Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062816\
Data File : BF088489.D
Acq On : 28 Jun 2016 20:07
Operator : UM/SJ
Sample : H3602-07DL2 50X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** Q8-B4(0-2)CDL2

Quant Time: Jun 29 01:28:45 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 28 05:25:55 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.51 | 152 | 97401 | 20.00 | ng | | -0.03 |
| 21) Naphthalene-d8 | 7.80 | 136 | 426886 | 20.00 | ng | | -0.03 |
| 38) Acenaphthene-d10 | 9.55 | 164 | 198235 | 20.00 | ng | | -0.03 |
| 63) Phenanthrene-d10 | 11.03 | 188 | 341202 | 20.00 | ng | | -0.03 |
| 75) Chrysene-d12 | 13.66 | 240 | 261187 | 20.00 | ng | | -0.03 |
| 86) Perylene-d12 | 15.01 | 264 | 185162 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.16 | 112 | 11150 | 1.96 | ng | | 0.03 |
| 7) Phenol-d6 | 6.23 | 99 | 21764 | 3.15 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.13 | 82 | 12079 | 1.65 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.35 | 330 | 4063 | 1.94 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 8.89 | 172 | 23090 | -3.97 | ng | | -0.03 |
| 78) Terphenyl-d14 | 12.62 | 244 | 19798 | 1.72 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 1.68 | 88 | 112092 | 40.49 | ng | # | 96 |
| 45) 1,1'-Biphenyl | 8.99 | 154 | 15005 | Below Cal | | | 93 |
| 48) Acenaphthylene | 9.59 | 152 | 117239 | 5.75 | ng | # | 1 |
| 50) 2,6-Dinitrotoluene | 9.55 | 165 | 26562 | 8.08 | ng | # | 40 |
| 51) Acenaphthene | 9.59 | 154 | 218532 | 17.17 | ng | | 99 |
| 54) Dibenzofuran | 9.76 | 168 | 164231 | 9.37 | ng | | 94 |
| 55) 4-Nitrophenol | 9.76 | 139 | 57728 | 19.60 | ng | # | 6 |
| 57) Fluorene | 10.10 | 166 | 170141 | 10.68 | ng | | 98 |
| 70) Phenanthrene | 11.06 | 178 | 593549 | 33.15 | ng | | 97 |
| 71) Anthracene | 11.11 | 178 | 148444 | 8.22 | ng | | 97 |
| 74) Fluoranthene | 12.24 | 202 | 371851 | 19.68 | ng | | 97 |
| 77) Pyrene | 12.47 | 202 | 230502 | 11.89 | ng | | 99 |
| 80) Benzo(a)anthracene | 13.66 | 228 | 46394 | 3.12 | ng | | 95 |
| 82) Chrysene | 13.66 | 228 | 46394 | 3.31 | ng | # | 91 |
| 88) Benzo(k)fluoranthene | 14.66 | 252 | 20542 | 2.11 | ng | | 99 |

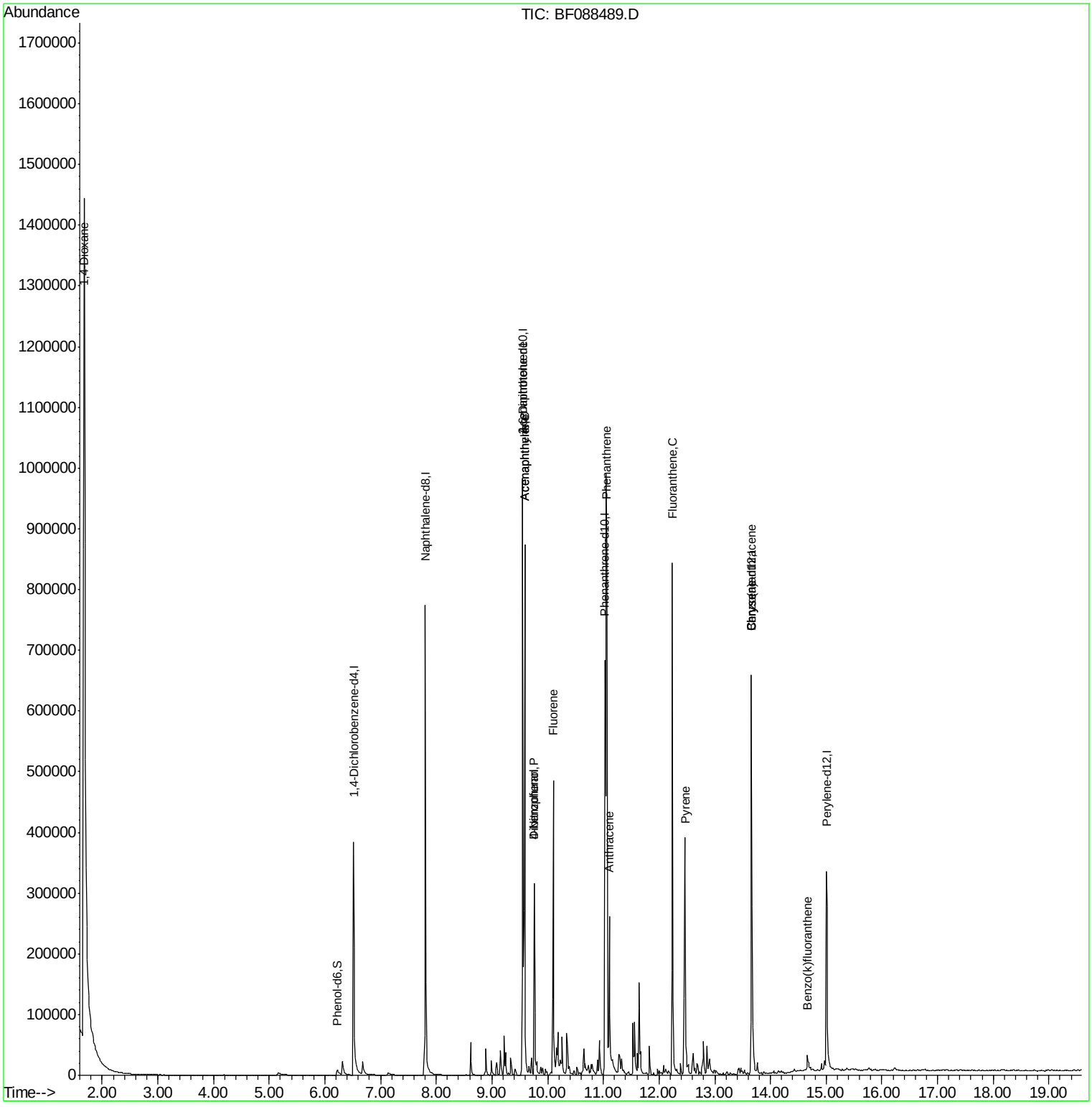
(#) = qualifier out of range (m) = manual integration (+) = signals summed

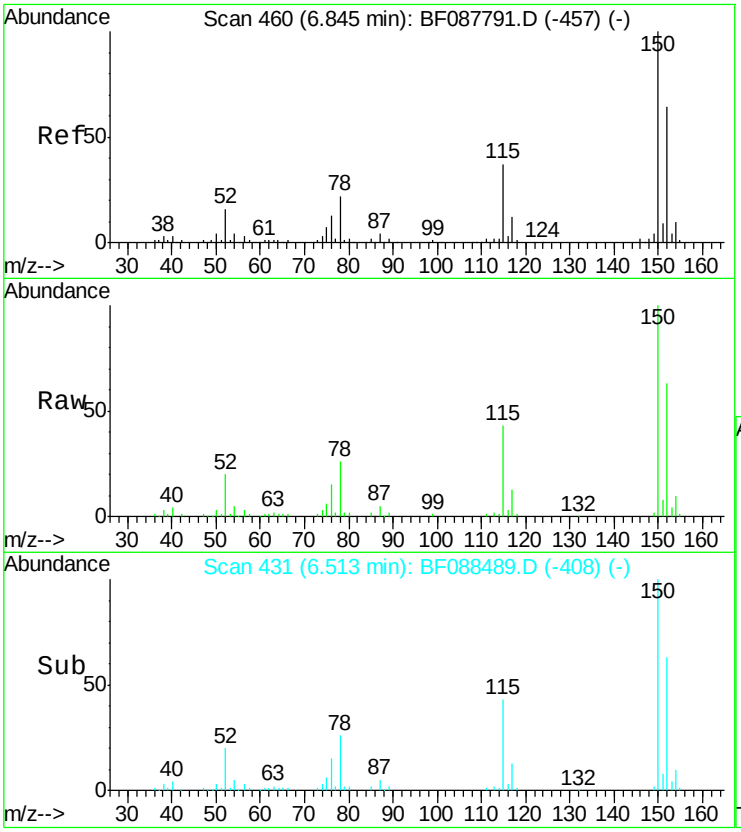
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062816\
Data File : BF088489.D
Acq On : 28 Jun 2016 20:07
Operator : UM/SJ
Sample : H3602-07DL2 50X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Quant Time: Jun 29 01:28:45 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 28 05:25:55 2016
Response via : Initial Calibration



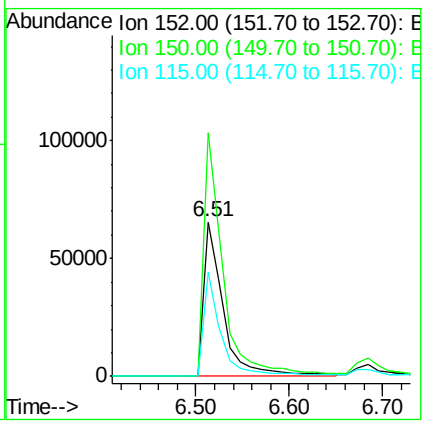


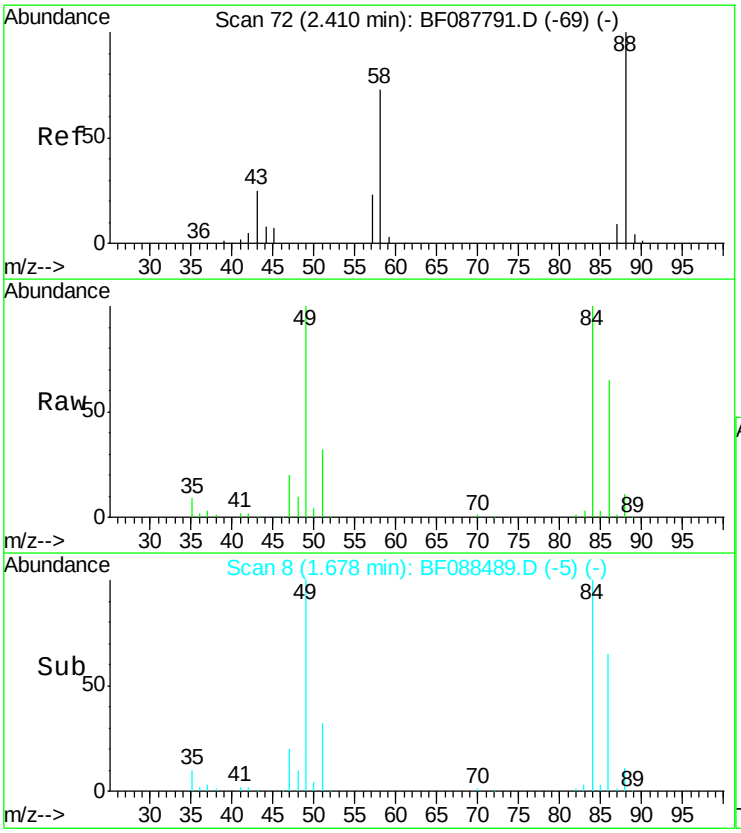

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.51 min Scan# 431
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:152 Resp: 97401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.0 | 123.8 | 185.6 |
| 115 | 67.2 | 39.6 | 59.4# |

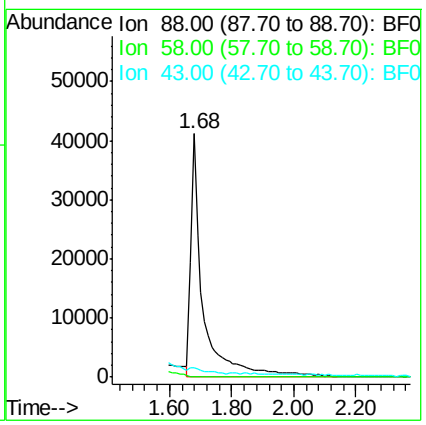


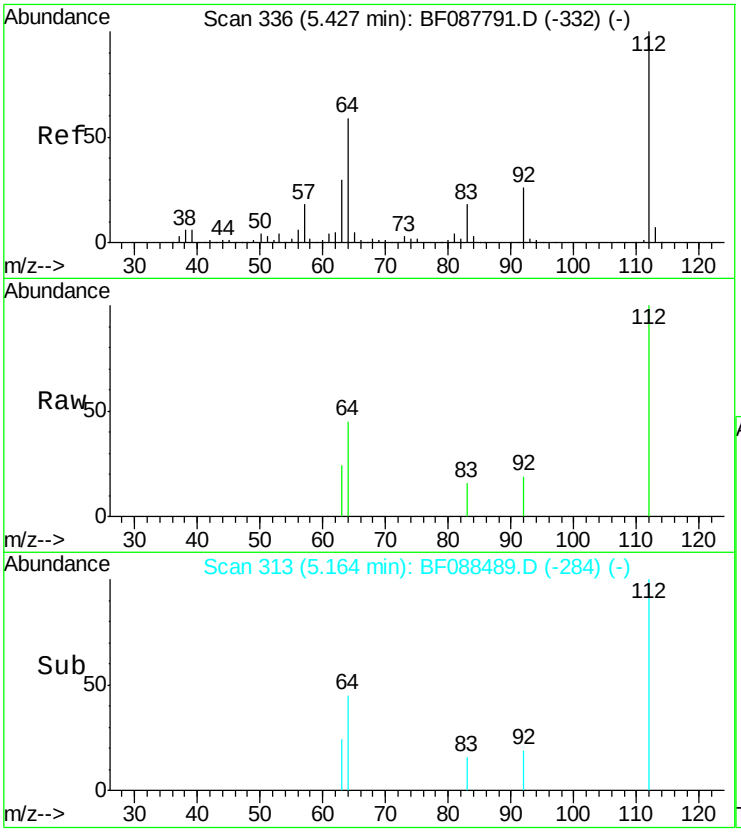




#2
1,4-Dioxane
Concen: 40.49 ng
RT: 1.68 min Scan# 8
Delta R.T. -0.26 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion: 88 Resp: 112092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 0.0 | 0.0 | 0.0 |
| 43 | 3.0 | 3.4 | 5.2# |



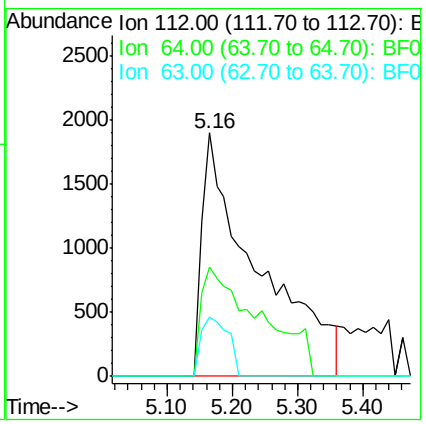


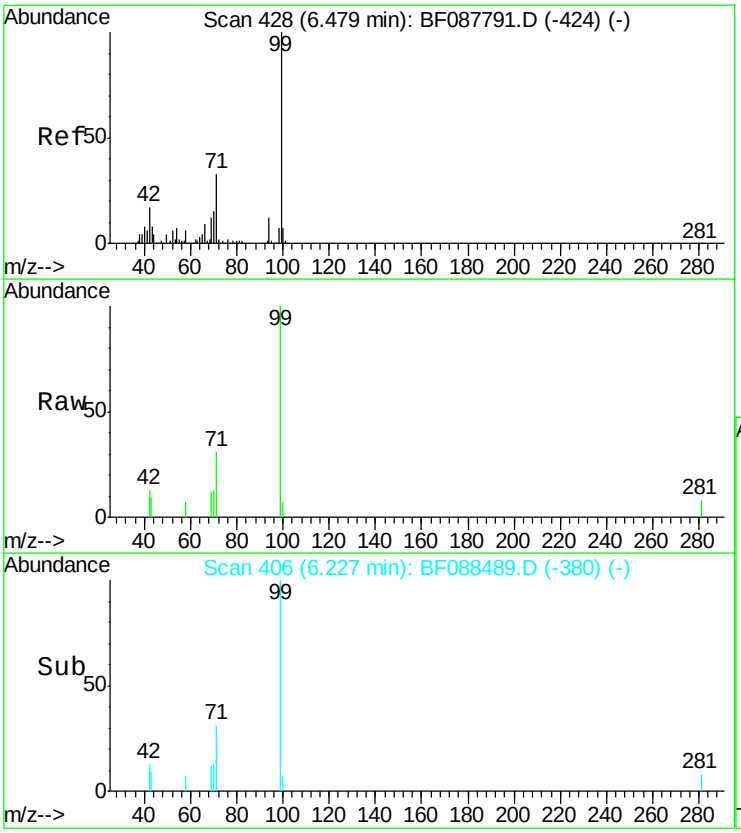

#5
2-Fluorophenol
Concen: 1.96 ng
RT: 5.16 min Scan# 313
Delta R.T. 0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:112 Resp: 11150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 44.9 | 42.2 | 63.2 |
| 63 | 24.3 | 21.8 | 32.8 |

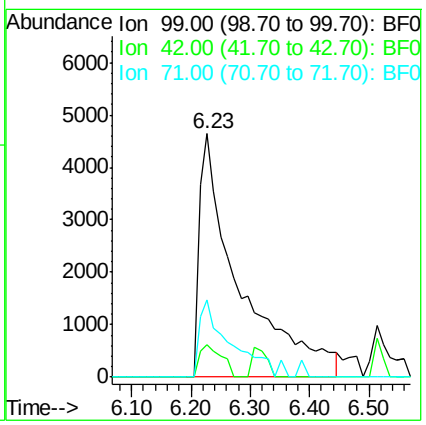


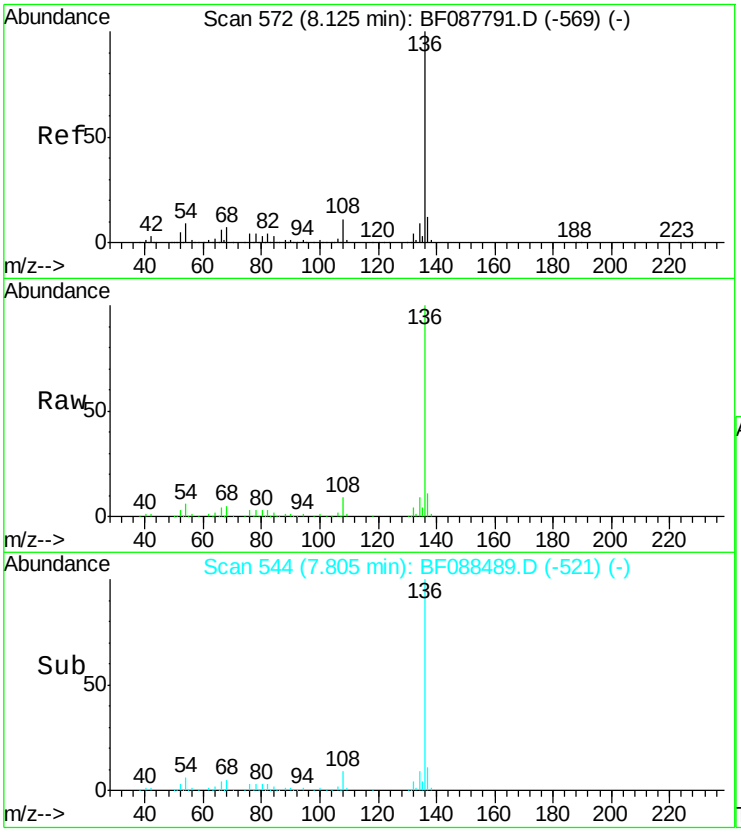




#7
Phenol-d6
Concen: 3.15 ng
RT: 6.23 min Scan# 406
Delta R.T. -0.00 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion: 99 Resp: 21764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.1 | 12.2 | 18.2 |
| 71 | 31.5 | 23.4 | 35.0 |



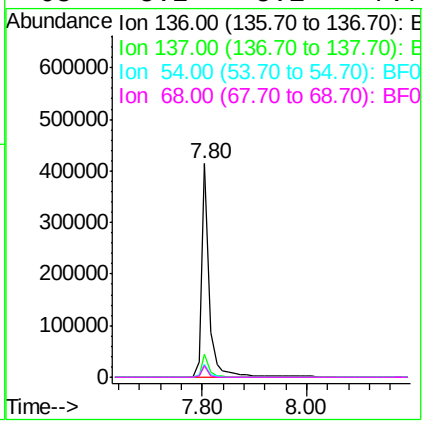


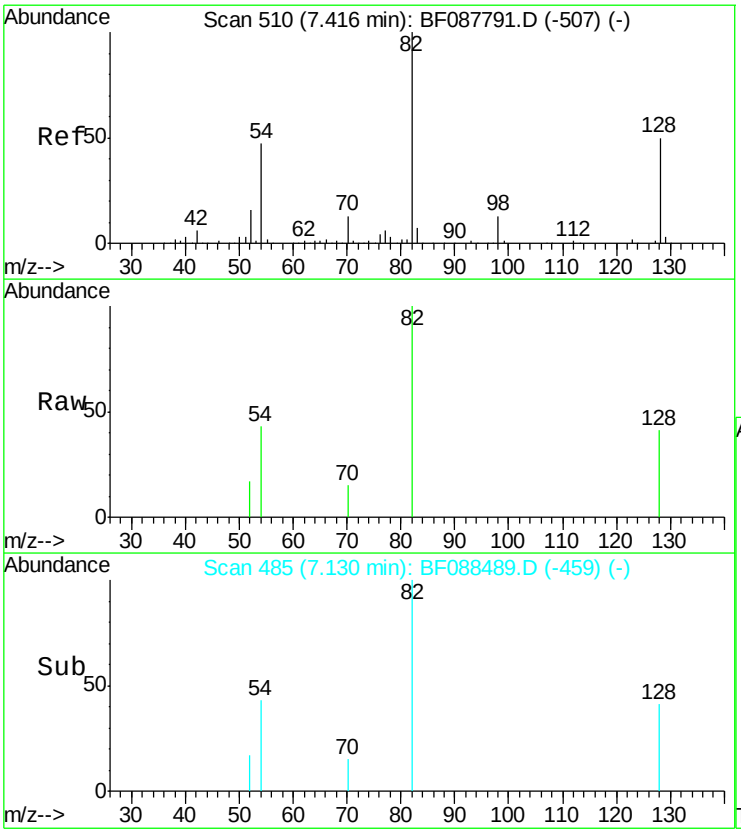

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.80 min Scan# 544
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:136 Resp: 426886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 9.1 | 13.7 |
| 54 | 5.9 | 6.6 | 10.0# |
| 68 | 5.2 | 5.1 | 7.7 |

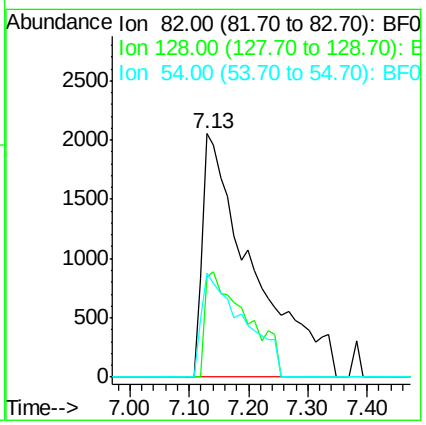


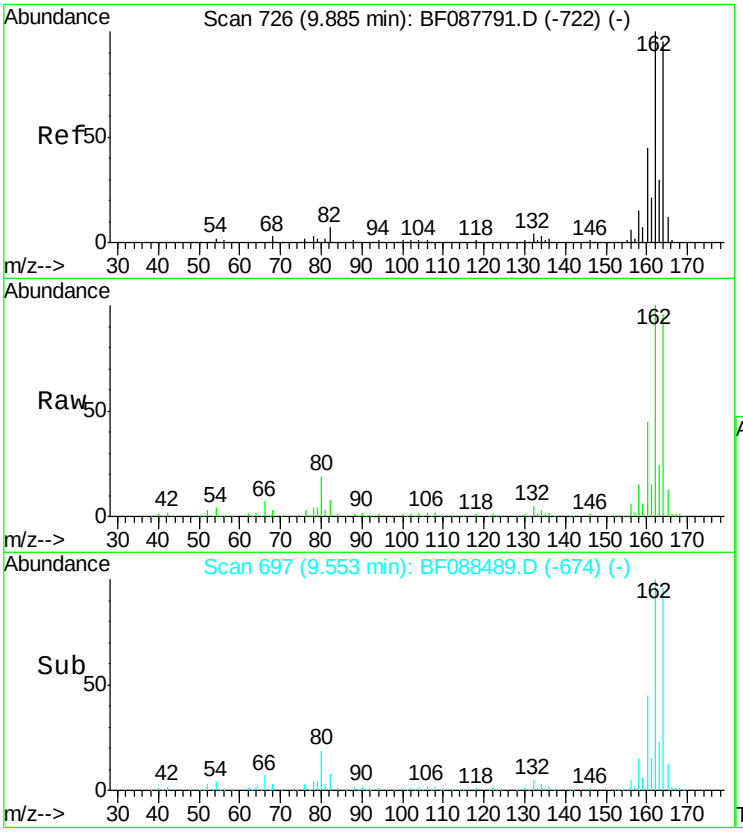




#23
Nitrobenzene-d5
Concen: 1.65 ng
RT: 7.13 min Scan# 485
Delta R.T. -0.00 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion: 82 Resp: 12079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 35.9 | 53.9 |
| 54 | 42.9 | 40.9 | 61.3 |



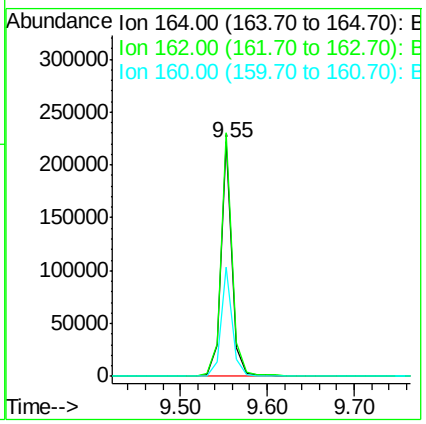


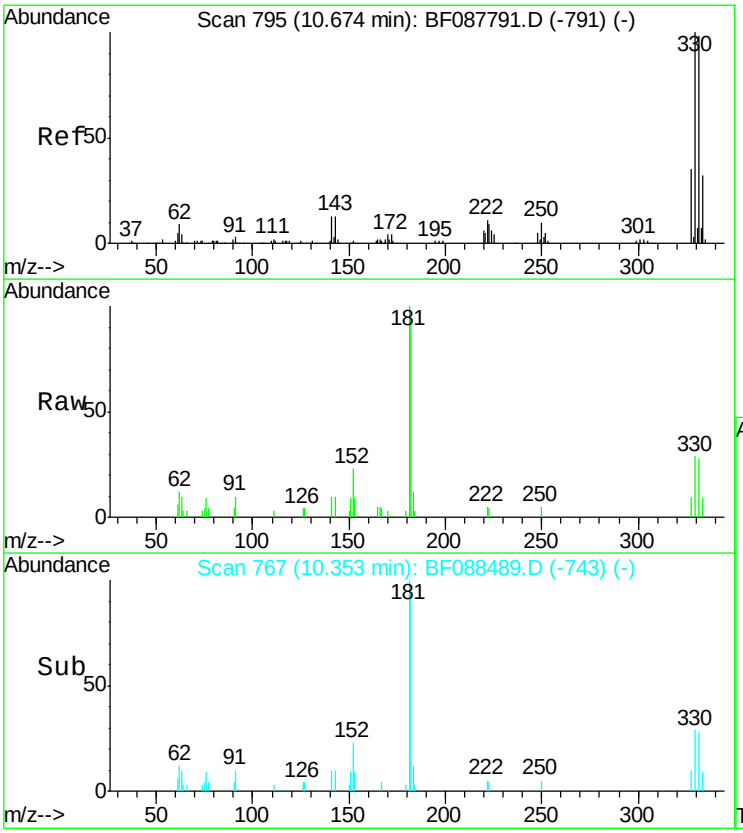

#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:164 Resp: 198235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.8 | 85.4 | 128.2 |
| 160 | 46.6 | 39.5 | 59.3 |

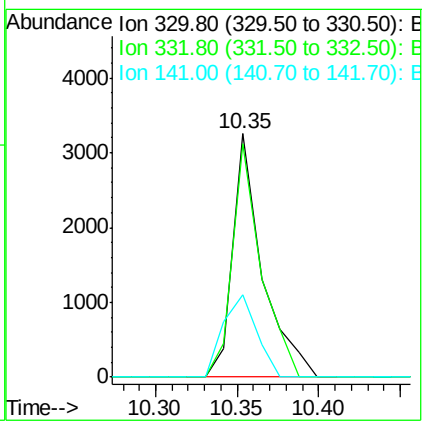


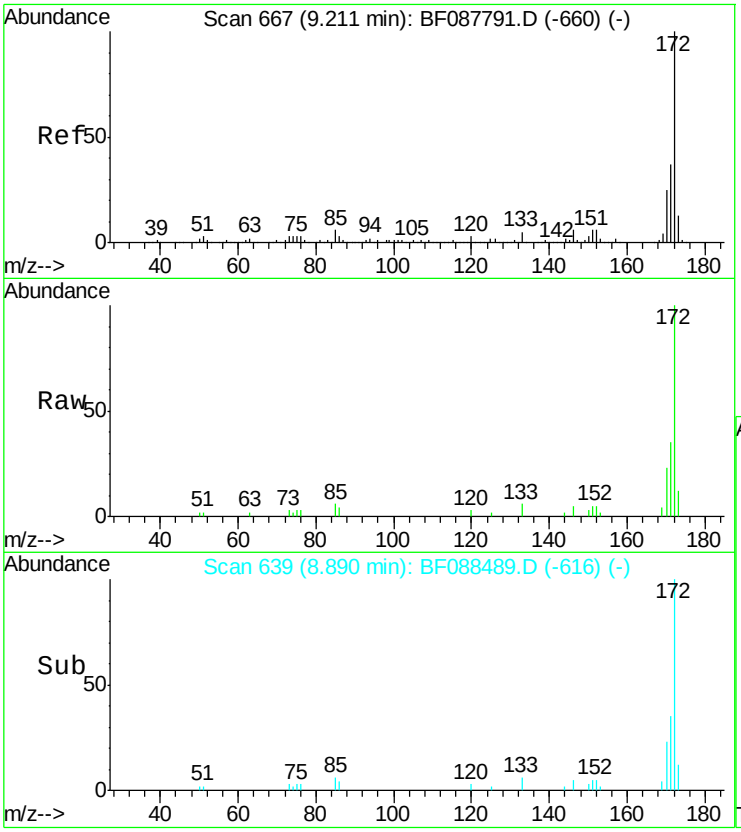




#41
2,4,6-Tribromophenol
Concen: 1.94 ng
RT: 10.35 min Scan# 767
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:330 Resp: 4063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.1 | 0.0 | 0.0# |
| 141 | 38.7 | 0.0 | 0.0# |



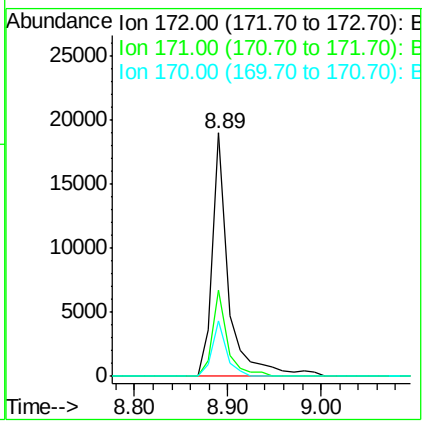


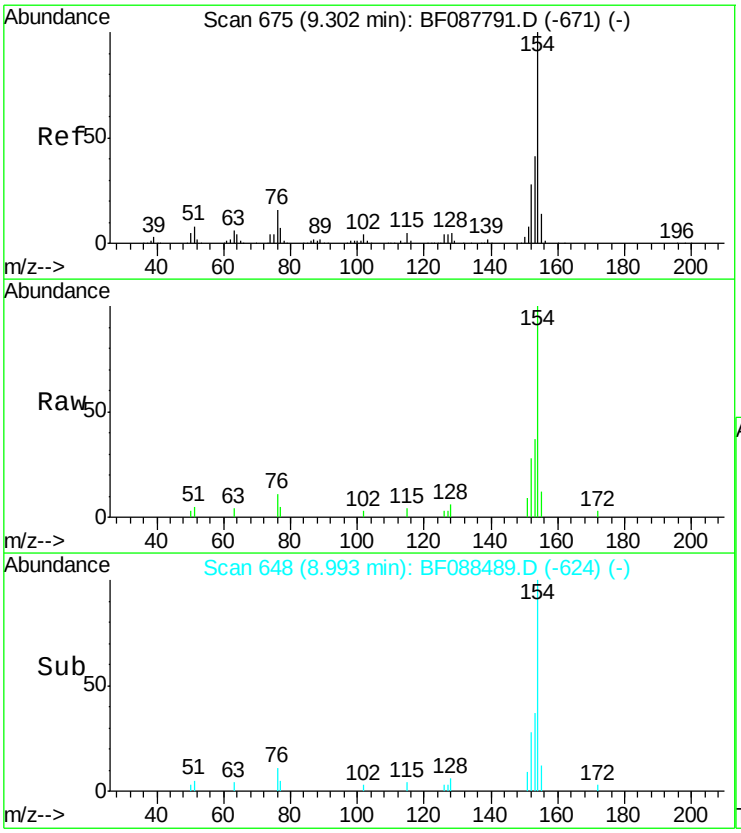

#44
2-Fluorobiphenyl
Concen: -3.97 ng
RT: 8.89 min Scan# 639
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:172 Resp: 23090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.6 | 43.0 |
| 170 | 22.6 | 19.2 | 28.8 |

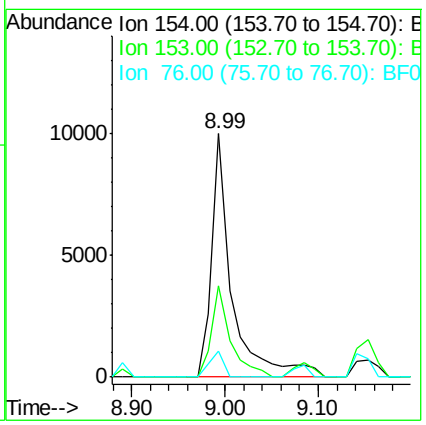


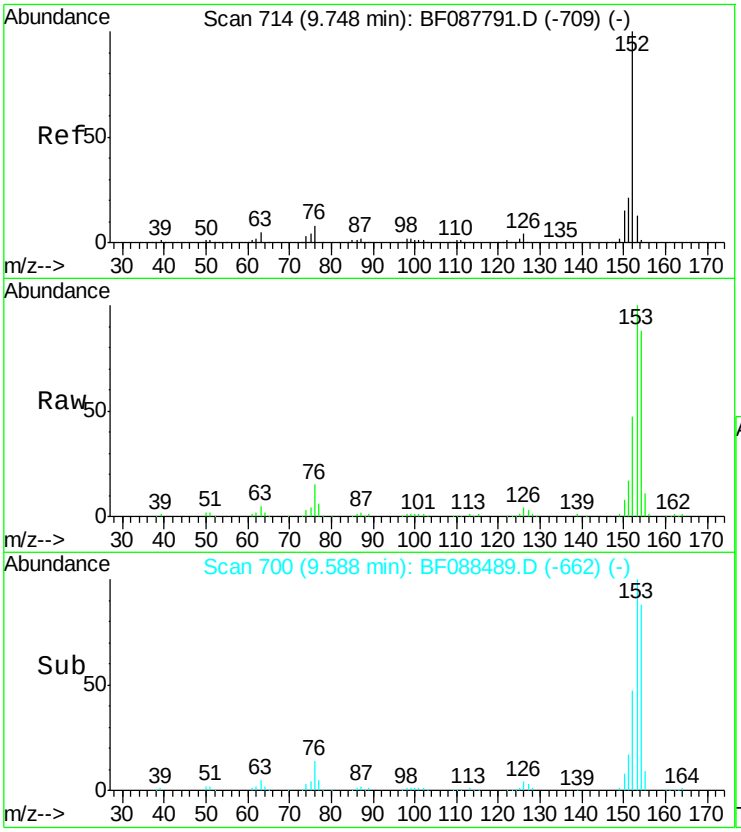




#45
1,1'-Biphenyl
Concen: Below Cal
RT: 8.99 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:154 Resp: 15005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 37.5 | 20.6 | 60.6 |
| 76 | 10.7 | 0.0 | 35.1 |



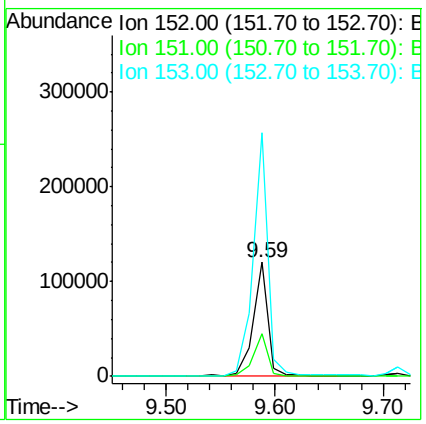


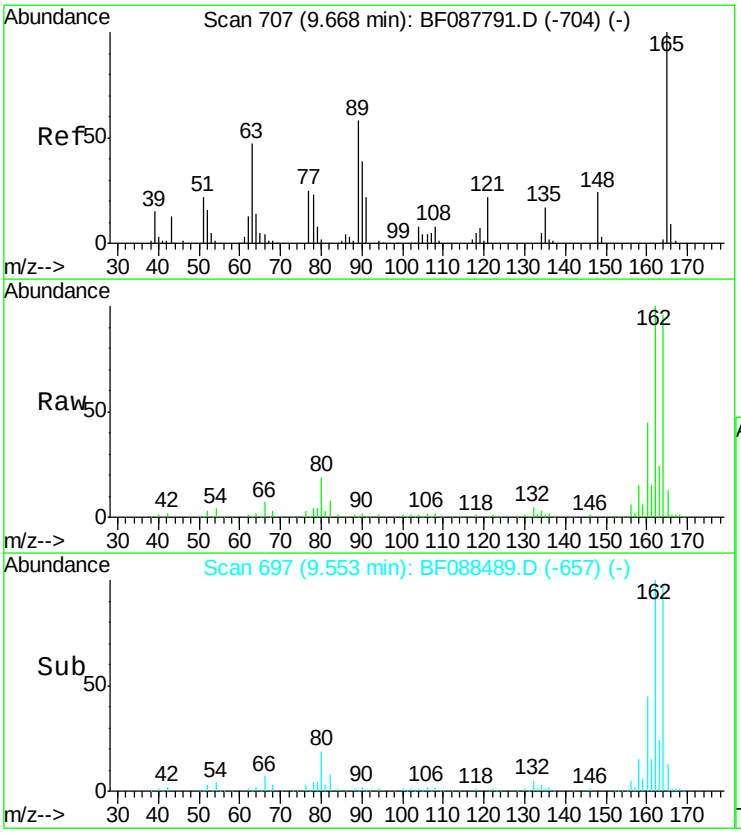

#48
Acenaphthylene
Concen: 5.75 ng
RT: 9.59 min Scan# 700
Delta R.T. 0.14 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:152 Resp: 117239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 36.8 | 16.2 | 24.4# |
| 153 | 213.4 | 11.0 | 16.6# |

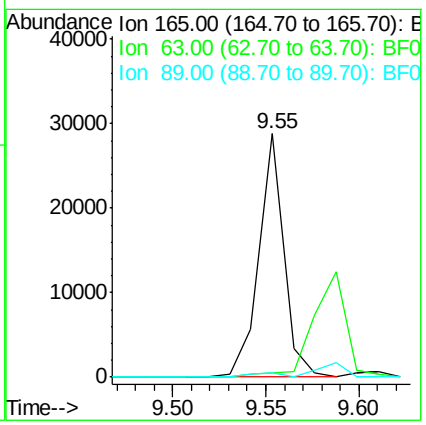


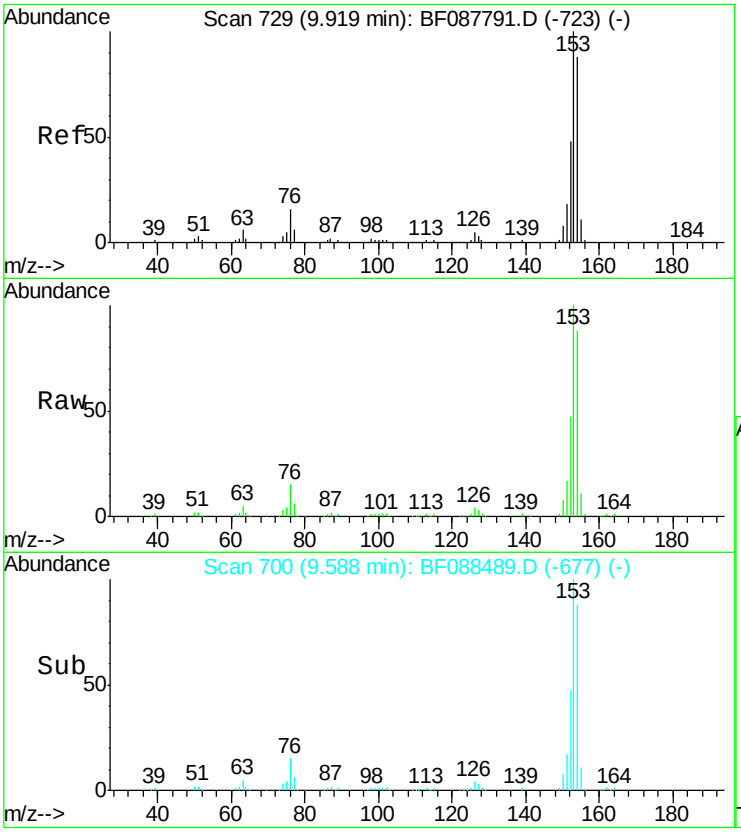




#50
2,6-Dinitrotoluene
Concen: 8.08 ng
RT: 9.55 min Scan# 697
Delta R.T. 0.16 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:165 Resp: 26562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 1.9 | 28.1 | 42.1# |
| 89 | 1.9 | 32.2 | 48.2# |



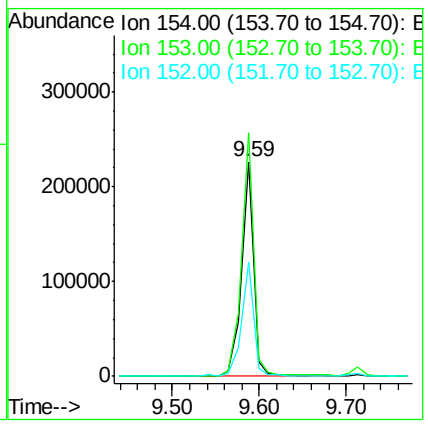


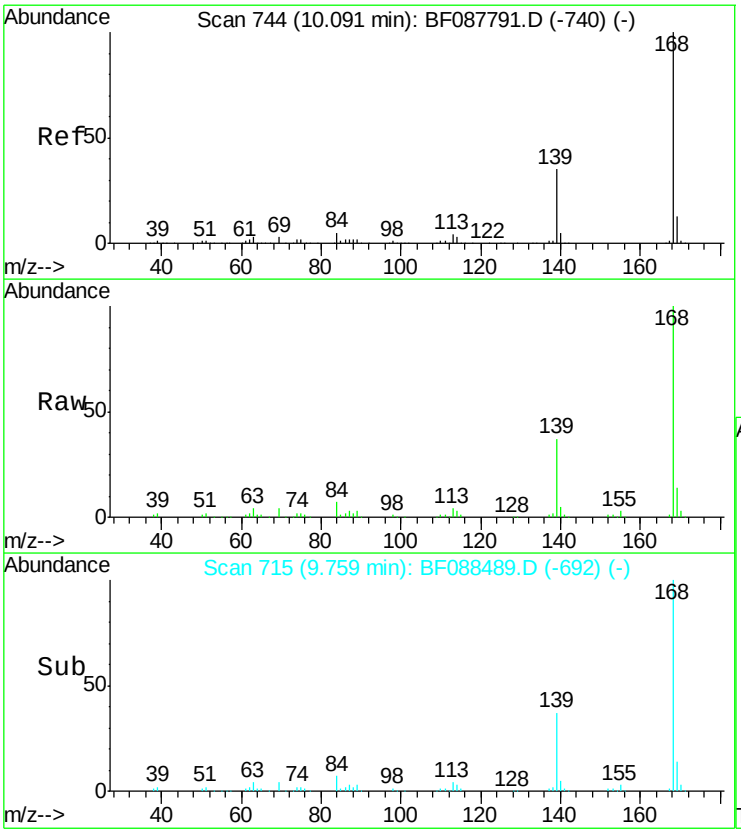

#51
Acenaphthene
Concen: 17.17 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:154 Resp: 218532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.4 | 89.5 | 134.3 |
| 152 | 53.1 | 42.7 | 64.1 |

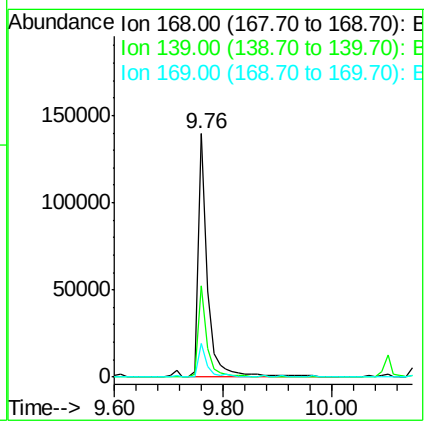


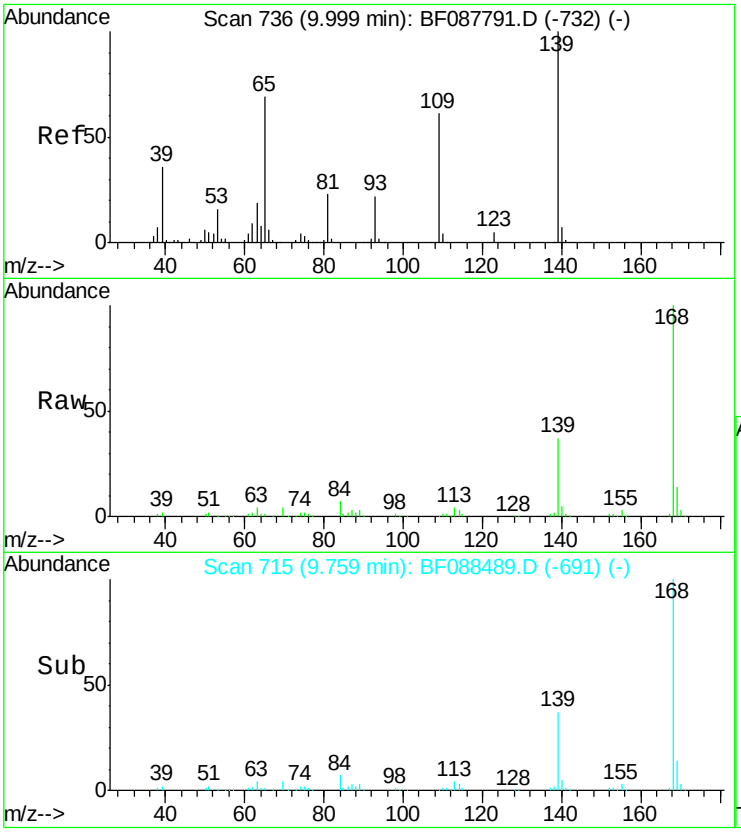




#54
Dibenzofuran
Concen: 9.37 ng
RT: 9.76 min Scan# 715
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:168 Resp: 164231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.5 | 26.4 | 39.6 |
| 169 | 13.6 | 10.4 | 15.6 |



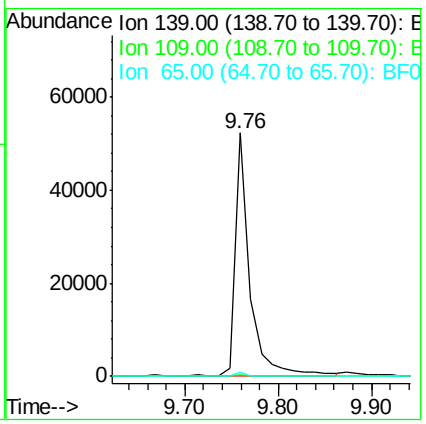


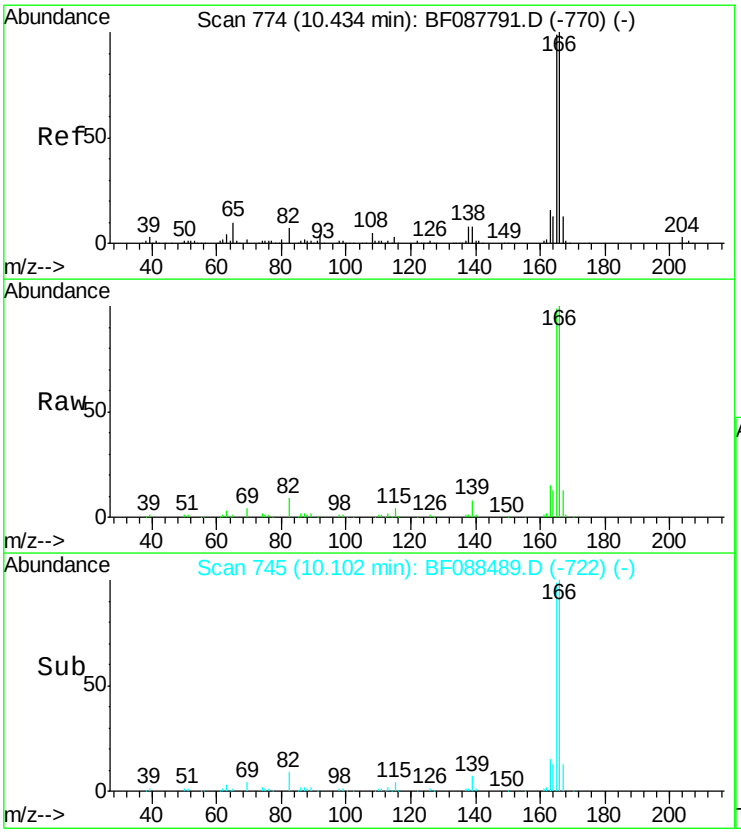

#55
4-Nitrophenol
Concen: 19.60 ng
RT: 9.76 min Scan# 715
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:139 Resp: 57728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 0.9 | 48.9 | 88.9# |
| 65 | 1.6 | 84.9 | 124.9# |

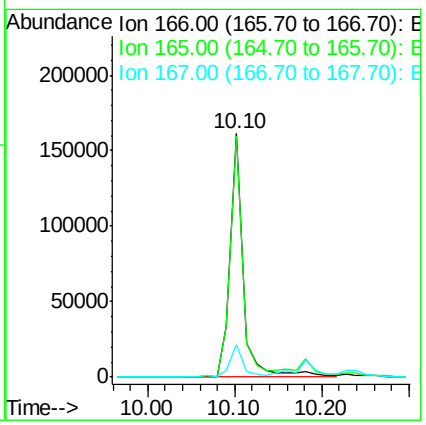


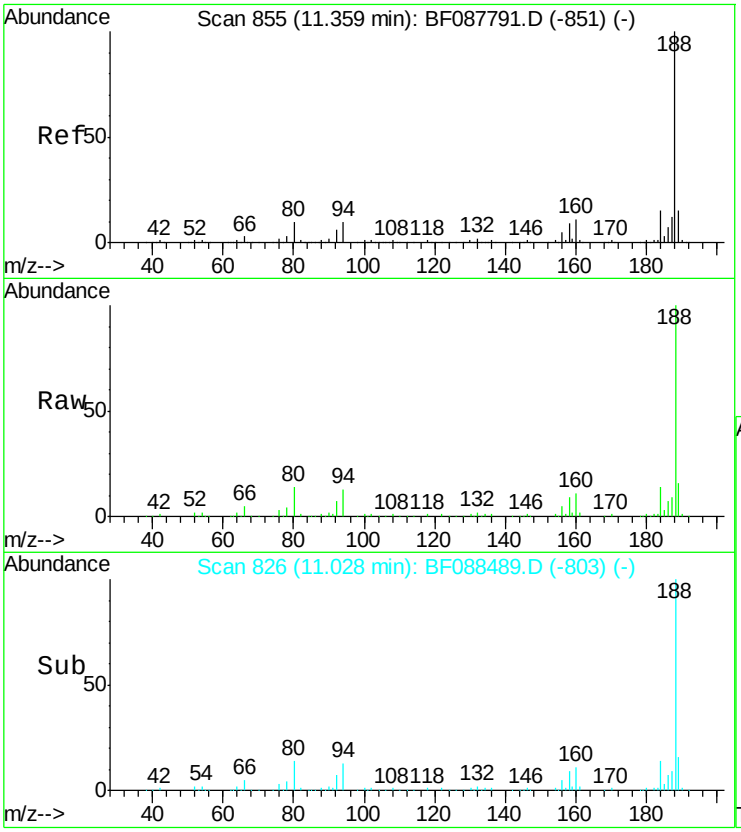




#57
Fluorene
Concen: 10.68 ng
RT: 10.10 min Scan# 745
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:166 Resp: 170141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.1 | 77.8 | 116.8 |
| 167 | 13.2 | 11.2 | 16.8 |



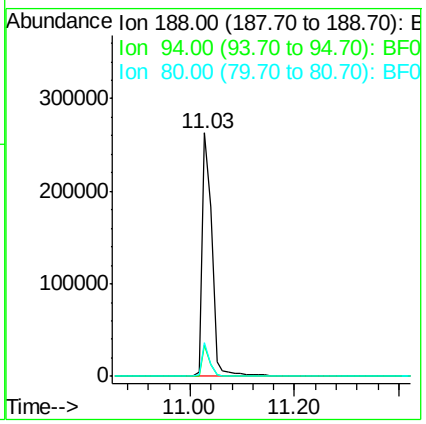


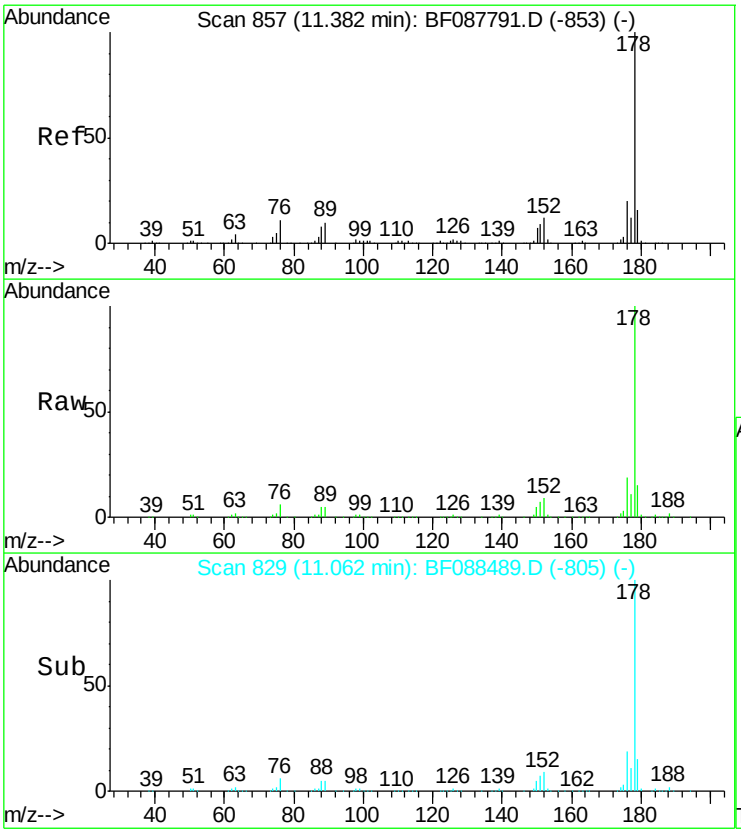

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:188 Resp: 341202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 12.7 | 9.0 | 13.6 |
| 80 | 13.6 | 10.0 | 15.0 |

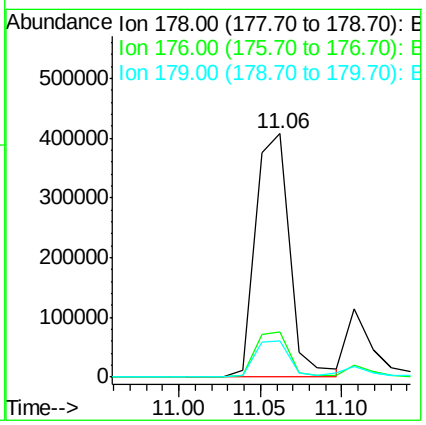


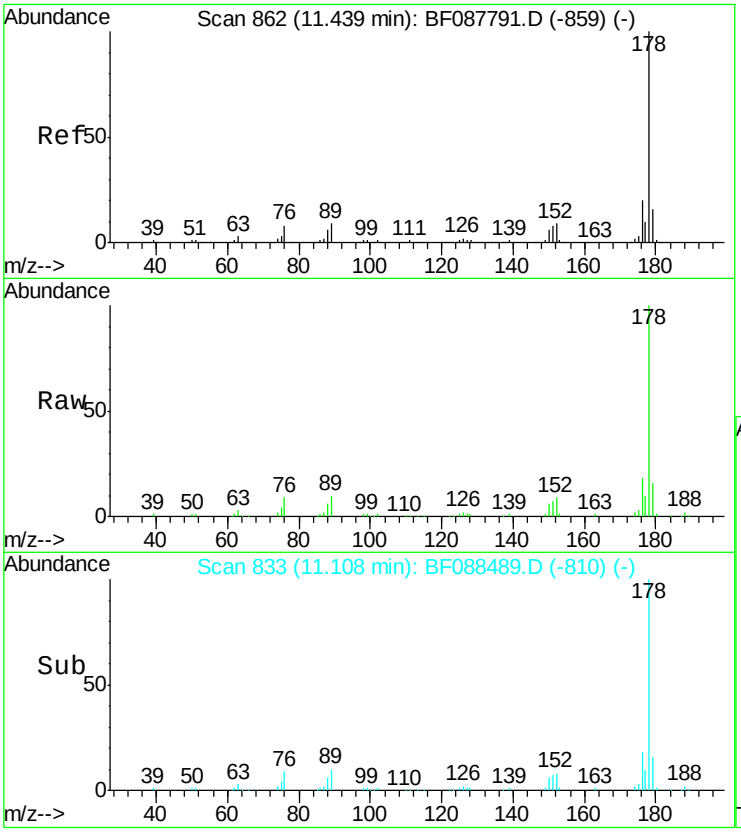




#70
Phenanthrene
Concen: 33.15 ng
RT: 11.06 min Scan# 829
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:178 Resp: 593549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.8 | 23.6 |
| 179 | 14.8 | 13.0 | 19.4 |



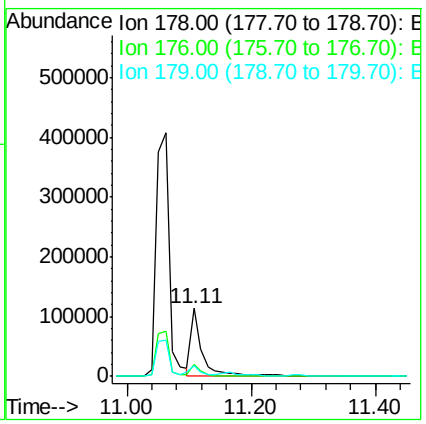


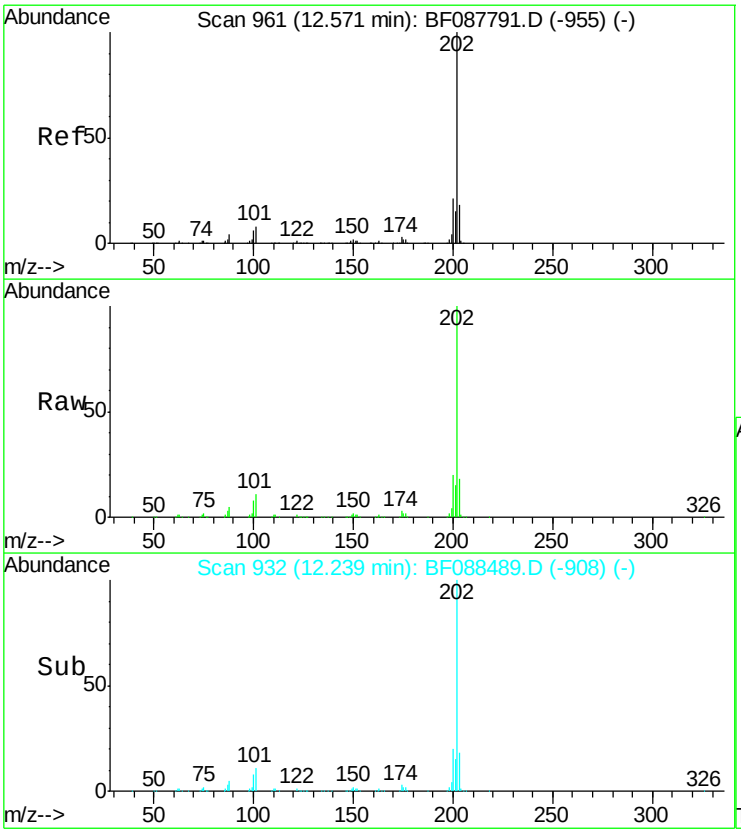

#71
Anthracene
Concen: 8.22 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:178 Resp: 148444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.8 | 15.6 | 23.4 |
| 179 | 16.5 | 12.8 | 19.2 |

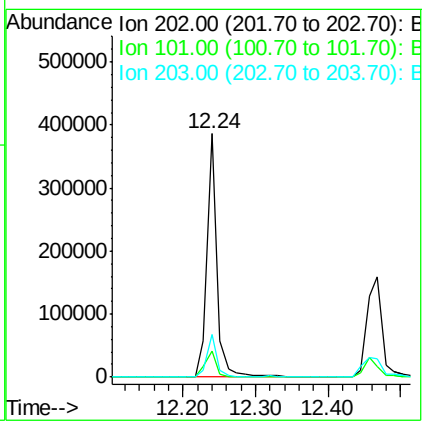


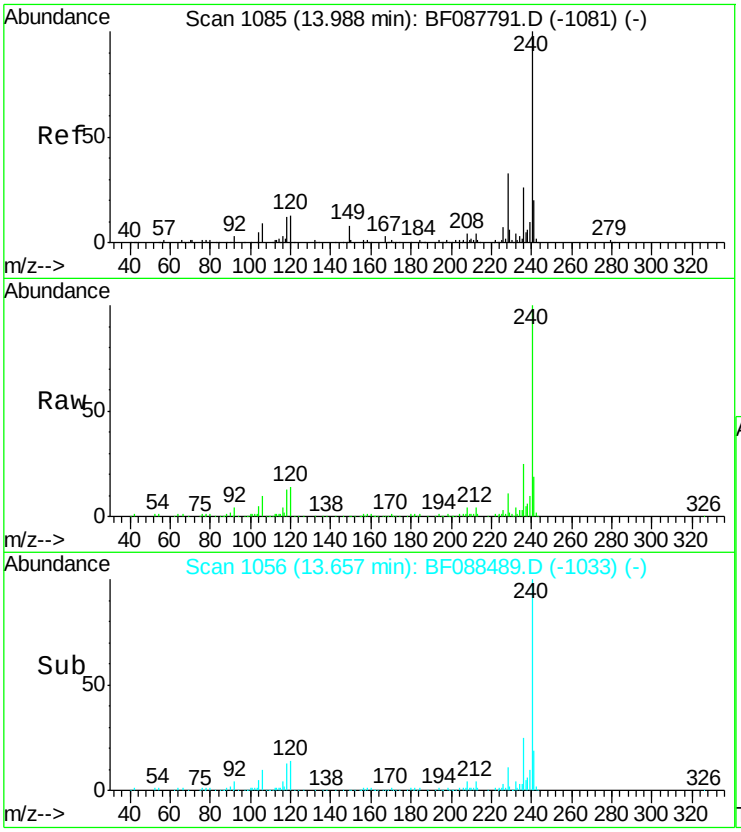




#74
Fluoranthene
Concen: 19.68 ng
RT: 12.24 min Scan# 932
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:202 Resp: 371851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.8 | 0.0 | 33.1 |
| 203 | 17.6 | 0.0 | 38.1 |



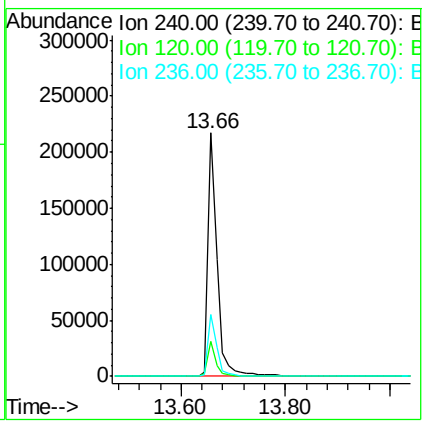


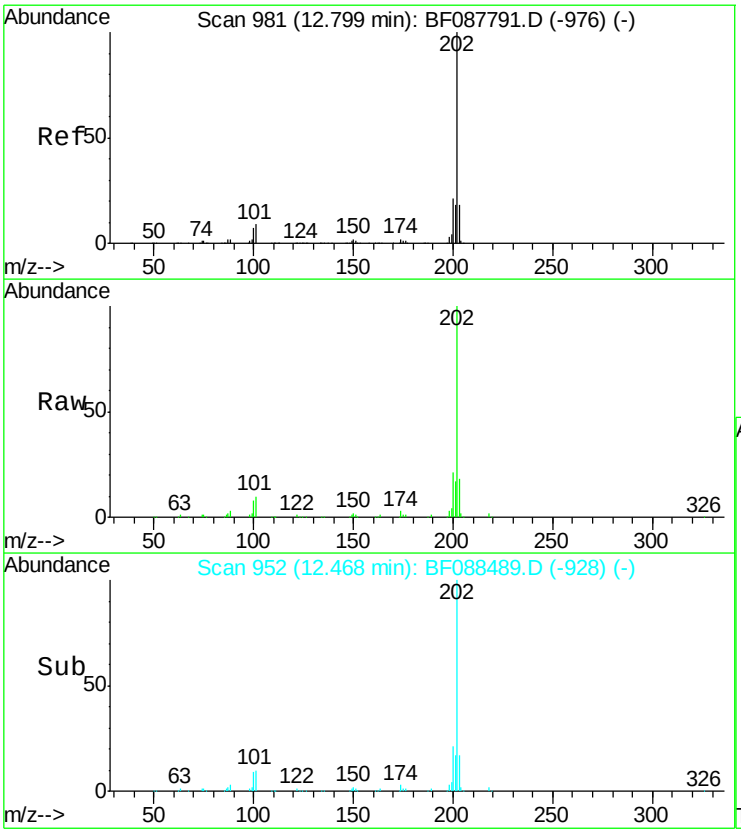

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.66 min Scan# 1056
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:240 Resp: 261187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.4 | 6.8 | 10.2# |
| 236 | 25.3 | 20.2 | 30.2 |

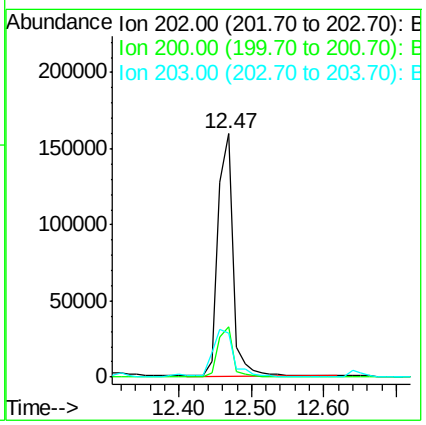


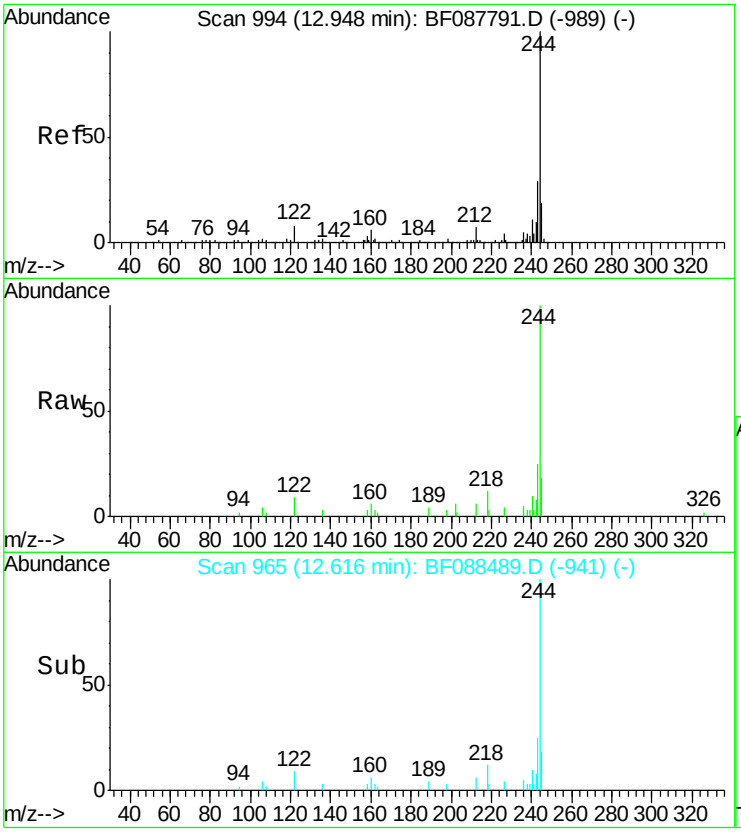




#77
Pyrene
Concen: 11.89 ng
RT: 12.47 min Scan# 952
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:202 Resp: 230502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.7 | 17.4 | 26.2 |
| 203 | 17.9 | 14.5 | 21.7 |



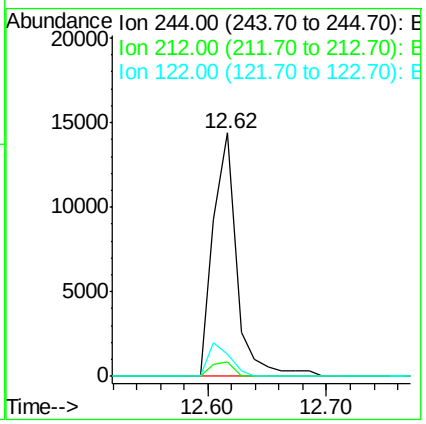


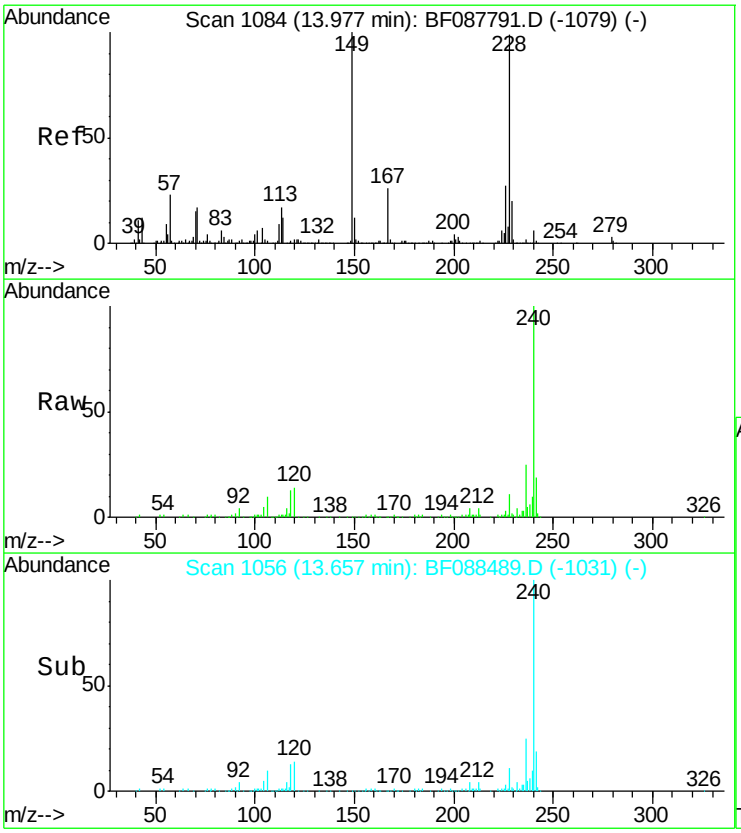

#78
Terphenyl-d14
Concen: 1.72 ng
RT: 12.62 min Scan# 965
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:244 Resp: 19798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 5.9 | 6.0 | 9.0# |
| 122 | 8.9 | 11.2 | 16.8# |

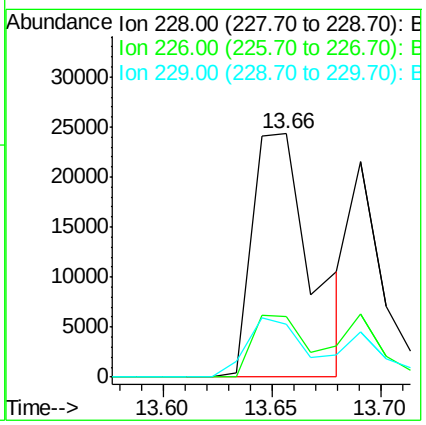


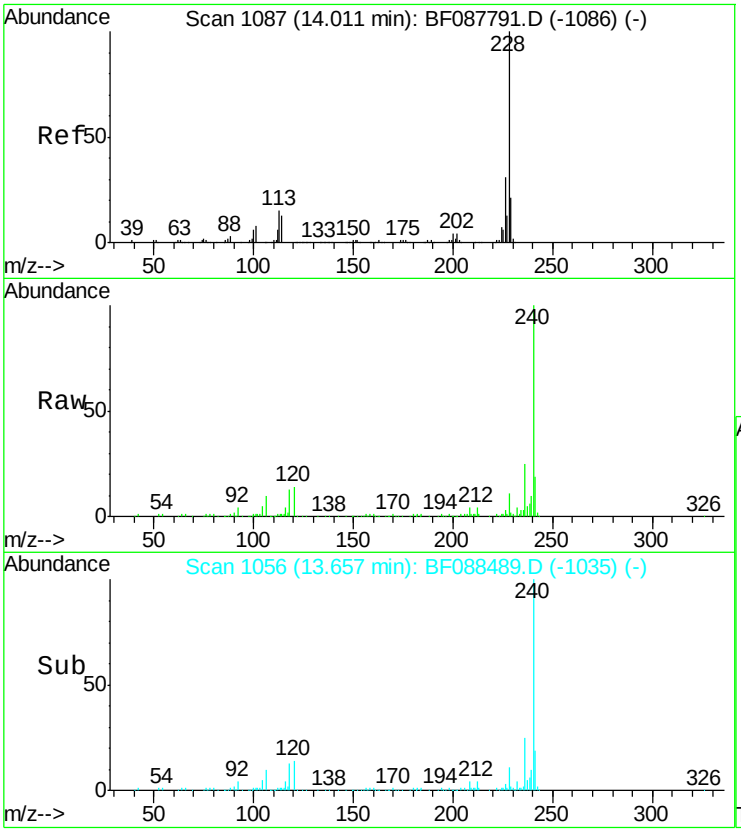




#80
Benzo(a)anthracene
Concen: 3.12 ng
RT: 13.66 min Scan# 1056
Delta R.T. -0.01 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:228 Resp: 46394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.1 | 22.3 | 33.5 |
| 229 | 21.9 | 16.0 | 24.0 |



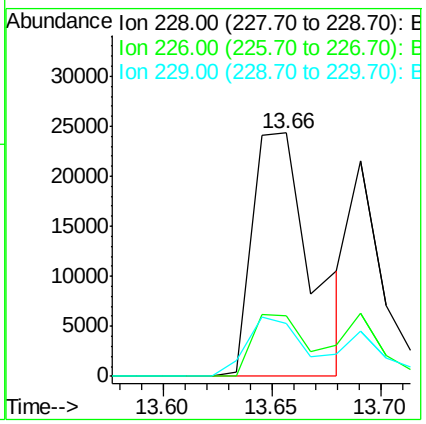


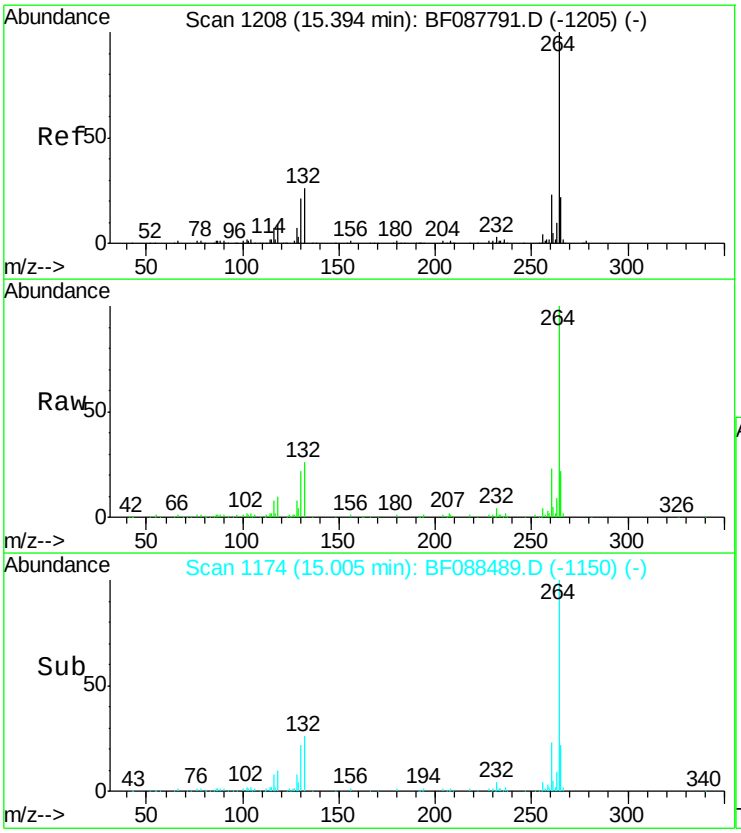

#82
Chrysene
Concen: 3.31 ng
RT: 13.66 min Scan# 1056
Delta R.T. -0.06 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:228 Resp: 46394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.1 | 25.4 | 38.2# |
| 229 | 21.9 | 16.3 | 24.5 |

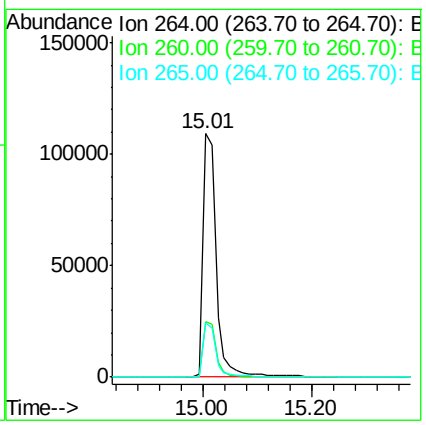


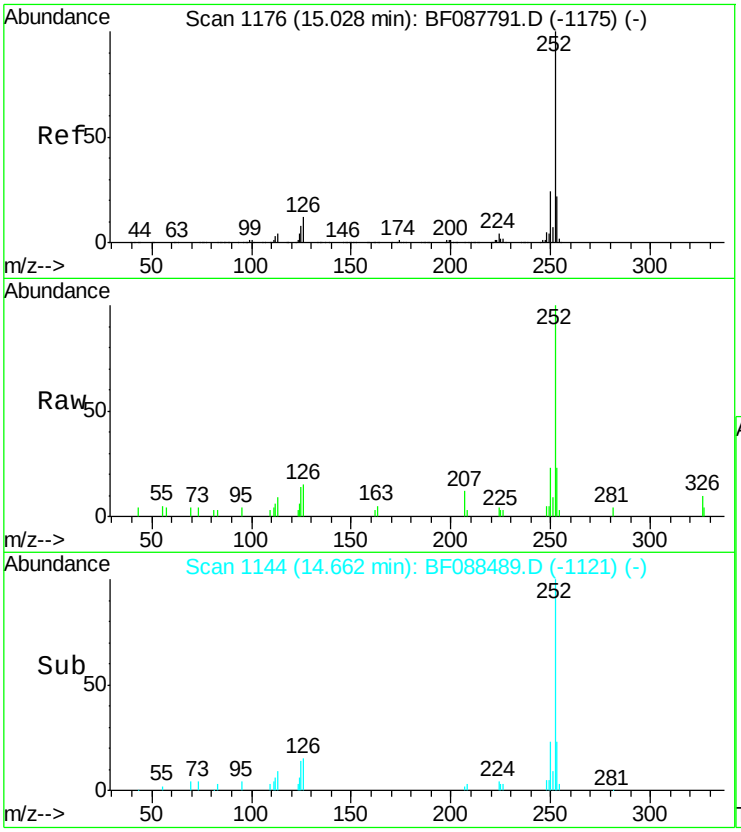




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.01 min Scan# 1174
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:264 Resp: 185162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.8 | 19.2 | 28.8 |
| 265 | 22.2 | 16.9 | 25.3 |






#88
Benzo(k)fluoranthene
Concen: 2.11 ng
RT: 14.66 min Scan# 1144
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

**Instrument :**
BNA_F
**ClientSampleId :**
Q8-B4(0-2)CDL2

Tgt Ion:252 Resp: 20542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 18.0 | 27.0 |
| 125 | 13.8 | 11.2 | 16.8 |