










Worklist: 2986

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2019-0255	1	142845	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0262	1	142846	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0263	1	142847	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0272	1	142848	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0279	1	142839	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0287	1	142840	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0325	1	142842	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0344	1	142843	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0349	1	142844	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0350	1	142841	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0354	1	142810	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	
C2019-0358	1	142850	AM 25/AM 26 Blood MultiDrug/THC Screen by LI	



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

Extraction Date: 2/26/19

Analyst: Britany Wylie

Plate lot#: 0543908

Plate Expiration: November 28 2019

Mobile phase A: 10mM Amm Form
0.5M Ammonium Hydroxide

Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol

Blank Blood Lot: 19A207P3

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

LCMS-QQQ ID: 62340

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.
- 3. Create worklist: Data Path Name: 022619 AM25-26 Reinject_

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL 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: 66792
- 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.
SPE Dry ID: 66819
- 16. Reconstitute in **100µL 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: mdsp1 22619, mdsp2 22619
- 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, Discretionary Range 2-5.
- 4. Did all QCs pass for each analyte? Y / N yes
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *_instrument stopped communicating with the computer part way through p2 external control, computer was restarted and samples were set to reinject. (low volume on reinjection of cals & qcs- evaluation of original injections retention times was completed and used for data analysis. During review of p2 external control it was noted that data was present for compounds before 6 min, sample was reconstituted and reinjected on 22719)*

Toxicology AM method 25 external prep information

working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline
Stock solution 1mg/ml 100 ul each in 9600ul meOH

Ppd 4/23/18 Exp: 4/23/19 lot 42318 by Amn

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Hydrocodone	FE09091505	9/1/2020
nortriptyline	FN06191503	8/1/2020
sertraline	FN01081501	3/1/2020

AM 25 control 100 ul working solution (42318) in 9900 ul neg blood
ppd 04/23/18 exp 4/23/19 lot 42318

neg blood lot 17J20718

by Amn

Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

Compound Method		p1 cal		p1 cal		Qualifier 1 M...		Qualifier 1 Results		ISTD Method		ISTD Results			
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 211...	2/26/2019 1:33 PM	5.26	1041	10.00	9.02	328.2 -> 165...	593	3.72	2846...	372	6-MAM-D6	334.2 -> 165...	5.22	36292
7-aminoclonazepam	286.1 -> 121...	2/26/2019 1:33 PM	5.55	20647	10.00	136.24	286.1 -> 222...	14795	2846...	2846...	2846...	7-Aminoclonazepam-D4	290.1 -> 121...	5.55	86600
a-hydroxyalprazolam	325.1 -> 297...	2/26/2019 1:33 PM	6.40	5444	10.00	252.38	325.1 -> 215...	3143	24.85	24.85	24.85	a-hydroxyalprazolam-D5	330.1 -> 302...	6.38	24004
alpha-PVP	232.2 -> 91.0	2/26/2019 1:33 PM	5.84	111751	10.00	232.2 -> 77.1	232.2 -> 77.1	47623	447.08	447.08	447.08	alpha-PVP-d8	240.2 -> 91.1	5.76	509509
Alprazolam	309.1 -> 281...	2/26/2019 1:33 PM	6.49	31994	10.00	291.48	309.1 -> 205...	33550	152.36	152.36	152.36	Alprazolam-D5	314.1 -> 286...	6.46	149277
Amphetamine	136.1 -> 91.1	2/26/2019 1:33 PM	4.87	157807	10.00	174.91	136.1 -> 119...	87073	120.94	120.94	120.94	Amphetamine-D11	147.2 -> 130...	4.83	174062
Benzylecgonine	290.1 -> 168...	2/26/2019 1:33 PM	5.35	11284	10.00	61.67	290.1 -> 105...	7108	123.84	123.84	123.84	Benzylecgonine-D8	298.2 -> 171...	5.32	51616
Buprenorphine	468.3 -> 55.1	2/26/2019 1:33 PM	7.32	43260	10.00	2635.13	468.3 -> 101...	5421	113.61	8999...	8999...	Buprenorphine-D4	472.3 -> 59.3	7.30	204647
Bupropion	240.1 -> 184...	2/26/2019 1:33 PM	6.11	116146	10.00	5279.09	240.1 -> 131...	56400	8999...	8999...	8999...	Bupropion-D9	249.2 -> 185...	6.07	459592
Carisoprodol	261.2 -> 176...	2/26/2019 1:33 PM	6.13	44077	10.00	248.33	261.2 -> 55.3	46769	71.68	71.68	71.68	Carisoprodol-D7	268.2 -> 183...	6.13	288017
Citalopram	325.2 -> 109...	2/26/2019 1:33 PM	6.18	133133	10.00	89.34	325.2 -> 262...	33632	4143...	4143...	4143...	Citalopram-D6	331.2 -> 109...	6.15	649938
Clonazepam	316.1 -> 269...	2/26/2019 1:33 PM	6.36	135111	10.00	76.11	316.1 -> 213...	3194	36.35	36.35	36.35	Clonazepam-D4	320.1 -> 217...	6.34	17265
Cocaine	304.2 -> 182...	2/26/2019 1:33 PM	5.77	112149	10.00	96.63	304.2 -> 105...	26978	68.83	68.83	68.83	Cocaine-D3	307.2 -> 185...	5.75	478293
Codeine	300.2 -> 215...	2/26/2019 1:33 PM	5.22	5830	10.00	17.69	300.2 -> 165...	6093	9.38	9.38	9.38	Codeine-D6	306.2 -> 218...	5.16	28955
Cyclobenzaprine	276.2 -> 214...	2/26/2019 1:33 PM	6.51	80486	10.00	129.42	276.2 -> 231...	24039	23.49	23.49	23.49	Cyclobenzaprine-D3	279.2 -> 215...	6.49	382975
Dextromethorphan	272.2 -> 171...	2/26/2019 1:33 PM	6.19	33502	10.00	224.47	272.2 -> 147...	28477	350.57	350.57	350.57	Dextromethorphan-D3	275.2 -> 171...	6.19	167879
Dextropropran	258.2 -> 157...	2/26/2019 1:33 PM	5.51	31196	10.00	72.53	258.2 -> 133...	19473	195.43	195.43	195.43	Dextropropran-D3	261.2 -> 157...	5.49	165193
Diazepam	285.1 -> 193...	2/26/2019 1:33 PM	6.71	27065	10.00	70.72	285.1 -> 153...	18033	215.49	215.49	215.49	Diazepam-D5	290.1 -> 198...	6.71	119801
Dihydrocodeine	302.2 -> 198...	2/26/2019 1:33 PM	4.94	18098	10.00	45.22	302.2 -> 128...	12981	23.67	23.67	23.67	Dihydrocodeine-D6	308.2 -> 202...	4.89	85175
Diphenhydramine	256.2 -> 167...	2/26/2019 1:33 PM	6.13	239146	10.00	163.97	256.2 -> 152...	56621	125.46	125.46	125.46	Diphenhydramine-D3	259.2 -> 167...	6.13	11134...
Doxylamine	271.2 -> 182...	2/26/2019 1:33 PM	5.72	162378	10.00	100.61	271.2 -> 167...	1288...	355.78	355.78	355.78	Doxylamine-D5	276.2 -> 187...	5.69	883174
EDDP	279.2 -> 235...	2/26/2019 1:33 PM	6.08	111985	10.00	184.16...	279.2 -> 250...	34090	4954...	4954...	4954...	EDDP-D3	282.2 -> 235...	6.06	608504
Fentanyl	337.2 -> 105...	2/26/2019 1:33 PM	6.56	21129	10.00	15.35	337.2 -> 188...	15171	46.20	46.20	46.20	Fentanyl-D5	342.3 -> 105...	6.54	11204...
Fluoxetine	310.1 -> 44.3	2/26/2019 1:33 PM	6.34	202445	10.00	976.70	310.1 -> 148...	7259	141.66	141.66	141.66	Fluoxetine-D6	316.2 -> 44.3	6.34	979670
Hydrocodone	300.2 -> 198...	2/26/2019 1:33 PM	5.45	24371	10.00	13.45	300.2 -> 128...	7423	104.10	104.10	104.10	Hydrocodone-D6	306.2 -> 202...	5.38	141235
Hydromorphone	286.2 -> 184...	2/26/2019 1:33 PM	4.74	16351	10.00	286.2 -> 157...	286.2 -> 157...	10410	18.43	18.43	18.43	Hydromorphone-D6	292.2 -> 185...	4.68	43346
Ketamine	238.1 -> 125...	2/26/2019 1:33 PM	6.09	85733	10.00	660.81	238.1 -> 220...	27507	6.07	6.07	6.07	Ketamine-D4	242.1 -> 129...	6.07	325381
Lorazepam	321.0 -> 303...	2/26/2019 1:33 PM	6.32	6022	10.00	321.0 -> 229...	321.0 -> 229...	1806	6.07	6.07	6.07	Lorazepam-D4	320.1 -> 217...	6.34	17265
Meprobamate	219.1 -> 158...	2/26/2019 1:33 PM	5.62	20203	10.00	98.59	219.1 -> 97.1	19472	103.39	103.39	103.39	Meprobamate-D7	226.2 -> 165...	5.62	113458
Methadone	310.2 -> 265...	2/26/2019 1:33 PM	6.38	142833	10.00	130.61	310.2 -> 105...	1367...	117.10	117.10	117.10	Methadone-D9	319.3 -> 268...	6.38	810620
Methamphetamine	150.1 -> 91.1	2/26/2019 1:33 PM	5.03	147640	10.00	150.1 -> 119...	150.1 -> 119...	55300	51.74	51.74	51.74	Methamphetamine-D11	161.2 -> 97.1	4.99	485461
Metoprolol	268.2 -> 116...	2/26/2019 1:33 PM	5.51	21102	10.00	148.07	268.2 -> 56.3	19908	371.54	371.54	371.54	Noroxycodone-D3	305.2 -> 287...	4.98	84237
Mirtazapine	266.2 -> 195...	2/26/2019 1:33 PM	6.51	145559	10.00	41471...	266.2 -> 72.3	93222	371.54	371.54	371.54	Tramadol-13C-D3	268.2 -> 58.3	5.51	826793
Mitragynine	399.2 -> 238...	2/26/2019 1:33 PM	6.56	23421	10.00	4230.81	399.2 -> 174...	52412	6.84	6.84	6.84	Tramadol-13C-D3	268.2 -> 58.3	5.51	826793
Morphine	286.2 -> 201...	2/26/2019 1:33 PM	4.48	33431	10.00	51.41	286.2 -> 165...	2992	6.84	6.84	6.84	Morphine-D6	292.2 -> 152...	4.42	3609
Norbuprenorphine	414.3 -> 101...	2/26/2019 1:33 PM	6.01	4630	10.00	176.41	414.3 -> 57.3	5198	12.47	12.47	12.47	Norbuprenorphine-D3	417.3 -> 101...	5.99	26782
Nordiazepam	271.1 -> 140...	2/26/2019 1:33 PM	6.57	13845	10.00	59.44	271.1 -> 208...	7955	6090...	6090...	6090...	Nordiazepam-D5	276.1 -> 140...	6.57	39033
Norfentanyl	233.2 -> 84.2	2/26/2019 1:33 PM	5.37	117686	10.00	3733.06	233.2 -> 55.3	35812	74.52	74.52	74.52	Norfentanyl-D5	238.2 -> 84.2	5.35	499497
Norhydrocodone	286.2 -> 199...	2/26/2019 1:33 PM	5.06	1716	10.00	6.10	286.2 -> 171...	637	18.36	18.36	18.36	Norhydrocodone-D3	289.2 -> 202...	5.04	47450
Noroxycodone	302.1 -> 284...	2/26/2019 1:33 PM	4.98	17990	10.00	20.34	302.1 -> 186...	5883	25.51	25.51	25.51	Noroxycodone-D3	305.2 -> 287...	4.98	84237
O-desmethyl-tramadol	250.2 -> 58.3	2/26/2019 1:33 PM	4.97	145060	10.00	160.07	250.2 -> 42.3	7539	31.69	31.69	31.69	O-desmethyl-tramadol...	256.2 -> 64.3	4.95	659507
Oxazepam	287.1 -> 240...	2/26/2019 1:33 PM	6.41	9142	10.00	15.49	287.1 -> 268...	5232	102.29	102.29	102.29	Oxazepam-D5	292.1 -> 246...	6.38	40621
Oxycodone	316.2 -> 298...	2/26/2019 1:33 PM	5.18	38800	10.00	65.72	316.2 -> 241...	11366	102.29	102.29	102.29	Oxycodone-D6	322.2 -> 304...	5.12	185273
Oxymorphone	302.1 -> 284...	2/26/2019 1:33 PM	4.45	30911	10.00	32.83	302.1 -> 227...	8091	360.33	360.33	360.33	Oxymorphone-D3	305.2 -> 287...	4.41	148154

Compound Method		p1 cal		p1 cal		Qualifier 1 M...		Qualifier 1 Results		ISTD Method		ISTD Results			
Name	Transition	Acq. Date-Time	RT	Resp.	M	Calc. Conc.	S/N	Transition	M	Area	S/N	Name	Transition	RT	Resp.
Phentermine	150.1 -> 65.2	2/26/2019 1:33 PM	5.17	30718	<input type="checkbox"/>	10.00	9.95	150.1 -> 133...	<input checked="" type="checkbox"/>	734	...	Phentermine-D5	155.2 -> 96.2	5.15	427402
Promethazine	285.1 -> 86.2	2/26/2019 1:33 PM	6.67	317039	<input type="checkbox"/>	10.00	109.54	285.1 -> 71.3	<input type="checkbox"/>	69581	96.48	Promethazine-D3	288.2 -> 89.2	6.65	17060...
Quetiapine	384.2 -> 253...	2/26/2019 1:33 PM	6.72	214205	<input type="checkbox"/>	10.00	1678.46	384.2 -> 221...	<input type="checkbox"/>	1168...	267.85	Quetiapine-D8	392.2 -> 226...	6.70	324270
Sertraline	306.1 -> 158...	2/26/2019 1:33 PM	6.69	43026	<input type="checkbox"/>	10.00	88.81	306.1 -> 275...	<input type="checkbox"/>	40729	7863...	Sertraline-D3	309.1 -> 275...	6.67	208332
Temazepam	301.1 -> 255...	2/26/2019 1:33 PM	6.55	50174	<input type="checkbox"/>	10.00	143.04	301.1 -> 283...	<input type="checkbox"/>	20173	19.19	Temazepam-D5	306.1 -> 260...	6.53	247632
Tamadol	264.2 -> 58.3	2/26/2019 1:33 PM	5.51	166058	<input type="checkbox"/>	10.00	168.77	264.2 -> 43.3	<input type="checkbox"/>	7840	12.20	Tamadol-13C-D3	268.2 -> 58.3	5.51	826793
Trazodone	372.2 -> 176...	2/26/2019 1:33 PM	6.90	180957	<input type="checkbox"/>	10.00	185.96	372.2 -> 148...	<input type="checkbox"/>	1294...	1021...	Trazodone-D6	378.2 -> 182...	6.88	814562
Venlafaxine	278.2 -> 58.3	2/26/2019 1:33 PM	5.86	169694	<input type="checkbox"/>	10.00	142.65	278.2 -> 260...	<input type="checkbox"/>	32793	58.29	Venlafaxine-D6	284.2 -> 64.3	5.86	778710
Zolpidem	308.2 -> 235...	2/26/2019 1:33 PM	6.42	162038	<input type="checkbox"/>	10.00	2652.10	308.2 -> 263...	<input type="checkbox"/>	55734	143.80	Zolpidem-D6	314.2 -> 235...	6.40	852735

Compound Method		p1 negative			p1 negative			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 211...	2/26/2019 1:52 PM						328.2 -> 165...				6-MAM-D6	334.2 -> 165...	5.24	35084			
7-aminoclonazepam	286.1 -> 121...	2/26/2019 1:52 PM						286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.53	90927			
a-hydroxyalprazolam	325.1 -> 297...	2/26/2019 1:52 PM						325.1 -> 215...				a-hydroxyalprazolam-D5	330.1 -> 302...	6.38	26699			
alpha-PVP	232.2 -> 91.0	2/26/2019 1:52 PM						232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.76	486916			
Alprazolam	309.1 -> 281...	2/26/2019 1:52 PM						309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.46	142737			
Amphetamine	136.1 -> 91.1	2/26/2019 1:52 PM						136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.81	190399			
Benzylecgonine	290.1 -> 168...	2/26/2019 1:52 PM						290.1 -> 105...				Benzylecgonine-D8	298.2 -> 171...	5.32	48947			
Buprenorphine	468.3 -> 55.1	2/26/2019 1:52 PM	7.24	3722		0.90	45.40	468.3 -> 101...				Buprenorphine -D4	472.3 -> 59.3	7.30	195451			
Bupropion	240.1 -> 184...	2/26/2019 1:52 PM						240.1 -> 131...				Bupropion-D9	249.2 -> 185...	6.07	480276			
Carisoprodol	261.2 -> 176...	2/26/2019 1:52 PM						261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6.11	303522			
Citalopram	325.2 -> 109...	2/26/2019 1:52 PM						325.2 -> 262...				Citalopram-D6	331.2 -> 109...	6.15	611717			
Clonazepam	316.1 -> 269...	2/26/2019 1:52 PM						316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.34	14531			
Cocaine	304.2 -> 182...	2/26/2019 1:52 PM						304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.75	427368			
Codeine	300.2 -> 215...	2/26/2019 1:52 PM						300.2 -> 165...				Codeine-D6	306.2 -> 218...	5.16	27276			
Cyclobenzaprine	276.2 -> 214...	2/26/2019 1:52 PM						276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.49	371672			
Dextromethorphan	272.2 -> 171...	2/26/2019 1:52 PM						272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.19	165867			
Dextropropfan	258.2 -> 157...	2/26/2019 1:52 PM						258.2 -> 133...				Dextropropfan-D3	261.2 -> 157...	5.49	151695			
Diazepam	285.1 -> 193...	2/26/2019 1:52 PM						285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.69	98928			
Dihydrocodeine	302.2 -> 198...	2/26/2019 1:52 PM						302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	4.89	78942			
Diphenhydramine	256.2 -> 167...	2/26/2019 1:52 PM						256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	6.13	11342...			
Doxylamine	271.2 -> 182...	2/26/2019 1:52 PM						271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.69	791792			
EDDP	279.2 -> 235...	2/26/2019 1:52 PM						279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.06	574344			
Fentanyl	337.2 -> 105...	2/26/2019 1:52 PM						337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6.54	10769...			
Fluoxetine	310.1 -> 44.3	2/26/2019 1:52 PM						310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.34	931831			
Hydrocodone	300.2 -> 198...	2/26/2019 1:52 PM						300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.38	134590			
Hydromorphone	286.2 -> 184...	2/26/2019 1:52 PM						286.2 -> 157...				Hydromorphone-D6	292.2 -> 185...	4.68	47647			
Ketamine	238.1 -> 125...	2/26/2019 1:52 PM						238.1 -> 220...				Ketamine-D4	242.1 -> 129...	6.07	317060			
Lorazepam	321.0 -> 303...	2/26/2019 1:52 PM						321.0 -> 229...				Lorazepam-D4	320.1 -> 217...	6.34	14531			
Meprobamate	219.1 -> 158...	2/26/2019 1:52 PM						219.1 -> 97.1				Meprobamate-D7	226.2 -> 165...	5.62	114270			
Methadone	310.2 -> 265...	2/26/2019 1:52 PM						310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.36	771308			
Methamphetamine	150.1 -> 91.1	2/26/2019 1:52 PM	5.03	40043		2.40	14.39	150.1 -> 119...		13161	*	Methamphetamine-D11	161.2 -> 97.1	4.99	547944			
Metoprolol	268.2 -> 116...	2/26/2019 1:52 PM						268.2 -> 56.3				Noroxycodone-D3	305.2 -> 287...	4.96	83310			
Mirtazapine	266.2 -> 195...	2/26/2019 1:52 PM						266.2 -> 72.3				Tramadol-13C-D3	268.2 -> 58.3	5.51	779505			
Mitragynine	399.2 -> 238...	2/26/2019 1:52 PM						399.2 -> 174...				Tramadol-13C-D3	268.2 -> 58.3	5.51	779505			
Morphine	286.2 -> 201...	2/26/2019 1:52 PM						286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.42	2862			
Norbuprenorphine	414.3 -> 101...	2/26/2019 1:52 PM						414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	5.99	22097			
Nordiazepam	271.1 -> 140...	2/26/2019 1:52 PM						271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.55	37855			
Norfentanyl	233.2 -> 84.2	2/26/2019 1:52 PM						233.2 -> 55.3				Norfentanyl-D5	238.2 -> 84.2	5.35	502793			
Norhydrocodone	286.2 -> 199...	2/26/2019 1:52 PM						286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5.04	47985			
Noroxycodone	302.1 -> 284...	2/26/2019 1:52 PM						302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	4.96	83310			
O-desmethyl-tramadol	250.2 -> 58.3	2/26/2019 1:52 PM						250.2 -> 42.3				O-desmethyl-tramadol...	256.2 -> 64.3	4.95	619333			
Oxazepam	287.1 -> 240...	2/26/2019 1:52 PM						287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.38	42668			
Oxycodone	316.2 -> 298...	2/26/2019 1:52 PM						316.2 -> 241...				Oxycodone-D6	322.2 -> 304...	5.12	175776			
Oxymorphone	302.1 -> 284...	2/26/2019 1:52 PM						302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.41	137642			

Compound Method		p1 negative			p1 negative			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.		
Phentermine	150.1 -> 65.2	2/26/2019 1:52 PM			<input type="checkbox"/>			150.1 -> 133...	<input type="checkbox"/>			Phentermine-D5	155.2 -> 96.2	5.15	466130		
Promethazine	285.1 -> 86.2	2/26/2019 1:52 PM			<input type="checkbox"/>			285.1 -> 71.3	<input type="checkbox"/>			Promethazine-D3	288.2 -> 89.2	6.63	16224...		
Quetiapine	384.2 -> 253...	2/26/2019 1:52 PM			<input type="checkbox"/>			384.2 -> 221...	<input type="checkbox"/>			Quetiapine-D8	392.2 -> 226...	6.68	300062		
Sertraline	306.1 -> 158...	2/26/2019 1:52 PM			<input type="checkbox"/>			306.1 -> 275...	<input type="checkbox"/>			Sertraline-D3	309.1 -> 275...	6.67	180085		
Temazepam	301.1 -> 255...	2/26/2019 1:52 PM			<input type="checkbox"/>			301.1 -> 283...	<input type="checkbox"/>			Temazepam-D5	306.1 -> 260...	6.53	260456		
Tramadol	264.2 -> 58.3	2/26/2019 1:52 PM			<input type="checkbox"/>			264.2 -> 43.3	<input type="checkbox"/>			Tramadol-13C-D3	268.2 -> 58.3	5.51	779505		
Trazodone	372.2 -> 176...	2/26/2019 1:52 PM			<input type="checkbox"/>			372.2 -> 148...	<input type="checkbox"/>			Trazodone-D6	378.2 -> 182...	6.88	781516		
Venlafaxine	278.2 -> 58.3	2/26/2019 1:52 PM			<input type="checkbox"/>			278.2 -> 260...	<input type="checkbox"/>			Venlafaxine-D6	284.2 -> 64.3	5.86	730235		
Zolpidem	308.2 -> 235...	2/26/2019 1:52 PM			<input type="checkbox"/>			308.2 -> 263...	<input type="checkbox"/>			Zolpidem-D6	314.2 -> 235...	6.40	819832		

Compound Method		p1 external control		p1 external control		Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 211...	2/26/2019 2:12 PM						328.2 -> 165...				6-MAM-D6	334.2 -> 165...	5.24	30548
7-Aminoclonazepam	286.1 -> 121...	2/26/2019 2:12 PM						286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.53	78200
a-hydroxyalprazolam	325.1 -> 297...	2/26/2019 2:12 PM						325.1 -> 215...				a-hydroxyalprazolam-D5	330.1 -> 302...	6.38	26311
alpha-PVP	232.2 -> 91.0	2/26/2019 2:12 PM						232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.76	422798
Alprazolam	309.1 -> 281...	2/26/2019 2:12 PM						309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.46	131500
Amphetamine	136.1 -> 91.1	2/26/2019 2:12 PM						136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.83	186982
Benzylecgonine	290.1 -> 168...	2/26/2019 2:12 PM						290.1 -> 105...				Benzylecgonine-D8	298.2 -> 171...	5.32	43204
Buprenorphine	468.3 -> 55.1	2/26/2019 2:12 PM	7.26		3605	0.87	46.76	468.3 -> 101...				Buprenorphine-D4	472.3 -> 59.3	7.30	196658
Bupropion	240.1 -> 184...	2/26/2019 2:12 PM						240.1 -> 131...				Bupropion-D9	249.2 -> 185...	6.07	432981
Carisoprodol	261.2 -> 176...	2/26/2019 2:12 PM						261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6.13	294324
Citalopram	325.2 -> 109...	2/26/2019 2:12 PM						325.2 -> 262...				Citalopram-D6	331.2 -> 109...	6.15	596929
Clonazepam	316.1 -> 269...	2/26/2019 2:12 PM						316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.34	16691
Cocaine	304.2 -> 182...	2/26/2019 2:12 PM						304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.75	409052
Codeine	300.2 -> 215...	2/26/2019 2:12 PM						300.2 -> 165...				Codeine-D6	306.2 -> 218...	5.16	23428
Cyclobenzaprine	276.2 -> 214...	2/26/2019 2:12 PM						276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.49	358090
Dextromethorphan	272.2 -> 171...	2/26/2019 2:12 PM						272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.19	156285
Dextrophan	258.2 -> 157...	2/26/2019 2:12 PM						258.2 -> 133...				Dextrophan-D3	261.2 -> 157...	5.49	158061
Diazepam	285.1 -> 193...	2/26/2019 2:12 PM						285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.69	97692
Dihydrocodeine	302.2 -> 198...	2/26/2019 2:12 PM						302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	4.89	79786
Diphenhydramine	256.2 -> 167...	2/26/2019 2:12 PM						256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	6.13	10393...
Doxylamine	271.2 -> 182...	2/26/2019 2:12 PM						271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.72	705387
EDDP	279.2 -> 235...	2/26/2019 2:12 PM						279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.06	537095
Fentanyl	337.2 -> 105...	2/26/2019 2:12 PM						337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6.54	10297...
Fluoxetine	310.1 -> 44.3	2/26/2019 2:12 PM						310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.34	904465
Hydrocodone	300.2 -> 198...	2/26/2019 2:12 PM	5.45		195834	90.01	504.43	300.2 -> 128...		92805		Hydrocodone-D6	306.2 -> 202...	5.38	126082
Hydromorphone	286.2 -> 184...	2/26/2019 2:12 PM	4.74		120396	84.30		286.2 -> 157...		82876		Hydromorphone-D6	292.2 -> 185...	4.68	37861
Ketamine	238.1 -> 125...	2/26/2019 2:12 PM						238.1 -> 220...				Ketamine-D4	242.1 -> 129...	6.09	288918
Lorazepam	321.0 -> 303...	2/26/2019 2:12 PM						321.0 -> 229...				Clonazepam-D4	320.1 -> 217...	6.34	16691
Meprobamate	219.1 -> 158...	2/26/2019 2:12 PM						219.1 -> 97.1				Meprobamate-D7	226.2 -> 165...	5.62	99358
Methadone	310.2 -> 265...	2/26/2019 2:12 PM						310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.38	737583
Methamphetamine	150.1 -> 91.1	2/26/2019 2:12 PM	5.03		57989	3.54		150.1 -> 119...		20332		Methamphetamine-D11	161.2 -> 97.1	4.99	538896
Metoprolol	268.2 -> 116...	2/26/2019 2:12 PM						268.2 -> 56.3				Noroxycodone-D3	305.2 -> 287...	4.96	77582
Mirtazapine	266.2 -> 195...	2/26/2019 2:12 PM						266.2 -> 72.3				Tramadol-13C-D3	268.2 -> 58.3	5.51	749100
Mirtazapine	399.2 -> 238...	2/26/2019 2:12 PM						399.2 -> 174...				Tramadol-13C-D3	268.2 -> 58.3	5.51	749100
Morphine	286.2 -> 201...	2/26/2019 2:12 PM						286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.42	2621
Norbuprenorphine	414.3 -> 101...	2/26/2019 2:12 PM						414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	5.99	22895
Nordiazepam	271.1 -> 140...	2/26/2019 2:12 PM						271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.55	36474
Nortentanyl	233.2 -> 84.2	2/26/2019 2:12 PM						233.2 -> 55.3				Nortentanyl-D5	238.2 -> 84.2	5.37	481290
Nortoxicodone	286.2 -> 199...	2/26/2019 2:12 PM						286.2 -> 171...				Nortoxicodone-D3	289.2 -> 202...	5.04	46142
Noroxycodone	302.1 -> 284...	2/26/2019 2:12 PM						302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	4.96	77582
O-desmethyl-tramadol	250.2 -> 58.3	2/26/2019 2:12 PM						250.2 -> 42.3				O-desmethyl-tramadol-...	256.2 -> 64.3	4.97	600789
Oxazepam	287.1 -> 240...	2/26/2019 2:12 PM						287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.38	38967
Oxycodone	316.2 -> 298...	2/26/2019 2:12 PM						316.2 -> 241...				Oxycodone-D6	322.2 -> 304...	5.14	160462
Oxymorphone	302.1 -> 284...	2/26/2019 2:12 PM						302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.43	116906

Compound Method		p1 external control			p1 external control			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.		
Phentermine	150.1 -> 65.2	2/26/2019 2:12 PM			<input type="checkbox"/>			150.1 -> 133...	<input type="checkbox"/>			Phentermine-D5	155.2 -> 96.2	5.15	463938		
Promethazine	285.1 -> 86.2	2/26/2019 2:12 PM			<input type="checkbox"/>			285.1 -> 71.3	<input type="checkbox"/>			Promethazine-D3	288.2 -> 89.2	6.65	15769...		
Quetiapine	384.2 -> 253...	2/26/2019 2:12 PM			<input type="checkbox"/>			384.2 -> 221...	<input type="checkbox"/>			Quetiapine-D8	392.2 -> 226...	6.70	274444		
Sertraline	306.1 -> 158...	2/26/2019 2:12 PM	6.67	335221	<input type="checkbox"/>	100.05	2254.21	306.1 -> 275...	<input type="checkbox"/>	3237...	∞	Sertraline-D3	309.1 -> 275...	6.67	162231		
Temazepam	301.1 -> 255...	2/26/2019 2:12 PM			<input type="checkbox"/>			301.1 -> 283...	<input type="checkbox"/>			Temazepam-D5	306.1 -> 260...	6.53	233061		
Tramadol	264.2 -> 58.3	2/26/2019 2:12 PM			<input type="checkbox"/>			264.2 -> 43.3	<input type="checkbox"/>			Tramadol-13C-D3	268.2 -> 58.3	5.51	749100		
Trazodone	372.2 -> 176...	2/26/2019 2:12 PM			<input type="checkbox"/>			372.2 -> 148...	<input type="checkbox"/>			Trazodone-D6	378.2 -> 182...	6.88	747016		
Venlafaxine	278.2 -> 58.3	2/26/2019 2:12 PM			<input type="checkbox"/>			278.2 -> 260...	<input type="checkbox"/>			Venlafaxine-D6	284.2 -> 64.3	5.86	684306		
Zolpidem	308.2 -> 235...	2/26/2019 2:12 PM			<input type="checkbox"/>			308.2 -> 263...	<input type="checkbox"/>			Zolpidem-D6	314.2 -> 235...	6.40	781680		

Name	Transition	Acq. Date-Time	RT	p2 cal		Qualifier 1 M...	Qualifier 1 Results		ISTD Method	ISTD Results			
				Resp.	MI		Calc. Conc.	S/N		Area	S/N	Name	Transition
7-Aminoflunitrazepam	284.1 -> 135...	2/26/2019 1:43 PM	5.74	35201	10.00	19246	284.1 -> 93.2	11333	5437	7-aminoflunitrazepam...	291.2 -> 138...	5.72	173548
Acetylferantyl	323.2 -> 188...	2/26/2019 1:43 PM	6.35	15152	10.00	43.58	323.2 -> 105...	23718		Acetylferantyl-D5	328.2 -> 105...	6.35	12269...
Acetylferantyl	219.1 -> 84.2	2/26/2019 1:43 PM	4.90	7451	10.00	4210.52	219.1 -> 56.3	1935	44.47	Acetylferantyl-D5	224.2 -> 84.2	4.89	372916
alpha-hydroxymidazo...	342.1 -> 324...	2/26/2019 1:43 PM	6.47	35854	10.00	277.85	342.1 -> 203...	22751	215.53	alpha-hydroxymidazo...	346.1 -> 328...	6.47	269059
Amitriptyline	278.2 -> 91.2	2/26/2019 1:43 PM	6.62	135028	10.00		278.2 -> 105...	66990		Amitriptyline-D3	281.2 -> 91.2	6.60	367208
Carbamazepine	237.1 -> 193...	2/26/2019 1:43 PM	6.14	19334	10.00	4681.82	237.1 -> 194...	1912...	162.30	Carbamazepine-13C6	243.1 -> 200...	6.14	997787
Chlordiazepoxide	300.1 -> 227...	2/26/2019 1:43 PM	6.61	18262	10.00	146.23	300.1 -> 282...	13569	37.37	Chlordiazepoxide-D5	305.1 -> 286...	6.59	175303
Chlorpheniramine	275.2 -> 230...	2/26/2019 1:43 PM	6.05	208823	10.00	1555.49	275.2 -> 167...	1652	58.80	Meperidine-D4	252.2 -> 224...	5.81	252256
Desipramine	267.2 -> 72.3	2/26/2019 1:43 PM	6.44	176716	10.00		267.2 -> 44.3	88600	280.93	Desipramine-D3	270.2 -> 75.3	6.44	914246
Doxepin	280.2 -> 107...	2/26/2019 1:43 PM	6.35	93223	10.00		280.2 -> 77.2	36150		Doxepin-D3	283.2 -> 107...	6.33	553591
Estazolam	295.1 -> 267...	2/26/2019 1:43 PM	6.41	43665	10.00	14792...	295.1 -> 205...	36755	616.70	Estazolam-D5	300.1 -> 272...	6.39	215119
Etizolam	343.3 -> 314...	2/26/2019 1:43 PM	6.49	11738	10.00	161.59	343.3 -> 259...	3183	109.01	Meperidine-D4	252.2 -> 224...	5.81	252256
Flunitrazepam	314.1 -> 268...	2/26/2019 1:43 PM	6.45	37531	10.00	1449.65	314.1 -> 239...	14759	62.62	Flunitrazepam-D7	321.1 -> 244...	6.43	8855
Flurazepam	388.2 -> 315...	2/26/2019 1:43 PM	6.54	146468	10.00	3987.8...	388.2 -> 317...	34184	406.60	Zopiclone-D4	393.1 -> 244...	6.42	145324
Imipramine	281.2 -> 86.2	2/26/2019 1:43 PM	6.56	279542	10.00	542.10	281.2 -> 58.3	1488...		Imipramine-D3	284.2 -> 61.3	6.53	735460
Lamotrigine	256.0 -> 211...	2/26/2019 1:43 PM	5.62	5010	10.00	213.66	256.0 -> 108...	4831	41.46	Meperidine-D4	252.2 -> 224...	5.81	252256
Levamisole	205.1 -> 91.2	2/26/2019 1:43 PM	5.35	49306	10.00	46.13	205.1 -> 178...	45096	62.46	Sufentanil-D5	392.2 -> 238...	6.93	11375...
Maprotiline	278.2 -> 91.2	2/26/2019 1:43 PM	6.46	28109	10.00	20.58	278.2 -> 117...	22437	47.52	Amitriptyline-D3	281.2 -> 91.2	6.60	367208
MDA	180.1 -> 163...	2/26/2019 1:43 PM	5.06	54839	10.00	77.78	180.1 -> 105...	32331	56.84	MDA-D5	185.1 -> 168...	5.04	289521
MDEA	208.1 -> 163...	2/26/2019 1:43 PM	5.32	99289	10.00	1070.60	208.1 -> 105...	69617	71.11	MDEA-D6	214.2 -> 166...	5.32	461756
MDMA	194.1 -> 163...	2/26/2019 1:43 PM	5.18	106836	10.00		194.1 -> 105...	66258		MDMA-D6	200.2 -> 166...	5.16	63243
Meperidine	248.2 -> 220...	2/26/2019 1:43 PM	5.81	59674	10.00	144.53	248.2 -> 174...	31348	7263...	Meperidine-D4	252.2 -> 224...	5.81	252256
Methocarbamol	242.0 -> 199...	2/26/2019 1:43 PM	5.54	3788	10.54	93.07	242.0 -> 163...	3389	35.06	Meperidine-D4	252.2 -> 224...	5.81	252256
Methylphenidate	234.2 -> 84.2	2/26/2019 1:43 PM	5.65	248762	10.00		234.2 -> 56.3	55743		Meperidine-D4	252.2 -> 224...	5.81	252256
Midazolam	326.1 -> 223...	2/26/2019 1:43 PM	6.63	17958	10.00	141.26	326.1 -> 249...	17889	142.99	Midazolam-D4	330.1 -> 295...	6.63	271102
Normeperidine	234.1 -> 42.3	2/26/2019 1:43 PM	5.67	57524	10.00	166.12	234.1 -> 160...	47570	402.50	Normeperidine-D4	238.2 -> 164...	5.67	194744
Nortriptyline	264.2 -> 91.2	2/26/2019 1:43 PM	6.48	58610	10.00		264.2 -> 233...	48098	156.02	Nortriptyline-D3	267.2 -> 233...	6.48	216324
Olanzapine	313.2 -> 256...	2/26/2019 1:43 PM	6.23	46430	10.00	620.12	313.2 -> 84.1	33590	21.02	Meperidine-D4	252.2 -> 224...	5.81	252256
Paroxetine	330.4 -> 192...	2/26/2019 1:43 PM	6.47	4375	10.00	161.06	330.4 -> 70.2	17577		Meperidine-D4	252.2 -> 224...	5.81	252256
Phenazepam	349.0 -> 206...	2/26/2019 1:43 PM	6.51	24146	10.00	371.31	349.0 -> 183...	18615	869.96	Phenazepam-D4	353.0 -> 183...	6.51	89085
Phencyclidine	244.2 -> 86.2	2/26/2019 1:43 PM	5.97	158407	10.00	281.20	244.2 -> 91.1	1155...	116.68	Phencyclidine-D5	249.2 -> 86.2	5.95	776080
Phenylethylamine	253.1 -> 104...	2/26/2019 1:43 PM	6.05	20883	10.00	22.39	253.1 -> 182...	1847	19.72	Phenylethylamine-D10	263.2 -> 192...	6.05	12084
Pseudoephedrine	166.1 -> 148...	2/26/2019 1:43 PM	4.64	974508	10.00	1860.14	166.1 -> 133...	1940...		Pseudoephedrine-D3	169.1 -> 151...	4.62	55064...
Sufentanil	387.2 -> 238...	2/26/2019 1:43 PM	6.95	20759	10.00	1697.6...	387.2 -> 111...	18809	29.51	Sufentanil-D5	392.2 -> 238...	6.93	11375...
Tapentadol	222.2 -> 107...	2/26/2019 1:43 PM	5.53	130002	10.00	89.72	222.2 -> 121...	50044	213.11	Tapentadol-D3	225.2 -> 107...	5.51	660800
Zaleplon	306.1 -> 236...	2/26/2019 1:43 PM	6.25	37744	10.00	214.29	306.1 -> 264...	26888	69.20	Zaleplon-D4	310.2 -> 240...	6.23	157018
Zopiclone	389.1 -> 244...	2/26/2019 1:43 PM	6.42	32023	10.00	5426.59	389.1 -> 216...	18630	63.11...	Zopiclone-D4	393.1 -> 244...	6.42	145324

Compound Method			p2 negative			p2 negative			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.	
7-Aminoflunitrazepam	284.1 -> 135..	2/26/2019 2:02 PM						284.1 -> 93.2				7-aminoflunitrazepam...	291.2 -> 138..	5.72	163154					
Acetylfentanyl	323.2 -> 188..	2/26/2019 2:02 PM						323.2 -> 105...				Acetylfentanyl-D5	328.2 -> 105..	6.35	11130...					
Acetylnorfentanyl	219.1 -> 84.2	2/26/2019 2:02 PM						219.1 -> 56.3				Acetylnorfentanyl-D5	224.2 -> 84.2	4.89	362187					
alpha-hydroxymidazo...	342.1 -> 324..	2/26/2019 2:02 PM						342.1 -> 203...				alpha-hydroxymidazo...	346.1 -> 328..	6.47	263257					
Amiripylone	278.2 -> 91.2	2/26/2019 2:02 PM						278.2 -> 105...				Amiripylone-D3	281.2 -> 91.2	6.60	329264					
Carbamazepine	237.1 -> 193...	2/26/2019 2:02 PM						237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.14	944592					
Chlordiazepoxide	300.1 -> 227..	2/26/2019 2:02 PM						300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286..	6.59	164989					
Chlorpheniramine	275.2 -> 230..	2/26/2019 2:02 PM						275.2 -> 167...				Meperidine-D4	252.2 -> 224...	5.81	233888					
Desipramine	267.2 -> 72.3	2/26/2019 2:02 PM						267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.44	893533					
Doxepin	280.2 -> 107..	2/26/2019 2:02 PM						280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.33	515053					
Estazolam	295.1 -> 267..	2/26/2019 2:02 PM						295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.39	196655					
Etizolam	343.3 -> 314..	2/26/2019 2:02 PM						343.3 -> 259...				Meperidine-D4	252.2 -> 224...	5.81	233888					
Flunitrazepam	314.1 -> 268..	2/26/2019 2:02 PM						314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.43	7791					
Flurazepam	388.2 -> 315..	2/26/2019 2:02 PM						388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.42	132591					
Imipramine	281.2 -> 86.2	2/26/2019 2:02 PM						281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.56	692561					
Lamotrigine	256.0 -> 211..	2/26/2019 2:02 PM						256.0 -> 108...				Meperidine-D4	252.2 -> 224...	5.81	233888					
Levamisole	205.1 -> 91.2	2/26/2019 2:02 PM						205.1 -> 178...				Sufentanil-D5	392.2 -> 238..	6.93	10520..					
Maprotiline	278.2 -> 91.2	2/26/2019 2:02 PM						278.2 -> 117...				Amiripylone-D3	281.2 -> 91.2	6.60	329264					
MDA	180.1 -> 163..	2/26/2019 2:02 PM						180.1 -> 105...				MDA-D5	185.1 -> 168..	5.06	287057					
MDEA	208.1 -> 163..	2/26/2019 2:02 PM						208.1 -> 105...				MDEA-D6	214.2 -> 166..	5.32	416167					
MDMA	194.1 -> 163..	2/26/2019 2:02 PM						194.1 -> 105...				MDMA-D6	200.2 -> 166..	5.16	59711					
Meperidine	248.2 -> 220..	2/26/2019 2:02 PM						248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.81	233888					
Methocarbamol	242.0 -> 199..	2/26/2019 2:02 PM						242.0 -> 163...				Meperidine-D4	252.2 -> 224...	5.81	233888					
Methylphenidate	234.2 -> 84.2	2/26/2019 2:02 PM						234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.81	233888					
Midazolam	326.1 -> 223..	2/26/2019 2:02 PM						326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.63	261171					
Normeperidine	234.1 -> 42.3	2/26/2019 2:02 PM						234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.67	198398					
Nortriptyline	264.2 -> 91.2	2/26/2019 2:02 PM						264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.48	227595					
Olanzapine	313.2 -> 256..	2/26/2019 2:02 PM						313.2 -> 84.1				Meperidine-D4	252.2 -> 224...	5.81	233888					
Peroxetine	330.4 -> 192..	2/26/2019 2:02 PM						330.4 -> 70.2				Meperidine-D4	252.2 -> 224...	5.81	233888					
Phenazepam	349.0 -> 206..	2/26/2019 2:02 PM						349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.51	85658					
Phencyclidine	244.2 -> 86.2	2/26/2019 2:02 PM						244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.95	754744					
Phenylethylamine	253.1 -> 104..	2/26/2019 2:02 PM	6.05	304		1.68	1.06	253.1 -> 182...				Phenylethylamine-D10	263.2 -> 192...	6.03	10502					
Pseudoephedrine	166.1 -> 148..	2/26/2019 2:02 PM						166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.62	55165...					
Sufentanil	387.2 -> 238..	2/26/2019 2:02 PM						387.2 -> 111...				Sufentanil-D5	392.2 -> 238...	6.93	10520...					
Tapentadol	222.2 -> 107..	2/26/2019 2:02 PM						222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.51	620495					
Zaleplon	306.1 -> 236..	2/26/2019 2:02 PM						306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.25	139562					
Zopiclone	389.1 -> 244..	2/26/2019 2:02 PM						389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.42	132591					

Compound Method		p2 external control		p2 external control			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results			
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.
7-Aminoflunitrazepam	284.1 -> 135...	2/27/2019 7:54 AM						284.1 -> 93.2				7-Aminoflunitrazepam...	291.2 -> 138.	5.72	91570				
Acetylfentanyl	323.2 -> 188...	2/27/2019 7:54 AM						323.2 -> 105...				Acetylfentanyl-D5	328.2 -> 105...	6.35	760706				
Acetylornofentanyl	219.1 -> 84.2	2/27/2019 7:54 AM						219.1 -> 56.3				Acetylornofentanyl-D5	224.2 -> 84.2	4.89	225842				
alpha-hydroxymidazo...	342.1 -> 324...	2/27/2019 7:54 AM						342.1 -> 203...				alpha-hydroxymidazo...	346.1 -> 328.	6.45	199843				
Amiripylone	278.2 -> 91.2	2/27/2019 7:54 AM						278.2 -> 105...				Amiripylone-D3	281.2 -> 91.2	6.64	191739				
Carbamazepine	237.1 -> 193...	2/27/2019 7:54 AM						237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200.	6.14	669664				
Chlordiazepoxide	300.1 -> 227...	2/27/2019 7:54 AM						300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...	6.59	121062				
Chlorpheniramine	275.2 -> 230...	2/27/2019 7:54 AM						275.2 -> 167...				Meperidine-D4	252.2 -> 224...	5.83	143907				
Desipramine	267.2 -> 72.3	2/27/2019 7:54 AM						267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.46	537356				
Doxepin	280.2 -> 107...	2/27/2019 7:54 AM						280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.35	267929				
Estazolam	295.1 -> 267...	2/27/2019 7:54 AM						295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.39	140772				
Etizolam	343.3 -> 314...	2/27/2019 7:54 AM						343.3 -> 259...				Meperidine-D4	252.2 -> 224...	5.83	143907				
Flunitrazepam	314.1 -> 268...	2/27/2019 7:54 AM						314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245.	6.43	581				
Flurazepam	388.2 -> 315...	2/27/2019 7:54 AM						388.2 -> 317...				Zopiclone-D4	393.1 -> 244.	6.42	75039				
Imipramine	281.2 -> 86.2	2/27/2019 7:54 AM						281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.56	431789				
Lamotrigine	256.0 -> 211...	2/27/2019 7:54 AM						256.0 -> 108...				Meperidine-D4	252.2 -> 224...	5.83	143907				
Levamisole	205.1 -> 91.2	2/27/2019 7:54 AM						205.1 -> 178...				Sulfentanil-D5	392.2 -> 238.	6.93	604460				
Maprotiline	278.2 -> 91.2	2/27/2019 7:54 AM						278.2 -> 117...				Amiripylone-D3	281.2 -> 91.2	6.64	191739				
MDA	180.1 -> 163...	2/27/2019 7:54 AM						180.1 -> 105...				MDA-D5	185.1 -> 168.	5.06	183836				
MDEA	208.1 -> 163...	2/27/2019 7:54 AM						208.1 -> 105...				MDEA-D6	214.2 -> 166.	5.34	270745				
MDMA	194.1 -> 163...	2/27/2019 7:54 AM						194.1 -> 105...				MDMA-D6	200.2 -> 166.	5.18	39403				
Meperidine	248.2 -> 220...	2/27/2019 7:54 AM						248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.83	143907				
Methocarbamol	242.0 -> 199...	2/27/2019 7:54 AM						242.0 -> 163...				Meperidine-D4	252.2 -> 224...	5.83	143907				
Methylphenidate	234.2 -> 84.2	2/27/2019 7:54 AM						234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.83	143907				
Midazolam	326.1 -> 223...	2/27/2019 7:54 AM						326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.61	171576				
Normeperidine	234.1 -> 42.3	2/27/2019 7:54 AM						234.1 -> 160...				Normeperidine-D4	238.2 -> 164.	5.67	93408				
Nortriptyline	264.2 -> 91.2	2/27/2019 7:54 AM	6.50	332407		89.49		264.2 -> 233...		2551...	1922...	Nortriptyline-D3	267.2 -> 233...	6.50	137095				
Olanzapine	313.2 -> 256...	2/27/2019 7:54 AM						313.2 -> 84.1				Meperidine-D4	252.2 -> 224...	5.83	143907				
Paroxetine	330.4 -> 192...	2/27/2019 7:54 AM						330.4 -> 70.2				Meperidine-D4	252.2 -> 224...	5.83	143907				
Phenazepam	349.0 -> 206...	2/27/2019 7:54 AM						349.0 -> 183...				Phenazepam-D4	353.0 -> 183.	6.51	60965				
Phencyclidine	244.2 -> 86.2	2/27/2019 7:54 AM						244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.97	393744				
Phenylethylamine	253.1 -> 104...	2/27/2019 7:54 AM						253.1 -> 182...				Phenylethylamine-D10	263.2 -> 192.	6.05	8604				
Pseudoephedrine	166.1 -> 148...	2/27/2019 7:54 AM						166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.64	33248...				
Sulfentanil	387.2 -> 238...	2/27/2019 7:54 AM						387.2 -> 111...				Sulfentanil-D5	392.2 -> 238...	6.93	604460				
Tapentadol	222.2 -> 107...	2/27/2019 7:54 AM						222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.53	411319				
Zaleplon	306.1 -> 236...	2/27/2019 7:54 AM						306.1 -> 264...				Zaleplon-D4	310.2 -> 240.	6.23	94455				
Zopiclone	389.1 -> 244...	2/27/2019 7:54 AM						389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.42	75039				

Compound Method		p2 external control		p2 external control			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	MI	Calc. Conc.	S/N	Transition	MI	Area	S/N	Name	Transition	RT	Resp.			
7-Aminoflunitrazepam	284.1 -> 135...	2/26/2019 2:22 PM						284.1 -> 93.2				7-aminoflunitrazepam...	291.2 -> 138...	5.72	135154			
Acetylfentanyl	323.2 -> 188...	2/26/2019 2:22 PM						323.2 -> 105...				Acetylfentanyl-D5	328.2 -> 105...	6.35	10876...			
Acetylfentanyl	219.1 -> 84.2	2/26/2019 2:22 PM						219.1 -> 56.3				Acetylfentanyl-D5	224.2 -> 84.2	4.89	350176			
alpha-hydroxymidazo...	342.1 -> 324...	2/26/2019 2:22 PM						342.1 -> 203...				alpha-hydroxymidazo...	346.1 -> 328...	6.47	240397			
Amiripylone	278.2 -> 91.2	2/26/2019 2:22 PM						278.2 -> 105...				Amiripylone-D3	281.2 -> 91.2					
Carbamazepine	237.1 -> 193...	2/26/2019 2:22 PM						237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.14	918129			
Chlordiazepoxide	300.1 -> 227...	2/26/2019 2:22 PM						300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...					
Chlorpheniramine	275.2 -> 230...	2/26/2019 2:22 PM						275.2 -> 167...				Meperidine-D4	252.2 -> 224...	5.81	224138			
Desipramine	267.2 -> 72.3	2/26/2019 2:22 PM						267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.44	762263			
Doxepin	280.2 -> 107...	2/26/2019 2:22 PM						280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.33	476401			
Estazolam	295.1 -> 267...	2/26/2019 2:22 PM						295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.39	194104			
Etizolam	343.3 -> 314...	2/26/2019 2:22 PM						343.3 -> 259...				Meperidine-D4	252.2 -> 224...	5.81	224138			
Flunitrazepam	314.1 -> 268...	2/26/2019 2:22 PM						314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.43	7486			
Flurazepam	388.2 -> 315...	2/26/2019 2:22 PM						388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.42	113293			
Imipramine	281.2 -> 86.2	2/26/2019 2:22 PM						281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.35	9580			
Lamotrigine	256.0 -> 211...	2/26/2019 2:22 PM						256.0 -> 108...				Meperidine-D4	252.2 -> 224...	5.81	224138			
Levamisole	205.1 -> 91.2	2/26/2019 2:22 PM						205.1 -> 178...				Sufentanil-D5	392.2 -> 238...					
Maprotiline	278.2 -> 91.2	2/26/2019 2:22 PM						278.2 -> 117...				Amiripylone-D3	281.2 -> 91.2					
MDA	180.1 -> 163...	2/26/2019 2:22 PM						180.1 -> 105...				MDA-D5	185.1 -> 168...	5.04	270556			
MDEA	208.1 -> 163...	2/26/2019 2:22 PM						208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.32	402619			
MDMA	194.1 -> 163...	2/26/2019 2:22 PM						194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.16	55574			
Meperidine	248.2 -> 220...	2/26/2019 2:22 PM						248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.81	224138			
Methocarbamol	242.0 -> 199...	2/26/2019 2:22 PM						242.0 -> 163...				Meperidine-D4	252.2 -> 224...	5.81	224138			
Methylphenidate	234.2 -> 84.2	2/26/2019 2:22 PM						234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.81	224138			
Midazolam	326.1 -> 223...	2/26/2019 2:22 PM						326.1 -> 249...				Midazolam-D4	330.1 -> 295...					
Normeperidine	234.1 -> 42.3	2/26/2019 2:22 PM						234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.67	154344			
Northriptyline	264.2 -> 91.2	2/26/2019 2:22 PM						264.2 -> 233...				Northriptyline-D3	267.2 -> 233...					
Olanzapine	313.2 -> 256...	2/26/2019 2:22 PM						313.2 -> 84.1				Meperidine-D4	252.2 -> 224...	5.81	224138			
Paroxetine	330.4 -> 192...	2/26/2019 2:22 PM						330.4 -> 70.2				Meperidine-D4	252.2 -> 224...	5.81	224138			
Phenazepam	349.0 -> 206...	2/26/2019 2:22 PM						349.0 -> 183...				Phenazepam-D4	353.0 -> 183...					
Phencyclidine	244.2 -> 86.2	2/26/2019 2:22 PM						244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.97	696317			
Phenylethanolamine	253.1 -> 104...	2/26/2019 2:22 PM						253.1 -> 182...				Phenylethanolamine-D10	263.2 -> 192...	6.03	9246			
Pseudoephedrine	166.1 -> 148...	2/26/2019 2:22 PM						166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.64	52940...			
Sufentanil	387.2 -> 238...	2/26/2019 2:22 PM						387.2 -> 111...				Sufentanil-D5	392.2 -> 238...					
Tapentadol	222.2 -> 107...	2/26/2019 2:22 PM						222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.51	593682			
Zaleplon	306.1 -> 236...	2/26/2019 2:22 PM						306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.23	136057			
Zopiclone	389.1 -> 244...	2/26/2019 2:22 PM						389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.42	113293			

* Instrument communication interrupted during this acquisition, sample was reinserted
 on

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

Extraction Date: 2/26/19

Analyst: Britany Wylie

Plate lot#: 0539904

Plate Expiration: 09/10/2019

Mobile phase A: 10mM Ammonium Formate
0.1% Formic Acid in Water

Mobile phase B: 0.1% Formic acid in MeOH
Hexane

Blank Blood Lot: 19A207P3

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

LCMS-QQQ ID: 62340

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.
- 3. Create worklist:

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **1000 µL blood (calibrated pipette) Pipette ID: k52558g** in wells of analytical (standards) plate.
 - Blank blood for locations containing standards/QCs and internal standards
 - Sample blood for locations containing only internal standards
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **500 µL 0.1% formic acid** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **800 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: 66792
- 8. Wait 5 minutes.
- 9. Add **2.25 mL 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 **2.25 mL 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: 66819
- 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.
 - Data path: D:\2019 data\am25-26\022619 AM 25-26 reinject
 - Batch Name: 22619 cann screen
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 5 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/- .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: C-THC curve 5-100,

ISP FORENSICS - Cd'A

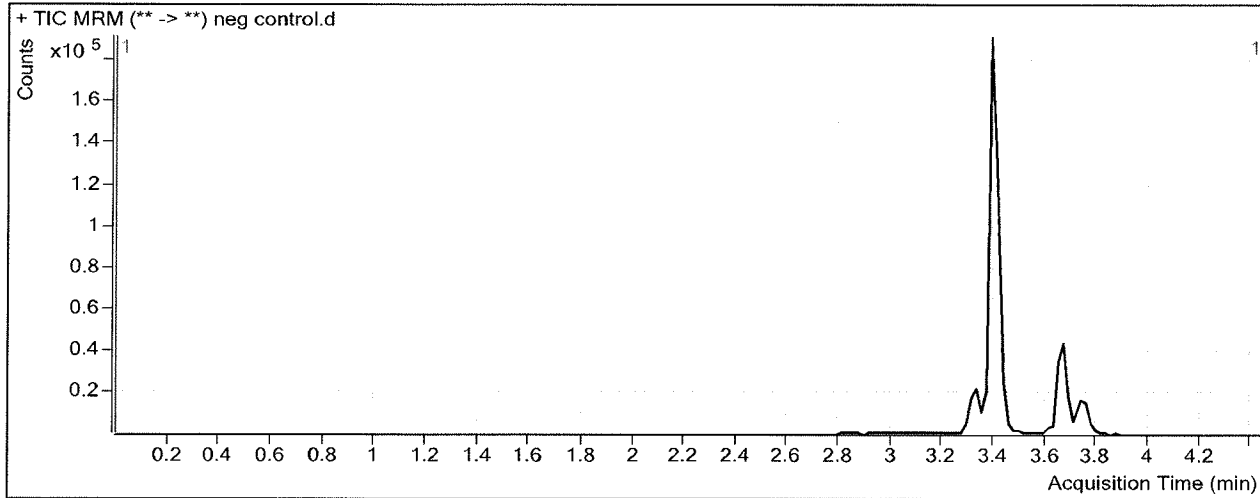
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:51 **Data File** neg control.d
Sample Type Sample **Sample Name** neg control
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-A2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen; Neg blood lot 19A207P3

Sample Chromatogram



ISP FORENSICS - Cd'A

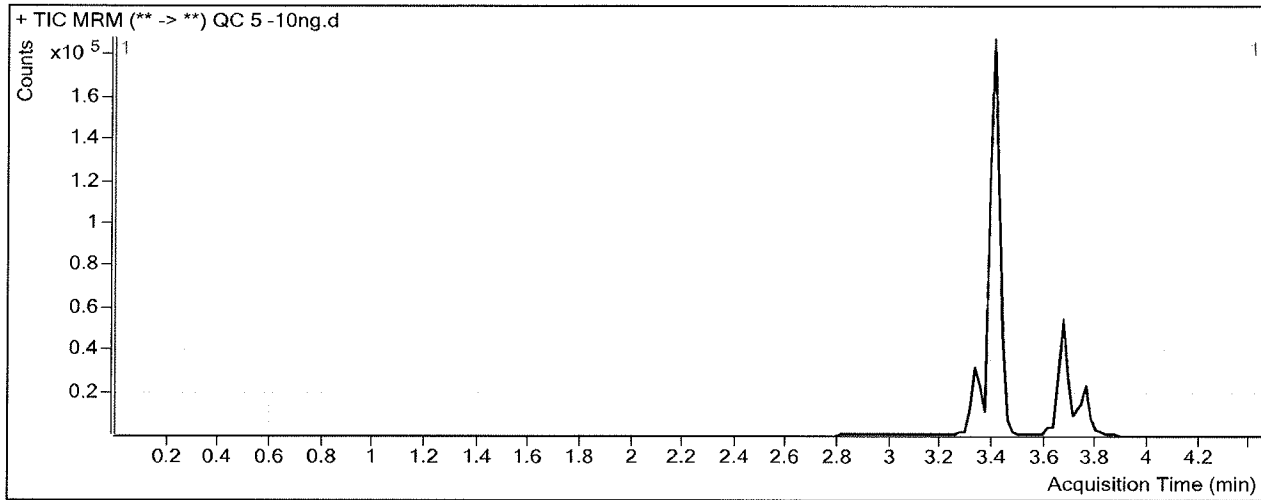
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:38 **Data File** QC 5 -10ng.d
Sample Type QC **Sample Name** QC 5 -10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen 5 ng THC, THC-OH, 10 ng C-THI

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	12667	77316	0.1638	11.7669
THC-OH	3.412	15417	412047	0.0374	5.1451
THC	3.760	1586	37330	0.0425	5.0010

ISP Forensics Calibration Curve Report

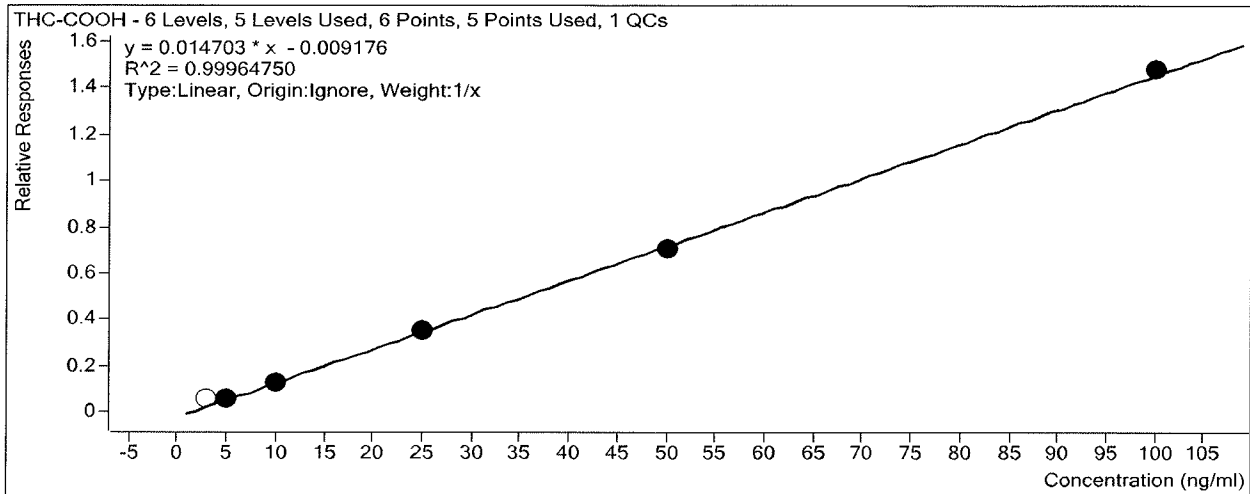
Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin

Last Calib Update 2/27/2019 8:58 AM

Analyst Name ISP TOX

Target Compound *THC-COOH*

Internal Standard *THC-COOH-d9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input type="checkbox"/>	3	5.2	172.4
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.2	103.2
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.7	97.3
QC 5 -10ng	3	<input checked="" type="checkbox"/>	10	11.8	117.7
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.1	100.5
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	49.0	98.0
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	101.0	101.0
QC 5 -10ng	7	<input checked="" type="checkbox"/>	10	11.8	117.7

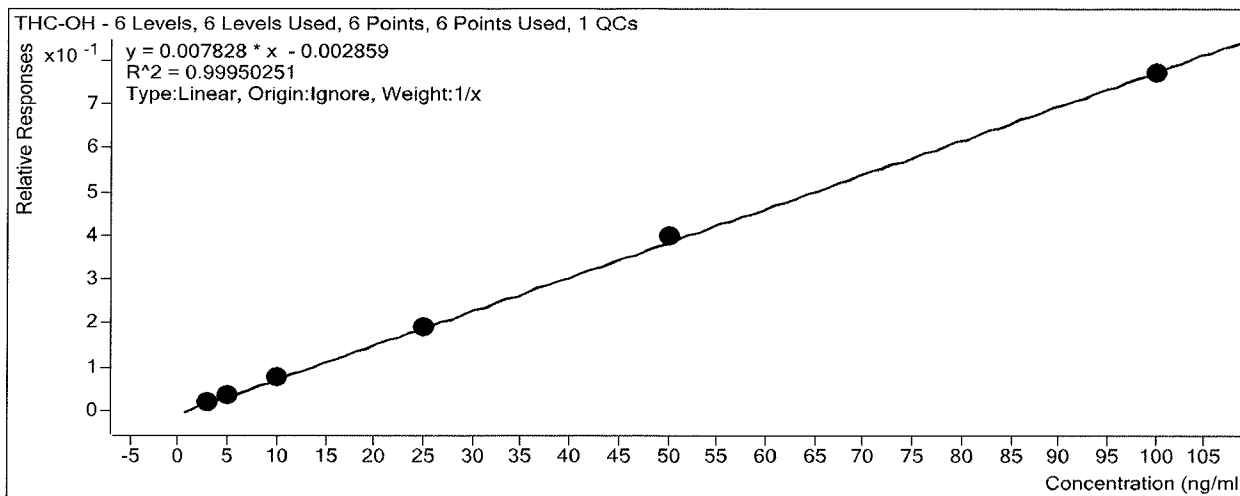
PLW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin

Last Calib Update 2/27/2019 8:58 AM **Analyst Name** ISP TOX

Target Compound *THC-OH*
Internal Standard *THC-OH-d3*



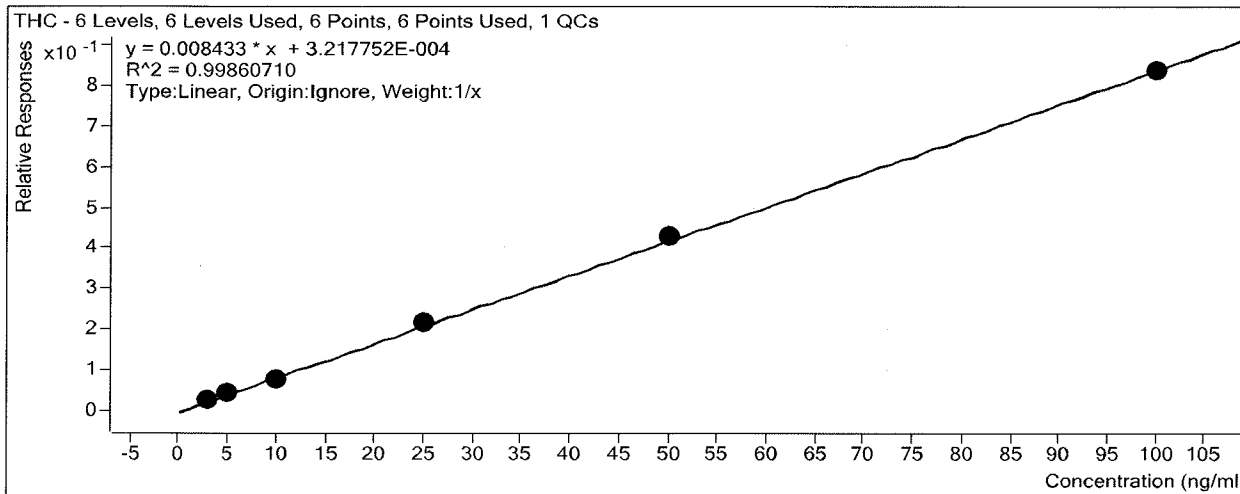
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	3.1	104.3
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.7	93.3
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.1	101.4
QC 5 -10ng	3	<input checked="" type="checkbox"/>	10	5.1	51.5
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.9	99.7
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	51.2	102.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	99.0	99.0
QC 5 -10ng	7	<input checked="" type="checkbox"/>	5	5.1	51.5

ISP Forensics Calibration Curve Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin

Last Calib Update 2/27/2019 8:58 AM **Analyst Name** ISP TOX

Target Compound *THC*
Internal Standard *THC-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	3.3	110.7
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.8	96.8
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	8.9	89.2
QC 5 -10ng	3	<input checked="" type="checkbox"/>	10	5.0	50.0
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.4	101.4
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	51.3	102.5
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	99.3	99.3
QC 5 -10ng	7	<input checked="" type="checkbox"/>	5	5.0	50.0

ISP FORENSICS - Cd'A

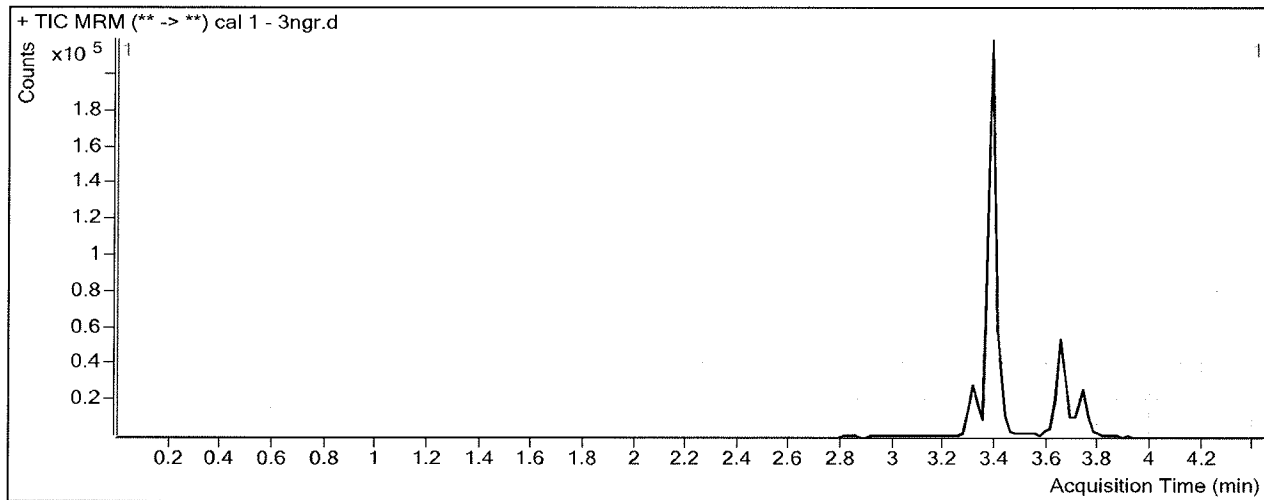
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:01 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 22:52 **Data File** cal 1 - 3ngr.d
Sample Type Calibration **Sample Name** cal 1 - 3ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1-b1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	5697	85180	0.0669	5.1727
THC-OH	3.392	10276	474852	0.0216	3.1299
THC	3.740	1089	38465	0.0283	3.3199

ISP FORENSICS - Cd'A

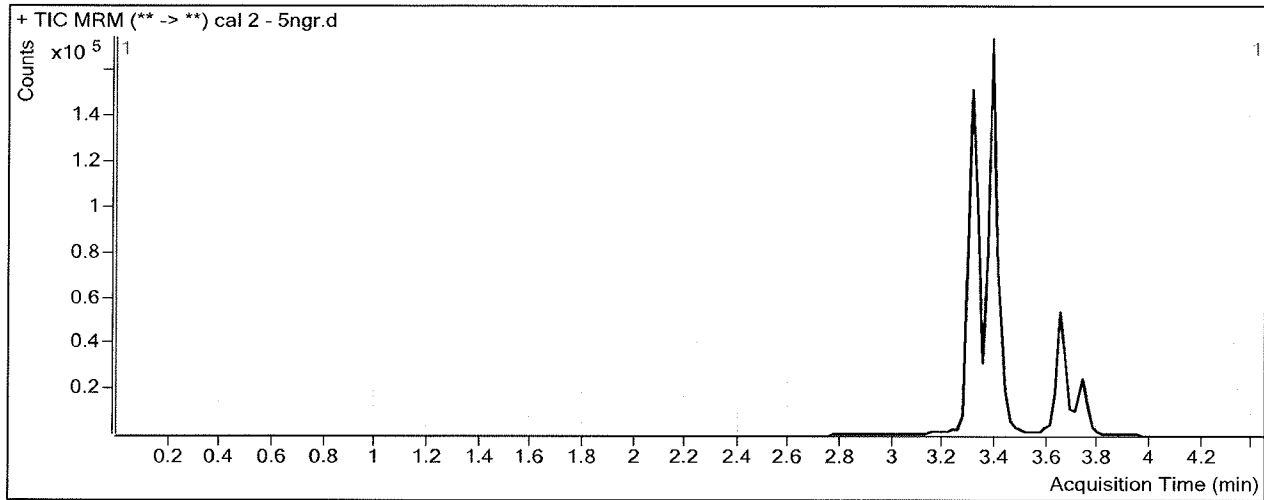
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:01 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 22:58 **Data File** cal 2 - 5ngr.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	27997	419810	0.0667	5.1597
THC-OH	3.392	13070	388502	0.0336	4.6629
THC	3.740	1485	36076	0.0412	4.8422

ISP FORENSICS - Cd'A

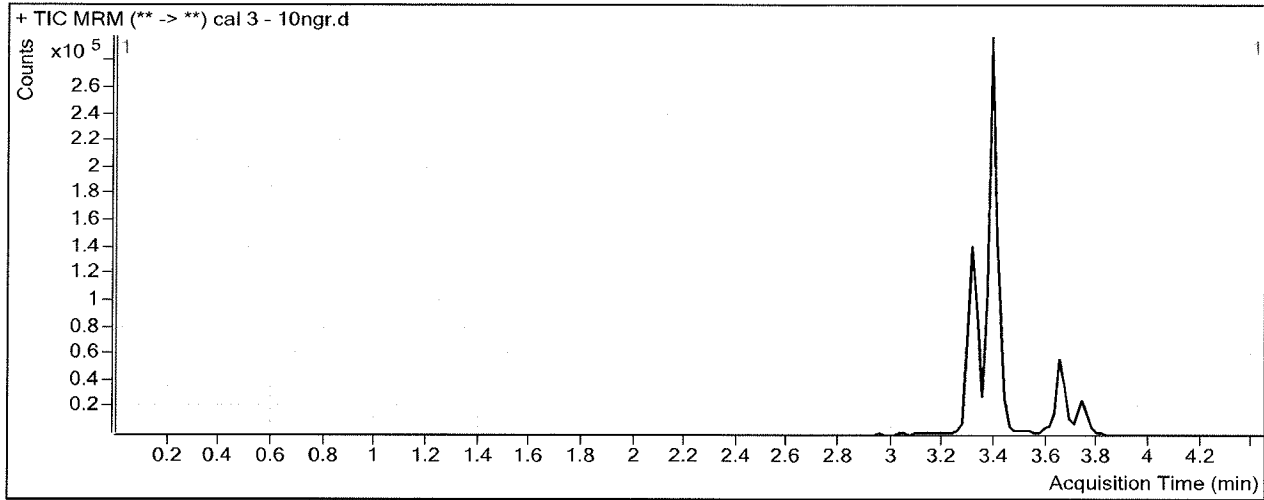
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:01 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:05 **Data File** cal 3 - 10ngr.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1-d1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	47842	357194	0.1339	9.7334
THC-OH	3.392	47611	622239	0.0765	10.1401
THC	3.740	2832	37482	0.0756	8.9227

ISP

ISP FORENSICS - Cd'A

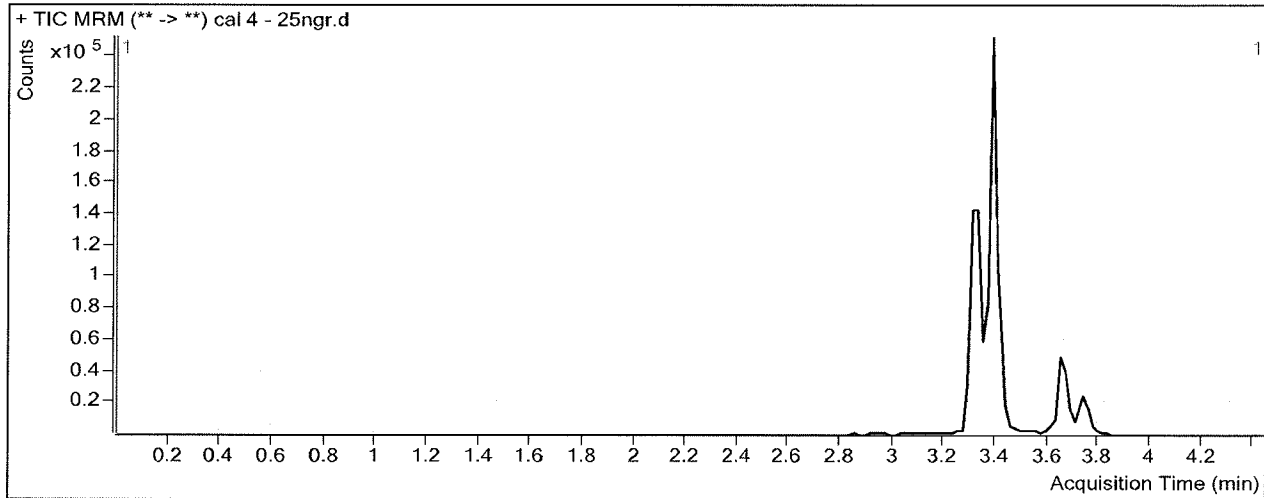
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:01 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:12 **Data File** cal 4 - 25ngr.d
Sample Type Calibration **Sample Name** cal 4 - 25ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	111402	309233	0.3603	25.1254
THC-OH	3.392	82179	427662	0.1922	24.9135
THC	3.740	6973	32555	0.2142	25.3586

ISP FORENSICS - Cd'A

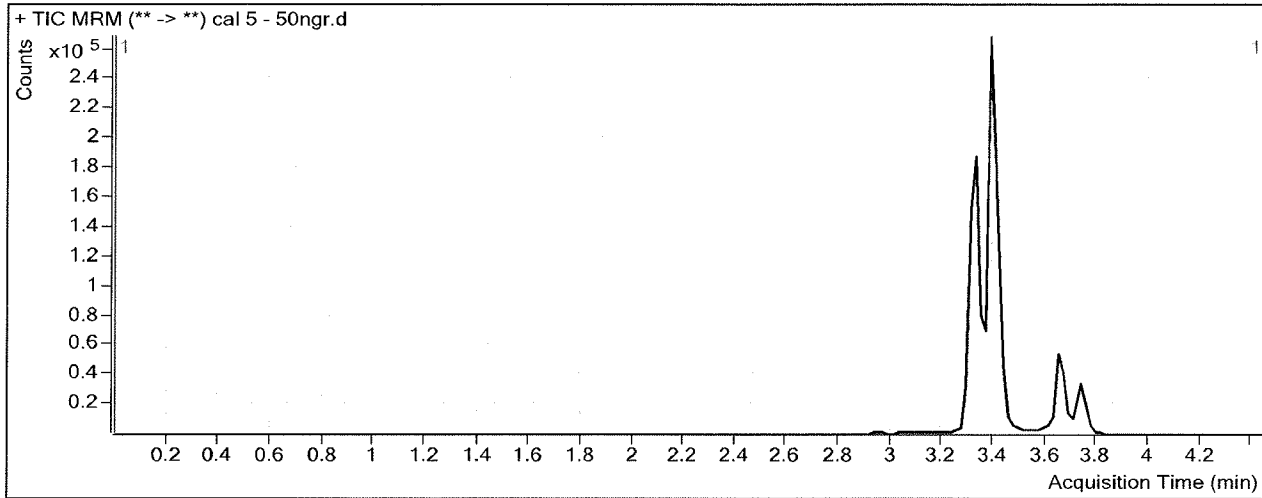
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:01 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:18 **Data File** cal 5 - 50ngr.d
Sample Type Calibration **Sample Name** cal 5 - 50ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1-f1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	196804	276752	0.7111	48.9883
THC-OH	3.392	177401	445789	0.3979	51.2033
THC	3.740	16288	37642	0.4327	51.2726

ISP FORENSICS - Cd'A

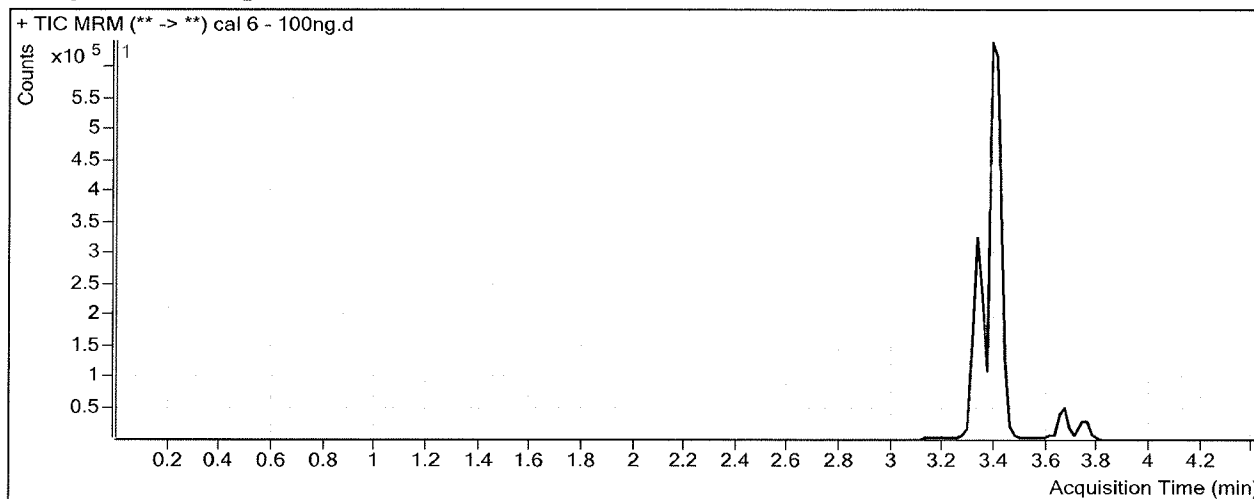
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:01 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:25 **Data File** cal 6 - 100ng.d
Sample Type Calibration **Sample Name** cal 6 - 100ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	458975	311007	1.4758	100.9931
THC-OH	3.412	681254	882795	0.7717	98.9503
THC	3.760	26441	31568	0.8376	99.2840

BW

ISP FORENSICS - Cd'A

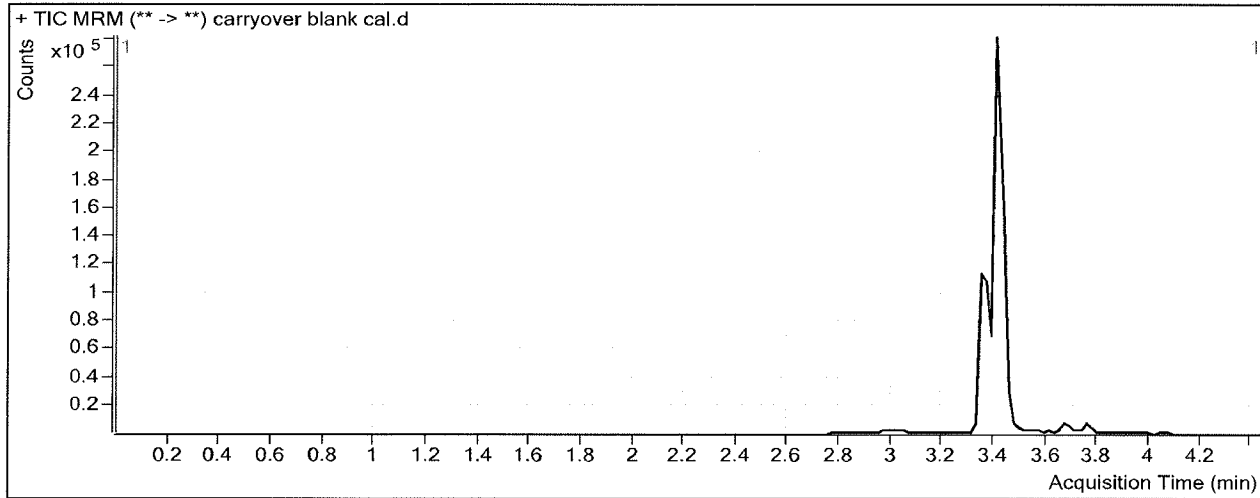
Cannabinoid Screen Report

Batch Data Path D:\2019 Data\am25-26\022619 AM 25-26 reinject\QuantResults\22619 cann screen.batch.bin
Analysis Time 2/27/2019 8:58 AM **Analyst Name** ISP Tox
Report Time 2/27/2019 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 2/27/2019 8:58 AM **Batch State** Processed

Analysis Info

Acq Time 2019-02-26 23:31 **Data File** carryover blank cal.d
Sample Type Sample **Sample Name** carryover blank cal
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position Vial 3 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.366	11055	306081	0.0361	3.0805