

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM111022\  
 Data File : BM037451.D  
 Acq On : 10 Nov 2022 14:57  
 Operator : CG/JU  
 Sample : N5436-03DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 250FERRYBLVD-TFS-03DL

Quant Time: Nov 10 17:21:33 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM102822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 09 02:08:14 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 11/11/2022  
 Supervised By :Jagrut Upadhyay 11/11/2022

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.810  | 152  | 244439   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.610 | 136  | 952372   | 20.000 | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.451 | 164  | 546314   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.192 | 188  | 1169257  | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.374 | 240  | 1252458  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.703 | 264  | 1338787  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.387  | 112  | 274335   | 19.389 | ng    | 0.00     |
| 7) Phenol-d6                | 6.992  | 99   | 327088   | 17.033 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 8.981  | 82   | 199276   | 10.557 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.939 | 330  | 136198   | 21.155 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.074 | 172  | 458928   | 11.162 | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.815 | 244  | 764399   | 10.945 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 20) 3+4-Methylphenols       | 8.598  | 107  | 50770    | 2.629  | ng    | 96       |
| 27) 2,4-Dimethylphenol      | 9.798  | 122  | 67612    | 5.318  | ng    | 95       |
| 31) Naphthalene             | 10.663 | 128  | 155371   | 2.880  | ng    | 99       |
| 49) Acenaphthylene          | 14.174 | 152  | 120607   | 2.215  | ng    | 99       |
| 71) Phenanthrene            | 17.233 | 178  | 912556   | 12.580 | ng    | 100      |
| 72) Anthracene              | 17.327 | 178  | 268767   | 3.914  | ng    | 99       |
| 75) Fluoranthene            | 19.251 | 202  | 3482821  | 45.419 | ng    | 99       |
| 78) Pyrene                  | 19.615 | 202  | 3514330  | 36.490 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.356 | 228  | 1404144  | 15.747 | ng    | 99       |
| 83) Chrysene                | 21.409 | 228  | 1286329  | 14.974 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.109 | 276  | 550040   | 5.018  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 22.997 | 252  | 1269444  | 13.658 | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.039 | 252  | 459513m  | 4.847  | ng    |          |
| 90) Benzo(a)pyrene          | 23.603 | 252  | 910711   | 12.026 | ng    | 99       |
| 92) Benzo(g,h,i)perylene    | 26.856 | 276  | 521779   | 5.889  | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

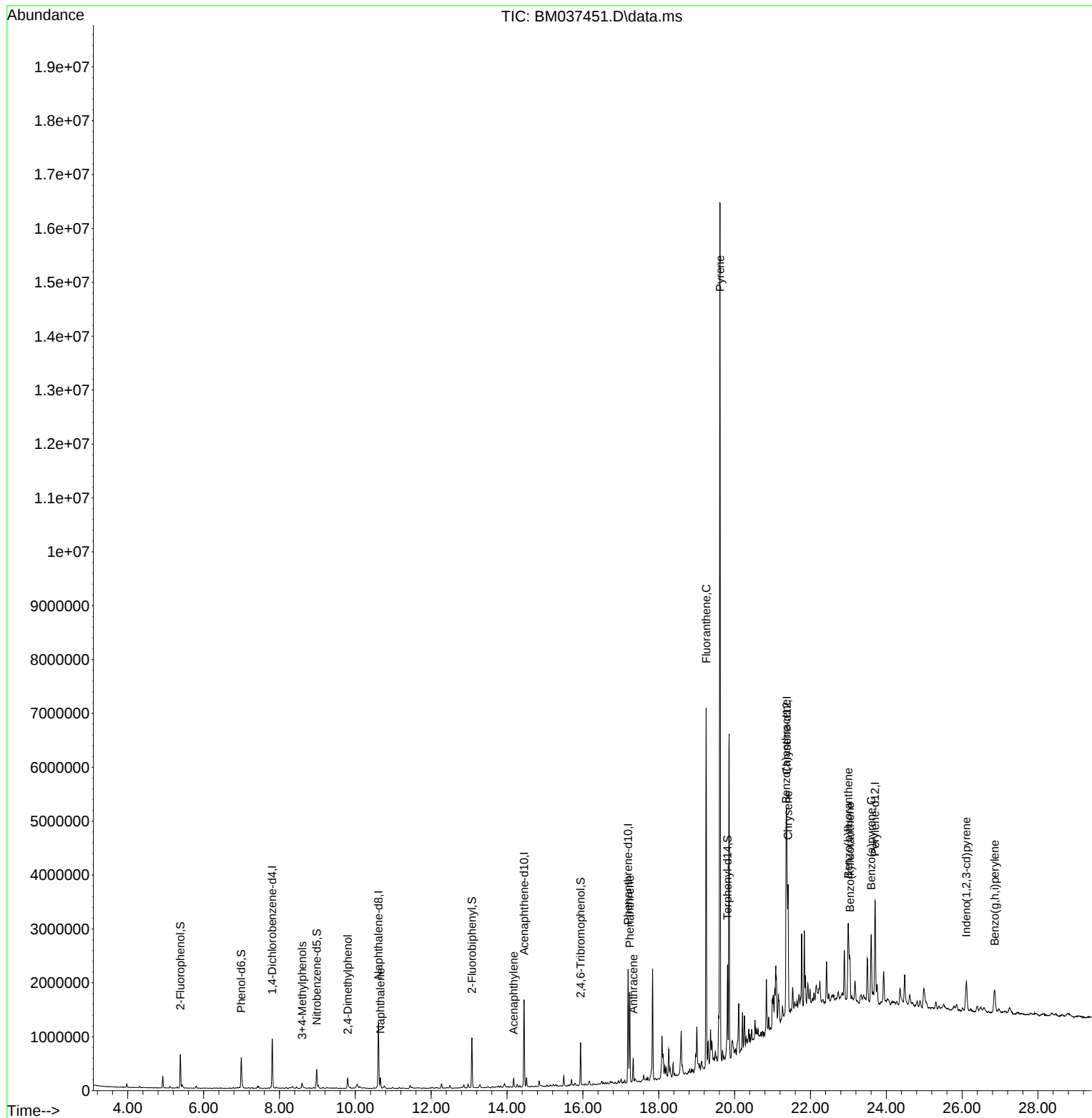
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM111022\  
Data File : BM037451.D  
Acq On : 10 Nov 2022 14:57  
Operator : CG/JU  
Sample : N5436-03DL 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

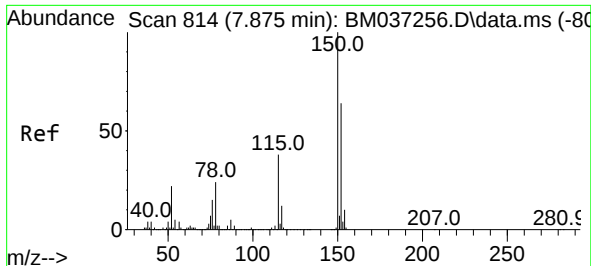
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL

Quant Time: Nov 10 17:21:33 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM102822.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 09 02:08:14 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

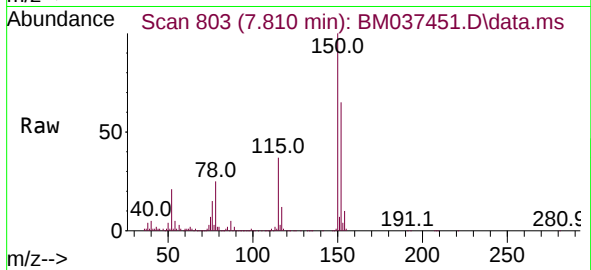
Reviewed By : Christian Giraldo 11/11/2022  
Supervised By : Jagrut Upadhyay 11/11/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.810 min Scan# 80  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

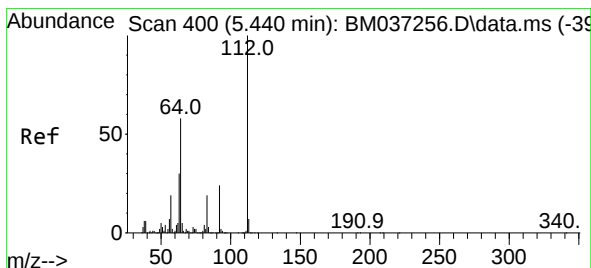
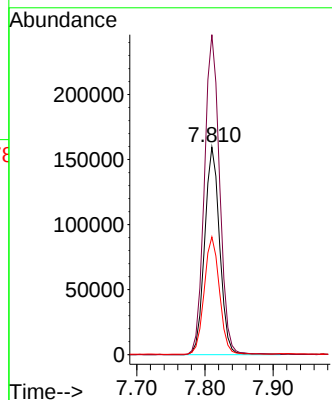
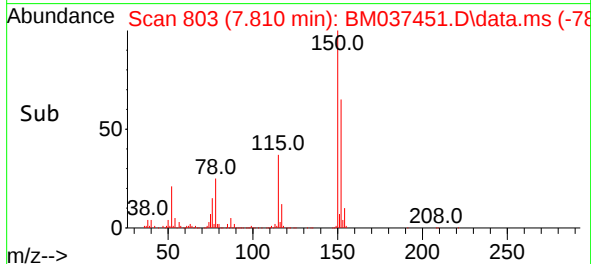
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



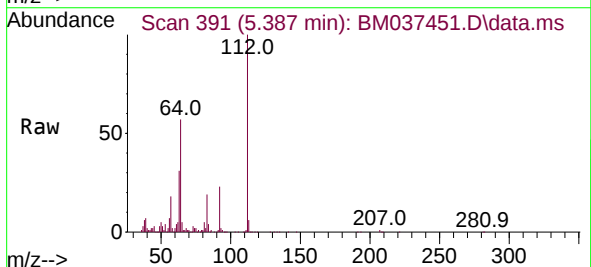
Tgt Ion:152 Resp: 244439  
Ion Ratio Lower Upper  
152 100  
150 154.3 124.8 187.2  
115 56.8 47.0 70.4

Manual Integrations  
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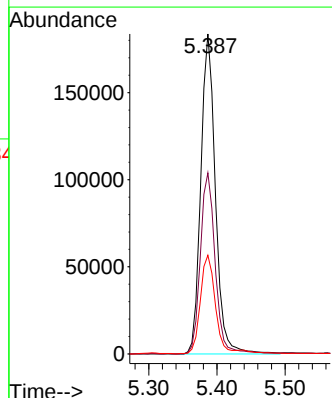
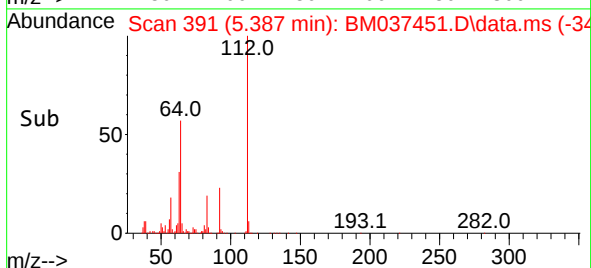
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022

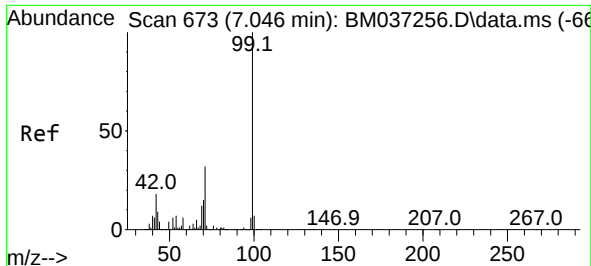


#5  
2-Fluorophenol  
Concen: 19.389 ng  
RT: 5.387 min Scan# 391  
Delta R.T. -0.006 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57



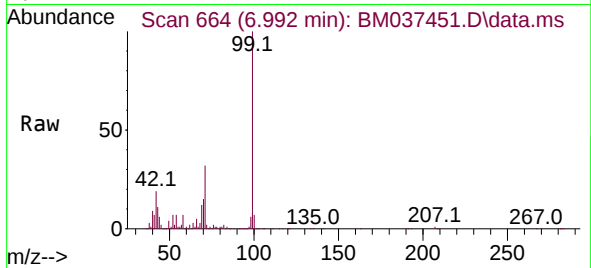
Tgt Ion:112 Resp: 274335  
Ion Ratio Lower Upper  
112 100  
64 56.6 46.8 70.2  
63 30.8 24.4 36.6





#7  
Phenol-d6  
Concen: 17.033 ng  
RT: 6.992 min Scan# 60  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

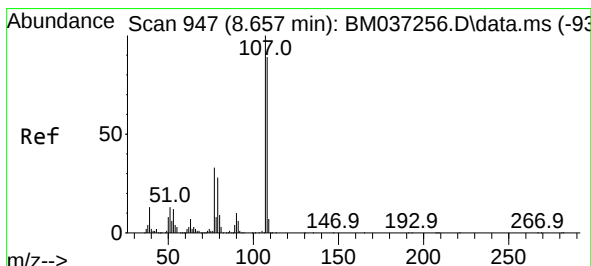
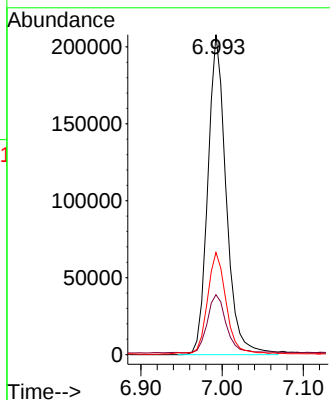
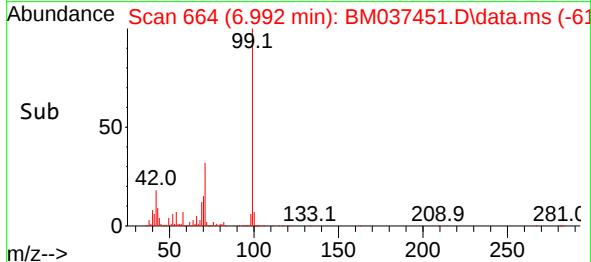
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



Tgt Ion: 99 Resp: 327088  
Ion Ratio Lower Upper  
99 100  
42 18.7 14.8 22.2  
71 31.9 25.6 38.4

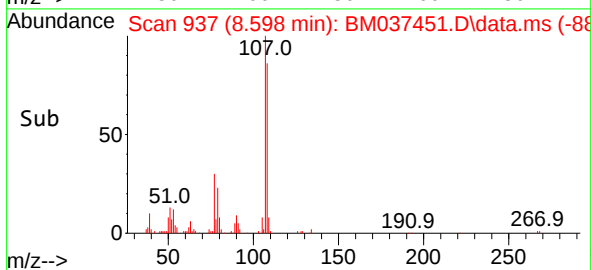
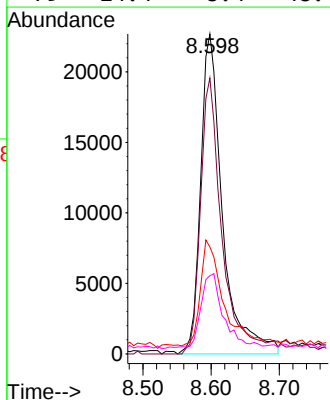
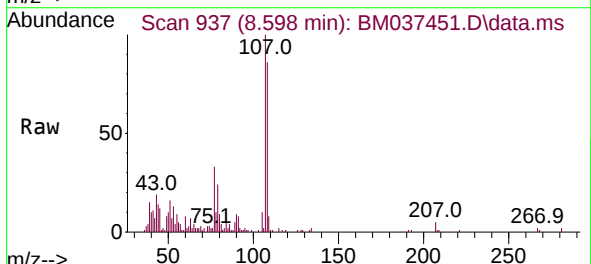
Manual Integrations  
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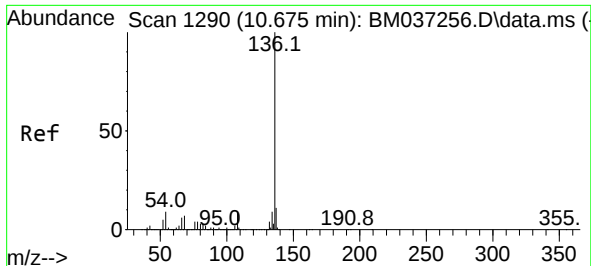
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#20  
3+4-Methylphenols  
Concen: 2.629 ng  
RT: 8.598 min Scan# 937  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

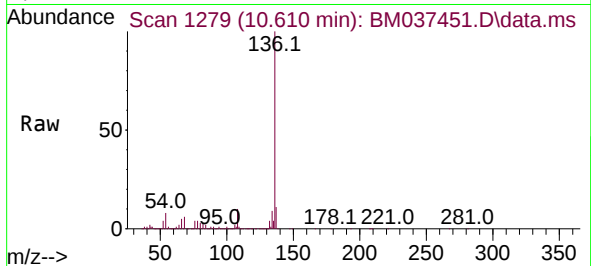
Tgt Ion:107 Resp: 50770  
Ion Ratio Lower Upper  
107 100  
108 86.2 69.4 109.4  
77 33.4 12.8 52.8  
79 24.4 8.4 48.4





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.610 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

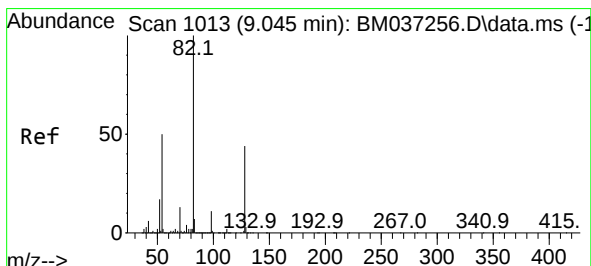
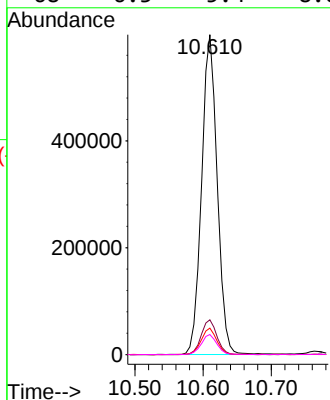
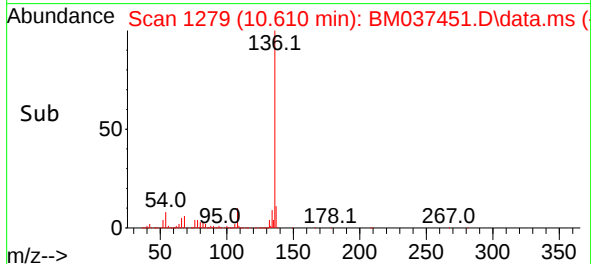
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



Tgt Ion:136 Resp: 952372  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.4  
54 8.3 7.0 10.4  
68 6.3 5.4 8.0

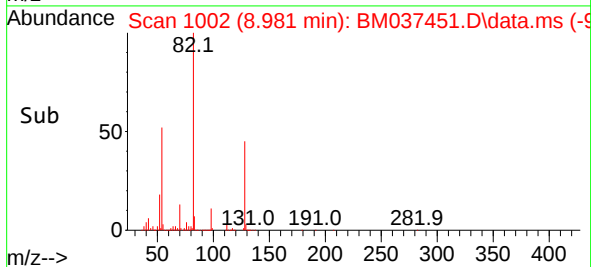
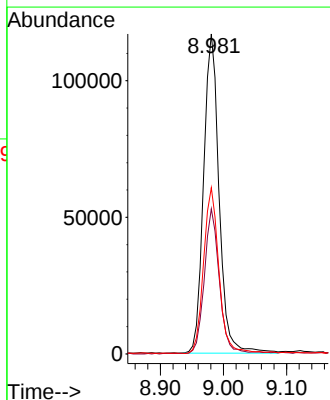
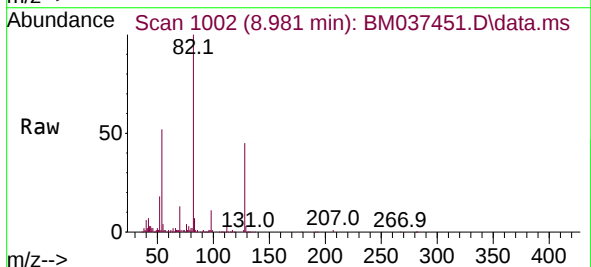
Manual Integrations  
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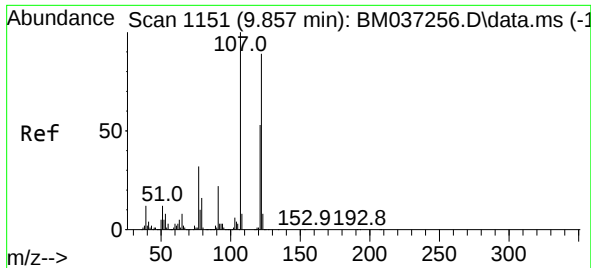
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#23  
Nitrobenzene-d5  
Concen: 10.557 ng  
RT: 8.981 min Scan# 1002  
Delta R.T. -0.018 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

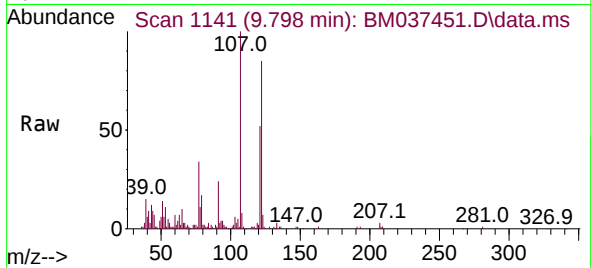
Tgt Ion: 82 Resp: 199276  
Ion Ratio Lower Upper  
82 100  
128 45.3 35.2 52.8  
54 51.9 40.4 60.6





#27  
2,4-Dimethylphenol  
Concen: 5.318 ng  
RT: 9.798 min Scan# 1141  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

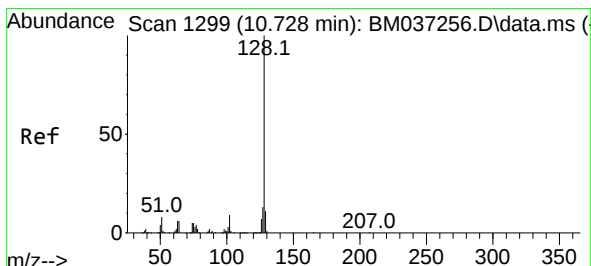
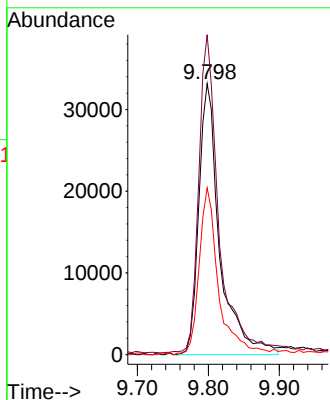
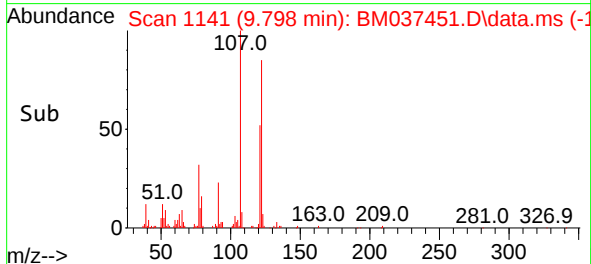
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



Tgt Ion:122 Resp: 67612  
Ion Ratio Lower Upper  
122 100  
107 118.1 89.7 134.5  
121 61.6 47.1 70.7

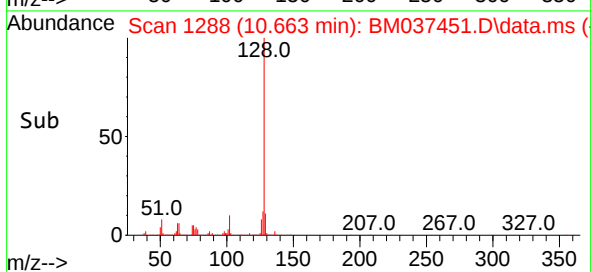
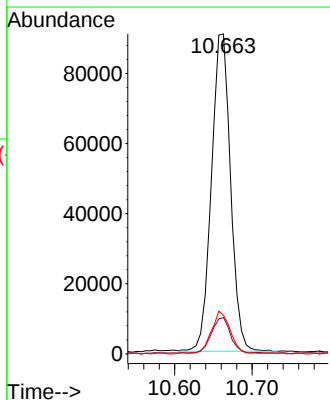
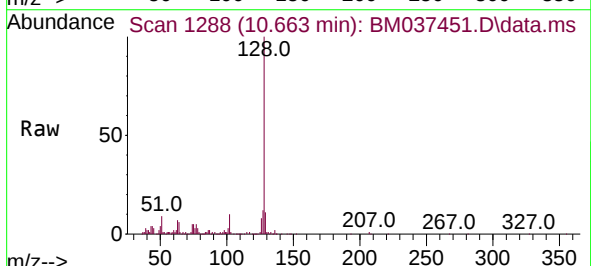
Manual Integrations  
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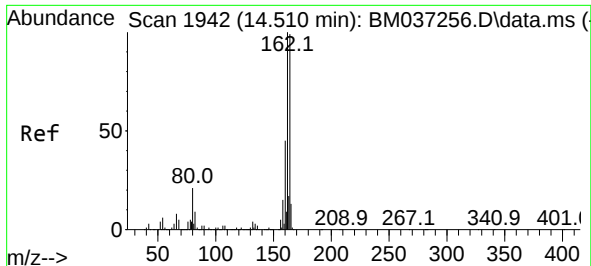
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#31  
Naphthalene  
Concen: 2.880 ng  
RT: 10.663 min Scan# 1288  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

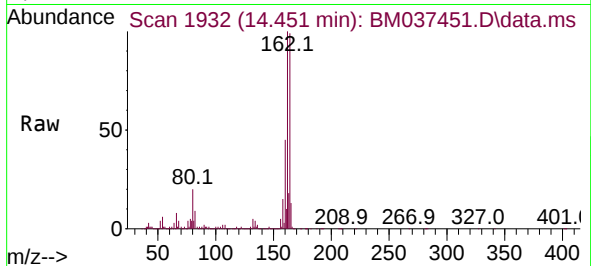
Tgt Ion:128 Resp: 155371  
Ion Ratio Lower Upper  
128 100  
129 11.3 8.7 13.1  
127 12.1 10.2 15.2





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.451 min Scan# 1942  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

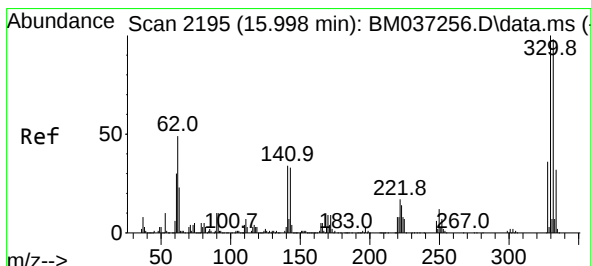
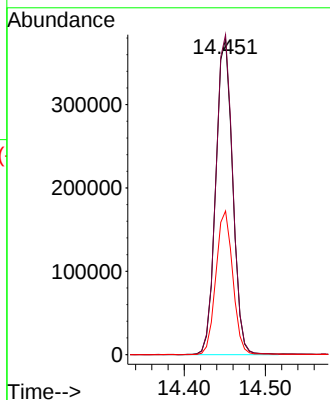
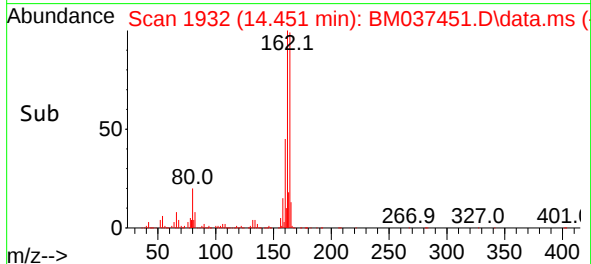
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



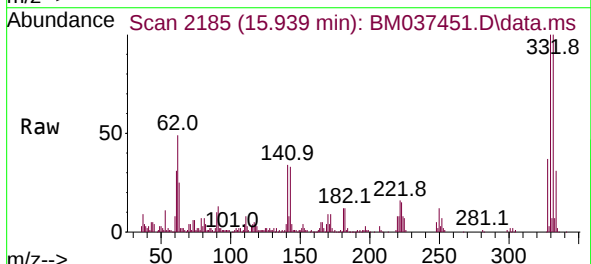
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Ion Ratio Lower Upper  
164 100  
162 101.4 80.6 120.8  
160 45.5 36.2 54.4

Manual Integrations  
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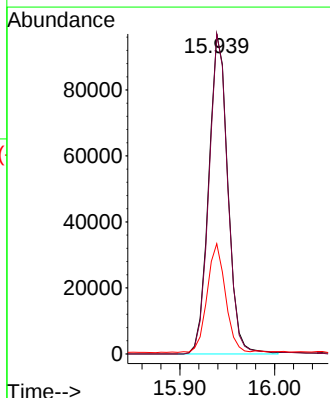
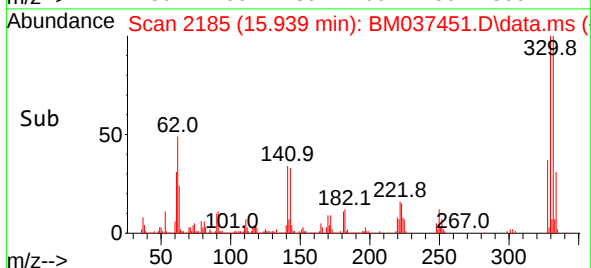
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022

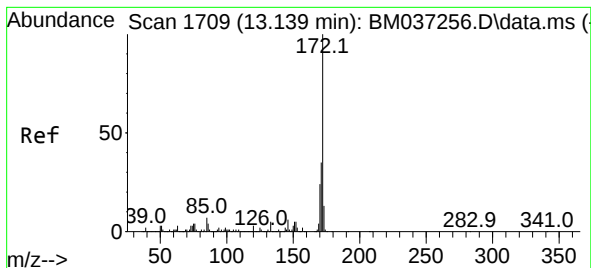


#42  
2,4,6-Tribromophenol  
Concen: 21.155 ng  
RT: 15.939 min Scan# 2185  
Delta R.T. -0.018 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57



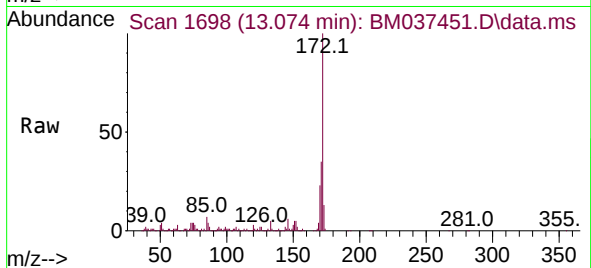
Tgt Ion:330 Resp: 136198  
Ion Ratio Lower Upper  
330 100  
332 98.8 78.0 117.0  
141 32.9 27.5 41.3





#45  
2-Fluorobiphenyl  
Concen: 11.162 ng  
RT: 13.074 min Scan# 10  
Delta R.T. -0.018 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

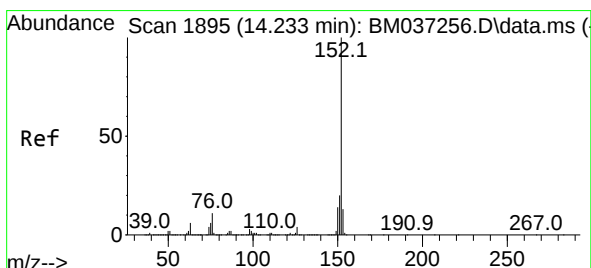
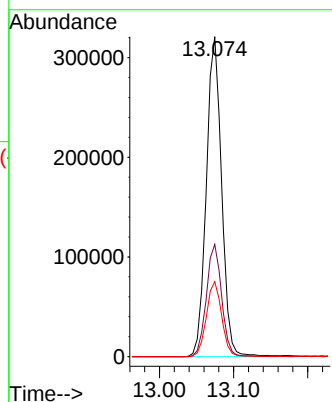
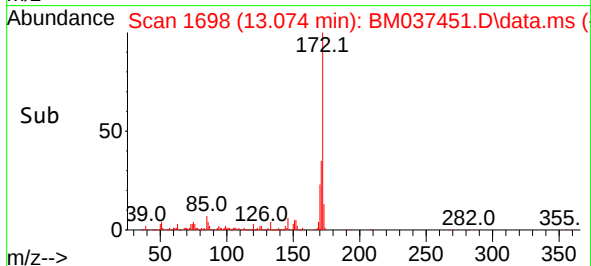
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



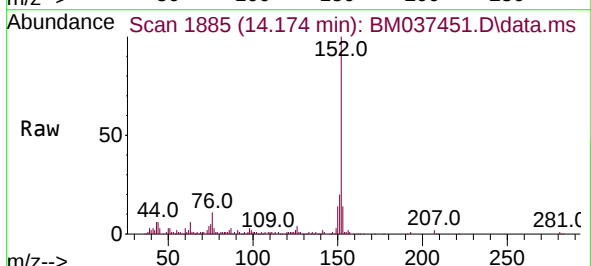
Tgt Ion:172 Resp: 458928  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.1 42.1  
170 23.4 19.0 28.4

Manual Integrations  
APPROVED

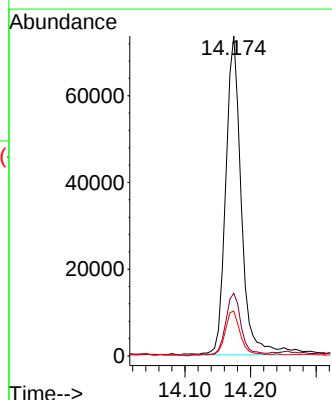
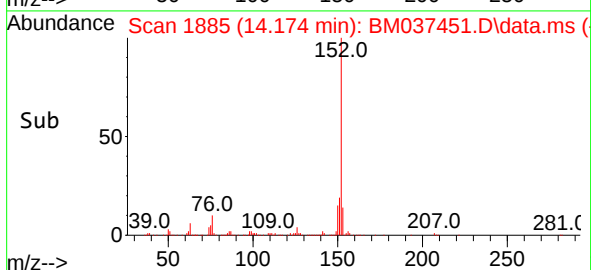
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022

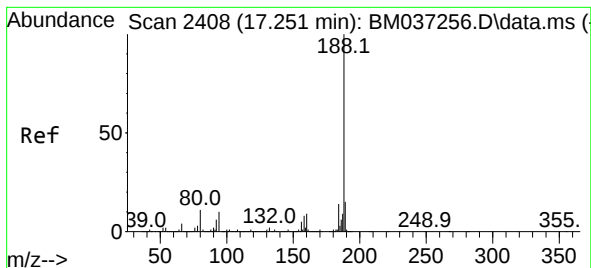


#49  
Acenaphthylene  
Concen: 2.215 ng  
RT: 14.174 min Scan# 1885  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57



Tgt Ion:152 Resp: 120607  
Ion Ratio Lower Upper  
152 100  
151 19.6 16.0 24.0  
153 14.0 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.192 min Scan# 2408

Delta R.T. -0.012 min

Lab File: BM037451.D

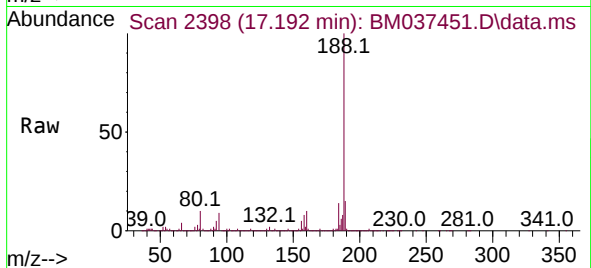
Acq: 10 Nov 2022 14:57

Instrument :

BNA\_M

ClientSampleId :

250FERRYBLVD-TFS-03DL



Tgt Ion:188 Resp: 116925

Ion Ratio Lower Upper

188 100

94 9.4 7.9 11.9

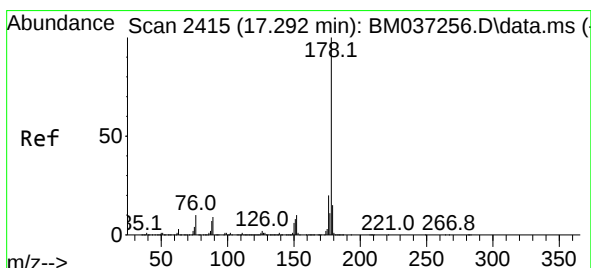
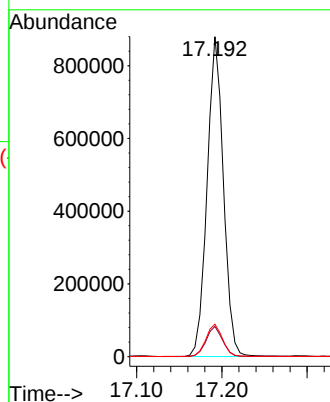
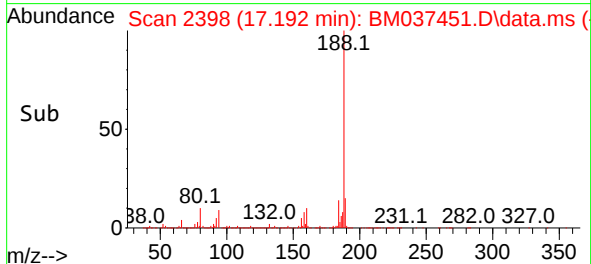
80 10.1 8.5 12.7

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Reviewed By :Christian Giraldo 11/11/2022

Supervised By :Jagrut Upadhyay 11/11/2022



#71

Phenanthrene

Concen: 12.580 ng

RT: 17.233 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BM037451.D

Acq: 10 Nov 2022 14:57

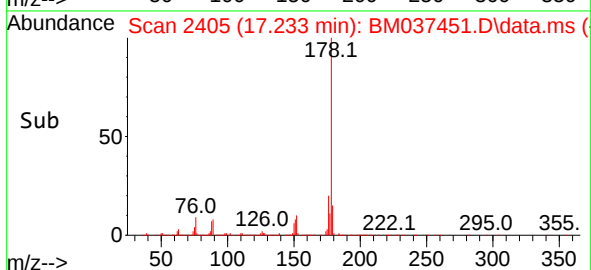
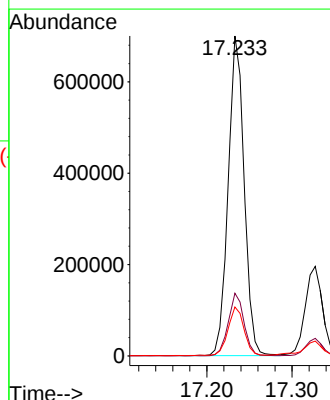
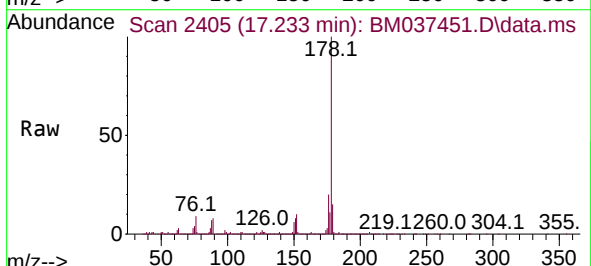
Tgt Ion:178 Resp: 912556

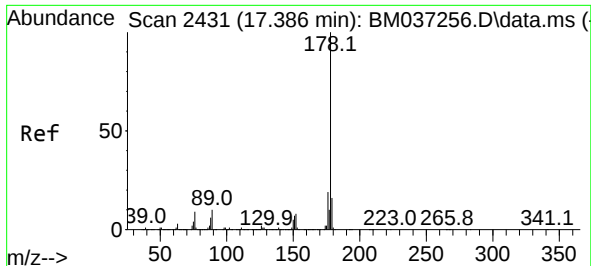
Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

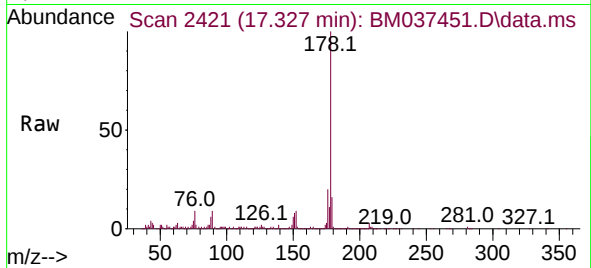
179 15.3 12.4 18.6





#72  
 Anthracene  
 Concen: 3.914 ng  
 RT: 17.327 min Scan# 24  
 Delta R.T. -0.012 min  
 Lab File: BM037451.D  
 Acq: 10 Nov 2022 14:57

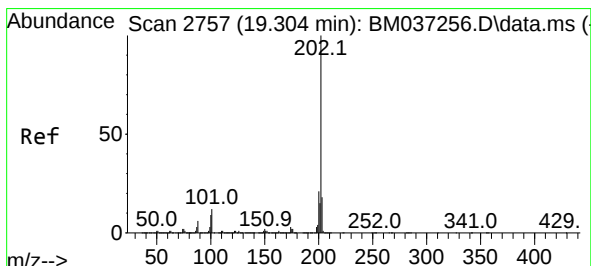
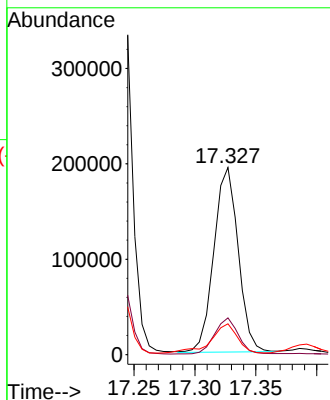
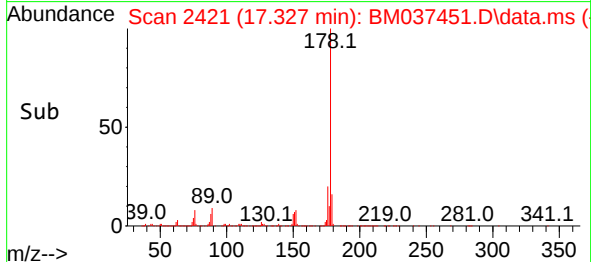
Instrument :  
 BNA\_M  
 ClientSampleId :  
 250FERRYBLVD-TFS-03DL



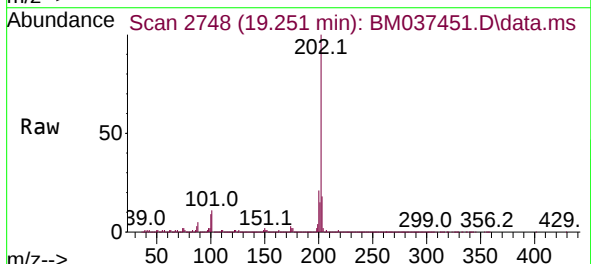
Tgt Ion:178 Resp: 268762  
 Ion Ratio Lower Upper  
 178 100  
 176 19.6 15.4 23.0  
 179 16.5 12.6 19.0

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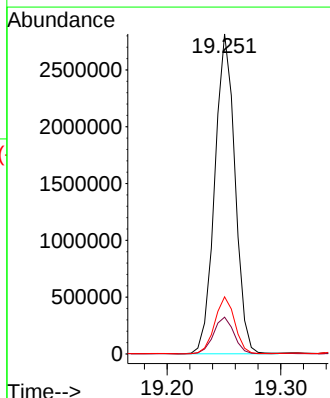
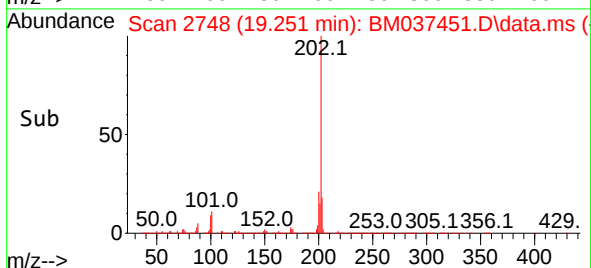
Reviewed By :Christian Giraldo 11/11/2022  
 Supervised By :Jagrut Upadhyay 11/11/2022

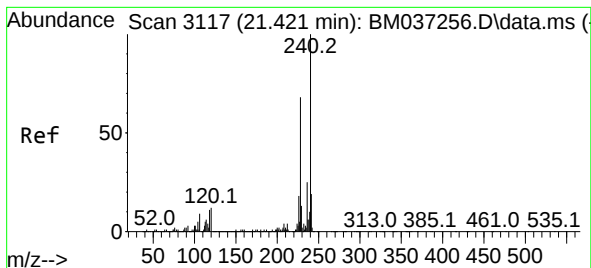


#75  
 Fluoranthene  
 Concen: 45.419 ng  
 RT: 19.251 min Scan# 2748  
 Delta R.T. -0.012 min  
 Lab File: BM037451.D  
 Acq: 10 Nov 2022 14:57



Tgt Ion:202 Resp: 3482821  
 Ion Ratio Lower Upper  
 202 100  
 101 11.5 0.0 32.4  
 203 17.8 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.374 min Scan# 3117

Delta R.T. -0.006 min

Lab File: BM037451.D

Acq: 10 Nov 2022 14:57

Instrument :

BNA\_M

ClientSampleId :

250FERRYBLVD-TFS-03DL

Tgt Ion:240 Resp: 1252458

Ion Ratio Lower Upper

240 100

120 11.5 9.9 14.9

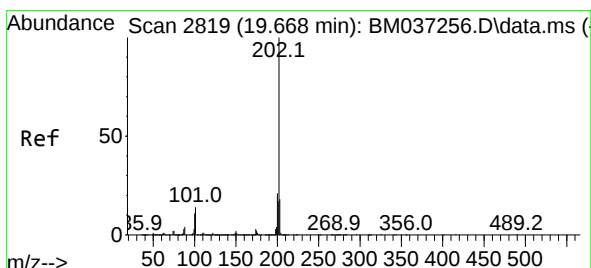
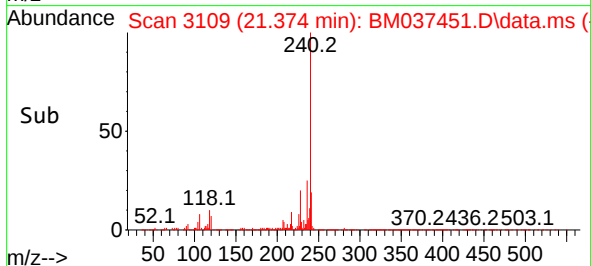
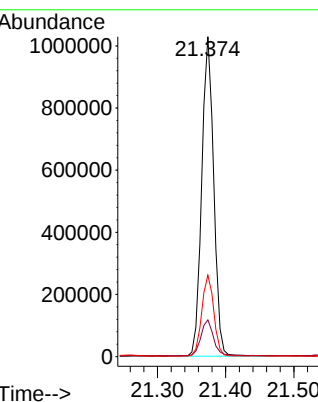
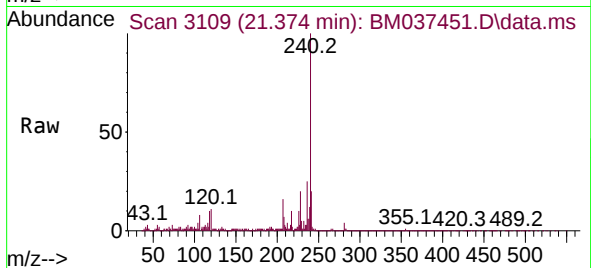
236 25.5 20.3 30.5

Manual Integrations

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Reviewed By :Christian Giraldo 11/11/2022

Supervised By :Jagrut Upadhyay 11/11/2022



#78

Pyrene

Concen: 36.490 ng

RT: 19.615 min Scan# 2810

Delta R.T. -0.006 min

Lab File: BM037451.D

Acq: 10 Nov 2022 14:57

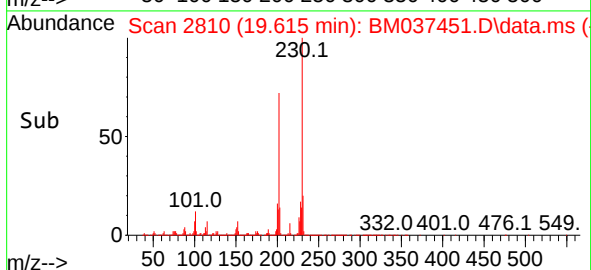
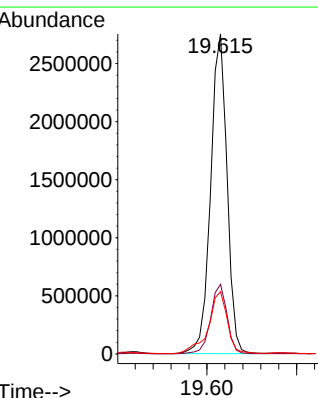
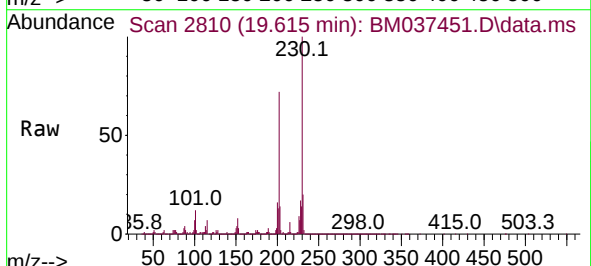
Tgt Ion:202 Resp: 3514330

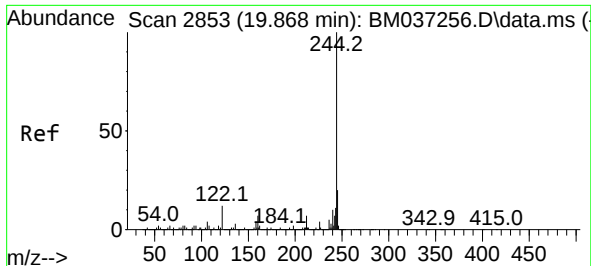
Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.6

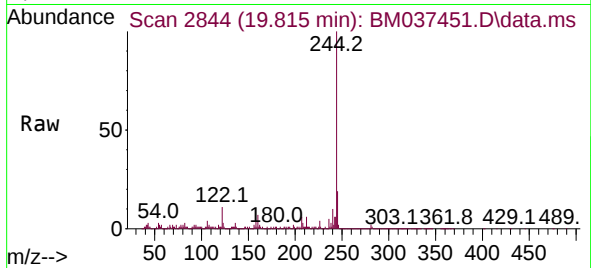
203 19.4 14.1 21.1





#79  
Terphenyl-d14  
Concen: 10.945 ng  
RT: 19.815 min Scan# 2853  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

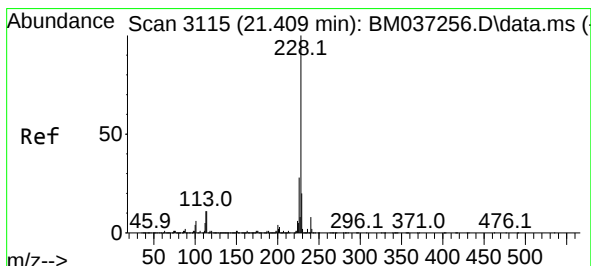
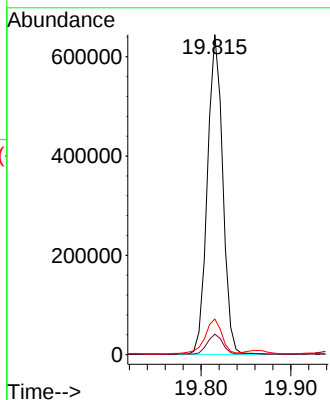
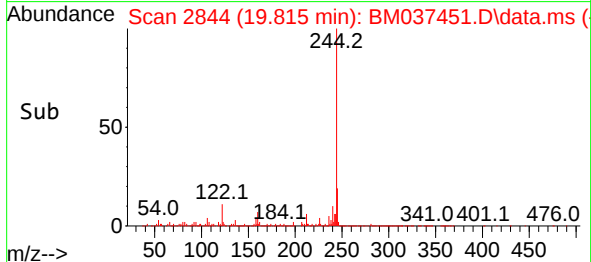
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



Tgt Ion:244 Resp: 764399  
Ion Ratio Lower Upper  
244 100  
212 6.4 5.4 8.2  
122 11.1 9.4 14.2

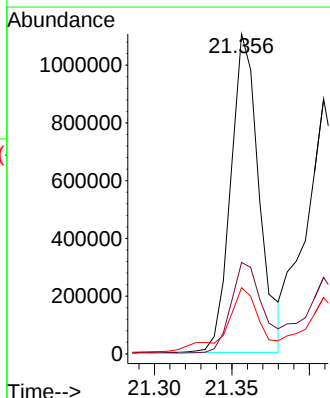
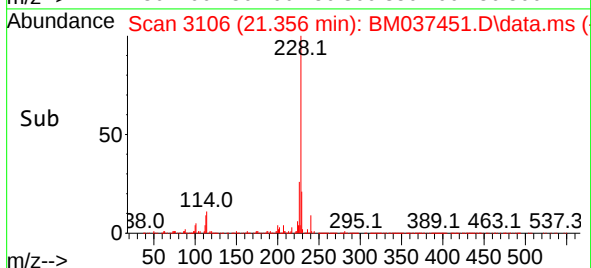
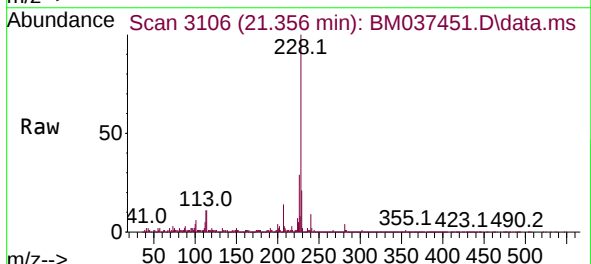
Manual Integrations  
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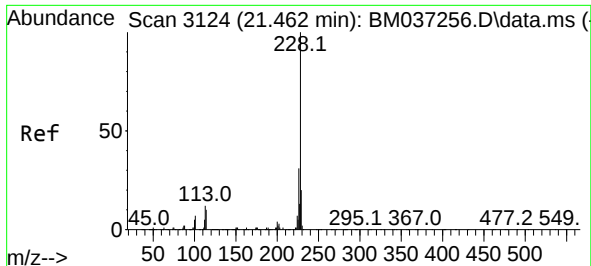
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#81  
Benzo(a)anthracene  
Concen: 15.747 ng  
RT: 21.356 min Scan# 3106  
Delta R.T. -0.006 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

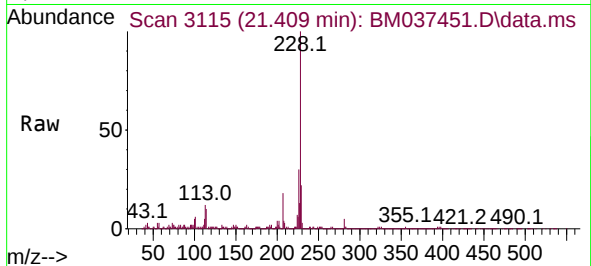
Tgt Ion:228 Resp: 1404144  
Ion Ratio Lower Upper  
228 100  
226 28.6 22.3 33.5  
229 20.7 16.2 24.2





#83  
Chrysene  
Concen: 14.974 ng  
RT: 21.409 min Scan# 3124  
Delta R.T. -0.006 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

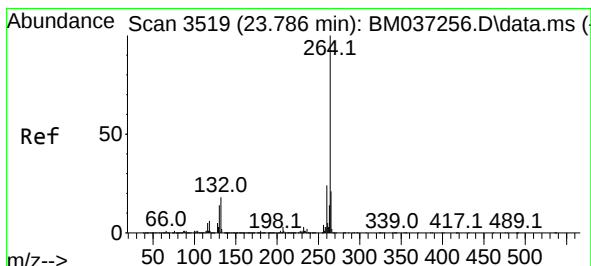
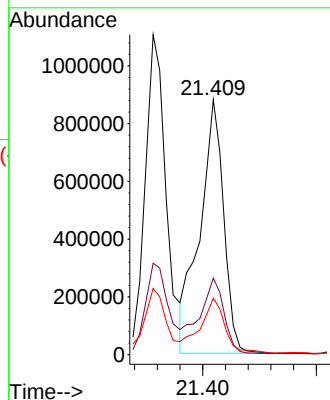
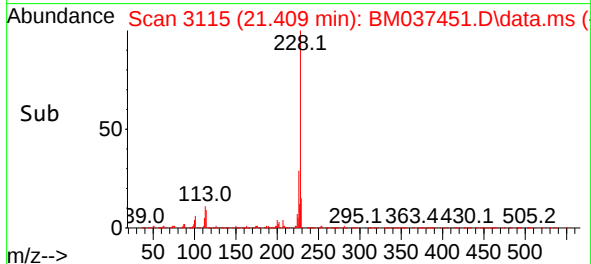
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



Tgt Ion:228 Resp: 1286329  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.4 36.6  
229 22.1 16.0 24.0

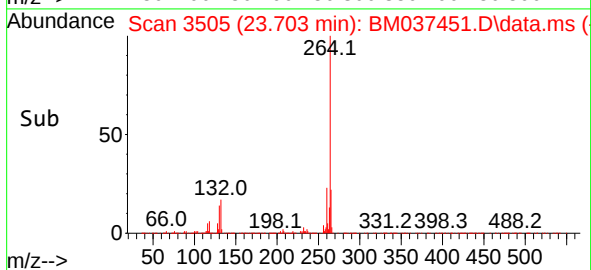
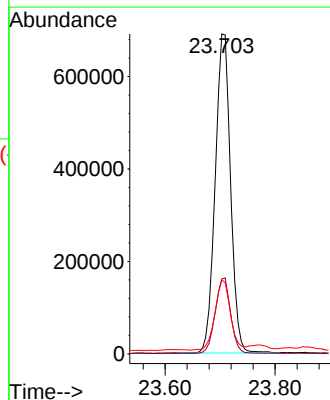
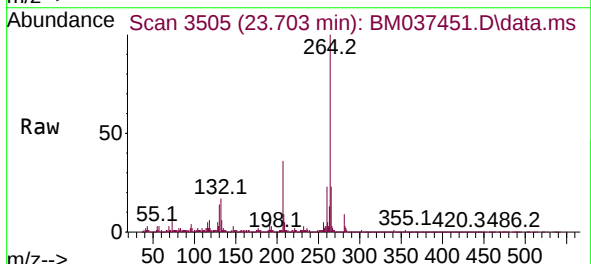
Manual Integrations  
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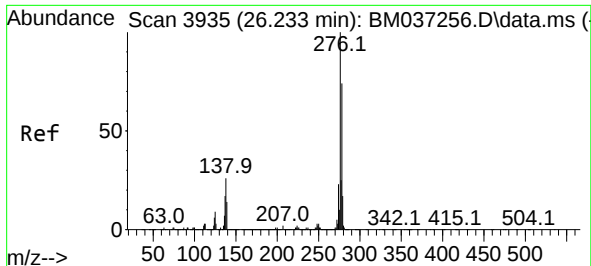
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.703 min Scan# 3505  
Delta R.T. -0.006 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

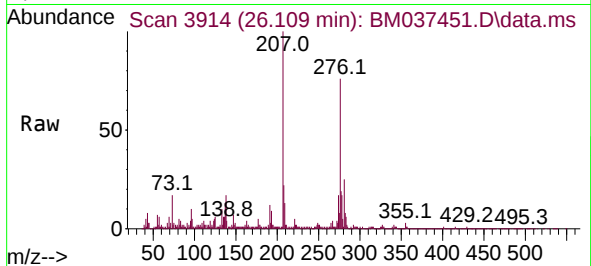
Tgt Ion:264 Resp: 1338787  
Ion Ratio Lower Upper  
264 100  
260 23.4 18.9 28.3  
265 23.1 17.7 26.5





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.018 ng  
RT: 26.109 min Scan# 3935  
Delta R.T. -0.024 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

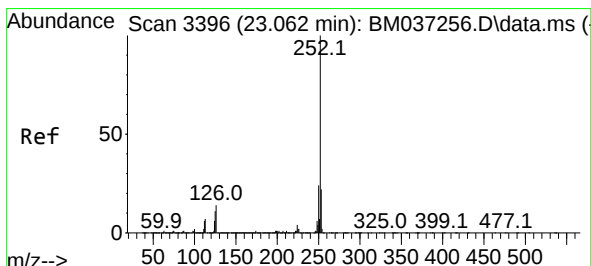
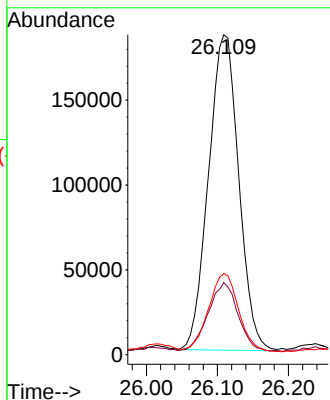
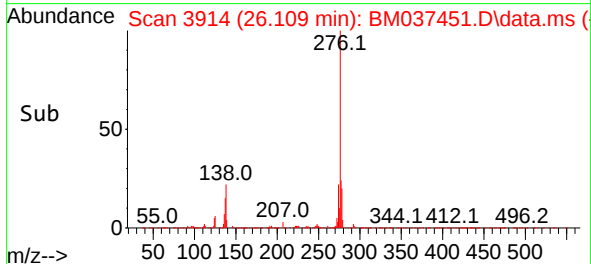
Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL



Tgt Ion: 276 Resp: 550040  
Ion Ratio Lower Upper  
276 100  
138 21.8 21.5 32.3  
277 24.7 20.1 30.1

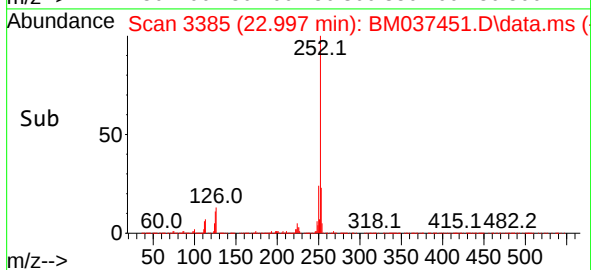
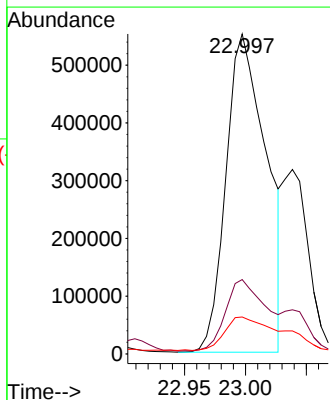
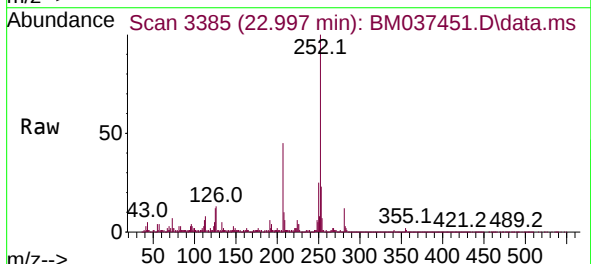
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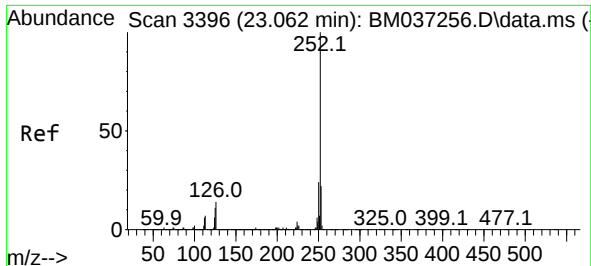
Reviewed By : Christian Giraldo 11/11/2022  
Supervised By : Jagrut Upadhyay 11/11/2022



#88  
Benzo(b)fluoranthene  
Concen: 13.658 ng  
RT: 22.997 min Scan# 3385  
Delta R.T. -0.006 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

Tgt Ion: 252 Resp: 1269444  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.8 26.6  
125 11.6 9.1 13.7





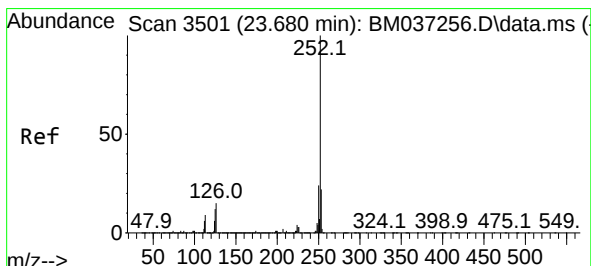
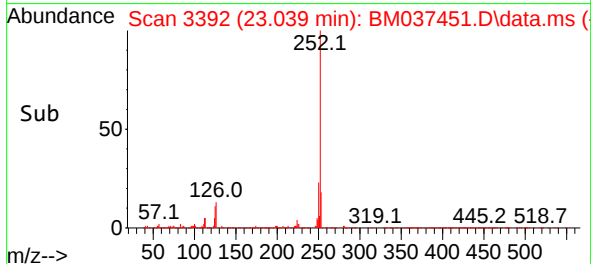
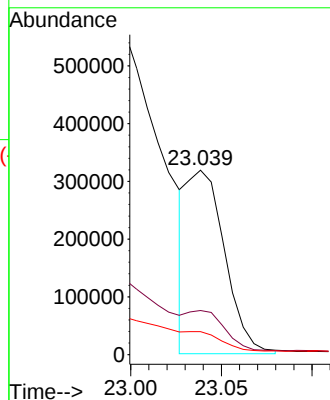
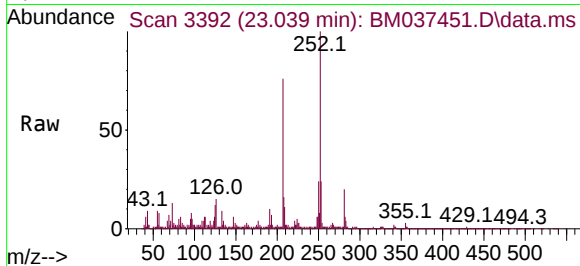
#89  
Benzo(k)fluoranthene  
Concen: 4.847 ng m  
RT: 23.039 min Scan# 3396  
Delta R.T. -0.012 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

Instrument :  
BNA\_M  
ClientSampleId :  
250FERRYBLVD-TFS-03DL

Tgt Ion:252 Resp: 459513  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.6  
125 12.5 9.1 13.7

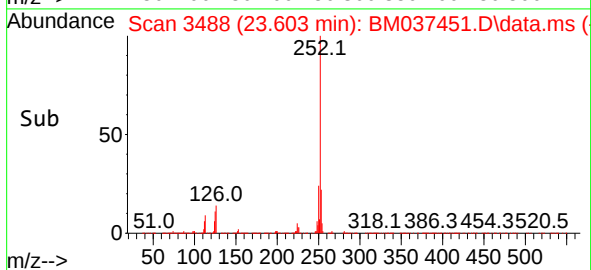
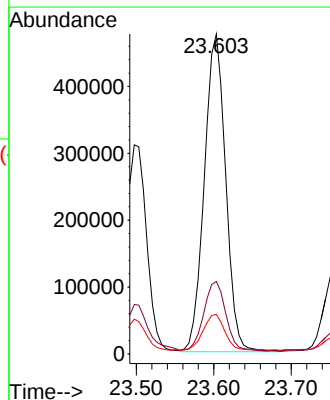
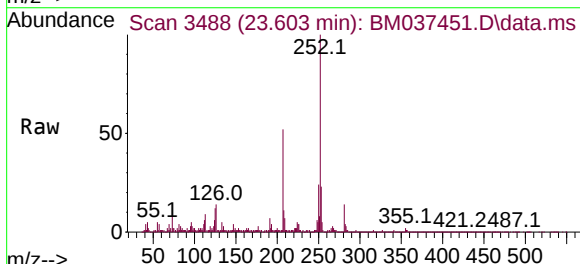
Manual Integrations  
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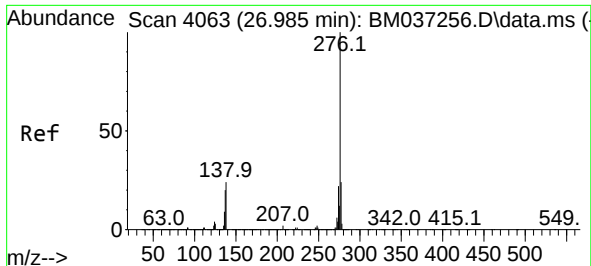
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#90  
Benzo(a)pyrene  
Concen: 12.026 ng  
RT: 23.603 min Scan# 3488  
Delta R.T. -0.006 min  
Lab File: BM037451.D  
Acq: 10 Nov 2022 14:57

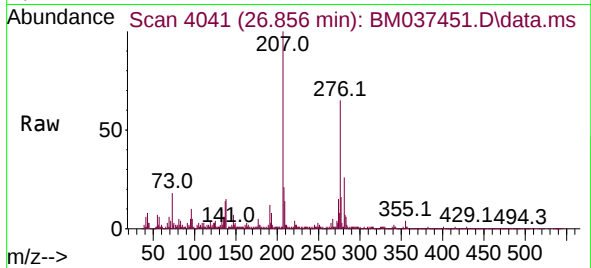
Tgt Ion:252 Resp: 910711  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.4 26.2  
125 12.3 9.9 14.9





#92  
 Benzo(g,h,i)perylene  
 Concen: 5.889 ng  
 RT: 26.856 min Scan# 40  
 Delta R.T. -0.024 min  
 Lab File: BM037451.D  
 Acq: 10 Nov 2022 14:57

Instrument :  
 BNA\_M  
 ClientSampleId :  
 250FERRYBLVD-TFS-03DL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 521779 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.5  | 19.4  | 29.2   |
| 138       | 23.1  | 18.9  | 28.3   |

Manual Integrations  
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Reviewed By :Christian Giraldo 11/11/2022  
 Supervised By :Jagrut Upadhyay 11/11/2022

