

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050323\  
 Data File : BN025254.D  
 Acq On : 03 May 2023 23:54  
 Operator : CG/JU  
 Sample : 02447-07  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW912

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/04/2023  
 Supervised By : Jagrut Upadhyay 05/04/2023

Quant Time: May 04 04:32:08 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 : Wed May 03 15:28:32 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|---------|--------|----------|
| -----                       |        |      |          |         |        |          |
| Internal Standards          |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.921  | 152  | 7024     | 0.400   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.732 | 136  | 22438    | 0.400   | ng/ul  | 0.01     |
| 9) Acenaphthene-d10         | 14.570 | 164  | 15445    | 0.400   | ng/ul  | 0.01     |
| 13) Phenanthrene-d10        | 17.326 | 188  | 42410    | 0.400   | ng/ul  | # 0.02   |
| 17) Chrysene-d12            | 21.532 | 240  | 17324    | 0.400   | ng/ul  | # 0.03   |
| 23) Perylene-d12            | 23.978 | 264  | 30361    | 0.400   | ng/ul  | # 0.04   |
|                             |        |      |          |         |        |          |
| System Monitoring Compounds |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8           | 3.297  | 96   | 16341    | 2.247   | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.321 | 152  | 5325     | 0.185   | ng/ul  | 0.01     |
| 18) Fluoranthene-d10        | 19.359 | 212  | 13145    | 0.288   | ng/ul  | 0.02     |
|                             |        |      |          |         |        |          |
| Target Compounds            |        |      |          |         |        |          |
|                             |        |      |          |         |        | Qvalue   |
| 5) Naphthalene              | 10.781 | 128  | 337106   | 5.863   | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.398 | 142  | 171861   | 4.881   | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.612 | 142  | 159650   | 4.253   | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.293 | 152  | 474022   | 8.239   | ng/ul  | 99       |
| 11) Acenaphthene            | 14.635 | 153  | 399099   | 8.229   | ng/ul  | 97       |
| 12) Fluorene                | 15.620 | 166  | 551720   | 10.176  | ng/ul  | 99       |
| 14) Pentachlorophenol       | 16.984 | 266  | 727      | 0.087   | ng/ul  | 92       |
| 15) Phenanthrene            | 17.376 | 178  | 8563606  | 71.538  | ng/ul  | 99       |
| 16) Anthracene              | 17.461 | 178  | 2538300  | 25.920  | ng/ul  | 100      |
| 19) Fluoranthene            | 19.401 | 202  | 13940024 | 222.517 | ng/ul# | 92       |
| 20) Pyrene                  | 19.768 | 202  | 13054299 | 202.813 | ng/ul  | 95       |
| 21) Benzo(a)anthracene      | 21.514 | 228  | 6035763  | 115.620 | ng/ul  | 96       |
| 22) Chrysene                | 21.573 | 228  | 5892484  | 103.472 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 23.245 | 252  | 7412292m | 60.175  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.285 | 252  | 2710265m | 22.875  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.885 | 252  | 5411909  | 53.102  | ng/ul# | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.544 | 276  | 3891869  | 33.143  | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 26.544 | 278  | 1004908  | 10.956  | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 27.336 | 276  | 3559004  | 35.645  | ng/ul  | 99       |
| -----                       |        |      |          |         |        |          |

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

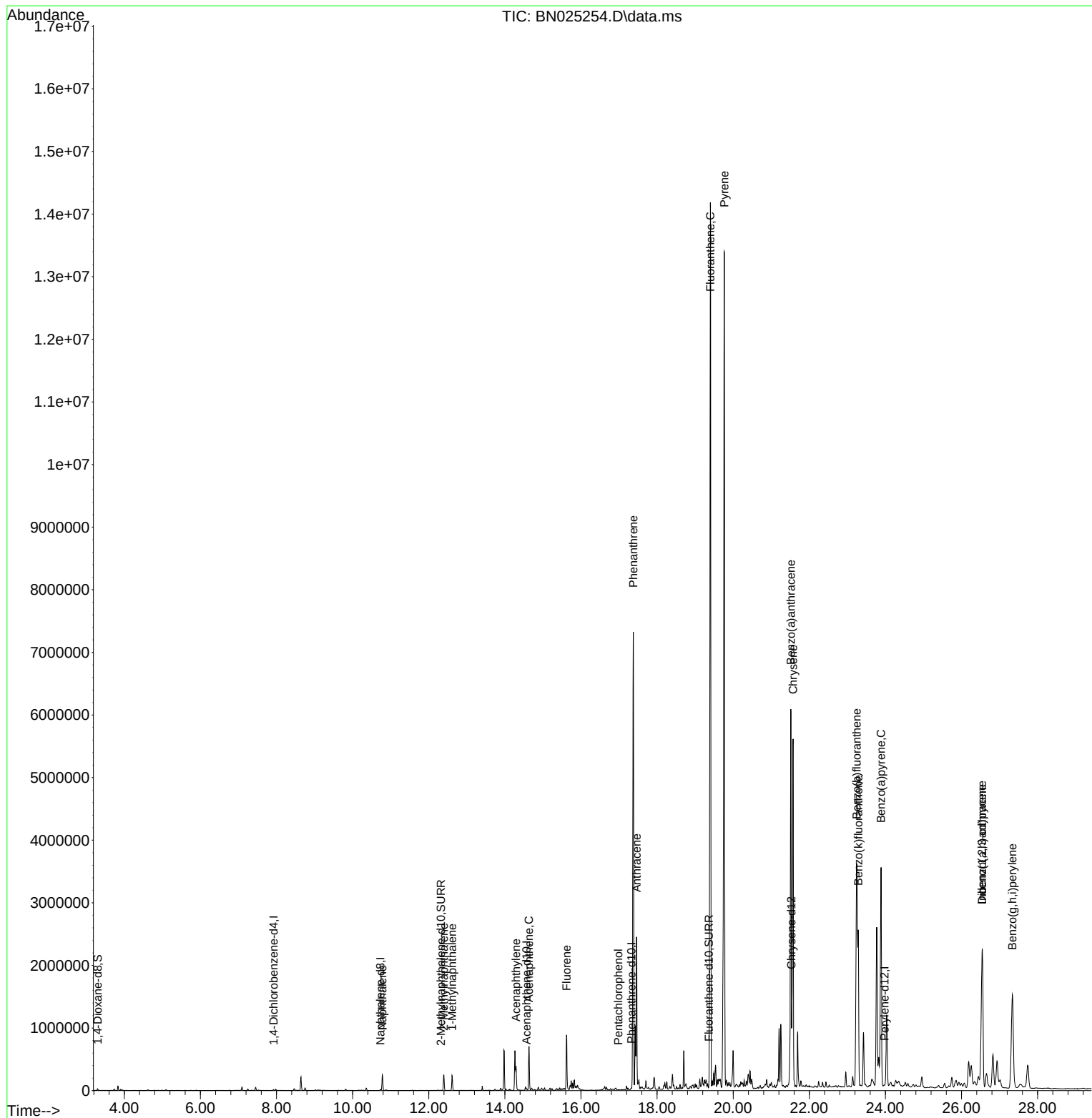
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050323\  
Data File : BN025254.D  
Acq On : 03 May 2023 23:54  
Operator : CG/JU  
Sample : 02447-07  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

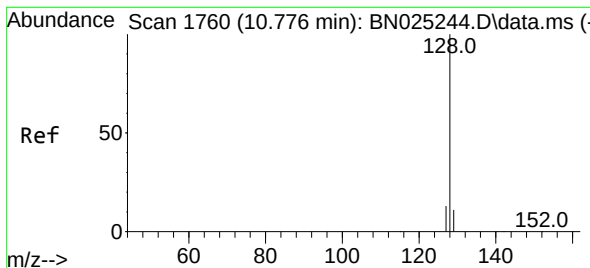
Instrument :  
BNA\_N  
ClientSampleId :  
EW912

Manual Integrations  
APPROVED

Reviewed By : Christian Giraldo 05/04/2023  
Supervised By : Jagrut Upadhyay 05/04/2023

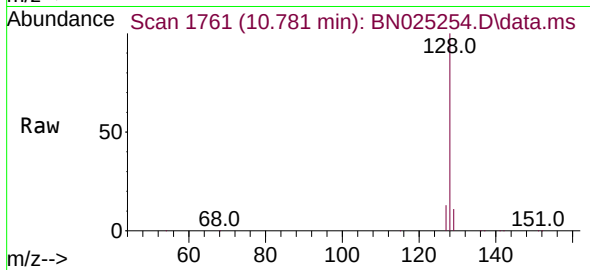
Quant Time: May 04 04:32:08 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 03 15:28:32 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 5.863 ng/ul  
RT: 10.781 min Scan# 1761  
Delta R.T. 0.013 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

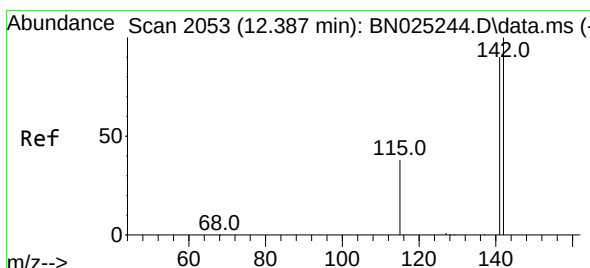
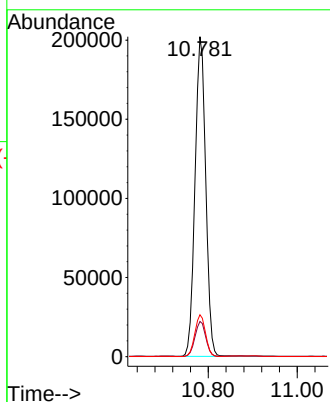
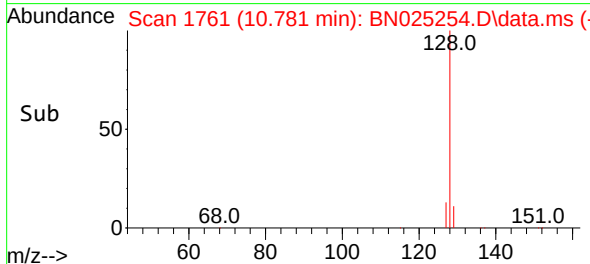
Instrument :  
BNA\_N  
ClientSampleId :  
EW912



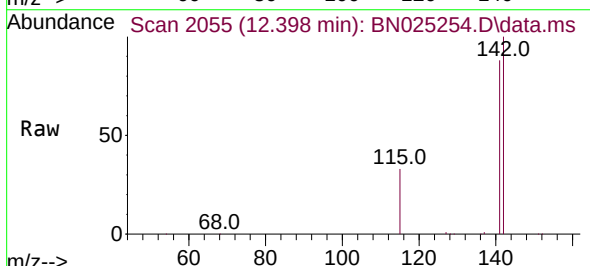
Tgt Ion:128 Resp: 337100  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.0 13.6  
127 13.1 10.7 16.1

Manual Integrations  
APPROVED

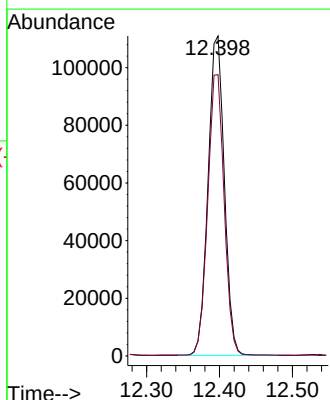
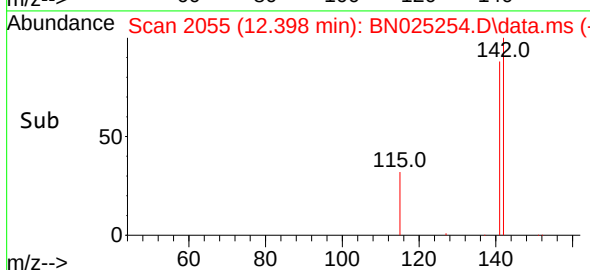
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

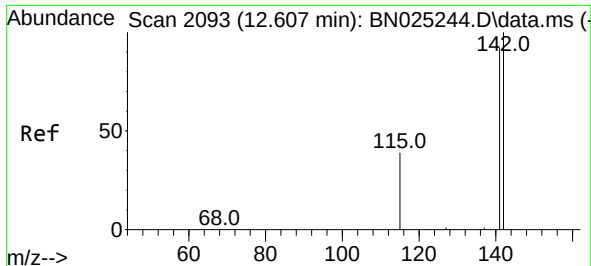


#7  
2-Methylnaphthalene  
Concen: 4.881 ng/ul  
RT: 12.398 min Scan# 2055  
Delta R.T. 0.013 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54



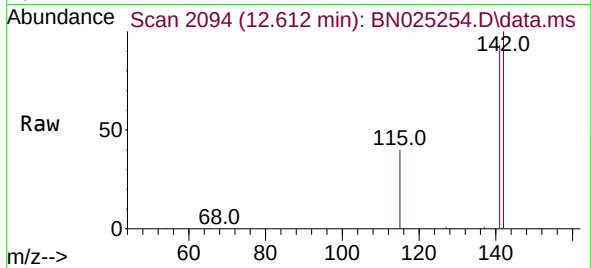
Tgt Ion:142 Resp: 171861  
Ion Ratio Lower Upper  
142 100  
141 88.5 71.4 107.0





#8  
1-Methylnaphthalene  
Concen: 4.253 ng/ul  
RT: 12.612 min Scan# 2093  
Delta R.T. 0.007 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

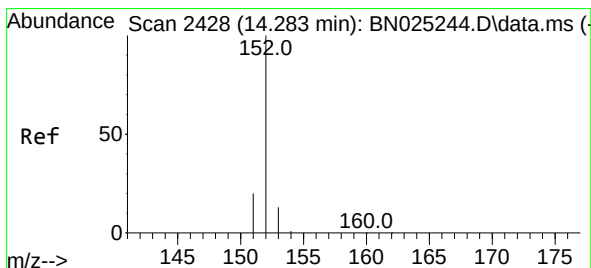
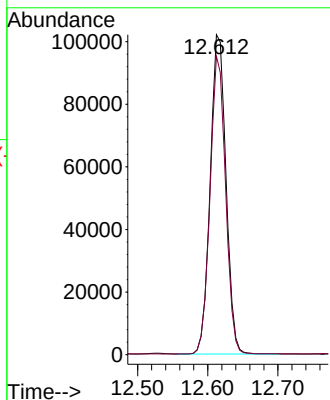
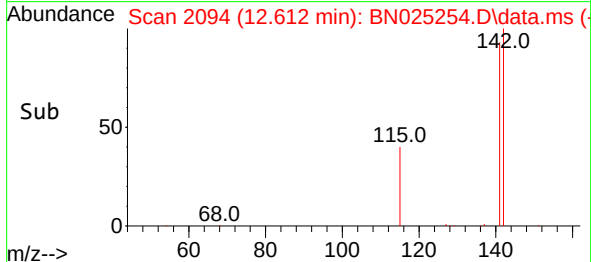
Instrument :  
BNA\_N  
ClientSampleId :  
EW912



Tgt Ion:142 Resp: 159650  
Ion Ratio Lower Upper  
142 100  
141 91.8 73.8 110.6

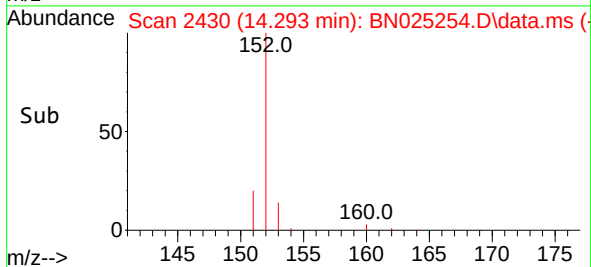
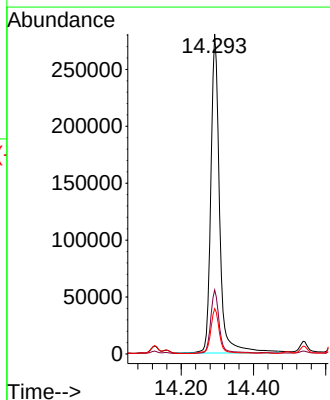
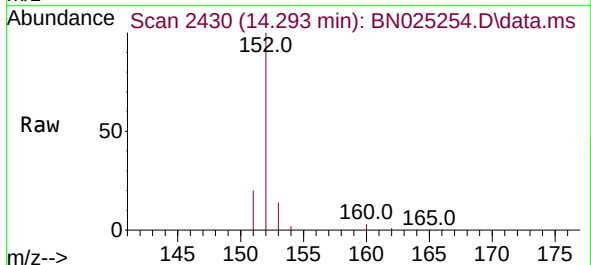
Manual Integrations  
APPROVED

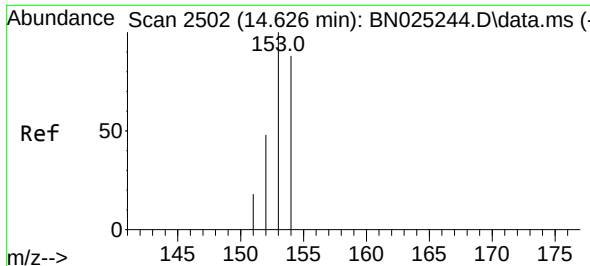
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#10  
Acenaphthylene  
Concen: 8.239 ng/ul  
RT: 14.293 min Scan# 2430  
Delta R.T. 0.015 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

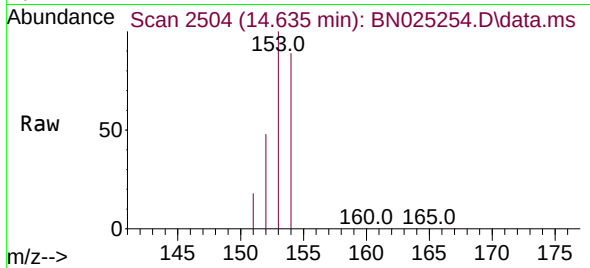
Tgt Ion:152 Resp: 474022  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.0 24.0  
153 14.2 10.8 16.2





#11  
Acenaphthene  
Concen: 8.229 ng/ul  
RT: 14.635 min Scan# 2504  
Delta R.T. 0.015 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

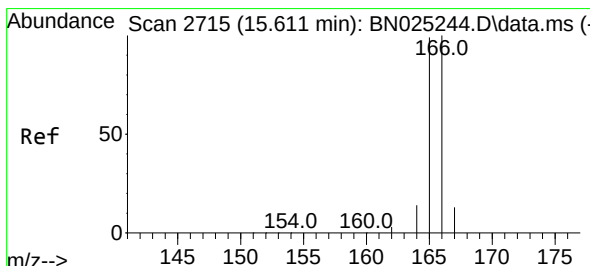
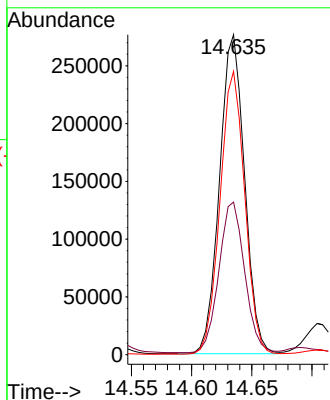
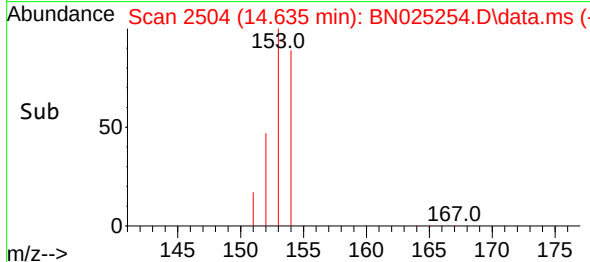
Instrument :  
BNA\_N  
ClientSampleId :  
EW912



Tgt Ion:153 Resp: 399099  
Ion Ratio Lower Upper  
153 100  
152 47.7 40.2 60.4  
154 88.5 69.4 104.2

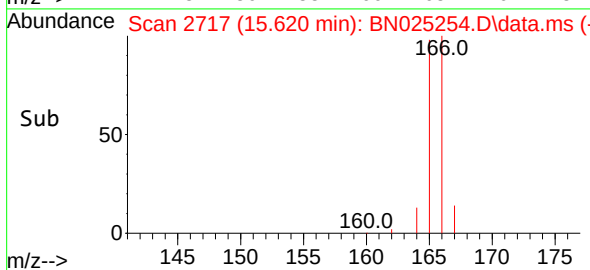
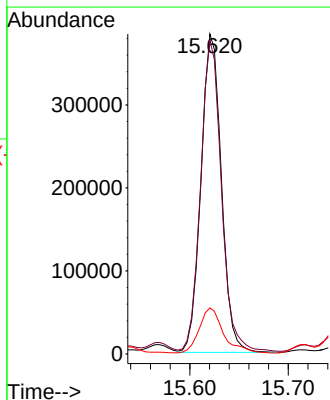
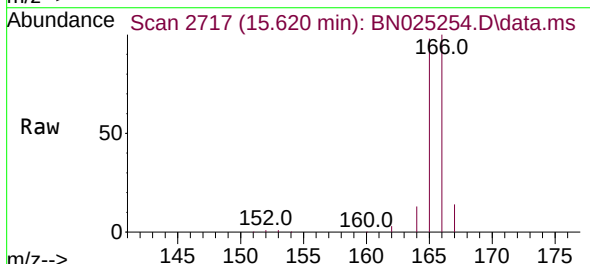
Manual Integrations  
APPROVED

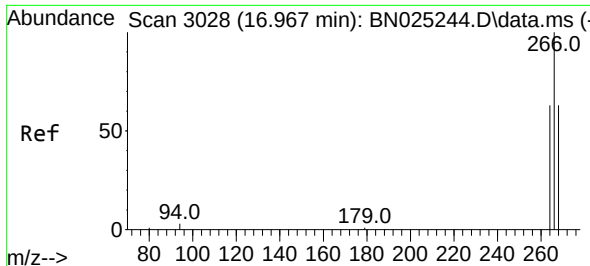
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#12  
Fluorene  
Concen: 10.176 ng/ul  
RT: 15.620 min Scan# 2717  
Delta R.T. 0.010 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

Tgt Ion:166 Resp: 551720  
Ion Ratio Lower Upper  
166 100  
165 98.0 78.1 117.1  
167 14.4 11.0 16.6





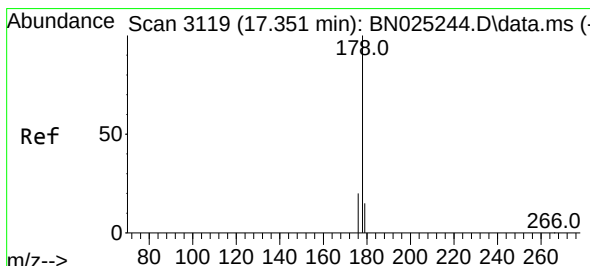
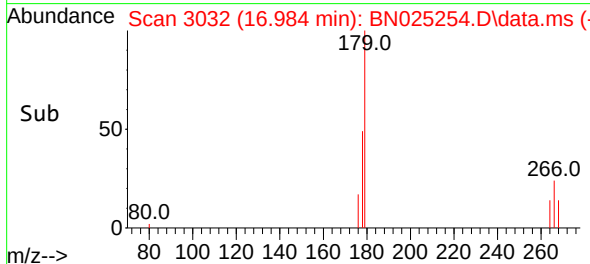
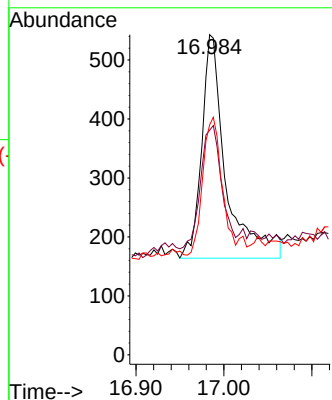
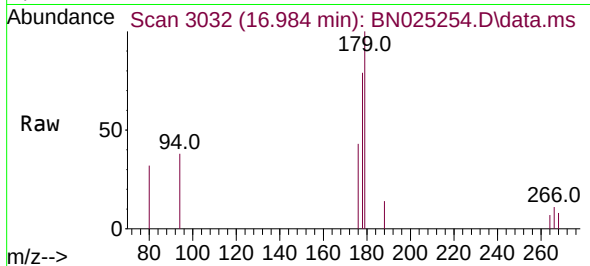
#14  
Pentachlorophenol  
Concen: 0.087 ng/u1  
RT: 16.984 min Scan# 3028  
Delta R.T. 0.018 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

Instrument :  
BNA\_N  
ClientSampleId :  
EW912

Tgt Ion:266 Resp: 721  
Ion Ratio Lower Upper  
266 100  
264 62.0 49.6 74.4  
268 51.6 51.3 76.9

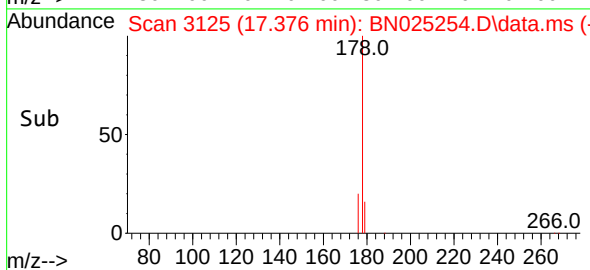
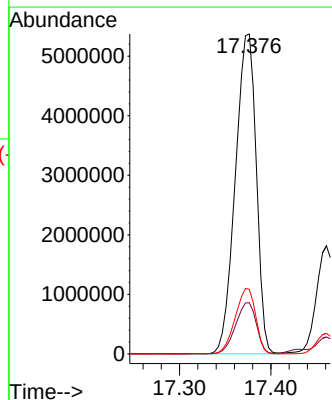
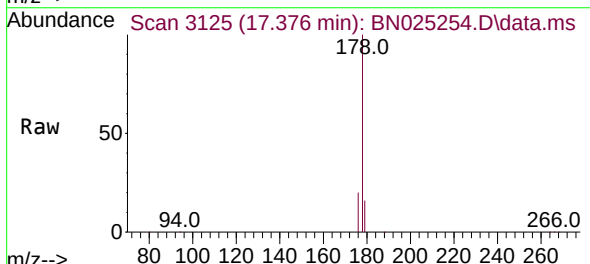
Manual Integrations  
APPROVED

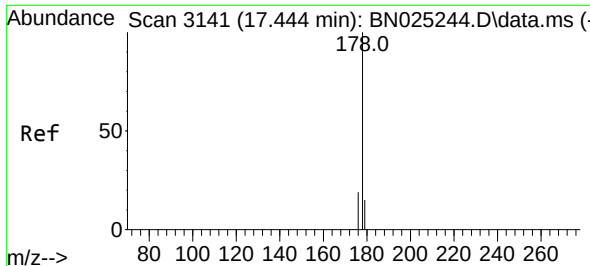
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#15  
Phenanthrene  
Concen: 71.538 ng/u1  
RT: 17.376 min Scan# 3125  
Delta R.T. 0.026 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

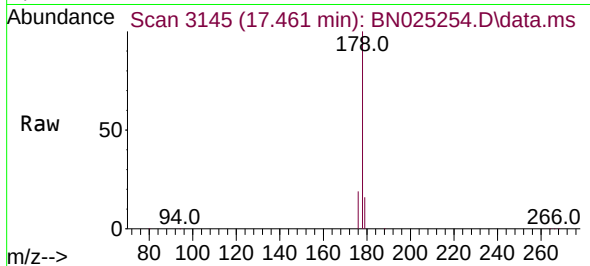
Tgt Ion:178 Resp: 8563606  
Ion Ratio Lower Upper  
178 100  
179 16.0 12.5 18.7  
176 20.2 15.6 23.4





#16  
 Anthracene  
 Concen: 25.920 ng/u1  
 RT: 17.461 min Scan# 3145  
 Delta R.T. 0.018 min  
 Lab File: BN025254.D  
 Acq: 03 May 2023 23:54

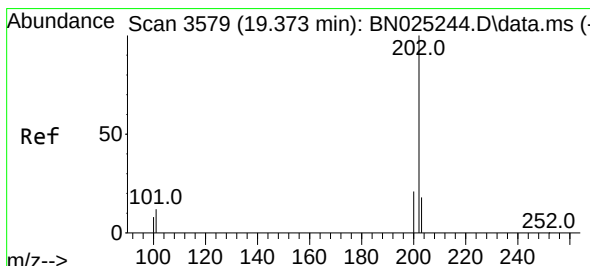
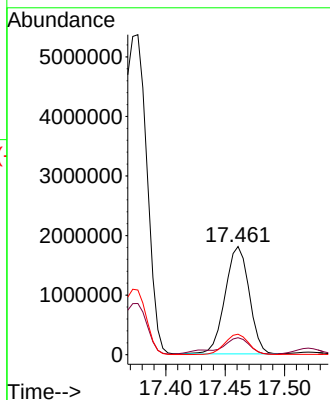
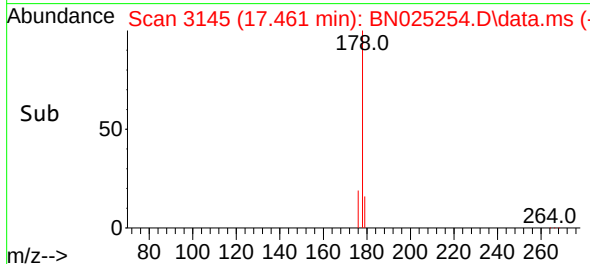
Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW912



Tgt Ion:178 Resp: 2538300  
 Ion Ratio Lower Upper  
 178 100  
 179 15.7 12.7 19.1  
 176 19.0 15.3 22.9

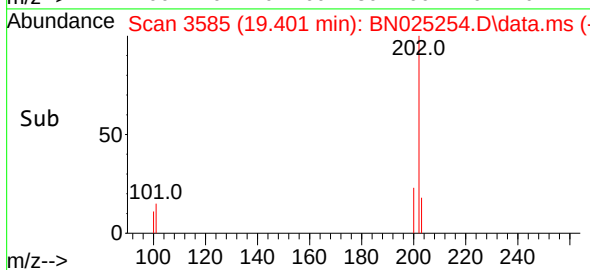
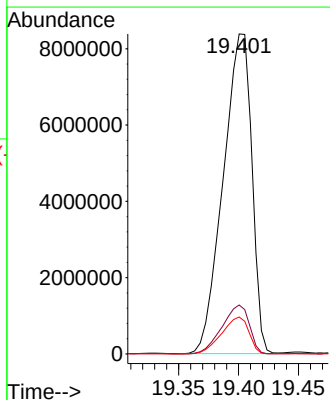
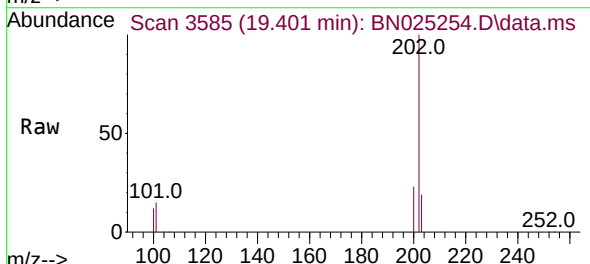
Manual Integrations  
 APPROVED

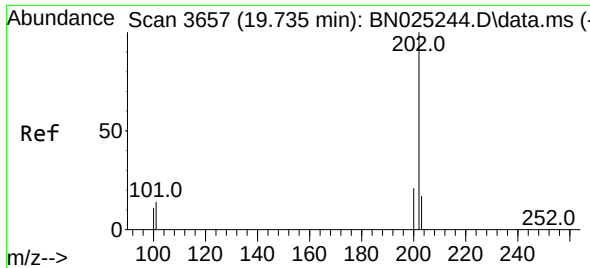
Reviewed By :Christian Giraldo 05/04/2023  
 Supervised By :Jagrut Upadhyay 05/04/2023



#19  
 Fluoranthene  
 Concen: 222.517 ng/u1  
 RT: 19.401 min Scan# 3585  
 Delta R.T. 0.029 min  
 Lab File: BN025254.D  
 Acq: 03 May 2023 23:54

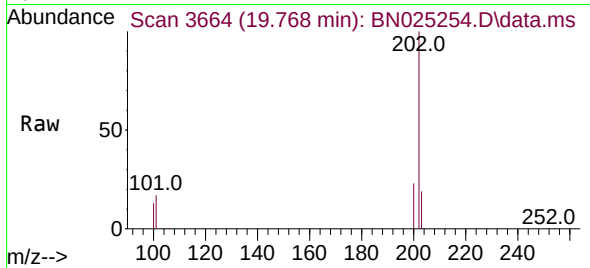
Tgt Ion:202 Resp:13940024  
 Ion Ratio Lower Upper  
 202 100  
 101 15.3 9.7 14.5#  
 100 11.6 7.3 10.9#





#20  
Pyrene  
Concen: 202.813 ng/u1  
RT: 19.768 min Scan# 3664  
Delta R.T. 0.034 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

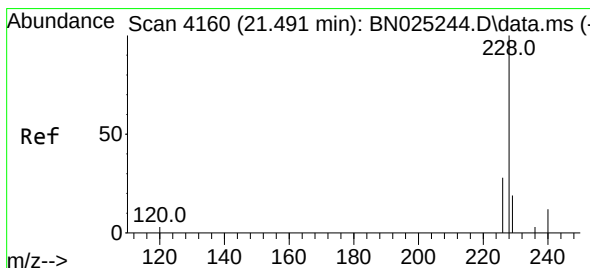
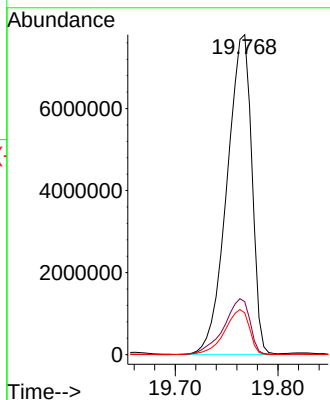
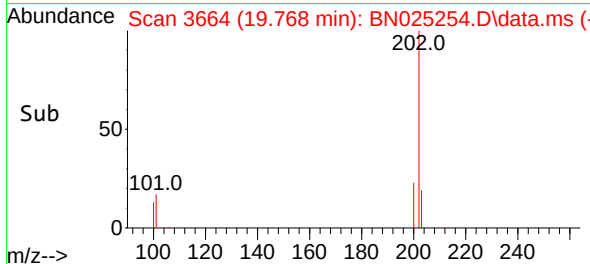
Instrument :  
BNA\_N  
ClientSampleId :  
EW912



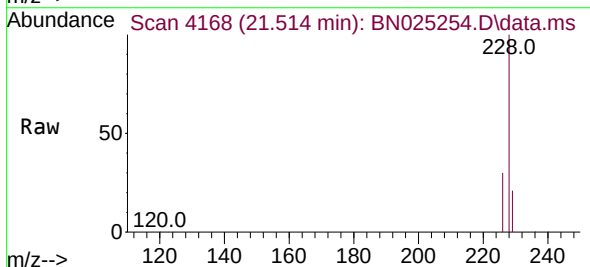
Tgt Ion:202 Resp:13054295  
Ion Ratio Lower Upper  
202 100  
101 16.6 11.3 16.9  
100 13.0 9.2 13.8

Manual Integrations  
APPROVED

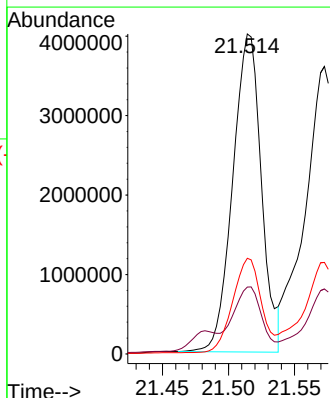
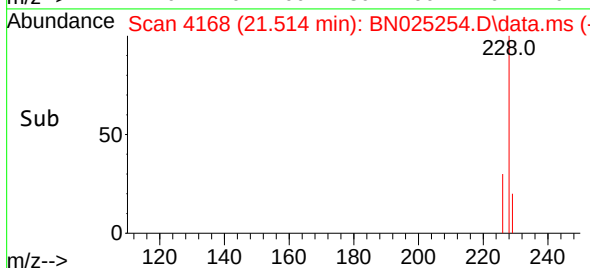
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



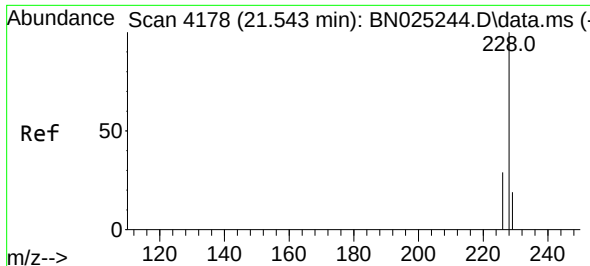
#21  
Benzo(a)anthracene  
Concen: 115.620 ng/u1  
RT: 21.514 min Scan# 4168  
Delta R.T. 0.028 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54



Tgt Ion:228 Resp: 6035763  
Ion Ratio Lower Upper  
228 100  
229 20.9 15.6 23.4  
226 29.9 22.1 33.1

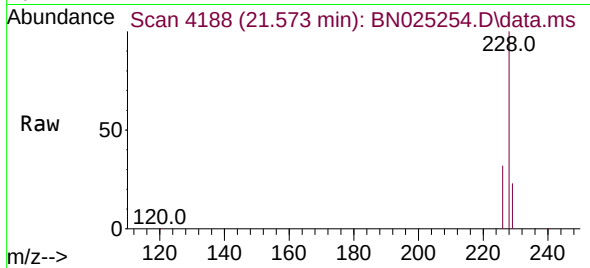






#22  
Chrysene  
Concen: 103.472 ng/ul  
RT: 21.573 min Scan# 4178  
Delta R.T. 0.033 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

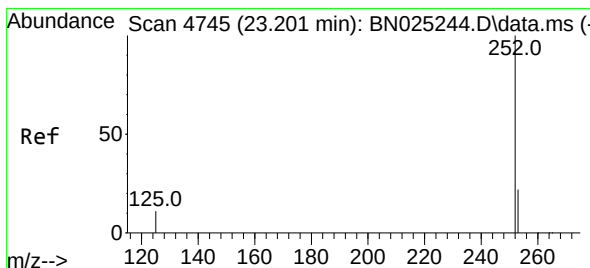
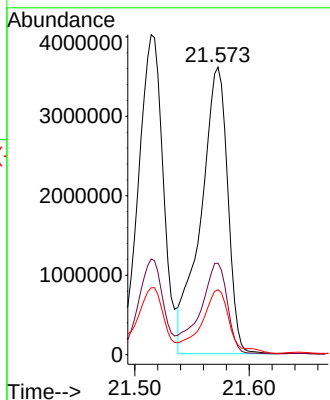
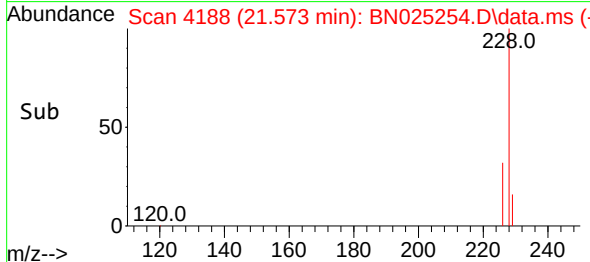
Instrument :  
BNA\_N  
ClientSampleId :  
EW912



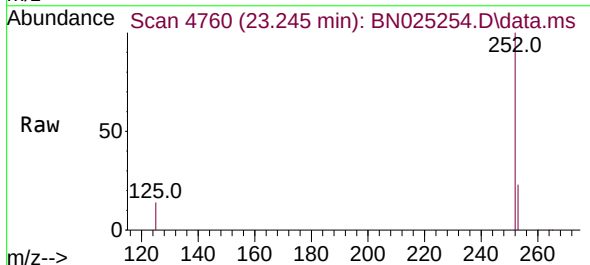
Tgt Ion:228 Resp: 5892484  
Ion Ratio Lower Upper  
228 100  
226 31.9 24.5 36.7  
229 22.6 15.8 23.6

Manual Integrations  
APPROVED

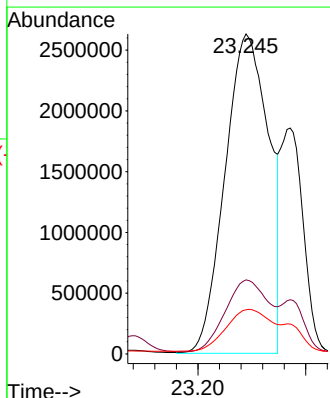
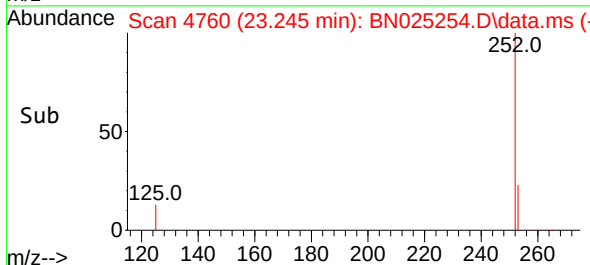
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

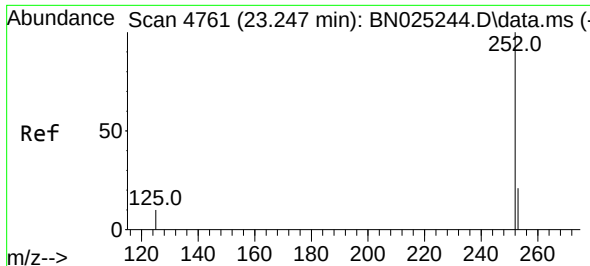


#24  
Benzo(b)fluoranthene  
Concen: 60.175 ng/ul m  
RT: 23.245 min Scan# 4760  
Delta R.T. 0.048 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54



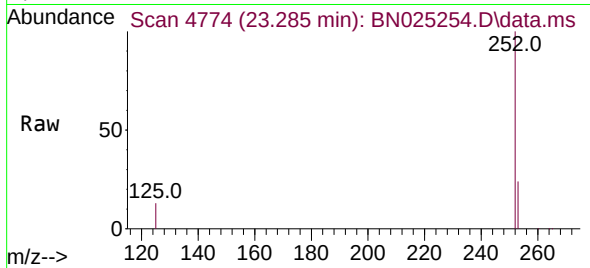
Tgt Ion:252 Resp: 7412292  
Ion Ratio Lower Upper  
252 100  
253 23.2 0.0 50.2  
125 13.8 0.0 30.4





#25  
Benzo(k)fluoranthene  
Concen: 22.875 ng/ul m  
RT: 23.285 min Scan# 4761  
Delta R.T. 0.039 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54

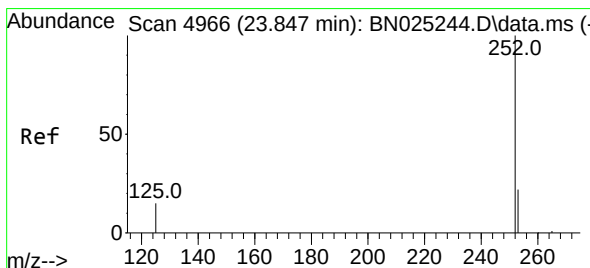
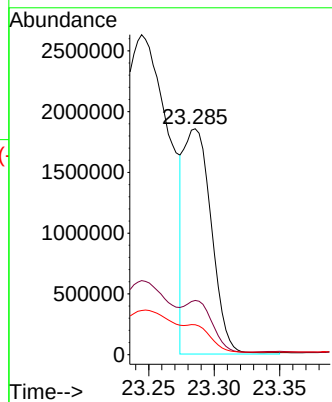
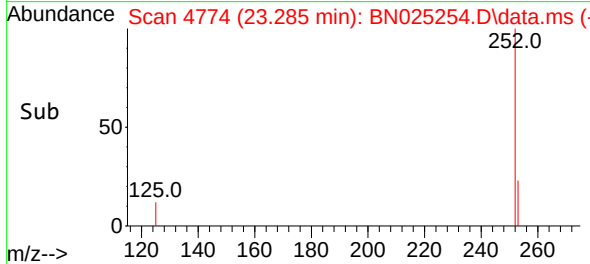
Instrument :  
BNA\_N  
ClientSampleId :  
EW912



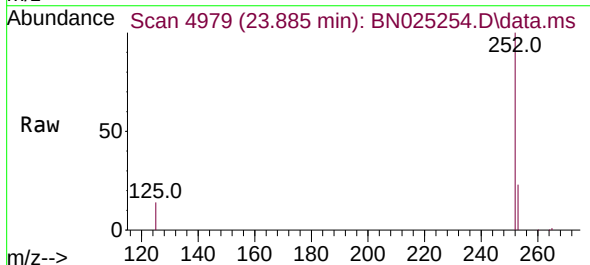
Tgt Ion:252 Resp: 271026  
Ion Ratio Lower Upper  
252 100  
253 24.0 20.2 30.4  
125 13.2 11.8 17.8

Manual Integrations  
APPROVED

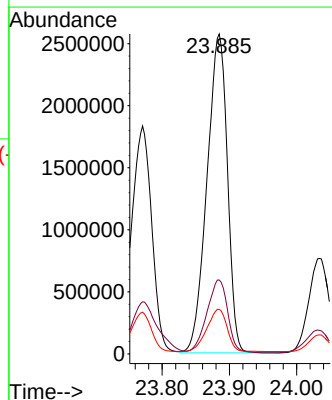
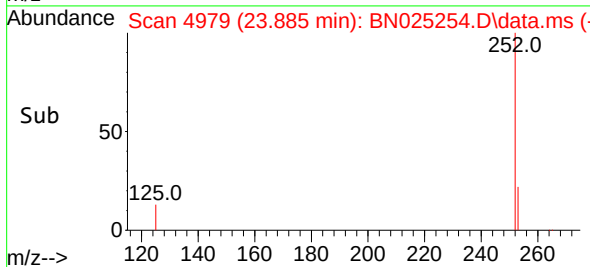
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

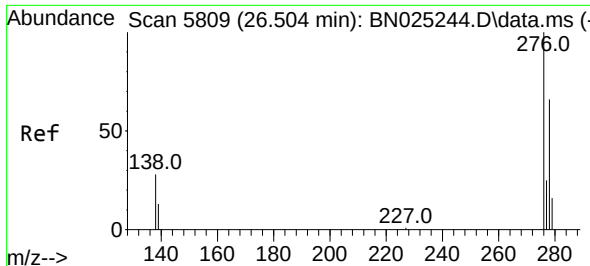


#26  
Benzo(a)pyrene  
Concen: 53.102 ng/ul  
RT: 23.885 min Scan# 4979  
Delta R.T. 0.057 min  
Lab File: BN025254.D  
Acq: 03 May 2023 23:54



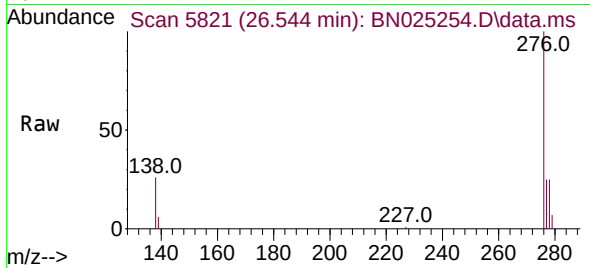
Tgt Ion:252 Resp: 5411909  
Ion Ratio Lower Upper  
252 100  
253 23.1 21.4 32.2  
125 14.0 14.6 22.0#





#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 33.143 ng/ul  
 RT: 26.544 min Scan# 5809  
 Delta R.T. 0.068 min  
 Lab File: BN025254.D  
 Acq: 03 May 2023 23:54

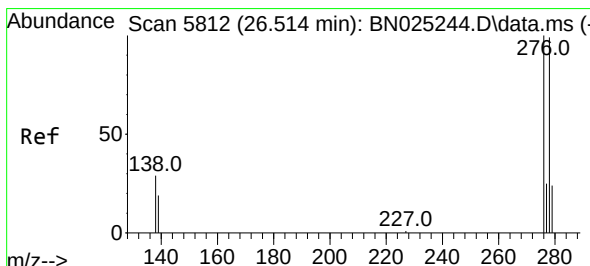
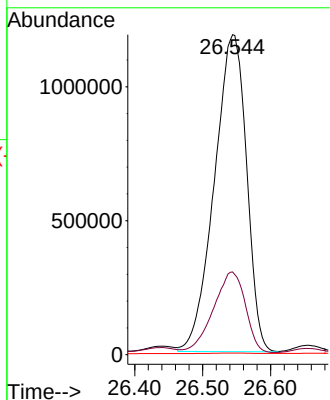
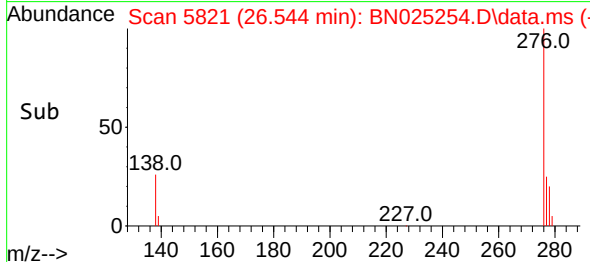
Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW912



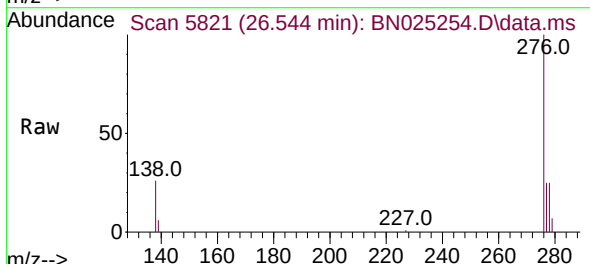
Tgt Ion:276 Resp: 3891869  
 Ion Ratio Lower Upper  
 276 100  
 138 25.2 21.9 32.9  
 227 0.4 0.1 0.1

Manual Integrations  
 APPROVED

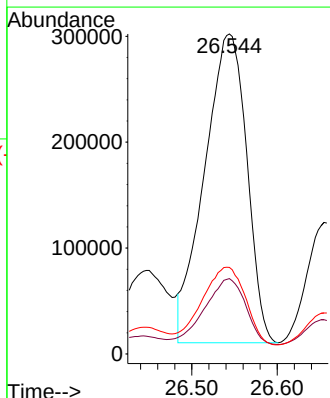
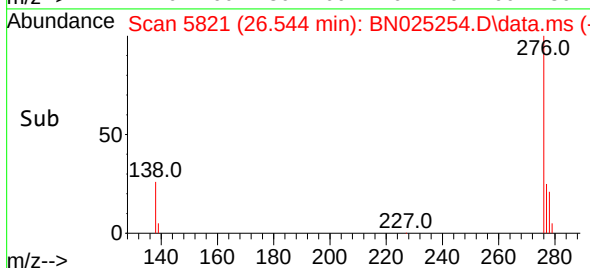
Reviewed By :Christian Giraldo 05/04/2023  
 Supervised By :Jagrut Upadhyay 05/04/2023

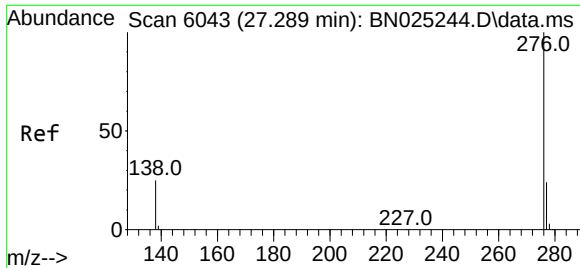


#28  
 Dibenzo(a,h)anthracene  
 Concen: 10.956 ng/ul  
 RT: 26.544 min Scan# 5821  
 Delta R.T. 0.052 min  
 Lab File: BN025254.D  
 Acq: 03 May 2023 23:54



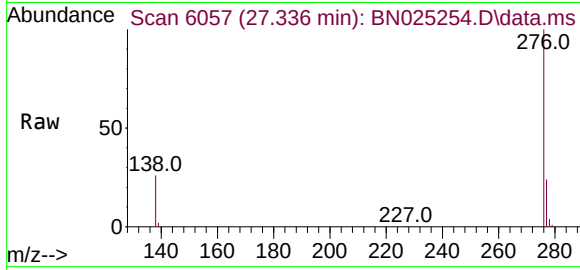
Tgt Ion:278 Resp: 1004908  
 Ion Ratio Lower Upper  
 278 100  
 139 23.6 17.0 25.6  
 279 27.1 21.8 32.8





#29  
 Benzo(g,h,i)perylene  
 Concen: 35.645 ng/ul  
 RT: 27.336 min Scan# 6057  
 Delta R.T. 0.075 min  
 Lab File: BN025254.D  
 Acq: 03 May 2023 23:54

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW912



Tgt Ion: 276 Resp: 3559004

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 25.7  | 20.3  | 30.5  |
| 277 | 24.3  | 19.8  | 29.6  |

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/04/2023  
 Supervised By : Jagrut Upadhyay 05/04/2023

