REVIEWED
By Celena Shrum at 2:58 pm, Apr 15, 2020

4/9/2020

Worklist: 4154

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-1204	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-1210	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-1270	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-0979	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-0983	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-0993	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-0999	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1007	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1009	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1010	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1011	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1014	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1022	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1029	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1048	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1062	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1065	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1066	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1081	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1082	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1086	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 4154

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2020-1086	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1112	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Idaho State Police
Forensic Services
Toxicology Discipline

Request for Departure from an Analytical Method

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: 04/10/20 Analyst: Sarah Pickle
Plate lot#: IDP-107-190725 Plate Expiration: 01/25/2020

Mobile phase A: 10mM Amm Form **Mobile phase B:** 0.1% Formic Acid in MeOH
0.5M Ammonium Hydroxide Ethyl Acetate LC Methanol
Blank Blood Lot: Hemostat 445283-3 **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. 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\041020 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: 031820)

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

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

Blood External Control Solution (Lot: WS031820)

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

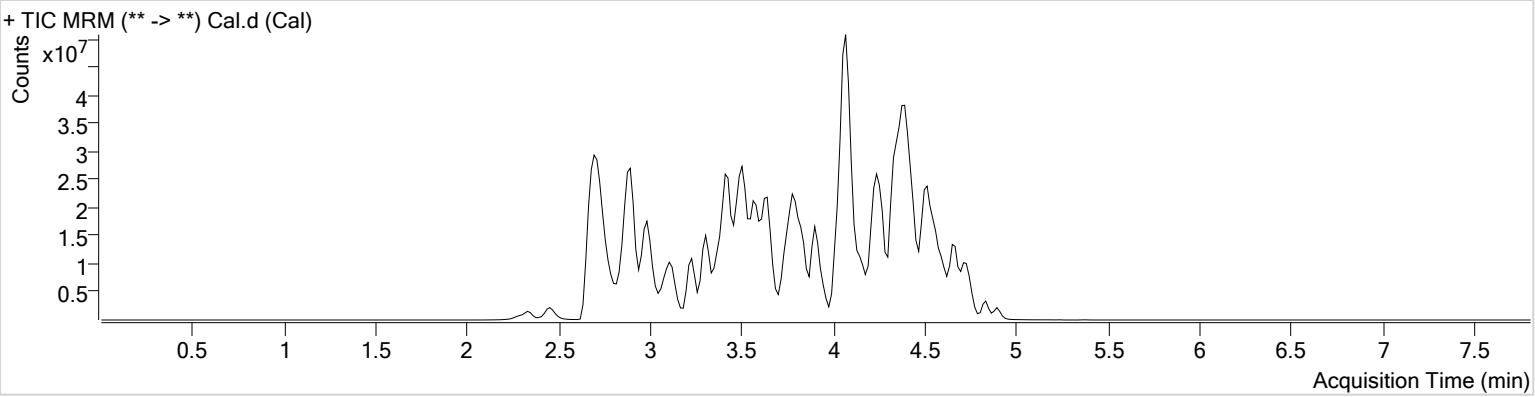
Component	*Source*	*Source Lot Number*
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031820
Prepared:	03/18/20	
Prepared by:	Sarah Pickle	
Expires:	03/18/21	

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 25.batch.bin
Calibration Last Update 4/13/2020 1:56:31 PM

Instrument	Falco	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	am 25 all.m	**Operator**	Sarah Pickle
Sample Position	P1-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/10/2020 4:12:21 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.906	58994	∞	2898.85	1416897	10.0000
7-aminoclonazepam	3.567	1395319	173.20	769476.05	6326643	10.0000
7-aminoflunitrazepam	3.782	2795507	1491.09	322.22	20085411	10.0000
Acetyl Fentanyl	3.840	583939	657.90	6134.82	33768585	10.0000
Acetyl Norfentanyl	2.884	394136	219.42	90.39	18318682	10.0000
a-hydroxyalprazolam	4.515	222678	322.38	894.94	1205274	10.0000
alpha-hydroxymidazolam	4.591	1637045	1440.73	∞	11082761	10.0000
alpha-PVP	3.543	5987577	256.72	1455.78	27150137	10.0000
Alprazolam	4.610	1801057	∞	418.06	6460780	10.0000
Amitriptyline	4.446	4469071	80.97	∞	10502708	10.0000
Amphetamine	2.888	3285972	1728.45	1485.48	8081393	10.0000
Benzoylecgonine	3.367	1383283	1383.47	37.99	6729402	10.0000
Buprenorphine	4.542	913063	335.25	383.97	3411756	10.0000
Bupropion	3.757	6043784	362604.18	2404.98	20029541	10.0000
Carbamazepine	4.234	9023259	1032.64	1415.72	39540818	10.0000
Carisoprodol	4.233	1333402	486.53	131.56	7500275	10.0000
Chlordiazepoxide	4.734	824909	361.13	5011.22	19836392	10.0000
Chlorpheniramine	3.953	23772	931.24	5795.32	46157639	10.0000
Citalopram	4.055	2479841	595.29	344.53	11899676	10.0000
Clonazepam	4.455	1504764	2321.87	1632.41	2413407	10.0000
Cocaine	3.565	6143069	2418784.69	3569.88	29429294	10.0000
Codeine	2.804	416775	1595.24	∞	2039469	10.0000
Cyclobenzaprine	4.354	3363204	∞	78.10	11455112	10.0000
Desipramine	4.371	4918388	5470.52	222.86	27503772	10.0000
Dextromethorphan	4.093	2273888	∞	5964.37	10590063	10.0000
Dextrorphan	3.370	3012577	26723.69	2740.27	20151498	10.0000
Diazepam	4.844	1185589	540.29	∞	6833253	10.0000
Dihydrocodeine	2.741	1012754	130.60	86.97	4848027	10.0000
Diphenhydramine	4.031	10399345	8441.61	543.38	46157639	10.0000
Doxepin	4.153	2778378	687.56	6.57	18204051	10.0000
Doxylamine	3.645	13361970	120135.79	1216818.61	46852159	10.0000
EDDP	4.076	4390046	∞	321852.26	29793048	10.0000
Estazolam	4.535	5766531	891.81	996.47	17419279	10.0000
Etizolam	4.636	328420	∞	760.66	17419279	10.0000

AM #25 Multi-Drug Screen Results

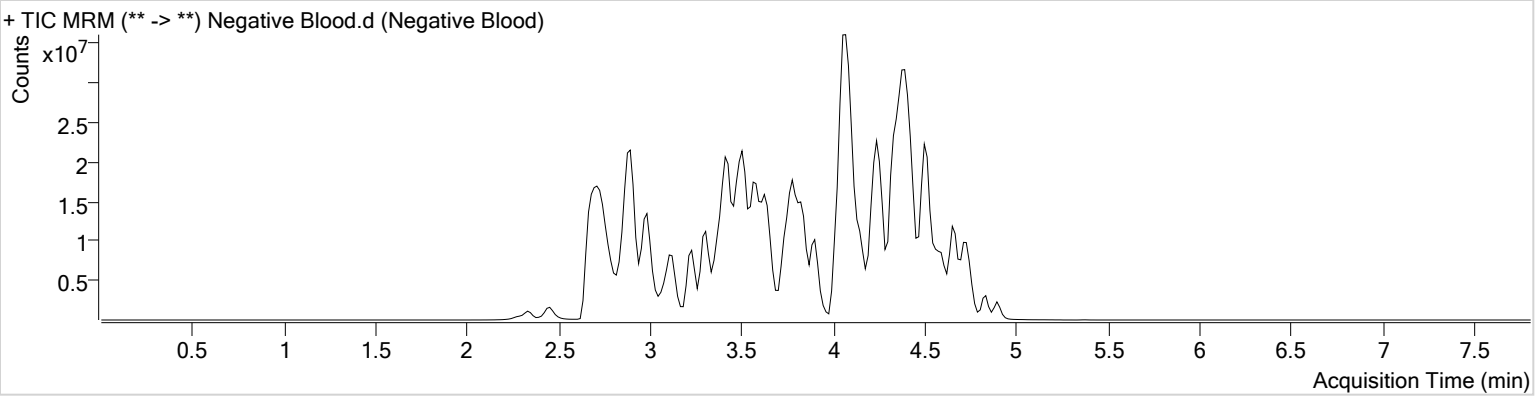
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	4.084	215274	121.98	1680.35	13722615	10.0000
Flunitrazepam	4.563	2727747	2155.25	172568.56	659694	10.0000
Fluoxetine	4.334	3594018	3783011.84	249.82	16683306	10.0000
Flurazepam	4.175	3534116	3660.97	1964.52	659694	10.0000
Hydrocodone	3.001	1694092	∞	111.79	10969295	10.0000
Hydromorphone	2.473	1454437	44.39	26.95	5566144	10.0000
Imipramine	4.399	5606956	908988.12	∞	21511689	10.0000
Ketamine	3.496	4475171	∞	139.11	23031033	10.0000
Lamotrigine	3.570	285199	19.82	55.04	13943713	10.0000
Levamisole	2.992	4051166	∞	∞	29429294	10.0000
Lorazepam	4.439	537477	2089.35	294.51	2413407	10.0000
Maprotiline	4.446	4398188	87.07	3125.39	10502708	10.0000
MDA	2.993	2606894	∞	421.36	11871690	10.0000
MDEA	3.237	5614419	6181.17	797.98	26720454	10.0000
MDMA	3.100	6424345	432219.81	344.64	4404438	10.0000
Meperidine	3.601	2813217	47.02	2686.63	13943713	10.0000
Meprobamate	3.667	664931	284.91	143.09	2858260	10.0000
Methadone	4.395	6431111	254.91	227.24	27356484	10.0000
Methamphetamine	3.010	3659896	∞	∞	22559270	10.0000
Methocarbamol	3.572	487584	525.86	205.89	13943713	10.0000
Methylphenidate	3.512	12272628	∞	150.69	43550657	10.0000
Metoprolol	3.431	756209	∞	739.66	13943713	10.0000
Midazolam	4.760	893660	78.82	94.73	10219912	10.0000
Mirtazapine	3.908	4021153	317.04	248.48	13943713	10.0000
Mitragynine	4.189	350128	245962.61	373493.16	18204051	10.0000
Morphine	2.292	223597	9904.27	315.71	137993	10.0000
Norbuprenorphine	3.821	89323	485.10	69089.74	438890	10.0000
Nordiazepam	4.708	1795755	1923.11	∞	6365077	10.0000
Norfentanyl	3.327	8986647	287.68	1333.23	34323641	10.0000
Norhydrocodone	2.927	29115	17.79	74.40	1148892	10.0000
Normeperidine	3.604	1834391	1094.35	∞	6503048	10.0000
Noroxycodone	2.864	1151033	123.69	132.34	3567620	10.0000
Nortriptyline	4.417	2093149	350987.13	357.95	4895287	10.0000
O-desmethyl-tramadol	2.898	9780467	∞	∞	43109007	10.0000
Olanzapine	3.794	1928049	1468009.33	301.30	956493	10.0000
Oxazepam	4.521	2727440	∞	∞	16904260	10.0000
Oxycodone	2.907	2884575	668.11	367.86	13090451	10.0000
Oxymorphone	2.348	1298454	∞	185.38	4439505	10.0000
Paroxetine	4.346	416860	17061.50	797312.08	12049609	10.0000
Phenazepam	4.651	1597087	262864.02	1504.56	7708269	10.0000
Phencyclidine	3.925	6651257	1279.99	697.32	28477022	10.0000
Phentermine	3.147	1348200	∞	17.24	21114362	10.0000
Phenytoin	4.141	187399	366.57	477.65	956493	10.0000
Promethazine	4.337	10682705	∞	∞	37286753	10.0000
Pseudoephedrine	2.704	50561796	∞	∞	127178030	10.0000
Quetiapine	4.451	3336291	2423.70	∞	4115707	10.0000
Sertraline	4.565	2319956	1097457.30	495.52	12049609	10.0000
Sufentanil	4.420	318870	373.23	287.40	20726596	10.0000
Tapentadol	3.436	4939251	633.18	935.73	25223011	10.0000
Temazepam	4.673	4491035	415.34	1340.93	21209166	10.0000
Tramadol	3.416	12444711	1705.05	99.17	43220944	10.0000
Trazodone	4.544	8020949	3800.32	1346.41	30379324	10.0000
Venlafaxine	3.797	8559382	2391415.72	209.67	39548886	10.0000
Zaleplon	4.350	2410190	2298962.56	603.92	5021547	10.0000
Zolpidem	4.273	11360525	1347.23	594.06	42068369	10.0000
Zopiclone	4.113	752497	420.80	231.43	3765660	10.0000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 25.batch.bin
Calibration Last Update 4/13/2020 1:56:31 PM

Instrument	Falco	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	am 25 all.m	**Operator**	Sarah Pickle
Sample Position	P1-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/10/2020 4:20:51 PM		
Sample Info.			

Sample Chromatogram

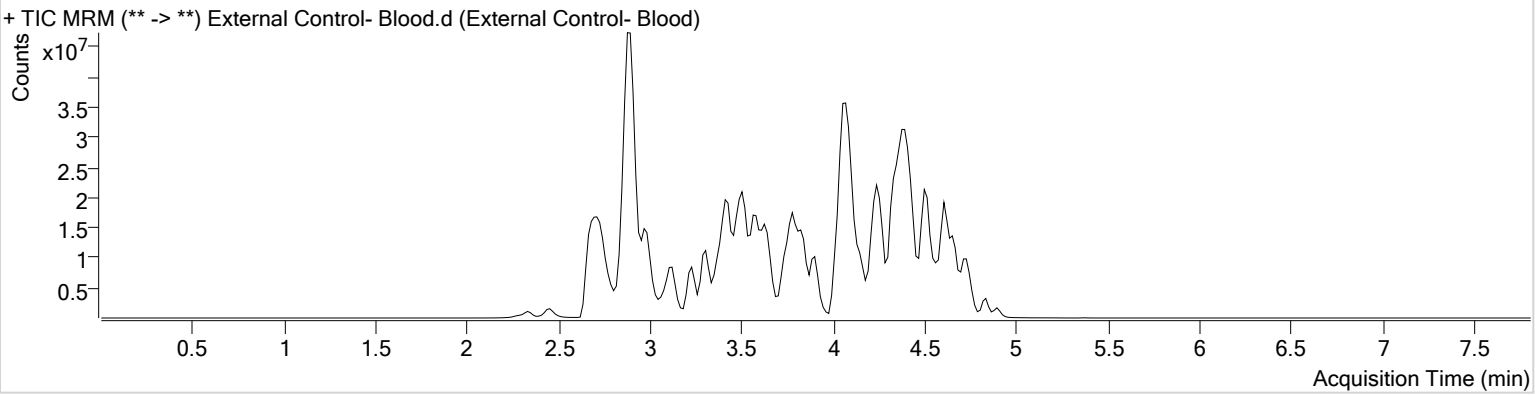


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 25.batch.bin
Calibration Last Update 4/13/2020 1:56:31 PM

Instrument	Falco	**Data File**	External Control- Blood.d
Type	Sample	**Sample**	External Control- Blood
Acq. Method	am 25 all.m	**Operator**	Sarah Pickle
Sample Position	P1-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/10/2020 4:29:09 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.610	19581426	∞	∞	6022566	116.6327
Amphetamine	2.888	29057335	42393.30	16252.30	7685034	92.9892
O-desmethyl-tramadol	2.913	53868413	∞	1393.13	40343781	58.8526

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

Extraction Date: 04/10/20 Analyst: Sarah Pickle

Plate lot#: IDP-108-2-200303 Plate Expiration: 09/03/20

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-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. 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 8**00 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\041020 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

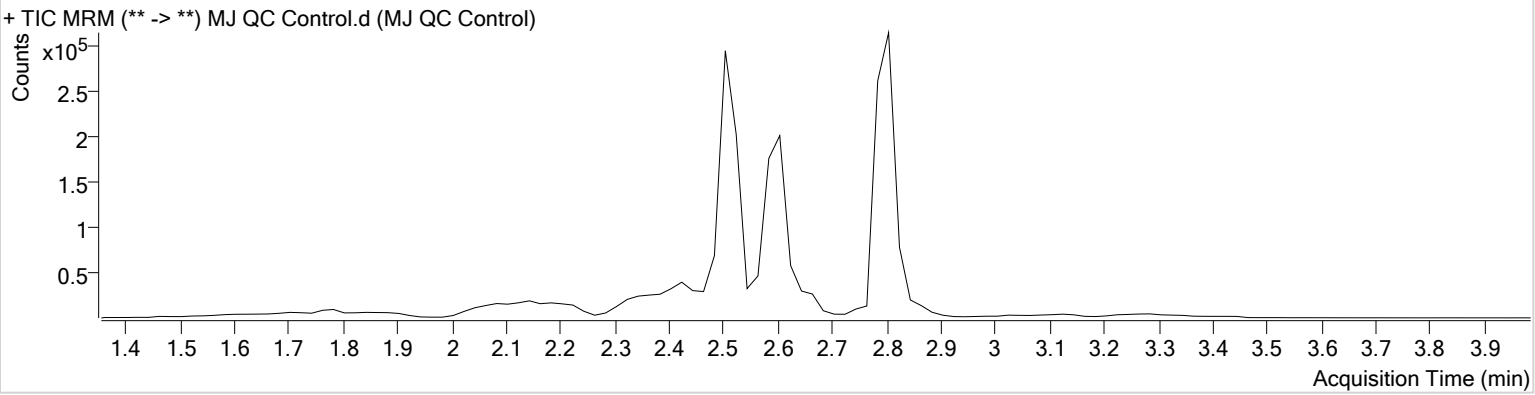
COMMENTS: *Calibrator 5 dropped for THC and Calibrators 5 and 7 dropped for THC-COOH due to varying concentrations.*

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:49:23 PM		
Sample Info.			

Sample Chromatogram



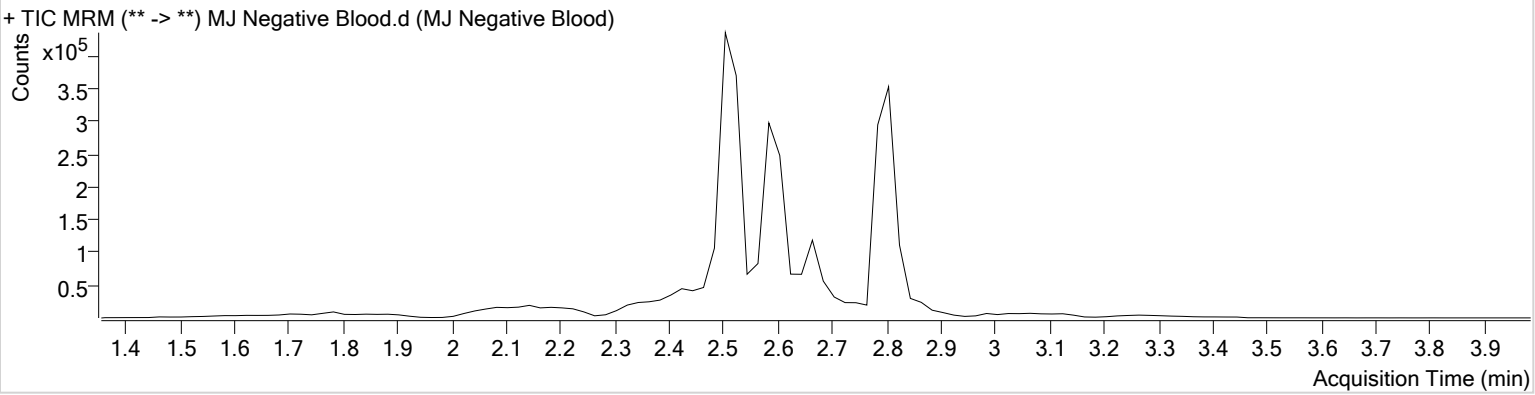
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	616	14900	3.3509	ng/ml
THC-COOH	2.605	51995	239281	26.6708	ng/ml
THC-OH	2.512	36689	581034	4.3694	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

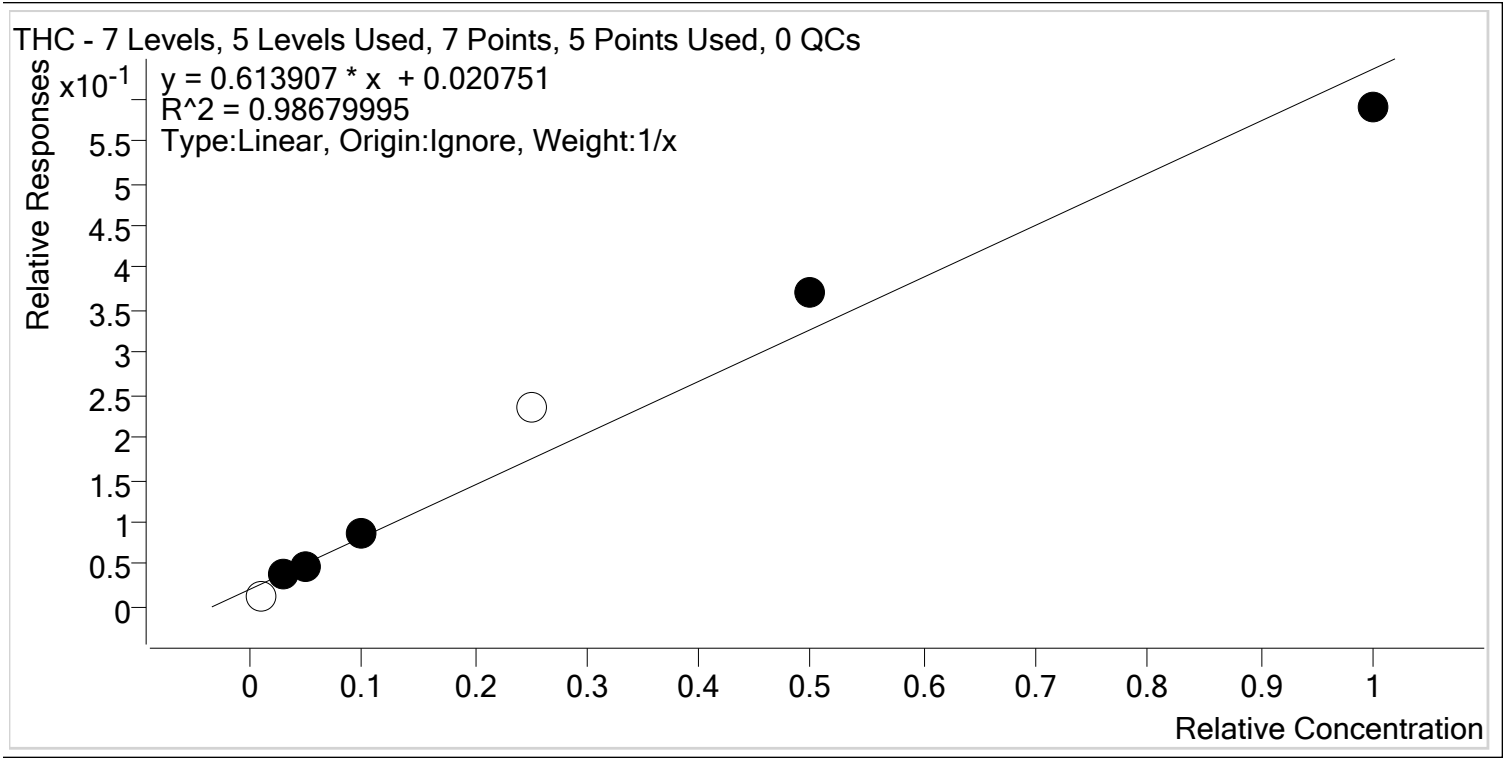
Instrument	Falco	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 1:02:25 PM		
Sample Info.			

Sample Chromatogram



AM #26 Cannabinoids Screen Calibration Curve Report

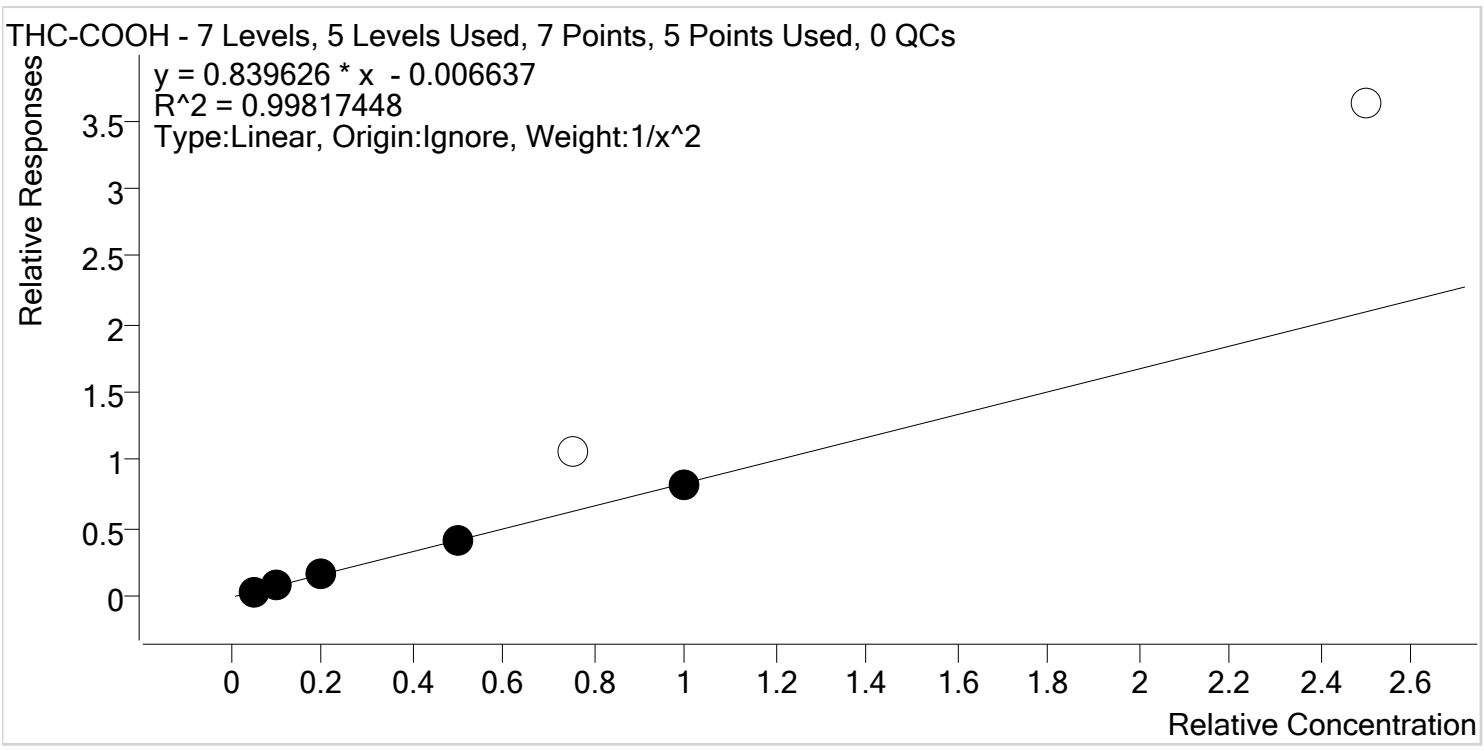
Batch results	D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Last Cal. Update	4/14/2020 11:35 AM
Analyst Name	ISP\Datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✗	1.0	0.0	0.0
MJ Cal 2	2	✔	3.0	2.9	96.4
MJ Cal 3	3	✔	5.0	4.5	90.1
MJ Cal 4	4	✔	10.0	10.6	106.1
MJ Cal 5	5	✗	25.0	35.0	140.0
MJ Cal 6	6	✔	50.0	57.4	114.8
MJ Cal 7	7	✔	100.0	92.6	92.6

AM #26 Cannabinoids Screen Calibration Curve Report

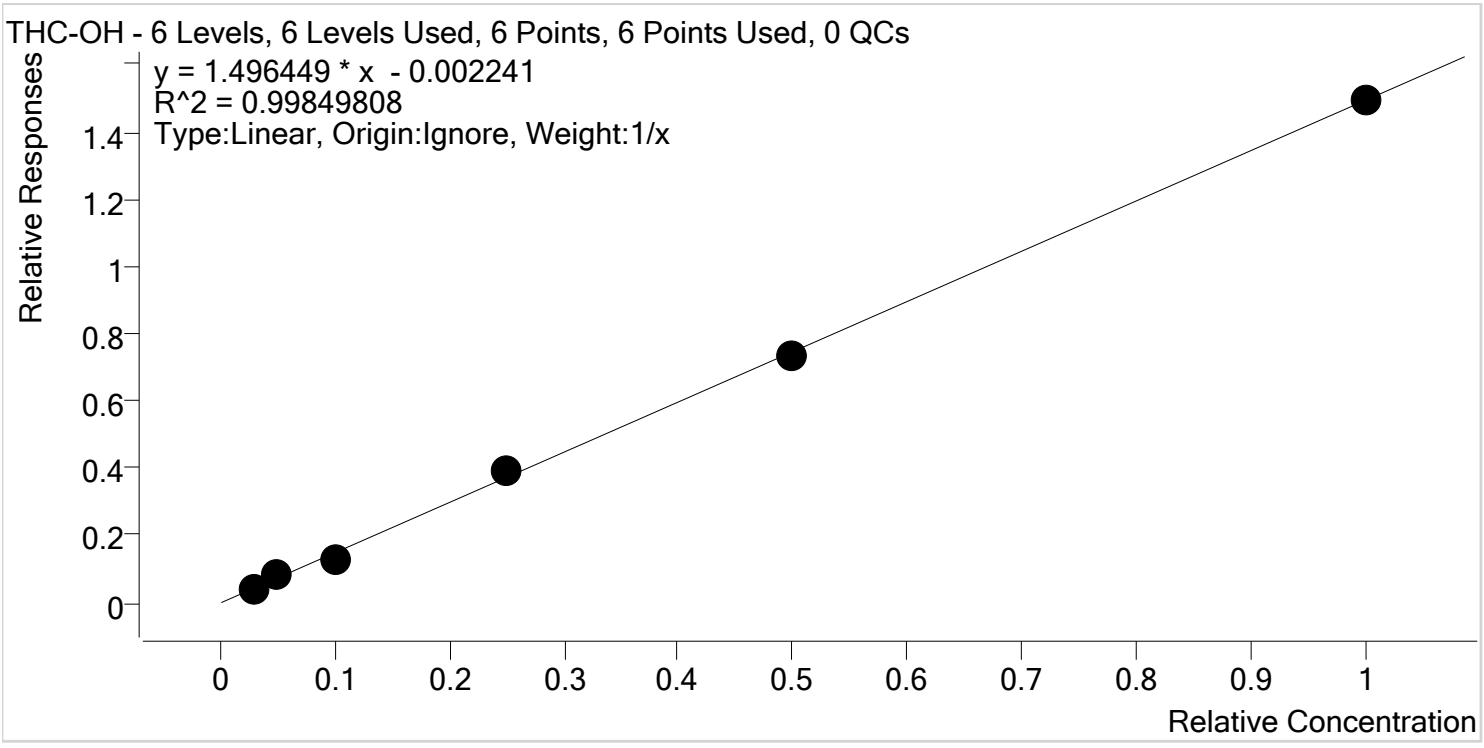
Batch results	D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Last Cal. Update	4/14/2020 11:35 AM
Analyst Name	ISP\Datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	5.0	4.9	97.5
MJ Cal 2	2	✔	10.0	10.4	104.4
MJ Cal 3	3	✔	20.0	20.5	102.4
MJ Cal 4	4	✔	50.0	49.3	98.7
MJ Cal 5	5	✗	75.0	126.6	168.8
MJ Cal 6	6	✔	100.0	97.0	97.0
MJ Cal 7	7	✗	250.0	432.3	172.9

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Last Cal. Update 4/14/2020 11:35 AM
Analyst Name ISP\Datastor
Analyte THC-OH **Internal Standard** THC-OH-d3



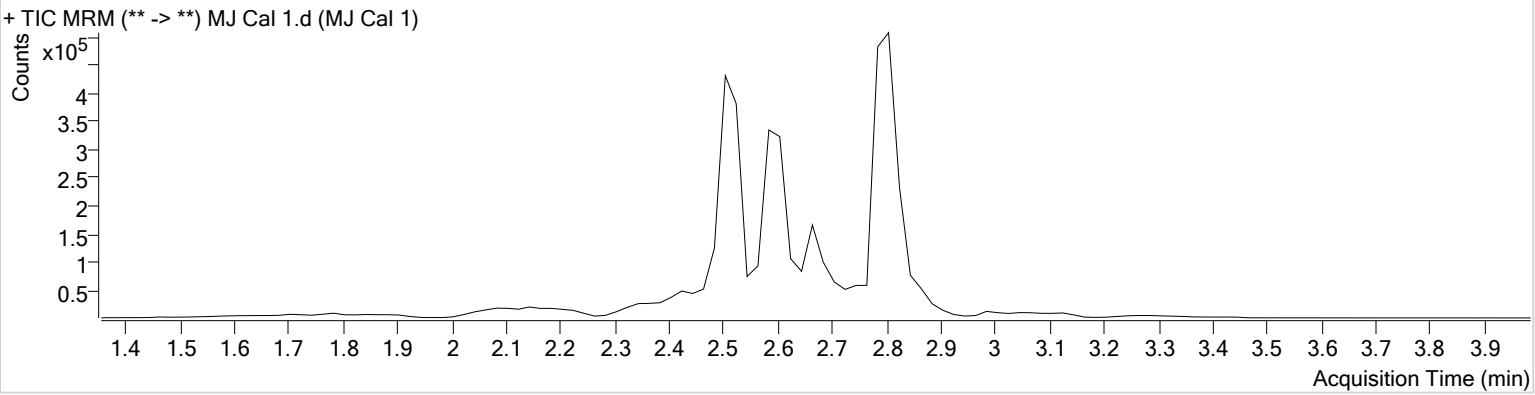
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 2	2	✔	3.0	2.9	97.0
MJ Cal 3	3	✔	5.0	5.5	109.3
MJ Cal 4	4	✔	10.0	9.0	89.9
MJ Cal 5	5	✔	25.0	26.2	104.9
MJ Cal 6	6	✔	50.0	49.5	99.1
MJ Cal 7	7	✔	100.0	99.9	99.9

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:03:41 PM		
Sample Info.			

Sample Chromatogram



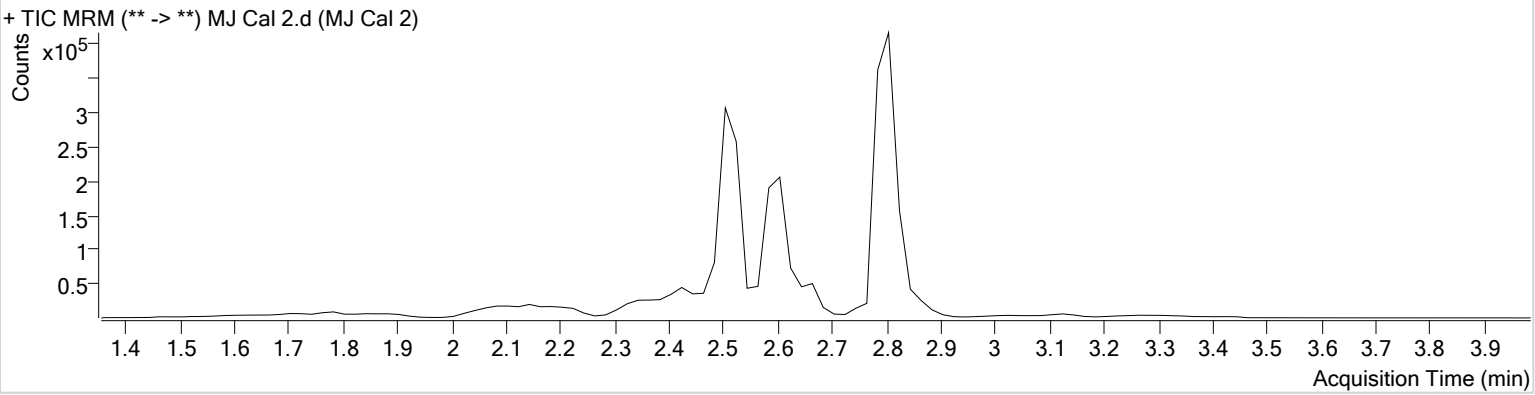
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC-COOH	2.625	17230	502469	4.8745	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:10:21 PM		
Sample Info.			

Sample Chromatogram



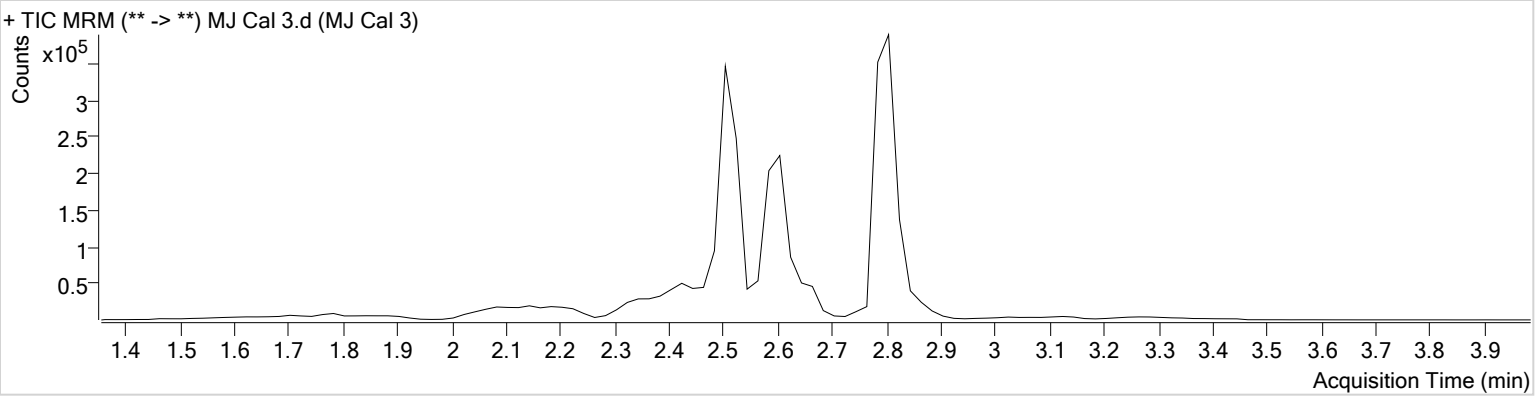
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.839	836	21705	2.8915	ng/ml	**Low**
THC-COOH	2.625	25309	312437	10.4384	ng/ml	
THC-OH	2.532	27633	668869	2.9105	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:16:53 PM		
Sample Info.			

Sample Chromatogram



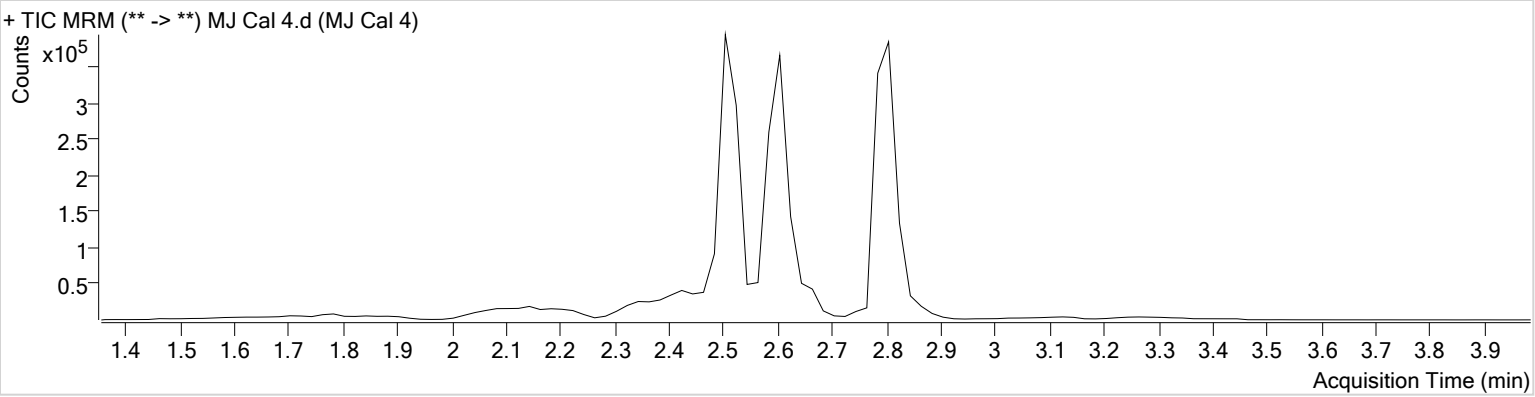
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	960	19843	4.5039	ng/ml
THC-COOH	2.585	45865	277483	20.4766	ng/ml
THC-OH	2.512	55429	697106	5.4632	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:23:23 PM		
Sample Info.			

Sample Chromatogram



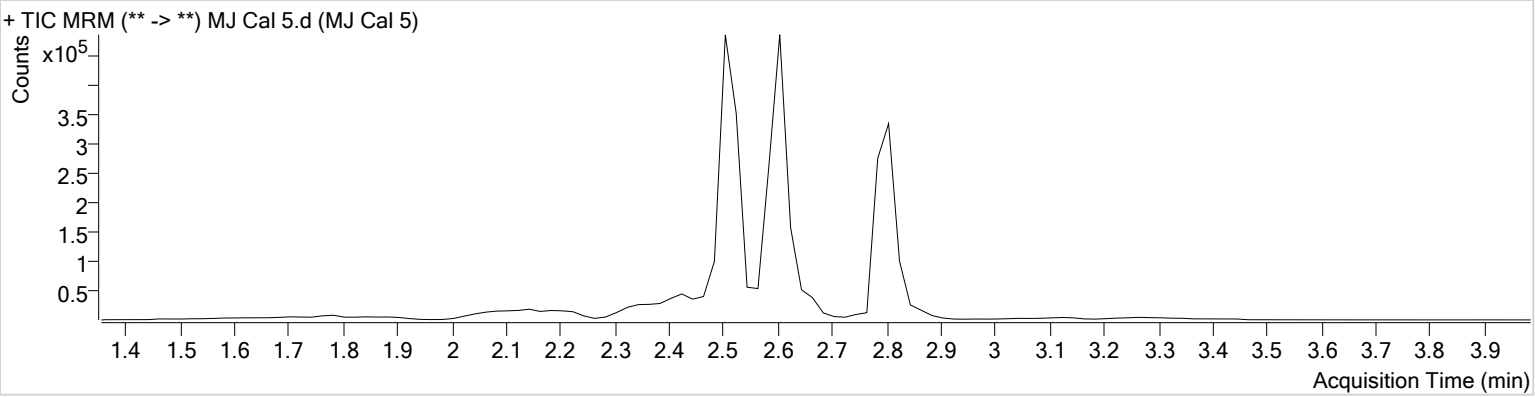
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	1643	19125	10.6126 ng/ml
THC-COOH	2.585	126676	310713	49.3472 ng/ml
THC-OH	2.512	100046	756578	8.9863 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:29:53 PM		
Sample Info.			

Sample Chromatogram



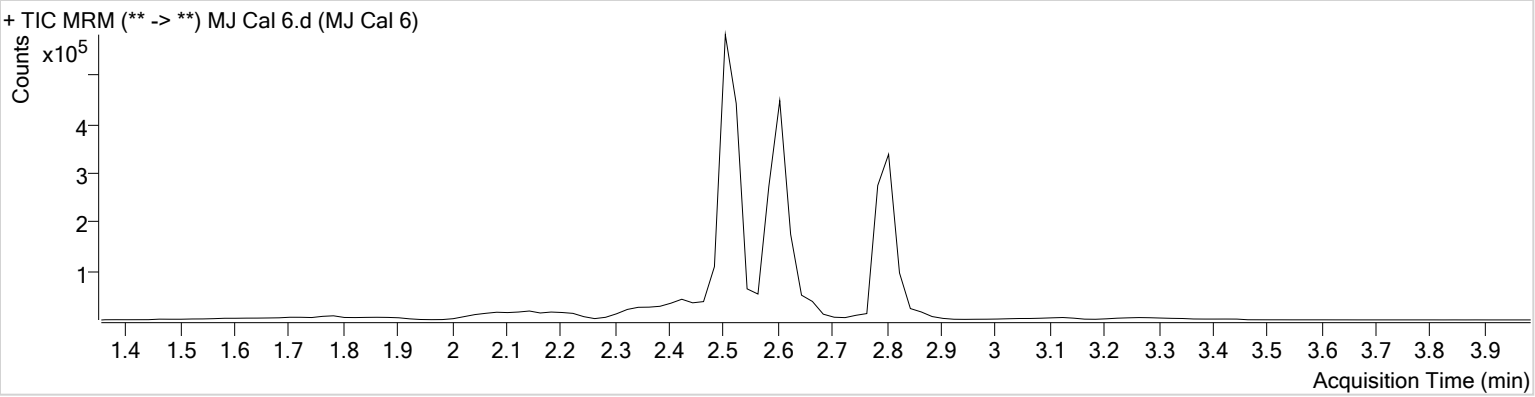
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	3700	15706	34.9886	ng/ml
THC-COOH	2.605	266354	252148	126.6013	ng/ml
THC-OH	2.512	287847	737573	26.2290	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 6.d
Type	Cal	**Sample**	MJ Cal 6
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:36:23 PM		
Sample Info.			

Sample Chromatogram



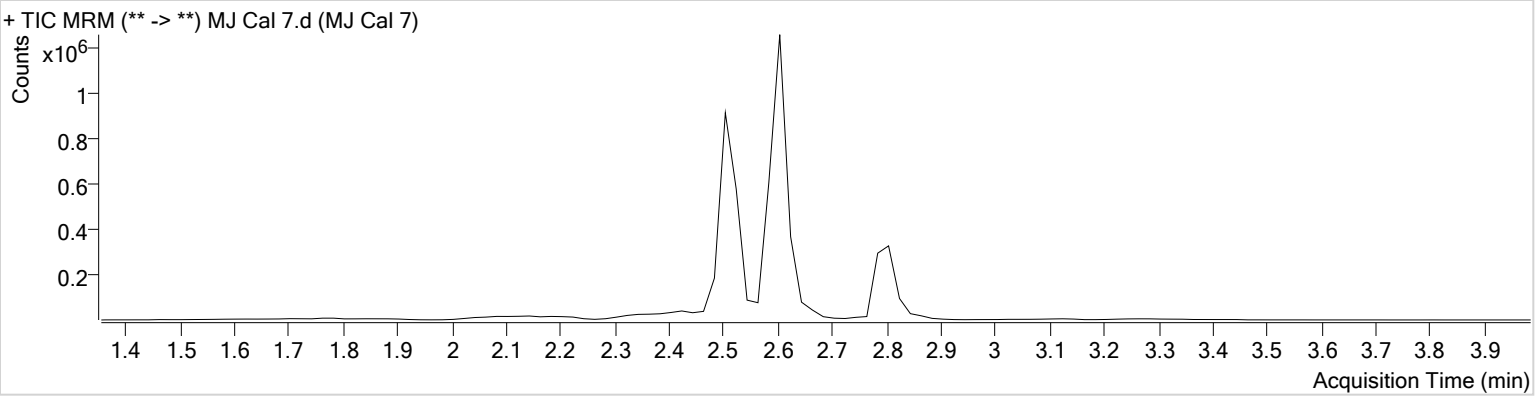
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	6352	17018	57.4190 ng/ml
THC-COOH	2.585	189274	234191	97.0481 ng/ml
THC-OH	2.512	526962	713122	49.5300 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\041020 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 4/14/2020 11:35:03 AM

Instrument	Falco	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/10/2020 12:42:53 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	12237	20774	92.5729	ng/ml
THC-COOH	2.605	913783	252192	432.3348	ng/ml
THC-OH	2.512	1078062	722354	99.8810	ng/ml