**Worklist: 1461**

| LAB  CASE | ITEM | TASK  ID | DESCRIPTION | |
|-----------|------|----------|-------------|---|
| C2017-0011 | 1 | 73620 | AM 3 Urine Carboxy-THC | |
| C2017-0017 | 1 | 73621 | AM 3 Urine Carboxy-THC | |
| C2017-0021 | 1 | 73622 | AM 3 Urine Carboxy-THC | |
| M2016-5032 | 3 | 73625 | AM 3 Urine Carboxy-THC | |
| M2016-5151 | 3 | 73624 | AM 3 Urine Carboxy-THC | |
| P2016-2919 | 2 | 73623 | AM 3 Urine Carboxy-THC | |

Data Path : D:\DATA\2017\1-5-17 Gen Drug and C-THC\
Data File : 03201029.D
Acq On    : 05 Jan 2017  23:05
Operator  :
Sample    : negative control
Misc      : lot 121616; am 3
ALS Vial  : 32   Sample Multiplier: 1


Integration Parameters: autoint1.e
Integrator: ChemStation


Method    : D:\DATA\2016\852016a ta\psilocyn .D\TOXI-A 10115.M
Title     :


Signal    : EIC Ion 371.00 (370.70 to 371.70): 03201029.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.905 | 15 | 23 | 32 | BV | 42839 | 585109 | 100.00% | 100.000% |


                  Sum of corrected areas:      585109
Signal    : EIC Ion 473.00 (472.70 to 473.70): 03201029.D\data.ms

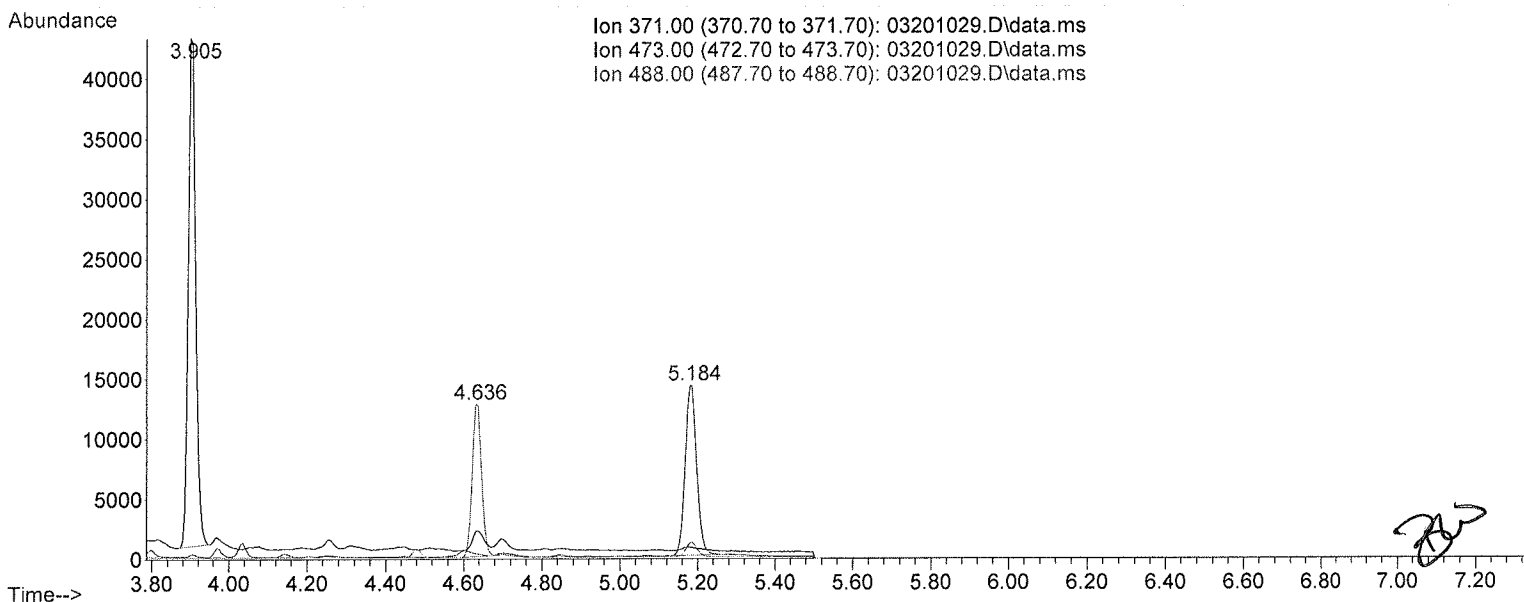| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.184 | 246 | 261 | 277 | BB | 14249 | 289942 | 100.00% | 100.000% |


                  Sum of corrected areas:      289942
Signal    : EIC Ion 488.00 (487.70 to 488.70): 03201029.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.636 | 150 | 159 | 168 | BV | 12762 | 212053 | 100.00% | 100.000% |


                  Sum of corrected areas:      212053

TOXI-A 10115.M Thu Jan 05 23:27:57 2017

```
Data Path : D:\DATA\2017\1-5-17 Gen Drug and C-THC\
Data File : 03101043.D
Acq On    : 06 Jan 2017  01:16
Operator  :
Sample    : positive control
Misc      : lot FE042312-01 WS in negative lot 121616; am 3
ALS Vial  : 31   Sample Multiplier: 1


Integration Parameters: autoint1.e
Integrator: ChemStation


Method    : D:\DATA\2016\852016a ta\psilocyn .D\TOXI-A 10115.M
Title     :


Signal    : EIC Ion 371.00 (370.70 to 371.70): 03101043.D\data.ms
```

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.903 | 16 | 23 | 32 | PV | 53228 | 720355 | 7.31% | 6.812% |
| 2 | 4.696 | 162 | 170 | 204 | VV | 559751 | 9854152 | 100.00% | 93.188% |

```
                  Sum of corrected areas:   10574508
Signal    : EIC Ion 473.00 (472.70 to 473.70): 03101043.D\data.ms
```

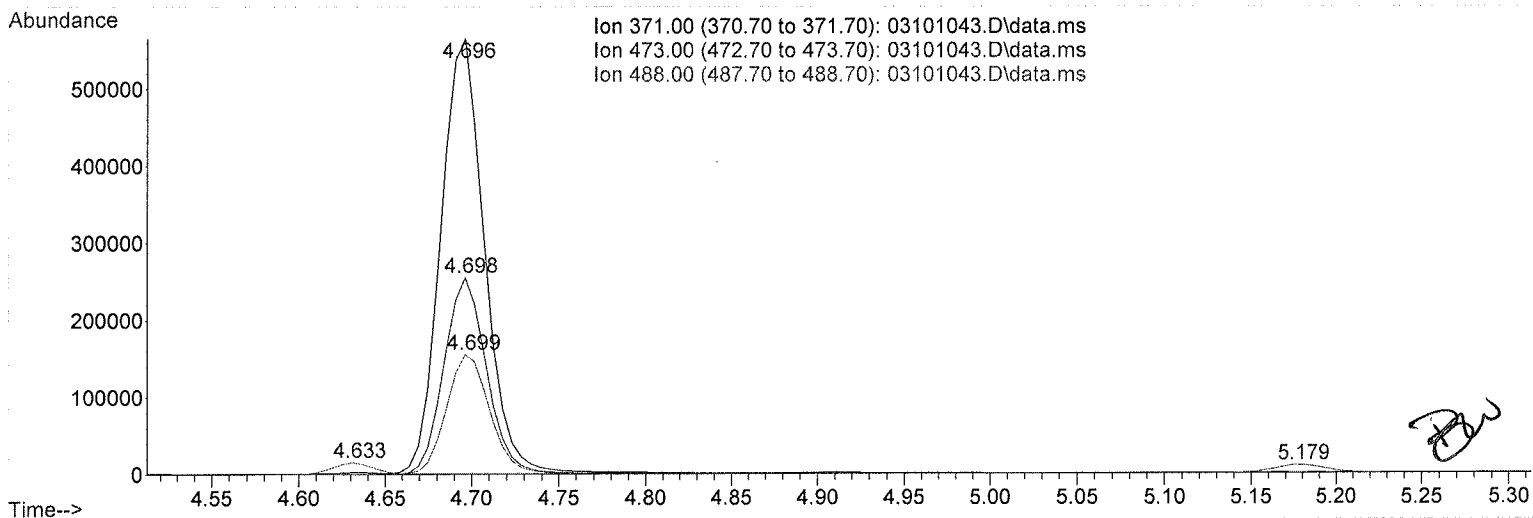| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.698 | 161 | 170 | 202 | BB | 249307 | 4360988 | 100.00% | 95.382% |
| 2 | 5.179 | 249 | 260 | 273 | BB | 10139 | 211131 | 4.84% | 4.618% |

```
                  Sum of corrected areas:    4572118
Signal    : EIC Ion 488.00 (487.70 to 488.70): 03101043.D\data.ms
```

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.633 | 149 | 158 | 164 | BV | 15028 | 251201 | 9.27% | 8.486% |
| 2 | 4.699 | 164 | 171 | 199 | VB | 152689 | 2708921 | 100.00% | 91.514% |

```
                  Sum of corrected areas:    2960122

TOXI-A 10115.M Fri Jan 06 07:08:33 2017
```

```
Data Path : D:\DATA\2017\1-5-17 Gen Drug and C-THC\
Data File : 03101028.D
Acq On    : 05 Jan 2017  22:56
Operator  :
Sample    : positive control
Misc      : lot FE042312-01 WS in negative lot 121616; am 3
ALS Vial  : 31    Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method    : D:\DATA\2016\852016a ta\psilocyn .D\TOXI-A 10115.M
Title     :

Signal    : EIC Ion 371.00 (370.70 to 371.70): 03101028.D\data.ms
```

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.904 | 15 | 23 | 32 | PV | 51273 | 747975 | 7.45% | 6.938% |
| 2 | 4.698 | 162 | 170 | 205 | VV | 533293 | 10033412 | 100.00% | 93.062% |

```
                  Sum of corrected areas:    10781387
Signal    : EIC Ion 473.00 (472.70 to 473.70): 03101028.D\data.ms
```

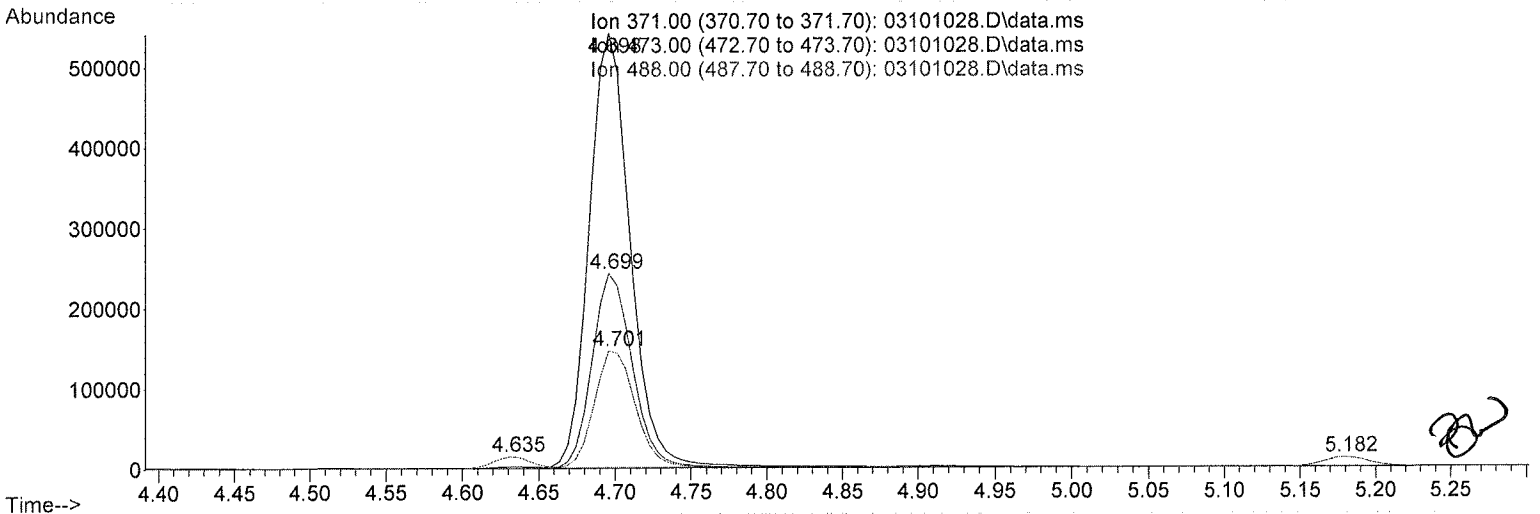| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.699 | 161 | 171 | 204 | PV | 239017 | 4457816 | 100.00% | 94.690% |
| 2 | 5.182 | 248 | 260 | 279 | BB | 11649 | 249986 | 5.61% | 5.310% |

```
                  Sum of corrected areas:    4707802
Signal    : EIC Ion 488.00 (487.70 to 488.70): 03101028.D\data.ms
```

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.635 | 139 | 159 | 164 | BV | 14770 | 256967 | 9.27% | 8.486% |
| 2 | 4.701 | 164 | 171 | 204 | VB | 145559 | 2771056 | 100.00% | 91.514% |

```
                  Sum of corrected areas:    3028023

TOXI-A 10115.M Thu Jan 05 23:27:29 2017
```

Abundance

Ion 371.00 (370.70 to 371.70): 03101028.D\data.ms
Ion 473.00 (472.70 to 473.70): 03101028.D\data.ms
Ion 488.00 (487.70 to 488.70): 03101028.D\data.ms

Data Path : D:\DATA\2017\1-5-17 Gen Drug and C-THC\
Data File : 03301030.D
Acq On    : 05 Jan 2017  23:15
Operator  :
Sample    : BRC3
Misc      : lot 68430; am 3
ALS Vial  : 33    Sample Multiplier: 1


Integration Parameters: autoint1.e
Integrator: ChemStation


Method    : D:\DATA\2016\852016a ta\psilocyn .D\TOXI-A 10115.M
Title     :


Signal    : EIC Ion 371.00 (370.70 to 371.70): 03301030.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.903 | 14 | 23 | 31 | BV | 22464 | 314299 | 29.96% | 21.801% |
| 2 | 4.697 | 162 | 170 | 193 | VB | 61659 | 1049056 | 100.00% | 72.768% |
| 3 | 4.912 | 198 | 210 | 220 | BB 2 | 4275 | 78289 | 7.46% | 5.431% |


Sum of corrected areas:     1441643

Signal    : EIC Ion 473.00 (472.70 to 473.70): 03301030.D\data.ms

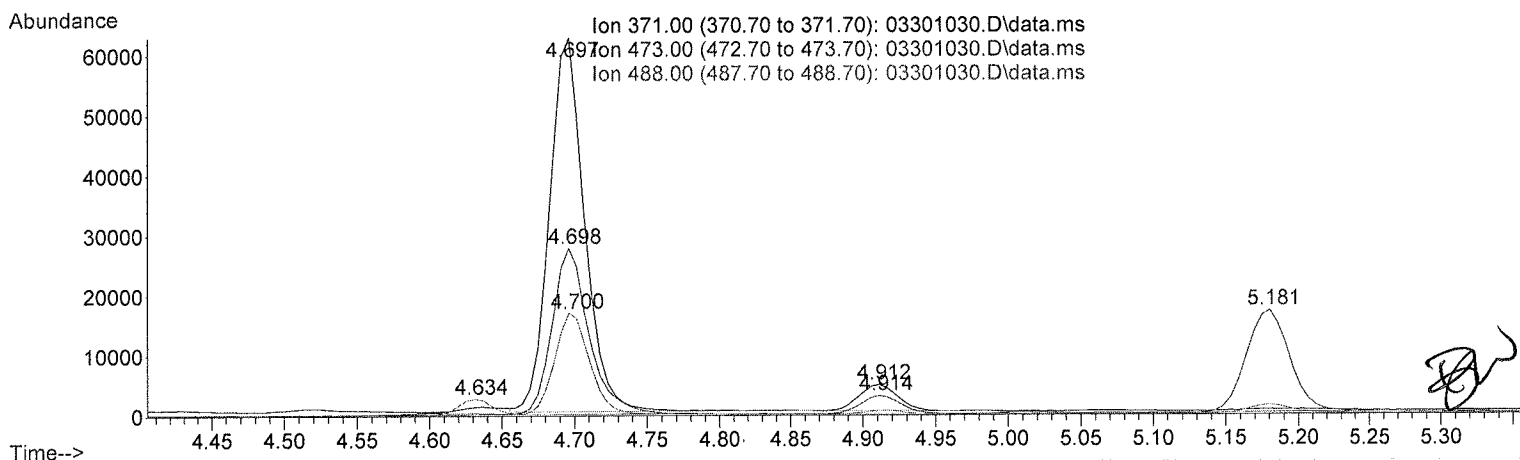| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.698 | 143 | 170 | 190 | BB | 27114 | 499578 | 100.00% | 55.105% |
| 2 | 4.914 | 203 | 210 | 222 | BB 2 | 2952 | 55608 | 11.13% | 6.134% |
| 3 | 5.181 | 250 | 260 | 277 | BB | 16851 | 351400 | 70.34% | 38.761% |


Sum of corrected areas:     906586

Signal    : EIC Ion 488.00 (487.70 to 488.70): 03301030.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.634 | 137 | 158 | 164 | BV | 2541 | 40778 | 14.60% | 12.737% |
| 2 | 4.700 | 164 | 171 | 181 | VV | 16590 | 279381 | 100.00% | 87.263% |


Sum of corrected areas:     320159

TOXI-A 10115.M Thu Jan 05 23:28:47 2017

# 2.4.4 Carboxy-THC
# QC Calculations

Run Date: **1/5/2017**

### Case Calculations:

Lab Case #: BRC3-68430

| | | |
|---|---|---|
| EIC Ion 371 Corr. Area: | 1049056 | |
| EIC Ion 473 Corr. Area: | 499578 | 473:371 Ratio: **0.476** |
| EIC Ion 488 Corr. Area: | 279381 | 488:371 Ratio: **0.266** |

### Quality Contol Calculations:

Retention Time acceptable range: 4.598 to 4.796

| | 1st ctrl | 2nd ctrl |
|---|---|---|
| EIC Ion 371 Corr. Area: | 9854152 | 10033412 |
| EIC Ion 473 Corr. Area: | 4360988 | 4457816 |
| EIC Ion 488 Corr. Area: | 2708921 | 2771056 |

Approximate minimum corrected area of 371 ion: ~ **1970830**

### Ratio of 473:371

1st ctrl **0.443**     2nd ctrl **0.444**     avg. 0.443

Accepted Range
(+/- 20%)     **0.355** - **0.532**

### Ratio of 488:371

1st ctrl **0.275**     2nd ctrl **0.276**     avg 0.276

Accepted Range
(+/- 20%):     **0.220** - **0.331**