Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071417\
Data File : BF096808.D
Acq On : 15 Jul 2017 8:45
Operator : SJ/JU
Sample : I4172-04DL2 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
mohammad
7/17/2017 3:58:03 PM

Quant Time: Jul 17 06:01:00 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 13 14:49:34 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.63 | 152 | 78898 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 7.91 | 136 | 315084 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.66 | 164 | 114617 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 11.13 | 188 | 165350 | 20.00 | ng | | -0.01 |
| 75) Chrysene-d12 | 13.76 | 240 | 162145 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 15.14 | 264 | 113971 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.23 | 112 | 10738 | 2.05 | ng | | 0.00 |
| 7) Phenol-d6 | 6.27 | 99 | 13567 | 2.15 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.19 | 82 | 8420 | 1.66 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.44 | 330 | 1778 | 1.82 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 8.98 | 172 | 15573 | 2.15 | ng | | -0.02 |
| 78) Terphenyl-d14 | 12.71 | 244 | 10099 | 1.08 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 13) 1,4-Dichlorobenzene | 6.65 | 146 | 46185 | 7.579 | ng | | 96 |
| 14) 1,2-Dichlorobenzene | 6.80 | 146 | 129687 | 23.398 | ng | | 95 |
| 30) 1,2,4-Trichlorobenzene | 7.85 | 180 | 8293 | 2.002 | ng | | 86 |
| 31) Naphthalene | 7.93 | 128 | 636702 | 42.657 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.62 | 142 | 728073 | 76.511 | ng | | 100 |
| 45) 1,1'-Biphenyl | 9.08 | 154 | 74015 | 7.529 | ng | | 97 |
| 51) Acenaphthene | 9.69 | 154 | 21084 | 3.095 | ng | | 94 |
| 54) Dibenzofuran | 9.86 | 168 | 19581m | 2.051 | ng | | |
| 57) Fluorene | 10.20 | 166 | 17880 | 2.534 | ng | # | 79 |
| 70) Phenanthrene | 11.16 | 178 | 31146 | 3.464 | ng | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071417\
Data File : BF096808.D
Acq On : 15 Jul 2017 8:45
Operator : SJ/JU
Sample : I4172-04DL2 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 17 06:01:00 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 13 14:49:34 2017
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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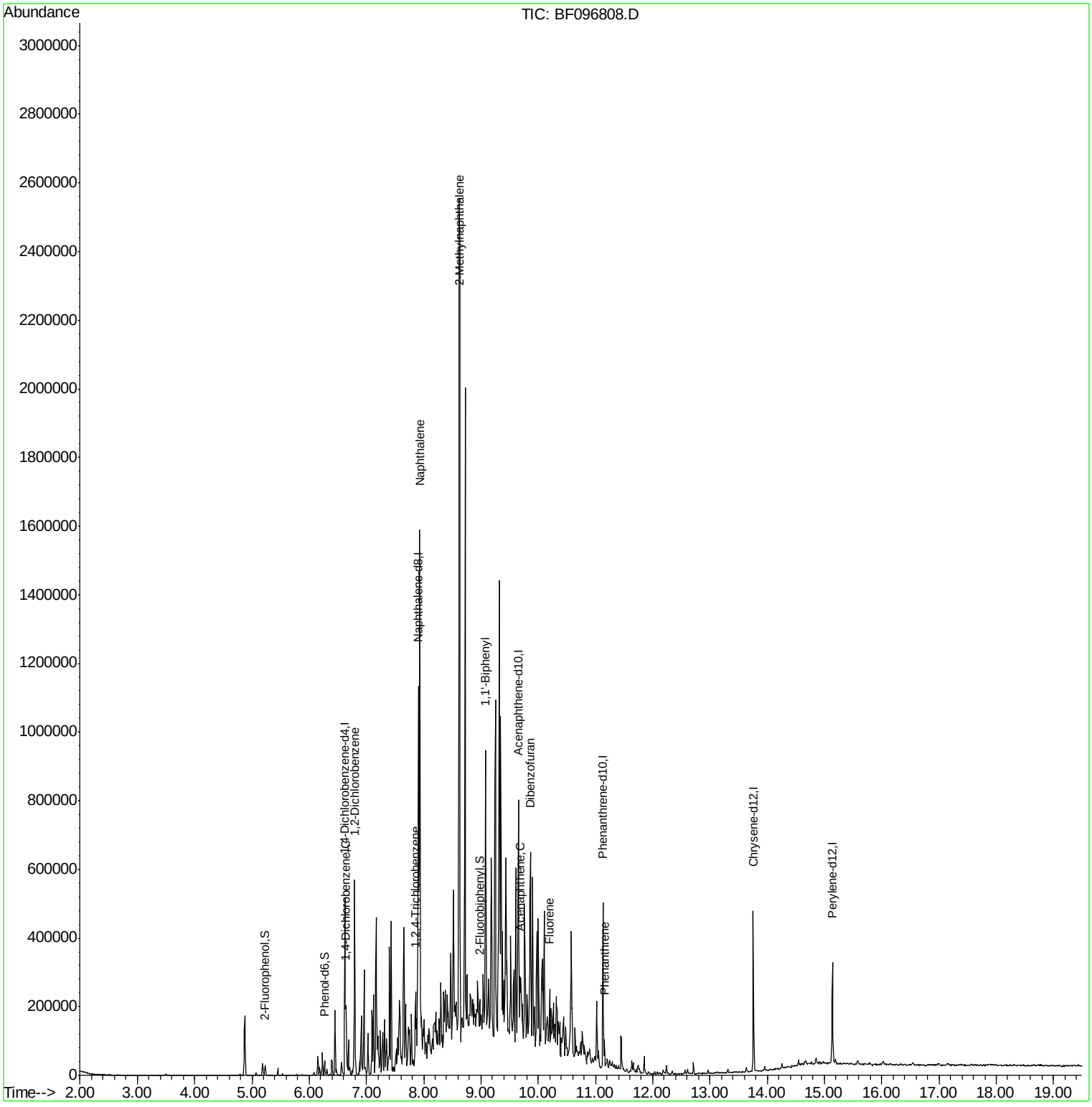
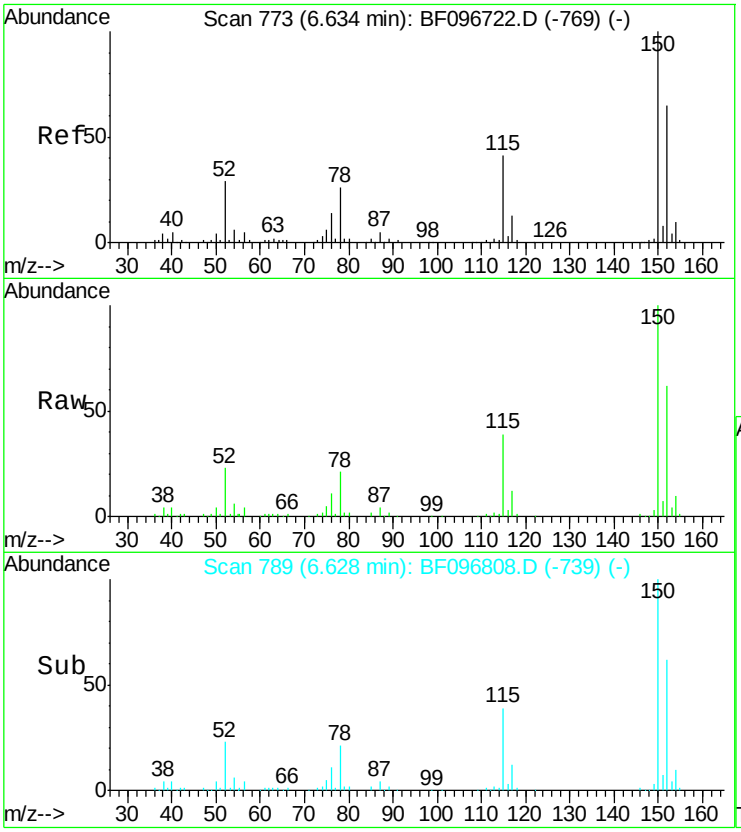
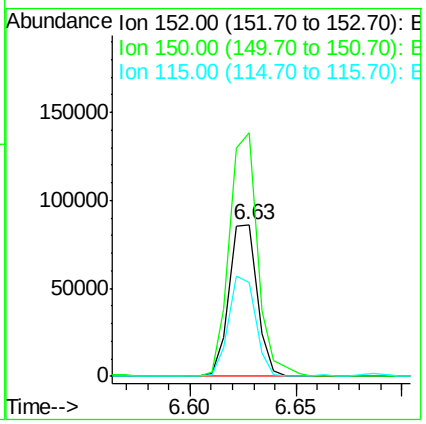





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.63 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:152 Resp: 78898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.3 | 126.2 | 189.2 |
| 115 | 61.9 | 52.2 | 78.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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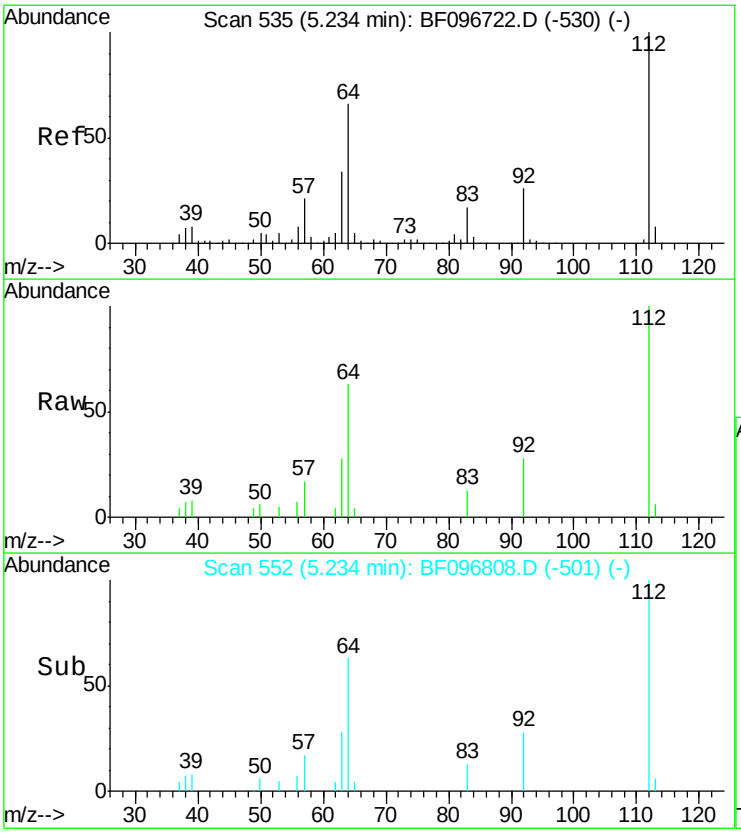
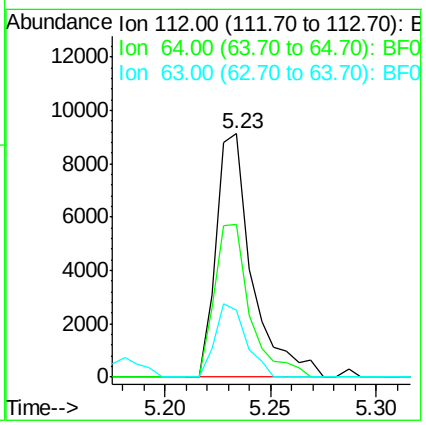
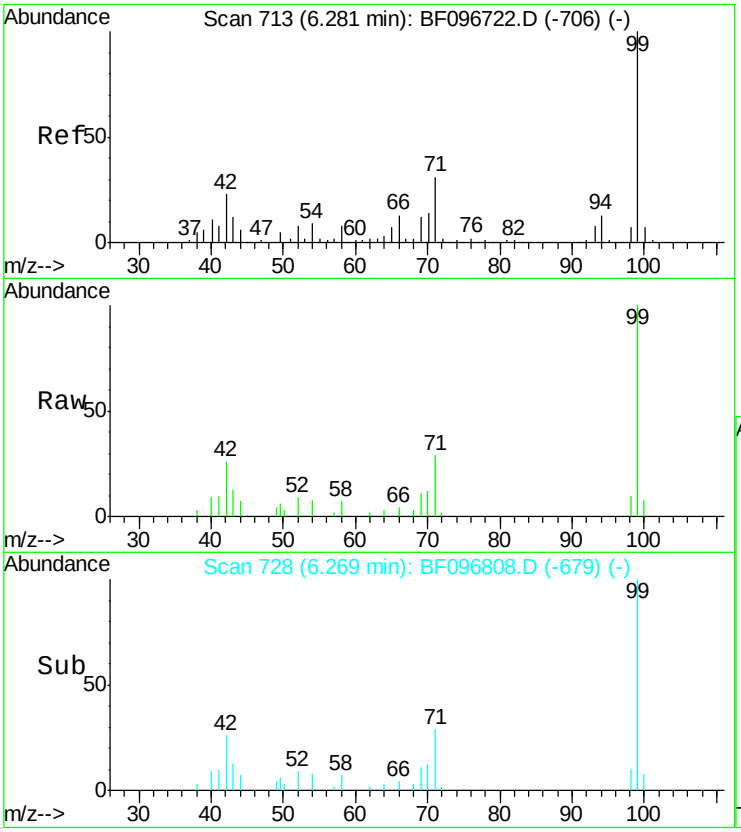



#5
2-Fluorophenol
Concen: 2.046 ng
RT: 5.23 min Scan# 552
Delta R.T. 0.00 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:112 Resp: 10738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 62.9 | 46.0 | 69.0 |
| 63 | 27.7 | 23.4 | 35.0 |

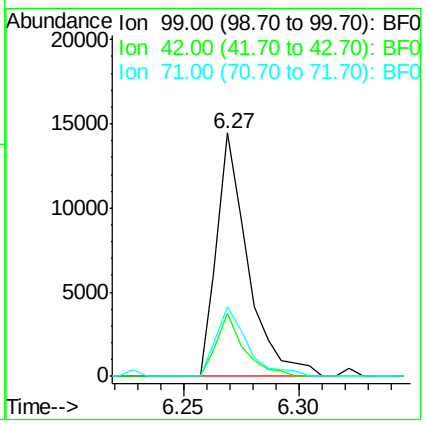





#7
Phenol-d6
Concen: 2.155 ng
RT: 6.27 min Scan# 728
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion: 99 Resp: 13567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.7 | 13.5 | 20.3# |
| 71 | 28.8 | 24.5 | 36.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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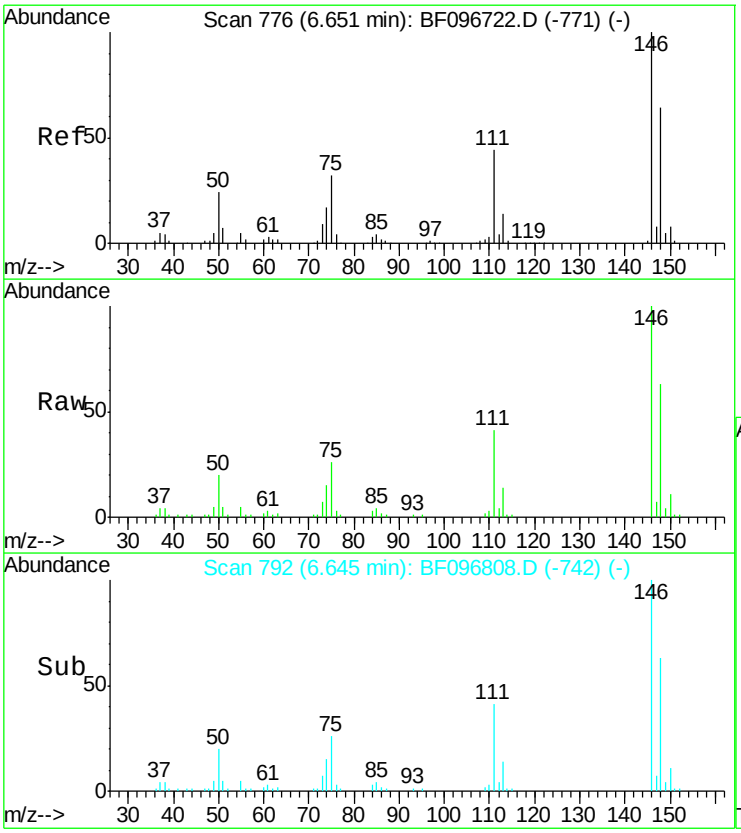
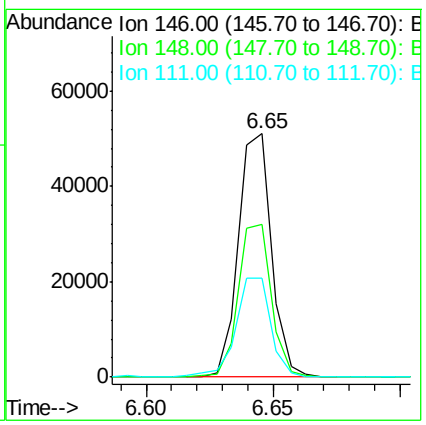
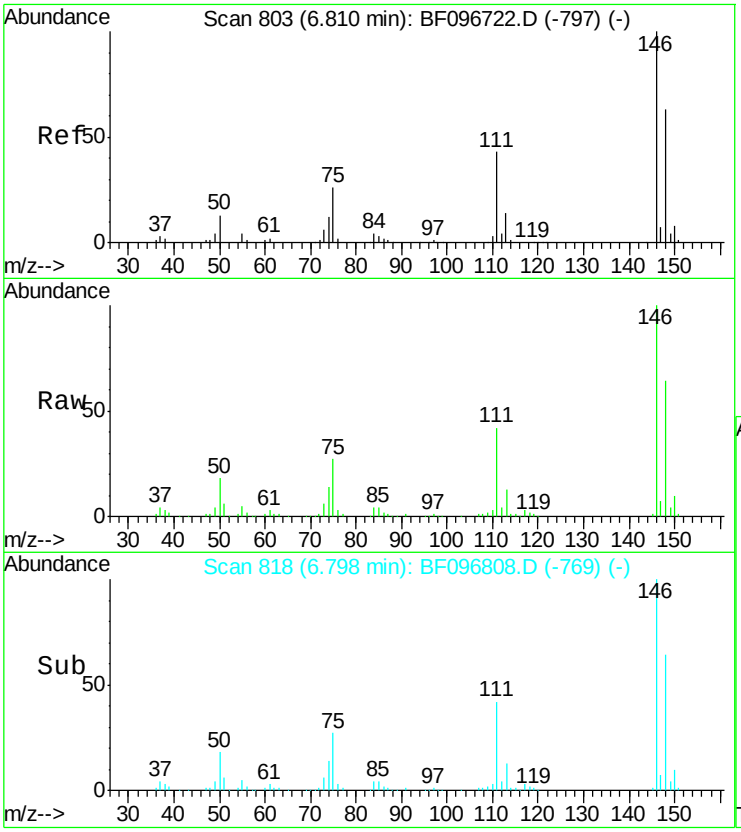



#13
1,4-Dichlorobenzene
Concen: 7.579 ng
RT: 6.65 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:146 Resp: 46185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.5 | 52.2 | 78.2 |
| 111 | 40.8 | 30.3 | 45.5 |

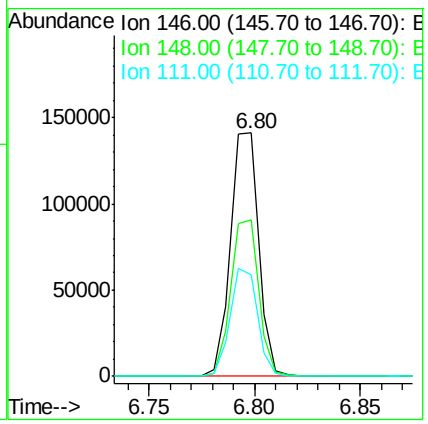





#14
1,2-Dichlorobenzene
Concen: 23.398 ng
RT: 6.80 min Scan# 818
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:146 Resp: 129687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.4 | 50.4 | 75.6 |
| 111 | 41.9 | 38.2 | 57.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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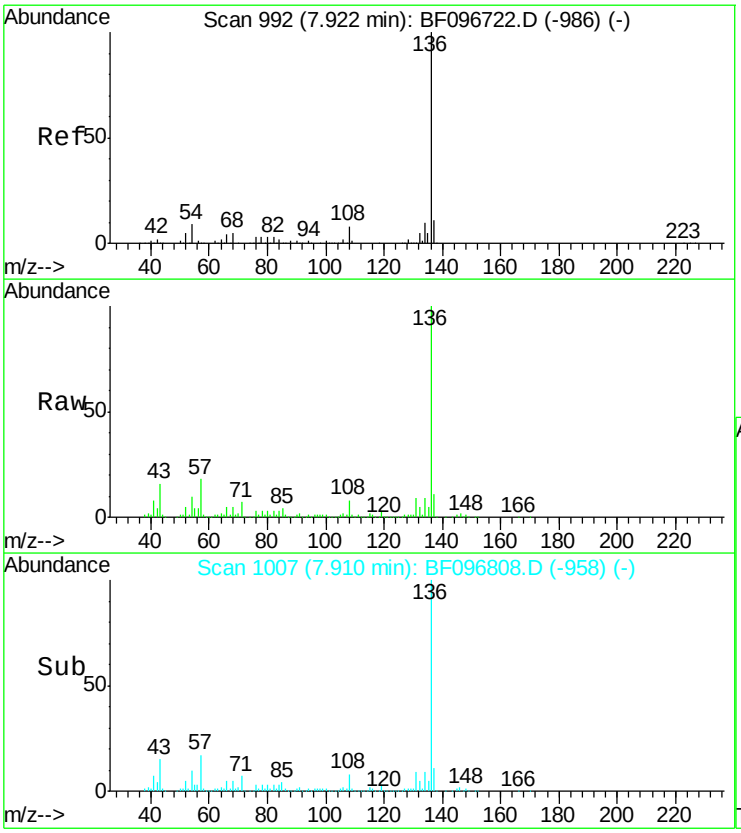
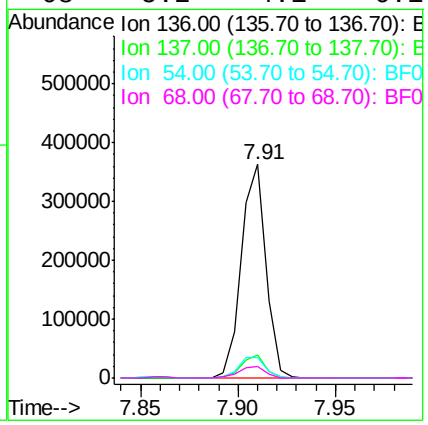
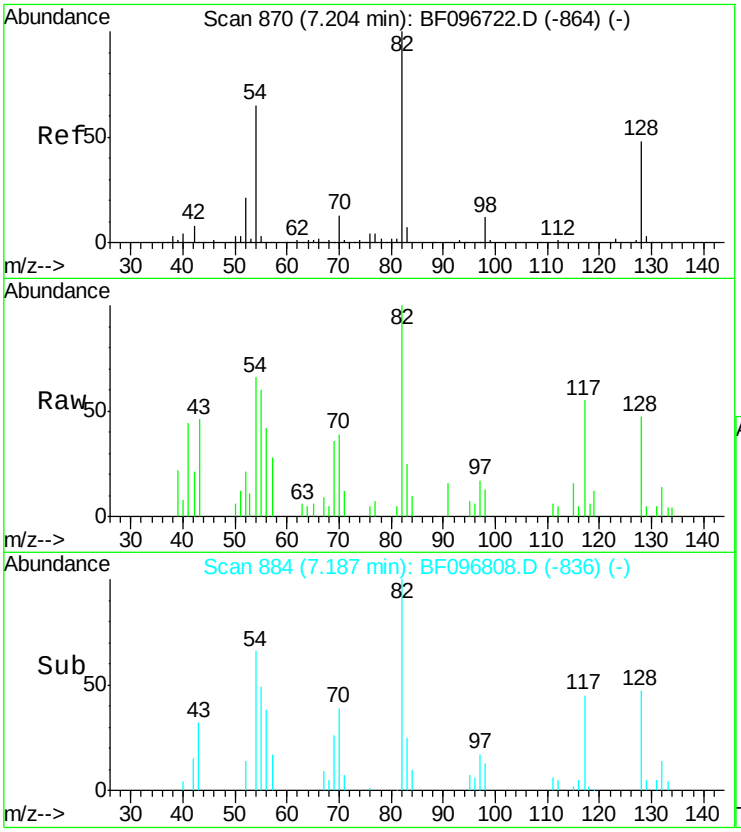



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.91 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:136 Resp: 315084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.5 | 12.7 |
| 54 | 9.9 | 4.9 | 7.3# |
| 68 | 5.2 | 4.1 | 6.1 |

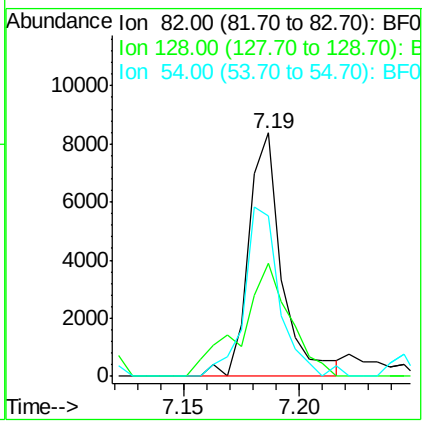





#23
Nitrobenzene-d5
Concen: 1.655 ng
RT: 7.19 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion: 82 Resp: 8420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.5 | 34.0 | 51.0 |
| 54 | 66.0 | 42.2 | 63.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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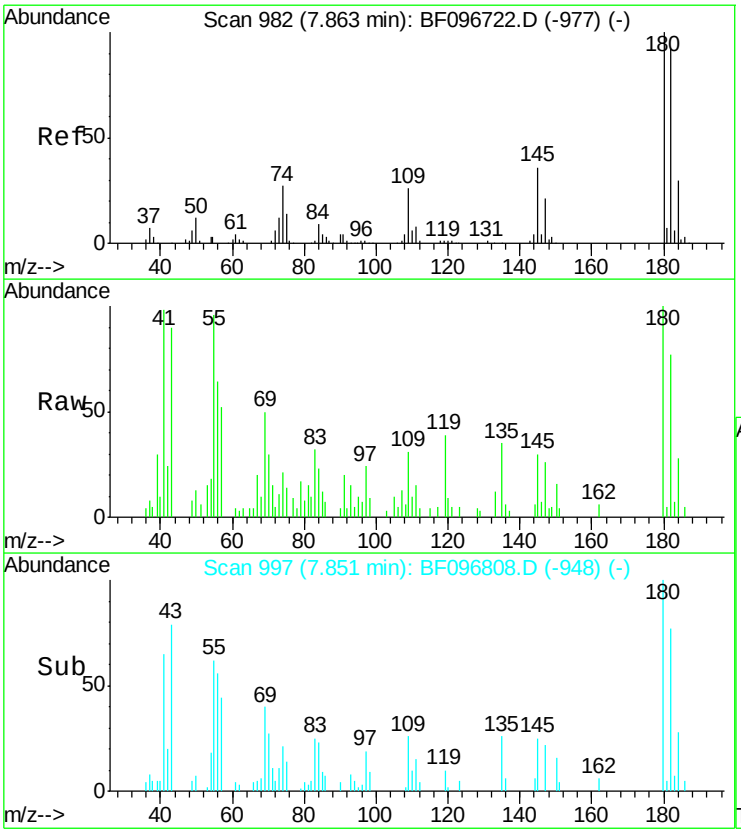
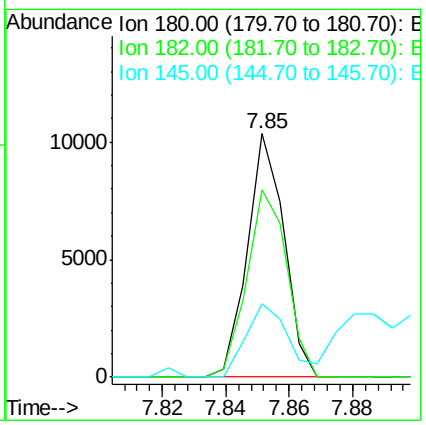
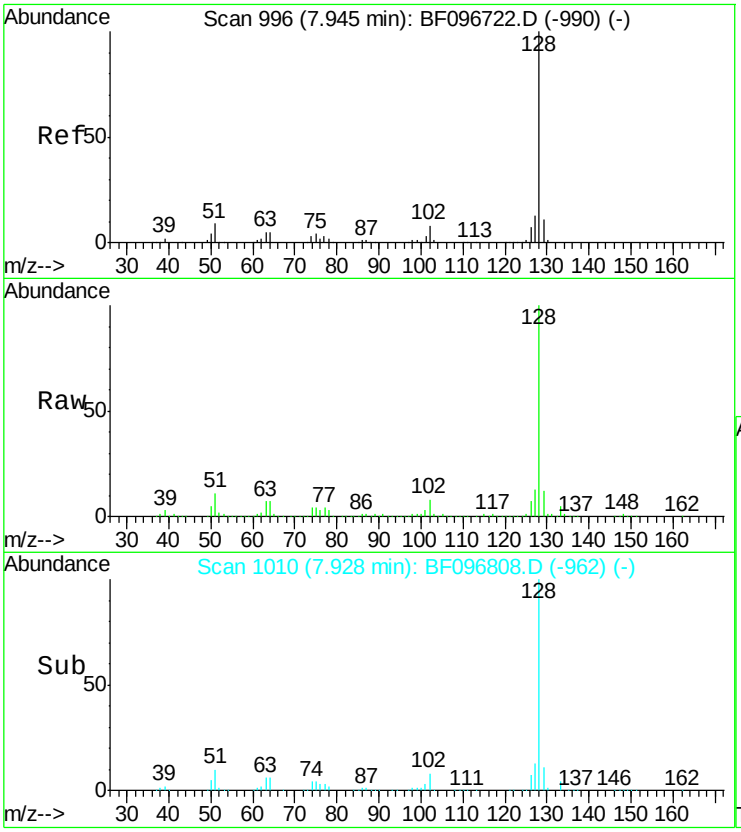



#30
1,2,4-Trichlorobenzene
Concen: 2.002 ng
RT: 7.85 min Scan# 997
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:180 Resp: 8293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 77.2 | 75.8 | 113.6 |
| 145 | 30.2 | 25.3 | 37.9 |

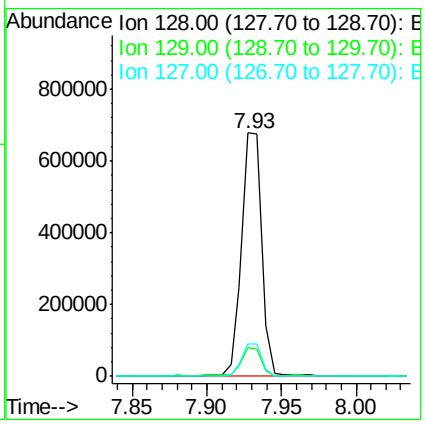





#31
Naphthalene
Concen: 42.657 ng
RT: 7.93 min Scan# 1010
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:128 Resp: 636702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.6 | 9.0 | 13.6 |
| 127 | 13.1 | 10.8 | 16.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

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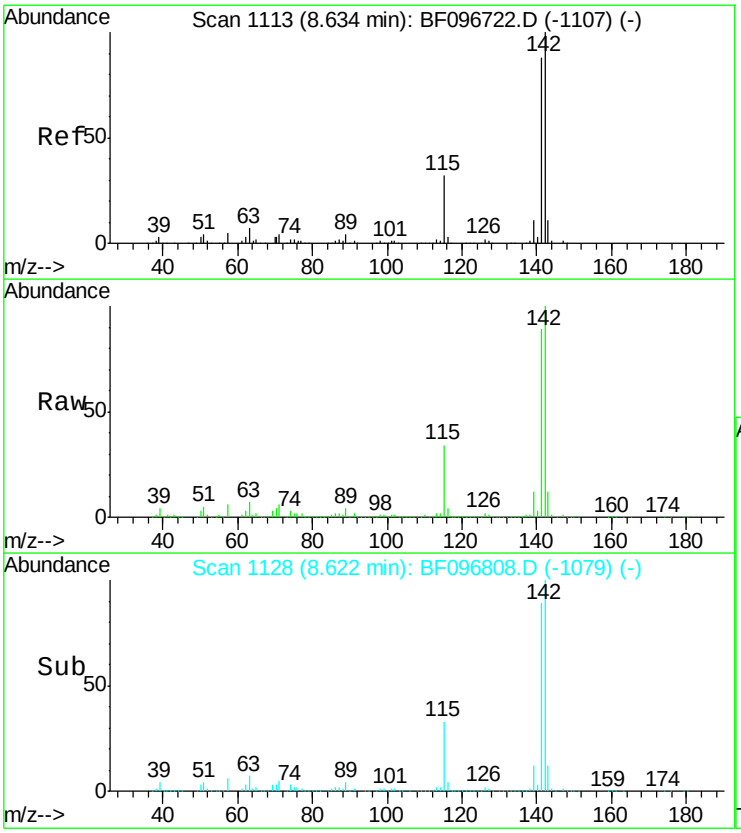
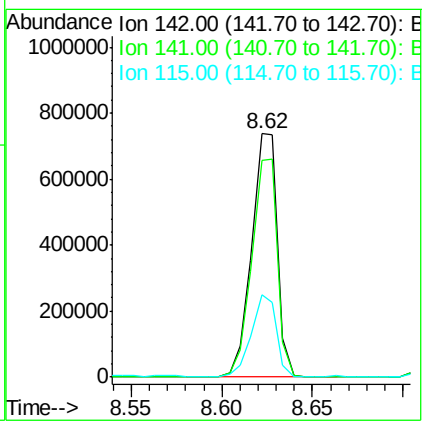
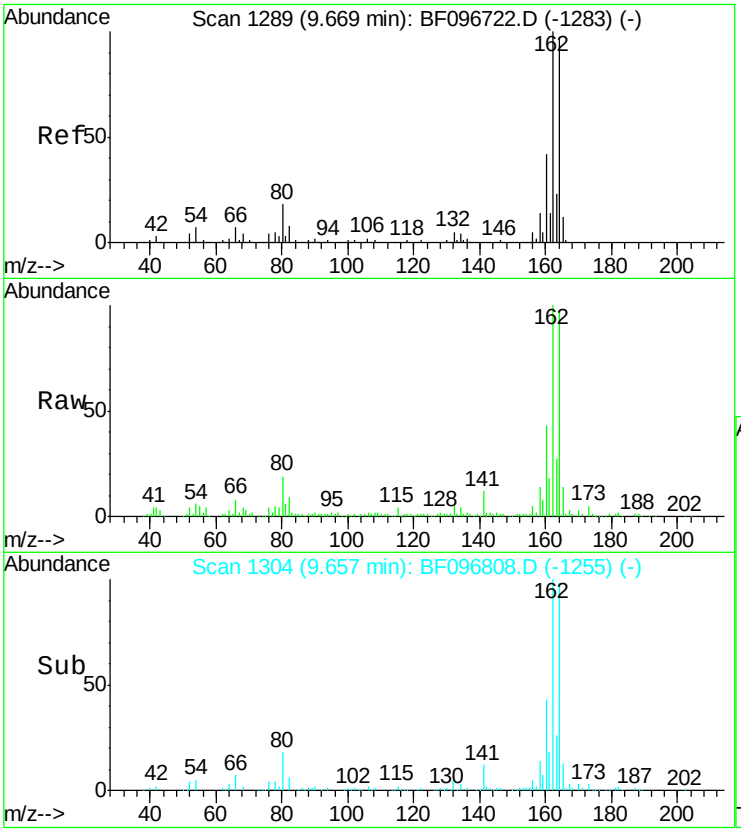



#37
2-Methylnaphthalene
Concen: 76.511 ng
RT: 8.62 min Scan# 1128
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:142 Resp: 728073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 71.3 | 106.9 |
| 115 | 33.6 | 27.1 | 40.7 |

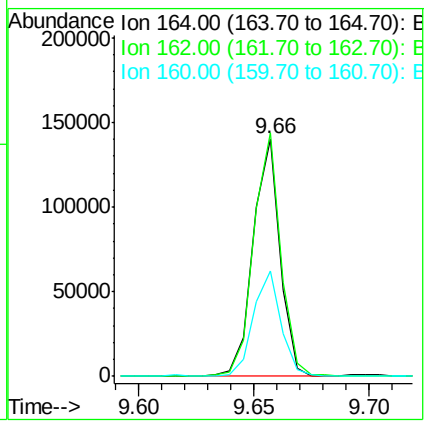





#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.66 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:164 Resp: 114617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.6 | 82.6 | 123.8 |
| 160 | 44.3 | 36.2 | 54.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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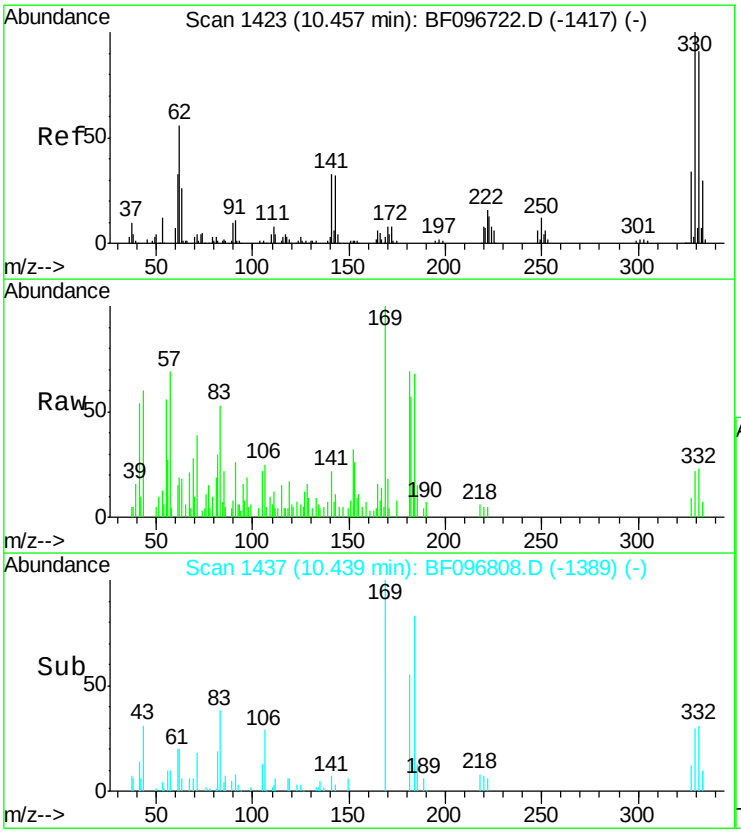
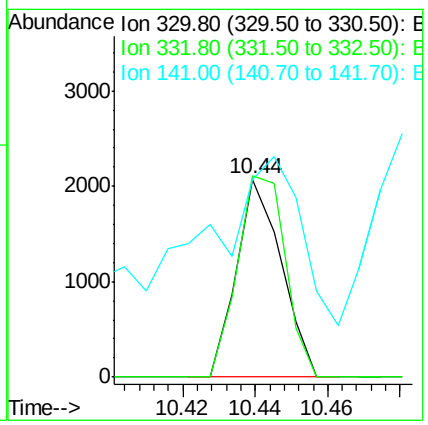
7/17/2017 3:58:03 PM

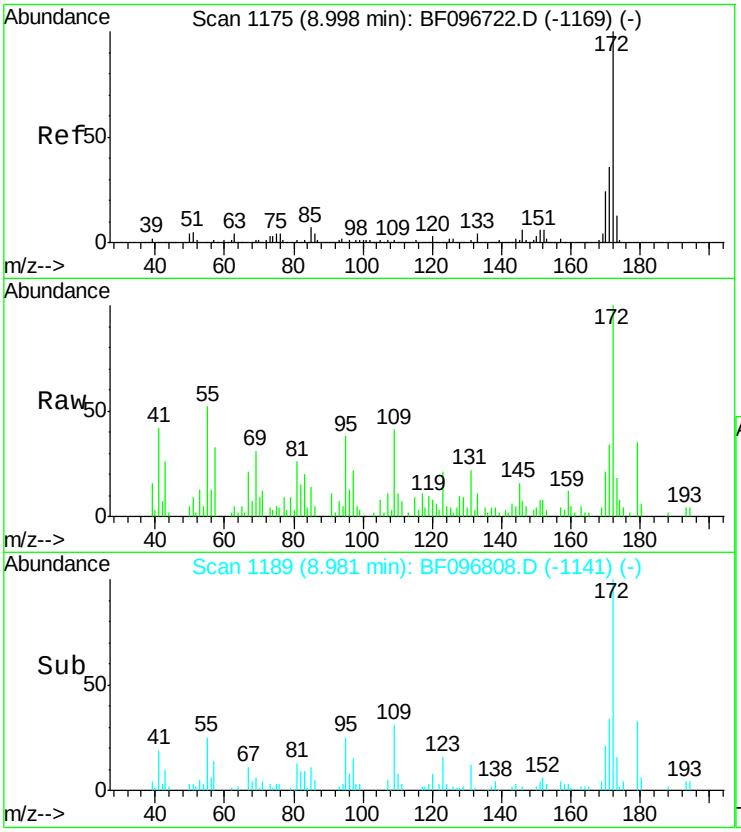



#41
2,4,6-Tribromophenol
Concen: 1.817 ng
RT: 10.44 min Scan# 1437
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:330 Resp: 1778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 109.3 | 76.6 | 115.0 |
| 141 | 198.8 | 31.4 | 47.2# |

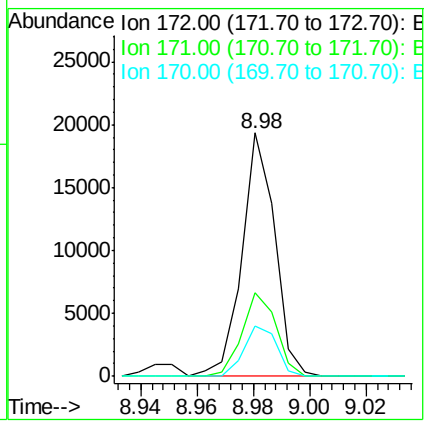





#44
2-Fluorobiphenyl
Concen: 2.147 ng
RT: 8.98 min Scan# 1189
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:172 Resp: 15573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.3 | 29.6 | 44.4 |
| 170 | 20.7 | 19.8 | 29.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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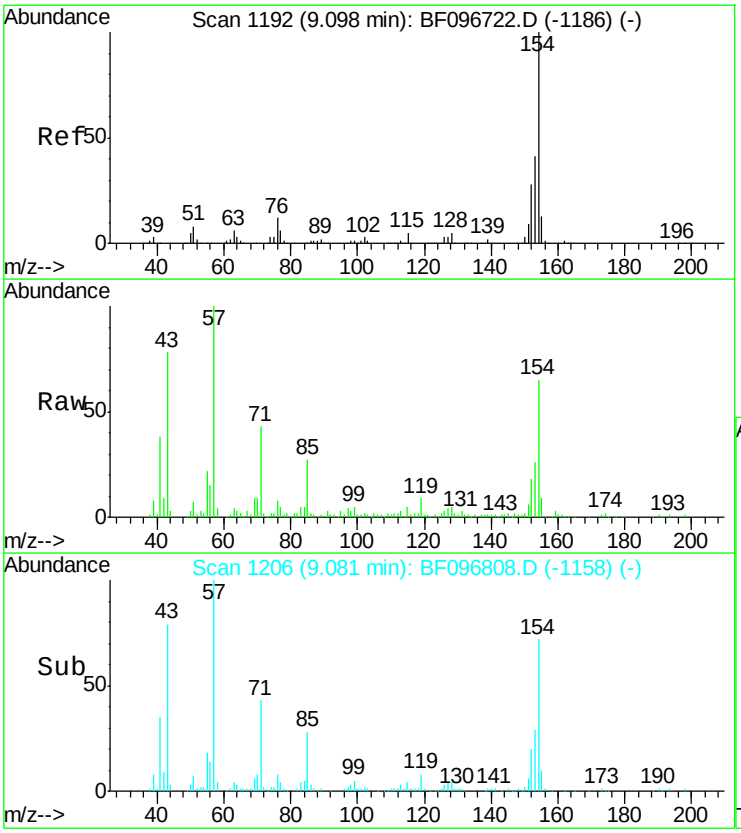
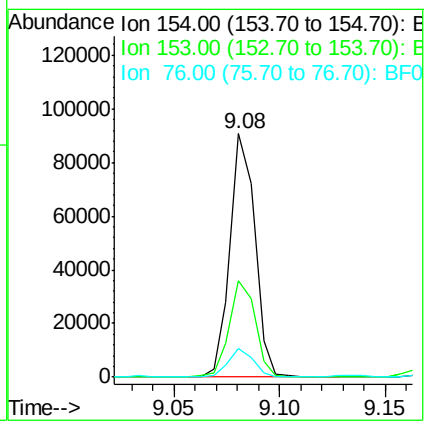
7/17/2017 3:58:03 PM

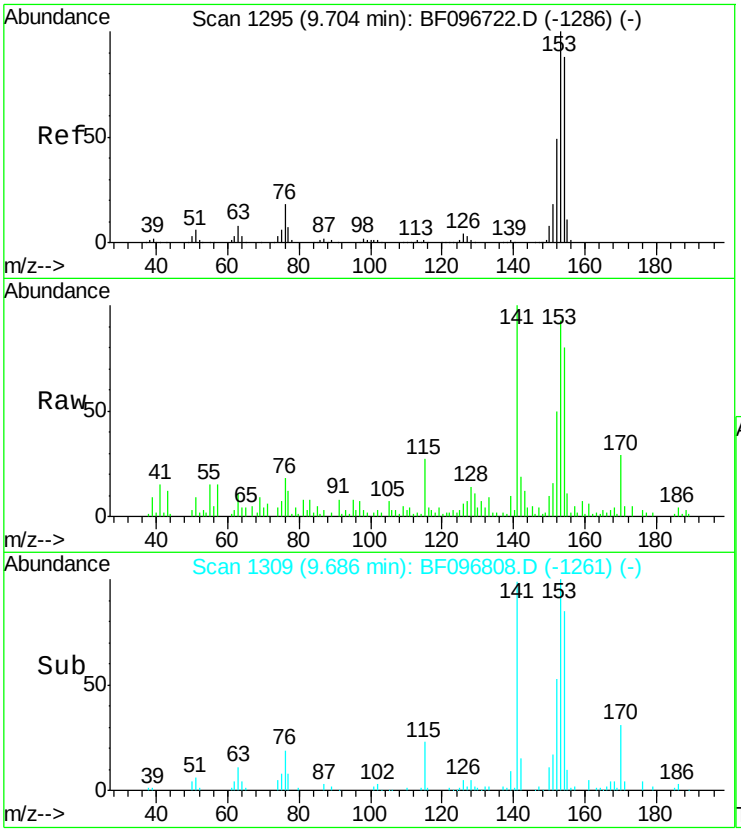



#45
1,1'-Biphenyl
Concen: 7.529 ng
RT: 9.08 min Scan# 1206
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:154 Resp: 74015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.7 | 21.2 | 61.2 |
| 76 | 11.8 | 0.0 | 29.9 |

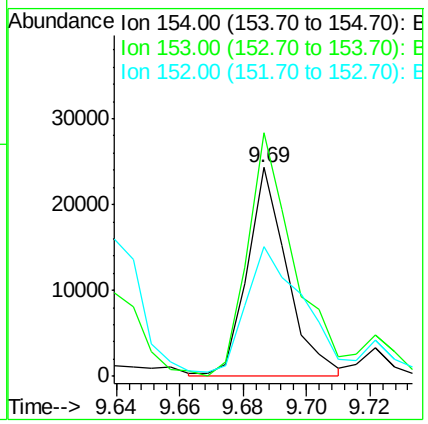





#51
Acenaphthene
Concen: 3.095 ng
RT: 9.69 min Scan# 1309
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:154 Resp: 21084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.5 | 90.5 | 135.7 |
| 152 | 62.0 | 43.6 | 65.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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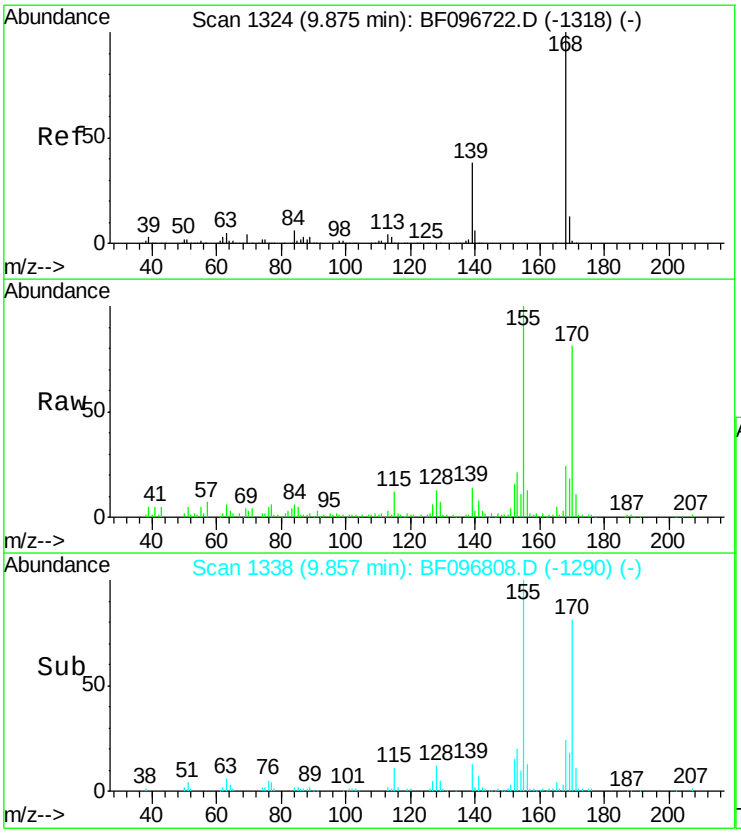
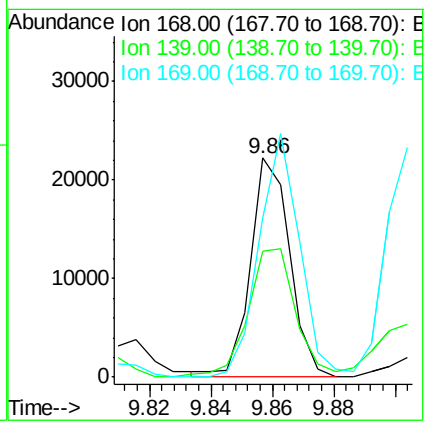
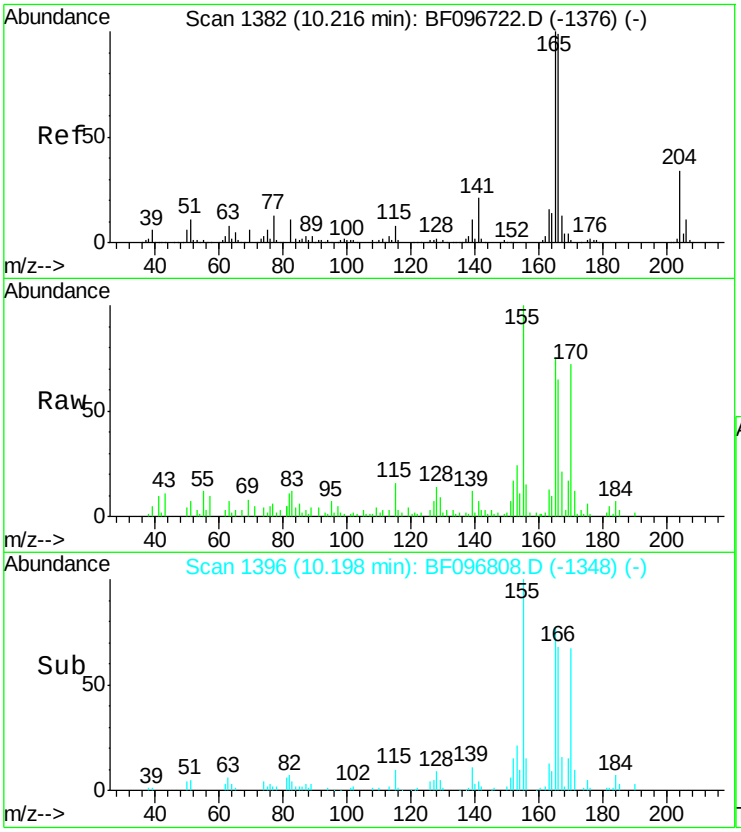



#54
Dibenzofuran
Concen: 2.051 ng m
RT: 9.86 min Scan# 1338
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:168 Resp: 19581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 57.3 | 30.6 | 45.8# |
| 169 | 72.5 | 10.8 | 16.2# |

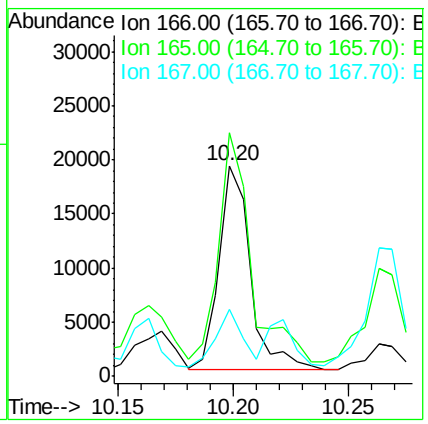





#57
Fluorene
Concen: 2.534 ng
RT: 10.20 min Scan# 1396
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:166 Resp: 17880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 115.8 | 78.8 | 118.2 |
| 167 | 32.0 | 10.6 | 16.0# |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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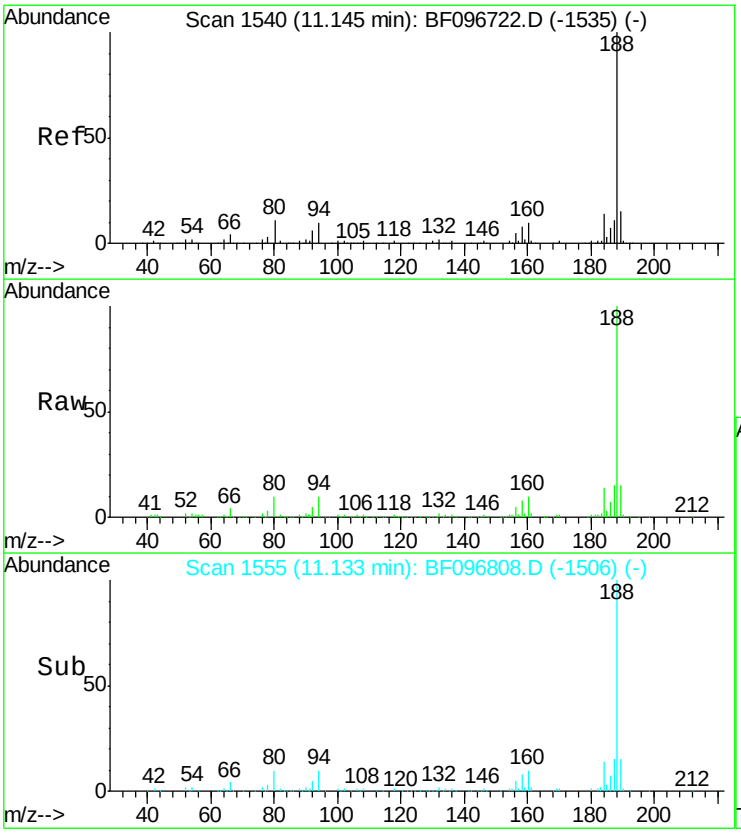
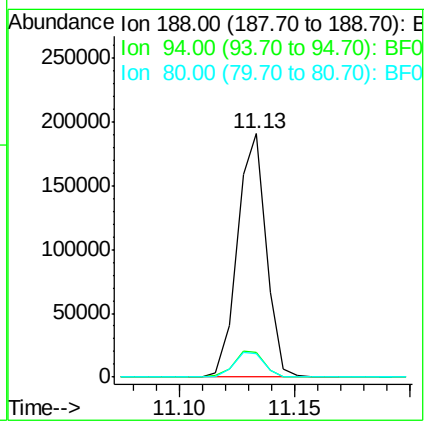
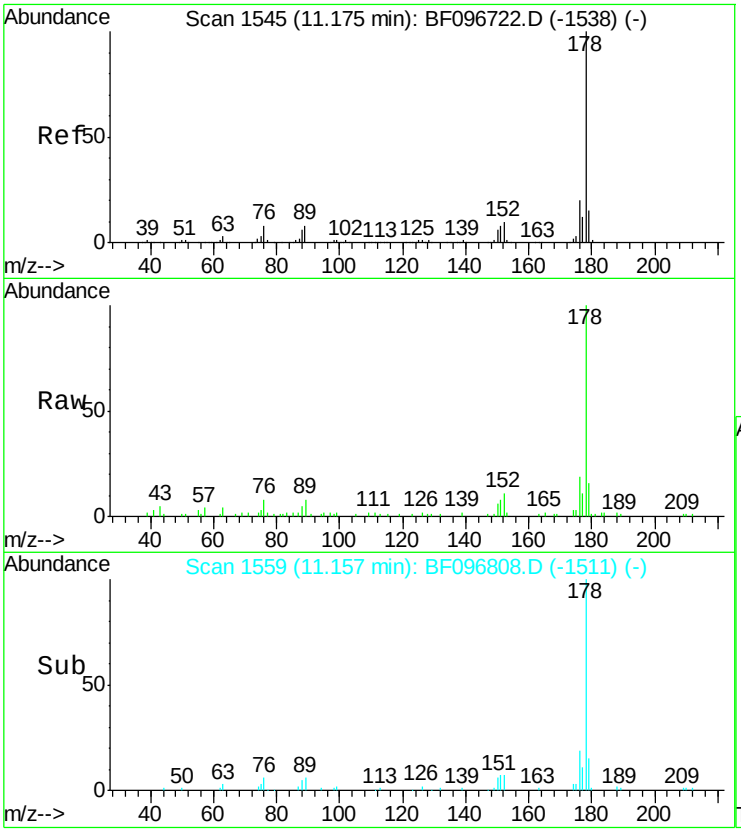



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.13 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:188 Resp: 165350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.4 | 9.4 | 14.2 |
| 80 | 9.7 | 10.2 | 15.2# |

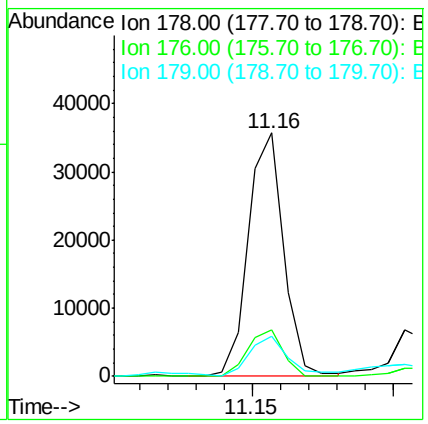





#70
Phenanthrene
Concen: 3.464 ng
RT: 11.16 min Scan# 1559
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:178 Resp: 31146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 16.2 | 24.4 |
| 179 | 16.3 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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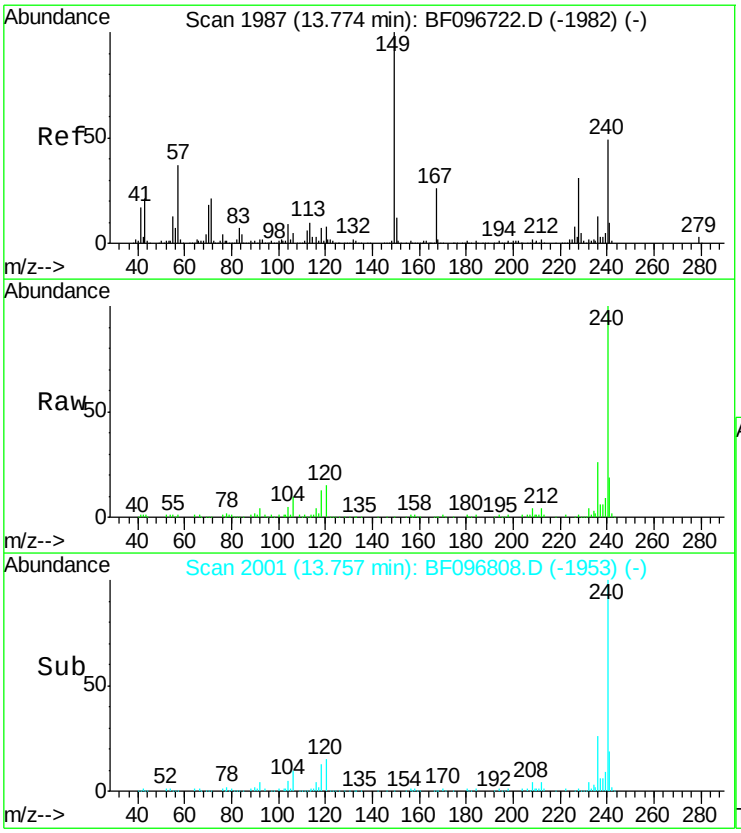
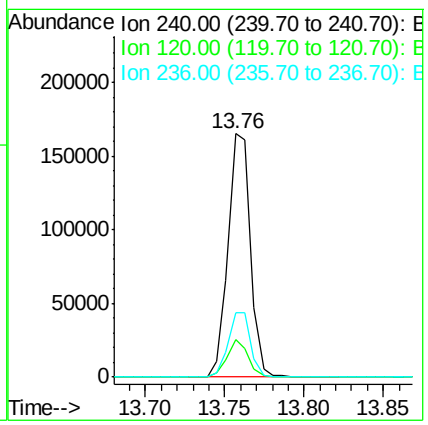
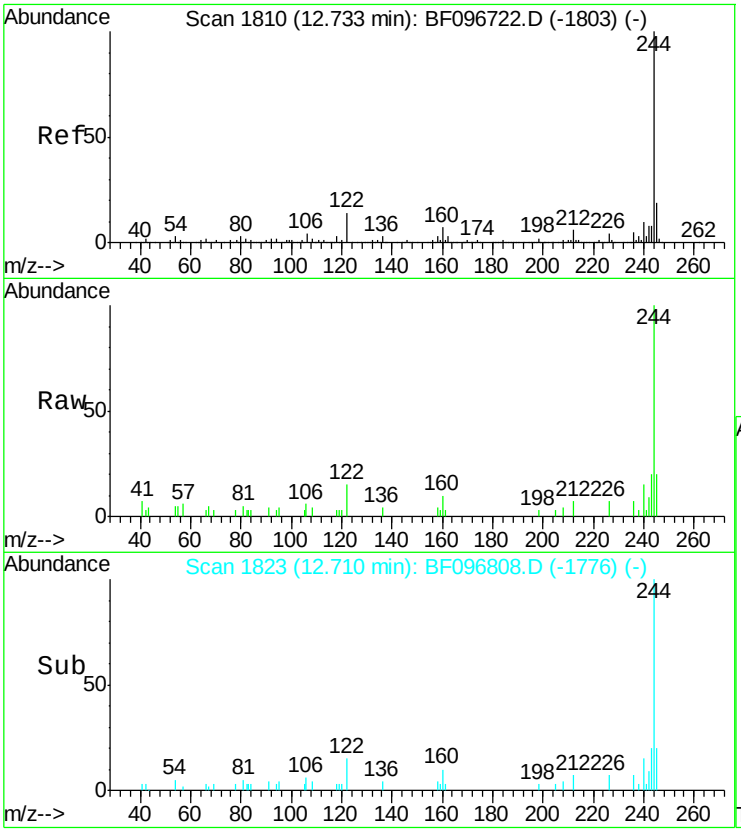



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.76 min Scan# 2001
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:240 Resp: 162145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.2 | 5.8 | 8.8# |
| 236 | 26.3 | 20.5 | 30.7 |

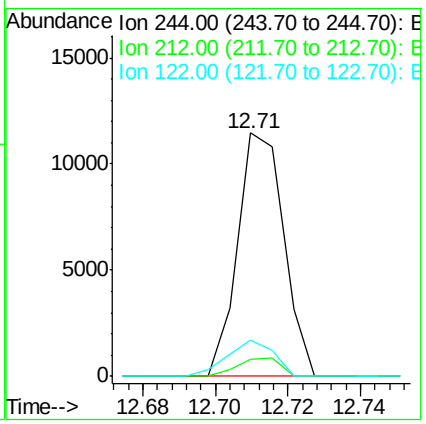





#78
Terphenyl-d14
Concen: 1.080 ng
RT: 12.71 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:244 Resp: 10099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 6.0 | 9.0 |
| 122 | 14.7 | 10.3 | 15.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-P6-NSWDL2

**Manual Integrations APPROVED**
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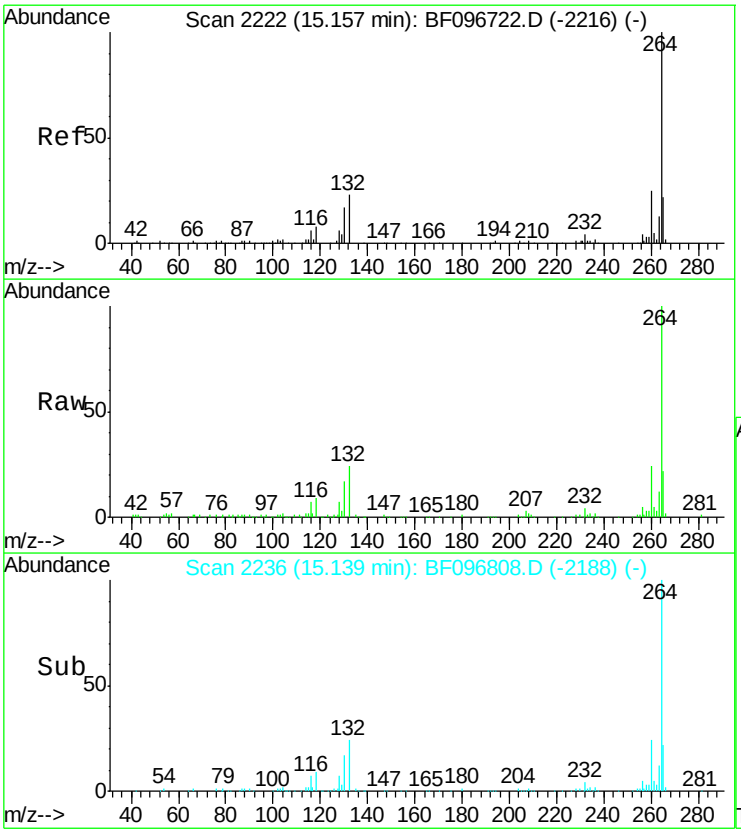


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.14 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:264 Resp: 113971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.2 | 19.5 | 29.3 |
| 265 | 22.4 | 17.2 | 25.8 |