

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086963.D  
 Acq On : 13 May 2016 9:08  
 Operator : UM/SJ  
 Sample : H2994-18  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CH-STA-1720-00(0-2)

Manual Integrations  
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Quant Time: May 13 14:37:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 16:04:56 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|-------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.63  | 152  | 127636m  | 20.00 | ng    | -0.07        |
| 21) Naphthalene-d8          | 7.91  | 136  | 504213   | 20.00 | ng    | -0.08        |
| 38) Acenaphthene-d10        | 9.66  | 164  | 200286   | 20.00 | ng    | -0.08        |
| 63) Phenanthrene-d10        | 11.13 | 188  | 305233   | 20.00 | ng    | -0.08        |
| 75) Chrysene-d12            | 13.76 | 240  | 288430   | 20.00 | ng    | -0.08        |
| 86) Perylene-d12            | 15.12 | 264  | 233768   | 20.00 | ng    | -0.09        |
| System Monitoring Compounds |       |      |          |       |       |              |
| 5) 2-Fluorophenol           | 5.22  | 112  | 602673   | 79.96 | ng    | -0.07        |
| 7) Phenol-d6                | 6.28  | 99   | 709402   | 70.43 | ng    | -0.08        |
| 23) Nitrobenzene-d5         | 7.20  | 82   | 553766   | 55.15 | ng    | -0.07        |
| 41) 2,4,6-Tribromophenol    | 10.44 | 330  | 140304   | 66.17 | ng    | -0.08        |
| 44) 2-Fluorobiphenyl        | 8.99  | 172  | 856132   | 71.84 | ng    | -0.07        |
| 78) Terphenyl-d14           | 12.72 | 244  | 702094   | 51.65 | ng    | -0.08        |
| Target Compounds            |       |      |          |       |       |              |
| 76) Benzidine               | 12.48 | 184  | 33171    | 4.51  | ng    | Qvalue<br>95 |

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

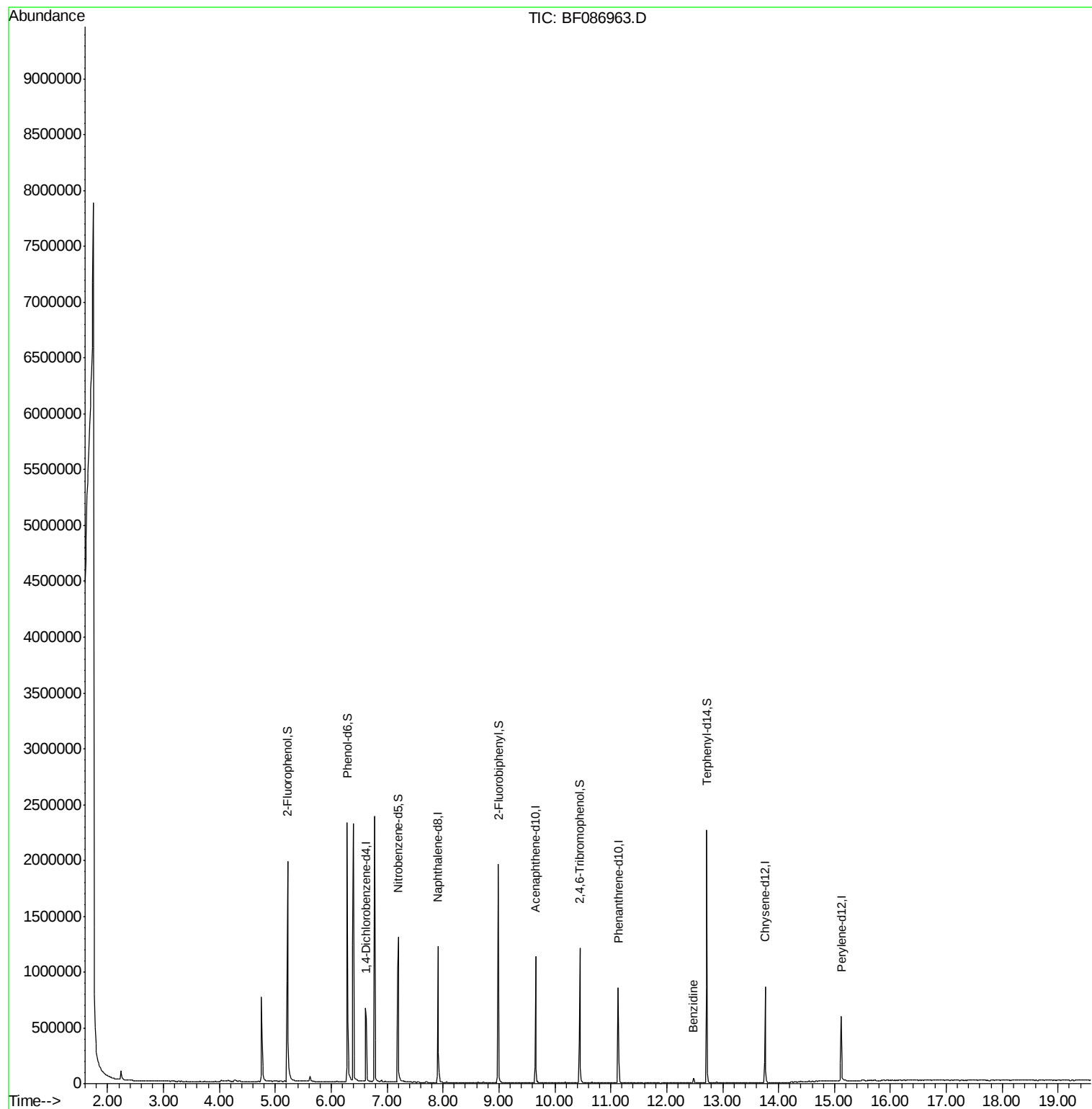
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086963.D  
Acq On : 13 May 2016 9:08  
Operator : UM/SJ  
Sample : H2994-18  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

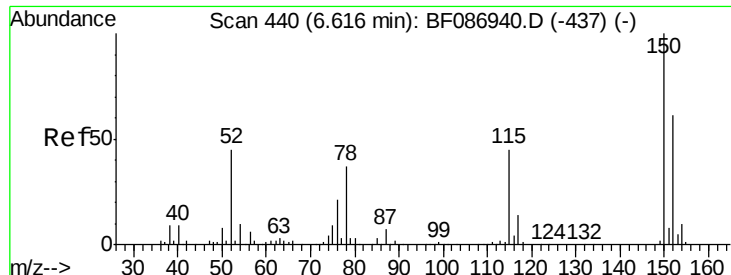
Instrument :  
BNA\_F  
ClientSampleId :  
CH-STA-1720-00(0-2)

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Quant Time: May 13 14:37:16 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 09 16:04:56 2016  
Response via : Initial Calibration

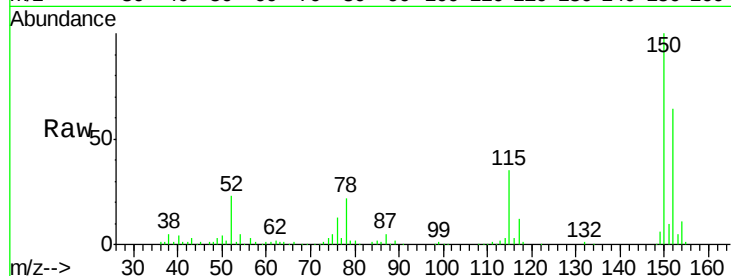




#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng m  
RT: 6.63 min Scan# 441  
Delta R.T. -0.07 min  
Lab File: BF086963.D  
Acq: 13 May 2016 9:08

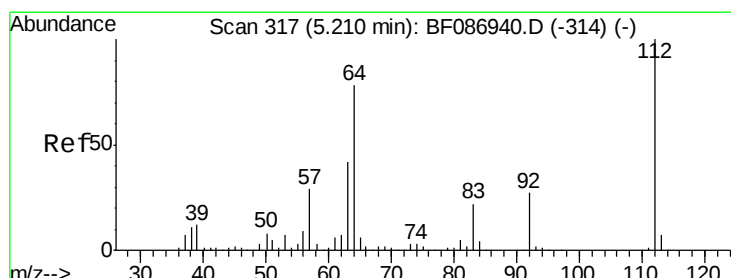
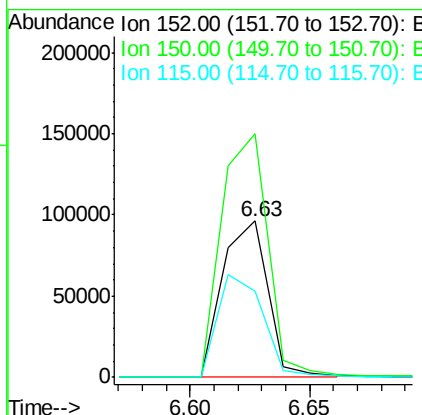
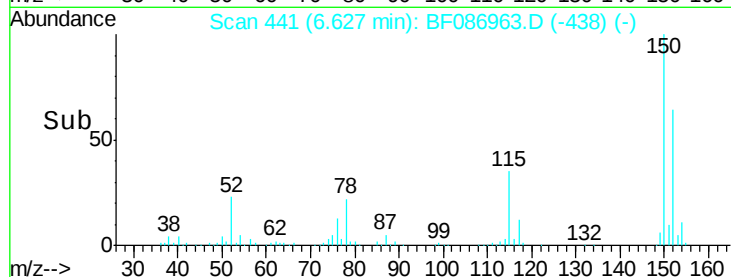
Instrument :  
BNA\_F  
ClientSampleId :  
CH-STA-1720-00(0-2)



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 127636 |       |       |
| 150     | 156.1 | 125.8  | 188.6 |       |
| 115     | 54.9  | 51.5   | 77.3  |       |

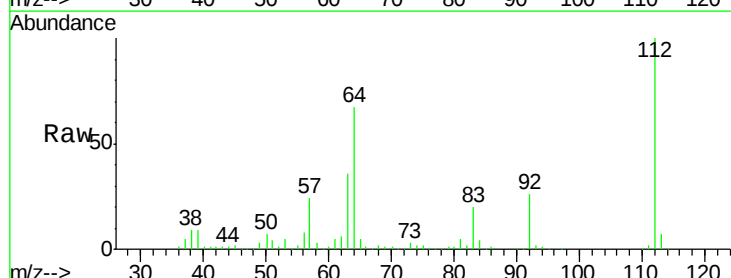
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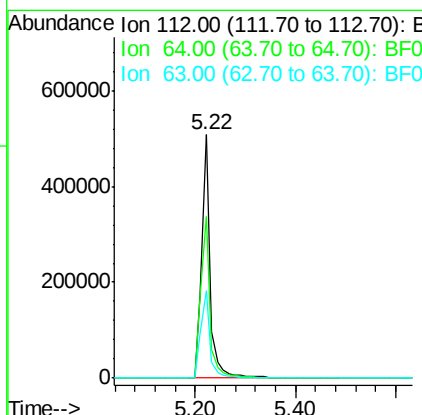
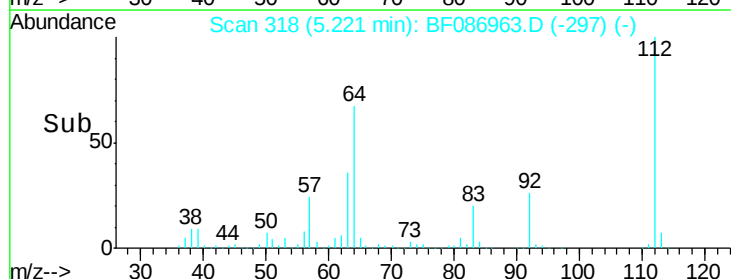


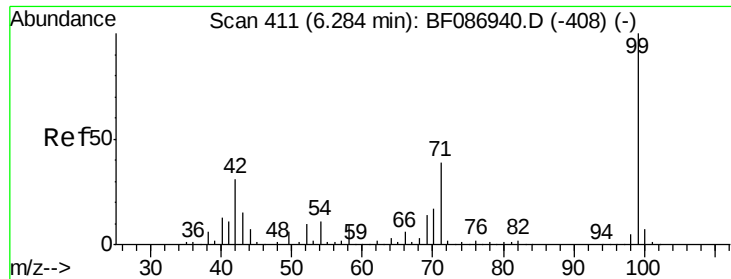
#5

2-Fluorophenol  
Concen: 79.96 ng  
RT: 5.22 min Scan# 318  
Delta R.T. -0.07 min  
Lab File: BF086963.D  
Acq: 13 May 2016 9:08



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 602673 |       |       |
| 64      | 66.6  | 52.1   | 78.1  |       |
| 63      | 35.9  | 25.7   | 38.5  |       |





#7

Phenol-d6

Concen: 70.43 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086963.D

Acq: 13 May 2016 9:08

Instrument :

BNA\_F

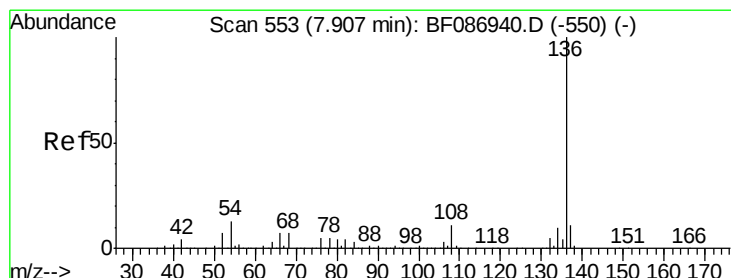
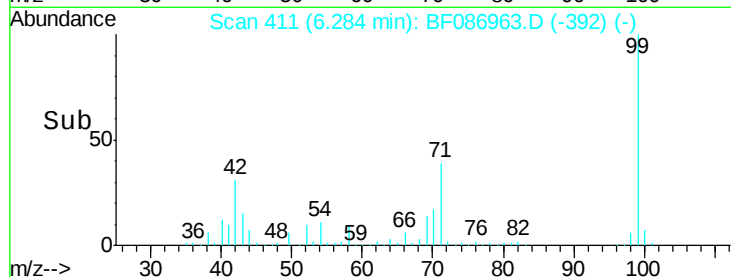
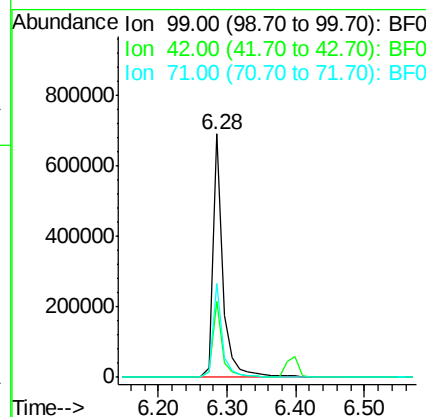
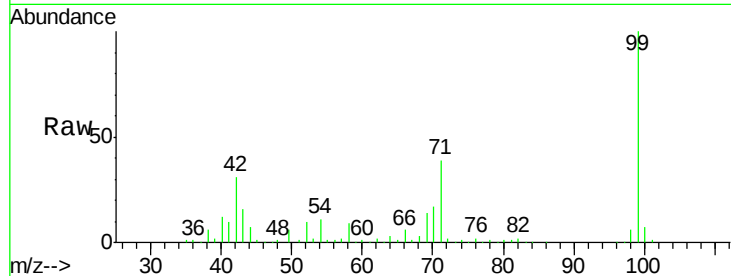
ClientSampleId :

CH-STA-1720-00(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 709402 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 30.9  | 13.6  | 20.4#  |
| 71        | 38.7  | 24.6  | 36.8#  |

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#21

Naphthalene-d8

Concen: 20.00 ng

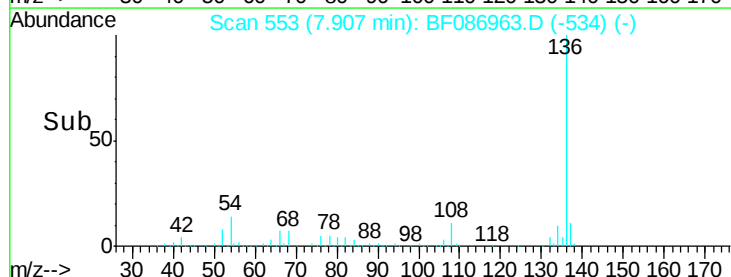
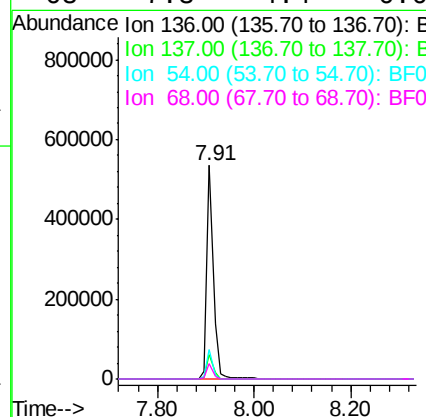
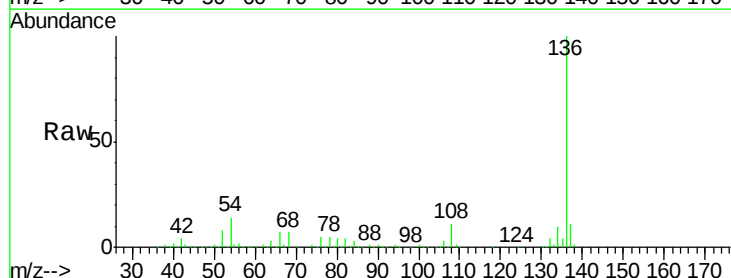
RT: 7.91 min Scan# 553

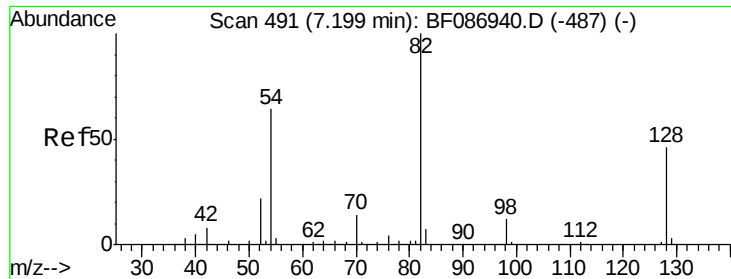
Delta R.T. -0.08 min

Lab File: BF086963.D

Acq: 13 May 2016 9:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 504213 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 8.8   | 13.2   |
| 54        | 13.9  | 5.0   | 7.4#   |
| 68        | 7.3   | 4.4   | 6.6#   |





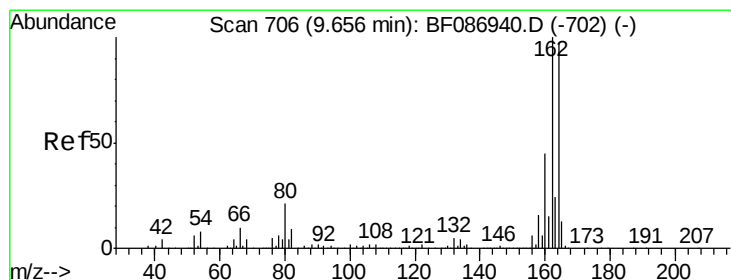
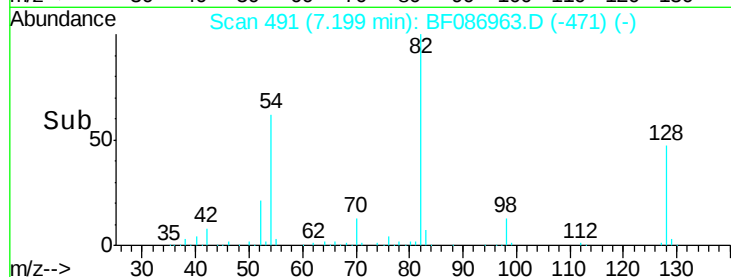
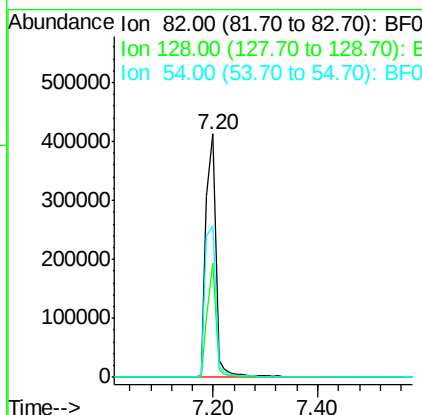
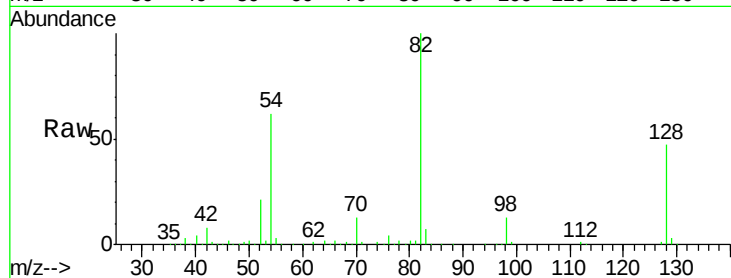
#23  
 Nitrobenzene-d5  
 Concen: 55.15 ng  
 RT: 7.20 min Scan# 491  
 Delta R.T. -0.07 min  
 Lab File: BF086963.D  
 Acq: 13 May 2016 9:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CH-STA-1720-00(0-2)

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 46.9  | 40.6       | 61.0  |
| 54      | 62.1  | 38.1       | 57.1  |

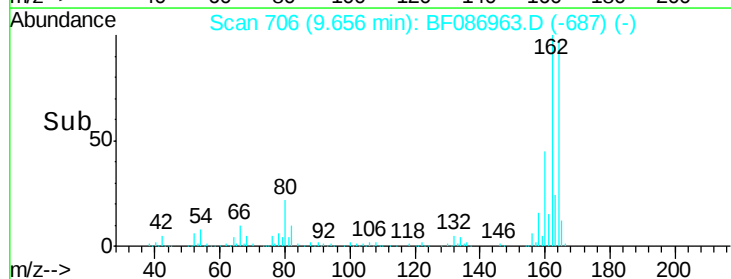
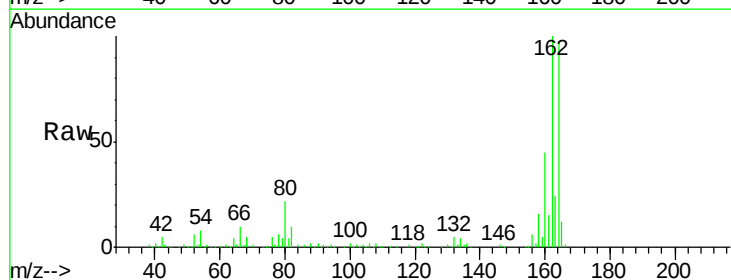
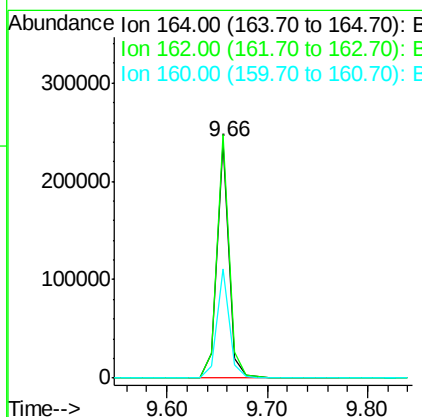
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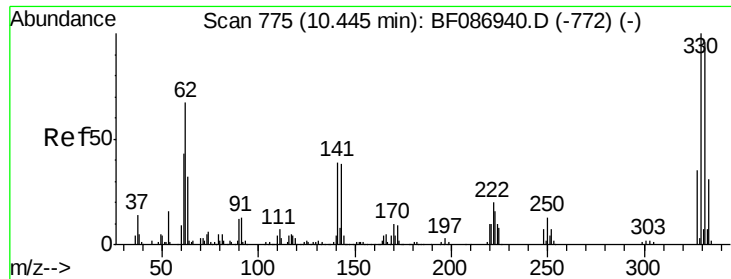
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.66 min Scan# 706  
 Delta R.T. -0.08 min  
 Lab File: BF086963.D  
 Acq: 13 May 2016 9:08

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 164     | 100   |            |       |
| 162     | 103.0 | 82.8       | 124.2 |
| 160     | 46.1  | 36.9       | 55.3  |





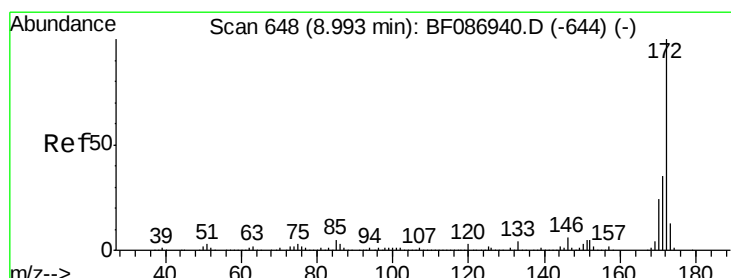
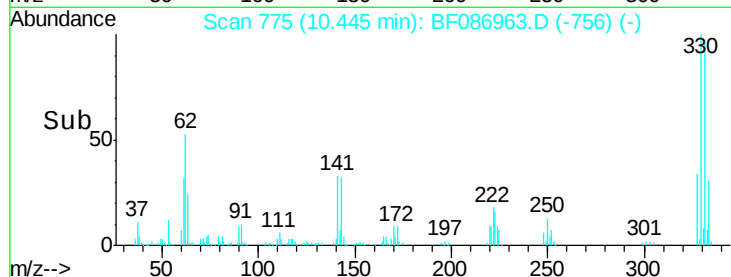
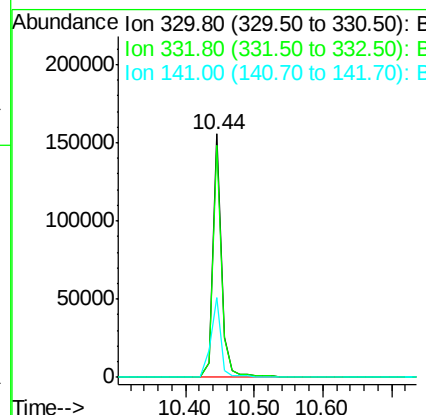
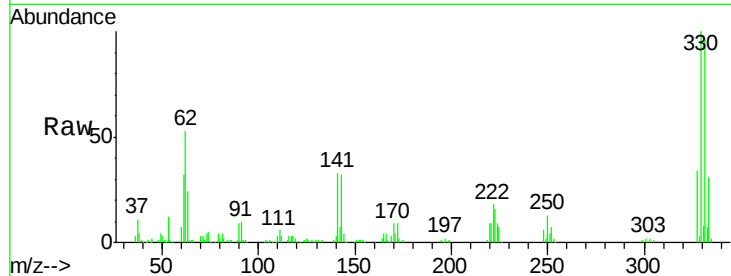
#41  
 2,4,6-Tribromophenol  
 Concen: 66.17 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.08 min  
 Lab File: BF086963.D  
 Acq: 13 May 2016 9:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CH-STA-1720-00(0-2)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 140304 |       |       |
| 332     | 96.3  | 79.0   | 118.4 |       |
| 141     | 37.1  | 31.2   | 46.8  |       |

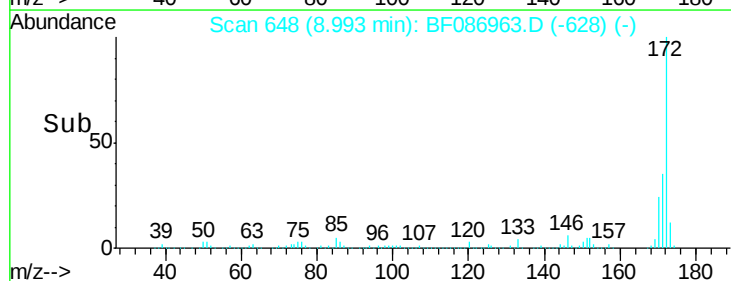
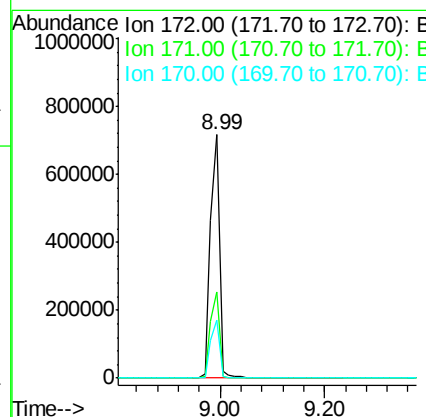
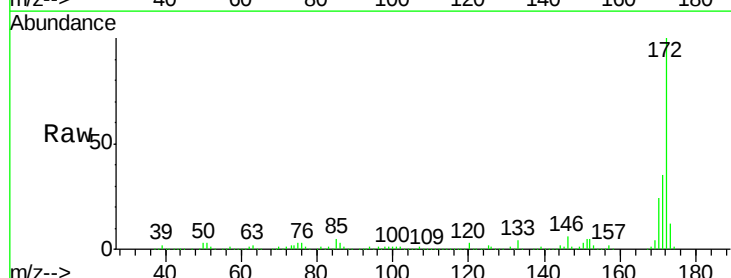
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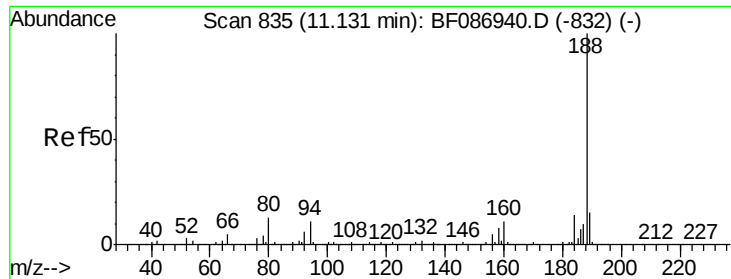
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#44  
 2-Fluorobiphenyl  
 Concen: 71.84 ng  
 RT: 8.99 min Scan# 648  
 Delta R.T. -0.07 min  
 Lab File: BF086963.D  
 Acq: 13 May 2016 9:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 856132 |       |       |
| 171     | 35.3  | 29.0   | 43.6  |       |
| 170     | 23.9  | 19.8   | 29.8  |       |





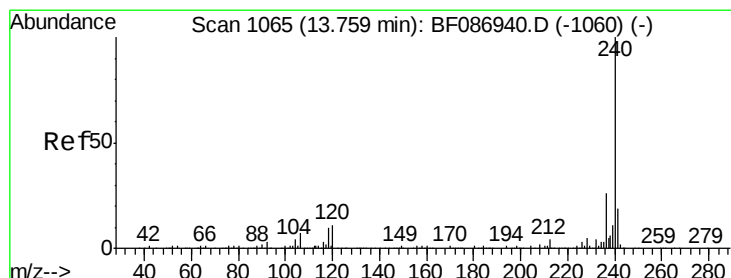
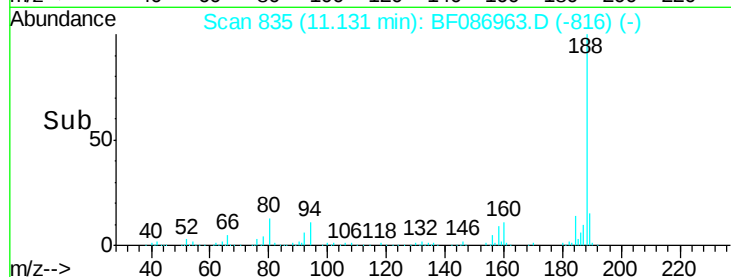
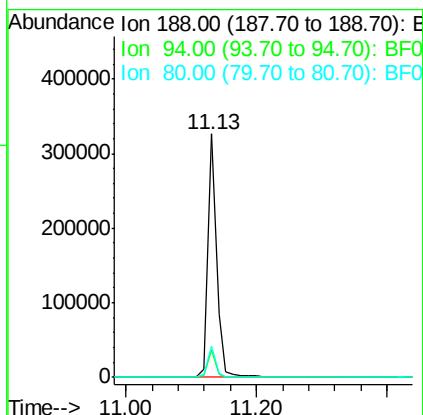
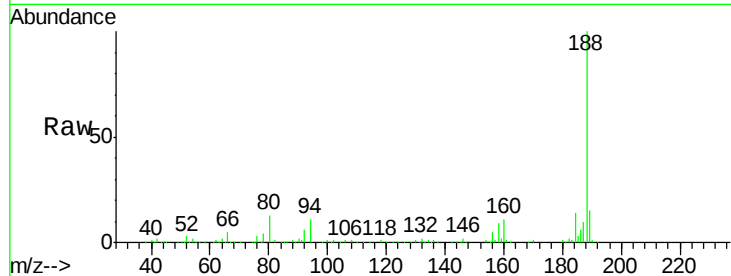
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Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 835  
Delta R.T. -0.08 min  
Lab File: BF086963.D  
Acq: 13 May 2016 9:08

Instrument :  
BNA\_F  
ClientSampleId :  
CH-STA-1720-00(0-2)

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 11.4  | 6.8        | 10.2#      |
| 80      | 12.9  | 7.1        | 10.7#      |

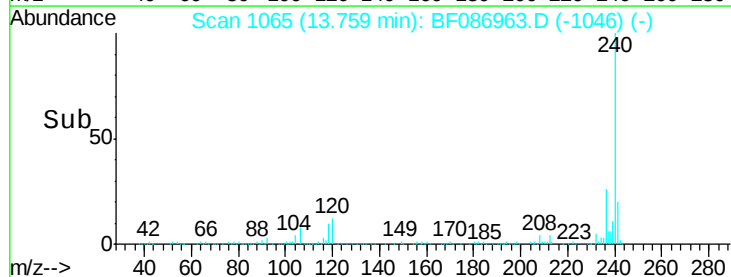
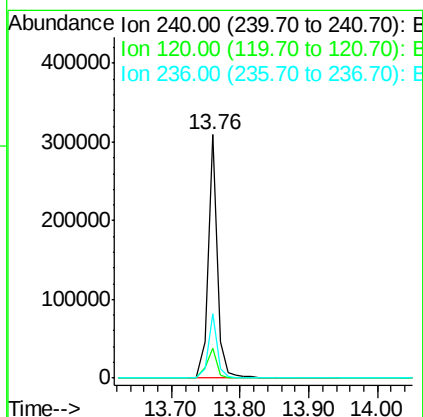
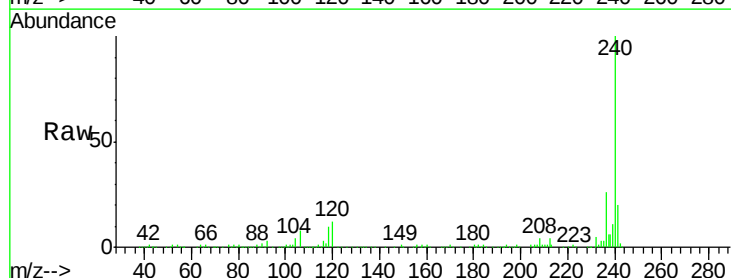
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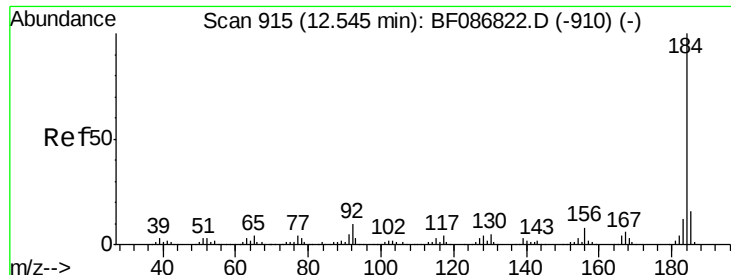
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#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.76 min Scan# 1065  
Delta R.T. -0.08 min  
Lab File: BF086963.D  
Acq: 13 May 2016 9:08

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 12.0  | 11.2       | 16.8       |
| 236     | 26.2  | 21.2       | 31.8       |





#76

Benzidine

Concen: 4.51 ng

RT: 12.48 min Scan# 953

Delta R.T. -0.07 min

Lab File: BF086963.D

Acq: 13 May 2016 9:08

Instrument :

BNA\_F

ClientSampleId :

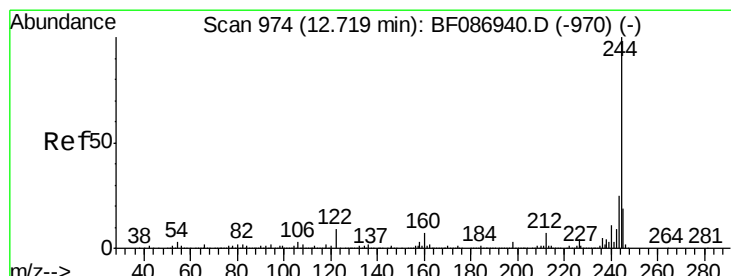
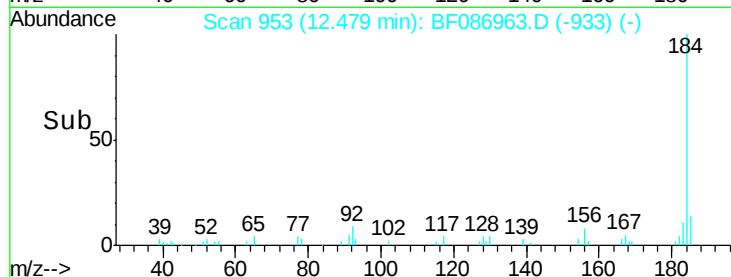
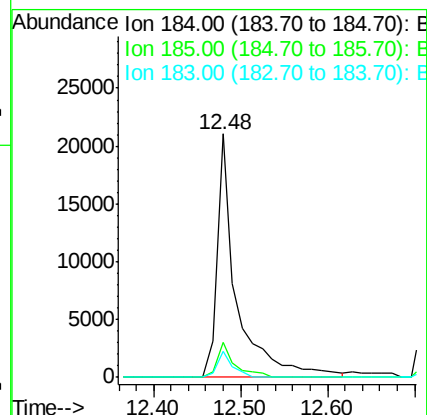
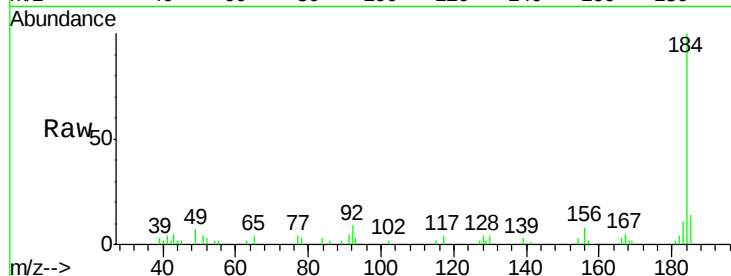
CH-STA-1720-00(0-2)

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 184   | Resp: | 33171 |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 185       | 14.2  | 13.6  | 20.4  |
| 183       | 10.9  | 9.8   | 14.6  |



#78

Terphenyl-d14

Concen: 51.65 ng

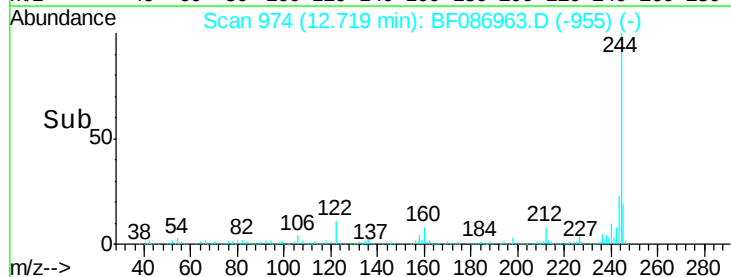
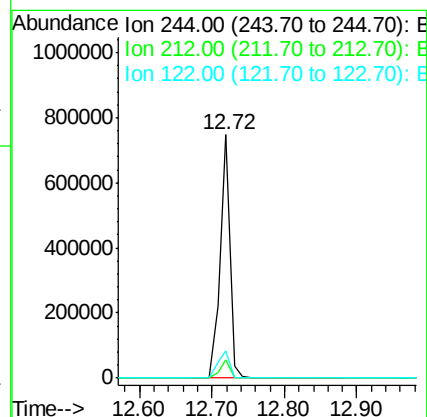
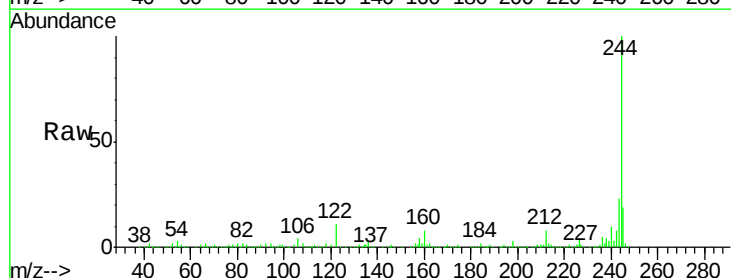
RT: 12.72 min Scan# 974

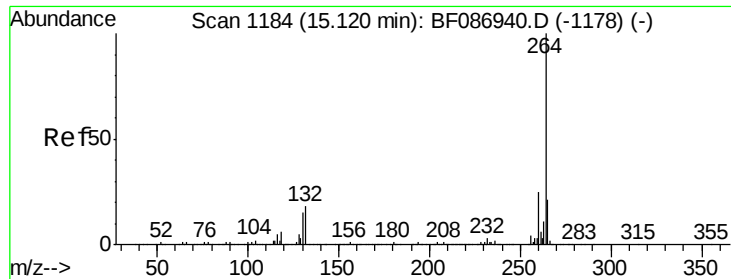
Delta R.T. -0.08 min

Lab File: BF086963.D

Acq: 13 May 2016 9:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 702094 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.5   | 6.2   | 9.2    |
| 122       | 11.1  | 12.0  | 18.0#  |





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.12 min Scan# 1184  
Delta R.T. -0.09 min  
Lab File: BF086963.D  
Acq: 13 May 2016 9:08

Instrument :  
BNA\_F  
ClientSampleId :  
CH-STA-1720-00(0-2)

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 233768 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 24.9 | 19.5  | 29.3   |
| 265       | 22.4 | 17.3  | 25.9   |

Manual Integrations  
APPROVED

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