Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\Data\BF050616\
Data File : BF086790.D
Acq On : 7 May 2016 22:59
Operator : UM/SJ
Sample : H2880-01
Misc :
ALS Vial : 60 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HSR-WC-42-050416

Quant Time: May 08 03:59:15 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat May 07 23:59:39 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.70 | 152 | 152394 | 40.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 7.98 | 136 | 619404 | 40.00 | ng | -0.01 |
| 38) Acenaphthene-d10 | 9.73 | 164 | 294414 | 40.00 | ng | -0.01 |
| 63) Phenanthrene-d10 | 11.22 | 188 | 555813 | 40.00 | ng | 0.00 |
| 75) Chrysene-d12 | 13.85 | 240 | 372216 | 40.00 | ng | 0.00 |
| 86) Perylene-d12 | 15.22 | 264 | 298627 | 40.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.31 | 112 | 729242 | 79.22 | ng | 0.01 |
| 7) Phenol-d6 | 6.36 | 99 | 884452 | 71.33 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.28 | 82 | 712239 | 59.09 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.53 | 330 | 248137 | 86.16 | ng | 0.00 |
| 44) 2-Fluorobiphenyl | 9.07 | 172 | 1267405 | 70.57 | ng | 0.00 |
| 78) Terphenyl-d14 | 12.80 | 244 | 1065769 | 57.87 | ng | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propylamine | 7.28 | 70 | 99294 | 11.72 | ng | # 78 |
| 50) 2,6-Dinitrotoluene | 9.73 | 165 | 37283 | 7.92 | ng | # 21 |
| 56) 2,4-Dinitrotoluene | 9.73 | 165 | 37284 | 6.39 | ng | # 17 |
| 64) 4,6-Dinitro-2-methylphenol | 10.52 | 198 | 410 | 5.38 | ng | # 1 |
| 66) 4-Bromophenyl-phenylether | 10.52 | 248 | 14426 | 2.61 | ng | # 1 |
| 76) Benzidine | 12.80 | 184 | 16555 | 8.48 | ng | 100 |

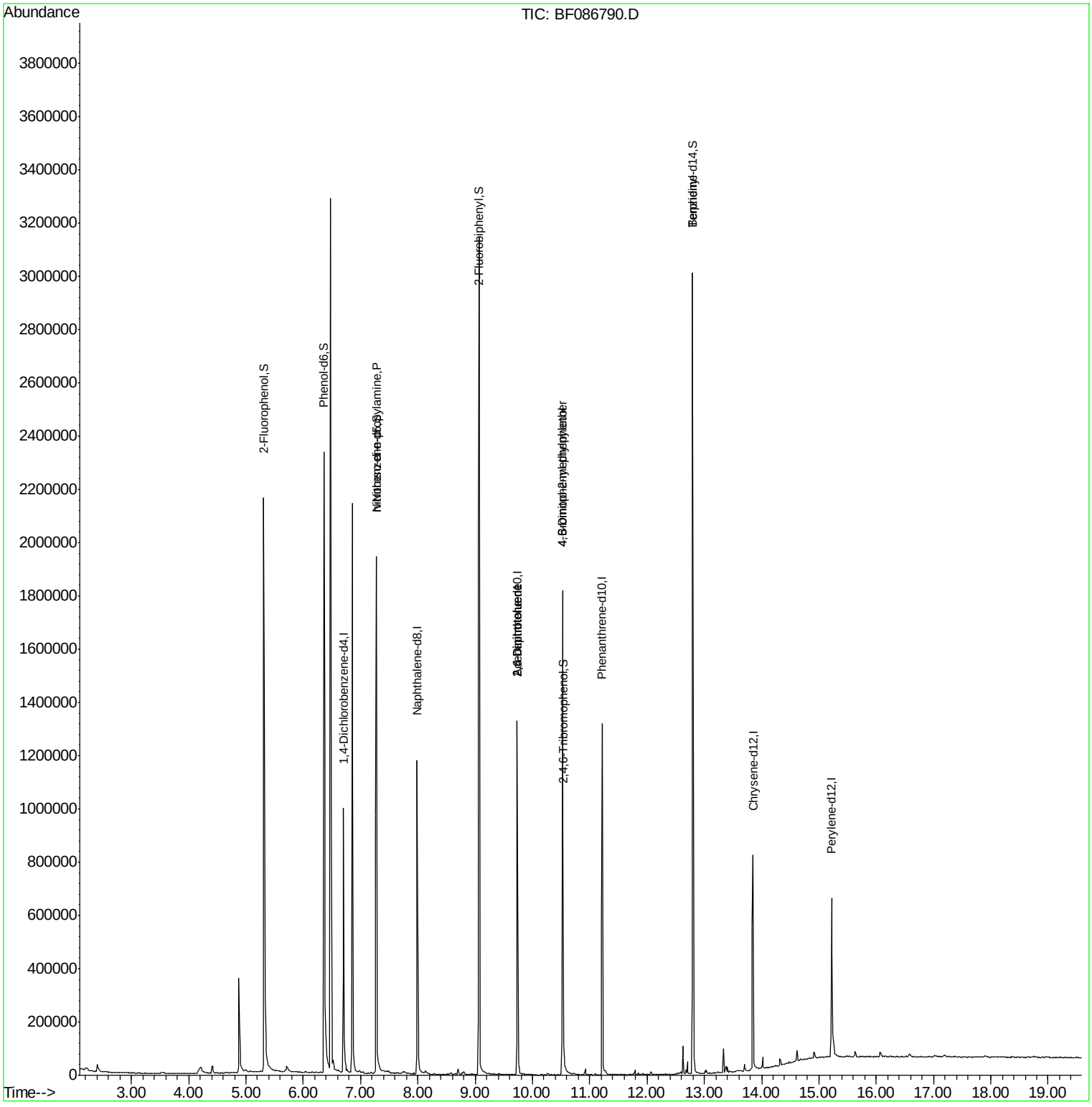
(#) = qualifier out of range (m) = manual integration (+) = signals summed

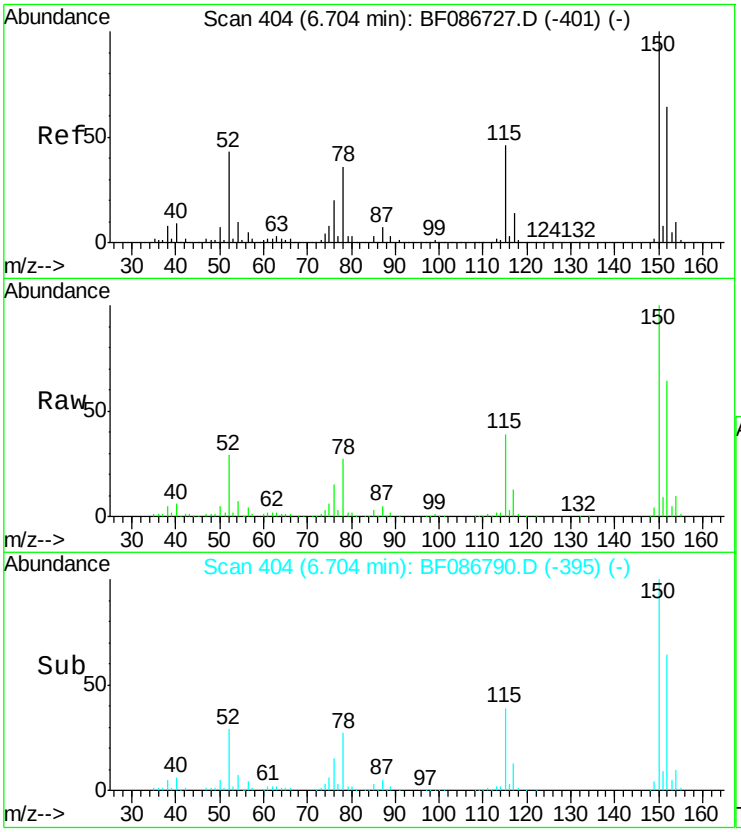
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\Data\BF050616\
Data File : BF086790.D
Acq On : 7 May 2016 22:59
Operator : UM/SJ
Sample : H2880-01
Misc :
ALS Vial : 60 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Quant Time: May 08 03:59:15 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat May 07 23:59:39 2016
Response via : Initial Calibration



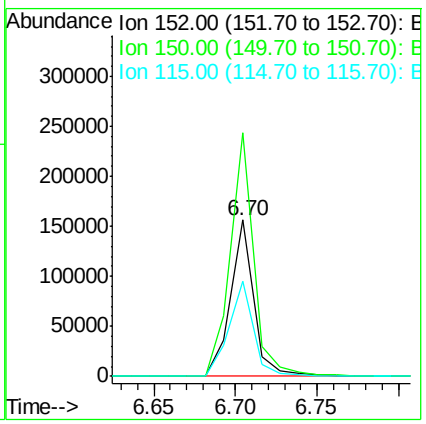


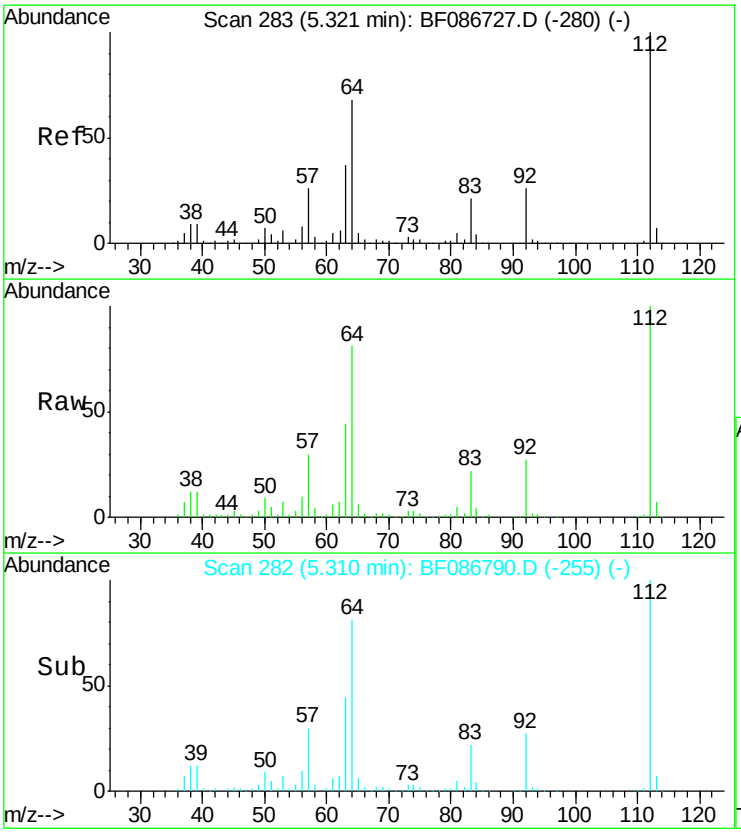

#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ng
RT: 6.70 min Scan# 404
Delta R.T. -0.00 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:152 Resp: 152394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 125.8 | 188.6 |
| 115 | 60.6 | 51.5 | 77.3 |

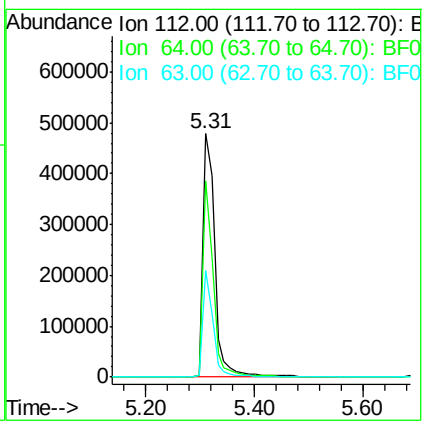


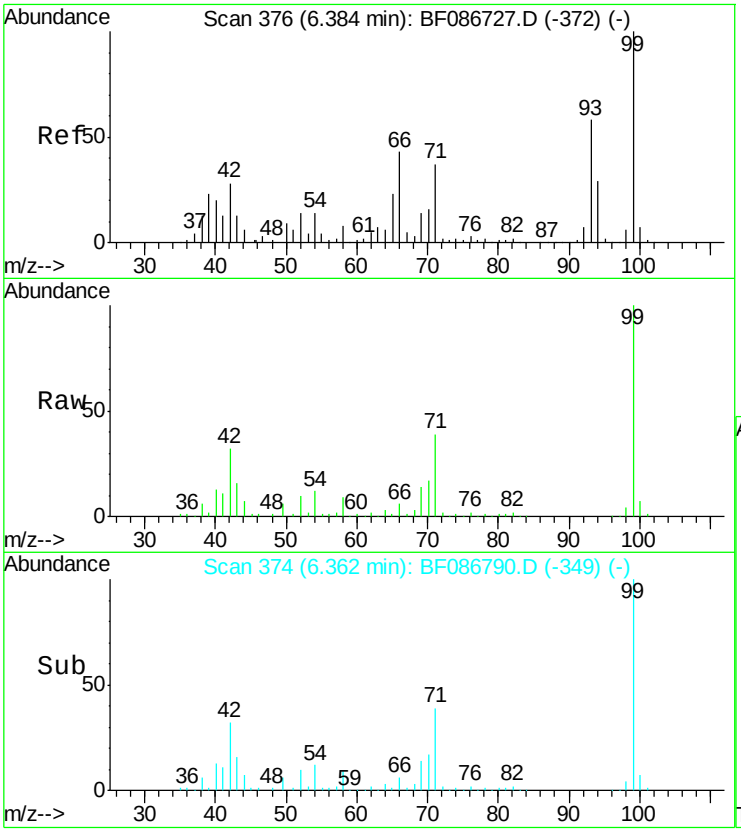




#5
2-Fluorophenol
Concen: 79.22 ng
RT: 5.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:112 Resp: 729242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 80.7 | 52.1 | 78.1# |
| 63 | 44.0 | 25.7 | 38.5# |



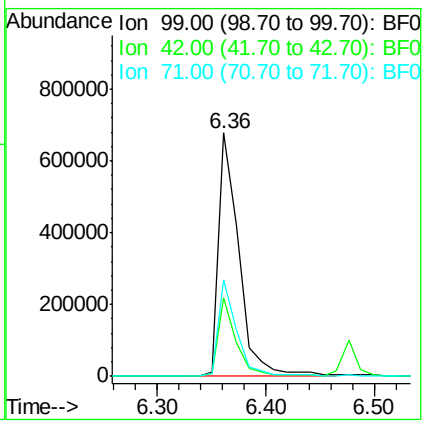


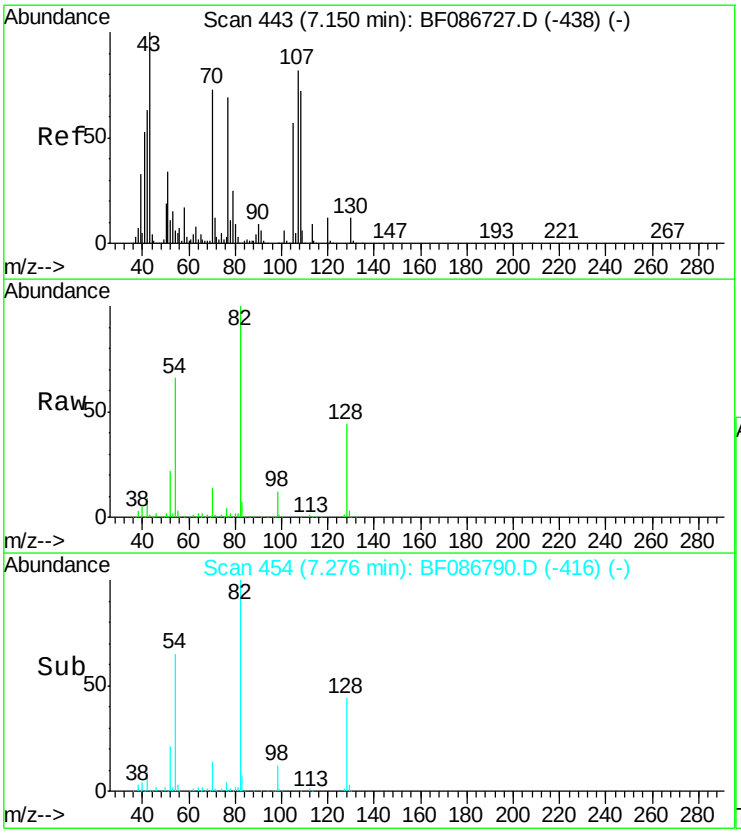

#7
Phenol-d6
Concen: 71.33 ng
RT: 6.36 min Scan# 374
Delta R.T. -0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion: 99 Resp: 884452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.4 | 13.6 | 20.4# |
| 71 | 39.5 | 24.6 | 36.8# |

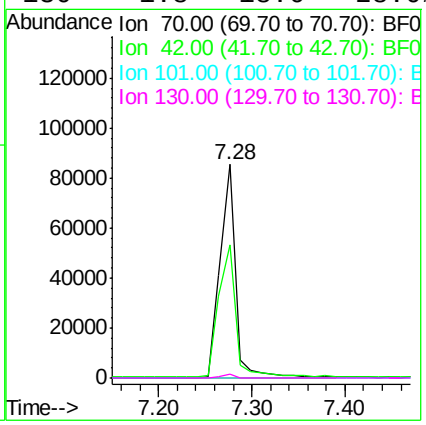


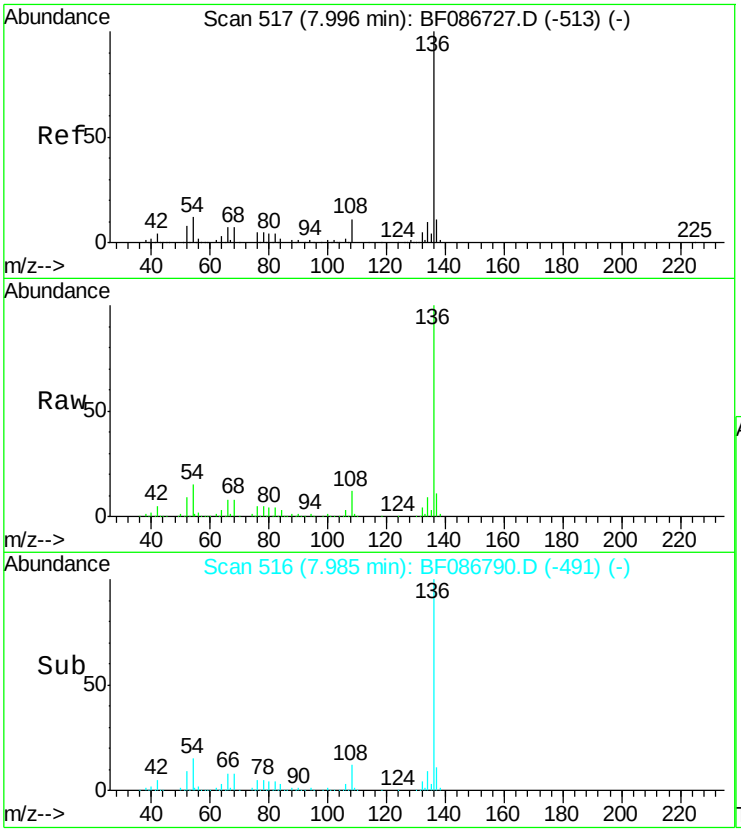




#19
n-Nitroso-di-n-propylamine
Concen: 11.72 ng
RT: 7.28 min Scan# 454
Delta R.T. 0.14 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion: 70 Resp: 99294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 62.2 | 43.1 | 64.7 |
| 101 | 0.0 | 8.1 | 12.1# |
| 130 | 1.8 | 18.6 | 28.0# |



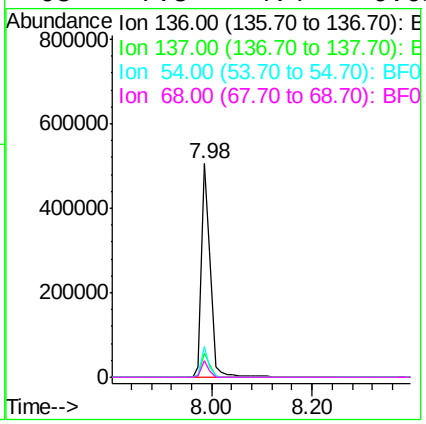


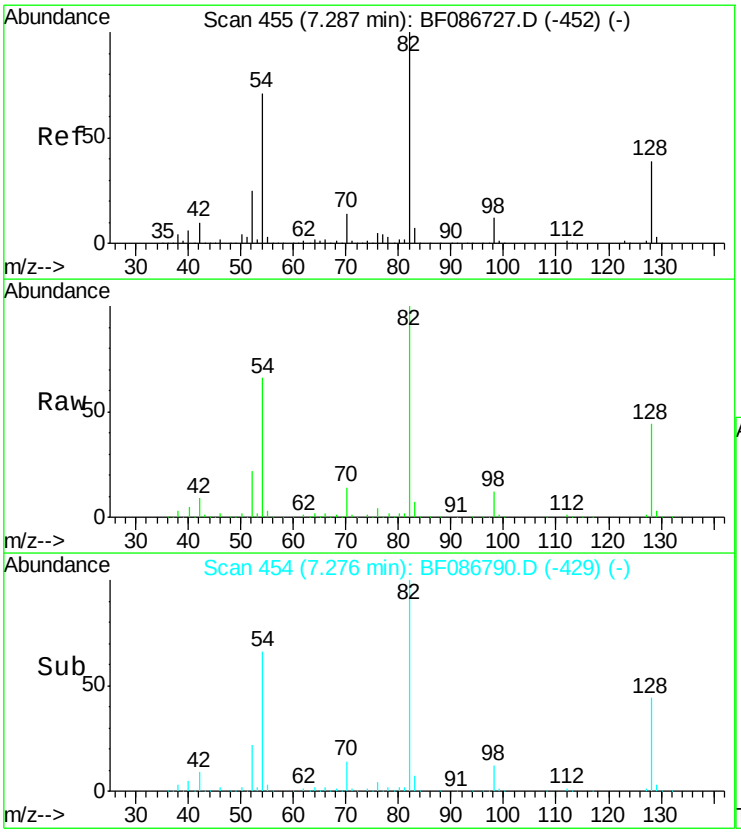

#21
Naphthalene-d8
Concen: 40.00 ng
RT: 7.98 min Scan# 516
Delta R.T. -0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:136 Resp: 619404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.8 | 13.2 |
| 54 | 14.7 | 5.0 | 7.4# |
| 68 | 7.8 | 4.4 | 6.6# |

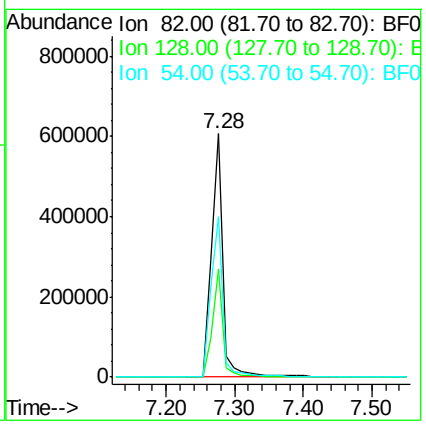


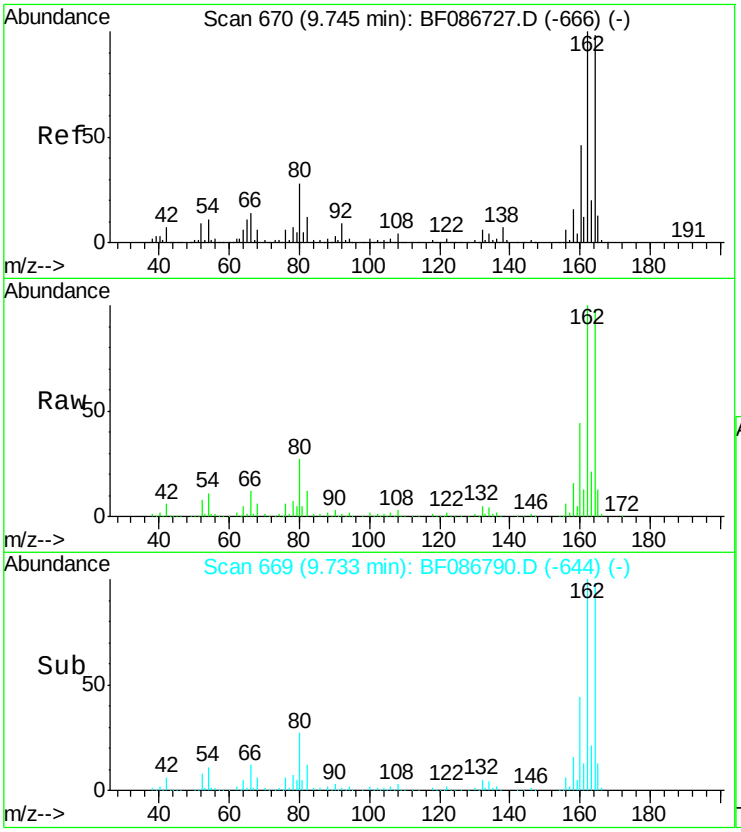




#23
Nitrobenzene-d5
Concen: 59.09 ng
RT: 7.28 min Scan# 454
Delta R.T. -0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion: 82 Resp: 712239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.1 | 40.6 | 61.0 |
| 54 | 65.8 | 38.1 | 57.1# |



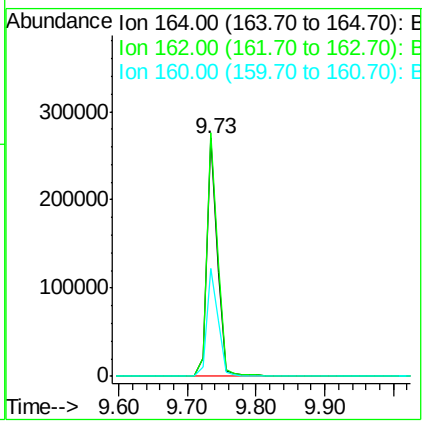


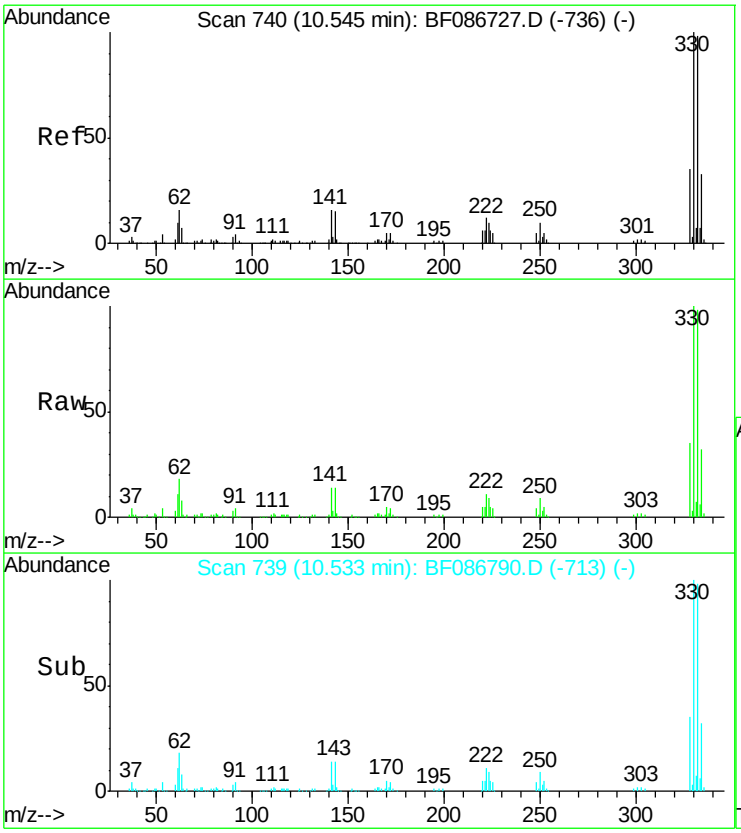

#38
Acenaphthene-d10
Concen: 40.00 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:164 Resp: 294414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.1 | 82.8 | 124.2 |
| 160 | 45.2 | 36.9 | 55.3 |

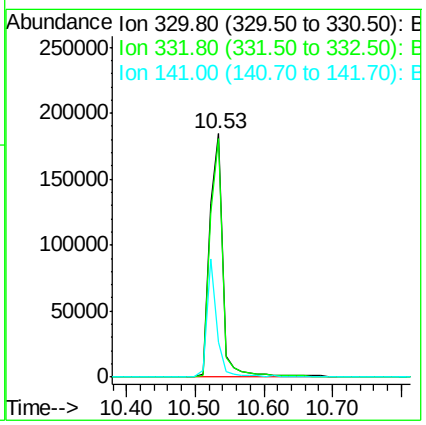


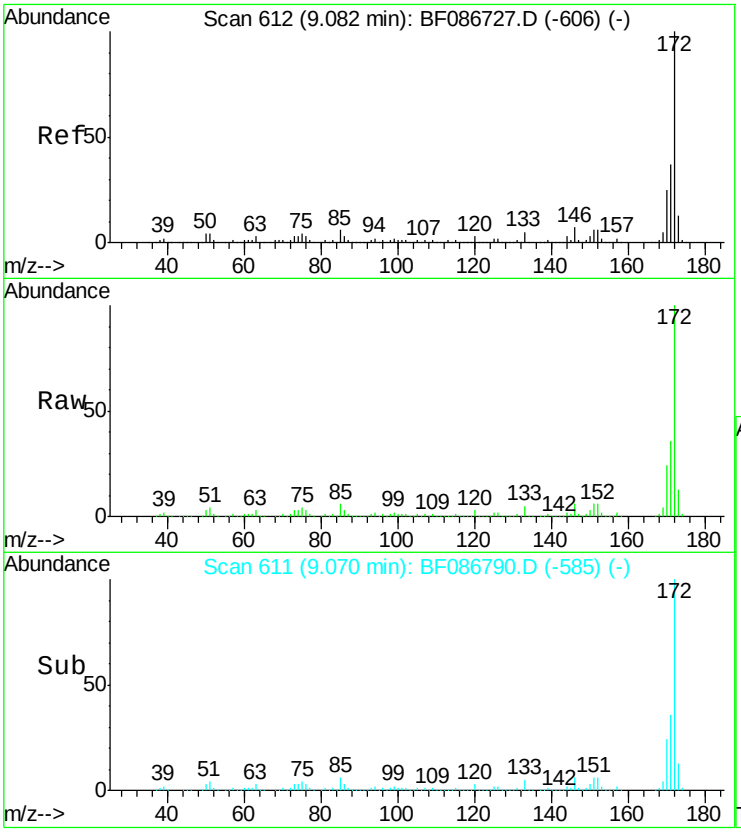




#41
2,4,6-Tribromophenol
Concen: 86.16 ng
RT: 10.53 min Scan# 739
Delta R.T. -0.00 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:330 Resp: 248137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 79.0 | 118.4 |
| 141 | 37.4 | 31.2 | 46.8 |



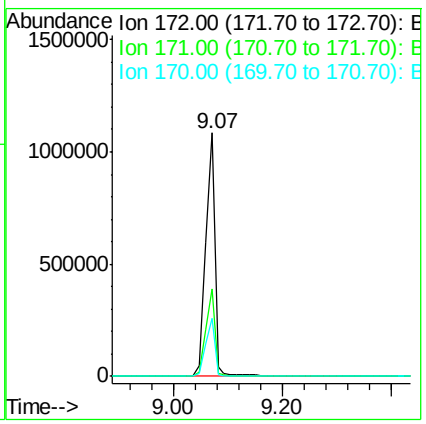


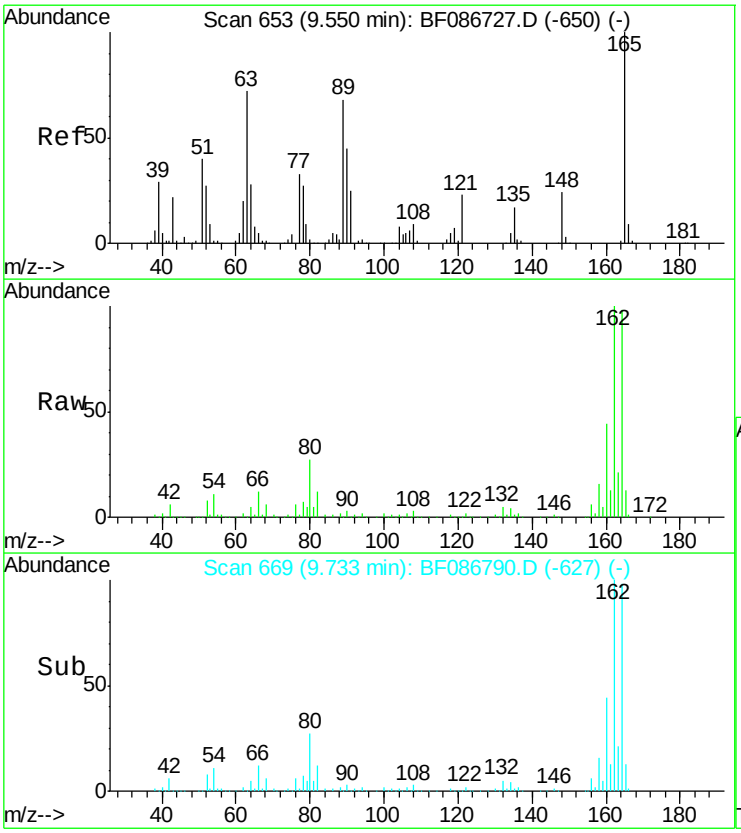

#44
2-Fluorobiphenyl
Concen: 70.57 ng
RT: 9.07 min Scan# 611
Delta R.T. -0.00 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:172 Resp: 1267405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 29.0 | 43.6 |
| 170 | 24.0 | 19.8 | 29.8 |

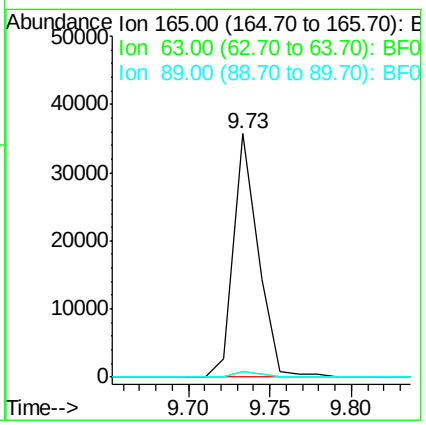


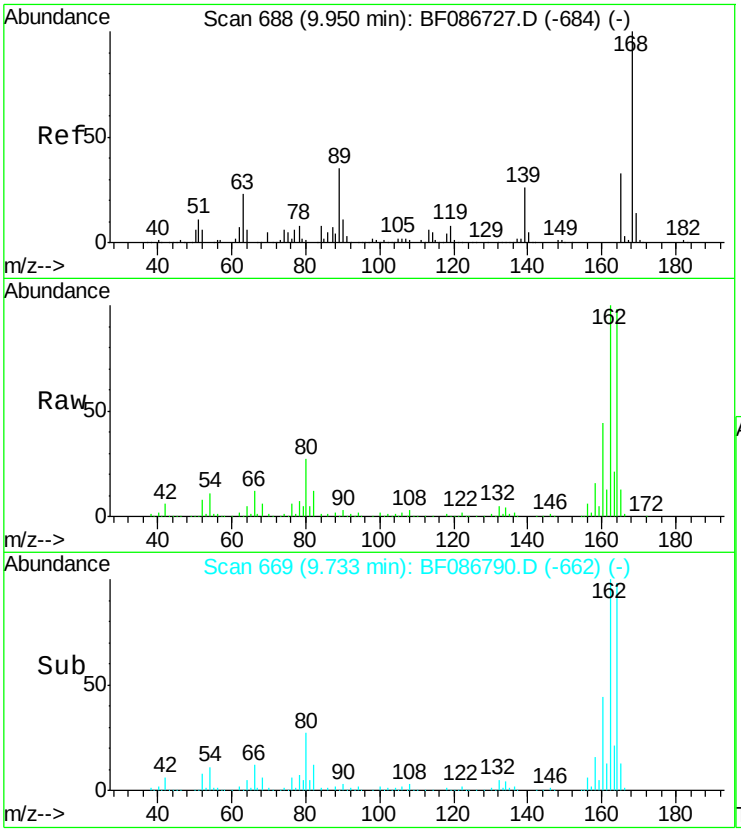




#50
2,6-Dinitrotoluene
Concen: 7.92 ng
RT: 9.73 min Scan# 669
Delta R.T. 0.18 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:165 Resp: 37283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 2.4 | 51.8 | 77.8# |
| 89 | 2.2 | 50.7 | 76.1# |



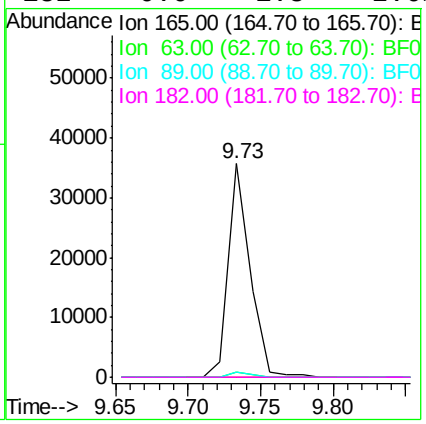


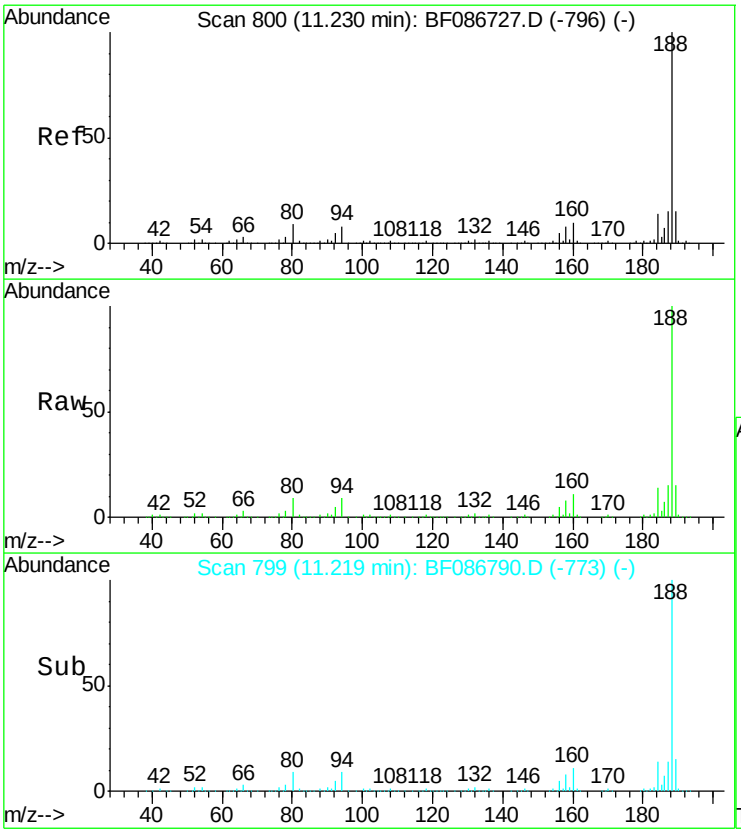

#56
2,4-Dinitrotoluene
Concen: 6.39 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.22 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:165 Resp: 37284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 2.4 | 44.3 | 66.5# |
| 89 | 2.2 | 70.0 | 105.0# |
| 182 | 0.0 | 1.8 | 2.6# |

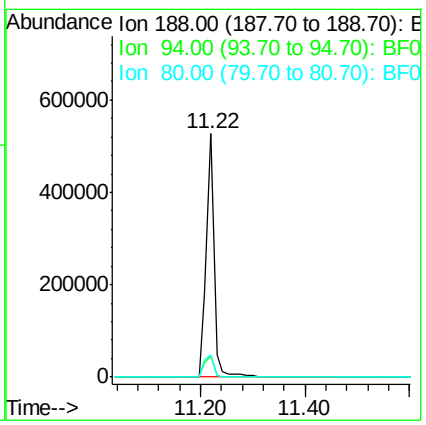


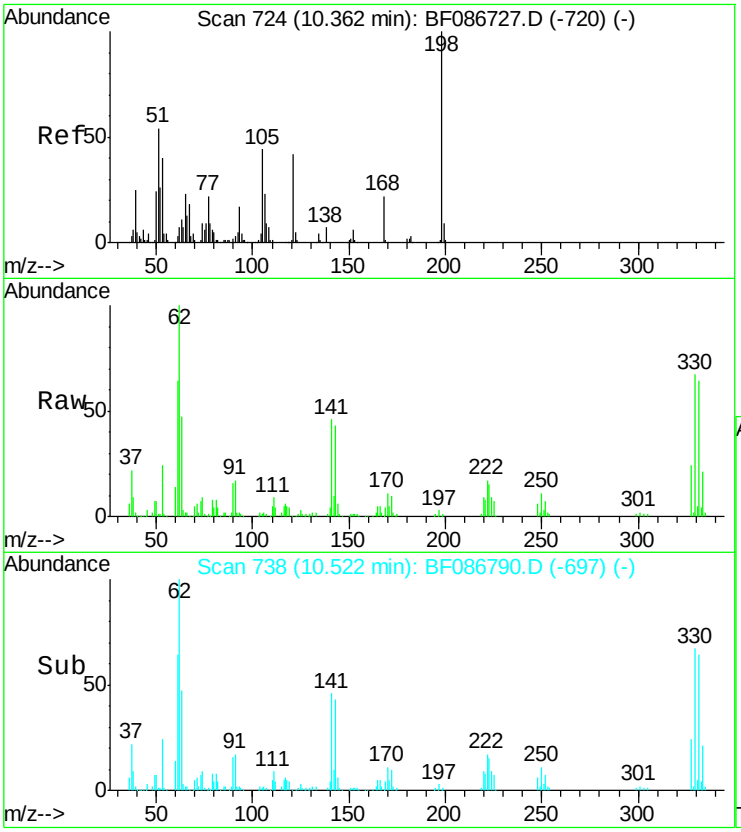




#63
Phenanthrene-d10
Concen: 40.00 ng
RT: 11.22 min Scan# 799
Delta R.T. -0.00 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:188 Resp: 555813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.8 | 6.8 | 10.2 |
| 80 | 9.1 | 7.1 | 10.7 |



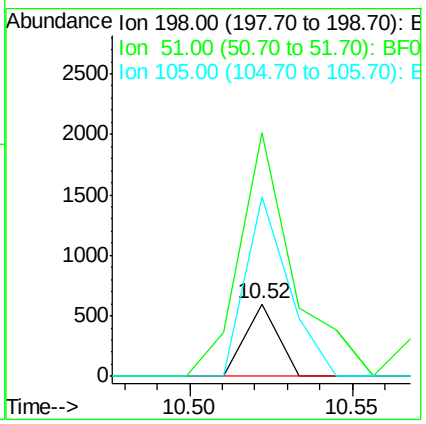


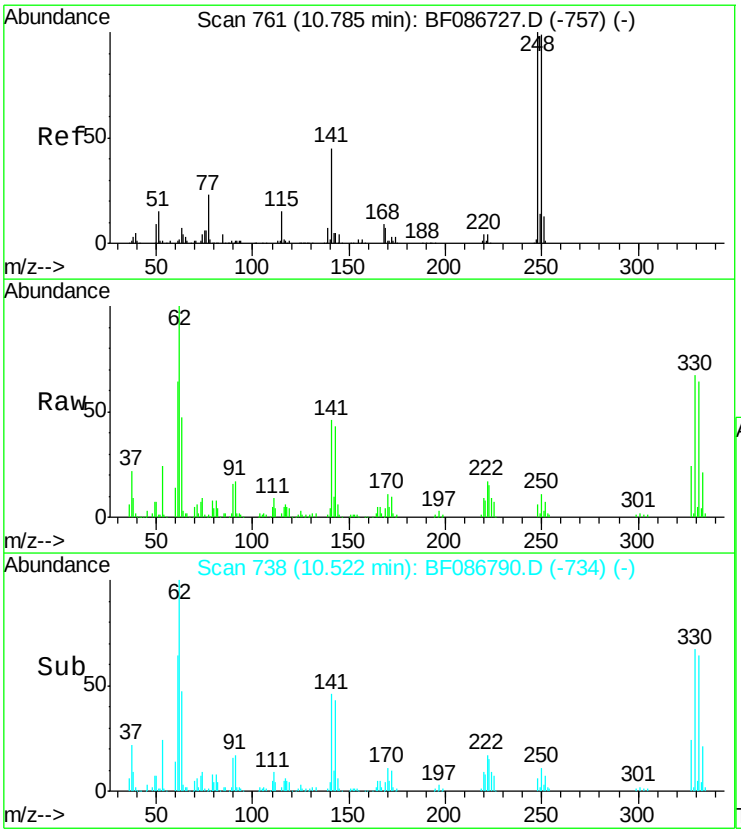

#64
4,6-Dinitro-2-methylphenol
Concen: 5.38 ng
RT: 10.52 min Scan# 738
Delta R.T. 0.17 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:198 Resp: 410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 337.0 | 20.5 | 60.5# |
| 105 | 249.2 | 24.5 | 64.5# |

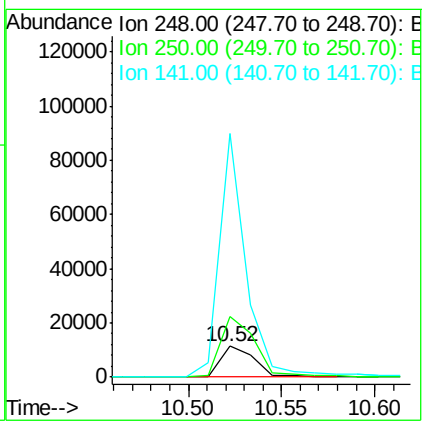


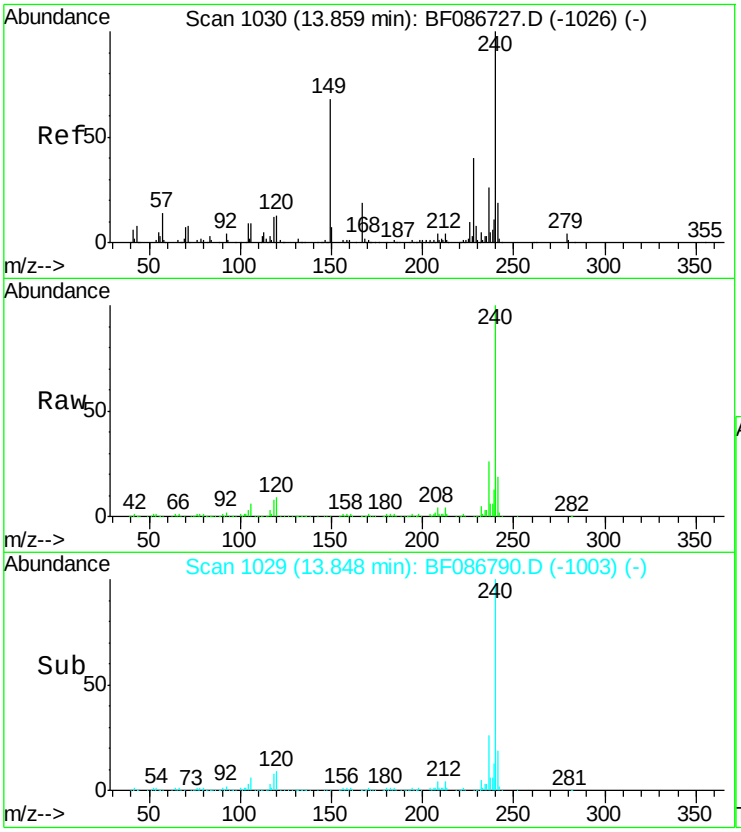




#66
4-Bromophenyl-phenylether
Concen: 2.61 ng
RT: 10.52 min Scan# 738
Delta R.T. -0.25 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:248 Resp: 14426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 198.1 | 78.6 | 117.8# |
| 141 | 797.5 | 76.0 | 114.0# |



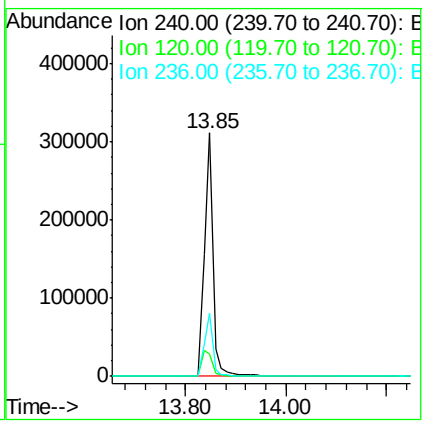


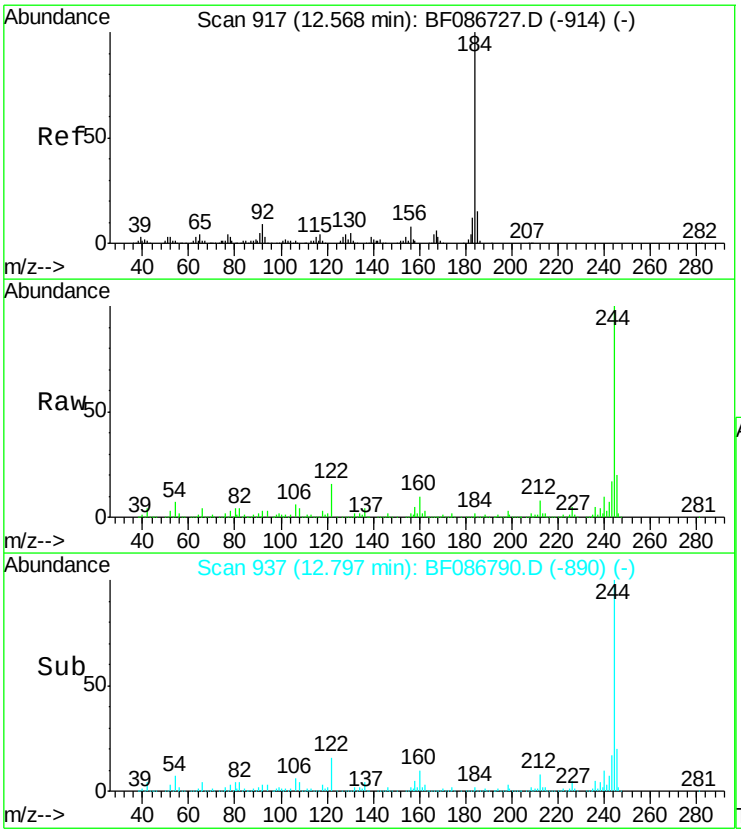

#75
Chrysene-d12
Concen: 40.00 ng
RT: 13.85 min Scan# 1029
Delta R.T. -0.00 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:240 Resp: 372216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.9 | 11.2 | 16.8# |
| 236 | 25.9 | 21.2 | 31.8 |

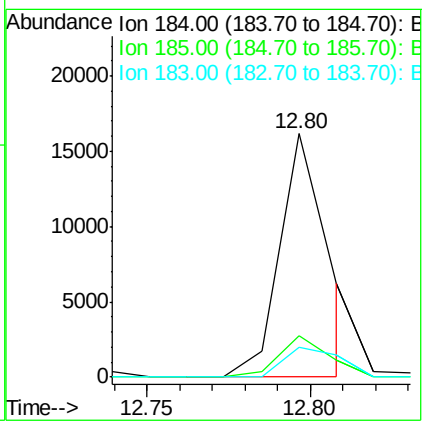


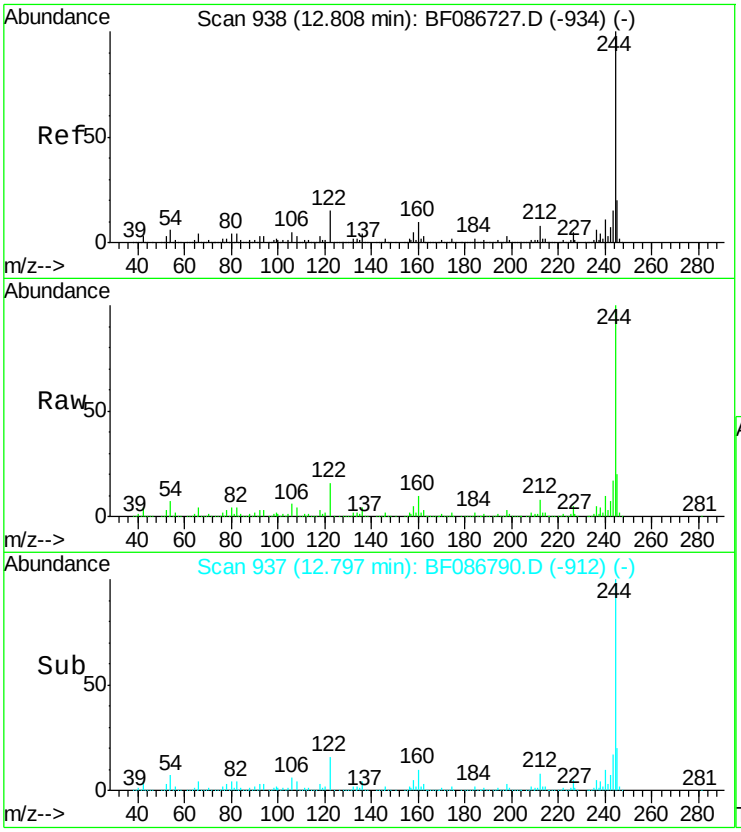




#76
Benzidine
Concen: 8.48 ng
RT: 12.80 min Scan# 937
Delta R.T. 0.24 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:184 Resp: 16555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 17.0 | 13.6 | 20.4 |
| 183 | 12.4 | 9.8 | 14.6 |



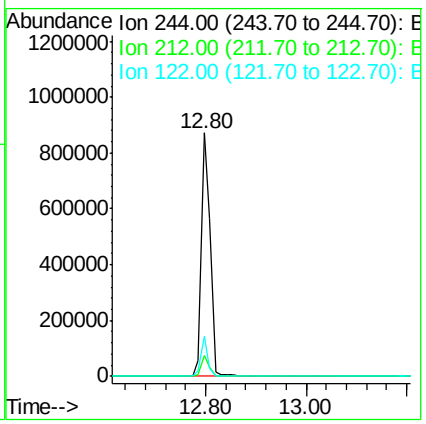


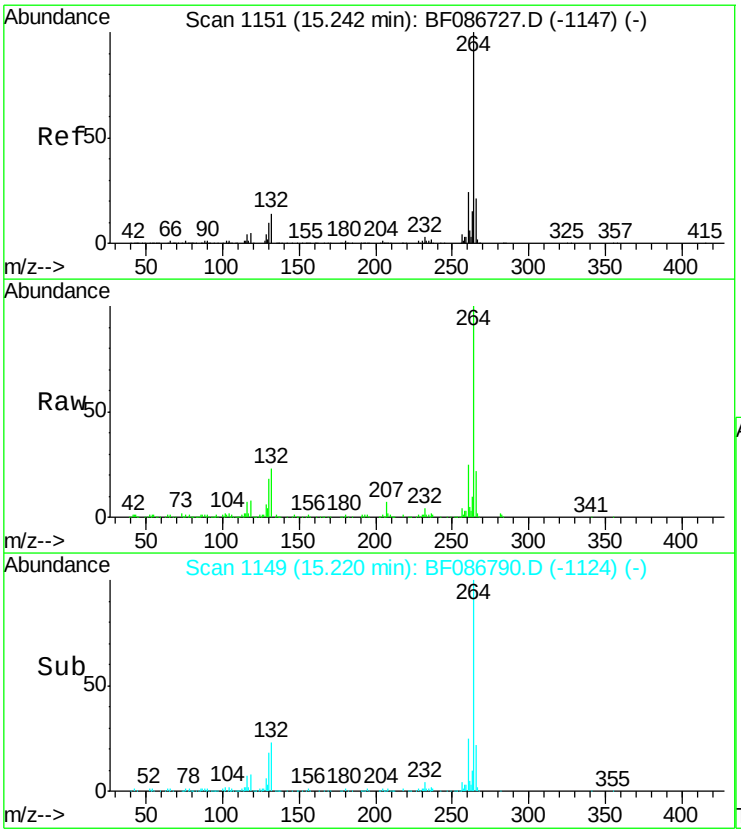

#78
Terphenyl-d14
Concen: 57.87 ng
RT: 12.80 min Scan# 937
Delta R.T. -0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

**Instrument :**
BNA_F
**ClientSampleId :**
HSR-WC-42-050416

Tgt Ion:244 Resp: 1065769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.4 | 6.2 | 9.2 |
| 122 | 16.2 | 12.0 | 18.0 |




#86
Perylene-d12
Concen: 40.00 ng
RT: 15.22 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF086790.D
Acq: 7 May 2016 22:59

Tgt Ion:264 Resp: 298627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.6 | 19.5 | 29.3 |
| 265 | 22.0 | 17.3 | 25.9 |