

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052924\  
 Data File : BN031700.D  
 Acq On : 29 May 2024 21:17  
 Operator : MA/JU  
 Sample : P2569-13  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH698

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024

Quant Time: May 29 23:41:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 15:13:07 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.687  | 152  | 495829   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.469 | 136  | 2242142  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.322 | 164  | 1430413  | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.069 | 188  | 2869098  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.304 | 240  | 1901354  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.233 | 264  | 1864977  | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.199  | 96   | 36164    | 3.017  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.599  | 84   | 241669   | 7.163  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.852  | 99   | 809357   | 19.041 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.022  | 67   | 465894   | 18.738 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.217  | 132  | 631699   | 19.477 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.387  | 113  | 616796   | 17.801 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.840  | 128  | 321137   | 18.732 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.558  | 143  | 322582   | 18.216 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.087 | 165  | 625345   | 18.915 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.605 | 131  | 396394   | 8.075  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.740 | 166  | 2019561  | 20.266 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.016 | 160  | 2282188  | 19.917 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.522 | 143  | 232131   | 11.634 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.322 | 176  | 1744809  | 20.693 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.440 | 200  | 181393   | 12.578 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.169 | 188  | 2564475  | 20.878 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.463 | 212  | 2780379  | 27.327 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.039 | 264  | 1940297  | 21.788 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 50) Acenaphthylene            | 14.046 | 152  | 254676   | 1.967  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.110 | 178  | 1526808  | 10.446 | ng/u1  | 98       |
| 74) Anthracene                | 17.204 | 178  | 284450   | 1.921  | ng/u1  | 98       |
| 77) Carbazole                 | 17.475 | 167  | 134153   | 1.062  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.134 | 202  | 3198431  | 26.304 | ng/u1  | 98       |
| 82) Pyrene                    | 19.492 | 202  | 2990134  | 23.968 | ng/u1  | 99       |
| 83) Butylbenzylphthalate      | 20.404 | 149  | 283963   | 4.819  | ng/u1  | 95       |
| 85) Benzo(a)anthracene        | 21.286 | 228  | 1341001  | 10.537 | ng/u1  | 94       |
| 86) Bis(2-ethylhexyl)phtha... | 21.216 | 149  | 537812   | 6.261  | ng/u1  | 99       |
| 87) Chrysene                  | 21.345 | 228  | 1527504  | 12.850 | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 23.316 | 252  | 1641020  | 14.721 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 23.363 | 252  | 700452m  | 6.403  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.098 | 252  | 1196381  | 11.459 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.533 | 276  | 862263   | 7.167  | ng/u1  | 95       |
| 95) Dibenzo(a,h)anthracene    | 27.586 | 278  | 228006m  | 2.321  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 28.568 | 276  | 843773   | 8.823  | ng/u1  | 100      |
| -----                         |        |      |          |        |        |          |

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

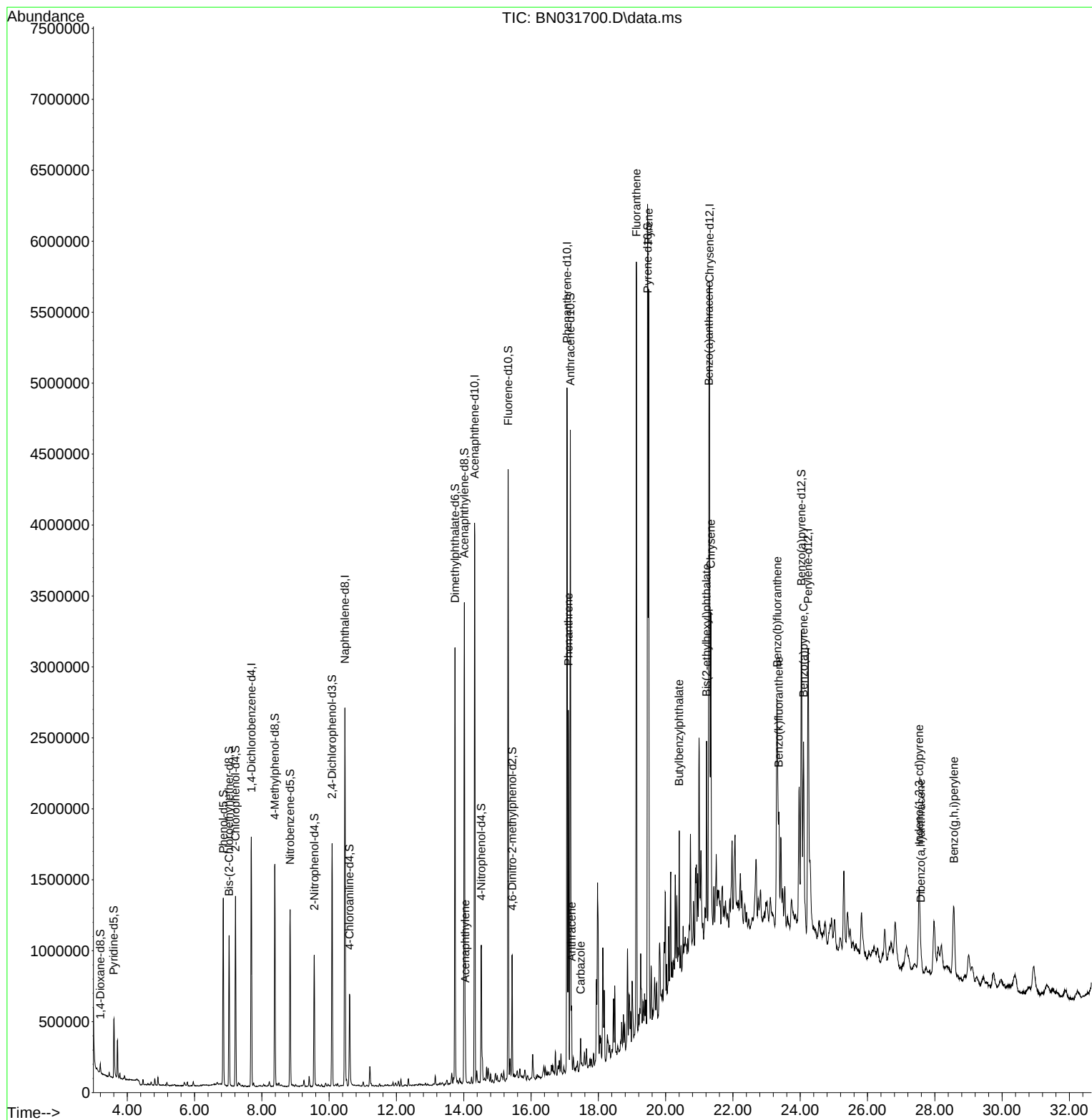
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052924\  
 Data File : BN031700.D  
 Acq On : 29 May 2024 21:17  
 Operator : MA/JU  
 Sample : P2569-13  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

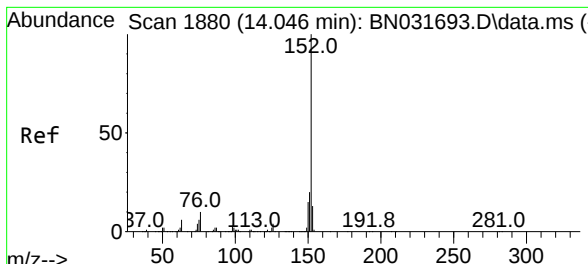
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH698

Quant Time: May 29 23:41:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 15:13:07 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024





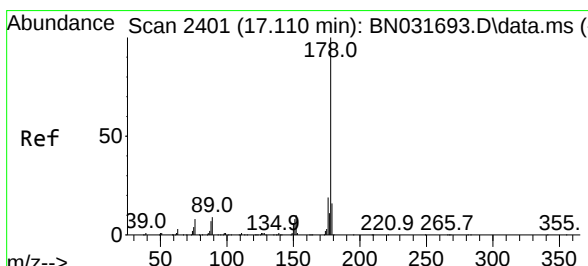
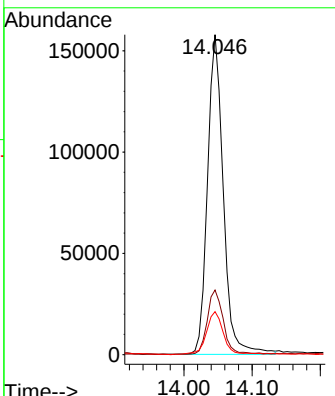
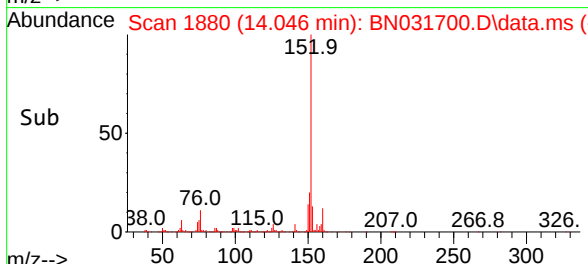
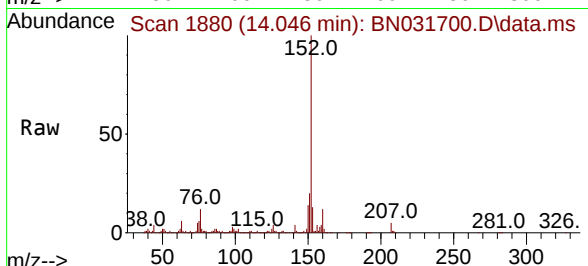
#50  
 Acenaphthylene  
 Concen: 1.967 ng/ul  
 RT: 14.046 min Scan# 1880  
 Delta R.T. 0.000 min  
 Lab File: BN031700.D  
 Acq: 29 May 2024 21:17

Instrument : BNA\_N  
 ClientSampleId : BH698

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 254670 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.2  | 15.9  | 23.9   |
| 153       | 13.5  | 10.4  | 15.6   |

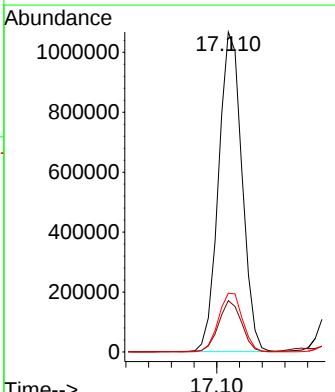
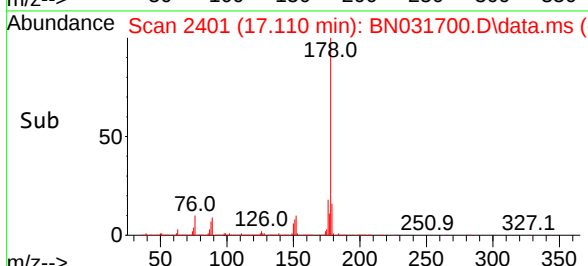
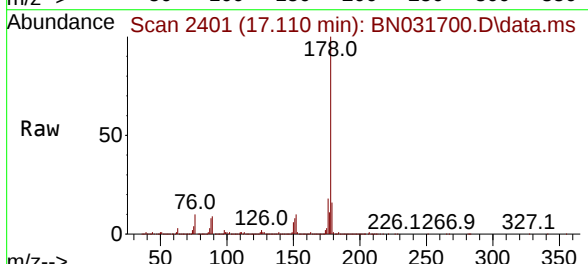
Manual Integrations  
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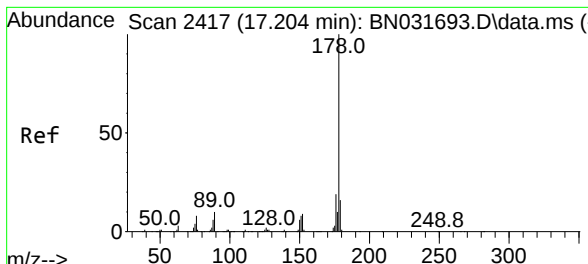
Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024



#72  
 Phenanthrene  
 Concen: 10.446 ng/ul  
 RT: 17.110 min Scan# 2401  
 Delta R.T. -0.006 min  
 Lab File: BN031700.D  
 Acq: 29 May 2024 21:17

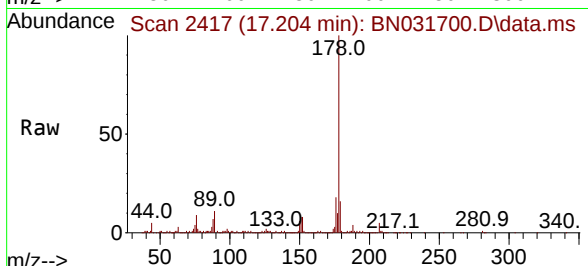
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1526808 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 16.0  | 12.6  | 19.0    |
| 176       | 18.3  | 15.8  | 23.6    |





#74  
 Anthracene  
 Concen: 1.921 ng/ul  
 RT: 17.204 min Scan# 2417  
 Delta R.T. 0.000 min  
 Lab File: BN031700.D  
 Acq: 29 May 2024 21:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH698

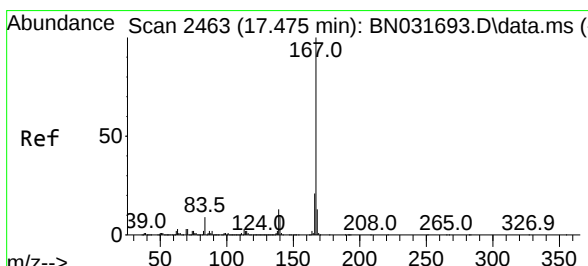
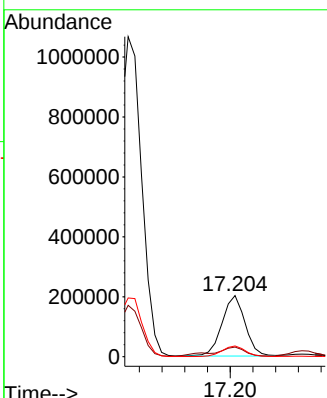
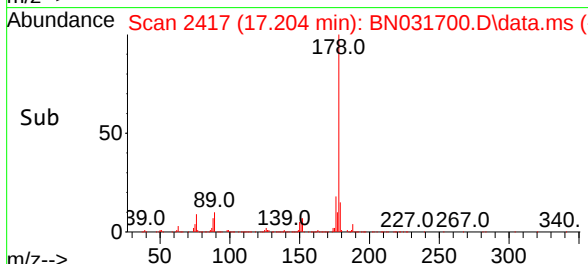


Tgt Ion:178 Resp: 284450

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.8  | 11.8  | 17.6  |
| 176 | 17.6  | 14.8  | 22.2  |

Manual Integrations  
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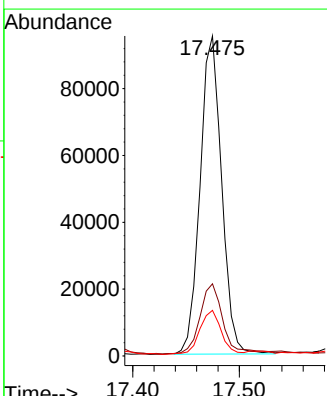
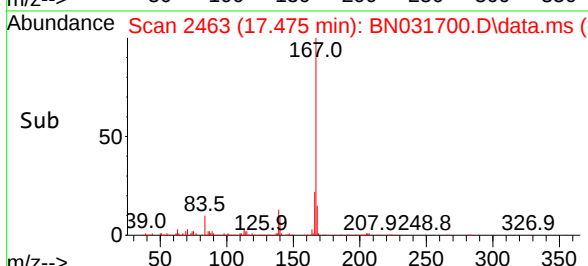
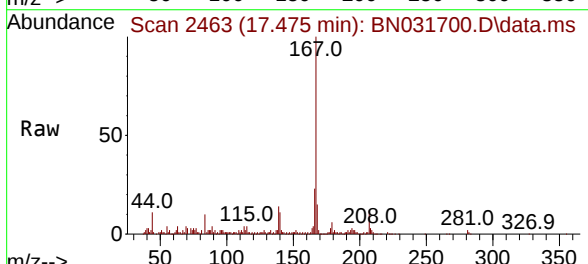
Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024

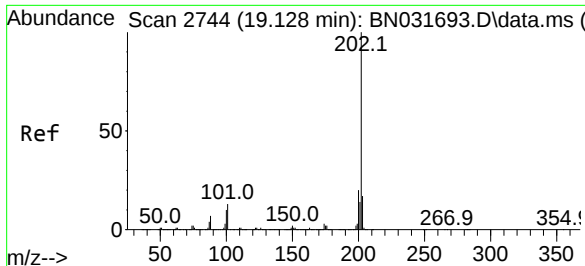


#77  
 Carbazole  
 Concen: 1.062 ng/ul  
 RT: 17.475 min Scan# 2463  
 Delta R.T. 0.000 min  
 Lab File: BN031700.D  
 Acq: 29 May 2024 21:17

Tgt Ion:167 Resp: 134153

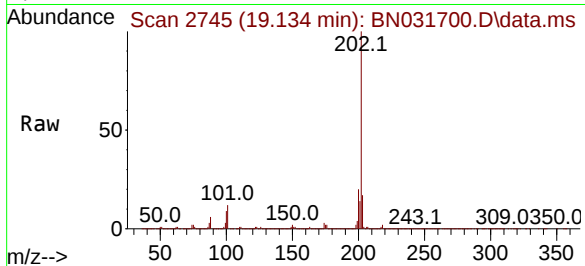
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 22.6  | 17.9  | 26.9  |
| 139 | 14.3  | 10.5  | 15.7  |





#80  
Fluoranthene  
Concen: 26.304 ng/ul  
RT: 19.134 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

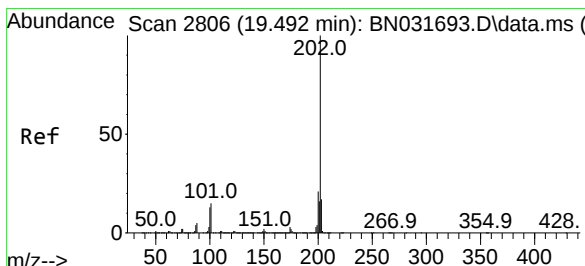
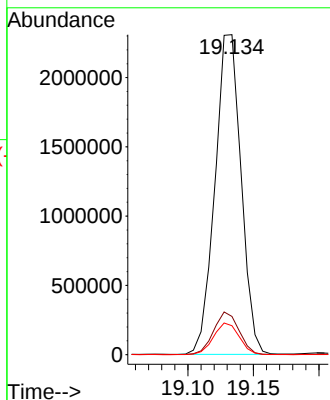
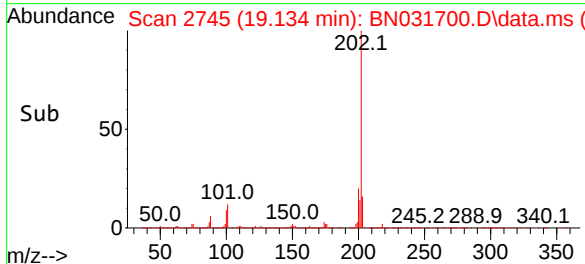
Instrument :  
BNA\_N  
ClientSampleId :  
BH698



Tgt Ion:202 Resp: 319843  
Ion Ratio Lower Upper  
202 100  
101 11.9 10.3 15.5  
100 9.1 8.0 12.0

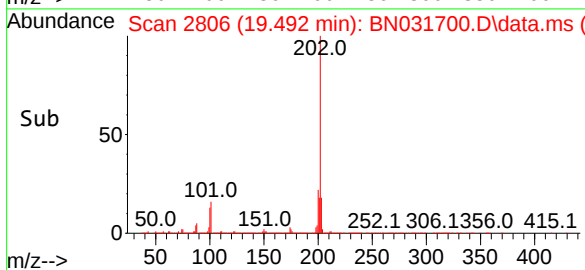
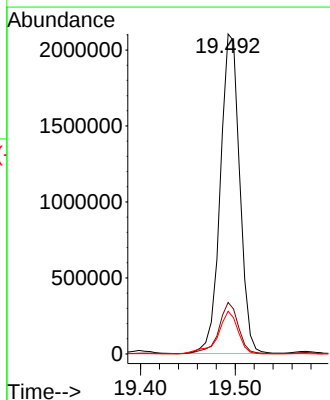
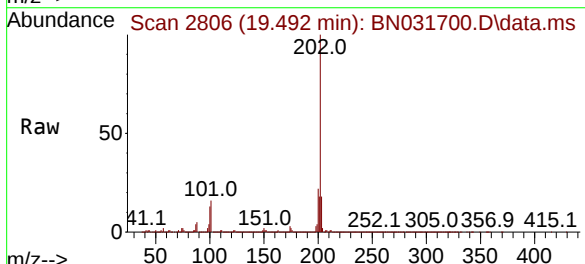
Manual Integrations  
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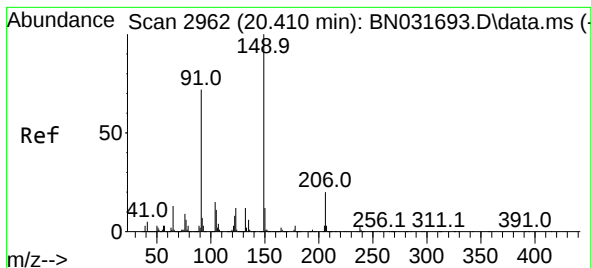
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#82  
Pyrene  
Concen: 23.968 ng/ul  
RT: 19.492 min Scan# 2806  
Delta R.T. 0.000 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

Tgt Ion:202 Resp: 2990134  
Ion Ratio Lower Upper  
202 100  
101 16.1 12.6 18.8  
100 13.4 10.2 15.2





#83

Butylbenzylphthalate

Concen: 4.819 ng/ul

RT: 20.404 min Scan# 2962

Delta R.T. 0.000 min

Lab File: BN031700.D

Acq: 29 May 2024 21:17

Instrument :

BNA\_N

ClientSampleId :

BH698

Tgt Ion:149 Resp: 28396

Ion Ratio Lower Upper

149 100

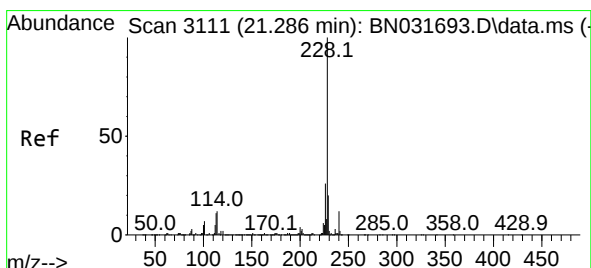
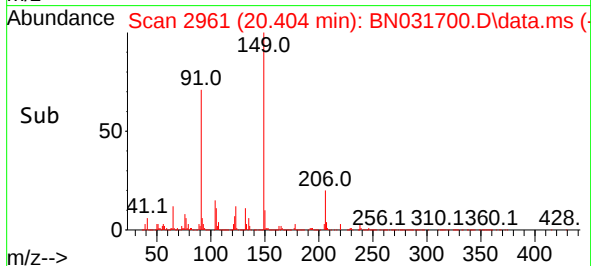
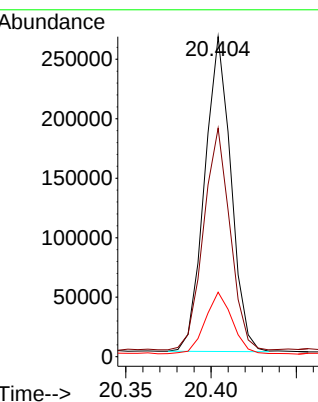
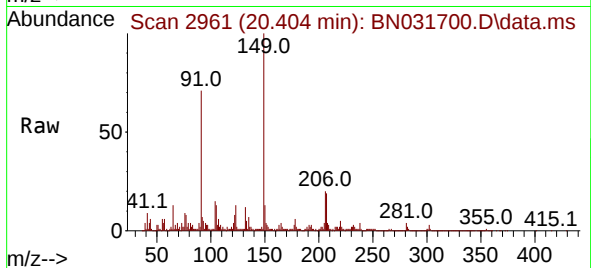
91 71.4 61.0 91.4

206 20.2 16.5 24.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#85

Benzo(a)anthracene

Concen: 10.537 ng/ul

RT: 21.286 min Scan# 3111

Delta R.T. 0.000 min

Lab File: BN031700.D

Acq: 29 May 2024 21:17

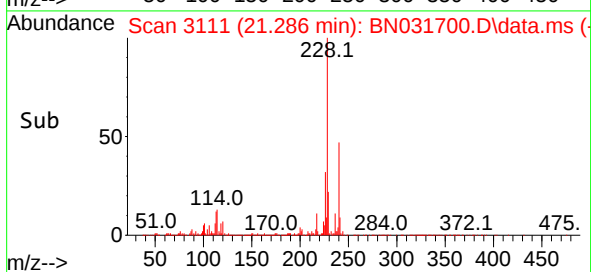
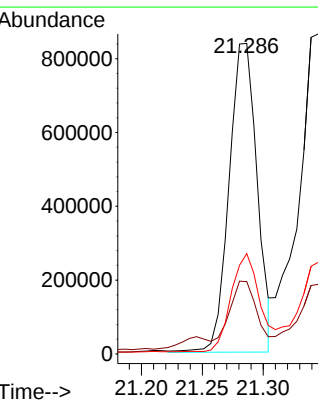
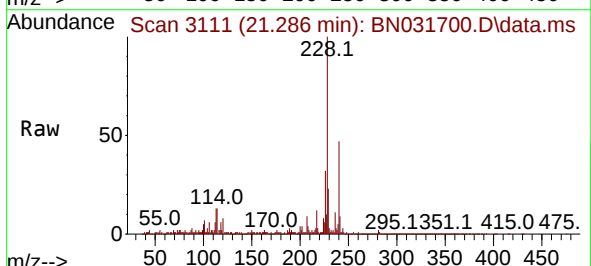
Tgt Ion:228 Resp: 1341001

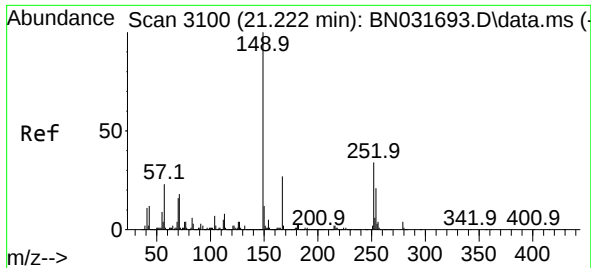
Ion Ratio Lower Upper

228 100

229 23.3 16.7 25.1

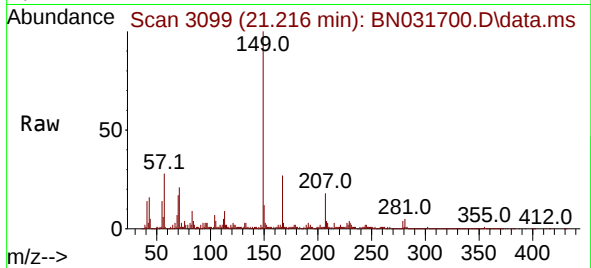
226 32.3 22.8 34.2





#86  
Bis(2-ethylhexyl)phthalate  
Concen: 6.261 ng/ul  
RT: 21.216 min Scan# 3099  
Delta R.T. -0.006 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

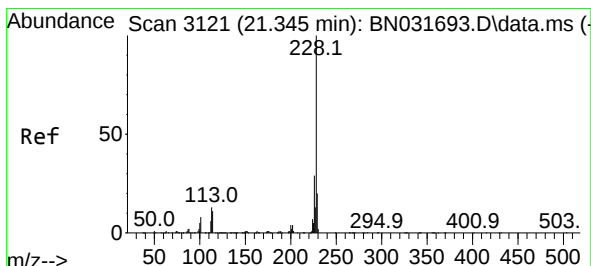
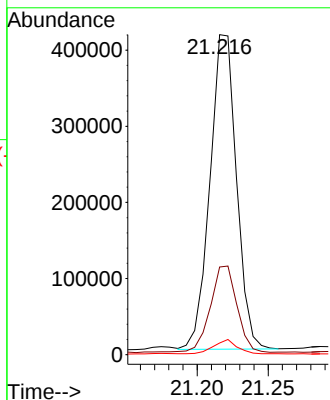
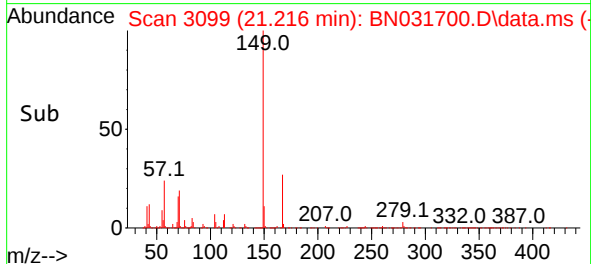
Instrument :  
BNA\_N  
ClientSampleId :  
BH698



Tgt Ion:149 Resp: 53781  
Ion Ratio Lower Upper  
149 100  
167 27.4 21.4 32.0  
279 3.6 3.3 4.9

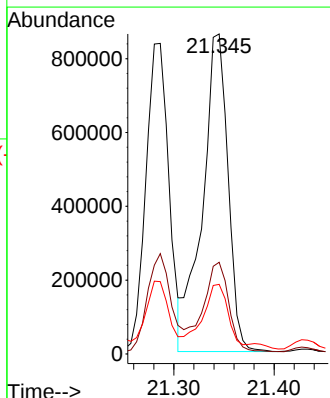
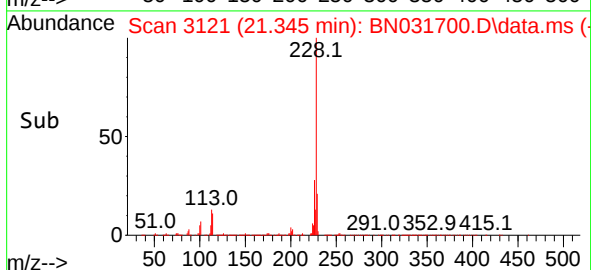
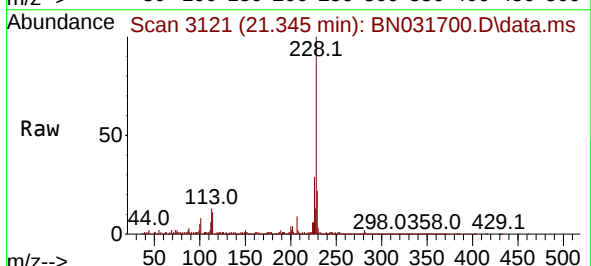
Manual Integrations  
APPROVED

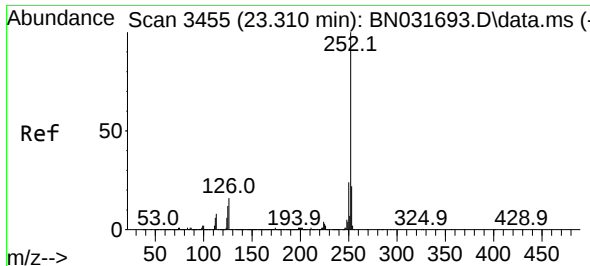
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#87  
Chrysene  
Concen: 12.850 ng/ul  
RT: 21.345 min Scan# 3121  
Delta R.T. -0.006 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

Tgt Ion:228 Resp: 1527504  
Ion Ratio Lower Upper  
228 100  
226 28.6 23.7 35.5  
229 21.8 15.1 22.7





#90  
Benzo(b)fluoranthene  
Concen: 14.721 ng/ul  
RT: 23.316 min Scan# 3455  
Delta R.T. 0.006 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

Instrument :

BNA\_N

ClientSampleId :

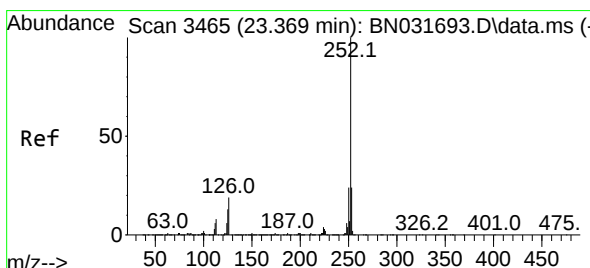
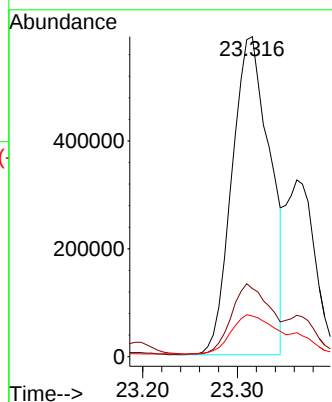
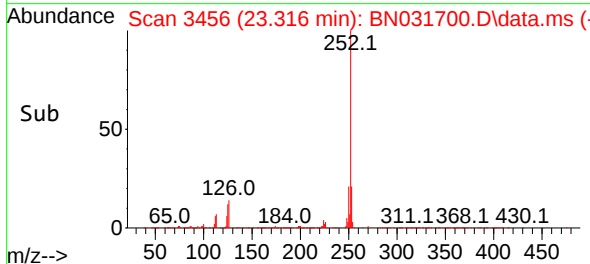
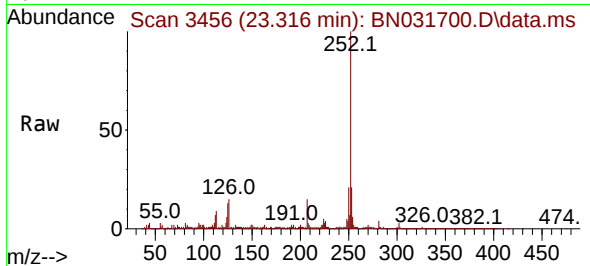
BH698

Tgt Ion:252 Resp: 1641020  
Ion Ratio Lower Upper  
252 100  
253 21.3 17.0 25.6  
125 12.7 9.2 13.8

Manual Integrations

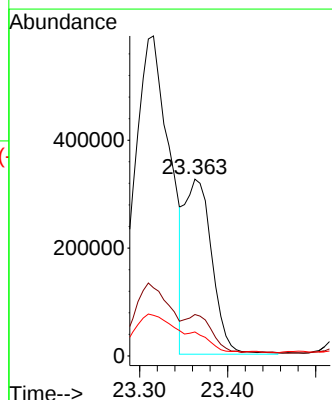
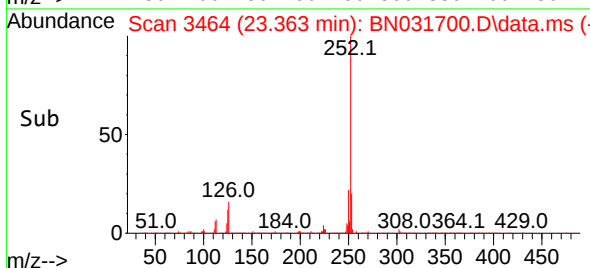
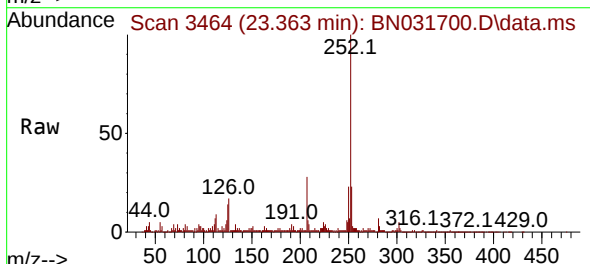
APPROVED

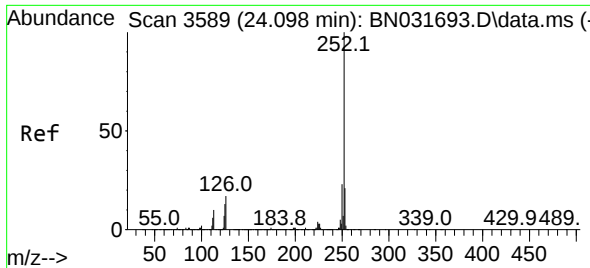
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#91  
Benzo(k)fluoranthene  
Concen: 6.403 ng/ul m  
RT: 23.363 min Scan# 3464  
Delta R.T. -0.012 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

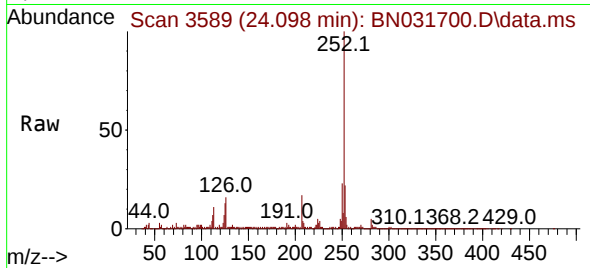
Tgt Ion:252 Resp: 700452  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.6 26.4  
125 13.6 9.4 14.2





#93  
Benzo(a)pyrene  
Concen: 11.459 ng/ul  
RT: 24.098 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

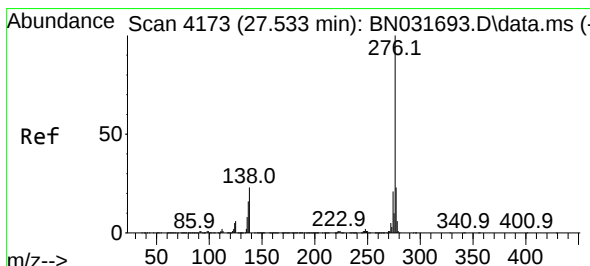
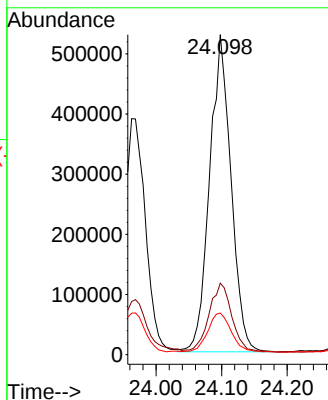
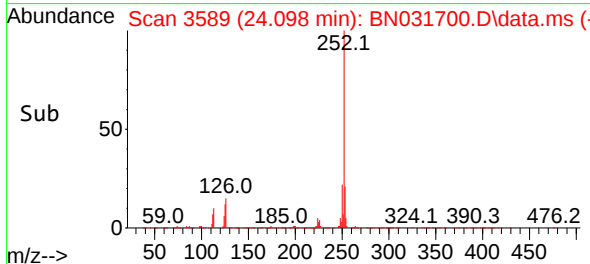
Instrument :  
BNA\_N  
ClientSampleId :  
BH698



Tgt Ion:252 Resp: 119638  
Ion Ratio Lower Upper  
252 100  
253 22.3 16.6 24.8  
125 13.0 9.8 14.8

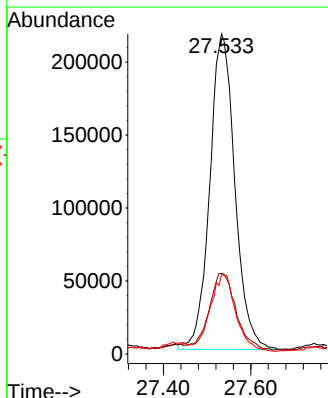
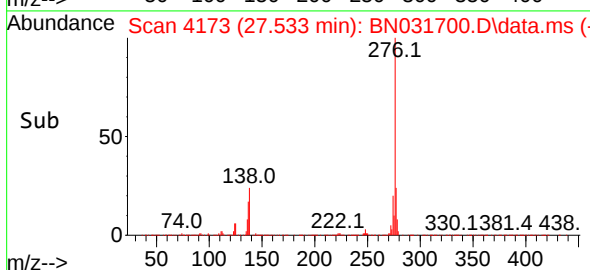
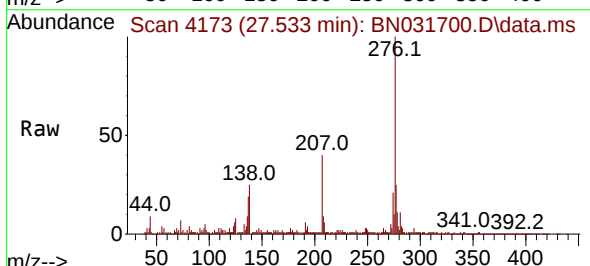
Manual Integrations  
APPROVED

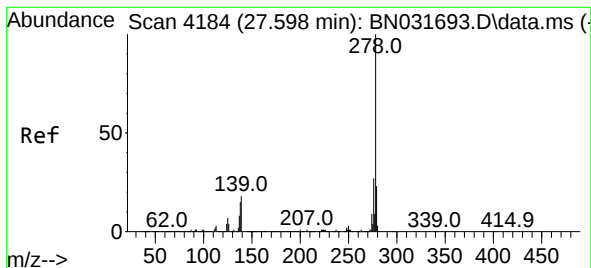
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 7.167 ng/ul  
RT: 27.533 min Scan# 4173  
Delta R.T. 0.000 min  
Lab File: BN031700.D  
Acq: 29 May 2024 21:17

Tgt Ion:276 Resp: 862263  
Ion Ratio Lower Upper  
276 100  
138 25.1 18.1 27.1  
277 25.0 18.2 27.2





#95

Dibenzo(a,h)anthracene

Concen: 2.321 ng/ul m

RT: 27.586 min Scan# 4184

Delta R.T. -0.018 min

Lab File: BN031700.D

Acq: 29 May 2024 21:17

Instrument :

BNA\_N

ClientSampleId :

BH698

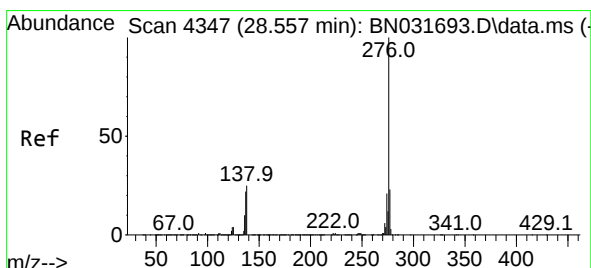
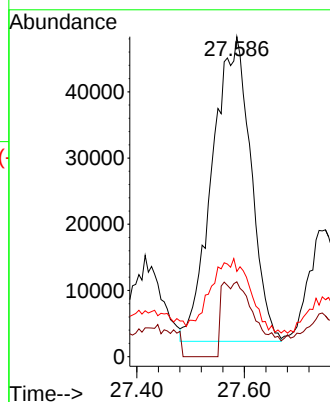
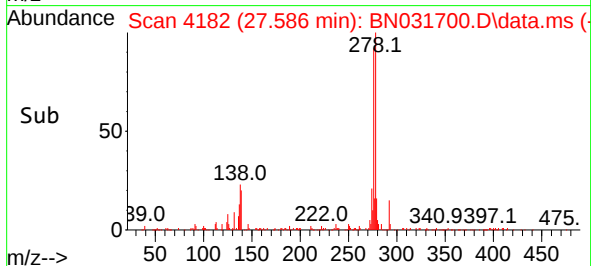
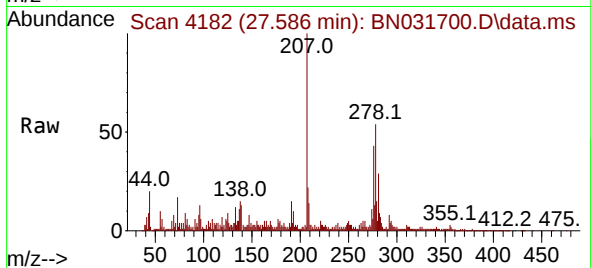
Tgt Ion:278 Resp: 228000

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 23.4  | 15.0  | 22.6  |
| 279 | 26.6  | 17.4  | 26.0  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#96

Benzo(g,h,i)perylene

Concen: 8.823 ng/ul

RT: 28.568 min Scan# 4349

Delta R.T. 0.000 min

Lab File: BN031700.D

Acq: 29 May 2024 21:17

Tgt Ion:276 Resp: 843773

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 26.2  | 20.9  | 31.3  |
| 277 | 22.1  | 18.0  | 27.0  |

