Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110520\
Data File : BM027715.D
Acq On : 05 Nov 2020 13:00
Operator : JU/CG
Sample : L4485-02
Misc : SFAM-SIM-MDL-S-02
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** MDL-SOIL-02

Quant Time: Nov 05 13:57:26 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM110520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 05 04:58:48 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.40 | 152 | 359 | 0.40 | ng/ul | 0.00 |
| 4) Naphthalene-d8 | 11.24 | 136 | 1226 | 0.40 | ng/ul | 0.00 |
| 9) Acenaphthene-d10 | 15.01 | 164 | 778 | 0.40 | ng/ul | 0.00 |
| 13) Phenanthrene-d10 | 17.72 | 188 | 1735 | 0.40 | ng/ul | 0.00 |
| 19) Chrysene-d12 | 21.82 | 240 | 1456 | 0.40 | ng/ul | 0.00 |
| 23) Perylene-d12 | 24.27 | 264 | 1242 | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.54 | 96 | 195 | 0.53 | ng/ul | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 12.80 | 152 | 600 | 0.29 | ng/ul | 0.00 |
| 17) Fluoranthene-d10 | 19.71 | 212 | 1312 | 0.28 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.58 | 88 | 35 | 0.088 | ng/ul# | 89 |
| 5) Naphthalene | 11.29 | 128 | 206 | 0.059 | ng/ul# | 46 |
| 7) 2-Methylnaphthalene | 12.87 | 142 | 144 | 0.060 | ng/ul | 100 |
| 8) 1-Methylnaphthalene | 13.09 | 142 | 138 | 0.061 | ng/ul | 99 |
| 10) Acenaphthylene | 14.74 | 152 | 198 | 0.057 | ng/ul# | 60 |
| 11) Acenaphthene | 15.07 | 153 | 151 | 0.057 | ng/ul# | 90 |
| 12) Fluorene | 16.04 | 166 | 177 | 0.057 | ng/ul# | 89 |
| 14) Pentachlorophenol | 17.36 | 266 | 37 | 0.065 | ng/ul | 93 |
| 15) Phenanthrene | 17.76 | 178 | 281 | 0.055 | ng/ul# | 70 |
| 16) Anthracene | 17.85 | 178 | 280 | 0.056 | ng/ul# | 71 |
| 18) Fluoranthene | 19.74 | 202 | 360 | 0.061 | ng/ul# | 66 |
| 20) Pyrene | 20.09 | 202 | 361 | 0.064 | ng/ul# | 68 |
| 21) Benzo(a)anthracene | 21.80 | 228 | 353 | 0.066 | ng/ul# | 82 |
| 22) Chrysene | 21.86 | 228 | 356 | 0.065 | ng/ul# | 84 |
| 24) Benzo(b)fluoranthene | 23.52 | 252 | 327 | 0.065 | ng/ul# | 51 |
| 25) Benzo(k)fluoranthene | 23.57 | 252 | 316 | 0.064 | ng/ul# | 52 |
| 26) Benzo(a)pyrene | 24.16 | 252 | 299 | 0.066 | ng/ul# | 49 |
| 27) Indeno(1,2,3-cd)pyrene | 26.80 | 276 | 321 | 0.060 | ng/ul# | 74 |
| 28) Dibenzo(a,h)anthracene | 26.81 | 278 | 273 | 0.062 | ng/ul# | 47 |
| 29) Benzo(g,h,i)perylene | 27.58 | 276 | 273 | 0.061 | ng/ul# | 57 |

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

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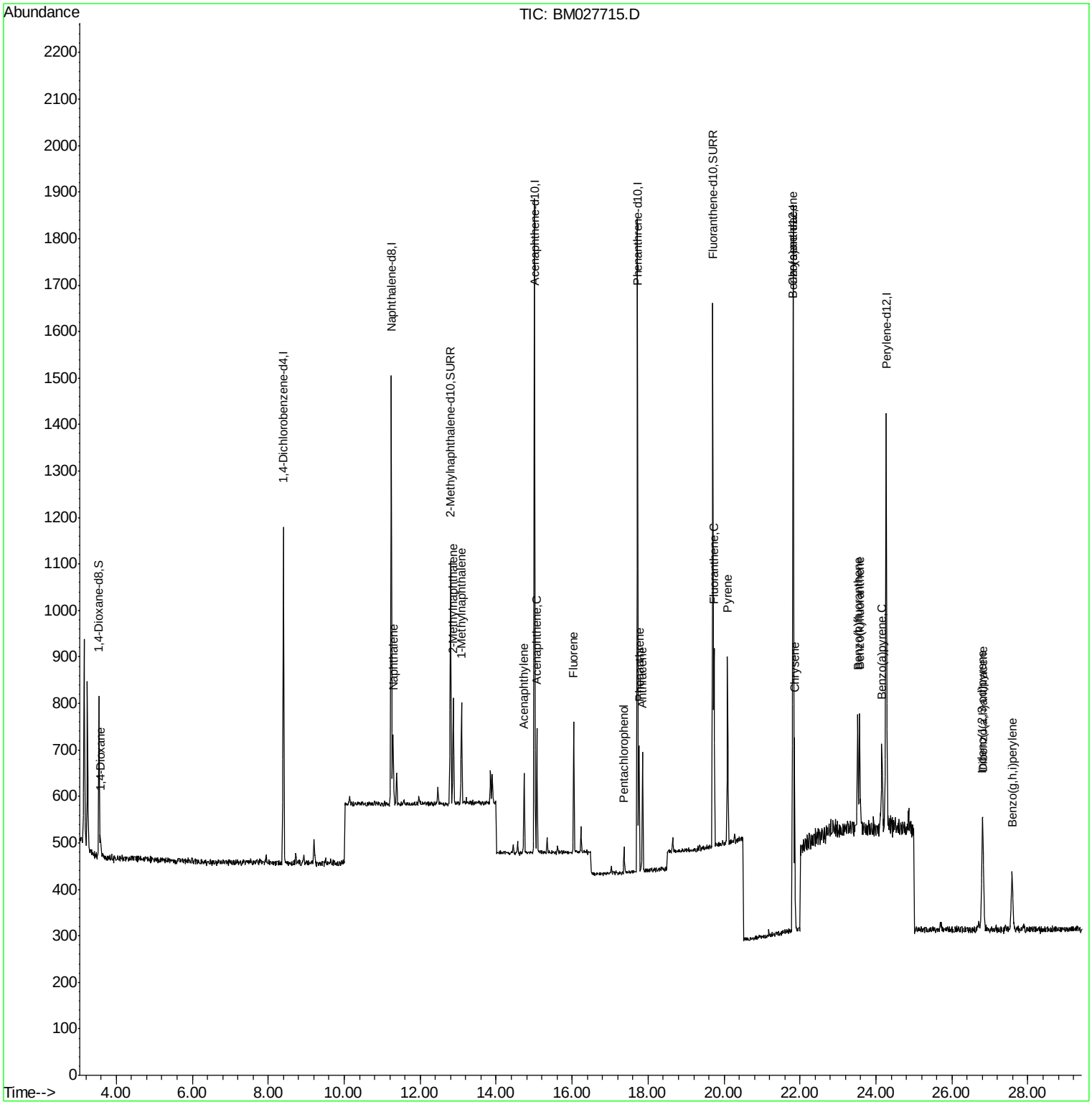
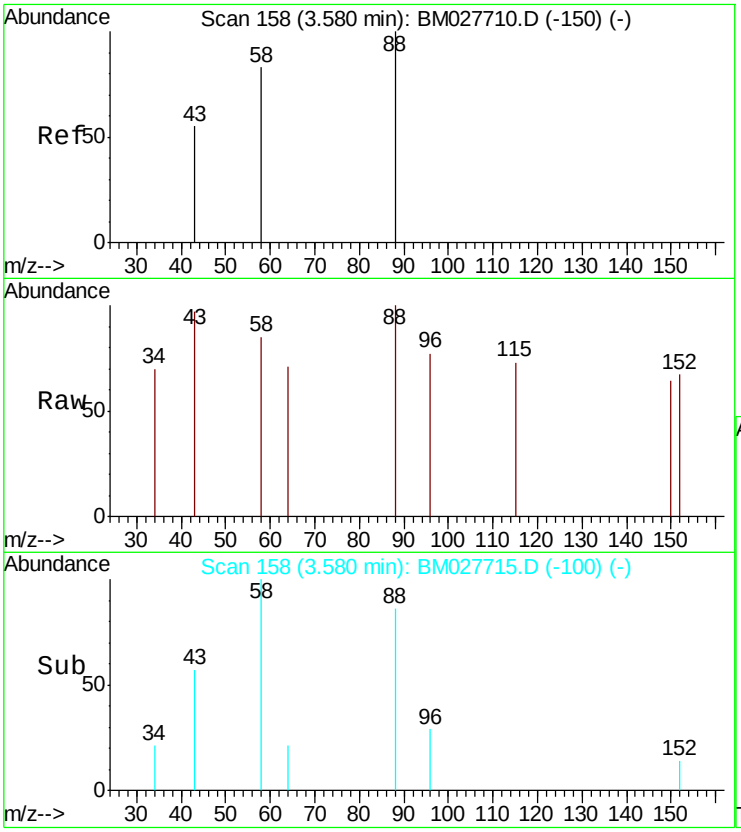
Operator : JU/CG
Sample : L4485-02
Misc : SFAM-SIM-MDL-S-02
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Quant Time: Nov 05 13:57:26 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM110520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 05 04:58:48 2020
Response via : Initial Calibration



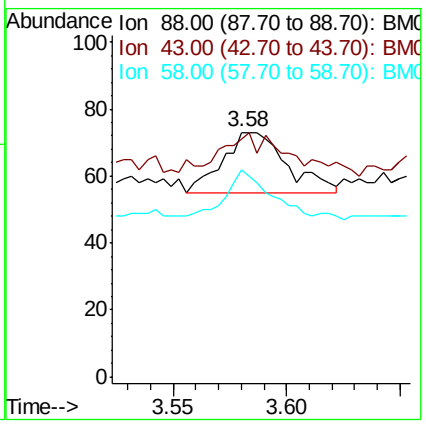


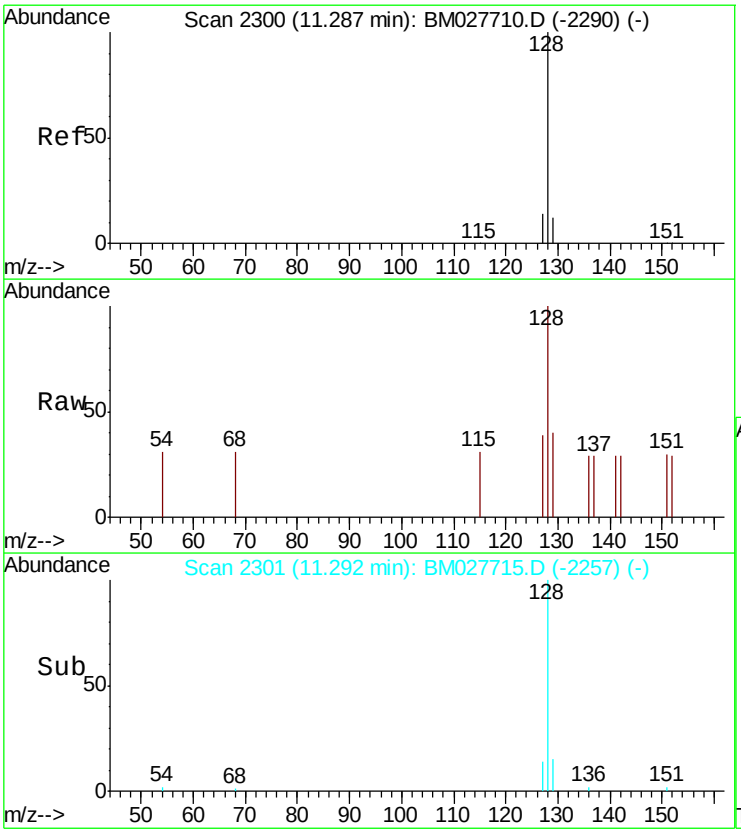

#2
1,4-Dioxane
Concen: 0.088 ng/ul
RT: 3.58 min Scan# 158
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion: 88 Resp: 35

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 97.3 | 61.8 | 92.6# |
| 58 | 84.9 | 67.8 | 101.8 |

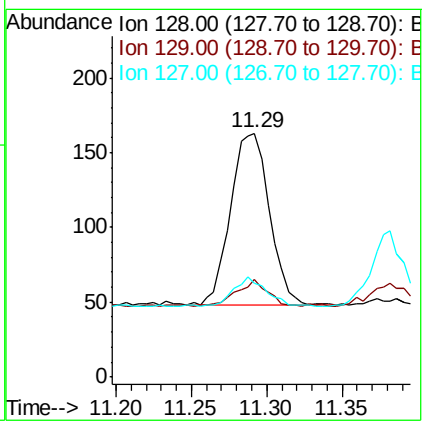


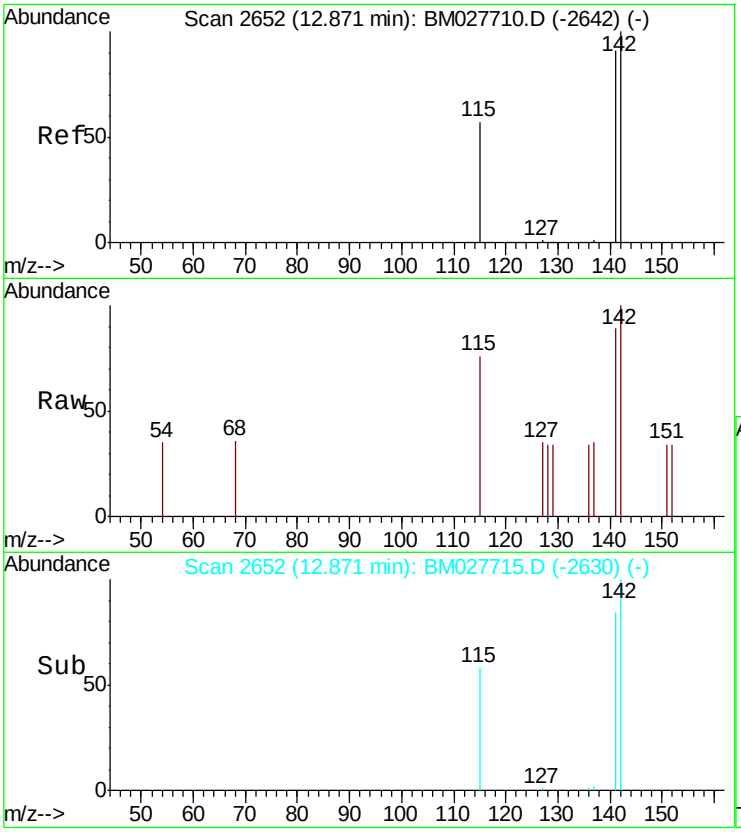




#5
Naphthalene
Concen: 0.059 ng/ul
RT: 11.29 min Scan# 2301
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:128 Resp: 206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 39.9 | 11.7 | 17.5# |
| 127 | 38.7 | 14.0 | 21.0# |



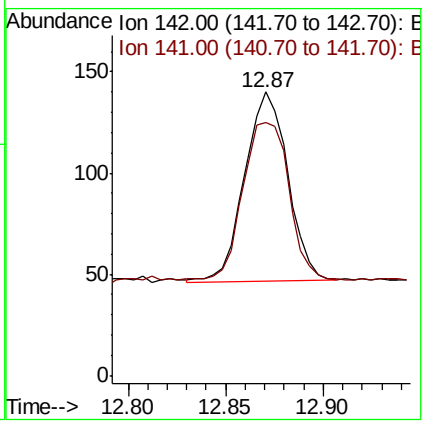


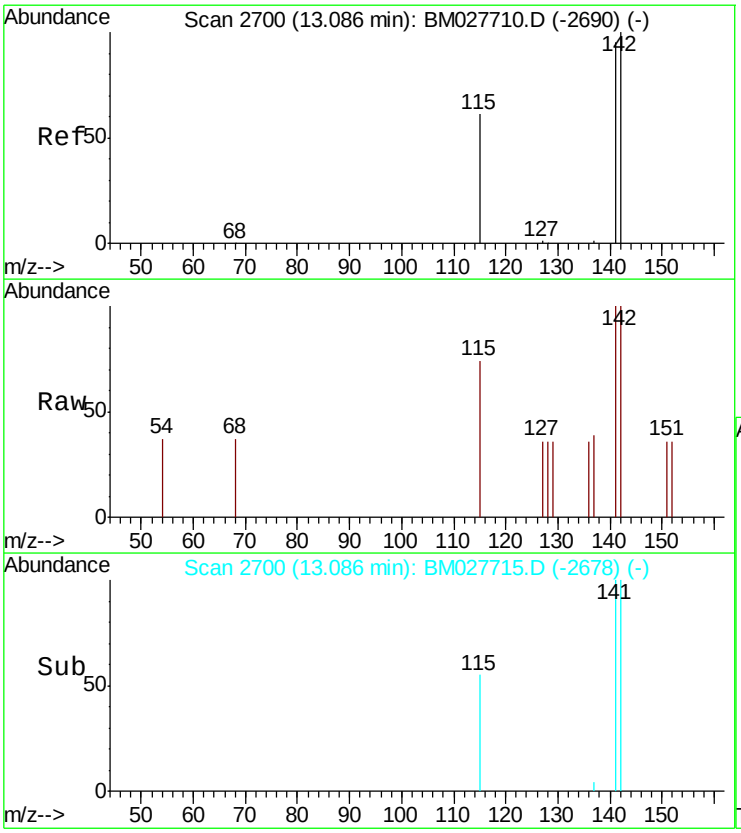

#7
2-Methylnaphthalene
Concen: 0.060 ng/ul
RT: 12.87 min Scan# 2652
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:142 Resp: 144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.9 | 71.2 | 106.8 |

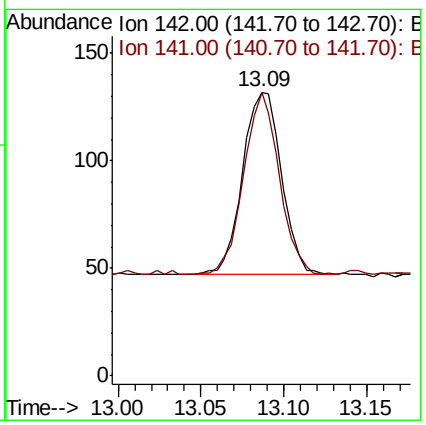


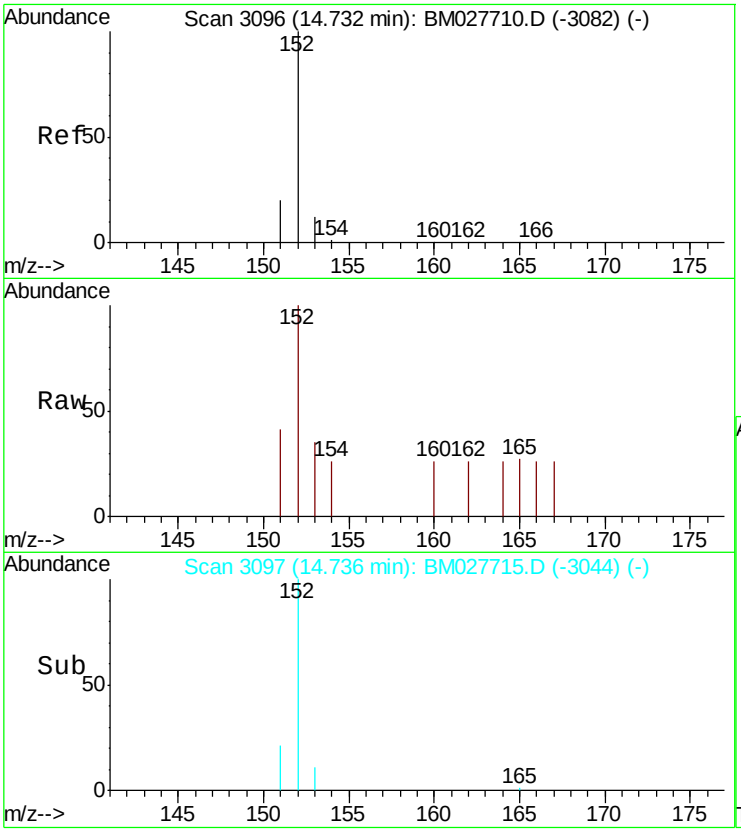




#8
1-Methylnaphthalene
Concen: 0.061 ng/ul
RT: 13.09 min Scan# 2700
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:142 Resp: 138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 74.1 | 111.1 |



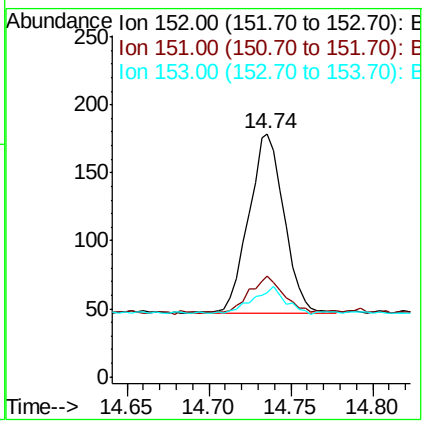


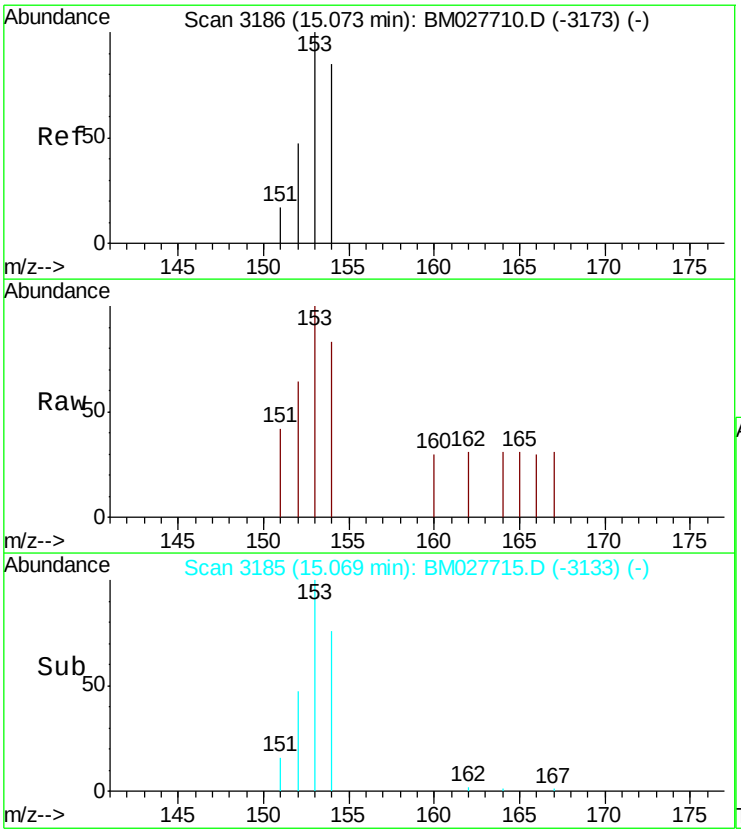

#10
Acenaphthylene
Concen: 0.057 ng/ul
RT: 14.74 min Scan# 3097
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:152 Resp: 198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 41.3 | 17.8 | 26.8# |
| 153 | 34.6 | 13.5 | 20.3# |

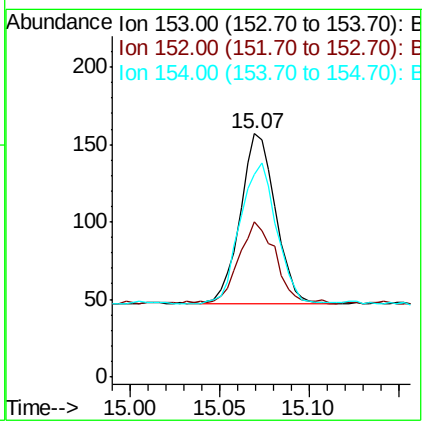


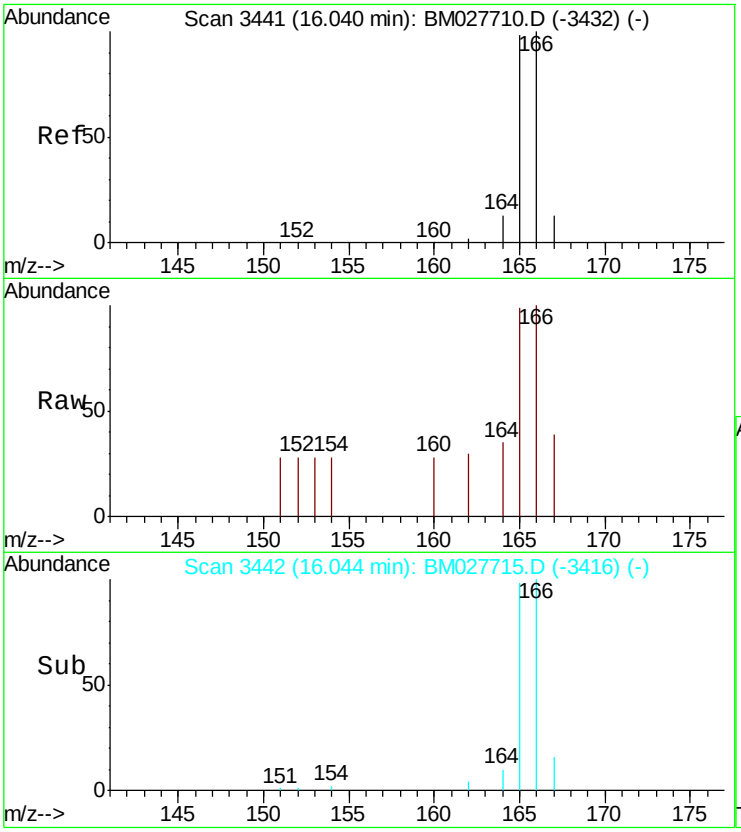




#11
Acenaphthene
Concen: 0.057 ng/ul
RT: 15.07 min Scan# 3185
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:153 Resp: 151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 63.7 | 40.6 | 60.8# |
| 154 | 83.4 | 71.0 | 106.4 |



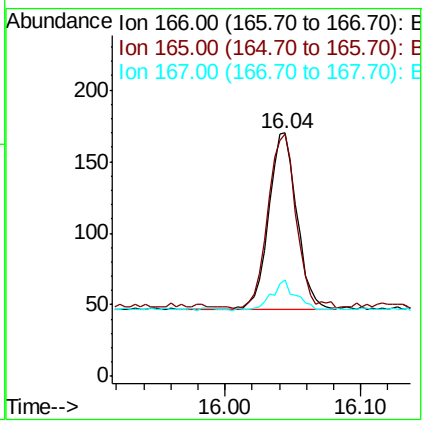


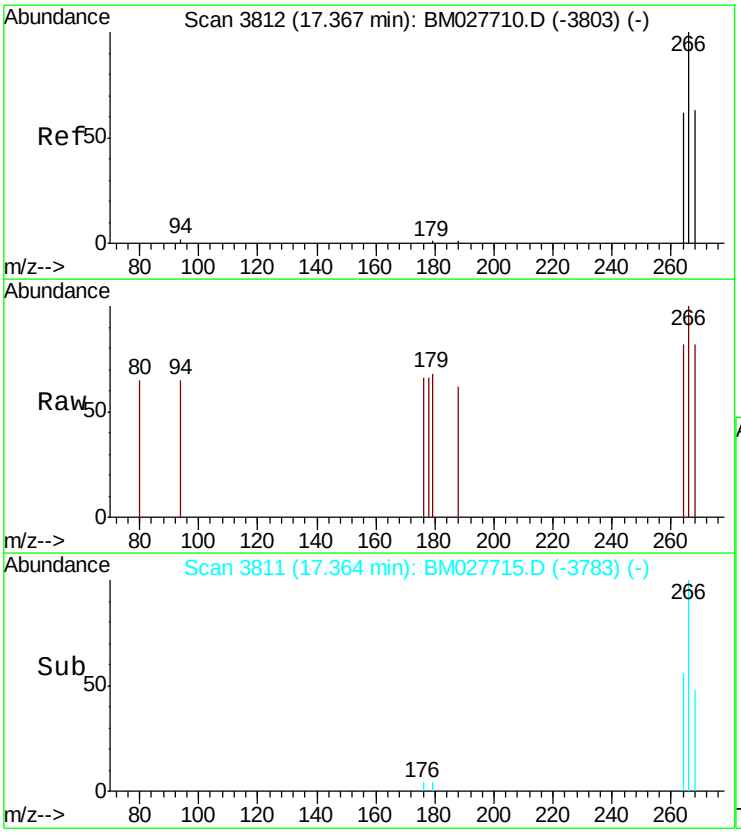

#12
Fluorene
Concen: 0.057 ng/ul
RT: 16.04 min Scan# 3442
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:166 Resp: 177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.4 | 76.2 | 114.4 |
| 167 | 39.4 | 13.7 | 20.5# |

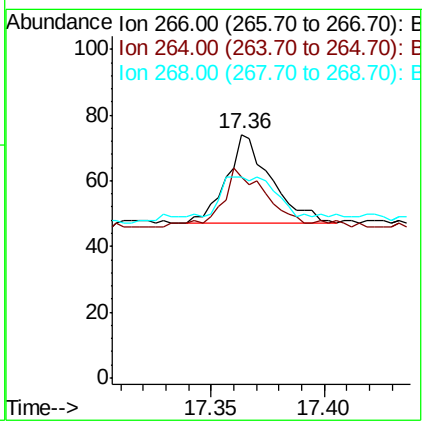


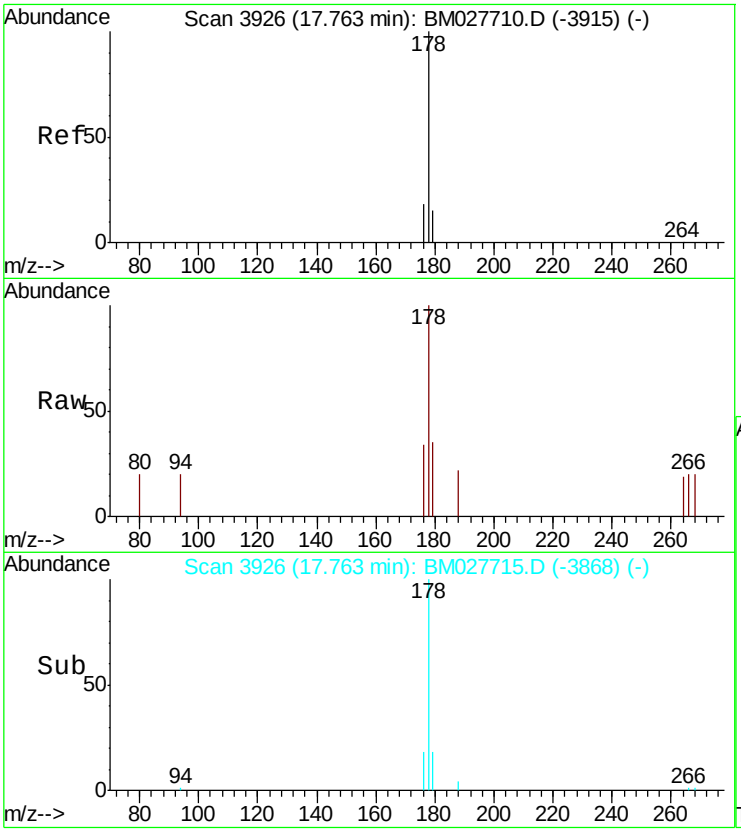




#14
Pentachlorophenol
Concen: 0.065 ng/ul
RT: 17.36 min Scan# 3811
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:266 Resp: 37

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.9 | 48.2 | 72.4 |
| 268 | 73.0 | 53.4 | 80.0 |



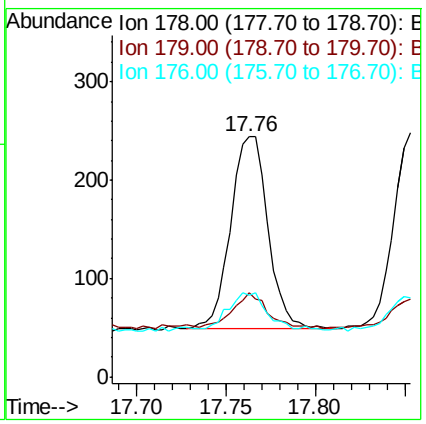


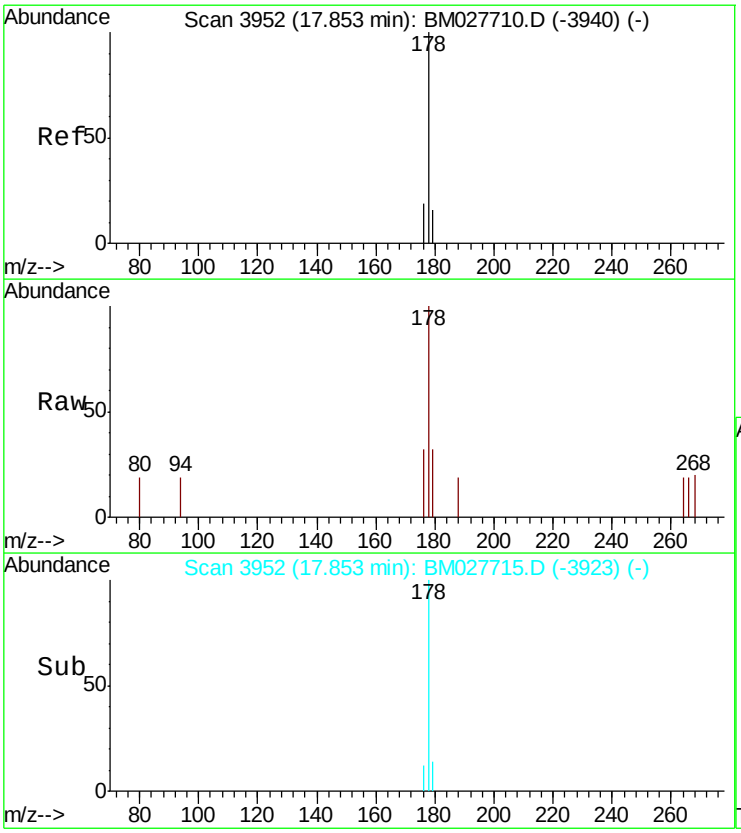

#15
Phenanthrene
Concen: 0.055 ng/ul
RT: 17.76 min Scan# 3926
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:178 Resp: 281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 34.8 | 14.6 | 22.0# |
| 176 | 34.0 | 18.2 | 27.2# |

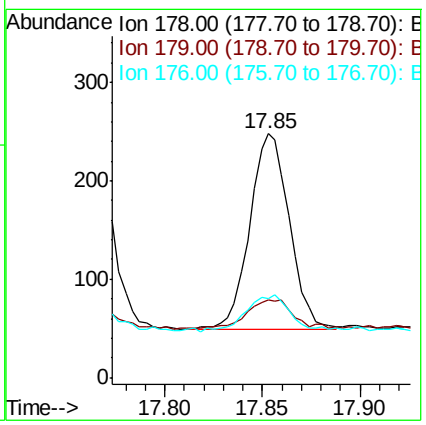


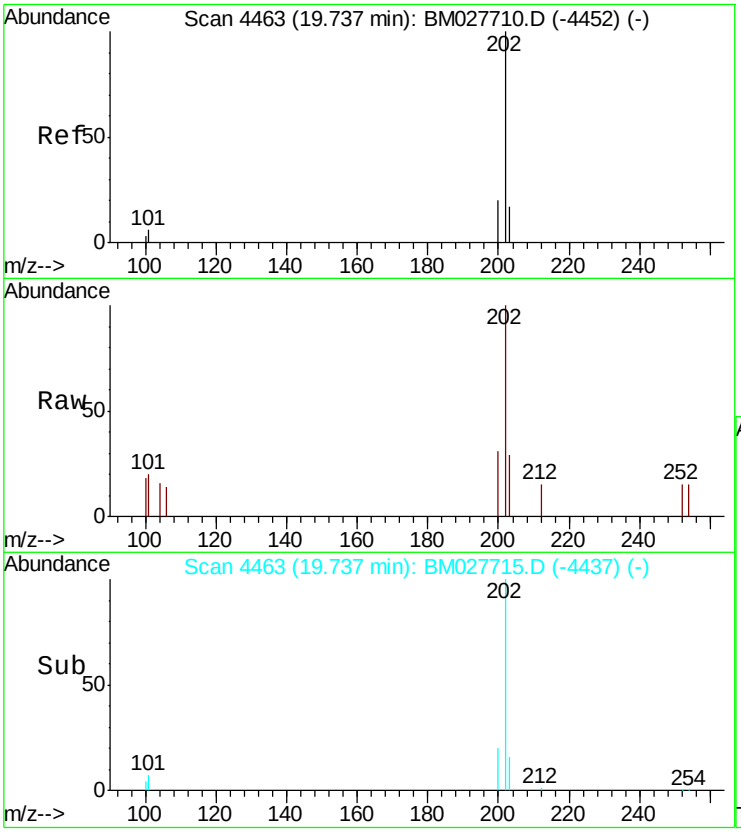




#16
Anthracene
Concen: 0.056 ng/ul
RT: 17.85 min Scan# 3952
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:178 Resp: 280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 31.9 | 14.1 | 21.1# |
| 176 | 32.3 | 16.3 | 24.5# |



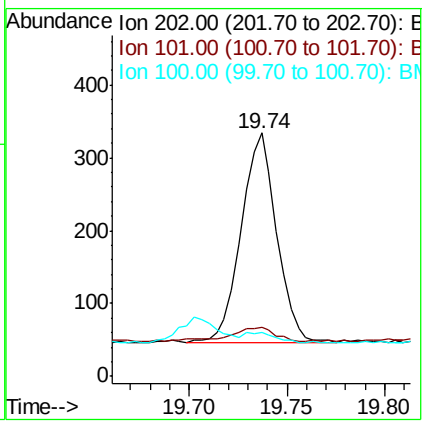


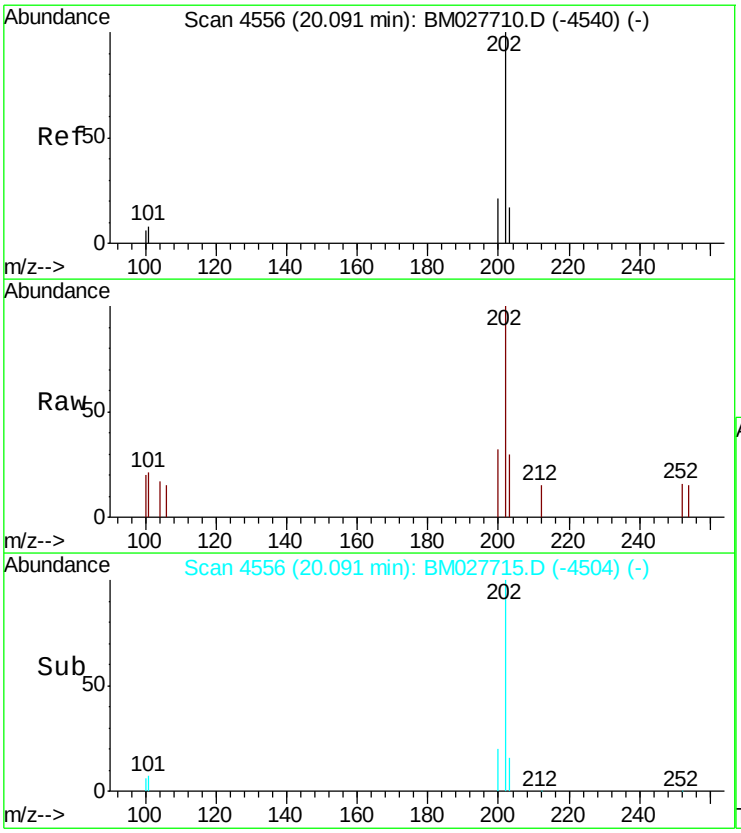

#18
Fluoranthene
Concen: 0.061 ng/ul
RT: 19.74 min Scan# 4463
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:202 Resp: 360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 20.4 | 6.1 | 9.1# |
| 100 | 18.0 | 5.8 | 8.6# |

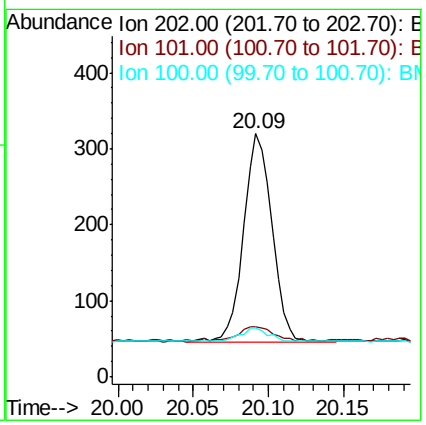


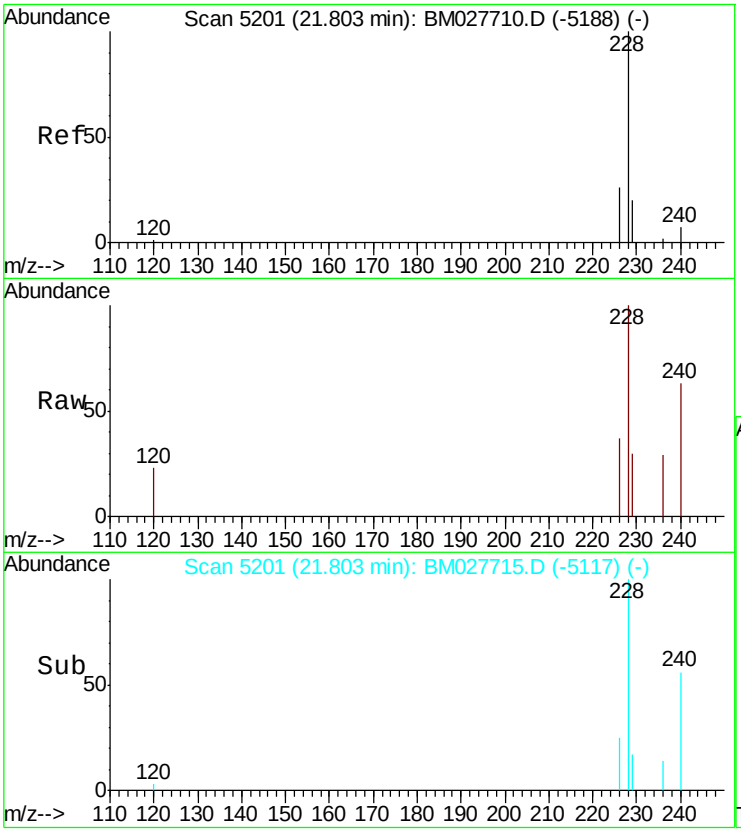




#20
Pyrene
Concen: 0.064 ng/ul
RT: 20.09 min Scan# 4556
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:202 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 20.6 | 7.4 | 11.0# |
| 100 | 20.0 | 6.6 | 9.8# |



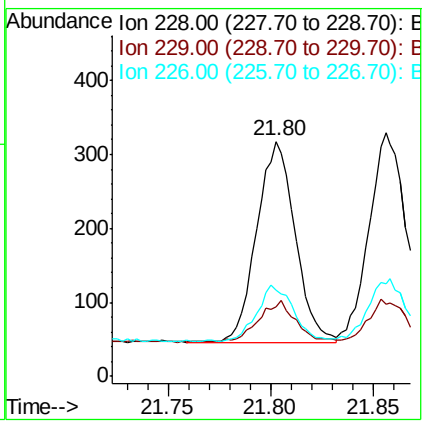


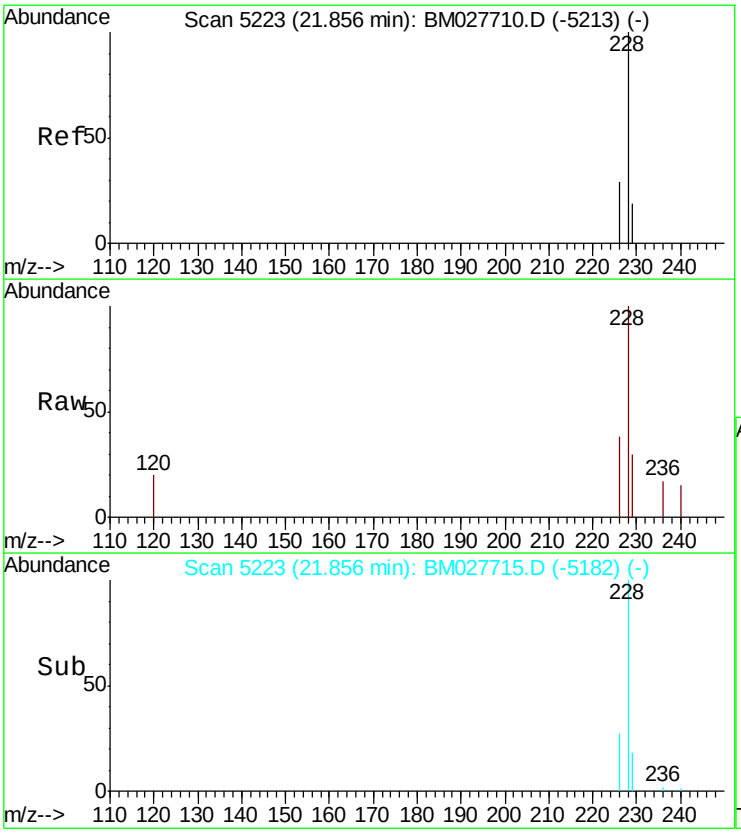

#21
Benzo(a)anthracene
Concen: 0.066 ng/ul
RT: 21.80 min Scan# 5201
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:228 Resp: 353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 29.6 | 17.0 | 25.4# |
| 226 | 36.8 | 22.0 | 33.0# |

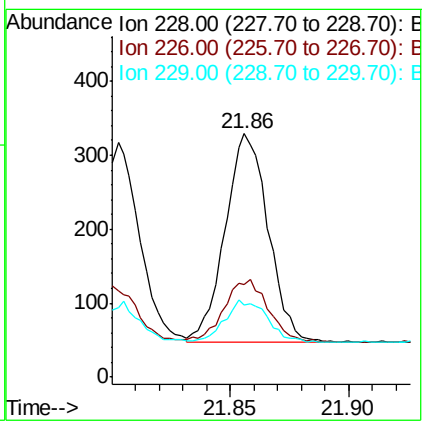


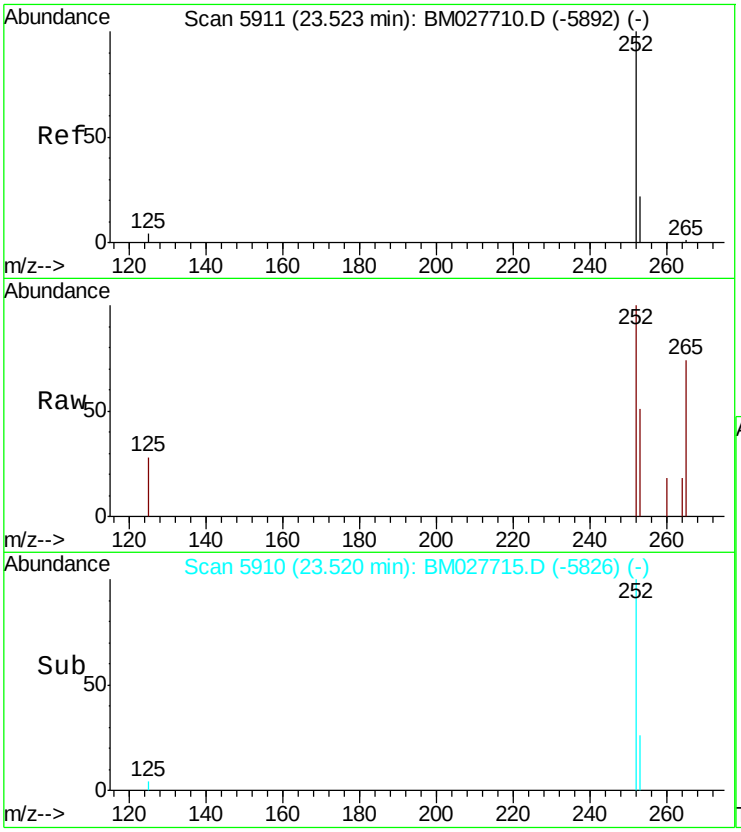




#22
Chrysene
Concen: 0.065 ng/ul
RT: 21.86 min Scan# 5223
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:228 Resp: 356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 38.0 | 24.0 | 36.0# |
| 229 | 29.8 | 16.9 | 25.3# |



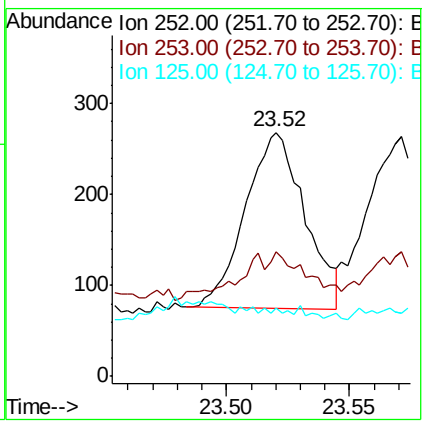


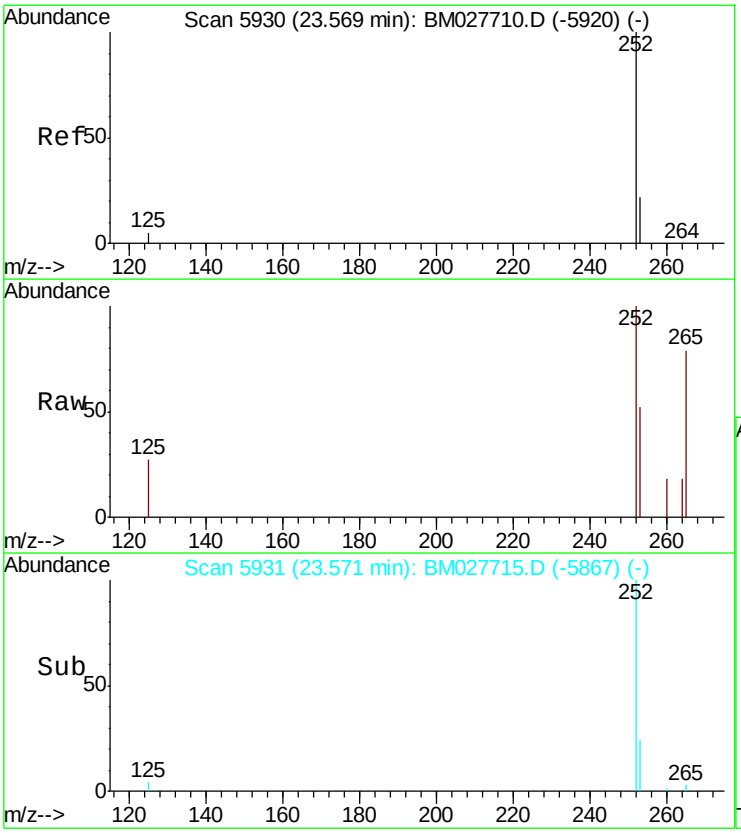

#24
Benzo(b)fluoranthene
Concen: 0.065 ng/ul
RT: 23.52 min Scan# 5910
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:252 Resp: 327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 51.1 | 0.0 | 53.0 |
| 125 | 28.0 | 0.0 | 17.6# |

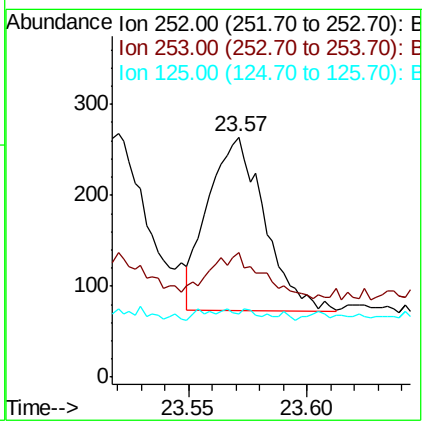


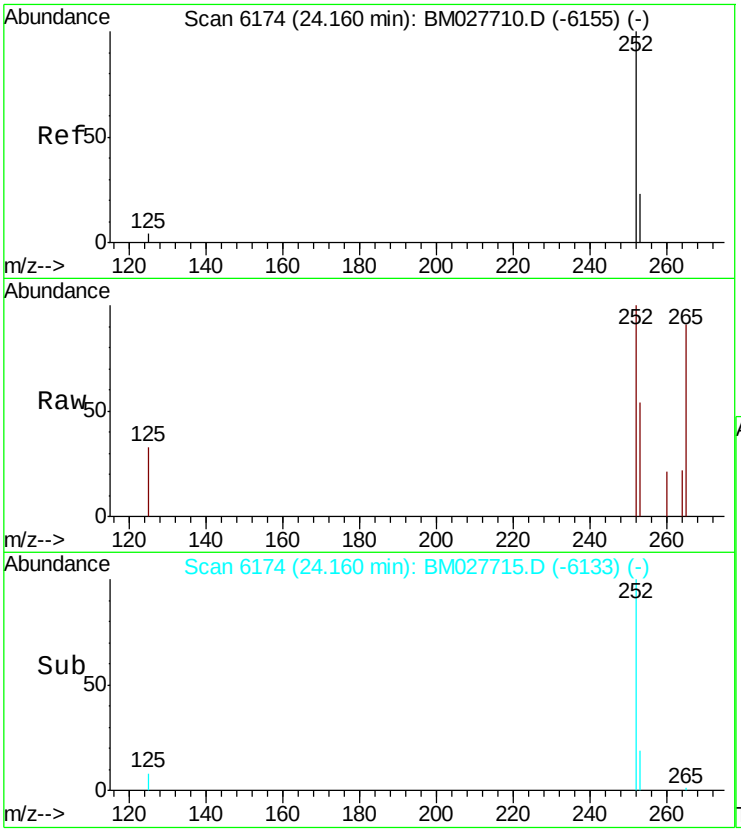




#25
Benzo(k)fluoranthene
Concen: 0.064 ng/ul
RT: 23.57 min Scan# 5931
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:252 Resp: 316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 51.9 | 21.4 | 32.2# |
| 125 | 26.5 | 7.4 | 11.0# |



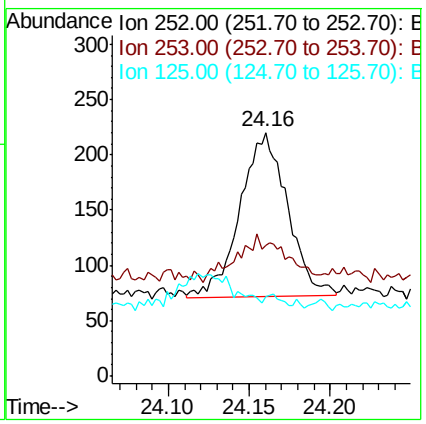


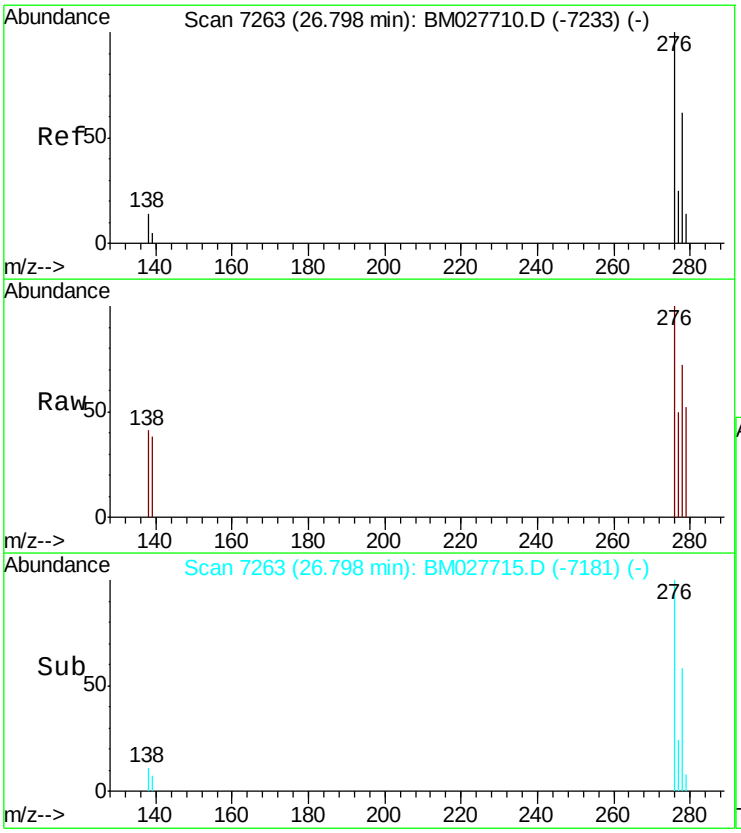

#26
Benzo(a)pyrene
Concen: 0.066 ng/ul
RT: 24.16 min Scan# 6174
Delta R.T. 0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:252 Resp: 299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 53.6 | 22.3 | 33.5# |
| 125 | 32.7 | 8.8 | 13.2# |

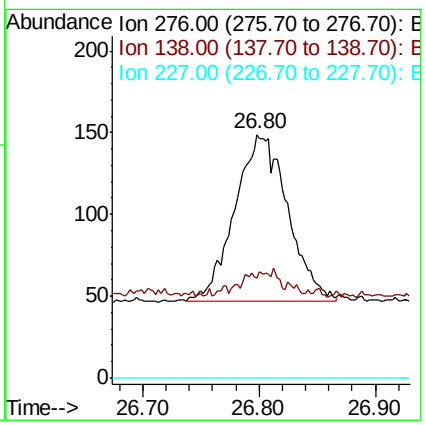


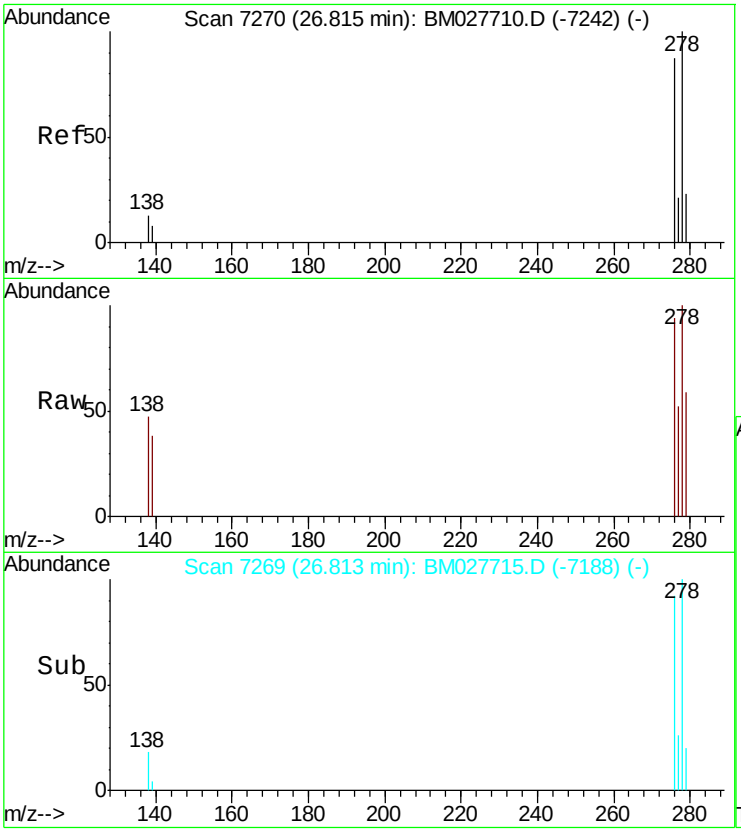




#27
Indeno(1,2,3-cd)pyrene
Concen: 0.060 ng/ul
RT: 26.80 min Scan# 7263
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:276 Resp: 321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 3.4 | 11.0 | 16.6# |
| 227 | 0.0 | 0.0 | 0.0 |



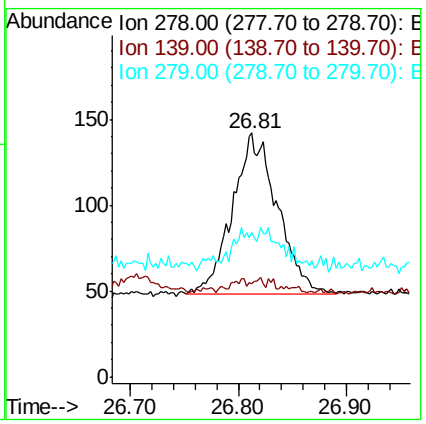


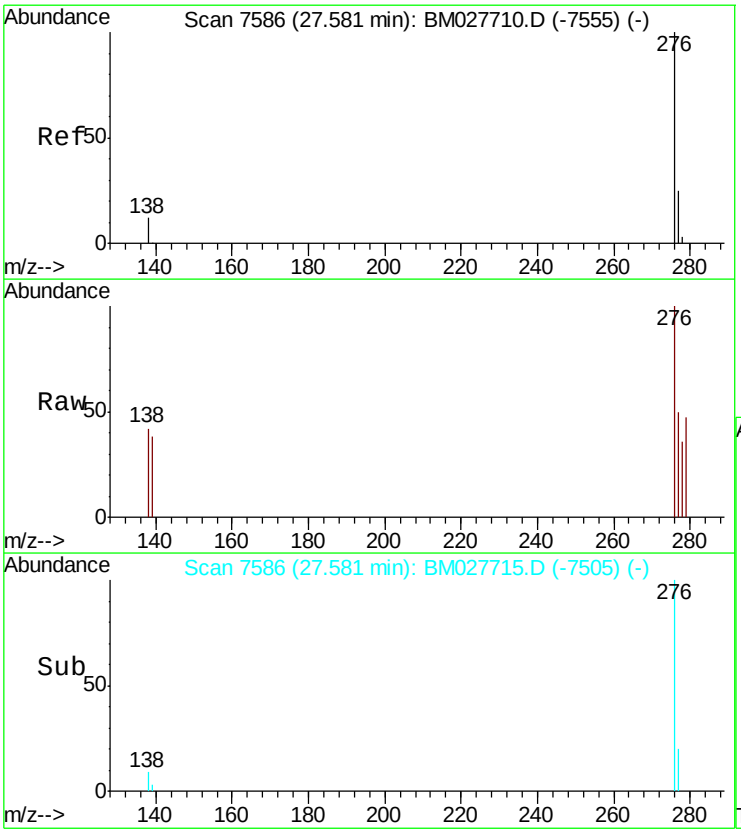

#28
Dibenzo(a,h)anthracene
Concen: 0.062 ng/ul
RT: 26.81 min Scan# 7269
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

**Instrument :**
BNA_M
**ClientSampleId :**
MDL-SOIL-02

Tgt Ion:278 Resp: 273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 38.0 | 12.6 | 18.8# |
| 279 | 59.2 | 24.3 | 36.5# |




#29
Benzo(g,h,i)perylene
Concen: 0.061 ng/ul
RT: 27.58 min Scan# 7586
Delta R.T. -0.00 min
Lab File: BM027715.D
Acq: 05 Nov 2020 13:00

Tgt Ion:276 Resp: 273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 42.3 | 15.0 | 22.4# |
| 277 | 50.4 | 24.2 | 36.2# |