

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012623\  
 Data File : BM038586.D  
 Acq On : 27 Jan 2023 15:02  
 Operator : CG/JU  
 Sample : 01227-09MS  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EX9G4MS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 01/30/2023  
 Supervised By :mohammad ahmed 01/30/2023

Quant Time: Jan 27 22:00:05 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM012623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 27 00:18:15 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.962  | 152  | 1502     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.774 | 136  | 4415     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.597 | 164  | 2719     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.337 | 188  | 5624     | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.512 | 240  | 5648     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.924 | 264  | 6205     | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.343  | 96   | 290      | 0.147 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.357 | 152  | 1806     | 0.264 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.362 | 212  | 4856     | 0.301 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.376  | 88   | 1201     | 0.600 | ng/ul# | 24       |
| 5) Naphthalene              | 10.823 | 128  | 3210     | 0.224 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.429 | 142  | 2089     | 0.276 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.649 | 142  | 2244     | 0.287 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.319 | 152  | 3596     | 0.300 | ng/ul  | 94       |
| 11) Acenaphthene            | 14.657 | 153  | 2550     | 0.279 | ng/ul  | 99       |
| 12) Fluorene                | 15.642 | 166  | 2985     | 0.262 | ng/ul# | 97       |
| 14) Pentachlorophenol       | 16.991 | 266  | 1420     | 0.620 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.379 | 178  | 4936     | 0.272 | ng/ul# | 92       |
| 16) Anthracene              | 17.472 | 178  | 5747m    | 0.371 | ng/ul  |          |
| 19) Fluoranthene            | 19.389 | 202  | 6578     | 0.327 | ng/ul# | 93       |
| 20) Pyrene                  | 19.752 | 202  | 6721     | 0.310 | ng/ul# | 95       |
| 21) Benzo(a)anthracene      | 21.498 | 228  | 6337     | 0.316 | ng/ul# | 93       |
| 22) Chrysene                | 21.550 | 228  | 6220     | 0.309 | ng/ul# | 92       |
| 24) Benzo(b)fluoranthene    | 23.184 | 252  | 6897     | 0.295 | ng/ul  | 88       |
| 25) Benzo(k)fluoranthene    | 23.234 | 252  | 6789     | 0.299 | ng/ul# | 89       |
| 26) Benzo(a)pyrene          | 23.816 | 252  | 5978     | 0.285 | ng/ul# | 87       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.431 | 276  | 8478     | 0.287 | ng/ul# | 98       |
| 28) Dibenzo(a,h)anthracene  | 26.444 | 278  | 6828     | 0.291 | ng/ul# | 92       |
| 29) Benzo(g,h,i)perylene    | 27.206 | 276  | 7234     | 0.282 | ng/ul  | 97       |

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

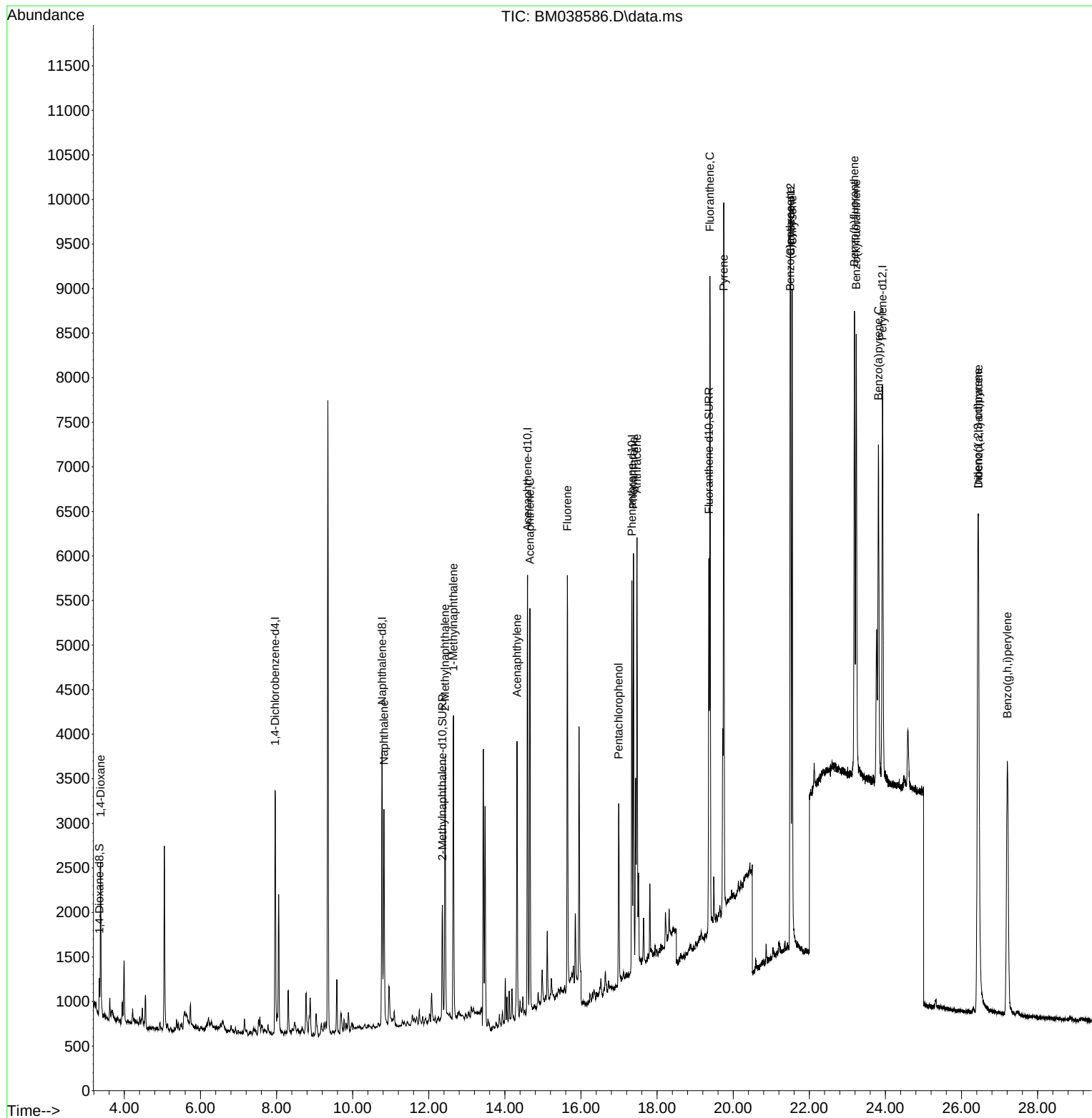
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012623\  
 Data File : BM038586.D  
 Acq On : 27 Jan 2023 15:02  
 Operator : CG/JU  
 Sample : 01227-09MS  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

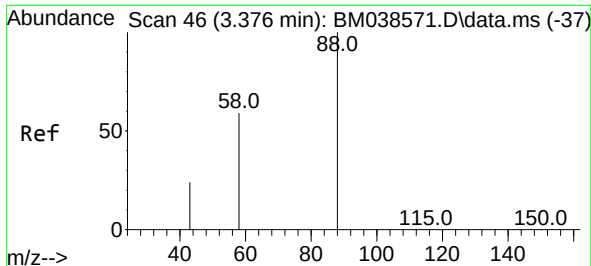
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EX9G4MS

Quant Time: Jan 27 22:00:05 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM012623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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### Manual Integrations APPROVED

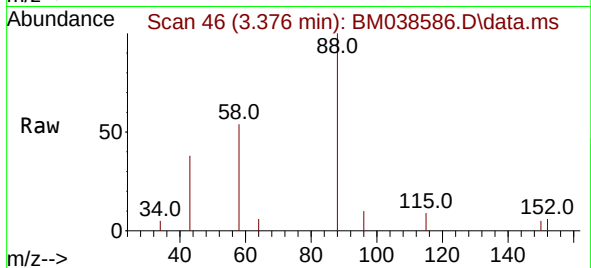
Reviewed By :Jagrut Upadhyay 01/30/2023  
 Supervised By :mohammad ahmed 01/30/2023





#2  
1,4-Dioxane  
Concen: 0.600 ng/ul  
RT: 3.376 min Scan# 46  
Delta R.T. -0.004 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

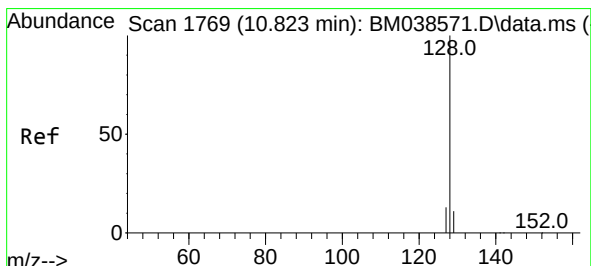
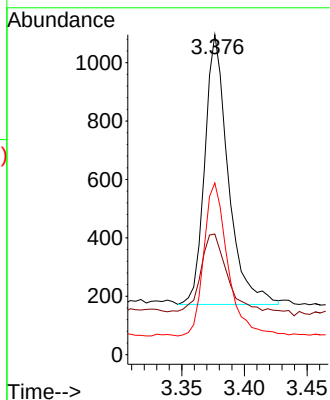
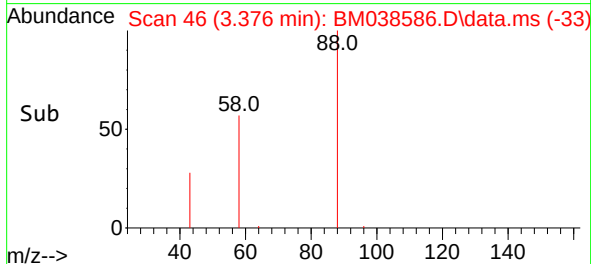
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



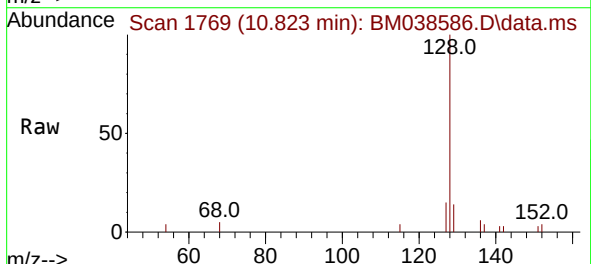
Tgt Ion: 88 Resp: 120  
Ion Ratio Lower Upper  
88 100  
43 37.7 141.3 211.9  
58 53.6 45.7 68.5

Manual Integrations  
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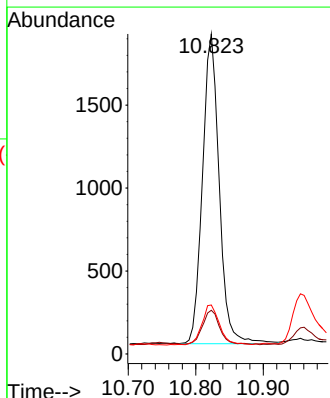
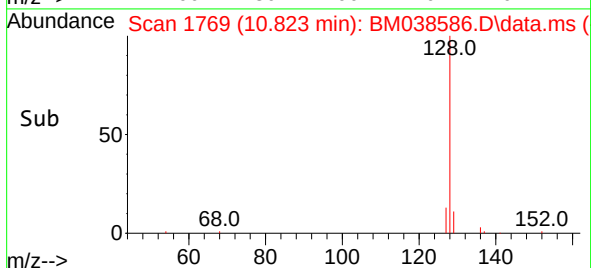
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

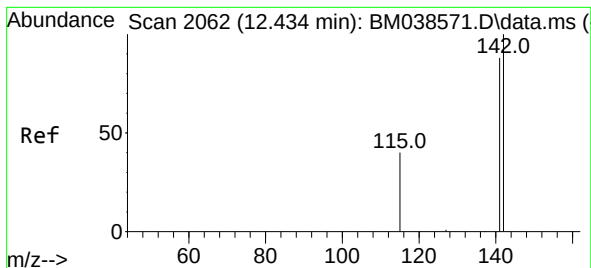


#5  
Naphthalene  
Concen: 0.224 ng/ul  
RT: 10.823 min Scan# 1769  
Delta R.T. -0.006 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02



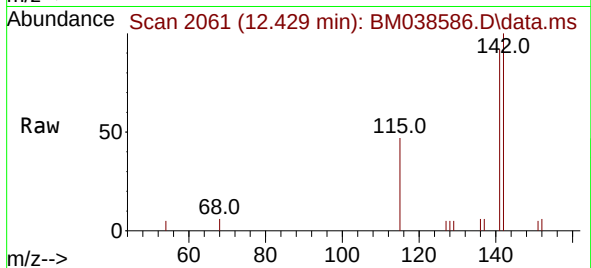
Tgt Ion:128 Resp: 3210  
Ion Ratio Lower Upper  
128 100  
129 13.6 10.3 15.5  
127 15.3 11.9 17.9





#7  
2-Methylnaphthalene  
Concen: 0.276 ng/ul  
RT: 12.429 min Scan# 2061  
Delta R.T. -0.006 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

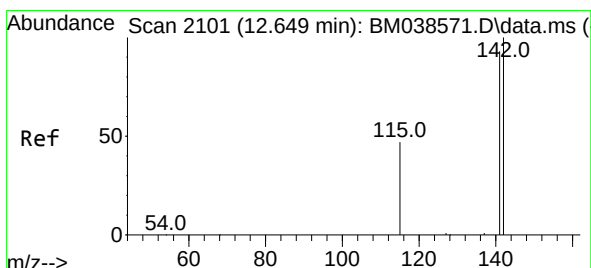
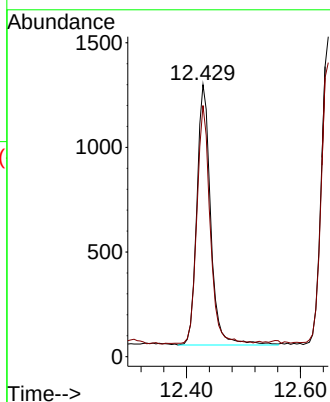
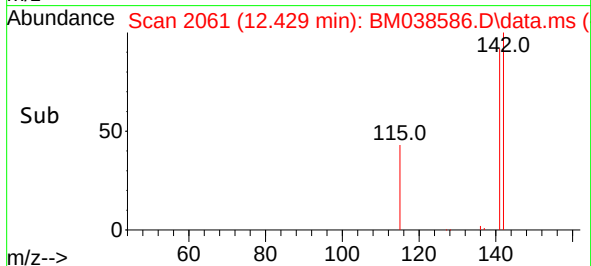
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



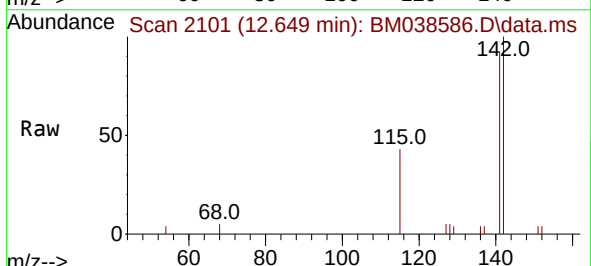
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Ion Ratio Lower Upper  
142 100  
141 89.0 73.7 110.5

Manual Integrations  
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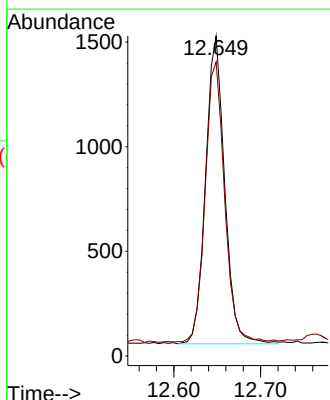
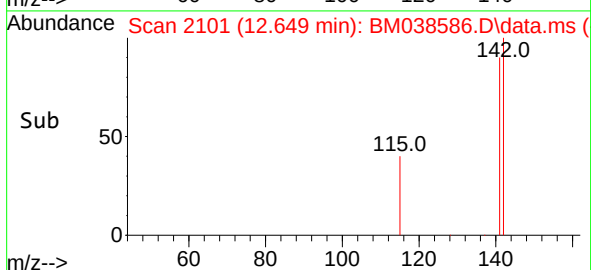
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

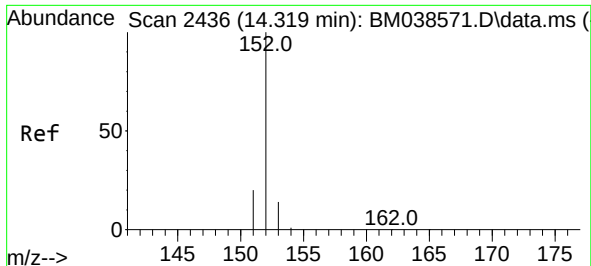


#8  
1-Methylnaphthalene  
Concen: 0.287 ng/ul  
RT: 12.649 min Scan# 2101  
Delta R.T. -0.006 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02



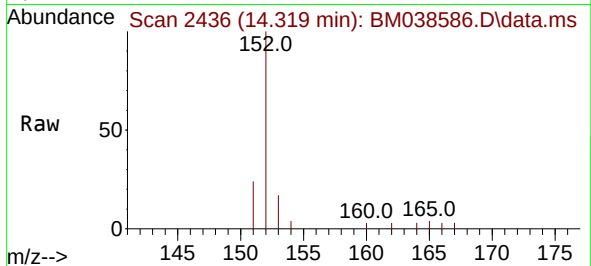
Tgt Ion:142 Resp: 2244  
Ion Ratio Lower Upper  
142 100  
141 92.1 74.0 111.0





#10  
Acenaphthylene  
Concen: 0.300 ng/u1  
RT: 14.319 min Scan# 2436  
Delta R.T. -0.005 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

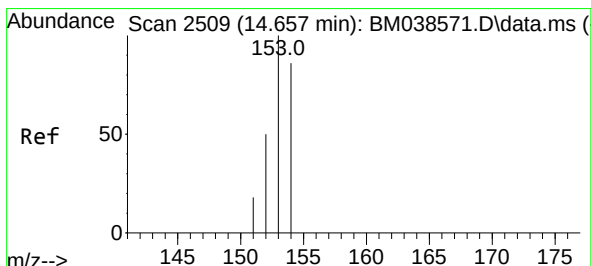
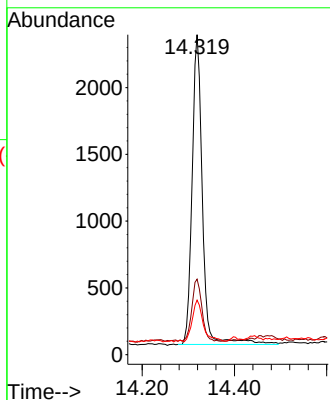
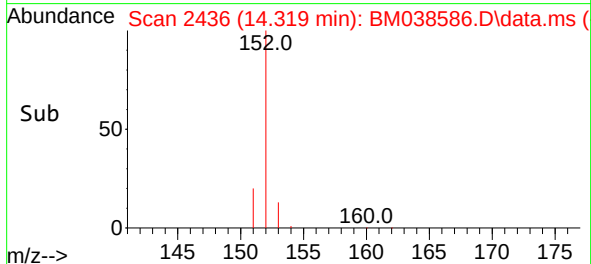
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:152 Resp: 3590  
Ion Ratio Lower Upper  
152 100  
151 23.6 16.3 24.5  
153 17.0 11.8 17.6

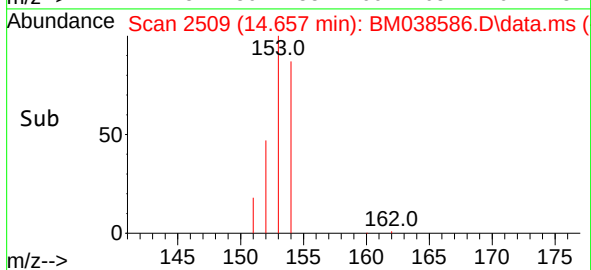
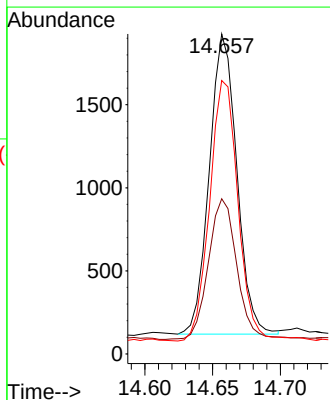
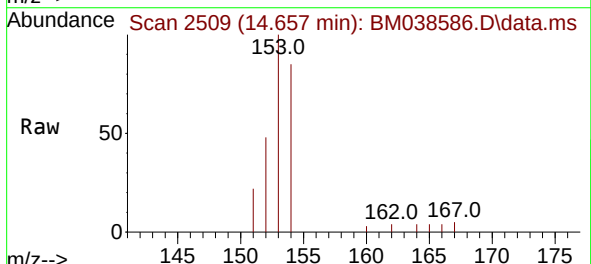
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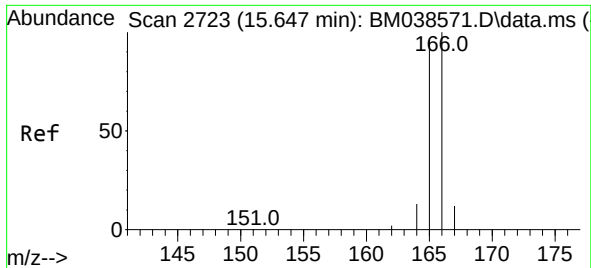
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#11  
Acenaphthene  
Concen: 0.279 ng/u1  
RT: 14.657 min Scan# 2509  
Delta R.T. -0.005 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

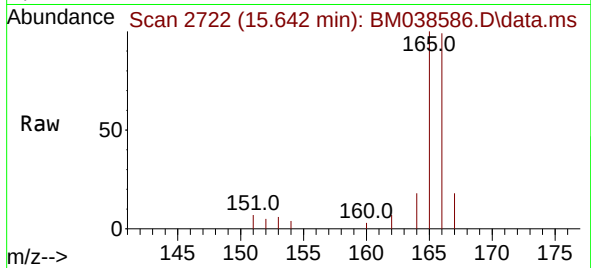
Tgt Ion:153 Resp: 2550  
Ion Ratio Lower Upper  
153 100  
152 48.5 40.1 60.1  
154 85.5 68.4 102.6





#12  
Fluorene  
Concen: 0.262 ng/ul  
RT: 15.642 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

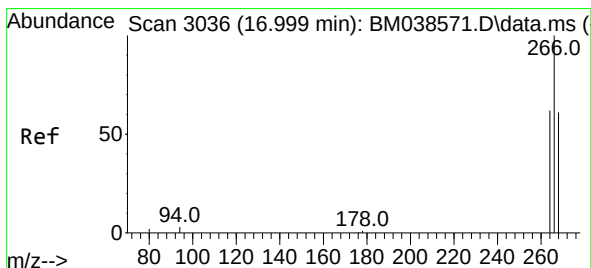
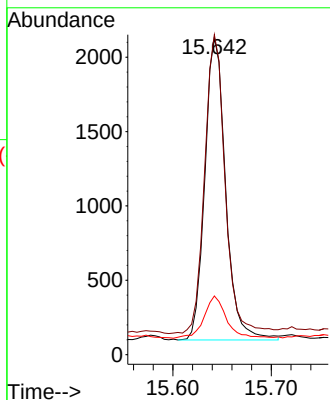
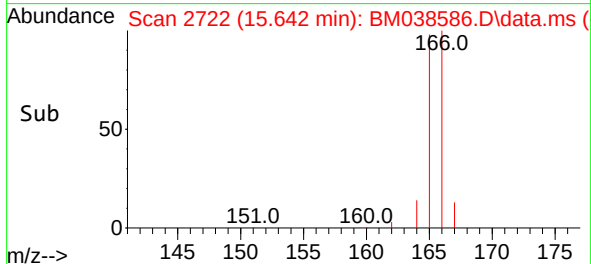
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



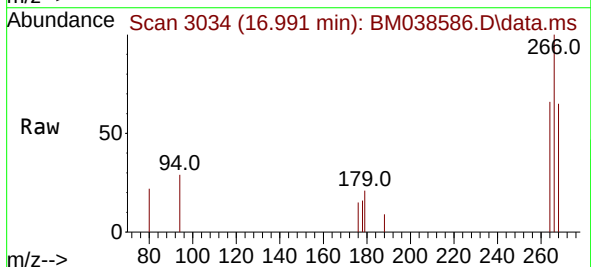
Tgt Ion:166 Resp: 298  
Ion Ratio Lower Upper  
166 100  
165 100.7 79.3 118.9  
167 18.5 11.9 17.9

Manual Integrations  
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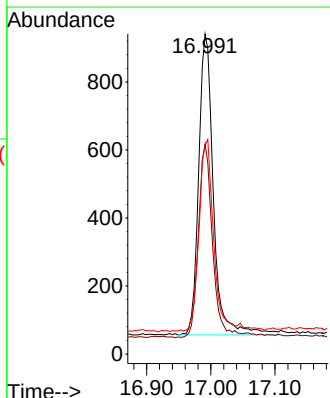
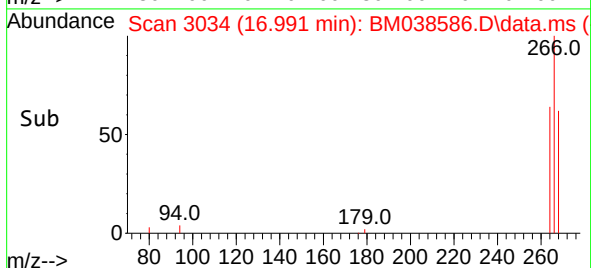
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

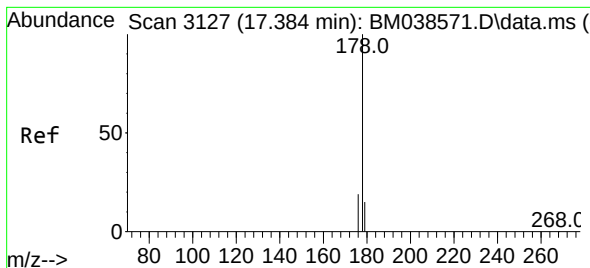


#14  
Pentachlorophenol  
Concen: 0.620 ng/ul  
RT: 16.991 min Scan# 3034  
Delta R.T. -0.009 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02



Tgt Ion:266 Resp: 1420  
Ion Ratio Lower Upper  
266 100  
264 63.7 49.4 74.2  
268 64.7 51.7 77.5





#15

Phenanthrene

Concen: 0.272 ng/u1

RT: 17.379 min Scan# 3127

Delta R.T. -0.004 min

Lab File: BM038586.D

Acq: 27 Jan 2023 15:02

Instrument :

BNA\_M

ClientSampleId :

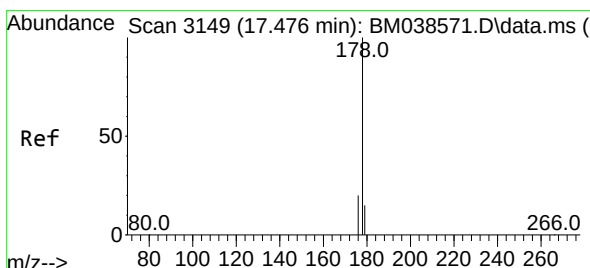
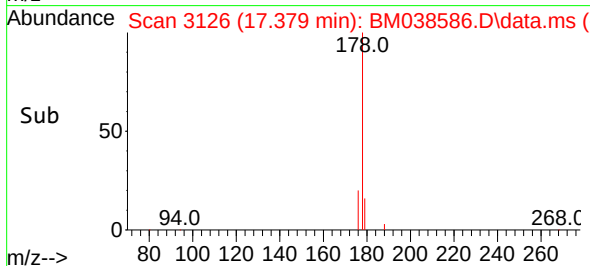
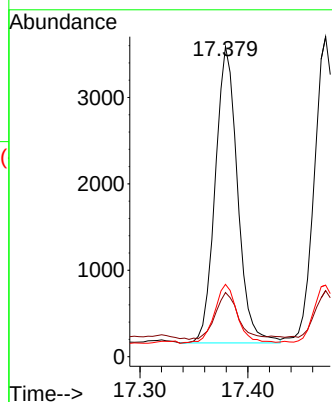
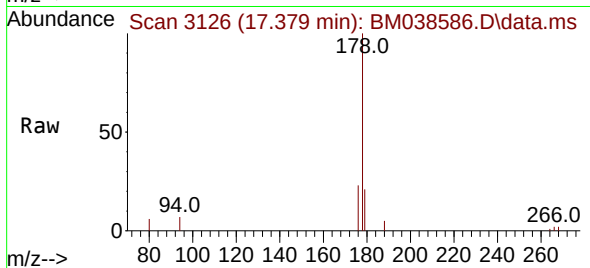
EX9G4MS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 4930 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 20.7  | 13.0  | 19.4 |
| 176       | 23.3  | 16.4  | 24.6 |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#16

Anthracene

Concen: 0.371 ng/u1 m

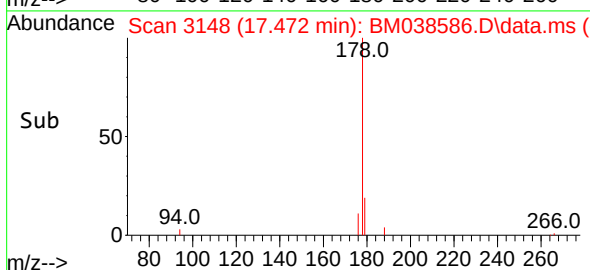
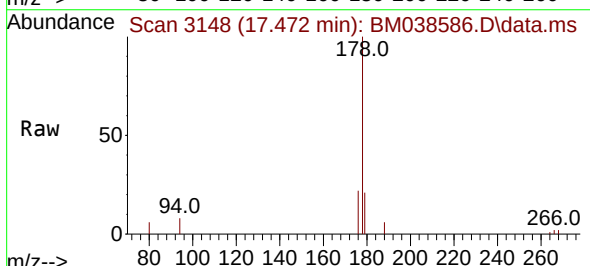
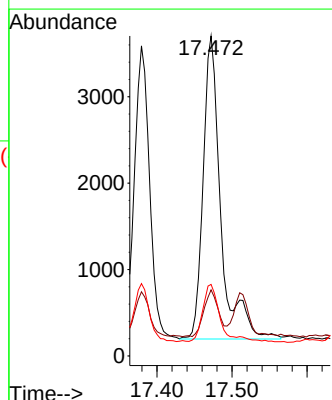
RT: 17.472 min Scan# 3148

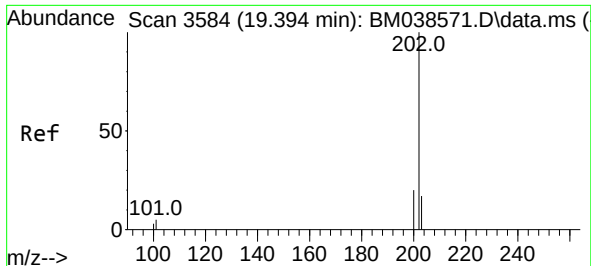
Delta R.T. -0.004 min

Lab File: BM038586.D

Acq: 27 Jan 2023 15:02

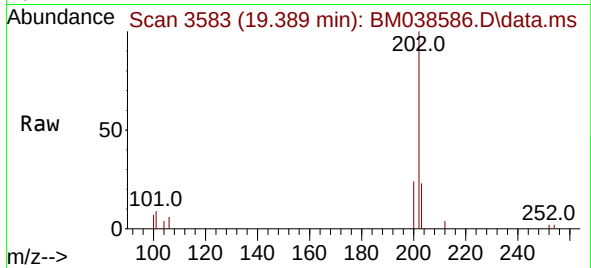
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 5747 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 20.6  | 13.2  | 19.8 |
| 176       | 22.3  | 16.2  | 24.4 |





#19  
Fluoranthene  
Concen: 0.327 ng/u1  
RT: 19.389 min Scan# 3583  
Delta R.T. -0.005 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

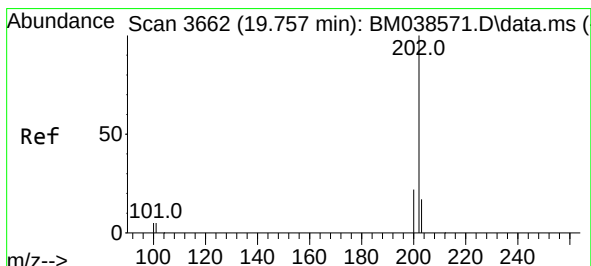
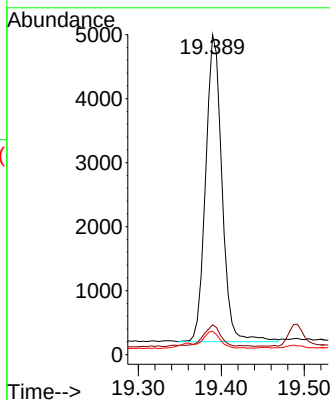
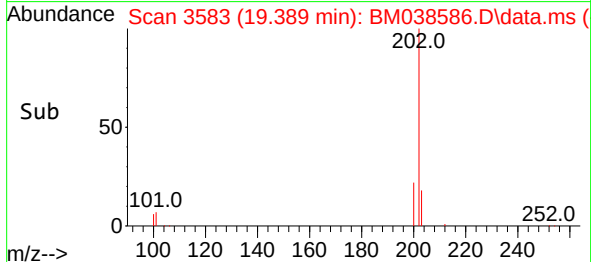
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



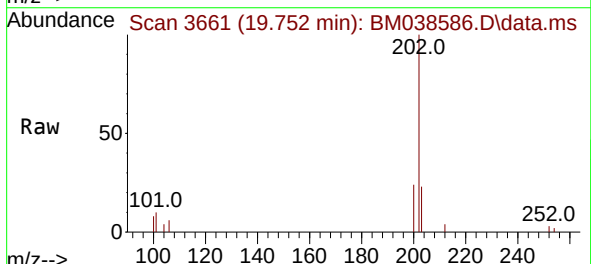
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Ion Ratio Lower Upper  
202 100  
101 9.3 5.3 7.9#  
100 7.2 4.2 6.2#

Manual Integrations  
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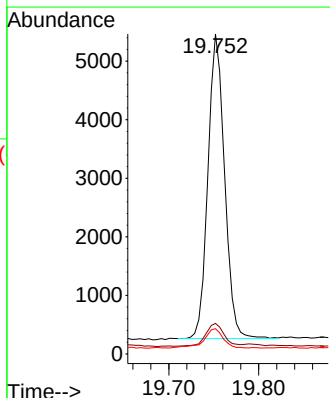
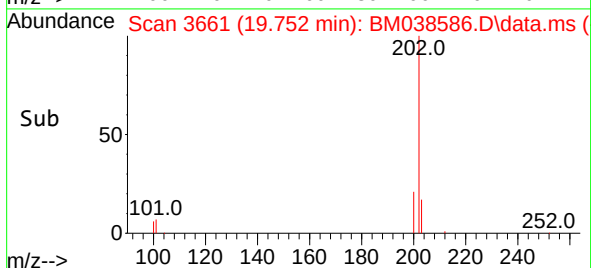
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



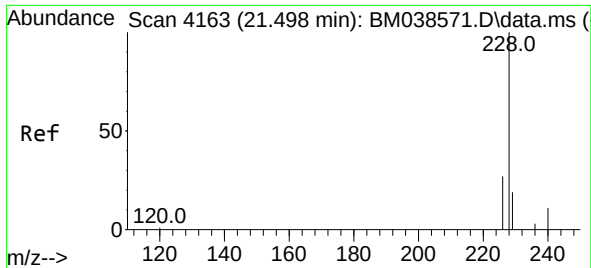
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Pyrene  
Concen: 0.310 ng/u1  
RT: 19.752 min Scan# 3661  
Delta R.T. -0.005 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02



Tgt Ion:202 Resp: 6721  
Ion Ratio Lower Upper  
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100 7.9 5.2 7.8#

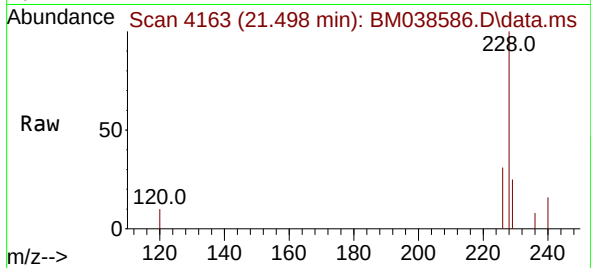






#21  
Benzo(a)anthracene  
Concen: 0.316 ng/u1  
RT: 21.498 min Scan# 4163  
Delta R.T. -0.003 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

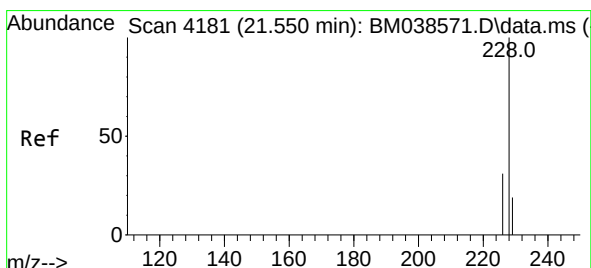
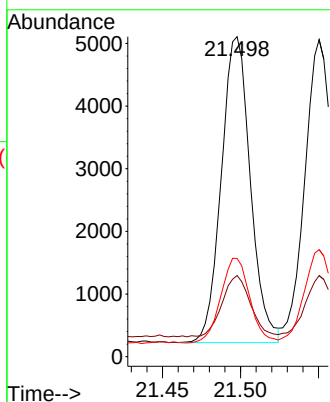
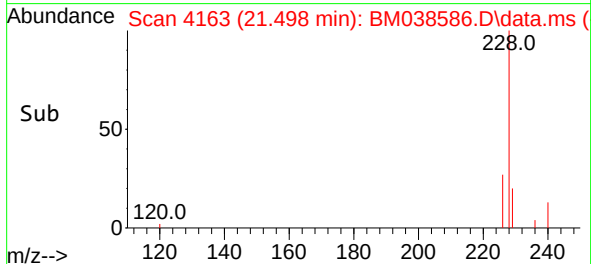
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:228 Resp: 633  
Ion Ratio Lower Upper  
228 100  
229 25.4 16.7 25.1  
226 30.7 22.2 33.4

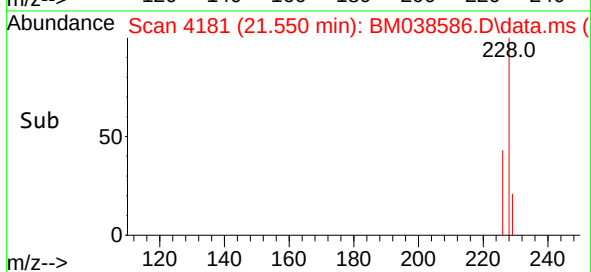
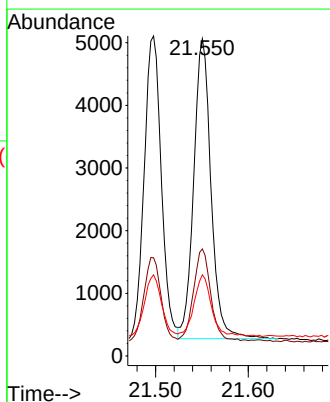
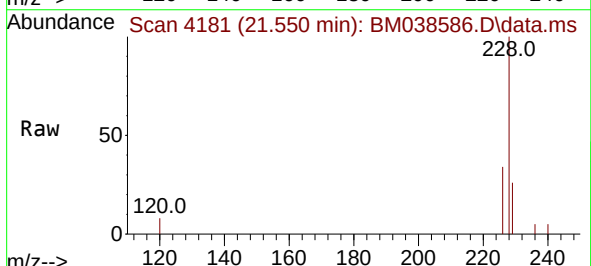
Manual Integrations  
APPROVED

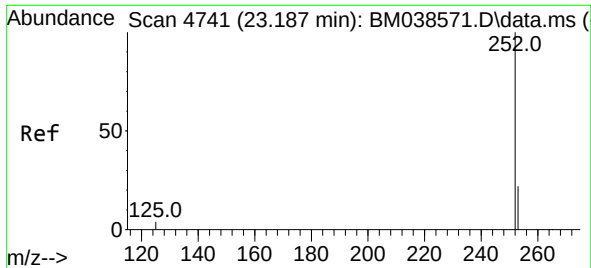
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#22  
Chrysene  
Concen: 0.309 ng/u1  
RT: 21.550 min Scan# 4181  
Delta R.T. -0.003 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

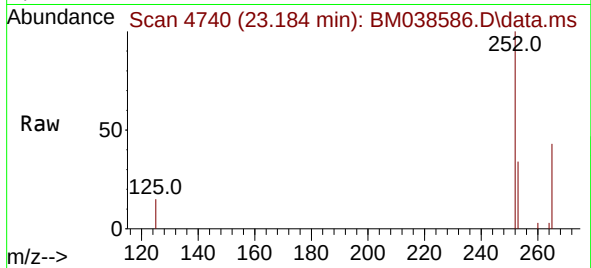
Tgt Ion:228 Resp: 6220  
Ion Ratio Lower Upper  
228 100  
226 33.8 24.6 36.8  
229 25.6 16.2 24.4





#24  
Benzo(b)fluoranthene  
Concen: 0.295 ng/ul  
RT: 23.184 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

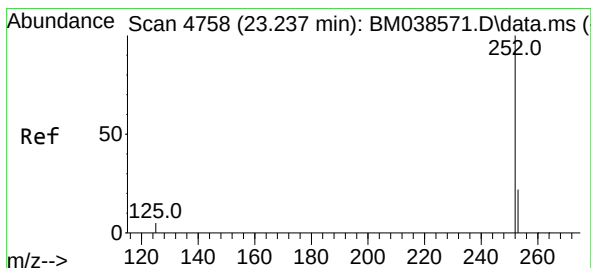
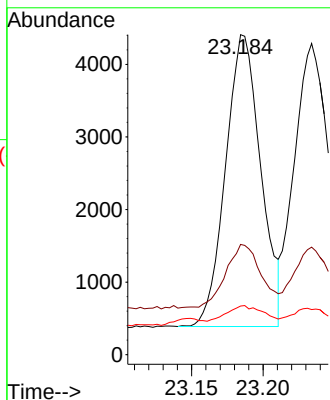
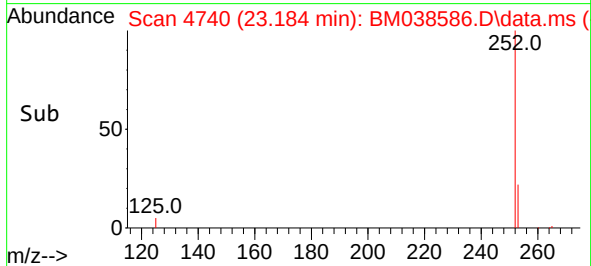
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:252 Resp: 689  
Ion Ratio Lower Upper  
252 100  
253 34.5 0.0 56.6  
125 15.2 0.0 21.4

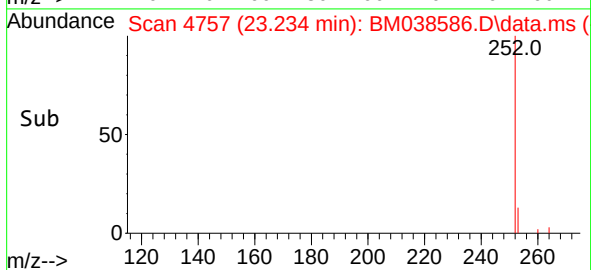
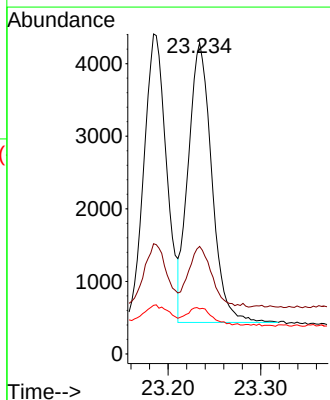
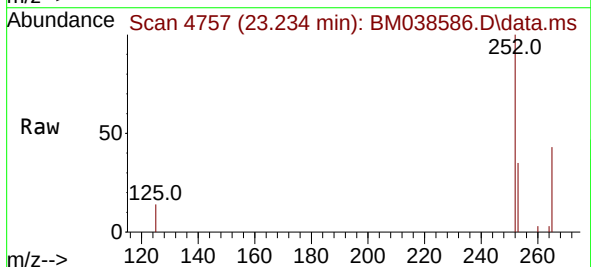
Manual Integrations  
APPROVED

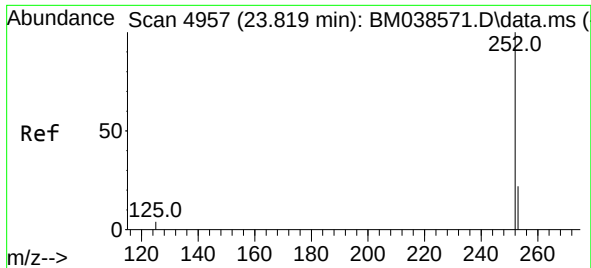
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.299 ng/ul  
RT: 23.234 min Scan# 4757  
Delta R.T. -0.006 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

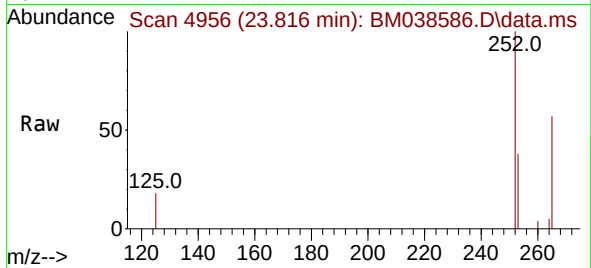
Tgt Ion:252 Resp: 6789  
Ion Ratio Lower Upper  
252 100  
253 34.5 23.1 34.7  
125 14.5 8.4 12.6#





#26  
Benzo(a)pyrene  
Concen: 0.285 ng/ul  
RT: 23.816 min Scan# 4956  
Delta R.T. -0.006 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

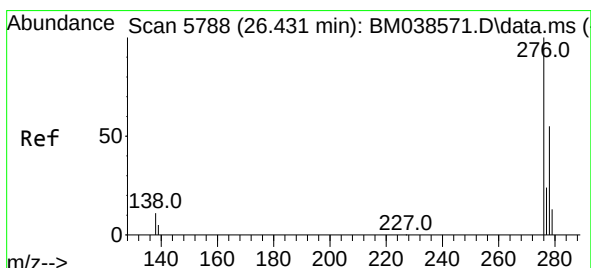
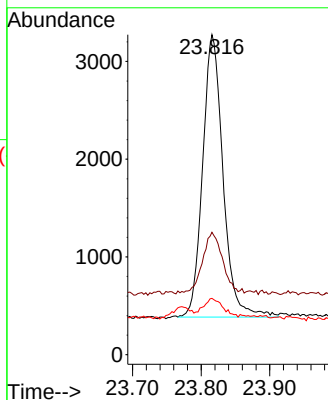
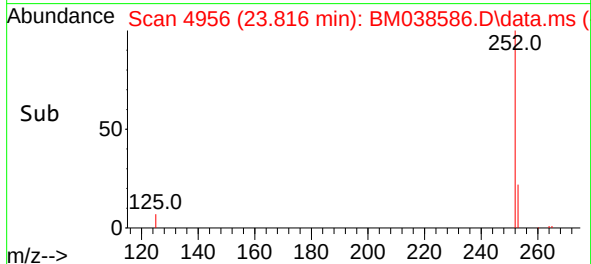
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



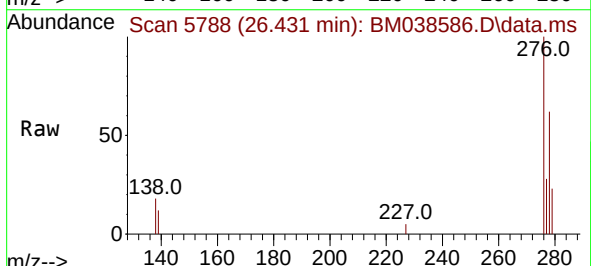
Tgt Ion:252 Resp: 5978  
Ion Ratio Lower Upper  
252 100  
253 38.3 25.1 37.7  
125 17.6 10.0 15.0

Manual Integrations  
APPROVED

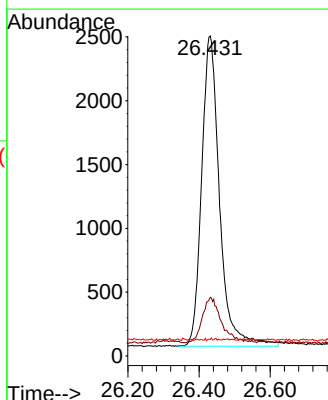
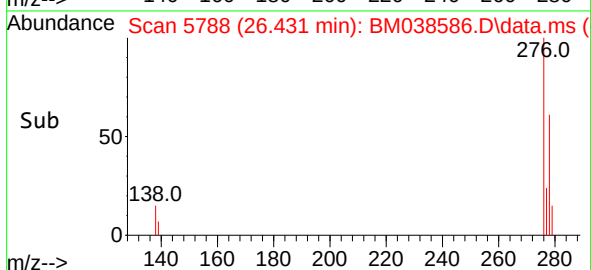
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

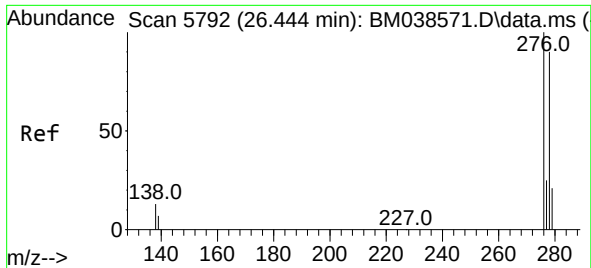


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.287 ng/ul  
RT: 26.431 min Scan# 5788  
Delta R.T. -0.010 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02



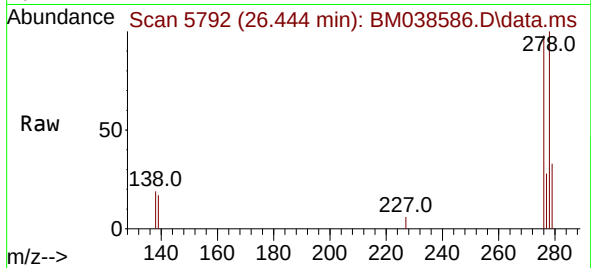
Tgt Ion:276 Resp: 8478  
Ion Ratio Lower Upper  
276 100  
138 15.6 11.7 17.5  
227 0.2 0.3 0.5





#28  
Dibenzo(a,h)anthracene  
Concen: 0.291 ng/ul  
RT: 26.444 min Scan# 5792  
Delta R.T. -0.014 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02

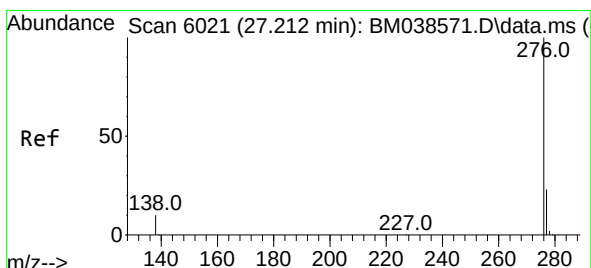
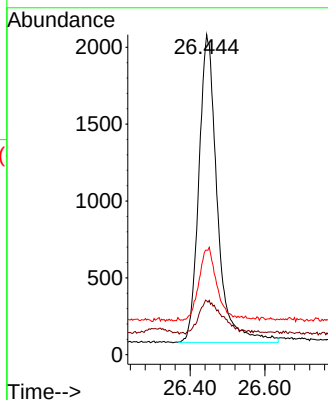
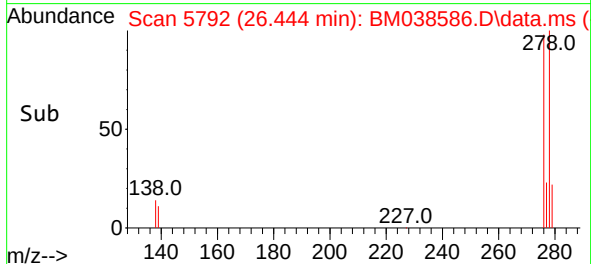
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



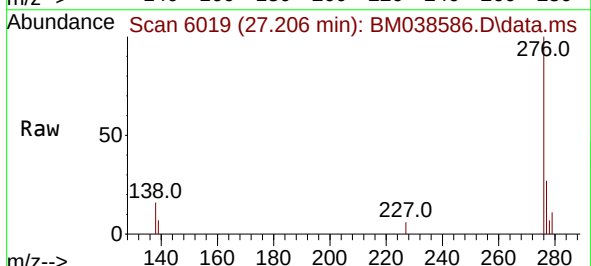
Tgt Ion: 278 Resp: 6828  
Ion Ratio Lower Upper  
278 100  
139 16.9 9.8 14.8  
279 32.7 23.3 34.9

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.282 ng/ul  
RT: 27.206 min Scan# 6019  
Delta R.T. -0.014 min  
Lab File: BM038586.D  
Acq: 27 Jan 2023 15:02



Tgt Ion: 276 Resp: 7234  
Ion Ratio Lower Upper  
276 100  
138 16.5 12.6 19.0  
277 27.4 20.5 30.7

