Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031919\
Data File : BM019236.D
Acq On : 19 Mar 2019 14:40
Operator : JU/SJ
Sample : K1970-01DL 5X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :**

Quant Time: Mar 19 15:32:25 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 19 12:12:53 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.64 | 152 | 217182 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.43 | 136 | 979997 | 20.00 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.30 | 164 | 705046 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.06 | 188 | 1389344 | 20.00 | ng | | 0.01 |
| 76) Chrysene-d12 | 21.25 | 240 | 1184242 | 20.00 | ng | | 0.00 |
| 87) Perylene-d12 | 23.48 | 264 | 1108116 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.24 | 112 | 201337 | 15.01 | ng | | 0.00 |
| 7) Phenol-d6 | 6.82 | 99 | 338089 | 17.24 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.81 | 82 | 234573 | 11.31 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.80 | 330 | 202593 | 19.46 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.91 | 172 | 684558 | 12.63 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.69 | 244 | 985212 | 16.52 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 9) Benzaldehyde | 6.78 | 77 | 41358 | 3.352 | ng | # | 1 |
| 18) Hexachloroethane | 8.73 | 117 | 352769 | 54.601 | ng | # | 1 |
| 19) n-Nitroso-di-n-propylamine | 8.49 | 70 | 81493 | 5.064 | ng | # | 73 |
| 22) Acetophenone | 8.42 | 105 | 739439 | 27.303 | ng | # | 61 |
| 25) Isophorone | 9.33 | 82 | 180130 | 4.553 | ng | # | 1 |
| 31) Naphthalene | 10.47 | 128 | 793660 | 15.365 | ng | # | 87 |
| 35) Caprolactam | 11.43 | 113 | 383065 | 73.077 | ng | # | 56 |
| 37) 2-Methylnaphthalene | 12.10 | 142 | 3979698 | 106.026 | ng | | 100 |
| 38) 1-Methylnaphthalene | 12.33 | 142 | 3827985 | 103.467 | ng | | 100 |
| 46) 1,1'-Biphenyl | 13.13 | 154 | 1230729 | 19.988 | ng | | 100 |
| 49) Acenaphthylene | 14.03 | 152 | 192829 | 2.481 | ng | # | 1 |
| 52) Acenaphthene | 14.37 | 154 | 330818 | 7.409 | ng | | 92 |
| 55) Dibenzofuran | 14.70 | 168 | 477363 | 6.629 | ng | # | 1 |
| 56) 4-Nitrophenol | 14.52 | 139 | 280559 | 24.884 | ng | # | 55 |
| 57) 2,4-Dinitrotoluene | 14.70 | 165 | 173165 | 9.150 | ng | # | 57 |
| 58) Fluorene | 15.36 | 166 | 771192 | 12.992 | ng | # | 86 |
| 66) n-Nitrosodiphenylamine | 15.56 | 169 | 1058592 | 23.933 | ng | # | 50 |
| 69) Atrazine | 16.55 | 200 | 47818 | 3.212 | ng | # | 67 |
| 71) Phenanthrene | 17.10 | 178 | 2645080 | 32.481 | ng | # | 96 |
| 78) Pyrene | 19.49 | 202 | 555526 | 7.414 | ng | # | 86 |

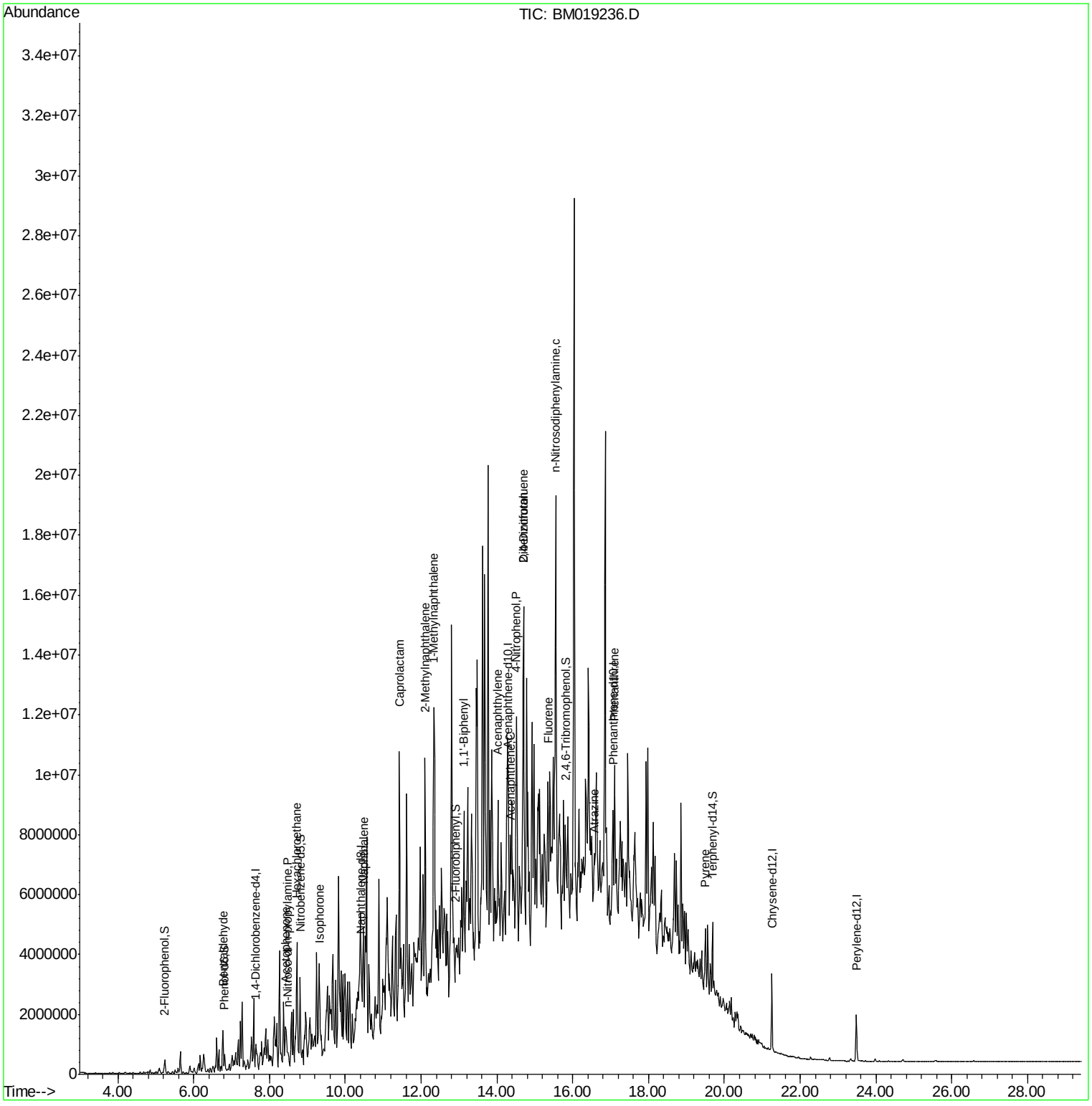
(#) = qualifier out of range (m) = manual integration (+) = signals summed

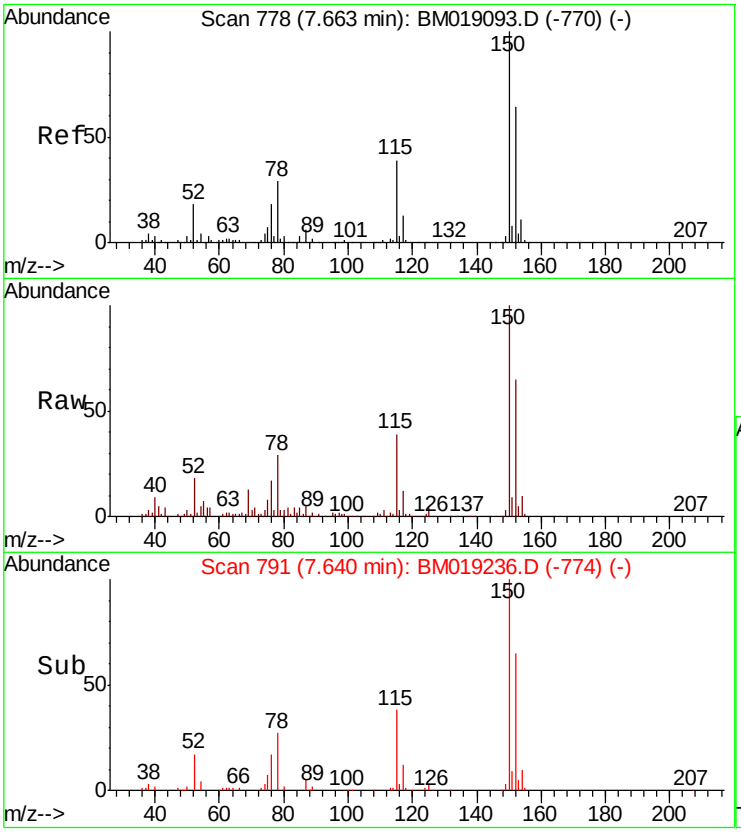
Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031919\
Data File : BM019236.D
Acq On : 19 Mar 2019 14:40
Operator : JU/SJ
Sample : K1970-01DL 5X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**

Quant Time: Mar 19 15:32:25 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 19 12:12:53 2019
Response via : Initial Calibration



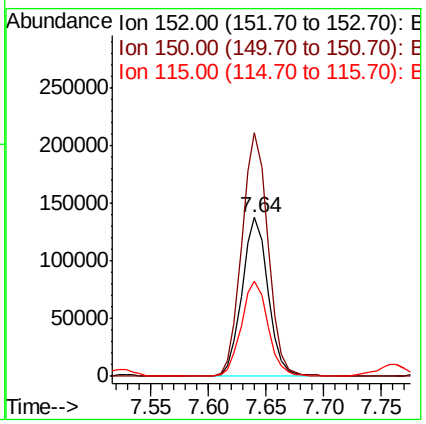


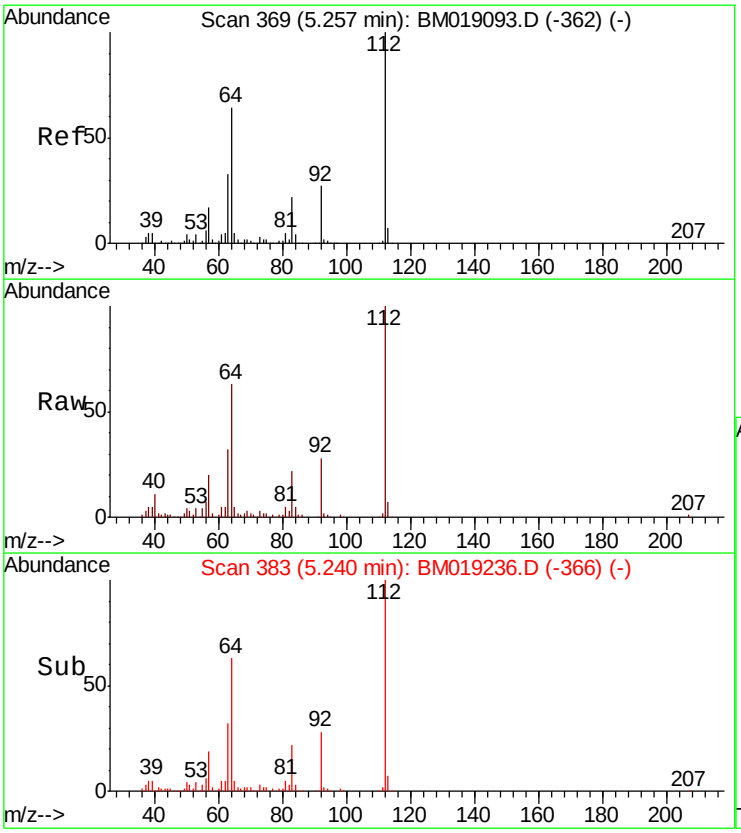

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.64 min Scan# 791
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:152 Resp: 217182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 124.6 | 187.0 |
| 115 | 60.1 | 48.2 | 72.4 |

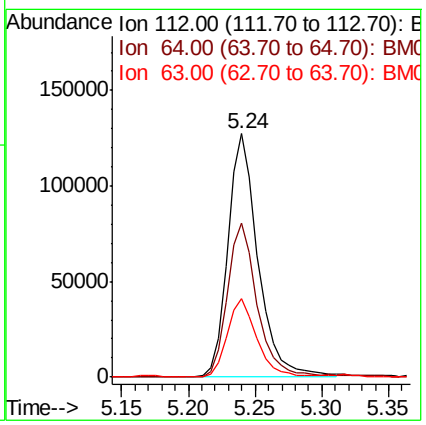


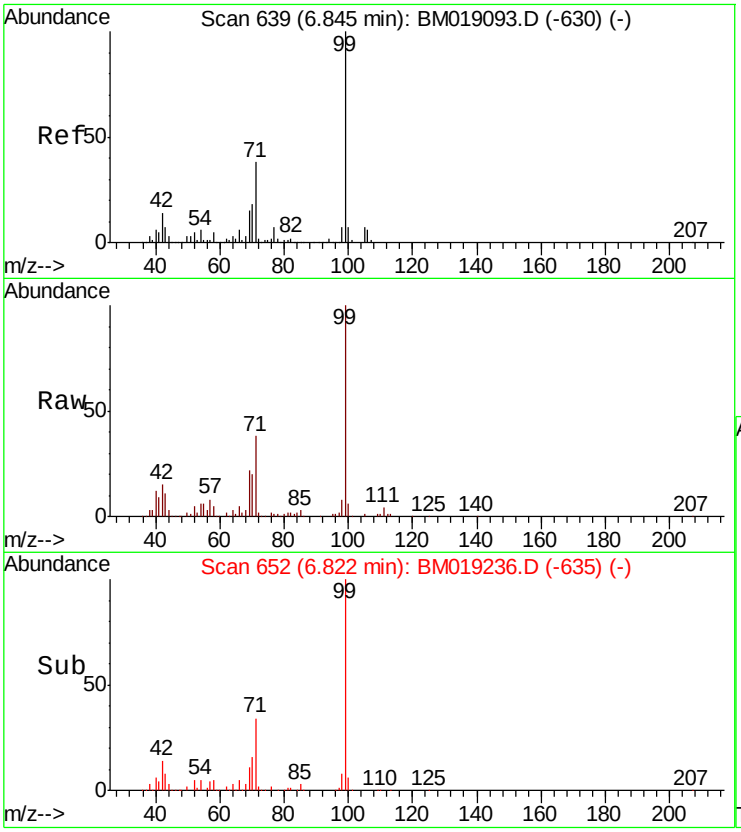




#5
2-Fluorophenol
Concen: 15.013 ng
RT: 5.24 min Scan# 383
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:112 Resp: 201337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.0 | 49.0 | 73.6 |
| 63 | 32.1 | 24.7 | 37.1 |



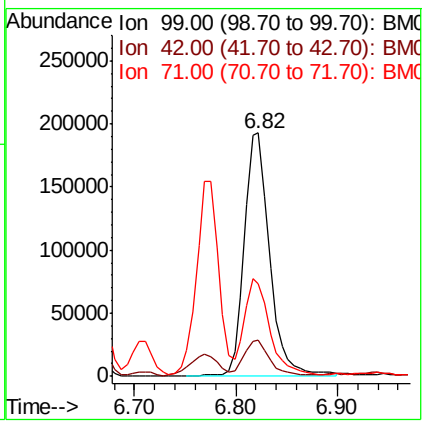


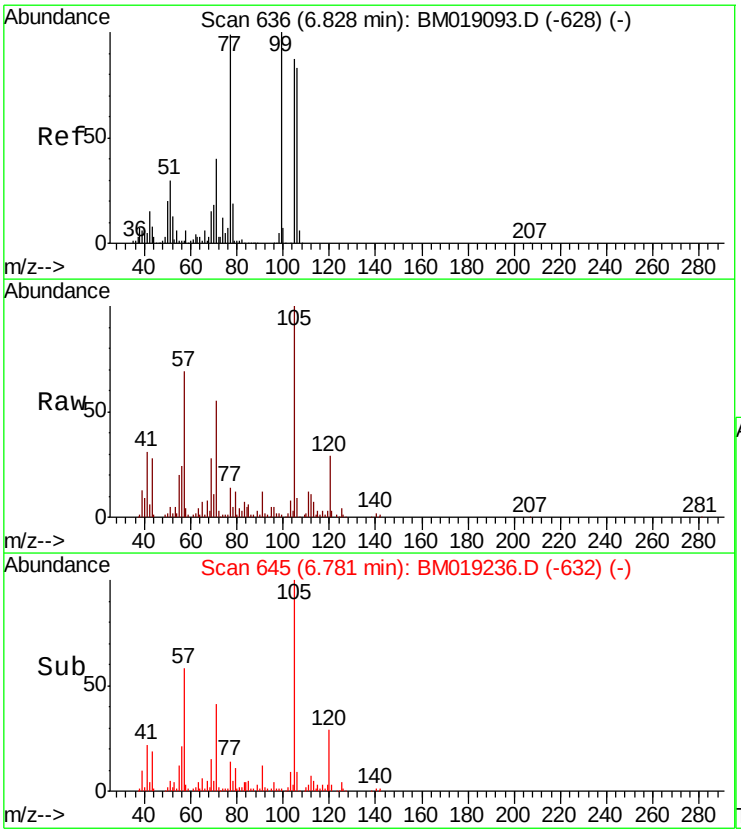

#7
Phenol-d6
Concen: 17.236 ng
RT: 6.82 min Scan# 652
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion: 99 Resp: 338089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.6 | 10.8 | 16.2 |
| 71 | 38.0 | 30.1 | 45.1 |

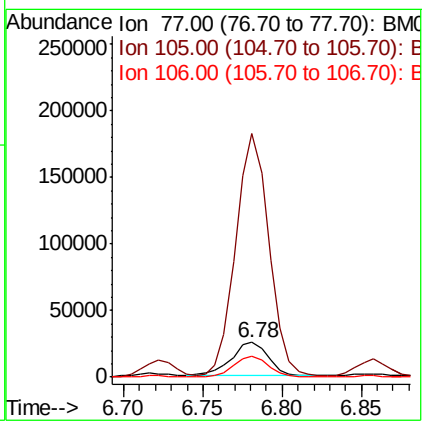


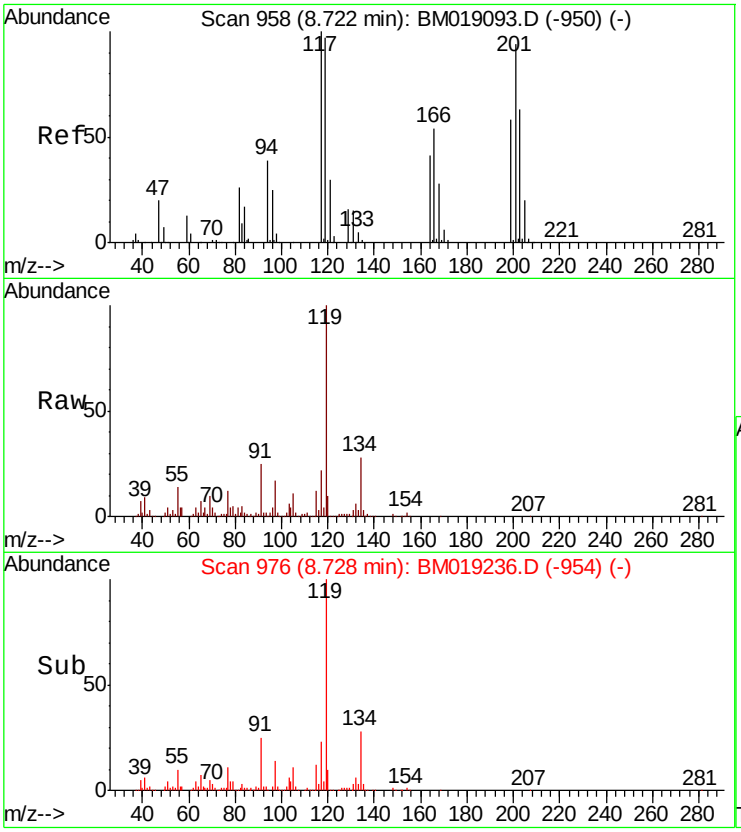




#9
Benzaldehyde
Concen: 3.352 ng
RT: 6.78 min Scan# 645
Delta R.T. -0.02 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion: 77 Resp: 41358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 707.7 | 68.4 | 108.4# |
| 106 | 61.5 | 65.9 | 105.9# |



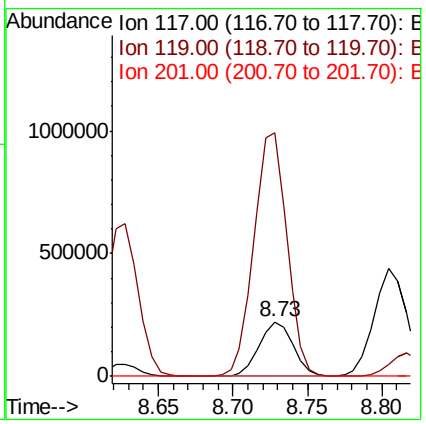


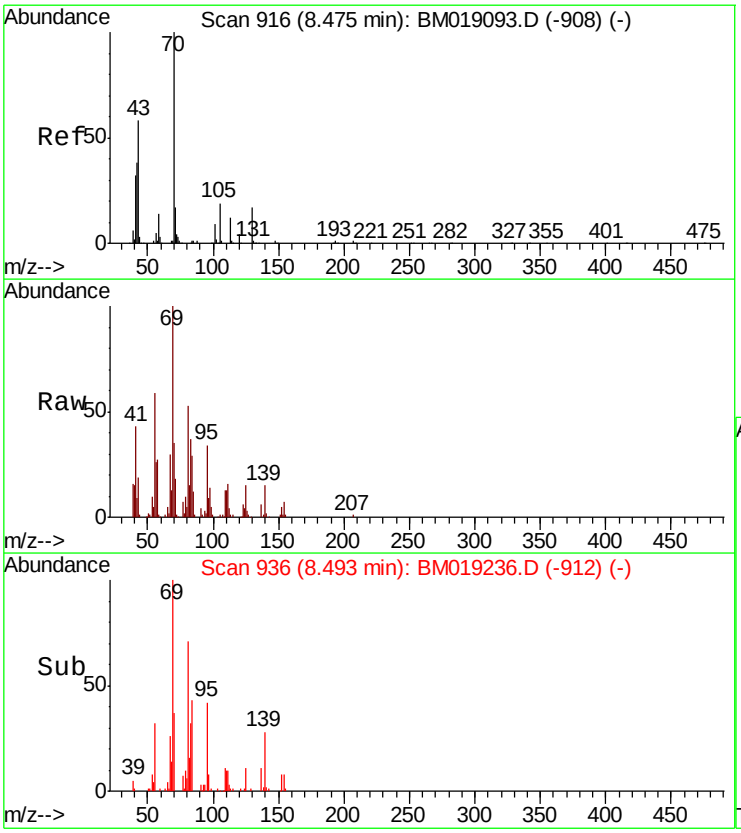

#18
Hexachloroethane
Concen: 54.601 ng
RT: 8.73 min Scan# 976
Delta R.T. 0.03 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:117 Resp: 352769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 448.8 | 75.6 | 113.4# |
| 201 | 0.0 | 81.4 | 122.0# |

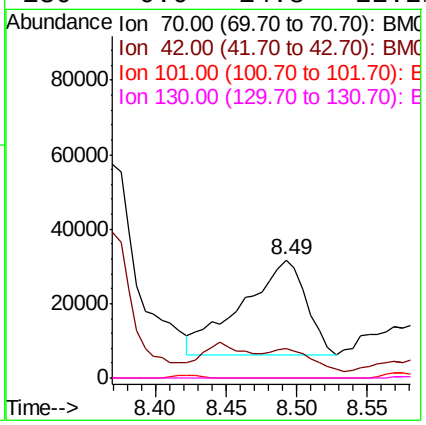


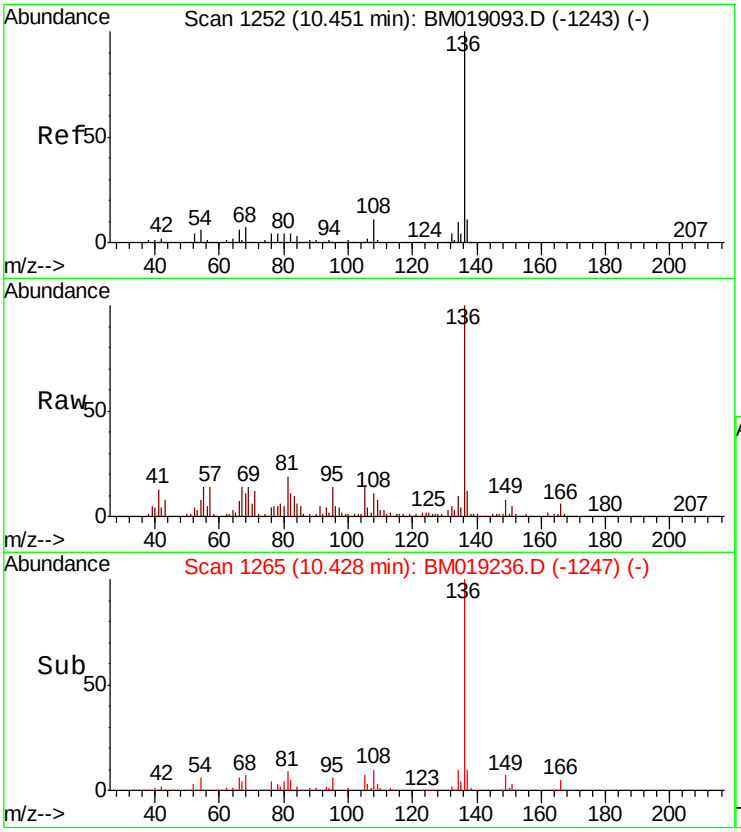




#19
n-Nitroso-di-n-propylamine
Concen: 5.064 ng
RT: 8.49 min Scan# 936
Delta R.T. 0.04 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion: 70 Resp: 81493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 25.3 | 29.8 | 44.6# |
| 101 | 0.0 | 7.4 | 11.2# |
| 130 | 0.0 | 14.8 | 22.2# |



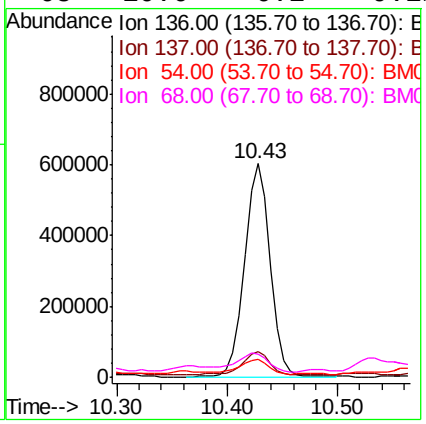


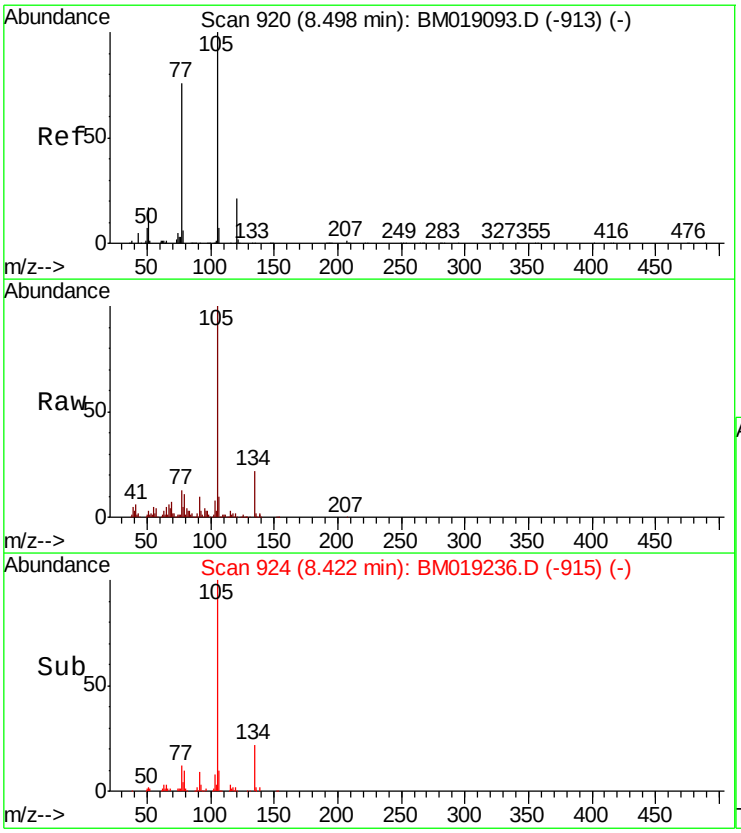

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.43 min Scan# 1265
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:136 Resp: 979997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 9.0 | 13.4 |
| 54 | 8.1 | 5.2 | 7.8# |
| 68 | 10.6 | 6.1 | 9.1# |

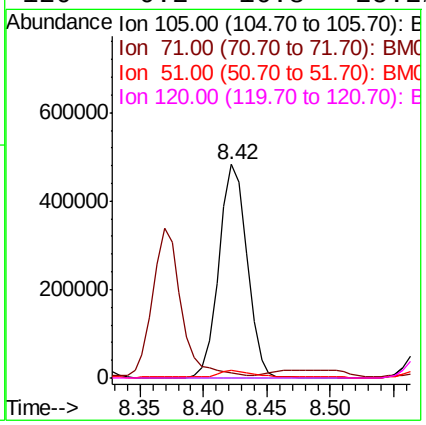


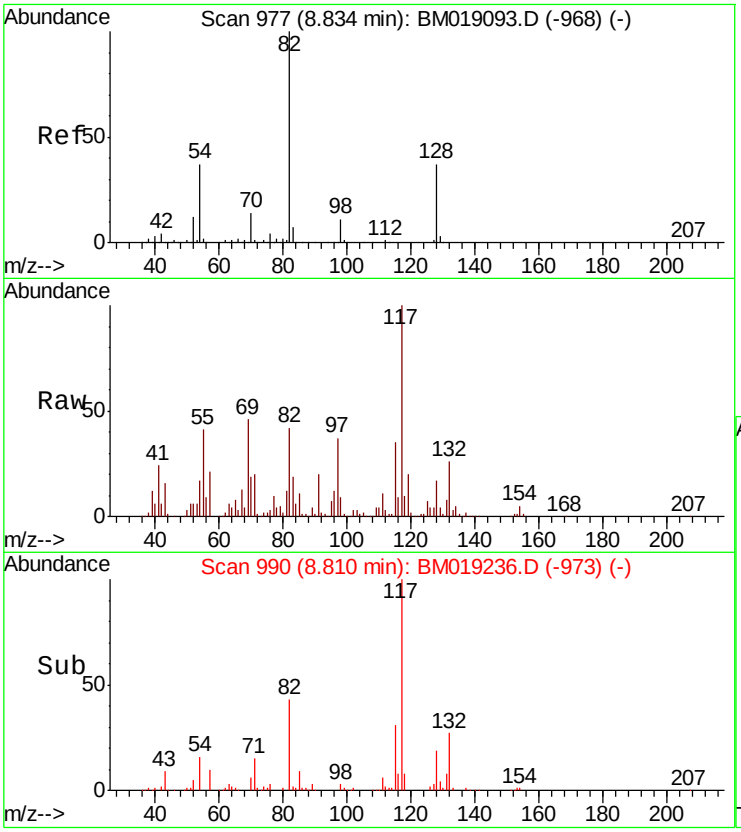




#22
Acetophenone
Concen: 27.303 ng
RT: 8.42 min Scan# 924
Delta R.T. -0.05 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:105 Resp: 739439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 2.1 | 1.4 | 2.2 |
| 51 | 3.3 | 15.8 | 23.8# |
| 120 | 0.2 | 16.8 | 25.2# |



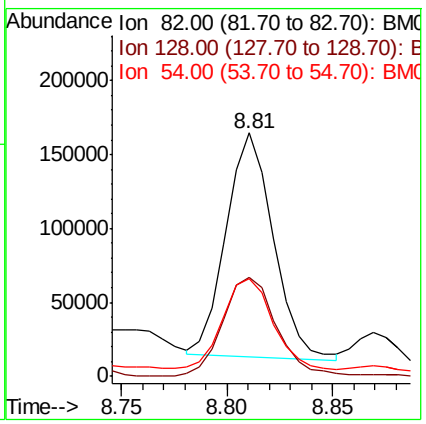


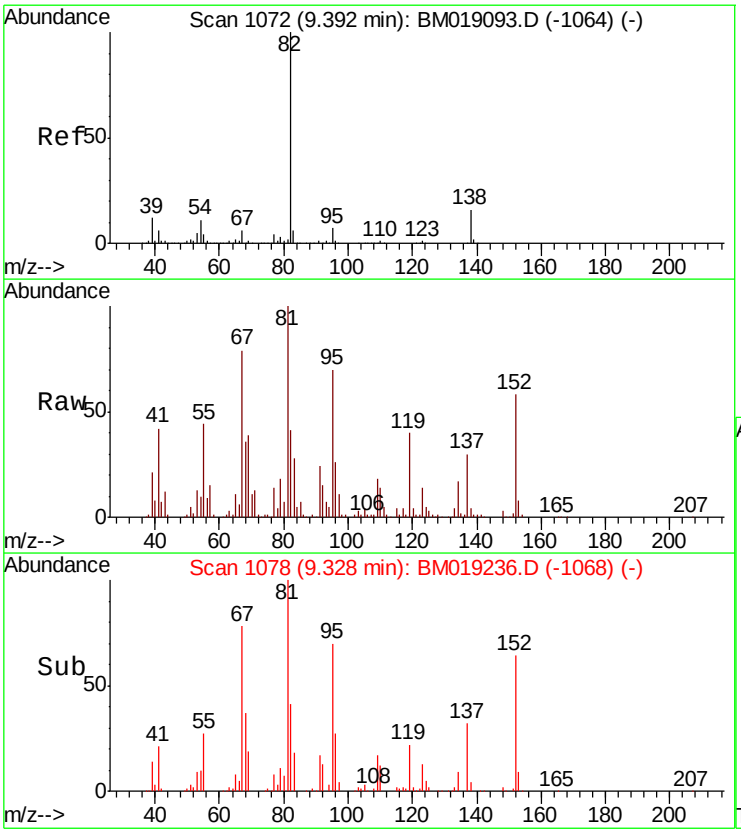

#23
Nitrobenzene-d5
Concen: 11.315 ng
RT: 8.81 min Scan# 990
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion: 82 Resp: 234573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.8 | 30.2 | 45.4 |
| 54 | 40.2 | 29.0 | 43.4 |

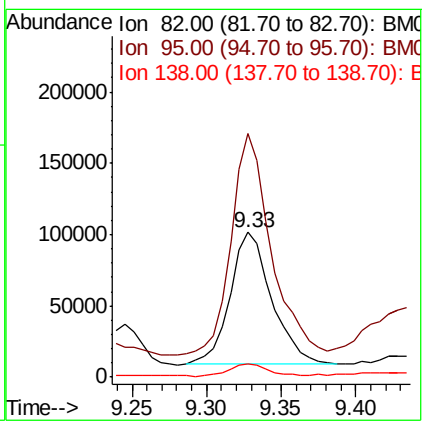


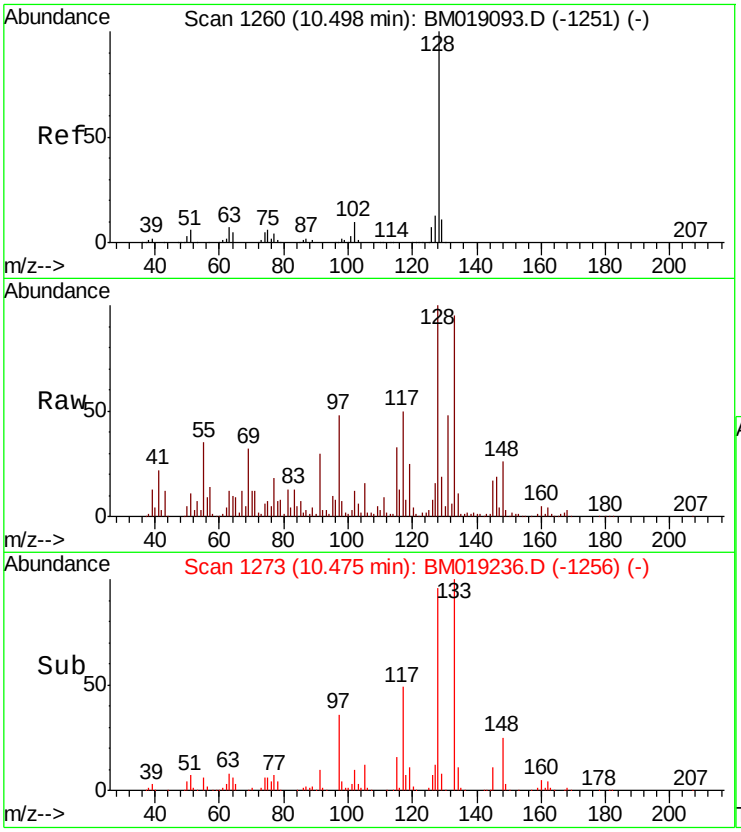




#25
Isophorone
Concen: 4.553 ng
RT: 9.33 min Scan# 1078
Delta R.T. -0.04 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion: 82 Resp: 180130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 168.4 | 5.6 | 8.4# |
| 138 | 9.3 | 12.6 | 19.0# |



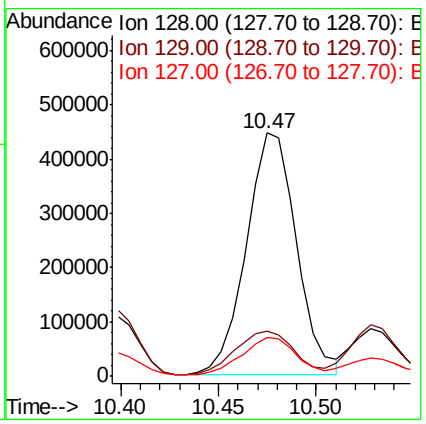


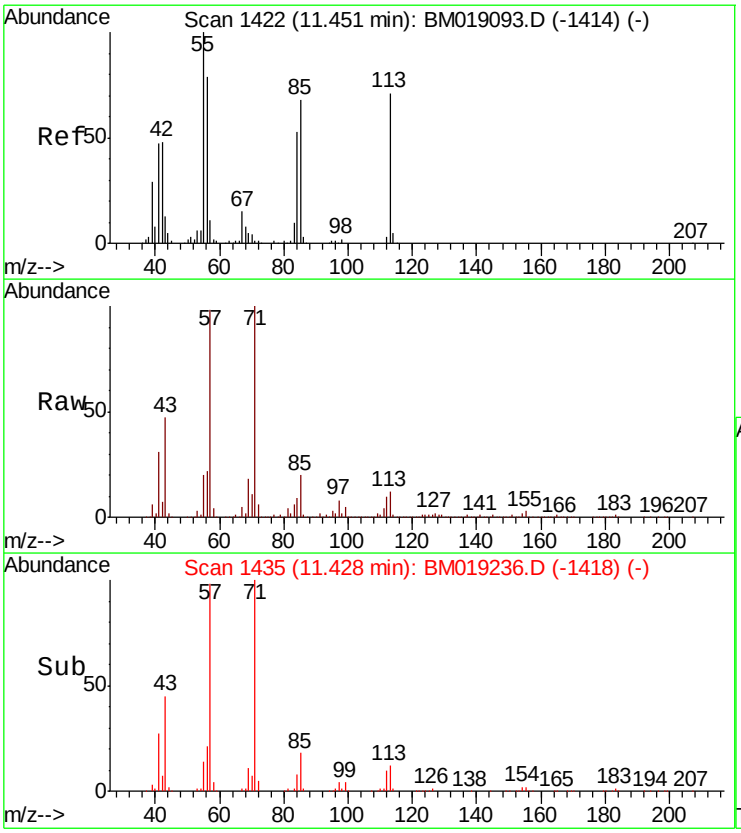

#31
Naphthalene
Concen: 15.365 ng
RT: 10.47 min Scan# 1273
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:128 Resp: 793660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 18.7 | 8.6 | 12.8# |
| 127 | 15.8 | 10.6 | 15.8 |

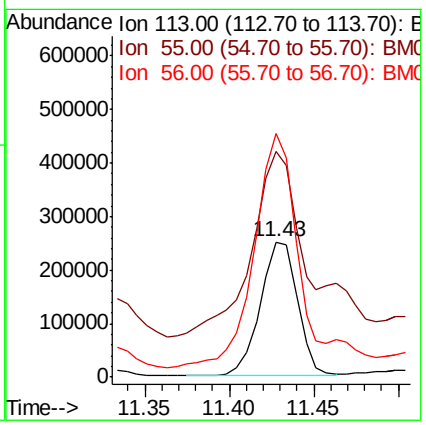


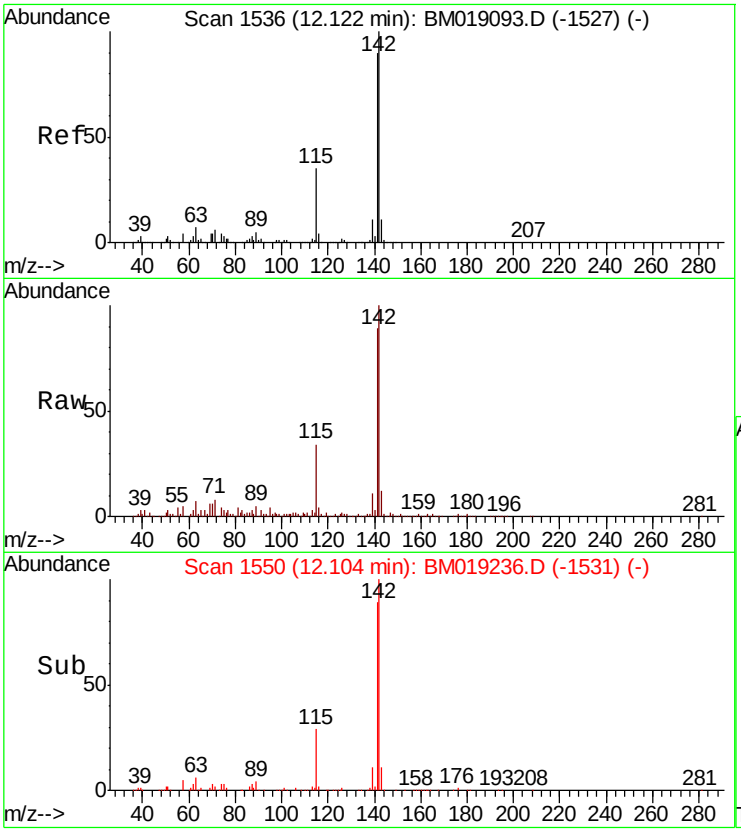




#35
Caprolactam
Concen: 73.077 ng
RT: 11.43 min Scan# 1435
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:113 Resp: 383065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 167.0 | 118.8 | 158.8# |
| 56 | 179.8 | 87.0 | 127.0# |



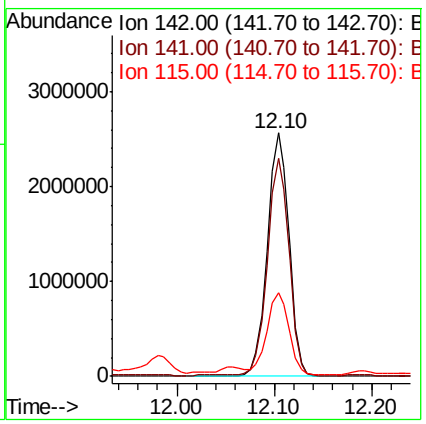


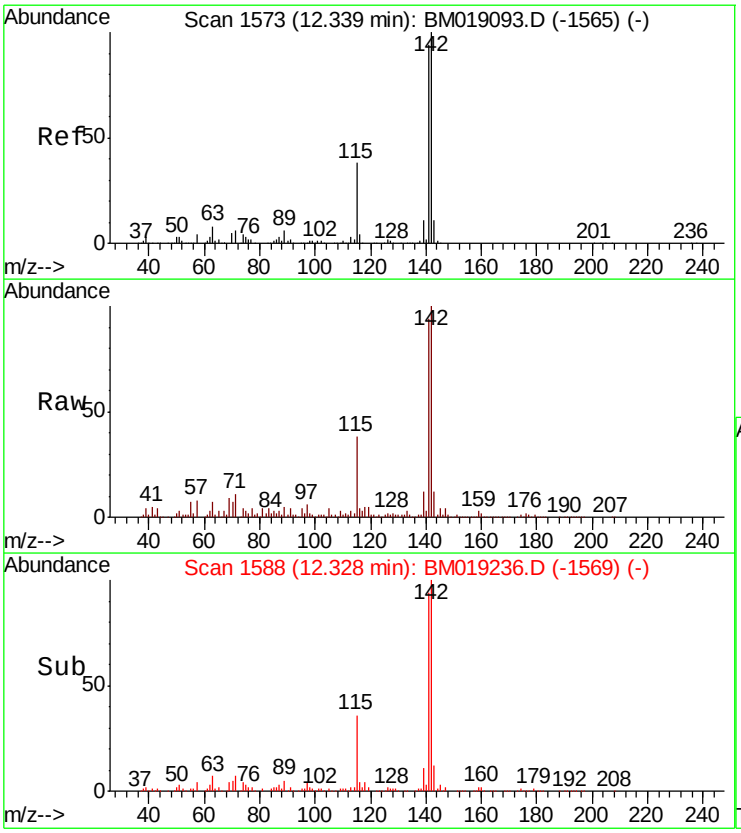

#37
2-Methylnaphthalene
Concen: 106.026 ng
RT: 12.10 min Scan# 1550
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:142 Resp: 3979698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.4 | 71.4 | 107.0 |
| 115 | 34.3 | 28.0 | 42.0 |

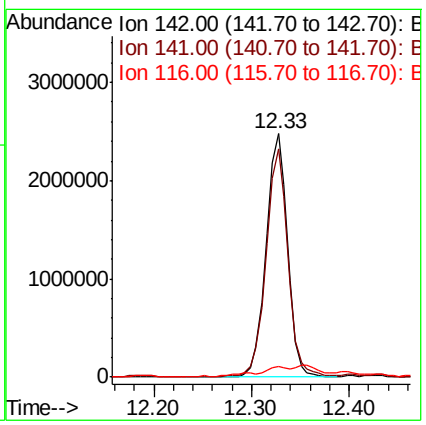


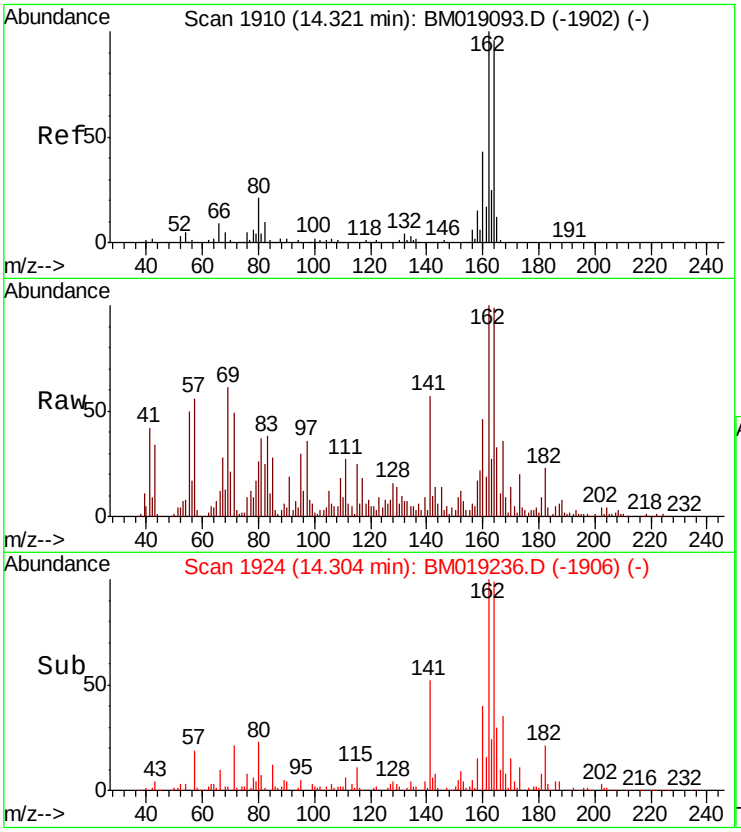




#38
1-Methylnaphthalene
Concen: 103.467 ng
RT: 12.33 min Scan# 1588
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:142 Resp: 3827985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.8 | 74.7 | 112.1 |
| 116 | 4.5 | 3.1 | 4.7 |



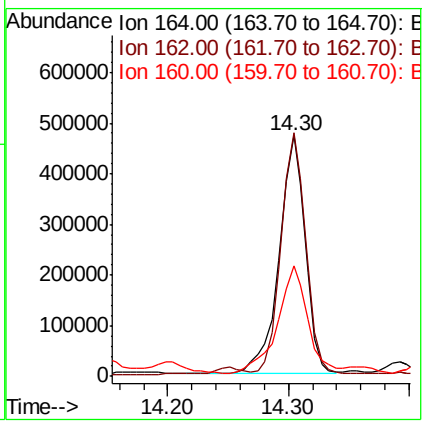


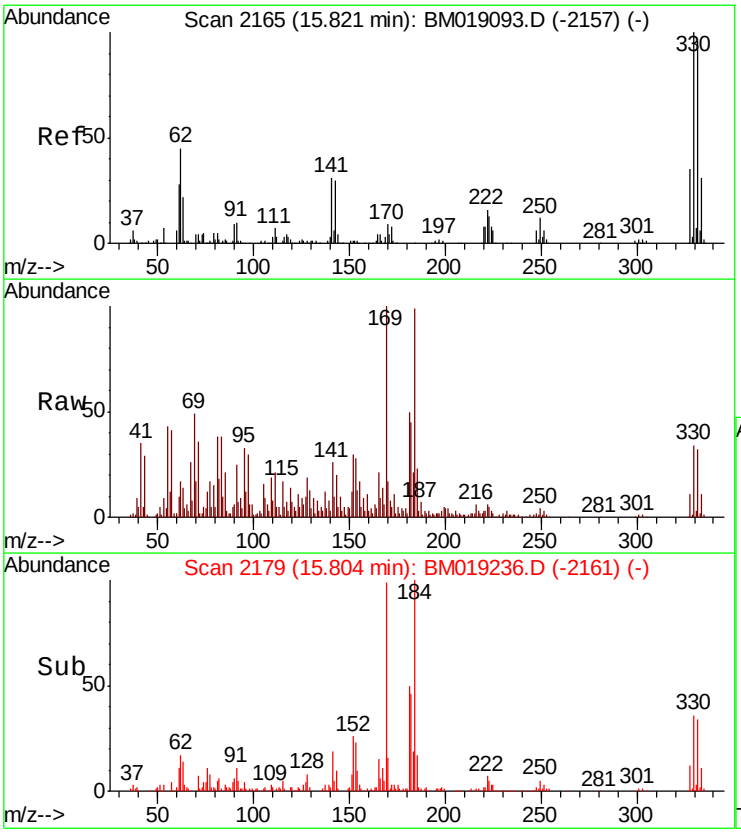

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.30 min Scan# 1924
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:164 Resp: 705046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.2 | 83.8 | 125.6 |
| 160 | 46.2 | 36.7 | 55.1 |

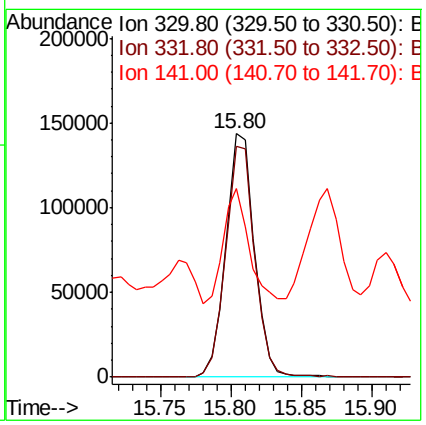


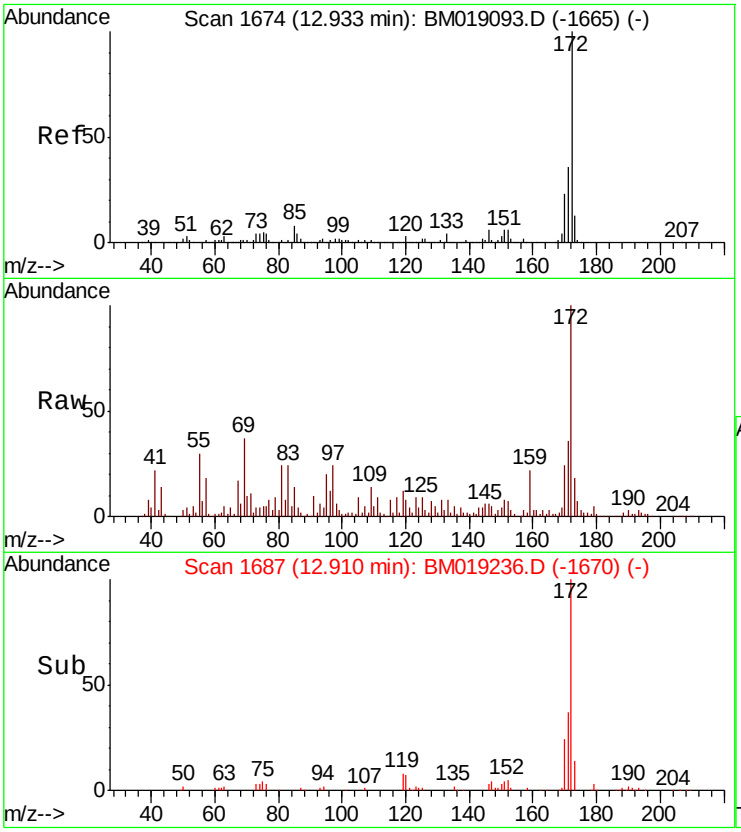




#42
2,4,6-Tribromophenol
Concen: 19.462 ng
RT: 15.80 min Scan# 2179
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:330 Resp: 202593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 77.6 | 116.4 |
| 141 | 41.6 | 26.2 | 39.2# |



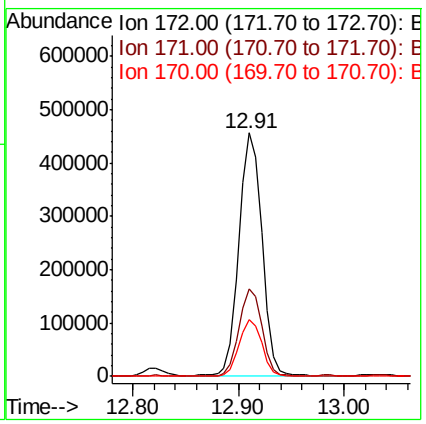


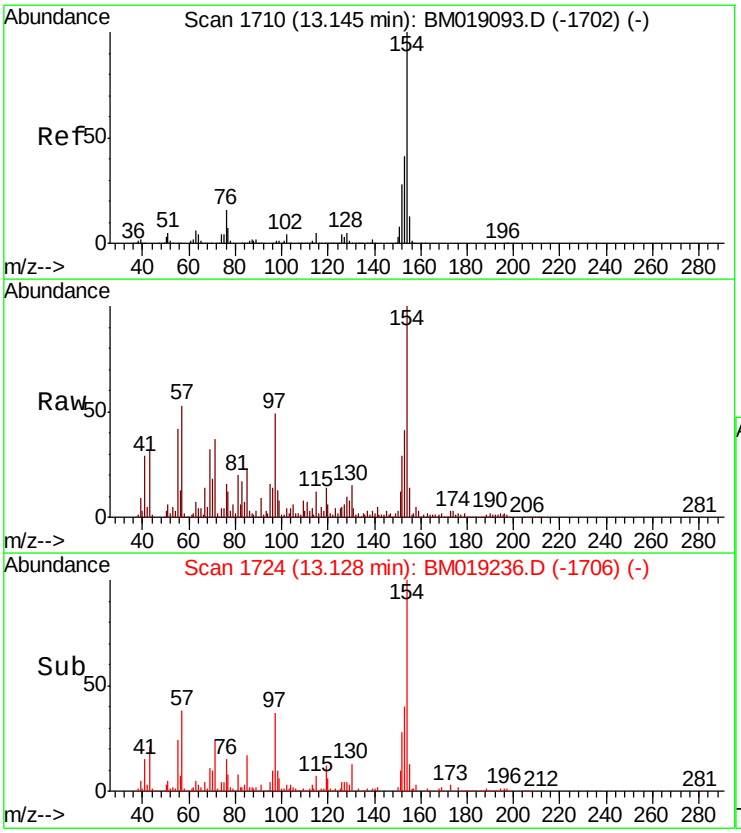

#45
2-Fluorobiphenyl
Concen: 12.630 ng
RT: 12.91 min Scan# 1687
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:172 Resp: 684558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.9 | 43.3 |
| 170 | 23.5 | 18.9 | 28.3 |

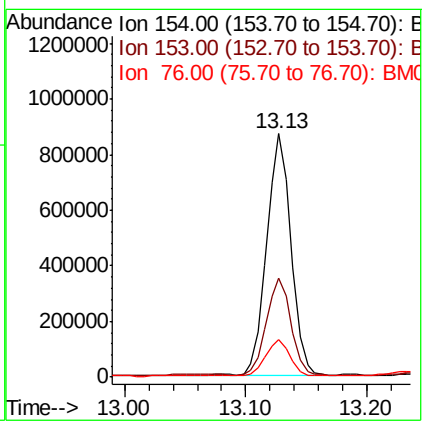


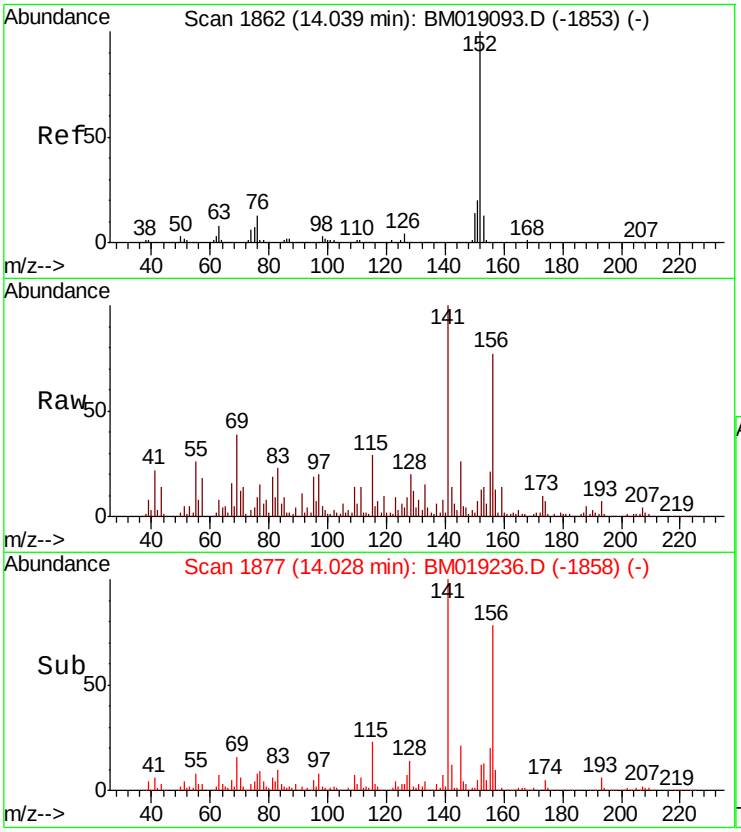




#46
1,1'-Biphenyl
Concen: 19.988 ng
RT: 13.13 min Scan# 1724
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:154 Resp: 1230729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.8 | 20.8 | 60.8 |
| 76 | 15.6 | 0.0 | 35.5 |



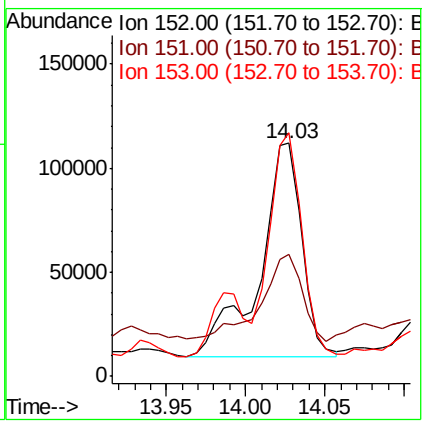


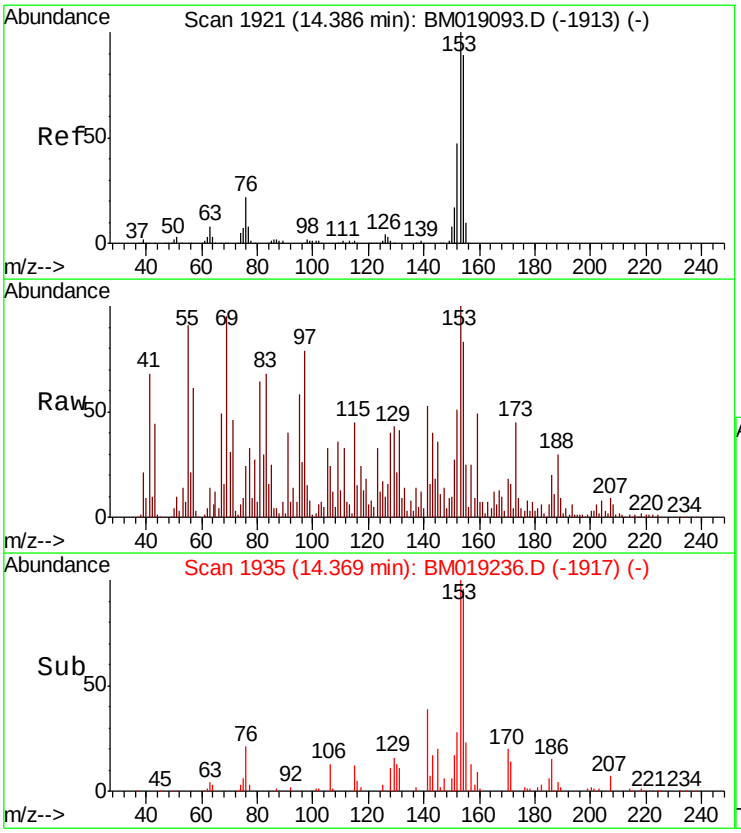

#49
Acenaphthylene
Concen: 2.481 ng
RT: 14.03 min Scan# 1877
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:152 Resp: 192829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 52.2 | 16.1 | 24.1# |
| 153 | 104.4 | 10.6 | 16.0# |

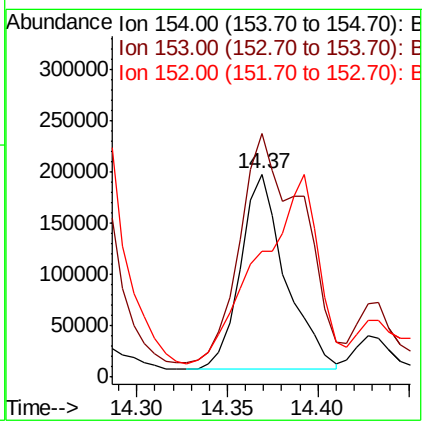


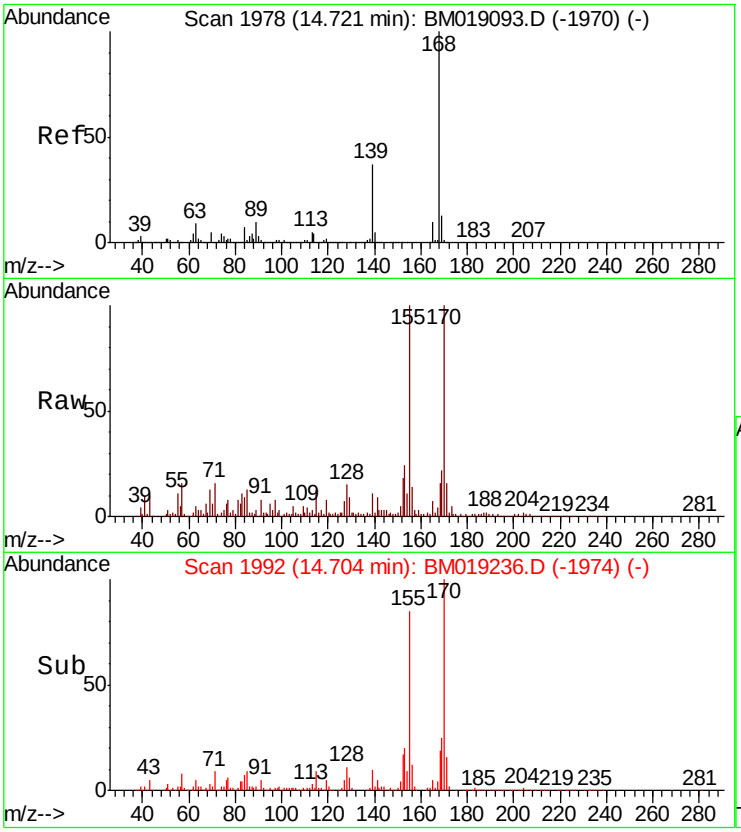




#52
Acenaphthene
Concen: 7.409 ng
RT: 14.37 min Scan# 1935
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:154 Resp: 330818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 120.1 | 90.9 | 136.3 |
| 152 | 61.8 | 42.3 | 63.5 |



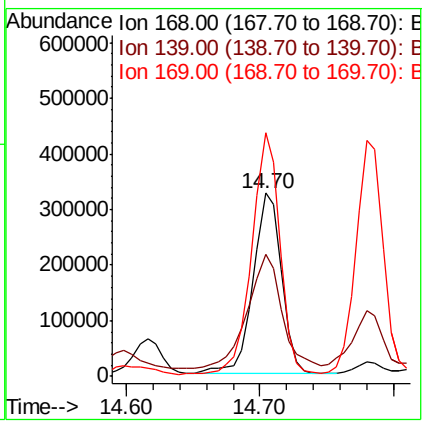


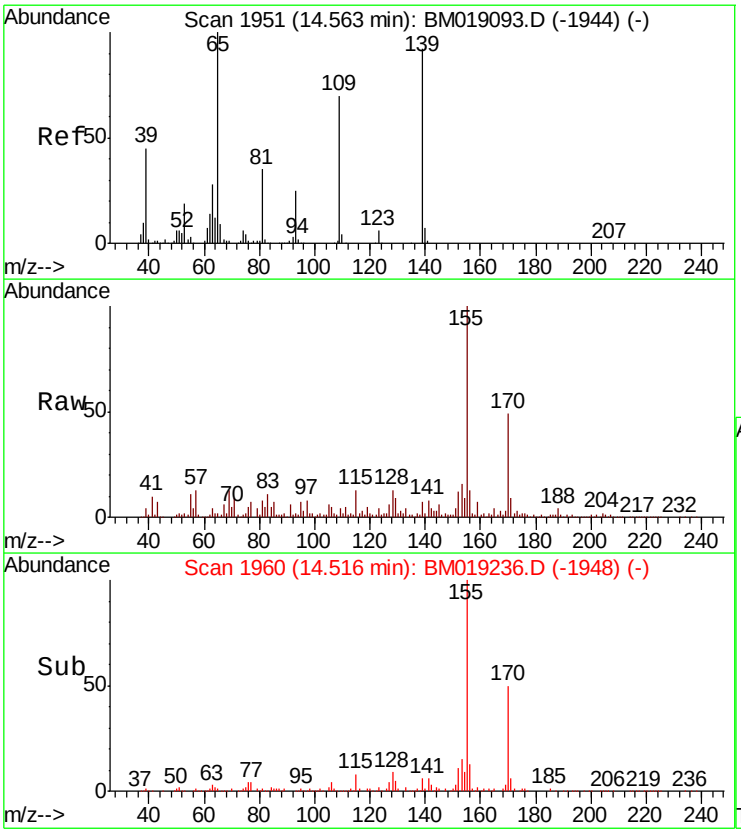

#55
Dibenzofuran
Concen: 6.629 ng
RT: 14.70 min Scan# 1992
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:168 Resp: 477363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 66.5 | 29.6 | 44.4# |
| 169 | 133.0 | 10.6 | 16.0# |

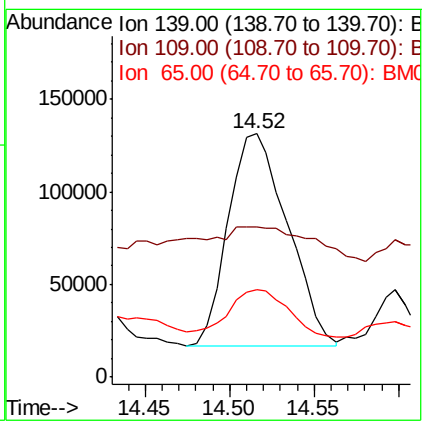


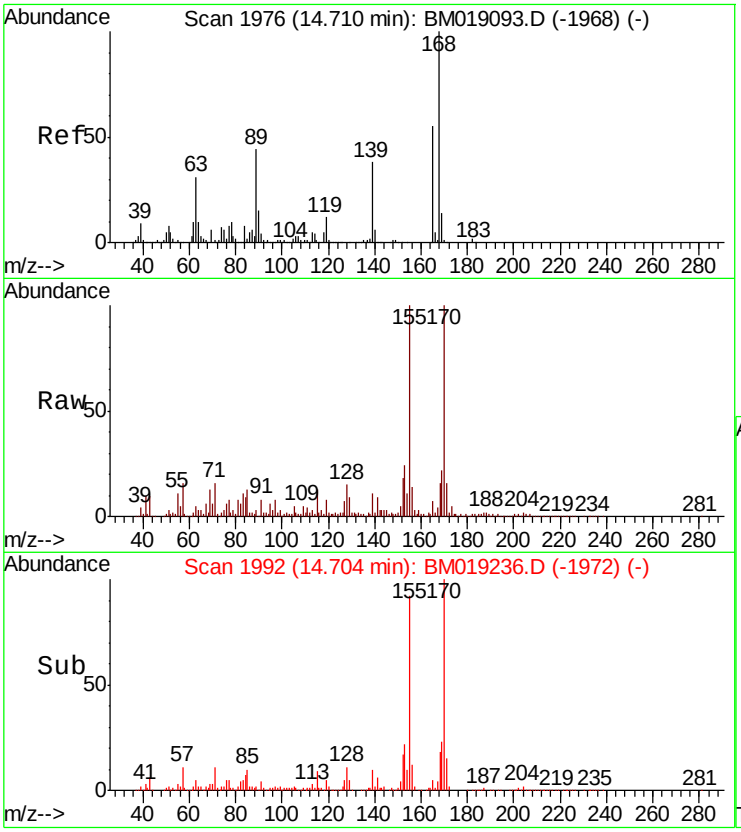




#56
4-Nitrophenol
Concen: 24.884 ng
RT: 14.52 min Scan# 1960
Delta R.T. -0.03 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:139 Resp: 280559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 61.7 | 52.6 | 92.6 |
| 65 | 35.9 | 84.8 | 124.8# |



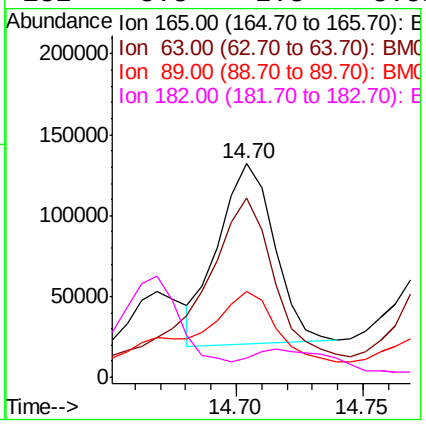


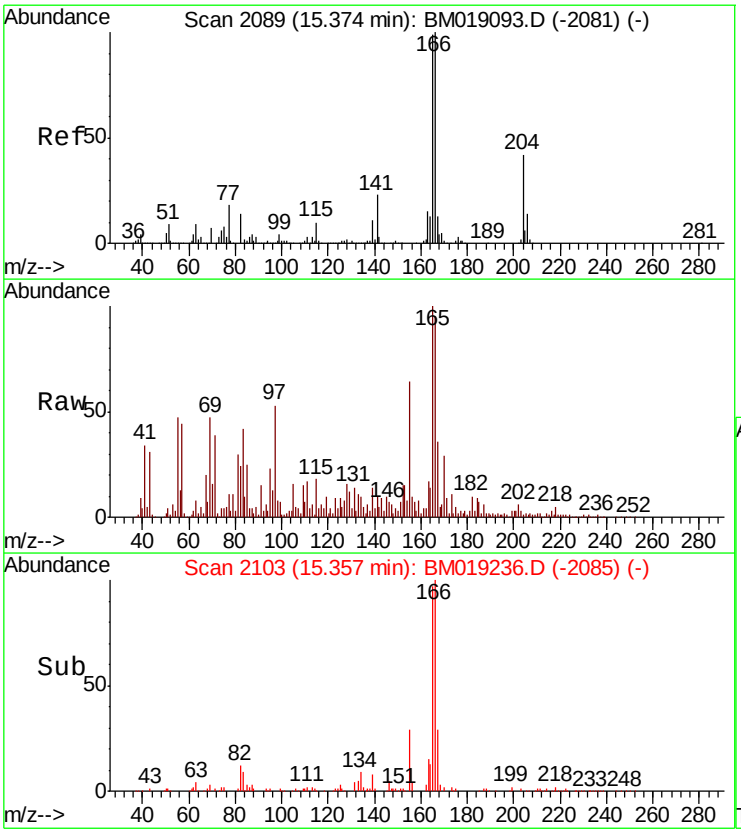

#57
2,4-Dinitrotoluene
Concen: 9.150 ng
RT: 14.70 min Scan# 1992
Delta R.T. 0.02 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:165 Resp: 173165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 83.8 | 44.6 | 66.8# |
| 89 | 40.2 | 65.0 | 97.6# |
| 182 | 8.8 | 2.3 | 3.5# |

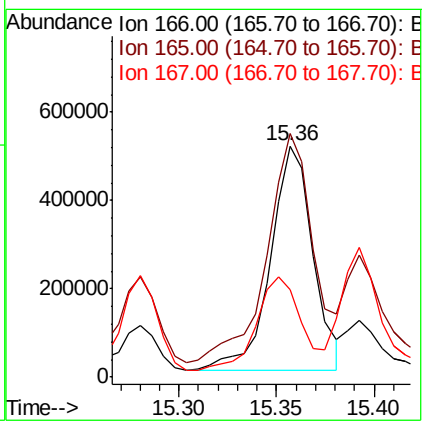


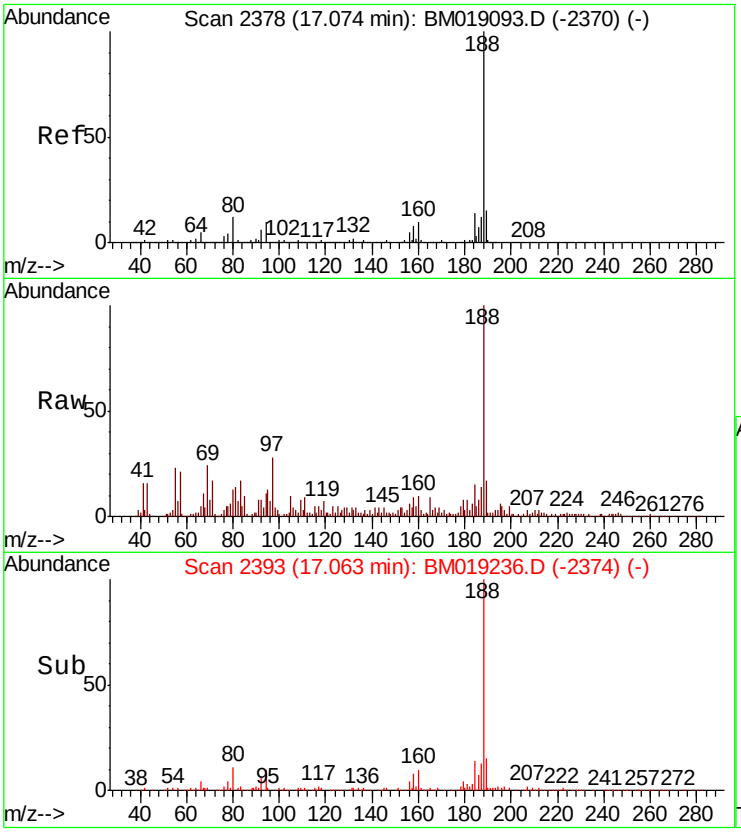




#58
Fluorene
Concen: 12.992 ng
RT: 15.36 min Scan# 2103
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:166 Resp: 771192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 105.5 | 78.4 | 117.6 |
| 167 | 37.8 | 10.6 | 16.0# |



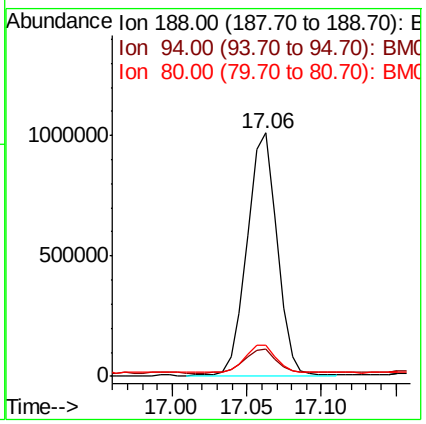


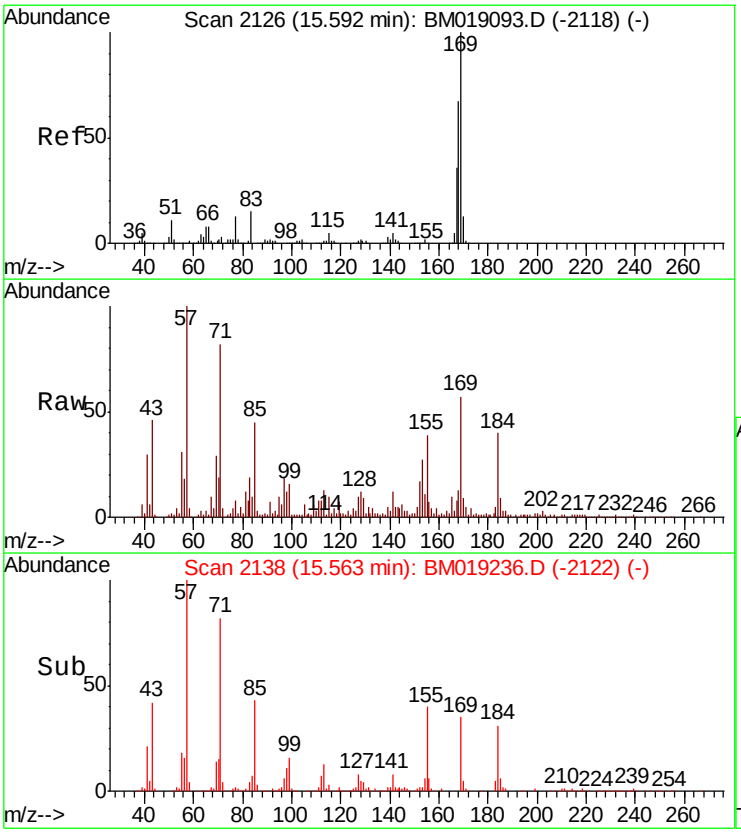

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.06 min Scan# 2393
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:188 Resp: 1389344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.1 | 8.3 | 12.5 |
| 80 | 12.8 | 10.2 | 15.2 |

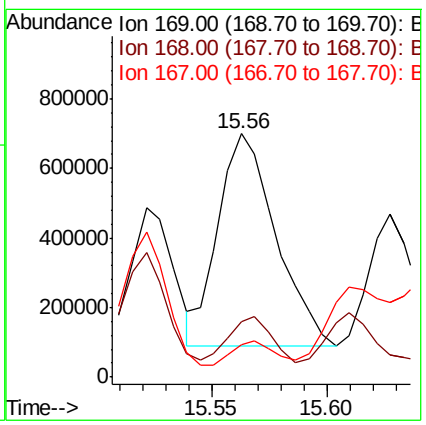


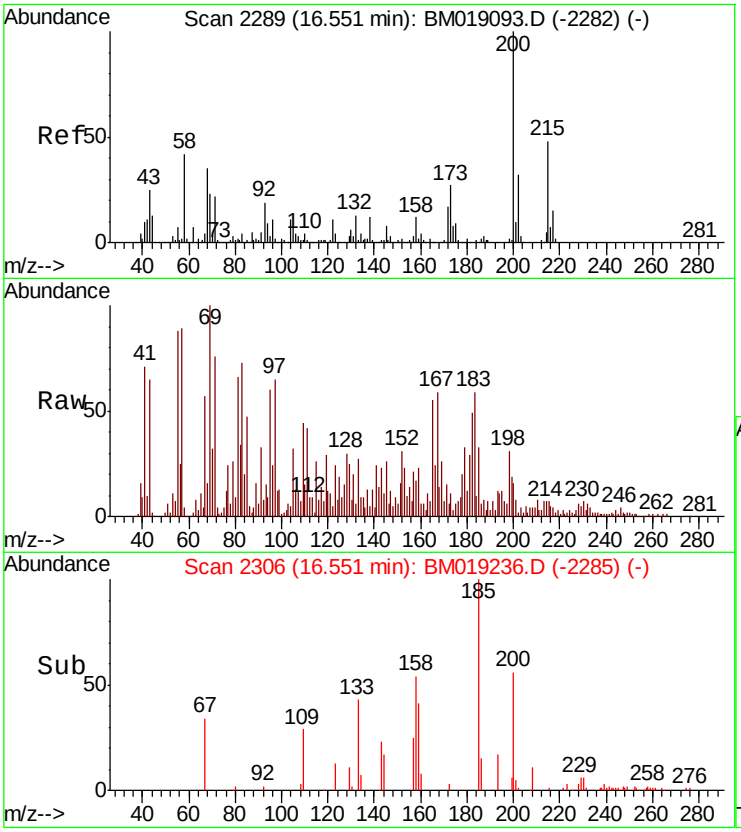




#66
n-Nitrosodiphenylamine
Concen: 23.933 ng
RT: 15.56 min Scan# 2138
Delta R.T. -0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:169 Resp: 1058592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 22.6 | 54.1 | 81.1# |
| 167 | 13.4 | 28.6 | 43.0# |



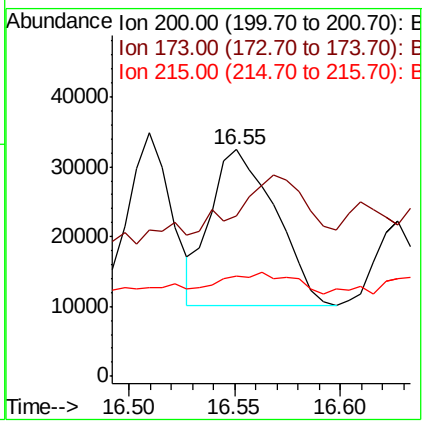


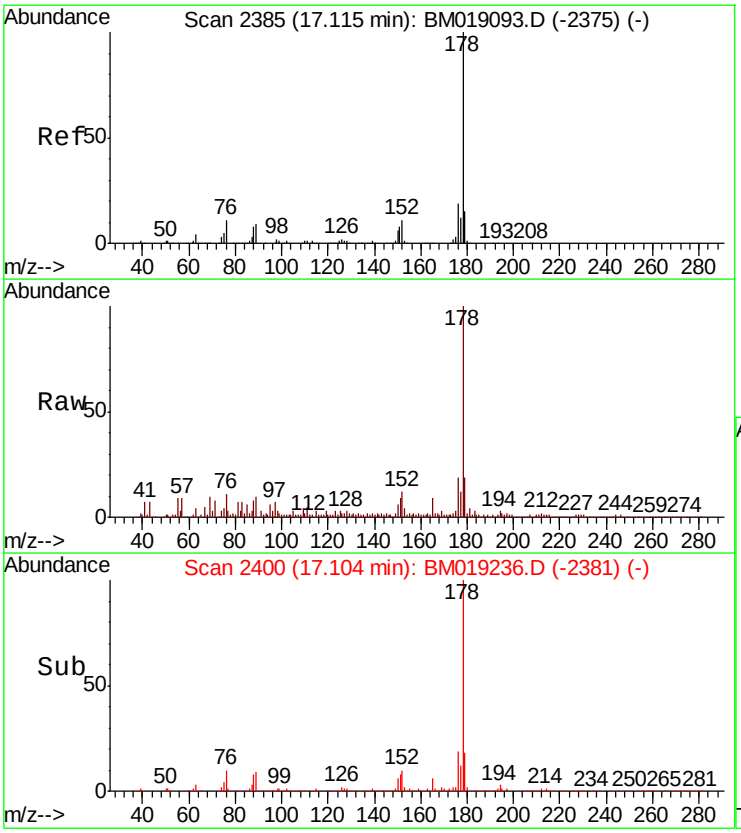

#69
Atrazine
Concen: 3.212 ng
RT: 16.55 min Scan# 2306
Delta R.T. 0.02 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:200 Resp: 47818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 70.8 | 7.8 | 47.8# |
| 215 | 44.0 | 26.9 | 66.9 |

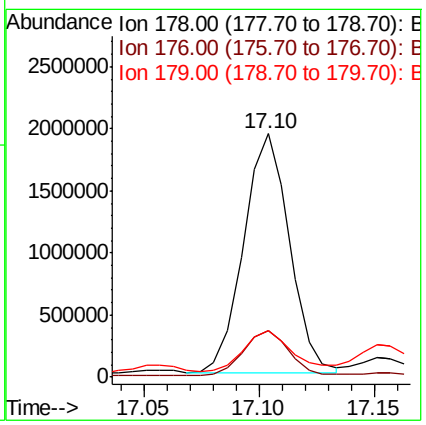


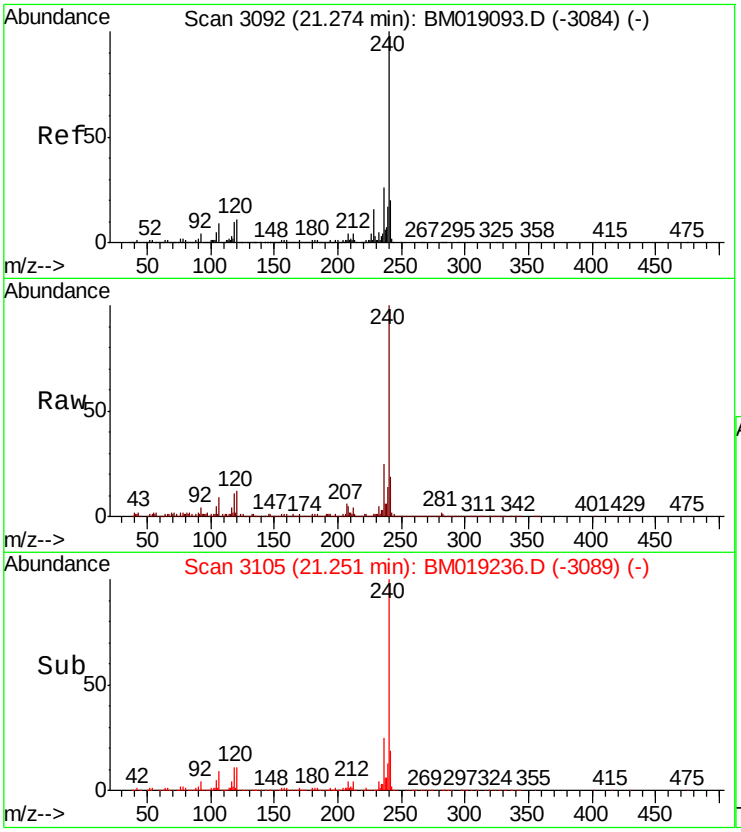




#71
Phenanthrene
Concen: 32.481 ng
RT: 17.10 min Scan# 2400
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:178 Resp: 2645080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.1 | 22.7 |
| 179 | 19.1 | 12.5 | 18.7# |



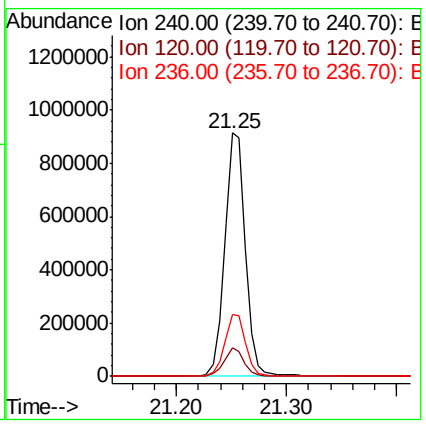


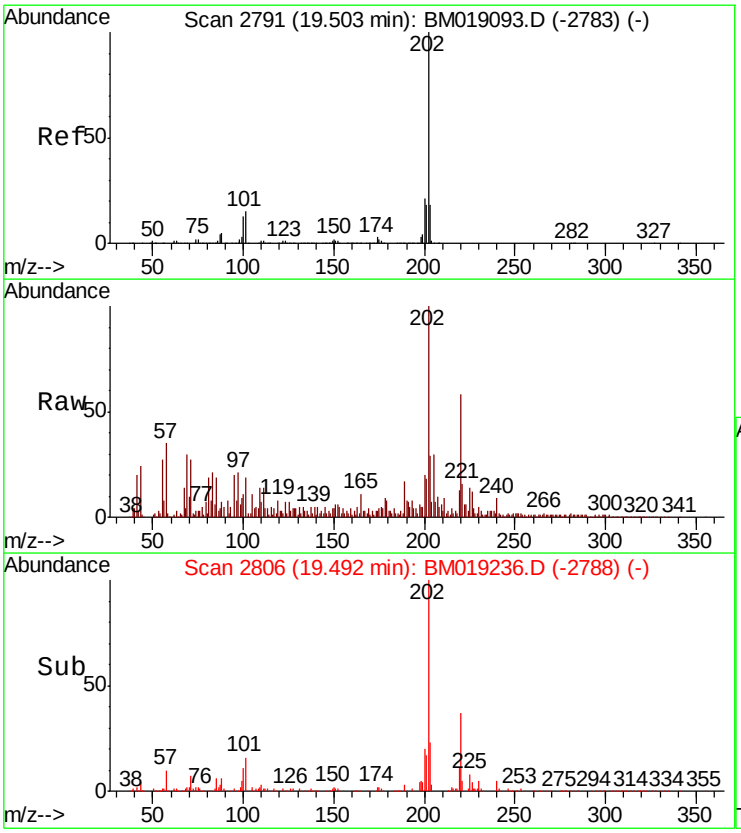

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.25 min Scan# 3105
Delta R.T. -0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:240 Resp: 1184242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.5 | 8.5 | 12.7 |
| 236 | 25.4 | 20.8 | 31.2 |

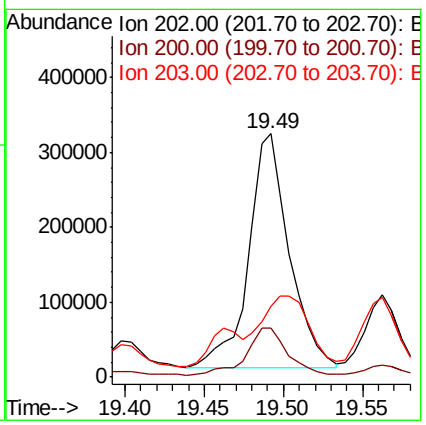


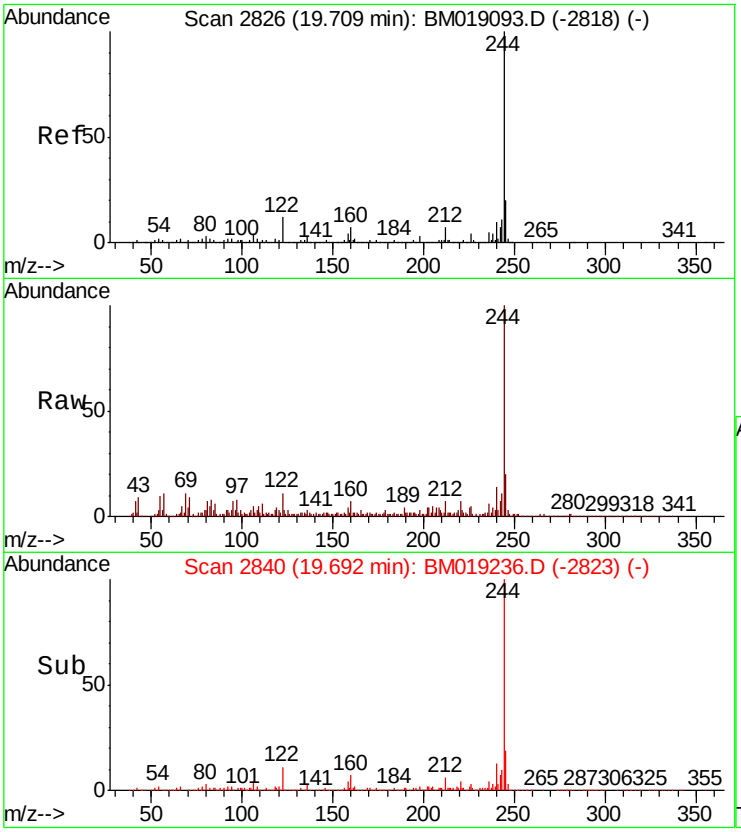




#78
Pyrene
Concen: 7.414 ng
RT: 19.49 min Scan# 2806
Delta R.T. 0.01 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:202 Resp: 555526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.9 | 17.0 | 25.6 |
| 203 | 29.3 | 14.1 | 21.1# |



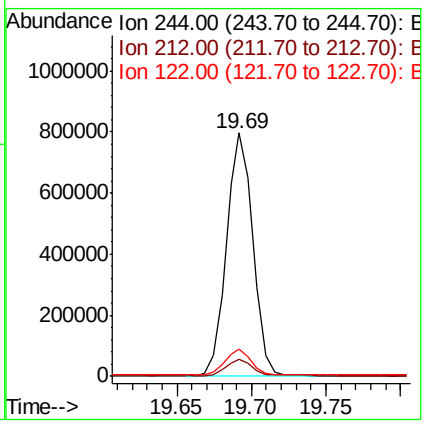


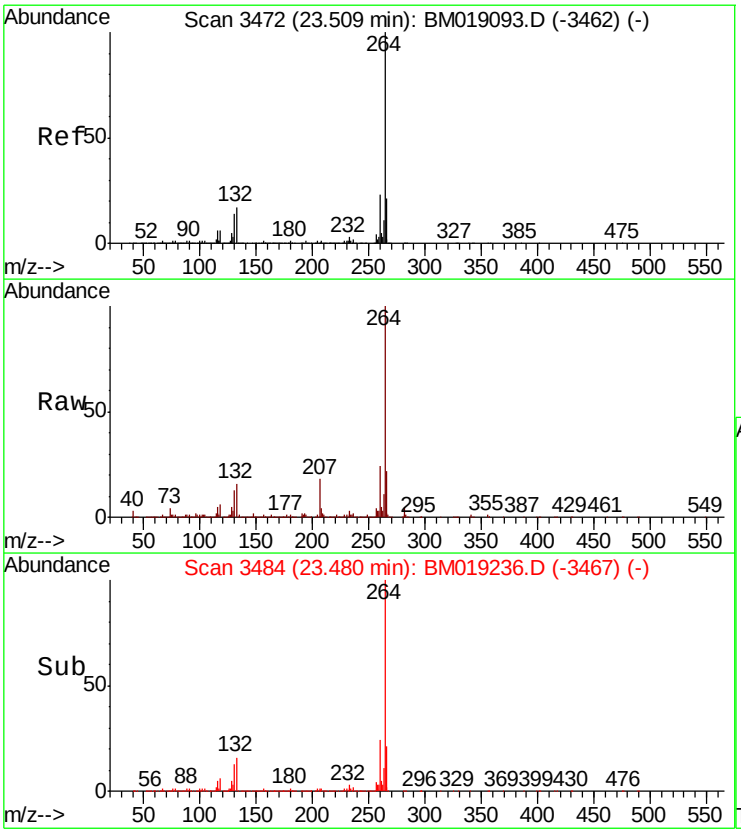

#79
Terphenyl-d14
Concen: 16.516 ng
RT: 19.69 min Scan# 2840
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

**Instrument :**
BNA_M
**ClientSampleId :**

Tgt Ion:244 Resp: 985212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 5.4 | 8.0 |
| 122 | 11.4 | 8.8 | 13.2 |




#87
Perylene-d12
Concen: 20.000 ng
RT: 23.48 min Scan# 3484
Delta R.T. 0.00 min
Lab File: BM019236.D
Acq: 19 Mar 2019 14:40

Tgt Ion:264 Resp: 1108116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 18.8 | 28.2 |
| 265 | 22.0 | 17.7 | 26.5 |