10/30/2020

REVIEWED
By Tamara Salazar at 10:06 am, Nov 12, 2020

Worklist: 4578

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-3449	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-3491	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-3491	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-3491	6	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-3584	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-3585	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-3774	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2673	1	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2706	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2770	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2785	1	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2787	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2904	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-2989	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3040	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3082	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3096	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3097	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3104	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3161	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 10/20/2020 and 11/03/2020
Plate lot#: 200511
Mobile phase A: 10mM Amm Form
Instant Buffer I
Blank Blood Lot: 445283-4
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Expiration: 11/11/2020
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. Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.
☒ 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate. **Pipette ID: 42**
☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 5. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 7. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: 300µl
☒ 8. 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*
☒ 9. Wait 5 minutes.
☒ 10. Add **900uL ethyl acetate.**
☒ 11. Wait 5 minutes.
☒ 12. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 13. Add **900uL ethyl acetate.**
☒ 14. Wait 5 minutes.
☒ 15. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 16. 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*
☒ 17. Reconstitute in **100µL 20% 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.
☒ 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 of 5 or greater or 2-5 for discretionary range.
☒ 4. Did all QCs pass for each analyte? If no, describe issue in comments (below).
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Samples were extracted and run on 10/20/20. Before they had injected, it was discovered that the instrument was in need of repair. The plate was immediately put in the freezer. The plate was removed from the freezer and the samples were injected on 10/29/20. There was an unexpected compound in the negative control and that compound appeared to be in a few of the samples. With the negative control issue and the delay in the injection of the samples, it was determined that the initial run would not be used and the extraction would be repeated. The extraction was repeated on 11/3/20 and the samples were injected on 11/4/20 with no issues.

Idaho State Police
Forensic Services

AM #25 Blood and 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 ul of 1mg/mL stock was added to each drug to 9700 ul 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: WS052220)

200 ul of methanol external control solution was added to 9800 ul of urine.
Approximately 100ng/mL of each compound.

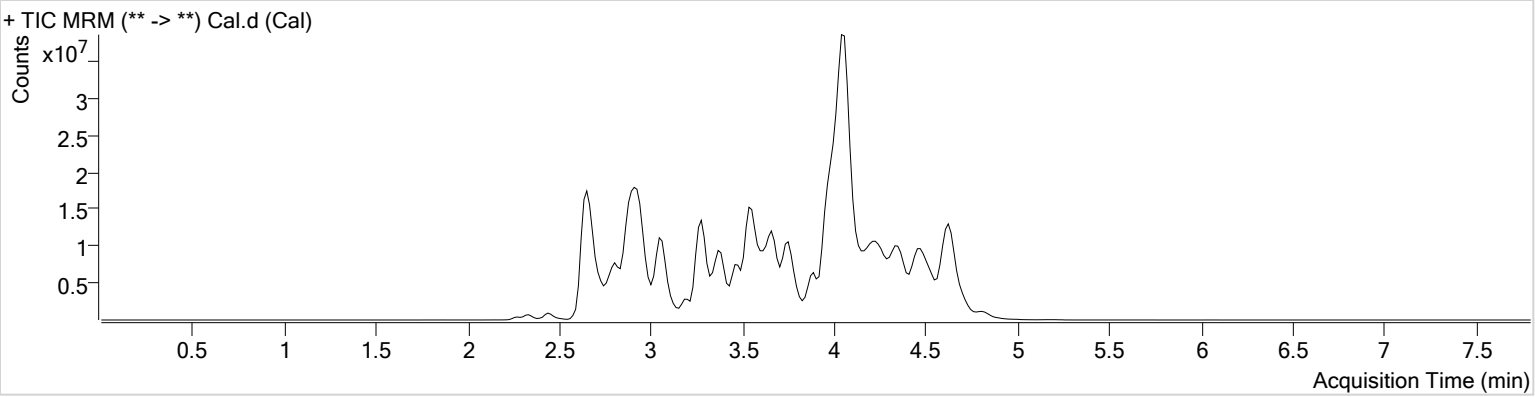
Component	*Source*	*Source Lot Number*
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	05/22/20	
Prepared by:	Celena Shrum	
Expires:	03/18/21	

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25 110420 CS\QuantResults\AM 25 CS.batch.bin
Calibration Last Update 11/6/2020 11:45:27 AM

Instrument	Falco	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 061720.m	**Operator**	Celena Shrum
Sample Position	P5-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/4/2020 9:22:23 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.877	78654	∞	759.27	2223825	10.0000
7-aminoclonazepam	3.584	1488896	2724.27	∞	5917296	10.0000
7-aminoflunitrazepam	3.783	2636069	∞	1475.42	5917296	10.0000
Acetyl Fentanyl	3.780	440064	112.22	∞	46229085	10.0000
Acetyl Norfentanyl	2.870	354058	∞	∞	46229085	10.0000
a-hydroxyalprazolam	4.485	469298	∞	78.33	5917296	10.0000
alpha-hydroxymidazolam	4.560	2390597	∞	∞	5917296	10.0000
Alpha-PHP	3.757	4520368	268940.97	1838.65	46229085	10.0000
alpha-PVP	3.483	6657843	1557.24	736.62	15716806	10.0000
Alprazolam	4.611	3429079	∞	∞	36553975	10.0000
Amitriptyline	4.369	2148242	∞	∞	5627870	10.0000
Amphetamine	2.829	6020421	764.04	∞	15716806	10.0000
Benzoylecgonine	3.385	1388986	167.24	2913.08	624711	10.0000
Brompheniramine	3.995	99043	∞	∞	65021023	10.0000
Buprenorphine	4.236	657651	463943.90	32218.56	2848907	10.0000
Bupropion	3.681	7920969	5831.77	∞	28462862	10.0000
Carbamazepine	4.204	12721077	1534.24	4026.07	1147381	10.0000
Carisoprodol	4.187	2119312	135162.78	82.84	12028474	10.0000
Chlordiazepoxide	4.674	1286805	72.93	2434.41	36553975	10.0000
Chlorpheniramine	3.892	16429	∞	∞	65021023	10.0000
Citalopram	4.010	3821854	∞	1314.35	65021023	10.0000
Clomipramine	4.563	1295473	∞	346.57	65021023	10.0000
Clonazepam	4.394	2857387	2548.43	∞	36553975	10.0000
Clonazolam	4.345	1812129	86968.80	18288.32	36553975	10.0000
Cocaethylene	3.750	7268532	∞	∞	42146754	10.0000
Cocaine	3.536	7548154	531781.86	76539.83	42146754	10.0000
Codeine	2.775	472980	588.56	418.58	14356478	10.0000
Cyclobenzaprine	4.293	2328637	∞	65.02	5627870	10.0000
Desipramine	4.325	3746863	∞	∞	5627870	10.0000
Dextromethorphan	4.031	2592920	1204.95	174041.16	13699672	10.0000
Dextrorphan	3.341	3493598	5331.29	551.58	13699672	10.0000
Diazepam	4.813	2221407	∞	∞	36553975	10.0000
Dihydrocodeine	2.728	1287410	604.78	∞	14356478	10.0000
Diphenhydramine	3.986	11834299	∞	4771.66	65021023	10.0000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.092	2128614	1033.20	∞	25316243	10.0000
Doxylamine	3.616	10863581	∞	611830.36	13699672	10.0000
EDDP	4.061	6688536	∞	20245.06	3817076	10.0000
Estazolam	4.520	8788089	21746.36	∞	36553975	10.0000
Etizolam	4.636	452265	228515.61	391166.53	36553975	10.0000
Fentanyl	3.993	257186	∞	78769.44	17744712	10.0000
Flualprazolam	4.484	1281472	∞	∞	36553975	10.0000
Flunitrazepam	4.533	4453911	∞	2226.36	36553975	10.0000
Fluoxetine	4.273	1280889	∞	∞	1777595	10.0000
Flurazepam	4.099	3470731	278747.19	10111.52	36553975	10.0000
Hydrocodone	2.957	2075398	∞	∞	14356478	10.0000
Hydromorphone	2.442	1158322	∞	∞	288018	10.0000
Imipramine	4.338	5271154	2570.47	279.25	5627870	10.0000
Ketamine	3.358	5260608	3688.82	∞	17085644	10.0000
Lamotrigine	3.495	418143	∞	32205.89	65021023	10.0000
Levamisole	2.917	3880592	∞	∞	42146754	10.0000
Levetiracetam	2.614	2124572	143.98	1184.59	65021023	10.0000
Lorazepam	4.394	695820	2178.75	203.14	36553975	10.0000
Maprotiline	4.369	1681658	∞	∞	5627870	10.0000
MDA	2.948	4138981	∞	307.47	37436725	10.0000
MDEA	3.207	6711017	4042.34	1342.82	37436725	10.0000
MDMA	3.040	8322833	4785.37	2359.20	37436725	10.0000
Meperidine	3.541	3382653	∞	5994.06	13699672	10.0000
Meprobamate	3.622	1094817	∞	57.77	12028474	10.0000
Methadone	4.350	7142326	∞	∞	3817076	10.0000
Methamphetamine	2.935	9960350	112.96	444.03	37436725	10.0000
Methocarbamol	3.542	782263	282.88	∞	3817076	10.0000
Methylphenidate	3.467	14627718	94.91	110.84	30315958	10.0000
Metoprolol	3.402	834475	30891.50	∞	13699672	10.0000
Midazolam	4.699	903628	∞	152.14	36553975	10.0000
Mirtazapine	3.755	4063415	140922.70	76300.47	13699672	10.0000
Mitragynine	4.129	350340	169550.17	347711.79	13699672	10.0000
Morphine	2.276	343496	∞	∞	288018	10.0000
Norbuprenorphine	3.776	93209	38540.23	56966.58	2848907	10.0000
Nordiazepam	4.661	2204553	∞	∞	36553975	10.0000
Norfentanyl	3.282	10187090	13046.93	1010.27	46229085	10.0000
Norhydrocodone	2.898	77994	∞	∞	288018	10.0000
Norketamine	3.375	894726	∞	∞	17085644	10.0000
Normeperidine	3.543	3414673	4767.08	∞	65021023	10.0000
Noroxycodone	2.850	2374803	536.22	192.07	17085644	10.0000
Nortriptyline	4.371	1008089	289.60	210.16	5627870	10.0000
O-desmethyl-tramadol	2.869	10118775	13683.56	92.81	65021023	10.0000
Olanzapine	3.183	13578	4949.32	7.79	1147381	10.0000
Oxazepam	4.475	4373591	∞	290.22	29377037	10.0000
Oxycodone	2.879	3605559	463.91	∞	17085644	10.0000
Oxymorphone	2.332	1405718	∞	285.22	288018	10.0000
Paroxetine	4.285	207151	5238.07	1163.47	1777595	10.0000
Phenazepam	4.606	4233033	224533.34	292134.93	36553975	10.0000
Phencyclidine	3.895	7027573	∞	∞	13699672	10.0000
Phentermine	3.087	1309416	∞	32.42	30315958	10.0000
Phenytoin	4.095	2115169	3840.15	∞	1147381	10.0000
Promethazine	4.260	6135825	2504.53	169.14	65021023	10.0000
Pseudoephedrine	2.660	69917207	24180.09	22402.69	37436725	10.0000
Quetiapine	4.283	3404806	∞	273056.19	57136752	10.0000
Sertraline	4.504	341232	89867.37	175.16	1777595	10.0000
Sufentanil	4.283	193215	2060.56	124.39	46229085	10.0000
Tapentadol	3.391	6077813	∞	∞	17085644	10.0000
Temazepam	4.627	6700225	∞	∞	36553975	10.0000
Tramadol	3.387	12043460	3450.47	101.23	65021023	10.0000
Trazodone	4.253	4967726	2325856.43	∞	25316243	10.0000

Cal

AM #25 Multi-Drug Screen Results

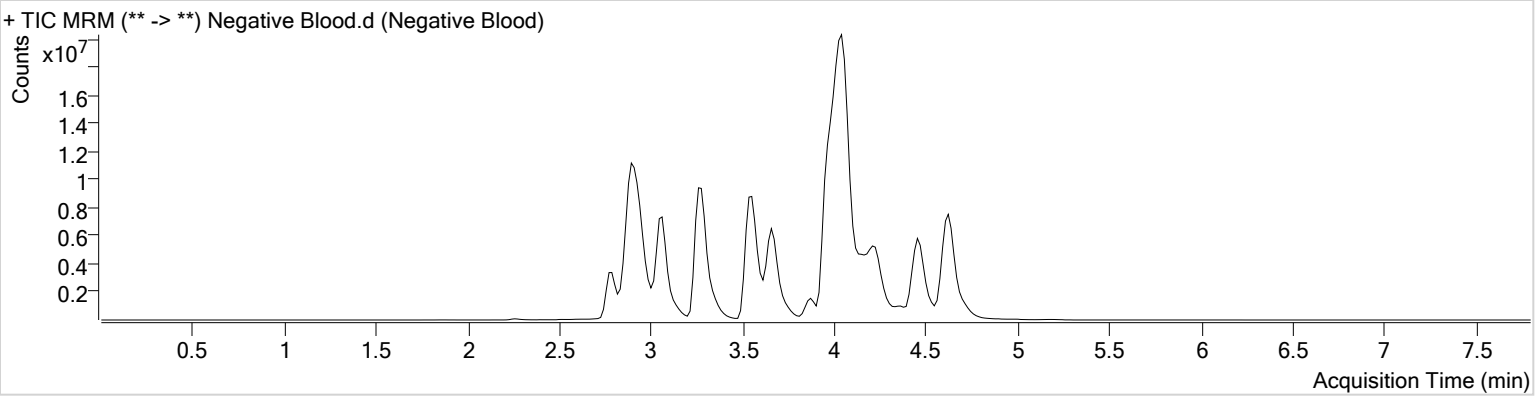
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.738	9246626	∞	∞	1777595	10.0000
Zaleplon	4.336	4846352	159879.25	∞	57136752	10.0000
Zolpidem	4.059	10743790	∞	969.58	57136752	10.0000
Zopiclone	3.884	1429457	161099.75	96241.36	7166872	10.0000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25 110420 CS\QuantResults\AM 25 CS.batch.bin
Calibration Last Update 11/6/2020 11:45:27 AM

Instrument	Falco	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	AM 25 061720.m	**Operator**	Celena Shrum
Sample Position	P5-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/4/2020 9:30:57 AM		
Sample Info.			

Sample Chromatogram

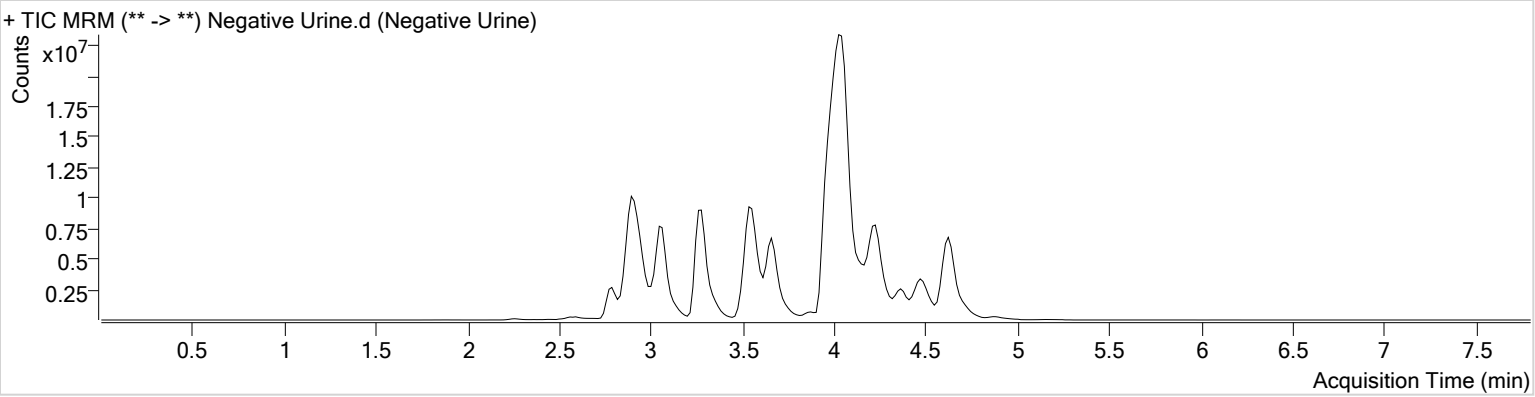


AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25 110420 CS\QuantResults\AM 25 CS.batch.bin
Calibration Last Update	11/6/2020 11:45:27 AM

Instrument	Falco	**Data File**	Negative Urine.d
Type	Sample	**Sample**	Negative Urine
Acq. Method	AM 25 061720.m	**Operator**	Celena Shrum
Sample Position	P5-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/4/2020 9:39:22 AM		
Sample Info.			

Sample Chromatogram

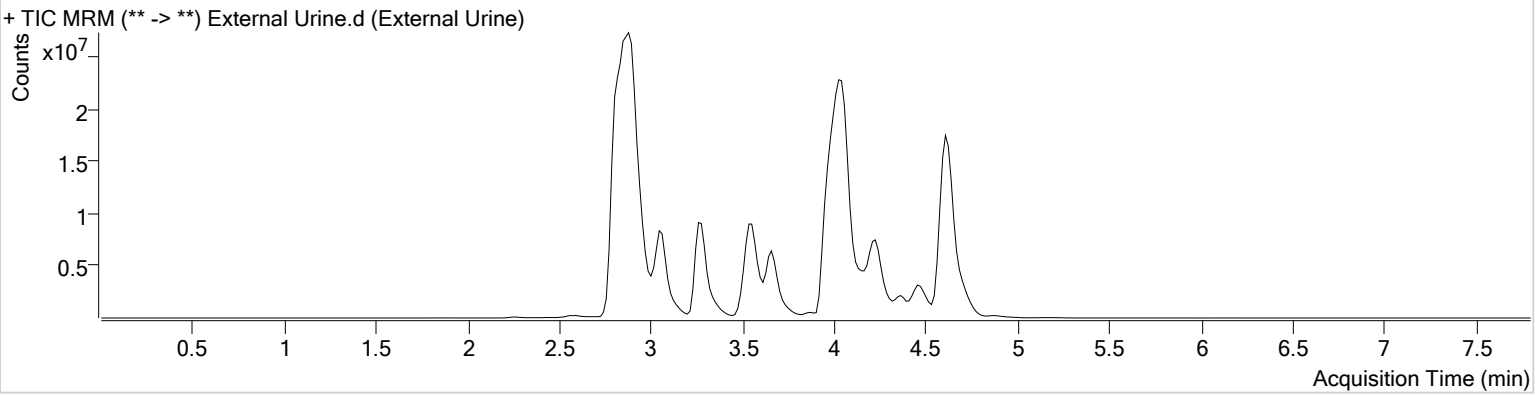


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25 110420 CS\QuantResults\AM 25 CS.batch.bin
Calibration Last Update 11/6/2020 11:45:27 AM

Instrument	Falco	**Data File**	External Urine.d
Type	Sample	**Sample**	External Urine
Acq. Method	AM 25 061720.m	**Operator**	Celena Shrum
Sample Position	P5-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/4/2020 9:47:46 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.611	33586771	∞	∞	31087557	115.1699
Amphetamine	2.829	43717280	1150.31	∞	9793861	116.5297
O-desmethyl-tramadol	2.884	65111181	48042.71	970.83	68026730	61.5038

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

Extraction Date: 10/20/2020
Plate lot#: IDP-108-2-200723
Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: 445283-4
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Expiration: 01/23/2021
Mobile phase B: 0.1% Formic acid in Acetonitrile
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. Using a calibrated pipette, add **1000µl blood and urine (if applicable) (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID: #42**
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 4. Pipette **500µL 0.1% formic acid in water blood sample** of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **800µL of blood+acid or urine+acid** 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 **2.25mL MTBE. (*Add in 3 increments of 750uL)***
☒ 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)***
☒ 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

☒ 1. Create batch and process data.
☒ 2. Make any necessary integration changes, R^2 values ≥0.98 for each analyte
☒ 3. RT +/- 2% or 0.100 min, whichever is greater
☒ 4. Confirmation testing on case samples with a response for THC and OH-THC of 3ng/mL or greater and/or Carboxy-THC at 10ng/mL or greater (analyst discretion between 5-10ng/mL) may be pursued.
☒ 5. Did all QCs pass for each analyte? (if not, describe in comments section)
☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Samples were extracted and run on 10/20/20. Before they had injected, it was discovered that the instrument was in need of repair. The plate was immediately put in the freezer. The plate was removed from the freezer and the samples were injected on 10/29/20 with no issues. Carboxy-THC curve range limited to: 10-250.

Idaho State Police Forensic Services

AM #26 Screening of THC and Metabolites and AM #27 Confirmation of THC and Metabolites Urine External Control Prep Sheet

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 1ug/mL.

Component	*Source*	*Source Lot Number*	*Expiration Date*
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		

Urine External Control Solution (Lot: 042220)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 20ng/mL each

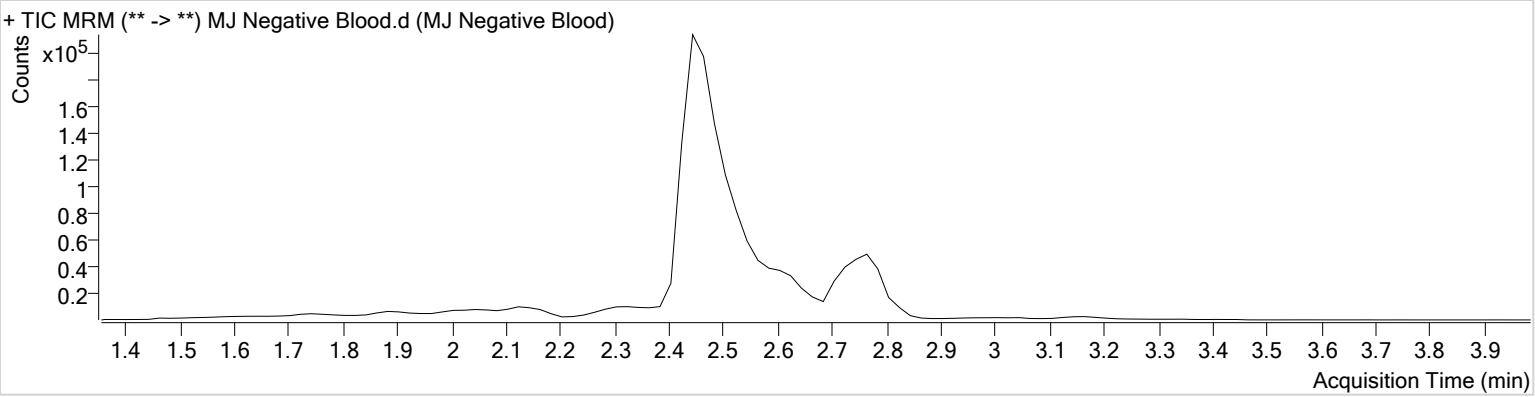
Component	*Source*	*Source Lot Number*
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS011620
Prepared:	07/07/2020	
Prepared by:	Sophie Jackson	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:40:31 PM		
Sample Info.			

Sample Chromatogram

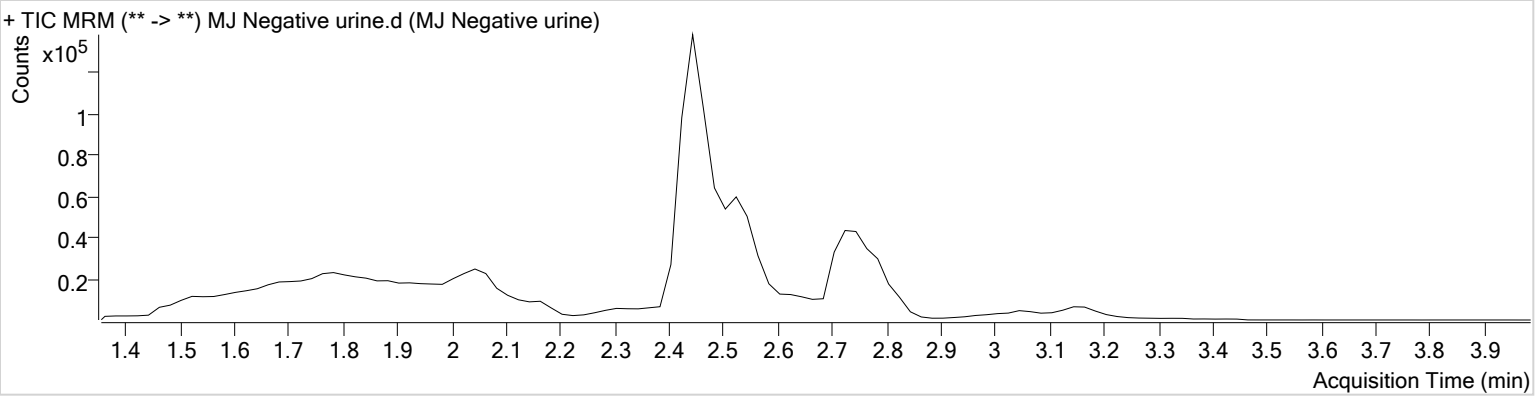


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Negative urine.d
Type	Sample	**Sample**	MJ Negative urine
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:53:35 PM		
Sample Info.			

Sample Chromatogram

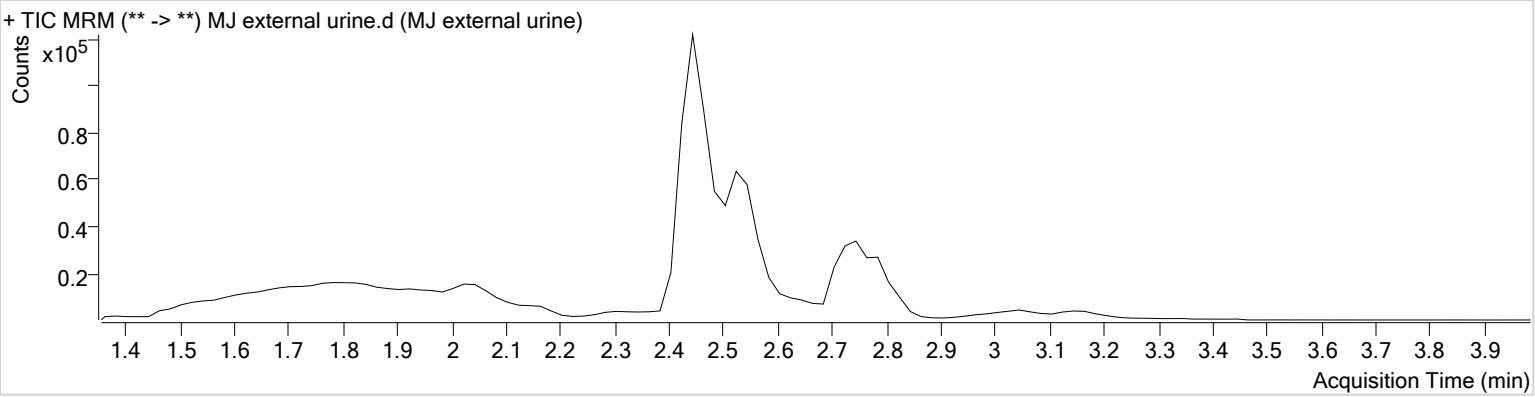


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ external urine.d
Type	Sample	**Sample**	MJ external urine
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-C2	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 4:00:08 PM		
Sample Info.			

Sample Chromatogram



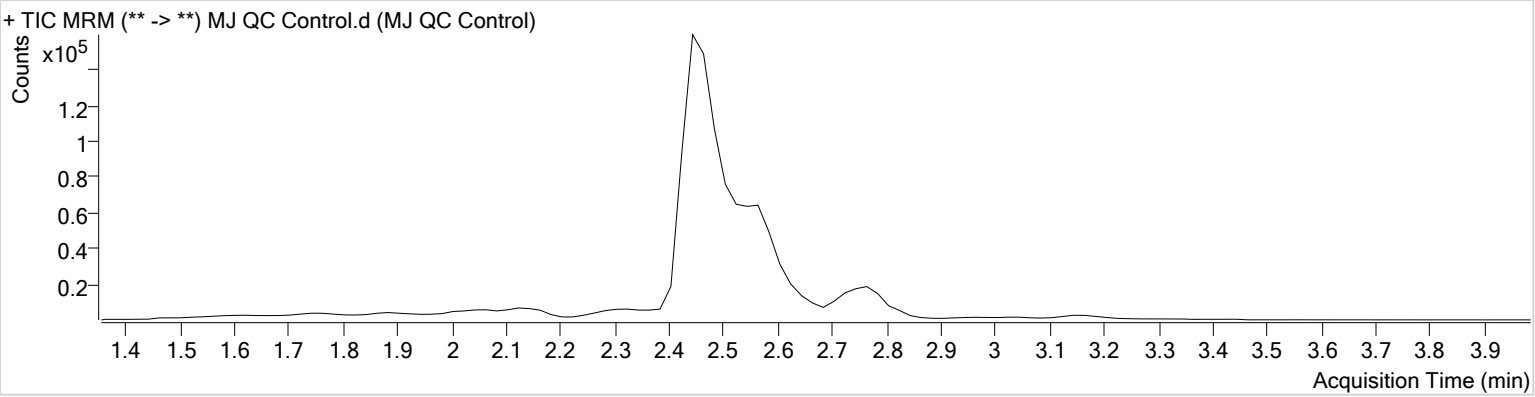
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	1967	39572	5.4417	ng/ml
THC-COOH	2.545	39718	117927	8.2307	ng/ml
THC-OH	2.451	58534	390694	11.7960	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:27:28 PM		
Sample Info.			

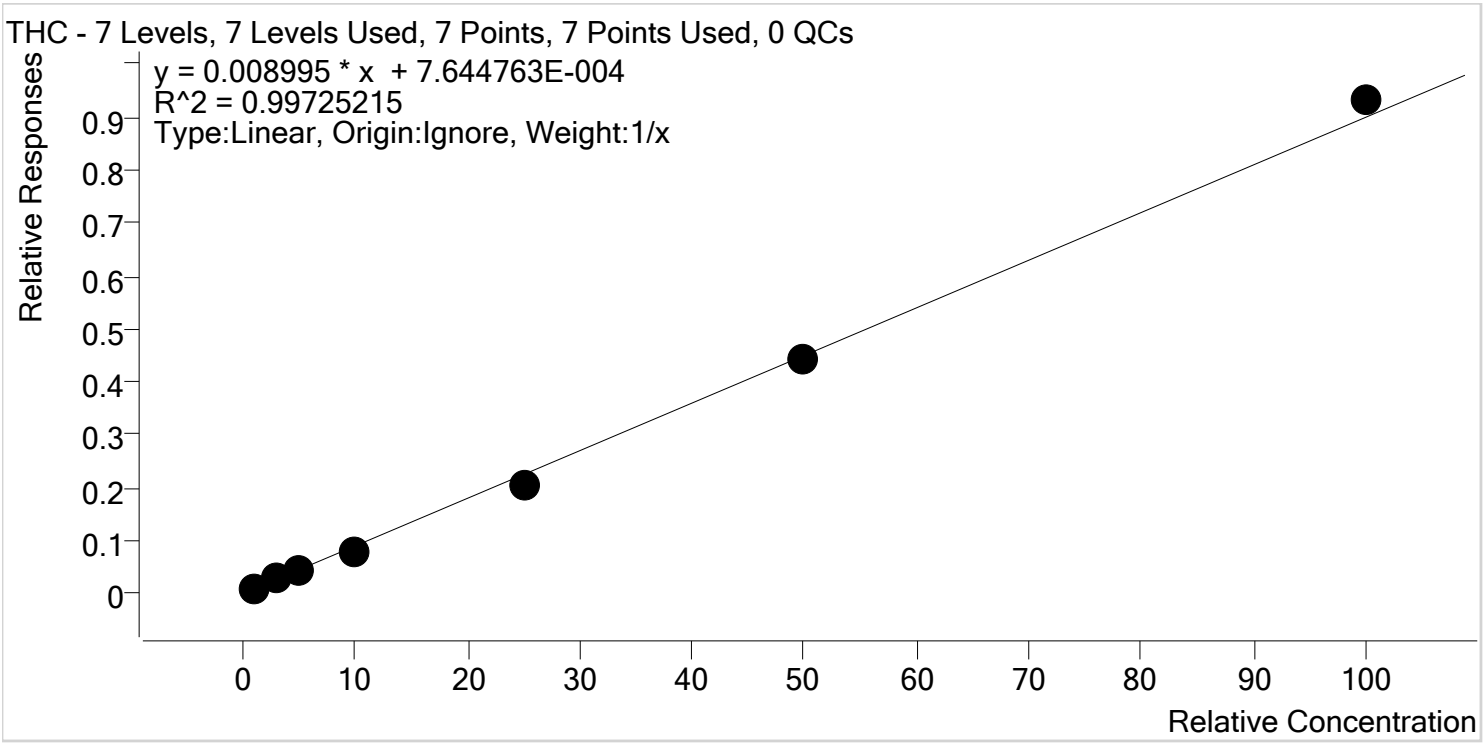
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	1086	24305	4.8844	ng/ml
THC-COOH	2.565	69631	120567	18.1220	ng/ml
THC-OH	2.451	21629	245443	5.7253	ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

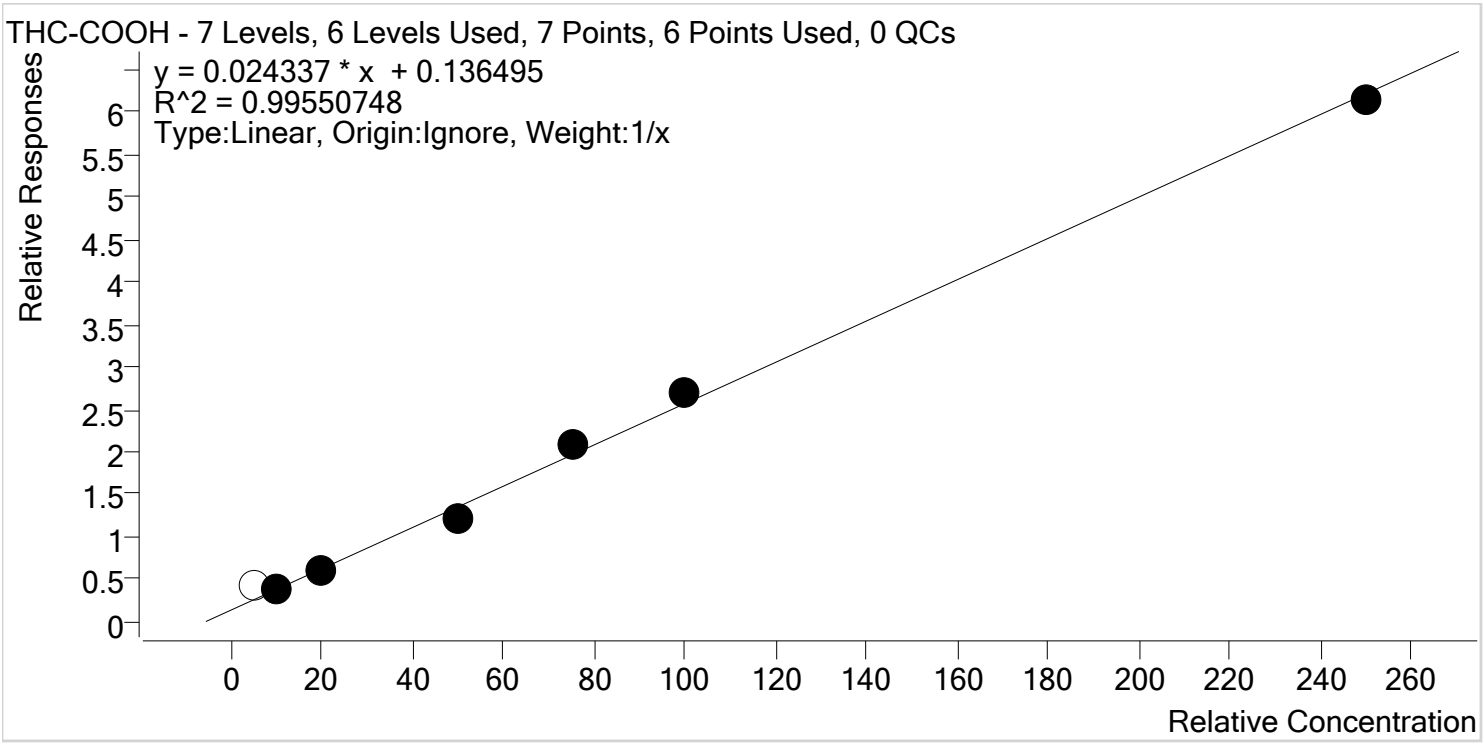
Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Last Cal. Update	11/6/2020 11:47 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	110.0
MJ Cal 2	2	✔	3.0	3.3	109.6
MJ Cal 3	3	✔	5.0	4.8	96.3
MJ Cal 4	4	✔	10.0	9.0	90.5
MJ Cal 5	5	✔	25.0	22.8	91.4
MJ Cal 6	6	✔	50.0	49.4	98.8
MJ Cal 7	7	✔	100.0	103.5	103.5

AM #26 Cannabinoids Screen Calibration Curve Report

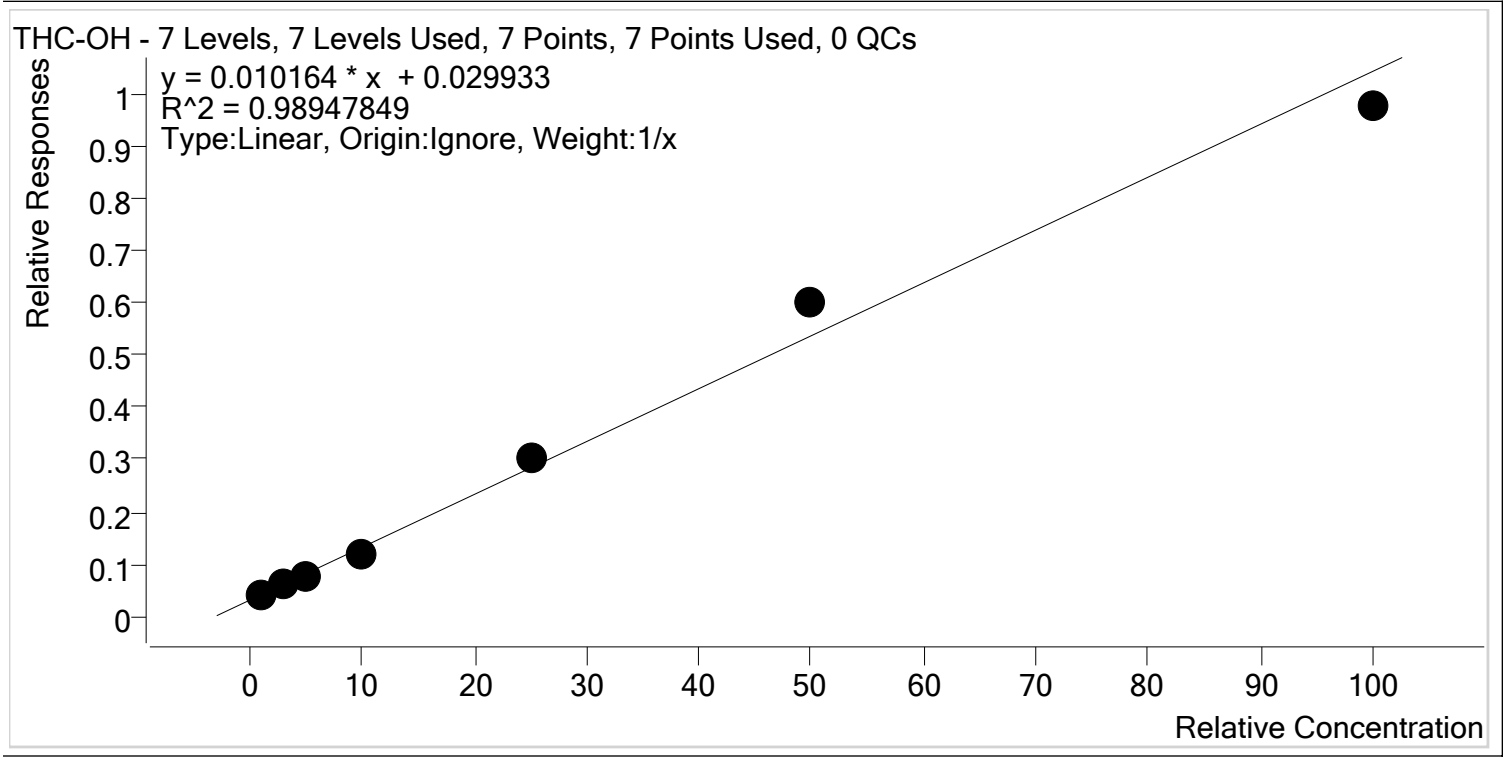
Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Last Cal. Update	11/6/2020 11:47 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✗	5.0	11.3	226.2
MJ Cal 2	2	✔	10.0	10.4	104.5
MJ Cal 3	3	✔	20.0	19.8	98.8
MJ Cal 4	4	✔	50.0	43.4	86.9
MJ Cal 5	5	✔	75.0	79.7	106.3
MJ Cal 6	6	✔	100.0	104.8	104.8
MJ Cal 7	7	✔	250.0	246.8	98.7

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Last Cal. Update	11/6/2020 11:47 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



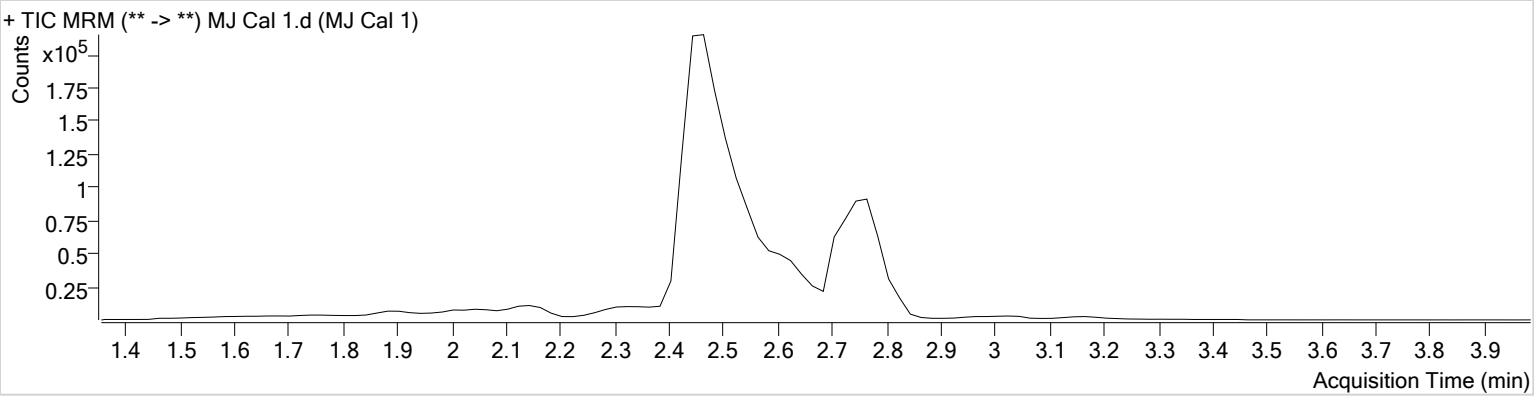
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	109.0
MJ Cal 2	2	✔	3.0	3.1	102.0
MJ Cal 3	3	✔	5.0	4.5	90.3
MJ Cal 4	4	✔	10.0	8.4	84.3
MJ Cal 5	5	✔	25.0	27.0	108.2
MJ Cal 6	6	✔	50.0	56.5	113.0
MJ Cal 7	7	✔	100.0	93.4	93.4

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 2:41:44 PM		
Sample Info.			

Sample Chromatogram



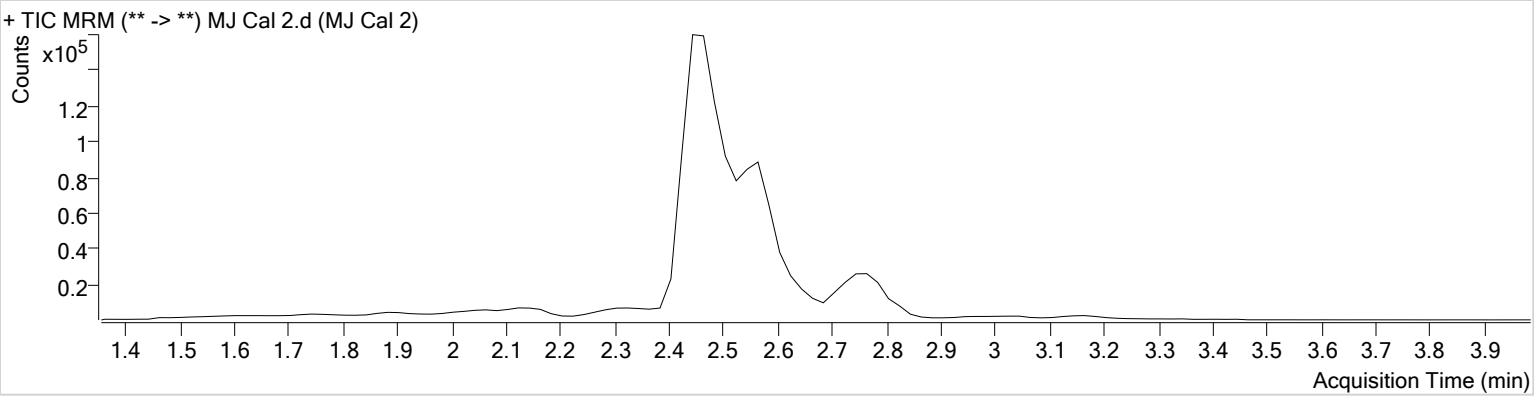
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.779	1088	102052	1.0998	ng/ml	**Low**
THC-COOH	2.525	50912	123660	11.3083	ng/ml	
THC-OH	2.451	14121	344336	1.0898	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 2:48:24 PM		
Sample Info.			

Sample Chromatogram



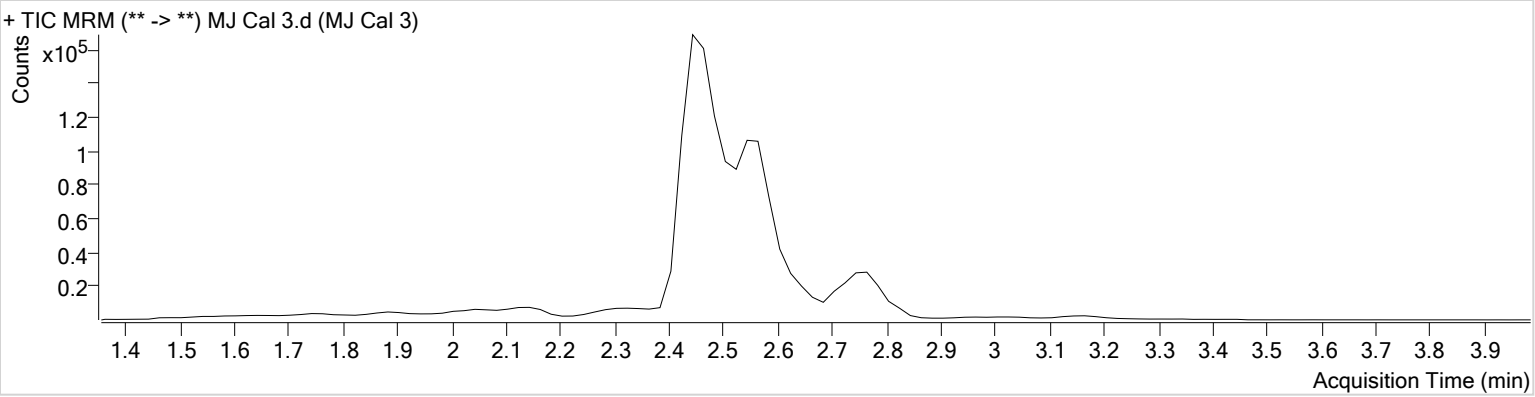
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	959	31580	3.2893	ng/ml
THC-COOH	2.565	68971	176515	10.4466	ng/ml
THC-OH	2.451	16390	268604	3.0586	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 2:54:54 PM		
Sample Info.			

Sample Chromatogram



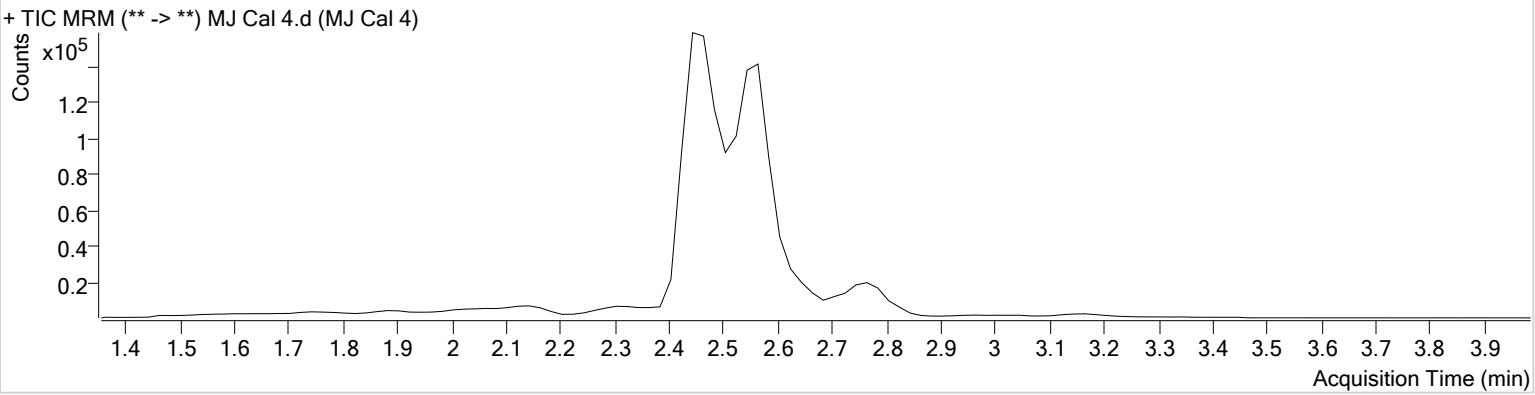
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	1519	34480	4.8130	ng/ml
THC-COOH	2.565	109144	176733	19.7669	ng/ml
THC-OH	2.451	20795	274331	4.5131	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:01:24 PM		
Sample Info.			

Sample Chromatogram



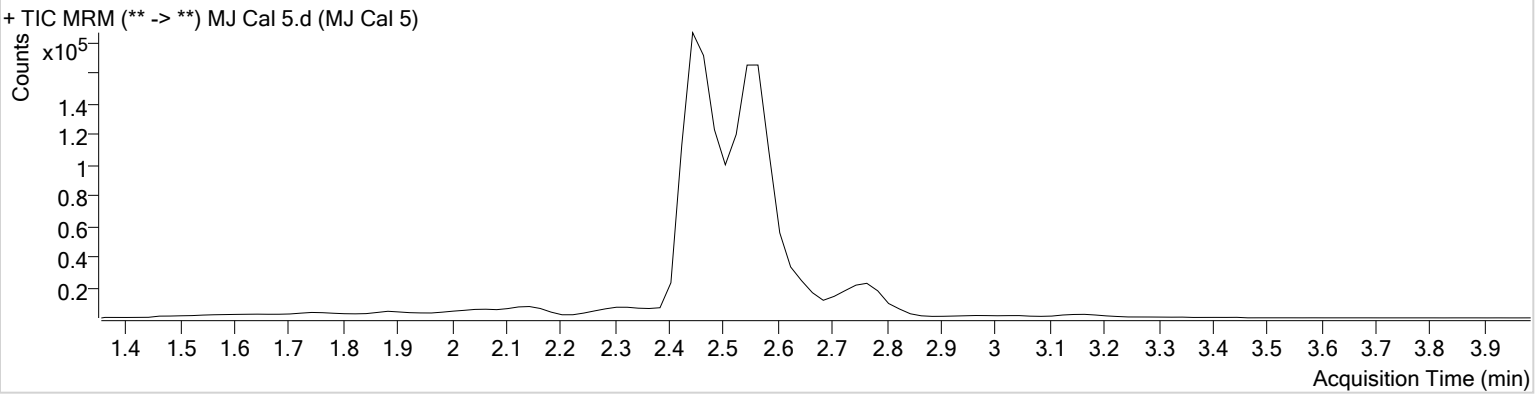
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	2150	26176	9.0469	ng/ml
THC-COOH	2.565	175961	147436	43.4308	ng/ml
THC-OH	2.451	28726	248551	8.4262	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:07:54 PM		
Sample Info.			

Sample Chromatogram



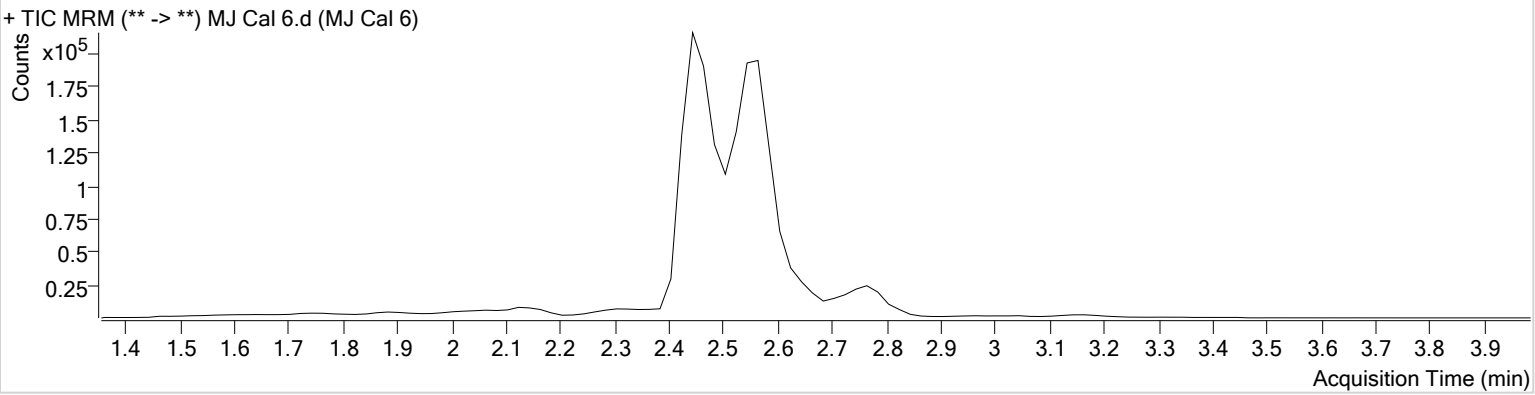
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	5644	27373	22.8382	ng/ml
THC-COOH	2.565	281254	135454	79.7090	ng/ml
THC-OH	2.451	74844	245566	27.0427	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 6.d
Type	Cal	**Sample**	MJ Cal 6
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:14:26 PM		
Sample Info.			

Sample Chromatogram



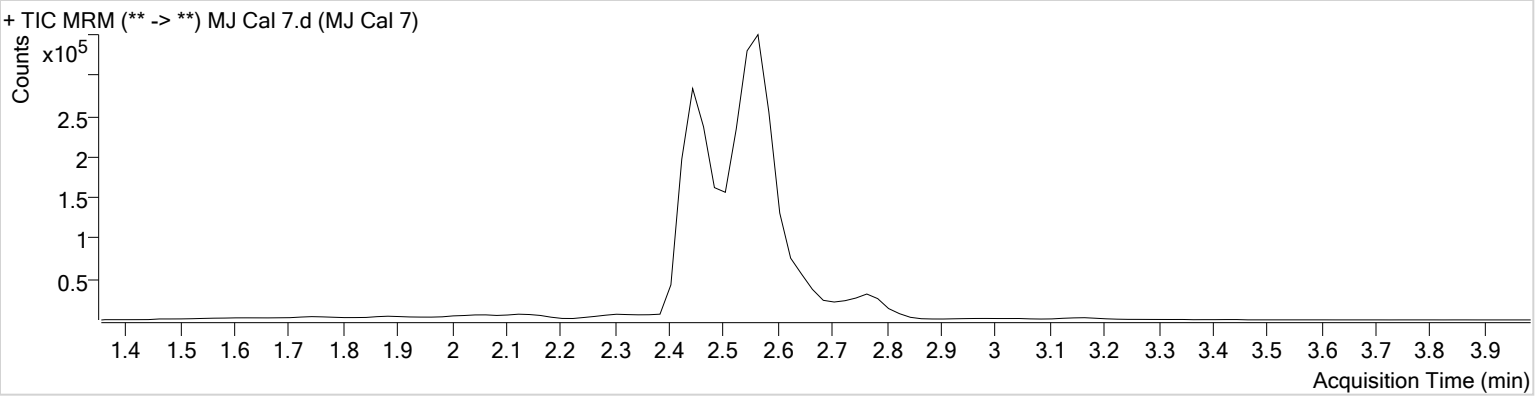
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.779	11745	26398	49.3783	ng/ml
THC-COOH	2.565	352620	131191	104.8336	ng/ml
THC-OH	2.451	150243	248663	56.5029	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 102920 CS TS\CS MJ\QuantResults\AM 26 CS.batch.bin
Calibration Last Update 11/6/2020 11:47:12 AM

Instrument	Falco	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	am 26 test.m	**Operator**	Celena Shrum
Sample Position	P3-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	10/30/2020 3:20:56 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.799	23905	25647	103.5344	ng/ml
THC-COOH	2.565	750324	122139	246.8131	ng/ml
THC-OH	2.451	251122	256543	93.3667	ng/ml