


















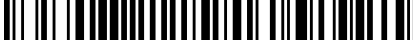







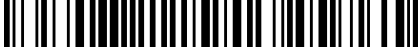


Worklist: 5871

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2022-1710	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-1828	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-1829	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-1902	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1244	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1249	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1250	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1251	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1252	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1253	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1254	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1265	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1266	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1267	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1272	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1278	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1290	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1291	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1293	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1321	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1321	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 5871

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<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2022-1321	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1333	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1334	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1345	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1354	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1355	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1356	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1366	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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**Idaho State Police
Forensic Services**

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): TOX-22-01

Date of Request: **2/3/2022**

Requestor/Discipline: Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #: AM #25, AM #28, AM #29, Revision 13

Temporary or Permanent Deviation: Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc): Deviation will remain in place until the change is made in the next method revision.

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual): 4.1.4 (Place plate on shaking incubator at approximately 900 rpm for approximately 15 minutes) of AM #25, AM # 28, and AM #29 is being removed. The removal of this step was tested in the validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022) and it was determined that that step is not necessary and can be removed.

Technical Justification for Analytical Method Deviations: Refer to validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022)

Technical Review

Departure approved
Comments:

Departure Not Approved
Comments:

Approver: Rachel Cutler
Title: Laboratory Manager



Date: 2/10/2022

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 2/10/2022



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

Extraction Date: 5/12/2022

Plate lot#: 211015

Mobile phase A: 10mM Amm Form

Instant Buffer I

Blank Blood Lot: Lampire 22B52016-2

LCMS-QQQ ID: 069901

Analyst: Amber Gerheart

Plate Retest Date: 4/15/2022 – 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: N/A

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. **Skipped per deviation**
- 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).
- 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.
- 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 on 5/12/2022 and placed in freezer for storage until injection on the instrument. Samples were injected on 5/13/2022.

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	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + QC_1	P2022-1244-2	P2022-1266-1	P2022-1321-2	P2022-1366-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + QC_1	P2022-1249-1	P2022-1267-1	P2022-1321-3	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Blood Negative	P2022-1250-1	P2022-1272-1	P2022-1333-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	Blood External	P2022-1251-1	P2022-1278-3	P2022-1334-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	M2022-1710-2	P2022-1252-1	P2022-1290-1	P2022-1345-2	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	M2022-1828-2	P2022-1253-1	P2022-1291-1	P2022-1354-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	M2022-1829-4	P2022-1254-1	P2022-1293-1	P2022-1355-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_1
H	M2022-1902-3	P2022-1265-1	P2022-1321-1	P2022-1356-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_1

All wells to contain 60 µl of residual DMSO

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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: 042222)

100 μ L of 1mg/mL stock was added ^{*}to each drug to 9600 μ L of LC MeOH.

*of 4/3/2023
AS

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	215245	N/A
Tramadol	Cerilliant	FE10051901	12/31/2024
Hydrocodone	Cerilliant	FE04241902	09/30/2024
Alprazolam	Cerilliant	FE06102008	06/30/2025
Buprenorphine	Cerilliant	FE03191903	06/31/2024
Prepared:	04/22/2022		
Expires:	04/22/2023		
Prepared By:	Celena Shrum		

Blood External Control Solution (Lot: WS042222)

200 μ L of methanol external control solution was added to 9800 μ L of blood.
Approximately 200 ng/mL of each compound.

Component	Source	Source Lot Number
Negative Blood	Lampire	22B52016-2
Methanol External Control Solution		042222
Prepared:	04/22/2022	
Expires:	04/22/2023	
Prepared by:	Celena Shrum	

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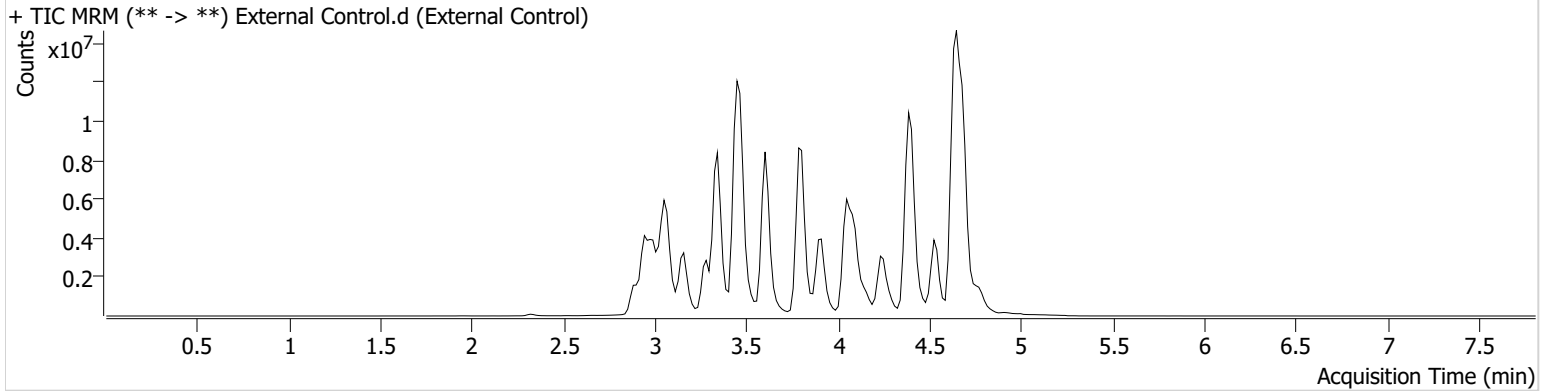


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/17/2022 4:48:22 PM

Instrument	Falco (069901)	Data File	External Control.d
Type	Sample	Sample	External Control
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-D1	Comment	
Injection Volume	5		
Acq. Date-Time	5/13/2022 3:22:05 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.636	23873739	15259.31	26310.96	24998607	83.2381
Buprenorphine	4.765	2340392	694533.14	131577.51	975627	97.8317
Hydrocodone	3.067	10221036	10906581.74	1137.91	7602591	80.8196
Tramadol	3.453	46141483	1390.17	963.34	18530018	42.2599

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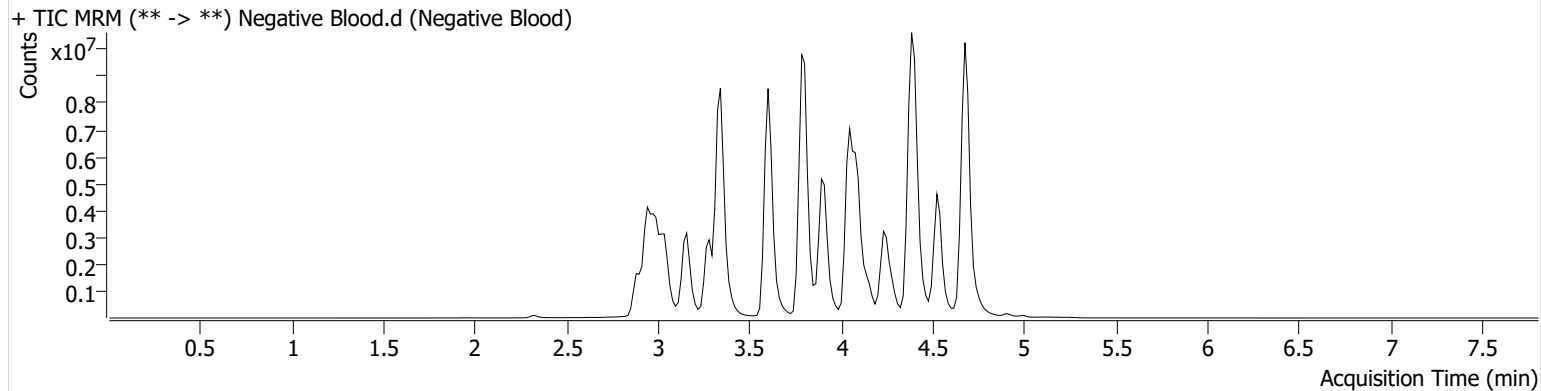


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/17/2022 4:48:22 PM

Instrument	Falco (069901)	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-C1	Comment	
Injection Volume	5		
Acq. Date-Time	5/13/2022 3:38:55 PM		
Sample Info.			

Sample Chromatogram



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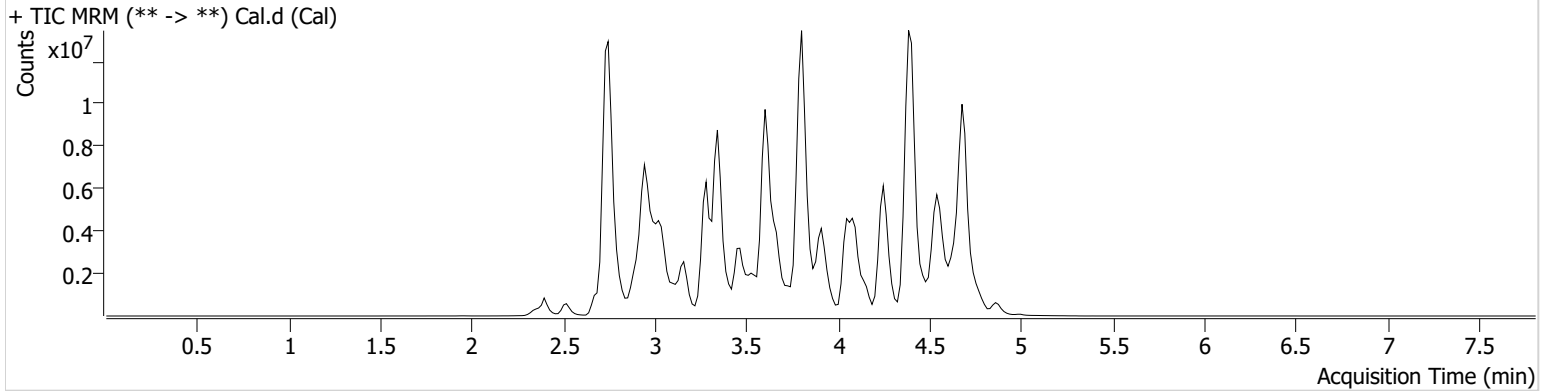


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/17/2022 4:48:22 PM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-A1	Comment	
Injection Volume	5		
Acq. Date-Time	5/13/2022 3:13:30 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbazepine	3.793	3094339	52.88	13844.26	21863660	10.0000
6-MAM	2.956	38298	23648.74	9024.54	1277016	10.0000
7-aminoclonazepam	3.605	1068847	699297.01	784973.43	4439460	10.0000
7-aminoflunitrazepam	3.805	2045210	2520205.11	195.71	4439460	10.0000
9-Hydroxyrisperidone	3.905	2167461	2868322.91	30230.43	9331665	10.0000
Acetyl Fentanyl	3.925	34013	55.08	12698.15	21603902	10.0000
Acetyl Norfentanyl	2.919	242492	292544.36	1082.69	21603902	10.0000
a-hydroxyalprazolam	4.541	257014	7738.16	41955.39	4439460	10.0000
alpha-hydroxymidazolam	4.616	2088660	938.11	913916.32	4439460	10.0000
Alpha-PHP	3.871	1108524	11269.15	3657.76	21603902	10.0000
alpha-PVP	3.595	2164654	598.25	279.55	3751700	10.0000
Alprazolam	4.636	2370702	333.71	1040.27	20663050	10.0000
Amitriptyline	4.455	65060	10.90	20.21	217429	10.0000
Amphetamine	2.923	1010328	455.70	1897.25	3751700	10.0000
Benzoyllecgonine	3.421	204677	66793.49	247.14	434624	10.0000
Brompheniramine	4.049	9830	101.20	158.23	9701911	10.0000
Buprenorphine	4.765	108916	44685.48	4570.76	444189	10.0000
Bupropion	3.825	1338137	651.14	222.17	5278006	10.0000
Carbamazepine	4.258	8222695	5346.85	3597.28	583624	10.0000
Carisoprodol	4.256	1353735	175449.35	93.72	7909909	10.0000
Chlordiazepoxide	4.760	663567	394.67	886.00	20663050	10.0000
Chlorpheniramine	3.961	808971	361630.10	1775.94	9701911	10.0000
Chlorpromazine	4.649	69595	34129.43	534.67	334510	10.0000
Citalopram	4.079	422828	227.16	99.96	9701911	10.0000
Clomipramine	4.650	103177	40679.47	426.95	9701911	10.0000
Clonazepam	4.465	1018702	363.03	160078.01	20663050	10.0000
Clonazolam	4.400	1247116	726886.05	79921.99	20663050	10.0000
Clozapine	4.371	317254	369.55	127.93	1244935	10.0000
Cocaehtylene	3.818	2454497	7080.45	558797.62	16942367	10.0000
Cocaine	3.604	2498254	5756935.77	382.46	16942367	10.0000
Codeine	2.869	299537	328250.14	859.95	6800693	10.0000
Cyclobenzaprine	4.378	74549	43.27	31.27	217429	10.0000
Desipramine	4.394	153433	42.48	10.63	217429	10.0000
Dextromethorphan	4.101	156103	81.29	71816.41	900472	10.0000

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AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrophan	3.408	1017260	723786.36	669259.18	900472	10.0000
Diazepam	4.868	920877	1007.16	1120.51	20663050	10.0000
Dihydrocodeine	2.776	814369	742.32	424.85	6800693	10.0000
Diphenhydramine	4.054	1191049	1050.52	530.90	9701911	10.0000
Doxepin	4.176	94493	36.50	12.27	3030004	10.0000
Doxylamine	3.668	4645404	5493.11	187.87	900472	10.0000
Duloxetine	4.345	1409	1300.61	489.02	37790	10.0000
EDDP	4.100	397017	101.73	126737.47	1058145	10.0000
Estazolam	4.561	4874692	1663.40	561.96	20663050	10.0000
Etizolam	4.646	242867	169778.22	368278.40	20663050	10.0000
Fentanyl	4.155	12745	7.72	739.03	1129275	10.0000
Flualprazolam	4.509	801397	287332.40	461069.45	20663050	10.0000
Flunitrazepam	4.589	1882842	5743.06	115629.87	20663050	10.0000
Fluoxetine	4.344	105629	333.16	11.71	205735	10.0000
Flurazepam	4.245	482264	260889.84	65017.45	20663050	10.0000
Hydrocodone	3.067	1131279	1938.59	659.02	6800693	10.0000
Hydromorphone	2.521	994289	447.70	4934.12	260519	10.0000
Hydroxyzine	4.553	178851	127.57	111189.59	9701911	10.0000
Imipramine	4.423	252303	147.28	97.32	217429	10.0000
Ketamine	3.625	1887961	261026.92	165.26	9896738	10.0000
Lamotrigine	3.639	150050	39243.56	5155.62	9701911	10.0000
Levamisole	3.027	1508277	69198.40	93.15	16942367	10.0000
Levetiracetam	2.677	1136546	537.87	1035.20	9701911	10.0000
Lorazepam	4.464	358491	171.72	317.60	20663050	10.0000
Maprotiline	4.455	42088	5.12	12.92	217429	10.0000
MDA	3.044	879924	198.03	324.48	6950143	10.0000
MDEA	3.257	1457378	339.02	208.83	6950143	10.0000
MDMA	3.104	1917083	429.72	185.58	6950143	10.0000
Meperidine	3.639	597045	601.44	102.08	900472	10.0000
Meprobamate	3.704	881397	583.14	2828.62	7909909	10.0000
Methadone	4.405	524980	223.02	99.25	1058145	10.0000
Methamphetamine	3.030	1210660	542.45	117.32	6950143	10.0000
Methocarbamol	3.609	471829	247.30	326828.98	1058145	10.0000
Methylphenidate	3.548	3771261	214.52	899.01	6832776	10.0000
Metoprolol	3.468	381564	150.45	416.23	900472	10.0000
Midazolam	4.786	426635	32476.08	581350.09	20663050	10.0000
Mirtazapine	4.054	580733	357662.39	29875.01	900472	10.0000
Mitragynine	4.244	32009	18870.90	33398.08	900472	10.0000
Morphine	2.354	223659	462.01	142.86	260519	10.0000
Norbuprenorphine	3.844	8959	8789.62	7108.60	444189	10.0000
Nordiazepam	4.732	1262986	327.24	230.06	20663050	10.0000
Norfentanyl	3.364	3962257	135.13	1006.91	21603902	10.0000
Norhydrocodone	2.947	59712	33.26	24.61	260519	10.0000
Norketamine	3.734	515457	310.22	77573.48	9896738	10.0000
Normeperidine	3.626	334500	103.15	310.30	9701911	10.0000
Noroxycodone	2.914	1161946	671.00	88.45	9896738	10.0000
Nortriptyline	4.425	53919	30903.64	21.77	217429	10.0000
O-desmethyl-tramadol	2.948	6552490	14528.12	181.39	9701911	10.0000
O-desmethylvenlafaxine	3.284	1446846	703.09	5967.69	7549024	10.0000
Olanzapine	3.865	101514	47801.43	33246.19	583624	10.0000
Oxazepam	4.546	1841163	302.47	187.67	7993066	10.0000
Oxycodone	2.958	2188961	798.24	31018.07	9896738	10.0000
Oxymorphone	2.395	1692111	444.70	641738.39	260519	10.0000
Paroxetine	4.355	11923	3366.54	15717.35	205735	10.0000
Phenazepam	4.661	1727296	2170.35	1737902.10	20663050	10.0000
Phencyclidine	3.933	1603717	22490.91	403.11	900472	10.0000
Phentermine	3.183	444114	76.88	30.80	6832776	10.0000
Phenytoin	4.164	839738	2186.99	760.41	583624	10.0000
Primidone	3.519	1383772	1003060.29	533.24	583624	10.0000
Promethazine	4.361	260061	110679.81	20.39	9701911	10.0000

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AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Pseudoephedrine	2.754	41613216	661.42	797.20	6950143	10.0000
Quetiapine	4.568	828693	281202.26	343732.36	35640580	10.0000
Risperidone	4.106	694997	317909.24	55.70	9331665	10.0000
Sertraline	4.575	41857	26218.75	61.20	205735	10.0000
Sufentanil	4.521	8629	4249.88	3442.87	21603902	10.0000
Tapentadol	3.473	2562998	278.89	311.49	9896738	10.0000
Temazepam	4.699	3597202	595.12	478.23	20663050	10.0000
Topiramate	3.877	62778	67745.52	8957.02	302560	10.0000
Tramadol	3.453	5716682	∞	39.08	9701911	10.0000
Trazodone	4.721	709052	565.40	802.46	3030004	10.0000
Venlafaxine	3.821	3079307	316.82	108.23	205735	10.0000
Zaleplon	4.375	1959031	956613.20	290586.73	35640580	10.0000
Zolpidem	4.405	6859619	4475789.52	7617.50	35640580	10.0000
Zopiclone	4.275	554281	379349.10	154280.01	2615215	10.0000

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

Extraction Date: 5/12/2022

Analyst: Amber Gerheart

Plate lot#: 220309

Plate Retest Date: 9/09/2022

Mobile phase A: 10mM Amm Form

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Blood Lot: Lampire 22B52016-2

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

LCMS-QQ ID: 069901

Blank Urine Lot: N/A

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: add 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes.
Using a calibrated pipette, add **1000µl blood and urine (if applicable) (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID: 16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **500µL 0.1% formic acid in water blood sample, 500 µL saturated phosphate buffer in urine** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **700-800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate.
Amount transferred: 800µL
- 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)
- 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.
- 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:

Samples were extracted on 5/12/2022 and placed in freezer for storage until injection on the instrument. Samples were injected on 5/13/2022.

2/9/

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1	P2022-1250-1	P2022-1272-1	P2022-1333-1	IS + QC_1
B	IS + Cal. 2	Blood Negative	P2022-1251-1	P2022-1278-3	P2022-1334-1	IS + Cal. 7
C	IS + Cal. 3	M2022-1710-2	P2022-1252-1	P2022-1290-1	P2022-1345-2	IS + Cal. 6
D	IS + Cal. 4	M2022-1828-2	P2022-1253-1	P2022-1291-1	P2022-1354-1	IS + Cal. 5
E	IS + Cal. 5	M2022-1829-4	P2022-1254-1	P2022-1293-1	P2022-1355-1	IS + Cal. 4
F	IS + Cal. 6	M2022-1902-3	P2022-1265-1	P2022-1321-1	P2022-1356-1	IS + Cal. 3
G	IS + Cal. 7	P2022-1244-2	P2022-1266-1	P2022-1321-2	P2022-1366-1	IS + Cal. 2
H	IS + QC_1	P2022-1249-1	P2022-1267-1	P2022-1321-3	IS + QC_1	IS + Cal. 1

All wells to contain 100 μ l of residual DMSO

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	1	2	3	4	5	6
A	IS + Cal. 1		P2022-1250-1	P2022-1272-1 (Moved due to clot)	P2022-1333-1 (Moved due to clot)	P2022-1272-1
B	IS + Cal. 2	Blood Negative	P2022-1251-1	P2022-1278-3 (Moved due to clot)	P2022-1334-1	P2022-1278-3
C	IS + Cal. 3	M2022-1710-2	P2022-1252-1	P2022-1290-1	P2022-1345-2	P2022-1333-1
D	IS + Cal. 4	M2022-1828-2	P2022-1253-1 (Moved due to clot)	P2022-1291-1	P2022-1354-1	
E	IS + Cal. 5	M2022-1829-4	P2022-1254-1	P2022-1293-1	P2022-1355-1	
F	IS + Cal. 6	M2022-1902-3	P2022-1265-1	P2022-1321-1	P2022-1356-1	
G	IS + Cal. 7	P2022-1244-2	P2022-1266-1	P2022-1321-2	P2022-1366-1	
H	IS + QC_1	P2022-1249-1	P2022-1267-1	P2022-1321-3	P2022-1253-1	

Instrument Plate Positions

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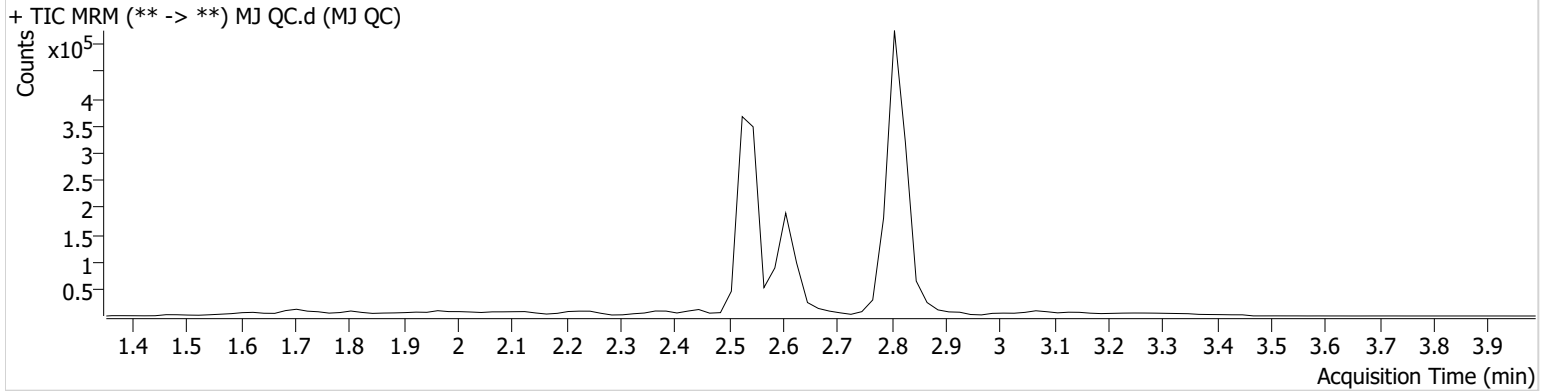


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ QC.d
Type	QC	Sample	MJ QC
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:53:13 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	1336	39009	4.6942 ng/ml
THC-COOH	2.609	60798	207650	22.8653 ng/ml
THC-OH	2.535	7936	933225	4.7839 ng/ml

AG

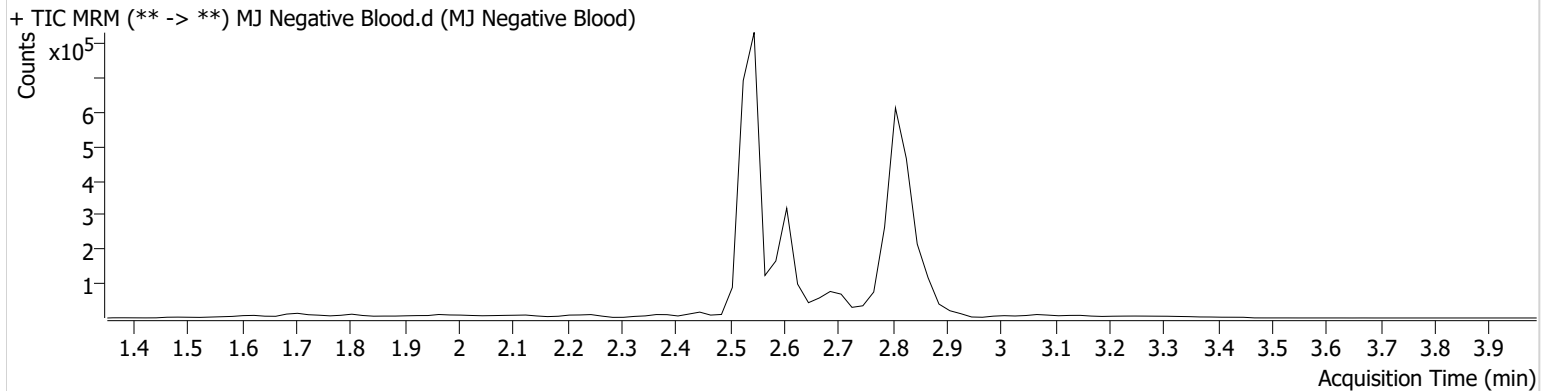


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-B2	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 11:06:22 AM		
Sample Info.			

Sample Chromatogram

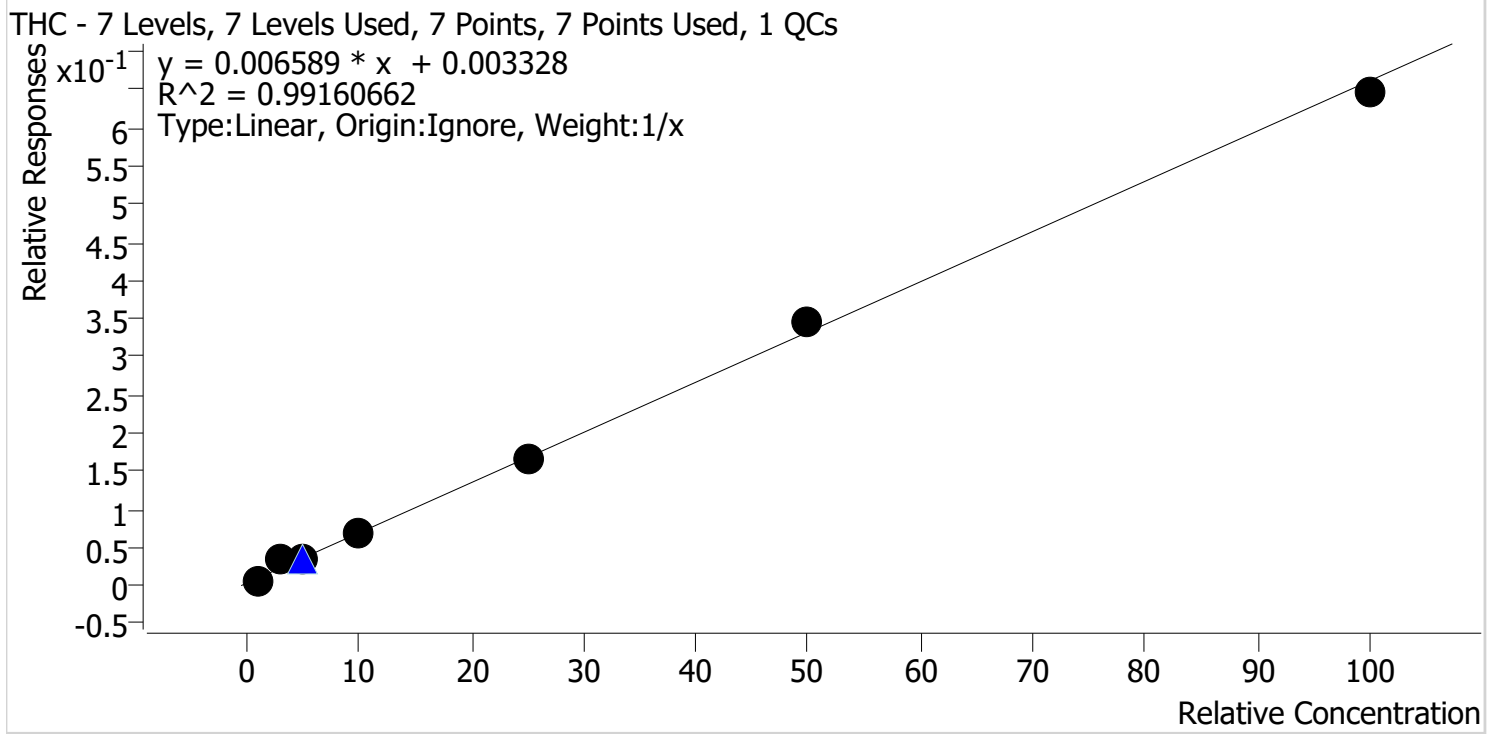


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AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 5/17/2022 4:40 PM
Analyst Name ISP\lagerheart
Analyte THC **Internal Standard** THC-D3



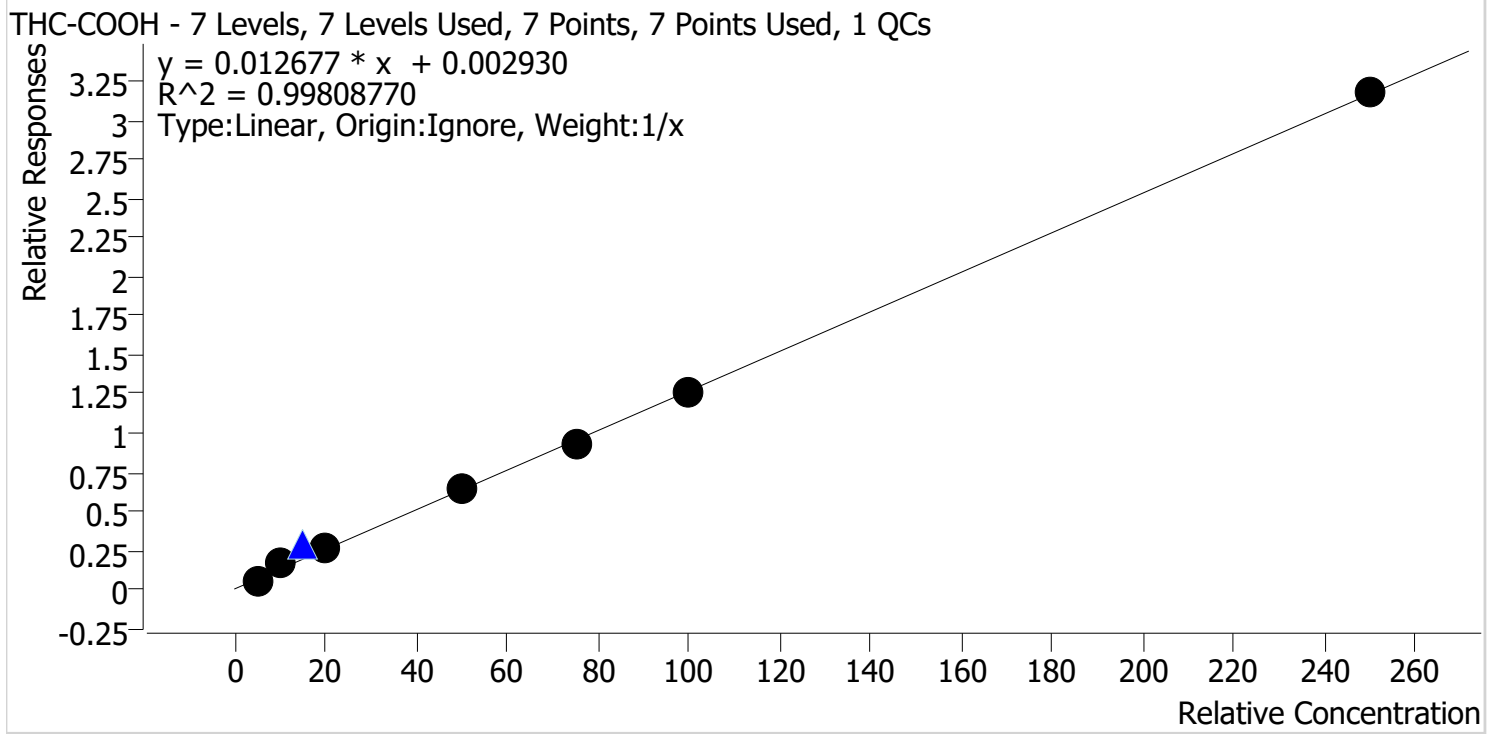
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	0.5	47.1
MJ Cal 2	2	✓	3.0	4.7	156.3
MJ Cal 3	3	✓	5.0	5.0	100.3
MJ Cal 4	4	✓	10.0	9.7	96.6
MJ Cal 5	5	✓	25.0	24.5	97.8
MJ Cal 6	6	✓	50.0	52.1	104.2
MJ Cal 7	7	✓	100.0	97.6	97.6

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AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 5/17/2022 4:40 PM
Analyst Name ISP\lagerheart
Analyte THC-COOH **Internal Standard** THC-COOH-D9



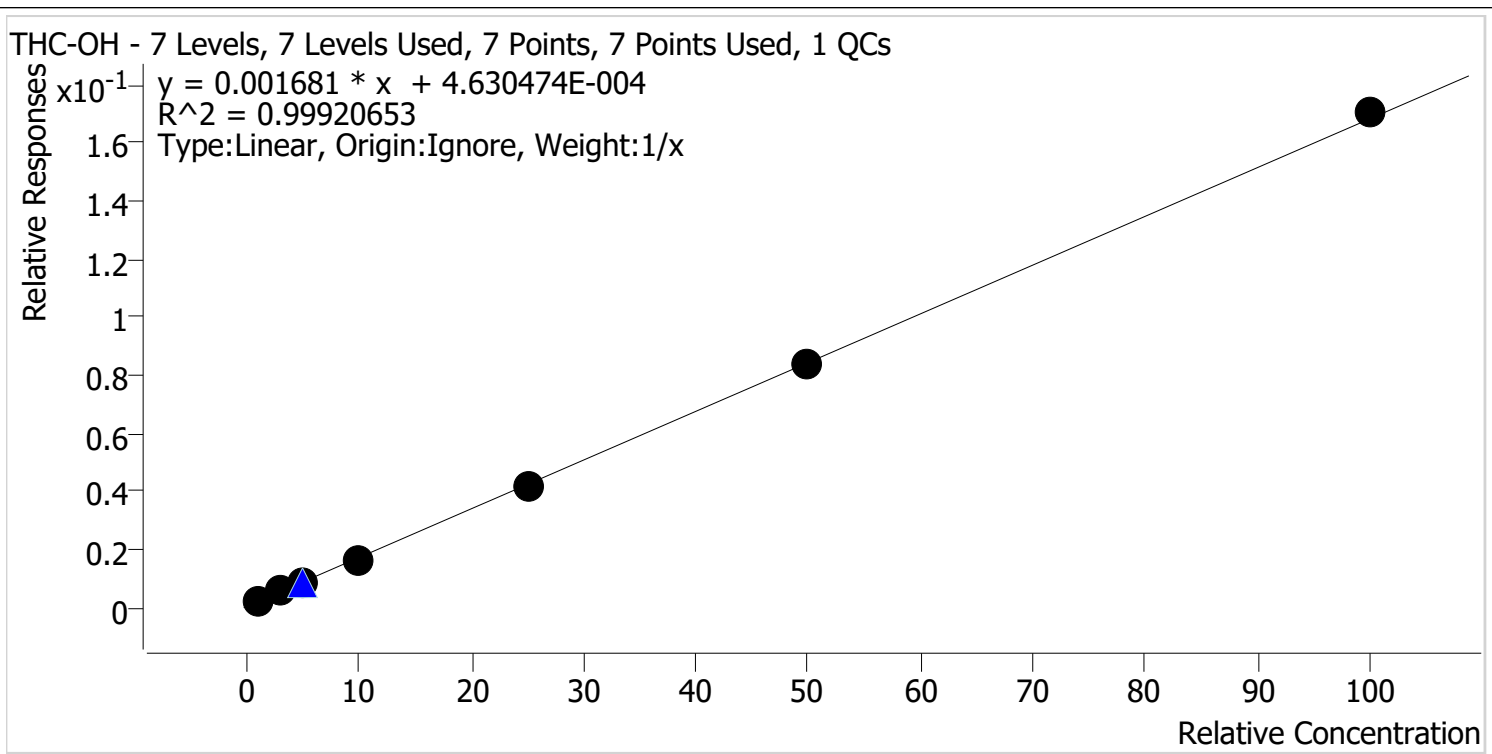
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	4.0	80.0
MJ Cal 2	2	✓	10.0	12.3	122.5
MJ Cal 3	3	✓	20.0	19.8	99.0
MJ Cal 4	4	✓	50.0	50.4	100.7
MJ Cal 5	5	✓	75.0	73.8	98.4
MJ Cal 6	6	✓	100.0	99.1	99.1
MJ Cal 7	7	✓	250.0	250.7	100.3

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AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 5/17/2022 4:40 PM
Analyst Name ISP\lagerheart
Analyte THC-OH **Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.1	113.3
MJ Cal 2	2	✓	3.0	3.0	98.6
MJ Cal 3	3	✓	5.0	4.9	97.2
MJ Cal 4	4	✓	10.0	9.0	90.4
MJ Cal 5	5	✓	25.0	24.9	99.6
MJ Cal 6	6	✓	50.0	49.9	99.7
MJ Cal 7	7	✓	100.0	101.2	101.2

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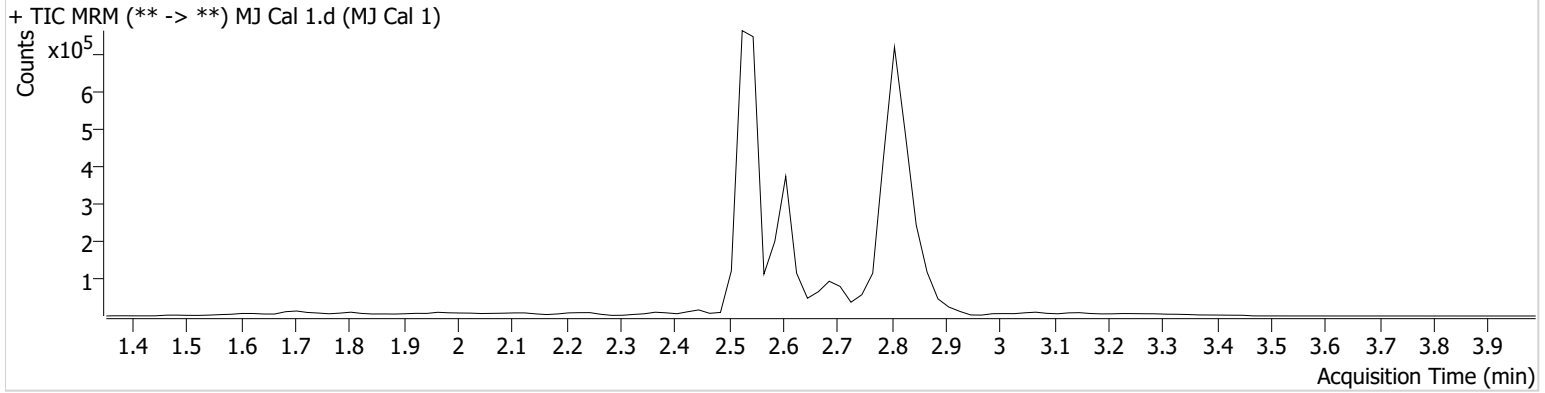


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-A1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:07:07 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.860	1523	236713	0.4712 ng/ml	Low
THC-COOH	2.609	29347	546846	4.0023 ng/ml	Low
THC-OH	2.535	5166	2182445	1.1327 ng/ml	Low

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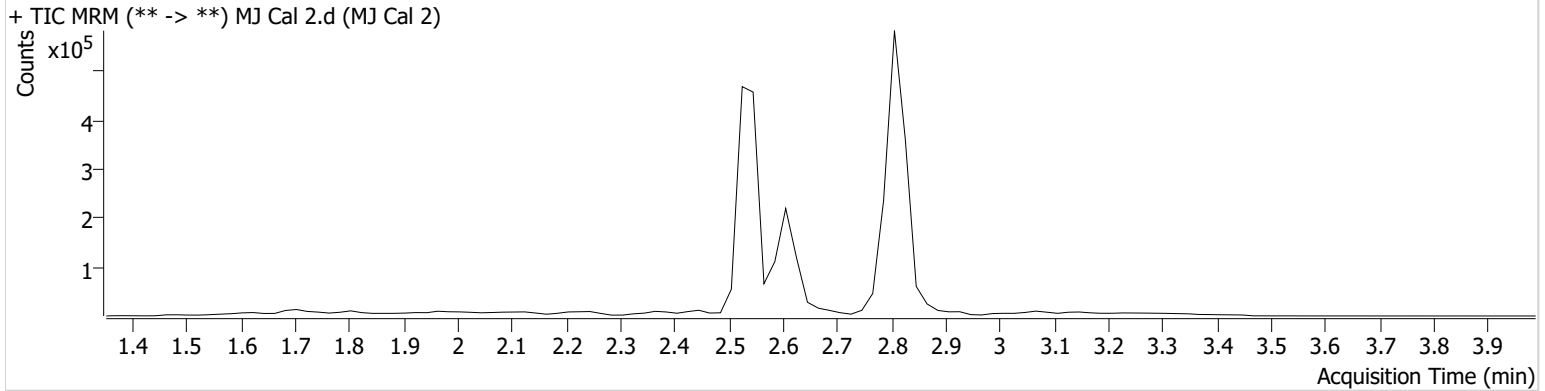


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:13:51 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	1224	35752	4.6897 ng/ml
THC-COOH	2.609	48871	308850	12.2512 ng/ml
THC-OH	2.535	6746	1241335	2.9574 ng/ml Low

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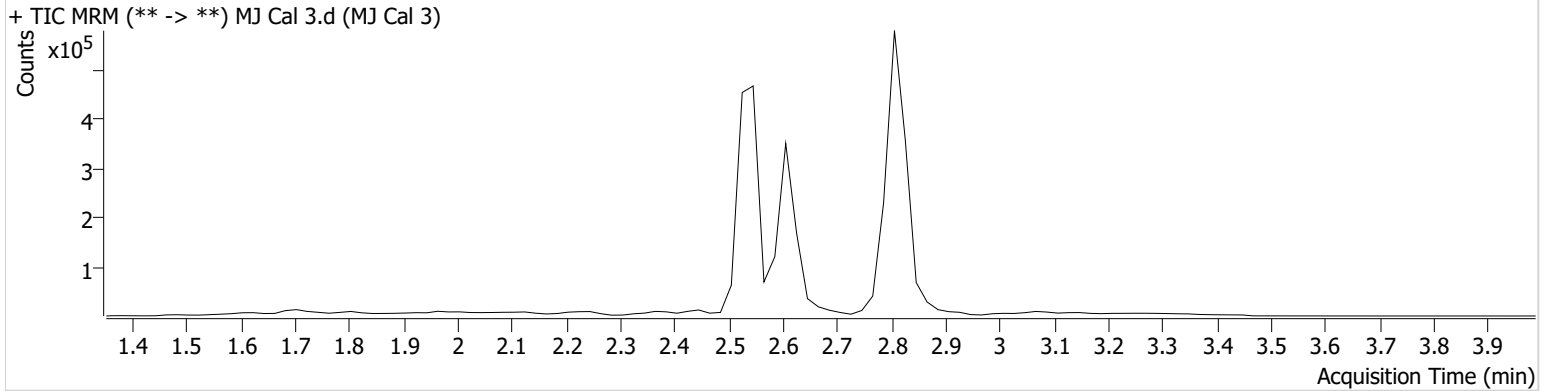


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:20:24 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	1417	38952	5.0158 ng/ml
THC-COOH	2.609	102278	402944	19.7918 ng/ml
THC-OH	2.535	10447	1210170	4.8600 ng/ml

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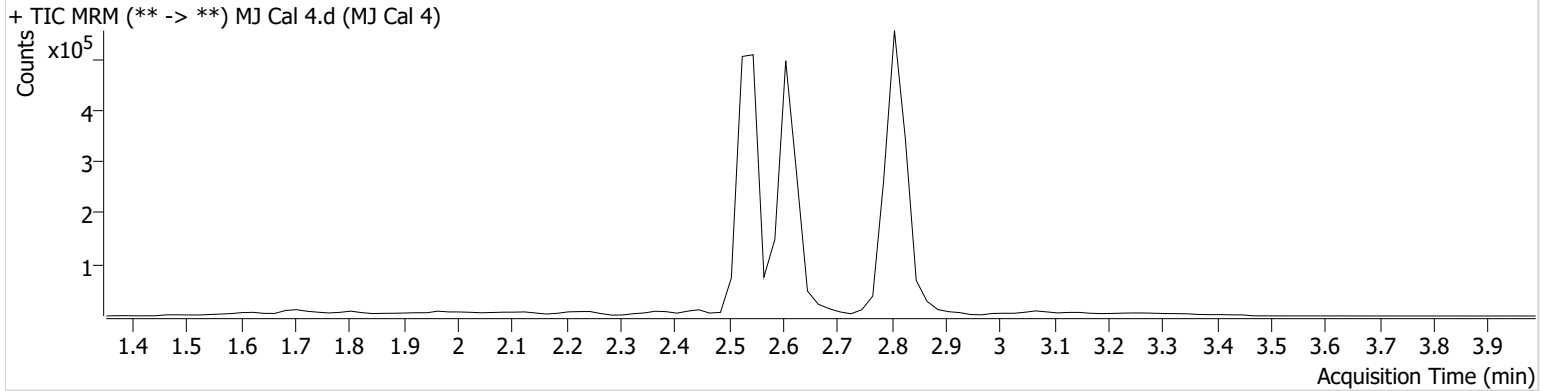


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:27:00 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	2859	42689	9.6602 ng/ml
THC-COOH	2.609	247334	385613	50.3657 ng/ml
THC-OH	2.535	19728	1260315	9.0369 ng/ml

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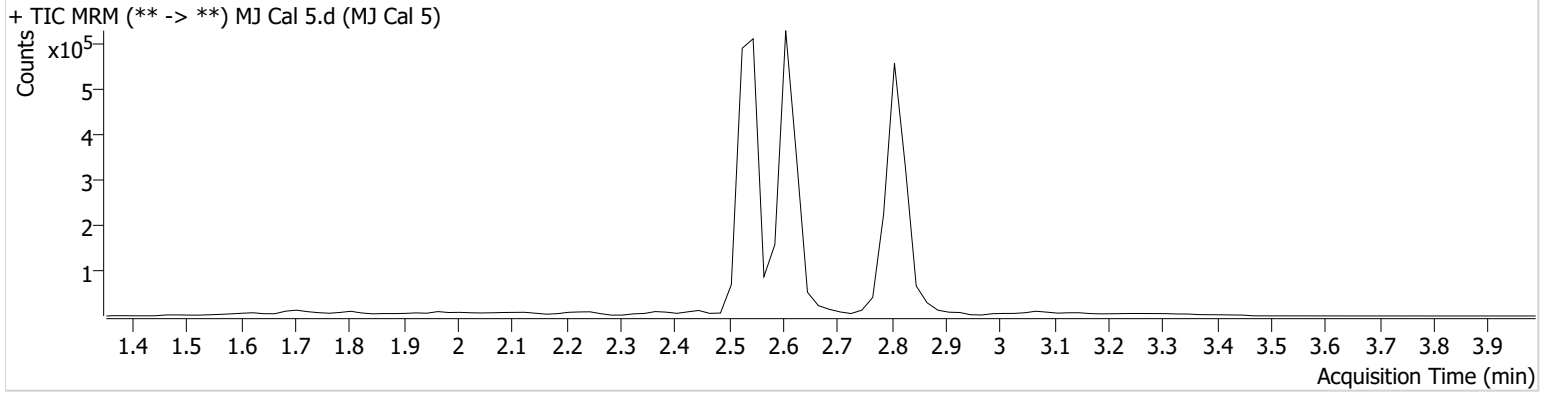


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:33:33 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	6158	37436	24.4622 ng/ml
THC-COOH	2.609	348452	371323	73.7944 ng/ml
THC-OH	2.535	51547	1218156	24.8986 ng/ml

AG

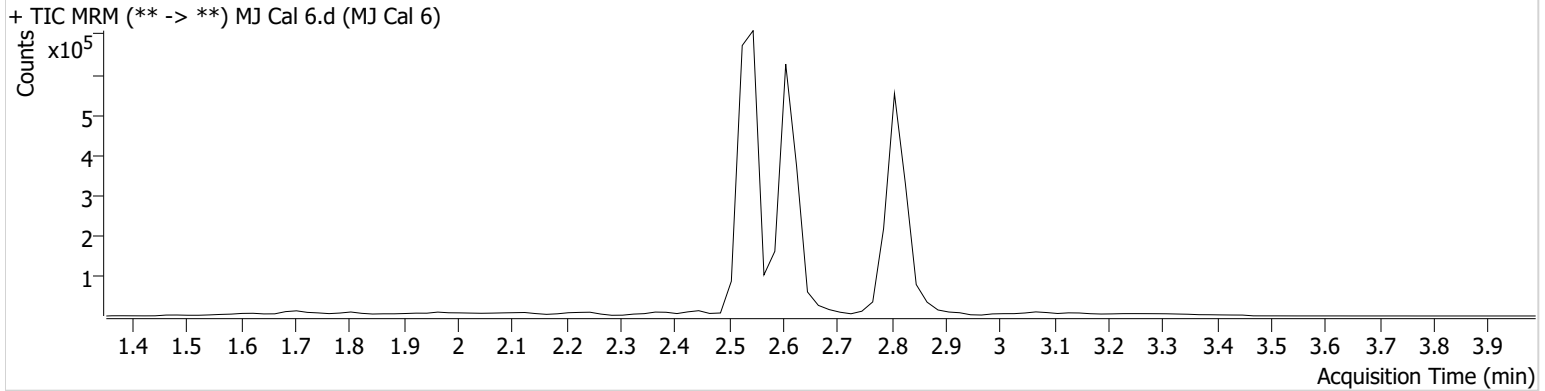


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:40:07 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	14243	41103	52.0879 ng/ml
THC-COOH	2.609	382181	303607	99.0688 ng/ml
THC-OH	2.535	92541	1097937	49.8674 ng/ml

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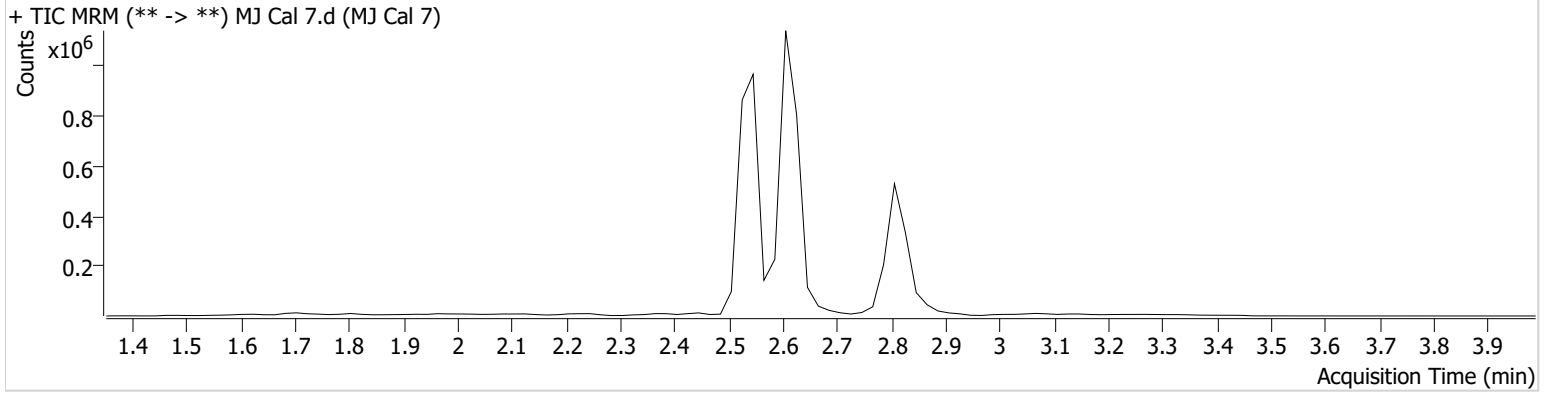


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\051222 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/17/2022 4:40:11 PM

Instrument	Falco (069901)	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	5/13/2022 10:46:40 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.860	25644	39667	97.6129 ng/ml
THC-COOH	2.609	885283	278275	250.7257 ng/ml
THC-OH	2.535	174795	1024286	101.2470 ng/ml