Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122917\
Data File : BF101835.D
Acq On : 29 Dec 2017 18:00
Operator : SJ/JU
Sample : I7023-09
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LB-6

Quant Time: Dec 30 03:29:28 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 29 13:21:45 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.79 | 152 | 105611 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.08 | 136 | 284488 | 20.00 | ng | | 0.01 |
| 38) Acenaphthene-d10 | 9.85 | 164 | 125873 | 20.00 | ng | | 0.03 |
| 63) Phenanthrene-d10 | 11.33 | 188 | 201318 | 20.00 | ng | | 0.02 |
| 75) Chrysene-d12 | 13.97 | 240 | 284401 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.44 | 264 | 302732 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.41 | 112 | 1140066 | 160.80 | ng | | 0.00 |
| 7) Phenol-d6 | 6.44 | 99 | 1251200 | 141.80 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.36 | 82 | 674986 | 132.07 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.65 | 330 | 139471 | 114.99 | ng | | 0.02 |
| 44) 2-Fluorobiphenyl | 9.16 | 172 | 803375 | 99.01 | ng | | 0.02 |
| 78) Terphenyl-d14 | 12.90 | 244 | 855718 | 72.54 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 8.10 | 128 | 1334356 | 93.167 | ng | # | 96 |
| 37) 2-Methylnaphthalene | 8.82 | 142 | 2102488 | 225.319 | ng | # | 95 |
| 45) 1,1'-Biphenyl | 9.26 | 154 | 358351 | 32.102 | ng | | 98 |
| 51) Acenaphthene | 9.88 | 154 | 91917 | 11.340 | ng | # | 54 |
| 57) Fluorene | 10.40 | 166 | 231090 | 26.520 | ng | # | 89 |
| 70) Phenanthrene | 11.36 | 178 | 625702 | 55.888 | ng | | 96 |

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

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Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

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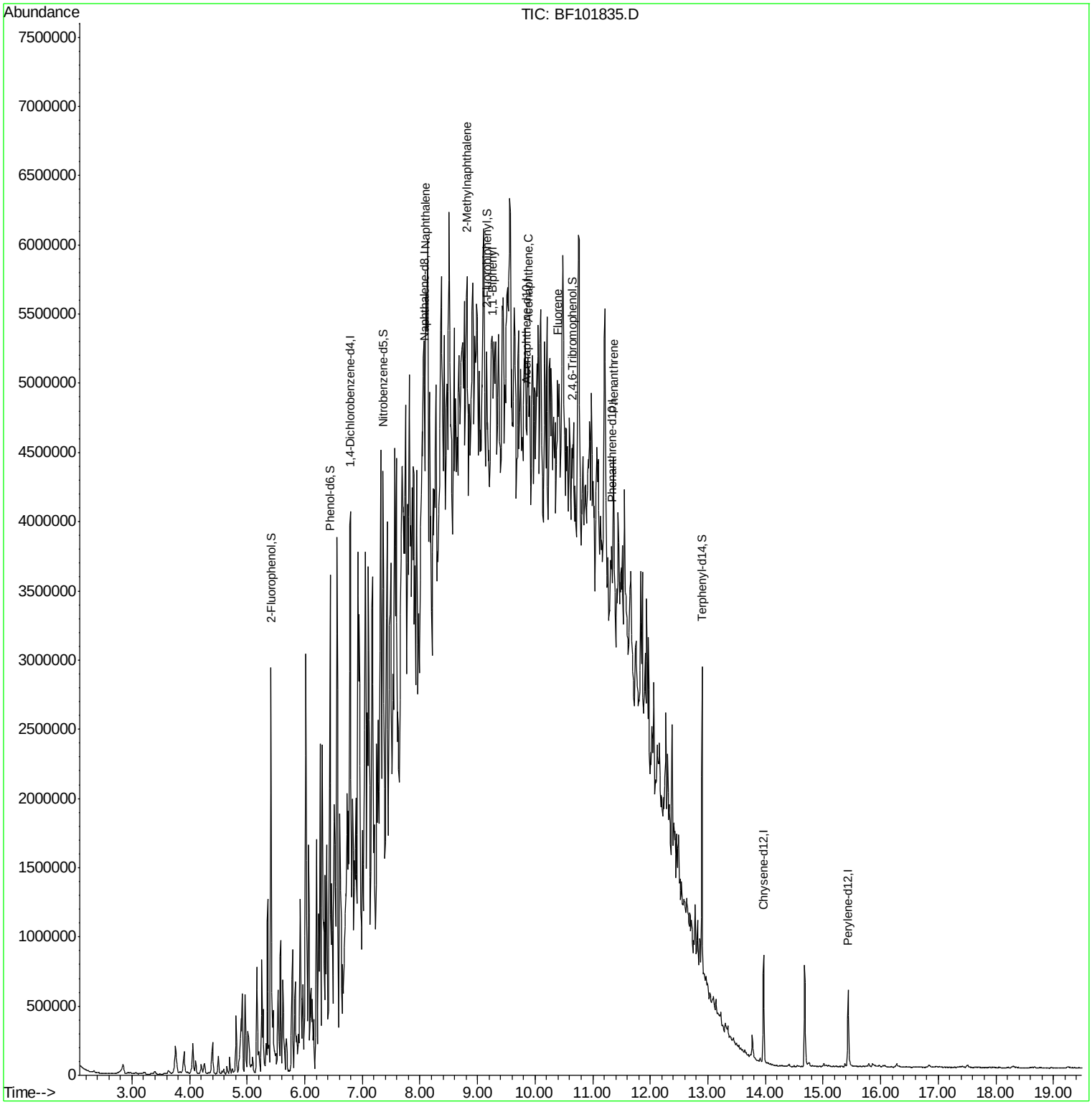
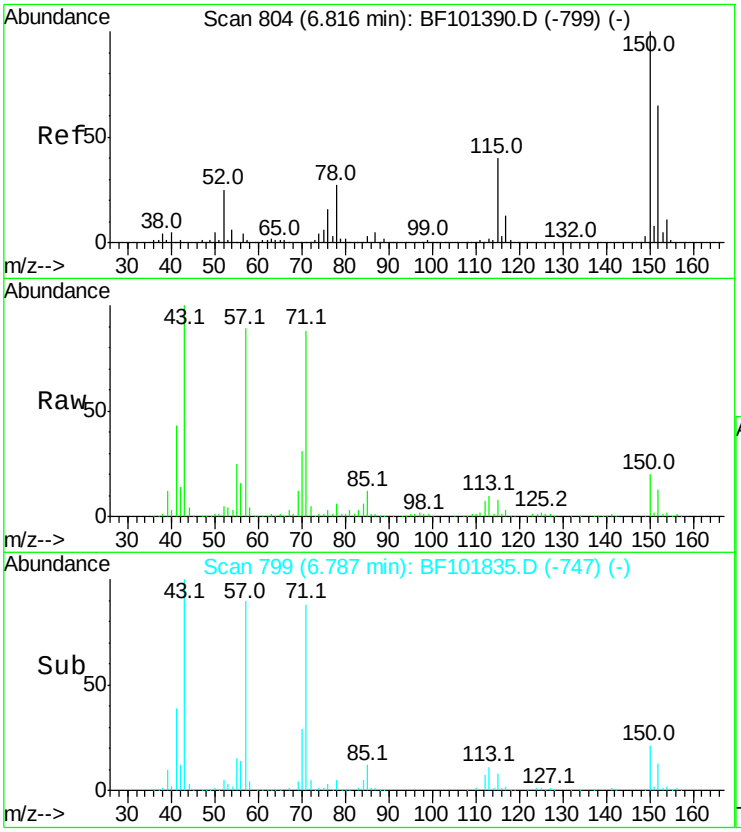


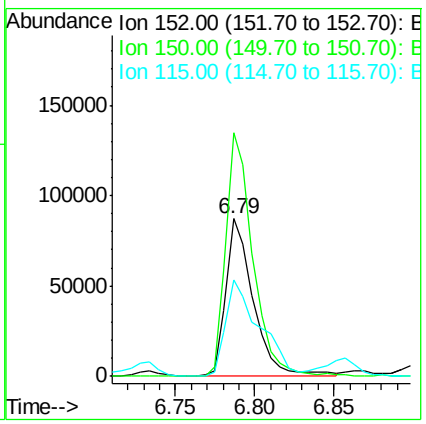


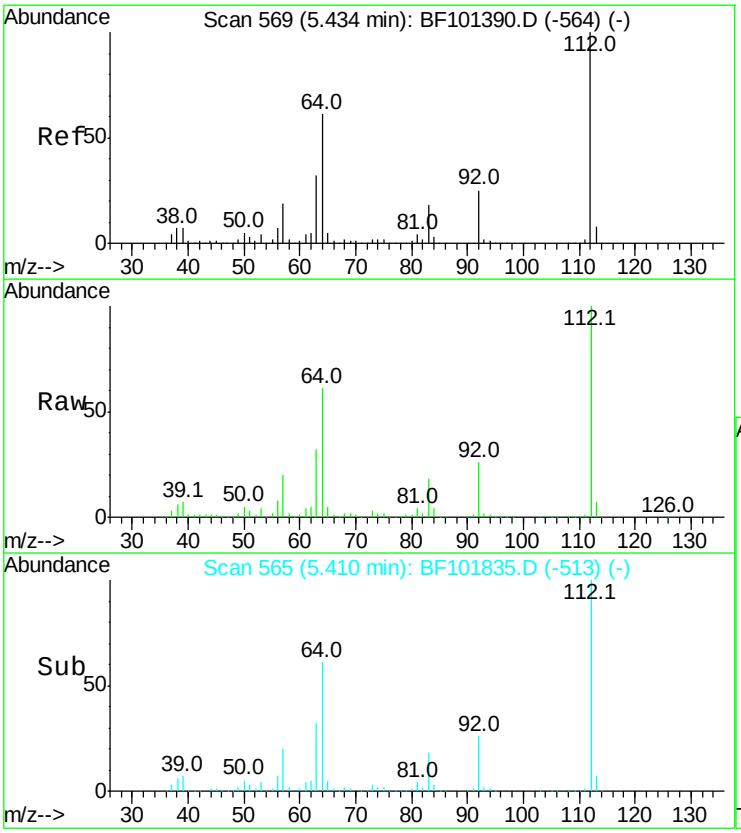

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. 0.01 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:152 Resp: 105611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.5 | 124.6 | 186.8 |
| 115 | 61.0 | 50.1 | 75.1 |

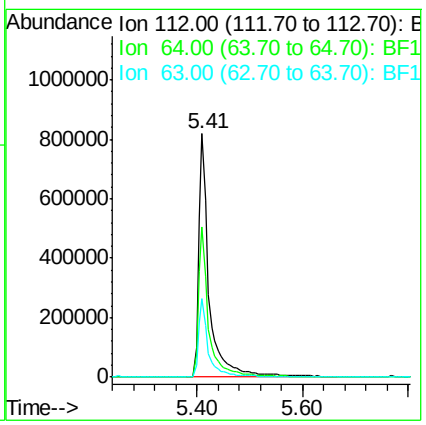


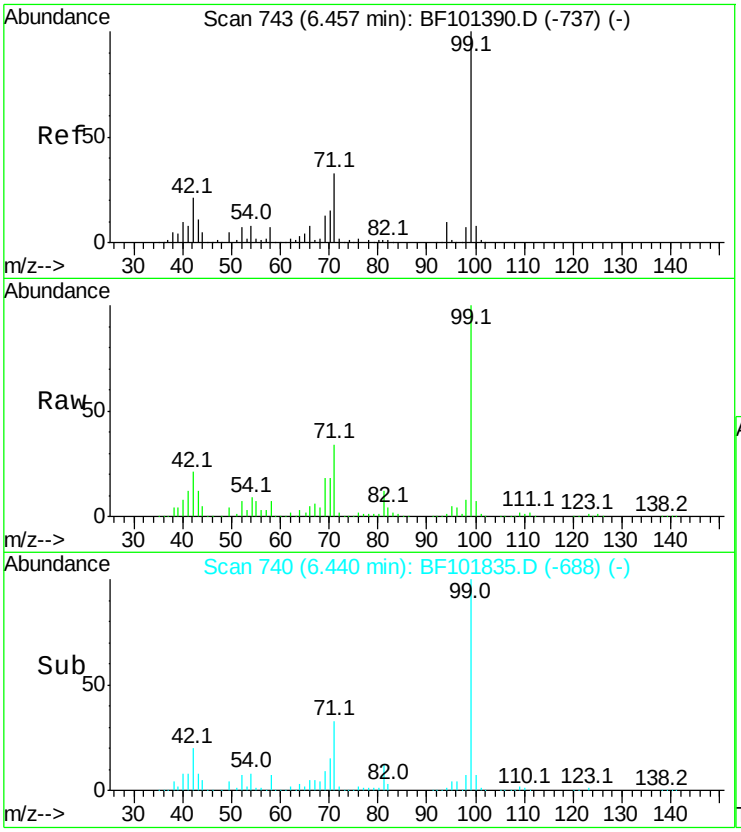




#5
2-Fluorophenol
Concen: 160.799 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.01 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:112 Resp: 1140066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.4 | 47.9 | 71.9 |
| 63 | 32.0 | 23.7 | 35.5 |



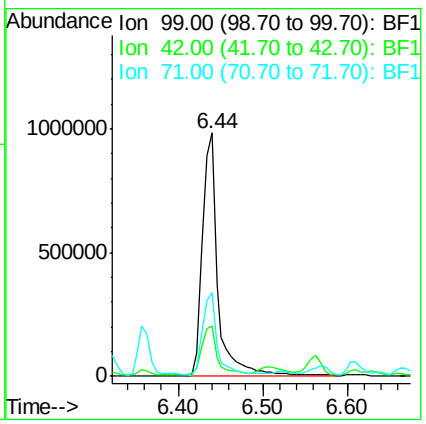


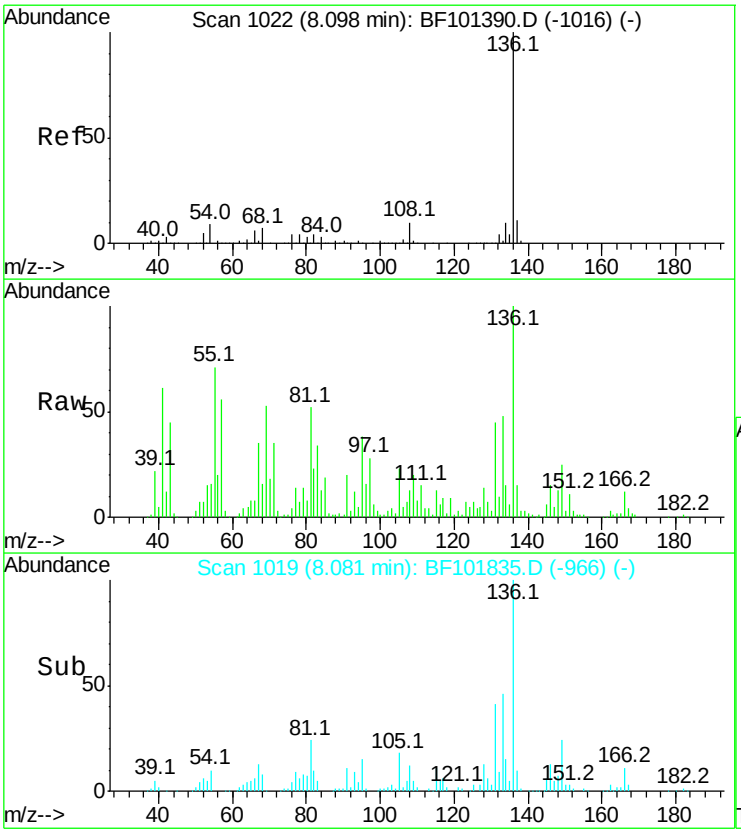

#7
Phenol-d6
Concen: 141.799 ng
RT: 6.44 min Scan# 740
Delta R.T. 0.01 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion: 99 Resp: 1251200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.8 | 14.5 | 21.7 |
| 71 | 34.3 | 25.4 | 38.0 |

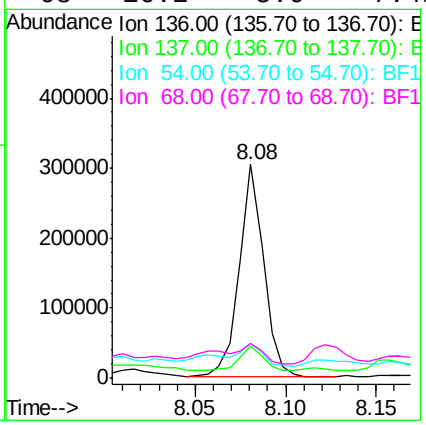


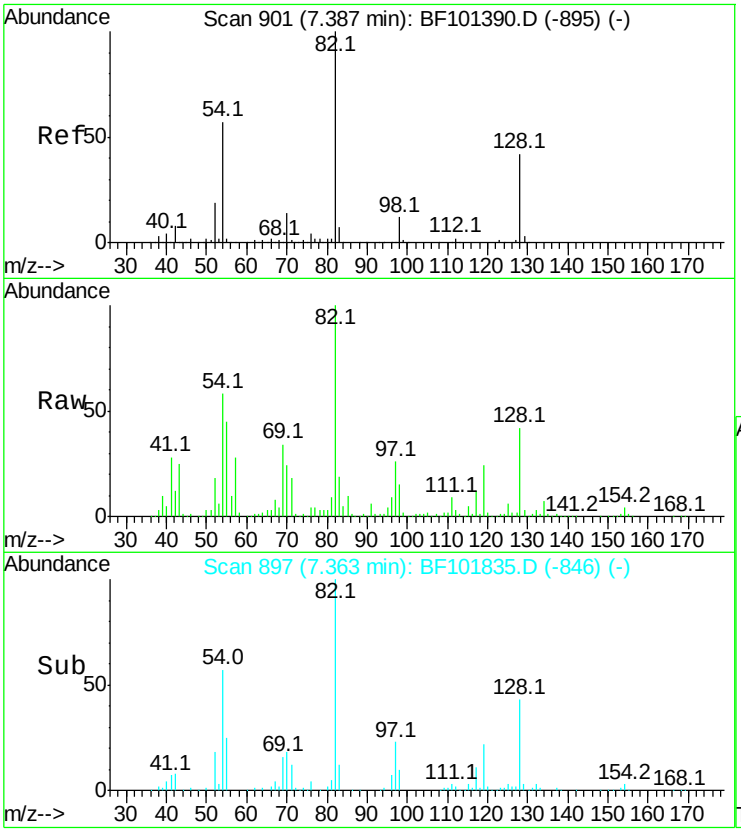




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.08 min Scan# 1019
Delta R.T. 0.01 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:136 Resp: 284488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 14.8 | 8.9 | 13.3# |
| 54 | 15.9 | 6.6 | 9.8# |
| 68 | 16.2 | 5.0 | 7.4# |



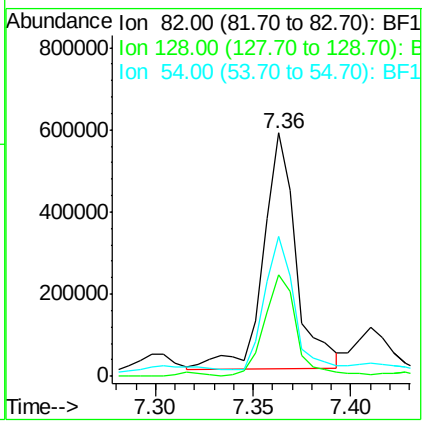


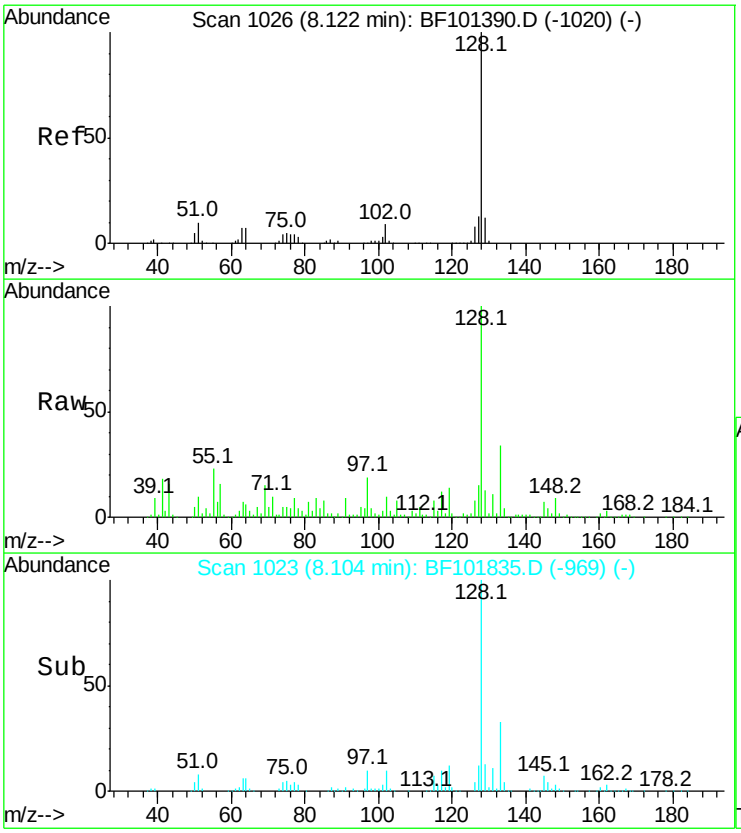

#23
Nitrobenzene-d5
Concen: 132.075 ng
RT: 7.36 min Scan# 897
Delta R.T. 0.00 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion: 82 Resp: 674986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.0 | 36.1 | 54.1 |
| 54 | 57.6 | 41.4 | 62.2 |

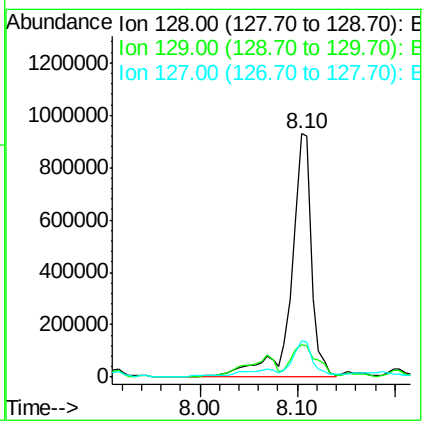


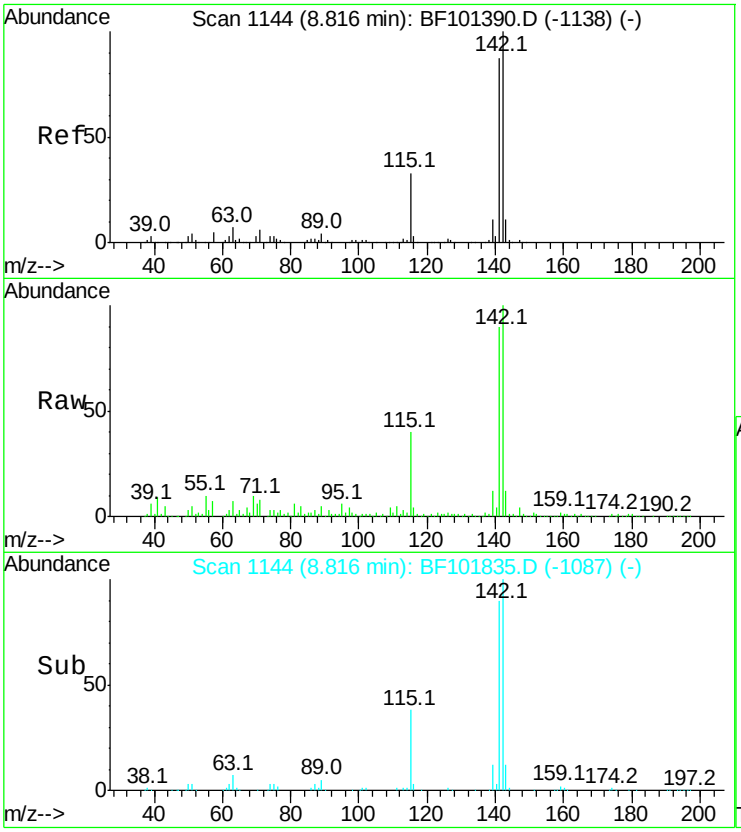




#31
Naphthalene
Concen: 93.167 ng
RT: 8.10 min Scan# 1023
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:128 Resp: 1334356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.3 | 8.8 | 13.2# |
| 127 | 14.9 | 10.9 | 16.3 |



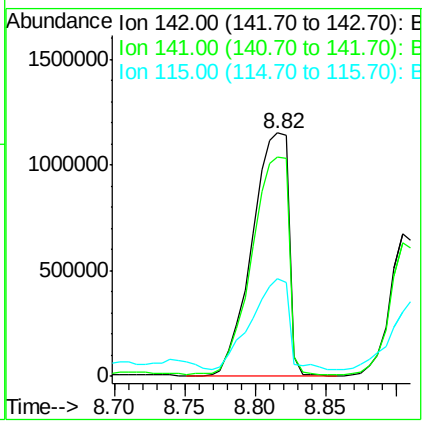


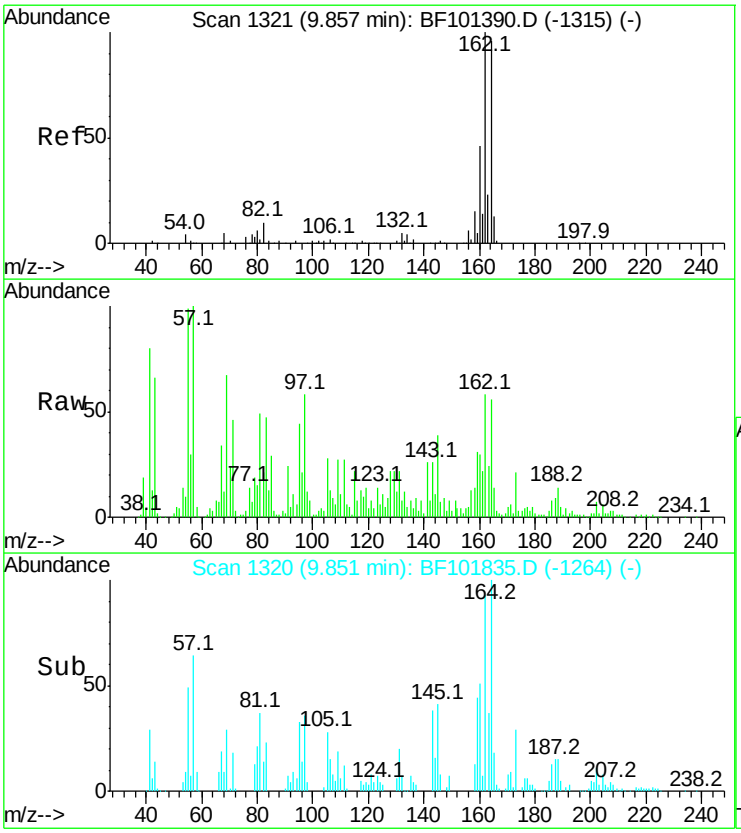

#37
2-Methylnaphthalene
Concen: 225.319 ng
RT: 8.82 min Scan# 1144
Delta R.T. 0.04 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:142 Resp: 2102488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.8 | 70.8 | 106.2 |
| 115 | 40.0 | 26.1 | 39.1# |

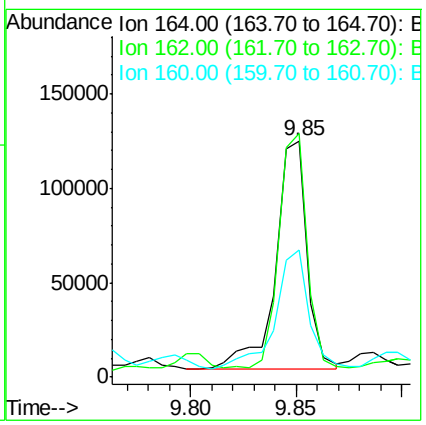


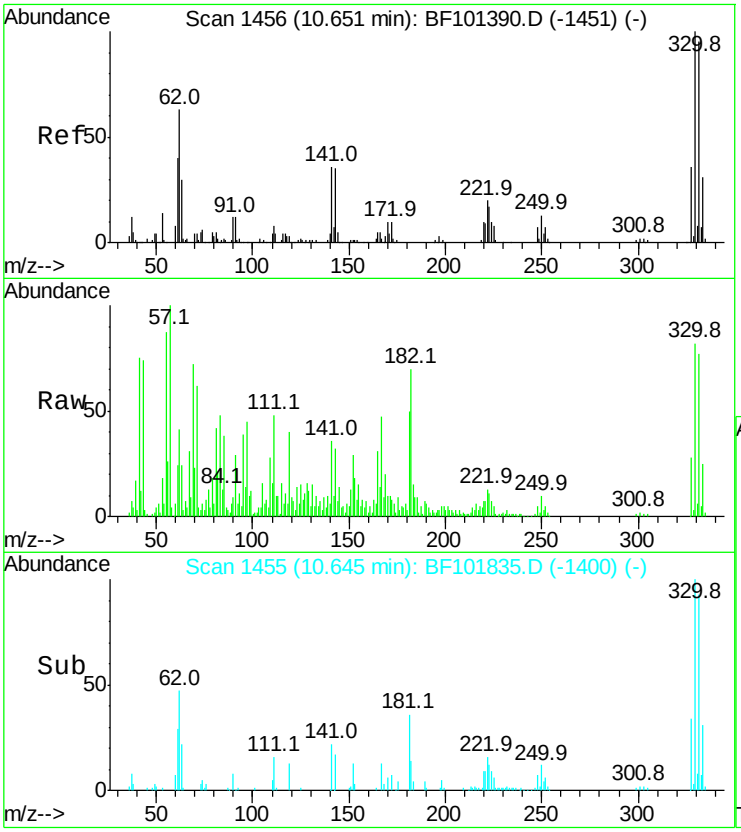




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.03 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:164 Resp: 125873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.2 | 86.1 | 129.1 |
| 160 | 54.1 | 38.3 | 57.5 |



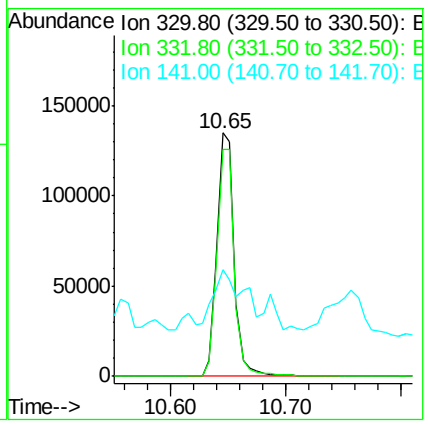


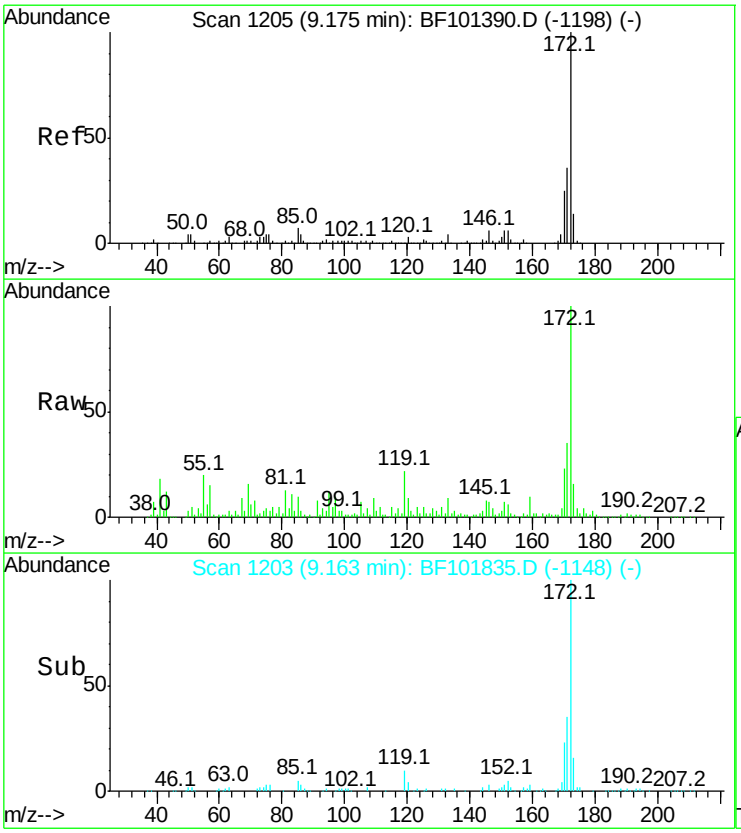

#41
2,4,6-Tribromophenol
Concen: 114.991 ng
RT: 10.65 min Scan# 1455
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:330 Resp: 139471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.7 | 77.0 | 115.6 |
| 141 | 39.4 | 29.9 | 44.9 |

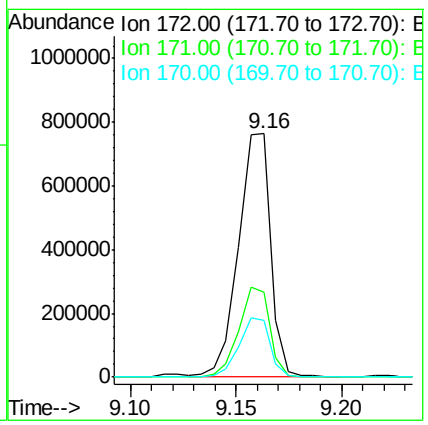


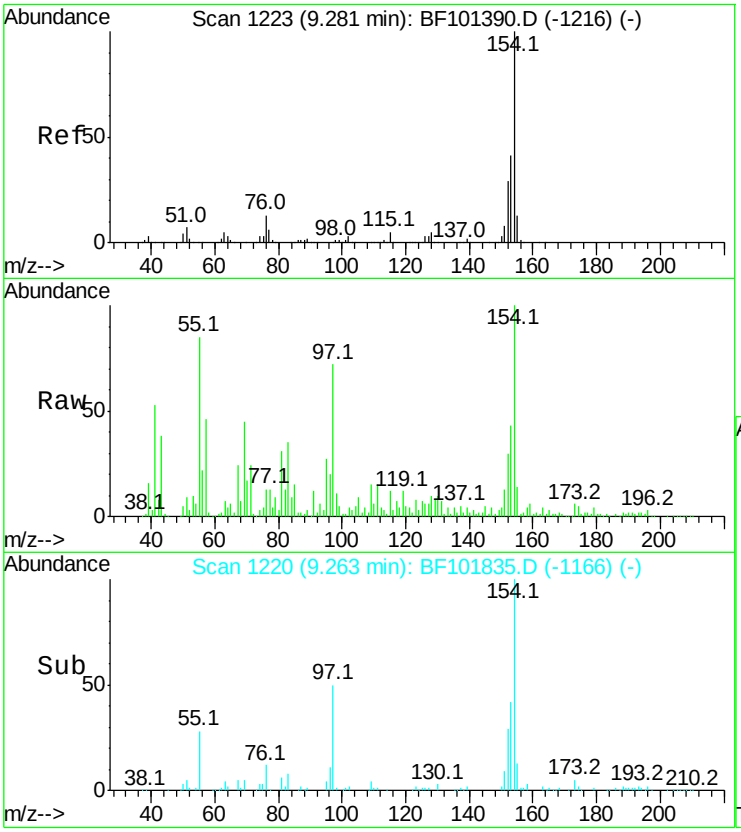




#44
2-Fluorobiphenyl
Concen: 99.007 ng
RT: 9.16 min Scan# 1203
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:172 Resp: 803375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 29.7 | 44.5 |
| 170 | 23.4 | 19.6 | 29.4 |



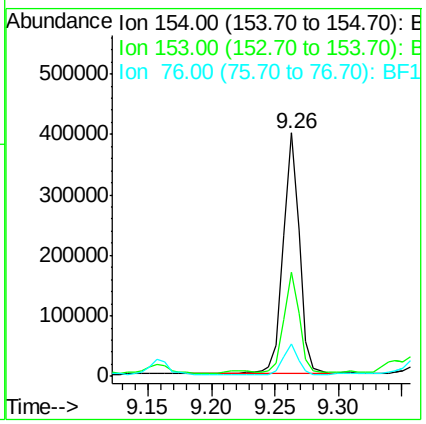


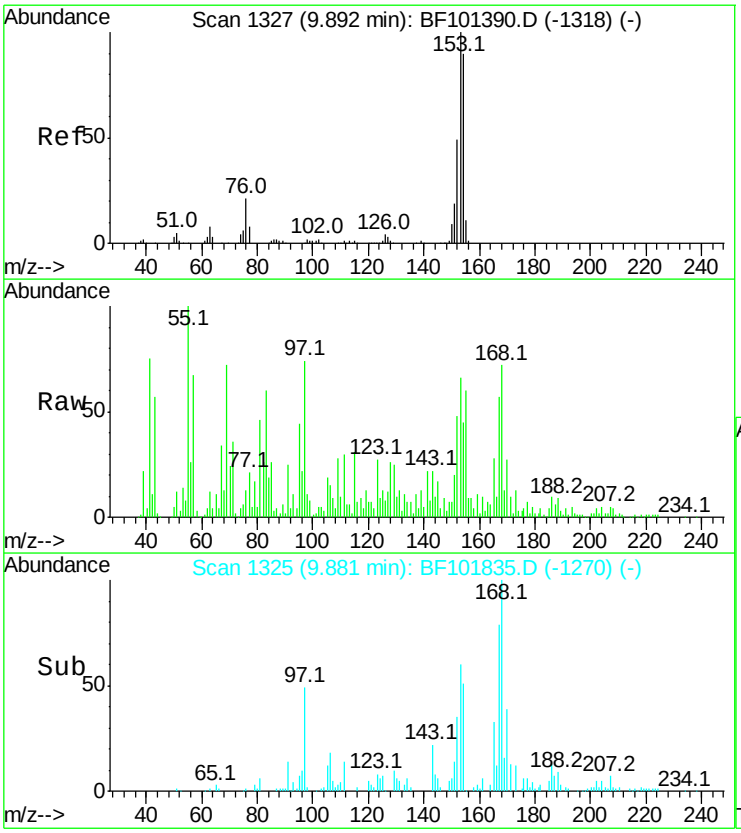

#45
1,1'-Biphenyl
Concen: 32.102 ng
RT: 9.26 min Scan# 1220
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:154 Resp: 358351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 42.6 | 21.3 | 61.3 |
| 76 | 13.2 | 0.0 | 34.0 |

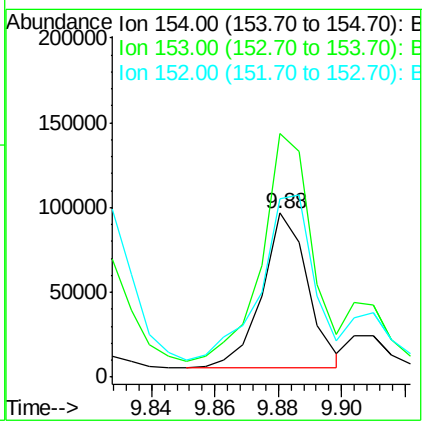


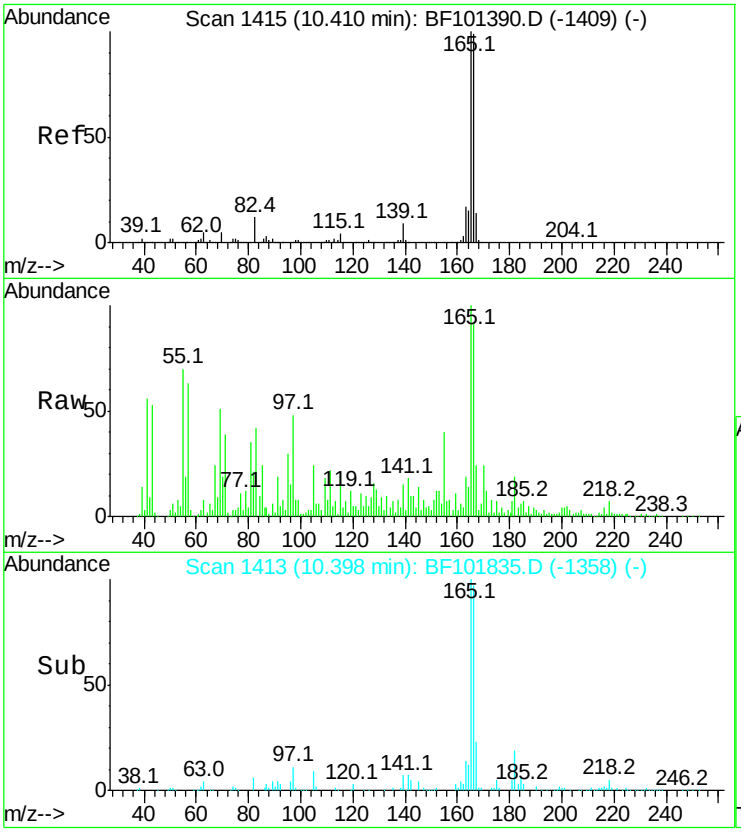




#51
Acenaphthene
Concen: 11.340 ng
RT: 9.88 min Scan# 1325
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:154 Resp: 91917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 148.8 | 91.2 | 136.8# |
| 152 | 108.7 | 43.8 | 65.8# |



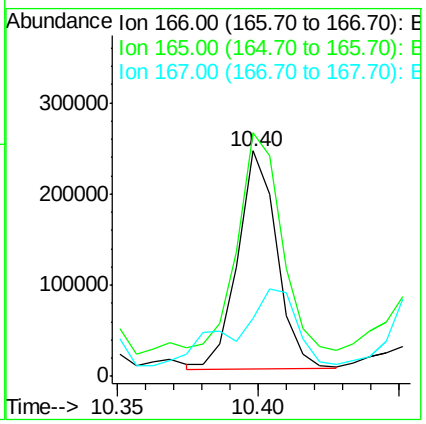


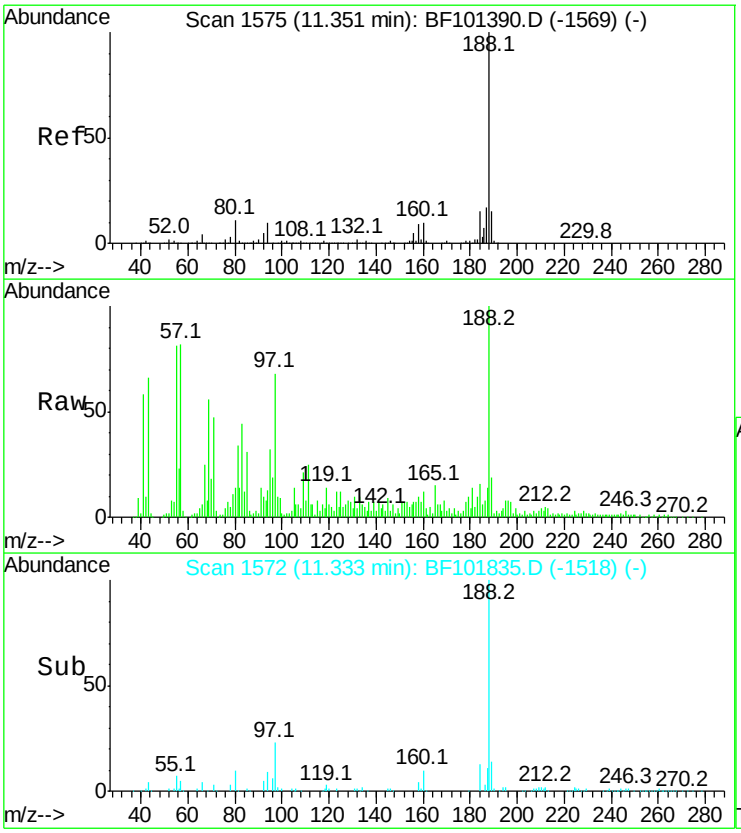

#57
Fluorene
Concen: 26.520 ng
RT: 10.40 min Scan# 1413
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:166 Resp: 231090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 108.1 | 79.8 | 119.8 |
| 167 | 25.5 | 10.6 | 16.0# |

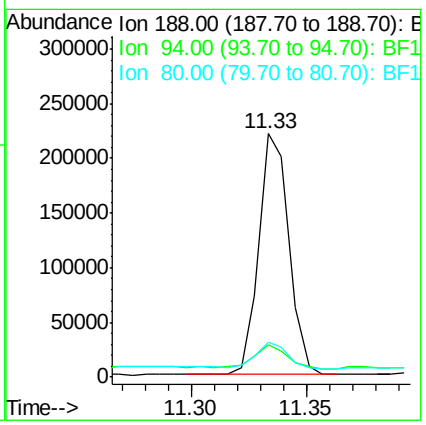


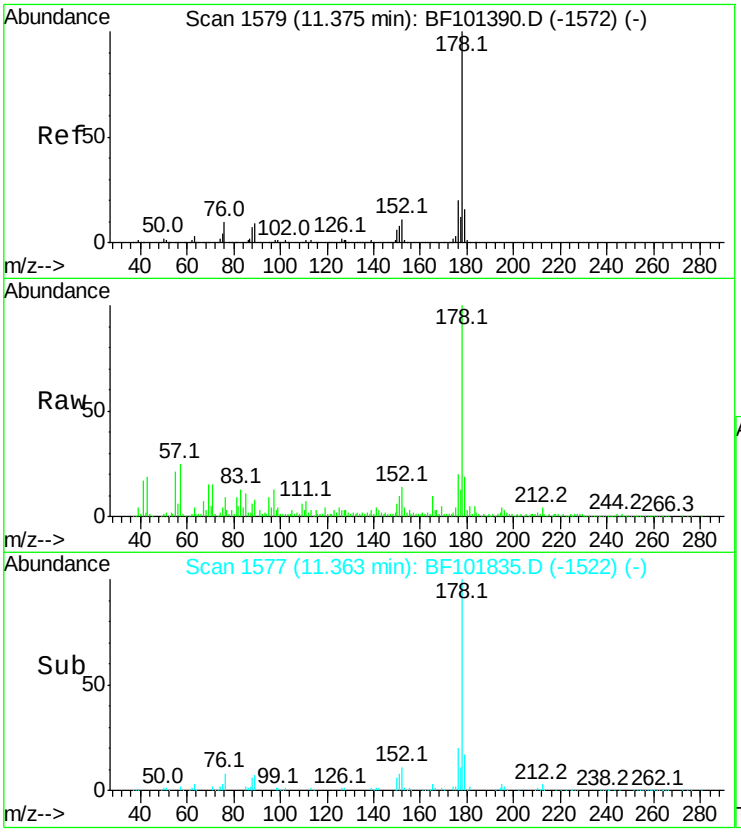




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:188 Resp: 201318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 13.5 | 8.5 | 12.7# |
| 80 | 14.5 | 9.2 | 13.8# |



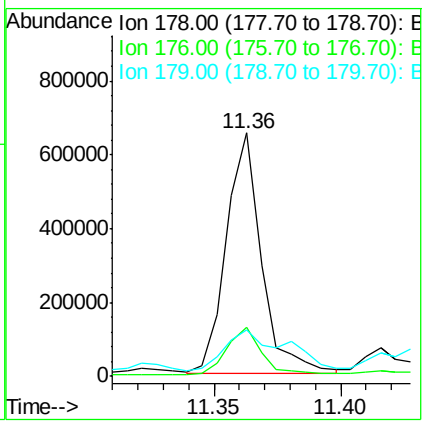


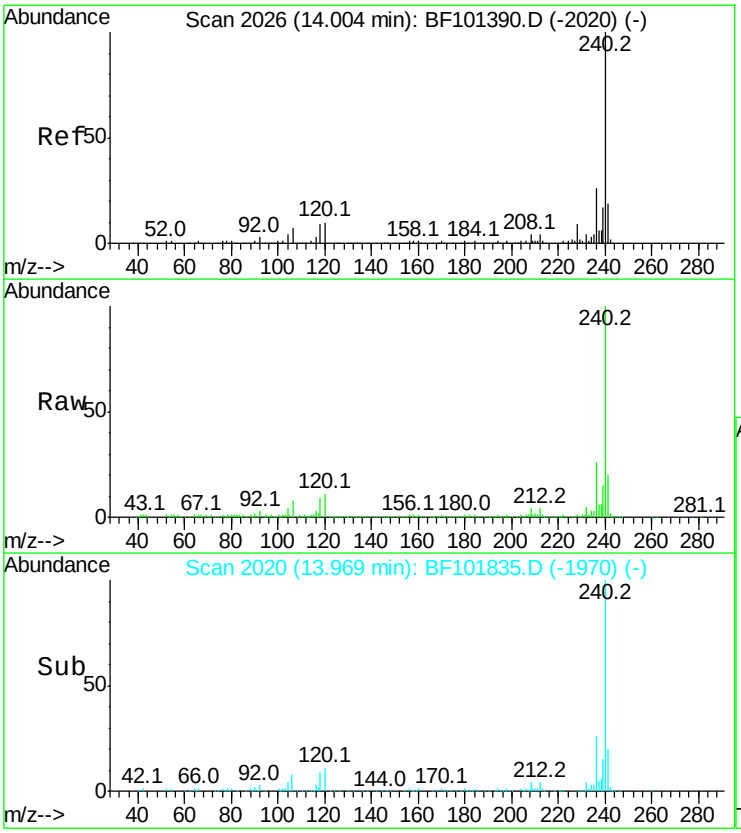

#70
Phenanthrene
Concen: 55.888 ng
RT: 11.36 min Scan# 1577
Delta R.T. 0.02 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:178 Resp: 625702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.3 | 15.8 | 23.8 |
| 179 | 19.2 | 13.0 | 19.6 |

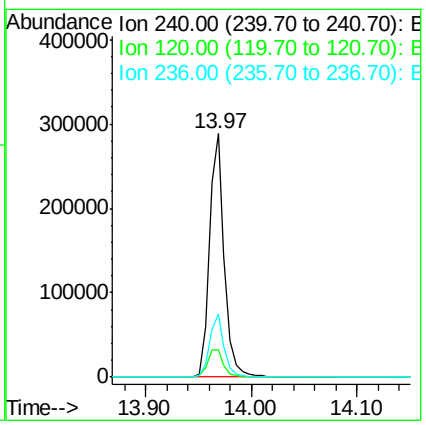


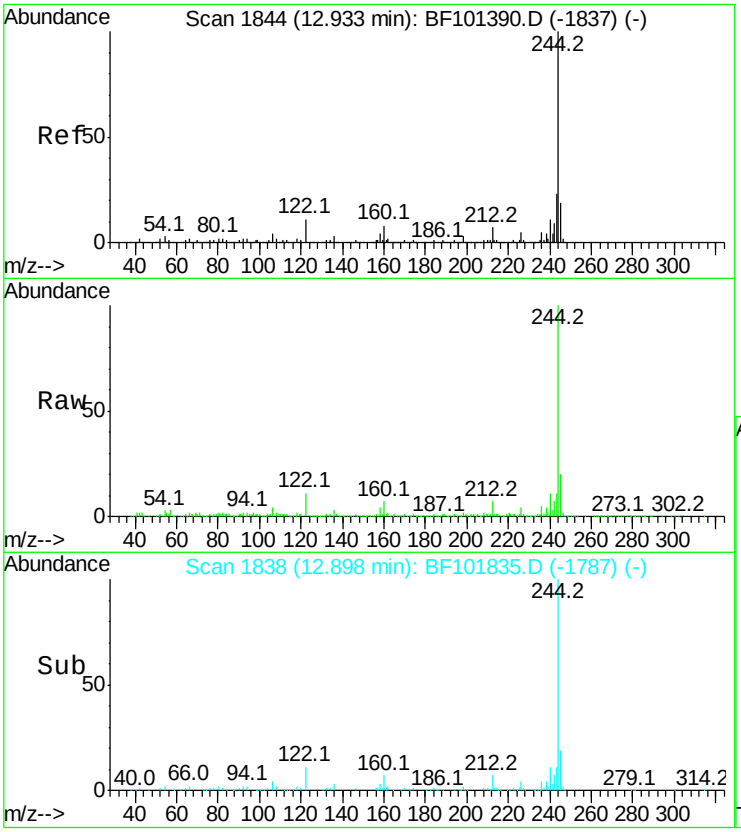




#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:240 Resp: 284401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.2 | 9.5 | 14.3 |
| 236 | 26.1 | 20.7 | 31.1 |



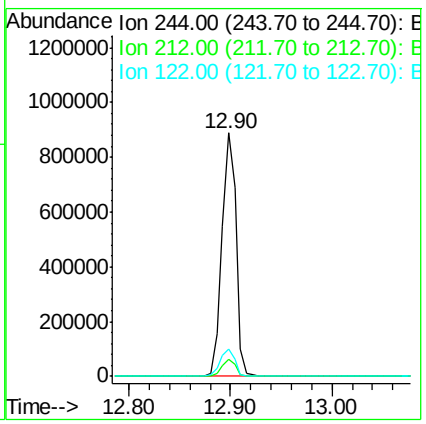


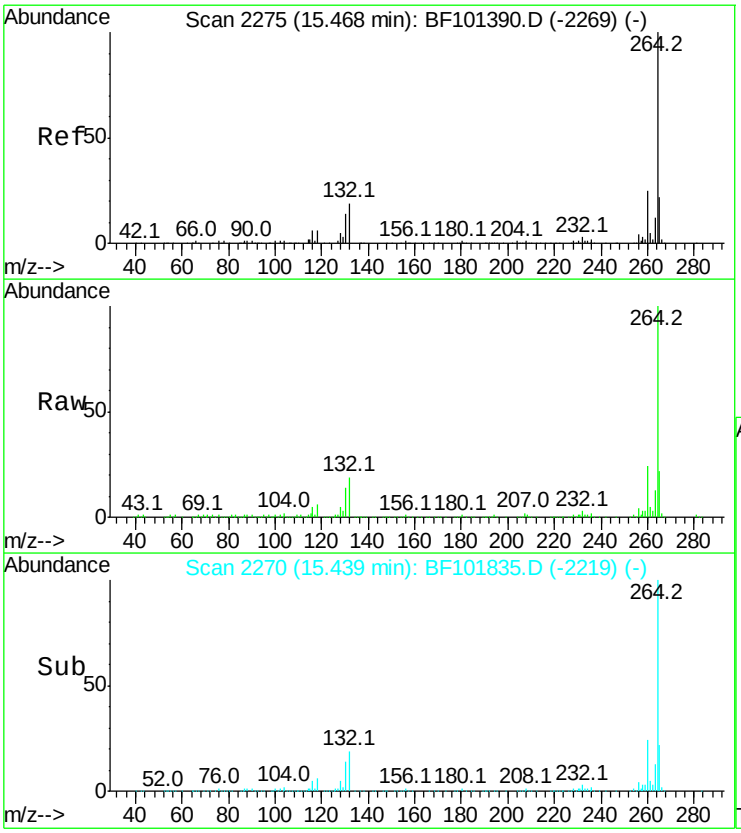

#78
Terphenyl-d14
Concen: 72.536 ng
RT: 12.90 min Scan# 1838
Delta R.T. 0.00 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

**Instrument :**
BNA_F
**ClientSampleId :**
LB-6

Tgt Ion:244 Resp: 855718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.4 | 8.0 |
| 122 | 11.0 | 11.0 | 16.4 |




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF101835.D
Acq: 29 Dec 2017 18:00

Tgt Ion:264 Resp: 302732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.3 | 19.2 | 28.8 |
| 265 | 22.0 | 17.5 | 26.3 |