

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051023\  
 Data File : BN025389.D  
 Acq On : 10 May 2023 20:19  
 Operator : CG/JU  
 Sample : 02479-16DL 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW975DL

Quant Time: May 11 02:09:39 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 11 02:07:13 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 05/11/2023  
 Supervised By :Jagrut Upadhyay 05/11/2023

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.904  | 152  | 8404     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.710 | 136  | 26980    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.552 | 164  | 16054    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.300 | 188  | 33802    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.494 | 240  | 21378    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.920 | 264  | 22387    | 0.400  | ng/ul  | #-0.02   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.280  | 96   | 5347     | 0.614  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.304 | 152  | 1815     | 0.052  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.331 | 212  | 4328     | 0.077  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.759 | 128  | 65747    | 0.951  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.376 | 142  | 78259    | 1.848  | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.596 | 142  | 38849    | 0.861  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.274 | 152  | 36773    | 0.615  | ng/ul# | 96       |
| 11) Acenaphthene            | 14.612 | 153  | 25486    | 0.506  | ng/ul  | 99       |
| 12) Fluorene                | 15.602 | 166  | 30204    | 0.536  | ng/ul  | 98       |
| 15) Phenanthrene            | 17.343 | 178  | 588144   | 6.164  | ng/ul  | 99       |
| 16) Anthracene              | 17.431 | 178  | 131363   | 1.683  | ng/ul  | 100      |
| 19) Fluoranthene            | 19.363 | 202  | 1064592  | 13.771 | ng/ul  | 99       |
| 20) Pyrene                  | 19.726 | 202  | 897730   | 11.302 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.476 | 228  | 391968   | 6.085  | ng/ul  | 97       |
| 22) Chrysene                | 21.532 | 228  | 396775m  | 5.646  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.183 | 252  | 487034m  | 5.362  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.227 | 252  | 174877m  | 2.002  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.815 | 252  | 329519   | 4.385  | ng/ul  | 97       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.443 | 276  | 236890   | 2.736  | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 26.443 | 278  | 62855    | 0.929  | ng/ul# | 71       |
| 29) Benzo(g,h,i)perylene    | 27.225 | 276  | 231686   | 3.147  | ng/ul  | 95       |
| -----                       |        |      |          |        |        |          |

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

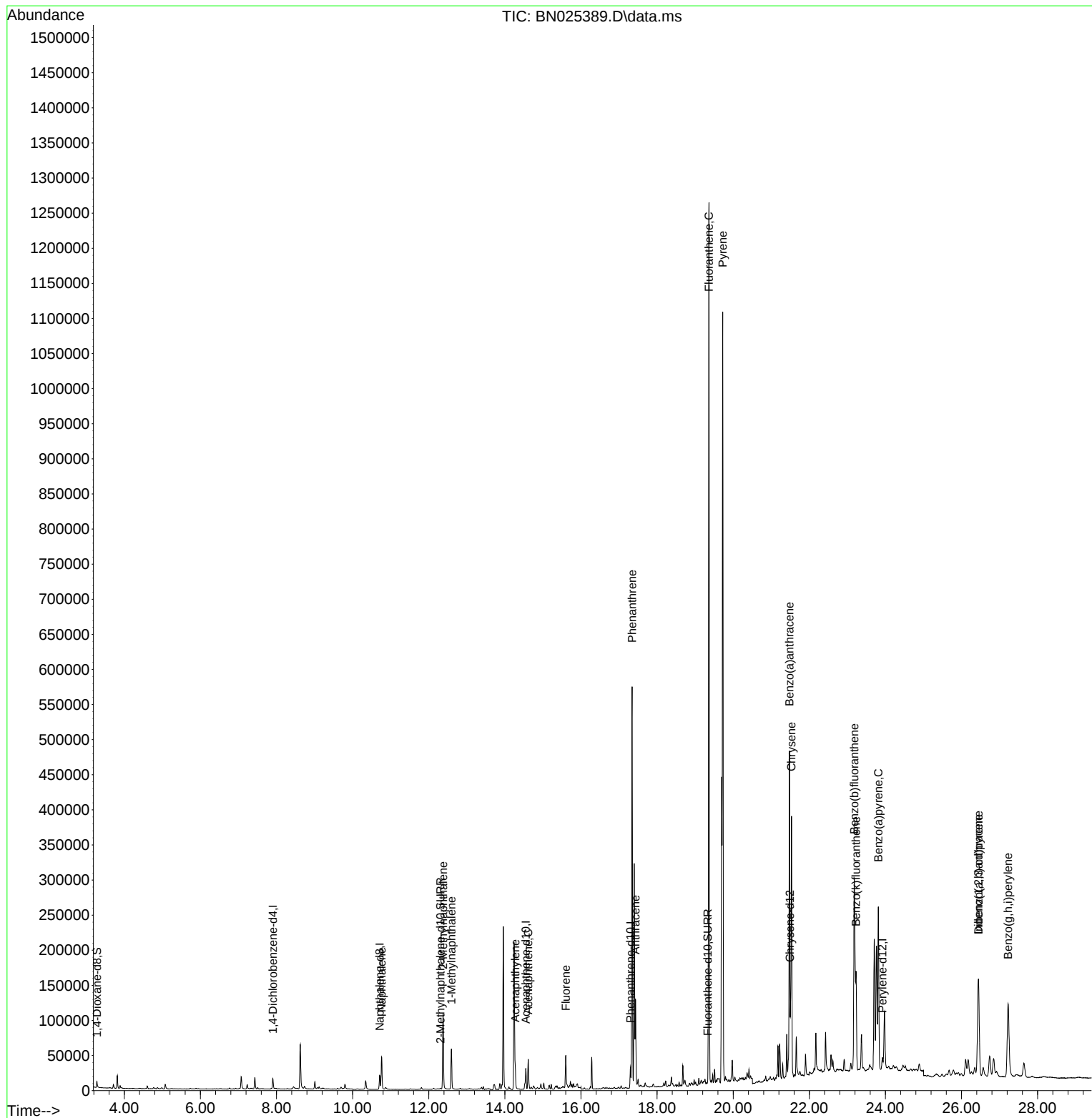
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Data File : BN025389.D  
Acq On : 10 May 2023 20:19  
Operator : CG/JU  
Sample : 02479-16DL 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

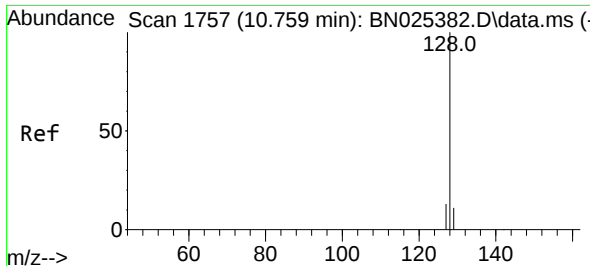
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL

Quant Time: May 11 02:09:39 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 11 02:07:13 2023  
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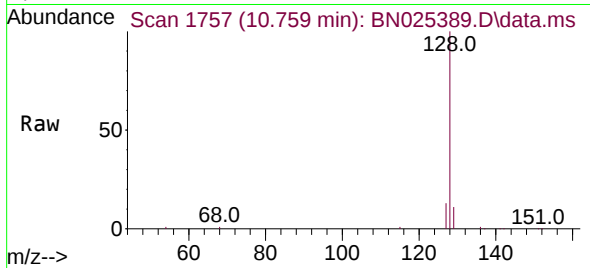
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023





#5  
Naphthalene  
Concen: 0.951 ng/ul  
RT: 10.759 min Scan# 1757  
Delta R.T. -0.000 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

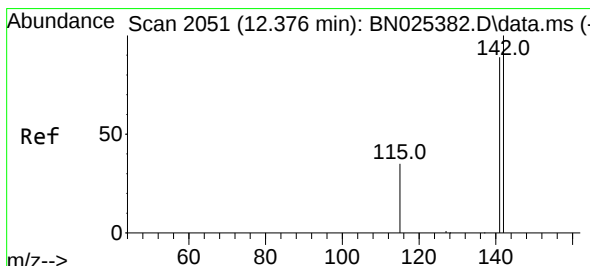
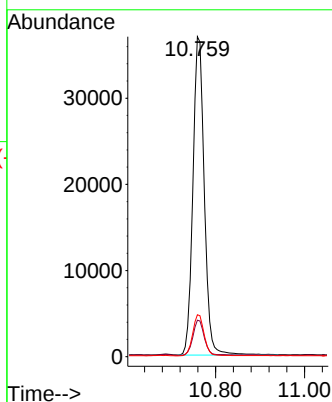
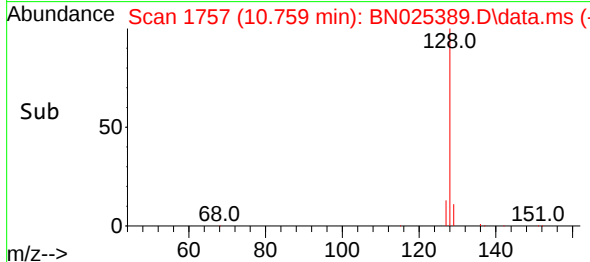
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



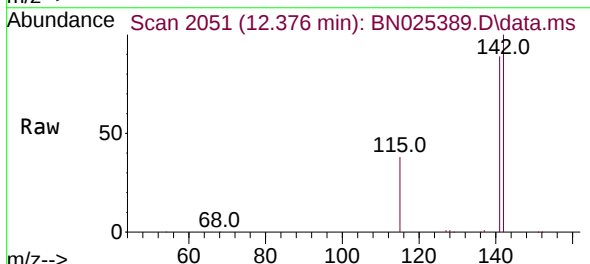
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Ion Ratio Lower Upper  
128 100  
129 11.4 9.0 13.6  
127 13.1 10.7 16.1

Manual Integrations  
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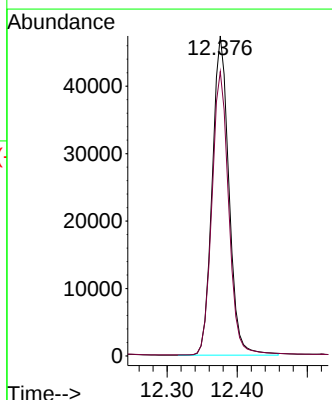
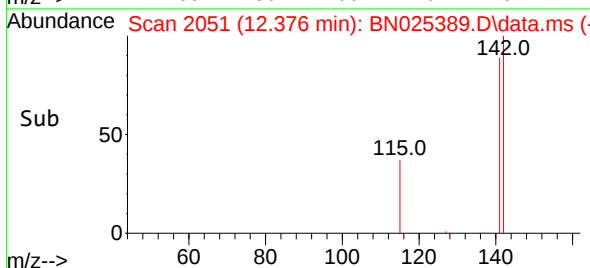
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

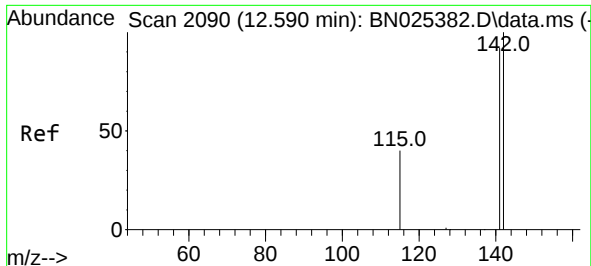


#7  
2-Methylnaphthalene  
Concen: 1.848 ng/ul  
RT: 12.376 min Scan# 2051  
Delta R.T. -0.000 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19



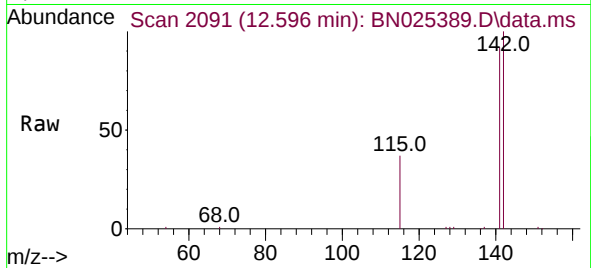
Tgt Ion:142 Resp: 78259  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.4 107.0





#8  
1-Methylnaphthalene  
Concen: 0.861 ng/ul  
RT: 12.596 min Scan# 2091  
Delta R.T. 0.005 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

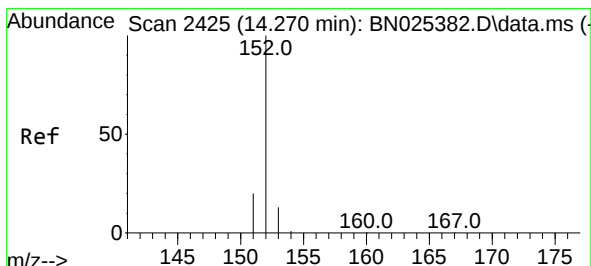
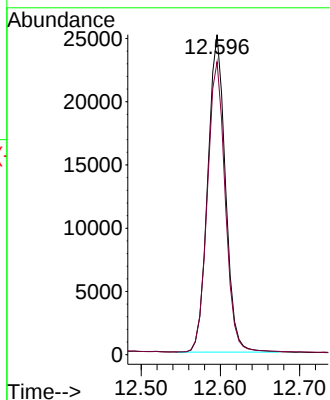
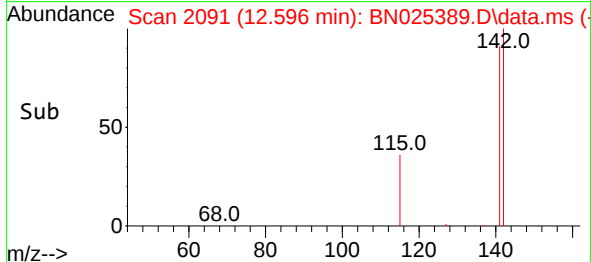
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



Tgt Ion:142 Resp: 38849  
Ion Ratio Lower Upper  
142 100  
141 92.2 73.8 110.6

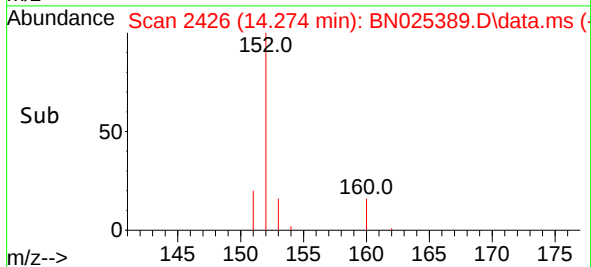
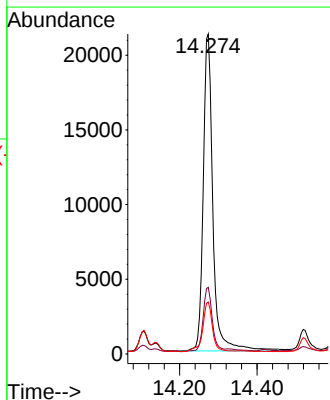
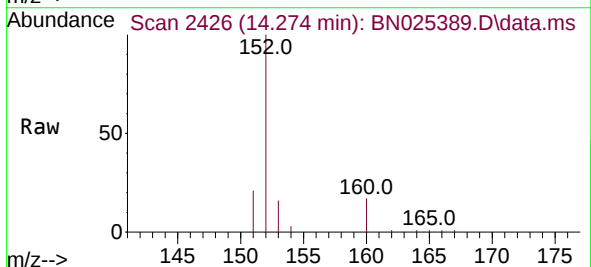
Manual Integrations  
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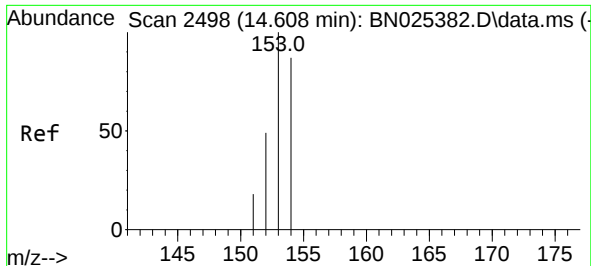
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#10  
Acenaphthylene  
Concen: 0.615 ng/ul  
RT: 14.274 min Scan# 2426  
Delta R.T. 0.004 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

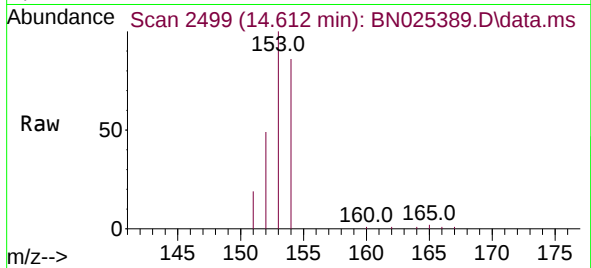
Tgt Ion:152 Resp: 36773  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.0 24.0  
153 16.3 10.8 16.2#





#11  
Acenaphthene  
Concen: 0.506 ng/u1  
RT: 14.612 min Scan# 2499  
Delta R.T. 0.004 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

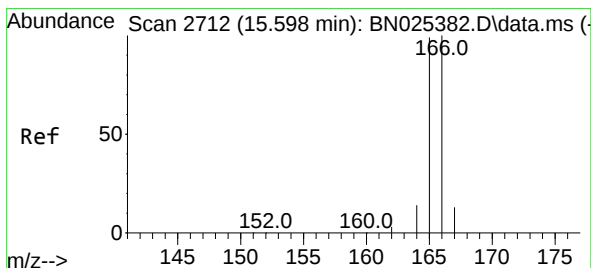
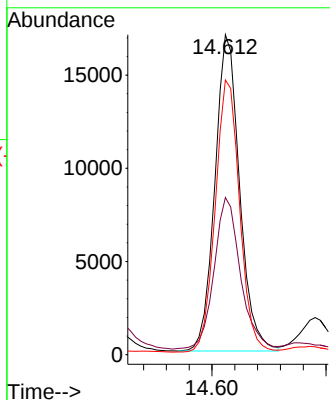
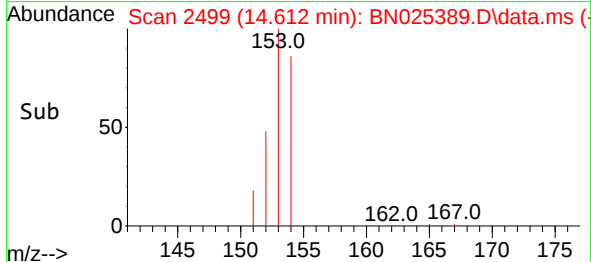
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



Tgt Ion:153 Resp: 25480  
Ion Ratio Lower Upper  
153 100  
152 49.1 40.2 60.4  
154 85.8 69.4 104.2

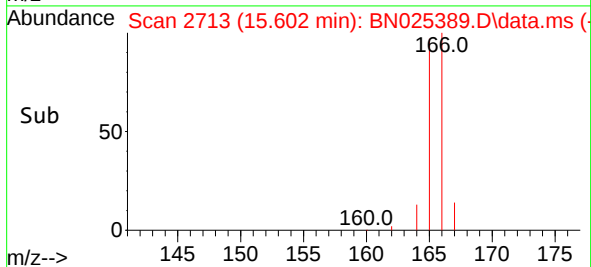
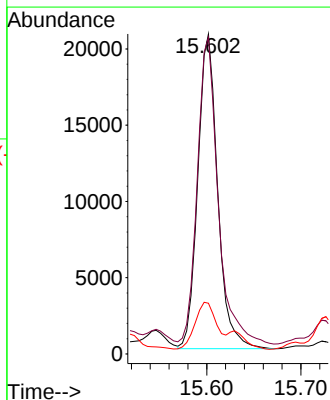
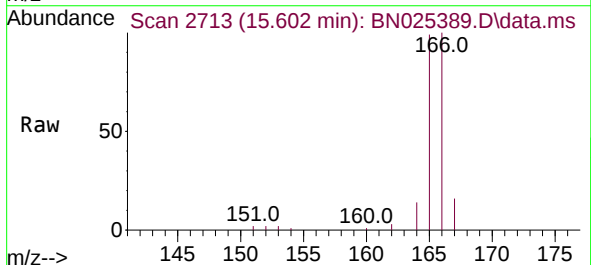
Manual Integrations  
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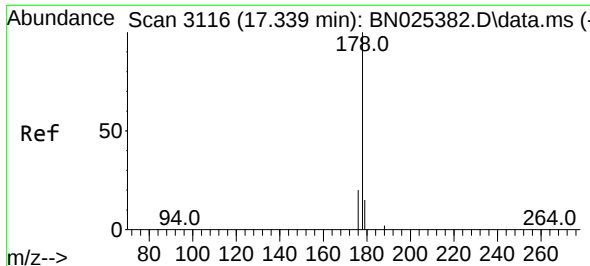
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#12  
Fluorene  
Concen: 0.536 ng/u1  
RT: 15.602 min Scan# 2713  
Delta R.T. 0.004 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

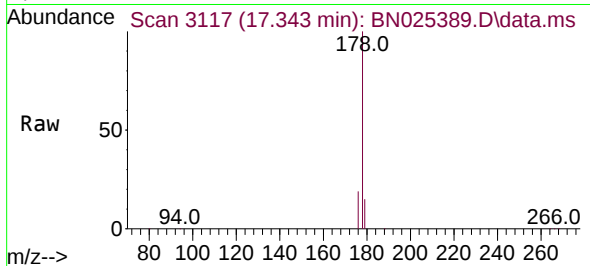
Tgt Ion:166 Resp: 30204  
Ion Ratio Lower Upper  
166 100  
165 99.0 78.1 117.1  
167 15.9 11.0 16.6





#15  
Phenanthrene  
Concen: 6.164 ng/ul  
RT: 17.343 min Scan# 3116  
Delta R.T. 0.003 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

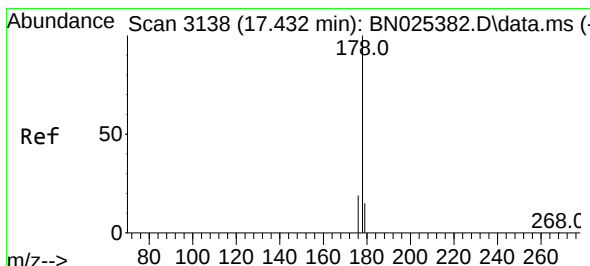
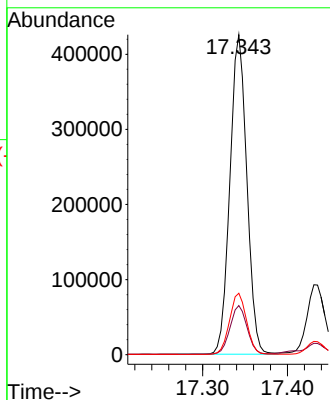
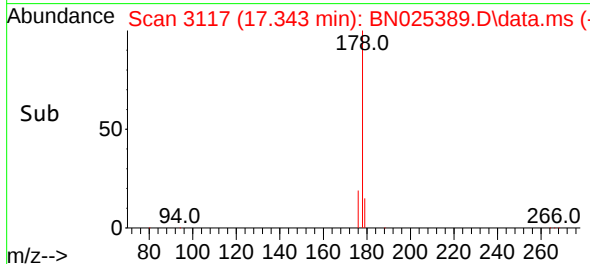
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



Tgt Ion:178 Resp: 588144  
Ion Ratio Lower Upper  
178 100  
179 15.3 12.5 18.7  
176 19.2 15.6 23.4

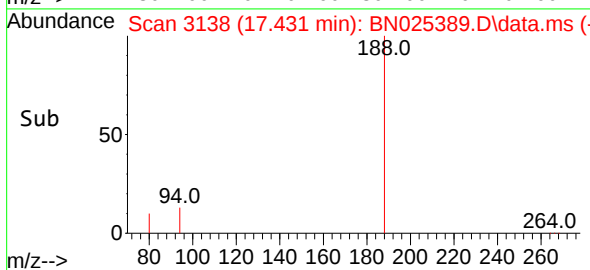
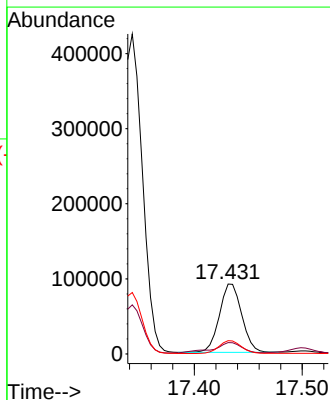
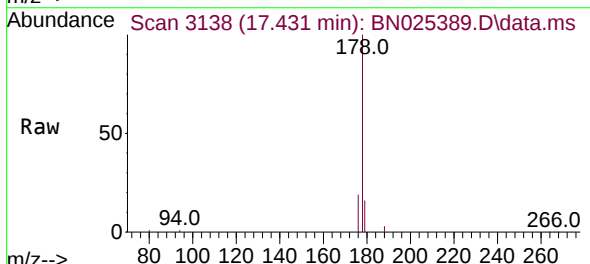
Manual Integrations  
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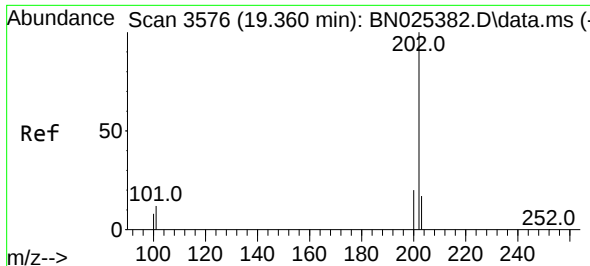
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#16  
Anthracene  
Concen: 1.683 ng/ul  
RT: 17.431 min Scan# 3138  
Delta R.T. -0.001 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

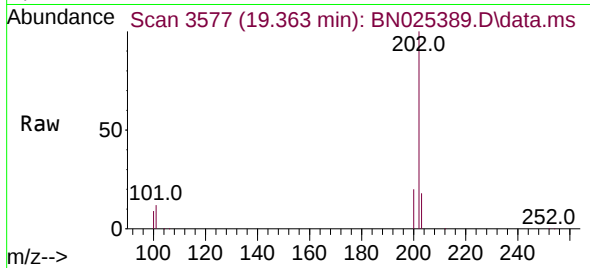
Tgt Ion:178 Resp: 131363  
Ion Ratio Lower Upper  
178 100  
179 16.3 12.7 19.1  
176 19.1 15.3 22.9





#19  
Fluoranthene  
Concen: 13.771 ng/ul  
RT: 19.363 min Scan# 3576  
Delta R.T. 0.004 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

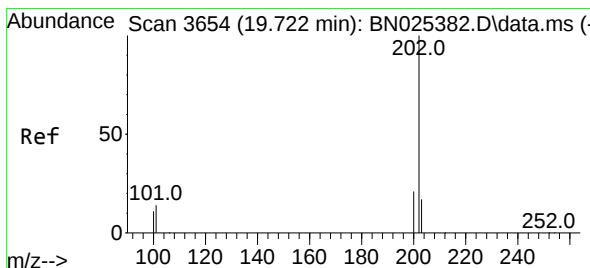
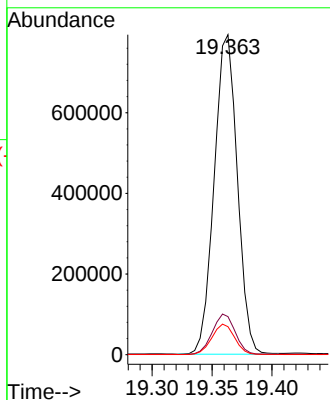
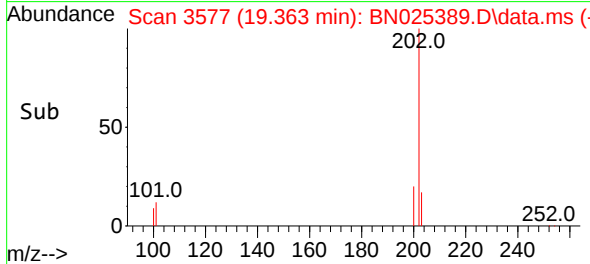
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



Tgt Ion:202 Resp: 106459  
Ion Ratio Lower Upper  
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101 11.9 9.7 14.5  
100 8.7 7.3 10.9

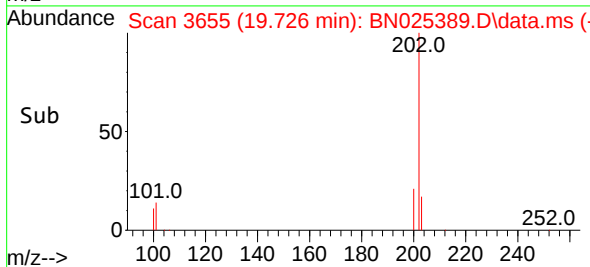
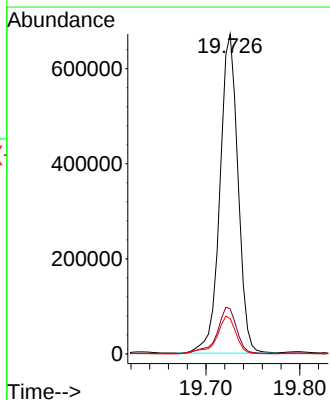
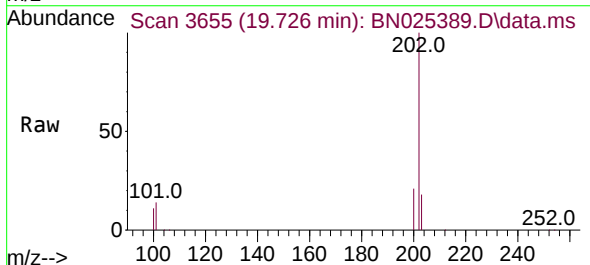
Manual Integrations  
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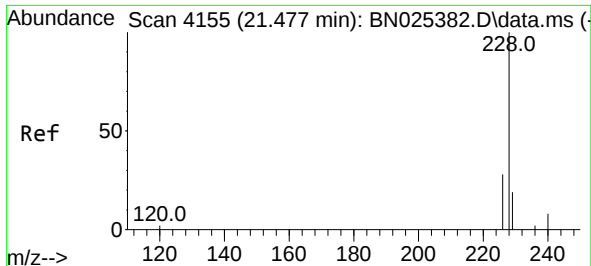
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#20  
Pyrene  
Concen: 11.302 ng/ul  
RT: 19.726 min Scan# 3655  
Delta R.T. 0.004 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

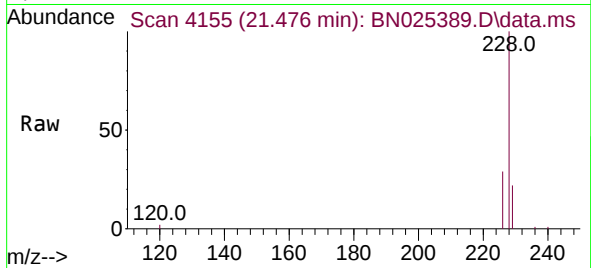
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Ion Ratio Lower Upper  
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101 14.1 11.3 16.9  
100 11.1 9.2 13.8





#21  
Benzo(a)anthracene  
Concen: 6.085 ng/ul  
RT: 21.476 min Scan# 4155  
Delta R.T. -0.001 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

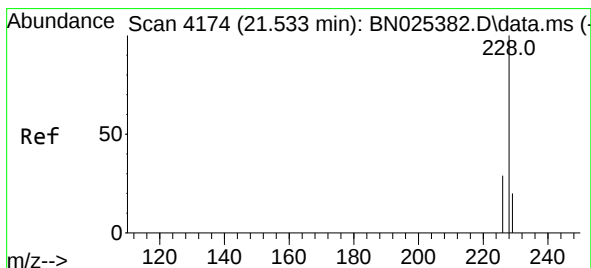
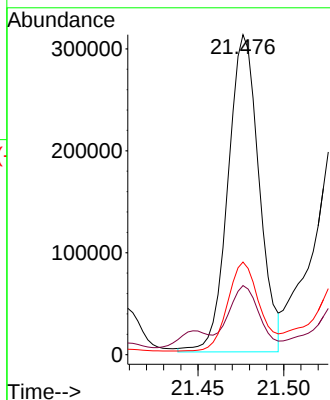
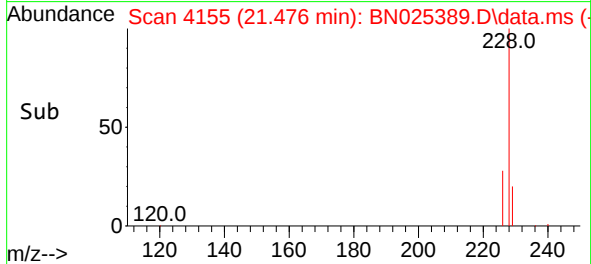
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



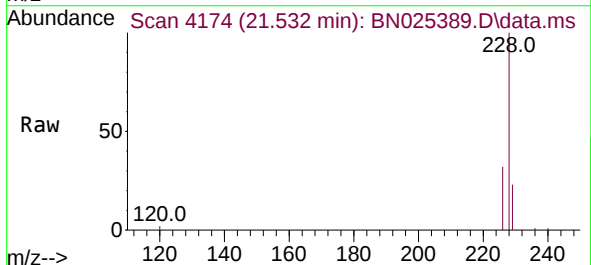
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226 29.0 22.1 33.1

Manual Integrations  
APPROVED

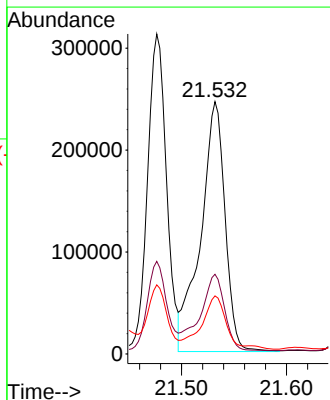
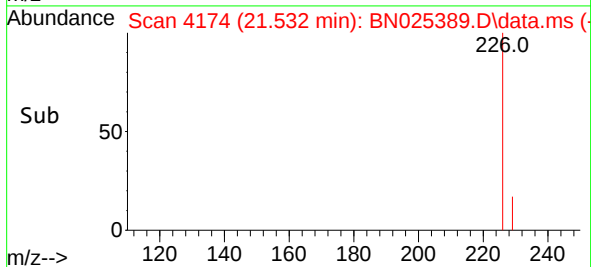
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

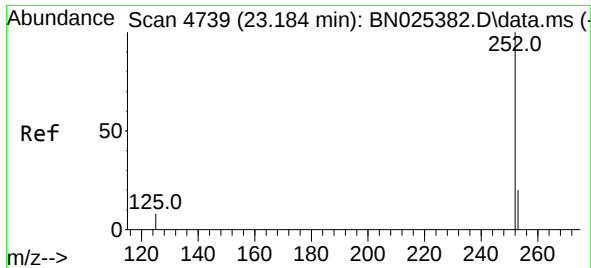


#22  
Chrysene  
Concen: 5.646 ng/ul m  
RT: 21.532 min Scan# 4174  
Delta R.T. -0.001 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19



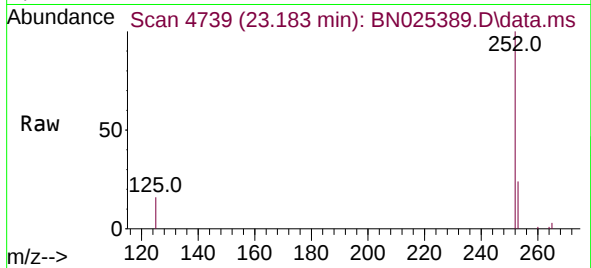
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Ion Ratio Lower Upper  
228 100  
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229 23.0 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 5.362 ng/ul m  
RT: 23.183 min Scan# 4739  
Delta R.T. -0.001 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

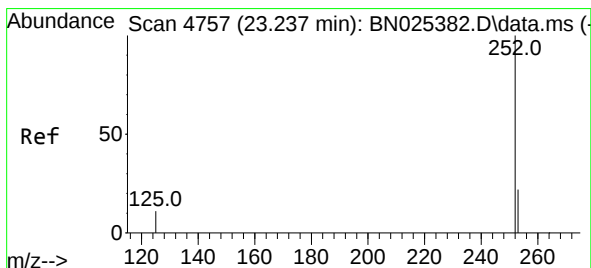
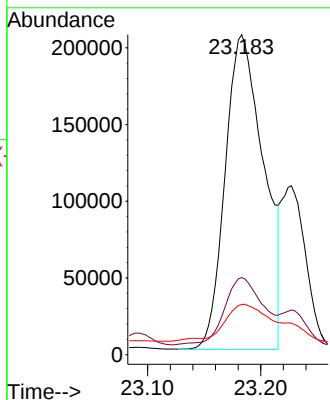
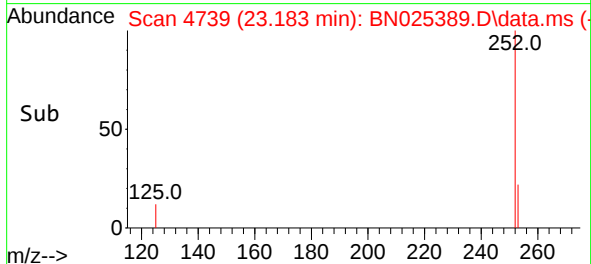
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



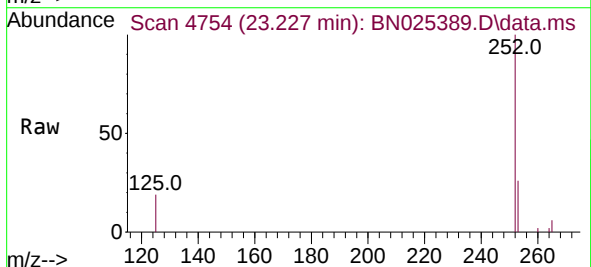
Tgt Ion:252 Resp: 487034  
Ion Ratio Lower Upper  
252 100  
253 24.1 0.0 50.2  
125 15.7 0.0 30.4

Manual Integrations  
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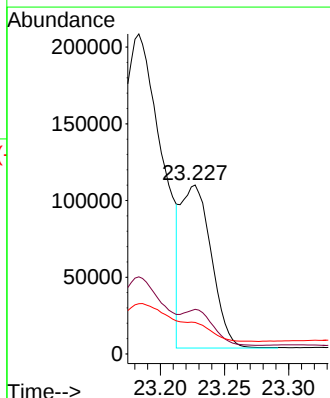
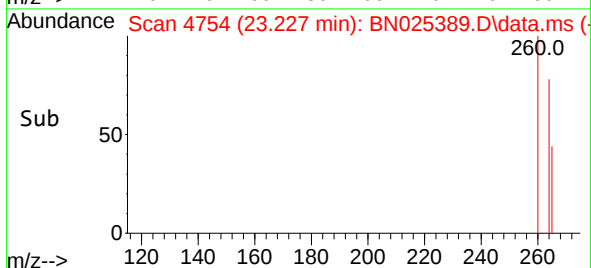
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

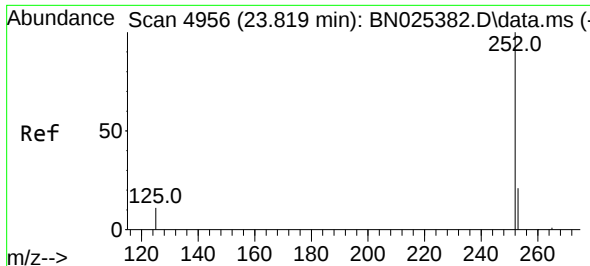


#25  
Benzo(k)fluoranthene  
Concen: 2.002 ng/ul m  
RT: 23.227 min Scan# 4754  
Delta R.T. -0.010 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19



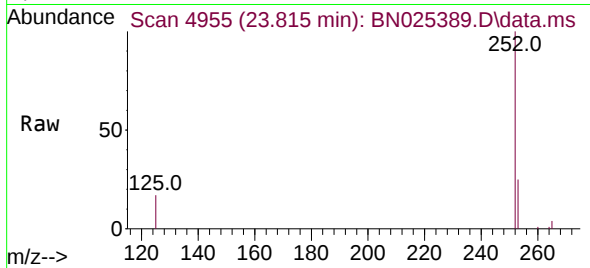
Tgt Ion:252 Resp: 174877  
Ion Ratio Lower Upper  
252 100  
253 26.5 20.2 30.4  
125 18.7 11.8 17.8#





#26  
Benzo(a)pyrene  
Concen: 4.385 ng/ul  
RT: 23.815 min Scan# 4956  
Delta R.T. -0.004 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19

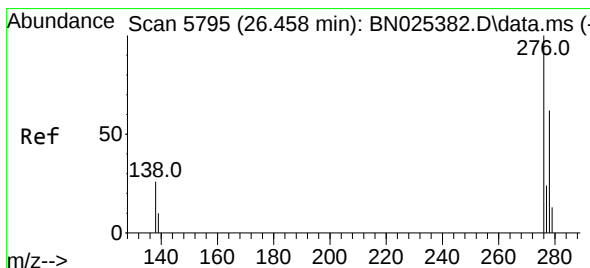
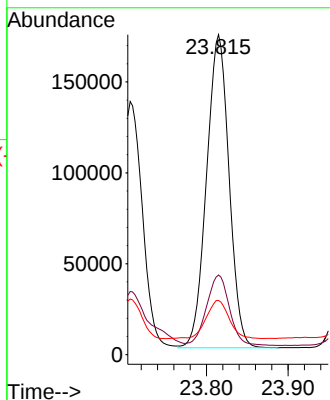
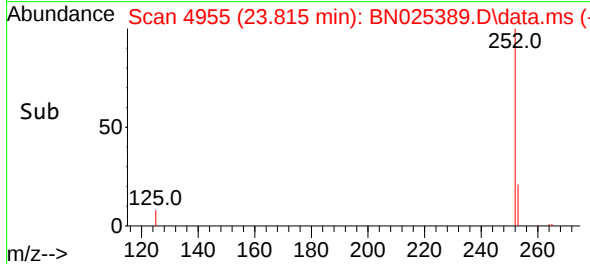
Instrument :  
BNA\_N  
ClientSampleId :  
EW975DL



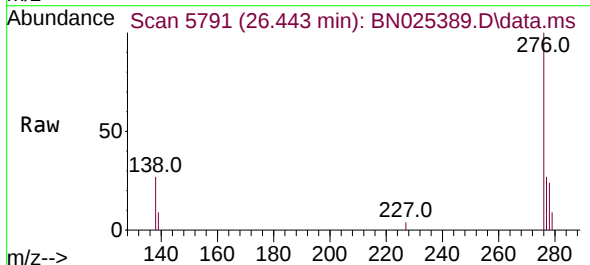
Tgt Ion:252 Resp: 329519  
Ion Ratio Lower Upper  
252 100  
253 24.9 21.4 32.2  
125 17.0 14.6 22.0

Manual Integrations  
APPROVED

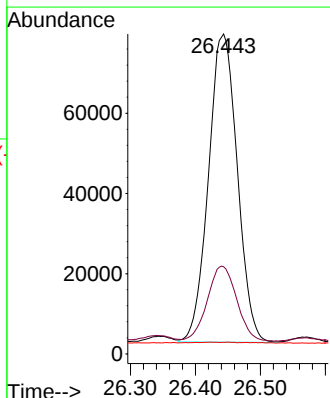
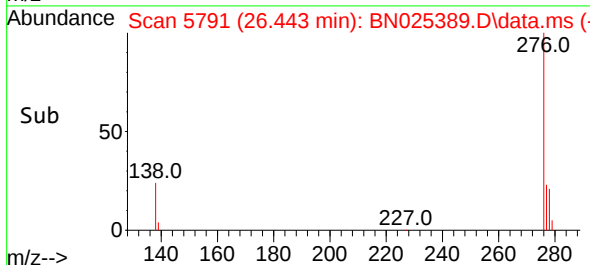
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

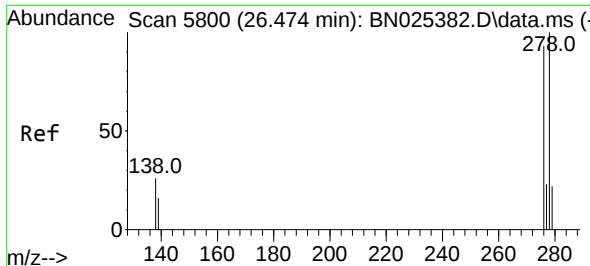


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.736 ng/ul  
RT: 26.443 min Scan# 5791  
Delta R.T. -0.014 min  
Lab File: BN025389.D  
Acq: 10 May 2023 20:19



Tgt Ion:276 Resp: 236890  
Ion Ratio Lower Upper  
276 100  
138 24.7 21.9 32.9  
227 0.0 0.1 0.1#





#28

Dibenzo(a,h)anthracene

Concen: 0.929 ng/ul

RT: 26.443 min Scan# 51

Delta R.T. -0.031 min

Lab File: BN025389.D

Acq: 10 May 2023 20:19

Instrument :

BNA\_N

ClientSampleId :

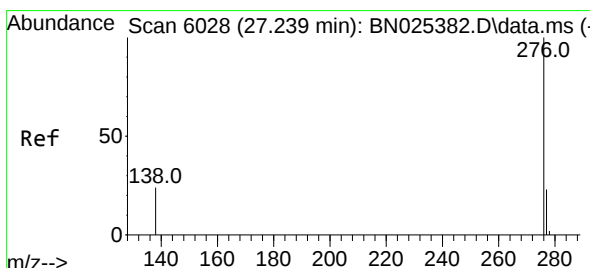
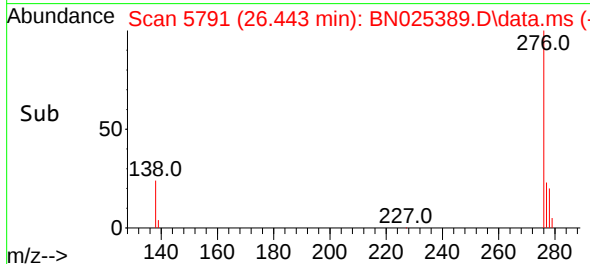
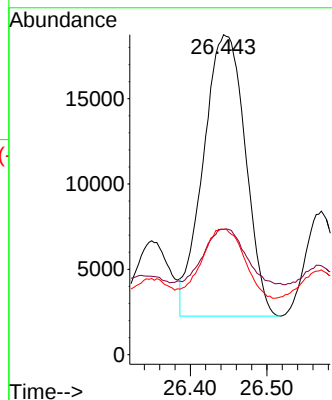
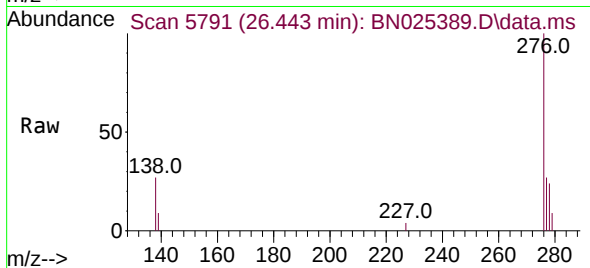
EW975DL

Tgt Ion:278 Resp: 6285  
 Ion Ratio Lower Upper  
 278 100  
 139 39.2 17.0 25.6  
 279 39.1 21.8 32.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/11/2023  
 Supervised By :Jagrut Upadhyay 05/11/2023



#29

Benzo(g,h,i)perylene

Concen: 3.147 ng/ul

RT: 27.225 min Scan# 6024

Delta R.T. -0.014 min

Lab File: BN025389.D

Acq: 10 May 2023 20:19

Tgt Ion:276 Resp: 231686  
 Ion Ratio Lower Upper  
 276 100  
 138 28.1 20.3 30.5  
 277 26.9 19.8 29.6

