

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN033023\  
 Data File : BN024684.D  
 Acq On : 31 Mar 2023 18:06  
 Operator : CG/JU  
 Sample : 02006-02  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB948

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 04/03/2023  
 Supervised By : Jagrut Upadhyay 04/03/2023

Quant Time: Apr 01 01:02:29 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN033023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 01 01:00:20 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.000  | 152  | 8545     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.812 | 136  | 26163    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.633 | 164  | 14977    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.380 | 188  | 33034    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.562 | 240  | 27607    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.033 | 264  | 24151    | 0.400 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.368  | 96   | 28847    | 3.289 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.396 | 152  | 7344     | 0.227 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.408 | 212  | 14633    | 0.217 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.861 | 128  | 33115    | 0.515 | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.467 | 142  | 9432     | 0.236 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.687 | 142  | 4340     | 0.104 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.356 | 152  | 14310    | 0.270 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.698 | 153  | 4126     | 0.090 | ng/ul  | 98       |
| 12) Fluorene                | 15.684 | 166  | 7320     | 0.140 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.422 | 178  | 103110   | 1.138 | ng/ul  | 100      |
| 16) Anthracene              | 17.515 | 178  | 20270    | 0.268 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.436 | 202  | 280000   | 2.878 | ng/ul  | 99       |
| 20) Pyrene                  | 19.799 | 202  | 52782m   | 0.533 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.545 | 228  | 130937   | 1.579 | ng/ul  | 99       |
| 22) Chrysene                | 21.600 | 228  | 130097   | 1.426 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.275 | 252  | 157846m  | 1.573 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.322 | 252  | 71173m   | 0.737 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.919 | 252  | 9807     | 0.124 | ng/ul# | 45       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.603 | 276  | 13713    | 0.146 | ng/ul# | 94       |
| 28) Dibenzo(a,h)anthracene  | 26.616 | 278  | 16912    | 0.225 | ng/ul# | 87       |
| -----                       |        |      |          |       |        |          |

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

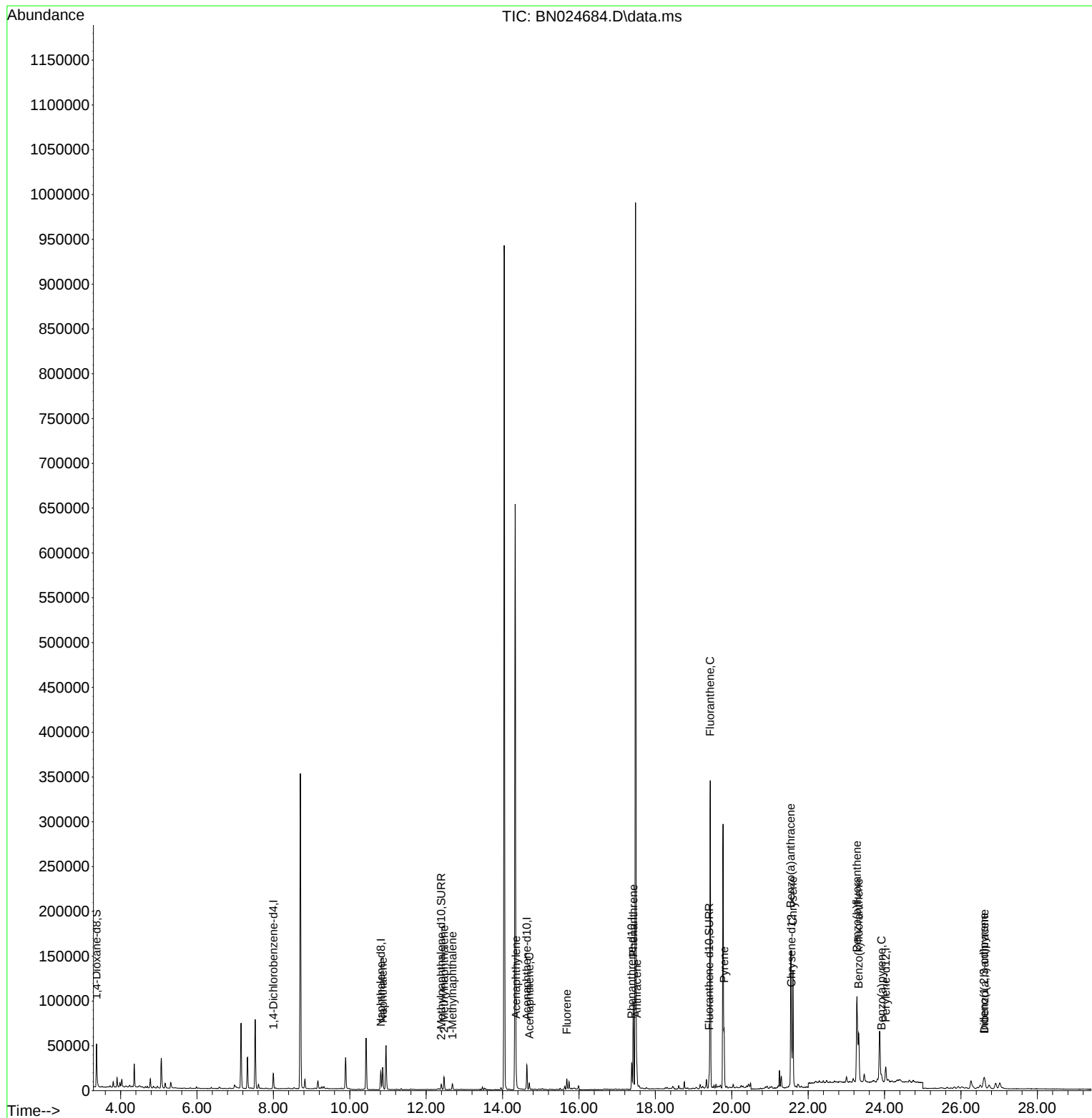
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN033023\  
Data File : BN024684.D  
Acq On : 31 Mar 2023 18:06  
Operator : CG/JU  
Sample : 02006-02  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

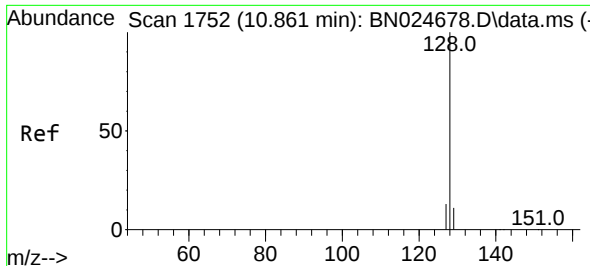
Instrument :  
BNA\_N  
ClientSampleId :  
CB948

Manual Integrations  
APPROVED

Reviewed By : Christian Giraldo 04/03/2023  
Supervised By : Jagrut Upadhyay 04/03/2023

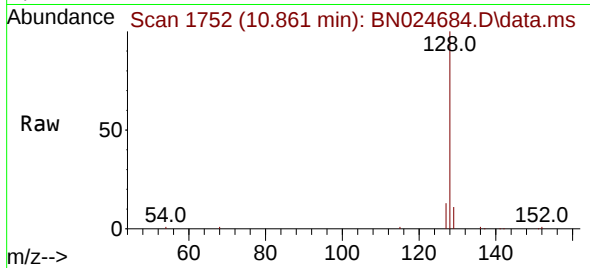
Quant Time: Apr 01 01:02:29 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN033023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Apr 01 01:00:20 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.515 ng/ul  
RT: 10.861 min Scan# 1752  
Delta R.T. -0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

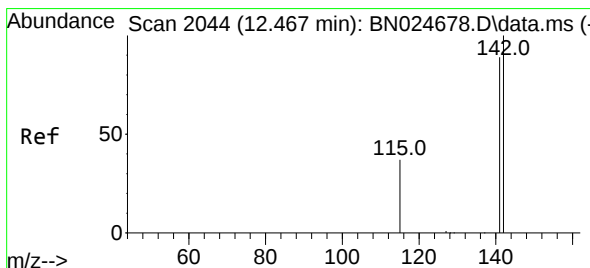
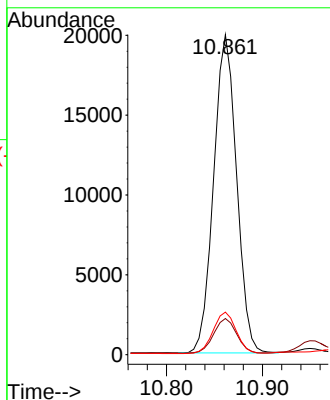
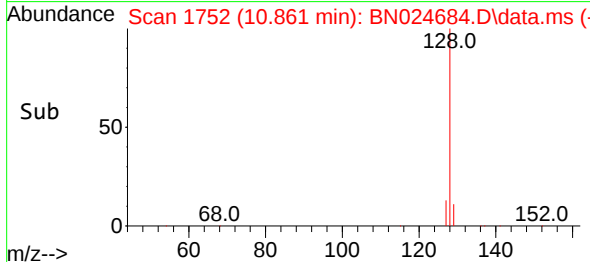
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



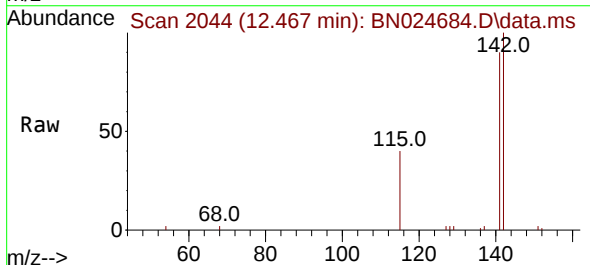
Tgt Ion:128 Resp: 3311  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.6  
127 13.3 10.5 15.7

Manual Integrations  
APPROVED

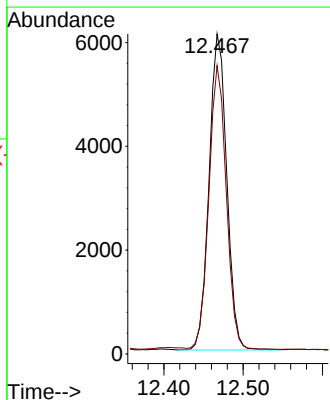
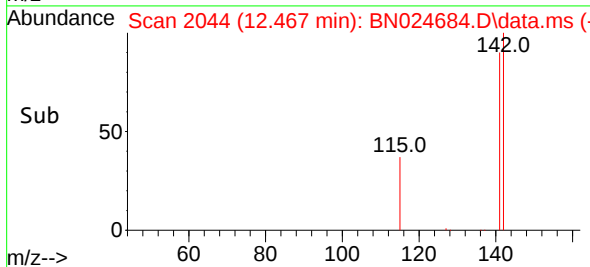
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023

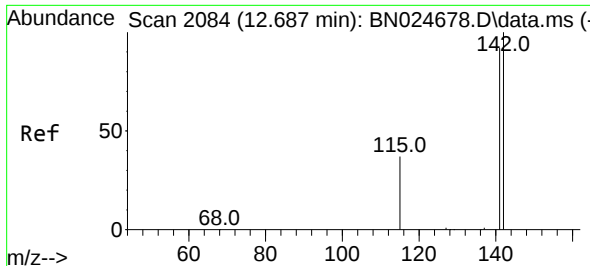


#7  
2-Methylnaphthalene  
Concen: 0.236 ng/ul  
RT: 12.467 min Scan# 2044  
Delta R.T. -0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06



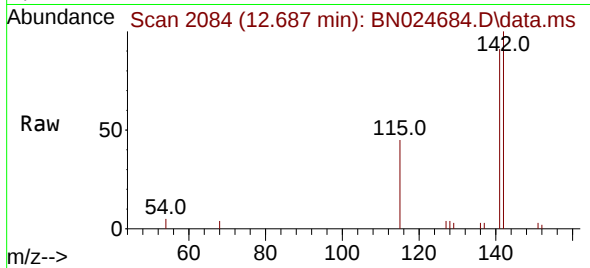
Tgt Ion:142 Resp: 9432  
Ion Ratio Lower Upper  
142 100  
141 88.4 70.9 106.3





#8  
1-Methylnaphthalene  
Concen: 0.104 ng/ul  
RT: 12.687 min Scan# 2084  
Delta R.T. -0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

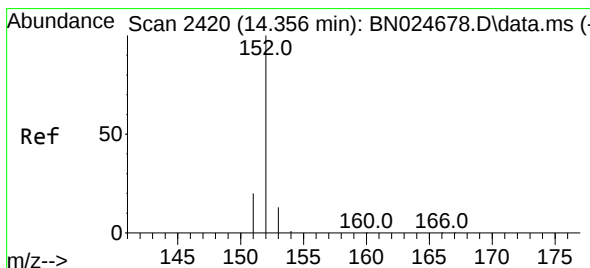
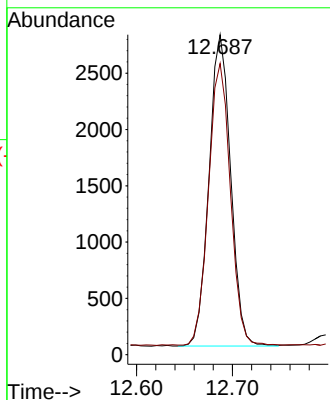
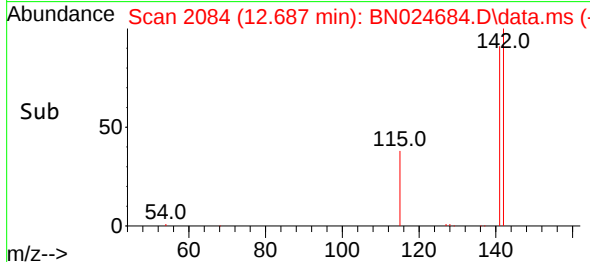
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



Tgt Ion:142 Resp: 4340  
Ion Ratio Lower Upper  
142 100  
141 91.5 73.5 110.3

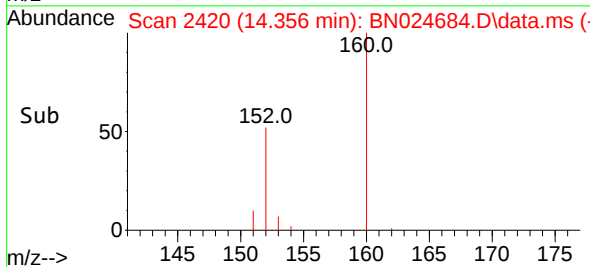
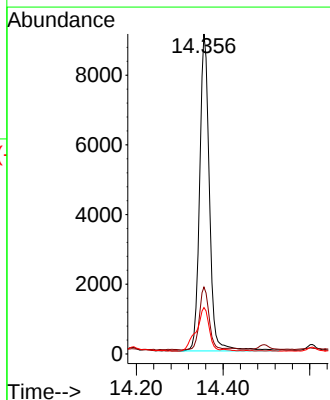
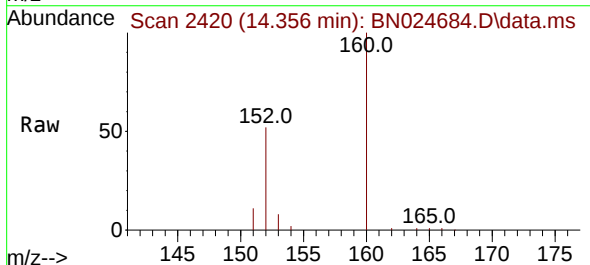
Manual Integrations  
APPROVED

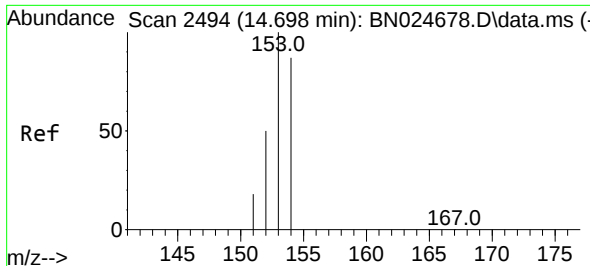
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023



#10  
Acenaphthylene  
Concen: 0.270 ng/ul  
RT: 14.356 min Scan# 2420  
Delta R.T. -0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

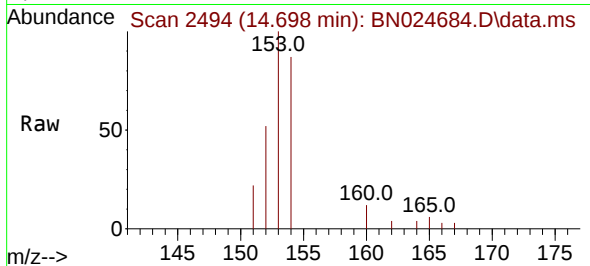
Tgt Ion:152 Resp: 14310  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.1 24.1  
153 14.5 10.6 16.0





#11  
Acenaphthene  
Concen: 0.090 ng/ul  
RT: 14.698 min Scan# 2494  
Delta R.T. -0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

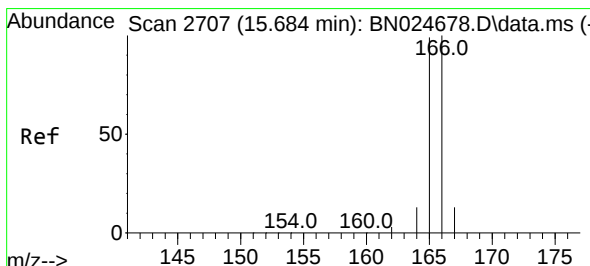
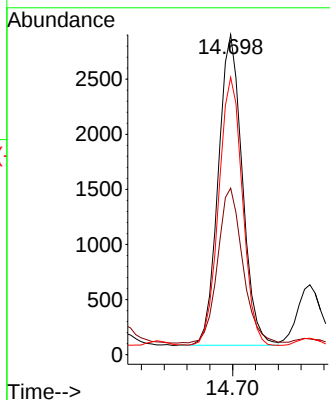
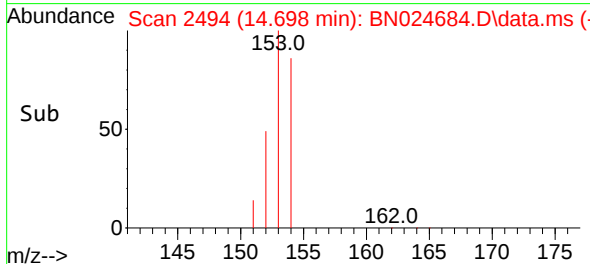
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



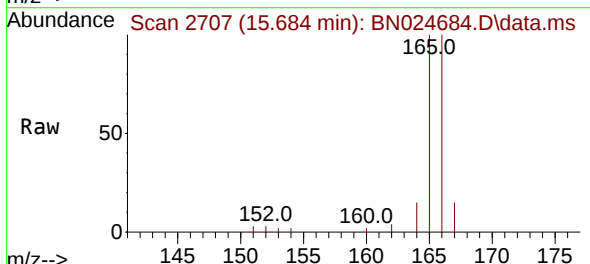
Tgt Ion:153 Resp: 4120  
Ion Ratio Lower Upper  
153 100  
152 52.1 40.3 60.5  
154 86.6 71.0 106.4

Manual Integrations  
APPROVED

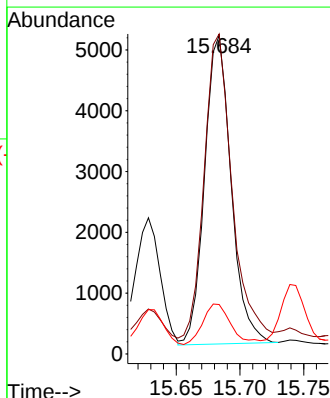
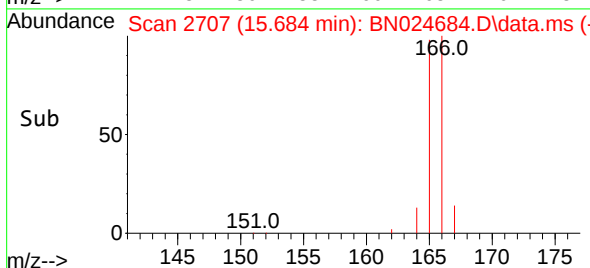
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023

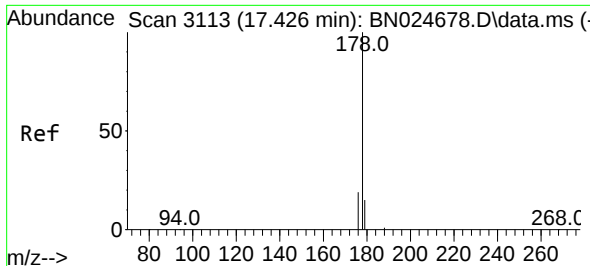


#12  
Fluorene  
Concen: 0.140 ng/ul  
RT: 15.684 min Scan# 2707  
Delta R.T. -0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06



Tgt Ion:166 Resp: 7320  
Ion Ratio Lower Upper  
166 100  
165 100.5 80.0 120.0  
167 15.5 10.8 16.2





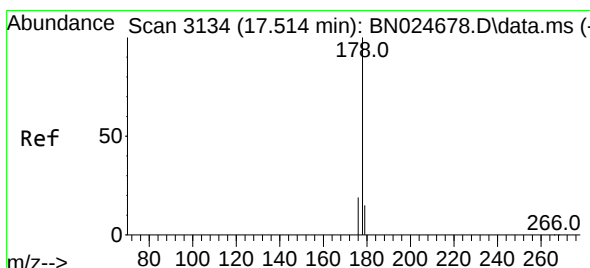
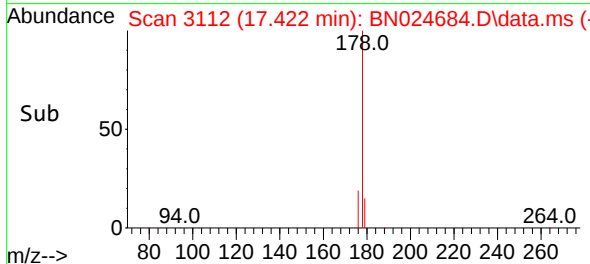
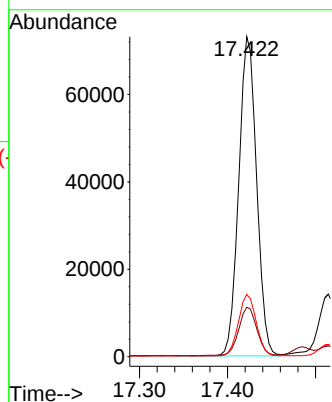
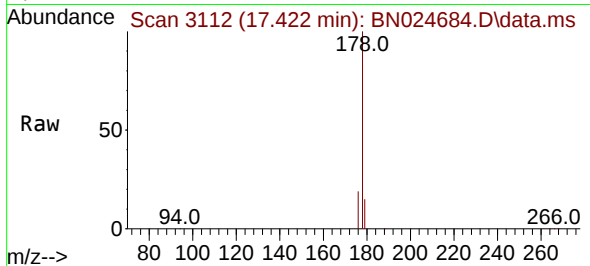
#15  
Phenanthrene  
Concen: 1.138 ng/ul  
RT: 17.422 min Scan# 3111  
Delta R.T. -0.004 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

Instrument :  
BNA\_N  
ClientSampleId :  
CB948

Tgt Ion:178 Resp: 103110  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.3 18.5  
176 19.5 15.5 23.3

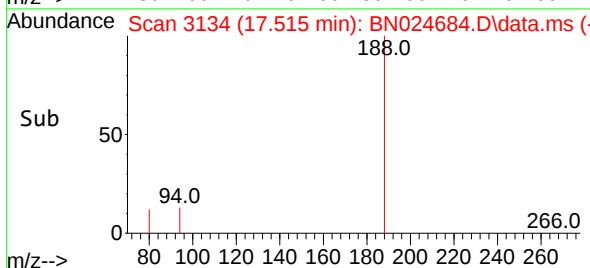
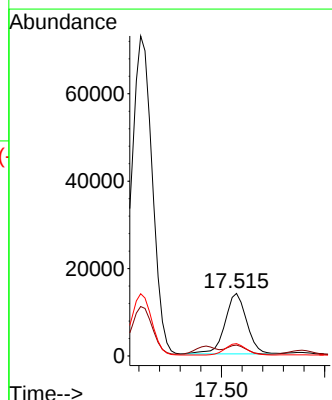
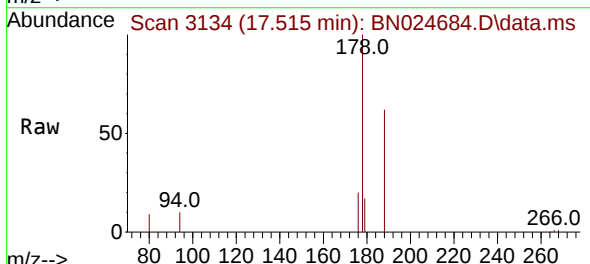
Manual Integrations  
APPROVED

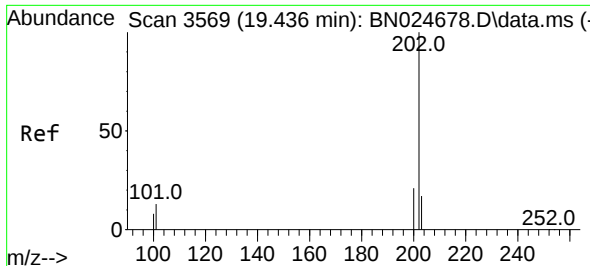
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023



#16  
Anthracene  
Concen: 0.268 ng/ul  
RT: 17.515 min Scan# 3134  
Delta R.T. 0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

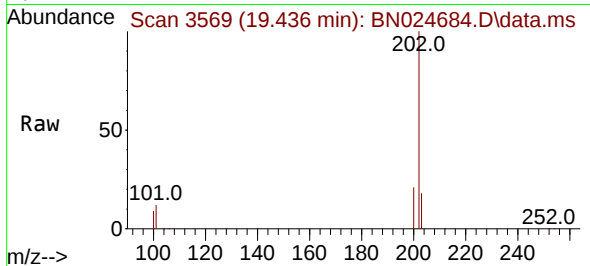
Tgt Ion:178 Resp: 20270  
Ion Ratio Lower Upper  
178 100  
179 17.4 12.7 19.1  
176 19.6 15.2 22.8





#19  
Fluoranthene  
Concen: 2.878 ng/ul  
RT: 19.436 min Scan# 3569  
Delta R.T. 0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

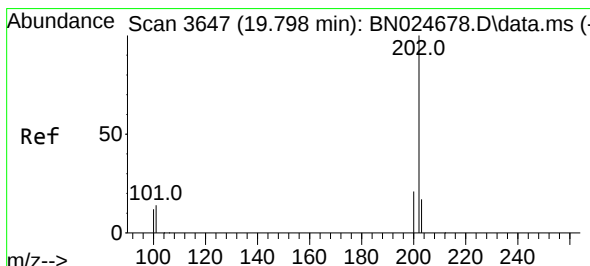
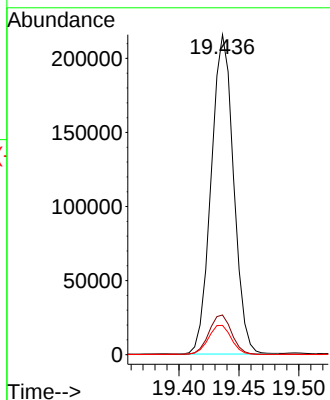
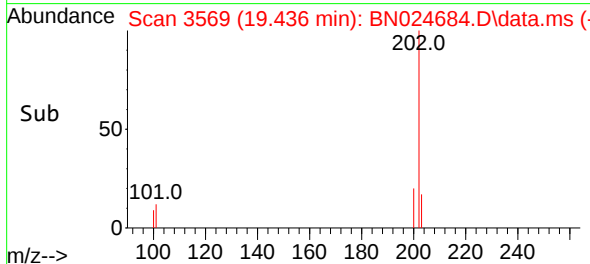
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



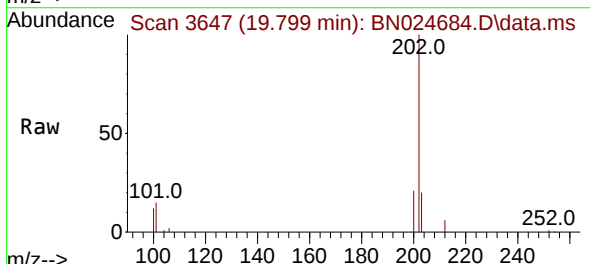
Tgt Ion:202 Resp: 280000  
Ion Ratio Lower Upper  
202 100  
101 12.4 9.6 14.4  
100 9.1 7.0 10.6

Manual Integrations  
APPROVED

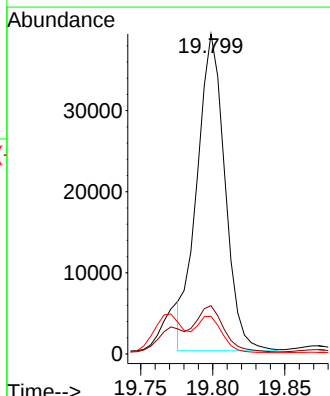
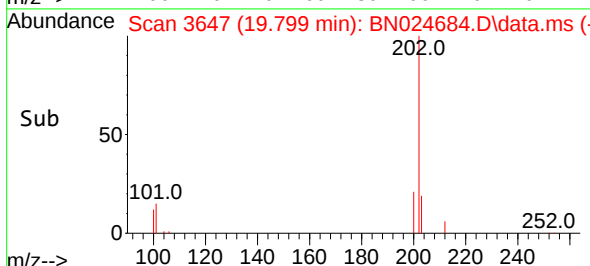
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023

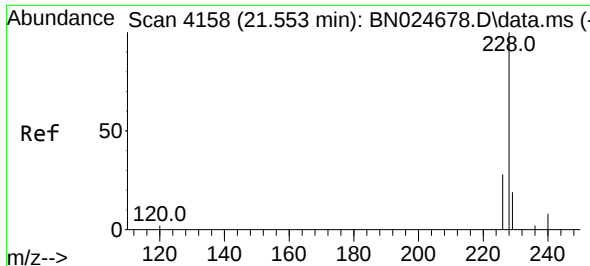


#20  
Pyrene  
Concen: 0.533 ng/ul m  
RT: 19.799 min Scan# 3647  
Delta R.T. 0.000 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06



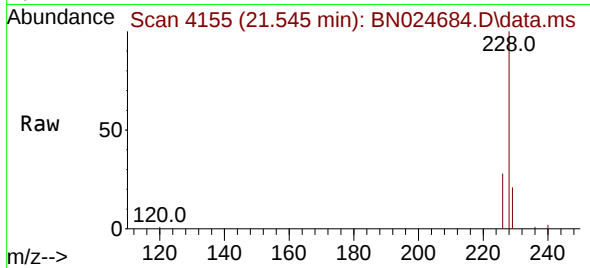
Tgt Ion:202 Resp: 52782  
Ion Ratio Lower Upper  
202 100  
101 15.1 10.9 16.3  
100 11.8 8.7 13.1





#21  
Benzo(a)anthracene  
Concen: 1.579 ng/ul  
RT: 21.545 min Scan# 4155  
Delta R.T. -0.008 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

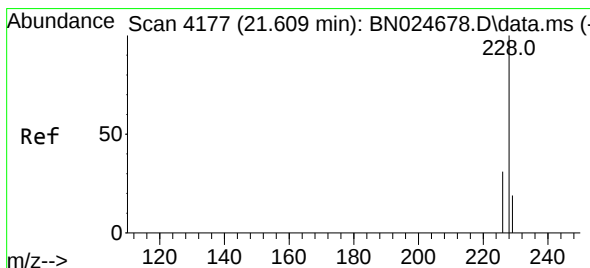
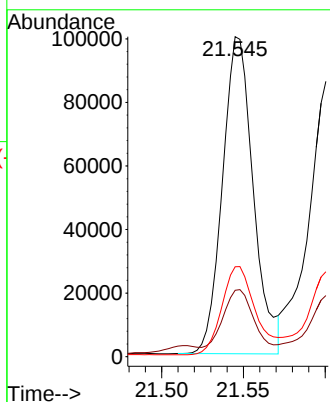
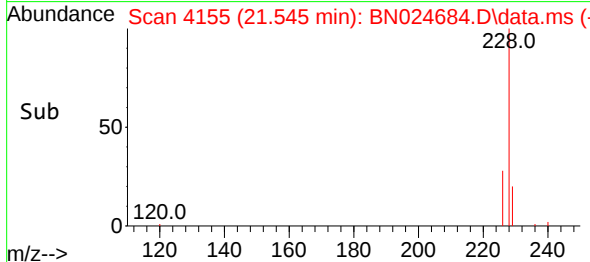
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



Tgt Ion:228 Resp: 130937  
Ion Ratio Lower Upper  
228 100  
229 20.8 15.6 23.4  
226 28.1 22.5 33.7

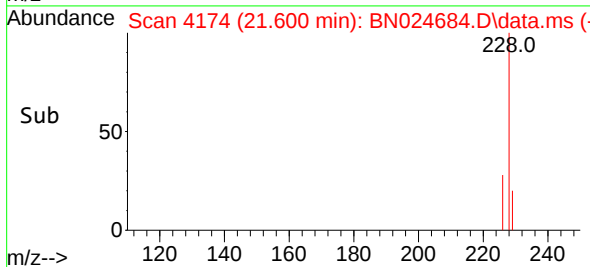
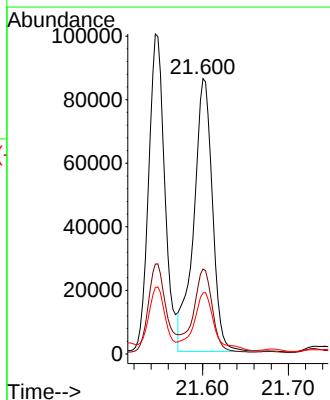
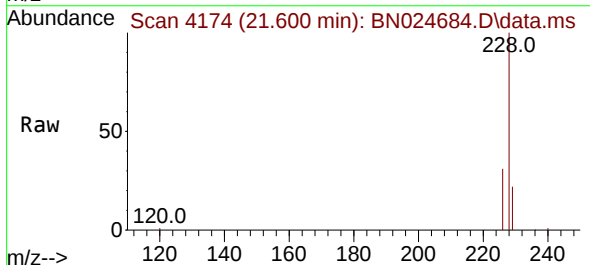
Manual Integrations  
APPROVED

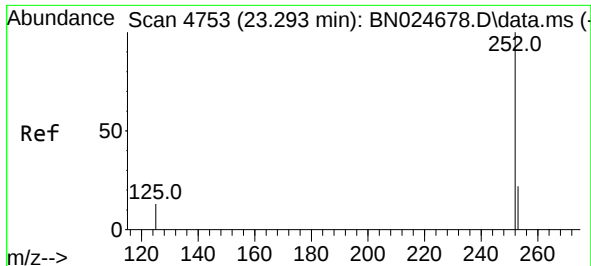
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023



#22  
Chrysene  
Concen: 1.426 ng/ul  
RT: 21.600 min Scan# 4174  
Delta R.T. -0.008 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

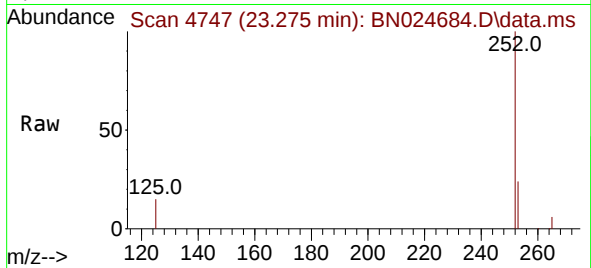
Tgt Ion:228 Resp: 130097  
Ion Ratio Lower Upper  
228 100  
226 30.9 24.6 37.0  
229 22.2 15.6 23.4





#24  
Benzo(b)fluoranthene  
Concen: 1.573 ng/ul m  
RT: 23.275 min Scan# 4753  
Delta R.T. -0.017 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

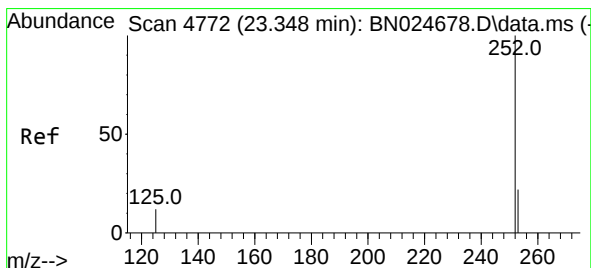
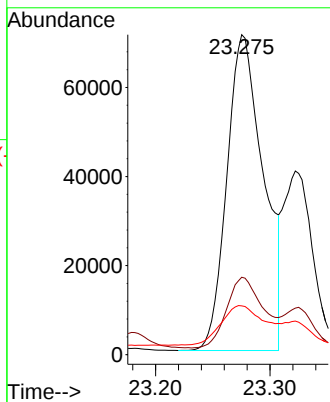
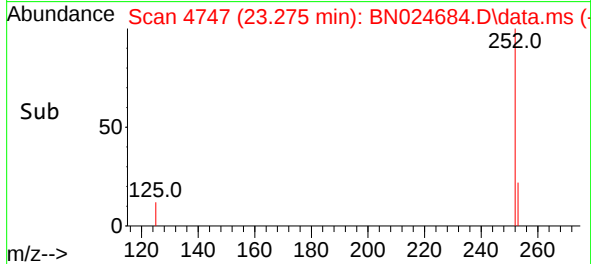
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



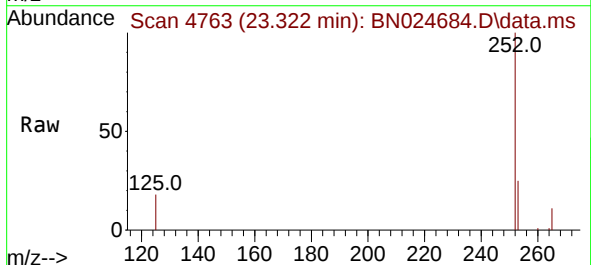
Tgt Ion:252 Resp: 157840  
Ion Ratio Lower Upper  
252 100  
253 24.2 0.0 49.6  
125 15.2 0.0 32.4

Manual Integrations  
APPROVED

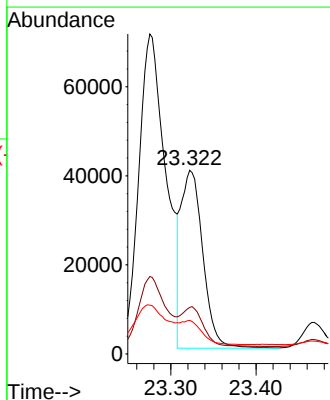
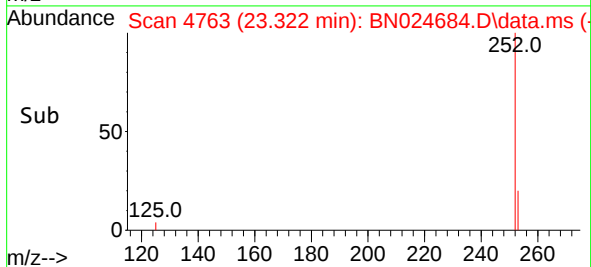
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023

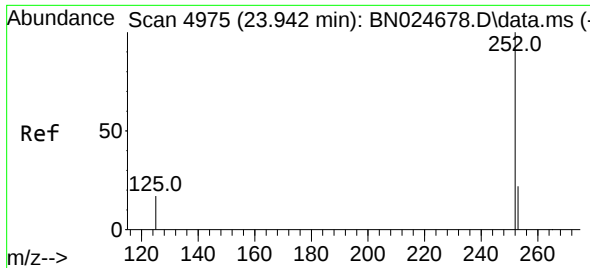


#25  
Benzo(k)fluoranthene  
Concen: 0.737 ng/ul m  
RT: 23.322 min Scan# 4763  
Delta R.T. -0.026 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06



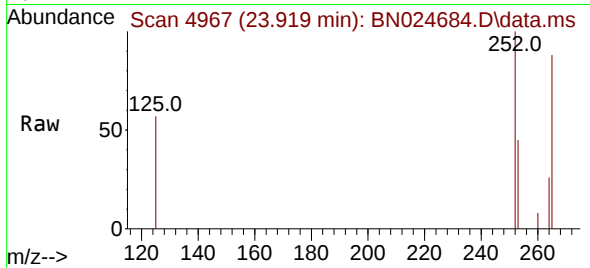
Tgt Ion:252 Resp: 71173  
Ion Ratio Lower Upper  
252 100  
253 25.3 20.2 30.2  
125 18.3 13.1 19.7





#26  
Benzo(a)pyrene  
Concen: 0.124 ng/ul  
RT: 23.919 min Scan# 4975  
Delta R.T. -0.023 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06

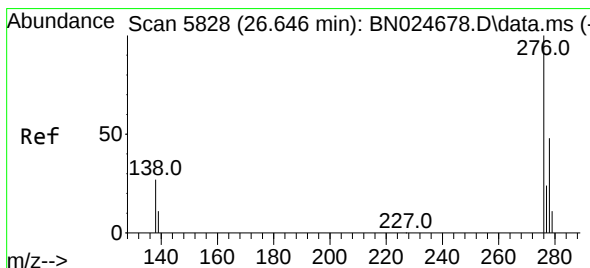
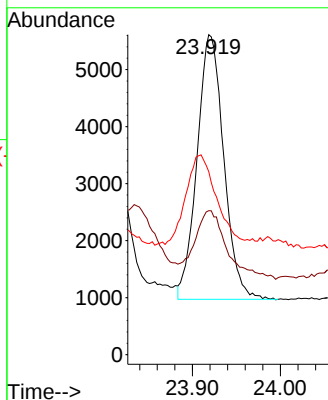
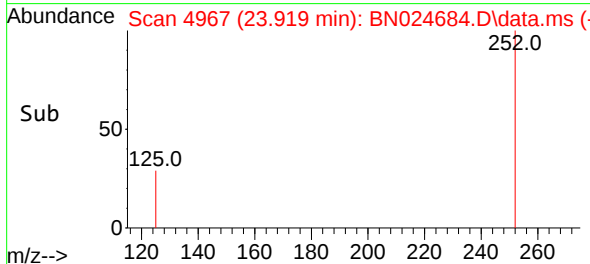
Instrument :  
BNA\_N  
ClientSampleId :  
CB948



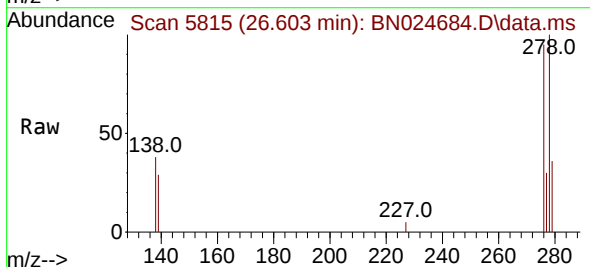
Tgt Ion:252 Resp: 980  
Ion Ratio Lower Upper  
252 100  
253 45.0 21.8 32.8  
125 57.2 15.4 23.0

Manual Integrations  
APPROVED

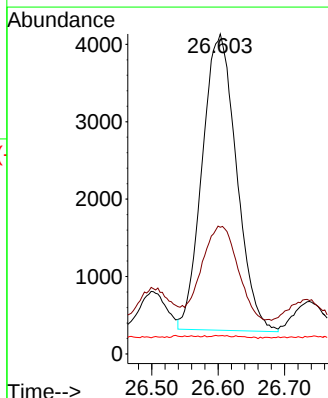
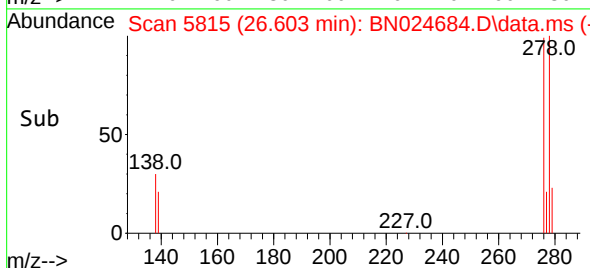
Reviewed By :Christian Giraldo 04/03/2023  
Supervised By :Jagrut Upadhyay 04/03/2023

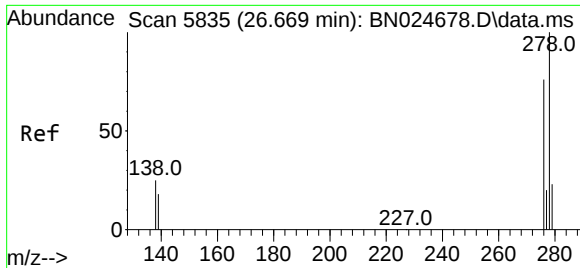


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.146 ng/ul  
RT: 26.603 min Scan# 5815  
Delta R.T. -0.043 min  
Lab File: BN024684.D  
Acq: 31 Mar 2023 18:06



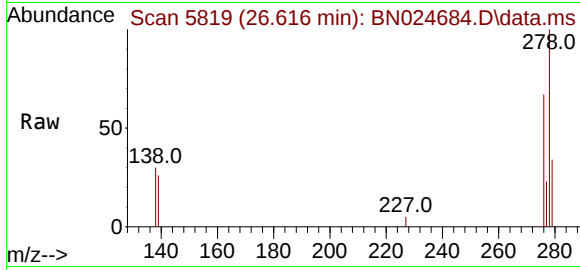
Tgt Ion:276 Resp: 13713  
Ion Ratio Lower Upper  
276 100  
138 33.8 24.6 36.8  
227 0.2 0.1 0.1





#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.225 ng/ul  
 RT: 26.616 min Scan# 5819  
 Delta R.T. -0.053 min  
 Lab File: BN024684.D  
 Acq: 31 Mar 2023 18:06

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB948



Tgt Ion: 278 Resp: 1691

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 26.5  | 16.5  | 24.7  |
| 279 | 33.8  | 21.8  | 32.8  |

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 04/03/2023  
 Supervised By : Jagrut Upadhyay 04/03/2023

