

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071224\  
 Data File : BN032656.D  
 Acq On : 12 Jul 2024 03:59  
 Operator : MA/JU  
 Sample : P3035-21  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4CB9

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/12/2024  
 Supervised By :mohammad ahmed 07/16/2024

Quant Time: Jul 12 04:28:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 12 01:40:24 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.553  | 152  | 8094     | 0.400 | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.321 | 136  | 25694    | 0.400 | ng/ul  | -0.04    |
| 9) Acenaphthene-d10         | 14.202 | 164  | 13860    | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.961 | 188  | 24407m   | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.171 | 240  | 17190m   | 0.400 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 23.365 | 264  | 18785m   | 0.400 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.101  | 96   | 30637    | 3.152 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.927 | 152  | 8332     | 0.215 | ng/ul  | -0.04    |
| 18) Fluoranthene-d10        | 18.999 | 212  | 12982    | 0.232 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.371 | 128  | 6846     | 0.099 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.004 | 142  | 2582     | 0.060 | ng/ul  | 95       |
| 8) 1-Methylnaphthalene      | 12.224 | 142  | 2046     | 0.046 | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.920 | 152  | 12743    | 0.228 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.267 | 153  | 10432    | 0.225 | ng/ul  | 99       |
| 12) Fluorene                | 15.262 | 166  | 13240    | 0.250 | ng/ul  | 98       |
| 15) Phenanthrene            | 16.999 | 178  | 223341m  | 3.360 | ng/ul  |          |
| 16) Anthracene              | 17.092 | 178  | 41703m   | 0.768 | ng/ul  |          |
| 19) Fluoranthene            | 19.031 | 202  | 400199   | 5.726 | ng/ul  | 98       |
| 20) Pyrene                  | 19.394 | 202  | 289114   | 3.996 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.153 | 228  | 175536m  | 3.208 | ng/ul  |          |
| 22) Chrysene                | 21.206 | 228  | 177569   | 2.243 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.708 | 252  | 234686m  | 3.541 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.746 | 252  | 80968m   | 1.002 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.269 | 252  | 93858    | 1.636 | ng/ul# | 85       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.572 | 276  | 81152    | 1.045 | ng/ul# | 93       |
| 28) Dibenzo(a,h)anthracene  | 25.572 | 278  | 27698    | 0.460 | ng/ul# | 90       |
| 29) Benzo(g,h,i)perylene    | 26.253 | 276  | 11891    | 0.183 | ng/ul# | 82       |
| -----                       |        |      |          |       |        |          |

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

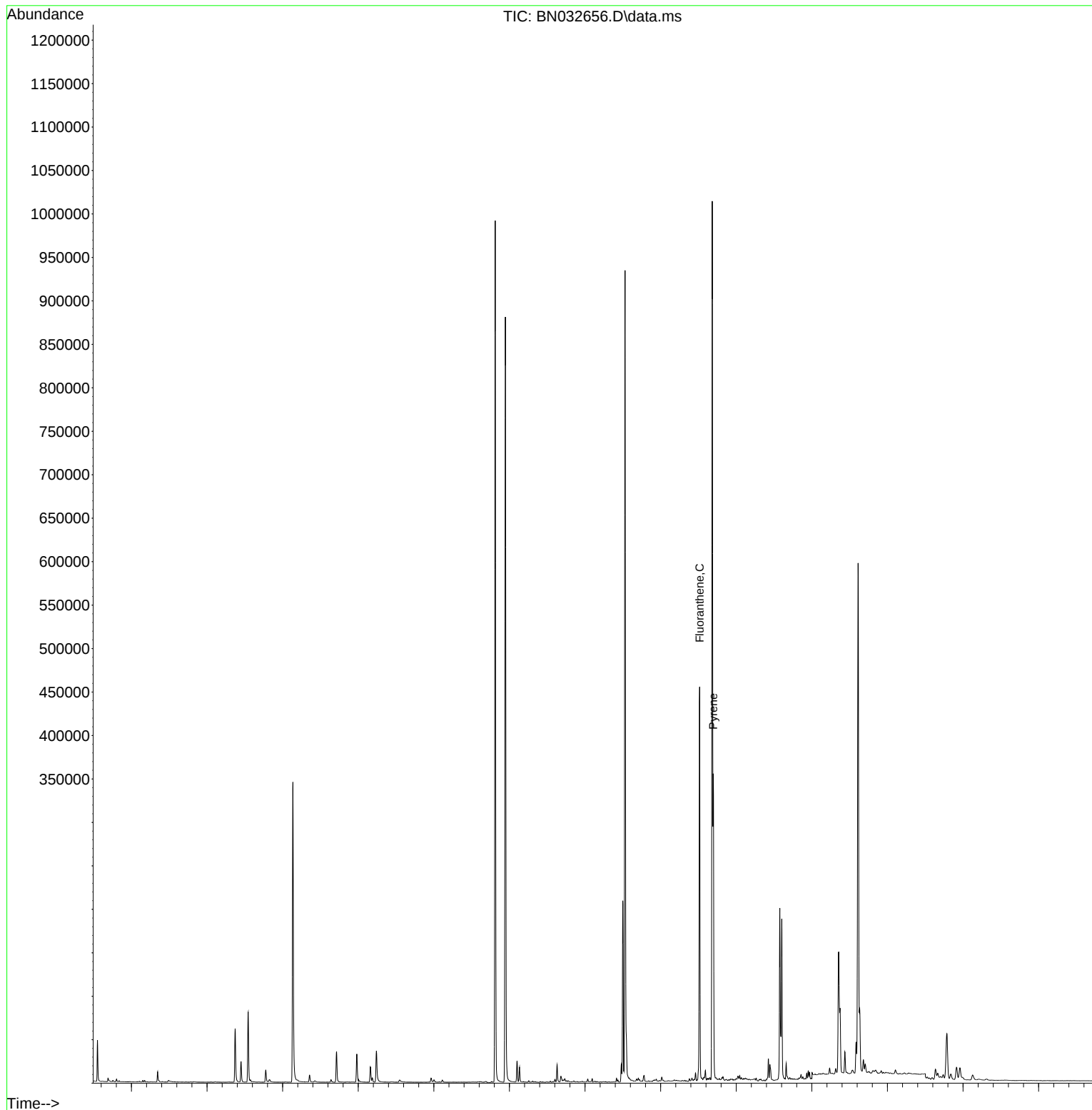
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071224\  
Data File : BN032656.D  
Acq On : 12 Jul 2024 03:59  
Operator : MA/JU  
Sample : P3035-21  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

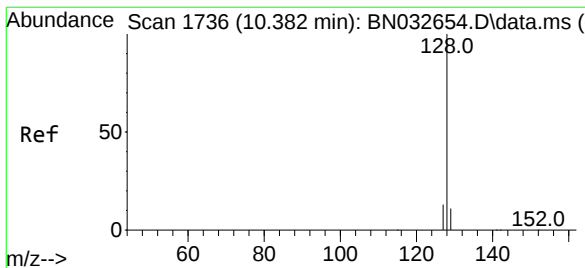
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9

Manual Integrations  
APPROVED

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Supervised By :mohammad ahmed 07/16/2024

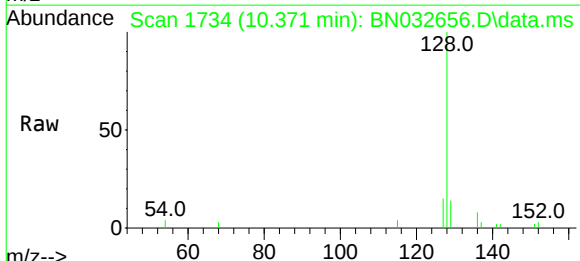
Quant Time: Jul 12 04:28:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 01:40:24 2024  
Response via : Initial Calibration





Naphthalene  
 Concen: 0.099 ng/ul  
 RT: 10.371 min Scan# 1734  
 Delta R.T. -0.038 min  
 Lab File: BN032656.D  
 Acq: 12 Jul 2024 03:59

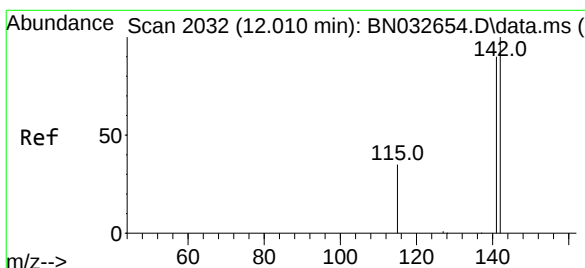
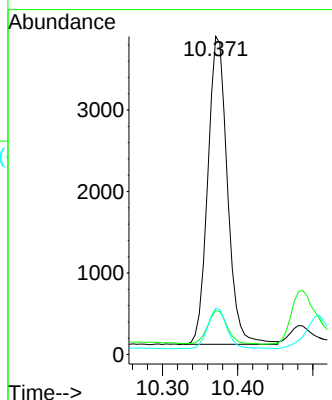
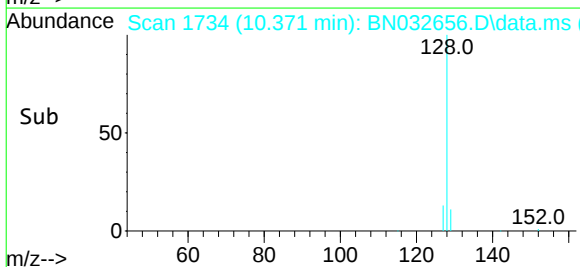
Instrument : BNA\_N  
 ClientSampleId : A4CB9



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 6846 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 13.9  | 10.0  | 15.0 |
| 127       | 14.5  | 11.6  | 17.4 |

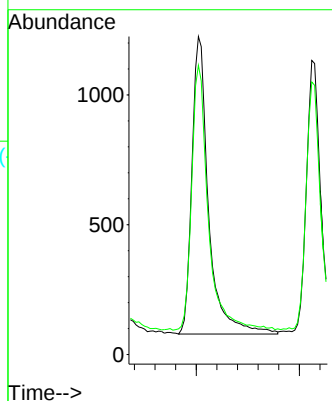
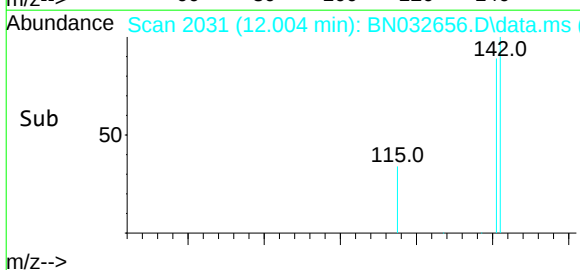
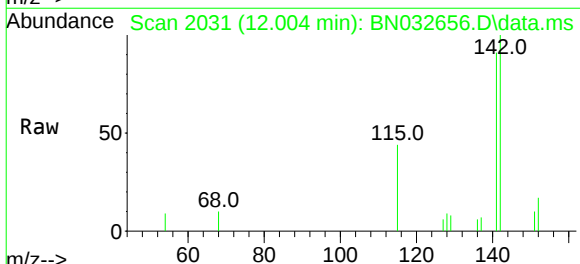
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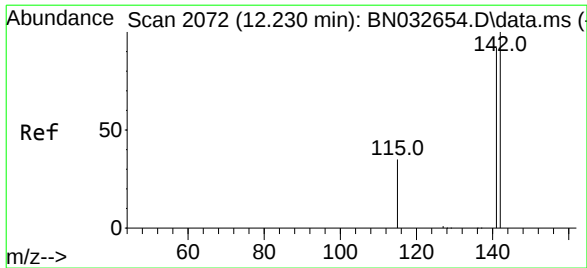
Reviewed By :Jagrut Upadhyay 07/12/2024  
 Supervised By :mohammad ahmed 07/16/2024



2-Methylnaphthalene  
 Concen: 0.060 ng/ul  
 RT: 12.004 min Scan# 2031  
 Delta R.T. -0.044 min  
 Lab File: BN032656.D  
 Acq: 12 Jul 2024 03:59

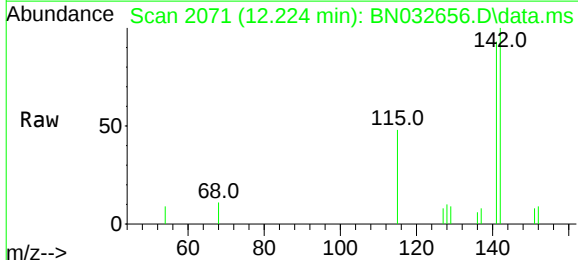
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 2582  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.0  | 74.0  | 111.0 |





#8  
1-Methylnaphthalene  
Concen: 0.046 ng/u1  
RT: 12.224 min Scan# 2071  
Delta R.T. -0.022 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

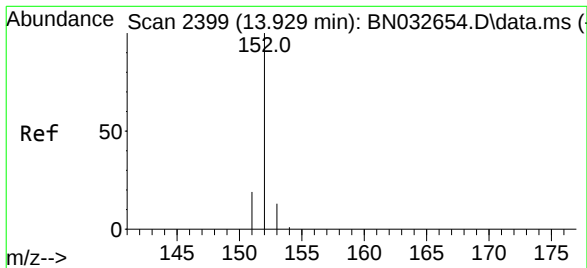
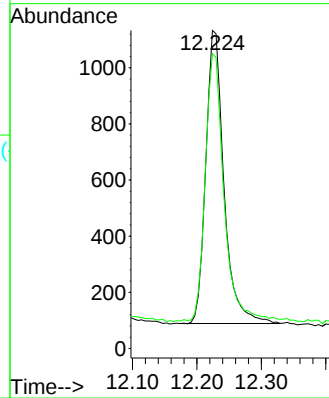
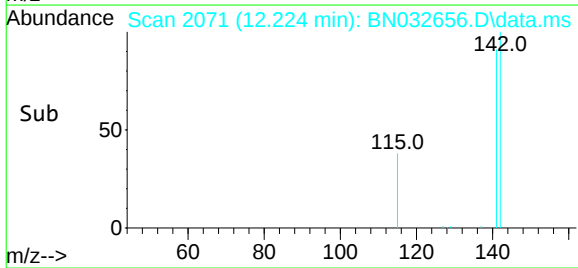
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9



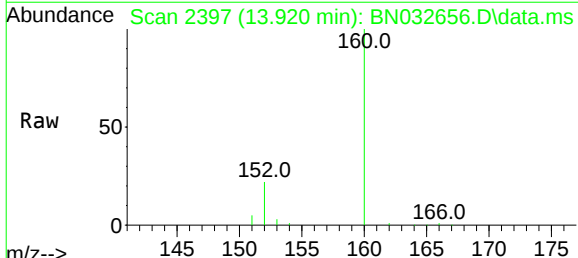
Tgt Ion:142 Resp: 2046  
Ion Ratio Lower Upper  
142 100  
141 94.3 75.0 112.4

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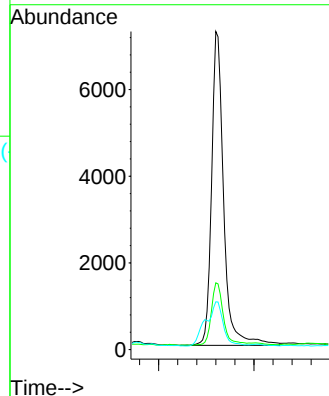
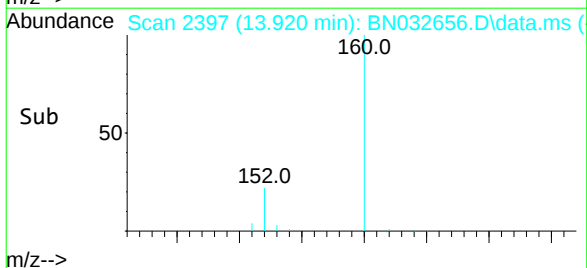
Reviewed By :Jagrut Upadhyay 07/12/2024  
Supervised By :mohammad ahmed 07/16/2024

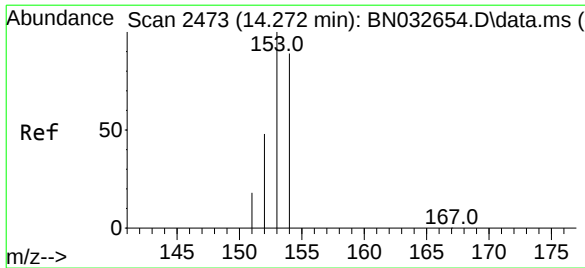


#10  
Acenaphthylene  
Concen: 0.228 ng/u1  
RT: 13.920 min Scan# 2397  
Delta R.T. -0.023 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59



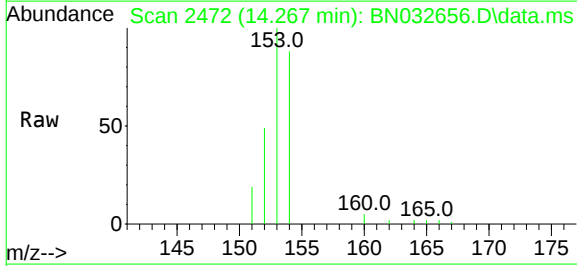
Tgt Ion:152 Resp: 12743  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.3 24.5  
153 15.0 11.3 16.9





#11  
Acenaphthene  
Concen: 0.225 ng/u1  
RT: 14.267 min Scan# 2472  
Delta R.T. -0.014 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

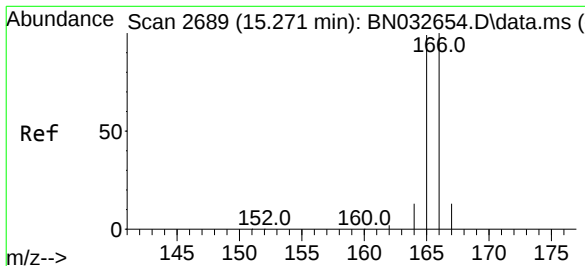
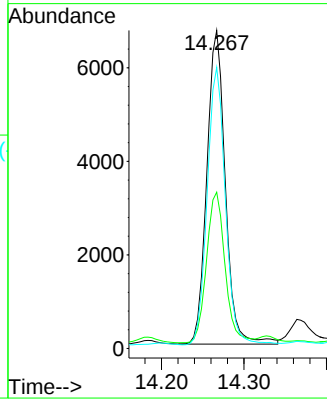
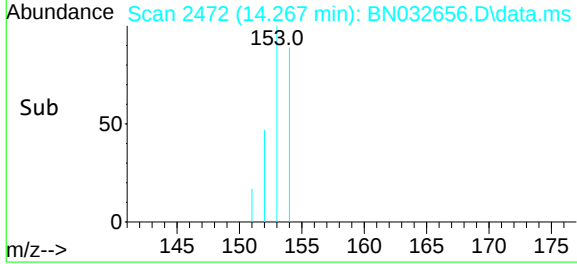
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 10432 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.1  | 40.0  | 60.0  |
| 154       | 88.4  | 70.2  | 105.4 |

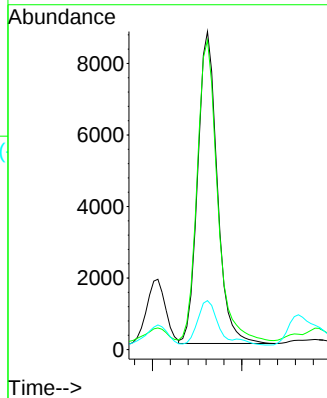
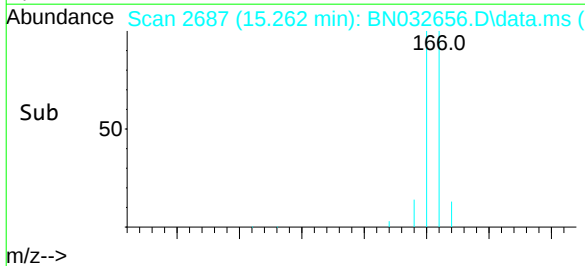
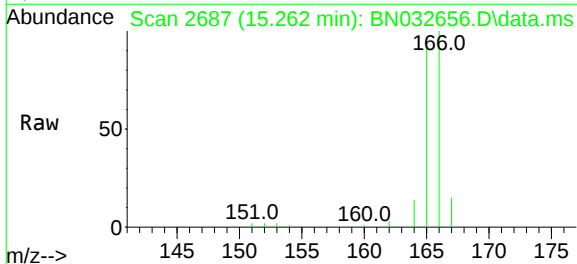
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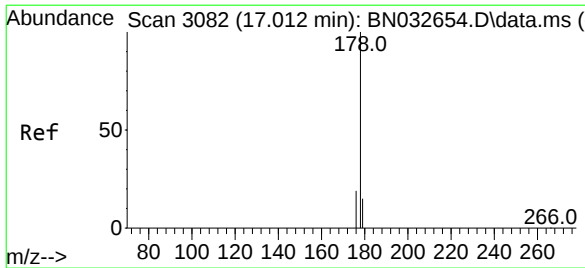
Reviewed By :Jagrut Upadhyay 07/12/2024  
Supervised By :mohammad ahmed 07/16/2024



#12  
Fluorene  
Concen: 0.250 ng/u1  
RT: 15.262 min Scan# 2687  
Delta R.T. -0.028 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

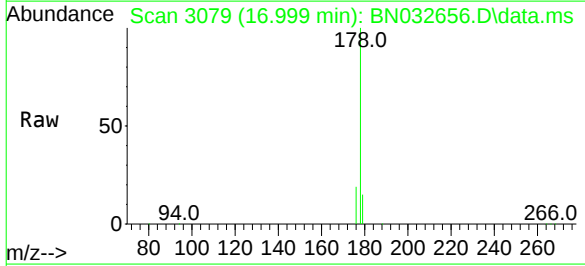
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 13240 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.3  | 79.7  | 119.5 |
| 167       | 15.4  | 11.4  | 17.2  |





#15  
Phenanthrene  
Concen: 3.360 ng/u1 m  
RT: 16.999 min Scan# 3082  
Delta R.T. -0.030 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

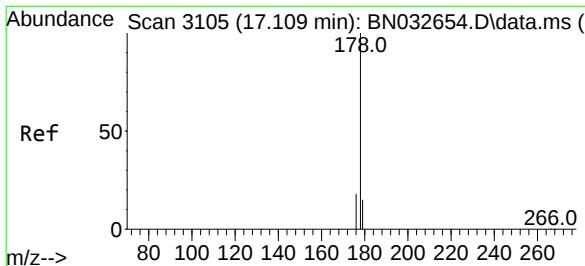
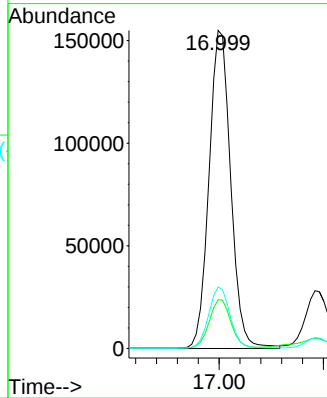
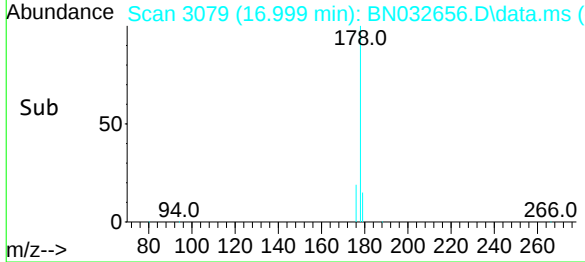
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9



Tgt Ion:178 Resp: 223341  
Ion Ratio Lower Upper  
178 100  
179 15.4 13.0 19.4  
176 19.3 15.6 23.4

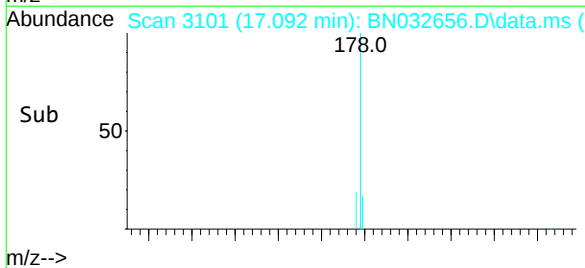
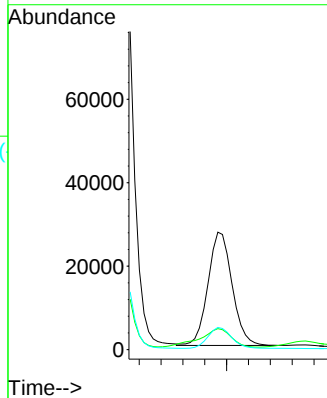
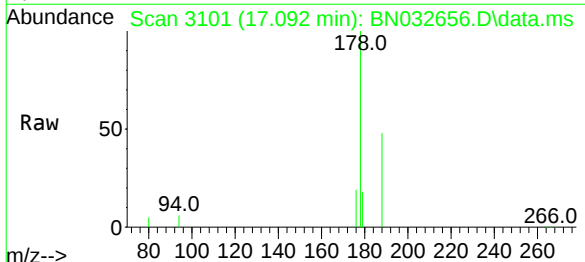
Manual Integrations  
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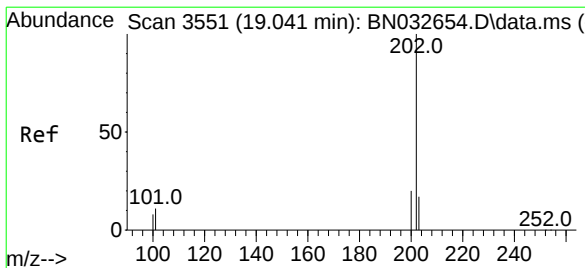
Reviewed By :Jagrut Upadhyay 07/12/2024  
Supervised By :mohammad ahmed 07/16/2024



#16  
Anthracene  
Concen: 0.768 ng/u1 m  
RT: 17.092 min Scan# 3101  
Delta R.T. -0.046 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

Tgt Ion:178 Resp: 41703  
Ion Ratio Lower Upper  
178 100  
179 17.9 13.4 20.2  
176 18.9 15.4 23.0





#19

Fluoranthene

Concen: 5.726 ng/u1

RT: 19.031 min Scan# 35

Delta R.T. -0.023 min

Lab File: BN032656.D

Acq: 12 Jul 2024 03:59

Instrument :

BNA\_N

ClientSampleId :

A4CB9

Tgt Ion:202 Resp: 400199

Ion Ratio Lower Upper

202 100

101 11.7 9.8 14.8

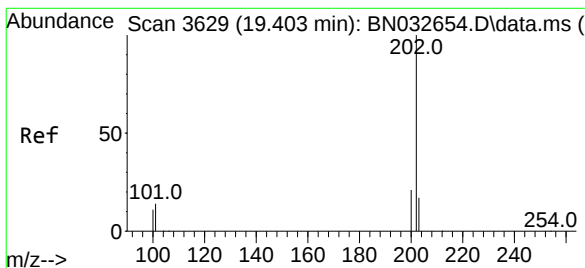
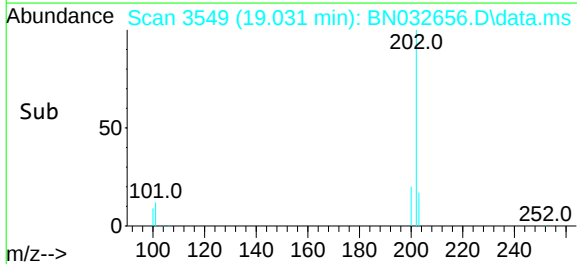
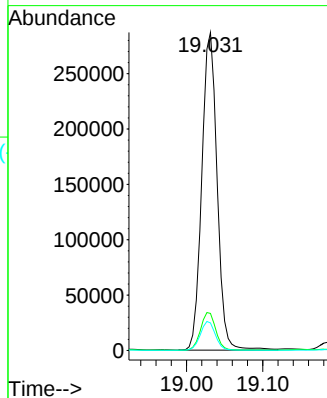
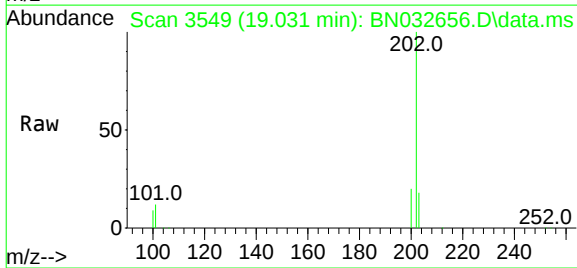
100 8.7 7.9 11.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 07/12/2024

Supervised By :mohammad ahmed 07/16/2024



#20

Pyrene

Concen: 3.996 ng/u1

RT: 19.394 min Scan# 3627

Delta R.T. -0.028 min

Lab File: BN032656.D

Acq: 12 Jul 2024 03:59

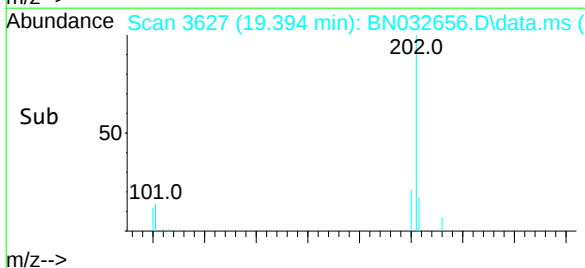
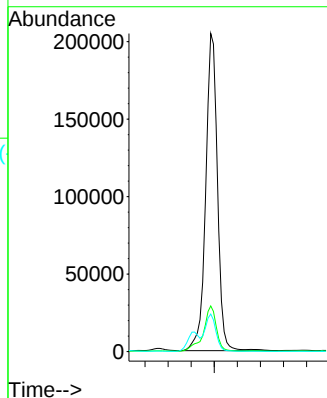
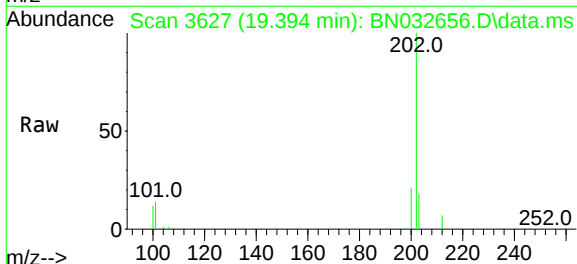
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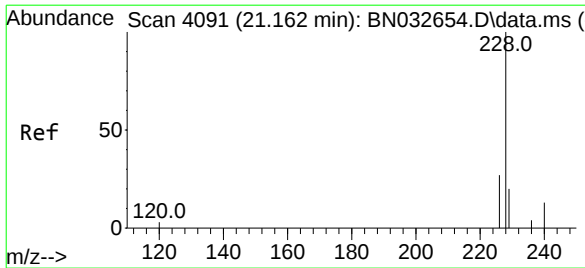
Ion Ratio Lower Upper

202 100

101 14.4 11.8 17.6

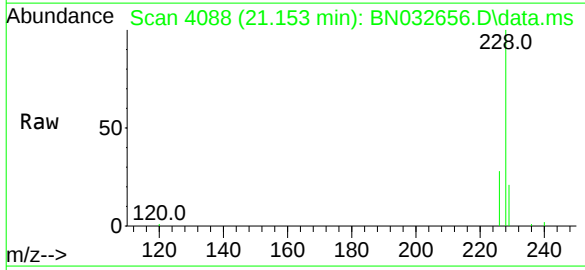
100 11.8 9.6 14.4





#21  
Benzo(a)anthracene  
Concen: 3.208 ng/u1 m  
RT: 21.153 min Scan# 408  
Delta R.T. -0.029 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

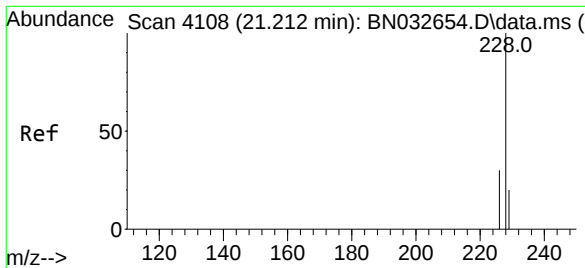
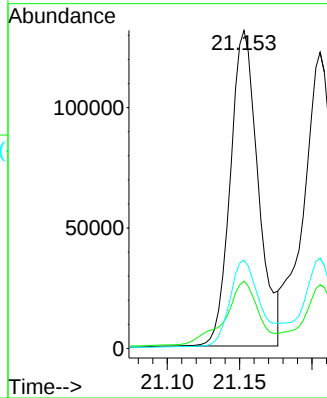
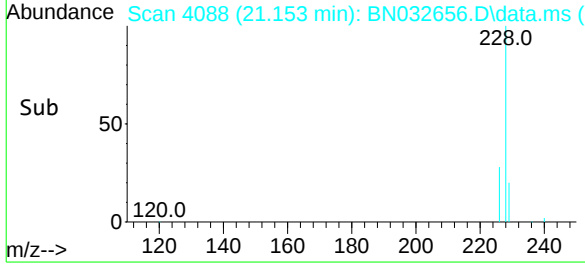
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9



Tgt Ion:228 Resp: 175536  
Ion Ratio Lower Upper  
228 100  
229 21.2 16.1 24.1  
226 27.8 21.9 32.9

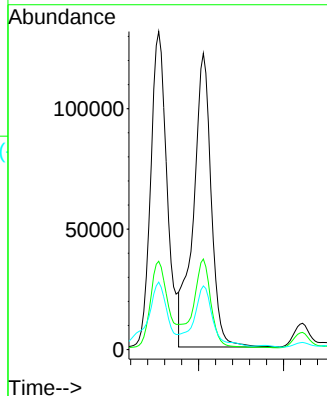
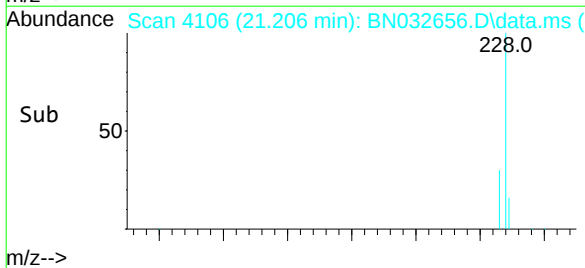
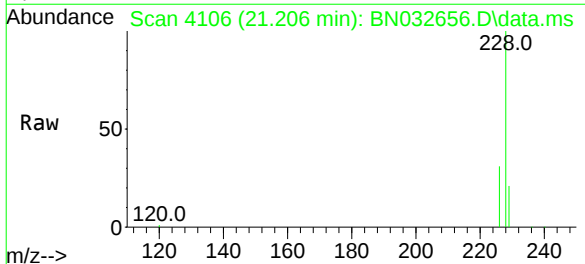
Manual Integrations  
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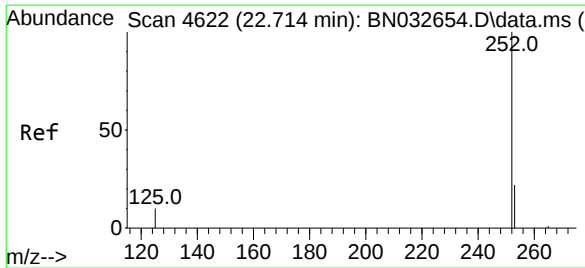
Reviewed By :Jagrut Upadhyay 07/12/2024  
Supervised By :mohammad ahmed 07/16/2024



#22  
Chrysene  
Concen: 2.243 ng/u1  
RT: 21.206 min Scan# 4106  
Delta R.T. -0.026 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

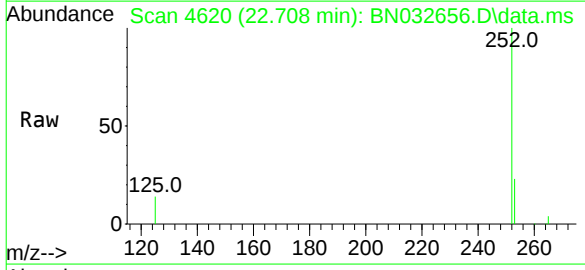
Tgt Ion:228 Resp: 177569  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.0 36.0  
229 21.5 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 3.541 ng/u1 m  
RT: 22.708 min Scan# 4620  
Delta R.T. -0.026 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

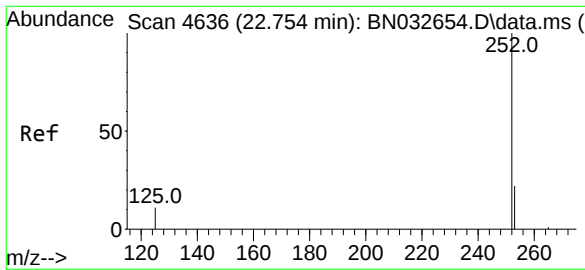
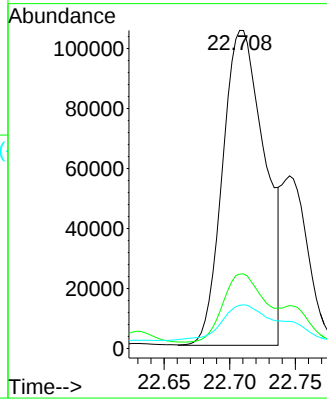
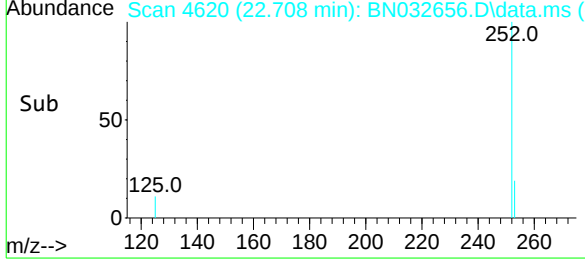
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 0.0   | 54.0  |
| 125     | 13.6  | 0.0   | 36.0  |

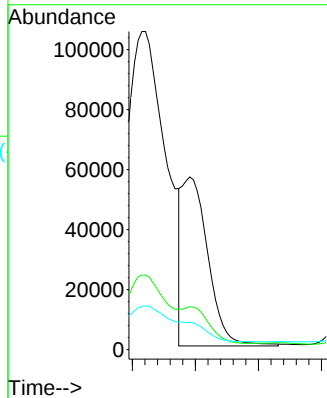
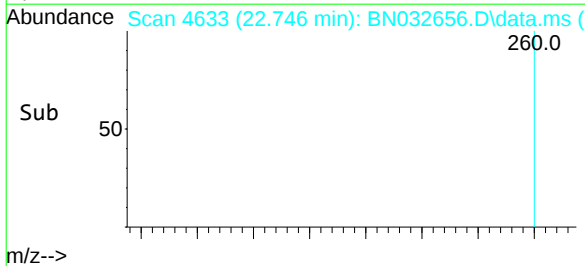
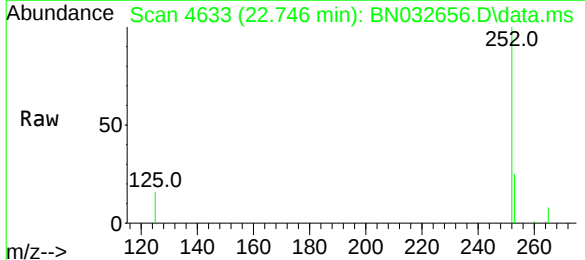
Manual Integrations  
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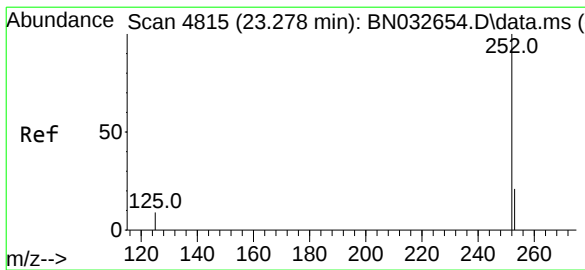
Reviewed By :Jagrut Upadhyay 07/12/2024  
Supervised By :mohammad ahmed 07/16/2024



#25  
Benzo(k)fluoranthene  
Concen: 1.002 ng/u1 m  
RT: 22.746 min Scan# 4633  
Delta R.T. -0.032 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 21.2  | 31.8  |
| 125     | 15.8  | 14.8  | 22.2  |





#26

Benzo(a)pyrene

Concen: 1.636 ng/ul

RT: 23.269 min Scan# 4815

Delta R.T. -0.041 min

Lab File: BN032656.D

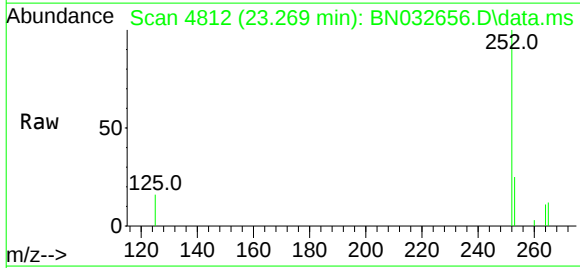
Acq: 12 Jul 2024 03:59

Instrument :

BN032656.D

ClientSampleId :

A4CB9



Tgt Ion:252 Resp: 93858

Ion Ratio Lower Upper

252 100

253 25.0 25.4 38.0#

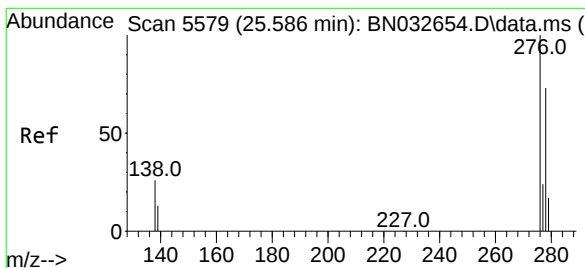
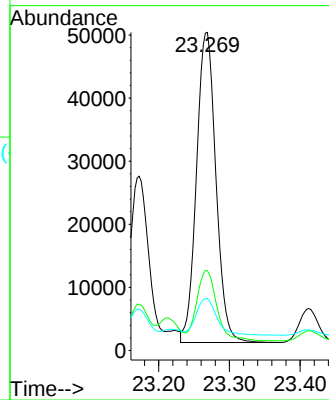
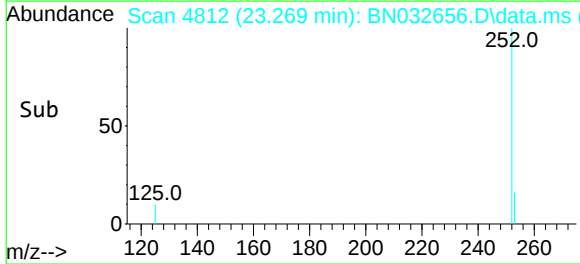
125 16.3 20.6 30.8#

Manual Integrations

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Reviewed By :Jagrut Upadhyay 07/12/2024

Supervised By :mohammad ahmed 07/16/2024



#27

Indeno(1,2,3-cd)pyrene

Concen: 1.045 ng/ul

RT: 25.572 min Scan# 5575

Delta R.T. -0.054 min

Lab File: BN032656.D

Acq: 12 Jul 2024 03:59

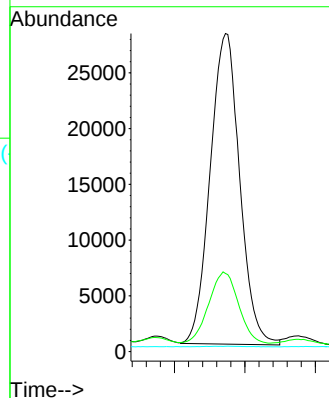
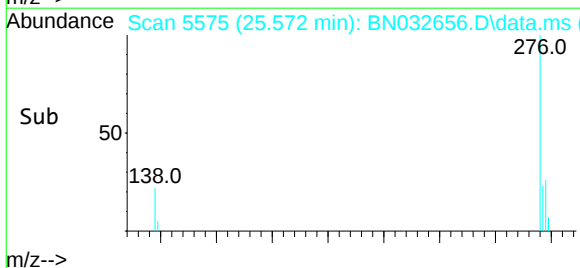
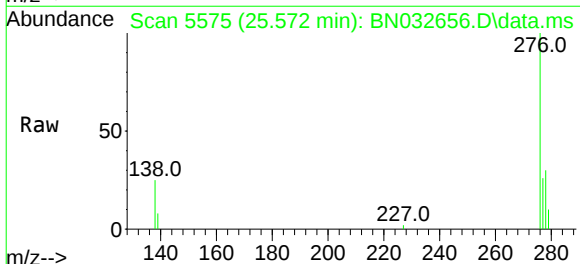
Tgt Ion:276 Resp: 81152

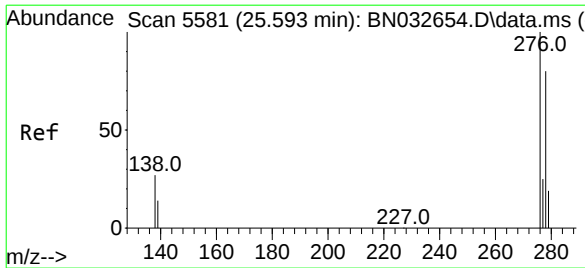
Ion Ratio Lower Upper

276 100

138 23.2 21.6 32.4

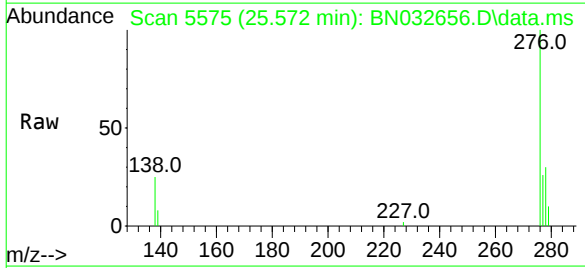
227 0.2 0.0 0.0#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.460 ng/ul  
RT: 25.572 min Scan# 5581  
Delta R.T. -0.067 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59

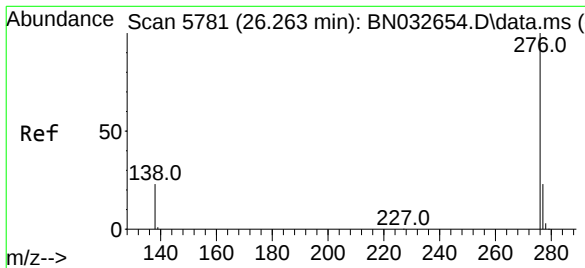
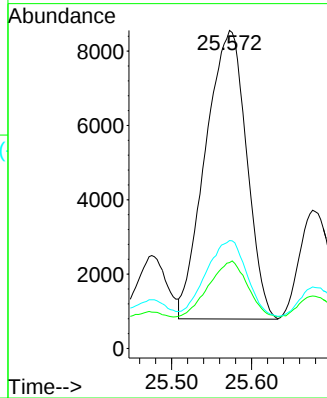
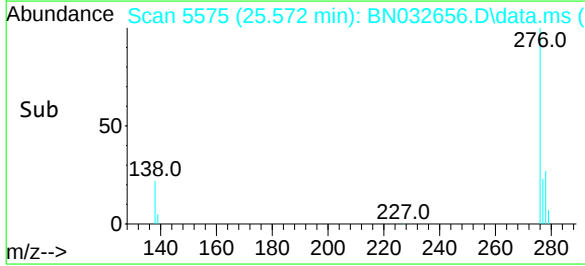
Instrument :  
BNA\_N  
ClientSampleId :  
A4CB9



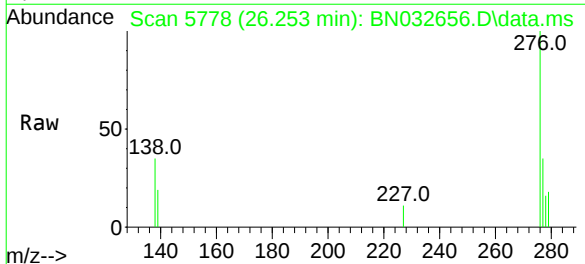
Tgt Ion: 278 Resp: 27698  
Ion Ratio Lower Upper  
278 100  
139 27.0 16.6 24.8#  
279 33.9 23.7 35.5

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 07/12/2024  
Supervised By :mohammad ahmed 07/16/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.183 ng/ul  
RT: 26.253 min Scan# 5778  
Delta R.T. -0.047 min  
Lab File: BN032656.D  
Acq: 12 Jul 2024 03:59



Tgt Ion: 276 Resp: 11891  
Ion Ratio Lower Upper  
276 100  
138 35.0 21.0 31.4#  
277 35.4 20.6 31.0#

