

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\  
 Data File : BF107091.D  
 Acq On : 3 Jul 2018 19:24  
 Operator : JU/SJ  
 Sample : J3243-05 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-062918

Manual Integrations  
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Quant Time: Jul 03 23:24:28 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 29 14:38:29 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 51659    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.24  | 136  | 180508   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 10.00 | 164  | 78343    | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 11.50 | 188  | 164524   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 14.15 | 240  | 148316   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12            | 15.69 | 264  | 111520   | 20.00  | ng    | -0.03       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.60  | 112  | 169089   | 55.43  | ng    | 0.00        |
| 7) Phenol-d6                | 6.60  | 99   | 201541   | 52.90  | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 105885   | 32.60  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 50844    | 55.99  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 208720   | 36.72  | ng    | -0.02       |
| 78) Terphenyl-d14           | 13.08 | 244  | 284978   | 46.54  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 49) Dimethylphthalate       | 9.70  | 163  | 21248    | 3.616  | ng    | Qvalue # 95 |
| 70) Phenanthrene            | 11.52 | 178  | 70845    | 8.928  | ng    | 98          |
| 71) Anthracene              | 11.57 | 178  | 22890    | 2.826  | ng    | 97          |
| 74) Fluoranthene            | 12.72 | 202  | 201884   | 23.082 | ng    | 93          |
| 77) Pyrene                  | 12.95 | 202  | 210147   | 21.487 | ng    | 99          |
| 79) Butylbenzylphthalate    | 13.54 | 149  | 26897    | 6.689  | ng    | # 95        |
| 80) Benzo(a)anthracene      | 14.14 | 228  | 80094    | 8.860  | ng    | 97          |
| 82) Chrysene                | 14.17 | 228  | 66837    | 8.037  | ng    | 96          |
| 85) Indeno(1,2,3-cd)pyrene  | 17.28 | 276  | 16217    | 2.298  | ng    | # 92        |
| 87) Benzo(b)fluoranthene    | 15.23 | 252  | 49933m   | 7.208  | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.25 | 252  | 15519m   | 2.352  | ng    |             |
| 89) Benzo(a)pyrene          | 15.62 | 252  | 33922    | 5.508  | ng    | 96          |
| 91) Benzo(a,h,i)perylene    | 17.76 | 276  | 19794    | 3.880  | ng    | # 87        |

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

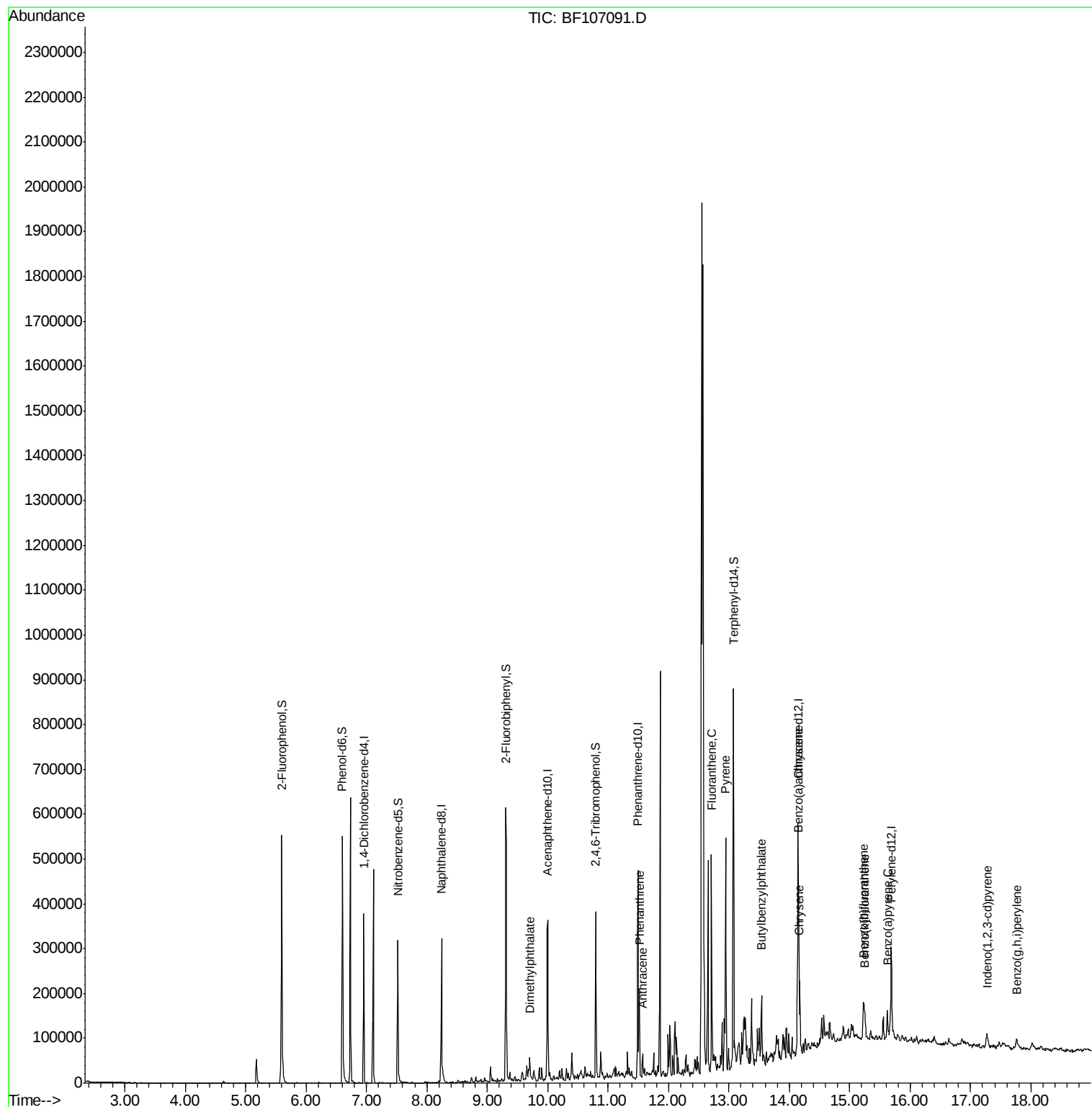
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\  
Data File : BF107091.D  
Acq On : 3 Jul 2018 19:24  
Operator : JU/SJ  
Sample : J3243-05 2X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

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Quant Time: Jul 03 23:24:28 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 29 14:38:29 2018  
Response via : Initial Calibration





#1

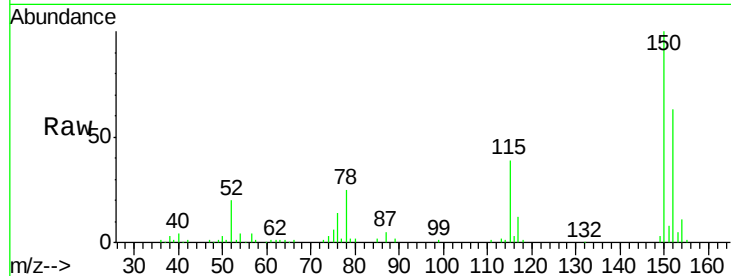
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

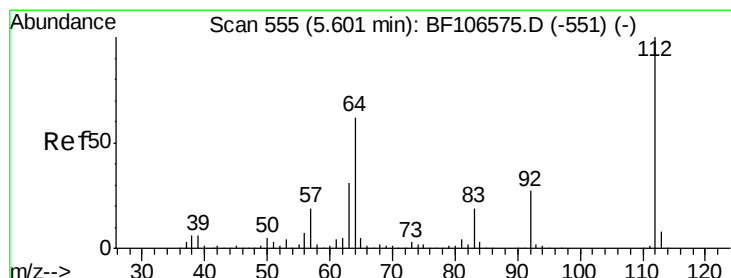
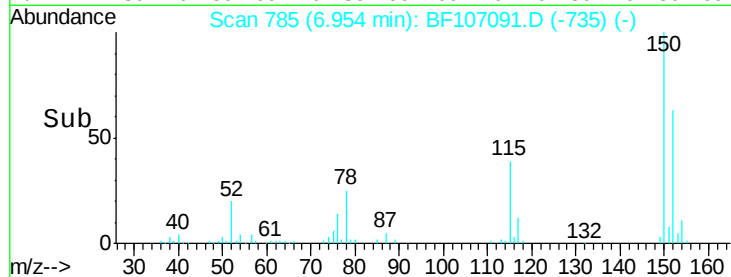
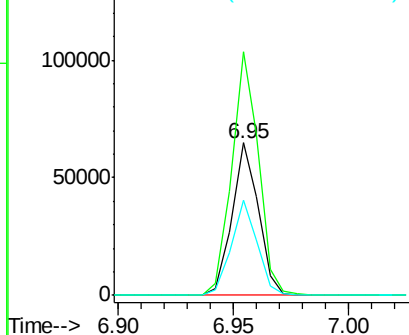
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.8 | 124.6 | 186.8 |
| 115     | 62.3  | 50.1  | 75.1  |

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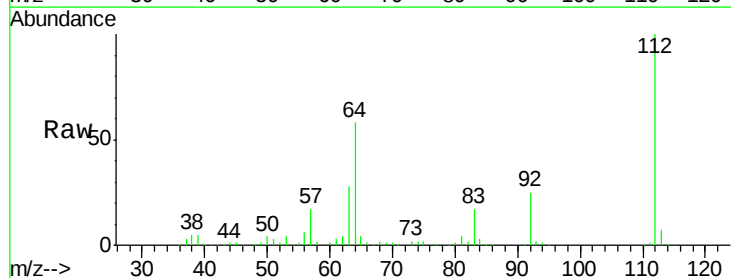
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



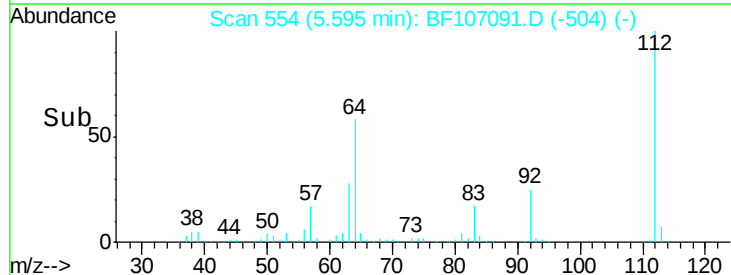
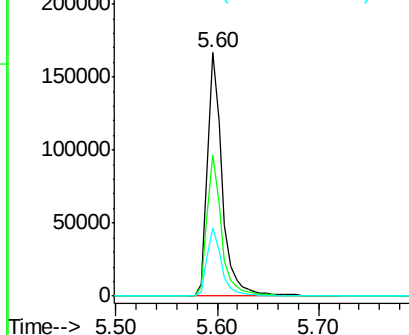
#5

2-Fluorophenol  
Concen: 55.425 ng  
RT: 5.60 min Scan# 554  
Delta R.T. -0.01 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.2  | 47.9  | 71.9  |
| 63      | 28.3  | 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: 52.901 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107091.D

Acq: 3 Jul 2018 19:24

Instrument :

BNA\_F

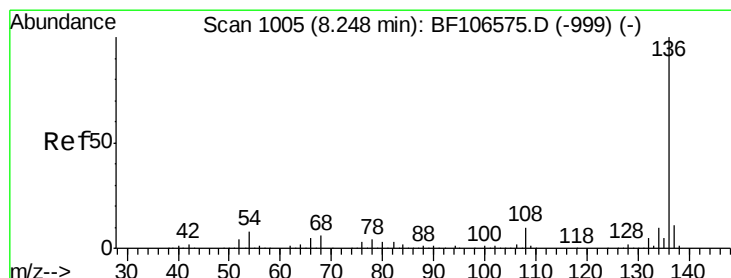
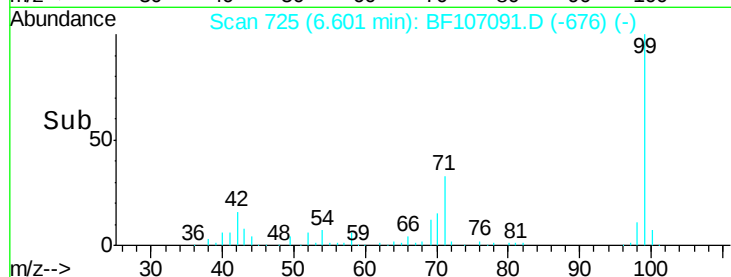
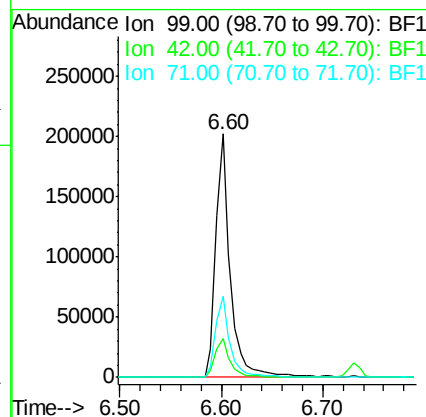
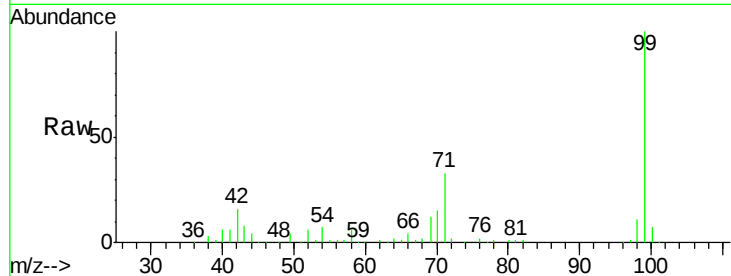
ClientSampled :

NB-08-062918

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 201541 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.0  | 14.5  | 21.7   |
| 71        | 33.2  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

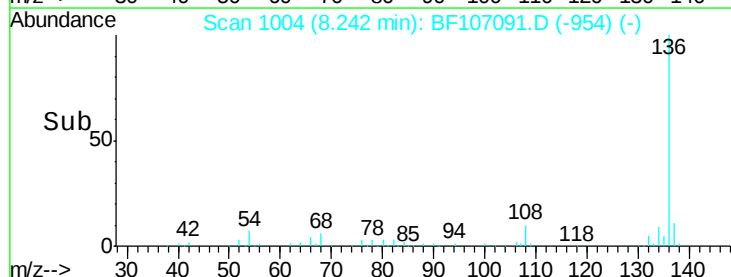
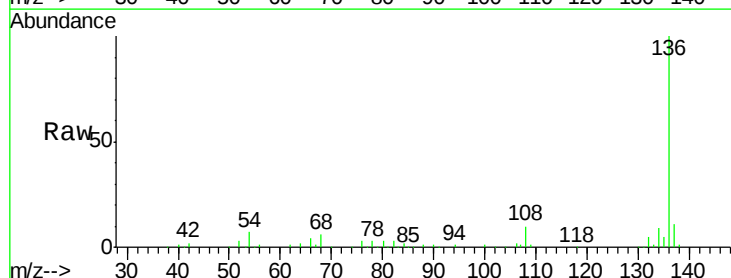
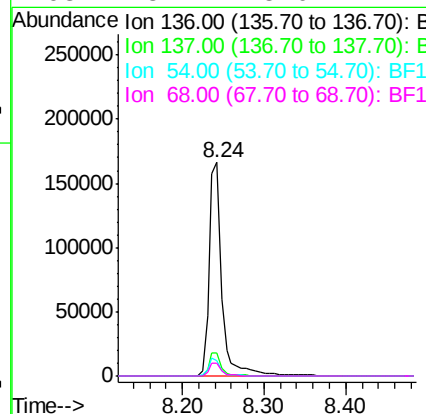
RT: 8.24 min Scan# 1004

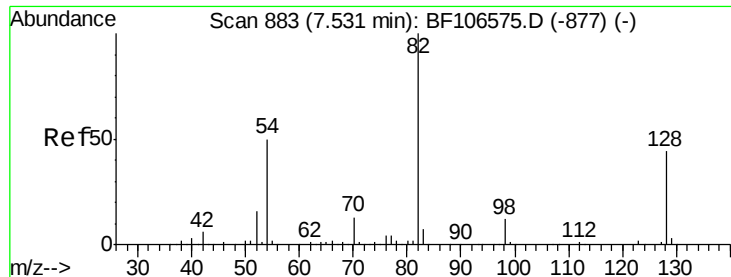
Delta R.T. -0.01 min

Lab File: BF107091.D

Acq: 3 Jul 2018 19:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 180508 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.6  | 8.9   | 13.3   |
| 54        | 7.1   | 6.6   | 9.8    |
| 68        | 5.7   | 5.0   | 7.4    |





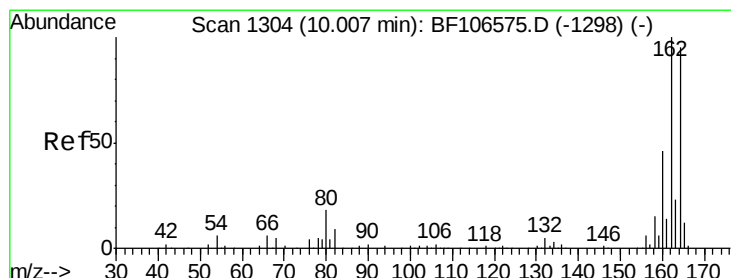
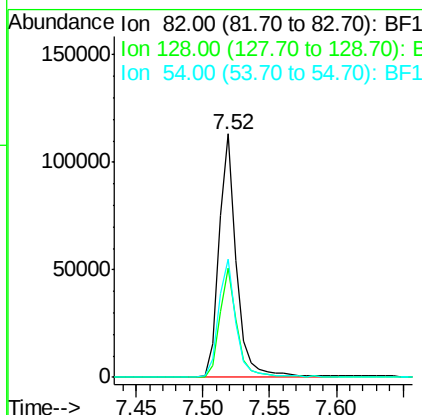
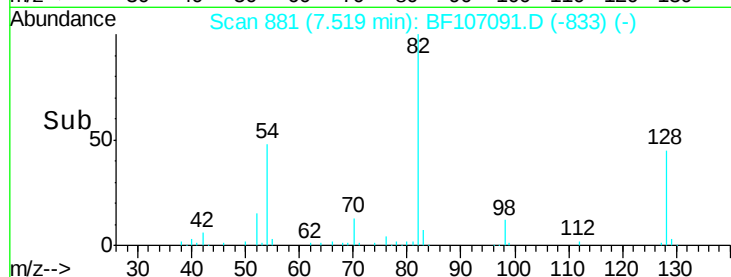
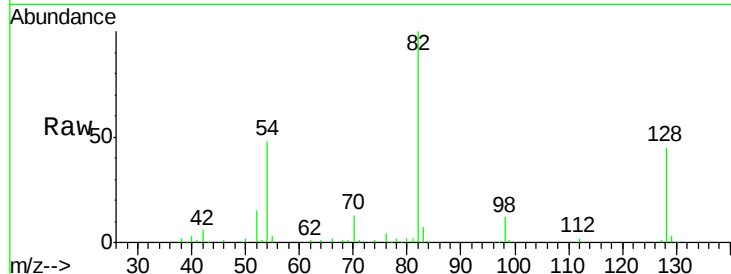
#23  
Nitrobenzene-d5  
Concen: 32.599 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.02 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.7  | 36.1  | 54.1  |
| 54      | 48.3  | 41.4  | 62.2  |

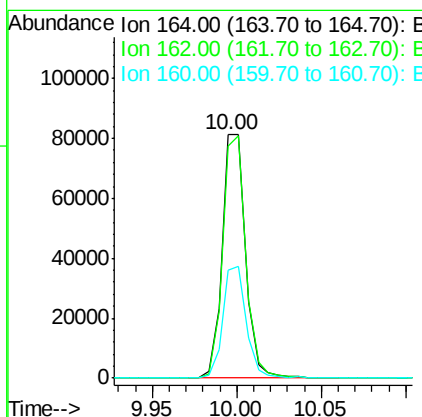
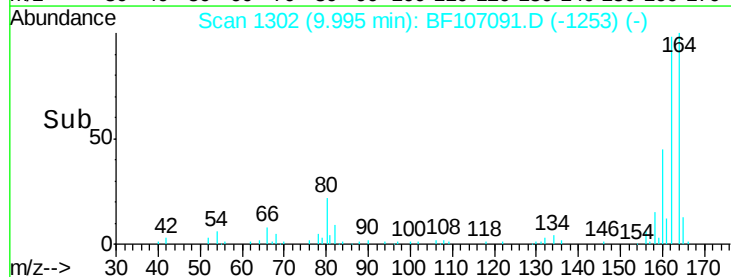
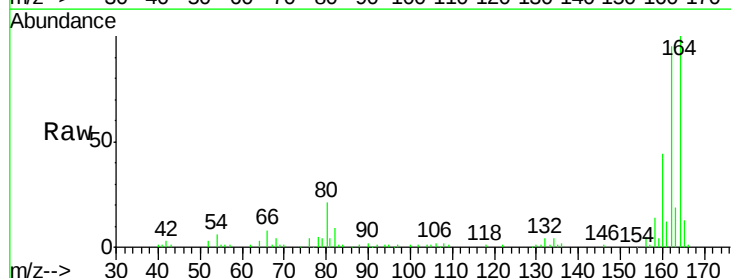
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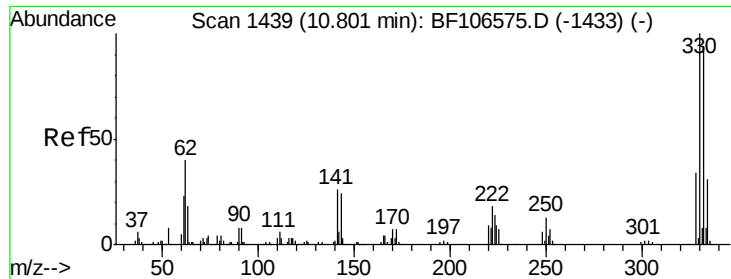
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1302  
Delta R.T. -0.01 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.1  | 86.1  | 129.1 |
| 160     | 44.1  | 38.3  | 57.5  |





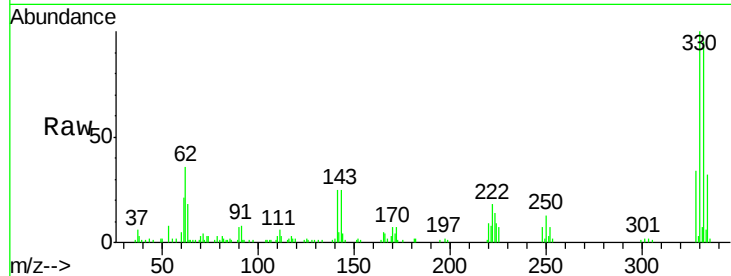
#41  
 2,4,6-Tribromophenol  
 Concen: 55.995 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF107091.D  
 Acq: 3 Jul 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 77.0  | 115.6 |
| 141     | 25.4  | 29.9  | 44.9  |

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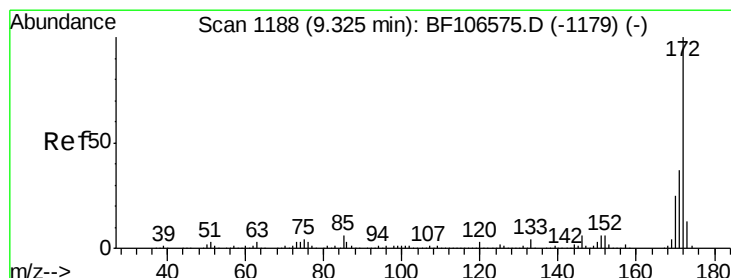
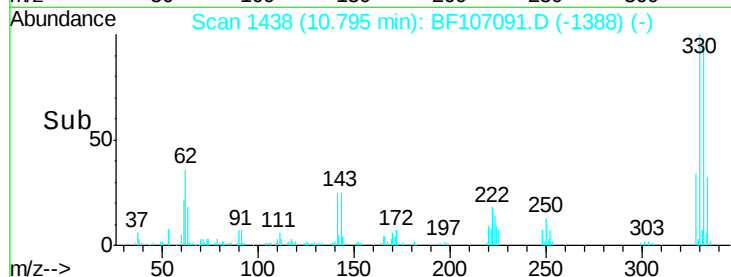
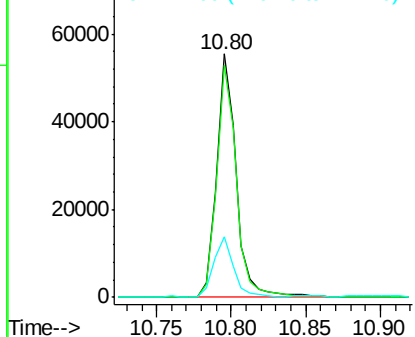


Abundance

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



#44  
 2-Fluorobiphenyl  
 Concen: 36.715 ng  
 RT: 9.31 min Scan# 1185  
 Delta R.T. -0.02 min  
 Lab File: BF107091.D  
 Acq: 3 Jul 2018 19:24

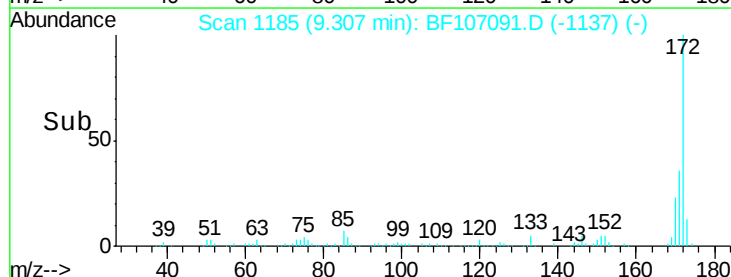
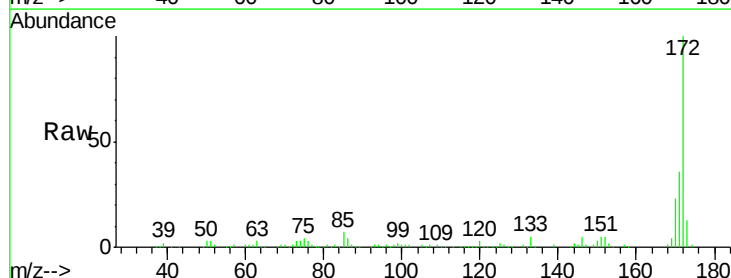
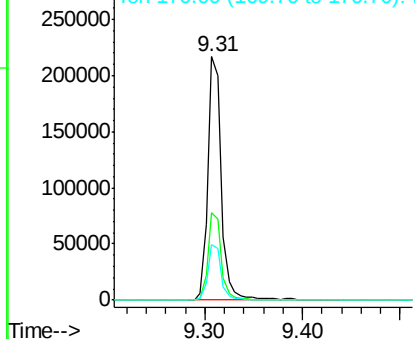
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 22.9  | 19.6  | 29.4  |

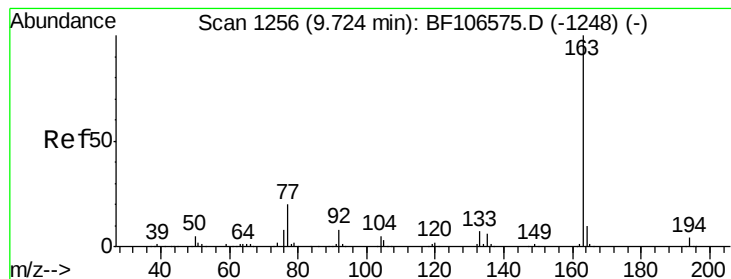
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 3.616 ng

RT: 9.70 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF107091.D

Acq: 3 Jul 2018 19:24

Instrument :

BNA\_F

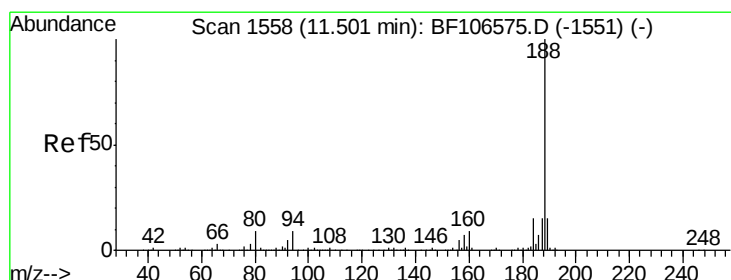
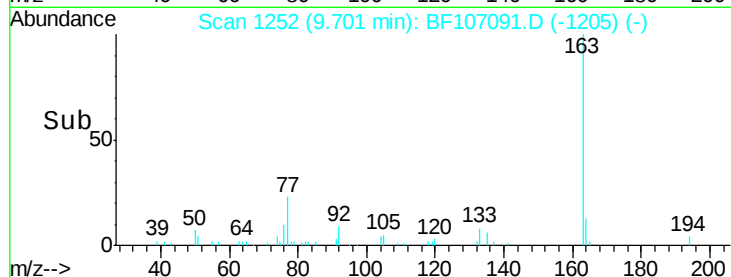
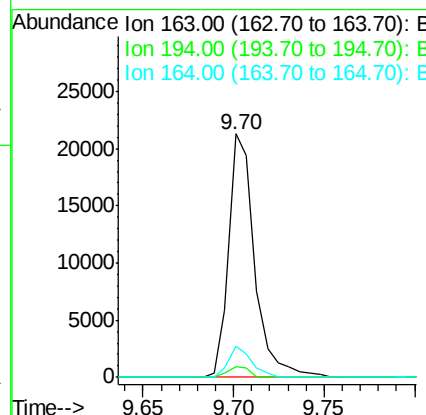
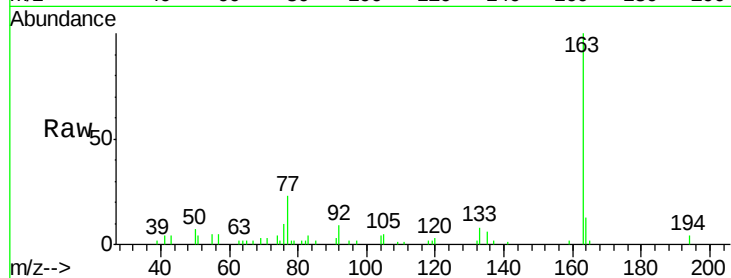
ClientSampleId :

NB-08-062918

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 21248 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.2   | 2.7   | 4.1#  |
| 164       | 12.6  | 8.2   | 12.2# |

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#63

Phenanthrene-d10

Concen: 20.000 ng

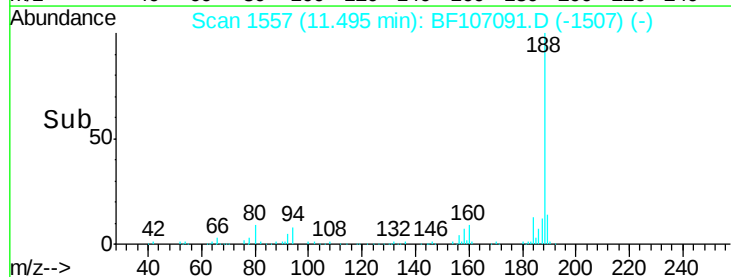
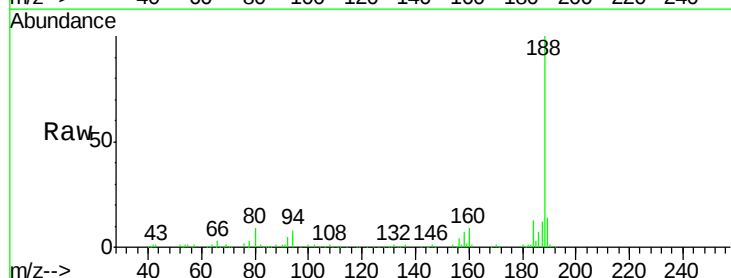
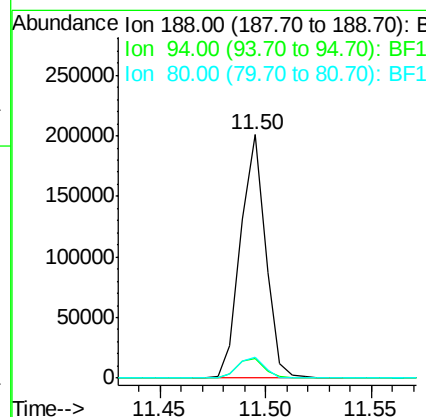
RT: 11.50 min Scan# 1557

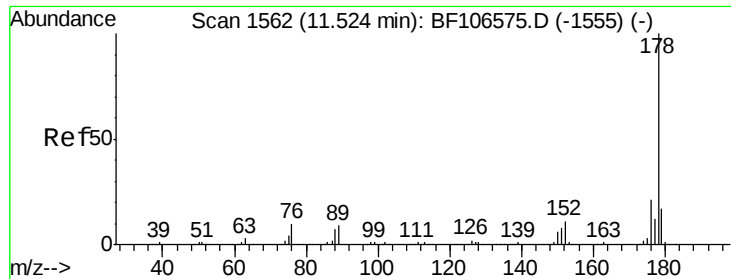
Delta R.T. -0.01 min

Lab File: BF107091.D

Acq: 3 Jul 2018 19:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 164524 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.2   | 8.5   | 12.7#  |
| 80        | 8.8   | 9.2   | 13.8#  |





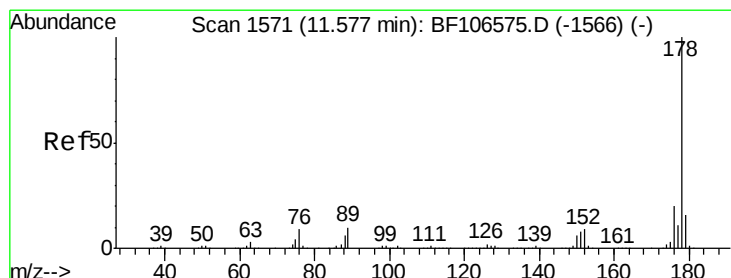
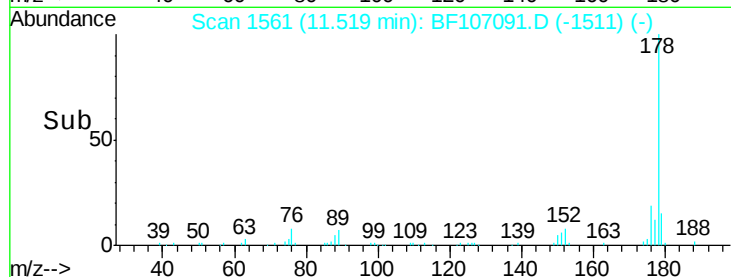
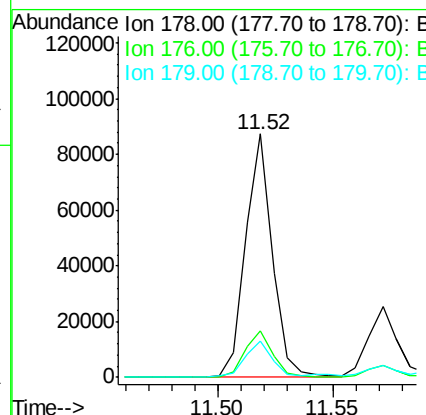
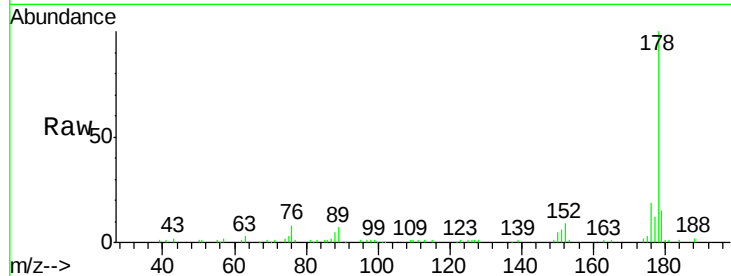
#70  
Phenanthrene  
Concen: 8.928 ng  
RT: 11.52 min Scan# 1561  
Delta R.T. -0.01 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.8  | 23.8  |
| 179     | 14.9  | 13.0  | 19.6  |

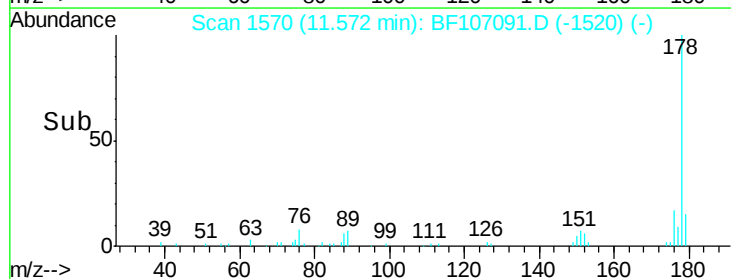
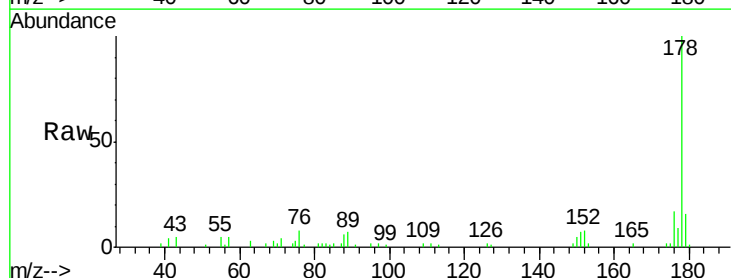
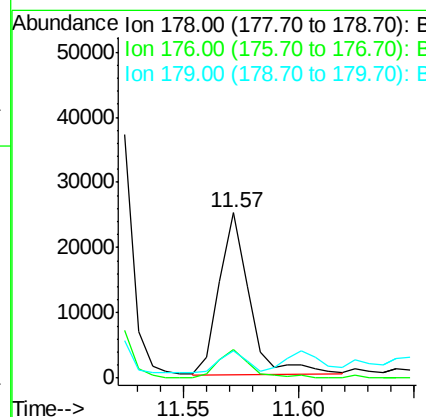
Manual Integrations  
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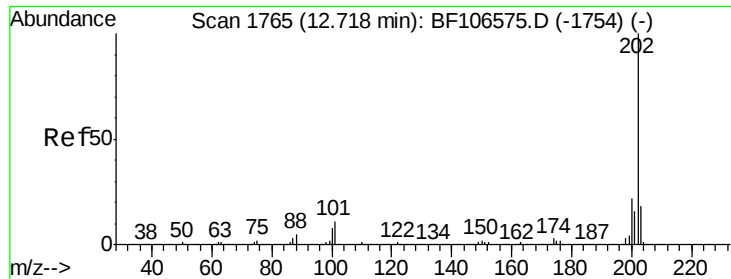
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#71  
Anthracene  
Concen: 2.826 ng  
RT: 11.57 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.2  | 15.4  | 23.2  |
| 179     | 16.2  | 12.6  | 19.0  |





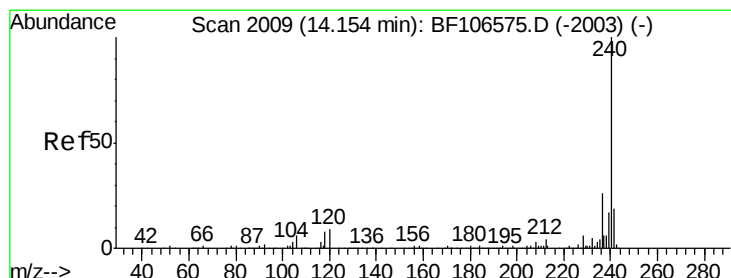
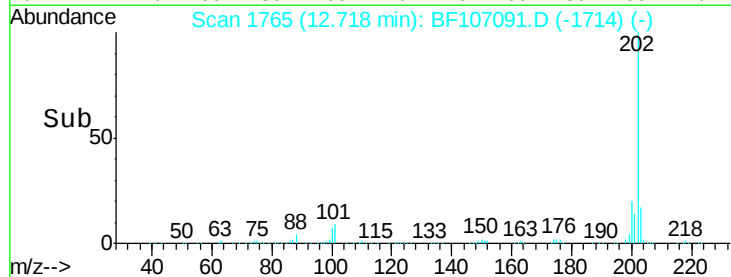
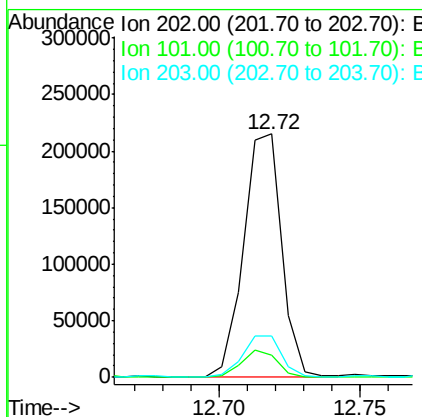
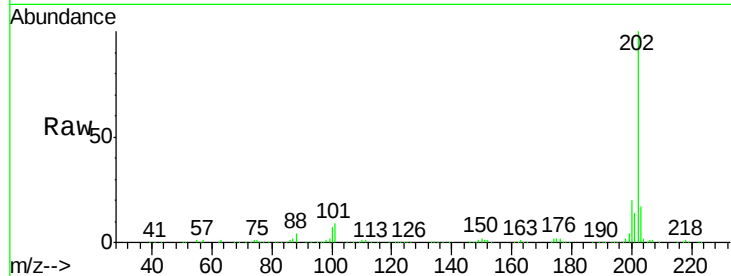
#74  
 Fluoranthene  
 Concen: 23.082 ng  
 RT: 12.72 min Scan# 1765  
 Delta R.T. -0.00 min  
 Lab File: BF107091.D  
 Acq: 3 Jul 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-062918

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 201884 |       |       |
| 101     | 8.9  | 0.0   | 34.1   |       |       |
| 203     | 16.9 | 0.0   | 38.1   |       |       |

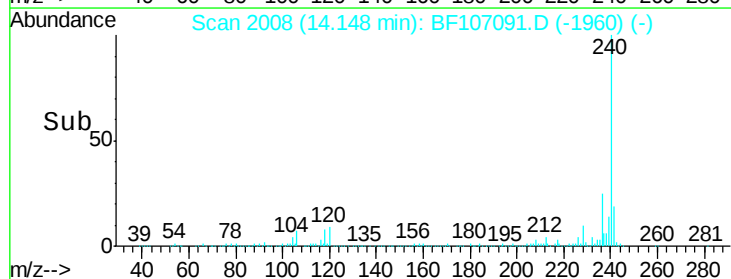
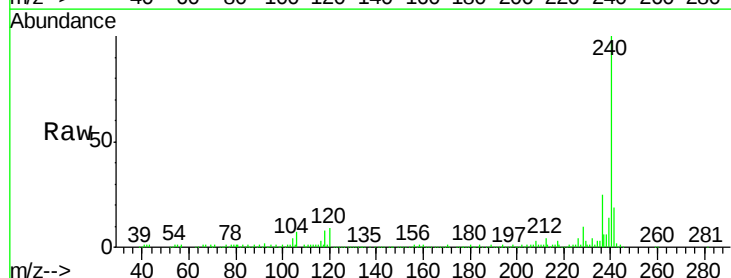
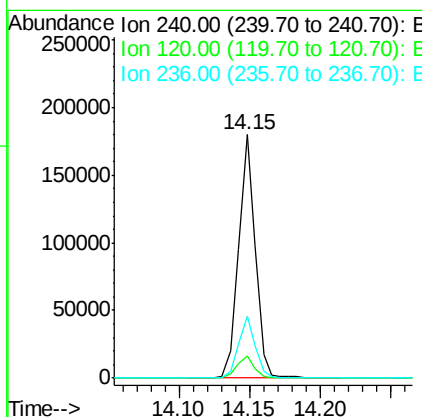
Manual Integrations  
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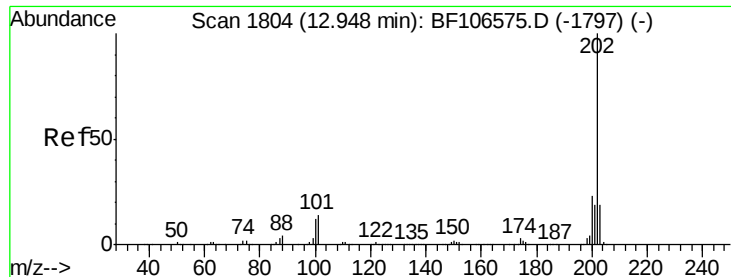
Sohil  
 7/5/2018 1:04:36 PM



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.15 min Scan# 2008  
 Delta R.T. -0.02 min  
 Lab File: BF107091.D  
 Acq: 3 Jul 2018 19:24

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 148316 |       |       |
| 120     | 8.9  | 9.5   | 14.3#  |       |       |
| 236     | 25.3 | 20.7  | 31.1   |       |       |





#77

Pvrene

Concen: 21.487 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.00 min

Lab File: BF107091.D

Acq: 3 Jul 2018 19:24

Instrument :

BNA\_F

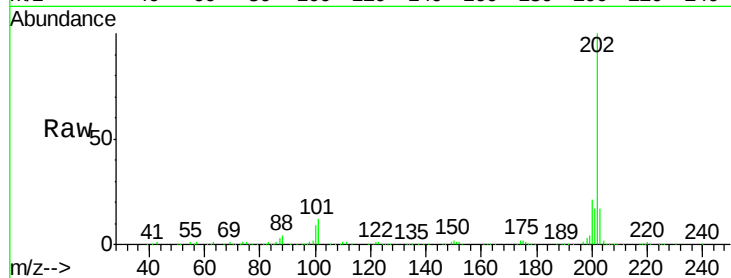
ClientSampleId :

NB-08-062918

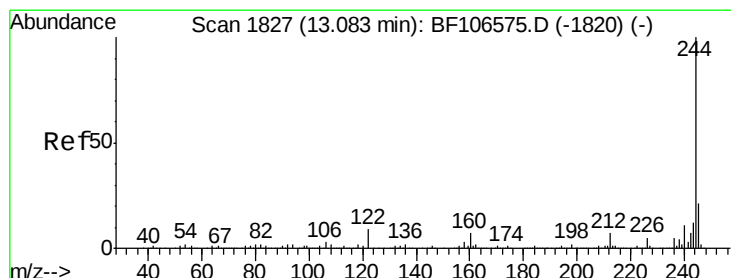
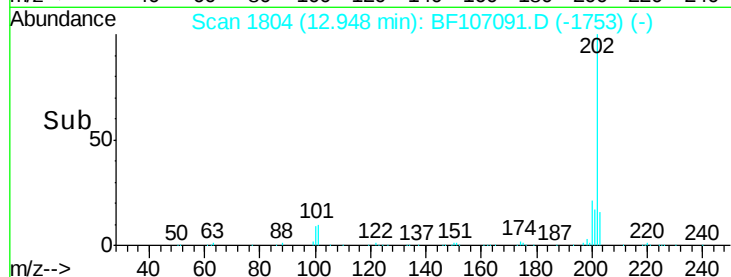
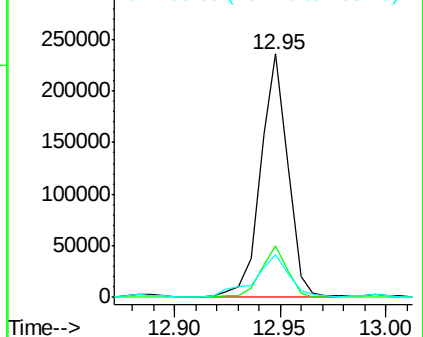
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 210147 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 21.1 | 17.4  | 26.2   |
| 203       | 17.3 | 14.3  | 21.5   |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 46.543 ng

RT: 13.08 min Scan# 1826

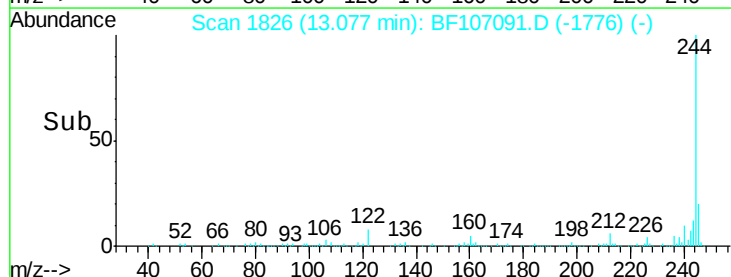
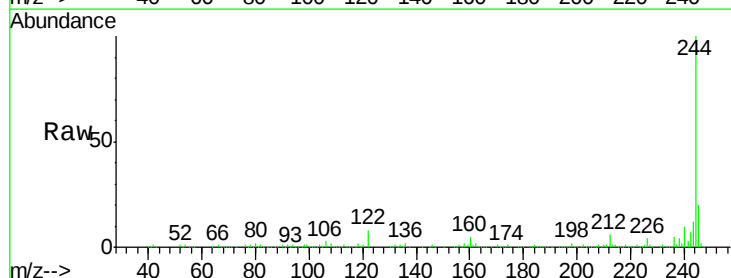
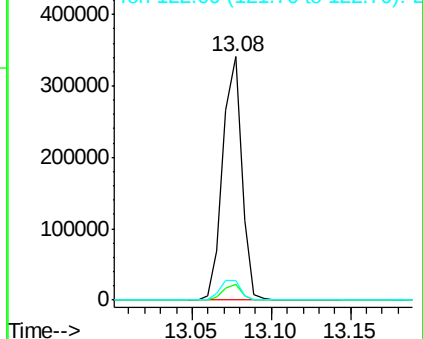
Delta R.T. -0.01 min

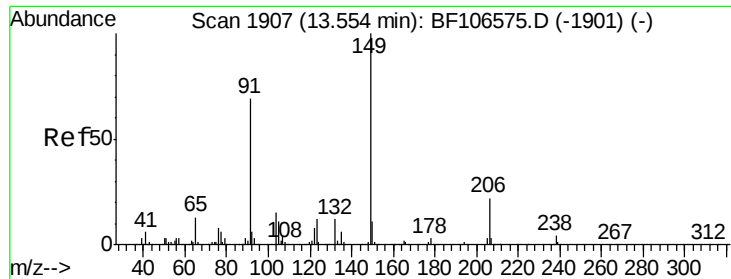
Lab File: BF107091.D

Acq: 3 Jul 2018 19:24

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 244 | Resp: | 284978 |
| Ion Ratio |     | Lower | Upper  |
| 244       | 100 |       |        |
| 212       | 6.3 | 5.4   | 8.0    |
| 122       | 7.9 | 11.0  | 16.4   |

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





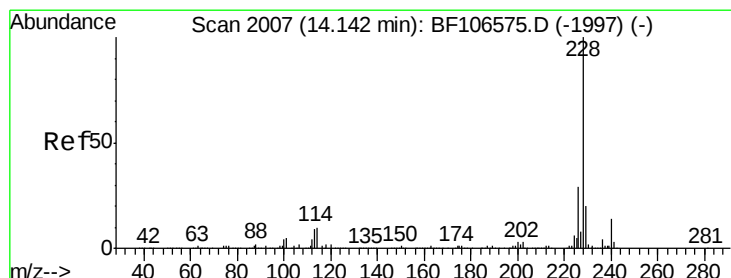
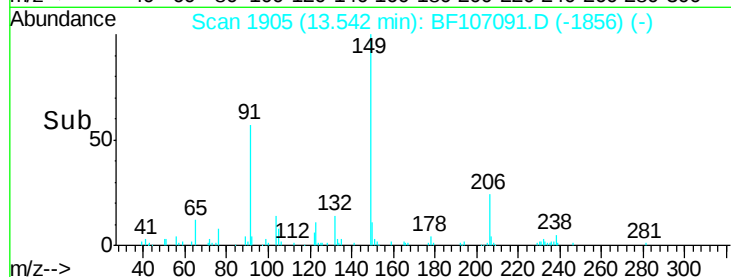
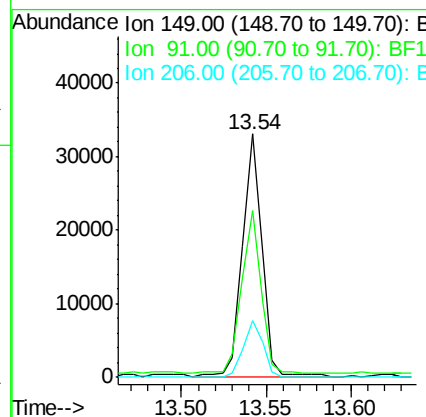
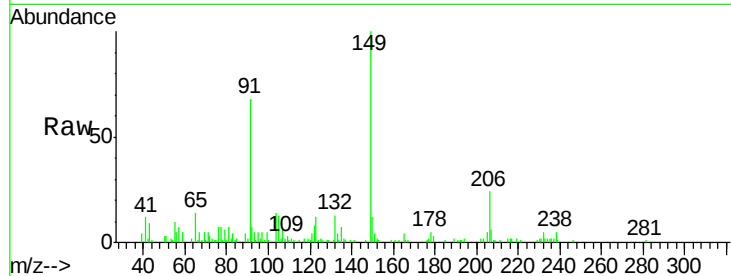
#79  
Butylbenzylphthalate  
Concen: 6.689 ng  
RT: 13.54 min Scan# 1905  
Delta R.T. -0.01 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 68.3  | 56.8  | 85.2  |
| 206     | 23.5  | 14.1  | 21.1  |

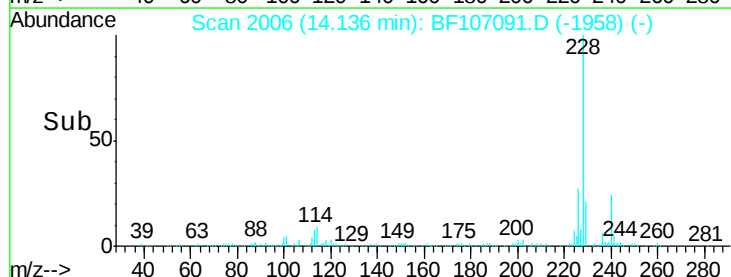
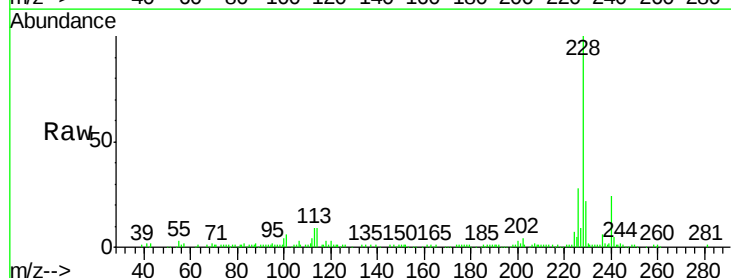
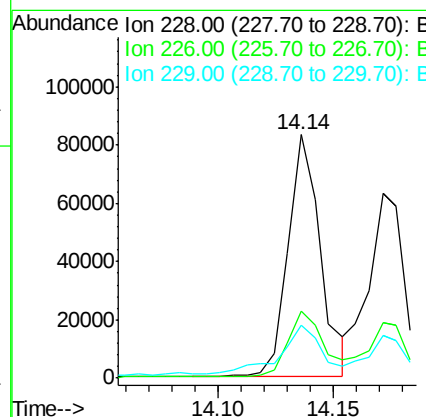
Manual Integrations  
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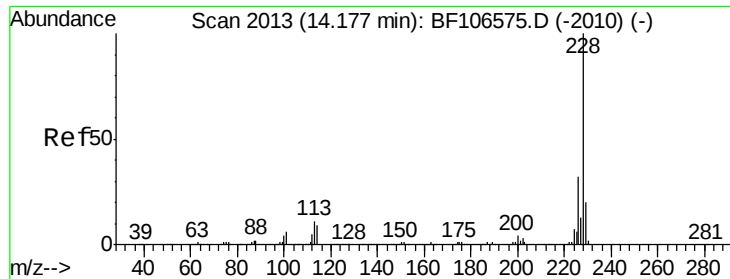
Sohil  
7/5/2018 1:04:36 PM



#80  
Benzo(a)anthracene  
Concen: 8.860 ng  
RT: 14.14 min Scan# 2006  
Delta R.T. -0.02 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 22.6  | 33.8  |
| 229     | 21.8  | 15.8  | 23.6  |





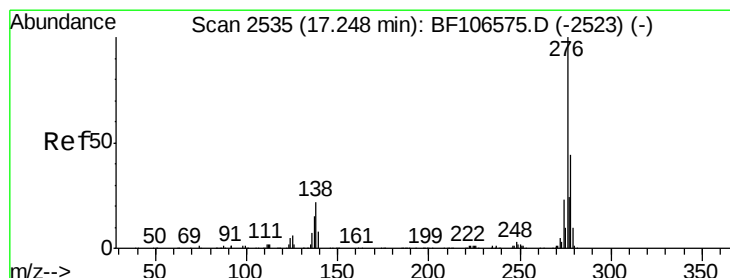
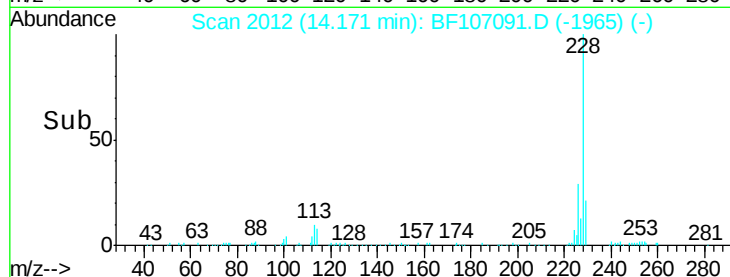
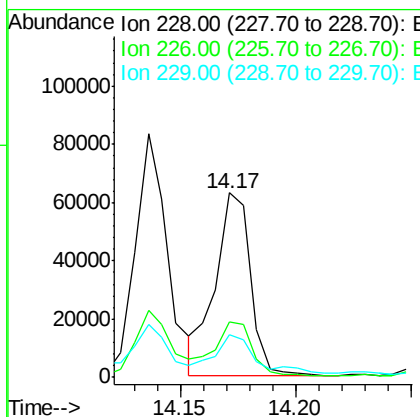
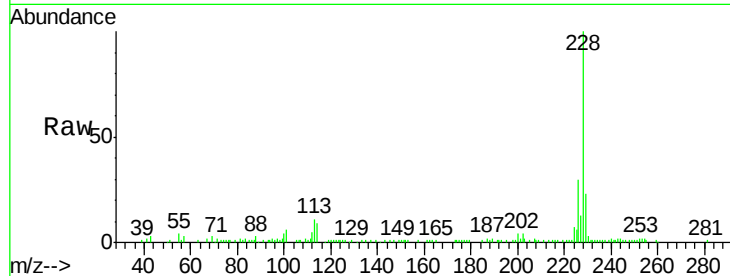
#82  
Chrysene  
Concen: 8.037 ng  
RT: 14.17 min Scan# 2012  
Delta R.T. -0.02 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 25.0  | 37.6  |
| 229     | 23.4  | 16.2  | 24.4  |

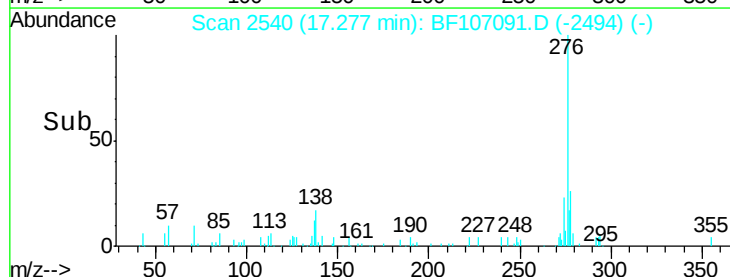
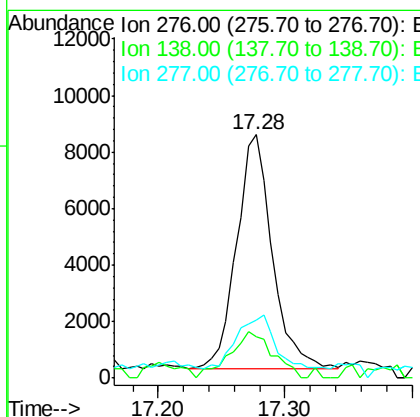
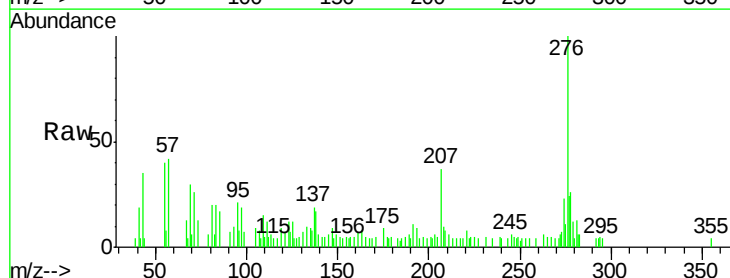
Manual Integrations  
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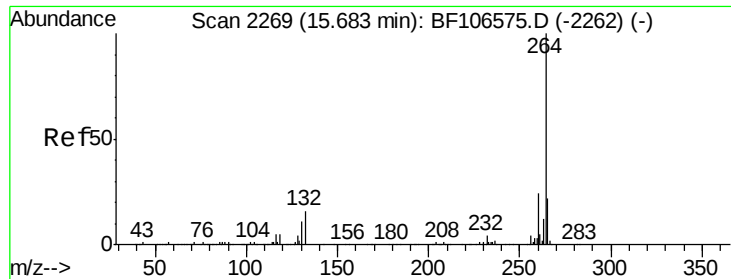
Sohil  
7/5/2018 1:04:36 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.298 ng  
RT: 17.28 min Scan# 2540  
Delta R.T. -0.03 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.8  | 25.0  | 37.6# |
| 277     | 24.5  | 20.1  | 30.1  |





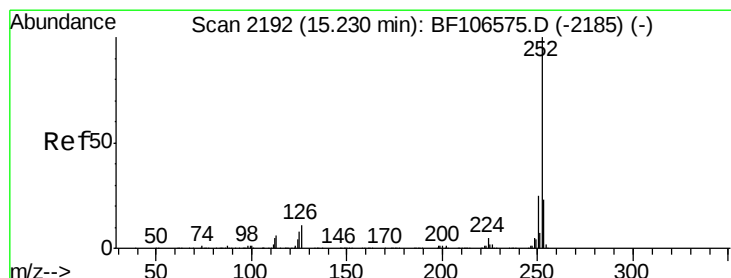
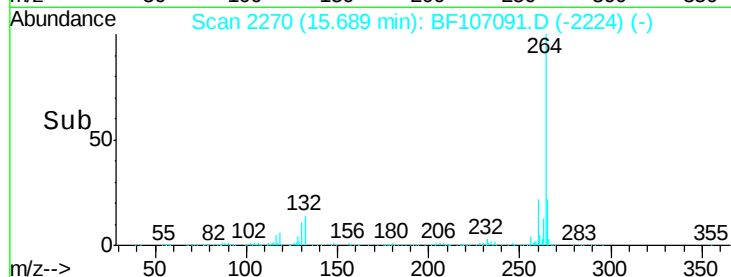
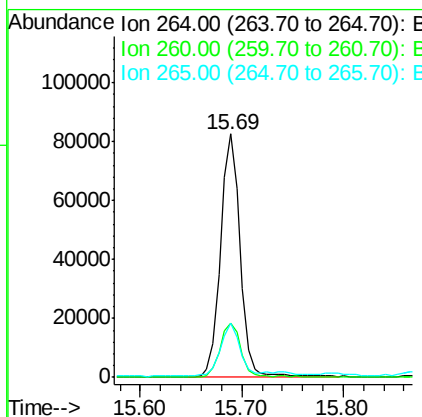
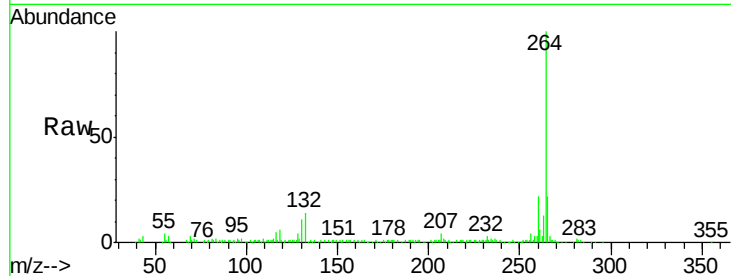
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.69 min Scan# 2270  
Delta R.T. -0.03 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.0  | 19.2  | 28.8  |
| 265     | 22.4  | 17.5  | 26.3  |

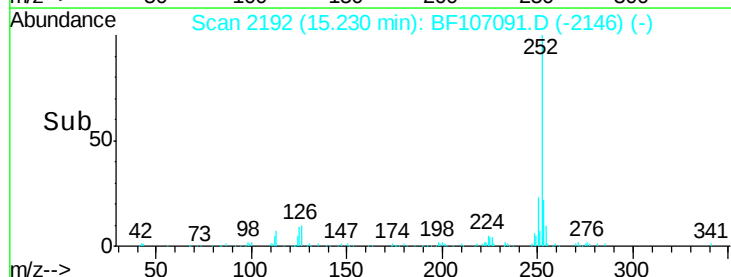
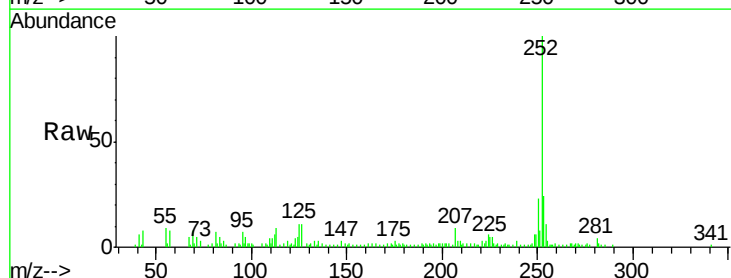
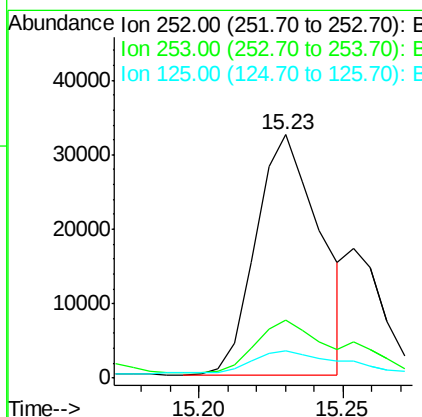
Manual Integrations  
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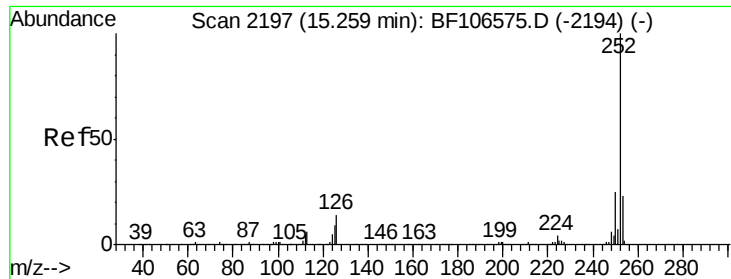
Sohil  
7/5/2018 1:04:36 PM



#87  
Benzo(b)fluoranthene  
Concen: 7.208 ng m  
RT: 15.23 min Scan# 2192  
Delta R.T. -0.03 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.0  | 25.6  |
| 125     | 11.2  | 9.0   | 13.6  |





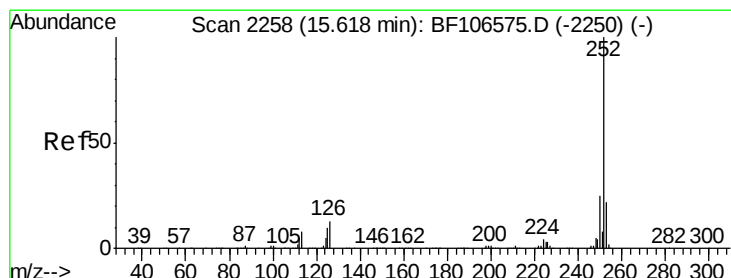
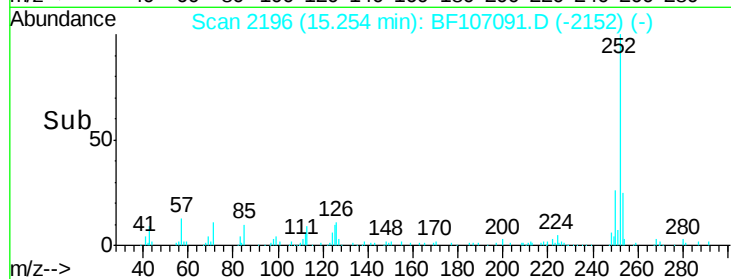
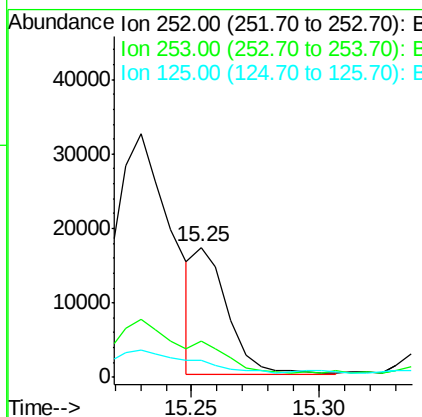
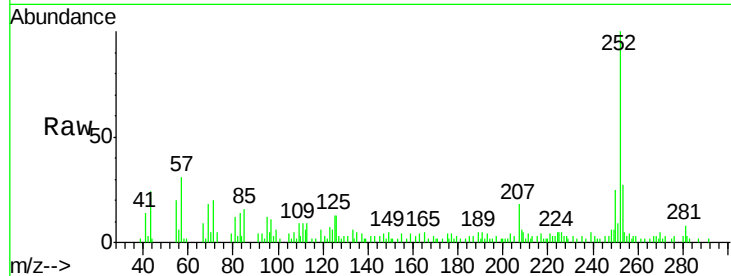
#88  
Benzo(k)fluoranthene  
Concen: 2.352 ng m  
RT: 15.25 min Scan# 2196  
Delta R.T. -0.04 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.5  | 17.9  | 26.9# |
| 125     | 13.3  | 10.2  | 15.2  |

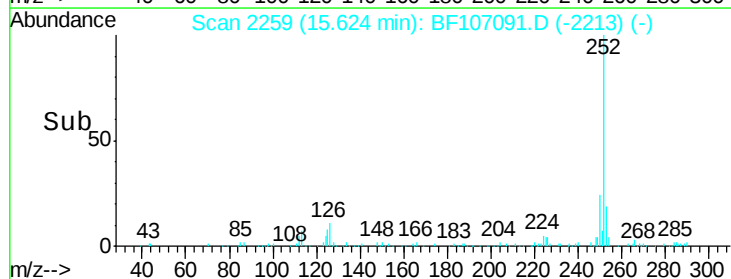
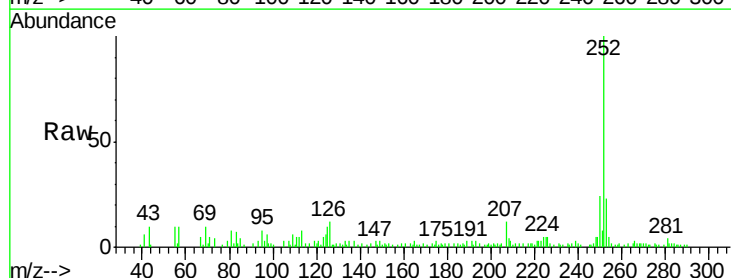
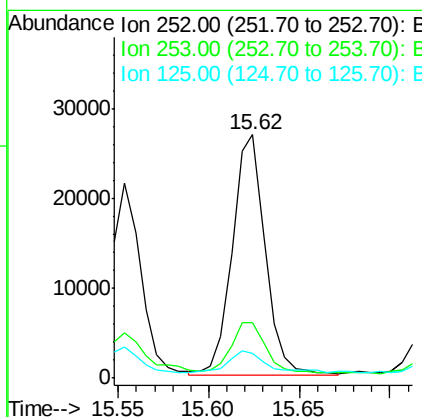
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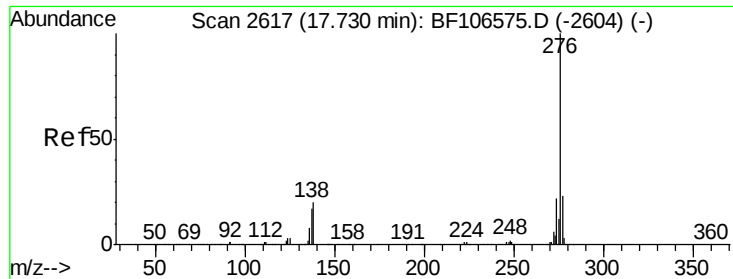
Sohil  
7/5/2018 1:04:36 PM



#89  
Benzo(a)pyrene  
Concen: 5.508 ng  
RT: 15.62 min Scan# 2259  
Delta R.T. -0.03 min  
Lab File: BF107091.D  
Acq: 3 Jul 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.1  | 25.7  |
| 125     | 10.3  | 9.8   | 14.6  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 3.880 ng  
 RT: 17.76 min Scan# 2622  
 Delta R.T. -0.03 min  
 Lab File: BF107091.D  
 Acq: 3 Jul 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-062918

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.4  | 17.9  | 26.9  |
| 138     | 18.6  | 21.8  | 32.8  |

Manual Integrations  
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