

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032323\  
 Data File : BM039131.D  
 Acq On : 24 Mar 2023 00:29  
 Operator : CG/JU  
 Sample : 01932-03  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CE-86B-031423

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/24/2023  
 Supervised By : Jagrut Upadhyay 03/24/2023

Quant Time: Mar 24 04:36:12 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM030823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 22 03:36:20 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.957  | 152  | 234259   | 20.000  | ng    | -0.01    |
| 21) Naphthalene-d8            | 10.775 | 136  | 935921   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.604 | 164  | 528037   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.345 | 188  | 1096715  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.521 | 240  | 993185   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 23.956 | 264  | 1103442  | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 1499969  | 97.281  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.122  | 99   | 1888390  | 94.289  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.128  | 82   | 1161922  | 60.982  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.092 | 330  | 635757   | 104.077 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.228 | 172  | 2362653  | 58.248  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.962 | 244  | 3329961  | 61.301  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene              | 17.386 | 178  | 305106   | 4.740   | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.310 | 149  | 21394    | 2.087   | ng    | 96       |
| 75) Fluoranthene              | 19.404 | 202  | 760008   | 11.183  | ng    | 99       |
| 78) Pyrene                    | 19.762 | 202  | 741631   | 9.942   | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.509 | 228  | 441546   | 6.173   | ng    | 95       |
| 83) Chrysene                  | 21.562 | 228  | 388233   | 5.581   | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.433 | 149  | 176057m  | 6.125   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene    | 26.486 | 276  | 269958   | 3.215   | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 23.215 | 252  | 551768   | 7.827   | ng    | # 88     |
| 89) Benzo(k)fluoranthene      | 23.256 | 252  | 162083m  | 2.209   | ng    |          |
| 90) Benzo(a)pyrene            | 23.850 | 252  | 377831   | 5.569   | ng    | # 93     |
| 92) Benzo(g,h,i)perylene      | 27.274 | 276  | 271022   | 3.896   | ng    | 97       |
| -----                         |        |      |          |         |       |          |

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

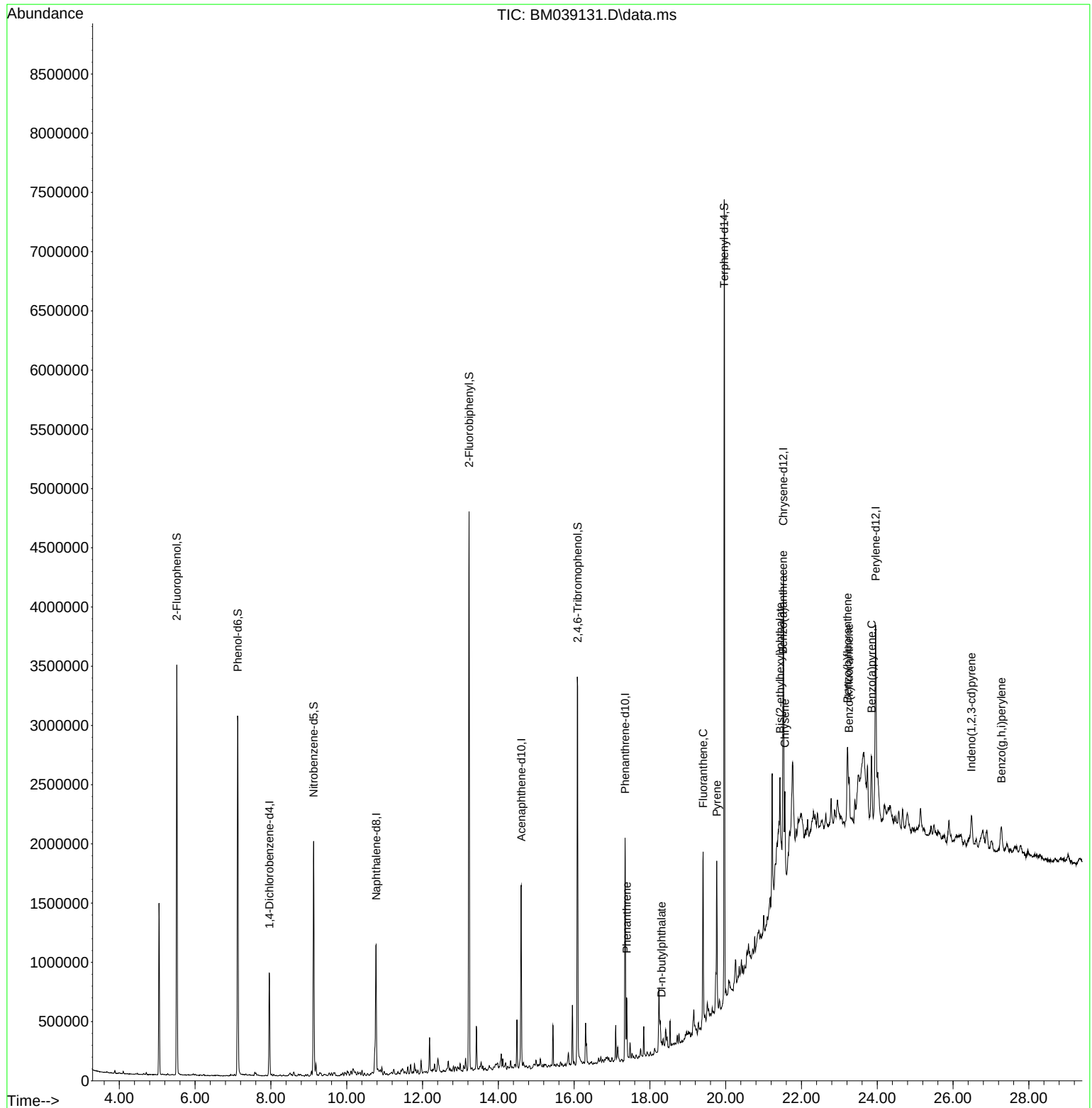
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032323\  
Data File : BM039131.D  
Acq On : 24 Mar 2023 00:29  
Operator : CG/JU  
Sample : 01932-03  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

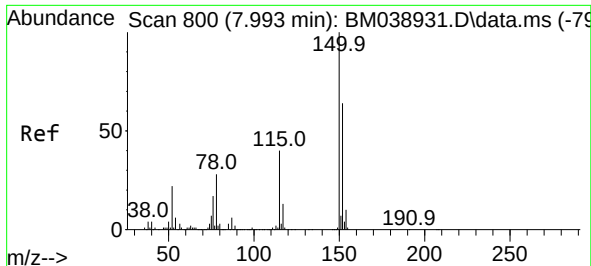
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

Quant Time: Mar 24 04:36:12 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM030823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 22 03:36:20 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

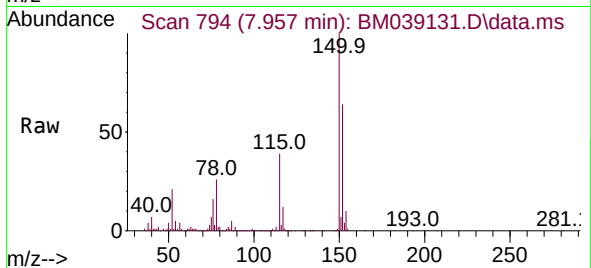
Reviewed By : Christian Giraldo 03/24/2023  
Supervised By : Jagrut Upadhyay 03/24/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.957 min Scan# 79  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

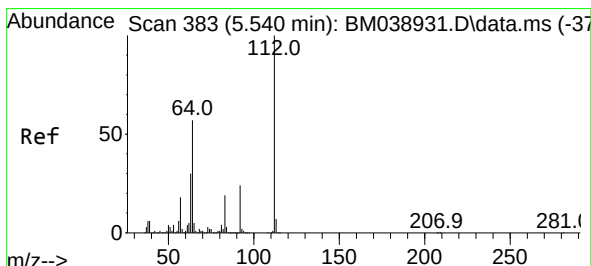
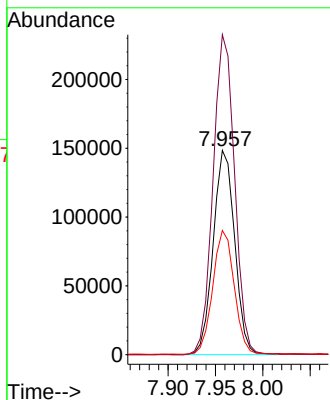
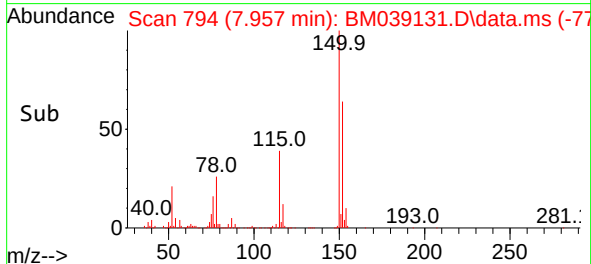
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423



Tgt Ion:152 Resp: 234259  
Ion Ratio Lower Upper  
152 100  
150 156.7 125.1 187.7  
115 60.7 49.6 74.4

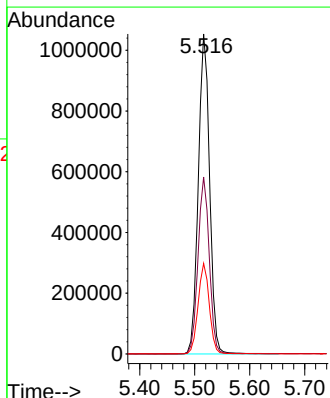
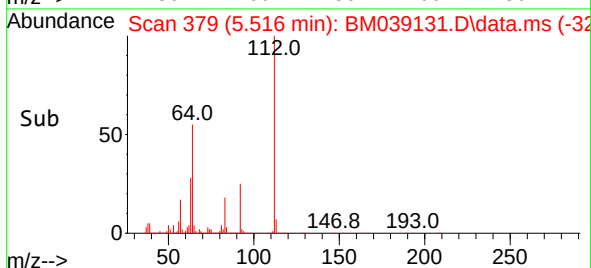
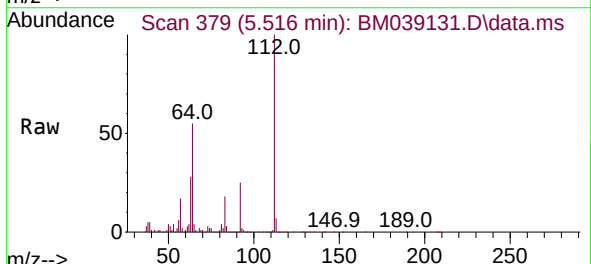
Manual Integrations  
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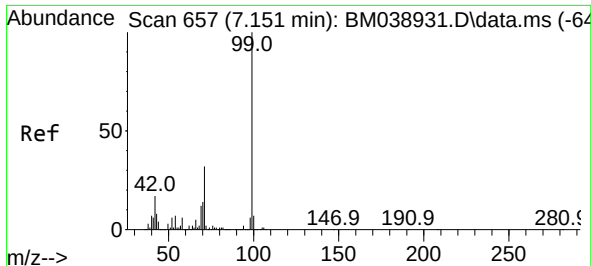
Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#5  
2-Fluorophenol  
Concen: 97.281 ng  
RT: 5.516 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

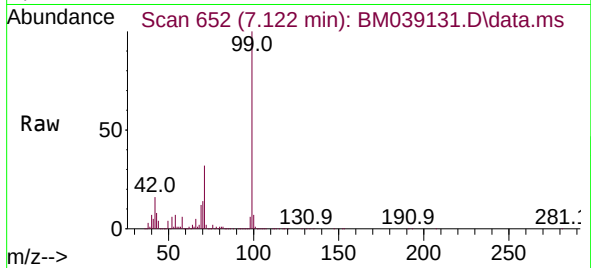
Tgt Ion:112 Resp: 1499969  
Ion Ratio Lower Upper  
112 100  
64 55.3 45.9 68.9  
63 28.3 23.8 35.8





#7  
Phenol-d6  
Concen: 94.289 ng  
RT: 7.122 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

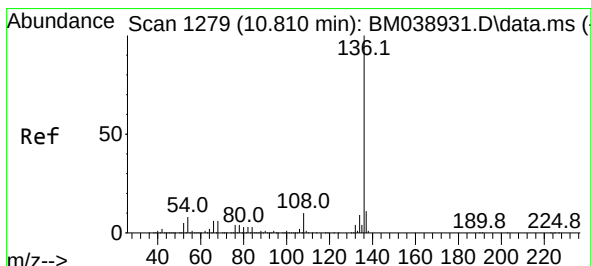
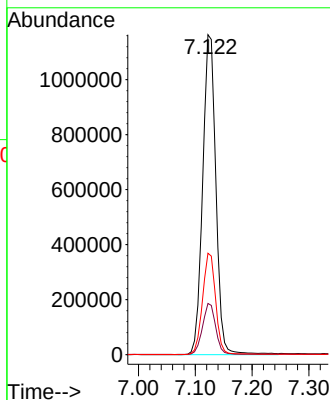
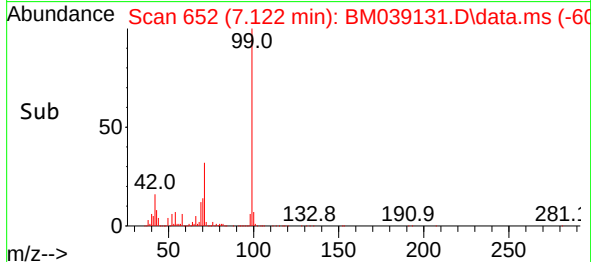
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423



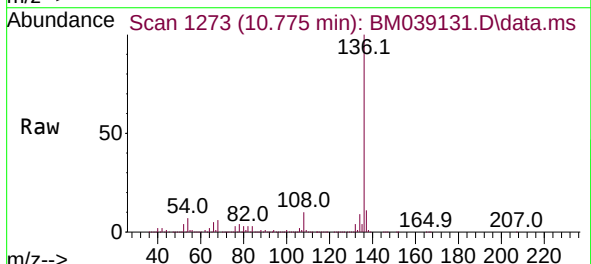
Tgt Ion: 99 Resp: 1888390  
Ion Ratio Lower Upper  
99 100  
42 16.0 13.5 20.3  
71 31.7 25.6 38.4

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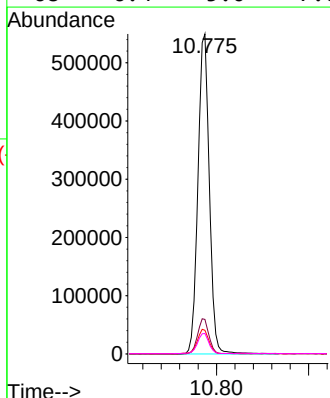
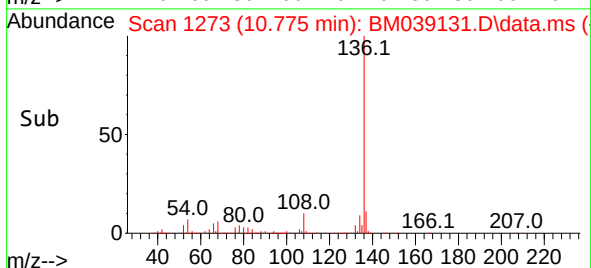
Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023

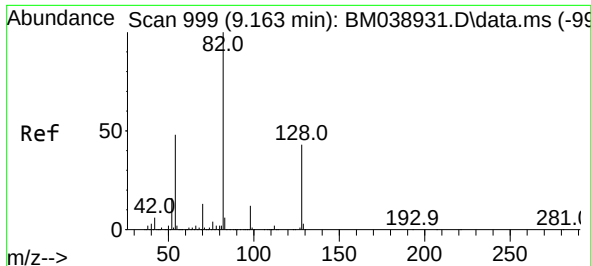


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.775 min Scan# 1273  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29



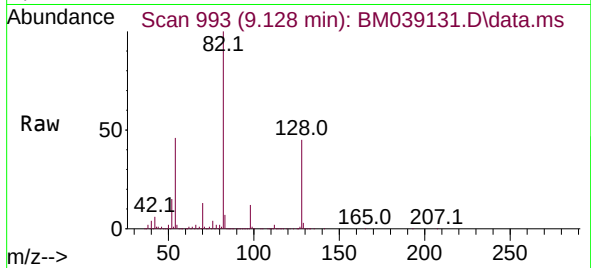
Tgt Ion:136 Resp: 935921  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.7 13.1  
54 7.4 6.3 9.5  
68 6.4 5.0 7.6





#23  
Nitrobenzene-d5  
Concen: 60.982 ng  
RT: 9.128 min Scan# 999  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

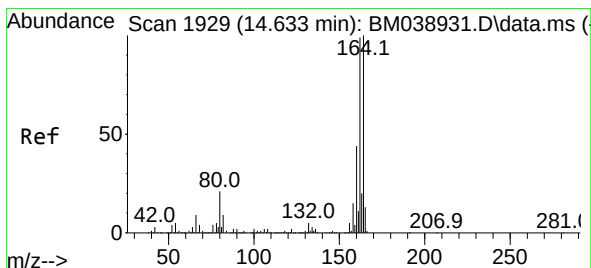
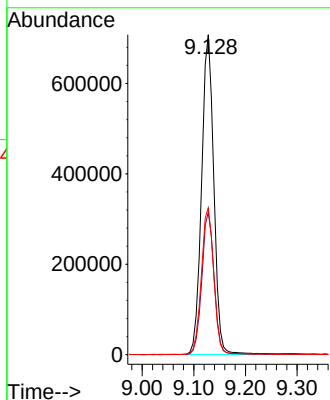
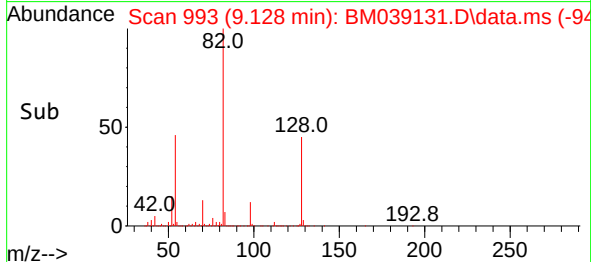
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423



Tgt Ion: 82 Resp: 1161922  
Ion Ratio Lower Upper  
82 100  
128 44.5 34.4 51.6  
54 45.9 38.8 58.2

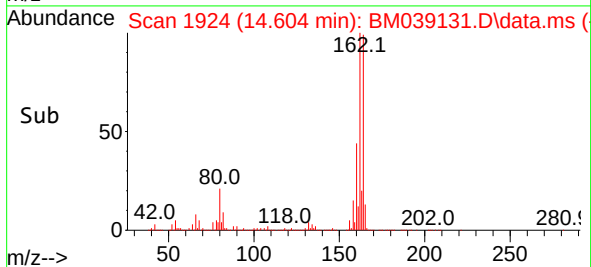
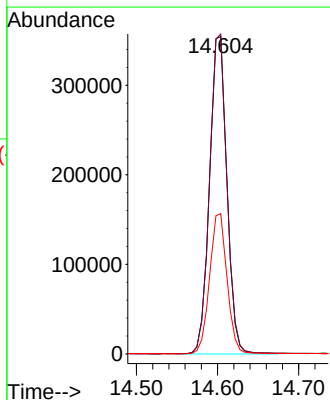
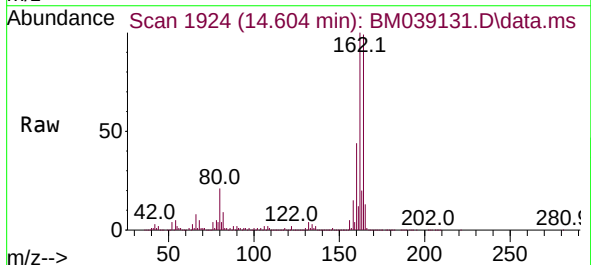
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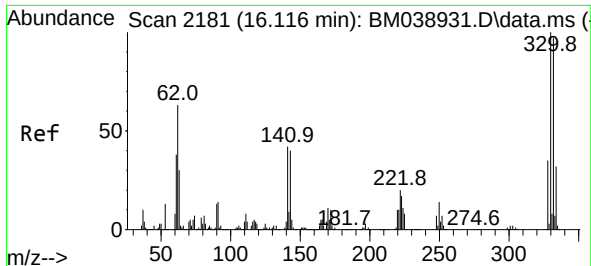
Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.604 min Scan# 1924  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:164 Resp: 528037  
Ion Ratio Lower Upper  
164 100  
162 100.8 79.2 118.8  
160 44.2 35.5 53.3





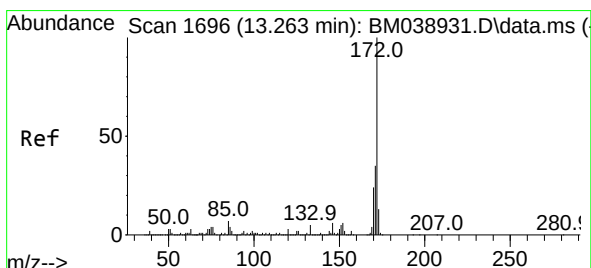
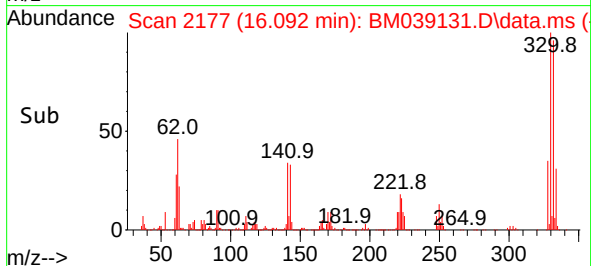
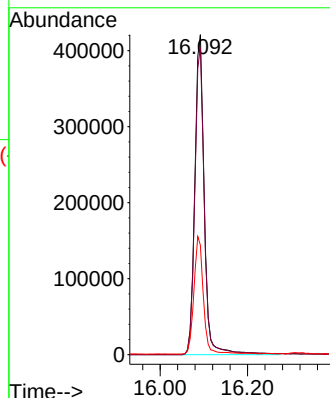
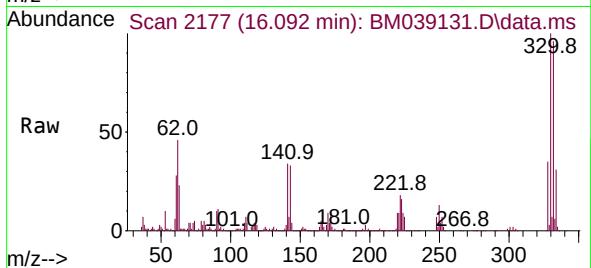
#42  
2,4,6-Tribromophenol  
Concen: 104.077 ng  
RT: 16.092 min Scan# 2181  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

Tgt Ion:330 Resp: 635752  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.4 116.0  
141 36.5 32.2 48.4

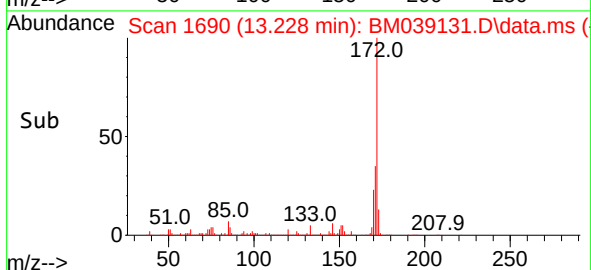
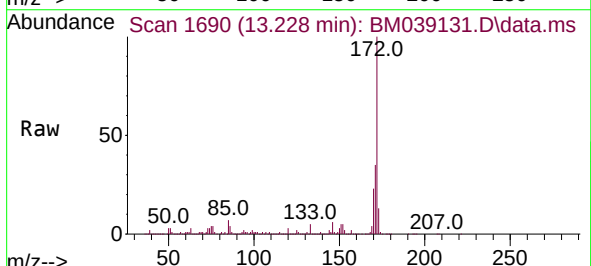
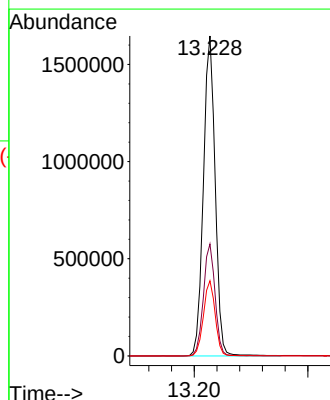
Manual Integrations  
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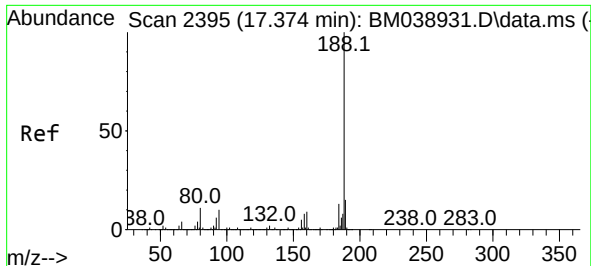
Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#45  
2-Fluorobiphenyl  
Concen: 58.248 ng  
RT: 13.228 min Scan# 1690  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:172 Resp: 2362653  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.2 42.2  
170 23.5 19.1 28.7





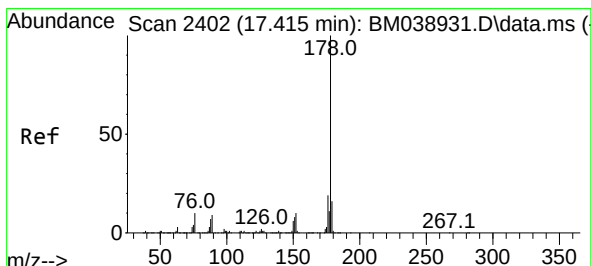
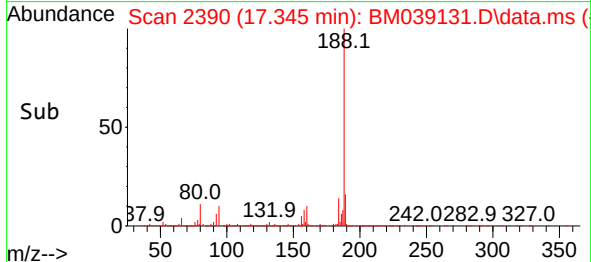
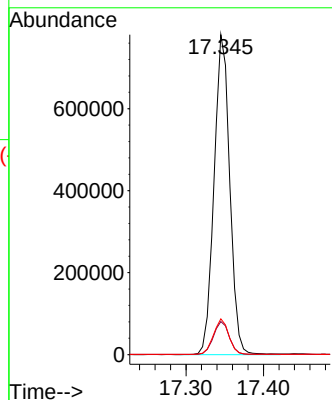
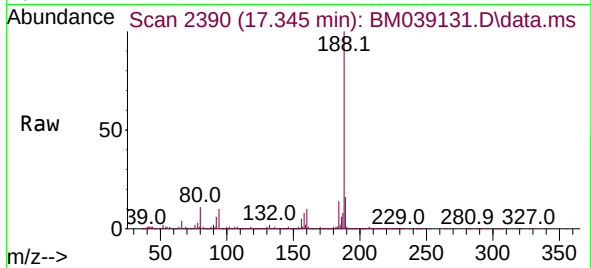
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.345 min Scan# 2395  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

Tgt Ion:188 Resp: 1096715  
Ion Ratio Lower Upper  
188 100  
94 10.3 7.9 11.9  
80 11.2 8.5 12.7

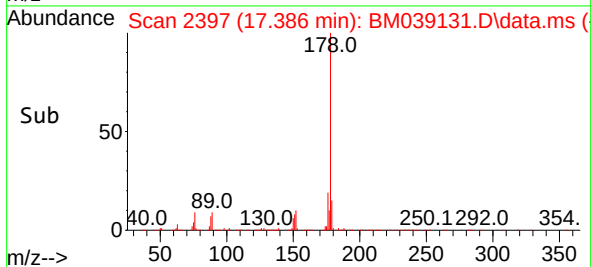
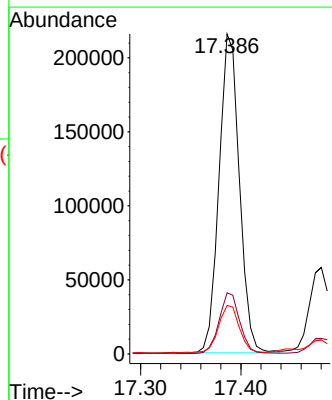
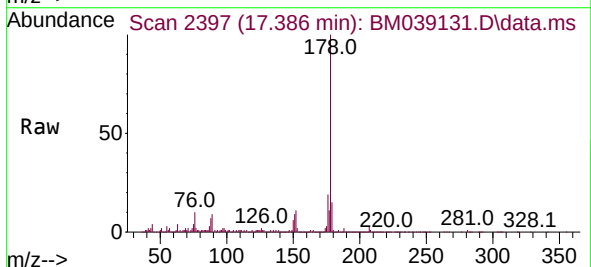
Manual Integrations  
APPROVED

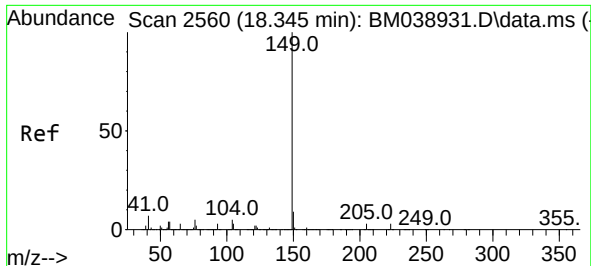
Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#71  
Phenanthrene  
Concen: 4.740 ng  
RT: 17.386 min Scan# 2397  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

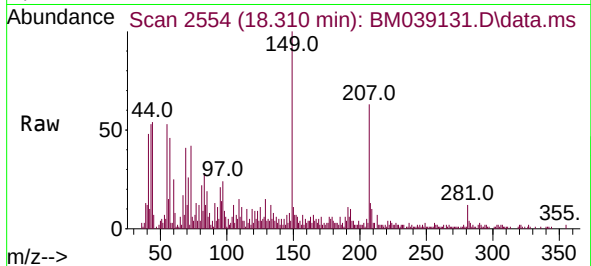
Tgt Ion:178 Resp: 305106  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.6 23.4  
179 15.2 12.5 18.7





#74  
Di-n-butylphthalate  
Concen: 2.087 ng  
RT: 18.310 min Scan# 21394  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

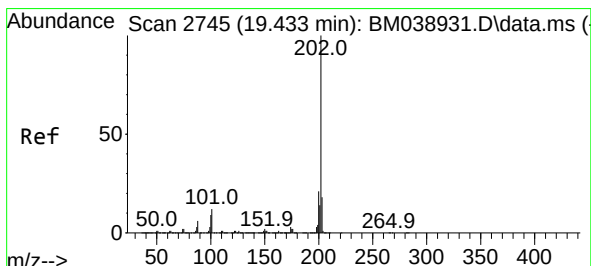
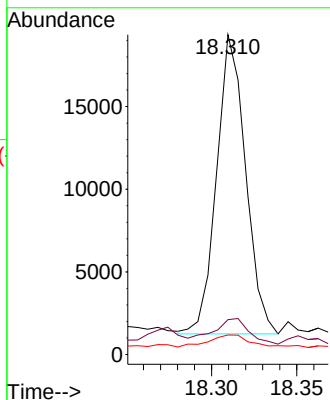
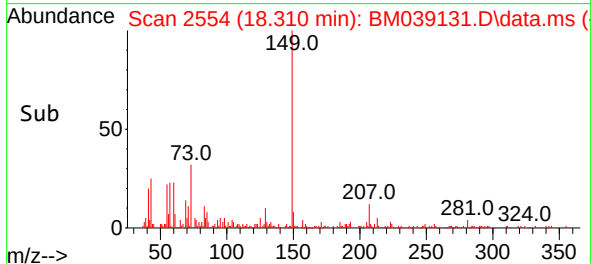
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423



Tgt Ion:149 Resp: 21394  
Ion Ratio Lower Upper  
149 100  
150 10.9 7.4 11.2  
104 6.1 4.3 6.5

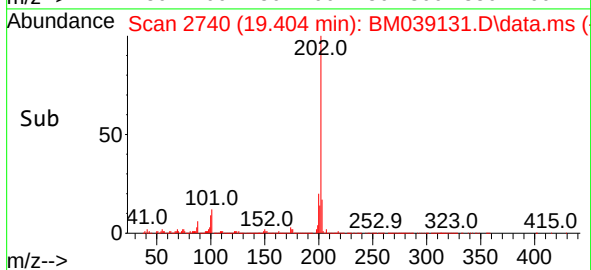
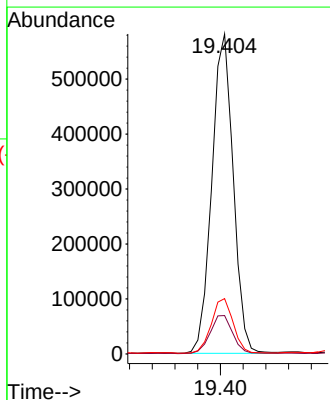
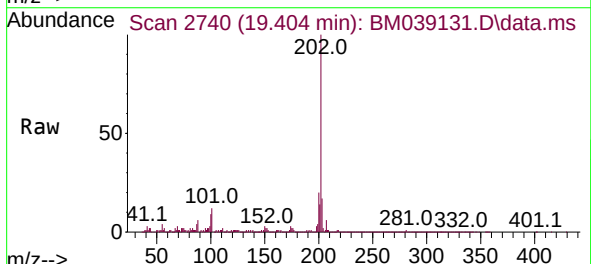
Manual Integrations  
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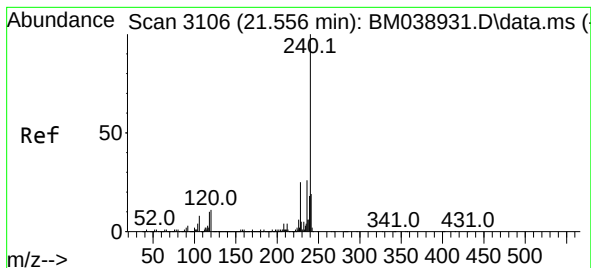


#75  
Fluoranthene  
Concen: 11.183 ng  
RT: 19.404 min Scan# 2740  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:202 Resp: 760008  
Ion Ratio Lower Upper  
202 100  
101 12.0 0.0 31.7  
203 17.3 0.0 37.6







#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.521 min Scan# 3106

Delta R.T. -0.012 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

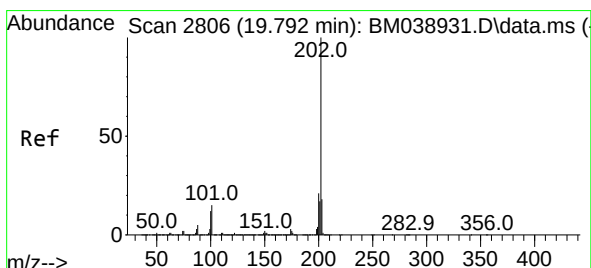
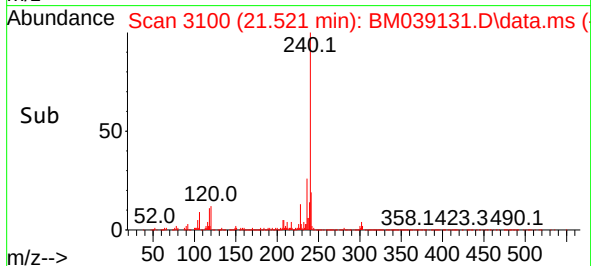
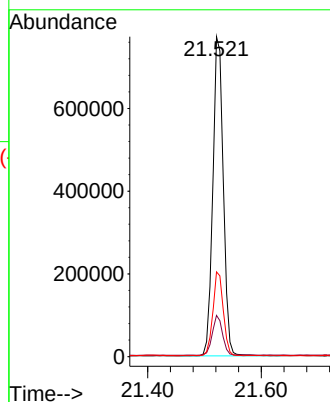
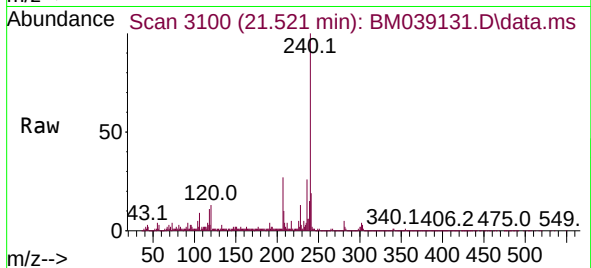
CE-86B-031423

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 993185 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.9  | 9.2   | 13.8   |
| 236       | 26.5  | 20.8  | 31.2   |

Manual Integrations

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Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#78

Pyrene

Concen: 9.942 ng

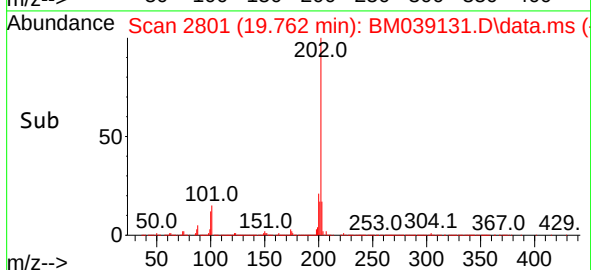
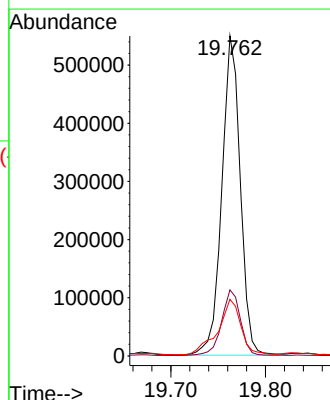
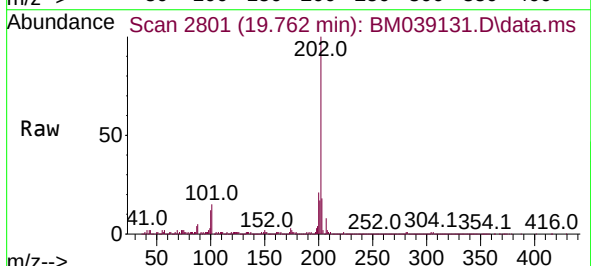
RT: 19.762 min Scan# 2801

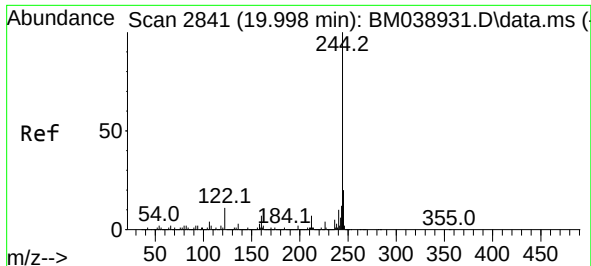
Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 741631 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.6  | 17.1  | 25.7   |
| 203       | 17.7  | 14.1  | 21.1   |





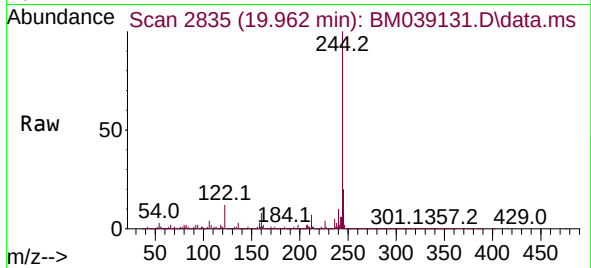
#79  
 Terphenyl-d14  
 Concen: 61.301 ng  
 RT: 19.962 min Scan# 2841  
 Delta R.T. -0.006 min  
 Lab File: BM039131.D  
 Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423

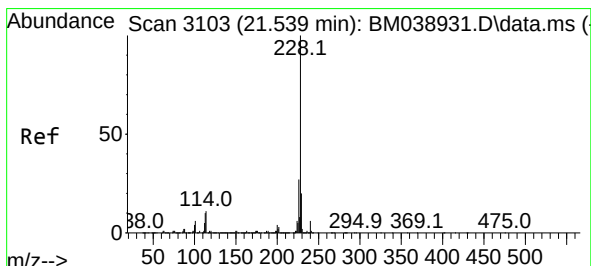
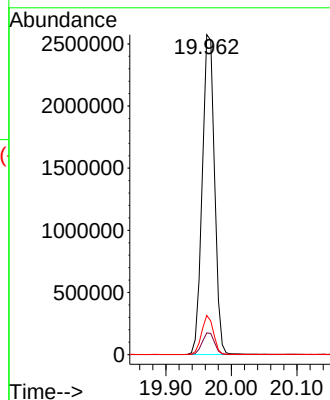
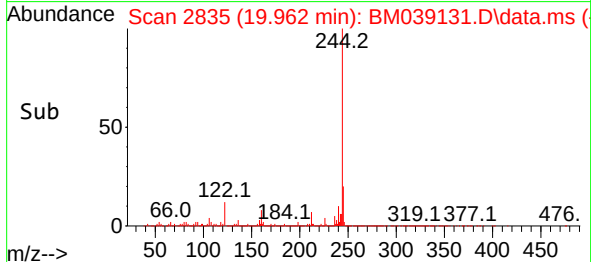


Tgt Ion:244 Resp: 332996  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.5 8.3  
 122 12.2 9.0 13.4

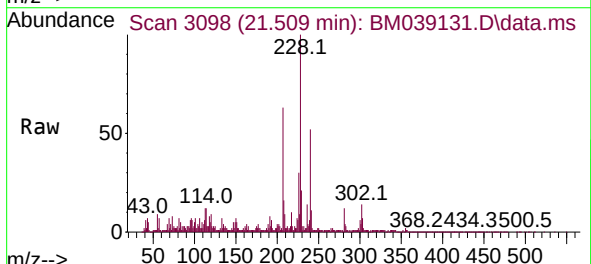
Manual Integrations

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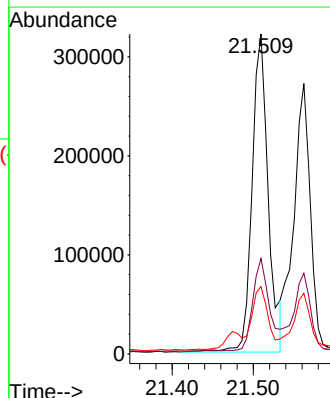
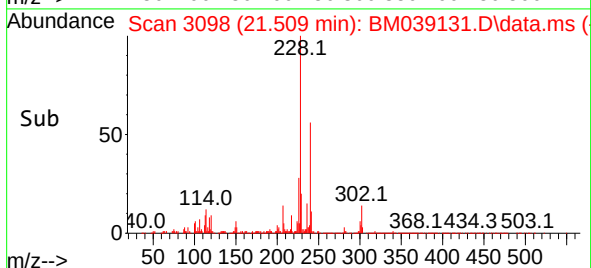
Reviewed By :Christian Giraldo 03/24/2023  
 Supervised By :Jagrut Upadhyay 03/24/2023

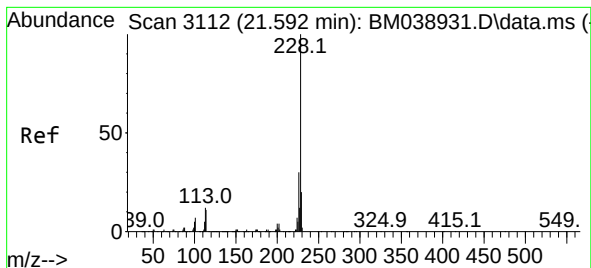


#81  
 Benzo(a)anthracene  
 Concen: 6.173 ng  
 RT: 21.509 min Scan# 3098  
 Delta R.T. -0.006 min  
 Lab File: BM039131.D  
 Acq: 24 Mar 2023 00:29



Tgt Ion:228 Resp: 441546  
 Ion Ratio Lower Upper  
 228 100  
 226 29.8 21.4 32.2  
 229 21.0 15.7 23.5





#83

Chrysene

Concen: 5.581 ng

RT: 21.562 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

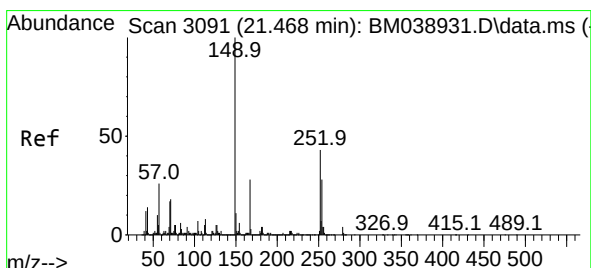
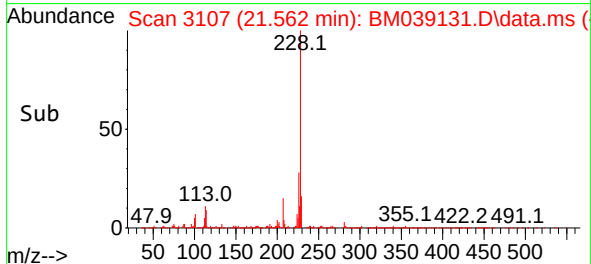
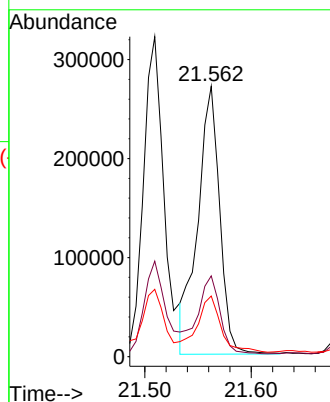
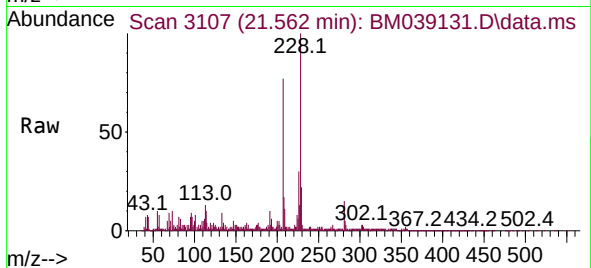
CE-86B-031423

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 388233 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.9  | 24.0  | 36.0   |
| 229       | 22.4  | 16.0  | 24.0   |

Manual Integrations

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Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 6.125 ng m

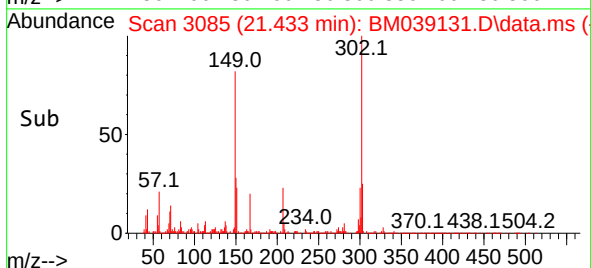
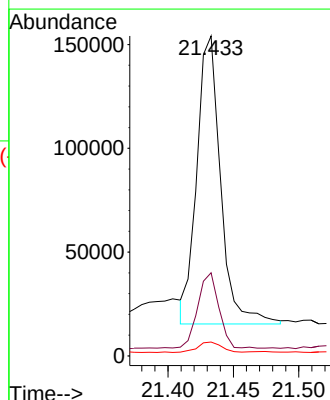
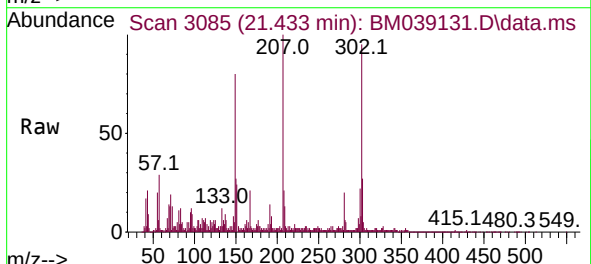
RT: 21.433 min Scan# 3085

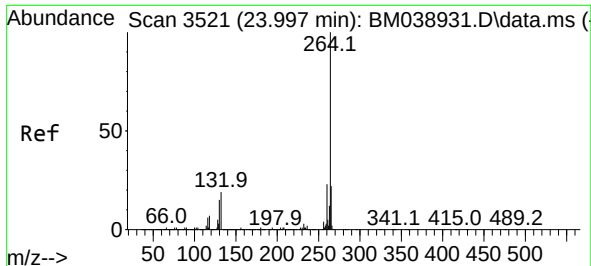
Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

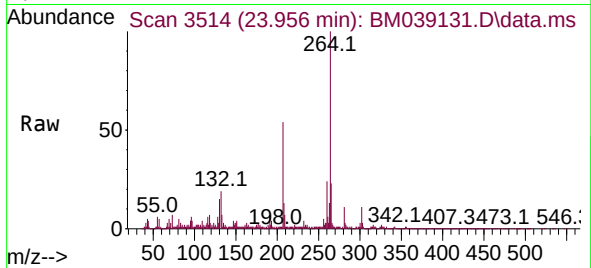
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 176057 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 26.0  | 22.3  | 33.5   |
| 279       | 4.3   | 3.2   | 4.8    |





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.956 min Scan# 31  
 Delta R.T. -0.006 min  
 Lab File: BM039131.D  
 Acq: 24 Mar 2023 00:29

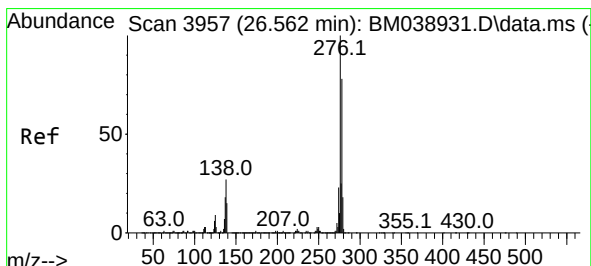
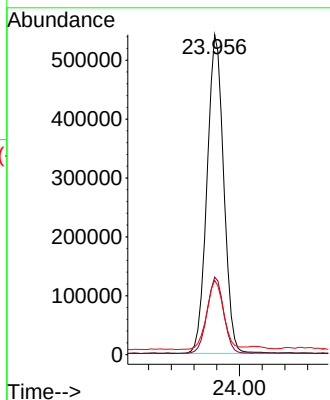
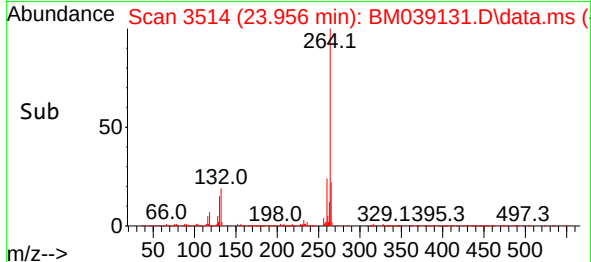
Instrument :  
 BNA\_M  
 ClientSampleId :  
 CE-86B-031423



Tgt Ion:264 Resp: 110344  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 18.7 28.1  
 265 23.2 17.9 26.9

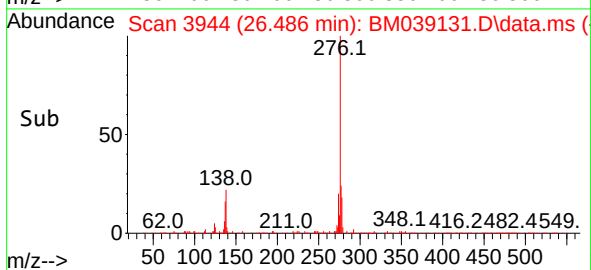
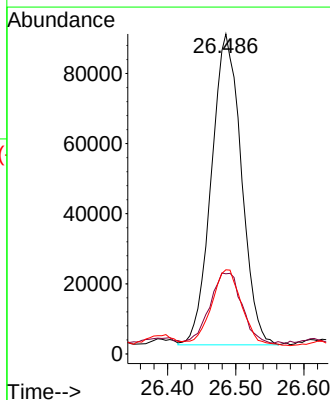
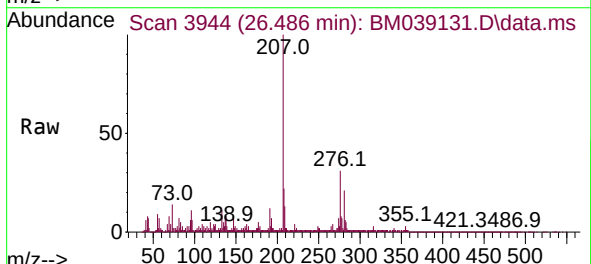
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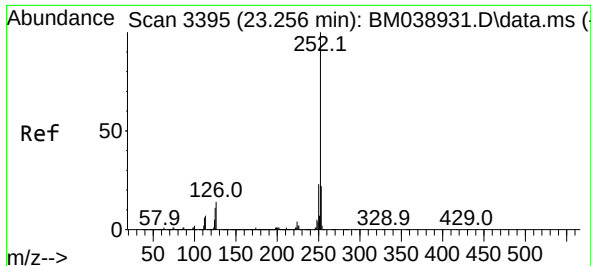
Reviewed By :Christian Giraldo 03/24/2023  
 Supervised By :Jagrut Upadhyay 03/24/2023



#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.215 ng  
 RT: 26.486 min Scan# 3944  
 Delta R.T. -0.012 min  
 Lab File: BM039131.D  
 Acq: 24 Mar 2023 00:29

Tgt Ion:276 Resp: 269958  
 Ion Ratio Lower Upper  
 276 100  
 138 24.0 22.1 33.1  
 277 24.9 20.1 30.1





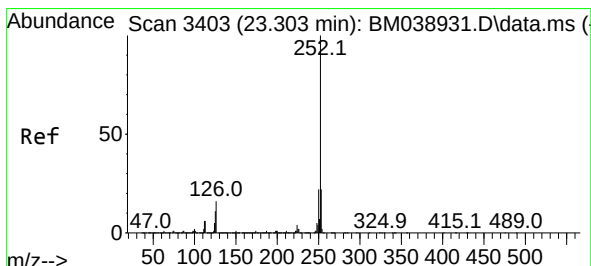
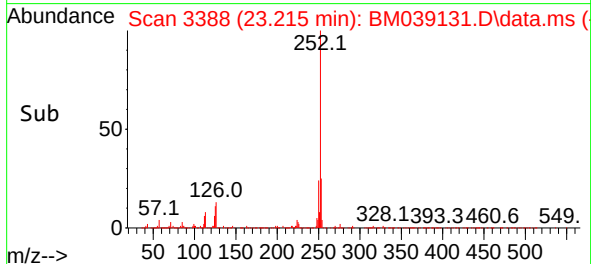
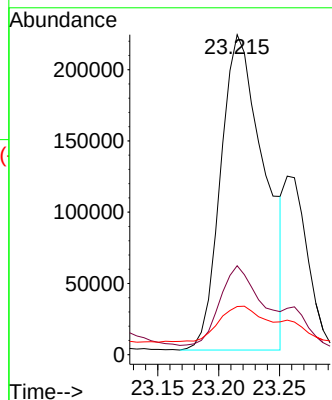
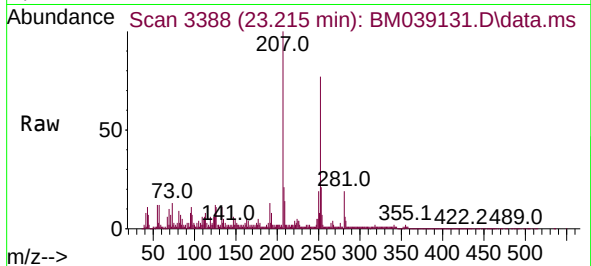
#88  
Benzo(b)fluoranthene  
Concen: 7.827 ng  
RT: 23.215 min Scan# 3388  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

Tgt Ion:252 Resp: 551768  
Ion Ratio Lower Upper  
252 100  
253 27.8 17.6 26.4  
125 15.0 8.8 13.2

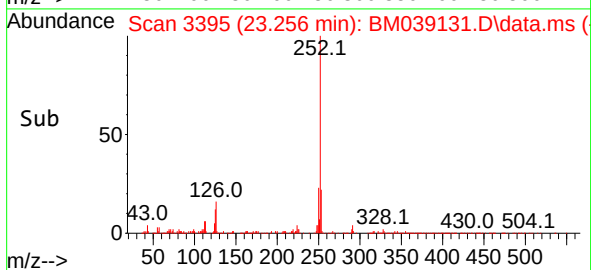
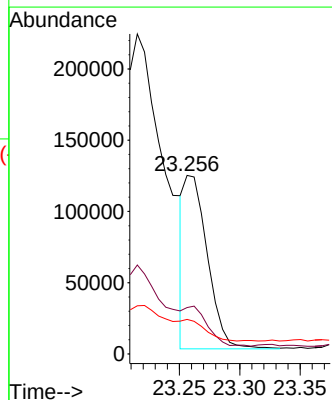
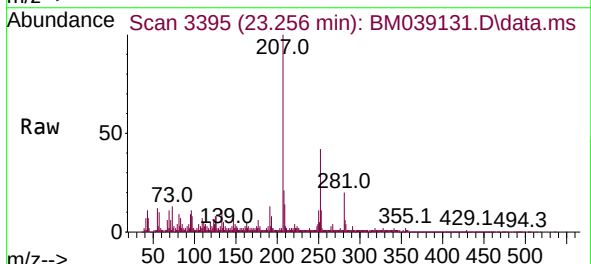
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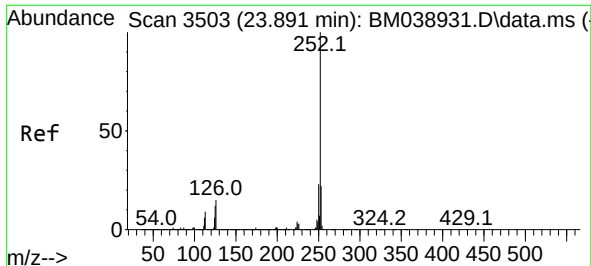
Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#89  
Benzo(k)fluoranthene  
Concen: 2.209 ng m  
RT: 23.256 min Scan# 3395  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:252 Resp: 162083  
Ion Ratio Lower Upper  
252 100  
253 25.9 17.5 26.3  
125 19.3 8.9 13.3





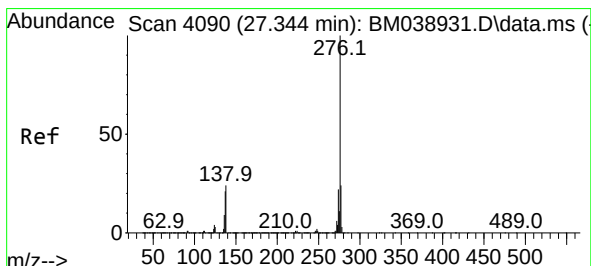
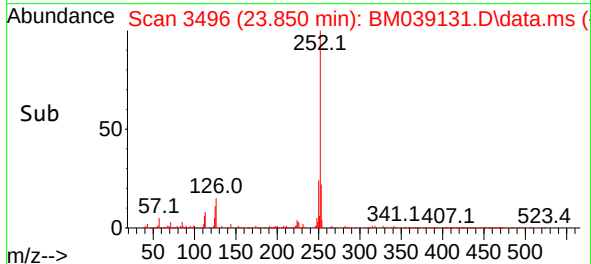
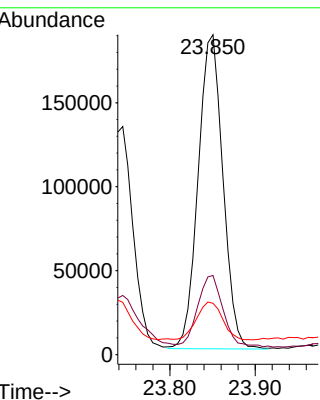
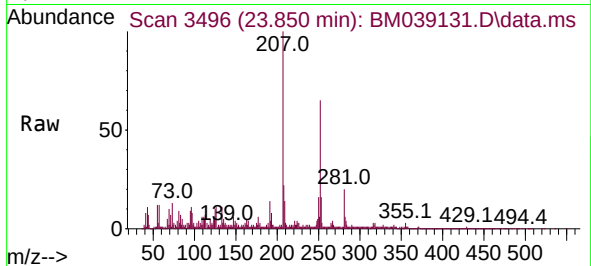
#90  
Benzo(a)pyrene  
Concen: 5.569 ng  
RT: 23.850 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

Tgt Ion:252 Resp: 37783  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.6 26.4  
125 16.0 9.8 14.8

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 03/24/2023  
Supervised By :Jagrut Upadhyay 03/24/2023



#92  
Benzo(g,h,i)perylene  
Concen: 3.896 ng  
RT: 27.274 min Scan# 4078  
Delta R.T. 0.000 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:276 Resp: 271022  
Ion Ratio Lower Upper  
276 100  
277 25.8 19.3 28.9  
138 24.6 19.0 28.6

