

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042018\  
 Data File : BF104674.D  
 Acq On : 20 Apr 2018 15:14  
 Operator : JU/SJ  
 Sample : J2407-01RE  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SPOILS-ICTF-ARE

Manual Integrations  
 APPROVED

Sohil  
 4/23/2018 2:18:19 PM

Quant Time: Apr 20 16:06:13 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 20 14:49:55 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 104494   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.09  | 136  | 360028   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.84  | 164  | 112145   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.33 | 188  | 246285   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 13.98 | 240  | 193465   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 15.45 | 264  | 138489   | 20.00  | ng    | 0.02        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.42  | 112  | 563741   | 82.49  | ng    | 0.00        |
| 7) Phenol-d6                | 6.44  | 99   | 674858   | 80.37  | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 394376   | 71.53  | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 128053   | 110.08 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 620962   | 87.47  | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.92 | 244  | 574990   | 67.76  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 22) Acetophenone            | 7.21  | 105  | 39339    | 4.438  | ng    | Qvalue # 92 |
| 31) Naphthalene             | 8.11  | 128  | 62072    | 3.462  | ng    | 99          |
| 37) 2-Methylnaphthalene     | 8.80  | 142  | 31381    | 2.706  | ng    | 96          |
| 48) Acenaphthylene          | 9.70  | 152  | 52114    | 4.464  | ng    | 98          |
| 49) Dimethylphthalate       | 9.56  | 163  | 69970    | 7.912  | ng    | 100         |
| 51) Acenaphthene            | 9.87  | 154  | 35300    | 4.955  | ng    | 98          |
| 54) Dibenzofuran            | 10.05 | 168  | 41377    | 4.168  | ng    | # 92        |
| 57) Fluorene                | 10.39 | 166  | 45596    | 6.310  | ng    | 98          |
| 70) Phenanthrene            | 11.36 | 178  | 435317   | 31.739 | ng    | 99          |
| 71) Anthracene              | 11.41 | 178  | 174624   | 12.525 | ng    | 98          |
| 72) Carbazole               | 11.56 | 167  | 32263    | 2.368  | ng    | 98          |
| 74) Fluoranthene            | 12.55 | 202  | 749108   | 52.276 | ng    | 99          |
| 77) Pyrene                  | 12.78 | 202  | 721786   | 50.333 | ng    | 100         |
| 80) Benzo(a)anthracene      | 13.97 | 228  | 325298   | 28.145 | ng    | 96          |
| 82) Chrysene                | 14.01 | 228  | 304427   | 25.643 | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.90 | 276  | 119203   | 11.820 | ng    | 95          |
| 87) Benzo(b)fluoranthene    | 15.03 | 252  | 325209m  | 37.181 | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.05 | 252  | 95355m   | 11.547 | ng    |             |
| 89) Benzo(a)pyrene          | 15.39 | 252  | 192757   | 24.630 | ng    | # 93        |
| 90) Dibenzo(a,h)anthracene  | 16.92 | 278  | 31030    | 4.828  | ng    | # 88        |
| 91) Benzo(g,h,i)perylene    | 17.34 | 276  | 120118   | 19.289 | ng    | 97          |

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

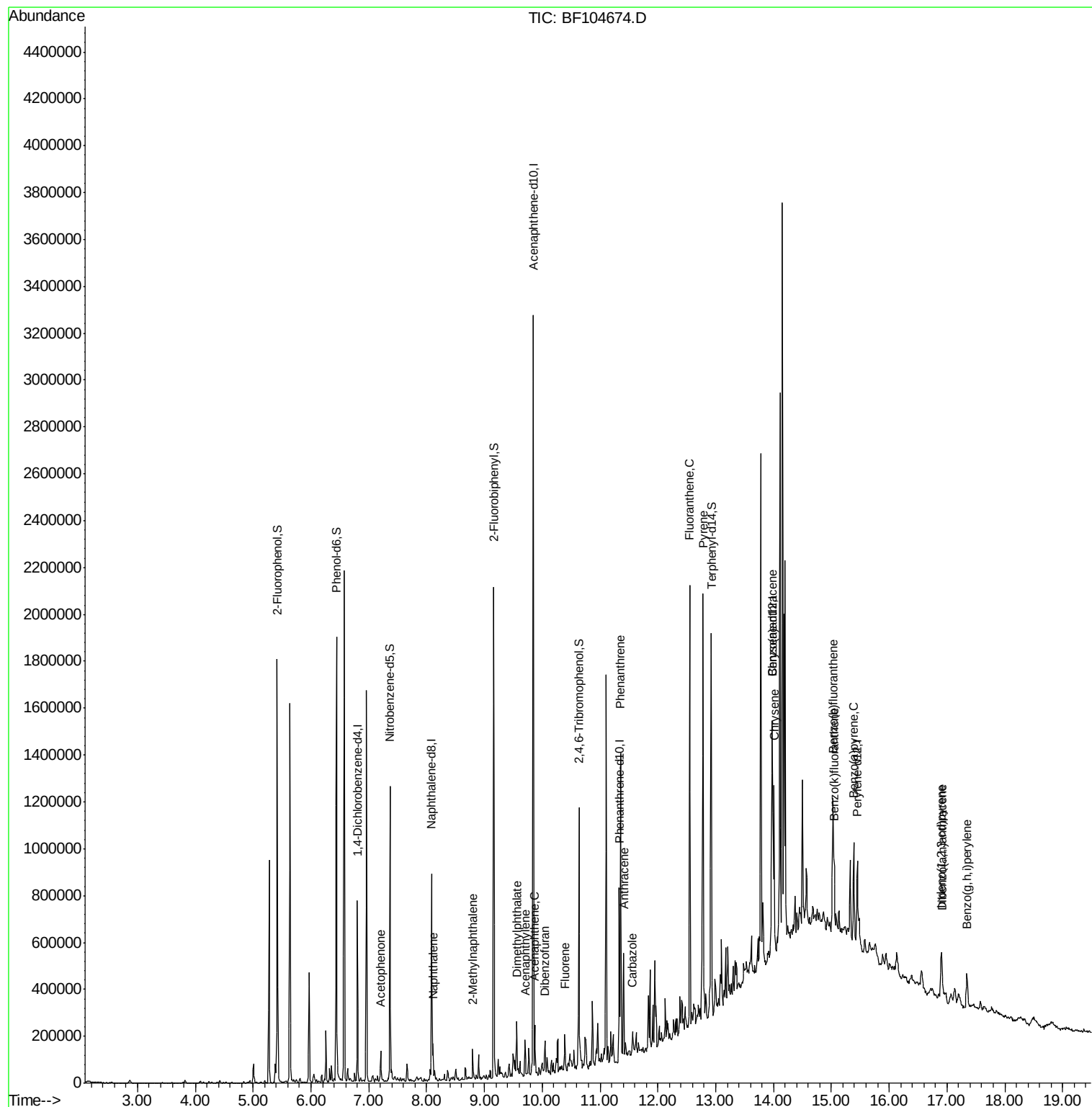
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042018\  
Data File : BF104674.D  
Acq On : 20 Apr 2018 15:14  
Operator : JU/SJ  
Sample : J2407-01RE  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

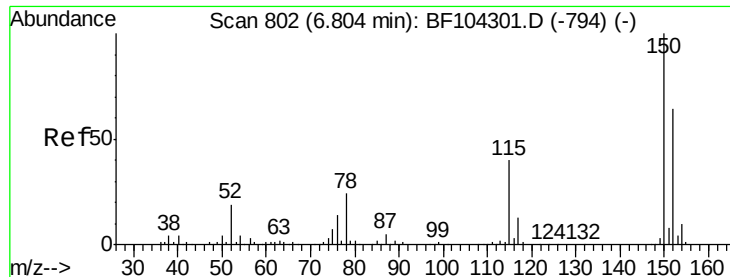
Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

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Quant Time: Apr 20 16:06:13 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 20 14:49:55 2018  
Response via : Initial Calibration





#1

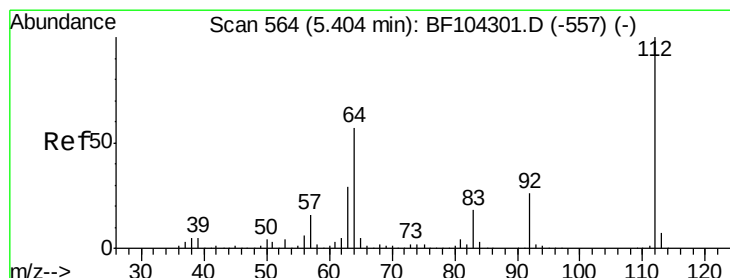
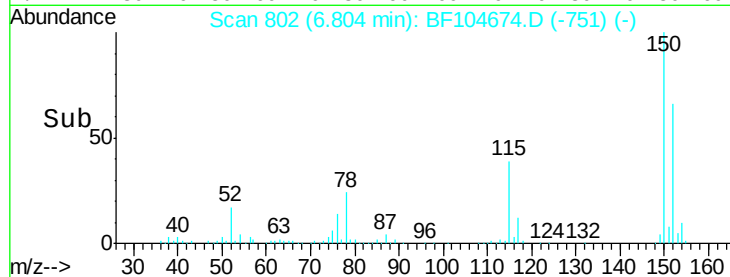
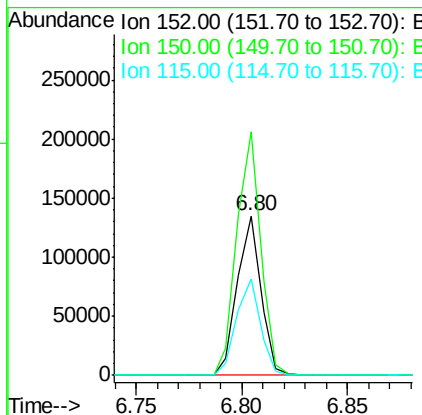
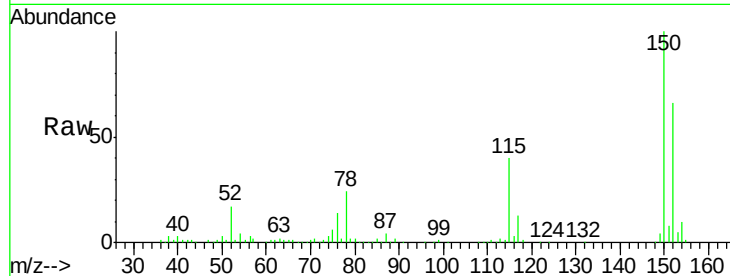
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.5 | 124.6 | 186.8 |
| 115     | 60.3  | 50.1  | 75.1  |

Manual Integrations  
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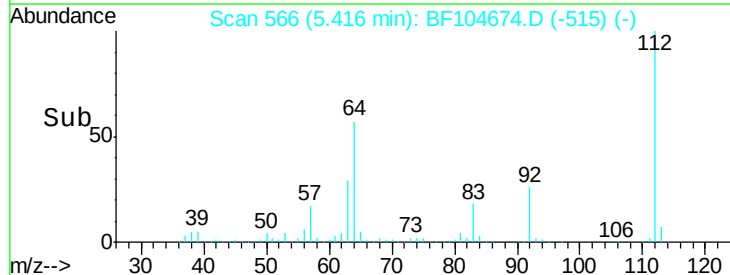
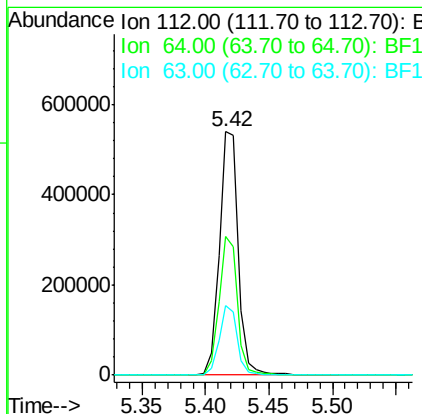
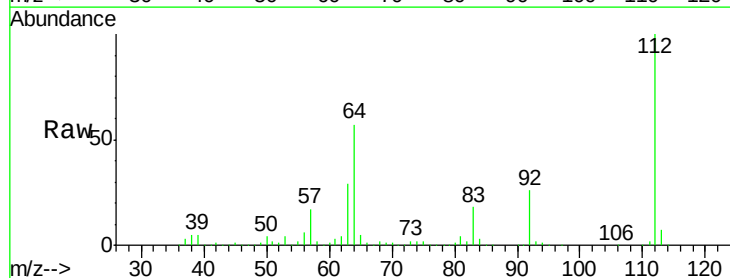
Sohil  
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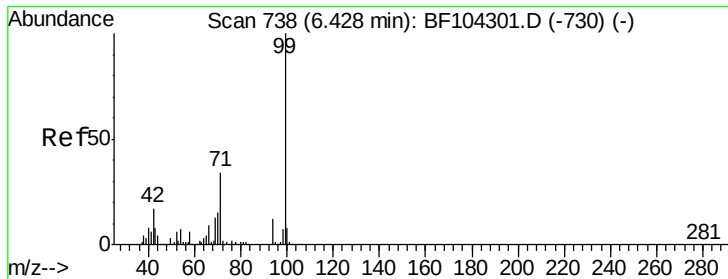


#5

2-Fluorophenol  
Concen: 82.492 ng  
RT: 5.42 min Scan# 566  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 47.9  | 71.9  |
| 63      | 28.6  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 80.372 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

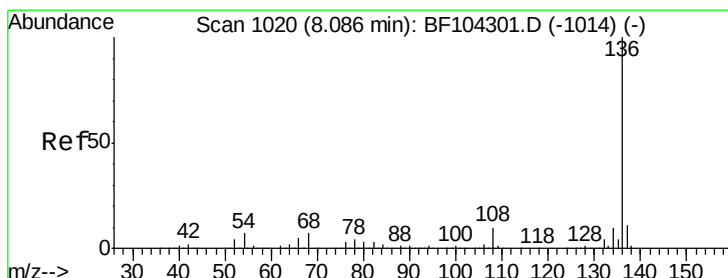
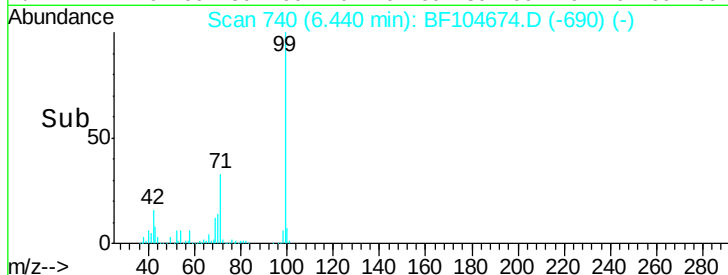
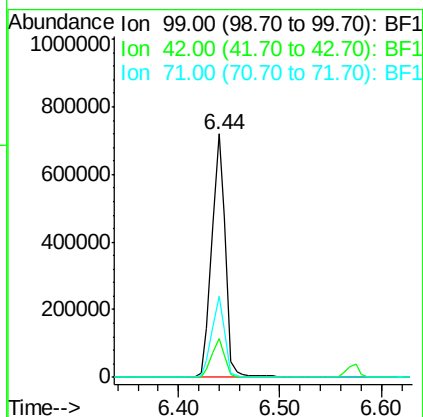
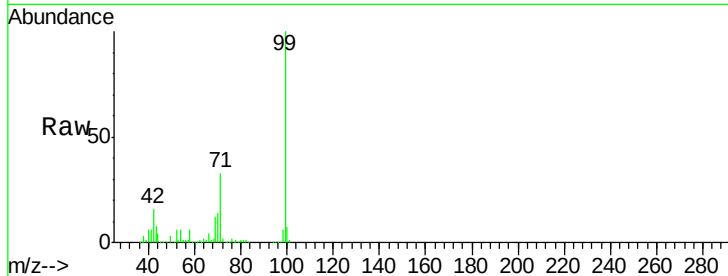
ClientSampleId :

SPOILS-ICTF-ARE

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 674858 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 15.7  | 14.5  | 21.7   |
| 71       | 33.2  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

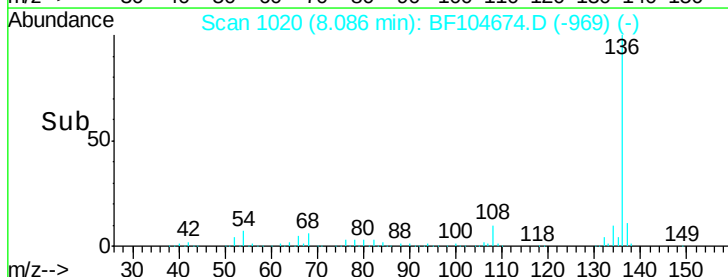
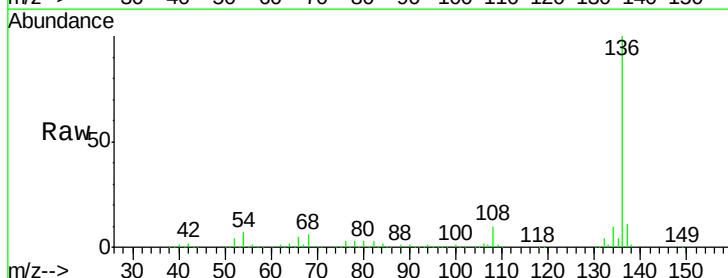
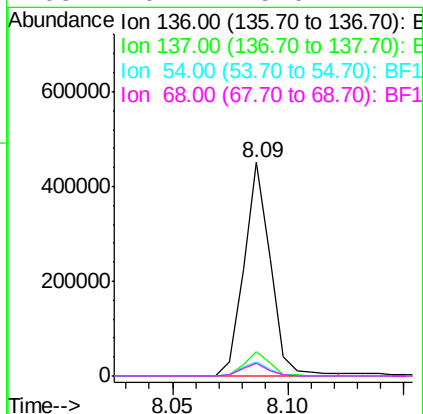
RT: 8.09 min Scan# 1020

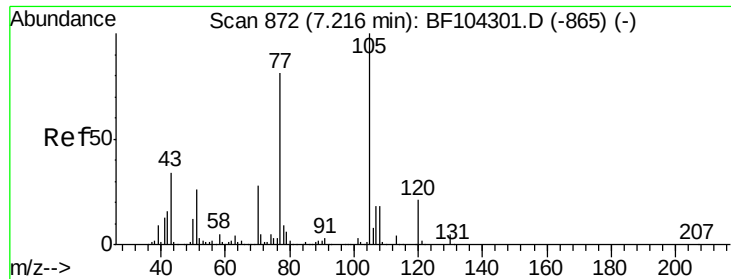
Delta R.T. -0.00 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 360028 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 6.9   | 6.6   | 9.8    |
| 68       | 6.1   | 5.0   | 7.4    |





#22

Acetophenone

Concen: 4.438 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

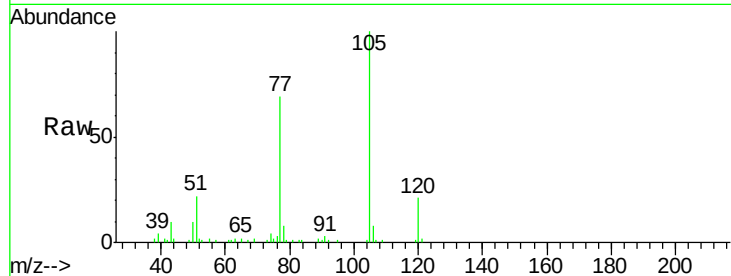
ClientSampleId :

SPOILS-ICTF-ARE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 39339 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 0.0   | 4.4   | 6.6#  |
| 51        | 21.5  | 22.3  | 33.5# |
| 120       | 20.7  | 16.9  | 25.3  |

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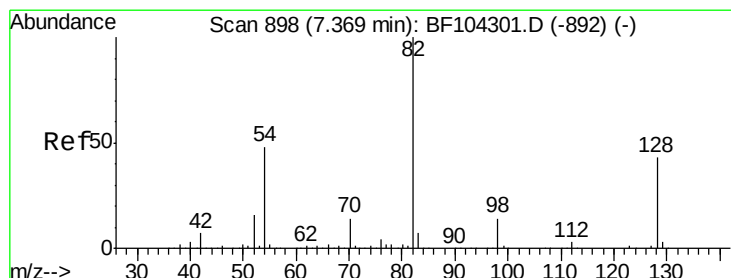
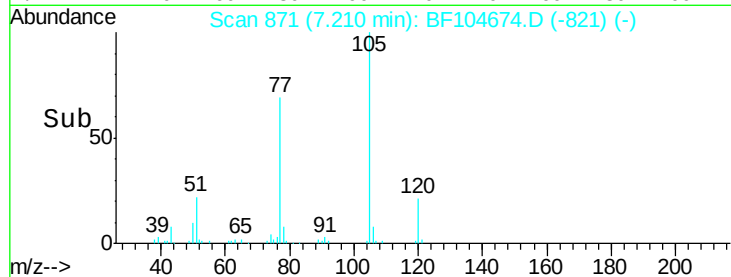
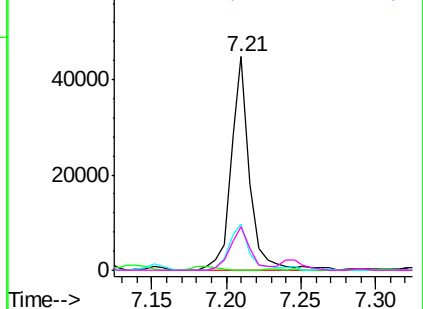


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 71.528 ng

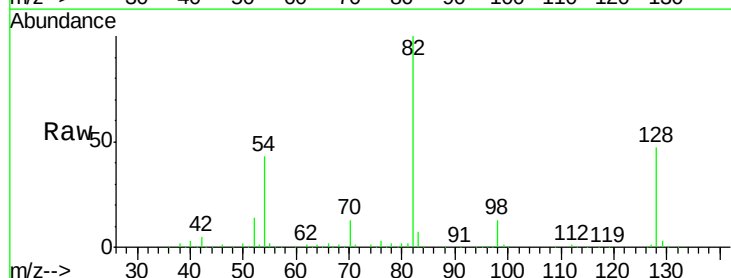
RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

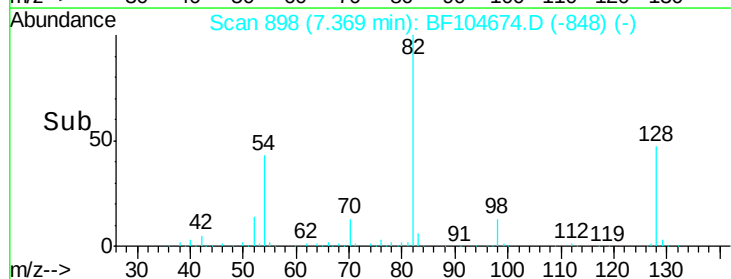
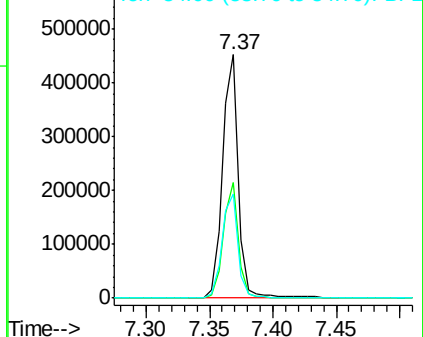
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 394376 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.4  | 36.1  | 54.1   |
| 54        | 42.6  | 41.4  | 62.2   |

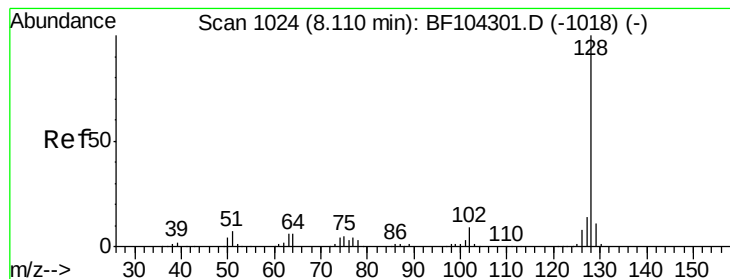


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 3.462 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

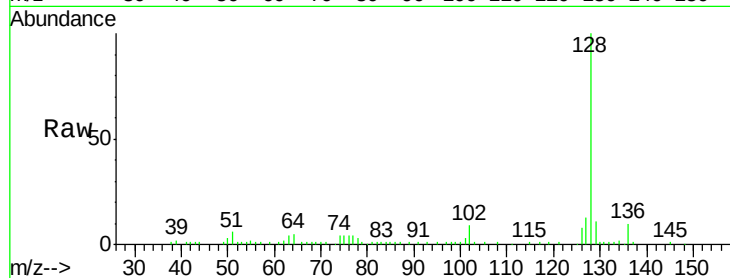
ClientSampleId :

SPOILS-ICTF-ARE

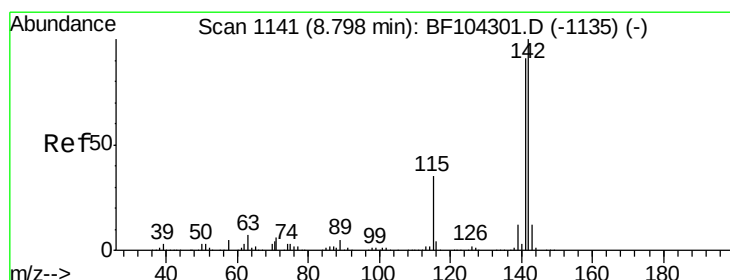
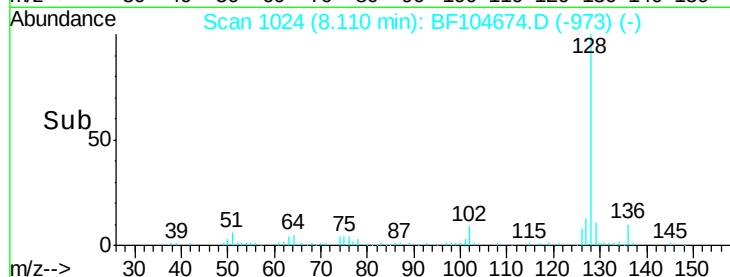
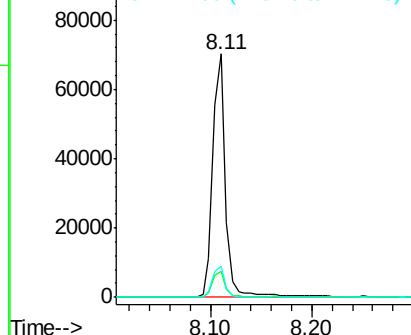
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 62072 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 10.6  | 8.8   | 13.2  |
| 127      | 12.9  | 10.9  | 16.3  |

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



#37

2-Methylnaphthalene

Concen: 2.706 ng

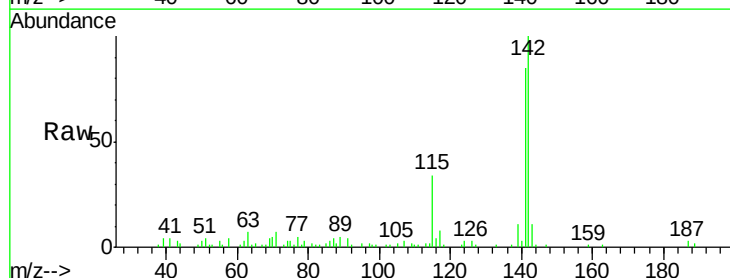
RT: 8.80 min Scan# 1141

Delta R.T. -0.01 min

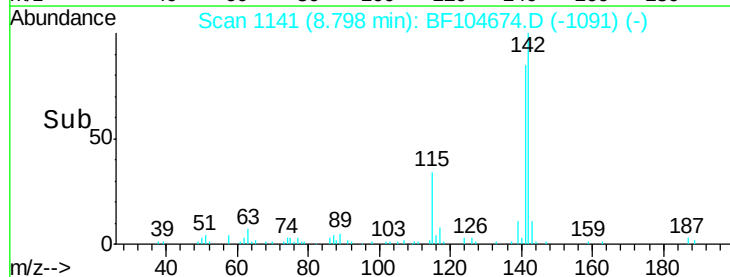
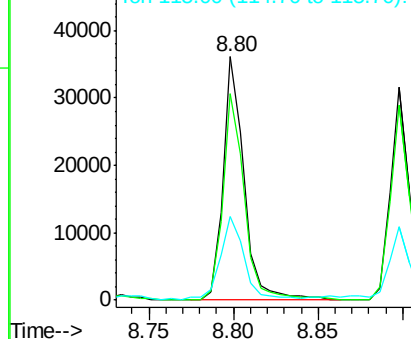
Lab File: BF104674.D

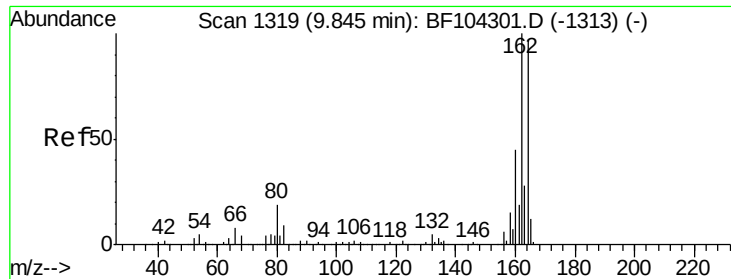
Acq: 20 Apr 2018 15:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 31381 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 84.8  | 70.8  | 106.2 |
| 115      | 34.2  | 26.1  | 39.1  |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

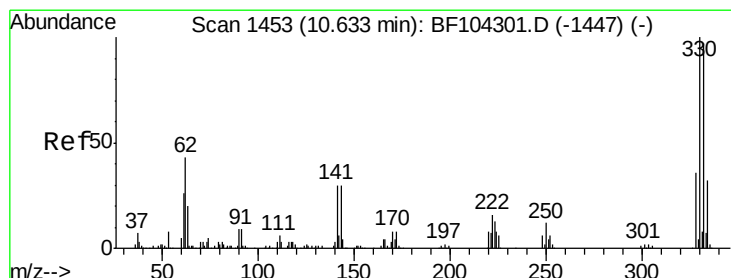
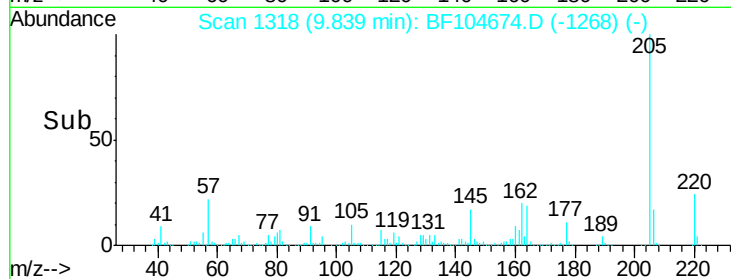
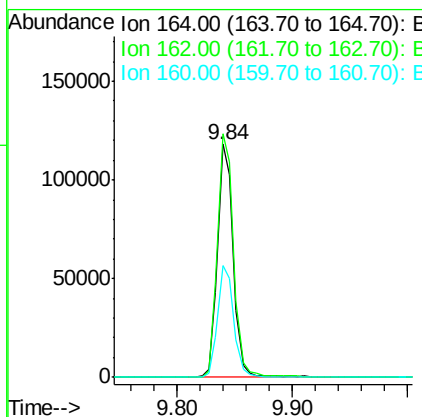
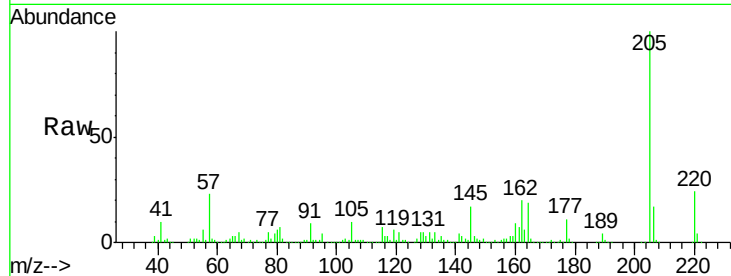
ClientSampleId :

SPOILS-ICTF-ARE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 112145 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.6 | 86.1  | 129.1  |
| 160       | 48.1  | 38.3  | 57.5   |

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#41

2,4,6-Tribromophenol

Concen: 110.076 ng

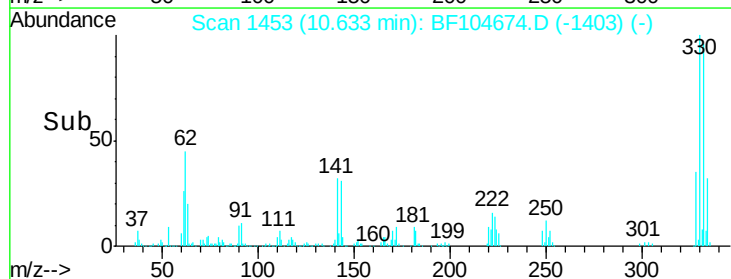
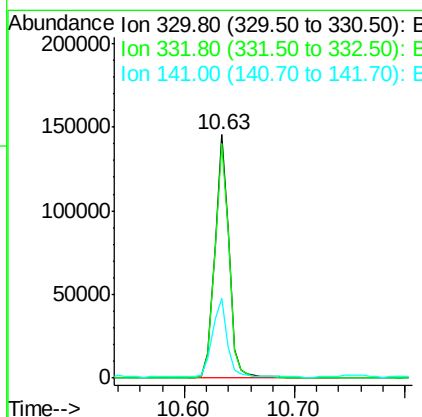
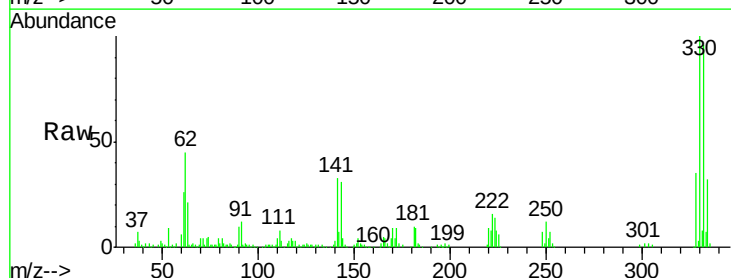
RT: 10.63 min Scan# 1453

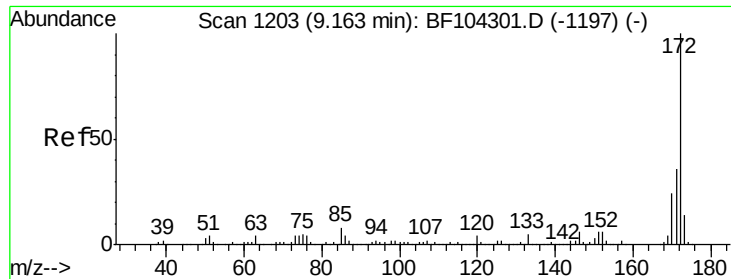
Delta R.T. -0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 128053 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.1  | 77.0  | 115.6  |
| 141       | 34.2  | 29.9  | 44.9   |





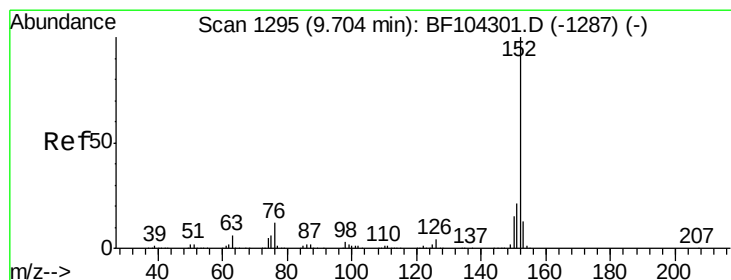
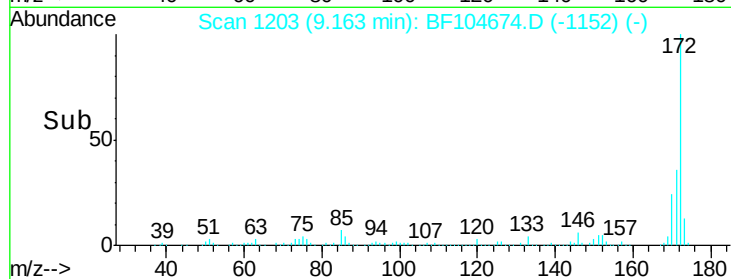
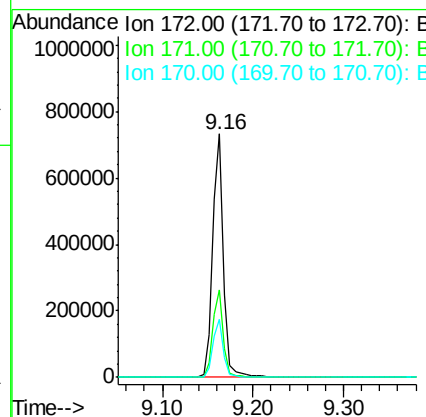
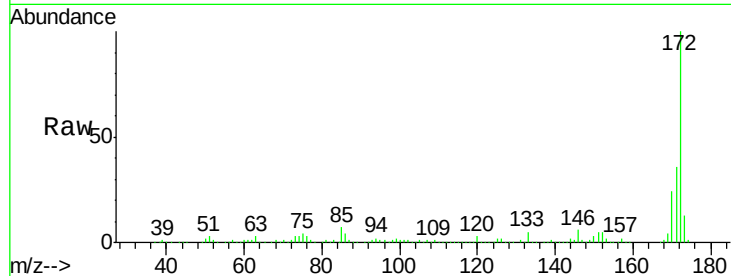
#44  
 2-Fluorobiphenyl  
 Concen: 87.473 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.00 min  
 Lab File: BF104674.D  
 Acq: 20 Apr 2018 15:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 23.8  | 19.6  | 29.4  |

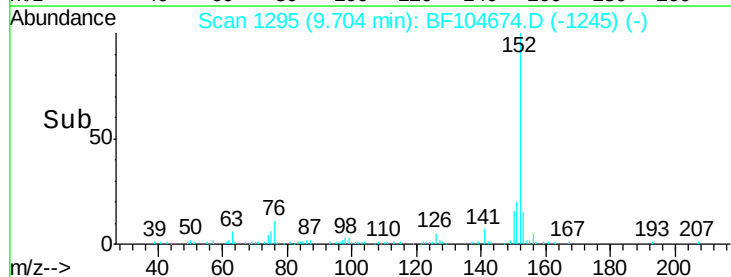
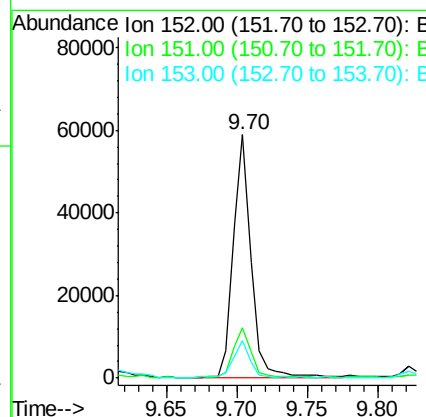
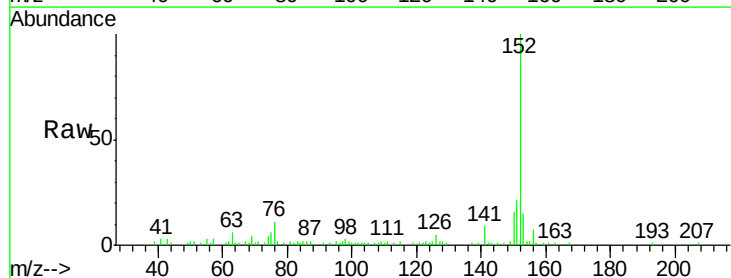
Manual Integrations  
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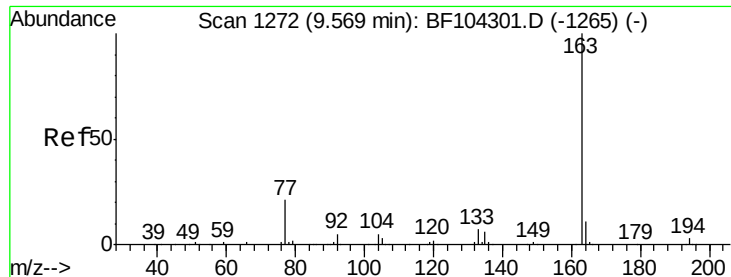


#48  
 Acenaphthylene  
 Concen: 4.464 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.01 min  
 Lab File: BF104674.D  
 Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.5  | 16.3  | 24.5  |
| 153     | 15.2  | 10.7  | 16.1  |







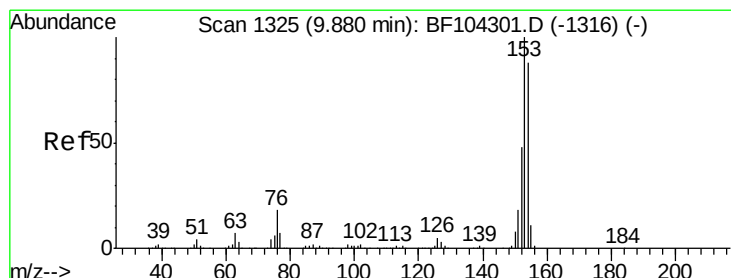
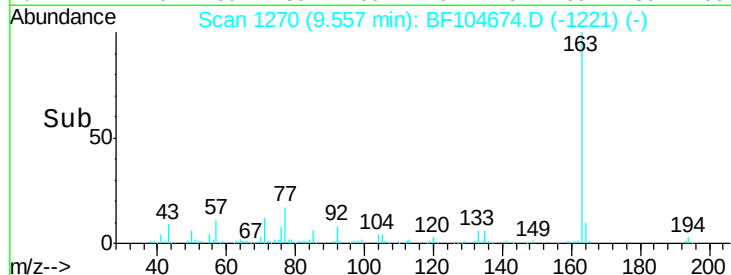
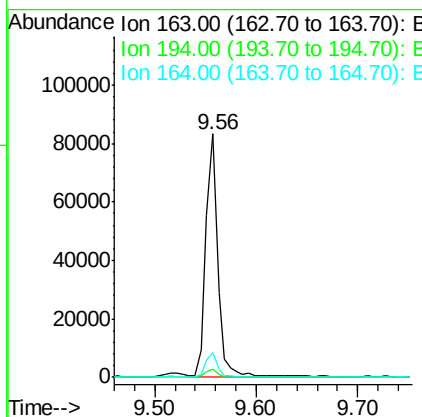
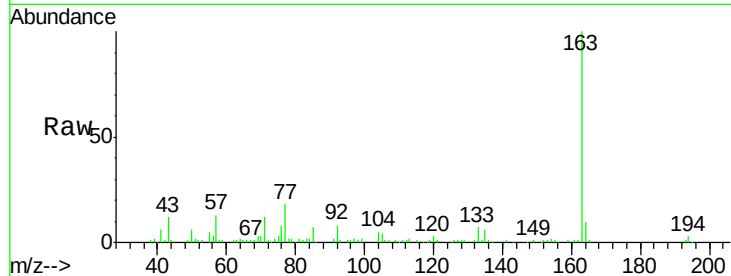
#49  
Dimethylphthalate  
Concen: 7.912 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.7   | 4.1   |
| 164     | 10.1  | 8.2   | 12.2  |

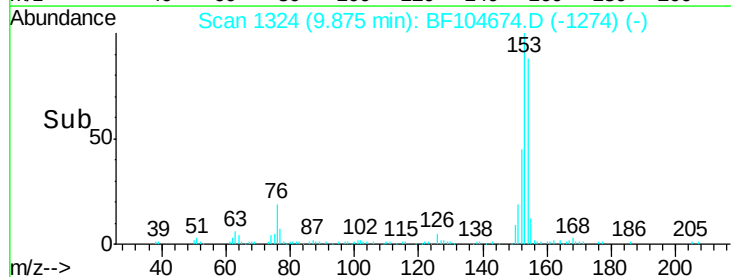
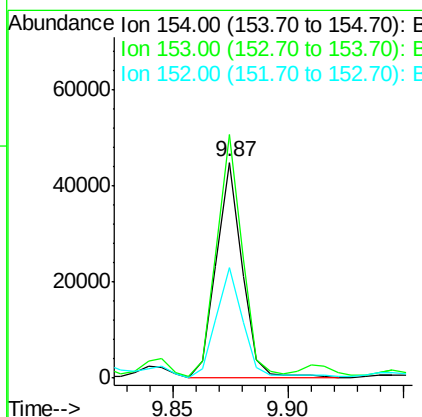
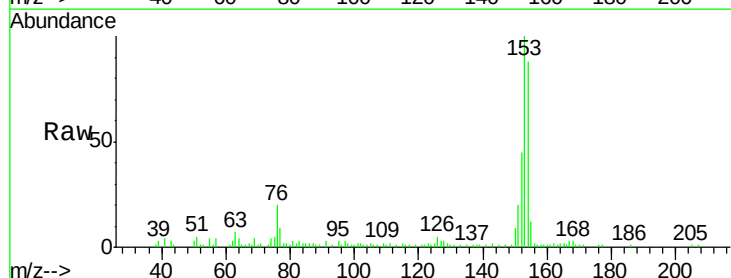
Manual Integrations  
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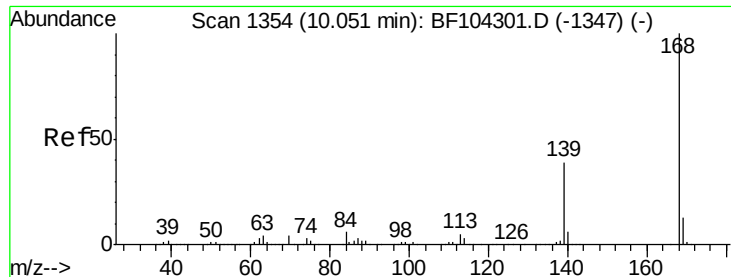
Sohil  
4/23/2018 2:18:19 PM



#51  
Acenaphthene  
Concen: 4.955 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.0 | 91.2  | 136.8 |
| 152     | 51.1  | 43.8  | 65.8  |





#54

Dibenzenofuran

Concen: 4.168 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

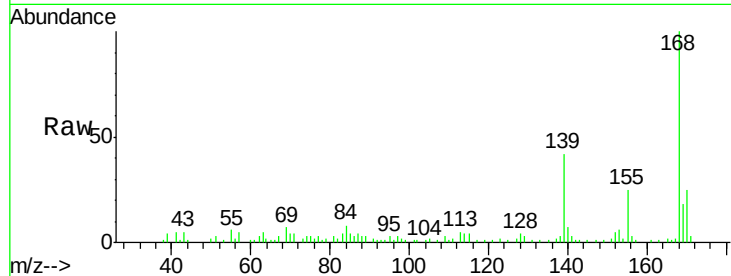
ClientSampleId :

SPOILS-ICTF-ARE

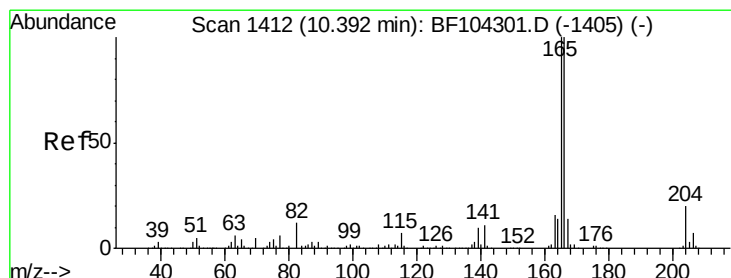
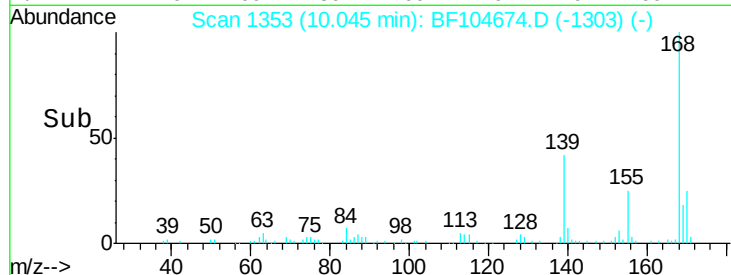
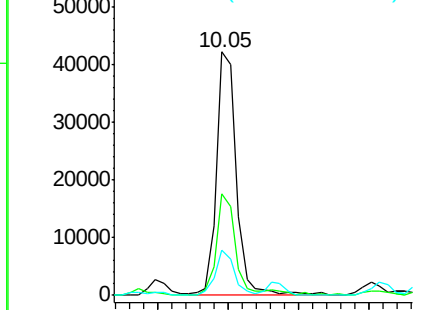
|             |       |            |
|-------------|-------|------------|
| Tot Ion:168 | Resp: | 41377      |
| Ion Ratio   | Lower | Upper      |
| 168         | 100   |            |
| 139         | 41.7  | 30.1 45.1  |
| 169         | 18.3  | 10.9 16.3# |

Manual Integrations  
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Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 6.310 ng

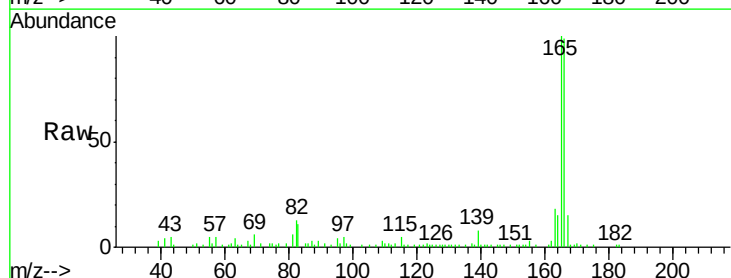
RT: 10.39 min Scan# 1412

Delta R.T. -0.00 min

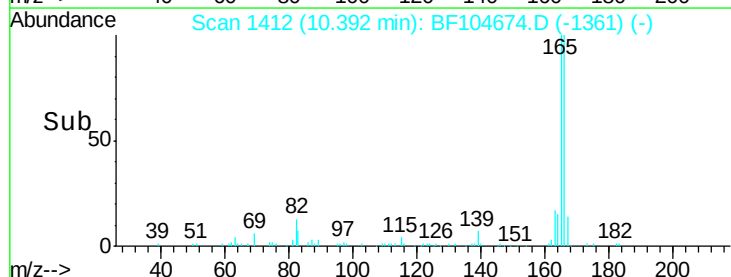
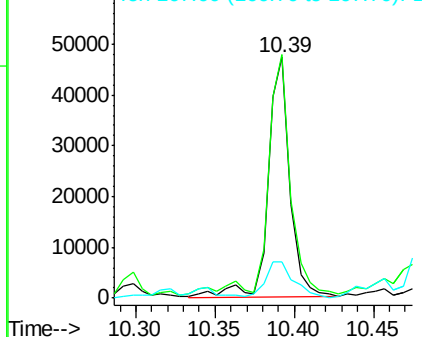
Lab File: BF104674.D

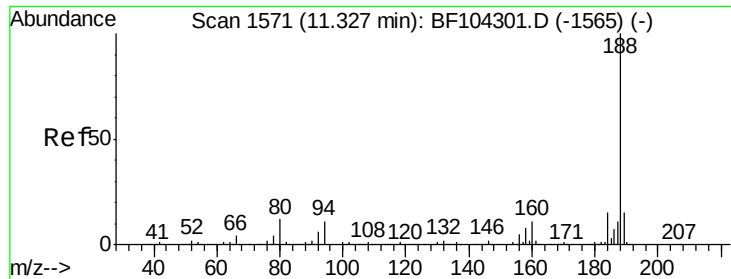
Acq: 20 Apr 2018 15:14

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:166 | Resp: | 45596      |
| Ion Ratio   | Lower | Upper      |
| 166         | 100   |            |
| 165         | 101.2 | 79.8 119.8 |
| 167         | 15.1  | 10.6 16.0  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





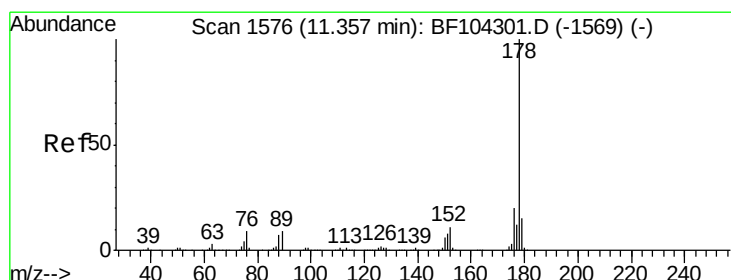
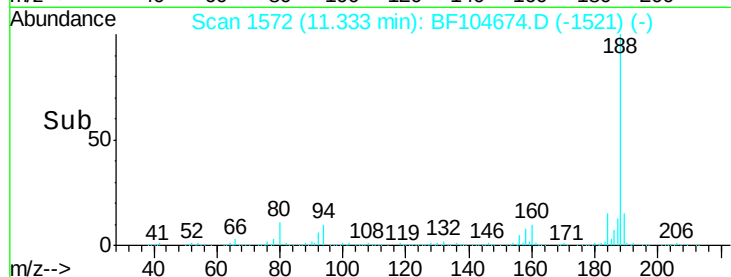
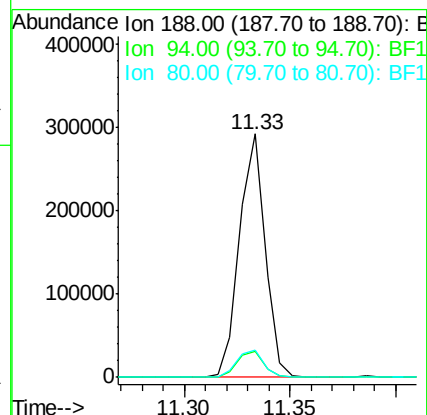
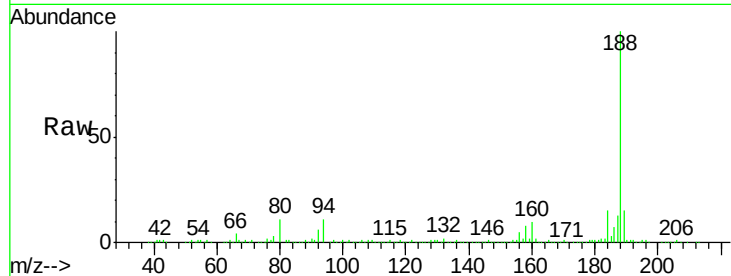
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.6  | 8.5        | 12.7  |
| 80      | 11.1  | 9.2        | 13.8  |

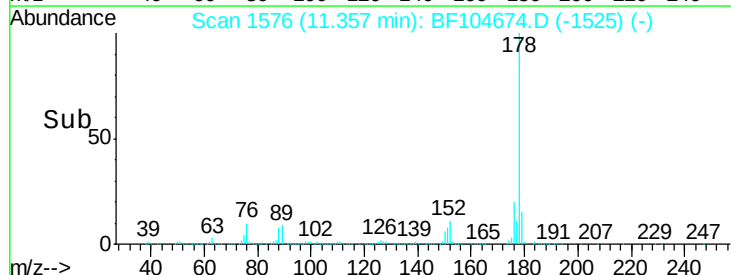
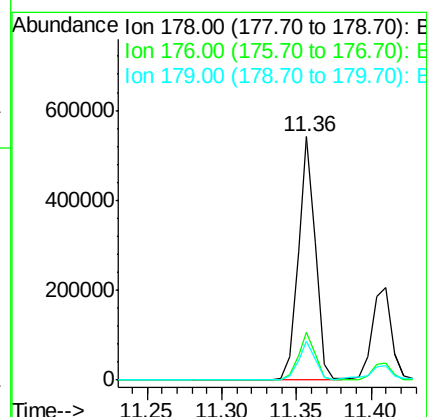
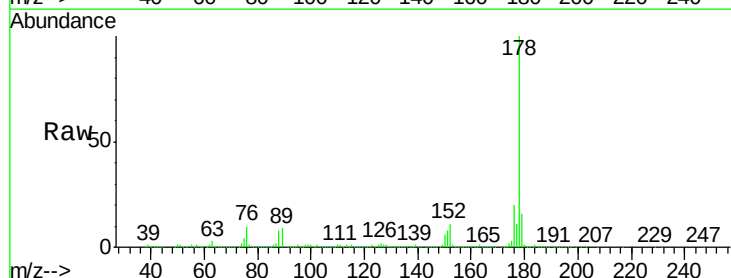
Manual Integrations  
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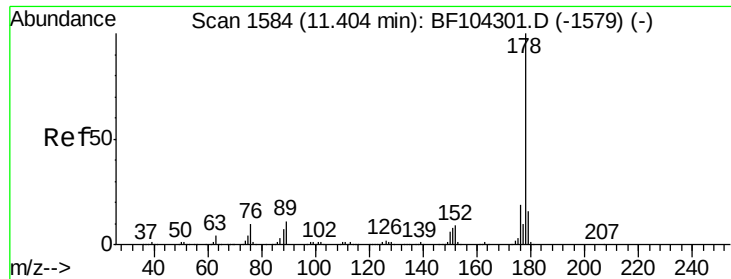
Sohil  
4/23/2018 2:18:19 PM



#70  
Phenanthrene  
Concen: 31.739 ng  
RT: 11.36 min Scan# 1576  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.8  | 15.8       | 23.8  |
| 179     | 15.7  | 13.0       | 19.6  |





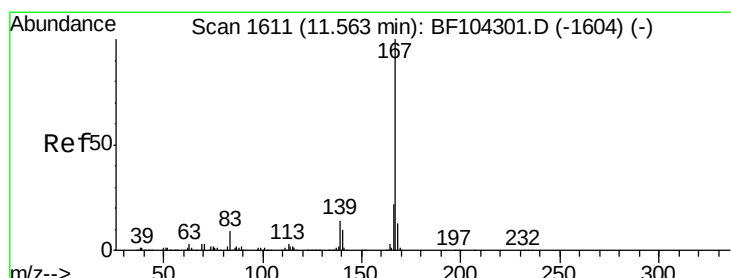
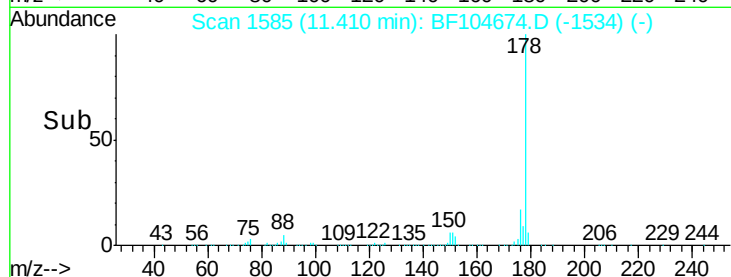
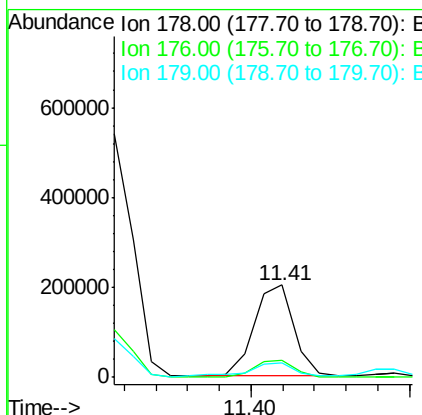
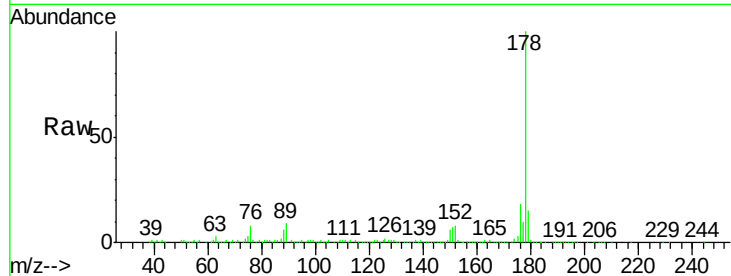
#71  
 Anthracene  
 Concen: 12.525 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.00 min  
 Lab File: BF104674.D  
 Acq: 20 Apr 2018 15:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 15.4  | 23.2  |
| 179     | 15.4  | 12.6  | 19.0  |

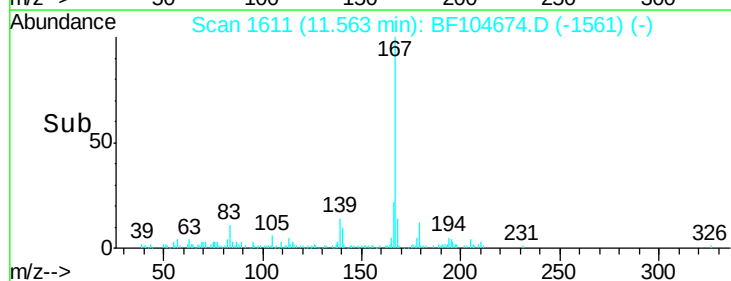
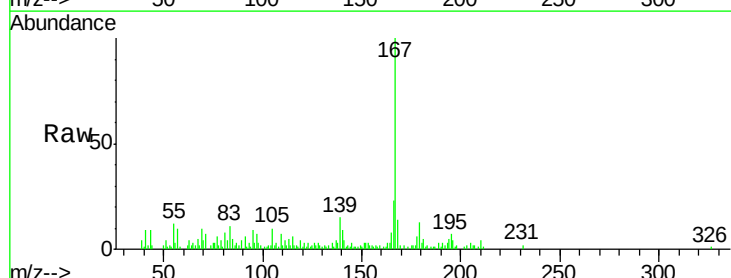
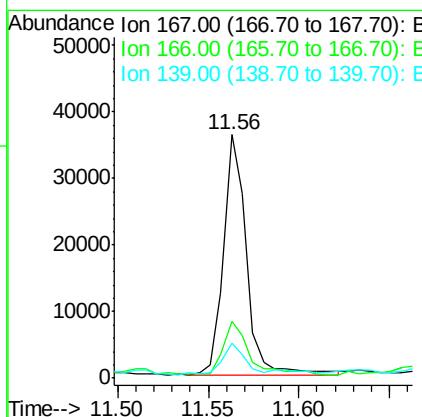
Manual Integrations  
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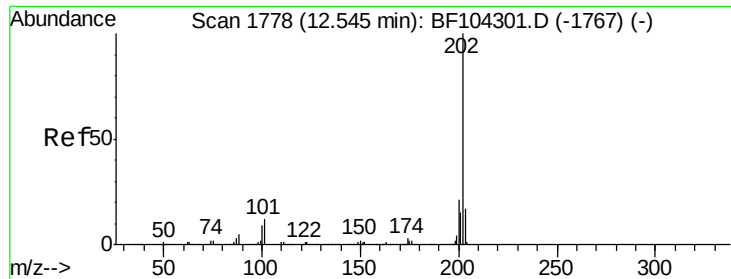
Sohil  
 4/23/2018 2:18:19 PM



#72  
 Carbazole  
 Concen: 2.368 ng  
 RT: 11.56 min Scan# 1611  
 Delta R.T. -0.01 min  
 Lab File: BF104674.D  
 Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 23.1  | 17.6  | 26.4  |
| 139     | 14.6  | 10.9  | 16.3  |





#74

Fluoranthene

Concen: 52.276 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

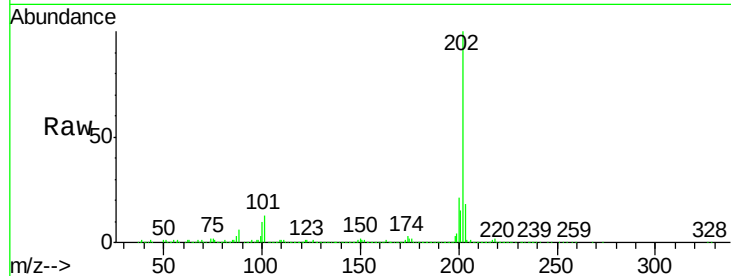
ClientSampleId :

SPOILS-ICTF-ARE

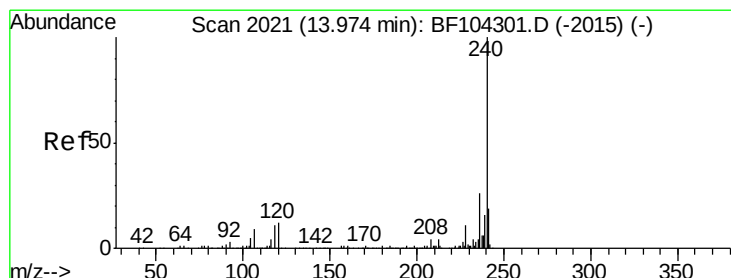
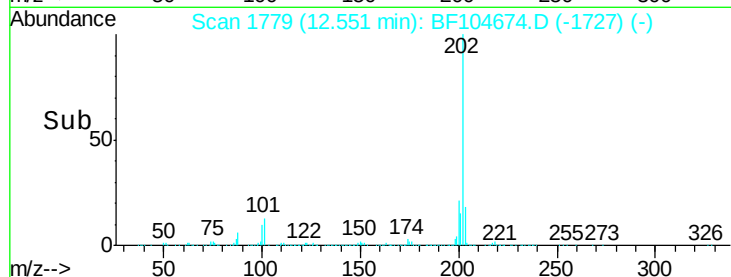
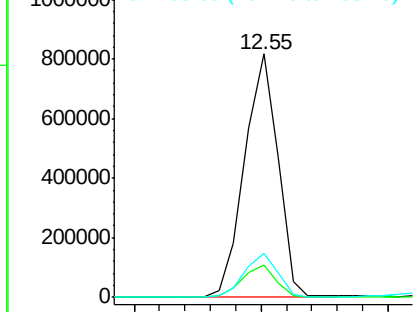
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.1  | 0.0        | 34.1  |
| 203     | 17.8  | 0.0        | 38.1  |

Manual Integrations  
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Sohil  
4/23/2018 2:18:19 PM



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



#75

Chrysene-d12

Concen: 20.000 ng

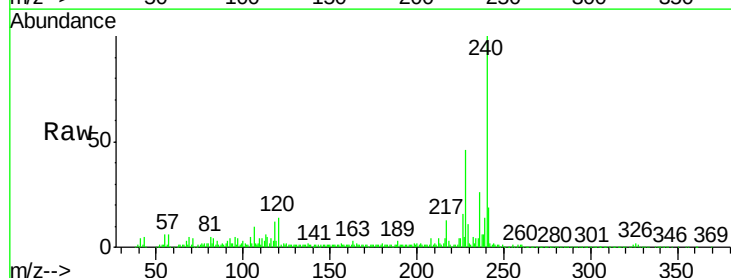
RT: 13.98 min Scan# 2022

Delta R.T. -0.00 min

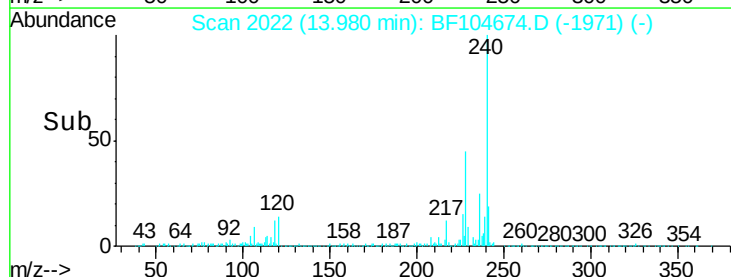
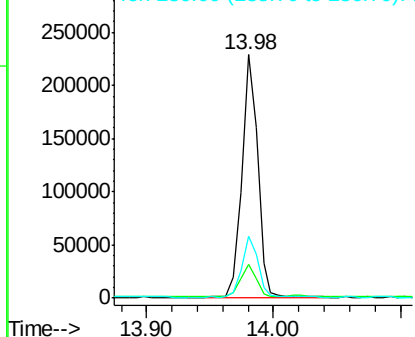
Lab File: BF104674.D

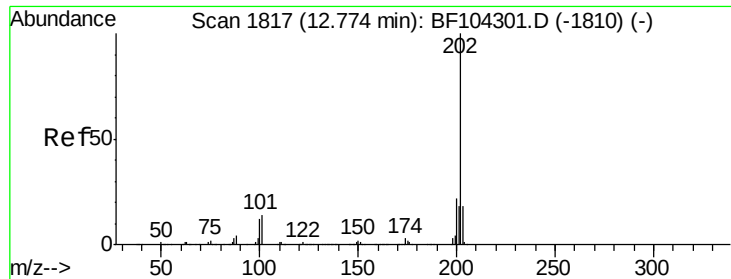
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.1  | 9.5        | 14.3  |
| 236     | 25.5  | 20.7       | 31.1  |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





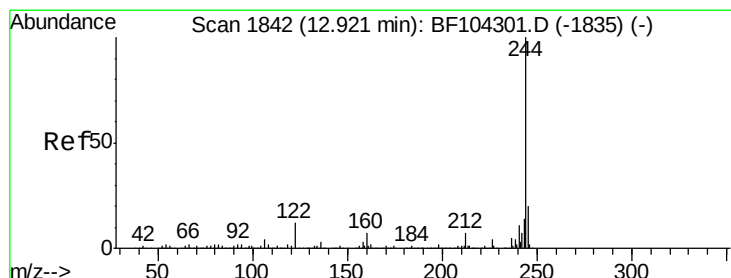
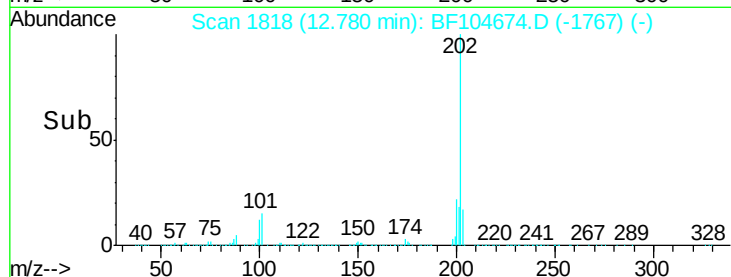
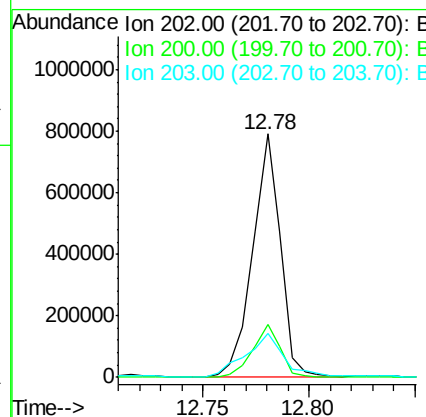
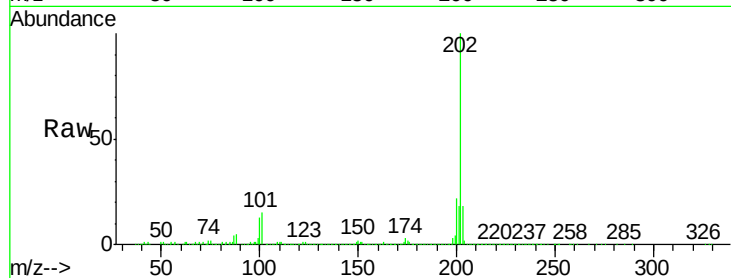
#77  
Pvrene  
Concen: 50.333 ng  
RT: 12.78 min Scan# 1818  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 17.4  | 26.2  |
| 203     | 18.0  | 14.3  | 21.5  |

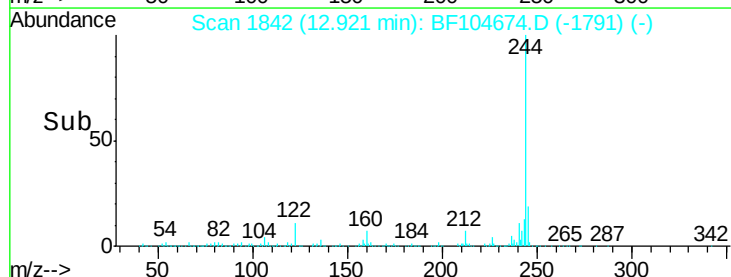
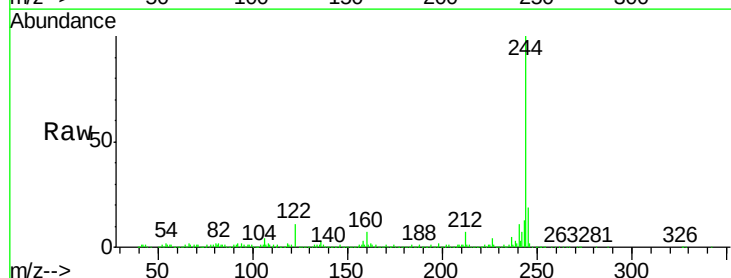
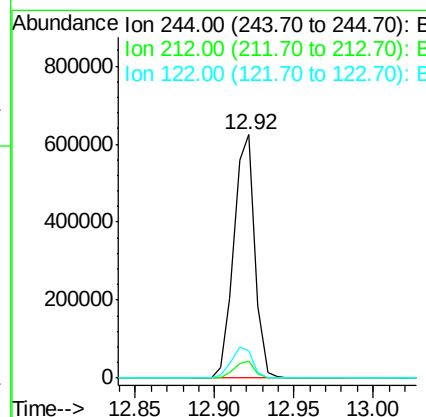
Manual Integrations  
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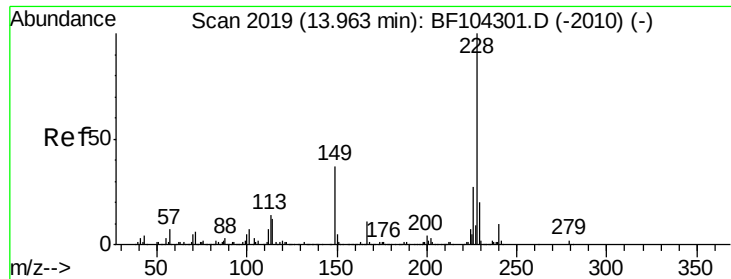
Sohil  
4/23/2018 2:18:19 PM



#78  
Terphenyl-d14  
Concen: 67.758 ng  
RT: 12.92 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 11.4  | 11.0  | 16.4  |





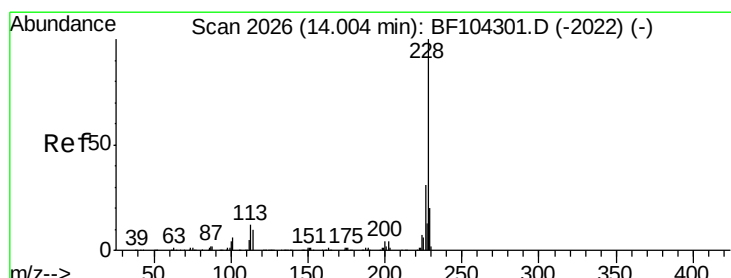
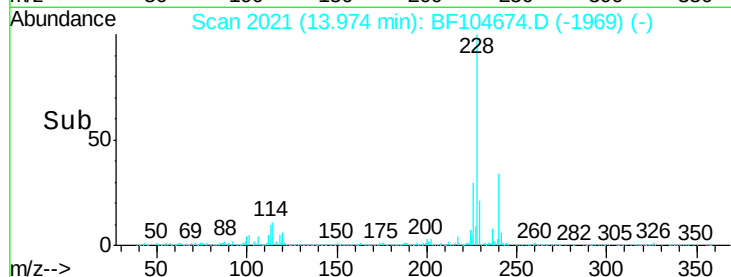
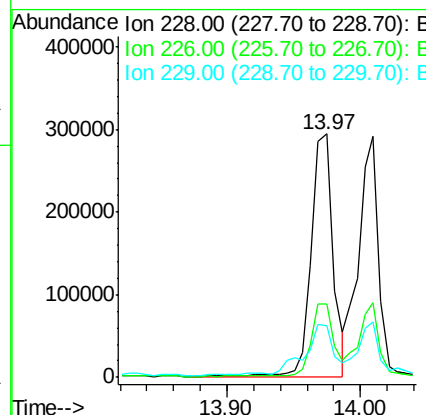
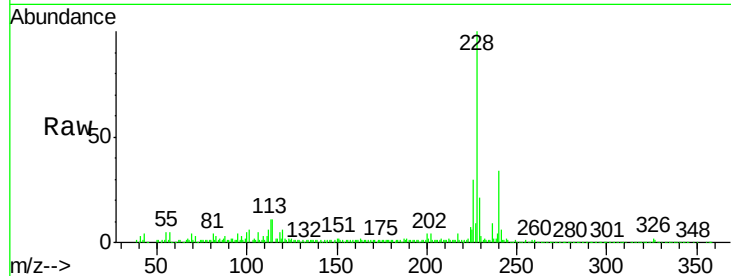
#80  
Benzo(a)anthracene  
Concen: 28.145 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. 0.01 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 22.6  | 33.8  |
| 229     | 21.4  | 15.8  | 23.6  |

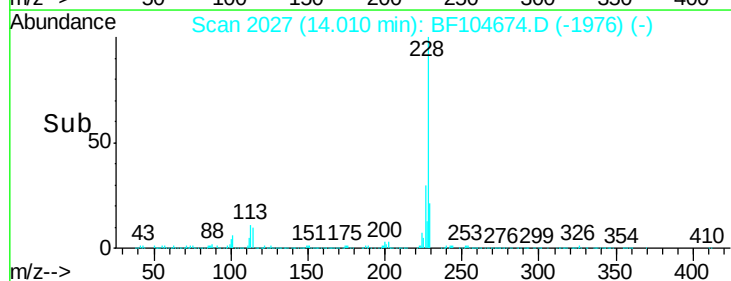
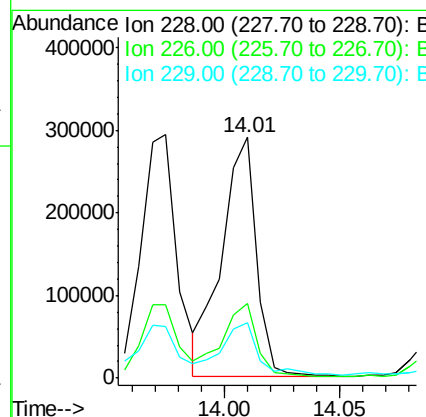
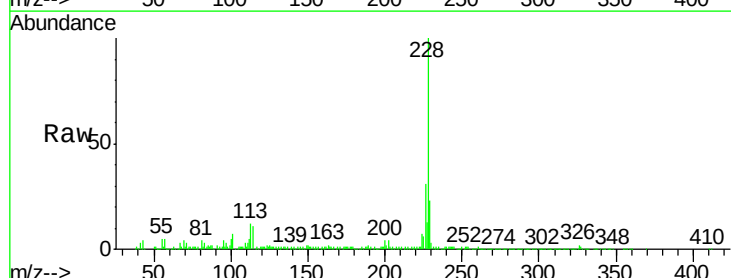
Manual Integrations  
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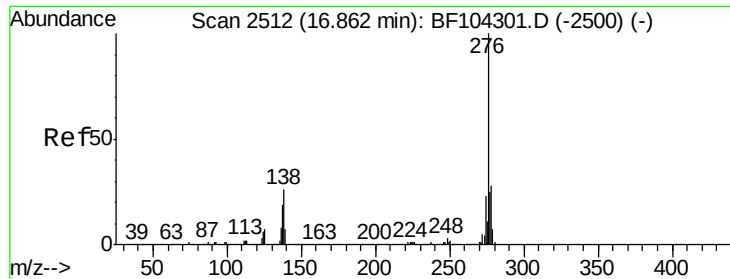
Sohil  
4/23/2018 2:18:19 PM



#82  
Chrysene  
Concen: 25.643 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.00 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 25.0  | 37.6  |
| 229     | 22.8  | 16.2  | 24.4  |





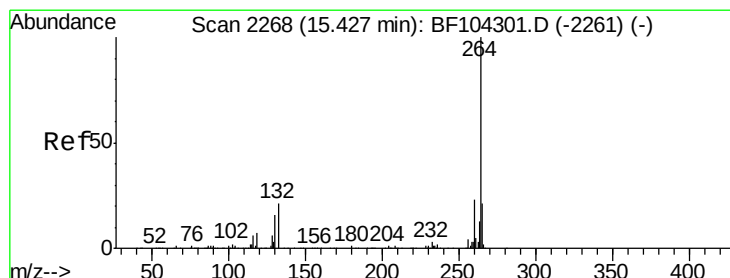
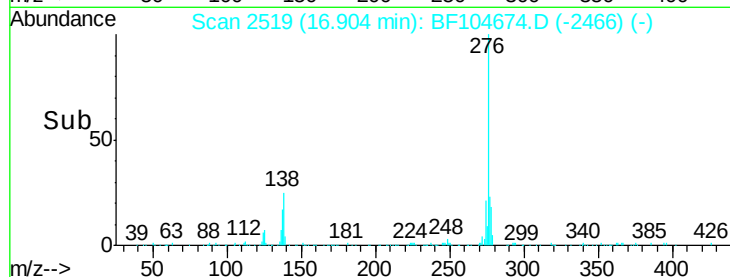
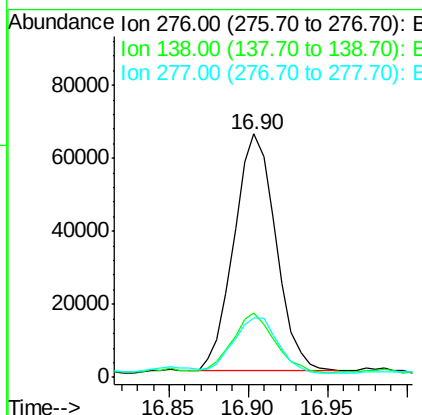
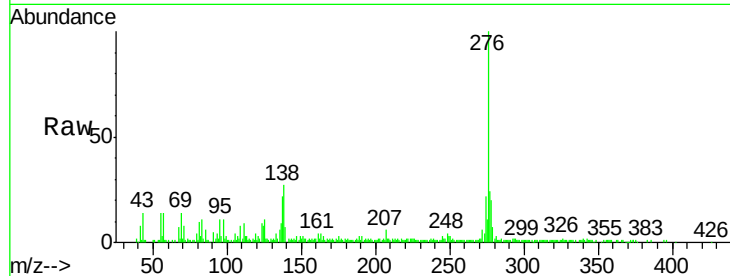
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 11.820 ng  
RT: 16.90 min Scan# 2519  
Delta R.T. 0.01 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.8  | 25.0  | 37.6  |
| 277     | 25.5  | 20.1  | 30.1  |

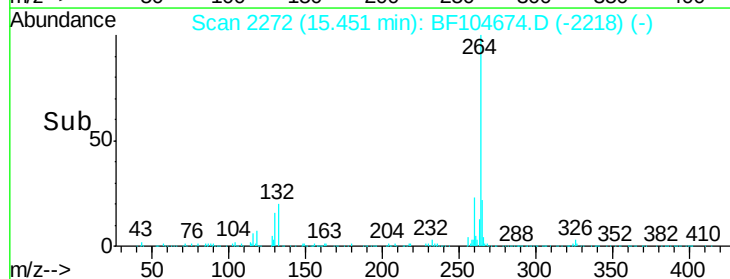
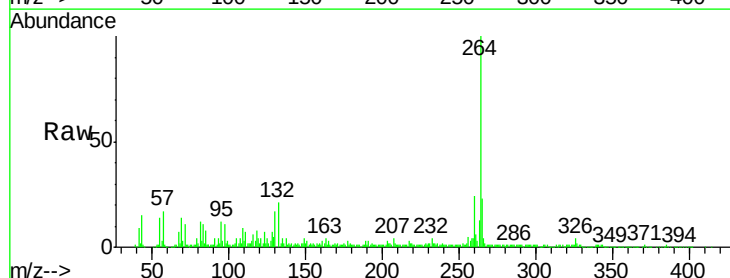
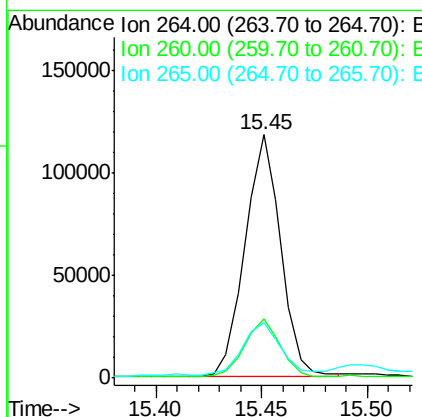
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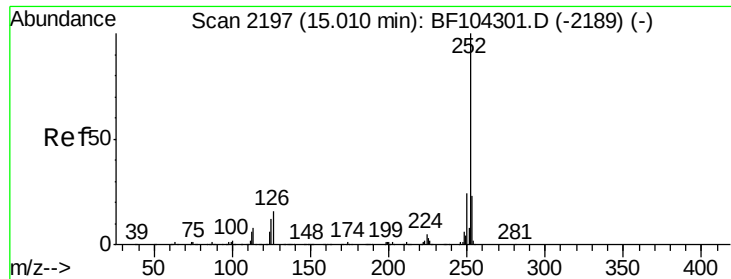


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. 0.02 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 22.8  | 17.5  | 26.3  |







#87

Benzo(b)fluoranthene

Concen: 37.181 ng m

RT: 15.03 min Scan# 2200

Delta R.T. 0.01 min

Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

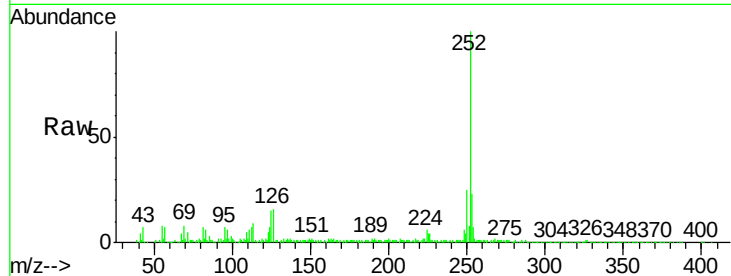
ClientSampleId :

SPOILS-ICTF-ARE

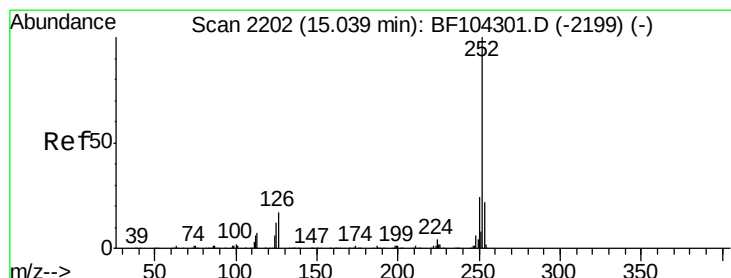
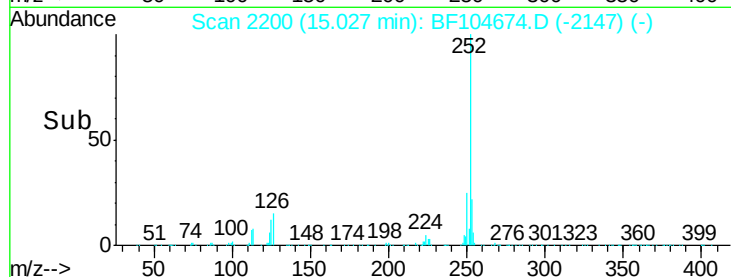
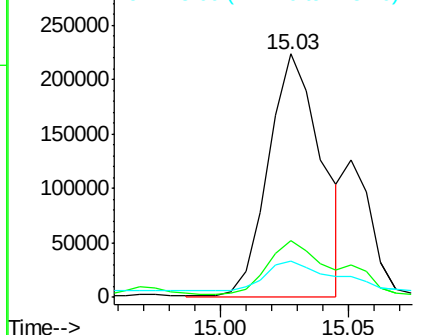
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 325209 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 17.0  | 25.6   |
| 125       | 15.1  | 9.0   | 13.6#  |

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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



#88

Benzo(k)fluoranthene

Concen: 11.547 ng m

RT: 15.05 min Scan# 2204

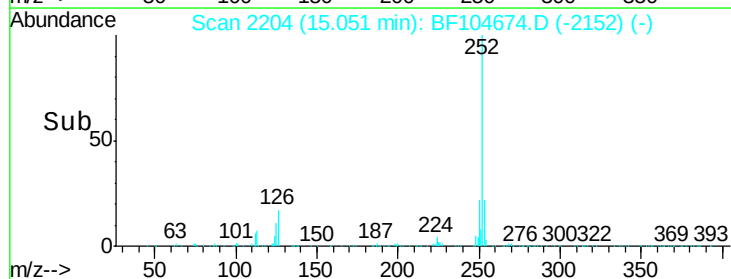
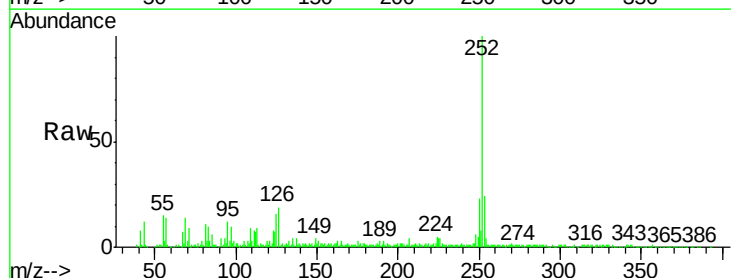
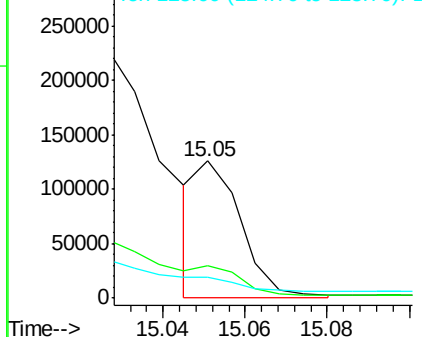
Delta R.T. 0.01 min

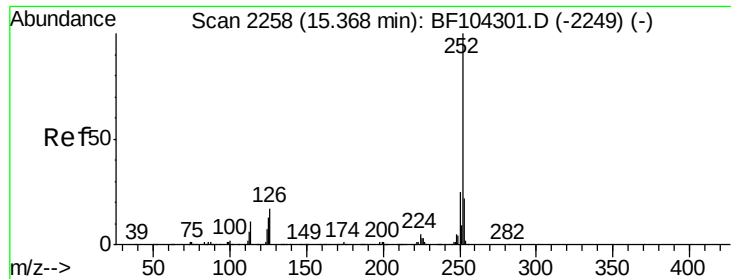
Lab File: BF104674.D

Acq: 20 Apr 2018 15:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 95355 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.6  | 17.9  | 26.9  |
| 125       | 15.6  | 10.2  | 15.2# |

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





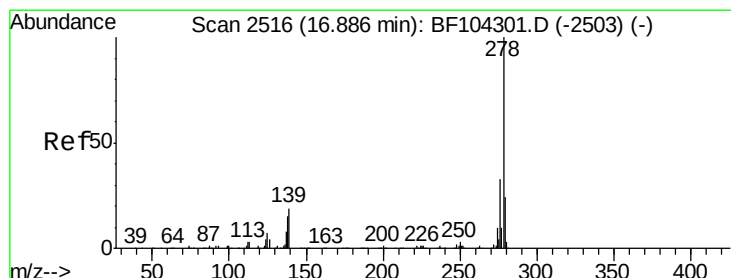
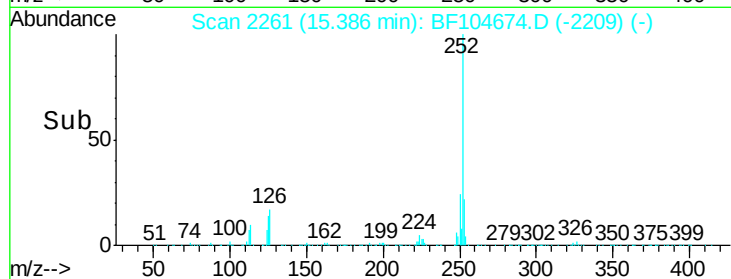
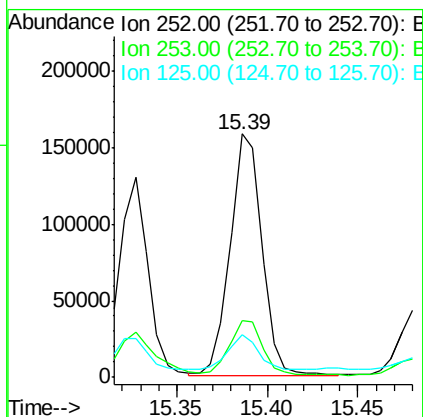
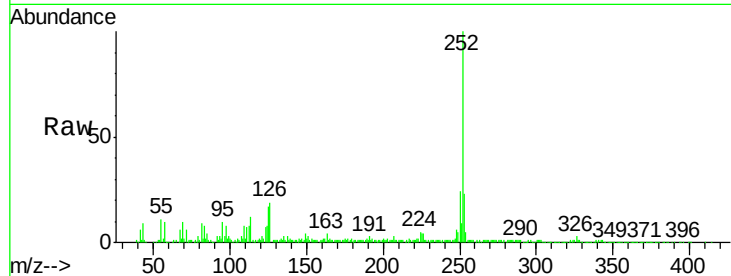
#89  
Benzo(a)pyrene  
Concen: 24.630 ng  
RT: 15.39 min Scan# 2261  
Delta R.T. 0.01 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
SPOILS-ICTF-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.1  | 25.7  |
| 125     | 17.3  | 9.8   | 14.6  |

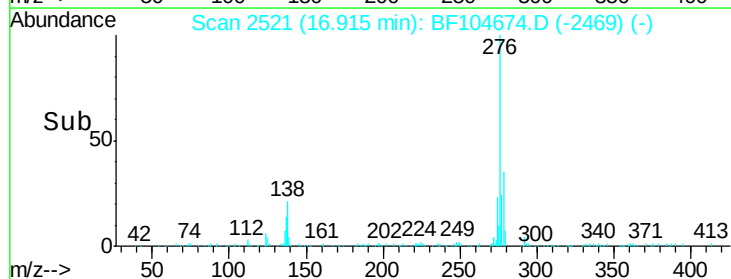
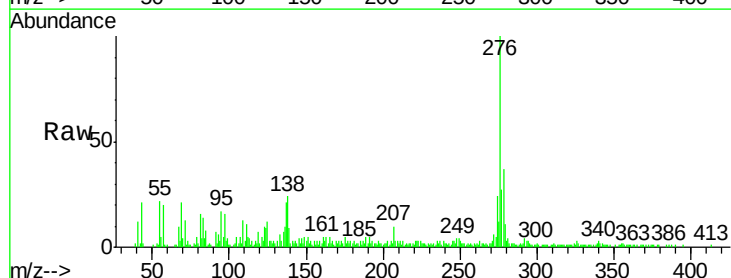
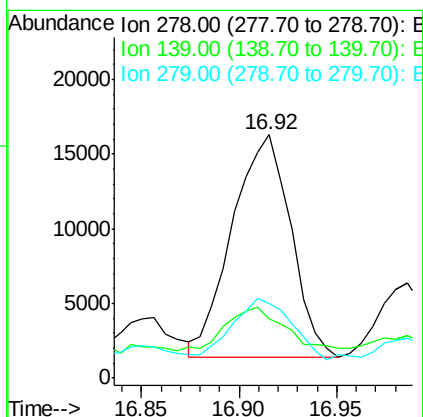
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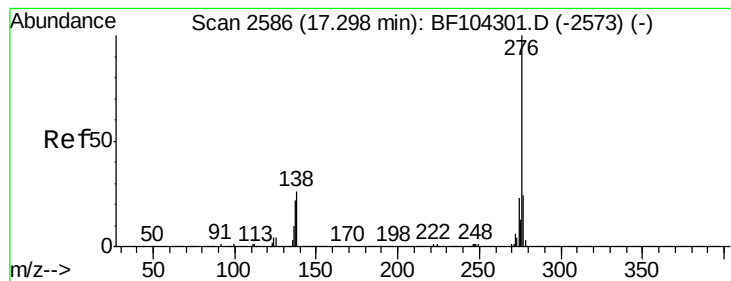
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#90  
Dibenzo(a,h)anthracene  
Concen: 4.828 ng  
RT: 16.92 min Scan# 2521  
Delta R.T. 0.01 min  
Lab File: BF104674.D  
Acq: 20 Apr 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.1  | 15.9  | 23.9  |
| 279     | 30.9  | 19.0  | 28.4  |





#91

Benzo(a,h,i)perylene

Concen: 19.289 ng

RT: 17.34 min Scan# 2594

Delta R.T. 0.01 min

Lab File: BF104674.D

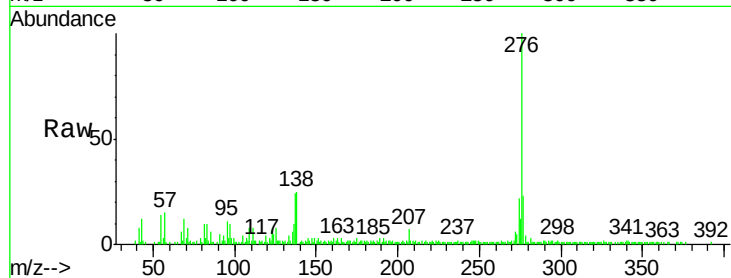
Acq: 20 Apr 2018 15:14

Instrument :

BNA\_F

ClientSampleId :

SPOILS-ICTF-ARE



| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 120118  | 276 | 100   |       |       |
|         | 277 | 23.4  | 17.9  | 26.9  |
|         | 138 | 25.2  | 21.8  | 32.8  |

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