

Worklist: 2350

reviewed 4/27/18

4/24/2018

Bylee

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2018-0552	1	111613	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-0577	1	110766	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-0693	1	112239	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-0716	1	112735	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-0726	1	112790	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-0755	1	113190	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-0766	2	113325	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	



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

Extraction Date: 4-23-18 Analyst: Anne Nord
Plate lot#: 0515207 Plate Expiration: 10/18/2018

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: 17J20718 **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:

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. *A 42318 mds p2*
worklist **Batch-Name:** 042318 blood screen Am 25-26 re-run **Worklist-path:** 42318 mds p1
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. > 1/3 the response of administrative control.
- 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: Samples were run 4-23-18 the retention time shifted significantly from the first couple samples. I reconstituted and re-injected all of the samples 4-24-18 *A*.

Bupropion not evaluated - poor ^A IS recovery on some samples.

A

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 1-2a			p1 cal 1-2a Results			Qualifier 1 M...			Qualifier...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Transition	S/N	Transition	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	4/24/2018 1:43 PM	5.607	2362	401.93	328.2 -> 211...	12.24	328.2 -> 211...	12.24	328.2 -> 165...	12.24	328.2 -> 165...	6-MAM-D6	334.2 -> 165...	5.545	76670			
7-aminoclonazepam	286.1 -> 121...	4/24/2018 1:43 PM	5.511	52157	Infinity	286.1 -> 222...	492.61	286.1 -> 222...	492.61	286.1 -> 121...	492.61	286.1 -> 121...	7-Aminoclonazepam-D4	290.1 -> 121...	5.490	231822			
Acetyl Fentanyl	323.2 -> 105...	4/24/2018 1:43 PM	6.586	49581	15.66	323.2 -> 188...	51.61	323.2 -> 188...	51.61	323.2 -> 105...	1653.72	323.2 -> 105...	Acetyl Fentanyl-D5	328.2 -> 105...	6.564	2757295			
Acetyl Norfentanyl	219.1 -> 84.2	4/24/2018 1:43 PM	5.011	13155	2502.77	219.1 -> 56.3	1653.72	219.1 -> 56.3	1653.72	219.1 -> 84.2	88.59	219.1 -> 84.2	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.971	700427			
a-hydroxyalprazolam	325.1 -> 297...	4/24/2018 1:43 PM	6.383	13636	107.94	325.1 -> 215...	Infinity	325.1 -> 215...	Infinity	325.1 -> 297...	Infinity	325.1 -> 297...	a-hydroxyalprazolam-D5	330.1 -> 302...	6.381	62626			
alpha-PVP	232.2 -> 91.0	4/24/2018 1:43 PM	6.152	173385	530.00	309.1 -> 205...	465.96	309.1 -> 205...	465.96	232.2 -> 91.0	465.96	232.2 -> 91.0	alpha-PVP-d8	240.2 -> 91.1	6.069	824498			
Alprazolam	309.1 -> 281...	4/24/2018 1:43 PM	6.488	67466	Infinity	136.1 -> 119...	Infinity	136.1 -> 119...	Infinity	309.1 -> 281...	Infinity	309.1 -> 281...	Alprazolam-D5	314.1 -> 286...	6.467	274893			
Amphetamine	136.1 -> 91.1	4/24/2018 1:43 PM	4.973	242124	Infinity	240.1 -> -131...	Infinity	240.1 -> -131...	Infinity	136.1 -> 91.1	240.1 -> -131...	136.1 -> 91.1	Amphetamine-D11	147.2 -> 130...	4.933	212791			
Bupropion	240.1 -> 184...	4/24/2018 1:43 PM	6.129	94738	157.58	261.2 -> 55.3	78.22	261.2 -> 55.3	78.22	240.1 -> 184...	78.22	261.2 -> 55.3	Bupropion-D9	249.2 -> 185...	6.313	10004			
Carisoprodol	261.2 -> 176...	4/24/2018 1:43 PM	6.301	314724	Infinity	325.2 -> 262...	299.08	325.2 -> 262...	299.08	261.2 -> 176...	299.08	261.2 -> 176...	Carisoprodol-D7	268.2 -> 183...	6.108	538411			
Citalopram	325.2 -> 109...	4/24/2018 1:43 PM	6.324	29581	Infinity	316.1 -> 213...	2361.57	316.1 -> 213...	2361.57	325.2 -> 109...	2361.57	325.2 -> 109...	Citalopram-D6	331.2 -> 109...	6.279	1396298			
Clonazepam	316.1 -> 269...	4/24/2018 1:43 PM	5.633	11327	43.78	300.2 -> 165...	54.24	300.2 -> 165...	54.24	316.1 -> 269...	54.24	316.1 -> 269...	Clonazepam-D4	320.1 -> 217...	6.323	41432			
Codeine	300.2 -> 215...	4/24/2018 1:43 PM	5.637	200065	Infinity	276.2 -> 231...	170.54	276.2 -> 231...	170.54	300.2 -> 215...	170.54	276.2 -> 231...	Codeine-D6	306.2 -> 218...	5.550	53870			
Cyclobenzaprine	272.2 -> 214...	4/24/2018 1:43 PM	6.434	89429	28.89	272.2 -> 147...	10724...	272.2 -> 147...	10724...	272.2 -> 214...	10724...	272.2 -> 214...	Cyclobenzaprine-D3	279.2 -> 215...	6.736	917122			
Dextromethorphan	258.2 -> 157...	4/24/2018 1:43 PM	5.639	67137	14204.43	258.2 -> 133...	233.14	258.2 -> 133...	233.14	258.2 -> 157...	233.14	258.2 -> 157...	Dextromethorphan-D3	275.2 -> 171...	6.413	423938			
Dextropropion	285.1 -> 193...	4/24/2018 1:43 PM	6.714	50767	Infinity	285.1 -> 153...	139.79	285.1 -> 153...	139.79	285.1 -> 193...	139.79	285.1 -> 193...	Dextropropion-D5	290.1 -> 198...	6.693	224725			
Diazepam	302.2 -> 198...	4/24/2018 1:43 PM	5.285	41436	Infinity	302.2 -> 128...	Infinity	302.2 -> 128...	Infinity	302.2 -> 198...	Infinity	302.2 -> 128...	Diazepam-D5	308.2 -> 202...	5.243	188224			
Dihydrocodeine	256.2 -> 167...	4/24/2018 1:43 PM	6.333	520875	Infinity	256.2 -> 152...	Infinity	256.2 -> 152...	Infinity	256.2 -> 167...	Infinity	256.2 -> 152...	Dihydrocodeine-D6	259.2 -> 167...	6.313	2799117			
Diphenhydramine	271.2 -> 182...	4/24/2018 1:43 PM	5.883	461521	Infinity	271.2 -> 167...	919.63	271.2 -> 167...	919.63	271.2 -> 182...	919.63	271.2 -> 167...	Diphenhydramine-D3	276.2 -> 187...	5.882	2346323			
Doxylamine	279.2 -> 235...	4/24/2018 1:43 PM	6.208	66406	198.19	279.2 -> 250...	2832.77	279.2 -> 250...	2832.77	279.2 -> 235...	2832.77	279.2 -> 250...	Doxylamine-D5	282.2 -> 235...	6.208	31366			
EDDP	337.2 -> 105...	4/24/2018 1:43 PM	6.744	58321	66.23	337.2 -> 188...	289.07	337.2 -> 188...	289.07	337.2 -> 105...	289.07	337.2 -> 188...	EDDP-D3	342.3 -> 105...	6.744	2426122			
Fentanyl	310.1 -> 44.3	4/24/2018 1:43 PM	6.467	373913	Infinity	310.1 -> 148...	8.11	310.1 -> 148...	8.11	310.1 -> 44.3	8.11	310.1 -> 148...	Fentanyl-D5	316.2 -> 44.3	6.466	1669081			
Fluoxetine	300.2 -> 198...	4/24/2018 1:43 PM	5.817	59886	Infinity	300.2 -> 128...	Infinity	300.2 -> 128...	Infinity	300.2 -> 198...	Infinity	300.2 -> 128...	Fluoxetine-D6	306.2 -> 202...	5.776	316457			
Hydrocodone	286.2 -> 184...	4/24/2018 1:43 PM	5.186	34544	81.27	286.2 -> 157...	Infinity	286.2 -> 157...	Infinity	286.2 -> 184...	Infinity	286.2 -> 157...	Hydrocodone-D6	292.2 -> 185...	5.104	106436			
Hydromorphone	238.1 -> 125...	4/24/2018 1:43 PM	6.274	186787	7740.46	238.1 -> 220...	Infinity	238.1 -> 220...	Infinity	238.1 -> 125...	Infinity	238.1 -> 125...	Hydromorphone-D6	242.1 -> 129...	6.253	803784			
Ketamine	219.1 -> 158...	4/24/2018 1:43 PM	5.601	35171	111.86	219.1 -> 97.1	116.99	219.1 -> 97.1	116.99	219.1 -> 158...	116.99	219.1 -> 97.1	Ketamine-D4	226.2 -> 165...	5.580	200816			
Meprobamate	310.2 -> 265...	4/24/2018 1:43 PM	6.589	352437	190278...	310.2 -> 105...	243.46	310.2 -> 105...	243.46	310.2 -> 265...	243.46	310.2 -> 105...	Meprobamate-D7	319.3 -> 268...	6.567	1867559			
Methadone	150.1 -> 91.1	4/24/2018 1:43 PM	4.963	8565	1556.68	286.2 -> 165...	3.74	286.2 -> 165...	3.74	150.1 -> 91.1	3.74	286.2 -> 165...	Methadone-D9	161.2 -> 97.1	5.114	583465			
Methamphetamine	286.2 -> 201...	4/24/2018 1:43 PM	6.199	58788	68.81	328.2 -> 211...	327.10	328.2 -> 211...	327.10	286.2 -> 201...	327.10	328.2 -> 211...	Morphine-D6	292.2 -> 152...	4.881	4611			
Morphine	328.2 -> 309...	4/24/2018 1:43 PM	5.360	136171	47715.58	344.2 -> 308...	4867.13	344.2 -> 308...	4867.13	328.2 -> 309...	4867.13	344.2 -> 308...	Naloxone-D5	333.2 -> 315...	6.137	464471			
Naloxone	344.2 -> 326...	4/24/2018 1:43 PM	5.790	77871	279.46	342.2 -> 55.3	Infinity	342.2 -> 55.3	Infinity	344.2 -> 326...	Infinity	342.2 -> 55.3	Naltrexol-D3	347.2 -> 329...	5.319	487904			
Naltrexol	342.2 -> 324...	4/24/2018 1:43 PM	6.113	7887	38.71	414.3 -> 57.3	1587.16	414.3 -> 57.3	1587.16	342.2 -> 324...	1587.16	414.3 -> 57.3	Naltrexone-D3	345.2 -> 327...	5.728	330702			
Naltrexone	414.3 -> 101...	4/24/2018 1:43 PM	6.556	29435	62.08	271.1 -> 208...	7476.31	271.1 -> 208...	7476.31	414.3 -> 101...	7476.31	414.3 -> 101...	Norbuprenorphine-D3	417.3 -> 101...	6.092	40523			
Norbuprenorphine	271.1 -> 140...	4/24/2018 1:43 PM	6.577	200298	906.38	233.2 -> 55.3	Infinity	233.2 -> 55.3	Infinity	271.1 -> 140...	Infinity	271.1 -> 140...	Nordiazepam-D5	276.1 -> 140...	6.555	96251			
Nordiazepam	233.2 -> 199...	4/24/2018 1:43 PM	5.166	5634	17.82	286.2 -> 171...	9.42	286.2 -> 171...	9.42	233.2 -> 199...	9.42	286.2 -> 171...	Norfentanyl-D5	238.2 -> 84.2	5.456	939702			
Norfentanyl	286.2 -> 199...	4/24/2018 1:43 PM	5.021	21260	Infinity	302.1 -> 186...	77.74	302.1 -> 186...	77.74	286.2 -> 199...	77.74	302.1 -> 186...	Norhydrocodone-D3	289.2 -> 202...	5.125	79746			
Norhydrocodone	302.1 -> 284...	4/24/2018 1:43 PM	5.069	354813	3774.39	250.2 -> 42.3	32.69	250.2 -> 42.3	32.69	302.1 -> 284...	32.69	250.2 -> 42.3	Noroxycodone-D3	305.2 -> 287...	5.020	156388			
Noroxycodone	250.2 -> 58.3	4/24/2018 1:43 PM	6.389	34290	Infinity	287.1 -> 268...	44.28	287.1 -> 268...	44.28	250.2 -> 58.3	44.28	287.1 -> 268...	O-desmethyl-tramadol...	256.2 -> 64.3	5.049	1513909			
O-desmethyl-tramadol	287.1 -> 240...	4/24/2018 1:43 PM	5.528	79731	Infinity	316.2 -> 241...	33.92	316.2 -> 241...	33.92	287.1 -> 240...	33.92	316.2 -> 241...	Oxazepam-D5	292.1 -> 246...	6.388	183695			
Oxazepam	316.2 -> 298...	4/24/2018 1:43 PM	4.839	96693	Infinity	302.1 -> 227...	7594.60	302.1 -> 227...	7594.60	316.2 -> 298...	7594.60	302.1 -> 227...	Oxycodone-D6	322.2 -> 304...	5.445	432951			
Oxycodone	302.1 -> 284...	4/24/2018 1:43 PM	5.276	55243	Infinity	150.1 -> 133...	1.39	150.1 -> 133...	1.39	302.1 -> 284...	1.39	150.1 -> 133...	Oxymorphone-D3	305.2 -> 287...	4.757	402995			
Oxymorphone	150.1 -> 65.2	4/24/2018 1:43 PM	6.919	678420	Infinity	285.1 -> 71.3	400.67	285.1 -> 71.3	400.67	150.1 -> 65.2	400.67	285.1 -> 71.3	Phentermine-D5	155.2 -> 96.2	5.256	638427			
Phentermine	285.1 -> 86.2	4/24/2018 1:43 PM	6.763	361191	2118.82	384.2 -> 221...	876.03	384.2 -> 221...	876.03	285.1 -> 86.2	876.03	384.2 -> 221...	Promethazine-D3	288.2 -> 89.2	6.877	3575077			
Promethazine	384.2 -> 253...	4/24/2018 1:43 PM	6.875	82255	99.80	306.1 -> 275...	Infinity	306.1 -> 275...	Infinity	384.2 -> 253...	Infinity	306.1 -> 275...	Quetiapine-D8	392.2 -> 226...	6.742	459298			
Quetiapine	306.1 -> 158...	4/24/2018 1:43 PM	7.044	45355	16535.90	387.2 -> 111...	72.16	387.2 -> 111...	72.16	306.1 -> 158...	72.16	387.2 -> 111...	Sertraline-D3	309.1 -> 275...	6.853	402224			
Sertraline	387.2 -> 238...	4/24/2018 1:43 PM	7.044	45355	16535.90	387.2 -> 111...	72.16	387.2 -> 111...	72.16	387.2 -> 238...	72.16	387.2 -> 111...	Sufentanil-D5	392.2 -> 238...	7.044	1710189			
Sufentanil																			

not evaluated

peak shape ok

Compound Method		p1 cal 1-2a			p1 cal 1-2a Results			Qualifier 1 M...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.		
Temazepam	301.1 -> 255...	4/24/2018 1:43 PM	6.530	113575	283.72	301.1 -> 283...	38.84	306.1 -> 260...	6.530	Temazepam-D5	306.1 -> 260...	6.530	546893		
Tramadol	264.2 -> 58.3	4/24/2018 1:43 PM	5.679	433912	Infinity	264.2 -> 43.3	Infinity	268.2 -> 58.3	5.658	Tramadol-13C-D3	268.2 -> 58.3	5.658	1996053		
Trazodone	372.2 -> 176...	4/24/2018 1:43 PM	6.906	284061	3115.41	372.2 -> 148...	243.03	378.2 -> 182...	6.885	Trazodone-D6	378.2 -> 182...	6.885	1276888		
Venlafaxine	278.2 -> 58.3	4/24/2018 1:43 PM	6.024	468409	695.05	278.2 -> 260...	34.04	284.2 -> 64.3	5.983	Venlafaxine-D6	284.2 -> 64.3	5.983	1983244		
Zolpidem	308.2 -> 235...	4/24/2018 1:43 PM	6.448	361667	174.96	308.2 -> 263...	267.70	314.2 -> 235...	6.426	Zolpidem-D6	314.2 -> 235...	6.426	1780877		

Compound Method			p1 negative			p1 negative Results			Qualifier 1 M...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	4/24/2018 1:53 PM				328.2 -> 211...		328.2 -> 211...		6-MAM-D6	334.2 -> 165...	5.545	77677			
7-aminoclonazepam	286.1 -> 121...	4/24/2018 1:53 PM				286.1 -> 222...		286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.490	204027			
Acetyl Fentanyl	323.2 -> 105...	4/24/2018 1:53 PM				323.2 -> 188...		323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	6.564	24373...			
Acetyl Norfentanyl	219.1 -> 84.2	4/24/2018 1:53 PM				219.1 -> 56.3		219.1 -> 56.3		Acetyl Norfentanyl-D5	224.2 -> 84.2	4.991	666609			
a-hydroxylprazolam	325.1 -> 297...	4/24/2018 1:53 PM				325.1 -> 215...		325.1 -> 215...		a-hydroxylprazolam-D5	330.1 -> 302...	6.381	58809			
alpha-PVP	232.2 -> 91.0	4/24/2018 1:53 PM				232.2 -> 77.1		232.2 -> 77.1		alpha-PVP-d8	240.2 -> 91.1	6.069	598205			
Alprazolam	309.1 -> 281...	4/24/2018 1:53 PM	6.305	5603	7.06	309.1 -> 205...		309.1 -> 205...		Alprazolam-D5	314.1 -> 286...	6.467	295419			
Amphetamine	136.1 -> 91.1	4/24/2018 1:53 PM	4.913	41443	Infinity	136.1 -> 119...		136.1 -> 119...		Amphetamine-D11	147.2 -> 130...	4.933	181705			
Bupropion	240.1 -> 184...	4/24/2018 1:53 PM				240.1 -> 131...		240.1 -> 131...		Bupropion-D9	249.2 -> 185...	6.334	6851			
Carisoprodol	261.2 -> 176...	4/24/2018 1:53 PM				261.2 -> 55.3		261.2 -> 55.3		Carisoprodol-D7	268.2 -> 183...	6.108	535309			
Citalopram	325.2 -> 109...	4/24/2018 1:53 PM				325.2 -> 262...		325.2 -> 262...		Citalopram-D6	331.2 -> 109...	6.279	11855...			
Clonazepam	316.1 -> 269...	4/24/2018 1:53 PM				316.1 -> 213...		316.1 -> 213...		Clonazepam-D4	320.1 -> 217...	6.323	44624			
Codeine	300.2 -> 215...	4/24/2018 1:53 PM				300.2 -> 165...		300.2 -> 165...		Codeine-D6	306.2 -> 218...	5.550	54209			
Cyclobenzaprine	276.2 -> 214...	4/24/2018 1:53 PM	6.575	262	0.72	276.2 -> 231...		276.2 -> 231...		Cyclobenzaprine-D3	279.2 -> 215...	6.736	709082			
Dextromethorphan	272.2 -> 171...	4/24/2018 1:53 PM				272.2 -> 147...		272.2 -> 147...		Dextromethorphan-D3	275.2 -> 171...	6.413	358709			
Dextropropion	258.2 -> 157...	4/24/2018 1:53 PM				258.2 -> 133...		258.2 -> 133...		Dextropropion-D3	261.2 -> 157...	5.618	328275			
Diazepam	285.1 -> 193...	4/24/2018 1:53 PM				285.1 -> 153...		285.1 -> 153...		Diazepam-D5	290.1 -> 198...	6.693	192971			
Dihydrocodeine	302.2 -> 198...	4/24/2018 1:53 PM				302.2 -> 128...		302.2 -> 128...		Dihydrocodeine-D6	308.2 -> 202...	5.243	171735			
Diphenhydramine	256.2 -> 167...	4/24/2018 1:53 PM	6.557	454	Infinity	256.2 -> 152...		256.2 -> 152...		Diphenhydramine-D3	259.2 -> 167...	6.313	22813...			
Doxylamine	271.2 -> 182...	4/24/2018 1:53 PM				271.2 -> 167...		271.2 -> 167...		Doxylamine-D5	276.2 -> 187...	5.882	19895...			
EDDP	279.2 -> 235...	4/24/2018 1:53 PM	6.187	208	1.19	279.2 -> 250...		279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.208	19247			
Fentanyl	337.2 -> 105...	4/24/2018 1:53 PM	6.866	2540	1.22	337.2 -> 188...		337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	6.744	20102...			
Fluoxetine	310.1 -> 44.3	4/24/2018 1:53 PM				310.1 -> 148...		310.1 -> 148...		Fluoxetine-D6	316.2 -> 44.3	6.466	13963...			
Hydrocodone	300.2 -> 198...	4/24/2018 1:53 PM				300.2 -> 128...		300.2 -> 128...		Hydrocodone-D6	306.2 -> 202...	5.755	305591			
Hydromorphone	286.2 -> 184...	4/24/2018 1:53 PM				286.2 -> 157...		286.2 -> 157...		Hydromorphone-D6	292.2 -> 185...	5.104	104147			
Ketamine	238.1 -> 125...	4/24/2018 1:53 PM				238.1 -> 220...		238.1 -> 220...		Ketamine-D4	242.1 -> 129...	6.253	673547			
Meprobamate	219.1 -> 158...	4/24/2018 1:53 PM				219.1 -> 97.1		219.1 -> 97.1		Meprobamate-D7	226.2 -> 165...	5.580	183446			
Methadone	310.2 -> 265...	4/24/2018 1:53 PM				310.2 -> 105...		310.2 -> 105...		Methadone-D9	319.3 -> 268...	6.567	14507...			
Methamphetamine	150.1 -> 91.1	4/24/2018 1:53 PM	5.155	115217	7.55	150.1 -> 119...	107.64	150.1 -> 119...	107.64	Methamphetamine-D11	161.2 -> 97.1	5.114	580129			
Morphine	286.2 -> 201...	4/24/2018 1:53 PM				286.2 -> 165...		286.2 -> 165...		Morphine-D6	292.2 -> 152...	4.881	4426			
Naloxone	328.2 -> 309...	4/24/2018 1:53 PM	6.300	3211	7.79	328.2 -> 211...		328.2 -> 211...		Naloxone-D5	333.2 -> 315...	6.137	410975			
Naltrexol	344.2 -> 326...	4/24/2018 1:53 PM				344.2 -> 308...		344.2 -> 308...		Naltrexol-D3	347.2 -> 329...	5.319	444702			
Naltrexone	342.2 -> 324...	4/24/2018 1:53 PM				342.2 -> 55.3		342.2 -> 55.3		Naltrexone-D3	345.2 -> 327...	5.728	306972			
Norbuprenorphine	414.3 -> 101...	4/24/2018 1:53 PM				414.3 -> 57.3		414.3 -> 57.3		Norbuprenorphine-D3	417.3 -> 101...	6.092	36716			
Nordiazepam	271.1 -> 140...	4/24/2018 1:53 PM				271.1 -> 208...		271.1 -> 208...		Nordiazepam-D5	276.1 -> 140...	6.555	103086			
Norfentanyl	233.2 -> 84.2	4/24/2018 1:53 PM				233.2 -> 55.3		233.2 -> 55.3		Norfentanyl-D5	238.2 -> 84.2	5.456	806932			
Norhydrocodone	286.2 -> 199...	4/24/2018 1:53 PM				286.2 -> 171...		286.2 -> 171...		Norhydrocodone-D3	289.2 -> 202...	5.145	78182			
Noroxycodone	302.1 -> 284...	4/24/2018 1:53 PM				302.1 -> 186...		302.1 -> 186...		Noroxycodone-D3	305.2 -> 287...	5.020	167465			
O-desmethyl-tramadol	250.2 -> 58.3	4/24/2018 1:53 PM				250.2 -> 42.3		250.2 -> 42.3		O-desmethyl-tramadol...	256.2 -> 64.3	5.049	13674...			
Oxazepam	287.1 -> 240...	4/24/2018 1:53 PM				287.1 -> 268...		287.1 -> 268...		Oxazepam-D5	292.1 -> 246...	6.388	172442			
Oxycodone	316.2 -> 298...	4/24/2018 1:53 PM				316.2 -> 241...		316.2 -> 241...		Oxycodone-D6	322.2 -> 304...	5.445	374810			
Oxymorphone	302.1 -> 284...	4/24/2018 1:53 PM				302.1 -> 227...		302.1 -> 227...		Oxymorphone-D3	305.2 -> 287...	4.757	380835			
Phentermine	150.1 -> 65.2	4/24/2018 1:53 PM	5.439	472	Infinity	150.1 -> 133...	1.04	150.1 -> 133...	1.04	Phentermine-D5	155.2 -> 96.2	5.256	619055			
Promethazine	385.1 -> 86.2	4/24/2018 1:53 PM				385.1 -> 71.3		385.1 -> 71.3		Promethazine-D3	288.2 -> 89.2	6.898	28874...			
Quetiapine	284.2 -> 253...	4/24/2018 1:53 PM				284.2 -> 221...		284.2 -> 221...		Quetiapine-D8	392.2 -> 226...	6.742	416866			
Sertraline	306.1 -> 158...	4/24/2018 1:53 PM				306.1 -> 275...		306.1 -> 275...		Sertraline-D3	309.1 -> 275...	6.853	325596			
Sufentanil	387.2 -> 238	4/24/2018 1:53 PM	7.044	2025	10.60	387.2 -> 111		387.2 -> 111		Sufentanil-D5	300.2 -> 238	7.044	13012			

Compound Method		p1 negative			p1 negative Results			Qualifier 1 M...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	Name	Transition	RT	Resp.		
Temazepam	301.1 -> 255..	4/24/2018 1:53 PM				301.1 -> 283...		306.1 -> 260...	Temazepam-D5		6.530	561644		
Tramadol	264.2 -> 58.3	4/24/2018 1:53 PM	5.679	8633	4.08	264.2 -> 43.3		268.2 -> 58.3	Tramadol-13C-D3		5.658	17924...		
Trazodone	372.2 -> 176..	4/24/2018 1:53 PM				372.2 -> 148...		378.2 -> 182...	Trazodone-D6		6.885	11437...		
Venlafaxine	278.2 -> 58.3	4/24/2018 1:53 PM				278.2 -> 260...		284.2 -> 64.3	Venlafaxine-D6		5.983	16482...		
Zolpidem	308.2 -> 235...	4/24/2018 1:53 PM				308.2 -> 263...		314.2 -> 235...	Zolpidem-D6		6.426	16040...		

Compound Method			p1 external control			p1 external control Results			Qualifier 1 M...		Qualifi...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	4/24/2018 10:46 AM				328.2 -> 211...		328.2 -> 211...		6-MAM-D6	334.2 -> 165...	5.484	47580			
7-aminoclonazepam	286.1 -> 121...	4/24/2018 10:46 AM				286.1 -> 222...		286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.511	146747			
Acetyl Fentanyl	323.2 -> 105...	4/24/2018 10:46 AM				323.2 -> 188...		323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	6.503	16194...			
Acetyl Norfentanyl	219.1 -> 84.2	4/24/2018 10:46 AM				219.1 -> 56.3		219.1 -> 56.3		Acetyl Norfentanyl-D5	224.2 -> 84.2	4.971	432597			
a-hydroxyalprazolam	325.1 -> 297...	4/24/2018 10:46 AM				325.1 -> 215...		325.1 -> 215...		a-hydroxyalprazolam-D5	330.1 -> 302...	6.381	48636			
alpha-PVP	232.2 -> 91.0	4/24/2018 10:46 AM				232.2 -> 77.1		232.2 -> 77.1		alpha-PVP-d8	240.2 -> 91.1	5.988	435031			
Alprazolam	309.1 -> 281...	4/24/2018 10:46 AM	6.305	5264	609.48	309.1 -> 205...		309.1 -> 205...		Alprazolam-D5	314.1 -> 286...	6.467	209945			
Amphetamine	136.1 -> 91.1	4/24/2018 10:46 AM	4.933	26484	Infinity	136.1 -> 119...		136.1 -> 119...		Amphetamine-D11	147.2 -> 130...	4.892	124571			
Bupropion	240.1 -> 184...	4/24/2018 10:46 AM				240.1 -> 131...		240.1 -> 131...		Bupropion-D9	249.2 -> 185...	6.252	7040			
Carisoprodol	261.2 -> 176...	4/24/2018 10:46 AM				261.2 -> 55.3		261.2 -> 55.3		Carisoprodol-D7	268.2 -> 183...	6.108	432394			
Citalopram	325.2 -> 109...	4/24/2018 10:46 AM				325.2 -> 262...		325.2 -> 262...		Citalopram-D6	331.2 -> 109...	6.239	843221			
Clonazepam	316.1 -> 269...	4/24/2018 10:46 AM				316.1 -> 213...		316.1 -> 213...		Clonazepam-D4	320.1 -> 217...	6.323	42479			
Codeine	300.2 -> 215...	4/24/2018 10:46 AM	5.756	10036	43.89	300.2 -> 165...		300.2 -> 165...	33.65	Codeine-D6	306.2 -> 218...	5.488	35839			
Cyclobenzaprine	276.2 -> 214...	4/24/2018 10:46 AM				276.2 -> 231...		276.2 -> 231...		Cyclobenzaprine-D3	279.2 -> 215...	6.655	566478			
Dextromethorphan	272.2 -> 171...	4/24/2018 10:46 AM				272.2 -> 147...		272.2 -> 147...		Dextromethorphan-D3	275.2 -> 171...	6.352	259070			
Dextropropion	258.2 -> 157...	4/24/2018 10:46 AM				258.2 -> 133...		258.2 -> 133...		Dextropropion-D3	261.2 -> 157...	5.597	237719			
Diazepam	285.1 -> 193...	4/24/2018 10:46 AM				285.1 -> 153...		285.1 -> 153...		Diazepam-D5	290.1 -> 198...	6.693	168271			
Dihydrocodeine	302.2 -> 198...	4/24/2018 10:46 AM				302.2 -> 128...		302.2 -> 128...		Dihydrocodeine-D6	308.2 -> 202...	5.182	114734			
Diphenhydramine	256.2 -> 167...	4/24/2018 10:46 AM				256.2 -> 152...		256.2 -> 152...		Diphenhydramine-D3	259.2 -> 167...	6.252	15528...			
Doxylamine	271.2 -> 182...	4/24/2018 10:46 AM				271.2 -> 167...		271.2 -> 167...		Doxylamine-D5	276.2 -> 187...	5.841	12345...			
EDDP	279.2 -> 235...	4/24/2018 10:46 AM				279.2 -> 250...		279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.186	32040			
Fentanyl	337.2 -> 105...	4/24/2018 10:46 AM				337.2 -> 188...		337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	6.663	14766...			
Fluoxetine	310.1 -> 44.3	4/24/2018 10:46 AM				310.1 -> 148...		310.1 -> 148...		Fluoxetine-D6	316.2 -> 44.3	6.425	12033...			
Hydrocodone	300.2 -> 198...	4/24/2018 10:46 AM	5.735	376769	Infinity	300.2 -> 128...		300.2 -> 128...	Infinity	Hydrocodone-D6	306.2 -> 202...	5.694	163692			
Hydromorphone	286.2 -> 184...	4/24/2018 10:46 AM	5.125	215934	Infinity	286.2 -> 157...		286.2 -> 157...	Infinity	Hydromorphone-D6	292.2 -> 185...	5.043	66827			
Ketamine	238.1 -> 125...	4/24/2018 10:46 AM				238.1 -> 220...		238.1 -> 220...		Ketamine-D4	242.1 -> 129...	6.212	432707			
Meprobamate	219.1 -> 158...	4/24/2018 10:46 AM				219.1 -> 97.1		219.1 -> 97.1		Meprobamate-D7	226.2 -> 165...	5.580	142680			
Methadone	310.2 -> 265...	4/24/2018 10:46 AM				310.2 -> 105...		310.2 -> 105...		Methadone-D9	319.3 -> 268...	6.526	10577...			
Methamphetamine	150.1 -> 91.1	4/24/2018 10:46 AM	5.134	135358	Infinity	150.1 -> 119...		150.1 -> 119...	Infinity	Methamphetamine-D11	161.2 -> 97.1	5.093	421887			
Morphine	286.2 -> 201...	4/24/2018 10:46 AM	5.125	3612	10.25	286.2 -> 165...		286.2 -> 165...	10.77	Morphine-D6	292.2 -> 152...	4.801	2668			
Naloxone	328.2 -> 309...	4/24/2018 10:46 AM	6.320	2891	7.85	328.2 -> 211...		328.2 -> 211...		Naloxone-D5	333.2 -> 315...	6.055	319830			
Naltrexol	344.2 -> 326...	4/24/2018 10:46 AM				344.2 -> 308...		344.2 -> 308...		Naltrexol-D3	347.2 -> 329...	5.258	297133			
Naltrexone	342.2 -> 324...	4/24/2018 10:46 AM				342.2 -> 55.3		342.2 -> 55.3		Naltrexone-D3	345.2 -> 327...	5.626	223137			
Norbuprenorphine	414.3 -> 101...	4/24/2018 10:46 AM				414.3 -> 57.3		414.3 -> 57.3		Norbuprenorphine-D3	417.3 -> 101...	6.052	26427			
Nordiazepam	271.1 -> 140...	4/24/2018 10:46 AM				271.1 -> 208...		271.1 -> 208...		Nordiazepam-D5	276.1 -> 140...	6.555	88778			
Norfentanyl	233.2 -> 84.2	4/24/2018 10:46 AM				233.2 -> 55.3		233.2 -> 55.3		Norfentanyl-D5	238.2 -> 84.2	5.436	570046			
Norhydrocodone	286.2 -> 199...	4/24/2018 10:46 AM	5.105	11011	22.63	286.2 -> 171...		286.2 -> 171...	84.50	Norhydrocodone-D3	289.2 -> 202...	5.104	47522			
Noroxycodone	302.1 -> 284...	4/24/2018 10:46 AM				302.1 -> 186...		302.1 -> 186...		Noroxycodone-D3	305.2 -> 287...	4.736	33565			
O-desmethyl-tramadol	250.2 -> 58.3	4/24/2018 10:46 AM				250.2 -> 42.3		250.2 -> 42.3		O-desmethyl-tramadol...	256.2 -> 64.3	5.028	879280			
Oxazepam	287.1 -> 240...	4/24/2018 10:46 AM				287.1 -> 268...		287.1 -> 268...		Oxazepam-D5	292.1 -> 246...	6.388	190093			
Oxycodone	316.2 -> 298...	4/24/2018 10:46 AM				316.2 -> 241...		316.2 -> 241...		Oxycodone-D6	322.2 -> 304...	5.384	262931			
Oxymorphone	302.1 -> 284...	4/24/2018 10:46 AM				302.1 -> 227...		302.1 -> 227...		Oxymorphone-D3	305.2 -> 287...	4.696	257481			
Phentermine	150.1 -> 65.2	4/24/2018 10:46 AM	5.499	1238	1.78	150.1 -> 133...		150.1 -> 133...		Phentermine-D5	155.2 -> 96.2	5.236	413825			
Promethazine	285.1 -> 86.2	4/24/2018 10:46 AM				285.1 -> 71.3		285.1 -> 71.3		Promethazine-D3	288.2 -> 89.2	6.795	23373...			
Quetiapine	384.2 -> 253...	4/24/2018 10:46 AM				384.2 -> 221...		384.2 -> 221...		Quetiapine-D8	392.2 -> 226...	6.721	332987			
Sertraline	306.1 -> 158...	4/24/2018 10:46 AM	6.793	707239	326006...	306.1 -> 275...		306.1 -> 275...	1323...	Sertraline-D3	309.1 -> 275...	6.792	302625			
Cifentani...	387.2 -> 238	4/24/2018 10:46 AM				387.2 -> 111		387.2 -> 111		Cifentani...	392.2 -> 238	6.684	10128			

OK because
down
myself



Compound Method		p1 external control			p1 external control Results			Qualifier 1 M...		Qualifi...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.			
Temazepam	301.1 -> 255...	4/24/2018 10:46 AM				301.1 -> 283...		306.1 -> 260...		Temazepam-D5	306.1 -> 260...	6.530	461185			
Tramadol	264.2 -> 58.3	4/24/2018 10:46 AM				264.2 -> 43.3		268.2 -> 58.3		Tramadol-13C-D3	268.2 -> 58.3	5.617	12005...			
Trazodone	372.2 -> 176...	4/24/2018 10:46 AM				372.2 -> 148...		378.2 -> 182...		Trazodone-D6	378.2 -> 182...	6.865	10060...			
Venlafaxine	278.2 -> 58.3	4/24/2018 10:46 AM				278.2 -> 260...		284.2 -> 64.3		Venlafaxine-D6	284.2 -> 64.3	5.962	10790...			
Zolpidem	308.2 -> 235...	4/24/2018 10:46 AM				308.2 -> 263...		314.2 -> 235...		Zolpidem-D6	314.2 -> 235...	6.426	10991...			

Compound Method			p2 cal 1-2b			p2 cal 1-2b Results			Qualifier 1 M...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	4/23/2018 6:06 PM	5.701	39793	26386.04	284.1 -> 93.2	59.03	291.2 -> 138...	59.03	7-aminoflunitrazepam-D7	291.2 -> 138...	5.679	178503			
alpha-hydroxymidazolam	342.1 -> 324...	4/23/2018 6:06 PM	6.468	53176	Infinity	342.1 -> 203...	236.15	346.1 -> 328...	236.15	alpha-hydroxymidazolam...	346.1 -> 328...	6.468	273539			
Amiripityline	278.2 -> 91.2	4/23/2018 6:06 PM	6.925	64724	Infinity	278.2 -> 105...	Infinity	281.2 -> 91.2	Infinity	Amiripityline-D3	281.2 -> 91.2	6.904	462676			
Amoxapine	314.1 -> 271...	4/23/2018 6:06 PM	6.817	61509	1001.24	314.1 -> 193...	Infinity	281.2 -> 91.2	Infinity	Amiripityline-D3	281.2 -> 91.2	6.904	462676			
Benzoylcegonine	290.1 -> 168...	4/23/2018 6:06 PM	5.291	15960	128.18	290.1 -> 105...	77.76	298.2 -> 171...	77.76	Benzoylcegonine-D8	298.2 -> 171...	5.269	5073			
Carbamazepine	237.1 -> 193...	4/23/2018 6:06 PM	6.137	23864	72.41	237.1 -> 194...	99.10	243.1 -> 200...	99.10	Carbamazepine-13C6	243.1 -> 200...	6.137	10326...			
Chlordiazepoxide	300.1 -> 227...	4/23/2018 6:06 PM	6.596	30842	228.78	300.1 -> 282...	17.37	305.1 -> 286...	17.37	Chlordiazepoxide-D5	305.1 -> 286...	6.596	241179			
Clomipramine	315.2 -> 86.2	4/23/2018 6:06 PM	7.263	313163	860.57	315.2 -> 58.3	473.16	318.2 -> 89.2	473.16	Clomipramine-D3	318.2 -> 89.2	7.241	16316...			
Cocaine	304.2 -> 182...	4/23/2018 6:06 PM	6.066	156102	160.91	304.2 -> 105...	92.70	307.2 -> 185...	92.70	Cocaine-D3	307.2 -> 185...	6.024	662576			
Desipramine	267.2 -> 72.3	4/23/2018 6:06 PM	6.601	264545	Infinity	267.2 -> 44.3	632.04	270.2 -> 75.3	632.04	Desipramine-D3	270.2 -> 75.3	6.601	12198...			
Doxepin	280.2 -> 107...	4/23/2018 6:06 PM	6.620	126871	115.91	280.2 -> 77.2	11.02	283.2 -> 107...	11.02	Doxepin-D3	283.2 -> 107...	6.578	633254			
Estazolam	295.1 -> 267...	4/23/2018 6:06 PM	6.414	61412	4417.29	295.1 -> 205...	12456...	300.1 -> 272...	12456...	Estazolam-D5	300.1 -> 272...	6.392	277336			
Flunitrazepam	314.1 -> 268...	4/23/2018 6:06 PM	6.432	48796	286.06	314.1 -> 239...	199.00	321.1 -> 245...	199.00	Flunitrazepam-D7	321.1 -> 245...	6.410	10605			
Flurazepam	388.2 -> 315...	4/23/2018 6:06 PM	6.750	156247	1069.06	388.2 -> 317...	168.84	393.1 -> 244...	168.84	Zopiclone-D4	393.1 -> 244...	6.445	175486			
Imipramine	281.2 -> 86.2	4/23/2018 6:06 PM	6.862	406847	Infinity	281.2 -> 58.3	Infinity	284.2 -> 61.3	Infinity	Imipramine-D3	284.2 -> 61.3	6.578	14030			
Levamisole	205.1 -> 91.2	4/23/2018 6:06 PM	5.753	59738	33.14	205.1 -> 178...	6052.17	307.2 -> 185...	6052.17	Cocaine-D3	307.2 -> 185...	6.024	662576			
Maprotiline	278.2 -> 91.2	4/23/2018 6:06 PM	6.925	57986	Infinity	278.2 -> 117...	16.20	252.2 -> 224...	16.20	Meperidine-D4	252.2 -> 224...	6.095	329955			
MDA	180.1 -> 163...	4/23/2018 6:06 PM	5.124	41650	74.13	180.1 -> 105...	Infinity	185.1 -> 168...	Infinity	MDA-D5	185.1 -> 168...	5.124	227729			
MDEA	208.1 -> 163...	4/23/2018 6:06 PM	5.406	82917	Infinity	208.1 -> 105...	136.25	214.2 -> 166...	136.25	MDEA-D6	214.2 -> 166...	5.406	402457			
MDMA	194.1 -> 163...	4/23/2018 6:06 PM	5.264	75226	30.51	194.1 -> 105...	183.29	200.2 -> 166...	183.29	MDMA-D6	200.2 -> 166...	5.264	38750			
Meperidine	248.2 -> 220...	4/23/2018 6:06 PM	6.095	64546	201.81	248.2 -> 174...	82.97	252.2 -> 224...	82.97	Meperidine-D4	252.2 -> 224...	6.095	329955			
Methylphenidate	234.2 -> 84.2	4/23/2018 6:06 PM	5.873	286425	Infinity	234.2 -> 56.3	Infinity	252.2 -> 224...	Infinity	Meperidine-D4	252.2 -> 224...	6.095	329955			
Metoprolol	268.2 -> 116...	4/23/2018 6:06 PM	5.601	22187	39.82	268.2 -> 56.3	39.72	252.2 -> 224...	39.72	Meperidine-D4	252.2 -> 224...	6.095	329955			
Midazolam	326.1 -> 223...	4/23/2018 6:06 PM	6.633	19536	81.72	326.1 -> 249...	5478.09	330.1 -> 295...	5478.09	Midazolam-D4	330.1 -> 295...	6.632	309409			
Mirtazapine	266.2 -> 195...	4/23/2018 6:06 PM	6.643	200554	238.67	266.2 -> 72.3	151.99	330.1 -> 295...	151.99	Midazolam-D4	330.1 -> 295...	6.632	309409			
Mitragynine	399.2 -> 174...	4/23/2018 6:06 PM	6.769	69971	Infinity	399.2 -> 238...	8285.12	243.1 -> 200...	8285.12	Carbamazepine-13C6	243.1 -> 200...	6.137	10326...			
Normeperidine	234.1 -> 42.3	4/23/2018 6:06 PM	5.771	70593	112.46	234.1 -> 160...	198.13	238.2 -> 164...	198.13	Normeperidine-D4	238.2 -> 164...	5.770	234412			
Norpropoxyphene	326.2 -> 44.3	4/23/2018 6:06 PM	6.429	34008	155.94	326.2 -> 252...	3083.27	331.2 -> 44.3	3083.27	Norpropoxyphene-D5	331.2 -> 44.3	6.408	138886			
Nortriptyline	264.2 -> 91.2	4/23/2018 6:06 PM	6.664	35361	Infinity	264.2 -> 233...	Infinity	267.2 -> 233...	Infinity	Nortriptyline-D3	267.2 -> 233...	6.642	316027			
Ondansetron	294.2 -> 184...	4/23/2018 6:06 PM	6.313	105598	20630.49	294.2 -> 212...	185.31	289.2 -> 72.3	185.31	Pentazocine-13C3	289.2 -> 72.3	5.885	454331			
Pentazocine	286.2 -> 218...	4/23/2018 6:06 PM	5.885	102256	189.84	286.2 -> 41.3	Infinity	289.2 -> 72.3	Infinity	Pentazocine-13C3	289.2 -> 72.3	5.885	454331			
Phenazepam	349.0 -> 206...	4/23/2018 6:06 PM	6.508	46921	10020.53	349.0 -> 183...	242.21	353.0 -> 183...	242.21	Phenazepam-D4	353.0 -> 183...	6.507	15863			
Phencyclidine	244.2 -> 86.2	4/23/2018 6:06 PM	6.156	198047	513.66	244.2 -> 91.1	137.89	249.2 -> 86.2	137.89	Phencyclidine-D5	249.2 -> 86.2	6.136	977725			
Phenytolol	253.1 -> 104...	4/23/2018 6:06 PM	6.033	7303	11.45	253.1 -> 182...	25.21	263.2 -> 192...	25.21	Phenytolol-D10	263.2 -> 192...	6.013	15874			
Prazepam	325.1 -> 271...	4/23/2018 6:06 PM	6.956	135768	6166.80	325.1 -> 140...	712.65	330.1 -> 276...	712.65	Prazepam-D5	330.1 -> 276...	6.934	582456			
Primidone	219.1 -> 91.2	4/23/2018 6:06 PM	5.385	17697	15.69	219.1 -> 162...	34.01	330.1 -> 276...	34.01	Prazepam-D5	330.1 -> 276...	6.934	582456			
Propoxyphene	340.2 -> 58.3	4/23/2018 6:06 PM	6.712	266857	65.04	340.2 -> 266...	218.96	351.3 -> 277...	218.96	Propoxyphene-D11	351.3 -> 277...	6.629	243663			
Protriptyline	264.2 -> 155...	4/23/2018 6:06 PM	6.522	484129	Infinity	264.2 -> 161...	Infinity	267.2 -> 233...	Infinity	Nortriptyline-D3	267.2 -> 233...	6.642	316027			
Pseudoephedrine	166.1 -> 148...	4/23/2018 6:06 PM	4.763	785324	90.66	166.1 -> 133...	115.60	169.1 -> 151...	115.60	Pseudoephedrine-D3	169.1 -> 151...	4.762	383820			
Tapentadol	222.2 -> 107...	4/23/2018 6:06 PM	5.649	128959	59.75	222.2 -> 121...	Infinity	225.2 -> 107...	Infinity	Tapentadol-D3	225.2 -> 107...	5.629	667228			
Trimipramine	295.2 -> 100...	4/23/2018 6:06 PM	7.024	407638	593.08	295.2 -> 58.3	635.38	298.2 -> 103...	635.38	Trimipramine-D3	298.2 -> 103...	6.982	19191...			
Verapamil	455.3 -> 165...	4/23/2018 6:06 PM	6.727	168953	1134.60	455.3 -> 150...	536.52	298.2 -> 103...	536.52	Trimipramine-D3	298.2 -> 103...	6.982	19191...			
Zaleplon	306.1 -> 236...	4/23/2018 6:06 PM	6.228	51065	263.50	306.1 -> 264...	163.71	310.2 -> 240...	163.71	Zaleplon-D4	310.2 -> 240...	6.228	200143			
Zopiclone	389.1 -> 244...	4/23/2018 6:06 PM	6.445	16410	54.27	389.1 -> 216...	75.12	393.1 -> 244...	75.12	Zopiclone-D4	393.1 -> 244...	6.445	175486			

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Q...	Name	Transition	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	4/23/2018 6:25 PM				284.1 -> 93.2			7-aminoflunitrazepam-D7	291.2 -> 138...	5.679	156673				
alpha-hydroxymidazolam	342.1 -> 324...	4/23/2018 6:25 PM				342.1 -> 203...			alpha-hydroxymidazolam-	346.1 -> 328...	6.468	260784				
Amitriptyline	278.2 -> 91.2	4/23/2018 6:25 PM				278.2 -> 105...			Amitriptyline-D3	281.2 -> 91.2	6.924	274482				
Amoxapine	314.1 -> 271...	4/23/2018 6:25 PM				314.1 -> 193...			Amitriptyline-D3	281.2 -> 91.2	6.924	274482				
Benzoyllecgonine	290.1 -> 168...	4/23/2018 6:25 PM				290.1 -> 105...			Benzoyllecgonine-D8	298.2 -> 171...	5.289	5004				
Carbamazepine	237.1 -> 193...	4/23/2018 6:25 PM				237.1 -> 194...			Carbamazepine-13C6	243.1 -> 200...	6.137	879716				
Chlordiazepoxide	300.1 -> 227...	4/23/2018 6:25 PM				300.1 -> 282...			Chlordiazepoxide-D5	305.1 -> 286...	6.596	210137				
Clomipramine	315.2 -> 86.2	4/23/2018 6:25 PM				315.2 -> 58.3			Clomipramine-D3	318.2 -> 89.2	7.241	11439...				
Cocaine	304.2 -> 182...	4/23/2018 6:25 PM				304.2 -> 105...			Cocaine-D3	307.2 -> 185...	6.024	542997				
Desipramine	267.2 -> 72.3	4/23/2018 6:25 PM				267.2 -> 44.3			Desipramine-D3	270.2 -> 75.3	6.601	896299				
Doxepin	280.2 -> 107...	4/23/2018 6:25 PM				280.2 -> 77.2			Doxepin-D3	283.2 -> 107...	6.599	477956				
Estazolam	295.1 -> 267...	4/23/2018 6:25 PM				295.1 -> 205...			Estazolam-D5	300.1 -> 272...	6.392	235178				
Flunitrazepam	314.1 -> 268...	4/23/2018 6:25 PM				314.1 -> 239...			Flunitrazepam-D7	321.1 -> 245...	6.410	9548				
Flurazepam	388.2 -> 315...	4/23/2018 6:25 PM				388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	6.445	178938				
Imipramine	281.2 -> 86.2	4/23/2018 6:25 PM				281.2 -> 58.3			Imipramine-D3	307.2 -> 61.3	6.578	10464				
Levamisole	205.1 -> 91.2	4/23/2018 6:25 PM				205.1 -> 178...			Cocaine-D3	304.2 -> 185...	6.024	542997				
Maprotiline	278.2 -> 91.2	4/23/2018 6:25 PM				278.2 -> 117...			Meperidine-D4	252.2 -> 224...	6.095	271558				
MDA	180.1 -> 163...	4/23/2018 6:25 PM				180.1 -> 105...			MDA-D5	185.1 -> 168...	5.124	189809				
MDEA	208.1 -> 163...	4/23/2018 6:25 PM				208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.406	360318				
MDMA	194.1 -> 163...	4/23/2018 6:25 PM				194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.264	356650				
Meperidine	248.2 -> 220...	4/23/2018 6:25 PM				248.2 -> 174...			Meperidine-D4	252.2 -> 224...	6.095	271558				
Methylphenidate	234.2 -> 84.2	4/23/2018 6:25 PM				234.2 -> 56.3			Meperidine-D4	252.2 -> 224...	6.095	271558				
Metoprolol	268.2 -> 116...	4/23/2018 6:25 PM				268.2 -> 56.3			Meperidine-D4	252.2 -> 224...	6.095	271558				
Midazolam	326.1 -> 223...	4/23/2018 6:25 PM				326.1 -> 249...			Midazolam-D4	330.1 -> 295...	6.632	281238				
Mirtazapine	266.2 -> 195...	4/23/2018 6:25 PM				266.2 -> 72.3			Midazolam-D4	330.1 -> 295...	6.632	281238				
Mitragynine	399.2 -> 174...	4/23/2018 6:25 PM				399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.137	879716				
Normeperidine	234.1 -> 42.3	4/23/2018 6:25 PM				234.1 -> 160...			Normeperidine-D4	238.2 -> 164...	5.770	188408				
Norpropoxyphene	326.2 -> 44.3	4/23/2018 6:25 PM				326.2 -> 252...			Norpropoxyphene-D5	331.2 -> 44.3	6.429	110520				
Nortriptyline	264.2 -> 91.2	4/23/2018 6:25 PM				264.2 -> 233...			Nortriptyline-D3	267.2 -> 233...	6.642	208474				
Ondansetron	294.2 -> 184...	4/23/2018 6:25 PM				294.2 -> 212...			Pentazocine-13C3	289.2 -> 72.3	5.885	361213				
Pentazocine	286.2 -> 218...	4/23/2018 6:25 PM				286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.885	361213				
Phenazepam	349.0 -> 206...	4/23/2018 6:25 PM				349.0 -> 183...			Phenazepam-D4	353.0 -> 183...	6.507	18386				
Phencyclidine	244.2 -> 86.2	4/23/2018 6:25 PM				244.2 -> 91.1			Phencyclidine-D5	249.2 -> 86.2	6.136	779028				
Phenylethanolamine	253.1 -> 104...	4/23/2018 6:25 PM	6.095	1803	1.96	253.1 -> 182...			Phenylethanolamine-D10	263.2 -> 192	6.013	12931				
Prazepam	325.1 -> 271...	4/23/2018 6:25 PM				325.1 -> 140...			Prazepam-D5	330.1 -> 276...	6.935	462121				
Primidone	219.1 -> 91.2	4/23/2018 6:25 PM	5.527	2107	1.75	219.1 -> 162...			Prazepam-D5	330.1 -> 276...	6.935	462121				
Propoxyphene	340.2 -> 58.3	4/23/2018 6:25 PM				340.2 -> 266...			Propoxyphene-D11	351.3 -> 277...	6.649	193576				
Proprietyline	264.2 -> 155...	4/23/2018 6:25 PM				264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.642	208474				
Pseudoephedrine	166.1 -> 148...	4/23/2018 6:25 PM				166.1 -> 133...			Pseudoephedrine-D3	169.1 -> 151...	4.762	305482				
Tapentadol	222.2 -> 107...	4/23/2018 6:25 PM				222.2 -> 121...			Tapentadol-D3	225.2 -> 107...	5.629	538760				
Trimipramine	295.2 -> 100...	4/23/2018 6:25 PM				295.2 -> 58.3			Trimipramine-D3	298.2 -> 103...	6.982	13076...				
Verapamil	455.3 -> 165...	4/23/2018 6:25 PM				455.3 -> 150...			Trimipramine-D3	298.2 -> 103...	6.982	13076...				
Zaleplon	306.1 -> 236...	4/23/2018 6:25 PM				306.1 -> 264...			Zaleplon-D4	310.2 -> 240...	6.228	173942				
Zopiclone	389.1 -> 244...	4/23/2018 6:25 PM				389.1 -> 216...			Zopiclone-D4	393.1 -> 244...	6.445	178938				

Compound Method		p2 external control		p2 external control Results			Qualifier 1 M...		Qualif...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.	
7-aminoflunitrazepam	284.1 -> 135...	4/23/2018 6:45 PM				284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.679	164214	
alpha-hydroxymidazolam	342.1 -> 324...	4/23/2018 6:45 PM				342.1 -> 203...				alpha-hydroxymidazolam-	346.1 -> 328...	6.468	269535	
Amtriptyline	278.2 -> 91.2	4/23/2018 6:45 PM				278.2 -> 105...				Amtriptyline-D3	281.2 -> 91.2	6.924	370299	
Amoxapine	314.1 -> 271...	4/23/2018 6:45 PM				314.1 -> 193...				Amtriptyline-D3	281.2 -> 91.2	6.924	370299	
Benzoyllecgonine	290.1 -> 168...	4/23/2018 6:45 PM				290.1 -> 105...				Benzoyllecgonine-D8	298.2 -> 171...	5.269	5271	
Carbamazepine	237.1 -> 193...	4/23/2018 6:45 PM				237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.137	930508	
Chlordiazepoxide	300.1 -> 227...	4/23/2018 6:45 PM				300.1 -> 282				Chlordiazepoxide-D5	305.1 -> 286...	6.596	228972	
Ciompriamine	315.2 -> 86.2	4/23/2018 6:45 PM				315.2 -> 58.3				Ciompriamine-D3	318.2 -> 89.2	7.241	14441...	
Cocaine	304.2 -> 182...	4/23/2018 6:45 PM				304.2 -> 105...				Cocaine-D3	307.2 -> 185...	6.024	582946	
Desipramine	267.2 -> 72.3	4/23/2018 6:45 PM				267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.601	11350...	
Doxepin	280.2 -> 107...	4/23/2018 6:45 PM				280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.599	579192	
Estazolam	295.1 -> 267...	4/23/2018 6:45 PM				295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.392	274553	
Flunitrazepam	314.1 -> 268...	4/23/2018 6:45 PM				314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.431	10497	
Flurazepam	388.2 -> 315...	4/23/2018 6:45 PM				388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.445	151387	
Imipramine	281.2 -> 86.2	4/23/2018 6:45 PM				281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.598	12503	
Levamisole	205.1 -> 91.2	4/23/2018 6:45 PM				205.1 -> 178...				Cocaine-D3	307.2 -> 185...	6.024	582946	
Maprotiline	278.2 -> 91.2	4/23/2018 6:45 PM	6.782	2498	0.86	278.2 -> 117...				Meperidine-D4	252.2 -> 224...	6.095	301600	
MDEA	180.1 -> 163...	4/23/2018 6:45 PM				180.1 -> 105...				MDA-D5	185.1 -> 168...	5.124	206612	
MDEA	208.1 -> 163...	4/23/2018 6:45 PM				208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.406	397410	
MDMA	194.1 -> 163...	4/23/2018 6:45 PM				194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.264	36194	
Meperidine	248.2 -> 220...	4/23/2018 6:45 PM				248.2 -> 174...				Meperidine-D4	252.2 -> 224...	6.095	301600	
Methylphenidate	234.2 -> 84.2	4/23/2018 6:45 PM				234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	6.095	301600	
Metoprolol	268.2 -> 116...	4/23/2018 6:45 PM				268.2 -> 56.3				Meperidine-D4	252.2 -> 224...	6.095	301600	
Midazolam	326.1 -> 223...	4/23/2018 6:45 PM				326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.632	284799	
Mirtazapine	266.2 -> 195...	4/23/2018 6:45 PM				266.2 -> 72.3				Midazolam-D4	330.1 -> 295...	6.632	284799	
Mitragynine	399.2 -> 174...	4/23/2018 6:45 PM				399.2 -> 238...				Carbamazepine-13C6	243.1 -> 200...	6.137	930508	
Normeperidine	234.1 -> 42.3	4/23/2018 6:45 PM				234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.770	196113	
Norpropoxyphene	326.2 -> 44.3	4/23/2018 6:45 PM				326.2 -> 252...				Norpropoxyphene-D5	331.2 -> 44.3	6.429	128021	
Nontriptyline	264.2 -> 91.2	4/23/2018 6:45 PM	6.664	769760	Infinity	264.2 -> 233...	Infinity			Nontriptyline-D3	267.2 -> 233...	6.642	270217	
Ondansetron	294.2 -> 184...	4/23/2018 6:45 PM				294.2 -> 212...				Pentazocine-13C3	289.2 -> 72.3	5.885	423641	
Pentazocine	286.2 -> 218...	4/23/2018 6:45 PM				286.2 -> 41.3				Pentazocine-13C3	289.2 -> 72.3	5.885	423641	
Phenazepam	349.0 -> 206...	4/23/2018 6:45 PM				349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.507	18705	
Phencyclidine	244.2 -> 86.2	4/23/2018 6:45 PM				244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	6.136	841728	
Phenylethylamine	253.1 -> 104...	4/23/2018 6:45 PM	6.074	2159	3.64	253.1 -> 182...				Phenylethylamine-D10	263.2 -> 192...	6.013	15769	
Praxepam	325.1 -> 271...	4/23/2018 6:45 PM	5.548	2020	2.88	325.1 -> 140...				Praxepam-D5	330.1 -> 276...	6.934	509604	
Primidone	219.1 -> 91.2	4/23/2018 6:45 PM				219.1 -> 162...				Praxepam-D5	330.1 -> 276...	6.934	509604	
Propoxyphene	340.2 -> 58.3	4/23/2018 6:45 PM				340.2 -> 266...				Propoxyphene-D11	351.3 -> 277...	6.649	226779	
Protriptyline	264.2 -> 155...	4/23/2018 6:45 PM				264.2 -> 161...				Protriptyline-D3	267.2 -> 233...	6.642	270217	
Pseudoephedrine	166.1 -> 148...	4/23/2018 6:45 PM				166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.762	346182	
Tapentadol	222.2 -> 107...	4/23/2018 6:45 PM				222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.629	609264	
Trimipramine	295.2 -> 100...	4/23/2018 6:45 PM				295.2 -> 58.3				Trimipramine-D3	298.2 -> 103...	7.002	16533...	
Verapamil	455.3 -> 165...	4/23/2018 6:45 PM				455.3 -> 150...				Trimipramine-D3	298.2 -> 103...	7.002	16533...	
Zaleplon	306.1 -> 236...	4/23/2018 6:45 PM				306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.228	188895	
Zopiclone	389.1 -> 244...	4/23/2018 6:45 PM				389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.445	151387	

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

Extraction Date: 4-23-18

Analyst: Anne Nord

Plate lot#: 0515037

Plate Expiration: 9/28/2018

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: 17J20718

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: k52558** 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. 4 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.
Worklist path: 042318 blood screen Am05-26 Batch Name: 42318 can screen
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/- 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:

ISP FORENSICS - Cd'A Instrument #62340

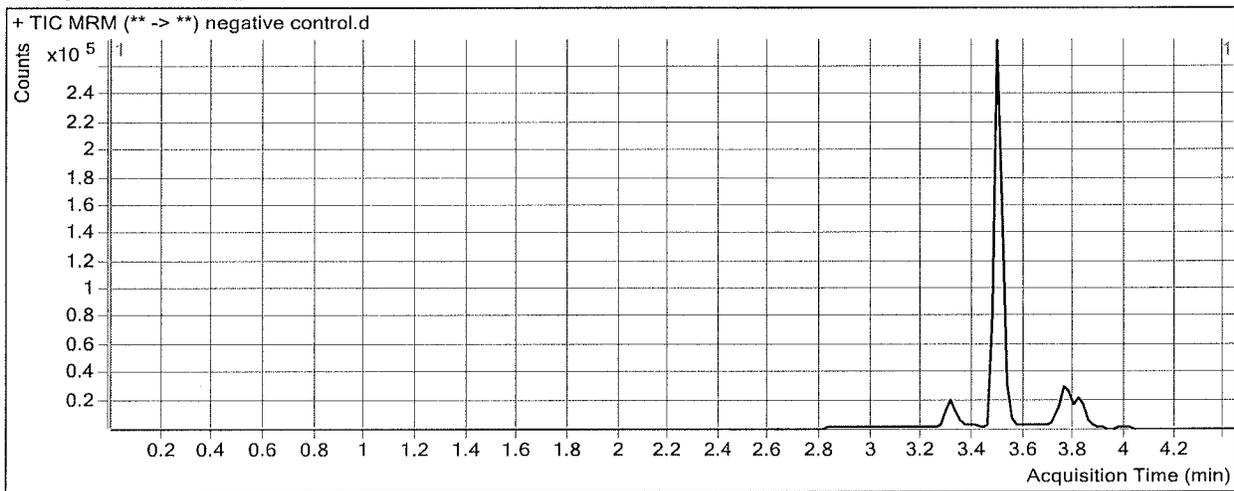
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 16:11 **Data File** negative control.d
Sample Type Sample **Sample Name** negative control
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H5 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.306	2900	61083	0.0475	0.0000

ISP FORENSICS - Cd'A Instrument #62340

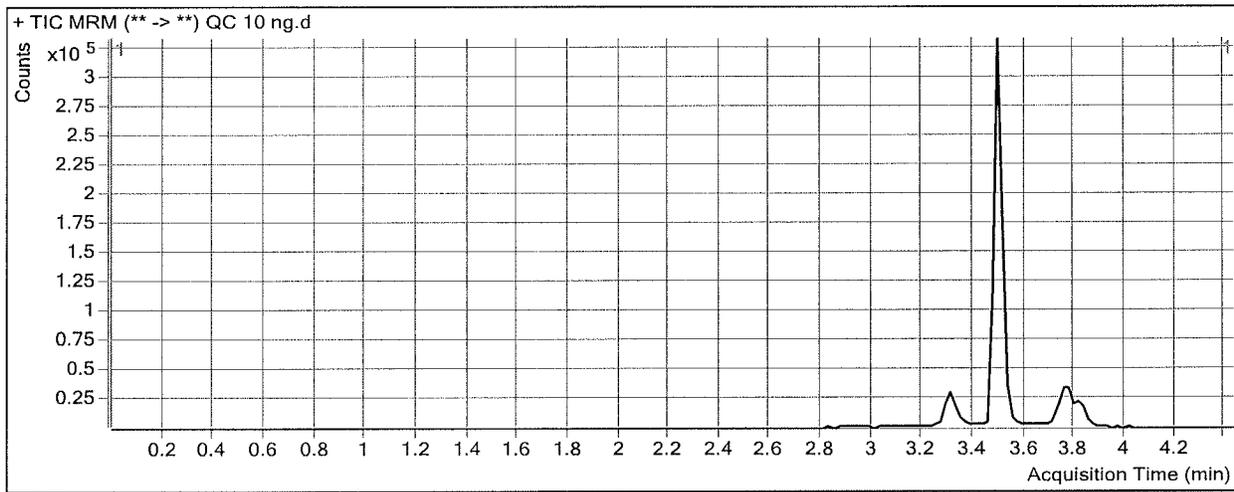
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 15:26 **Data File** QC 10 ng.d
Sample Type QC **Sample Name** QC 10 ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.306	23425	68697	0.3410	13.2640
THC-OH	3.493	68783	712961	0.0965	9.6677
THC	3.820	4868	42198	0.1154	9.9198

ISP Forensics Calibration Curve Report

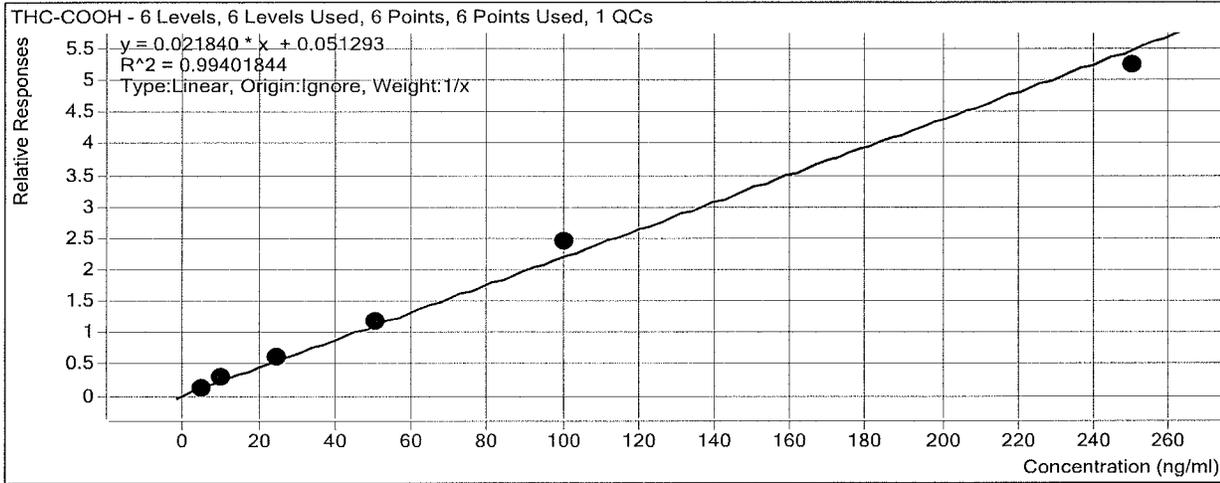
Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin

Last Calib Update 4/24/2018 9:11 AM

Analyst Name ISP TOX

Target Compound *THC-COOH*

Internal Standard *THC-COOH-d9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.0	80.6
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.7	107.2
QC 10 ng	3	<input checked="" type="checkbox"/>	10	13.3	132.6
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	26.1	104.3
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	51.2	102.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	110.6	110.6
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	237.4	95.0

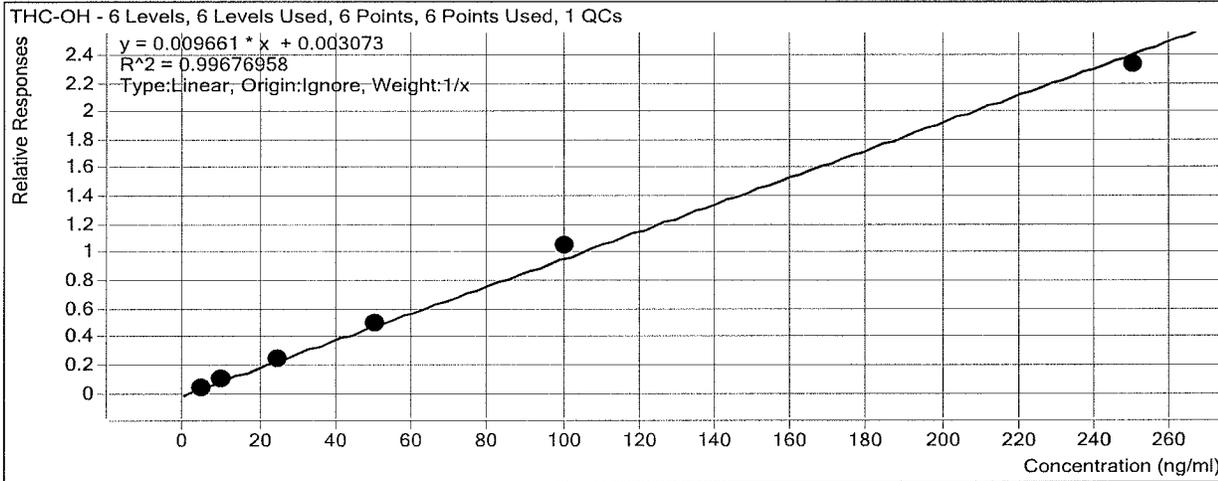
ISP Forensics Calibration Curve Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin

Last Calib Update 4/24/2018 9:11 AM

Analyst Name ISP TOX

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



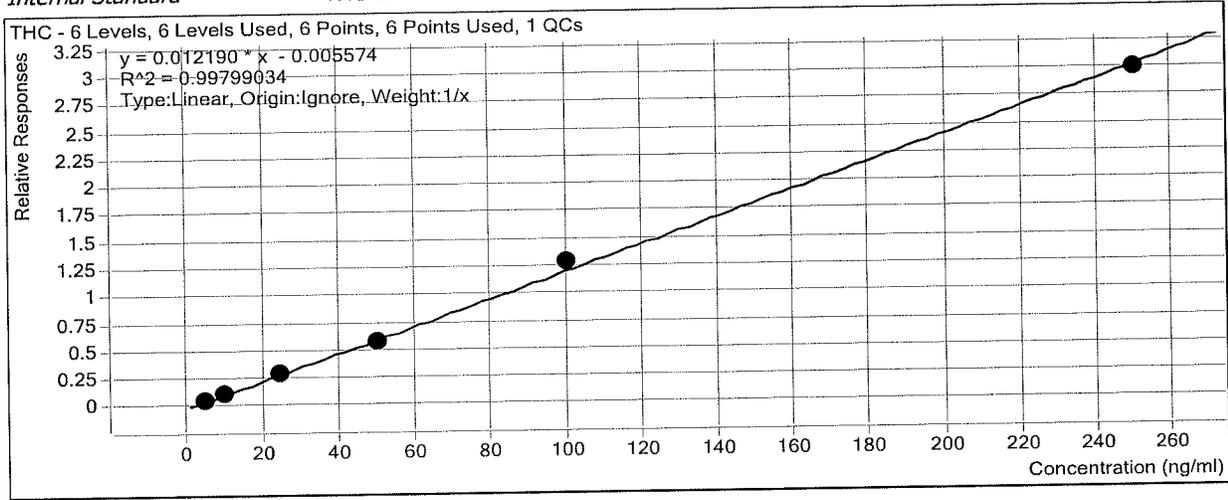
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.6	92.8
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.9	99.3
QC 10 ng	3	<input checked="" type="checkbox"/>	10	9.7	96.7
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.4	101.7
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	50.7	101.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	108.5	108.5
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	240.8	96.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin

Last Calib Update 4/24/2018 9:11 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.3	106.4
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.6	96.0
QC 10 ng	3	<input checked="" type="checkbox"/>	10	9.9	99.2
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	23.8	95.4
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.5	97.0
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	107.0	107.0
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	245.8	98.3

ISP FORENSICS - Cd'A Instrument #62340

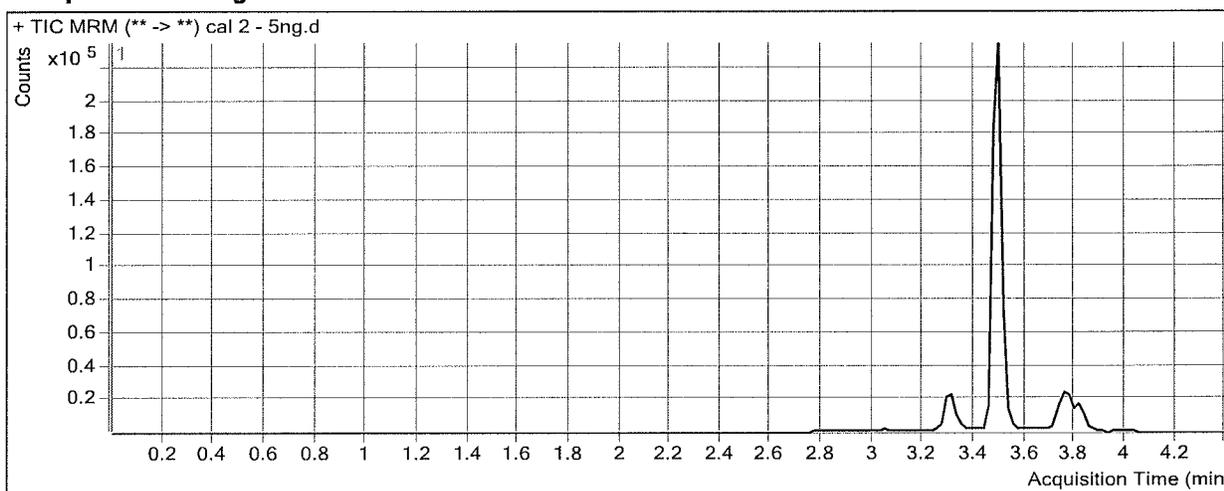
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 14:33 **Data File** cal 2 - 5ng.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
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	3.306	7735	55523	0.1393	4.0303
THC-OH	3.493	27744	579378	0.0479	4.6385
THC	3.820	1910	32232	0.0593	5.3180

ISP FORENSICS - Cd'A Instrument #62340

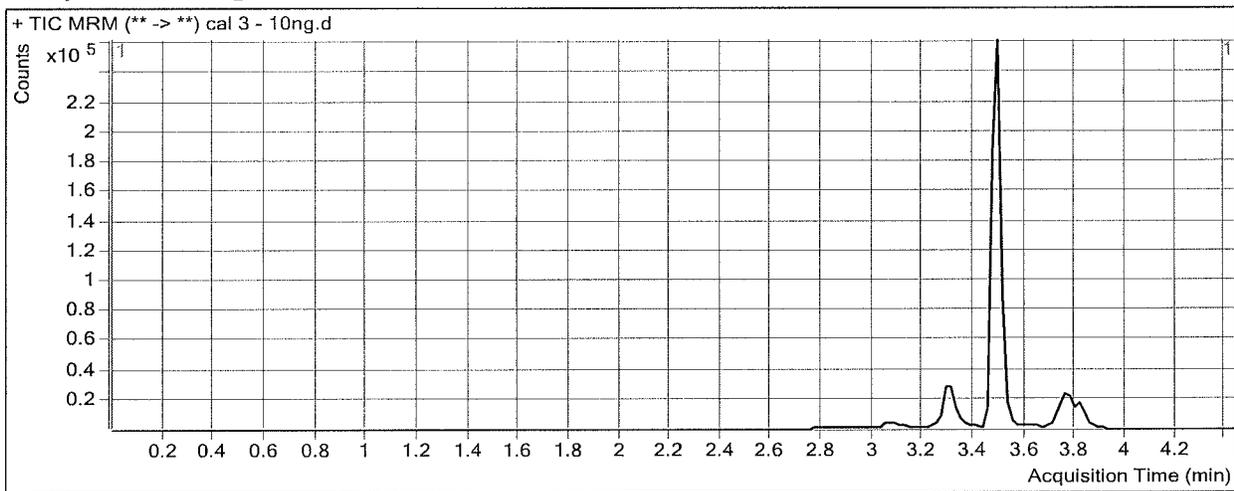
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 14:40 **Data File** cal 3 - 10ng.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
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	3.306	19765	69244	0.2854	10.7208
THC-OH	3.493	61036	616347	0.0990	9.9320
THC	3.820	3502	31418	0.1115	9.5999

ISP FORENSICS - Cd'A Instrument #62340

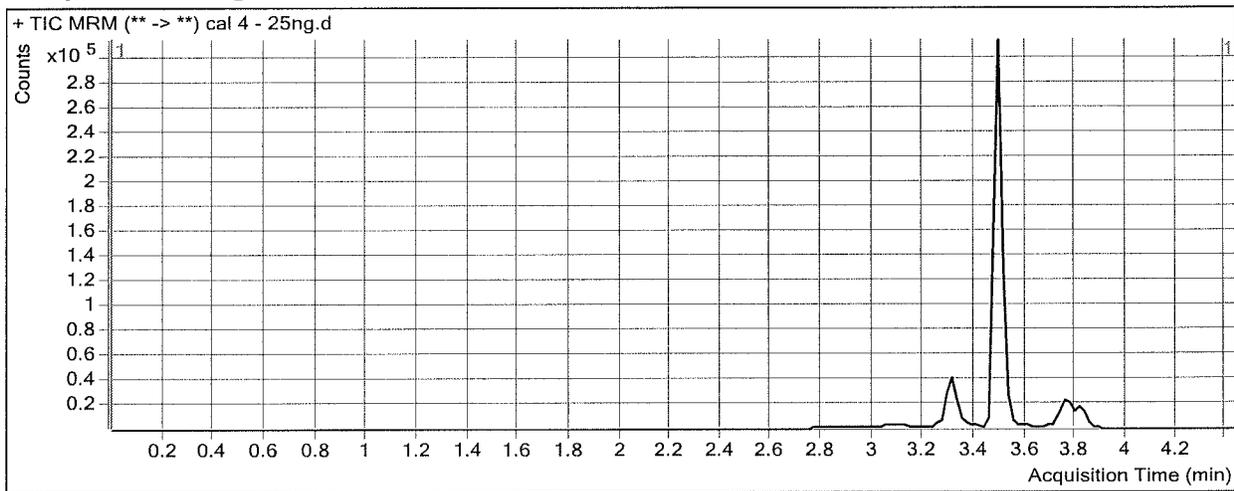
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 14:46 **Data File** cal 4 - 25ng.d
Sample Type Calibration **Sample Name** cal 4 - 25ng
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	3.306	40923	65951	0.6205	26.0628
THC-OH	3.493	149533	601465	0.2486	25.4151
THC	3.820	8333	29234	0.2850	23.8384

ISP FORENSICS - Cd'A Instrument #62340

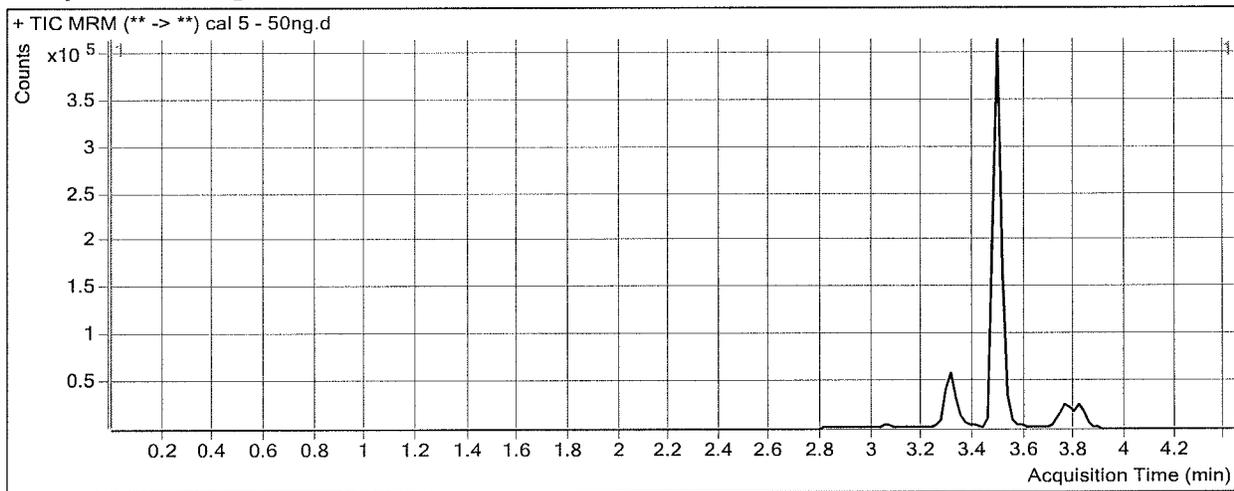
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 14:53 **Data File** cal 5 - 50ng.d
Sample Type Calibration **Sample Name** cal 5 - 50ng
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	3.306	80742	69047	1.1694	51.1930
THC-OH	3.493	320723	650704	0.4929	50.6989
THC	3.820	19110	32625	0.5857	48.5055

ISP FORENSICS - Cd'A Instrument #62340

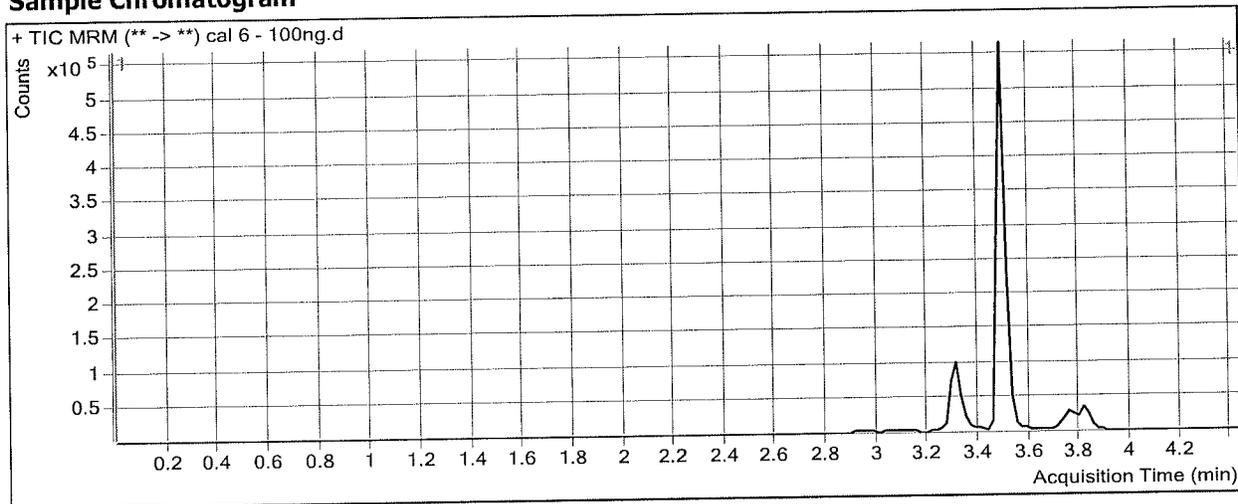
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM Analyst Name ISP Tox
Report Time 4/24/2018 2:48 PM Reporter Name ISP Tox
Last Calib Update 4/24/2018 9:11 AM Batch State Processed

Analysis Info

Acq Time 2018-04-23 14:59 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-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	3.306	172598	69976	2.4665	110.5856
THC-OH	3.493	677512	644178	1.0517	108.5445
THC	3.820	41858	32237	1.2984	106.9693

ISP FORENSICS - Cd'A Instrument #62340

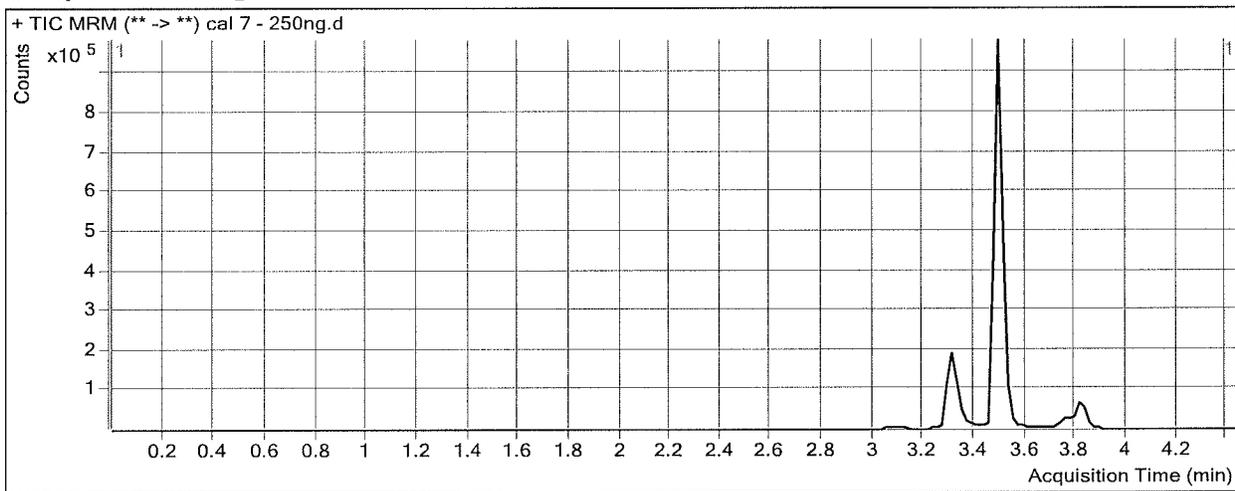
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\04232018 blood screen AM 25-26\QuantResults\042318 cann screen.batch.bin
Analysis Time 4/24/2018 9:11 AM **Analyst Name** ISP Tox
Report Time 4/24/2018 2:48 PM **Reporter Name** ISP Tox
Last Calib Update 4/24/2018 9:11 AM **Batch State** Processed

Analysis Info

Acq Time 2018-04-23 15:13 **Data File** cal 7 - 250ng.d
Sample Type Calibration **Sample Name** cal 7 - 250ng
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	3.306	377736	72137	5.2364	237.4075
THC-OH	3.493	1573820	675685	2.3292	240.7711
THC	3.820	107808	36050	2.9905	245.7690