Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052416\
Data File : BF087363.D
Acq On : 25 May 2016 5:18
Operator : UM/SJ
Sample : H3191-15
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CHS-STA-1690(0-4)

Quant Time: May 25 06:47:26 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 25 00:58:25 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.56 | 152 | 110008 | 20.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 9.59 | 136 | 442408 | 20.00 | ng | -0.01 |
| 38) Acenaphthene-d10 | 12.41 | 164 | 214635 | 20.00 | ng | -0.01 |
| 63) Phenanthrene-d10 | 14.82 | 188 | 434627 | 20.00 | ng | 0.00 |
| 75) Chrysene-d12 | 18.50 | 240 | 367759 | 20.00 | ng | -0.01 |
| 86) Perylene-d12 | 20.17 | 264 | 266462 | 20.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.48 | 112 | 909473 | 145.27 | ng | 0.02 |
| 7) Phenol-d6 | 7.10 | 99 | 1085974 | 128.37 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 8.47 | 82 | 849611 | 96.79 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 13.71 | 330 | 337037 | 163.41 | ng | -0.01 |
| 44) 2-Fluorobiphenyl | 11.37 | 172 | 1477724 | 97.06 | ng | -0.01 |
| 78) Terphenyl-d14 | 17.17 | 244 | 1461818 | 84.51 | ng | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 31) Naphthalene | 9.62 | 128 | 735497 | 33.18 | ng | 100 |
| 37) 2-Methylnaphthalene | 10.76 | 142 | 34057 | 2.46 | ng | 96 |

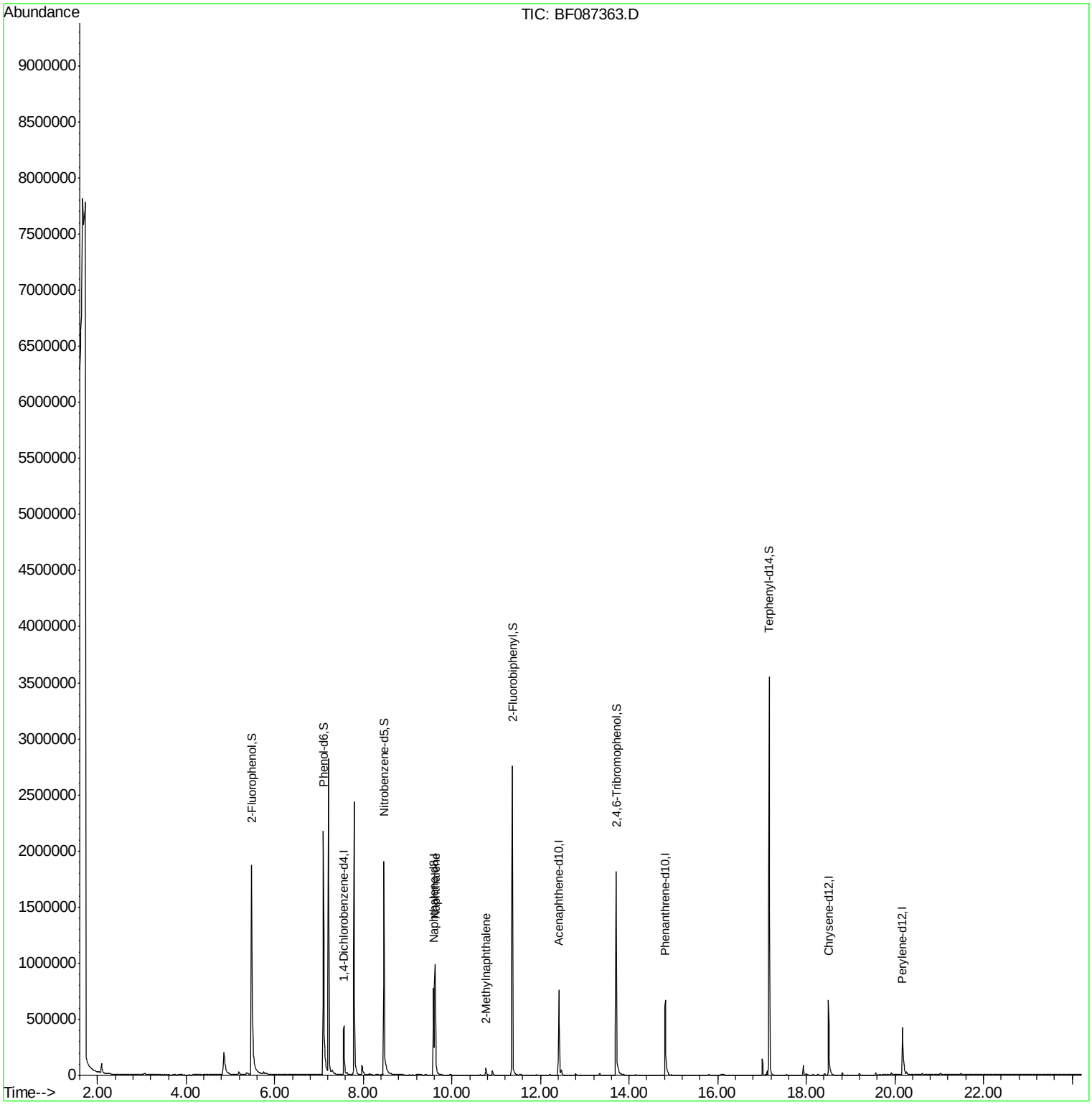
(#) = qualifier out of range (m) = manual integration (+) = signals summed

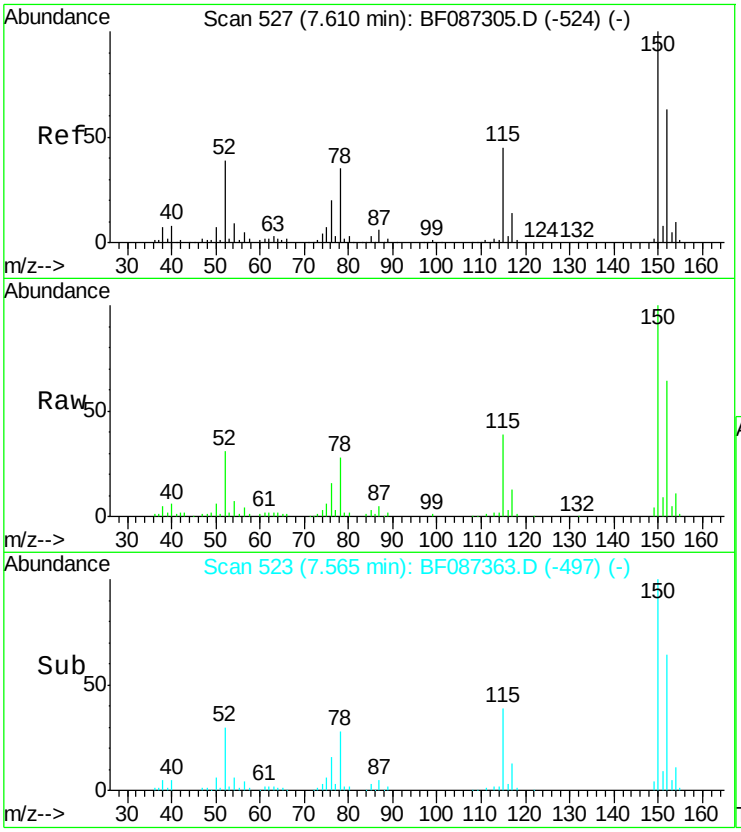
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052416\
Data File : BF087363.D
Acq On : 25 May 2016 5:18
Operator : UM/SJ
Sample : H3191-15
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Quant Time: May 25 06:47:26 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 25 00:58:25 2016
Response via : Initial Calibration



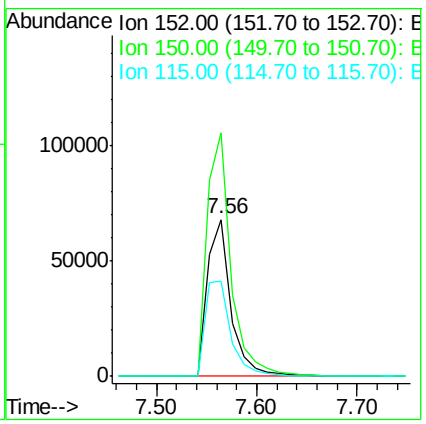


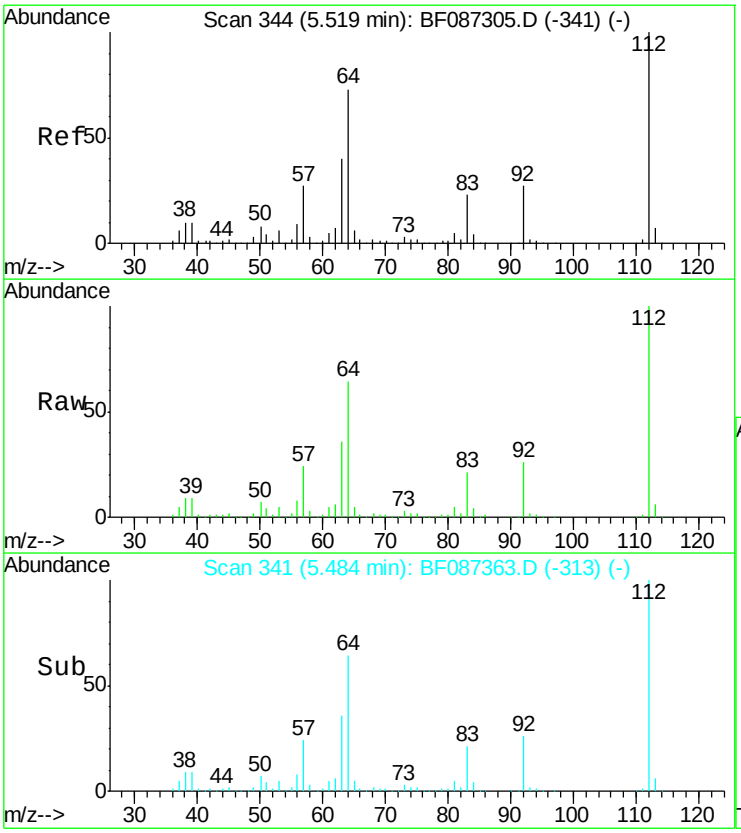

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.56 min Scan# 523
Delta R.T. -0.00 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion:152 Resp: 110008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.3 | 125.8 | 188.6 |
| 115 | 60.9 | 51.5 | 77.3 |

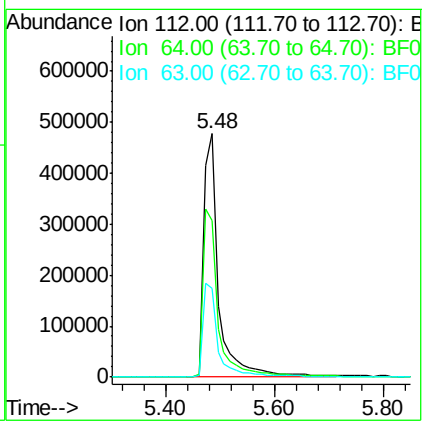


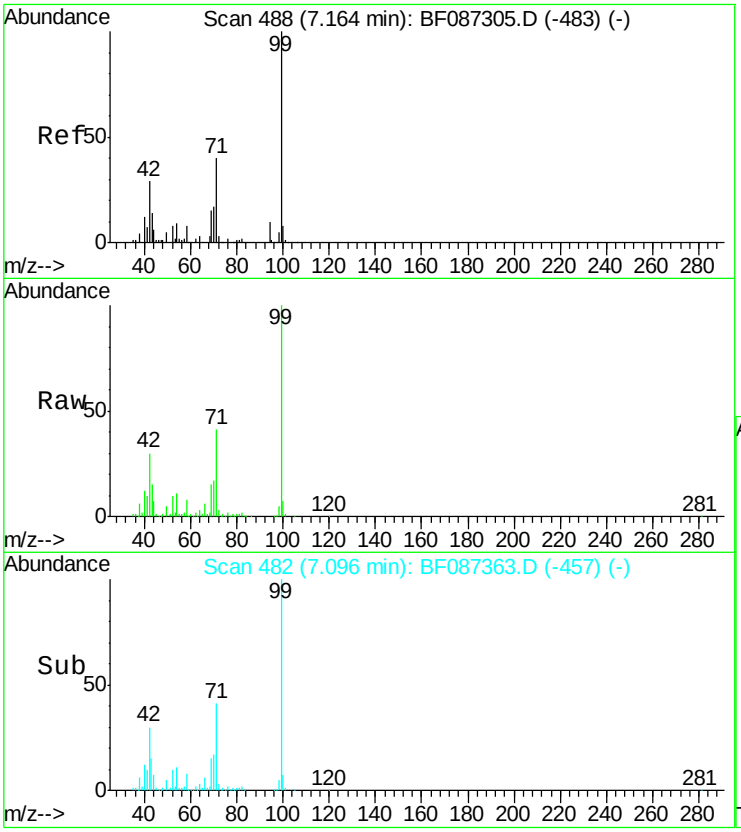




#5
2-Fluorophenol
Concen: 145.27 ng
RT: 5.48 min Scan# 341
Delta R.T. 0.02 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:112 Resp: 909473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 64.2 | 52.1 | 78.1 |
| 63 | 36.3 | 25.7 | 38.5 |



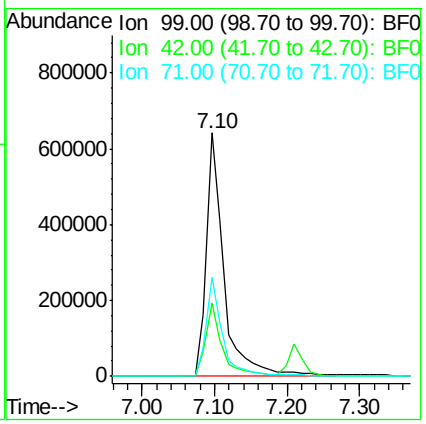


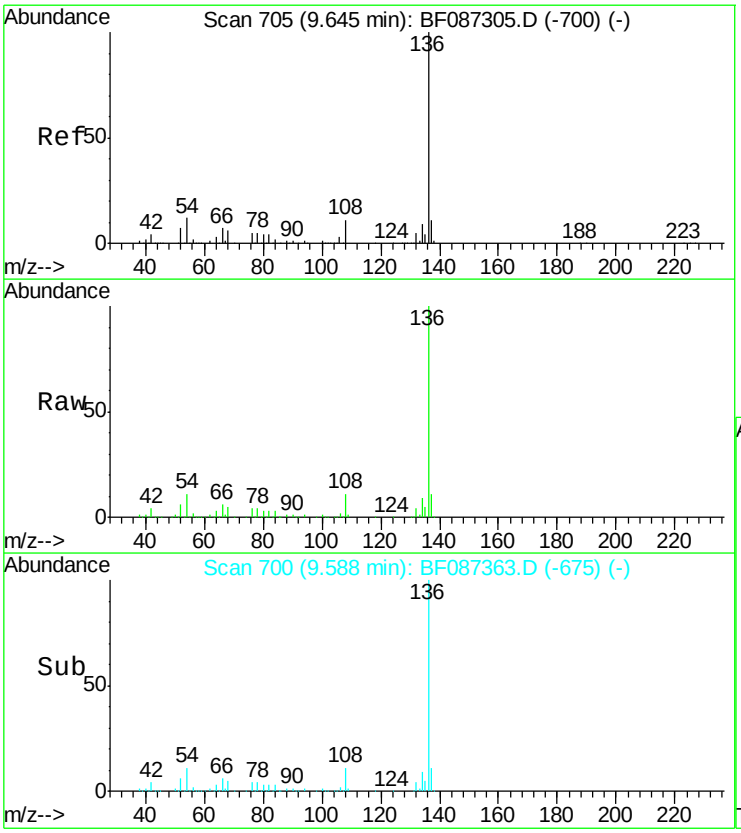

#7
Phenol-d6
Concen: 128.37 ng
RT: 7.10 min Scan# 482
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion: 99 Resp: 1085974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 30.3 | 13.6 | 20.4# |
| 71 | 40.8 | 24.6 | 36.8# |

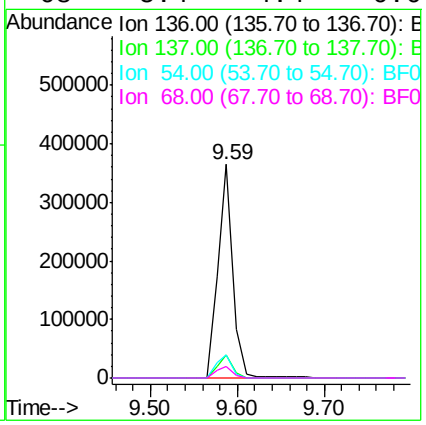


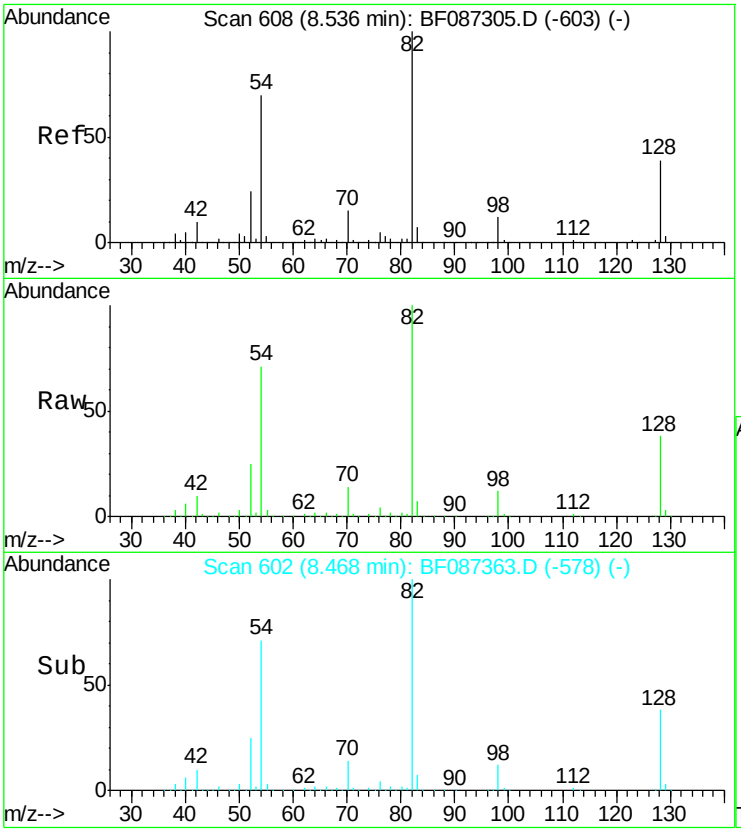




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:136 Resp: 442408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.8 | 13.2 |
| 54 | 10.6 | 5.0 | 7.4# |
| 68 | 5.4 | 4.4 | 6.6 |



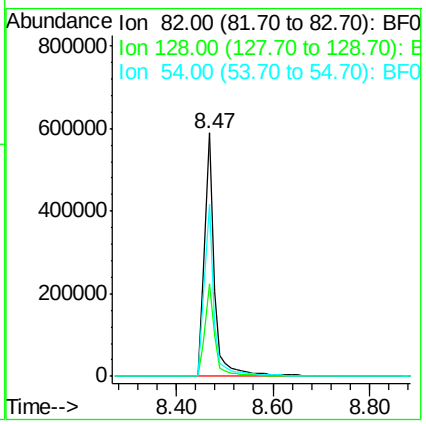


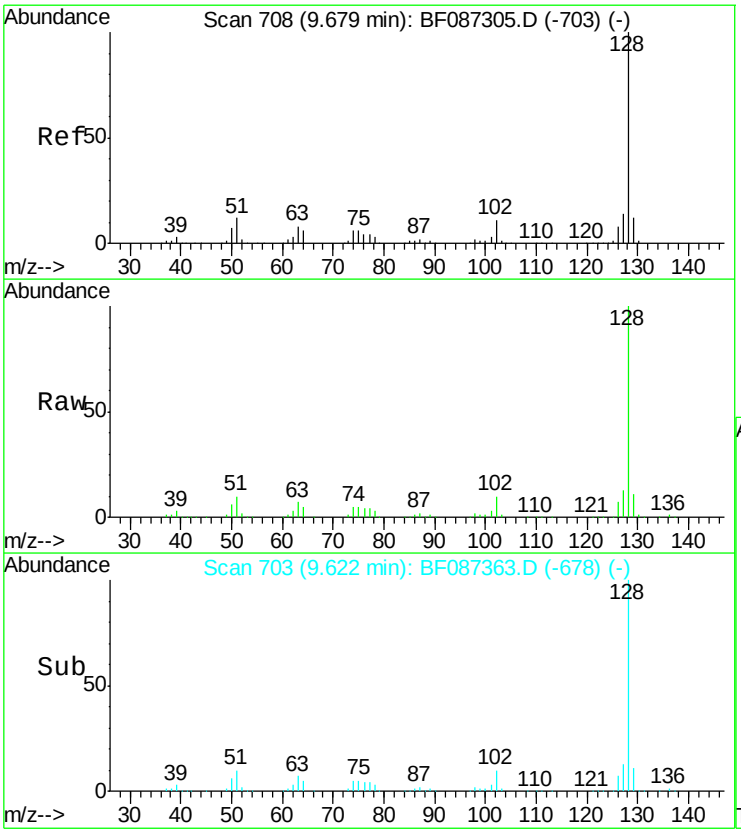

#23
Nitrobenzene-d5
Concen: 96.79 ng
RT: 8.47 min Scan# 602
Delta R.T. -0.02 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion: 82 Resp: 849611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.1 | 40.6 | 61.0# |
| 54 | 70.6 | 38.1 | 57.1# |

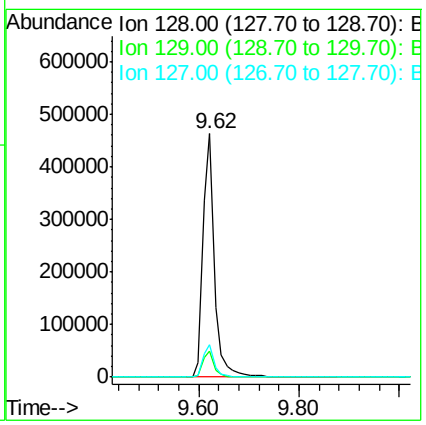


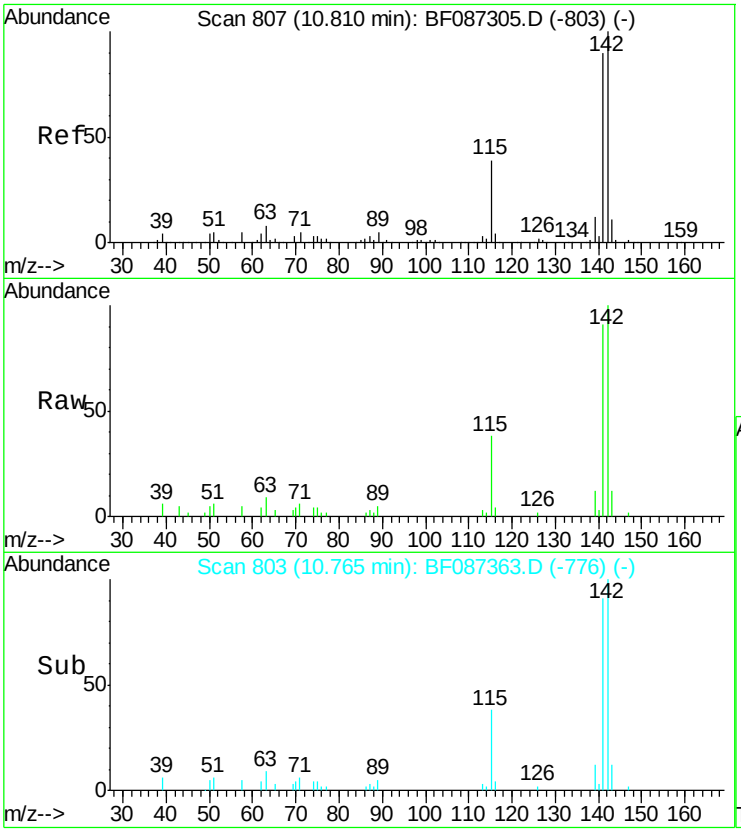




#31
Naphthalene
Concen: 33.18 ng
RT: 9.62 min Scan# 703
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:128 Resp: 735497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 8.6 | 13.0 |
| 127 | 13.3 | 10.8 | 16.2 |



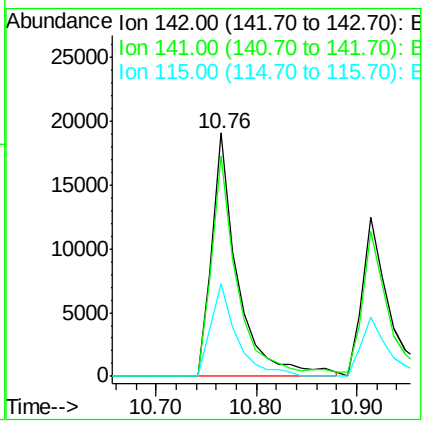


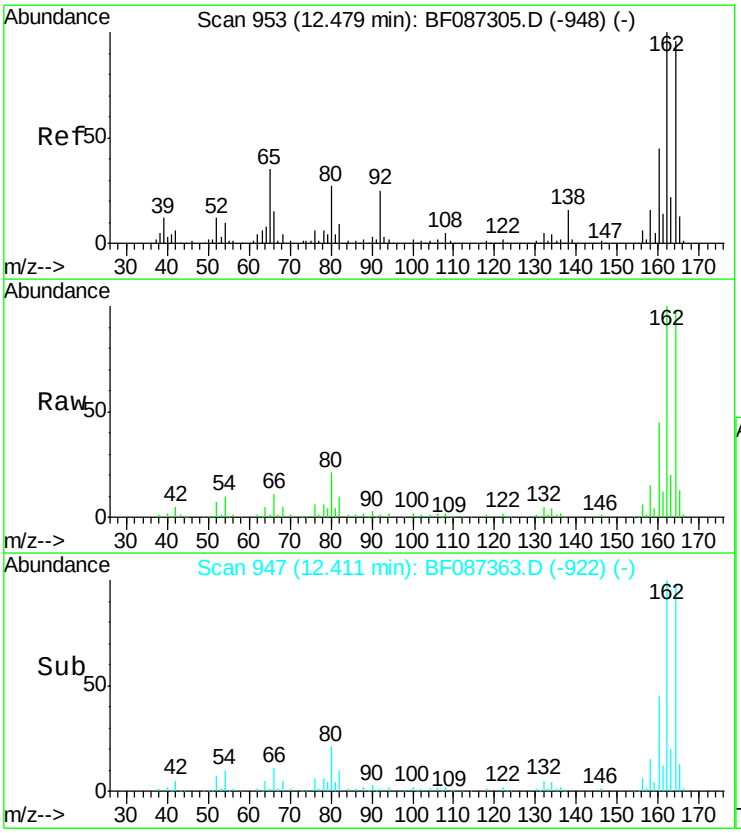

#37
2-Methylnaphthalene
Concen: 2.46 ng
RT: 10.76 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion:142 Resp: 34057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.5 | 71.0 | 106.6 |
| 115 | 37.9 | 26.6 | 39.8 |

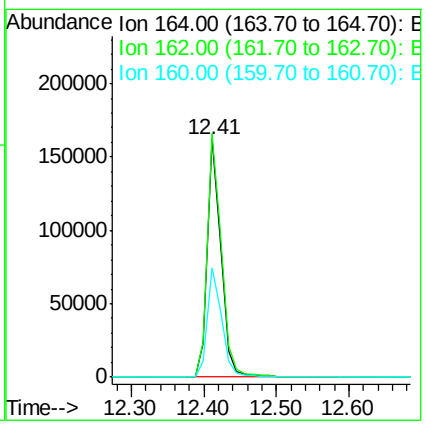


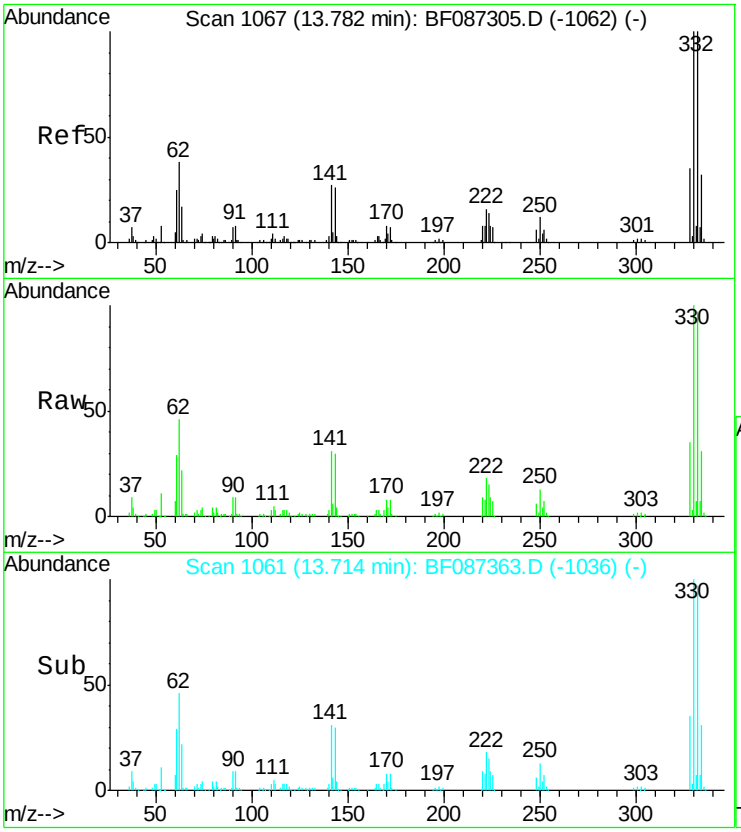




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.41 min Scan# 947
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:164 Resp: 214635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.8 | 124.2 |
| 160 | 46.0 | 36.9 | 55.3 |



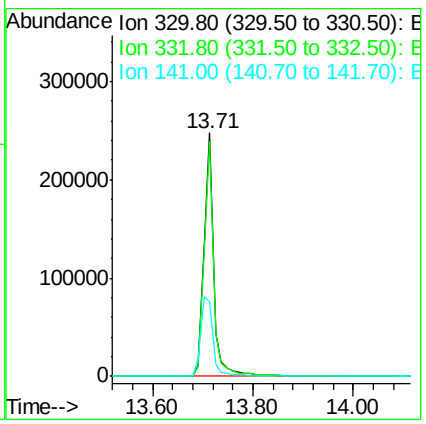


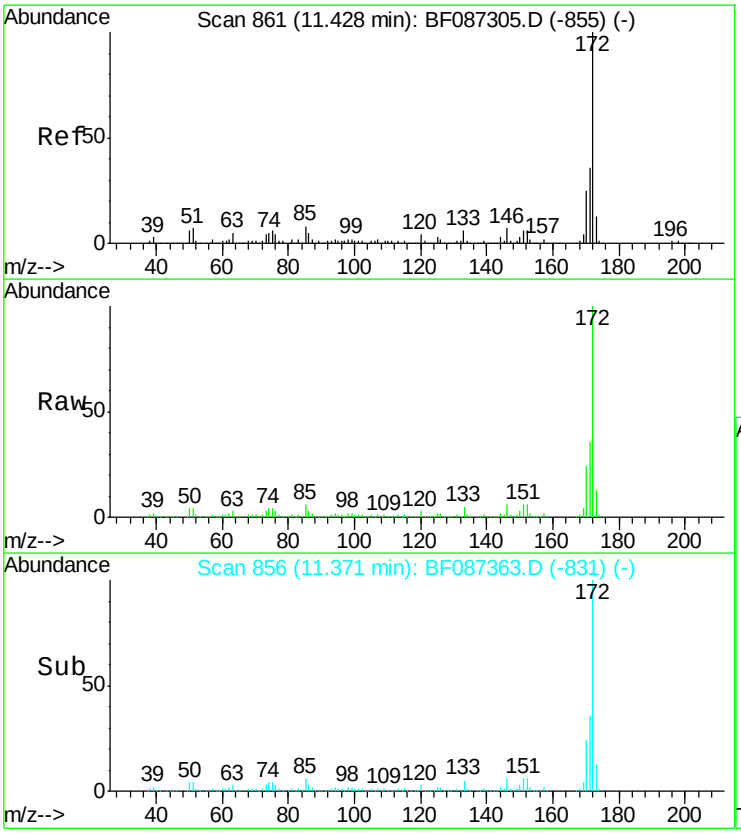

#41
2,4,6-Tribromophenol
Concen: 163.41 ng
RT: 13.71 min Scan# 1061
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion:330 Resp: 337037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 79.0 | 118.4 |
| 141 | 42.0 | 31.2 | 46.8 |

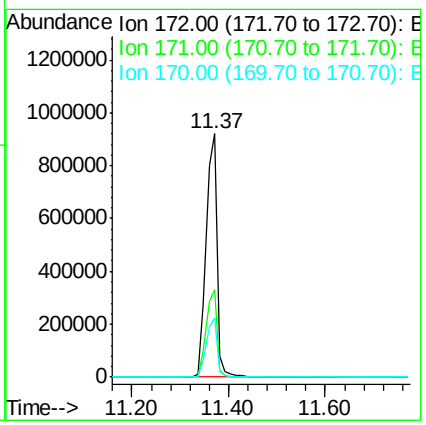


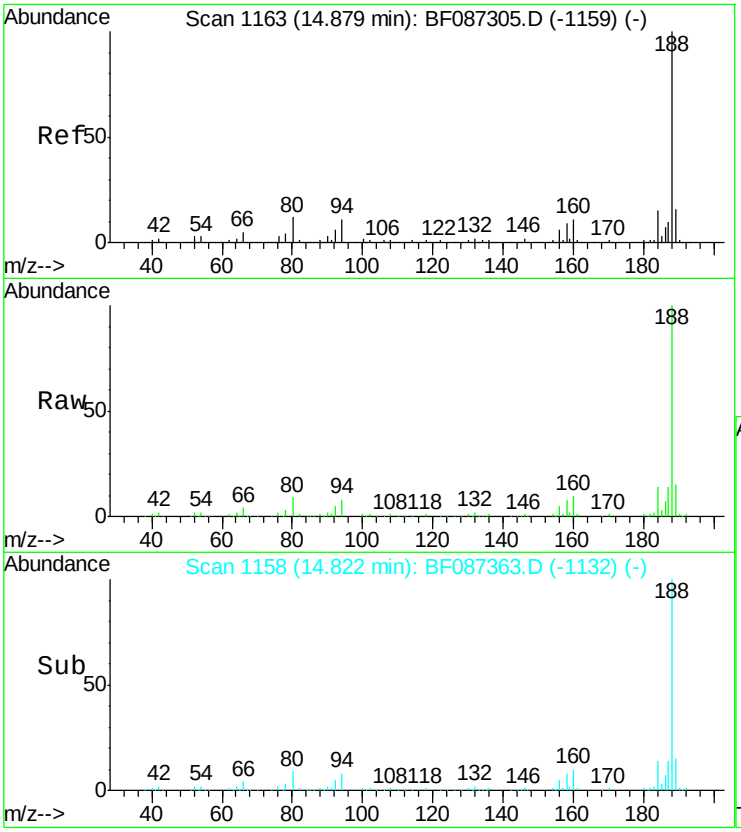




#44
2-Fluorobiphenyl
Concen: 97.06 ng
RT: 11.37 min Scan# 856
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:172 Resp: 1477724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.6 |
| 170 | 24.3 | 19.8 | 29.8 |



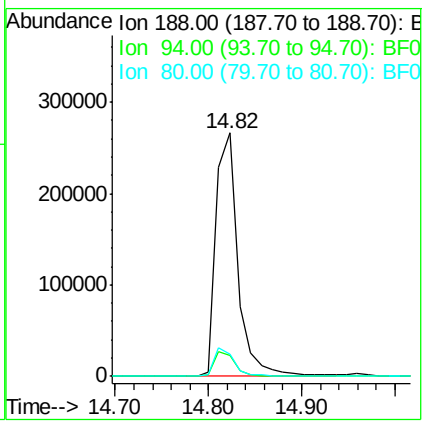


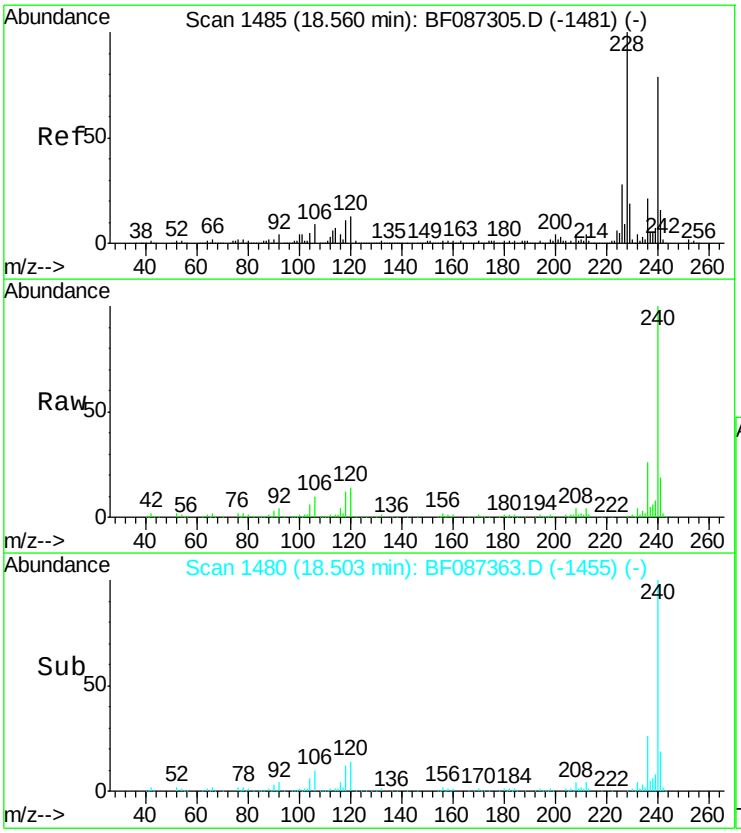

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.82 min Scan# 1158
Delta R.T. -0.00 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion:188 Resp: 434627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.4 | 6.8 | 10.2 |
| 80 | 8.9 | 7.1 | 10.7 |

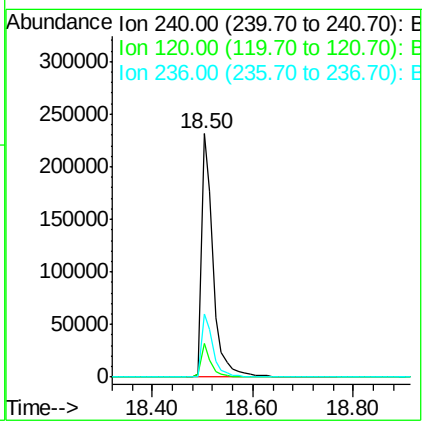


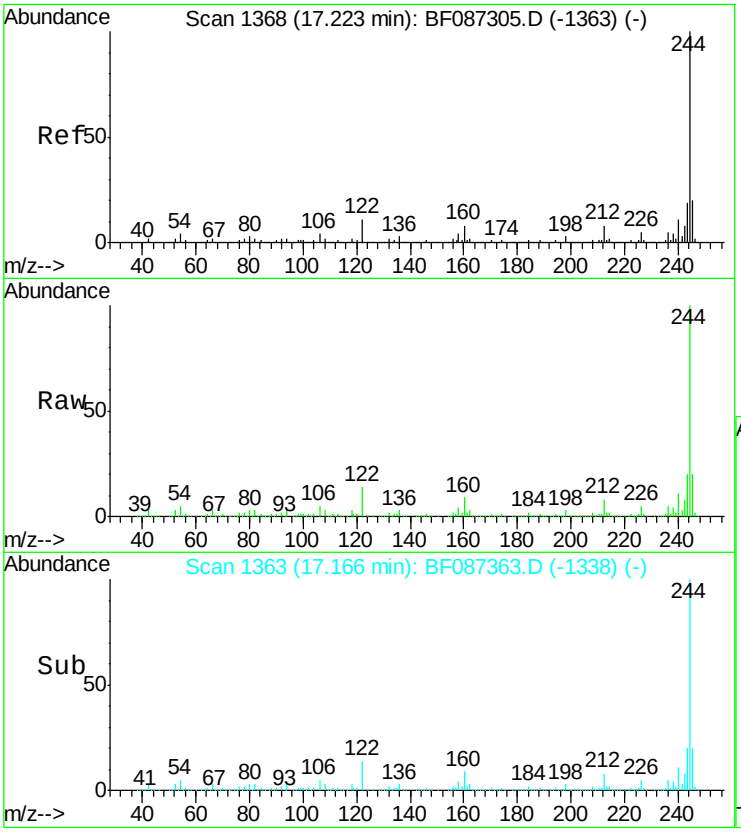




#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.50 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:240 Resp: 367759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.8 | 11.2 | 16.8 |
| 236 | 26.1 | 21.2 | 31.8 |



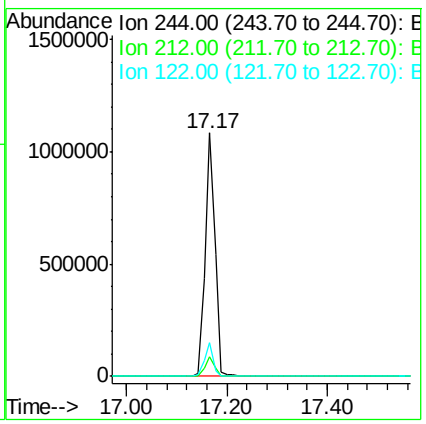


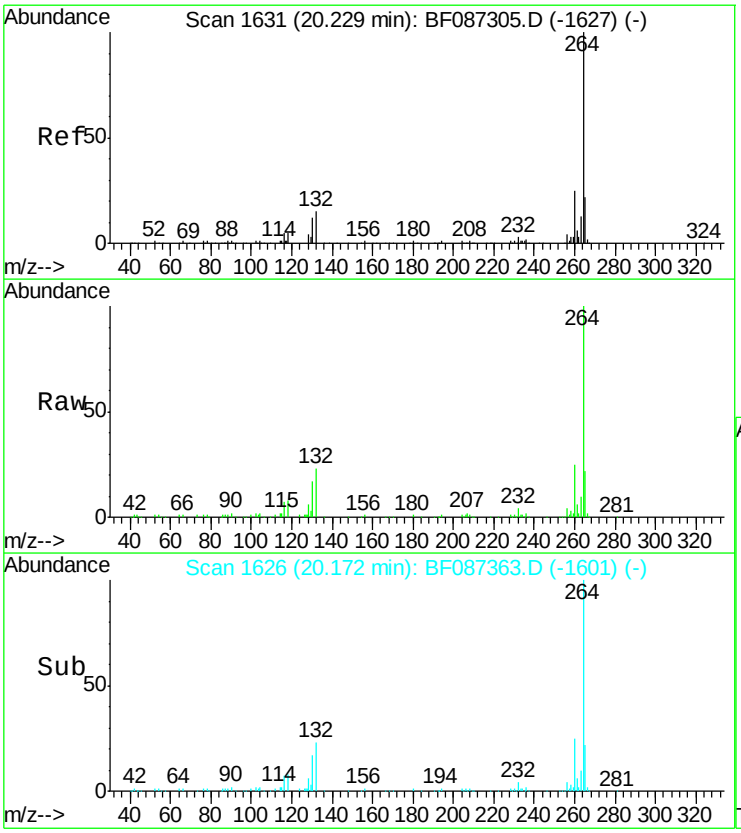

#78
Terphenyl-d14
Concen: 84.51 ng
RT: 17.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

**Instrument :**
BNA_F
**ClientSampleId :**
CHS-STA-1690(0-4)

Tgt Ion:244 Resp: 1461818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.9 | 6.2 | 9.2 |
| 122 | 13.7 | 12.0 | 18.0 |




#86
Perylene-d12
Concen: 20.00 ng
RT: 20.17 min Scan# 1626
Delta R.T. -0.01 min
Lab File: BF087363.D
Acq: 25 May 2016 5:18

Tgt Ion:264 Resp: 266462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.8 | 19.5 | 29.3 |
| 265 | 21.5 | 17.3 | 25.9 |