## **REVIEWED** By Anne Nord at 11:53 am, Mar 26, 2020

3/25/2020

CS

### Worklist: 4099

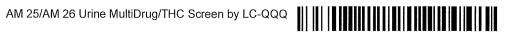
LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
M2019-1518	5	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-0662	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-0722	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-0741	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-0862	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-0865	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-1022	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-1043	8	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0574	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0579	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0580	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0656	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0705	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0706	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0748	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0780	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0801	1	UCK	
P2020-0803	1	UCK	
P2020-0851	1		
		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-0871	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

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### Worklist: 4109

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
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P2020-0498 URINE 4



### **Request for Departure from an Analytical Method**

Date of Request 01/13/2020

Forensic Scientist Celena Shrum

<u>Analytical Methods</u> Toxicology AM #25, Toxicology AM #26/27, and AM #28

#### **Deviation**

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows: \*MDS (batch IDP-107-190725)- Expiration is 1/25/2020 \*THC (batch IDP-108-190716)- Expiration is 1/16/2020 \*MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020 \*MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020 CR

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

Celera, Strucm

Date: 01/13/2020 Celena Shrum Toxicology Discipline Lead

### AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

Extraction Date: <u>03/24/2020</u> Plate Item #: IDP-107 Plate Lot#: 190725

Mobile phase A: 10mM Amm Form

0.5M Ammonium Hydroxide

Blank Blood Lot: Hemostat 445283-3

Blank Urine Lot: POC031319 LCMS-QQQ ID: 069901 Analyst: <u>Tamara Salazar</u> Plate Expiration: 01/25/2020—Ok, deviation in place C

Mobile phase B:0.1% Formic Acid in MeOHEthyl AcetateLC Methanol

Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

### **Pre-Analytic:**

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

### Analytic:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☑ 2. Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL 500mM sodium phosphate buffer. Place plate on shaker for 5 minutes.
- Pipette 250µL blood and urine (if applicable) (calibrated pipette) in wells of analytical (standards) plate.
   Pipette ID: 42
- ⊠ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 067105
- ☑ 4. Pipette 250µL 00.5M ammonium hydroxide in wells of analytical plate.
- $\boxtimes$  5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ⊠ 6. Transfer **300µL of blood+base** or **urine+base** mixture to corresponding wells of SLE+ plate.
- ☑ 7. 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 900uL ethyl acetate.
- $\boxtimes$  10. Wait 5 minutes.
- ☑ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ⊠ 12. Add 900uL ethyl acetate.
- $\boxtimes$  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. If run contains urine, add 50µL 1%HCl in MeOH to wells and place plate cover on plate before drying. SPE Dry ID: 067103
- ☑ 16. Reconstitute in 100µL 100% LC MeOH and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

 $\boxtimes$  1. Open quantitation software and create a new quantitation batch.

Worklist path: D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS Batch Name: AM 25 TS

- $\boxtimes$  2. Make necessary changes to integration limits
- ☑ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater, or 2-5 for discretionary range.
- $\boxtimes\,$  4. Did all QCs pass for each analyte? Y / N  $_{\rm c}$
- S. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Compounds not evaluated: Zopiclone and Pseudoephedrine Due to low internal standard response in some compounds, case samples M2020-1022-3, P2020-0656-1, P2020-0705-1, and P2020-0706-1 were reinjected. C

Meprobamate not evaluated for case sample M2020-0862-2 Norhydrocodone not evaluated for case sample M2020-1022-3, P2020-0656-1. Norbuprenorphine not evaluated for case sample P2020-0580-1.

Due to extenuating circumstances, P2020-0498-4 from worklist 4109 was assigned to Tamara Salazar. Tamara Salazar acted as the primary analyst on the case to open the evidence and perform the necessary extractions. Celena Shrum reviewed all of the data and central files.



# Idaho State Police Forensic Services

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### AM #25 Blood Multi-Drug Screen by LCMS-QQQ And AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

### Methanol External Control Solution (Lot: 031820)

100 µL of 1mg/mL stock was added to each drug to 9700 µL of LC MeOH.

Component	Source	Source Lot Number	Expiration Date	
Methanol (LCMS)	Fisher	193068		
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022	
Amphetamine	Cerilliant	FE04061701	06/30/2022	
Alprazolam	Cerilliant	FE07061604	07/31/2021	
Prepared:	03/18/20			
Prepared By:	Sarah Pickle			
Expires:	03/18/21			

### Blood External Control Solution (Lot: WS031820)

100  $\mu$ L of methanol external control solution was added to 9900  $\mu$ L of blood. Approximately 100 ng/mL of each compound.

Component	Source	Source Lot Number
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031820
Prepared:	03/18/20	
Prepared by:	Sarah Pickl	e
Expires:	03/18/21	



## Idaho State Police Forensic Services

## AM #25 Urine Multi-Drug Screen by LCMS-QQQ And AM #28 Urine Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

### Methanol External Control Solution (Lot: 031820)

100  $\mu$ L of 1mg/mL stock was added to each drug to 9700  $\mu$ L of LC MeOH.

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/18/20		
Prepared By:	Sarah Pickle		
Expires:	03/18/21		

### Urine External Control Solution (Lot: WS031820)

100  $\mu$ L of methanol external control solution was added to 9900  $\mu$ L of urine. Approximately 100 ng/mL of each compound.

Component	Source	Source Lot Number		
Negative Urine	Pocatello Lab	POC031319		
Methanol External Control Solution		031820		
Prepared:	03/23/20			
Prepared by:	Tamara Salazar			
Expires:	Per AM 21 reference materials used for qualitative purposes do not have an expiration date.			

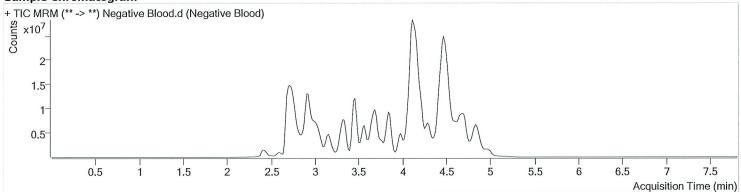


 Batch results
 D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 25 TS.batch.bin

 Calibration Last Update
 3/26/2020 10:59:16 AM

InstrumentFaTypeSaAcq. MethodarSample PositionP5Injection Volume5Acq. Date-Time3/Sample Info.3/

Falco Sample am 25 all.m P5-F12 5 3/24/2020 5:17:47 PM Data File Sample Operator Comment Negative Blood.d Negative Blood Tamara Salazar







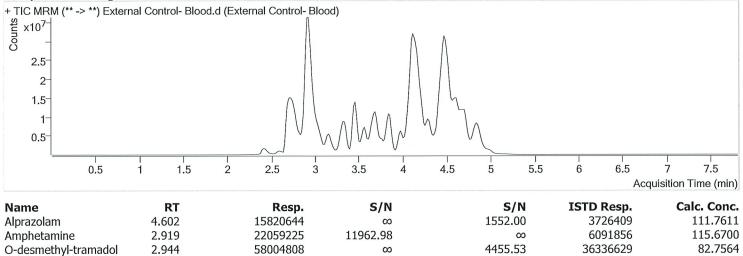
C

**Batch results** 

D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 25 TS.batch.bin Calibration Last Update 3/26/2020 10:59:16 AM

Instrument Type Acq. Method **Sample Position Injection Volume** 5 Acq. Date-Time Sample Info.

Falco Sample am 25 all.m P5-E12 3/24/2020 5:26:07 PM Data File Sample Operator Comment External Control-Blood.d External Control-Blood Tamara Salazar





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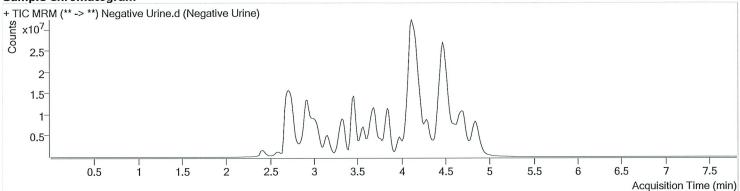
# **AM #25 Multi-Drug Screen Results**

**Batch results** 

D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 25 TS.batch.bin Calibration Last Update 3/26/2020 10:59:16 AM

Instrument Туре Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.

Falco Sample am 25 all.m P5-D12 5 3/24/2020 5:34:27 PM Data File Sample Operator Comment Negative Urine.d Negative Urine Tamara Salazar





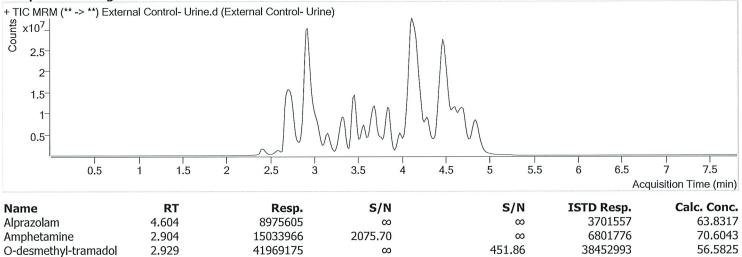


**Batch results** 

D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 25 TS.batch.bin Calibration Last Update 3/26/2020 10:59:16 AM

Instrument Type Acq. Method **Sample Position Injection Volume** 5 Acq. Date-Time Sample Info.

Falco Sample am 25 all.m P5-C12 3/24/2020 5:42:47 PM Data File Sample Operator Comment External Control- Urine.d External Control- Urine Tamara Salazar





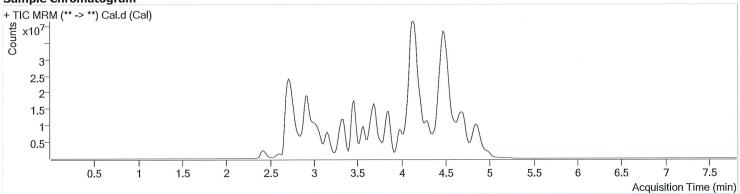
# **AM #25 Multi-Drug Screen Results**

**Batch results** 

D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 25 TS.batch.bin Calibration Last Update 3/26/2020 10:59:16 AM

Instrument Туре Acq. Method Sample Position **Injection Volume** Acq. Date-Time Sample Info.

Falco Cal am 25 all.m P5-H12 5 3/24/2020 5:09:19 PM Data File Sample Operator Comment Cal.d Cal Tamara Salazar



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.043	50597	93.79	13.08	1207235	10.0000
7-aminoclonazepam	3.567	675115	830.89	00	2804095	10.0000
7-aminoflunitrazepam	3.782	1649031	214.28	314.14	10871873	10.0000
Acetyl Fentanyl	4.071	366365	52.56	38262.39	28883580	10.0000
Acetyl Norfentanyl	2.915	293688	59.51	41.08	15050584	10.0000
a-hydroxyalprazolam	4.500	105779	00	32.76	599634	10.0000
alpha-hydroxymidazolam	4.575	978956	330.71	00	6686310	10.0000
alpha-PVP	3.651	729404	66.49	89.78	3654504	10.0000
Alprazolam	4.610	1518530	8	146.83	3997426	10.0000
Amitriptyline	4.569	3666385	8	763.15	9560322	10.0000
Amphetamine	2.919	2271613	1396.29	1194.74	7256285	10.0000
Benzoylecgonine	3.352	871484	302.54	57.05	4458865	10.0000
Buprenorphine	4.953	1048095	00	21129.29	4116498	10.0000
Bupropion	3.880	3713460	14071.41	415.53	10864179	10.0000
Carbamazepine	4.219	4570257	1804.72	706.89	29903123	10.0000
Carisoprodol	4.202	386978	117010.16	27.71	1838918	10.0000
Chlordiazepoxide	4.719	541216	236.50	331.00	14064481	10.0000
Chlorpheniramine	4.030	26013	11.17	00	49713887	10.0000
Citalopram	4.177	2019596	71605.20	108.15	9556892	10.0000
Clonazepam	4.424	728344	2042.82	105866.32	1470280	10.0000
Cocaine	3.657	3619481	760.82	108.04	18536103	10.0000
Codeine	2.955	278278	31054.07	215.10	1416739	10.0000
Cyclobenzaprine	4.492	2941288	1256.33	00	9830005	10.0000
Desipramine	4.493	4430420	00	8	26865627	10.0000
Dextromethorphan	4.201	2050270	102847.35	1879.07	9612056	10.0000
Dextrorphan	3.463	1346891	178.89	280.44	9076349	10.0000
Diazepam	4.828	1721941	561.98	519.08	8162294	10.0000
Dihydrocodeine	2.848	970021	185.16	00	5200739	10.0000
Diphenhydramine	4.110	6481837	8	1087.12	49713887	10.0000
Doxepin	4.291	2231187	8	00	14859691	10.0000
Doxylamine	3.706	7907095	8	122061.38	33853496	10.0000
EDDP	4.153	5202160	4041.33	1917.97	35802282	10.0000
Estazolam	4.520	2658360	388.01	8	8187404	10.0000
Etizolam	4.621	272332	14435.84	599705.50	8187404	10.0000



# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	4.299	308770	42.44	91094.77	21517466	10.0000
Flunitrazepam	4.548	1057736	505.73	422.49	220726	10.0000
Fluoxetine	4.410	3275906	005.75	3321.87	14832380	10.0000
Flurazepam	4.359	3257717	1451598.40	313041.57	220726	10.0000
Hydrocodone	3.183	1102183	98.20	67.31	6942973	10.0000
Hydromorphone	2.623	1029462	0.20	11.56	4257136	10.0000
Imipramine	4.537	5839275	1026.31	00 00	22430297	10.0000
Ketamine	3.726	1377337	99.87	146.27	4938499	10.0000
Lamotrigine	3.632	123868	66.97	140.27	6423235	10.0000
Levamisole	3.084	4156936	00.97	461.89	18536103	10.0000
	4.409	370994	134.34	401.09	1470280	10.0000
Lorazepam	4.569	3862255	134.34	218.27	9560322	10.0000
Maprotiline MDA	3.069	1982770	364.03	20.29	9249096	10.0000
MDA	3.314	4091749	4128.55	708.03	19570401	10.0000
MDEA			6805.82	708.03 ©	3109346	10.0000
	3.161	4711052 1289215	182.86	139.55	6423235	10.0000
Meperidine	3.694			6.39	222032	10.0000
Meprobamate	3.621	33748	14.54			
Methadone	4.471	6323876	817.12	8	29757722	10.0000 10.0000
Methamphetamine	3.040	3394455	416.50	00	17633928	
Methocarbamol	3.541	133531	8	07 00	6423235	10.0000
Methylphenidate	3.573	4927990	00	97.08	25512902	10.0000
Metoprolol	3.477	331281	00	211.70	6423235	10.0000
Midazolam	4.760	795457	00	8	9405084	10.0000
Mirtazapine	4.263	3151624	181692.09	8	6423235	10.0000
Mitragynine	4.373	319988	43029.07	330114.17	14859691	10.0000
Morphine	2.427	182734	381.30	547.51	123162	10.0000
Norbuprenorphine	3.943	39502	212.14	14600.75	196824	10.0000
Nordiazepam	4.677	1107644	00	183.46	3696125	10.0000
Norfentanyl	3.358	5057888	476.65	351.68	24322651	10.0000
Norhydrocodone	3.018	28682	20.22	44.45	1044297	10.0000
Normeperidine	3.650	986232	608.43	00	4084855	10.0000
Noroxycodone	2.955	842891	154.34	42.52	2725436	10.0000
Nortriptyline	4.540	1676906	337.83	378.98	4134119	10.0000
O-desmethyl-tramadol	2.929	8069671	6455.04	182.08	41834816	10.0000
Olanzapine	4.195	665125	00	4.51 <b>Lo</b>		10.0000
Oxazepam	4.490	1265259	258.33	00	8704305	10.0000
Oxycodone	2.998	2139433	00	95.27	8937363	10.0000
Oxymorphone	2.424	1969963	00	495.73	7382561	10.0000
Paroxetine	4.514	260069	37.75	8	8497333	10.0000
Phenazepam	4.636	1210907	49529.10	358534.79	6126107	10.0000
Phencyclidine	4.002	5379717	370.66	475.09	25343991	10.0000
Phentermine	3.178	1026886	00	8.79	12655602	10.0000
Phenytoin	4.095	6667	6.91	7.00	45195	10.0000
Promethazine	4.521	9616002	32754.22	8	38789870	10.0000
Pseudoephedrine	2.719	42060970	00	4691.19	130887925	10.0000
Quetiapine	4.666	3044887	3363.20	1189.10	4245922	10.0000
Sertraline	4.703	1648087	66207.52	8	8497333	10.0000
Sufentanil	4.696	352138	148.78	1925.69	24262426	10.0000
Tapentadol	3.467	2282592	240.83	62275.96	12366193	10.0000
Temazepam	4.657	2573054	174.72	25.97	13788581	10.0000
Tramadol	3.462	7439877	6025.28	54.48	37716699	10.0000
Trazodone	4.879	8240396	11466.20	8	38092992	10.0000
Venlafaxine	3.859	6355133	0	170.98	38547959	10.0000
Zaleplon	4.350	1994360	668.75	473.25	4446303	10.0000
Zolpidem	4.457	9677672	000003	00120	49590759	10.0000
Zopiclone	4.420	264525	97.11	00	1666179	10.0000
Lopiciono	11120	201525	27,111		10001/0	10,0000

### AM# 26: THC and Metabolites Screen in Blood and Urine by LC-MS/MS

15 CR

Extraction Date: 03/24/2020	Analyst: <u>Tamara Salazar</u>
Plate lot# IDP-108-2, 200303	Plate Expiration: 09-03-2020
Mobile phase A:10mM Ammonium Formate0.1% Formic Acid in WaterMTBEBlank Blood Lot:445283-3Blank Urine Lot:POC031319LCMS-QQQ ID:069901	Mobile phase B:0.1% Formic acid in MeOHEHexaneColumn:Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

### **Pre-Analytic:**

- ☑ 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.

### Analytic:

- $\boxtimes$  1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☑ 2. Urine Hydrolysis: add 1.5mL urine to blank plate, add 250ul 1N KOH. Shake and incubate at 40 degrees for 15 minutes.
- 3. Using a calibrated pipette, add 1000 μL blood and urine (if applicable) (calibrated pipette) into the appropriate wells of analytical (standards) plate. Pipette ID: #42
- A. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 067105
- S. Pipette 500 μL 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.
- 8 6. Transfer 800 μL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate.
- Apply positive pressure for approx. 4 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 2.25 mL 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 **2.25 mL 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: D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS Batch Name: AM 26 TS
- ☑ 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- $\boxtimes$  3. Retention time within +/- 2% or +/-.100 min whichever is greater of the average retention time of the calibrators.
- $\boxtimes$  4. Did all QCs pass for each analyte? Y / N
- S. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

CS

### COMMENTS: Only THC-COOH evaluated.

Due to extenuating circumstances, P2020-0498-4 from worklist 4109 was assigned to Tamara Salazar. Tamara Salazar acted as the primary analyst on the case to open the evidence and perform the necessary extractions. Celena Shrum reviewed all of the data and central files.



## **Idaho State Police Forensic Services**

## AM #26 Screening of THC and Metabolites Screen in Blood and Urine by LCMS-QQQ AM #27 Quantitative Analysis of THC and Metabolites in Blood and Urine by LCMS-QQQ

### Methanol External Control Solution (Lot: WS021320)

100 ul of 100 ug/mL C-THC in 9900 ul MeOH

A	pproxi	imate (	concent	ration	lug/	mL.	

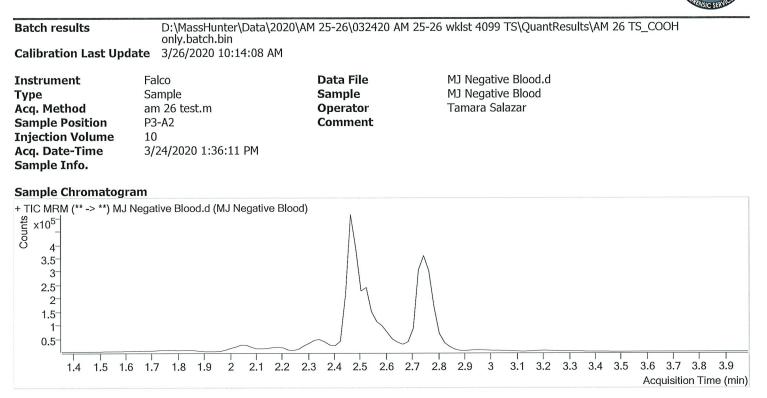
Component	Source	Source Lot Number	Expiration Date	
Methanol (LCMS)	Fisher	193941		
C-THC	Cerilliant	FE07171501	09/30/2020	
Prepared:	02/13/2020			
Prepared By:	Celena Shrum			
Expires:	Per AM 21 reference materials used for qualitative purposes do not have an expiration date.			

### Urine External Control Solution (Lot: 021320)

200 ul of methanol external control solution was added to 9800 ul of urine. Approximately 20ng/mL.

Component	Source	Source Lot Number
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS021320
Prepared:	02/13/2020	
Prepared by:	Celena Shrum	
Expires:	09/30/2020	





CS



Batch results	D:\MassHunter\Data\ only.batch.bin	2020\AM 25-26\0324
Calibration Last Upda		AM
Instrument	Falco	Data File
Туре	Sample	Sample
Acq. Method	am 26 test.m	Operator
Sample Position	P3-H1	Comment

3/24/2020 1:23:08 PM

10

assHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 26 TS\_COOH patch.bin

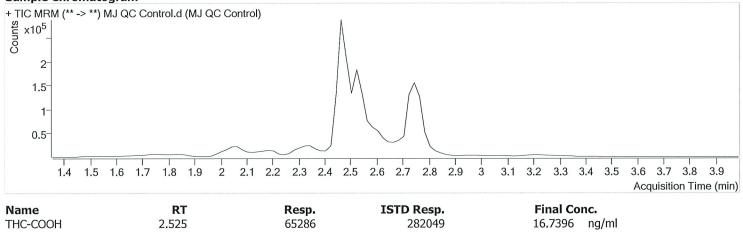
MJ QC Control.d

MJ QC Control Tamara Salazar

Sample Chromatogram

**Injection Volume** 

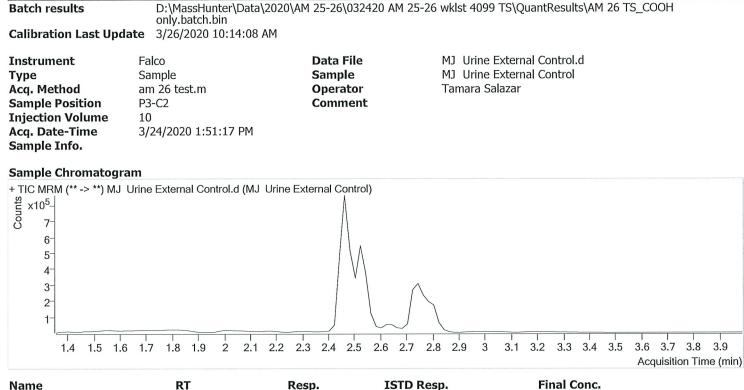
Acq. Date-Time Sample Info.





	D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 26 TS_COOH only.batch.bin			
Calibration Last Update	3/26/2020 10:14:08 AM			
TypeSaAcq. MethodanSample PositionP3Injection Volume10	lco Imple n 26 test.m I-B2 I 24/2020 1:44:36 PM	Data File Sample Operator Comment	MJ Negative Urine.d MJ Negative Urine Tamara Salazar	
ample Chromatogram TIC MRM (** -> **) MJ Negat S ×10 <sup>5</sup> - O 3.5-	tive Urine.d (MJ Negative Urine)	٨		





THC-COOH

RT 2.525

308506

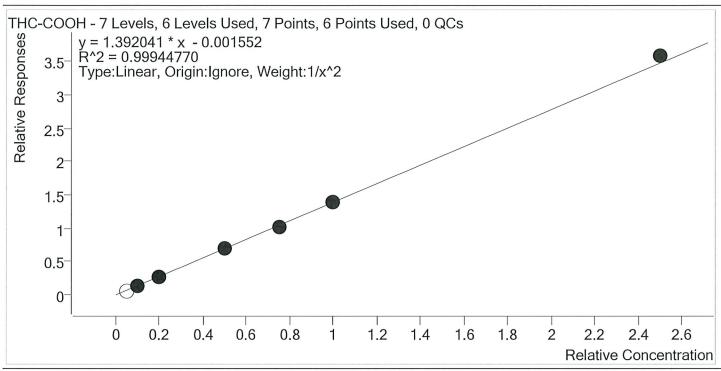
667863

Final Conc. 33.2952 ng/ml



## AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 25-26\032420 A TS_COOH only.batch.bin	M 25-26 wklst 4099 TS\Qu	antResults\AM 26
Last Cal. Update	3/26/2020 10:14 AM		
Analyst Name	ISP\datastor		
Analyte	THC-COOH	Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	×	5.0	4.3	85.5
MJ Cal 2	2	√	10.0	10.0	100.2
MJ Cal 3	3	√	20.0	20.1	100.3
MJ Cal 4	4	√	50.0	49.8	99.6
MJ Cal 5	5	√	75.0	73.1	97.4
MJ Cal 6	6	√	100.0	99.4	99.4
MJ Cal 7	7	√	250.0	257.7	103.1



**Batch results** D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 26 TS\_COOH only.batch.bin Calibration Last Update 3/26/2020 10:14:08 AM Instrument Falco Data File MJ Cal 1.d MJ Cal 1 Type Cal Sample Operator Tamara Salazar Acq. Method am 26 test.m Sample Position Comment P3-A1 **Injection Volume** 10 Acq. Date-Time 3/24/2020 12:37:22 PM Sample Info. Sample Chromatogram + TIC MRM (\*\* -> \*\*) MJ Cal 1.d (MJ Cal 1) Counts x10<sup>5</sup> 3.5 3 2.5 2 1.5 1 0.5 2.9 3.3 3.4 3.5 3.6 3.7 3.8 3.9 1.5 1.6 1.7 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 1.4 Acquisition Time (min) Name RT Resp. **ISTD Resp.** Final Conc. THC-COOH 436381 4.2738 ng/ml 2.545 25284 Low



Batch results	D:\MassHunter\Data\20 only.batch.bin	20\AM 25-26\032420 AM	25-26 wklst 4099 TS\QuantResults\AN	1 26 TS_COOH
Calibration Last Upda	te 3/26/2020 10:14:08 AM			
Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	Falco Cal am 26 test.m P3-B1 10 3/24/2020 12:44:04 PM	Data File Sample Operator Comment	MJ Cal 2.d MJ Cal 2 Tamara Salazar	
Sample Chromatogra	m			
+ TIC MRM (** -> **) MJ C \$\$ 2- 1.75- 1.25- 1.25- 1- 0.75- 0.25-	al 2.d (MJ Cal 2)			

				Acquisition Time (min)
<b>Name</b>	<b>RT</b>	<b>Resp.</b>	<b>ISTD Resp.</b>	Final Conc.
THC-COOH	2.545	42259	306356	10.0209 ng/ml

2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9

1.4 1.5 1.6 1.7 1.8 1.9

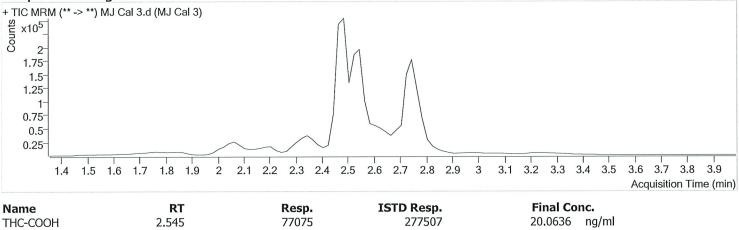
**Batch results** 

D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 26 TS\_COOH only.batch.bin

Calibration Last Update 3/26/2020 10:14:08 AM

InstrumentFalcoTypeCalAcq. Methodam 26 test.mSample PositionP3-C1Injection Volume10Acq. Date-Time3/24/2020 12:50:36 PMSample Info.Sample Info.

Data File Sample Operator Comment MJ Cal 3.d MJ Cal 3 Tamara Salazar



Data File

Operator Comment

Sample



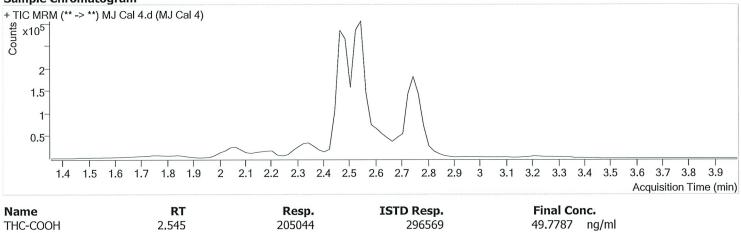
Batch results

D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 26 TS\_COOH only.batch.bin

Calibration Last Update 3/26/2020 10:14:08 AM

Instrument	Falco
Туре	Cal
Acq. Method	am 26 test.m
Sample Position	P3-D1
Injection Volume	10
Acq. Date-Time	3/24/2020 12:57:06 PM
Sample Info.	

MJ Cal 4.d MJ Cal 4 Tamara Salazar

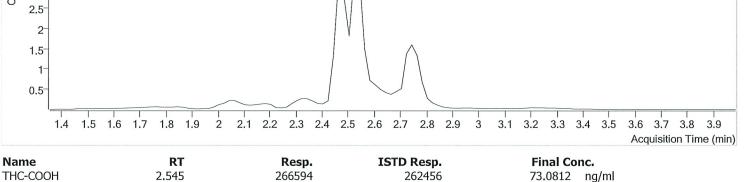




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Batch results	only.batch.bin	0\AM 25-26\032420 AM	25-26 wklst 4099 TS\QuantResults\AM 26 TS_COOH	
Calibration Last Upda	ate 3/26/2020 10:14:08 AM			
Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	Falco Cal am 26 test.m P3-E1 10 3/24/2020 1:03:38 PM	Data File Sample Operator Comment	MJ Cal 5.d MJ Cal 5 Tamara Salazar	
Sample Chromatogra	m			
+ TIC MRM (** -> **) MJ C \$\$\$ \$\$ 2.5- 2-	Cal 5.d (MJ Cal 5)	$\bigwedge$		





**Batch results** D:\MassHunter\Data\2020\AM 25-26\032420 AM 25-26 wklst 4099 TS\QuantResults\AM 26 TS\_COOH only.batch.bin Calibration Last Update 3/26/2020 10:14:08 AM Instrument Falco Data File MJ Cal 6.d Sample MJ Cal 6 Туре Cal am 26 test.m Operator Tamara Salazar Acq. Method **Sample Position** Comment P3-F1 **Injection Volume** 10 Acq. Date-Time 3/24/2020 1:10:08 PM Sample Info. Sample Chromatogram + TIC MRM (\*\* -> \*\*) MJ Cal 6.d (MJ Cal 6) stuno O 4-3.5 3- $2.5^{-1}$ 2 1.5 1 0.5 2.3 2.8 2.9 2.4 2.5 2.6 2.7 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 1.5 1.6 1.7 1.8 1.9 2 2.1 2.2 3 1.4 Acquisition Time (min) **Final Conc.** Name RT Resp. **ISTD Resp.** 388786 281352 99.3795 ng/ml THC-COOH 2.525





