

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070617\  
 Data File : BF096541.D  
 Acq On : 6 Jul 2017 18:54  
 Operator : SJ/MA  
 Sample : I3999-03  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS3-1-4-COMP

Manual Integrations  
 APPROVED

mohammad  
 7/10/2017 11:44:52 AM

Quant Time: Jul 07 09:12:21 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 05 13:27:10 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 114944   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.00  | 136  | 471611   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.75  | 164  | 176210   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.23 | 188  | 240181   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.86 | 240  | 238960   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.28 | 264  | 184042   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 696098   | 89.38  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 834126   | 87.12  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 475862   | 60.63  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.53 | 330  | 113408   | 82.39  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 704191   | 68.33  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.82 | 244  | 463522   | 41.45  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.36  | 94   | 22408    | 2.054  | ng    | 95       |
| 49) Dimethylphthalate       | 9.47  | 163  | 193740   | 14.728 | ng    | 99       |
| 70) Phenanthrene            | 11.25 | 178  | 38641    | 2.976  | ng    | 98       |
| 74) Fluoranthene            | 12.44 | 202  | 57507    | 4.518  | ng    | 99       |
| 77) Pyrene                  | 12.67 | 202  | 53822    | 2.806  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.85 | 228  | 28919    | 2.090  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.87 | 252  | 28581m   | 2.478  | ng    |          |

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

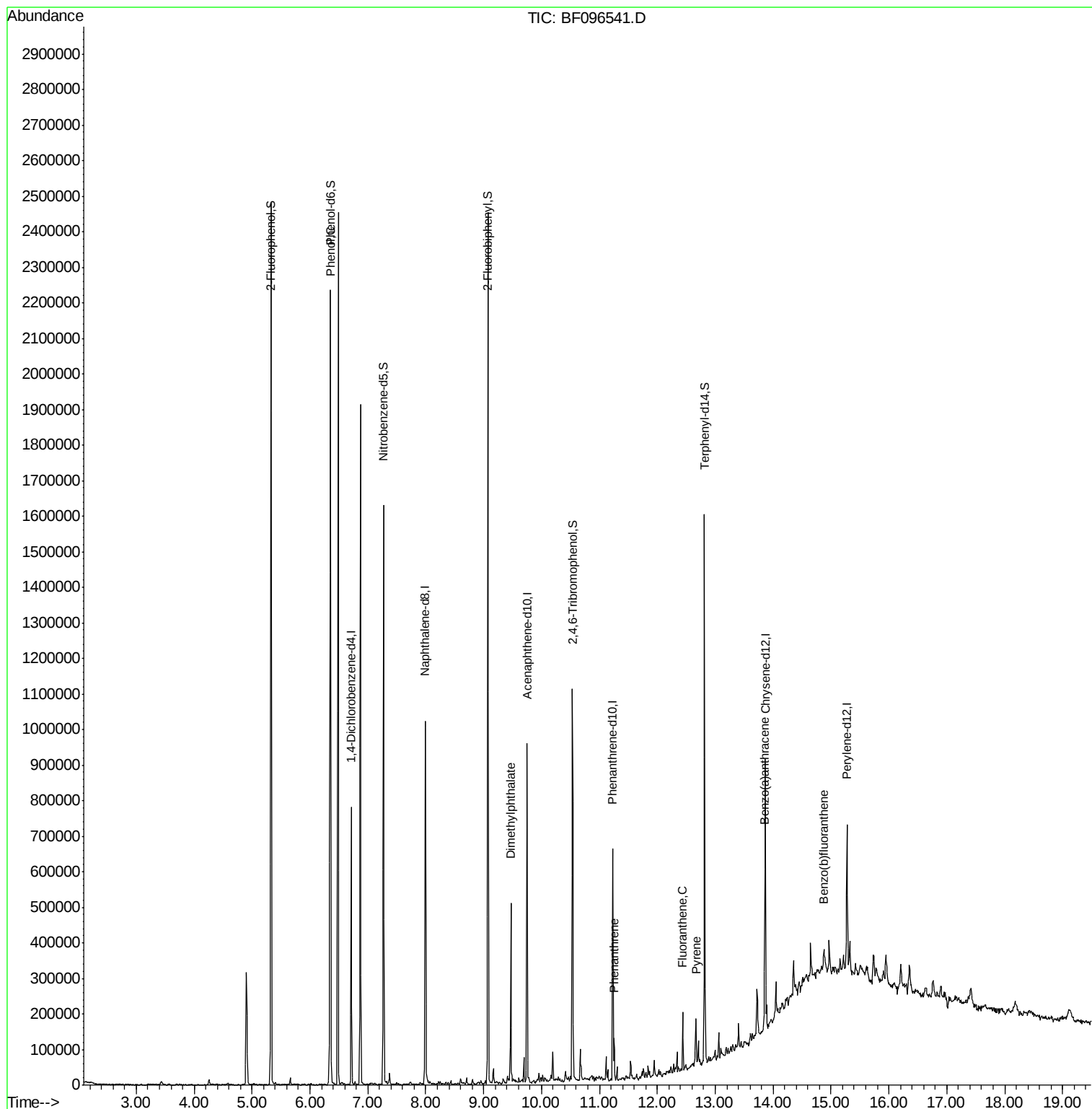
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070617\  
Data File : BF096541.D  
Acq On : 6 Jul 2017 18:54  
Operator : SJ/MA  
Sample : I3999-03  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

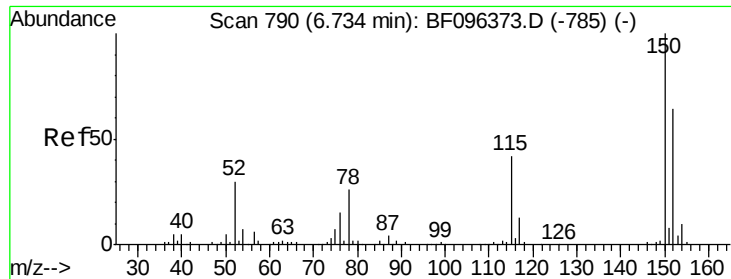
Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP

Manual Integrations  
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7/10/2017 11:44:52 AM

Quant Time: Jul 07 09:12:21 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 05 13:27:10 2017  
Response via : Initial Calibration





#1

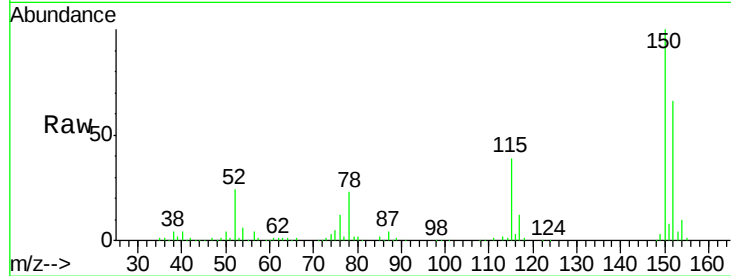
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 787  
Delta R.T. -0.00 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP

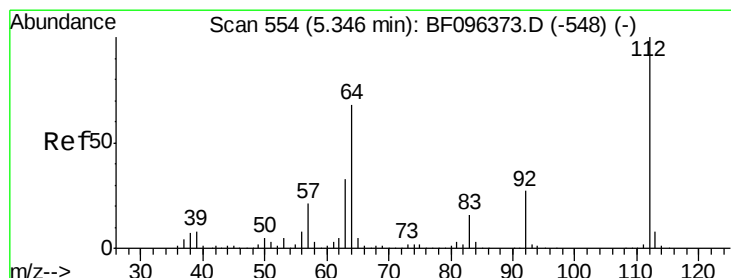
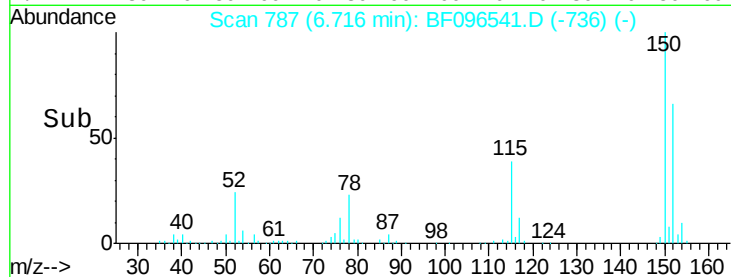
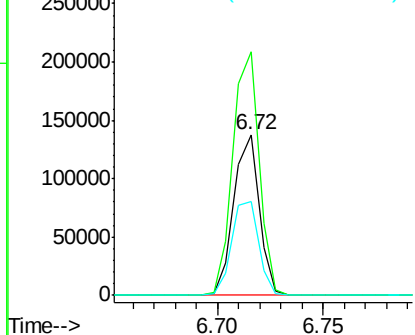
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.4 | 126.2 | 189.2 |
| 115     | 58.6  | 52.2  | 78.2  |

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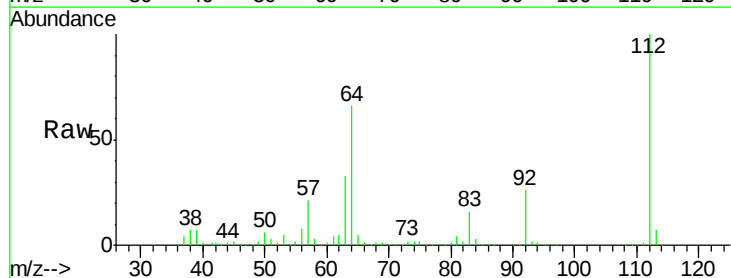
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



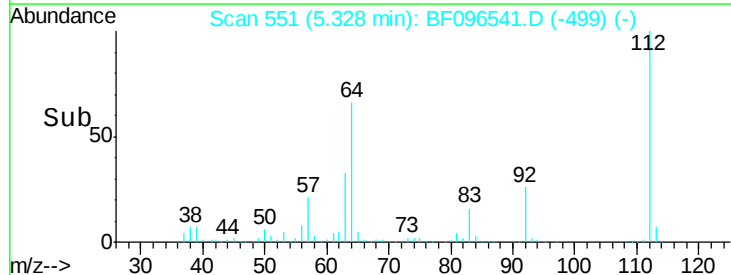
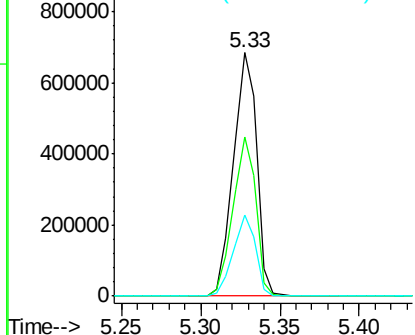
#5

2-Fluorophenol  
Concen: 89.384 ng  
RT: 5.33 min Scan# 551  
Delta R.T. 0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.5  | 46.0  | 69.0  |
| 63      | 33.3  | 23.4  | 35.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 87.125 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF096541.D

Acq: 6 Jul 2017 18:54

Instrument :

BNA\_F

ClientSampleId :

SS3-1-4-COMP

Tgt Ion: 99 Resp: 834126

Ion Ratio Lower Upper

99 100

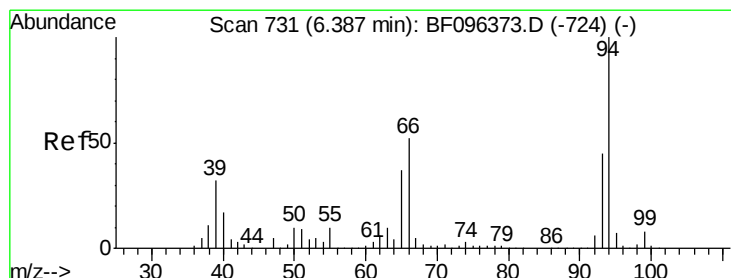
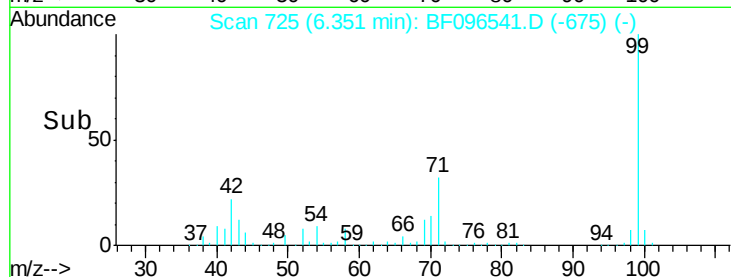
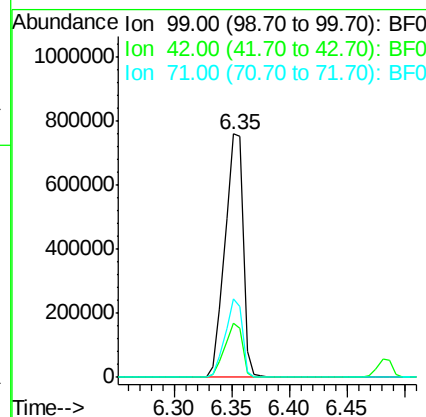
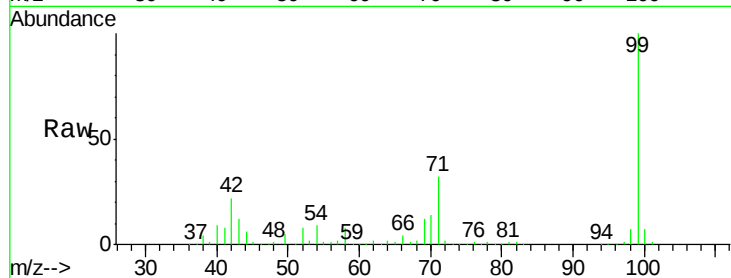
42 22.5 13.5 20.3#

71 32.0 24.5 36.7

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#10

Phenol

Concen: 2.054 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF096541.D

Acq: 6 Jul 2017 18:54

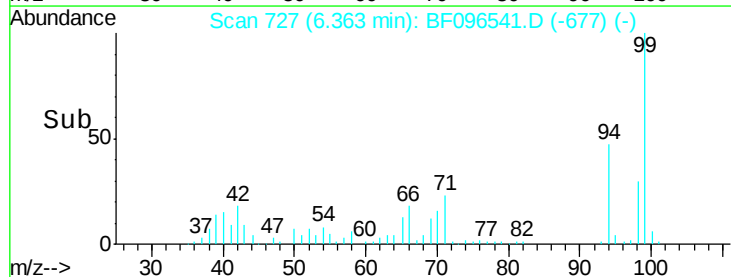
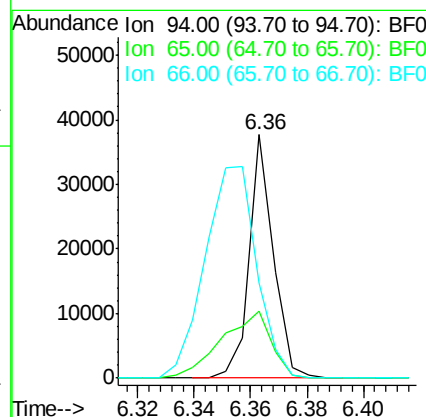
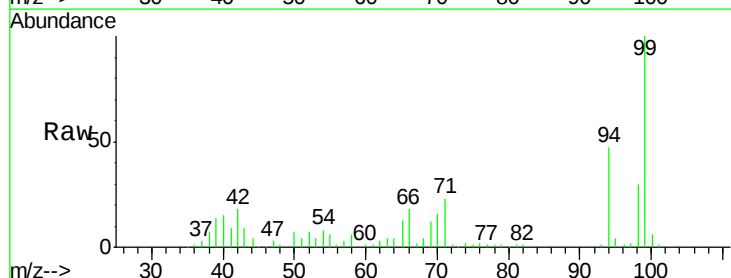
Tgt Ion: 94 Resp: 22408

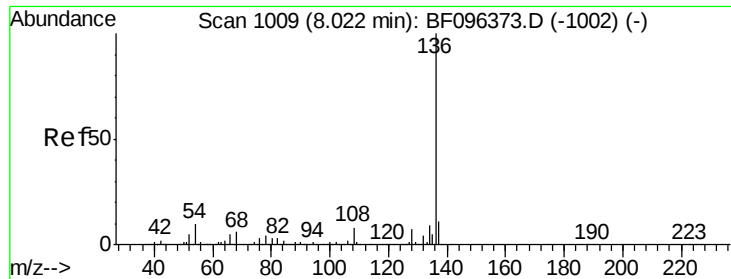
Ion Ratio Lower Upper

94 100

65 27.8 9.9 49.9

66 39.1 23.1 63.1





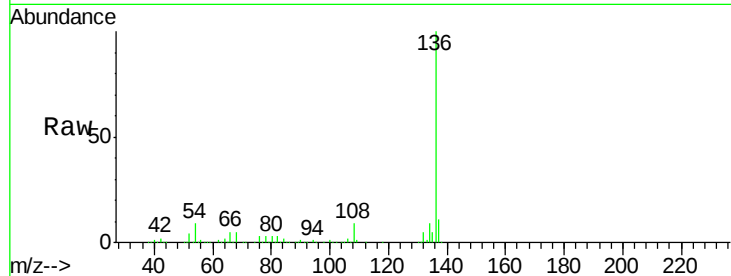
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.00 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP

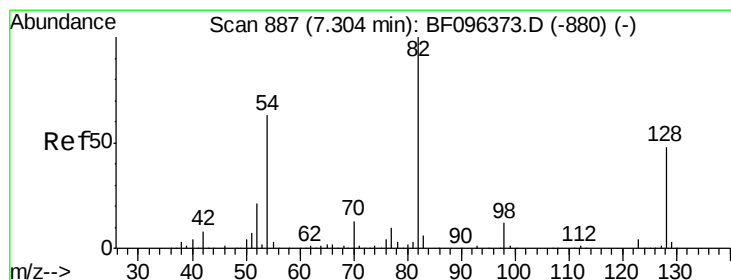
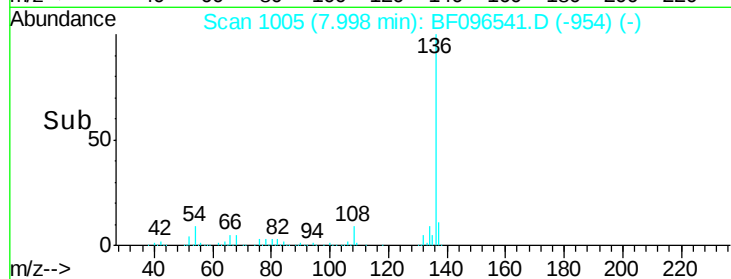
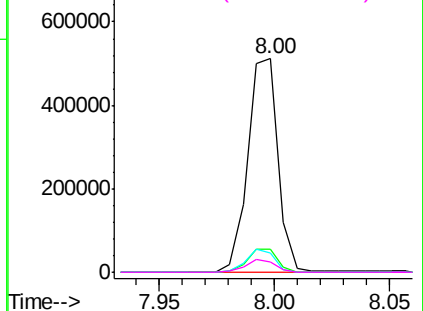
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 471611 |       |       |
| 137     | 10.5  | 8.5    | 12.7  |       |
| 54      | 8.9   | 4.9    | 7.3#  |       |
| 68      | 5.1   | 4.1    | 6.1   |       |

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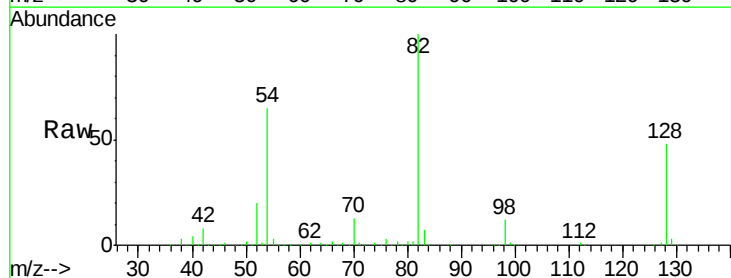


Abundance Ion 136.00 (135.70 to 136.70): E  
800000  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

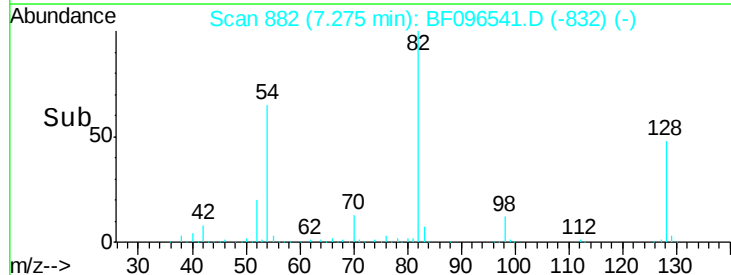
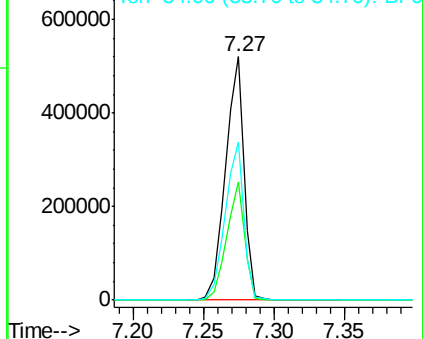


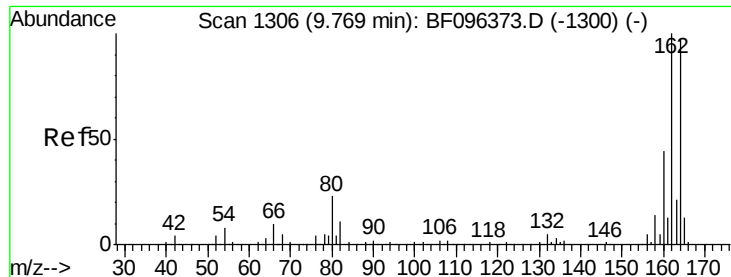
#23  
Nitrobenzene-d5  
Concen: 60.632 ng  
RT: 7.27 min Scan# 882  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 475862 |       |       |
| 128     | 48.4  | 34.0   | 51.0  |       |
| 54      | 64.8  | 42.2   | 63.2# |       |



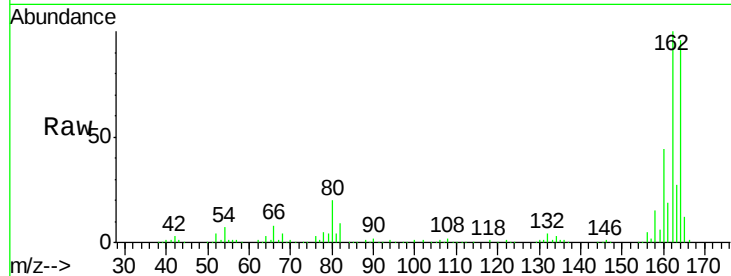
Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. -0.00 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

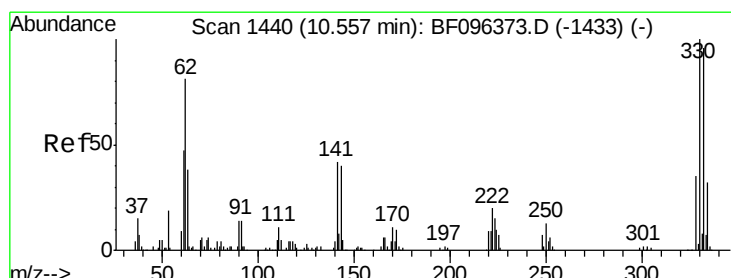
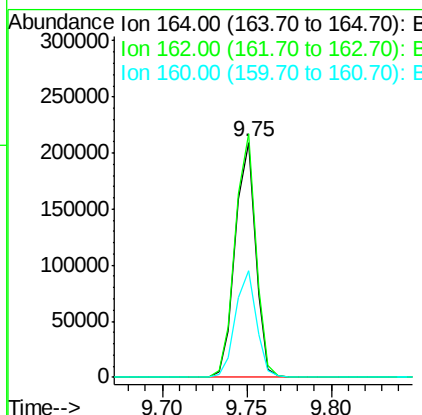
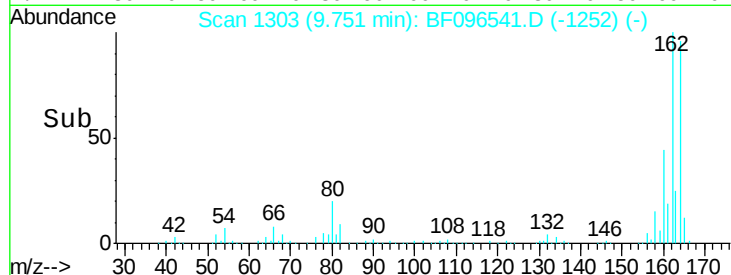
Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 176210 |       |       |
| 162     | 103.7 | 82.6   | 123.8 |       |
| 160     | 45.5  | 36.2   | 54.2  |       |

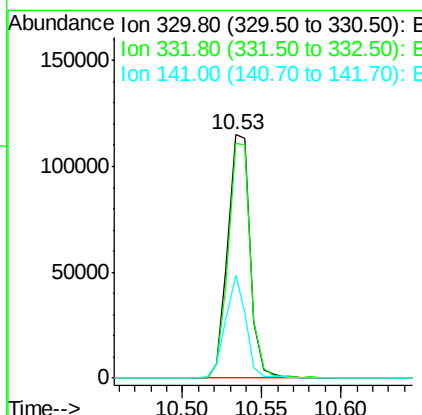
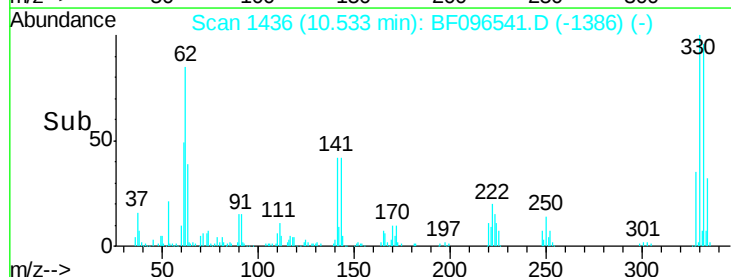
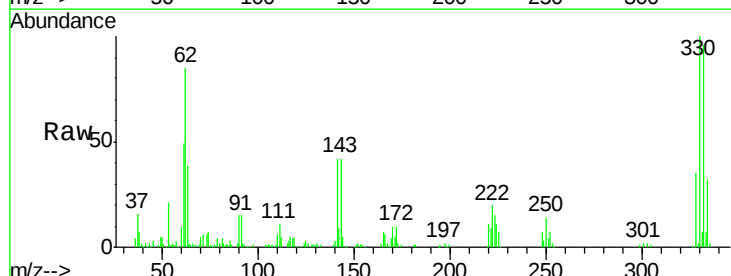
Manual Integrations  
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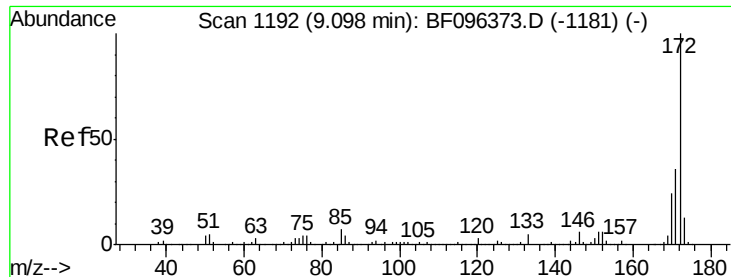
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#41  
2,4,6-Tribromophenol  
Concen: 82.394 ng  
RT: 10.53 min Scan# 1436  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 113408 |       |       |
| 332     | 95.3  | 76.6   | 115.0 |       |
| 141     | 38.7  | 31.4   | 47.2  |       |





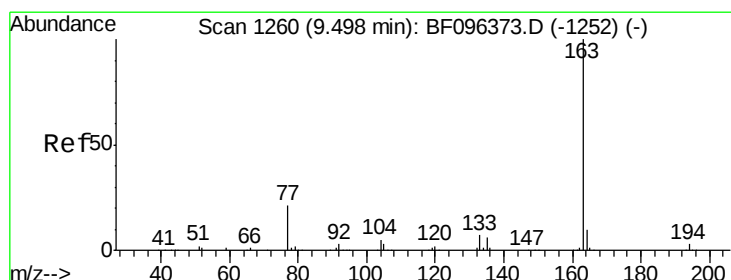
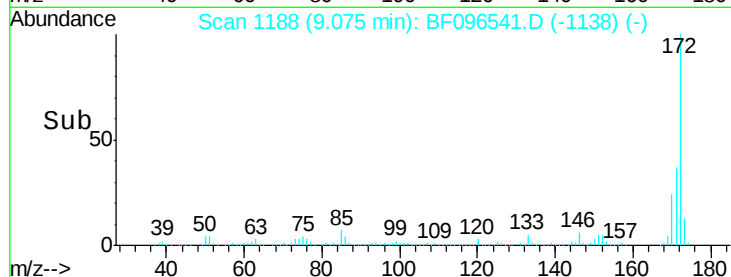
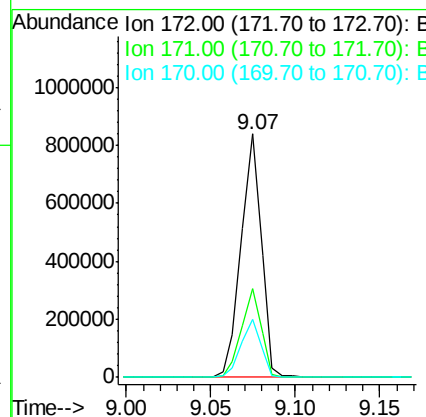
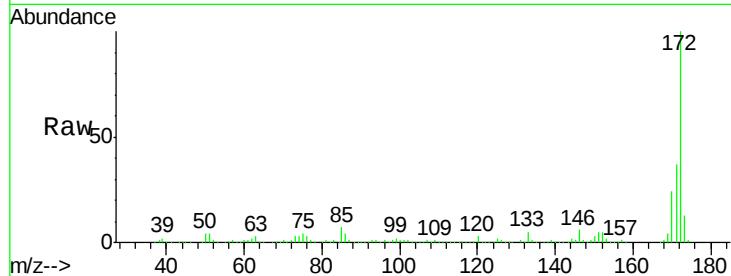
#44  
2-Fluorobiphenyl  
Concen: 68.328 ng  
RT: 9.07 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 172     | 100   |            |            |
| 171     | 36.6  | 29.6       | 44.4       |
| 170     | 23.6  | 19.8       | 29.8       |

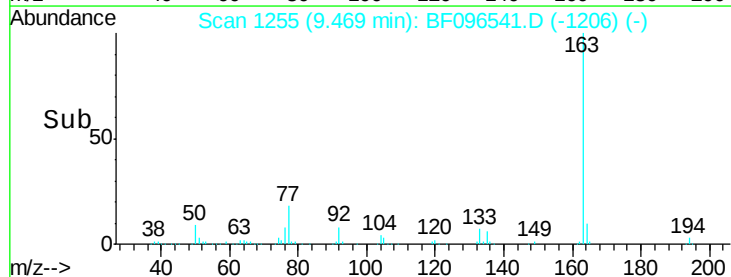
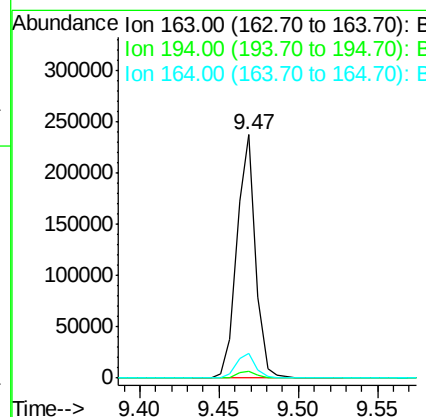
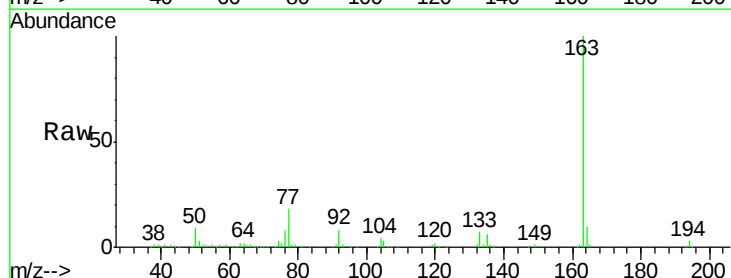
Manual Integrations  
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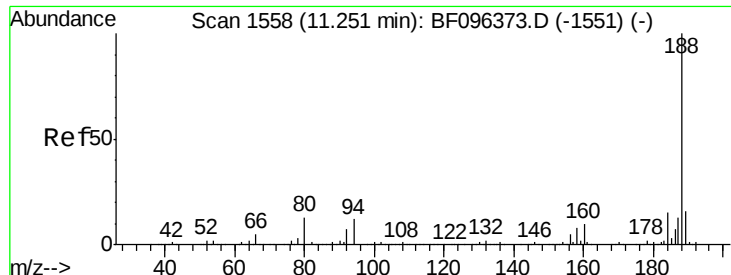
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#49  
Dimethylphthalate  
Concen: 14.728 ng  
RT: 9.47 min Scan# 1255  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 3.0   | 2.6        | 4.0        |
| 164     | 10.2  | 8.4        | 12.6       |





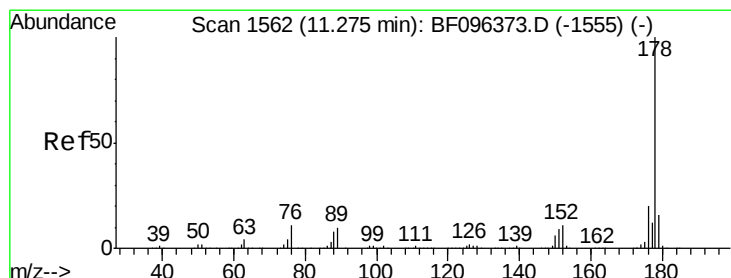
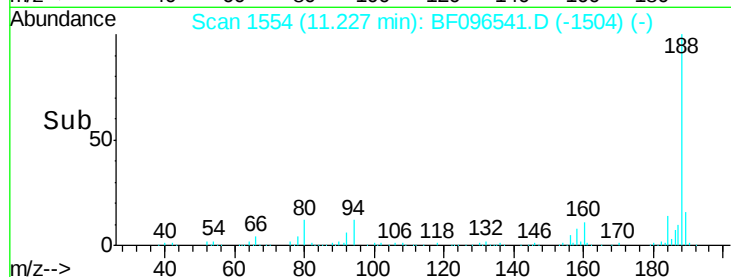
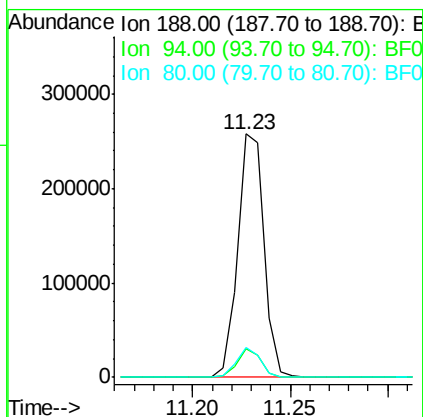
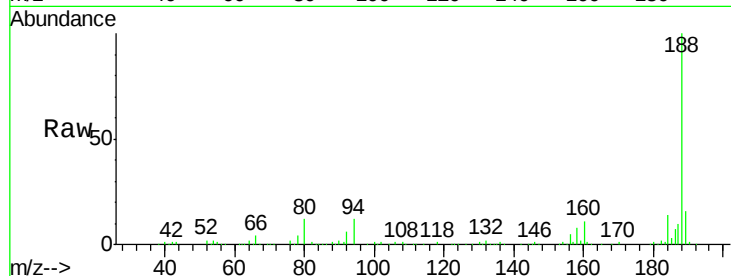
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1554  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 240181 |       |       |
| 94      | 11.7  | 9.4    | 14.2  |       |
| 80      | 12.0  | 10.2   | 15.2  |       |

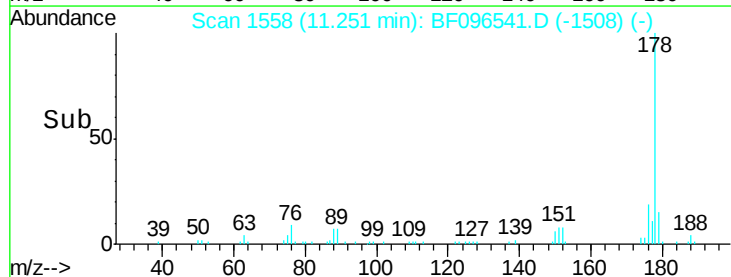
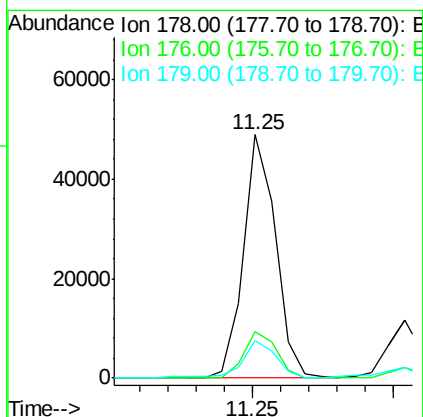
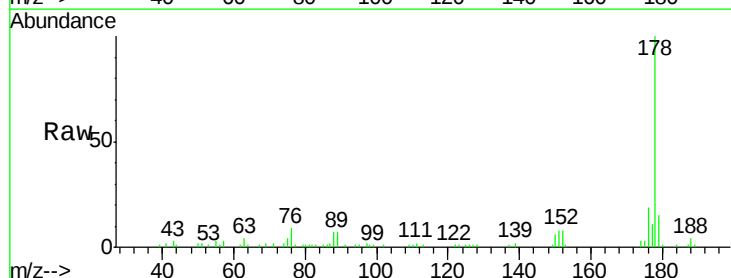
Manual Integrations  
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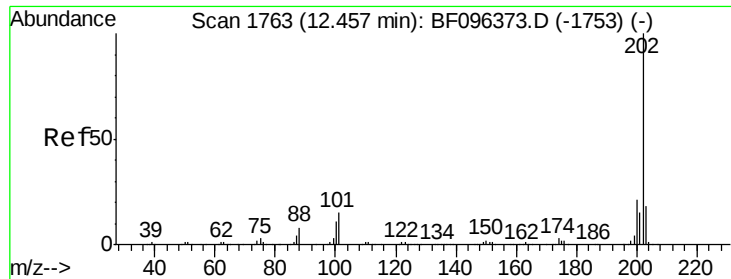
mohammad  
7/10/2017 11:44:52 AM



#70  
Phenanthrene  
Concen: 2.976 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 38641 |       |       |
| 176     | 18.8  | 16.2  | 24.4  |       |
| 179     | 15.4  | 12.6  | 19.0  |       |





#74

Fluoranthene

Concen: 4.518 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.00 min

Lab File: BF096541.D

Acq: 6 Jul 2017 18:54

Instrument :

BNA\_F

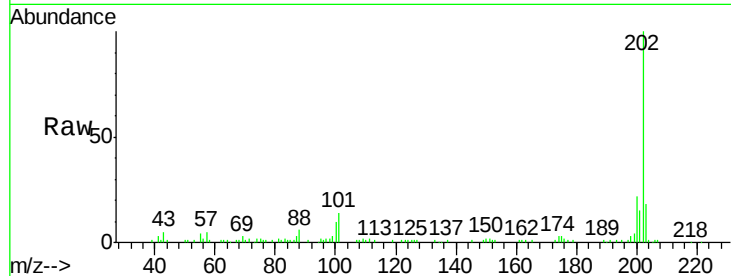
ClientSampleId :

SS3-1-4-COMP

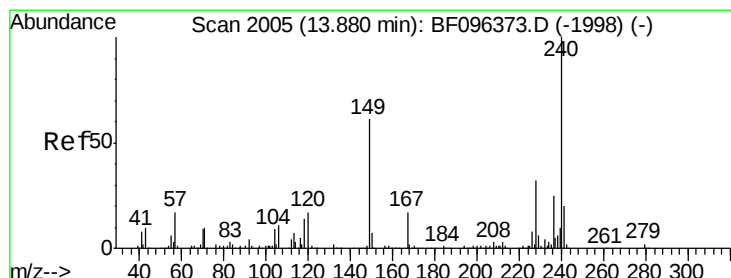
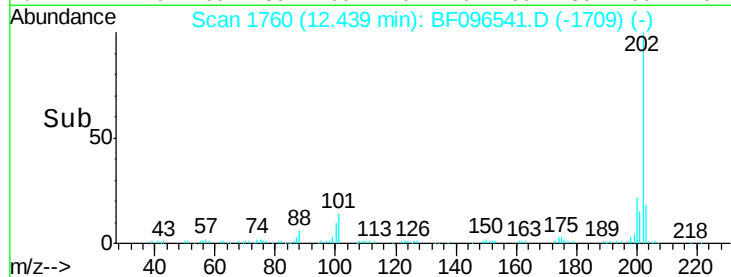
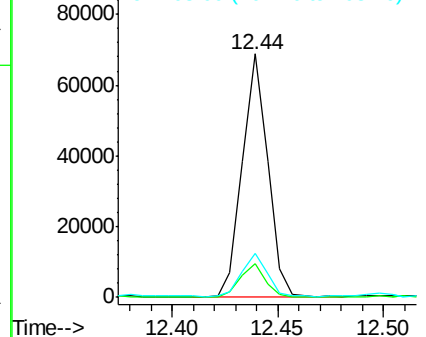
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 57507 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.7  | 0.0   | 33.2  |
| 203       | 18.0  | 0.0   | 38.1  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

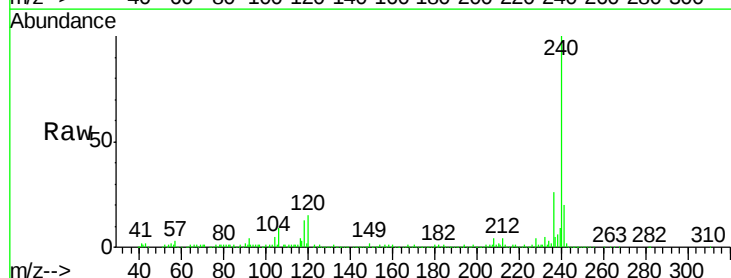
RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

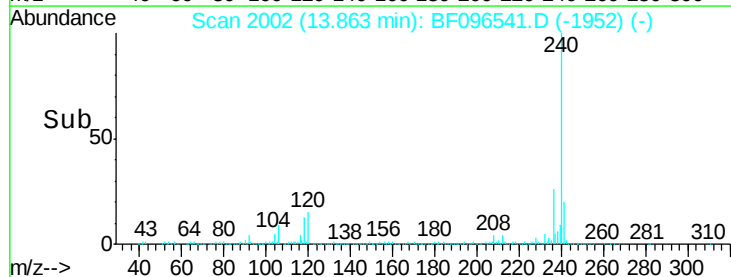
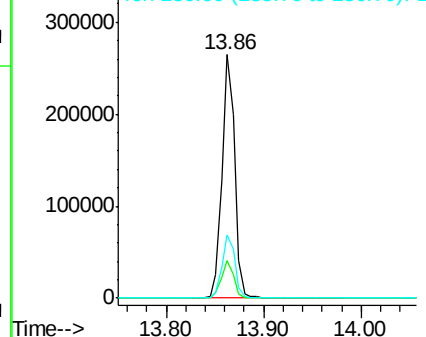
Lab File: BF096541.D

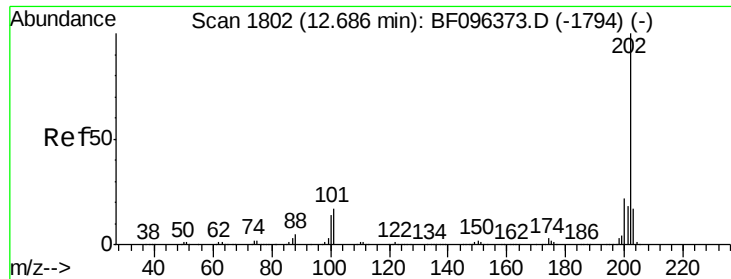
Acq: 6 Jul 2017 18:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 238960 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.2  | 5.8   | 8.8#   |
| 236       | 25.8  | 20.5  | 30.7   |



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: 2.806 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.00 min

Lab File: BF096541.D

Acq: 6 Jul 2017 18:54

Instrument :

BNA\_F

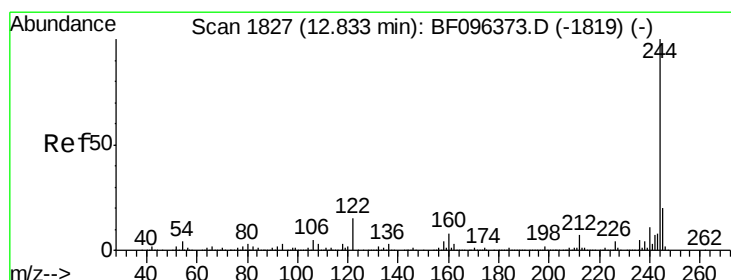
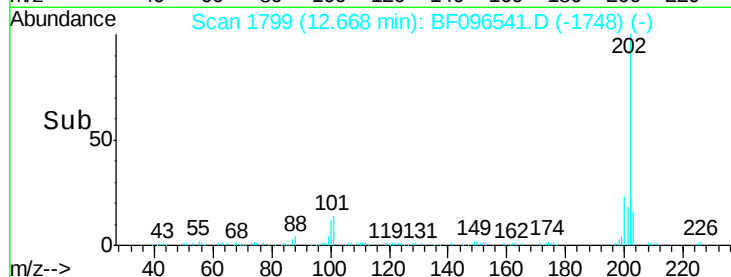
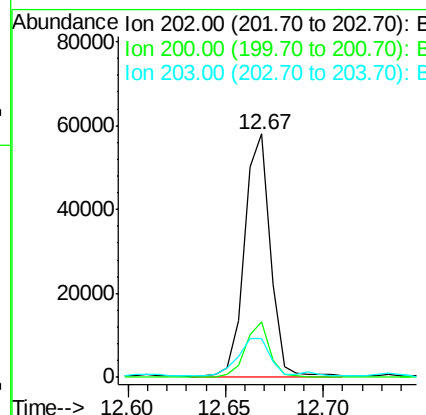
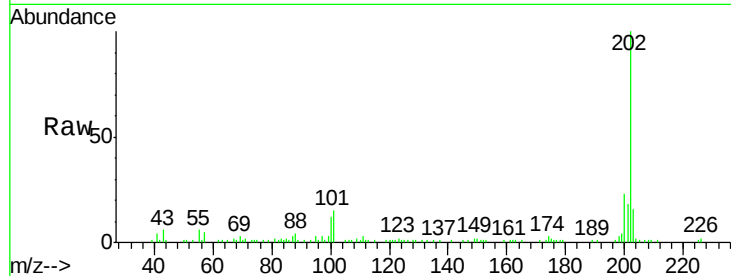
ClientSampleId :

SS3-1-4-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 53822 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 22.9  | 17.6  | 26.4  |
| 203       | 16.2  | 14.4  | 21.6  |

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#78

Terphenyl-d14

Concen: 41.449 ng

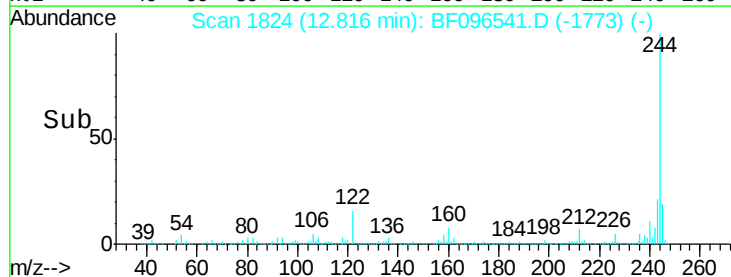
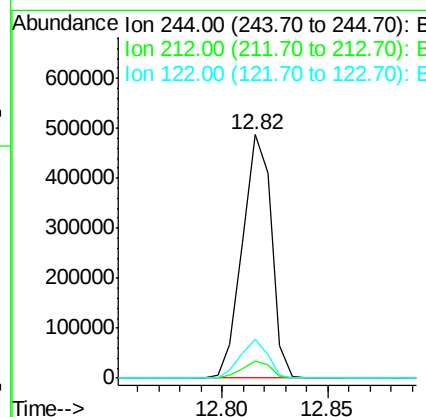
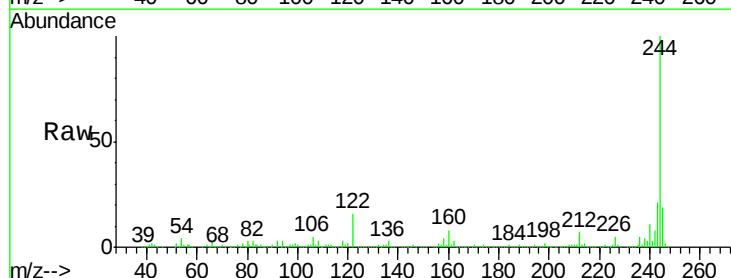
RT: 12.82 min Scan# 1824

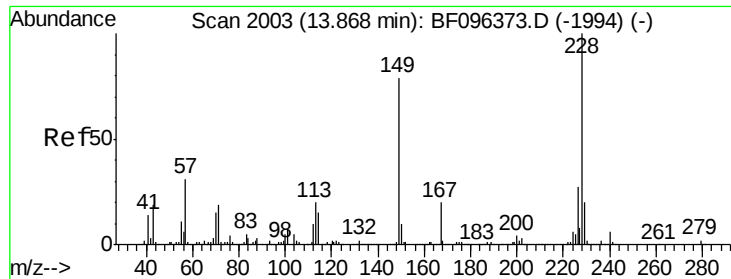
Delta R.T. -0.00 min

Lab File: BF096541.D

Acq: 6 Jul 2017 18:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 463522 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.0   | 6.0   | 9.0    |
| 122       | 16.1  | 10.3  | 15.5   |





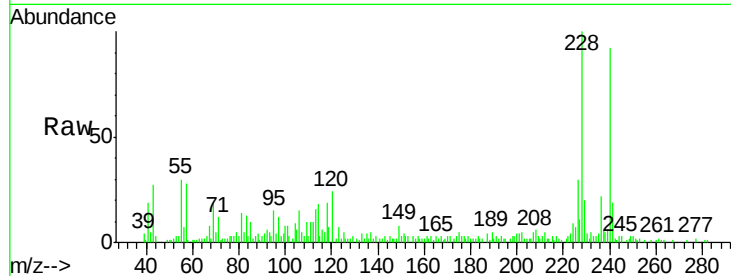
#80  
Benzo(a)anthracene  
Concen: 2.090 ng  
RT: 13.85 min Scan# 2000  
Delta R.T. -0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS3-1-4-COMP

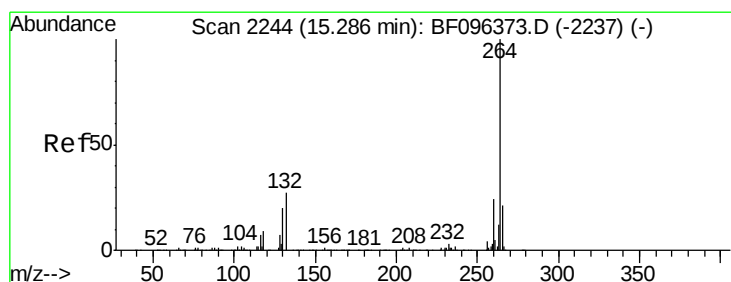
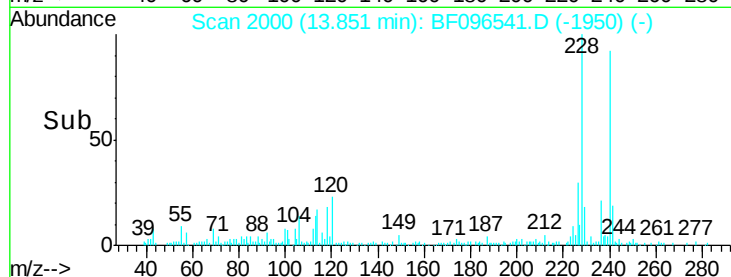
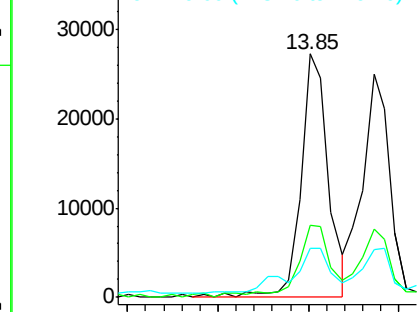
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 22.6  | 33.8  |
| 229     | 20.2  | 16.3  | 24.5  |

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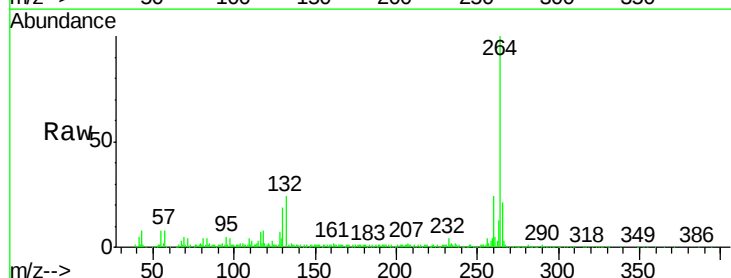


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

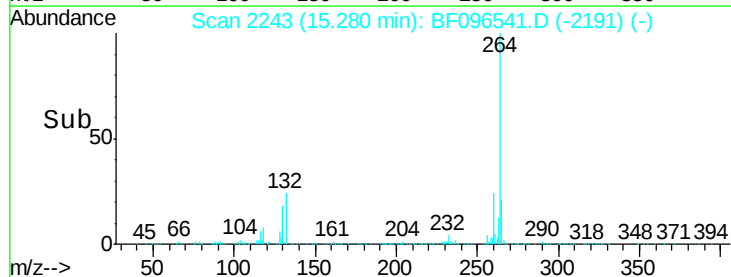
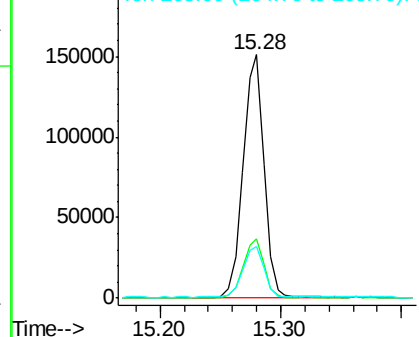


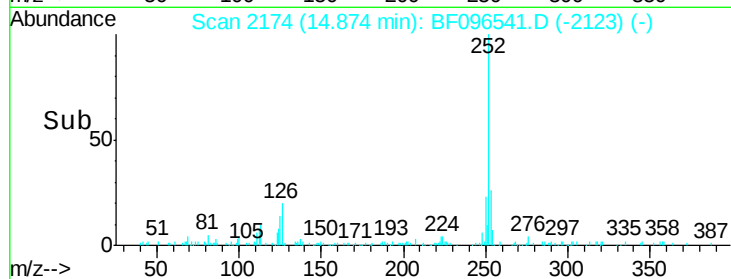
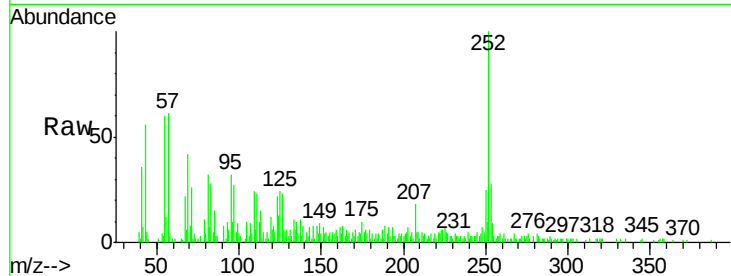
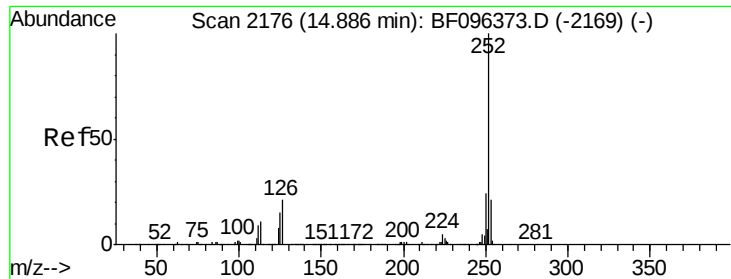
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2243  
Delta R.T. 0.01 min  
Lab File: BF096541.D  
Acq: 6 Jul 2017 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.5  | 29.3  |
| 265     | 21.4  | 17.2  | 25.8  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 2.478 ng m

RT: 14.87 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BF096541.D

Acq: 6 Jul 2017 18:54

Instrument :

BNA\_F

ClientSampleId :

SS3-1-4-COMP

Tgt Ion: 252 Resp: 28581

Ion Ratio Lower Upper

252 100

253 27.9 18.1 27.1#

125 24.4 9.8 14.8#

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