

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082923\  
 Data File : BG058889.D  
 Acq On : 29 Aug 2023 16:04  
 Operator : MA/JU  
 Sample : 04188-07  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-5

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/30/2023  
 Supervised By :mohammad ahmed 08/30/2023

Quant Time: Aug 29 16:53:41 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG081823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 29 14:27:28 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.789  | 152  | 17625    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.591 | 136  | 76880    | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.440 | 164  | 55155    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.183 | 188  | 118732   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.426 | 240  | 97218    | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.481 | 264  | 122316   | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.362  | 112  | 99764    | 91.090 | ng    | 0.00     |
| 7) Phenol-d6                | 6.966  | 99   | 143125   | 93.143 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.952  | 82   | 88482    | 55.333 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.932 | 330  | 78834    | 91.157 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.059 | 172  | 217563   | 57.372 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.804 | 244  | 328684   | 60.707 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.225 | 178  | 34142    | 5.990  | ng    | 98       |
| 75) Fluoranthene            | 19.246 | 202  | 91488    | 12.943 | ng    | 98       |
| 78) Pyrene                  | 19.604 | 202  | 76115    | 11.237 | ng    | 97       |
| 81) Benzo(a)anthracene      | 21.408 | 228  | 41794    | 6.176  | ng    | 97       |
| 83) Chrysene                | 21.473 | 228  | 40020    | 6.135  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.965 | 276  | 25241    | 3.050  | ng    | # 85     |
| 88) Benzo(b)fluoranthene    | 23.517 | 252  | 56267    | 8.291  | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.570 | 252  | 17724m   | 2.532  | ng    |          |
| 90) Benzo(a)pyrene          | 24.334 | 252  | 38413    | 5.748  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 29.040 | 276  | 22340    | 3.286  | ng    | 100      |
| -----                       |        |      |          |        |       |          |

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

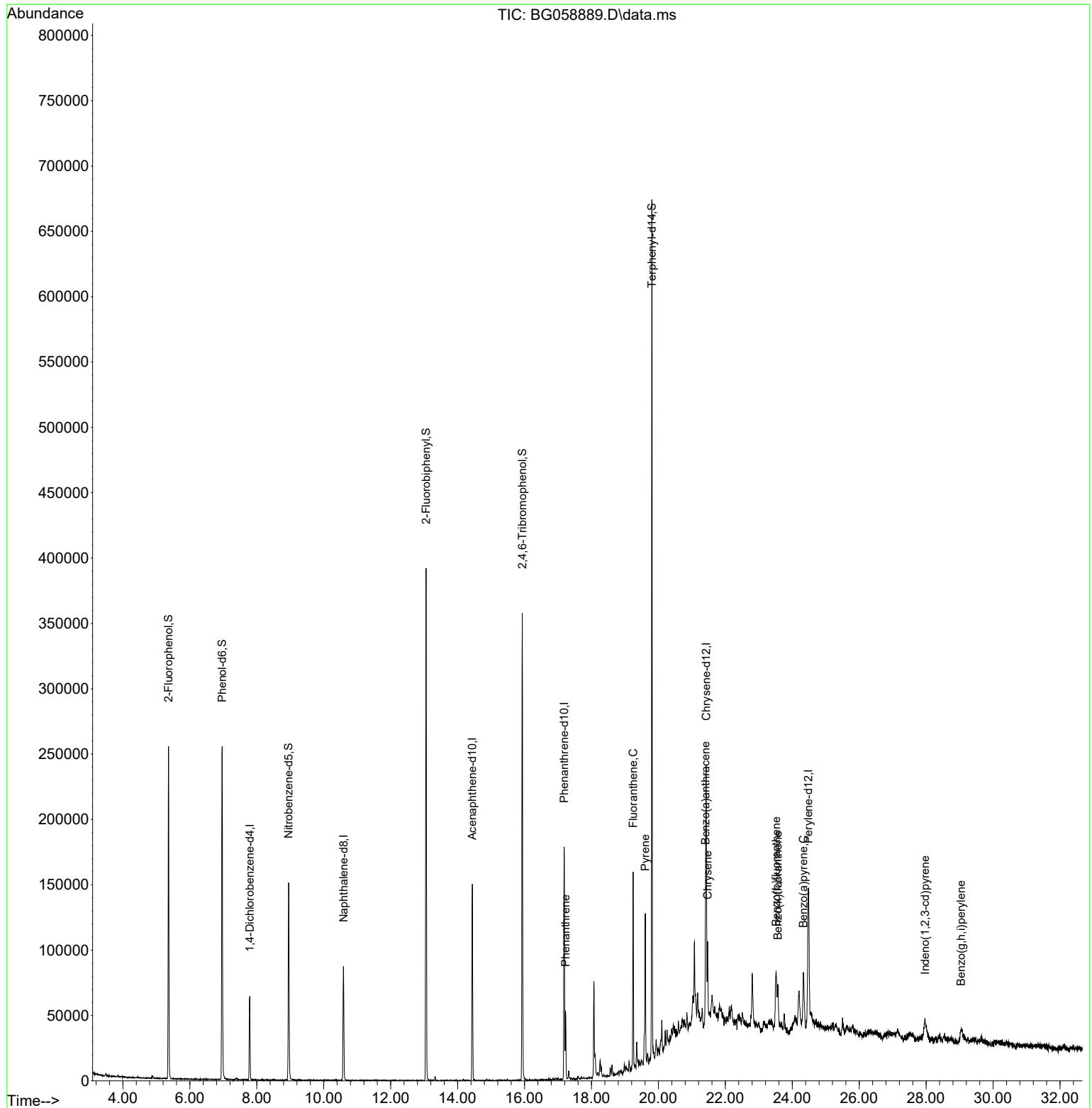
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082923\  
Data File : BG058889.D  
Acq On : 29 Aug 2023 16:04  
Operator : MA/JU  
Sample : 04188-07  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

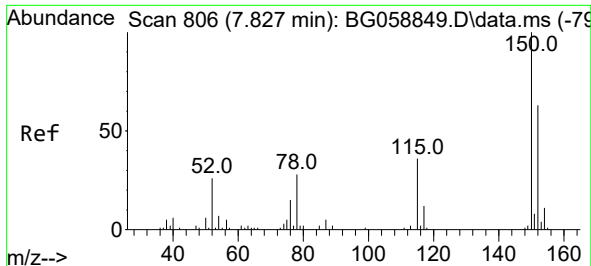
Instrument :  
BNA\_G  
ClientSampleId :  
WC-5

Quant Time: Aug 29 16:53:41 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG081823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 29 14:27:28 2023  
Response via : Initial Calibration

Manual Integrations  
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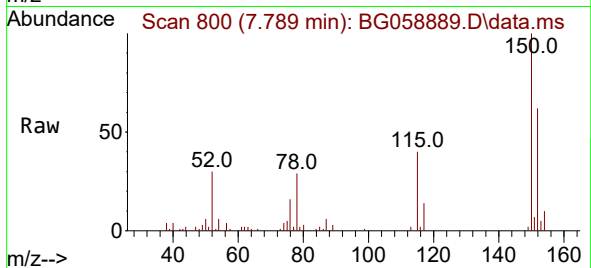
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.789 min Scan# 806  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

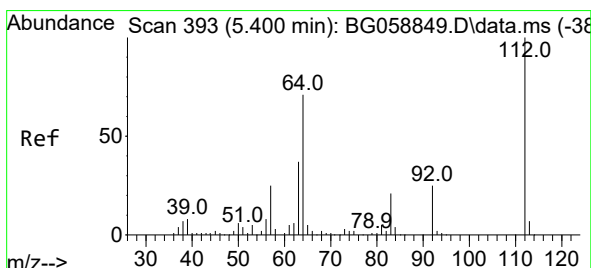
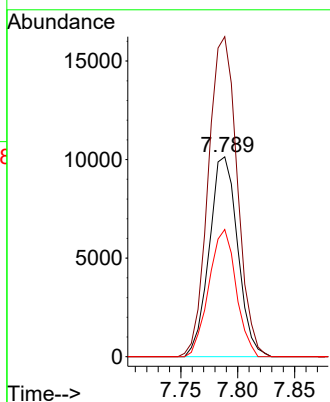
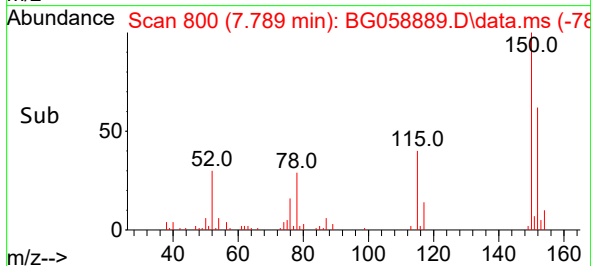
Instrument :  
BNA\_G  
ClientSampleId :  
WC-5



Tgt Ion:152 Resp: 1762  
Ion Ratio Lower Upper  
152 100  
150 160.1 128.6 192.8  
115 63.6 50.4 75.6

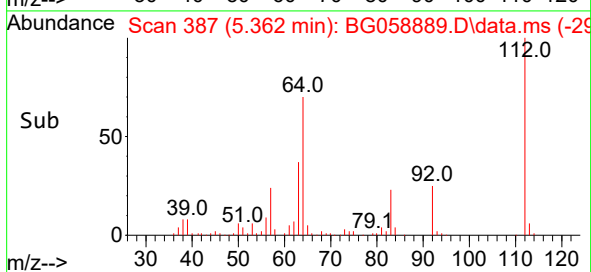
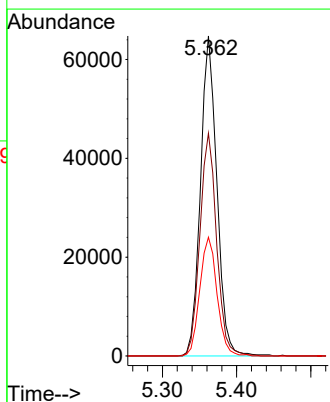
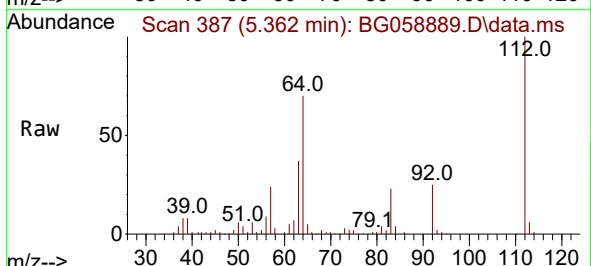
Manual Integrations  
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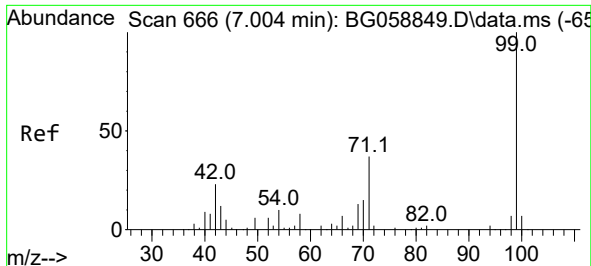
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#5  
2-Fluorophenol  
Concen: 91.090 ng  
RT: 5.362 min Scan# 387  
Delta R.T. 0.005 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

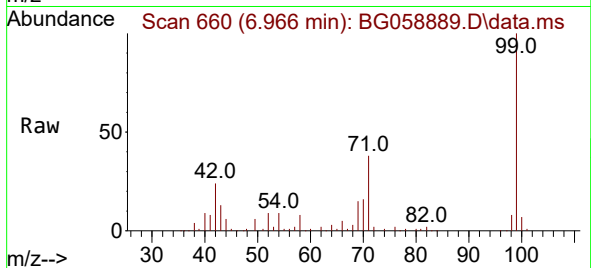
Tgt Ion:112 Resp: 99764  
Ion Ratio Lower Upper  
112 100  
64 69.6 60.6 90.8  
63 37.1 31.0 46.4





#7  
Phenol-d6  
Concen: 93.143 ng  
RT: 6.966 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

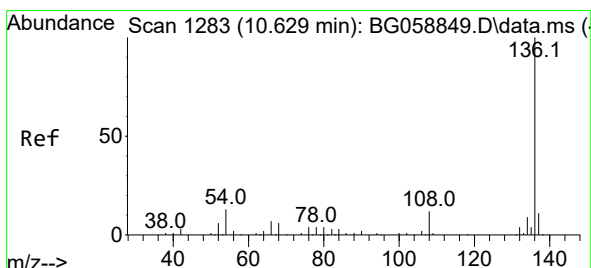
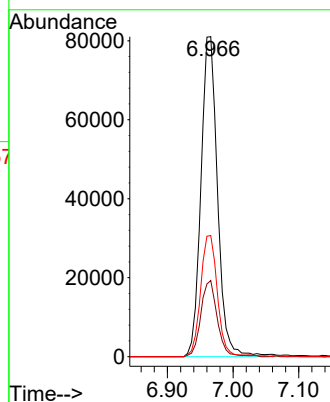
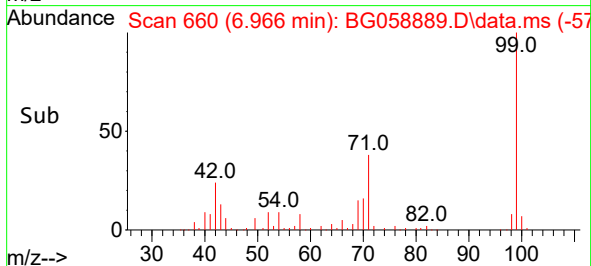
Instrument :  
BNA\_G  
ClientSampleId :  
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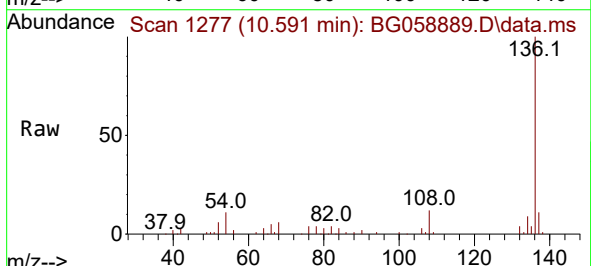
Tgt Ion: 99 Resp: 143125  
Ion Ratio Lower Upper  
99 100  
42 23.8 16.5 24.7  
71 37.8 28.4 42.6

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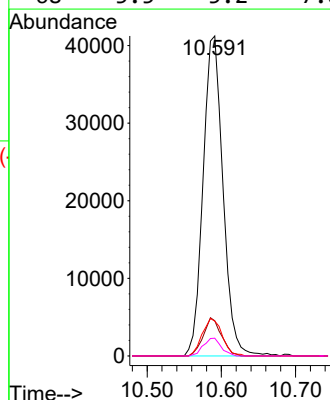
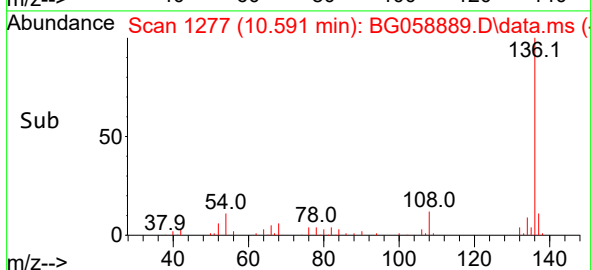
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

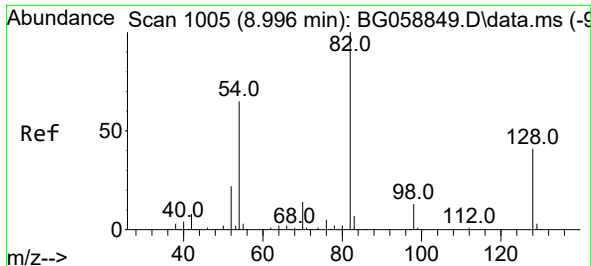


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.591 min Scan# 1277  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04



Tgt Ion:136 Resp: 76880  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.7 13.1  
54 10.9 10.1 15.1  
68 5.5 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 55.333 ng  
RT: 8.952 min Scan# 998  
Delta R.T. -0.006 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

Instrument :

BNA\_G

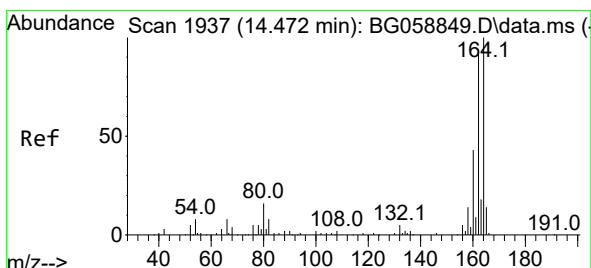
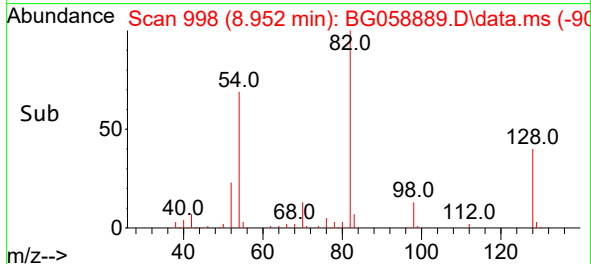
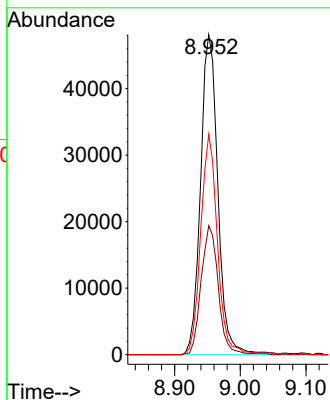
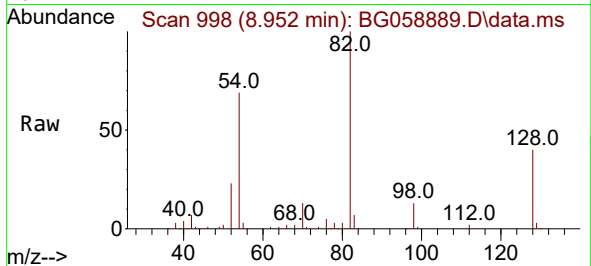
ClientSampleId :

WC-5

Tgt Ion: 82 Resp: 8848  
Ion Ratio Lower Upper  
82 100  
128 40.3 33.2 49.8  
54 68.9 51.2 76.8

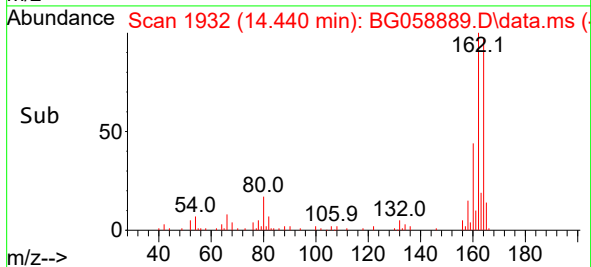
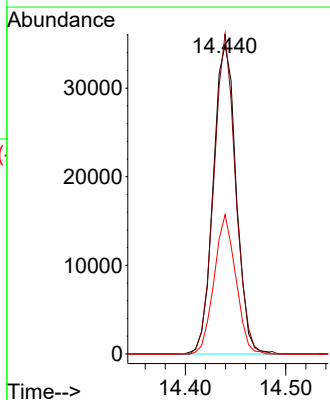
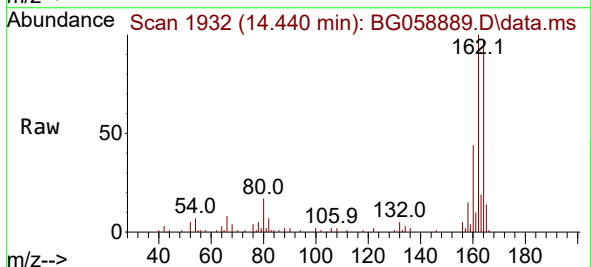
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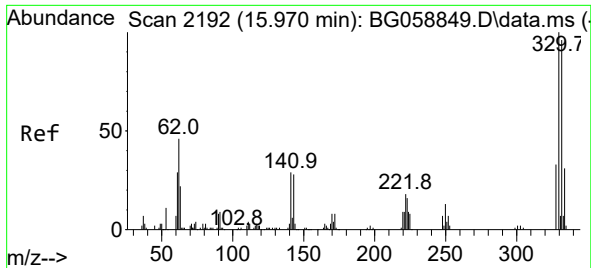
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.440 min Scan# 1932  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

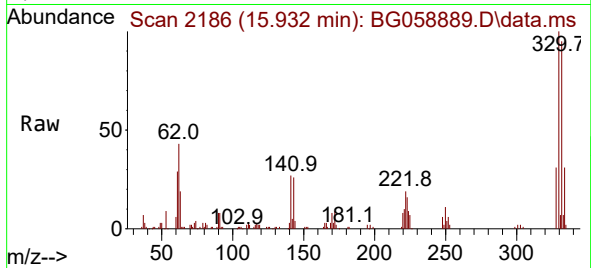
Tgt Ion:164 Resp: 55155  
Ion Ratio Lower Upper  
164 100  
162 103.5 79.6 119.4  
160 45.1 34.0 51.0





#42  
2,4,6-Tribromophenol  
Concen: 91.157 ng  
RT: 15.932 min Scan# 2192  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

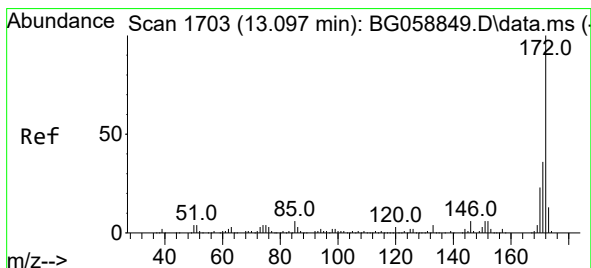
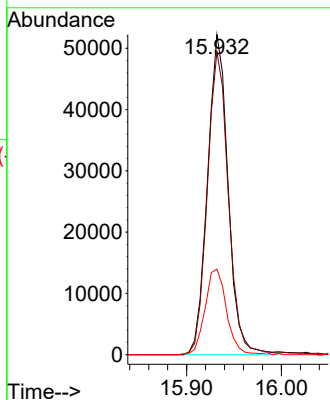
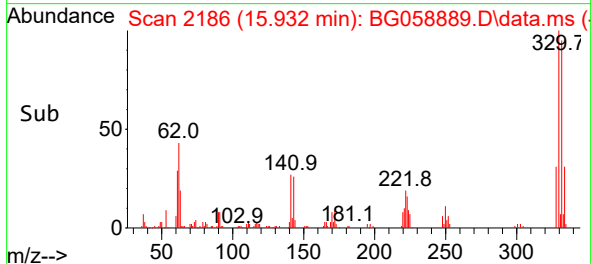
Instrument :  
BNA\_G  
ClientSampleId :  
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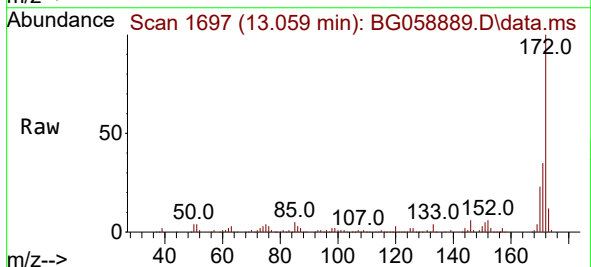
Tgt Ion:330 Resp: 78834  
Ion Ratio Lower Upper  
330 100  
332 97.4 78.5 117.7  
141 28.0 23.0 34.6

Manual Integrations  
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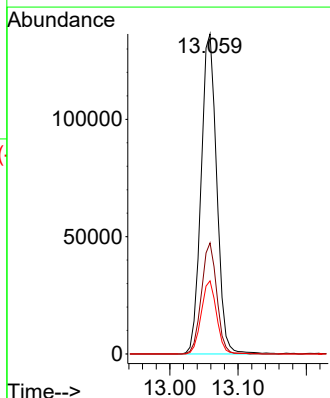
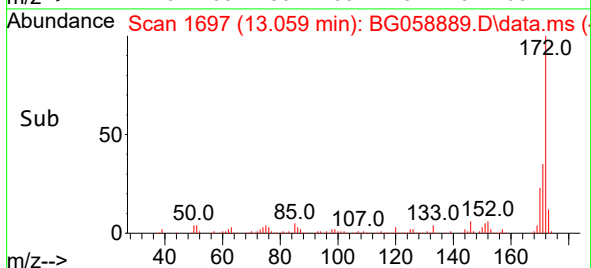
Reviewed By :Yogesh Patel 08/30/2023  
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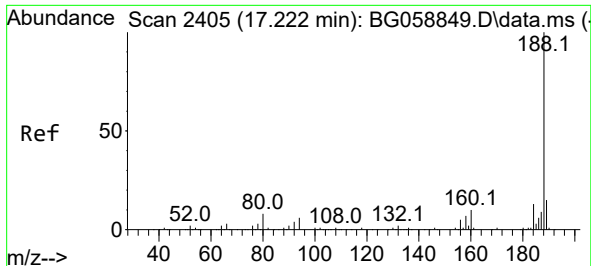


#45  
2-Fluorobiphenyl  
Concen: 57.372 ng  
RT: 13.059 min Scan# 1697  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04



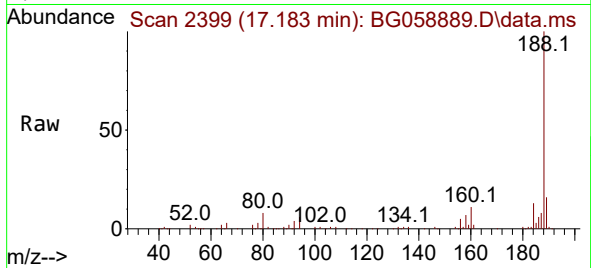
Tgt Ion:172 Resp: 217563  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.1 42.1  
170 22.9 18.6 27.8





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.183 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

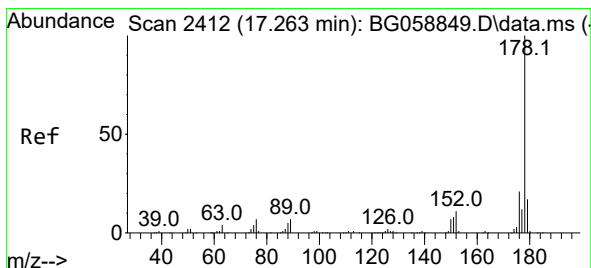
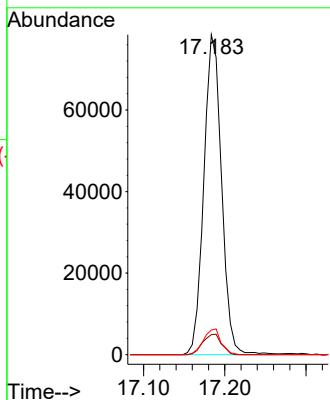
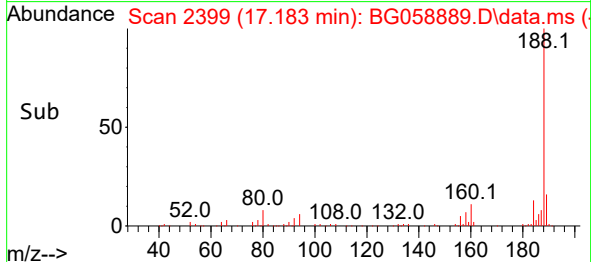
Instrument :  
BNA\_G  
ClientSampleId :  
WC-5



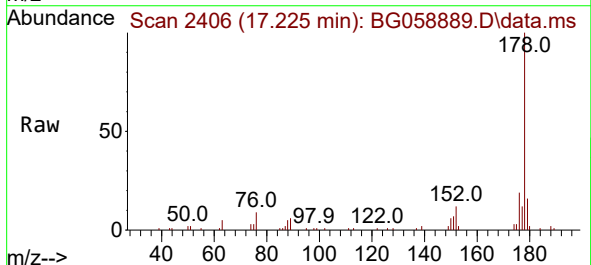
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Ion Ratio Lower Upper  
188 100  
94 6.2 6.1 9.1  
80 7.7 6.9 10.3

Manual Integrations  
APPROVED

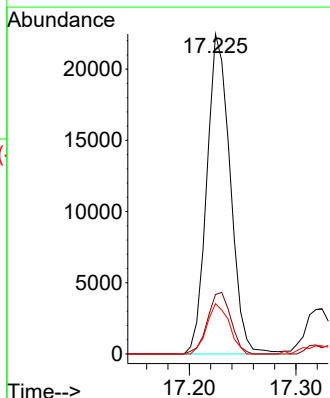
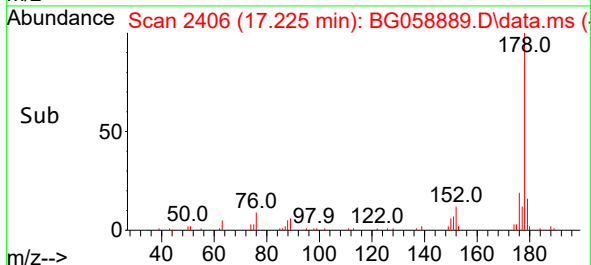
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Supervised By :mohammad ahmed 08/30/2023

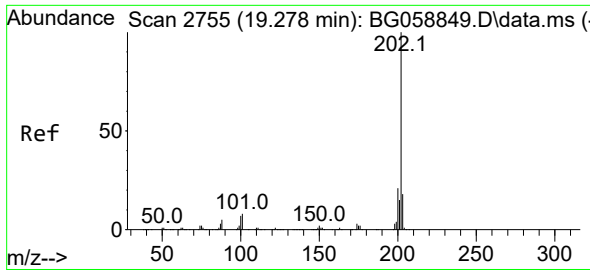


#71  
Phenanthrene  
Concen: 5.990 ng  
RT: 17.225 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04



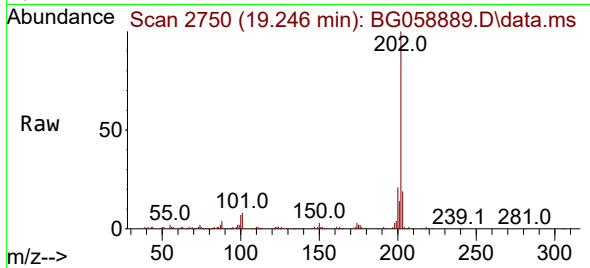
Tgt Ion:178 Resp: 34142  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.5 23.3  
179 15.7 13.0 19.4





#75  
Fluoranthene  
Concen: 12.943 ng  
RT: 19.246 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

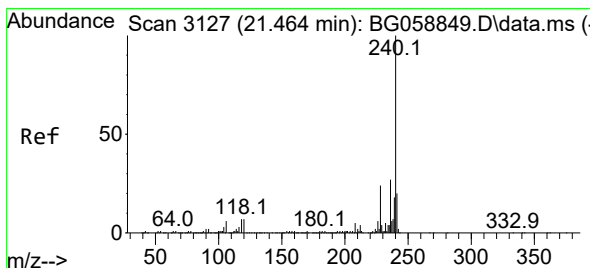
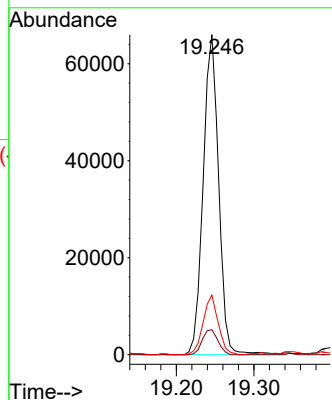
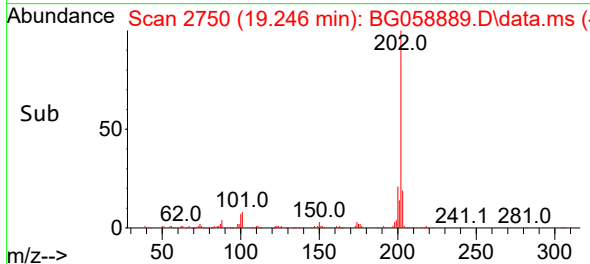
Instrument :  
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ClientSampleId :  
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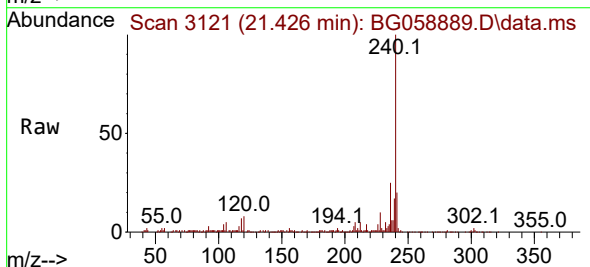
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Ion Ratio Lower Upper  
202 100  
101 7.8 0.0 29.7  
203 18.7 0.0 38.7

Manual Integrations  
APPROVED

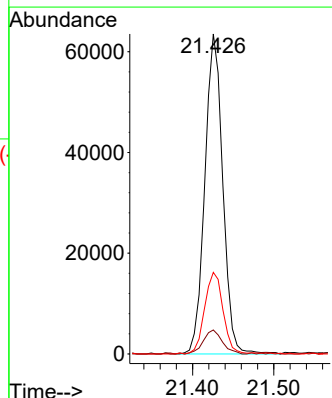
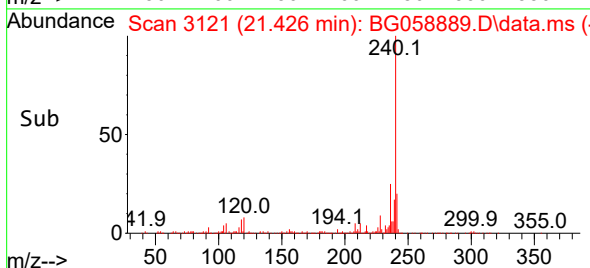
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

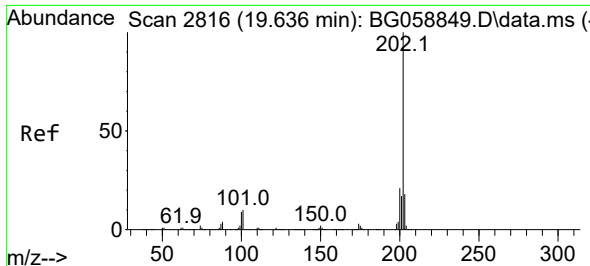


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.426 min Scan# 3121  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04



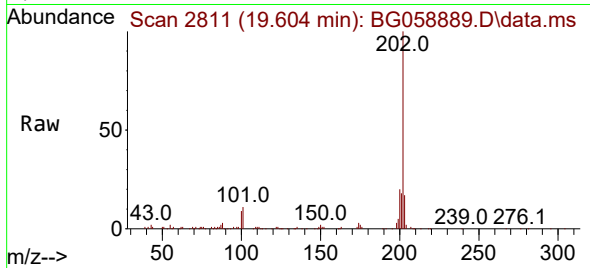
Tgt Ion:240 Resp: 97218  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.2 9.2  
236 25.5 20.5 30.7





#78  
 Pyrene  
 Concen: 11.237 ng  
 RT: 19.604 min Scan# 2811  
 Delta R.T. -0.000 min  
 Lab File: BG058889.D  
 Acq: 29 Aug 2023 16:04

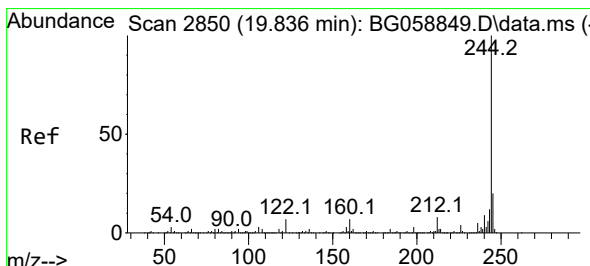
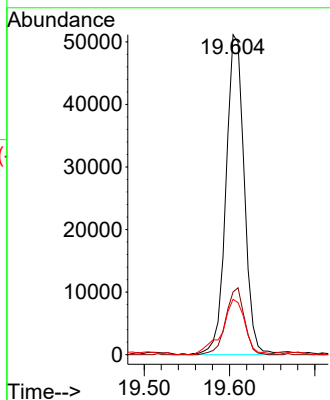
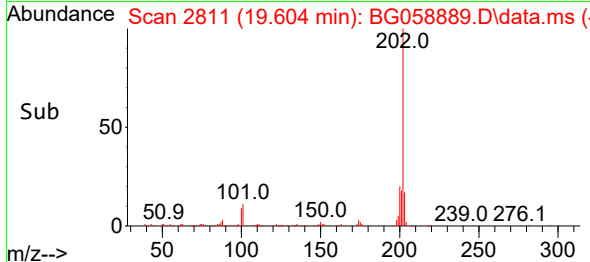
Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-5



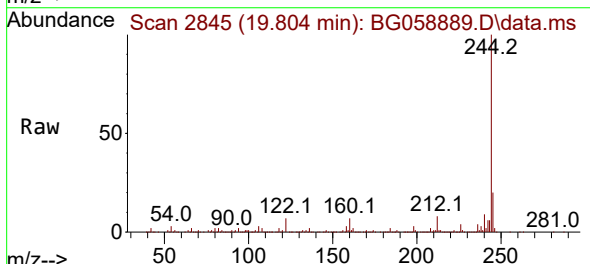
Tgt Ion:202 Resp: 7611  
 Ion Ratio Lower Upper  
 202 100  
 200 19.6 16.7 25.1  
 203 17.3 15.3 22.9

Manual Integrations  
 APPROVED

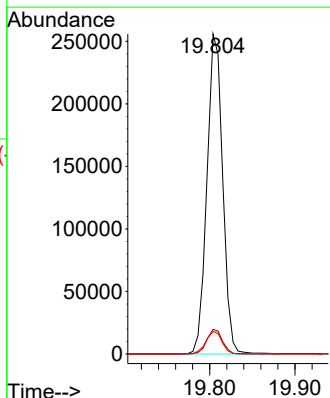
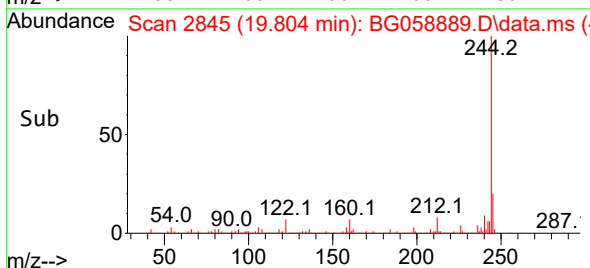
Reviewed By :Yogesh Patel 08/30/2023  
 Supervised By :mohammad ahmed 08/30/2023

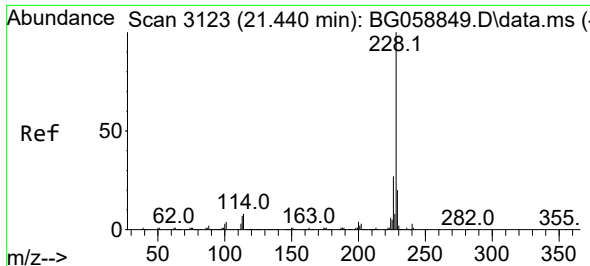


#79  
 Terphenyl-d14  
 Concen: 60.707 ng  
 RT: 19.804 min Scan# 2845  
 Delta R.T. -0.000 min  
 Lab File: BG058889.D  
 Acq: 29 Aug 2023 16:04



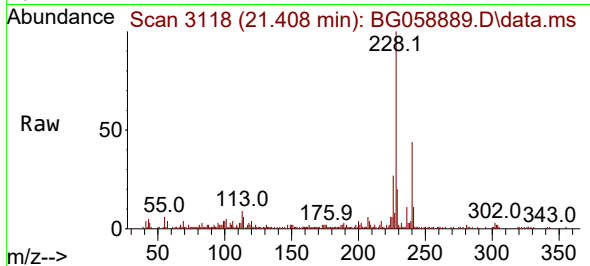
Tgt Ion:244 Resp: 328684  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 6.2 9.2  
 122 7.1 6.3 9.5





#81  
Benzo(a)anthracene  
Concen: 6.176 ng  
RT: 21.408 min Scan# 3118  
Delta R.T. 0.006 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

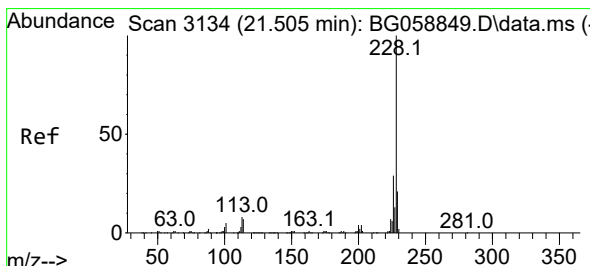
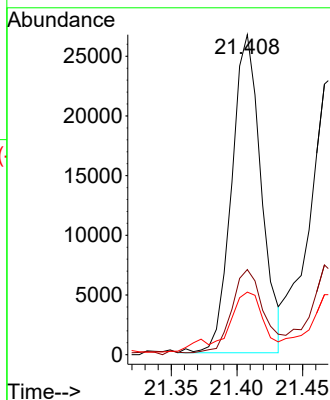
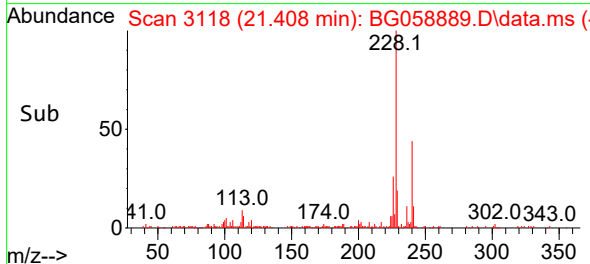
Instrument :  
BNA\_G  
ClientSampleId :  
WC-5



Tgt Ion:228 Resp: 41794  
Ion Ratio Lower Upper  
228 100  
226 26.6 22.6 33.8  
229 19.5 16.8 25.2

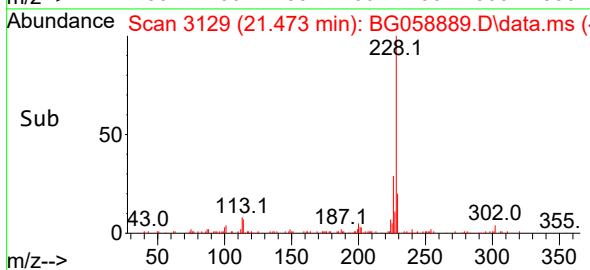
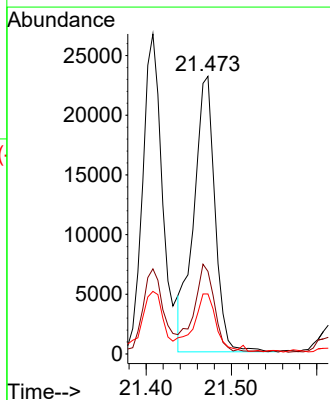
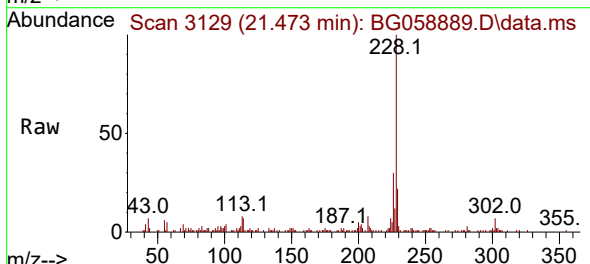
Manual Integrations  
APPROVED

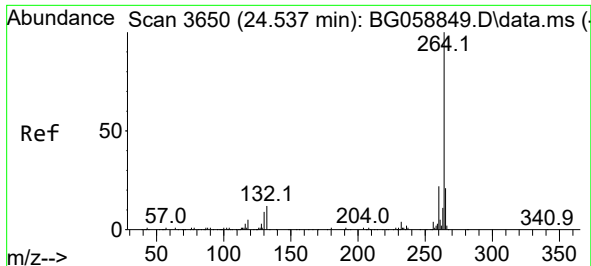
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#83  
Chrysene  
Concen: 6.135 ng  
RT: 21.473 min Scan# 3129  
Delta R.T. 0.006 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

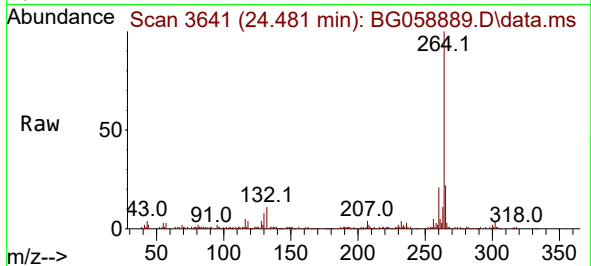
Tgt Ion:228 Resp: 40020  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.4 36.6  
229 21.6 16.3 24.5





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.481 min Scan# 3641  
Delta R.T. 0.011 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

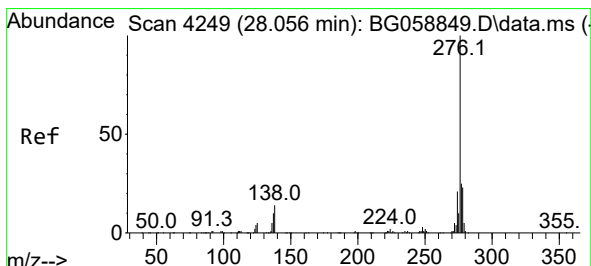
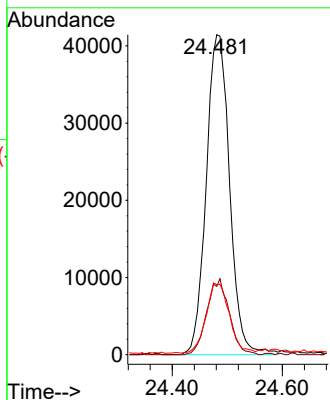
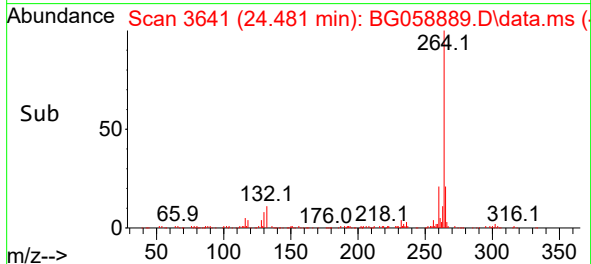
Instrument :  
BNA\_G  
ClientSampleId :  
WC-5



Tgt Ion:264 Resp: 122310  
Ion Ratio Lower Upper  
264 100  
260 21.4 18.2 27.2  
265 21.8 16.4 24.6

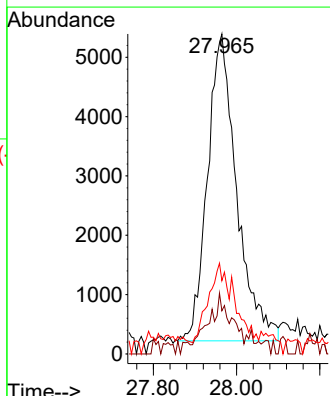
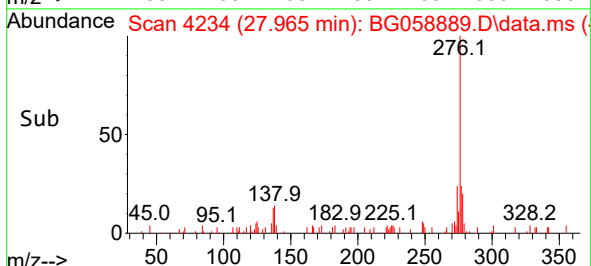
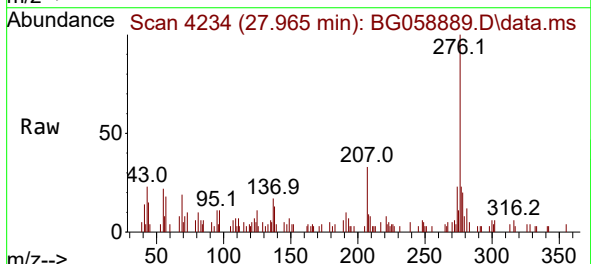
Manual Integrations  
APPROVED

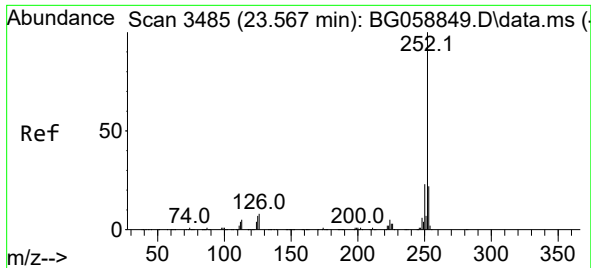
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.050 ng  
RT: 27.965 min Scan# 4234  
Delta R.T. 0.011 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

Tgt Ion:276 Resp: 25241  
Ion Ratio Lower Upper  
276 100  
138 8.7 6.2 9.2  
277 16.0 20.4 30.6#





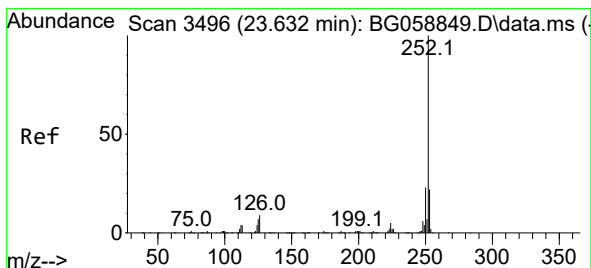
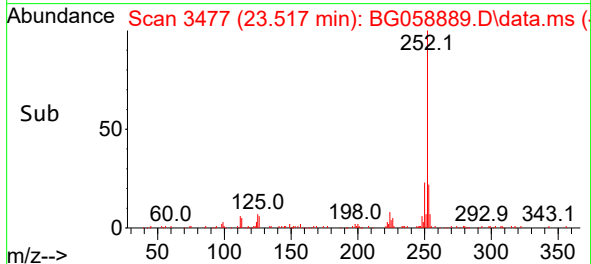
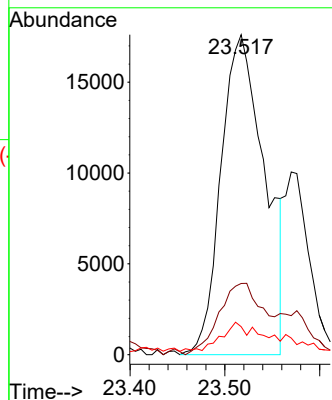
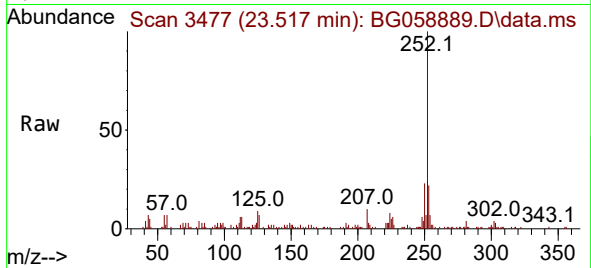
#88  
Benzo(b)fluoranthene  
Concen: 8.291 ng  
RT: 23.517 min Scan# 3485  
Delta R.T. 0.011 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

Instrument :  
BNA\_G  
ClientSampleId :  
WC-5

Tgt Ion:252 Resp: 5626  
Ion Ratio Lower Upper  
252 100  
253 22.2 18.4 27.6  
125 8.7 6.2 9.2

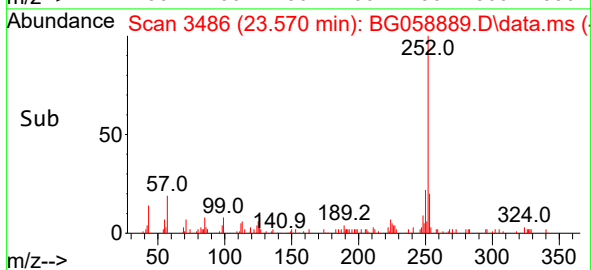
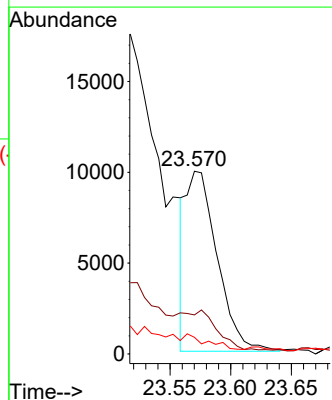
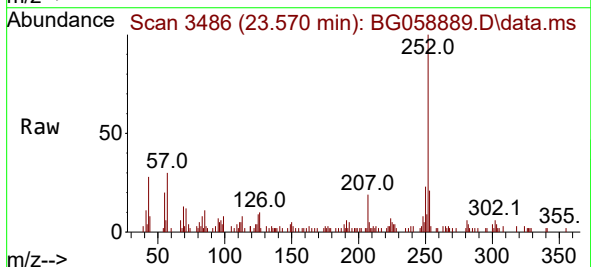
Manual Integrations  
APPROVED

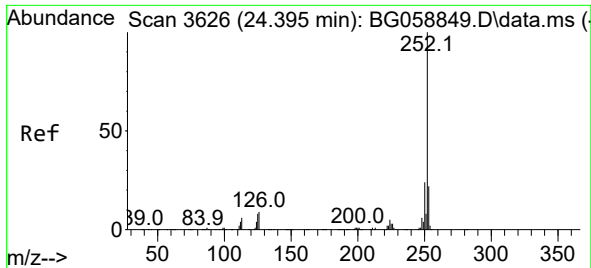
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#89  
Benzo(k)fluoranthene  
Concen: 2.532 ng m  
RT: 23.570 min Scan# 3486  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

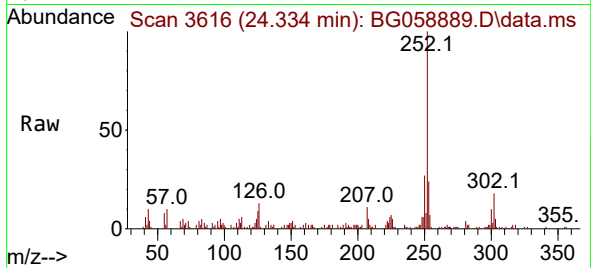
Tgt Ion:252 Resp: 17724  
Ion Ratio Lower Upper  
252 100  
253 21.3 17.6 26.4  
125 9.1 6.3 9.5





#90  
Benzo(a)pyrene  
Concen: 5.748 ng  
RT: 24.334 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04

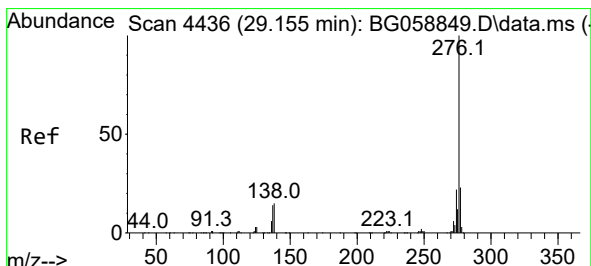
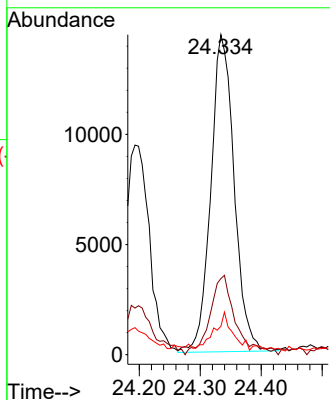
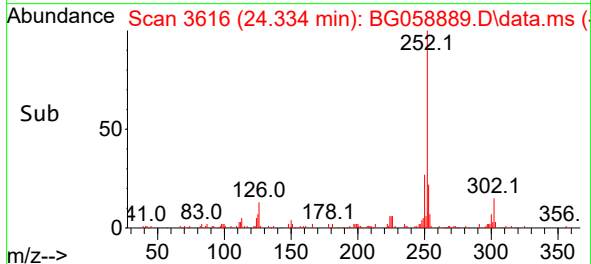
Instrument :  
BNA\_G  
ClientSampleId :  
WC-5



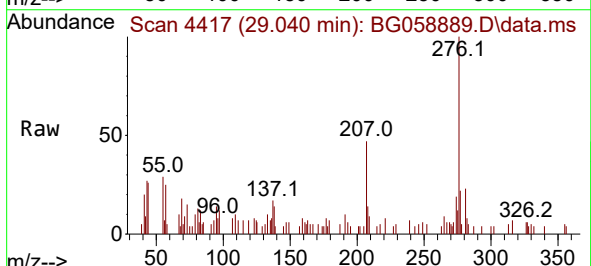
Tgt Ion:252 Resp: 3841  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.5 26.3  
125 8.9 6.8 10.2

Manual Integrations  
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Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#92  
Benzo(g,h,i)perylene  
Concen: 3.286 ng  
RT: 29.040 min Scan# 4417  
Delta R.T. -0.006 min  
Lab File: BG058889.D  
Acq: 29 Aug 2023 16:04



Tgt Ion:276 Resp: 22340  
Ion Ratio Lower Upper  
276 100  
277 22.0 17.8 26.6  
138 14.1 11.1 16.7

