

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG011824\  
 Data File : BG060360.D  
 Acq On : 18 Jan 2024 20:13  
 Operator : MA/JU  
 Sample : P1169-07  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-C-COMP

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 01/23/2024  
 Supervised By :mohammad ahmed 01/24/2024

Quant Time: Jan 19 00:25:44 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG010824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 09 04:07:12 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.925  | 152  | 273394   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.734 | 136  | 1087123  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.564 | 164  | 763513   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.314 | 188  | 1792384  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.580 | 240  | 1569740  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.747 | 264  | 1796884  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.504  | 112  | 1235299  | 74.318 | ng    | 0.00     |
| 7) Phenol-d6                | 7.091  | 99   | 2111220  | 85.776 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.088  | 82   | 1411703  | 61.318 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.057 | 330  | 1044620  | 92.992 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.190 | 172  | 3344679  | 60.905 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.935 | 244  | 4545801  | 67.636 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 38) 1-Methylnaphthalene     | 12.608 | 142  | 126850   | 2.989  | ng    | 96       |
| 52) Acenaphthene            | 14.629 | 154  | 218634   | 5.164  | ng    | 98       |
| 55) Dibenzofuran            | 14.964 | 168  | 152508   | 2.158  | ng    | 97       |
| 58) Fluorene                | 15.616 | 166  | 302475   | 5.168  | ng    | 95       |
| 71) Phenanthrene            | 17.355 | 178  | 4083816  | 47.138 | ng    | 98       |
| 72) Anthracene              | 17.443 | 178  | 1000754  | 11.570 | ng    | 94       |
| 73) Carbazole               | 17.714 | 167  | 350885   | 4.303  | ng    | 98       |
| 75) Fluoranthene            | 19.371 | 202  | 4777644  | 45.913 | ng    | 95       |
| 78) Pyrene                  | 19.735 | 202  | 4657763  | 46.465 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.562 | 228  | 2651351  | 27.283 | ng    | 95       |
| 83) Chrysene                | 21.627 | 228  | 2460736  | 25.746 | ng    | 94       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.354 | 276  | 1123344  | 8.991  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 23.742 | 252  | 2720110  | 25.625 | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 23.801 | 252  | 1150788m | 10.986 | ng    |          |
| 90) Benzo(a)pyrene          | 24.594 | 252  | 2201227  | 22.955 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 28.395 | 278  | 237121   | 2.324  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 29.482 | 276  | 1064482m | 10.179 | ng    |          |
| -----                       |        |      |          |        |       |          |

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

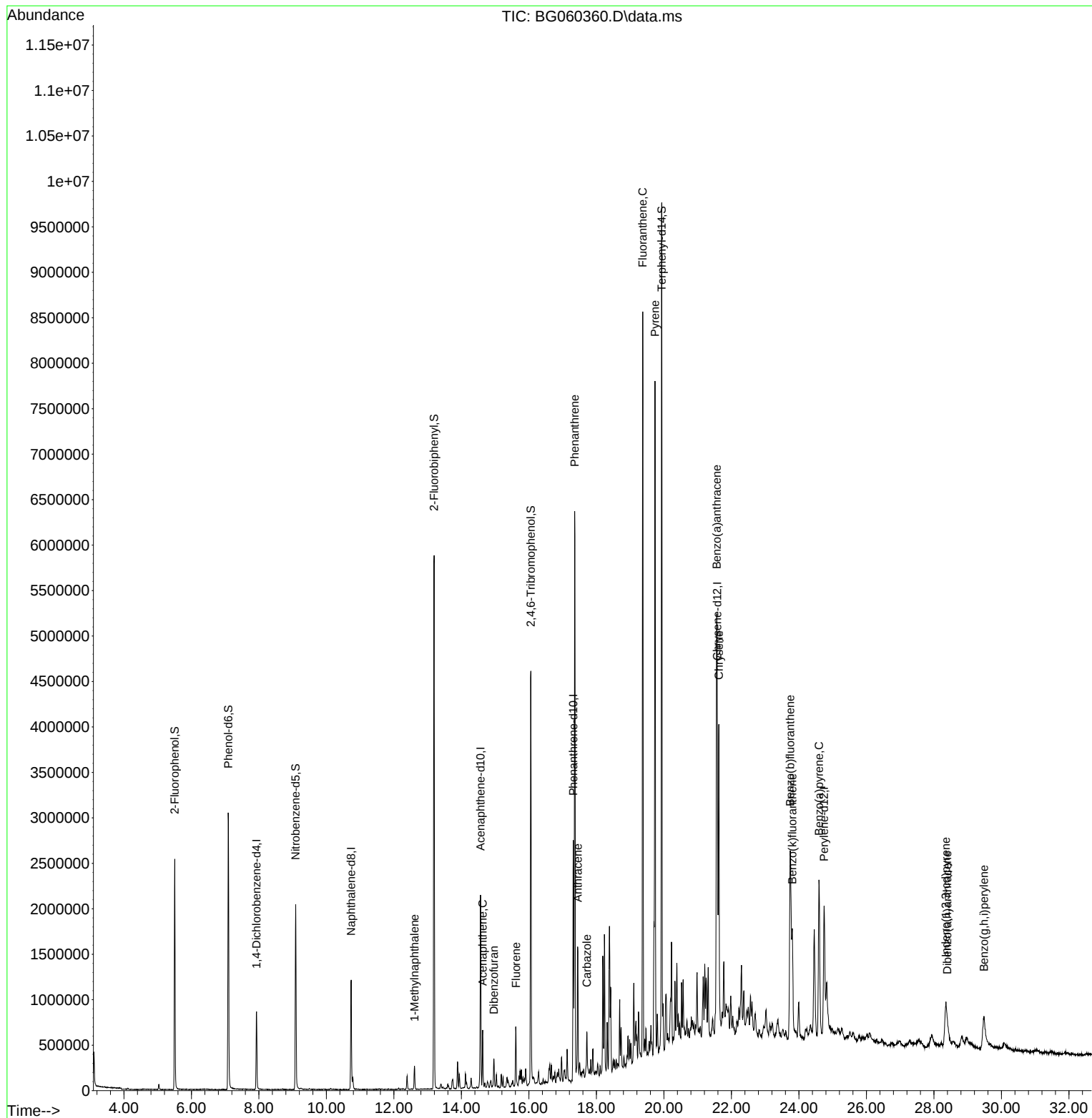
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG011824\  
Data File : BG060360.D  
Acq On : 18 Jan 2024 20:13  
Operator : MA/JU  
Sample : P1169-07  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

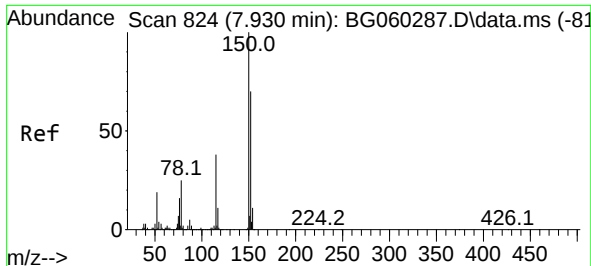
Instrument :  
BNA\_G  
ClientSampleId :  
WC-C-COMP

Quant Time: Jan 19 00:25:44 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG010824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 09 04:07:12 2024  
Response via : Initial Calibration

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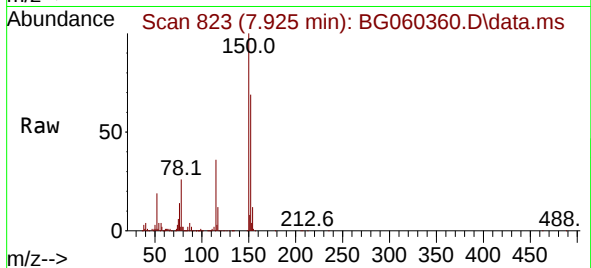
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.925 min Scan# 81  
Delta R.T. -0.005 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

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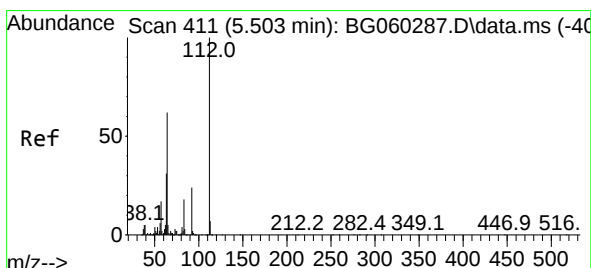
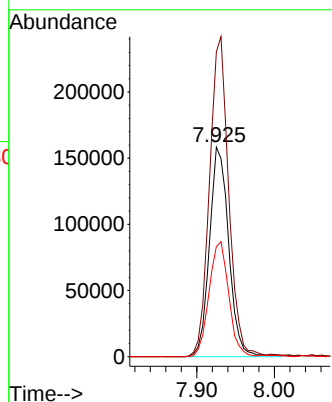
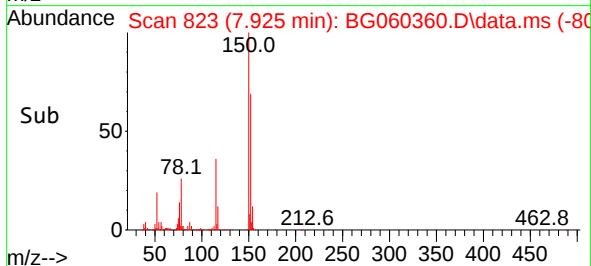


Tgt Ion:152 Resp: 273394  
Ion Ratio Lower Upper  
152 100  
150 145.4 114.5 171.7  
115 52.5 43.0 64.6

Manual Integrations

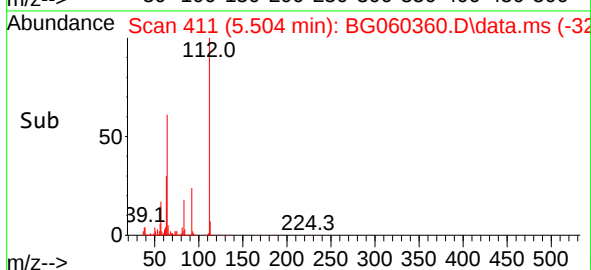
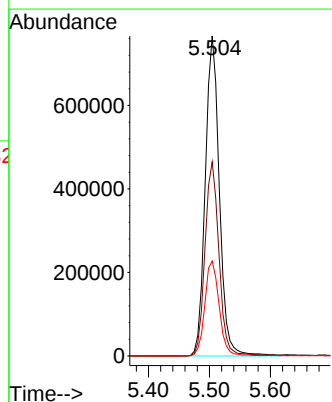
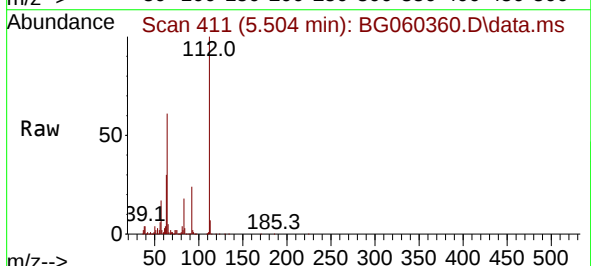
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Supervised By :mohammad ahmed 01/24/2024



#5  
2-Fluorophenol  
Concen: 74.318 ng  
RT: 5.504 min Scan# 411  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:112 Resp: 1235299  
Ion Ratio Lower Upper  
112 100  
64 60.7 49.8 74.6  
63 29.7 24.4 36.6





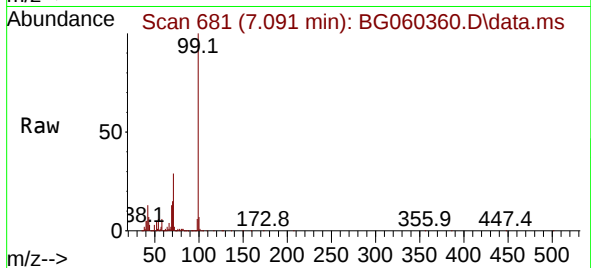
#7  
Phenol-d6  
Concen: 85.776 ng  
RT: 7.091 min Scan# 681  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

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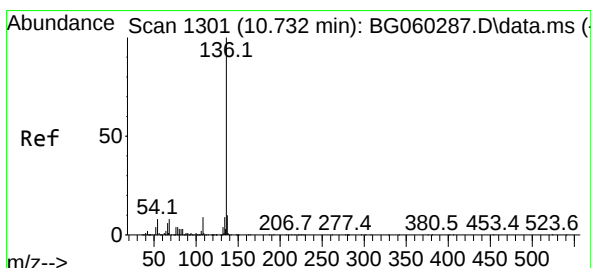
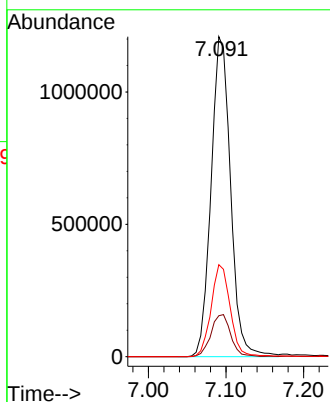
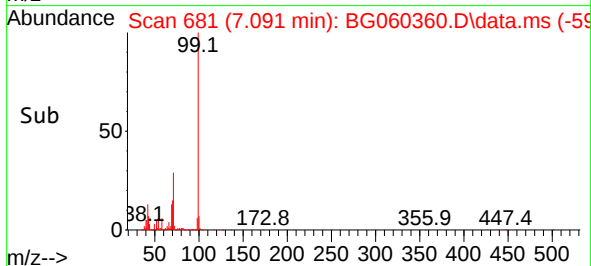


Tgt Ion: 99 Resp: 2111220  
Ion Ratio Lower Upper  
99 100  
42 12.8 10.9 16.3  
71 28.8 21.5 32.3

Manual Integrations

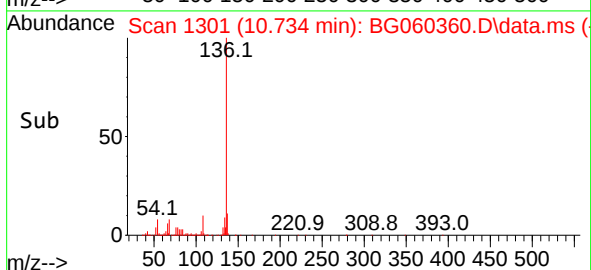
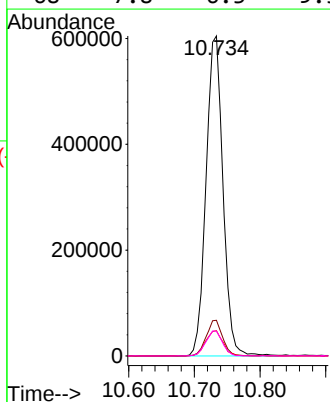
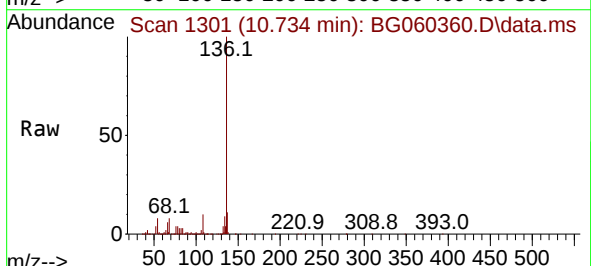
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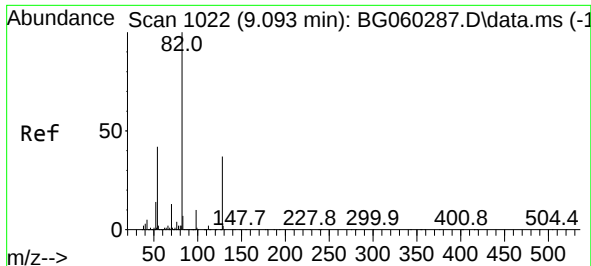
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.734 min Scan# 1301  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:136 Resp: 1087123  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.2 12.4  
54 7.9 6.2 9.2  
68 7.8 6.3 9.5





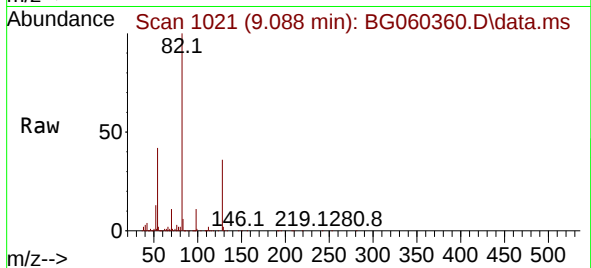
#23  
Nitrobenzene-d5  
Concen: 61.318 ng  
RT: 9.088 min Scan# 1022  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

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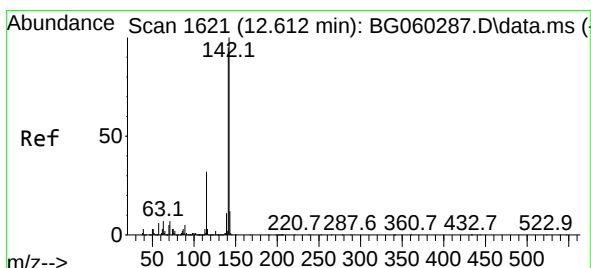
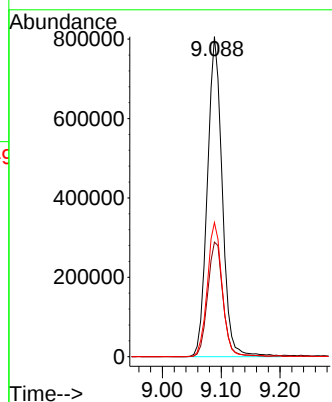
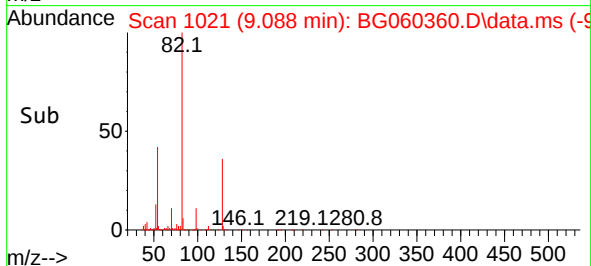


Tgt Ion: 82 Resp: 141170  
Ion Ratio Lower Upper  
82 100  
128 35.8 29.6 44.4  
54 41.9 33.6 50.4

Manual Integrations

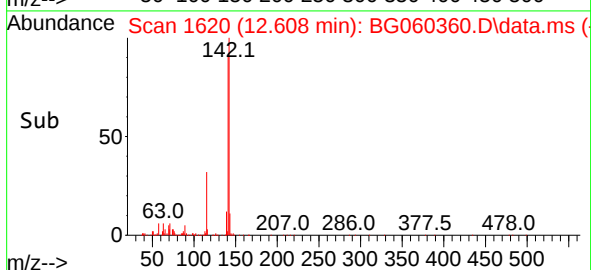
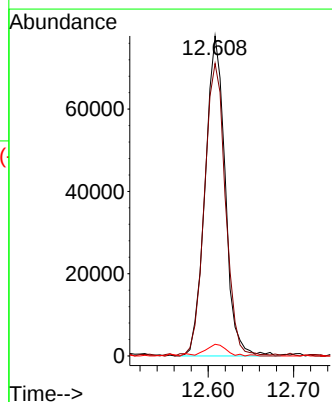
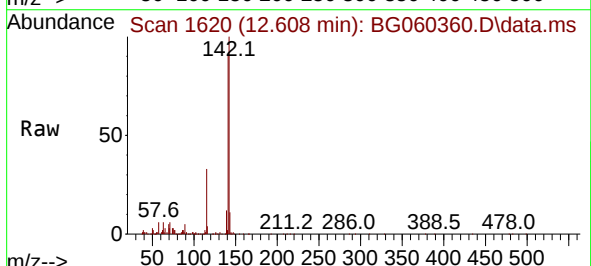
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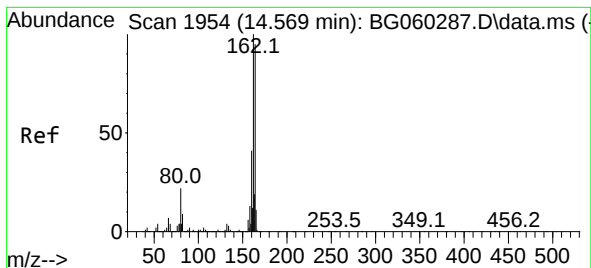
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#38  
1-Methylnaphthalene  
Concen: 2.989 ng  
RT: 12.608 min Scan# 1620  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:142 Resp: 126850  
Ion Ratio Lower Upper  
142 100  
141 91.4 76.2 114.2  
116 3.6 2.6 3.8





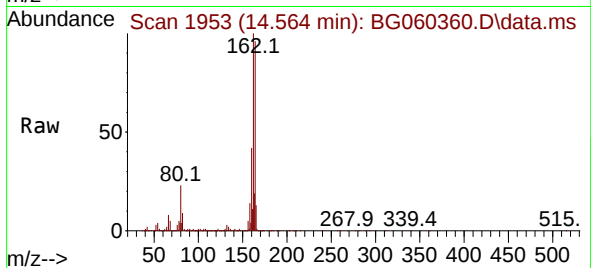
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.564 min Scan# 1954  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

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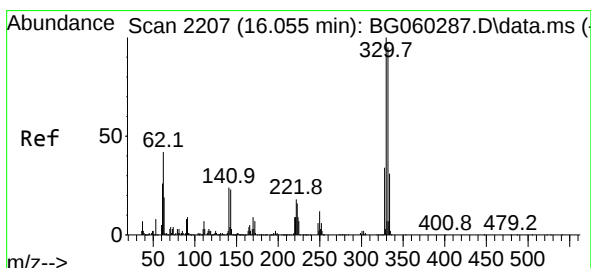
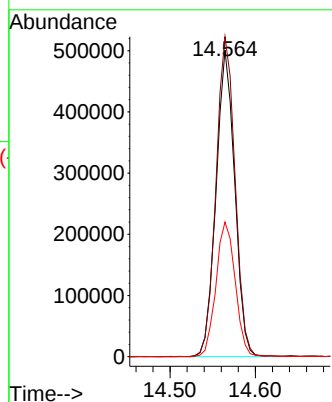
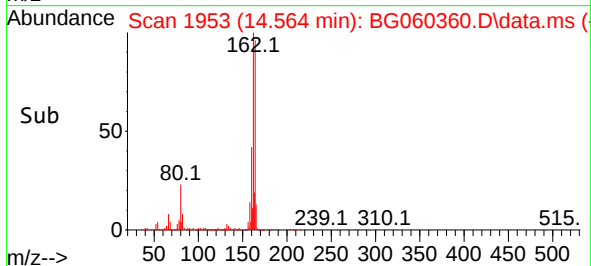


Tgt Ion:164 Resp: 763511  
Ion Ratio Lower Upper  
164 100  
162 104.4 84.4 126.6  
160 43.9 34.6 52.0

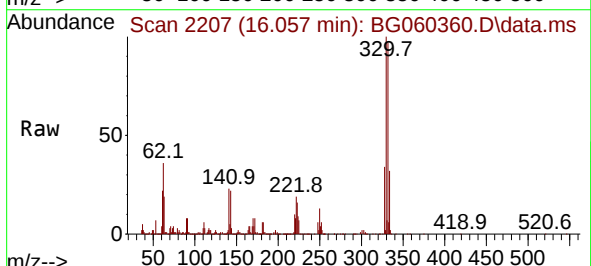
Manual Integrations

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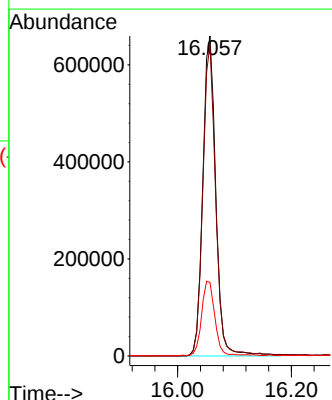
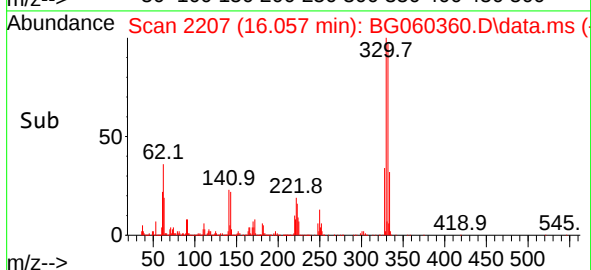
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024

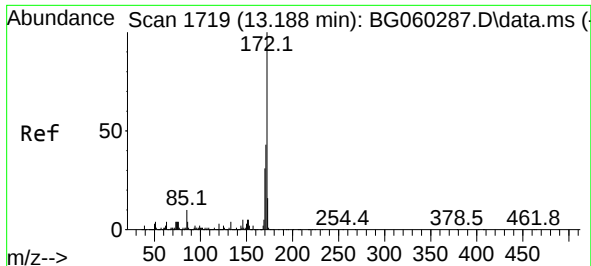


#42  
2,4,6-Tribromophenol  
Concen: 92.992 ng  
RT: 16.057 min Scan# 2207  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13



Tgt Ion:330 Resp: 1044620  
Ion Ratio Lower Upper  
330 100  
332 96.7 76.7 115.1  
141 23.7 18.6 28.0





#45  
2-Fluorobiphenyl  
Concen: 60.905 ng  
RT: 13.190 min Scan# 1719  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

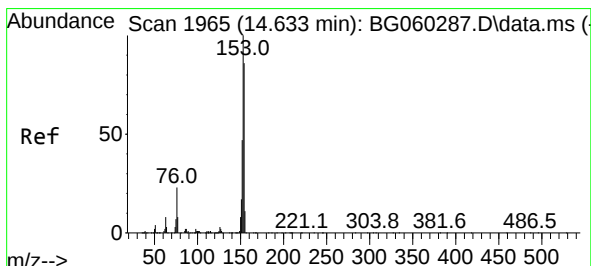
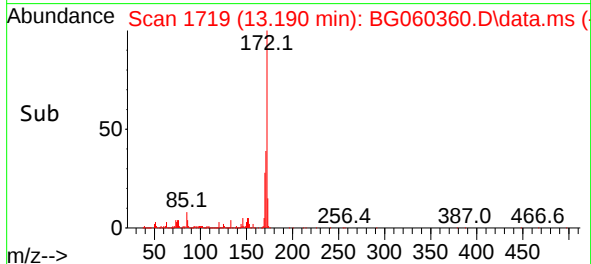
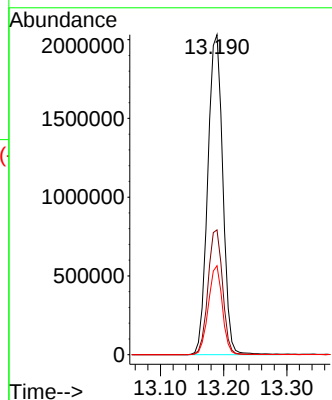
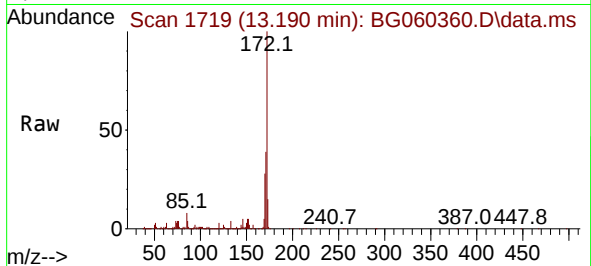
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Tgt Ion:172 Resp: 3344679  
Ion Ratio Lower Upper  
172 100  
171 39.0 34.6 51.8  
170 27.8 24.4 36.6

Manual Integrations

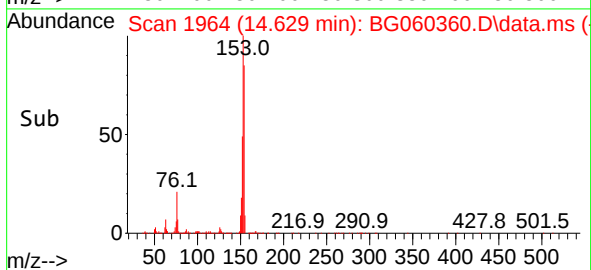
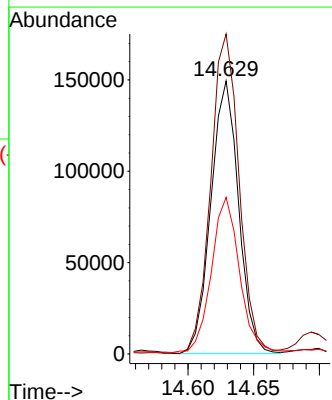
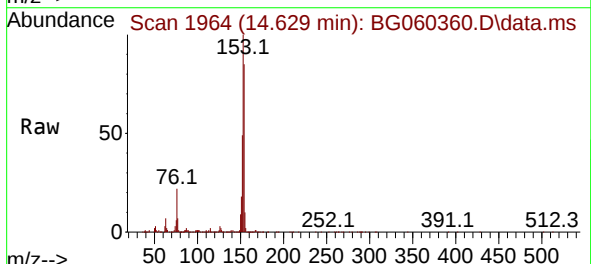
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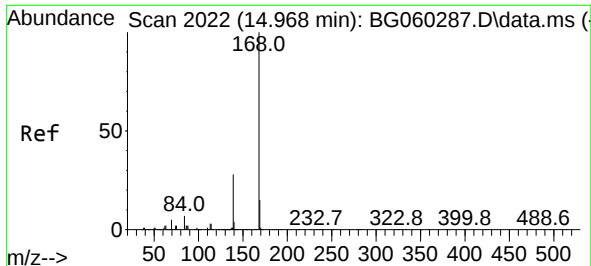
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#52  
Acenaphthene  
Concen: 5.164 ng  
RT: 14.629 min Scan# 1964  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:154 Resp: 218634  
Ion Ratio Lower Upper  
154 100  
153 117.2 92.6 138.8  
152 57.4 43.8 65.8





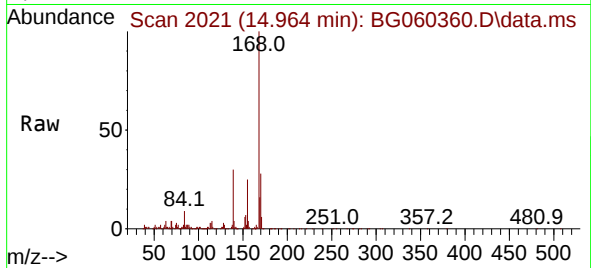
#55  
Dibenzenofuran  
Concen: 2.158 ng  
RT: 14.964 min Scan# 2022  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

WC-C-COMP

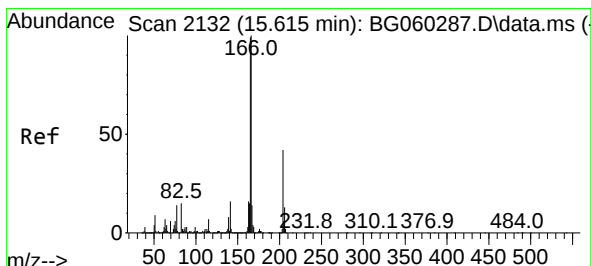
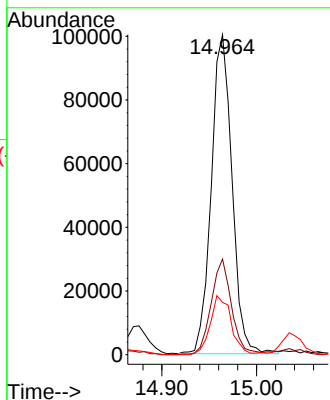
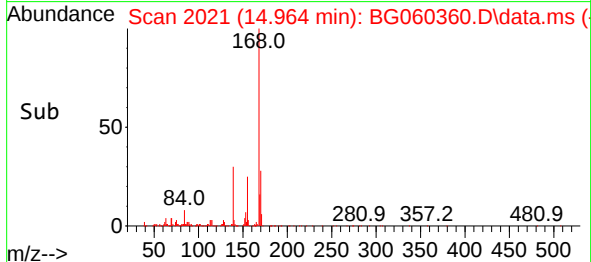


Tgt Ion:168 Resp: 152508  
Ion Ratio Lower Upper  
168 100  
139 29.9 22.6 34.0  
169 16.4 12.1 18.1

Manual Integrations

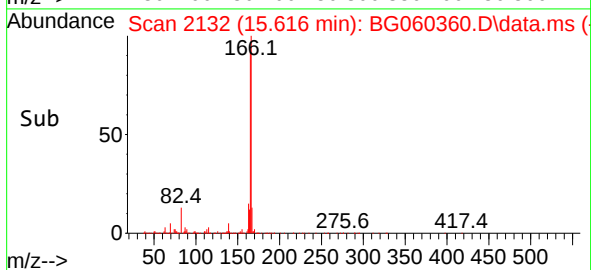
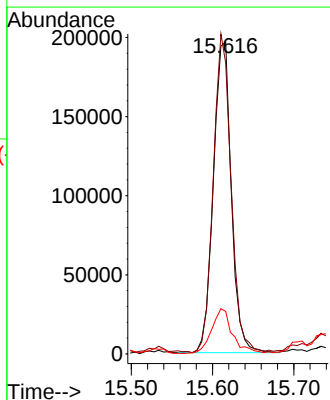
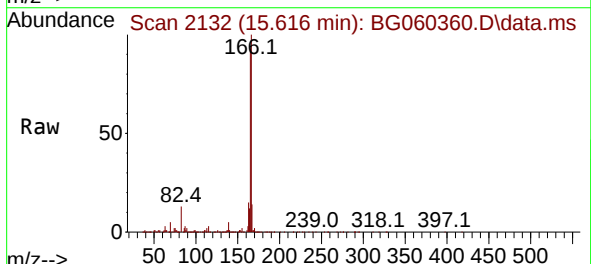
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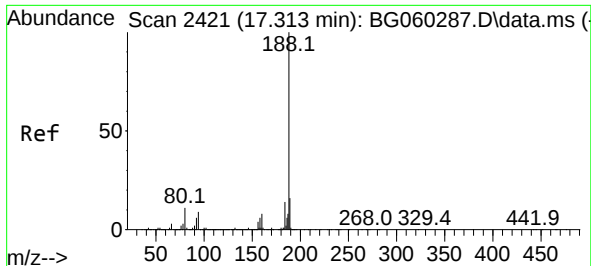
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#58  
Fluorene  
Concen: 5.168 ng  
RT: 15.616 min Scan# 2132  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:166 Resp: 302475  
Ion Ratio Lower Upper  
166 100  
165 93.3 79.0 118.6  
167 13.7 11.4 17.0





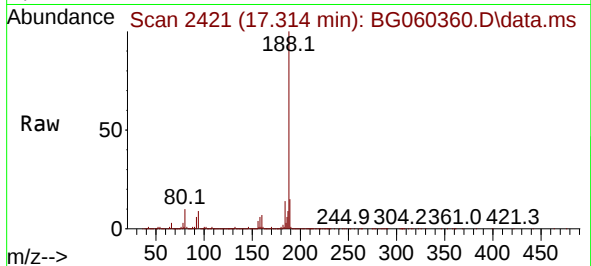
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.314 min Scan# 2421  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

WC-C-COMP

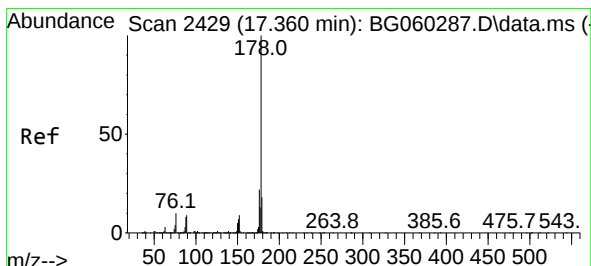
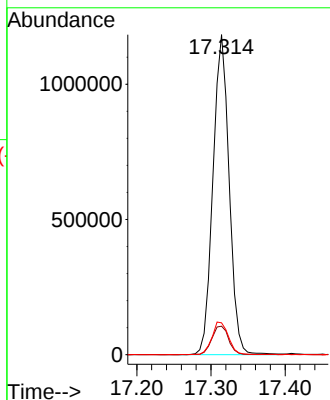
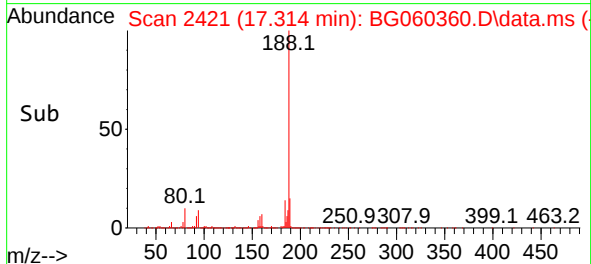


Tgt Ion:188 Resp: 1792384  
Ion Ratio Lower Upper  
188 100  
94 8.9 7.1 10.7  
80 10.0 8.5 12.7

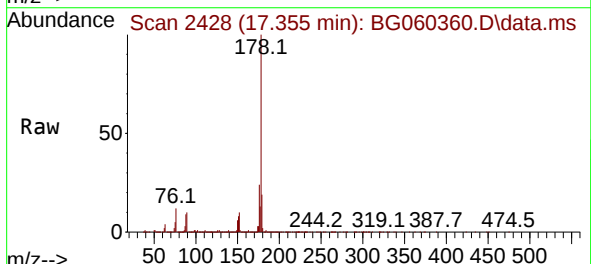
Manual Integrations

APPROVED

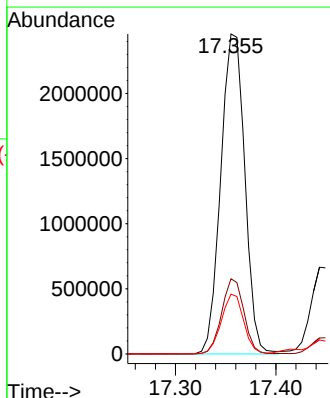
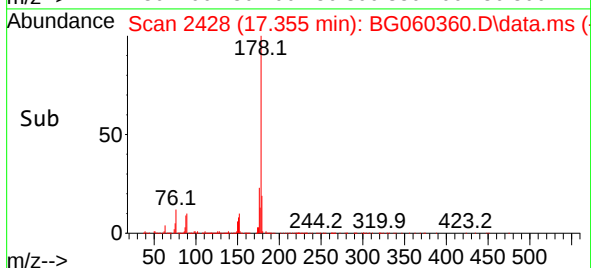
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024

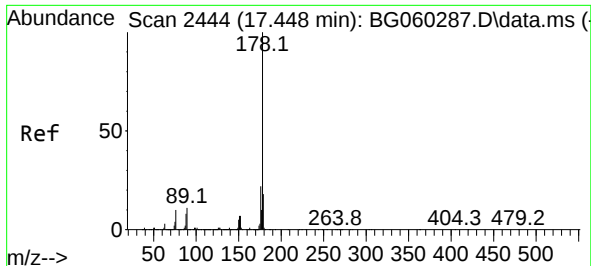


#71  
Phenanthrene  
Concen: 47.138 ng  
RT: 17.355 min Scan# 2428  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13



Tgt Ion:178 Resp: 4083816  
Ion Ratio Lower Upper  
178 100  
176 23.5 17.4 26.2  
179 18.7 14.7 22.1





#72  
 Anthracene  
 Concen: 11.570 ng  
 RT: 17.443 min Scan# 2444  
 Delta R.T. -0.004 min  
 Lab File: BG060360.D  
 Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

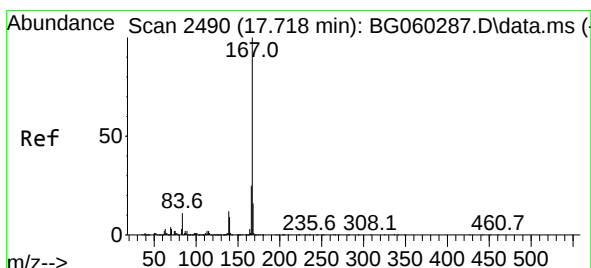
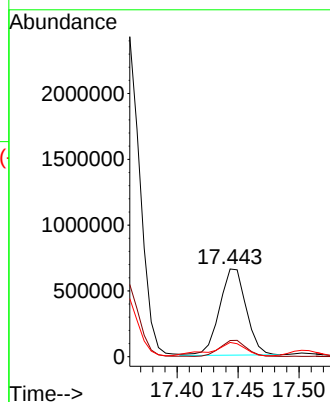
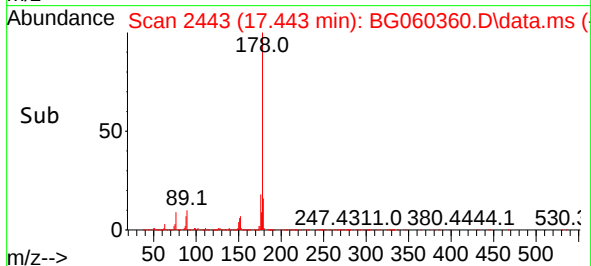
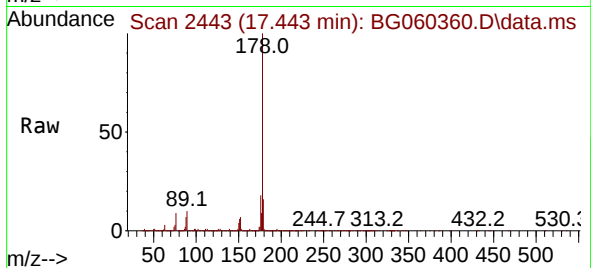
WC-C-COMP

Tgt Ion:178 Resp: 1000754  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 17.8 26.6  
 179 16.3 14.1 21.1

Manual Integrations

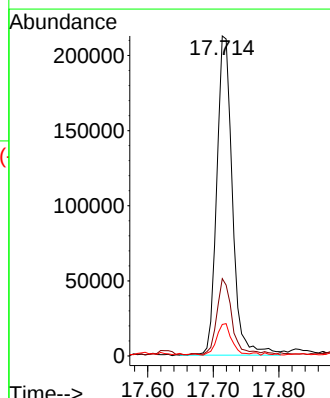
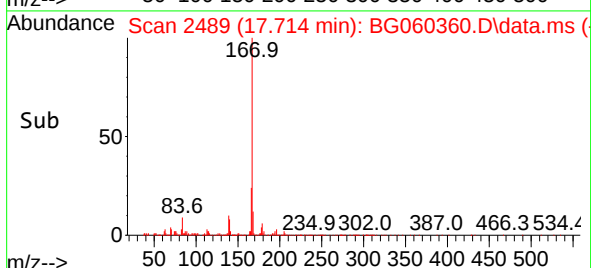
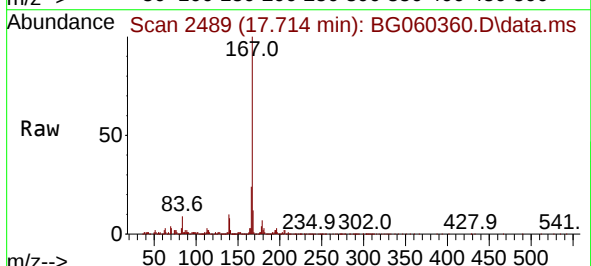
APPROVED

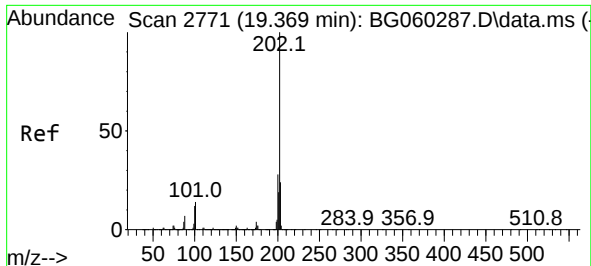
Reviewed By :Jagrut Upadhyay 01/23/2024  
 Supervised By :mohammad ahmed 01/24/2024



#73  
 Carbazole  
 Concen: 4.303 ng  
 RT: 17.714 min Scan# 2489  
 Delta R.T. -0.004 min  
 Lab File: BG060360.D  
 Acq: 18 Jan 2024 20:13

Tgt Ion:167 Resp: 350885  
 Ion Ratio Lower Upper  
 167 100  
 166 24.2 19.8 29.8  
 139 9.9 9.3 13.9





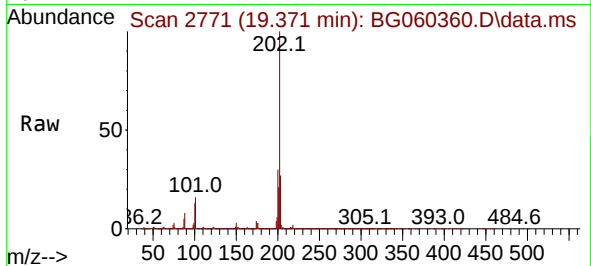
#75  
Fluoranthene  
Concen: 45.913 ng  
RT: 19.371 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

WC-C-COMP

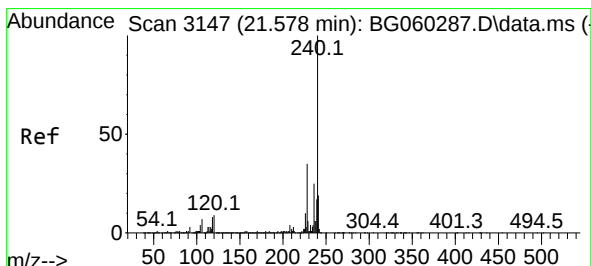
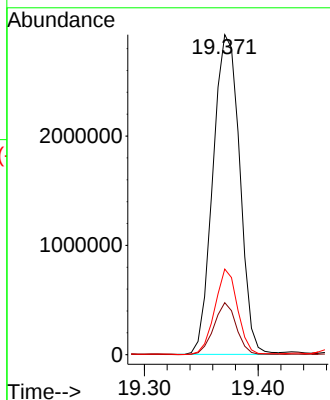
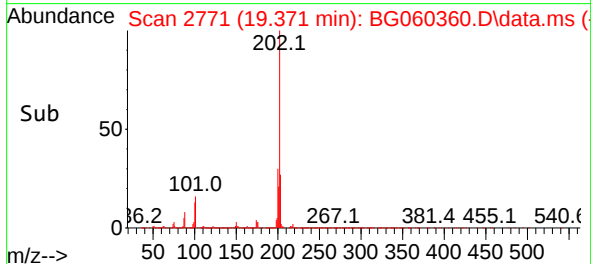


Tgt Ion:202 Resp: 4777644  
Ion Ratio Lower Upper  
202 100  
101 16.3 0.0 34.4  
203 26.7 4.0 44.0

Manual Integrations

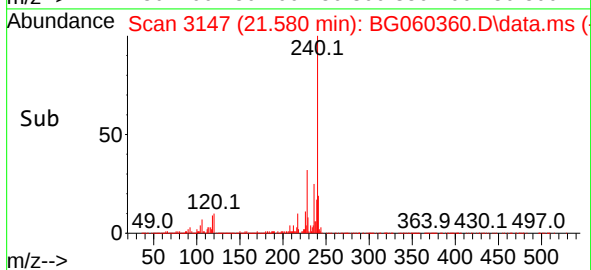
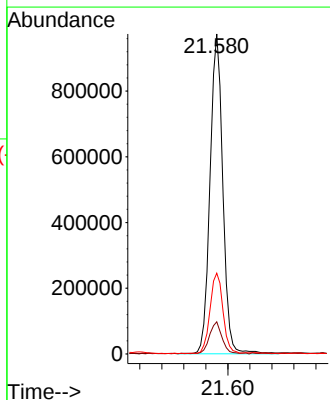
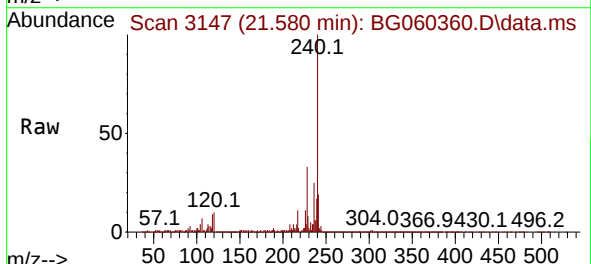
APPROVED

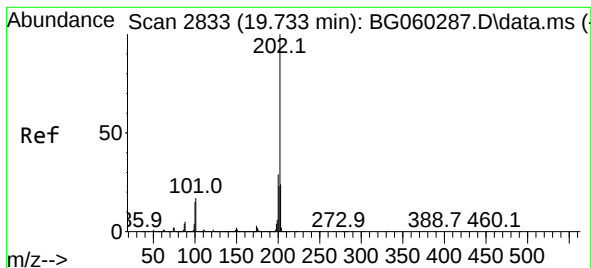
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.580 min Scan# 3147  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:240 Resp: 1569740  
Ion Ratio Lower Upper  
240 100  
120 10.1 7.3 10.9  
236 25.2 20.3 30.5





#78

Pyrene

Concen: 46.465 ng

RT: 19.735 min Scan# 2833

Delta R.T. 0.001 min

Lab File: BG060360.D

Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

WC-C-COMP

Tgt Ion:202 Resp: 465776

Ion Ratio Lower Upper

202 100

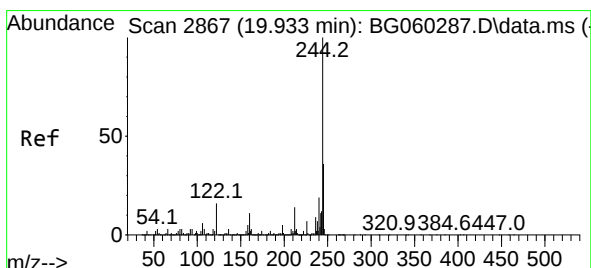
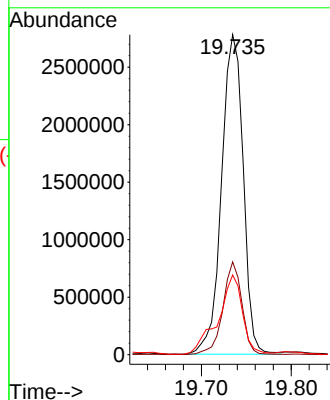
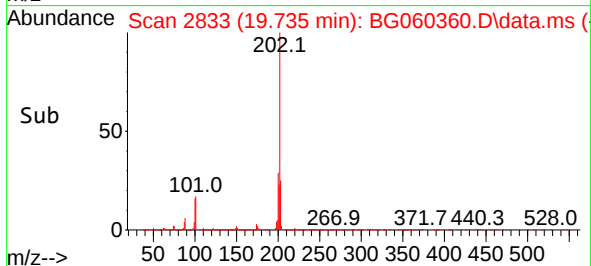
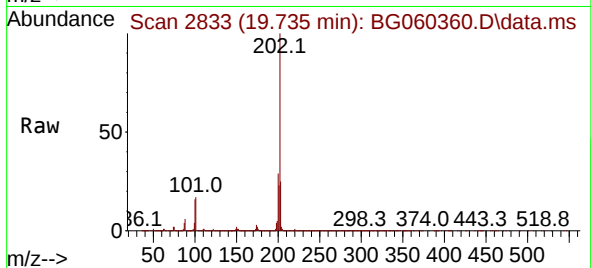
200 29.0 23.5 35.3

203 24.9 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#79

Terphenyl-d14

Concen: 67.636 ng

RT: 19.935 min Scan# 2867

Delta R.T. 0.002 min

Lab File: BG060360.D

Acq: 18 Jan 2024 20:13

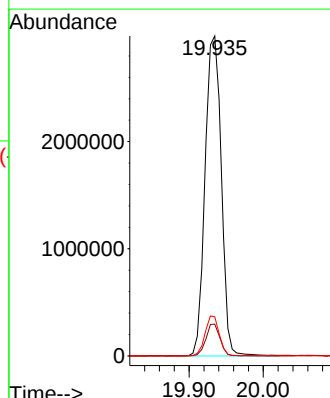
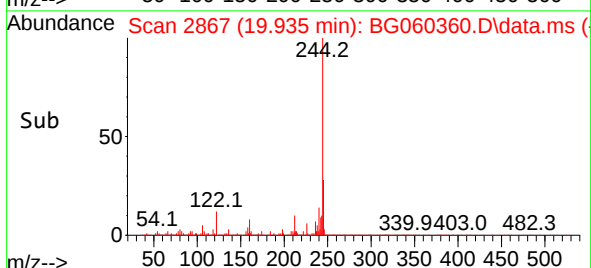
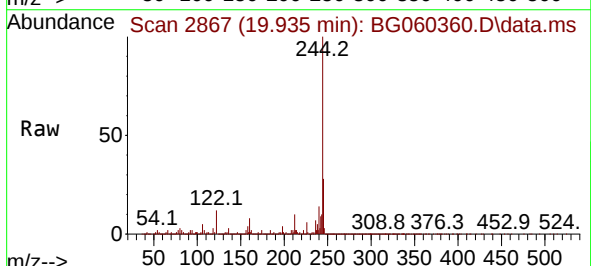
Tgt Ion:244 Resp: 4545801

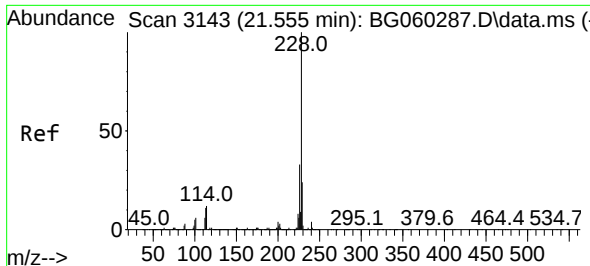
Ion Ratio Lower Upper

244 100

212 10.0 10.9 16.3#

122 12.3 12.6 18.8#





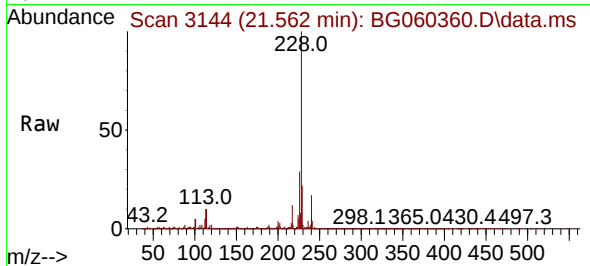
#81  
Benzo(a)anthracene  
Concen: 27.283 ng  
RT: 21.562 min Scan# 3144  
Delta R.T. 0.007 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

WC-C-COMP

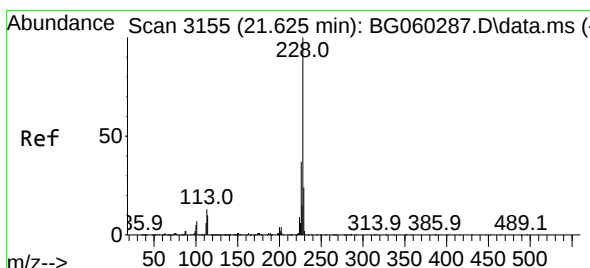
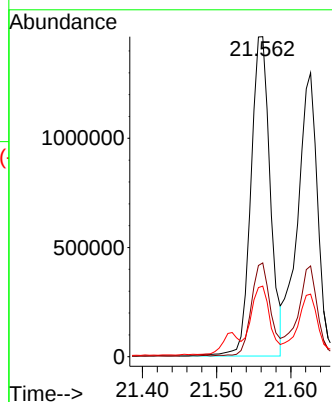
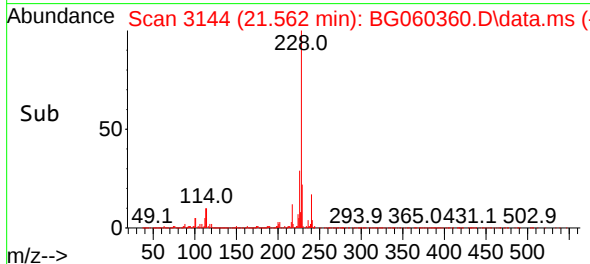


Tgt Ion:228 Resp: 265135  
Ion Ratio Lower Upper  
228 100  
226 29.3 26.2 39.2  
229 22.1 19.4 29.2

Manual Integrations

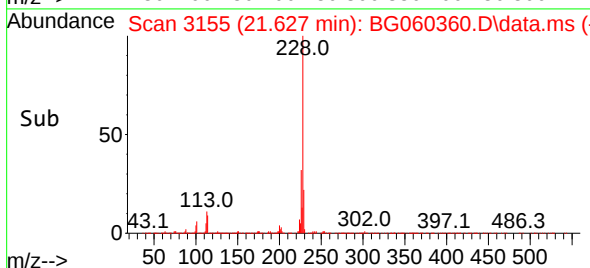
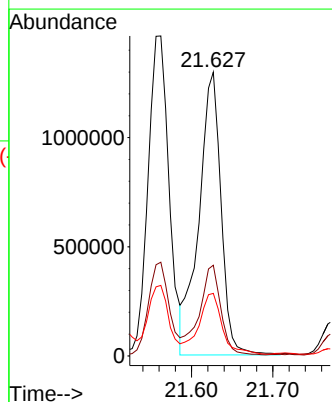
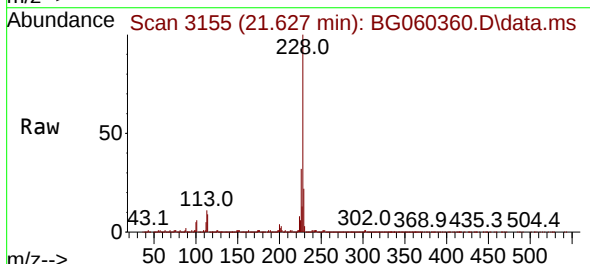
APPROVED

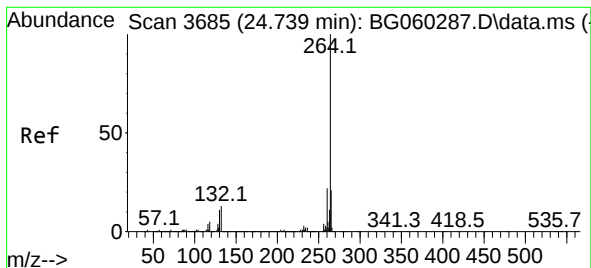
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#83  
Chrysene  
Concen: 25.746 ng  
RT: 21.627 min Scan# 3155  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:228 Resp: 2460736  
Ion Ratio Lower Upper  
228 100  
226 32.0 29.4 44.2  
229 22.0 19.2 28.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.747 min Scan# 3

Delta R.T. 0.007 min

Lab File: BG060360.D

Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

WC-C-COMP

Tgt Ion:264 Resp: 1796884

Ion Ratio Lower Upper

264 100

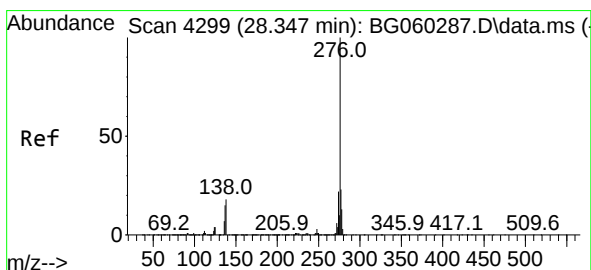
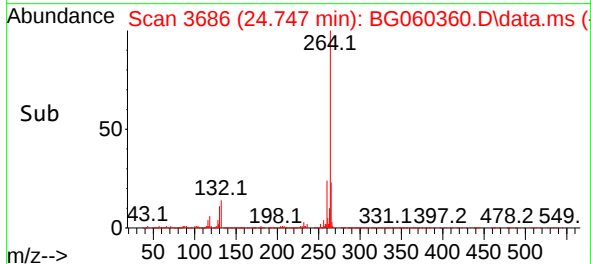
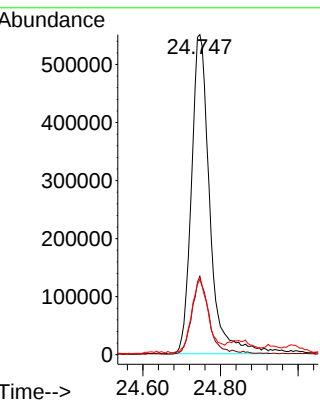
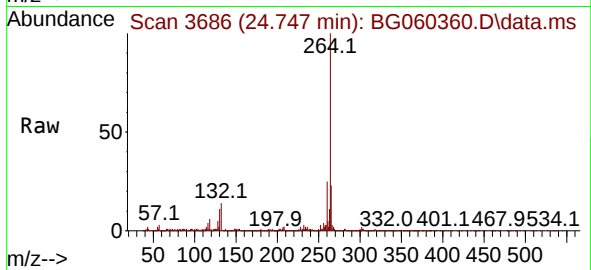
260 24.5 17.8 26.6

265 23.5 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.991 ng

RT: 28.354 min Scan# 4300

Delta R.T. 0.007 min

Lab File: BG060360.D

Acq: 18 Jan 2024 20:13

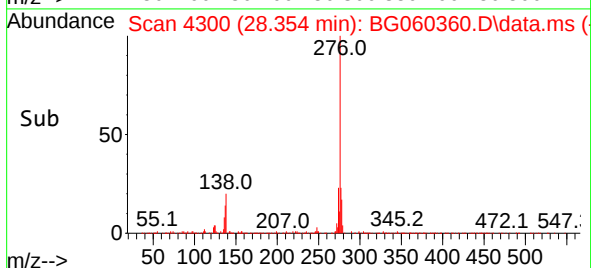
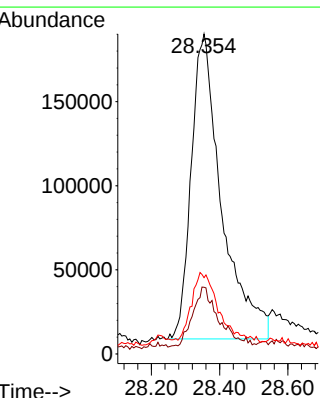
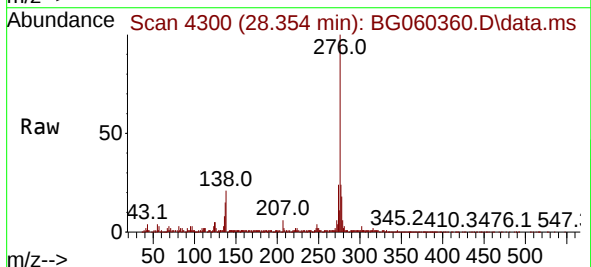
Tgt Ion:276 Resp: 1123344

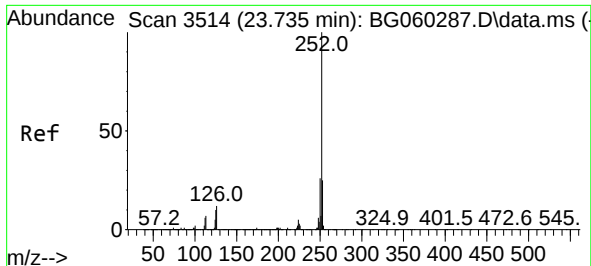
Ion Ratio Lower Upper

276 100

138 16.3 12.5 18.7

277 21.1 20.5 30.7





#88  
Benzo(b)fluoranthene  
Concen: 25.625 ng  
RT: 23.742 min Scan# 3515  
Delta R.T. 0.007 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :

BNA\_G

ClientSampleId :

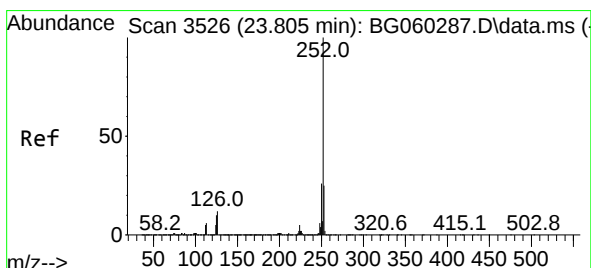
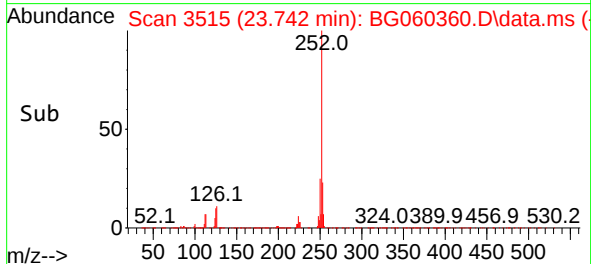
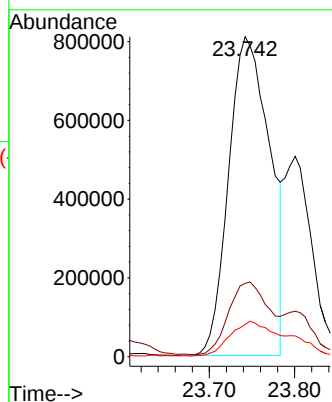
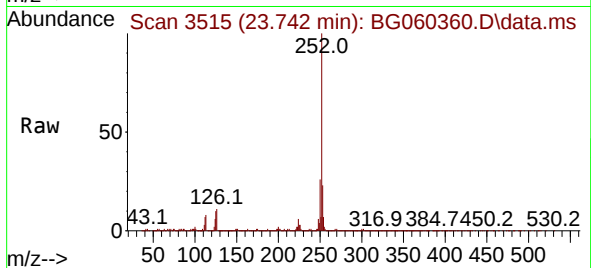
WC-C-COMP

Tgt Ion:252 Resp: 2720110  
Ion Ratio Lower Upper  
252 100  
253 22.9 20.0 30.0  
125 10.1 8.1 12.1

Manual Integrations

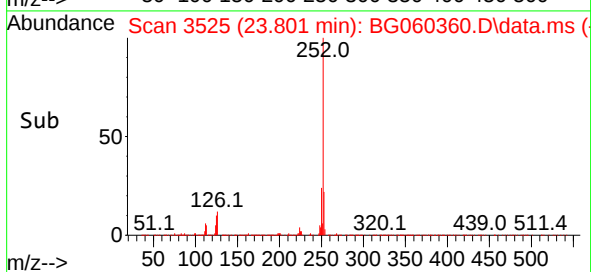
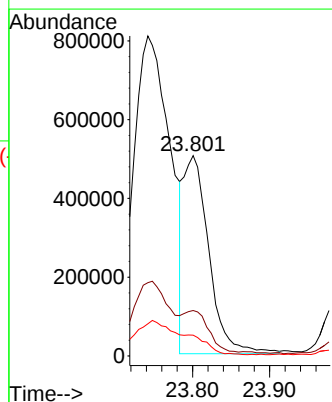
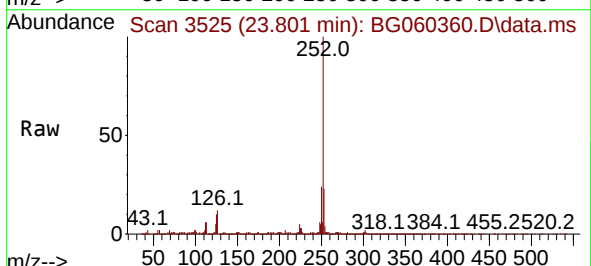
APPROVED

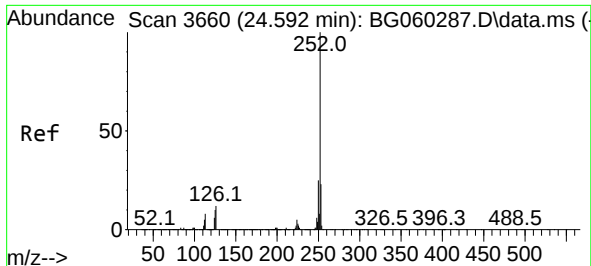
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#89  
Benzo(k)fluoranthene  
Concen: 10.986 ng m  
RT: 23.801 min Scan# 3525  
Delta R.T. -0.004 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Tgt Ion:252 Resp: 1150788  
Ion Ratio Lower Upper  
252 100  
253 22.7 19.6 29.4  
125 10.4 8.2 12.2





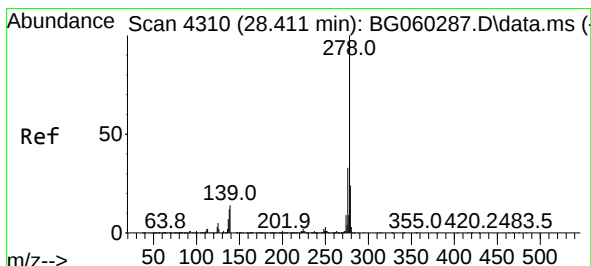
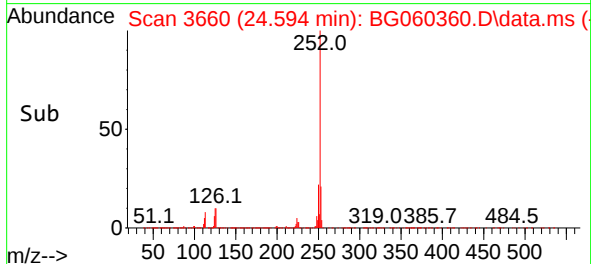
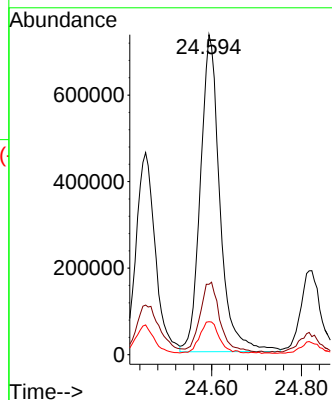
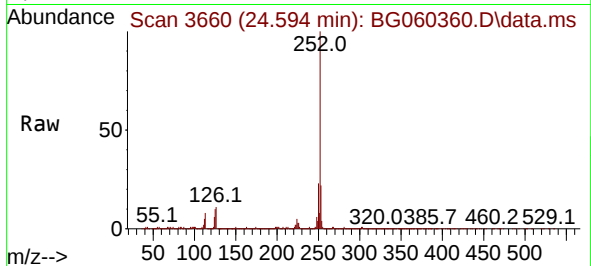
#90  
Benzo(a)pyrene  
Concen: 22.955 ng  
RT: 24.594 min Scan# 30  
Delta R.T. 0.001 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

Instrument :  
BNA\_G  
ClientSampleId :  
WC-C-COMP

Tgt Ion:252 Resp: 220122  
Ion Ratio Lower Upper  
252 100  
253 22.0 18.1 27.1  
125 10.3 8.1 12.1

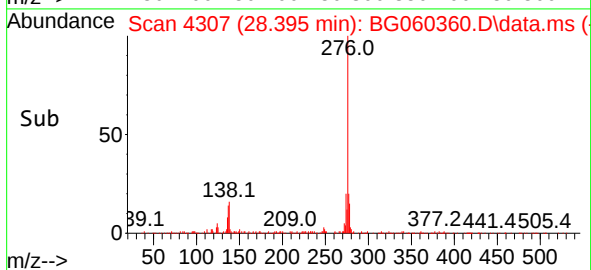
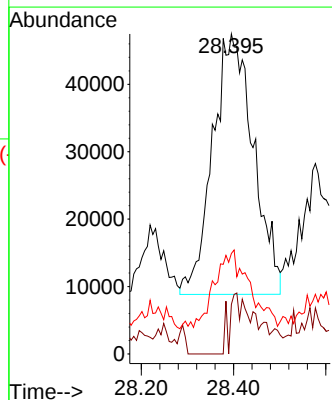
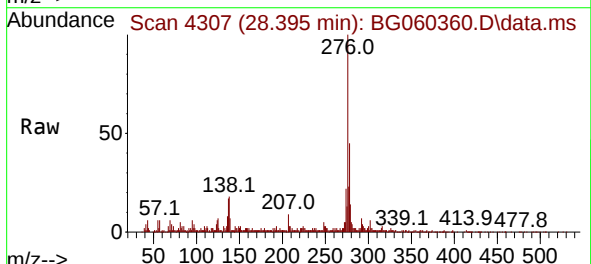
Manual Integrations  
APPROVED

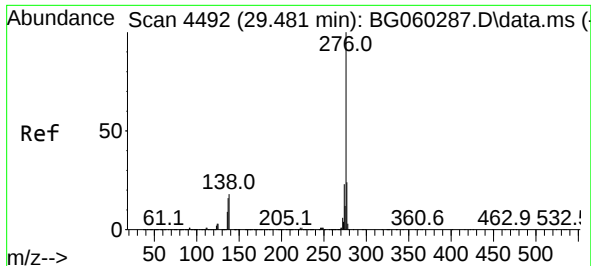
Reviewed By :Jagrut Upadhyay 01/23/2024  
Supervised By :mohammad ahmed 01/24/2024



#91  
Dibenzo(a,h)anthracene  
Concen: 2.324 ng  
RT: 28.395 min Scan# 4307  
Delta R.T. -0.016 min  
Lab File: BG060360.D  
Acq: 18 Jan 2024 20:13

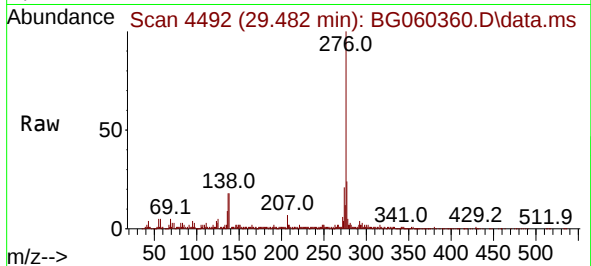
Tgt Ion:278 Resp: 237121  
Ion Ratio Lower Upper  
278 100  
139 15.5 10.9 16.3  
279 31.4 19.2 28.8#





#92  
 Benzo(g,h,i)perylene  
 Concen: 10.179 ng m  
 RT: 29.482 min Scan# 44  
 Delta R.T. 0.001 min  
 Lab File: BG060360.D  
 Acq: 18 Jan 2024 20:13

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-C-COMP



Tgt Ion:276 Resp: 106448  
 Ion Ratio Lower Upper  
 276 100  
 277 24.4 19.4 29.0  
 138 17.5 14.2 21.4

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 01/23/2024  
 Supervised By :mohammad ahmed 01/24/2024

