

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG042224\  
 Data File : BG061000.D  
 Acq On : 22 Apr 2024 20:52  
 Operator : MA/JU  
 Sample : P2124-01DL 10X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B-131-SB01DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 04/24/2024  
 Supervised By :mohammad ahmed 04/24/2024

Quant Time: Apr 23 02:22:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG042024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 22 04:22:00 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.942  | 152  | 24898    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.738 | 136  | 90372    | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.569 | 164  | 69877    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.319 | 188  | 159288   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.579 | 240  | 164690   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.710 | 264  | 189027   | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.533  | 112  | 11650    | 9.465  | ng    | 0.00     |
| 7) Phenol-d6                | 7.113  | 99   | 14935    | 8.178  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.093  | 82   | 11264    | 5.600  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.061 | 330  | 12549    | 8.178  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.194 | 172  | 29296    | 5.802  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.933 | 244  | 54606    | 5.147  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 37) 2-Methylnaphthalene     | 12.395 | 142  | 24369m   | 6.264  | ng    |          |
| 38) 1-Methylnaphthalene     | 12.613 | 142  | 26757    | 7.371  | ng    | 91       |
| 46) 1,1'-Biphenyl           | 13.400 | 154  | 9598     | 2.039  | ng    | 95       |
| 52) Acenaphthene            | 14.634 | 154  | 85537    | 23.161 | ng    | 99       |
| 55) Dibenzofuran            | 14.969 | 168  | 105645   | 16.566 | ng    | # 92     |
| 58) Fluorene                | 15.621 | 166  | 119110   | 22.128 | ng    | 98       |
| 71) Phenanthrene            | 17.360 | 178  | 379990   | 46.736 | ng    | 99       |
| 72) Anthracene              | 17.454 | 178  | 130532   | 15.588 | ng    | 97       |
| 75) Fluoranthene            | 19.375 | 202  | 206782   | 19.164 | ng    | 96       |
| 78) Pyrene                  | 19.734 | 202  | 141732   | 12.639 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.561 | 228  | 35313    | 3.050  | ng    | 97       |
| 83) Chrysene                | 21.620 | 228  | 29146m   | 2.644  | ng    |          |
| -----                       |        |      |          |        |       |          |

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

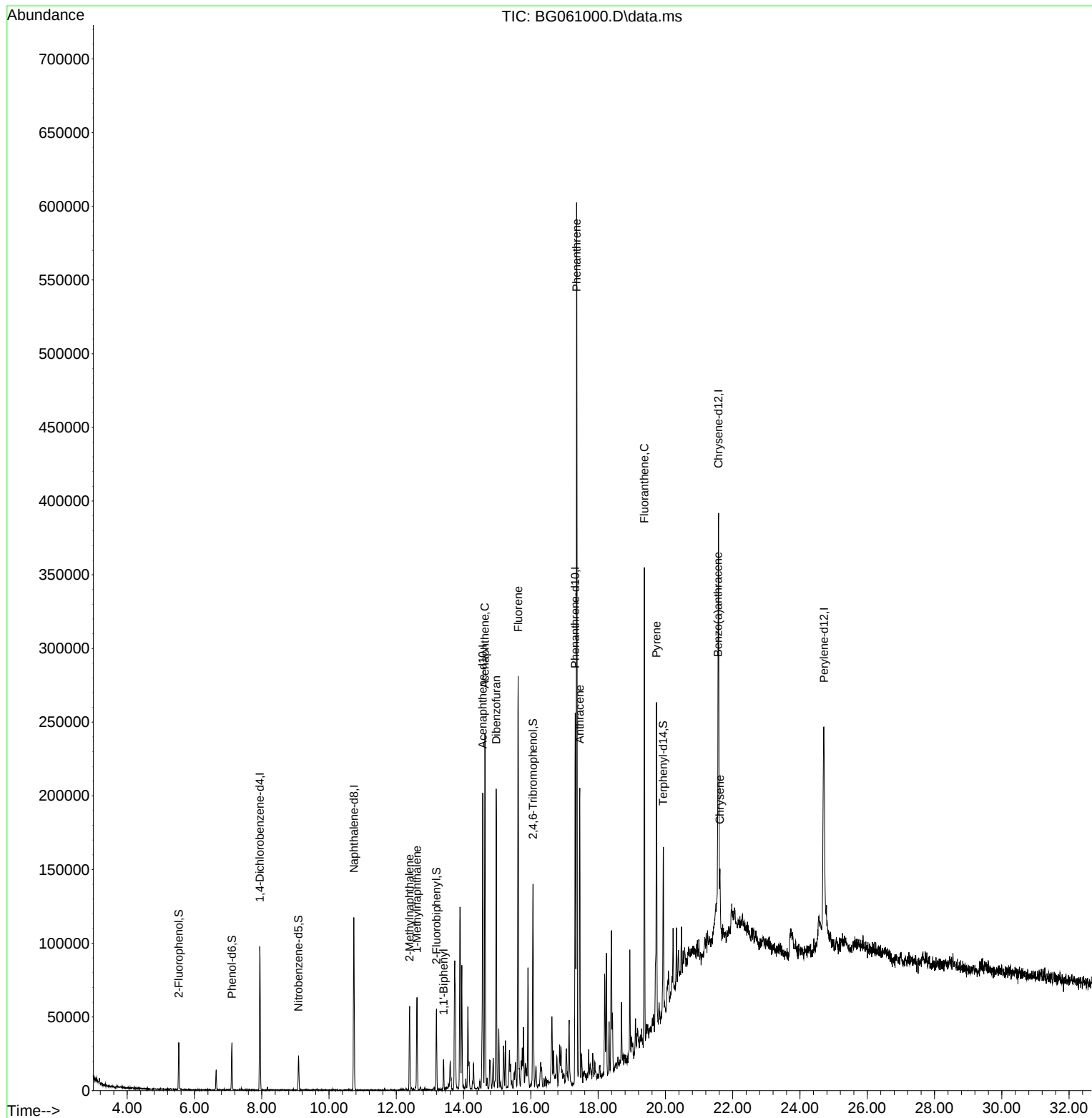
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG042224\  
Data File : BG061000.D  
Acq On : 22 Apr 2024 20:52  
Operator : MA/JU  
Sample : P2124-01DL 10X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

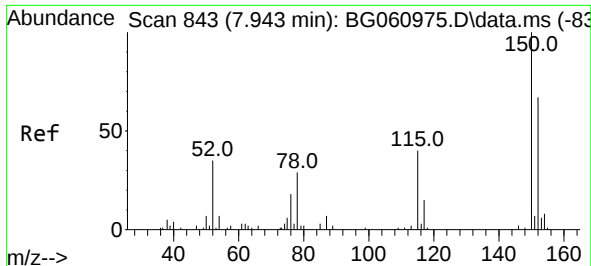
Instrument :  
BNA\_G  
ClientSampleId :  
B-131-SB01DL

Quant Time: Apr 23 02:22:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG042024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 22 04:22:00 2024  
Response via : Initial Calibration

Manual Integrations  
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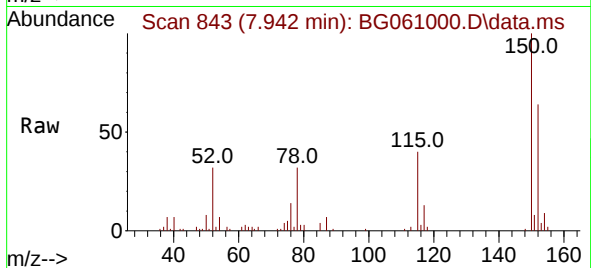
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.942 min Scan# 843  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

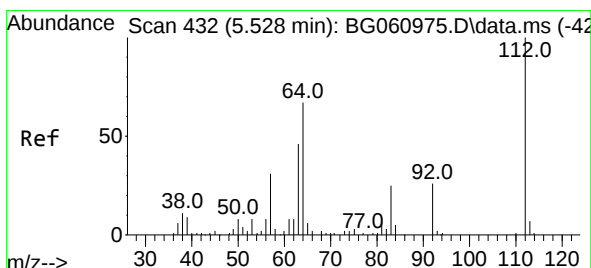
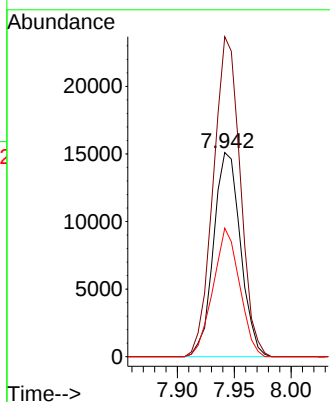
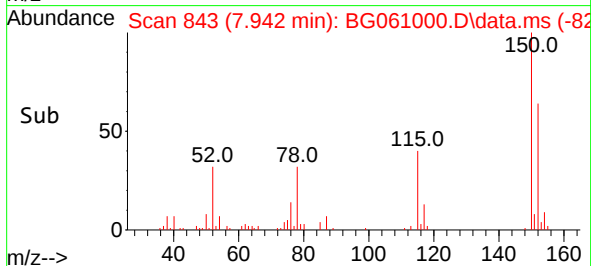
Instrument :  
BNA\_G  
ClientSampleId :  
B-131-SB01DL



Tgt Ion:152 Resp: 24898  
Ion Ratio Lower Upper  
152 100  
150 156.7 118.6 178.0  
115 62.9 47.4 71.0

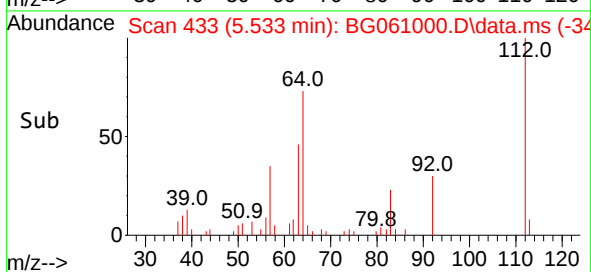
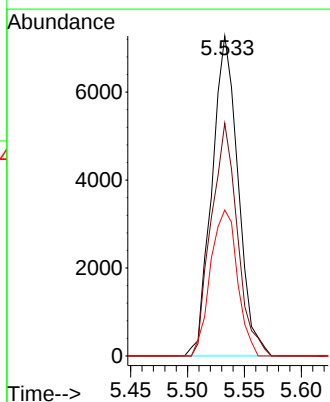
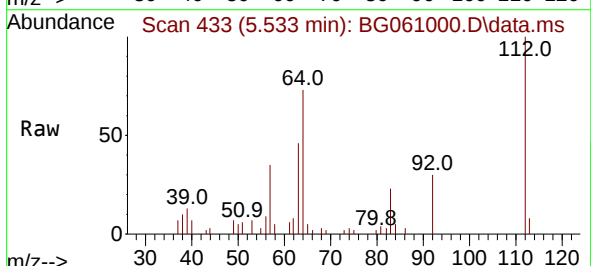
Manual Integrations  
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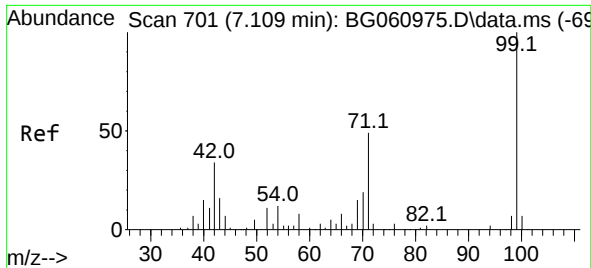
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024



#5  
2-Fluorophenol  
Concen: 9.465 ng  
RT: 5.533 min Scan# 433  
Delta R.T. 0.005 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

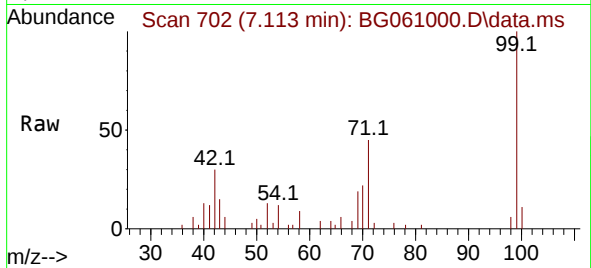
Tgt Ion:112 Resp: 11650  
Ion Ratio Lower Upper  
112 100  
64 72.7 53.7 80.5  
63 45.6 37.0 55.6





#7  
Phenol-d6  
Concen: 8.178 ng  
RT: 7.113 min Scan# 701  
Delta R.T. 0.005 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

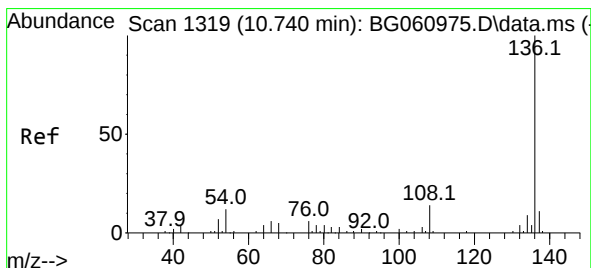
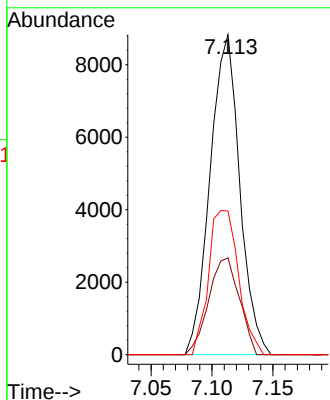
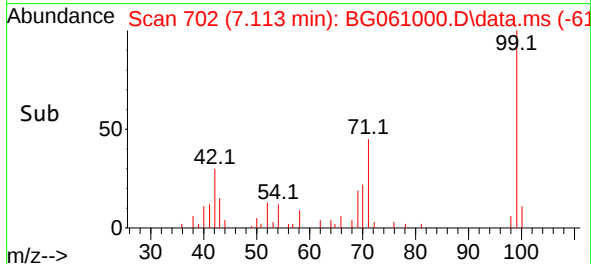
Instrument :  
BNA\_G  
ClientSampleId :  
B-131-SB01DL



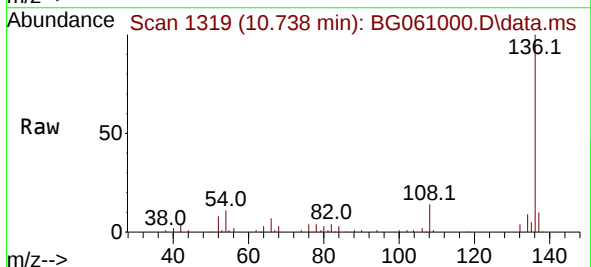
Tgt Ion: 99 Resp: 14938  
Ion Ratio Lower Upper  
99 100  
42 30.3 27.2 40.8  
71 44.9 38.8 58.2

Manual Integrations  
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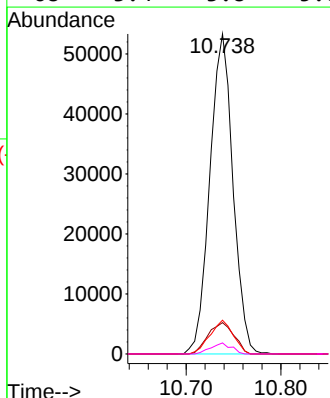
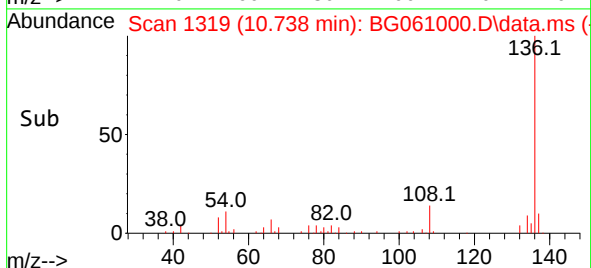
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024

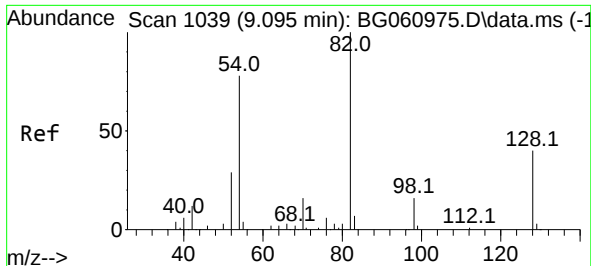


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.738 min Scan# 1319  
Delta R.T. -0.002 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52



Tgt Ion:136 Resp: 90372  
Ion Ratio Lower Upper  
136 100  
137 9.8 8.5 12.7  
54 10.6 9.4 14.0  
68 3.4 3.8 5.6#





#23

Nitrobenzene-d5

Concen: 5.600 ng

RT: 9.093 min Scan# 1039

Delta R.T. -0.001 min

Lab File: BG061000.D

Acq: 22 Apr 2024 20:52

Instrument :

BNA\_G

ClientSampleId :

B-131-SB01DL

Tgt Ion: 82 Resp: 11264

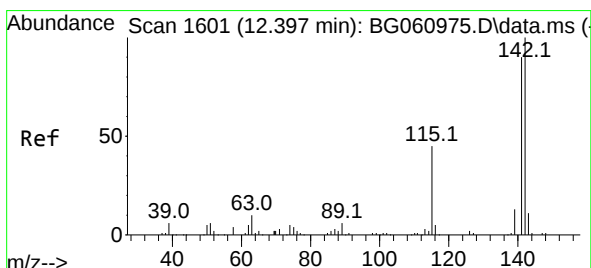
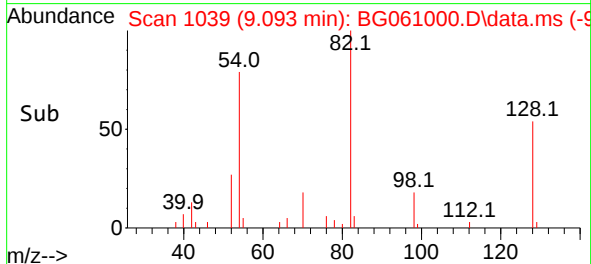
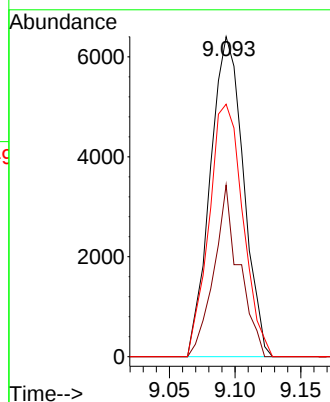
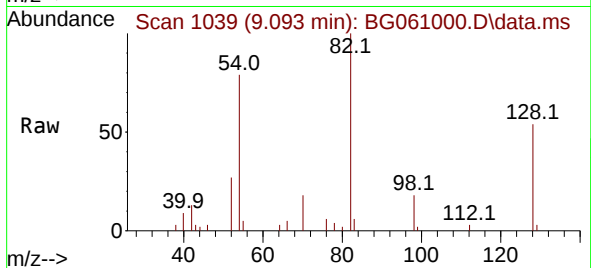
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 53.6  | 32.1  | 48.1  |
| 54  | 78.9  | 62.3  | 93.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#37

2-Methylnaphthalene

Concen: 6.264 ng m

RT: 12.395 min Scan# 1601

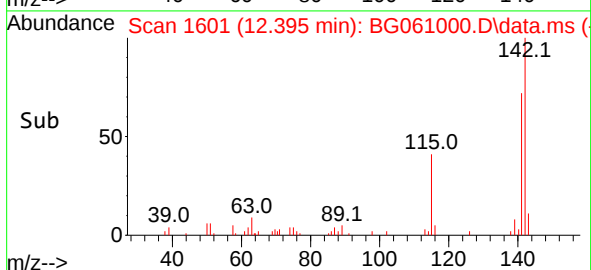
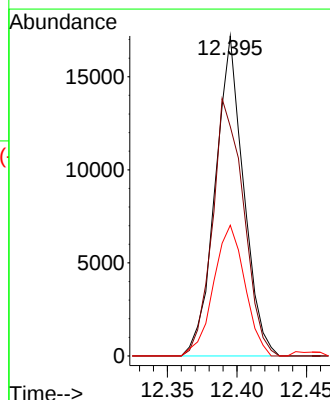
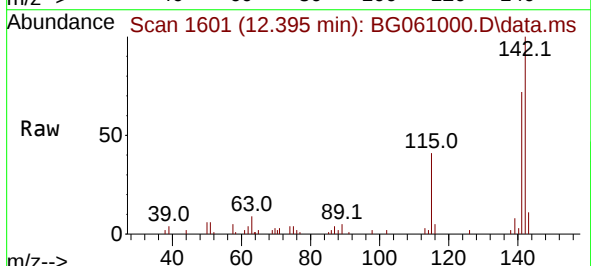
Delta R.T. -0.001 min

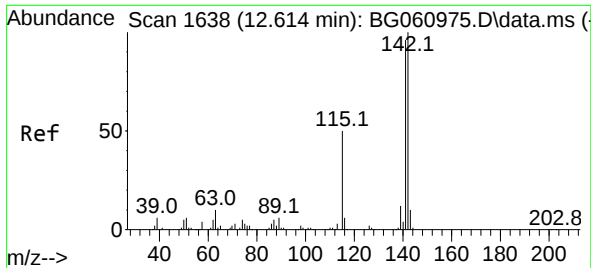
Lab File: BG061000.D

Acq: 22 Apr 2024 20:52

Tgt Ion:142 Resp: 24369

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 71.7  | 72.2  | 108.4 |
| 115 | 40.8  | 35.9  | 53.9  |





#38  
1-Methylnaphthalene  
Concen: 7.371 ng  
RT: 12.613 min Scan# 1  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

Instrument :

BNA\_G

ClientSampleId :

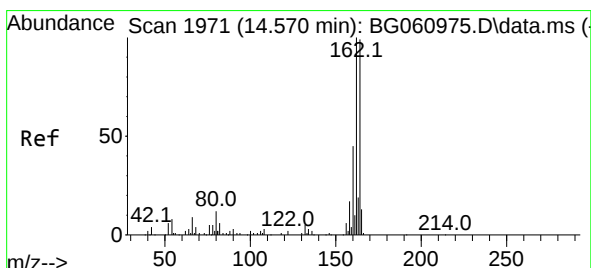
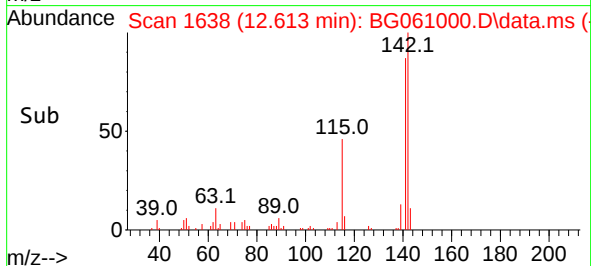
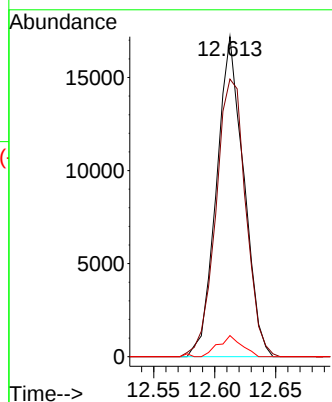
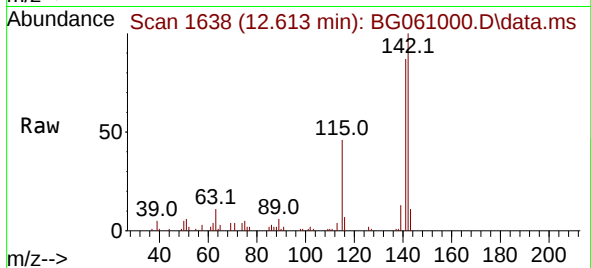
B-131-SB01DL

Tgt Ion:142 Resp: 2675  
Ion Ratio Lower Upper  
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141 86.7 76.8 115.2  
116 6.6 4.4 6.6

Manual Integrations

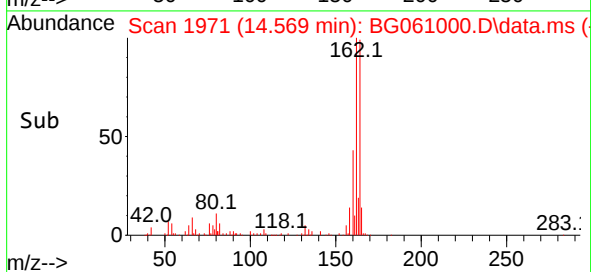
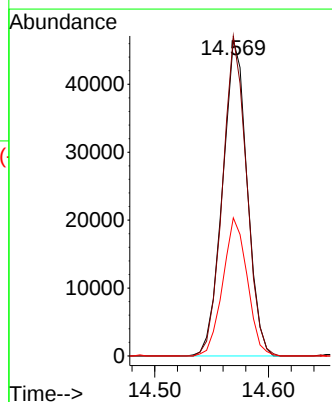
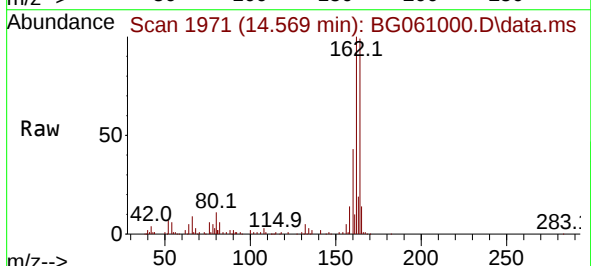
APPROVED

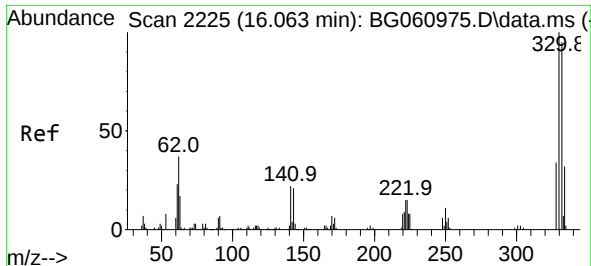
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.569 min Scan# 1971  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

Tgt Ion:164 Resp: 69877  
Ion Ratio Lower Upper  
164 100  
162 101.2 81.2 121.8  
160 43.7 36.2 54.2





#42  
2,4,6-Tribromophenol  
Concen: 8.178 ng  
RT: 16.061 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

Instrument :

BNA\_G

ClientSampleId :

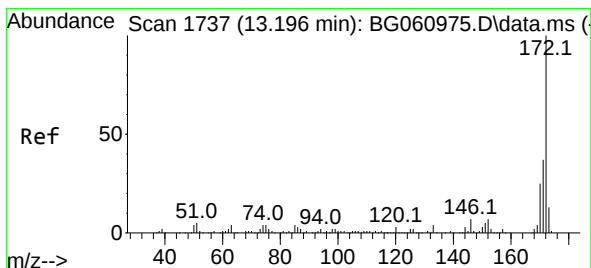
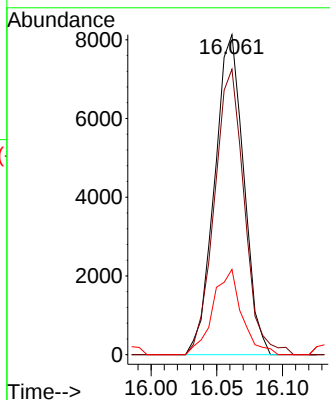
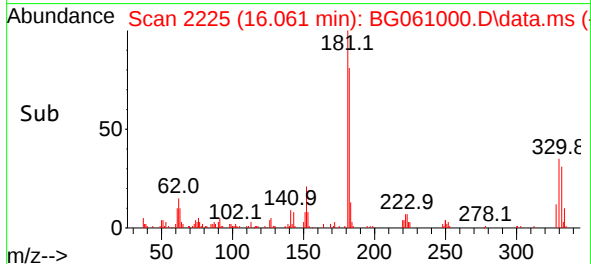
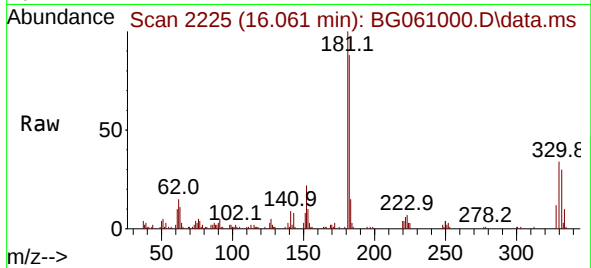
B-131-SB01DL

Tgt Ion:330 Resp: 12549  
Ion Ratio Lower Upper  
330 100  
332 91.3 77.1 115.7  
141 26.3 20.6 31.0

Manual Integrations

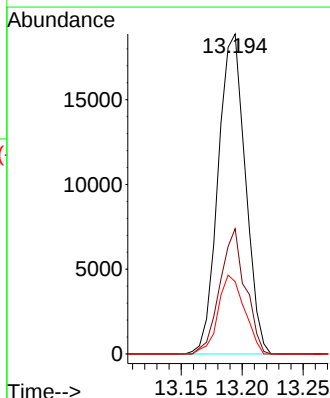
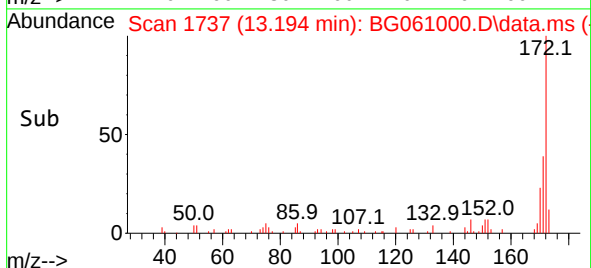
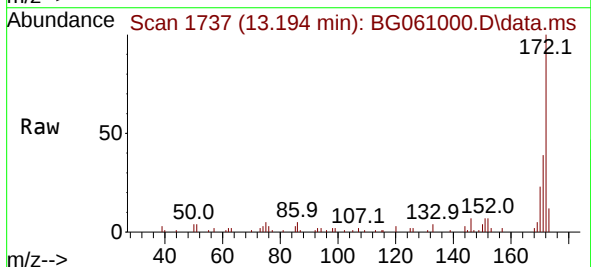
APPROVED

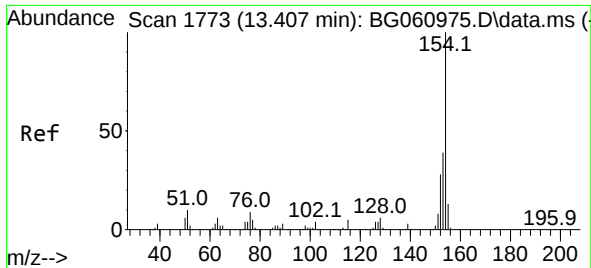
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024



#45  
2-Fluorobiphenyl  
Concen: 5.802 ng  
RT: 13.194 min Scan# 1737  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

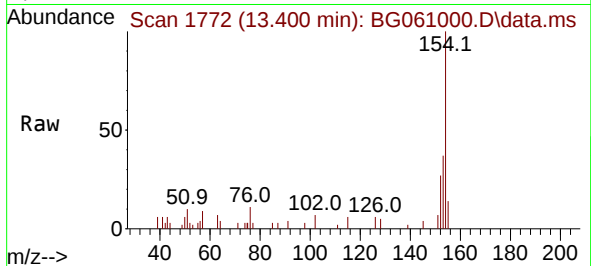
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Ion Ratio Lower Upper  
172 100  
171 39.2 29.3 43.9  
170 22.6 20.1 30.1





#46  
1,1'-Biphenyl  
Concen: 2.039 ng  
RT: 13.400 min Scan# 1773  
Delta R.T. -0.007 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

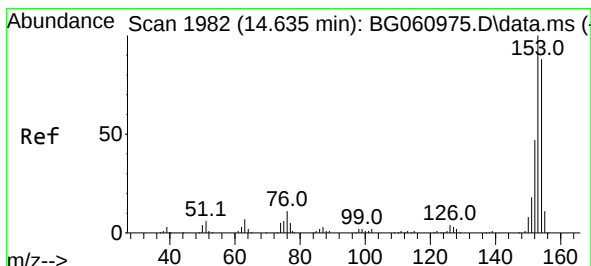
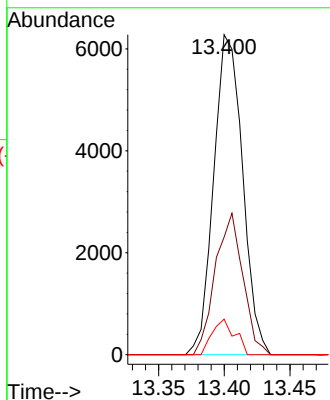
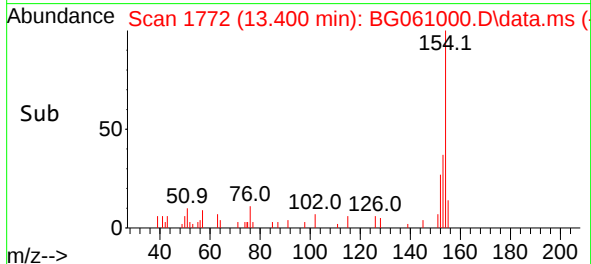
Instrument :  
BNA\_G  
ClientSampleId :  
B-131-SB01DL



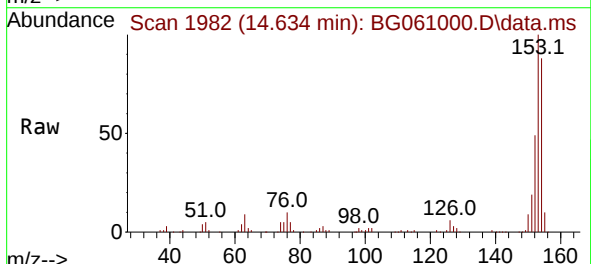
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Ion Ratio Lower Upper  
154 100  
153 36.7 19.4 59.4  
76 11.1 0.0 28.6

Manual Integrations  
APPROVED

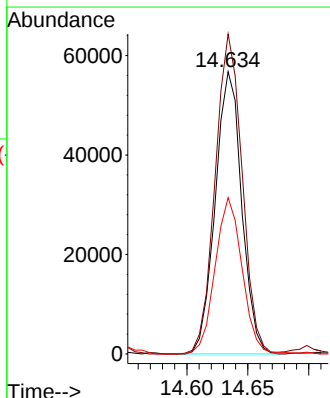
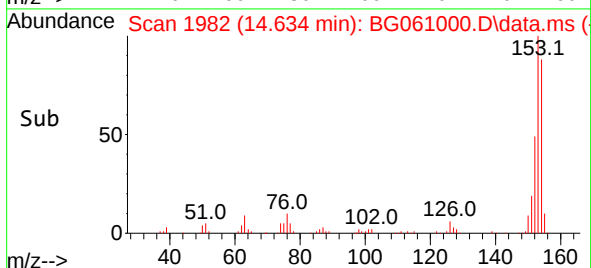
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024

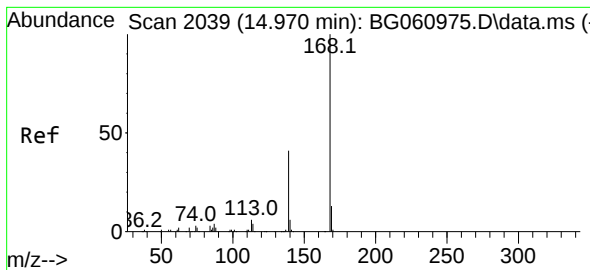


#52  
Acenaphthene  
Concen: 23.161 ng  
RT: 14.634 min Scan# 1982  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52



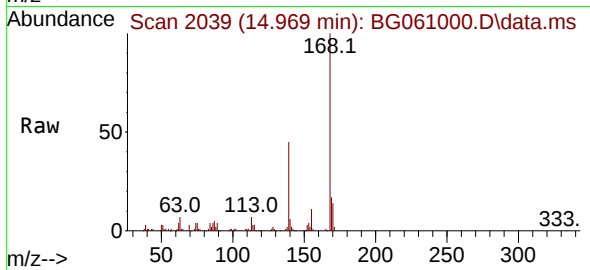
Tgt Ion:154 Resp: 85537  
Ion Ratio Lower Upper  
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153 113.3 91.2 136.8  
152 55.4 42.7 64.1





#55  
Dibenzenofuran  
Concen: 16.566 ng  
RT: 14.969 min Scan# 2039  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

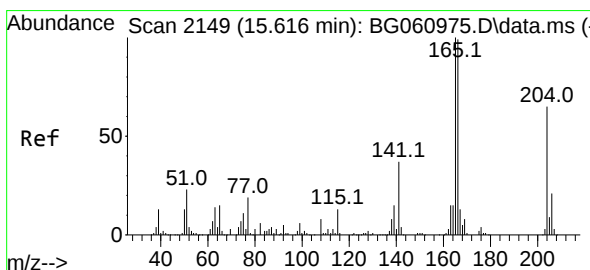
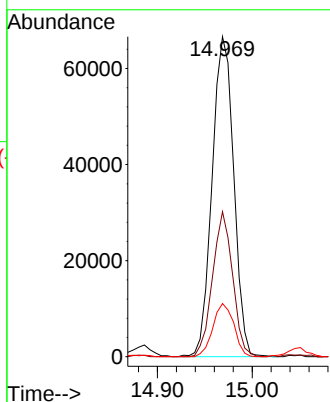
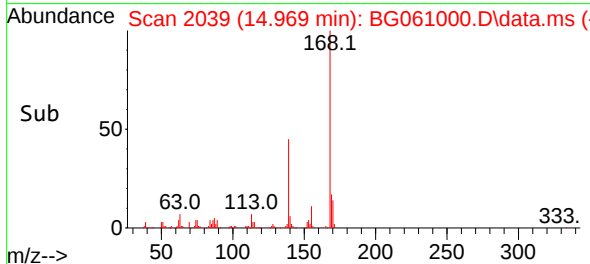
Instrument :  
BNA\_G  
ClientSampleId :  
B-131-SB01DL



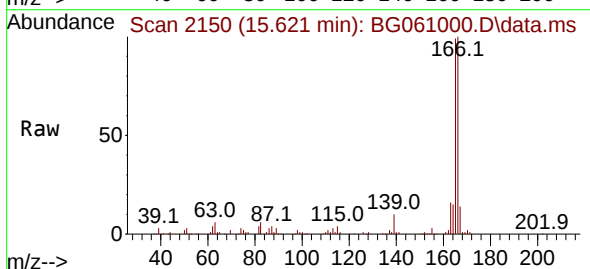
Tgt Ion:168 Resp: 10564  
Ion Ratio Lower Upper  
168 100  
139 45.3 32.4 48.6  
169 16.6 10.6 15.8

Manual Integrations  
APPROVED

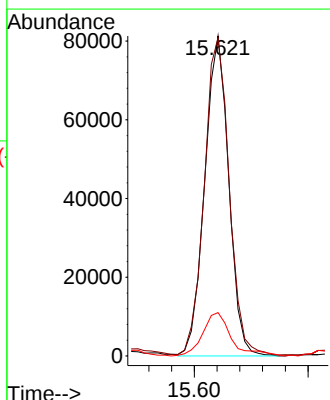
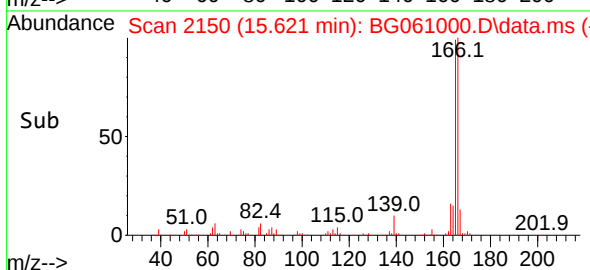
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024

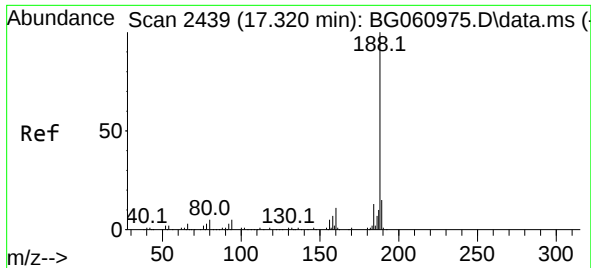


#58  
Fluorene  
Concen: 22.128 ng  
RT: 15.621 min Scan# 2150  
Delta R.T. 0.005 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52



Tgt Ion:166 Resp: 119110  
Ion Ratio Lower Upper  
166 100  
165 99.4 80.9 121.3  
167 13.6 10.5 15.7





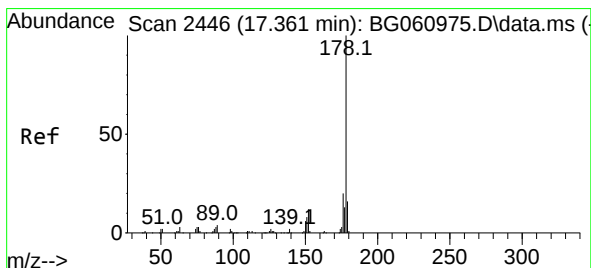
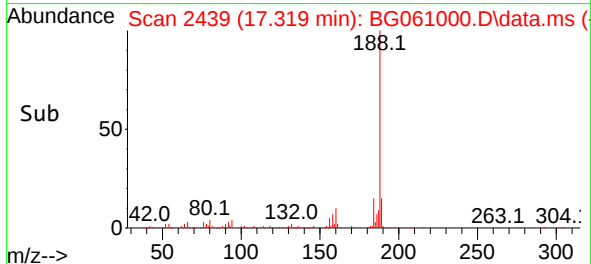
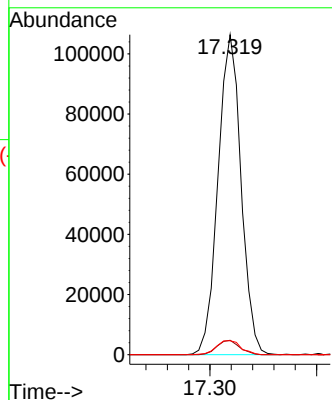
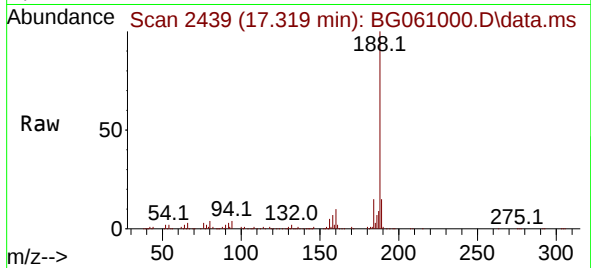
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.319 min Scan# 2439  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

Instrument :  
BNA\_G  
ClientSampleId :  
B-131-SB01DL

Tgt Ion:188 Resp: 159288  
Ion Ratio Lower Upper  
188 100  
94 4.5 4.1 6.1  
80 4.4 4.0 6.0

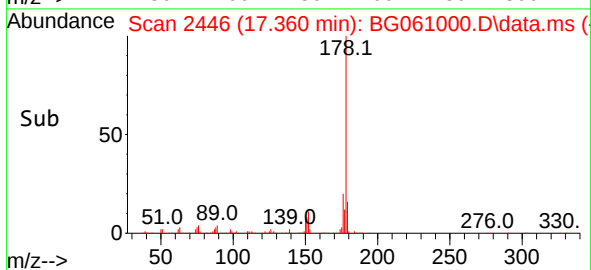
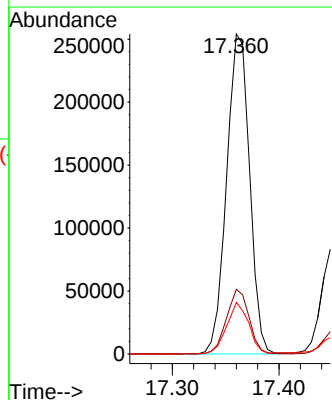
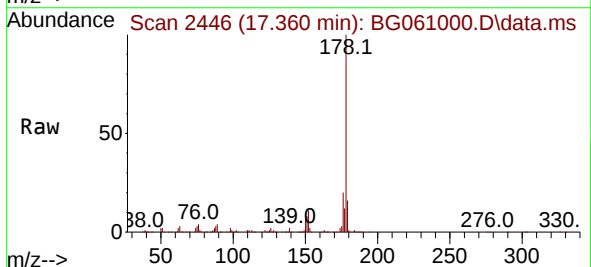
Manual Integrations  
APPROVED

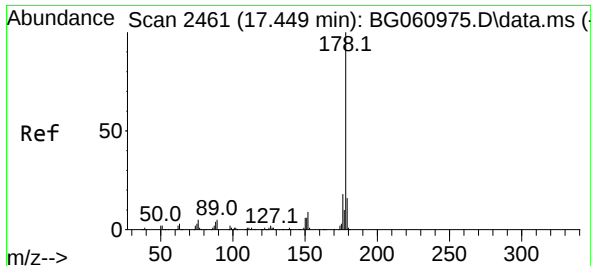
Reviewed By :Yogesh Patel 04/24/2024  
Supervised By :mohammad ahmed 04/24/2024



#71  
Phenanthrene  
Concen: 46.736 ng  
RT: 17.360 min Scan# 2446  
Delta R.T. -0.001 min  
Lab File: BG061000.D  
Acq: 22 Apr 2024 20:52

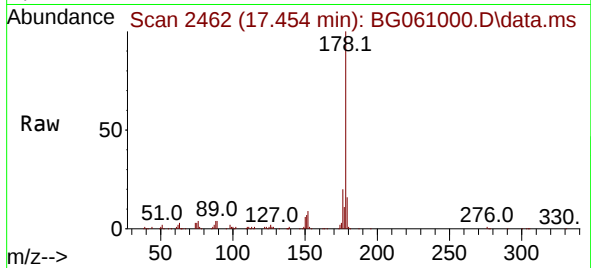
Tgt Ion:178 Resp: 379990  
Ion Ratio Lower Upper  
178 100  
176 20.2 16.0 24.0  
179 16.1 12.5 18.7





#72  
 Anthracene  
 Concen: 15.588 ng  
 RT: 17.454 min Scan# 2461  
 Delta R.T. 0.005 min  
 Lab File: BG061000.D  
 Acq: 22 Apr 2024 20:52

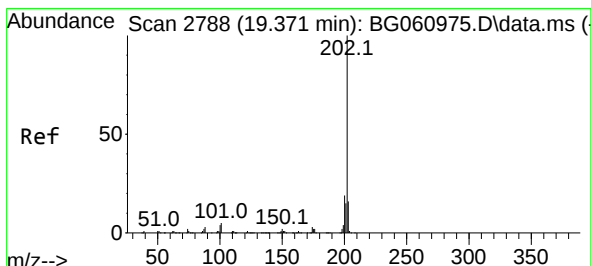
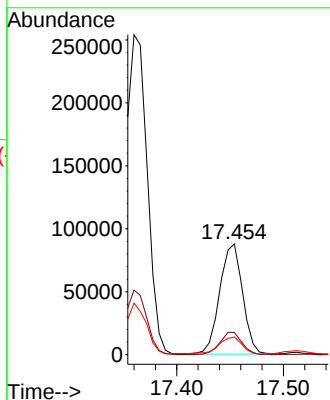
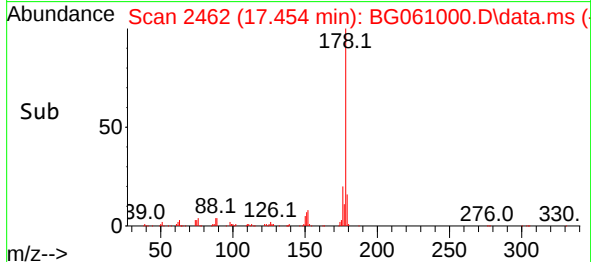
Instrument :  
 BNA\_G  
 ClientSampleId :  
 B-131-SB01DL



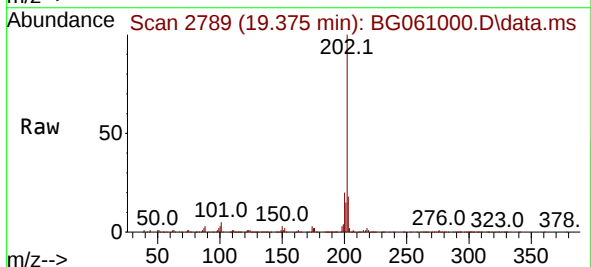
Tgt Ion:178 Resp: 130532  
 Ion Ratio Lower Upper  
 178 100  
 176 20.0 14.7 22.1  
 179 16.1 12.4 18.6

Manual Integrations  
 APPROVED

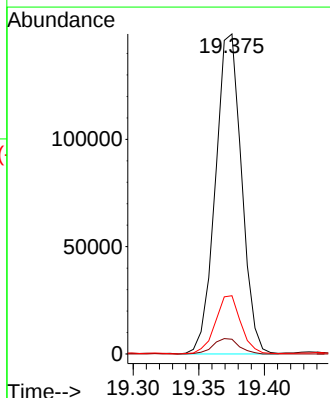
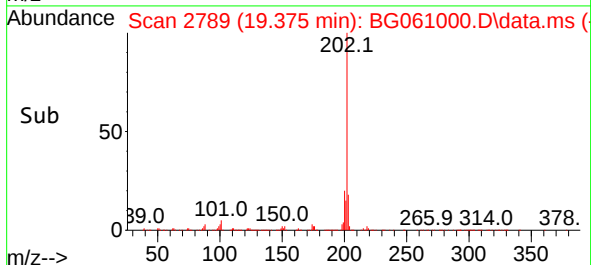
Reviewed By :Yogesh Patel 04/24/2024  
 Supervised By :mohammad ahmed 04/24/2024

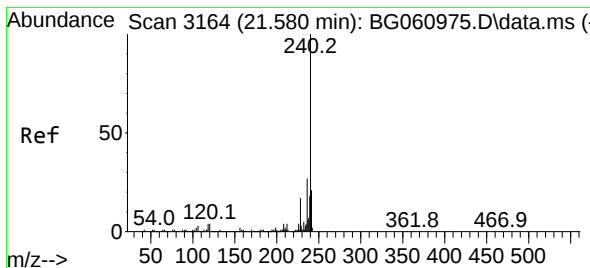


#75  
 Fluoranthene  
 Concen: 19.164 ng  
 RT: 19.375 min Scan# 2789  
 Delta R.T. 0.005 min  
 Lab File: BG061000.D  
 Acq: 22 Apr 2024 20:52



Tgt Ion:202 Resp: 206782  
 Ion Ratio Lower Upper  
 202 100  
 101 4.6 0.0 24.9  
 203 18.2 0.0 36.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.579 min Scan# 3164

Delta R.T. -0.001 min

Lab File: BG061000.D

Acq: 22 Apr 2024 20:52

Instrument :

BNA\_G

ClientSampleId :

B-131-SB01DL

Tgt Ion:240 Resp: 164690

Ion Ratio Lower Upper

240 100

120 4.2 3.0 4.6

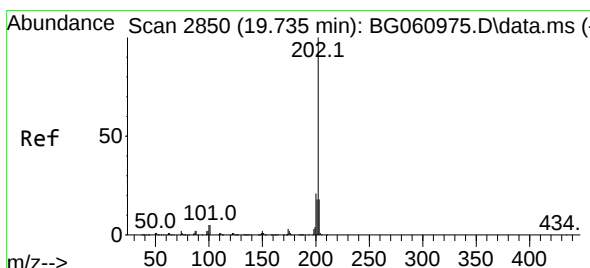
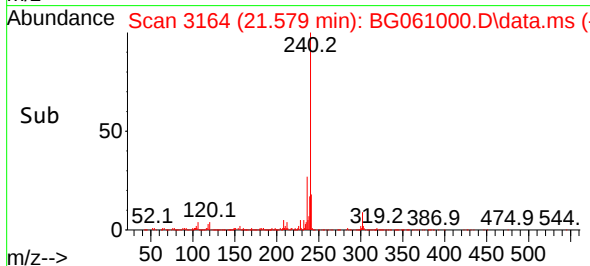
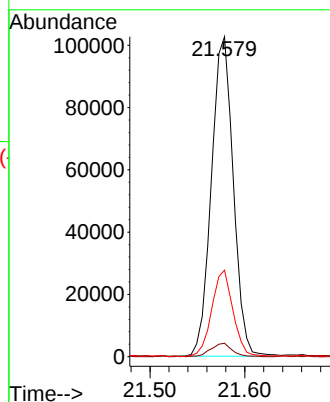
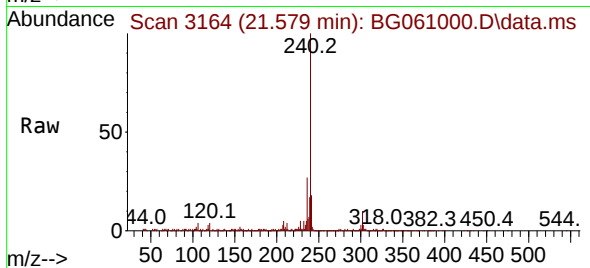
236 27.1 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#78

Pyrene

Concen: 12.639 ng

RT: 19.734 min Scan# 2850

Delta R.T. -0.001 min

Lab File: BG061000.D

Acq: 22 Apr 2024 20:52

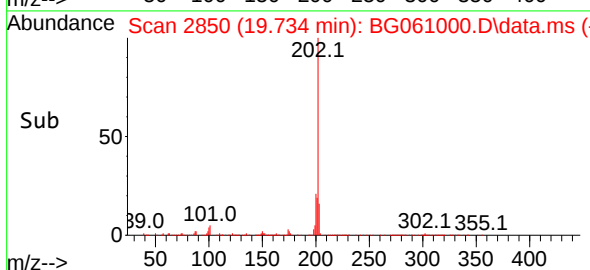
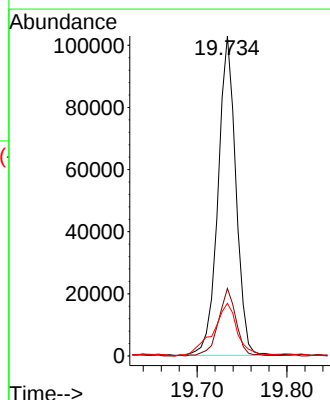
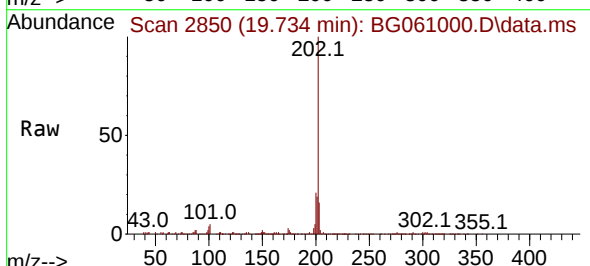
Tgt Ion:202 Resp: 141732

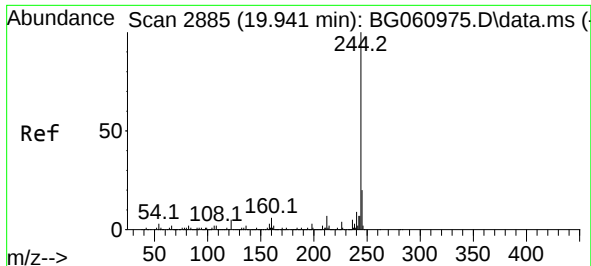
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 16.5 14.2 21.2





#79  
 Terphenyl-d14  
 Concen: 5.147 ng  
 RT: 19.933 min Scan# 21  
 Delta R.T. -0.007 min  
 Lab File: BG061000.D  
 Acq: 22 Apr 2024 20:52

Instrument :

BNA\_G

ClientSampleId :

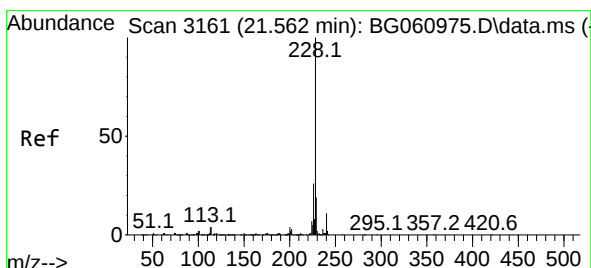
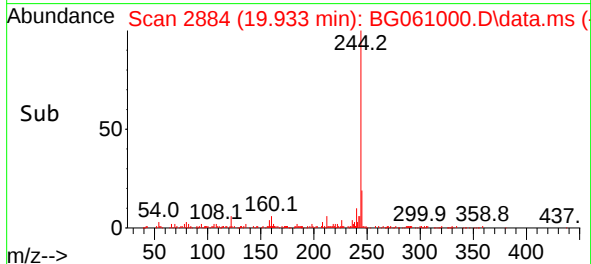
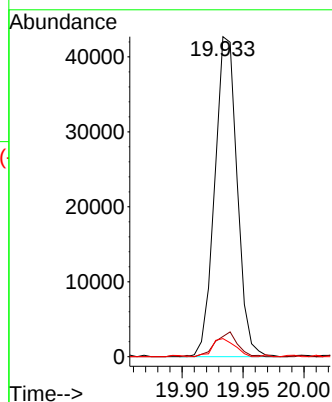
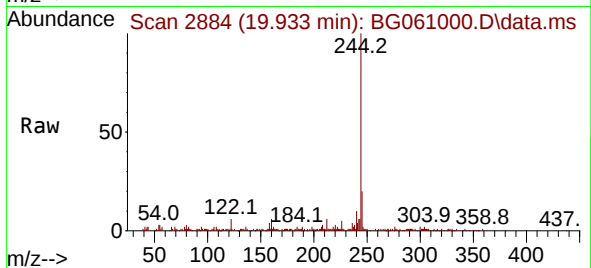
B-131-SB01DL

Tgt Ion:244 Resp: 54600  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.9 8.9  
 122 5.6 4.2 6.2

Manual Integrations

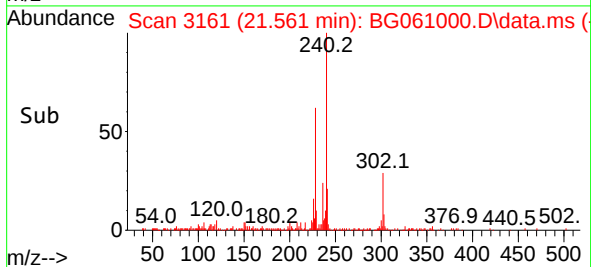
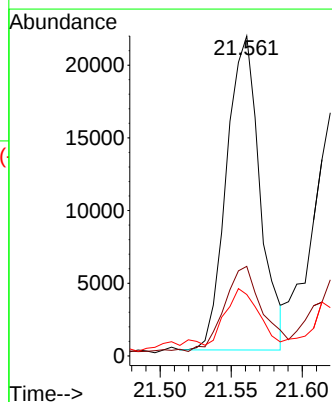
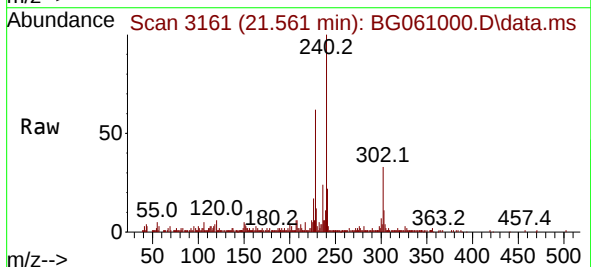
APPROVED

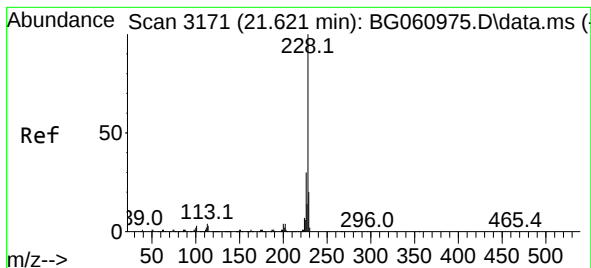
Reviewed By :Yogesh Patel 04/24/2024  
 Supervised By :mohammad ahmed 04/24/2024



#81  
 Benzo(a)anthracene  
 Concen: 3.050 ng  
 RT: 21.561 min Scan# 3161  
 Delta R.T. -0.001 min  
 Lab File: BG061000.D  
 Acq: 22 Apr 2024 20:52

Tgt Ion:228 Resp: 35313  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 21.0 31.4  
 229 19.2 15.0 22.4





#83

Chrysene

Concen: 2.644 ng m

RT: 21.620 min Scan# 3171

Delta R.T. -0.001 min

Lab File: BG061000.D

Acq: 22 Apr 2024 20:52

Instrument :

BNA\_G

ClientSampleId :

B-131-SB01DL

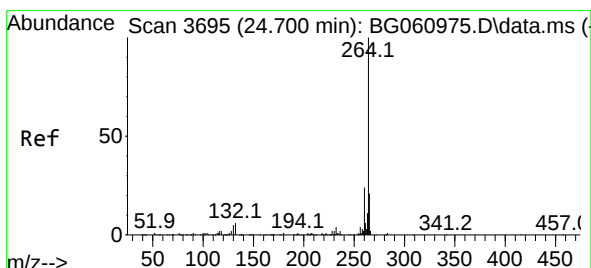
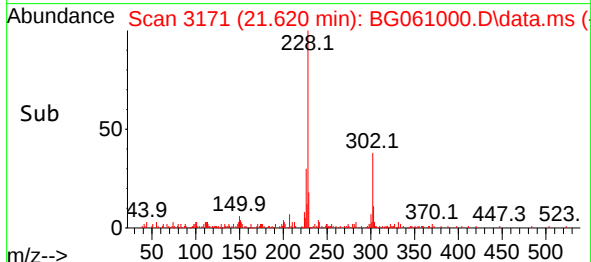
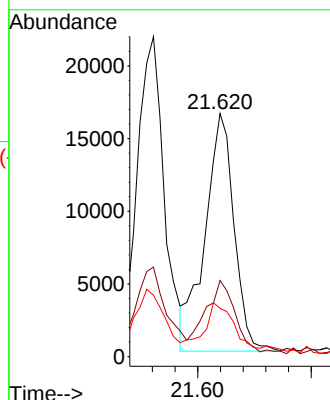
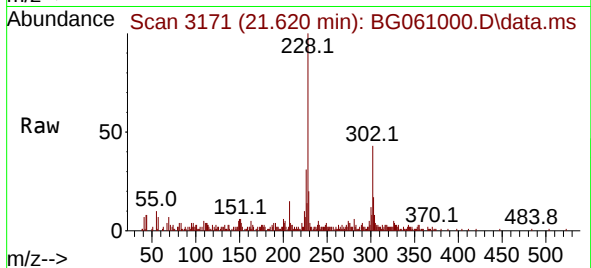
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 29140 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.3  | 24.2  | 36.2  |
| 229       | 19.8  | 15.7  | 23.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.710 min Scan# 3697

Delta R.T. 0.010 min

Lab File: BG061000.D

Acq: 22 Apr 2024 20:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 189027 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 21.6  | 19.4  | 29.2   |
| 265       | 22.9  | 17.0  | 25.4   |

