

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\  
 Data File : BF118888.D  
 Acq On : 11 Feb 2020 17:11  
 Operator : CG/JU  
 Sample : L1481-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

Manual Integrations  
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Quant Time: Feb 12 07:17:07 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   | 6.80  | 152  | 271331   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.09  | 136  | 1045835  | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 9.84  | 164  | 586828   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.32 | 188  | 1110793  | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12            | 13.96 | 240  | 707062   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12            | 15.41 | 264  | 699555   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 1468000  | 102.41 | ng    | 0.00     |
| 7) Phenol-d6                | 6.44  | 99   | 1814551  | 101.98 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 1172853  | 66.84  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 662725   | 94.38  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 2059998  | 62.76  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.91 | 244  | 2007809  | 58.33  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 50) Dimethylphthalate       | 9.55  | 163  | 134373   | 3.363  | ng    | 97       |
| 71) Phenanthrene            | 11.35 | 178  | 152605   | 2.792  | ng    | 97       |
| 75) Fluoranthene            | 12.53 | 202  | 320220   | 5.366  | ng    | 98       |
| 78) Pyrene                  | 12.76 | 202  | 310841   | 6.408  | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.95 | 228  | 141411   | 3.361  | ng    | 100      |
| 83) Chrysene                | 13.99 | 228  | 139433   | 3.302  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 14.99 | 252  | 183019m  | 4.216  | ng    |          |
| 90) Benzo(a)pyrene          | 15.34 | 252  | 122147   | 3.288  | ng    | 99       |
| 92) Benzo(g,h,i)perylene    | 17.27 | 276  | 80322    | 2.533  | ng    | 99       |

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

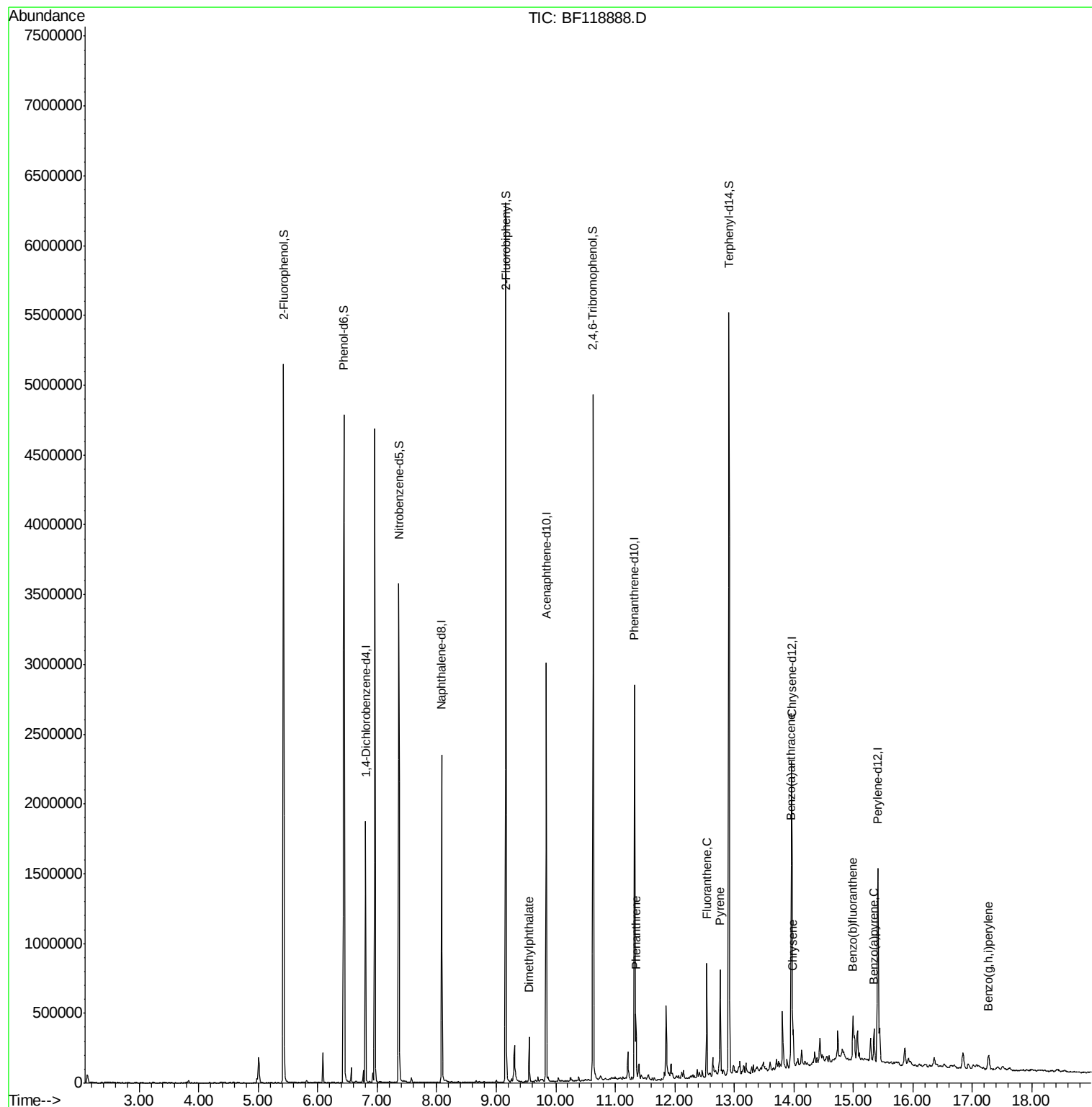
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\  
Data File : BF118888.D  
Acq On : 11 Feb 2020 17:11  
Operator : CG/JU  
Sample : L1481-02  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

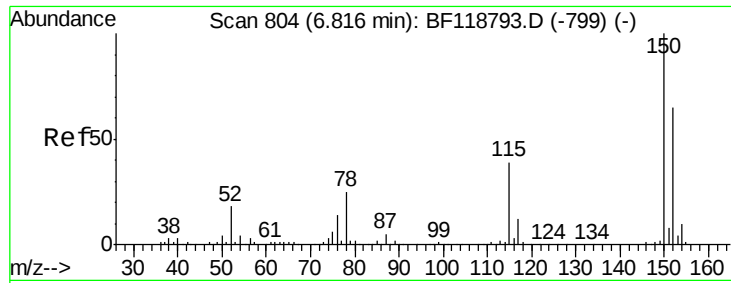
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

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Quant Time: Feb 12 07:17:07 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





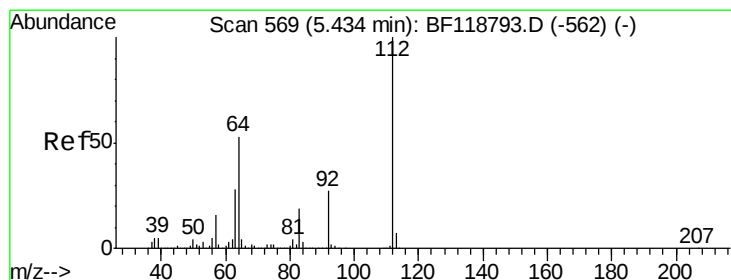
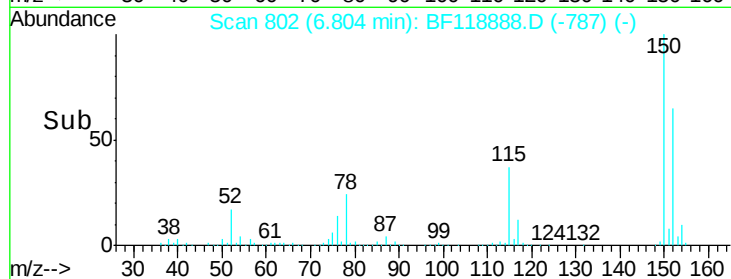
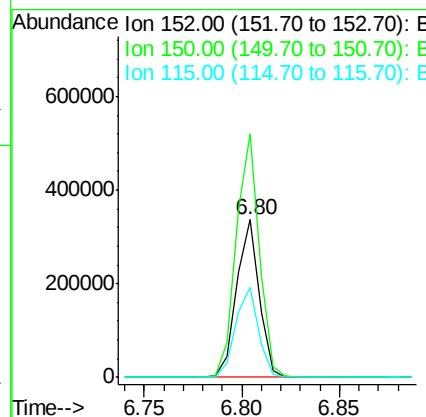
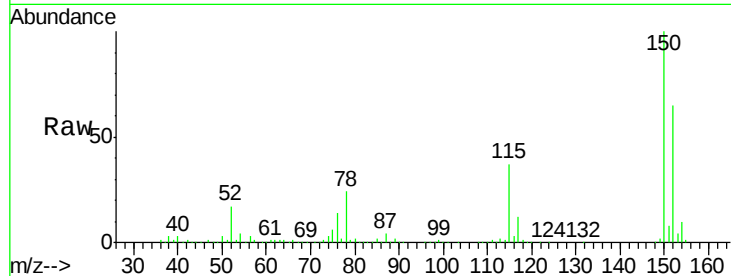
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.80 min Scan# 802  
 Delta R.T. -0.01 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.5 | 123.6 | 185.4 |
| 115     | 56.8  | 48.2  | 72.2  |

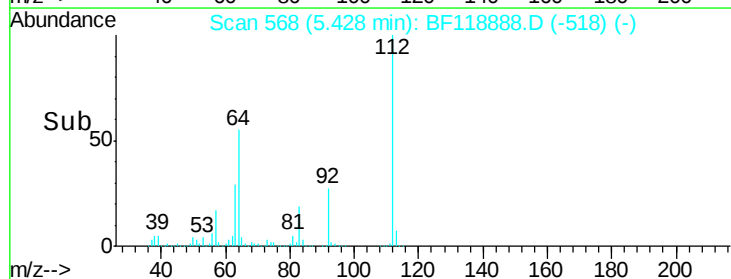
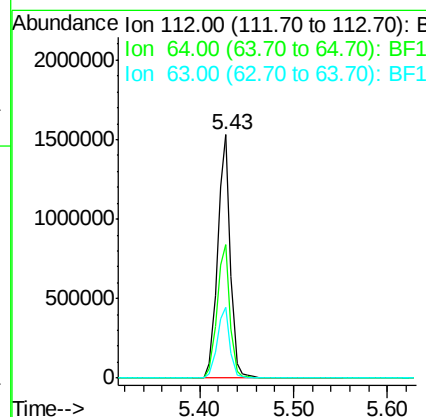
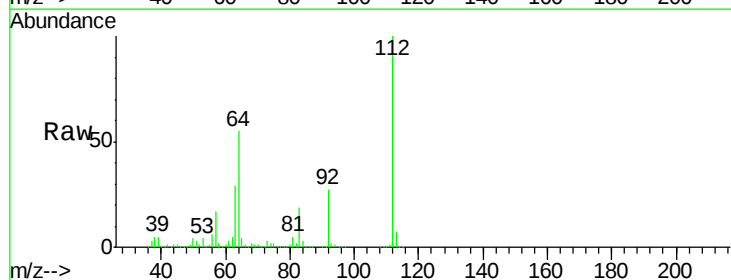
Manual Integrations  
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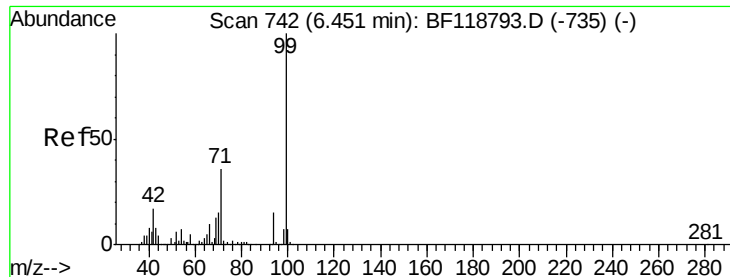
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#5  
 2-Fluorophenol  
 Concen: 102.414 ng  
 RT: 5.43 min Scan# 568  
 Delta R.T. -0.01 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.7  | 42.6  | 63.8  |
| 63      | 29.2  | 22.2  | 33.4  |





#7

Phenol-d6

Concen: 101.978 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

Instrument :

BNA\_F

ClientSampleId :

72-11989

Tot Ion: 99 Resp: 1814551

Ion Ratio Lower Upper

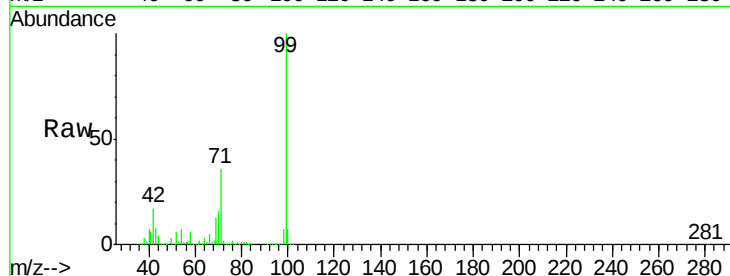
99 100

42 17.2 13.4 20.0

71 35.8 29.0 43.6

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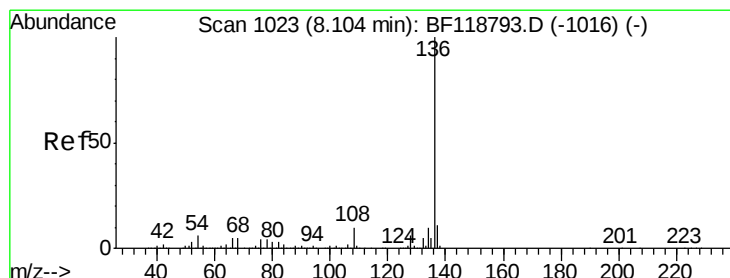
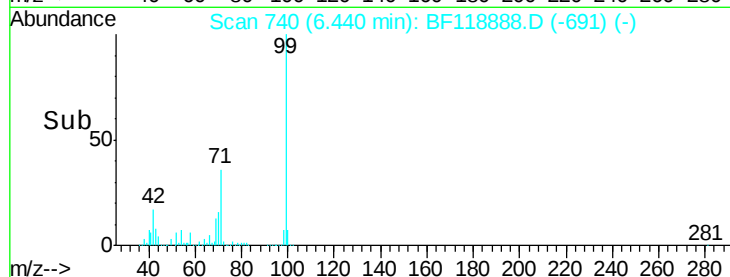
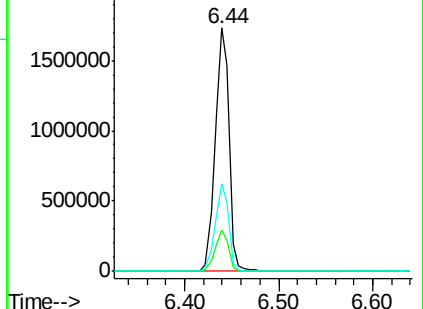
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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# 1020

Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

Tgt Ion: 136 Resp: 1045835

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 6.5 5.0 7.6

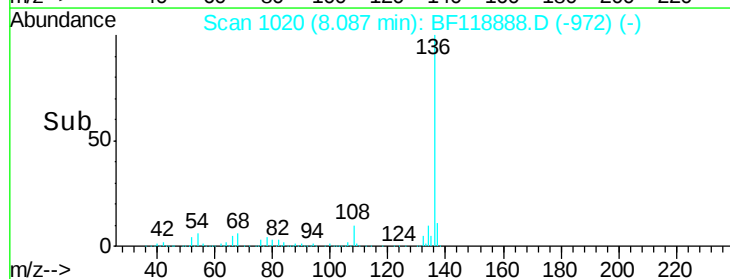
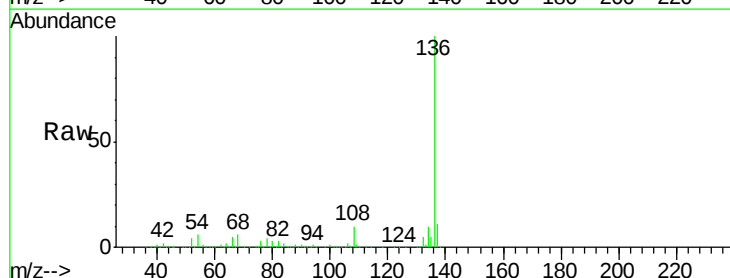
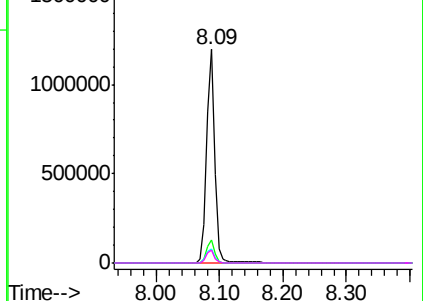
68 5.9 4.2 6.4

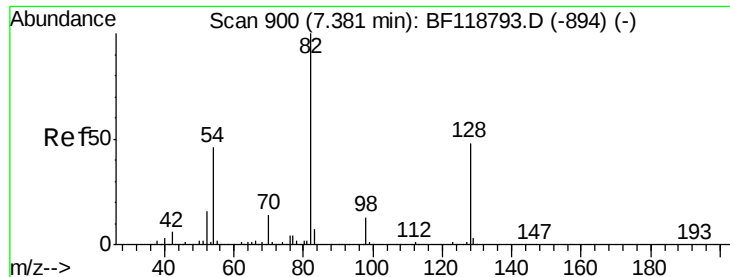
Abundance Ion 136.00 (135.70 to 136.70): E

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





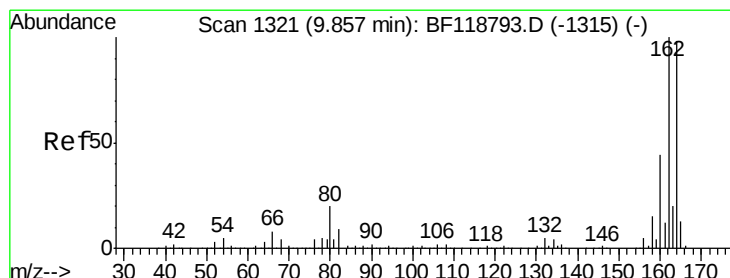
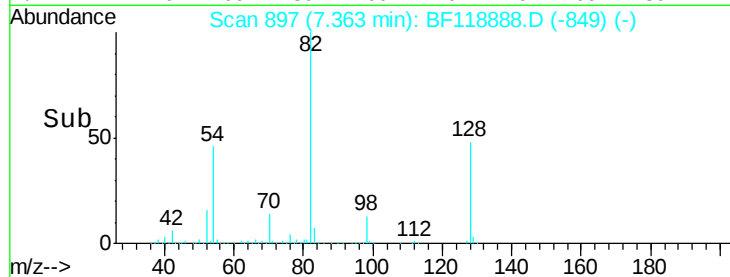
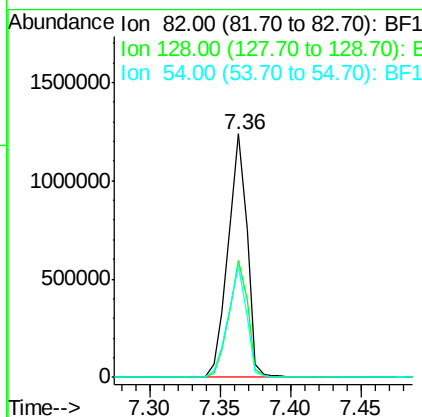
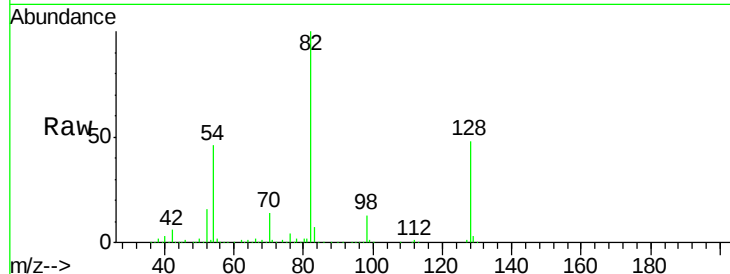
#23  
 Nitrobenzene-d5  
 Concen: 66.844 ng  
 RT: 7.36 min Scan# 897  
 Delta R.T. -0.02 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

| Tot Ion   | 82   | Resp  | 1172853 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 82        | 100  |       |         |
| 128       | 47.9 | 38.5  | 57.7    |
| 54        | 45.8 | 36.7  | 55.1    |

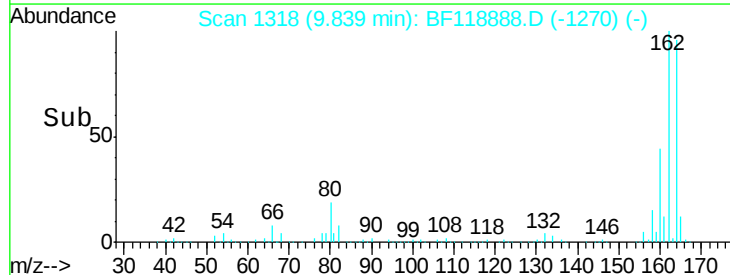
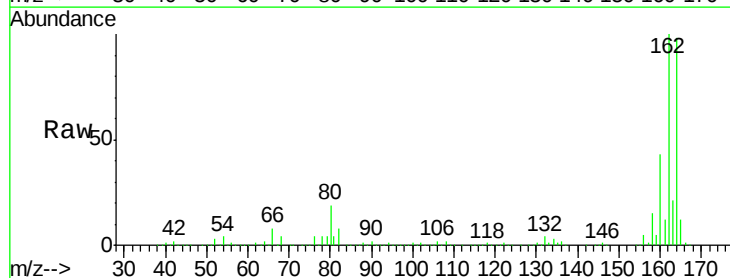
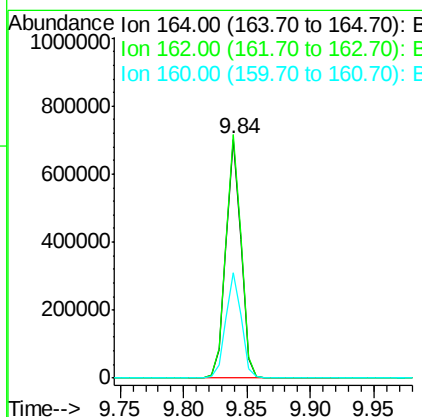
Manual Integrations  
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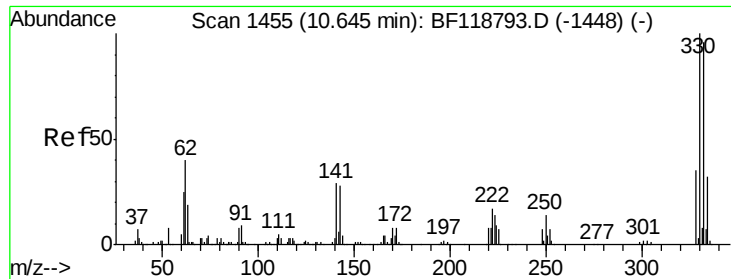
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.02 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

| Tgt Ion   | 164   | Resp  | 586828 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 164       | 100   |       |        |
| 162       | 101.9 | 81.4  | 122.2  |
| 160       | 44.3  | 35.6  | 53.4   |





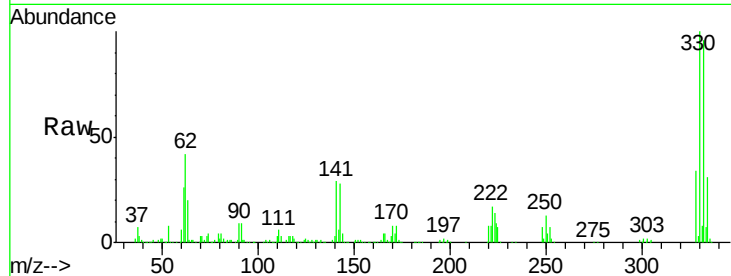
#42  
 2,4,6-Tribromophenol  
 Concen: 94.384 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.02 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

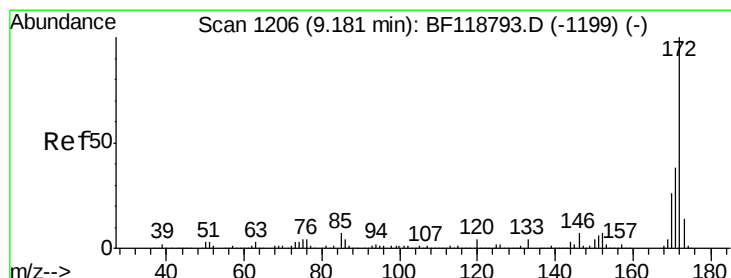
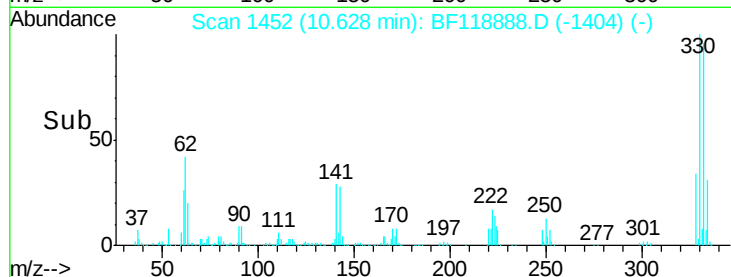
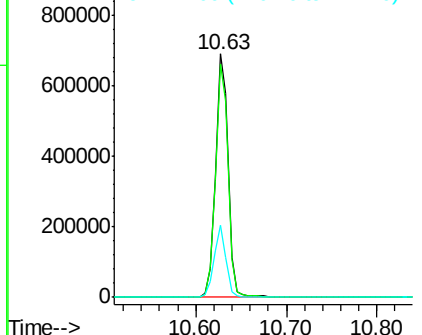
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 662725 |       |       |
| 332     | 96.7  |        | 77.3  | 115.9 |
| 141     | 28.2  |        | 22.4  | 33.6  |

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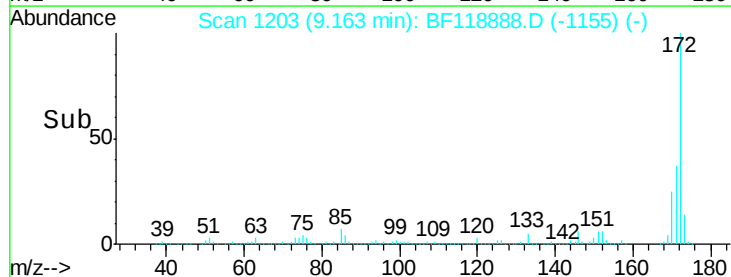
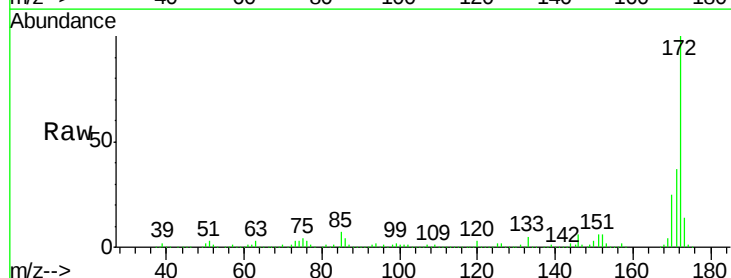
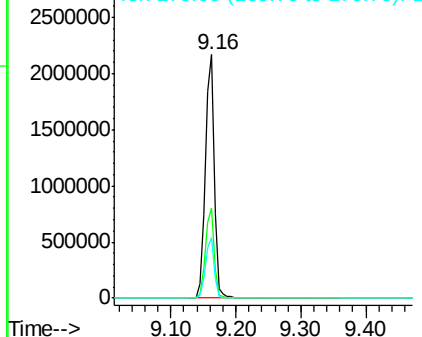
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

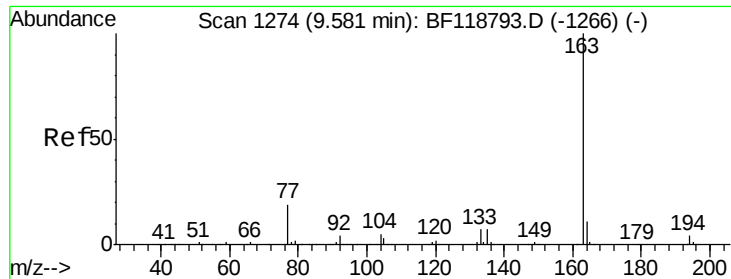


#45  
 2-Fluorobiphenyl  
 Concen: 62.755 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.02 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 2059998 |       |       |
| 171     | 36.8  |         | 30.8  | 46.2  |
| 170     | 24.6  |         | 20.5  | 30.7  |

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





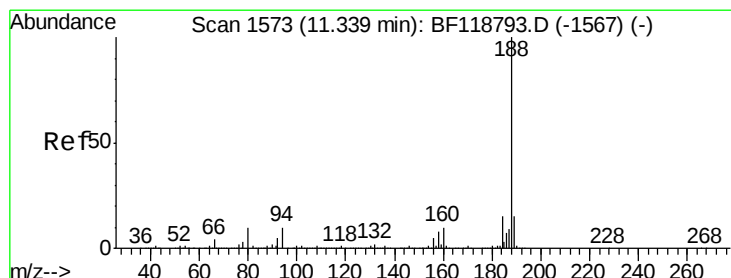
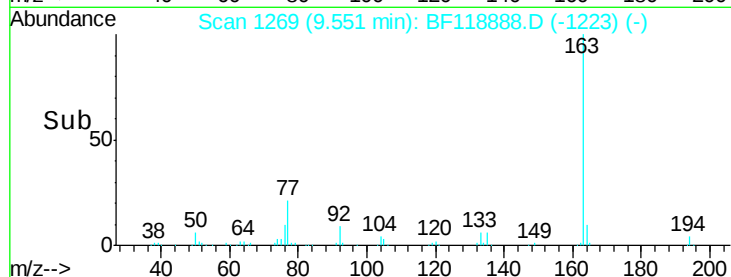
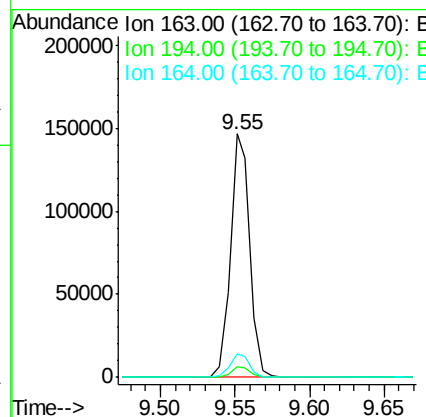
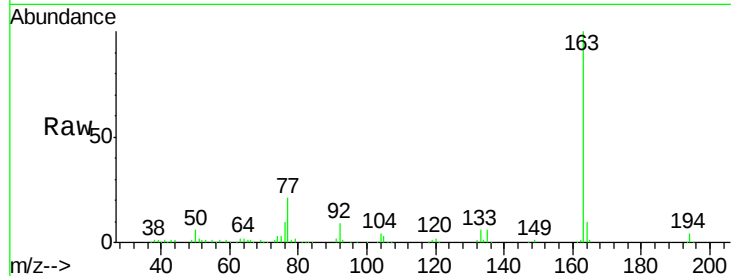
#50  
Dimethylphthalate  
Concen: 3.363 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.03 min  
Lab File: BF118888.D  
Acq: 11 Feb 2020 17:11

Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.2   | 3.6   | 5.4   |
| 164     | 9.7   | 8.7   | 13.1  |

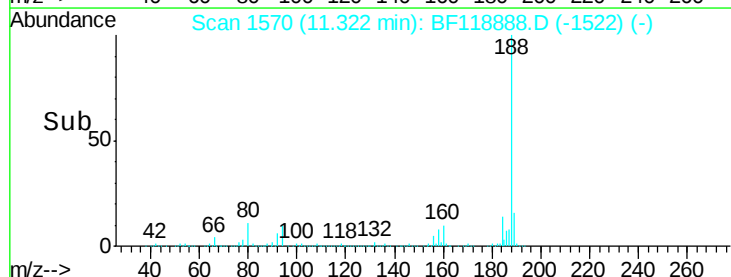
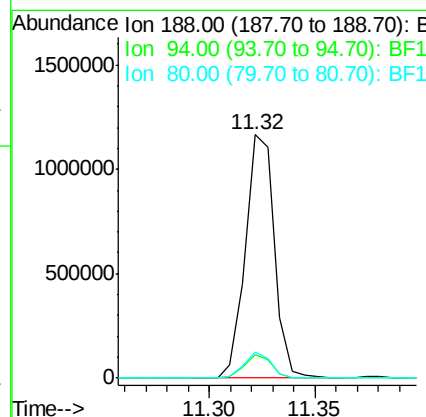
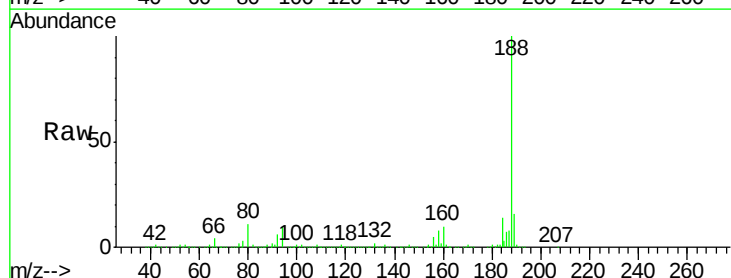
Manual Integrations  
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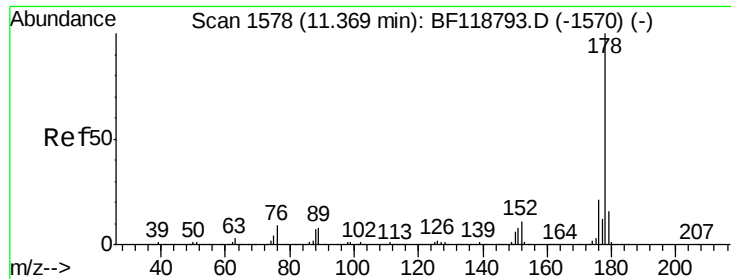
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.02 min  
Lab File: BF118888.D  
Acq: 11 Feb 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 7.9   | 11.9  |
| 80      | 10.7  | 8.4   | 12.6  |





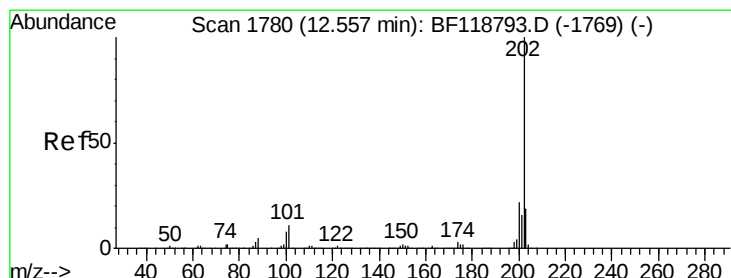
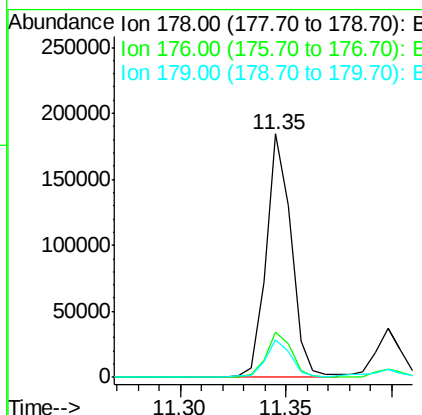
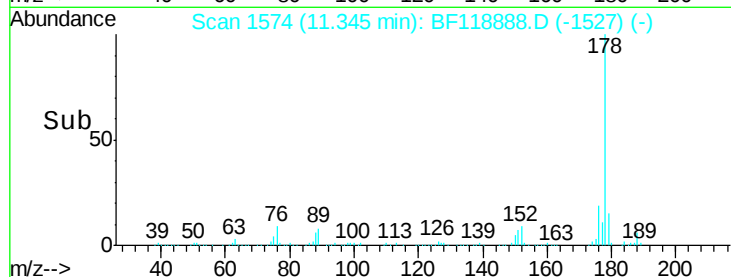
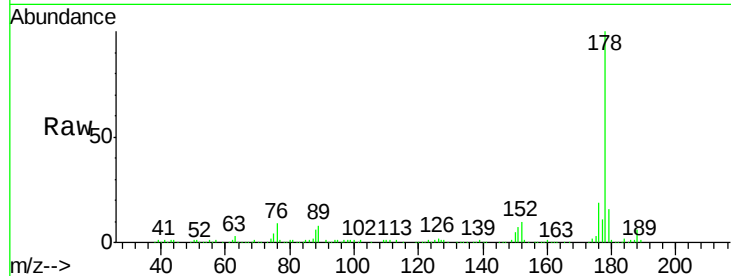
#71  
Phenanthrene  
Concen: 2.792 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.02 min  
Lab File: BF118888.D  
Acq: 11 Feb 2020 17:11

Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 16.6  | 24.8  |
| 179     | 15.6  | 13.2  | 19.8  |

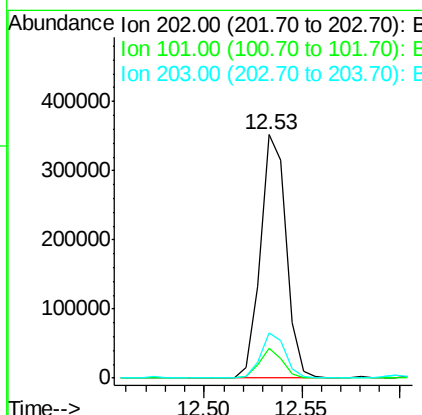
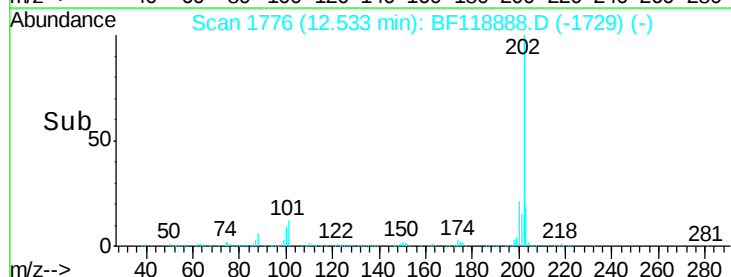
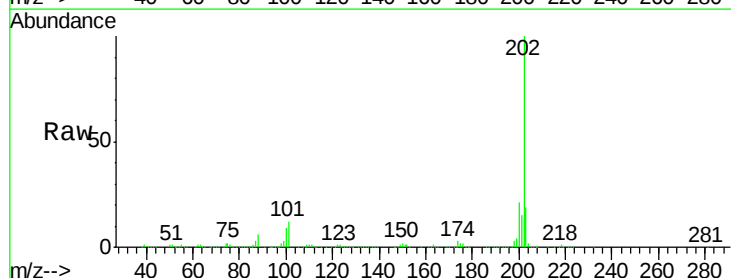
Manual Integrations  
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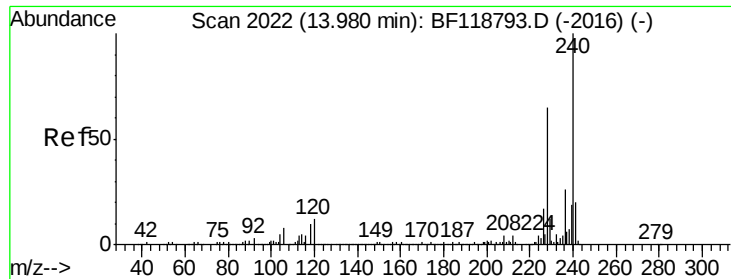
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#75  
Fluoranthene  
Concen: 5.366 ng  
RT: 12.53 min Scan# 1776  
Delta R.T. -0.02 min  
Lab File: BF118888.D  
Acq: 11 Feb 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.5  | 0.0   | 31.0  |
| 203     | 18.6  | 0.0   | 38.7  |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

Instrument :

BNA\_F

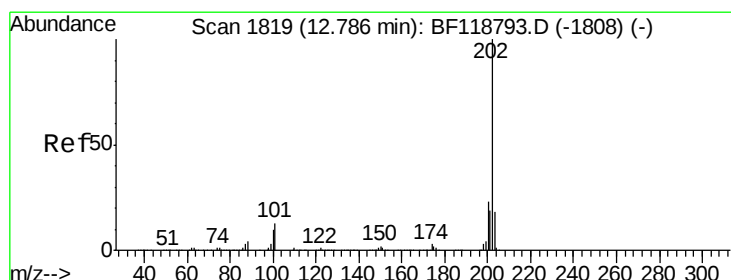
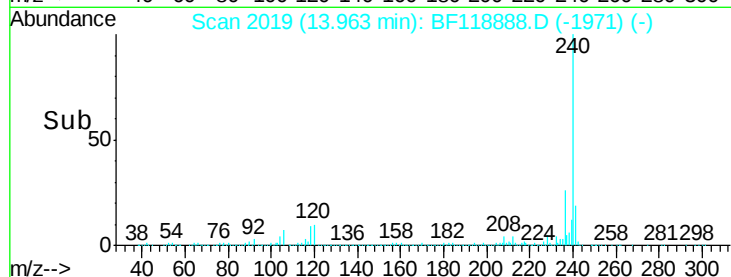
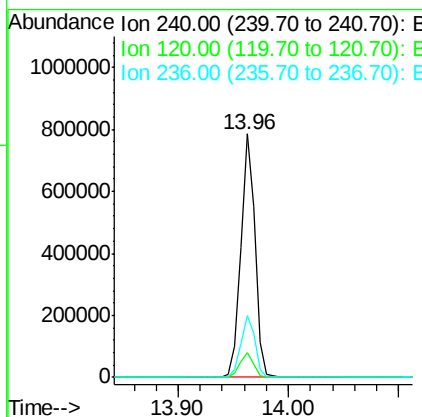
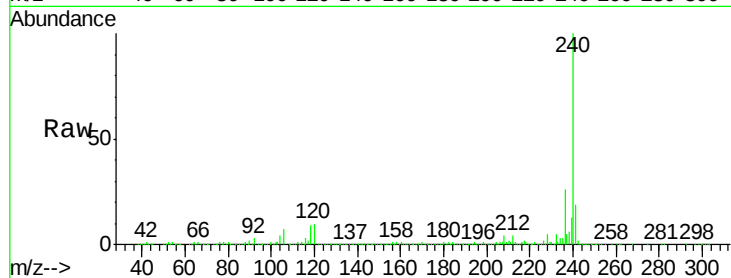
ClientSampled :

72-11989

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.3  | 9.4   | 14.0  |
| 236     | 25.5  | 21.0  | 31.6  |

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#78

Pyrene

Concen: 6.408 ng

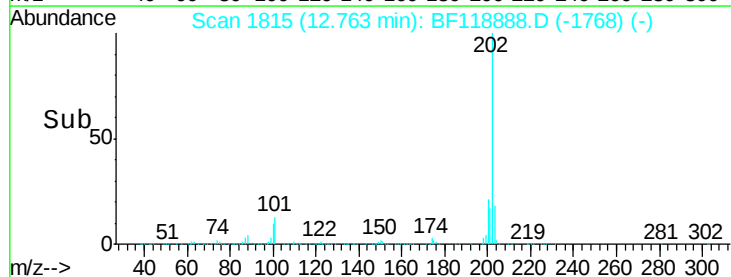
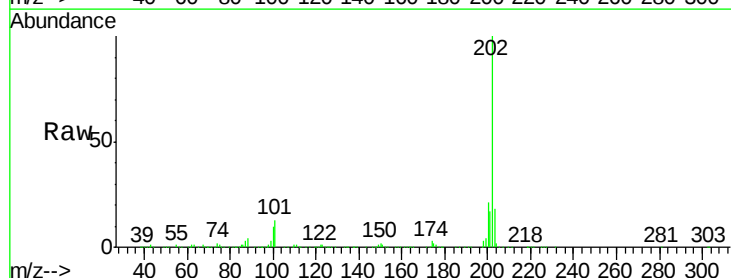
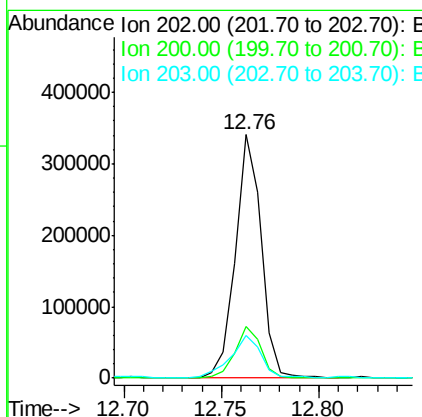
RT: 12.76 min Scan# 1815

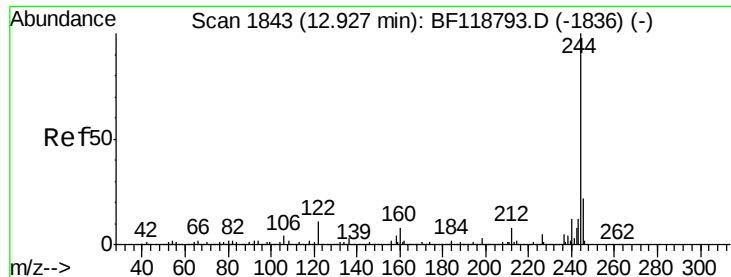
Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 18.2  | 27.2  |
| 203     | 17.7  | 14.8  | 22.2  |





#79

Terphenyl-d14

Concen: 58.328 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

Instrument :

BNA\_F

ClientSampled :

72-11989

Tot Ion:244 Resp: 2007809

Ion Ratio Lower Upper

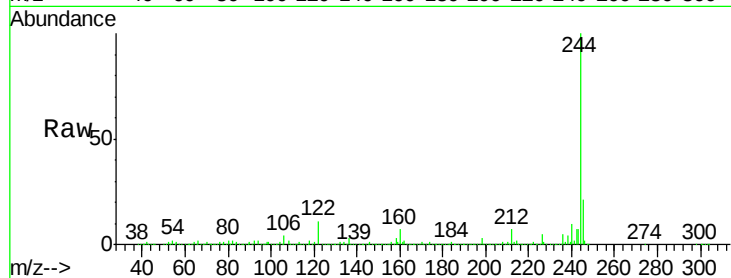
244 100

212 7.2 6.5 9.7

122 10.8 8.9 13.3

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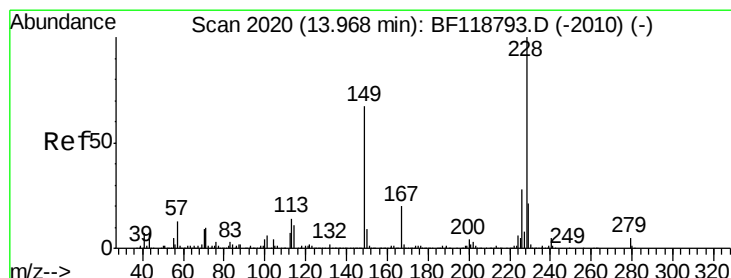
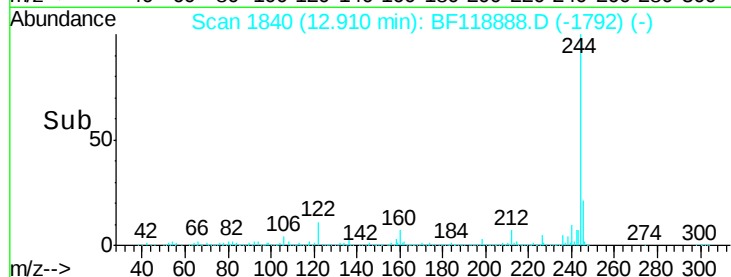
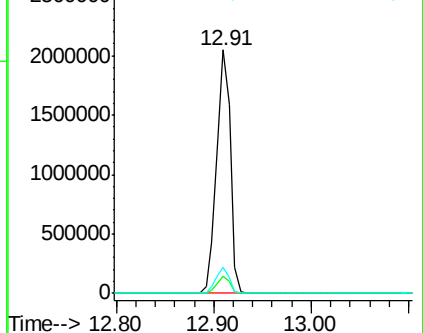
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 3.361 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

Tgt Ion:228 Resp: 141411

Ion Ratio Lower Upper

228 100

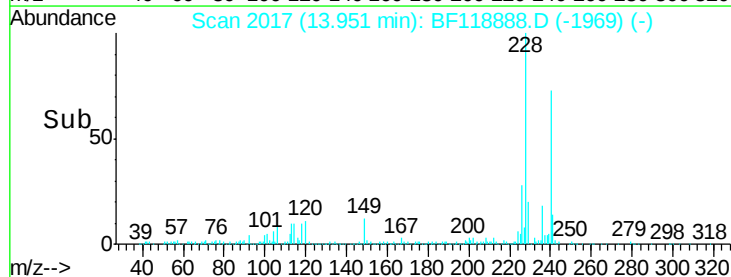
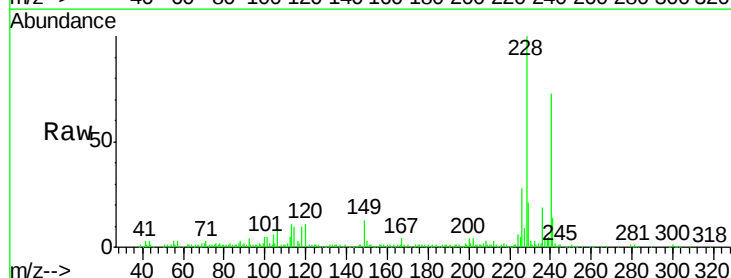
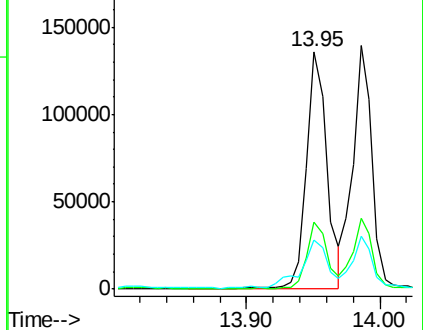
226 28.3 22.7 34.1

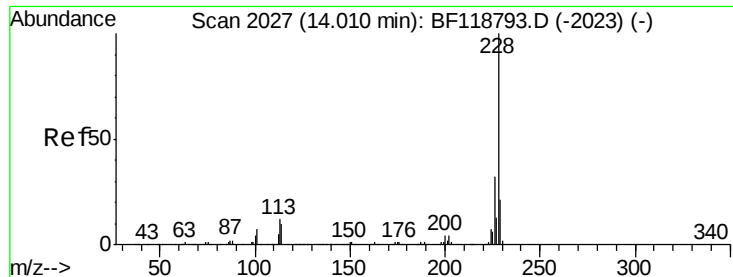
229 20.5 16.6 25.0

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





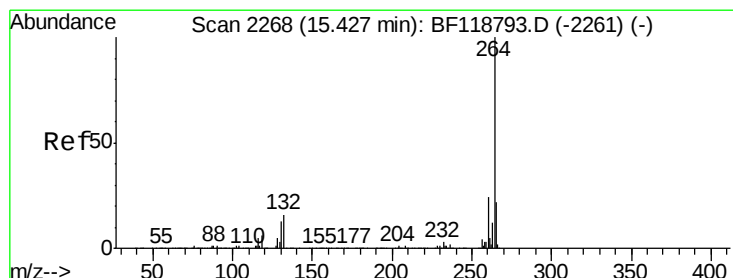
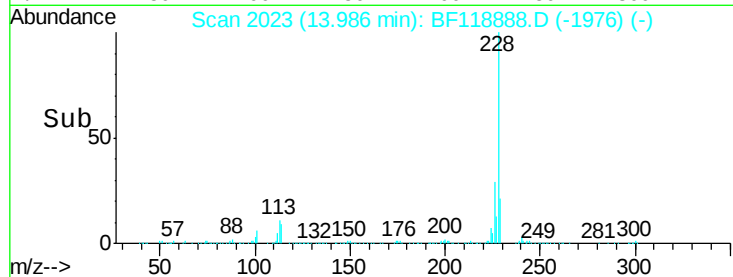
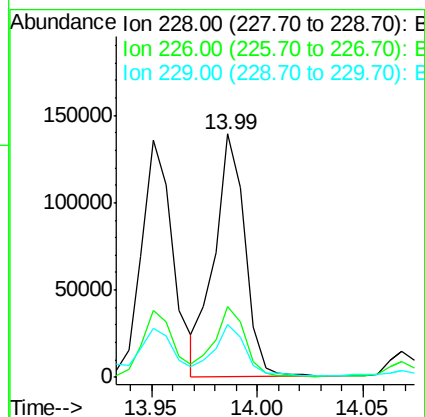
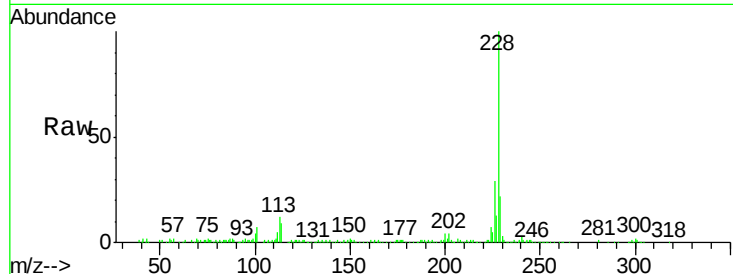
#83  
Chrysene  
Concen: 3.302 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.02 min  
Lab File: BF118888.D  
Acq: 11 Feb 2020 17:11

Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 139433 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.3  | 25.4  | 38.0   |
| 229       | 21.6  | 16.9  | 25.3   |

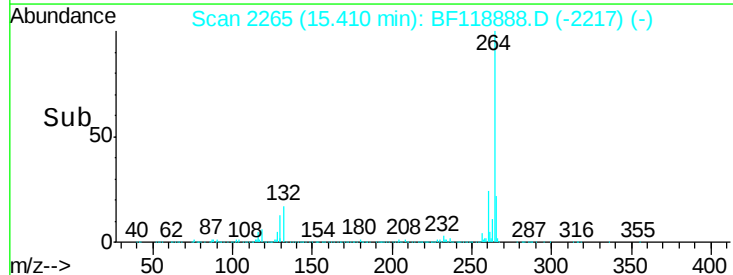
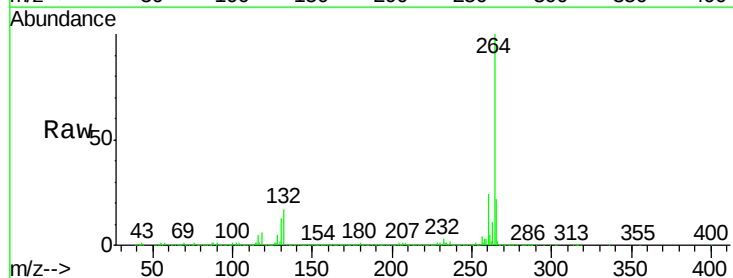
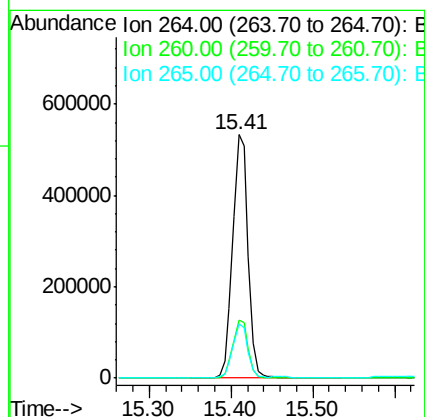
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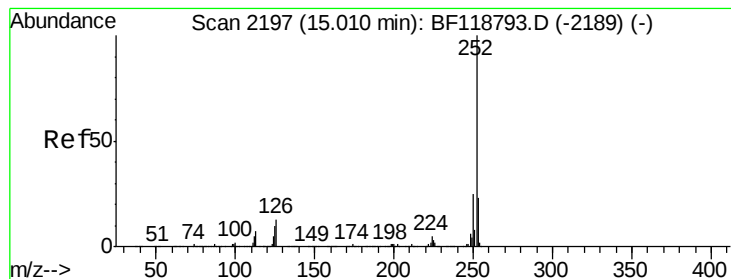
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. -0.02 min  
Lab File: BF118888.D  
Acq: 11 Feb 2020 17:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 699555 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.9  | 19.1  | 28.7   |
| 265       | 22.3  | 17.2  | 25.8   |





#88

Benzo(b)fluoranthene

Concen: 4.216 ng/mL

RT: 14.99 min Scan# 2194

Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

Instrument :

BNA\_F

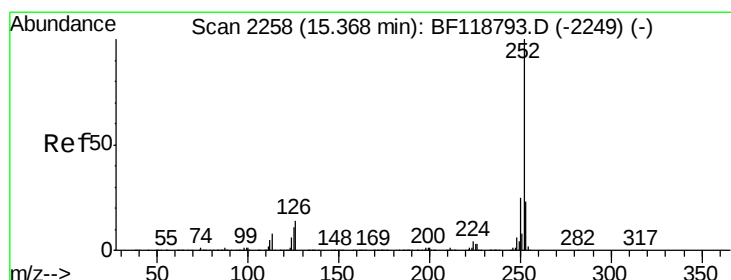
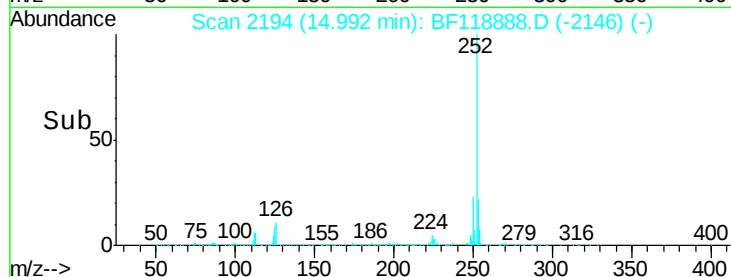
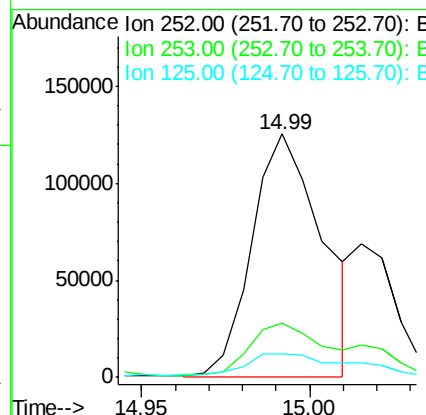
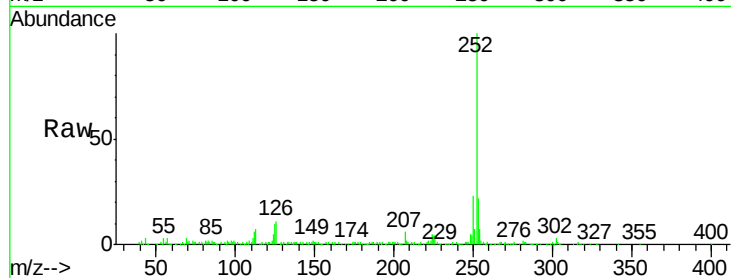
ClientSampleId :

72-11989

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 183019 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.3  | 18.4  | 27.6   |
| 125       | 9.6   | 8.1   | 12.1   |

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#90

Benzo(a)pyrene

Concen: 3.288 ng/mL

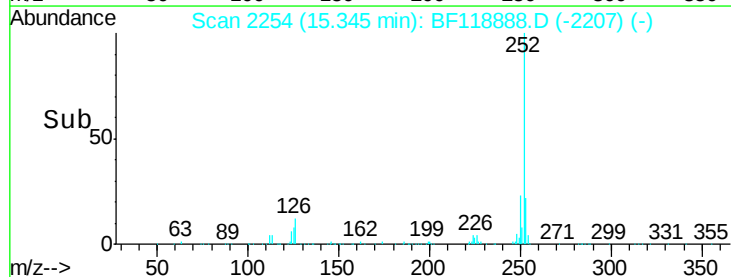
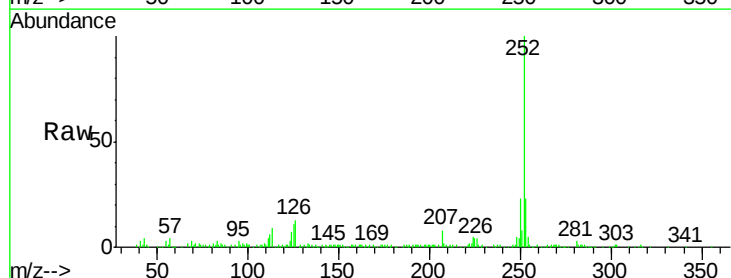
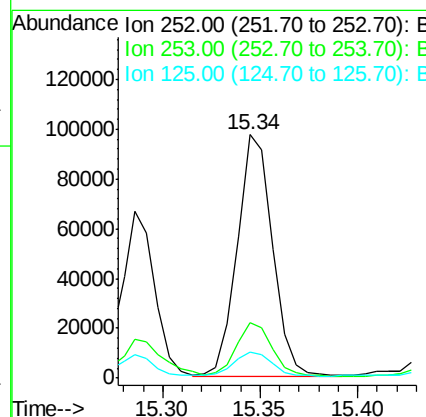
RT: 15.34 min Scan# 2254

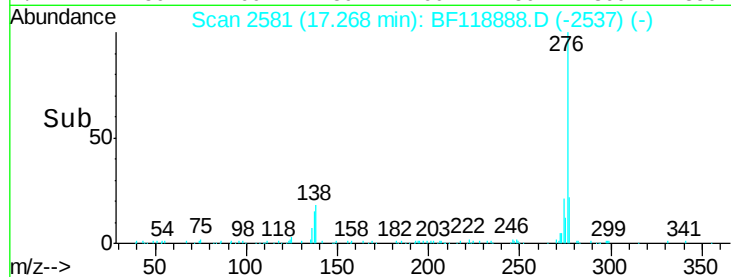
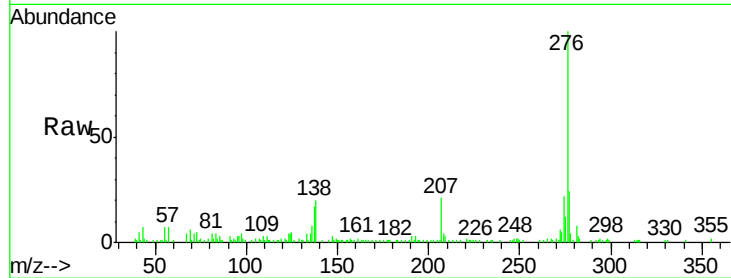
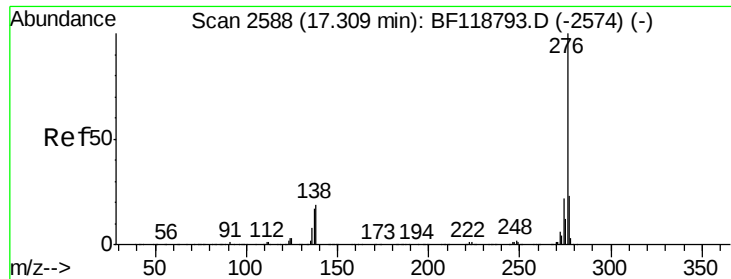
Delta R.T. -0.02 min

Lab File: BF118888.D

Acq: 11 Feb 2020 17:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 122147 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 18.1  | 27.1   |
| 125       | 10.6  | 8.7   | 13.1   |





#92  
 Benzo(a,h,i)perylene  
 Concen: 2.533 ng  
 RT: 17.27 min Scan# 2581  
 Delta R.T. -0.04 min  
 Lab File: BF118888.D  
 Acq: 11 Feb 2020 17:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 80322 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.7  | 18.7  | 28.1  |
| 138       | 20.2  | 15.4  | 23.2  |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

Manual Integrations  
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