

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP021221\  
 Data File : BP004737.D  
 Acq On : 12 Feb 2021 19:13  
 Operator : CG/JU  
 Sample : M1389-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 S-1

Manual Integrations  
 APPROVED

mohammad  
 2/15/2021 11:26:40 AM

Quant Time: Feb 12 22:45:43 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP020521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 05 18:04:48 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.769  | 152  | 50476    | 20.00  | ng    | # 0.00   |
| 21) Naphthalene-d8          | 10.563 | 136  | 198172   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.416 | 164  | 127703   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.169 | 188  | 281161   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.257 | 240  | 297054   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.563 | 264  | 298883   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.358  | 112  | 356985   | 109.20 | ng    | 0.00     |
| 7) Phenol-d6                | 6.940  | 99   | 464986   | 103.43 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.922  | 82   | 293819   | 64.60  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 15.910 | 330  | 181718   | 107.10 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.034 | 172  | 594195   | 56.87  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.739 | 244  | 855105   | 48.35  | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.963  | 94   | 26489    | 6.09   | ng    | 72       |
| 50) Dimethylphthalate       | 13.869 | 163  | 33266    | 2.96   | ng    | 98       |
| 71) Phenanthrene            | 17.210 | 178  | 231063   | 13.42  | ng    | 99       |
| 73) Carbazole               | 17.575 | 167  | 38923    | 2.56   | ng    | 98       |
| 75) Fluoranthene            | 19.186 | 202  | 527227   | 25.71  | ng    | 98       |
| 78) Pyrene                  | 19.533 | 202  | 404704   | 19.32  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.239 | 228  | 179676   | 8.53   | ng    | 99       |
| 83) Chrysene                | 21.292 | 228  | 226193   | 11.09  | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.921 | 276  | 147578   | 6.18   | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 22.863 | 252  | 326860   | 14.93  | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 22.910 | 252  | 86045m   | 4.09   | ng    |          |
| 90) Benzo(a)pyrene          | 23.463 | 252  | 183107   | 9.26   | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 26.657 | 276  | 147733   | 7.73   | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

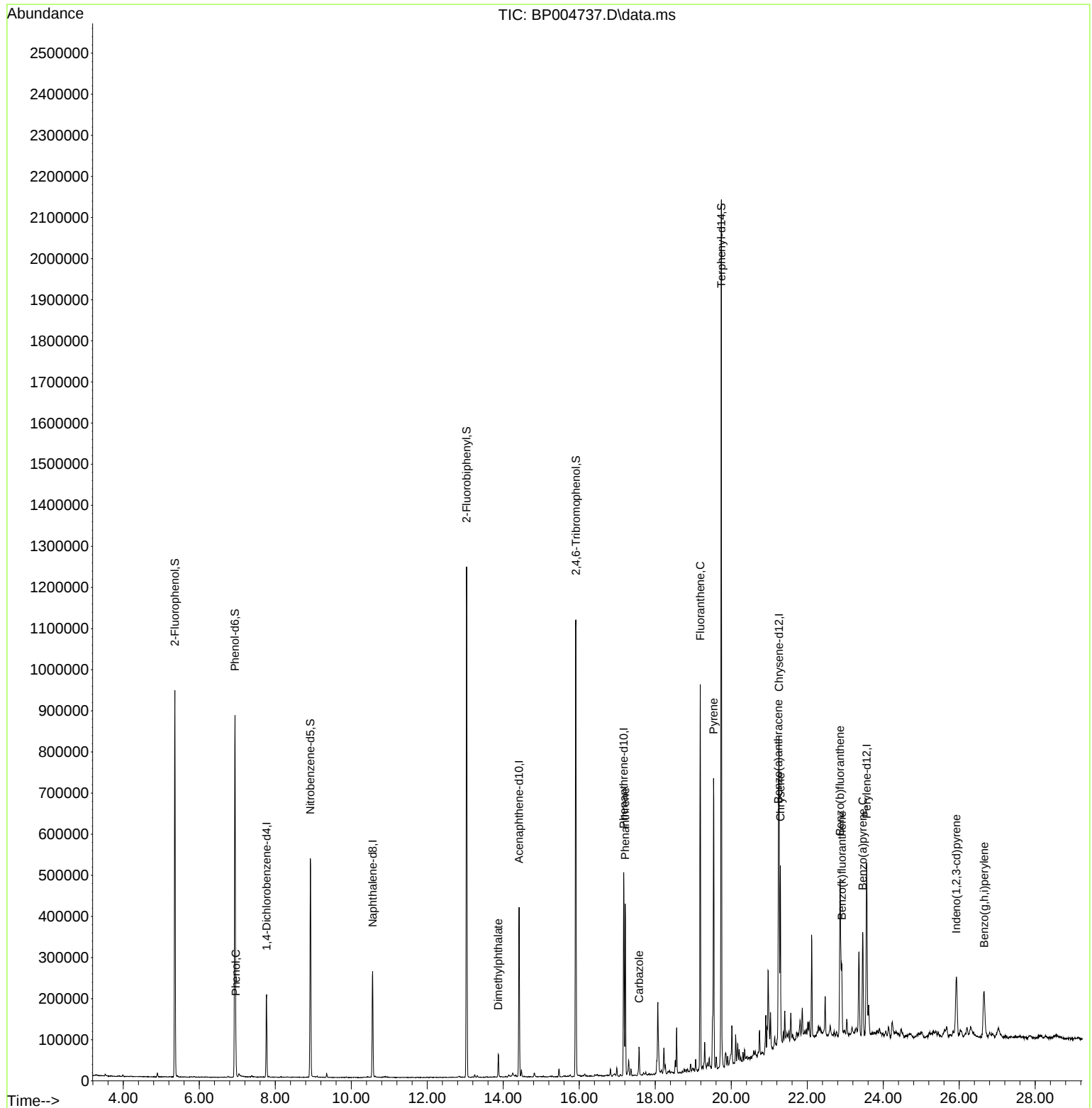
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP021221\  
Data File : BP004737.D  
Acq On : 12 Feb 2021 19:13  
Operator : CG/JU  
Sample : M1389-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

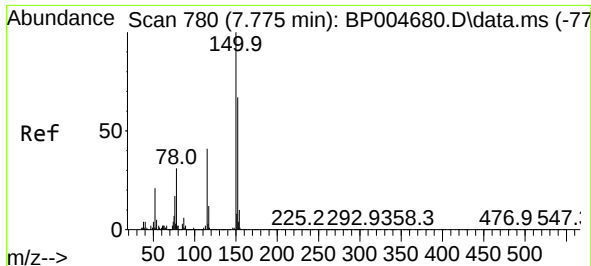
Instrument :  
BNA\_P  
ClientSampleId :  
S-1

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Quant Time: Feb 12 22:45:43 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP020521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 05 18:04:48 2021  
Response via : Initial Calibration





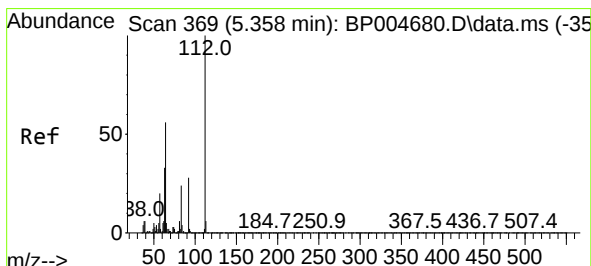
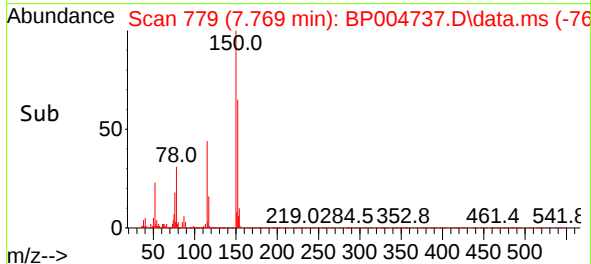
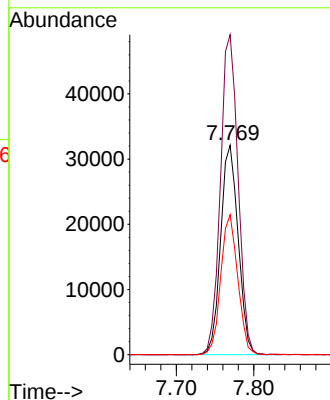
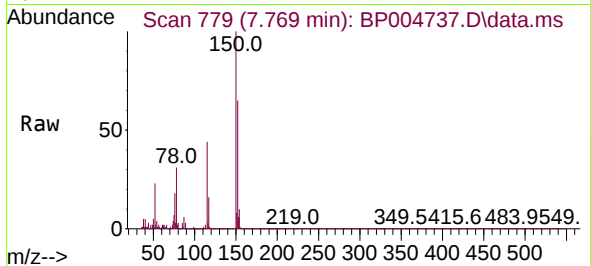
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.769 min Scan# 779  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

Tgt Ion:152 Resp: 50476  
Ion Ratio Lower Upper  
152 100  
150 152.8 123.8 185.6  
115 66.8 43.8 65.6#

Instrument :  
BNA\_P  
ClientSampled :  
S-1

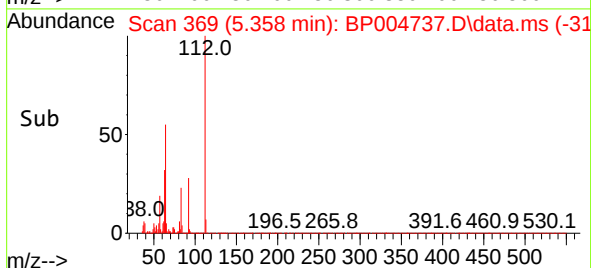
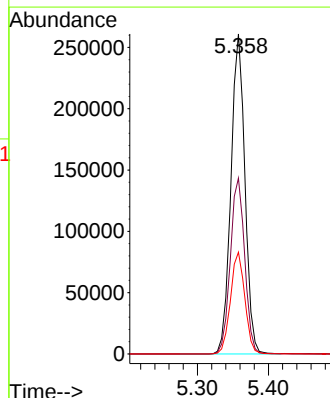
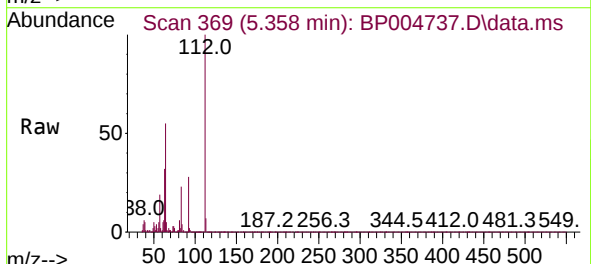
Manual Integrations  
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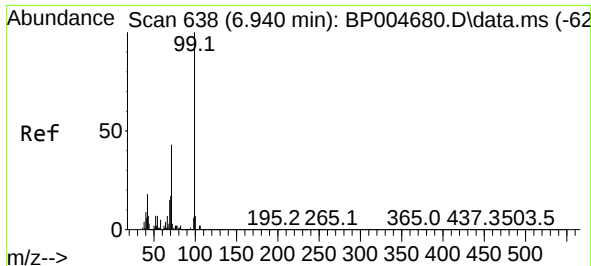
mohammad  
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#5  
2-Fluorophenol  
Concen: 109.20 ng  
RT: 5.358 min Scan# 369  
Delta R.T. 0.000 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

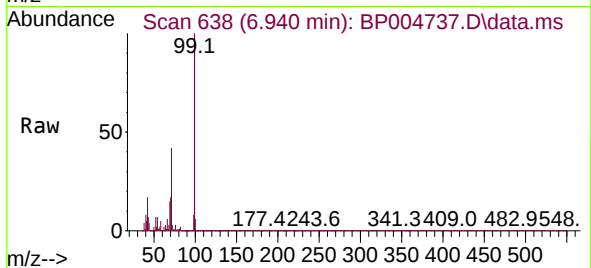
Tgt Ion:112 Resp: 356985  
Ion Ratio Lower Upper  
112 100  
64 54.9 32.8 49.2#  
63 31.8 17.0 25.4#





#7  
Phenol-d6  
Concen: 103.43 ng  
RT: 6.940 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

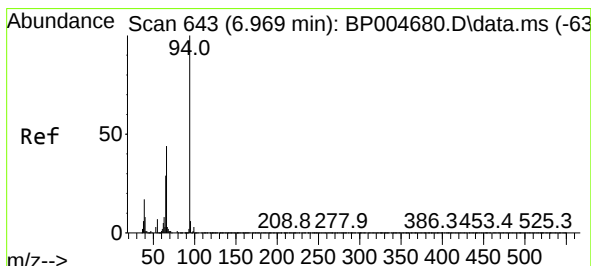
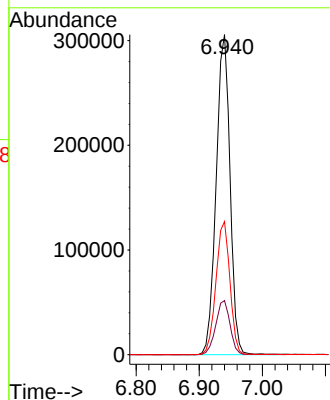
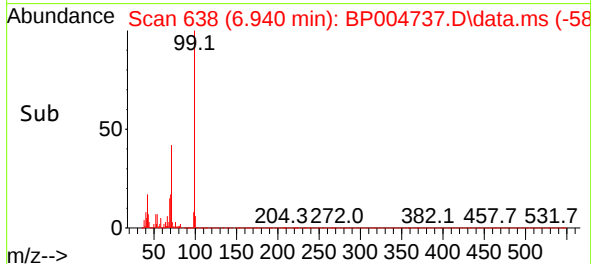
Instrument :  
BNA\_P  
ClientSampled :  
S-1



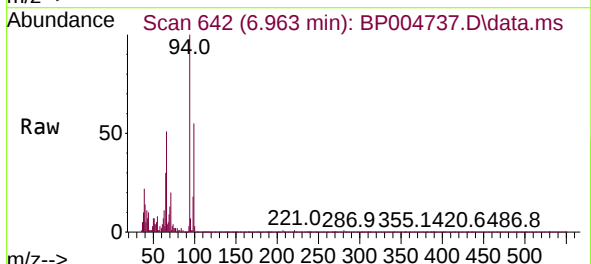
Tgt Ion: 99 Resp: 464986  
Ion Ratio Lower Upper  
99 100  
42 16.9 8.6 13.0#  
71 41.6 23.4 35.2#

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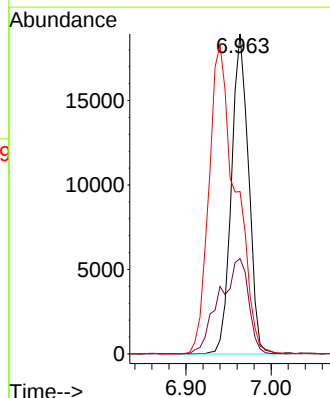
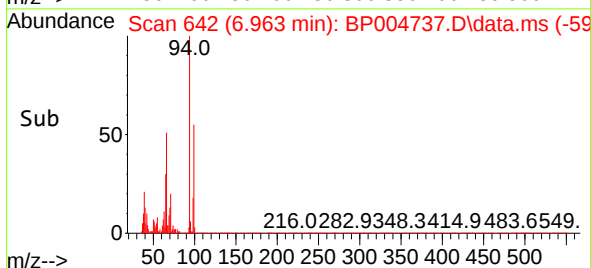
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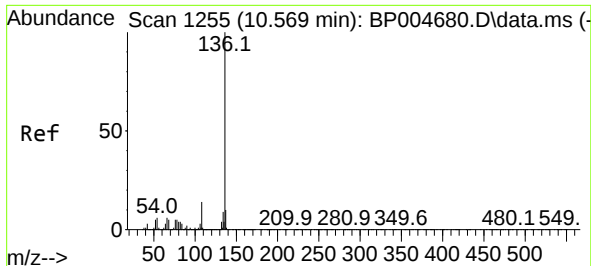


#10  
Phenol  
Concen: 6.09 ng  
RT: 6.963 min Scan# 642  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13



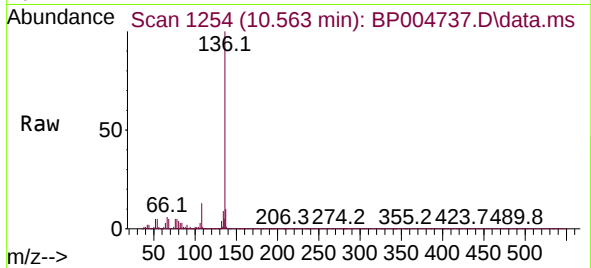
Tgt Ion: 94 Resp: 26489  
Ion Ratio Lower Upper  
94 100  
65 29.8 2.3 42.3  
66 50.7 10.9 50.9





#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.563 min Scan# 1254  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

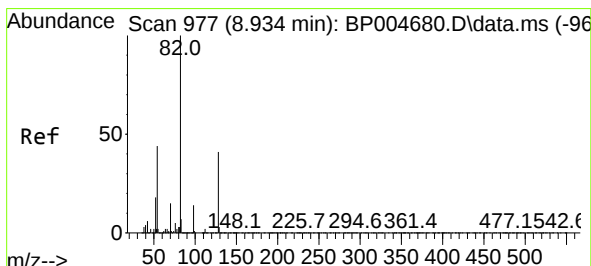
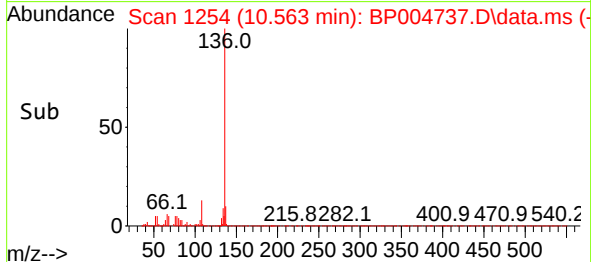
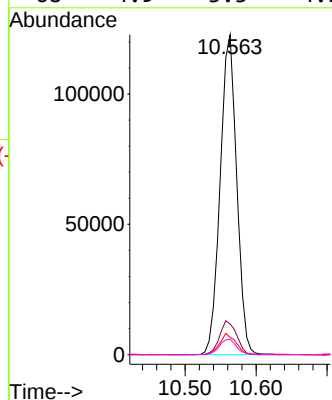
Instrument :  
BNA\_P  
ClientSampled :  
S-1



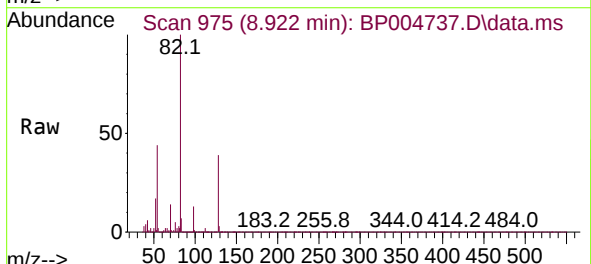
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 9.6   | 8.6   | 13.0  |
| 54      | 5.4   | 3.6   | 5.4   |
| 68      | 4.9   | 3.3   | 4.9   |

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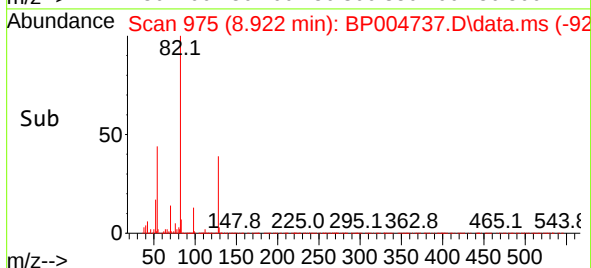
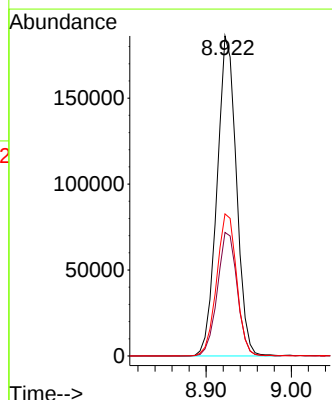
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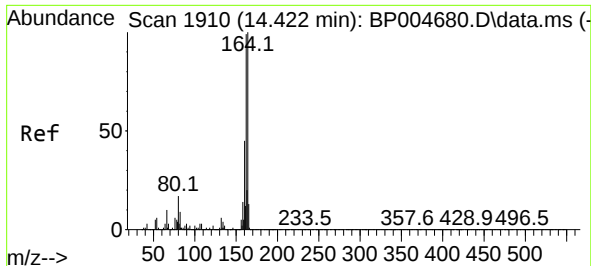


#23  
Nitrobenzene-d5  
Concen: 64.60 ng  
RT: 8.922 min Scan# 975  
Delta R.T. -0.012 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13



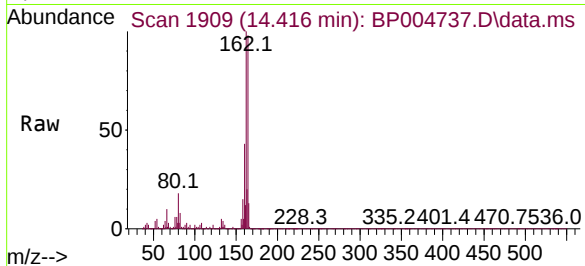
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.6  | 45.6  | 68.4# |
| 54      | 44.4  | 30.1  | 45.1  |





#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.416 min Scan# 1909  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

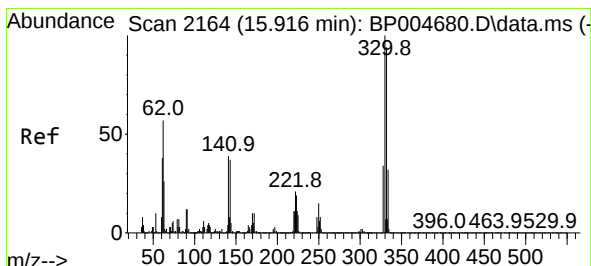
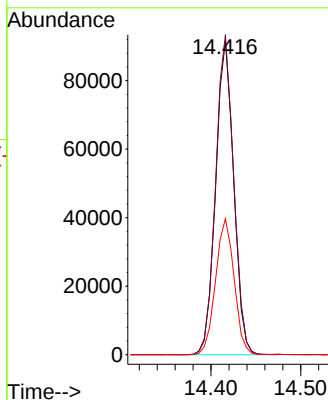
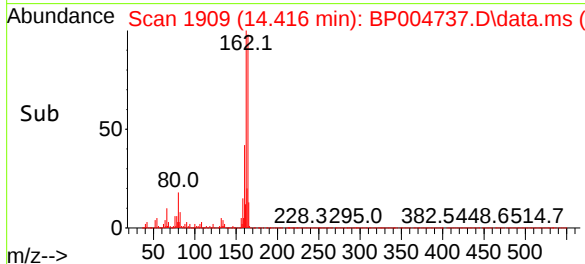
Instrument :  
BNA\_P  
ClientSampled :  
S-1



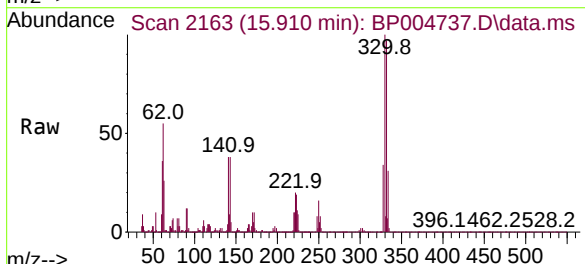
Tgt Ion:164 Resp: 127703  
Ion Ratio Lower Upper  
164 100  
162 102.0 79.4 119.2  
160 43.4 36.1 54.1

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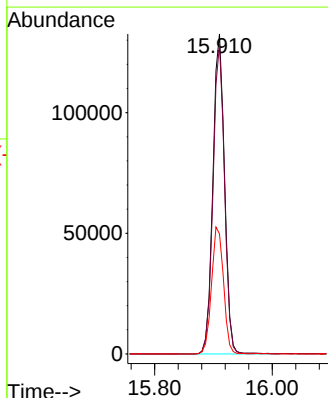
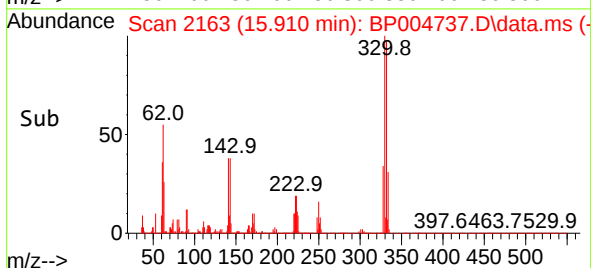
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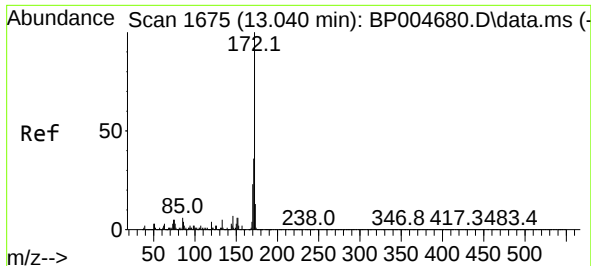


#42  
2,4,6-Tribromophenol  
Concen: 107.10 ng  
RT: 15.910 min Scan# 2163  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13



Tgt Ion:330 Resp: 181718  
Ion Ratio Lower Upper  
330 100  
332 95.4 77.1 115.7  
141 40.9 23.4 35.2#





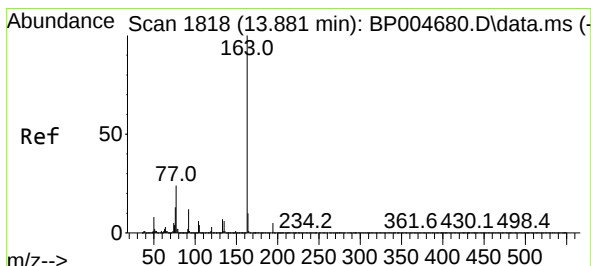
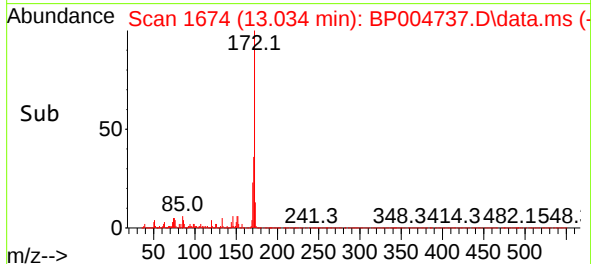
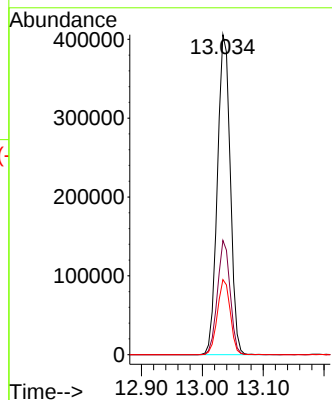
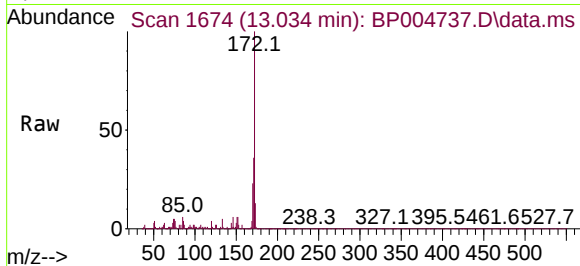
#45  
2-Fluorobiphenyl  
Concen: 56.87 ng  
RT: 13.034 min Scan# 1674  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 594195 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.7  | 28.5  | 42.7   |
| 170       | 23.4  | 19.2  | 28.8   |

Instrument :  
BNA\_P  
ClientSampleId :  
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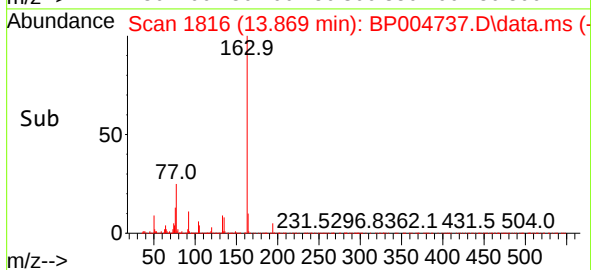
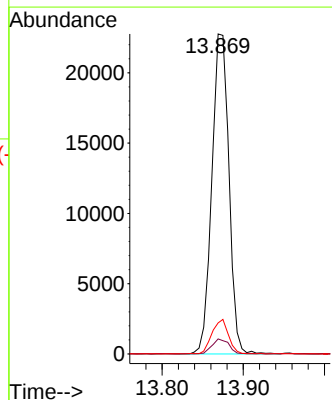
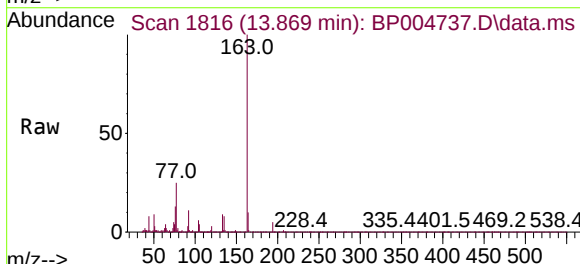
Manual Integrations  
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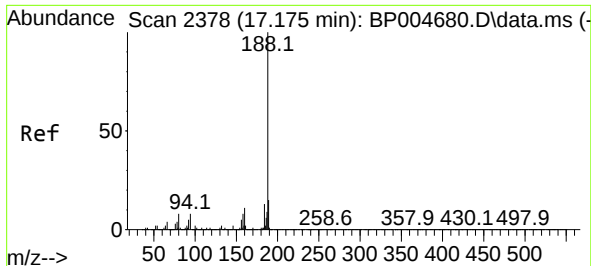
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#50  
Dimethylphthalate  
Concen: 2.96 ng  
RT: 13.869 min Scan# 1816  
Delta R.T. -0.012 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 33266 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.7   | 3.3   | 4.9   |
| 164       | 9.7   | 8.2   | 12.2  |





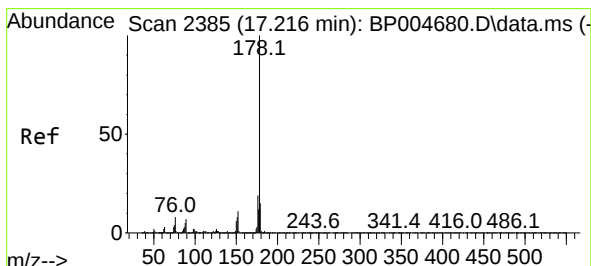
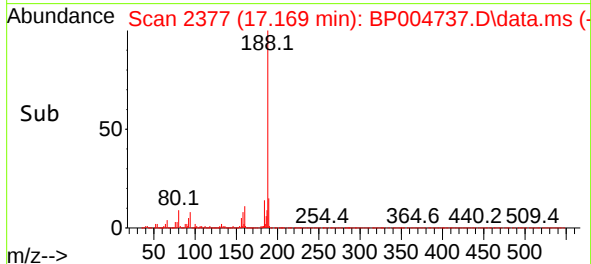
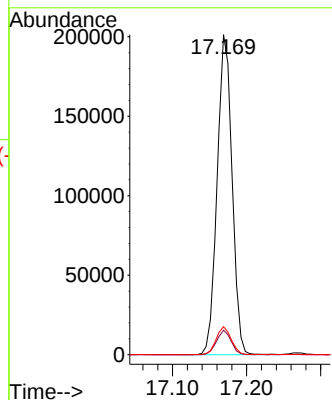
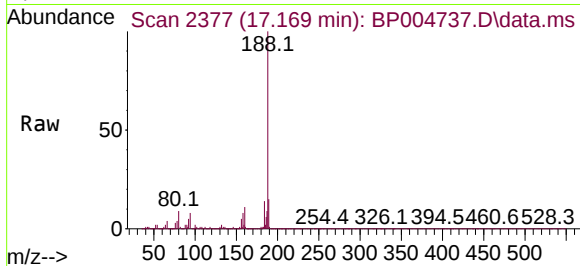
#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.169 min Scan# 2377  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 281161 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.7   | 6.2   | 9.2    |
| 80        | 8.7   | 6.2   | 9.2    |

Instrument :  
BNA\_P  
ClientSampled :  
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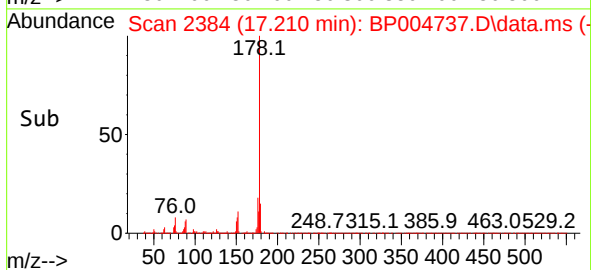
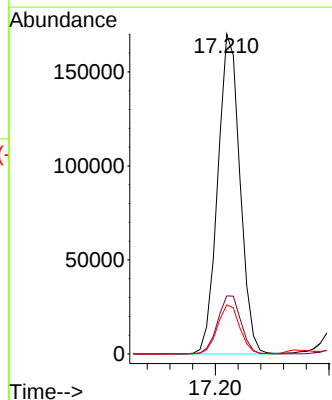
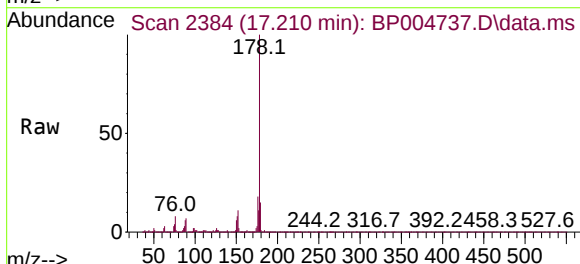
Manual Integrations  
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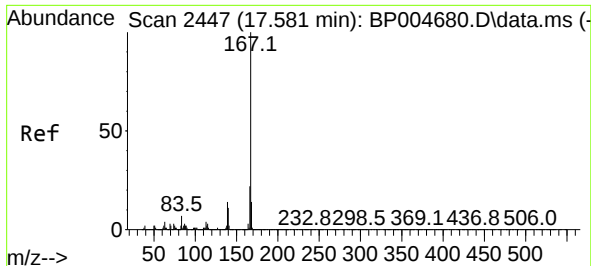
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2/15/2021 11:26:40 AM



#71  
Phenanthrene  
Concen: 13.42 ng  
RT: 17.210 min Scan# 2384  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

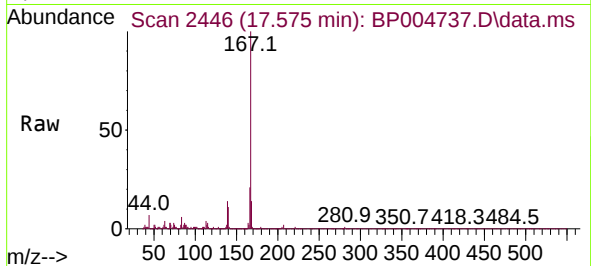
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 231063 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.2  | 15.3  | 22.9   |
| 179       | 15.3  | 12.5  | 18.7   |





#73  
 Carbazole  
 Concen: 2.56 ng  
 RT: 17.575 min Scan# 2446  
 Delta R.T. -0.006 min  
 Lab File: BP004737.D  
 Acq: 12 Feb 2021 19:13

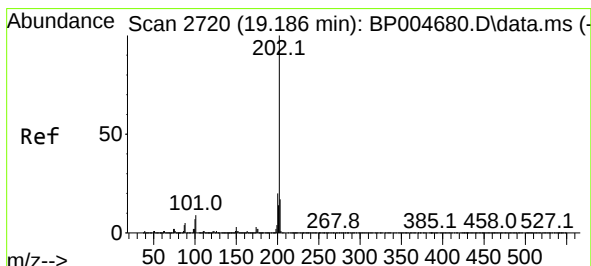
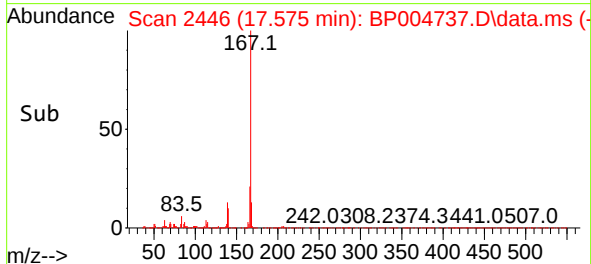
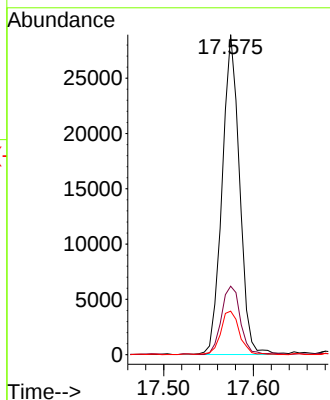
Instrument :  
 BNA\_P  
 ClientSampled :  
 S-1



Tgt Ion:167 Resp: 38923  
 Ion Ratio Lower Upper  
 167 100  
 166 21.4 17.6 26.4  
 139 13.6 10.2 15.4

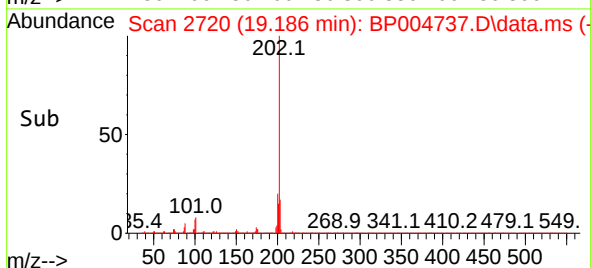
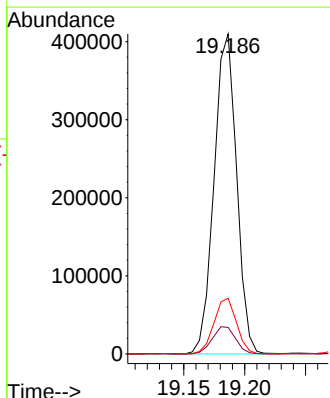
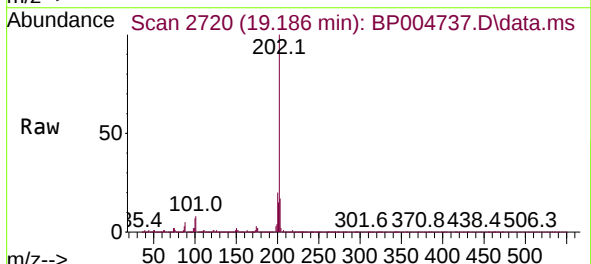
Manual Integrations  
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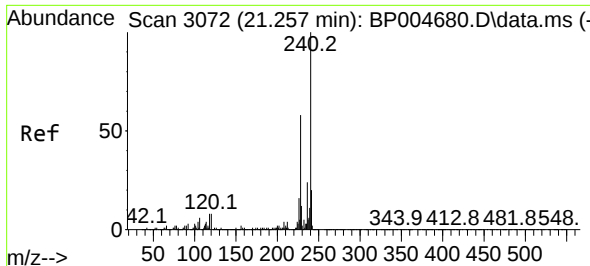
mohammad  
 2/15/2021 11:26:40 AM



#75  
 Fluoranthene  
 Concen: 25.71 ng  
 RT: 19.186 min Scan# 2720  
 Delta R.T. 0.000 min  
 Lab File: BP004737.D  
 Acq: 12 Feb 2021 19:13

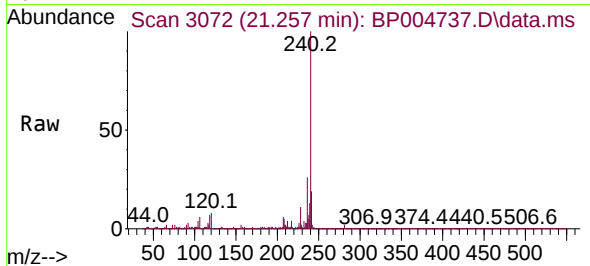
Tgt Ion:202 Resp: 527227  
 Ion Ratio Lower Upper  
 202 100  
 101 8.3 0.0 29.4  
 203 17.4 0.0 37.8





#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.257 min Scan# 3072  
Delta R.T. -0.000 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

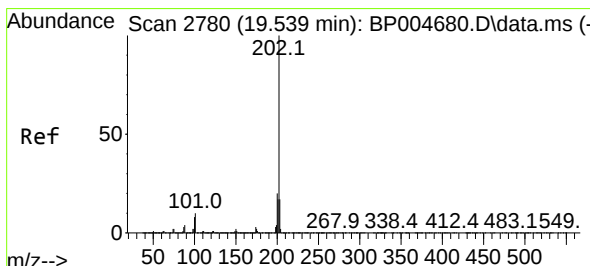
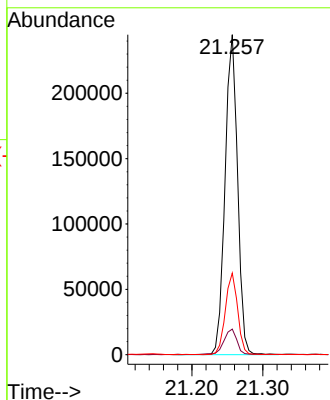
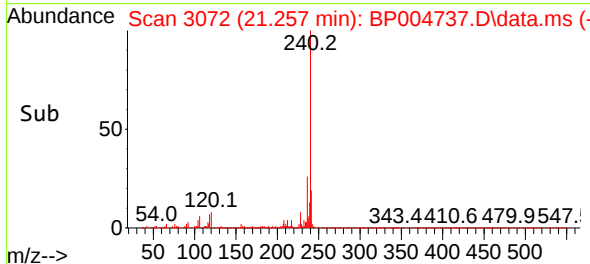
Instrument :  
BNA\_P  
ClientSampleId :  
S-1



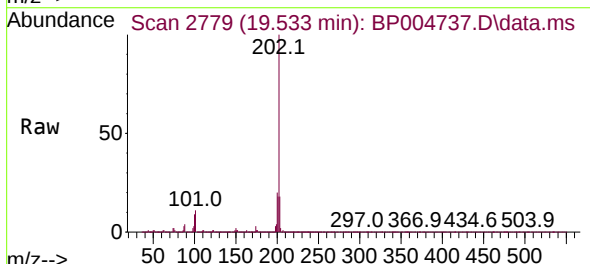
Tgt Ion:240 Resp: 297054  
Ion Ratio Lower Upper  
240 100  
120 8.0 7.8 11.6  
236 25.5 20.8 31.2

Manual Integrations  
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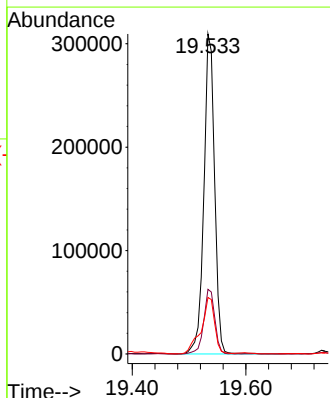
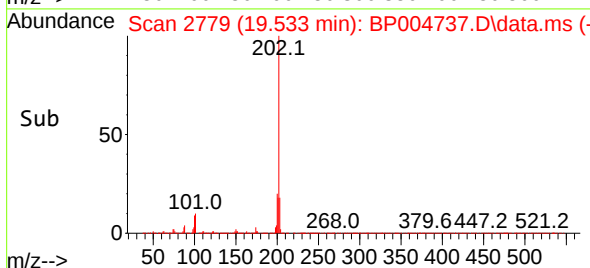
mohammad  
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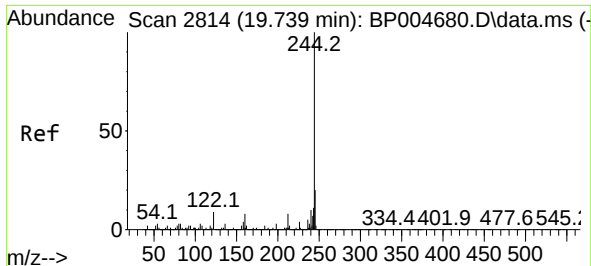


#78  
Pyrene  
Concen: 19.32 ng  
RT: 19.533 min Scan# 2779  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13



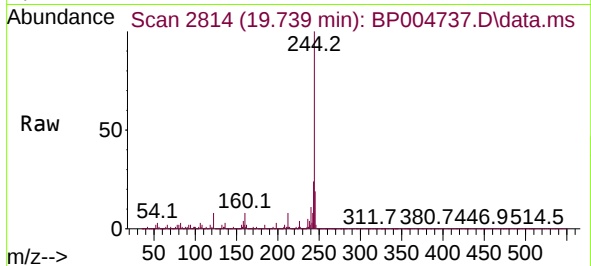
Tgt Ion:202 Resp: 404704  
Ion Ratio Lower Upper  
202 100  
200 20.2 17.1 25.7  
203 17.6 14.2 21.2





#79  
 Terphenyl-d14  
 Concen: 48.35 ng  
 RT: 19.739 min Scan# 2814  
 Delta R.T. -0.000 min  
 Lab File: BP004737.D  
 Acq: 12 Feb 2021 19:13

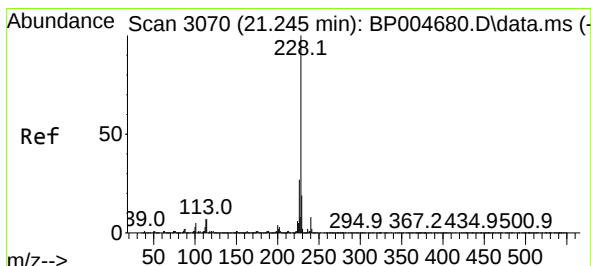
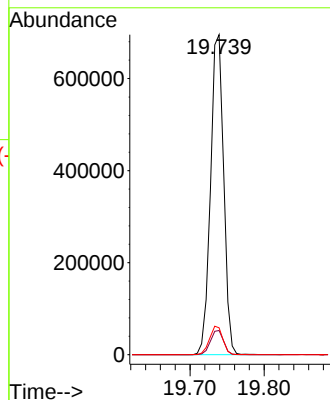
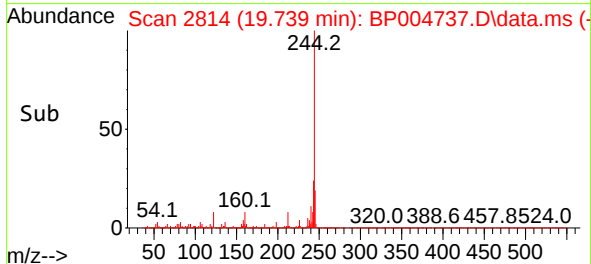
Instrument :  
 BNA\_P  
 ClientSampled :  
 S-1



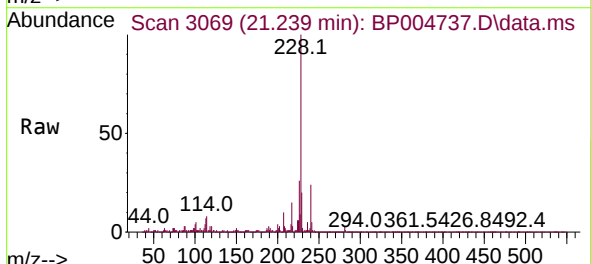
Tgt Ion:244 Resp: 855105  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 5.8 8.6  
 122 8.4 7.8 11.8

Manual Integrations  
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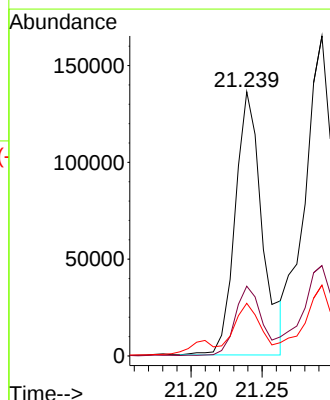
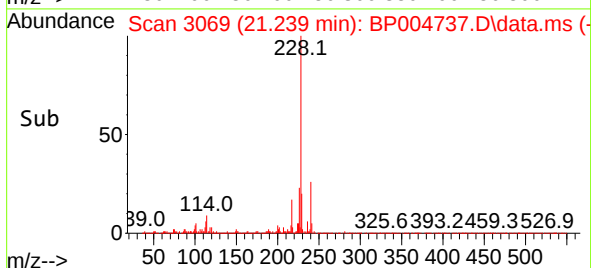
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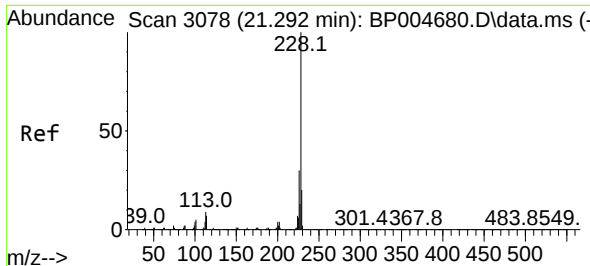


#81  
 Benzo(a)anthracene  
 Concen: 8.53 ng  
 RT: 21.239 min Scan# 3069  
 Delta R.T. -0.006 min  
 Lab File: BP004737.D  
 Acq: 12 Feb 2021 19:13



Tgt Ion:228 Resp: 179676  
 Ion Ratio Lower Upper  
 228 100  
 226 26.4 22.1 33.1  
 229 19.9 15.9 23.9





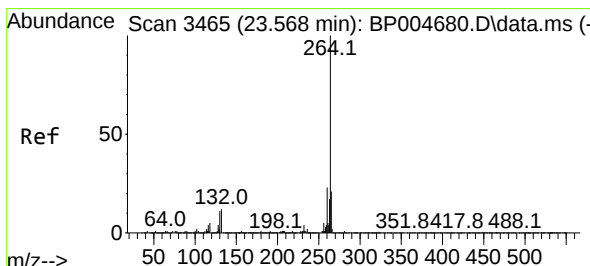
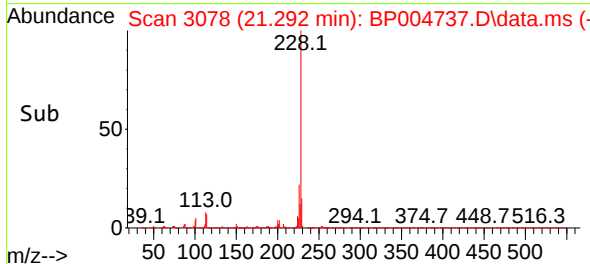
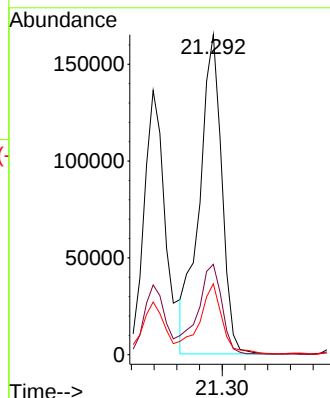
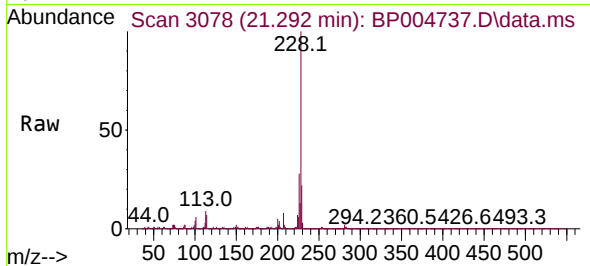
#83  
Chrysene  
Concen: 11.09 ng  
RT: 21.292 min Scan# 3078  
Delta R.T. 0.000 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 226193 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.3  | 24.4  | 36.6   |
| 229       | 22.2  | 15.8  | 23.6   |

Instrument :  
BNA\_P  
ClientSampled :  
S-1

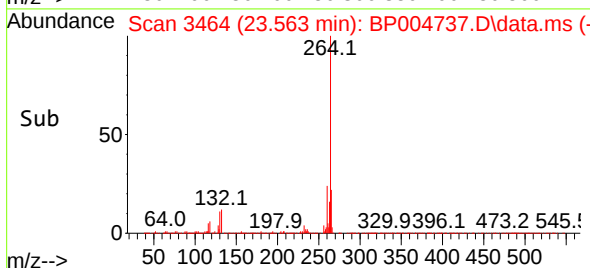
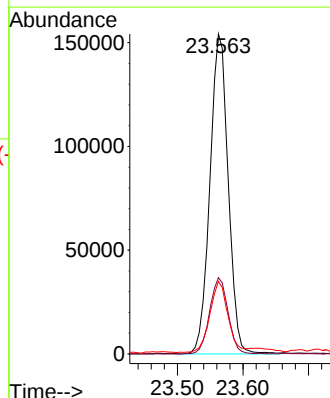
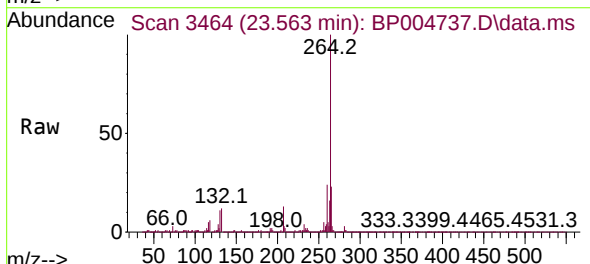
Manual Integrations  
APPROVED

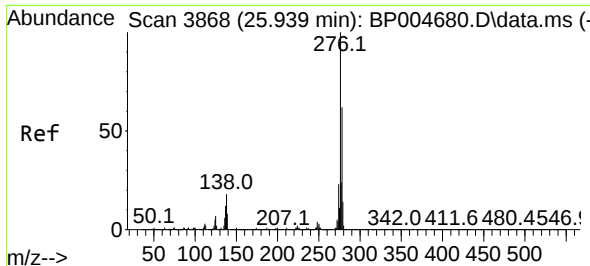
mohammad  
2/15/2021 11:26:40 AM



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.563 min Scan# 3464  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 298883 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 18.8  | 28.2   |
| 265       | 22.7  | 17.4  | 26.2   |





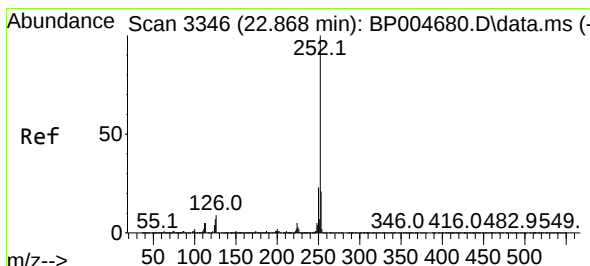
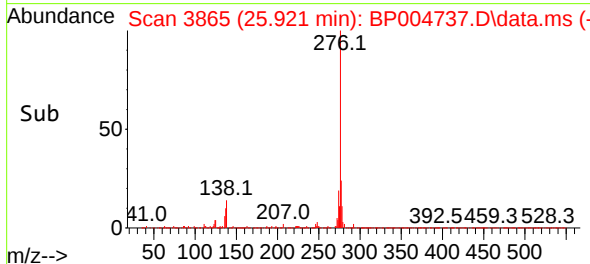
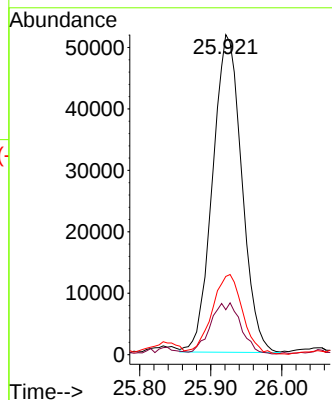
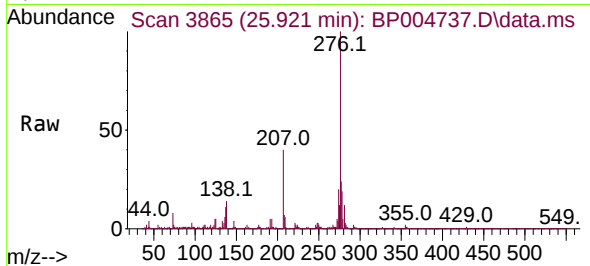
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.18 ng  
RT: 25.921 min Scan# 3865  
Delta R.T. -0.018 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

Tgt Ion: 276 Resp: 147578  
Ion Ratio Lower Upper  
276 100  
138 16.9 18.7 28.1#  
277 26.1 20.4 30.6

Instrument :  
BNA\_P  
ClientSampled :  
S-1

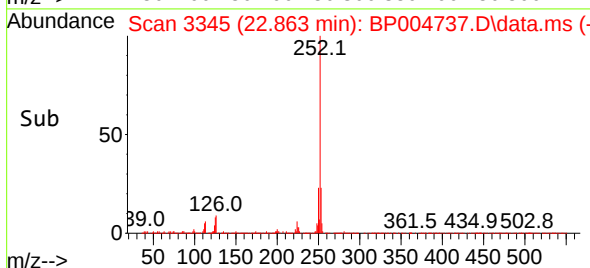
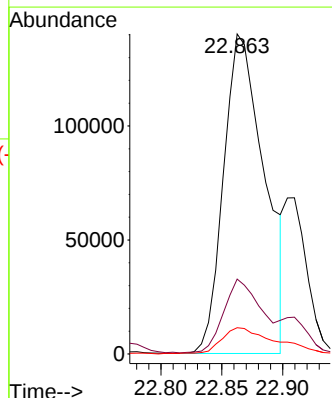
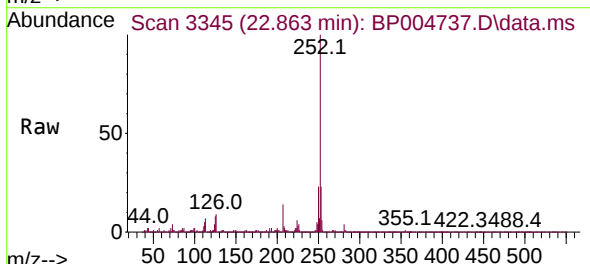
Manual Integrations  
APPROVED

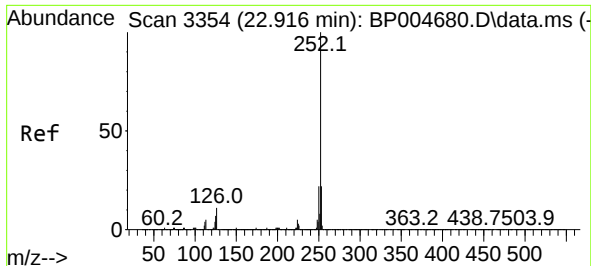
mohammad  
2/15/2021 11:26:40 AM



#88  
Benzo(b)fluoranthene  
Concen: 14.93 ng  
RT: 22.863 min Scan# 3345  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

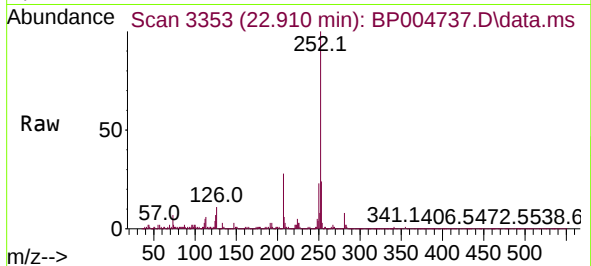
Tgt Ion: 252 Resp: 326860  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.6 26.4  
125 8.2 7.3 10.9





#89  
Benzo(k)fluoranthene  
Concen: 4.09 ng m  
RT: 22.910 min Scan# 3353  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

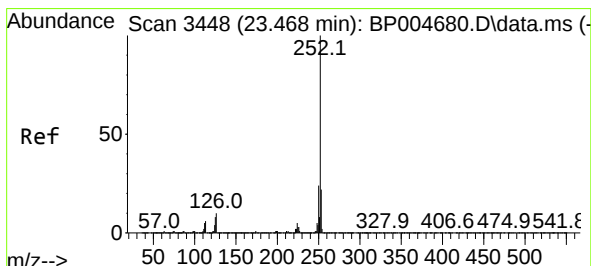
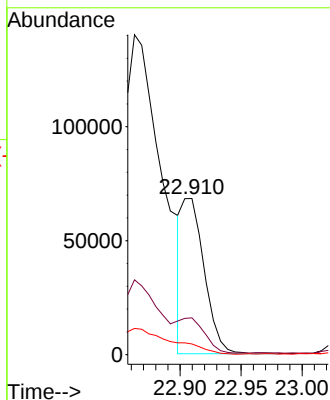
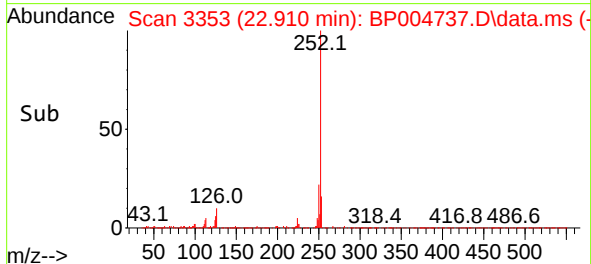
Instrument :  
BNA\_P  
ClientSampled :  
S-1



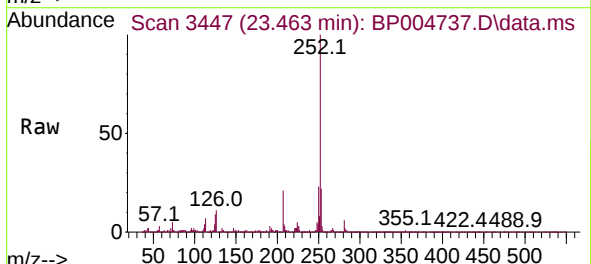
Tgt Ion:252 Resp: 86045  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.8 26.8  
125 6.9 7.4 11.2#

Manual Integrations  
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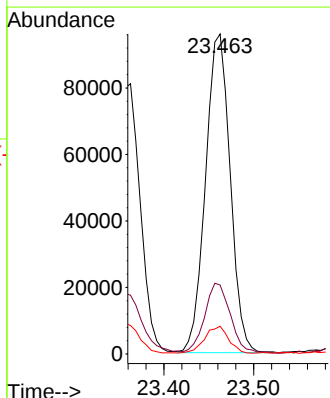
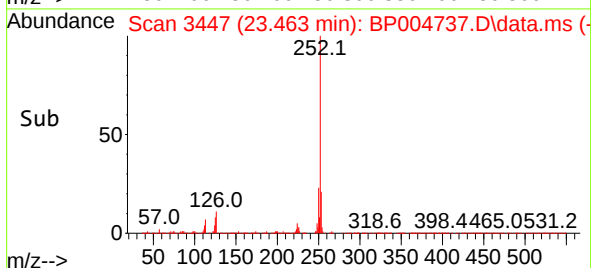
mohammad  
2/15/2021 11:26:40 AM

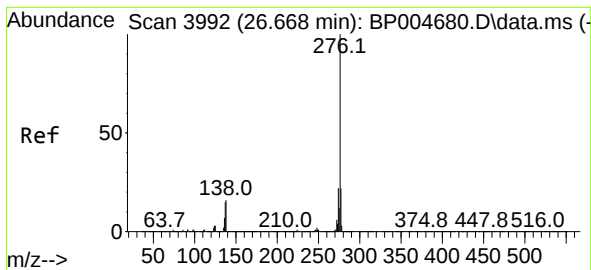


#90  
Benzo(a)pyrene  
Concen: 9.26 ng  
RT: 23.463 min Scan# 3447  
Delta R.T. -0.006 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13



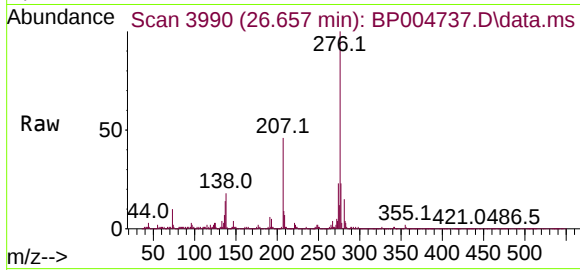
Tgt Ion:252 Resp: 183107  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.4 26.0  
125 8.7 8.2 12.4





#92  
Benzo(g,h,i)perylene  
Concen: 7.73 ng  
RT: 26.657 min Scan# 3990  
Delta R.T. -0.012 min  
Lab File: BP004737.D  
Acq: 12 Feb 2021 19:13

Instrument :  
BNA\_P  
ClientSampled :  
S-1



Tgt Ion: 276 Resp: 147733  
Ion Ratio Lower Upper  
276 100  
277 23.0 19.0 28.6  
138 18.2 16.6 24.8

Manual Integrations  
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