

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM052422\  
 Data File : BM035233.D  
 Acq On : 24 May 2022 23:34  
 Operator : CG/JU  
 Sample : N2981-11  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-10(0.5-1)

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/25/2022  
 Supervised By : Jagrut Upadhyay 05/25/2022

Quant Time: May 25 05:45:11 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM042722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 20 04:53:59 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.898  | 152  | 140751   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.698 | 136  | 530563   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.533 | 164  | 324287   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10          | 17.280 | 188  | 704864   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.462 | 240  | 768742   | 20.000  | ng    | #-0.01   |
| 86) Perylene-d12              | 23.844 | 264  | 810578   | 20.000  | ng    | -0.01    |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.481  | 112  | 781578   | 97.966  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.069  | 99   | 946022   | 91.853  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.057  | 82   | 629737   | 64.096  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.021 | 330  | 401772   | 113.894 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 13.163 | 172  | 1467795  | 65.706  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.903 | 244  | 2350139  | 59.192  | ng    | -0.01    |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene              | 17.321 | 178  | 170055   | 4.329   | ng    | 99       |
| 75) Fluoranthene              | 19.339 | 202  | 408956   | 9.481   | ng    | 98       |
| 78) Pyrene                    | 19.698 | 202  | 373073   | 7.339   | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.445 | 228  | 274722   | 5.356   | ng    | 98       |
| 83) Chrysene                  | 21.497 | 228  | 254576   | 5.196   | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 21.380 | 149  | 73043    | 2.129   | ng    | # 98     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.303 | 276  | 187459   | 3.042   | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 23.121 | 252  | 361781m  | 7.096   | ng    |          |
| 89) Benzo(k)fluoranthene      | 23.162 | 252  | 129953m  | 2.518   | ng    |          |
| 90) Benzo(a)pyrene            | 23.738 | 252  | 256657   | 6.060   | ng    | 96       |
| 92) Benzo(g,h,i)perylene      | 27.062 | 276  | 175374   | 3.531   | ng    | 97       |
| -----                         |        |      |          |         |       |          |

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

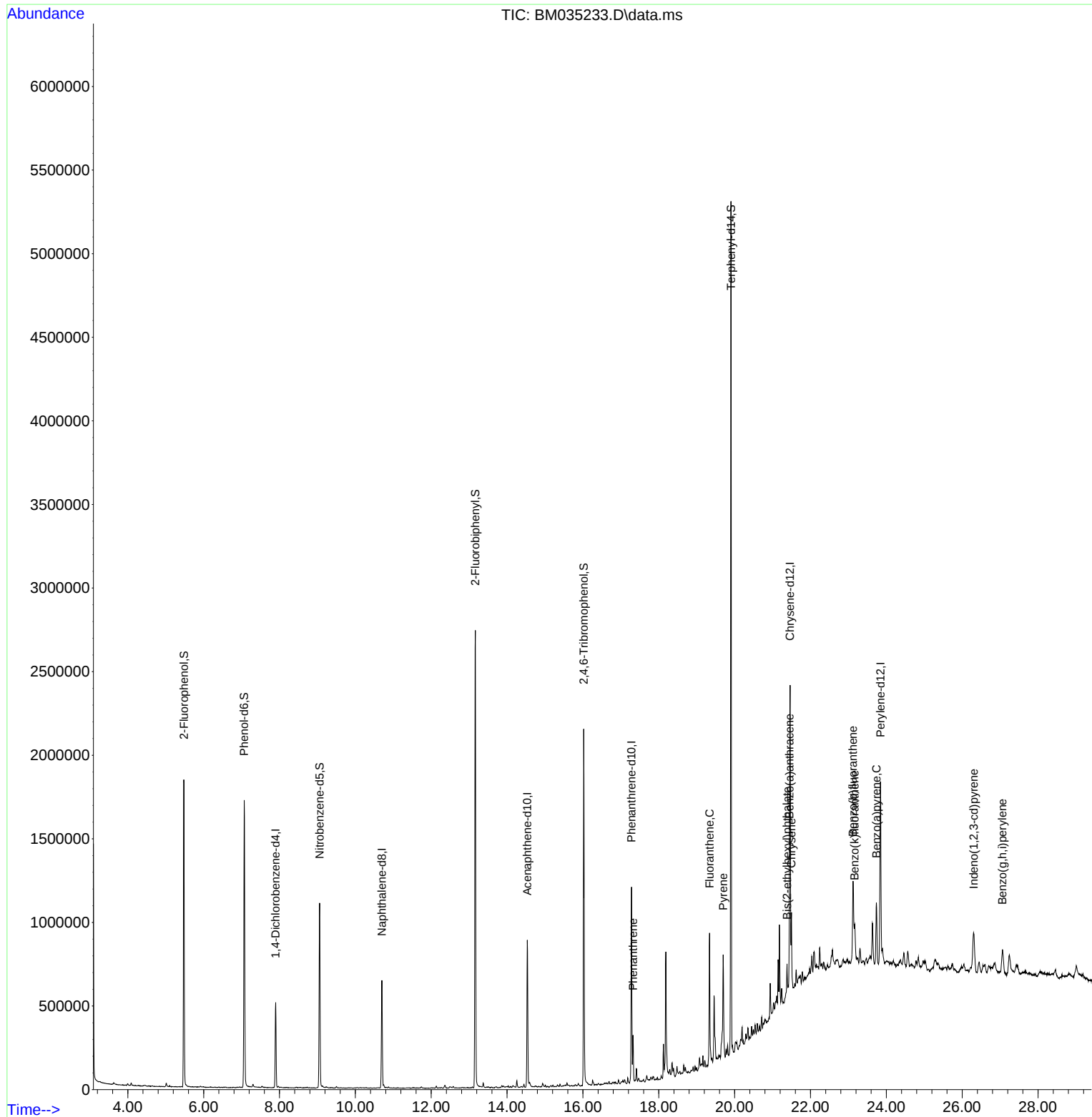
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM052422\  
Data File : BM035233.D  
Acq On : 24 May 2022 23:34  
Operator : CG/JU  
Sample : N2981-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

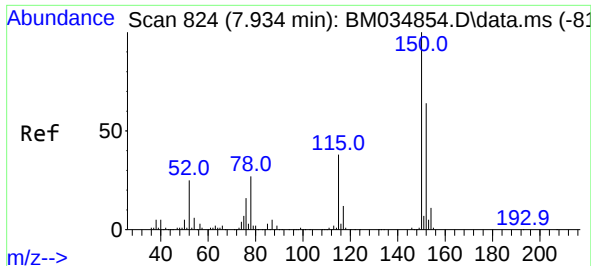
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)

Quant Time: May 25 05:45:11 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM042722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 20 04:53:59 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

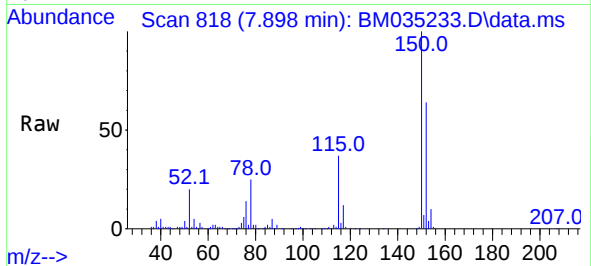
Reviewed By : Christian Giraldo 05/25/2022  
Supervised By : Jagrut Upadhyay 05/25/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.898 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

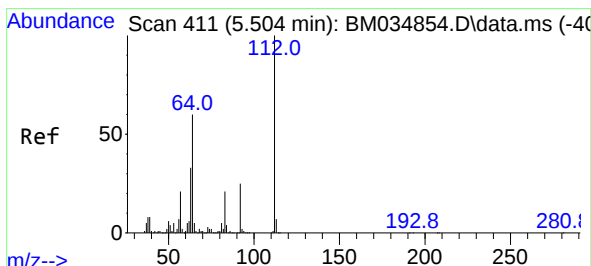
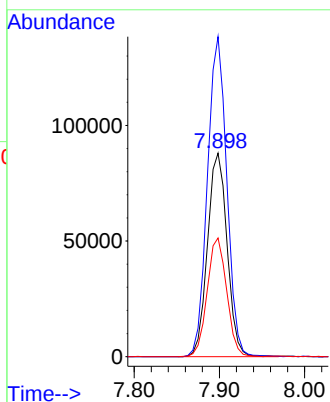
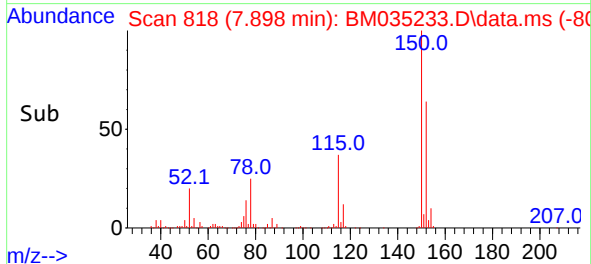
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



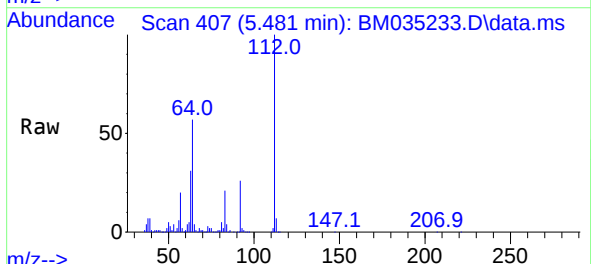
Tgt Ion:152 Resp: 14075  
Ion Ratio Lower Upper  
152 100  
150 157.2 124.9 187.3  
115 58.4 47.9 71.9

Manual Integrations  
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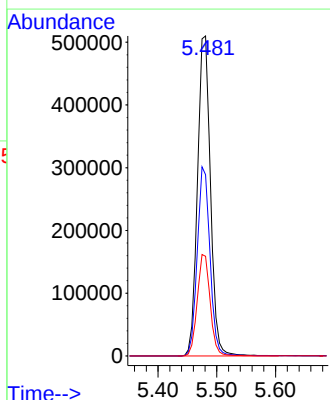
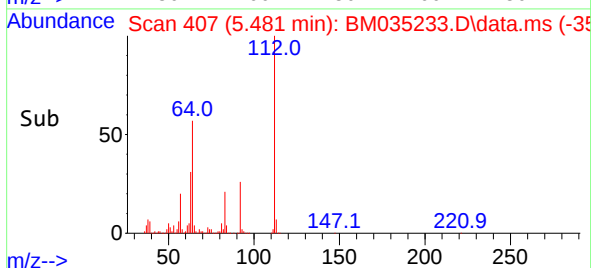
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022



#5  
2-Fluorophenol  
Concen: 97.966 ng  
RT: 5.481 min Scan# 407  
Delta R.T. -0.000 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34



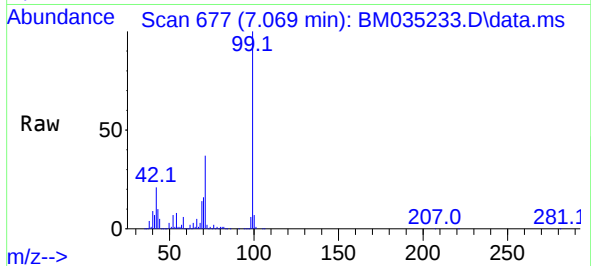
Tgt Ion:112 Resp: 781578  
Ion Ratio Lower Upper  
112 100  
64 56.7 47.8 71.6  
63 31.1 26.6 40.0





#7  
Phenol-d6  
Concen: 91.853 ng  
RT: 7.069 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

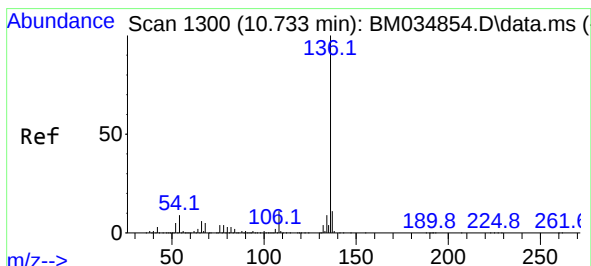
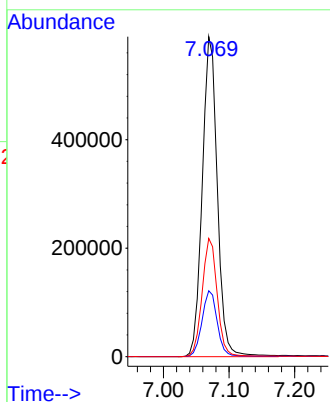
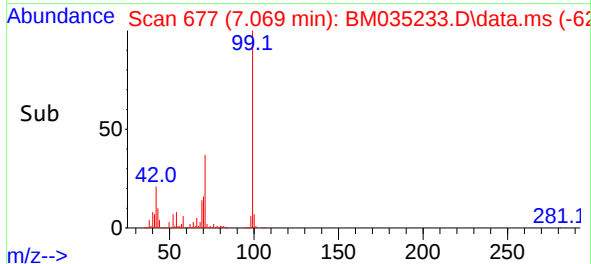
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



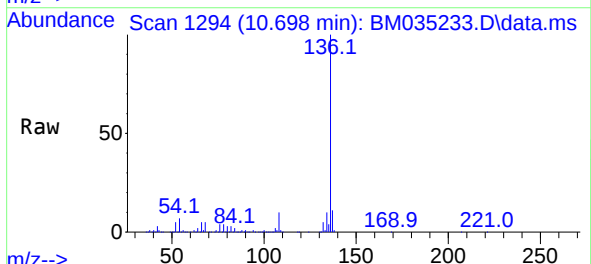
Tgt Ion: 99 Resp: 94602  
Ion Ratio Lower Upper  
99 100  
42 20.6 18.8 28.2  
71 37.0 30.2 45.2

Manual Integrations  
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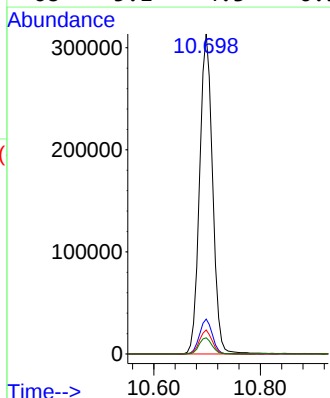
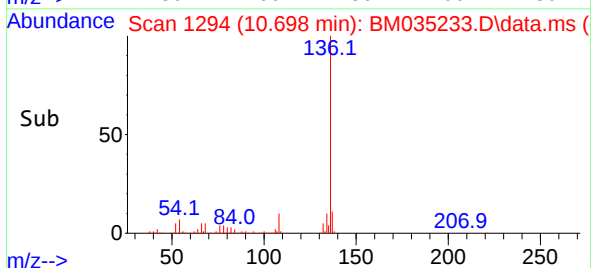
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.698 min Scan# 1294  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34



Tgt Ion:136 Resp: 530563  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 7.5 7.0 10.4  
68 5.1 4.3 6.5





#23

Nitrobenzene-d5

Concen: 64.096 ng

RT: 9.057 min Scan# 1015

Delta R.T. -0.006 min

Lab File: BM035233.D

Acq: 24 May 2022 23:34

Instrument :

BNA\_M

ClientSampleId :

SB-10(0.5-1)

Tgt Ion: 82 Resp: 62973

Ion Ratio Lower Upper

82 100

128 44.3 33.7 50.5

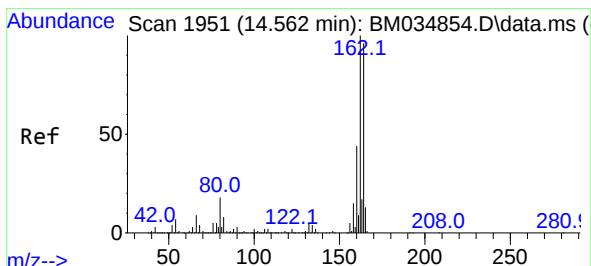
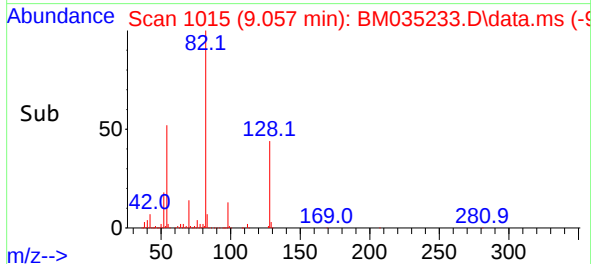
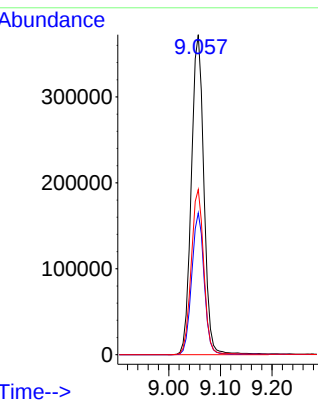
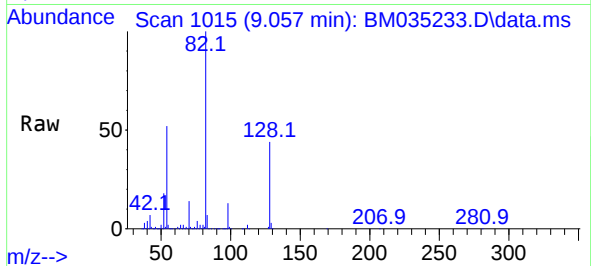
54 51.6 43.2 64.8

Manual Integrations

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Reviewed By :Christian Giraldo 05/25/2022

Supervised By :Jagrut Upadhyay 05/25/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.533 min Scan# 1946

Delta R.T. -0.012 min

Lab File: BM035233.D

Acq: 24 May 2022 23:34

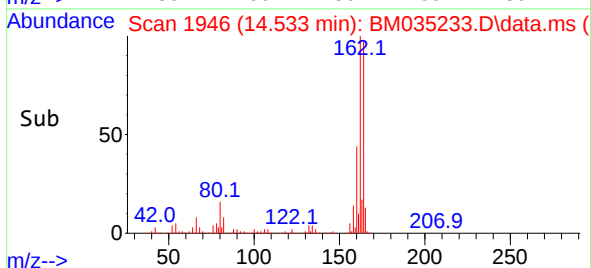
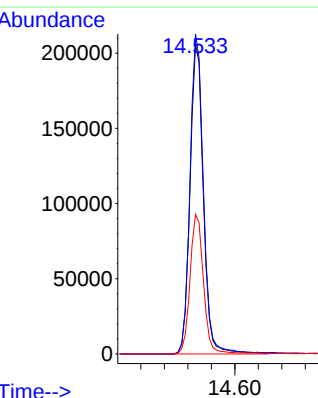
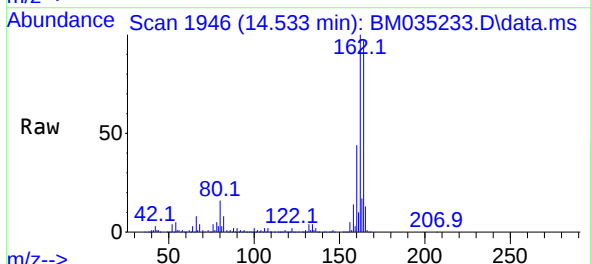
Tgt Ion:164 Resp: 324287

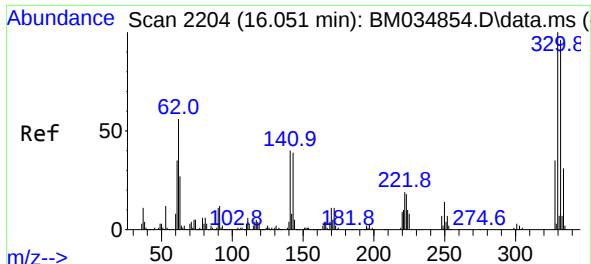
Ion Ratio Lower Upper

164 100

162 103.1 83.0 124.6

160 45.0 37.0 55.4





#42  
2,4,6-Tribromophenol  
Concen: 113.894 ng  
RT: 16.021 min Scan# 2119  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

Instrument :

BNA\_M

ClientSampleId :

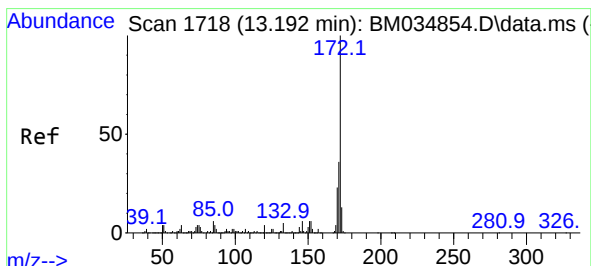
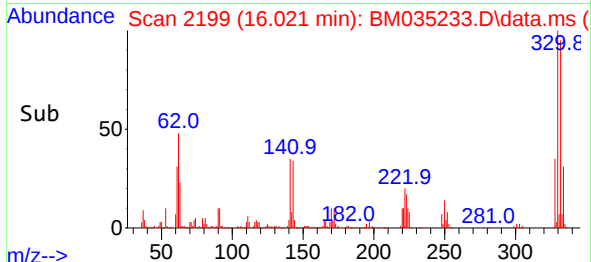
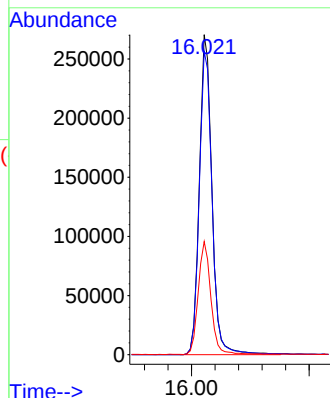
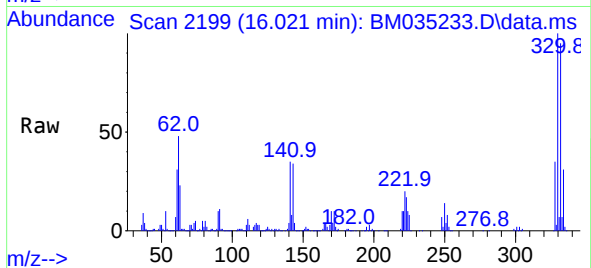
SB-10(0.5-1)

Tgt Ion:330 Resp: 401772  
Ion Ratio Lower Upper  
330 100  
332 96.9 77.0 115.4  
141 35.5 35.3 52.9

Manual Integrations

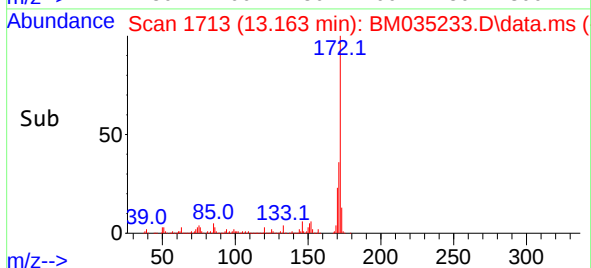
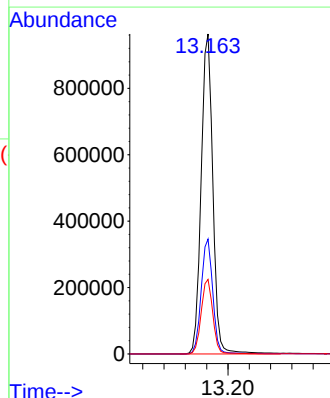
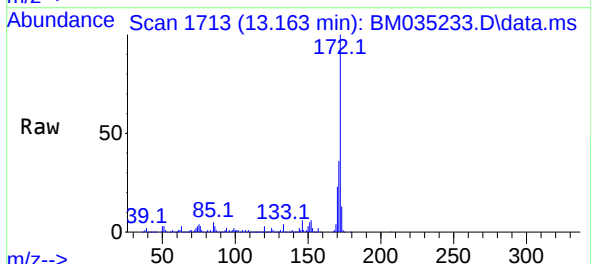
APPROVED

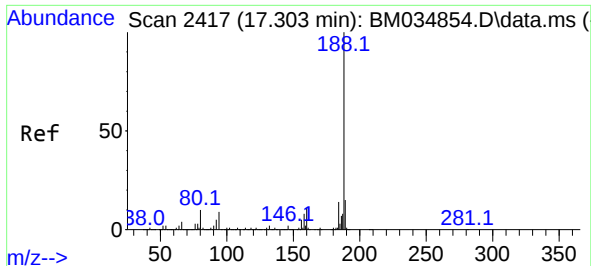
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022



#45  
2-Fluorobiphenyl  
Concen: 65.706 ng  
RT: 13.163 min Scan# 1713  
Delta R.T. -0.006 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

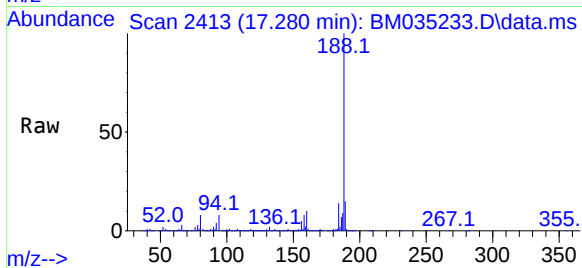
Tgt Ion:172 Resp: 1467795  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.5 42.7  
170 23.3 18.7 28.1





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.280 min Scan# 2417  
Delta R.T. -0.006 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

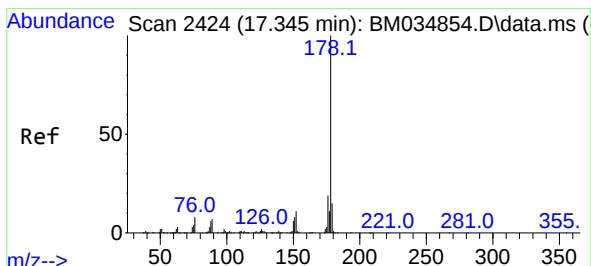
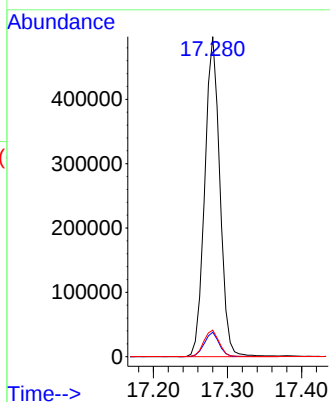
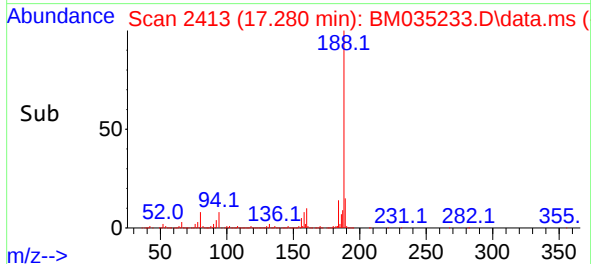
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



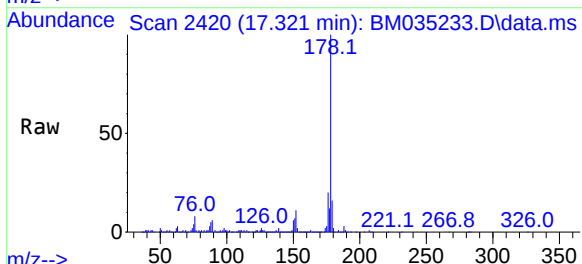
Tgt Ion:188 Resp: 704864  
Ion Ratio Lower Upper  
188 100  
94 7.7 7.0 10.4  
80 8.3 7.6 11.4

Manual Integrations  
APPROVED

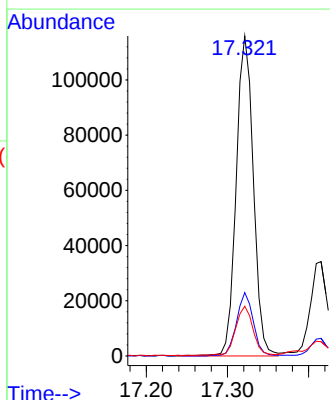
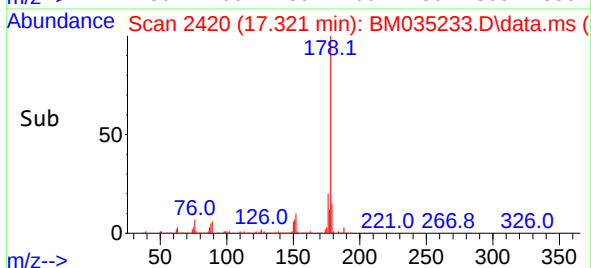
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022

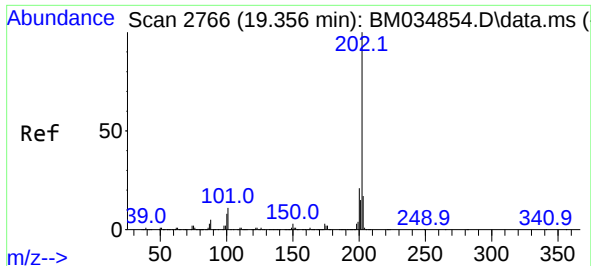


#71  
Phenanthrene  
Concen: 4.329 ng  
RT: 17.321 min Scan# 2420  
Delta R.T. -0.006 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34



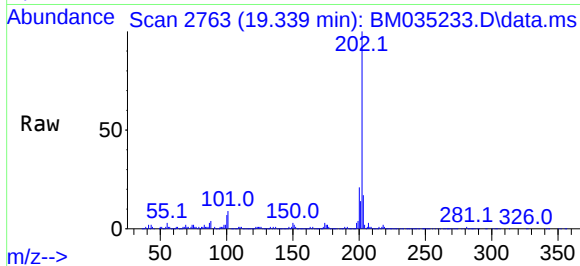
Tgt Ion:178 Resp: 170055  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.4 23.0  
179 15.5 12.4 18.6





#75  
Fluoranthene  
Concen: 9.481 ng  
RT: 19.339 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

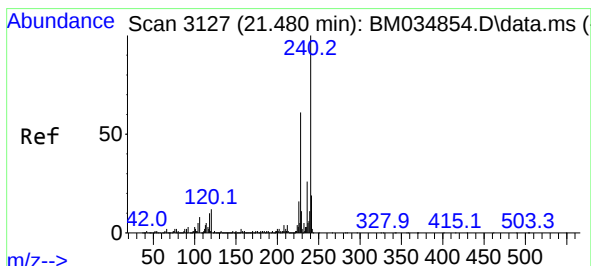
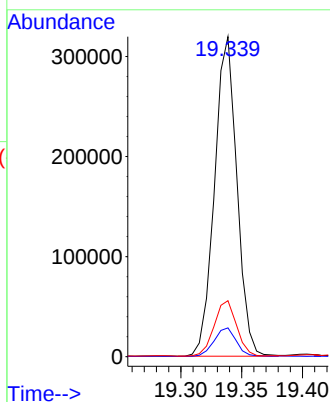
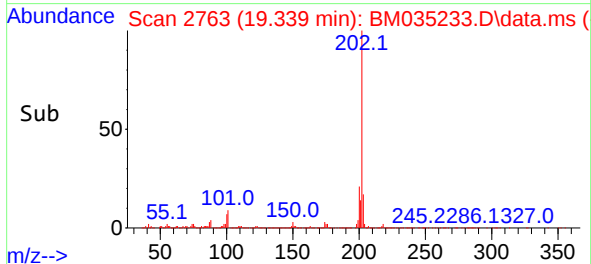
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



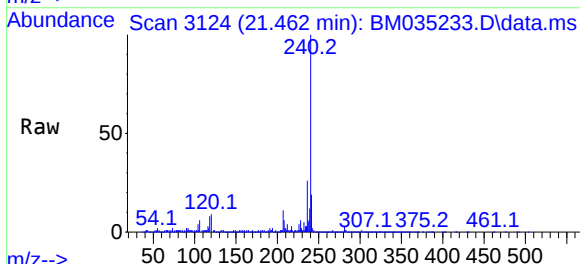
Tgt Ion:202 Resp: 408950  
Ion Ratio Lower Upper  
202 100  
101 9.0 0.0 30.6  
203 17.5 0.0 37.4

Manual Integrations  
APPROVED

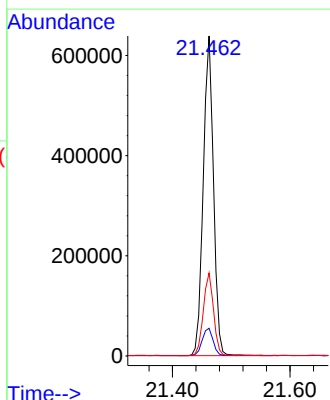
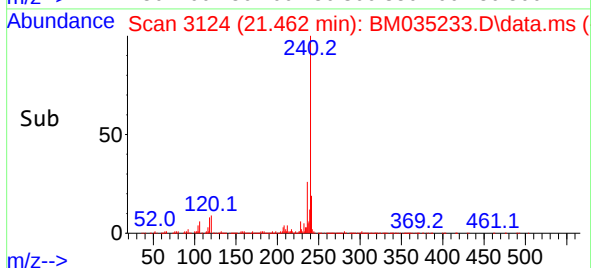
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022

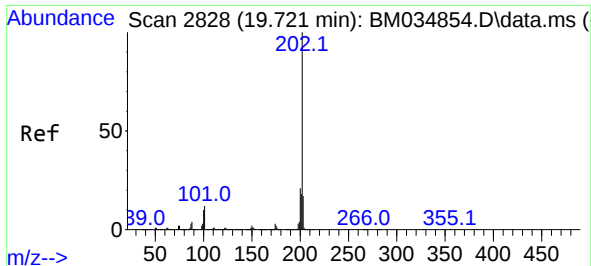


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.462 min Scan# 3124  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34



Tgt Ion:240 Resp: 768742  
Ion Ratio Lower Upper  
240 100  
120 8.7 9.4 14.0#  
236 25.9 20.6 30.8





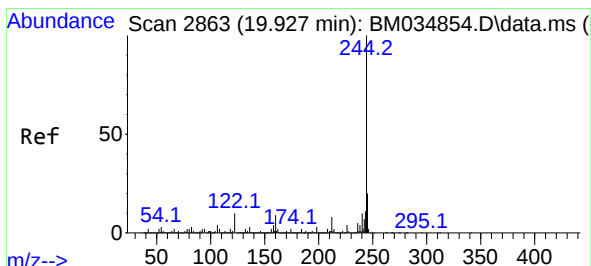
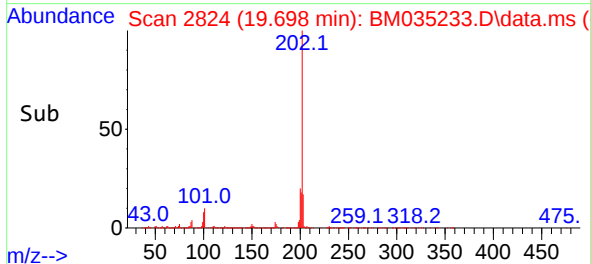
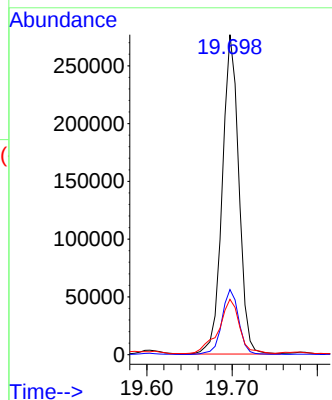
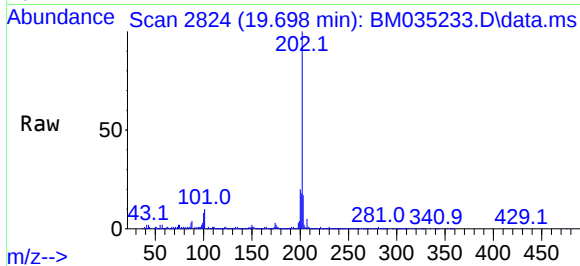
#78  
Pyrene  
Concen: 7.339 ng  
RT: 19.698 min Scan# 2824  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)

Tgt Ion:202 Resp: 37307  
Ion Ratio Lower Upper  
202 100  
200 20.4 16.7 25.1  
203 17.3 13.9 20.9

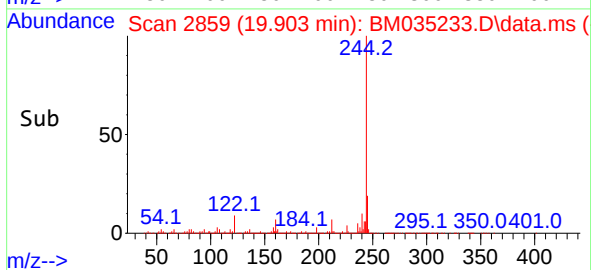
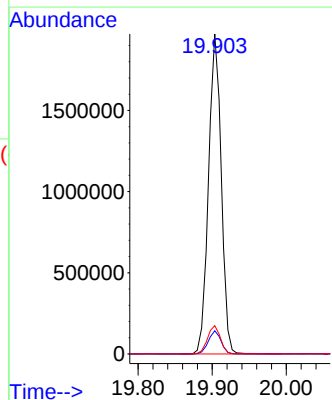
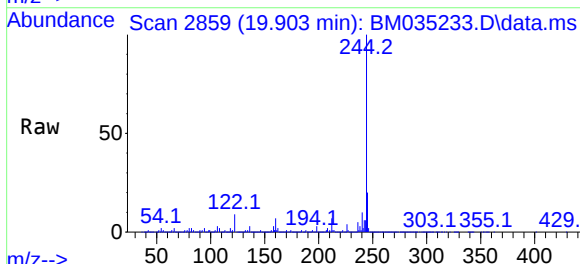
Manual Integrations  
APPROVED

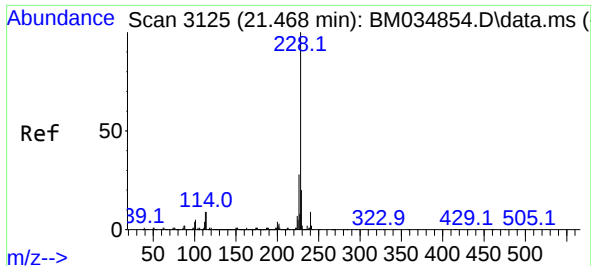
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022



#79  
Terphenyl-d14  
Concen: 59.192 ng  
RT: 19.903 min Scan# 2859  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

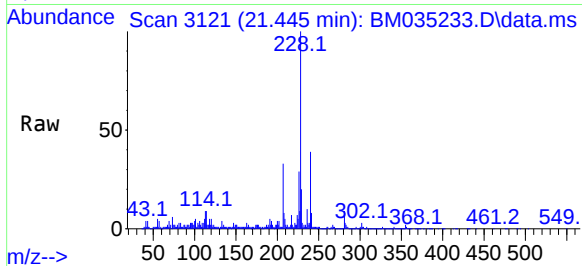
Tgt Ion:244 Resp: 2350139  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.2 9.4  
122 8.8 8.3 12.5





#81  
Benzo(a)anthracene  
Concen: 5.356 ng  
RT: 21.445 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

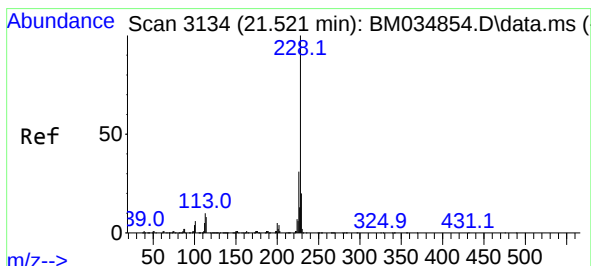
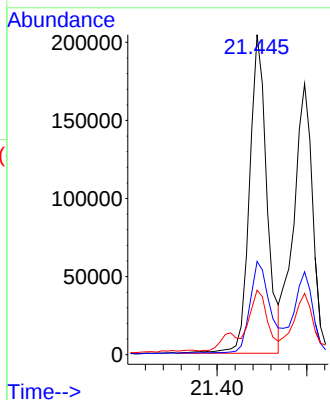
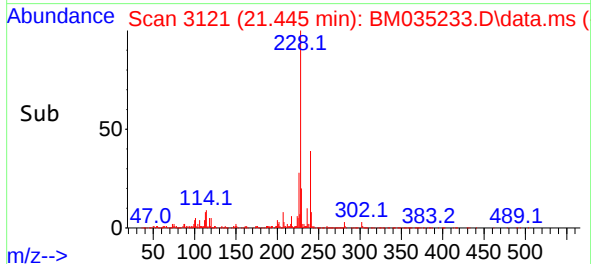
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



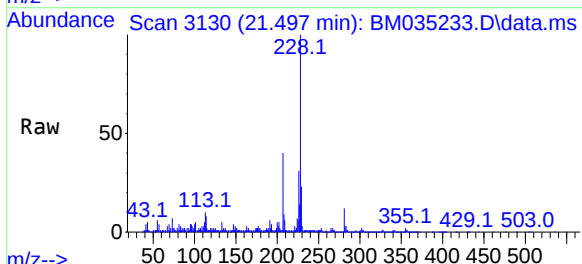
Tgt Ion:228 Resp: 27472  
Ion Ratio Lower Upper  
228 100  
226 29.1 22.3 33.5  
229 20.1 15.8 23.6

Manual Integrations  
APPROVED

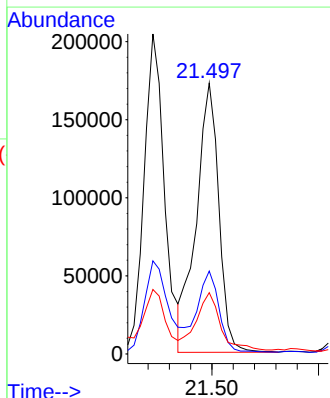
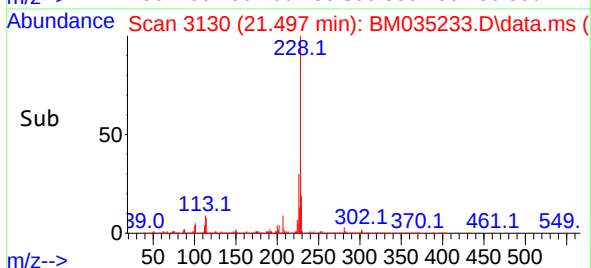
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022

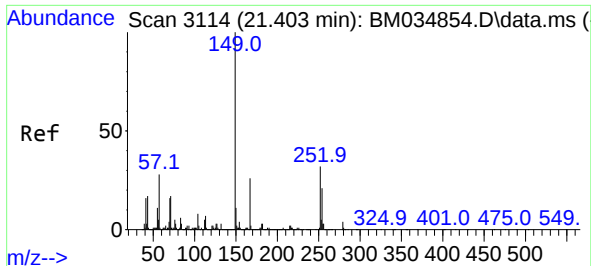


#83  
Chrysene  
Concen: 5.196 ng  
RT: 21.497 min Scan# 3130  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34



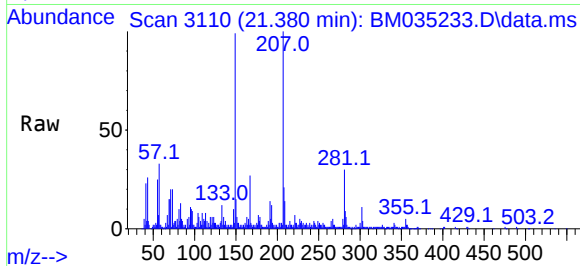
Tgt Ion:228 Resp: 254576  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.4 36.6  
229 22.6 15.8 23.8





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.129 ng  
RT: 21.380 min Scan# 3114  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

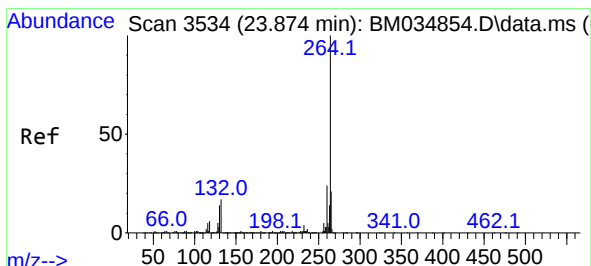
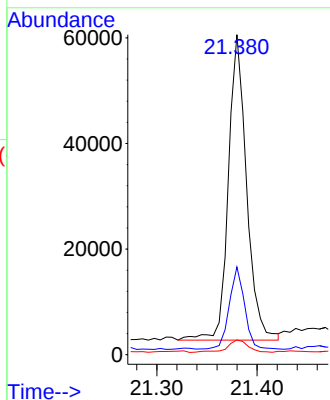
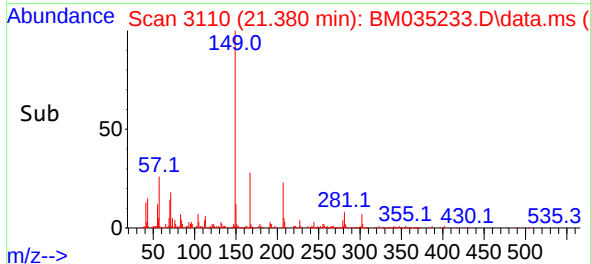
Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



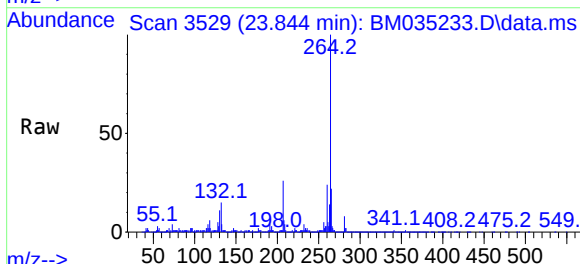
Tgt Ion:149 Resp: 7304  
Ion Ratio Lower Upper  
149 100  
167 27.4 21.1 31.7  
279 4.6 2.8 4.2

Manual Integrations  
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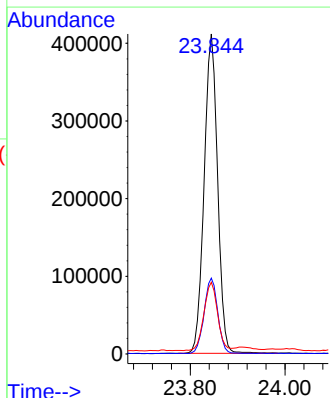
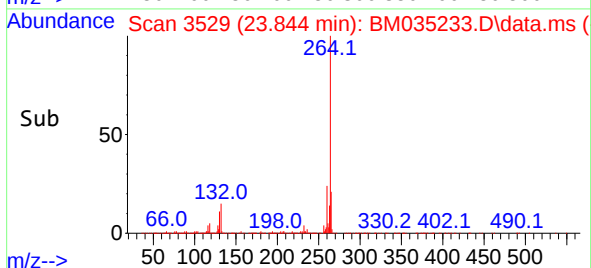
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022

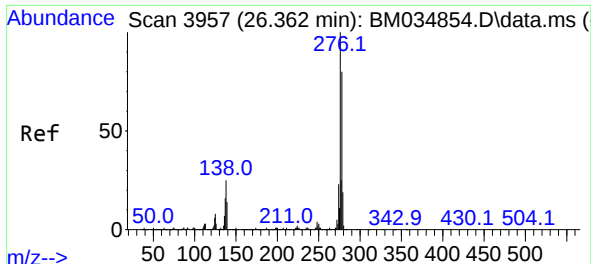


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.844 min Scan# 3529  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34



Tgt Ion:264 Resp: 810578  
Ion Ratio Lower Upper  
264 100  
260 23.7 18.9 28.3  
265 22.4 17.5 26.3





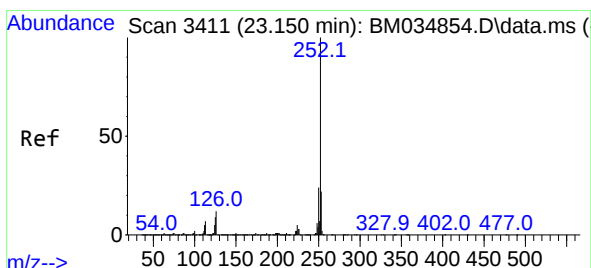
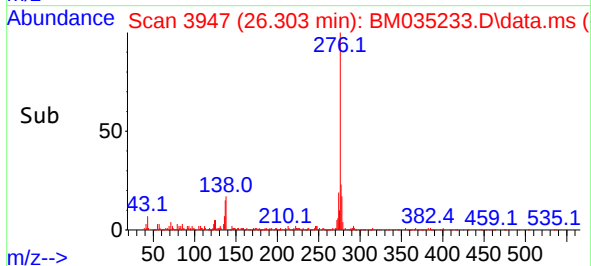
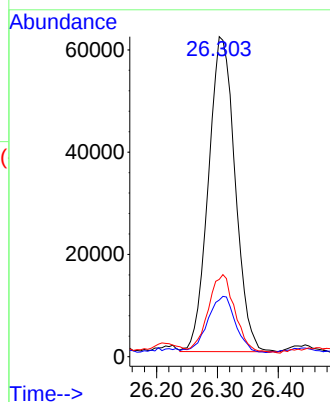
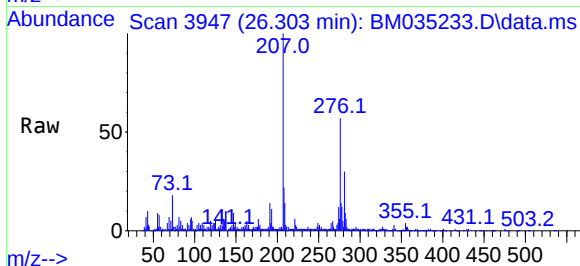
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.042 ng  
RT: 26.303 min Scan# 3406  
Delta R.T. -0.029 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)

Tgt Ion:276 Resp: 187459  
Ion Ratio Lower Upper  
276 100  
138 18.5 20.2 30.4  
277 25.5 20.2 30.2

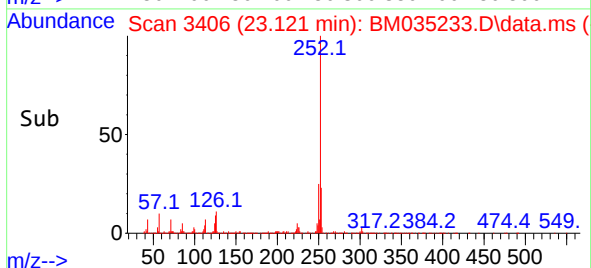
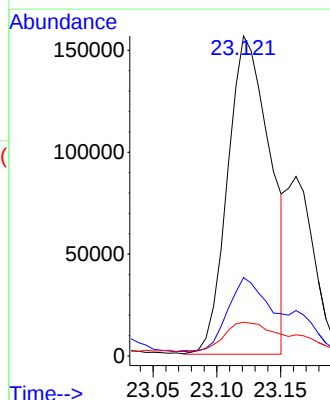
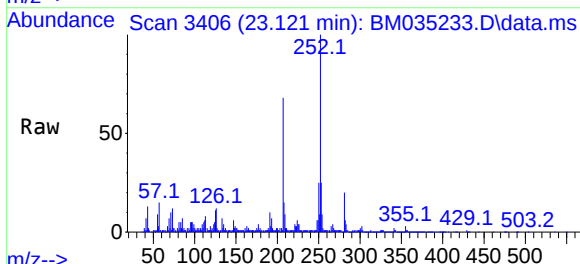
Manual Integrations  
APPROVED

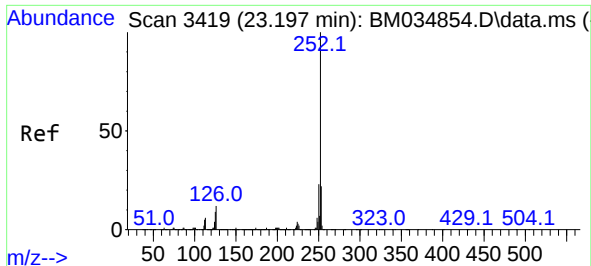
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022



#88  
Benzo(b)fluoranthene  
Concen: 7.096 ng m  
RT: 23.121 min Scan# 3406  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

Tgt Ion:252 Resp: 361781  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.6 26.4  
125 10.5 7.6 11.4





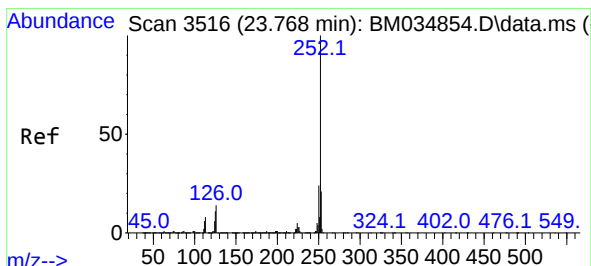
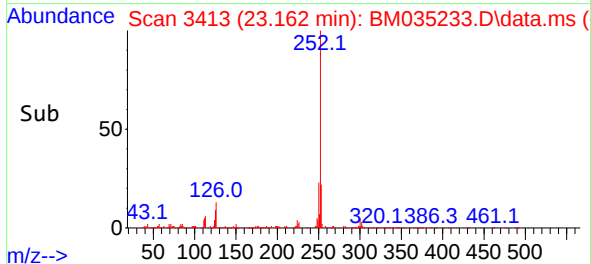
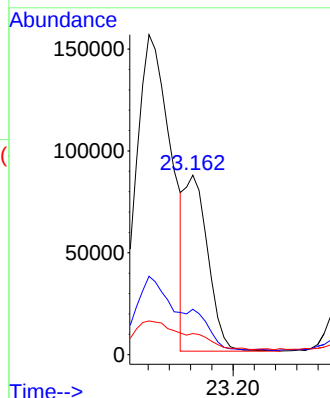
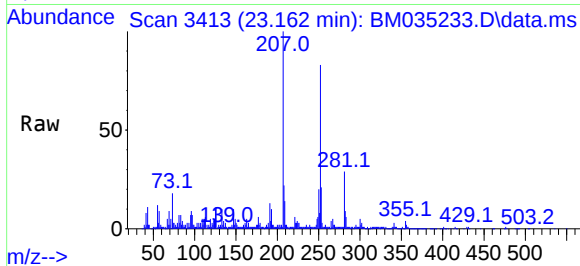
#89  
Benzo(k)fluoranthene  
Concen: 2.518 ng m  
RT: 23.162 min Scan# 3419  
Delta R.T. -0.018 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)

Tgt Ion:252 Resp: 12995  
Ion Ratio Lower Upper  
252 100  
253 25.3 17.5 26.3  
125 11.8 7.6 11.4

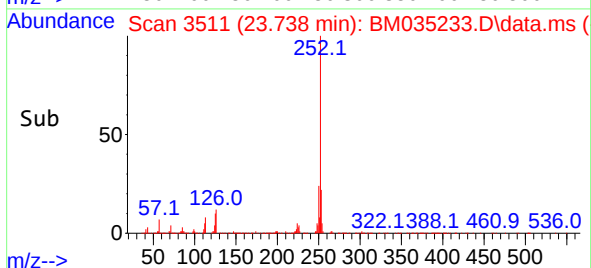
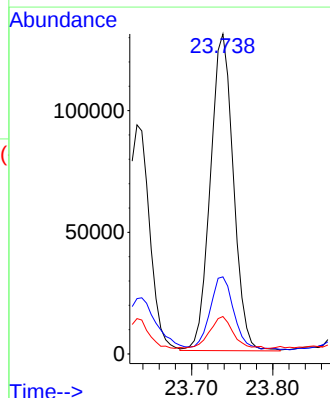
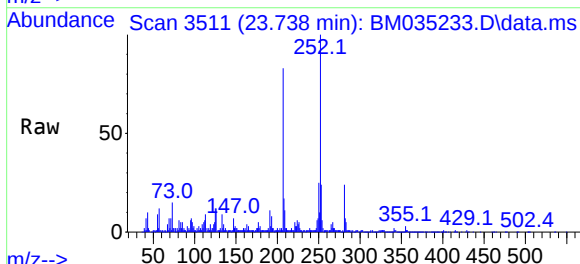
Manual Integrations  
APPROVED

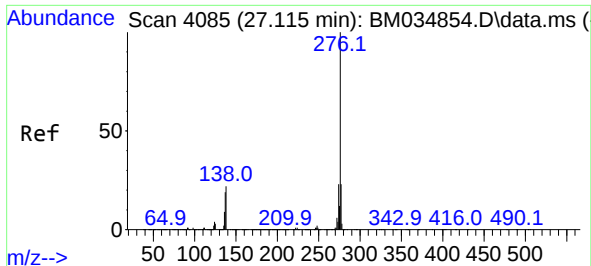
Reviewed By :Christian Giraldo 05/25/2022  
Supervised By :Jagrut Upadhyay 05/25/2022



#90  
Benzo(a)pyrene  
Concen: 6.060 ng  
RT: 23.738 min Scan# 3511  
Delta R.T. -0.012 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

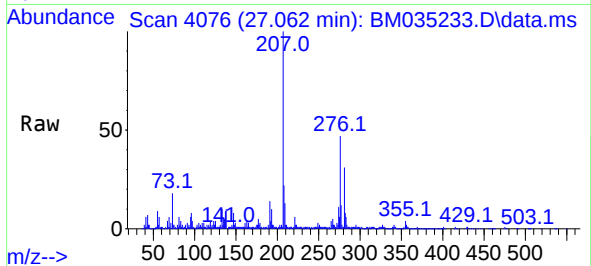
Tgt Ion:252 Resp: 256657  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.2 25.8  
125 11.7 8.7 13.1





#92  
Benzo(g,h,i)perylene  
Concen: 3.531 ng  
RT: 27.062 min Scan# 40  
Delta R.T. -0.029 min  
Lab File: BM035233.D  
Acq: 24 May 2022 23:34

Instrument :  
BNA\_M  
ClientSampleId :  
SB-10(0.5-1)



Tgt Ion: 276 Resp: 175374  
Ion Ratio Lower Upper  
276 100  
277 26.1 18.7 28.1  
138 21.6 17.6 26.4

Manual Integrations  
APPROVED

Reviewed By : Christian Giraldo 05/25/2022  
Supervised By : Jagrut Upadhyay 05/25/2022

