

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP052820\  
 Data File : BP002311.D  
 Acq On : 28 May 2020 15:58  
 Operator : CG/JU  
 Sample : L2745-13  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 NM11-COMP-2020-0-6

Manual Integrations  
 APPROVED

mohammad  
 5/29/2020 10:31:11 PM

Quant Time: May 29 03:08:07 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP052720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 28 11:01:43 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.60  | 152  | 321813   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.38 | 136  | 1313483  | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.25 | 164  | 752749   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.00 | 188  | 1540293  | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.10 | 240  | 1360692  | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.29 | 264  | 1442216  | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.23  | 112  | 1594530  | 93.06  | ng    | 0.00     |
| 7) Phenol-d6                | 6.79  | 99   | 2215652  | 95.06  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.75  | 82   | 1597365  | 73.12  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.75 | 330  | 691801   | 96.97  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.87 | 172  | 3168318  | 74.27  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.59 | 244  | 3892708  | 69.28  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 13.71 | 163  | 313536   | 6.154  | ng    | 99       |
| 71) Phenanthrene            | 17.04 | 178  | 949306   | 13.011 | ng    | 99       |
| 72) Anthracene              | 17.13 | 178  | 244011   | 3.399  | ng    | 99       |
| 75) Fluoranthene            | 19.02 | 202  | 1819364  | 21.650 | ng    | 99       |
| 78) Pyrene                  | 19.37 | 202  | 1655143  | 19.534 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.08 | 228  | 877518   | 11.266 | ng    | 98       |
| 83) Chrysene                | 21.13 | 228  | 801480   | 10.722 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.50 | 276  | 498892   | 5.589  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 22.64 | 252  | 1032195m | 13.127 | ng    |          |
| 89) Benzo(k)fluoranthene    | 22.67 | 252  | 385302m  | 5.106  | ng    |          |
| 90) Benzo(a)pyrene          | 23.20 | 252  | 785332   | 10.767 | ng    | # 98     |
| 92) Benzo(a,h,i)perylene    | 26.17 | 276  | 502037   | 6.762  | ng    | # 93     |

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

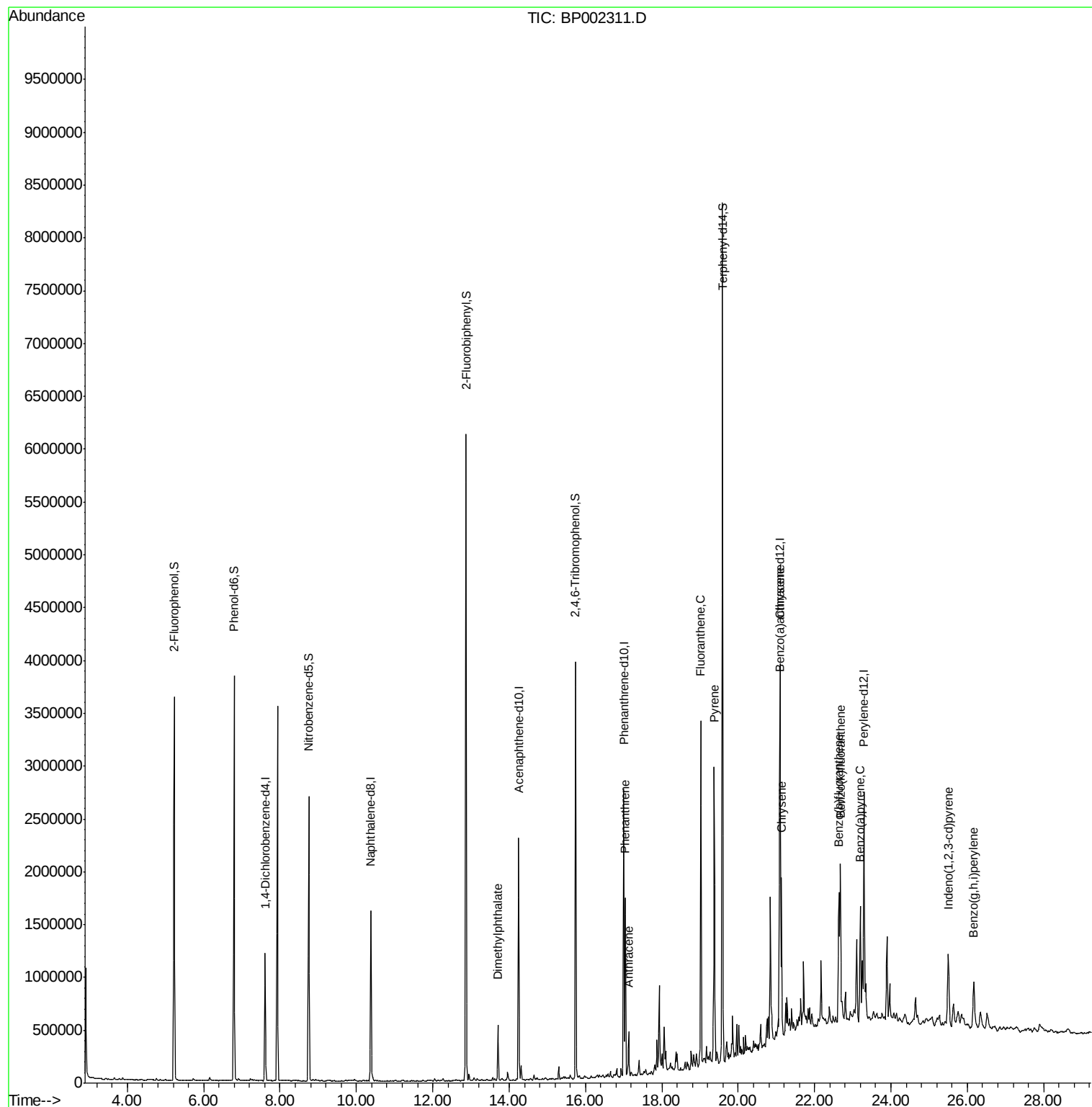
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP052820\  
Data File : BP002311.D  
Acq On : 28 May 2020 15:58  
Operator : CG/JU  
Sample : L2745-13  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

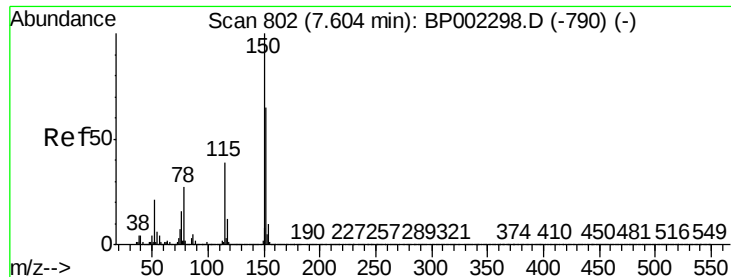
Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

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Quant Time: May 29 03:08:07 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP052720.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 28 11:01:43 2020  
Response via : Initial Calibration





#1

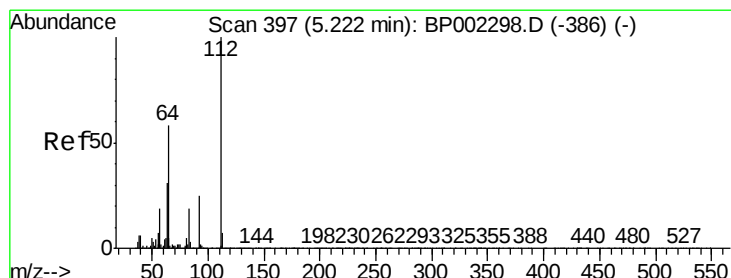
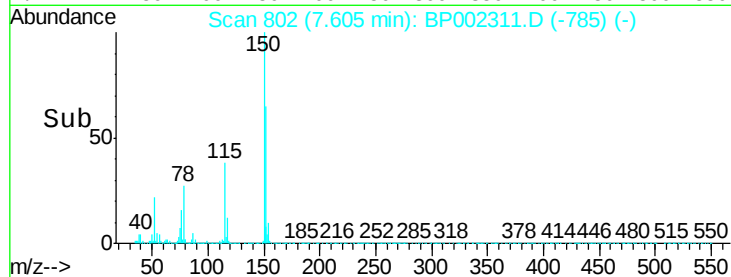
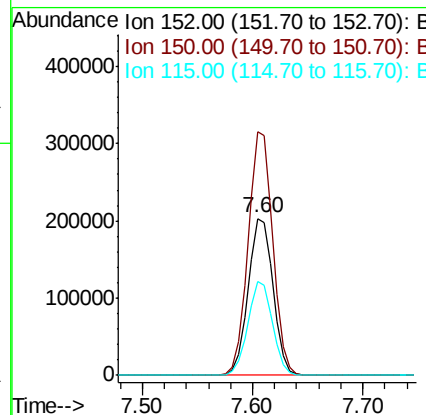
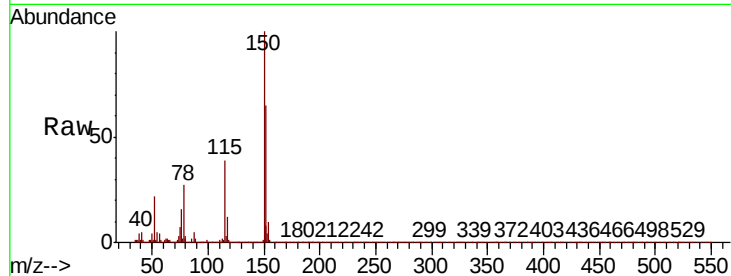
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.60 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.0 | 124.7 | 187.1 |
| 115     | 59.7  | 49.4  | 74.2  |

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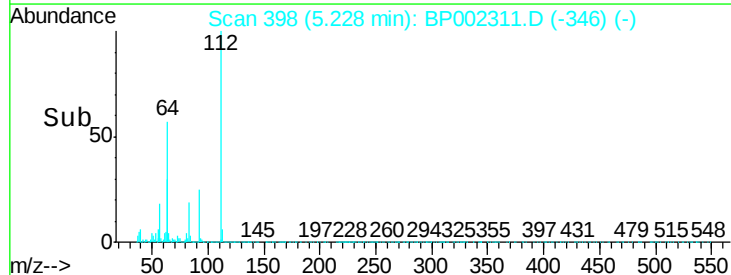
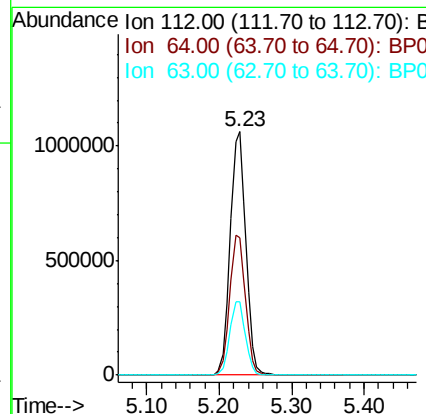
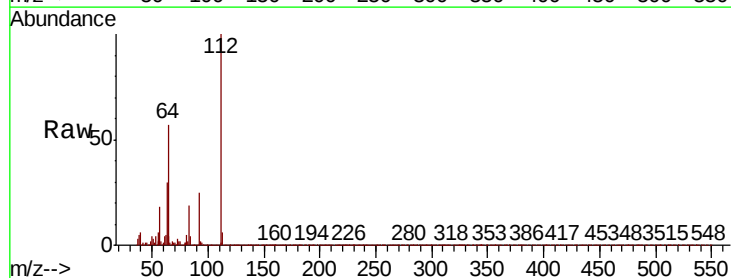
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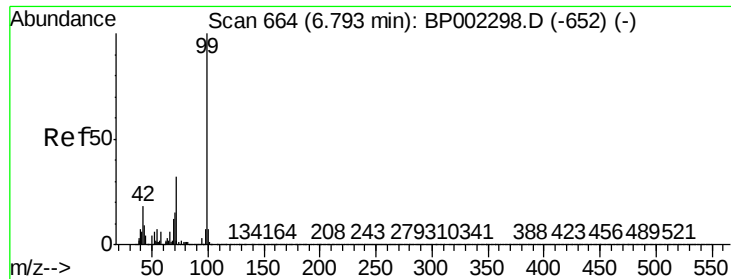


#5

2-Fluorophenol  
Concen: 93.058 ng  
RT: 5.23 min Scan# 398  
Delta R.T. 0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.6  | 47.0  | 70.4  |
| 63      | 30.3  | 24.0  | 36.0  |





#7

Phenol-d6

Concen: 95.056 ng

RT: 6.79 min Scan# 664

Delta R.T. 0.01 min

Lab File: BP002311.D

Acq: 28 May 2020 15:58

Instrument :

BNA\_P

ClientSampleId :

NM11-COMP-2020-0-6

Tot Ion: 99 Resp: 2215652

Ion Ratio Lower Upper

99 100

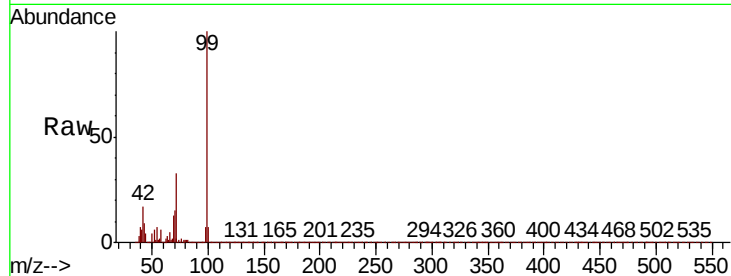
42 17.4 13.9 20.9

71 33.2 25.8 38.8

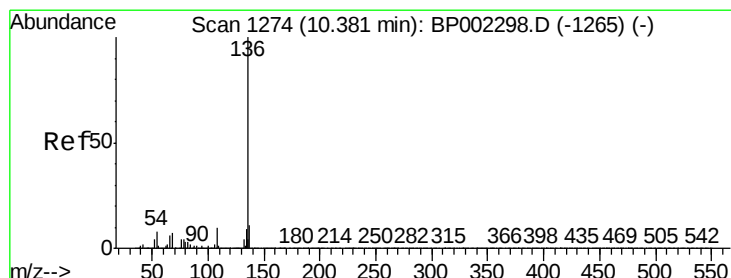
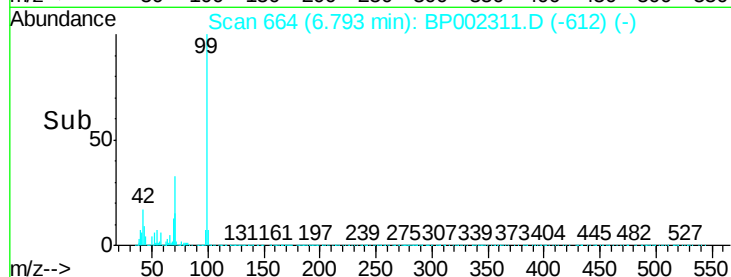
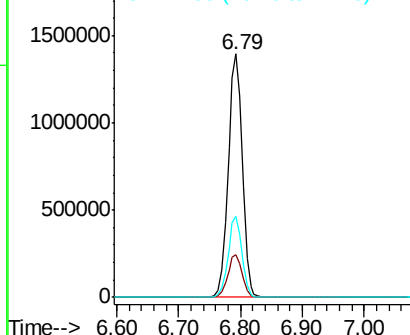
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Abundance Ion 99.00 (98.70 to 99.70): BP0  
Ion 42.00 (41.70 to 42.70): BP0  
Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.38 min Scan# 1273

Delta R.T. -0.00 min

Lab File: BP002311.D

Acq: 28 May 2020 15:58

Tgt Ion: 136 Resp: 1313483

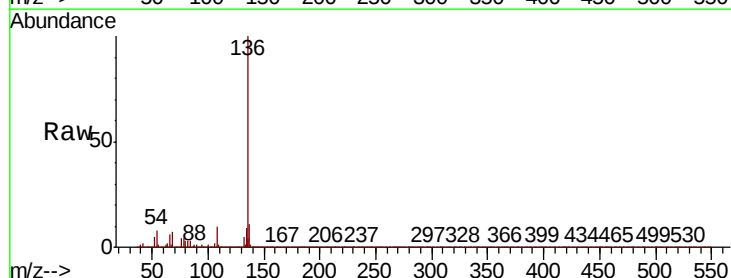
Ion Ratio Lower Upper

136 100

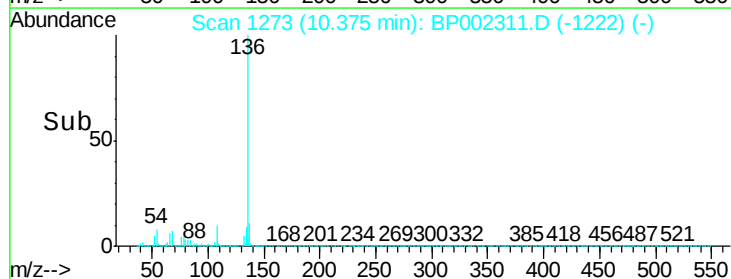
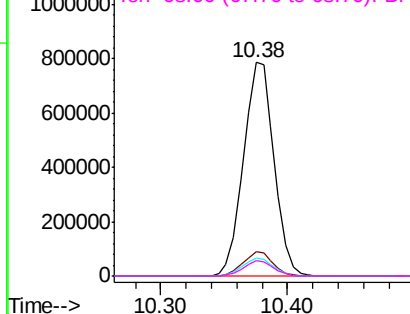
137 11.2 8.8 13.2

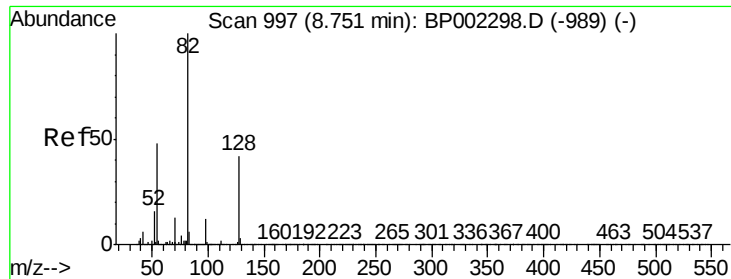
54 8.5 6.9 10.3

68 7.1 5.6 8.4



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BP0  
Ion 68.00 (67.70 to 68.70): BP0





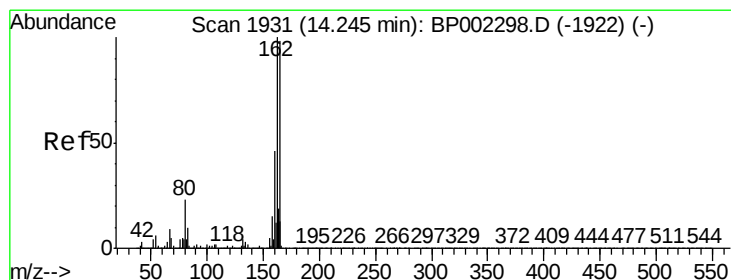
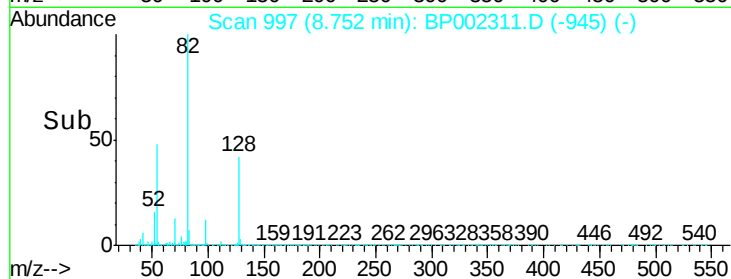
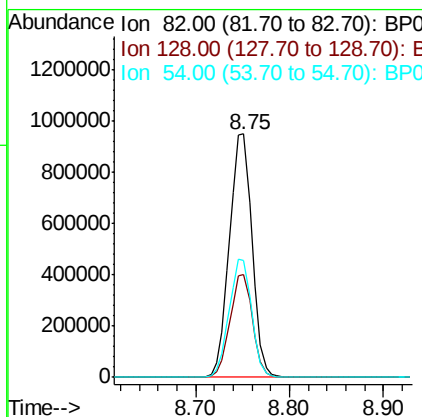
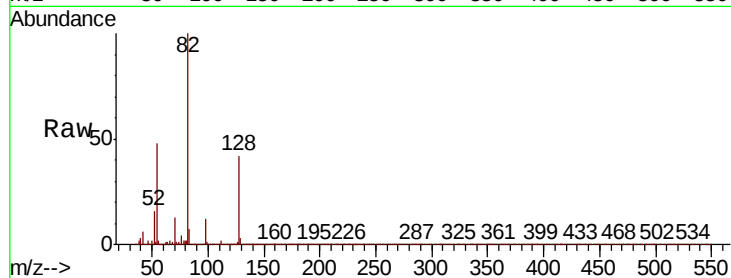
#23  
Nitrobenzene-d5  
Concen: 73.117 ng  
RT: 8.75 min Scan# 997  
Delta R.T. 0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.4  | 33.4  | 50.0  |
| 54      | 47.9  | 38.3  | 57.5  |

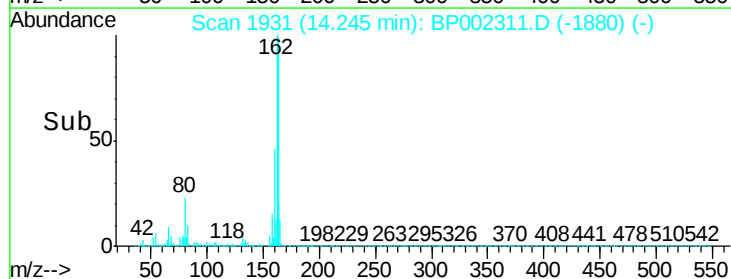
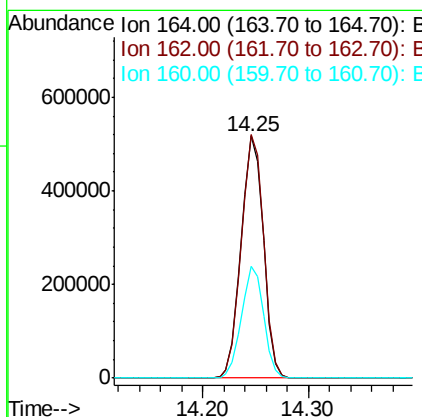
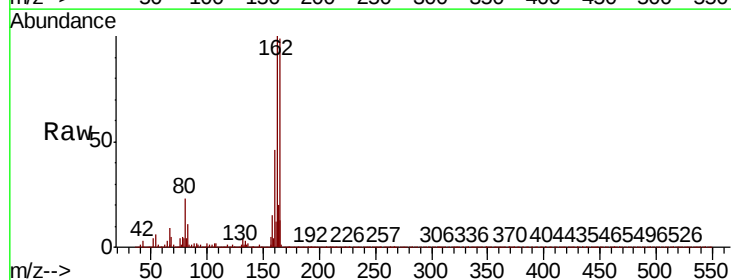
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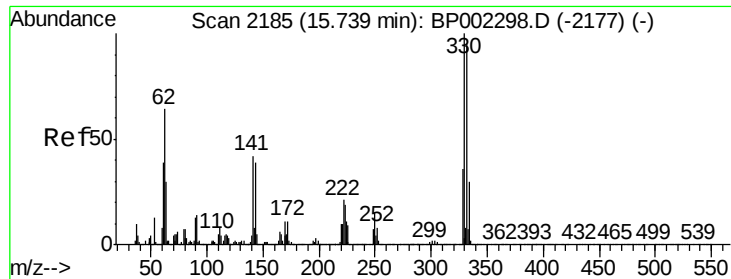
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.25 min Scan# 1931  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.5 | 81.3  | 121.9 |
| 160     | 46.4  | 37.2  | 55.8  |





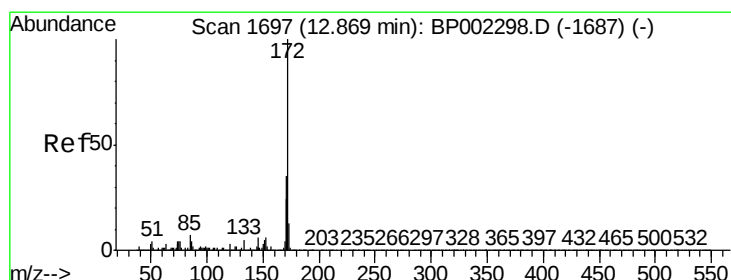
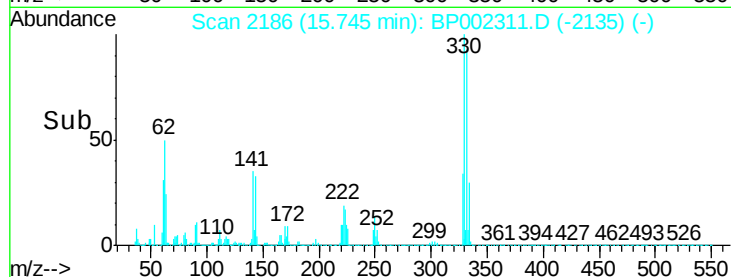
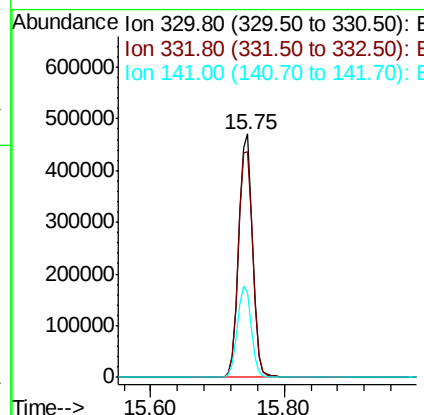
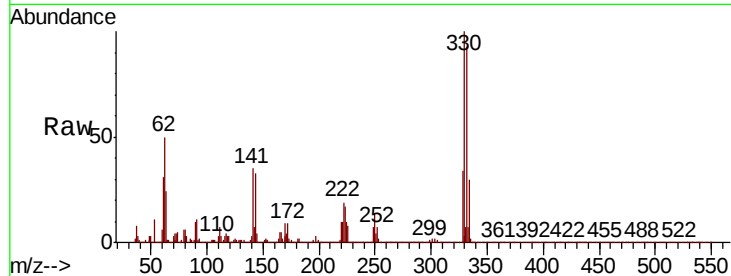
#42  
2,4,6-Tribromophenol  
Concen: 96.969 ng  
RT: 15.75 min Scan# 2186  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 691801 |       |       |
| 332     | 96.9  | 76.9   | 115.3 |       |
| 141     | 37.7  | 31.4   | 47.2  |       |

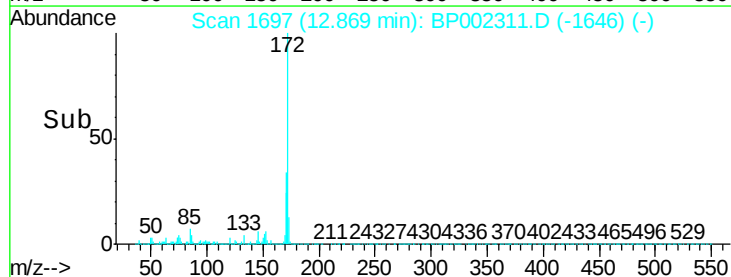
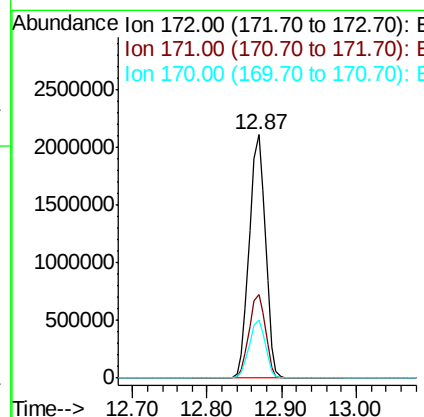
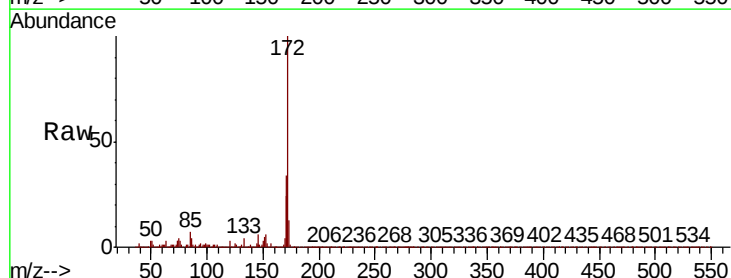
Manual Integrations  
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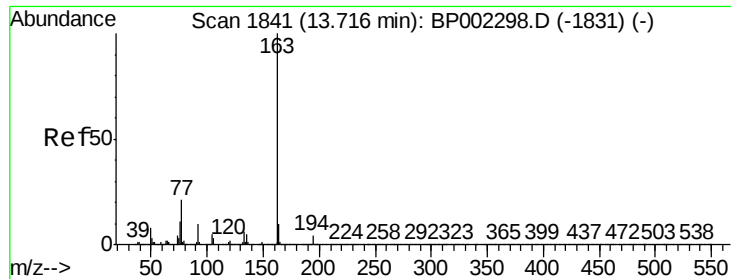
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#45  
2-Fluorobiphenyl  
Concen: 74.269 ng  
RT: 12.87 min Scan# 1697  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 3168318 |       |       |
| 171     | 34.4  | 27.6    | 41.4  |       |
| 170     | 24.0  | 18.9    | 28.3  |       |





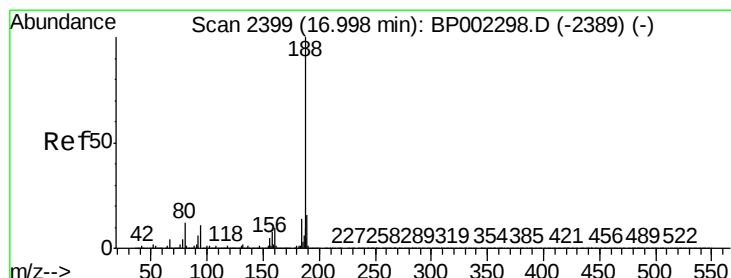
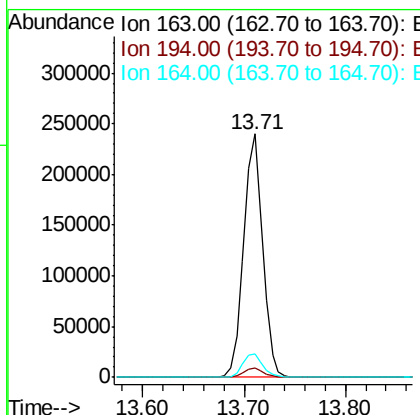
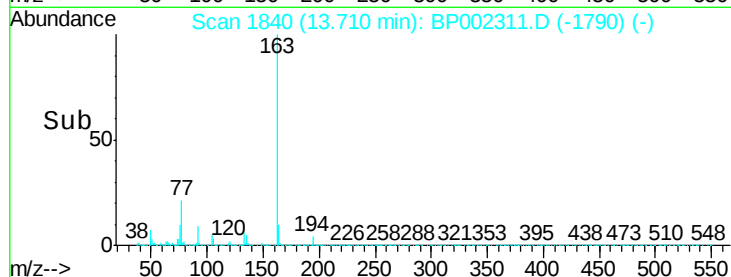
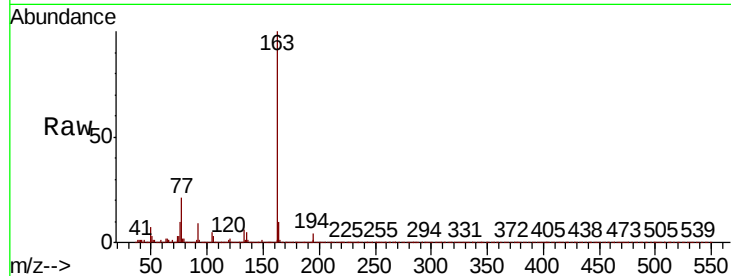
#50  
Dimethylphthalate  
Concen: 6.154 ng  
RT: 13.71 min Scan# 1840  
Delta R.T. -0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 3.9   | 3.2        | 4.8   |
| 164     | 9.5   | 8.1        | 12.1  |

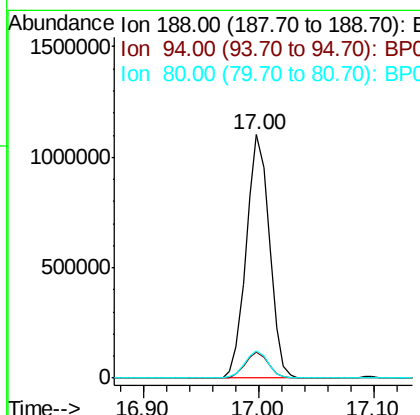
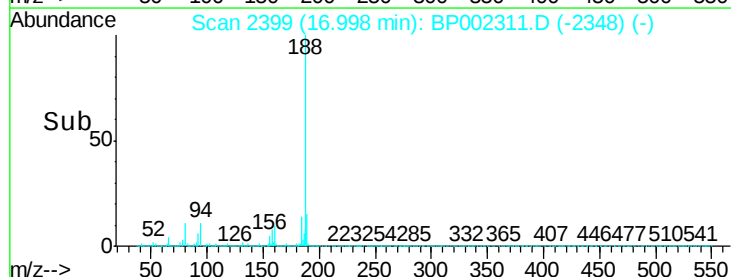
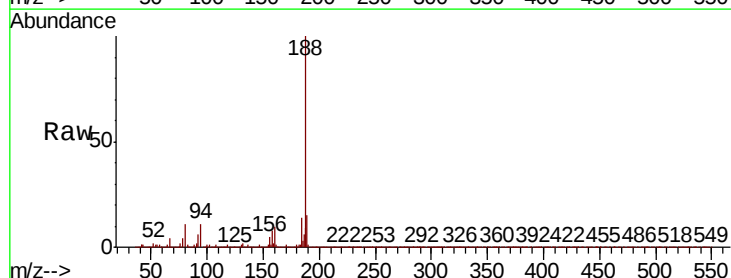
Manual Integrations  
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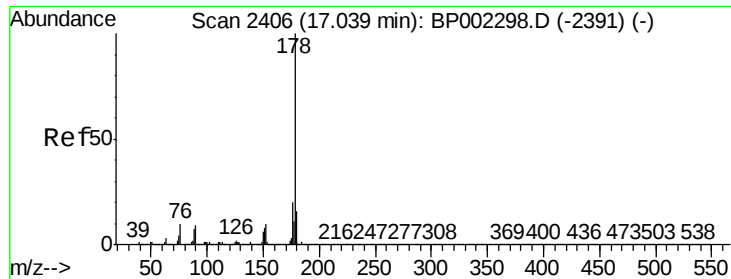
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.00 min Scan# 2399  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.6  | 8.7        | 13.1  |
| 80      | 11.4  | 9.3        | 13.9  |





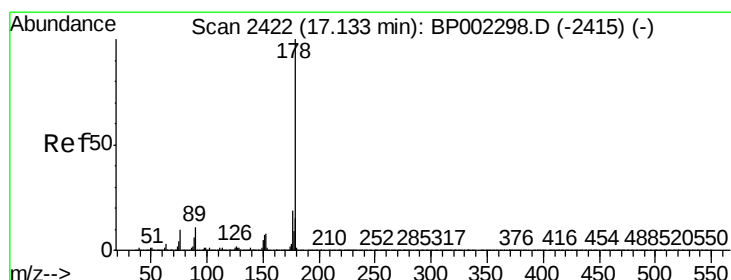
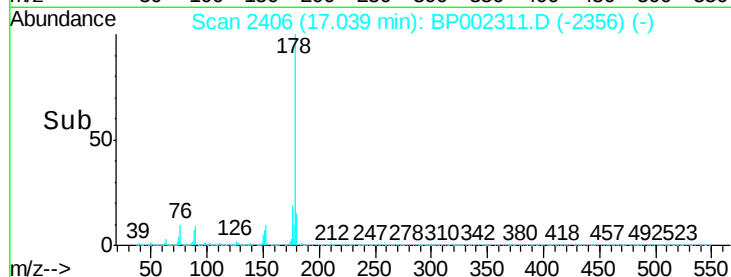
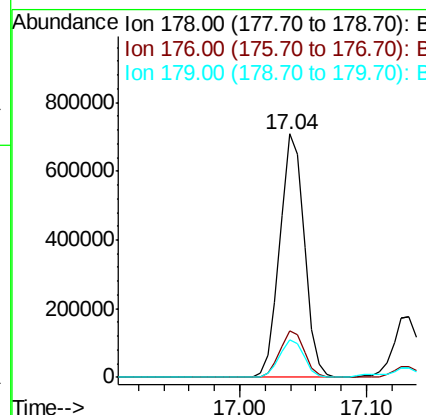
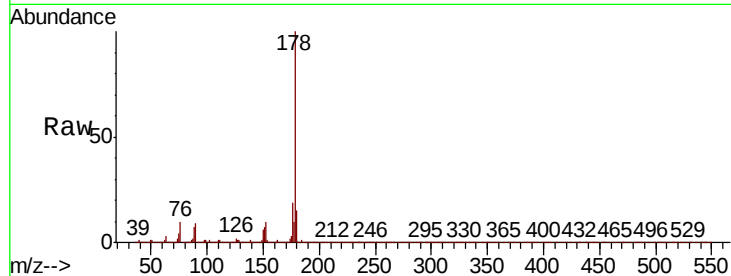
#71  
Phenanthrene  
Concen: 13.011 ng  
RT: 17.04 min Scan# 2406  
Delta R.T. -0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 15.8  | 23.8  |
| 179     | 15.2  | 12.6  | 18.8  |

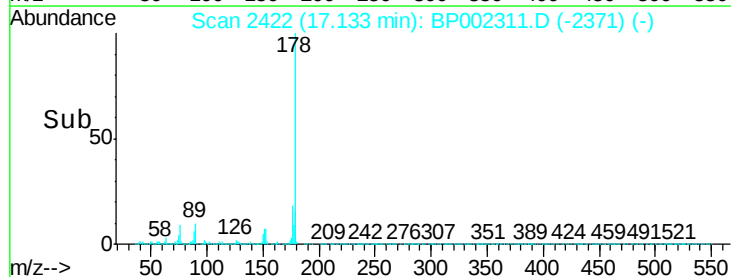
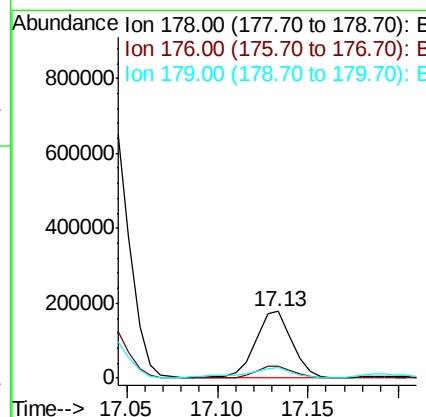
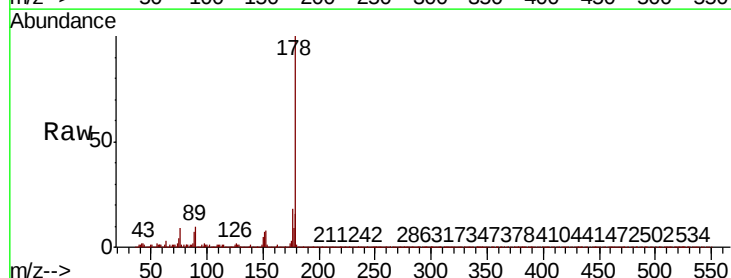
Manual Integrations  
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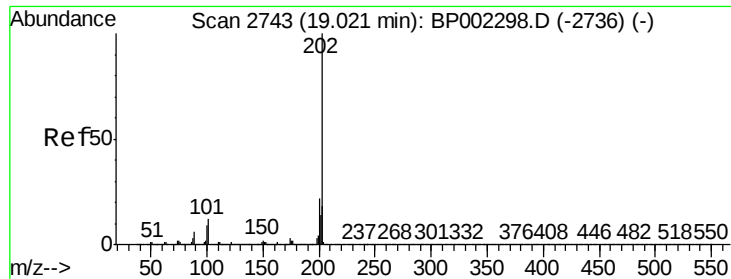
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#72  
Anthracene  
Concen: 3.399 ng  
RT: 17.13 min Scan# 2422  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.2  | 22.8  |
| 179     | 15.6  | 12.6  | 19.0  |





#75

Fluoranthene

Concen: 21.650 ng

RT: 19.02 min Scan# 2743

Delta R.T. -0.00 min

Lab File: BP002311.D

Acq: 28 May 2020 15:58

Instrument :

BNA\_P

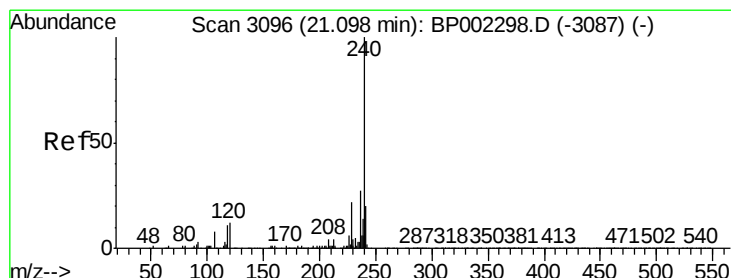
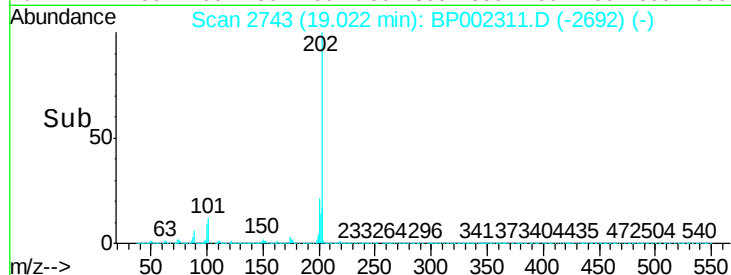
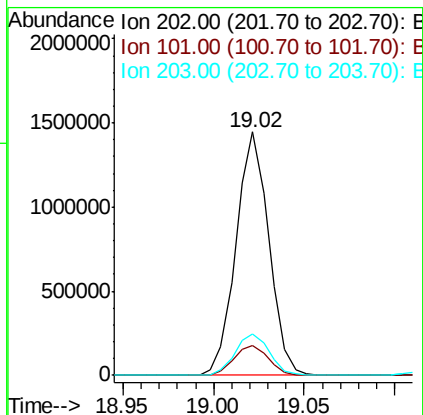
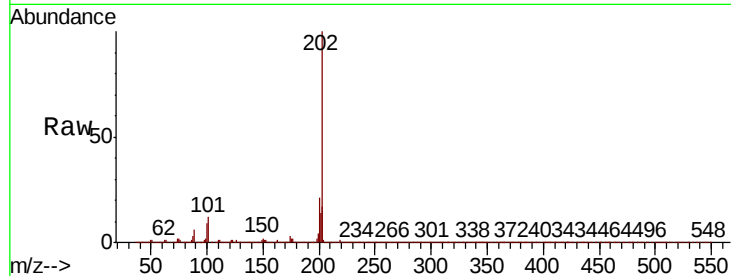
ClientSampleId :

NM11-COMP-2020-0-6

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1819364 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.3  | 0.0   | 32.1    |
| 203       | 16.8  | 0.0   | 37.6    |

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#76

Chrysene-d12

Concen: 20.000 ng

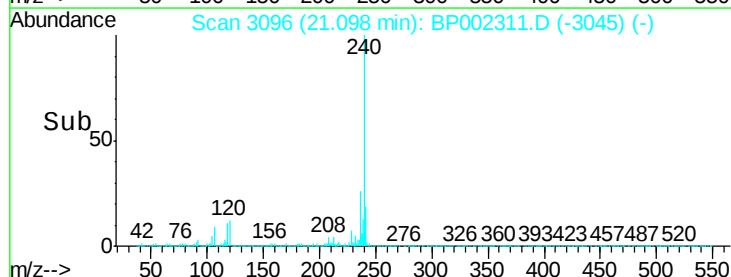
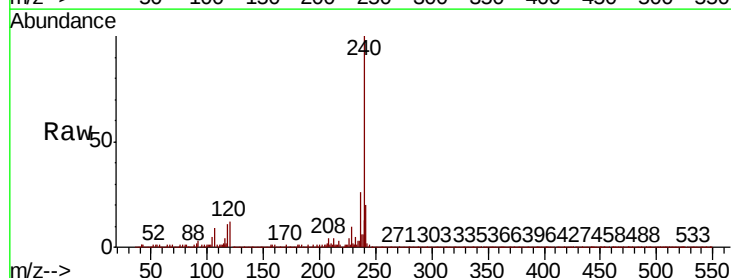
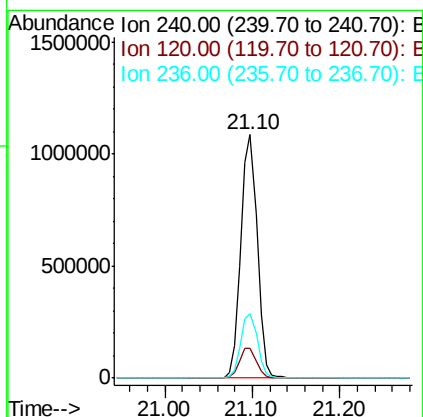
RT: 21.10 min Scan# 3096

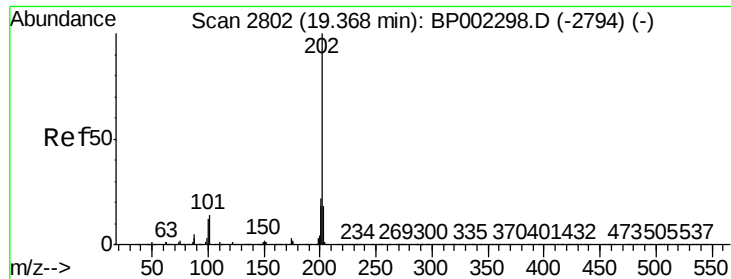
Delta R.T. -0.00 min

Lab File: BP002311.D

Acq: 28 May 2020 15:58

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 240   | Resp: | 1360692 |
| Ion Ratio | Lower | Upper |         |
| 240       | 100   |       |         |
| 120       | 12.2  | 8.7   | 13.1    |
| 236       | 26.4  | 21.0  | 31.4    |





#78

Pvrene

Concen: 19.534 ng

RT: 19.37 min Scan# 2802

Delta R.T. -0.00 min

Lab File: BP002311.D

Acq: 28 May 2020 15:58

Instrument :

BNA\_P

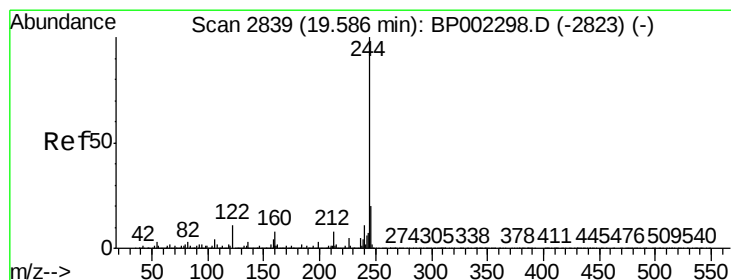
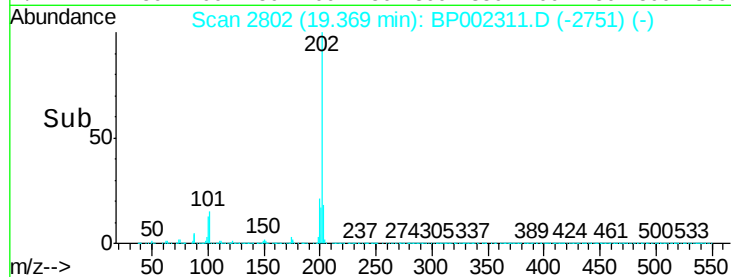
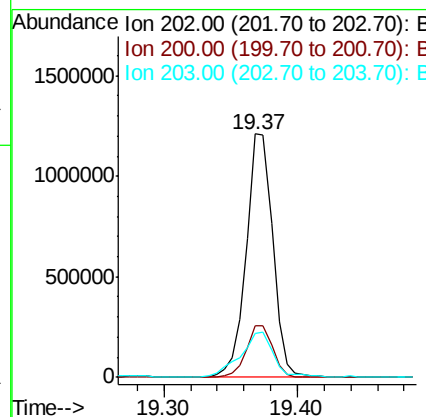
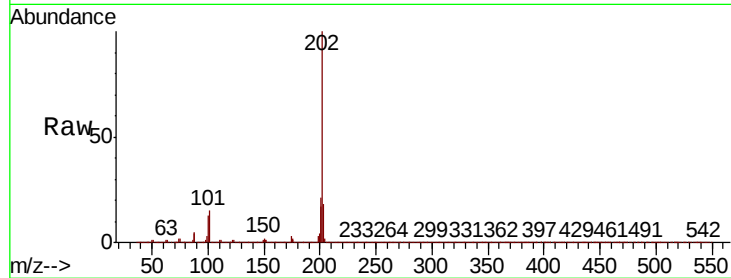
ClientSampleId :

NM11-COMP-2020-0-6

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1655143 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 200      | 21.0  | 17.3  | 25.9    |
| 203      | 18.2  | 13.8  | 20.6    |

Manual Integrations  
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#79

Terphenyl-d14

Concen: 69.281 ng

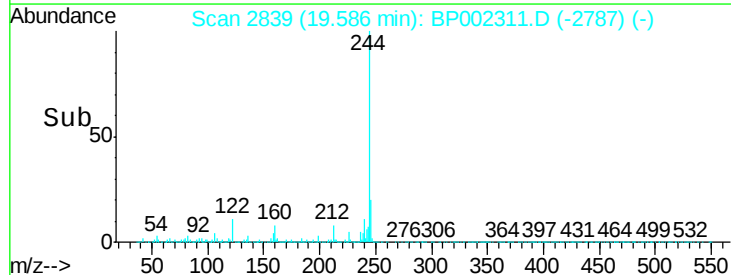
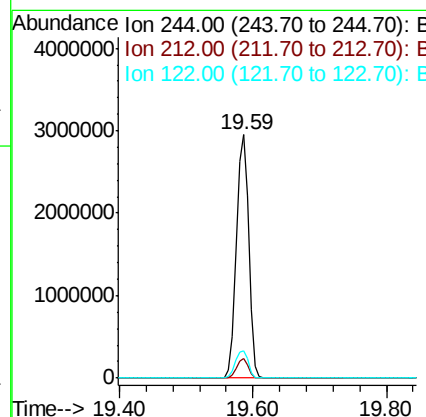
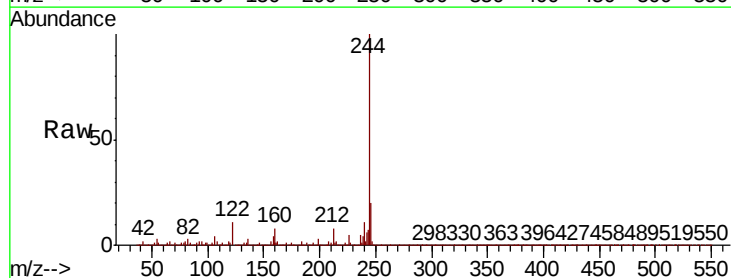
RT: 19.59 min Scan# 2839

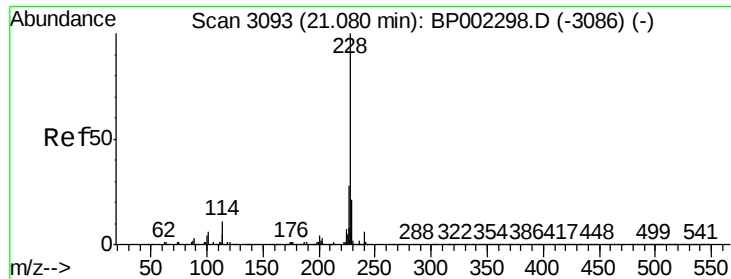
Delta R.T. 0.01 min

Lab File: BP002311.D

Acq: 28 May 2020 15:58

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 244   | Resp: | 3892708 |
| Ion      | Ratio | Lower | Upper   |
| 244      | 100   |       |         |
| 212      | 7.9   | 6.4   | 9.6     |
| 122      | 11.2  | 9.4   | 14.0    |





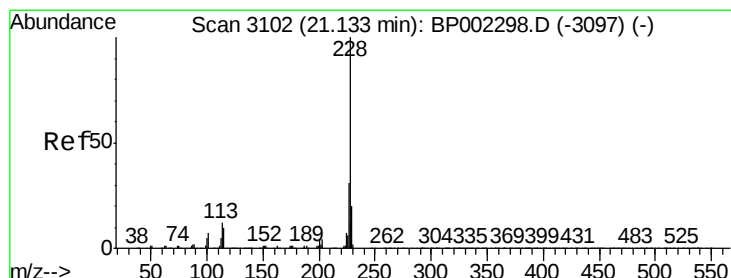
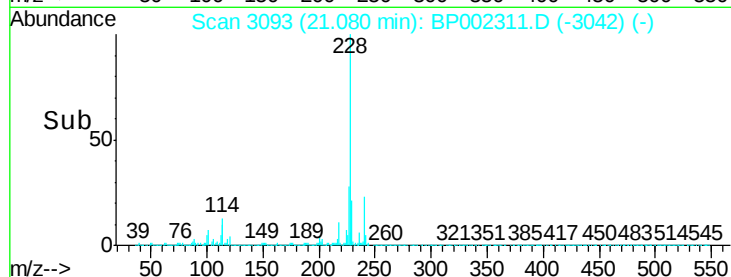
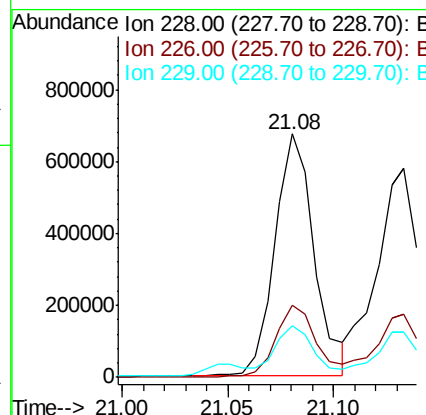
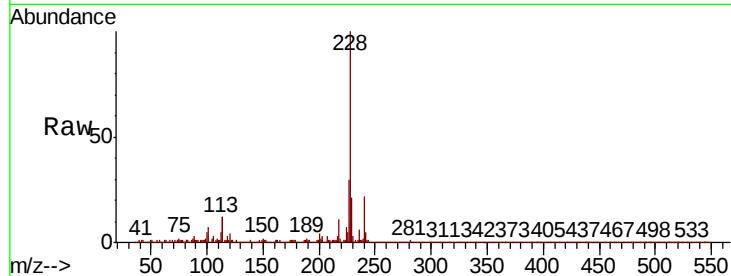
#81  
Benzo(a)anthracene  
Concen: 11.266 ng  
RT: 21.08 min Scan# 3093  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 22.7  | 34.1  |
| 229     | 21.4  | 16.3  | 24.5  |

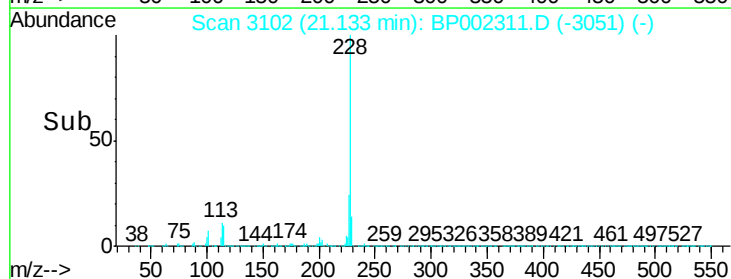
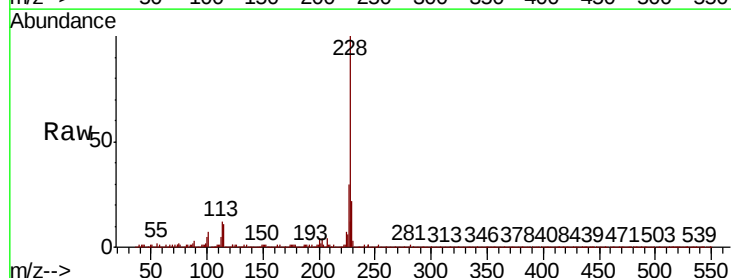
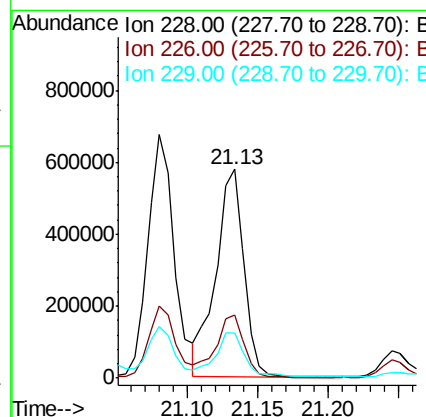
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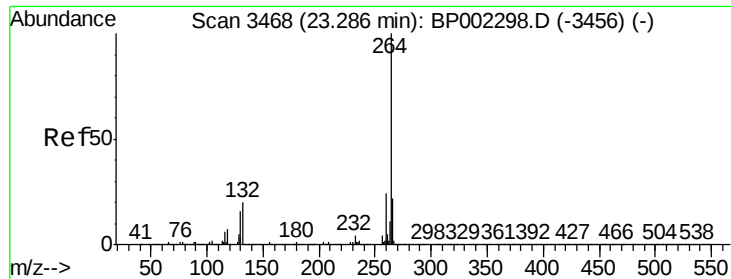
mohammad  
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#83  
Chrysene  
Concen: 10.722 ng  
RT: 21.13 min Scan# 3102  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 25.0  | 37.6  |
| 229     | 21.6  | 16.2  | 24.4  |





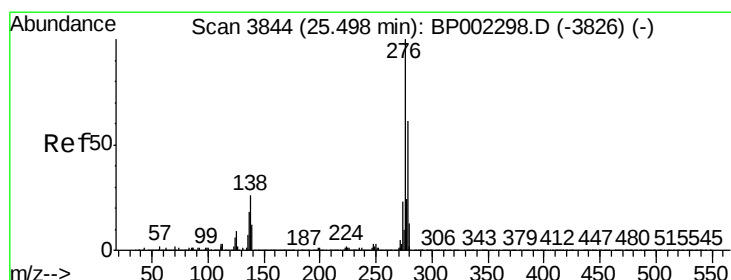
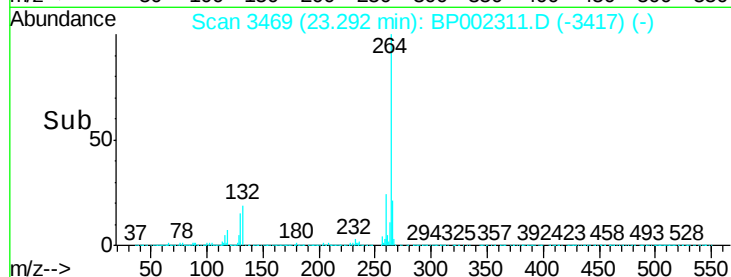
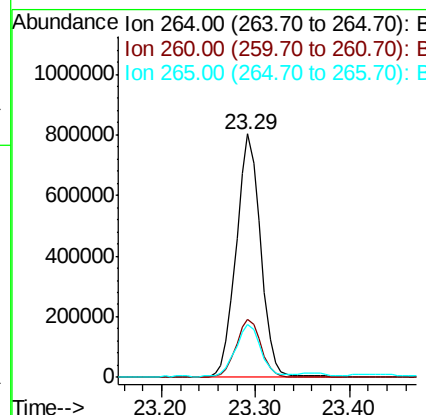
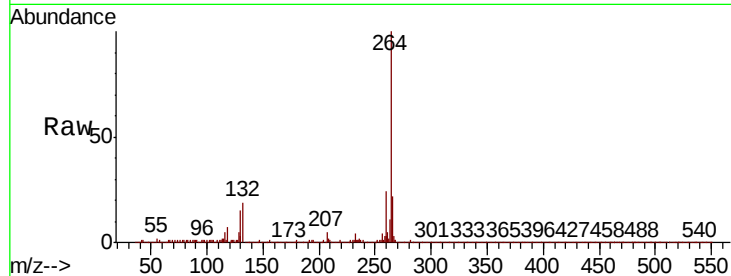
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.29 min Scan# 3469  
Delta R.T. 0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.4  | 29.2  |
| 265     | 21.6  | 17.8  | 26.6  |

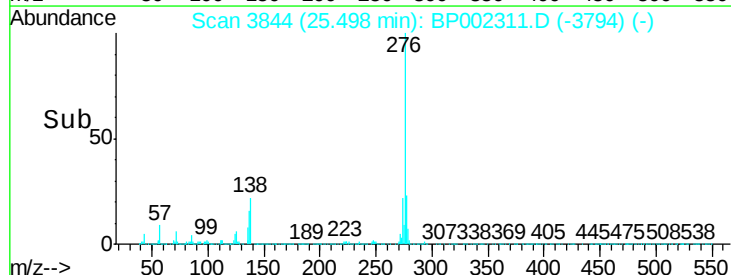
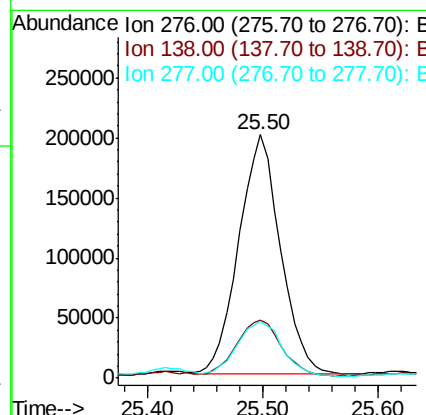
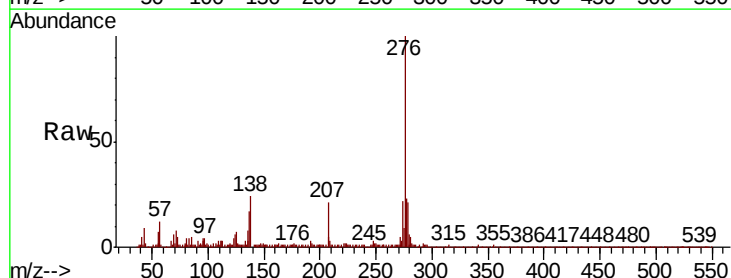
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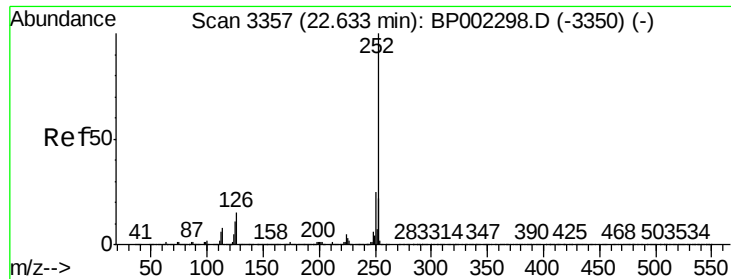
mohammad  
5/29/2020 10:31:11 PM



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.589 ng  
RT: 25.50 min Scan# 3844  
Delta R.T. -0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.1  | 18.2  | 27.4  |
| 277     | 25.0  | 20.2  | 30.2  |





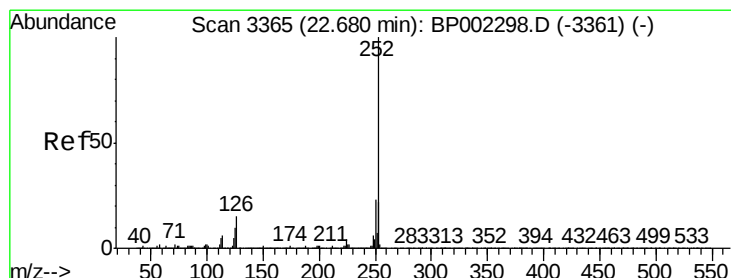
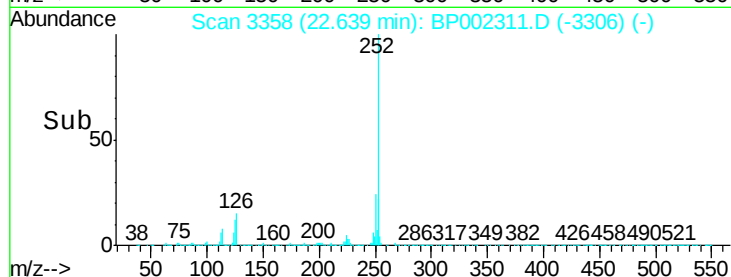
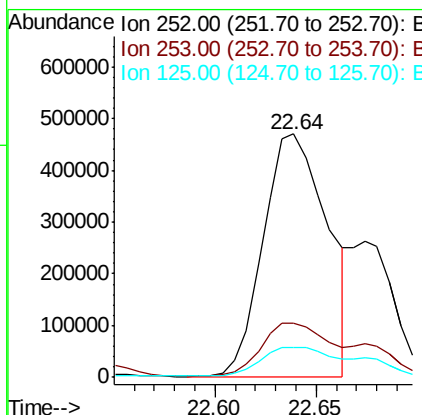
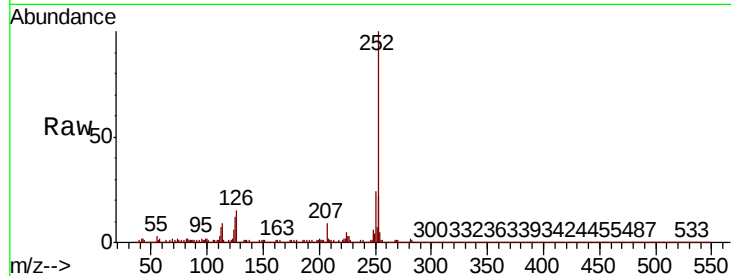
#88  
Benzo(b)fluoranthene  
Concen: 13.127 ng m  
RT: 22.64 min Scan# 3358  
Delta R.T. 0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 18.2  | 27.2  |
| 125     | 12.5  | 7.2   | 10.8  |

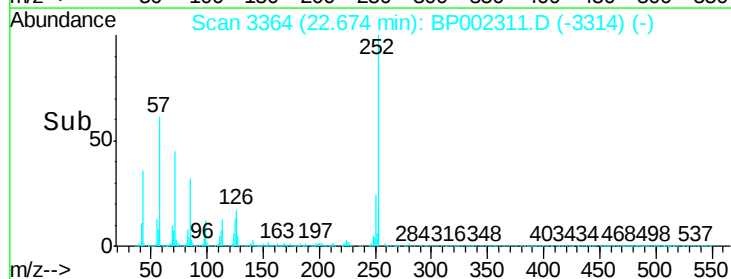
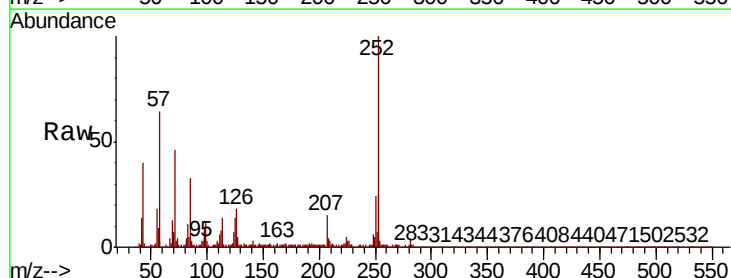
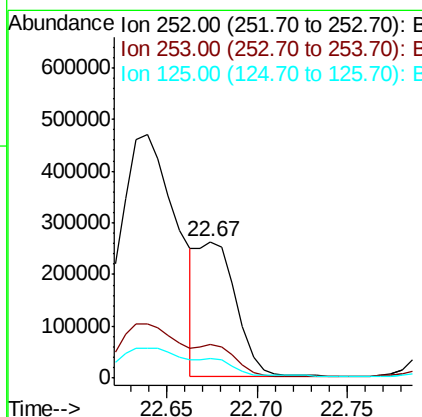
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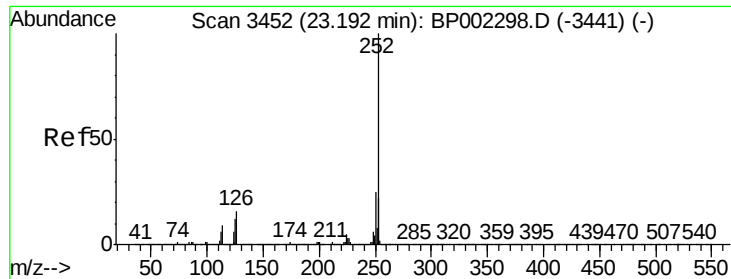
mohammad  
5/29/2020 10:31:11 PM



#89  
Benzo(k)fluoranthene  
Concen: 5.106 ng m  
RT: 22.67 min Scan# 3364  
Delta R.T. -0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 17.9  | 26.9  |
| 125     | 13.9  | 7.4   | 11.2  |





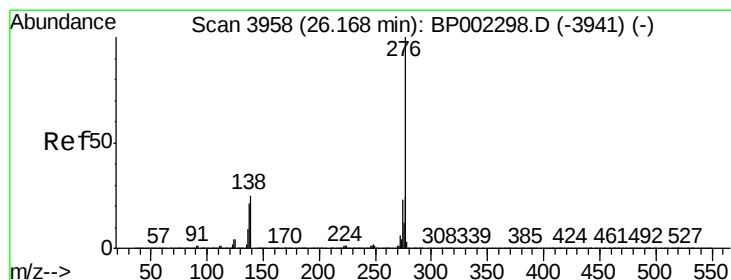
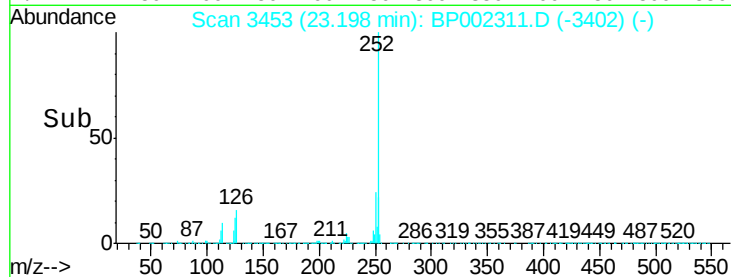
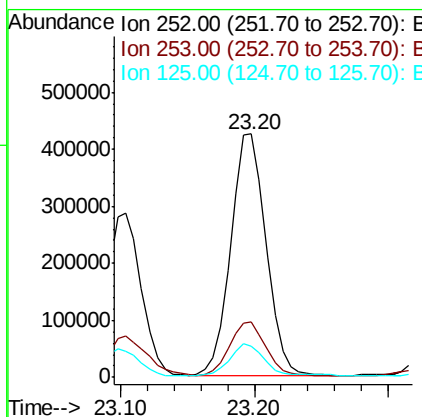
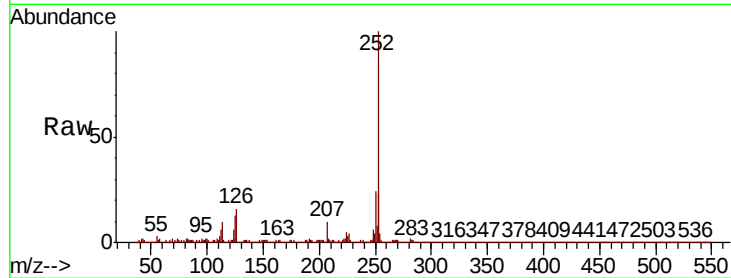
#90  
Benzo(a)pyrene  
Concen: 10.767 ng  
RT: 23.20 min Scan# 3453  
Delta R.T. -0.00 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

Instrument :  
BNA\_P  
ClientSampleId :  
NM11-COMP-2020-0-6

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.7  | 18.0       | 27.0  |
| 125     | 12.6  | 8.4        | 12.6  |

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#92  
Benzo(g,h,i)perylene  
Concen: 6.762 ng  
RT: 26.17 min Scan# 3958  
Delta R.T. -0.01 min  
Lab File: BP002311.D  
Acq: 28 May 2020 15:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 24.1  | 18.6       | 28.0  |
| 138     | 25.8  | 16.0       | 24.0  |

