REVIEWED
By Tamara Salazar at 10:59 am, Dec 09, 2020

12/2/2020

Worklist: 4644

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-4547	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-4704	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-4705	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-4706	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-4707	5	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3062	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3062	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3165	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3243	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3274	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3289	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3311	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3339	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3459	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3460	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3464	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3464	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-3464	3	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: 12/01/2020
Plate lot#: 200511
Mobile phase A: 10mM Amm Form
Instant Buffer I
Blank Blood Lot: ~~20K20702~~ 20L20725
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Expiration: 11/11/2020 -Okay with external control
Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol
Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
Blank Urine Lot: POC031319

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:

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: 120320)

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	197468	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/03/2020		
Prepared By:	Celena Shrum		
Expires:	07/31/2021		

Blood External Control Solution (Lot: WS120320)

100 µL of methanol external control solution was added to 9900 µL of blood. Approximately 100 ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Blood	Lampire	~~20K20702~~ 20L20725 cs
Methanol External Control Solution		120320
Prepared:	12/03/2020	
Prepared by:	Celena Shrum	
Expires:	07/31/2021	

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.

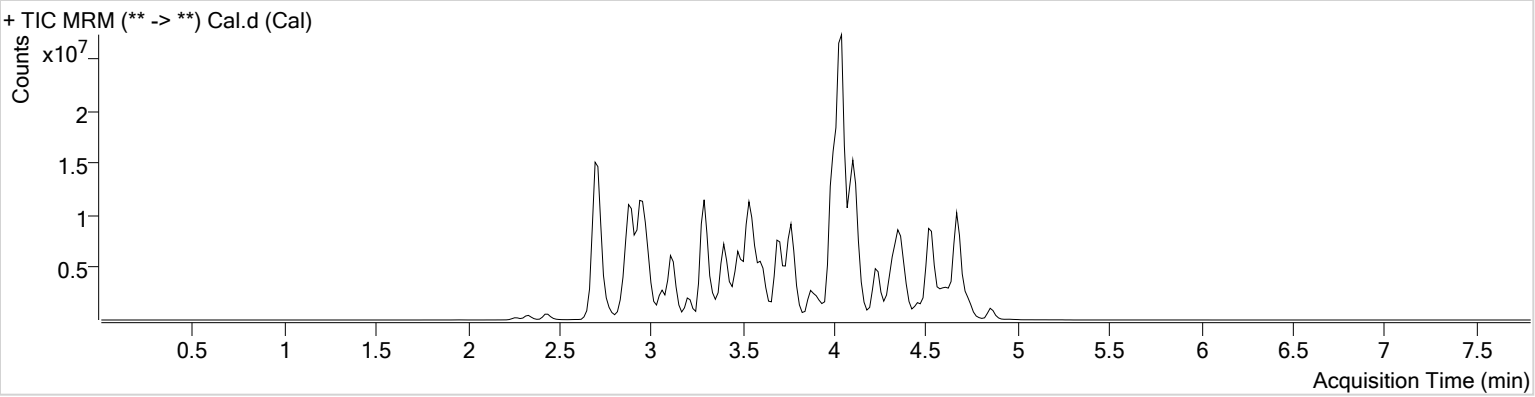
Component	*Source*	*Source Lot Number*
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	05/22/20	
Prepared by:	Celena Shrum	
Expires:	03/18/21	

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 12/2/2020 1:25:50 PM

Instrument	Instrument 1	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P6-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/2/2020 7:48:32 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.877	39289	∞	98.92	802389	10.0000
7-aminoclonazepam	3.569	900251	394.71	20221.27	3442194	10.0000
7-aminoflunitrazepam	3.768	1681218	1422.21	204.98	3442194	10.0000
Acetyl Fentanyl	3.764	213766	275.25	112057.28	26575849	10.0000
Acetyl Norfentanyl	2.886	265346	∞	∞	26575849	10.0000
a-hydroxyalprazolam	4.531	205456	160.71	210.97	3442194	10.0000
alpha-hydroxymidazolam	4.591	2019430	357.88	186938.78	3442194	10.0000
Alpha-PHP	3.773	3304201	1922.33	∞	26575849	10.0000
alpha-PVP	3.498	4741284	7306.25	296.82	6040966	10.0000
Alprazolam	4.626	2413696	∞	21269.80	20804801	10.0000
Amitriptyline	4.400	569308	130.00	263.50	1541232	10.0000
Amphetamine	2.890	3541193	2143.65	3414.68	6040966	10.0000
Benzoylecgonine	3.385	781911	223.75	295.57	357979	10.0000
Brompheniramine	4.010	50336	109.46	∞	33023394	10.0000
Buprenorphine	4.343	450989	195.38	25642.51	1774759	10.0000
Bupropion	3.712	4930954	∞	∞	15645802	10.0000
Carbamazepine	4.250	8174074	∞	1386.39	439676	10.0000
Carisoprodol	4.233	926800	11221.92	176.70	4970625	10.0000
Chlordiazepoxide	4.735	1319419	326.48	∞	20804801	10.0000
Chlorpheniramine	3.908	20210	∞	2702.53	33023394	10.0000
Citalopram	4.040	1966732	213.94	1009.96	33023394	10.0000
Clomipramine	4.594	310799	1913.05	198.90	33023394	10.0000
Clonazepam	4.456	1378372	46099.13	134.94	20804801	10.0000
Clonazolam	4.376	1121199	874944.55	404743.98	20804801	10.0000
Cocaethylene	3.750	4380381	∞	411.99	22403615	10.0000
Cocaine	3.536	4629979	5357710.51	619.29	22403615	10.0000
Codeine	2.775	325298	1547.38	116.41	7432195	10.0000
Cyclobenzaprine	4.324	576529	335.17	94.62	1541232	10.0000
Desipramine	4.355	831158	5836.13	679.08	1541232	10.0000
Dextromethorphan	4.047	1140476	481.18	∞	6091388	10.0000
Dextrorphan	3.341	2073088	1074.15	4442.11	6091388	10.0000
Diazepam	4.859	1514033	∞	∞	20804801	10.0000
Dihydrocodeine	2.728	731168	∞	∞	7432195	10.0000
Diphenhydramine	4.002	5203255	849.47	283.58	33023394	10.0000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.123	746369	375.82	50.19	11820373	10.0000
Doxylamine	3.616	7192951	∞	7456.70	6091388	10.0000
EDDP	4.045	5120264	941.98	1132.83	2909757	10.0000
Estazolam	4.536	5243638	4404.54	1172.83	20804801	10.0000
Etizolam	4.636	237585	283.73	273674.99	20804801	10.0000
Fentanyl	4.009	97882	∞	35074.93	6057489	10.0000
Flualprazolam	4.484	712993	260.22	44514.14	20804801	10.0000
Flunitrazepam	4.579	2612615	1104.76	1566.35	20804801	10.0000
Fluoxetine	4.319	250424	∞	68.64	375718	10.0000
Flurazepam	4.114	2053479	348335.58	4788.67	20804801	10.0000
Hydrocodone	2.957	1059282	53.71	∞	7432195	10.0000
Hydromorphone	2.442	845172	∞	∞	150449	10.0000
Imipramine	4.368	1515428	535.15	∞	1541232	10.0000
Ketamine	3.405	3973265	∞	283.62	10047847	10.0000
Lamotrigine	3.541	265293	28533.89	541.38	33023394	10.0000
Levamisole	2.917	2756263	20192.86	2000.83	22403615	10.0000
Levetiracetam	2.674	1016888	376.02	539.28	33023394	10.0000
Lorazepam	4.455	543556	1078.08	242.86	20804801	10.0000
Maprotiline	4.400	569308	130.00	∞	1541232	10.0000
MDA	2.994	1989786	3927.31	∞	21759732	10.0000
MDEA	3.207	3582234	4106.11	1874.36	21759732	10.0000
MDMA	3.070	4651754	517428.36	949.24	21759732	10.0000
Meperidine	3.557	2149660	∞	1679.40	6091388	10.0000
Meprobamate	3.668	371375	223.88	54.27	4970625	10.0000
Methadone	4.365	3734486	518.61	390.91	2909757	10.0000
Methamphetamine	2.980	4843214	71.32	5343.69	21759732	10.0000
Methocarbamol	3.588	514134	549.26	∞	2909757	10.0000
Methylphenidate	3.482	8739755	∞	∞	15947556	10.0000
Metoprolol	3.402	528037	2552.34	613930.91	6091388	10.0000
Midazolam	4.730	489941	∞	156.52	20804801	10.0000
Mirtazapine	3.770	2441265	8863.13	18954.50	6091388	10.0000
Mitragynine	4.129	163268	145953.99	252719.31	6091388	10.0000
Morphine	2.276	151298	∞	∞	150449	10.0000
Norbuprenorphine	3.792	41924	36309.41	85.08	1774759	10.0000
Nordiazepam	4.708	1545016	∞	474.96	20804801	10.0000
Norfentanyl	3.298	6074585	880.49	266.76	26575849	10.0000
Norhydrocodone	2.913	28942	∞	∞	150449	10.0000
Norketamine	3.453	650422	97.65	2232.45	10047847	10.0000
Normeperidine	3.574	1800087	6337.06	∞	33023394	10.0000
Noroxycodone	2.865	955479	221.79	153.67	10047847	10.0000
Nortriptyline	4.386	209452	23801.46	66.96	1541232	10.0000
O-desmethyl-tramadol	2.899	6946373	1601.77	647.13	33023394	10.0000
Olanzapine	3.229	18511	30023.63	74.37	439676	10.0000
Oxazepam	4.536	2469745	2344.95	179.28	15590329	10.0000
Oxycodone	2.894	2372051	∞	146.73	10047847	10.0000
Oxymorphone	2.332	857840	464.25	441.63	150449	10.0000
Paroxetine	4.316	27322	27.67	10780.67	375718	10.0000
Phenazepam	4.651	1880089	239520.59	661.26	20804801	10.0000
Phencyclidine	3.880	4086621	9842.12	464.72	6091388	10.0000
Phentermine	3.133	1243588	∞	22.23	15947556	10.0000
Phenytoin	4.141	947561	2960.58	∞	439676	10.0000
Promethazine	4.291	1725279	489.09	465.41	33023394	10.0000
Pseudoephedrine	2.705	39332118	∞	27872.84	21759732	10.0000
Quetiapine	4.345	1908106	941.15	758.53	32535313	10.0000
Sertraline	4.534	70634	962.19	146.69	375718	10.0000
Sufentanil	4.314	53151	110502.29	4.73 **Low**-OK	26575849	10.0000
Tapentadol	3.422	3798357	2757.62	∞	10047847	10.0000
Temazepam	4.689	3934661	6182.84	204.73	20804801	10.0000
Tramadol	3.402	8621644	5773.51	70.99	33023394	10.0000
Trazodone	4.360	2525409	876.58	592.78	11820373	10.0000

Cal

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.769	6172009	653.38	∞	375718	10.0000
Zaleplon	4.351	2617107	873.76	2422.74	32535313	10.0000
Zolpidem	4.120	7572852	2565.76	1129.42	32535313	10.0000
Zopiclone	3.961	426720	177.81	1043.33	2164821	10.0000

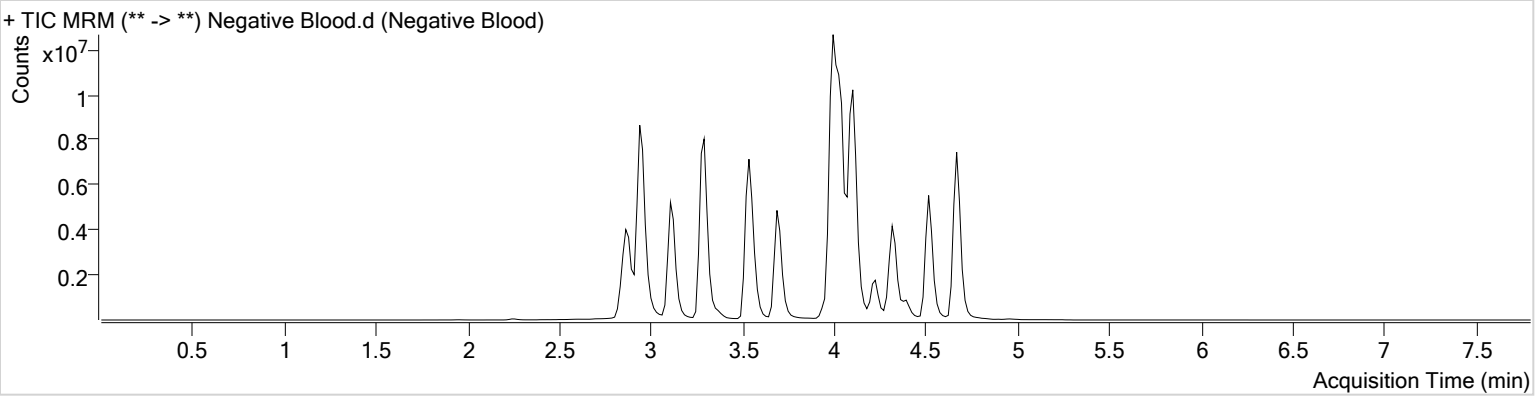
Cal

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 25.batch.bin
Calibration Last Update	12/2/2020 1:25:50 PM

Instrument	Instrument 1	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P6-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/2/2020 7:57:06 AM		
Sample Info.			

Sample Chromatogram

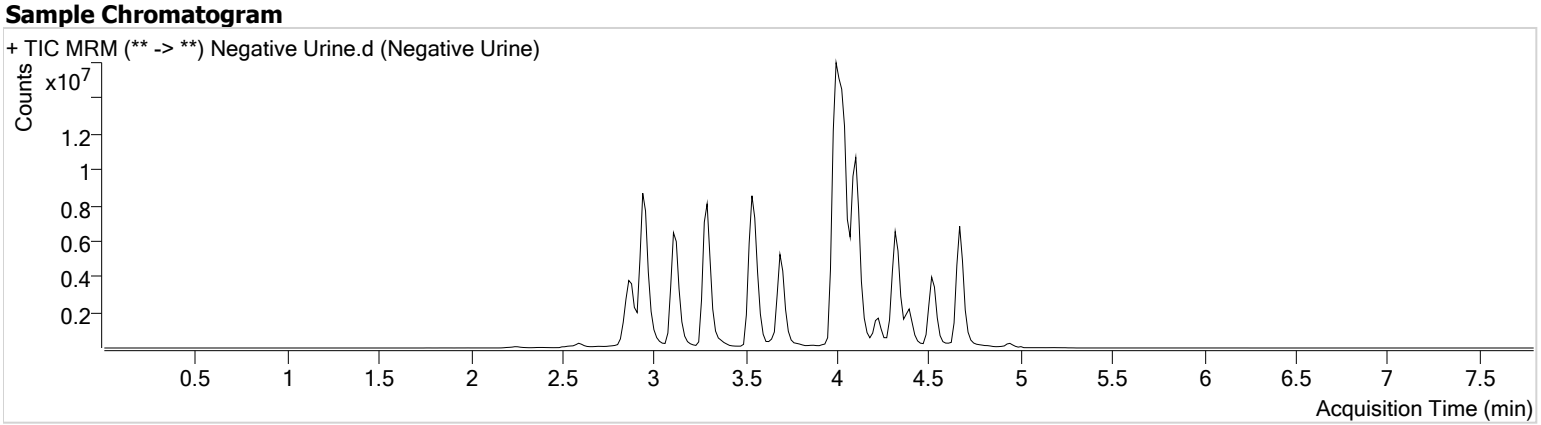


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 12/2/2020 1:25:50 PM

Instrument	Instrument 1	**Data File**	Negative Urine.d
Type	Sample	**Sample**	Negative Urine
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P6-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/2/2020 8:05:30 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Acetyl Norfentanyl	2.886	67642	∞	∞	24302802	2.7876*

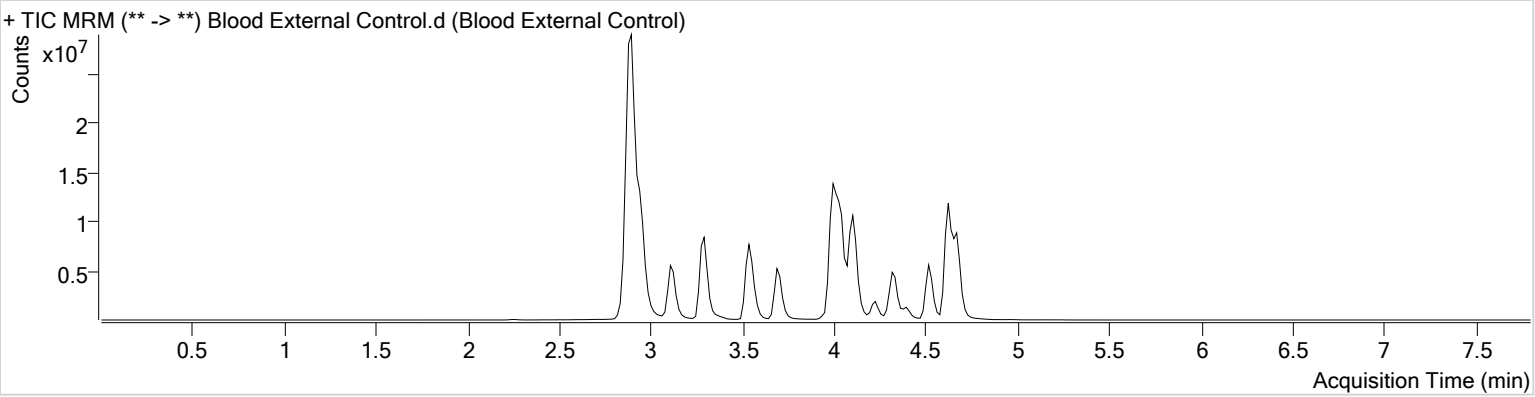
*Okay- reported as negative as ratio is way off.

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 25.batch.bin
Calibration Last Update	12/2/2020 1:25:50 PM

Instrument	Instrument 1	**Data File**	Blood External Control.d
Type	Sample	**Sample**	Blood External Control
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P6-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/2/2020 8:13:54 AM		
Sample Info.			

Sample Chromatogram



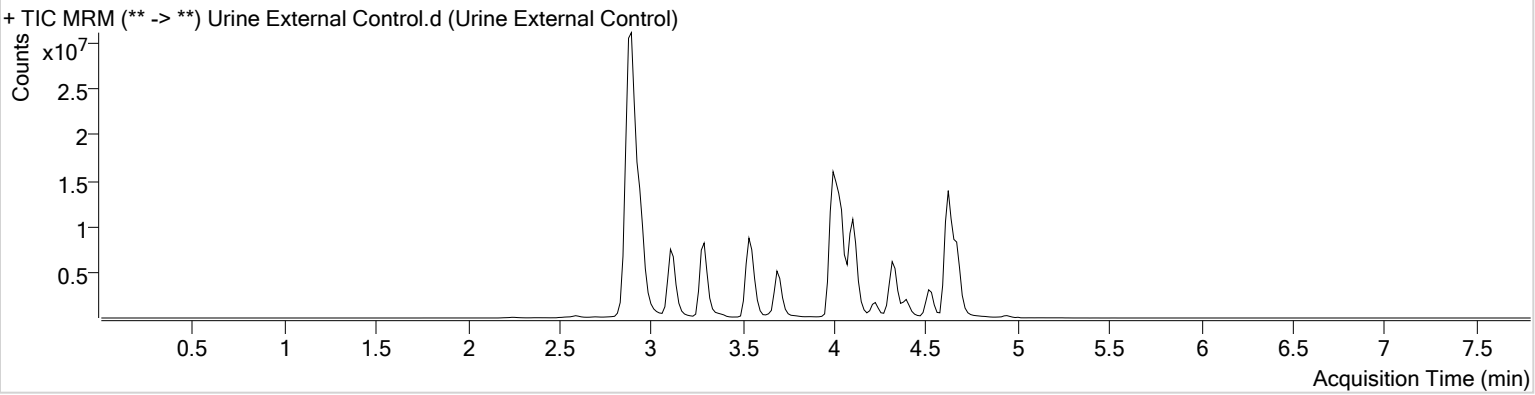
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	17224193	∞	12993.10	21469817	69.1499
Amphetamine	2.890	21438162	∞	3976.23	4957662	73.7679
O-desmethyl-tramadol	2.899	35970729	∞	2957.44	34660758	49.3372

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 12/2/2020 1:25:50 PM

Instrument	Instrument 1	**Data File**	Urine External Control.d
Type	Sample	**Sample**	Urine External Control
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P6-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/2/2020 8:22:19 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	20649078	10985.27	∞	18906790	94.1378
Amphetamine	2.890	24000829	∞	2225.28	4173940	98.0927
O-desmethyl-tramadol	2.899	43677037	20752.52	877.99	36607007	56.7221

SJ CS

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

Extraction Date: 12/01/2020
Plate lot#: IDP-108-2-200723
Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: ~~20K20702~~ 20L20725 CS
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)
Blank Urine Lot: POC031319

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:

Sophia Jackson had a sample, P2020-3404-1, that was included with this batch for AM 26 only. Celena Shrum acted as the primary analyst and performed steps 3-16. I, Sophia Jackson, approved of all steps utilized in this method. SJ

Sample P2020-3404-1 was measured using calibrated Pipette ID 3382167 for step 2 by me, Sophia Jackson. SJ

SJ CS

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		

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:	11/02/2020- Okay for qualitative purposes CS	
Prepared by:	Celena Shrum	

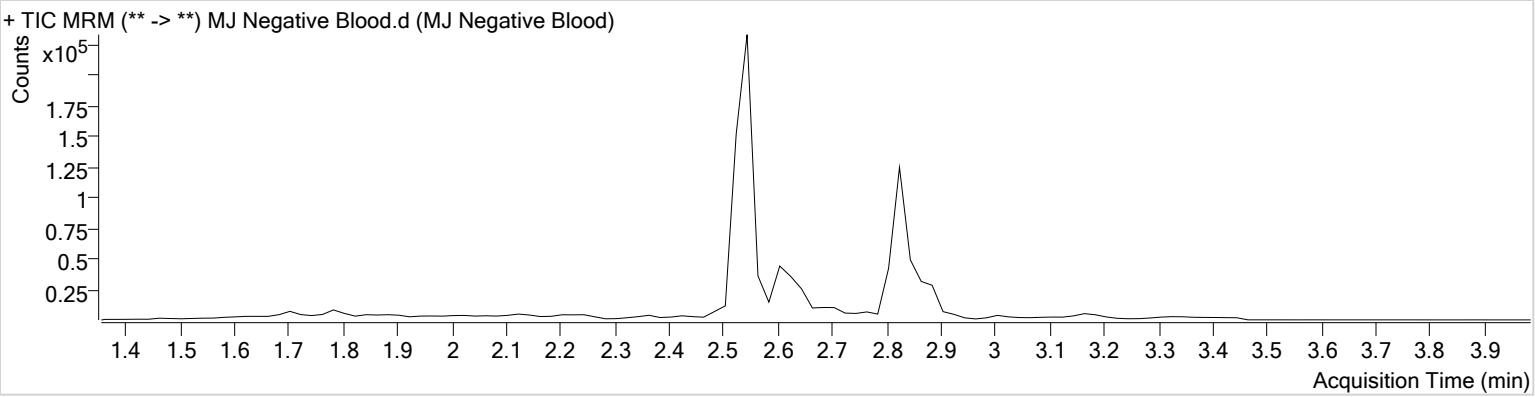
SJ

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update	12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 3:46:23 PM		
Sample Info.			

Sample Chromatogram

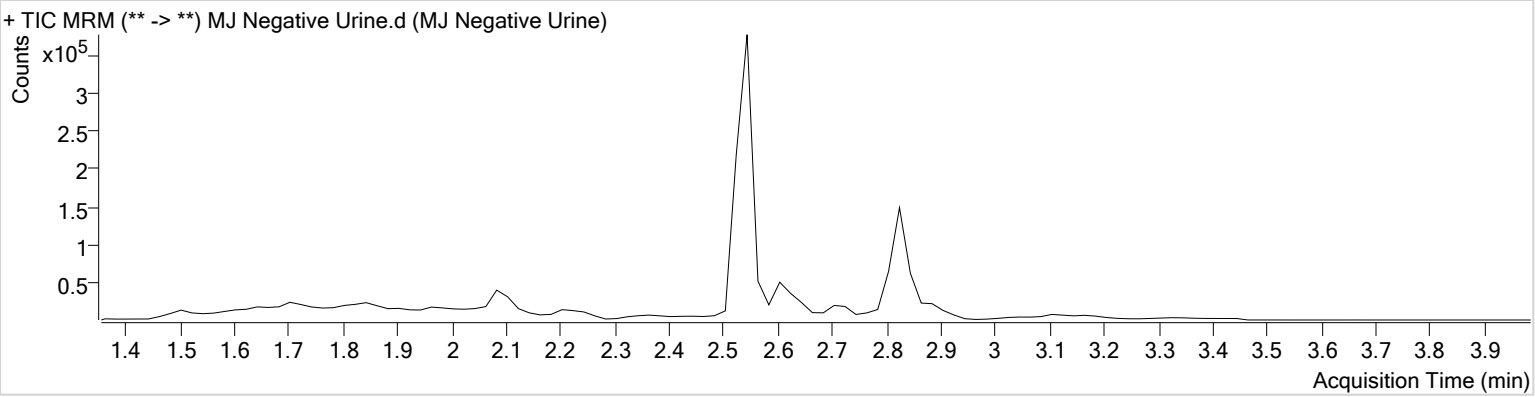


AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update	12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Negative Urine.d
Type	Sample	**Sample**	MJ Negative Urine
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 3:59:30 PM		
Sample Info.			

Sample Chromatogram

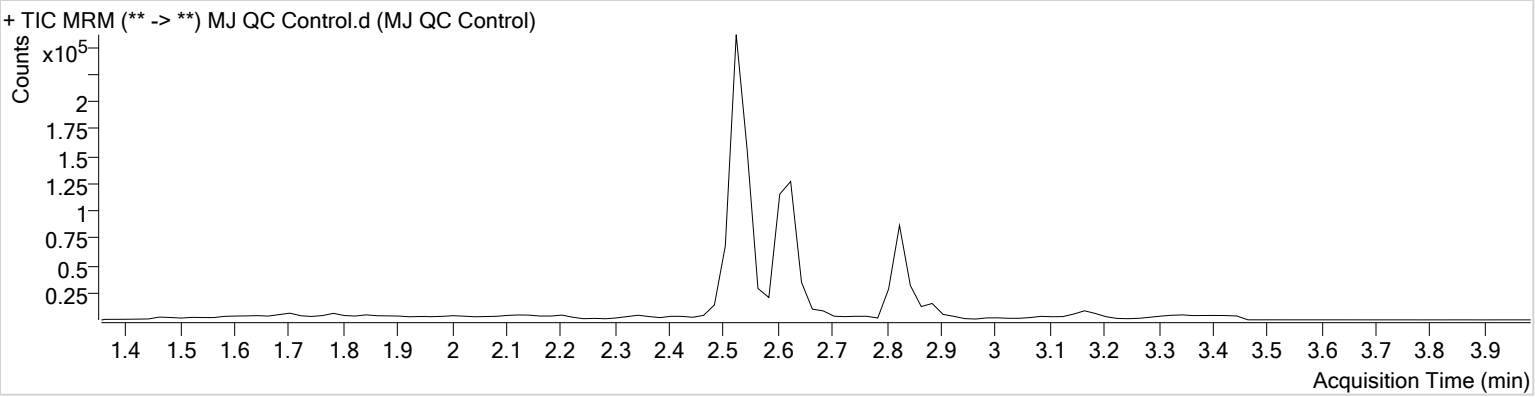


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 3:33:08 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	515	15584	4.0585	ng/ml
THC-COOH	2.625	62330	233380	11.2481	ng/ml
THC-OH	2.532	48803	577117	3.6566	ng/ml

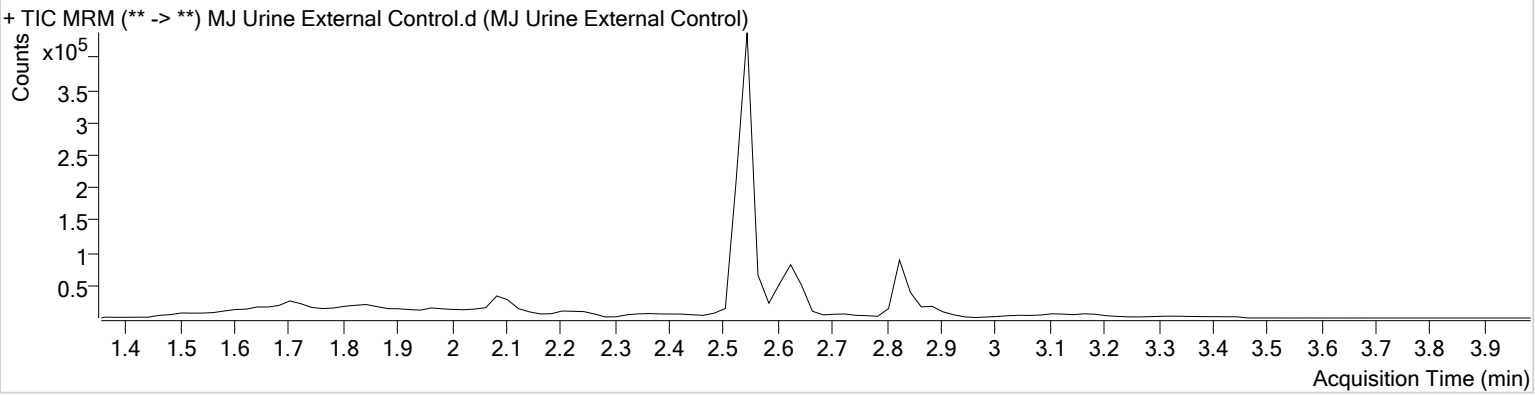
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Urine External Control.d
Type	Sample	**Sample**	MJ Urine External Control
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-C2	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 4:06:02 PM		
Sample Info.			

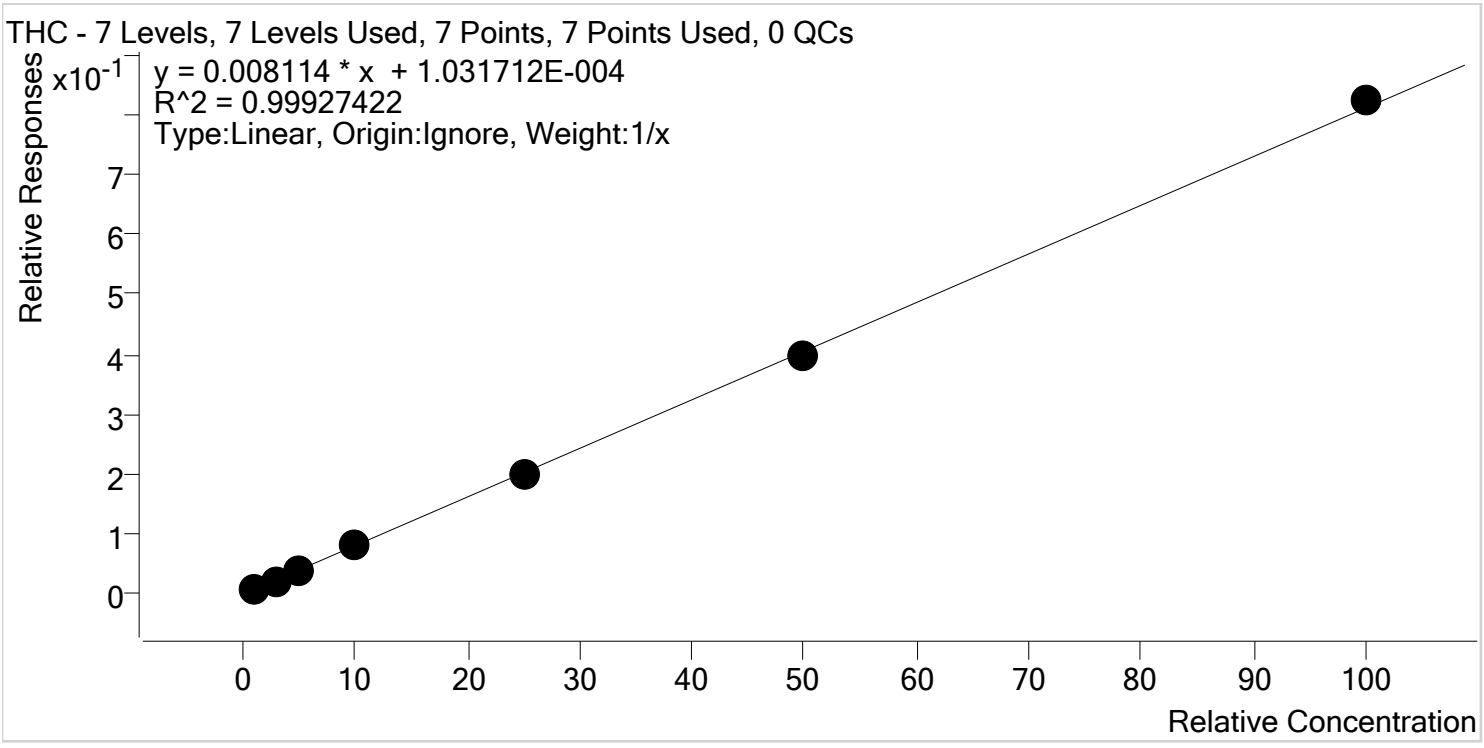
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	1194	23561	6.2319	ng/ml
THC-COOH	2.625	57856	108069	24.5665	ng/ml
THC-OH	2.552	107807	746933	7.2277	ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	12/2/2020 12:38 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3

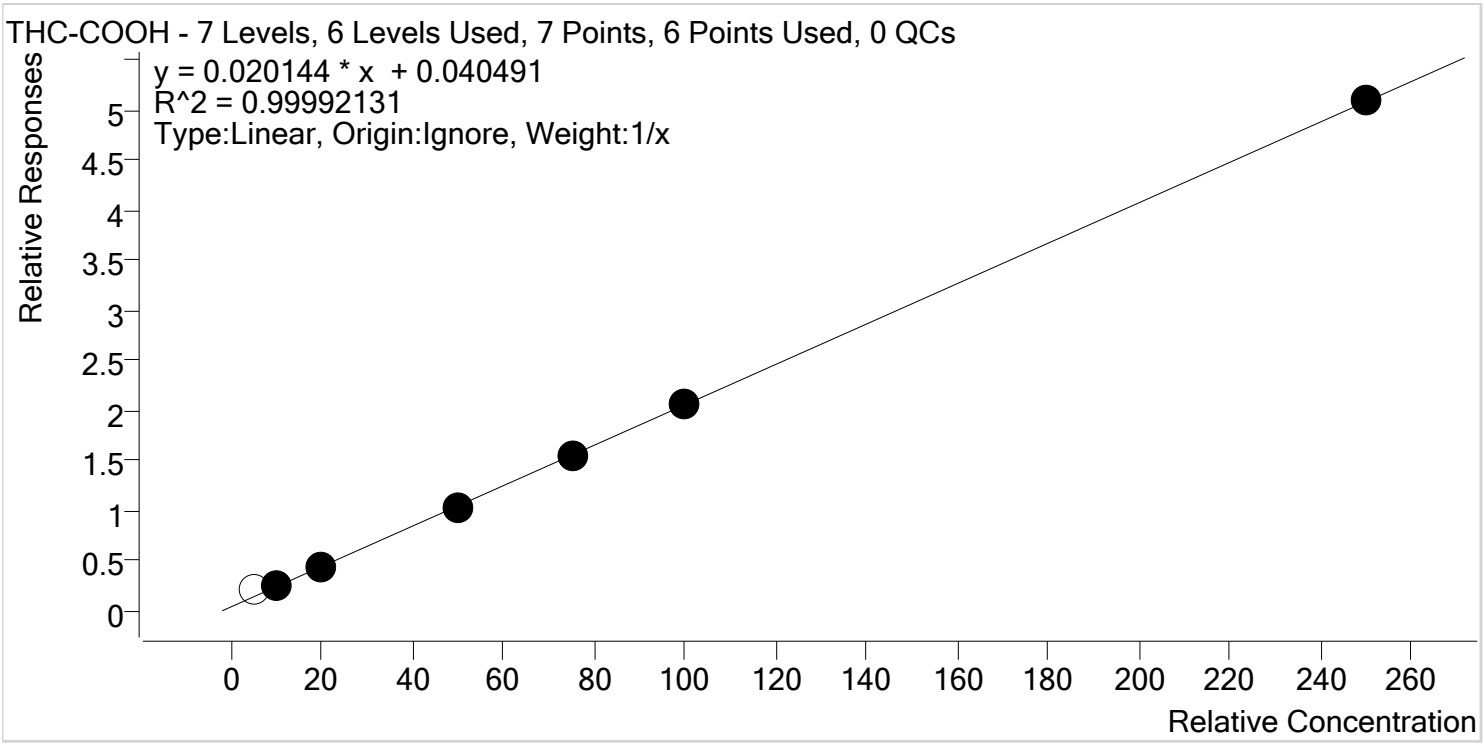


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	114.6
MJ Cal 2	2	✔	3.0	2.6	87.1
MJ Cal 3	3	✔	5.0	5.0	99.1
MJ Cal 4	4	✔	10.0	10.0	100.5
MJ Cal 5	5	✔	25.0	24.9	99.6
MJ Cal 6	6	✔	50.0	48.9	97.7
MJ Cal 7	7	✔	100.0	101.5	101.5

SJ

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 12/2/2020 12:38 PM
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	8.9	178.5
MJ Cal 2	2	✔	10.0	10.0	99.6
MJ Cal 3	3	✔	20.0	20.3	101.5
MJ Cal 4	4	✔	50.0	49.8	99.6
MJ Cal 5	5	✔	75.0	73.9	98.5
MJ Cal 6	6	✔	100.0	100.5	100.5
MJ Cal 7	7	✔	250.0	250.5	100.2

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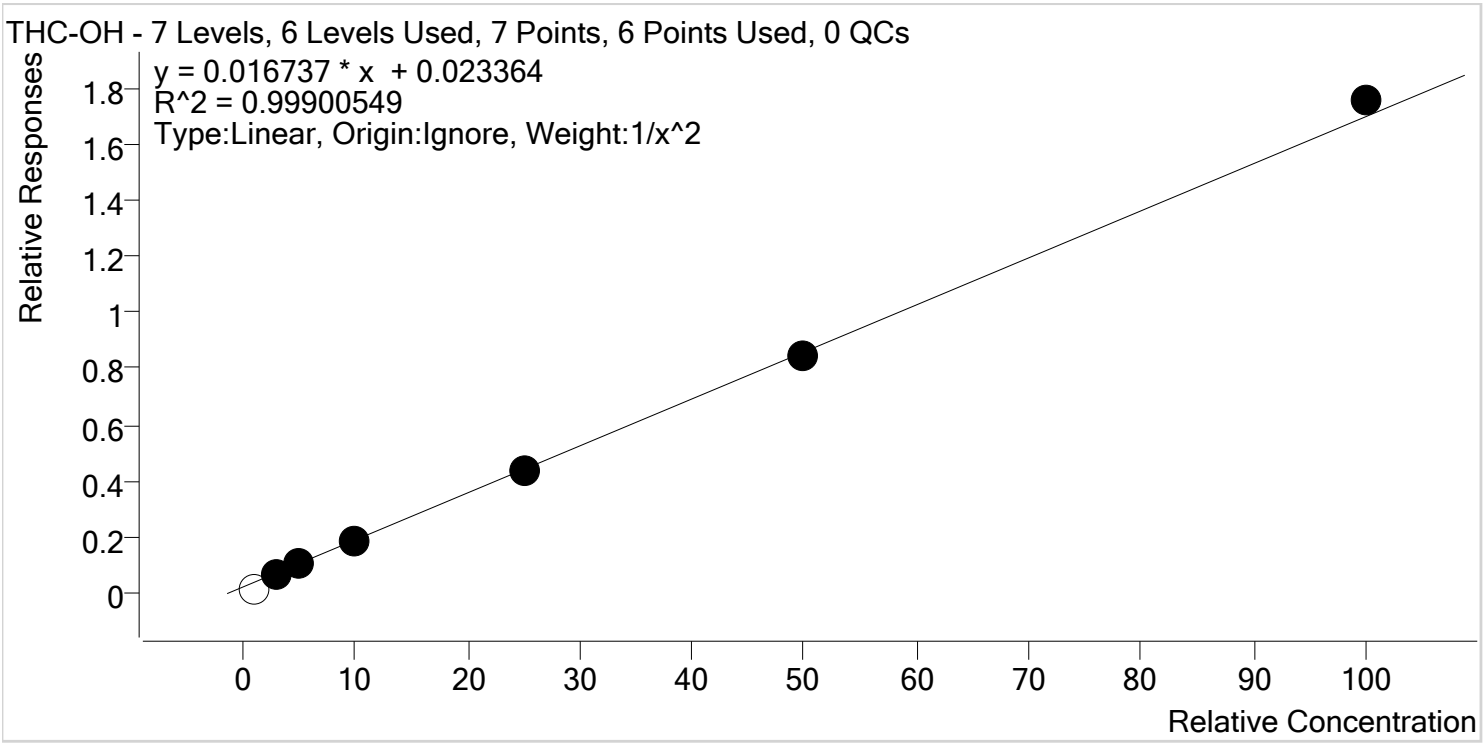
AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 12/2/2020 12:38 PM
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	0.0	0.0
MJ Cal 2	2	✔	3.0	3.0	98.9
MJ Cal 3	3	✔	5.0	5.1	102.8
MJ Cal 4	4	✔	10.0	9.9	98.8
MJ Cal 5	5	✔	25.0	24.6	98.3
MJ Cal 6	6	✔	50.0	48.9	97.8
MJ Cal 7	7	✔	100.0	103.4	103.4

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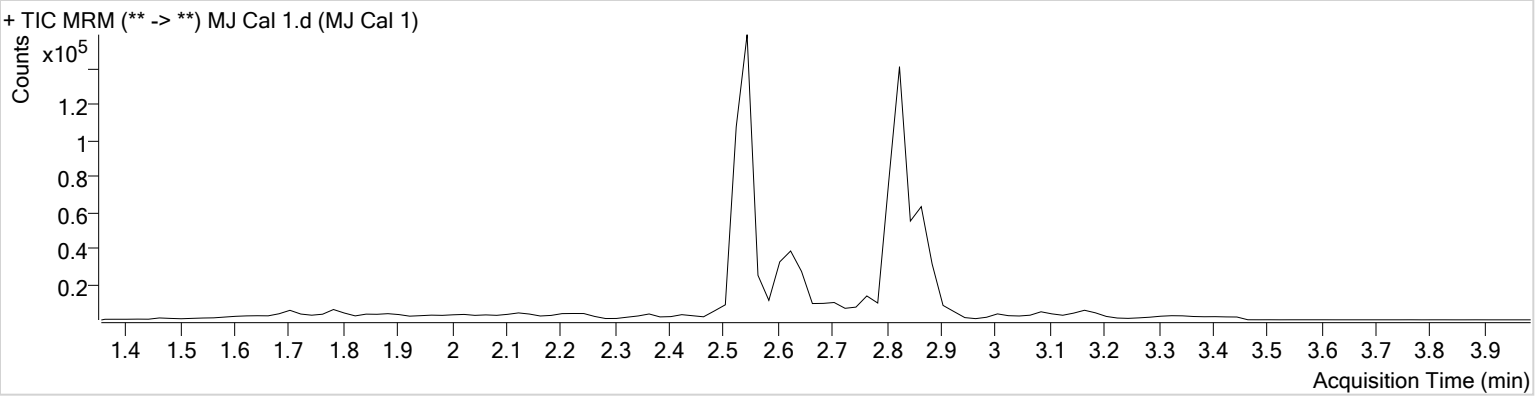
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 2:29:01 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.879	818	87061	1.1456	ng/ml	**Low**
THC-COOH	2.625	17890	81211	8.9259	ng/ml	

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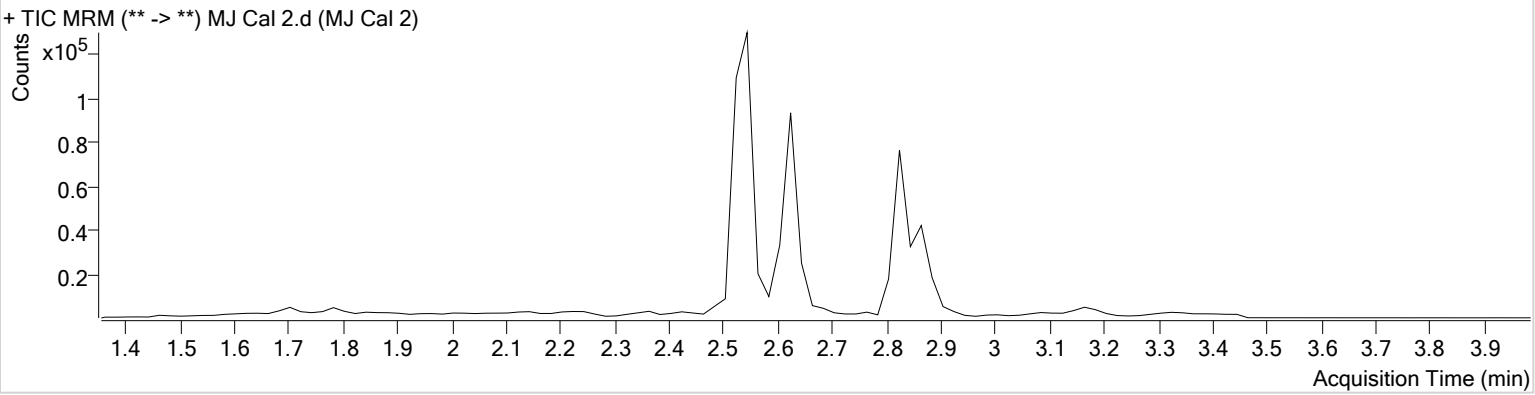
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 2:35:43 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.879	1174	55133	2.6122	ng/ml	**Low**
THC-COOH	2.625	30279	125567	9.9607	ng/ml	
THC-OH	2.552	21305	291727	2.9675	ng/ml	**Low**

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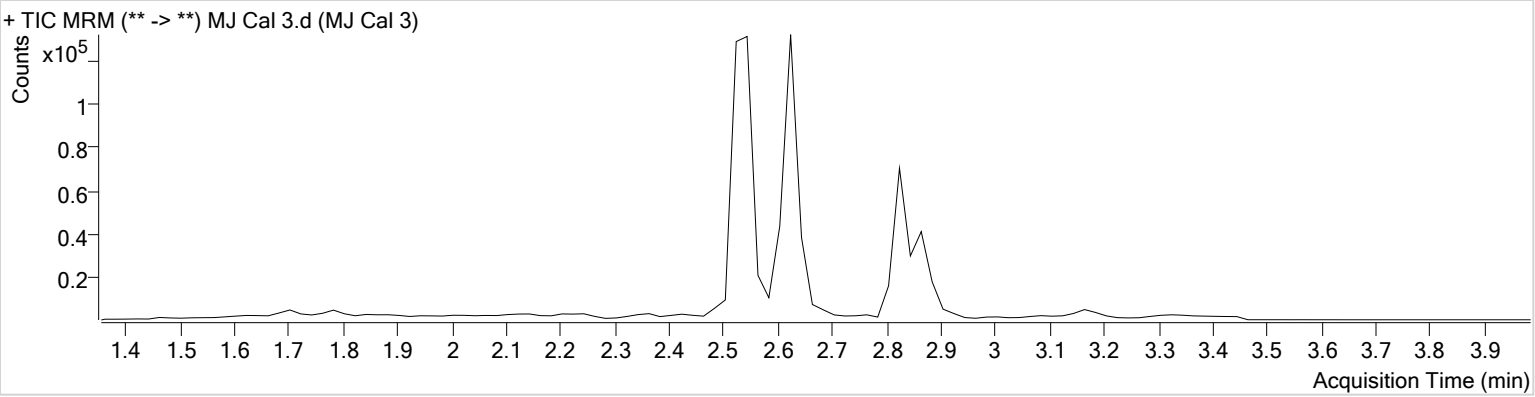
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 2:42:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	2146	53233	4.9551	ng/ml
THC-COOH	2.625	64993	144590	20.3042	ng/ml
THC-OH	2.552	33457	305863	5.1396	ng/ml

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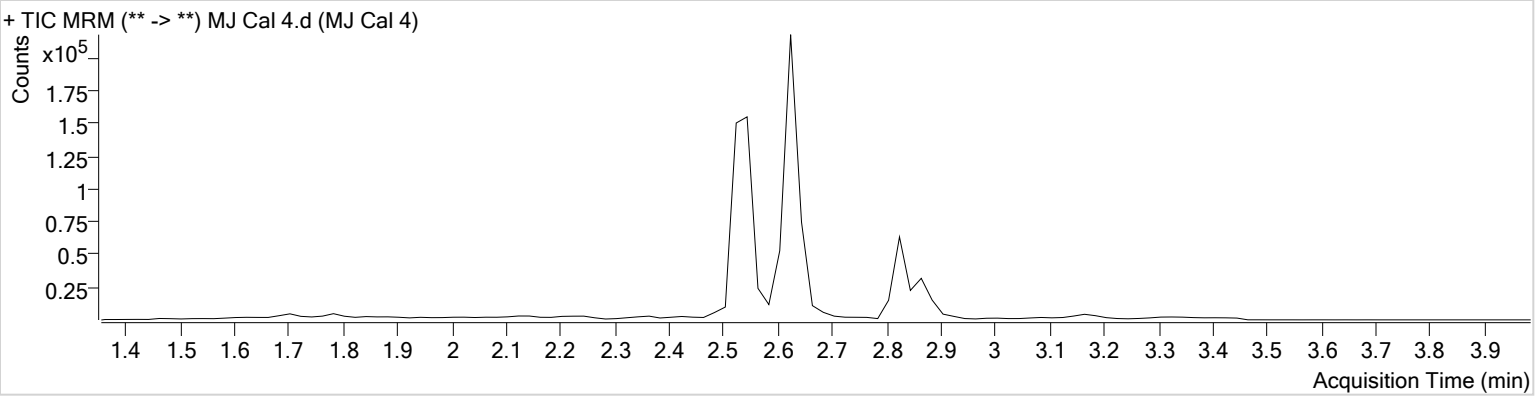
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 2:48:48 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	3316	40627	10.0474	ng/ml
THC-COOH	2.625	157423	150785	49.8177	ng/ml
THC-OH	2.552	62734	332353	9.8820	ng/ml

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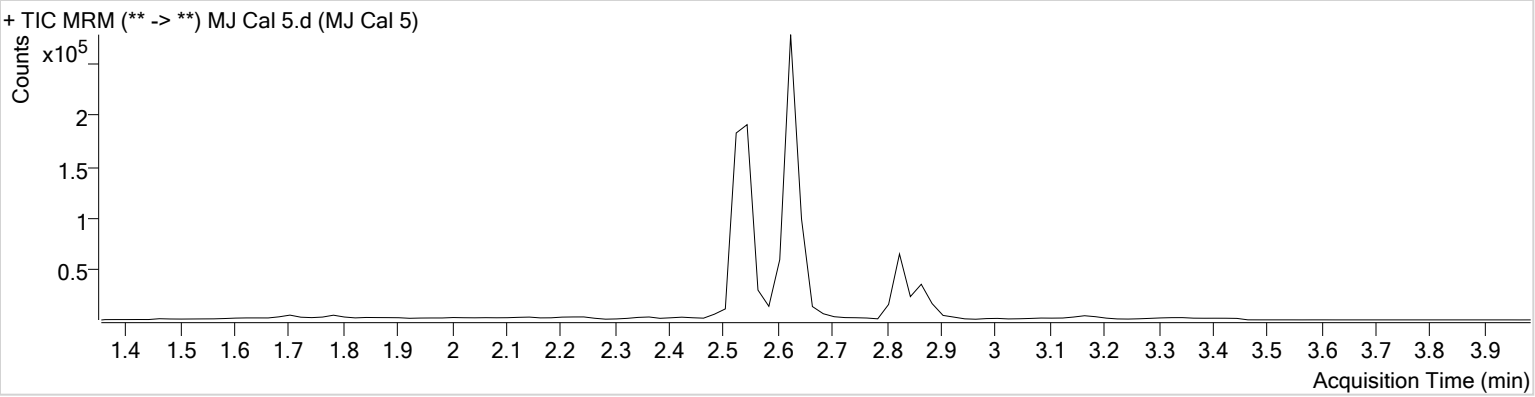
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 2:55:20 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	8197	40556	24.8970 ng/ml
THC-COOH	2.625	228070	149162	73.8937 ng/ml
THC-OH	2.552	144760	333104	24.5695 ng/ml

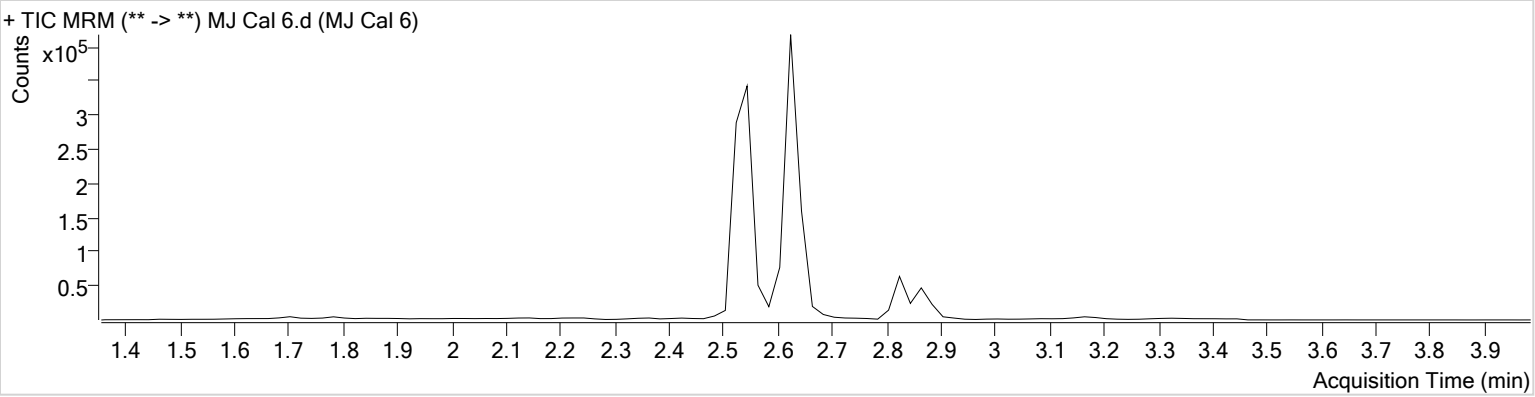
SJ cs

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 6.d
Type	Cal	**Sample**	MJ Cal 6
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 3:01:52 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	20068	50602	48.8645	ng/ml
THC-COOH	2.625	369066	178720	100.5040	ng/ml
THC-OH	2.552	369354	438715	48.9061	ng/ml

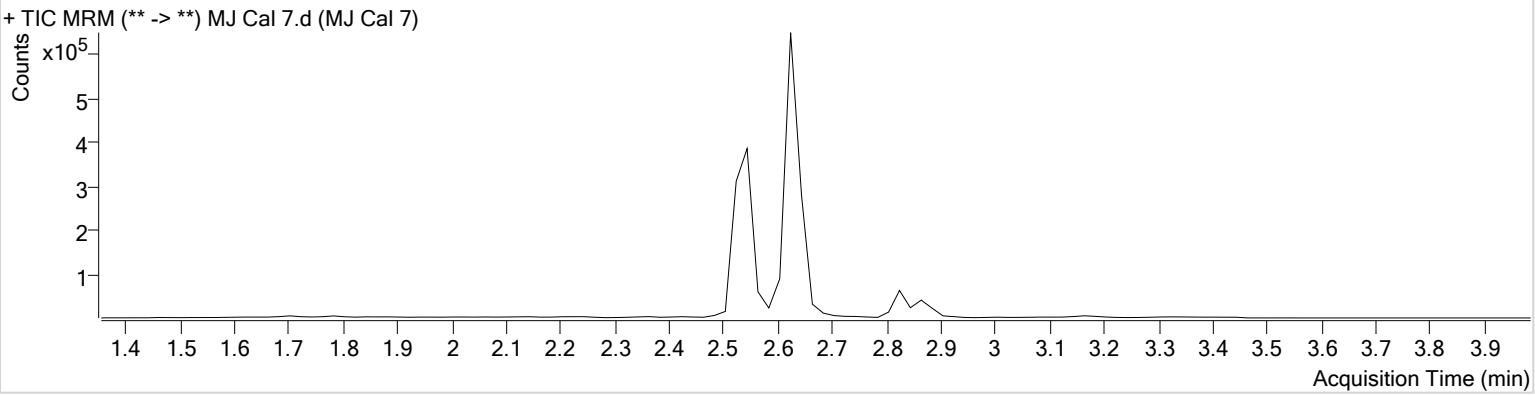
SJ CS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 120120 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 12/2/2020 12:38:07 PM

Instrument	Instrument 1	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	12/1/2020 3:08:25 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	28478	34583	101.4782	ng/ml
THC-COOH	2.625	676350	132957	250.5197	ng/ml
THC-OH	2.552	554799	316364	103.3831	ng/ml