

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG083122\  
 Data File : BG054809.D  
 Acq On : 31 Aug 2022 16:42  
 Operator : CG/JU  
 Sample : N4424-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-219

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/01/2022  
 Supervised By : Jagrut Upadhyay 09/01/2022

Quant Time: Sep 01 05:03:55 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 25 17:50:55 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.147  | 152  | 47121    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.974 | 136  | 203449   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.781 | 164  | 138873   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.531 | 188  | 295419   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.826 | 240  | 270250   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 25.198 | 264  | 289338   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.686  | 112  | 292068   | 107.934 | ng    | 0.00     |
| 7) Phenol-d6                | 7.296  | 99   | 404881   | 109.408 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.323  | 82   | 244707   | 63.142  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.267 | 330  | 178009   | 102.581 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.406 | 172  | 544943   | 58.979  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.128 | 244  | 879520   | 64.484  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 11.026 | 128  | 25345    | 2.322   | ng    | 97       |
| 58) Fluorene                | 15.827 | 166  | 25489    | 2.480   | ng    | 98       |
| 71) Phenanthrene            | 17.572 | 178  | 243232   | 15.456  | ng    | 99       |
| 72) Anthracene              | 17.660 | 178  | 68120    | 4.452   | ng    | 96       |
| 75) Fluoranthene            | 19.581 | 202  | 921563   | 48.138  | ng    | 99       |
| 78) Pyrene                  | 19.940 | 202  | 724717   | 38.458  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.802 | 228  | 217845   | 11.889  | ng    | 99       |
| 83) Chrysene                | 21.873 | 228  | 205201   | 11.712  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 29.070 | 276  | 47933    | 2.182   | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 24.123 | 252  | 165776   | 9.133   | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 24.182 | 252  | 49638m   | 2.717   | ng    |          |
| 90) Benzo(a)pyrene          | 25.034 | 252  | 88519    | 5.708   | ng    | 99       |
| 92) Benzo(g,h,i)perylene    | 30.280 | 276  | 46712    | 2.584   | ng    | 97       |
| -----                       |        |      |          |         |       |          |

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

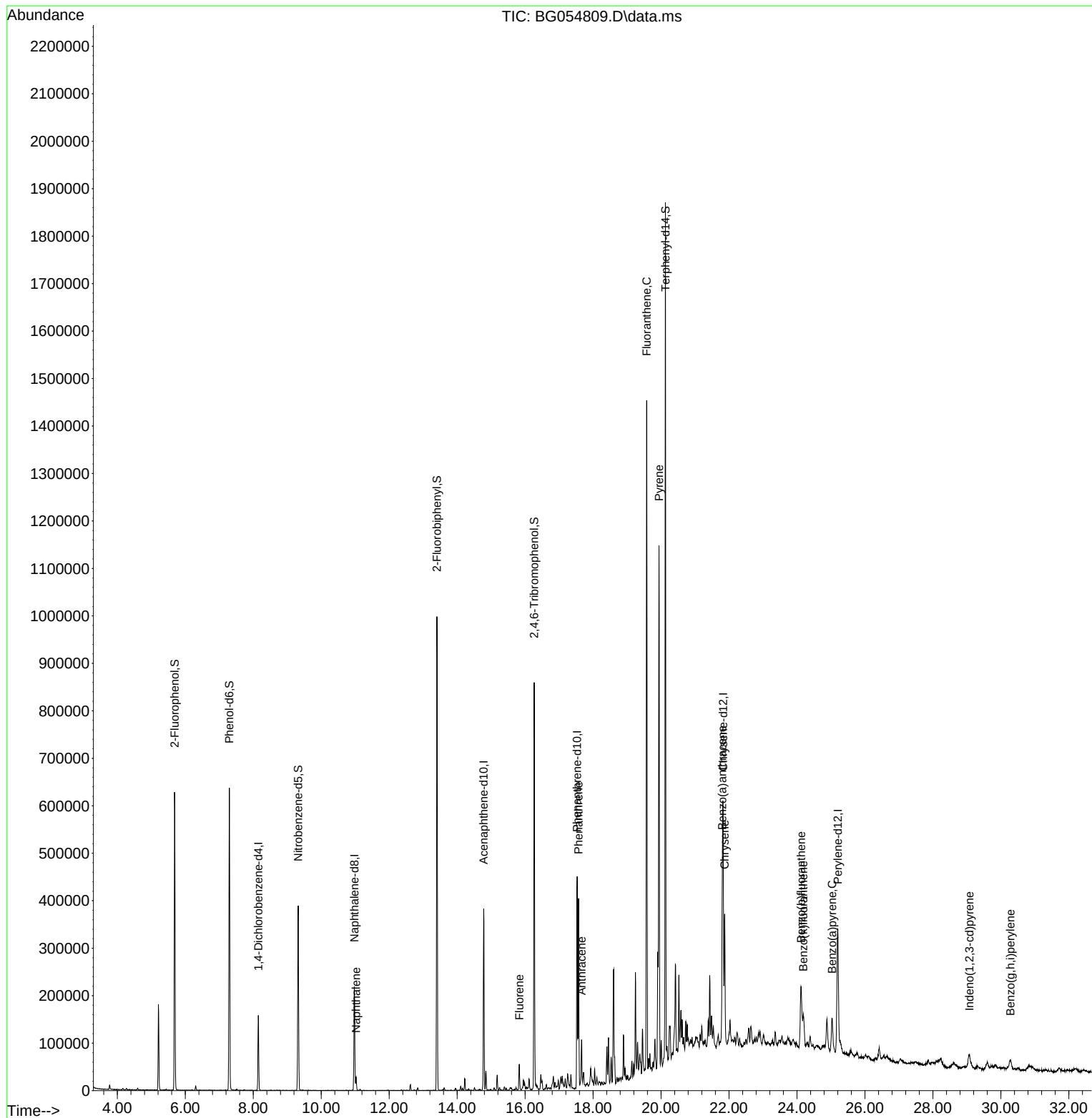
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG083122\  
Data File : BG054809.D  
Acq On : 31 Aug 2022 16:42  
Operator : CG/JU  
Sample : N4424-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

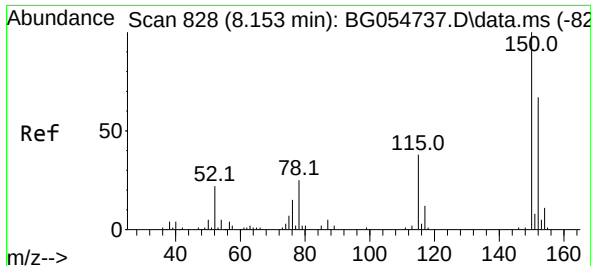
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219

Quant Time: Sep 01 05:03:55 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 25 17:50:55 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

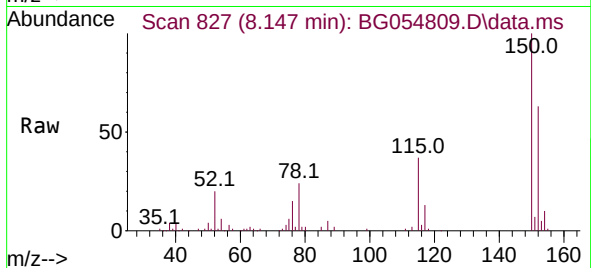
Reviewed By : Christian Giraldo 09/01/2022  
Supervised By : Jagrut Upadhyay 09/01/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.147 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

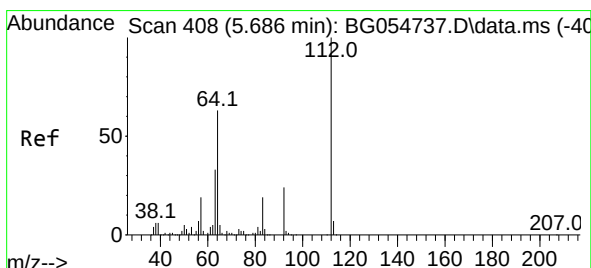
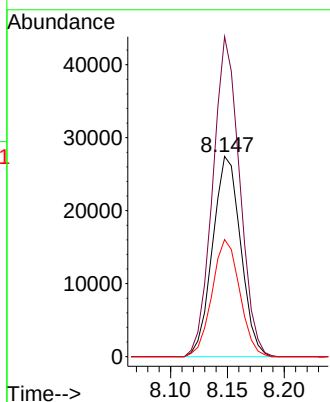
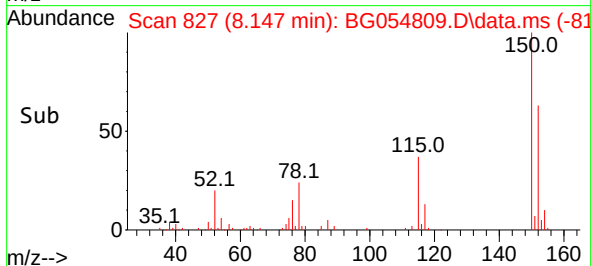
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



Tgt Ion:152 Resp: 4712  
Ion Ratio Lower Upper  
152 100  
150 159.8 125.2 187.8  
115 58.4 47.9 71.9

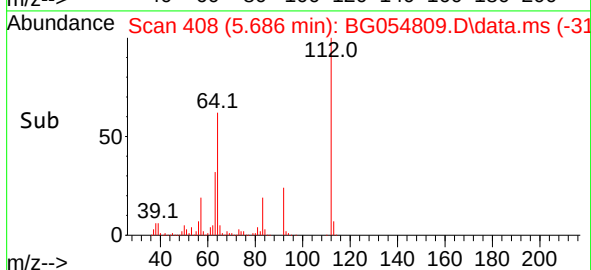
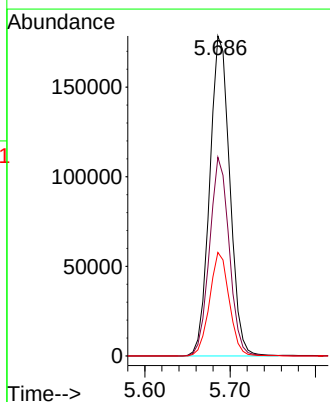
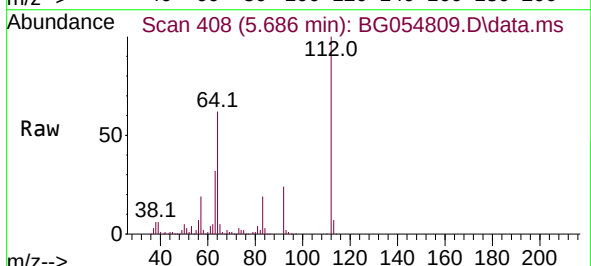
Manual Integrations  
APPROVED

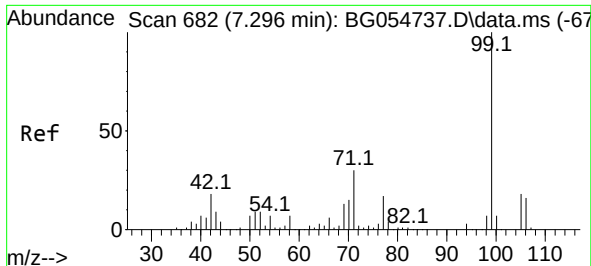
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



#5  
2-Fluorophenol  
Concen: 107.934 ng  
RT: 5.686 min Scan# 408  
Delta R.T. -0.000 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

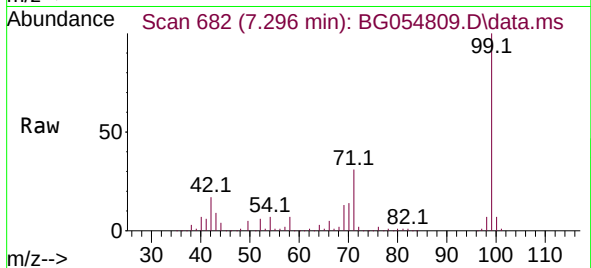
Tgt Ion:112 Resp: 292068  
Ion Ratio Lower Upper  
112 100  
64 62.1 49.3 73.9  
63 32.3 26.3 39.5





#7  
Phenol-d6  
Concen: 109.408 ng  
RT: 7.296 min Scan# 682  
Delta R.T. -0.000 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

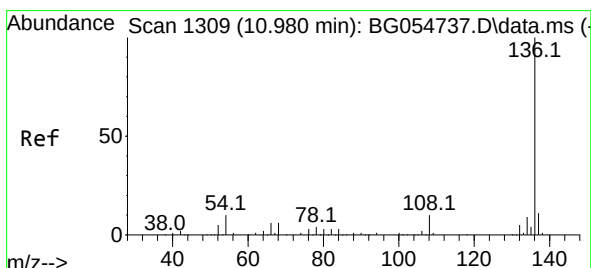
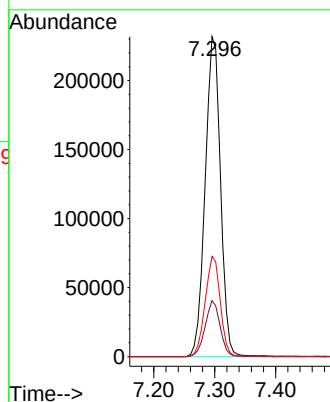
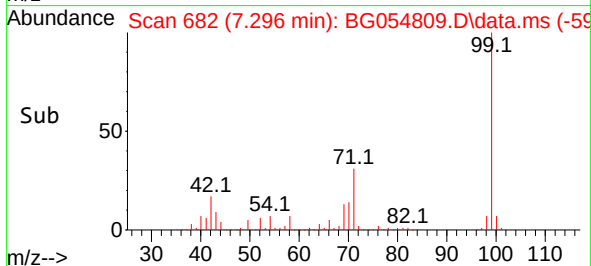
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



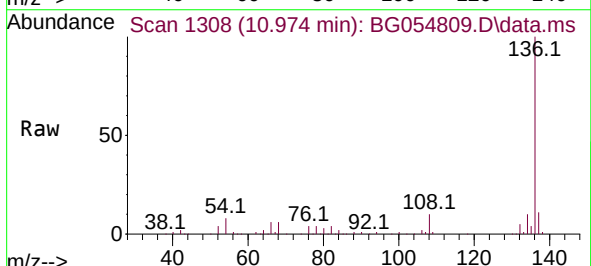
Tgt Ion: 99 Resp: 404881  
Ion Ratio Lower Upper  
99 100  
42 17.5 14.6 22.0  
71 31.3 24.6 37.0

Manual Integrations  
APPROVED

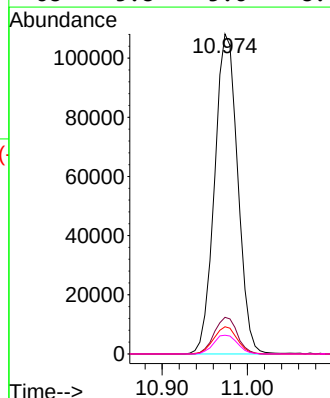
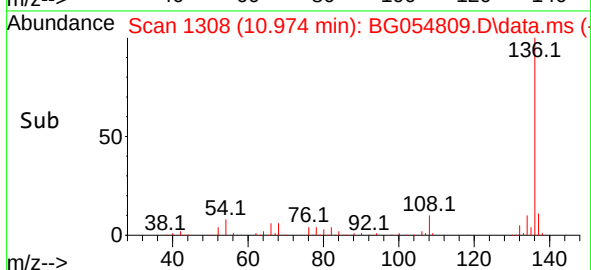
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

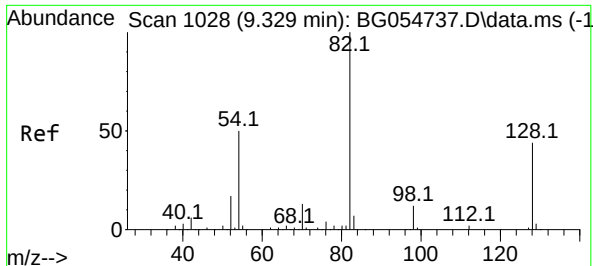


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.974 min Scan# 1308  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42



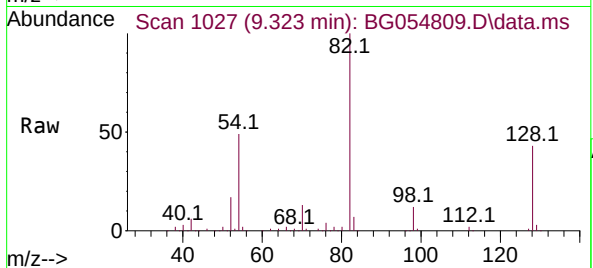
Tgt Ion:136 Resp: 203449  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.2 13.8  
54 8.5 7.7 11.5  
68 5.8 5.6 8.4





#23  
Nitrobenzene-d5  
Concen: 63.142 ng  
RT: 9.323 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

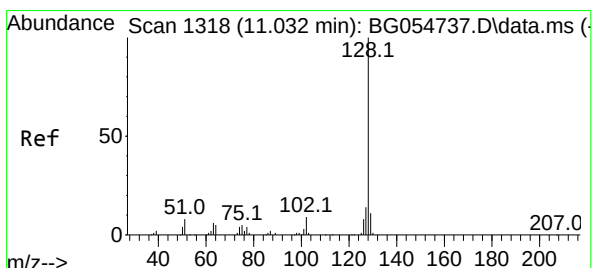
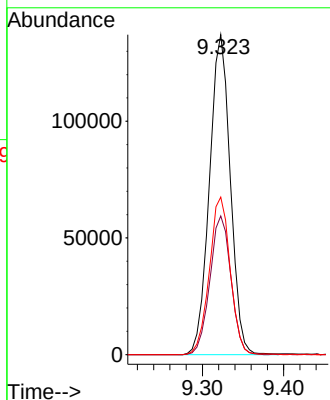
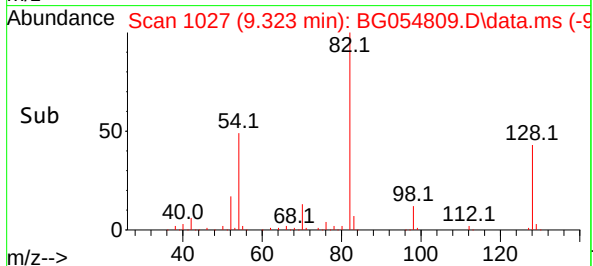
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



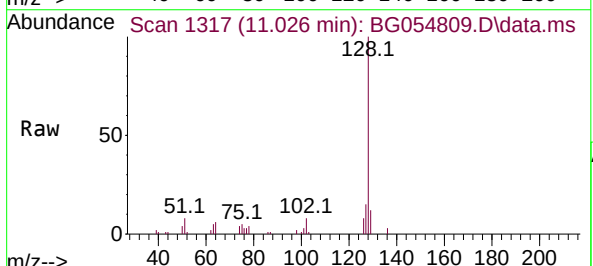
Tgt Ion: 82 Resp: 24470  
Ion Ratio Lower Upper  
82 100  
128 43.3 32.2 48.2  
54 49.2 41.4 62.0

Manual Integrations  
APPROVED

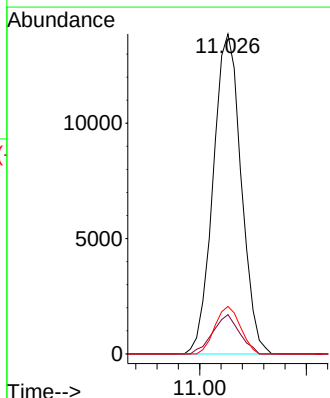
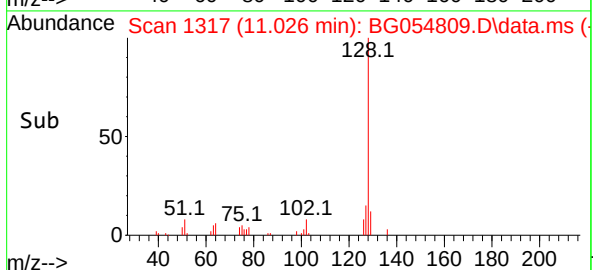
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

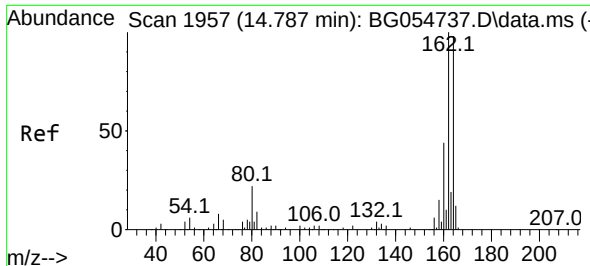


#31  
Naphthalene  
Concen: 2.322 ng  
RT: 11.026 min Scan# 1317  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42



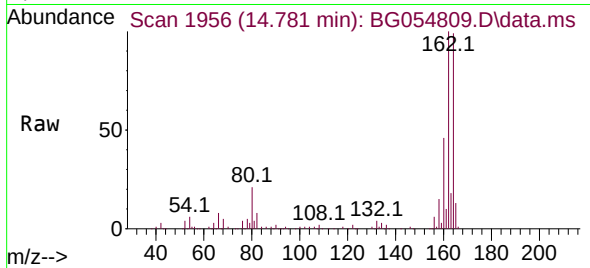
Tgt Ion:128 Resp: 25345  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.0 13.4  
127 14.8 11.1 16.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.781 min Scan# 1956  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

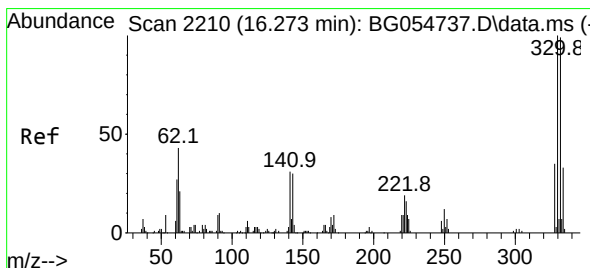
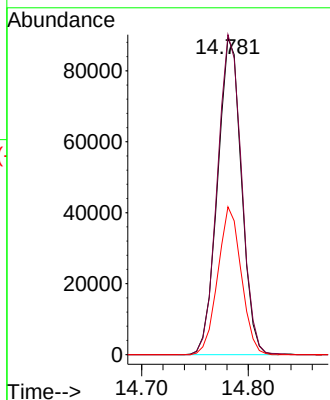
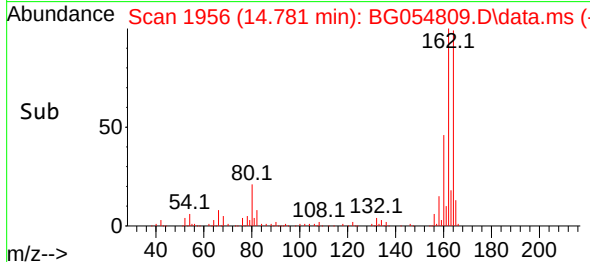
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



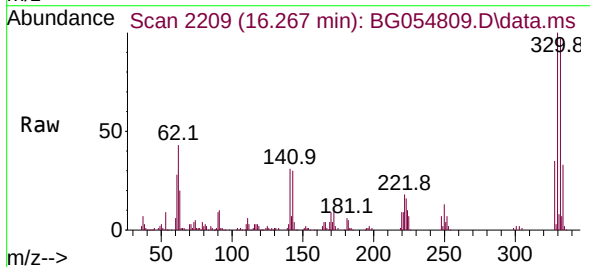
Tgt Ion:164 Resp: 138873  
Ion Ratio Lower Upper  
164 100  
162 101.0 83.0 124.4  
160 46.7 38.0 57.0

Manual Integrations  
APPROVED

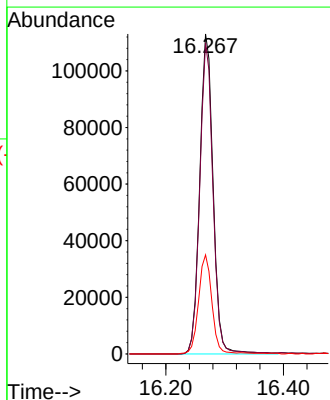
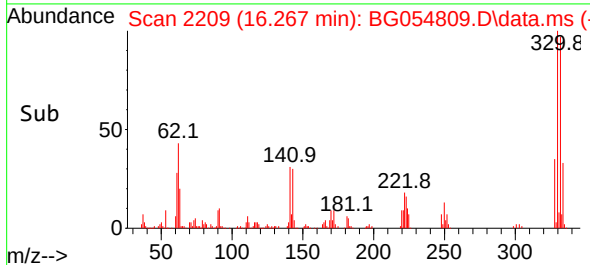
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

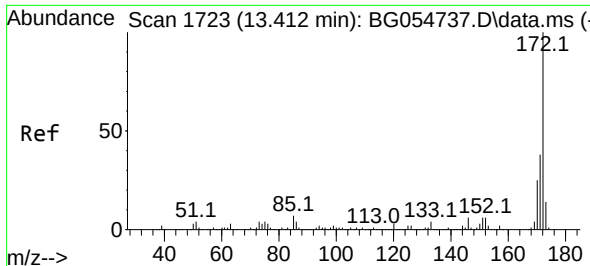


#42  
2,4,6-Tribromophenol  
Concen: 102.581 ng  
RT: 16.267 min Scan# 2209  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42



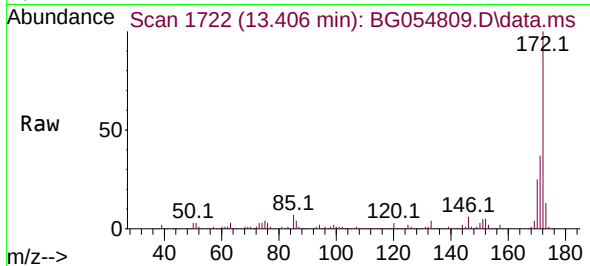
Tgt Ion:330 Resp: 178009  
Ion Ratio Lower Upper  
330 100  
332 96.2 79.8 119.6  
141 30.7 26.8 40.2





#45  
2-Fluorobiphenyl  
Concen: 58.979 ng  
RT: 13.406 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

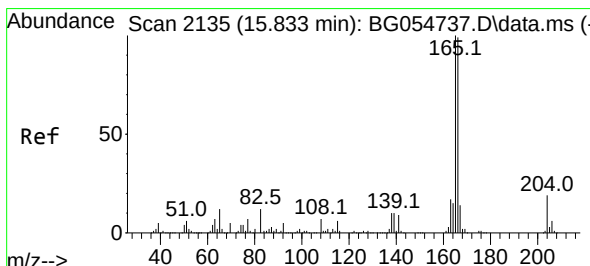
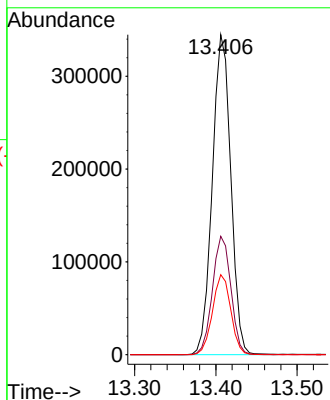
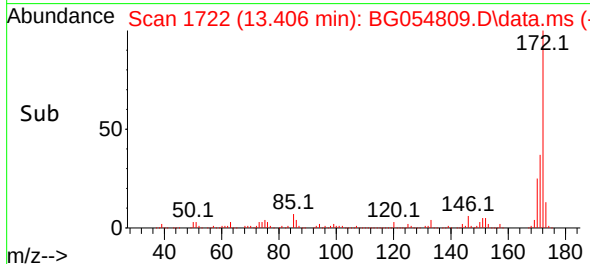
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



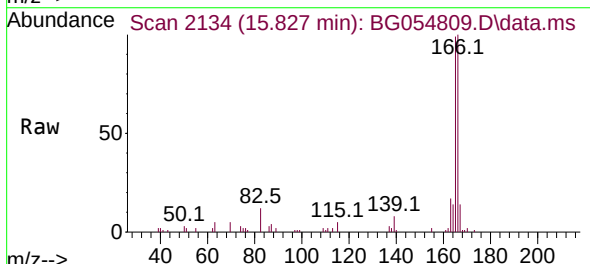
Tgt Ion:172 Resp: 544943  
Ion Ratio Lower Upper  
172 100  
171 37.0 31.2 46.8  
170 25.0 20.6 30.8

Manual Integrations  
APPROVED

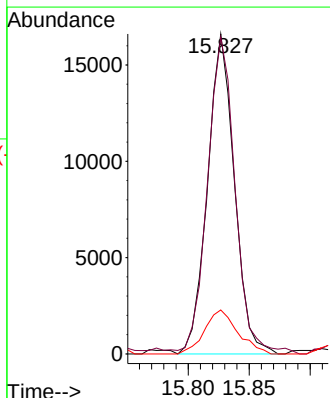
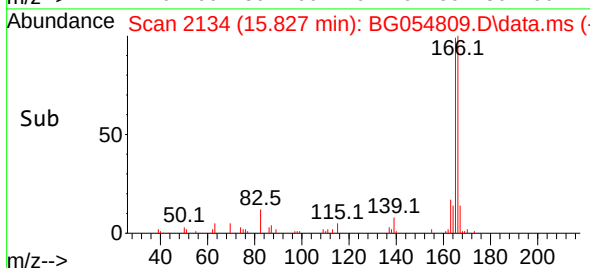
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

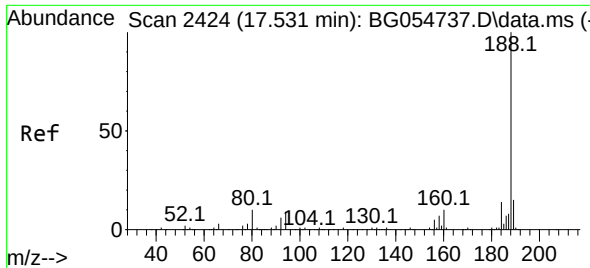


#58  
Fluorene  
Concen: 2.480 ng  
RT: 15.827 min Scan# 2134  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42



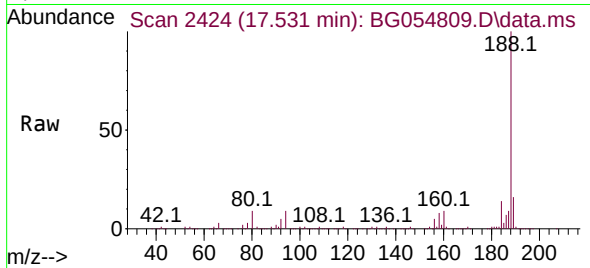
Tgt Ion:166 Resp: 25489  
Ion Ratio Lower Upper  
166 100  
165 99.0 80.8 121.2  
167 13.7 11.4 17.0





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.531 min Scan# 2424  
Delta R.T. -0.000 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

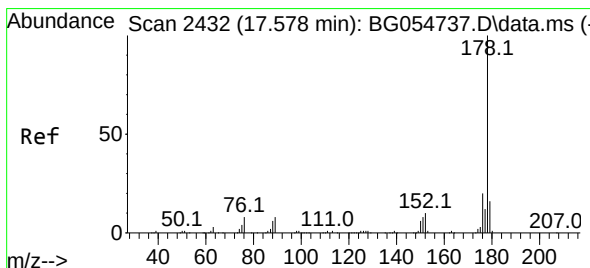
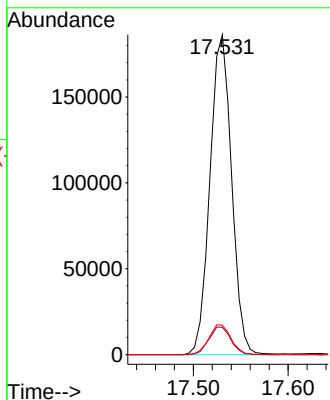
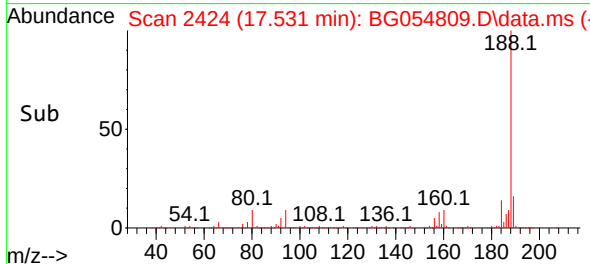
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



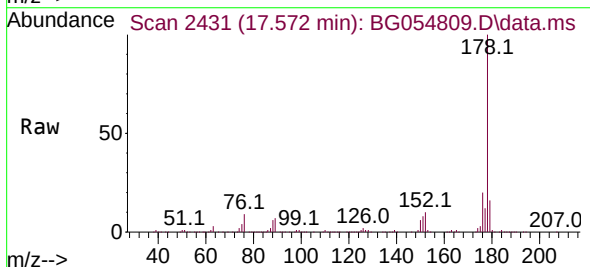
Tgt Ion:188 Resp: 295419  
Ion Ratio Lower Upper  
188 100  
94 8.5 7.0 10.4  
80 9.2 7.9 11.9

Manual Integrations  
APPROVED

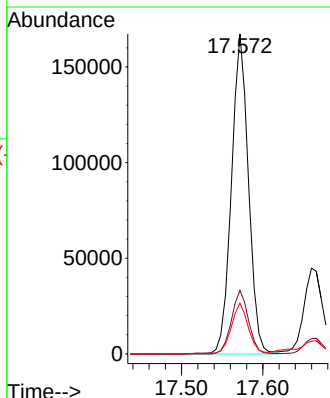
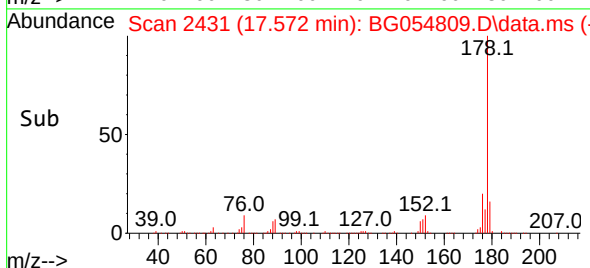
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



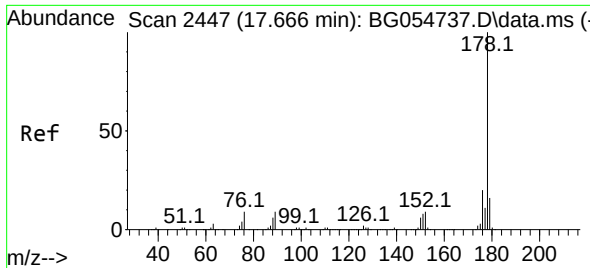
#71  
Phenanthrene  
Concen: 15.456 ng  
RT: 17.572 min Scan# 2431  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42



Tgt Ion:178 Resp: 243232  
Ion Ratio Lower Upper  
178 100  
176 19.8 16.6 25.0  
179 15.9 12.8 19.2

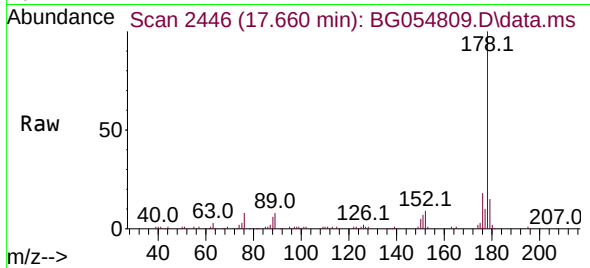






#72  
 Anthracene  
 Concen: 4.452 ng  
 RT: 17.660 min Scan# 2447  
 Delta R.T. -0.006 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42

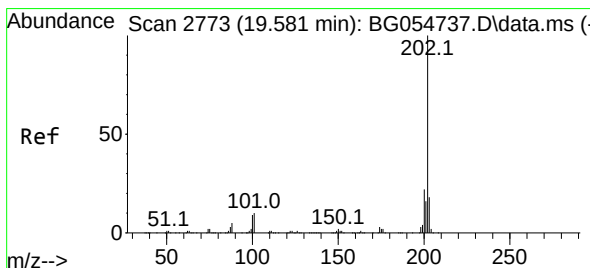
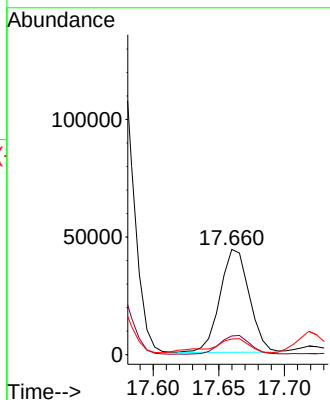
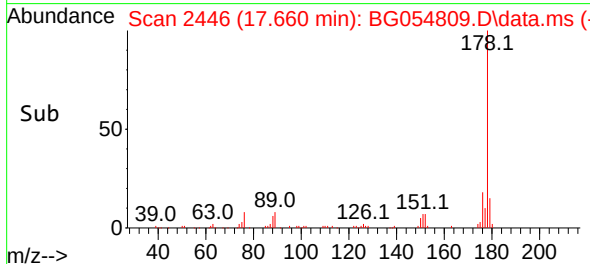
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-219



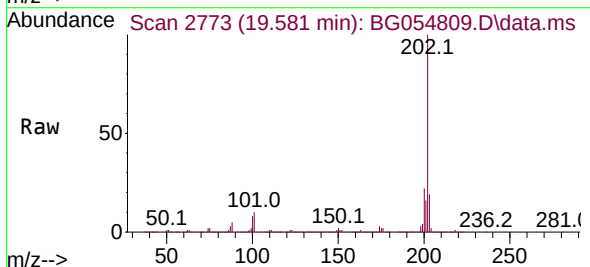
Tgt Ion:178 Resp: 68120  
 Ion Ratio Lower Upper  
 178 100  
 176 17.7 16.2 24.4  
 179 14.8 12.9 19.3

Manual Integrations  
 APPROVED

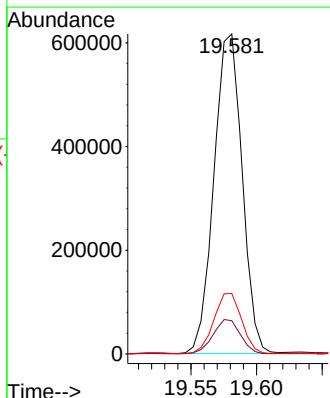
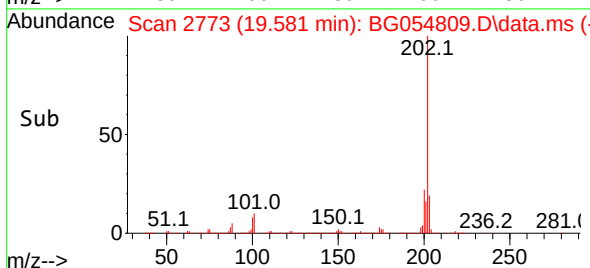
Reviewed By :Christian Giraldo 09/01/2022  
 Supervised By :Jagrut Upadhyay 09/01/2022

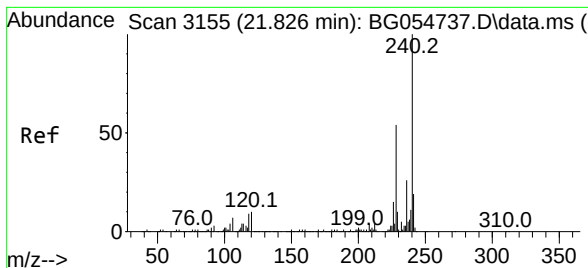


#75  
 Fluoranthene  
 Concen: 48.138 ng  
 RT: 19.581 min Scan# 2773  
 Delta R.T. -0.000 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42



Tgt Ion:202 Resp: 921563  
 Ion Ratio Lower Upper  
 202 100  
 101 10.4 0.0 31.4  
 203 18.9 0.0 38.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.826 min Scan# 3155

Delta R.T. -0.000 min

Lab File: BG054809.D

Acq: 31 Aug 2022 16:42

Instrument :

BNA\_G

ClientSampleId :

VNJ-219

Tgt Ion:240 Resp: 270250

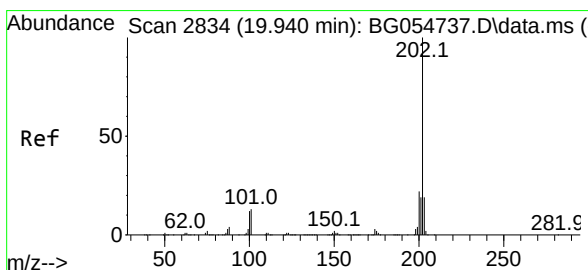
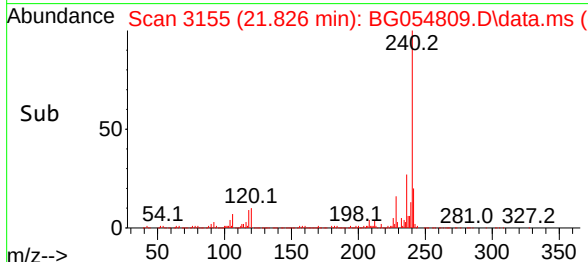
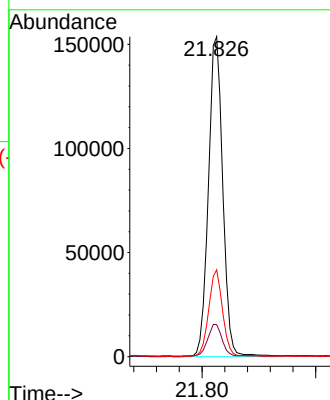
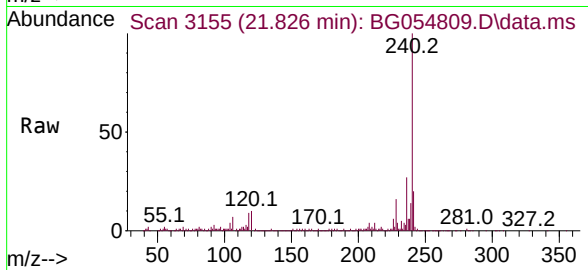
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 10.0  | 8.2   | 12.4  |
| 236 | 27.1  | 21.2  | 31.8  |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/01/2022

Supervised By :Jagrut Upadhyay 09/01/2022



#78

Pyrene

Concen: 38.458 ng

RT: 19.940 min Scan# 2834

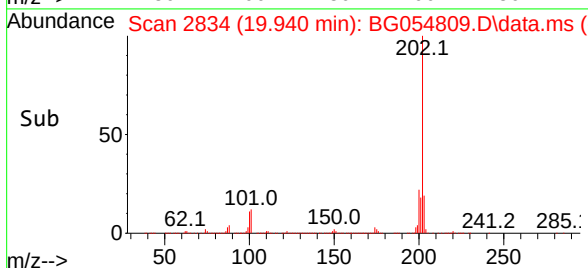
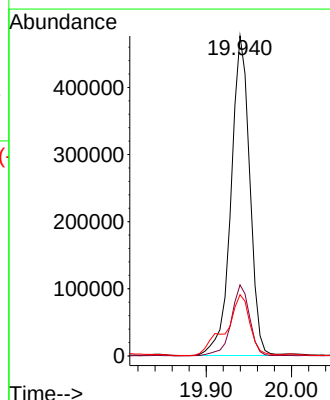
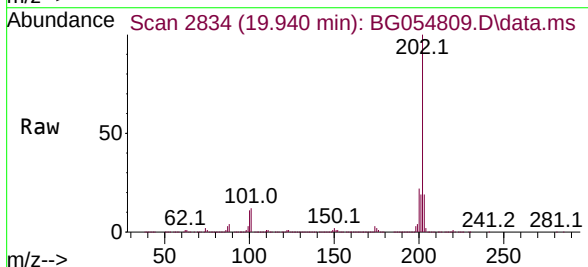
Delta R.T. -0.000 min

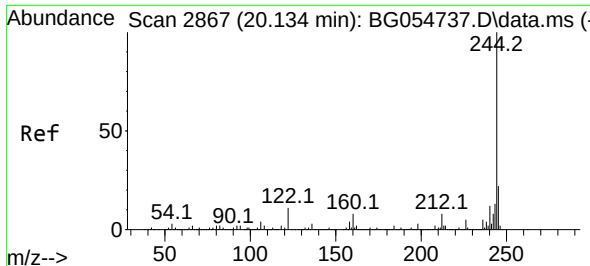
Lab File: BG054809.D

Acq: 31 Aug 2022 16:42

Tgt Ion:202 Resp: 724717

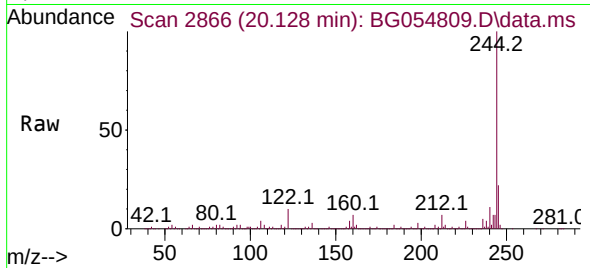
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 22.2  | 17.8  | 26.6  |
| 203 | 19.1  | 14.6  | 21.8  |





#79  
 Terphenyl-d14  
 Concen: 64.484 ng  
 RT: 20.128 min Scan# 2866  
 Delta R.T. -0.006 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42

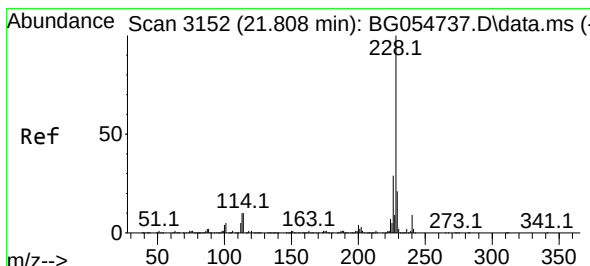
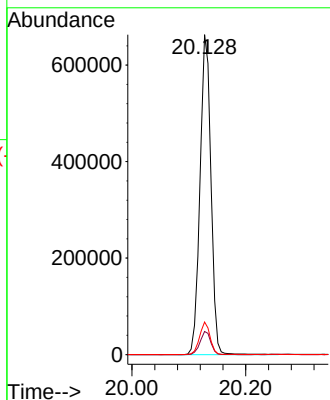
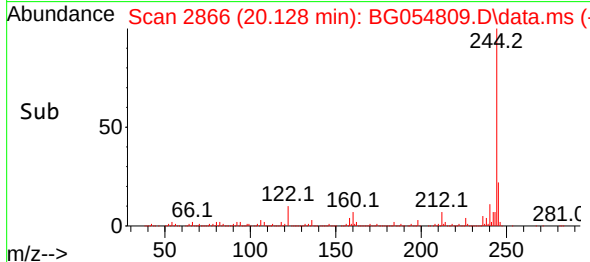
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-219



Tgt Ion:244 Resp: 879520  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.2 9.2  
 122 10.2 9.0 13.6

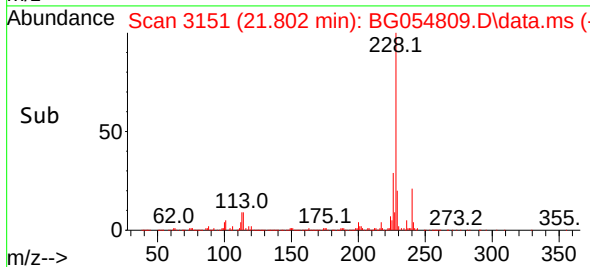
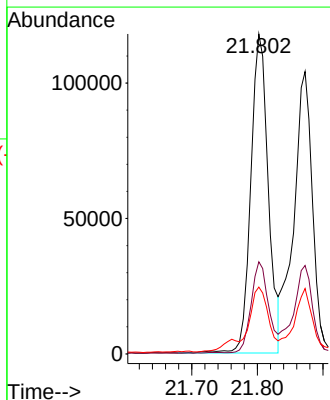
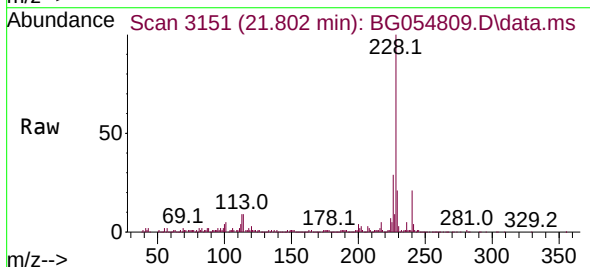
Manual Integrations  
 APPROVED

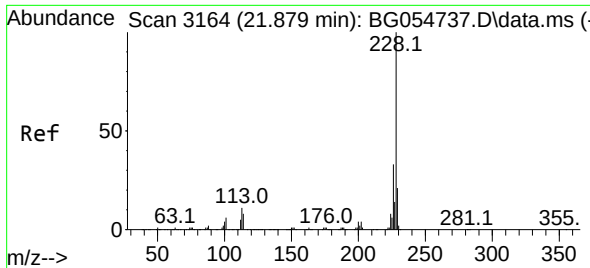
Reviewed By :Christian Giraldo 09/01/2022  
 Supervised By :Jagrut Upadhyay 09/01/2022



#81  
 Benzo(a)anthracene  
 Concen: 11.889 ng  
 RT: 21.802 min Scan# 3151  
 Delta R.T. -0.006 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42

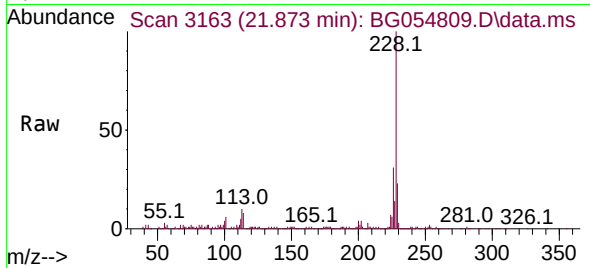
Tgt Ion:228 Resp: 217845  
 Ion Ratio Lower Upper  
 228 100  
 226 28.8 23.4 35.2  
 229 20.9 16.5 24.7





#83  
Chrysene  
Concen: 11.712 ng  
RT: 21.873 min Scan# 3163  
Delta R.T. -0.006 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

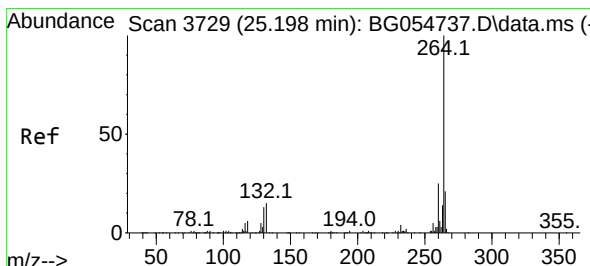
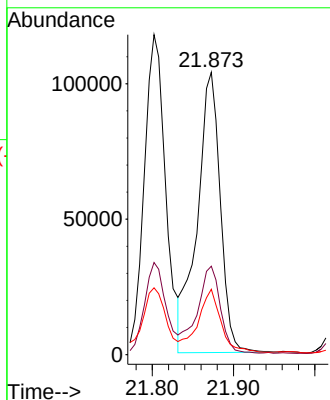
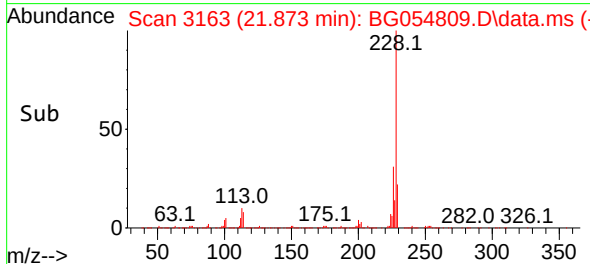
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-219



Tgt Ion:228 Resp: 205201  
Ion Ratio Lower Upper  
228 100  
226 31.3 25.5 38.3  
229 23.1 16.8 25.2

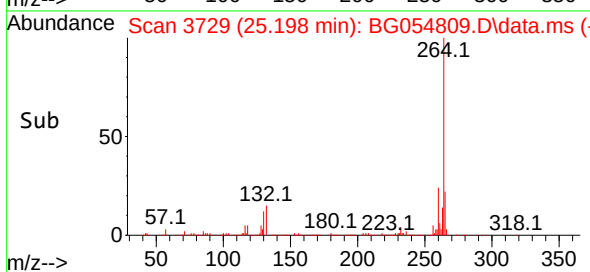
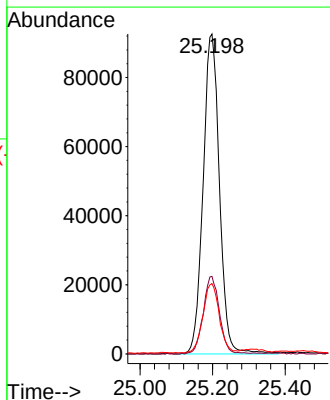
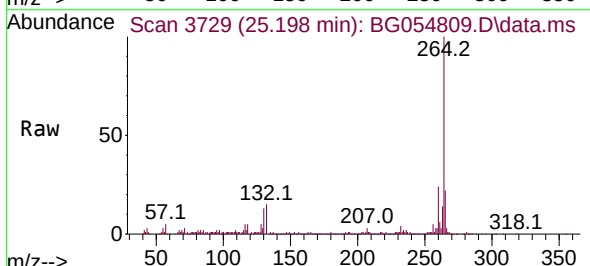
Manual Integrations  
APPROVED

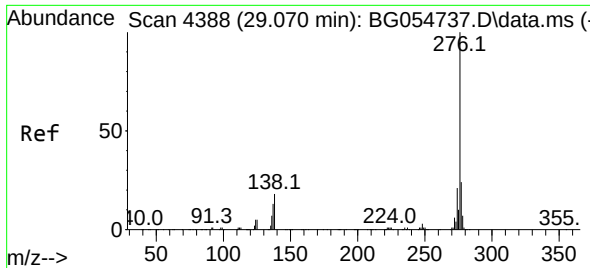
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.198 min Scan# 3729  
Delta R.T. -0.000 min  
Lab File: BG054809.D  
Acq: 31 Aug 2022 16:42

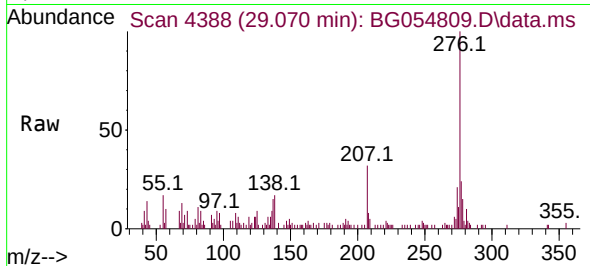
Tgt Ion:264 Resp: 289338  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.9 29.9  
265 22.0 16.9 25.3





#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.182 ng  
 RT: 29.070 min Scan# 4388  
 Delta R.T. -0.000 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42

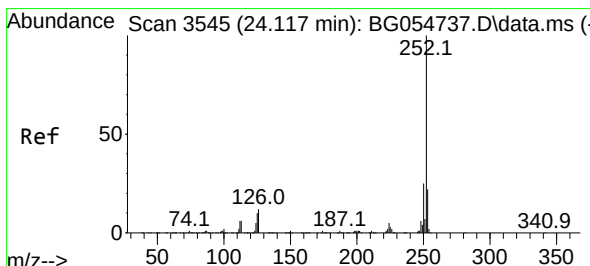
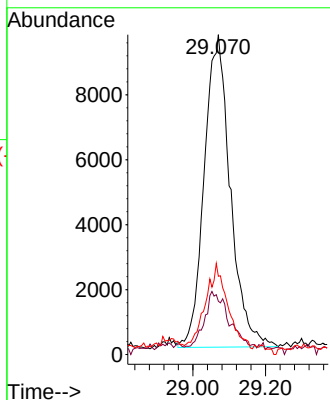
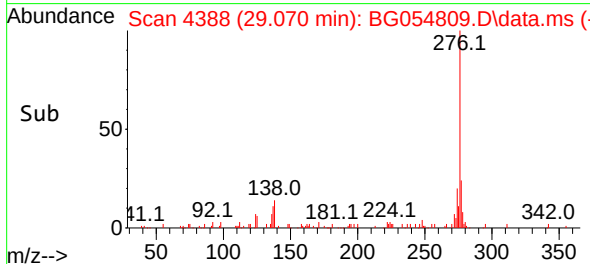
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-219



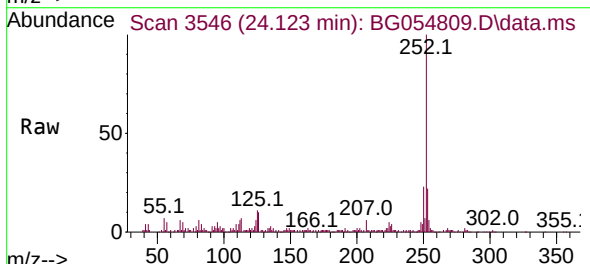
Tgt Ion: 276 Resp: 47933  
 Ion Ratio Lower Upper  
 276 100  
 138 18.2 12.0 18.0  
 277 23.5 20.2 30.4

Manual Integrations  
 APPROVED

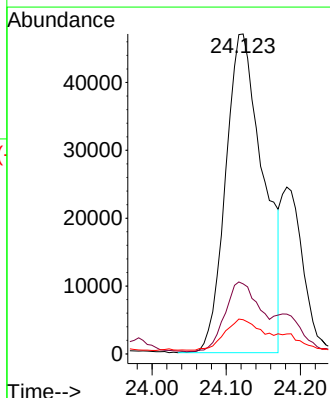
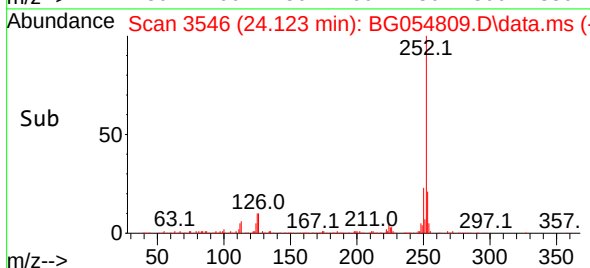
Reviewed By : Christian Giraldo 09/01/2022  
 Supervised By : Jagrut Upadhyay 09/01/2022

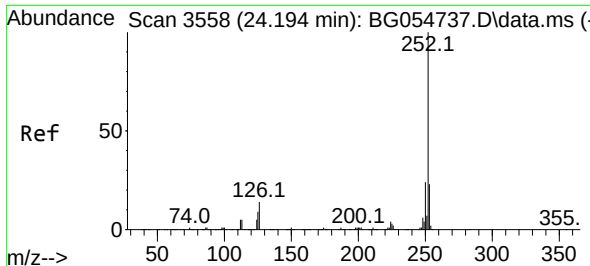


#88  
 Benzo(b)fluoranthene  
 Concen: 9.133 ng  
 RT: 24.123 min Scan# 3546  
 Delta R.T. 0.006 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42



Tgt Ion: 252 Resp: 165776  
 Ion Ratio Lower Upper  
 252 100  
 253 21.9 18.0 27.0  
 125 10.7 8.1 12.1





#89

Benzo(k)fluoranthene

Concen: 2.717 ng m

RT: 24.182 min Scan# 3558

Delta R.T. -0.012 min

Lab File: BG054809.D

Acq: 31 Aug 2022 16:42

Instrument :

BNA\_G

ClientSampleId :

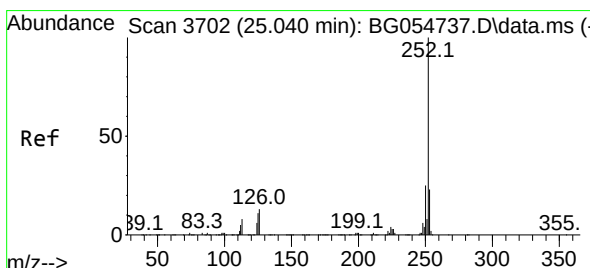
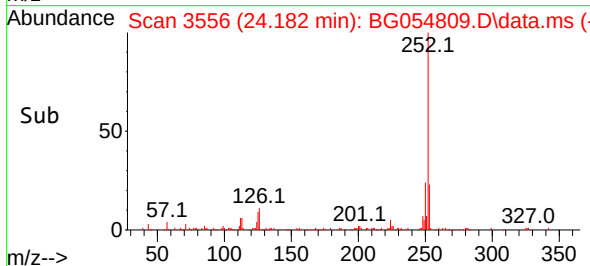
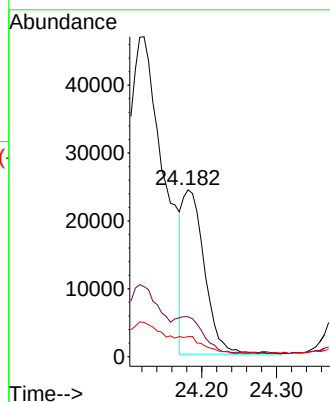
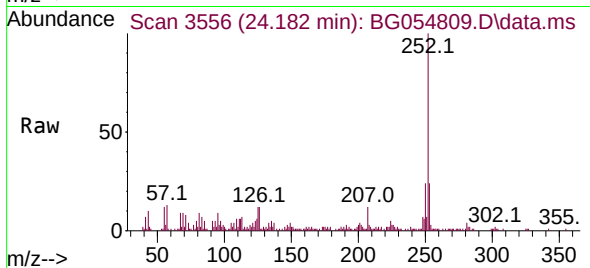
VNJ-219

Tgt Ion:252 Resp: 49638  
 Ion Ratio Lower Upper  
 252 100  
 253 23.9 17.8 26.8  
 125 11.9 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/01/2022  
 Supervised By :Jagrut Upadhyay 09/01/2022



#90

Benzo(a)pyrene

Concen: 5.708 ng

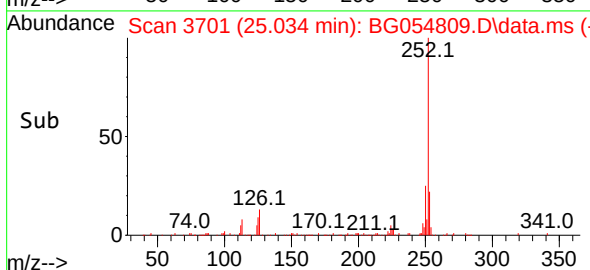
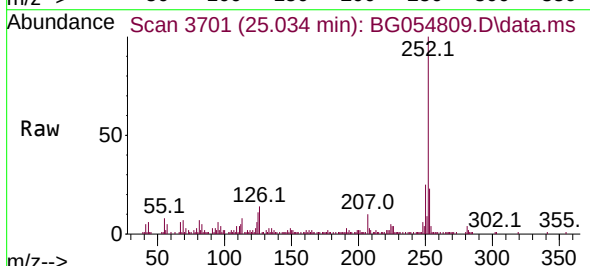
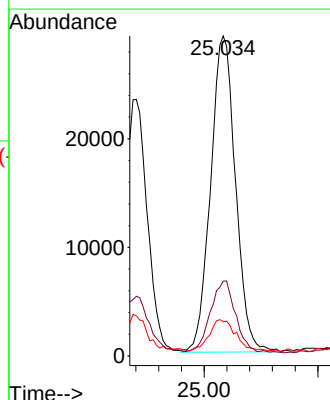
RT: 25.034 min Scan# 3701

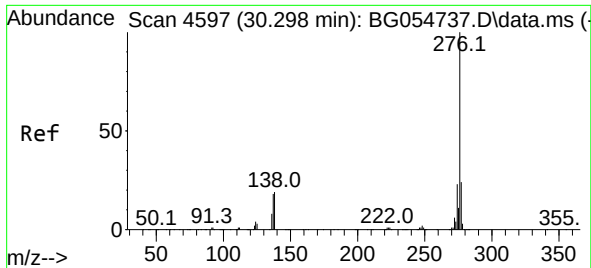
Delta R.T. -0.006 min

Lab File: BG054809.D

Acq: 31 Aug 2022 16:42

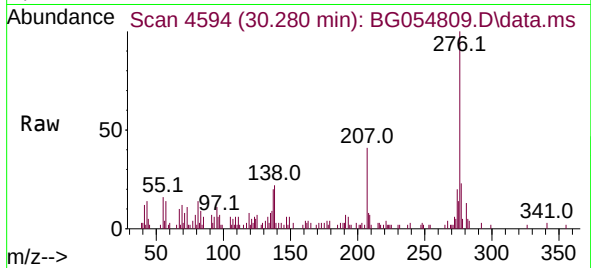
Tgt Ion:252 Resp: 88519  
 Ion Ratio Lower Upper  
 252 100  
 253 23.4 18.3 27.5  
 125 10.7 8.8 13.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.584 ng  
 RT: 30.280 min Scan# 4594  
 Delta R.T. -0.018 min  
 Lab File: BG054809.D  
 Acq: 31 Aug 2022 16:42

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-219



Tgt Ion: 276 Resp: 46712  
 Ion Ratio Lower Upper  
 276 100  
 277 23.2 19.4 29.0  
 138 22.2 16.6 25.0

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/01/2022  
 Supervised By : Jagrut Upadhyay 09/01/2022

