

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\  
 Data File : BF107601.D  
 Acq On : 23 Jul 2018 21:07  
 Operator : JU/SJ  
 Sample : J4106-02  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MARKET-ST

Manual Integrations  
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 7/24/2018 5:26:21 PM

Quant Time: Jul 24 04:35:45 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.98  | 152  | 223182   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.26  | 136  | 760436   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 10.02 | 164  | 297783   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.51 | 188  | 642529   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 14.17 | 240  | 508032   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 15.71 | 264  | 385608   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.61  | 112  | 1313014  | 94.59  | ng    | 0.00        |
| 7) Phenol-d6                | 6.61  | 99   | 1543464  | 92.60  | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 883807   | 78.44  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.81 | 330  | 375921   | 111.01 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1394284  | 78.52  | ng    | 0.00        |
| 78) Terphenyl-d14           | 13.10 | 244  | 1612579  | 81.26  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 49) Dimethylphthalate       | 9.72  | 163  | 110012   | 4.902  | ng    | Qvalue # 97 |
| 70) Phenanthrene            | 11.54 | 178  | 160657   | 5.131  | ng    | 98          |
| 74) Fluoranthene            | 12.74 | 202  | 285448   | 8.496  | ng    | 96          |
| 77) Pyrene                  | 12.97 | 202  | 312696   | 8.998  | ng    | 96          |
| 80) Benzo(a)anthracene      | 14.15 | 228  | 133652   | 4.489  | ng    | 95          |
| 82) Chrysene                | 14.19 | 228  | 137910   | 4.822  | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene  | 17.28 | 276  | 52823    | 2.179  | ng    | # 88        |
| 87) Benzo(b)fluoranthene    | 15.25 | 252  | 116171m  | 5.505  | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.27 | 252  | 41712m   | 2.017  | ng    |             |
| 89) Benzo(a)pyrene          | 15.64 | 252  | 83511    | 4.326  | ng    | # 94        |
| 91) Benzo(g,h,i)perylene    | 17.77 | 276  | 55691    | 3.383  | ng    | # 85        |

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

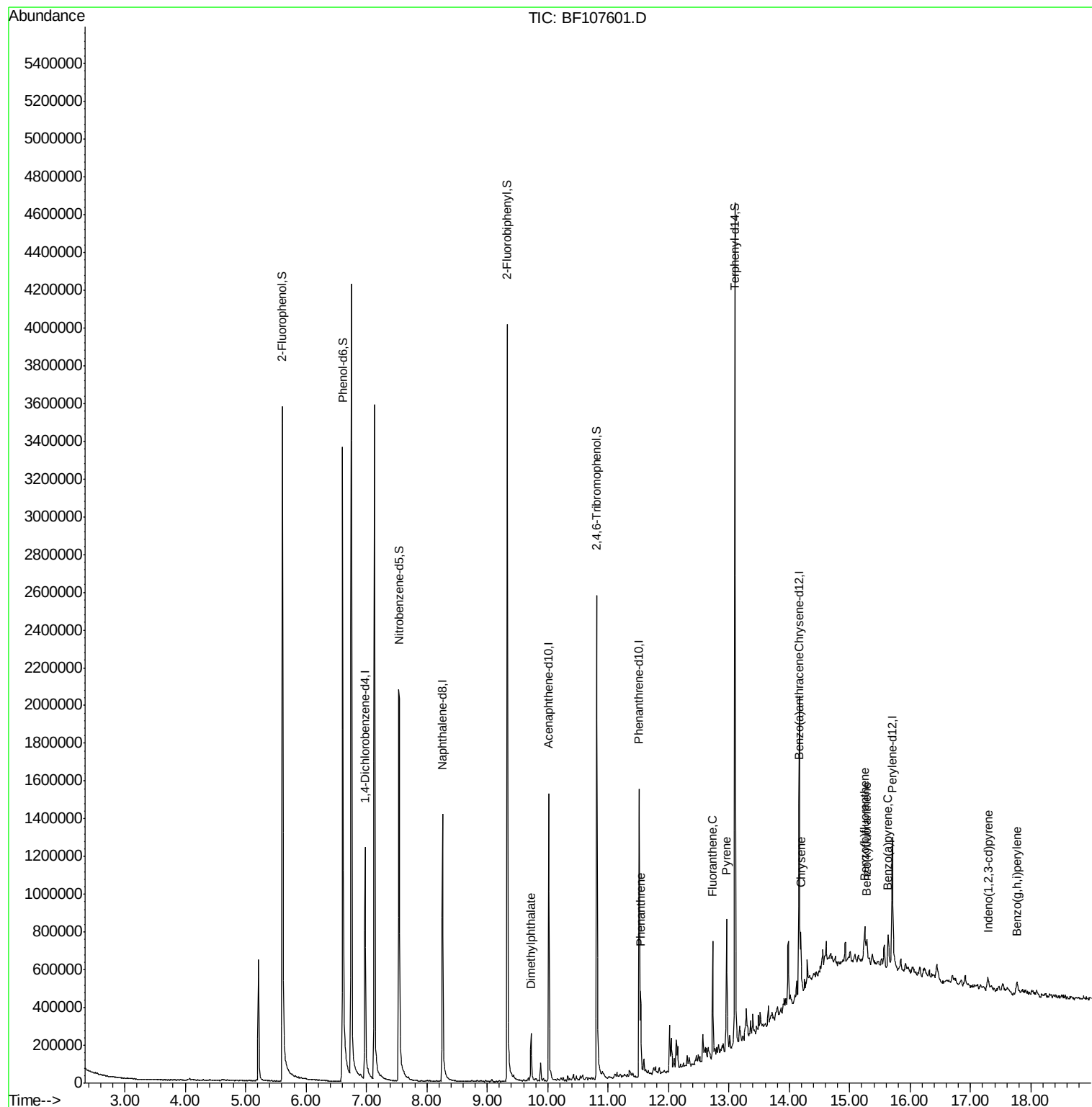
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\  
Data File : BF107601.D  
Acq On : 23 Jul 2018 21:07  
Operator : JU/SJ  
Sample : J4106-02  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

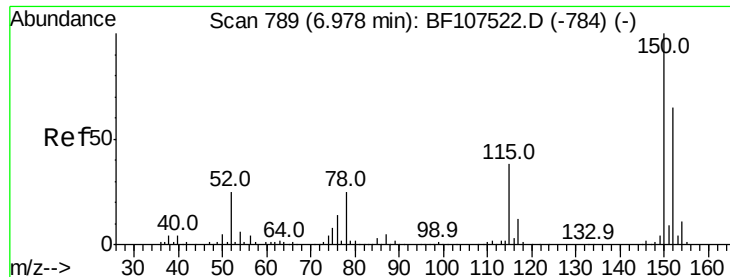
Instrument :  
BNA\_F  
ClientSampleId :  
MARKET-ST

Quant Time: Jul 24 04:35:45 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 20 16:29:27 2018  
Response via : Initial Calibration

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#1

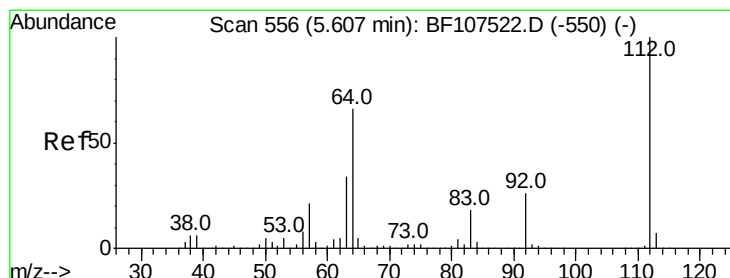
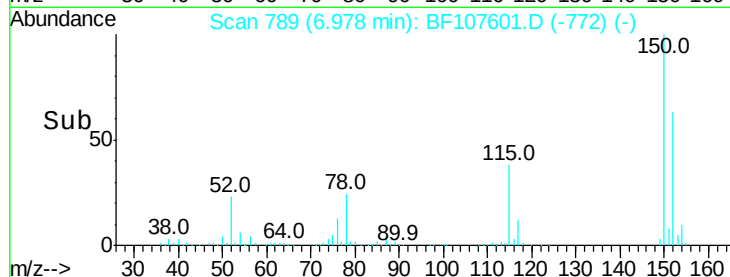
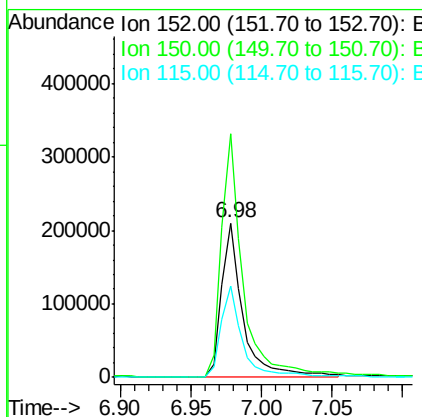
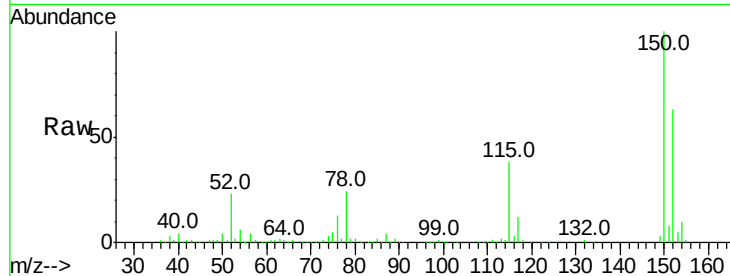
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.98 min Scan# 789  
Delta R.T. 0.00 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

Instrument :  
BNA\_F  
ClientSampled :  
MARKET-ST

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.6 | 124.6 | 186.8 |
| 115     | 59.4  | 50.1  | 75.1  |

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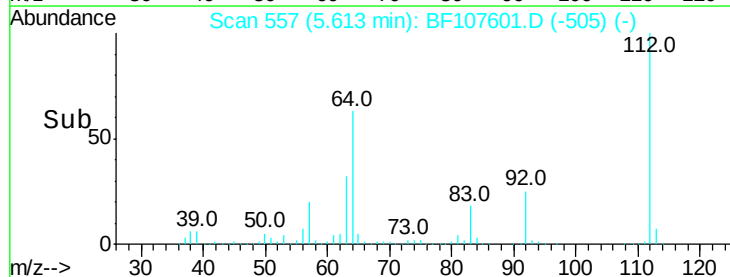
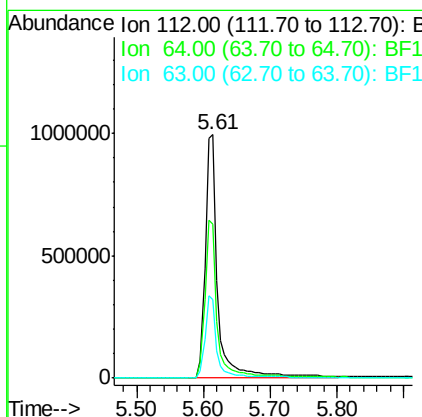
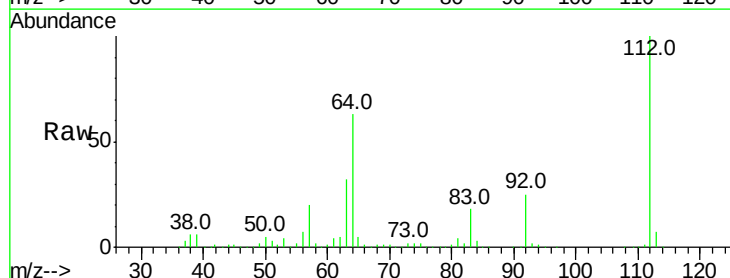
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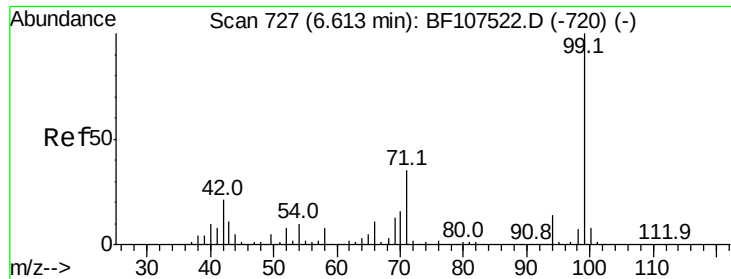


#5

2-Fluorophenol  
Concen: 94.590 ng  
RT: 5.61 min Scan# 557  
Delta R.T. 0.01 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.1  | 47.9  | 71.9  |
| 63      | 32.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 92.603 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

Instrument :

BNA\_F

ClientSampleId :

MARKET-ST

Tot Ion: 99 Resp: 1543464

Ion Ratio Lower Upper

99 100

42 20.6 14.5 21.7

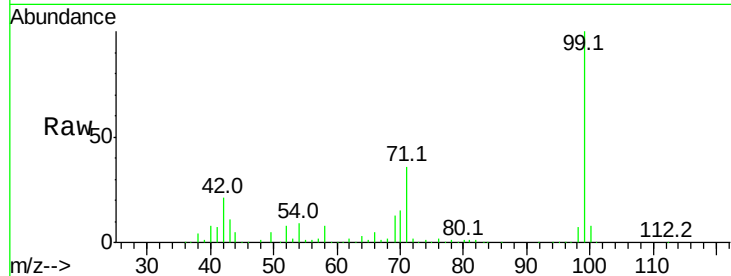
71 35.8 25.4 38.0

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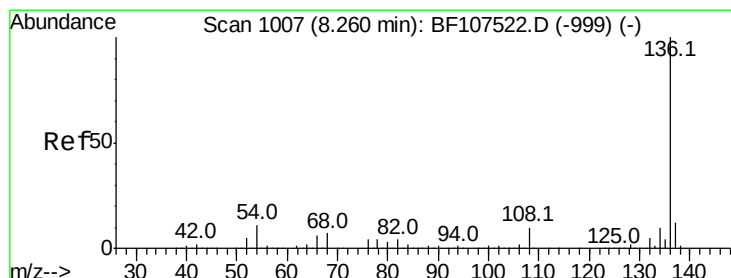
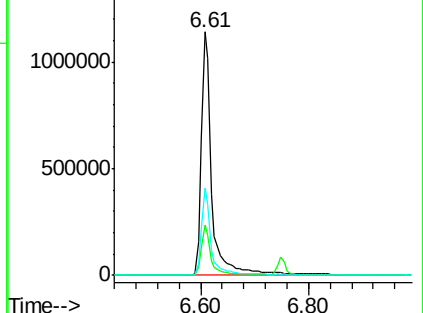
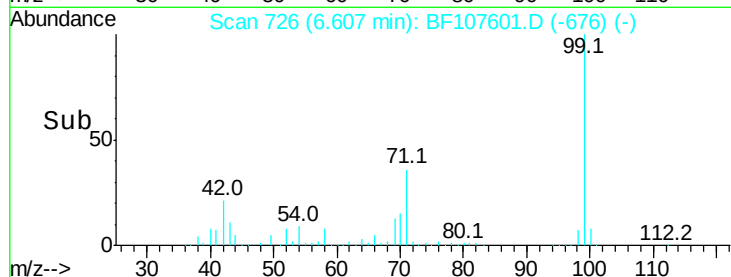
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

Tgt Ion: 136 Resp: 760436

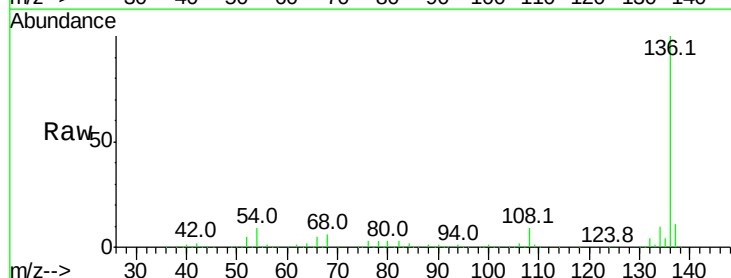
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 9.2 6.6 9.8

68 5.8 5.0 7.4

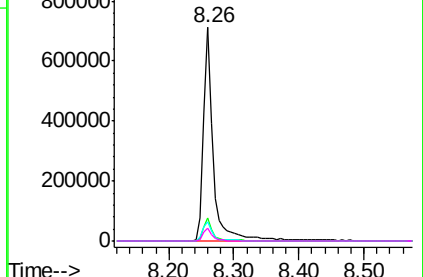
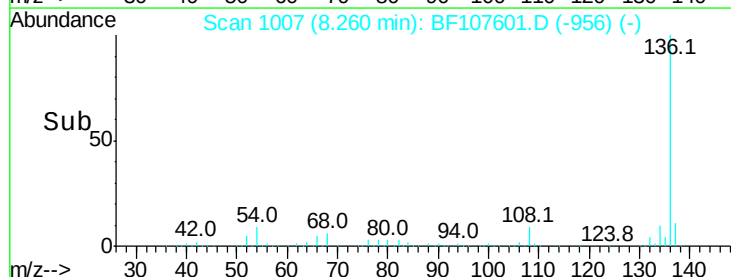


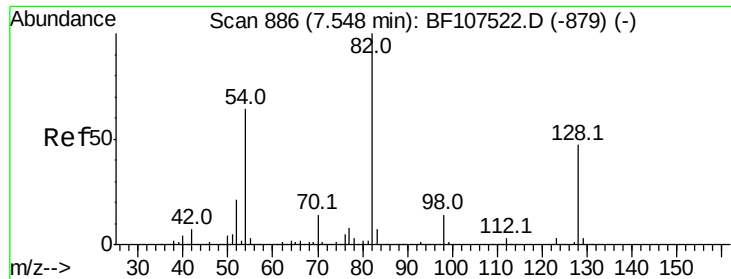
Abundance Ion 136.00 (135.70 to 136.70): E

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





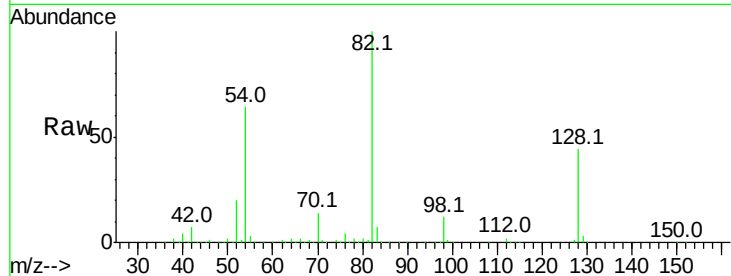
#23  
Nitrobenzene-d5  
Concen: 78.437 ng  
RT: 7.54 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

Instrument :  
BNA\_F  
ClientSampleId :  
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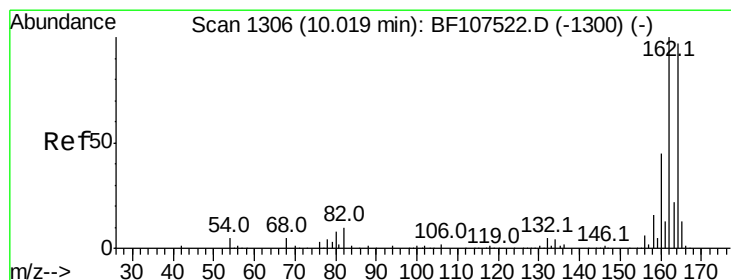
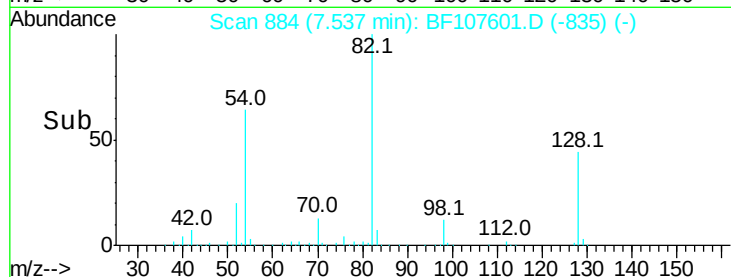
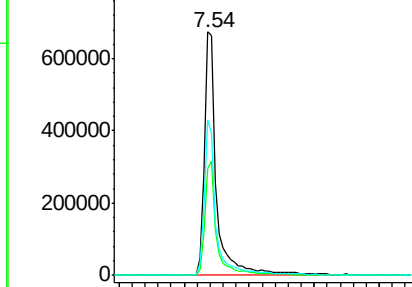
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.7  | 36.1  | 54.1  |
| 54      | 63.7  | 41.4  | 62.2  |

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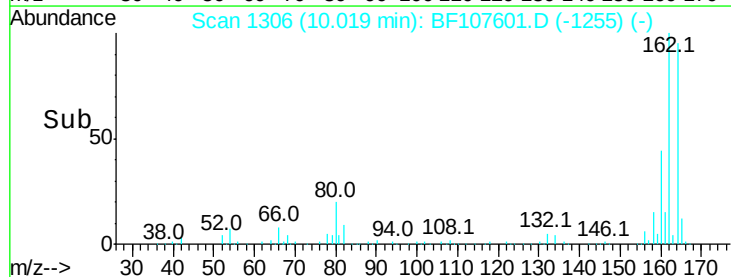
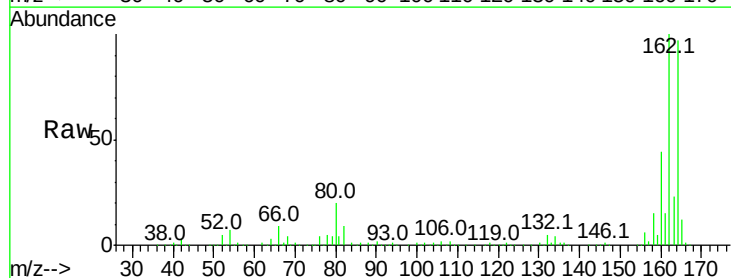
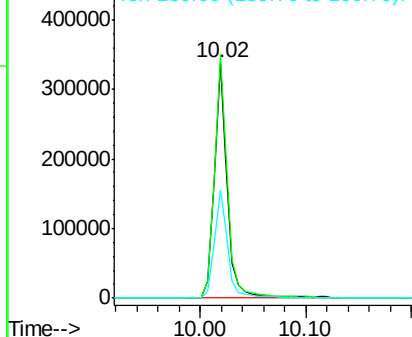
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

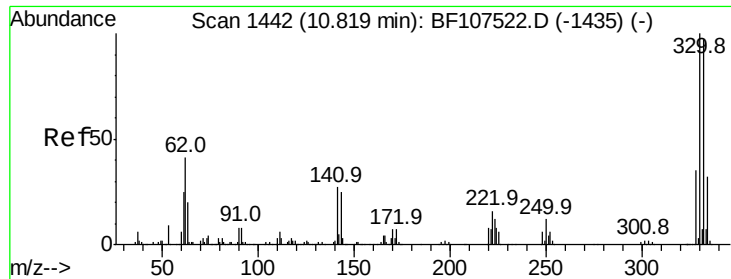


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.02 min Scan# 1306  
Delta R.T. 0.00 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.6 | 86.1  | 129.1 |
| 160     | 46.0  | 38.3  | 57.5  |

Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





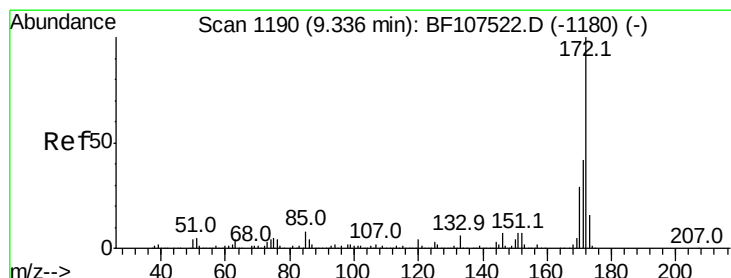
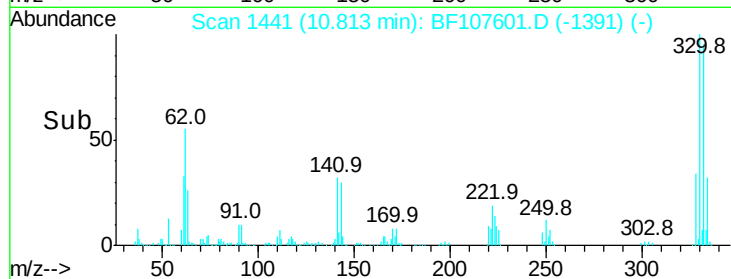
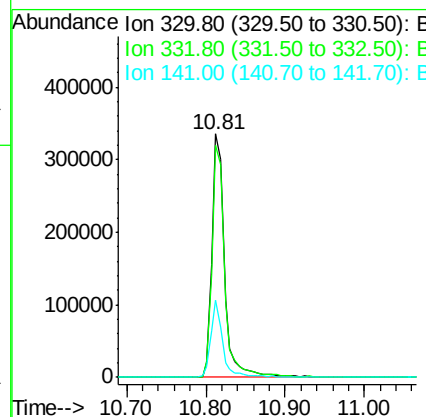
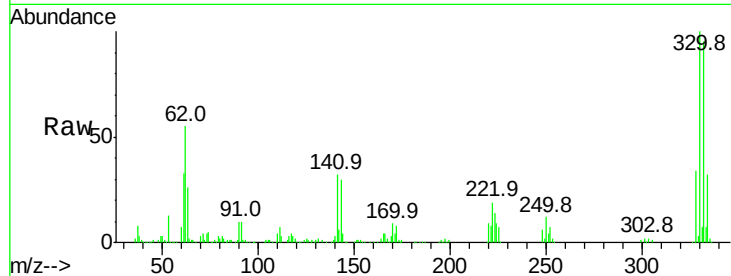
#41  
 2,4,6-Tribromophenol  
 Concen: 111.014 ng  
 RT: 10.81 min Scan# 1441  
 Delta R.T. -0.01 min  
 Lab File: BF107601.D  
 Acq: 23 Jul 2018 21:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
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| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.6  | 77.0 | 115.6 |       |
| 141     | 30.3  | 29.9 | 44.9  |       |

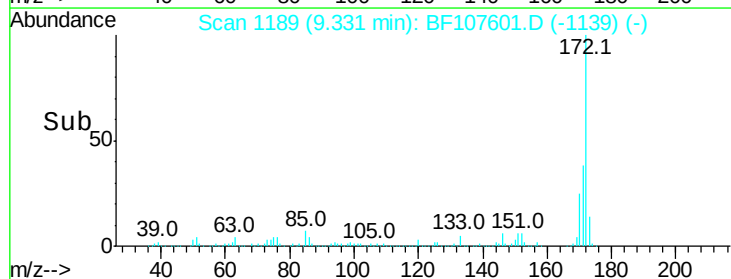
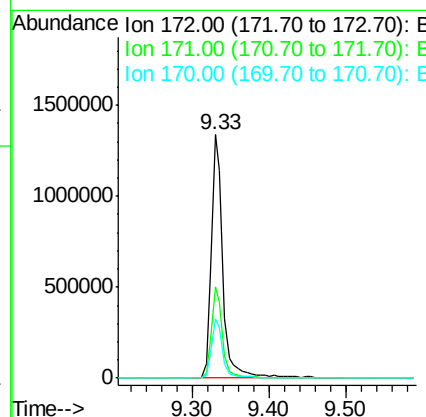
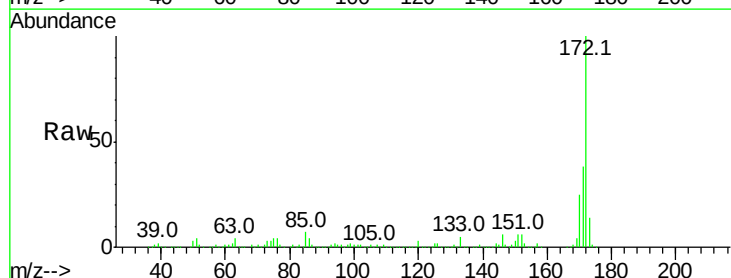
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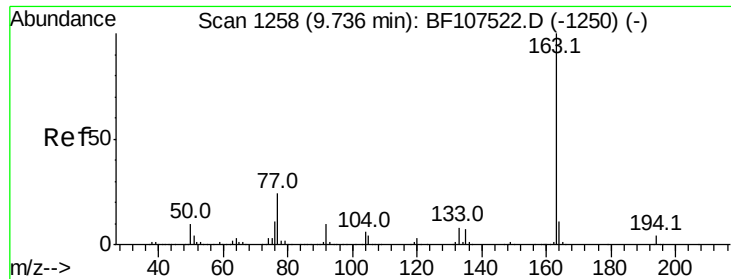
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#44  
 2-Fluorobiphenyl  
 Concen: 78.523 ng  
 RT: 9.33 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF107601.D  
 Acq: 23 Jul 2018 21:07

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 37.7  | 29.7 | 44.5  |       |
| 170     | 24.5  | 19.6 | 29.4  |       |





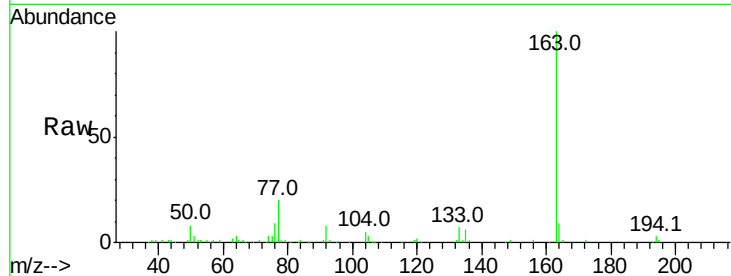
#49  
Dimethylphthalate  
Concen: 4.902 ng  
RT: 9.72 min Scan# 1256  
Delta R.T. -0.01 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

Instrument :  
BNA\_F  
ClientSampleId :  
MARKET-ST

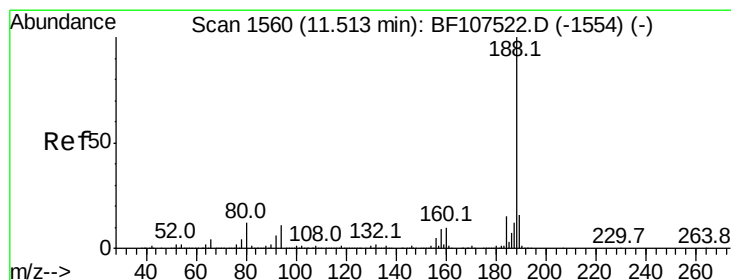
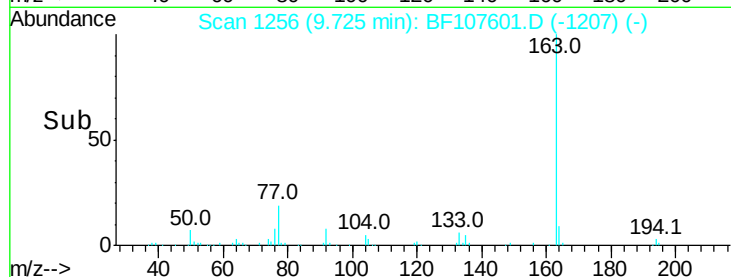
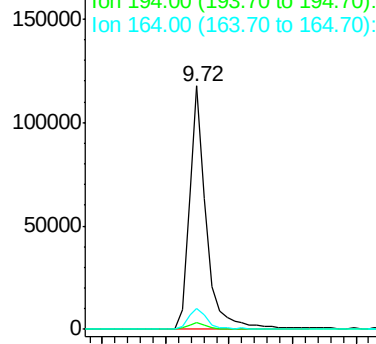
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 110012 |       |       |
| 194     | 2.6   |        | 2.7   | 4.1#  |
| 164     | 8.8   |        | 8.2   | 12.2  |

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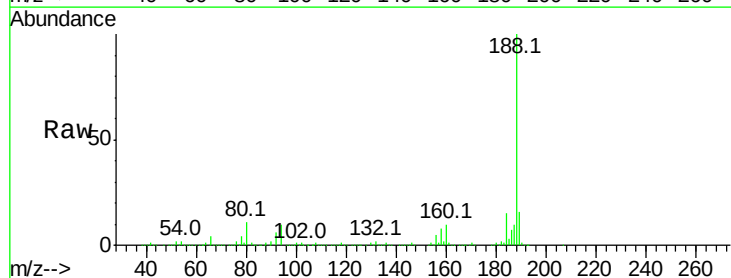


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

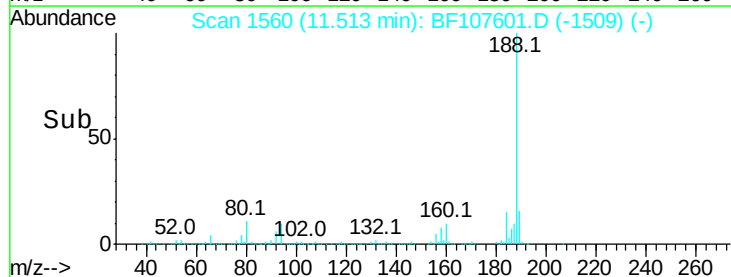
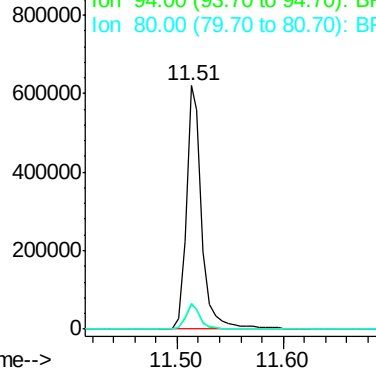


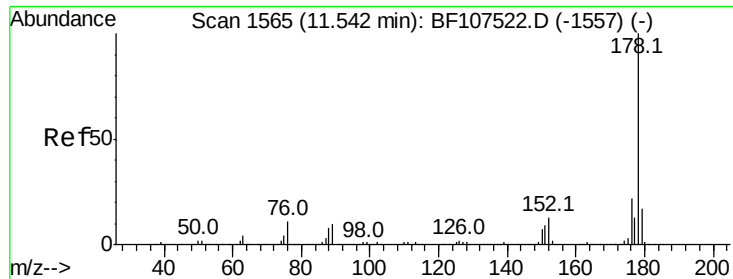
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. 0.00 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 642529 |       |       |
| 94      | 10.2  |        | 8.5   | 12.7  |
| 80      | 10.6  |        | 9.2   | 13.8  |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 5.131 ng

RT: 11.54 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

Instrument :

BNA\_F

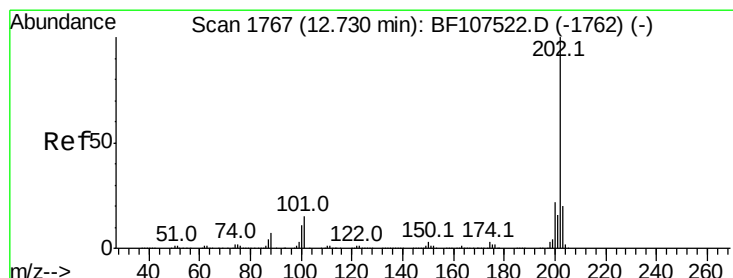
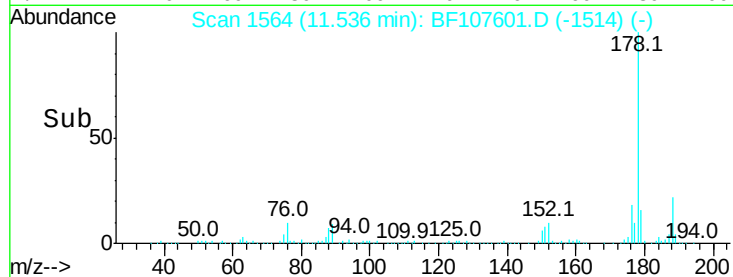
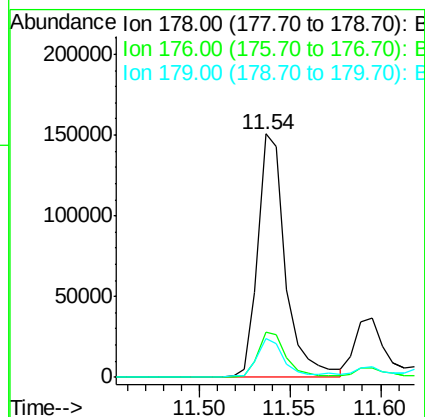
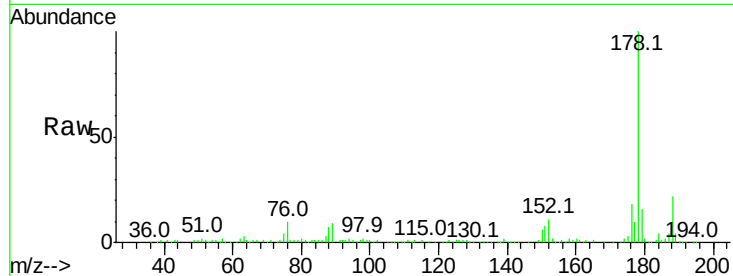
ClientSampled :

MARKET-ST

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 160657 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.5  | 15.8  | 23.8   |
| 179       | 16.0  | 13.0  | 19.6   |

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#74

Fluoranthene

Concen: 8.496 ng

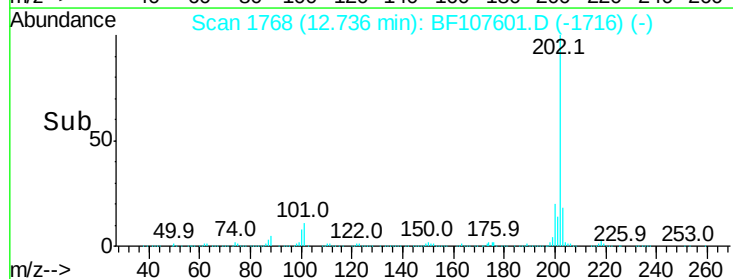
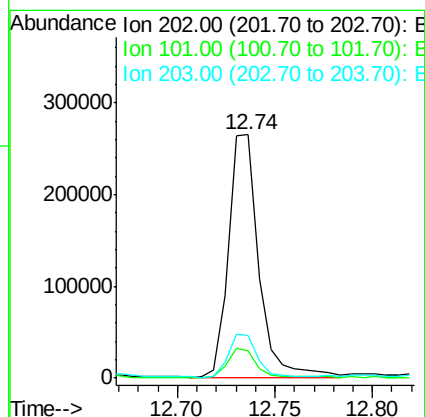
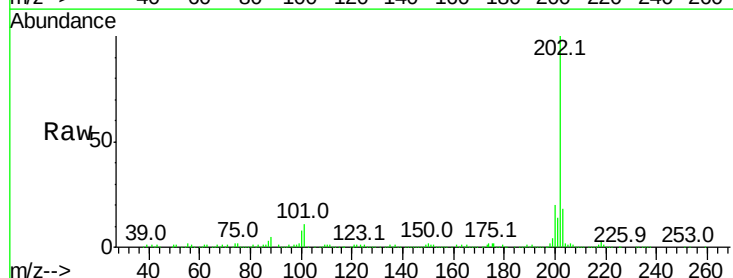
RT: 12.74 min Scan# 1768

Delta R.T. 0.01 min

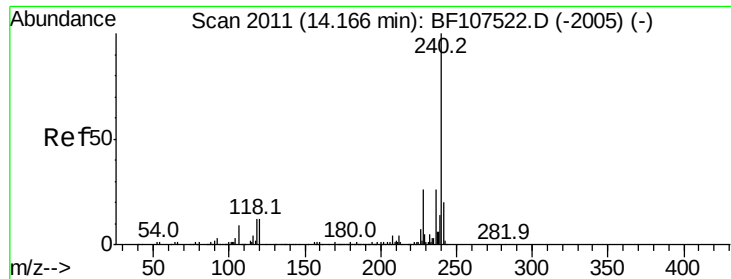
Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 285448 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.0  | 0.0   | 34.1   |
| 203       | 17.8  | 0.0   | 38.1   |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2011

Delta R.T. 0.00 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

Instrument :

BNA\_F

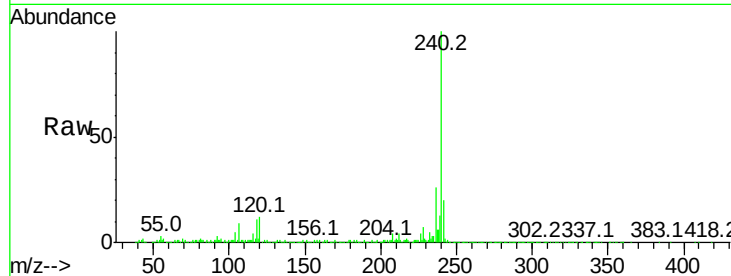
ClientSampleId :

MARKET-ST

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 12.2  | 9.5  | 14.3  |       |
| 236     | 26.0  | 20.7 | 31.1  |       |

Manual Integrations  
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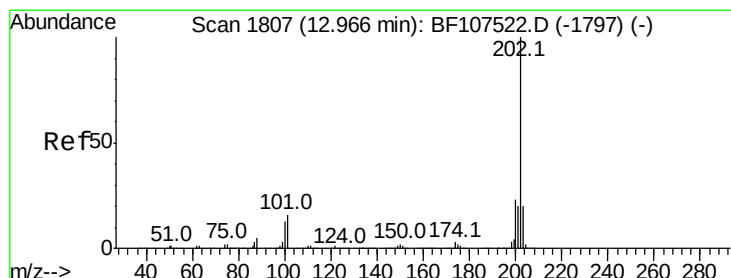
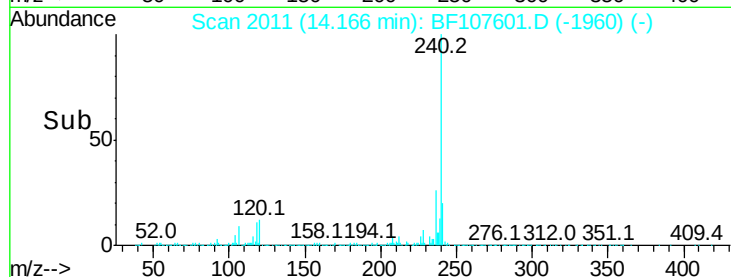
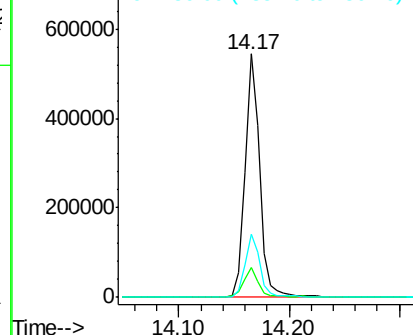
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 8.998 ng

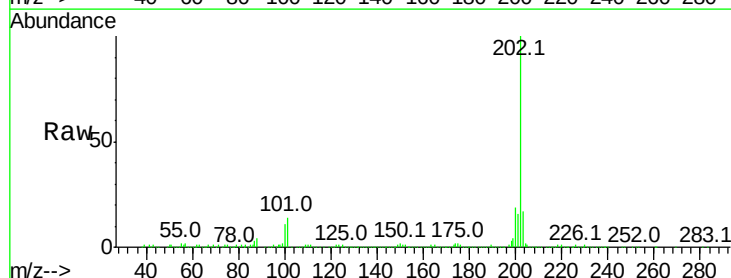
RT: 12.97 min Scan# 1807

Delta R.T. 0.00 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

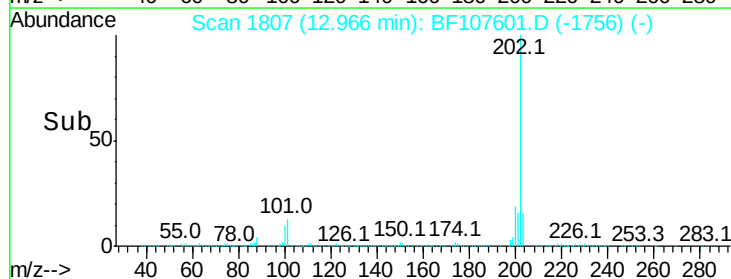
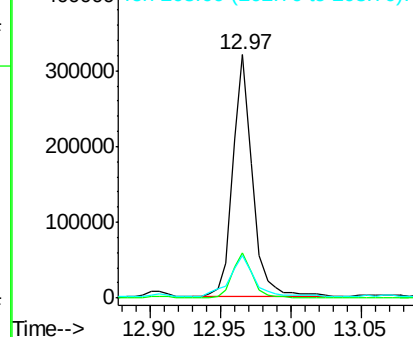
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 200     | 18.8  | 17.4 | 26.2  |       |
| 203     | 17.4  | 14.3 | 21.5  |       |

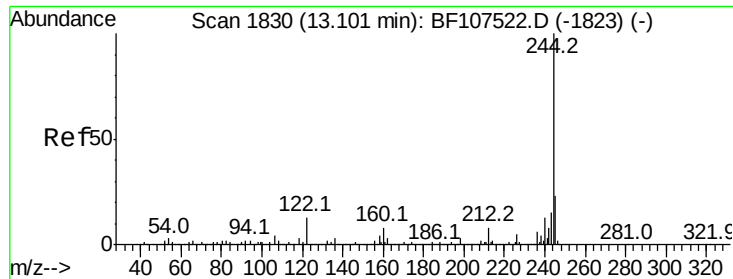


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78  
 Terphenyl-d14  
 Concen: 81.262 ng  
 RT: 13.10 min Scan# 1830  
 Delta R.T. 0.00 min  
 Lab File: BF107601.D  
 Acq: 23 Jul 2018 21:07

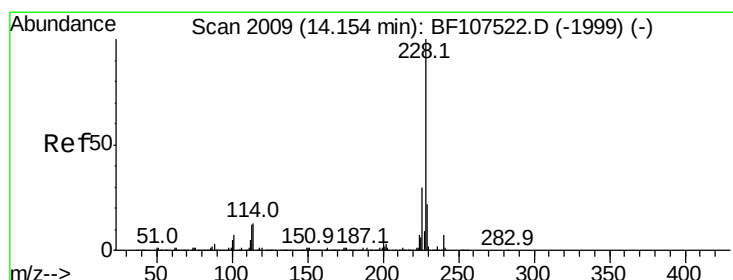
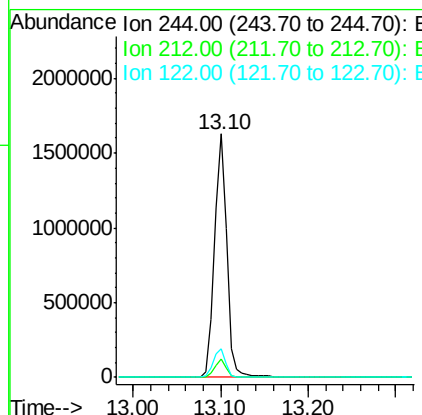
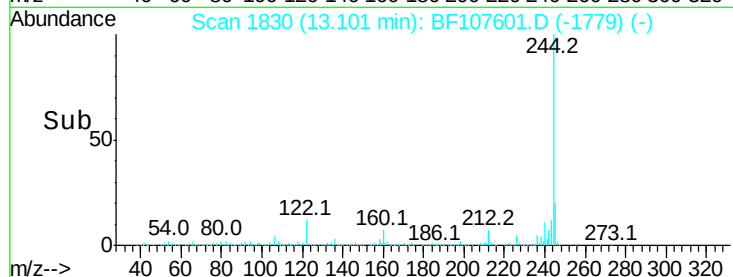
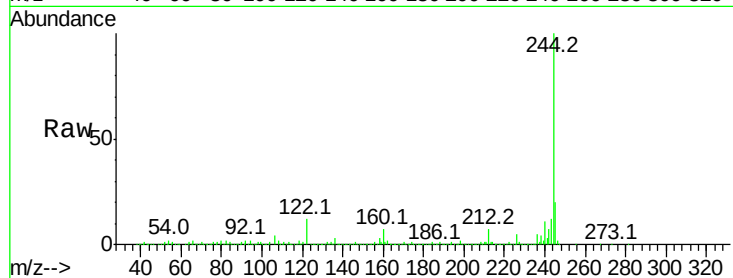
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MARKET-ST

Tot Ion:244 Resp: 1612579  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.3   | 5.4   | 8.0   |
| 122 | 12.0  | 11.0  | 16.4  |

Manual Integrations  
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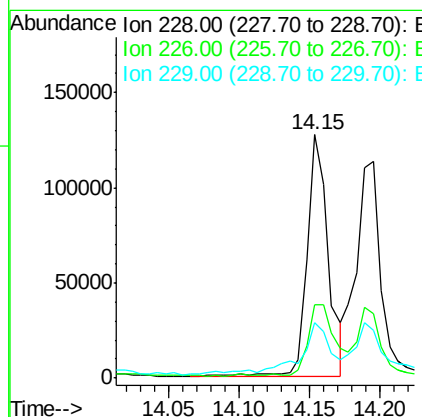
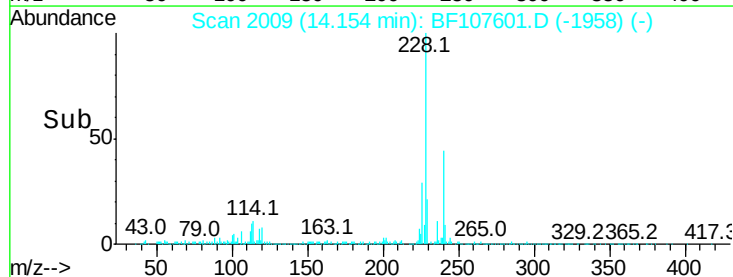
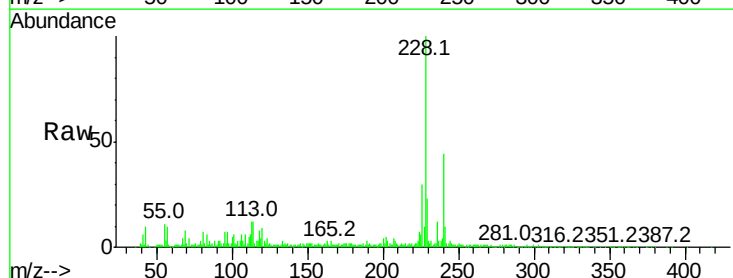
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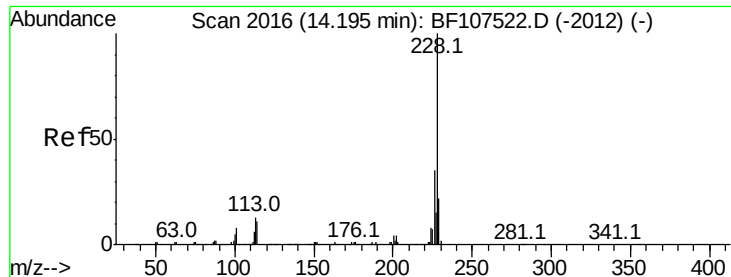


#80  
 Benzo(a)anthracene  
 Concen: 4.489 ng  
 RT: 14.15 min Scan# 2009  
 Delta R.T. 0.00 min  
 Lab File: BF107601.D  
 Acq: 23 Jul 2018 21:07

Tgt Ion:228 Resp: 133652  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.0  | 22.6  | 33.8  |
| 229 | 22.7  | 15.8  | 23.6  |





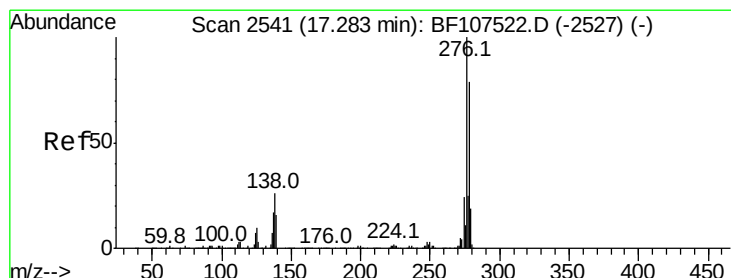
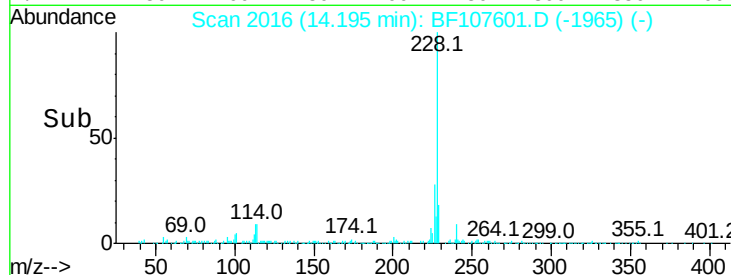
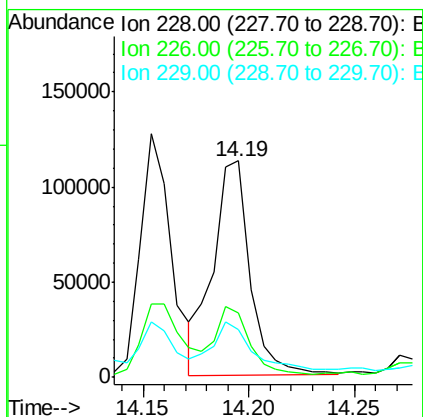
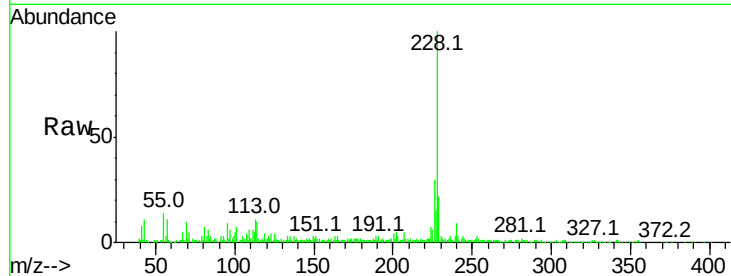
#82  
Chrysene  
Concen: 4.822 ng  
RT: 14.19 min Scan# 2016  
Delta R.T. 0.00 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

Instrument :  
BNA\_F  
ClientSampled :  
MARKET-ST

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 25.0  | 37.6  |
| 229     | 21.9  | 16.2  | 24.4  |

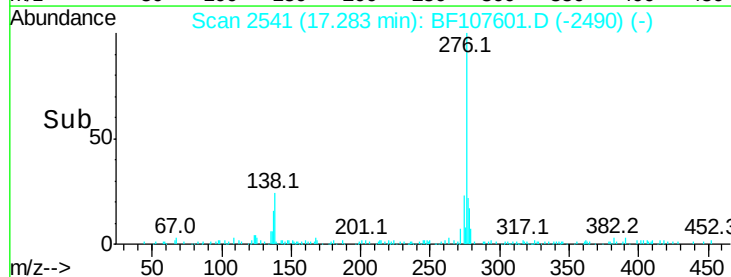
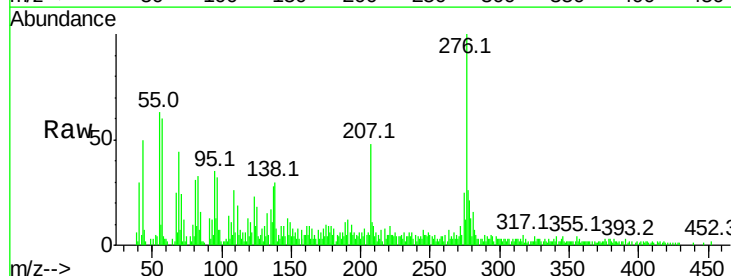
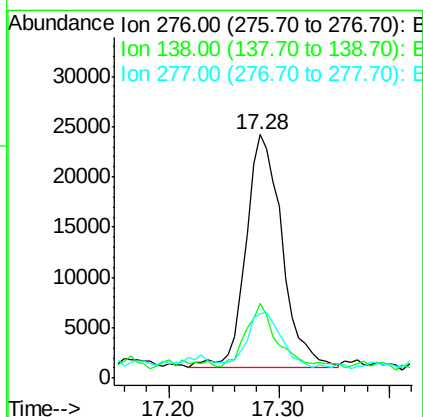
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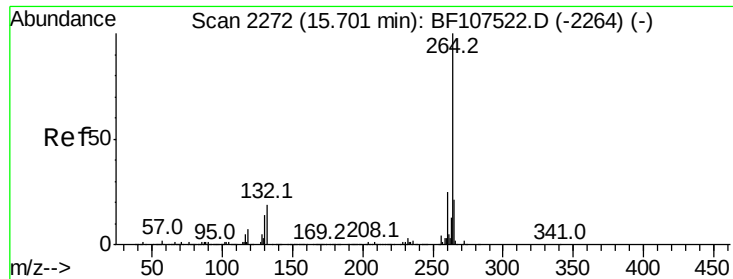
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.179 ng  
RT: 17.28 min Scan# 2541  
Delta R.T. 0.00 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.9  | 25.0  | 37.6# |
| 277     | 22.1  | 20.1  | 30.1  |





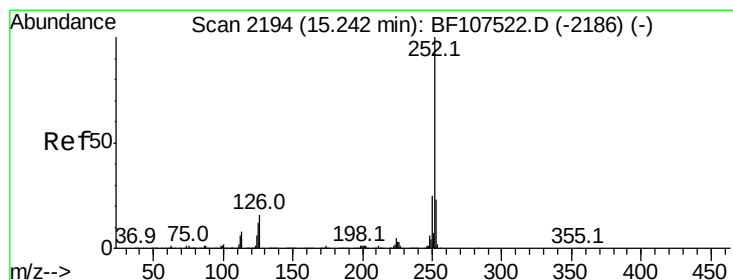
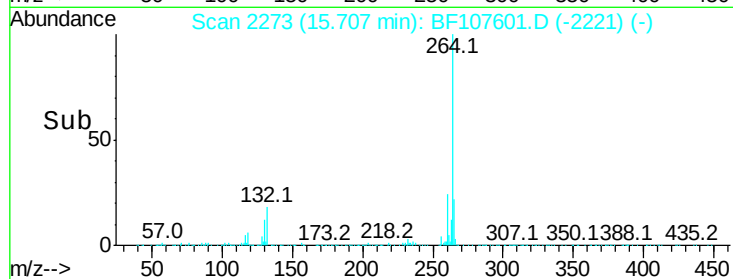
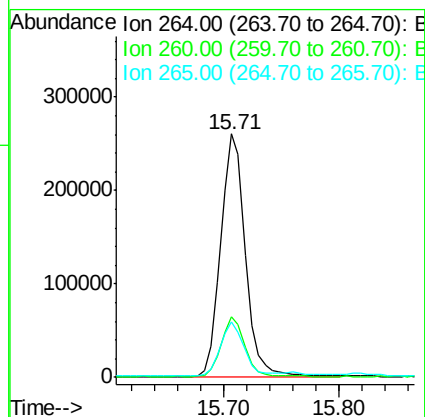
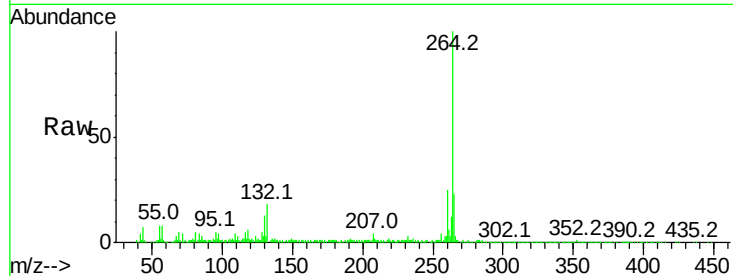
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.71 min Scan# 2273  
Delta R.T. 0.01 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

Instrument :  
BNA\_F  
ClientSampleId :  
MARKET-ST

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.2  | 28.8  |
| 265     | 23.0  | 17.5  | 26.3  |

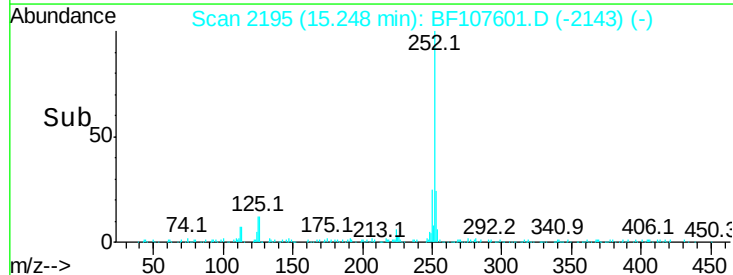
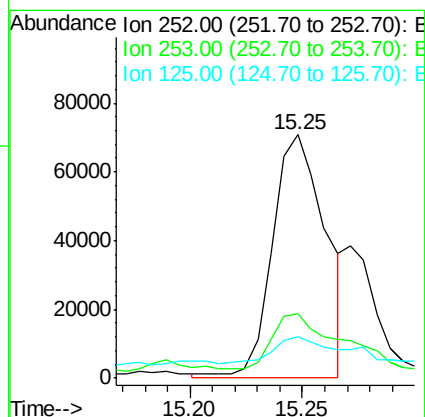
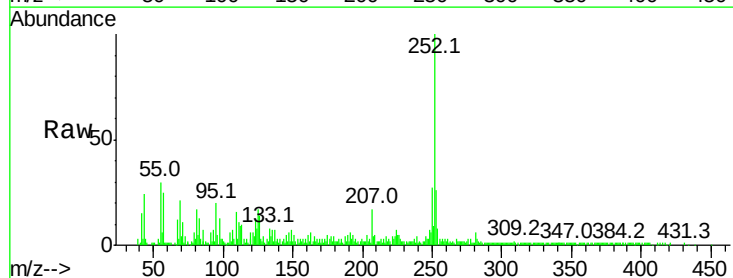
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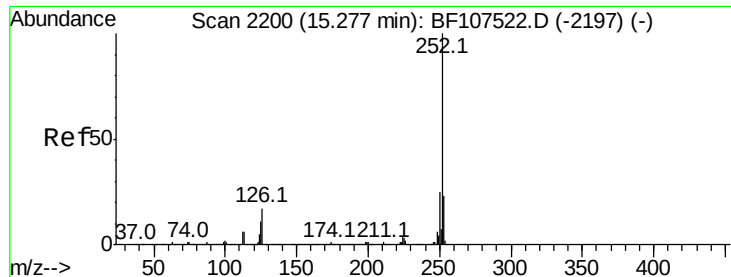
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#87  
Benzo(b)fluoranthene  
Concen: 5.505 ng m  
RT: 15.25 min Scan# 2195  
Delta R.T. 0.01 min  
Lab File: BF107601.D  
Acq: 23 Jul 2018 21:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.4  | 17.0  | 25.6# |
| 125     | 16.8  | 9.0   | 13.6# |





#88

Benzo(k)fluoranthene

Concen: 2.017 ng/mL

RT: 15.27 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

Instrument :

BNA\_F

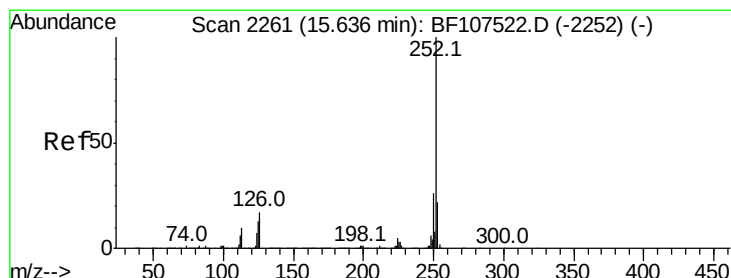
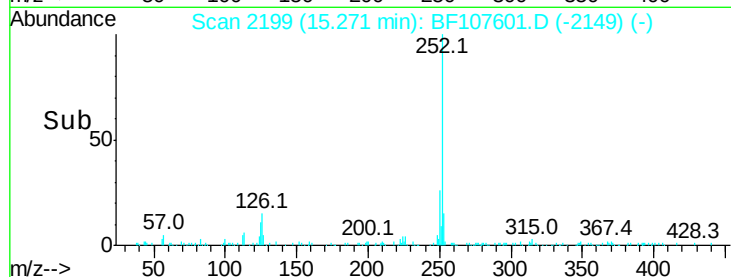
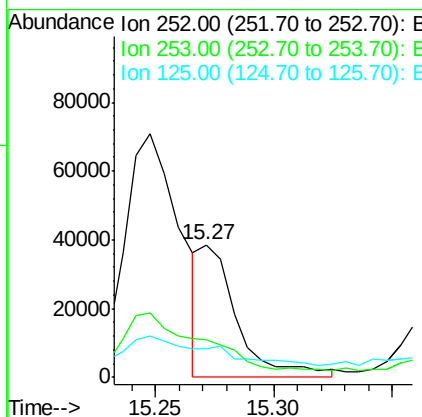
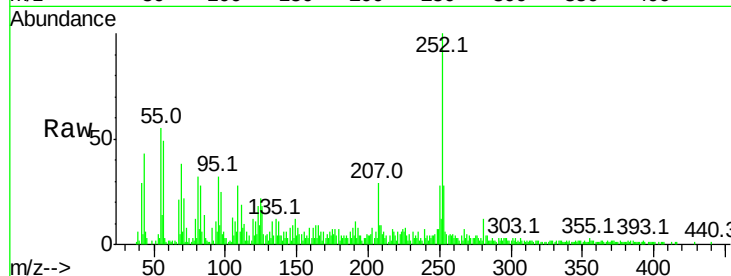
ClientSampleId :

MARKET-ST

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 41712 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.2  | 17.9  | 26.9# |
| 125       | 21.6  | 10.2  | 15.2# |

Manual Integrations  
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#89

Benzo(a)pyrene

Concen: 4.326 ng/mL

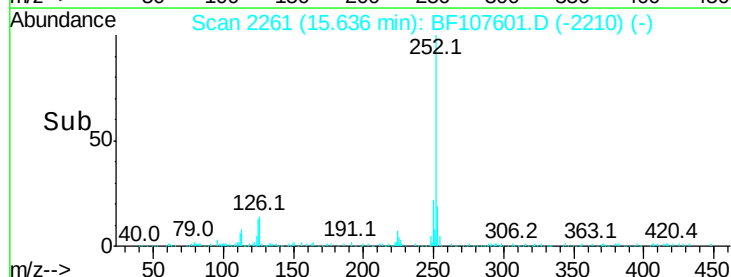
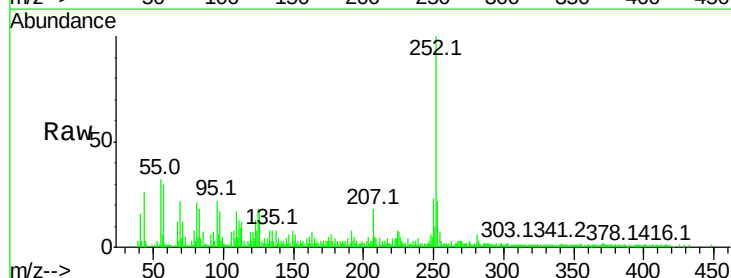
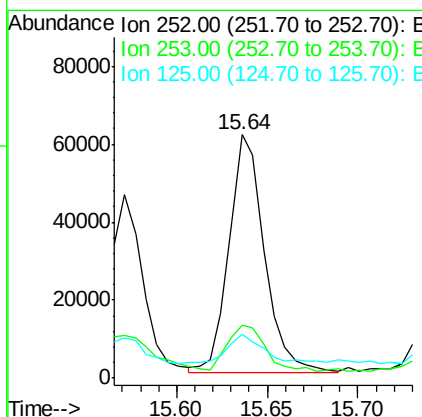
RT: 15.64 min Scan# 2261

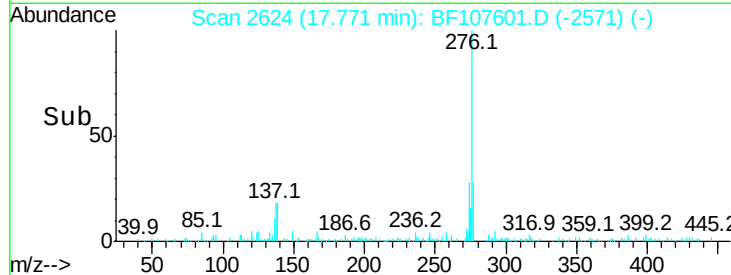
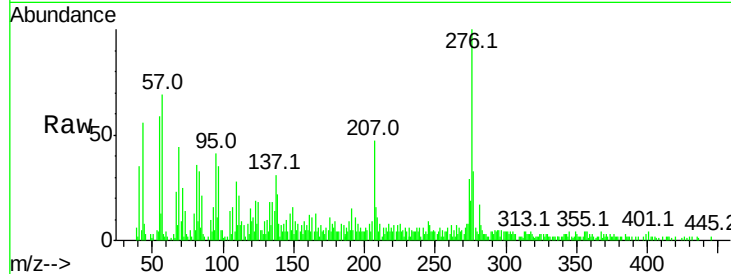
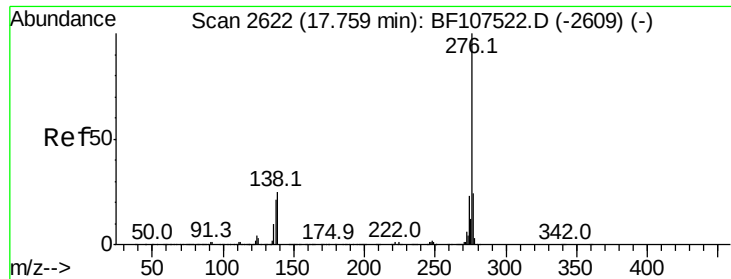
Delta R.T. 0.00 min

Lab File: BF107601.D

Acq: 23 Jul 2018 21:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 83511 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.6  | 17.1  | 25.7  |
| 125       | 18.3  | 9.8   | 14.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 3.383 ng  
 RT: 17.77 min Scan# 2624  
 Delta R.T. 0.01 min  
 Lab File: BF107601.D  
 Acq: 23 Jul 2018 21:07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 32.8  | 17.9  | 26.9# |
| 138     | 22.0  | 21.8  | 32.8  |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MARKET-ST

Manual Integrations  
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