

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\  
 Data File : BF118866.D  
 Acq On : 10 Feb 2020 12:36  
 Operator : CG/JU  
 Sample : L1468-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP11-EP2-3

Manual Integrations  
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 2/13/2020 10:28:30 AM

Quant Time: Feb 11 00:26:59 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 03 16:26:03 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 208657   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 763647   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.85  | 164  | 447466   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 837642   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.98 | 240  | 680442   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.42 | 264  | 648833   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.44  | 112 | 1100944 | 99.88 | ng | 0.00  |
| 7) Phenol-d6                | 6.45  | 99  | 1354318 | 98.98 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 886328  | 69.18 | ng | 0.00  |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330 | 504651  | 94.26 | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 9.17  | 172 | 1788725 | 71.46 | ng | -0.01 |
| 79) Terphenyl-d14           | 12.92 | 244 | 2223324 | 67.12 | ng | 0.00  |

|                            |       |     |          |         |    |    |
|----------------------------|-------|-----|----------|---------|----|----|
| Target Compounds           |       |     |          | Qvalue  |    |    |
| 31) Naphthalene            | 8.12  | 128 | 546526   | 15.648  | ng | 97 |
| 37) 2-Methylnaphthalene    | 8.81  | 142 | 209999   | 8.669   | ng | 98 |
| 38) 1-Methylnaphthalene    | 8.90  | 142 | 179608   | 7.882   | ng | 99 |
| 46) 1,1'-Biphenyl          | 9.27  | 154 | 83837    | 2.709   | ng | 96 |
| 49) Acenaphthylene         | 9.71  | 152 | 270769   | 7.288   | ng | 98 |
| 50) Dimethylphthalate      | 9.56  | 163 | 78499    | 2.576   | ng | 98 |
| 52) Acenaphthene           | 9.88  | 154 | 252254   | 10.303  | ng | 99 |
| 55) Dibenzofuran           | 10.05 | 168 | 467589   | 13.215  | ng | 97 |
| 58) Fluorene               | 10.39 | 166 | 497094   | 18.675  | ng | 99 |
| 71) Phenanthrene           | 11.37 | 178 | 4923901  | 119.474 | ng | 97 |
| 72) Anthracene             | 11.42 | 178 | 1403060  | 34.221  | ng | 98 |
| 73) Carbazole              | 11.56 | 167 | 646180   | 17.959  | ng | 98 |
| 75) Fluoranthene           | 12.56 | 202 | 4721363  | 104.925 | ng | 98 |
| 78) Pyrene                 | 12.79 | 202 | 4267607  | 91.422  | ng | 96 |
| 81) Benzo(a)anthracene     | 13.97 | 228 | 2289643  | 56.548  | ng | 97 |
| 83) Chrysene               | 14.00 | 228 | 2149420  | 52.891  | ng | 98 |
| 86) Indeno(1,2,3-cd)pyrene | 16.86 | 276 | 947082   | 23.196  | ng | 95 |
| 88) Benzo(b)fluoranthene   | 15.01 | 252 | 2252950m | 55.958  | ng |    |
| 89) Benzo(k)fluoranthene   | 15.03 | 252 | 538524m  | 15.360  | ng |    |
| 90) Benzo(a)pyrene         | 15.37 | 252 | 1462484  | 42.445  | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 16.87 | 278 | 259154   | 8.472   | ng | 96 |
| 92) Benzo(g,h,i)perylene   | 17.30 | 276 | 950019   | 32.295  | ng | 99 |

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

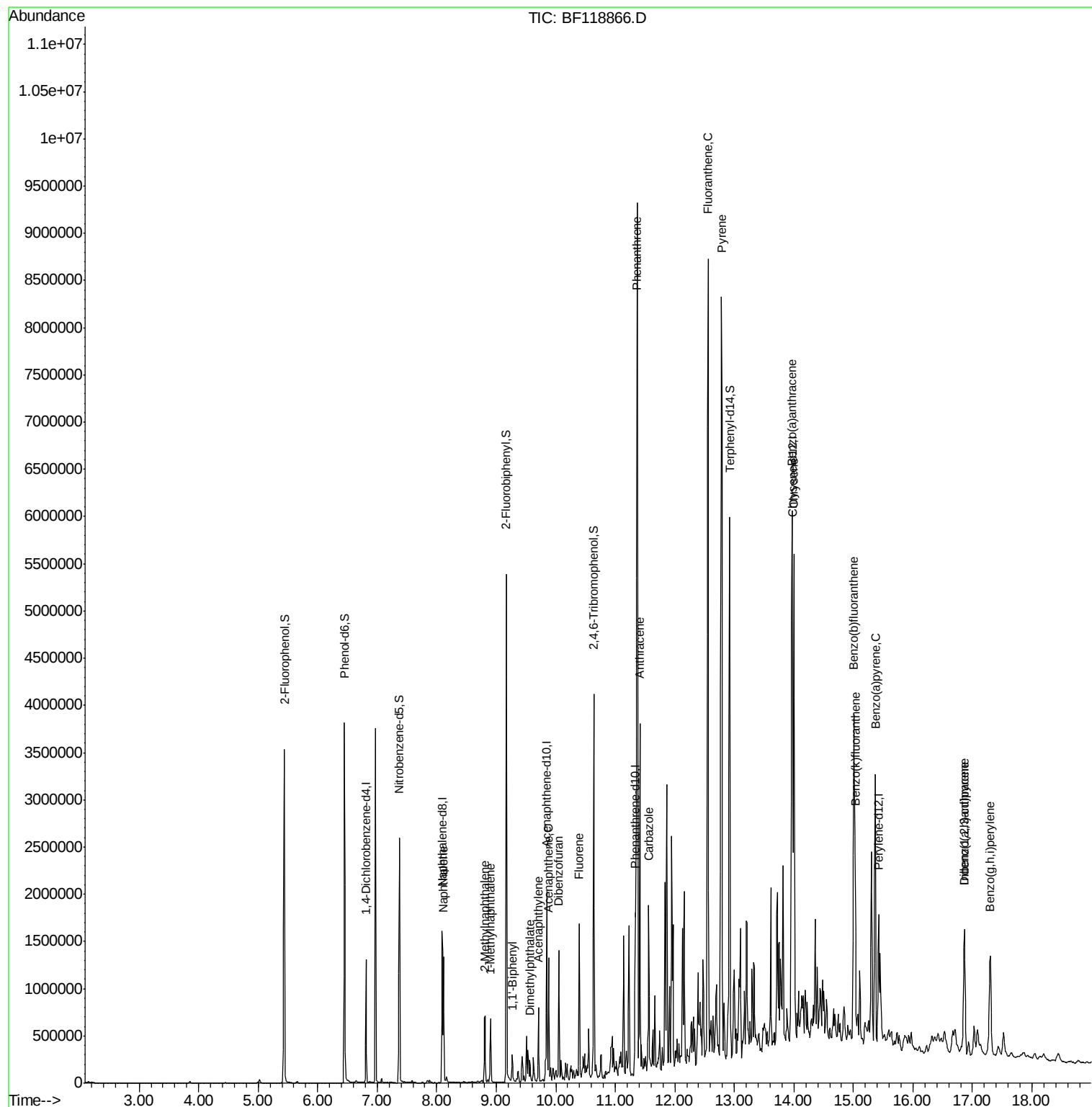
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\  
Data File : BF118866.D  
Acq On : 10 Feb 2020 12:36  
Operator : CG/JU  
Sample : L1468-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

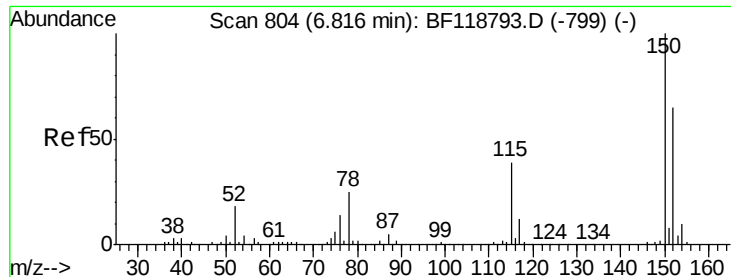
Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

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Quant Time: Feb 11 00:26:59 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 03 16:26:03 2020  
Response via : Initial Calibration





#1

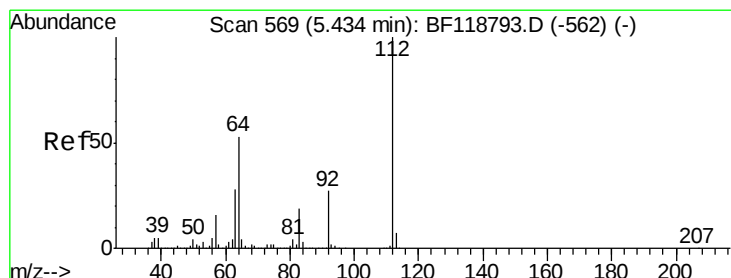
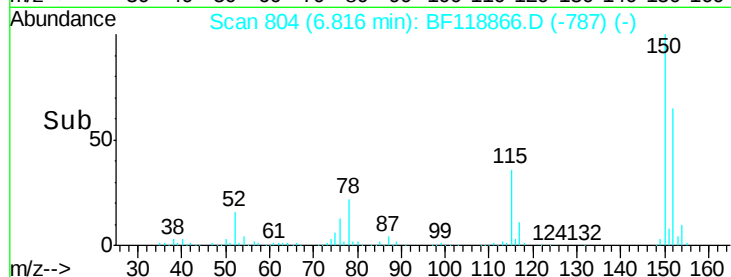
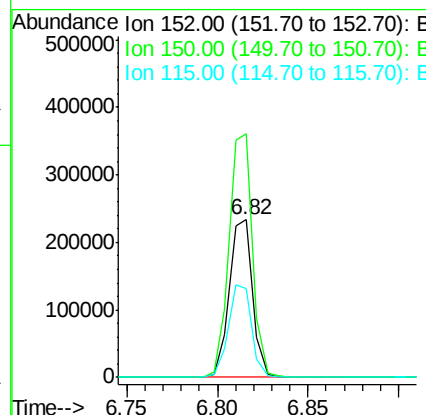
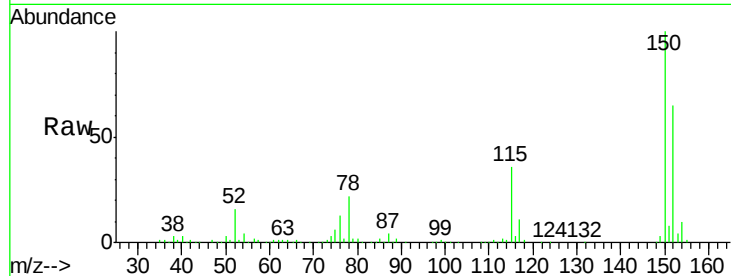
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 804  
Delta R.T. -0.00 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.8 | 123.6 | 185.4 |
| 115     | 56.5  | 48.2  | 72.2  |

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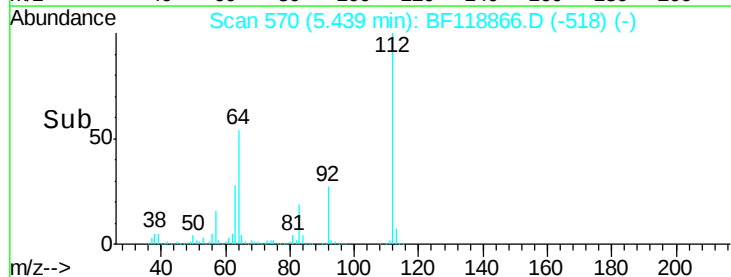
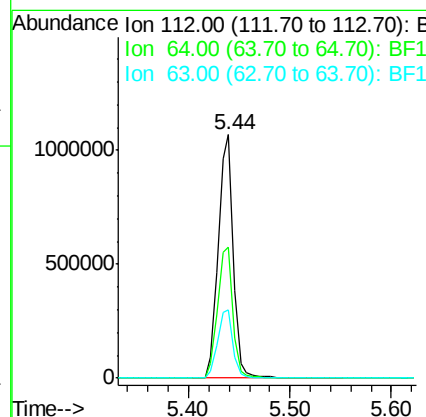
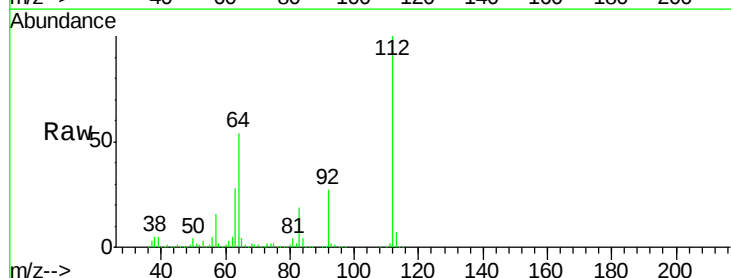
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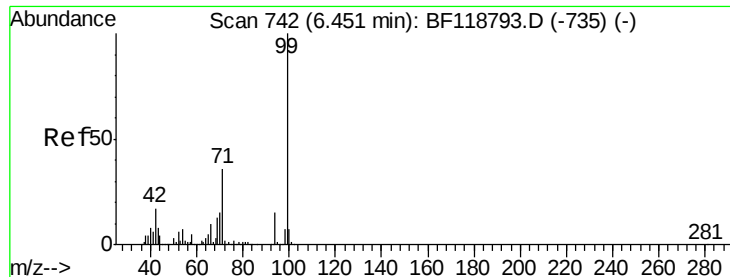


#5

2-Fluorophenol  
Concen: 99.877 ng  
RT: 5.44 min Scan# 570  
Delta R.T. 0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.7  | 42.6  | 63.8  |
| 63      | 28.1  | 22.2  | 33.4  |





#7

Phenol-d6

Concen: 98.975 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Instrument :

BNA\_F

ClientSampleId :

TP11-EP2-3

Tot Ion: 99 Resp: 1354318

Ion Ratio Lower Upper

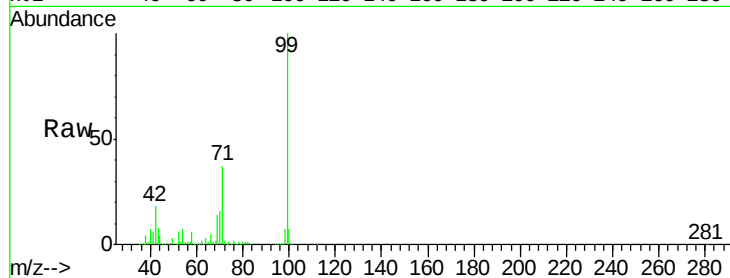
99 100

42 17.6 13.4 20.0

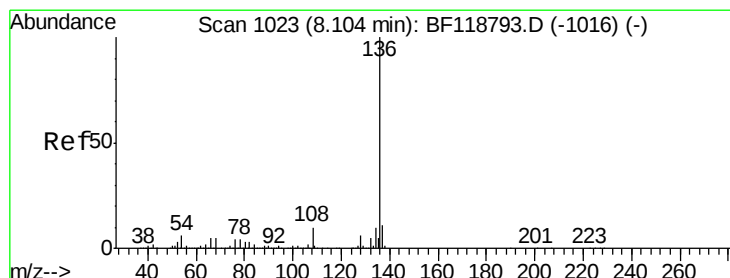
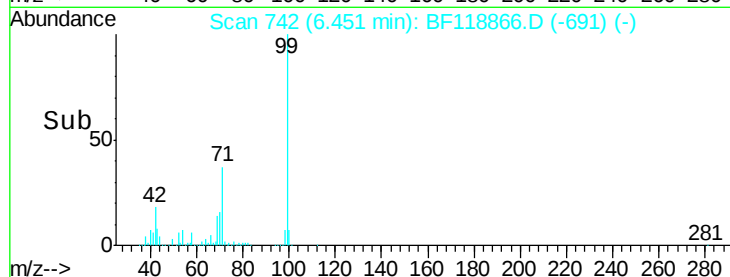
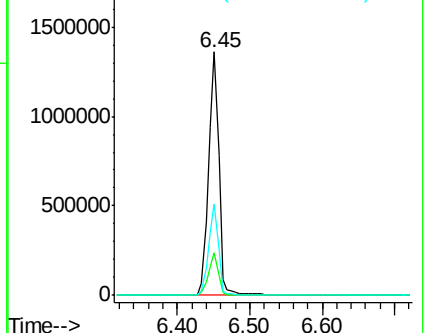
71 37.3 29.0 43.6

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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Tgt Ion: 136 Resp: 763647

Ion Ratio Lower Upper

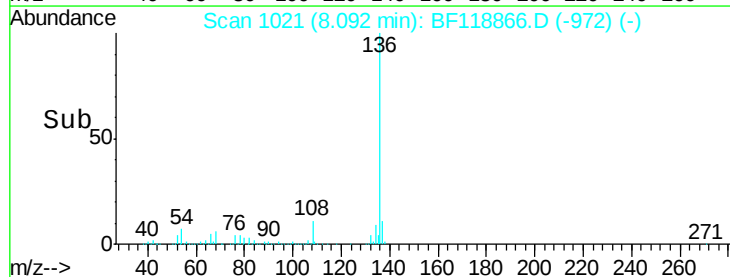
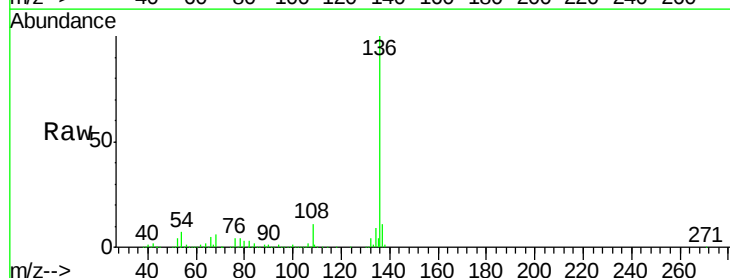
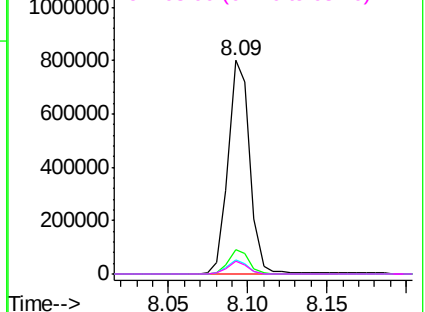
136 100

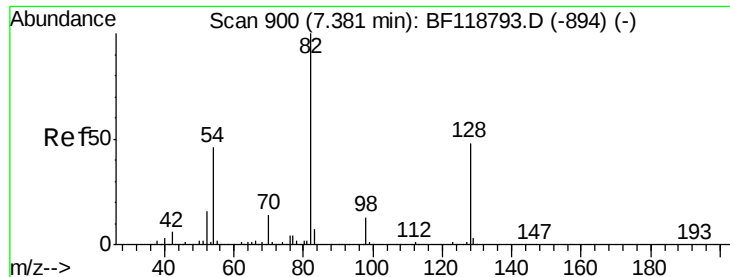
137 11.5 8.7 13.1

54 6.6 5.0 7.6

68 5.9 4.2 6.4

Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1





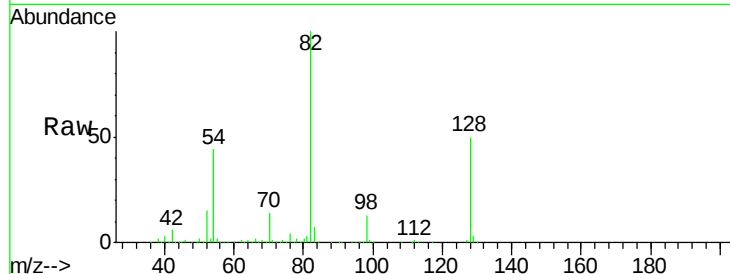
#23  
Nitrobenzene-d5  
Concen: 69.181 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

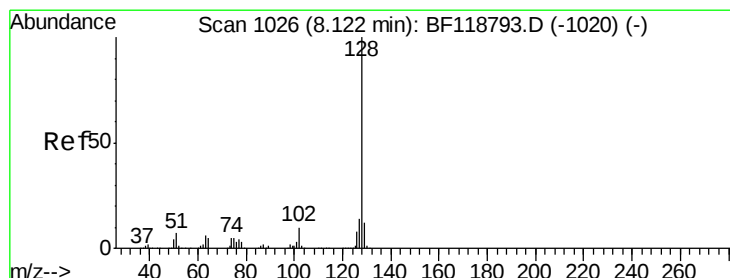
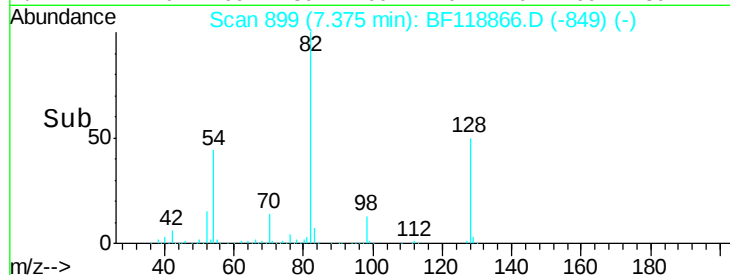
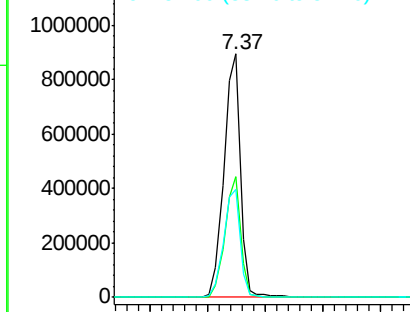
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.5  | 38.5  | 57.7  |
| 54      | 44.1  | 36.7  | 55.1  |

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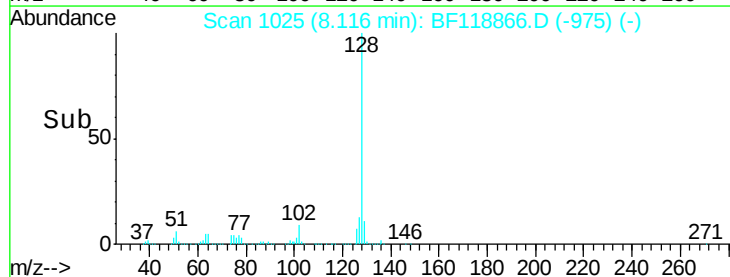
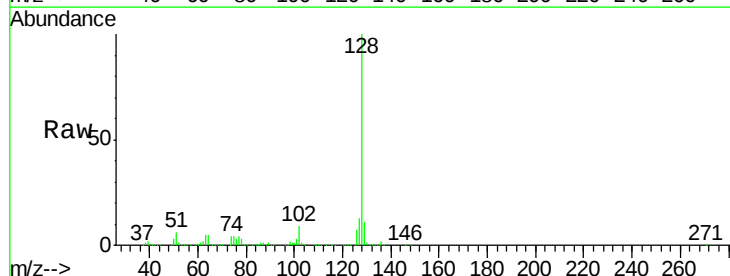
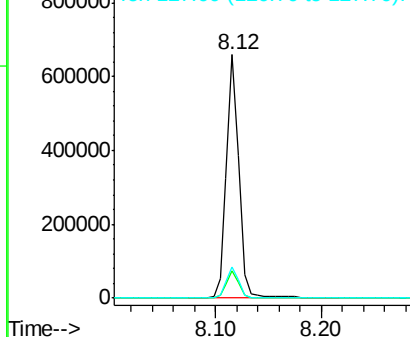
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

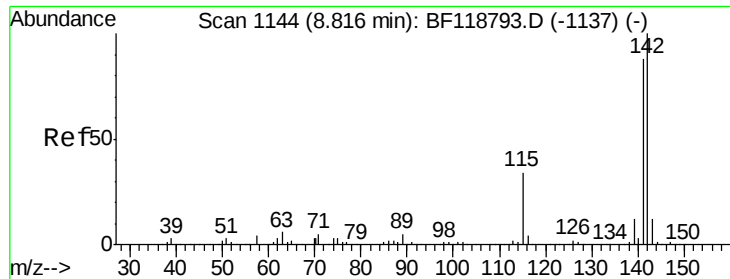


#31  
Naphthalene  
Concen: 15.648 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 9.4   | 14.2  |
| 127     | 12.8  | 11.3  | 16.9  |

Abundance Ion 128.00 (127.70 to 128.70): BF1  
Ion 129.00 (128.70 to 129.70): BF1  
Ion 127.00 (126.70 to 127.70): BF1





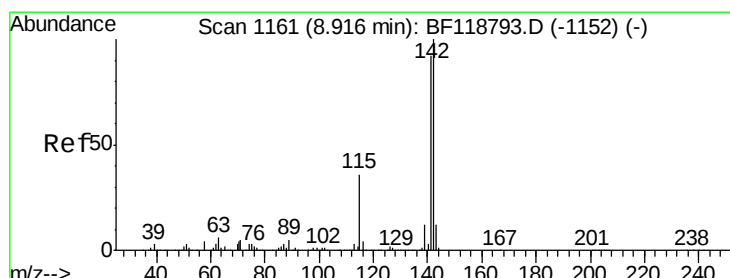
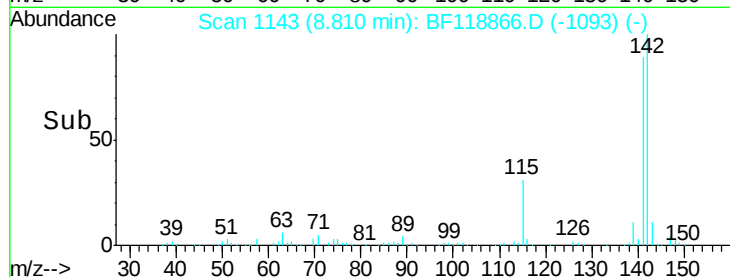
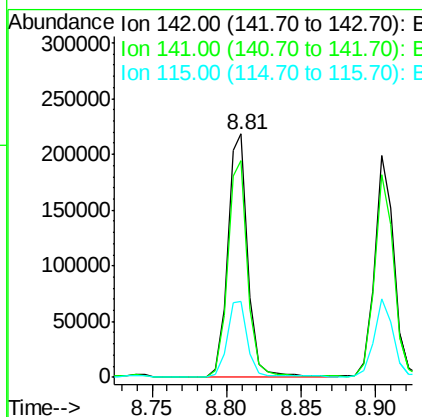
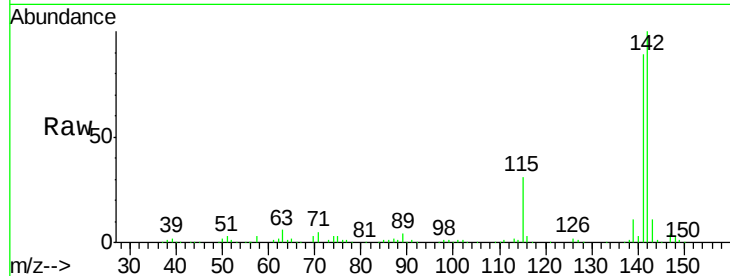
#37  
2-Methylnaphthalene  
Concen: 8.669 ng  
RT: 8.81 min Scan# 1143  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampled :  
TP11-EP2-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.8  | 70.1  | 105.1 |
| 115     | 31.3  | 27.3  | 40.9  |

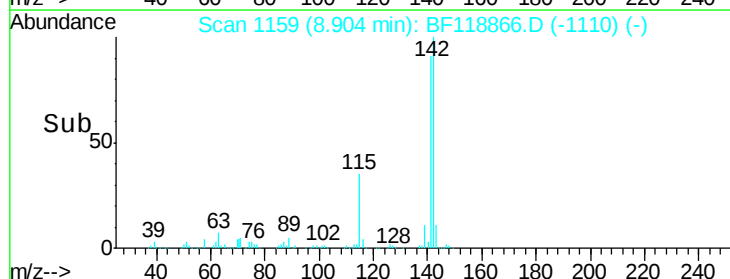
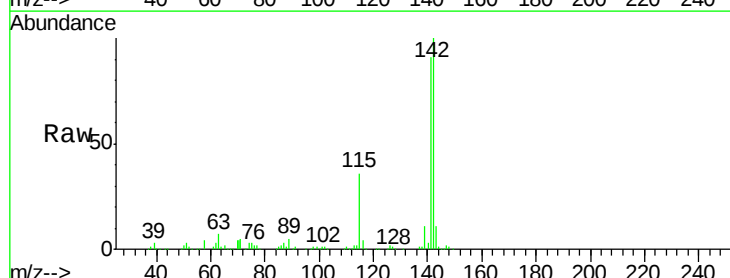
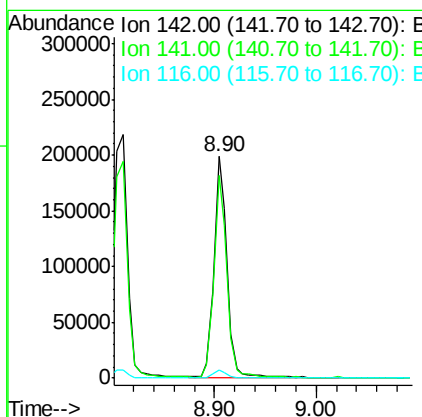
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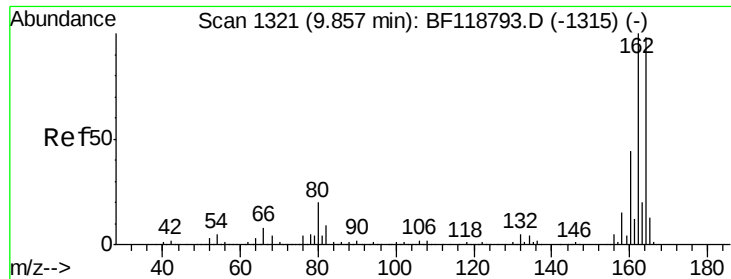
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#38  
1-Methylnaphthalene  
Concen: 7.882 ng  
RT: 8.90 min Scan# 1159  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.2  | 73.8  | 110.6 |
| 116     | 3.6   | 3.0   | 4.4   |





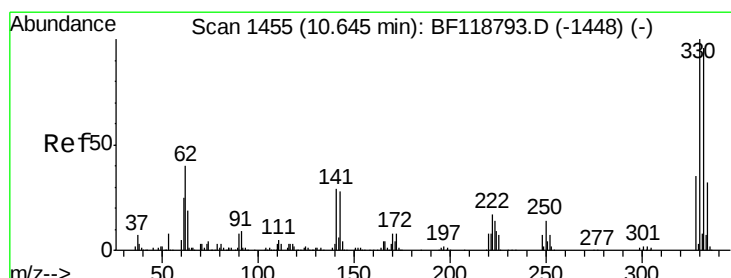
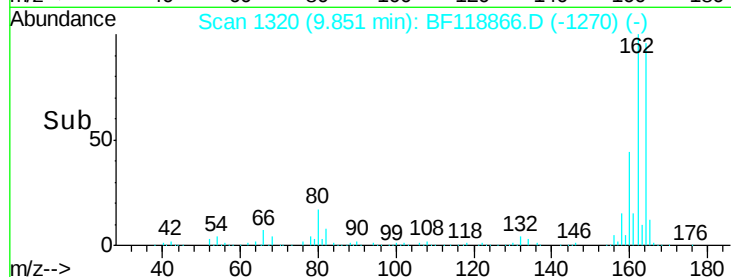
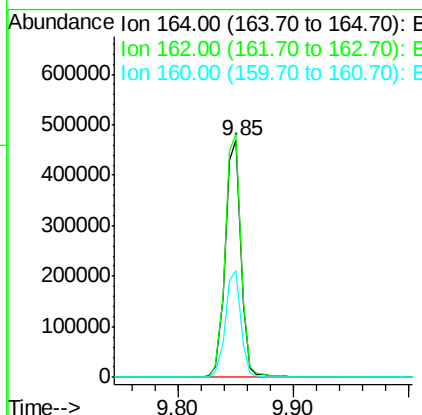
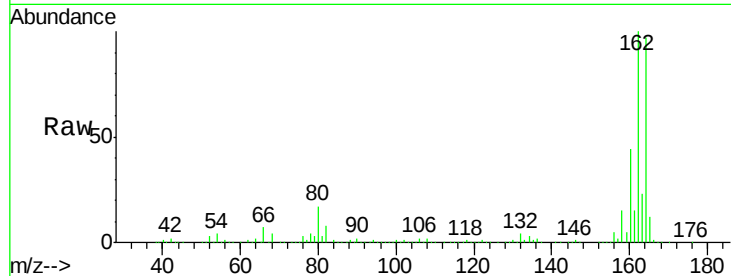
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Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.8 | 81.4 | 122.2 |       |
| 160     | 45.0  | 35.6 | 53.4  |       |

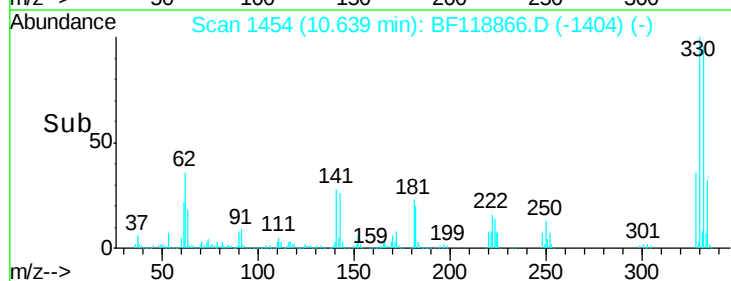
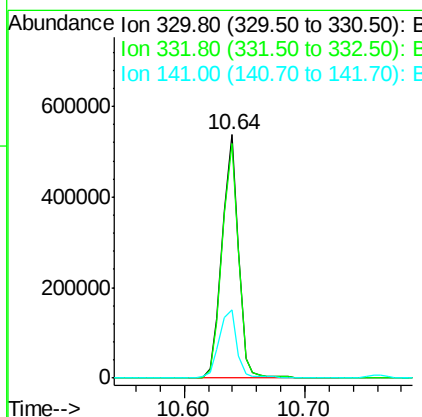
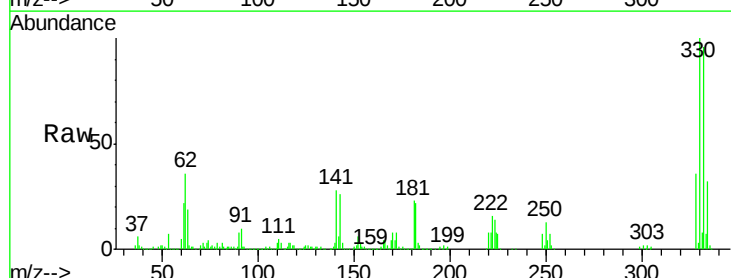
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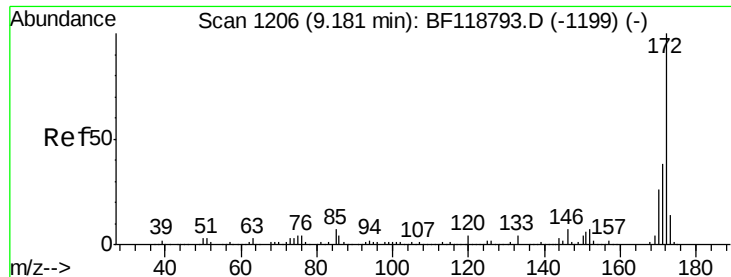
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#42  
2,4,6-Tribromophenol  
Concen: 94.256 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.0  | 77.3 | 115.9 |       |
| 141     | 30.2  | 22.4 | 33.6  |       |





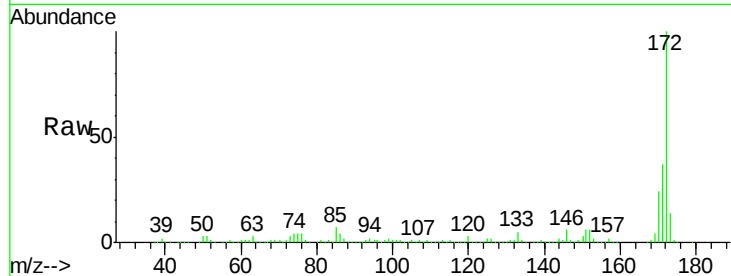
#45  
2-Fluorobiphenyl  
Concen: 71.462 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

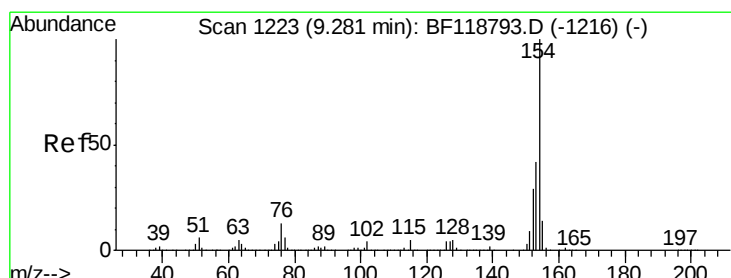
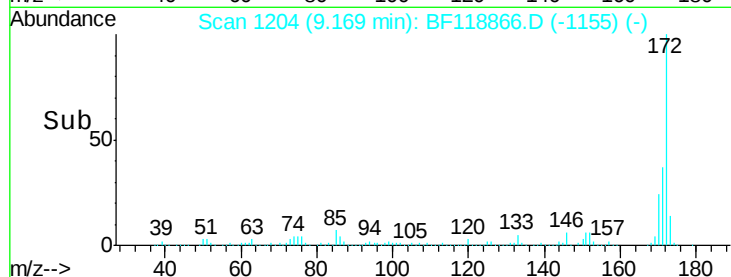
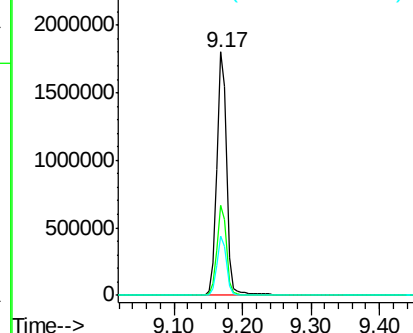
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 30.8  | 46.2  |
| 170     | 24.2  | 20.5  | 30.7  |

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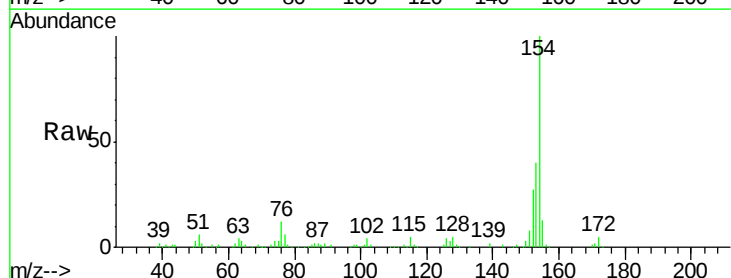


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

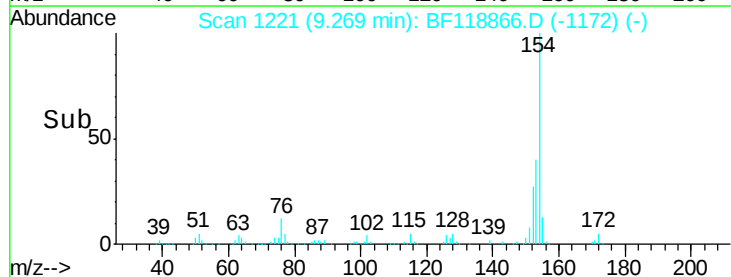
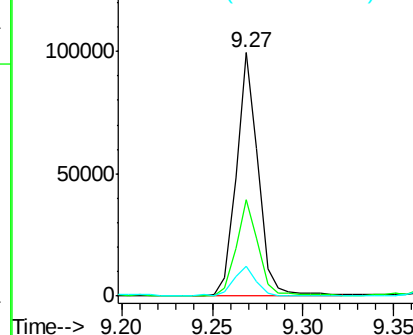


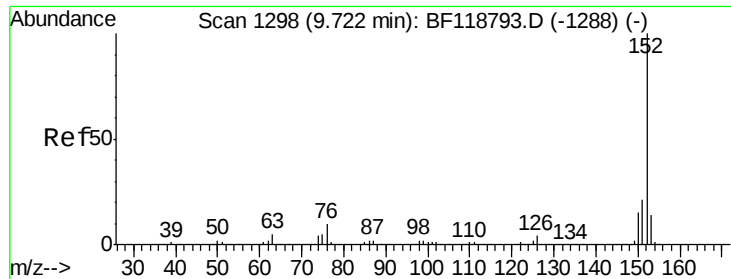
#46  
1,1'-Biphenyl  
Concen: 2.709 ng  
RT: 9.27 min Scan# 1221  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 39.7  | 22.4  | 62.4  |
| 76      | 12.2  | 0.0   | 32.7  |



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





#49

Acenaphthylene

Concen: 7.288 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Instrument :

BNA\_F

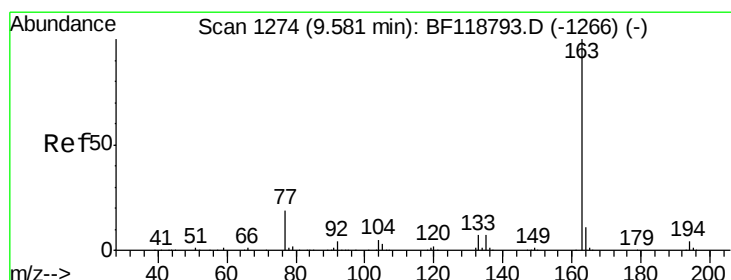
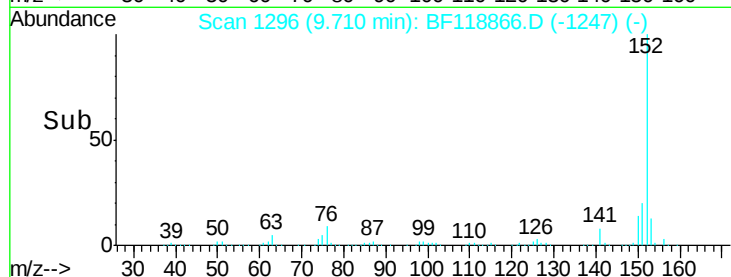
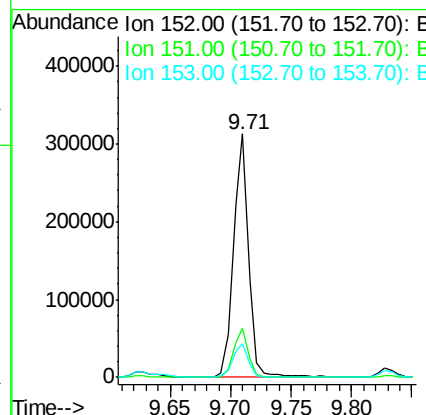
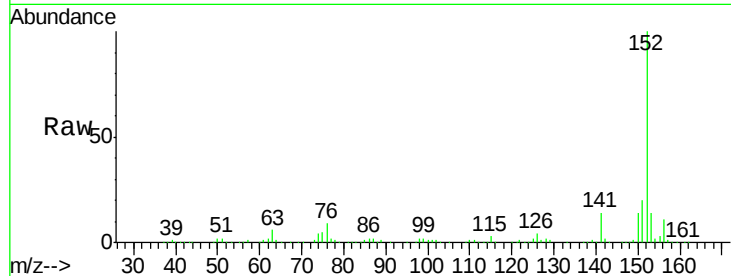
ClientSampleId :

TP11-EP2-3

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 270769 |       |       |
| 151     | 20.1  |        | 17.1  | 25.7  |
| 153     | 14.1  |        | 11.0  | 16.4  |

Manual Integrations  
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#50

Dimethylphthalate

Concen: 2.576 ng

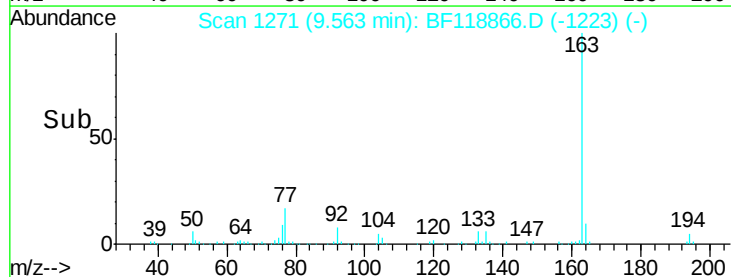
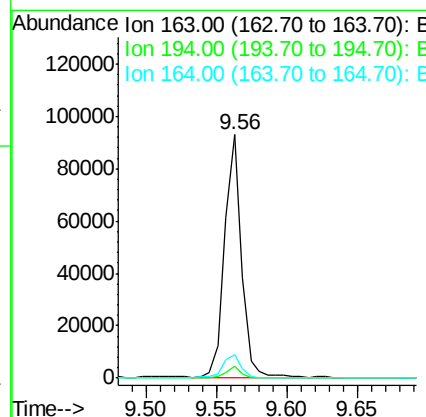
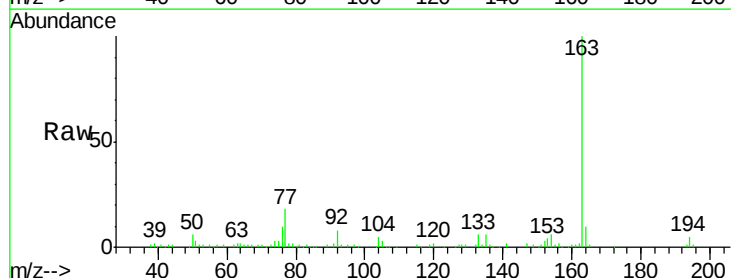
RT: 9.56 min Scan# 1271

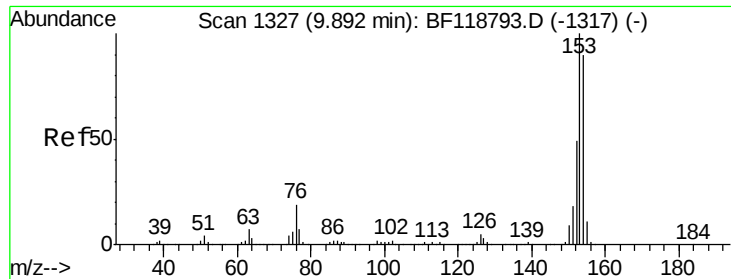
Delta R.T. -0.02 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 78499 |       |       |
| 194     | 4.7   |       | 3.6   | 5.4   |
| 164     | 9.7   |       | 8.7   | 13.1  |





#52

Acenaphthene

Concen: 10.303 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Instrument :

BNA\_F

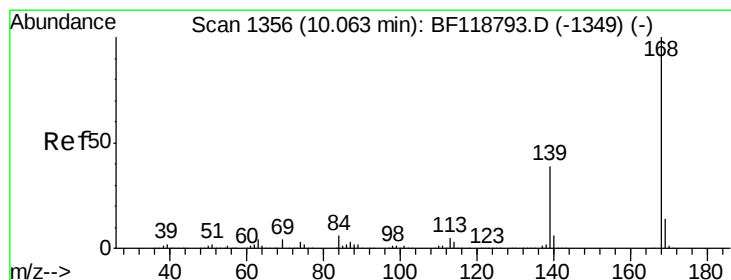
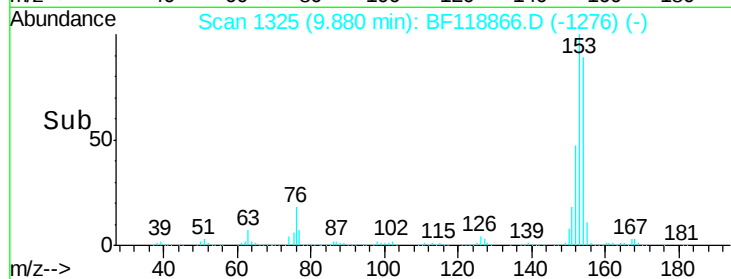
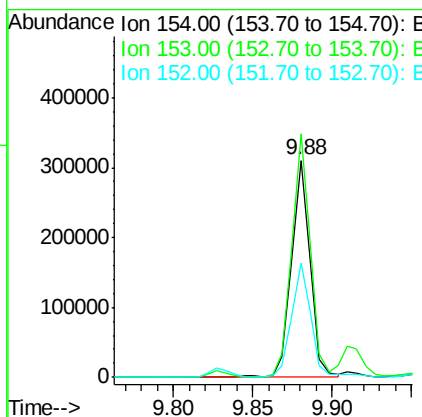
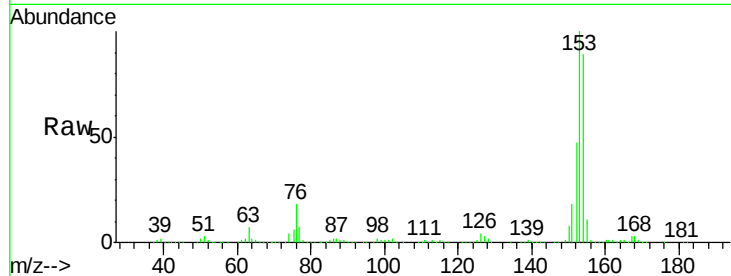
ClientSampleId :

TP11-EP2-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 252254 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 112.0 | 89.4  | 134.0  |
| 152       | 52.9  | 43.6  | 65.4   |

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#55

Dibenzofuran

Concen: 13.215 ng

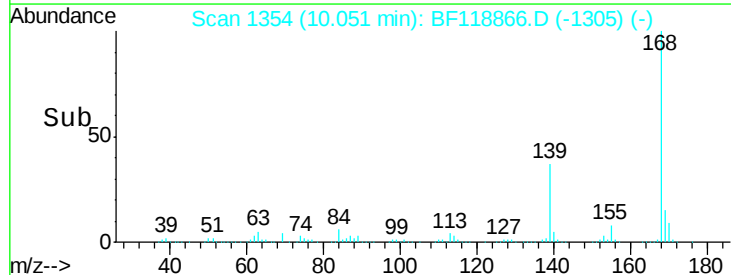
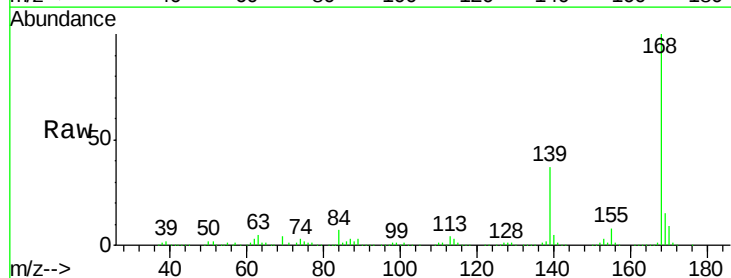
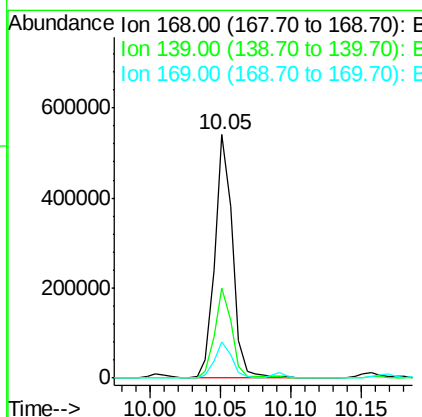
RT: 10.05 min Scan# 1354

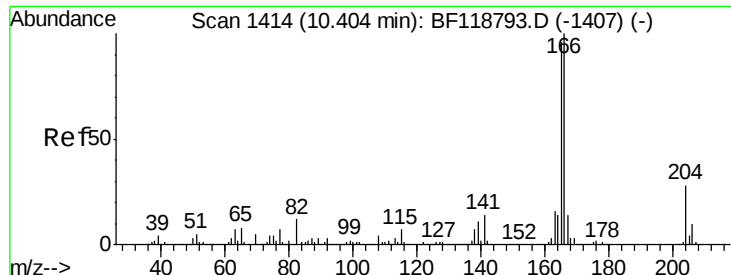
Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 467589 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 36.9  | 31.6  | 47.4   |
| 169       | 14.7  | 11.4  | 17.2   |





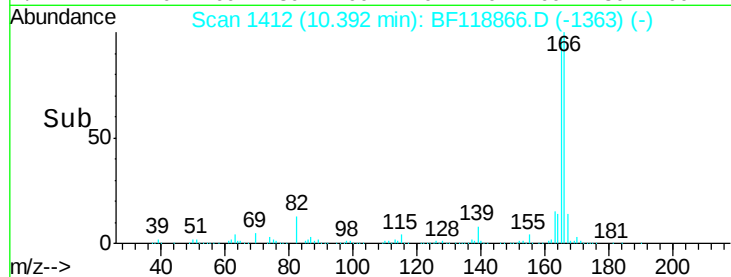
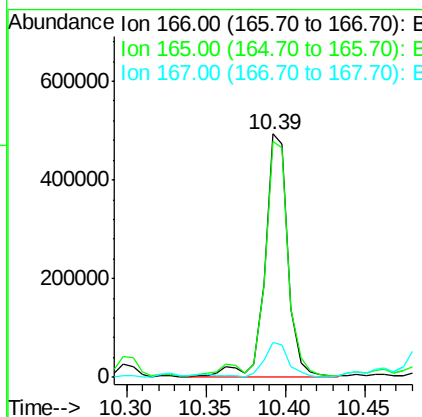
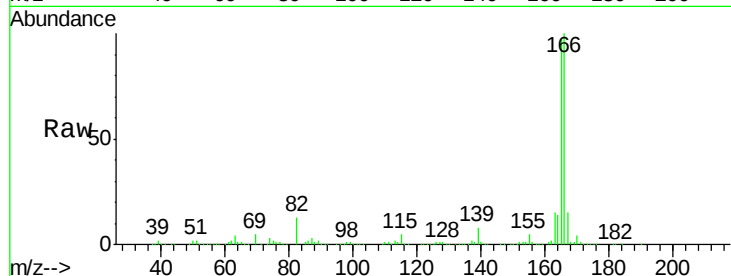
#58  
 Fluorene  
 Concen: 18.675 ng  
 RT: 10.39 min Scan# 1412  
 Delta R.T. -0.01 min  
 Lab File: BF118866.D  
 Acq: 10 Feb 2020 12:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP11-EP2-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.7  | 77.0  | 115.6 |
| 167     | 14.6  | 11.1  | 16.7  |

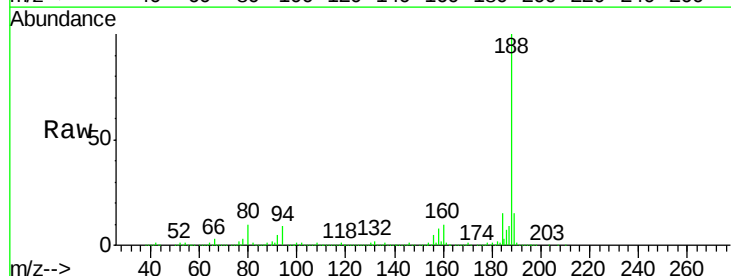
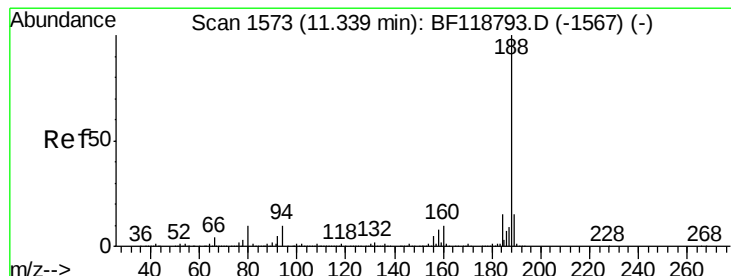
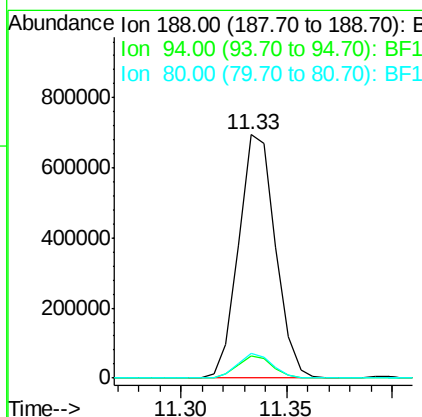
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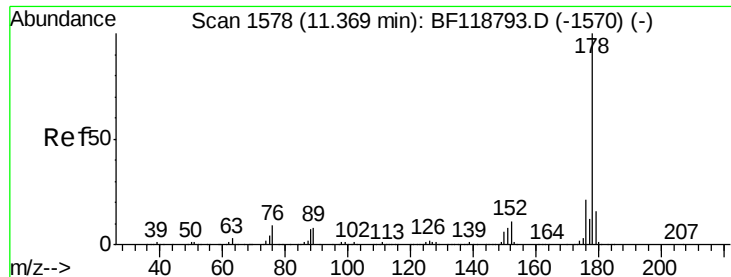
mohammad  
 2/13/2020 10:28:30 AM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. -0.01 min  
 Lab File: BF118866.D  
 Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.4   | 7.9   | 11.9  |
| 80      | 10.0  | 8.4   | 12.6  |





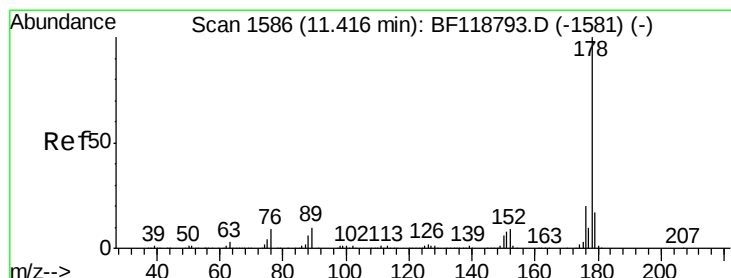
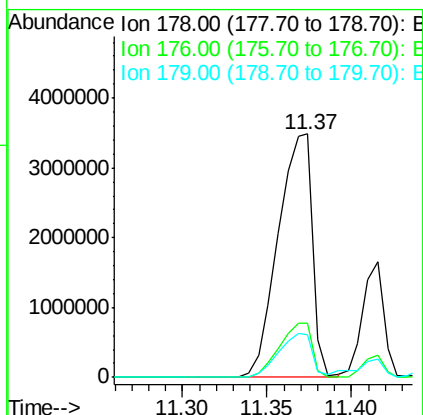
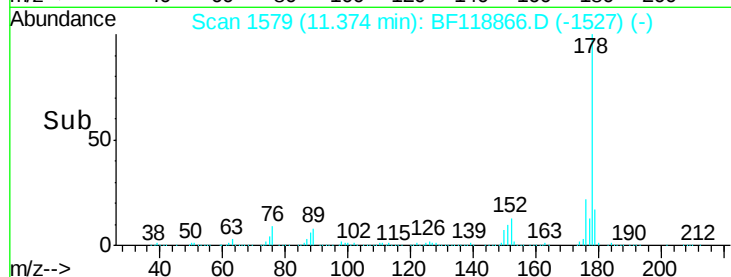
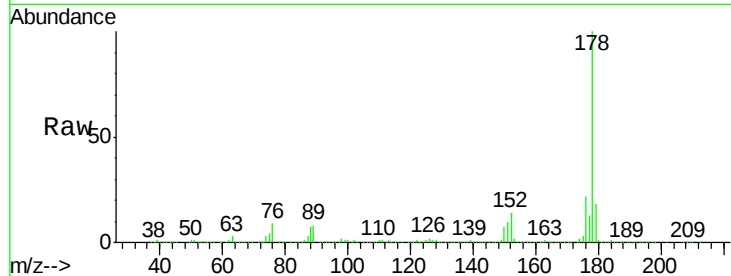
#71  
Phenanthrene  
Concen: 119.474 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. 0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

Tot Ion:178 Resp: 4923901  
Ion Ratio Lower Upper  
178 100  
176 22.5 16.6 24.8  
179 17.5 13.2 19.8

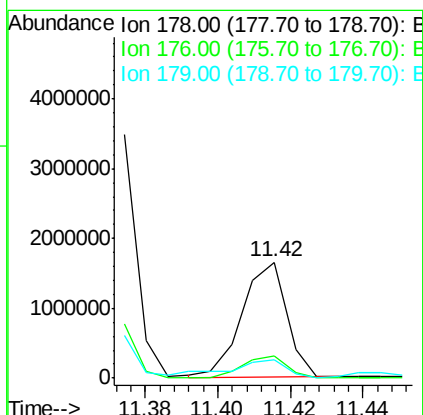
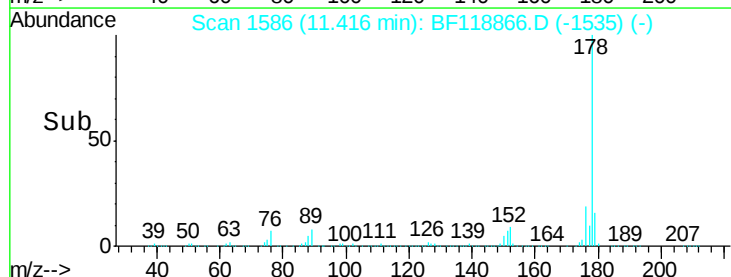
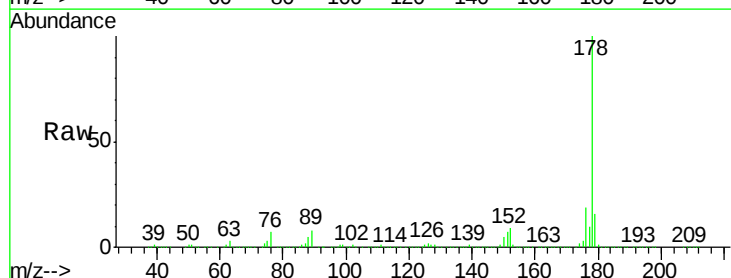
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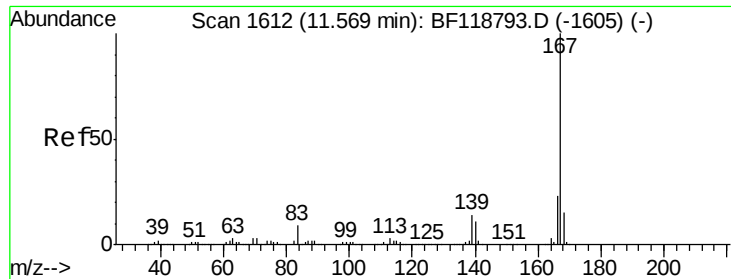
mohammad  
2/13/2020 10:28:30 AM



#72  
Anthracene  
Concen: 34.221 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.00 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Tgt Ion:178 Resp: 1403060  
Ion Ratio Lower Upper  
178 100  
176 19.3 16.2 24.2  
179 15.9 13.4 20.2





#73

Carbazole

Concen: 17.959 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Instrument :

BNA\_F

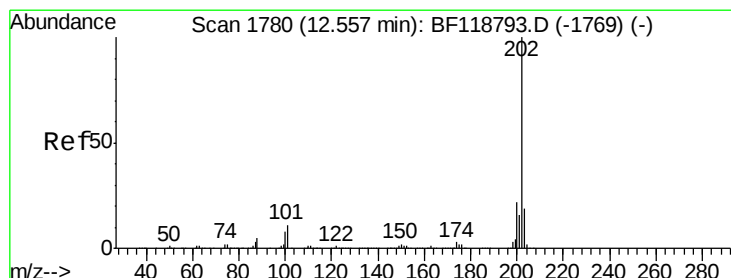
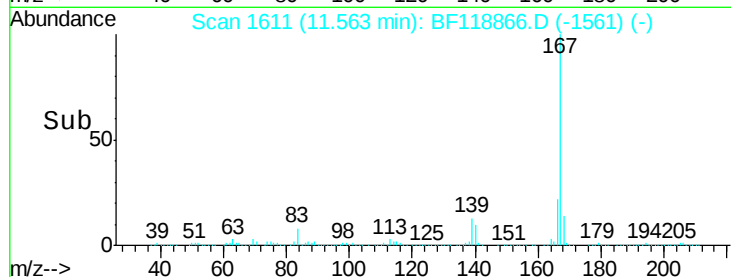
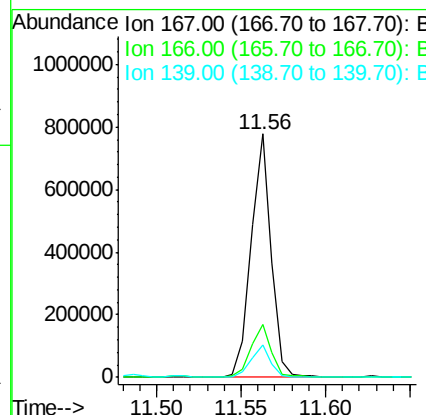
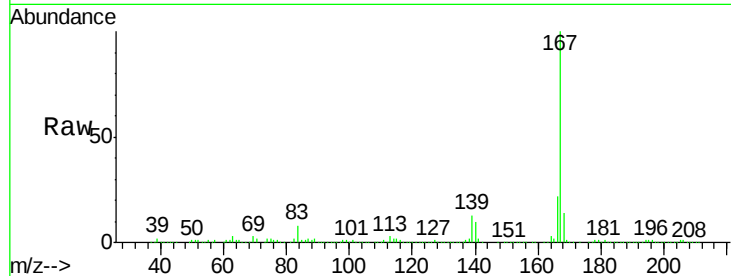
ClientSampleId :

TP11-EP2-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 167   | Resp: | 646180 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.9  | 18.4  | 27.6   |
| 139       | 13.1  | 11.1  | 16.7   |

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#75

Fluoranthene

Concen: 104.925 ng

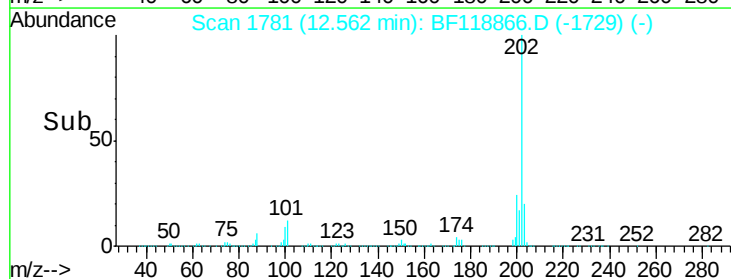
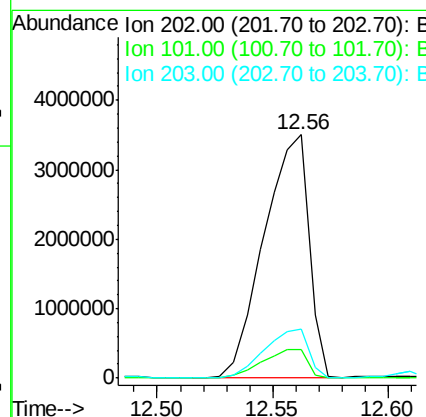
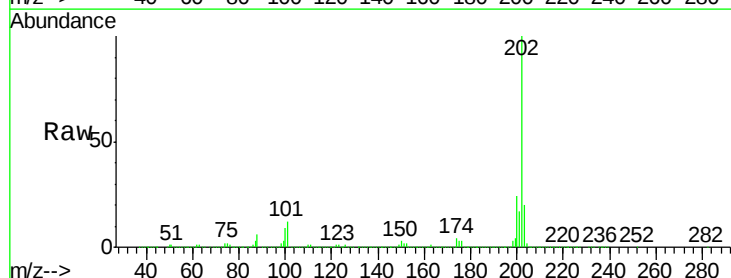
RT: 12.56 min Scan# 1781

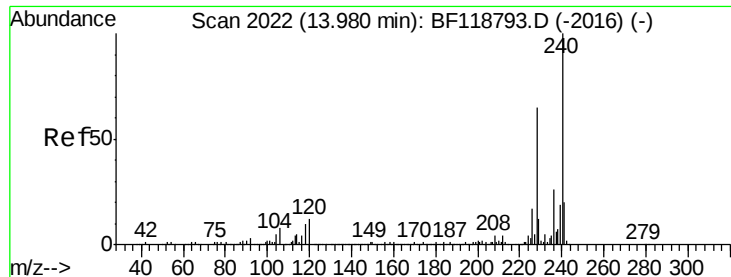
Delta R.T. 0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 4721363 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.6  | 0.0   | 31.0    |
| 203       | 19.9  | 0.0   | 38.7    |





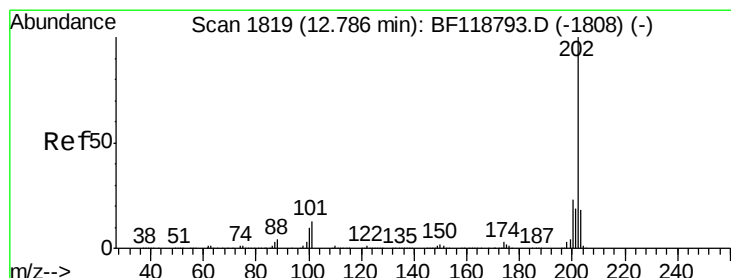
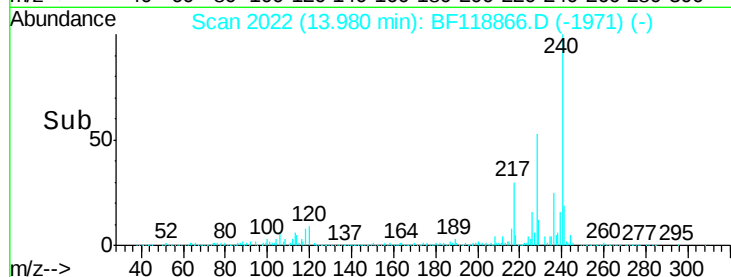
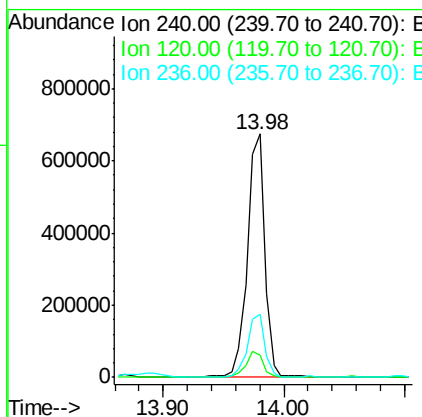
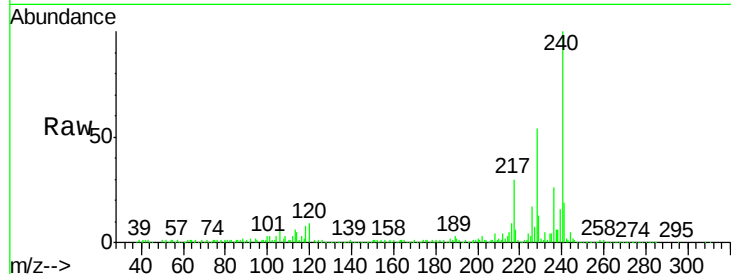
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.00 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.2   | 9.4   | 14.0# |
| 236     | 25.7  | 21.0  | 31.6  |

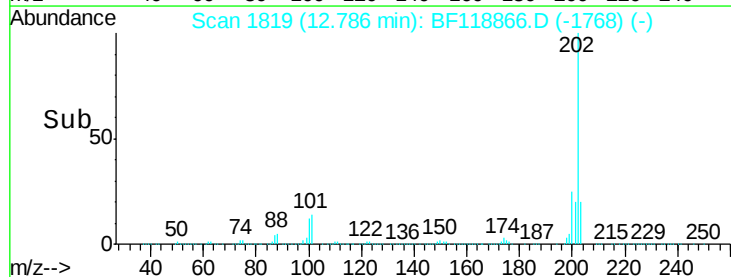
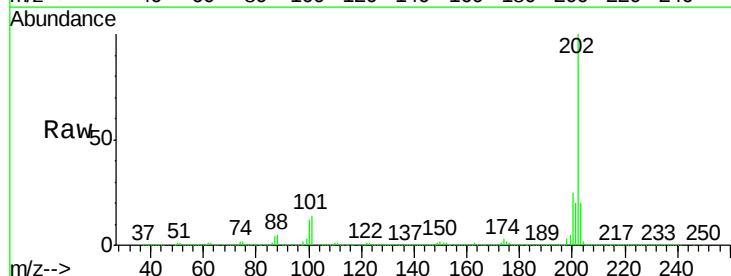
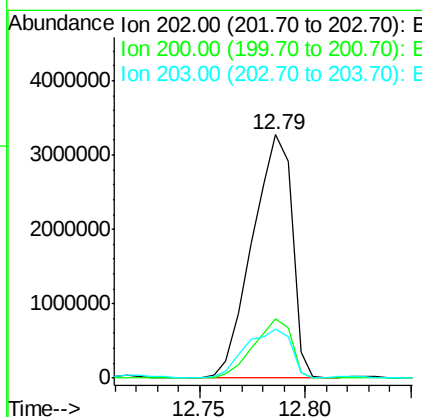
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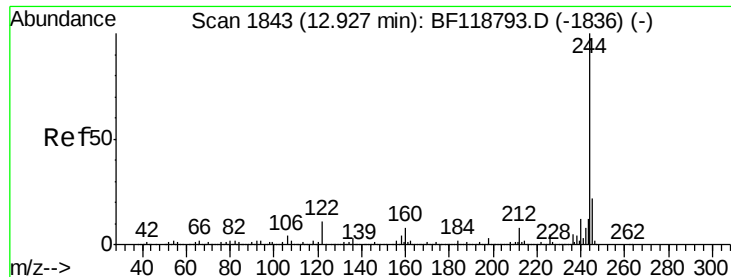
mohammad  
2/13/2020 10:28:30 AM



#78  
Pyrene  
Concen: 91.422 ng  
RT: 12.79 min Scan# 1819  
Delta R.T. -0.00 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 24.6  | 18.2  | 27.2  |
| 203     | 20.4  | 14.8  | 22.2  |





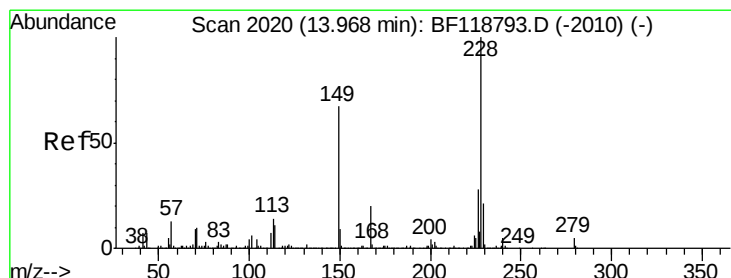
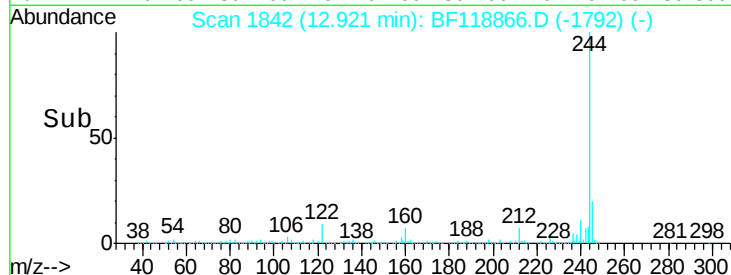
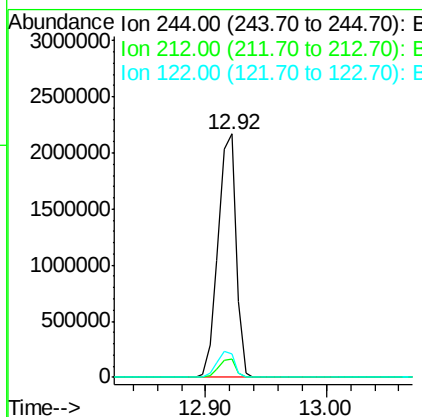
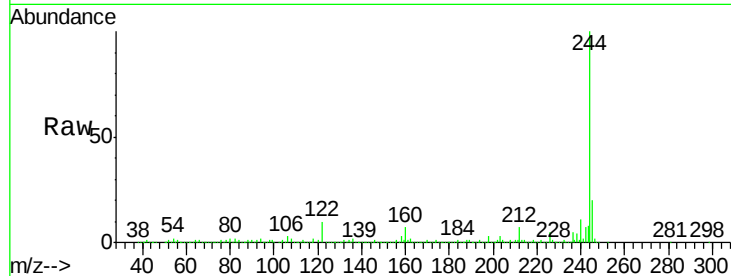
#79  
 Terphenyl-d14  
 Concen: 67.115 ng  
 RT: 12.92 min Scan# 1842  
 Delta R.T. -0.01 min  
 Lab File: BF118866.D  
 Acq: 10 Feb 2020 12:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP11-EP2-3

Tot Ion:244 Resp: 2223324  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.5 9.7  
 122 9.5 8.9 13.3

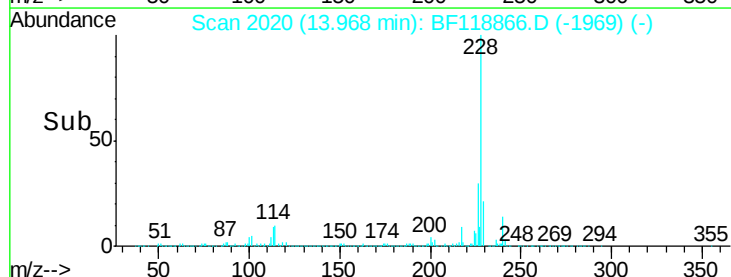
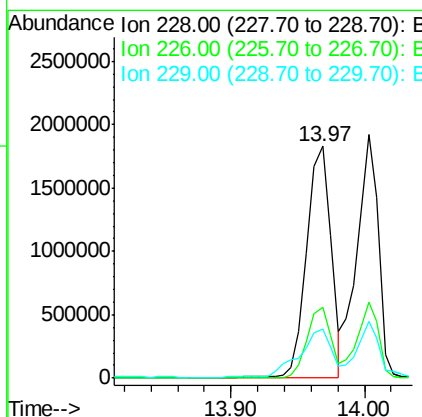
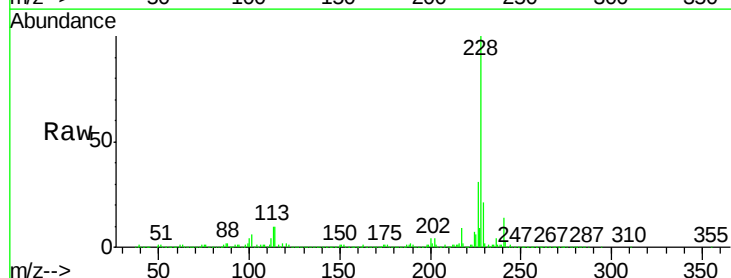
Manual Integrations  
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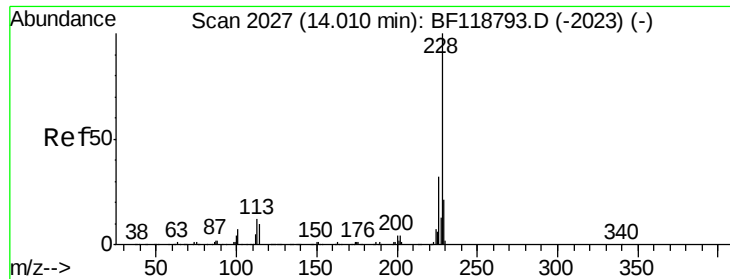
mohammad  
 2/13/2020 10:28:30 AM



#81  
 Benzo(a)anthracene  
 Concen: 56.548 ng  
 RT: 13.97 min Scan# 2020  
 Delta R.T. -0.00 min  
 Lab File: BF118866.D  
 Acq: 10 Feb 2020 12:36

Tgt Ion:228 Resp: 2289643  
 Ion Ratio Lower Upper  
 228 100  
 226 30.5 22.7 34.1  
 229 21.4 16.6 25.0





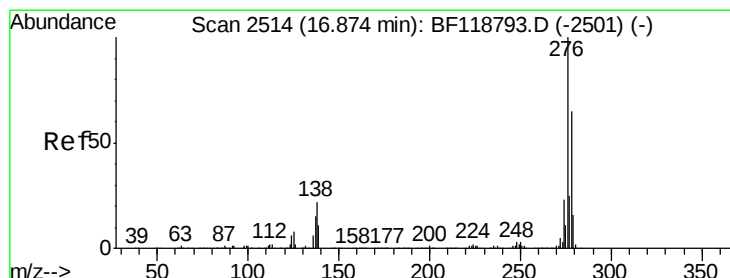
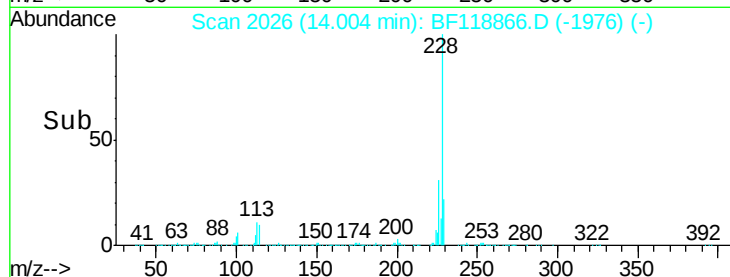
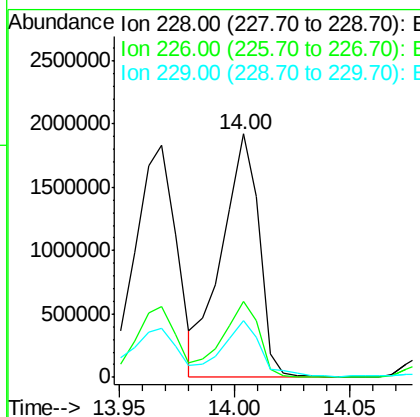
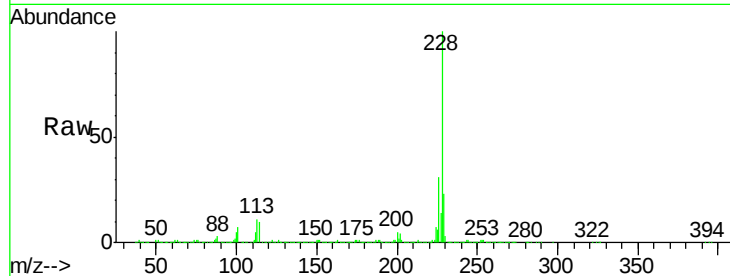
#83  
Chrysene  
Concen: 52.891 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.4  | 25.4  | 38.0  |
| 229     | 23.2  | 16.9  | 25.3  |

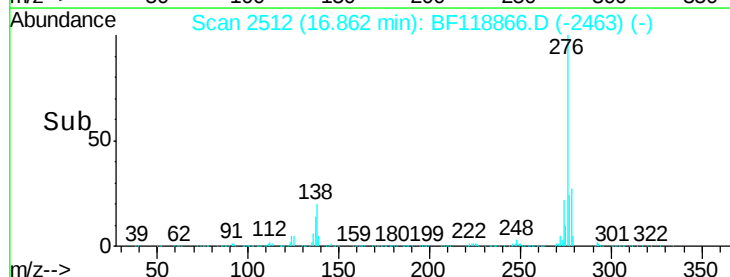
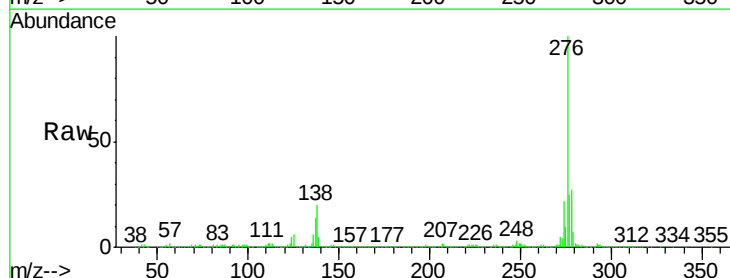
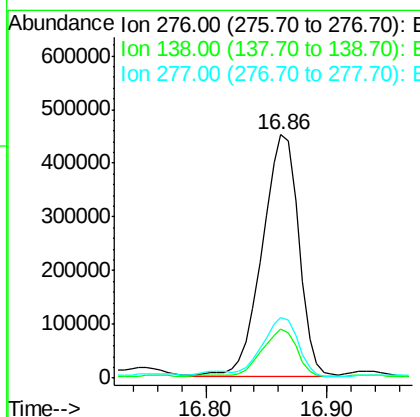
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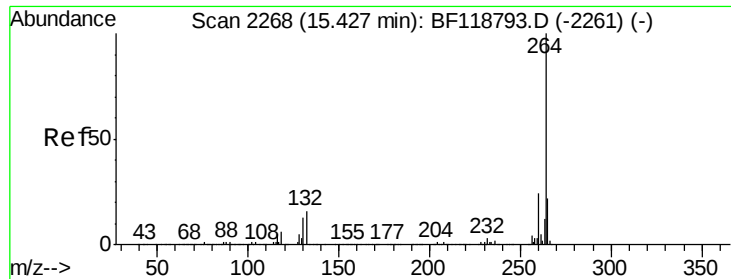
mohammad  
2/13/2020 10:28:30 AM



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 23.196 ng  
RT: 16.86 min Scan# 2512  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.9  | 18.3  | 27.5  |
| 277     | 23.7  | 20.2  | 30.4  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2267

Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Instrument :

BNA\_F

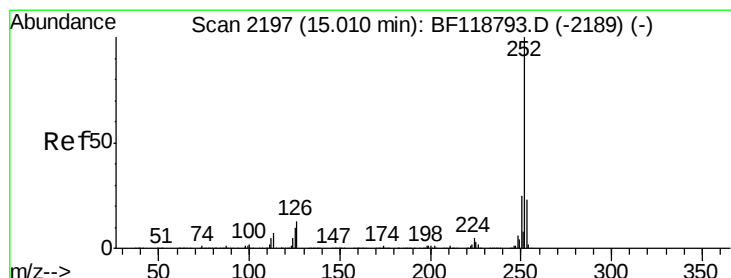
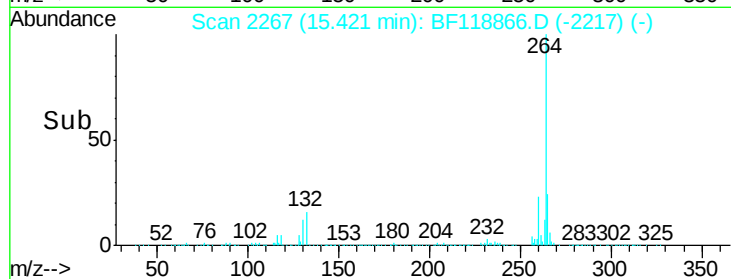
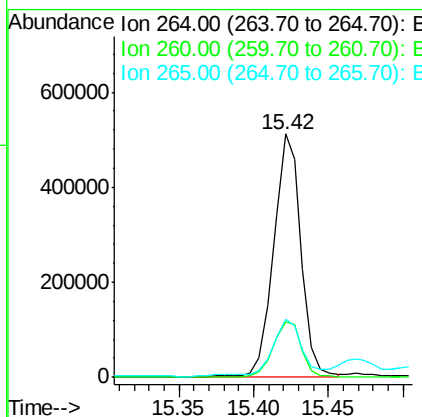
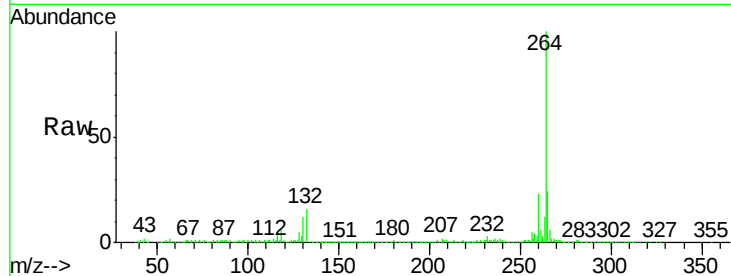
ClientSampleId :

TP11-EP2-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 648833 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.0  | 19.1  | 28.7   |
| 265       | 24.1  | 17.2  | 25.8   |

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#88

Benzo(b)fluoranthene

Concen: 55.958 ng m

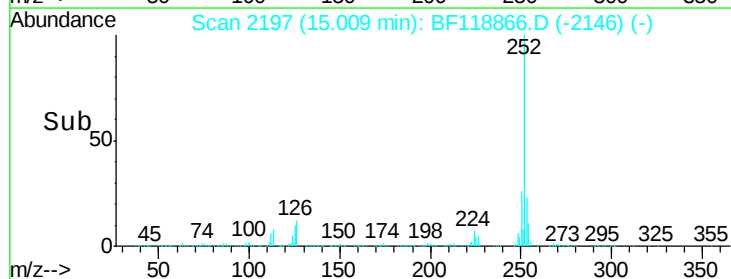
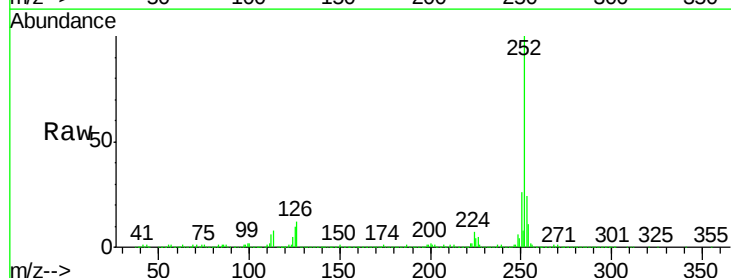
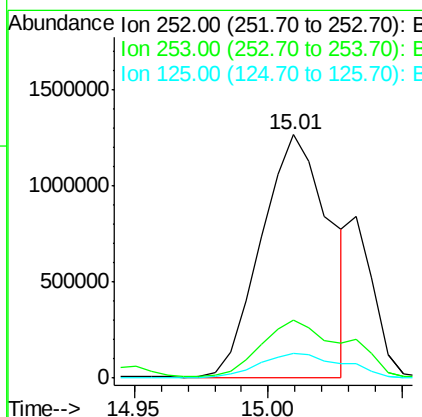
RT: 15.01 min Scan# 2197

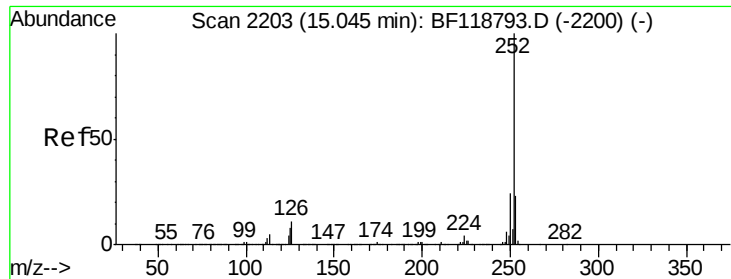
Delta R.T. -0.00 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 2252950 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 23.6  | 18.4  | 27.6    |
| 125       | 10.4  | 8.1   | 12.1    |





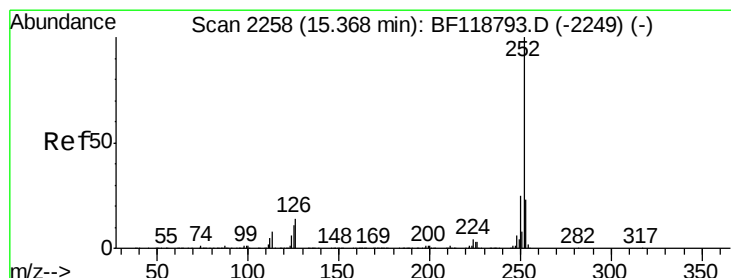
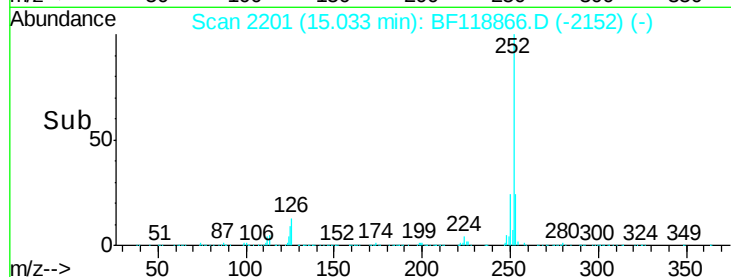
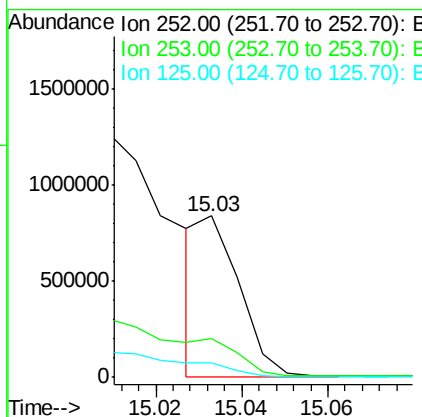
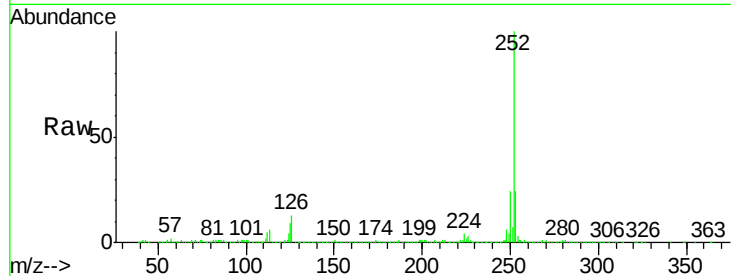
#89  
Benzo(k)fluoranthene  
Concen: 15.360 ng m  
RT: 15.03 min Scan# 2201  
Delta R.T. -0.01 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

Instrument :  
BNA\_F  
ClientSampleId :  
TP11-EP2-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 18.2  | 27.4  |
| 125     | 9.3   | 7.0   | 10.6  |

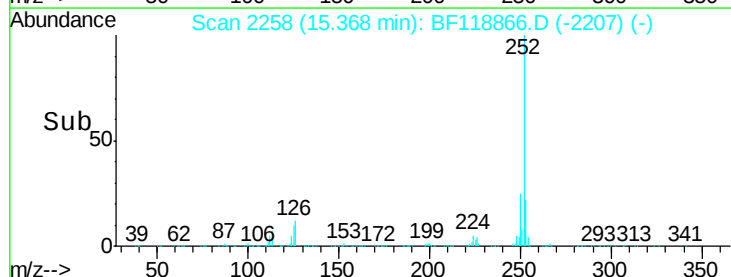
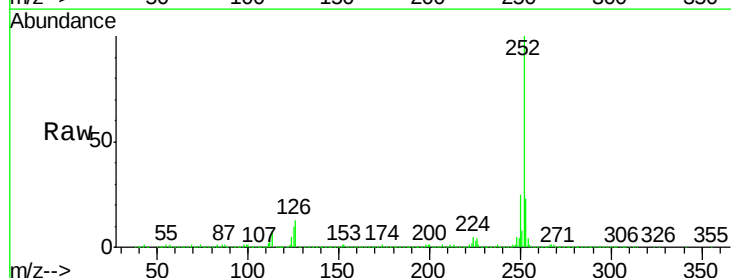
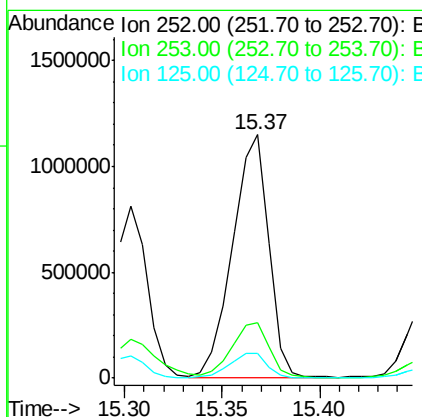
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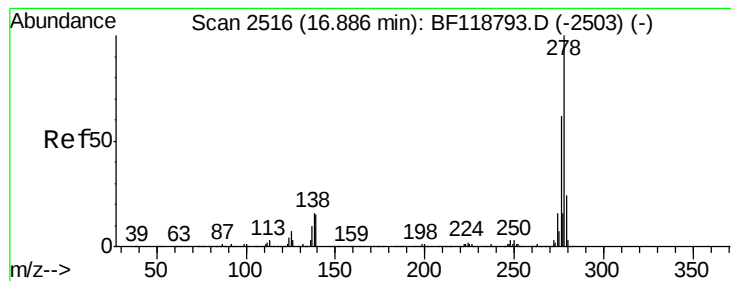
mohammad  
2/13/2020 10:28:30 AM



#90  
Benzo(a)pyrene  
Concen: 42.445 ng  
RT: 15.37 min Scan# 2258  
Delta R.T. -0.00 min  
Lab File: BF118866.D  
Acq: 10 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.1  | 27.1  |
| 125     | 10.0  | 8.7   | 13.1  |





#91

Dibenzo(a,h)anthracene

Concen: 8.472 ng

RT: 16.87 min Scan# 2513

Delta R.T. -0.02 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

Instrument :

BNA\_F

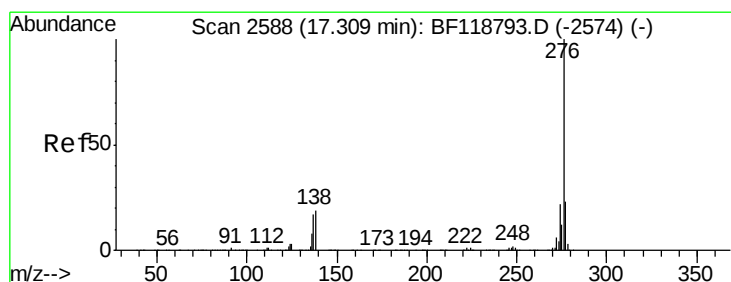
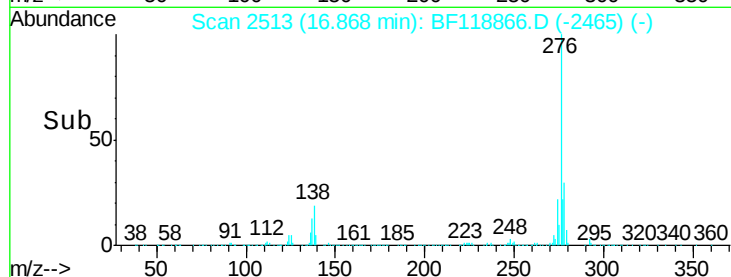
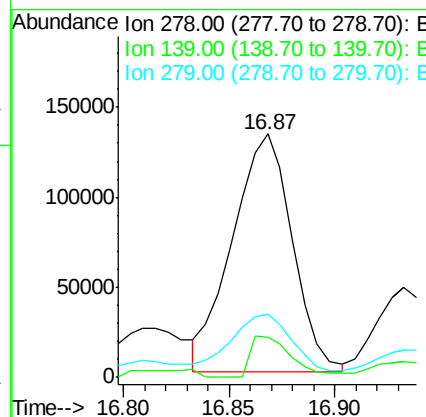
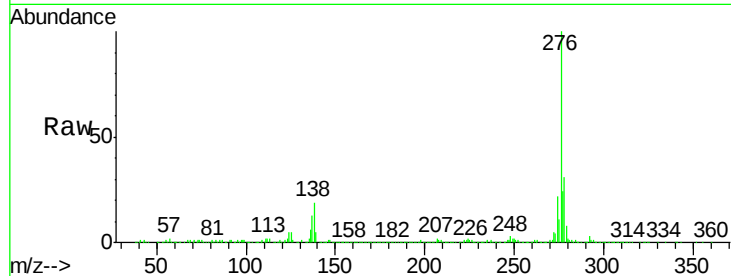
ClientSampleId :

TP11-EP2-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 278   | Resp: | 259154 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 16.6  | 12.3  | 18.5   |
| 279       | 25.9  | 19.1  | 28.7   |

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#92

Benzo(g,h,i)perylene

Concen: 32.295 ng

RT: 17.30 min Scan# 2586

Delta R.T. -0.01 min

Lab File: BF118866.D

Acq: 10 Feb 2020 12:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 950019 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.3  | 18.7  | 28.1   |
| 138       | 20.2  | 15.4  | 23.2   |

