

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050223\  
 Data File : BN025220.D  
 Acq On : 02 May 2023 15:00  
 Operator : CG/JU  
 Sample : 02419-34  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW929

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/03/2023  
 Supervised By : Jagrut Upadhyay 05/03/2023

Quant Time: May 03 02:29:27 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 : Tue May 02 16:21:17 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.913  | 152  | 7759     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.721 | 136  | 27722    | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.562 | 164  | 17806    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.310 | 188  | 57477    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.503 | 240  | 31516    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.947 | 264  | 26266    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.293  | 96   | 17699    | 2.203  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.310 | 152  | 6829     | 0.192  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.341 | 212  | 16414    | 0.197  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.770 | 128  | 23865    | 0.336  | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.387 | 142  | 19397    | 0.446  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.601 | 142  | 13094    | 0.282  | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.279 | 152  | 38049    | 0.574  | ng/ul  | 94       |
| 11) Acenaphthene            | 14.622 | 153  | 13014    | 0.233  | ng/ul  | 99       |
| 12) Fluorene                | 15.607 | 166  | 18155    | 0.290  | ng/ul# | 90       |
| 14) Pentachlorophenol       | 16.963 | 266  | 416      | 0.037  | ng/ul  | 89       |
| 15) Phenanthrene            | 17.352 | 178  | 349636   | 2.155  | ng/ul  | 99       |
| 16) Anthracene              | 17.440 | 178  | 83071    | 0.626  | ng/ul# | 94       |
| 19) Fluoranthene            | 19.369 | 202  | 902981   | 7.923  | ng/ul  | 99       |
| 20) Pyrene                  | 19.736 | 202  | 909315   | 7.766  | ng/ul  | 100      |
| 21) Benzo(a)anthracene      | 21.486 | 228  | 583838   | 6.148  | ng/ul  | 96       |
| 22) Chrysene                | 21.541 | 228  | 687230   | 6.634  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.204 | 252  | 1130378m | 10.607 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.248 | 252  | 400789m  | 3.910  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.845 | 252  | 697910   | 7.916  | ng/ul  | 94       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.498 | 276  | 733386   | 7.219  | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 26.508 | 278  | 173231   | 2.183  | ng/ul# | 89       |
| 29) Benzo(g,h,i)perylene    | 27.289 | 276  | 892636   | 10.334 | ng/ul  | 99       |

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

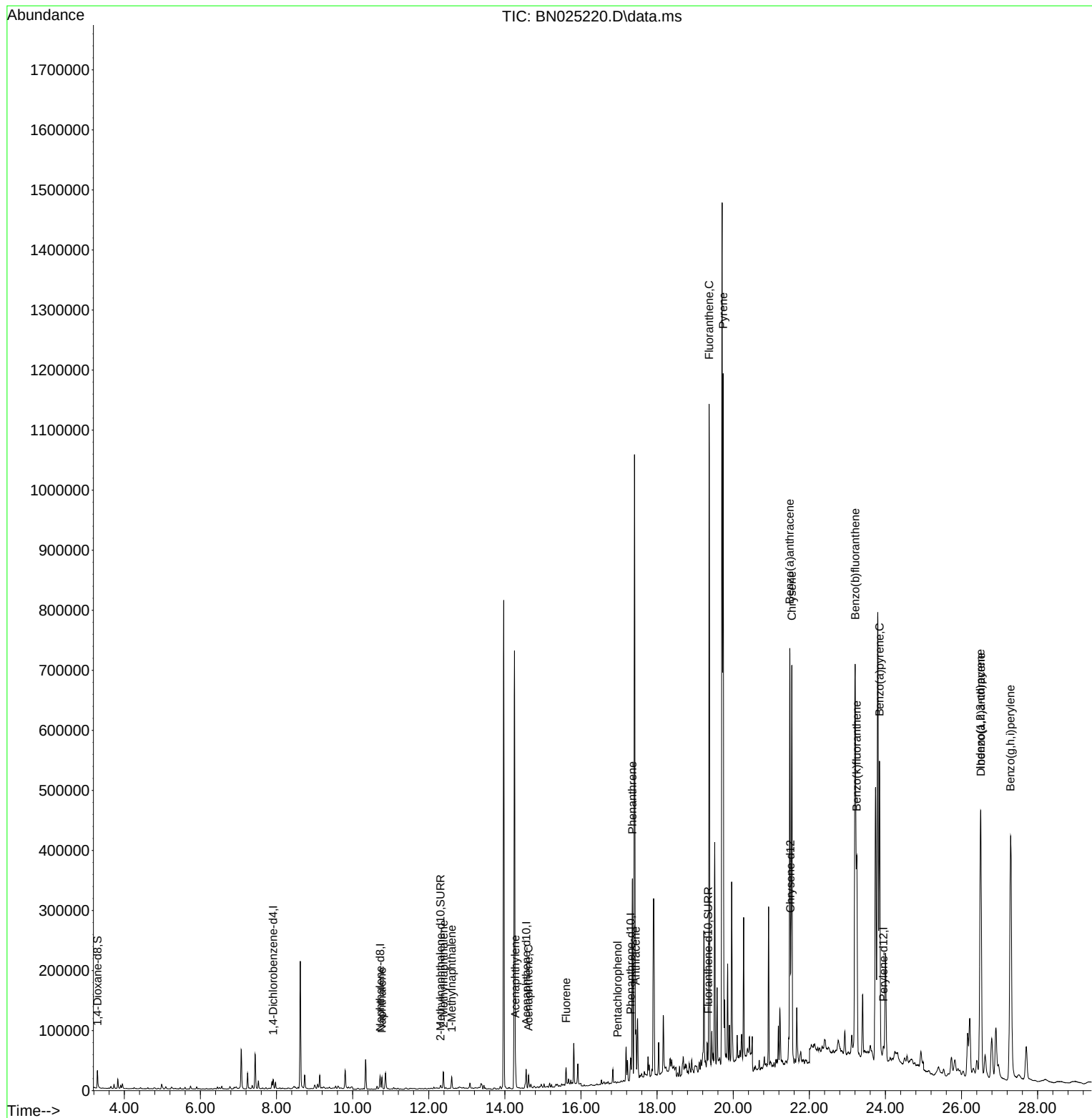
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050223\  
Data File : BN025220.D  
Acq On : 02 May 2023 15:00  
Operator : CG/JU  
Sample : 02419-34  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

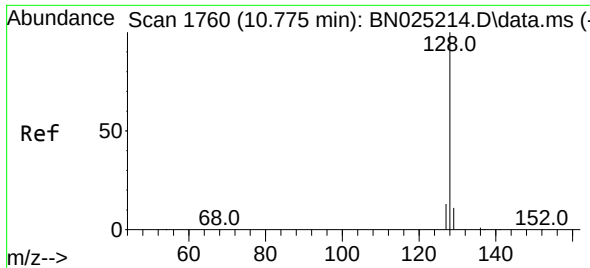
Instrument :  
BNA\_N  
ClientSampleId :  
EW929

Quant Time: May 03 02:29:27 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 : Tue May 02 16:21:17 2023  
Response via : Initial Calibration

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APPROVED

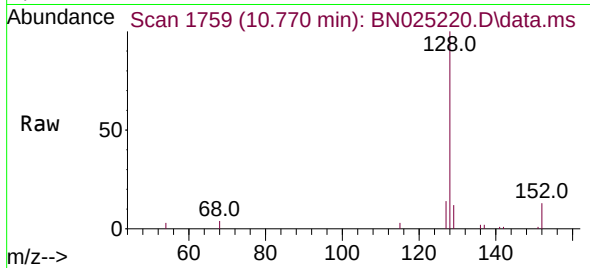
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023





#5  
Naphthalene  
Concen: 0.336 ng/ul  
RT: 10.770 min Scan# 1760  
Delta R.T. -0.005 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

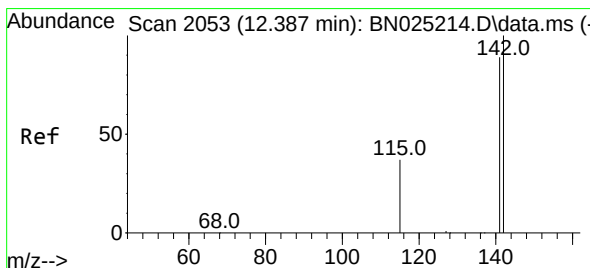
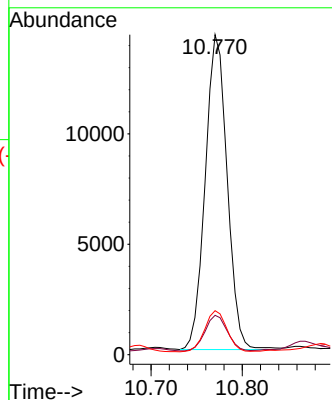
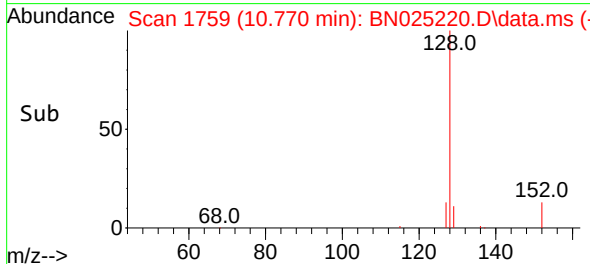
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



Tgt Ion:128 Resp: 2386  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.0 13.6  
127 13.7 10.7 16.1

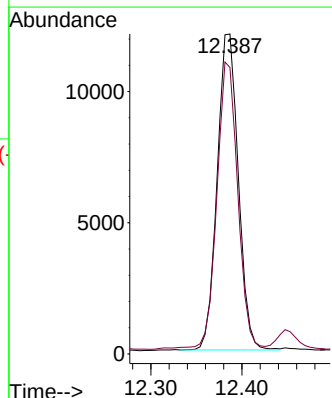
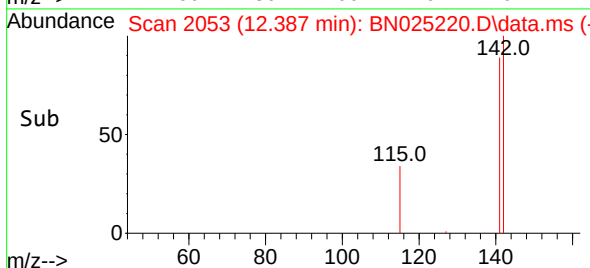
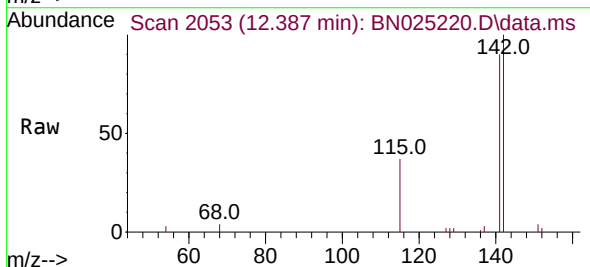
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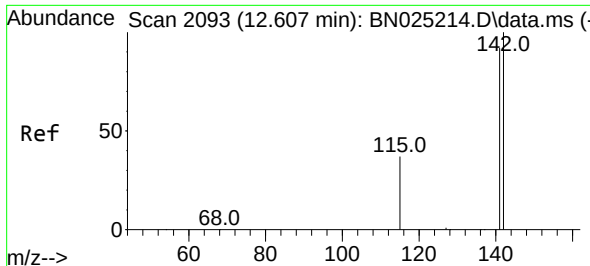
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023



#7  
2-Methylnaphthalene  
Concen: 0.446 ng/ul  
RT: 12.387 min Scan# 2053  
Delta R.T. 0.000 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

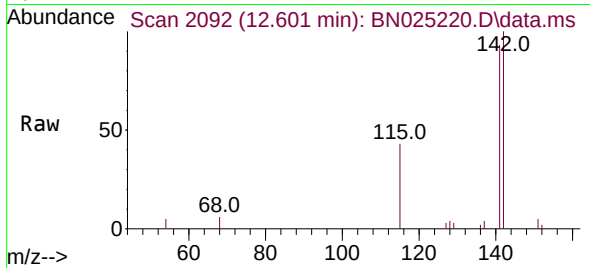
Tgt Ion:142 Resp: 19397  
Ion Ratio Lower Upper  
142 100  
141 90.3 71.4 107.0





#8  
1-Methylnaphthalene  
Concen: 0.282 ng/ul  
RT: 12.601 min Scan# 2094  
Delta R.T. -0.005 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

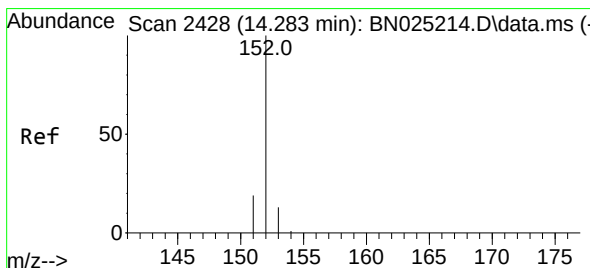
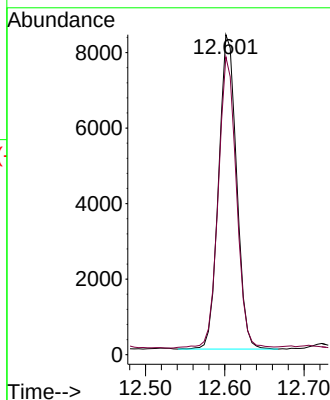
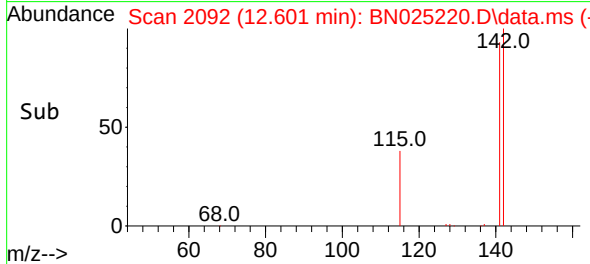
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



Tgt Ion:142 Resp: 13094  
Ion Ratio Lower Upper  
142 100  
141 93.7 73.8 110.6

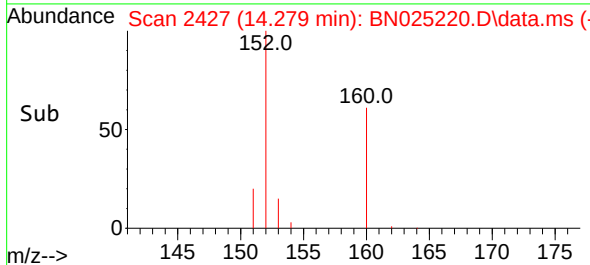
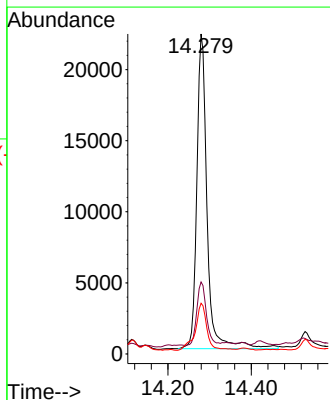
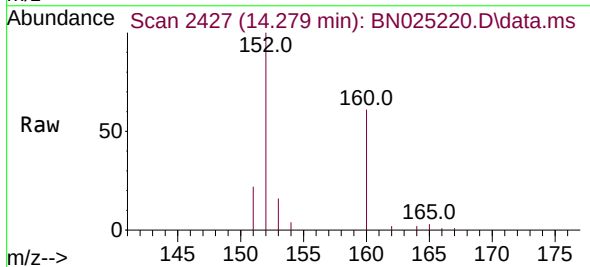
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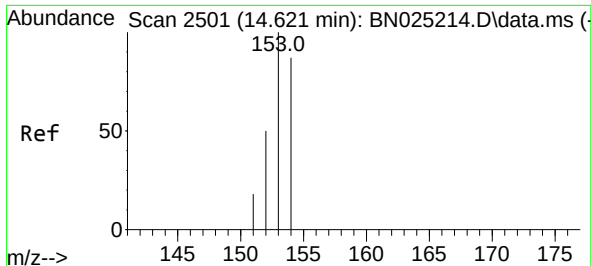
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023



#10  
Acenaphthylene  
Concen: 0.574 ng/ul  
RT: 14.279 min Scan# 2427  
Delta R.T. -0.004 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

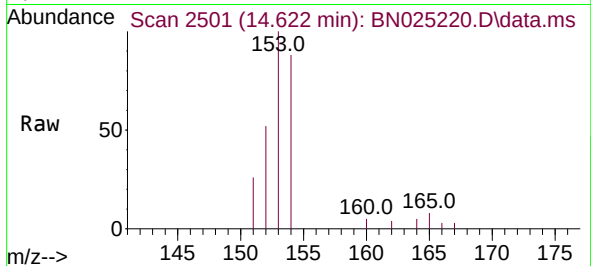
Tgt Ion:152 Resp: 38049  
Ion Ratio Lower Upper  
152 100  
151 22.5 16.0 24.0  
153 15.8 10.8 16.2





#11  
Acenaphthene  
Concen: 0.233 ng/u1  
RT: 14.622 min Scan# 2501  
Delta R.T. 0.001 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

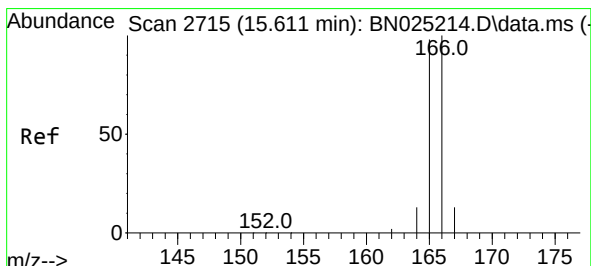
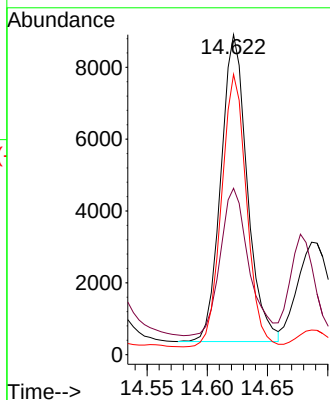
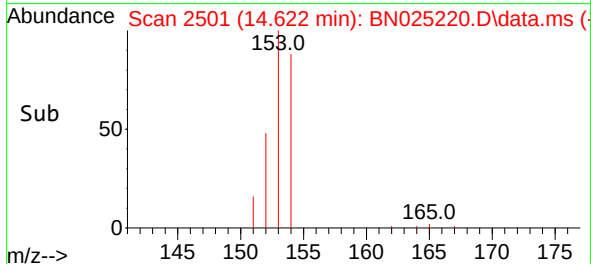
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



Tgt Ion:153 Resp: 13014  
Ion Ratio Lower Upper  
153 100  
152 52.0 40.2 60.4  
154 87.6 69.4 104.2

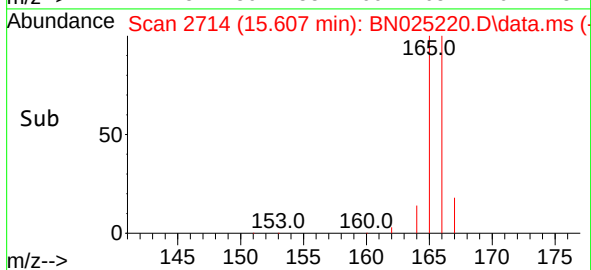
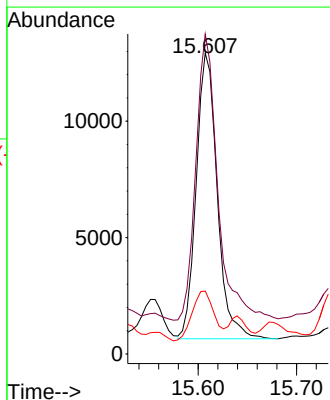
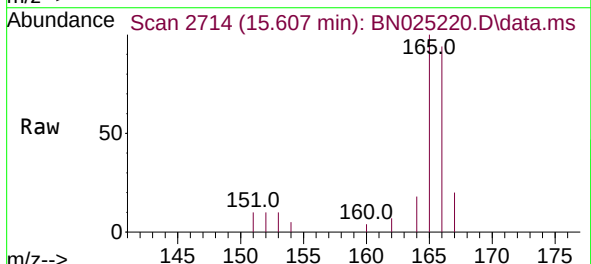
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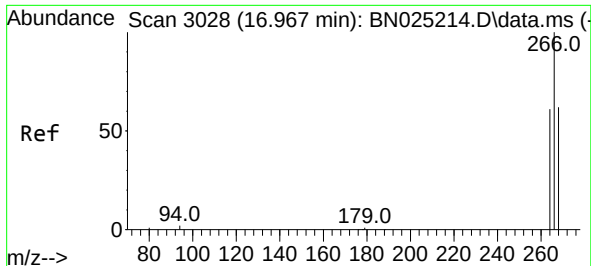
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023



#12  
Fluorene  
Concen: 0.290 ng/u1  
RT: 15.607 min Scan# 2714  
Delta R.T. -0.004 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

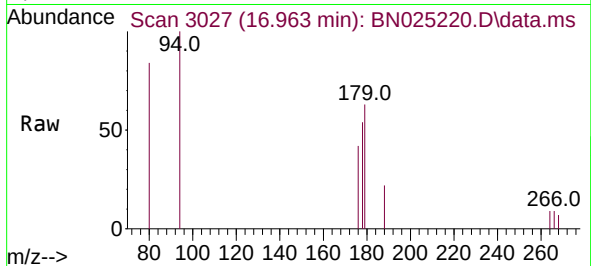
Tgt Ion:166 Resp: 18155  
Ion Ratio Lower Upper  
166 100  
165 106.3 78.1 117.1  
167 20.9 11.0 16.6#





#14  
Pentachlorophenol  
Concen: 0.037 ng/uI  
RT: 16.963 min Scan# 3028  
Delta R.T. -0.003 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

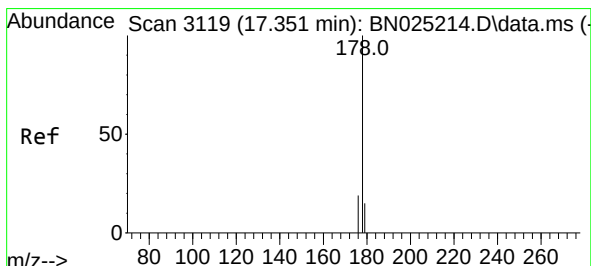
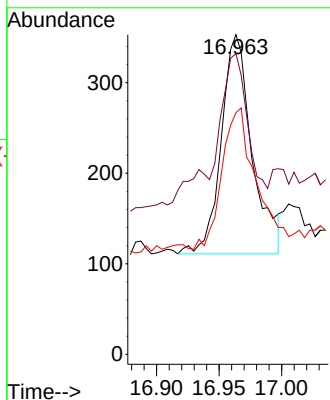
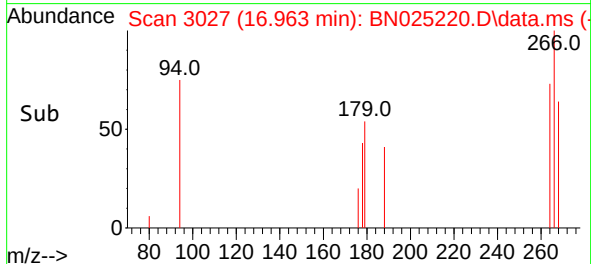
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



Tgt Ion:266 Resp: 410  
Ion Ratio Lower Upper  
266 100  
264 55.5 49.6 74.4  
268 74.3 51.3 76.9

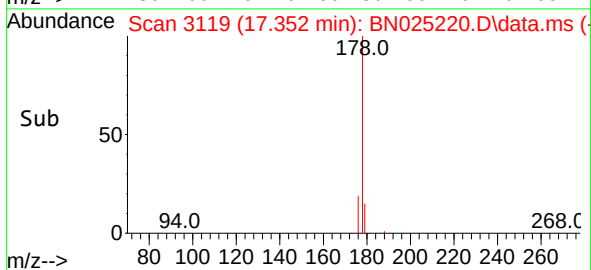
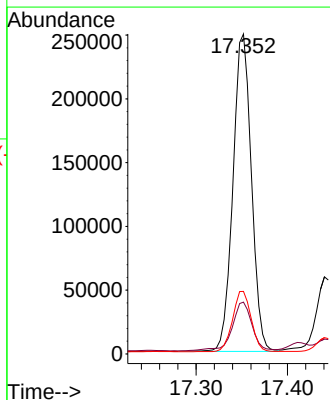
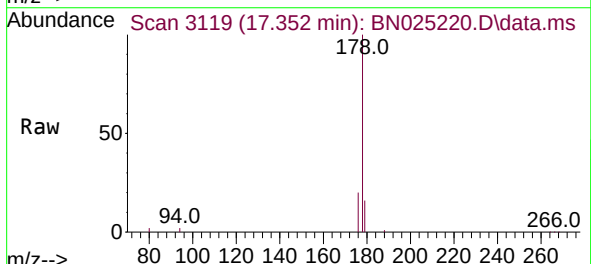
Manual Integrations  
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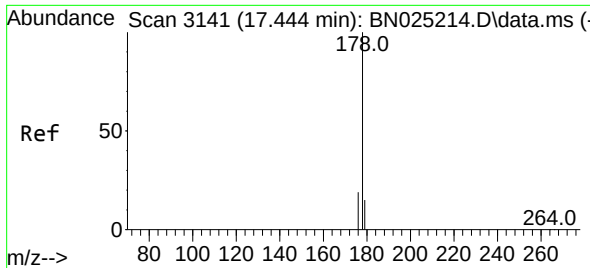
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023



#15  
Phenanthrene  
Concen: 2.155 ng/uI  
RT: 17.352 min Scan# 3119  
Delta R.T. 0.001 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

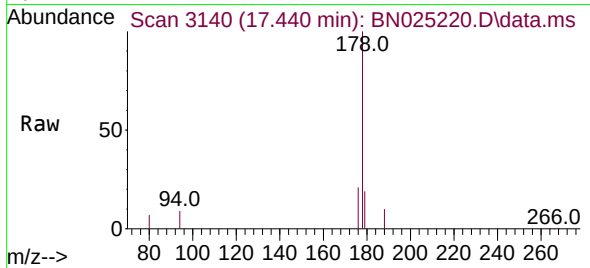
Tgt Ion:178 Resp: 349636  
Ion Ratio Lower Upper  
178 100  
179 16.2 12.5 18.7  
176 19.6 15.6 23.4





#16  
 Anthracene  
 Concen: 0.626 ng/ul  
 RT: 17.440 min Scan# 3141  
 Delta R.T. -0.003 min  
 Lab File: BN025220.D  
 Acq: 02 May 2023 15:00

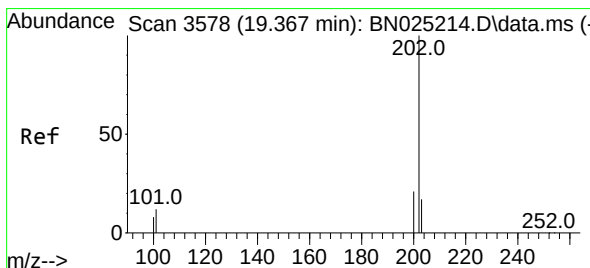
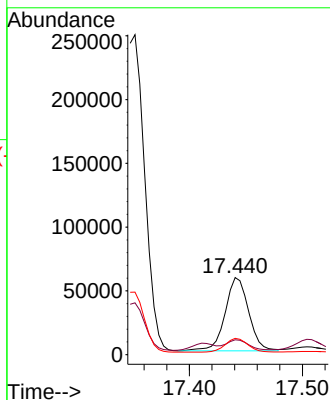
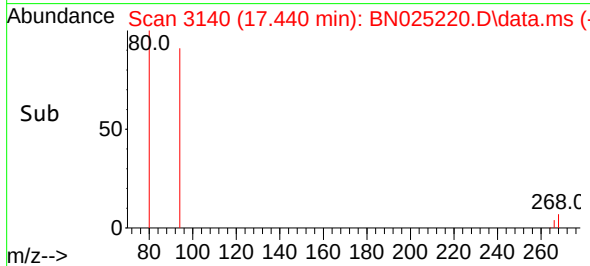
Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW929



Tgt Ion:178 Resp: 83072  
 Ion Ratio Lower Upper  
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 179 19.4 12.7 19.1  
 176 21.1 15.3 22.9

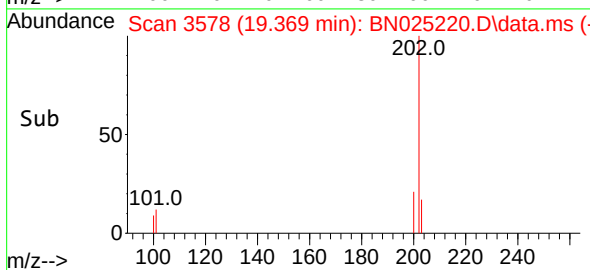
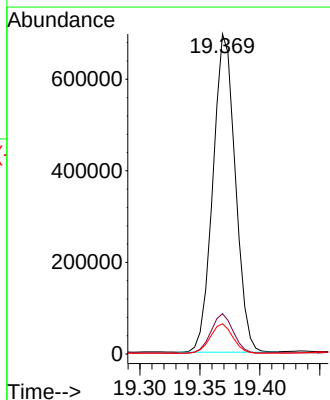
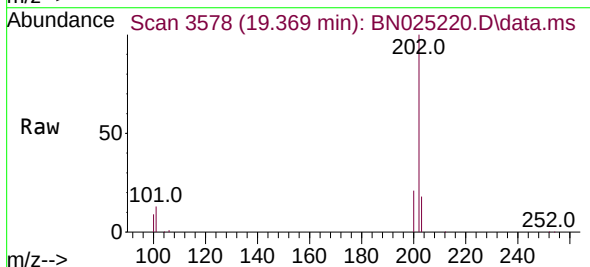
Manual Integrations  
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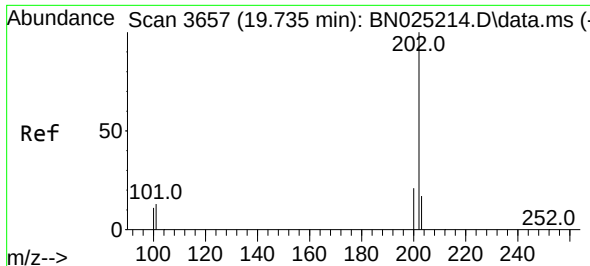
Reviewed By :Christian Giraldo 05/03/2023  
 Supervised By :Jagrut Upadhyay 05/03/2023



#19  
 Fluoranthene  
 Concen: 7.923 ng/ul  
 RT: 19.369 min Scan# 3578  
 Delta R.T. 0.001 min  
 Lab File: BN025220.D  
 Acq: 02 May 2023 15:00

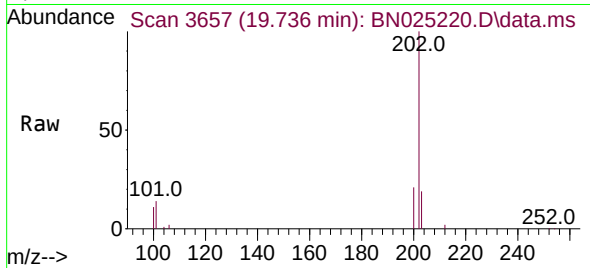
Tgt Ion:202 Resp: 902981  
 Ion Ratio Lower Upper  
 202 100  
 101 12.6 9.7 14.5  
 100 9.5 7.3 10.9





#20  
Pyrene  
Concen: 7.766 ng/ul  
RT: 19.736 min Scan# 3657  
Delta R.T. 0.001 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

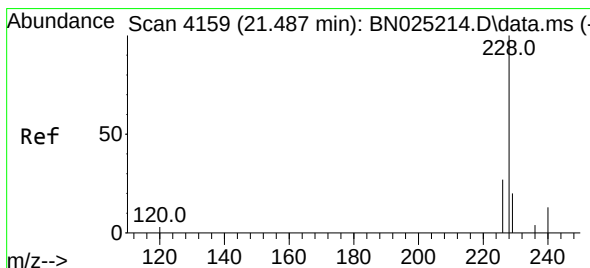
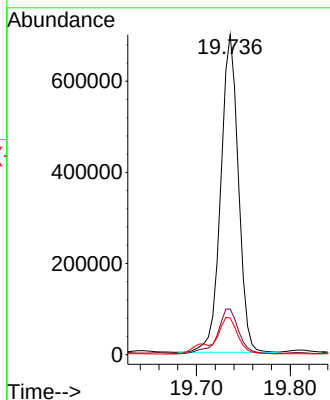
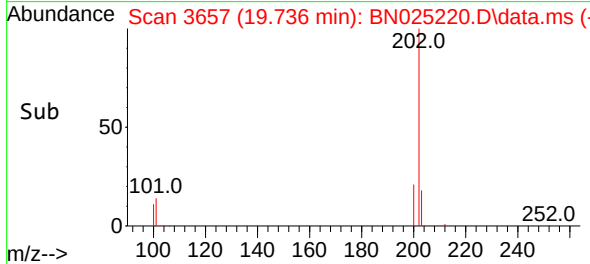
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



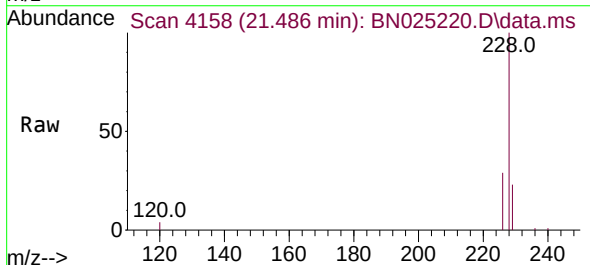
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101 14.3 11.3 16.9  
100 11.5 9.2 13.8

Manual Integrations  
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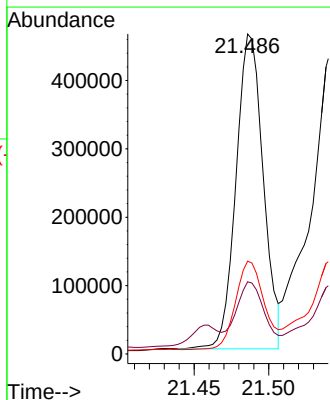
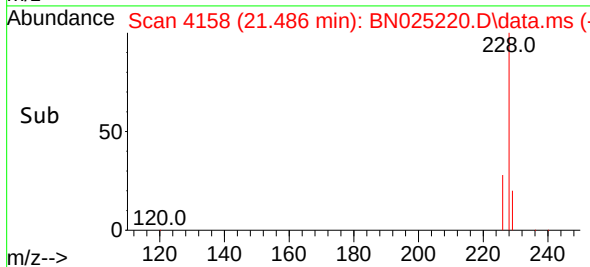
Reviewed By :Christian Giraldo 05/03/2023  
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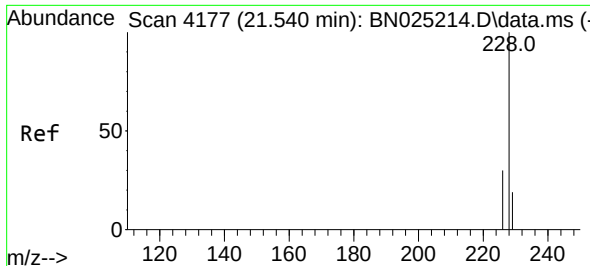
#21  
Benzo(a)anthracene  
Concen: 6.148 ng/ul  
RT: 21.486 min Scan# 4158  
Delta R.T. -0.002 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00



Tgt Ion:228 Resp: 583838  
Ion Ratio Lower Upper  
228 100  
229 22.5 15.6 23.4  
226 29.0 22.1 33.1

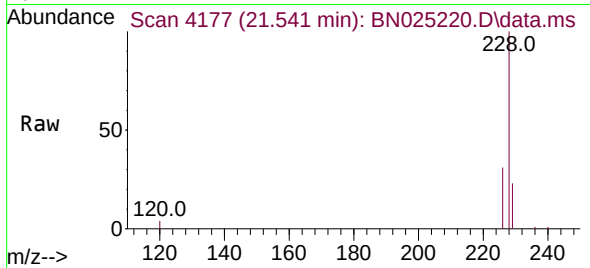






#22  
Chrysene  
Concen: 6.634 ng/ul  
RT: 21.541 min Scan# 4177  
Delta R.T. 0.001 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

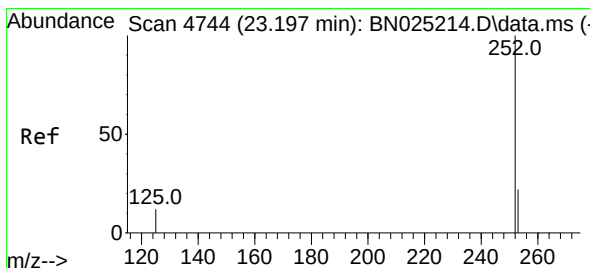
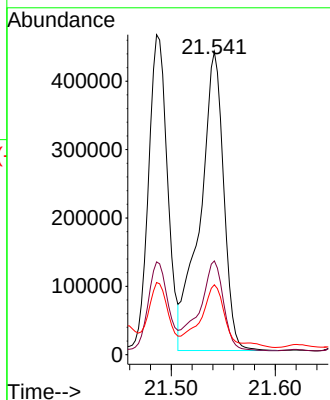
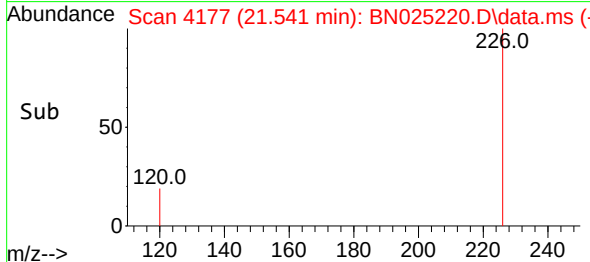
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



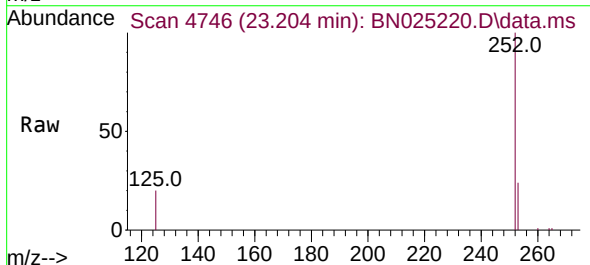
Tgt Ion:228 Resp: 687230  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.5 36.7  
229 23.1 15.8 23.6

Manual Integrations  
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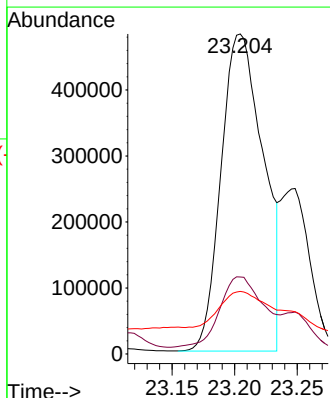
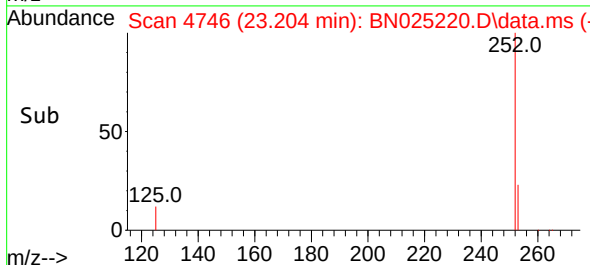
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023

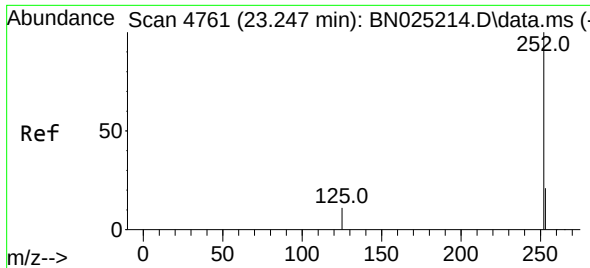


#24  
Benzo(b)fluoranthene  
Concen: 10.607 ng/ul m  
RT: 23.204 min Scan# 4746  
Delta R.T. 0.007 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00



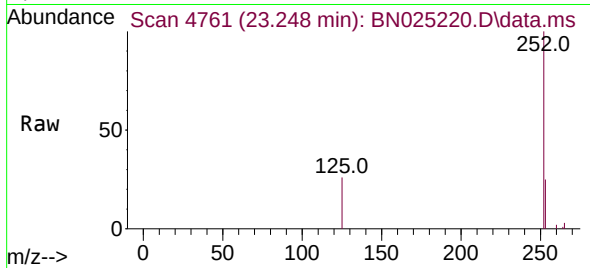
Tgt Ion:252 Resp: 1130378  
Ion Ratio Lower Upper  
252 100  
253 24.1 0.0 50.2  
125 19.6 0.0 30.4





#25  
Benzo(k)fluoranthene  
Concen: 3.910 ng/ul m  
RT: 23.248 min Scan# 4761  
Delta R.T. 0.001 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00

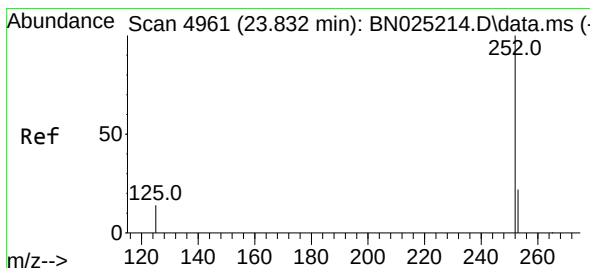
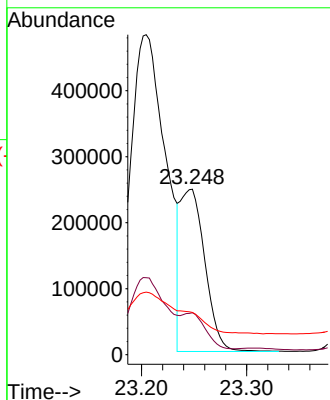
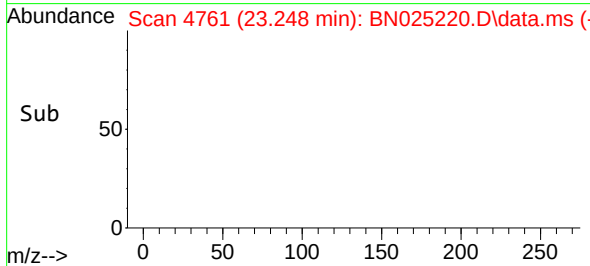
Instrument :  
BNA\_N  
ClientSampleId :  
EW929



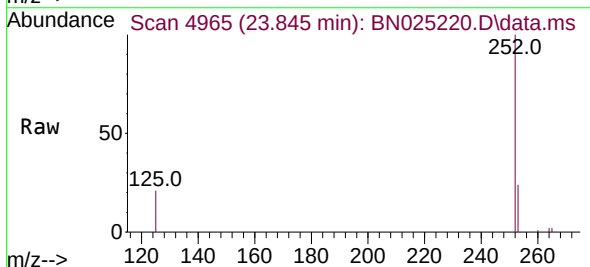
Tgt Ion:252 Resp: 400789  
Ion Ratio Lower Upper  
252 100  
253 25.4 20.2 30.4  
125 25.5 11.8 17.8

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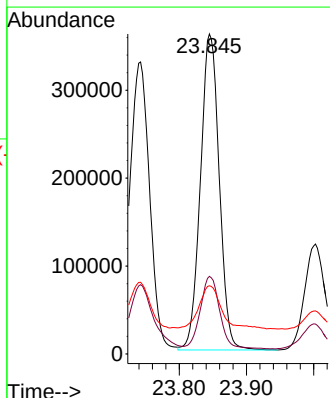
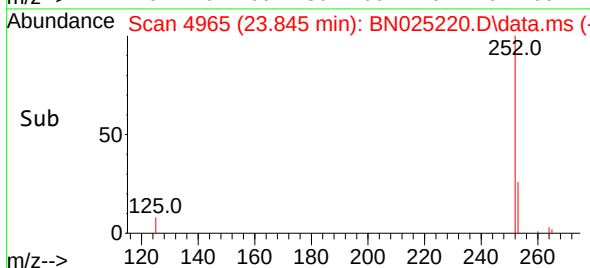
Reviewed By :Christian Giraldo 05/03/2023  
Supervised By :Jagrut Upadhyay 05/03/2023

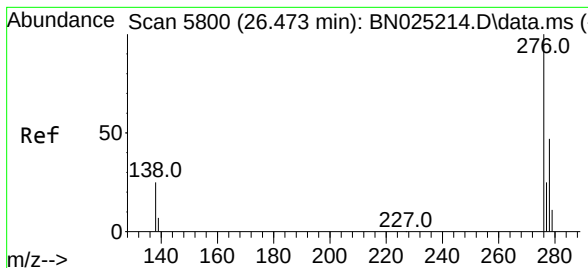


#26  
Benzo(a)pyrene  
Concen: 7.916 ng/ul  
RT: 23.845 min Scan# 4965  
Delta R.T. 0.013 min  
Lab File: BN025220.D  
Acq: 02 May 2023 15:00



Tgt Ion:252 Resp: 697910  
Ion Ratio Lower Upper  
252 100  
253 24.3 21.4 32.2  
125 21.3 14.6 22.0





#27

Indeno(1,2,3-cd)pyrene

Concen: 7.219 ng/ul

RT: 26.498 min Scan# 5807

Delta R.T. 0.025 min

Lab File: BN025220.D

Acq: 02 May 2023 15:00

Instrument :

BNA\_N

ClientSampleId :

EW929

Tgt Ion:276 Resp: 733380

Ion Ratio Lower Upper

276 100

138 24.6 21.9 32.9

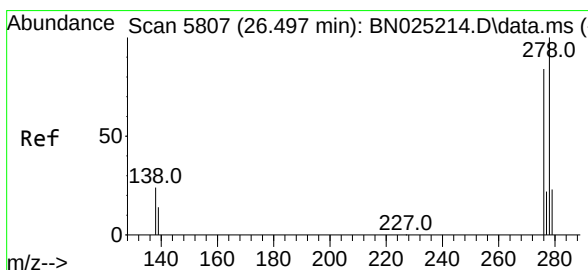
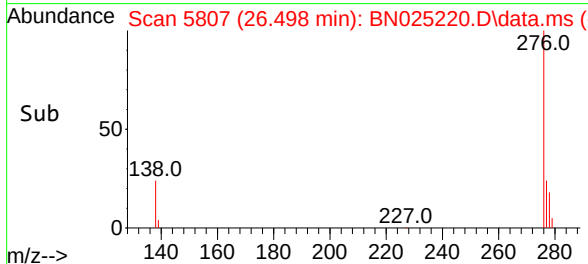
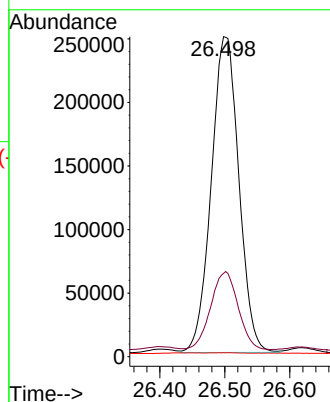
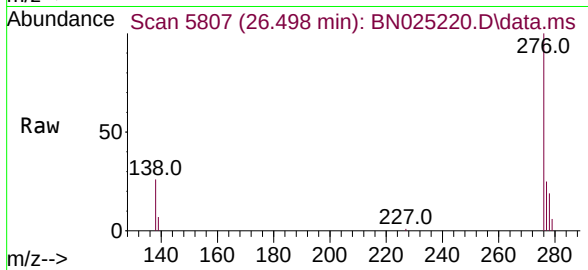
227 0.0 0.1 0.1

Manual Integrations

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Reviewed By :Christian Giraldo 05/03/2023

Supervised By :Jagrut Upadhyay 05/03/2023



#28

Dibenzo(a,h)anthracene

Concen: 2.183 ng/ul

RT: 26.508 min Scan# 5810

Delta R.T. 0.011 min

Lab File: BN025220.D

Acq: 02 May 2023 15:00

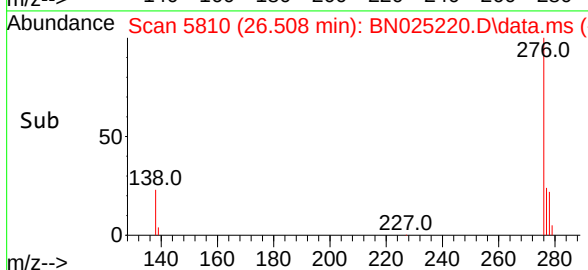
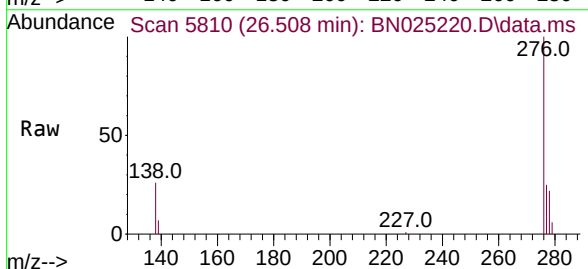
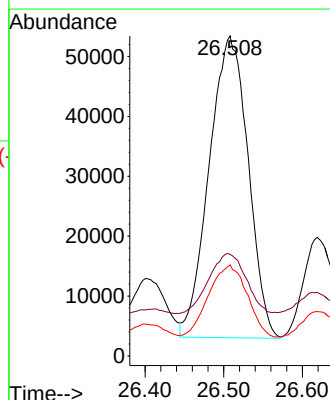
Tgt Ion:278 Resp: 173231

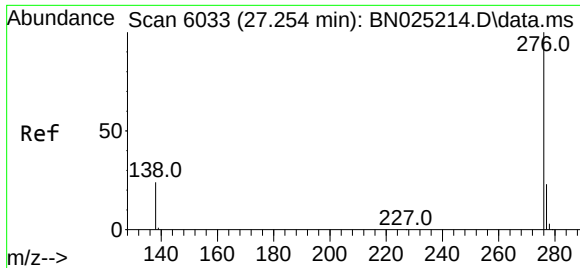
Ion Ratio Lower Upper

278 100

139 31.8 17.0 25.6

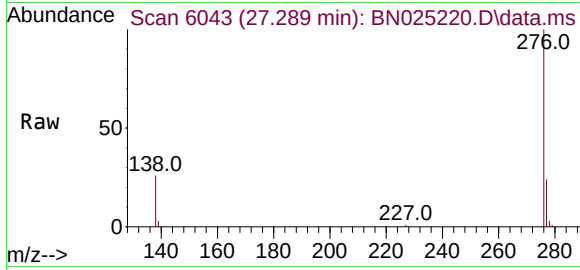
279 28.4 21.8 32.8





#29  
 Benzo(g,h,i)perylene  
 Concen: 10.334 ng/ul  
 RT: 27.289 min Scan# 6043  
 Delta R.T. 0.035 min  
 Lab File: BN025220.D  
 Acq: 02 May 2023 15:00

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW929



Tgt Ion:276 Resp: 892630  
 Ion Ratio Lower Upper  
 276 100  
 138 26.1 20.3 30.5  
 277 24.3 19.8 29.6

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 05/03/2023  
 Supervised By :Jagrut Upadhyay 05/03/2023

