

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120221\  
 Data File : BG051334.D  
 Acq On : 3 Dec 2021 18:03  
 Operator : CG/JU  
 Sample : M4833-08  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ESQM8

Quant Time: Dec 03 23:36:45 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG112321.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 03 15:23:09 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/06/2021  
 Supervised By :mohammad ahmed 12/07/2021

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.194  | 152  | 31503    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.020 | 136  | 136210   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.827 | 164  | 89787    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.571 | 188  | 188446   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.872 | 240  | 162323   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 25.274 | 264  | 162190   | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.529  | 96   | 4079     | 4.500  | ng/uL  | -0.02    |
| 4) Pyridine-d5                | 3.964  | 84   | 41905    | 15.753 | ng/u1  | -0.02    |
| 7) Phenol-d5                  | 7.354  | 99   | 85644    | 27.507 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.506  | 67   | 55426    | 28.344 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.724  | 132  | 63554    | 28.346 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.905  | 113  | 61741    | 24.573 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.369  | 128  | 34839    | 30.300 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.098 | 143  | 38720    | 29.853 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.644 | 165  | 65477    | 29.753 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.161 | 131  | 57312    | 17.799 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.216 | 166  | 217155   | 31.433 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.522 | 160  | 275778   | 31.656 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.051 | 143  | 29593    | 26.463 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.814 | 176  | 192181   | 30.891 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.949 | 200  | 23641    | 20.330 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.671 | 188  | 295449   | 32.781 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.957 | 212  | 337917   | 34.405 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.045 | 264  | 295704   | 34.138 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 52) Acenaphthene              | 14.892 | 153  | 7816     | 1.377  | ng/u1  | 97       |
| 61) Fluorene                  | 15.867 | 166  | 11019    | 1.680  | ng/u1  | 96       |
| 72) Phenanthrene              | 17.618 | 178  | 166508   | 16.003 | ng/u1  | 100      |
| 74) Anthracene                | 17.706 | 178  | 39330    | 3.806  | ng/u1  | 98       |
| 77) Carbazole                 | 17.982 | 167  | 11507    | 1.269  | ng/u1  | 96       |
| 80) Fluoranthene              | 19.622 | 202  | 299778   | 24.850 | ng/u1  | 96       |
| 82) Pyrene                    | 19.980 | 202  | 246633   | 20.900 | ng/u1  | 97       |
| 85) Benzo(a)anthracene        | 21.854 | 228  | 135308   | 12.290 | ng/u1  | 99       |
| 87) Chrysene                  | 21.925 | 228  | 118375   | 11.192 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 24.187 | 252  | 160875   | 14.698 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 24.252 | 252  | 44124m   | 4.296  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 25.115 | 252  | 110967   | 10.627 | ng/u1  | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.175 | 276  | 72596    | 6.213  | ng/u1  | 98       |
| 95) Dibenzo(a,h)anthracene    | 29.234 | 278  | 20605m   | 2.078  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 30.415 | 276  | 43166    | 4.391  | ng/u1  | 97       |
| -----                         |        |      |          |        |        |          |

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

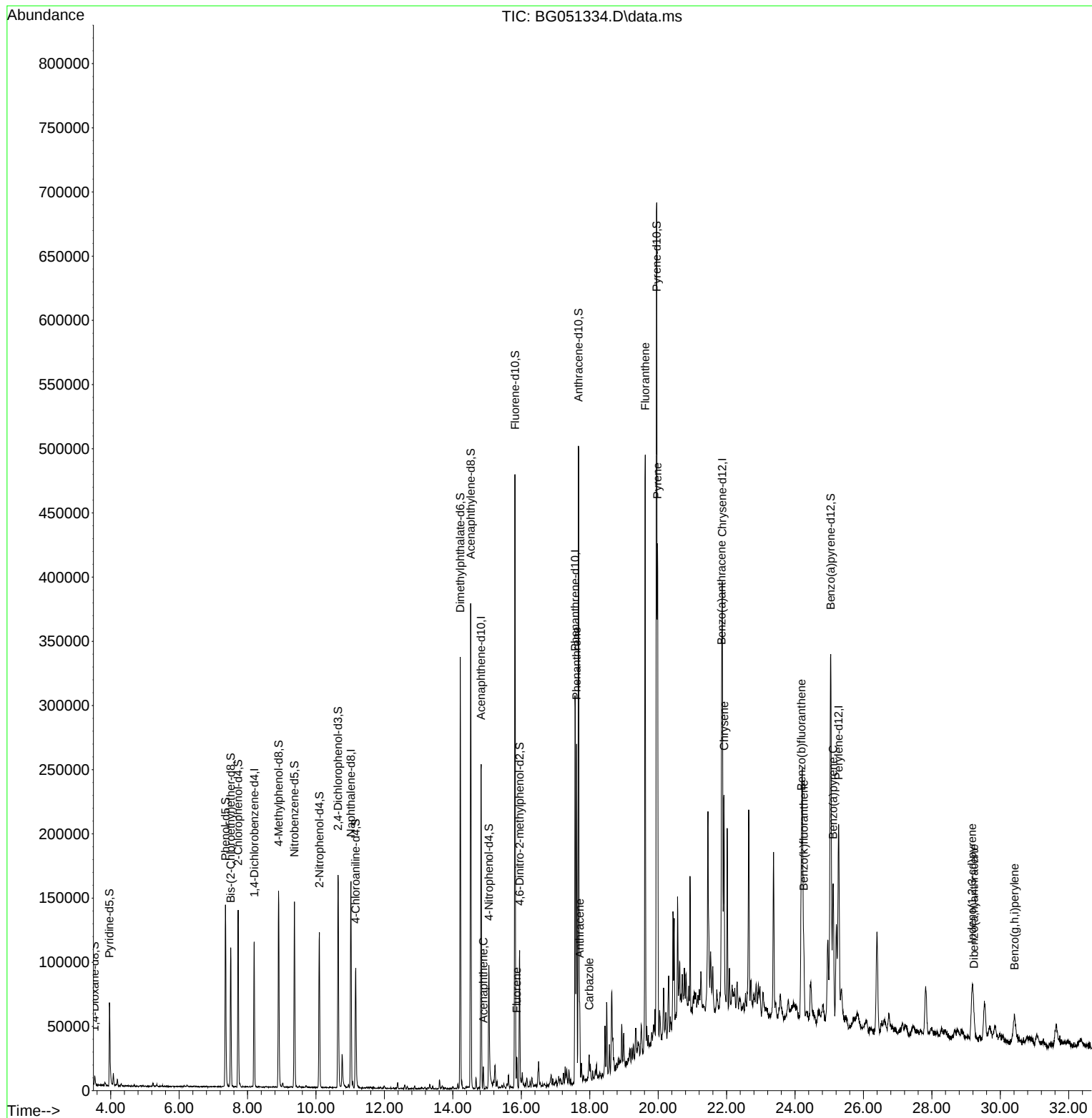
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120221\  
 Data File : BG051334.D  
 Acq On : 3 Dec 2021 18:03  
 Operator : CG/JU  
 Sample : M4833-08  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

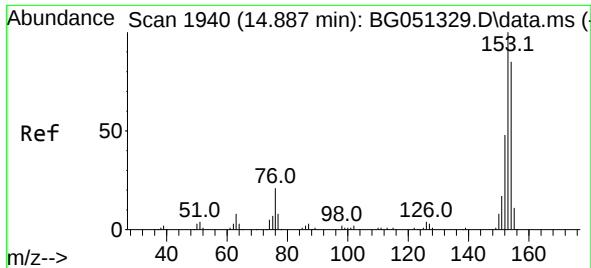
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ESQM8

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/06/2021  
 Supervised By :mohammad ahmed 12/07/2021

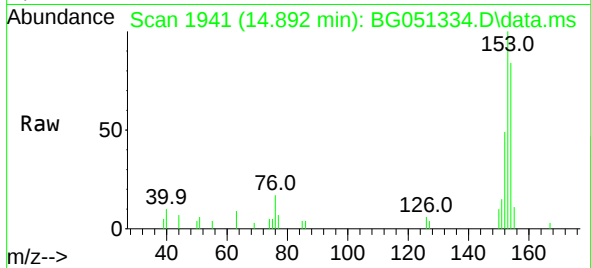
Quant Time: Dec 03 23:36:45 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG112321.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 03 15:23:09 2021  
 Response via : Initial Calibration





#52  
Acenaphthene  
Concen: 1.377 ng/ul  
RT: 14.892 min Scan# 1941  
Delta R.T. -0.003 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

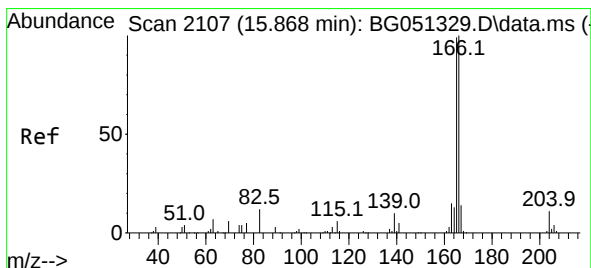
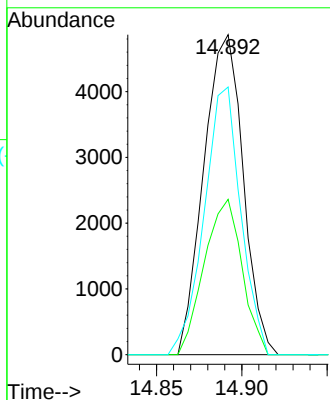
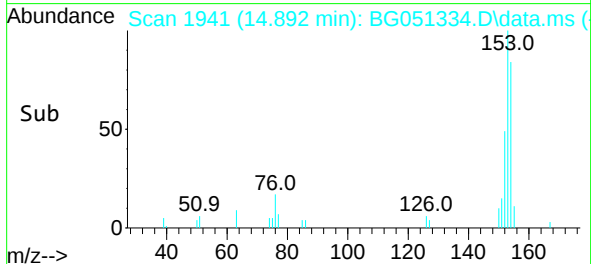
Instrument :  
BNA\_G  
ClientSampleId :  
ESQM8



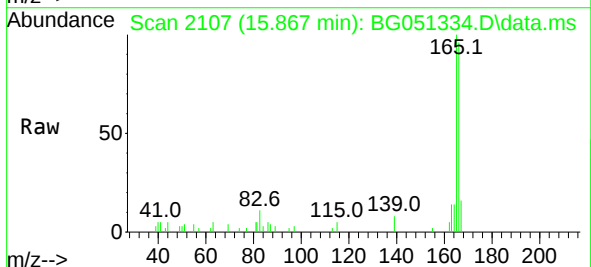
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Ion Ratio Lower Upper  
153 100  
152 48.5 36.5 54.7  
154 83.7 65.8 98.6

Manual Integrations  
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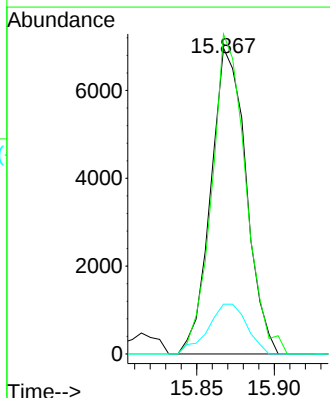
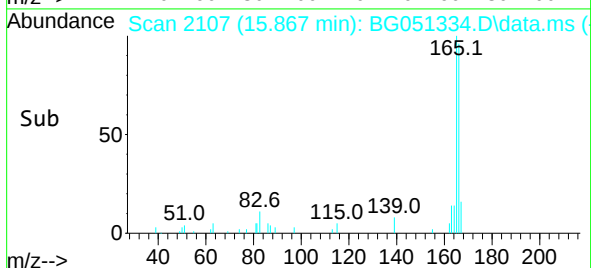
Reviewed By :Jagrut Upadhyay 12/06/2021  
Supervised By :mohammad ahmed 12/07/2021

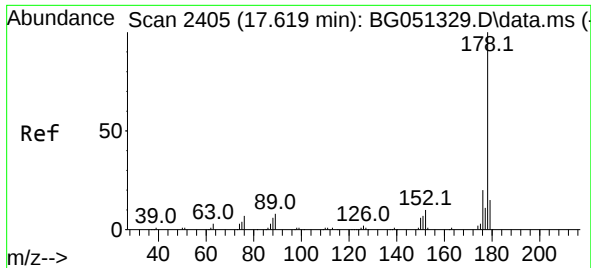


#61  
Fluorene  
Concen: 1.680 ng/ul  
RT: 15.867 min Scan# 2107  
Delta R.T. -0.009 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03



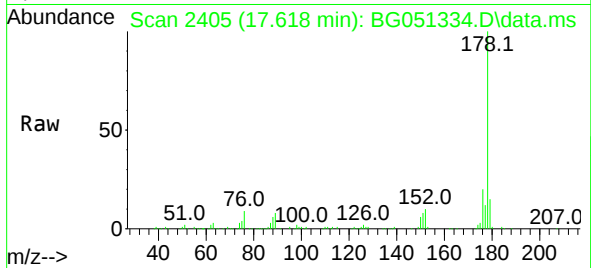
Tgt Ion:166 Resp: 11019  
Ion Ratio Lower Upper  
166 100  
165 104.6 81.0 121.6  
167 16.2 11.0 16.4





#72  
Phenanthrene  
Concen: 16.003 ng/u1  
RT: 17.618 min Scan# 2405  
Delta R.T. -0.003 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

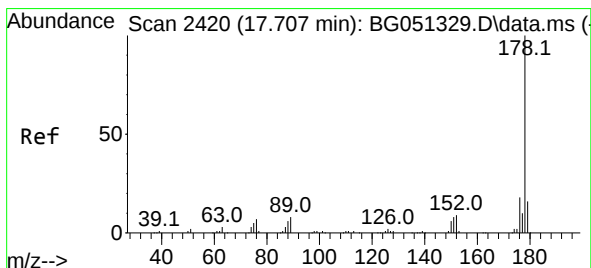
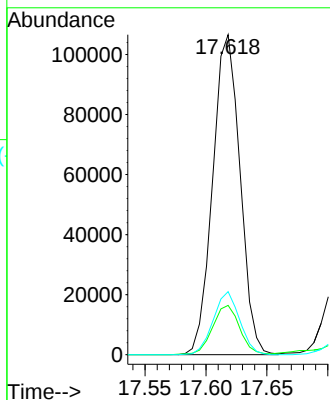
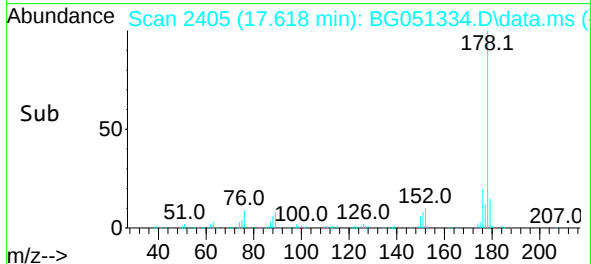
Instrument :  
BNA\_G  
ClientSampleId :  
ESQM8



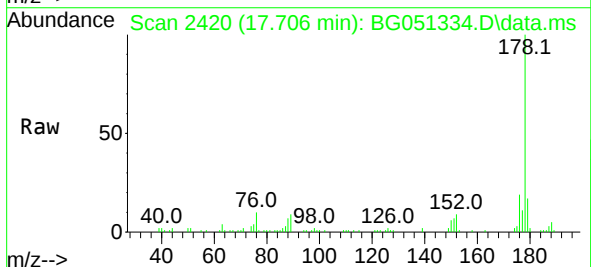
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Ion Ratio Lower Upper  
178 100  
179 15.4 12.3 18.5  
176 19.7 15.5 23.3

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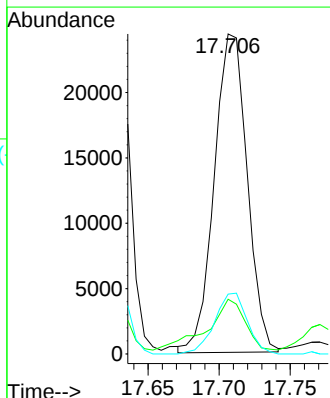
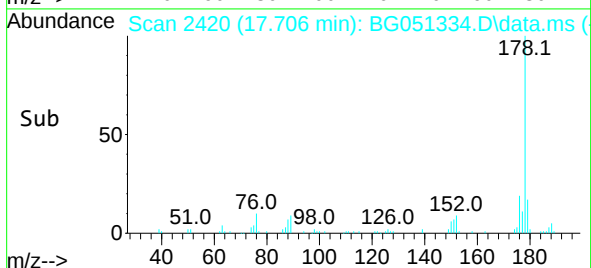
Reviewed By :Jagrut Upadhyay 12/06/2021  
Supervised By :mohammad ahmed 12/07/2021

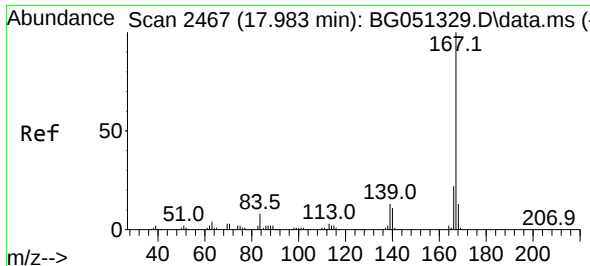


#74  
Anthracene  
Concen: 3.806 ng/u1  
RT: 17.706 min Scan# 2420  
Delta R.T. -0.009 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03



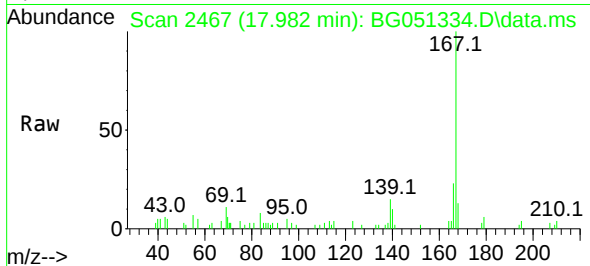
Tgt Ion:178 Resp: 39330  
Ion Ratio Lower Upper  
178 100  
179 17.1 13.0 19.6  
176 18.7 15.6 23.4





#77  
 Carbazole  
 Concen: 1.269 ng/ul  
 RT: 17.982 min Scan# 2467  
 Delta R.T. -0.003 min  
 Lab File: BG051334.D  
 Acq: 3 Dec 2021 18:03

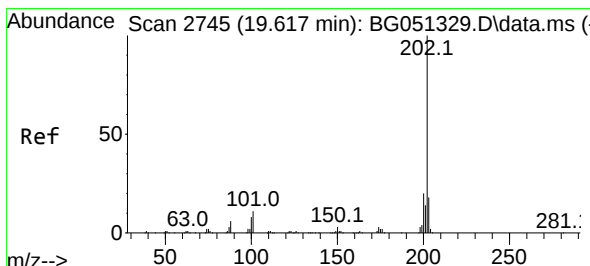
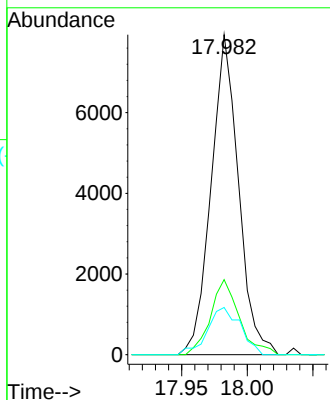
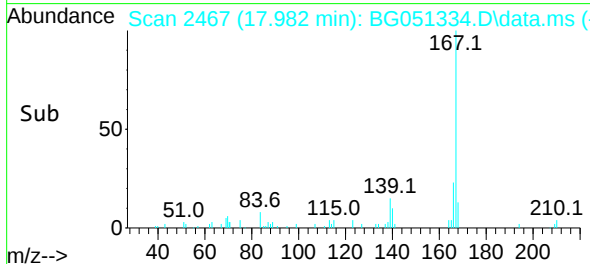
Instrument :  
 BNA\_G  
 ClientSampleId :  
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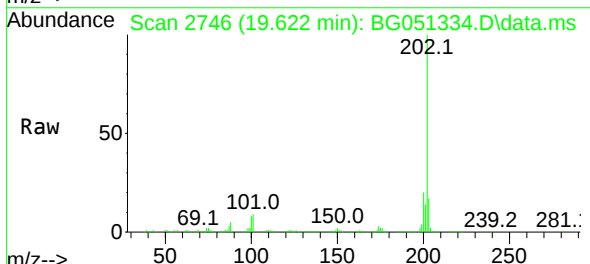
Tgt Ion:167 Resp: 1150  
 Ion Ratio Lower Upper  
 167 100  
 166 23.5 17.3 25.9  
 139 14.7 10.6 16.0

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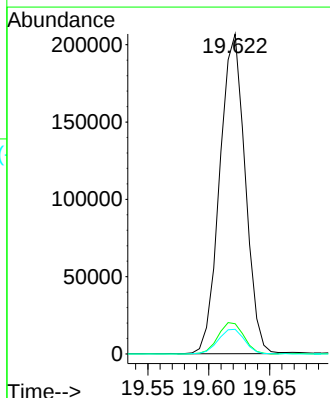
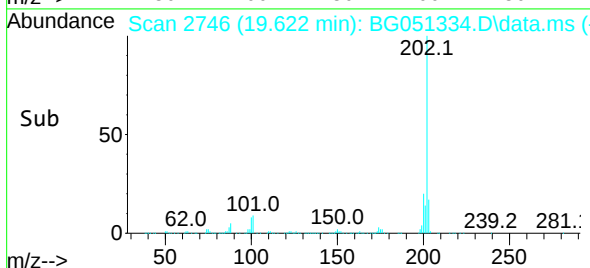
Reviewed By :Jagrut Upadhyay 12/06/2021  
 Supervised By :mohammad ahmed 12/07/2021

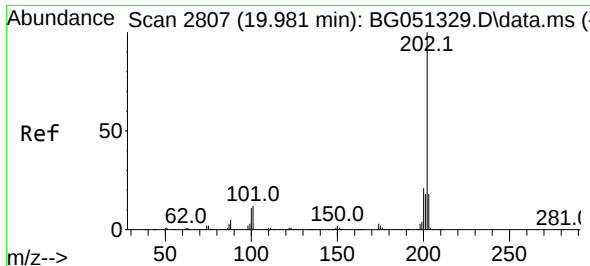


#80  
 Fluoranthene  
 Concen: 24.850 ng/ul  
 RT: 19.622 min Scan# 2746  
 Delta R.T. -0.003 min  
 Lab File: BG051334.D  
 Acq: 3 Dec 2021 18:03



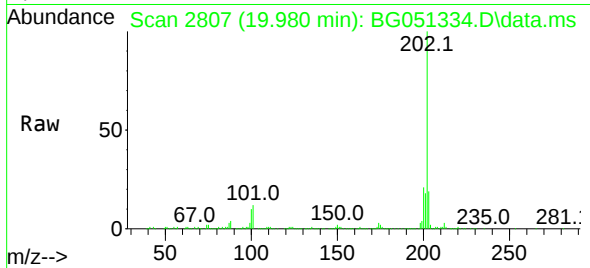
Tgt Ion:202 Resp: 299778  
 Ion Ratio Lower Upper  
 202 100  
 101 9.5 9.3 13.9  
 100 7.7 7.0 10.6





#82  
Pyrene  
Concen: 20.900 ng/ul  
RT: 19.980 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

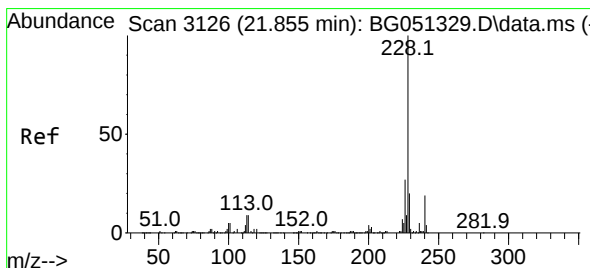
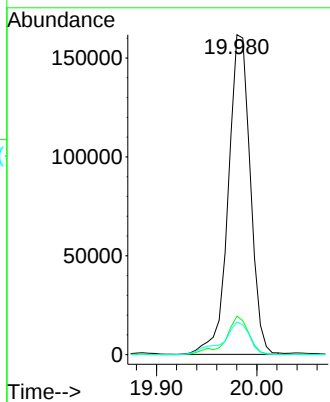
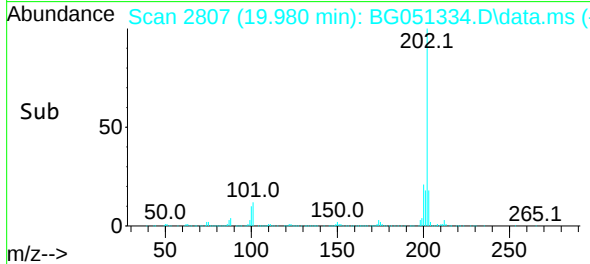
Instrument :  
BNA\_G  
ClientSampleId :  
ESQM8



Tgt Ion:202 Resp: 24663  
Ion Ratio Lower Upper  
202 100  
101 12.1 10.7 16.1  
100 10.2 9.0 13.6

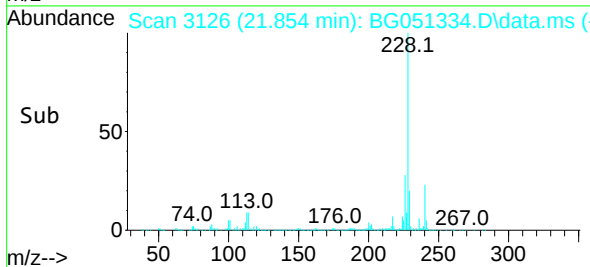
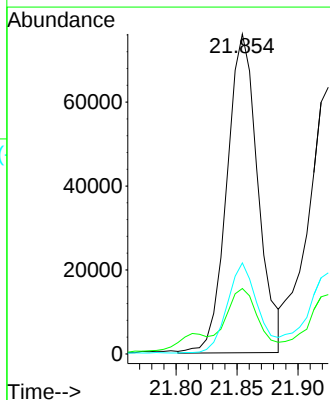
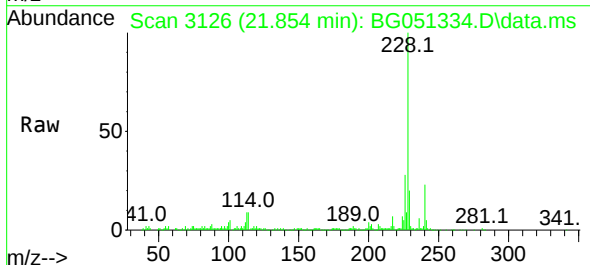
Manual Integrations  
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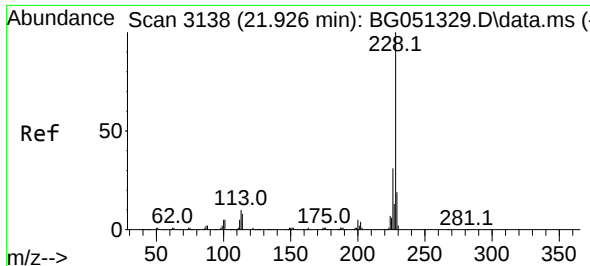
Reviewed By :Jagrut Upadhyay 12/06/2021  
Supervised By :mohammad ahmed 12/07/2021



#85  
Benzo(a)anthracene  
Concen: 12.290 ng/ul  
RT: 21.854 min Scan# 3126  
Delta R.T. -0.009 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

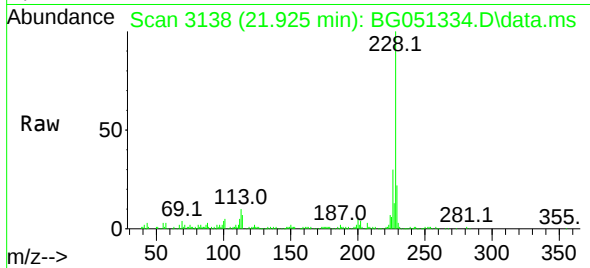
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Ion Ratio Lower Upper  
228 100  
229 20.4 15.7 23.5  
226 28.5 22.3 33.5





#87  
Chrysene  
Concen: 11.192 ng/ul  
RT: 21.925 min Scan# 3138  
Delta R.T. -0.009 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

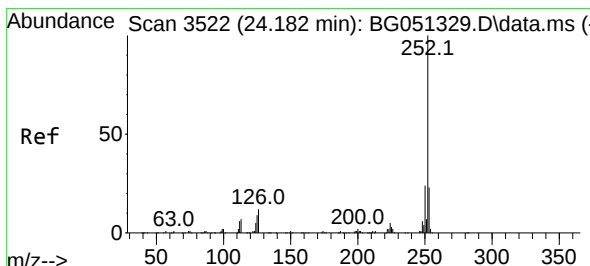
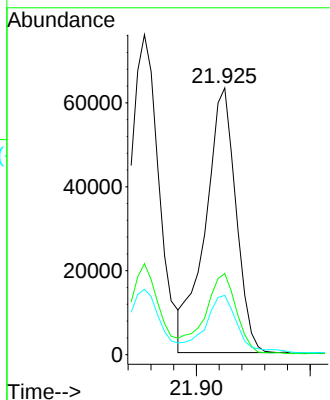
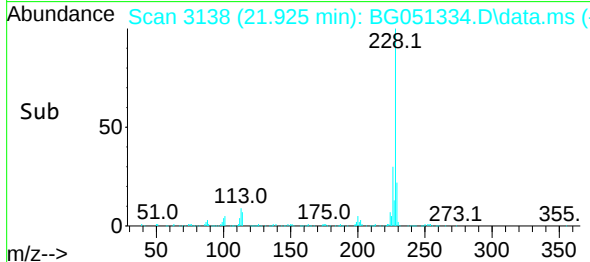
Instrument :  
BNA\_G  
ClientSampleId :  
ESQM8



Tgt Ion:228 Resp: 118375  
Ion Ratio Lower Upper  
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226 30.4 24.8 37.2  
229 22.3 15.8 23.6

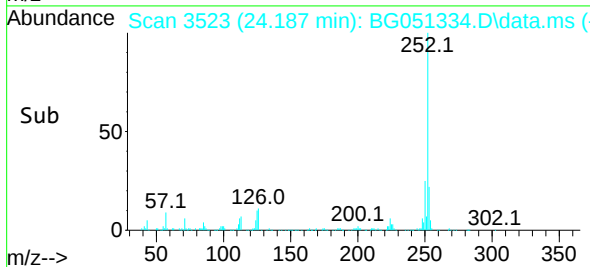
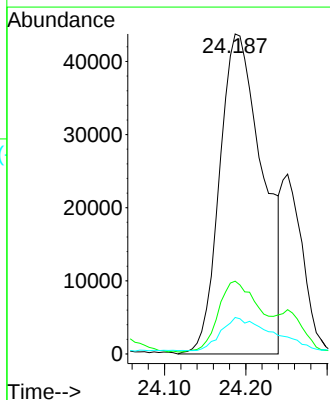
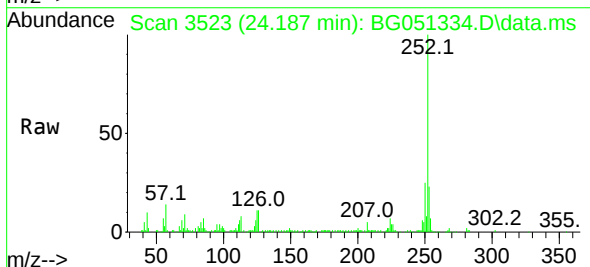
Manual Integrations  
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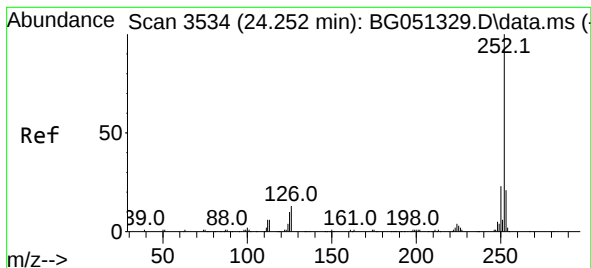
Reviewed By :Jagrut Upadhyay 12/06/2021  
Supervised By :mohammad ahmed 12/07/2021



#90  
Benzo(b)fluoranthene  
Concen: 14.698 ng/ul  
RT: 24.187 min Scan# 3523  
Delta R.T. -0.003 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

Tgt Ion:252 Resp: 160875  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.8 26.6  
125 11.4 8.5 12.7





#91

Benzo(k)fluoranthene

Concen: 4.296 ng/ul m

RT: 24.252 min Scan# 3

Delta R.T. -0.009 min

Lab File: BG051334.D

Acq: 3 Dec 2021 18:03

Instrument :

BNA\_G

ClientSampleId :

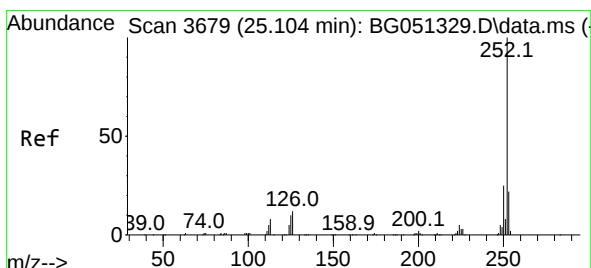
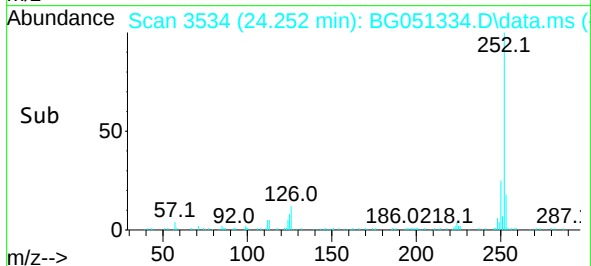
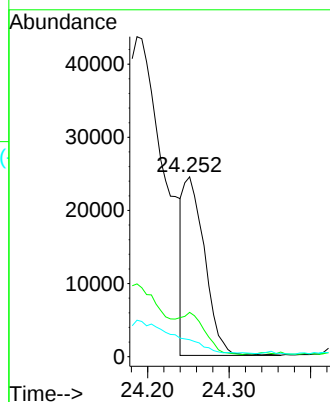
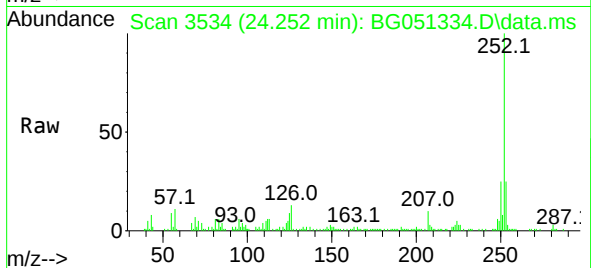
ESQM8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 44124 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.6  | 17.3  | 25.9  |
| 125       | 9.4   | 7.8   | 11.6  |

Manual Integrations

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#93

Benzo(a)pyrene

Concen: 10.627 ng/ul

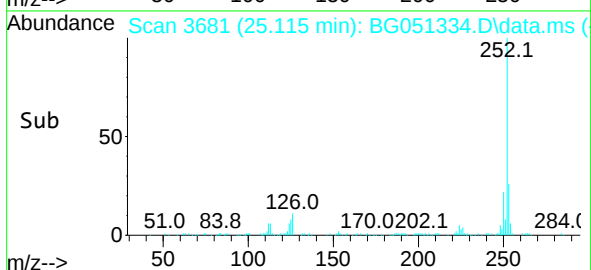
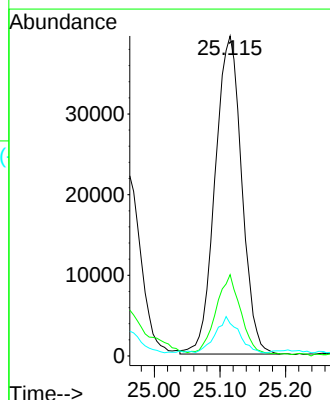
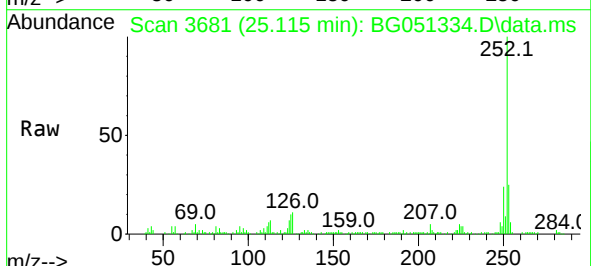
RT: 25.115 min Scan# 3681

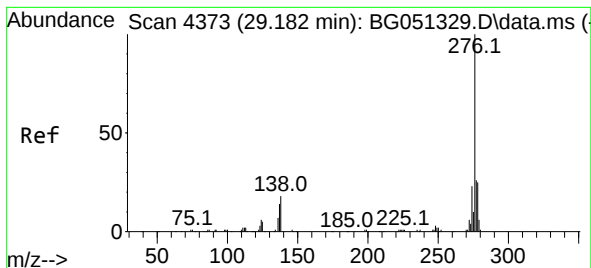
Delta R.T. -0.009 min

Lab File: BG051334.D

Acq: 3 Dec 2021 18:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 110967 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.4  | 17.4  | 26.2   |
| 125       | 10.1  | 9.1   | 13.7   |





#94

Indeno(1,2,3-cd)pyrene

Concen: 6.213 ng/ul

RT: 29.175 min Scan# 4372

Delta R.T. -0.015 min

Lab File: BG051334.D

Acq: 3 Dec 2021 18:03

Instrument :

BNA\_G

ClientSampleId :

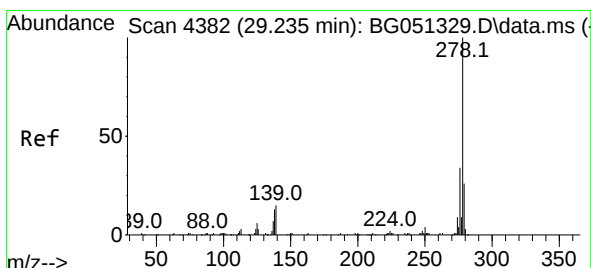
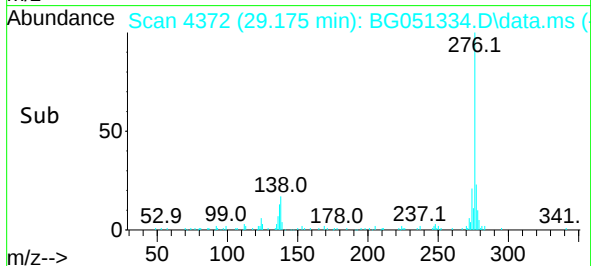
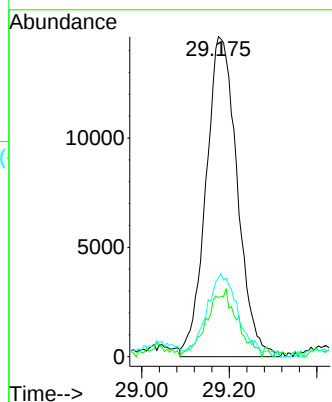
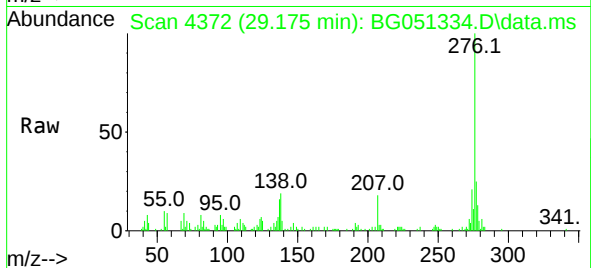
ESQM8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 72590 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.6  | 15.5  | 23.3  |
| 277       | 24.6  | 20.5  | 30.7  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/06/2021  
Supervised By :mohammad ahmed 12/07/2021



#95

Dibenzo(a,h)anthracene

Concen: 2.078 ng/ul m

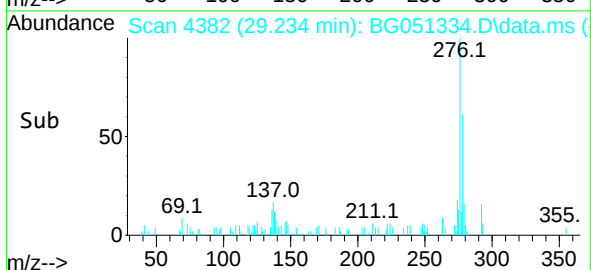
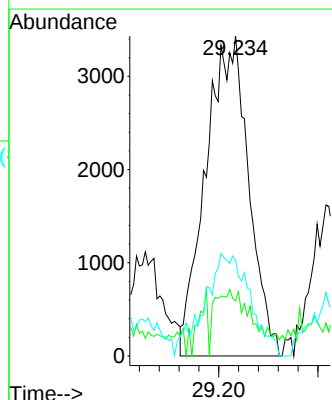
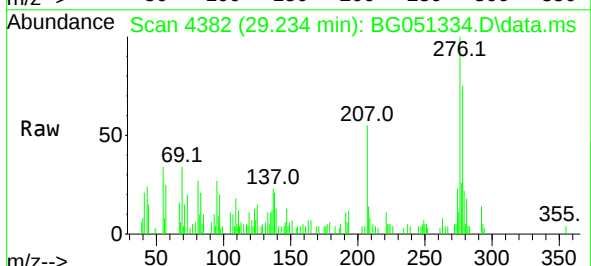
RT: 29.234 min Scan# 4382

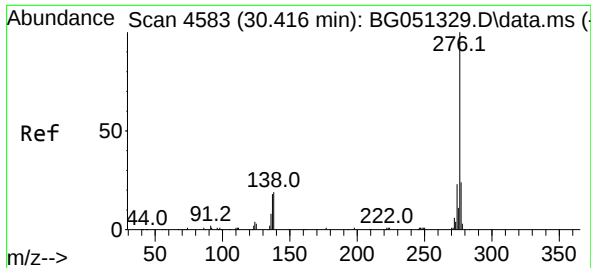
Delta R.T. -0.009 min

Lab File: BG051334.D

Acq: 3 Dec 2021 18:03

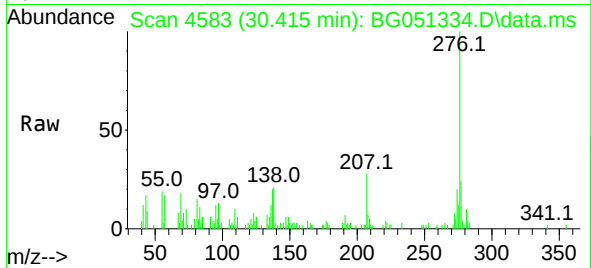
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 20605 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.2  | 12.2  | 18.4  |
| 279       | 29.9  | 19.5  | 29.3  |





#96  
Benzo(g,h,i)perylene  
Concen: 4.391 ng/ul  
RT: 30.415 min Scan# 4  
Delta R.T. 0.003 min  
Lab File: BG051334.D  
Acq: 3 Dec 2021 18:03

Instrument :  
BNA\_G  
ClientSampleId :  
ESQM8



Tgt Ion:276 Resp: 43160  
Ion Ratio Lower Upper  
276 100  
138 21.3 16.6 24.8  
277 24.0 17.6 26.4

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/06/2021  
Supervised By :mohammad ahmed 12/07/2021

