









Worklist: 6032

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2022-1990	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2493	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2512	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2522	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2608	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2609	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2610	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2022-2628	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1765	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1793	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1803	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1837	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1838	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1854	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1878	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1888	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1921	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1946	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1962	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1972	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1973	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 6032

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2022-1986	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1987	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1988	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1989	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1990	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1992	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1996	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2022-1997	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: 07/12/2022

Plate lot#: 211015

Mobile phase A: 10mM Amm Form

Instant Buffer I

Blank Blood Lot: Lampire 22B2015-1

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 04/15/2022

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. (SKIPPED PER DEVIATION)
- 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.
- 16. Add 50µl of 1% HCl in MeOH to all wells in the run and place ACT cover on top of plate prior to drying.
- 17. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 18. 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: Per the method, an external control was included in the run since it was after the plate re-test date. Incorrect mobile phases were specified in the method, so the samples were all re-injected with the correct mobile phases on 7/13/22.

**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



	1	2	3	4	5	6	7	8	9	10	11	12
A	CAL					M2022-2610-2	P2022-1878-1	P2022-1987-1				
B					Neg. Ctrl.	M2022-2628-2	P2022-1888-1	P2022-1988-1				
C					M2022-1990-1	P2022-1765-2	P2022-1921-1	P2022-1989-1				
D					M2022-2493-1	P2022-1793-1	P2022-1946-1	P2022-1990-1				
E					M2022-2512-1	P2022-1803-1	P2022-1962-1	P2022-1992-2				
F					M2022-2522-2	P2022-1837-1	P2022-1972-1	P2022-1996-1				
G					M2022-2608-1	P2022-1838-1	P2022-1973-1	P2022-1997-1				
H					M2022-2609-1	P2022-1854-2	P2022-1986-1	External Ctrl.				

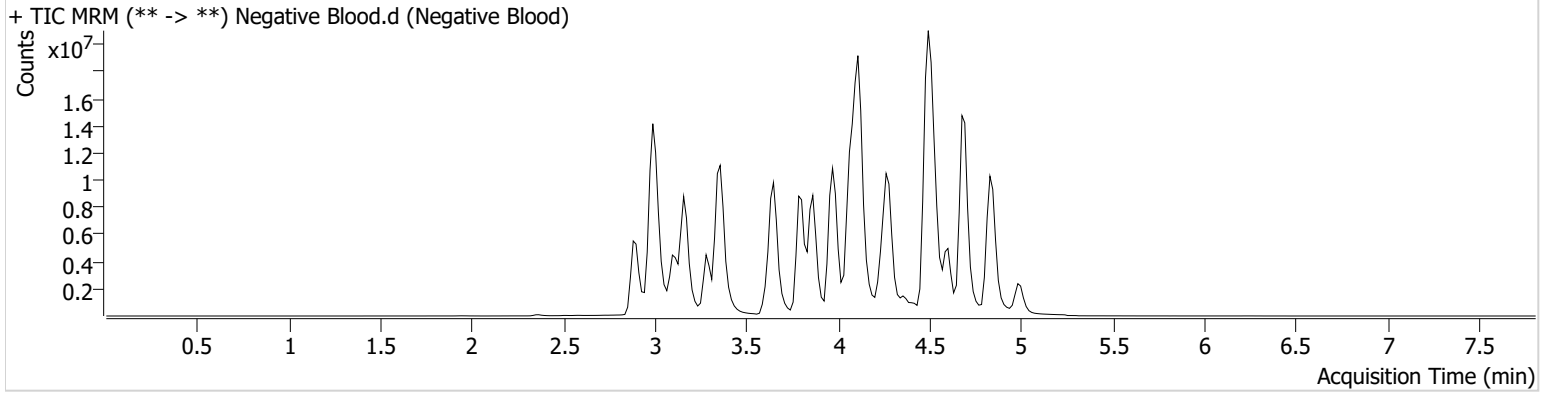
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 25.batch.bin
Calibration Last Update 7/18/2022 11:26:36 AM

Instrument	Falco (069901)	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-B5	Comment	
Injection Volume	5		
Acq. Date-Time	7/13/2022 4:02:30 PM		
Sample Info.			

Sample Chromatogram



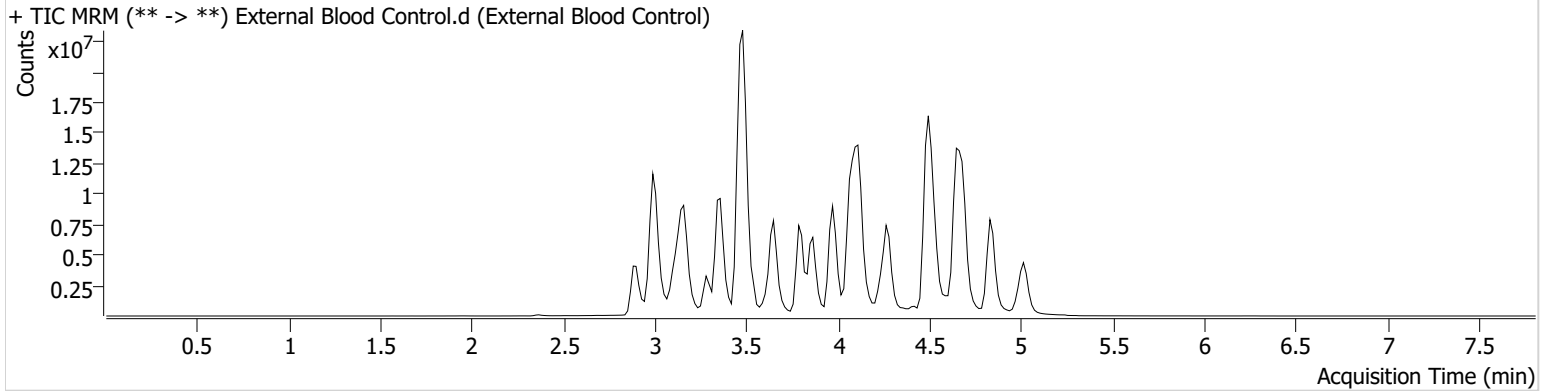
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 25.batch.bin
Calibration Last Update 7/18/2022 11:26:36 AM

Instrument	Falco (069901)	Data File	External Blood Control.d
Type	Sample	Sample	External Blood Control
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-H8	Comment	
Injection Volume	5		
Acq. Date-Time	7/13/2022 8:14:46 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.651	18992768	4377.55	597.75	21883353	72.8839
Buprenorphine	5.009	9712483	5736582.68	756009.91	4484554	86.5557
Hydrocodone	3.143	9525825	661.10	2407.52	9544664	67.1799
Tramadol	3.484	85235724	2943.54	449.21	44775918	42.1837



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.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
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.

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

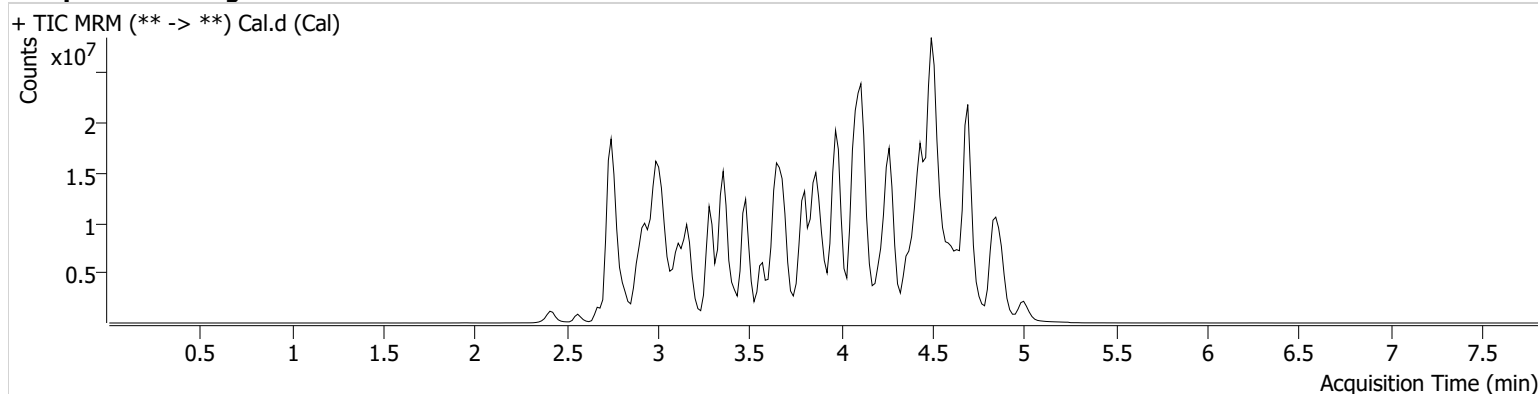
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 25.batch.bin
Calibration Last Update 7/18/2022 11:26:36 AM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-A1	Comment	
Injection Volume	5		
Acq. Date-Time	7/13/2022 3:53:56 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.793	3945667	123.69	230.12	25555026	10.0000
6-MAM	3.018	54104	15551.85	156.57	1474374	10.0000
7-aminoclonazepam	3.621	1063569	147.90	279.78	4418350	10.0000
7-aminoflunitrazepam	3.820	1725865	203.50	242358.81	4418350	10.0000
9-Hydroxyrisperidone	3.982	10011932	5590989.35	172638.12	35706806	10.0000
Acetyl Fentanyl	4.048	532768	178.73	2067.07	37353313	10.0000
Acetyl Norfentanyl	2.934	526611	57439.84	291.60	37353313	10.0000
a-hydroxyalprazolam	4.541	290565	48.75	115.53	4418350	10.0000
alpha-hydroxymidazolam	4.631	2663478	493.97	320.80	4418350	10.0000
Alpha-PHP	3.932	4612845	17340.34	4137.01	37353313	10.0000
alpha-PVP	3.656	5358691	485.55	617.84	16467647	10.0000
Alprazolam	4.651	2467499	452.81	272.34	20721175	10.0000
Amitriptyline	4.501	1863049	80.43	278.17	8734998	10.0000
Amphetamine	2.938	5421130	1429.21	1237.63	16467647	10.0000
Benzoyllecgonine	3.421	233154	368.20	33.06	404795	10.0000
Brompheniramine	4.080	151482	6135.60	586.27	49397557	10.0000
Buprenorphine	5.009	1420204	150065.99	75855.02	5675904	10.0000
Bupropion	3.902	6232882	19785.52	2696.05	23128458	10.0000
Carbamazepine	4.273	9211968	∞	3130.36	559789	10.0000
Carisoprodol	4.256	1249499	732579.57	129.79	7514010	10.0000
Chlordiazepoxide	4.760	556696	517.66	483.42	20721175	10.0000
Chlorpheniramine	3.991	9418745	7986.94	85.32	49397557	10.0000
Chlorpromazine	4.695	3388021	1302497.20	193.33	15729793	10.0000
Citalopram	4.110	4071617	430.15	504.85	49397557	10.0000
Clomipramine	4.696	5034845	9719.39	21328.74	49397557	10.0000
Clonazepam	4.465	1033393	265.15	511.32	20721175	10.0000
Clonazepam	4.400	1433936	3944.00	151105.53	20721175	10.0000
Clozapine	4.509	5147134	7464.93	534.18	19498419	10.0000
Cocaehtylene	3.864	5827415	2444520.96	3632.67	28320015	10.0000
Cocaine	3.650	5210015	67721.71	439.80	28320015	10.0000
Codeine	2.945	464727	1318.99	448.08	11598624	10.0000
Cyclobenzaprine	4.409	3826658	474.86	93.20	8734998	10.0000
Desipramine	4.410	8958819	740.93	501.87	8734998	10.0000
Dextromethorphan	4.131	2513444	13408.66	1475.24	14510532	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrorphan	3.423	3078623	1953.17	1004.96	14510532	10.0000
Diazepam	4.884	1216174	368.39	295.40	20721175	10.0000
Dihydrocodeine	2.822	1223575	1074.04	480.49	11598624	10.0000
Diphenhydramine	4.086	12741104	901526.11	355699.56	49397557	10.0000
Doxepin	4.207	3337366	2192.17	122.17	33506229	10.0000
Doxylamine	3.683	13138432	25585.40	12348.56	14510532	10.0000
Duloxetine	4.376	114656	7424.97	9008.46	1968380	10.0000
EDDP	4.115	1061499	424.40	128856.65	2611817	10.0000
Estazolam	4.561	6434200	1179.79	335.15	20721175	10.0000
Etizolam	4.662	300138	209824.73	789156.11	20721175	10.0000
Fentanyl	4.278	428596	258.20	244.62	29936046	10.0000
Flualprazolam	4.525	681841	778433.13	391.83	20721175	10.0000
Flunitrazepam	4.589	1981860	463.70	330.27	20721175	10.0000
Fluoxetine	4.359	4958158	761.30	96.57	9040597	10.0000
Flurazepam	4.352	3858985	1831454.10	906.87	20721175	10.0000
Hydrocodone	3.128	1723095	697.35	308.60	11598624	10.0000
Hydromorphone	2.566	1354840	747.65	1673.78	249871	10.0000
Hydroxyzine	4.629	4226516	1734.28	795.13	49397557	10.0000
Imipramine	4.454	9189979	1233.01	343.44	8734998	10.0000
Ketamine	3.779	5179203	839.61	278.43	14866719	10.0000
Lamotrigine	3.669	333775	1271.19	3074.41	49397557	10.0000
Levamisole	3.073	3062888	1201.50	2471.39	28320015	10.0000
Levetiracetam	2.677	1553159	808.64	1592.59	49397557	10.0000
Lorazepam	4.464	457235	212.03	114.80	20721175	10.0000
Maprotiline	4.501	1210058	48.23	112.95	8734998	10.0000
MDA	3.044	3143422	642.04	550.44	33649749	10.0000
MDEA	3.273	4928457	245.13	228.24	33649749	10.0000
MDMA	3.120	6515524	926.87	391.04	33649749	10.0000
Meperidine	3.670	2979190	523.55	349.95	14510532	10.0000
Meprobamate	3.704	975489	2193.63	140.32	7514010	10.0000
Methadone	4.435	7786996	791408.19	253.35	2611817	10.0000
Methamphetamine	3.030	7573956	6626.31	398.01	33649749	10.0000
Methocarbamol	3.609	565860	1078.06	261.61	2611817	10.0000
Methylphenidate	3.579	13991401	316.80	299.11	23855969	10.0000
Metoprolol	3.483	911627	319.22	469.67	14510532	10.0000
Midazolam	4.801	836681	339.17	834.05	20721175	10.0000
Mirtazapine	4.256	4748602	889502.16	5550.20	14510532	10.0000
Mitragynine	4.352	669454	631768.83	509.13	14510532	10.0000
Morphine	2.399	335672	716.71	307.25	249871	10.0000
Norbuprenorphine	3.875	106684	93341.11	106.86	5675904	10.0000
Nordiazepam	4.732	1673918	920.93	∞	20721175	10.0000
Norfentanyl	3.364	9089626	13368.36	1033.46	37353313	10.0000
Norhydrocodone	2.962	113985	46.39	42.73	249871	10.0000
Norketamine	3.888	865566	237.80	2440.81	14866719	10.0000
Normeperidine	3.641	2584924	355770.70	781.45	49397557	10.0000
Noroxycodone	2.929	1980286	∞	494.09	14866719	10.0000
Nortriptyline	4.456	2387143	344.17	675.49	8734998	10.0000
O-desmethyl-tramadol	2.963	10532537	546.87	120.64	49397557	10.0000
O-desmethylvenlafaxine	3.284	2161391	446.71	6003.60	11090028	10.0000
Olanzapine	3.957	2540793	1046297.89	797.79	559789	10.0000
Oxazepam	4.546	2500825	5291.70	∞	10577204	10.0000
Oxycodone	3.004	2786915	526.16	1148.81	14866719	10.0000
Oxymorphone	2.426	2549177	1377.73	380.66	249871	10.0000
Paroxetine	4.386	664617	1381987.34	512.52	9040597	10.0000
Phenazepam	4.676	1870545	555.16	584.33	20721175	10.0000
Phencyclidine	3.963	7167123	14045.26	800.36	14510532	10.0000
Phentermine	3.183	1842122	925.85	70.11	23855969	10.0000
Phenytoin	4.164	950745	423.25	697.09	559789	10.0000
Primidone	3.503	2110267	432562.22	774.66	559789	10.0000
Promethazine	4.438	10428379	826.90	201.23	49397557	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Pseudoephedrine	2.754	57268264	12923.98	1650.31	33649749	10.0000
Quetiapine	4.690	5431847	2012278.92	506.35	40856988	10.0000
Risperidone	4.213	8369110	10854.71	383.32	35706806	10.0000
Sertraline	4.605	1600352	794867.84	920.98	9040597	10.0000
Sufentanil	4.705	374779	181330.25	183.00	37353313	10.0000
Tapentadol	3.488	6269779	271.33	576.17	14866719	10.0000
Temazepam	4.698	3763772	2451.95	82.22	20721175	10.0000
Topiramate	3.877	47607	141553.62	8087.70	286032	10.0000
Tramadol	3.484	22291446	700.56	82.01	49397557	10.0000
Trazodone	4.874	8369396	441.91	1169.12	33506229	10.0000
Venlafaxine	3.837	8777365	8766.19	434.05	9040597	10.0000
Zaleplon	4.375	2461148	373.00	176.89	40856988	10.0000
Zolpidem	4.513	9711993	2414.99	940.70	40856988	10.0000
Zopiclone	4.414	252237	126113.98	5502.66	1254890	10.0000

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

Extraction Date: 07/12/2022

Analyst: Celena Shrum

Plate lot#: 220309

Plate Retest Date: 09/09/2022

Mobile phase A: 10mM Amm Form

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Blood Lot: Lampire 22B2015-1

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: Incorrect mobile phases were specified in the method, so the samples were reinjected on 7/13/22 with the correct mobile phases.

	1	2	3	4	5	6
a	cal 1ng	QC 2	M2022-2610-2	P2022-1878-1	P2022-1987-1	
b	cal 3 ng	Neg. Ctrl.	M2022-2628-2	P2022-1888-1	P2022-1988-1	
c	cal 5 ng	M2022-1990-1	P2022-1765-2	P2022-1921-1	P2022-1989-1	
d	cal 10ng	M2022-2493-1	P2022-1793-1	P2022-1946-1	P2022-1990-1	
e	cal 25 ng	M2022-2512-1	P2022-1803-1	P2022-1962-1	P2022-1992-2	
f	cal 50 ng	M2022-2522-2	P2022-1837-1	P2022-1972-1	P2022-1996-1	
g	cal 100 ng	M2022-2608-1	P2022-1838-1	P2022-1973-1	P2022-1997-1	
h	QC 1	M2022-2609-1	P2022-1854-2	P2022-1986-1		

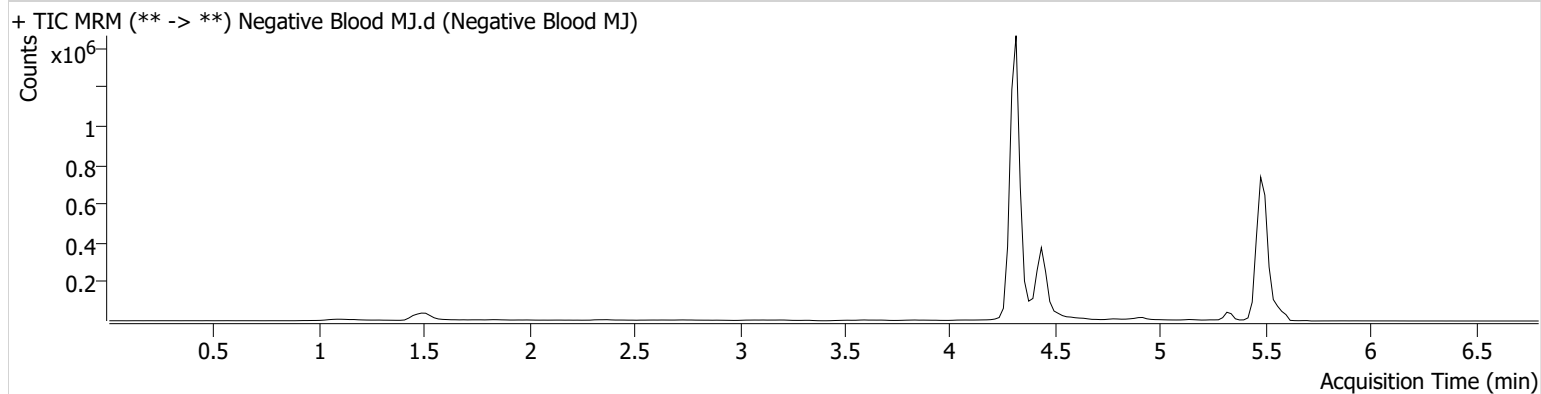
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Negative Blood MJ.d
Type	Sample	Sample	Negative Blood MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-B2	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 11:15:52 AM		
Sample Info.			

Sample Chromatogram



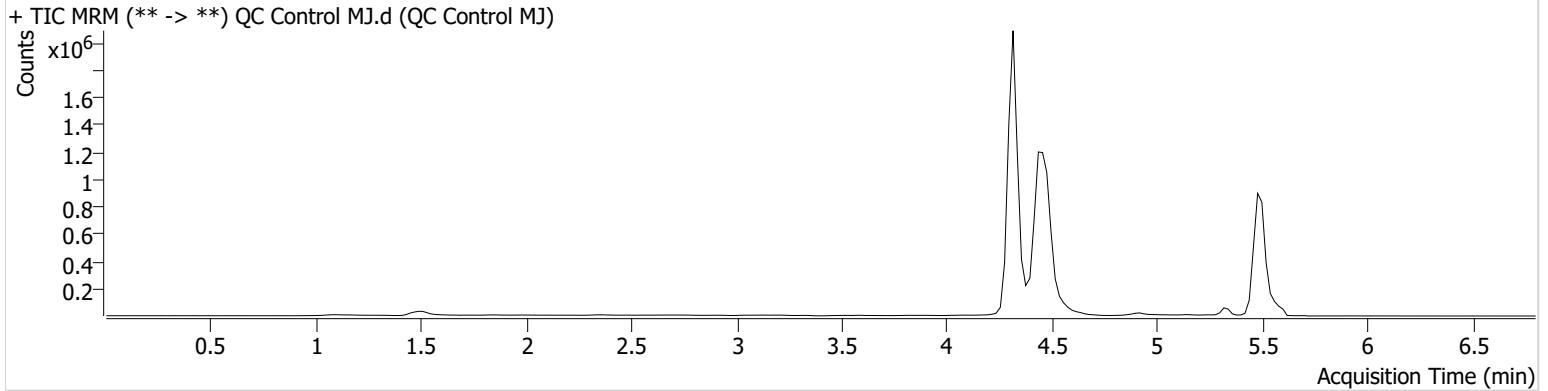
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	QC Control MJ.d
Type	QC	Sample	QC Control MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 11:00:43 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.509	15336	415638	4.7672 ng/ml
THC-COOH	4.476	852154	3565829	16.5377 ng/ml
THC-OH	4.322	54106	6293979	4.8025 ng/ml

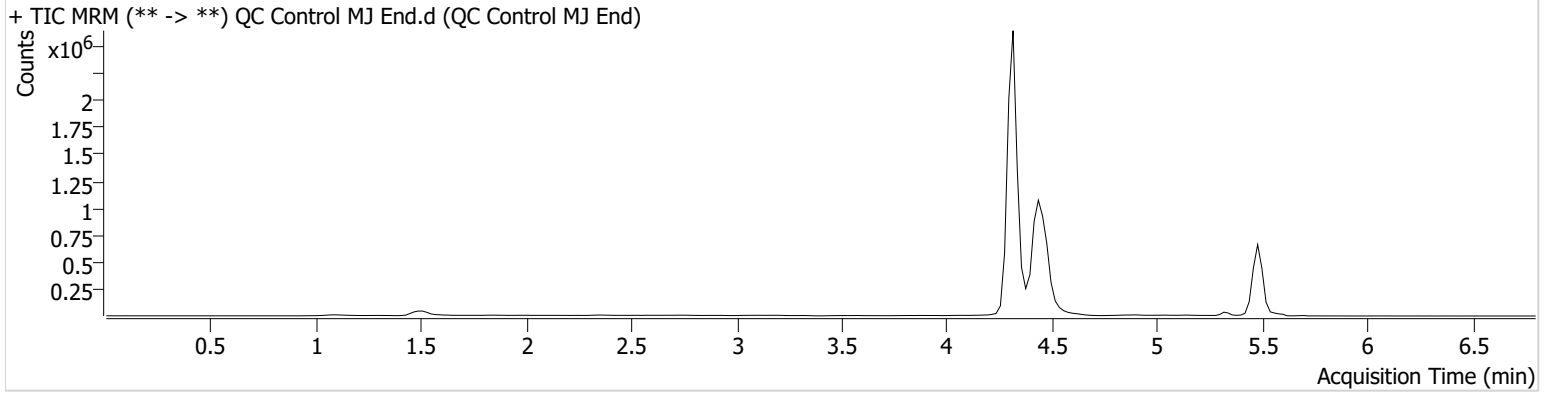
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	QC Control MJ End.d
Type	QC	Sample	QC Control MJ End
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-A2	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 3:02:53 PM		

Sample Chromatogram



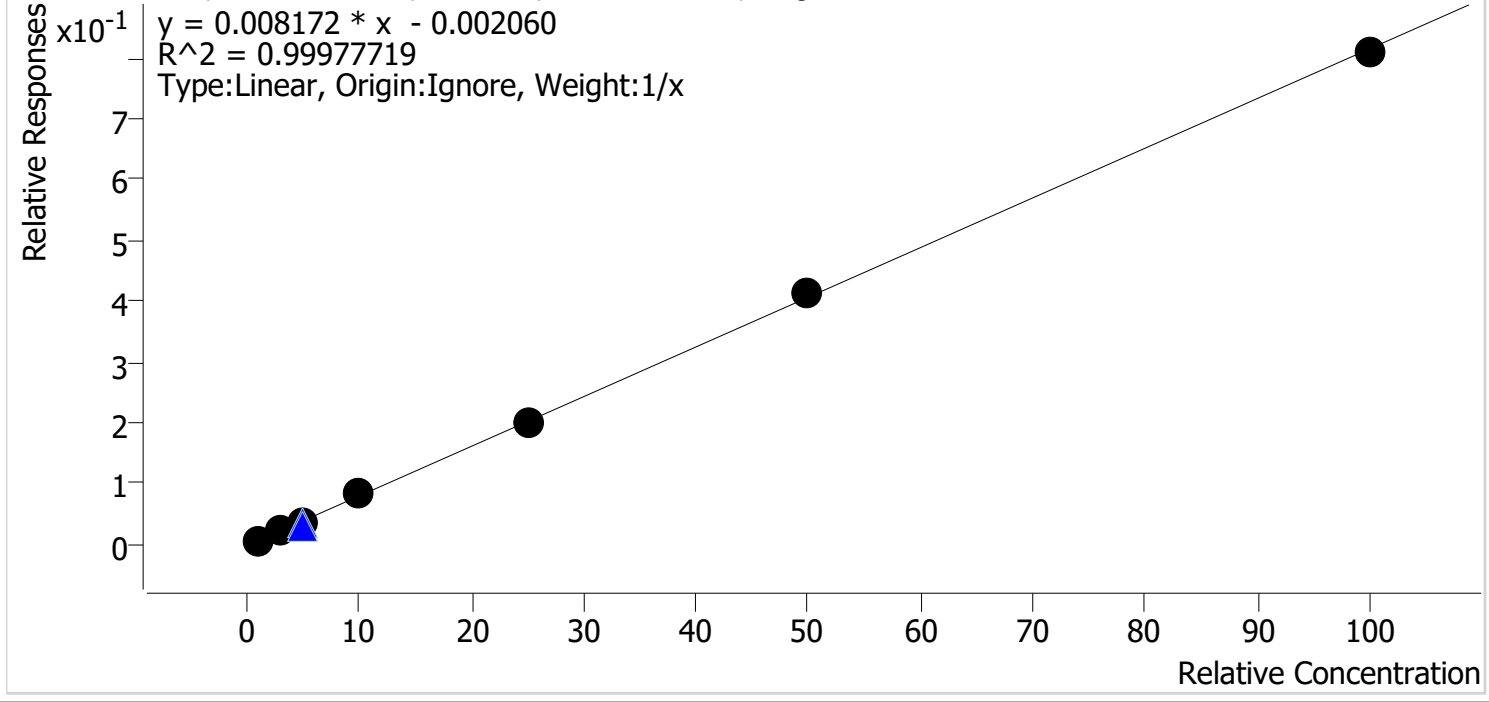
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.510	9842	308332	4.1582 ng/ml
THC-COOH	4.476	617433	3076030	13.8384 ng/ml
THC-OH	4.322	67949	8082843	4.7011 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Last Cal. Update 7/14/2022 3:25 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs

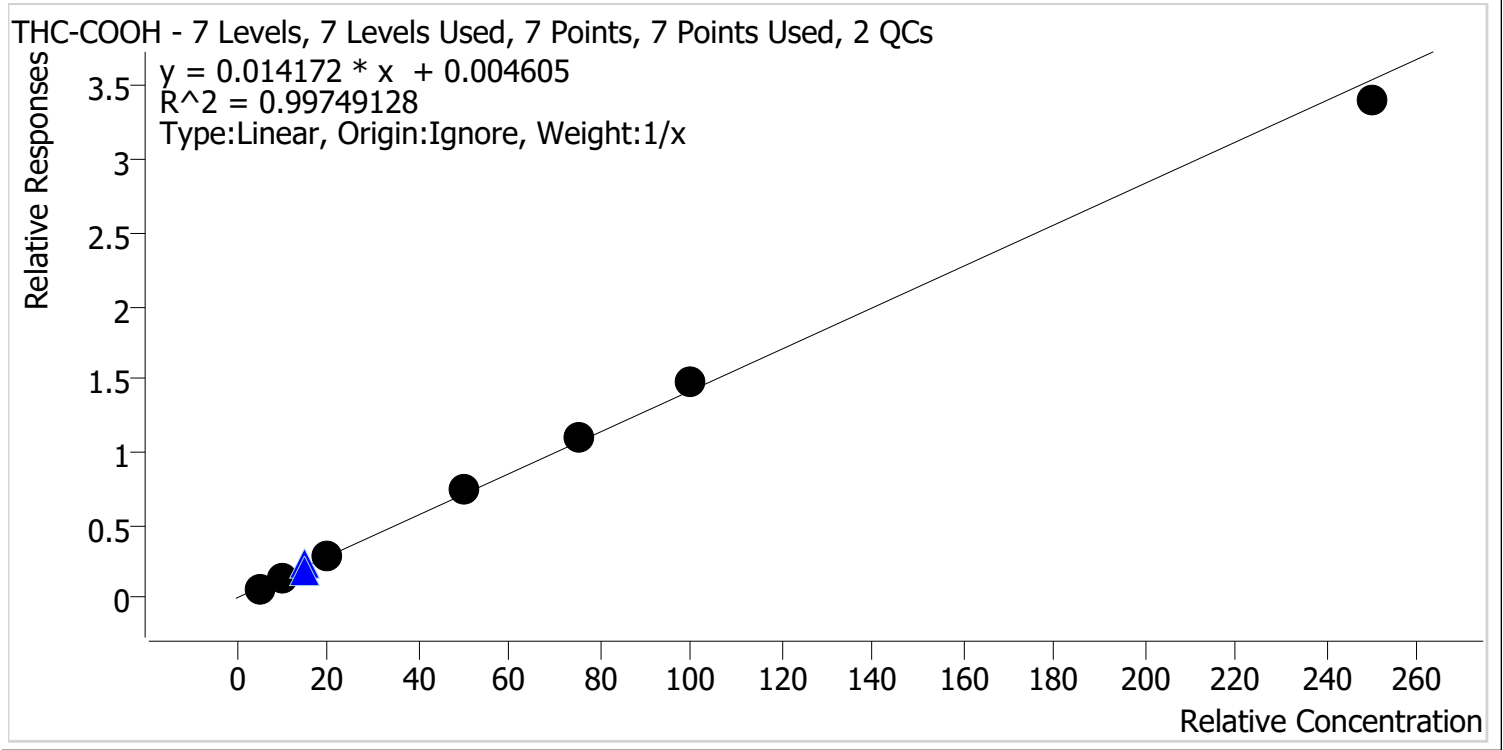


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.0	100.8
Cal 2 MJ	2	✓	3.0	3.0	100.3
Cal 3 MJ	3	✓	5.0	4.8	95.6
Cal 4 MJ	4	✓	10.0	10.3	102.7
Cal 5 MJ	5	✓	25.0	24.9	99.7
Cal 6 MJ	6	✓	50.0	50.8	101.6
Cal 7 MJ	7	✓	100.0	99.2	99.2



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Last Cal. Update 7/14/2022 3:25 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

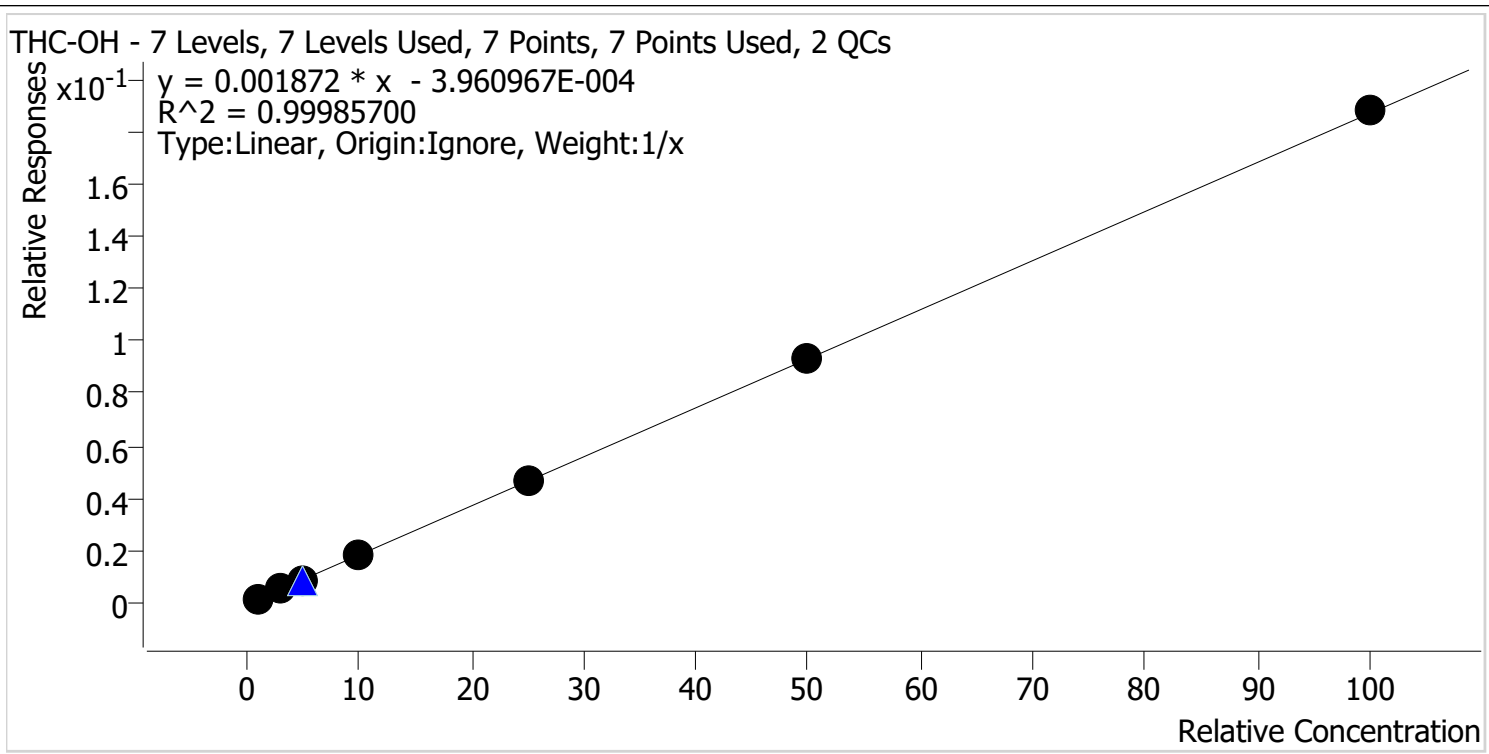


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	5.0	4.3	86.8
Cal 2 MJ	2	✓	10.0	10.2	101.6
Cal 3 MJ	3	✓	20.0	20.4	102.0
Cal 4 MJ	4	✓	50.0	52.6	105.1
Cal 5 MJ	5	✓	75.0	77.8	103.7
Cal 6 MJ	6	✓	100.0	104.9	104.9
Cal 7 MJ	7	✓	250.0	239.9	96.0



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Last Cal. Update 7/14/2022 3:25 PM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.1	108.5
Cal 2 MJ	2	✓	3.0	2.9	96.7
Cal 3 MJ	3	✓	5.0	4.8	96.8
Cal 4 MJ	4	✓	10.0	9.8	97.8
Cal 5 MJ	5	✓	25.0	25.0	100.0
Cal 6 MJ	6	✓	50.0	49.9	99.8
Cal 7 MJ	7	✓	100.0	100.5	100.5

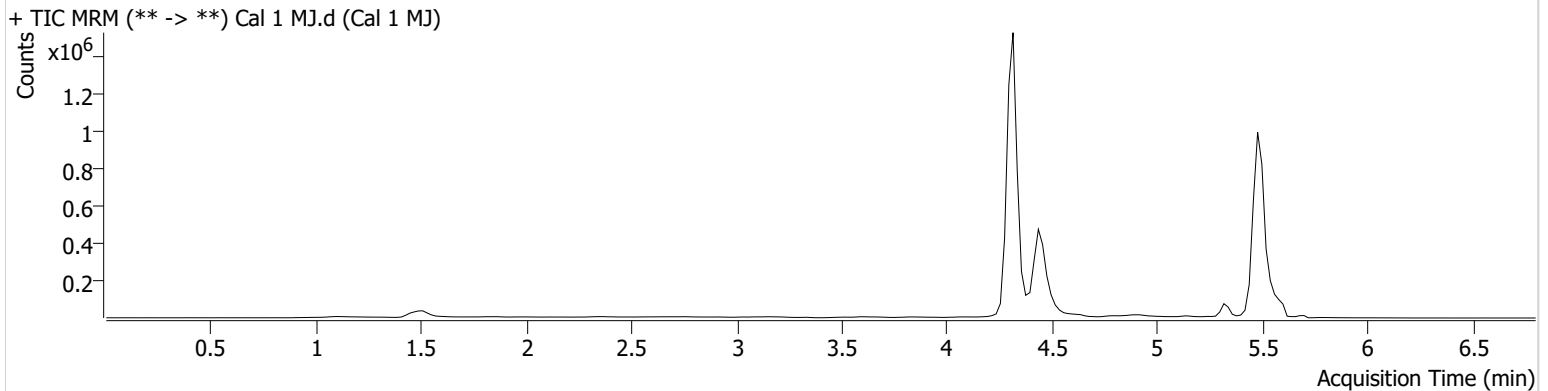
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 1 MJ.d
Type	Cal	Sample	Cal 1 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-A1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:07:34 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.510	3583	579900	1.0082 ng/ml	Low
THC-COOH	4.476	100232	1516557	4.3386 ng/ml	Low
THC-OH	4.322	8443	5164016	1.0847 ng/ml	Low

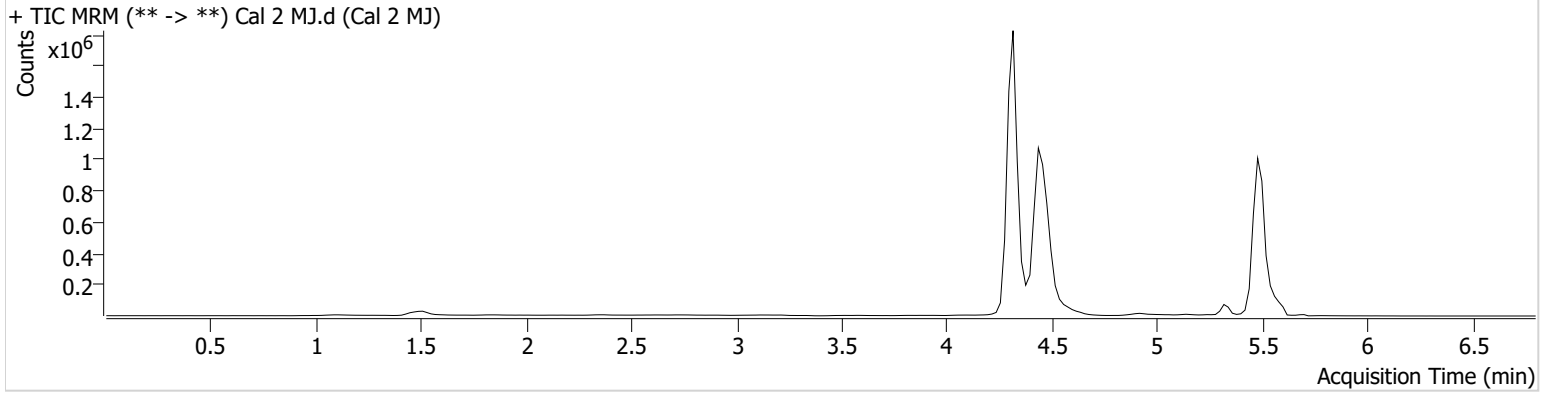
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 2 MJ.d
Type	Cal	Sample	Cal 2 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:15:18 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.510	12145	538932	3.0096 ng/ml
THC-COOH	4.476	500293	3367844	10.1570 ng/ml
THC-OH	4.322	30143	5984711	2.9014 ng/ml Low

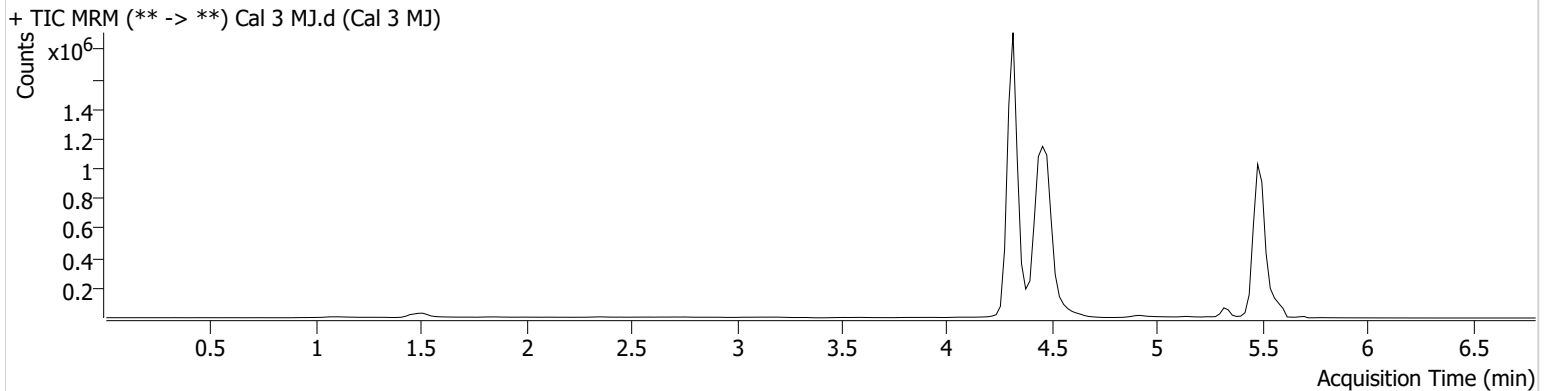
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 3 MJ.d
Type	Cal	Sample	Cal 3 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:22:52 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.509	19992	540197	4.7808 ng/ml
THC-COOH	4.476	950764	3235481	20.4099 ng/ml
THC-OH	4.322	51728	5968550	4.8401 ng/ml

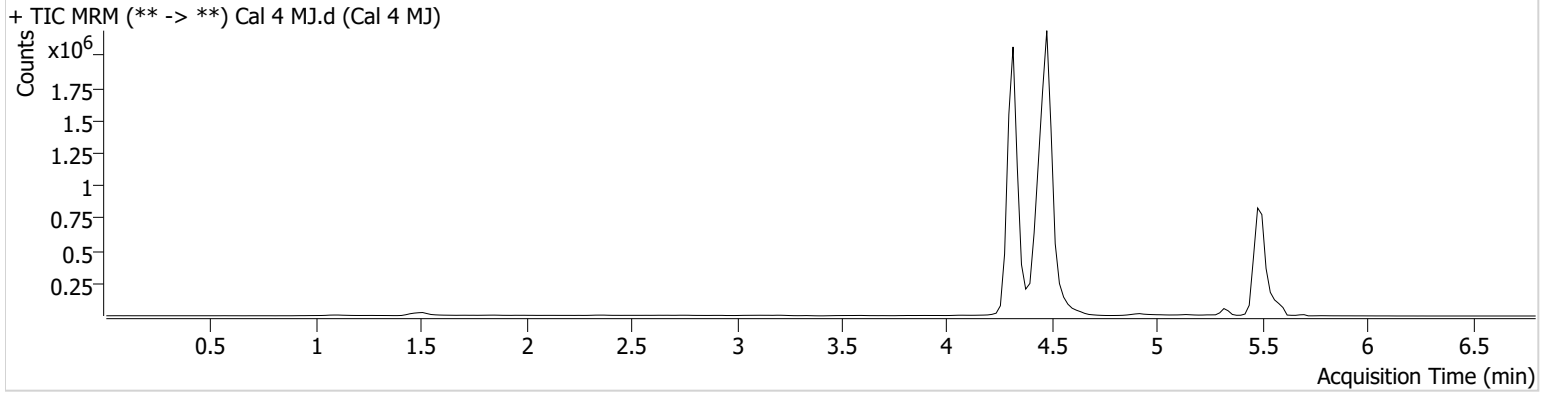
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 4 MJ.d
Type	Cal	Sample	Cal 4 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:30:26 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.510	35195	429825	10.2719 ng/ml
THC-COOH	4.476	2331079	3110699	52.5519 ng/ml
THC-OH	4.322	107089	5979203	9.7766 ng/ml

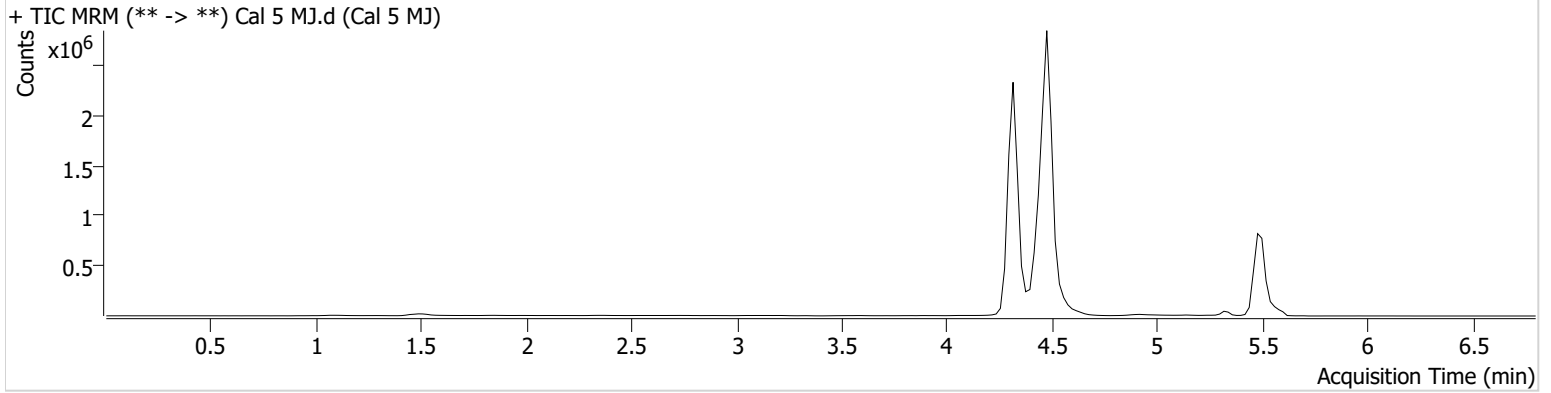
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 5 MJ.d
Type	Cal	Sample	Cal 5 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:38:00 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.510	81988	406541	24.9306 ng/ml
THC-COOH	4.476	3197158	2889428	77.7513 ng/ml
THC-OH	4.322	258331	5567429	24.9918 ng/ml

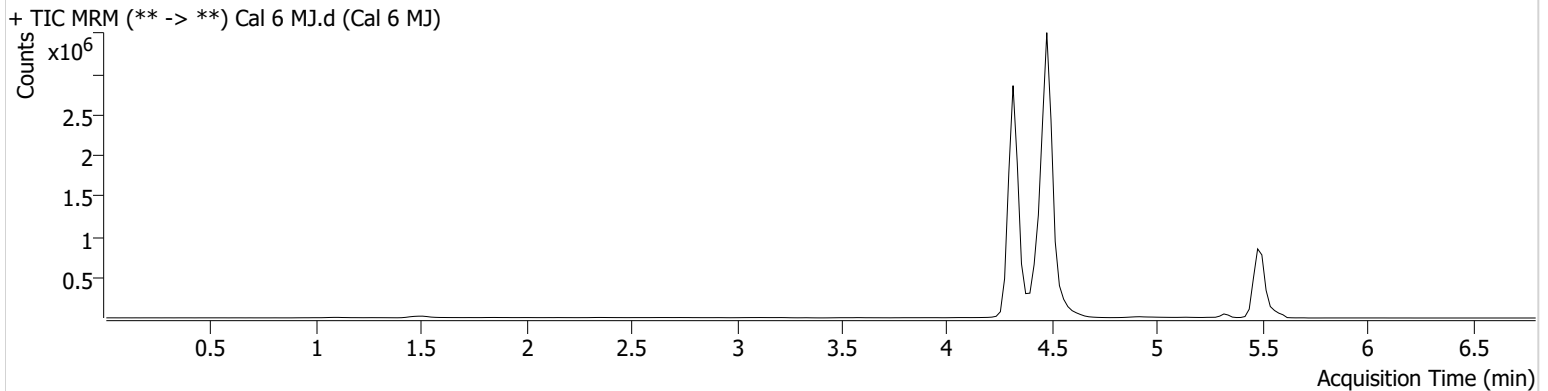
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 6 MJ.d
Type	Cal	Sample	Cal 6 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:45:34 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.510	159484	386039	50.8066 ng/ml
THC-COOH	4.476	4078638	2735893	104.8671 ng/ml
THC-OH	4.322	486046	5226521	49.8764 ng/ml

CS

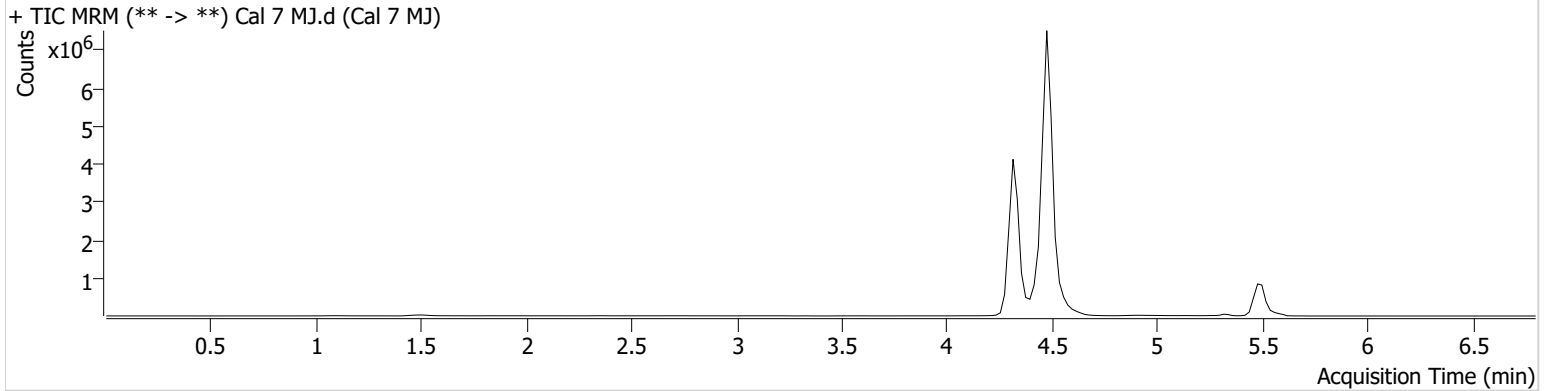


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\071222 AM 25 26 CS\Reinjects\QuantResults\AM 26.batch.bin
Calibration Last Update 7/14/2022 3:25:14 PM

Instrument	Falco (069901)	Data File	Cal 7 MJ.d
Type	Cal	Sample	Cal 7 MJ
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	7/13/2022 10:53:09 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.510	302499	374131	99.1924 ng/ml
THC-COOH	4.476	9215352	2706555	239.9242 ng/ml
THC-OH	4.322	982834	5232241	100.5291 ng/ml