REVIEWED By Sarah Pickle at 10:43 am, Dec 23, 2019

Worklist: 3896

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2019-3507	3	ВСК	AM 27 Blood THC Quant by LC-QQQ
M2019-4718	2	BCK	AM 27 Blood THC Quant by LC-QQQ
M2019-4835	2	BCK	AM 27 Blood THC Quant by LC-QQQ
M2019-5191	1	BCK	AM 27 Blood THC Quant by LC-QQQ
M2019-5282	2	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3530	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3532	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3534	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3592	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3631	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3644	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3645	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2019-3677	1	ВСК	AM 27 Blood THC Quant by LC-QQQ

AM# 27: Quantitation of THC and Metabolites in Blood by LC-MS/MS \checkmark

Extraction Date: 12/19/19 Plate lot#: IDP-108-190716 Analyst: <u>Tamara Salazar</u> Plate Expiration: 01/16/2020

Mobile phase A: 0.1% Formic Acid in LCMS Water MTBE LCMS Methanol Blank Blood Lot: Hemostat 445283-3 LCMS-QQQ ID: 069901 Mobile phase B: 0.1% Formic acid in Acetonitrile Hexane Column: UCT Selectra DA 100 x 2.1mm 3um

Pre-Analytic:

- \boxtimes 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- \boxtimes 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- \boxtimes 3. Create worklist:

<u>Analytic:</u>

- \boxtimes 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette 1000μL blood/urine (calibrated pipette) Pipette ID: 16 in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- ☑ 4. Pipette 500µL 0.1% formic acid in water for blood samples, 500µl saturated phosphate buffer for urine samples in wells of analytical plate.
- \boxtimes 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ⊠ 6. Transfer 800µL of blood+acid mixture to corresponding wells of SLE+ plate.
- Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
 (Load at 85-100 PSI- Selector to the right) Manifold ID: 067104
- \boxtimes 8. Wait 5 minutes.
- 9. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 10. Wait 5 minutes.
- ☑ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 12. Add 2.25mL Hexane. (Add in 3 increments of 750uL)
- \boxtimes 13. Wait 5 minutes.
- ⊠ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID: 067103
- ☑ 16. Reconstitute in 100µL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- \boxtimes 1. Create batch and process data.
 - Worklist path: <u>D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS</u> Batch Name: THCQ TS
- \boxtimes 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² values \ge 0.98 for each analyte
- ☑ 3. RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less). Ion ratios must be within +/- 20% of the averaged calibrators
- ☑ 4. Case sample response for THC and OH-THC 3ng/mL (quantitative), Carboxy-THC: 10ng/mL (qualitative only) will be reported. Samples with a THC or OH-THC response over 50 ng/mL will be reported out as greater than 50 ng/mL.
- $\boxtimes~$ 5. Did all QCs pass for each analyte? Y / N
- \boxtimes 6 Enter QCs into control charting.
- 2 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

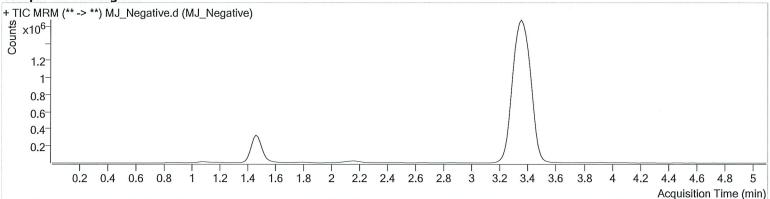
COMMENTS: Curves limited: THC-OH 3-100



Batch resultsD:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.binCalibration Last Update12/23/2019 8:26:42 AM

Instrument	Falco
Type	Sample
Acq. Method	AM 27 THC quant.m
Sample Position	P3-A2
Injection Volume Acq. Date-Time Sample Info.	10 12/19/2019 12:29:08 PM

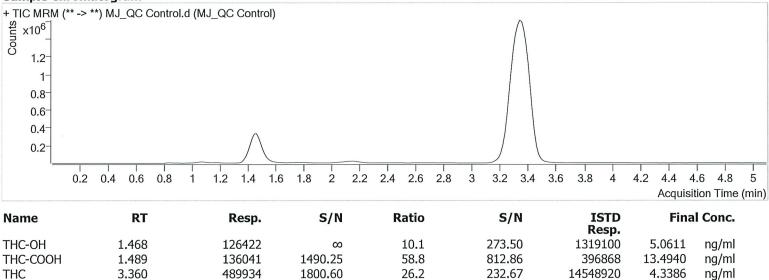
Data File Sample Operator Comment MJ_Negative.d MJ_Negative Tamara Salazar





Batch resultsD:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.binCalibration Last Update12/23/2019 8:26:42 AM

Data File Sample Operator Comment MJ_QC Control.d MJ_QC Control Tamara Salazar





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AM #27 Cannabinoids Quant. Calibration Curve Report

	AM # 27 Cannabinoids Quant. Cal	Ibration Curve	Report	MENSIC SER			
Batch result							
Last Cal. Up							
Analyst Nan	ne ISP\Datastor						
Analyte	THC	Internal Standard	THC-D3				
se x10 ⁻¹	evels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs y = 0.008102 * x - 0.001475 R^2 = 0.99986604 Type:Linear, Origin:Ignore, Weight:1/x						

I	0	10	20	30	40	50	60	70	80 Re	90 elative (100 Concentra	ition
S	Sample		Leve	el	Enabled	c	Expected concentration		I Concent	tration	Accura	су

			Concentration		,
MJ_Cal 1	1	√	1.0	1.1	107.2
MJ_Cal 2	2	√	3.0	2.9	97.4
MJ_Cal 3	3	√	5.0	4.8	96.6
MJ_Cal 4	4	✓	10.0	9.9	99.2
MJ_Cal 5	5	✓	25.0	24.6	98.5
MJ_Cal 6	6	✓	50.0	50.3	100.7
MJ_Cal 7	7	✓	100.0	100.3	100.3



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AM #27 Cannabinoids Quant. Calibration Curve Report

	+27 Ca	annadir	iolas	Qua	<u>int. (</u>		ratio	<u>n cu</u>	irve	керо	In	MENSIC S
Batch results	D:\Mass	sHunter\Data	a\2019\A	AM 27\12	21919 T	HCQ wk	lst 3896	TS\Qu	antResu	ults\THC	Q TS.ba	atch.bin
Last Cal. Update	12/23/2	019 8:26 AN	1									
Analyst Name	ISP\Dat	tastor										
Analyte	THC-CO	НОС				I	nternal	Standa	rd	THC-C	OOH-D	9
$R^{2} = 0$	4581 * x 99961257 hear, Origi	+ 0.011090)		ints Us	ed, 0 G	QCs 160	180	200 F	220 Relative	240 Conce	260 entration
Sample		Level		Enabl	ed	Expe	cted	Final	Concer	ntration	Ac	curacy

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1	1	1	5.0	5.4	108.6
MJ_Cal 2	2	1	10.0	9.1	91.1
MJ_Cal 3	3	1	20.0	20.4	101.8
MJ_Cal 4	4	1	50.0	49.3	98.6
MJ_Cal 5	5	1	75.0	74.1	98.8
MJ_Cal 6	6	1	100.0	100.6	100.6
MJ_Cal 7	7	√	250.0	251.1	100.4



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results Last Cal. Update Analyst Name	D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin 12/23/2019 8:26 AM ISP\Datastor						Q TS.batch.bin
Analyte	THC-OF			Internal	Standard	THC-O	H-D3
$\stackrel{\circ}{=}$ 1.3 $\stackrel{\circ}{=}$ $\hat{R}^2 = 0.$	2991 * x 99815318	+ 0.030093 n:Ignore, Wei	ght:1/x	d, 0 QCs	70 80	90 Relative (100 Concentration
Sample		Level	Enabled	Expected Concentration	Final Conc	entration	Accuracy
MJ_Cal 1		1	×	1.0	0.9)	90.4
MJ_Cal 2		2	√	3.0	24	L	80.6

MJ_Cal 2	2	1	3.0	2.4	80.6
MJ_Cal 3	3	√	5.0	5.6	112.1
MJ_Cal 4	4	√	10.0	10.7	106.7
MJ_Cal 5	5	√	25.0	25.7	102.7
MJ_Cal 6	6	√	50.0	49.3	98.7
MJ_Cal 7	7	√	100.0	99.3	99.3

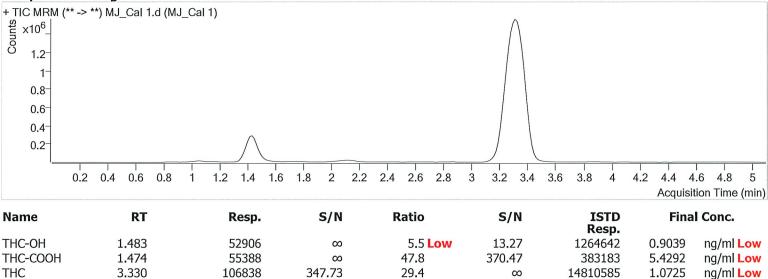


 Batch results
 D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin

 Calibration Last Update
 12/23/2019 8:26:42 AM

Instrument Falco	
Type Cal	
Acq. Method AM 27 THC	quant.m
Sample Position P3-A1	
Injection Volume 10	
Acq. Date-Time 12/19/2019	11:13:10 AM
Sample Info.	

Data File Sample Operator Comment MJ_Cal 1.d MJ_Cal 1 Tamara Salazar



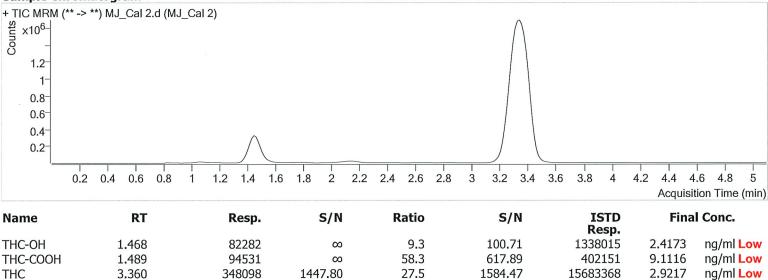


 Batch results
 D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin

 Calibration Last Update
 12/23/2019 8:26:42 AM

Instrument	Falco
Type	Cal
Acq. Method	AM 27 THC quant.m
Sample Position	P3-B1
Injection Volume	10
Acq. Date-Time	12/19/2019 11:20:55 AM
Acq. Date-Time Sample Info.	12/19/2019 11:20:55 AM

Data File Sample Operator Comment MJ_Cal 2.d MJ_Cal 2 Tamara Salazar

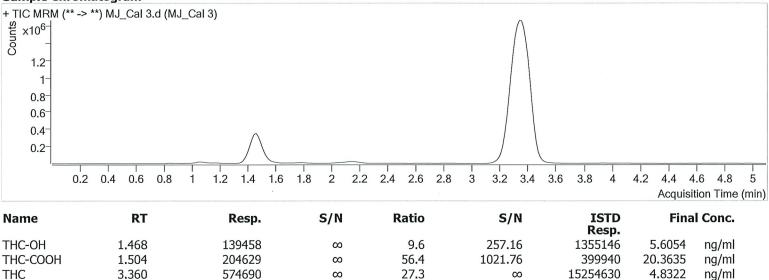




Batch results D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin 12/23/2019 8:26:42 AM

Instrument	Falco
Type	Cal
Acq. Method	AM 27 THC quant.m
Sample Position	P3-C1
Injection Volume	10
Acq. Date-Time	12/19/2019 11:28:29 AM
Acq. Date-Time Sample Info.	12/19/2019 11:28:29 AM

Data File Sample Operator Comment MJ_Cal 3.d MJ_Cal 3 Tamara Salazar



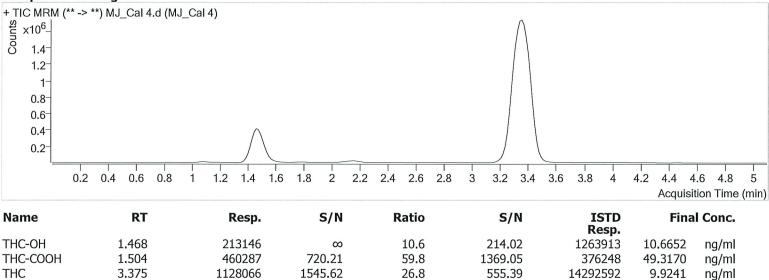


 Batch results
 D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin

 Calibration Last Update
 12/23/2019 8:26:42 AM

Instrument	Falco
Туре	Cal
Acq. Method	AM 27 THC quant.m
Sample Position	P3-D1
Injection Volume	10
Acq. Date-Time	12/19/2019 11:36:03 AM
Sample Info.	

Data File Sample Operator Comment MJ_Cal 4.d MJ_Cal 4 Tamara Salazar



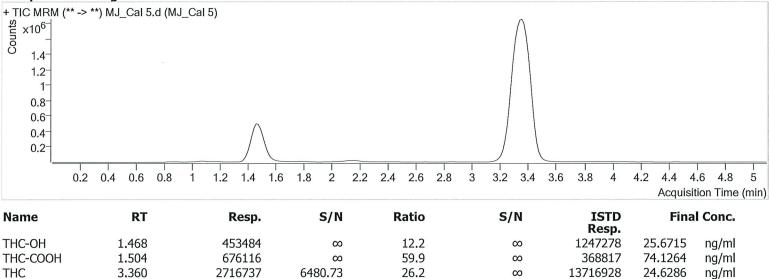


 Batch results
 D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin

 Calibration Last Update
 12/23/2019 8:26:42 AM

Falco
Cal
AM 27 THC quant.m
P3-E1
10
12/19/2019 11:43:38 AM

Data File Sample Operator Comment MJ_Cal 5.d MJ_Cal 5 Tamara Salazar



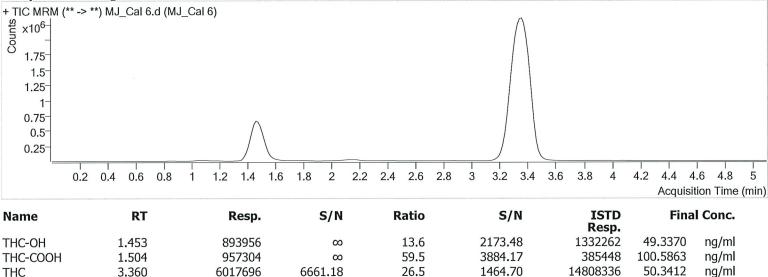


 Batch results
 D:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.bin

 Calibration Last Update
 12/23/2019 8:26:42 AM

Instrument	Falco
Туре	Cal
Acq. Method	AM 27 THC quant.m
Sample Position	P3-F1
Injection Volume	10
Acq. Date-Time	12/19/2019 11:51:12 AM
Sample Info.	

Data File Sample Operator Comment MJ_Cal 6.d MJ_Cal 6 Tamara Salazar





Batch resultsD:\MassHunter\Data\2019\AM 27\121919 THCQ wklst 3896 TS\QuantResults\THCQ TS.batch.binCalibration Last Update12/23/2019 8:26:42 AM

Instrument	Falco
Туре	Cal
Acq. Method	AM 27 THC quant.m
Sample Position	P3-G1
Injection Volume	10
Acq. Date-Time	12/19/2019 11:58:47 AM
Sample Info.	

Data File Sample Operator Comment MJ_Cal 7.d MJ_Cal 7 Tamara Salazar

