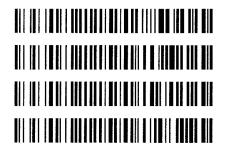
Worklist: 1751

LAB CASE	<u>ITEM</u>	TASK ID	DESCRIPTION
C2017-0747	1	86712	AM 3 Urine Carboxy-THC
C2017-1005	3	86709	AM 3 Urine Carboxy-THC
C2017-1006	1	86710	AM 3 Urine Carboxy-THC
C2017-1021	1	86711	AM 3 Urine Carboxy-THC







2.4.4 Carboxy-THC QC Calculations

Run Date: <u>6/6/2017</u>

Case Calculations:

Lab Case #: BRC3

EIC Ion 371 Corr. Area: 67217

EIC Ion 473 Corr. Area: 32106 473:371 Ratio: 0.478

EIC Ion 488 Corr. Area: 23792 488:371 Ratio: 0.354

Quality Contol Calculations:

Retention Time acceptable range: 4.553 to 4.753

1st ctrl 2nd ctrl

EIC Ion 371 Corr. Area: 289639 315415

EIC Ion 473 Corr. Area: 134797 147856

87658

Approximate minimum corrected area of 371 ion: ~ 57928

Ratio of 473:371

1st ctrl <u>0.465</u> 2nd ctrl <u>0.469</u> avg. **0.467**

Accepted Range

EIC Ion 488 Corr. Area:

(+/- 20%) **0.374** - **0.560**

Ratio of 488:371

0.292

avg

2nd ctrl

Accepted Range

(+/- 20%): **0.238** - **0.357**

1st ctrl

Carboxy-calculation sheet Revision 0 effective date 10/23/13 Issuing authority: Quality Manager

0.297

92066

File :I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\02301

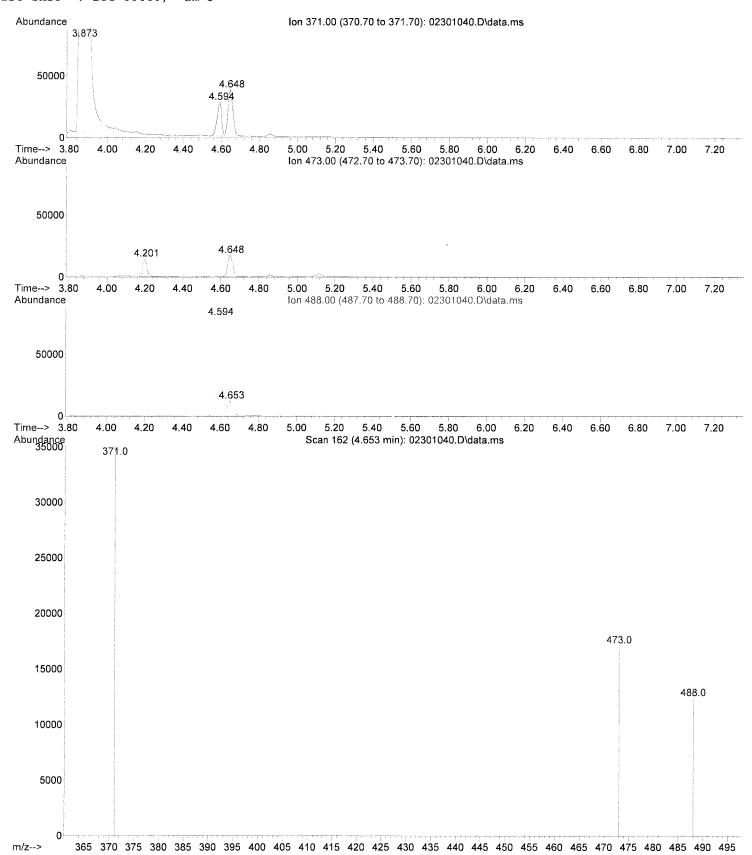
.. 040.D

Operator : Instrument 65198

Instrument : Instrument # 65198- Tox Cd'A

Acquired : 06 Jun 2017 23:10 using AcqMethod cthc 101415.M

Sample Name: brc3 control Misc Info : lot 68440; am 3





Data Path: I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\

Data File : 02301040.D

Acq On : 06 Jun 2017 23:10
Operator : Instrument 65198
Sample : brc3 control
Misc : lot 68440; am 3

ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing: ON Filtering: 5

Sampling: 1 Min Area: 15000 Area counts

Start Thrs: 0.2 Max Peaks: 100
Stop Thrs: 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : C:\msdchem\1\METHODS\DEFAULT.M

Title :

Signal : EIC Ion 371.00 (370.70 to 371.70): 02301040.D\data.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of
#	min	scan	scan	scan	TY	height	area	% max.	total
1	3.873	9	17	46	rBV	7255015	9265731	100.00%	98.817%
2	4.594	142	151	155	rBV	27295	43728	0.47%	0.466%
3	4.648	155	161	176	rVB	37502	67217	0.73%	0.717%

Sum of corrected areas: 9376676

Signal : EIC Ion 473.00 (472.70 to 473.70): 02301040.D\data.ms

						peak height		corr. % max.	
1	4.201	72	78	97	rVB	14413	21094	65.70%	39.650%
2	4.648	154	161	178	rVB	17340	32106	100.00%	60.350%

Sum of corrected areas: 53200

Signal : EIC Ion 488.00 (487.70 to 488.70): 02301040.D\data.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of
#	min	scan	scan	scan	ΤΥ	height	area	% max.	total
1	4.594	140	151	158	rBV	520114	846909	100.00%	97.267%
2	4.653	158	162	195	rVB2	12112	23792	2.81%	2.733%
							Ser New Address of the Party of	-	

Sum of corrected areas: 870701

DEFAULT.M Thu Jun 08 11:36:57 2017



File :I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\02101 038.D : Instrument 65198 Operator Instrument # 65198- Tox Cd'A Instrument : Acquired : 06 Jun 2017 22:52 using AcqMethod cthc 101415.M Sample Name: negative control Misc Info : lot 42617; am 3 Abundance Ion 371.00 (370.70 to 371.70): 02101038.D\data.ms 3,873 400000 200000 0 4.60 Time--> 3.80 4.00 4.20 4.40 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 Abundance Ion 473.00 (472.70 to 473.70): 02101038.D\data.ms 400000 200000 0 3.873 4.40.71240 201 4.594675 5.008.116 Time---> 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 7.00 7.20 6.60 6.80 Abundance Ion 488.00 (487.70 to 488.70): 02101038.D\data.ms 4.594 400000 200000 Time--> 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 Abundance Scan 165 (4.669 min): 02101038.D\data.ms 488.0 371.0 1300 1200 1100 1000 900 800 700 600 500 473.0 400 300

365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495

200

100



Data Path : I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\

Data File : 02101038.D

Acq On : 06 Jun 2017 22:52 Operator : Instrument 65198 Sample : negative control Misc : lot 42617; am 3

ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing: ON Filtering: 5

Sampling: 1 Min Area: 2 % of largest Peak

Start Thrs: 0.2 Max Peaks: 100 Stop Thrs: 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : C:\msdchem\1\METHODS\DEFAULT.M

Title :

Signal : EIC Ion 371.00 (370.70 to 371.70): 02101038.D\data.ms

 peak
 R.T. first
 max last
 PK
 peak
 corr.
 corr.
 % of

 #
 min
 scan
 scan
 TY
 height
 area
 % max.
 total

 -- -- -- -- -- -- -- --

 1
 3.873
 9
 17
 65 rBV
 7564653
 10049540
 100.00%
 100.00%

Sum of corrected areas: 10049540

Signal : EIC Ion 473.00 (472.70 to 473.70): 02101038.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.873	12	17	27	rVB	612	767	3.47%	2.028%
2	4.072	48	54	58	rBV	835	1174	5.30%	3.104%
3	4.110	58	61	68	rVV2	451	710	3.21%	1.877%
4	4.201	71	78	97	rVB	15062	22131	100.00%	58.504%
5	4.594	144	151	156	rVB	538	866	3.91%	2.289%
6	4.675	159	166	176	rVB	349	627	2.83%	1.658%
7	5.008	221	228	233	rBV2	208	443	2.00%	1.171%
8	5.116	234	248	280	rVB	5055	11110	50.20%	29.370%

Sum of corrected areas: 37828

Signal : EIC Ion 488.00 (487.70 to 488.70): 02101038.D\data.ms

 peak
 R.T. first
 max last
 PK
 peak
 corr.
 corr.
 % of

 #
 min
 scan
 scan
 TY
 height
 area
 % max.
 total

 -- -- -- -- -- -- -- --

 1
 4.594
 140
 151
 206
 rBV
 563534
 931500
 100.00%
 100.000%

Sum of corrected areas: 931500

DEFAULT.M Thu Jun 08 11:24:17 2017



File :I:\Instrument Data\CDA\5977 TOX GCMS $CdA\2017\6-6-2017\02201$

.. 039.D

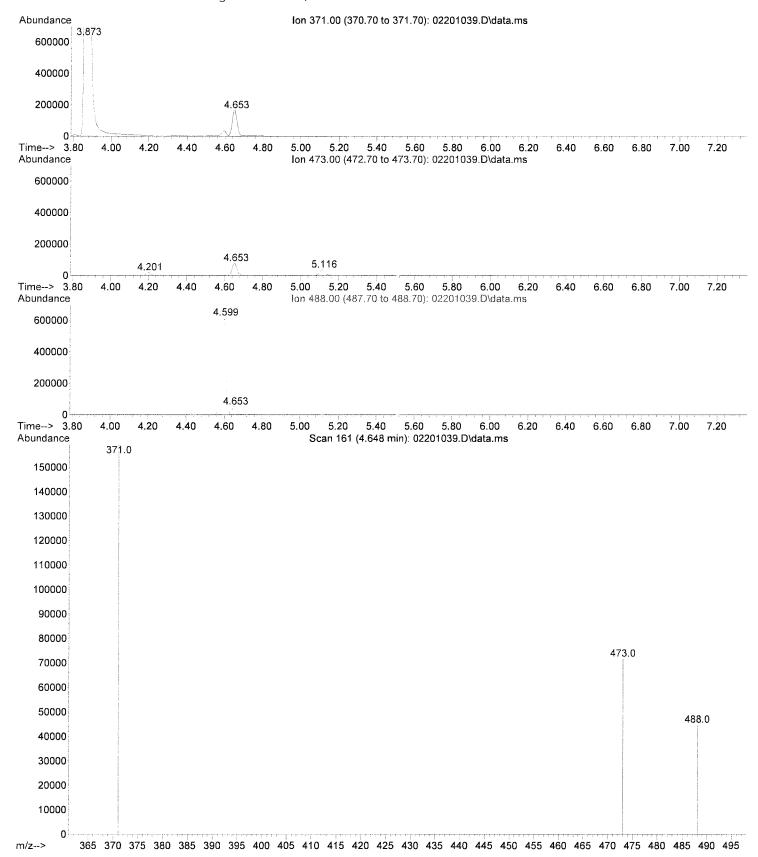
Operator : Instrument 65198

Instrument : Instrument # 65198- Tox Cd'A

Acquired : 06 Jun 2017 23:01 using AcqMethod cthc 101415.M

Sample Name: positive control

Misc Info : FE03121501 in neg lot 42617; am 3





Data Path: I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\

Data File : 02201039.D

Acq On : 06 Jun 2017 23:01 Operator : Instrument 65198 Sample : positive control

Sample : positive control
Misc : FE03121501 in neg lot 42617; am 3

ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing: ON Filtering: 5

Sampling: 1 Min Area: 2 % of largest Peak

Start Thrs: 0.2 Max Peaks: 100 Stop Thrs: 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : C:\msdchem\1\METHODS\DEFAULT.M

Title :

Signal : EIC Ion 371.00 (370.70 to 371.70): 02201039.D\data.ms

peak	R.T.	first	max	last	PΚ	peak	corr.	corr.	% of
#	min	scan	scan	scan	ΤΥ	height	area	% max.	total
1	3.873	9	17	46	rBV	8330639	10968563	100.00%	97.427%
2	4.653	155	162	184	rVB	161415	289639	2.64%	2.573%

Sum of corrected areas: 11258202

Signal : EIC Ion 473.00 (472.70 to 473.70): 02201039.D\data.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of
#	min	scan	scan	scan	ΤY	height	area	% max.	total
1	4.201	68	78	98	rVB	17252	25197	18.69%	10.979%
2	4.653	154	162	181	rVB	76950	134797	100.00%	58.736%
3	5.116	236	248	281	rVB	34992	69504	51.56%	30.285%

Sum of corrected areas: 229498

Signal : EIC Ion 488.00 (487.70 to 488.70): 02201039.D\data.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of
#	min	scan	scan	scan	TY	height	area	% max.	total
1	4.599	140	152	157	rBV	615240	993875	100.00%	91.895%
2	4.653	157	162	172	rVB	48560	87658	8.82%	8.105%
							· management constrained and c	na	

Sum of corrected areas: 1081533

DEFAULT.M Thu Jun 08 11:25:24 2017

A

File :I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\02201

049.D

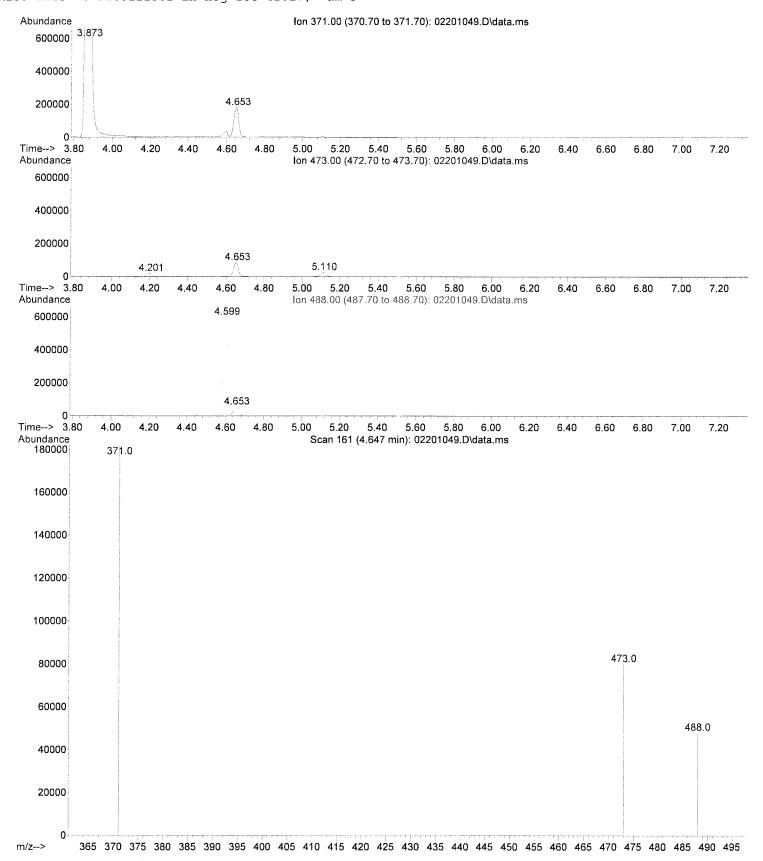
Operator : Instrument 65198

Instrument : Instrument # 65198- Tox Cd'A

Acquired : 07 Jun 2017 00:34 using AcqMethod cthc 101415.M

Sample Name: positive control

Misc Info : FE03121501 in neg lot 42617; am 3





Data Path: I:\Instrument Data\CDA\5977 TOX GCMS CdA\2017\6-6-2017\

Data File : 02201049.D

Acq On : 07 Jun 2017 00:34 Operator : Instrument 65198 Sample : positive control

Sample : positive control
Misc : FE03121501 in neg lot 42617; am 3

ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing: ON Filtering: 5

Sampling: 1 Min Area: 2 % of largest Peak

Start Thrs: 0.2 Max Peaks: 100 Stop Thrs: 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : C:\msdchem\1\METHODS\DEFAULT.M

Title :

Signal : EIC Ion 371.00 (370.70 to 371.70): 02201049.D\data.ms

peak	R.T.	first	max	last	PΚ	peak	corr.	corr.	% of
#	min	scan	scan	scan	ΤY	height	area	% max.	total
1	3.873	8	17	44	rBV	8384628	11538546	100.00%	97.339%
2	4.653	155	162	184	rVB	178809	315415	2.73%	2.661%

Sum of corrected areas: 11853961

Signal : EIC Ion 473.00 (472.70 to 473.70): 02201049.D\data.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of
#	min	scan	scan	scan	TY	height	area	% max.	total
1	4.201	68	78	90	rBV	19568	27497	18.60%	12.232%
2	4.653	154	162	178	rVB	85937	147856	100.00%	65.774%
3	5 110	237	247	259	rVB	25854	49442	33 44%	21 994%

Sum of corrected areas: 224795

Signal : EIC Ion 488.00 (487.70 to 488.70): 02201049.D\data.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of
#	min	scan	scan	scan	ΤΥ	height	area	% max.	total
1	4.599	139	152	157	rBV	676351	1077001	100.00%	92.125%
2	4.653	157	162	171	rVB	53882	92066	8.55%	7.875%

Sum of corrected areas: 1169067

DEFAULT.M Thu Jun 08 11:26:39 2017

