

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070324\  
 Data File : BN032478.D  
 Acq On : 04 Jul 2024 17:33  
 Operator : MA/JU  
 Sample : P2964-12  
 Misc :  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4CS6

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/05/2024  
 Supervised By :mohammad ahmed 07/05/2024

Quant Time: Jul 04 23:07:16 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 03 03:26:42 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.595  | 152  | 6922     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.371 | 136  | 19905    | 0.400  | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.244 | 164  | 11076    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.999 | 188  | 23052m   | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.208 | 240  | 17684m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.427 | 264  | 24080m   | 0.400  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.143  | 96   | 27105    | 3.523  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.971 | 152  | 6144     | 0.206  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.036 | 212  | 13469m   | 0.253  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.420 | 128  | 23892    | 0.454  | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.042 | 142  | 7694     | 0.220  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.268 | 142  | 5936     | 0.164  | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.966 | 152  | 49495    | 1.074  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.304 | 153  | 20277    | 0.567  | ng/ul  | 98       |
| 12) Fluorene                | 15.298 | 166  | 25011    | 0.587  | ng/ul  | 99       |
| 15) Phenanthrene            | 17.041 | 178  | 528782m  | 8.367  | ng/ul  |          |
| 16) Anthracene              | 17.134 | 178  | 107961m  | 1.915  | ng/ul  |          |
| 19) Fluoranthene            | 19.068 | 202  | 1190031m | 17.672 | ng/ul  |          |
| 20) Pyrene                  | 19.436 | 202  | 872613m  | 12.400 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.191 | 228  | 574530m  | 9.001  | ng/ul  |          |
| 22) Chrysene                | 21.243 | 228  | 668373m  | 9.541  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.763 | 252  | 962003m  | 9.195  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.801 | 252  | 347779m  | 3.421  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.327 | 252  | 370784m  | 5.094  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.659 | 276  | 373342m  | 3.276  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.663 | 278  | 128519m  | 1.518  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 26.350 | 276  | 58304m   | 0.642  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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

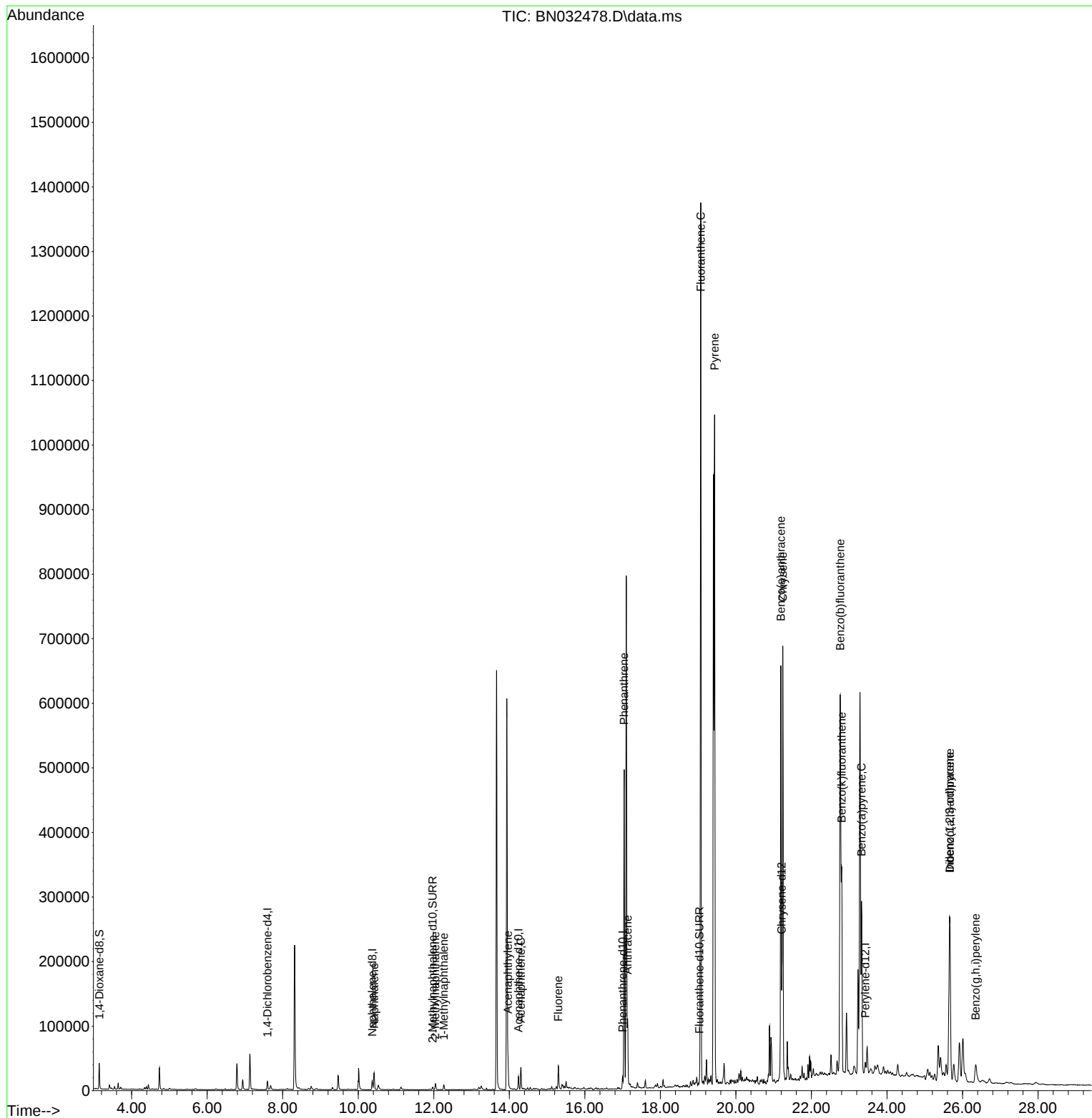
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070324\  
Data File : BN032478.D  
Acq On : 04 Jul 2024 17:33  
Operator : MA/JU  
Sample : P2964-12  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

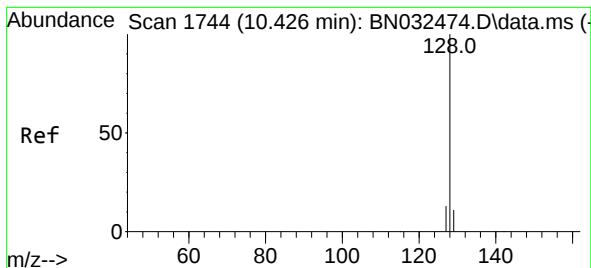
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6

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Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024

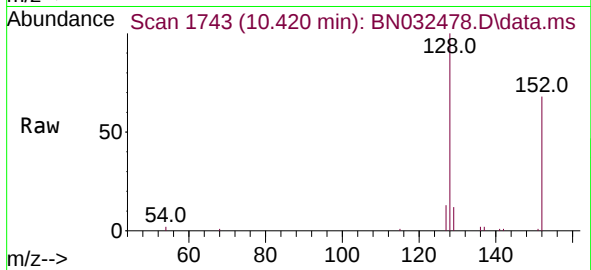
Quant Time: Jul 04 23:07:16 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.454 ng/ul  
RT: 10.420 min Scan# 1743  
Delta R.T. -0.011 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

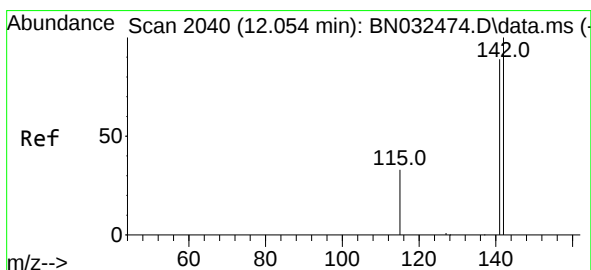
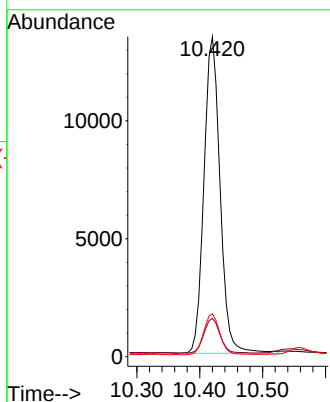
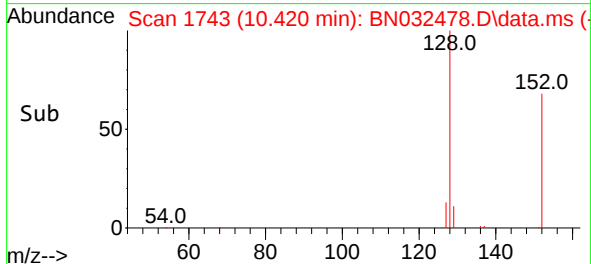
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6



Tgt Ion:128 Resp: 23892  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.2 13.8  
127 13.4 10.8 16.2

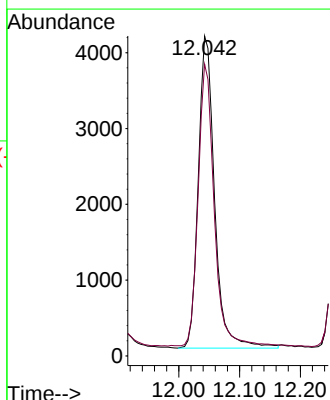
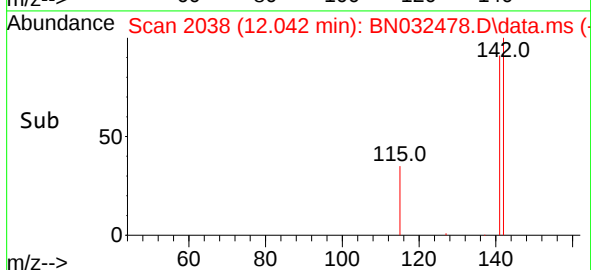
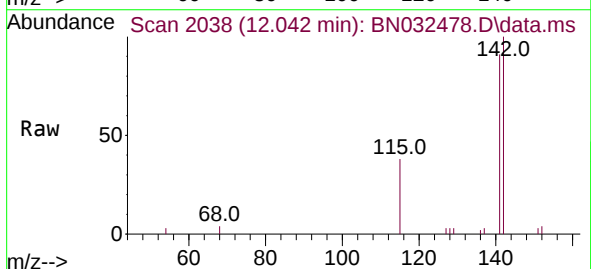
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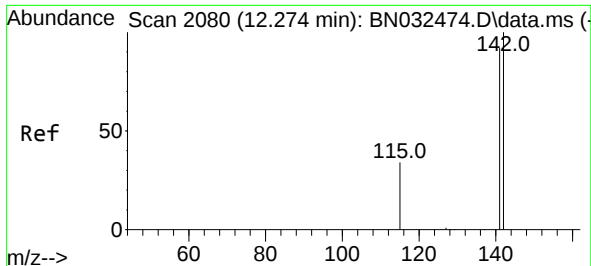
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#7  
2-Methylnaphthalene  
Concen: 0.220 ng/ul  
RT: 12.042 min Scan# 2038  
Delta R.T. -0.011 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

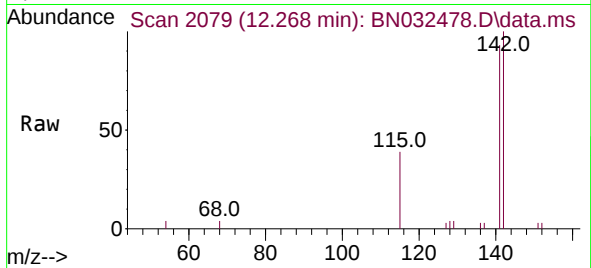
Tgt Ion:142 Resp: 7694  
Ion Ratio Lower Upper  
142 100  
141 87.9 72.2 108.2





#8  
1-Methylnaphthalene  
Concen: 0.164 ng/ul  
RT: 12.268 min Scan# 2080  
Delta R.T. -0.006 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

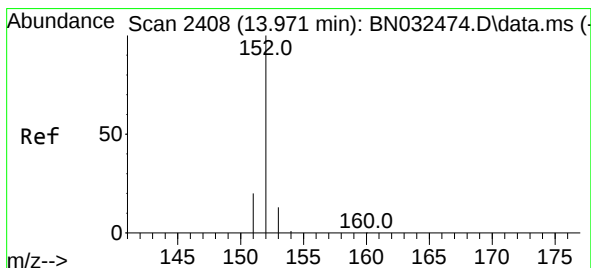
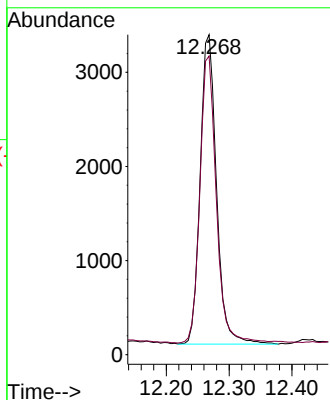
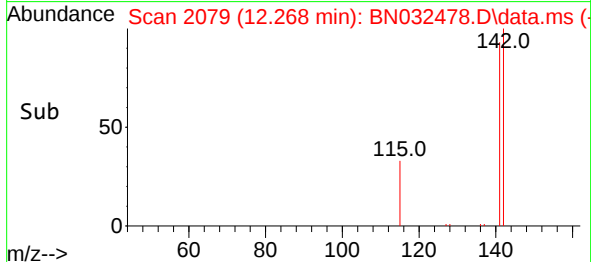
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6



Tgt Ion:142 Resp: 5936  
Ion Ratio Lower Upper  
142 100  
141 93.4 73.4 110.0

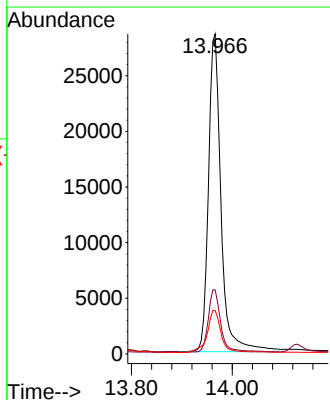
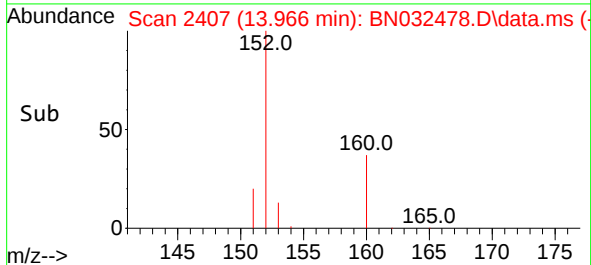
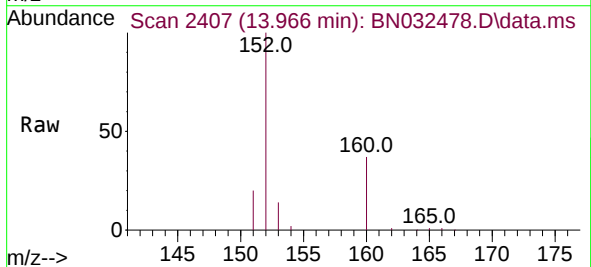
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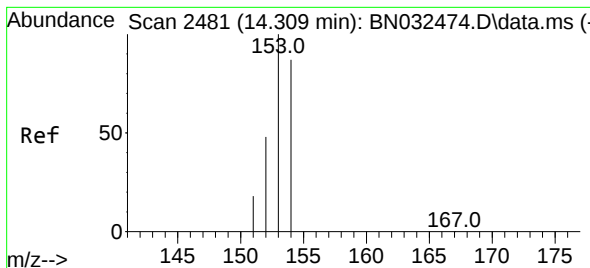
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#10  
Acenaphthylene  
Concen: 1.074 ng/ul  
RT: 13.966 min Scan# 2407  
Delta R.T. -0.005 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

Tgt Ion:152 Resp: 49495  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.7 23.5  
153 13.6 10.9 16.3





#11

Acenaphthene

Concen: 0.567 ng/ul

RT: 14.304 min Scan# 2480

Delta R.T. -0.009 min

Lab File: BN032478.D

Acq: 04 Jul 2024 17:33

Instrument :

BNA\_N

ClientSampleId :

A4CS6

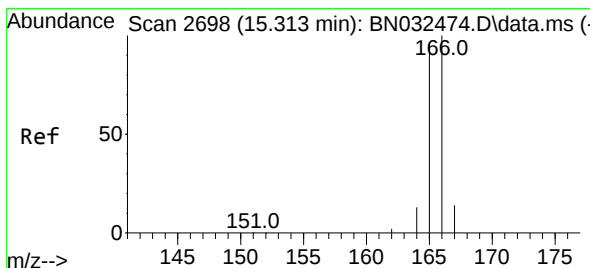
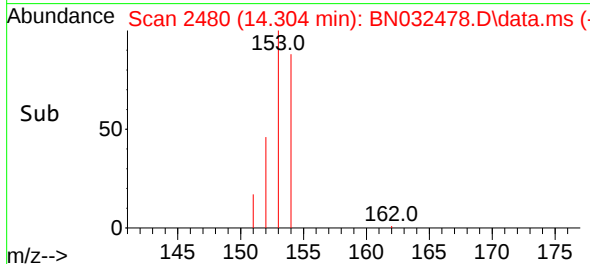
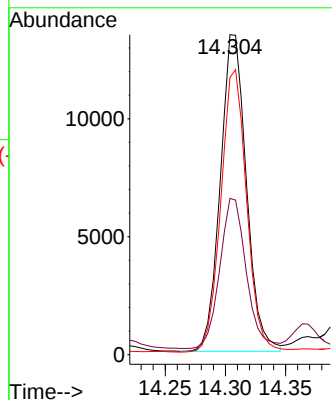
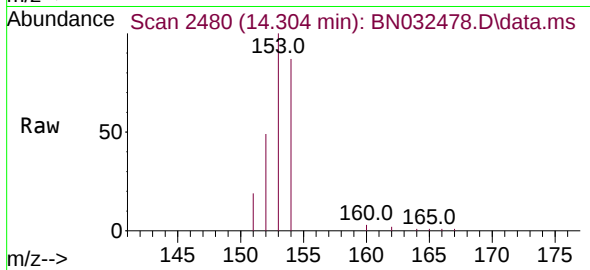
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2027  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.9  | 39.5  | 59.3  |
| 154       | 86.6  | 71.7  | 107.5 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/05/2024

Supervised By :mohammad ahmed 07/05/2024



#12

Fluorene

Concen: 0.587 ng/ul

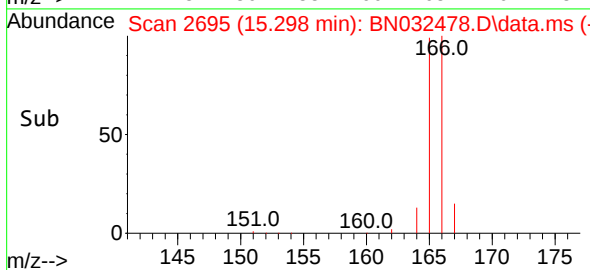
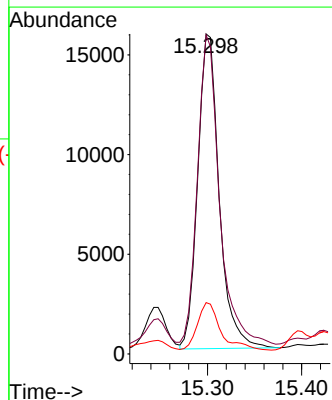
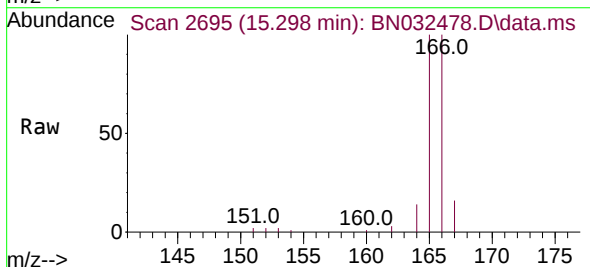
RT: 15.298 min Scan# 2695

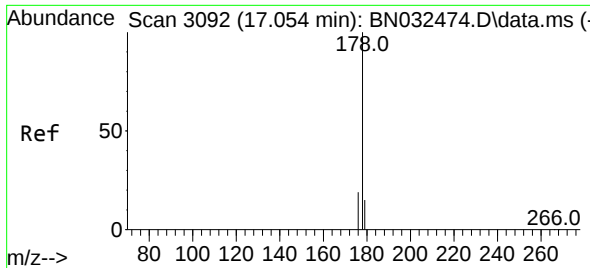
Delta R.T. -0.014 min

Lab File: BN032478.D

Acq: 04 Jul 2024 17:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 25011 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.7  | 79.0  | 118.6 |
| 167       | 16.0  | 11.0  | 16.6  |





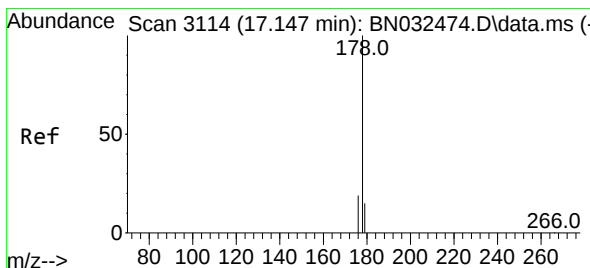
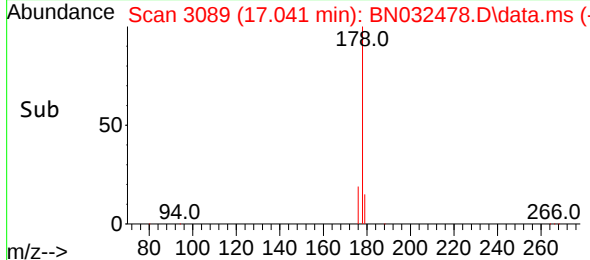
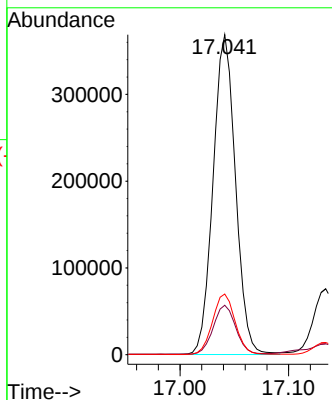
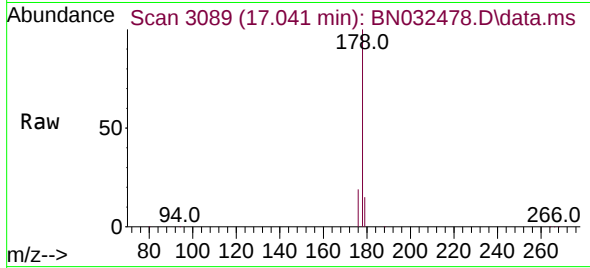
#15  
Phenanthrene  
Concen: 8.367 ng/ul m  
RT: 17.041 min Scan# 3092  
Delta R.T. -0.009 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6

Tgt Ion:178 Resp: 52878  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.6 18.8  
176 19.0 15.6 23.4

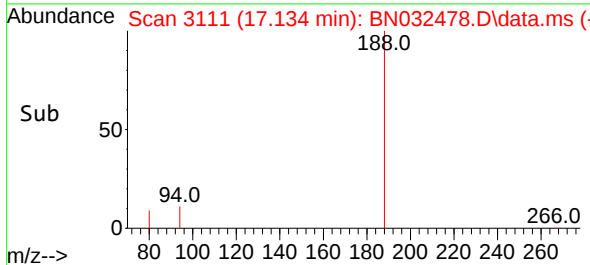
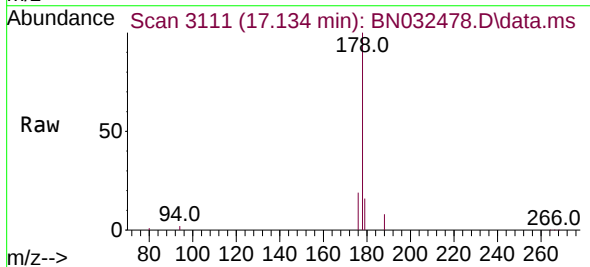
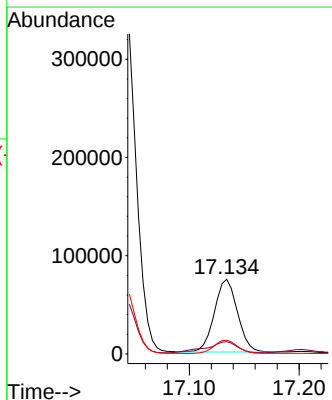
Manual Integrations  
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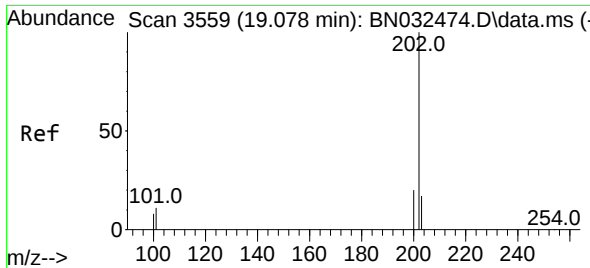
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#16  
Anthracene  
Concen: 1.915 ng/ul m  
RT: 17.134 min Scan# 3111  
Delta R.T. -0.009 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

Tgt Ion:178 Resp: 107961  
Ion Ratio Lower Upper  
178 100  
179 16.4 12.5 18.7  
176 18.5 15.0 22.6





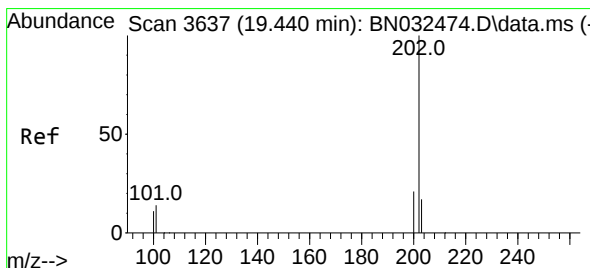
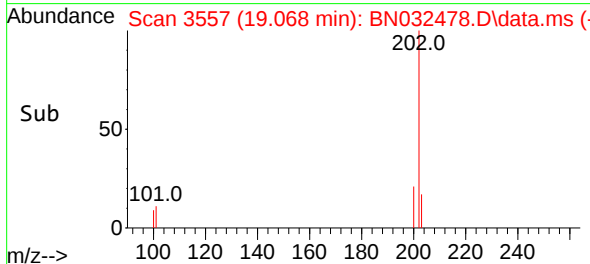
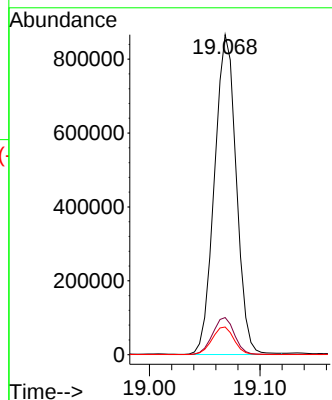
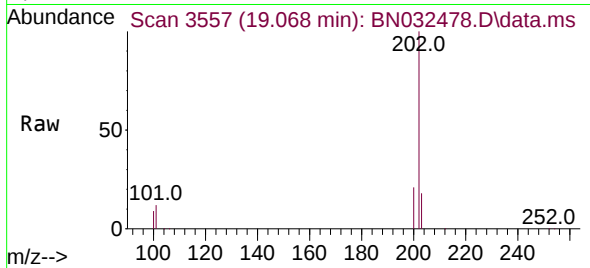
#19  
Fluoranthene  
Concen: 17.672 ng/ul m  
RT: 19.068 min Scan# 3559  
Delta R.T. -0.005 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6

Tgt Ion:202 Resp: 119003  
Ion Ratio Lower Upper  
202 100  
101 11.6 8.8 13.2  
100 8.6 6.4 9.6

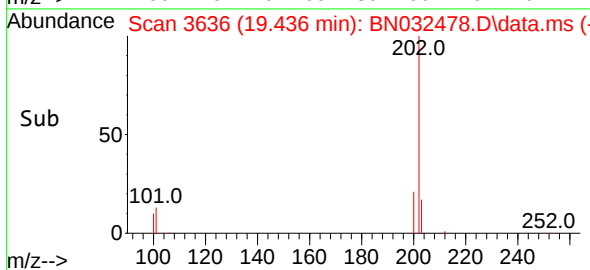
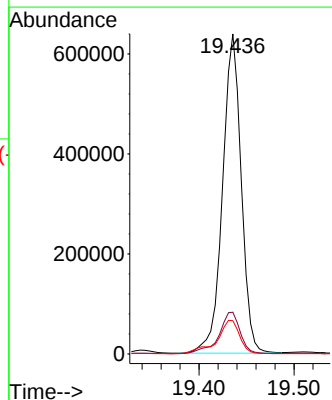
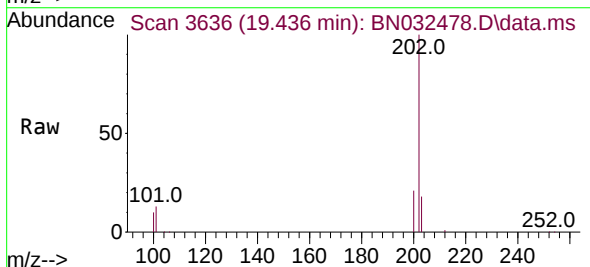
Manual Integrations  
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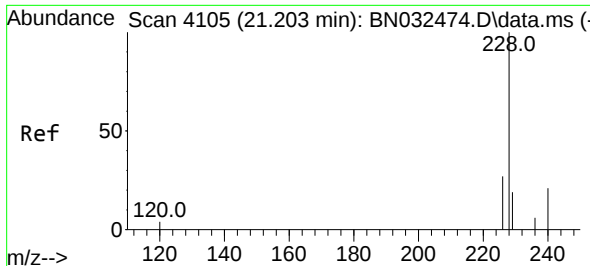
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#20  
Pyrene  
Concen: 12.400 ng/ul m  
RT: 19.436 min Scan# 3636  
Delta R.T. -0.005 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

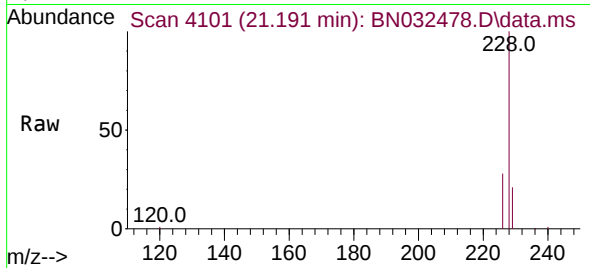
Tgt Ion:202 Resp: 872613  
Ion Ratio Lower Upper  
202 100  
101 13.0 11.0 16.4  
100 10.4 8.7 13.1





#21  
Benzo(a)anthracene  
Concen: 9.001 ng/ul m  
RT: 21.191 min Scan# 4110  
Delta R.T. -0.000 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

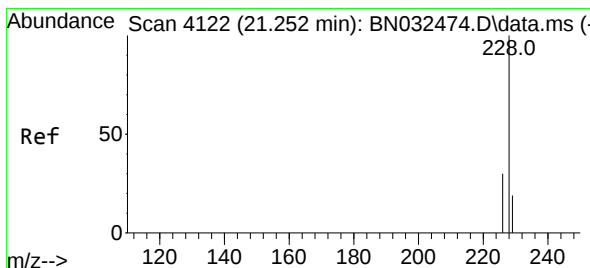
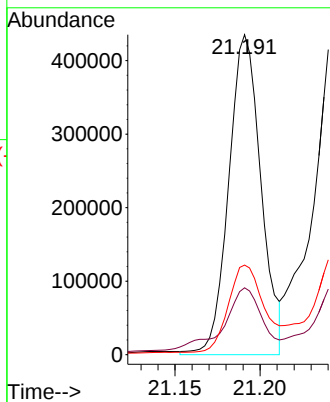
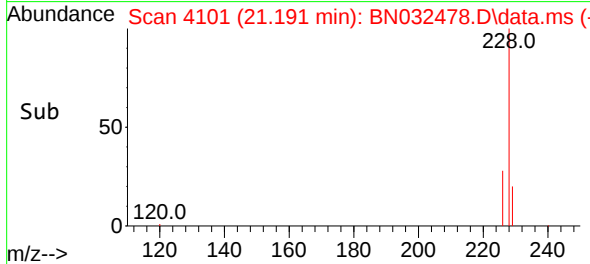
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6



Tgt Ion:228 Resp: 574530  
Ion Ratio Lower Upper  
228 100  
229 20.9 15.7 23.5  
226 28.0 21.8 32.8

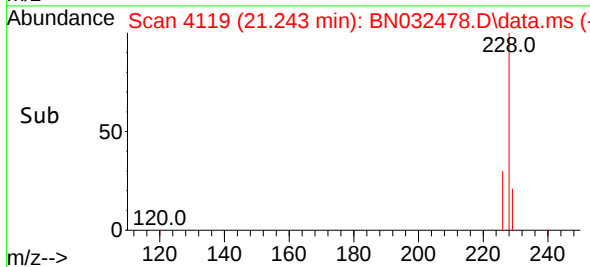
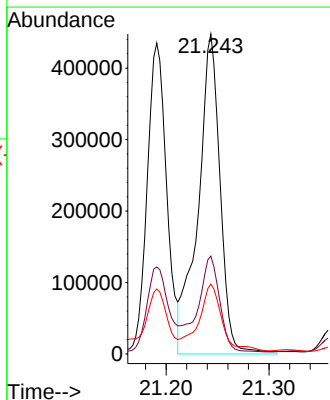
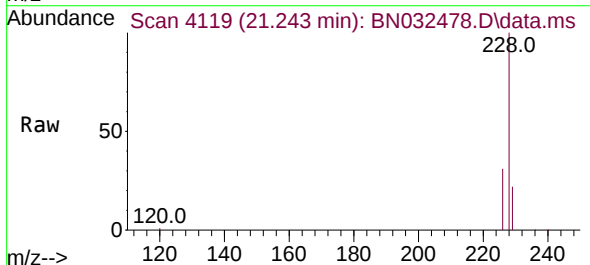
Manual Integrations  
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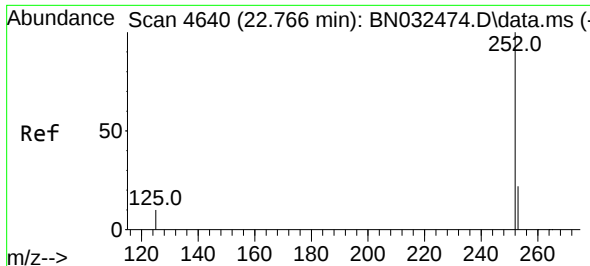
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#22  
Chrysene  
Concen: 9.541 ng/ul m  
RT: 21.243 min Scan# 4119  
Delta R.T. -0.000 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

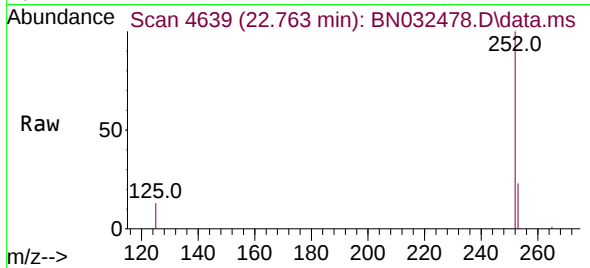
Tgt Ion:228 Resp: 668373  
Ion Ratio Lower Upper  
228 100  
226 30.6 23.6 35.4  
229 21.8 15.7 23.5





#24  
Benzo(b)fluoranthene  
Concen: 9.195 ng/ul m  
RT: 22.763 min Scan# 4639  
Delta R.T. 0.006 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

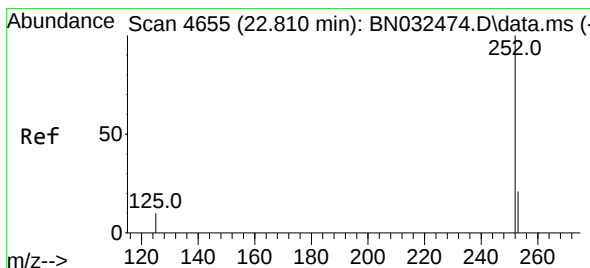
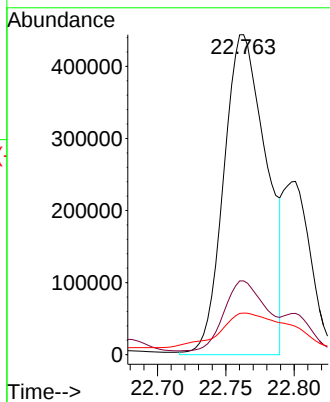
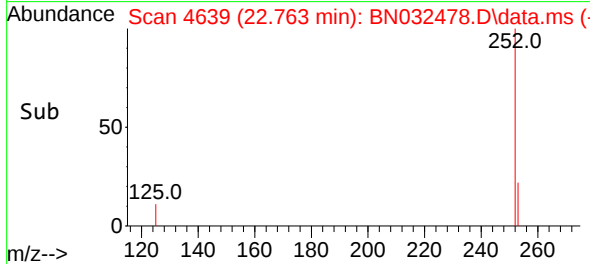
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6



Tgt Ion:252 Resp: 96200  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 50.2  
125 13.0 0.0 32.0

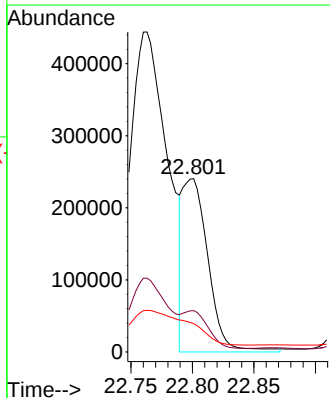
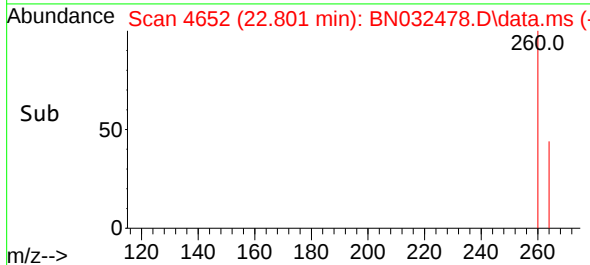
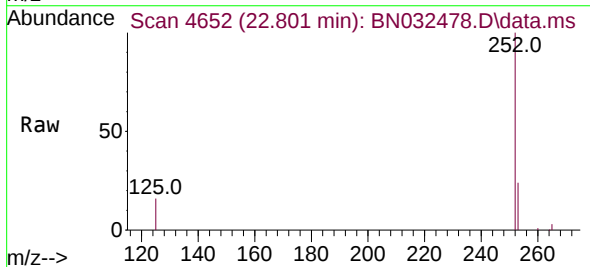
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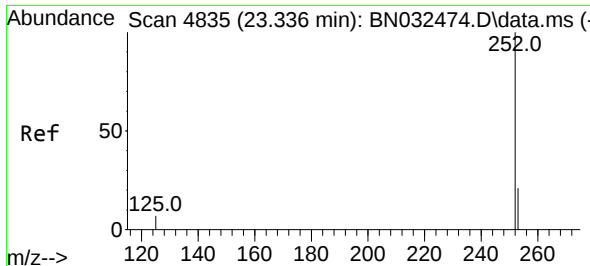
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#25  
Benzo(k)fluoranthene  
Concen: 3.421 ng/ul m  
RT: 22.801 min Scan# 4652  
Delta R.T. -0.000 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

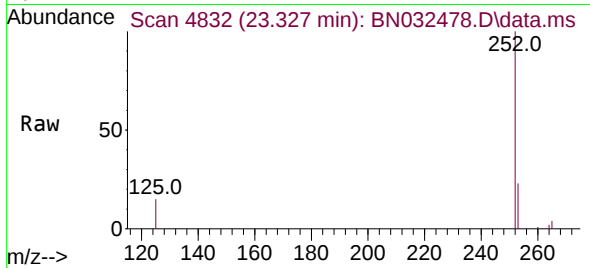
Tgt Ion:252 Resp: 347779  
Ion Ratio Lower Upper  
252 100  
253 23.9 20.3 30.5  
125 16.4 12.8 19.2





#26  
Benzo(a)pyrene  
Concen: 5.094 ng/ul m  
RT: 23.327 min Scan# 4835  
Delta R.T. -0.000 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

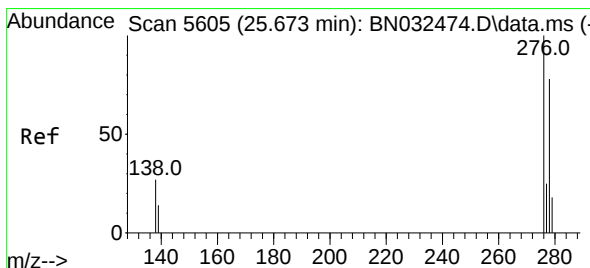
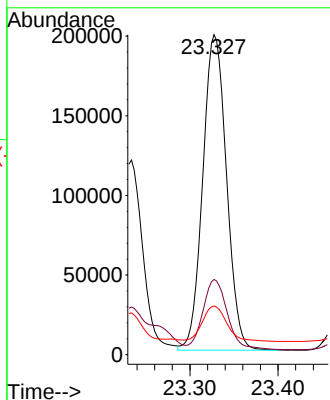
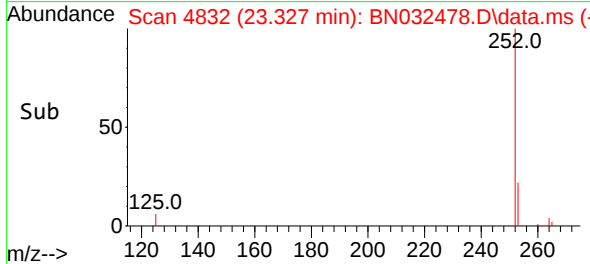
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6



Tgt Ion:252 Resp: 370784  
Ion Ratio Lower Upper  
252 100  
253 23.5 22.2 33.2  
125 15.2 16.4 24.6

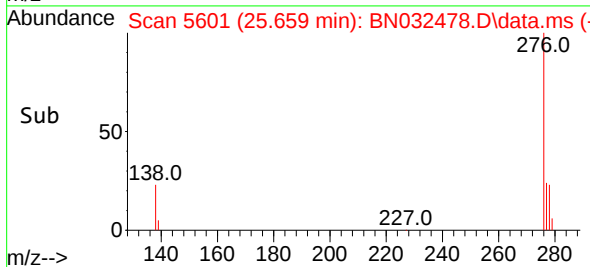
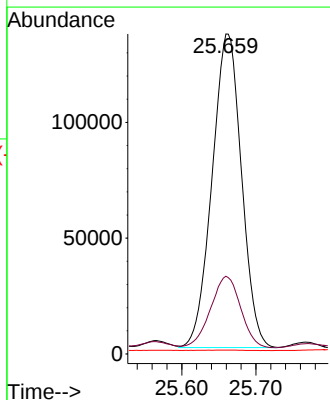
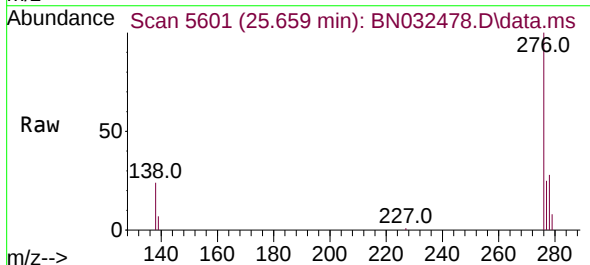
Manual Integrations  
APPROVED

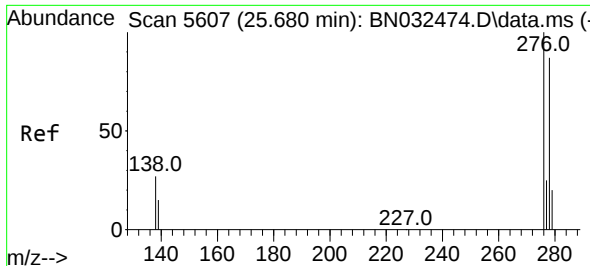
Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.276 ng/ul m  
RT: 25.659 min Scan# 5601  
Delta R.T. -0.000 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

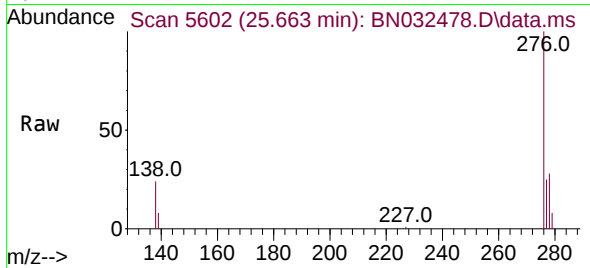
Tgt Ion:276 Resp: 373342  
Ion Ratio Lower Upper  
276 100  
138 3.6 21.3 31.9#  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 1.518 ng/ul m  
RT: 25.663 min Scan# 5602  
Delta R.T. -0.003 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33

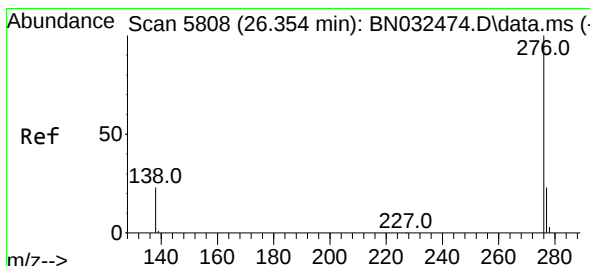
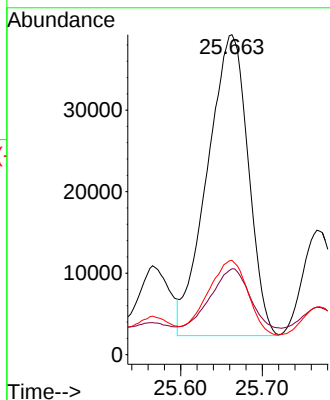
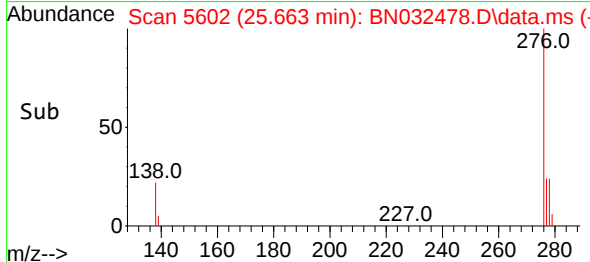
Instrument :  
BNA\_N  
ClientSampleId :  
A4CS6



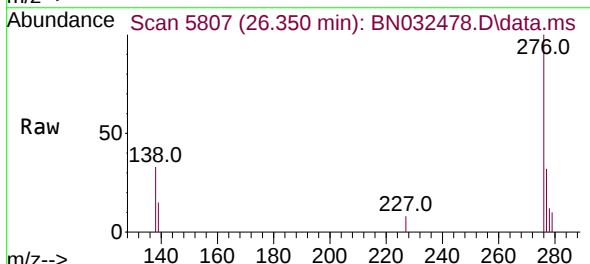
Tgt Ion:278 Resp: 128519  
Ion Ratio Lower Upper  
278 100  
139 26.8 15.9 23.9#  
279 29.5 21.1 31.7

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/05/2024  
Supervised By :mohammad ahmed 07/05/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.642 ng/ul m  
RT: 26.350 min Scan# 5807  
Delta R.T. 0.007 min  
Lab File: BN032478.D  
Acq: 04 Jul 2024 17:33



Tgt Ion:276 Resp: 58304  
Ion Ratio Lower Upper  
276 100  
138 32.5 19.8 29.6#  
277 31.6 19.8 29.6#

