Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
Data File : BF089009.D
Acq On : 15 Jul 2016 2:51
Operator : UM/SJ
Sample : H3972-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LSS-SS-SS03(0-2in)

Quant Time: Jul 15 03:49:39 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 11 18:13:32 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.68 | 152 | 46635 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 7.98 | 136 | 187940 | 20.00 | ng | | -0.02 |
| 38) Acenaphthene-d10 | 9.72 | 164 | 69732 | 20.00 | ng | | -0.02 |
| 63) Phenanthrene-d10 | 11.20 | 188 | 130070 | 20.00 | ng | | -0.02 |
| 75) Chrysene-d12 | 13.83 | 240 | 92690 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 15.20 | 264 | 64314 | 20.00 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.29 | 112 | 342947 | 110.21 | ng | | 0.00 |
| 7) Phenol-d6 | 6.34 | 99 | 377500 | 93.89 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.26 | 82 | 258680 | 72.13 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.51 | 330 | 61379 | 94.79 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 9.05 | 172 | 375371 | 85.03 | ng | | -0.02 |
| 78) Terphenyl-d14 | 12.78 | 244 | 298610 | 71.76 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propylamine | 7.26 | 70 | 35942 | 13.31 | ng | # | 73 |
| 25) Isophorone | 7.26 | 82 | 196008 | 29.51 | ng | # | 65 |
| 49) Dimethylphthalate | 9.45 | 163 | 143236 | 28.83 | ng | | 99 |
| 56) 2,4-Dinitrotoluene | 9.72 | 165 | 9107 | 6.33 | ng | # | 36 |
| 66) 4-Bromophenyl-phenylether | 10.50 | 248 | 4484 | 3.42 | ng | # | 1 |
| 70) Phenanthrene | 11.22 | 178 | 68563 | 9.64 | ng | | 98 |
| 71) Anthracene | 11.27 | 178 | 19466 | 2.75 | ng | | 100 |
| 73) Di-n-butylphthalate | 11.77 | 149 | 28240 | 3.65 | ng | | 99 |
| 74) Fluoranthene | 12.40 | 202 | 96581 | 13.40 | ng | | 99 |
| 77) Pyrene | 12.63 | 202 | 85046 | 10.82 | ng | | 98 |
| 79) Butylbenzylphthalate | 13.26 | 149 | 31897 | 9.10 | ng | # | 69 |
| 80) Benzo(a)anthracene | 13.82 | 228 | 38679 | 6.48 | ng | # | 90 |
| 82) Chrysene | 13.82 | 228 | 38679 | 6.55 | ng | | 95 |
| 83) Bis(2-ethylhexyl)phthalate | 13.83 | 149 | 57105 | 14.27 | ng | # | 97 |
| 85) Indeno(1,2,3-cd)pyrene | 16.48 | 276 | 16764 | 3.69 | ng | # | 100 |
| 87) Benzo(b)fluoranthene | 14.82 | 252 | 49515 | 12.27 | ng | # | 85 |
| 88) Benzo(k)fluoranthene | 14.82 | 252 | 49515 | 14.10 | ng | # | 89 |
| 89) Benzo(a)pyrene | 15.14 | 252 | 22303 | 6.53 | ng | # | 86 |
| 90) Dibenzo(a,h)anthracene | 16.49 | 278 | 6622 | 2.32 | ng | # | 49 |
| 91) Benzo(g,h,i)perylene | 16.87 | 276 | 16541 | 5.60 | ng | | 95 |

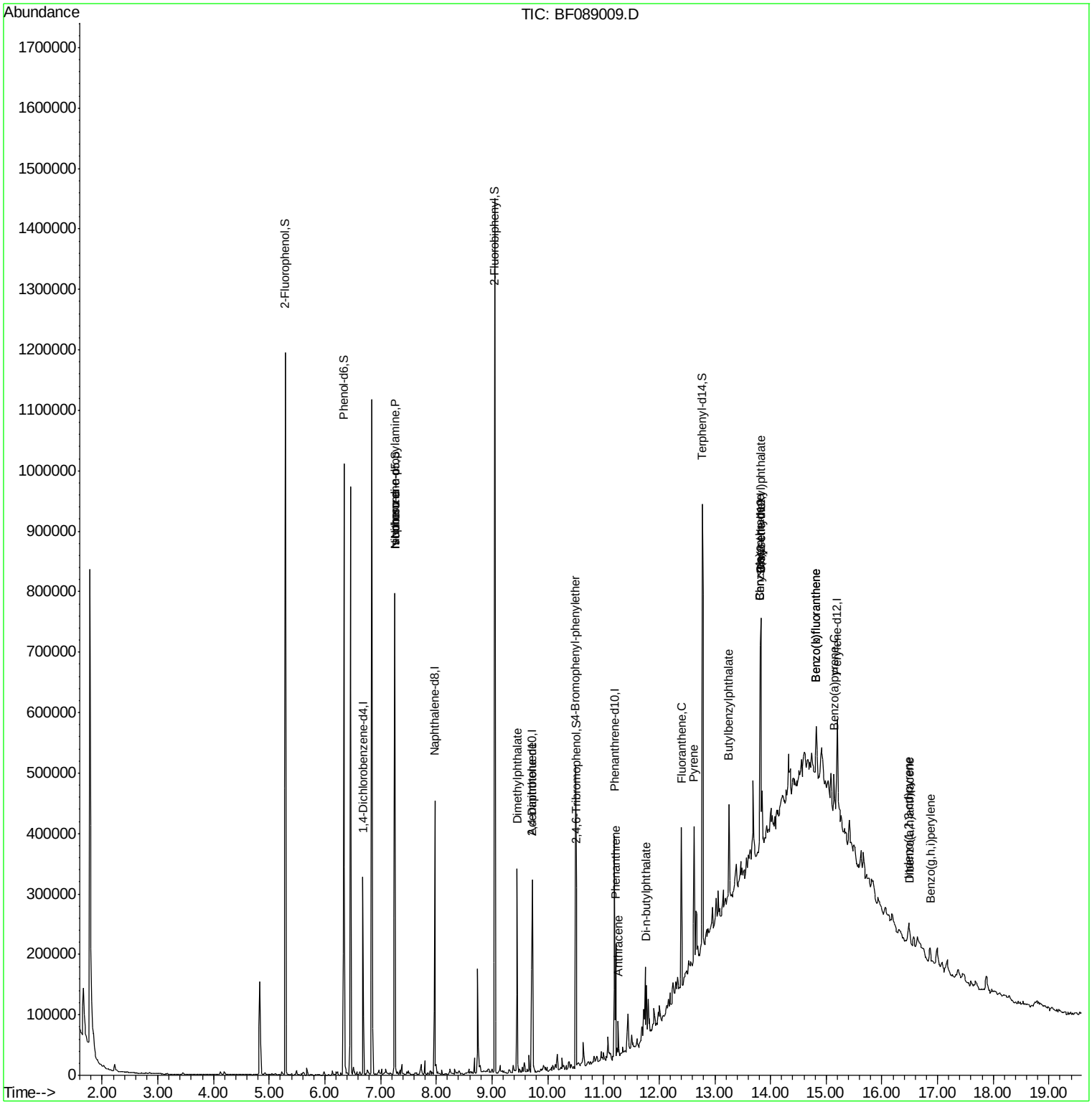
(#) = qualifier out of range (m) = manual integration (+) = signals summed

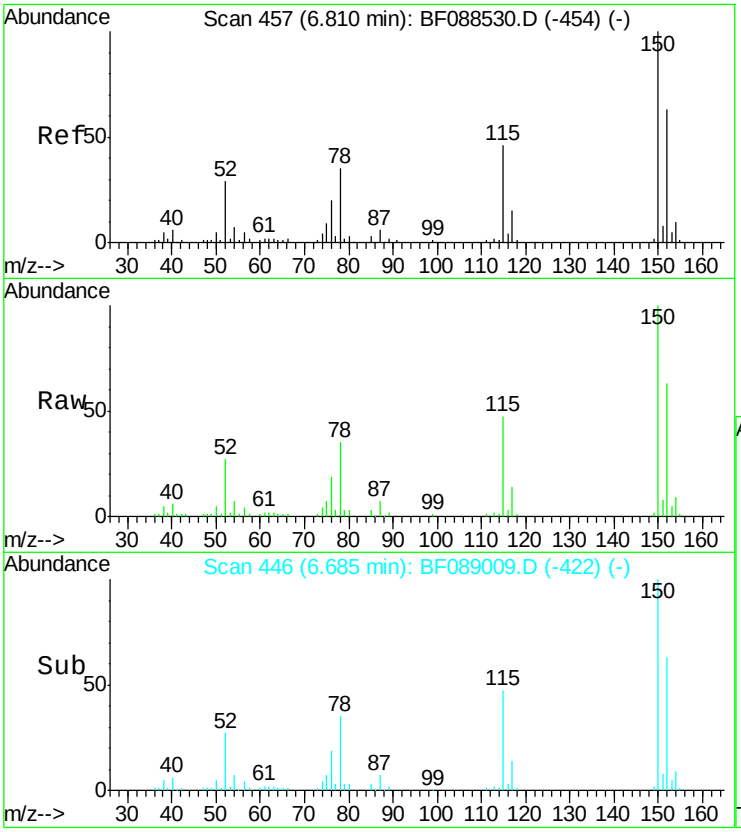
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
Data File : BF089009.D
Acq On : 15 Jul 2016 2:51
Operator : UM/SJ
Sample : H3972-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Quant Time: Jul 15 03:49:39 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 11 18:13:32 2016
Response via : Initial Calibration



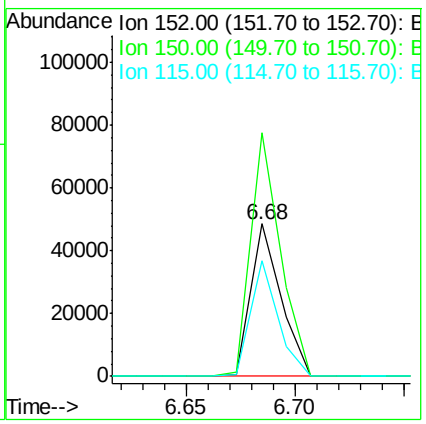


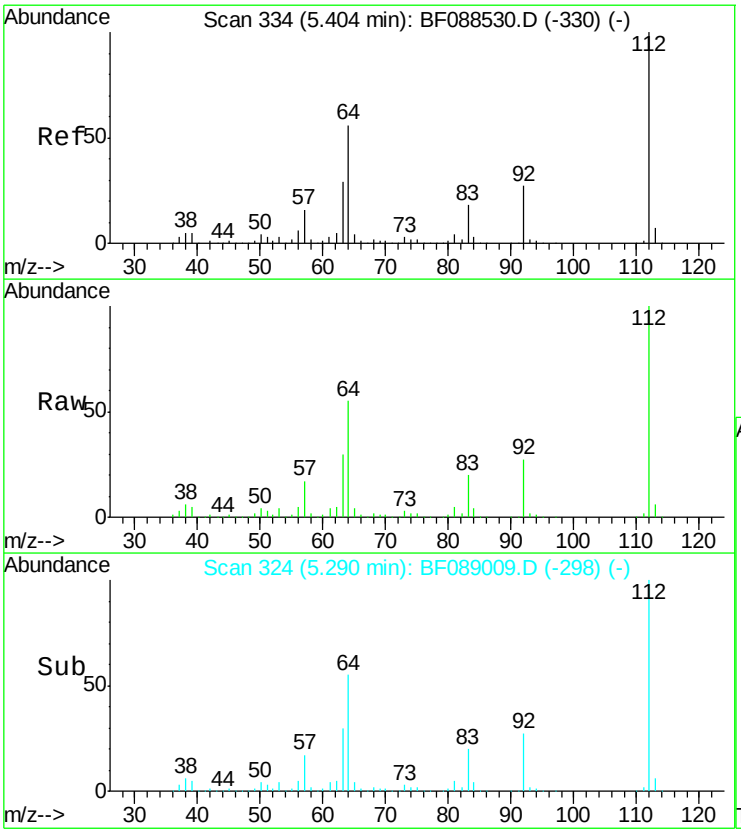

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.68 min Scan# 446
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:152 Resp: 46635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.9 | 123.8 | 185.6 |
| 115 | 75.8 | 39.6 | 59.4# |

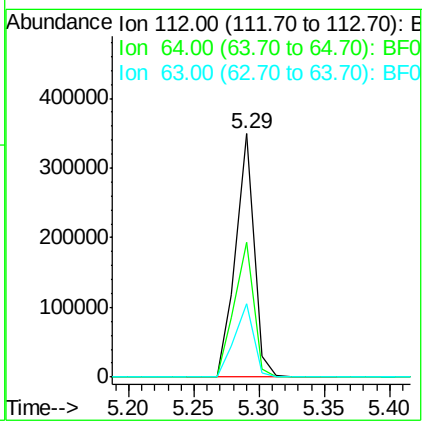


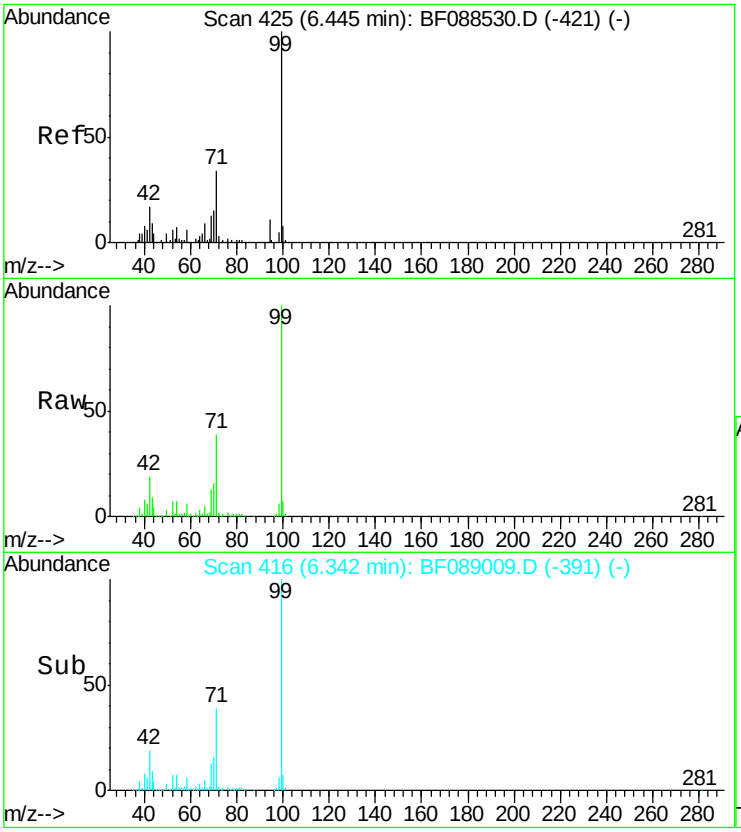




#5
2-Fluorophenol
Concen: 110.21 ng
RT: 5.29 min Scan# 324
Delta R.T. 0.00 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:112 Resp: 342947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.4 | 42.2 | 63.2 |
| 63 | 30.1 | 21.8 | 32.8 |



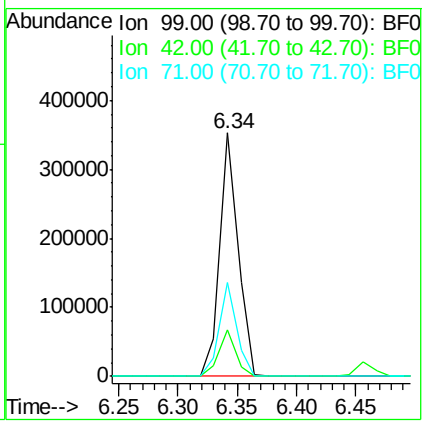


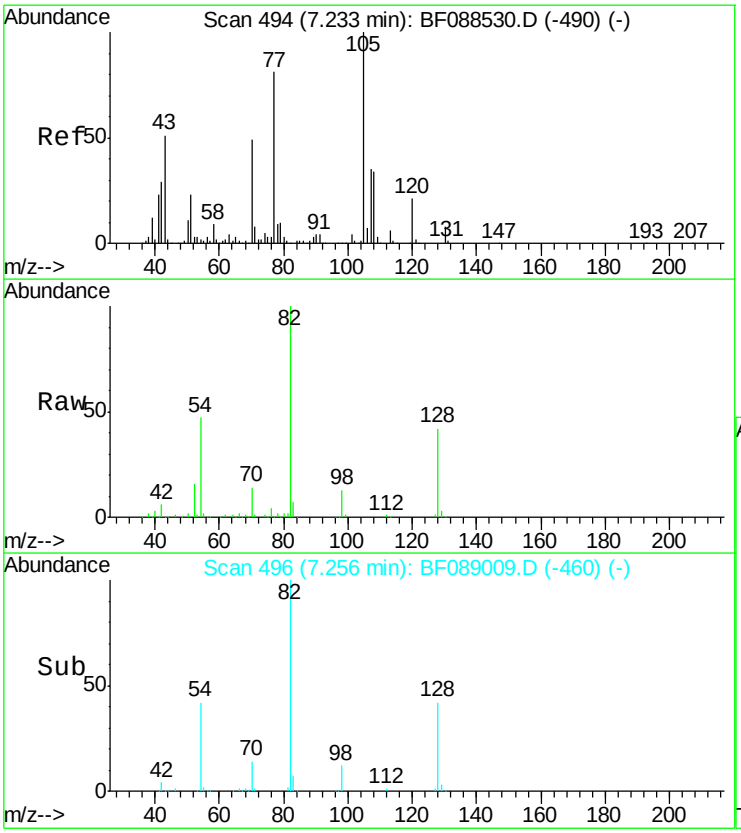

#7
Phenol-d6
Concen: 93.89 ng
RT: 6.34 min Scan# 416
Delta R.T. -0.01 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion: 99 Resp: 377500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.0 | 12.2 | 18.2# |
| 71 | 38.8 | 23.4 | 35.0# |

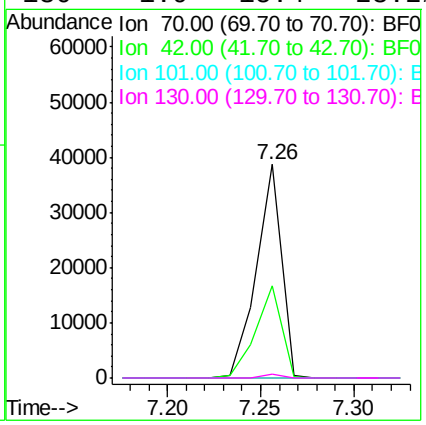


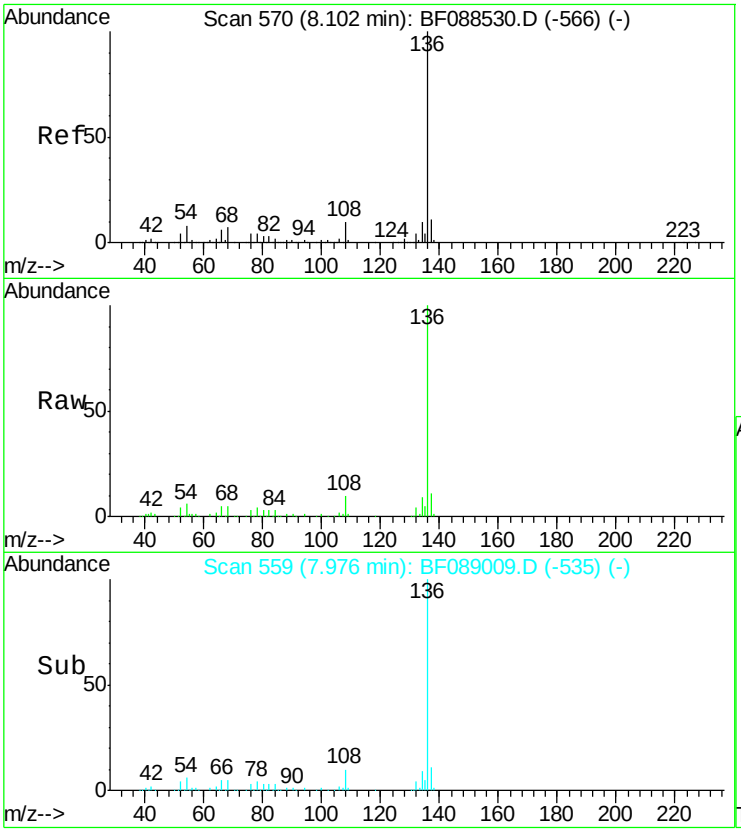




#19
n-Nitroso-di-n-propylamine
Concen: 13.31 ng
RT: 7.26 min Scan# 496
Delta R.T. 0.11 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion: 70 Resp: 35942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 43.2 | 49.6 | 74.4# |
| 101 | 0.0 | 7.1 | 10.7# |
| 130 | 1.9 | 15.4 | 23.2# |



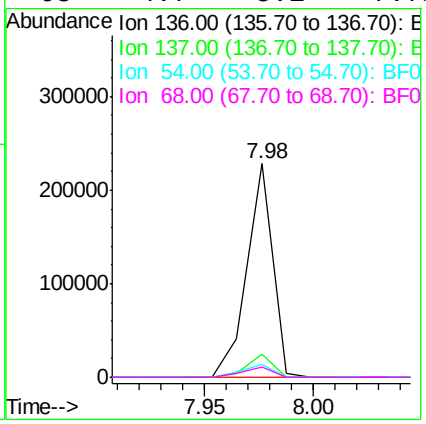


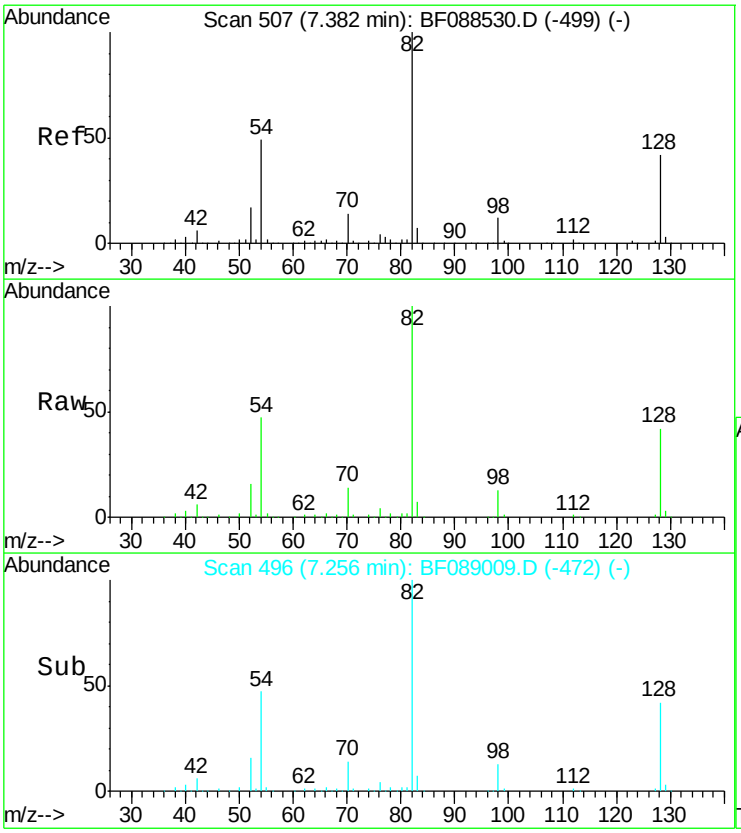

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.98 min Scan# 559
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:136 Resp: 187940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 9.1 | 13.7 |
| 54 | 6.1 | 6.6 | 10.0# |
| 68 | 4.7 | 5.1 | 7.7# |

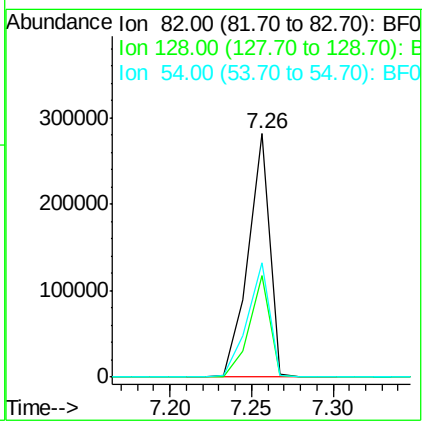


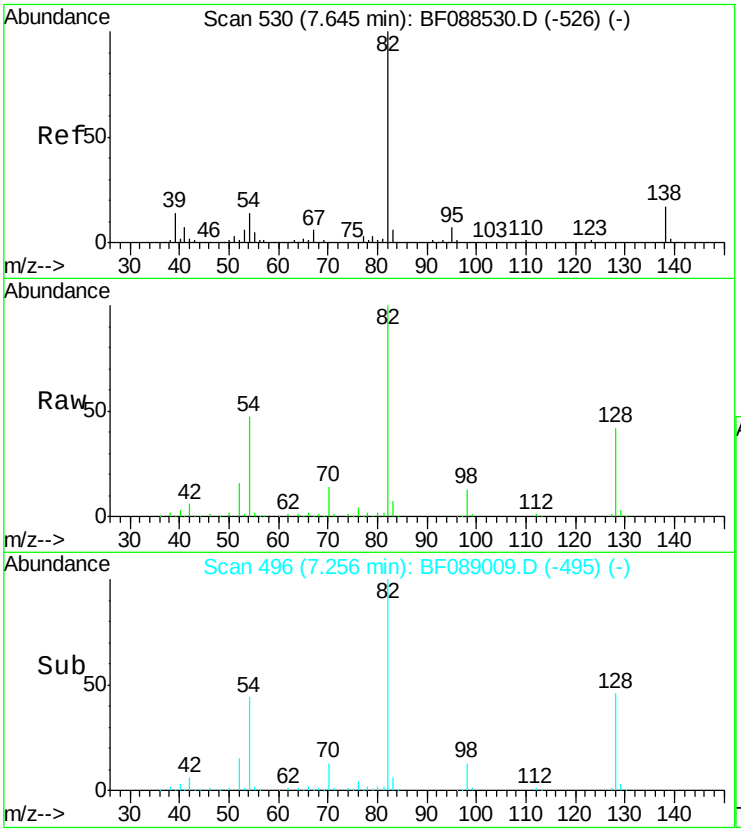




#23
Nitrobenzene-d5
Concen: 72.13 ng
RT: 7.26 min Scan# 496
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion: 82 Resp: 258680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.8 | 35.9 | 53.9 |
| 54 | 46.8 | 40.9 | 61.3 |



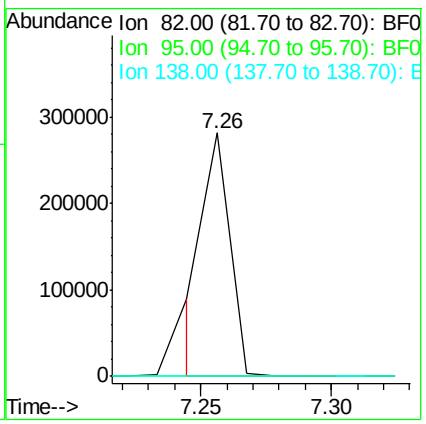


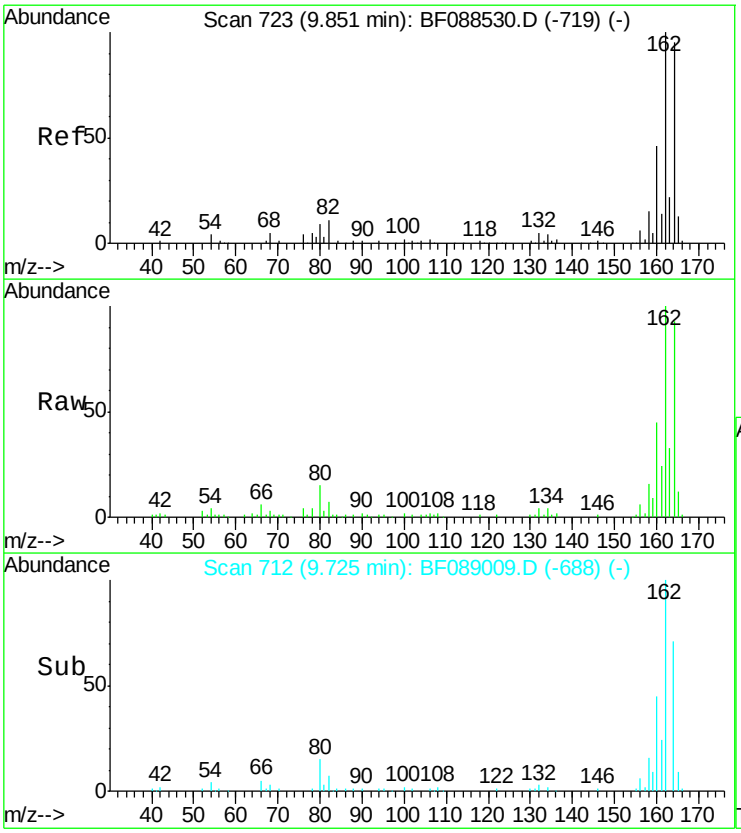

#25
Isophorone
Concen: 29.51 ng
RT: 7.26 min Scan# 496
Delta R.T. -0.29 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion: 82 Resp: 196008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 0.0 | 5.4 | 8.2# |
| 138 | 0.0 | 14.6 | 21.8# |

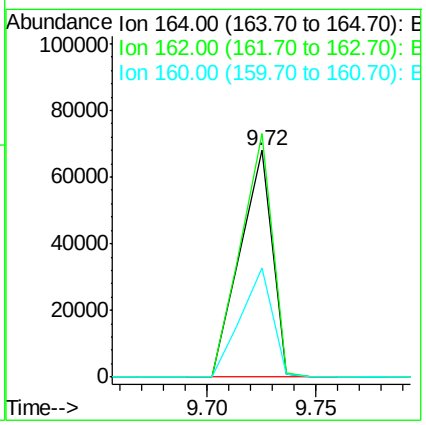


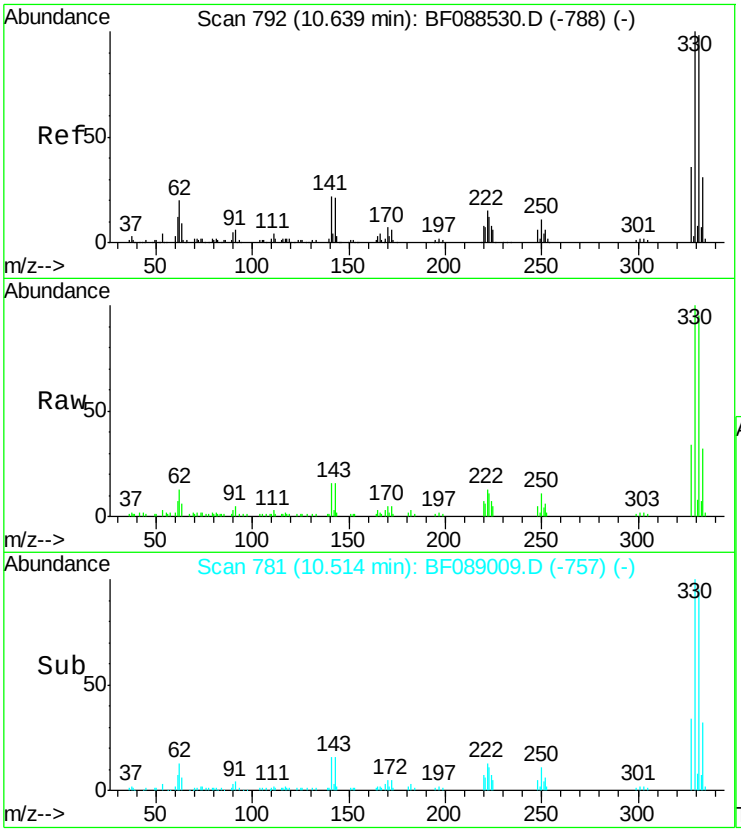




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 712
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:164 Resp: 69732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.3 | 85.4 | 128.2 |
| 160 | 47.9 | 39.5 | 59.3 |



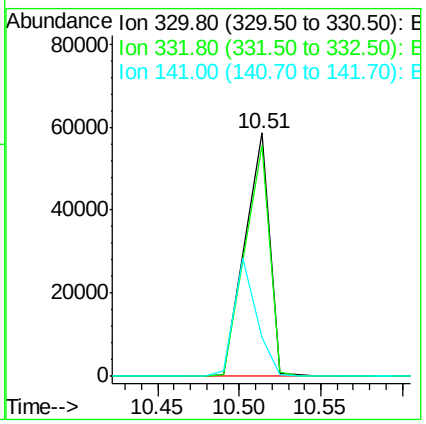


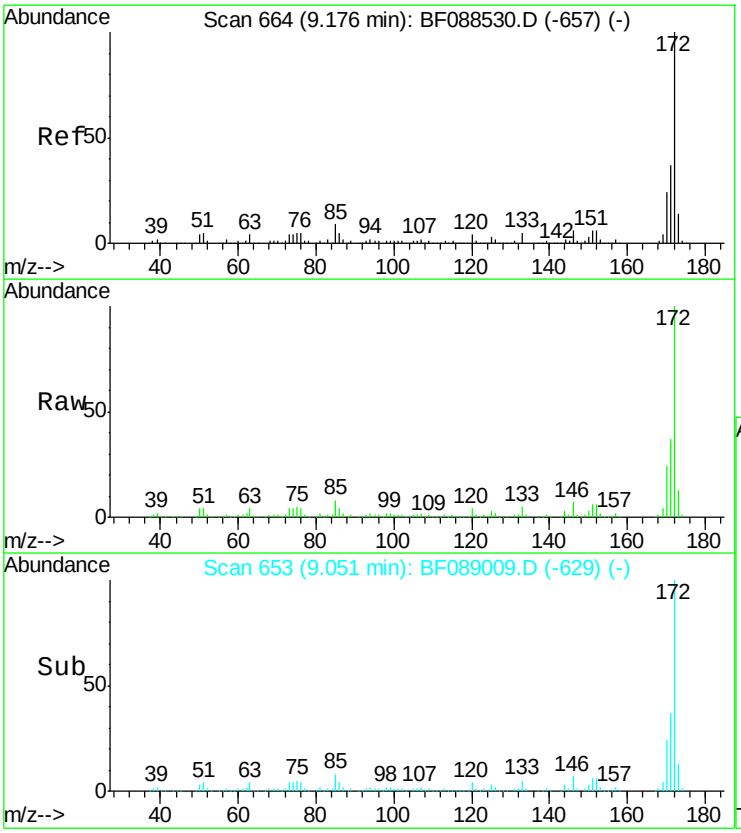

#41
2,4,6-Tribromophenol
Concen: 94.79 ng
RT: 10.51 min Scan# 781
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:330 Resp: 61379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.5 | 0.0 | 0.0# |
| 141 | 44.2 | 0.0 | 0.0# |

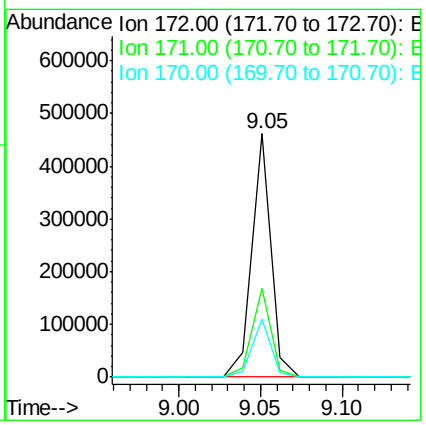


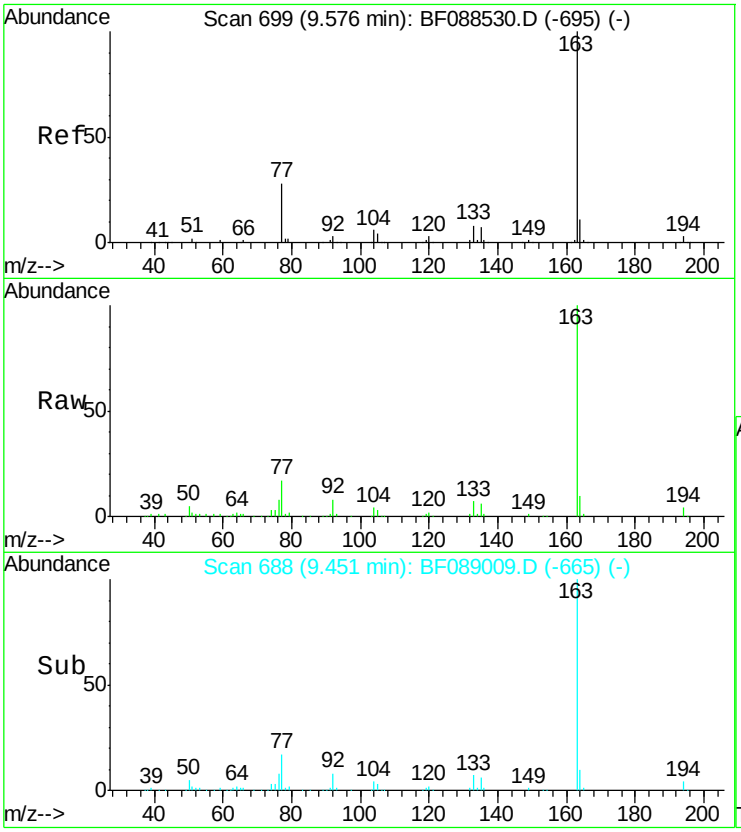




#44
2-Fluorobiphenyl
Concen: 85.03 ng
RT: 9.05 min Scan# 653
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:172 Resp: 375371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 28.6 | 43.0 |
| 170 | 23.9 | 19.2 | 28.8 |



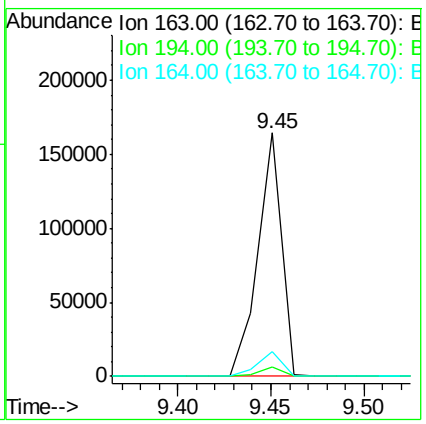


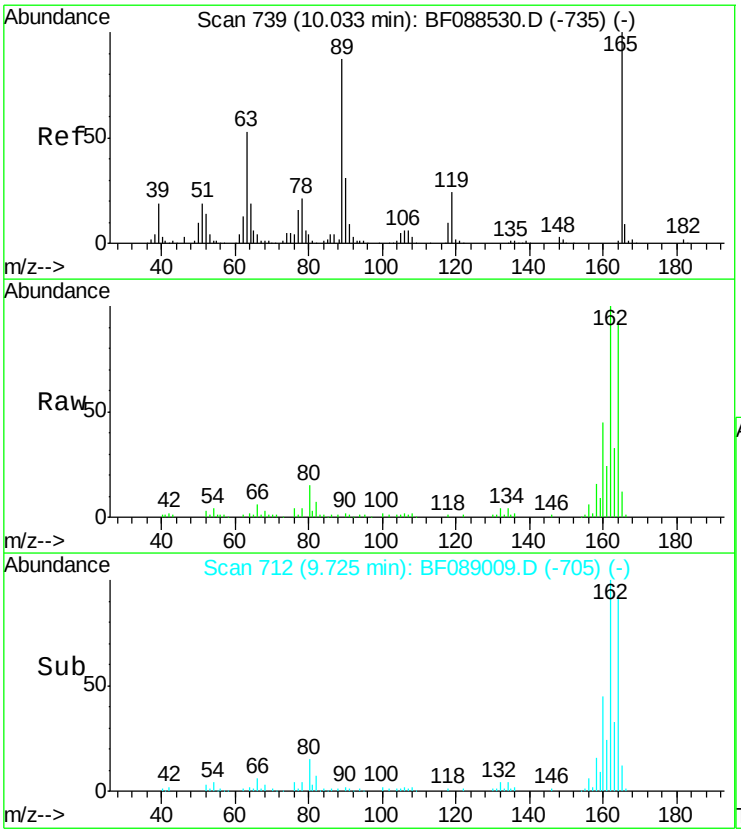

#49
Dimethylphthalate
Concen: 28.83 ng
RT: 9.45 min Scan# 688
Delta R.T. -0.03 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:163 Resp: 143236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 2.8 | 4.2 |
| 164 | 9.9 | 8.3 | 12.5 |

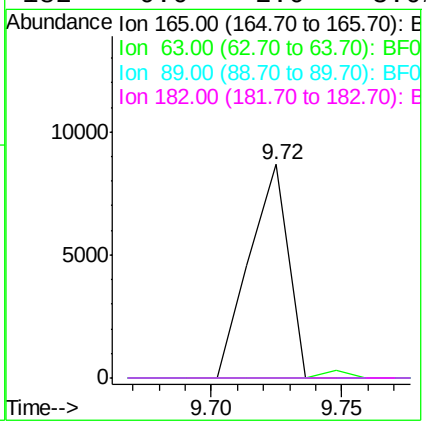


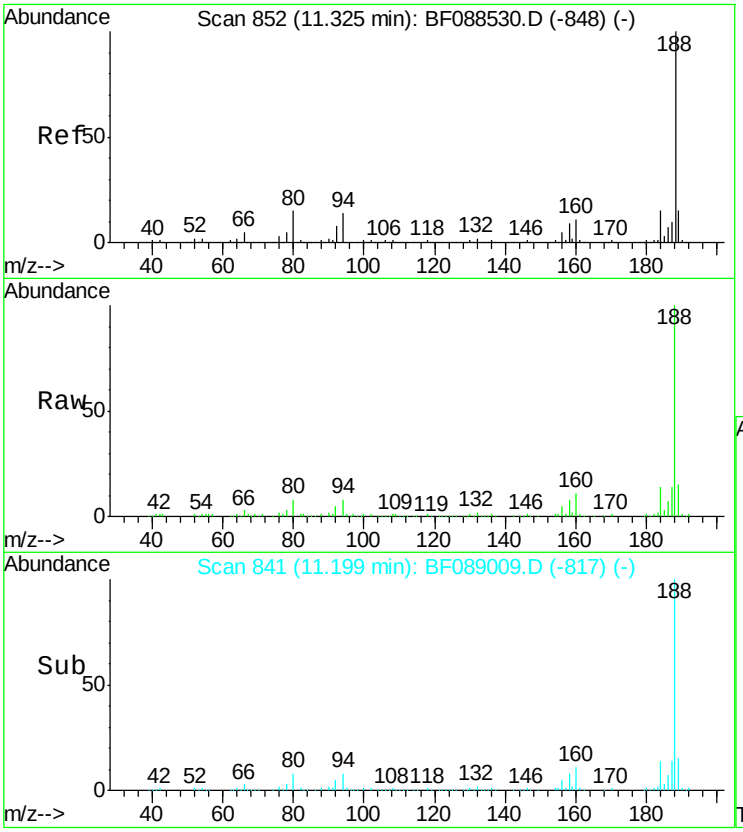




#56
2,4-Dinitrotoluene
Concen: 6.33 ng
RT: 9.72 min Scan# 712
Delta R.T. -0.22 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:165 Resp: 9107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 0.0 | 22.0 | 33.0# |
| 89 | 0.0 | 41.1 | 61.7# |
| 182 | 0.0 | 2.0 | 3.0# |



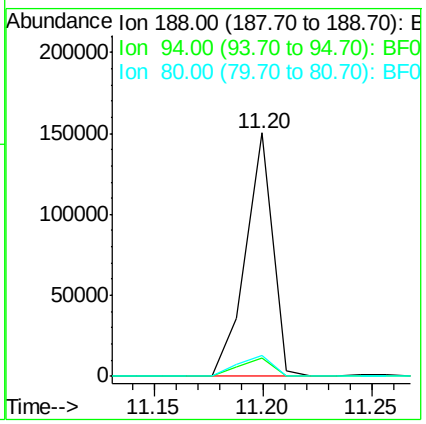


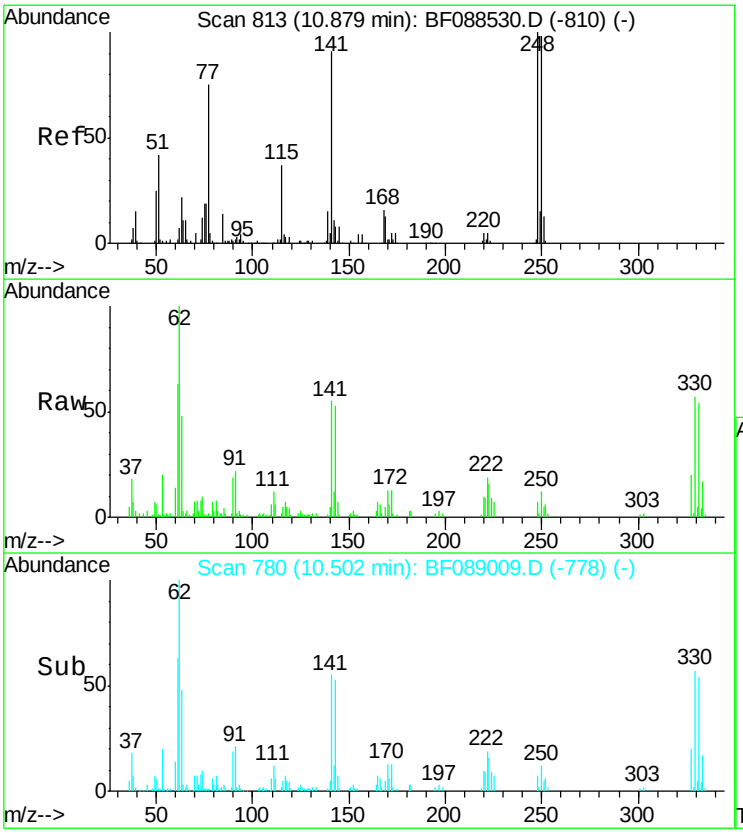

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 841
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:188 Resp: 130070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.7 | 9.0 | 13.6# |
| 80 | 8.5 | 10.0 | 15.0# |

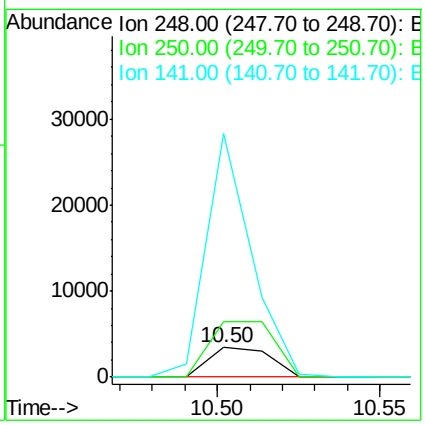


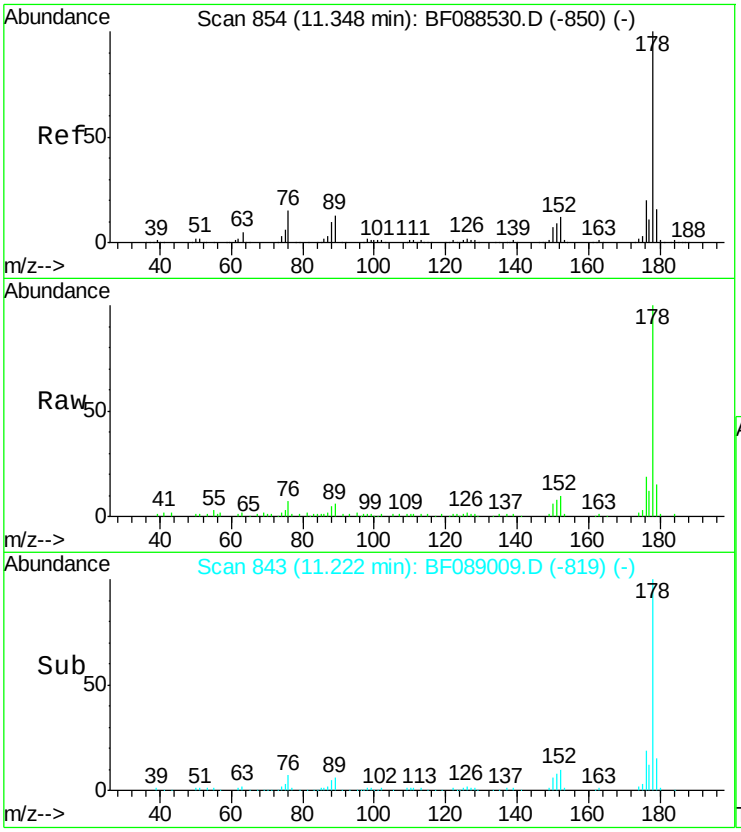




#66
4-Bromophenyl-phenylether
Concen: 3.42 ng
RT: 10.50 min Scan# 780
Delta R.T. -0.27 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:248 Resp: 4484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 184.6 | 77.1 | 115.7# |
| 141 | 819.9 | 50.6 | 76.0# |



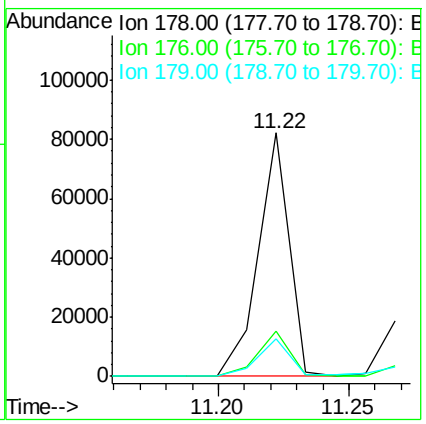


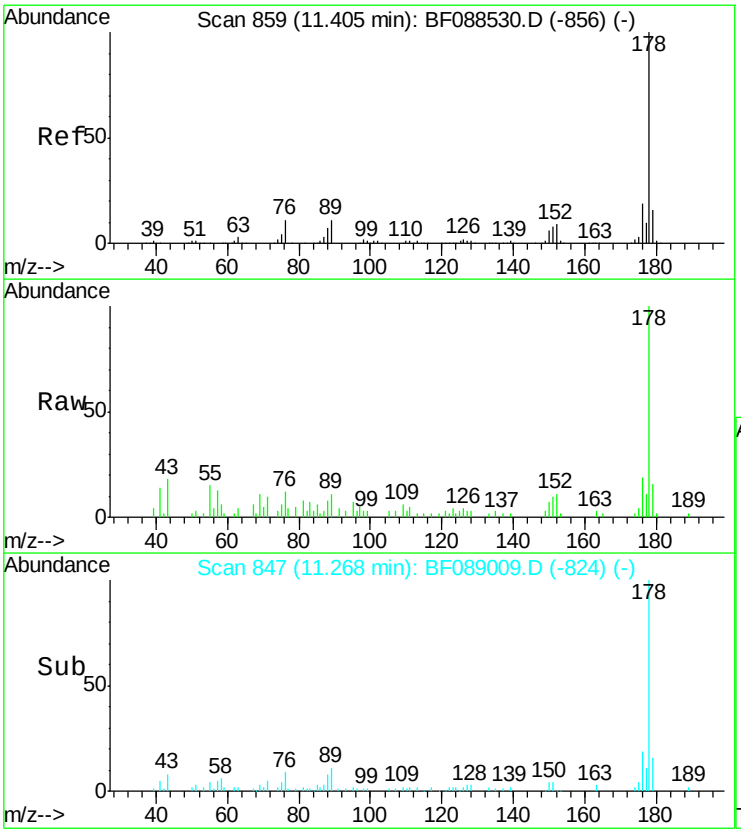

#70
Phenanthrene
Concen: 9.64 ng
RT: 11.22 min Scan# 843
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:178 Resp: 68563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.8 | 23.6 |
| 179 | 15.4 | 13.0 | 19.4 |

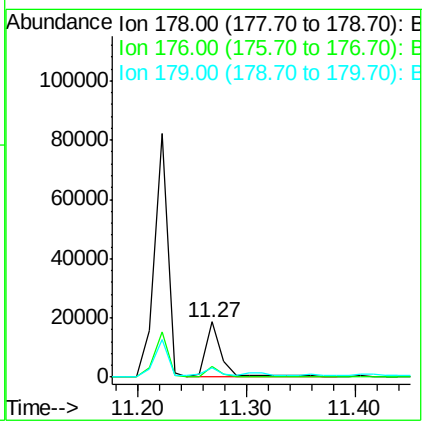


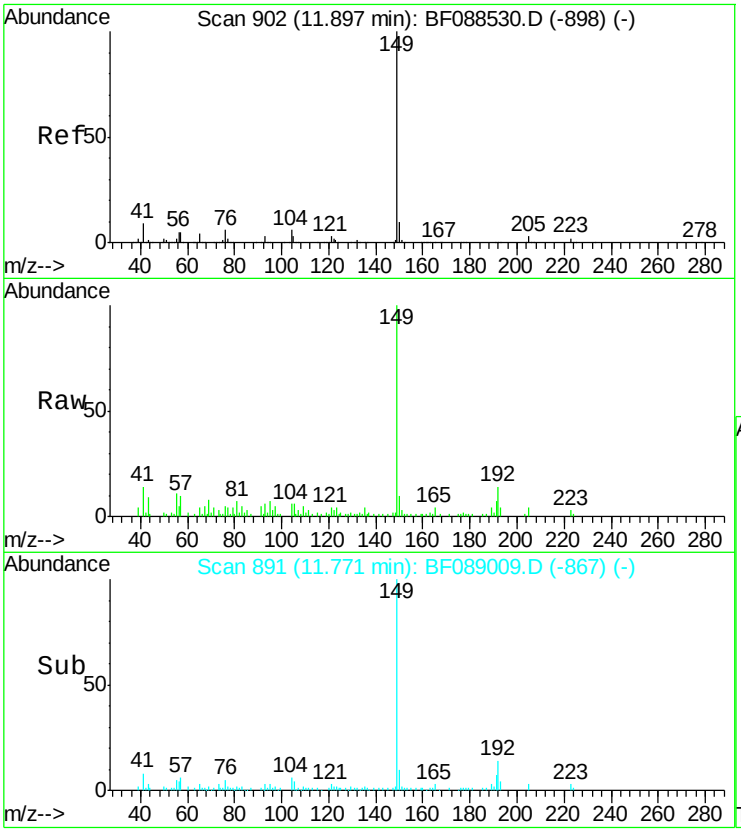




#71
Anthracene
Concen: 2.75 ng
RT: 11.27 min Scan# 847
Delta R.T. -0.03 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:178 Resp: 19466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.6 | 23.4 |
| 179 | 16.4 | 12.8 | 19.2 |



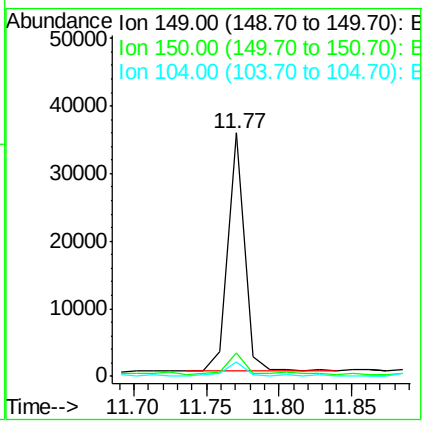


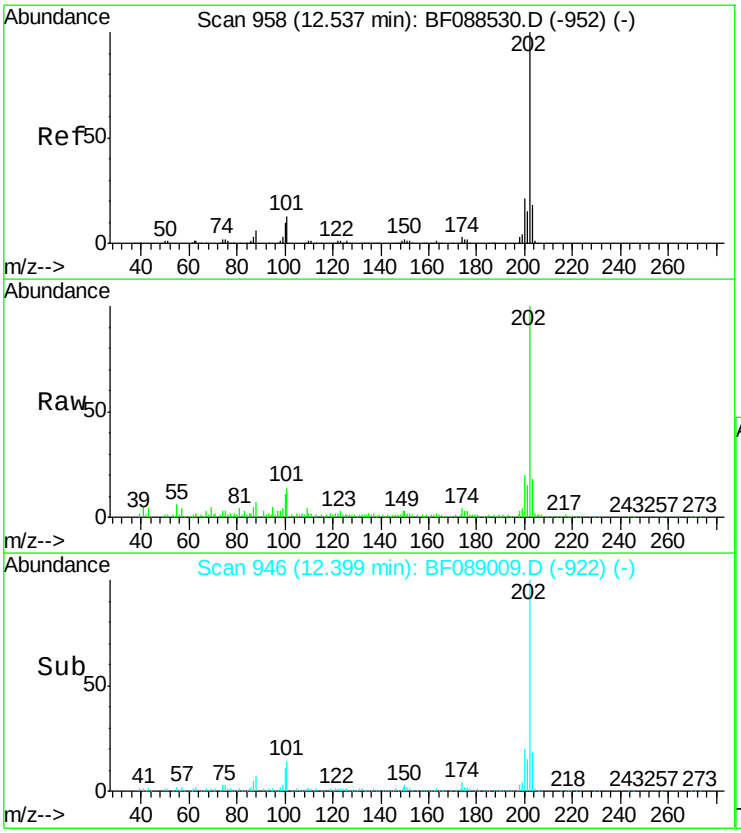

#73
Di-n-butylphthalate
Concen: 3.65 ng
RT: 11.77 min Scan# 891
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:149 Resp: 28240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.8 | 7.8 | 11.6 |
| 104 | 5.9 | 4.0 | 6.0 |

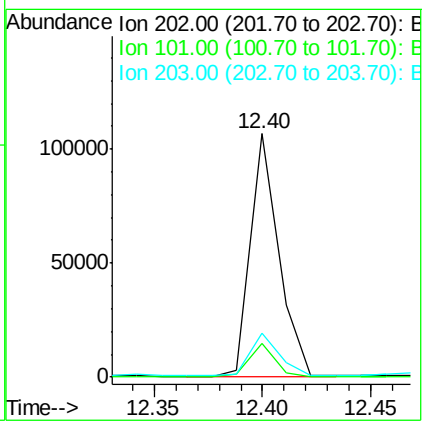


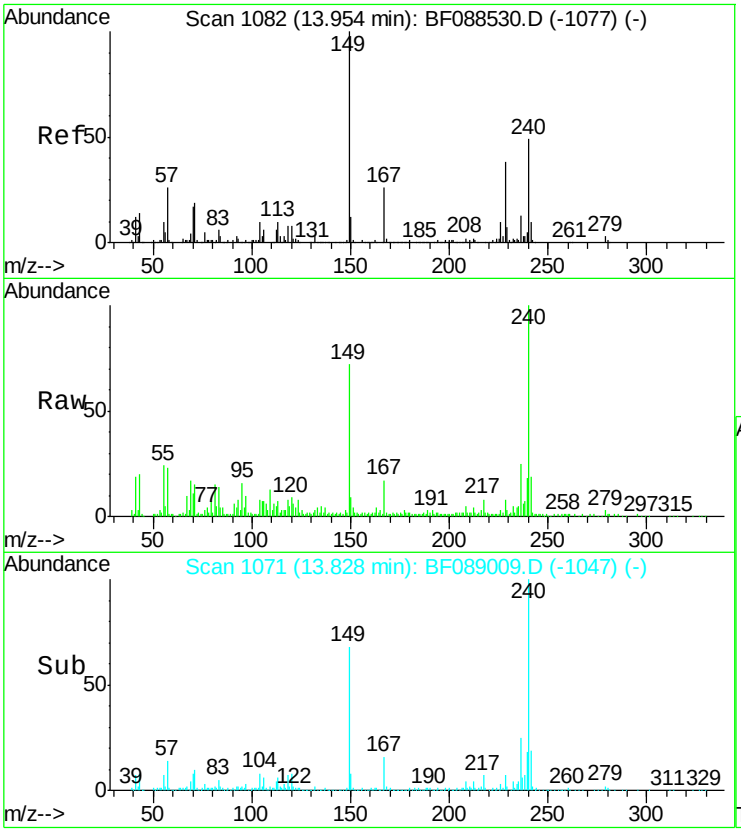




#74
Fluoranthene
Concen: 13.40 ng
RT: 12.40 min Scan# 946
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:202 Resp: 96581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 33.1 |
| 203 | 18.3 | 0.0 | 38.1 |



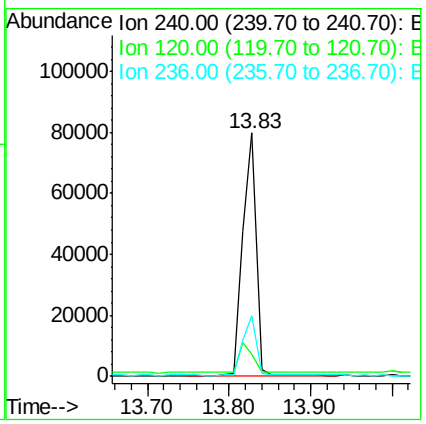


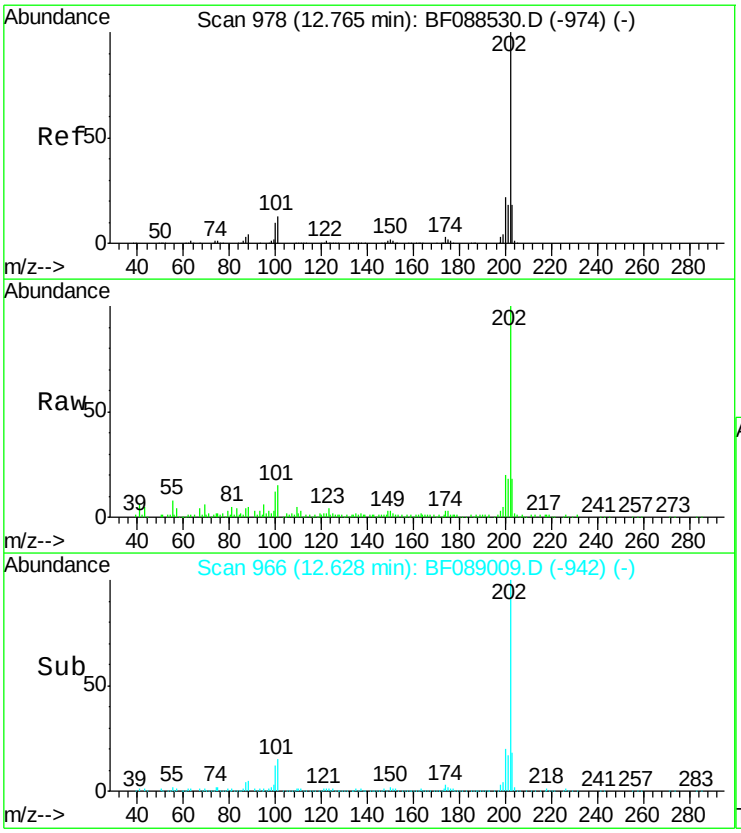

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:240 Resp: 92690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.1 | 6.8 | 10.2 |
| 236 | 25.1 | 20.2 | 30.2 |

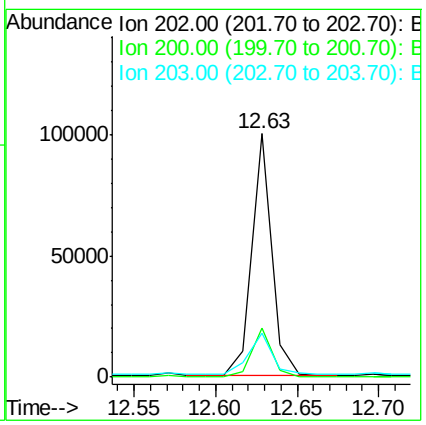


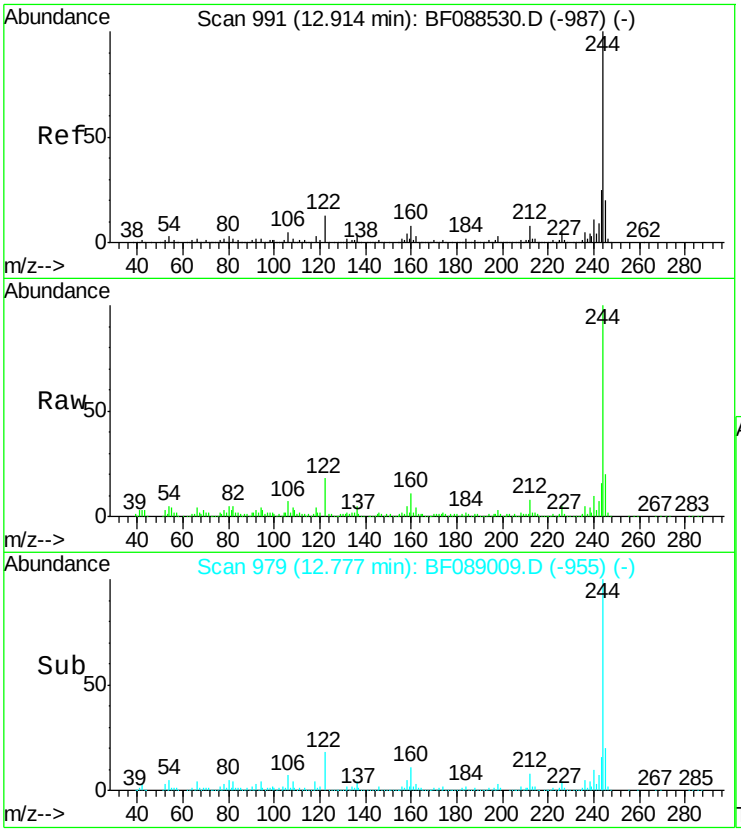




#77
Pyrene
Concen: 10.82 ng
RT: 12.63 min Scan# 966
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:202 Resp: 85046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.3 | 17.4 | 26.2 |
| 203 | 18.2 | 14.5 | 21.7 |



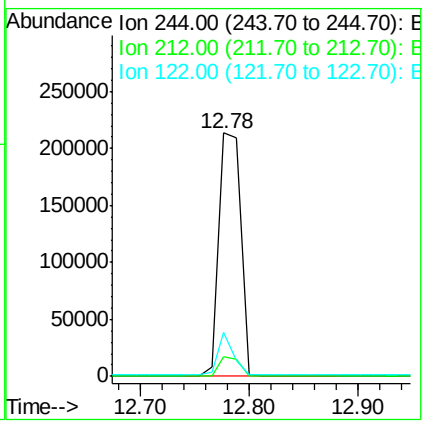


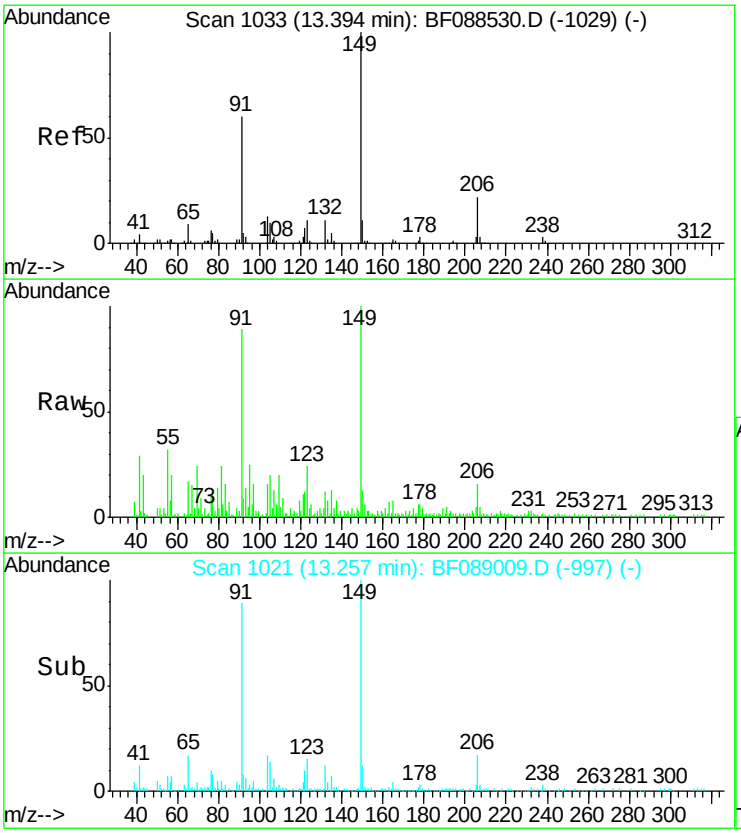

#78
Terphenyl-d14
Concen: 71.76 ng
RT: 12.78 min Scan# 979
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:244 Resp: 298610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.3 | 6.0 | 9.0 |
| 122 | 18.2 | 11.2 | 16.8# |

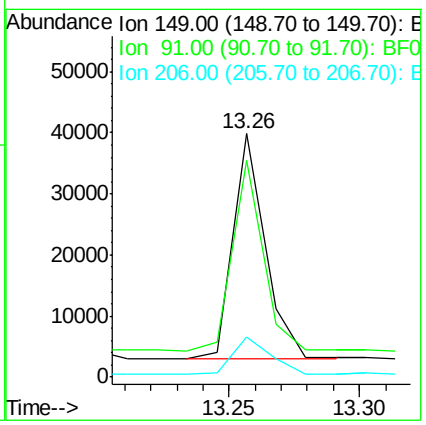


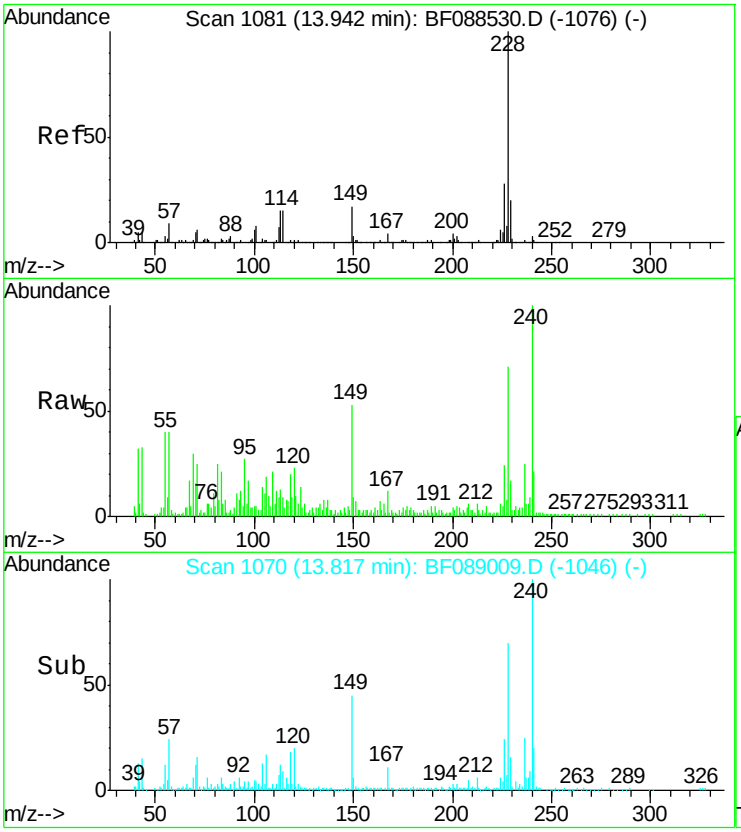




#79
Butylbenzylphthalate
Concen: 9.10 ng
RT: 13.26 min Scan# 1021
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:149 Resp: 31897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 88.9 | 48.0 | 72.0# |
| 206 | 16.4 | 16.0 | 24.0 |



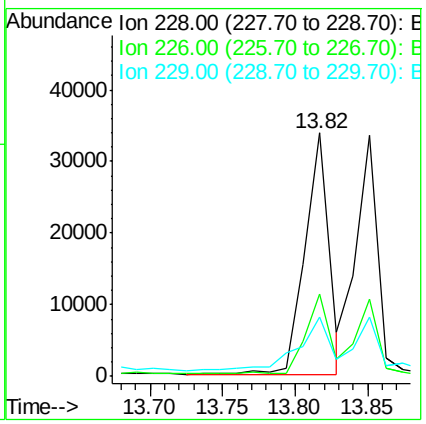


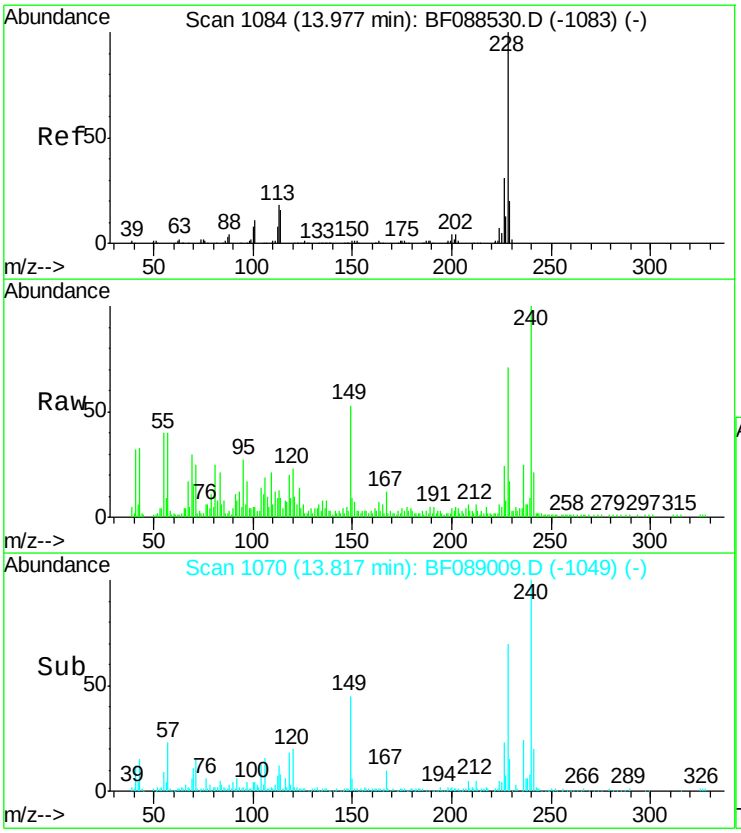

#80
Benzo(a)anthracene
Concen: 6.48 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:228 Resp: 38679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.7 | 22.3 | 33.5# |
| 229 | 24.2 | 16.0 | 24.0# |

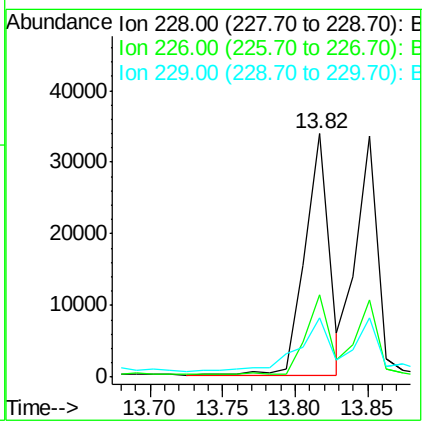


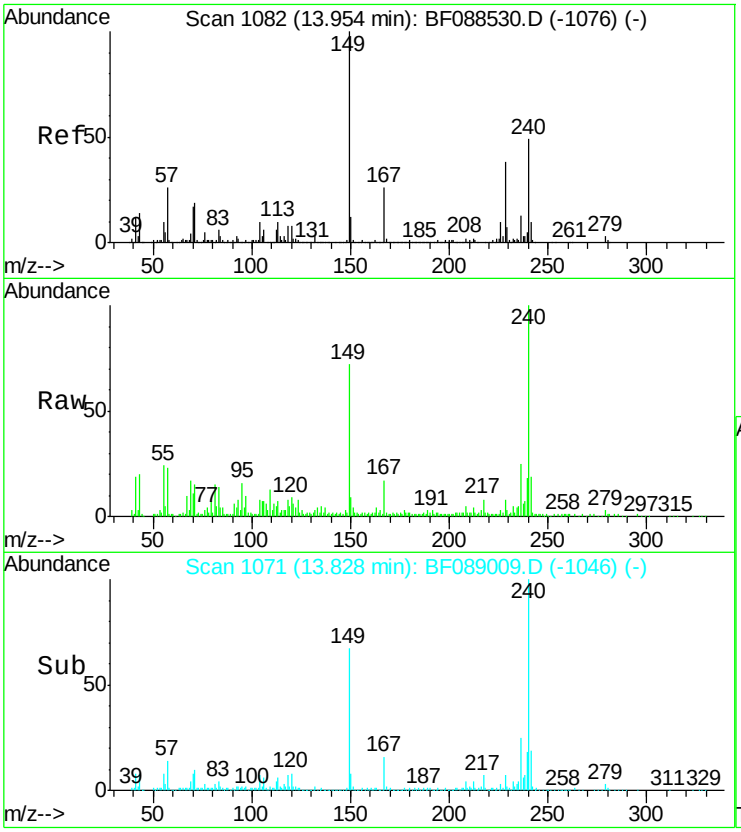




#82
Chrysene
Concen: 6.55 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.06 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:228 Resp: 38679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.7 | 25.4 | 38.2 |
| 229 | 24.2 | 16.3 | 24.5 |



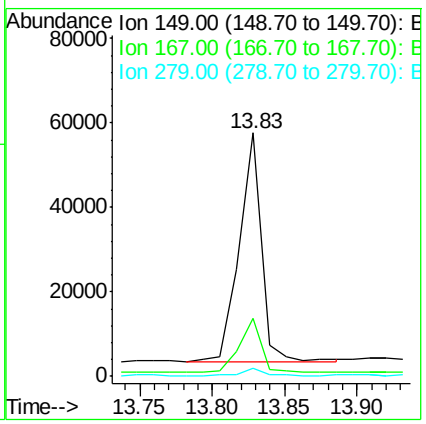


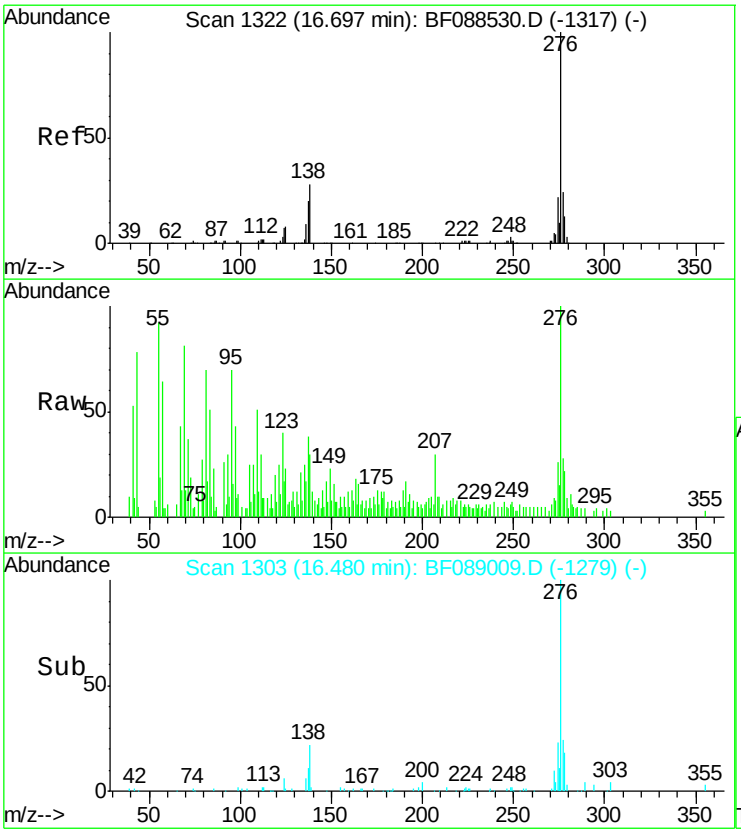

#83
Bis(2-ethylhexyl)phthalate
Concen: 14.27 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.01 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:149 Resp: 57105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.0 | 20.5 | 30.7 |
| 279 | 3.6 | 2.0 | 3.0# |

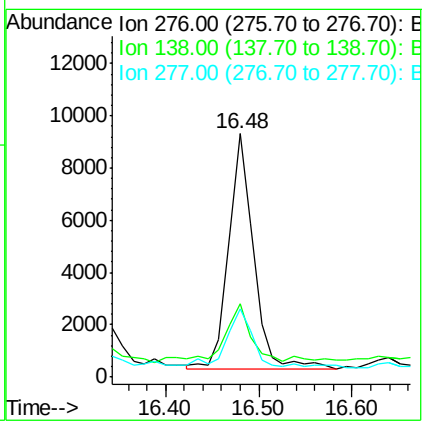


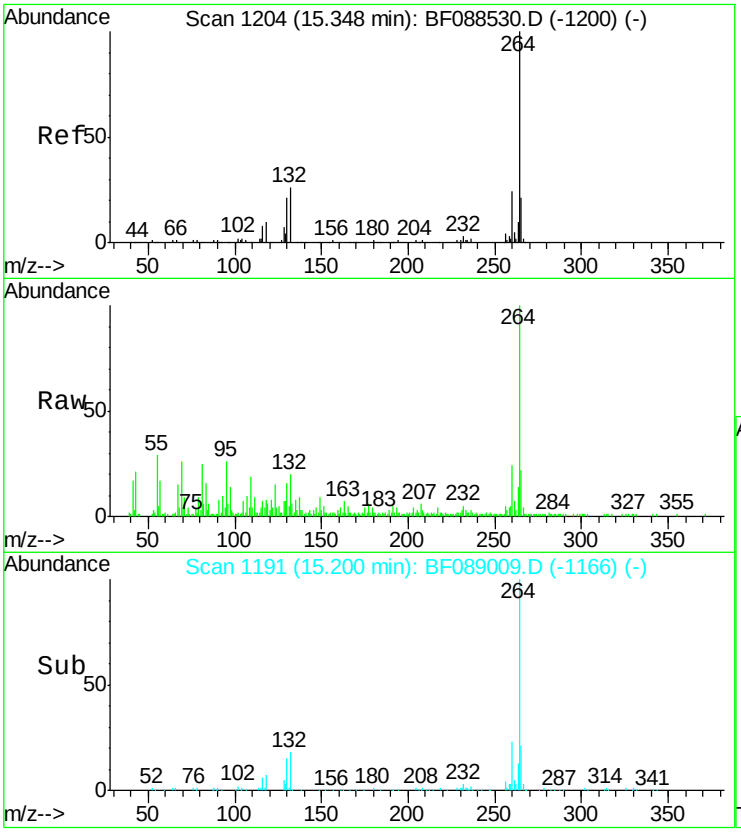




#85
Indeno(1,2,3-cd)pyrene
Concen: 3.69 ng
RT: 16.48 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:276 Resp: 16764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.3 | 0.0 | 0.0# |
| 277 | 24.3 | 0.0 | 0.0# |



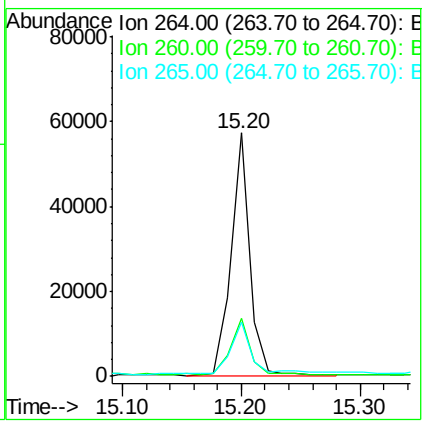


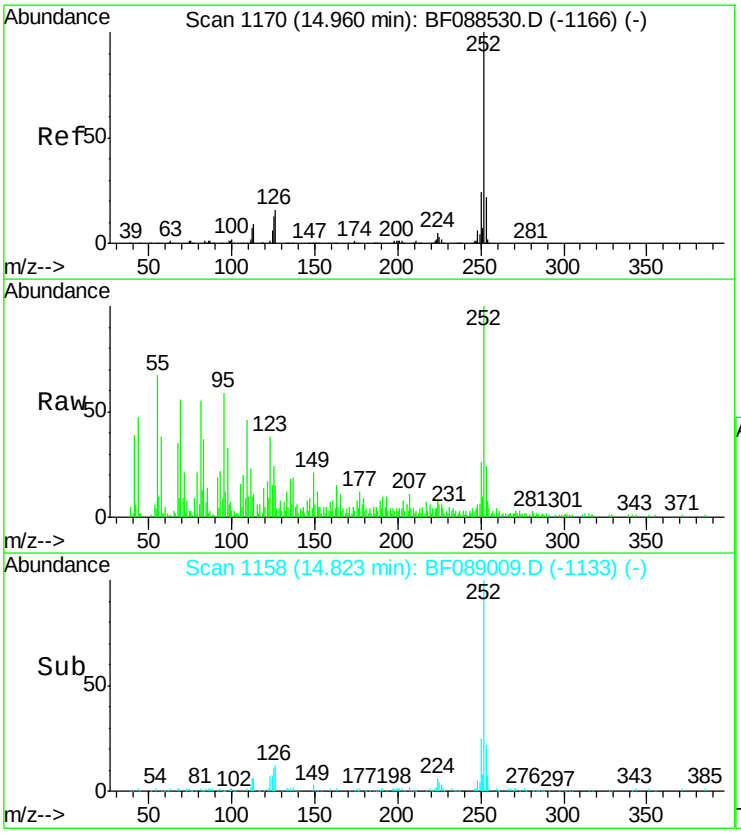

#86
Perylene-d12
Concen: 20.00 ng
RT: 15.20 min Scan# 1191
Delta R.T. -0.01 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:264 Resp: 64314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 19.2 | 28.8 |
| 265 | 22.4 | 16.9 | 25.3 |

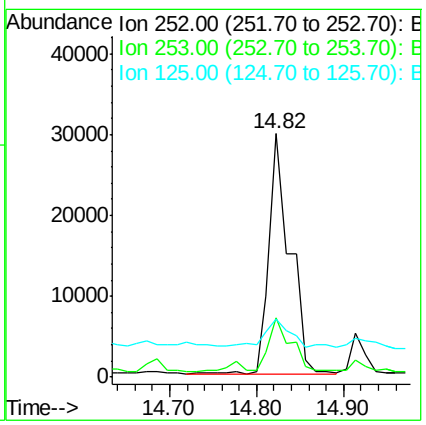


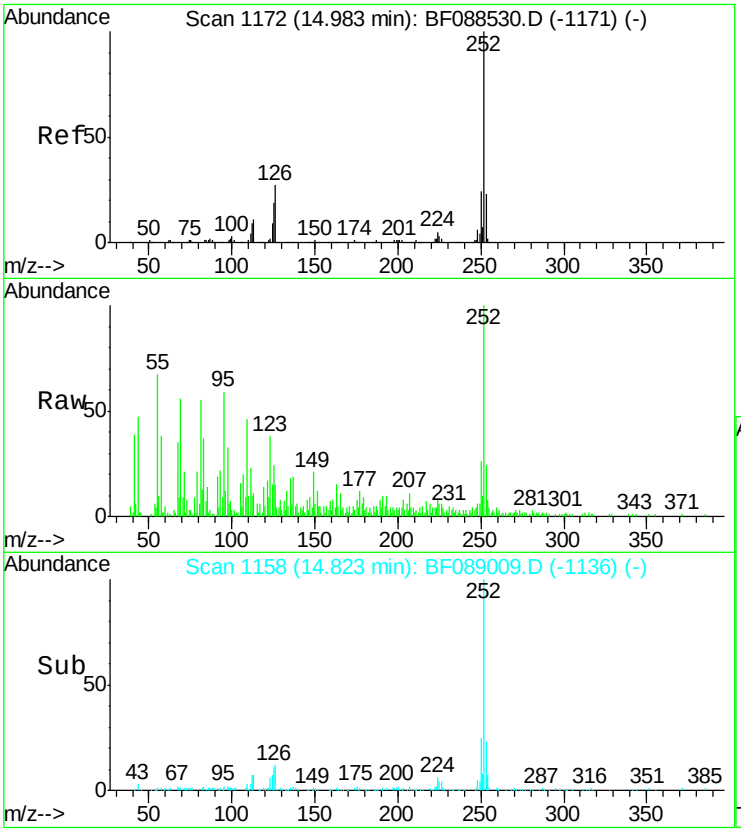




#87
Benzo(b)fluoranthene
Concen: 12.27 ng
RT: 14.82 min Scan# 1158
Delta R.T. -0.01 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:252 Resp: 49515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 17.4 | 26.2 |
| 125 | 23.6 | 7.1 | 10.7# |



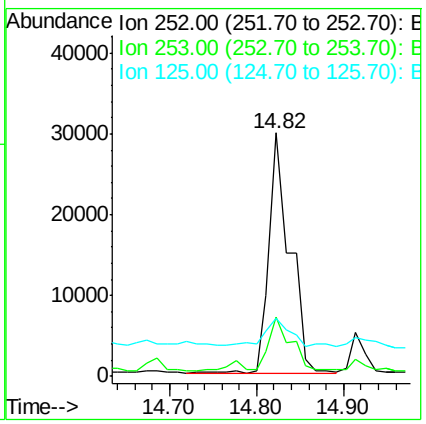


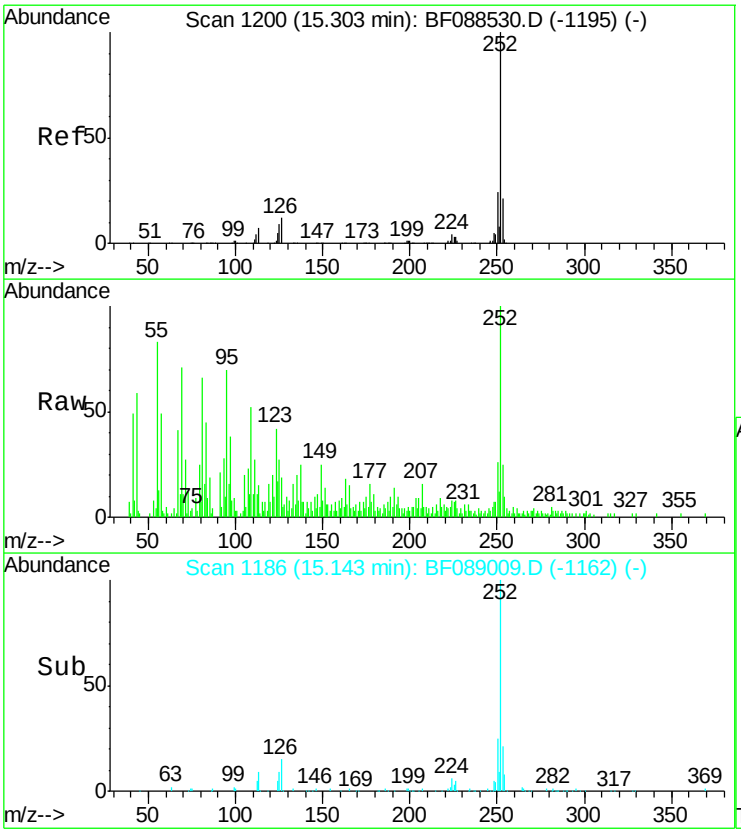

#88
Benzo(k)fluoranthene
Concen: 14.10 ng
RT: 14.82 min Scan# 1158
Delta R.T. -0.05 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:252 Resp: 49515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 18.0 | 27.0 |
| 125 | 23.6 | 11.2 | 16.8# |

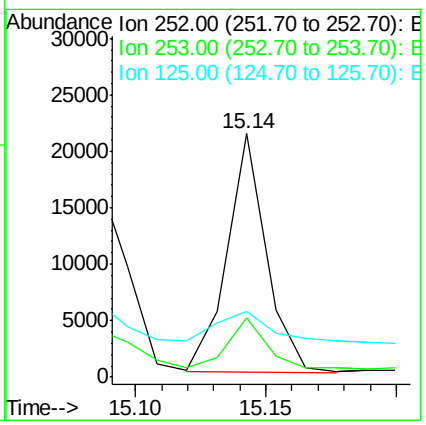


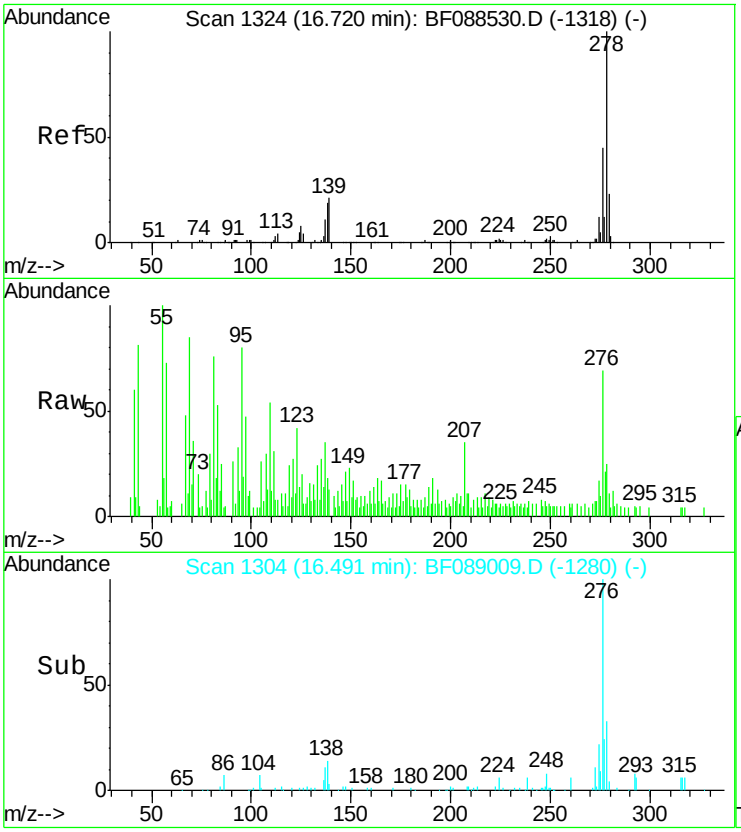




#89
Benzo(a)pyrene
Concen: 6.53 ng
RT: 15.14 min Scan# 1186
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:252 Resp: 22303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 17.9 | 26.9 |
| 125 | 27.2 | 12.5 | 18.7# |



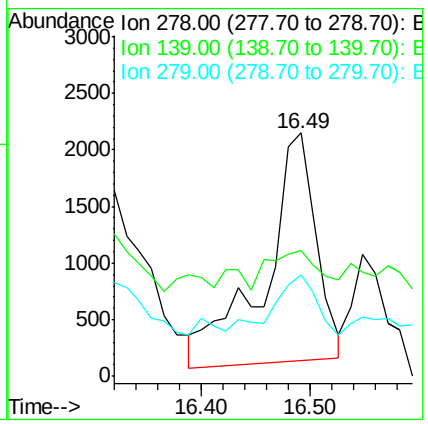


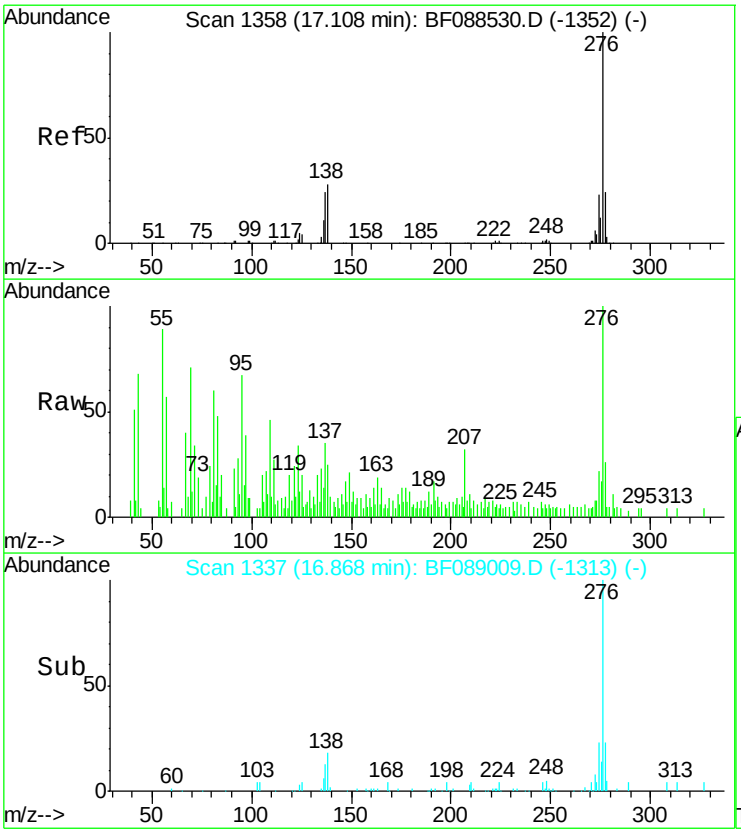

#90
Dibenzo(a,h)anthracene
Concen: 2.32 ng
RT: 16.49 min Scan# 1304
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

**Instrument :**
BNA_F
**ClientSampleId :**
LSS-SS-SS03(0-2in)

Tgt Ion:278 Resp: 6622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 51.6 | 15.7 | 23.5# |
| 279 | 41.8 | 19.4 | 29.2# |




#91
Benzo(g,h,i)perylene
Concen: 5.60 ng
RT: 16.87 min Scan# 1337
Delta R.T. -0.02 min
Lab File: BF089009.D
Acq: 15 Jul 2016 2:51

Tgt Ion:276 Resp: 16541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.3 | 18.9 | 28.3 |
| 138 | 24.8 | 21.4 | 32.2 |