

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP093020\  
 Data File : BP003421.D  
 Acq On : 30 Sep 2020 19:29  
 Operator : CG/JU  
 Sample : L4179-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 B-9(2-3)

Manual Integrations  
 APPROVED

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 10/1/2020 1:33:21 PM

Quant Time: Oct 01 10:14:22 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 01 10:05:32 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.534  | 152  | 127594   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.316 | 136  | 502065   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.192 | 164  | 274507   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.945 | 188  | 512087   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.069 | 240  | 504383   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.339 | 264  | 545164   | 20.00 | ng    | 0.08     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.152  | 112  | 680582   | 93.14 | ng    | 0.00     |
| 7) Phenol-d6                | 6.746  | 99   | 869208   | 89.24 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.687  | 82   | 584991   | 68.45 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.698 | 330  | 266999   | 63.77 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.804 | 172  | 1200624  | 63.97 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.539 | 244  | 1347234  | 55.65 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 49) Acenaphthylene          | 13.910 | 152  | 73868    | 2.85  | ng    | 100      |
| 50) Dimethylphthalate       | 13.657 | 163  | 185779   | 8.48  | ng    | 99       |
| 71) Phenanthrene            | 16.992 | 178  | 269773   | 9.68  | ng    | 99       |
| 72) Anthracene              | 17.086 | 178  | 76295    | 2.78  | ng    | 99       |
| 75) Fluoranthene            | 18.980 | 202  | 607995   | 17.36 | ng    | 98       |
| 78) Pyrene                  | 19.333 | 202  | 557180   | 17.71 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.051 | 228  | 329041   | 10.09 | ng    | 97       |
| 83) Chrysene                | 21.104 | 228  | 334427   | 10.68 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.721 | 276  | 214348   | 5.19  | ng    | # 86     |
| 88) Benzo(b)fluoranthene    | 22.651 | 252  | 486166m  | 14.12 | ng    |          |
| 89) Benzo(k)fluoranthene    | 22.680 | 252  | 126815m  | 3.84  | ng    |          |
| 90) Benzo(a)pyrene          | 23.239 | 252  | 317300   | 9.77  | ng    | 94       |
| 91) Dibenzo(a,h)anthracene  | 25.721 | 278  | 111796m  | 3.28  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 26.504 | 276  | 232113m  | 6.82  | ng    |          |
| -----                       |        |      |          |       |       |          |

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

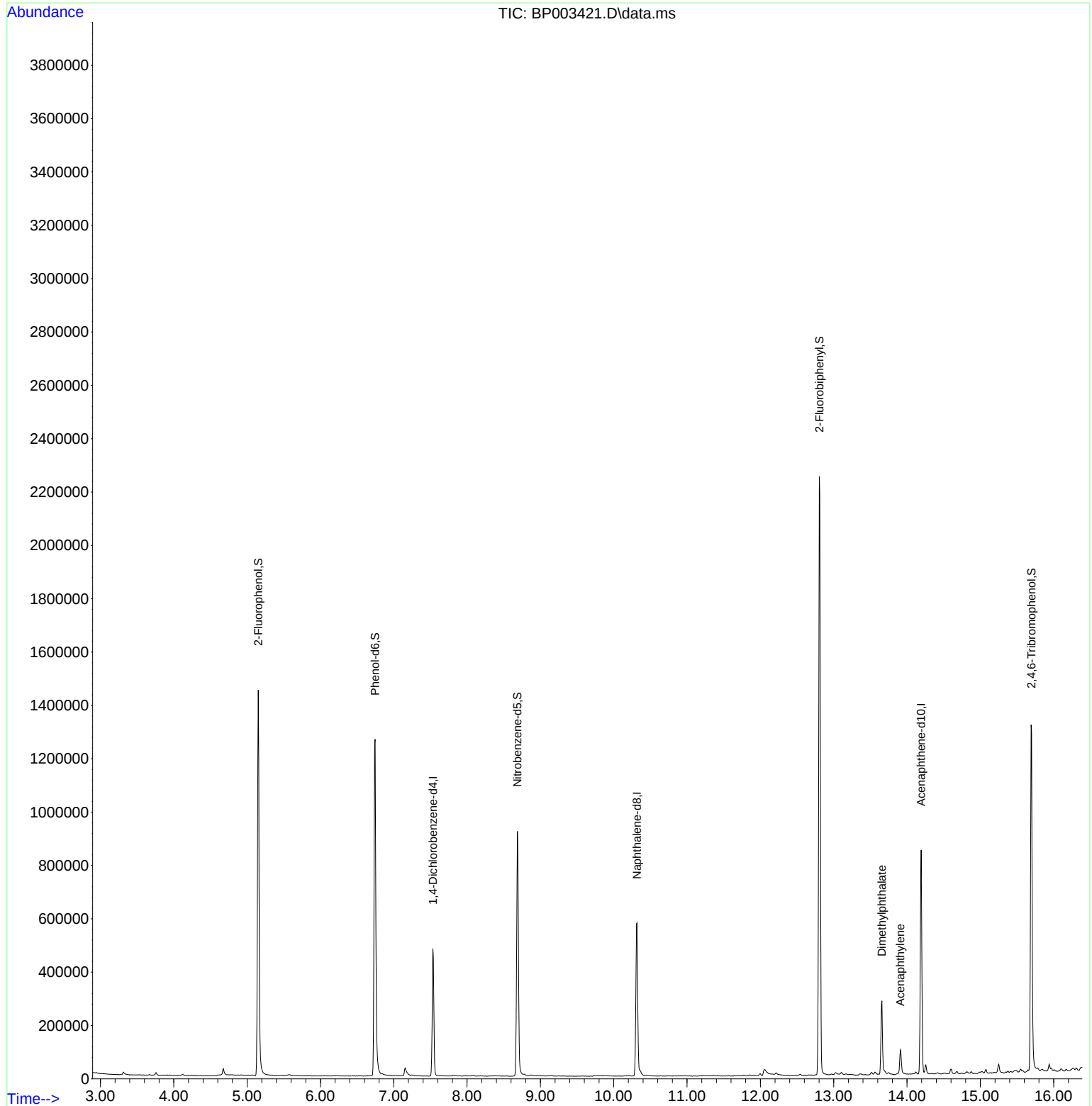
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Data File : BP003421.D  
Acq On : 30 Sep 2020 19:29  
Operator : CG/JU  
Sample : L4179-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)

Manual Integrations  
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Quant Time: Oct 01 10:14:22 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 01 10:05:32 2020  
Response via : Initial Calibration



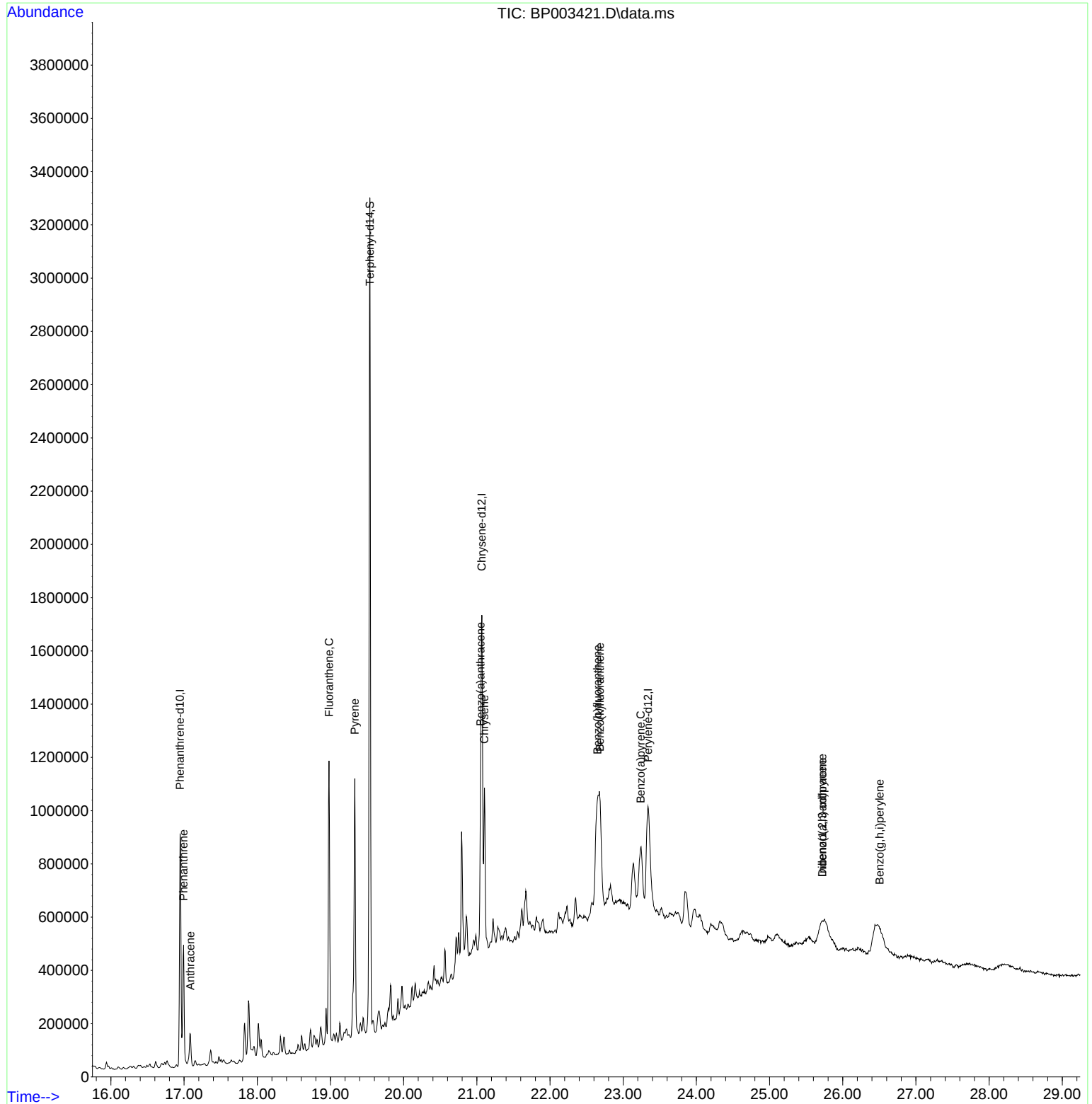
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Data File : BP003421.D  
Acq On : 30 Sep 2020 19:29  
Operator : CG/JU  
Sample : L4179-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)

Manual Integrations  
APPROVED

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10/1/2020 1:33:21 PM

Quant Time: Oct 01 10:14:22 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 01 10:05:32 2020  
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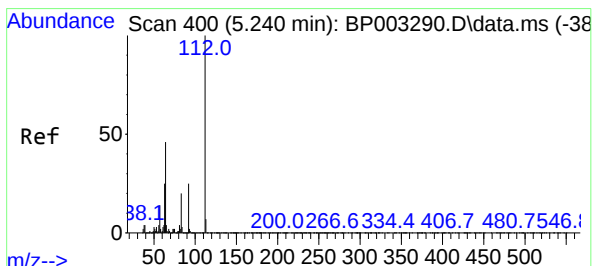
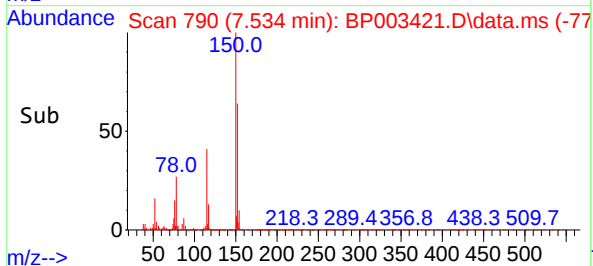
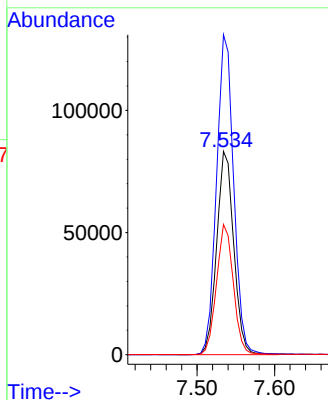
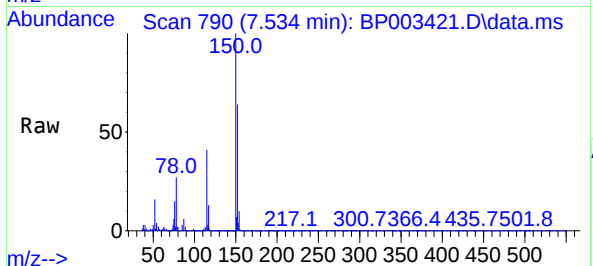
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.534 min Scan# 790  
Delta R.T. 0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 127594 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 150      | 157.4 | 123.8 | 185.6  |
| 115      | 64.1  | 43.8  | 65.6   |

Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)

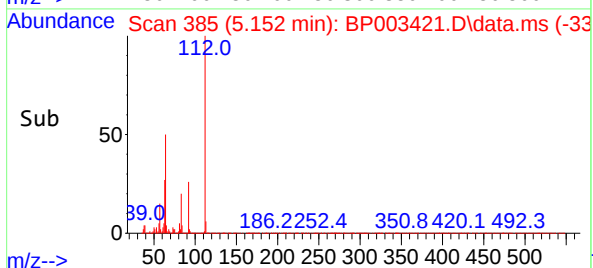
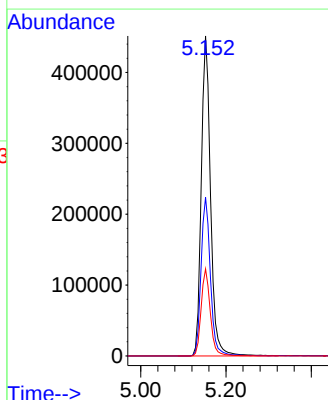
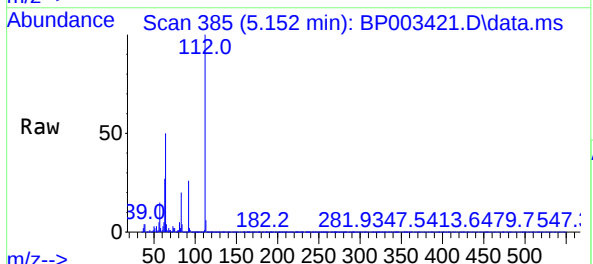
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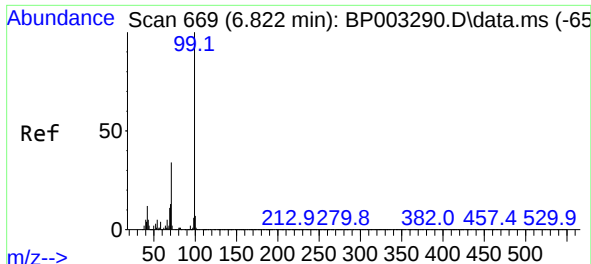
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#5  
2-Fluorophenol  
Concen: 93.14 ng  
RT: 5.152 min Scan# 385  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 680582 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 49.6  | 32.8  | 49.2#  |
| 63       | 27.2  | 17.0  | 25.4#  |





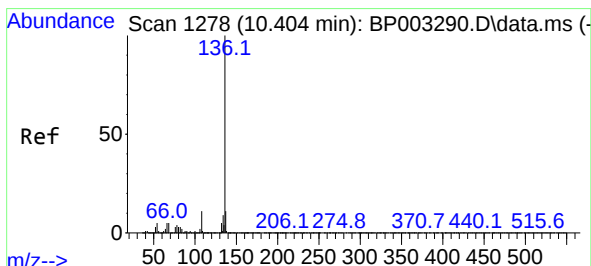
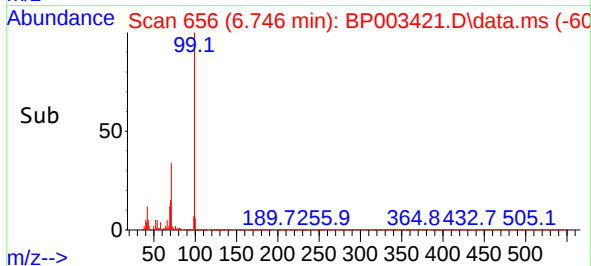
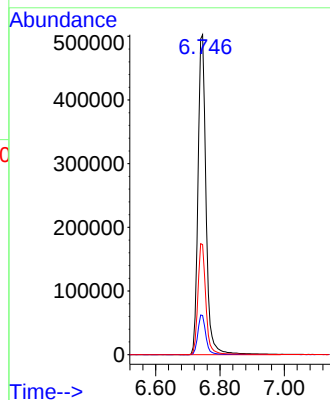
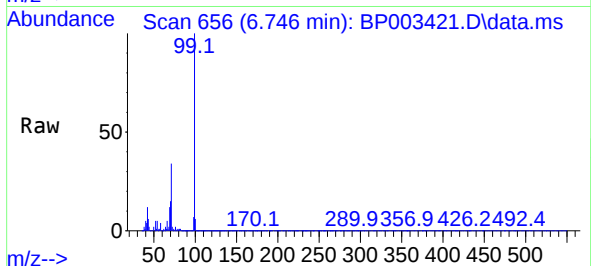
#7  
Phenol-d6  
Concen: 89.24 ng  
RT: 6.746 min Scan# 656  
Delta R.T. 0.006 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

Tgt Ion: 99 Resp: 869208  
Ion Ratio Lower Upper  
99 100  
42 12.3 8.6 13.0  
71 34.4 23.4 35.2

Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)

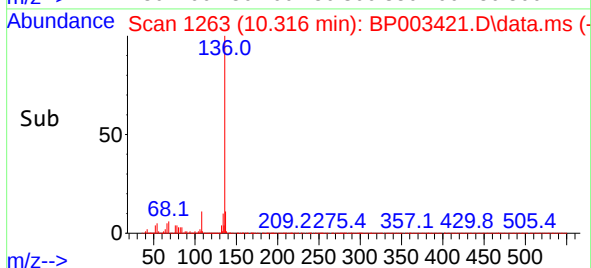
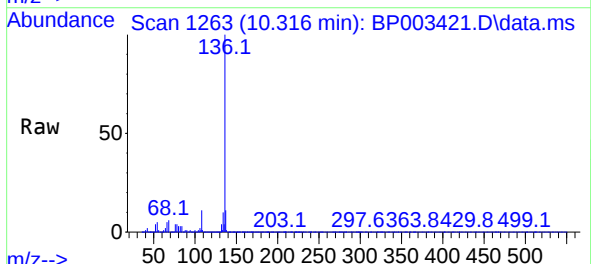
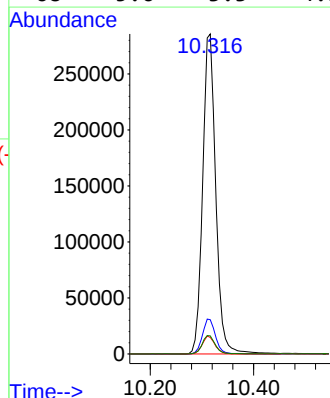
Manual Integrations  
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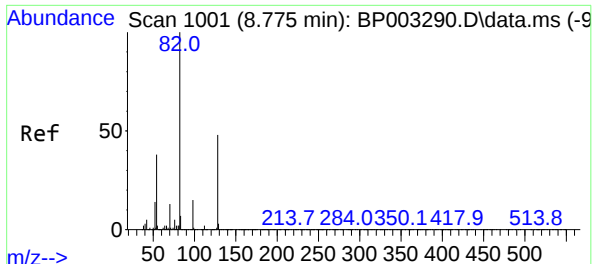
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.316 min Scan# 1263  
Delta R.T. 0.006 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

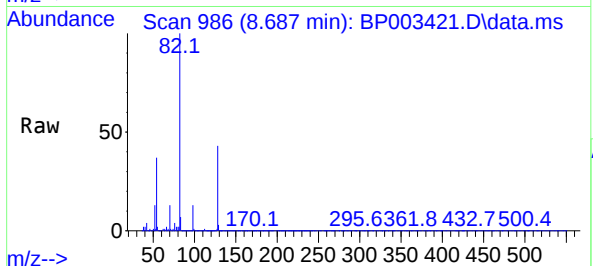
Tgt Ion: 136 Resp: 502065  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.6 13.0  
54 5.2 3.6 5.4  
68 5.6 3.3 4.9





#23  
Nitrobenzene-d5  
Concen: 68.45 ng  
RT: 8.687 min Scan# 986  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

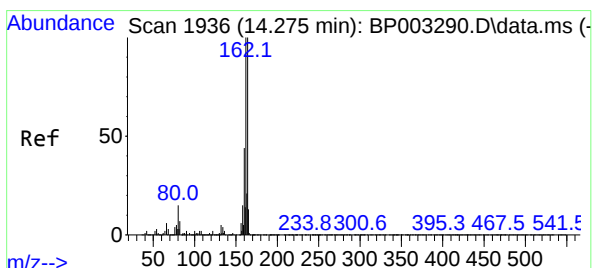
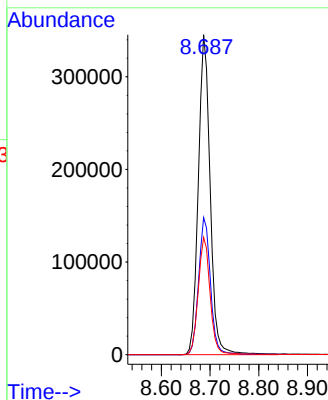
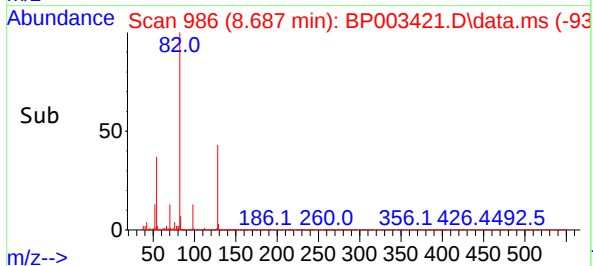
Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)



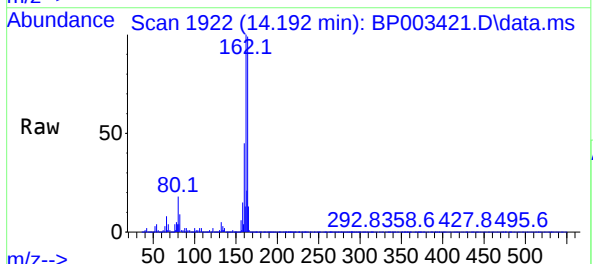
Tgt Ion: 82 Resp: 584991  
Ion Ratio Lower Upper  
82 100  
128 42.8 45.6 68.4#  
54 36.7 30.1 45.1

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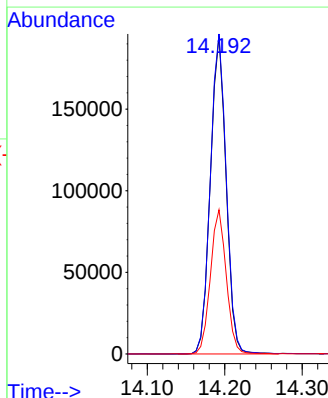
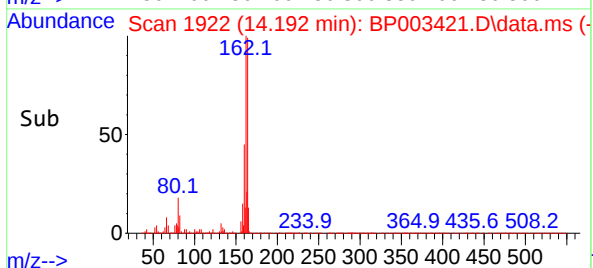
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.192 min Scan# 1922  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29



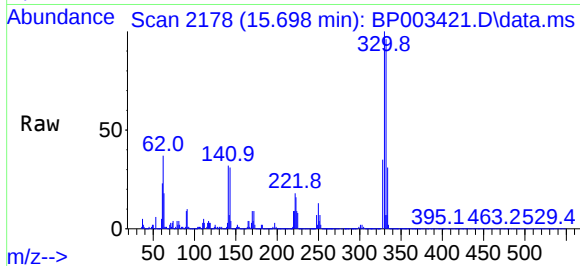
Tgt Ion: 164 Resp: 274507  
Ion Ratio Lower Upper  
164 100  
162 100.7 79.4 119.2  
160 45.4 36.1 54.1





#42  
2,4,6-Tribromophenol  
Concen: 63.77 ng  
RT: 15.698 min Scan# 2178  
Delta R.T. 0.006 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

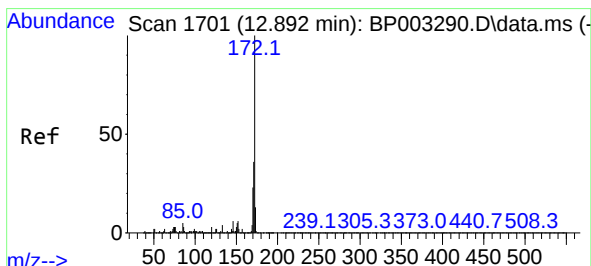
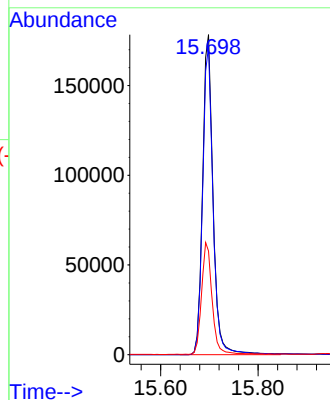
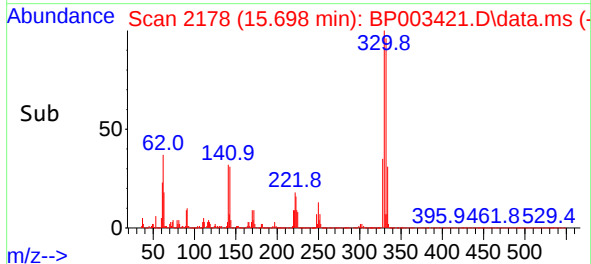
Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)



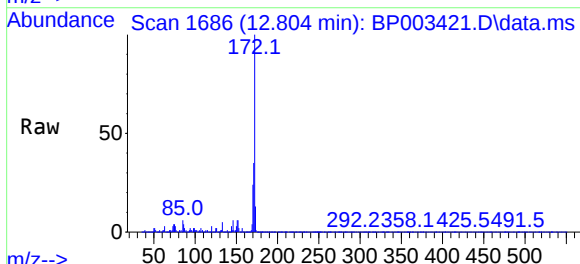
Tgt Ion:330 Resp: 266999  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.1 115.7  
141 35.1 23.4 35.2

Manual Integrations  
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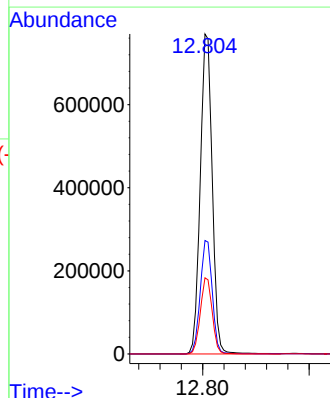
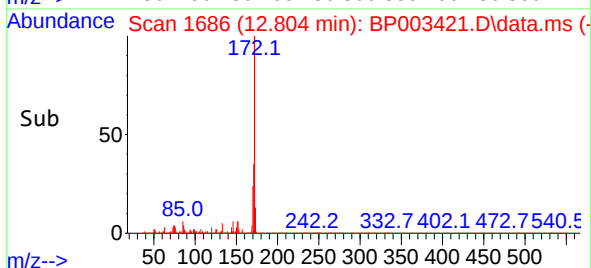
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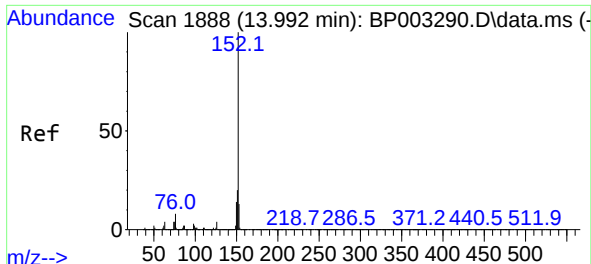


#45  
2-Fluorobiphenyl  
Concen: 63.97 ng  
RT: 12.804 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29



Tgt Ion:172 Resp: 1200624  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.5 42.7  
170 23.8 19.2 28.8





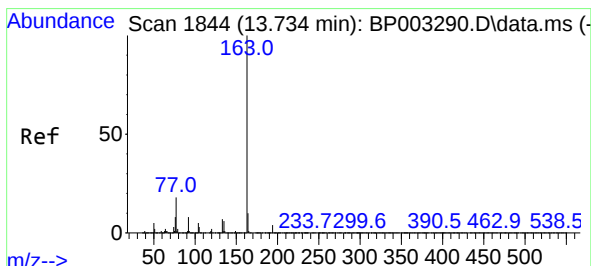
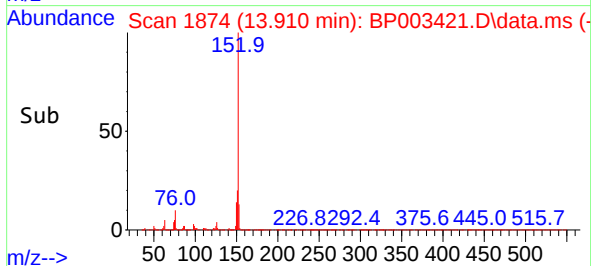
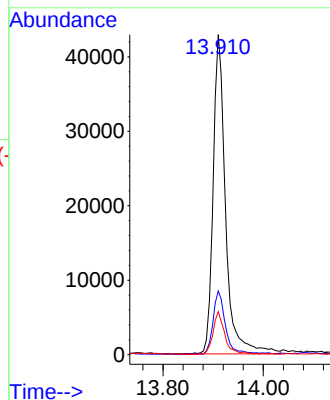
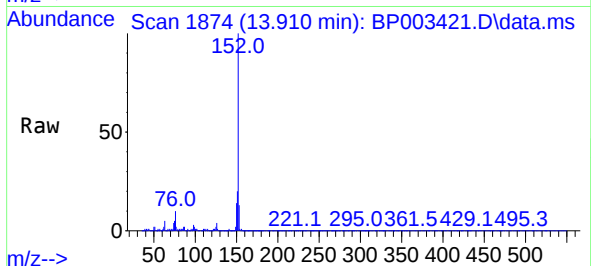
#49  
Acenaphthylene  
Concen: 2.85 ng  
RT: 13.910 min Scan# 1874  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 73868 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.9  | 15.9  | 23.9  |
| 153       | 13.4  | 10.5  | 15.7  |

Instrument :  
BNA\_P  
ClientSampleId :  
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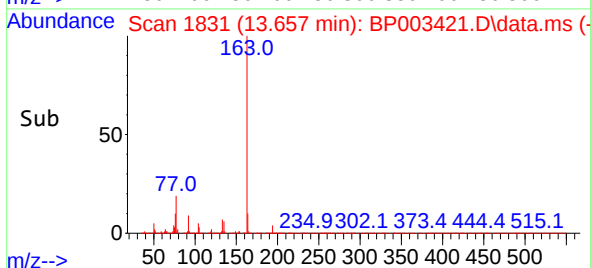
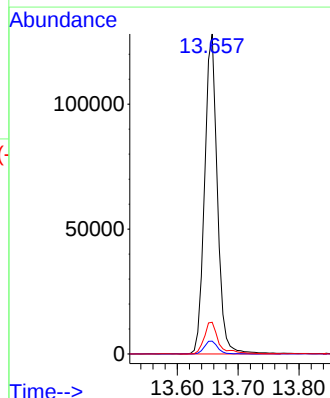
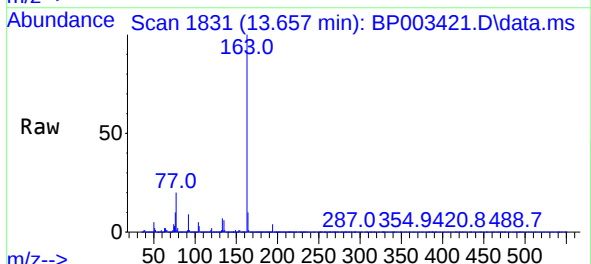
Manual Integrations  
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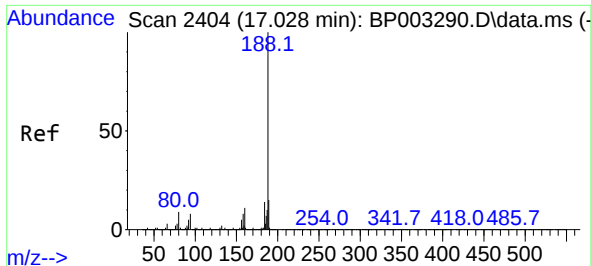
mohammad  
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#50  
Dimethylphthalate  
Concen: 8.48 ng  
RT: 13.657 min Scan# 1831  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

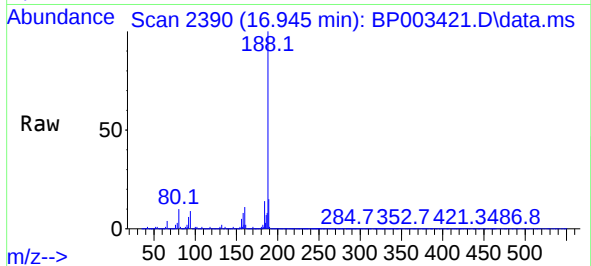
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 185779 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.0   | 3.3   | 4.9    |
| 164       | 9.9   | 8.2   | 12.2   |





#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.945 min Scan# 2390  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

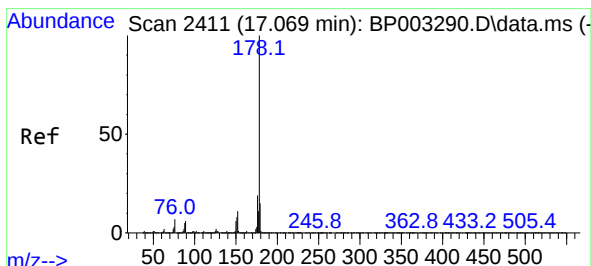
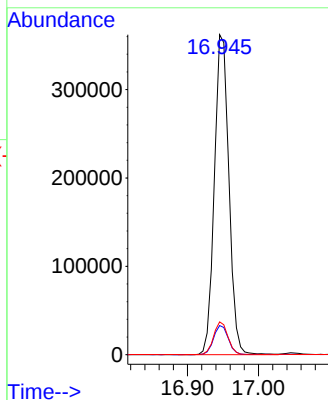
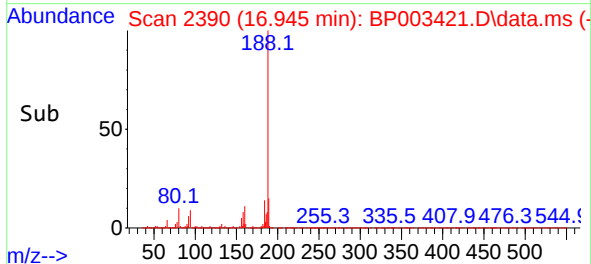
Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)



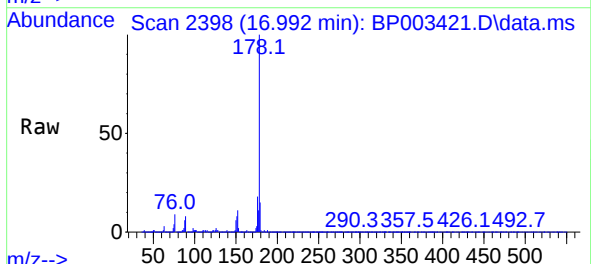
Tgt Ion:188 Resp: 512087  
Ion Ratio Lower Upper  
188 100  
94 9.1 6.2 9.2  
80 10.3 6.2 9.2#

Manual Integrations  
APPROVED

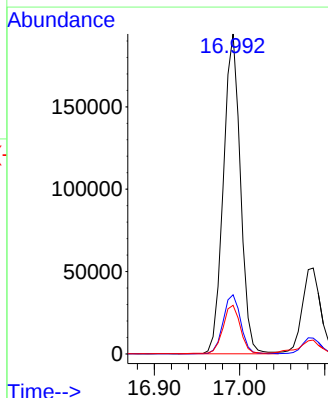
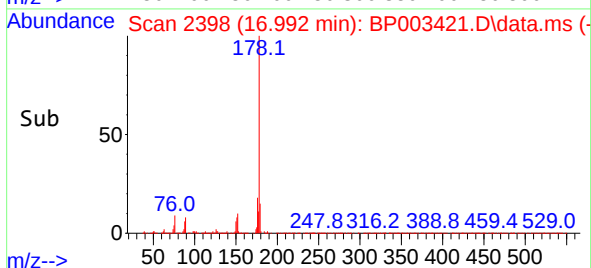
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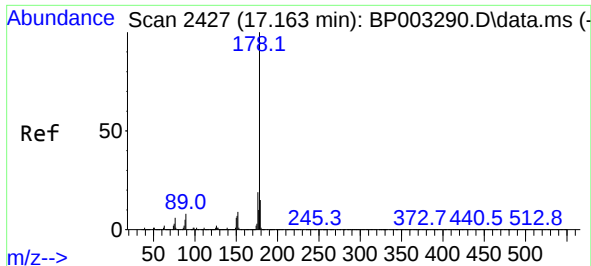


#71  
Phenanthrene  
Concen: 9.68 ng  
RT: 16.992 min Scan# 2398  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29



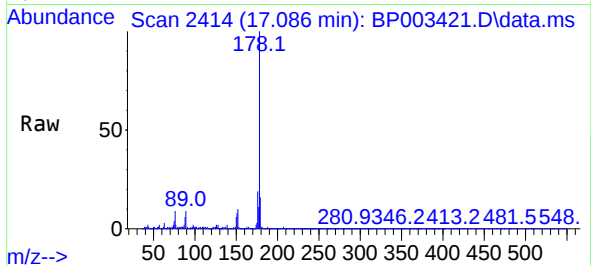
Tgt Ion:178 Resp: 269773  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.3 22.9  
179 15.2 12.5 18.7





#72  
 Anthracene  
 Concen: 2.78 ng  
 RT: 17.086 min Scan# 2414  
 Delta R.T. 0.006 min  
 Lab File: BP003421.D  
 Acq: 30 Sep 2020 19:29

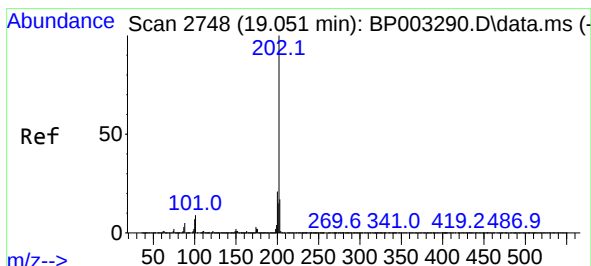
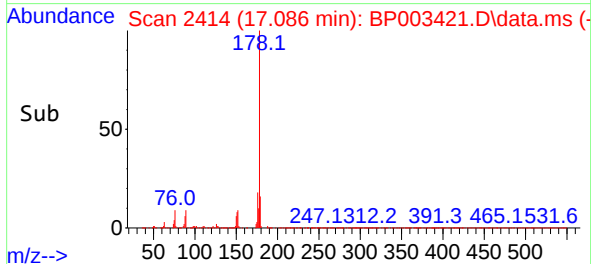
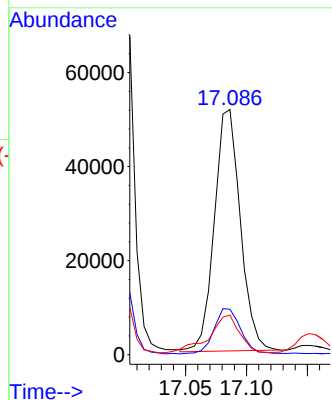
Instrument :  
 BNA\_P  
 ClientSampleId :  
 B-9(2-3)



Tgt Ion:178 Resp: 76295  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 15.0 22.4  
 179 16.2 12.5 18.7

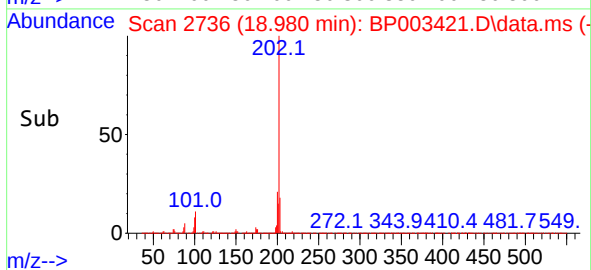
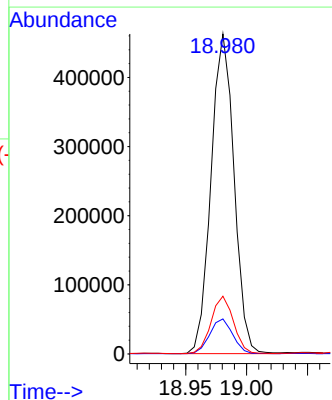
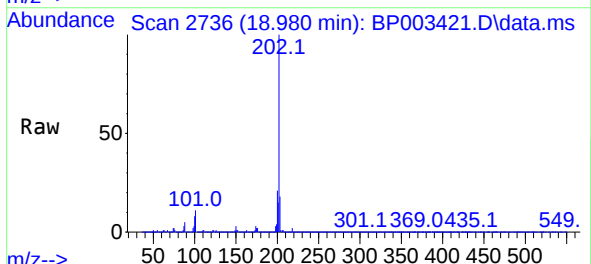
Manual Integrations  
 APPROVED

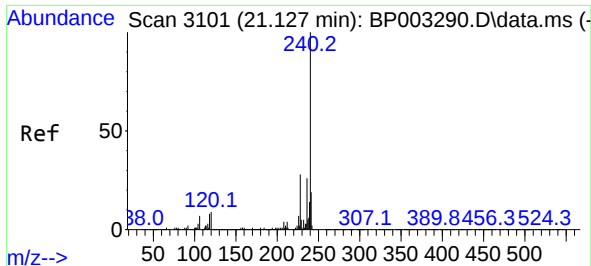
mohammad  
 10/1/2020 1:33:21 PM



#75  
 Fluoranthene  
 Concen: 17.36 ng  
 RT: 18.980 min Scan# 2736  
 Delta R.T. -0.000 min  
 Lab File: BP003421.D  
 Acq: 30 Sep 2020 19:29

Tgt Ion:202 Resp: 607995  
 Ion Ratio Lower Upper  
 202 100  
 101 11.0 0.0 29.4  
 203 18.0 0.0 37.8





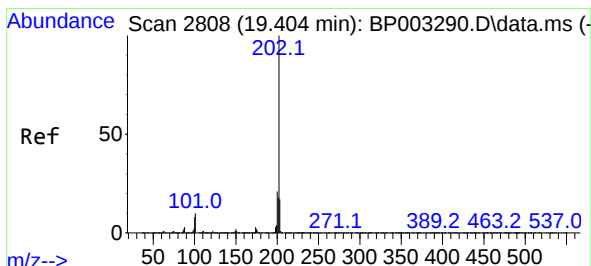
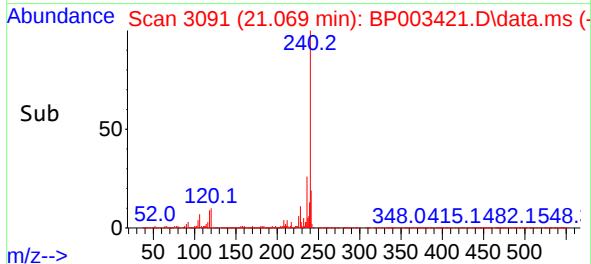
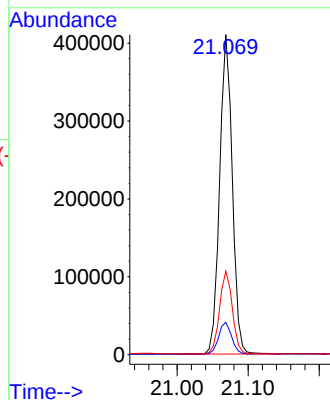
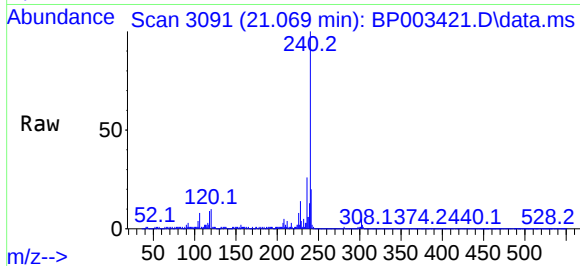
#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.069 min Scan# 3091  
Delta R.T. 0.006 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

Tgt Ion:240 Resp: 504383  
Ion Ratio Lower Upper  
240 100  
120 10.1 7.8 11.6  
236 26.1 20.8 31.2

Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)

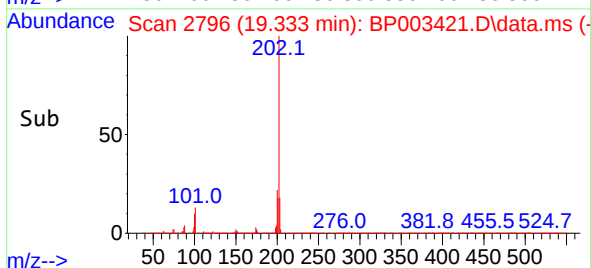
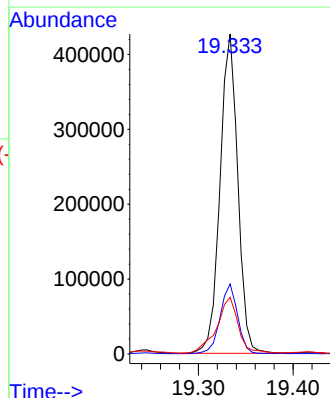
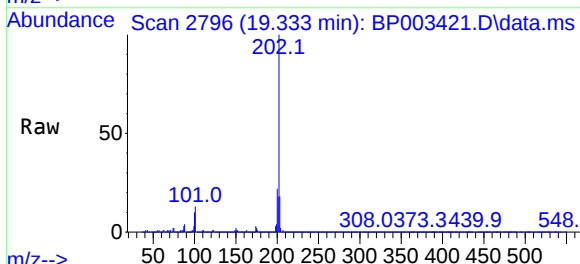
Manual Integrations  
APPROVED

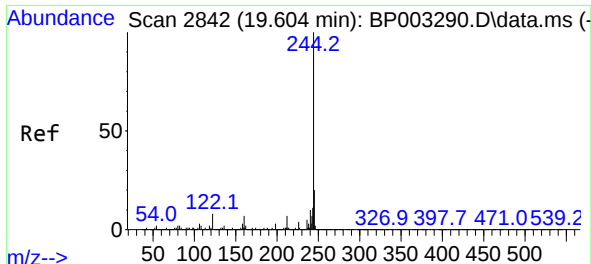
mohammad  
10/1/2020 1:33:21 PM



#78  
Pyrene  
Concen: 17.71 ng  
RT: 19.333 min Scan# 2796  
Delta R.T. -0.000 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

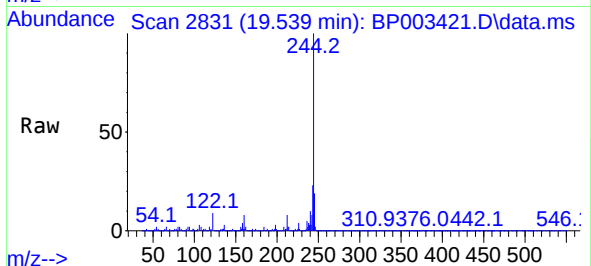
Tgt Ion:202 Resp: 557180  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.1 25.7  
203 17.7 14.2 21.2





#79  
 Terphenyl-d14  
 Concen: 55.65 ng  
 RT: 19.539 min Scan# 2831  
 Delta R.T. 0.006 min  
 Lab File: BP003421.D  
 Acq: 30 Sep 2020 19:29

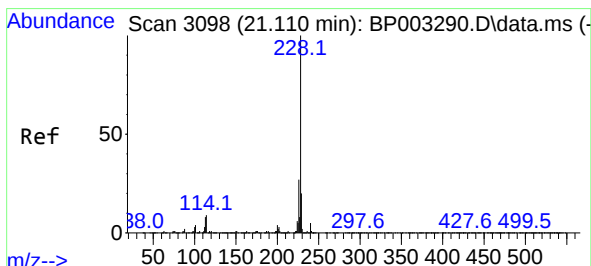
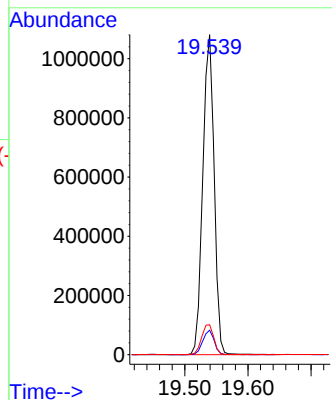
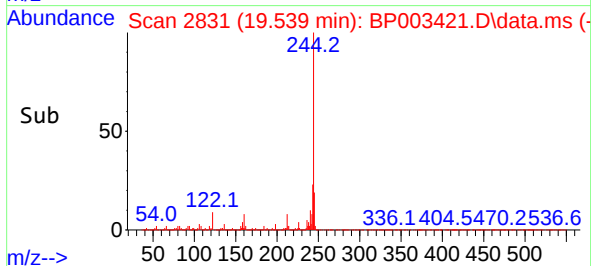
Instrument :  
 BNA\_P  
 ClientSampleId :  
 B-9(2-3)



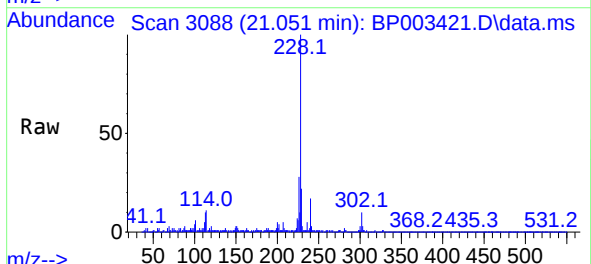
Tgt Ion:244 Resp: 1347234  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 5.8 8.6  
 122 9.3 7.8 11.8

Manual Integrations  
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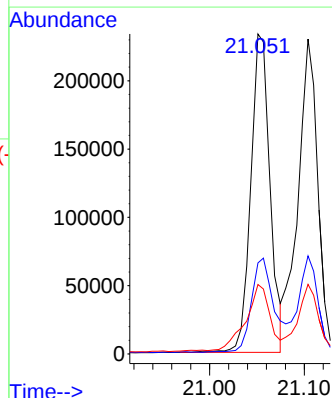
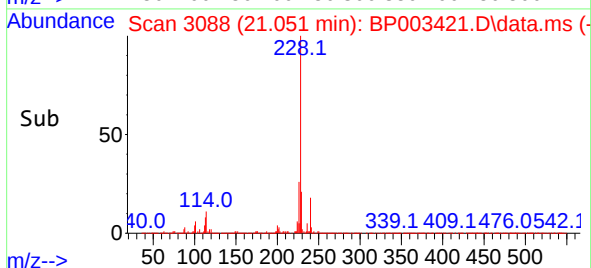
mohammad  
 10/1/2020 1:33:21 PM

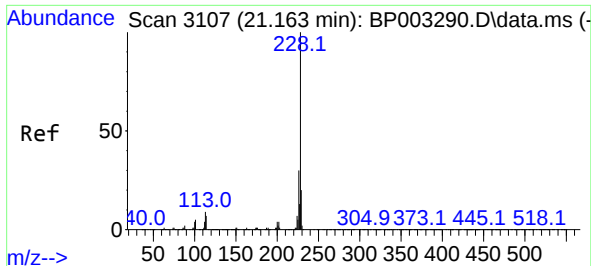


#81  
 Benzo(a)anthracene  
 Concen: 10.09 ng  
 RT: 21.051 min Scan# 3088  
 Delta R.T. 0.006 min  
 Lab File: BP003421.D  
 Acq: 30 Sep 2020 19:29



Tgt Ion:228 Resp: 329041  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 22.1 33.1  
 229 21.7 15.9 23.9





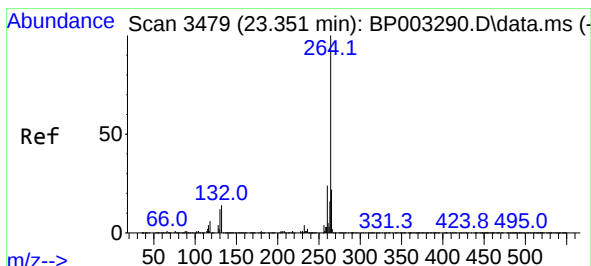
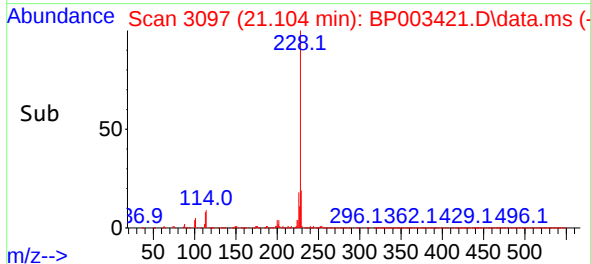
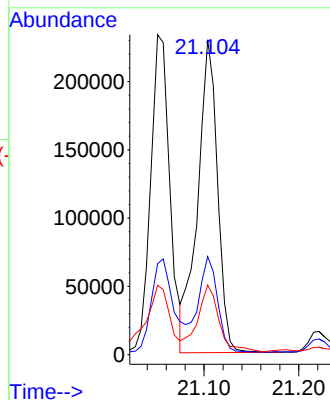
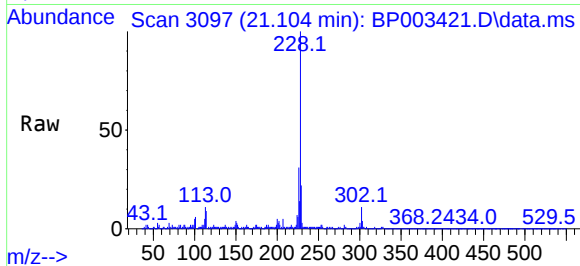
#83  
Chrysene  
Concen: 10.68 ng  
RT: 21.104 min Scan# 3097  
Delta R.T. 0.006 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 334427 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.1  | 24.4  | 36.6   |
| 229       | 22.1  | 15.8  | 23.6   |

Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)

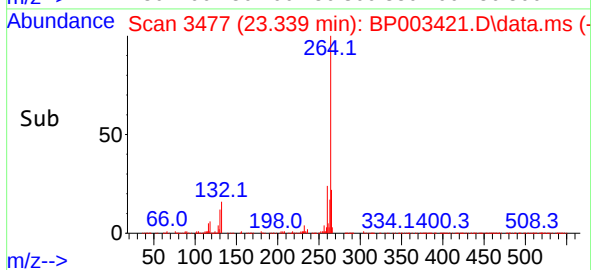
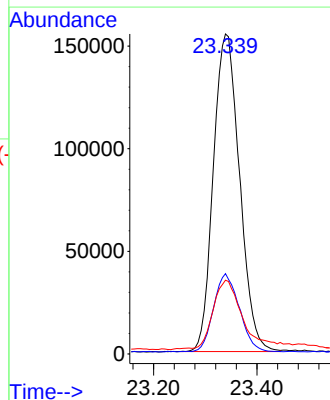
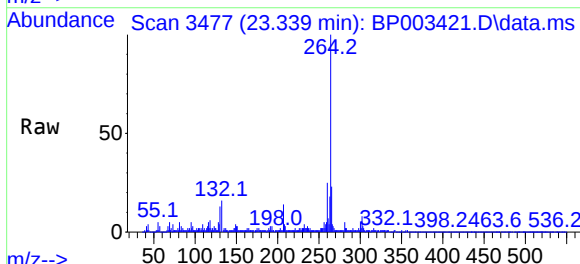
Manual Integrations  
APPROVED

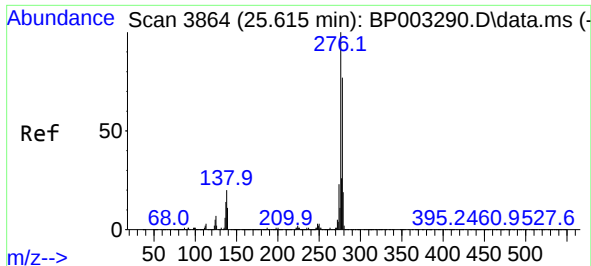
mohammad  
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.339 min Scan# 3477  
Delta R.T. 0.082 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 545164 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 25.1  | 18.8  | 28.2   |
| 265       | 23.1  | 17.4  | 26.2   |





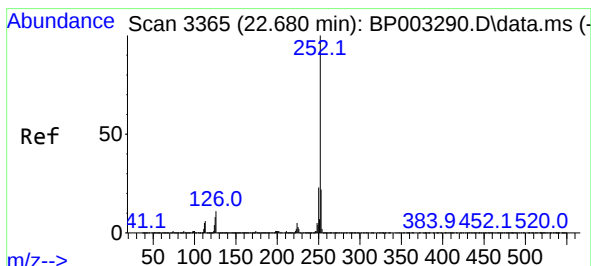
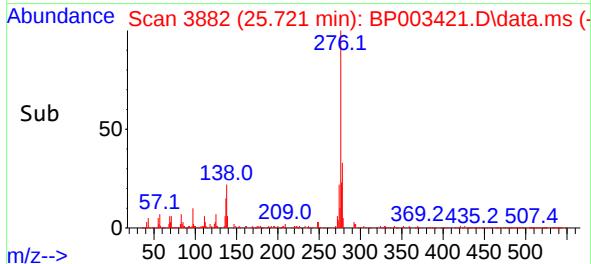
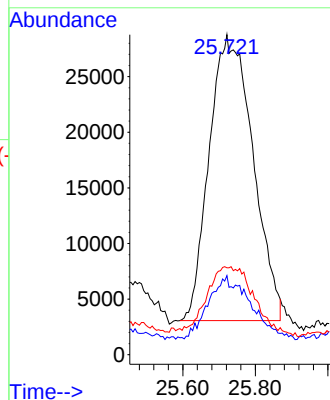
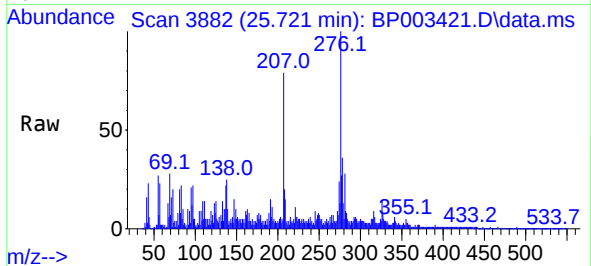
#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.19 ng  
 RT: 25.721 min Scan# 3882  
 Delta R.T. 0.223 min  
 Lab File: BP003421.D  
 Acq: 30 Sep 2020 19:29

Tgt Ion: 276 Resp: 214348  
 Ion Ratio Lower Upper  
 276 100  
 138 11.9 18.7 28.1#  
 277 22.9 20.4 30.6

Instrument :  
 BNA\_P  
 ClientSampled :  
 B-9(2-3)

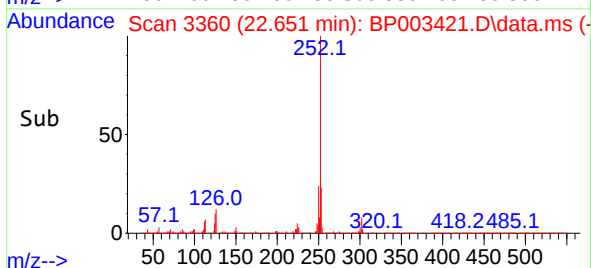
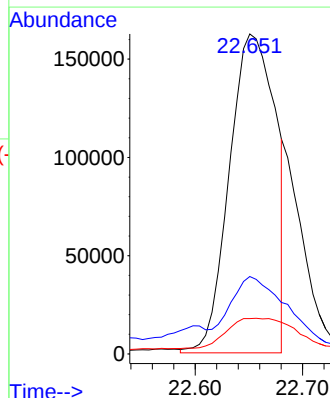
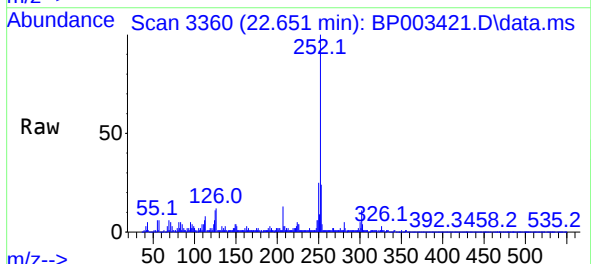
Manual Integrations  
 APPROVED

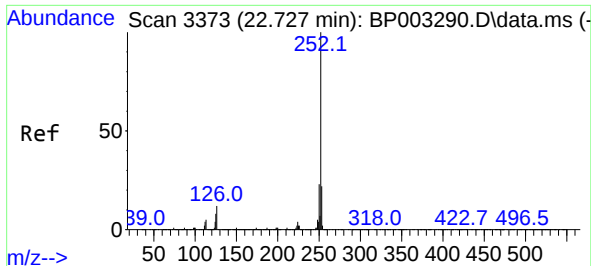
mohammad  
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#88  
 Benzo(b)fluoranthene  
 Concen: 14.12 ng m  
 RT: 22.651 min Scan# 3360  
 Delta R.T. 0.059 min  
 Lab File: BP003421.D  
 Acq: 30 Sep 2020 19:29

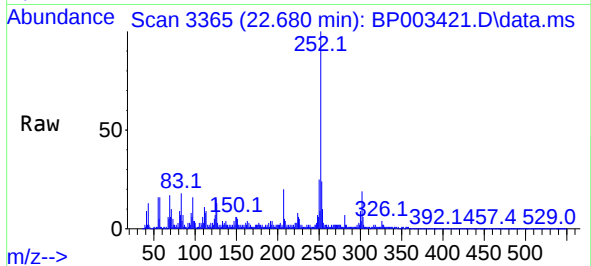
Tgt Ion: 252 Resp: 486166  
 Ion Ratio Lower Upper  
 252 100  
 253 24.2 17.6 26.4  
 125 11.1 7.3 10.9#





#89  
Benzo(k)fluoranthene  
Concen: 3.84 ng m  
RT: 22.680 min Scan# 3365  
Delta R.T. 0.035 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

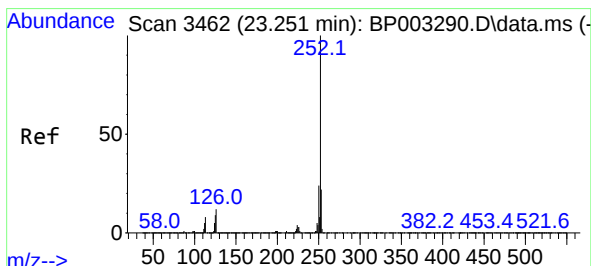
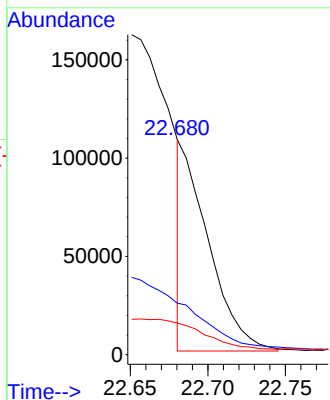
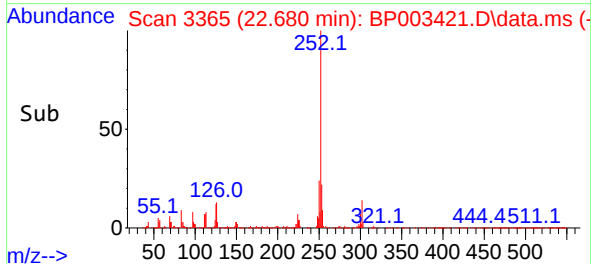
Instrument :  
BNA\_P  
ClientSampleId :  
B-9(2-3)



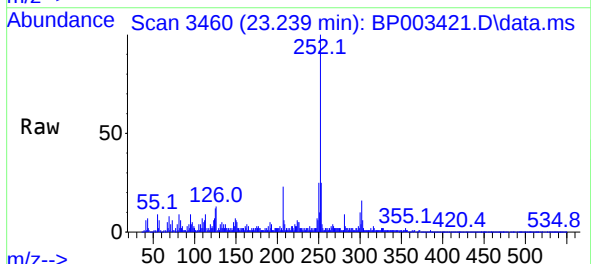
Tgt Ion:252 Resp: 126815  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.8  
125 14.7 7.4 11.2#

Manual Integrations  
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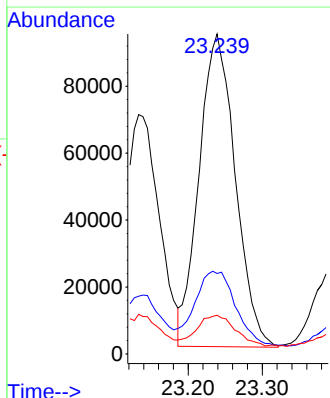
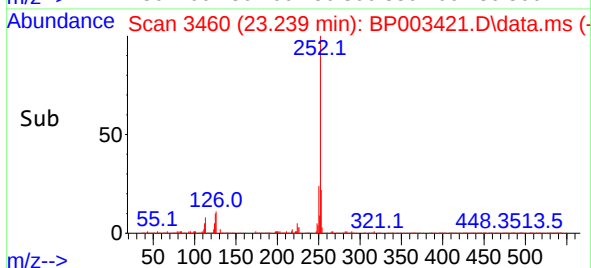
mohammad  
10/1/2020 1:33:21 PM

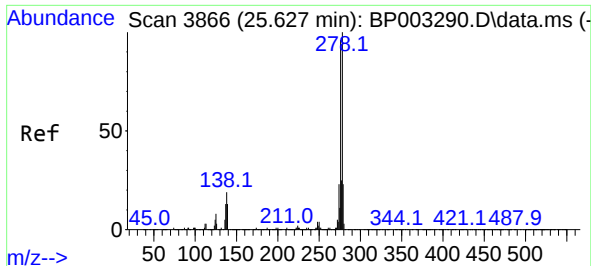


#90  
Benzo(a)pyrene  
Concen: 9.77 ng  
RT: 23.239 min Scan# 3460  
Delta R.T. 0.076 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29



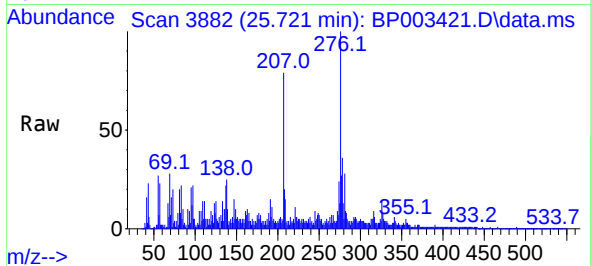
Tgt Ion:252 Resp: 317300  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.4 26.0  
125 12.1 8.2 12.4





#91  
Dibenzo(a,h)anthracene  
Concen: 3.28 ng m  
RT: 25.721 min Scan# 3882  
Delta R.T. 0.212 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29

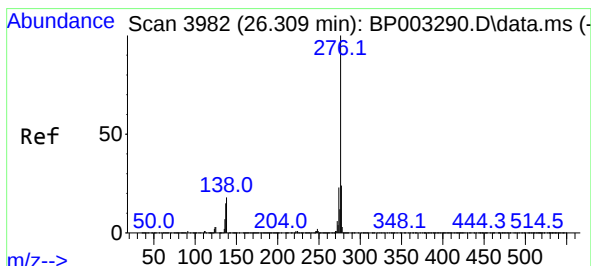
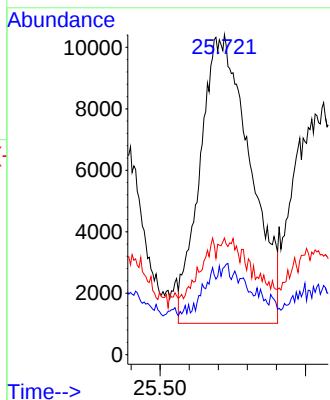
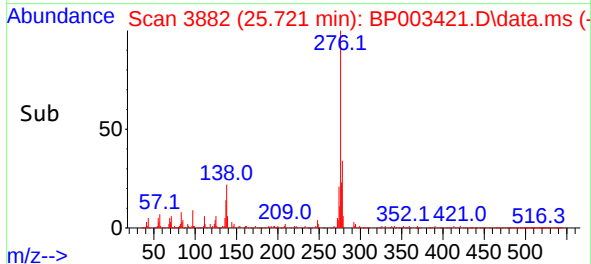
Instrument :  
BNA\_P  
ClientSampled :  
B-9(2-3)



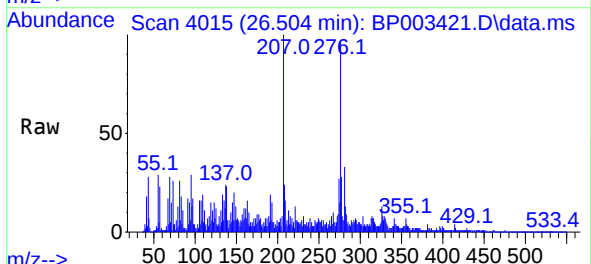
Tgt Ion: 278 Resp: 111796  
Ion Ratio Lower Upper  
278 100  
139 27.4 12.4 18.6#  
279 36.5 19.0 28.6#

Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 6.82 ng m  
RT: 26.504 min Scan# 4015  
Delta R.T. 0.306 min  
Lab File: BP003421.D  
Acq: 30 Sep 2020 19:29



Tgt Ion: 276 Resp: 232113  
Ion Ratio Lower Upper  
276 100  
277 29.6 19.0 28.6#  
138 24.4 16.6 24.8

