

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\  
 Data File : BF116037.D  
 Acq On : 7 Aug 2019 4:05  
 Operator : HP/JU  
 Sample : K4090-03 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

Manual Integrations  
 APPROVED

mohammad  
 8/7/2019 4:42:17 PM

Quant Time: Aug 07 06:53:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 123238   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.12  | 136  | 488372   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.87  | 164  | 248551   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 397626   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 14.00 | 240  | 319968   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.47 | 264  | 353305   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.46  | 112  | 365709   | 49.68 | ng    | 0.00     |
| 7) Phenol-d6                | 6.47  | 99   | 490968   | 52.86 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 291384   | 34.44 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 100217   | 41.59 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 554985   | 41.82 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.95 | 244  | 522997   | 34.44 | ng    | -0.02    |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 2.40  | 88   | 110      | 0.030  | ng    | # 25   |
| 6) Aniline                     | 6.61  | 93   | 347      | 0.026  | ng    | # 1    |
| 9) Benzaldehyde                | 6.47  | 77   | 791      | 0.123  | ng    | # 1    |
| 10) Phenol                     | 6.49  | 94   | 9225     | 0.843  | ng    | # 56   |
| 11) bis(2-Chloroethyl)ether    | 6.61  | 93   | 347      | 0.043  | ng    | # 1    |
| 15) Benzyl Alcohol             | 7.00  | 79   | 5226     | 0.741  | ng    | # 43   |
| 18) Hexachloroethane           | 7.41  | 117  | 285      | 0.082  | ng    | # 1    |
| 22) Acetophenone               | 7.24  | 105  | 109      | 0.010  | ng    | # 52   |
| 24) Nitrobenzene               | 7.40  | 77   | 1025     | 0.112  | ng    | # 33   |
| 31) Naphthalene                | 8.15  | 128  | 68356    | 2.974  | ng    | # 98   |
| 33) 4-Chloroaniline            | 8.15  | 127  | 8216     | 0.800  | ng    | # 32   |
| 35) Caprolactam                | 8.55  | 113  | 112      | 0.051  | ng    | # 1    |
| 36) 4-Chloro-3-methylphenol    | 8.42  | 107  | 115      | 0.016  | ng    | # 18   |
| 37) 2-Methylnaphthalene        | 8.84  | 142  | 31896    | 2.107  | ng    | # 99   |
| 38) 1-Methylnaphthalene        | 8.93  | 142  | 28789    | 2.011  | ng    | # 100  |
| 46) 1,1'-Biphenyl              | 9.30  | 154  | 10638    | 0.606  | ng    | # 99   |
| 47) 2-Chloronaphthalene        | 9.37  | 162  | 489      | 0.033  | ng    | # 38   |
| 48) 2-Nitroaniline             | 9.46  | 65   | 493      | 0.102  | ng    | # 1    |
| 49) Acenaphthylene             | 9.74  | 152  | 44205    | 2.075  | ng    | # 98   |
| 50) Dimethylphthalate          | 9.59  | 163  | 44103    | 2.606  | ng    | # 99   |
| 52) Acenaphthene               | 9.91  | 154  | 50394    | 3.855  | ng    | # 97   |
| 53) 3-Nitroaniline             | 10.08 | 138  | 731      | 0.161  | ng    | # 4    |
| 55) Dibenzofuran               | 10.08 | 168  | 54386    | 2.861  | ng    | # 97   |
| 56) 4-Nitrophenol              | 9.98  | 139  | 718      | 0.247  | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 10.03 | 165  | 1508     | 0.308  | ng    | # 45   |
| 58) Fluorene                   | 10.42 | 166  | 88403    | 6.044  | ng    | # 99   |
| 60) Diethylphthalate           | 10.29 | 149  | 1005     | 0.064  | ng    | # 58   |
| 61) 4-Chlorophenyl-phenylether | 10.14 | 204  | 113      | 0.015  | ng    | # 35   |
| 62) 4-Nitroaniline             | 10.42 | 138  | 1058     | 0.225  | ng    | # 17   |
| 63) Azobenzene                 | 10.57 | 77   | 1059     | 0.065  | ng    | # 1    |
| 66) n-Nitrosodiphenylamine     | 10.27 | 169  | 3086     | 0.258  | ng    | # 87   |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 5830     | 1.370  | ng    | # 1    |
| 69) Atrazine                   | 11.07 | 200  | 345      | 0.088  | ng    | # 36   |
| 71) Phenanthrene               | 11.39 | 178  | 646769   | 31.817 | ng    | # 100  |

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 Sample : K4090-03 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

Manual Integrations  
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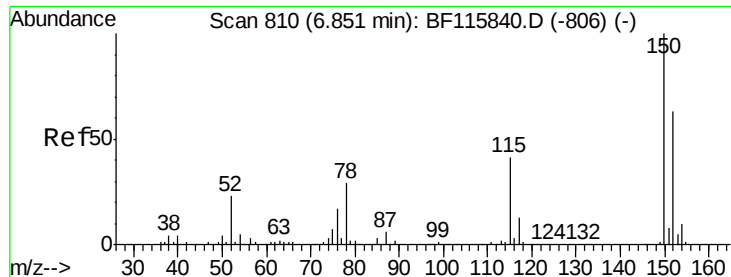
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 8/7/2019 4:42:17 PM

Quant Time: Aug 07 06:53:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
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 QLast Update : Wed Jul 31 15:31:51 2019  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| -----                      |       |      |          |        |       |          |
| 72) Anthracene             | 11.44 | 178  | 203745   | 9.904  | nq    | 99       |
| 73) Carbazole              | 11.59 | 167  | 54471    | 2.918  | nq    | 99       |
| 74) Di-n-butylphthalate    | 11.92 | 149  | 1626     | 0.075  | nq #  | 76       |
| 75) Fluoranthene           | 12.58 | 202  | 1139338  | 53.538 | nq    | 98       |
| 77) Benzidine              | 12.67 | 184  | 709      | 0.066  | nq #  | 1        |
| 78) Pyrene                 | 12.81 | 202  | 1079863  | 44.771 | nq    | 100      |
| 80) Butylbenzylphthalate   | 13.43 | 149  | 631      | 0.062  | nq #  | 1        |
| 81) Benzo(a)anthracene     | 13.99 | 228  | 619845   | 30.308 | nq    | 98       |
| 82) 3,3'-Dichlorobenzidine | 13.96 | 252  | 306      | 0.043  | nq #  | 67       |
| 83) Chrysene               | 14.03 | 228  | 527649   | 26.575 | nq    | 98       |
| 85) Di-n-octyl phthalate   | 14.59 | 149  | 2922     | 0.139  | nq #  | 66       |
| 86) Indeno(1,2,3-cd)pyrene | 16.94 | 276  | 240383   | 14.415 | nq    | 96       |
| 88) Benzo(b)fluoranthene   | 15.04 | 252  | 705478m  | 34.534 | nq    |          |
| 89) Benzo(k)fluoranthene   | 15.07 | 252  | 212261m  | 10.668 | nq    |          |
| 90) Benzo(a)pyrene         | 15.41 | 252  | 482955   | 26.447 | nq    | 98       |
| 91) Dibenzo(a,h)anthracene | 16.94 | 278  | 63859    | 4.040  | nq #  | 77       |
| 92) Benzo(g,h,i)perylene   | 17.38 | 276  | 218419   | 14.070 | nq    | 100      |
| -----                      |       |      |          |        |       |          |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.84 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

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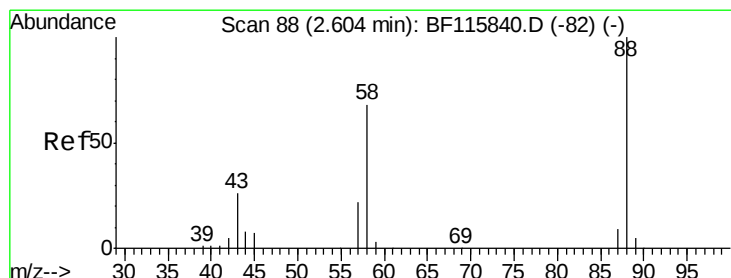
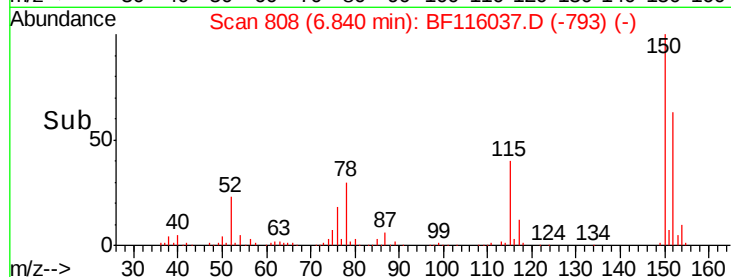
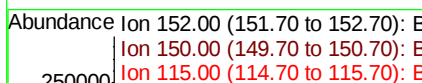
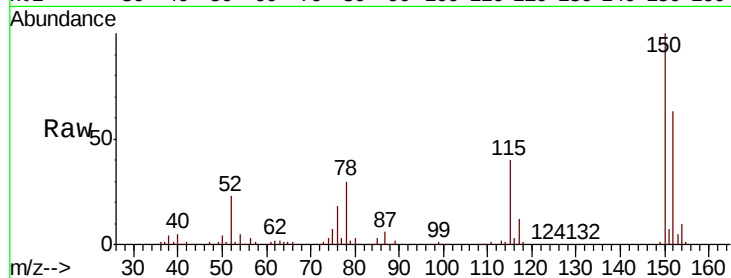
ClientSampleId :

OR-02-080219-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 123238 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 159.7 | 127.4 | 191.0  |
| 115       | 64.0  | 51.8  | 77.8   |

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#2

1,4-Dioxane

Concen: 0.030 ng

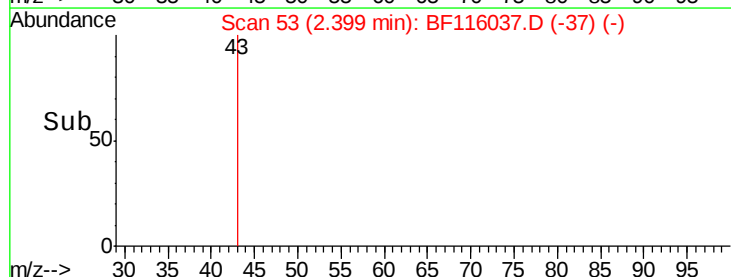
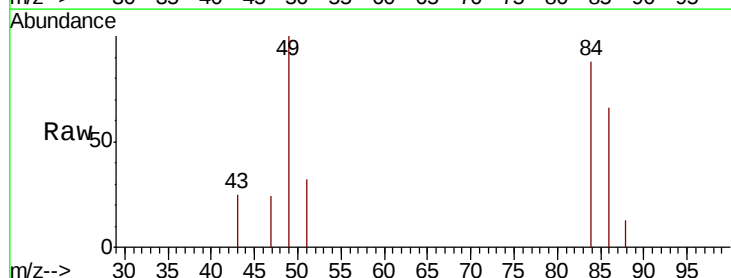
RT: 2.40 min Scan# 53

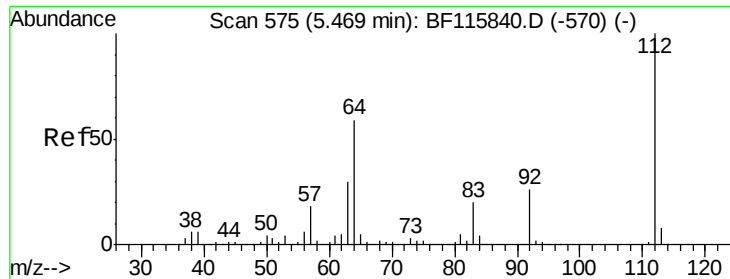
Delta R.T. -0.21 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 110   |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 0.0   | 54.1  | 81.1# |
| 43        | 0.0   | 20.7  | 31.1# |





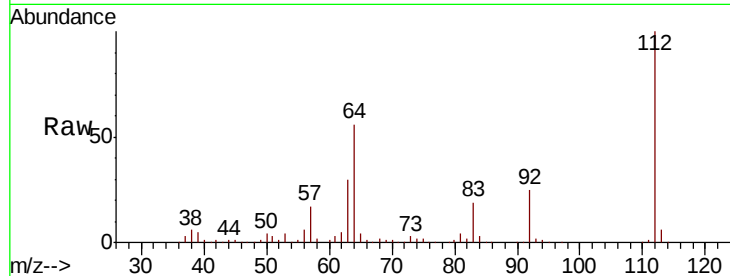
#5  
2-Fluorophenol  
Concen: 49.678 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.01 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

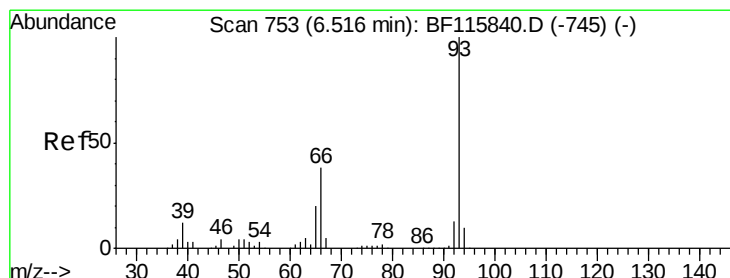
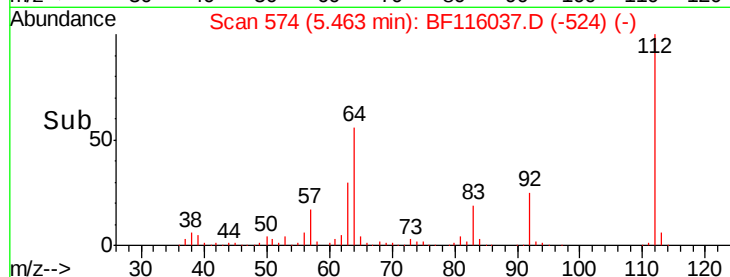
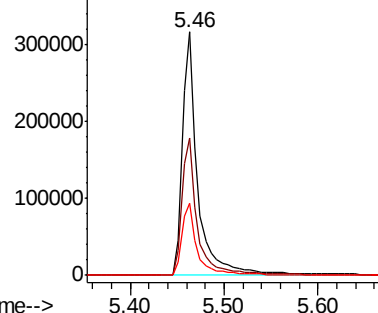
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 365709 |       |       |
| 64      | 56.2  | 46.8   | 70.2  |       |
| 63      | 29.7  | 24.2   | 36.2  |       |

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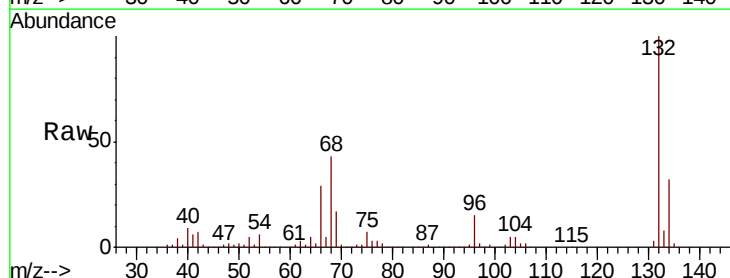


Abundance Ion 112.00 (111.70 to 112.70): BF1  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1

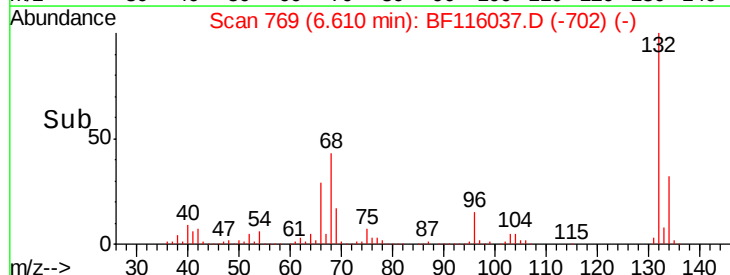
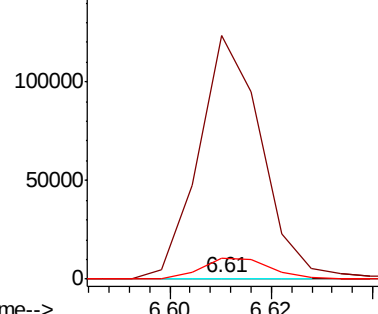


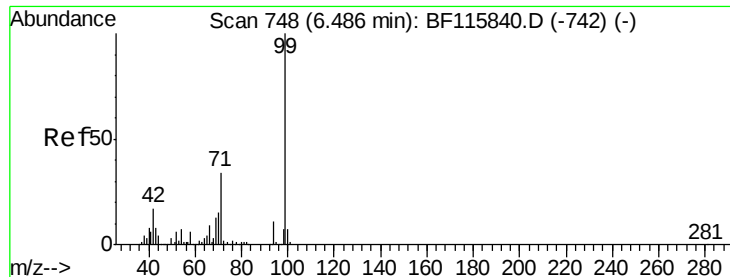
#6  
Aniline  
Concen: 0.026 ng  
RT: 6.61 min Scan# 769  
Delta R.T. 0.09 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio   | Resp | Lower | Upper |
|---------|---------|------|-------|-------|
| 93      | 100     | 347  |       |       |
| 66      | 23167.0 | 31.4 | 47.0# |       |
| 65      | 1996.4  | 16.5 | 24.7# |       |



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 52.861 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

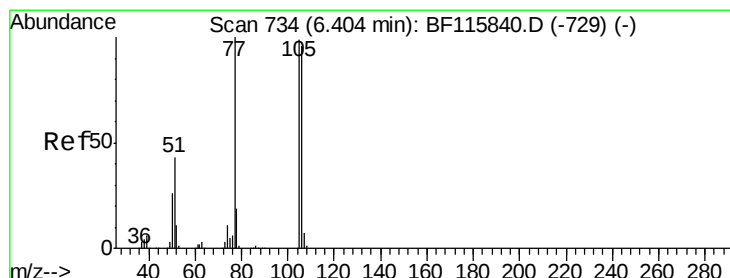
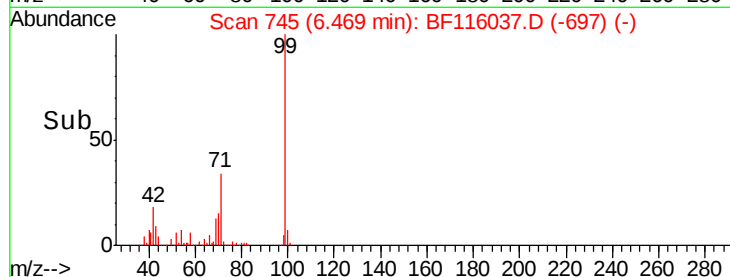
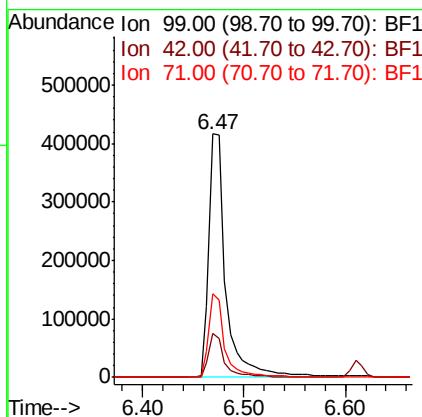
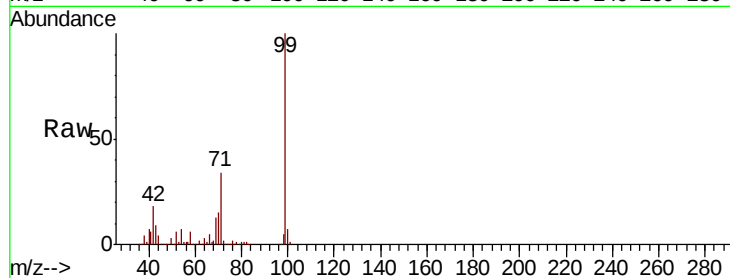
ClientSampleId :

OR-02-080219-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 490968 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.0  | 13.8  | 20.6   |
| 71        | 34.1  | 27.1  | 40.7   |

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#9

Benzaldehyde

Concen: 0.123 ng

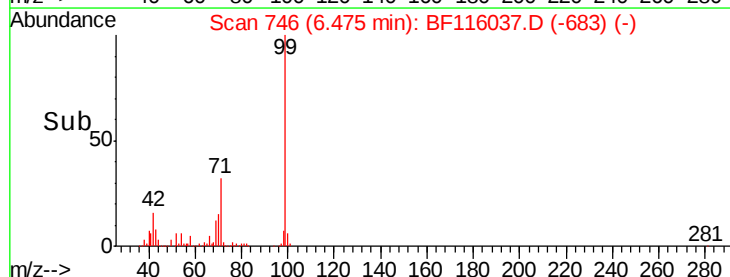
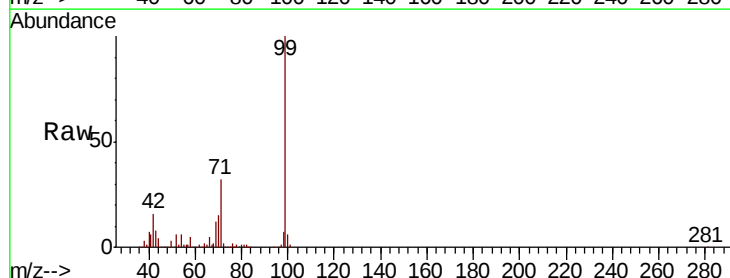
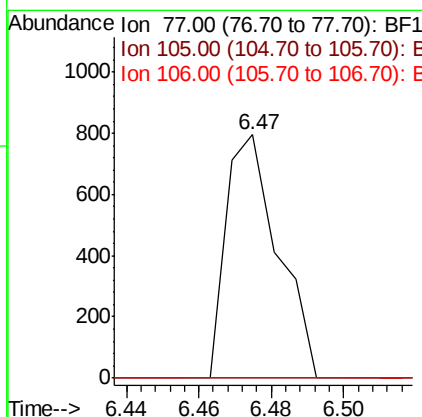
RT: 6.47 min Scan# 746

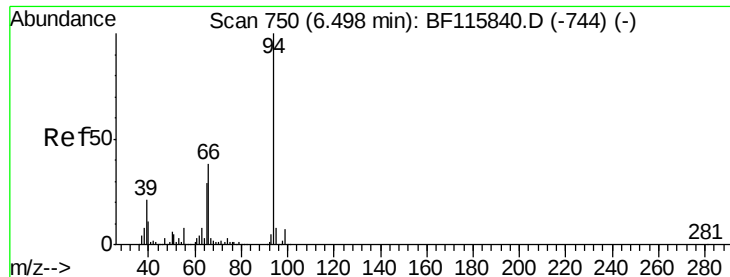
Delta R.T. 0.07 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 791    |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 0.0   | 79.0  | 119.0# |
| 106       | 0.0   | 76.2  | 116.2# |





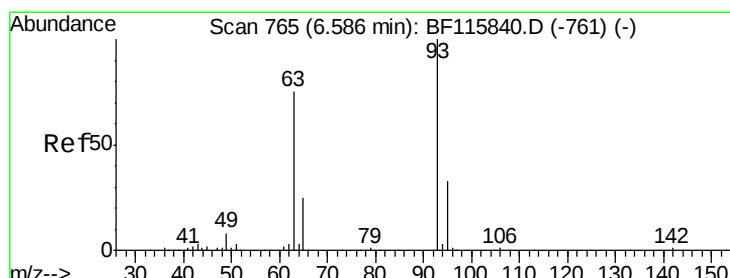
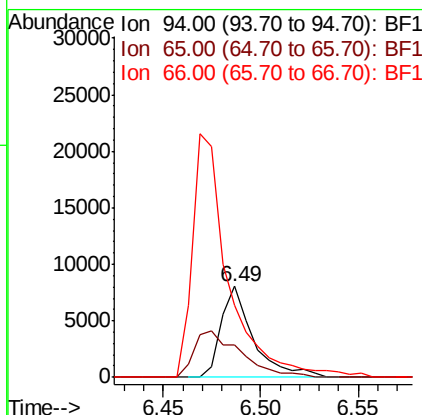
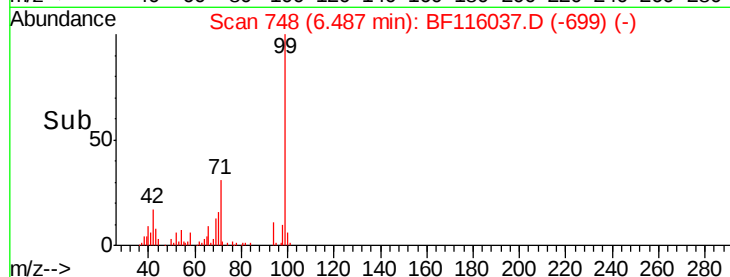
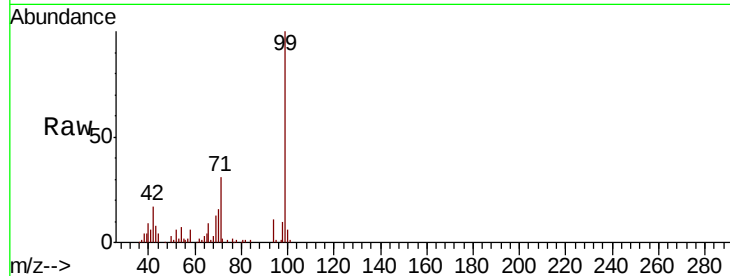
#10  
Phenol  
Concen: 0.843 ng  
RT: 6.49 min Scan# 748  
Delta R.T. -0.01 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 35.2  | 8.9   | 48.9  |
| 66      | 79.6  | 18.0  | 58.0# |

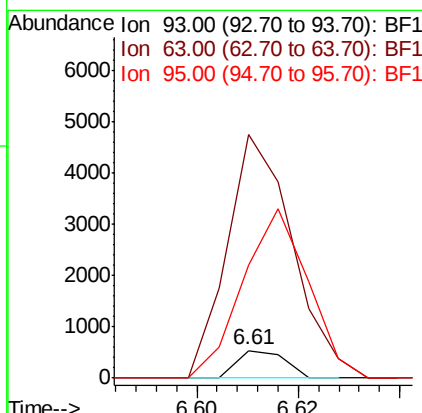
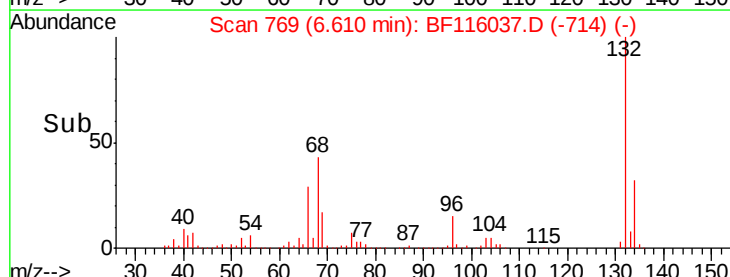
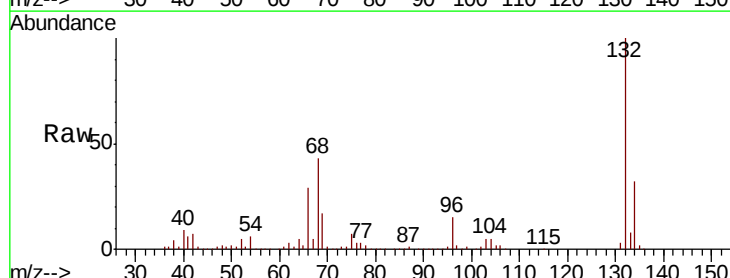
Manual Integrations  
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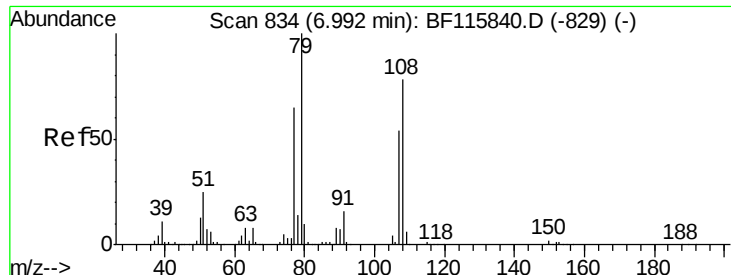
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8/7/2019 4:42:17 PM



#11  
bis(2-Chloroethyl)ether  
Concen: 0.043 ng  
RT: 6.61 min Scan# 769  
Delta R.T. 0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 891.0 | 54.9  | 94.9# |
| 95      | 411.6 | 13.3  | 53.3# |





#15

Benzyl Alcohol

Concen: 0.741 ng

RT: 7.00 min Scan# 835

Delta R.T. 0.01 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

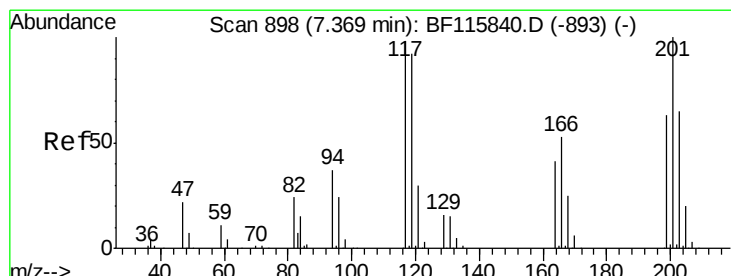
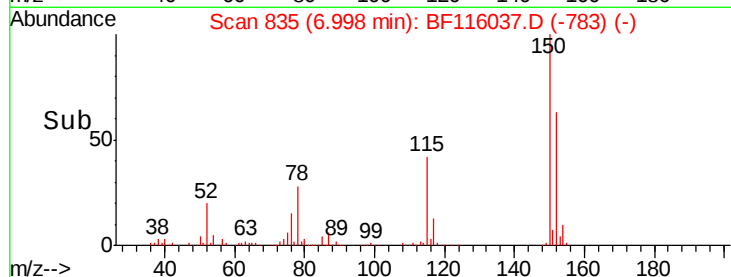
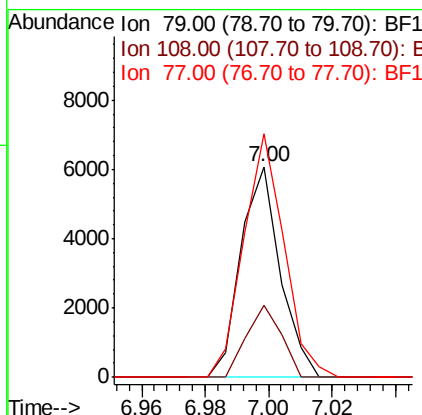
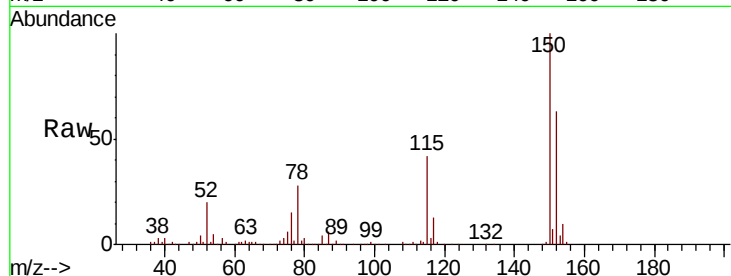
ClientSampleId :

OR-02-080219-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 79    | Resp: | 5226  |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 108       | 34.5  | 62.8  | 94.2# |
| 77        | 115.7 | 52.0  | 78.0# |

Manual Integrations  
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#18

Hexachloroethane

Concen: 0.082 ng

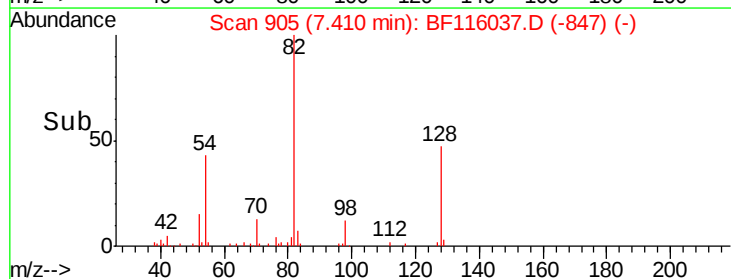
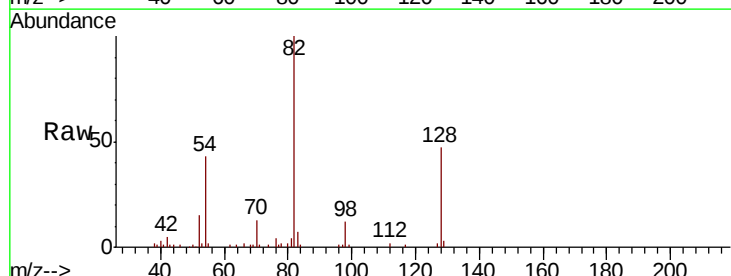
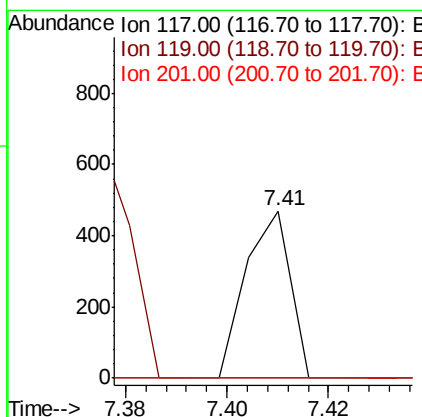
RT: 7.41 min Scan# 905

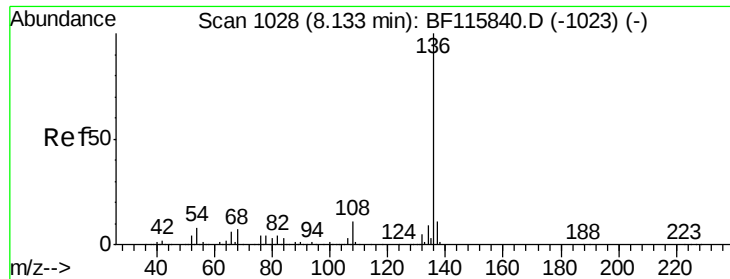
Delta R.T. 0.04 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 285    |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 0.0   | 75.8  | 113.6# |
| 201       | 0.0   | 82.0  | 123.0# |





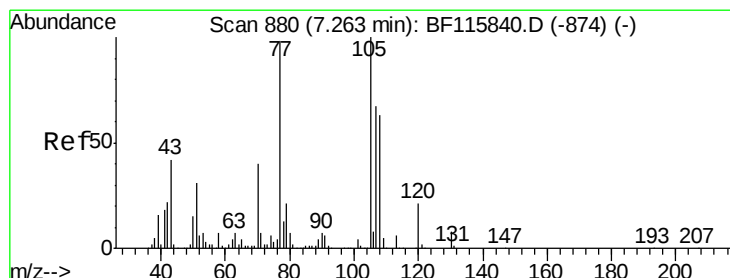
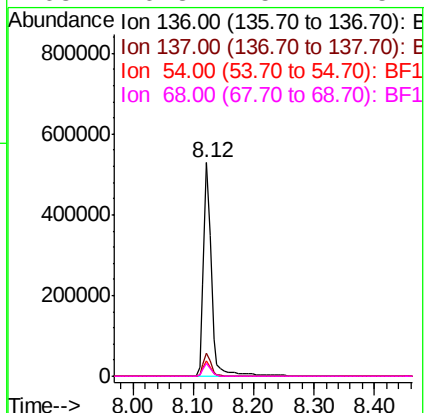
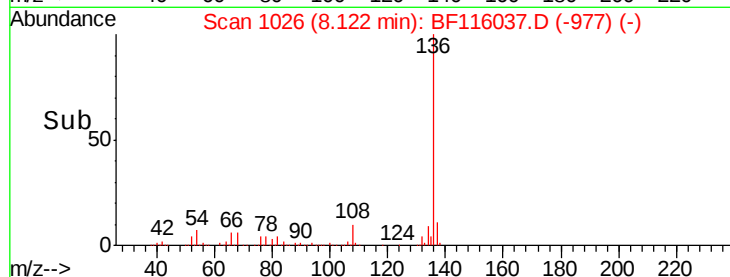
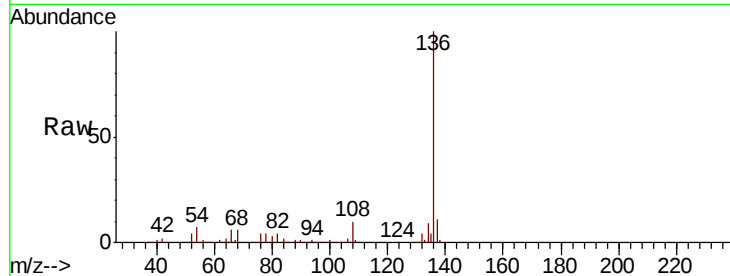
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1026  
Delta R.T. -0.01 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 488372 |       |       |
| 137     | 10.8  |        | 9.1   | 13.7  |
| 54      | 7.2   |        | 6.1   | 9.1   |
| 68      | 6.3   |        | 5.4   | 8.2   |

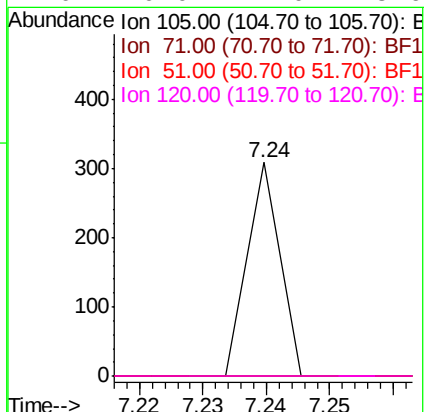
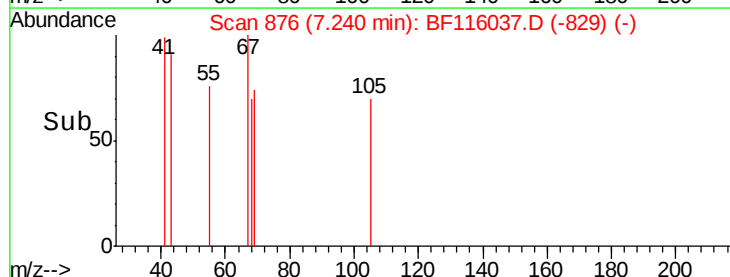
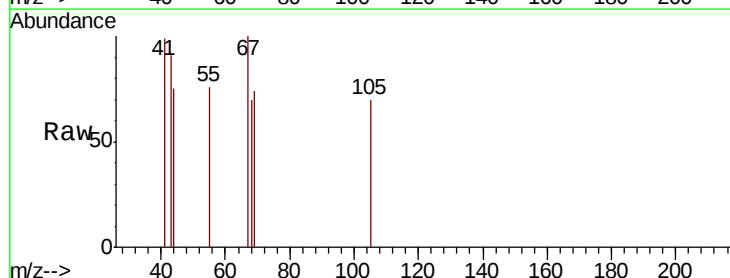
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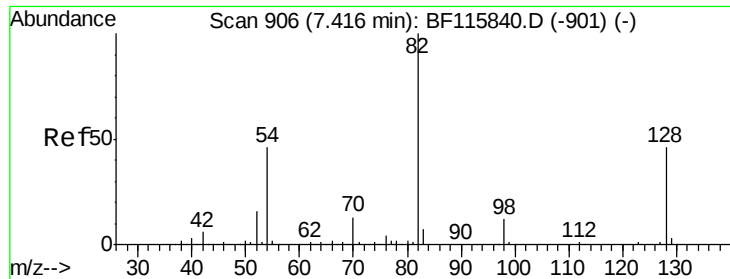
mohammad  
8/7/2019 4:42:17 PM



#22  
Acetophenone  
Concen: 0.010 ng  
RT: 7.24 min Scan# 876  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   | 109  |       |       |
| 71      | 0.0   |      | 5.4   | 8.0#  |
| 51      | 0.0   |      | 24.6  | 36.8# |
| 120     | 0.0   |      | 17.0  | 25.6# |





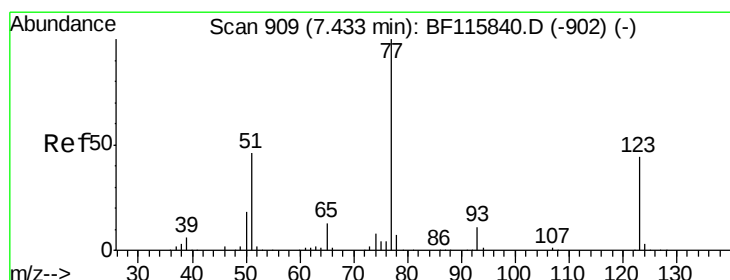
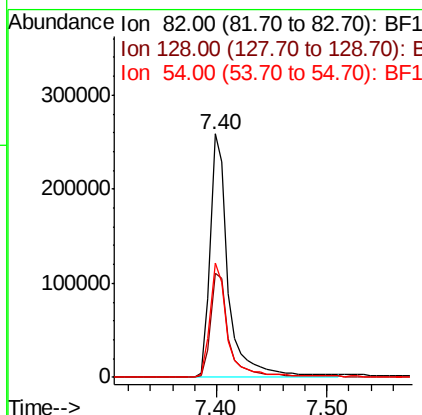
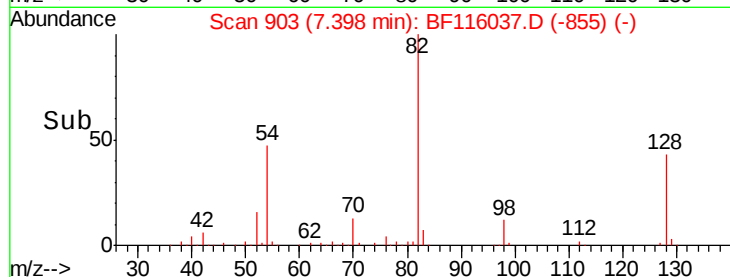
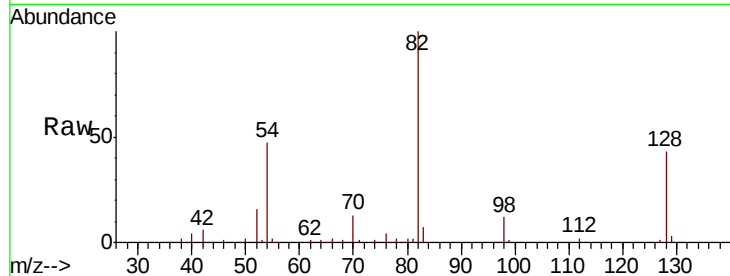
#23  
 Nitrobenzene-d5  
 Concen: 34.440 ng  
 RT: 7.40 min Scan# 903  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampled :  
 OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.6  | 36.6  | 55.0  |
| 54      | 46.7  | 36.6  | 55.0  |

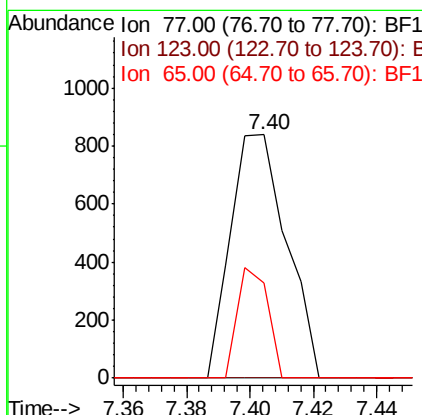
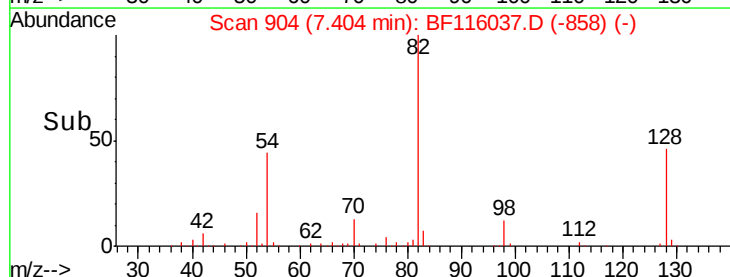
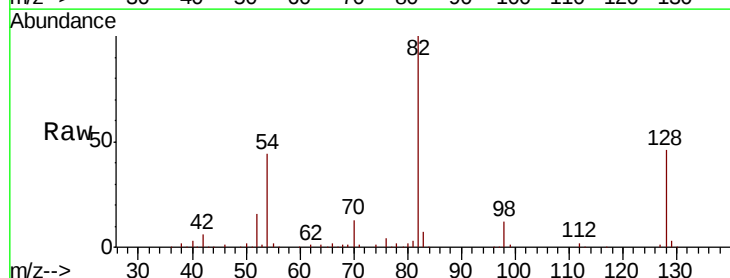
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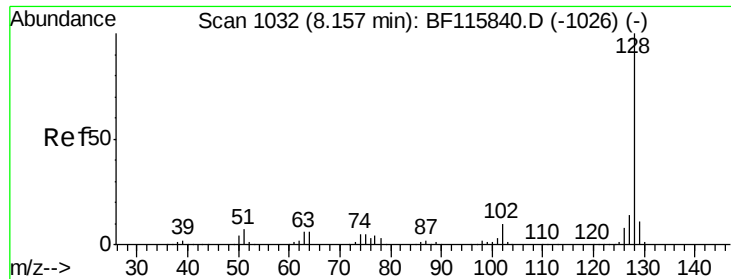
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#24  
 Nitrobenzene  
 Concen: 0.112 ng  
 RT: 7.40 min Scan# 904  
 Delta R.T. -0.03 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 0.0   | 35.5  | 53.3# |
| 65      | 39.0  | 10.6  | 15.8# |





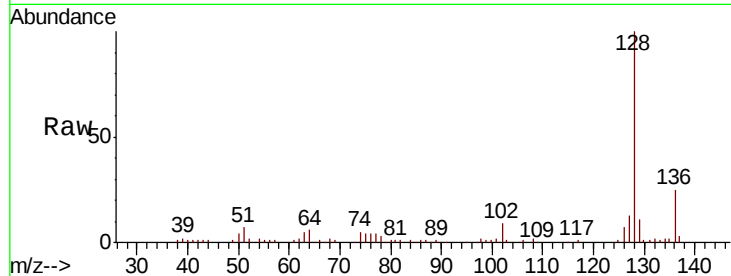
#31  
Naphthalene  
Concen: 2.974 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.3  | 9.2   | 13.8  |
| 127     | 12.7  | 11.0  | 16.4  |

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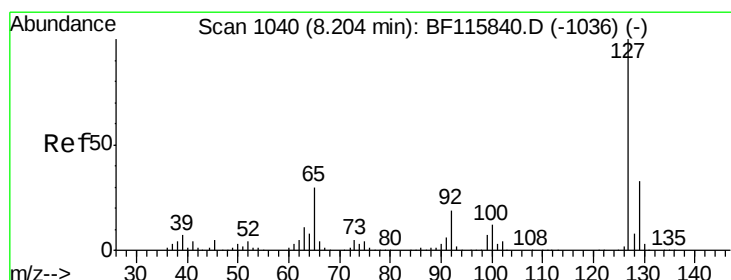
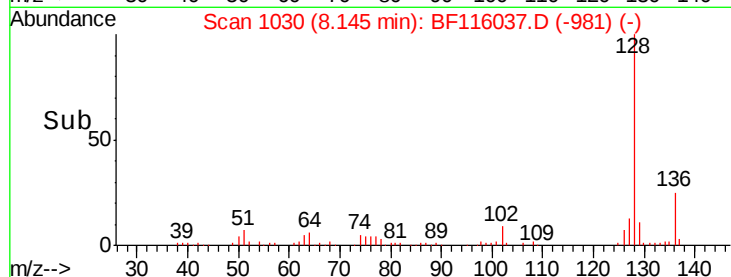
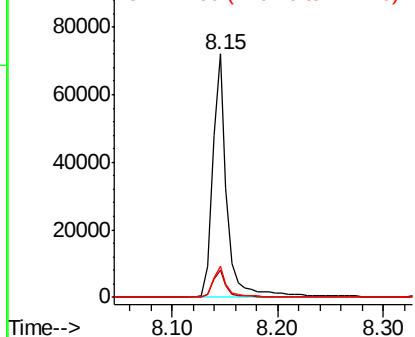


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33  
4-Chloroaniline  
Concen: 0.800 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.06 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 88.7  | 26.0  | 39.0# |
| 65      | 3.5   | 23.9  | 35.9# |
| 92      | 0.0   | 14.9  | 22.3# |

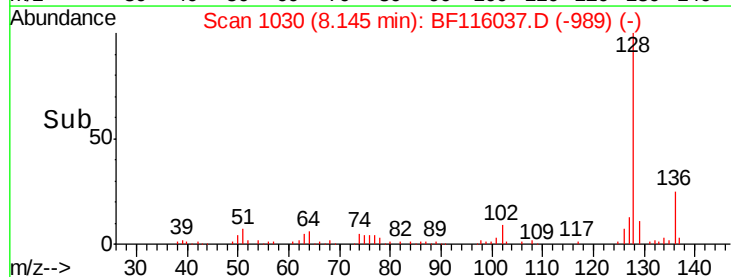
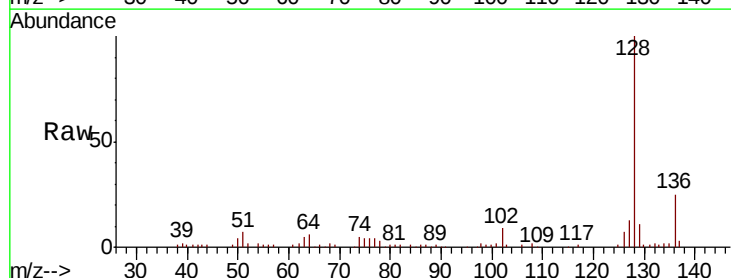
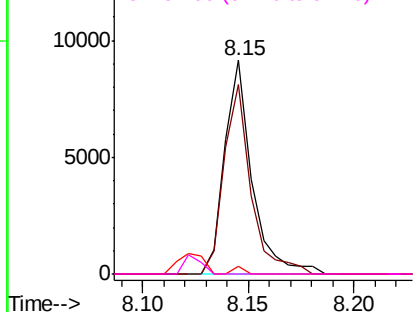
Abundance

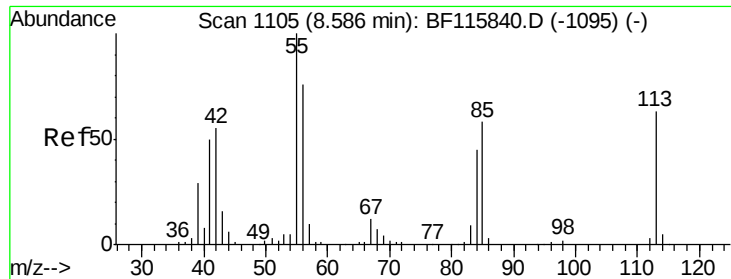
Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1





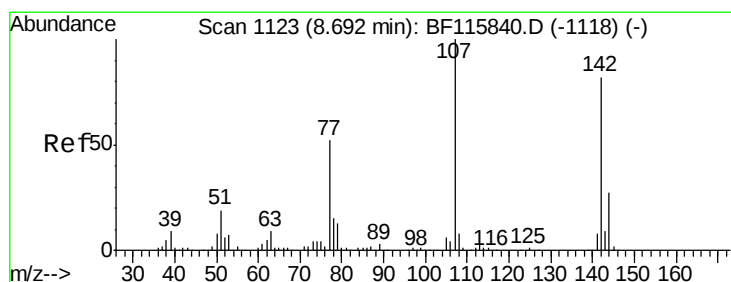
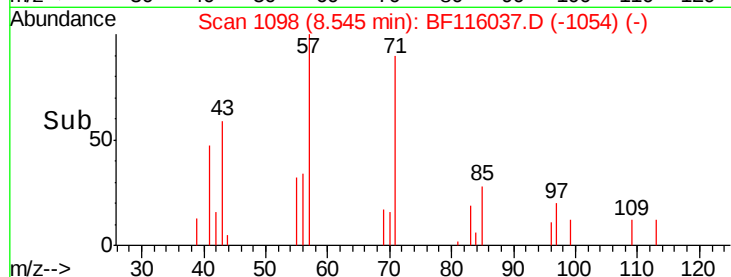
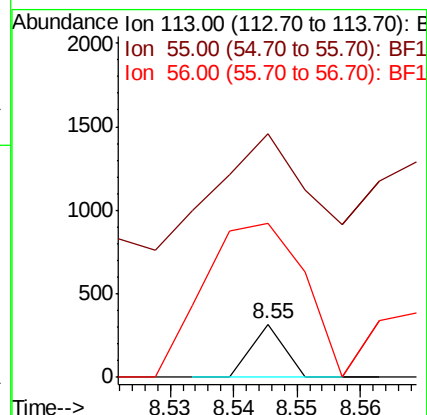
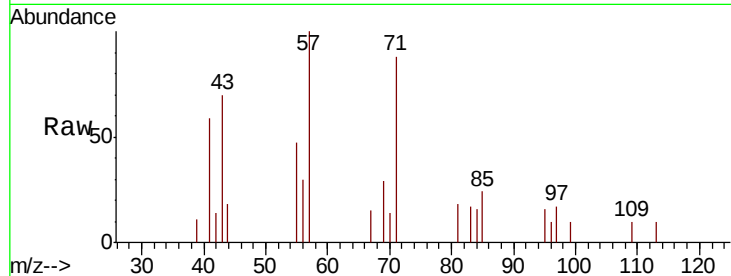
#35  
Caprolactam  
Concen: 0.051 ng  
RT: 8.55 min Scan# 1098  
Delta R.T. -0.04 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 55      | 459.6 | 138.1 | 178.1# |
| 56      | 290.5 | 100.6 | 140.6# |

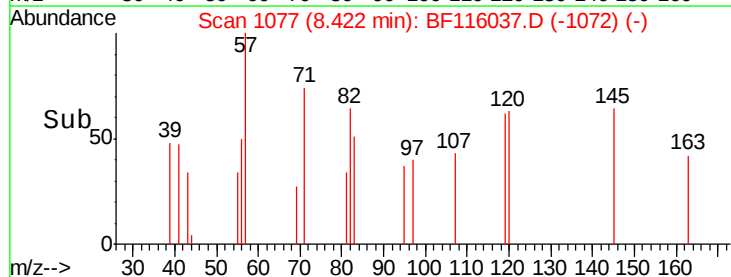
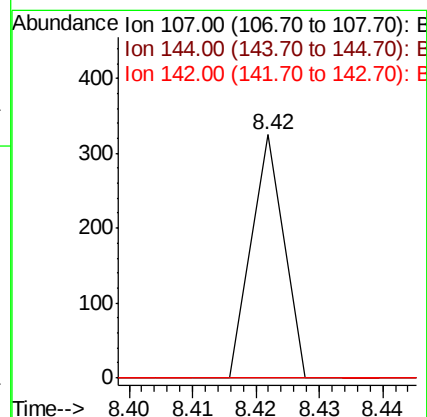
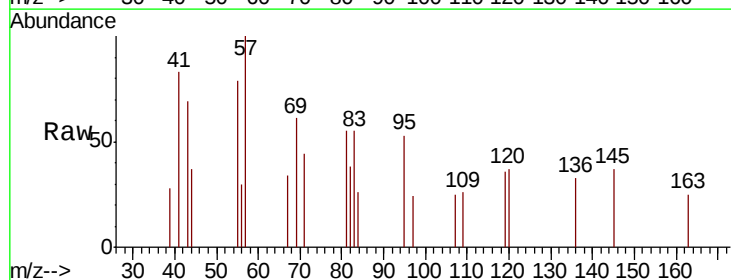
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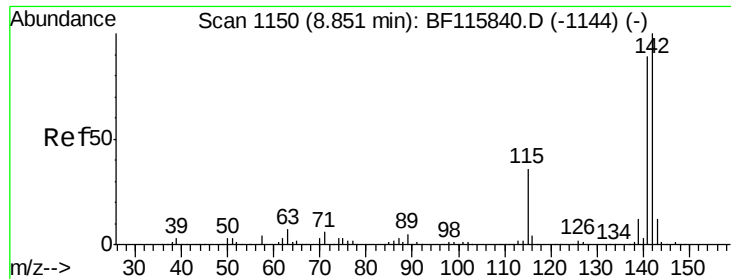
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#36  
4-Chloro-3-methylphenol  
Concen: 0.016 ng  
RT: 8.42 min Scan# 1077  
Delta R.T. -0.27 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 0.0   | 21.4  | 32.0# |
| 142     | 0.0   | 65.5  | 98.3# |





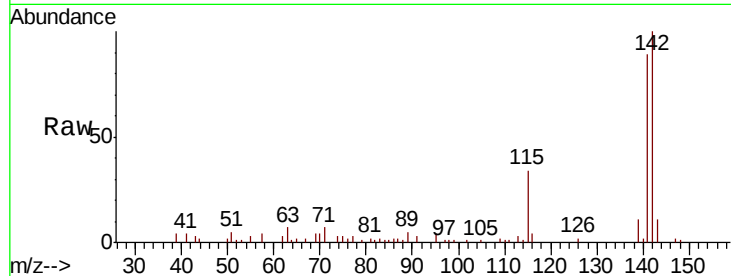
#37  
2-Methylnaphthalene  
Concen: 2.107 ng  
RT: 8.84 min Scan# 1148  
Delta R.T. -0.01 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.0  | 71.4  | 107.2 |
| 115     | 34.5  | 28.9  | 43.3  |

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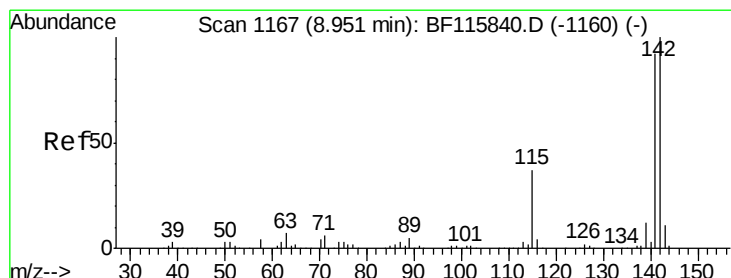
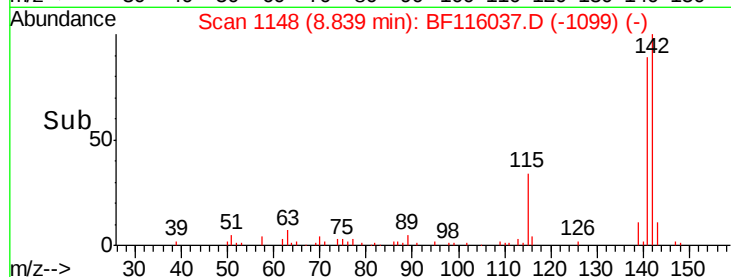
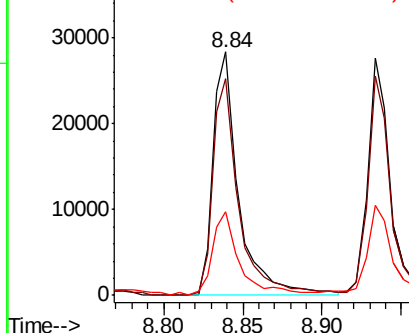


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38  
1-Methylnaphthalene  
Concen: 2.011 ng  
RT: 8.93 min Scan# 1164  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

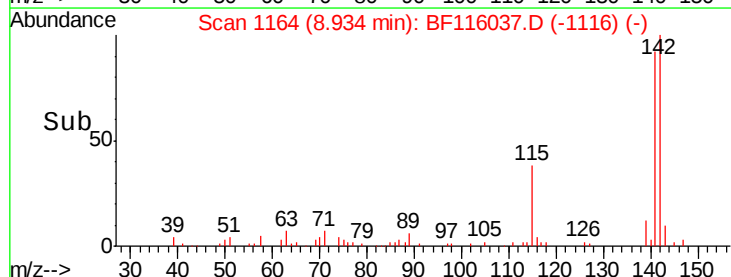
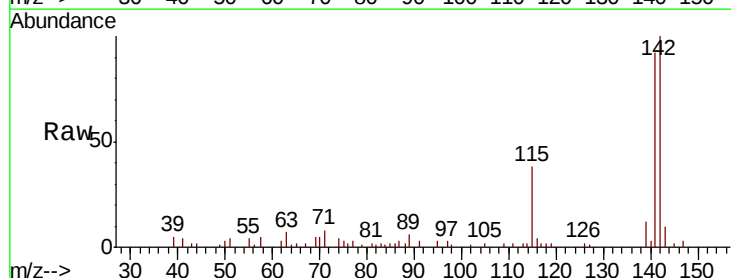
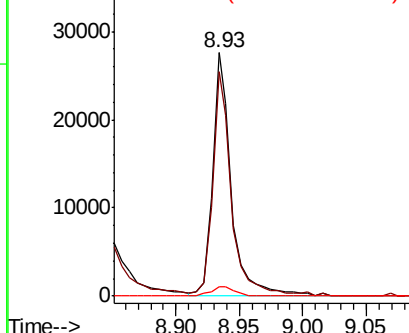
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.4  | 73.8  | 110.6 |
| 116     | 4.1   | 3.1   | 4.7   |

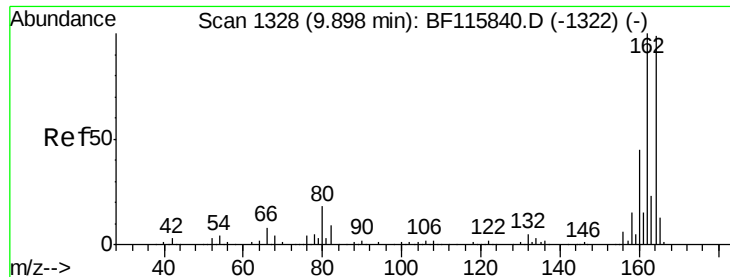
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





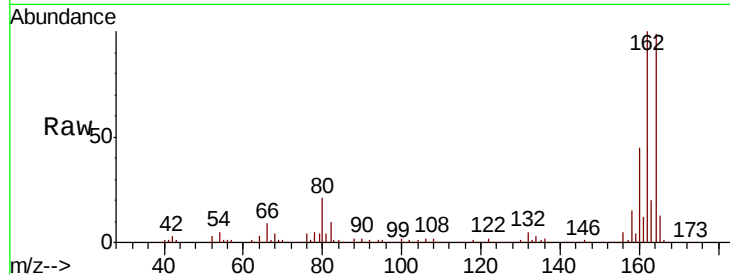
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

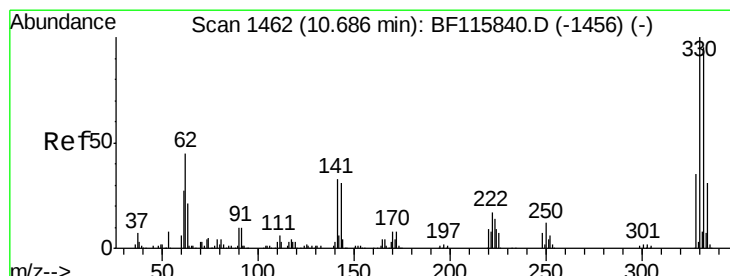
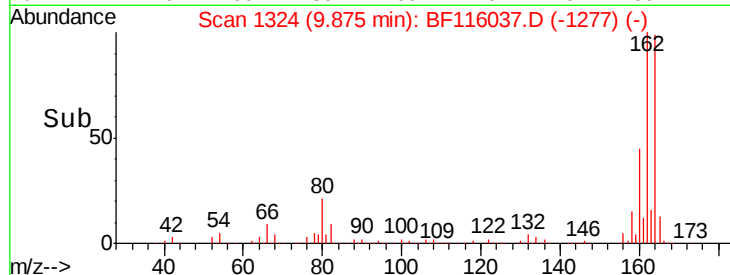
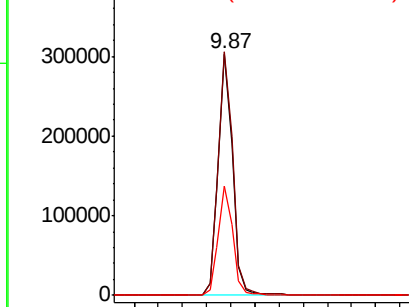
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.0 | 80.8 | 121.2 |       |
| 160     | 45.2  | 36.2 | 54.4  |       |

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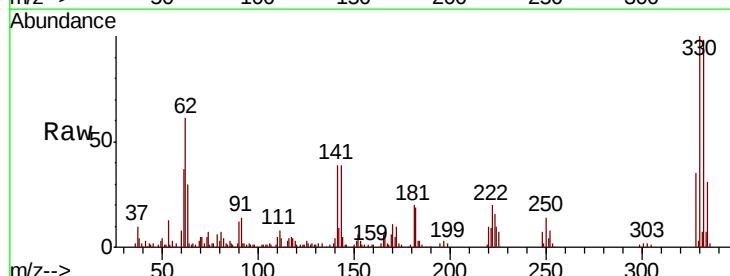


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

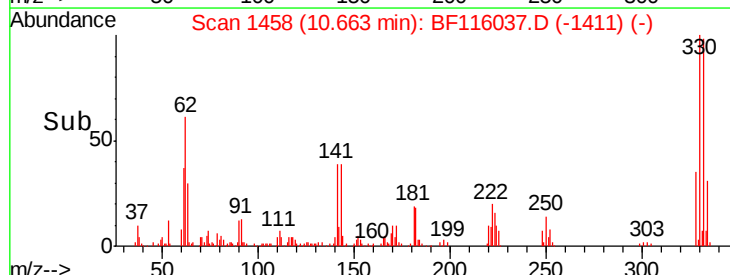
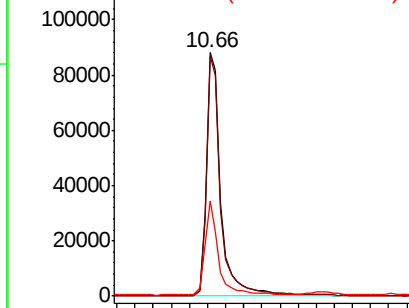


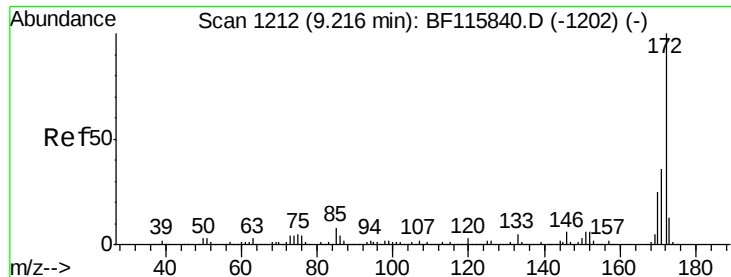
#42  
 2,4,6-Tribromophenol  
 Concen: 41.588 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.8  | 77.7 | 116.5 |       |
| 141     | 35.4  | 28.1 | 42.1  |       |



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E





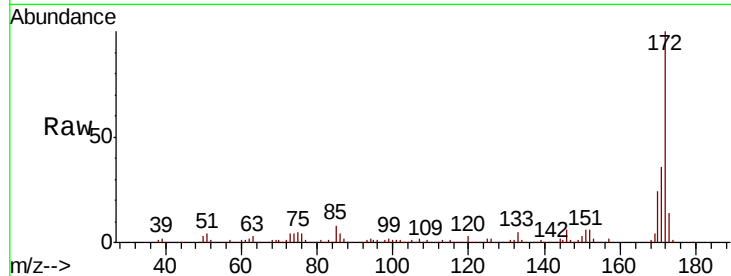
#45  
2-Fluorobiphenyl  
Concen: 41.824 ng  
RT: 9.19 min Scan# 1208  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

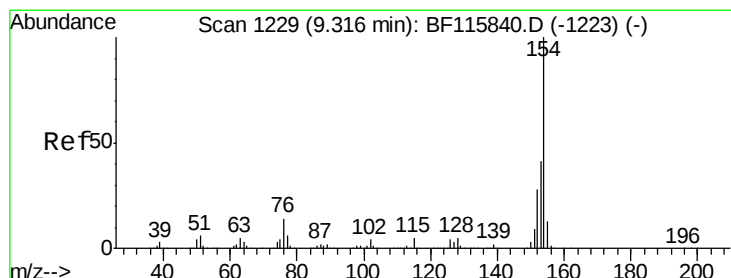
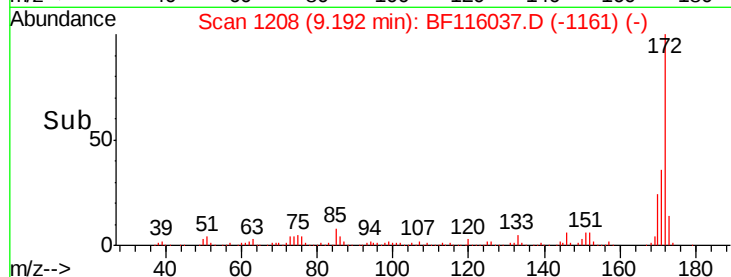
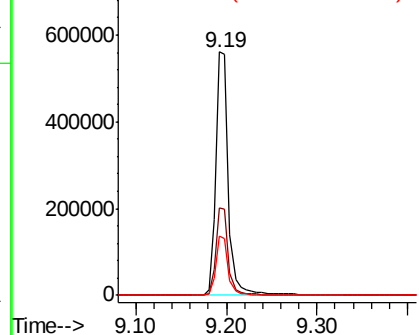
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 554985 |       |       |
| 171     | 36.2  |        | 29.1  | 43.7  |
| 170     | 24.2  |        | 20.1  | 30.1  |

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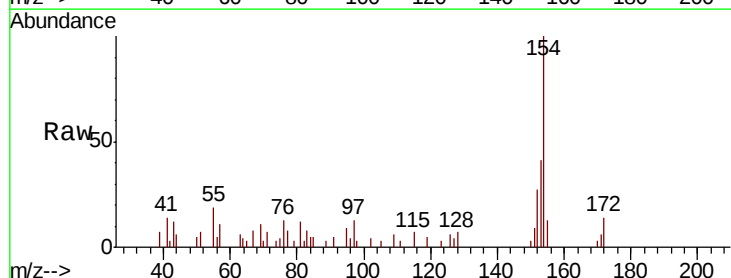


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

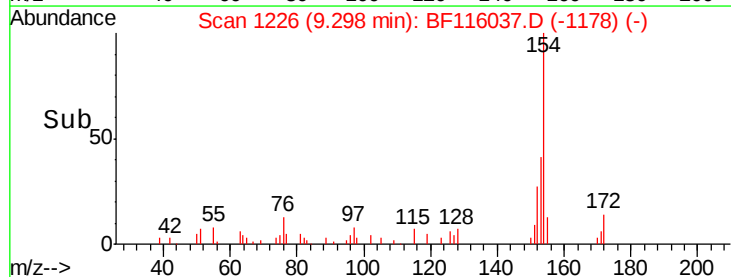
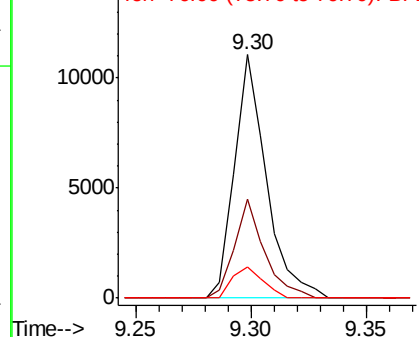


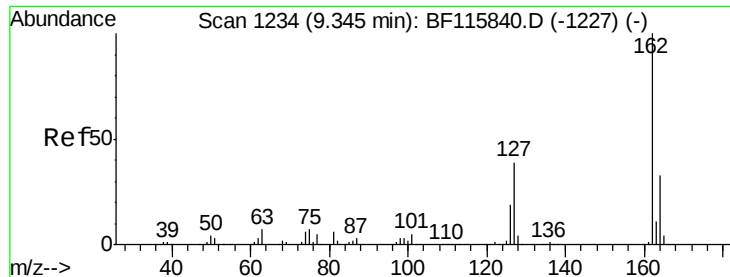
#46  
1,1'-Biphenyl  
Concen: 0.606 ng  
RT: 9.30 min Scan# 1226  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 10638 |       |       |
| 153     | 40.8  |       | 20.9  | 60.9  |
| 76      | 12.8  |       | 0.0   | 34.3  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1





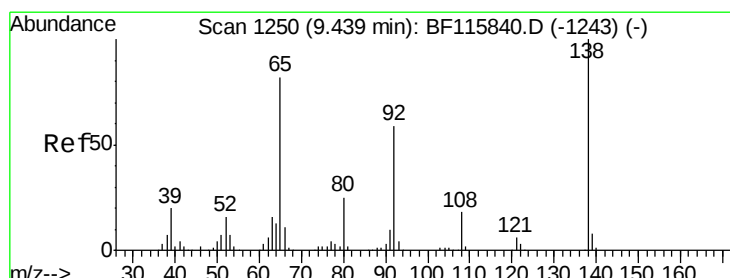
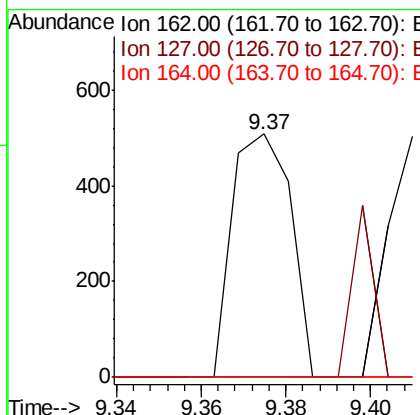
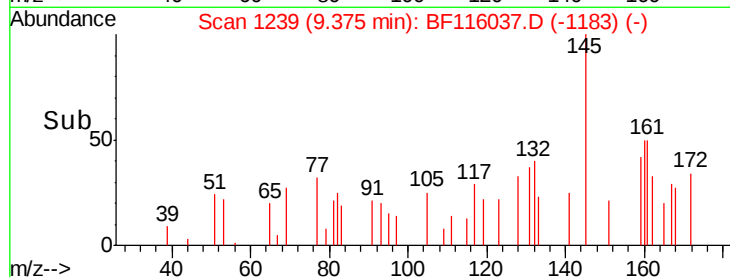
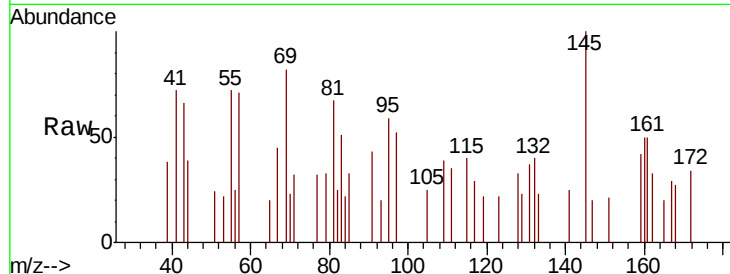
#47  
 2-Chloronaphthalene  
 Concen: 0.033 ng  
 RT: 9.37 min Scan# 1239  
 Delta R.T. 0.03 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 0.0   | 31.3  | 46.9# |
| 164     | 0.0   | 26.6  | 40.0# |

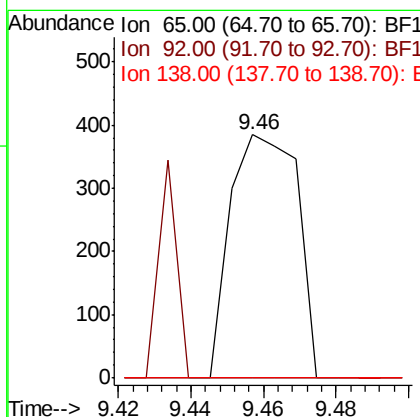
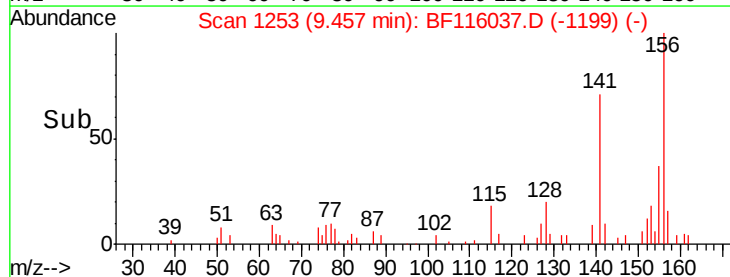
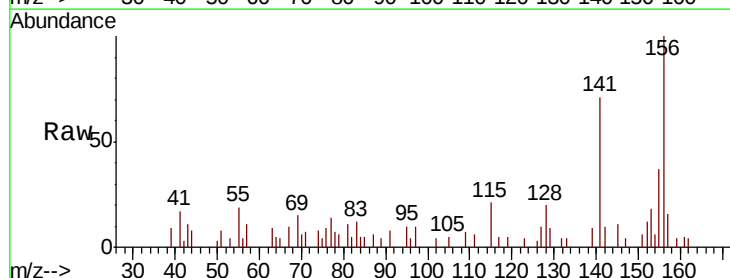
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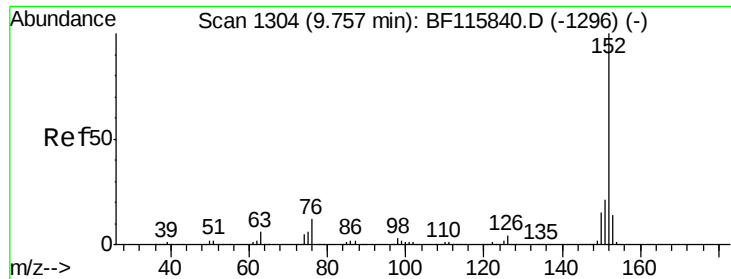
mohammad  
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#48  
 2-Nitroaniline  
 Concen: 0.102 ng  
 RT: 9.46 min Scan# 1253  
 Delta R.T. 0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 0.0   | 57.1  | 85.7#  |
| 138     | 0.0   | 97.1  | 145.7# |





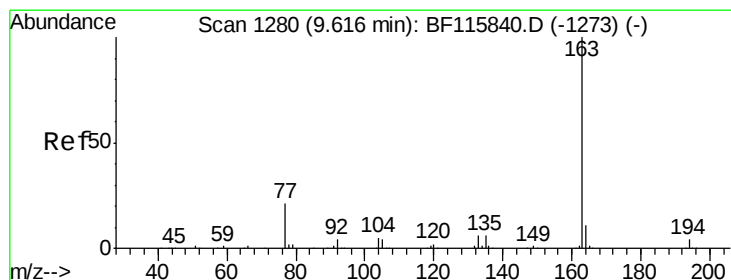
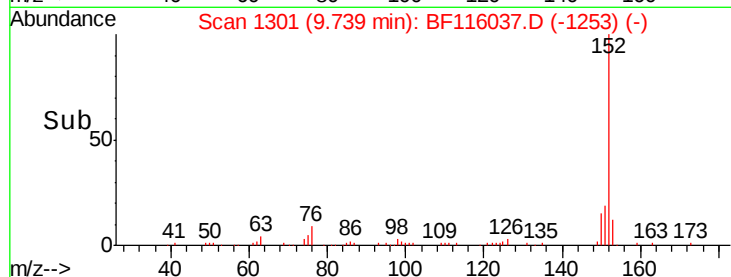
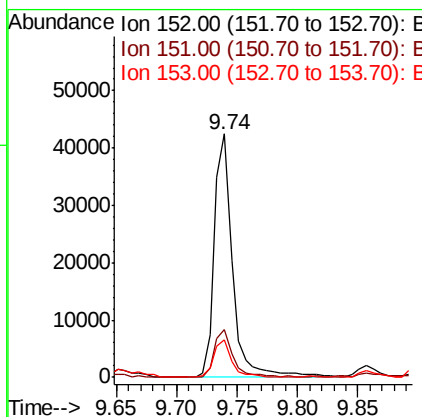
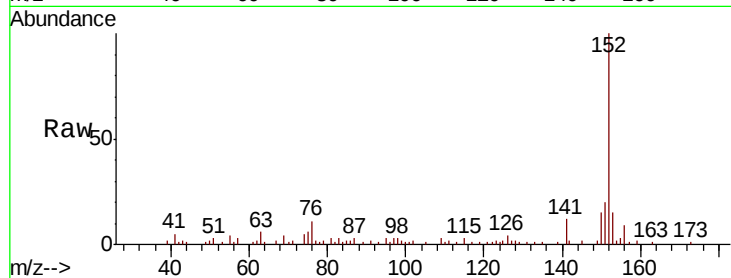
#49  
 Acenaphthylene  
 Concen: 2.075 ng  
 RT: 9.74 min Scan# 1301  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 44205 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.8  | 16.8  | 25.2  |
| 153       | 15.4  | 11.6  | 17.4  |

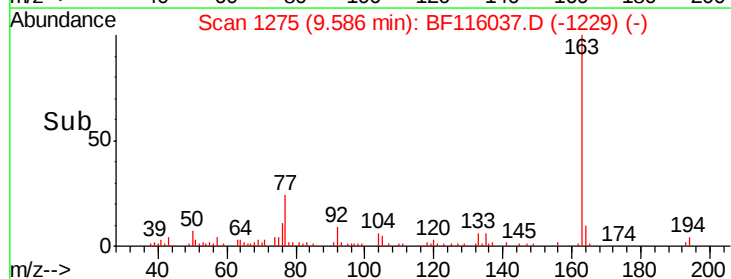
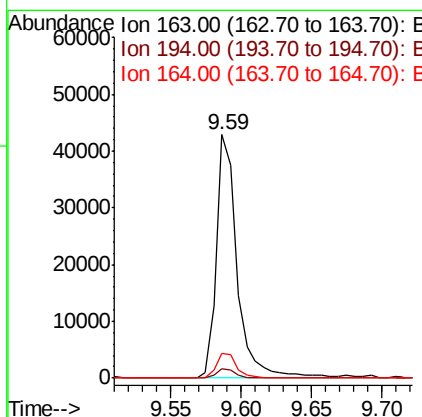
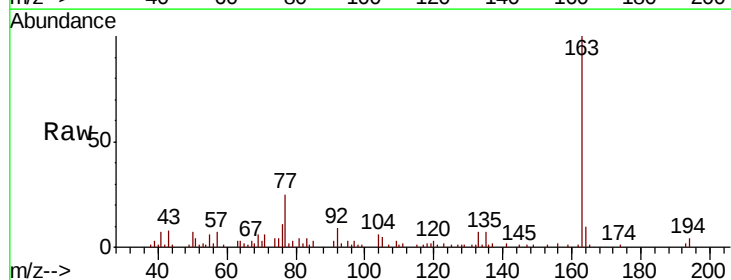
Manual Integrations  
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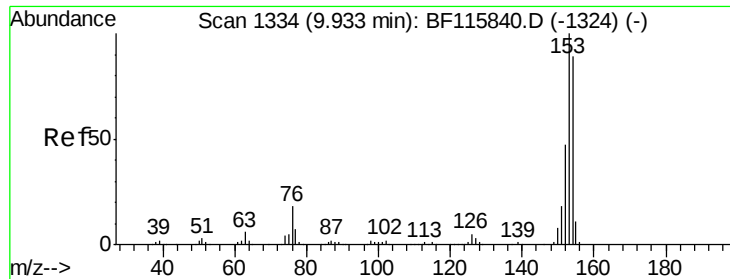
mohammad  
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#50  
 Dimethylphthalate  
 Concen: 2.606 ng  
 RT: 9.59 min Scan# 1275  
 Delta R.T. -0.03 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 44103 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.9   | 3.0   | 4.6   |
| 164       | 10.3  | 8.4   | 12.6  |





#52

Acenaphthene

Concen: 3.855 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

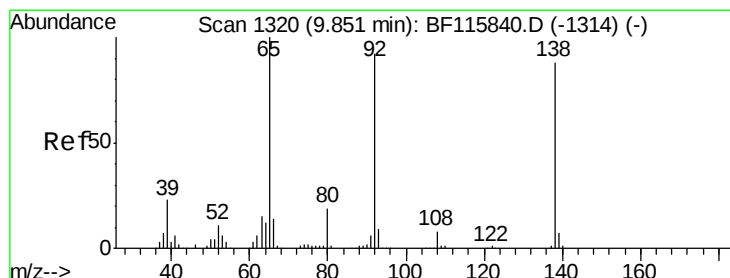
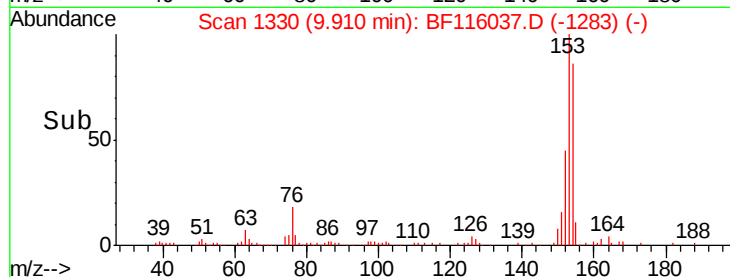
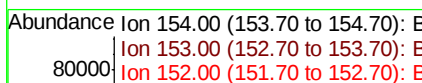
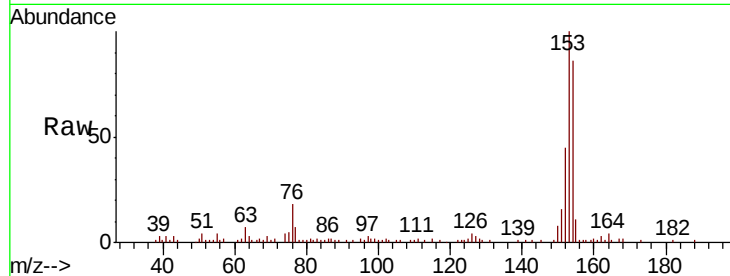
ClientSampleId :

OR-02-080219-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 50394 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 117.0 | 90.1  | 135.1 |
| 152       | 52.7  | 42.6  | 63.8  |

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#53

3-Nitroaniline

Concen: 0.161 ng

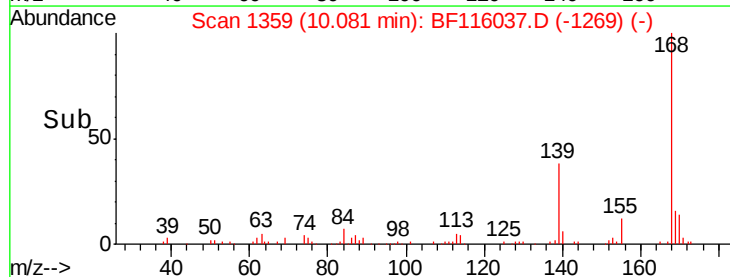
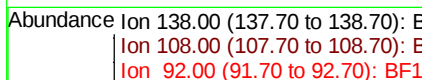
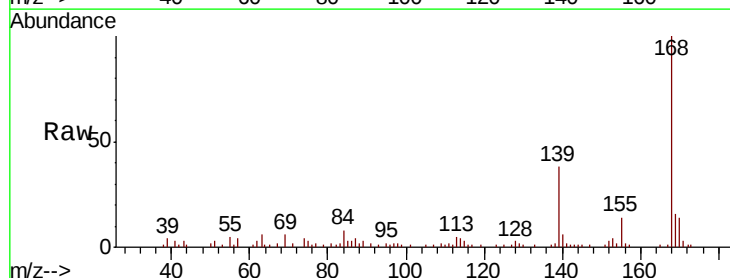
RT: 10.08 min Scan# 1359

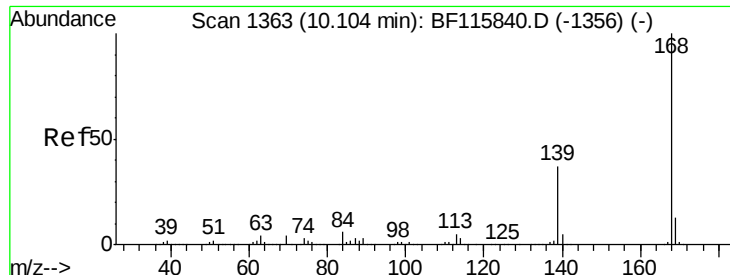
Delta R.T. 0.23 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 731    |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 0.0   | 7.4   | 11.2#  |
| 92        | 0.0   | 83.9  | 125.9# |





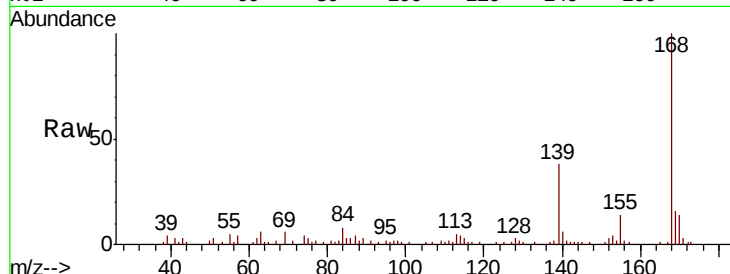
#55  
Dibenzofuran  
Concen: 2.861 ng  
RT: 10.08 min Scan# 1359  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 38.4  | 30.2  | 45.2  |
| 169     | 16.2  | 10.8  | 16.2  |

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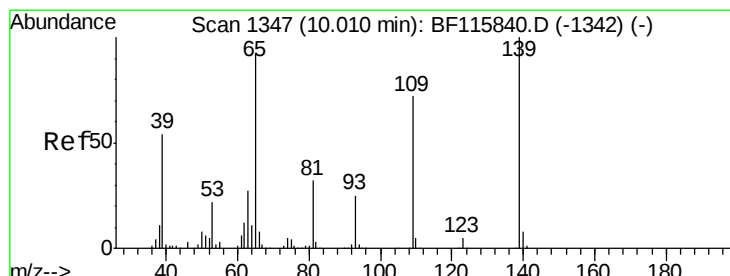
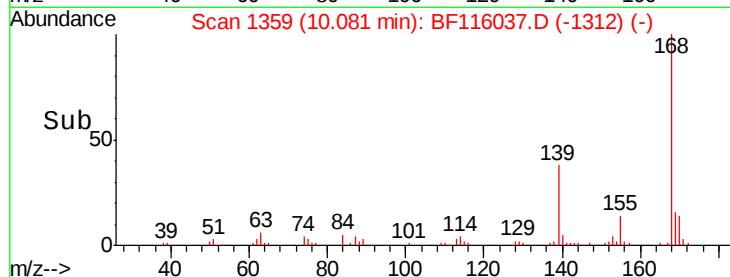
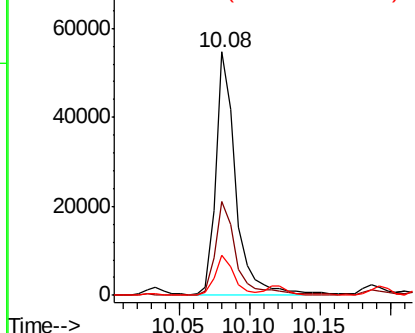


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56  
4-Nitrophenol  
Concen: 0.247 ng  
RT: 9.98 min Scan# 1342  
Delta R.T. -0.03 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

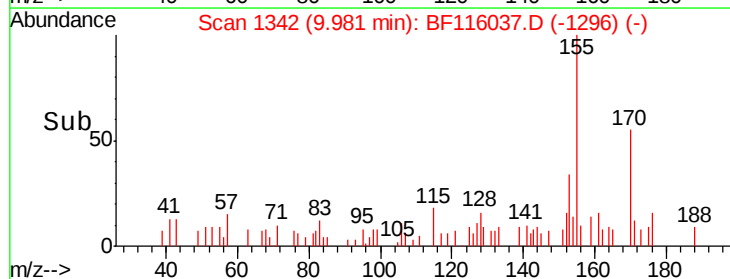
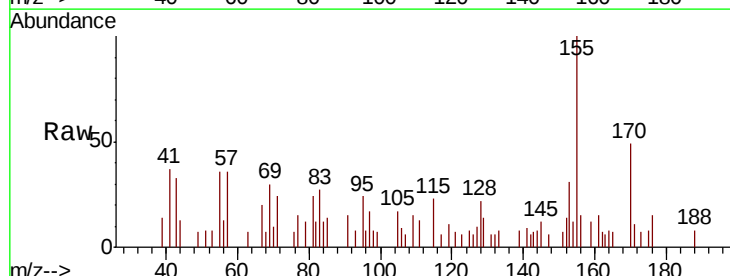
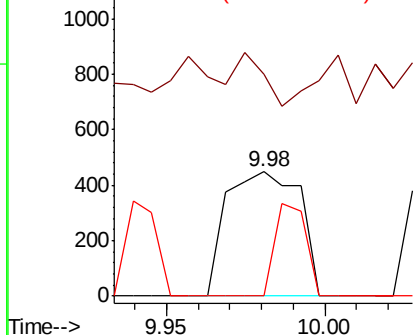
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 178.8 | 52.0  | 92.0  |
| 65      | 0.0   | 72.6  | 112.6 |

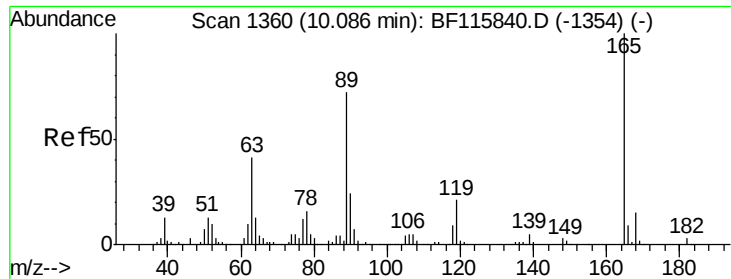
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#57

2,4-Dinitrotoluene

Concen: 0.308 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.05 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

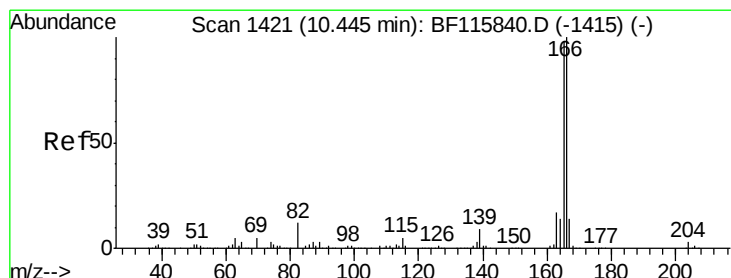
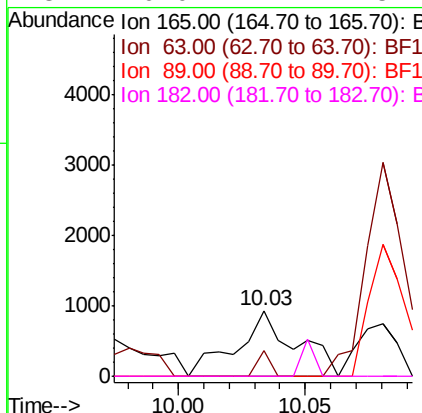
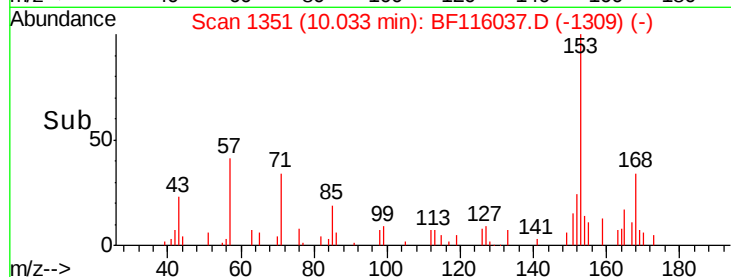
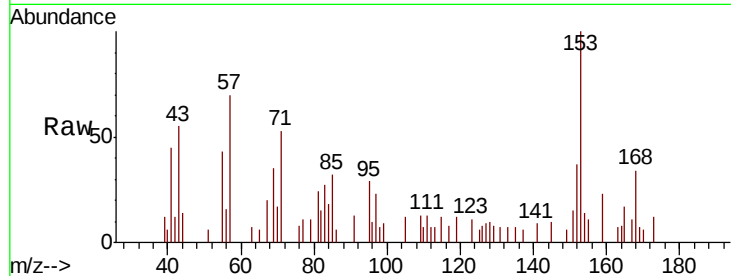
ClientSampleId :

OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 39.1  | 33.2  | 49.8  |
| 89      | 0.0   | 57.3  | 85.9# |
| 182     | 0.0   | 2.1   | 3.1#  |

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#58

Fluorene

Concen: 6.044 ng

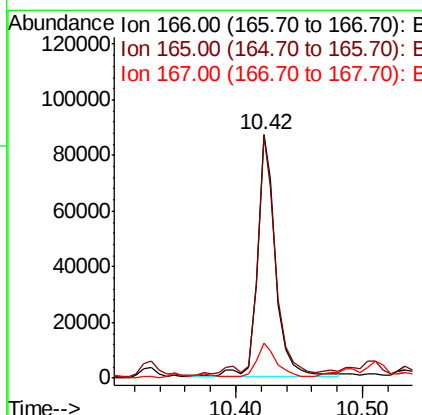
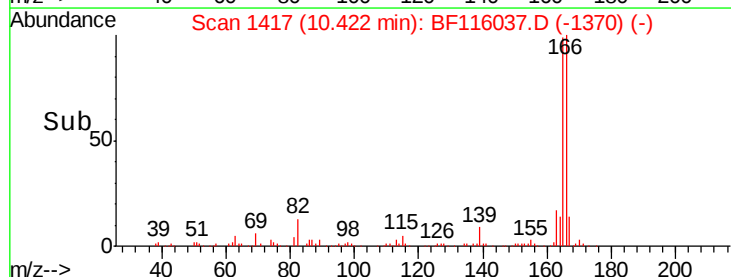
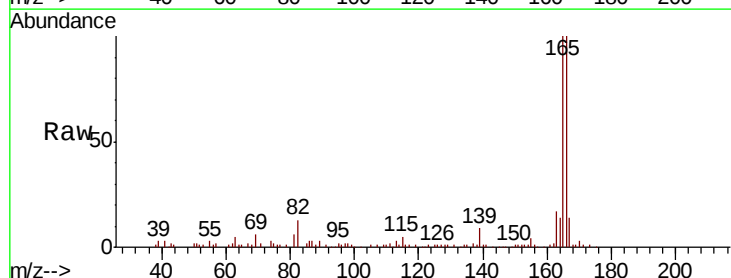
RT: 10.42 min Scan# 1417

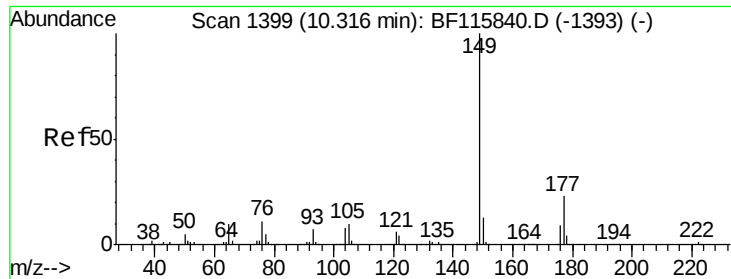
Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.7  | 78.6  | 118.0 |
| 167     | 14.1  | 10.9  | 16.3  |





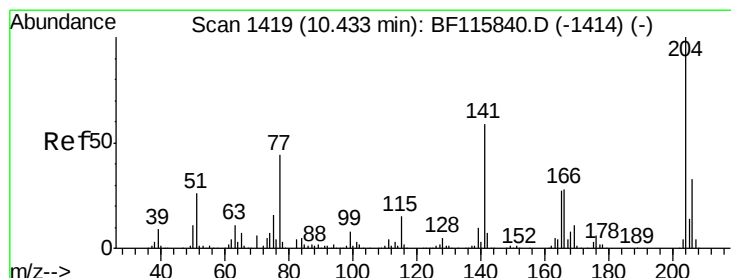
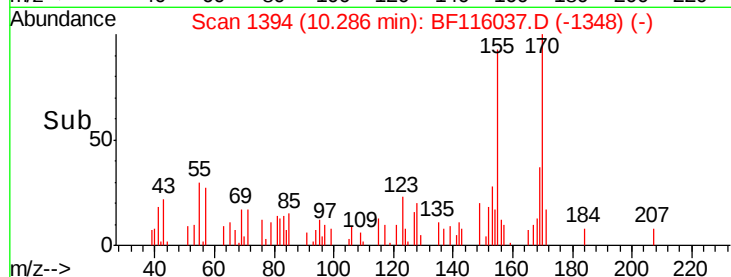
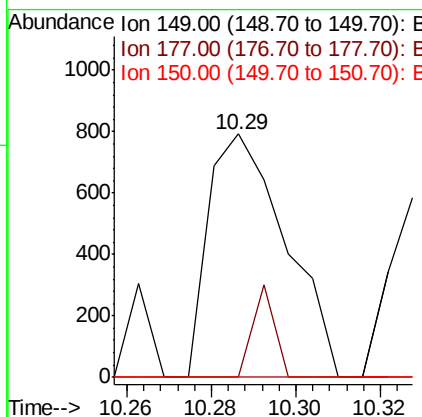
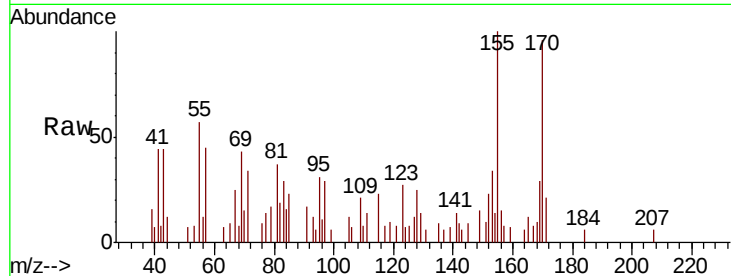
#60  
Diethylphthalate  
Concen: 0.064 ng  
RT: 10.29 min Scan# 1394  
Delta R.T. -0.03 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 0.0   | 18.4  | 27.6# |
| 150     | 0.0   | 10.1  | 15.1# |

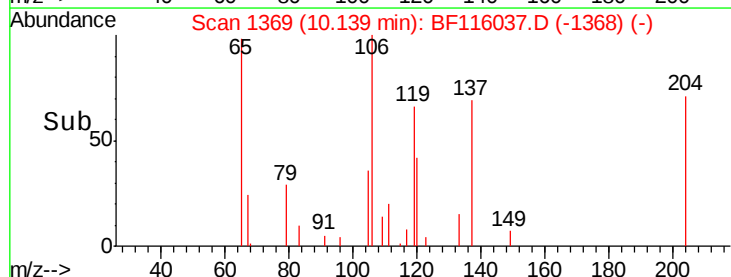
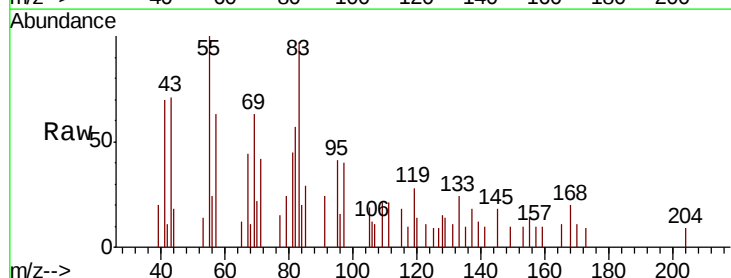
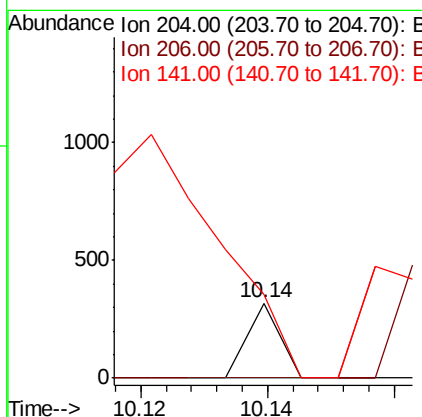
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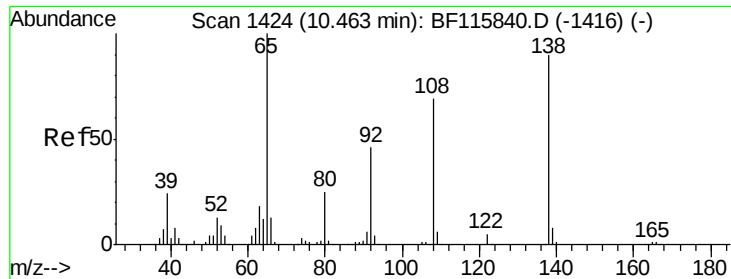
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#61  
4-Chlorophenyl-phenylether  
Concen: 0.015 ng  
RT: 10.14 min Scan# 1369  
Delta R.T. -0.29 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 0.0   | 26.4  | 39.6# |
| 141     | 110.7 | 47.0  | 70.4# |





#62

4-Nitroaniline

Concen: 0.225 ng

RT: 10.42 min Scan# 1417

Delta R.T. -0.04 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

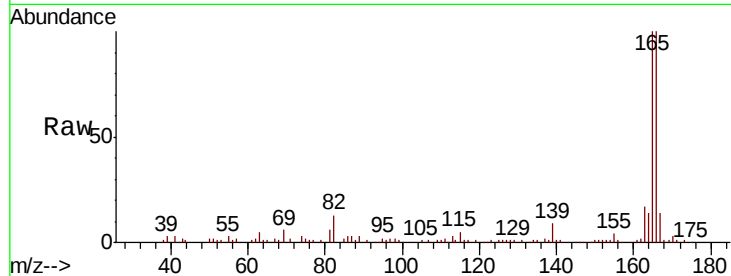
ClientSampleId :

OR-02-080219-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 138   | Resp: | 1058  |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 92        | 0.0   | 31.0  | 71.0# |
| 108       | 0.0   | 56.7  | 96.7# |

Manual Integrations  
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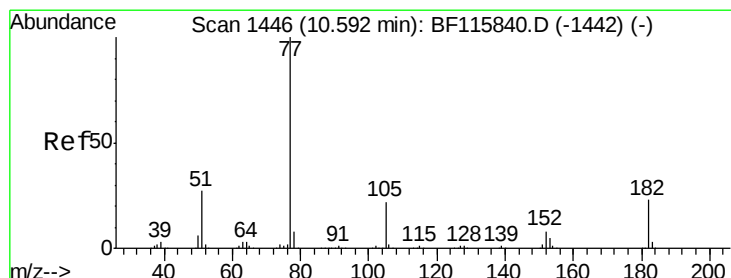
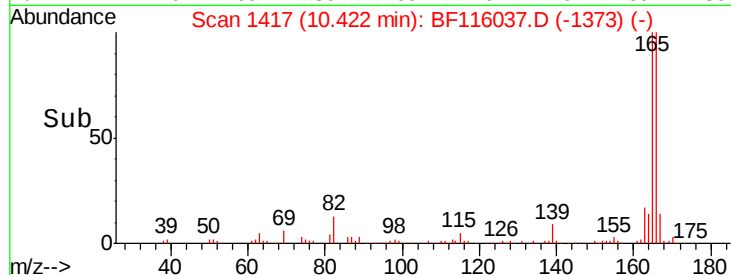
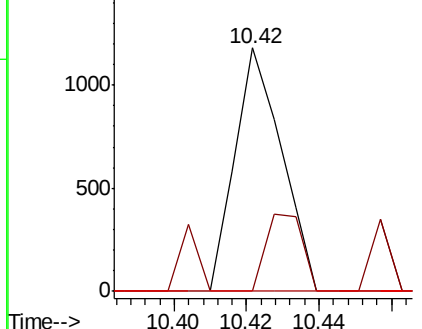
mohammad  
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Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E



#63

Azobenzene

Concen: 0.065 ng

RT: 10.57 min Scan# 1443

Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

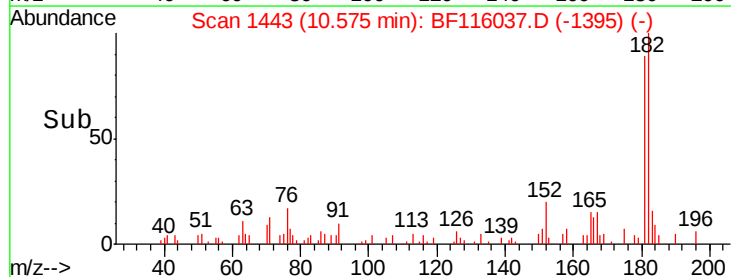
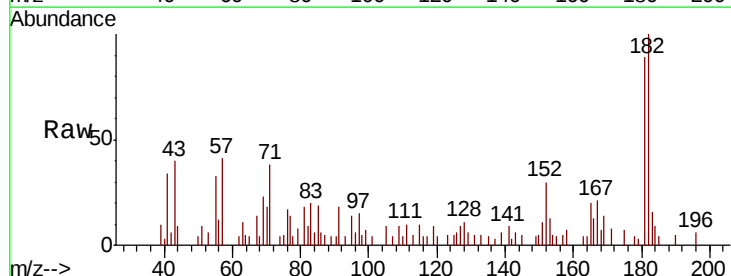
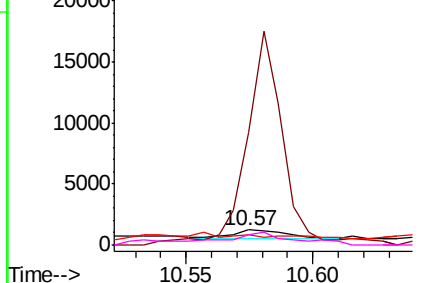
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 1059  |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 182       | 736.5 | 2.6   | 42.6# |
| 105       | 63.7  | 1.6   | 41.6# |
| 51        | 64.8  | 7.4   | 47.4# |

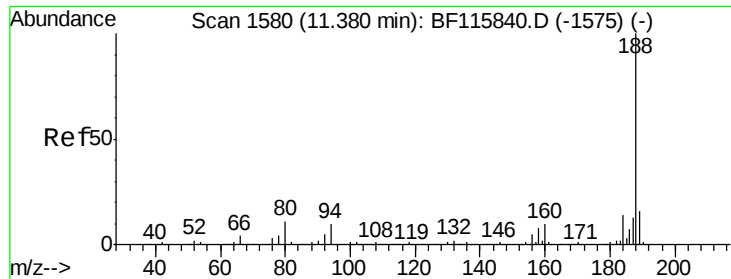
Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

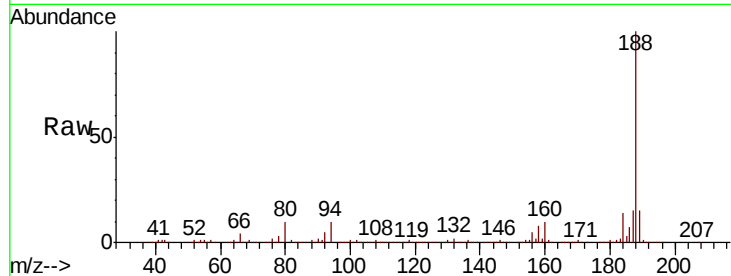
ClientSampleId :

OR-02-080219-B

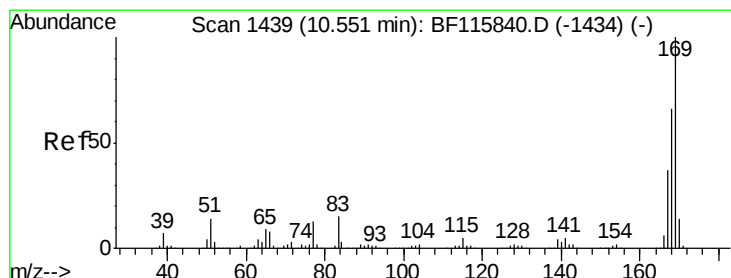
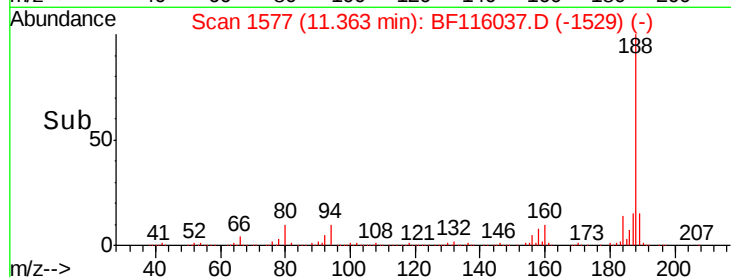
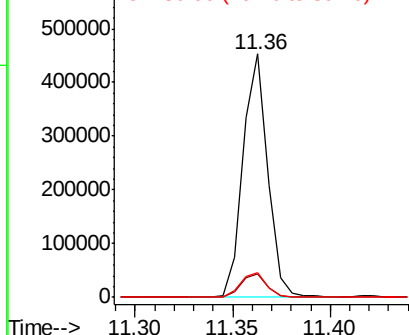
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 397626 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.7   | 8.0   | 12.0   |
| 80        | 10.3  | 8.6   | 12.8   |

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Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1



#66

n-Nitrosodiphenylamine

Concen: 0.258 ng

RT: 10.27 min Scan# 1392

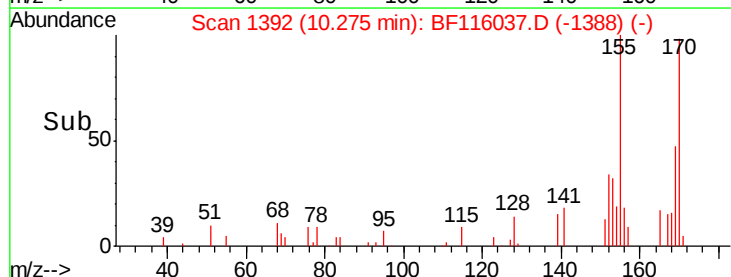
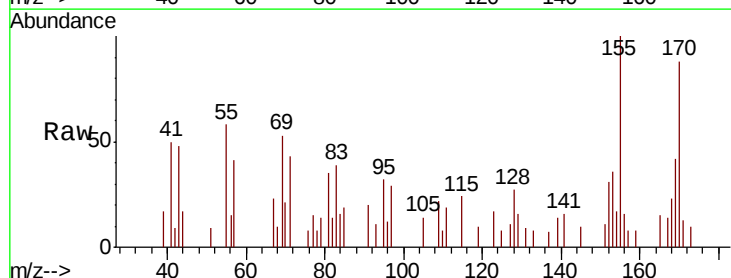
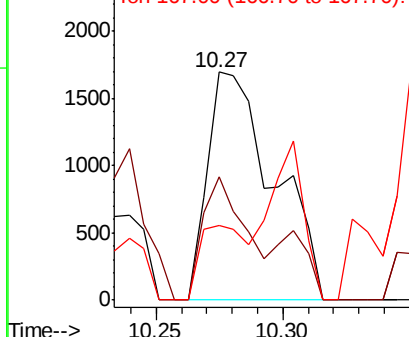
Delta R.T. -0.28 min

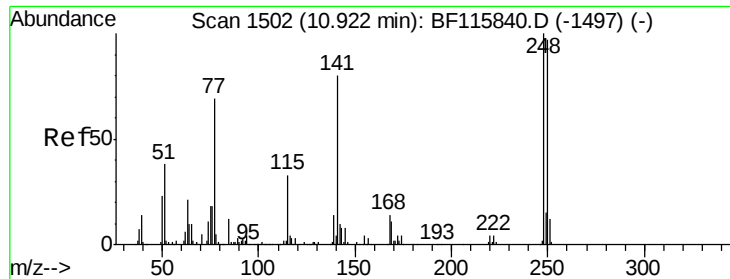
Lab File: BF116037.D

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 169   | Resp: | 3086 |
| Ion Ratio | Lower | Upper |      |
| 169       | 100   |       |      |
| 168       | 54.2  | 53.0  | 79.6 |
| 167       | 32.8  | 29.9  | 44.9 |

Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E





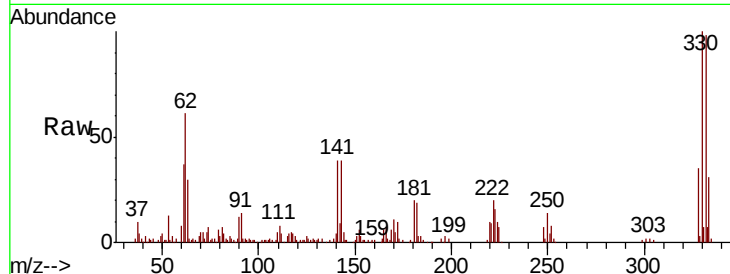
#67  
 4-Bromophenyl-phenylether  
 Concen: 1.370 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.26 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

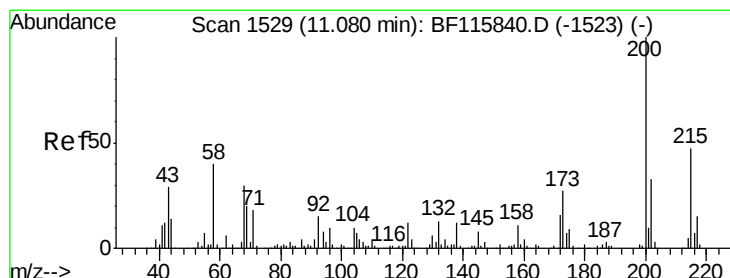
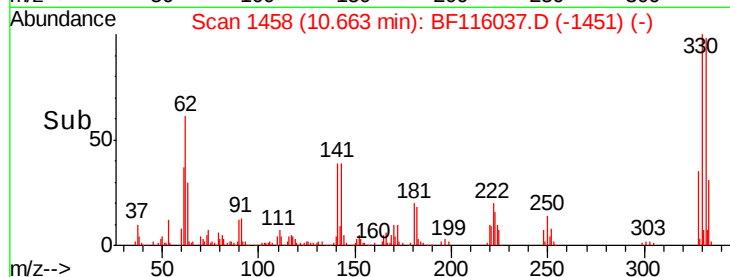
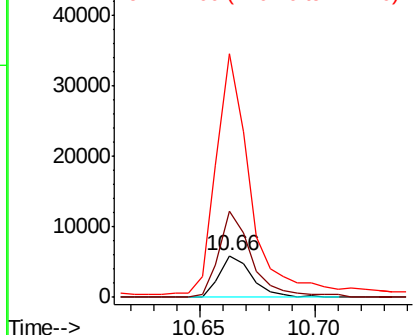
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 248   | Resp: | 5830   |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 250       | 160.6 | 77.8  | 116.6# |
| 141       | 453.1 | 64.3  | 96.5#  |

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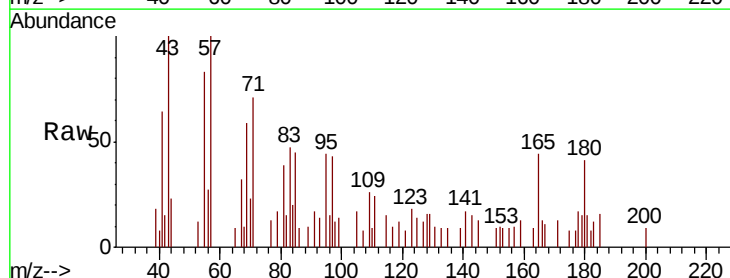


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

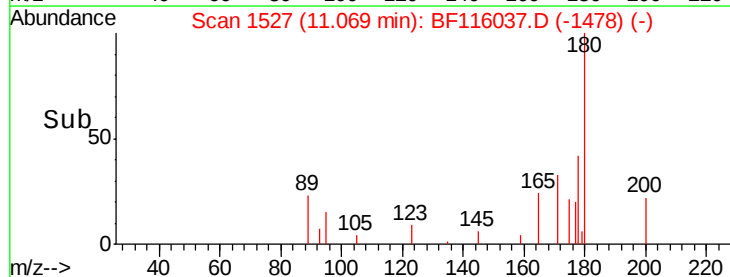
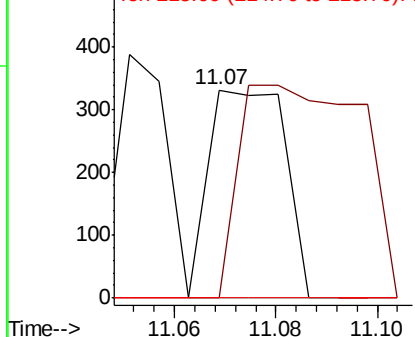


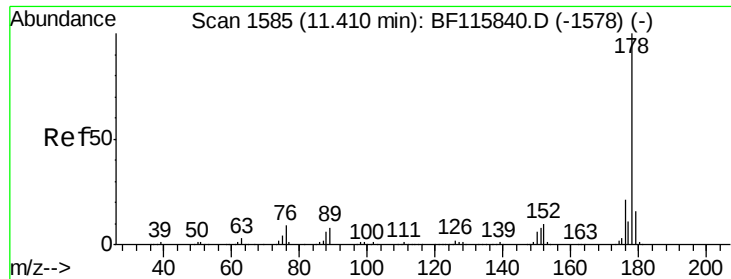
#69  
 Atrazine  
 Concen: 0.088 ng  
 RT: 11.07 min Scan# 1527  
 Delta R.T. -0.01 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 200   | Resp: | 345   |
| Ion Ratio | Lower | Upper |       |
| 200       | 100   |       |       |
| 173       | 0.0   | 7.3   | 47.3# |
| 215       | 0.0   | 26.9  | 66.9# |



Abundance Ion 200.00 (199.70 to 200.70): E  
 Ion 173.00 (172.70 to 173.70): E  
 Ion 215.00 (214.70 to 215.70): E





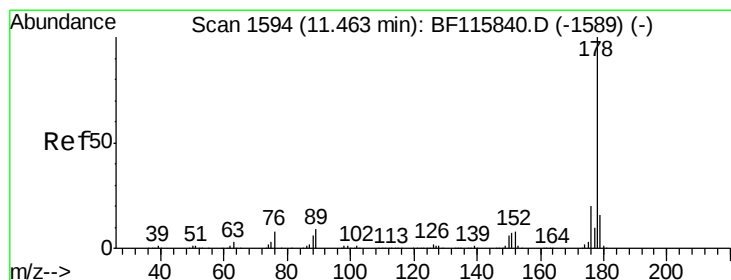
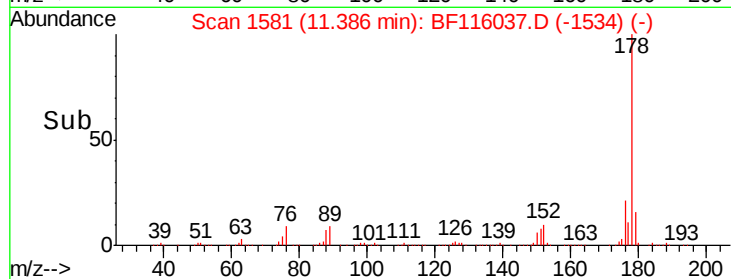
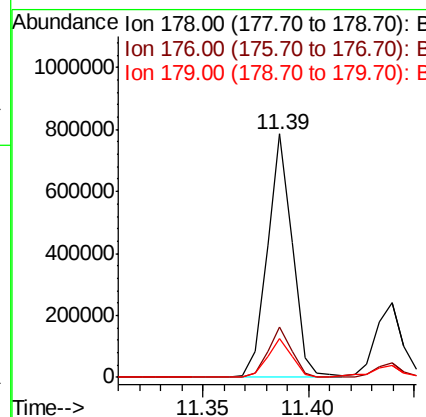
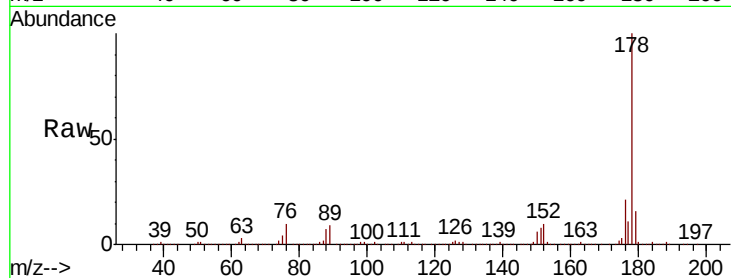
#71  
Phenanthrene  
Concen: 31.817 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 178     | 100  |       |       |       |
| 176     | 20.7 | 16.5  | 24.7  |       |
| 179     | 15.8 | 12.6  | 18.8  |       |

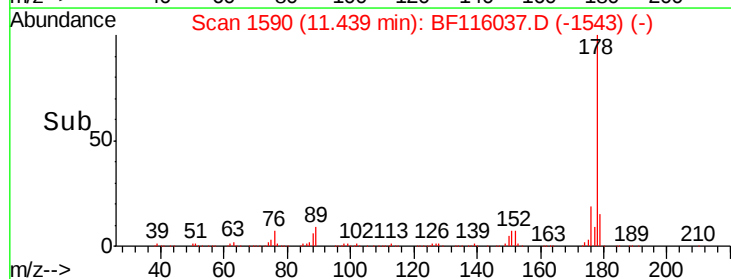
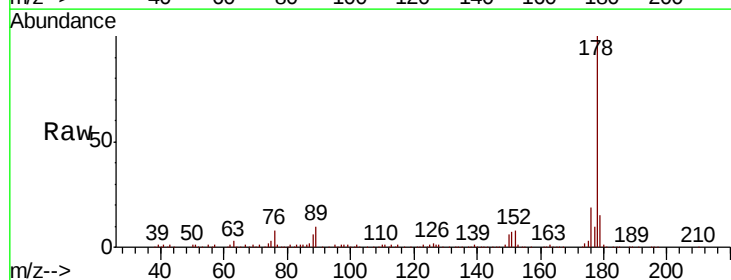
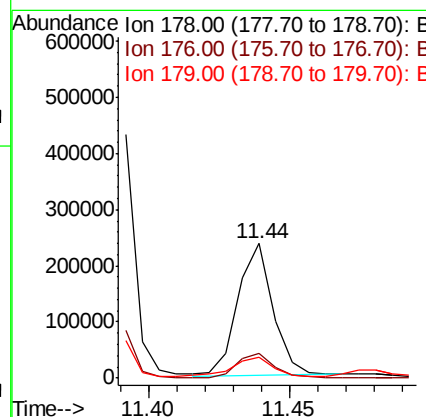
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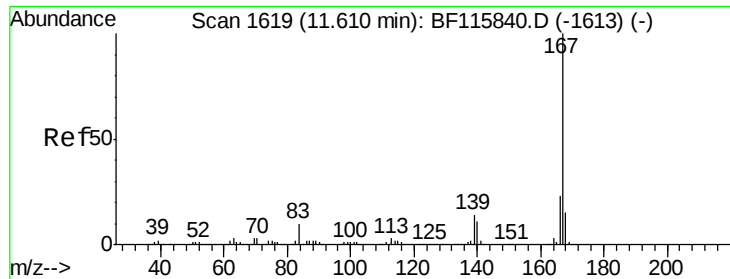
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#72  
Anthracene  
Concen: 9.904 ng  
RT: 11.44 min Scan# 1590  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 178     | 100  |       |       |       |
| 176     | 18.8 | 15.7  | 23.5  |       |
| 179     | 15.4 | 12.4  | 18.6  |       |





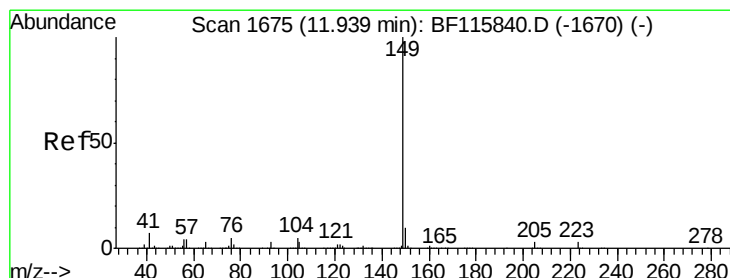
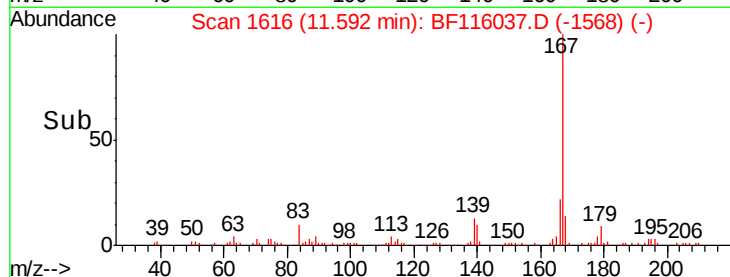
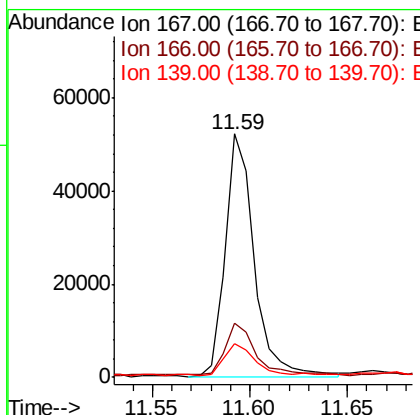
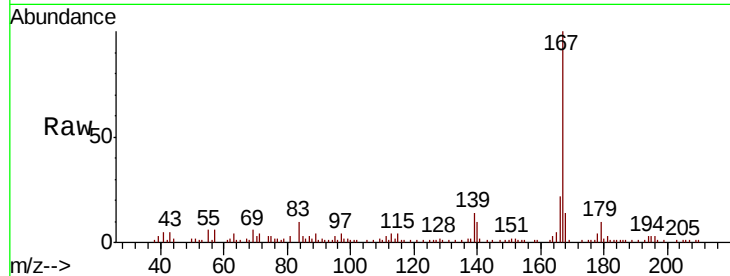
#73  
 Carbazole  
 Concen: 2.918 ng  
 RT: 11.59 min Scan# 1616  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.2  | 18.0  | 27.0  |
| 139     | 13.6  | 11.4  | 17.2  |

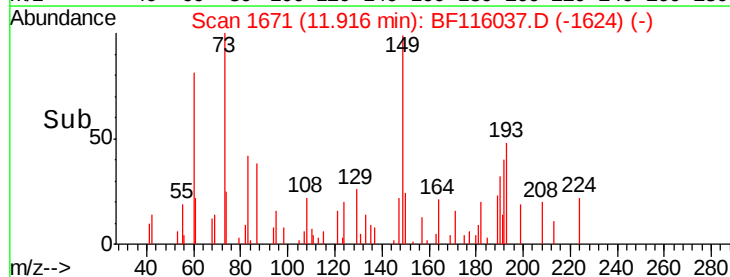
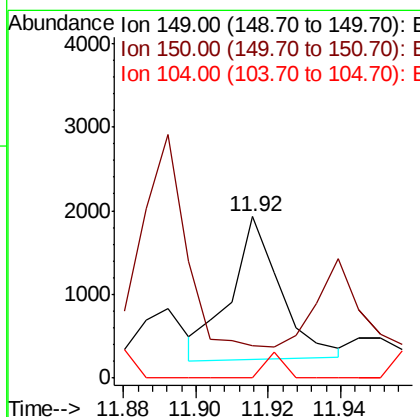
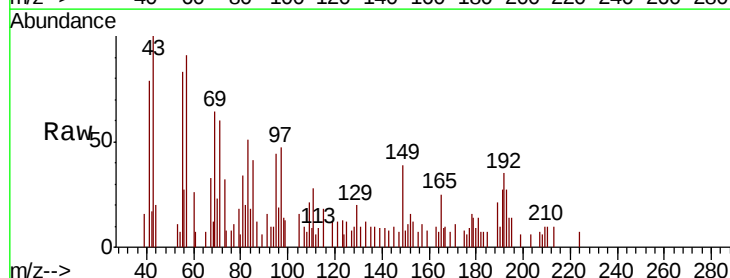
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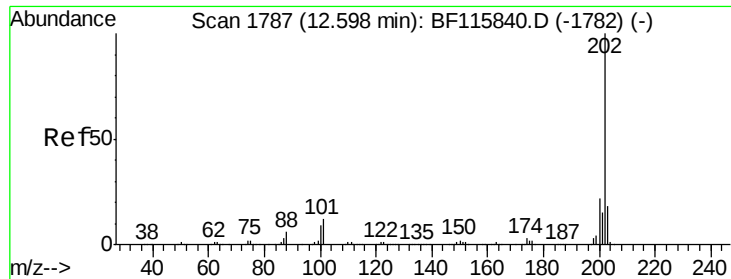
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#74  
 Di-n-butylphthalate  
 Concen: 0.075 ng  
 RT: 11.92 min Scan# 1671  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 20.1  | 7.7   | 11.5# |
| 104     | 0.0   | 4.3   | 6.5#  |





#75

Fluoranthene

Concen: 53.538 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

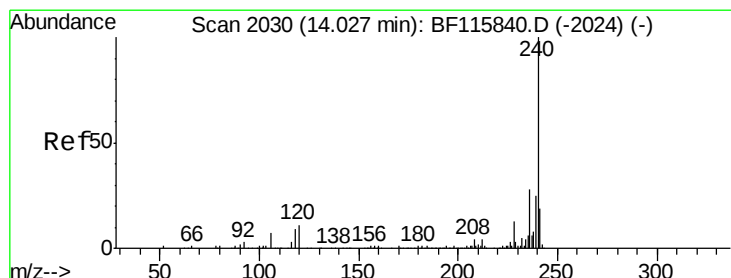
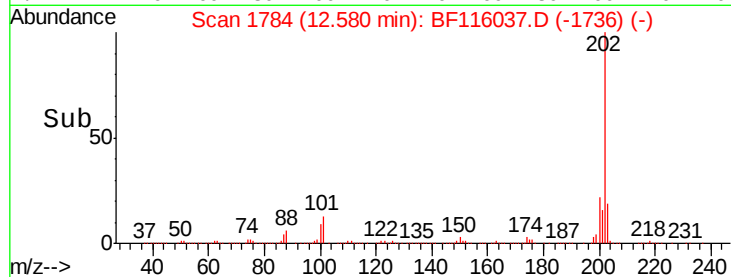
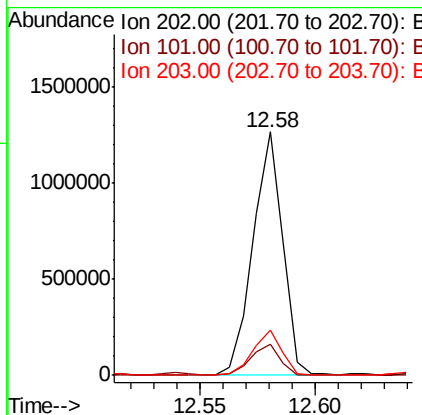
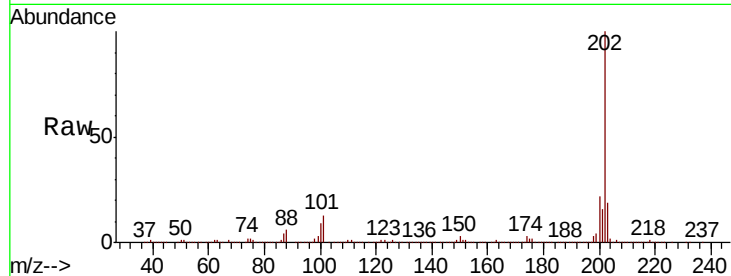
ClientSampleId :

OR-02-080219-B

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1139338 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 12.7  | 0.0   | 31.5    |
| 203      | 18.7  | 0.0   | 37.9    |

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#76

Chrysene-d12

Concen: 20.000 ng

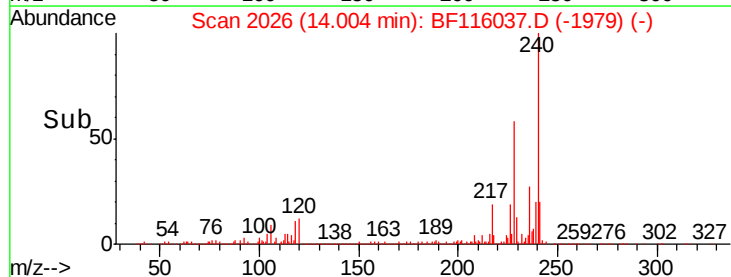
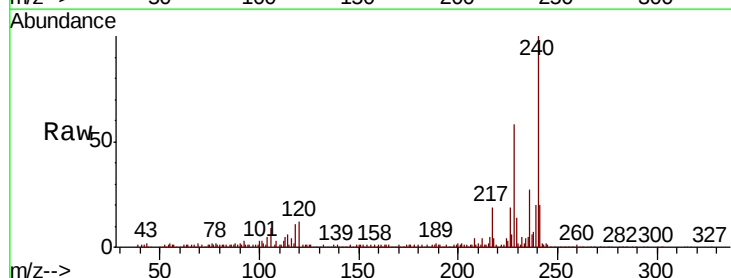
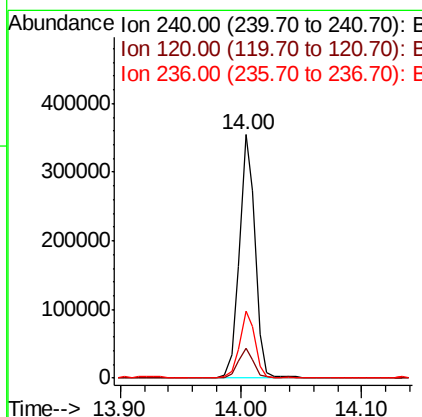
RT: 14.00 min Scan# 2026

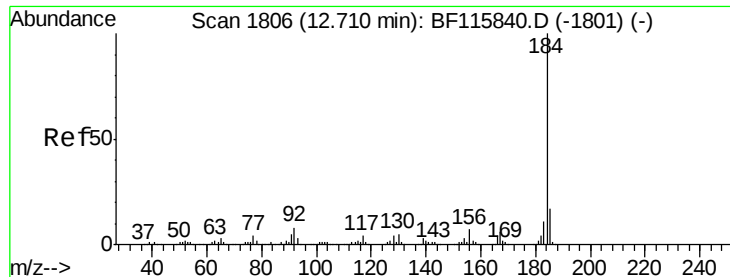
Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 319968 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 12.0  | 8.5   | 12.7   |
| 236      | 27.4  | 22.2  | 33.2   |





#77

Benzidine

Concen: 0.066 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.04 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

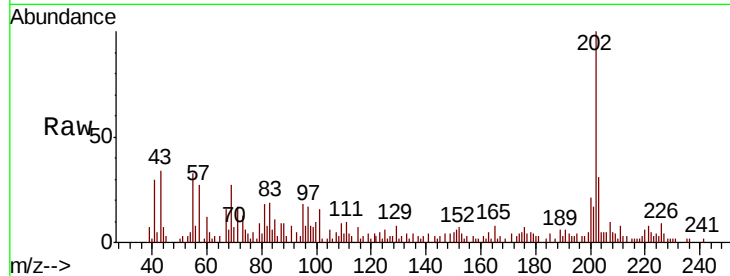
ClientSampleId :

OR-02-080219-B

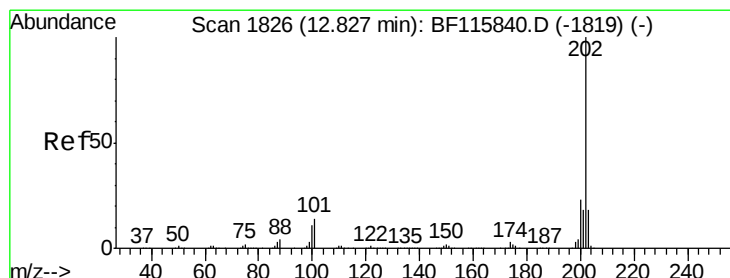
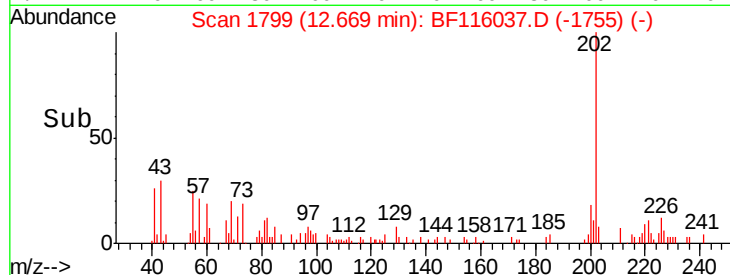
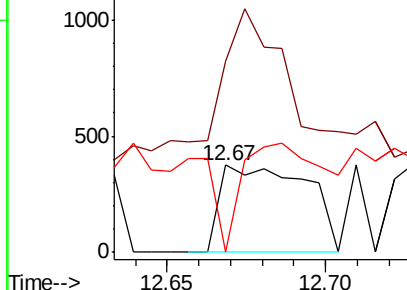
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 184   | Resp: | 709   |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 185       | 218.9 | 13.4  | 20.2# |
| 183       | 0.0   | 9.1   | 13.7# |

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Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 44.771 ng

RT: 12.81 min Scan# 1823

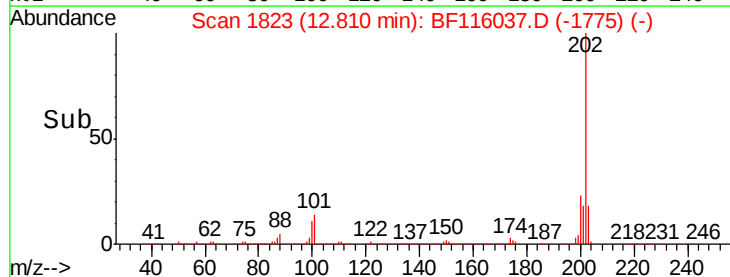
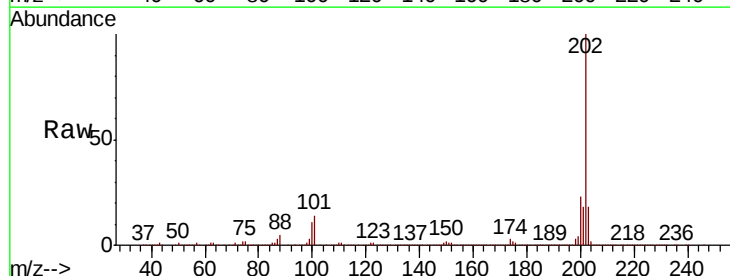
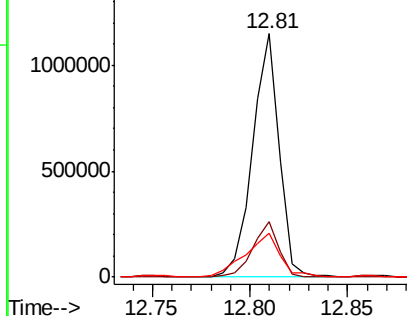
Delta R.T. -0.02 min

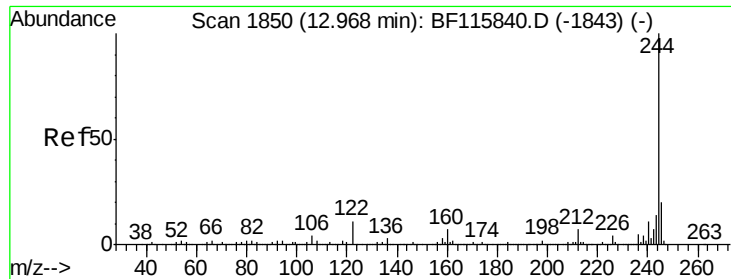
Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1079863 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 22.6  | 18.2  | 27.2    |
| 203       | 17.9  | 14.3  | 21.5    |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





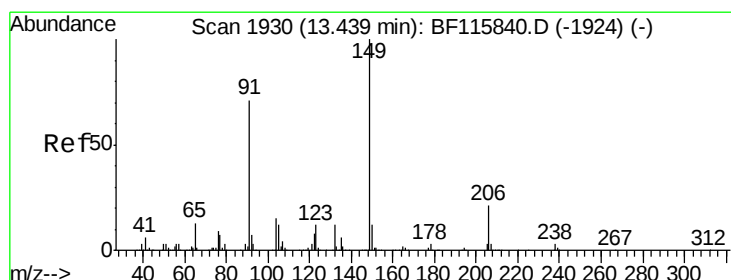
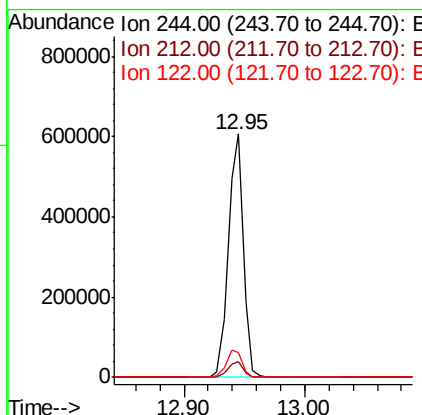
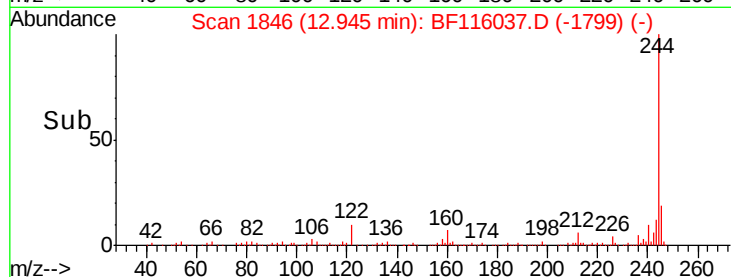
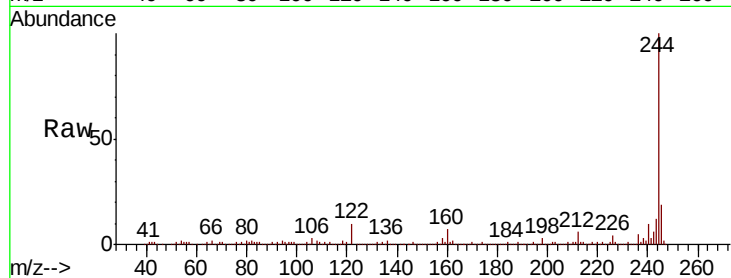
#79  
 Terphenyl-d14  
 Concen: 34.442 ng  
 RT: 12.95 min Scan# 1846  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.6   | 8.4   |
| 122     | 10.0  | 8.6   | 13.0  |

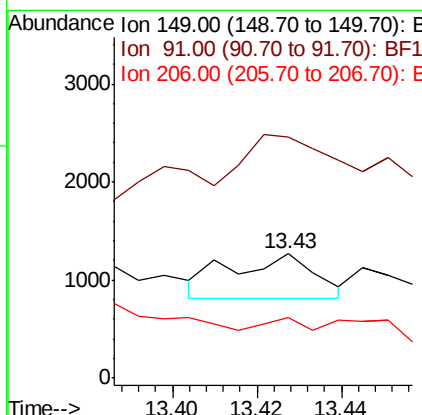
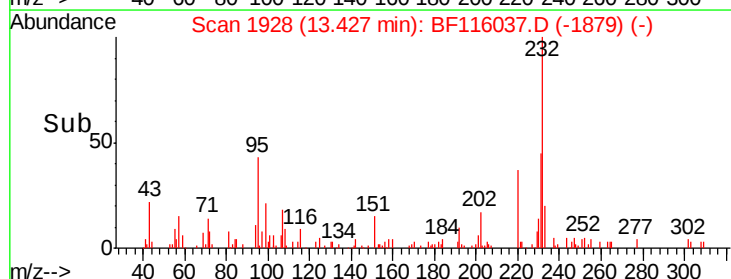
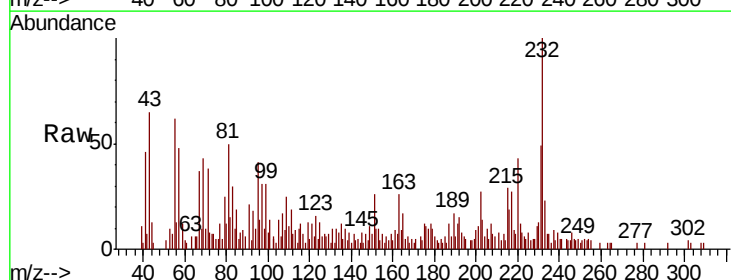
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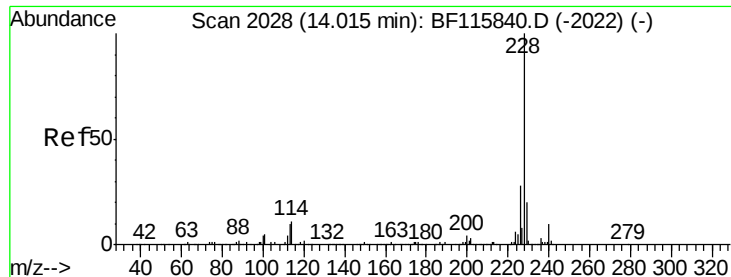
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#80  
 Butylbenzylphthalate  
 Concen: 0.062 ng  
 RT: 13.43 min Scan# 1928  
 Delta R.T. -0.01 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 194.3 | 57.0  | 85.6# |
| 206     | 49.2  | 16.9  | 25.3# |





#81

Benzo(a)anthracene

Concen: 30.308 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

Instrument :

BNA\_F

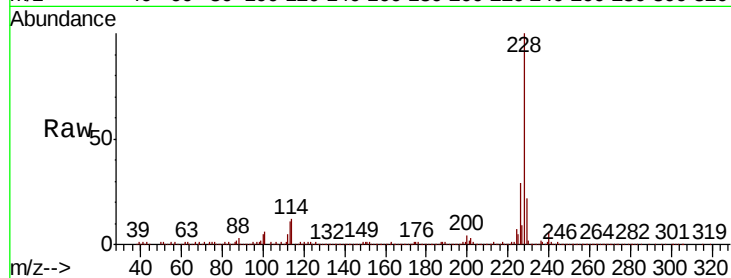
ClientSampleId :

OR-02-080219-B

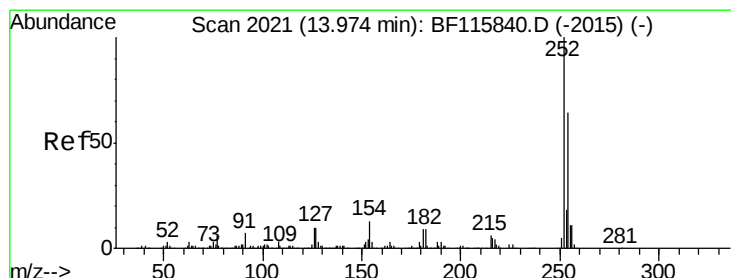
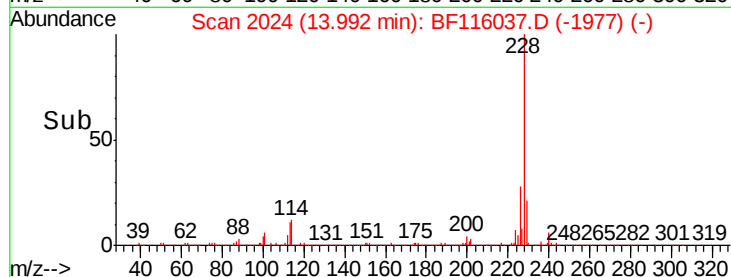
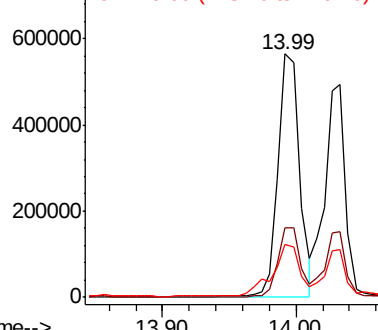
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 619845 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.6  | 22.5  | 33.7   |
| 229       | 21.7  | 16.1  | 24.1   |

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 0.043 ng

RT: 13.96 min Scan# 2018

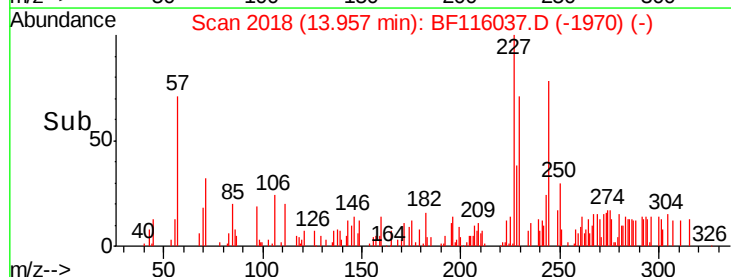
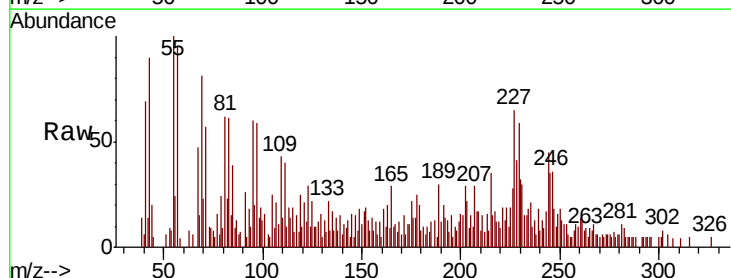
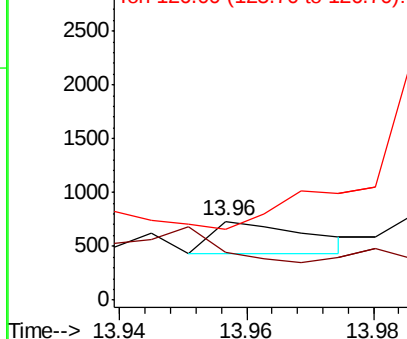
Delta R.T. -0.02 min

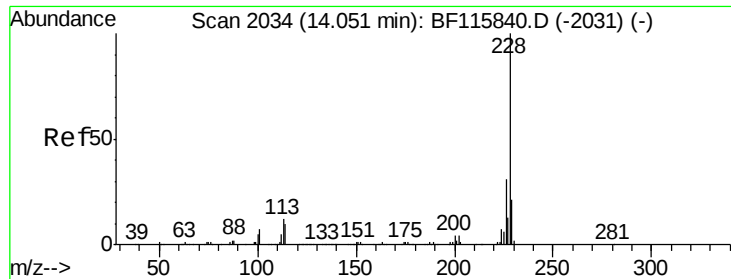
Lab File: BF116037.D

Acq: 7 Aug 2019 4:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 306   |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 254       | 60.5  | 51.2  | 76.8  |
| 126       | 89.5  | 8.1   | 12.1# |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 254.00 (253.70 to 254.70): E  
Ion 126.00 (125.70 to 126.70): E





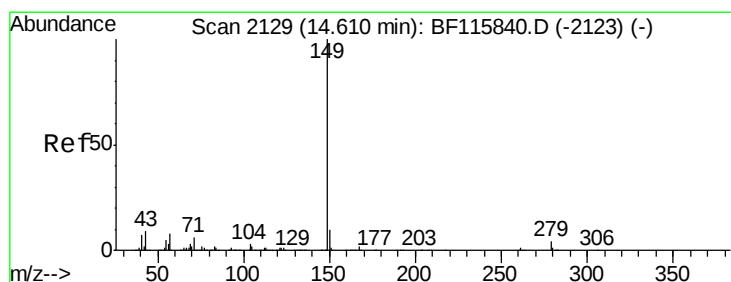
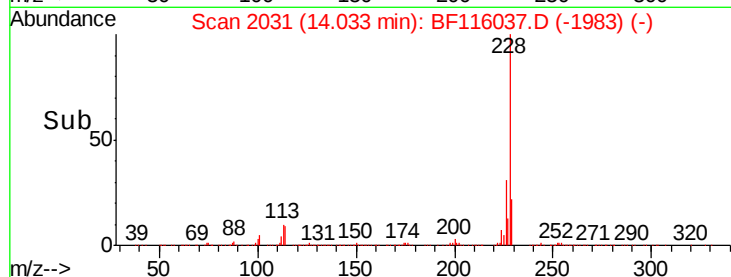
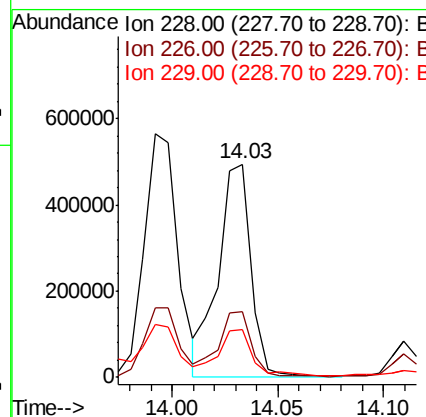
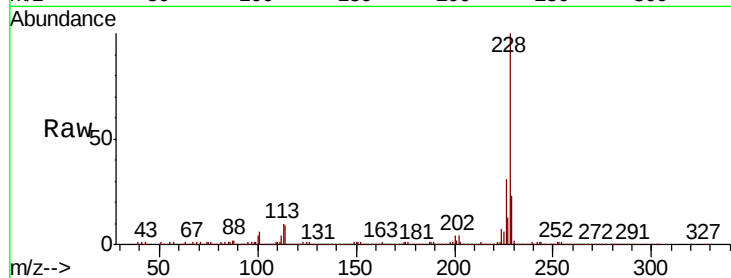
#83  
 Chrysene  
 Concen: 26.575 ng  
 RT: 14.03 min Scan# 2031  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 24.8  | 37.2  |
| 229     | 22.6  | 16.4  | 24.6  |

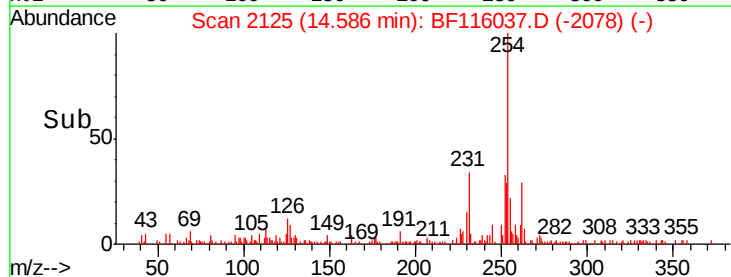
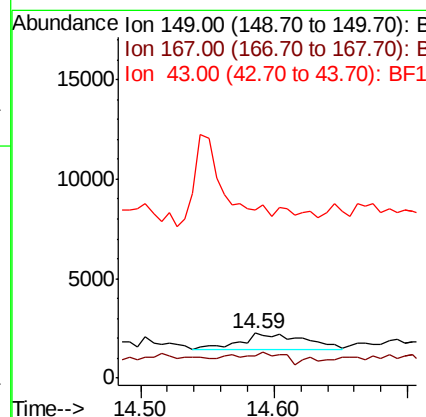
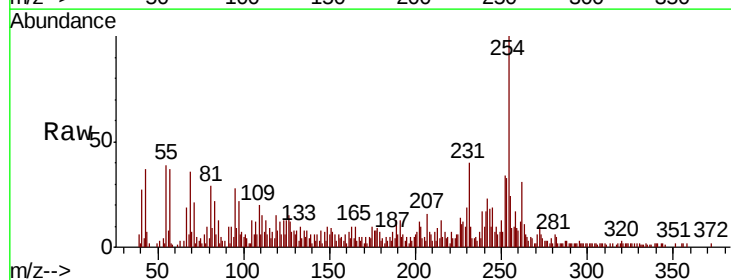
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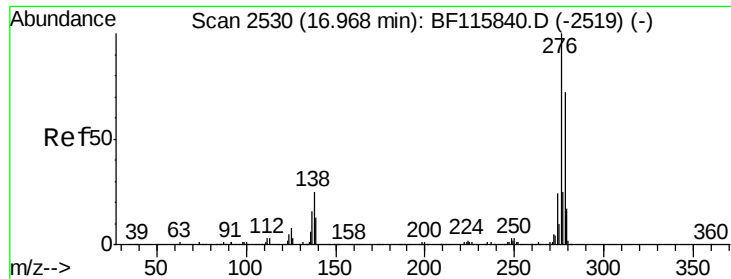
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#85  
 Di-n-octyl phthalate  
 Concen: 0.139 ng  
 RT: 14.59 min Scan# 2125  
 Delta R.T. -0.02 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 35.7  | 1.2   | 1.8#  |
| 43      | 0.0   | 7.4   | 11.0# |





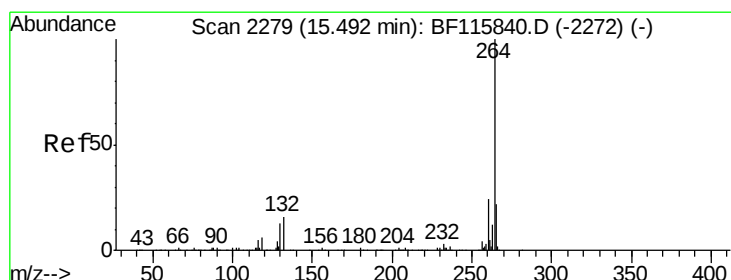
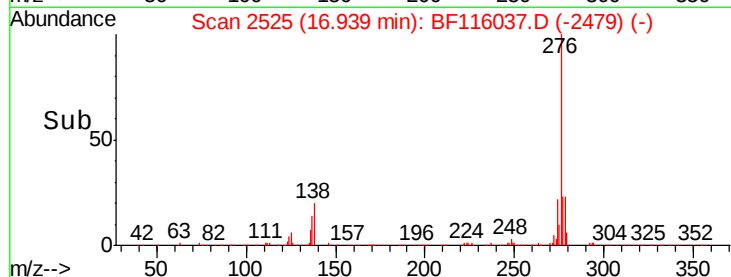
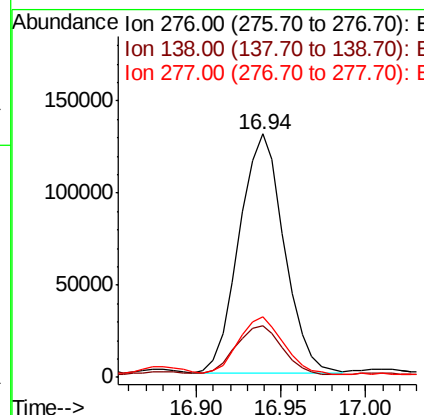
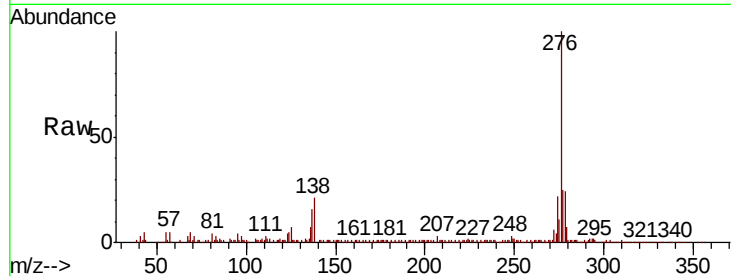
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 14.415 ng  
RT: 16.94 min Scan# 2525  
Delta R.T. -0.03 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.6  | 19.6  | 29.4  |
| 277     | 23.9  | 20.1  | 30.1  |

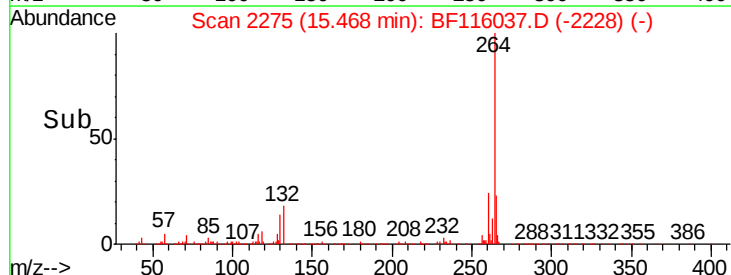
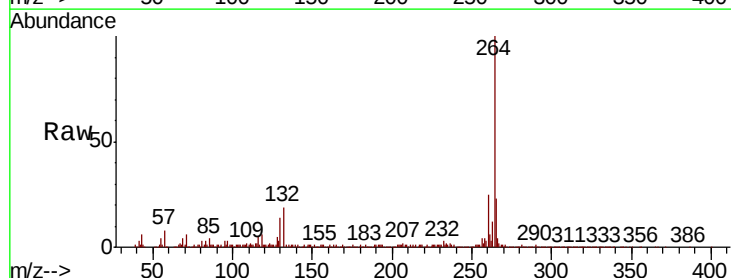
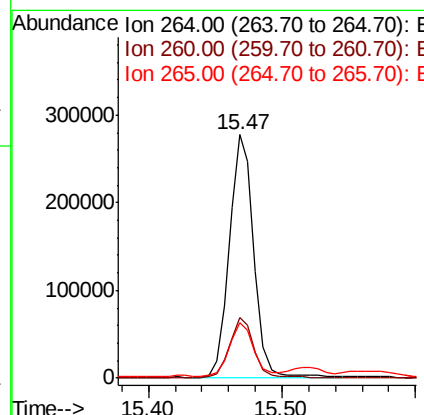
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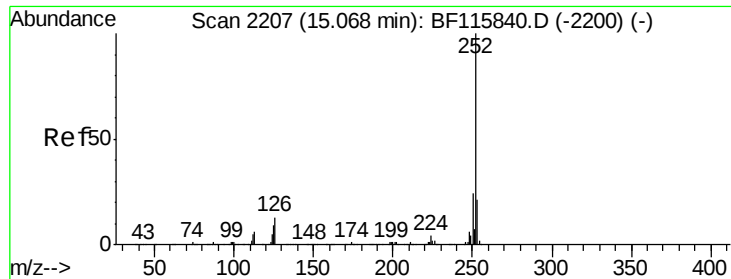
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.4  | 29.2  |
| 265     | 23.0  | 17.5  | 26.3  |





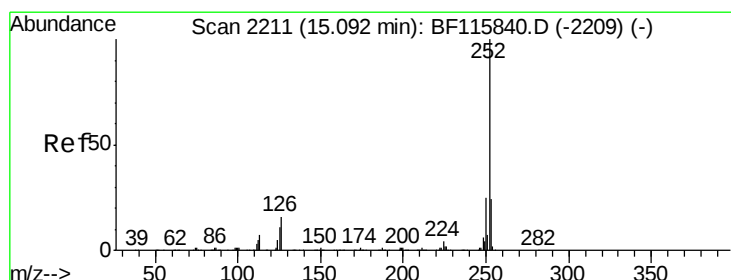
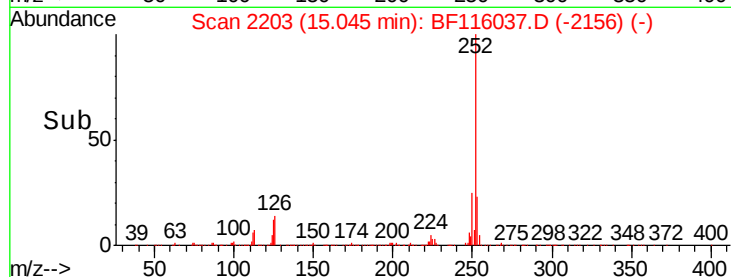
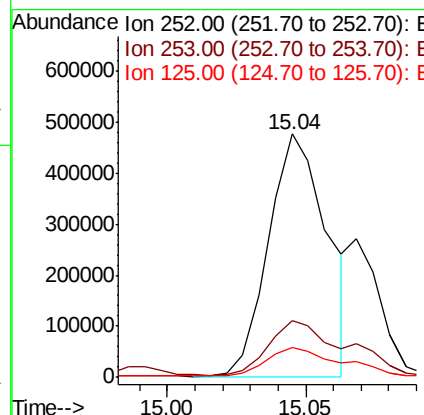
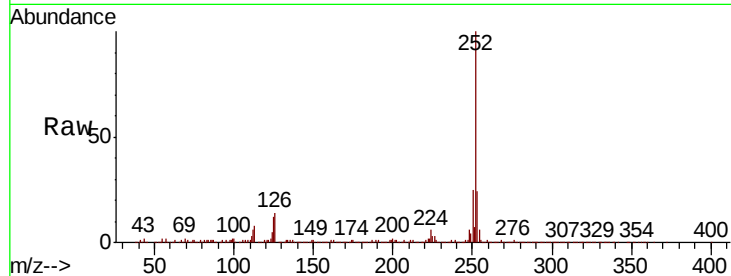
#88  
Benzo(b)fluoranthene  
Concen: 34.534 ng m  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.2  | 25.8  |
| 125     | 12.4  | 7.4   | 11.0  |

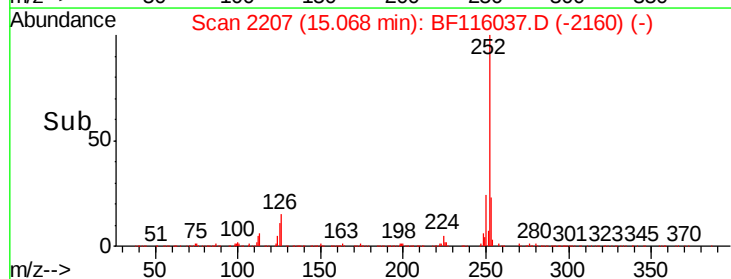
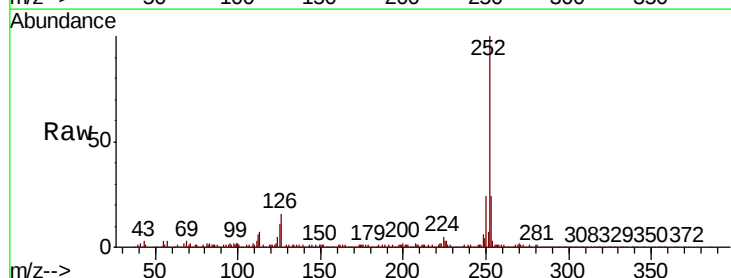
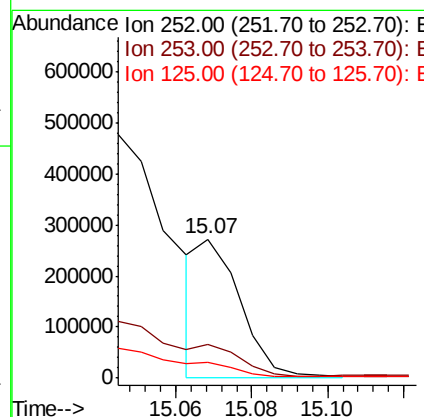
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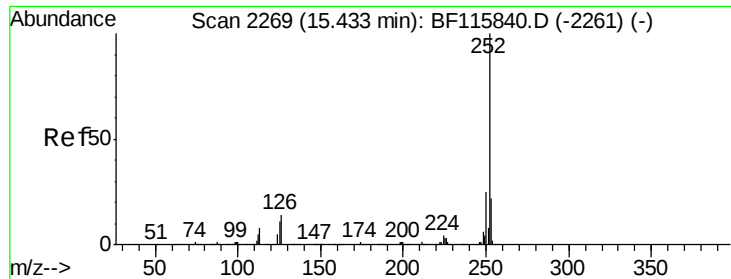
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#89  
Benzo(k)fluoranthene  
Concen: 10.668 ng m  
RT: 15.07 min Scan# 2207  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 18.2  | 27.4  |
| 125     | 11.4  | 8.9   | 13.3  |





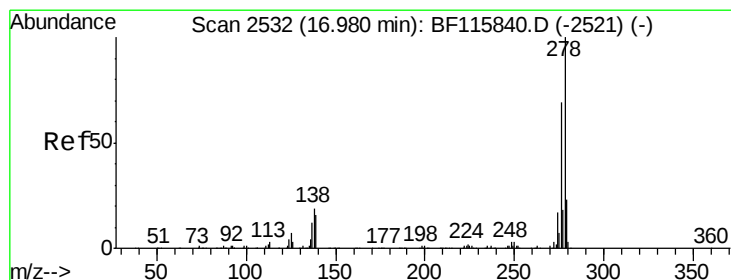
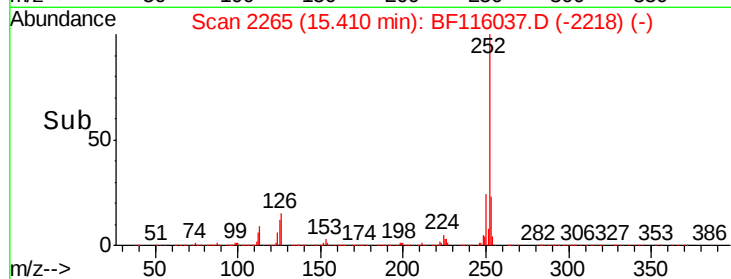
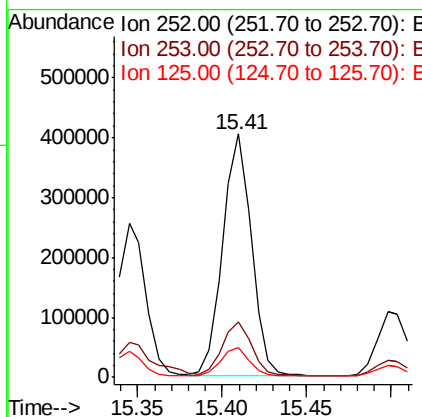
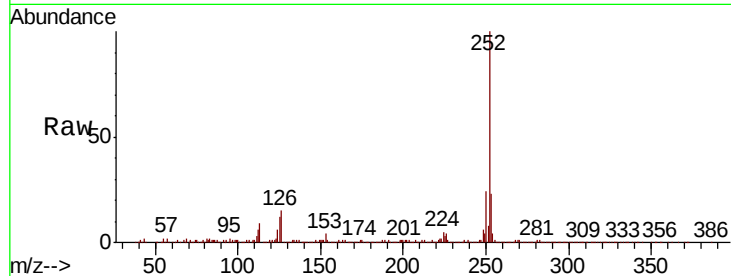
#90  
Benzo(a)pyrene  
Concen: 26.447 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. -0.02 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.8  | 26.6  |
| 125     | 12.2  | 8.8   | 13.2  |

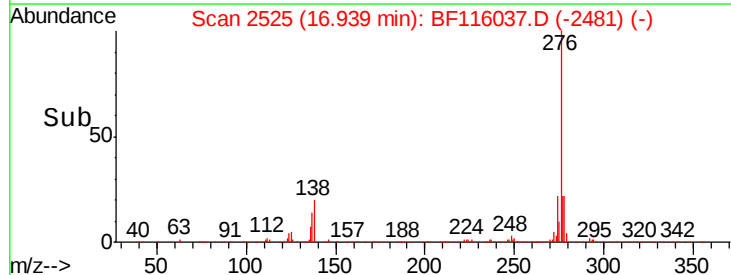
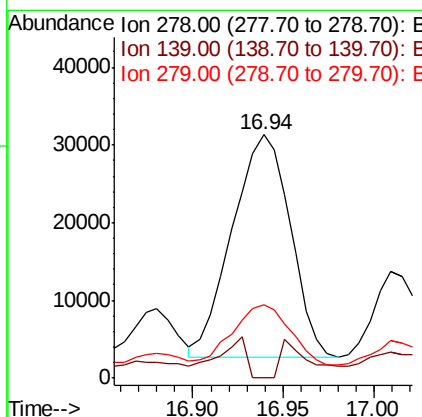
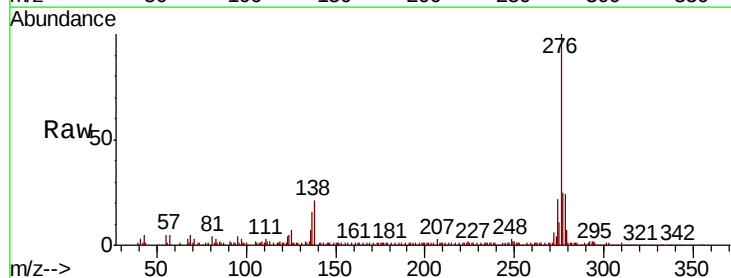
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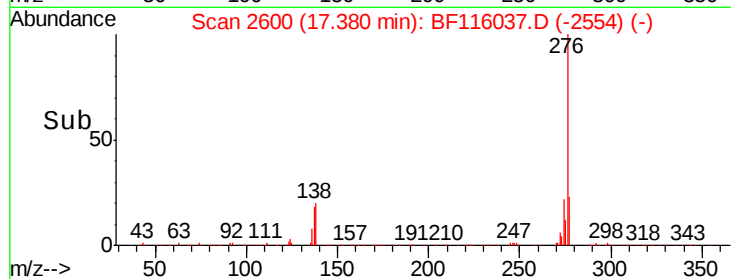
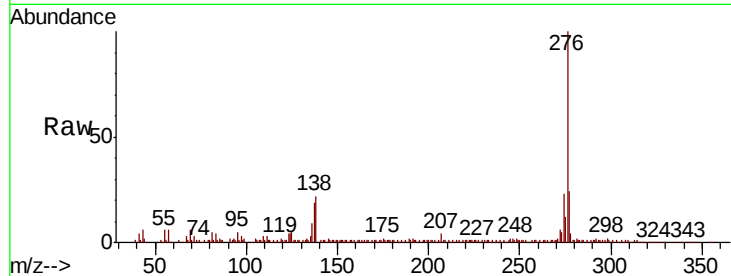
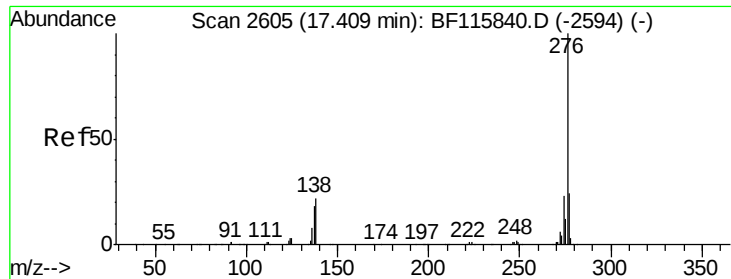
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#91  
Dibenzo(a,h)anthracene  
Concen: 4.040 ng  
RT: 16.94 min Scan# 2525  
Delta R.T. -0.04 min  
Lab File: BF116037.D  
Acq: 7 Aug 2019 4:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 12.6  | 19.0# |
| 279     | 30.0  | 18.8  | 28.2# |





#92  
 Benzo(a,h,i)perylene  
 Concen: 14.070 ng  
 RT: 17.38 min Scan# 2600  
 Delta R.T. -0.03 min  
 Lab File: BF116037.D  
 Acq: 7 Aug 2019 4:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-080219-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.5  | 19.5  | 29.3  |
| 138     | 22.5  | 17.8  | 26.8  |

Manual Integrations  
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