

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
 Data File : BF107420.D  
 Acq On : 16 Jul 2018 23:22  
 Operator : JU/SJ  
 Sample : J3821-01 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-071218-A

Manual Integrations  
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Sohil  
 7/17/2018 4:53:14 PM

Quant Time: Jul 17 02:30:01 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 16 17:24:26 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.98  | 152  | 151422   | 20.00  | ng    | 0.00           |
| 21) Naphthalene-d8          | 8.27  | 136  | 575348   | 20.00  | ng    | 0.00           |
| 38) Acenaphthene-d10        | 10.02 | 164  | 269428   | 20.00  | ng    | 0.00           |
| 63) Phenanthrene-d10        | 11.51 | 188  | 508599   | 20.00  | ng    | 0.00           |
| 75) Chrysene-d12            | 14.17 | 240  | 465001   | 20.00  | ng    | 0.00           |
| 86) Perylene-d12            | 15.70 | 264  | 348098   | 20.00  | ng    | 0.01           |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.60  | 112  | 402134   | 40.33  | ng    | 0.00           |
| 7) Phenol-d6                | 6.60  | 99   | 527592   | 40.93  | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 351173   | 32.55  | ng    | 0.00           |
| 41) 2,4,6-Tribromophenol    | 10.81 | 330  | 97806    | 41.32  | ng    | 0.00           |
| 44) 2-Fluorobiphenyl        | 9.34  | 172  | 636040   | 32.69  | ng    | 0.00           |
| 78) Terphenyl-d14           | 13.10 | 244  | 622097   | 33.24  | ng    | 0.00           |
| Target Compounds            |       |      |          |        |       |                |
| 49) Dimethylphthalate       | 9.73  | 163  | 134973   | 6.305  | ng    | Qvalue<br># 97 |
| 70) Phenanthrene            | 11.54 | 178  | 309503   | 12.211 | ng    | 98             |
| 71) Anthracene              | 11.59 | 178  | 69853    | 2.767  | ng    | 94             |
| 74) Fluoranthene            | 12.73 | 202  | 460237   | 15.976 | ng    | 94             |
| 77) Pyrene                  | 12.97 | 202  | 436269   | 13.797 | ng    | 96             |
| 80) Benzo(a)anthracene      | 14.15 | 228  | 234892   | 8.256  | ng    | 97             |
| 82) Chrysene                | 14.19 | 228  | 231823   | 8.530  | ng    | 98             |
| 85) Indeno(1,2,3-cd)pyrene  | 17.26 | 276  | 67647    | 3.497  | ng    | # 91           |
| 87) Benzo(b)fluoranthene    | 15.24 | 252  | 226492m  | 11.116 | ng    |                |
| 88) Benzo(k)fluoranthene    | 15.27 | 252  | 73265m   | 3.685  | ng    |                |
| 89) Benzo(a)pyrene          | 15.63 | 252  | 149712   | 8.006  | ng    | # 90           |
| 91) Benzo(a,h,i)perylene    | 17.74 | 276  | 59962    | 4.181  | ng    | # 89           |

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

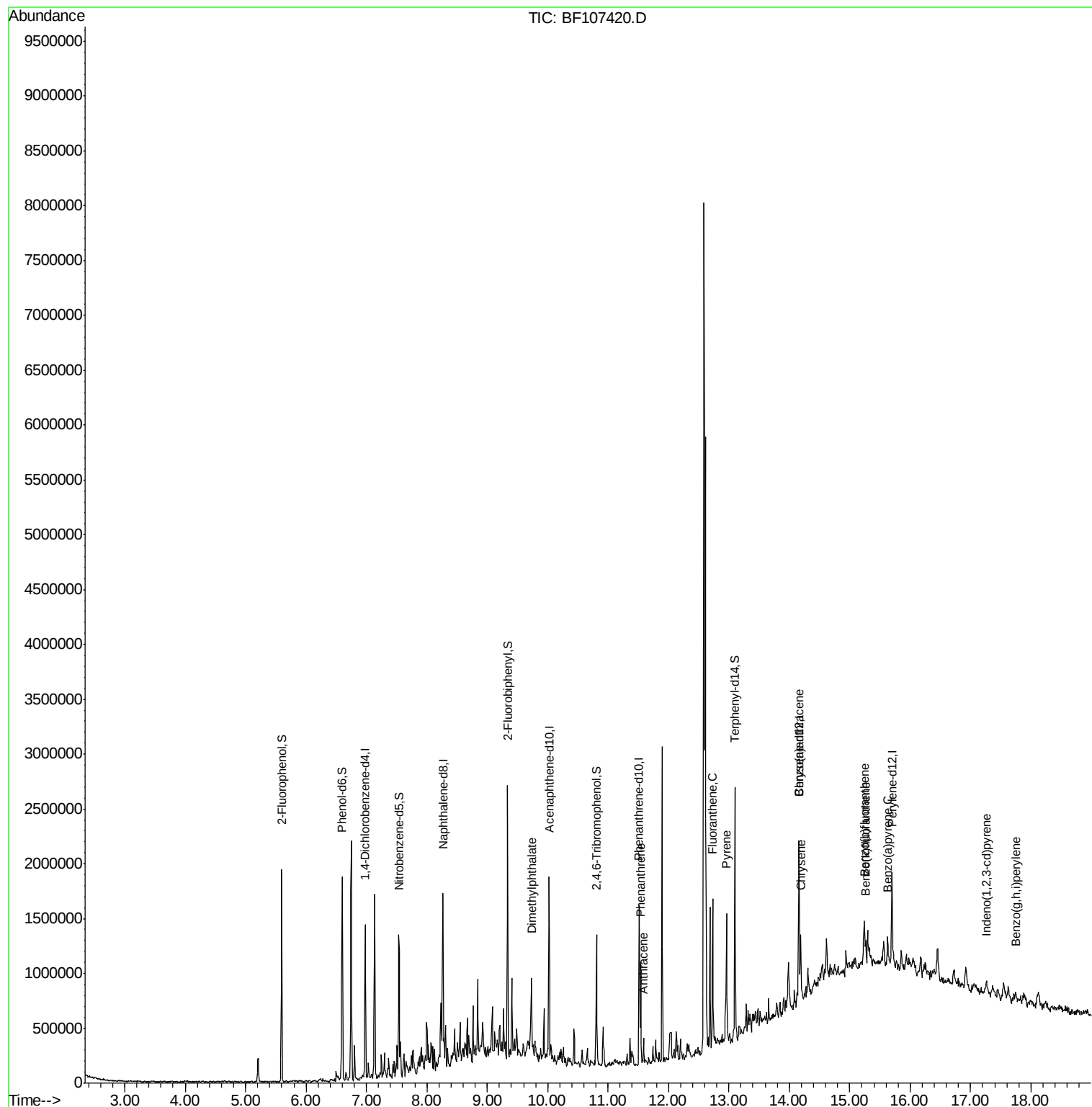
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

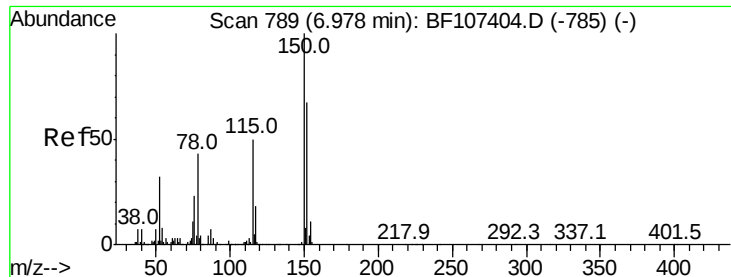
Instrument :  
BNA\_F  
ClientSampled :  
HR-05-071218-A

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Quant Time: Jul 17 02:30:01 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 16 17:24:26 2018  
Response via : Initial Calibration





#1

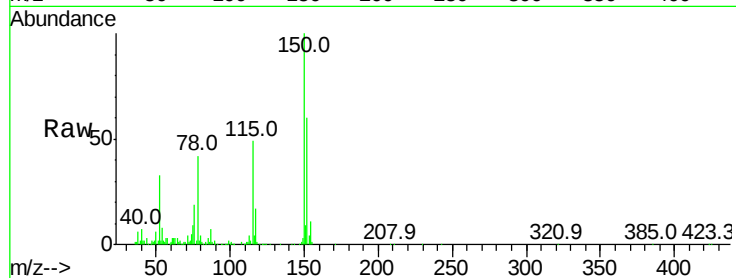
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.98 min Scan# 789  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 167.1 | 124.6 | 186.8 |
| 115     | 81.3  | 50.1  | 75.1  |

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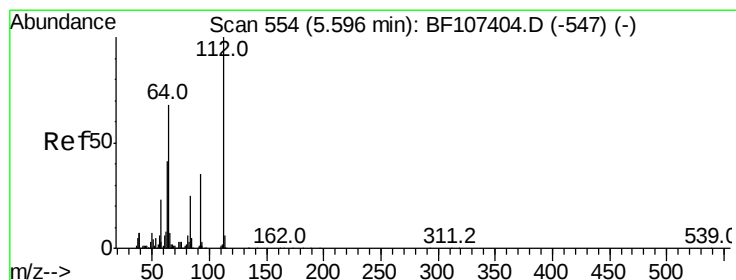
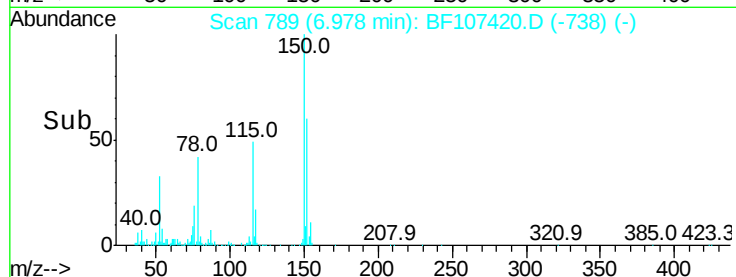
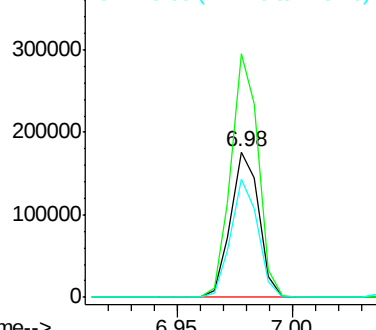


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

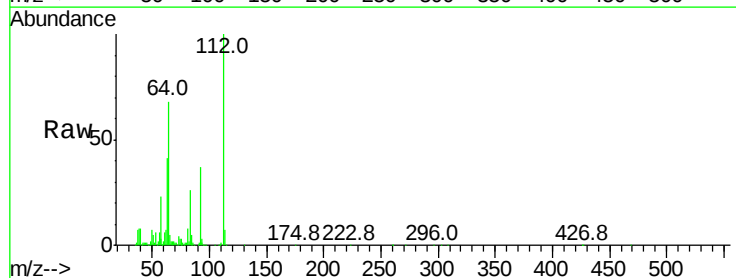
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 40.334 ng  
RT: 5.60 min Scan# 554  
Delta R.T. 0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.5  | 47.9  | 71.9  |
| 63      | 40.6  | 23.7  | 35.5  |

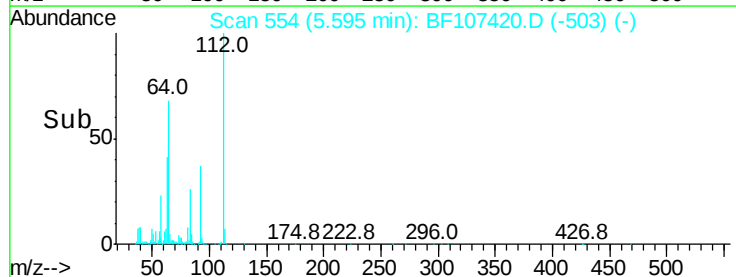
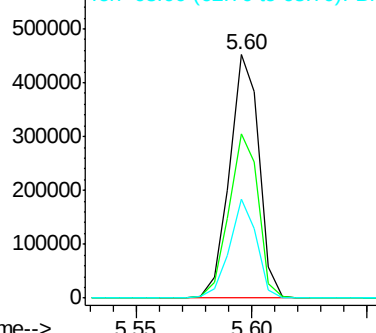


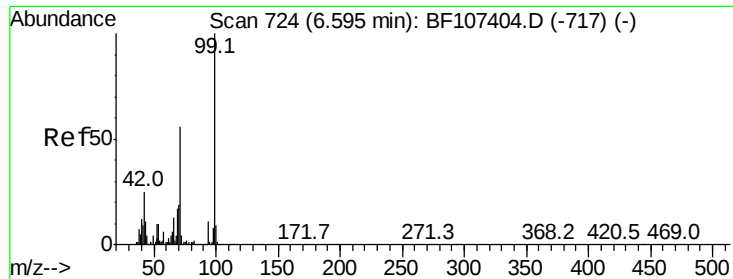
Abundance

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: 40.929 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.00 min

Lab File: BF107420.D

Acq: 16 Jul 2018 23:22

Instrument :

BNA\_F

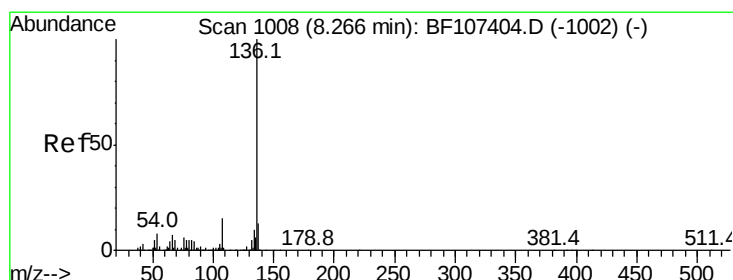
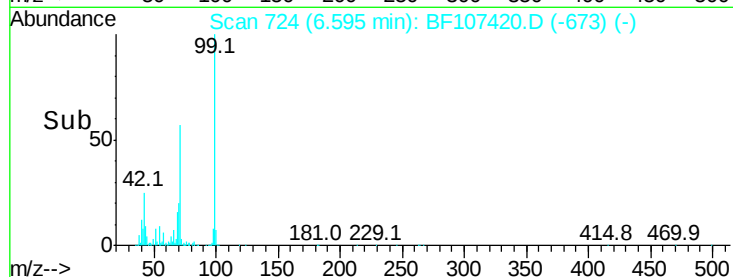
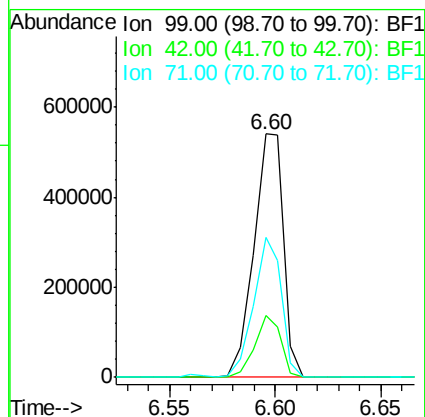
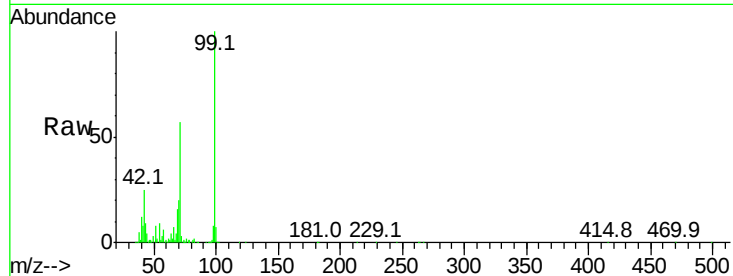
ClientSampleId :

HR-05-071218-A

| Tot Ion   | 99    | Resp  | 527592 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 25.2  | 14.5  | 21.7#  |
| 71        | 57.5  | 25.4  | 38.0#  |

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#21

Naphthalene-d8

Concen: 20.000 ng

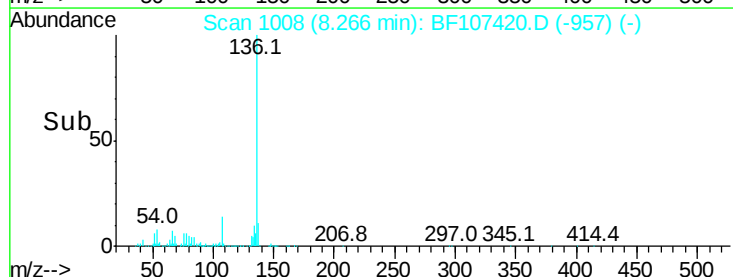
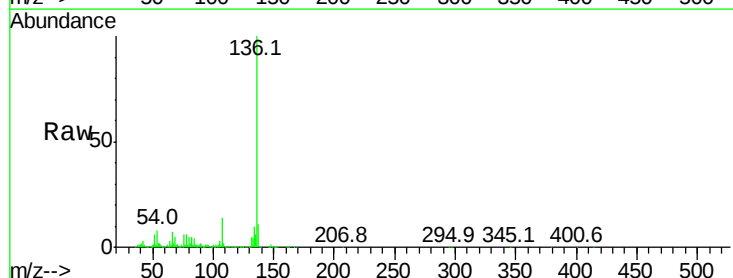
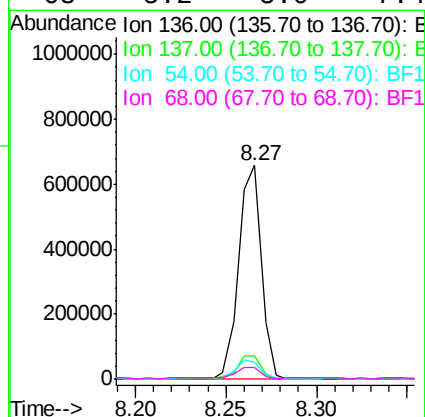
RT: 8.27 min Scan# 1008

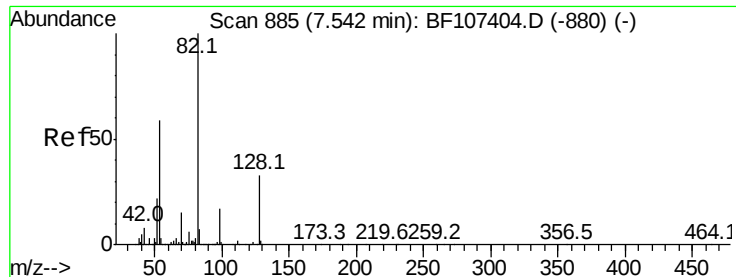
Delta R.T. -0.00 min

Lab File: BF107420.D

Acq: 16 Jul 2018 23:22

| Tgt Ion   | 136   | Resp  | 575348 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.5  | 8.9   | 13.3   |
| 54        | 8.0   | 6.6   | 9.8    |
| 68        | 5.2   | 5.0   | 7.4    |





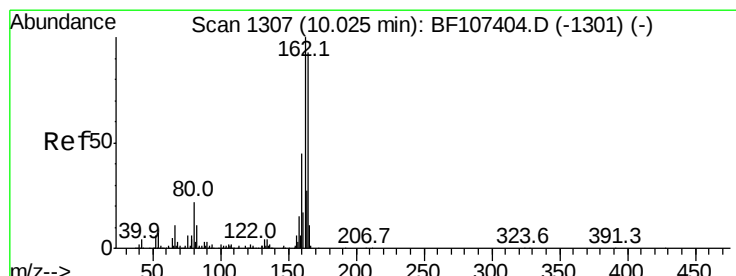
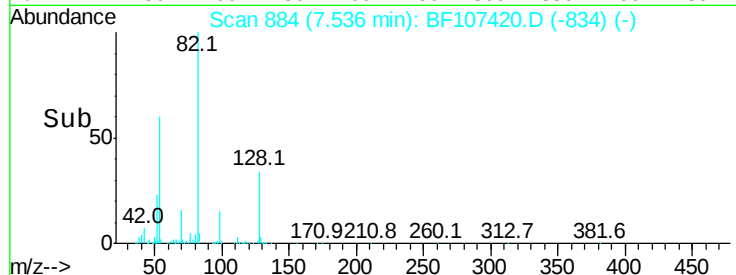
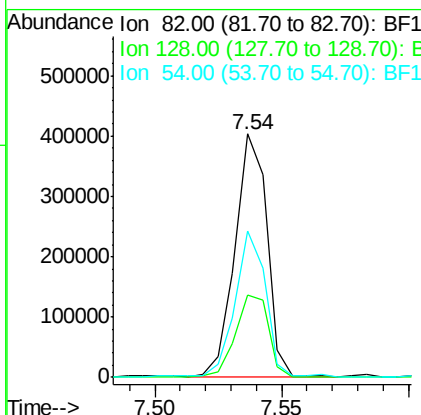
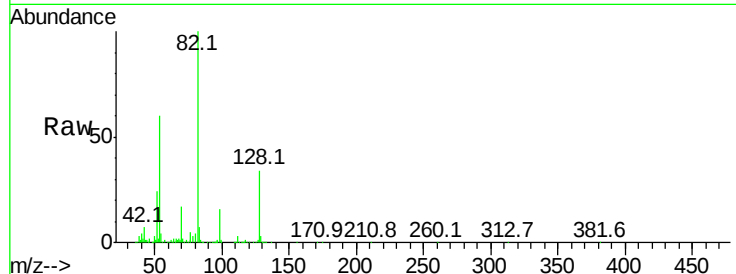
#23  
Nitrobenzene-d5  
Concen: 32.547 ng  
RT: 7.54 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 33.6  | 36.1  | 54.1# |
| 54      | 60.2  | 41.4  | 62.2  |

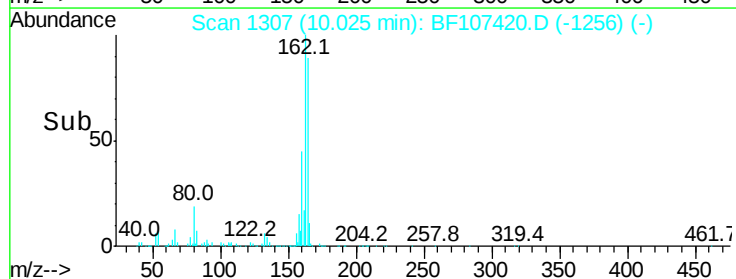
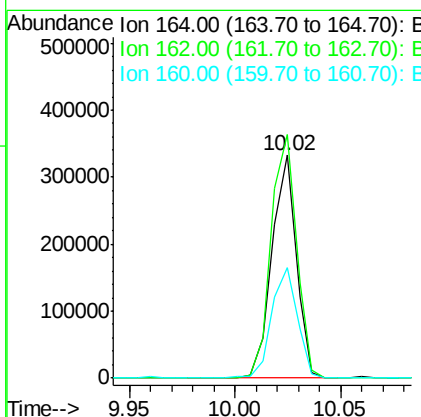
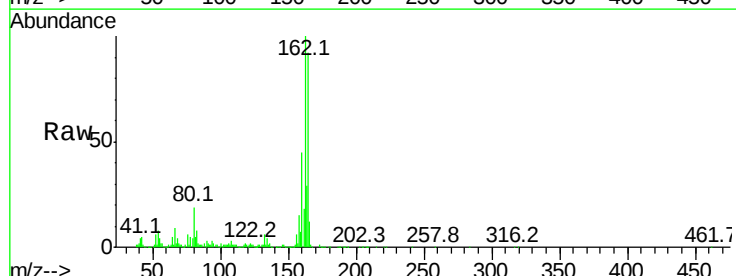
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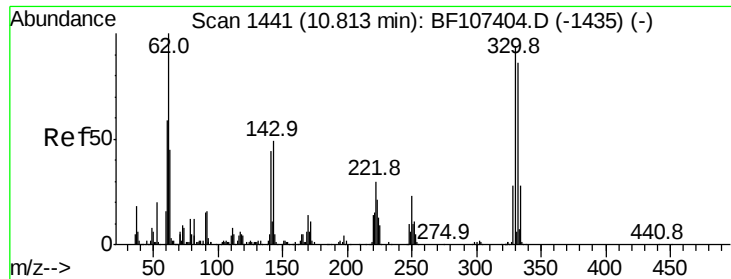
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.02 min Scan# 1307  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 109.2 | 86.1  | 129.1 |
| 160     | 49.4  | 38.3  | 57.5  |





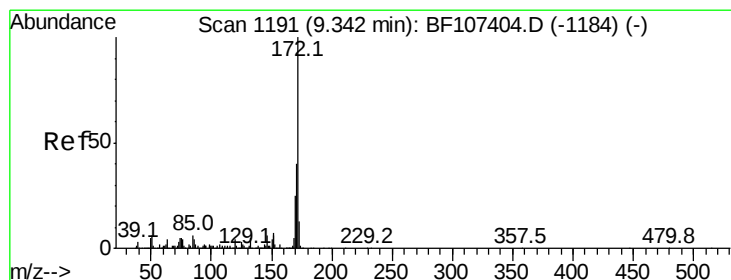
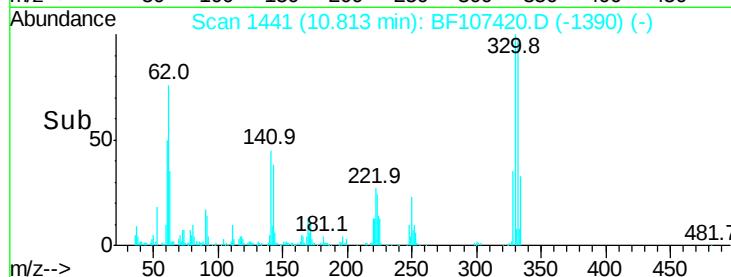
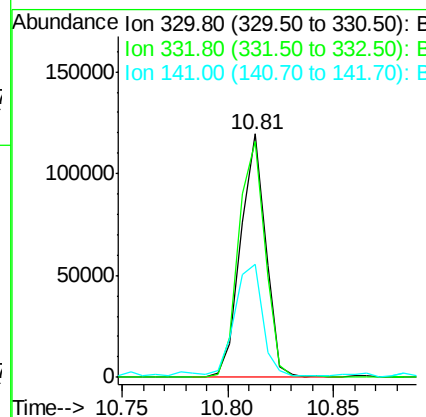
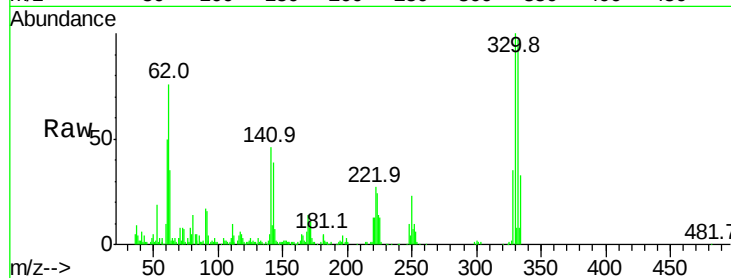
#41  
 2,4,6-Tribromophenol  
 Concen: 41.316 ng  
 RT: 10.81 min Scan# 1441  
 Delta R.T. -0.00 min  
 Lab File: BF107420.D  
 Acq: 16 Jul 2018 23:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-071218-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 102.6 | 77.0  | 115.6 |
| 141     | 51.8  | 29.9  | 44.9  |

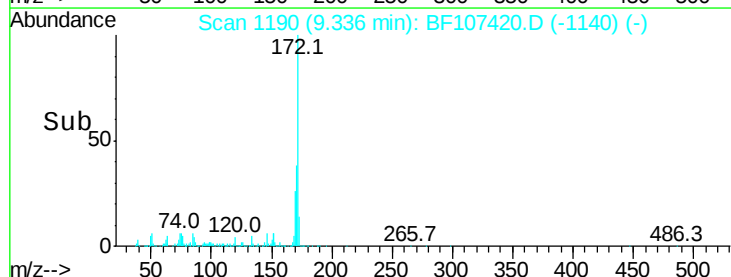
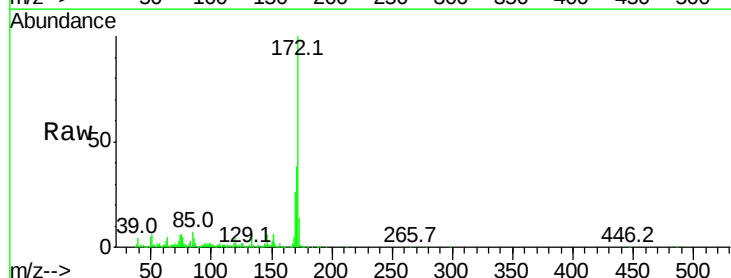
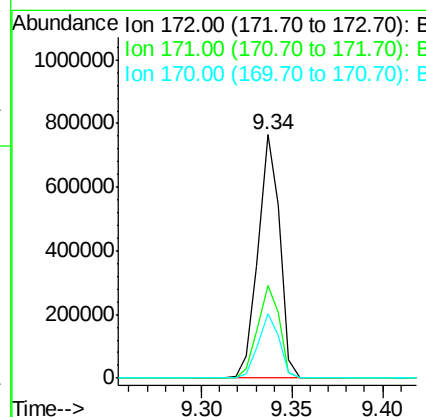
Manual Integrations  
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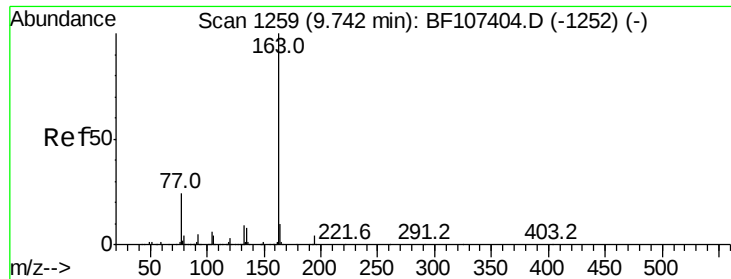
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#44  
 2-Fluorobiphenyl  
 Concen: 32.690 ng  
 RT: 9.34 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF107420.D  
 Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.9  | 29.7  | 44.5  |
| 170     | 26.3  | 19.6  | 29.4  |





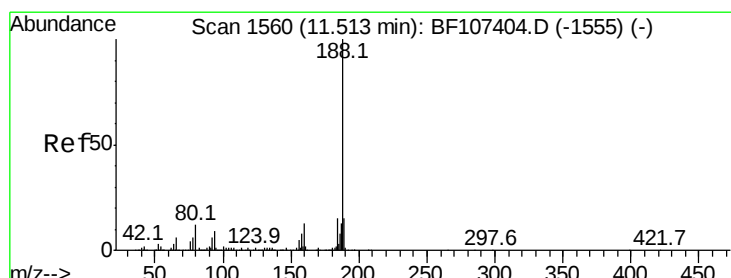
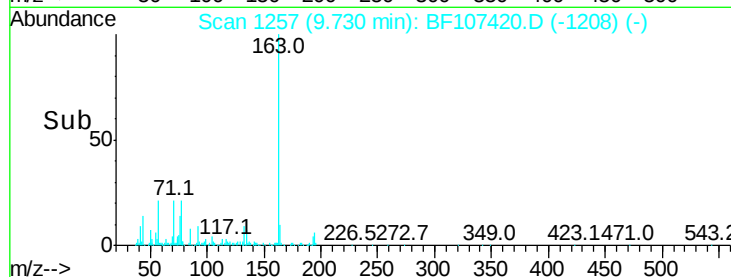
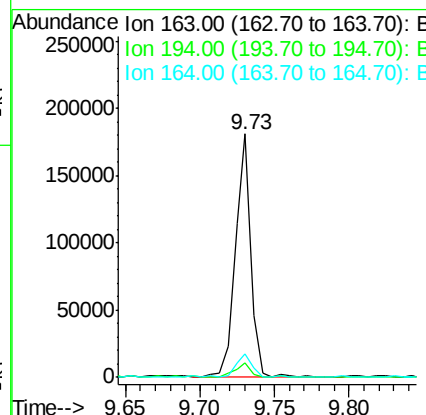
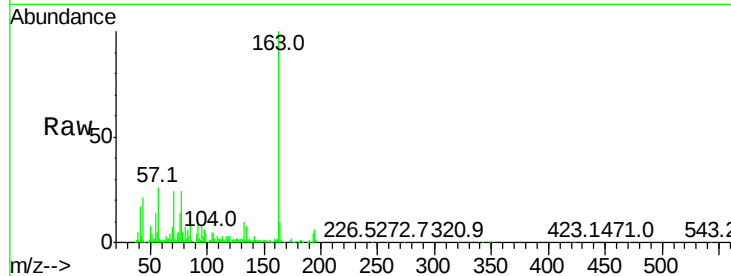
#49  
Dimethylphthalate  
Concen: 6.305 ng  
RT: 9.73 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 6.2   | 2.7  | 4.1   | #     |
| 164     | 9.7   | 8.2  | 12.2  |       |

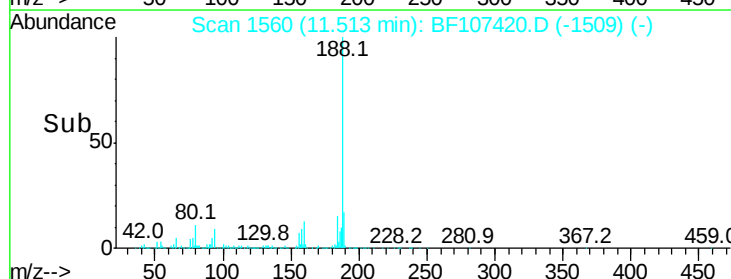
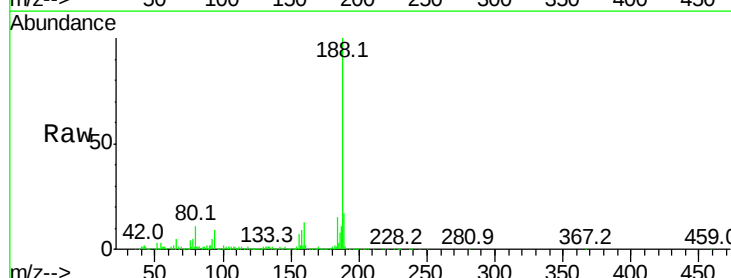
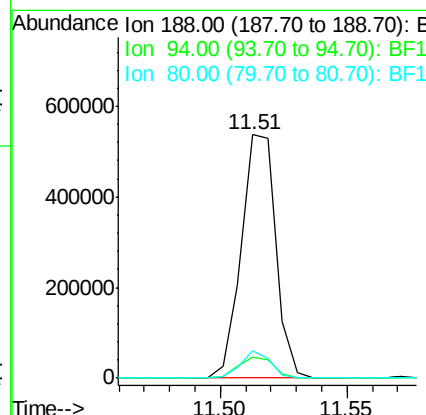
Manual Integrations  
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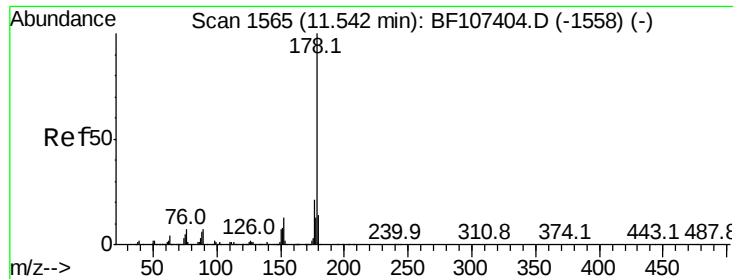
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7/17/2018 4:53:14 PM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 8.7   | 8.5  | 12.7  |       |
| 80      | 11.0  | 9.2  | 13.8  |       |





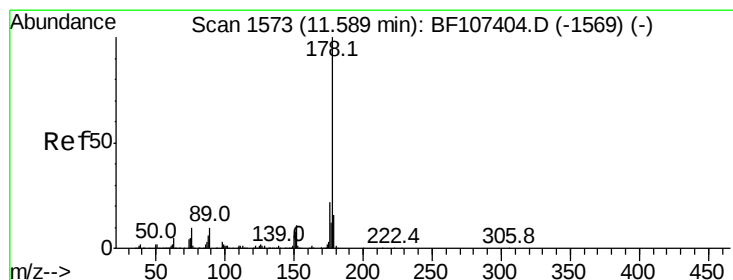
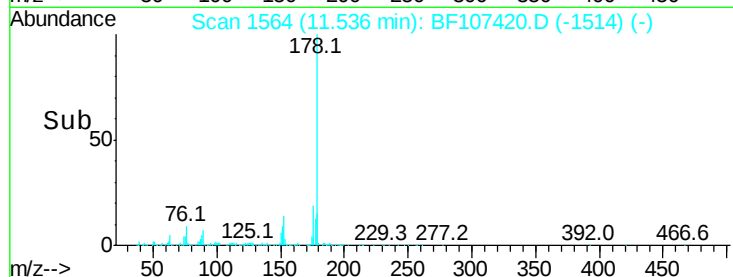
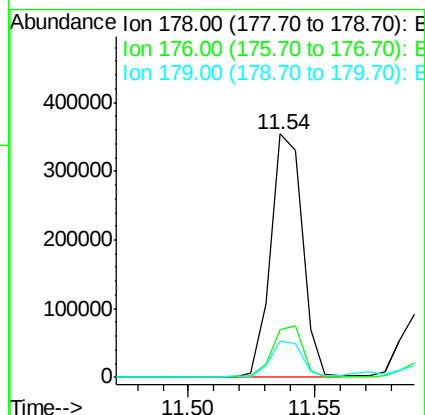
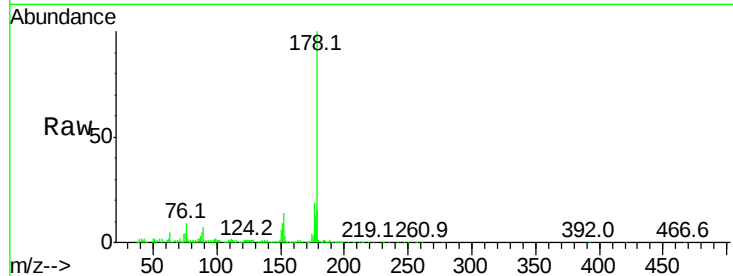
#70  
Phenanthrene  
Concen: 12.211 ng  
RT: 11.54 min Scan# 1564  
Delta R.T. -0.01 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

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

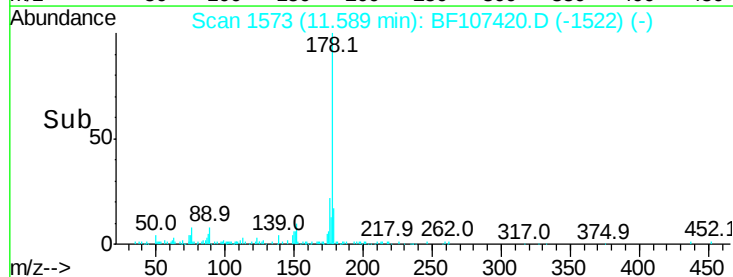
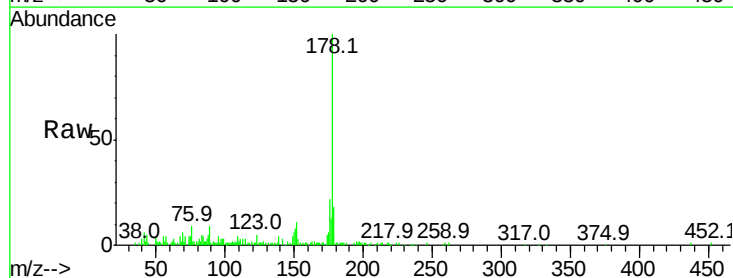
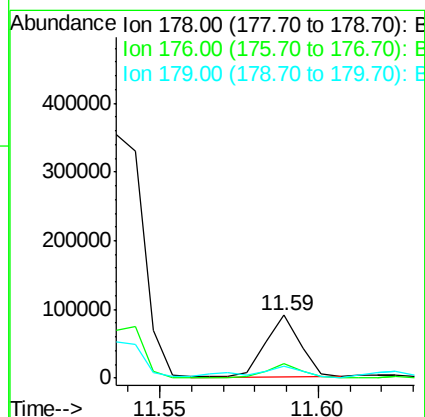
Manual Integrations  
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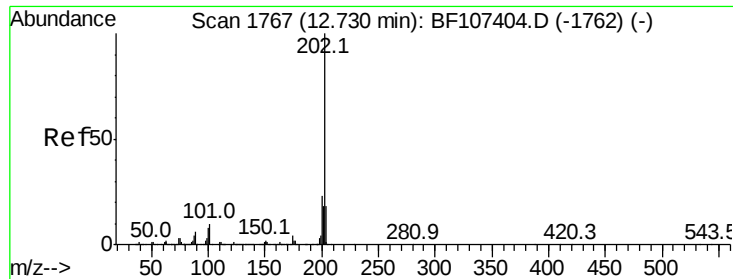
Sohil  
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#71  
Anthracene  
Concen: 2.767 ng  
RT: 11.59 min Scan# 1573  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 22.3  | 15.4  | 23.2  |
| 179     | 17.9  | 12.6  | 19.0  |





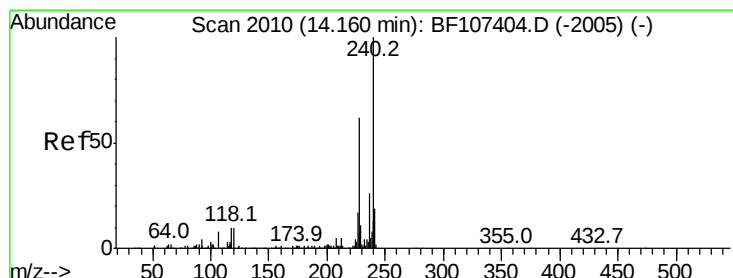
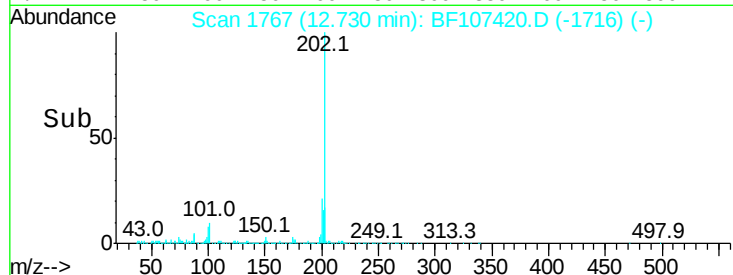
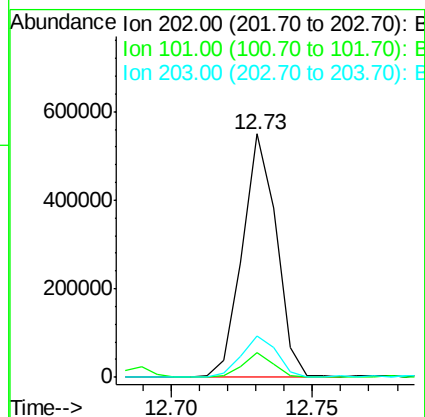
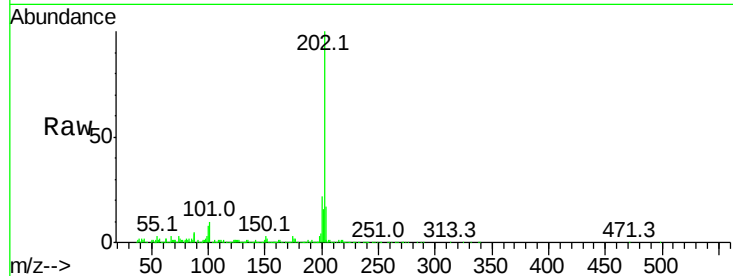
#74  
 Fluoranthene  
 Concen: 15.976 ng  
 RT: 12.73 min Scan# 1767  
 Delta R.T. -0.00 min  
 Lab File: BF107420.D  
 Acq: 16 Jul 2018 23:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-071218-A

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.0  | 0.0        | 34.1  |
| 203     | 17.2  | 0.0        | 38.1  |

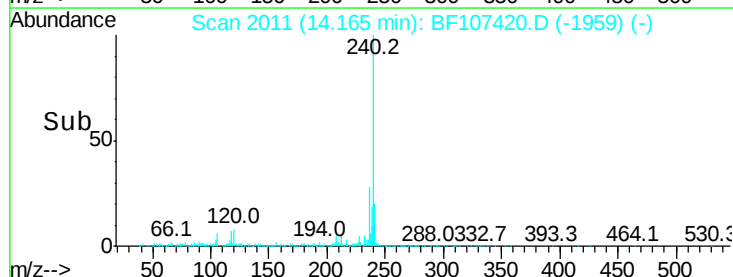
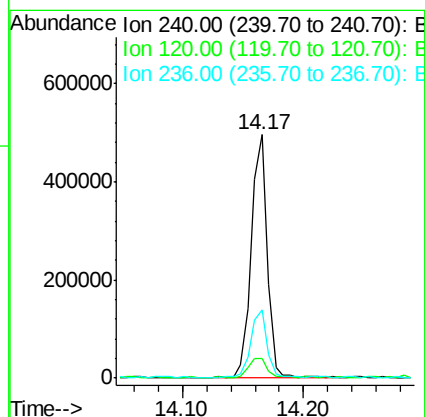
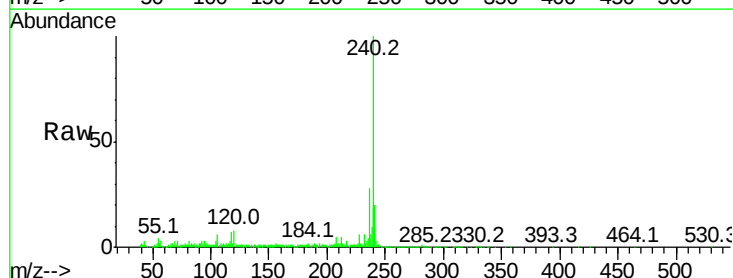
Manual Integrations  
 APPROVED

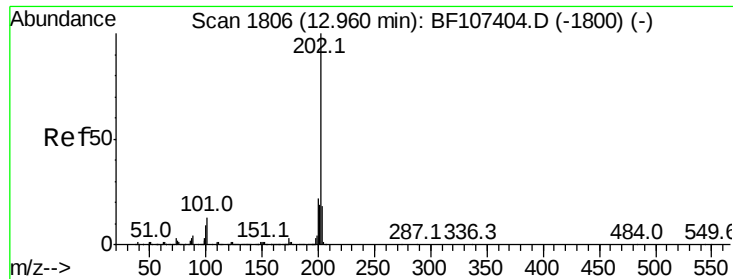
Sohil  
 7/17/2018 4:53:14 PM



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.17 min Scan# 2011  
 Delta R.T. 0.01 min  
 Lab File: BF107420.D  
 Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 8.1   | 9.5        | 14.3# |
| 236     | 28.1  | 20.7       | 31.1  |





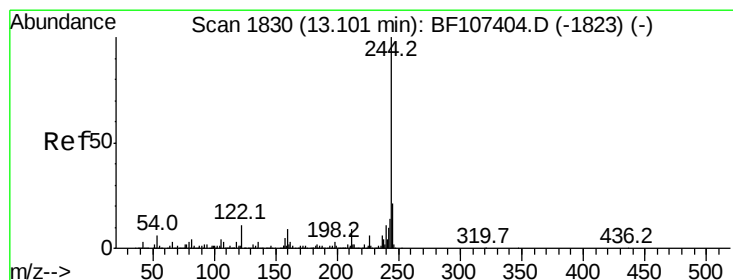
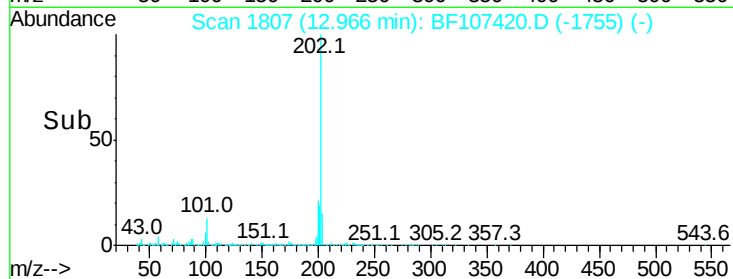
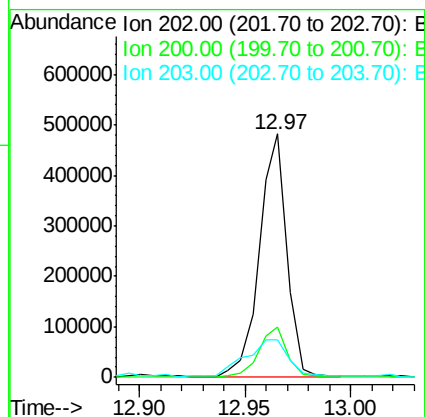
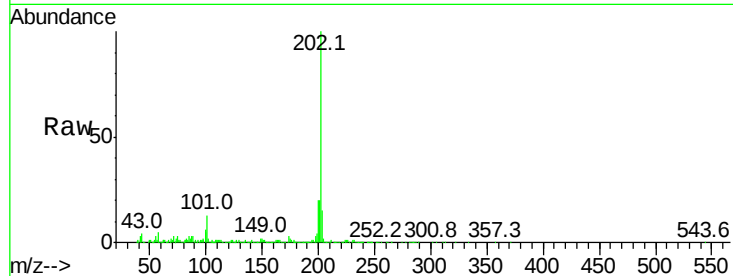
#77  
Pvrene  
Concen: 13.797 ng  
RT: 12.97 min Scan# 1807  
Delta R.T. 0.01 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.5  | 17.4       | 26.2  |
| 203     | 15.4  | 14.3       | 21.5  |

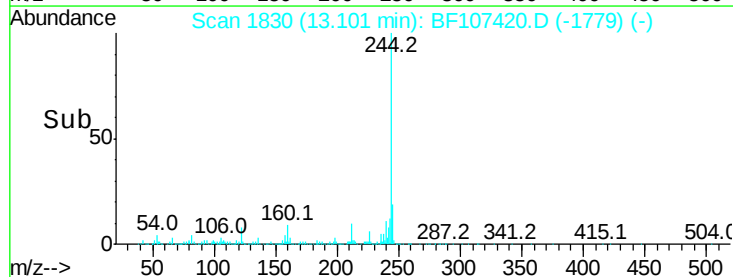
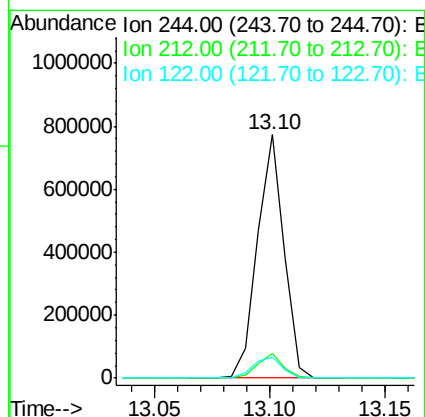
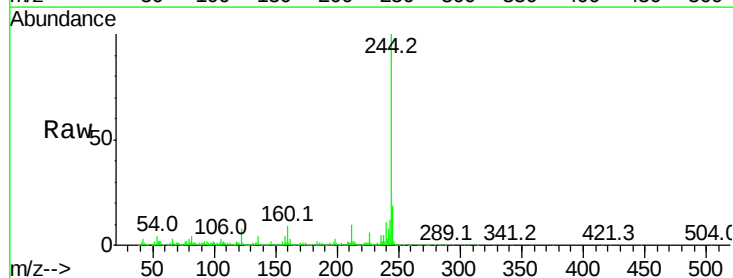
Manual Integrations  
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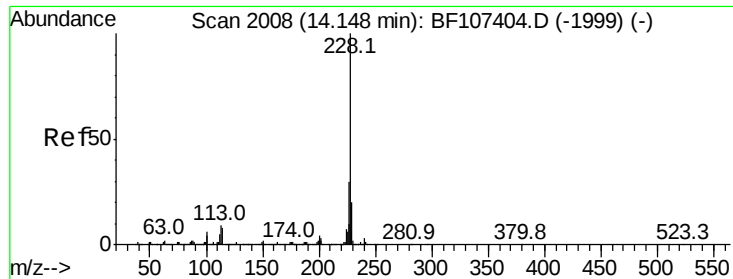
Sohil  
7/17/2018 4:53:14 PM



#78  
Terphenyl-d14  
Concen: 33.240 ng  
RT: 13.10 min Scan# 1830  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 10.1  | 5.4        | 8.0#  |
| 122     | 8.5   | 11.0       | 16.4# |





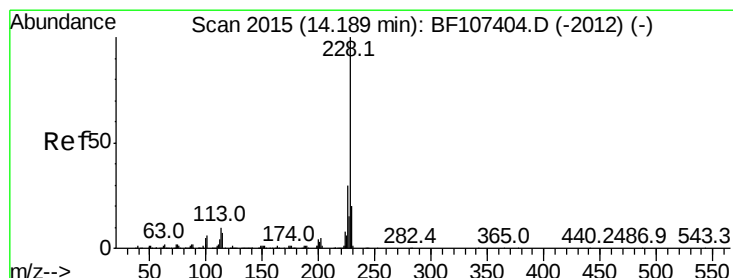
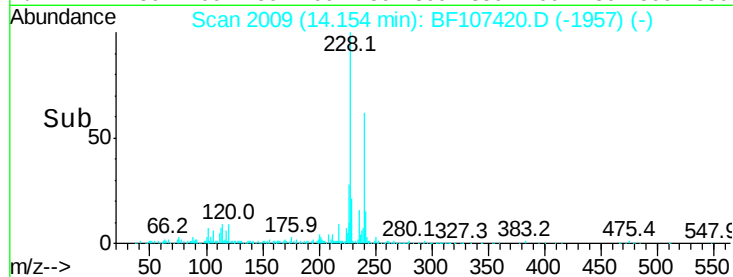
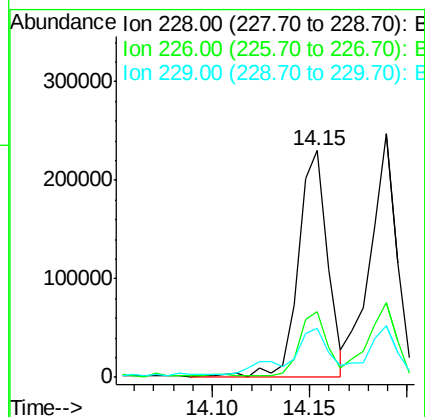
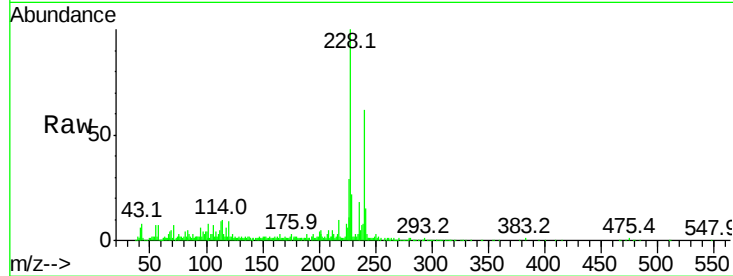
#80  
Benzo(a)anthracene  
Concen: 8.256 ng  
RT: 14.15 min Scan# 2009  
Delta R.T. 0.01 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 22.6  | 33.8  |
| 229     | 21.7  | 15.8  | 23.6  |

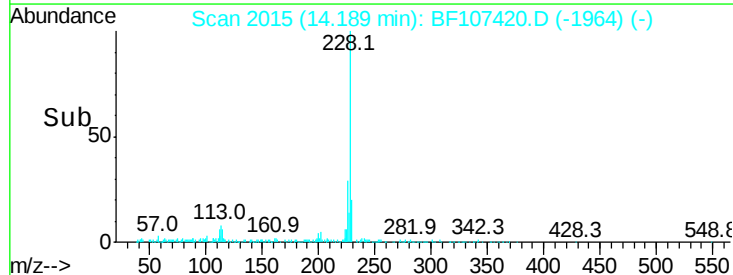
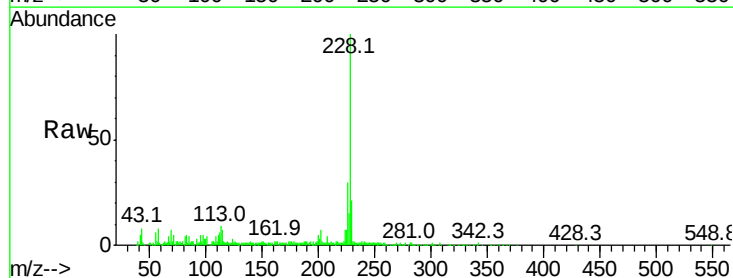
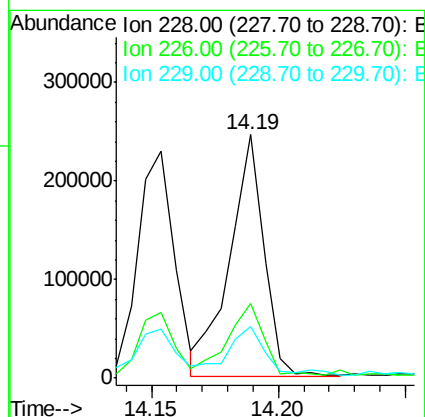
Manual Integrations  
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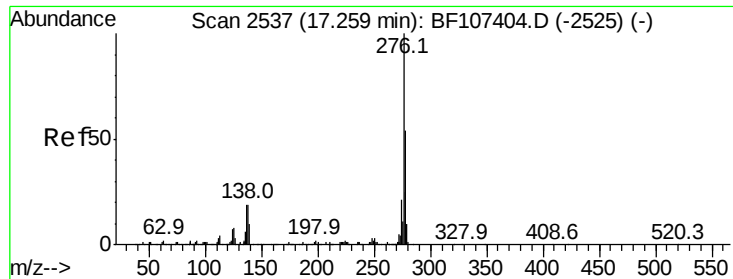
Sohil  
7/17/2018 4:53:14 PM



#82  
Chrysene  
Concen: 8.530 ng  
RT: 14.19 min Scan# 2015  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 25.0  | 37.6  |
| 229     | 21.1  | 16.2  | 24.4  |





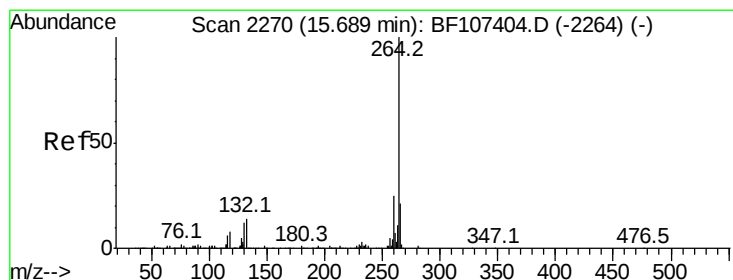
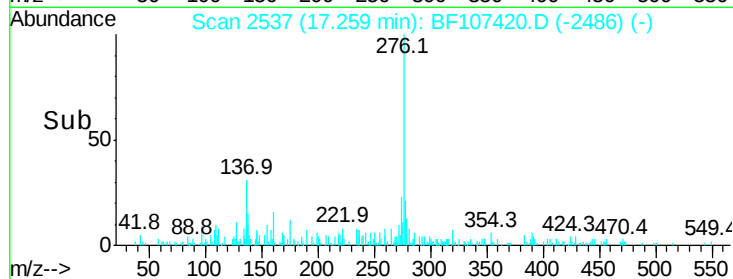
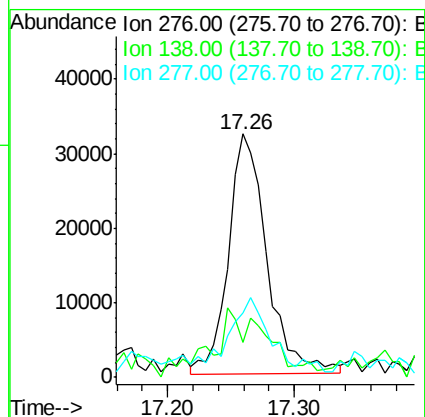
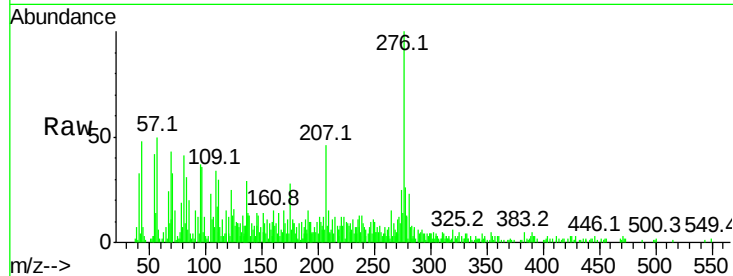
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.497 ng  
RT: 17.26 min Scan# 2537  
Delta R.T. -0.00 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.1  | 25.0  | 37.6# |
| 277     | 26.2  | 20.1  | 30.1  |

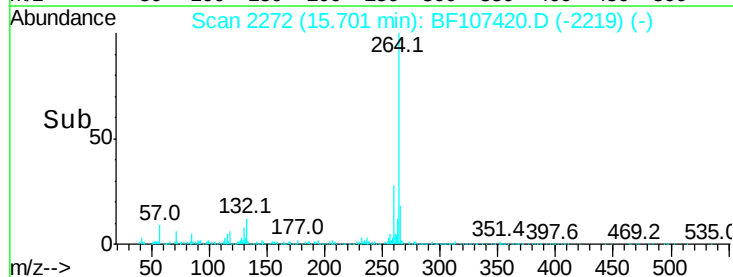
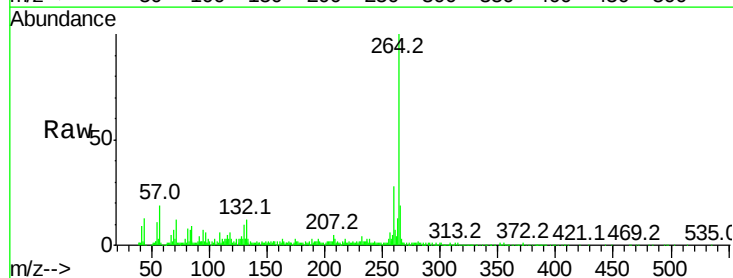
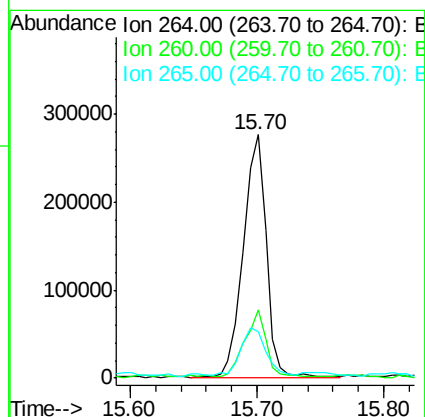
Manual Integrations  
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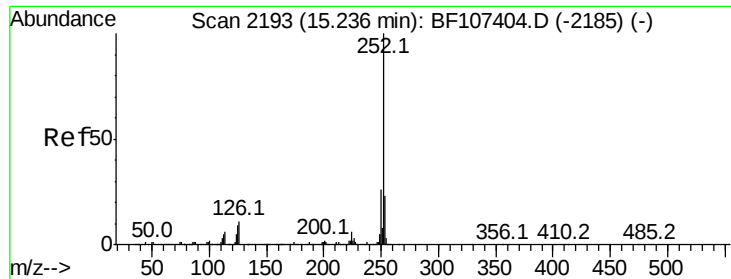
Sohil  
7/17/2018 4:53:14 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.70 min Scan# 2272  
Delta R.T. 0.01 min  
Lab File: BF107420.D  
Acq: 16 Jul 2018 23:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 28.3  | 19.2  | 28.8  |
| 265     | 19.3  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 11.116 ng m

RT: 15.24 min Scan# 2194

Delta R.T. 0.01 min

Lab File: BF107420.D

Acq: 16 Jul 2018 23:22

Instrument :

BNA\_F

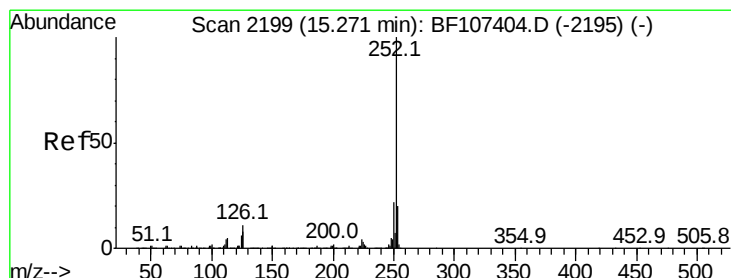
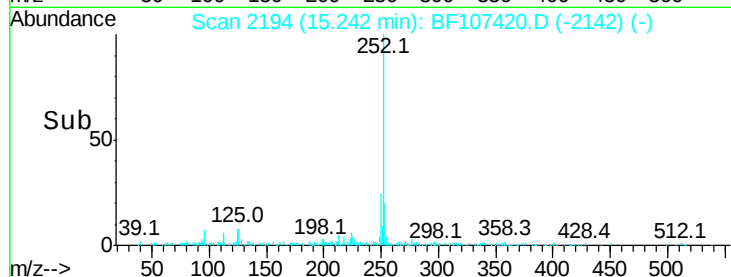
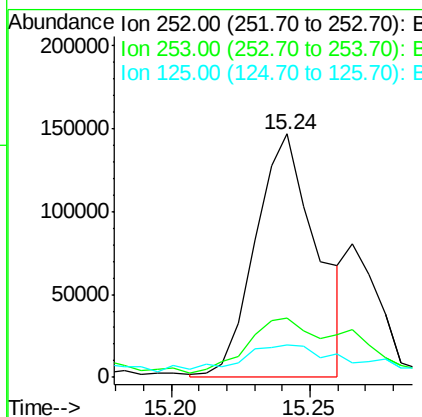
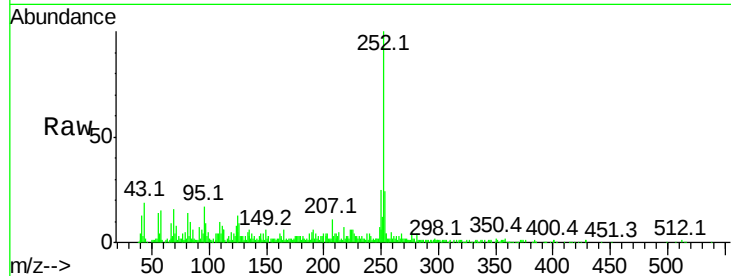
ClientSampleId :

HR-05-071218-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 226492 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 17.0  | 25.6   |
| 125       | 13.2  | 9.0   | 13.6   |

Manual Integrations  
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7/17/2018 4:53:14 PM



#88

Benzo(k)fluoranthene

Concen: 3.685 ng m

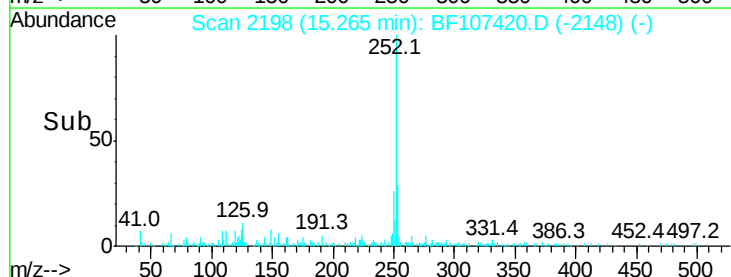
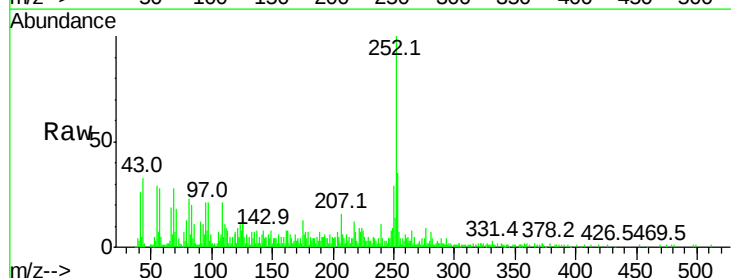
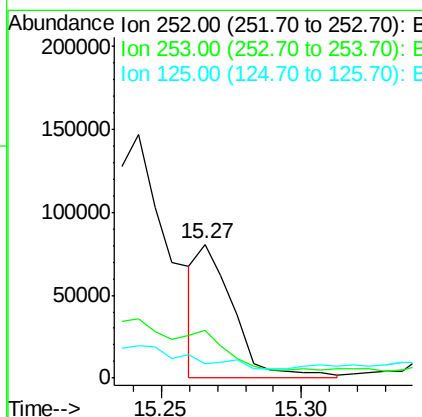
RT: 15.27 min Scan# 2198

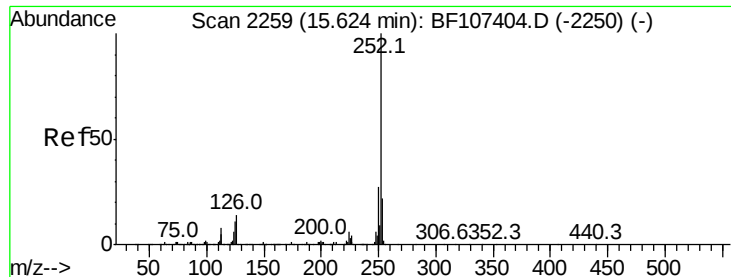
Delta R.T. -0.01 min

Lab File: BF107420.D

Acq: 16 Jul 2018 23:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 73265 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 35.3  | 17.9  | 26.9# |
| 125       | 11.1  | 10.2  | 15.2  |





#89

Benzo(a)pyrene

Concen: 8.006 ng

RT: 15.63 min Scan# 2260

Delta R.T. 0.01 min

Lab File: BF107420.D

Acq: 16 Jul 2018 23:22

Instrument :

BNA\_F

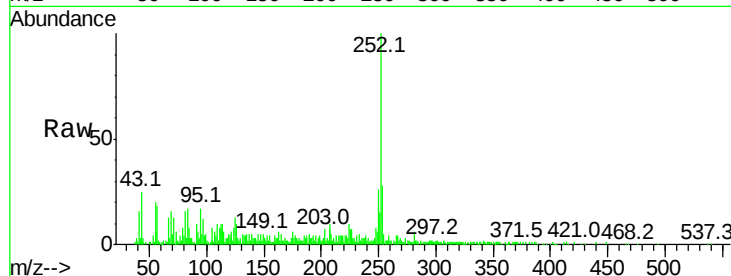
ClientSampleId :

HR-05-071218-A

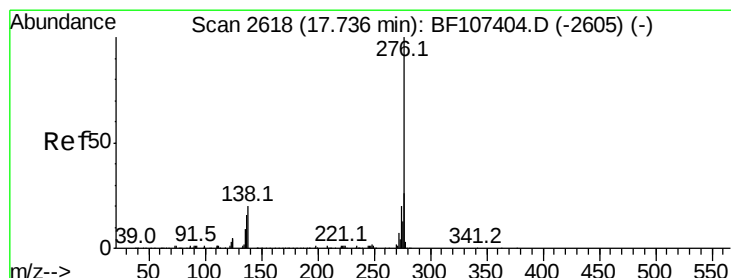
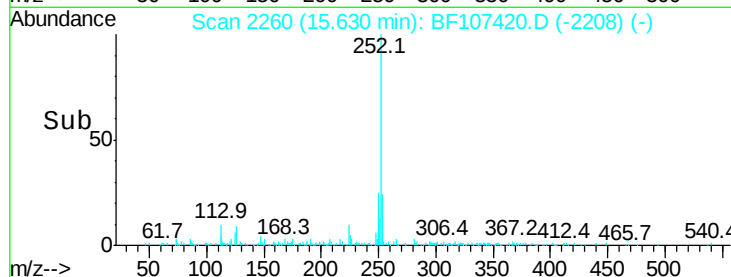
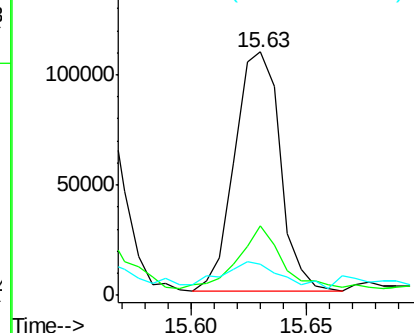
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 149712 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 28.4  | 17.1  | 25.7#  |
| 125       | 12.8  | 9.8   | 14.6   |

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7/17/2018 4:53:14 PM



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



#91

Benzo(g,h,i)perylene

Concen: 4.181 ng

RT: 17.74 min Scan# 2619

Delta R.T. 0.01 min

Lab File: BF107420.D

Acq: 16 Jul 2018 23:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 59962 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.3  | 17.9  | 26.9  |
| 138       | 19.9  | 21.8  | 32.8# |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

