





Worklist: 4819

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-0266	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0297	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0429	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0436	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0437	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0474	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0506	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0534	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0344	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0353	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0354	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0355	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0372	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0377	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0378	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0379	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0389	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0391	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0402	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0403	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0404	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 4819

cg

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-0407	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0413	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0414	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0415	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 02/25/2021

Plate lot#: 200511

Mobile phase A: 10mM Amm Form

Instant Buffer I

Blank Blood Lot: Lampire 20L20724

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. Using a calibrated pipette, pipette **250µL blood** into wells of analytical (standards) plate. **Pipette ID: 42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **200-450µL of blood+base and** mixture to corresponding wells of SLE+ plate.
Amount transferred: 300µl
- 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 **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **900uL ethyl acetate**.
- 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.
- 16. 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: The samples were extracted on 02/25/2021 and some samples were injected on the instrument but there were high pressure issues so the samples were all reinjected on 02/26/2021 with no further issues. Per the method, an external control was included in the run since the plate was expired.

CG

	1	2	3	4	5	6	7	8	9	10	11	12
A					NEG	M2021-0506-2	P2021-0378-1	P2021-0413-1				
B	Cal 1				Ext. Crtl.	M2021-0534-2	P2021-0379-1	P2021-0414-1				
C					M2021-0266-1	P2021-0344-1	P2021-0389-1	P2021-0415-1				
D					M2021-0297-1	P2021-0353-1	P2021-0391-1					
E					M2021-0429-4	P2021-0354-1	P2021-0402-1					
F					M2021-0436-1	P2021-0355-1	P2021-0403-1					
G					M2021-0437-2	P2021-0372-1	P2021-0404-1					
H					M2021-0474-4	P2021-0377-1	P2021-0407-1					



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: 121020)

100 µL of 1mg/mL stock was added to each drug to 9600 µL of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	197468	
Alprazolam	Cerilliant	FE07061604	07/31/2021
Clonazepam	Cerilliant	FE07131603	10/31/2021
Hydrocodone	Cerilliant	FE04241902	09/30/2024
Morphine	Cerilliant	FE06231704	07/31/2022
Prepared:	12/10/2020		
Prepared By:	Tamara Salazar		
Expires:	07/31/2021		

Blood External Control Solution (Lot: WS121020)

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

Approximately 100 ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Lampire	20L20725
Methanol External Control Solution		121020
Prepared:	12/10/2020	
Prepared by:	Tamara Salazar	
Expires:	07/31/2021	

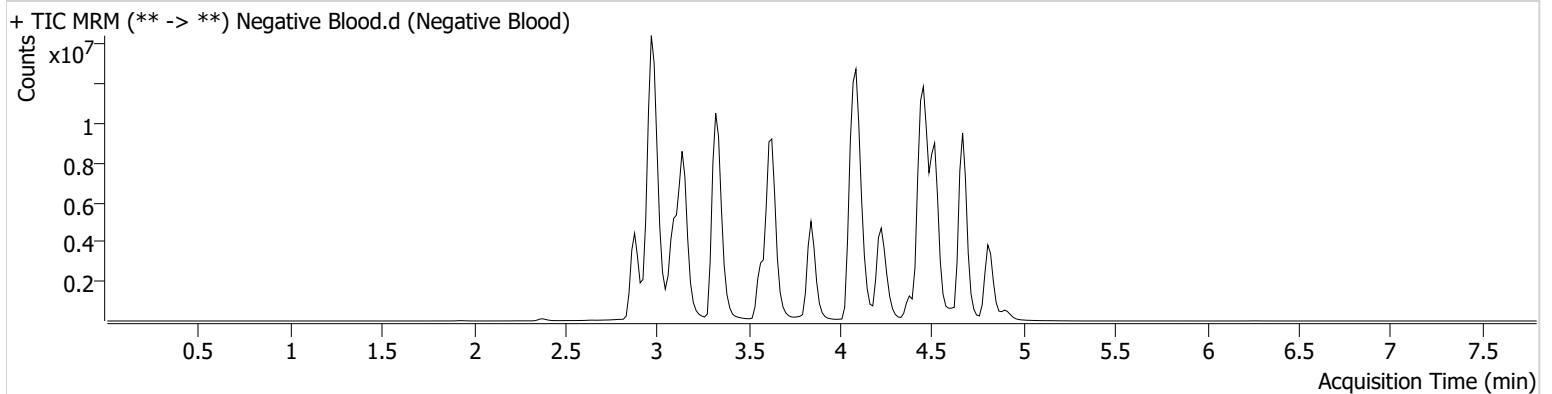
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 25 MDS.batch.bin
Calibration Last Update 3/4/2021 12:08:07 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	P2-A5	Comment	
Injection Volume	5		
Acq. Date-Time	2/26/2021 1:34:02 PM		
Sample Info.			

Sample Chromatogram



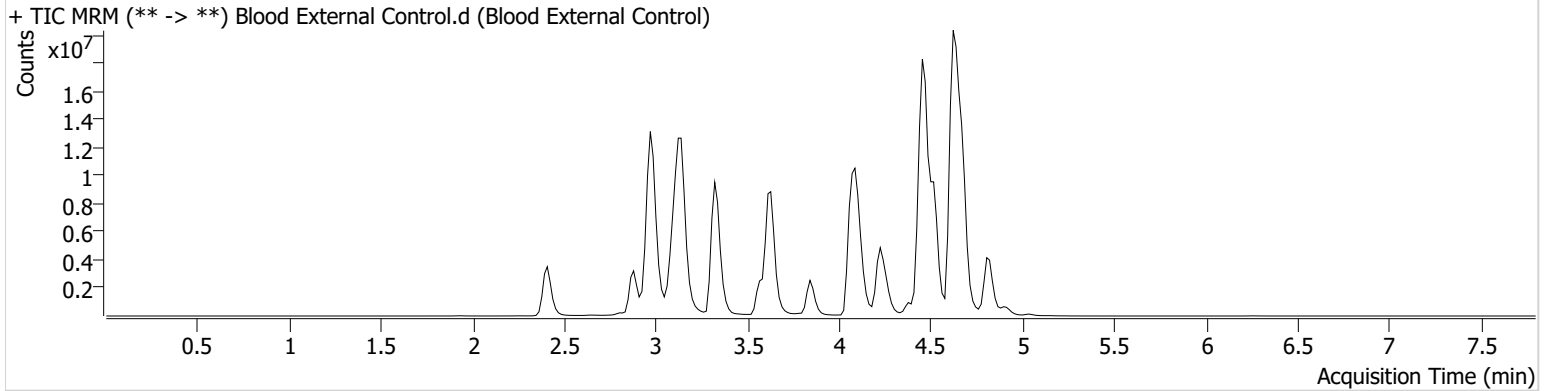
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 25 MDS.batch.bin
Calibration Last Update 3/4/2021 12:08:07 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	P2-B5	Comment	
Injection Volume	5		
Acq. Date-Time	2/26/2021 1:42:27 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	33553352	22982.21	62486.95	30053332	63.0470
Clonazepam	4.455	15347230	∞	18162.11	30053332	82.0653
Dihydrocodeine	2.804	220152	530.50	∞	14408058	1.4698<5
Hydrocodone	3.124	17479585	86.33	∞	14408058	76.7396
Morphine	2.412	3593629	∞	∞	297179	93.8141

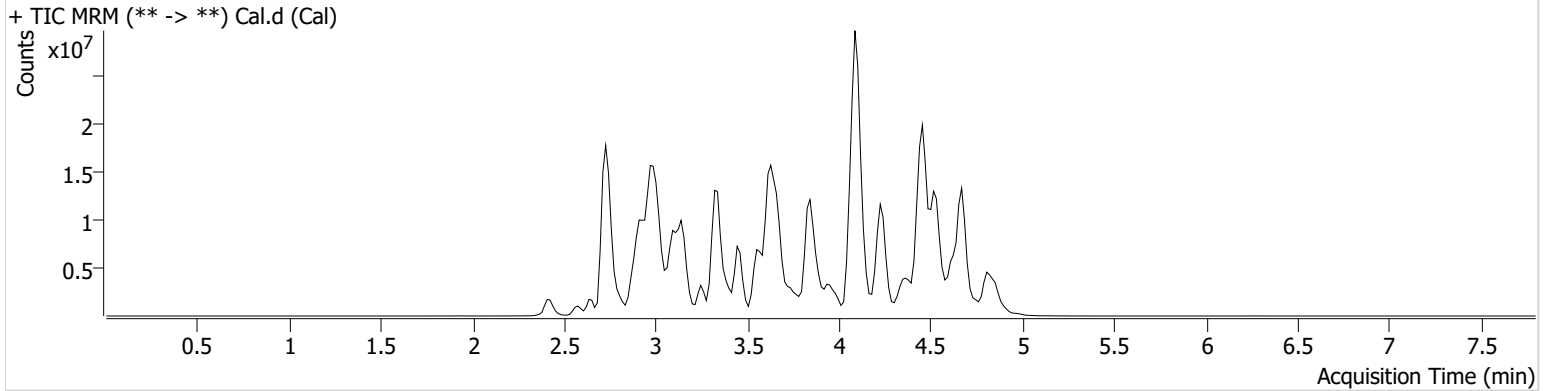
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 25 MDS.batch.bin
Calibration Last Update 3/4/2021 12:08:07 PM

Instrument	Instrument 1	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-B1	Comment	
Injection Volume	5		
Acq. Date-Time	2/26/2021 1:25:26 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.999	84598	29575.21	39.94	2226539	10.0000
7-aminoclonazepam	3.569	1609167	993.51	∞	6672206	10.0000
7-aminoflunitrazepam	3.783	2667193	742.12	1131.05	6672206	10.0000
Acetyl Fentanyl	4.025	211800	91.67	307.23	33715875	10.0000
Acetyl Norfentanyl	2.916	485984	367.89	357.18	33715875	10.0000
α-hydroxyalprazolam	4.531	533335	303.49	18155.99	6672206	10.0000
α-hydroxymidazolam	4.606	3906993	3281.85	3434.58	6672206	10.0000
Alpha-PHP	3.911	3287311	149.98	810.50	33715875	10.0000
α-PVP	3.621	4896545	∞	2996.58	11613082	10.0000
Alprazolam	4.626	4274503	744.40	∞	24138290	10.0000
Amitriptyline	4.507	415692	100.64	36.77	1289393	10.0000
Amphetamine	2.920	4496097	844.97	18487.18	11613082	10.0000
Benzoylcegonine	3.385	1633519	891.18	∞	745315	10.0000
Brompheniramine	4.087	53042	2467.39	176.63	31567175	10.0000
Buprenorphine	4.968	432368	1790.52	147.28	1835297	10.0000
Bupropion	3.880	3937385	2954.14	1010.23	14338625	10.0000
Carbamazepine	4.250	13623958	∞	∞	780857	10.0000
Carisoprodol	4.233	1730363	672.18	283.68	10499572	10.0000
Chlordiazepoxide	4.750	1544716	1079.57	643.60	24138290	10.0000
Chlorpheniramine	3.984	4749769	571.11	7.03	31567175	10.0000
Citalopram	4.101	1930991	2648.86	504745.70	31567175	10.0000
Clomipramine	4.717	488921	∞	∞	31567175	10.0000
Clonazepam	4.455	1502049	890.25	250828.72	24138290	10.0000
Clonazolam	4.375	2314186	686.17	609.25	24138290	10.0000
Cocaethylene	3.826	5961822	∞	5279.94	31322358	10.0000
Cocaine	3.629	6617313	6534.89	1113.38	31322358	10.0000
Codeine	2.927	561982	479.64	414.34	14209443	10.0000
Cyclobenzaprine	4.416	546833	304.88	43.85	1289393	10.0000
Desipramine	4.416	717392	857.94	283.55	1289393	10.0000
Dextromethorphan	4.124	1066332	4628.10	342.35	5639881	10.0000
Dextrorphan	3.403	3309174	∞	1777.16	5639881	10.0000
Diazepam	4.858	1382390	2294.18	7227.58	24138290	10.0000
Dihydrocodeine	2.804	1477222	∞	∞	14209443	10.0000
Diphenhydramine	4.079	5513576	381.18	∞	31567175	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.214	569604	336.39	107.30	13822340	10.0000
Doxylamine	3.662	11809871	497688.71	76045.35	5639881	10.0000
EDDP	4.092	5378043	∞	7322.48	2847222	10.0000
Estazolam	4.535	9145085	678.97	823.57	24138290	10.0000
Etizolam	4.636	572367	48343.05	313407.44	24138290	10.0000
Fentanyl	4.254	103212	∞	40129.16	5976382	10.0000
Flualprazolam	4.484	1710206	85434.14	563283.90	24138290	10.0000
Flunitrazepam	4.579	3247515	118919.28	6531.26	24138290	10.0000
Fluoxetine	4.365	340755	1028.50	∞	855552	10.0000
Flurazepam	4.313	2942715	1837878.53	325.15	24138290	10.0000
Hydrocodone	3.124	2246379	112.81	131.78	14209443	10.0000
Hydromorphone	2.579	1664009	∞	∞	303754	10.0000
Imipramine	4.460	1131055	6291.39	448.12	1289393	10.0000
Ketamine	3.743	5290305	6773.09	∞	19730241	10.0000
Lamotrigine	3.633	414133	∞	∞	31567175	10.0000
Levamisole	3.070	3580369	1673751.87	301.72	31322358	10.0000
Levetiracetam	2.644	1771150	726.14	1261.70	31567175	10.0000
Lorazepam	4.454	600290	∞	35.64	24138290	10.0000
Maprotiline	4.507	415692	100.64	26.55	1289393	10.0000
MDA	3.025	3313653	1694.59	3288.30	27936659	10.0000
MDEA	3.253	5806787	3871.00	924.05	27936659	10.0000
MDMA	3.101	6873980	3054704.73	620.56	27936659	10.0000
Meperidine	3.665	2937615	166.76	1920.62	5639881	10.0000
Meprobamate	3.668	1088994	4309.40	740.39	10499572	10.0000
Methadone	4.426	3136469	316.43	269.61	2847222	10.0000
Methamphetamine	3.026	7240222	∞	1498.86	27936659	10.0000
Methocarbamol	3.588	1018340	∞	∞	2847222	10.0000
Methylphenidate	3.558	11209901	∞	1555.29	21157726	10.0000
Metoprolol	3.448	849524	391.06	786.27	5639881	10.0000
Midazolam	4.775	704666	770.97	∞	24138290	10.0000
Mirtazapine	4.217	2443055	99849.27	2725.16	5639881	10.0000
Mitragynine	4.328	204163	912.29	276077.01	5639881	10.0000
Morphine	2.412	391533	11.28	∞	303754	10.0000
Norbuprenorphine	3.868	57461	232.37	64528.68	1835297	10.0000
Nordiazepam	4.707	1492644	∞	596.70	24138290	10.0000
Norfentanyl	3.344	8640084	4342.08	∞	33715875	10.0000
Norhydrocodone	2.959	47745	∞	28.13	303754	10.0000
Norketamine	3.867	1050934	580.38	∞	19730241	10.0000
Normeperidine	3.621	2266382	151200.42	583.36	31567175	10.0000
Noroxycodone	2.911	2941885	123.84	196.46	19730241	10.0000
Nortriptyline	4.463	228323	367.73	170.19	1289393	10.0000
O-desmethyl-tramadol	2.930	9736525	∞	426.57	31567175	10.0000
Olanzapine	3.934	469724	1326.04	61.56	780857	10.0000
Oxazepam	4.536	3422000	∞	386.58	19730925	10.0000
Oxycodone	2.985	4258175	∞	∞	19730241	10.0000
Oxymorphone	2.423	3755295	678.37	547.10	303754	10.0000
Paroxetine	4.377	56550	33.16	1594.22	855552	10.0000
Phenazepam	4.651	2471882	262596.40	2706.24	24138290	10.0000
Phencyclidine	3.957	4399026	44844.48	350.22	5639881	10.0000
Phentermine	3.163	1791480	∞	∞	21157726	10.0000
Phenytoin	4.141	1460582	∞	∞	780857	10.0000
Promethazine	4.429	1227228	1979.15	111.90	31567175	10.0000
Pseudoephedrine	2.736	49730088	∞	8067.83	27936659	10.0000
Quetiapine	4.665	2404157	∞	287.47	43607186	10.0000
Sertraline	4.611	159394	157.27	180.41	855552	10.0000
Sufentanil	4.665	63097	20485.65	55.56	33715875	10.0000
Tapentadol	3.468	5941439	2057.08	910.57	19730241	10.0000
Temazepam	4.673	4980068	1934.64	304.05	24138290	10.0000
Tramadol	3.449	11109640	∞	204.34	31567175	10.0000
Trazodone	4.849	2849249	290.03	457.76	13822340	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.830	7935808	670.16	456.83	855552	10.0000
Zaleplon	4.350	3380467	223380.29	585.24	43607186	10.0000
Zolpidem	4.457	13460720	8910.47	3229.72	43607186	10.0000
Zopiclone	4.389	603132	138.63	239.17	3278792	10.0000

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

Extraction Date: 02/25/2021

Analyst: Celena Shrum

Plate lot#: IDP-108-2-201206

Plate Expiration: 06/06/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: 20L20724

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

LCMS-QQQ 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. Using a calibrated pipette, add **1000µl blood (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** 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, R² 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: The samples were extracted on 02/25/2021 and injected on the instrument but there were high pressure issues so the samples were all reinjected on 02/26/2021 with no further issues. The low QC was reinjected due to decreased ISTD response.

THC-OH not evaluated.

	1	2	3	4	5	6
a	cal 1ng	Blood NC	M2021-0534-2	P2021-0379-1	P2021-0414-1	
b	cal 3 ng	M2021-0266-1	P2021-0344-1	P2021-0389-1	P2021-0415-1	
c	cal 5 ng	M2021-0297-1	P2021-0353-1	P2021-0391-1		
d	cal 10ng	M2021-0429-4	P2021-0354-1	P2021-0402-1		
e	cal 25 ng	M2021-0436-1	P2021-0355-1	P2021-0403-1		
f	cal 50 ng	M2021-0437-2	P2021-0372-1	P2021-0404-1		
g	cal 100 ng	M2021-0474-4	P2021-0377-1	P2021-0407-1		
h	QC 1	M2021-0506-2	P2021-0378-1	P2021-0413-1		

AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

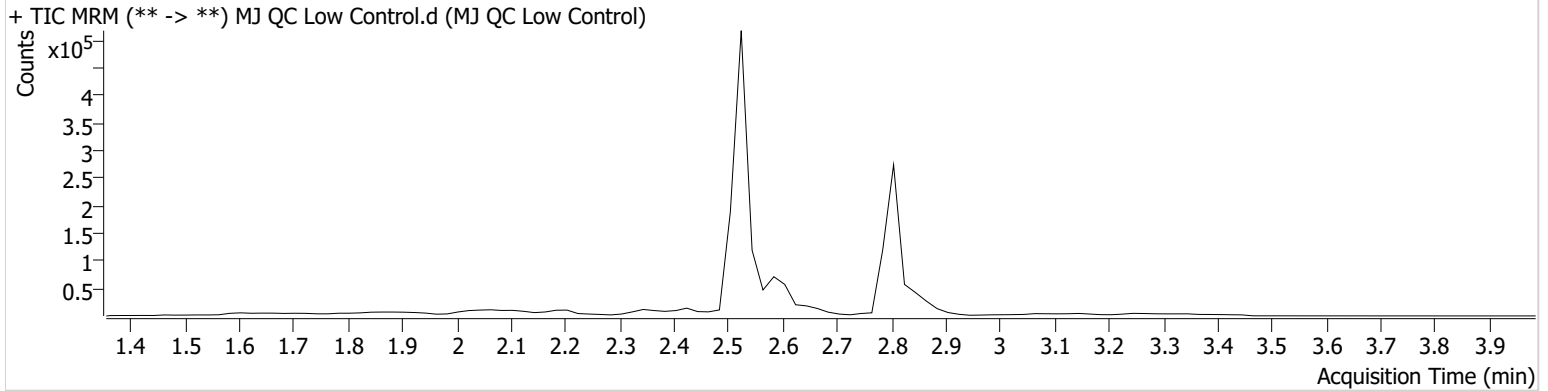
Instrument Instrument 1
Type Sample
Acq. Method AM 26 THCS.m
Sample Position P1-H1
Injection Volume 10
Acq. Date-Time 2/26/2021 12:39:41 PM
Sample Info.

Data File MJ QC Low Control.d
Sample MJ QC Low Control
Operator Celena Shrum
Comment

VOID

Sample had to be reinjected due to low ISTD responses. Refer to reinject data. *CS*

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	1387	33994	4.2384 ng/ml
THC-COOH	2.585	53628	100381	29.7418 ng/ml
THC-OH	2.532	44311	949172	2.4470 ng/ml Low

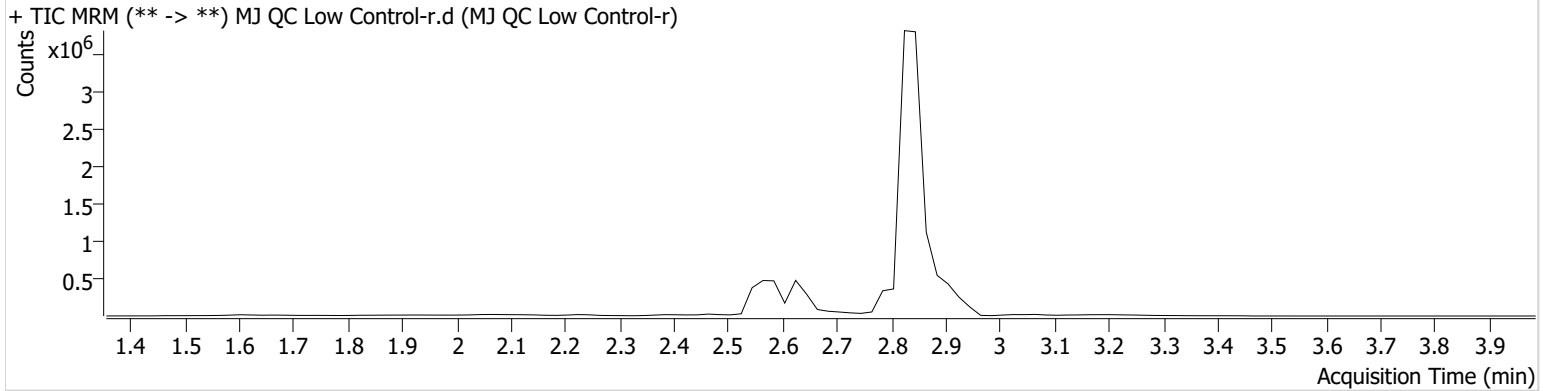
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

Instrument	Instrument 1	Data File	MJ QC Low Control-r.d
Type	Sample	Sample	MJ QC Low Control-r
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	3/1/2021 8:44:27 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.899	5646	142927	4.0656 ng/ml
THC-COOH	2.645	188294	689003	15.2214 ng/ml
THC-OH	2.572	177898	1483122	6.1931 ng/ml

AM #26 Cannabinoids Screen Results

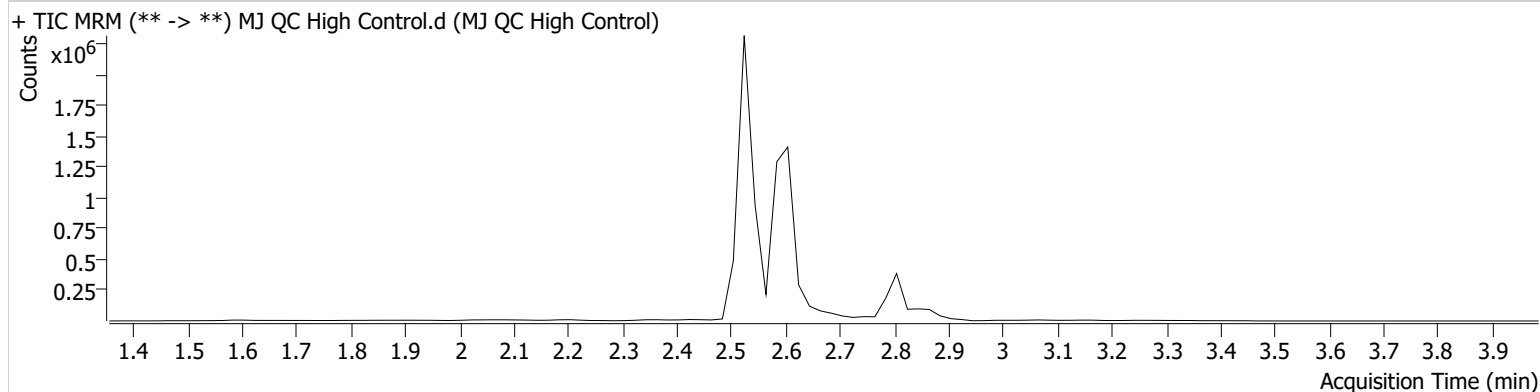


Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

Instrument	Instrument 1	Data File	MJ QC High Control.d
Type	Sample	Sample	MJ QC High Control
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	2/26/2021 9:08:51 AM		

Sample Info.

Sample Chromatogram

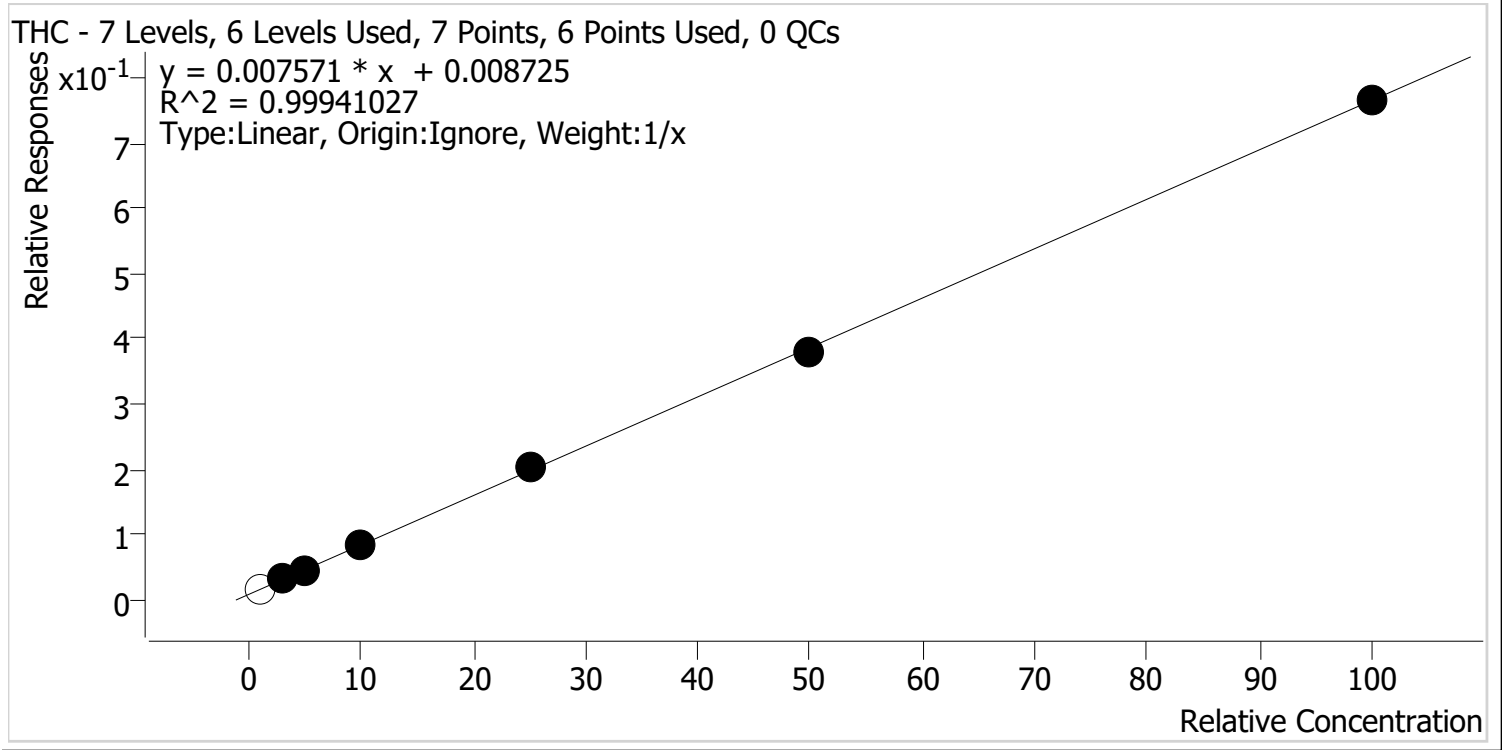


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	55423	70678	102.4279 ng/ml
THC-COOH	2.605	2048645	406378	280.5199 ng/ml
THC-OH	2.532	2360203	2028314	59.5580 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Last Cal. Update 3/1/2021 10:17 AM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-D3



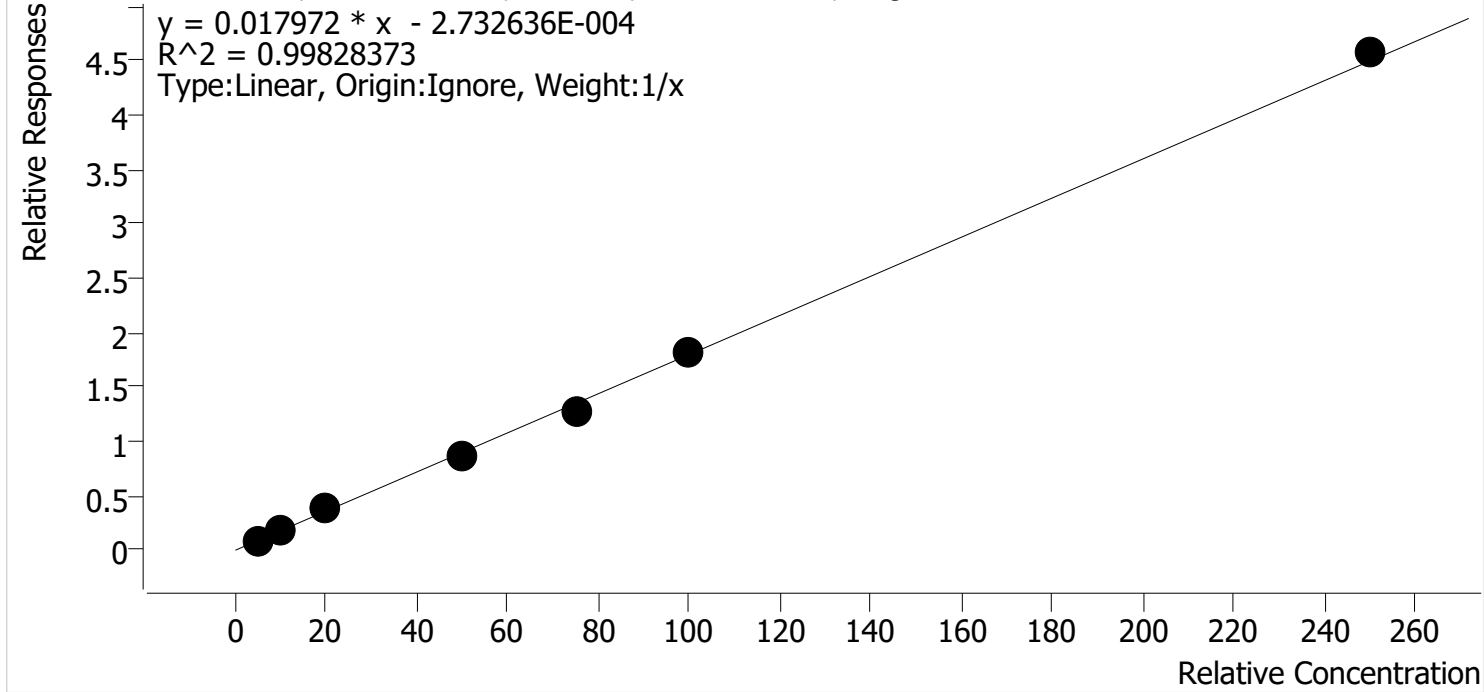
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	1.1	114.9
MJ Cal 2	2	✓	3.0	3.1	103.5
MJ Cal 3	3	✓	5.0	4.6	91.7
MJ Cal 4	4	✓	10.0	10.3	103.0
MJ Cal 5	5	✓	25.0	25.8	103.2
MJ Cal 6	6	✓	50.0	49.3	98.6
MJ Cal 7	7	✓	100.0	99.9	99.9



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Last Cal. Update 3/1/2021 10:17 AM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

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



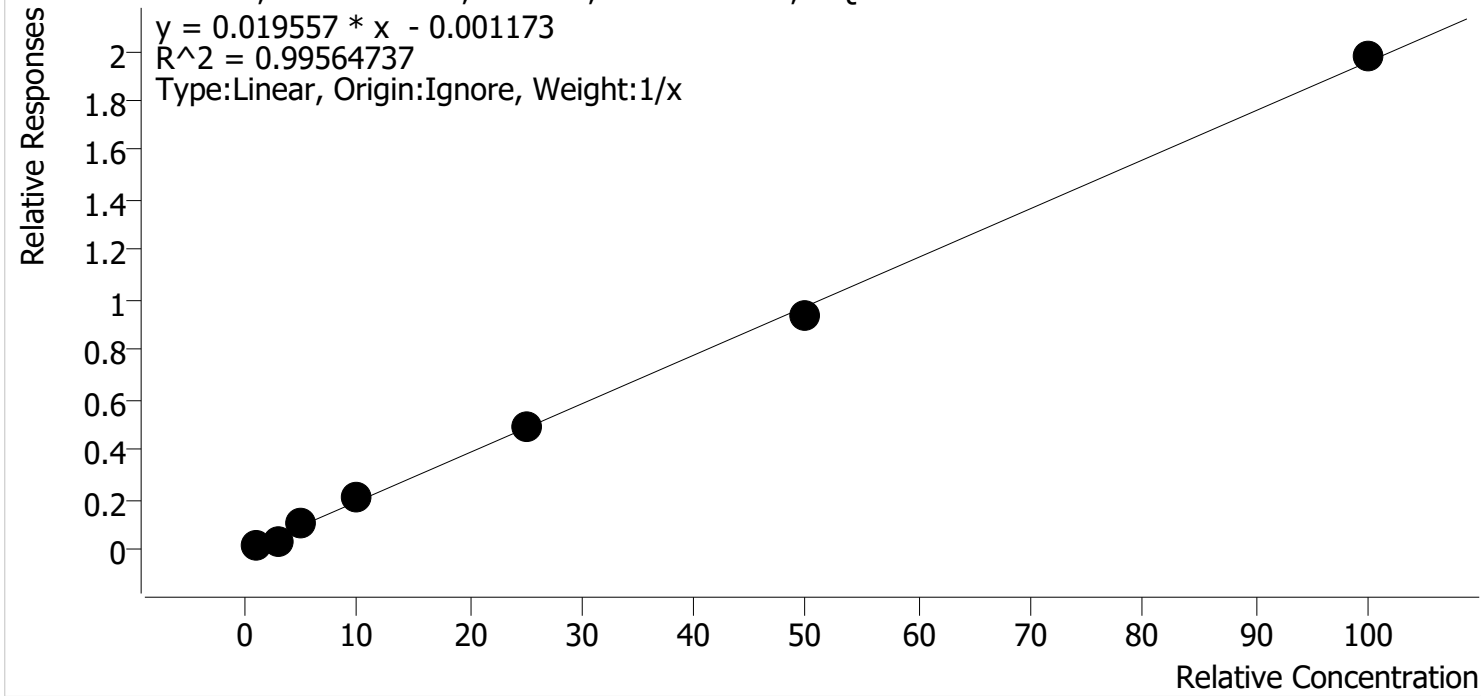
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	4.9	97.4
MJ Cal 2	2	✓	10.0	10.3	102.7
MJ Cal 3	3	✓	20.0	21.6	108.1
MJ Cal 4	4	✓	50.0	47.8	95.6
MJ Cal 5	5	✓	75.0	70.0	93.3
MJ Cal 6	6	✓	100.0	101.2	101.2
MJ Cal 7	7	✓	250.0	254.3	101.7



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Last Cal. Update 3/1/2021 10:17 AM
Analyst Name ISP\Datastor
Analyte THC-OH **Internal Standard** THC-OH-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.2	116.4
MJ Cal 2	2	✓	3.0	1.9	61.9
MJ Cal 3	3	✓	5.0	5.9	117.9
MJ Cal 4	4	✓	10.0	10.6	105.7
MJ Cal 5	5	✓	25.0	25.1	100.4
MJ Cal 6	6	✓	50.0	48.3	96.7
MJ Cal 7	7	✓	100.0	101.1	101.1

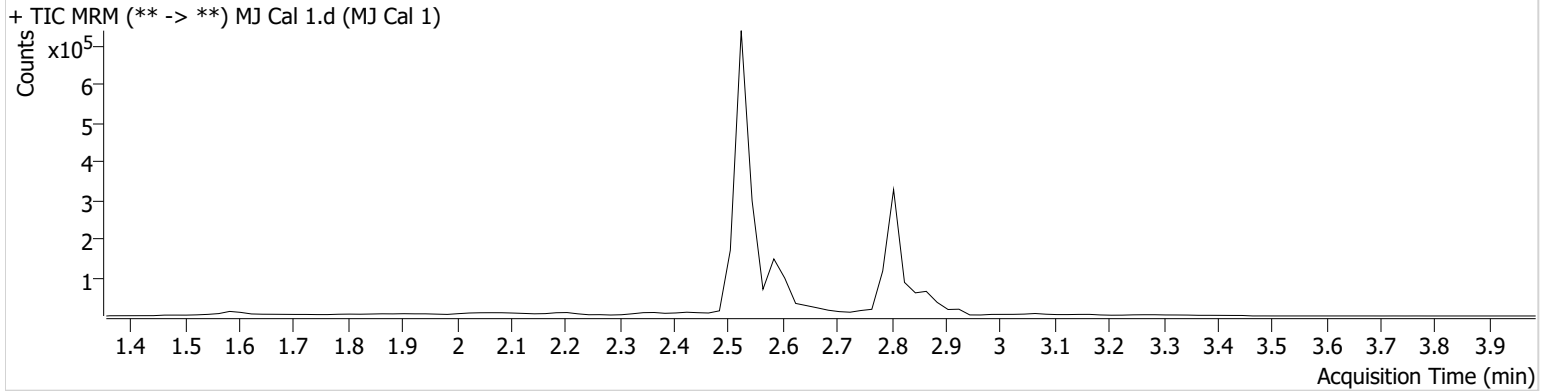
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

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	2/26/2021 8:16:28 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	1115	64010	1.1487 ng/ml	Low
THC-COOH	2.605	21528	246841	4.8680 ng/ml	Low
THC-OH	2.552	31402	1454933	1.1636 ng/ml	Low



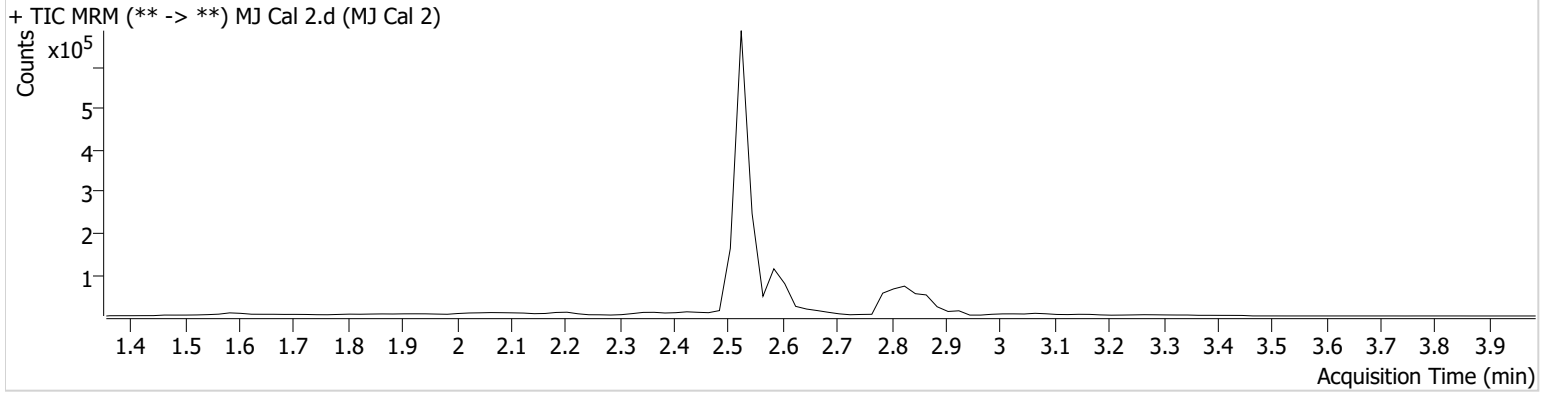
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

Instrument Instrument 1
Type Cal
Acq. Method AM 26 THCS.m
Sample Position P1-B1
Injection Volume 10
Acq. Date-Time 2/26/2021 8:23:09 AM
Sample Info.

Data File MJ Cal 2.d
Sample MJ Cal 2
Operator Celena Shrum
Comment

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	1749	54246	3.1060 ng/ml
THC-COOH	2.605	34774	188627	10.2729 ng/ml
THC-OH	2.532	45204	1286566	1.8565 ng/ml Low

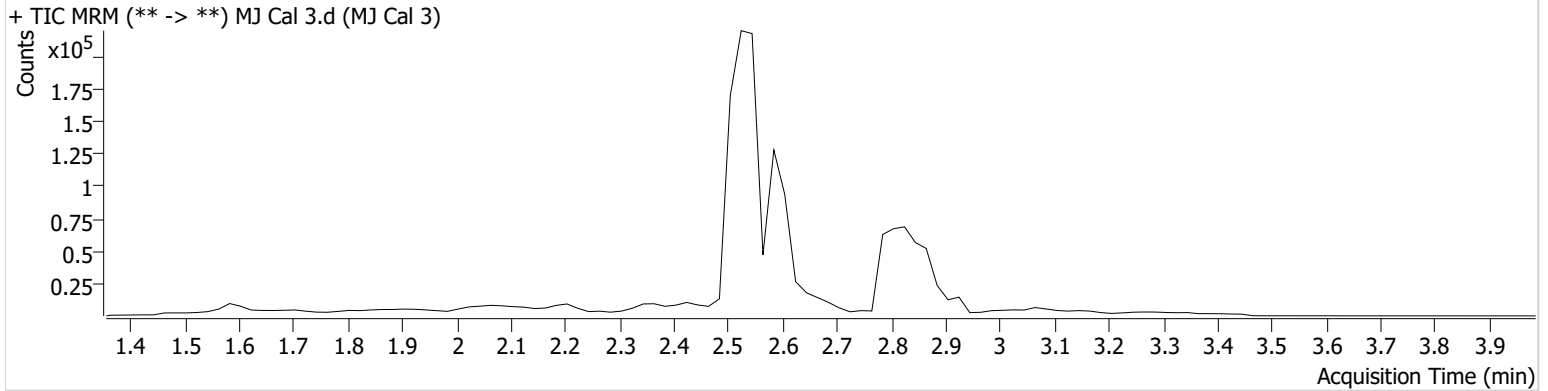
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

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	2/26/2021 8:29:41 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	2299	52908	4.5868 ng/ml
THC-COOH	2.605	67970	175049	21.6205 ng/ml
THC-OH	2.532	75547	661970	5.8953 ng/ml

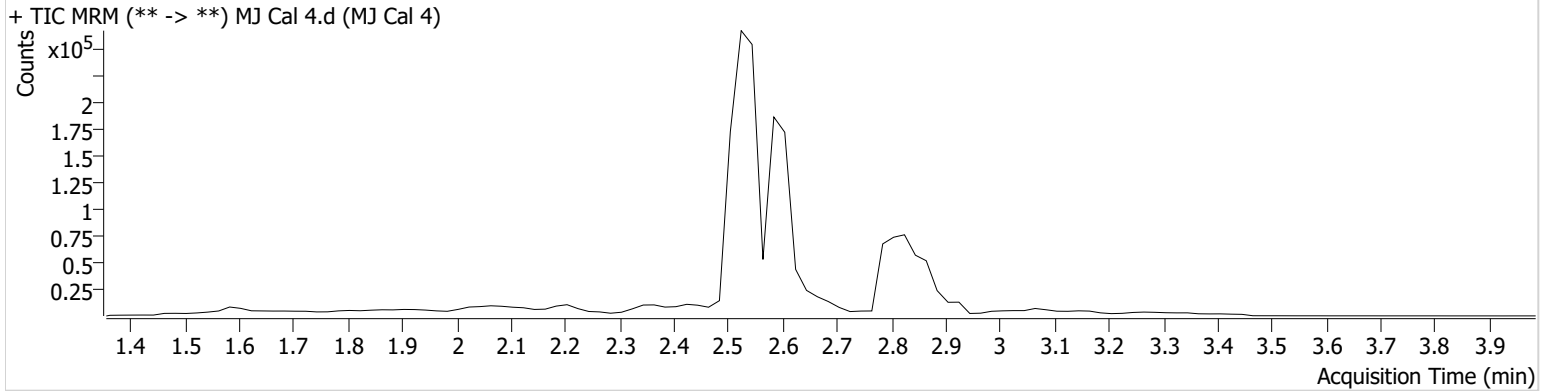
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

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	2/26/2021 8:36:12 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	4618	53257	10.3024 ng/ml
THC-COOH	2.605	176607	205594	47.8125 ng/ml
THC-OH	2.532	141535	688455	10.5718 ng/ml

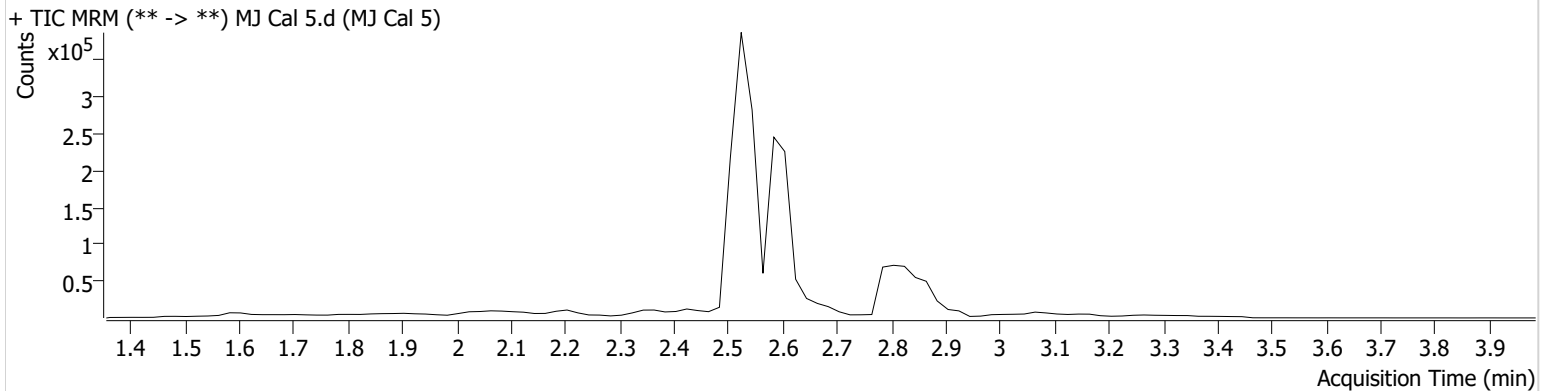
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

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	2/26/2021 8:42:43 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	9580	46937	25.8078 ng/ml
THC-COOH	2.605	269339	214281	69.9541 ng/ml
THC-OH	2.532	337847	690074	25.0929 ng/ml

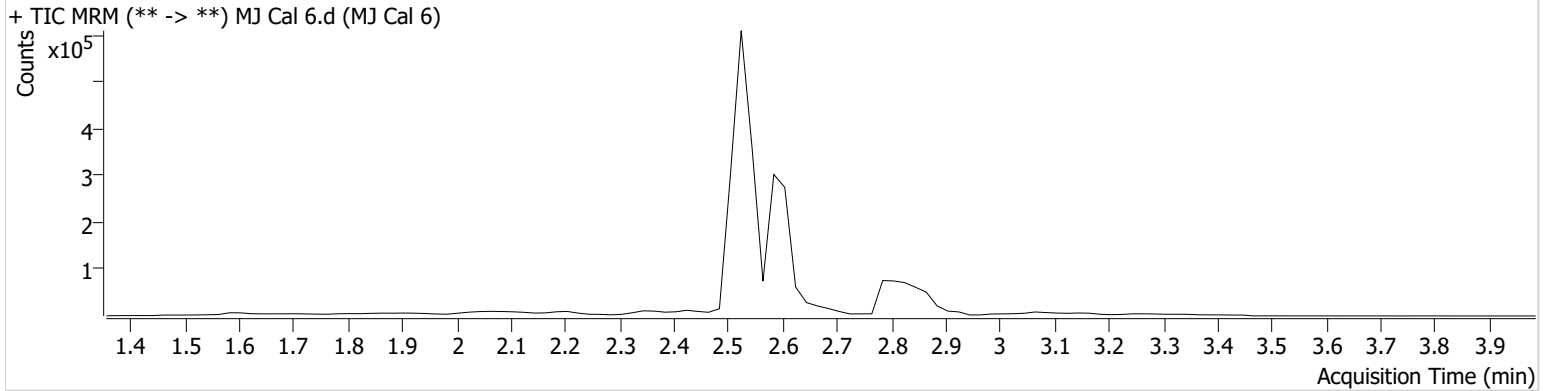
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

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	2/26/2021 8:49:14 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	17965	47055	49.2763 ng/ml
THC-COOH	2.605	359789	197843	101.2036 ng/ml
THC-OH	2.532	697409	738526	48.3447 ng/ml

AM #26 Cannabinoids Screen Results

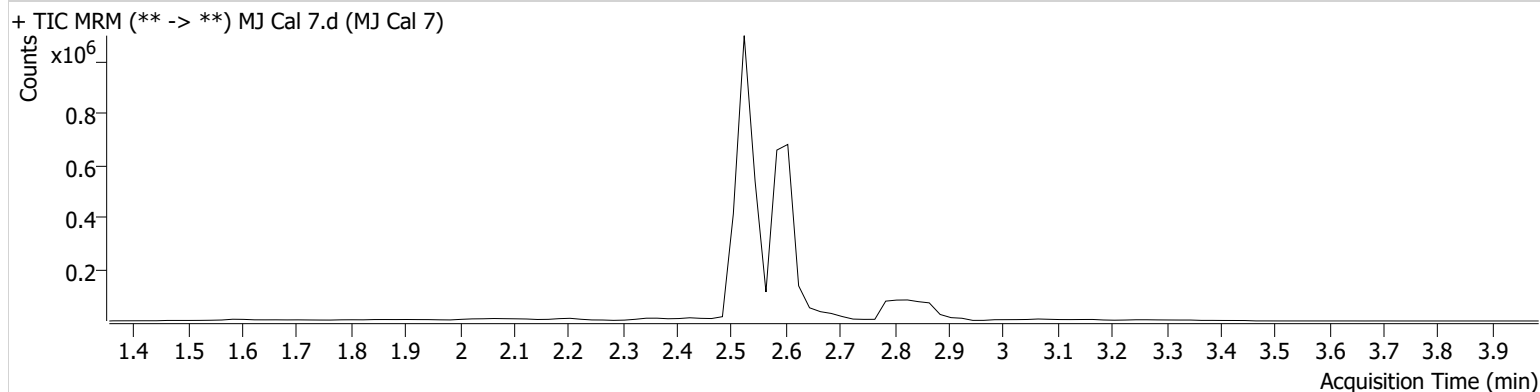


Batch results D:\MassHunter\Data\2021\AM 25-26\022521 AM 25 26 CS\QuantResults\AM 26 THCS.batch.bin
Calibration Last Update 3/1/2021 10:17:28 AM

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	2/26/2021 8:55:46 AM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	39219	51254	99.9206 ng/ml
THC-COOH	2.605	993253	217369	254.2684 ng/ml
THC-OH	2.532	1514911	766812	101.0751 ng/ml