

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100419\  
 Data File : BP000516.D  
 Acq On : 04 Oct 2019 18:48  
 Operator : JU  
 Sample : K5192-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RO-3-1

Manual Integrations  
 APPROVED

mohammad  
 10/7/2019 4:38:25 PM

Quant Time: Oct 05 00:32:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 01 18:03:42 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 248637   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.05  | 136  | 902859   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.81  | 164  | 503439   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.31 | 188  | 919307   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.98 | 240  | 765595   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.46 | 264  | 839148   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 1238489  | 80.07  | ng    | 0.00     |
| 7) Phenol-d6                | 6.41  | 99   | 1537825  | 82.50  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 849945   | 57.50  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.60 | 330  | 494113   | 92.10  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.13  | 172  | 1947011  | 62.57  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.92 | 244  | 2324491  | 61.47  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.42  | 94   | 52110    | 2.731  | ng    | 90       |
| 50) Dimethylphthalate       | 9.53  | 163  | 384260   | 10.985 | ng    | 100      |
| 71) Phenanthrene            | 11.33 | 178  | 228404   | 4.947  | ng    | 99       |
| 75) Fluoranthene            | 12.53 | 202  | 533125   | 10.281 | ng    | 99       |
| 78) Pyrene                  | 12.76 | 202  | 487892   | 9.240  | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.97 | 228  | 226208   | 4.843  | ng    | 95       |
| 83) Chrysene                | 14.00 | 228  | 226863   | 4.948  | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.92 | 276  | 157277m  | 2.746  | ng    |          |
| 88) Benzo(b)fluoranthene    | 15.03 | 252  | 327203m  | 6.873  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.05 | 252  | 100480m  | 2.217  | ng    |          |
| 90) Benzo(a)pyrene          | 15.39 | 252  | 226614   | 5.106  | ng    | 97       |
| 92) Benzo(a,h,i)perylene    | 17.36 | 276  | 162903   | 3.725  | ng    | 97       |

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

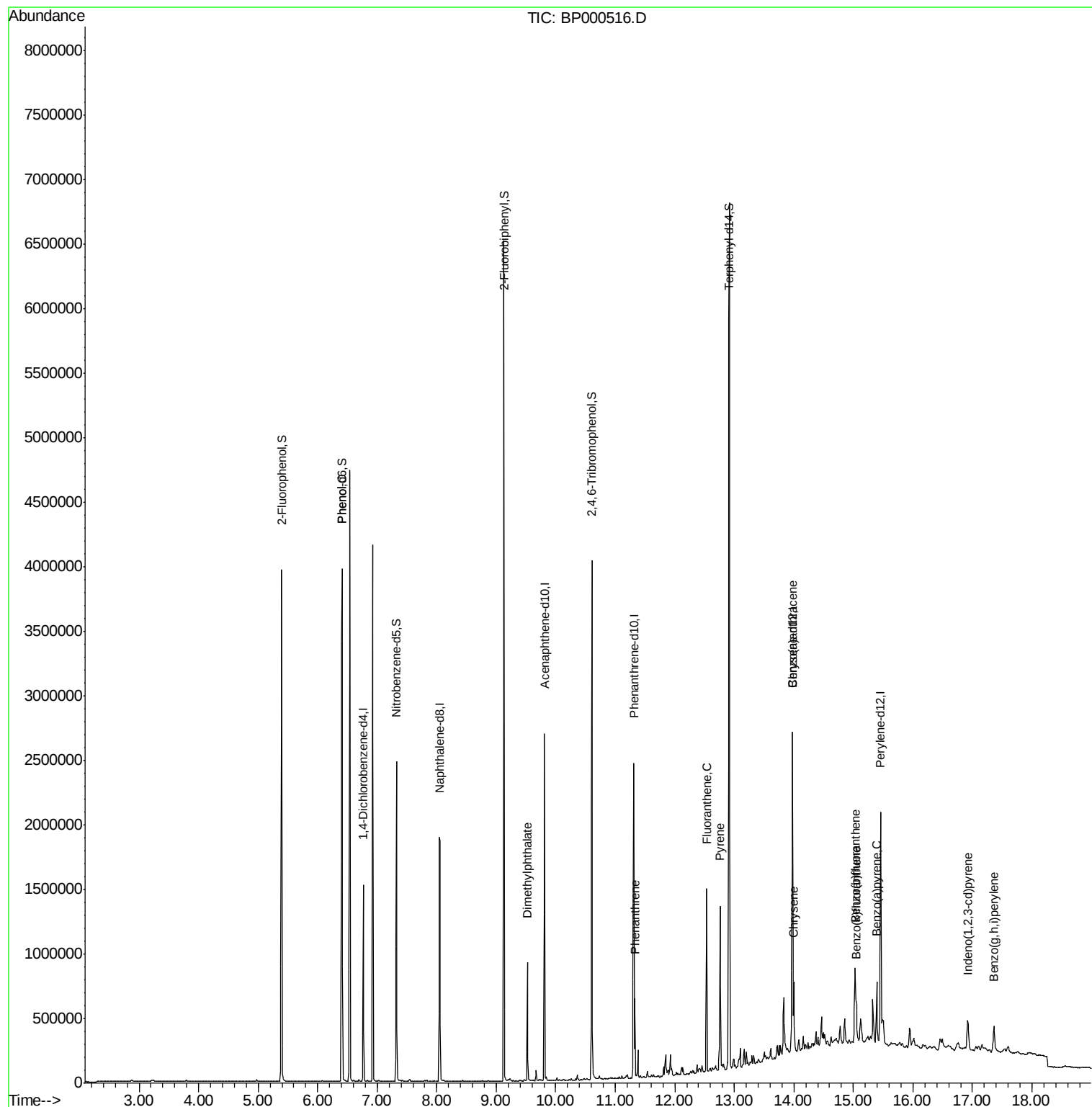
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100419\  
Data File : BP000516.D  
Acq On : 04 Oct 2019 18:48  
Operator : JU  
Sample : K5192-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

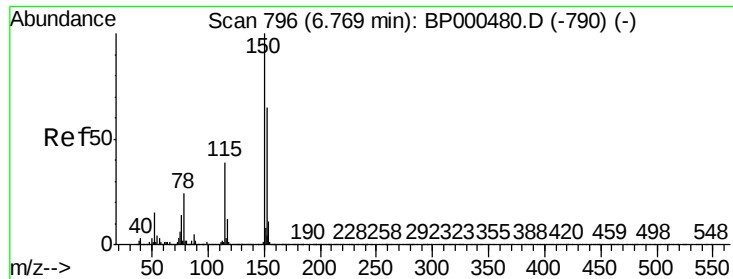
Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

Manual Integrations  
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Quant Time: Oct 05 00:32:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 01 18:03:42 2019  
Response via : Initial Calibration





#1

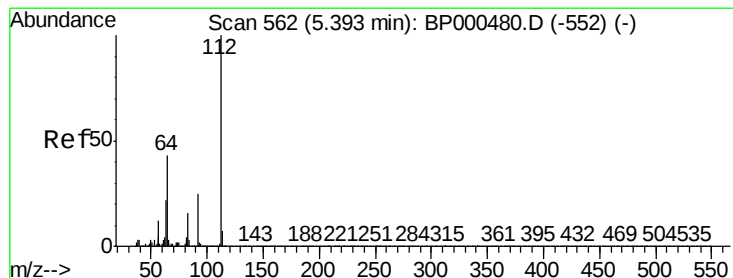
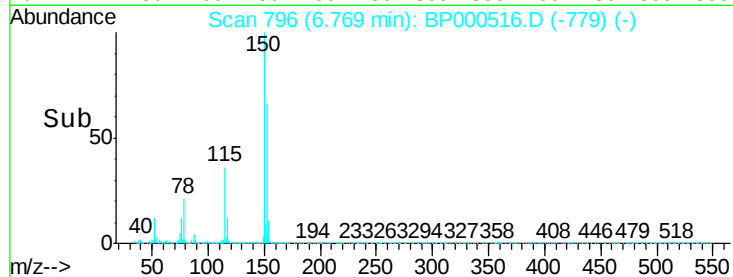
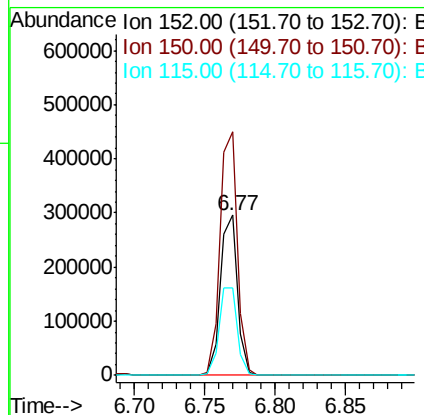
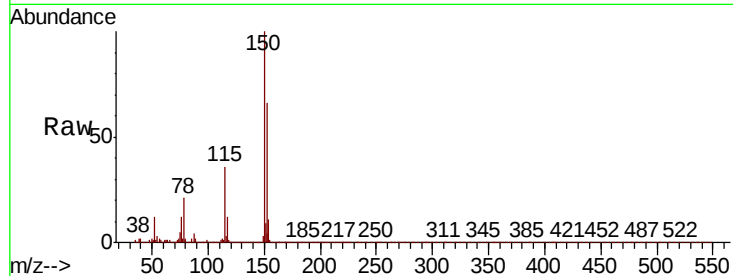
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. 0.00 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.9 | 124.1 | 186.1 |
| 115     | 54.5  | 48.7  | 73.1  |

Manual Integrations  
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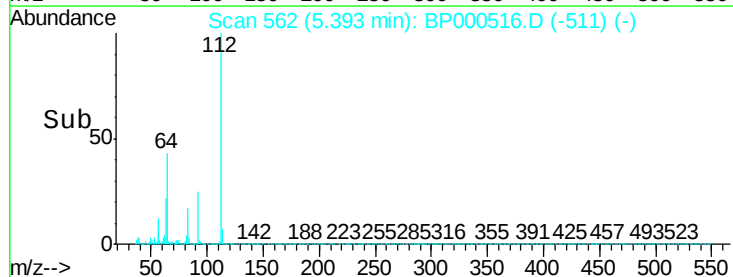
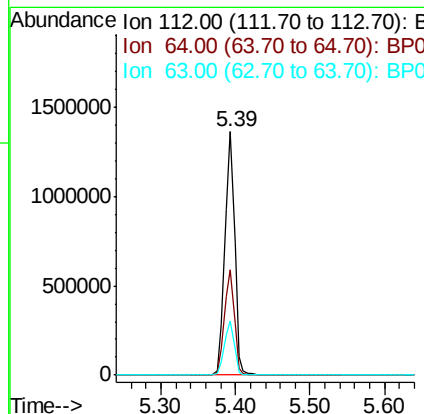
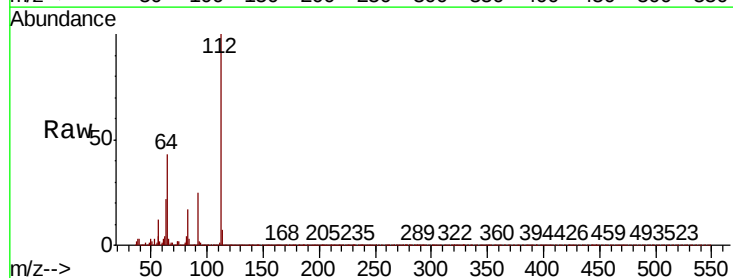
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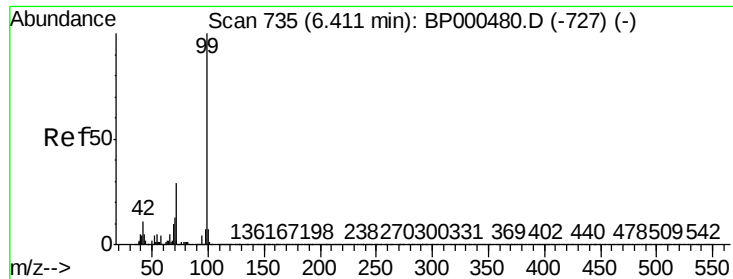


#5

2-Fluorophenol  
Concen: 80.069 ng  
RT: 5.39 min Scan# 562  
Delta R.T. 0.00 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 43.2  | 34.2  | 51.4  |
| 63      | 22.4  | 17.9  | 26.9  |





#7

Phenol-d6

Concen: 82.504 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.00 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

Instrument :

BNA\_P

ClientSampleId :

RO-3-1

Tot Ion: 99 Resp: 1537825

Ion Ratio Lower Upper

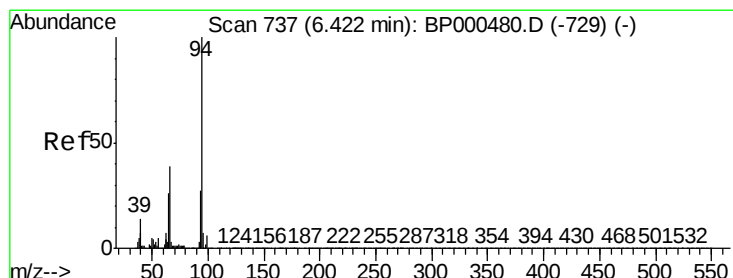
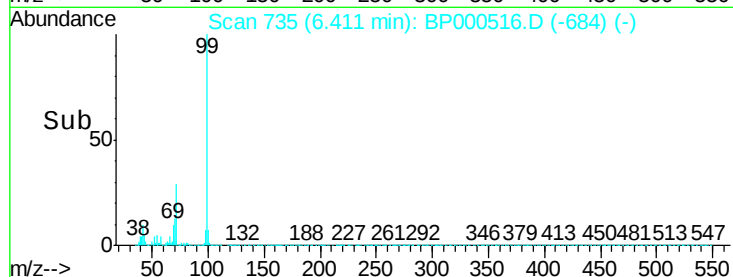
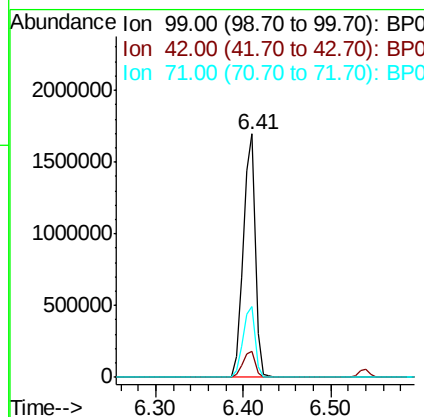
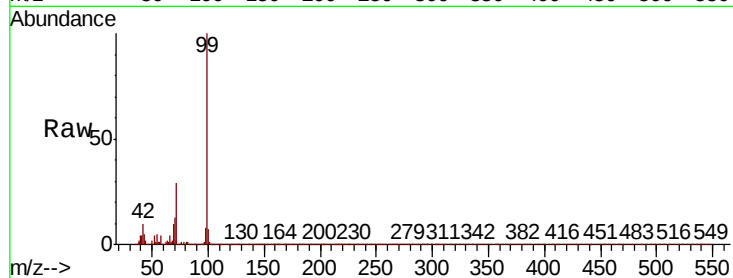
99 100

42 10.5 8.6 12.8

71 29.3 23.0 34.4

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#10

Phenol

Concen: 2.731 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

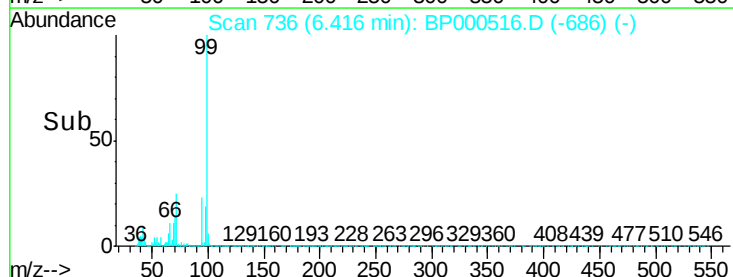
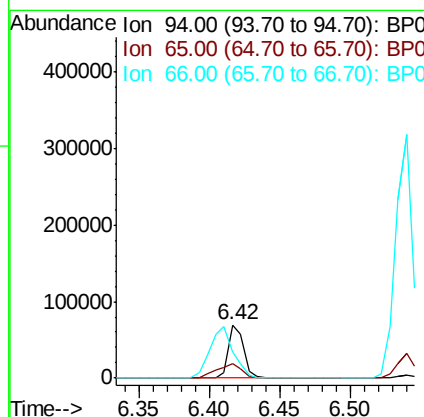
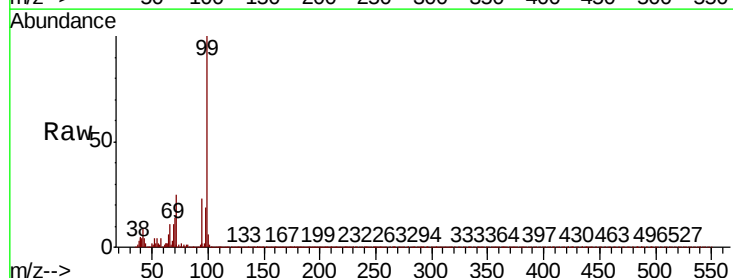
Tgt Ion: 94 Resp: 52110

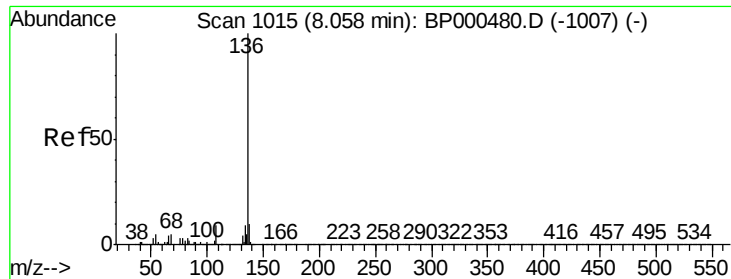
Ion Ratio Lower Upper

94 100

65 26.5 5.9 45.9

66 48.5 18.8 58.8





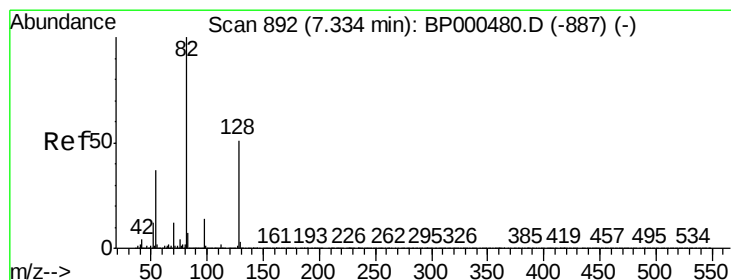
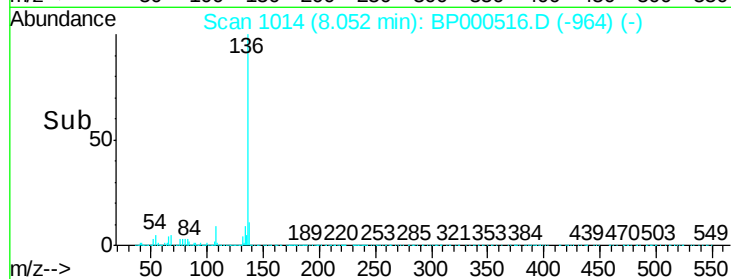
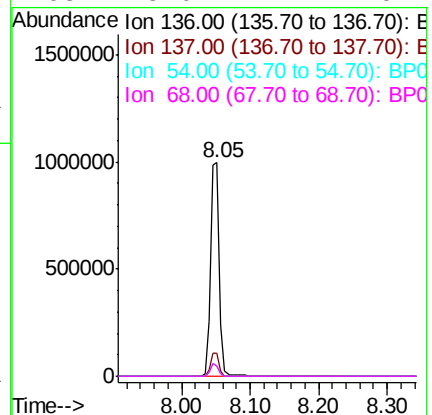
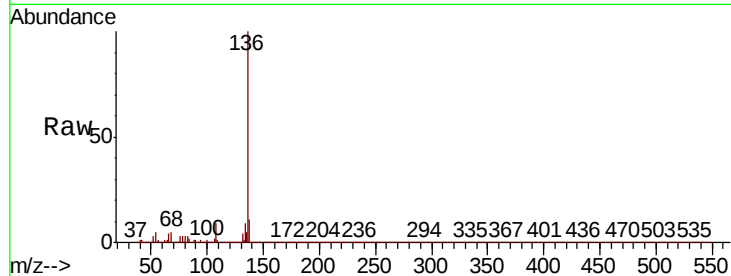
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.05 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.7  | 8.2  | 12.4  |       |
| 54      | 5.0   | 4.1  | 6.1   |       |
| 68      | 5.0   | 4.1  | 6.1   |       |

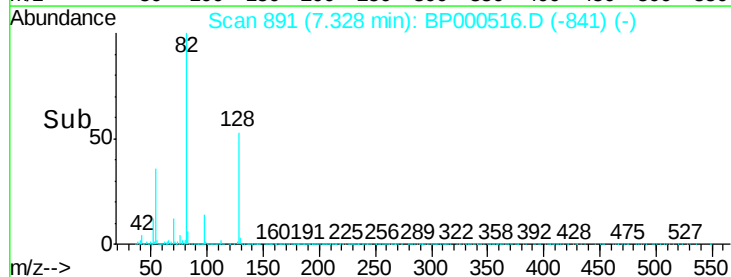
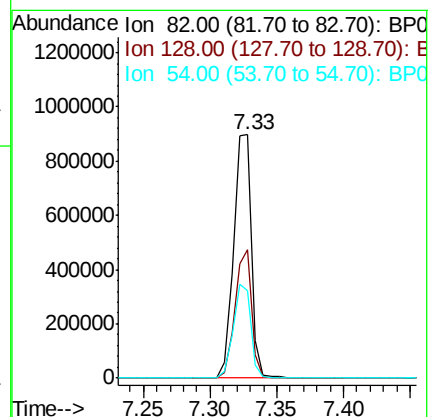
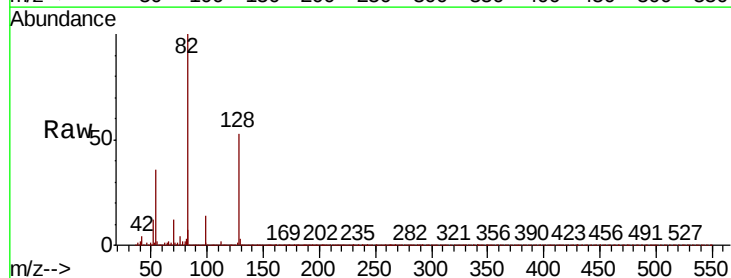
Manual Integrations  
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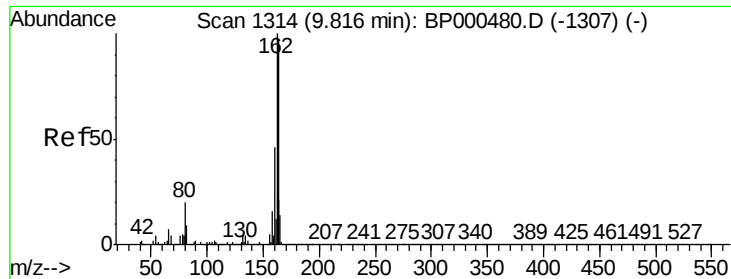
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#23  
Nitrobenzene-d5  
Concen: 57.496 ng  
RT: 7.33 min Scan# 891  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 52.7  | 40.9 | 61.3  |       |
| 54      | 36.0  | 29.4 | 44.2  |       |





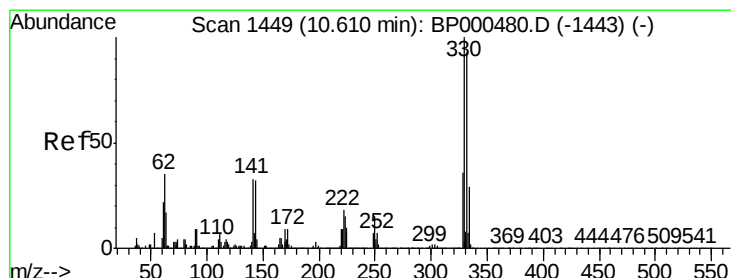
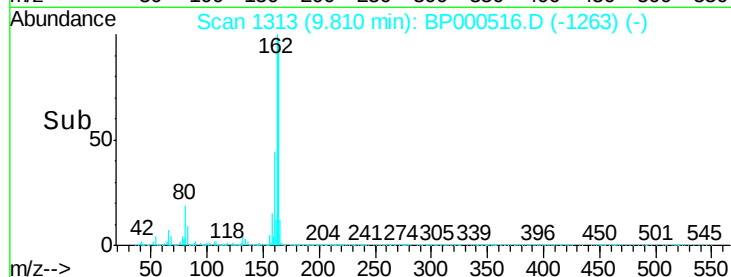
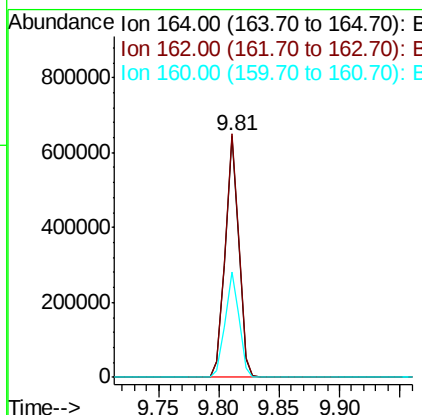
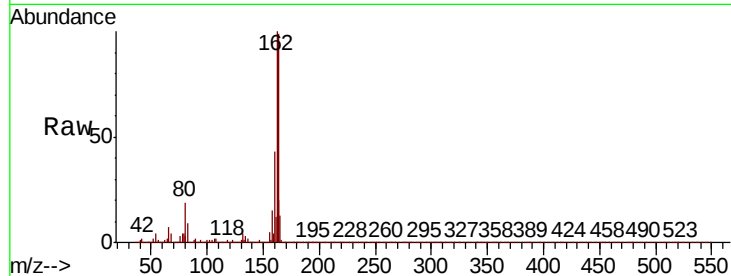
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.81 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 82.2  | 123.2 |
| 160     | 43.8  | 37.6  | 56.4  |

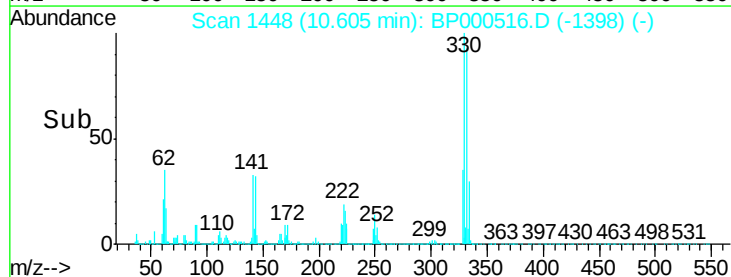
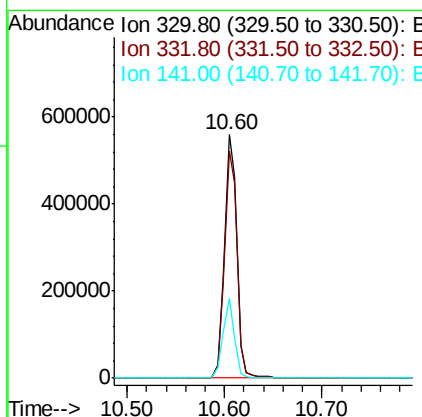
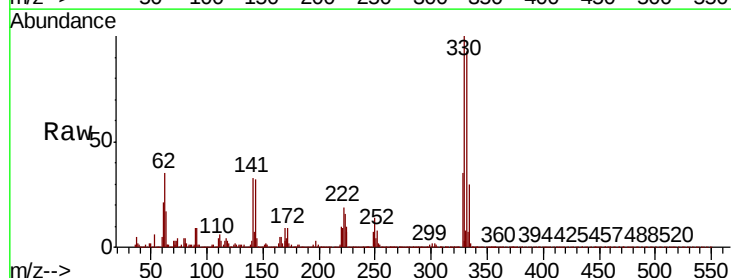
Manual Integrations  
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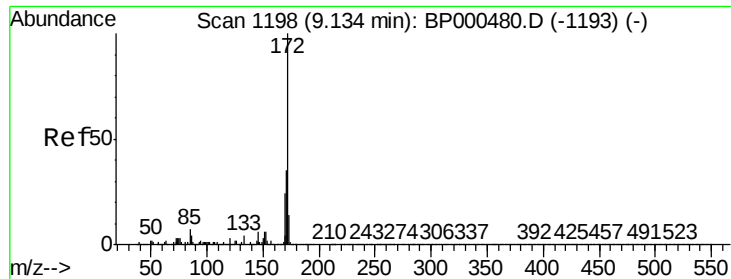
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#42  
2,4,6-Tribromophenol  
Concen: 92.104 ng  
RT: 10.60 min Scan# 1448  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.9  | 77.1  | 115.7 |
| 141     | 30.6  | 26.0  | 39.0  |





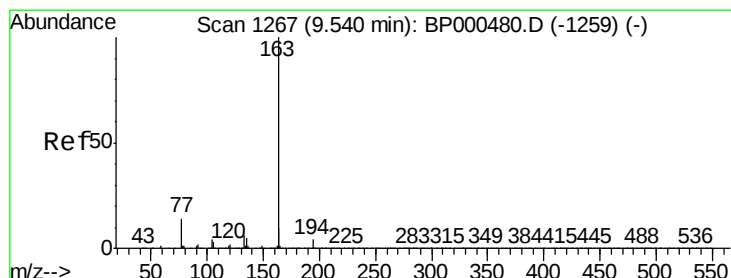
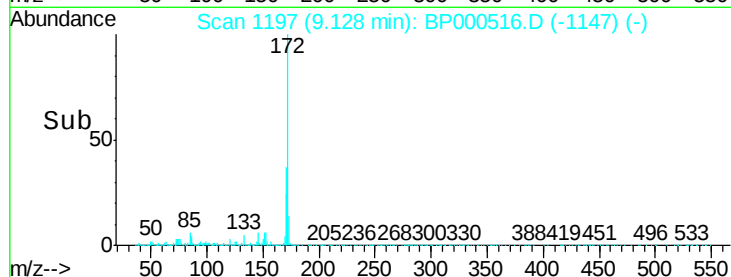
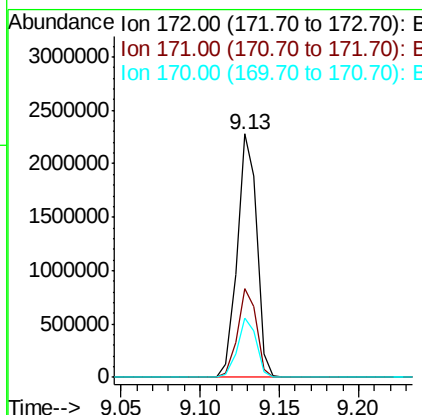
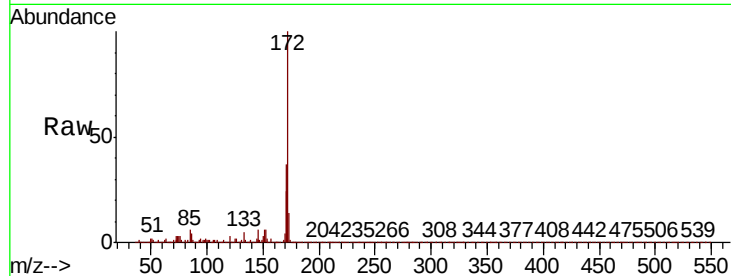
#45  
2-Fluorobiphenyl  
Concen: 62.575 ng  
RT: 9.13 min Scan# 1197  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 172     | 172 | 100   |       |       |
| 171     | 171 | 36.5  | 28.4  | 42.6  |
| 170     | 170 | 24.3  | 19.1  | 28.7  |

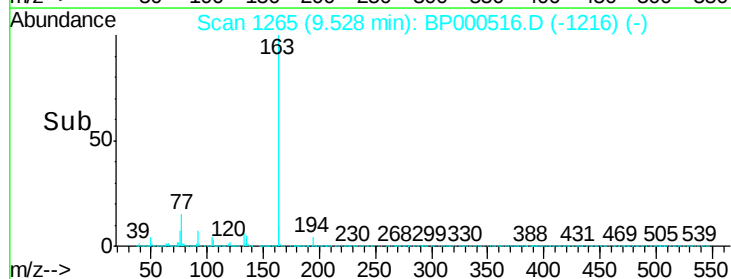
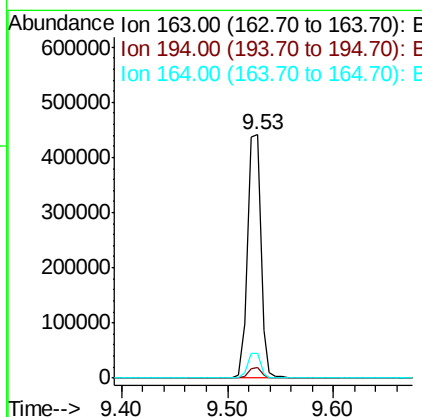
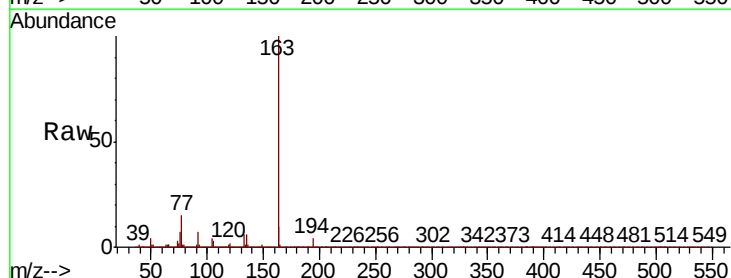
Manual Integrations  
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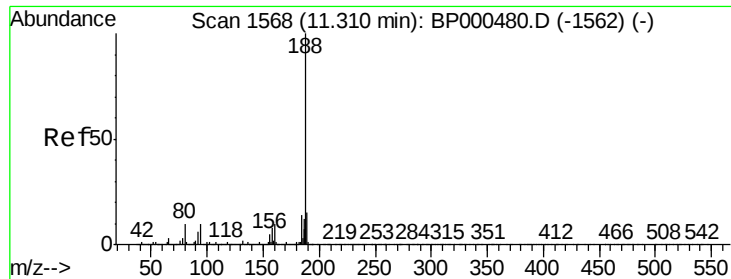
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#50  
Dimethylphthalate  
Concen: 10.985 ng  
RT: 9.53 min Scan# 1265  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 163     | 163 | 100   |       |       |
| 194     | 194 | 4.4   | 3.4   | 5.2   |
| 164     | 164 | 10.2  | 8.0   | 12.0  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.31 min Scan# 1568

Delta R.T. 0.00 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

Instrument :

BNA\_P

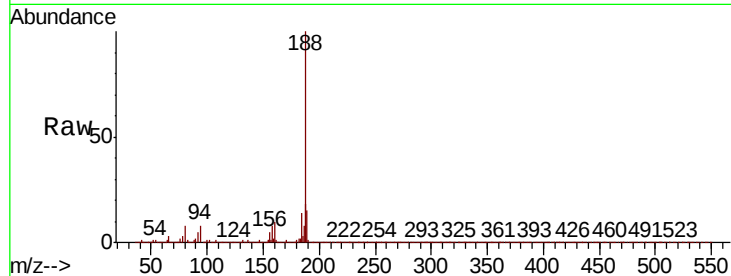
ClientSampled :

RO-3-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 919307 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.4   | 8.2   | 12.2   |
| 80        | 8.4   | 8.3   | 12.5   |

Manual Integrations  
APPROVED

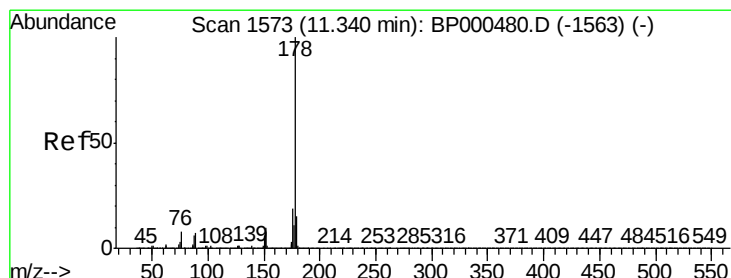
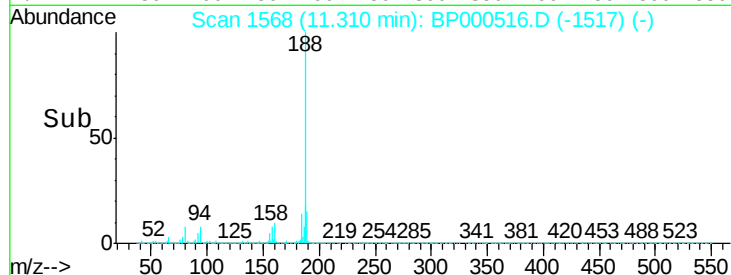
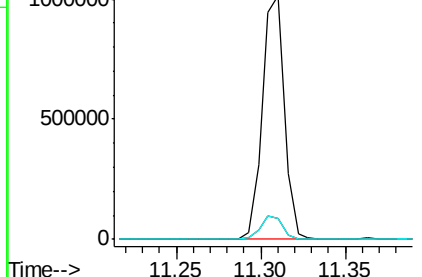
mohammad  
10/7/2019 4:38:25 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#71

Phenanthrene

Concen: 4.947 ng

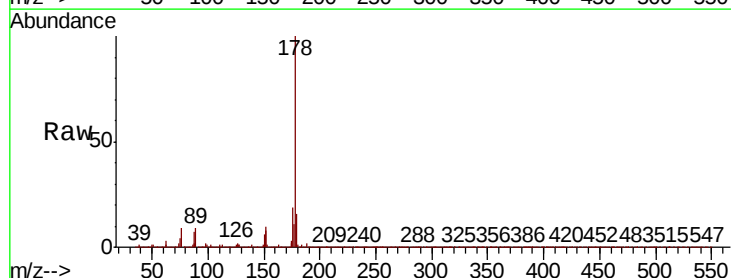
RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

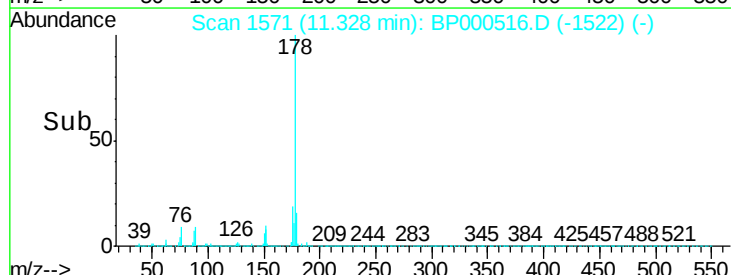
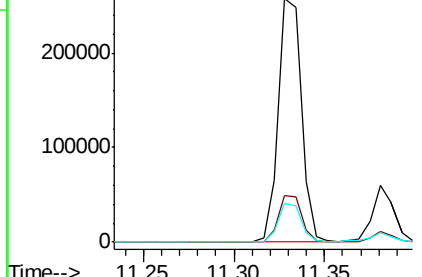
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 228404 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.1  | 15.4  | 23.2   |
| 179       | 16.1  | 12.2  | 18.4   |

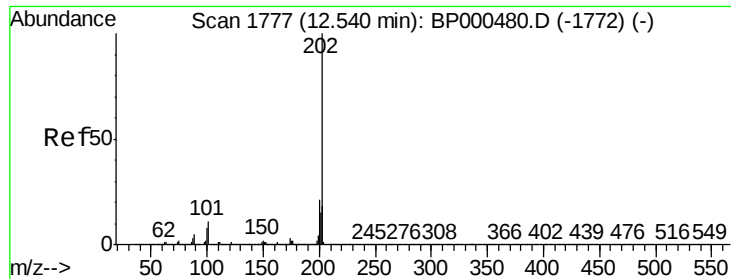


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





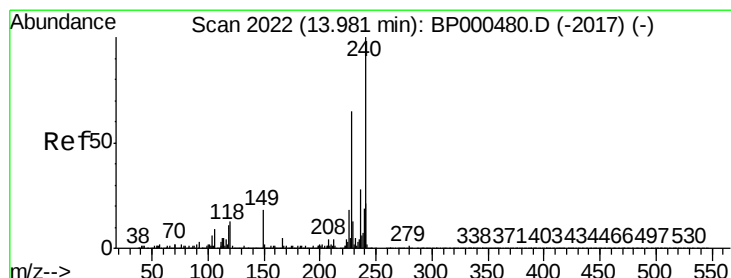
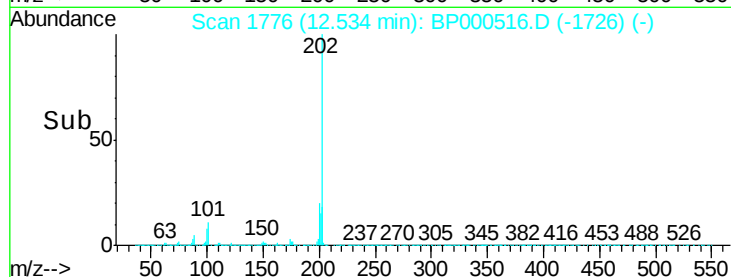
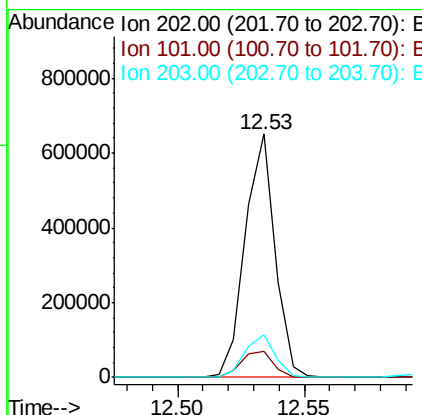
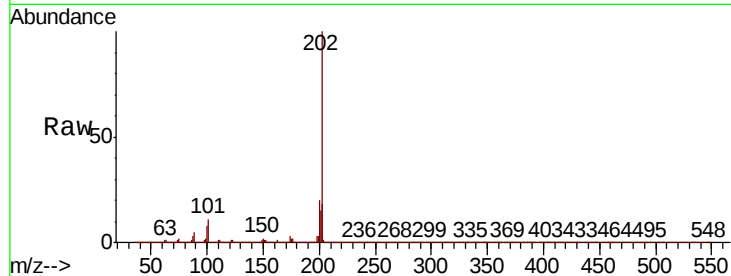
#75  
Fluoranthene  
Concen: 10.281 ng  
RT: 12.53 min Scan# 1776  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 101     | 10.7 | 0.0   | 31.3 |       |       |
| 203     | 17.6 | 0.0   | 38.1 |       |       |

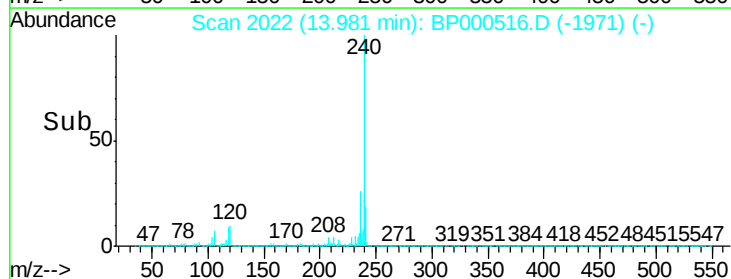
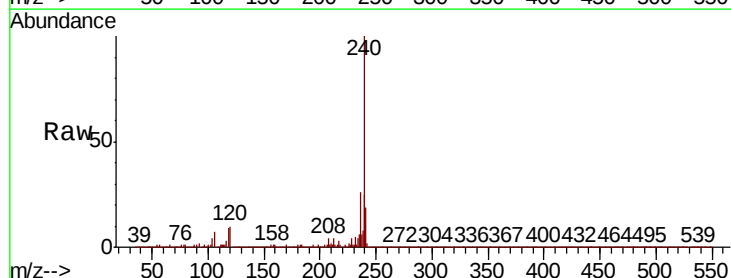
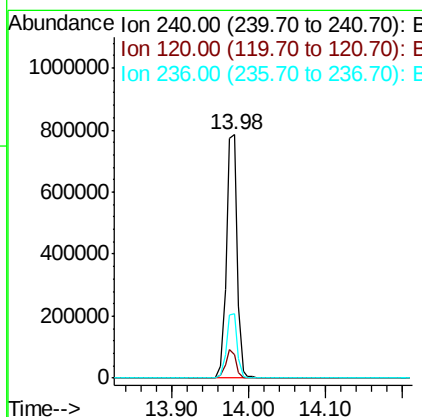
Manual Integrations  
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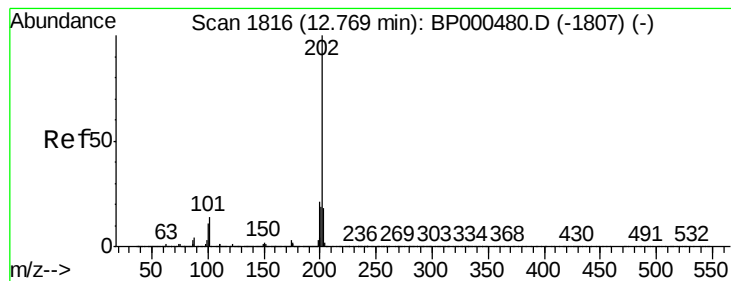
mohammad  
10/7/2019 4:38:25 PM



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. 0.00 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 240     | 100  |       |       |       |       |
| 120     | 9.6  | 10.1  | 15.1# |       |       |
| 236     | 26.4 | 22.7  | 34.1  |       |       |





#78

Pvrene

Concen: 9.240 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

Instrument :

BNA\_P

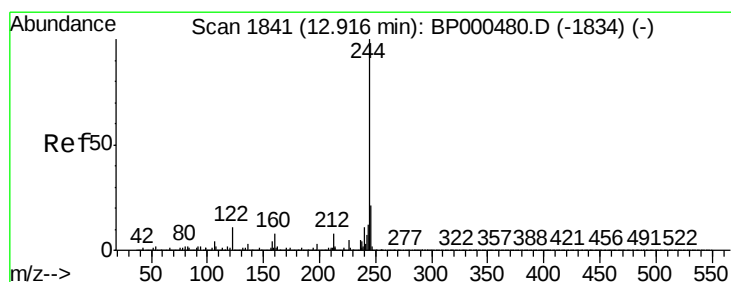
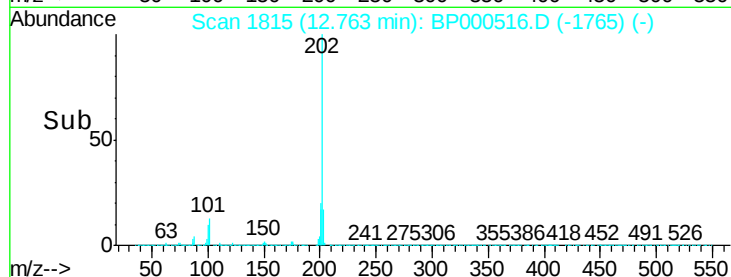
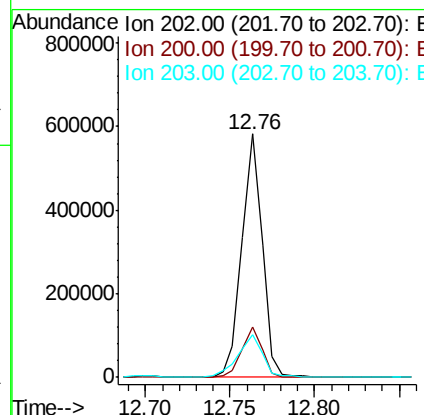
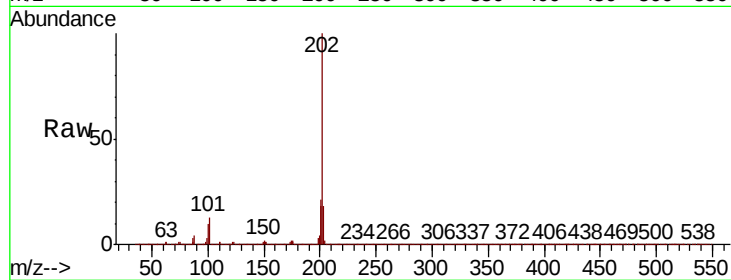
ClientSampleId :

RO-3-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 487892 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.5  | 17.1  | 25.7   |
| 203       | 17.6  | 14.6  | 21.8   |

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#79

Terphenyl-d14

Concen: 61.475 ng

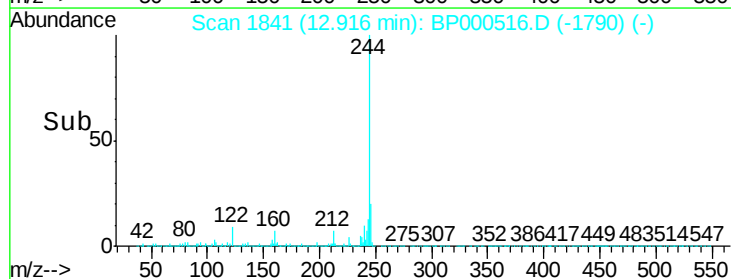
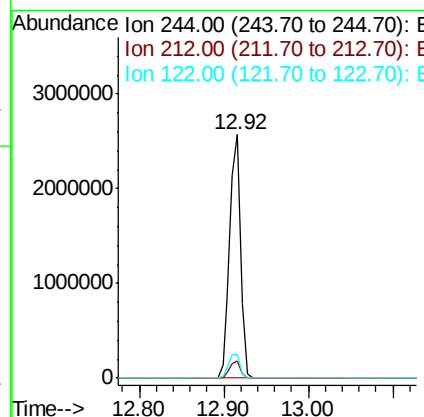
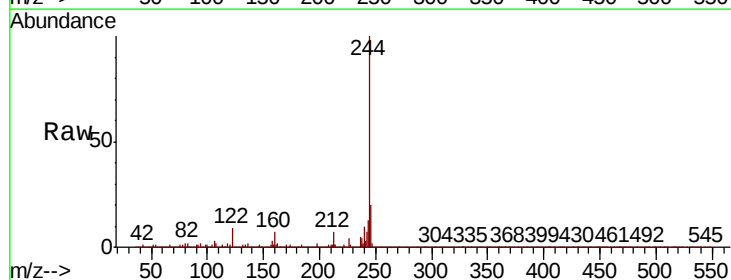
RT: 12.92 min Scan# 1841

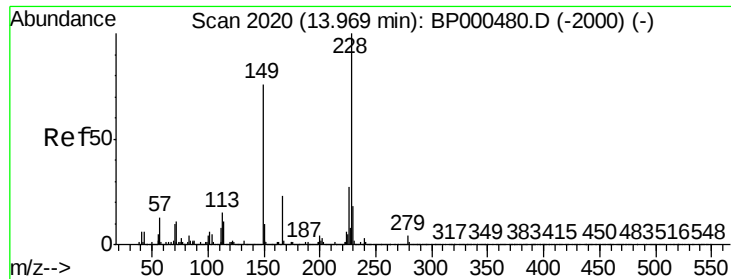
Delta R.T. 0.00 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 2324491 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.1   | 6.0   | 9.0     |
| 122       | 9.4   | 8.9   | 13.3    |





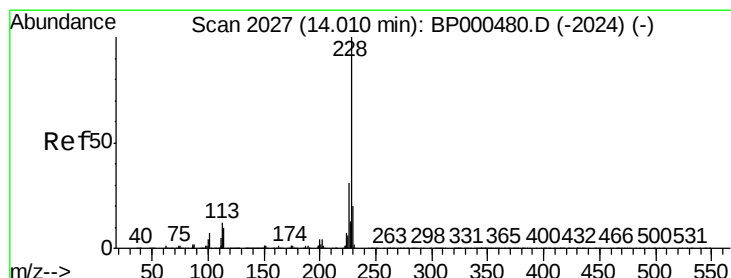
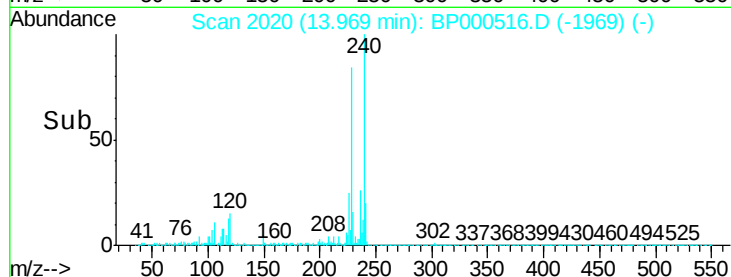
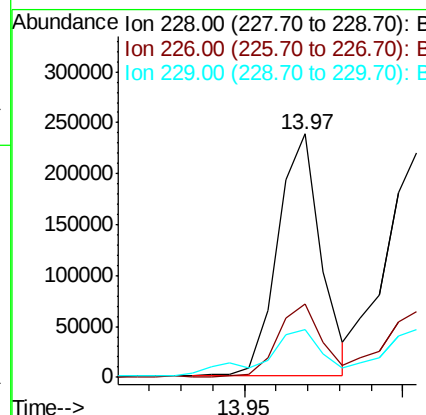
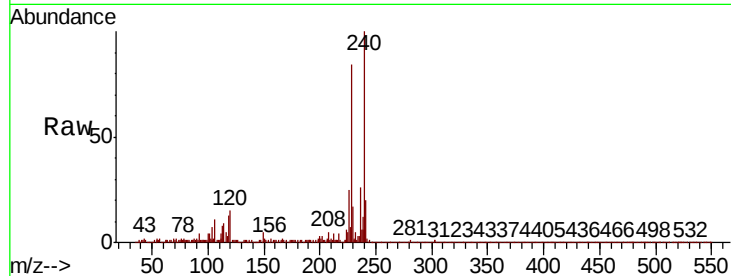
#81  
Benzo(a)anthracene  
Concen: 4.843 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. 0.00 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 21.4  | 32.2  |
| 229     | 19.7  | 14.7  | 22.1  |

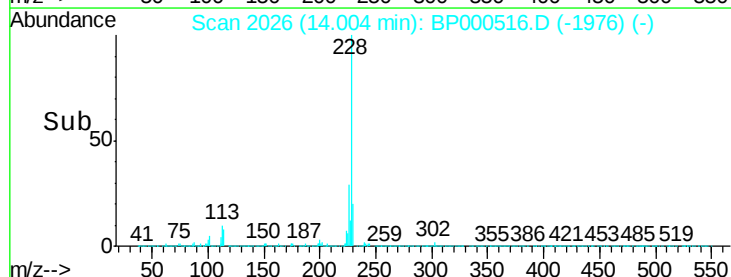
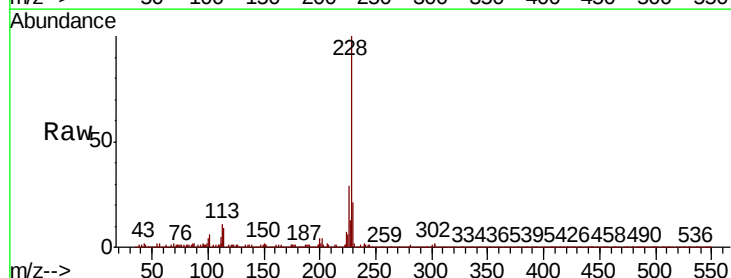
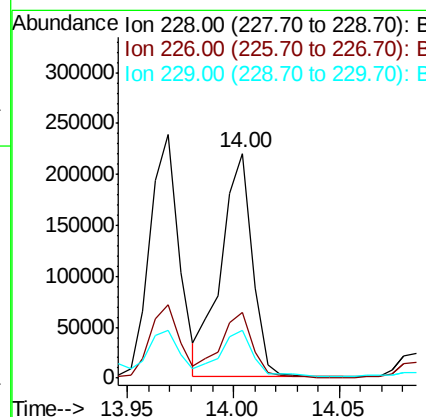
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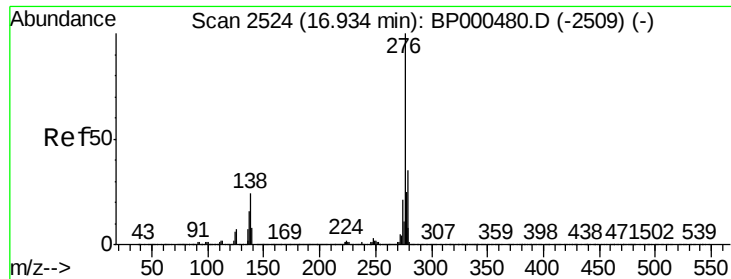
mohammad  
10/7/2019 4:38:25 PM



#83  
Chrysene  
Concen: 4.948 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 24.7  | 37.1  |
| 229     | 21.2  | 16.3  | 24.5  |





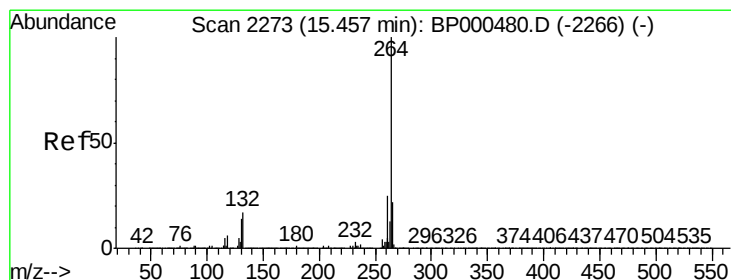
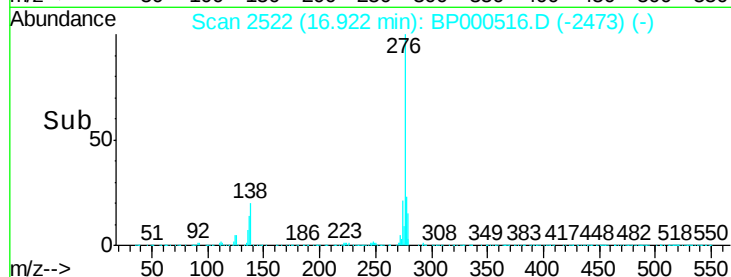
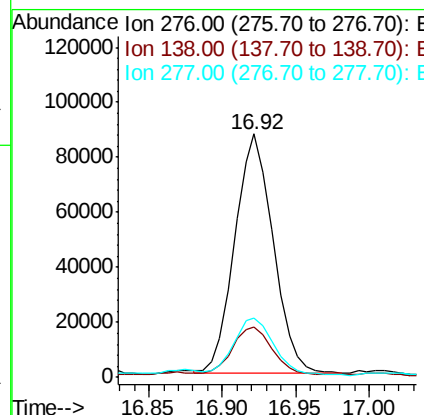
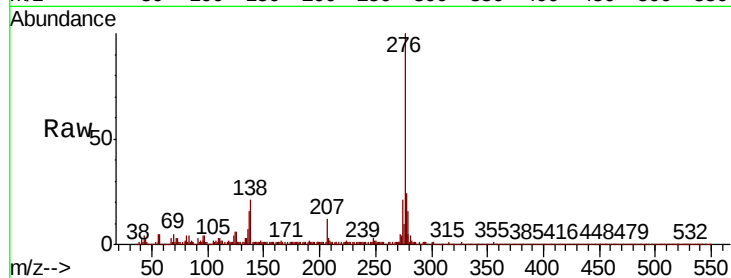
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.746 ng  
RT: 16.92 min Scan# 2522  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampleId :  
RO-3-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.7   | 20.9  | 31.3# |
| 277     | 0.9   | 20.6  | 30.8# |

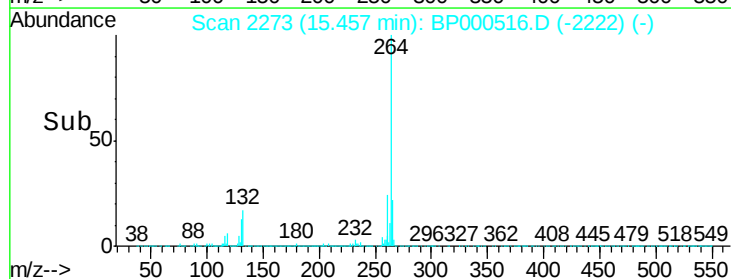
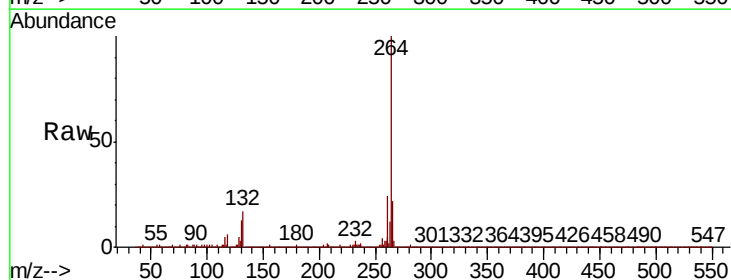
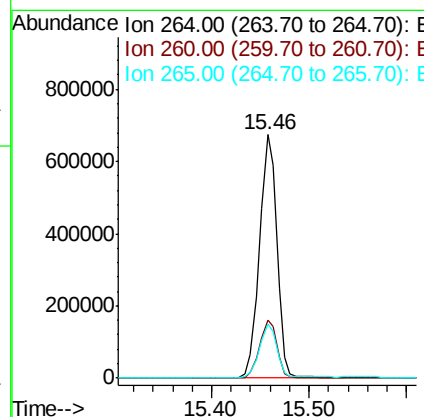
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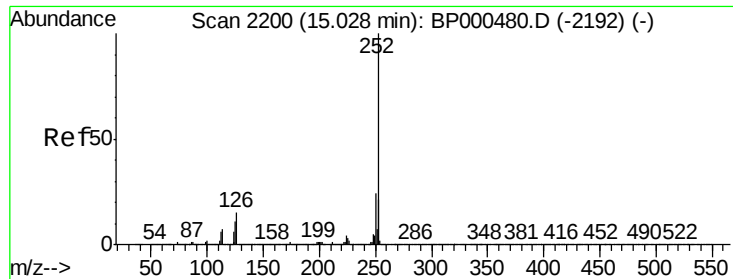
mohammad  
10/7/2019 4:38:25 PM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 20.3  | 30.5  |
| 265     | 22.1  | 18.0  | 27.0  |





#88

Benzo(b)fluoranthene

Concen: 6.873 ng m

RT: 15.03 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

Instrument :

BNA\_P

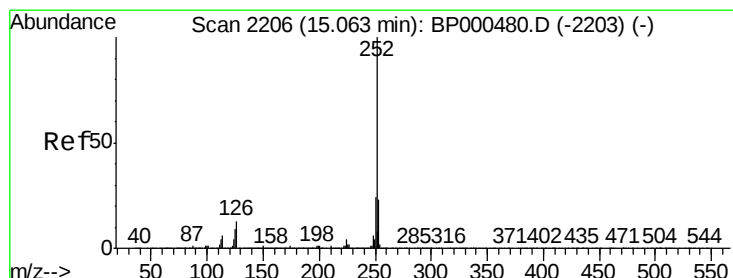
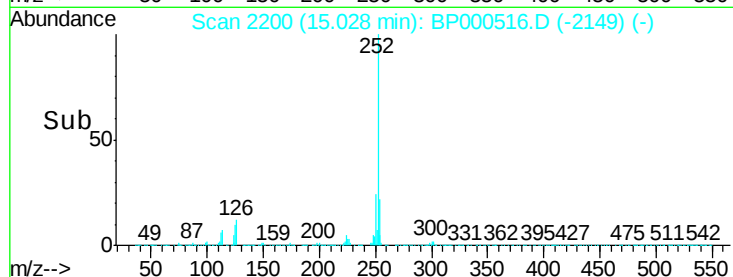
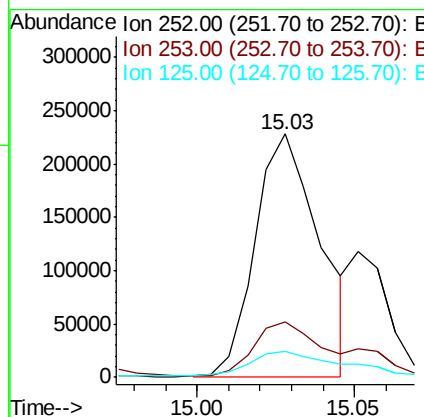
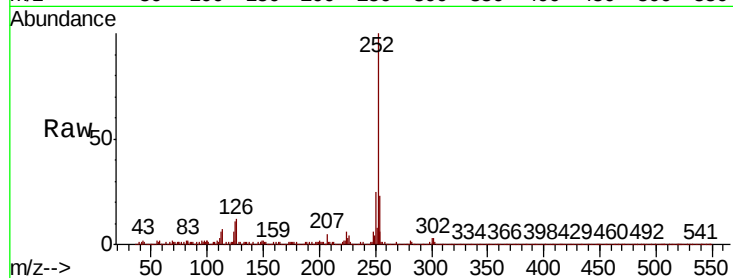
ClientSampleId :

RO-3-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 327203 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.0  | 25.4   |
| 125       | 10.7  | 8.9   | 13.3   |

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#89

Benzo(k)fluoranthene

Concen: 2.217 ng m

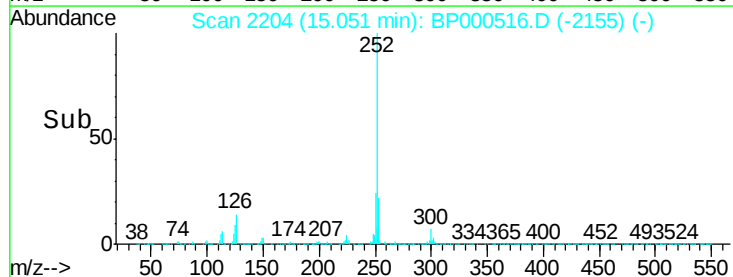
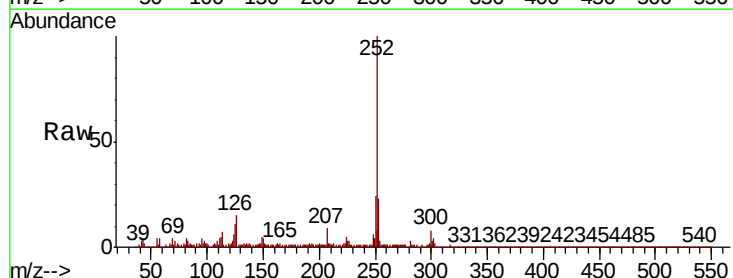
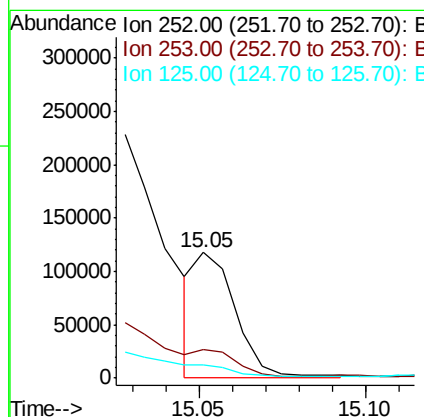
RT: 15.05 min Scan# 2204

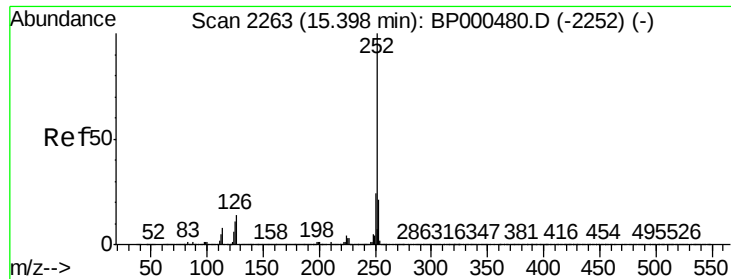
Delta R.T. -0.01 min

Lab File: BP000516.D

Acq: 04 Oct 2019 18:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 100480 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 18.4  | 27.6   |
| 125       | 10.9  | 7.8   | 11.8   |





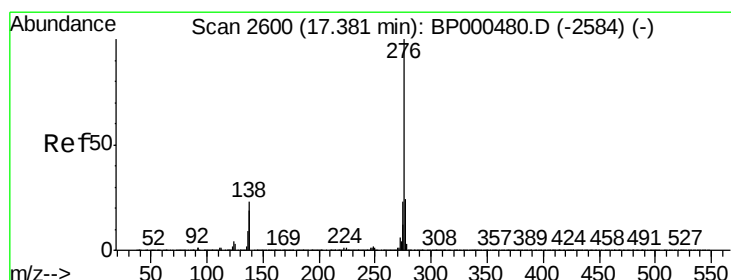
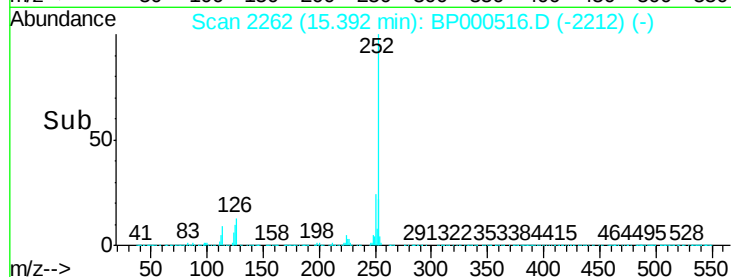
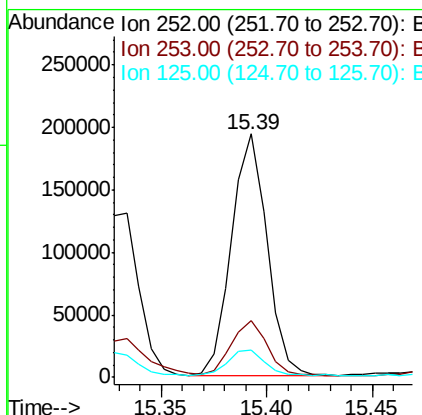
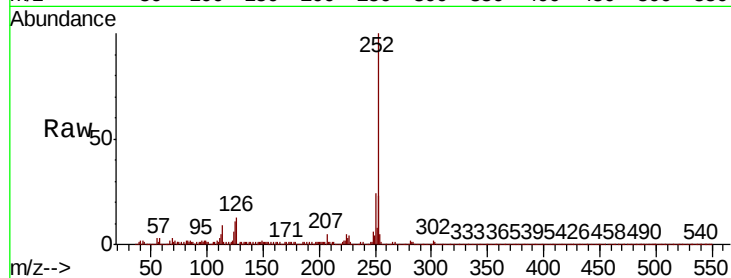
#90  
Benzo(a)pyrene  
Concen: 5.106 ng  
RT: 15.39 min Scan# 2262  
Delta R.T. -0.01 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

Instrument :  
BNA\_P  
ClientSampled :  
RO-3-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.0  | 25.6  |
| 125     | 11.1  | 8.4   | 12.6  |

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#92  
Benzo(g,h,i)perylene  
Concen: 3.725 ng  
RT: 17.36 min Scan# 2597  
Delta R.T. -0.02 min  
Lab File: BP000516.D  
Acq: 04 Oct 2019 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.4  | 19.4  | 29.2  |
| 138     | 20.9  | 18.5  | 27.7  |

