

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\  
 Data File : BF108384.D  
 Acq On : 22 Aug 2018 15:46  
 Operator : JU/SJ  
 Sample : J4573-03 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T25-COMP

Manual Integrations  
 APPROVED

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Quant Time: Aug 23 11:07:20 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 22 11:01:45 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.00  | 152  | 160048   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.28  | 136  | 631073   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.05 | 164  | 332126   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.54 | 188  | 661043   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.19 | 240  | 432289   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.75 | 264  | 354864   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.62  | 112  | 174055   | 19.69 | ng    | -0.01    |
| 7) Phenol-d6                | 6.61  | 99   | 237001   | 20.17 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.55  | 82   | 153745   | 13.59 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.84 | 330  | 71087    | 21.46 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 254083   | 12.28 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.12 | 244  | 273581   | 16.09 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 31) Naphthalene             | 8.31  | 128  | 115564   | 4.027 | ng    | 98       |
| 49) Dimethylphthalate       | 9.75  | 163  | 46712    | 2.019 | ng    | # 98     |
| 70) Phenanthrene            | 11.57 | 178  | 193341   | 6.201 | ng    | 98       |
| 74) Fluoranthene            | 12.76 | 202  | 245941   | 7.228 | ng    | 95       |
| 77) Pyrene                  | 12.99 | 202  | 258418   | 9.442 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.18 | 228  | 96010    | 3.870 | ng    | 95       |
| 82) Chrysene                | 14.22 | 228  | 83508    | 3.672 | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.35 | 276  | 67920    | 3.446 | ng    | # 89     |
| 87) Benzo(b)fluoranthene    | 15.28 | 252  | 104743m  | 4.940 | ng    |          |
| 89) Benzo(a)pyrene          | 15.68 | 252  | 78186    | 4.118 | ng    | 97       |
| 91) Benzo(g,h,i)perylene    | 17.85 | 276  | 109291   | 7.065 | ng    | # 90     |

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

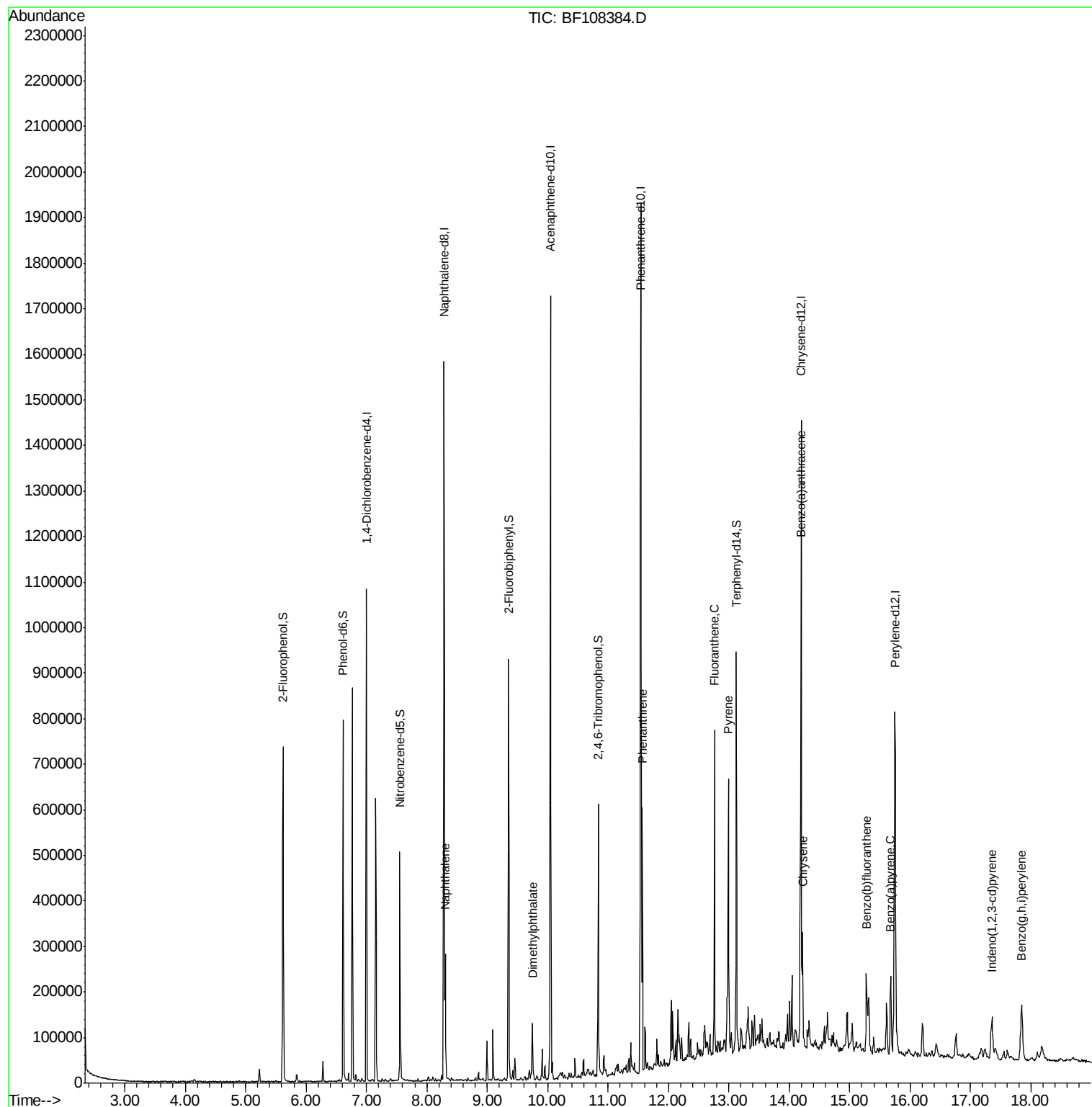
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\  
Data File : BF108384.D  
Acq On : 22 Aug 2018 15:46  
Operator : JU/SJ  
Sample : J4573-03 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

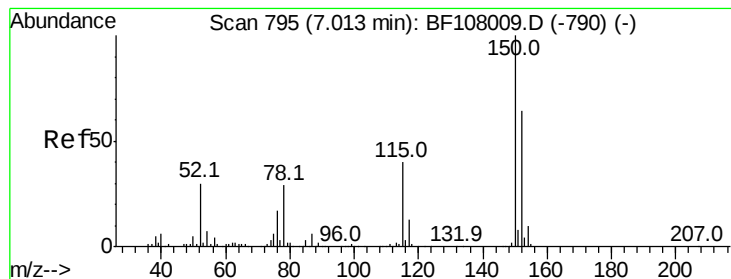
Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

Quant Time: Aug 23 11:07:20 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 22 11:01:45 2018  
Response via : Initial Calibration

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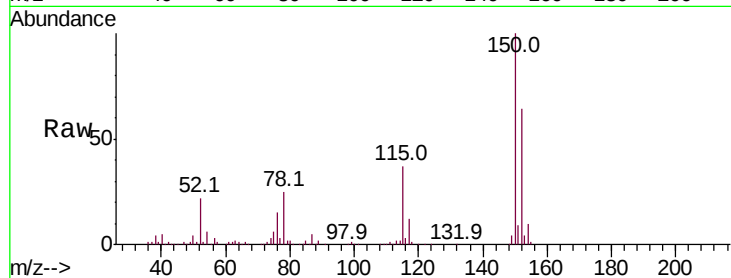
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 793  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.3 | 124.6 | 186.8 |
| 115     | 58.5  | 50.1  | 75.1  |

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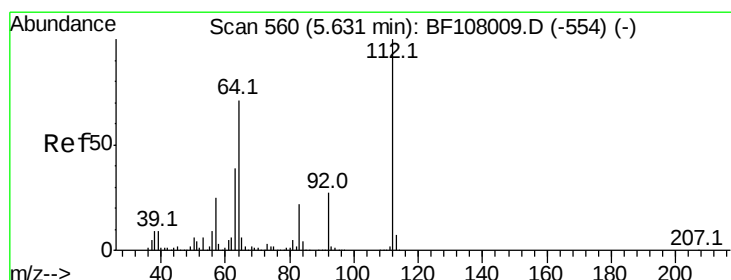
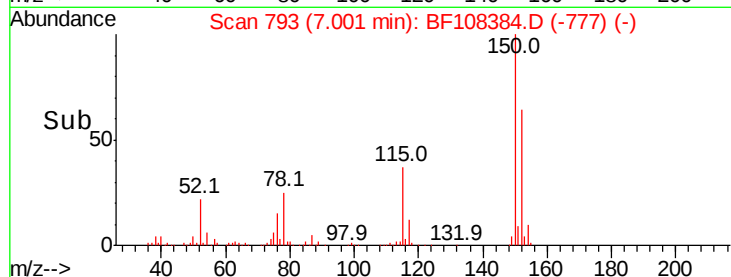
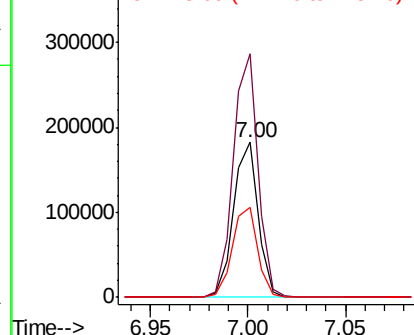


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5  
2-Fluorophenol  
Concen: 19.689 ng  
RT: 5.62 min Scan# 558  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

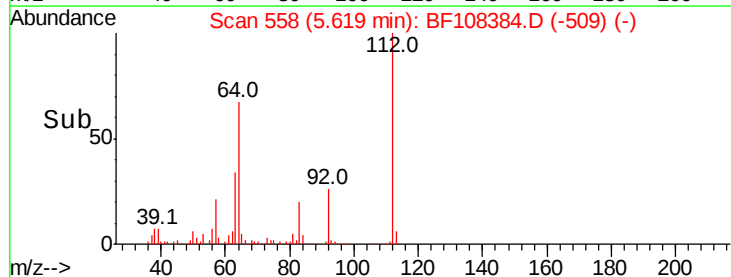
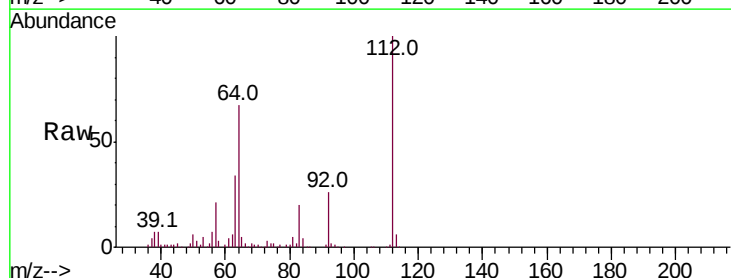
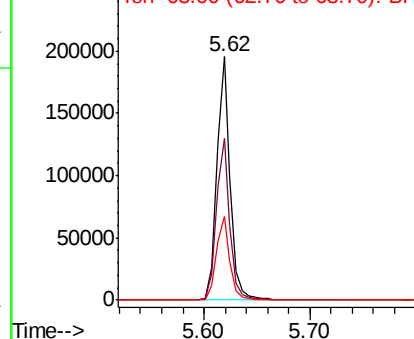
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.6  | 47.9  | 71.9  |
| 63      | 34.4  | 23.7  | 35.5  |

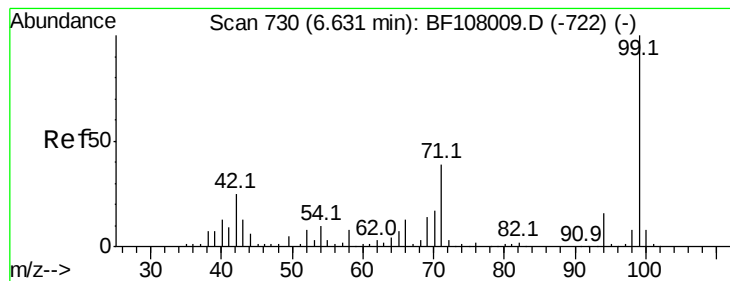
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 20.175 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

Instrument :

BNA\_F

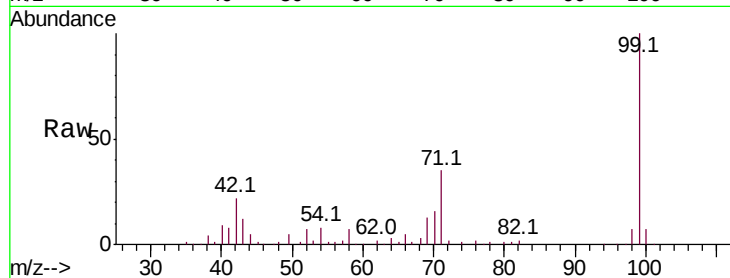
ClientSampleId :

T25-COMP

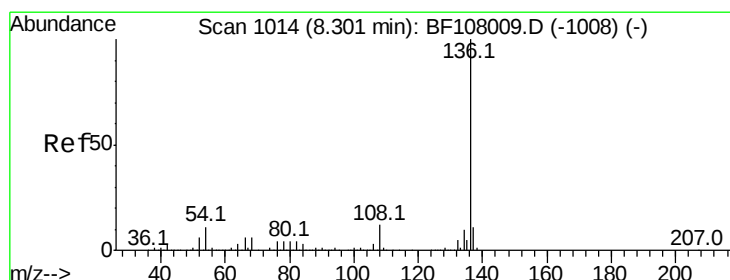
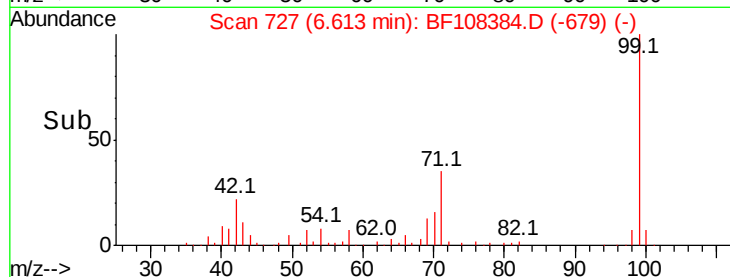
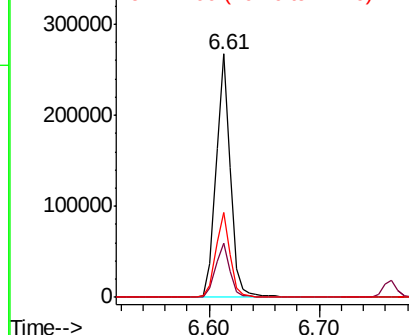
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 237001 |       |       |
| 42      | 22.0 | 14.5  | 21.7#  |       |       |
| 71      | 35.0 | 25.4  | 38.0   |       |       |

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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

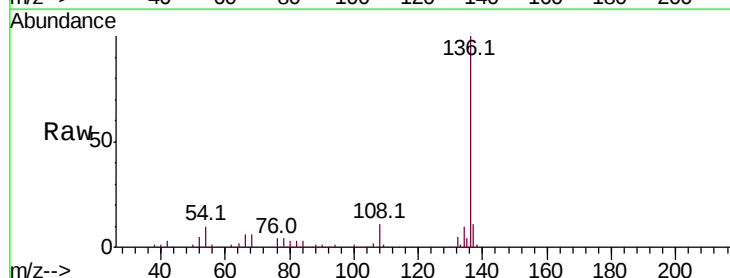
RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

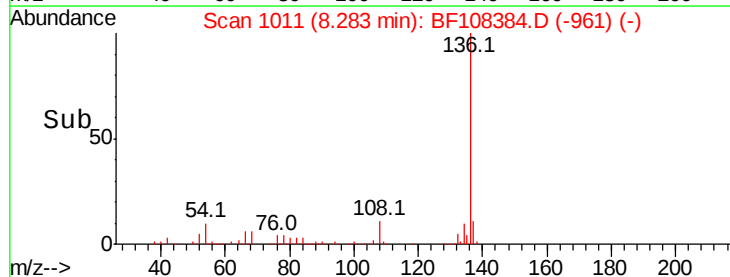
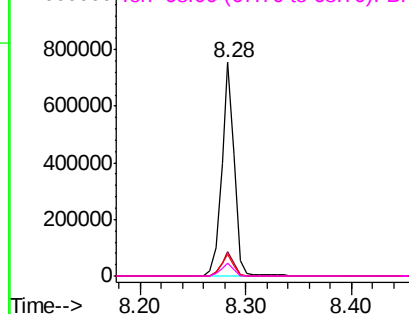
Lab File: BF108384.D

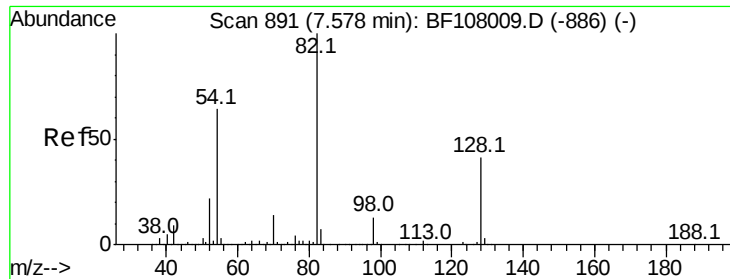
Acq: 22 Aug 2018 15:46

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 631073 |       |       |
| 137     | 11.4 | 8.9   | 13.3   |       |       |
| 54      | 10.0 | 6.6   | 9.8#   |       |       |
| 68      | 5.9  | 5.0   | 7.4    |       |       |



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





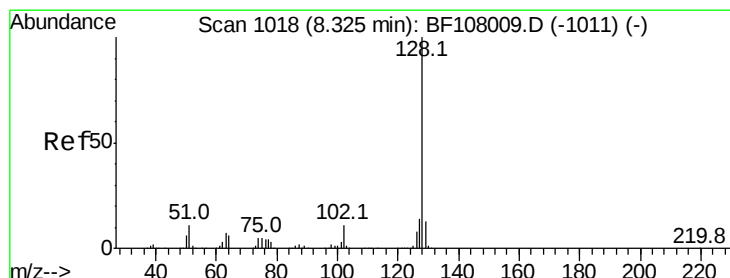
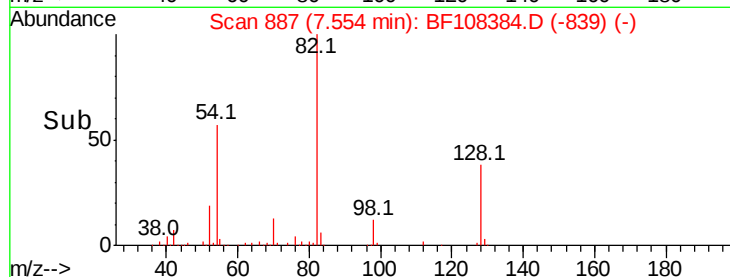
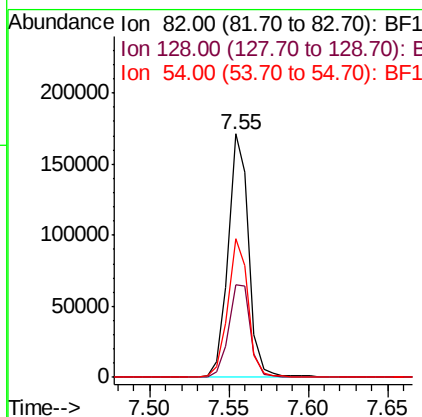
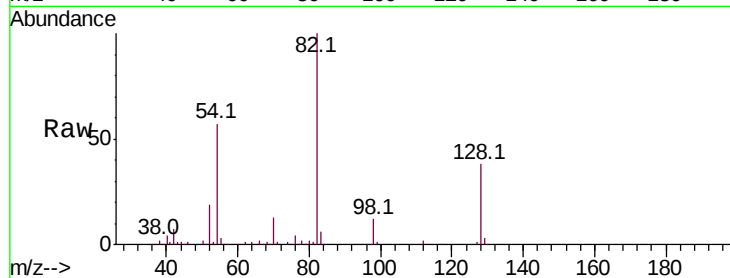
#23  
 Nitrobenzene-d5  
 Concen: 13.595 ng  
 RT: 7.55 min Scan# 887  
 Delta R.T. -0.02 min  
 Lab File: BF108384.D  
 Acq: 22 Aug 2018 15:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T25-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 153745 |       |       |
| 128     | 38.0  | 36.1   | 54.1  |       |
| 54      | 56.7  | 41.4   | 62.2  |       |

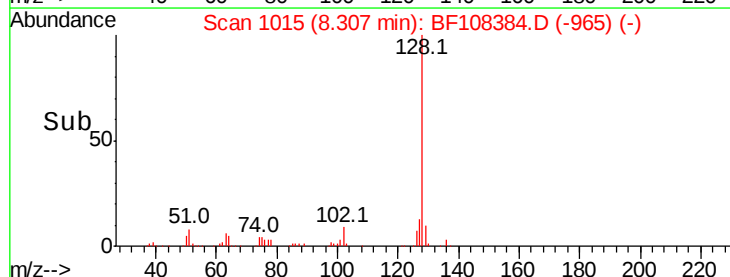
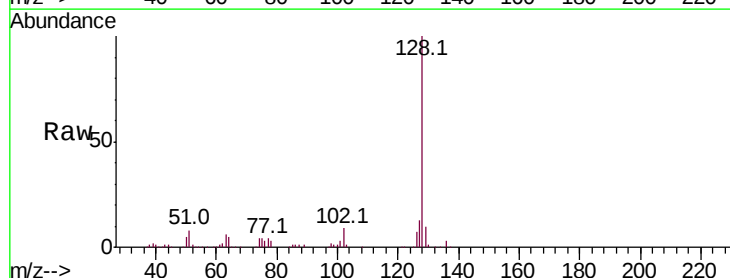
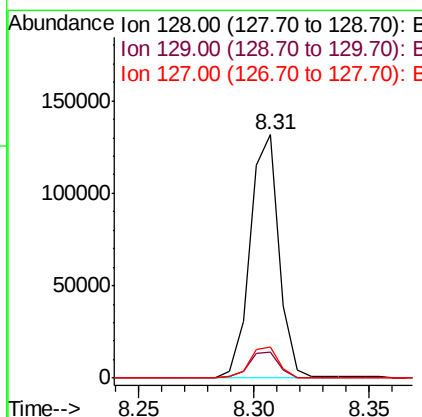
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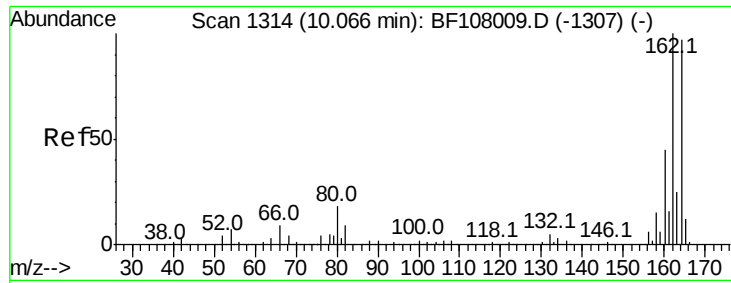
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#31  
 Naphthalene  
 Concen: 4.027 ng  
 RT: 8.31 min Scan# 1015  
 Delta R.T. -0.01 min  
 Lab File: BF108384.D  
 Acq: 22 Aug 2018 15:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 115564 |       |       |
| 129     | 10.5  | 8.8    | 13.2  |       |
| 127     | 12.9  | 10.9   | 16.3  |       |





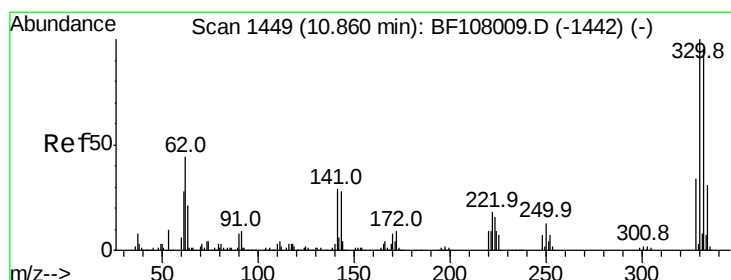
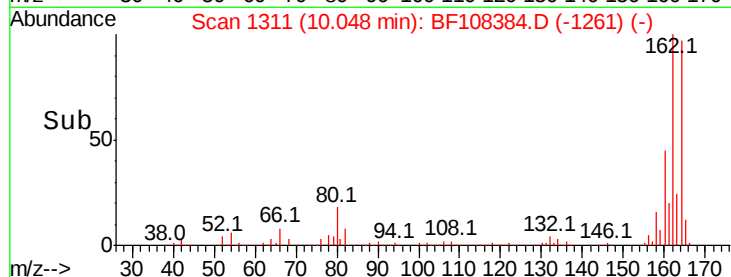
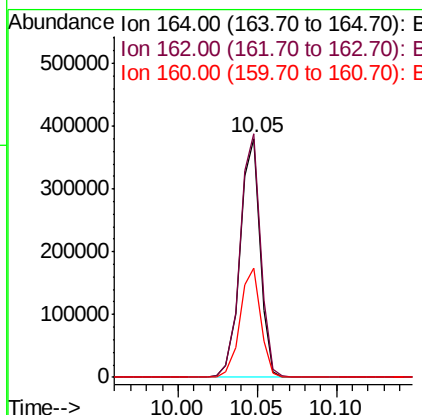
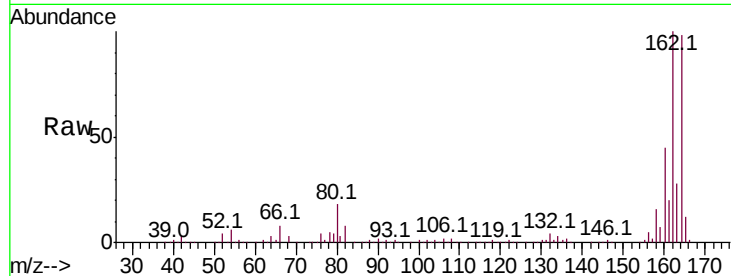
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.05 min Scan# 1311  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.1 | 86.1 | 129.1 |       |
| 160     | 45.9  | 38.3 | 57.5  |       |

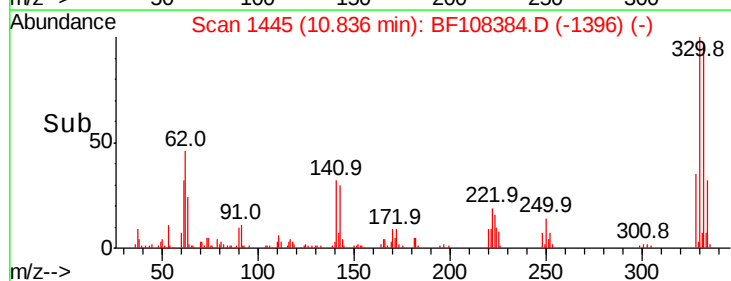
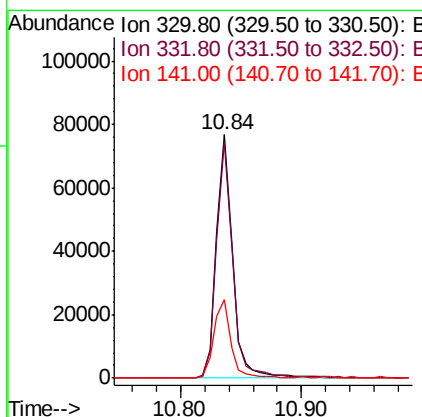
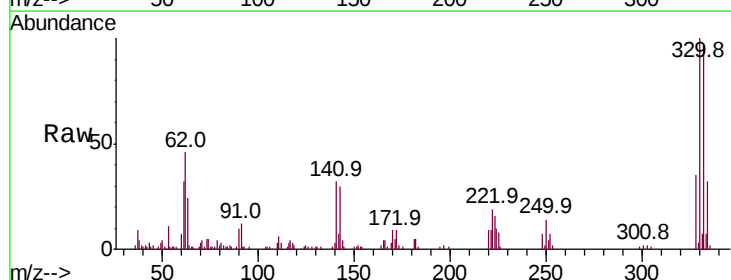
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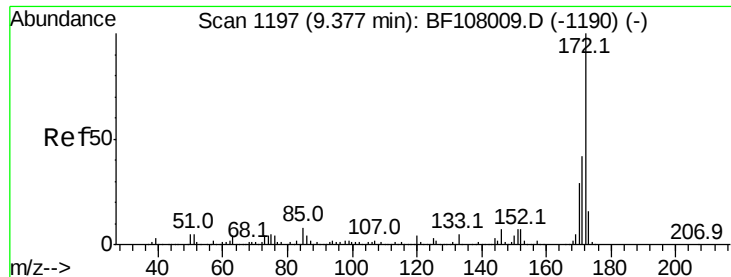
Sohil  
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#41  
2,4,6-Tribromophenol  
Concen: 21.458 ng  
RT: 10.84 min Scan# 1445  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.2  | 77.0 | 115.6 |       |
| 141     | 34.2  | 29.9 | 44.9  |       |





#44

2-Fluorobiphenyl

Concen: 12.282 ng

RT: 9.35 min Scan# 1193

Delta R.T. -0.01 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

Instrument :

BNA\_F

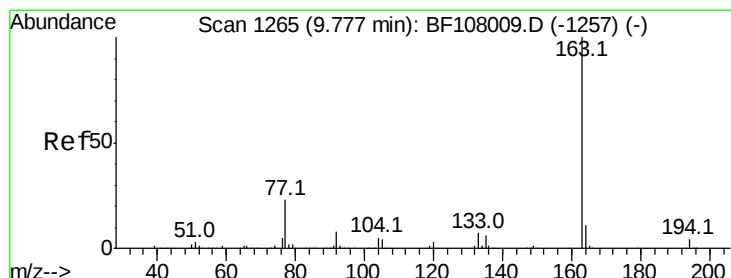
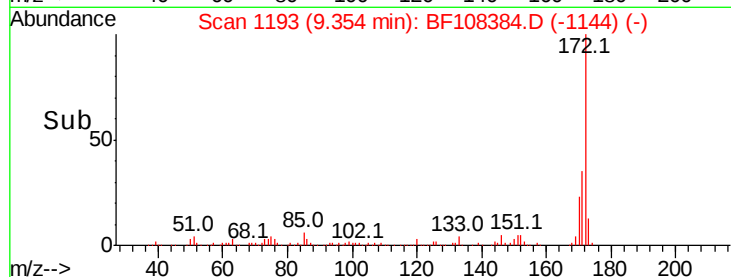
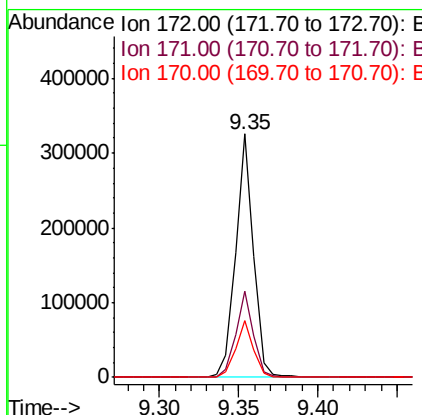
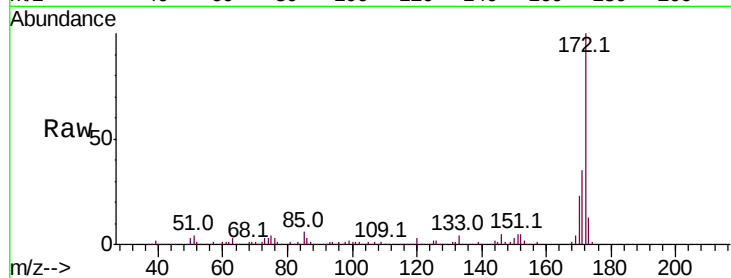
ClientSampleId :

T25-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 172   | Resp: | 254083 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.2  | 29.7  | 44.5   |
| 170       | 23.2  | 19.6  | 29.4   |

Manual Integrations  
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#49

Dimethylphthalate

Concen: 2.019 ng

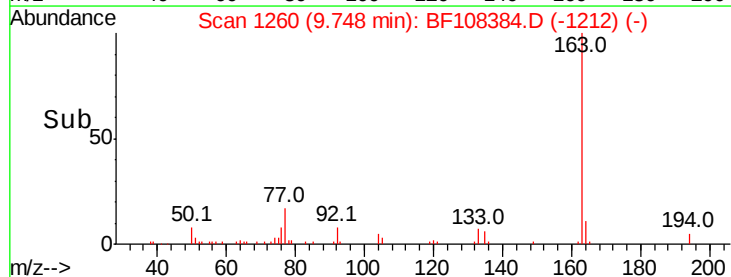
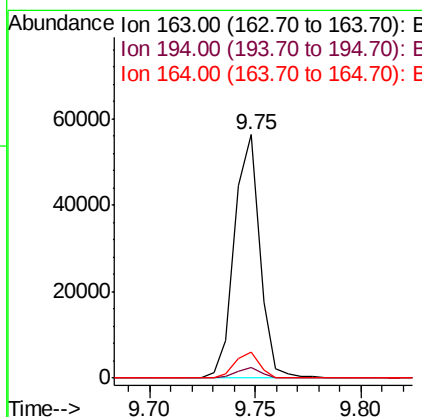
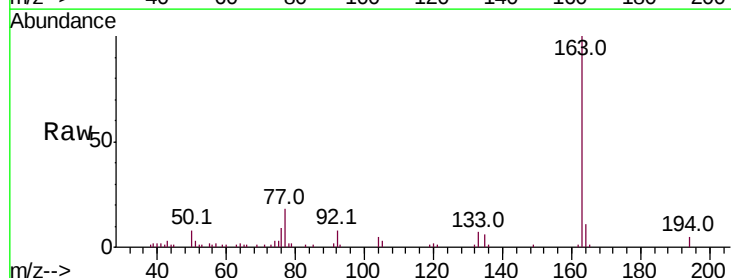
RT: 9.75 min Scan# 1260

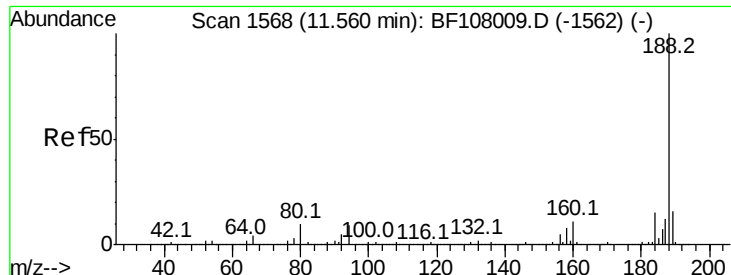
Delta R.T. -0.02 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 46712 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.5   | 2.7   | 4.1#  |
| 164       | 10.8  | 8.2   | 12.2  |





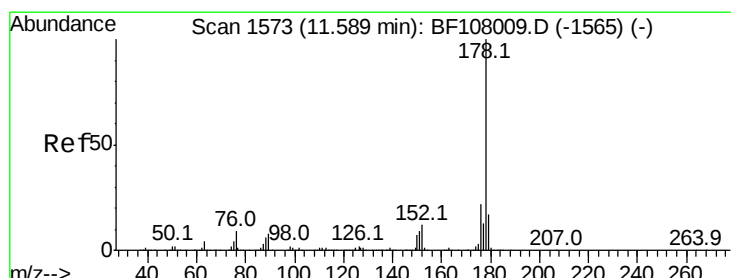
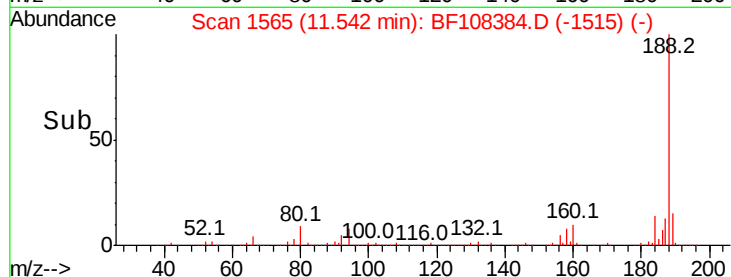
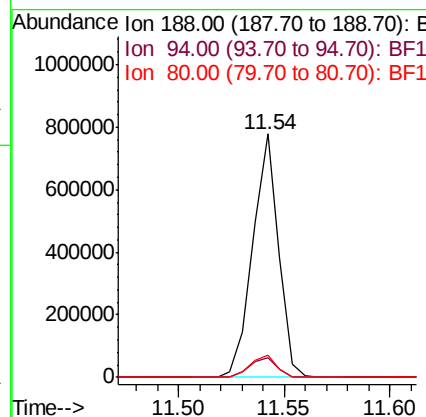
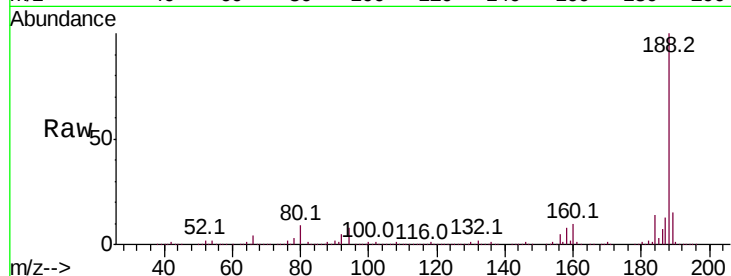
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.54 min Scan# 1565  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.3   | 8.5        | 12.7# |
| 80      | 9.2   | 9.2        | 13.8# |

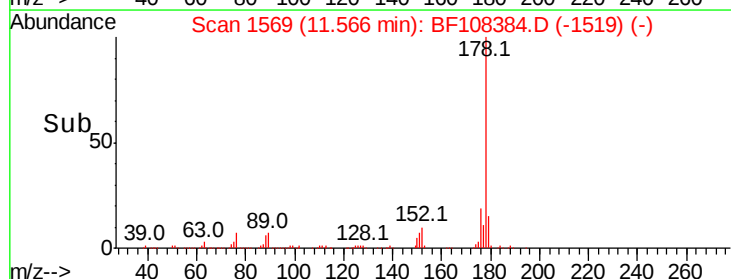
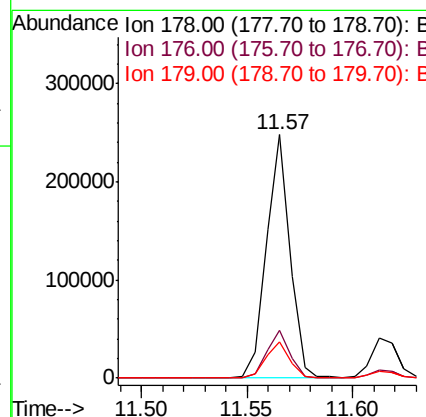
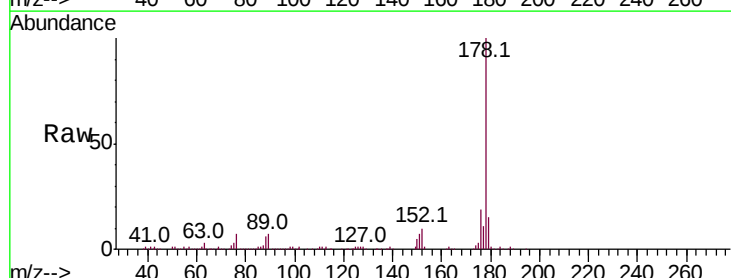
Manual Integrations  
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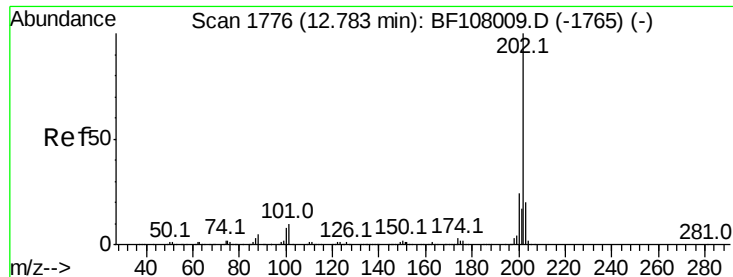
Sohil  
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#70  
Phenanthrene  
Concen: 6.201 ng  
RT: 11.57 min Scan# 1569  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.4  | 15.8       | 23.8  |
| 179     | 15.1  | 13.0       | 19.6  |





#74

Fluoranthene

Concen: 7.228 ng

RT: 12.76 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

Instrument :

BNA\_F

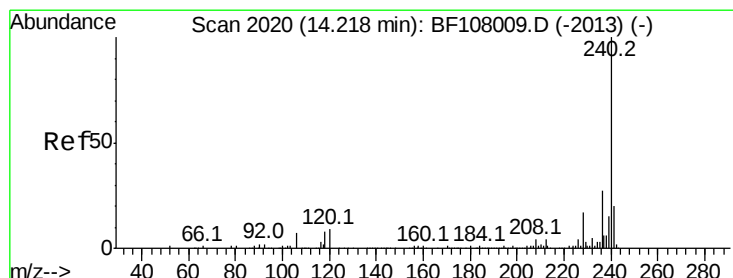
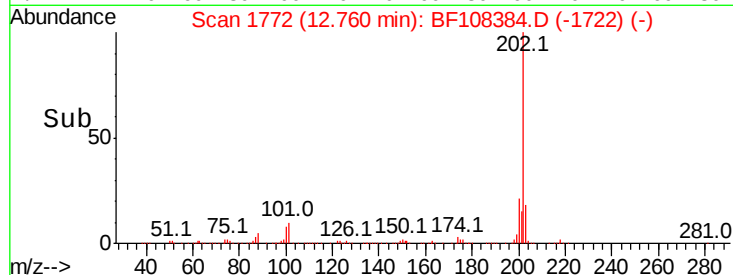
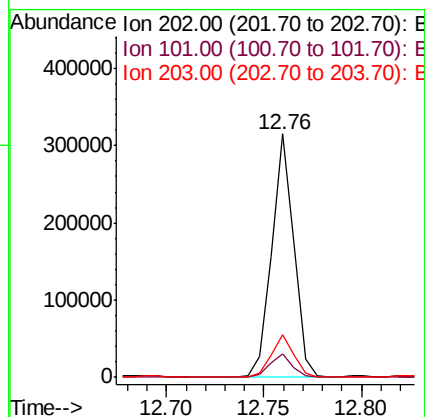
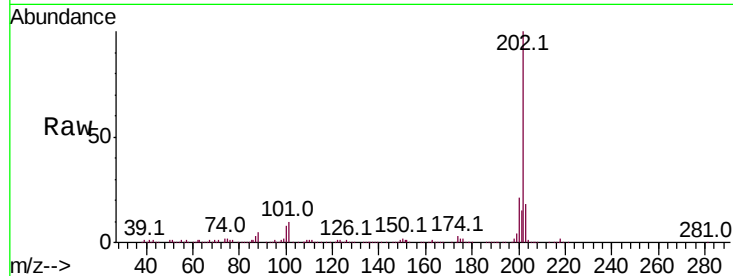
ClientSampleId :

T25-COMP

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 245941 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 9.7  | 0.0   | 34.1   |
| 203       | 17.7 | 0.0   | 38.1   |

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#75

Chrysene-d12

Concen: 20.000 ng

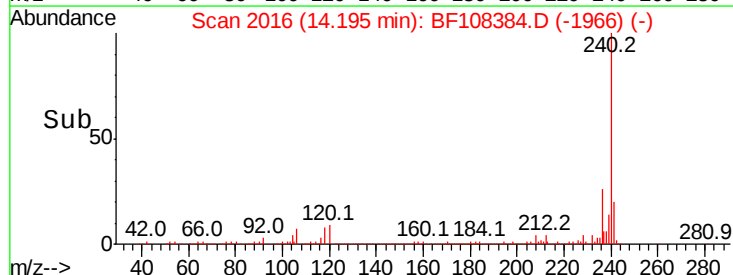
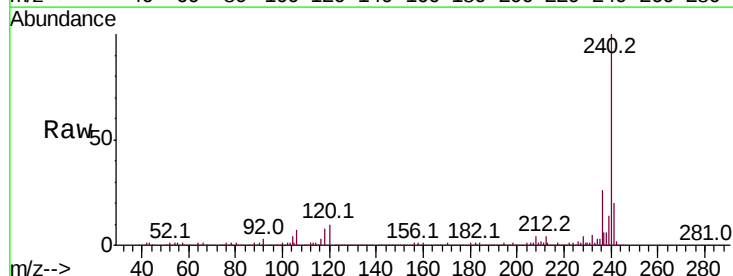
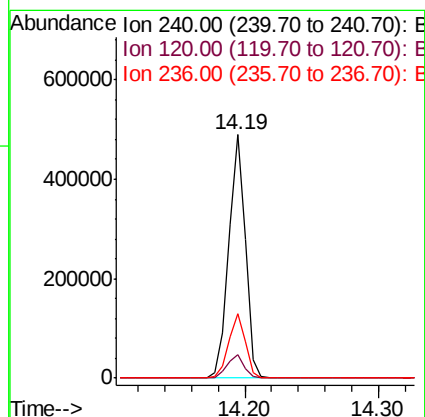
RT: 14.19 min Scan# 2016

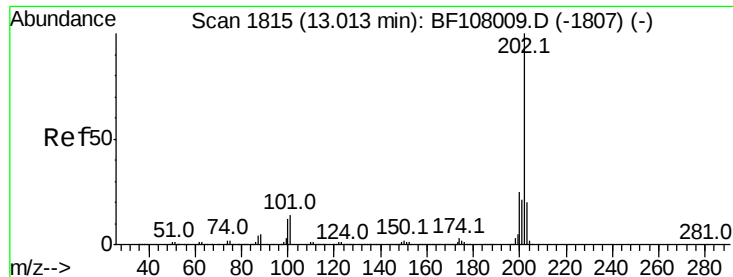
Delta R.T. -0.01 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 432289 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 9.5  | 9.5   | 14.3   |
| 236       | 26.4 | 20.7  | 31.1   |





#77

Pvrene

Concen: 9.442 ng

RT: 12.99 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

Instrument :

BNA\_F

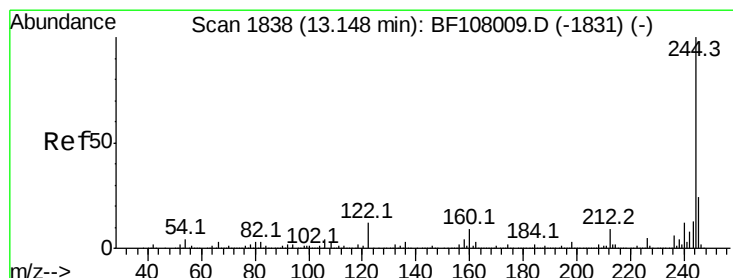
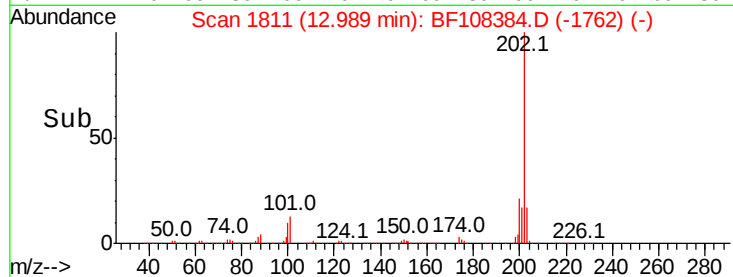
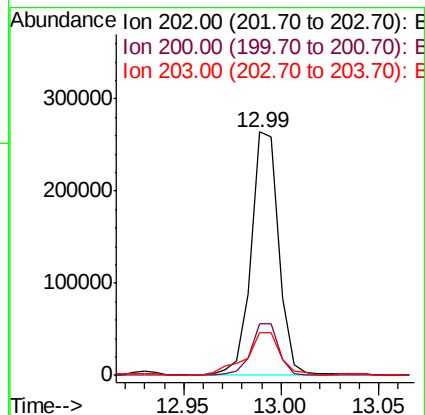
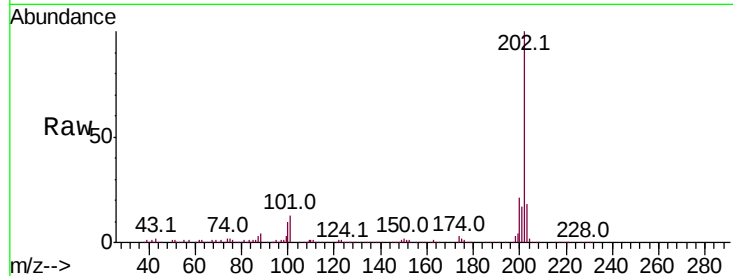
ClientSampleId :

T25-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 258418 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 17.4  | 26.2   |
| 203       | 17.6  | 14.3  | 21.5   |

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#78

Terphenyl-d14

Concen: 16.091 ng

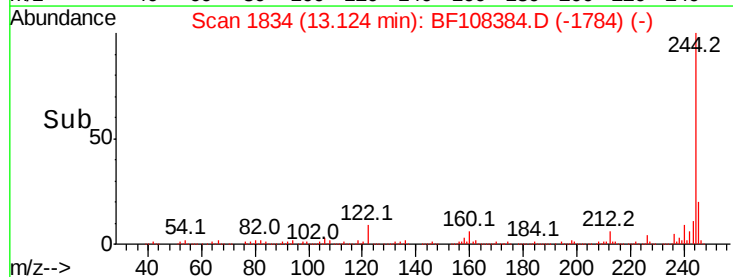
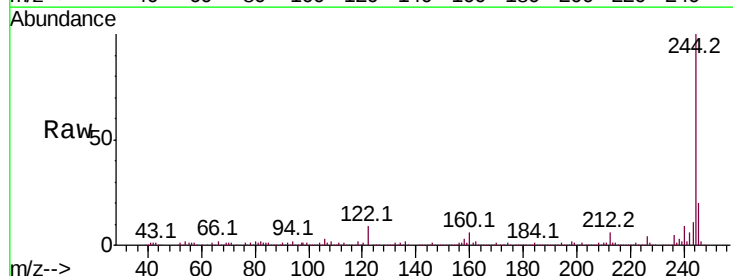
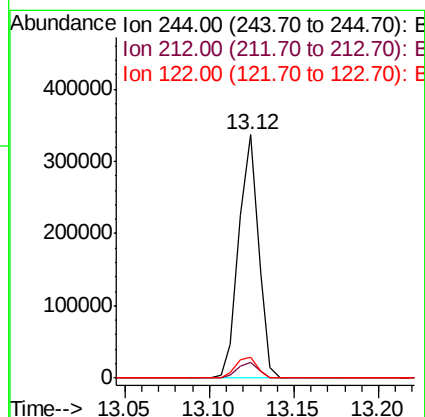
RT: 13.12 min Scan# 1834

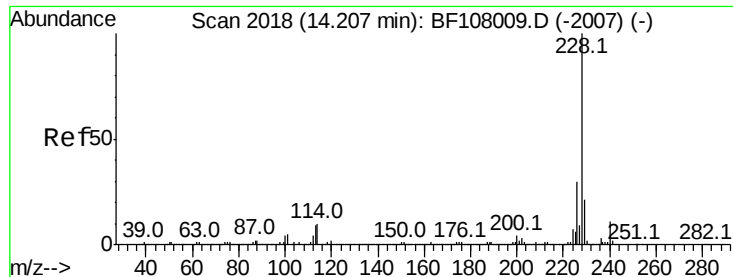
Delta R.T. -0.01 min

Lab File: BF108384.D

Acq: 22 Aug 2018 15:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 273581 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.4   | 5.4   | 8.0    |
| 122       | 8.8   | 11.0  | 16.4#  |





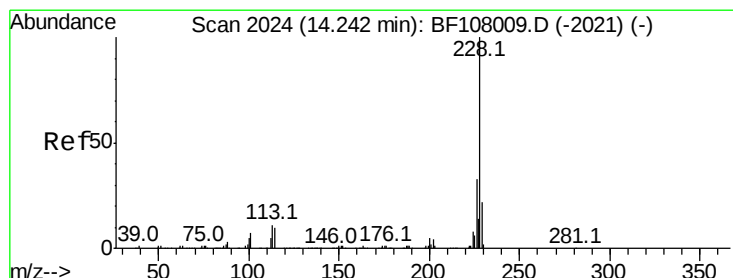
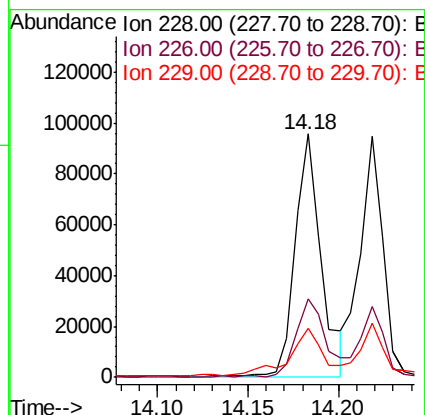
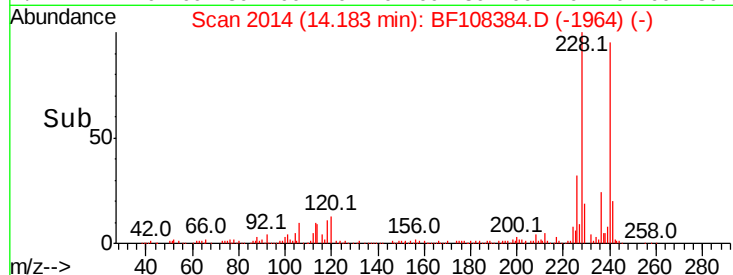
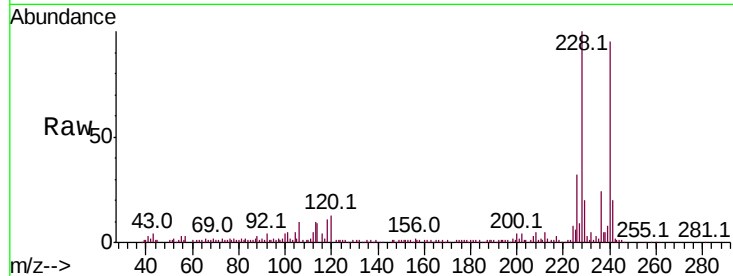
#80  
Benzo(a)anthracene  
Concen: 3.870 ng  
RT: 14.18 min Scan# 2014  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 96010 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 32.2    | 22.6  | 33.8  |
| 229 20.2    | 15.8  | 23.6  |

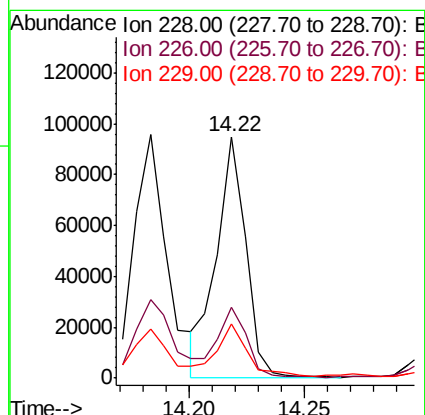
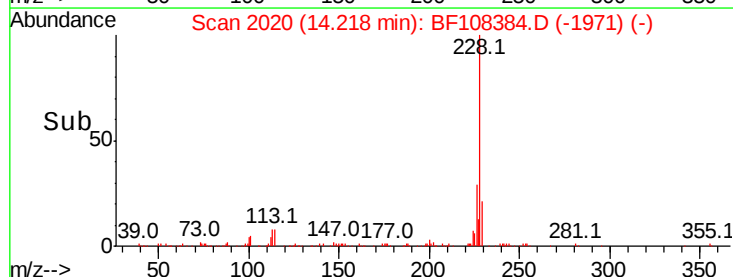
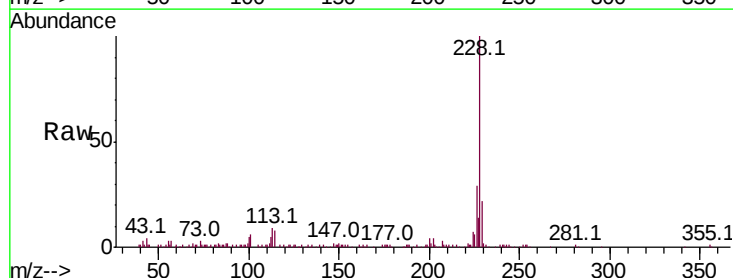
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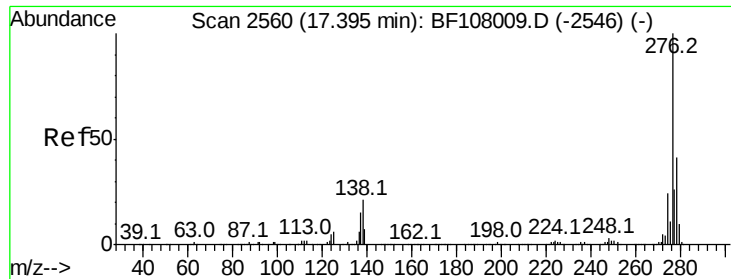
Sohil  
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#82  
Chrysene  
Concen: 3.672 ng  
RT: 14.22 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:228 | Resp: | 83508 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 29.3    | 25.0  | 37.6  |
| 229 22.3    | 16.2  | 24.4  |





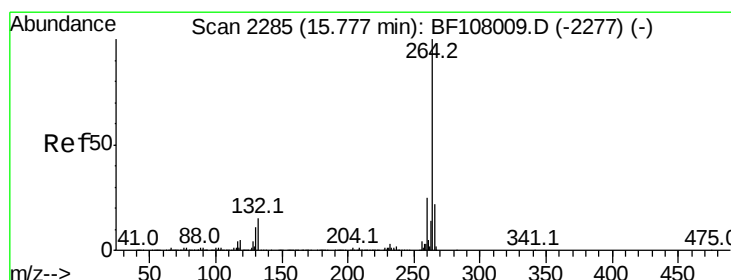
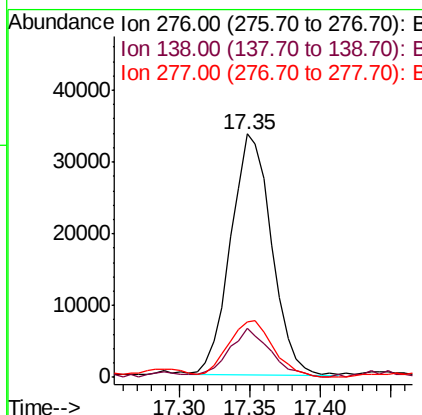
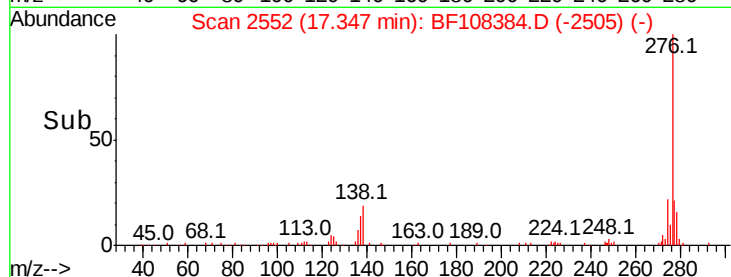
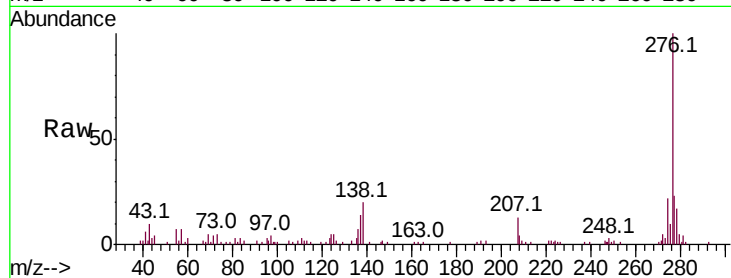
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.446 ng  
RT: 17.35 min Scan# 2552  
Delta R.T. -0.02 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 25.0  | 37.6# |
| 277     | 25.9  | 20.1  | 30.1  |

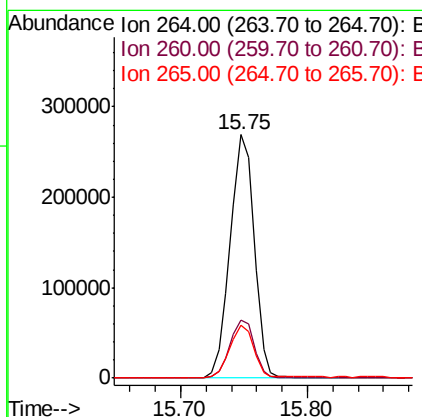
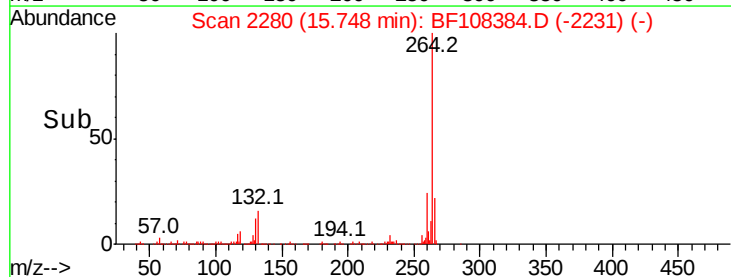
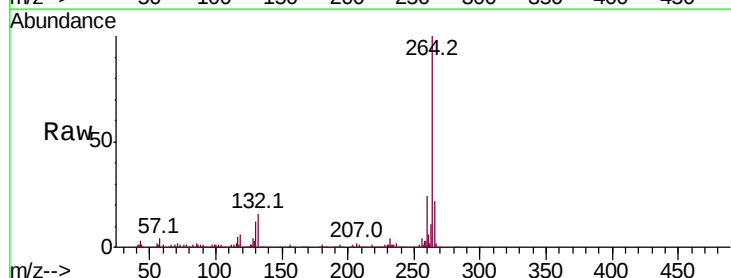
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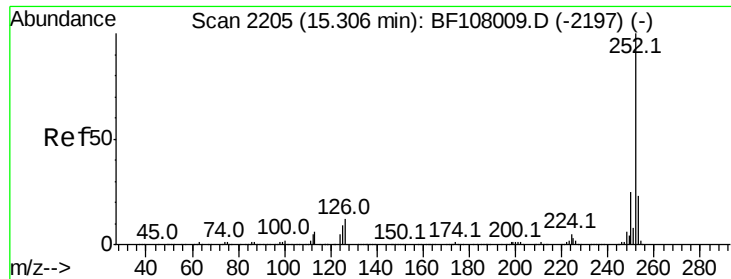
Sohil  
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.75 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |





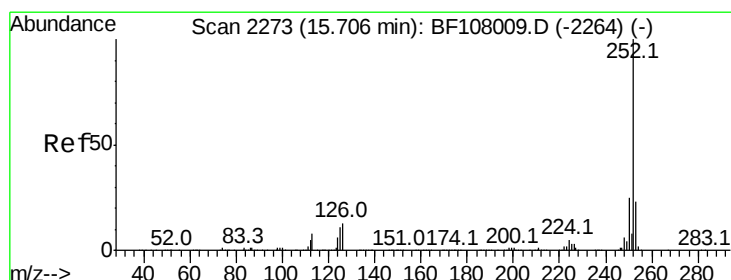
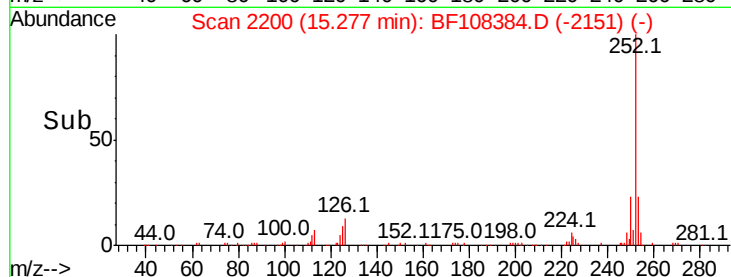
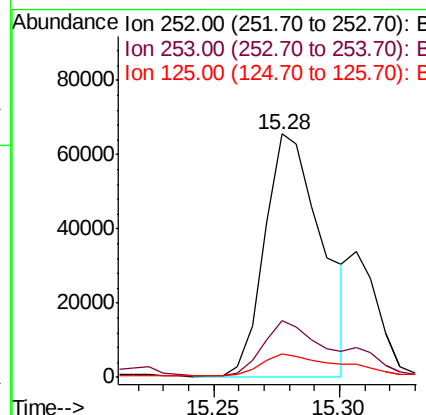
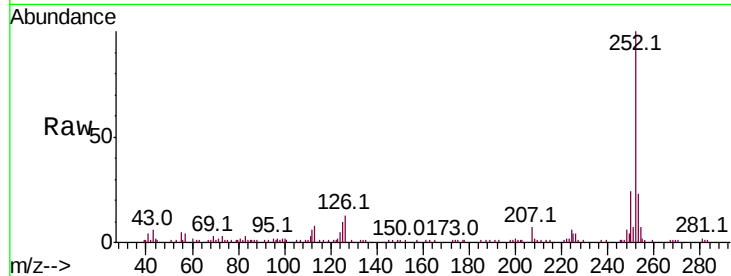
#87  
Benzo(b)fluoranthene  
Concen: 4.940 ng m  
RT: 15.28 min Scan# 2200  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

Instrument :  
BNA\_F  
ClientSampleId :  
T25-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.0  | 25.6  |
| 125     | 9.8   | 9.0   | 13.6  |

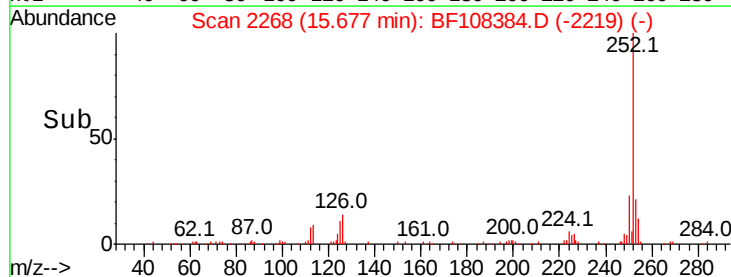
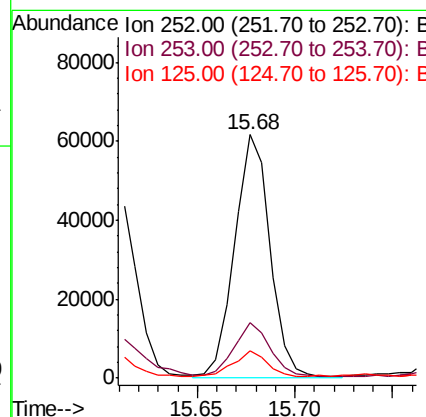
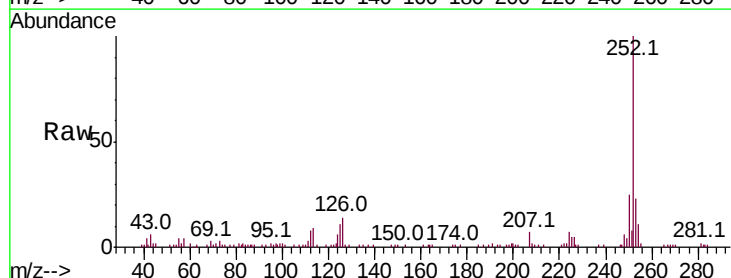
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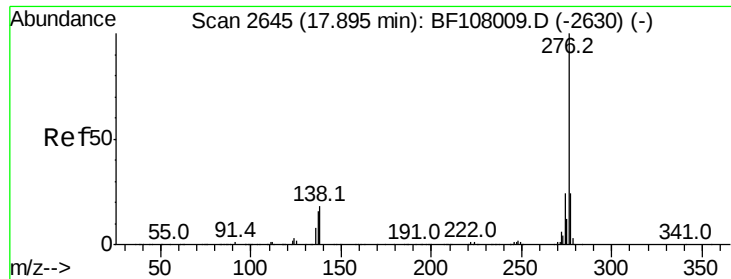
Sohil  
8/23/2018 3:43:08 PM



#89  
Benzo(a)pyrene  
Concen: 4.118 ng  
RT: 15.68 min Scan# 2268  
Delta R.T. -0.01 min  
Lab File: BF108384.D  
Acq: 22 Aug 2018 15:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.1  | 25.7  |
| 125     | 11.3  | 9.8   | 14.6  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 7.065 ng  
 RT: 17.85 min Scan# 2637  
 Delta R.T. -0.02 min  
 Lab File: BF108384.D  
 Acq: 22 Aug 2018 15:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T25-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 22.1  | 17.9       | 26.9  |
| 138     | 18.0  | 21.8       | 32.8  |

Manual Integrations  
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