

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\  
 Data File : BF118769.D  
 Acq On : 30 Jan 2020 23:25  
 Operator : CG/JU  
 Sample : L1004-16 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-01-012920

Manual Integrations  
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mohammad  
 2/3/2020 7:57:34 AM

Quant Time: Jan 31 00:25:38 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 27 14:24:10 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 236616   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.12  | 136  | 873221   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 9.88  | 164  | 449476   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.36 | 188  | 761921   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12            | 14.00 | 240  | 661949   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12            | 15.47 | 264  | 742350   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 684516   | 53.73  | ng    | -0.03    |
| 7) Phenol-d6                | 6.46  | 99   | 824697   | 49.80  | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 505874   | 32.40  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 252340   | 48.54  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1083522  | 39.62  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.95 | 244  | 1219173  | 40.17  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 49) Acenaphthylene          | 9.74  | 152  | 209764   | 5.711  | ng    | 97       |
| 50) Dimethylphthalate       | 9.59  | 163  | 105712   | 3.610  | ng    | 100      |
| 71) Phenanthrene            | 11.39 | 178  | 412958   | 11.234 | ng    | 96       |
| 72) Anthracene              | 11.44 | 178  | 171418   | 4.713  | ng    | 98       |
| 75) Fluoranthene            | 12.58 | 202  | 767656   | 19.801 | ng    | 96       |
| 78) Pyrene                  | 12.80 | 202  | 785527   | 17.479 | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.99 | 228  | 465474m  | 11.690 | ng    |          |
| 83) Chrysene                | 14.03 | 228  | 433362   | 11.355 | ng    | 97       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.92 | 276  | 339771   | 10.246 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.04 | 252  | 794858m  | 17.034 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.07 | 252  | 196323m  | 4.541  | ng    |          |
| 90) Benzo(a)pyrene          | 15.40 | 252  | 415494   | 10.322 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 16.93 | 278  | 80829    | 2.270  | ng    | # 87     |
| 92) Benzo(g,h,i)perylene    | 17.37 | 276  | 355092   | 10.271 | ng    | 100      |

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

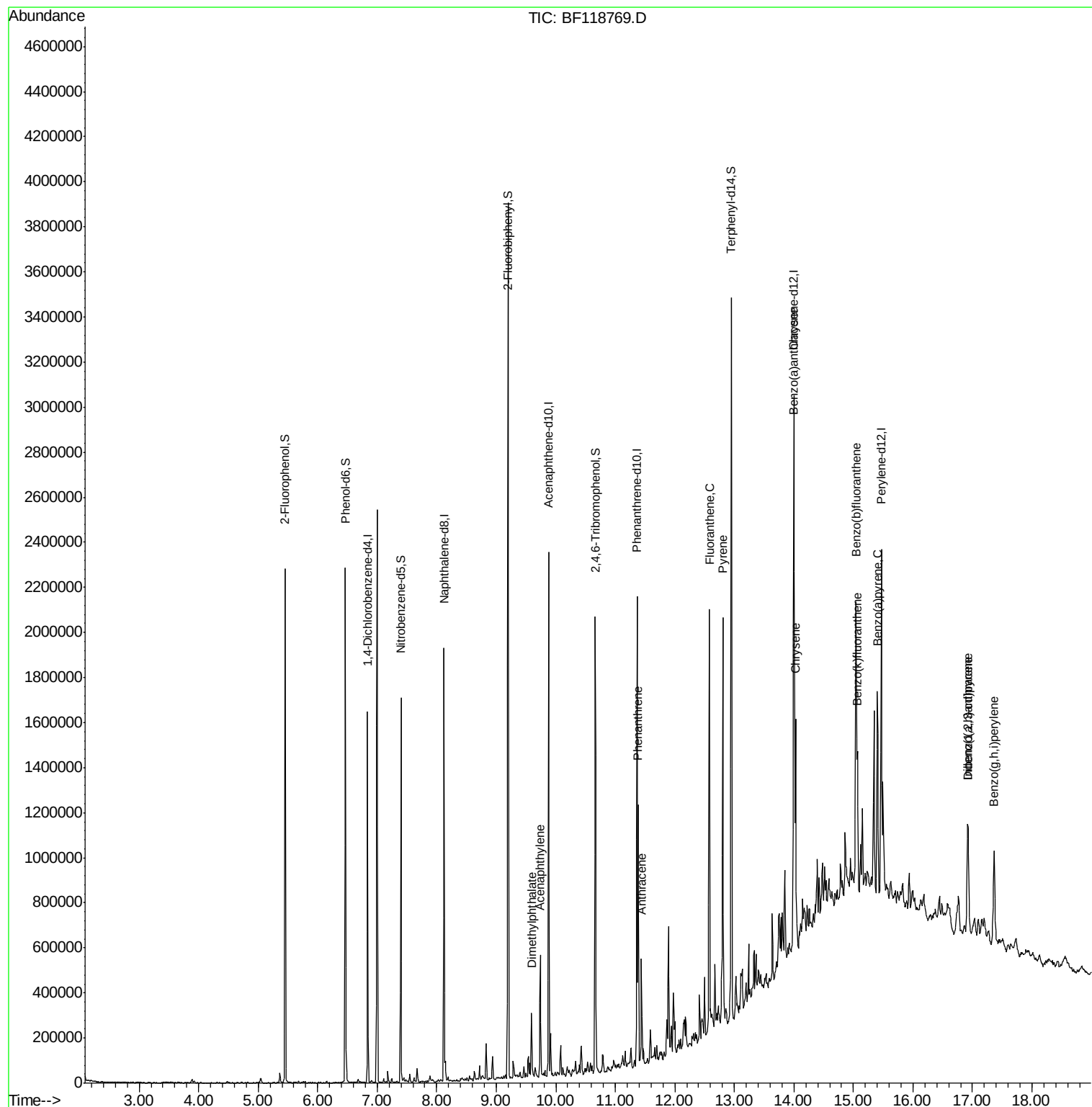
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\  
Data File : BF118769.D  
Acq On : 30 Jan 2020 23:25  
Operator : CG/JU  
Sample : L1004-16 2X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

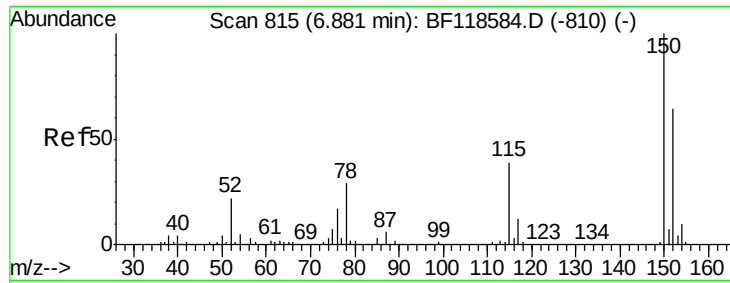
Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

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2/3/2020 7:57:34 AM

Quant Time: Jan 31 00:25:38 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 27 14:24:10 2020  
Response via : Initial Calibration





#1

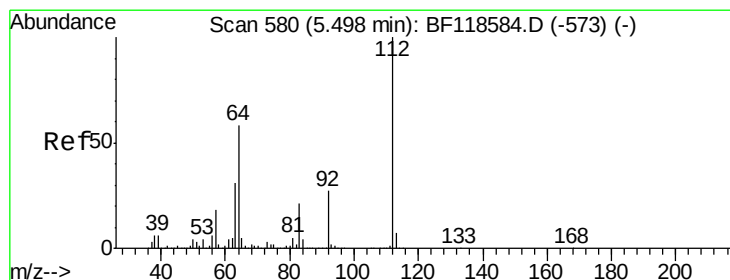
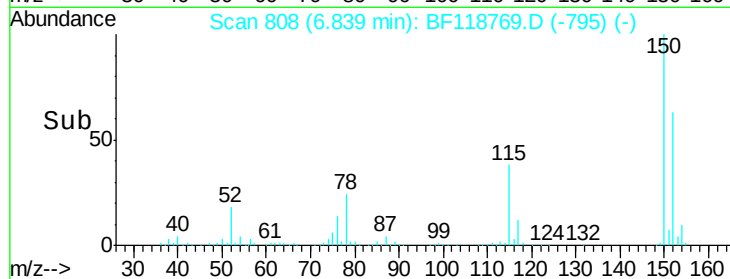
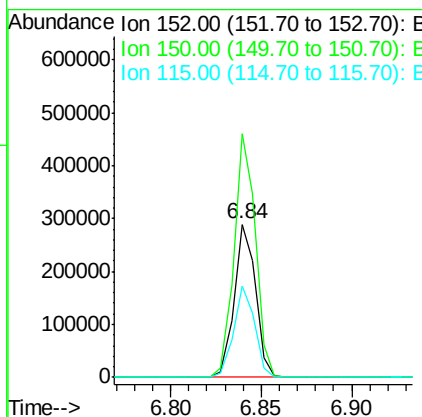
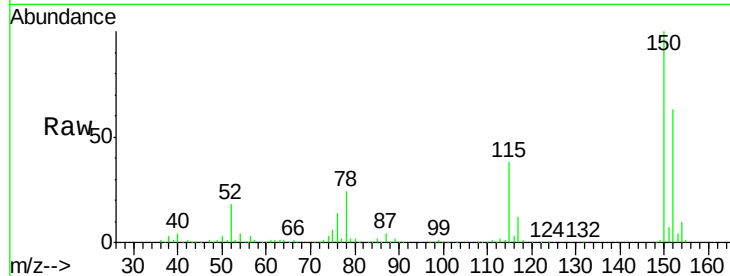
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.1 | 123.7 | 185.5 |
| 115     | 59.9  | 45.1  | 67.7  |

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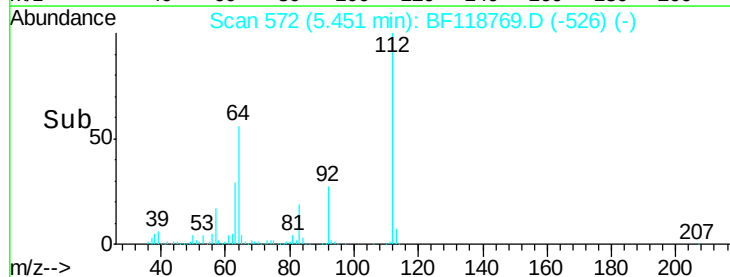
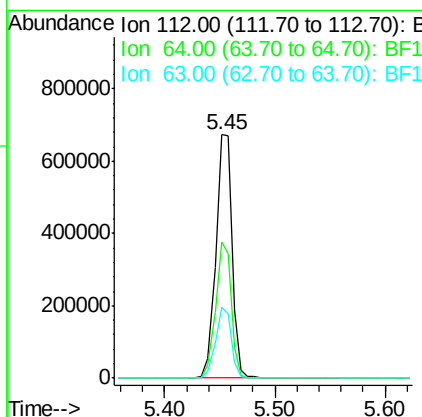
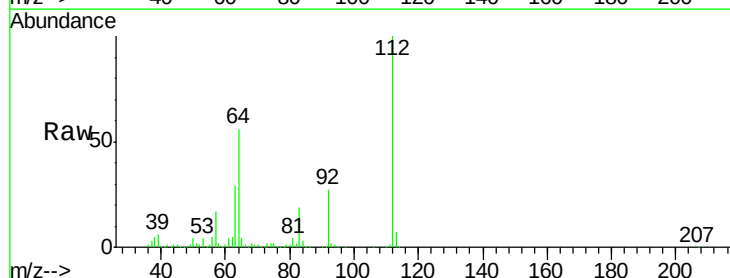
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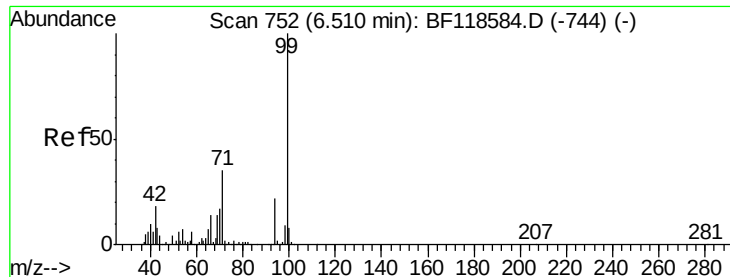


#5

2-Fluorophenol  
Concen: 53.729 ng  
RT: 5.45 min Scan# 572  
Delta R.T. -0.03 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.0  | 42.4  | 63.6  |
| 63      | 29.3  | 21.7  | 32.5  |





#7

Phenol-d6

Concen: 49.804 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.03 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA\_F

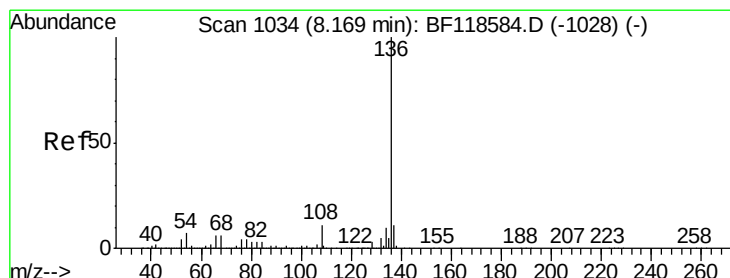
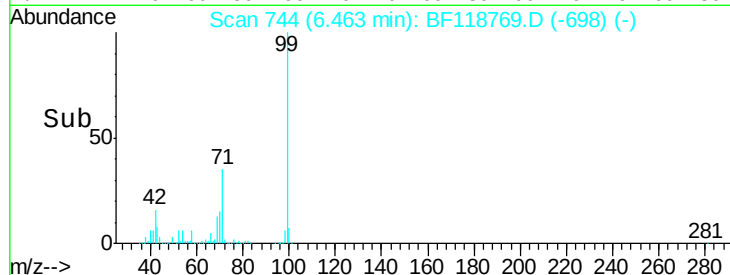
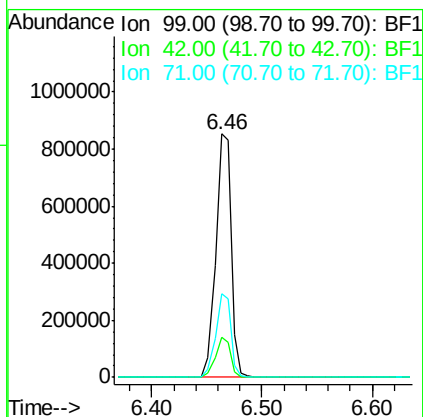
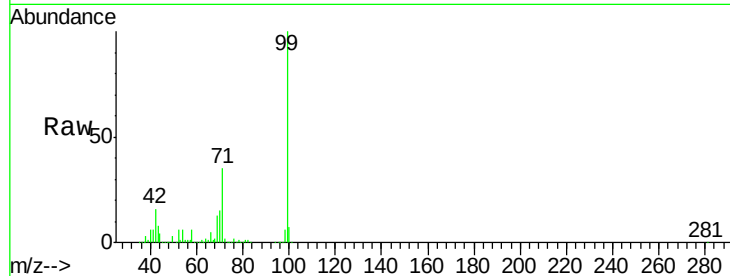
ClientSampleId :

BU-01-012920

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 824697 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.5  | 13.1  | 19.7   |
| 71        | 34.6  | 28.4  | 42.6   |

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#21

Naphthalene-d8

Concen: 20.000 ng

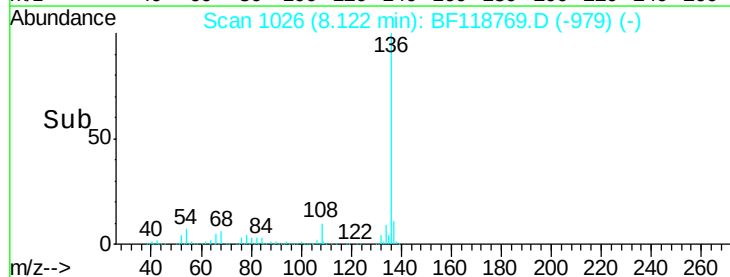
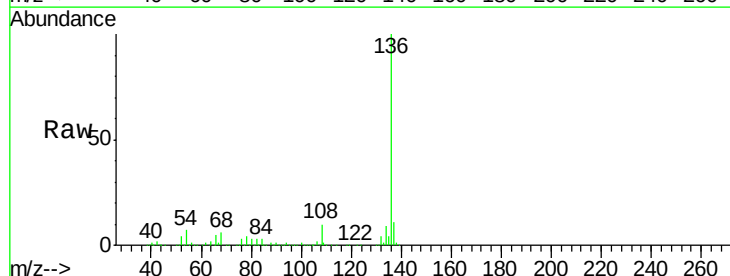
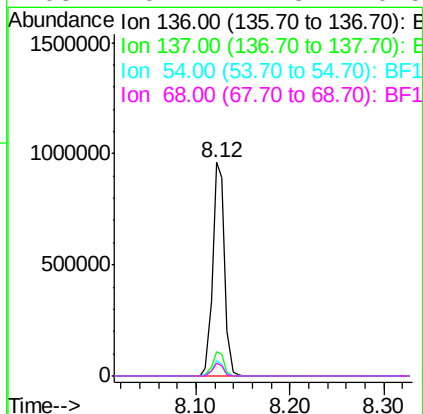
RT: 8.12 min Scan# 1026

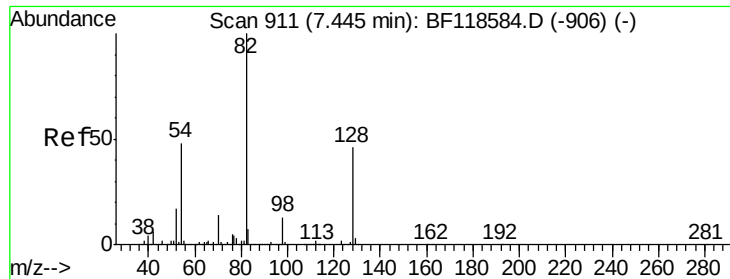
Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 873221 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.9   | 13.3   |
| 54        | 6.9   | 5.1   | 7.7    |
| 68        | 6.2   | 4.3   | 6.5    |





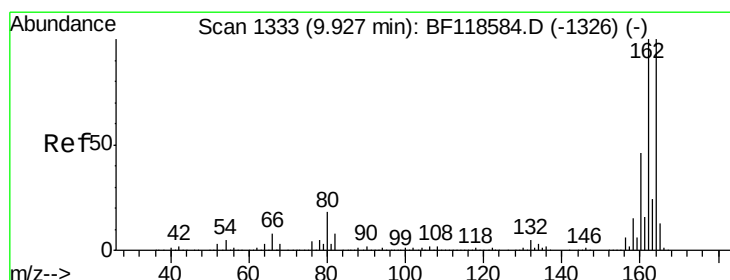
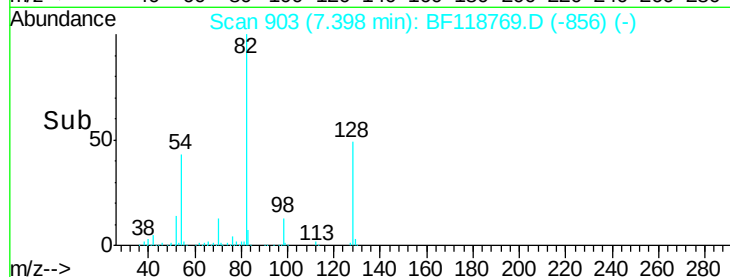
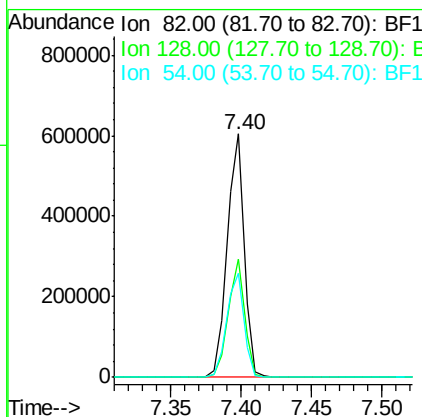
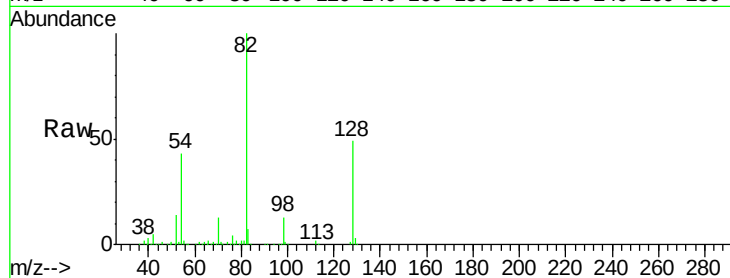
#23  
Nitrobenzene-d5  
Concen: 32.404 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

| Tot Ion   | 82    | Resp  | 505874 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 48.5  | 38.2  | 57.2   |
| 54        | 42.5  | 36.1  | 54.1   |

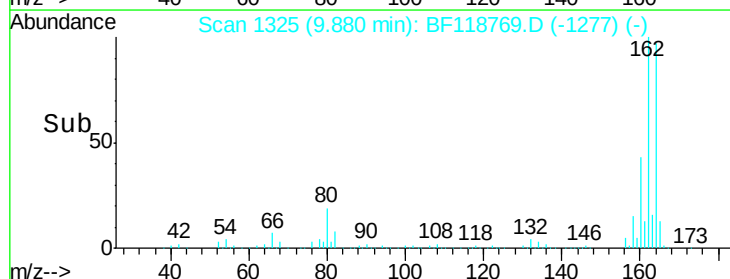
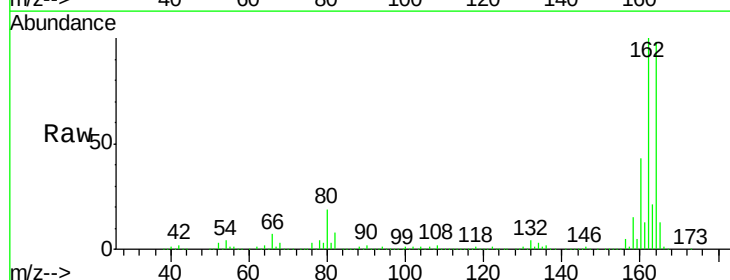
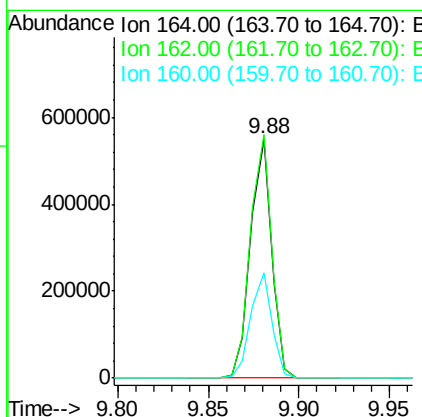
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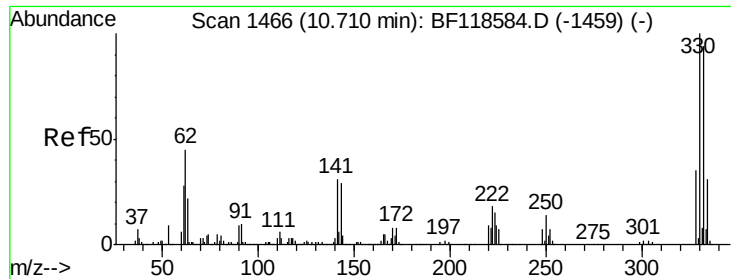
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

| Tgt Ion   | 164   | Resp  | 449476 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.0 | 80.8  | 121.2  |
| 160       | 44.1  | 35.4  | 53.0   |





#42

2,4,6-Tribromophenol

Concen: 48.538 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA\_F

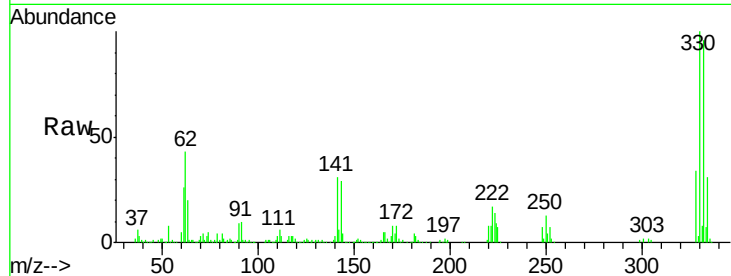
ClientSampleId :

BU-01-012920

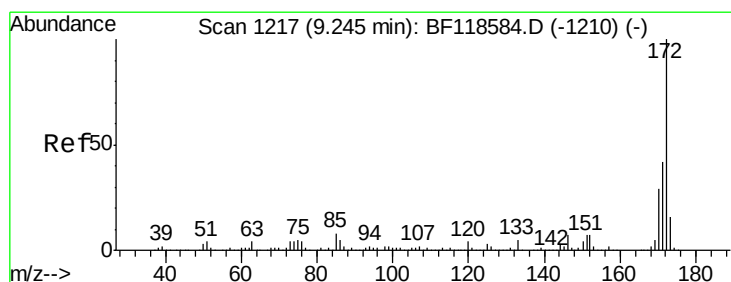
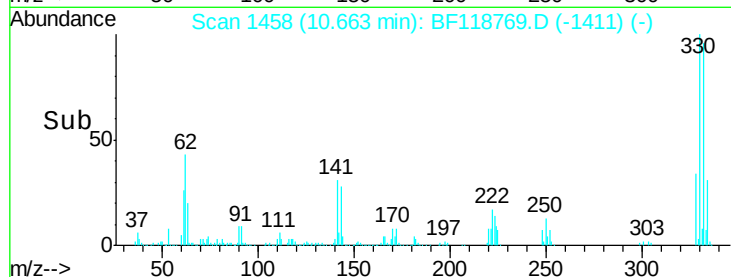
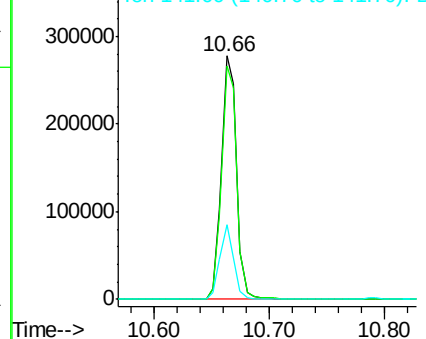
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 252340 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.0  | 77.6  | 116.4  |
| 141       | 28.0  | 22.2  | 33.2   |

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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: 39.622 ng

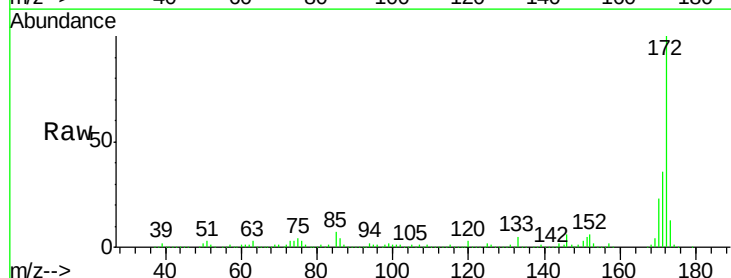
RT: 9.20 min Scan# 1209

Delta R.T. -0.02 min

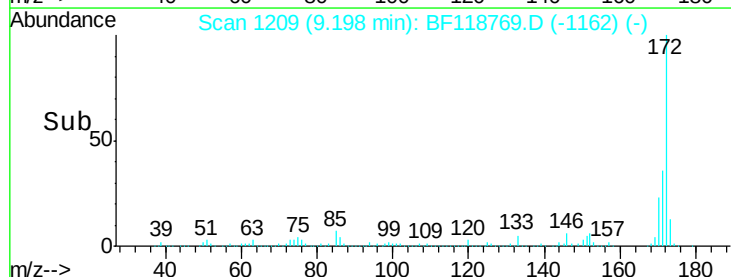
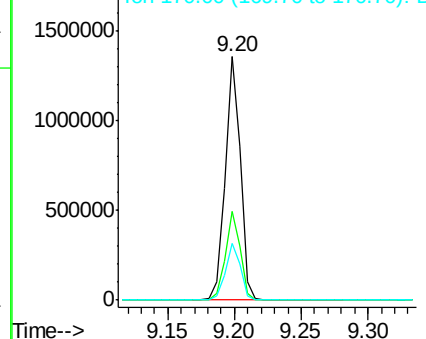
Lab File: BF118769.D

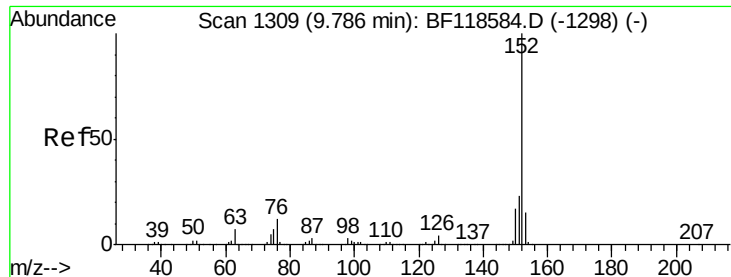
Acq: 30 Jan 2020 23:25

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1083522 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 36.3  | 31.0  | 46.4    |
| 170       | 23.2  | 20.7  | 31.1    |



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





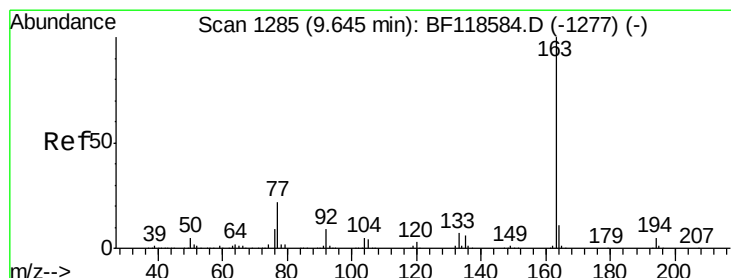
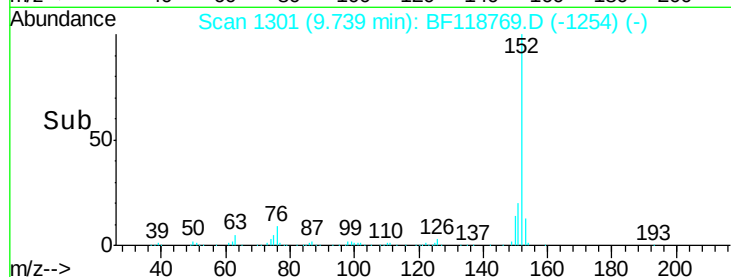
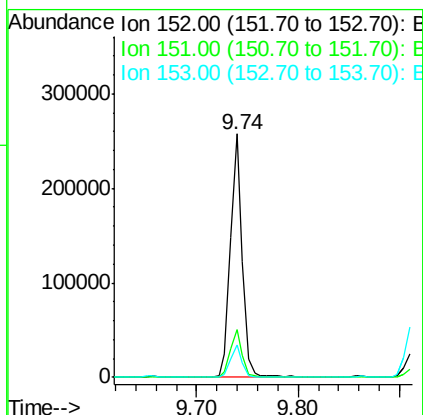
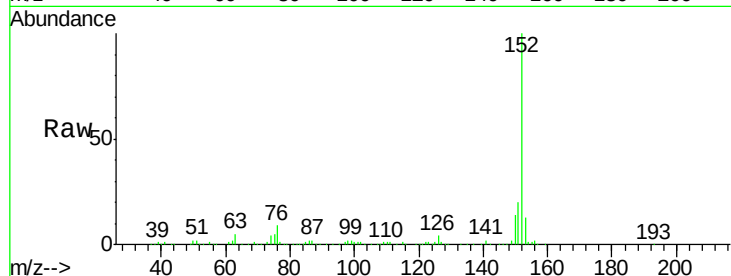
#49  
Acenaphthylene  
Concen: 5.711 ng  
RT: 9.74 min Scan# 1301  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 17.1  | 25.7  |
| 153     | 13.2  | 11.0  | 16.4  |

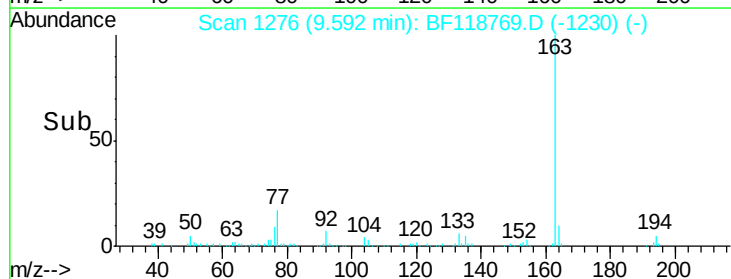
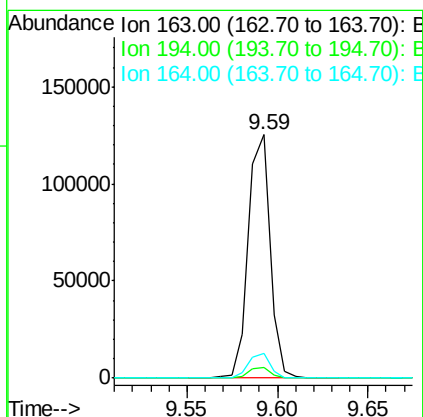
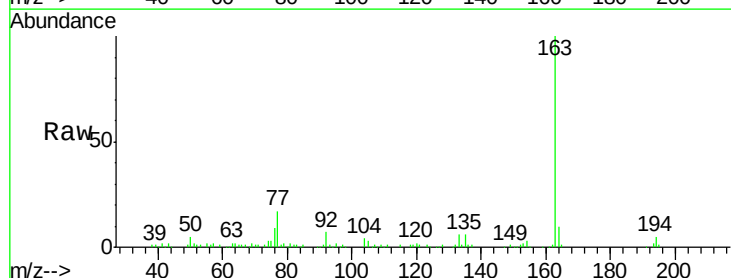
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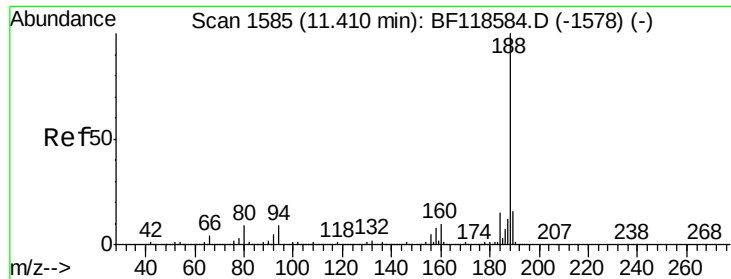
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2/3/2020 7:57:34 AM



#50  
Dimethylphthalate  
Concen: 3.610 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.03 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.6   | 3.7   | 5.5   |
| 164     | 10.3  | 8.2   | 12.2  |





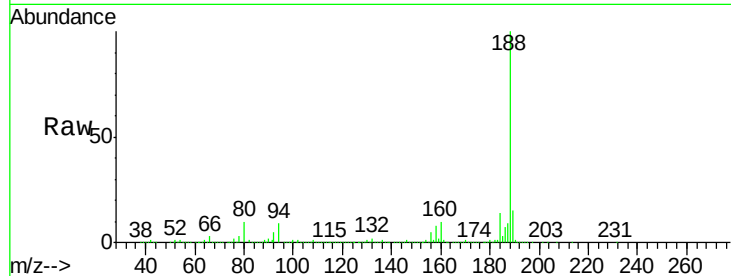
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

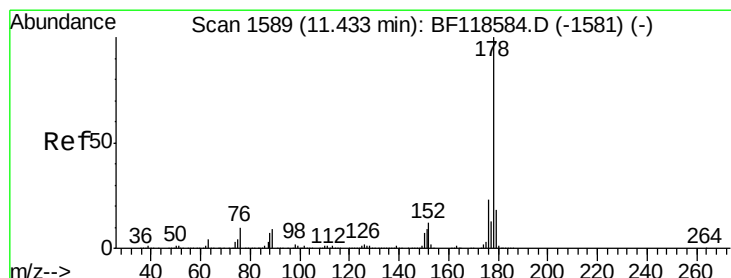
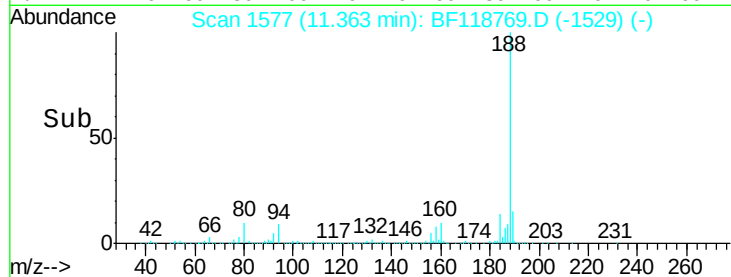
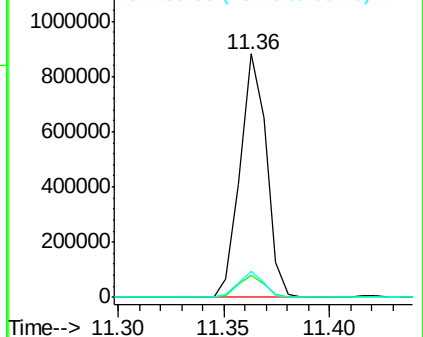
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 761921 |       |       |
| 94      | 9.3   |        | 7.4   | 11.2  |
| 80      | 10.4  |        | 7.8   | 11.8  |

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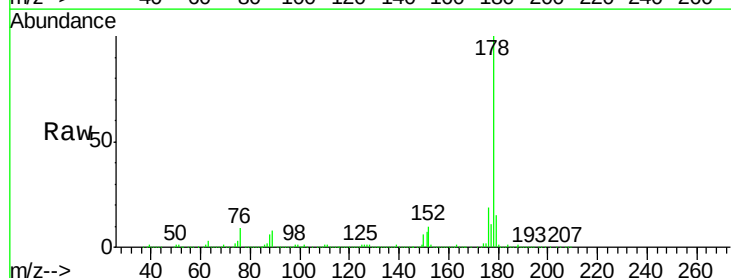


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

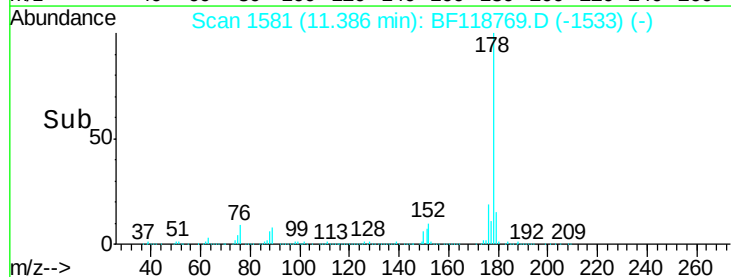
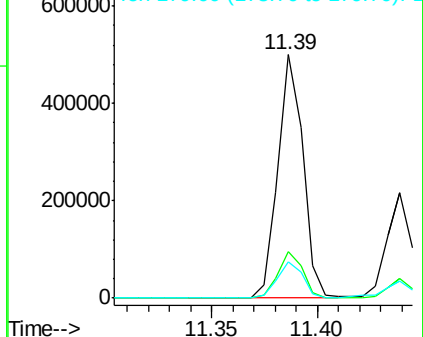


#71  
Phenanthrene  
Concen: 11.234 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

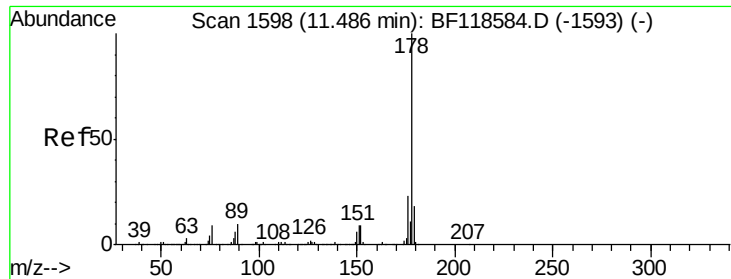
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 412958 |       |       |
| 176     | 18.9  |        | 16.5  | 24.7  |
| 179     | 15.1  |        | 13.3  | 19.9  |



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E







#72

Anthracene

Concen: 4.713 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA\_F

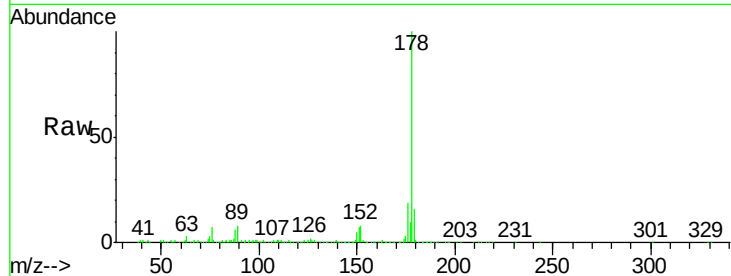
ClientSampleId :

BU-01-012920

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 171418 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.8  | 15.8  | 23.8   |
| 179       | 15.7  | 13.3  | 19.9   |

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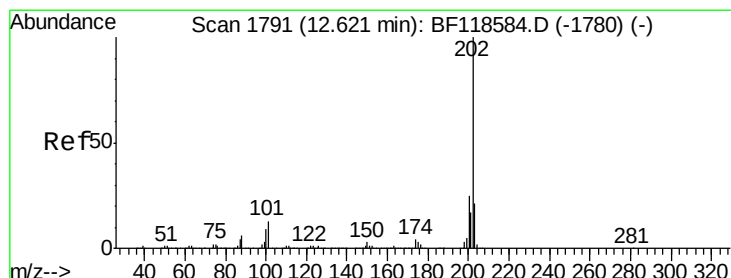
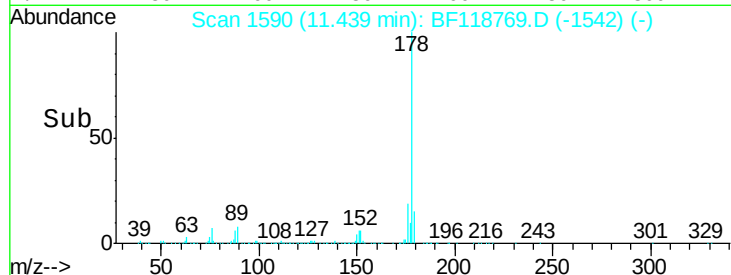
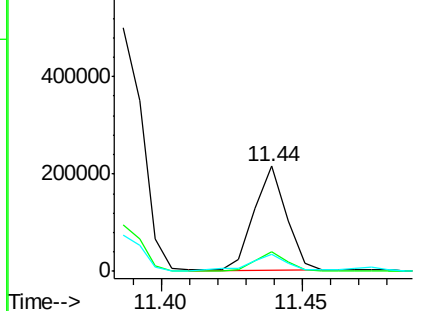
mohammad  
2/3/2020 7:57:34 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 19.801 ng

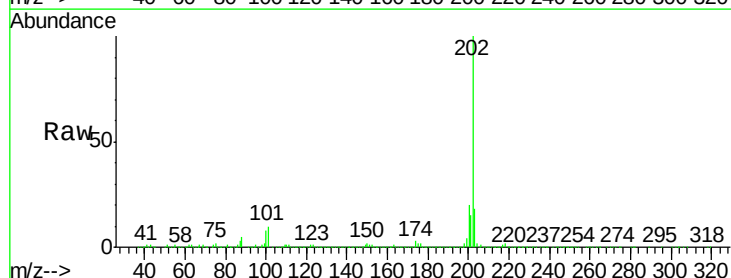
RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

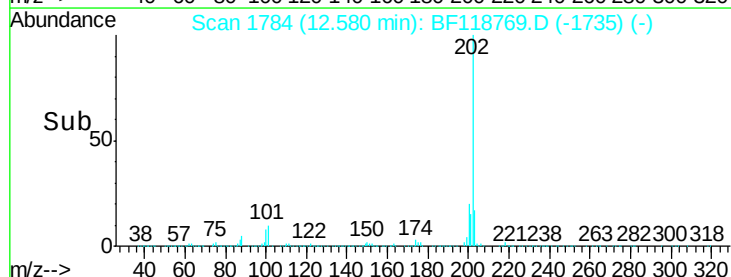
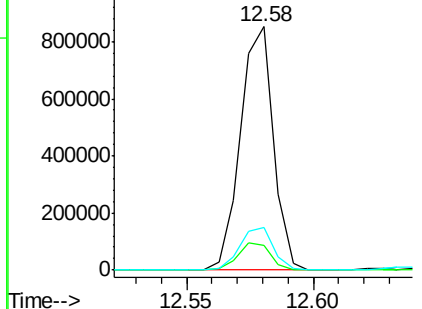
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 767656 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.9   | 0.0   | 32.1   |
| 203       | 17.6  | 0.0   | 38.9   |

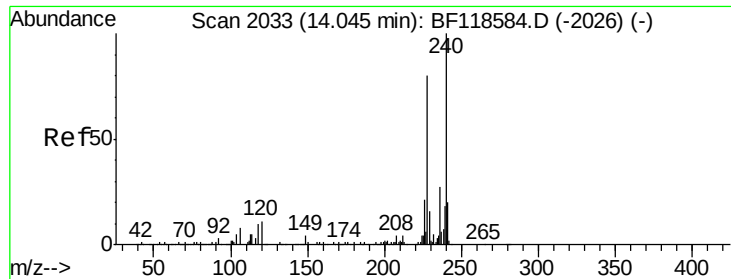


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





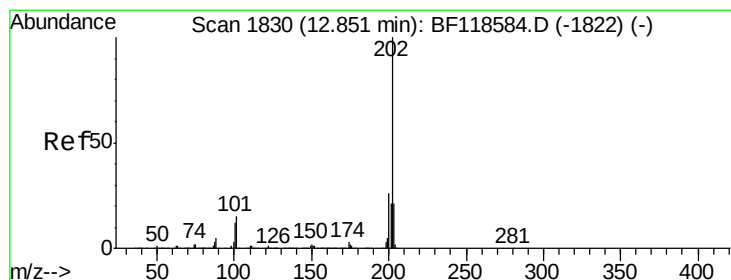
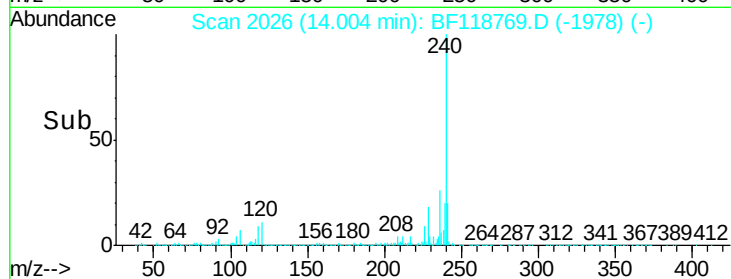
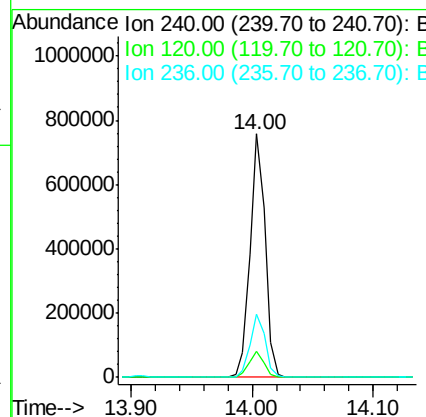
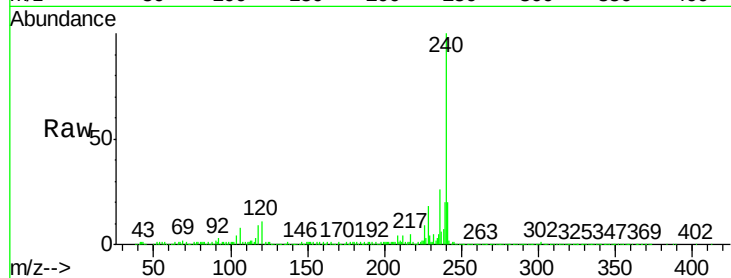
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.7  | 7.6   | 11.4  |
| 236     | 25.9  | 21.0  | 31.4  |

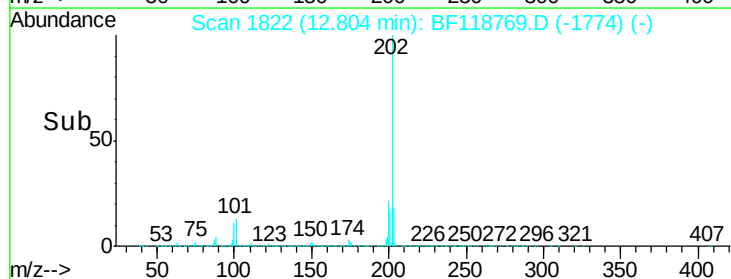
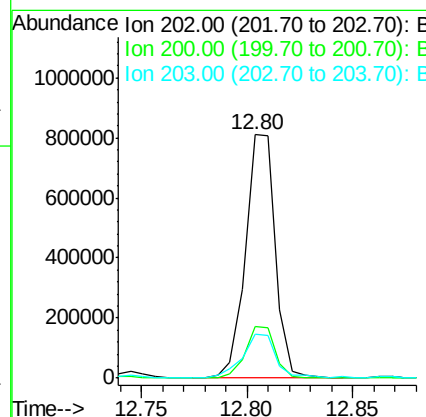
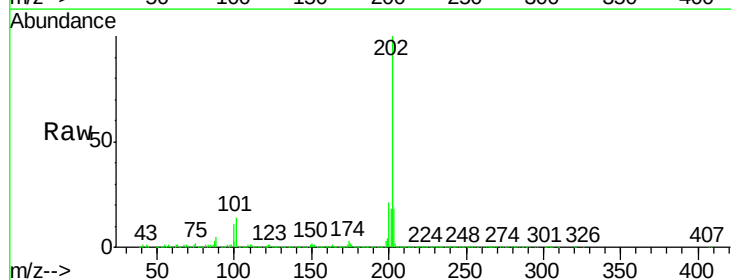
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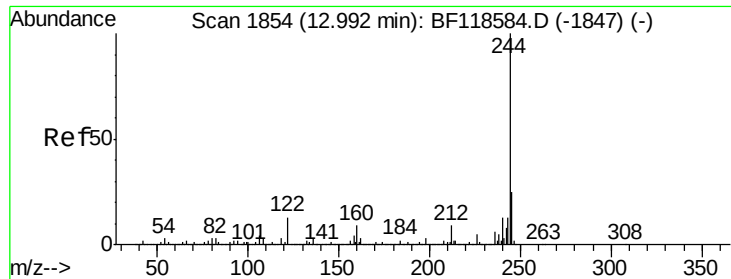
mohammad  
2/3/2020 7:57:34 AM



#78  
Pyrene  
Concen: 17.479 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 18.1  | 27.1  |
| 203     | 18.2  | 15.2  | 22.8  |





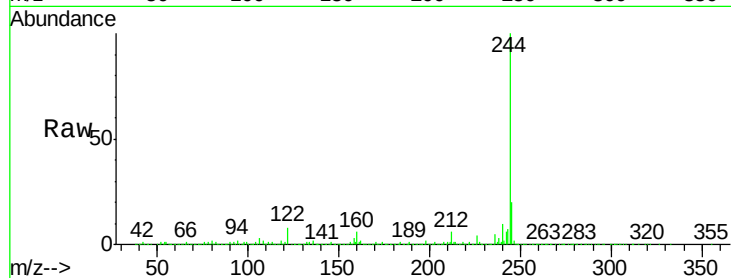
#79  
 Terphenyl-d14  
 Concen: 40.171 ng  
 RT: 12.95 min Scan# 1847  
 Delta R.T. -0.01 min  
 Lab File: BF118769.D  
 Acq: 30 Jan 2020 23:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-01-012920

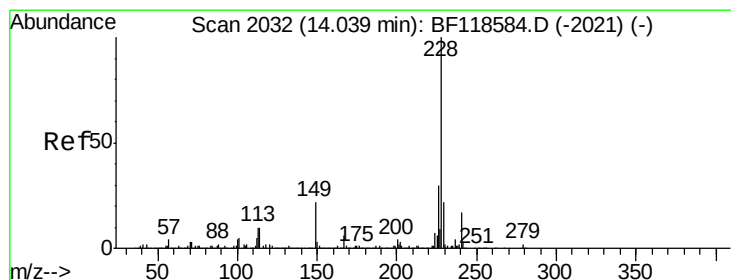
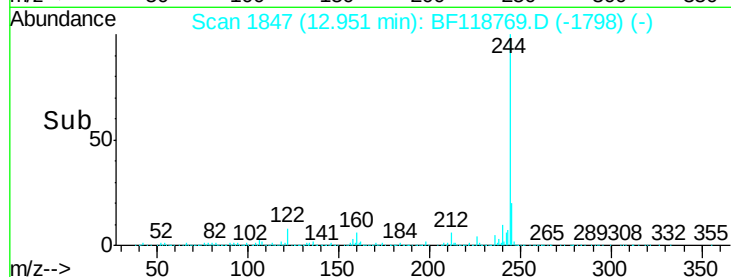
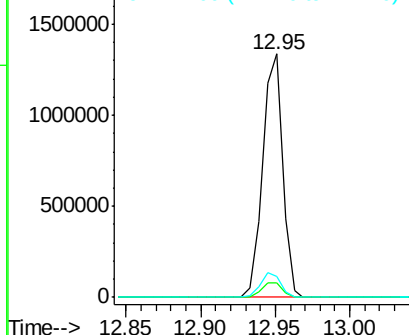
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.2   | 6.3   | 9.5#  |
| 122     | 8.5   | 9.2   | 13.8# |

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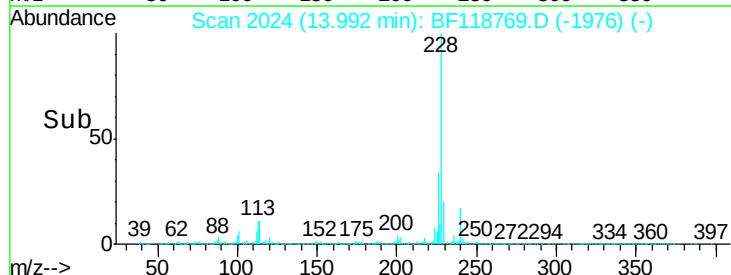
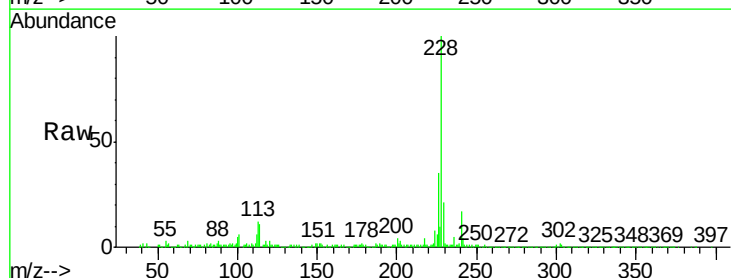
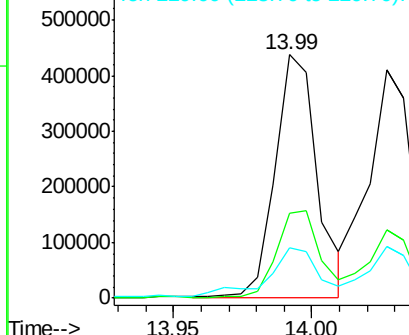
Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

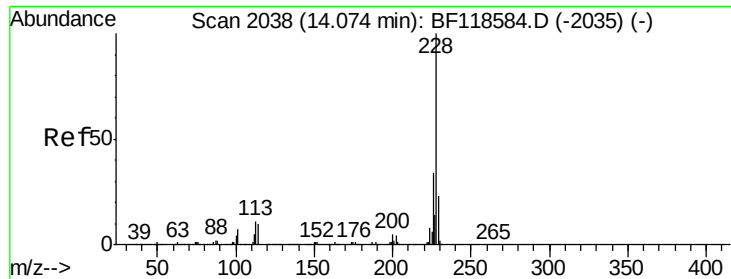


#81  
 Benzo(a)anthracene  
 Concen: 11.690 ng m  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.02 min  
 Lab File: BF118769.D  
 Acq: 30 Jan 2020 23:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.8  | 22.6  | 34.0# |
| 229     | 20.9  | 16.6  | 25.0  |

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





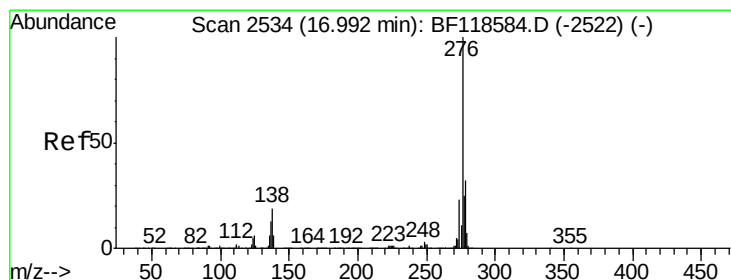
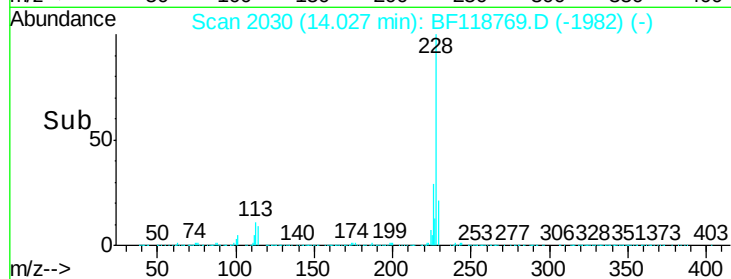
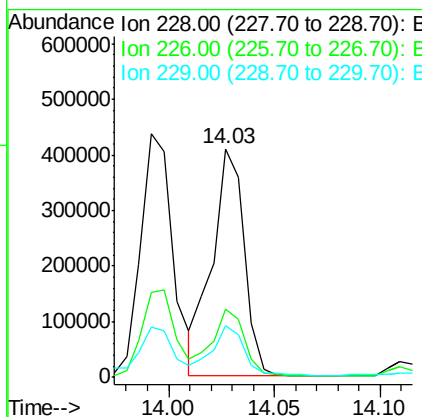
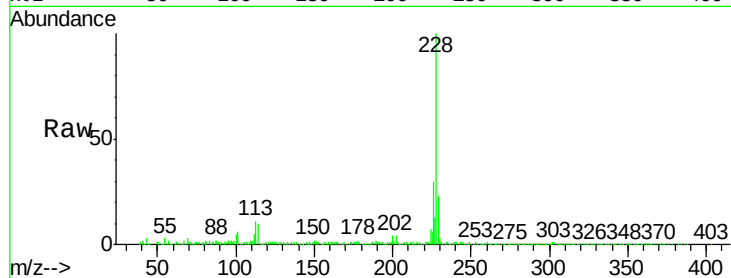
#83  
Chrysene  
Concen: 11.355 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 433362 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.1  | 25.6  | 38.4   |
| 229       | 22.6  | 17.1  | 25.7   |

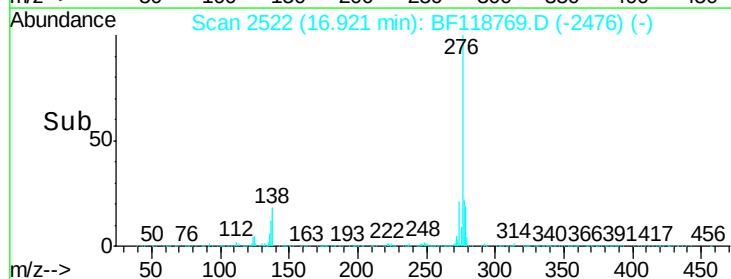
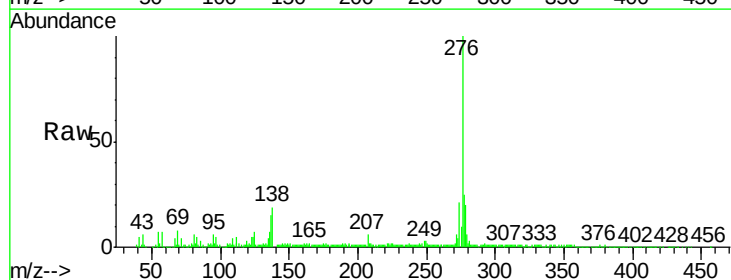
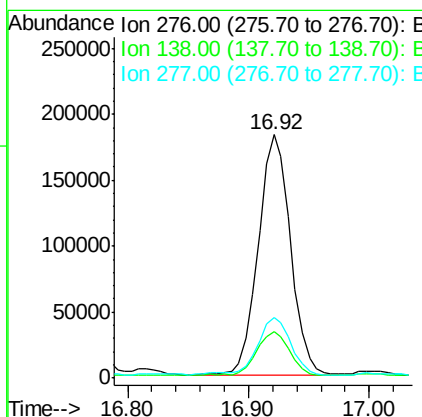
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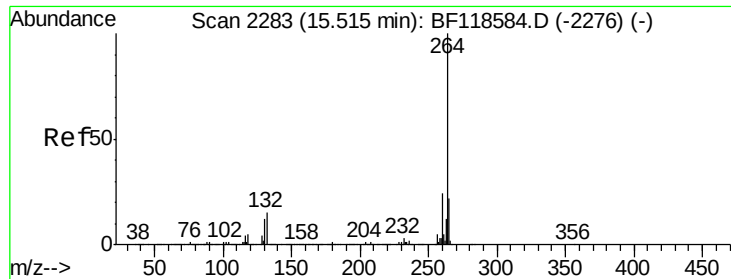
mohammad  
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#86  
Indeno(1,2,3-cd)pyrene  
Concen: 10.246 ng  
RT: 16.92 min Scan# 2522  
Delta R.T. -0.03 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 339771 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.5  | 18.2  | 27.4   |
| 277       | 26.2  | 20.4  | 30.6   |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA\_F

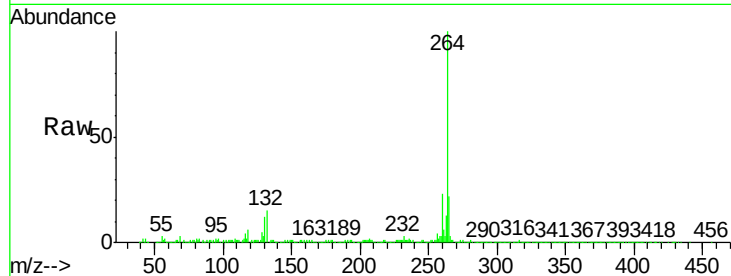
ClientSampleId :

BU-01-012920

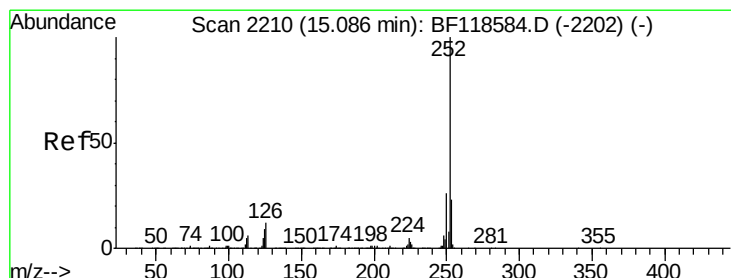
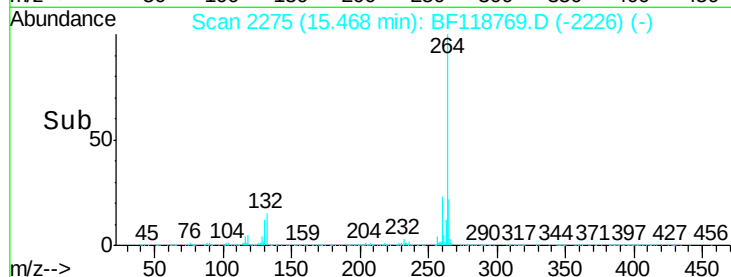
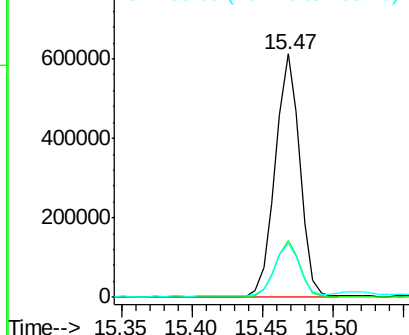
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 742350 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.3  | 18.6  | 28.0   |
| 265       | 22.1  | 17.0  | 25.6   |

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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 17.034 ng m

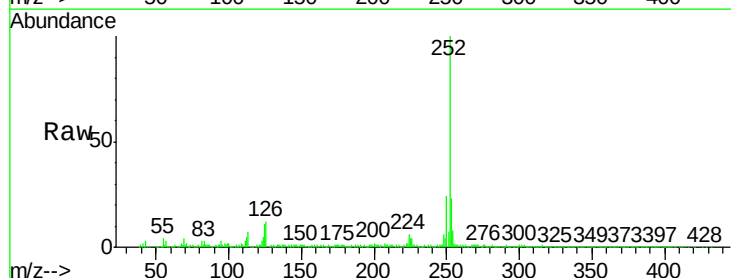
RT: 15.04 min Scan# 2203

Delta R.T. -0.01 min

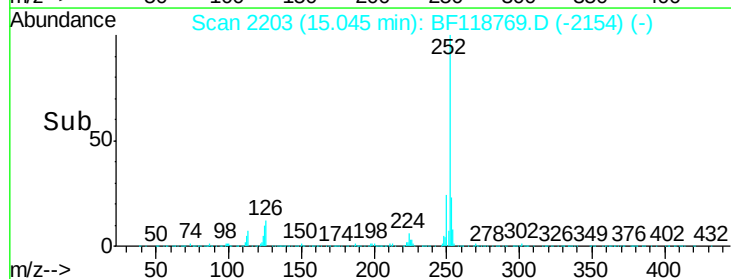
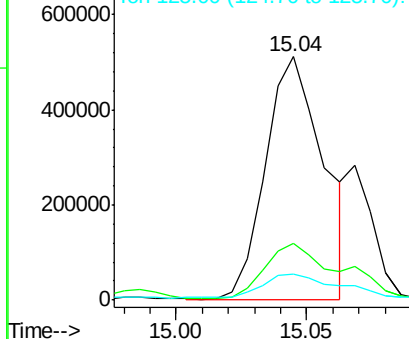
Lab File: BF118769.D

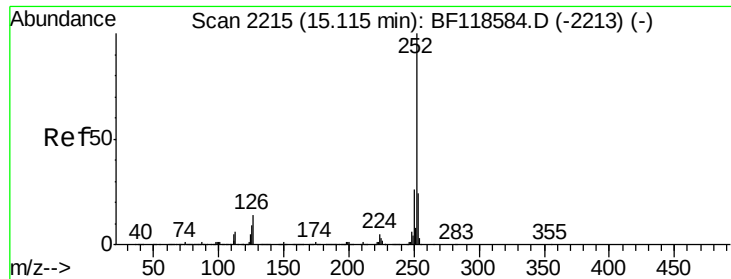
Acq: 30 Jan 2020 23:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 794858 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 18.2  | 27.4   |
| 125       | 10.9  | 7.7   | 11.5   |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





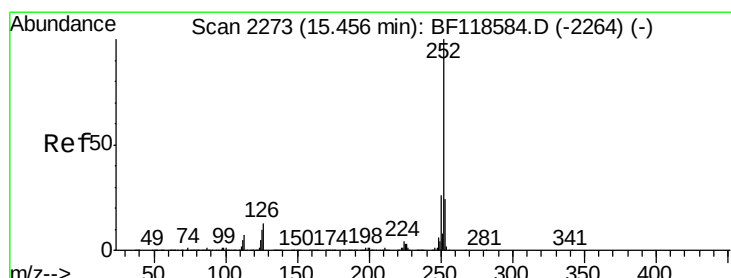
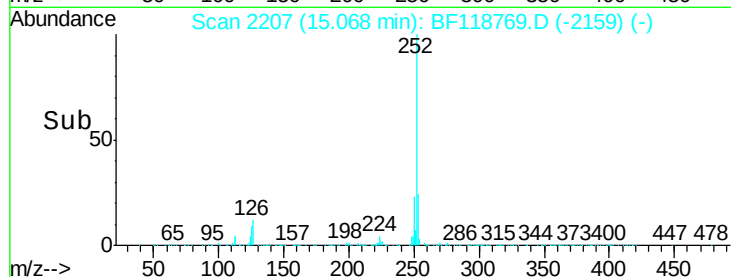
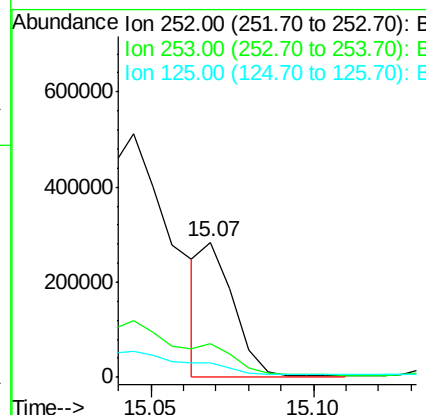
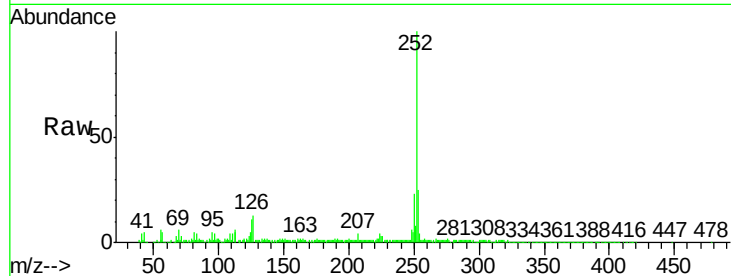
#89  
Benzo(k)fluoranthene  
Concen: 4.541 ng m  
RT: 15.07 min Scan# 2207  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 18.4  | 27.6  |
| 125     | 10.8  | 8.1   | 12.1  |

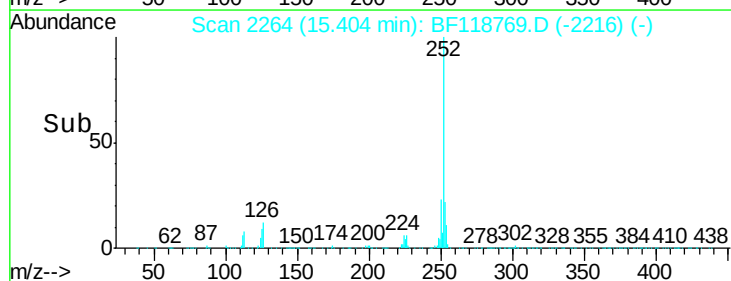
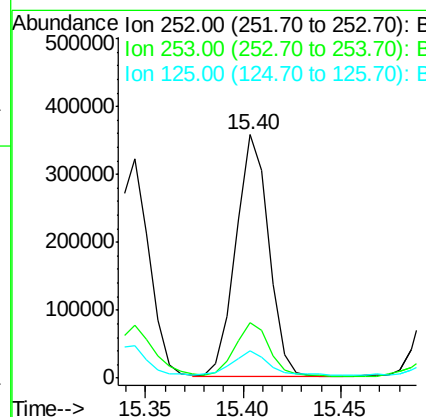
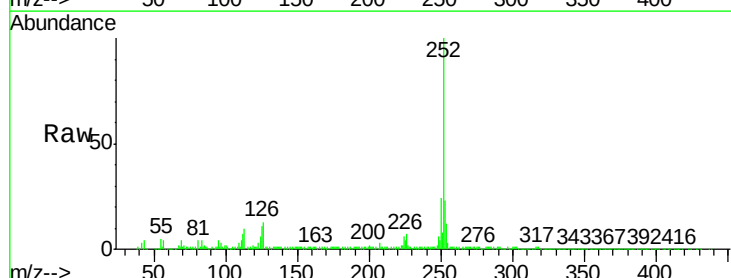
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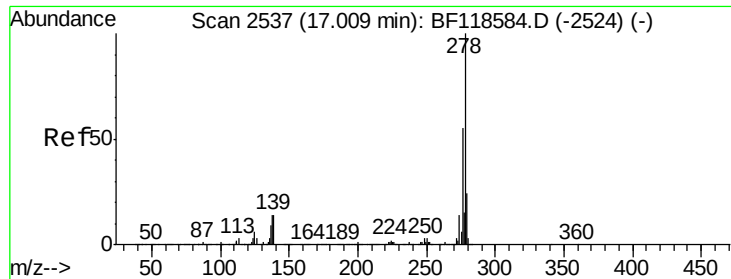
mohammad  
2/3/2020 7:57:34 AM



#90  
Benzo(a)pyrene  
Concen: 10.322 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.2  | 27.4  |
| 125     | 11.2  | 8.3   | 12.5  |





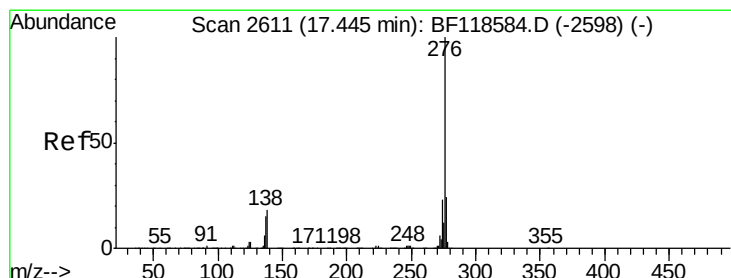
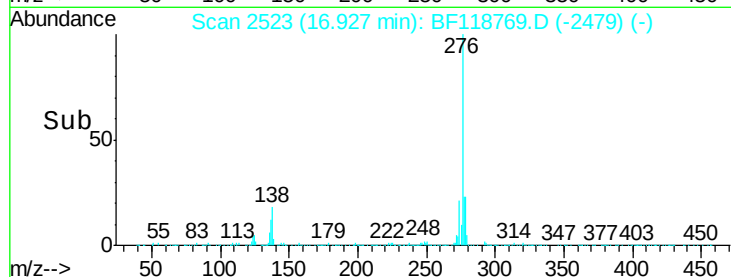
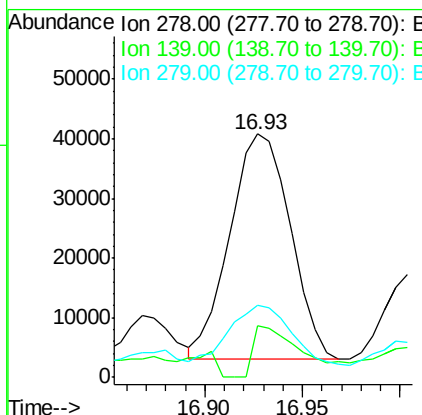
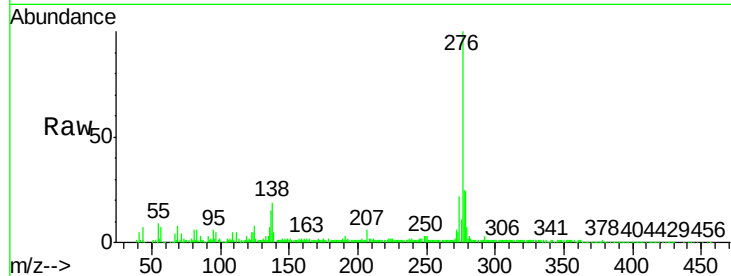
#91  
Dibenzo(a,h)anthracene  
Concen: 2.270 ng  
RT: 16.93 min Scan# 2523  
Delta R.T. -0.04 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-012920

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.3  | 11.8  | 17.6# |
| 279     | 29.8  | 19.1  | 28.7# |

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#92  
Benzo(g,h,i)perylene  
Concen: 10.271 ng  
RT: 17.37 min Scan# 2598  
Delta R.T. -0.02 min  
Lab File: BF118769.D  
Acq: 30 Jan 2020 23:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 19.0  | 28.6  |
| 138     | 19.5  | 15.4  | 23.2  |

