Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082919\

Quantitation Report (Not Reviewed)

Data File : BM022424.D
Acq On : 30 Aug 2019 01:02
Operator : HP/JU
Sample : K4539-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** S-4A-(1-3)

Quant Time: Aug 30 07:54:17 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 29 16:51:32 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.52 | 152 | 18501 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.30 | 136 | 67758 | 20.00 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.19 | 164 | 43753 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.95 | 188 | 95655 | 20.00 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.17 | 240 | 132622 | 20.00 | ng | | 0.00 |
| 87) Perylene-d12 | 23.36 | 264 | 158736 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.15 | 112 | 113721 | 107.90 | ng | | 0.00 |
| 7) Phenol-d6 | 6.72 | 99 | 150142 | 106.52 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.69 | 82 | 105696 | 68.32 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.70 | 330 | 78374 | 87.54 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.79 | 172 | 206109 | 53.37 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.60 | 244 | 406671 | 40.47 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 10) Phenol | 6.75 | 94 | 4805 | 3.393 | ng | # | 61 |
| 50) Dimethylphthalate | 13.66 | 163 | 27612 | 7.256 | ng | | 99 |
| 71) Phenanthrene | 16.99 | 178 | 19934 | 3.575 | ng | | 98 |
| 75) Fluoranthene | 19.03 | 202 | 52430 | 7.061 | ng | | 97 |
| 78) Pyrene | 19.39 | 202 | 55395 | 6.129 | ng | | 98 |
| 81) Benzo(a)anthracene | 21.15 | 228 | 36780 | 3.864 | ng | | 94 |
| 83) Chrysene | 21.20 | 228 | 34027 | 3.756 | ng | | 94 |
| 86) Indeno(1,2,3-cd)pyrene | 25.53 | 276 | 22532 | 2.472 | ng | # | 82 |
| 88) Benzo(b)fluoranthene | 22.70 | 252 | 44450 | 4.031 | ng | # | 93 |
| 89) Benzo(k)fluoranthene | 22.70 | 252 | 44070 | 4.029 | ng | # | 91 |
| 90) Benzo(a)pyrene | 23.26 | 252 | 32310 | 3.301 | ng | # | 91 |
| 92) Benzo(g,h,i)perylene | 26.20 | 276 | 27843 | 3.273 | ng | # | 91 |

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

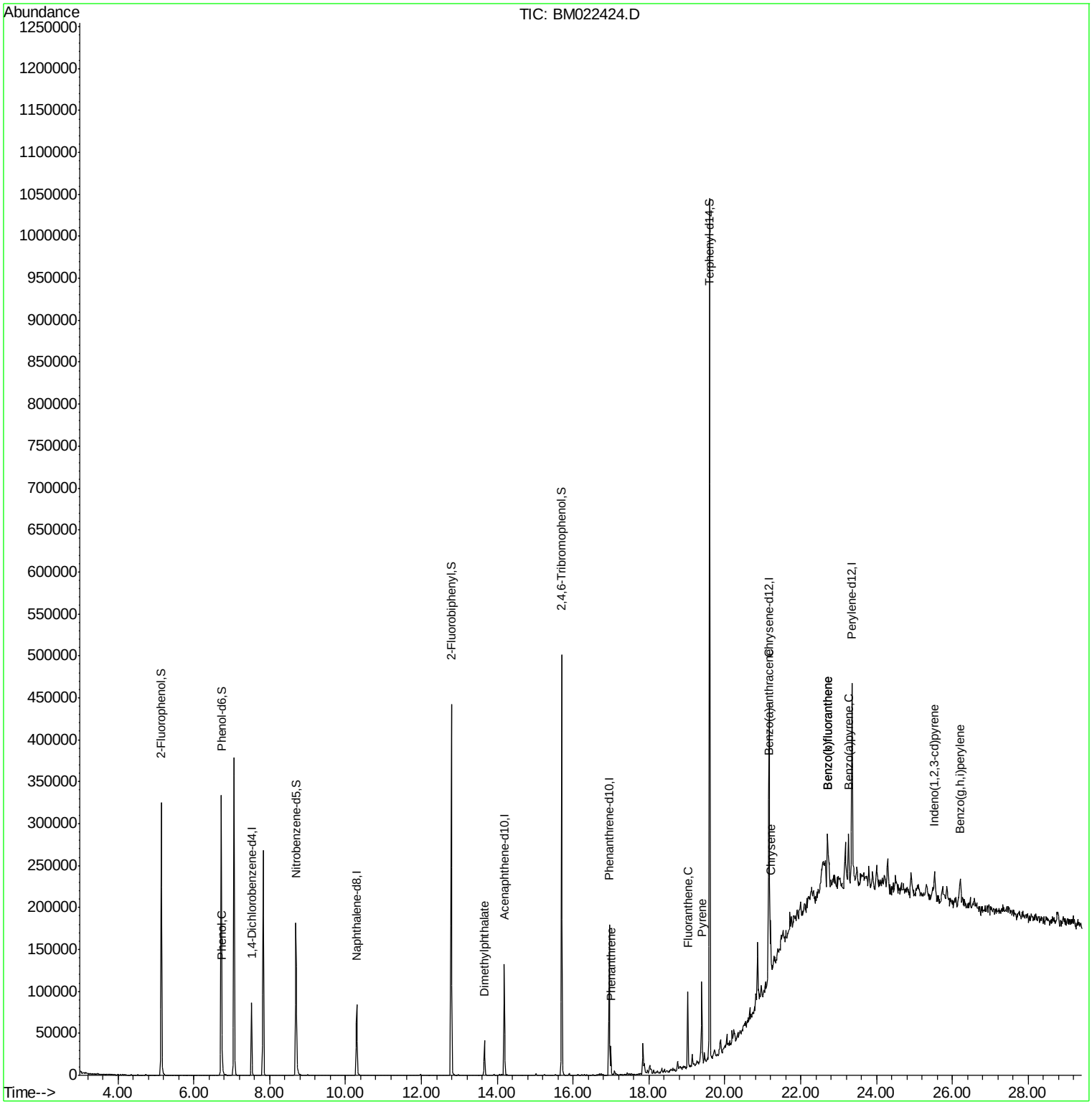
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082919\

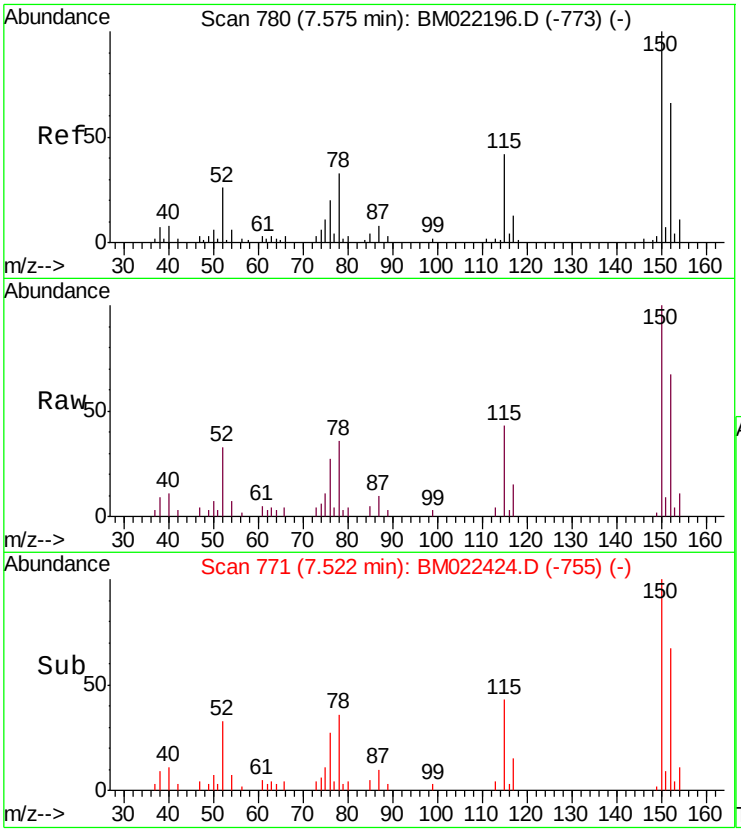
Quantitation Report (Not Reviewed)

Data File : BM022424.D
Acq On : 30 Aug 2019 01:02
Operator : HP/JU
Sample : K4539-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Quant Time: Aug 30 07:54:17 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 29 16:51:32 2019
Response via : Initial Calibration



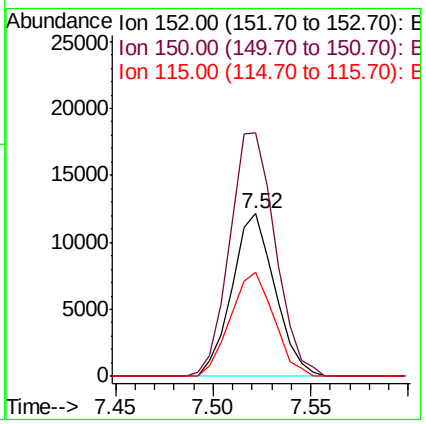


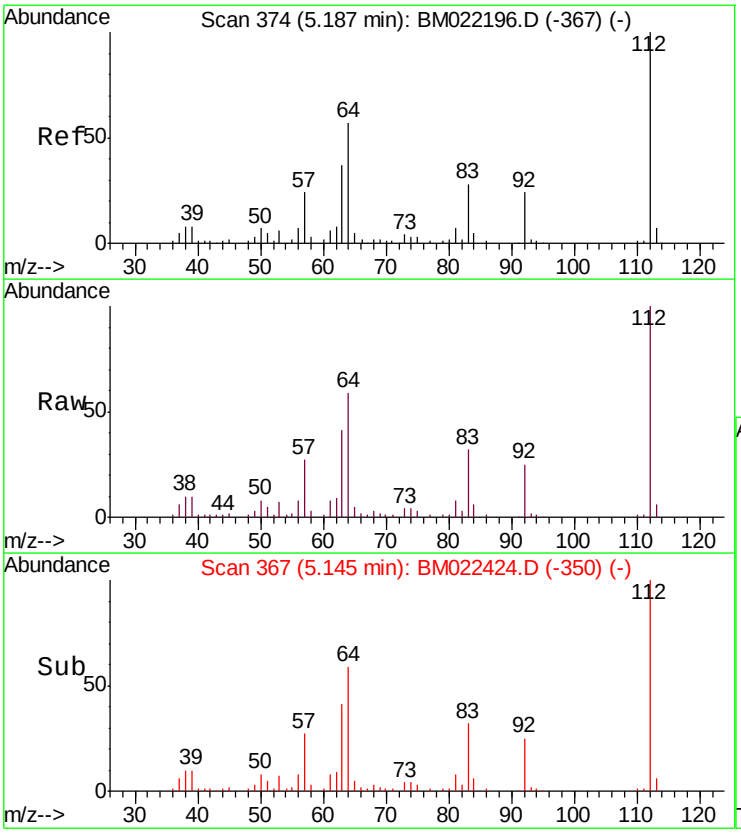

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 771
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:152 Resp: 18501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.8 | 125.4 | 188.0 |
| 115 | 64.2 | 50.3 | 75.5 |

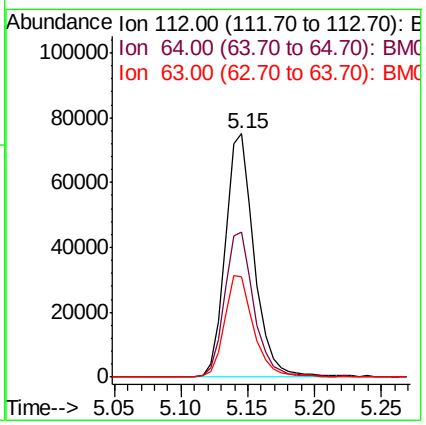


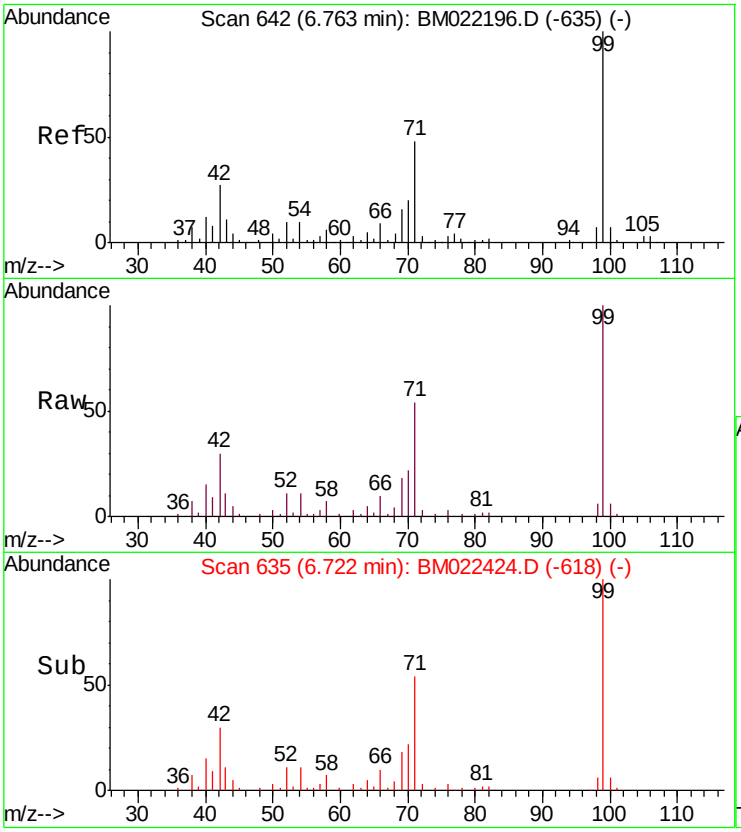




#5
2-Fluorophenol
Concen: 107.896 ng
RT: 5.15 min Scan# 367
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:112 Resp: 113721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.4 | 45.4 | 68.2 |
| 63 | 41.3 | 34.5 | 51.7 |



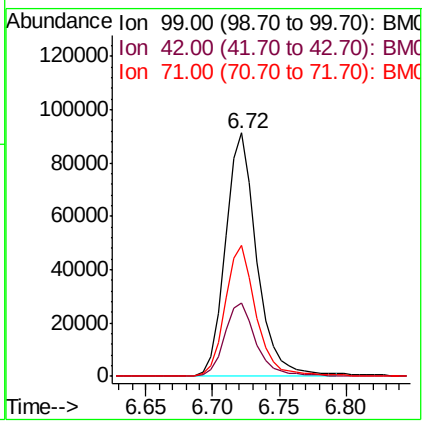


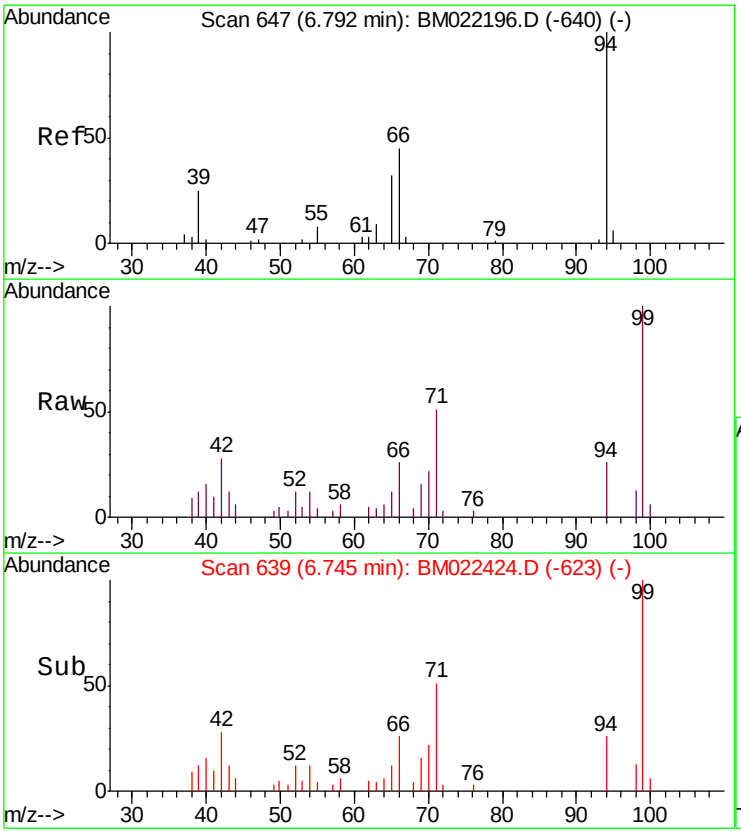

#7
Phenol-d6
Concen: 106.524 ng
RT: 6.72 min Scan# 635
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion: 99 Resp: 150142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 30.2 | 26.3 | 39.5 |
| 71 | 53.8 | 46.6 | 69.8 |

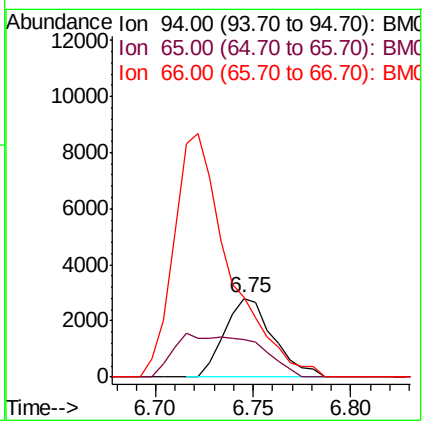


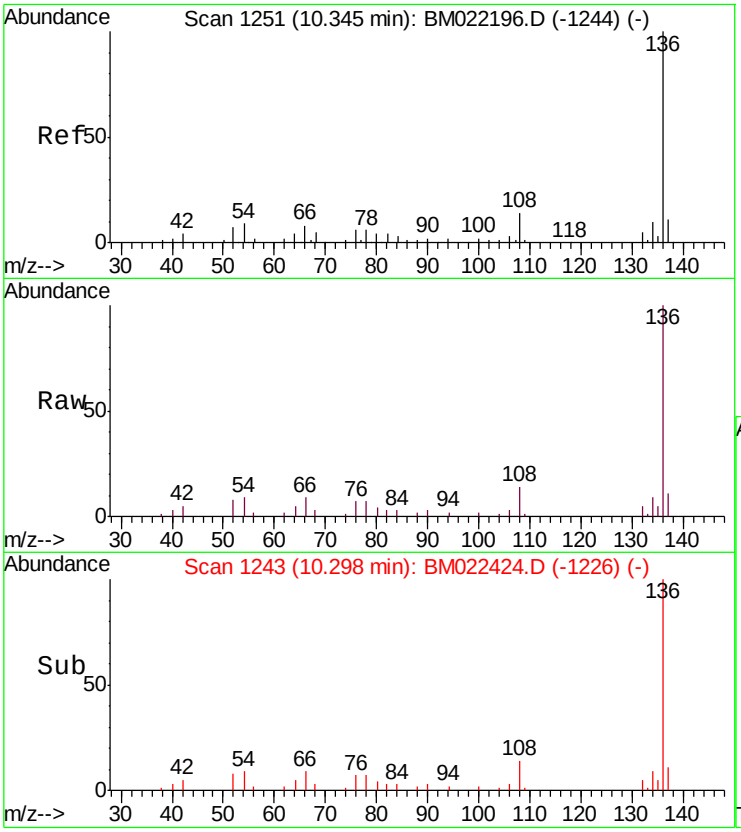




#10
Phenol
Concen: 3.393 ng
RT: 6.75 min Scan# 639
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion: 94 Resp: 4805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 47.1 | 17.7 | 57.7 |
| 66 | 100.7 | 39.6 | 79.6# |



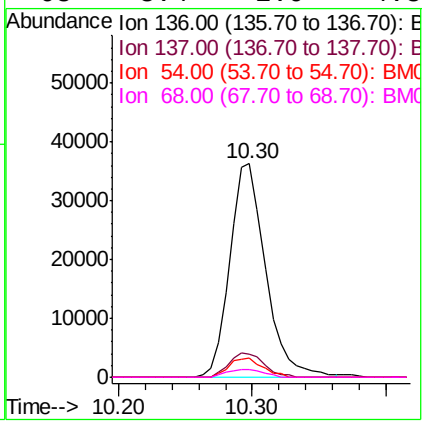


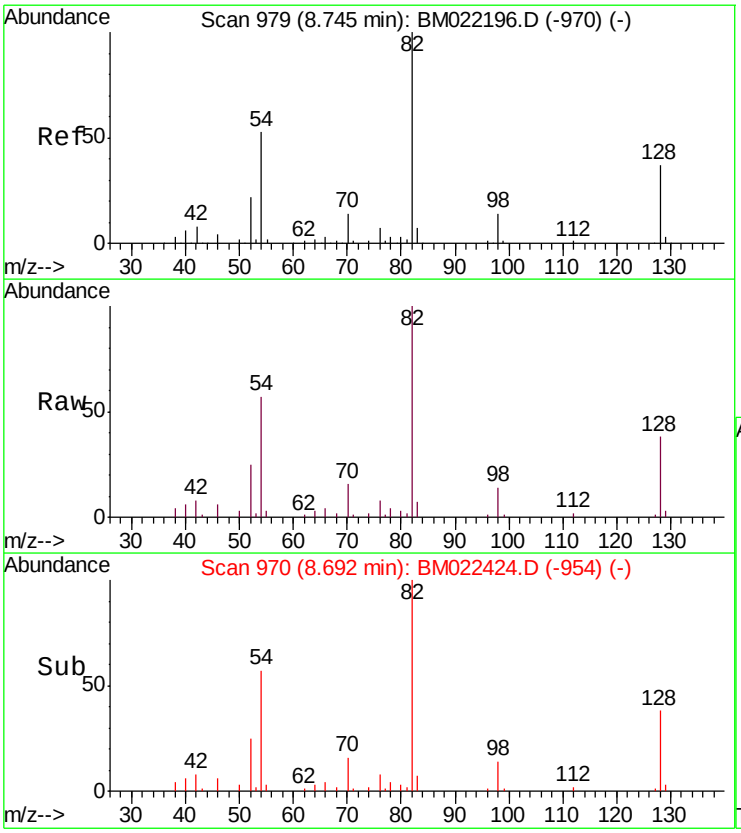

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.30 min Scan# 1243
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:136 Resp: 67758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.6 | 13.0 |
| 54 | 8.9 | 7.0 | 10.6 |
| 68 | 3.4 | 2.9 | 4.3 |

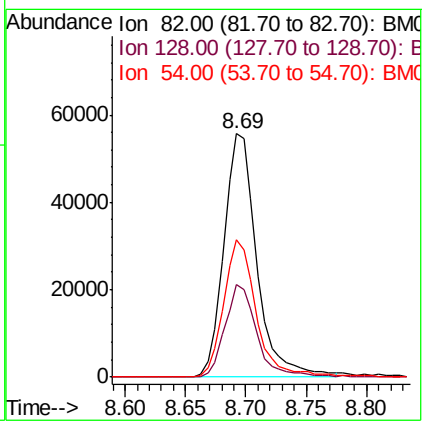


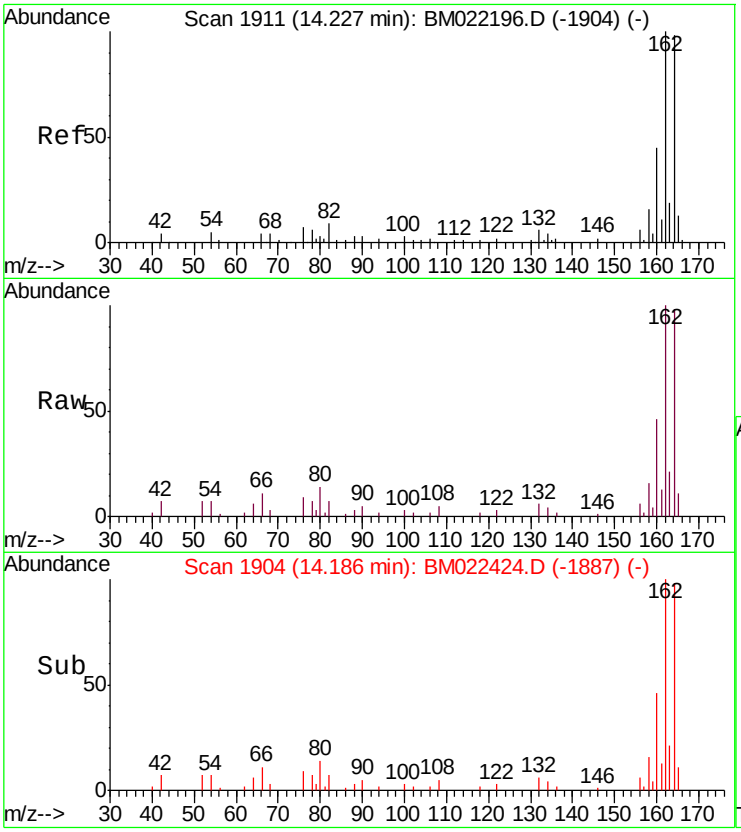




#23
Nitrobenzene-d5
Concen: 68.324 ng
RT: 8.69 min Scan# 970
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion: 82 Resp: 105696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.0 | 27.9 | 41.9 |
| 54 | 56.7 | 45.2 | 67.8 |



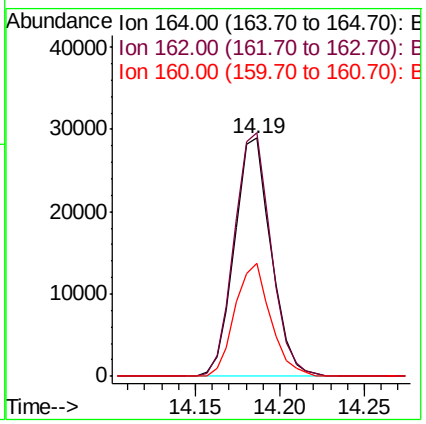


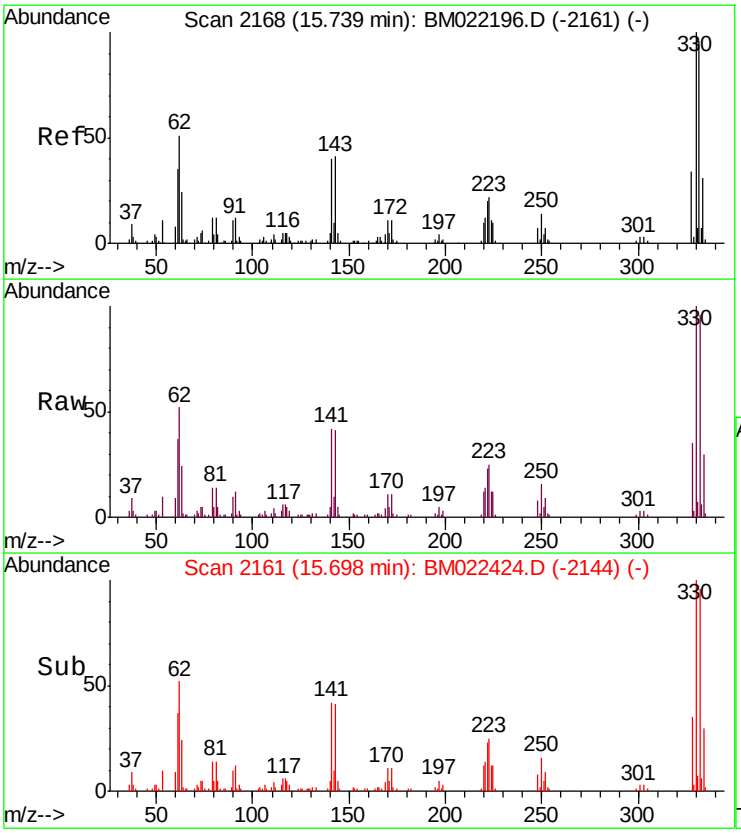

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.19 min Scan# 1904
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:164 Resp: 43753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 80.6 | 121.0 |
| 160 | 47.2 | 37.3 | 55.9 |

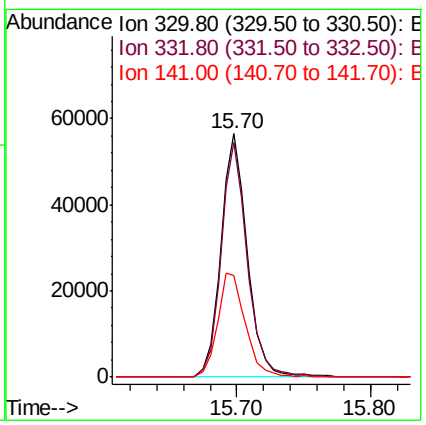


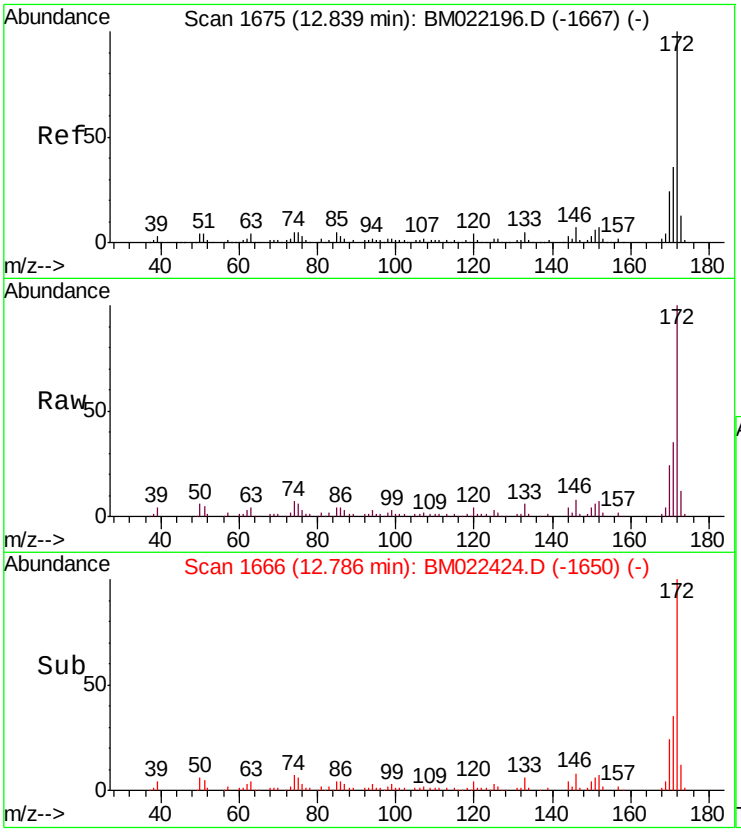




#42
2,4,6-Tribromophenol
Concen: 87.539 ng
RT: 15.70 min Scan# 2161
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:330 Resp: 78374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.5 | 77.8 | 116.8 |
| 141 | 45.1 | 35.6 | 53.4 |



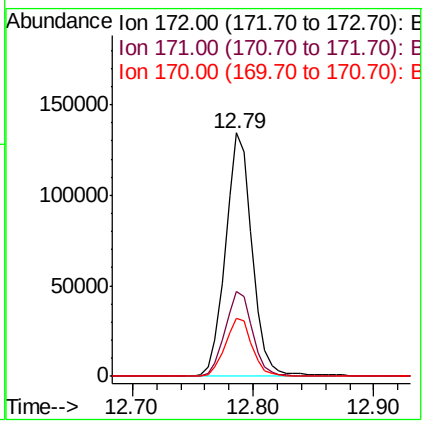


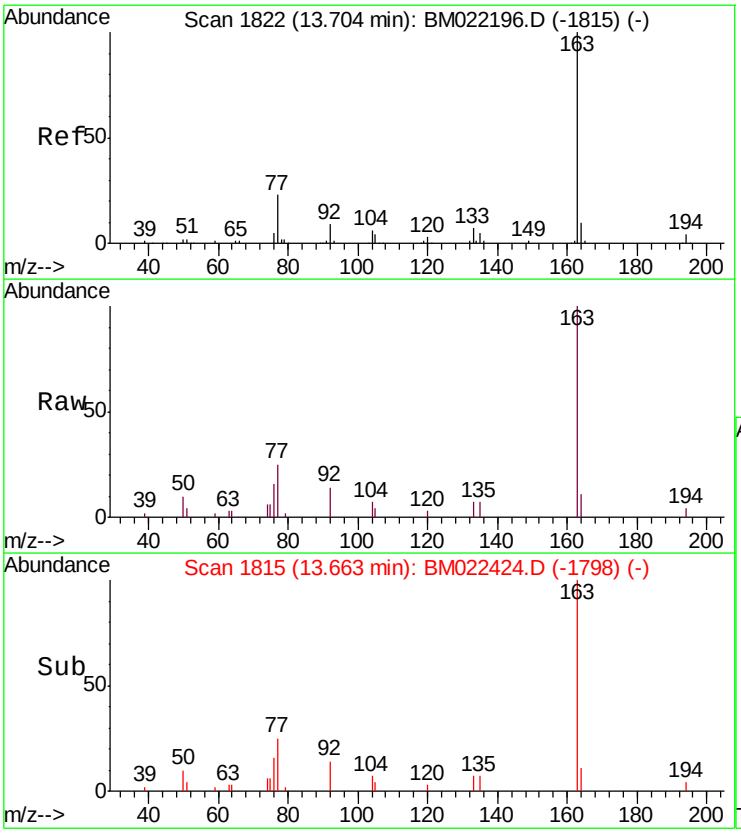

#45
2-Fluorobiphenyl
Concen: 53.365 ng
RT: 12.79 min Scan# 1666
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:172 Resp: 206109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 28.5 | 42.7 |
| 170 | 23.8 | 18.9 | 28.3 |

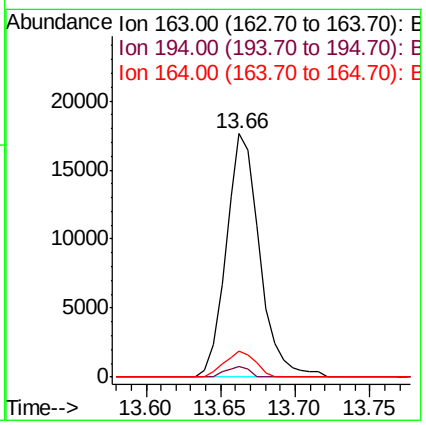


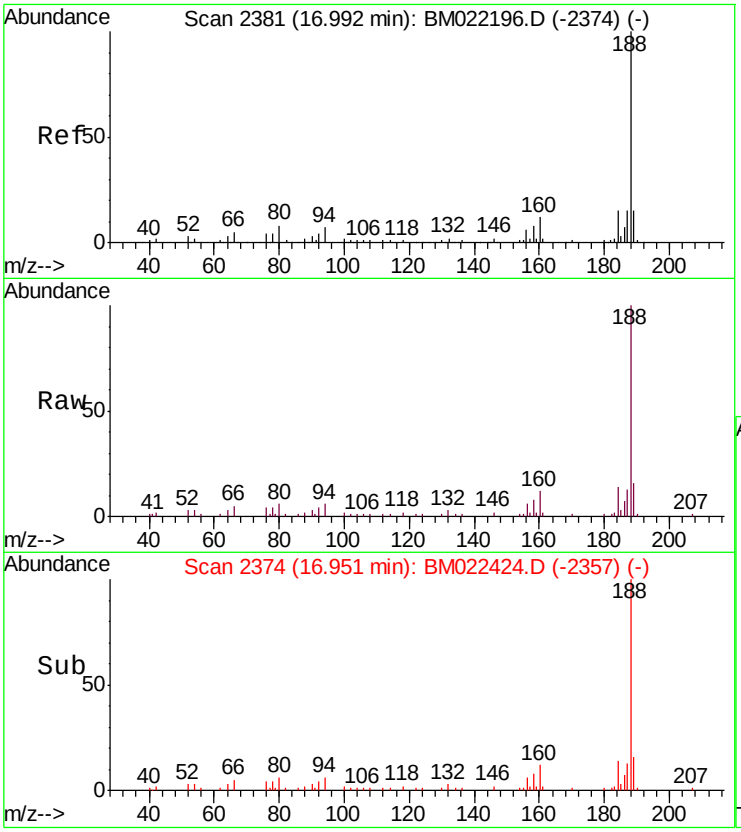




#50
Dimethylphthalate
Concen: 7.256 ng
RT: 13.66 min Scan# 1815
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:163 Resp: 27612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.2 | 3.4 | 5.2 |
| 164 | 10.7 | 8.2 | 12.2 |



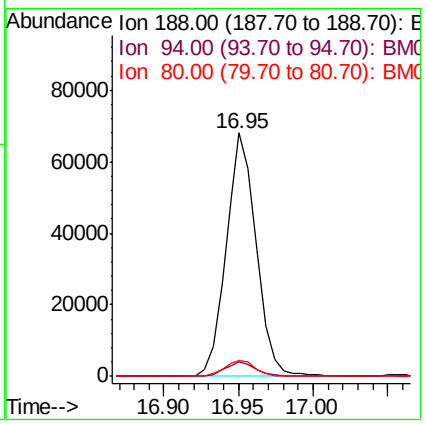


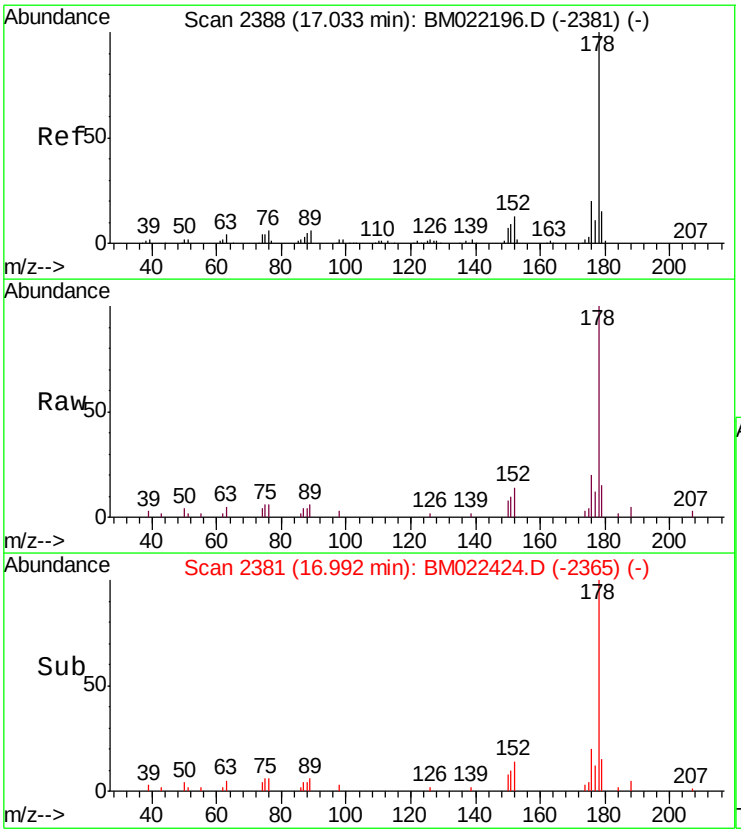

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.95 min Scan# 2374
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:188 Resp: 95655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 6.2 | 4.4 | 6.6 |
| 80 | 6.3 | 5.0 | 7.6 |

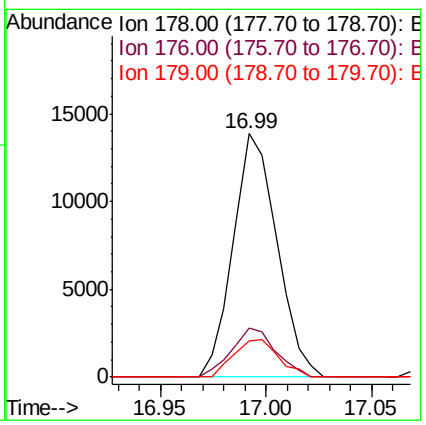


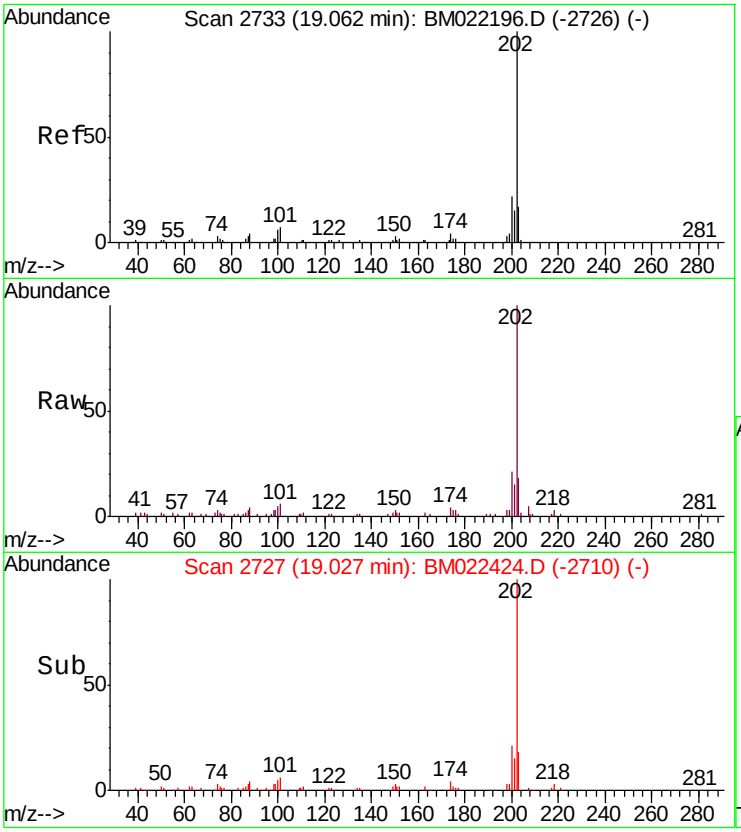




#71
Phenanthrene
Concen: 3.575 ng
RT: 16.99 min Scan# 2381
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:178 Resp: 19934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.4 | 23.2 |
| 179 | 14.7 | 12.3 | 18.5 |



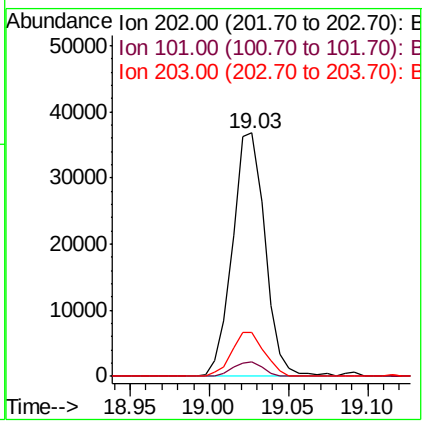


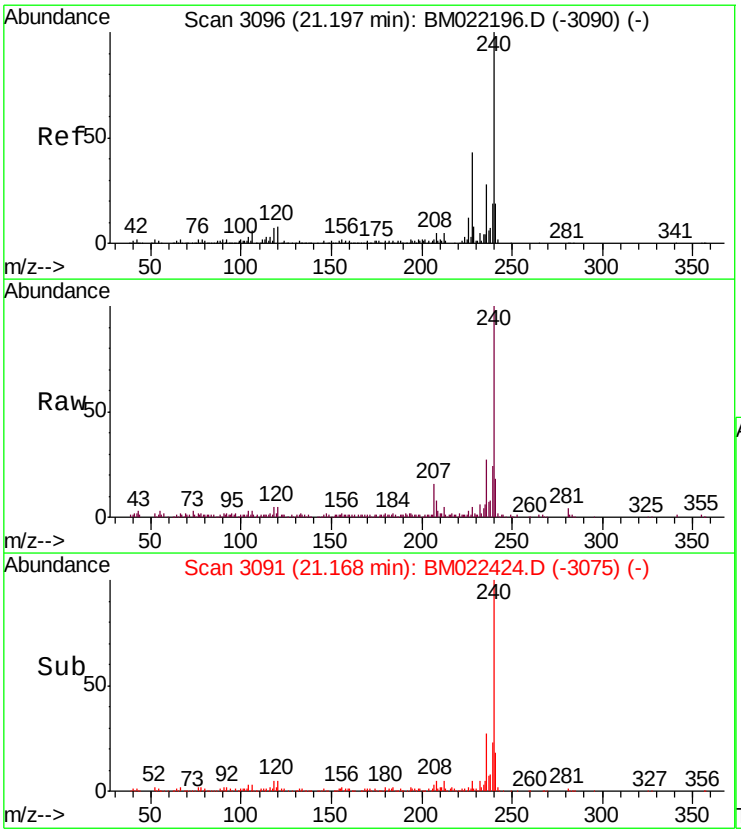

#75
Fluoranthene
Concen: 7.061 ng
RT: 19.03 min Scan# 2727
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:202 Resp: 52430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 6.2 | 0.0 | 25.1 |
| 203 | 18.2 | 0.0 | 37.1 |

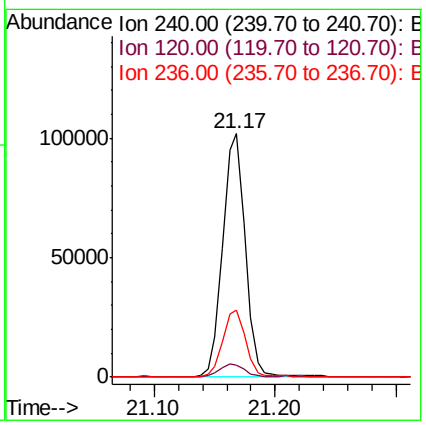


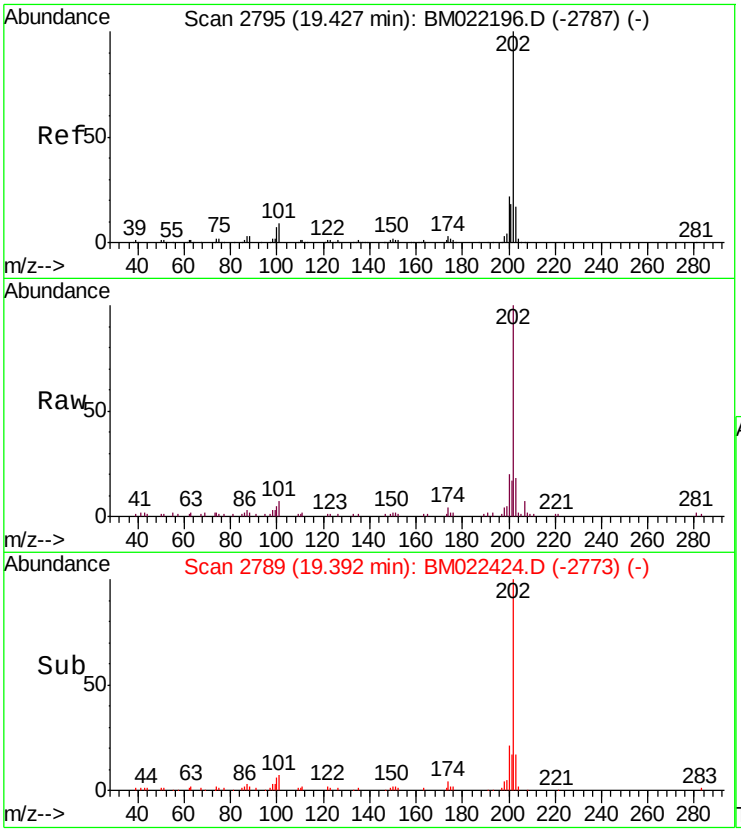




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.17 min Scan# 3091
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:240 Resp: 132622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 4.9 | 3.9 | 5.9 |
| 236 | 27.3 | 21.4 | 32.2 |



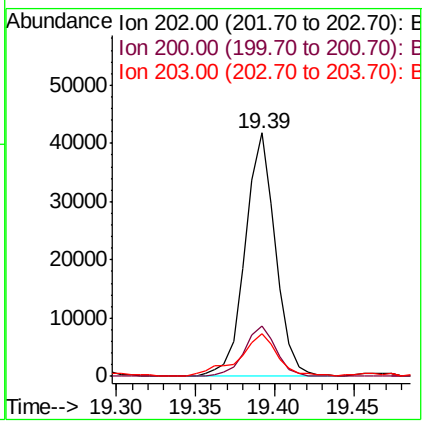


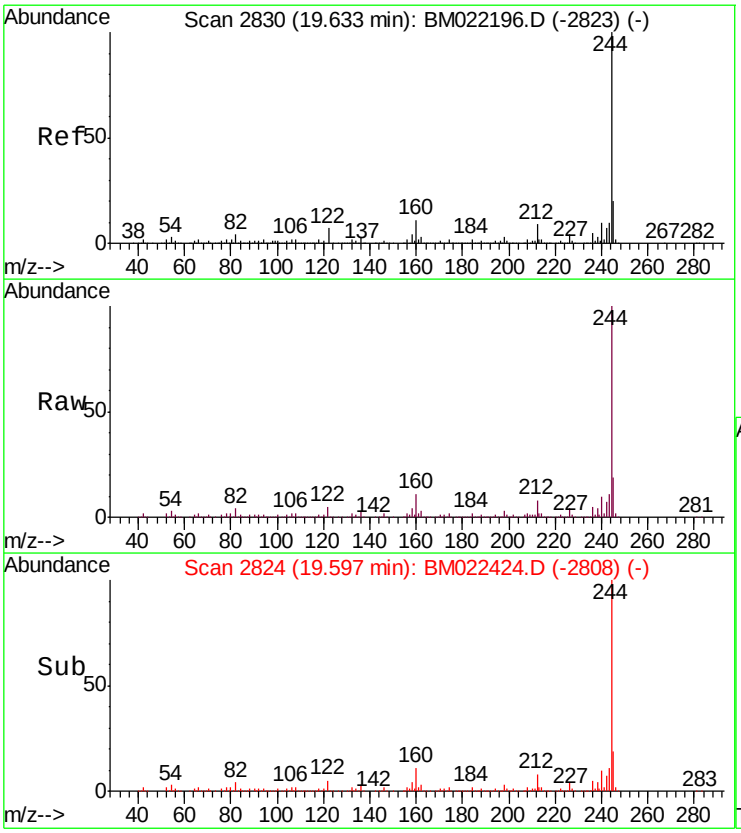

#78
Pyrene
Concen: 6.129 ng
RT: 19.39 min Scan# 2789
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:202 Resp: 55395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.5 | 17.7 | 26.5 |
| 203 | 17.7 | 13.8 | 20.8 |

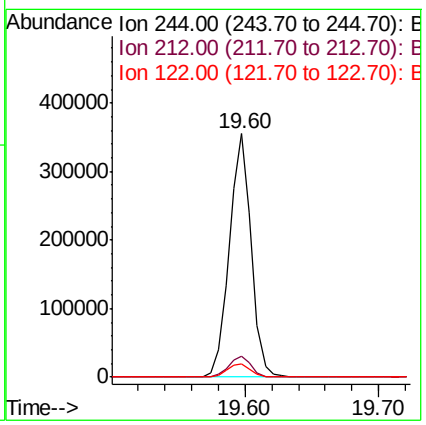


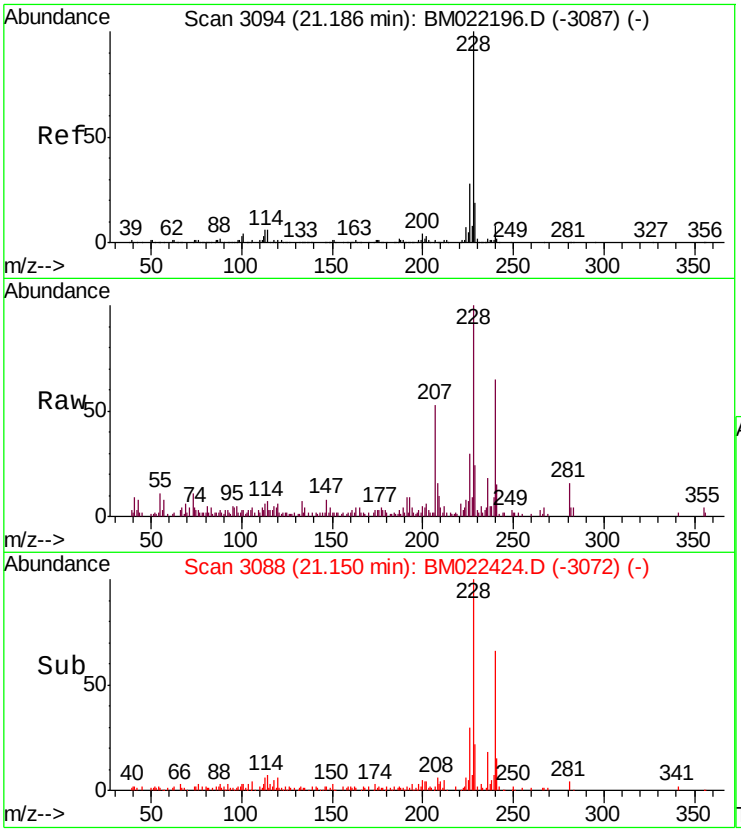




#79
Terphenyl-d14
Concen: 40.469 ng
RT: 19.60 min Scan# 2824
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:244 Resp: 406671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.4 | 7.0 | 10.4 |
| 122 | 5.4 | 3.9 | 5.9 |



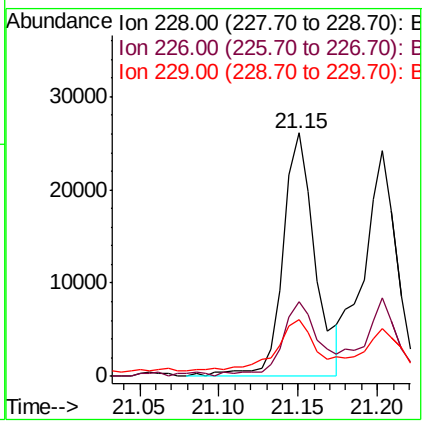


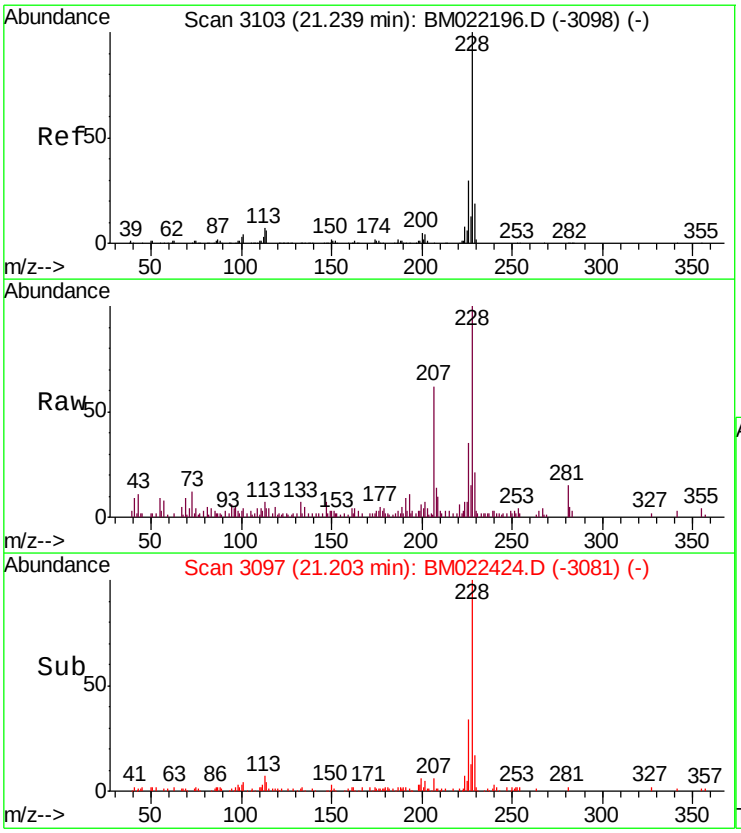

#81
Benzo(a)anthracene
Concen: 3.864 ng
RT: 21.15 min Scan# 3088
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:228 Resp: 36780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 22.6 | 34.0 |
| 229 | 23.5 | 15.9 | 23.9 |

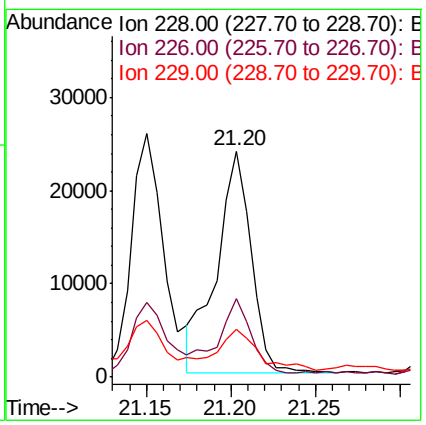


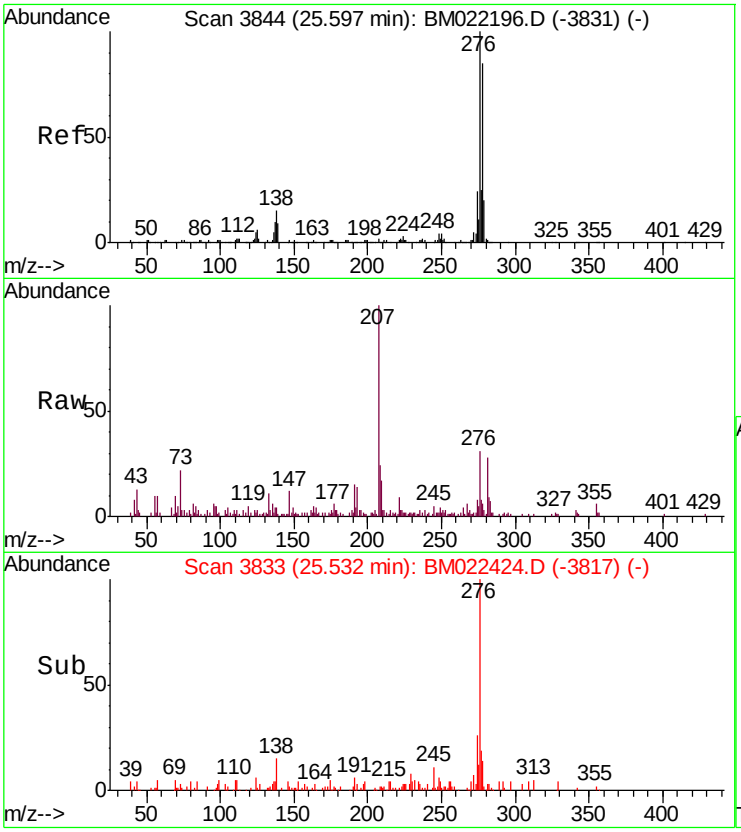




#83
Chrysene
Concen: 3.756 ng
RT: 21.20 min Scan# 3097
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:228 Resp: 34027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.9 | 24.5 | 36.7 |
| 229 | 20.9 | 15.7 | 23.5 |



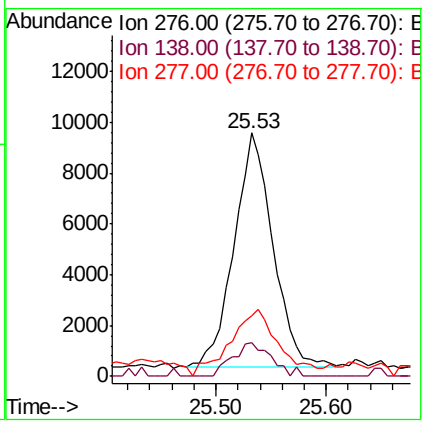


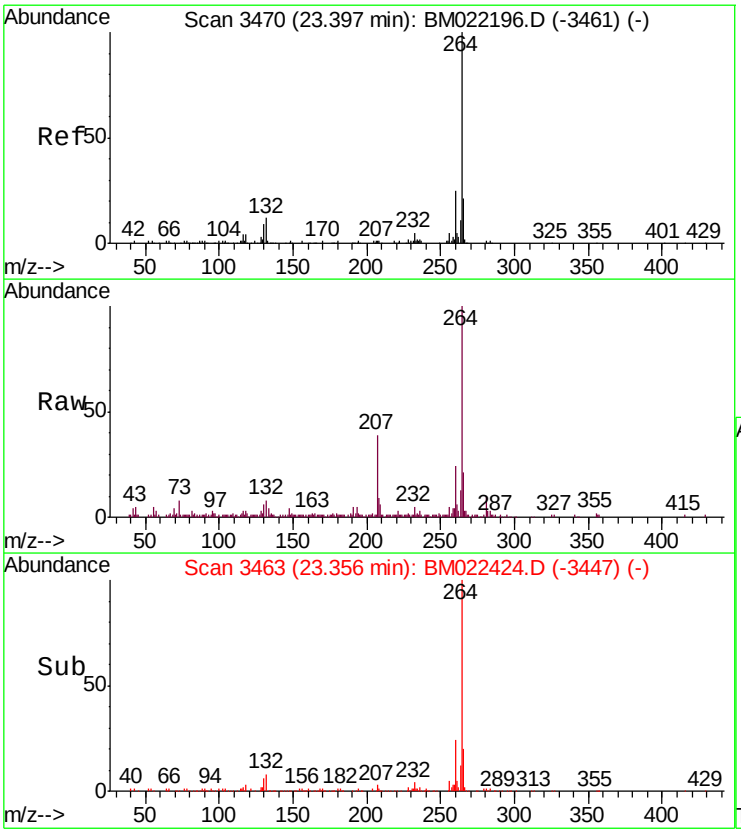

#86
Indeno(1,2,3-cd)pyrene
Concen: 2.472 ng
RT: 25.53 min Scan# 3833
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:276 Resp: 22532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 14.5 | 9.1 | 13.7# |
| 277 | 36.4 | 20.0 | 30.0# |

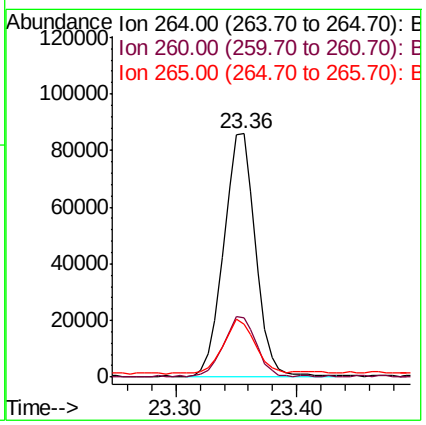


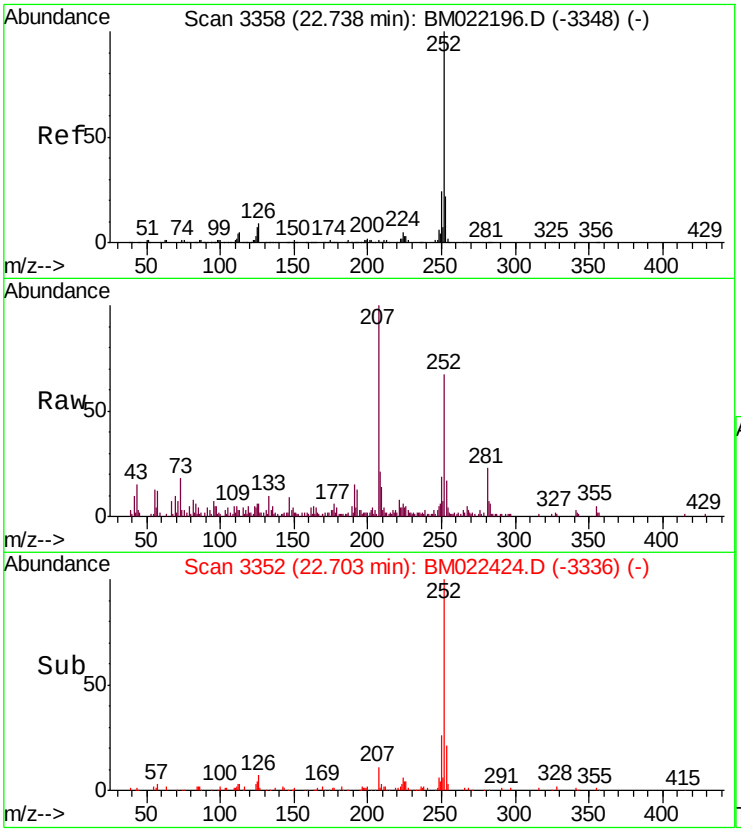




#87
Perylene-d12
Concen: 20.000 ng
RT: 23.36 min Scan# 3463
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:264 Resp: 158736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.2 | 20.2 | 30.2 |
| 265 | 21.5 | 18.2 | 27.2 |



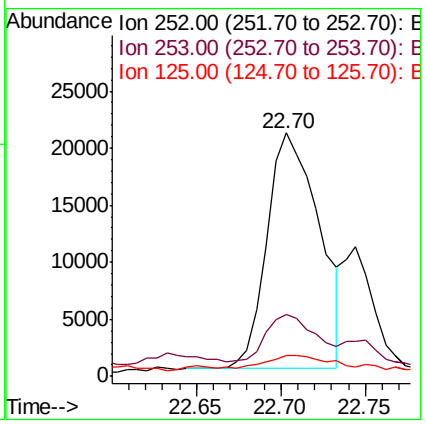


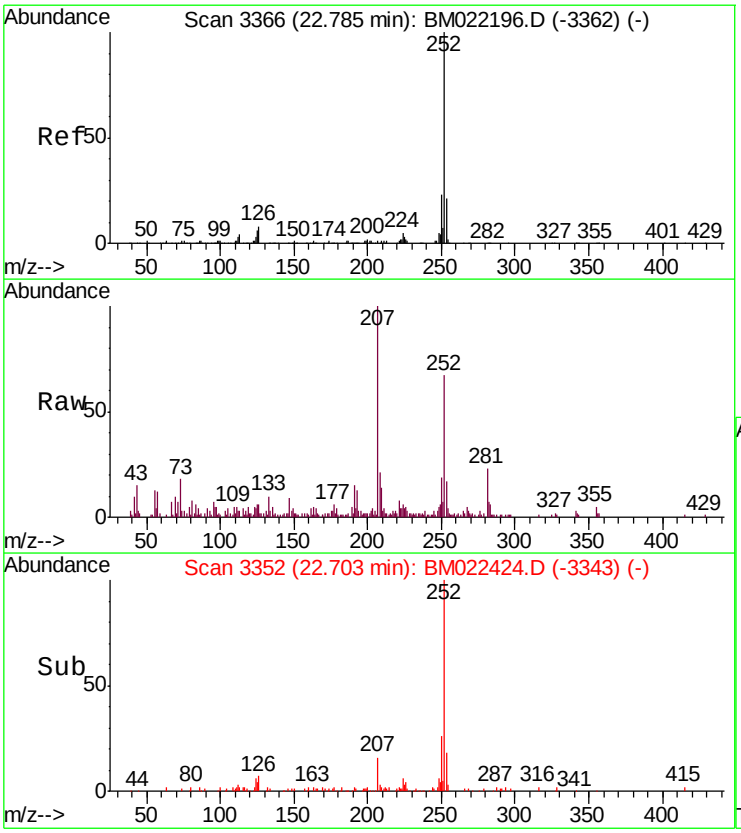

#88
Benzo(b)fluoranthene
Concen: 4.031 ng
RT: 22.70 min Scan# 3352
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:252 Resp: 44450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 17.9 | 26.9 |
| 125 | 8.4 | 3.5 | 5.3# |

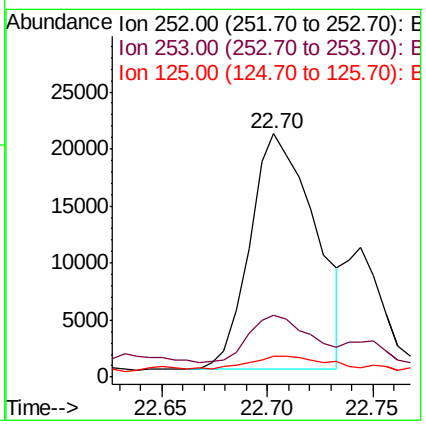


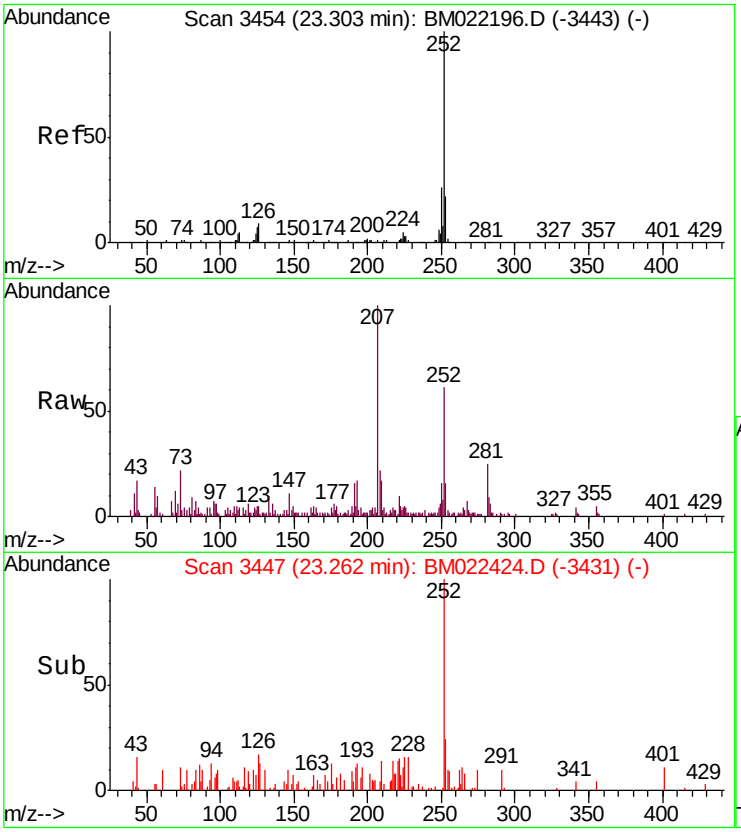




#89
Benzo(k)fluoranthene
Concen: 4.029 ng
RT: 22.70 min Scan# 3352
Delta R.T. -0.05 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:252 Resp: 44070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 17.0 | 25.4 |
| 125 | 8.4 | 3.7 | 5.5# |



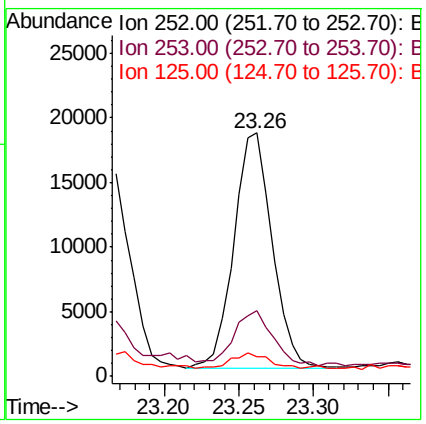


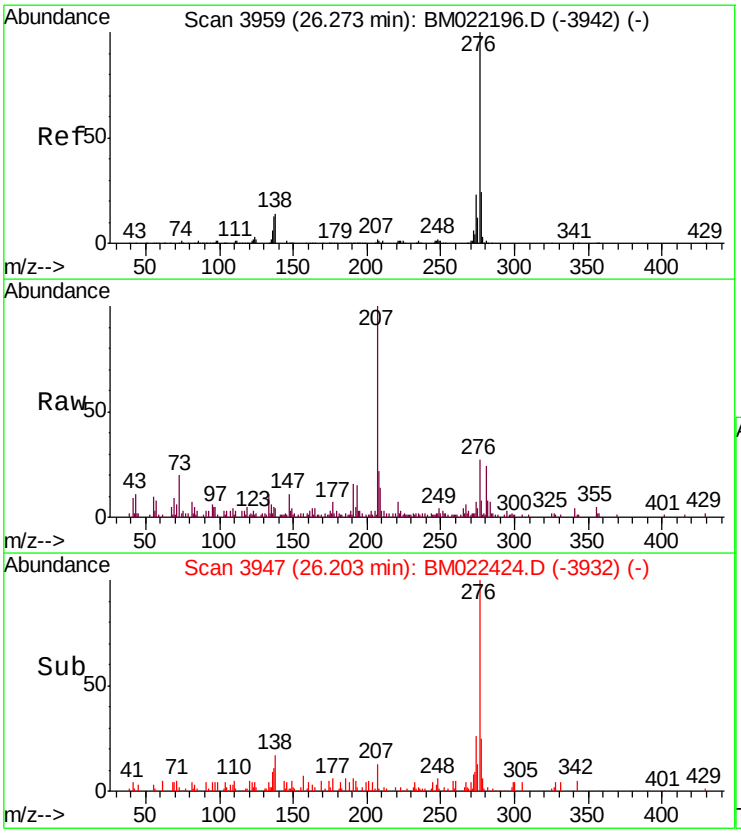

#90
Benzo(a)pyrene
Concen: 3.301 ng
RT: 23.26 min Scan# 3447
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

**Instrument :**
BNA_M
**ClientSampleId :**
S-4A-(1-3)

Tgt Ion:252 Resp: 32310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.8 | 18.2 | 27.2 |
| 125 | 8.0 | 3.8 | 5.8# |




#92
Benzo(g,h,i)perylene
Concen: 3.273 ng
RT: 26.20 min Scan# 3947
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:276 Resp: 27843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.6 | 19.4 | 29.0 |
| 138 | 16.4 | 8.8 | 13.2# |