






Worklist: 4047

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0573	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-0645	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-0675	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-0754	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-0798	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0372	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0393	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0407	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0473	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0602	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0612	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0641	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0642	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0646	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0667	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0672	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0673	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0674	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0675	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0691	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0707	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

**Worklist: 4047**

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<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2020-0708	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0709	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0749	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0755	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0755	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

**Idaho State Police  
Forensic Services  
Toxicology Discipline**

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**Request for Departure from an Analytical Method**

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Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

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

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.

*Celena Shrum*

Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead

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

Extraction Date: 03/04/20  
 Plate lot#: IDP-107-190725

Analyst: Sarah Pickle  
 Plate Expiration: 01/25/2020

**Mobile phase A:** 10mM Amm Form  
 0.5M Ammonium Hydroxide  
**Blank Blood Lot:** Hemostat 445283-3  
**LCMS-QQQ ID:** 069901

**Mobile phase B:** 0.1% Formic Acid in MeOH  
 Ethyl Acetate LC 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. Pipette **250 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: #16**
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer **300 µL of blood+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*
- 8. Wait 5 minutes.
- 9. Add **900 µL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 12. Add **900 µL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 10-15 seconds. *(12-15 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 **100 µL 100% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.  
 Batch Name: AM 25 Worklist path: D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP
- 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.
- 4. Did all QCs pass for each analyte? Y / N \_\_\_\_\_
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:





# Idaho State Police Forensic Services

## 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: 031319)

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

*\*Made for the AM 28 urine validation*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/13/19		
Prepared By:	Tamara Salazar		
Expires:	03/13/2020		

### Blood External Control Solution (Lot: WS010820)

*100 ul of methanol external control solution was added to 9900 ul of blood.*

*Approximately 100ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031319
Prepared:	01/08/2020	
Prepared by:	Tamara Salazar	
Expires:	03/13/2020	

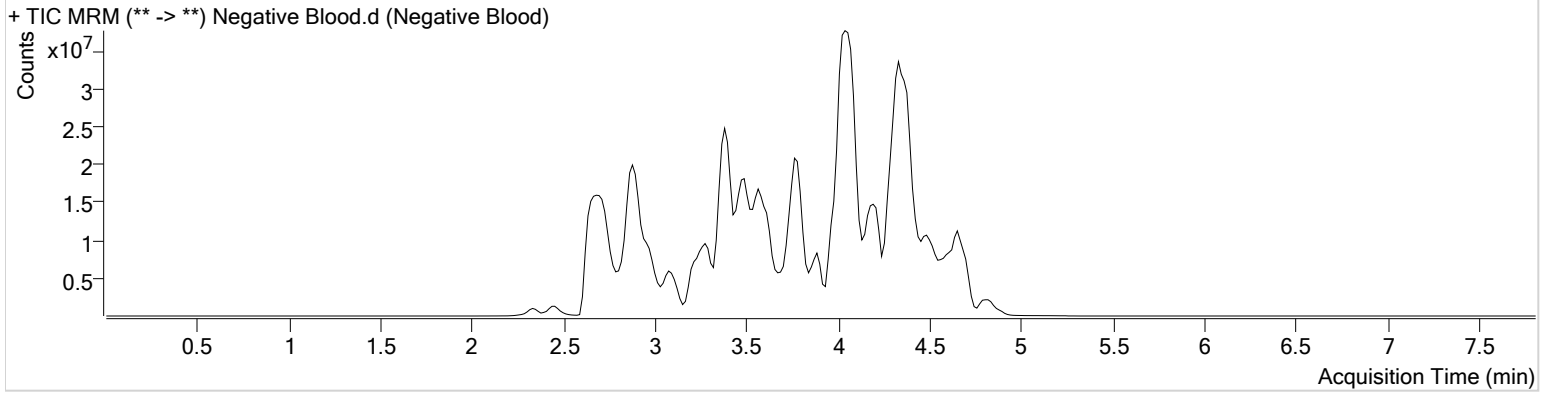
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 3/5/2020 8:55:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	Negative Blood
<b>Acq. Method</b>	am 25 all.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-C1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	3/4/2020 4:58:18 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



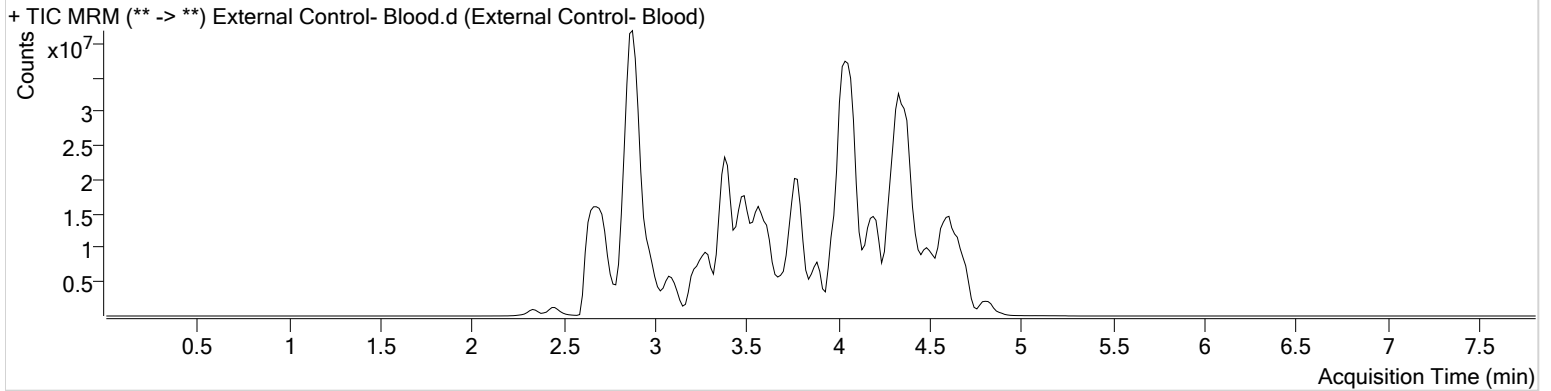
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 3/5/2020 8:55:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	External Control- Blood.d
<b>Type</b>	Sample	<b>Sample</b>	External Control- Blood
<b>Acq. Method</b>	am 25 all.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-D1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	3/4/2020 5:06:36 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.610	19507915	∞	∞	5206363	110.0437
Amphetamine	2.858	28617075	6555.73	7787.51	7638921	112.7918
O-desmethyl-tramadol	2.898	60858581	∞	2849.10	43047855	67.6677

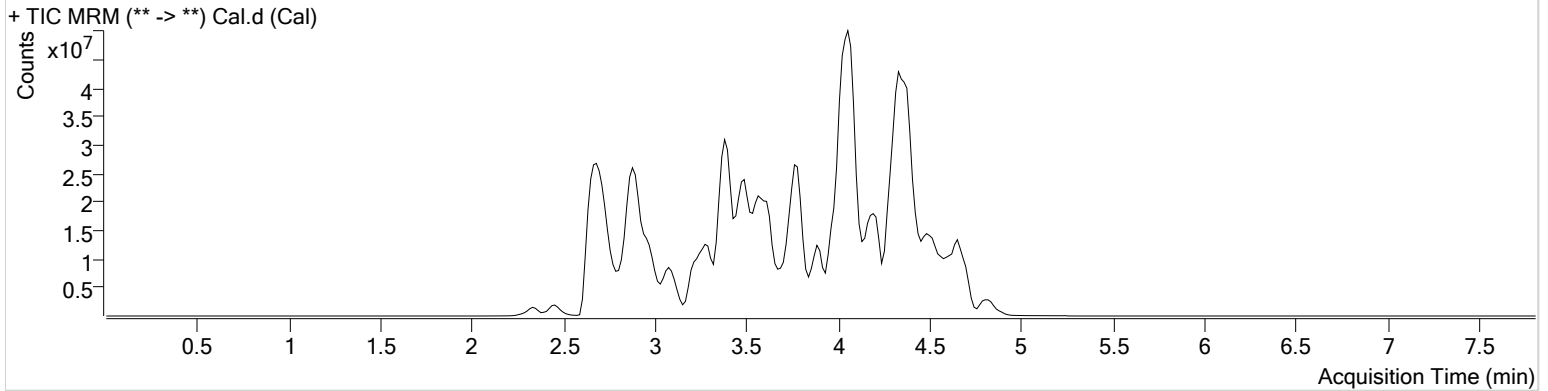
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 3/5/2020 8:55:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	Cal.d
<b>Type</b>	Cal	<b>Sample</b>	Cal
<b>Acq. Method</b>	am 25 all.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-A1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	3/4/2020 4:49:48 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.890	61844	334.53	228.03	1481349	10.0000
7-aminoclonazepam	3.567	1277868	∞	145.23	5031943	10.0000
7-aminoflunitrazepam	3.782	2767764	158.70	177.29	18822820	10.0000
Acetyl Fentanyl	3.809	555696	137.54	198671.07	37914466	10.0000
Acetyl Norfentanyl	2.869	396367	180.33	192.66	19417507	10.0000
a-hydroxyalprazolam	4.500	264360	479.40	1544.71	1394647	10.0000
alpha-hydroxymidazolam	4.560	1451247	17742.92	∞	9467858	10.0000
alpha-PVP	3.497	5763453	5685.26	1059.47	27417369	10.0000
Alprazolam	4.610	1983078	∞	256.16	5824096	10.0000
Amitriptyline	4.415	5212097	491.27	114.13	12017214	10.0000
Amphetamine	2.858	3057873	1570.28	1005.07	9206692	10.0000
Benzoylcegonine	3.352	1189905	3740853.96	883.92	6004635	10.0000
Buprenorphine	4.281	834649	814276.21	119.92	3938012	10.0000
Bupropion	3.711	6112438	∞	∞	19970802	10.0000
Carbamazepine	4.219	10488071	409.40	4610.63	55377541	10.0000
Carisoprodol	4.202	1470534	395.69	1279.31	7465795	10.0000
Chlordiazepoxide	4.704	709979	418.67	∞	19213340	10.0000
Chlorpheniramine	3.922	32835	109.27	9302.20	62024383	10.0000
Citalopram	4.055	3017830	442.23	91.34	13778422	10.0000
Clonazepam	4.440	1464767	2258.63	47091.63	2507366	10.0000
Cocaine	3.550	6255250	26040.01	512.52	30042418	10.0000
Codeine	2.788	442806	706.91	∞	2163054	10.0000
Cyclobenzaprine	4.339	3461289	∞	∞	12467017	10.0000
Desipramine	4.386	5719450	∞	∞	33253375	10.0000
Dextromethorphan	4.062	2071823	2052.37	5562.03	9741616	10.0000
Dextrorphan	3.370	2802552	279890.60	573006.31	18661126	10.0000
Diazepam	4.829	1898298	∞	200.13	9251908	10.0000
Dihydrocodeine	2.741	1123330	463.63	2339.20	5710150	10.0000
Diphenhydramine	4.001	10958757	457.93	643.99	62024383	10.0000
Doxepin	4.137	2980758	7979.11	149.10	18554791	10.0000
Doxylamine	3.630	12792778	∞	∞	49566145	10.0000
EDDP	4.061	4682022	199518.17	531.78	33270171	10.0000
Estazolam	4.509	6276023	975.19	3144.38	19391006	10.0000
Etizolam	4.621	302670	78887.27	59457.32	19391006	10.0000

Cal

# AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	4.023	307036	151.01	23506.18	21156315	10.0000
Flunitrazepam	4.548	2485072	307424.19	17405.20	585525	10.0000
Fluoxetine	4.319	3801484	767.27	76.94	17060471	10.0000
Flurazepam	4.129	3290584	584477.15	92280.28	585525	10.0000
Hydrocodone	2.986	1599459	196.85	176.30	11141894	10.0000
Hydromorphone	2.458	1357582	∞	∞	5150691	10.0000
Imipramine	4.381	7003909	∞	∞	27235257	10.0000
Ketamine	3.388	4345373	∞	∞	21055899	10.0000
Lamotrigine	3.524	306966	52.51	14172.09	13482673	10.0000
Levamisole	2.931	4419788	∞	2768.32	30042418	10.0000
Lorazepam	4.424	494554	238.11	192.23	2507366	10.0000
Maprotiline	4.415	5256759	40.66	346.08	12017214	10.0000
MDA	2.993	2820908	∞	379.09	13080097	10.0000
MDEA	3.237	5841203	∞	6063.66	27856385	10.0000
MDMA	3.084	6568017	453.70	201.91	4526191	10.0000
Meperidine	3.571	2711146	∞	175092.67	13482673	10.0000
Meprobamate	3.636	555303	448.38	352.32	2345919	10.0000
Methadone	4.380	7958679	402590.20	575.71	35128848	10.0000
Methamphetamine	2.964	2911174	5.98	∞	18329166	10.0000
Methocarbamol	3.526	462593	∞	∞	13482673	10.0000
Methylphenidate	3.496	12093941	∞	∞	50883754	10.0000
Metoprolol	3.416	731959	518.46	274.77	13482673	10.0000
Midazolam	4.715	862945	∞	199484.43	10162805	10.0000
Mirtazapine	3.784	4114191	12844.65	413660.06	13482673	10.0000
Mitragynine	4.159	411882	646351.80	882140.38	18554791	10.0000
Morphine	2.292	233353	∞	∞	146264	10.0000
Norbuprenorphine	3.836	95262	2168.78	197.23	484736	10.0000
Nordiazepam	4.677	1603561	∞	38.38	5440757	10.0000
Norfentanyl	3.297	8494381	2413693.49	629.22	36906876	10.0000
Norhydrocodone	2.927	26074	∞	17.60	1201195	10.0000
Normeperidine	3.589	2006173	151.54	∞	7373652	10.0000
Noroxycodone	2.879	1262860	∞	120.45	4060854	10.0000
Nortriptyline	4.417	2527050	3038724.03	3202.30	6093532	10.0000
O-desmethyl-tramadol	2.883	9918229	∞	1112.91	47472850	10.0000
Olanzapine	3.902	1127422	21.78	22.06	535693	10.0000
Oxazepam	4.490	3164127	761.20	321.89	20574978	10.0000
Oxycodone	2.892	2828998	401.63	453.84	13138721	10.0000
Oxymorphone	2.333	1274978	377.42	671.20	4604628	10.0000
Paroxetine	4.361	438659	199823.36	6862.36	12130096	10.0000
Phenazepam	4.636	1969263	96690.82	1178.33	9719533	10.0000
Phencyclidine	3.910	6694002	792472.65	311.39	30811149	10.0000
Phentermine	3.116	1436196	∞	13.07	18374231	10.0000
Phenytoin	4.110	114206	54.37	69.46	535693	10.0000
Promethazine	4.321	11151698	4161.47	∞	43608944	10.0000
Pseudoephedrine	2.696	53999272	12396.65	∞	140049128	10.0000
Quetiapine	4.328	2859597	235636.28	135.73	4540676	10.0000
Sertraline	4.549	2449996	77016.27	65550.88	12130096	10.0000
Sufentanil	4.328	304792	202.13	102.12	22738937	10.0000
Tapentadol	3.421	4840272	2484.35	523.91	26269460	10.0000
Temazepam	4.658	3920718	∞	276.57	20637128	10.0000
Tramadol	3.401	12247643	∞	396.66	51015196	10.0000
Trazodone	4.359	5682130	∞	∞	26265168	10.0000
Venlafaxine	3.769	8956144	11166.06	827.03	49710327	10.0000
Zaleplon	4.335	1926569	∞	259.25	4625105	10.0000
Zolpidem	4.088	7864423	∞	186.78	38977005	10.0000
Zopiclone	3.944	570232	189694.07	135.59	3098896	10.0000

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

Extraction Date: 03/04/20

Analyst: Sarah Pickle

Plate lot#: IDP-108-190716

Plate Expiration: 01/16/20

**Mobile phase A:** 10mM Ammonium Formate  
0.1% Formic Acid in Water

**Mobile phase B:** 0.1% Formic acid in MeOH  
MTBE Hexane

**Blank Blood Lot:** Hemostat 445283-3

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

**LCMS-QQ ID:** 069901

### 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. Pipette **1000 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: 3382167**
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **500 µL 0.1% formic acid** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer **800 µL of blood+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
- 8. Wait 5 minutes.
- 9. Add **2.25 mL MTBE** (add in 3 increments of 750 µL).
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. **(12-15 PSI- Selector to the left).**
- 12. Add **2.25 mL hexane** (add in 3 increments of 750 µL).
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 10-15 seconds. **(12-15 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 **100 µL 100% LCMS MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Create batch and process data.

Worklist path: D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP

Batch Name: AM 26

- 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.
- 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
- 4. Did all QCs pass for each analyte? Y / N
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:



# Idaho State Police Forensic Services

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

**Methanol External Control Solution (Lot: WS011620)**

*10 µL of 1mg/mL THC, 100 µL of 100 µg/mL THC-OH, C-THC in 9790 µL MeOH  
Approximate concentration 1µg/mL.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193941	
THC	Cerilliant	FE09101501	11/30/2020
C-THC	Cerilliant	FE07171501	09/30/2020
THC-OH	Cerilliant	FE07221601	07/31/2021
Prepared:	01/16/2020		
Prepared By:	Tamara Salazar		
Expires:	09/30/2020		

**Blood External Control Solution (Lot: 021320)**

*200 µL of methanol external control solution was added to 9800 µL of blood.  
Approximately 20 ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution	-	WS011620
Prepared:	02/13/2020	
Prepared by:	Celena Shrum	
Expires:	09/30/2020	

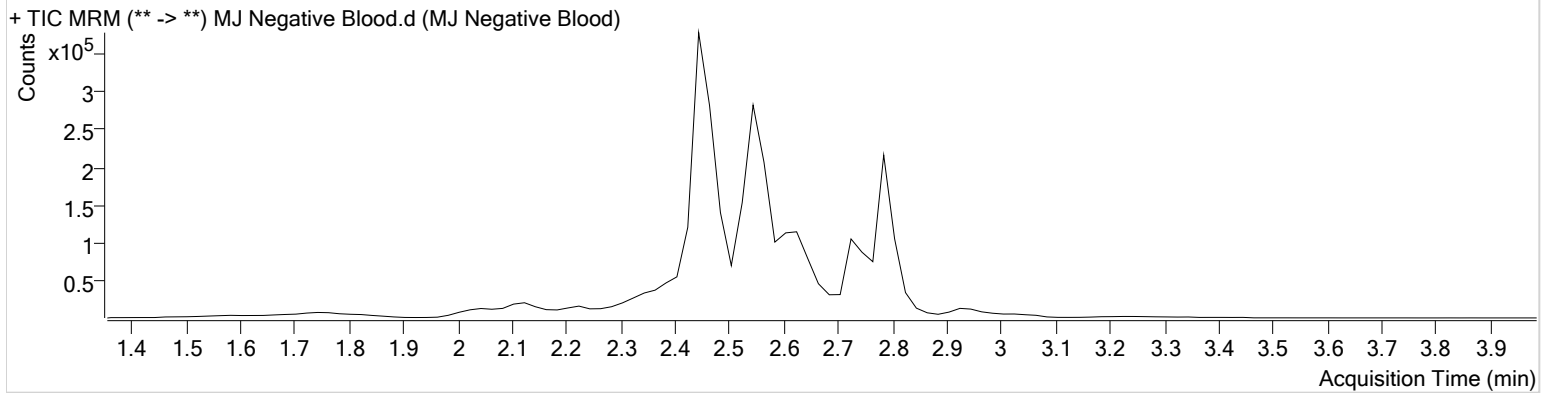
# AM #26 Cannabinoids Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	MJ Negative Blood
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-A2	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 1:21:52 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





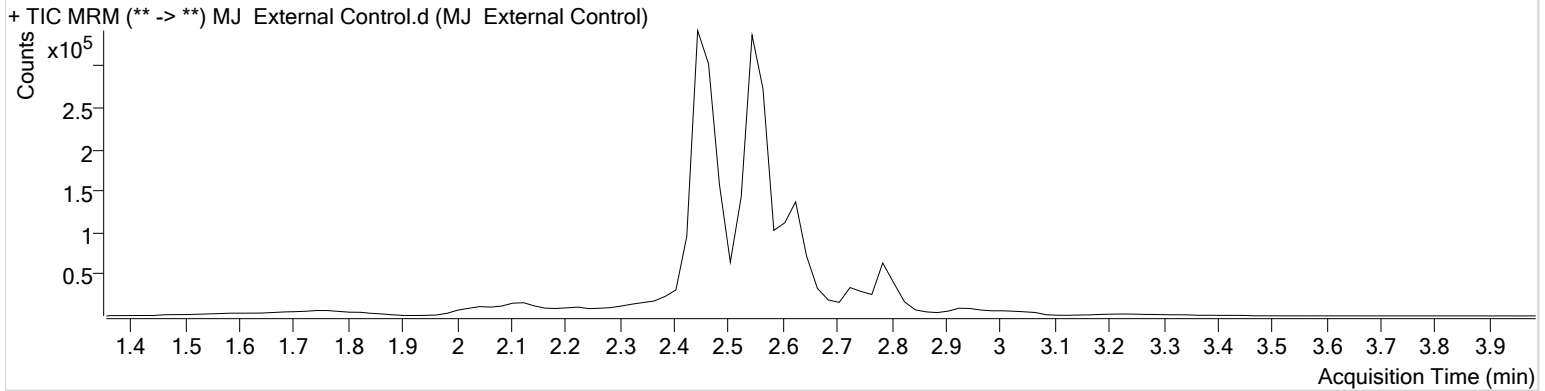
# AM #26 Cannabinoids Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ External Control.d
<b>Type</b>	Sample	<b>Sample</b>	MJ External Control
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-B2	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 1:28:25 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	11020	95077	15.7456 ng/ml
THC-COOH	2.565	129057	447983	17.0569 ng/ml
THC-OH	2.471	189131	869628	18.5470 ng/ml

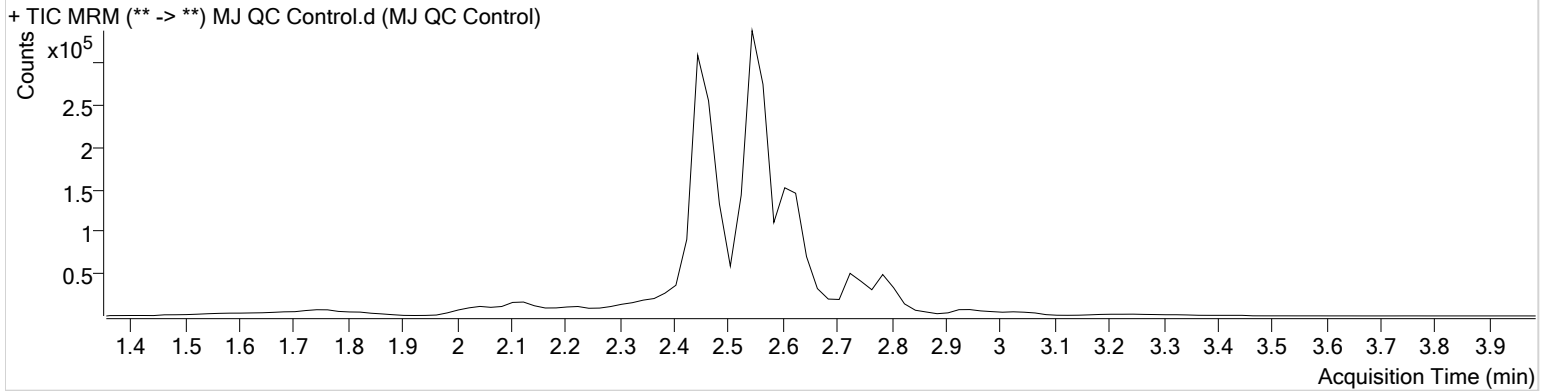
# AM #26 Cannabinoids Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ QC Control.d
<b>Type</b>	Sample	<b>Sample</b>	MJ QC Control
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 1:08:48 PM		

## Sample Chromatogram



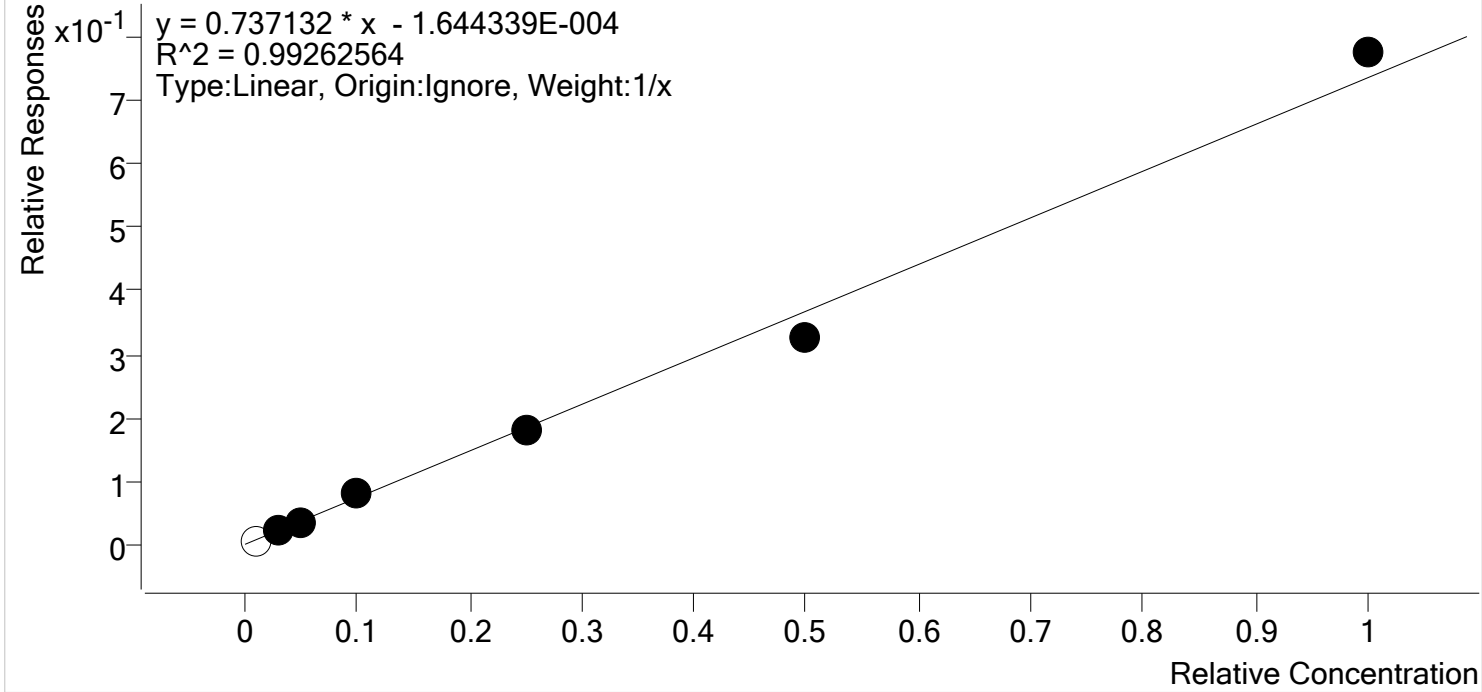
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	2147	82288	3.5615 ng/ml
THC-COOH	2.565	117510	425103	16.4097 ng/ml
THC-OH	2.451	39376	843217	4.5950 ng/ml



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 3/5/2020 7:51 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

THC - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs

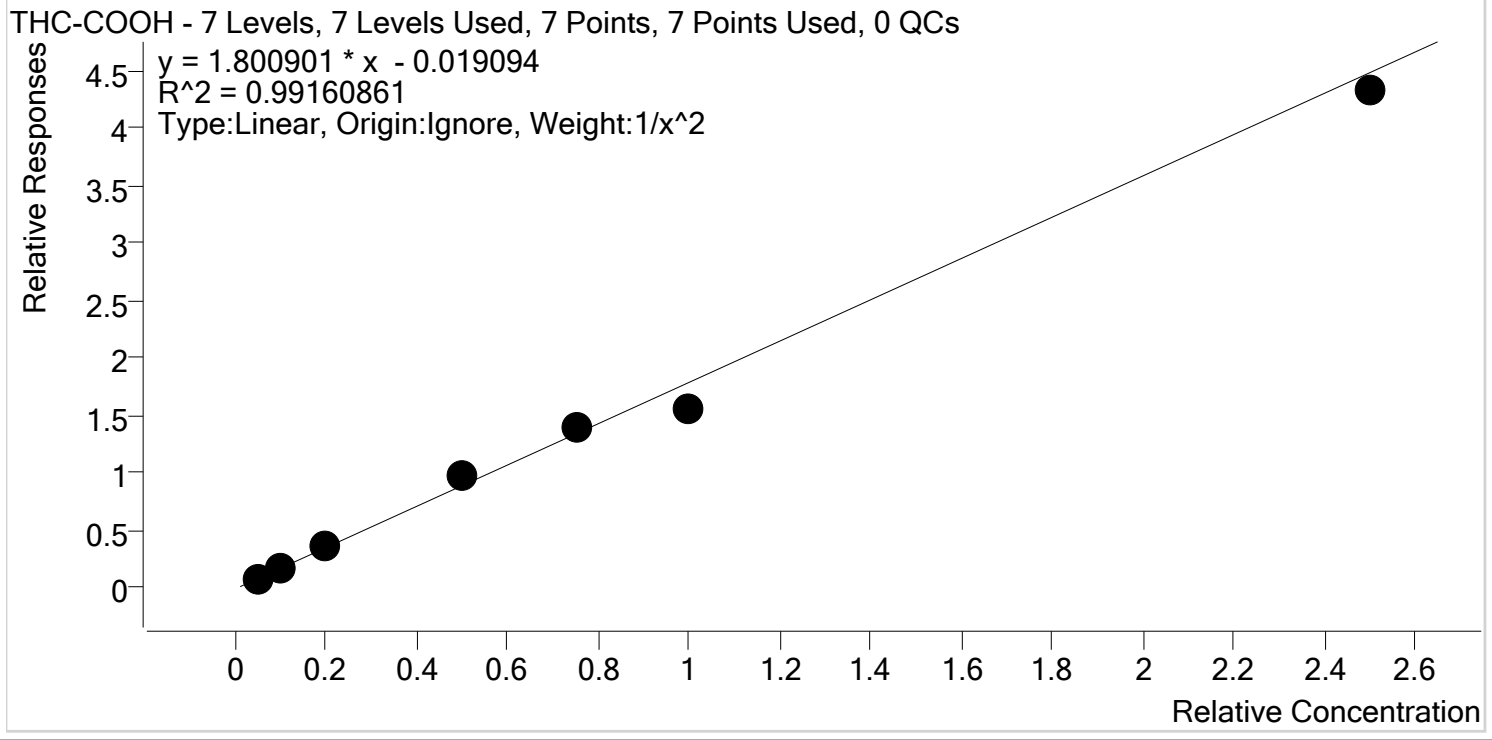


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	0.8	79.5
MJ Cal 2	2	✓	3.0	3.4	113.5
MJ Cal 3	3	✓	5.0	4.3	86.7
MJ Cal 4	4	✓	10.0	10.7	106.8
MJ Cal 5	5	✓	25.0	24.6	98.2
MJ Cal 6	6	✓	50.0	44.7	89.3
MJ Cal 7	7	✓	100.0	105.4	105.4



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 3/5/2020 7:51 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

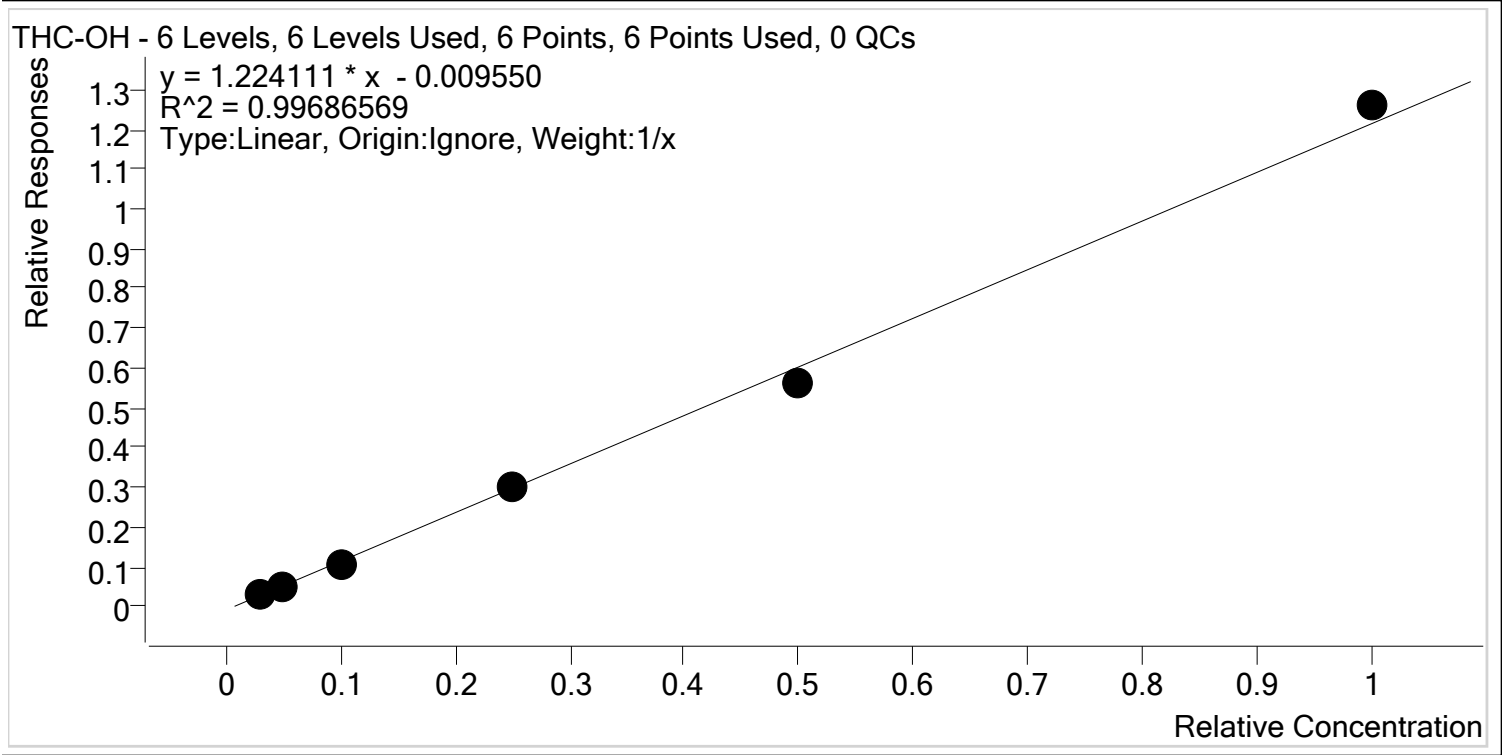


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	4.9	98.2
MJ Cal 2	2	✓	10.0	10.0	100.4
MJ Cal 3	3	✓	20.0	20.9	104.4
MJ Cal 4	4	✓	50.0	55.3	110.5
MJ Cal 5	5	✓	75.0	77.7	103.5
MJ Cal 6	6	✓	100.0	86.5	86.5
MJ Cal 7	7	✓	250.0	241.2	96.5



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 3/5/2020 7:51 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 2	2	✓	3.0	3.4	112.6
MJ Cal 3	3	✓	5.0	4.9	98.1
MJ Cal 4	4	✓	10.0	9.2	92.0
MJ Cal 5	5	✓	25.0	25.0	100.0
MJ Cal 6	6	✓	50.0	46.9	93.7
MJ Cal 7	7	✓	100.0	103.7	103.7

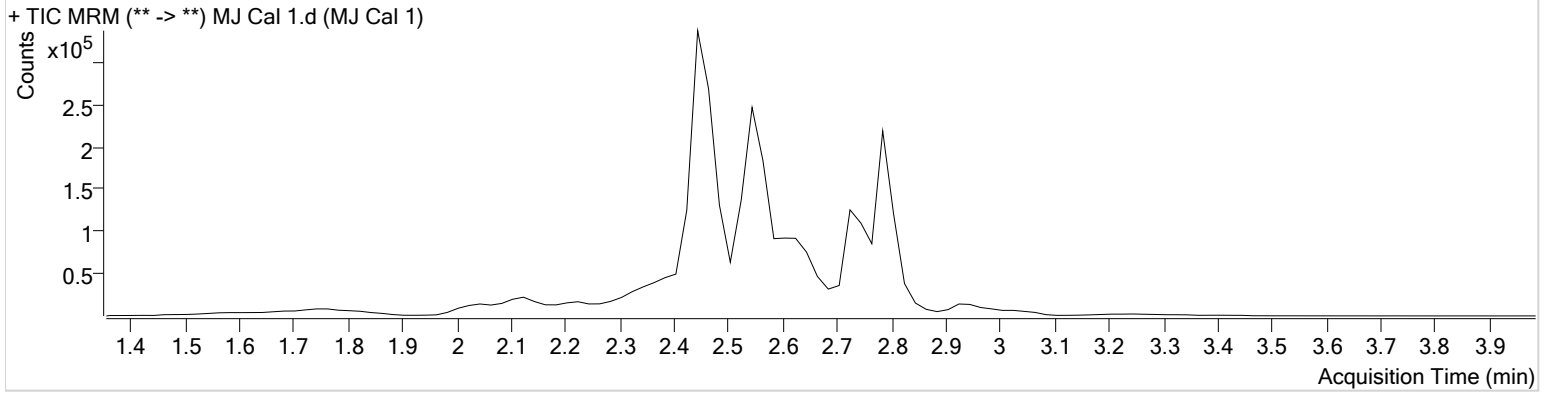
# AM #26 Cannabinoids Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 1
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-A1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 12:22:55 PM		

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	2116	371399	0.7950 ng/ml	Low
THC-COOH	2.565	26052	375955	4.9080 ng/ml	Low

# AM #26 Cannabinoids Screen Results

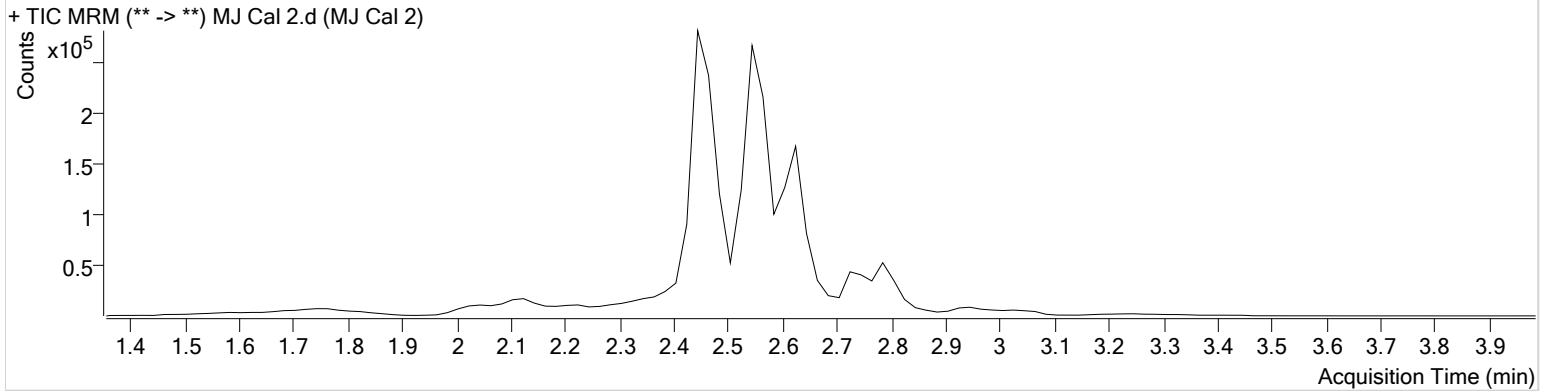


**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 2
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-B1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 12:29:35 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	1818	72870	3.4065 ng/ml
THC-COOH	2.565	61265	378790	10.0413 ng/ml
THC-OH	2.451	26359	829306	3.3767 ng/ml

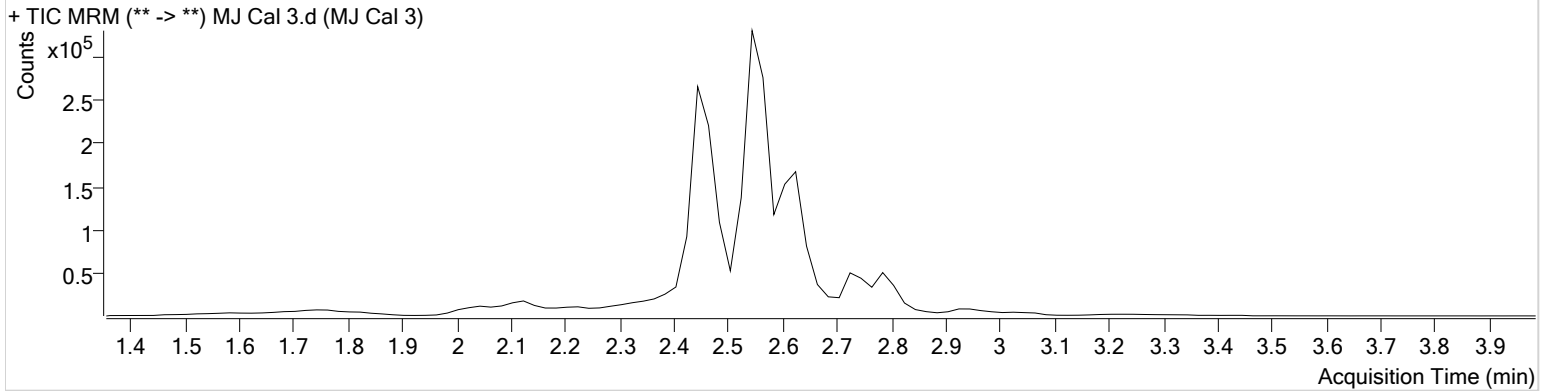
# AM #26 Cannabinoids Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 3
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-C1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 12:36:07 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	2618	82341	4.3356 ng/ml
THC-COOH	2.565	141573	396833	20.8701 ng/ml
THC-OH	2.451	38285	758272	4.9048 ng/ml



# AM #26 Cannabinoids Screen Results

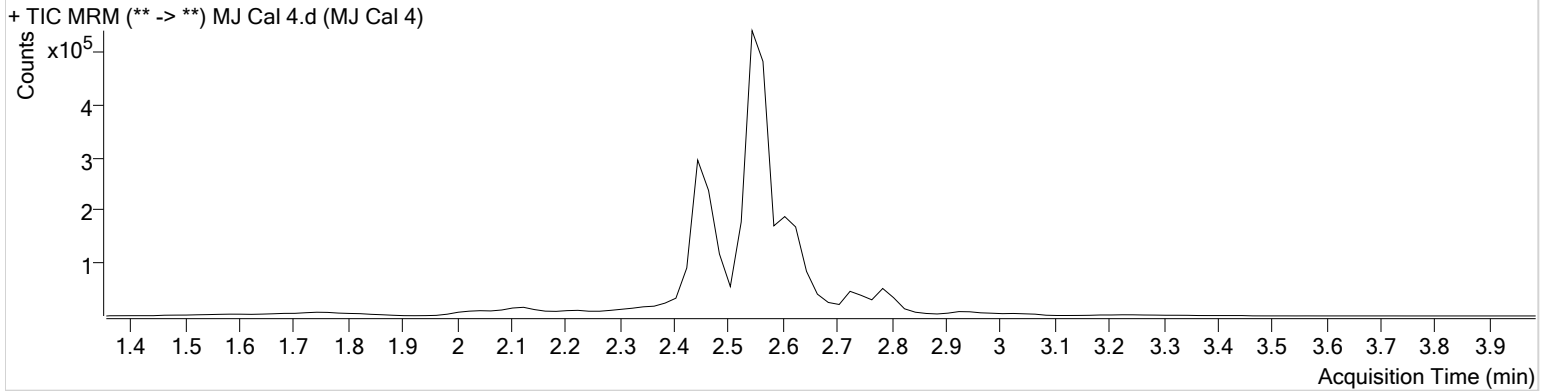


**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 4
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-D1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 12:42:40 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	5677	72235	10.6836 ng/ml
THC-COOH	2.545	378269	387431	55.2748 ng/ml
THC-OH	2.451	76763	744853	9.1992 ng/ml

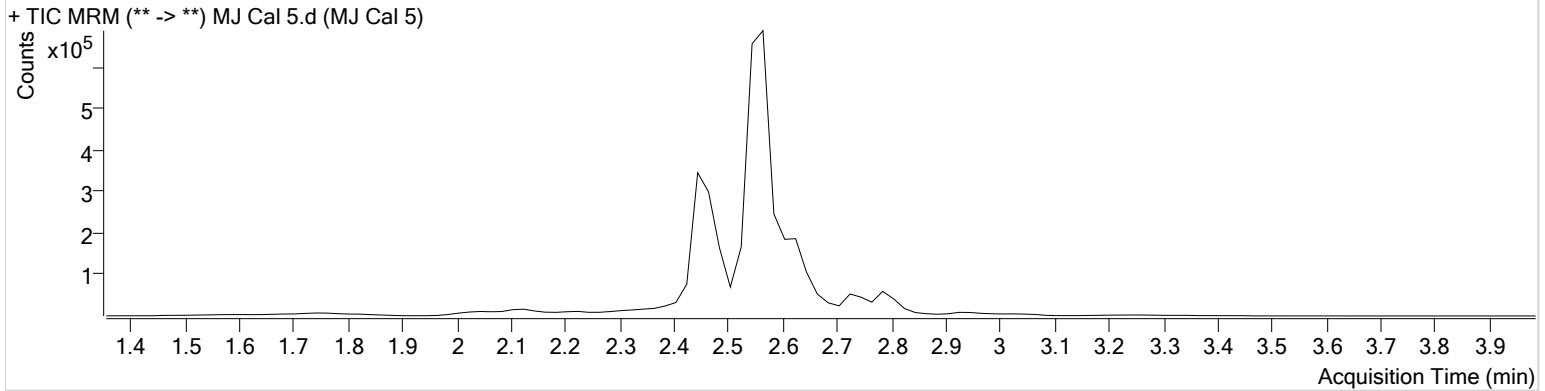
# AM #26 Cannabinoids Screen Results



**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 5
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-E1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 12:49:12 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	14472	80032	24.5541 ng/ml
THC-COOH	2.565	553682	401380	77.6579 ng/ml
THC-OH	2.471	232278	783668	24.9935 ng/ml

# AM #26 Cannabinoids Screen Results

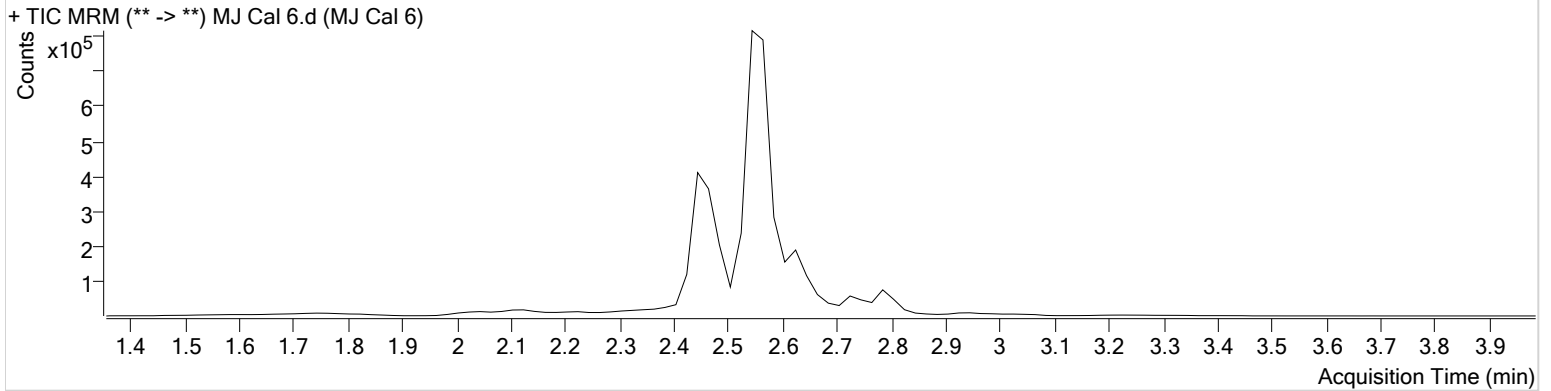


**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 6
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-F1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 12:55:45 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	31964	97128	44.6666 ng/ml
THC-COOH	2.565	662061	430341	86.4872 ng/ml
THC-OH	2.451	447861	794076	46.8547 ng/ml

# AM #26 Cannabinoids Screen Results

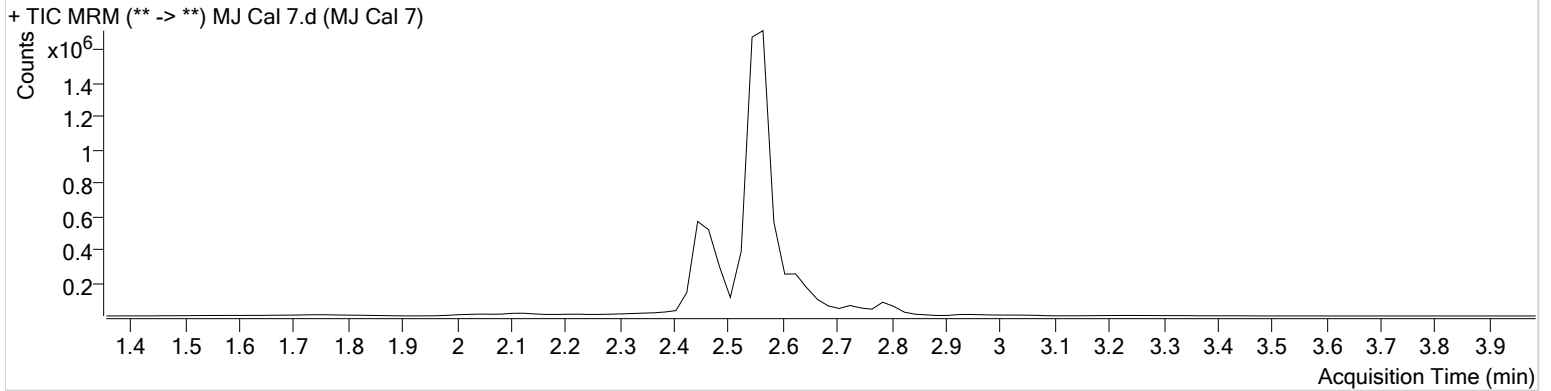


**Batch results** D:\MassHunter\Data\2020\AM 25-26\030420 AM 25 26 SP\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 3/5/2020 7:51:52 AM

<b>Instrument</b>	Falco	<b>Data File</b>	MJ Cal 7.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 7
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P3-G1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/4/2020 1:02:17 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	60534	77965	105.3536 ng/ml
THC-COOH	2.545	1799391	416008	241.2387 ng/ml
THC-OH	2.471	968833	769221	103.6711 ng/ml