

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051023\  
 Data File : BN025386.D  
 Acq On : 10 May 2023 18:31  
 Operator : CG/JU  
 Sample : 02479-21MS  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW975MS

Quant Time: May 11 02:21:08 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  | 7272     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.710 | 136  | 23508    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.548 | 164  | 15032    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.297 | 188  | 31968    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.495 | 240  | 21427    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.930 | 264  | 21176    | 0.400  | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.280  | 96   | 1086     | 0.144  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.299 | 152  | 3938     | 0.130  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.332 | 212  | 9530     | 0.169  | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane              | 3.314  | 88   | 2930     | 0.361  | ng/ul# | 46       |
| 5) Naphthalene              | 10.759 | 128  | 155511   | 2.582  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.376 | 142  | 198870   | 5.390  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.596 | 142  | 99370    | 2.527  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.270 | 152  | 54913    | 0.981  | ng/ul# | 94       |
| 11) Acenaphthene            | 14.613 | 153  | 52085    | 1.103  | ng/ul  | 98       |
| 12) Fluorene                | 15.598 | 166  | 55068    | 1.044  | ng/ul# | 97       |
| 14) Pentachlorophenol       | 16.959 | 266  | 1776     | 0.283  | ng/ul  | 96       |
| 15) Phenanthrene            | 17.343 | 178  | 1021586  | 11.322 | ng/ul  | 100      |
| 16) Anthracene              | 17.432 | 178  | 229739   | 3.112  | ng/ul  | 100      |
| 19) Fluoranthene            | 19.360 | 202  | 1848600  | 23.858 | ng/ul  | 98       |
| 20) Pyrene                  | 19.727 | 202  | 1598539  | 20.079 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.477 | 228  | 702104   | 10.874 | ng/ul  | 97       |
| 22) Chrysene                | 21.530 | 228  | 715501   | 10.158 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.187 | 252  | 894858m  | 10.416 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.231 | 252  | 326222m  | 3.948  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.824 | 252  | 630149   | 8.865  | ng/ul  | 95       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.475 | 276  | 461162   | 5.631  | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 26.478 | 278  | 128083   | 2.002  | ng/ul# | 82       |
| 29) Benzo(g,h,i)perylene    | 27.266 | 276  | 422278   | 6.064  | ng/ul  | 97       |

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

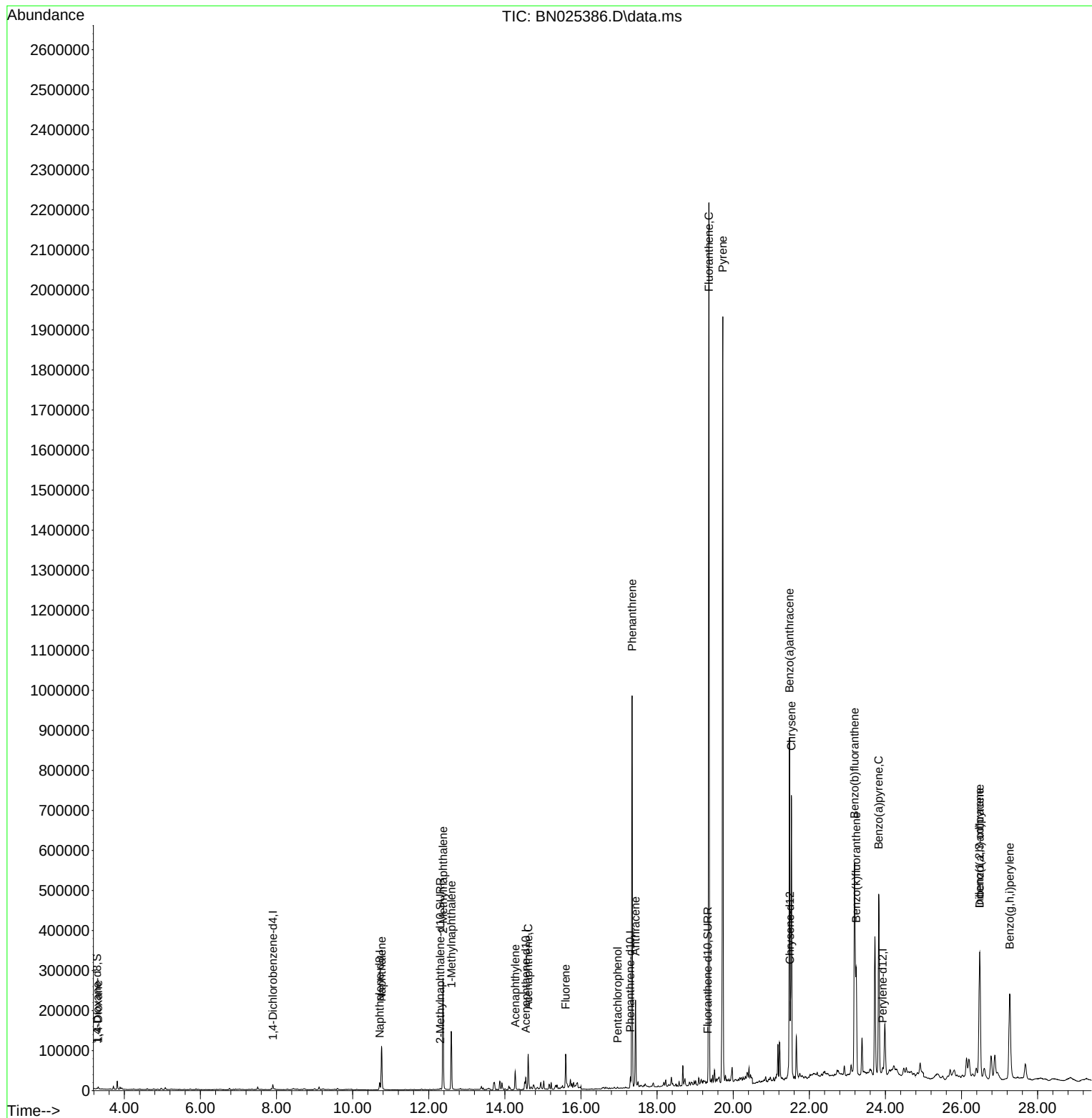
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051023\  
Data File : BN025386.D  
Acq On : 10 May 2023 18:31  
Operator : CG/JU  
Sample : 02479-21MS  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

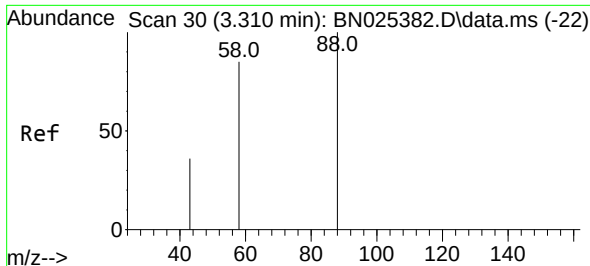
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS

Quant Time: May 11 02:21:08 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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APPROVED

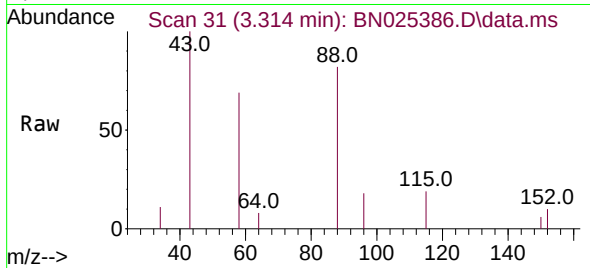
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023





#2  
1,4-Dioxane  
Concen: 0.361 ng/ul  
RT: 3.314 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

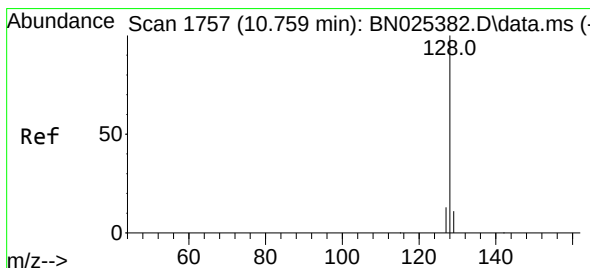
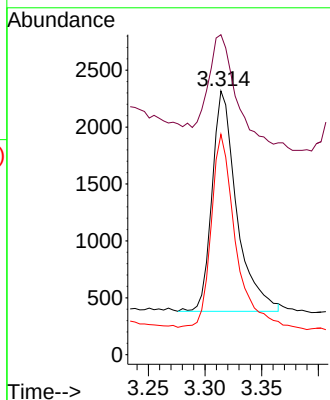
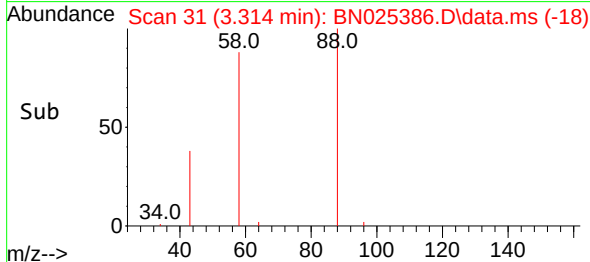
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



Tgt Ion: 88 Resp: 2930  
Ion Ratio Lower Upper  
88 100  
43 121.4 37.0 55.4  
58 83.6 56.9 85.3

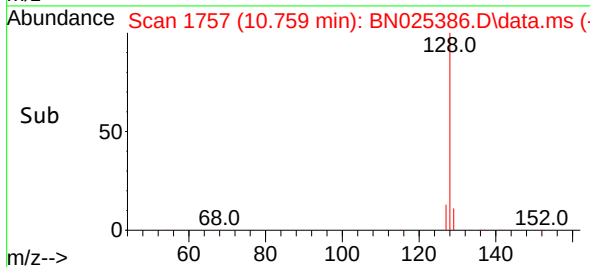
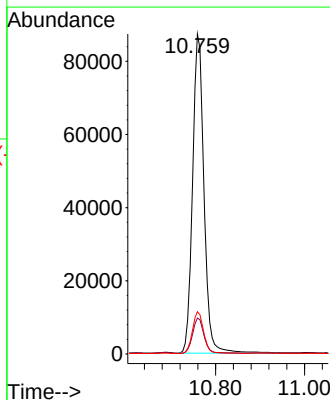
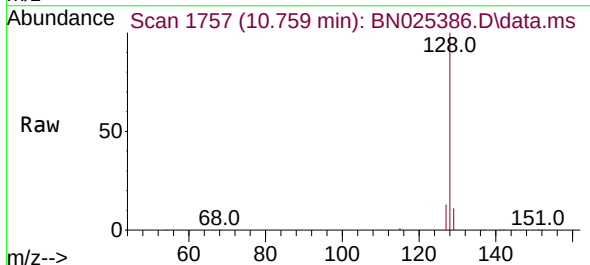
Manual Integrations  
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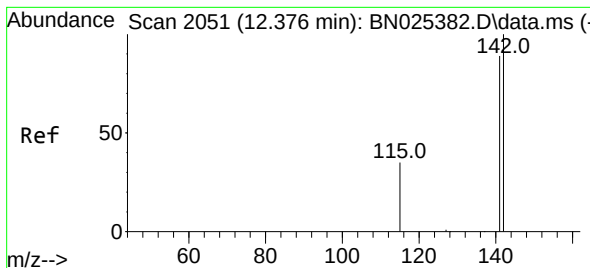
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#5  
Naphthalene  
Concen: 2.582 ng/ul  
RT: 10.759 min Scan# 1757  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

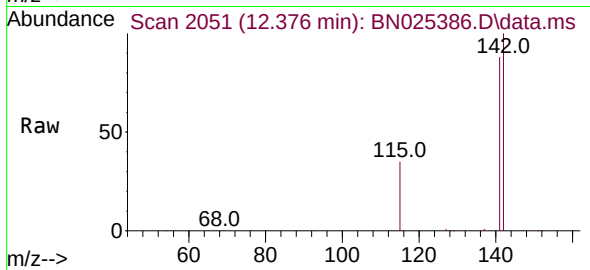
Tgt Ion:128 Resp: 155511  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.0 13.6  
127 13.2 10.7 16.1





#7  
2-Methylnaphthalene  
Concen: 5.390 ng/ul  
RT: 12.376 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

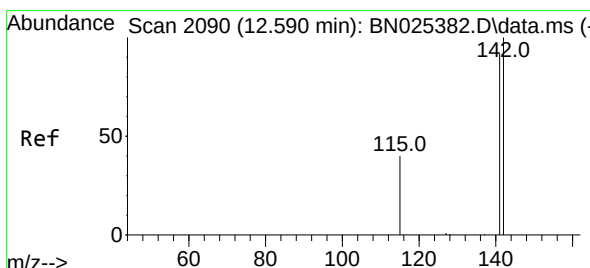
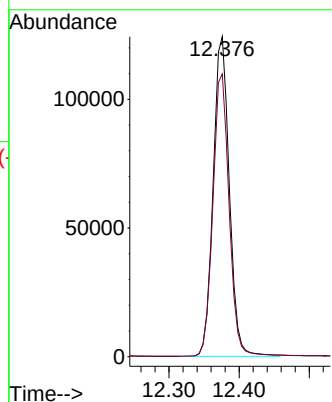
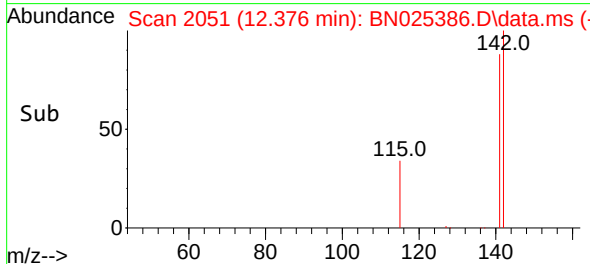
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



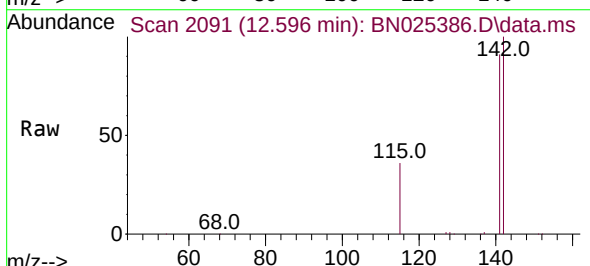
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Ion Ratio Lower Upper  
142 100  
141 88.7 71.4 107.0

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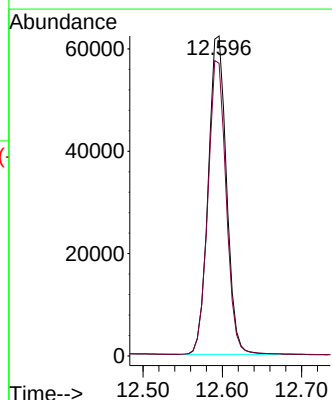
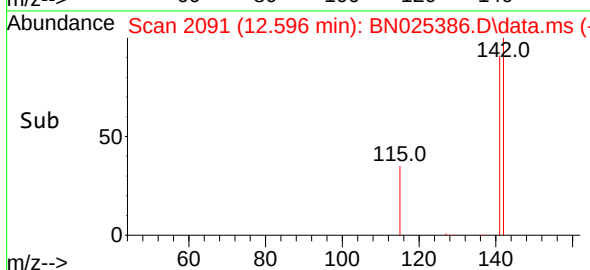
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

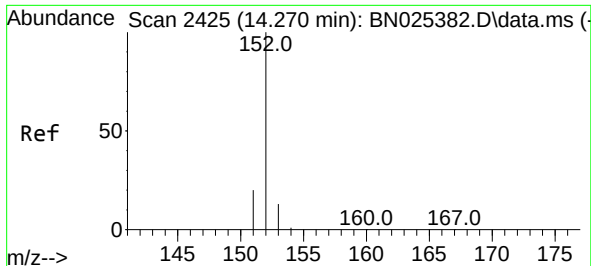


#8  
1-Methylnaphthalene  
Concen: 2.527 ng/ul  
RT: 12.596 min Scan# 2091  
Delta R.T. 0.006 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31



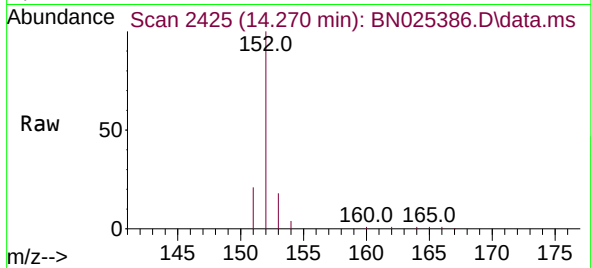
Tgt Ion:142 Resp: 99370  
Ion Ratio Lower Upper  
142 100  
141 92.0 73.8 110.6





#10  
Acenaphthylene  
Concen: 0.981 ng/ul  
RT: 14.270 min Scan# 2425  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

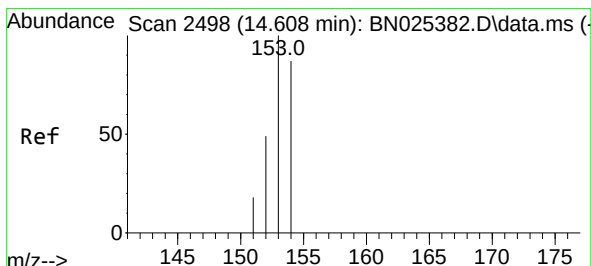
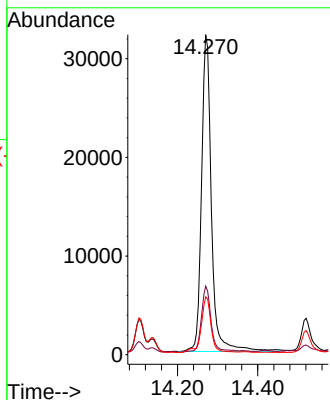
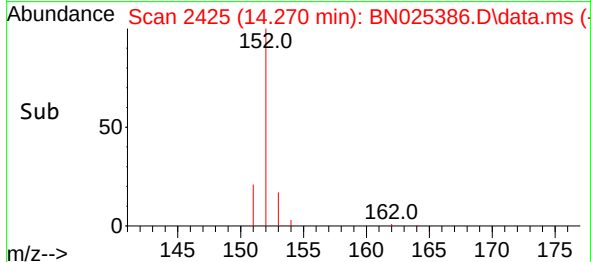
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ClientSampleId :  
EW975MS



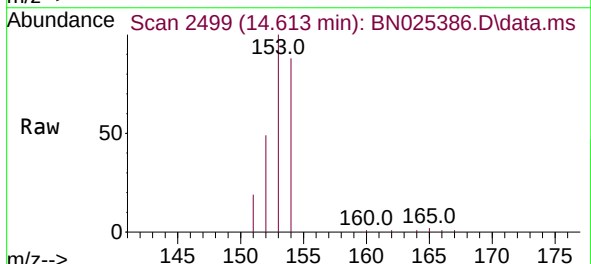
Tgt Ion:152 Resp: 5491  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.0 24.0  
153 18.1 10.8 16.2

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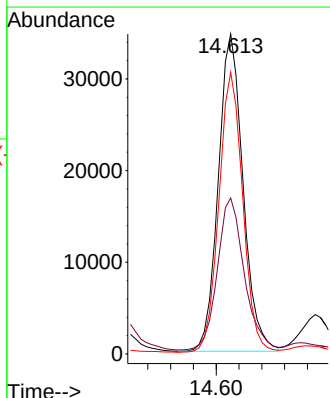
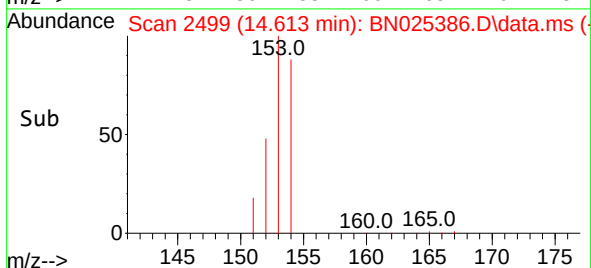
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

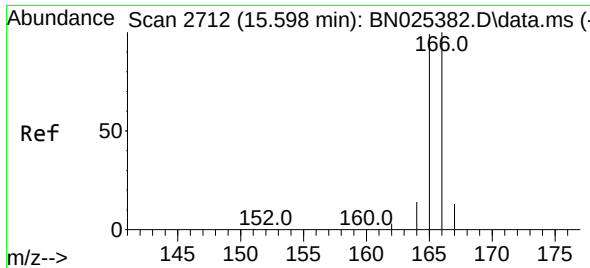


#11  
Acenaphthene  
Concen: 1.103 ng/ul  
RT: 14.613 min Scan# 2499  
Delta R.T. 0.005 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31



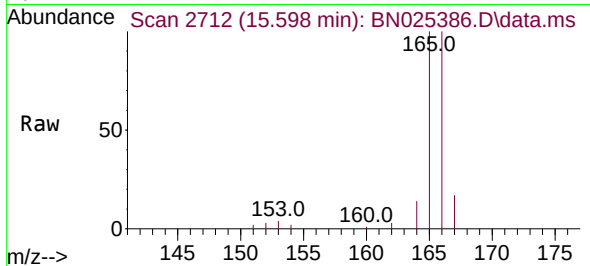
Tgt Ion:153 Resp: 52085  
Ion Ratio Lower Upper  
153 100  
152 48.8 40.2 60.4  
154 88.0 69.4 104.2





#12  
Fluorene  
Concen: 1.044 ng/ul  
RT: 15.598 min Scan# 2712  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

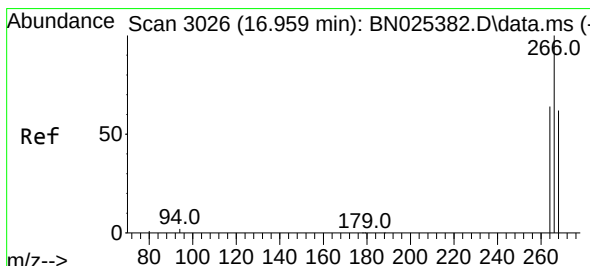
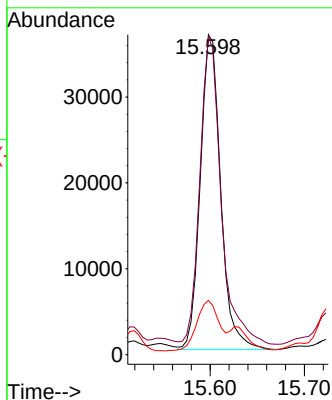
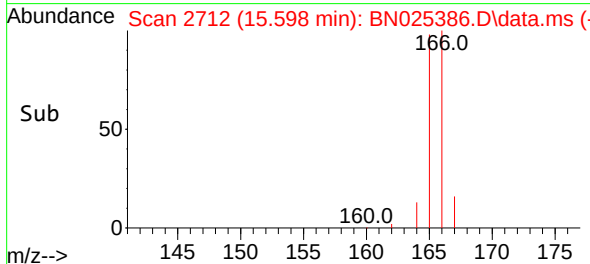
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



Tgt Ion:166 Resp: 5506  
Ion Ratio Lower Upper  
166 100  
165 99.6 78.1 117.1  
167 17.0 11.0 16.6

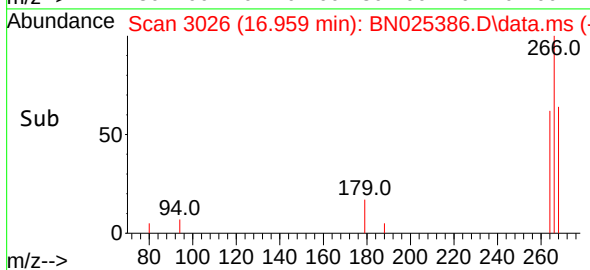
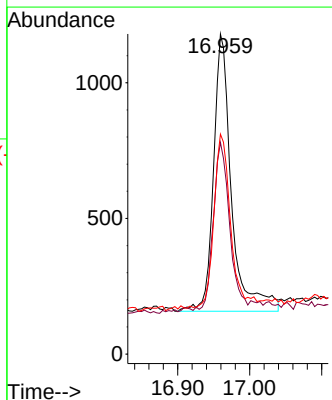
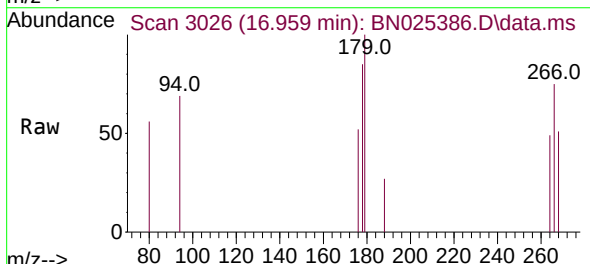
Manual Integrations  
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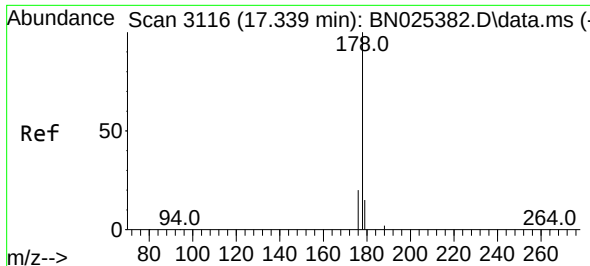
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#14  
Pentachlorophenol  
Concen: 0.283 ng/ul  
RT: 16.959 min Scan# 3026  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

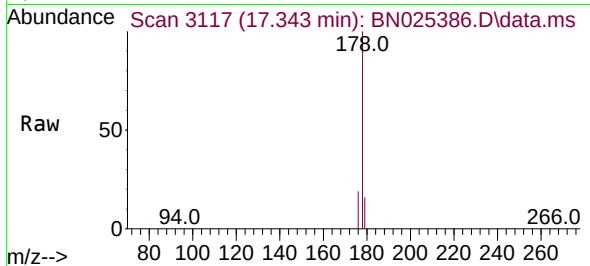
Tgt Ion:266 Resp: 1776  
Ion Ratio Lower Upper  
266 100  
264 59.3 49.6 74.4  
268 61.3 51.3 76.9





#15  
Phenanthrene  
Concen: 11.322 ng/ul  
RT: 17.343 min Scan# 3116  
Delta R.T. 0.004 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

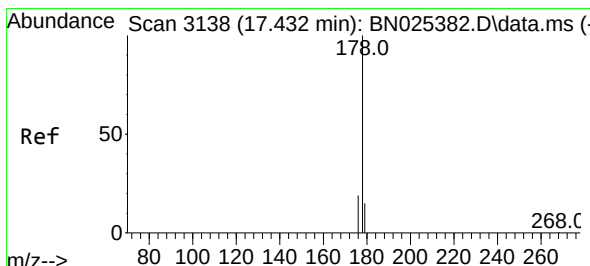
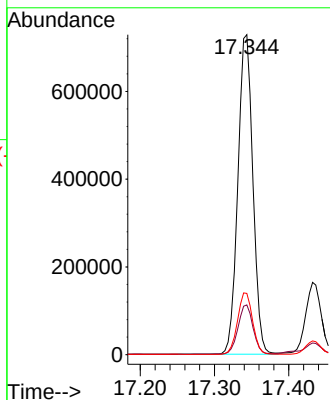
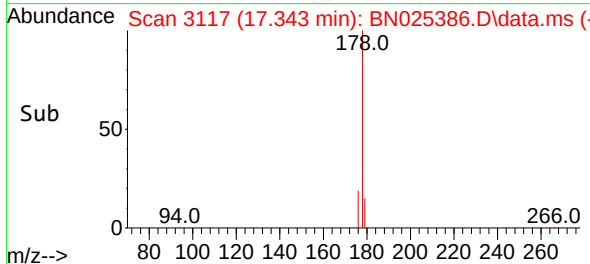
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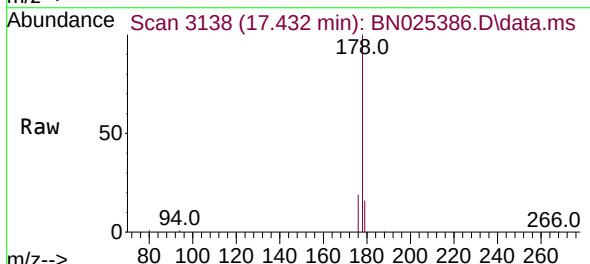
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Ion Ratio Lower Upper  
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176 19.2 15.6 23.4

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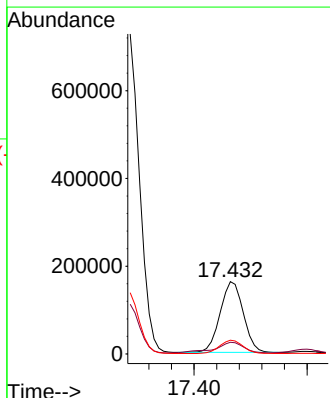
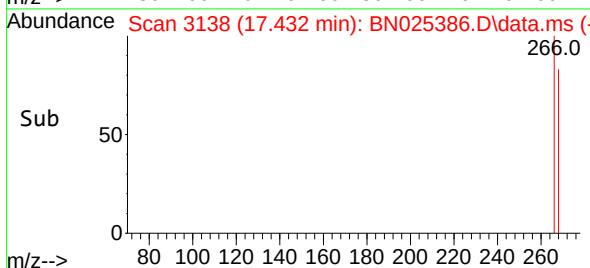
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023

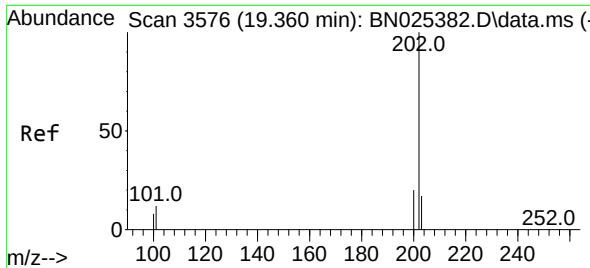


#16  
Anthracene  
Concen: 3.112 ng/ul  
RT: 17.432 min Scan# 3138  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31



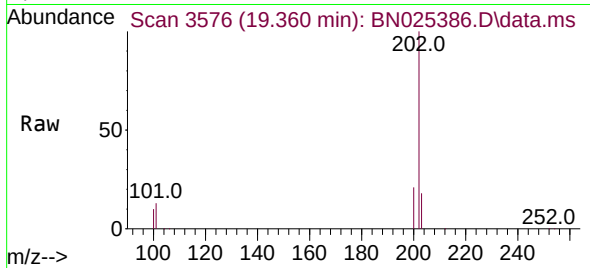
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Ion Ratio Lower Upper  
178 100  
179 16.2 12.7 19.1  
176 19.0 15.3 22.9





#19  
Fluoranthene  
Concen: 23.858 ng/u1  
RT: 19.360 min Scan# 3576  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

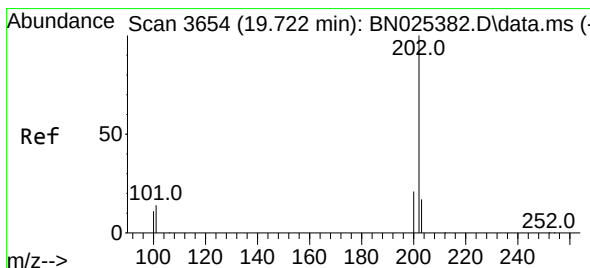
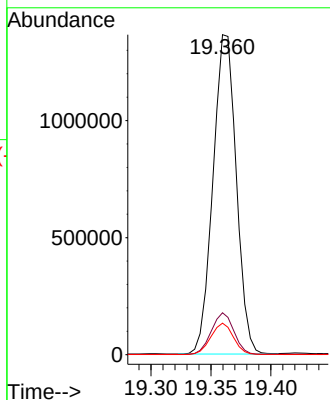
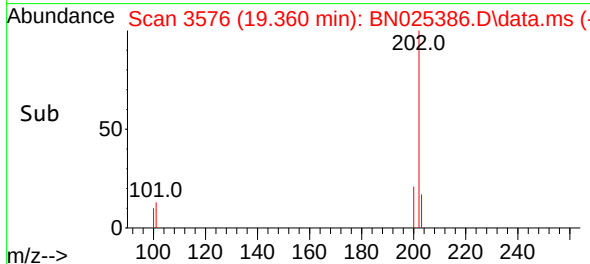
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



Tgt Ion:202 Resp: 1848600  
Ion Ratio Lower Upper  
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101 13.1 9.7 14.5  
100 9.9 7.3 10.9

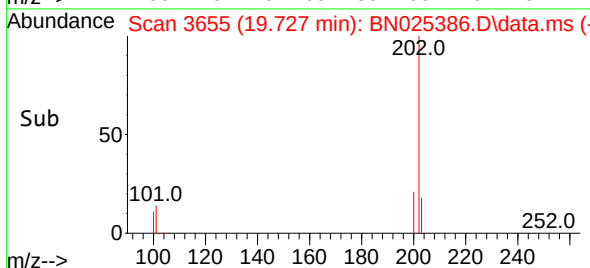
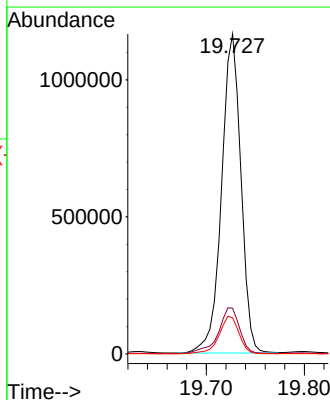
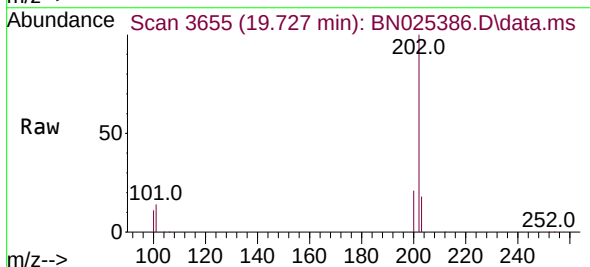
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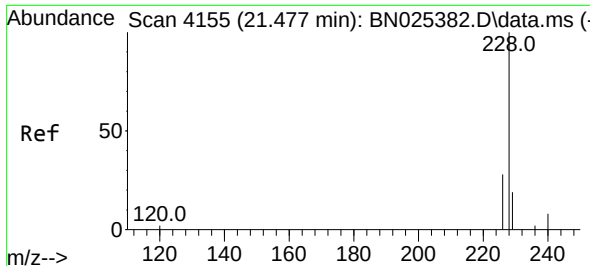


#20  
Pyrene  
Concen: 20.079 ng/u1  
RT: 19.727 min Scan# 3655  
Delta R.T. 0.005 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

Tgt Ion:202 Resp: 1598539  
Ion Ratio Lower Upper  
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101 14.3 11.3 16.9  
100 11.3 9.2 13.8

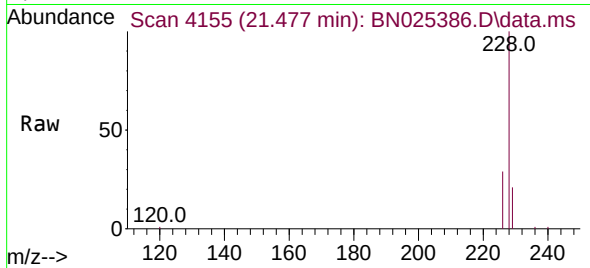






#21  
Benzo(a)anthracene  
Concen: 10.874 ng/u1  
RT: 21.477 min Scan# 4155  
Delta R.T. 0.000 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

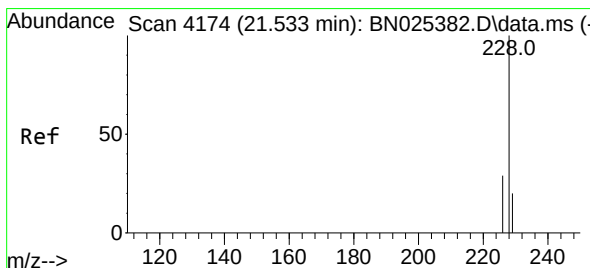
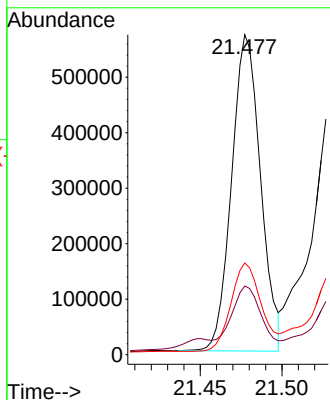
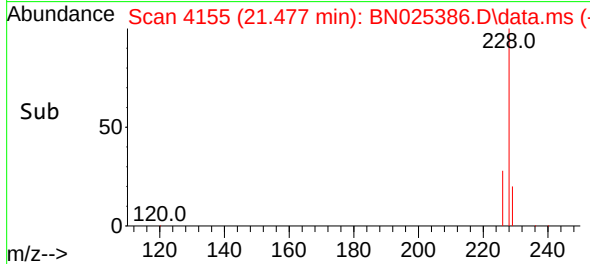
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



Tgt Ion:228 Resp: 702104  
Ion Ratio Lower Upper  
228 100  
229 21.5 15.6 23.4  
226 28.7 22.1 33.1

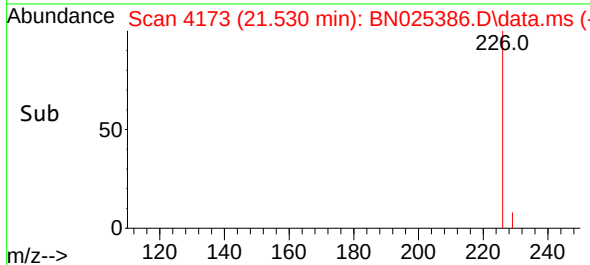
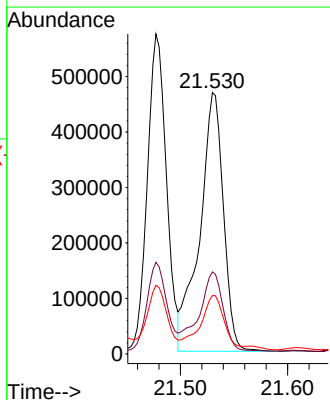
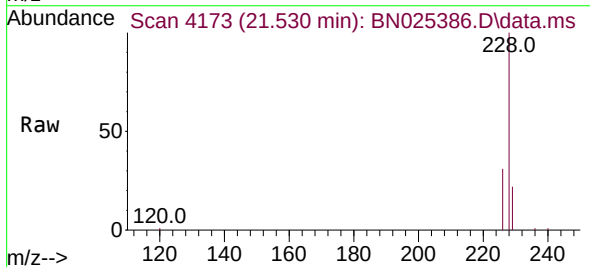
Manual Integrations  
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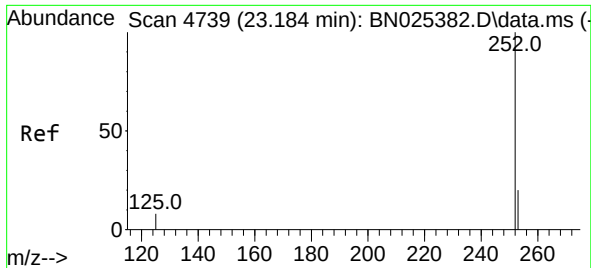
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#22  
Chrysene  
Concen: 10.158 ng/u1  
RT: 21.530 min Scan# 4173  
Delta R.T. -0.003 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

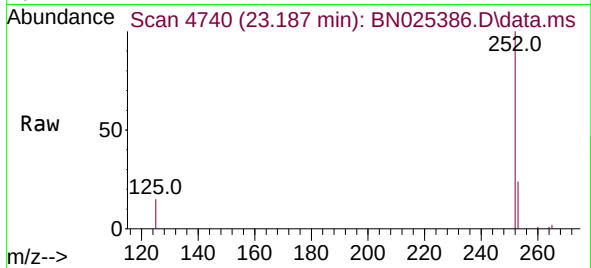
Tgt Ion:228 Resp: 715501  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.5 36.7  
229 22.4 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 10.416 ng/ul m  
RT: 23.187 min Scan# 4739  
Delta R.T. 0.003 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

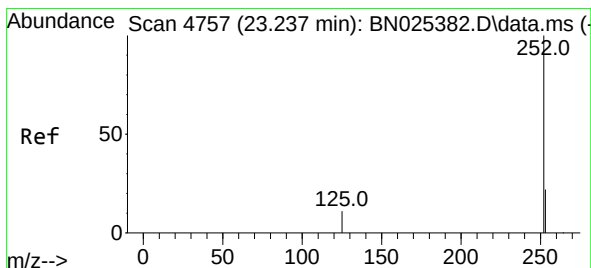
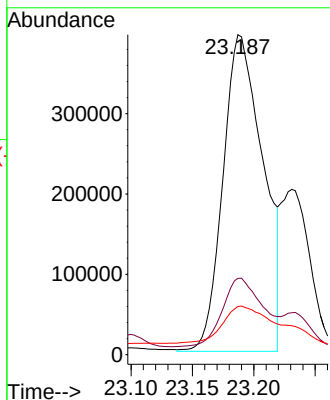
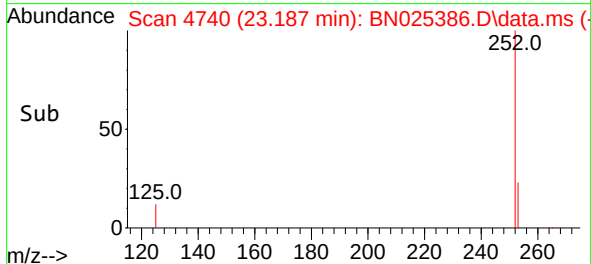
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



Tgt Ion:252 Resp: 894858  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 50.2  
125 15.0 0.0 30.4

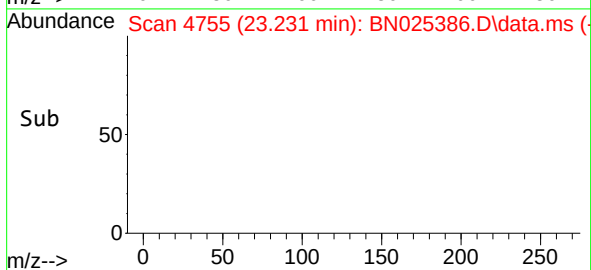
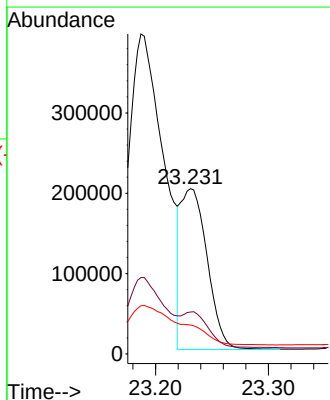
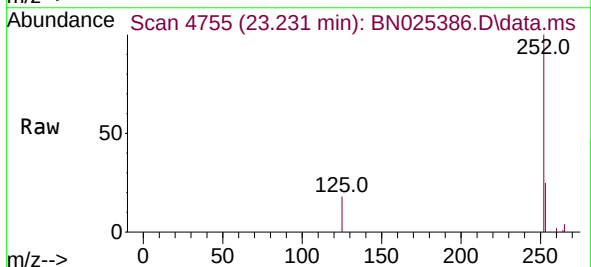
Manual Integrations  
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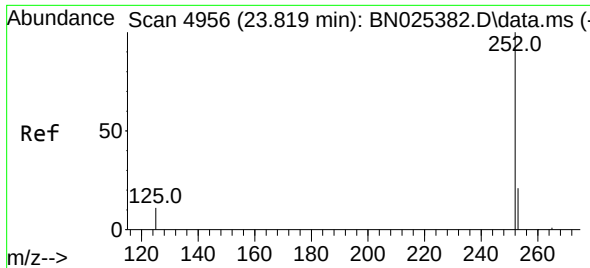
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#25  
Benzo(k)fluoranthene  
Concen: 3.948 ng/ul m  
RT: 23.231 min Scan# 4755  
Delta R.T. -0.006 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

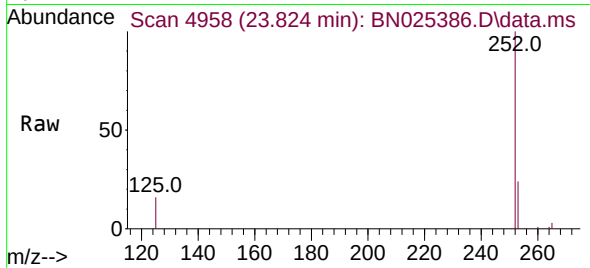
Tgt Ion:252 Resp: 326222  
Ion Ratio Lower Upper  
252 100  
253 25.4 20.2 30.4  
125 17.5 11.8 17.8





#26  
Benzo(a)pyrene  
Concen: 8.865 ng/ul  
RT: 23.824 min Scan# 4956  
Delta R.T. 0.006 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

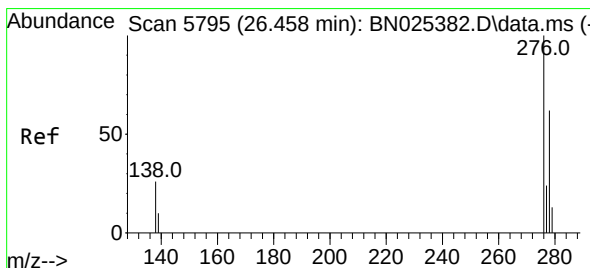
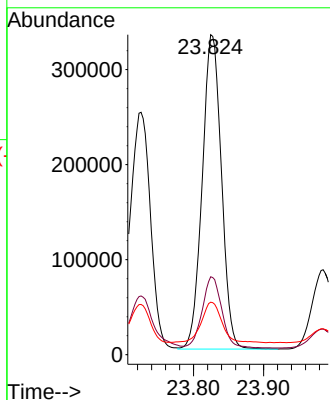
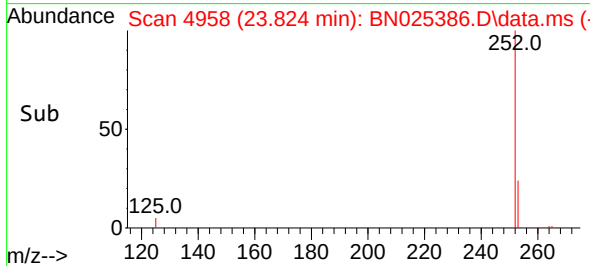
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



Tgt Ion:252 Resp: 630149  
Ion Ratio Lower Upper  
252 100  
253 24.3 21.4 32.2  
125 16.4 14.6 22.0

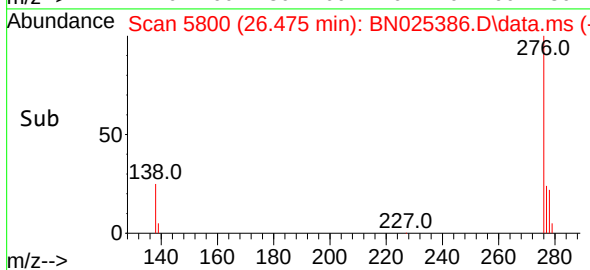
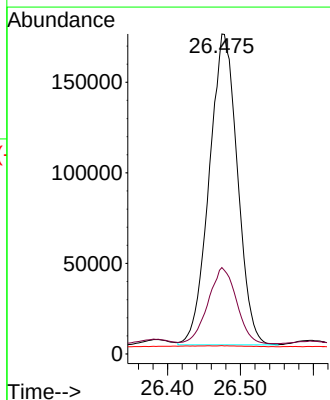
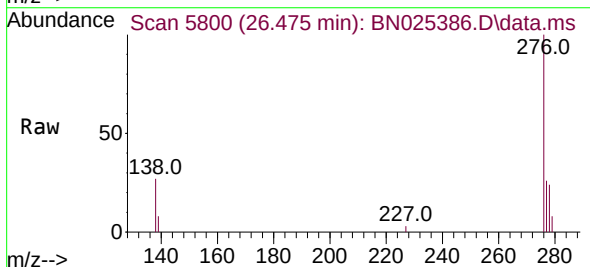
Manual Integrations  
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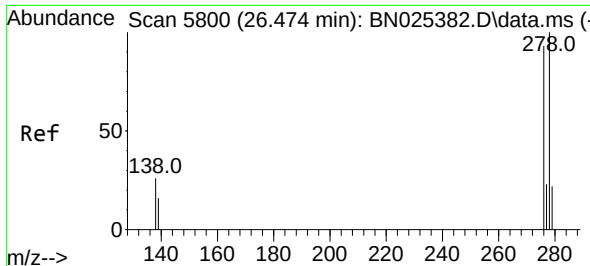
Reviewed By :Christian Giraldo 05/11/2023  
Supervised By :Jagrut Upadhyay 05/11/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 5.631 ng/ul  
RT: 26.475 min Scan# 5800  
Delta R.T. 0.017 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

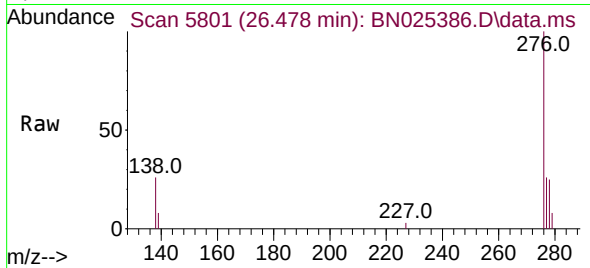
Tgt Ion:276 Resp: 461162  
Ion Ratio Lower Upper  
276 100  
138 24.7 21.9 32.9  
227 0.3 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 2.002 ng/ul  
RT: 26.478 min Scan# 5800  
Delta R.T. 0.003 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31

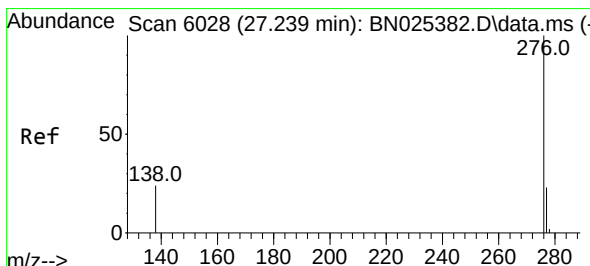
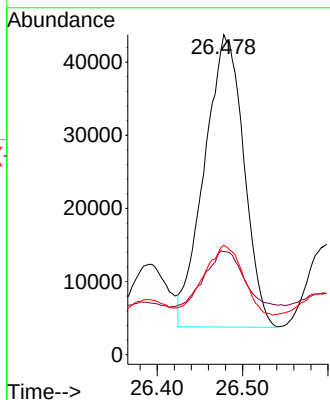
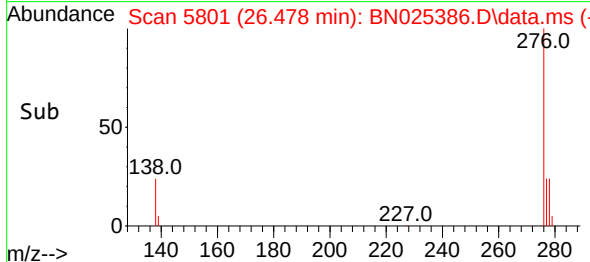
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MS



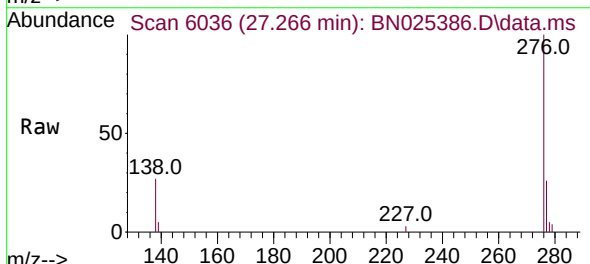
Tgt Ion:278 Resp: 128083  
Ion Ratio Lower Upper  
278 100  
139 32.2 17.0 25.6  
279 34.2 21.8 32.8

Manual Integrations  
APPROVED

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



#29  
Benzo(g,h,i)perylene  
Concen: 6.064 ng/ul  
RT: 27.266 min Scan# 6036  
Delta R.T. 0.027 min  
Lab File: BN025386.D  
Acq: 10 May 2023 18:31



Tgt Ion:276 Resp: 422278  
Ion Ratio Lower Upper  
276 100  
138 27.3 20.3 30.5  
277 26.3 19.8 29.6

