

Data Path : Z:\HPCHEM1\BNA F\Data\BF101915\  
 Data File : BF082365.D  
 Acq On : 19 Oct 2015 19:50  
 Operator : UM/IZ  
 Sample : G4047-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFFWW

Manual Integrations  
 APPROVED

MMdadoda  
 10/23/2015 11:27:10 AM

Quant Time: Oct 23 10:45:09 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 20 01:57:16 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response  | Conc     | Units | Dev(Min) |
|-----------------------------|-------|------|-----------|----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 106368    | 20.00    | ng    | 0.01     |
| 21) Naphthalene-d8          | 8.10  | 136  | 230508    | 20.00    | ng    | 0.01     |
| 38) Acenaphthene-d10        | 9.91  | 164  | 183649    | 20.00    | ng    | 0.06     |
| 63) Phenanthrene-d10        | 11.38 | 188  | 321122    | 20.00    | ng    | 0.03     |
| 75) Chrysene-d12            | 14.08 | 240  | 146448    | 20.00    | ng    | -0.01    |
| 86) Perylene-d12            | 15.59 | 264  | 233481    | 20.00    | ng    | -0.08    |
| System Monitoring Compounds |       |      |           |          |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 193189    | 36.66    | ng    | 0.02     |
| 7) Phenol-d6                | 6.48  | 99   | 163450    | 23.83    | ng    | 0.03     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 520313    | 151.59   | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol    | 10.75 | 330  | 95952     | 55.71    | ng    | 0.10     |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 223191    | 20.15    | ng    | 0.02     |
| 78) Terphenyl-d14           | 12.97 | 244  | 377440    | 68.30    | ng    | 0.02     |
| Target Compounds            |       |      |           |          |       | Qvalue   |
| 9) Benzaldehyde             | 6.37  | 77   | 296550    | 84.67    | ng    | 98       |
| 10) Phenol                  | 6.49  | 94   | 461095    | 58.31    | ng    | 88       |
| 15) Benzyl Alcohol          | 7.05  | 79   | 853232    | 180.21   | ng    | 96       |
| 17) 2-Methylphenol          | 7.13  | 107  | 84931     | 16.69    | ng    | 97       |
| 20) 3+4-Methylphenols       | 7.27  | 107  | 130382m   | 21.51    | ng    |          |
| 22) Acetophenone            | 7.26  | 105  | 2268777   | 497.56   | ng    | # 86     |
| 32) Benzoic acid            | 8.66  | 122  | 29019826m | 14466.52 | ng    |          |

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

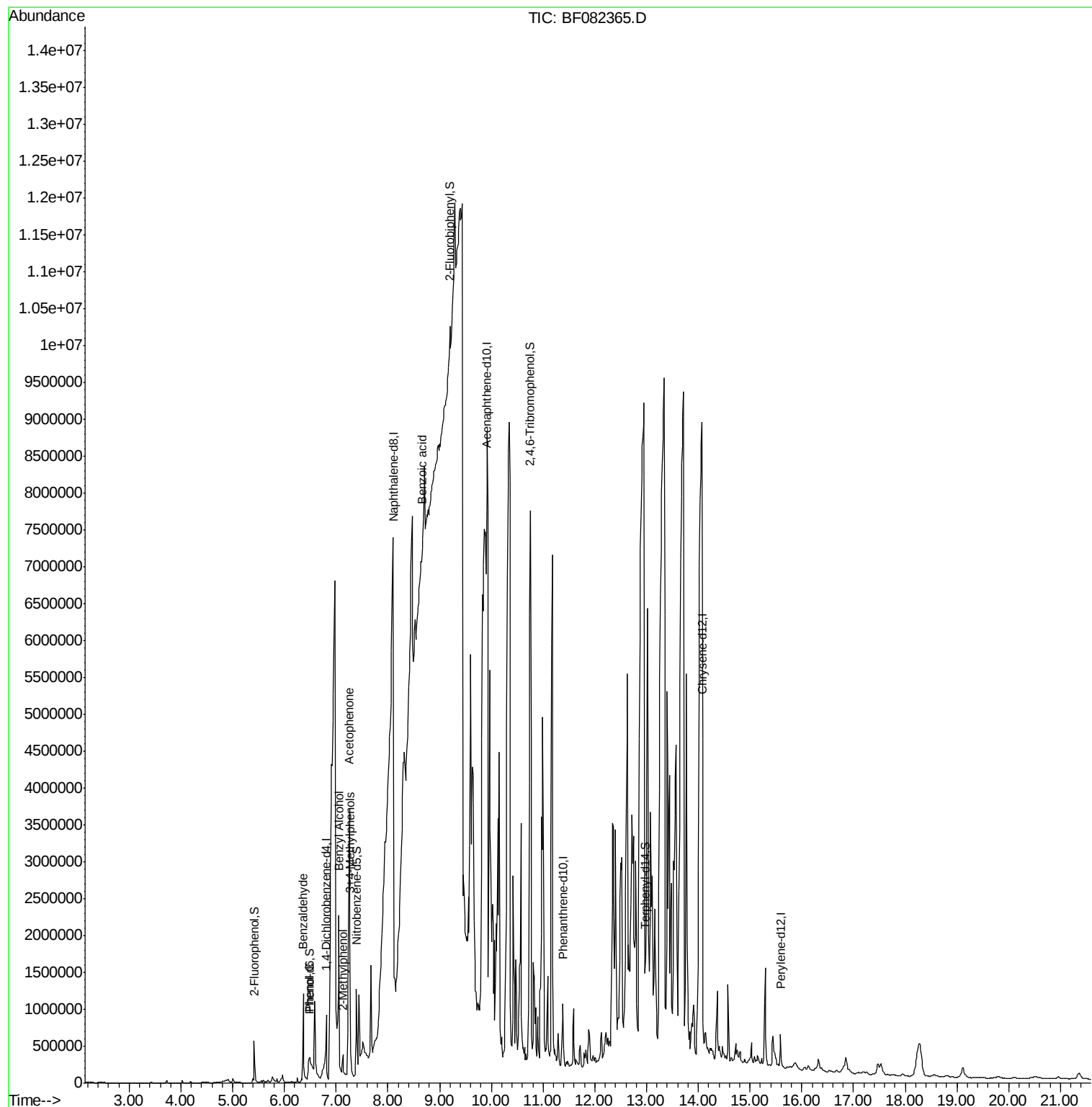
Data Path : Z:\HPCHEM1\BNA F\Data\BF101915\  
Data File : BF082365.D  
Acq On : 19 Oct 2015 19:50  
Operator : UM/IZ  
Sample : G4047-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

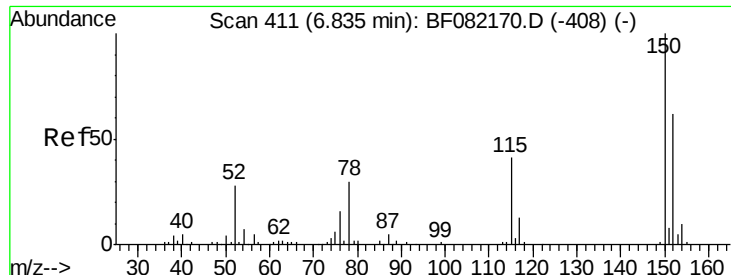
Instrument :  
BNA\_F  
ClientSampleId :  
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Manual Integrations  
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Quant Time: Oct 23 10:45:09 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 20 01:57:16 2015  
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#1

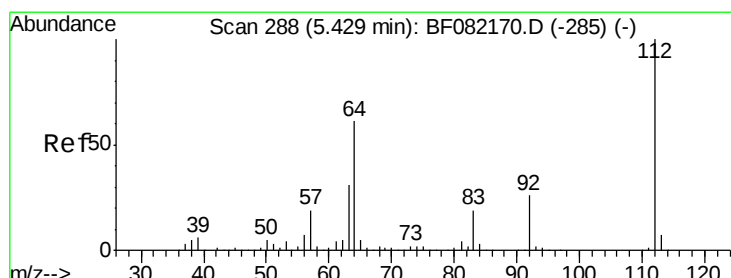
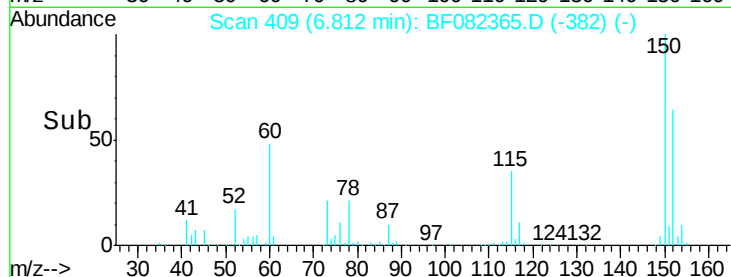
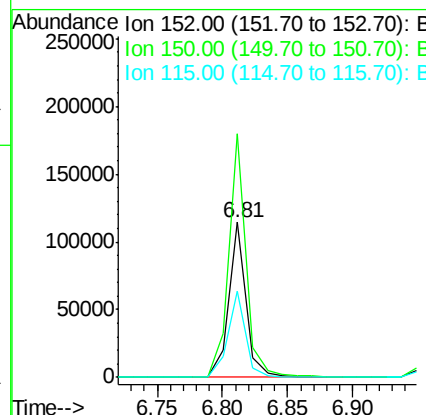
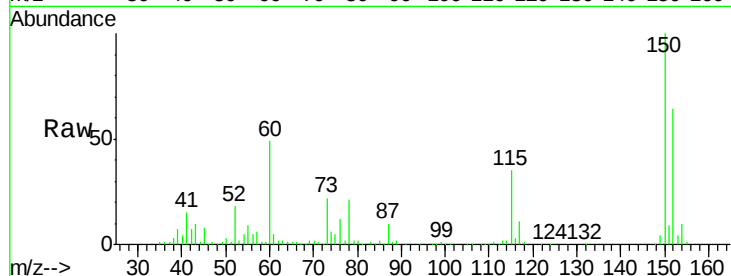
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.81 min Scan# 409  
Delta R.T. 0.01 min  
Lab File: BF082365.D  
Acq: 19 Oct 2015 19:50

Instrument :  
BNA\_F  
ClientSampleId :  
EFFWW

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   |       |       |       |
| 150     | 157.2 | 129.0 | 193.4 |       |
| 115     | 55.5  | 52.1  | 78.1  |       |

Manual Integrations  
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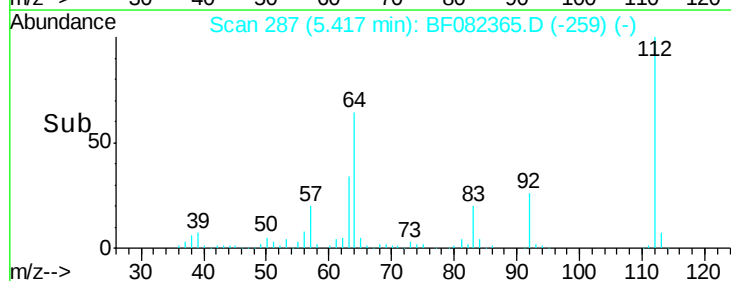
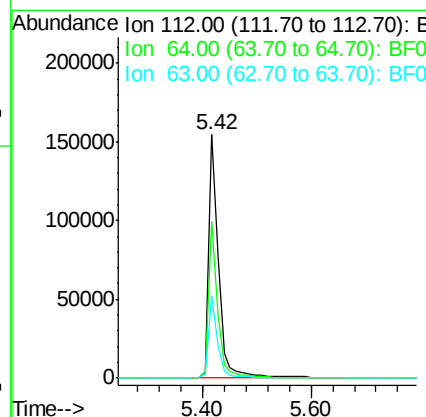
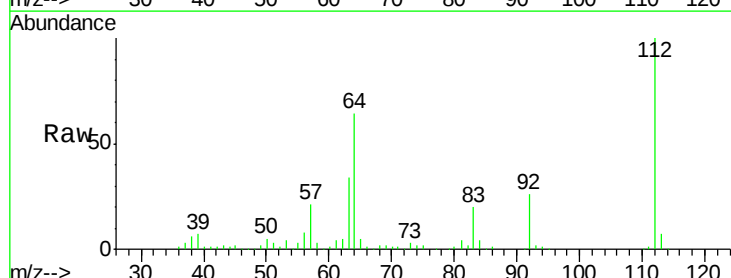
MMdadoda  
10/23/2015 11:27:10 AM

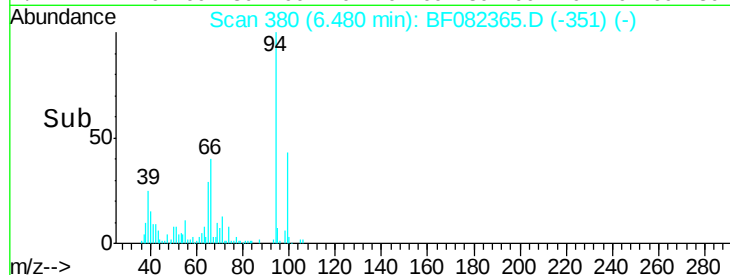
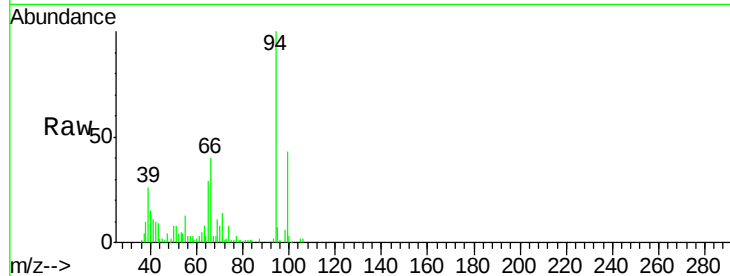


#5

2-Fluorophenol  
Concen: 36.66 ng  
RT: 5.42 min Scan# 287  
Delta R.T. 0.02 min  
Lab File: BF082365.D  
Acq: 19 Oct 2015 19:50

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 112     | 100   |      |       |       |
| 64      | 64.4  | 48.6 | 73.0  |       |
| 63      | 34.0  | 25.1 | 37.7  |       |





#7

Phenol-d6

Concen: 23.83 ng

RT: 6.48 min Scan# 380

Delta R.T. 0.03 min

Lab File: BF082365.D

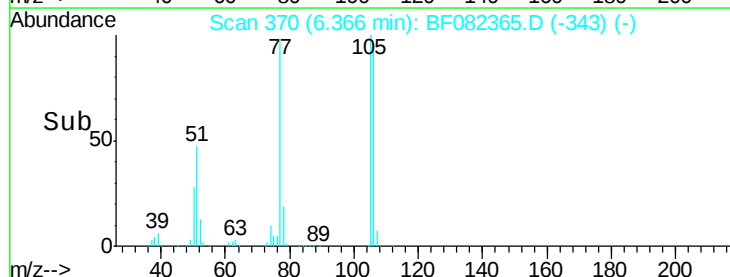
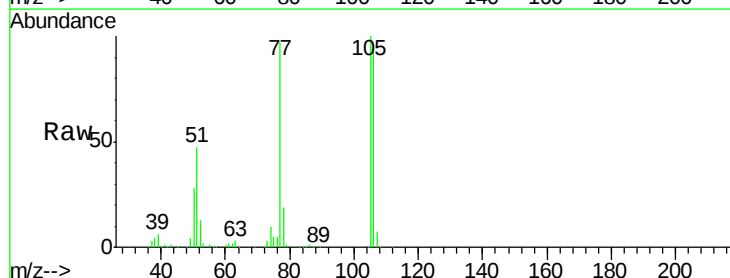
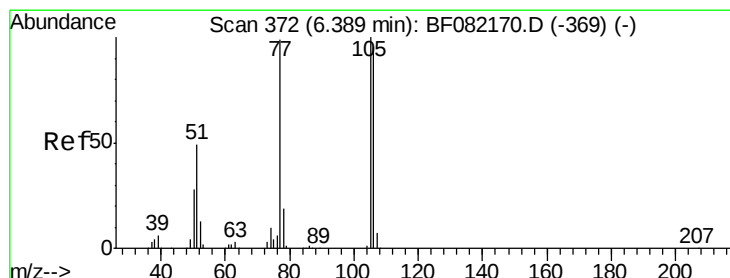
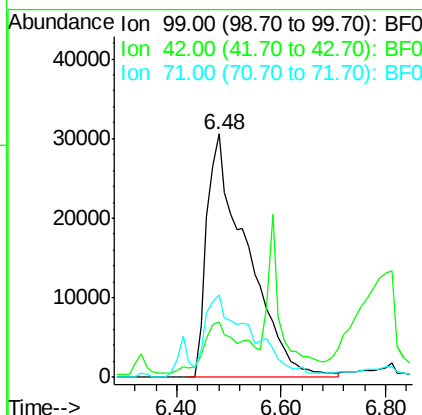
Acq: 19 Oct 2015 19:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 163450 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 23.0  | 13.2  | 19.8#  |
| 71        | 33.6  | 25.6  | 38.4   |

Instrument :  
BNA\_F  
ClientSampleId :  
EFFWW

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#9

Benzaldehyde

Concen: 84.67 ng

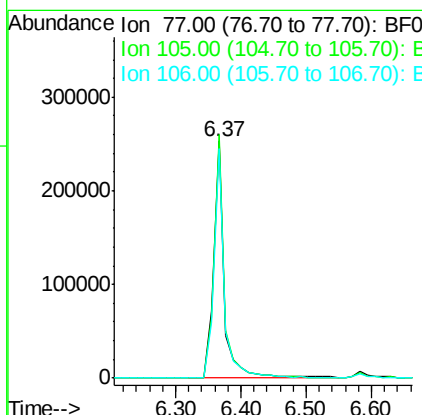
RT: 6.37 min Scan# 370

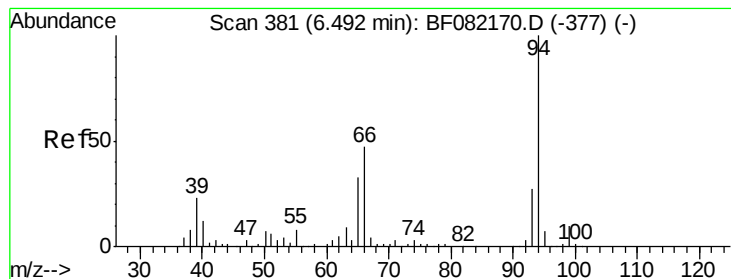
Delta R.T. 0.01 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 296550 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 102.9 | 80.6  | 120.6  |
| 106       | 97.0  | 75.5  | 115.5  |





#10

Phenol

Concen: 58.31 ng

RT: 6.49 min Scan# 381

Delta R.T. 0.02 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

Instrument :

BNA\_F

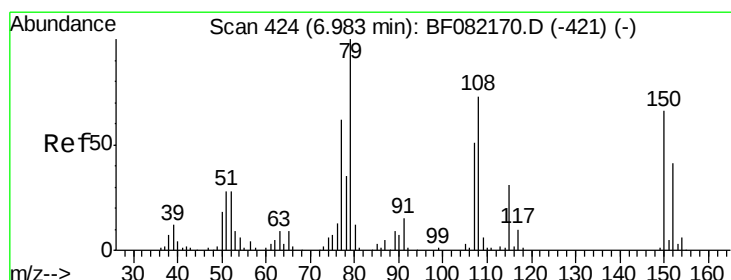
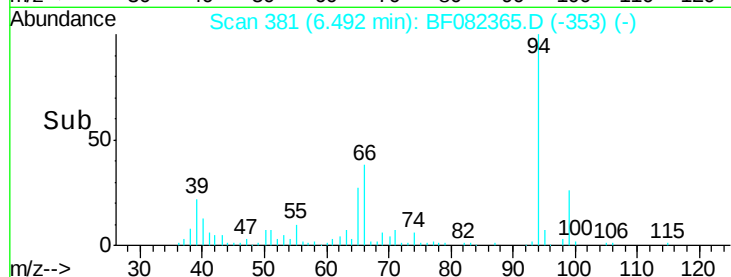
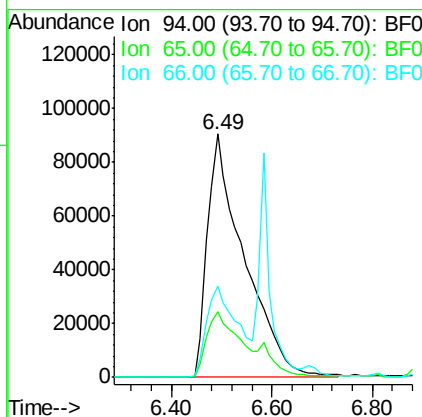
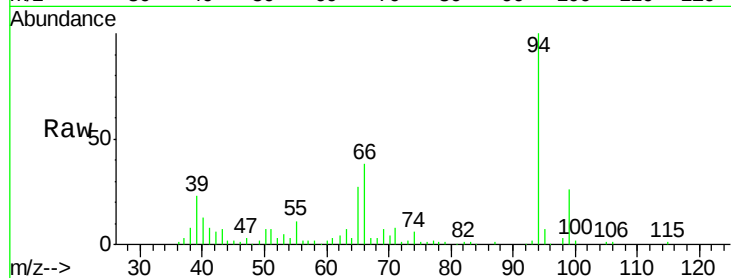
ClientSampleId :

EFFWW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 94    | Resp: | 461095 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 27.2  | 12.6  | 52.6   |
| 66        | 37.7  | 27.3  | 67.3   |

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#15

Benzyl Alcohol

Concen: 180.21 ng

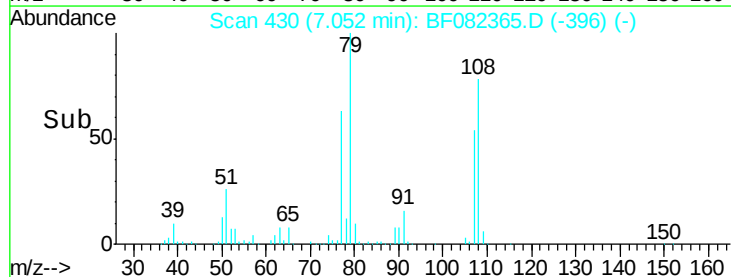
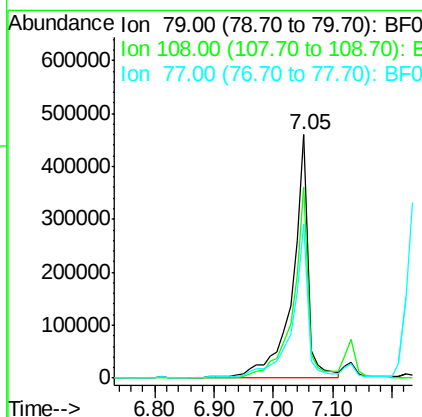
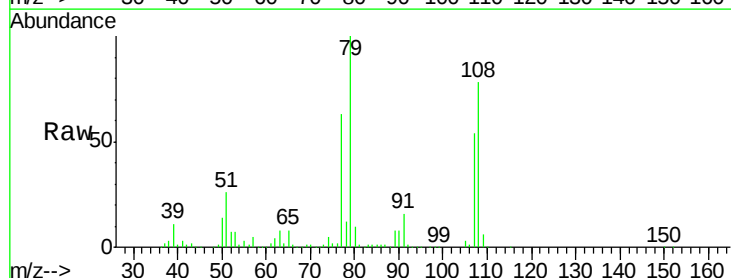
RT: 7.05 min Scan# 430

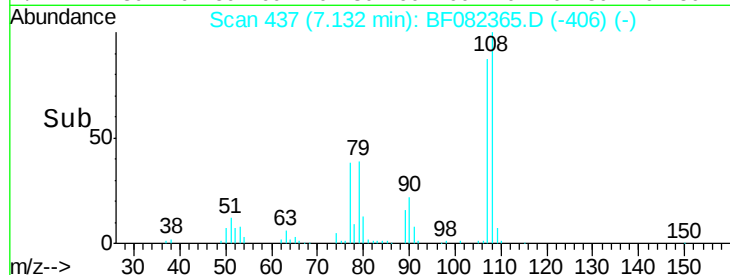
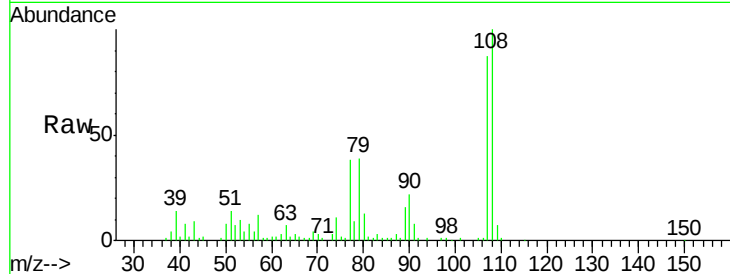
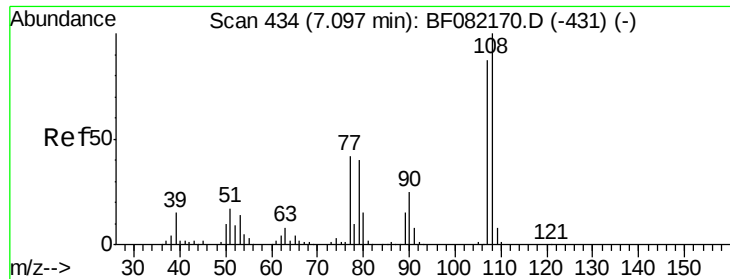
Delta R.T. 0.09 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 853232 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 108       | 78.4  | 58.4  | 87.6   |
| 77        | 63.3  | 49.8  | 74.6   |





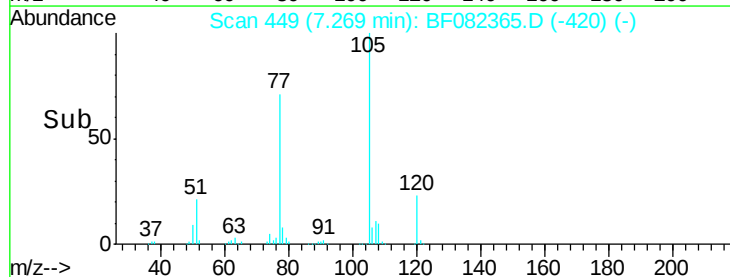
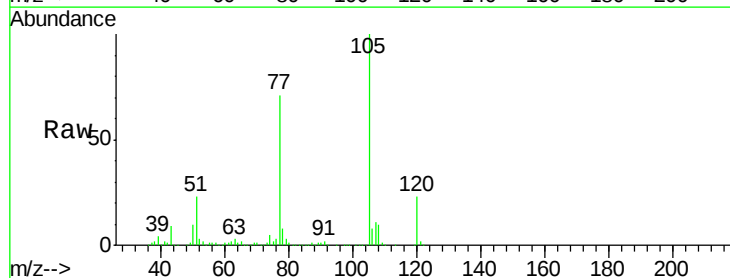
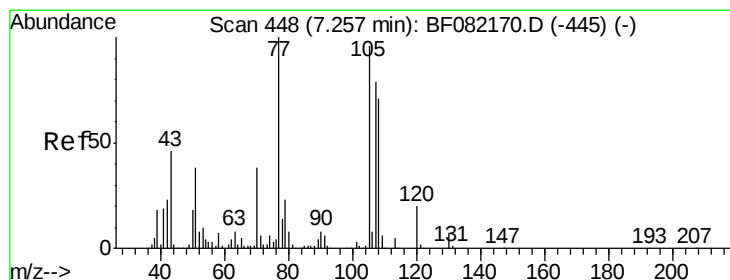
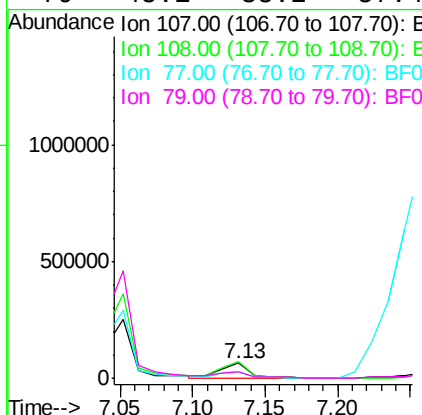
#17  
2-Methylphenol  
Concen: 16.69 ng  
RT: 7.13 min Scan# 437  
Delta R.T. 0.06 min  
Lab File: BF082365.D  
Acq: 19 Oct 2015 19:50

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 107     | 100   | 84931 |       |       |
| 108     | 114.6 | 92.2  | 138.2 |       |
| 77      | 43.8  | 39.6  | 59.4  |       |
| 79      | 45.1  | 38.2  | 57.4  |       |

Instrument :  
BNA\_F  
ClientSampleId :  
EFFWW

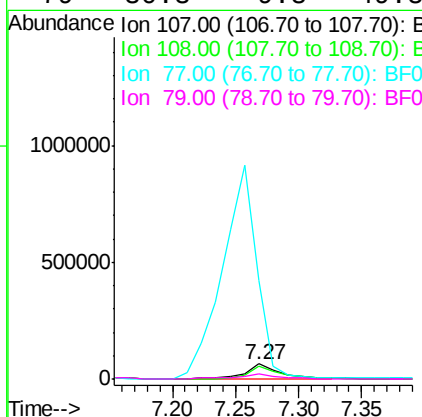
Manual Integrations  
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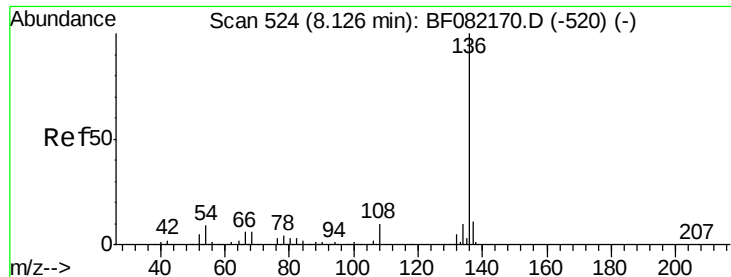
MMdadoda  
10/23/2015 11:27:10 AM



#20  
3+4-Methylphenols  
Concen: 21.51 ng m  
RT: 7.27 min Scan# 449  
Delta R.T. 0.03 min  
Lab File: BF082365.D  
Acq: 19 Oct 2015 19:50

| Tgt Ion | Ratio | Resp   | Lower  | Upper |
|---------|-------|--------|--------|-------|
| 107     | 100   | 130382 |        |       |
| 108     | 86.7  | 69.9   | 109.9  |       |
| 77      | 642.8 | 106.0  | 146.0# |       |
| 79      | 30.3  | 9.8    | 49.8   |       |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 522

Delta R.T. 0.01 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

Instrument :

BNA\_F

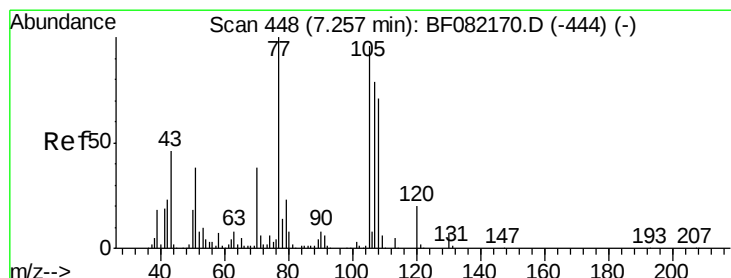
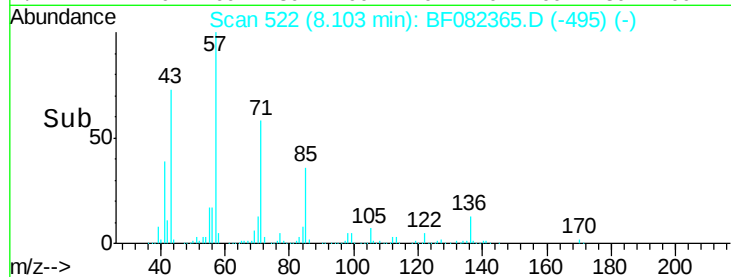
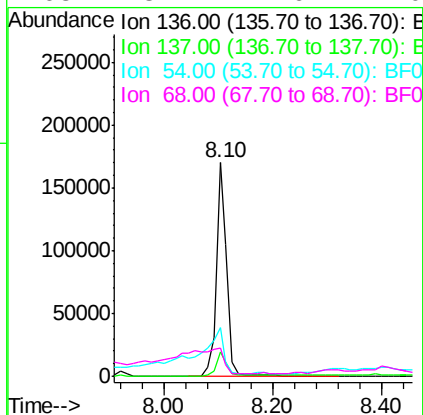
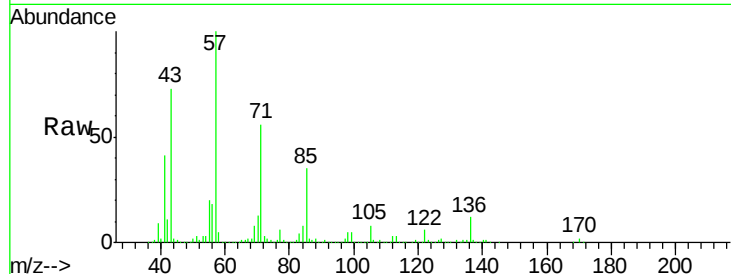
ClientSampleId :

EFFWW

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 230508 |       |       |
| 137     | 11.1 | 9.0   | 13.6   |       |       |
| 54      | 23.0 | 7.5   | 11.3#  |       |       |
| 68      | 13.4 | 4.6   | 7.0#   |       |       |

Manual Integrations  
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10/23/2015 11:27:10 AM



#22

Acetophenone

Concen: 497.56 ng

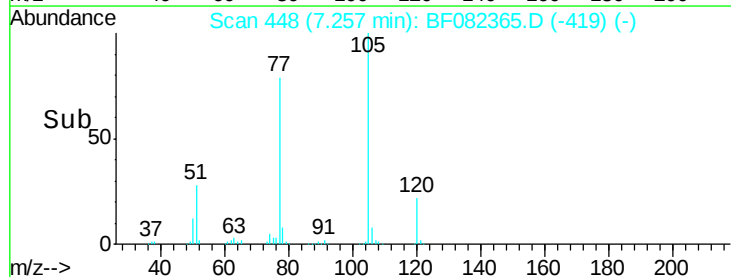
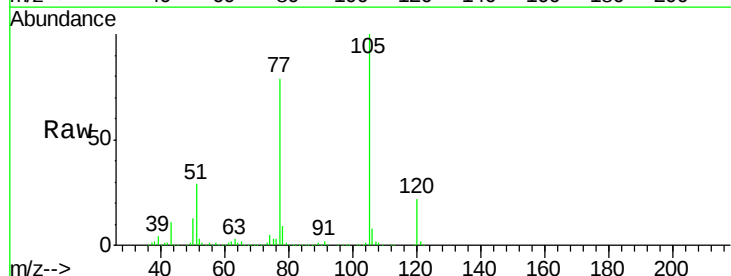
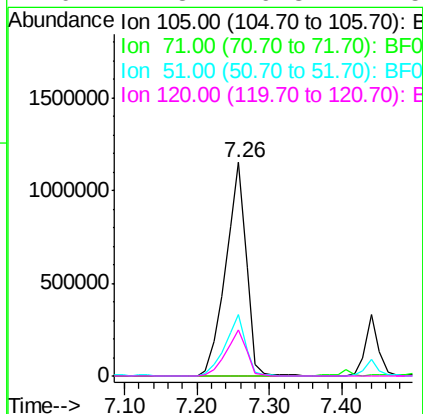
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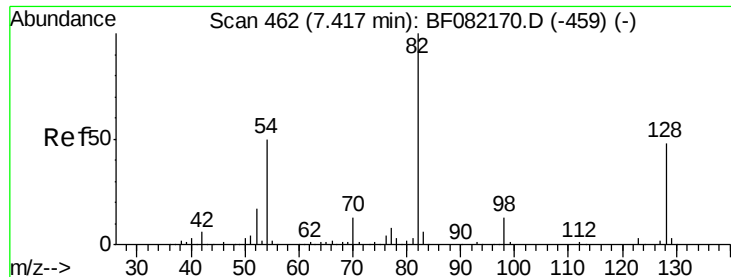
Delta R.T. 0.03 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 105     | 100  |       | 2268777 |       |       |
| 71      | 0.2  | 5.4   | 8.0#    |       |       |
| 51      | 28.6 | 31.8  | 47.6#   |       |       |
| 120     | 21.8 | 16.3  | 24.5    |       |       |





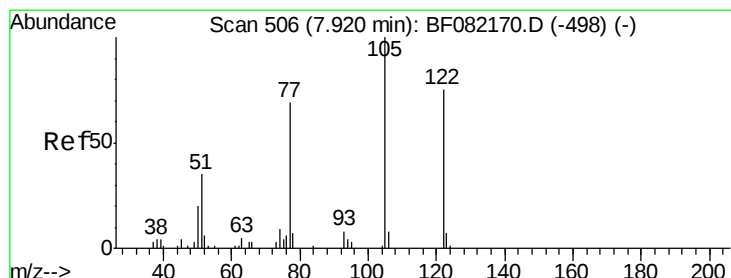
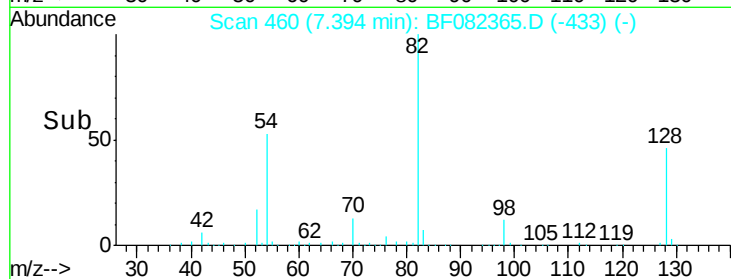
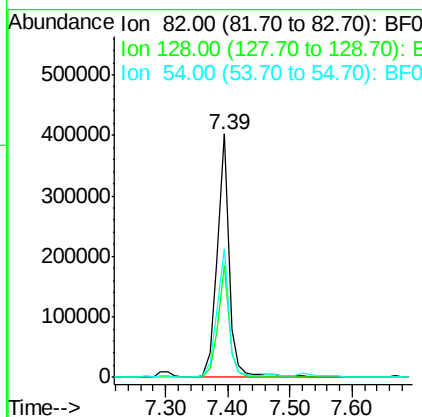
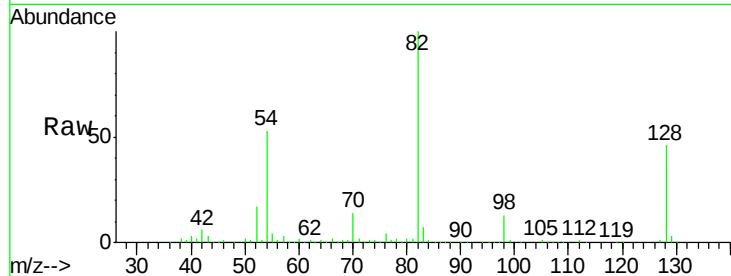
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 Nitrobenzene-d5  
 Concen: 151.59 ng  
 RT: 7.39 min Scan# 460  
 Delta R.T. 0.01 min  
 Lab File: BF082365.D  
 Acq: 19 Oct 2015 19:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFFWW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.1  | 38.7  | 58.1  |
| 54      | 52.7  | 40.1  | 60.1  |

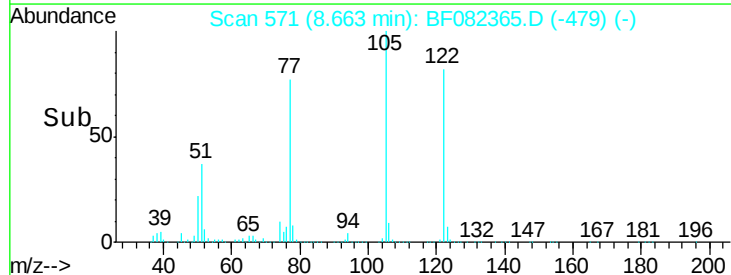
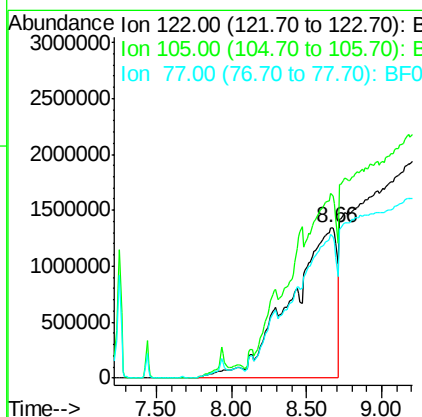
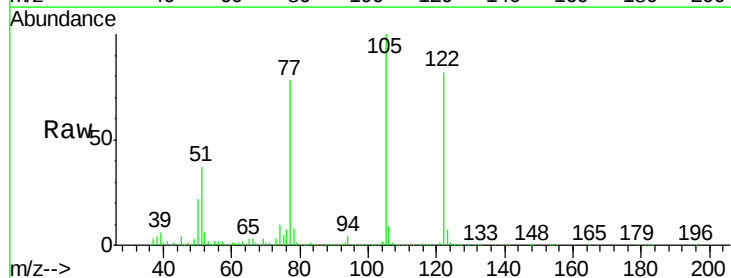
Manual Integrations  
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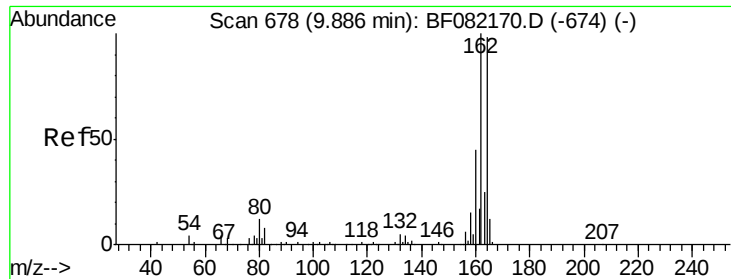
MMdadoda  
 10/23/2015 11:27:10 AM



#32  
 Benzoic acid  
 Concen: 14466.52 ng m  
 RT: 8.66 min Scan# 571  
 Delta R.T. 0.75 min  
 Lab File: BF082365.D  
 Acq: 19 Oct 2015 19:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 122.7 | 104.4 | 144.4 |
| 77      | 95.1  | 69.0  | 109.0 |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.91 min Scan# 680

Delta R.T. 0.06 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

Instrument :

BNA\_F

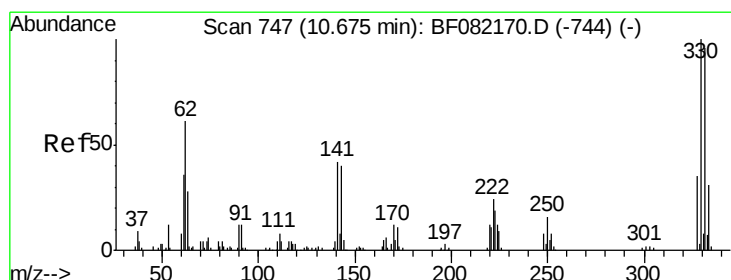
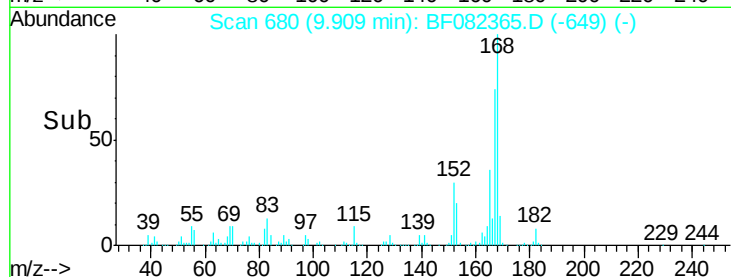
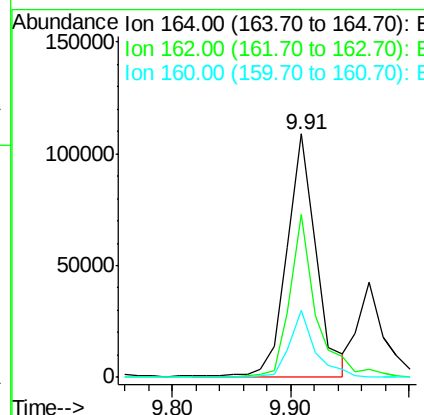
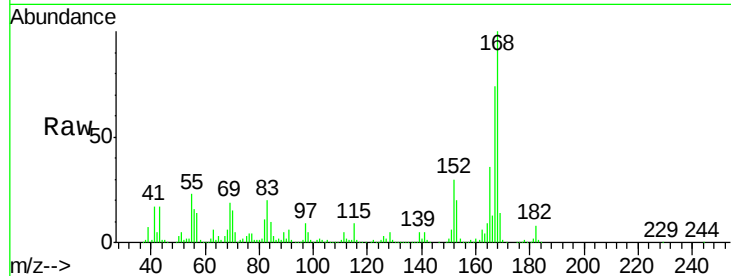
ClientSampleId :

EFFWW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 183649 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 66.8  | 81.6  | 122.4# |
| 160       | 27.3  | 36.4  | 54.6#  |

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#41

2,4,6-Tribromophenol

Concen: 55.71 ng

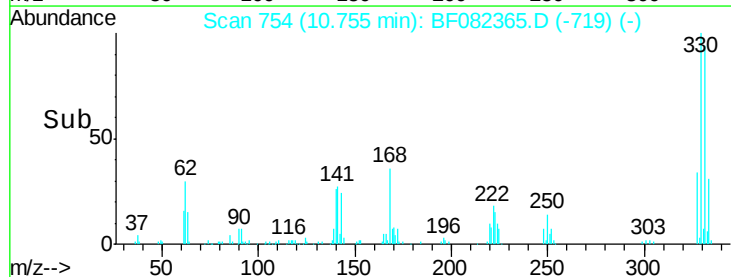
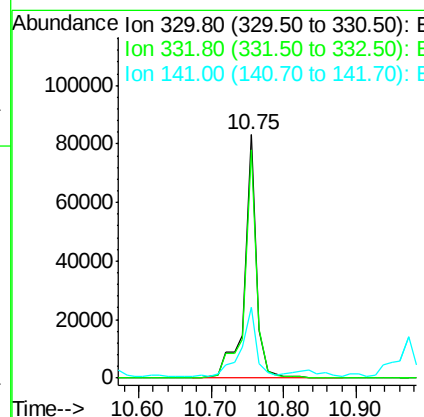
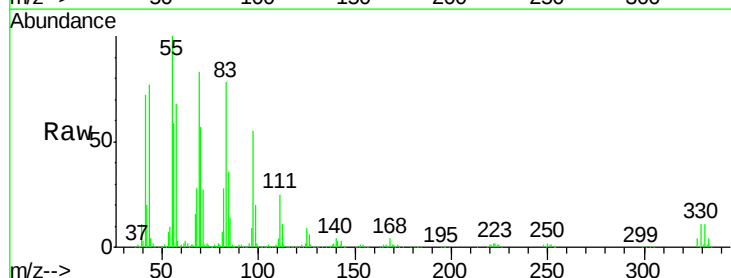
RT: 10.75 min Scan# 754

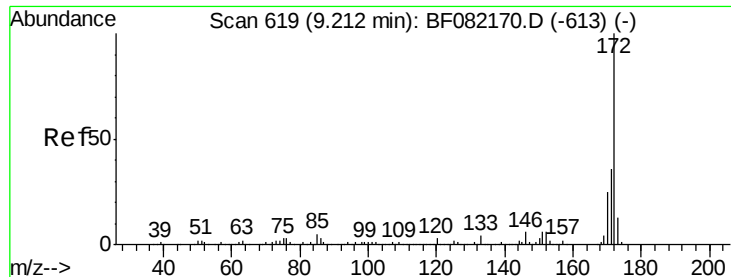
Delta R.T. 0.10 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 95952 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 94.9  | 77.1  | 115.7 |
| 141       | 35.7  | 29.8  | 44.8  |





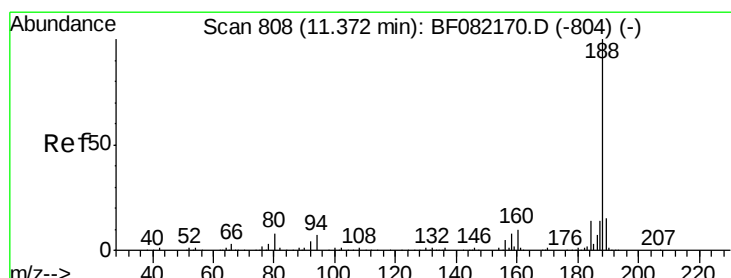
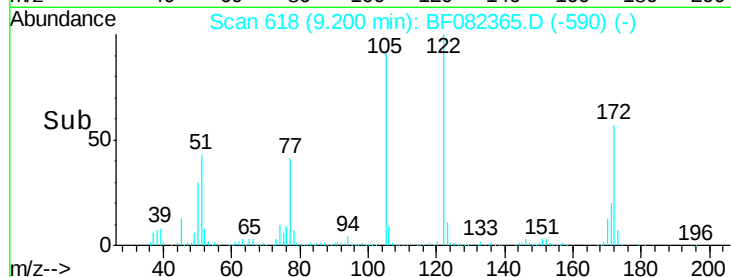
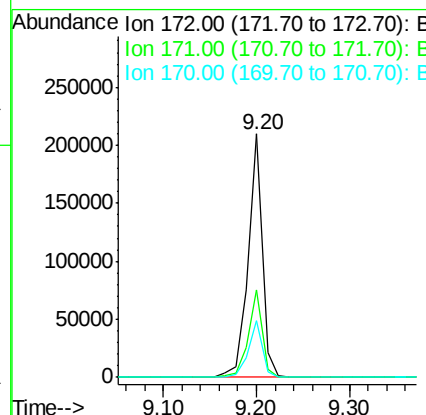
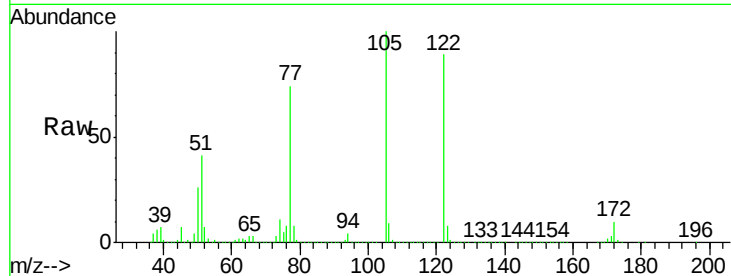
#44  
2-Fluorobiphenyl  
Concen: 20.15 ng  
RT: 9.20 min Scan# 618  
Delta R.T. 0.02 min  
Lab File: BF082365.D  
Acq: 19 Oct 2015 19:50

Instrument :  
BNA\_F  
ClientSampleId :  
EFFWW

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 223191 |       |       |
| 171     | 35.8  | 28.6   | 42.8  |       |
| 170     | 23.1  | 19.7   | 29.5  |       |

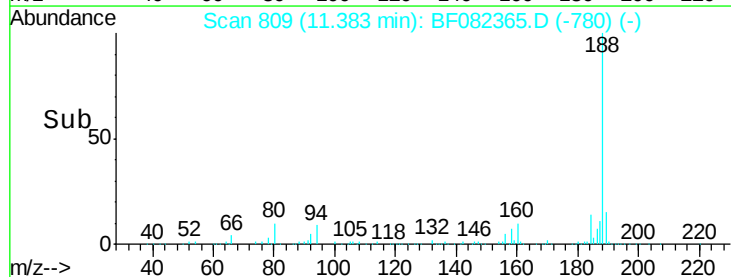
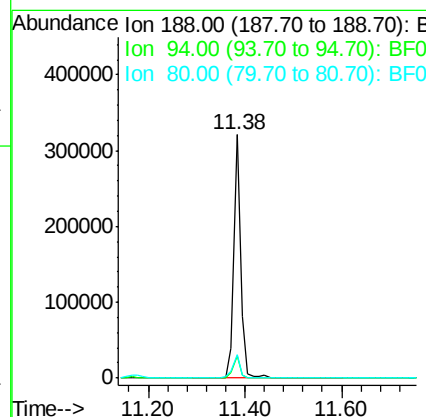
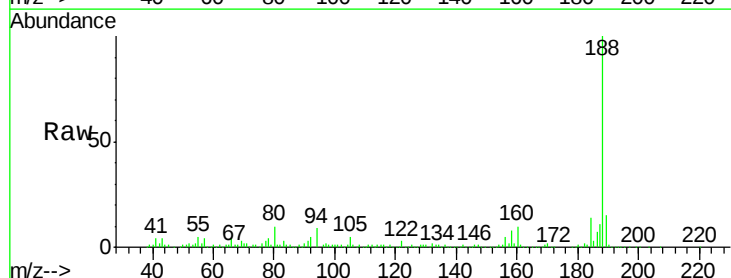
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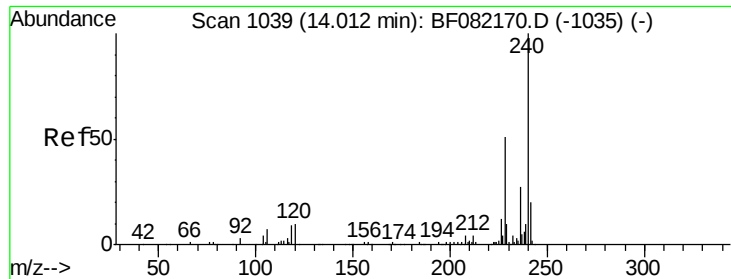
MMdadoda  
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 809  
Delta R.T. 0.03 min  
Lab File: BF082365.D  
Acq: 19 Oct 2015 19:50

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 321122 |       |       |
| 94      | 9.2   | 5.8    | 8.6#  |       |
| 80      | 9.8   | 6.4    | 9.6#  |       |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BF082365.D

Acq: 19 Oct 2015 19:50

Instrument :

BNA\_F

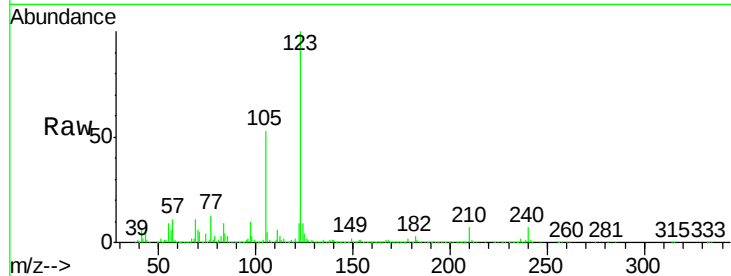
ClientSampleId :

EFFWW

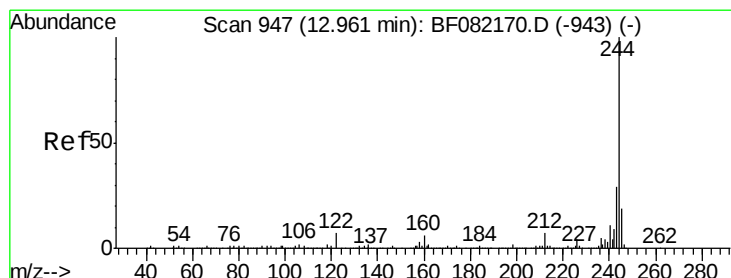
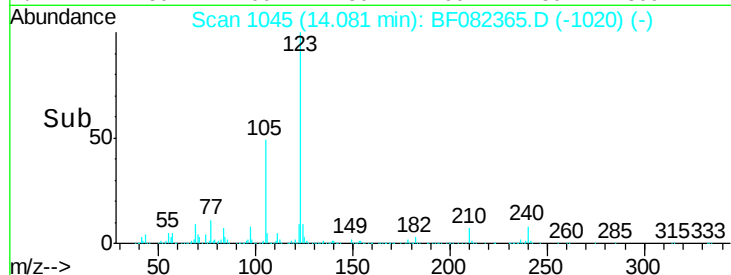
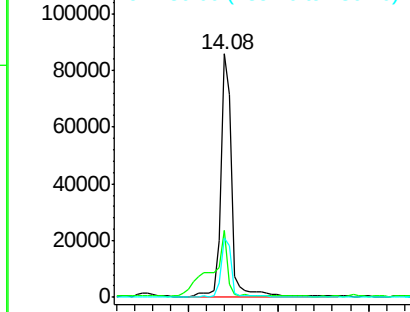
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 146448 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 27.5  | 8.1   | 12.1#  |
| 236       | 24.1  | 21.3  | 31.9   |

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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



#78

Terphenyl-d14

Concen: 68.30 ng

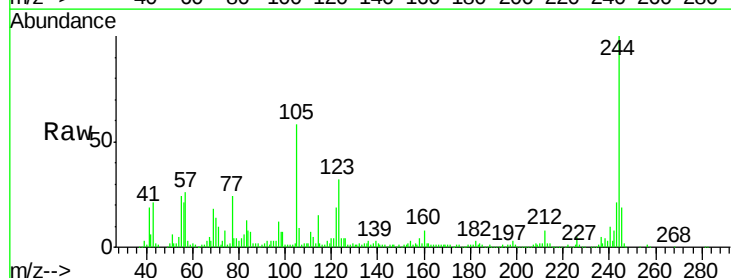
RT: 12.97 min Scan# 948

Delta R.T. 0.02 min

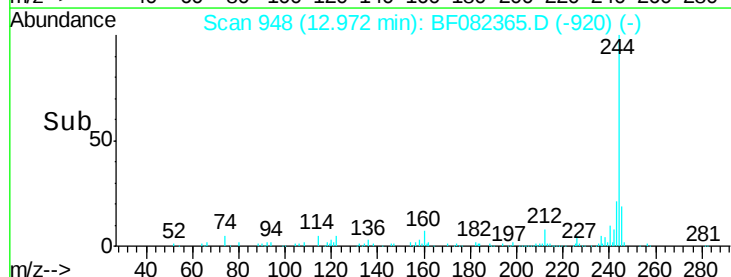
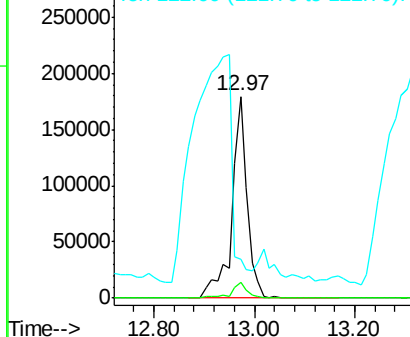
Lab File: BF082365.D

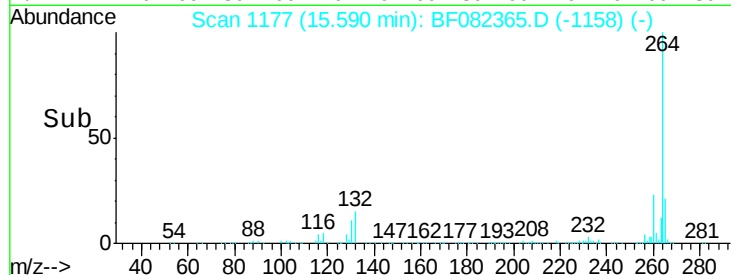
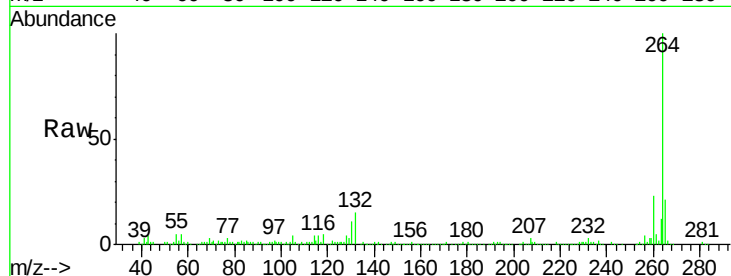
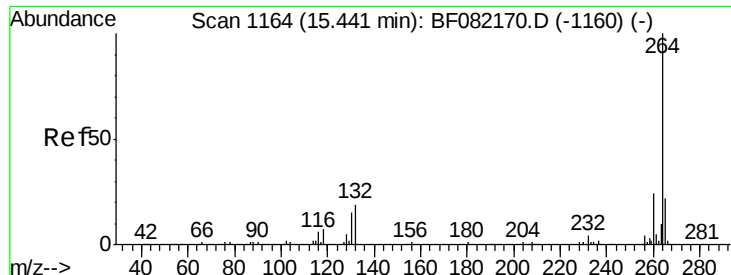
Acq: 19 Oct 2015 19:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 377440 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.9   | 5.8   | 8.6    |
| 122       | 19.3  | 5.9   | 8.9#   |



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





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.59 min Scan# 1177  
 Delta R.T. -0.08 min  
 Lab File: BF082365.D  
 Acq: 19 Oct 2015 19:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 233481 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.2  | 19.0  | 28.6   |
| 265       | 21.2  | 17.3  | 25.9   |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFFWW

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