

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012821\  
 Data File : BM028593.D  
 Acq On : 28 Jan 2021 18:33  
 Operator : CG/JU  
 Sample : M1254-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CRT-5

Manual Integrations  
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1/29/2021 10:34:14 AM

Quant Time: Jan 28 23:36:43 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM012021.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 27 13:20:04 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.963  | 152  | 34650    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.781 | 136  | 134427   | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.616 | 164  | 73518    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.351 | 188  | 138840   | 20.00  | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.486 | 240  | 131505   | 20.00  | ng    | # 0.00   |
| 86) Perylene-d12            | 23.750 | 264  | 135045   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 234000   | 106.68 | ng    | -0.02    |
| 7) Phenol-d6                | 7.157  | 99   | 294988   | 98.77  | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 9.140  | 82   | 181834   | 64.16  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.104 | 330  | 96910    | 99.49  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.233 | 172  | 378343   | 64.57  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.945 | 244  | 426277   | 58.54  | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 10) Phenol                  | 7.181  | 94   | 7712     | 2.74   | ng    | 92       |
| 49) Acenaphthylene          | 14.339 | 152  | 58498    | 7.69   | ng    | # 96     |
| 52) Acenaphthene            | 14.686 | 154  | 783295   | 165.82 | ng    | 98       |
| 55) Dibenzofuran            | 15.010 | 168  | 272783   | 37.55  | ng    | # 96     |
| 58) Fluorene                | 15.663 | 166  | 574322   | 96.49  | ng    | 99       |
| 71) Phenanthrene            | 17.410 | 178  | 3964980  | 464.36 | ng    | 99       |
| 72) Anthracene              | 17.486 | 178  | 366242   | 44.41  | ng    | 99       |
| 75) Fluoranthene            | 19.415 | 202  | 4026719  | 419.91 | ng    | 96       |
| 78) Pyrene                  | 19.768 | 202  | 2884761  | 305.94 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.474 | 228  | 744992   | 82.04  | ng    | 99       |
| 83) Chrysene                | 21.527 | 228  | 603673   | 68.86  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.050 | 276  | 73582m   | 7.31   | ng    |          |
| 88) Benzo(b)fluoranthene    | 23.074 | 252  | 464978   | 50.72  | ng    | # 96     |
| 89) Benzo(k)fluoranthene    | 23.109 | 252  | 139642m  | 15.60  | ng    |          |
| 90) Benzo(a)pyrene          | 23.656 | 252  | 162277   | 19.10  | ng    | # 96     |
| 91) Dibenz(a,h)anthracene   | 26.056 | 278  | 21728    | 2.61   | ng    | # 88     |
| 92) Benzo(g,h,i)perylene    | 26.756 | 276  | 52040    | 6.36   | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

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

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Acq On : 28 Jan 2021 18:33  
Operator : CG/JU  
Sample : M1254-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

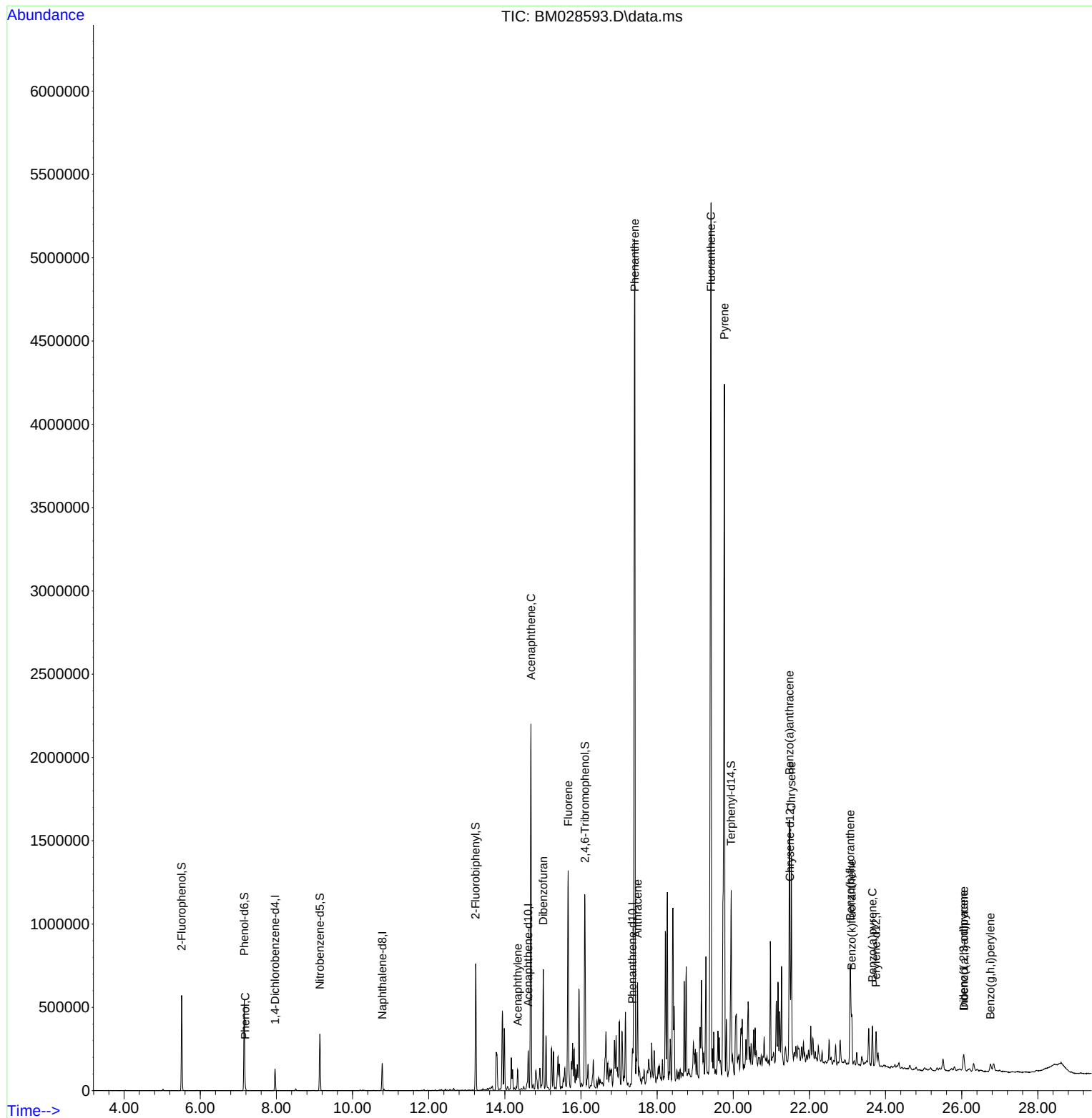
Instrument :  
BNA\_M  
ClientSampleId :  
CRT-5

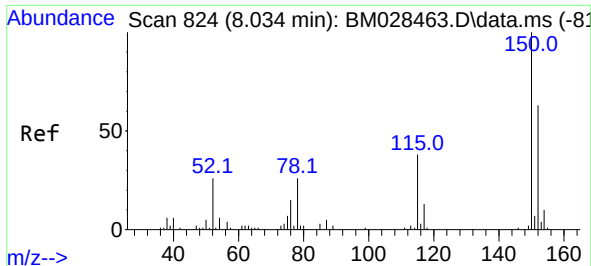
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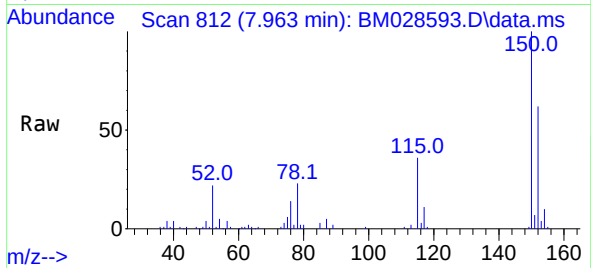
1/29/2021 10:34:14 AM

Quant Time: Jan 28 23:36:43 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM012021.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 27 13:20:04 2021  
Response via : Initial Calibration

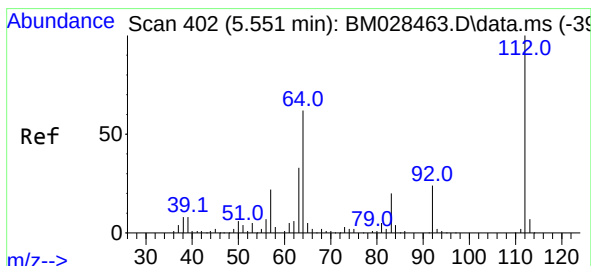
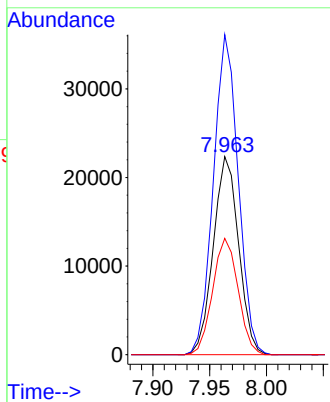
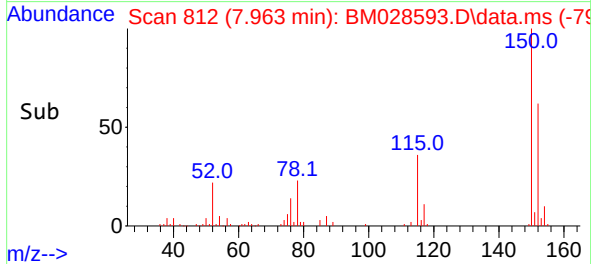




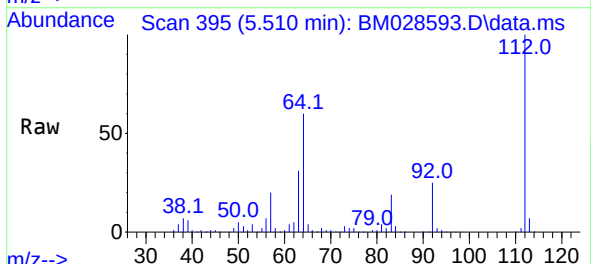
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.963 min Scan# 812  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



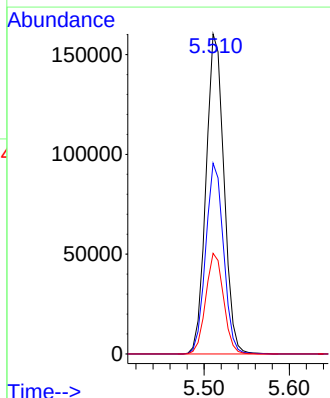
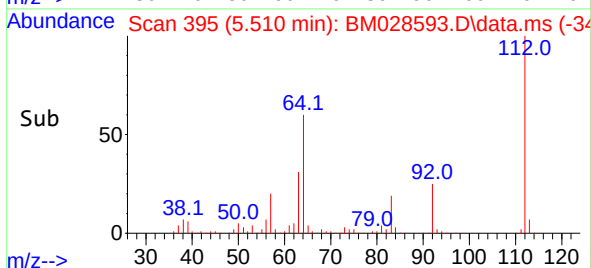
Tgt Ion:152 Resp: 34650  
Ion Ratio Lower Upper  
152 100  
150 161.6 120.6 181.0  
115 58.7 47.2 70.8



#5  
2-Fluorophenol  
Concen: 106.68 ng  
RT: 5.510 min Scan# 395  
Delta R.T. -0.023 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:112 Resp: 234000  
Ion Ratio Lower Upper  
112 100  
64 59.6 50.6 76.0  
63 31.5 31.0 46.6

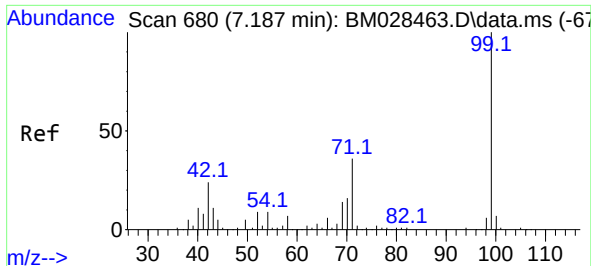


Instrument :  
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#7  
Phenol-d6  
Concen: 98.77 ng  
RT: 7.157 min Scan# 675  
Delta R.T. -0.029 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

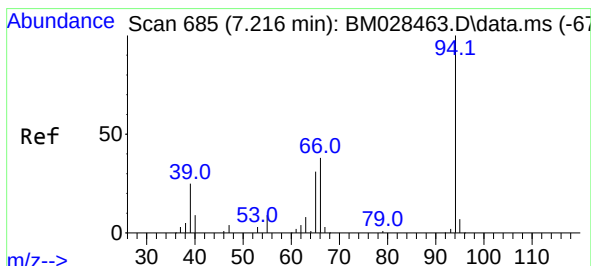
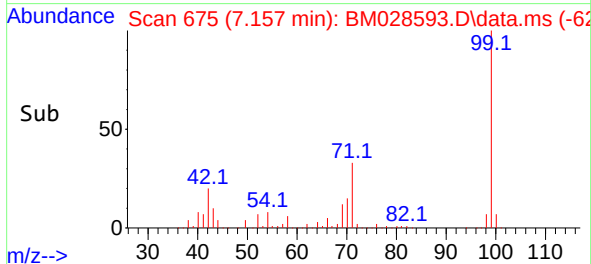
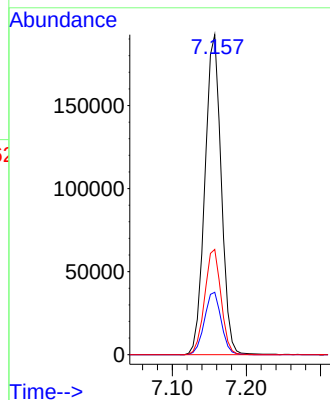
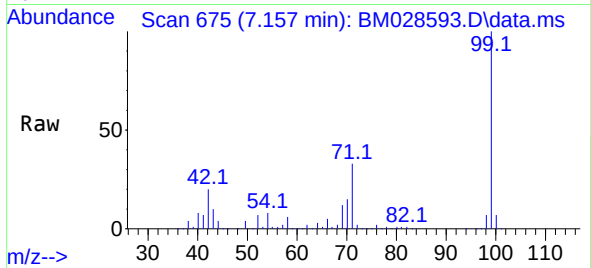
Tgt Ion: 99 Resp: 294988  
Ion Ratio Lower Upper  
99 100  
42 19.5 13.5 20.3  
71 32.9 39.4 59.0#

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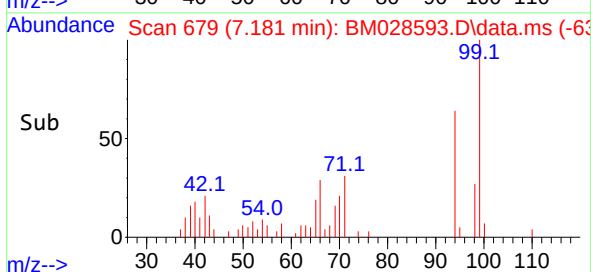
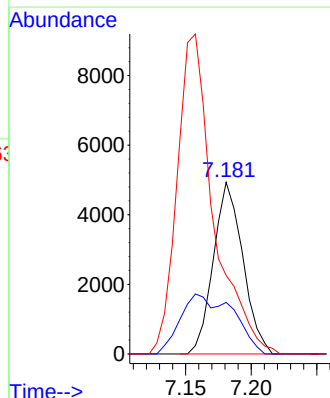
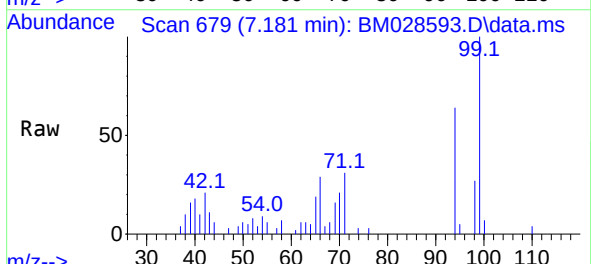
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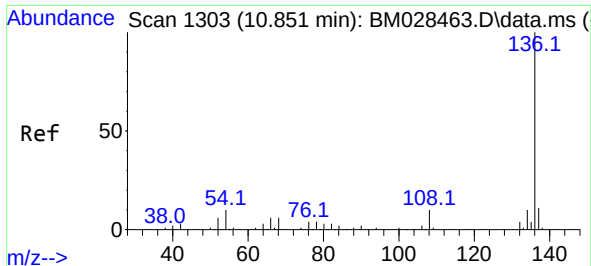
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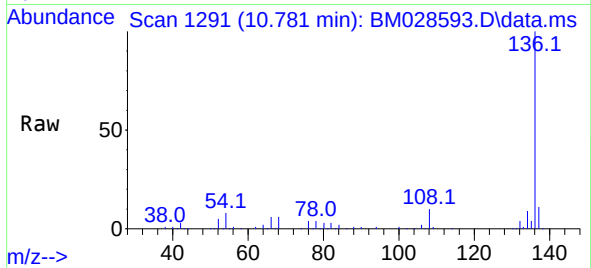
#10  
Phenol  
Concen: 2.74 ng  
RT: 7.181 min Scan# 679  
Delta R.T. -0.029 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

Tgt Ion: 94 Resp: 7712  
Ion Ratio Lower Upper  
94 100  
65 30.0 16.4 56.4  
66 45.8 30.2 70.2

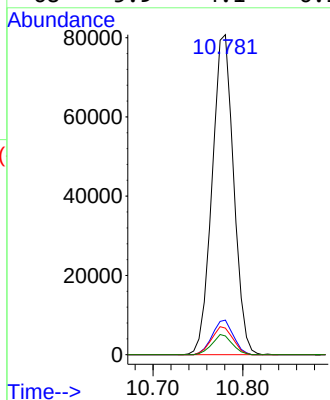




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.781 min Scan# 1291  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 134427 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.6   | 12.8   |
| 54       | 8.3   | 4.6   | 7.0#   |
| 68       | 5.9   | 4.1   | 6.1    |

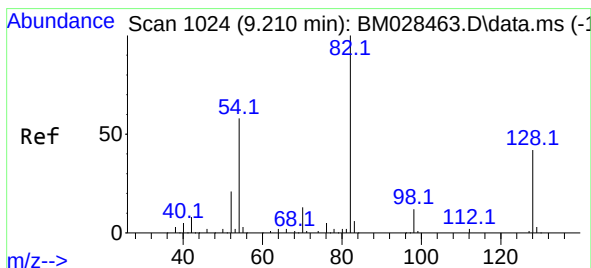


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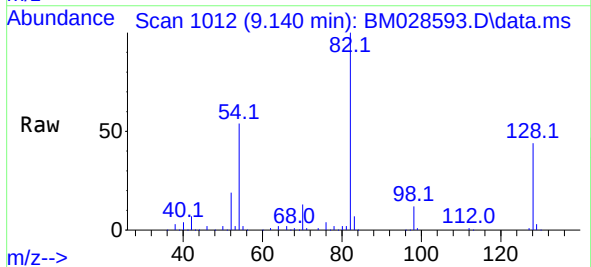
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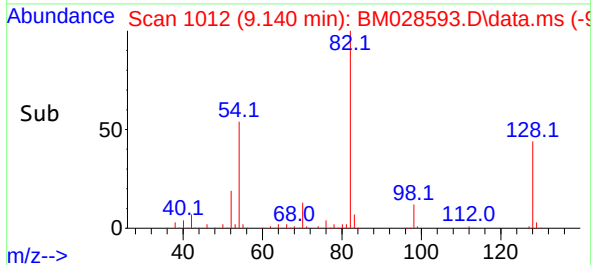
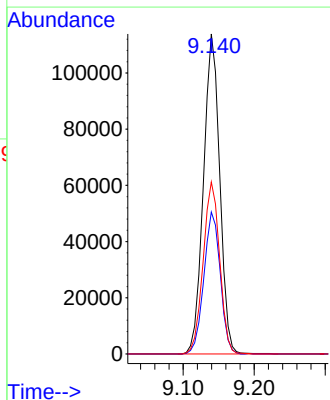
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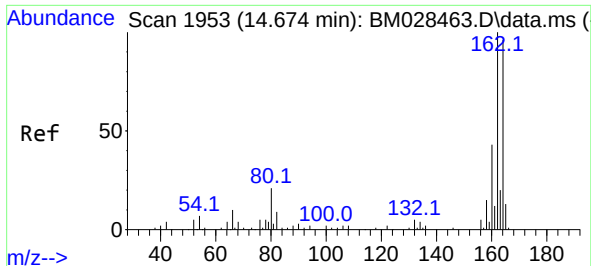


#23  
Nitrobenzene-d5  
Concen: 64.16 ng  
RT: 9.140 min Scan# 1012  
Delta R.T. -0.012 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

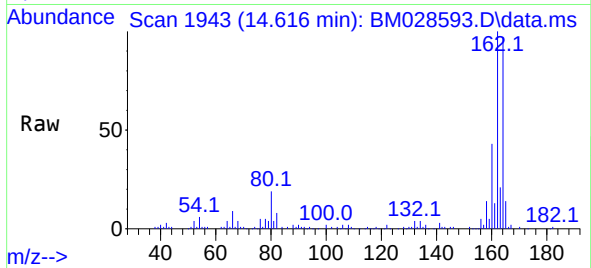


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 181834 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.3  | 27.4  | 41.0#  |
| 54       | 53.8  | 31.4  | 47.0#  |

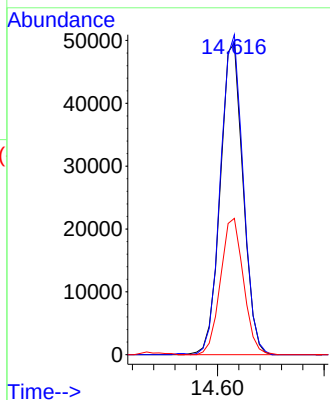
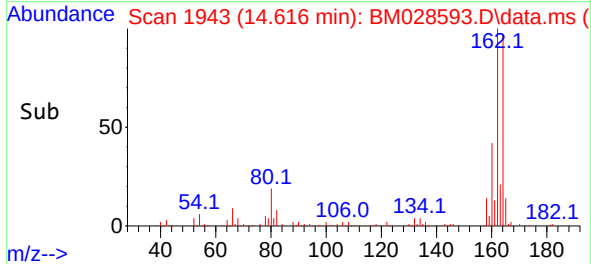




#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.616 min Scan# 1943  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:164 Resp: 73518  
Ion Ratio Lower Upper  
164 100  
162 102.7 80.4 120.6  
160 43.7 35.9 53.9

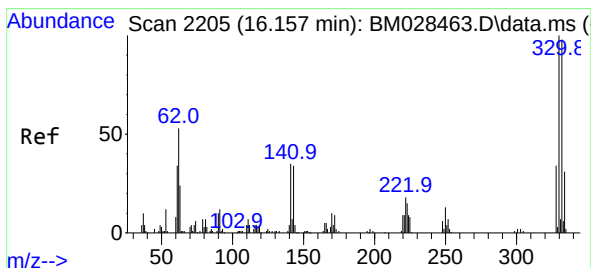


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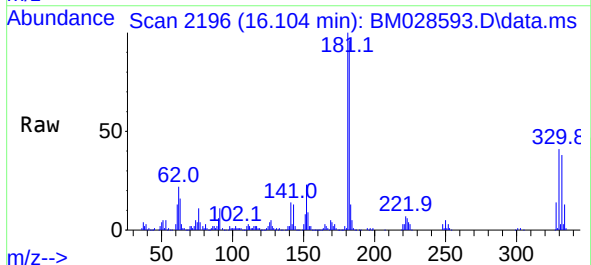
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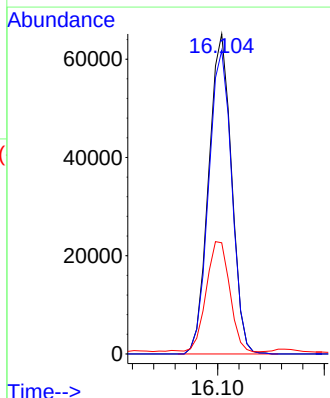
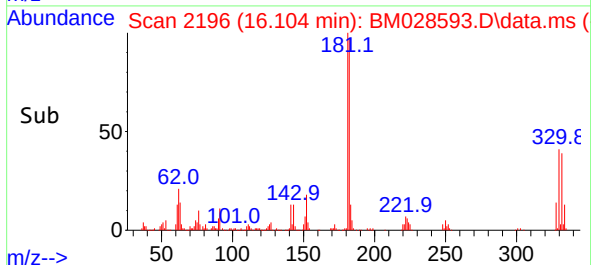
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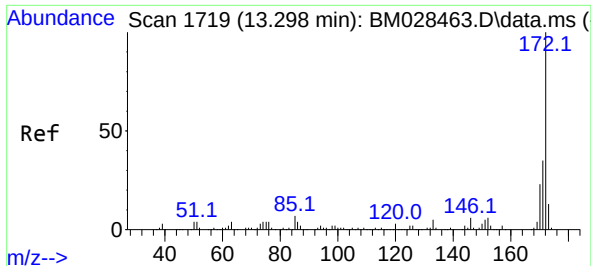


#42  
2,4,6-Tribromophenol  
Concen: 99.49 ng  
RT: 16.104 min Scan# 2196  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:330 Resp: 96910  
Ion Ratio Lower Upper  
330 100  
332 95.8 77.8 116.8  
141 36.5 28.4 42.6





#45  
2-Fluorobiphenyl  
Concen: 64.57 ng  
RT: 13.233 min Scan# 1708  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

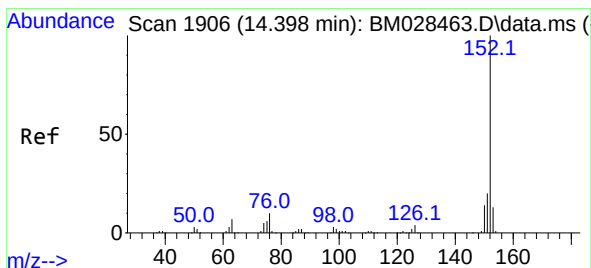
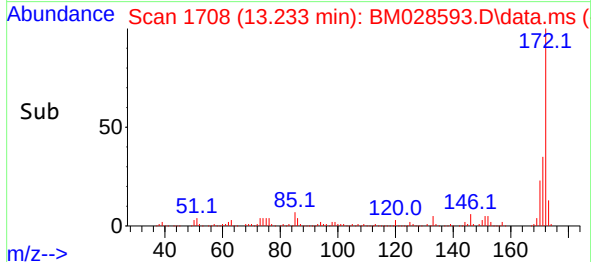
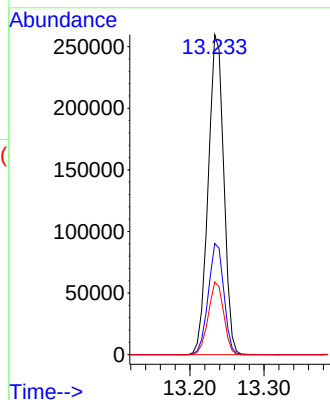
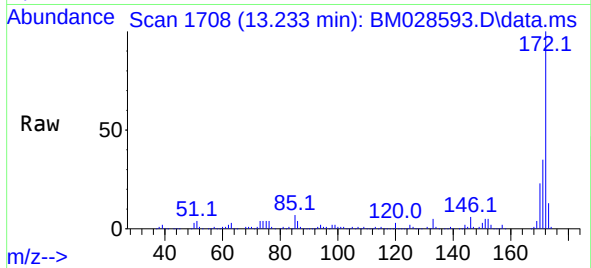
Tgt Ion:172 Resp: 378343  
Ion Ratio Lower Upper  
172 100  
171 34.7 27.8 41.8  
170 22.7 18.6 27.8

Instrument :  
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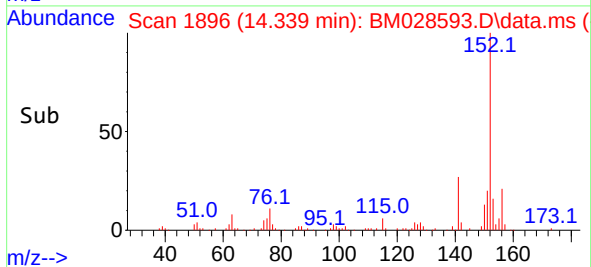
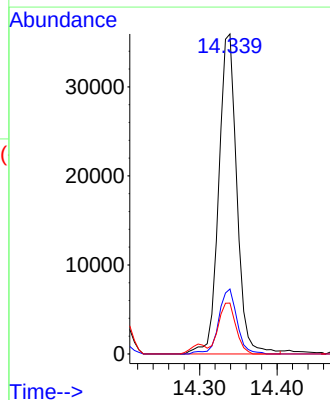
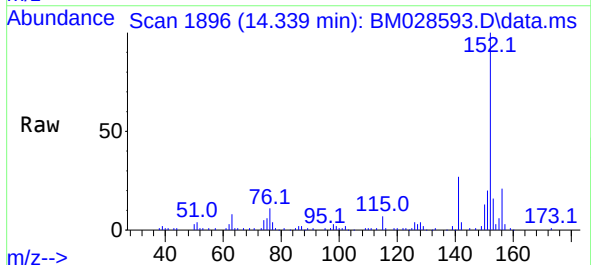
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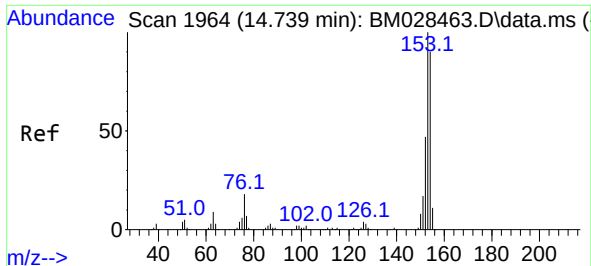
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#49  
Acenaphthylene  
Concen: 7.69 ng  
RT: 14.339 min Scan# 1896  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

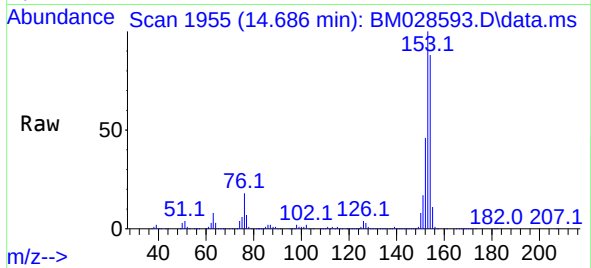
Tgt Ion:152 Resp: 58498  
Ion Ratio Lower Upper  
152 100  
151 20.3 15.8 23.6  
153 15.9 10.4 15.6#





#52  
Acenaphthene  
Concen: 165.82 ng  
RT: 14.686 min Scan# 1955  
Delta R.T. 0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

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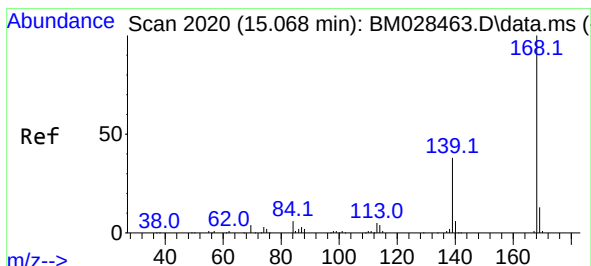
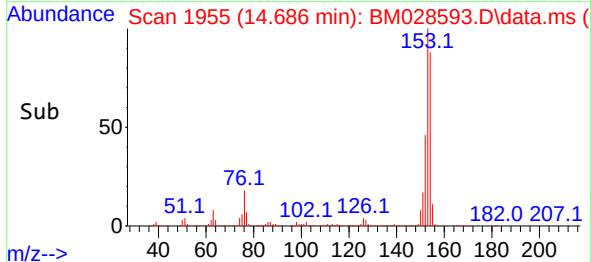
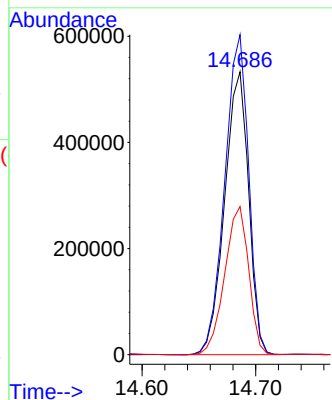


Tgt Ion:154 Resp: 783295  
Ion Ratio Lower Upper  
154 100  
153 113.1 88.3 132.5  
152 52.4 41.4 62.2

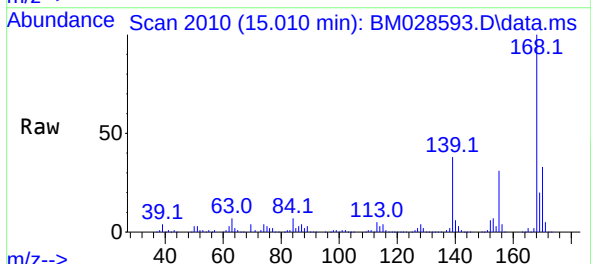
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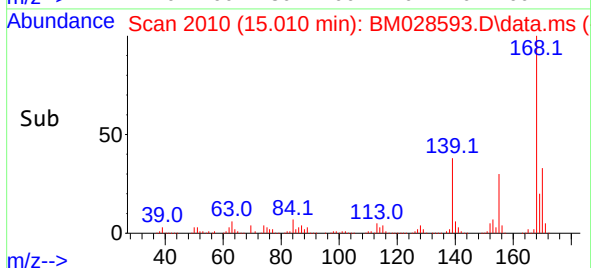
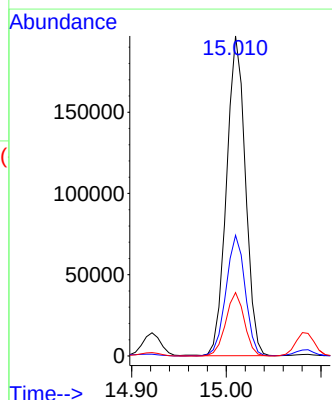
1/29/2021 10:34:14 AM



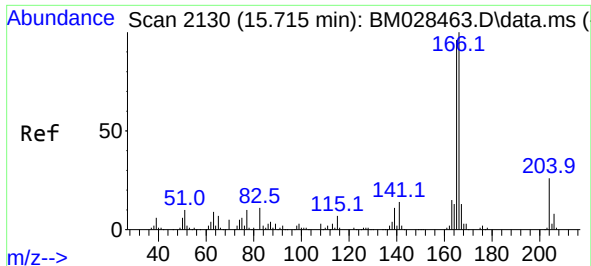
#55  
Dibenzofuran  
Concen: 37.55 ng  
RT: 15.010 min Scan# 2010  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



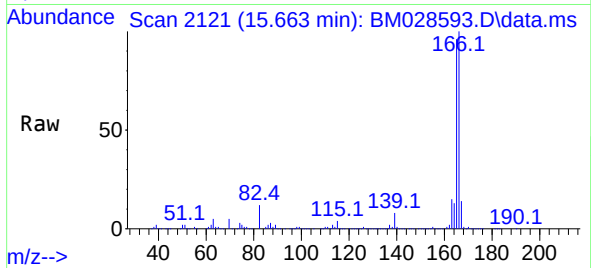
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Ion Ratio Lower Upper  
168 100  
139 37.7 30.2 45.4  
169 19.8 10.6 16.0#



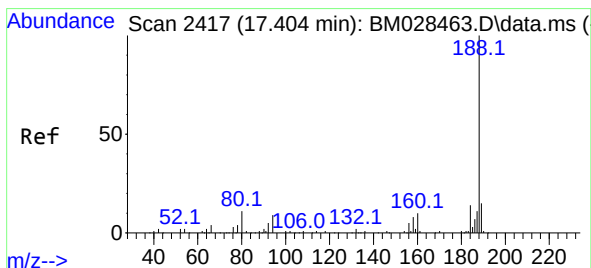
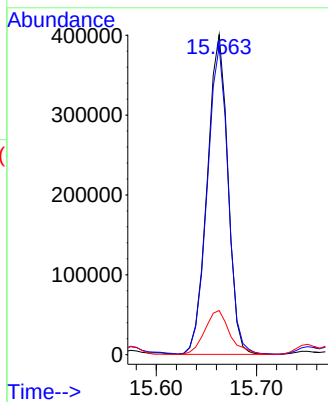
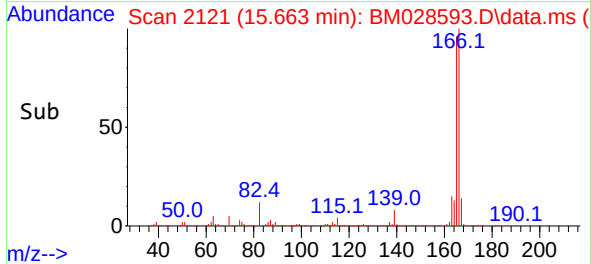




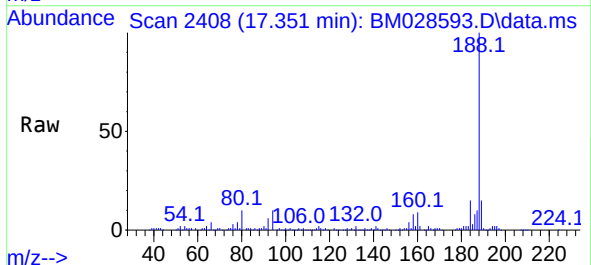
#58  
Fluorene  
Concen: 96.49 ng  
RT: 15.663 min Scan# 2121  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



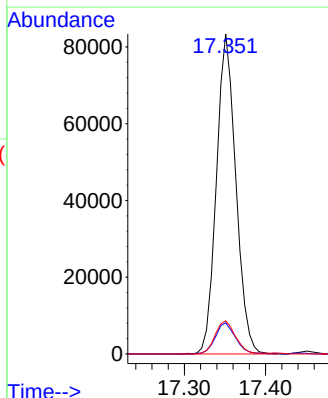
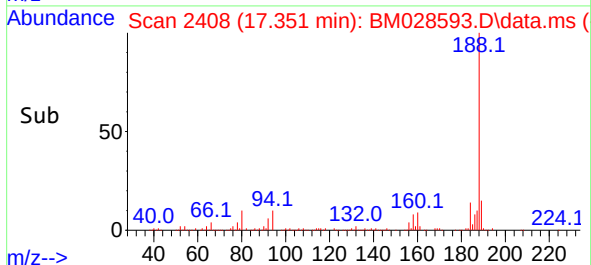
Tgt Ion:166 Resp: 574322  
Ion Ratio Lower Upper  
166 100  
165 96.3 76.2 114.2  
167 13.8 10.7 16.1



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.351 min Scan# 2408  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:188 Resp: 138840  
Ion Ratio Lower Upper  
188 100  
94 9.8 6.2 9.4#  
80 10.3 7.5 11.3

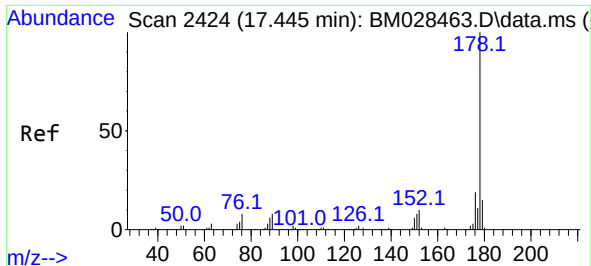


Instrument :  
BNA\_M  
ClientSampled :  
CRT-5

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#71  
Phenanthrene  
Concen: 464.36 ng  
RT: 17.410 min Scan# 2418  
Delta R.T. 0.018 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

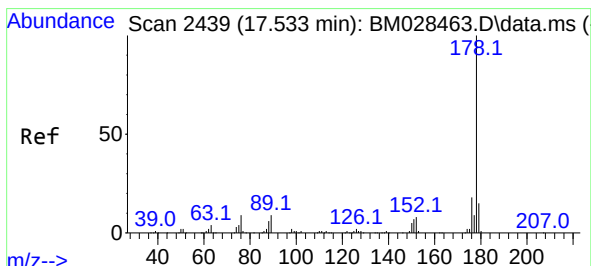
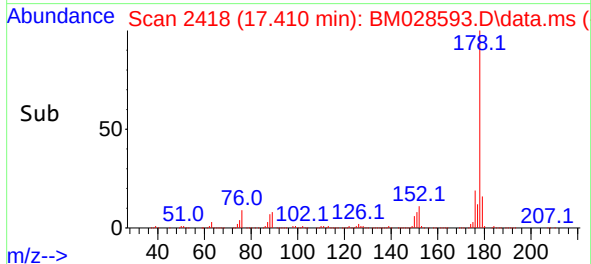
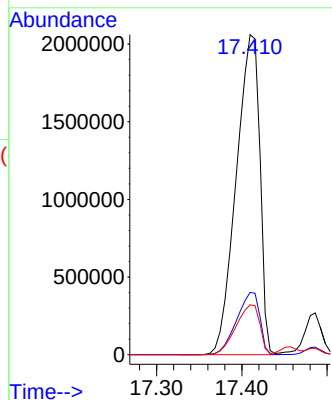
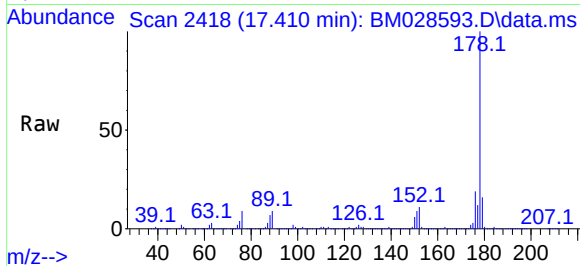
Tgt Ion:178 Resp: 3964980  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.0 22.6  
179 15.6 12.2 18.4

Instrument :  
BNA\_M  
ClientSampled :  
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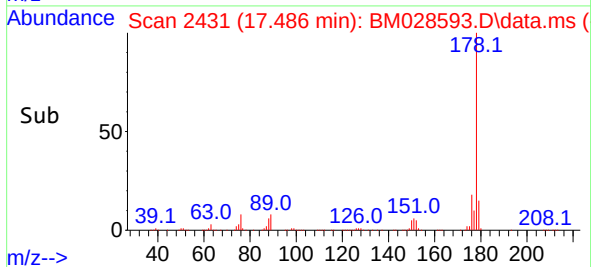
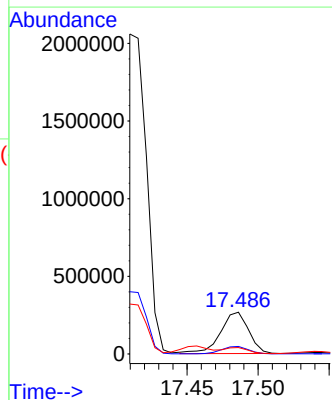
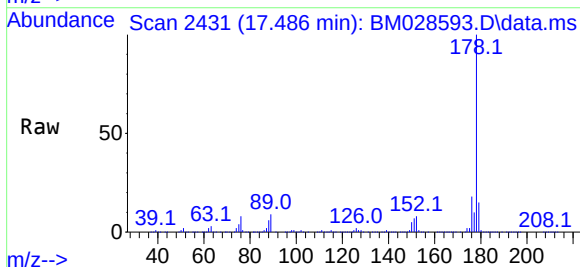
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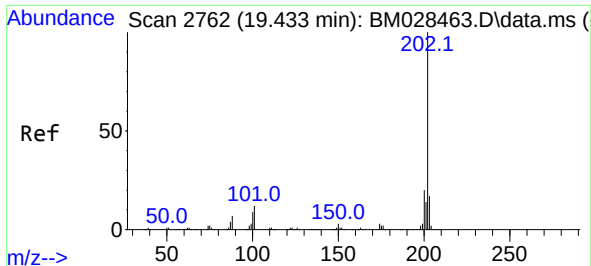
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#72  
Anthracene  
Concen: 44.41 ng  
RT: 17.486 min Scan# 2431  
Delta R.T. 0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

Tgt Ion:178 Resp: 366242  
Ion Ratio Lower Upper  
178 100  
176 17.8 15.0 22.4  
179 15.3 12.5 18.7





#75  
Fluoranthene  
Concen: 419.91 ng  
RT: 19.415 min Scan# 2759  
Delta R.T. 0.024 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

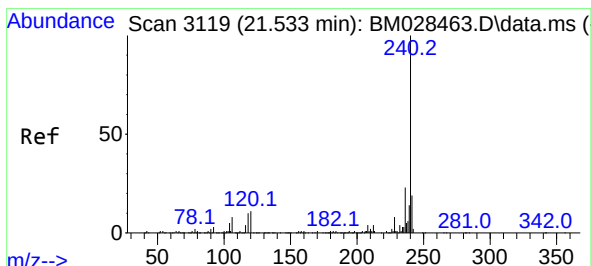
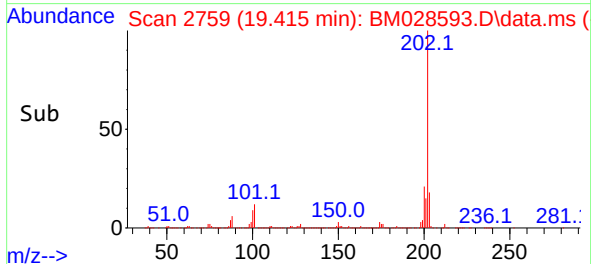
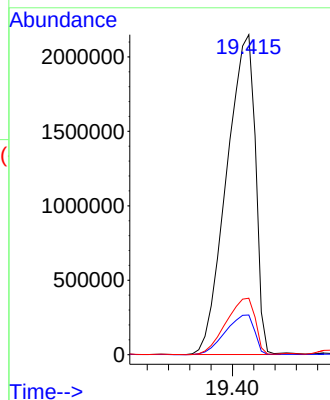
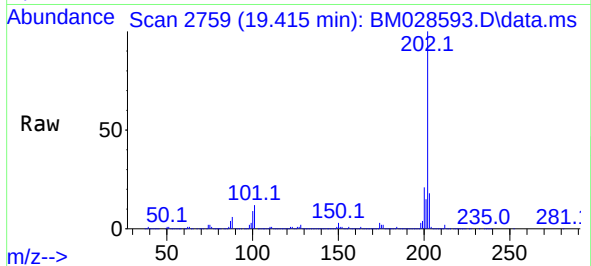
Tgt Ion:202 Resp: 4026719  
Ion Ratio Lower Upper  
202 100  
101 12.4 0.0 28.5  
203 17.6 0.0 37.3

Instrument :  
BNA\_M  
ClientSampled :  
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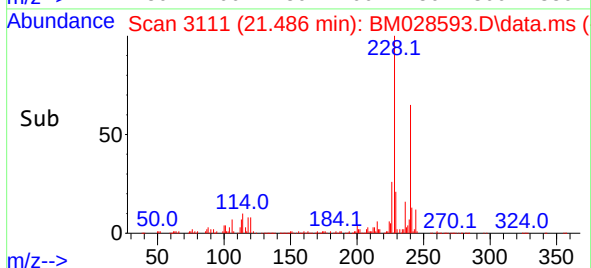
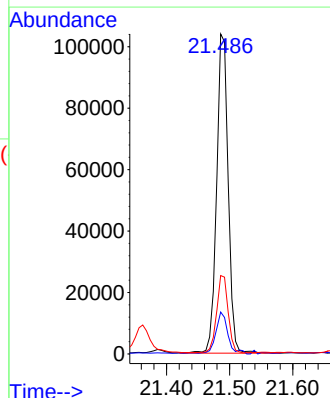
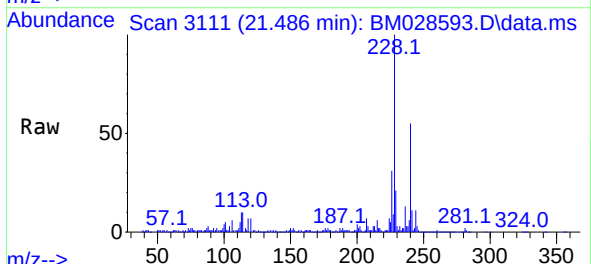
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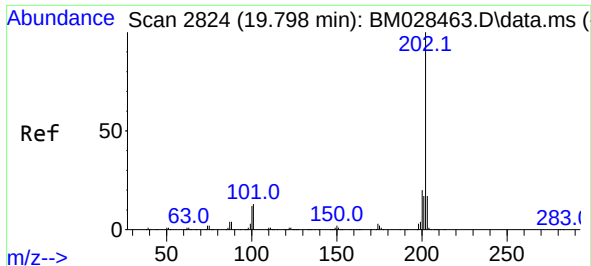
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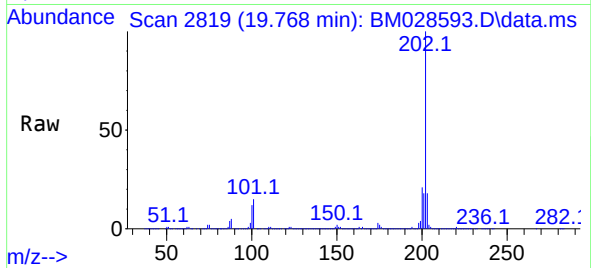
#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.486 min Scan# 3111  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

Tgt Ion:240 Resp: 131505  
Ion Ratio Lower Upper  
240 100  
120 13.1 6.4 9.6#  
236 24.5 20.1 30.1



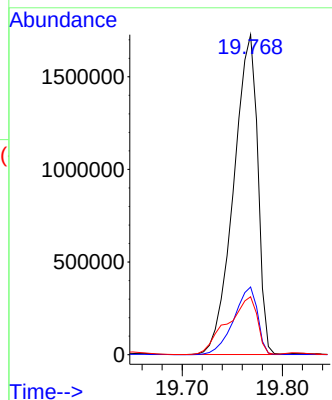


#78  
Pyrene  
Concen: 305.94 ng  
RT: 19.768 min Scan# 2819  
Delta R.T. 0.018 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:202 Resp: 2884761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.1  | 16.6  | 24.8  |
| 203 | 18.1  | 13.8  | 20.6  |

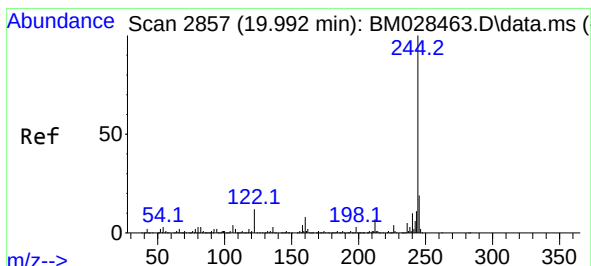


Instrument :  
BNA\_M  
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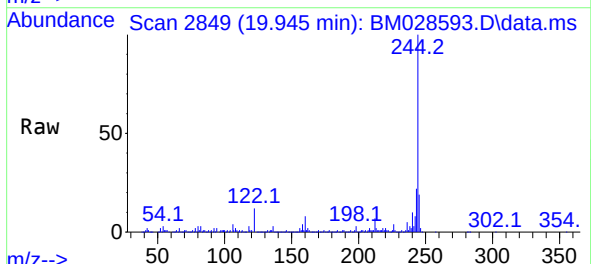
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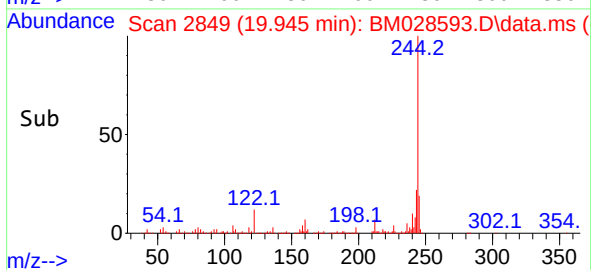
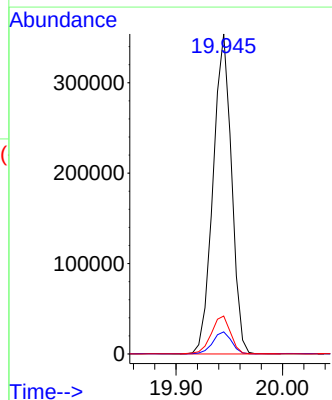


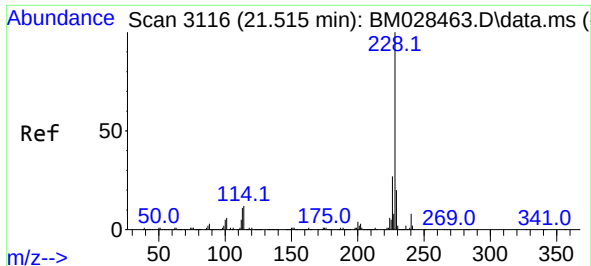
#79  
Terphenyl-d14  
Concen: 58.54 ng  
RT: 19.945 min Scan# 2849  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:244 Resp: 426277

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.9   | 5.8   | 8.8   |
| 122 | 11.9  | 6.5   | 9.7#  |





#81  
Benzo(a)anthracene  
Concen: 82.04 ng  
RT: 21.474 min Scan# 3109  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

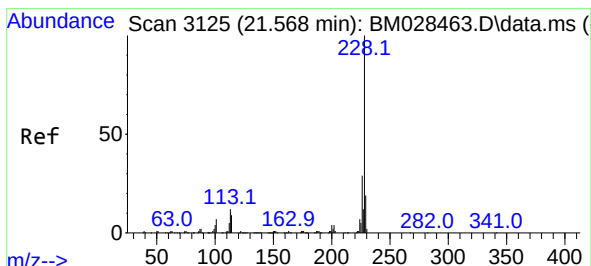
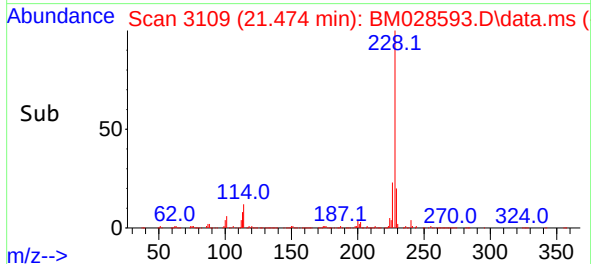
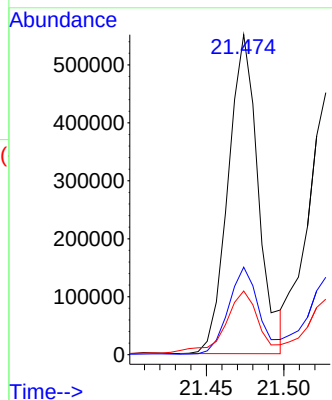
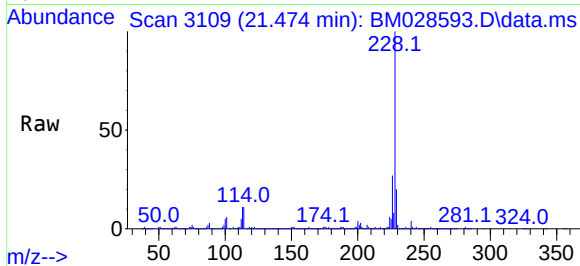
Tgt Ion:228 Resp: 744992  
Ion Ratio Lower Upper  
228 100  
226 27.3 21.1 31.7  
229 19.9 15.7 23.5

Instrument :  
BNA\_M  
ClientSampleId :  
CRT-5

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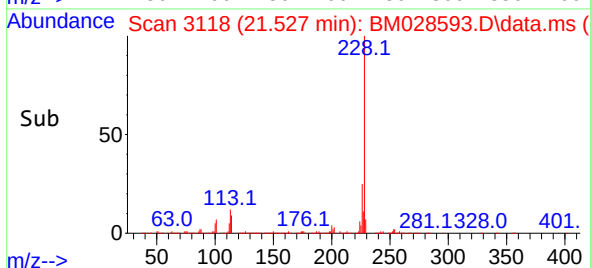
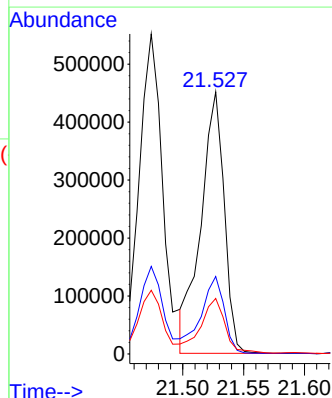
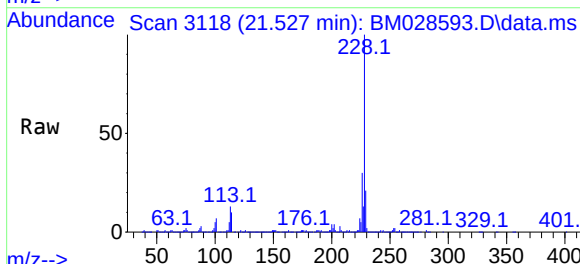
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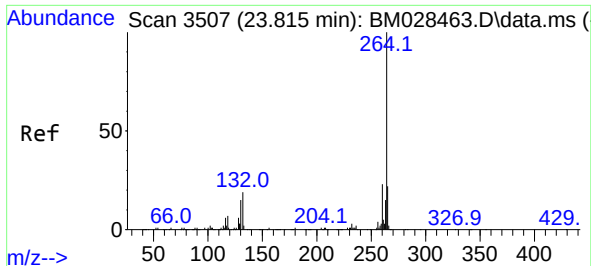
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#83  
Chrysene  
Concen: 68.86 ng  
RT: 21.527 min Scan# 3118  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

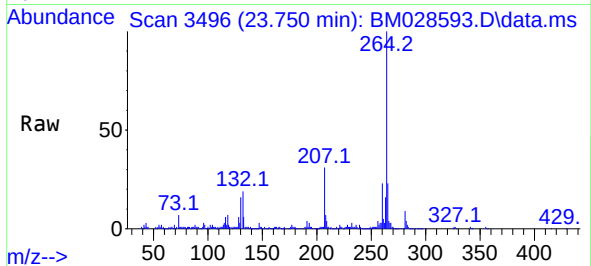
Tgt Ion:228 Resp: 603673  
Ion Ratio Lower Upper  
228 100  
226 29.6 23.4 35.0  
229 21.2 15.7 23.5





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.750 min Scan# 3496  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

Instrument :  
BNA\_M  
ClientSampled :  
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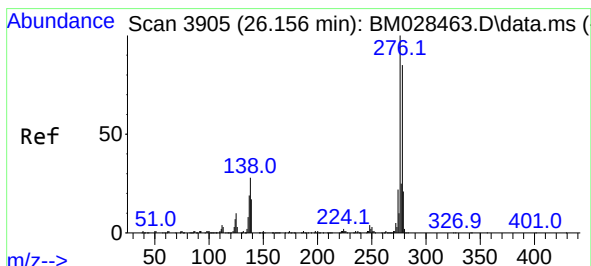
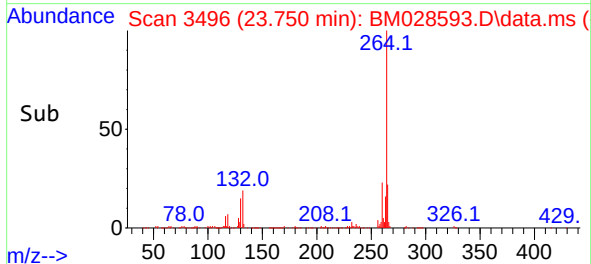
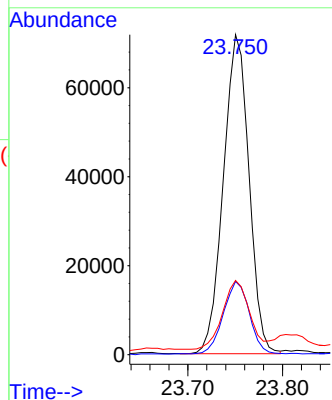
Tgt Ion:264 Resp: 135045  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.9  | 19.0  | 28.4  |
| 265 | 23.2  | 17.7  | 26.5  |

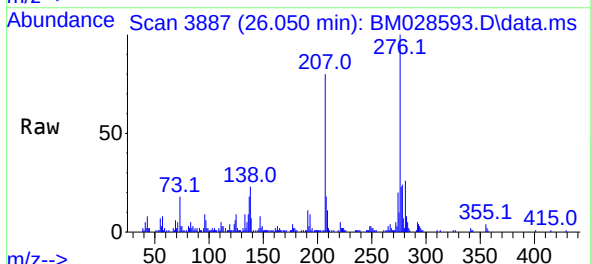
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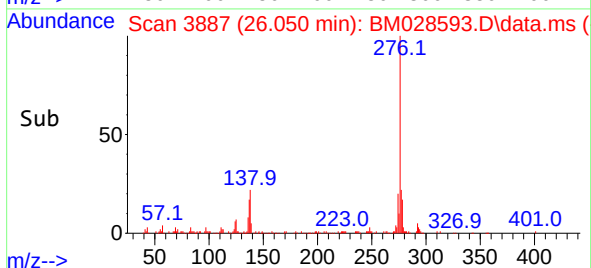
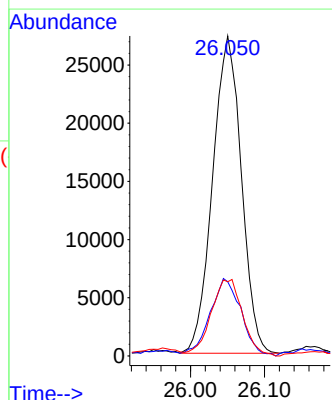


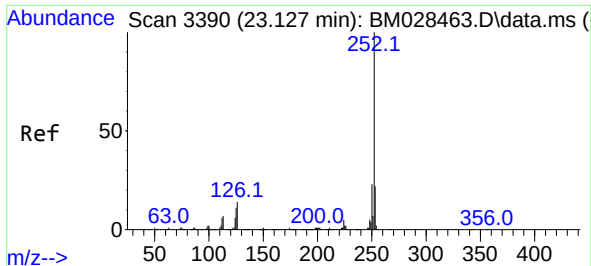
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 7.31 ng m  
RT: 26.050 min Scan# 3887  
Delta R.T. -0.018 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33



Tgt Ion:276 Resp: 73582  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 2.3   | 14.2  | 21.4# |
| 277 | 2.8   | 19.8  | 29.8# |





#88  
Benzo(b)fluoranthene  
Concen: 50.72 ng  
RT: 23.074 min Scan# 3381  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

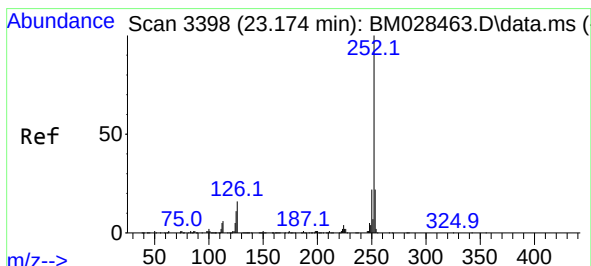
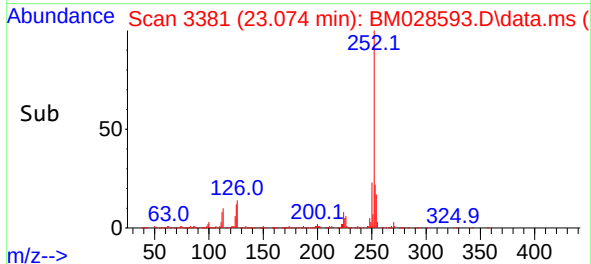
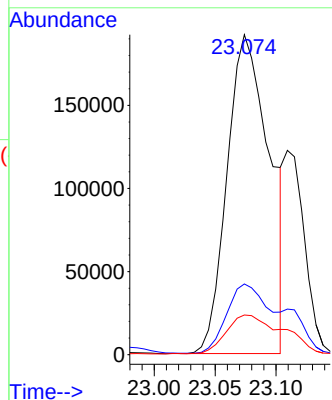
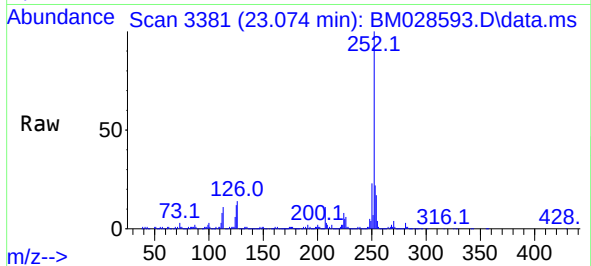
Tgt Ion:252 Resp: 464978  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.4 26.0  
125 12.4 5.7 8.5#

Instrument :  
BNA\_M  
ClientSampled :  
CRT-5

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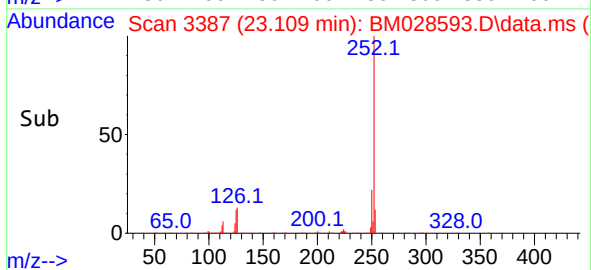
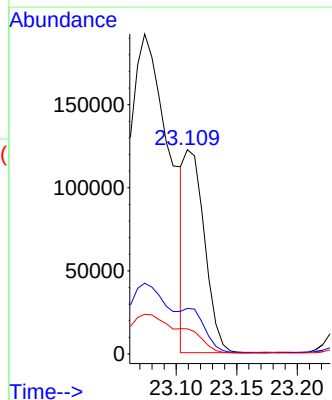
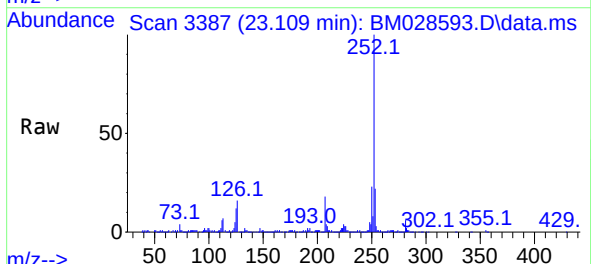
mohammad

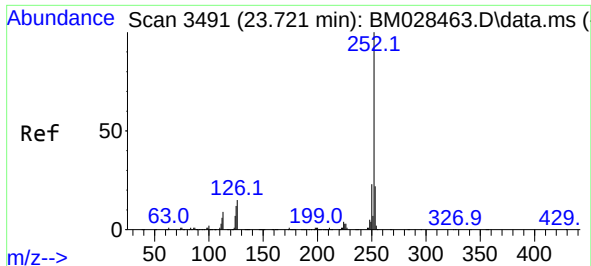
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#89  
Benzo(k)fluoranthene  
Concen: 15.60 ng m  
RT: 23.109 min Scan# 3387  
Delta R.T. -0.006 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

Tgt Ion:252 Resp: 139642  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.4 26.0  
125 12.3 5.6 8.4#





#90  
Benzo(a)pyrene  
Concen: 19.10 ng  
RT: 23.656 min Scan# 3480  
Delta R.T. 0.000 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

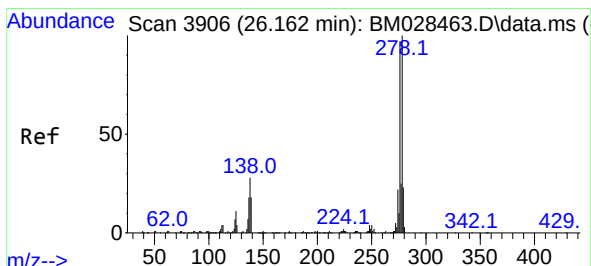
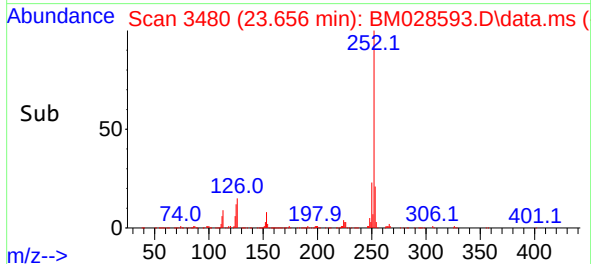
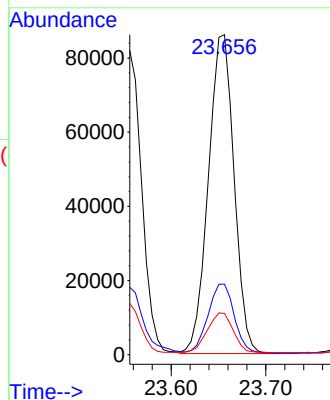
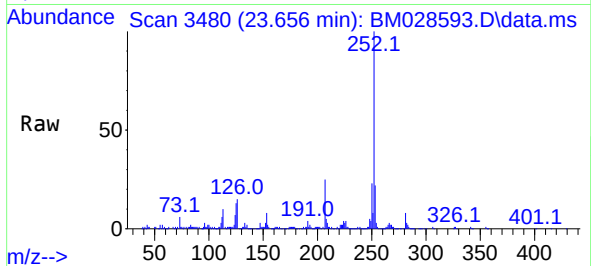
Tgt Ion:252 Resp: 162277  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.4 26.2  
125 12.9 6.6 9.8#

Instrument :  
BNA\_M  
ClientSampled :  
CRT-5

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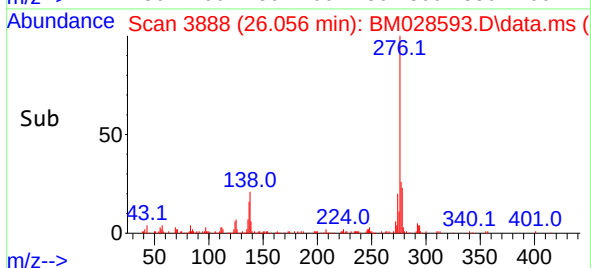
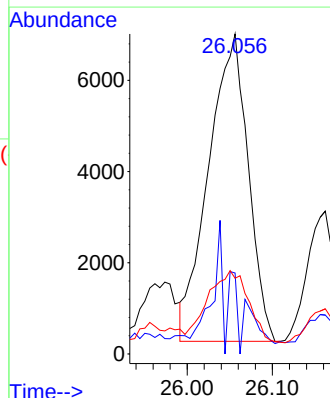
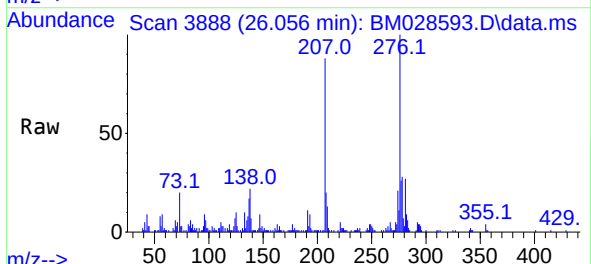
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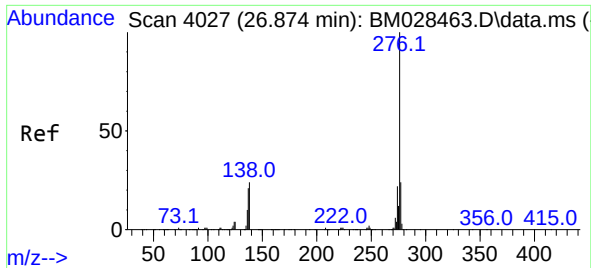


#91  
Dibenzo(a,h)anthracene  
Concen: 2.61 ng  
RT: 26.056 min Scan# 3888  
Delta R.T. -0.018 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

Tgt Ion:278 Resp: 21728  
Ion Ratio Lower Upper  
278 100  
139 25.3 9.0 13.6#  
279 23.7 19.0 28.4







#92  
Benzo(g,h,i)perylene  
Concen: 6.36 ng  
RT: 26.756 min Scan# 4007  
Delta R.T. -0.018 min  
Lab File: BM028593.D  
Acq: 28 Jan 2021 18:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.5  | 18.6  | 28.0  |
| 138     | 25.4  | 12.2  | 18.2  |

Instrument :  
BNA\_M  
ClientSampleId :  
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