

*Bylee*

**Worklist: 1783**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1110	1	86440	AM 25/AM 26 Blood MultiDrug/	
C2017-1175	1	87032	AM 25/AM 26 Blood MultiDrug/	
C2017-1190	1	87106	AM 25/AM 26 Blood MultiDrug/	
C2017-1192	1	87111	AM 25/AM 26 Blood MultiDrug/	
C2017-1193	1	87113	AM 25/AM 26 Blood MultiDrug/	
C2017-1195	1	87160	AM 25/AM 26 Blood MultiDrug/	
C2017-1202	1	87171	AM 25/AM 26 Blood MultiDrug/	
C2017-1221	1	87409	AM 25/AM 26 Blood MultiDrug/	
C2017-1225	1	87418	AM 25/AM 26 Blood MultiDrug/	
C2017-1256	1	87945	AM 25/AM 26 Blood MultiDrug/	
C2017-1257	1	87949	AM 25/AM 26 Blood MultiDrug/	
C2017-1258	1	87954	AM 25/AM 26 Blood MultiDrug/	
C2017-1259	1	87959	AM 25/AM 26 Blood MultiDrug/	
C2017-1265	1	88013	AM 25/AM 26 Blood MultiDrug/	
C2017-1266	1	88015	AM 25/AM 26 Blood MultiDrug/	
C2017-1267	1	88017	AM 25/AM 26 Blood MultiDrug/	
C2017-1268	1	88019	AM 25/AM 26 Blood MultiDrug/	
C2017-1270	1	88025	AM 25/AM 26 Blood MultiDrug/	
C2017-1277	1	88264	AM 25/AM 26 Blood MultiDrug/	
C2017-1277	2	88263	AM 25/AM 26 Blood MultiDrug/	
M2017-2135	1	87008	AM 25/AM 26 Blood MultiDrug/	
M2017-2148	1	86955	AM 25/AM 26 Blood MultiDrug/	
M2017-2347	1	87353	AM 25/AM 26 Blood MultiDrug/	

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**Worklist: 1783**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2017-2407	1	87158	AM 25/AM 26 Blood MultiDrug/	
M2017-2603	2	88011	AM 25/AM 26 Blood MultiDrug/	
P2017-0997	1	87011	AM 25/AM 26 Blood MultiDrug/	
P2017-1052	1	88385	AM 25/AM 26 Blood MultiDrug/	
P2017-1057	1	87010	AM 25/AM 26 Blood MultiDrug/	
P2017-1254	1	86953	AM 25/AM 26 Blood MultiDrug/	
P2017-1258	1	86951	AM 25/AM 26 Blood MultiDrug/	



# Multi-Drug Screen in Blood by LC-MS/MS

Extraction Date: 6-27-17

Analyst: Anne Ward

## PRE-ANALYTIC

Plate Lot# 0495940

Plate. Exp. 12/12/2017

1. Ensure all solutions are within expiration date.

- Mobile Phase A: **10mM Amm Formate**
- Mobile Phase B **0.1% FA in MeOH**
- Blank/Negative Blood: Lot **321623-1**
- **0.5M Ammonium Hydroxide**
- Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
- **Ethyl Acetate**

✓ 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.

✓ 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.

✓ 4. Create worklist. Data path name: 6-27-17 AM<sup>+</sup> blood screen AM 25-26

## ANALYTIC

✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.

✓ 2. Pipette **250µL blood (calibrated pipette)** 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 **250µL 0.5M ammonium hydroxide** buffer 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. 4 seconds (or until no liquid remains on top of sorbent).

*(Load at 85-100 PSI- Selector to the right) Manifold ID 66729*

✓ Wait 5 min.

✓ 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.

✓ 9. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*

✓ 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.

✓ 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*

✓ 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID 66819*

✓ 13. Reconstitute in **100µL 100% 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: 62712 mds a

✓ 2. Make any necessary integration changes.

✓ 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. > 1/5 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:

Toxicology AM method 25 external prep information

working solution 10000 ng/ml in meoh mirtazapine, amitriptyline, codeine, diphenhydramine, 20000 ng/ml meoh morphine

Stock solution 1mg/ml 100 ul each for all except morphine 200 ul in 9400 ul meoh

Ppd 3/31/17 Exp: 9/21/17 lot 92117

Drug	lot	expiration
Morphine	fe08141515	11/1/2020
mirtazapine	fe04201503	4/1/2020
amitriptyline	fn07081401	9/1/2019
codeine	fe10271401	11/1/2019
diphenhydramine	fn09161502	9/1/2020

AM 25 control 100 ul working solution in 9900 ul blood lot 62117

ppd 3/21/17 Exp 6/21/17 by AMN

Concentration 100ng/ml amitriptyline, codeine, diphenhydramine, mirtazapine  
200/ng/ml morphine

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PPD 6-26-17 Exp 9-21-17 by AMN lot 92117

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Compound Method			p1 cal 1a				p1 cal 1a Results				Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	M/I	S/N	Transition	M/I	S/N	Transition	M/I	S/N	M/I	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	6/27/2017 3:2...	5.666	1047		13.45	328.2 -> 211...		14.88	328.2 -> 165...		14.88	328.2 -> 211...	6-MAM-D6	334.2 -> 165...	5.604	47226				
7-aminoclonazepam	286.1 -> 121...	6/27/2017 3:2...	5.652	38721		50.71	286.1 -> 222...		387.29	286.1 -> 222...		387.29	286.1 -> 222...	7-Aminoclonazepam-D4	290.1 -> 121...	5.631	161256				
Acetyl Fentanyl	323.2 -> 105...	6/27/2017 3:2...	6.461	6376		Infinity	323.2 -> 188...		Infinity	323.2 -> 188...		Infinity	323.2 -> 188...	Acetyl Fentanyl-D5	328.2 -> 105...	6.459	709498				
Acetyl Norfentanyl	219.1 -> 84.2...	6/27/2017 3:2...	5.172	9279		22.64	219.1 -> 56.3...		11.32	219.1 -> 56.3...		11.32	219.1 -> 56.3...	Acetyl Norfentanyl-D5	224.2 -> 84.2...	5.172	477910				
a-hydroxylprazolam	325.1 -> 297...	6/27/2017 3:2...	6.460	11580		215.49	325.1 -> 215...		38.05	325.1 -> 215...		38.05	325.1 -> 215...	a-hydroxylprazolam-D5	330.1 -> 302...	6.438	501778				
alpha-PVP	232.2 -> 91.0...	6/27/2017 3:2...	6.108	158705		Infinity	232.2 -> 77.1...		33.31	232.2 -> 77.1...		33.31	232.2 -> 77.1...	alpha-PVP-d8	240.2 -> 91.1...	6.046	684058				
Alprazolam	309.1 -> 281...	6/27/2017 3:2...	6.546	59146		195.16	309.1 -> 205...		774.77	309.1 -> 205...		774.77	309.1 -> 205...	Alprazolam-D5	314.1 -> 286...	6.524	227484				
Amphetamine	136.1 -> 91.1...	6/27/2017 3:2...	5.134	180018		12.23	136.1 -> 119...		18.68	136.1 -> 119...		18.68	136.1 -> 119...	Amphetamine-D11	147.2 -> 130...	5.113	122053				
Bupropion	240.1 -> 184...	6/27/2017 3:2...	6.291	151388		109.50	240.1 -> 131...		64.28	240.1 -> 131...		64.28	240.1 -> 131...	Bupropion-D9	249.2 -> 185...	6.270	629806				
Carisoprodol	261.2 -> 176...	6/27/2017 3:2...	6.187	71199		35.79	261.2 -> 55.3...		19.38	261.2 -> 55.3...		19.38	261.2 -> 55.3...	Carisoprodol-D7	268.2 -> 183...	6.187	441922				
Citalopram	325.2 -> 109...	6/27/2017 3:2...	6.338	199324		88.68	325.2 -> 262...		528.16	325.2 -> 262...		528.16	325.2 -> 262...	Citalopram-D6	331.2 -> 109...	6.316	878380				
Clonazepam	316.1 -> 269...	6/27/2017 3:2...	6.401	21149		37.82	316.1 -> 213...		101.03	316.1 -> 213...		101.03	316.1 -> 213...	Clonazepam-D4	320.1 -> 217...	6.380	24426				
Codeine	300.2 -> 215...	6/27/2017 3:2...	5.671	12094		73.01	300.2 -> 165...		1473.47	300.2 -> 165...		1473.47	300.2 -> 165...	Codeine-D6	306.2 -> 218...	5.609	39439				
Cyclobenzaprine	276.2 -> 214...	6/27/2017 3:2...	6.693	129436		458.79	276.2 -> 231...		87.89	276.2 -> 231...		87.89	276.2 -> 231...	Cyclobenzaprine-D3	279.2 -> 215...	6.692	564092				
Dextromethorphan	272.2 -> 171...	6/27/2017 3:2...	6.451	58310		178.51	272.2 -> 147...		155.03	272.2 -> 147...		155.03	272.2 -> 147...	Dextromethorphan-D3	275.2 -> 171...	6.451	259250				
Dextropropofol	258.2 -> 157...	6/27/2017 3:2...	5.760	43386		123.36	258.2 -> 133...		556.30	258.2 -> 133...		556.30	258.2 -> 133...	Dextropropofol-D3	261.2 -> 157...	5.759	224289				
Diazepam	285.1 -> 193...	6/27/2017 3:2...	6.752	43120		41.47	285.1 -> 153...		25.27	285.1 -> 153...		25.27	285.1 -> 153...	Diazepam-D5	290.1 -> 198...	6.730	163955				
Dihydrocodeine	302.2 -> 198...	6/27/2017 3:2...	5.405	25096		Infinity	302.2 -> 128...		Infinity	302.2 -> 128...		Infinity	302.2 -> 128...	Dihydrocodeine-D6	308.2 -> 202...	5.343	132103				
Diphenhydramine	256.2 -> 167...	6/27/2017 3:2...	6.351	305816		127.99	256.2 -> 152...		114.66	256.2 -> 152...		114.66	256.2 -> 152...	Diphenhydramine-D3	259.2 -> 167...	6.330	161119...				
Doxylamine	271.2 -> 182...	6/27/2017 3:2...	5.982	294833		75.77	271.2 -> 167...		75.58	271.2 -> 167...		75.58	271.2 -> 167...	Doxylamine-D5	276.2 -> 187...	5.980	143566...				
EDDP	279.2 -> 235...	6/27/2017 3:2...	6.306	159152		70.37	279.2 -> 250...		3443.40	279.2 -> 250...		3443.40	279.2 -> 250...	EDDP-D3	282.2 -> 235...	6.286	67879				
Fentanyl	337.2 -> 105...	6/27/2017 3:2...	6.640	28442		17.65	337.2 -> 188...		5975.78	337.2 -> 188...		5975.78	337.2 -> 188...	Fentanyl-D5	342.3 -> 105...	6.619	10705...				
Fluoxetine	310.1 -> 44.3...	6/27/2017 3:2...	6.505	232059		129.33	310.1 -> 148...		14.63	310.1 -> 148...		14.63	310.1 -> 148...	Fluoxetine-D6	316.2 -> 44.3...	6.503	968955				
Hydrocodone	300.2 -> 198...	6/27/2017 3:2...	5.855	37400		Infinity	300.2 -> 128...		46.91	300.2 -> 128...		46.91	300.2 -> 128...	Hydrocodone-D6	306.2 -> 202...	5.814	204852				
Hydromorphone	286.2 -> 184...	6/27/2017 3:2...	5.305	22516		Infinity	286.2 -> 157...		17.41	286.2 -> 157...		17.41	286.2 -> 157...	Hydromorphone-D6	292.2 -> 185...	5.244	81224				
Ketamine	238.1 -> 125...	6/27/2017 3:2...	6.250	26016		541.61	238.1 -> 220...		Infinity	238.1 -> 220...		Infinity	238.1 -> 220...	Ketamine-D4	242.1 -> 129...	6.249	178175				
Meprobamate	219.1 -> 158...	6/27/2017 3:2...	5.722	20126		11.12	219.1 -> 97.1...		8.32	219.1 -> 97.1...		8.32	219.1 -> 97.1...	Meprobamate-D7	226.2 -> 165...	5.701	103415				
Methadone	310.2 -> 265...	6/27/2017 3:2...	6.626	237755		68.21	310.2 -> 105...		85.16	310.2 -> 105...		85.16	310.2 -> 105...	Methadone-D9	319.3 -> 268...	6.604	11708...				
Methamphetamine	150.1 -> 91.1...	6/27/2017 3:2...	5.356	349860		Infinity	150.1 -> 119...		15.27	150.1 -> 119...		15.27	150.1 -> 119...	Methamphetamine-D11	161.2 -> 97.1...	5.294	318698				
Morphine	286.2 -> 201...	6/27/2017 3:2...	5.123	5481		10.42	286.2 -> 165...		55.49	286.2 -> 165...		55.49	286.2 -> 165...	Morphine-D6	292.2 -> 152...	5.020	6776				
Naloxone	328.2 -> 309...	6/27/2017 3:2...	6.133	57896		114.48	328.2 -> 211...		79.51	328.2 -> 211...		79.51	328.2 -> 211...	Naloxone-D5	333.2 -> 315...	6.052	329044				
Naltrexol	344.2 -> 326...	6/27/2017 3:2...	5.440	96182		388.21	344.2 -> 308...		53.14	344.2 -> 308...		53.14	344.2 -> 308...	Naltrexol-D3	347.2 -> 329...	5.399	348791				
Naltrexone	342.2 -> 324...	6/27/2017 3:2...	5.319	57		0.42	342.2 -> 55.3...			342.2 -> 55.3...			342.2 -> 55.3...	Naltrexone-D3	345.2 -> 327...	5.440	14996				
Norbuprenorphine	414.3 -> 101...	6/27/2017 3:2...	6.151	7854		33.89	414.3 -> 57.3...		7.91	414.3 -> 57.3...		7.91	414.3 -> 57.3...	Norbuprenorphine-D3	417.3 -> 101...	6.150	31812				
Nordiazepam	271.1 -> 140...	6/27/2017 3:2...	6.614	24607		46.74	271.1 -> 208...		Infinity	271.1 -> 208...		Infinity	271.1 -> 208...	Nordiazepam-D5	276.1 -> 140...	6.613	72692				
Norfentanyl	233.2 -> 84.2...	6/27/2017 3:2...	5.619	133535		1776.82	233.2 -> 55.3...		16.40	233.2 -> 55.3...		16.40	233.2 -> 55.3...	Norfentanyl-D5	289.2 -> 84.2...	5.598	556064				
Norhydrocodone	286.2 -> 199...	6/27/2017 3:2...	5.305	3716		Infinity	286.2 -> 171...		8.24	286.2 -> 171...		8.24	286.2 -> 171...	Norhydrocodone-D3	288.2 -> 202...	5.305	66513				
Noroxycodone	302.1 -> 284...	6/27/2017 3:2...	5.222	38144		16.05	302.1 -> 186...		71.61	302.1 -> 186...		71.61	302.1 -> 186...	Noroxycodone-D3	305.2 -> 287...	5.201	163501				
O-desmethyl-tramadol	250.2 -> 58.3...	6/27/2017 3:2...	5.229	179542		183.40	250.2 -> 42.3...		144.83	250.2 -> 42.3...		144.83	250.2 -> 42.3...	O-desmethyl-tramadol...	256.2 -> 64.3...	5.208	792286				
Oxazepam	287.1 -> 240...	6/27/2017 3:2...	6.447	21251		110.96	287.1 -> 268...		7.40	287.1 -> 268...		7.40	287.1 -> 268...	Oxazepam-D5	292.1 -> 246...	6.447	96032				
Oxycodone	316.2 -> 298...	6/27/2017 3:2...	5.566	61186		109.25	316.2 -> 241...		Infinity	316.2 -> 241...		Infinity	316.2 -> 241...	Oxycodone-D6	322.2 -> 304...	5.525	300404				
Oxymorphone	302.1 -> 284...	6/27/2017 3:2...	4.957	67289		Infinity	302.1 -> 227...		6158.85	302.1 -> 227...		6158.85	302.1 -> 227...	Oxymorphone-D3	305.2 -> 287...	4.916	282226				
Penthermine	150.1 -> 65.2...	6/27/2017 3:2...	5.356	140778		Infinity	150.1 -> 133...			150.1 -> 133...			150.1 -> 133...	Penthermine-D5	155.2 -> 96.2...	5.417	313380				
Promethazine	285.1 -> 86.2...	6/27/2017 3:2...	6.833	436725		550.49	285.1 -> 71.3...		Infinity	285.1 -> 71.3...		Infinity	285.1 -> 71.3...	Promethazine-D3	288.2 -> 89.2...	6.792	21659...				
Quetiapine	384.2 -> 253...	6/27/2017 3:2...	6.780	289106		2693.18	384.2 -> 221...		605.30	384.2 -> 221...		605.30	384.2 -> 221...	Quetiapine-D8	392.2 -> 226...	6.759	363095				
Sertraline	306.1 -> 158...	6/27/2017 3:2...	6.870	61530		163.87	306.1 -> 275...		10091....	306.1 -> 275...		10091....	306.1 -> 275...	Sertraline-D3	309.1 -> 275...	6.849	298265				
Sufentanil	387.2 -> 238...	6/27/2017 3:2...	6.981	29589		262.98	387.2 -> 111...		77.95	387.2 -> 111...		77.95	387.2 -> 111...	Sufentanil-D5	392.2 -> 238...	6.961	10486...				

Not evaluated

Peak shape ok

Compound Method		p1 cal 1a			p1 cal 1a Results			Qualifier 1 M...		Qualifier 1 R...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.		
Temazepam	301.1 -> 255...	6/27/2017 3:2...	6.588	87816	<input type="checkbox"/>	54.93	301.1 -> 283...	<input type="checkbox"/>	10.91	Temazepam-D5	306.1 -> 260...	6.588	417496		
Tramadol	264.2 -> 58.3	6/27/2017 3:2...	5.759	234857	<input type="checkbox"/>	140.90	264.2 -> 43.3	<input type="checkbox"/>	5.88	Tramadol-13C-D3	268.2 -> 58.3	5.759	10594...		
Trazodone	372.2 -> 176...	6/27/2017 3:2...	6.923	303453	<input type="checkbox"/>	449.85	372.2 -> 148...	<input type="checkbox"/>	237.04	Trazodone-D6	378.2 -> 182...	6.922	12820...		
Venlafaxine	278.2 -> 58.3	6/27/2017 3:2...	6.082	234134	<input type="checkbox"/>	165.61	278.2 -> 260...	<input type="checkbox"/>	24.34	Venlafaxine-D6	284.2 -> 64.3	6.061	10664...		
Zolpidem	308.2 -> 235...	6/27/2017 3:2...	6.486	268042	<input type="checkbox"/>	494.01	308.2 -> 263...	<input type="checkbox"/>	Infinity	Zolpidem-D6	314.2 -> 235...	6.484	12244...		

Compound Method			p1 negative				p1 negative Results				Qualifier 1 M...				ISTD Method				ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.				
6-MAM	328.2 -> 165...	6/27/2017 3:45 PM					328.2 -> 211...			286.1 -> 222...			6-MAM-D6	334.2 -> 165...	5.625	54536				
7-aminoclonazepam	286.1 -> 121...	6/27/2017 3:45 PM					286.1 -> 222...			286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.631	171237				
Acetyl Fentanyl	323.2 -> 105...	6/27/2017 3:45 PM					323.2 -> 188...			323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	6.459	435705				
Acetyl Norfentanyl	219.1 -> 84.2	6/27/2017 3:45 PM	5.416	94		1.41	219.1 -> 56.3			219.1 -> 56.3		0.41	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.151	516034				
a-hydroxylprazosolam	325.1 -> 297...	6/27/2017 3:45 PM	6.521	387		1.53	325.1 -> 215...			325.1 -> 215...		1.84	a-hydroxylprazosolam-D5	330.1 -> 302...	6.459	56072				
alpha-PVP	232.2 -> 91.0	6/27/2017 3:45 PM	6.088	1139		2.76	232.2 -> 77.1			232.2 -> 77.1			alpha-PVP-d8	240.2 -> 91.1	6.046	689591				
Alprazolam	309.1 -> 281...	6/27/2017 3:45 PM	6.403	3714		37.17	309.1 -> 205...			309.1 -> 205...		0.46	Alprazolam-D5	314.1 -> 286...	6.545	278132				
Amphetamine	136.1 -> 91.1	6/27/2017 3:45 PM	5.053	56439		7.07	136.1 -> 119...			136.1 -> 119...		1.38	Amphetamine-D11	147.2 -> 130...	5.073	117191				
Bupropion	240.1 -> 184...	6/27/2017 3:45 PM	6.392	1089		0.53	240.1 -> 131...			240.1 -> 131...		1.82	Bupropion-D9	249.2 -> 185...	6.270	607977				
Carisoprodol	261.2 -> 176...	6/27/2017 3:45 PM	6.248	1213		0.54	261.2 -> 55.3			261.2 -> 55.3		0.47	Carisoprodol-D7	268.2 -> 183...	6.187	467016				
Citalopram	325.2 -> 109...	6/27/2017 3:45 PM					325.2 -> 262...			325.2 -> 262...			Citalopram-D6	331.2 -> 109...	6.316	10238...				
Clonazepam	316.1 -> 269...	6/27/2017 3:45 PM	6.564	365		0.66	316.1 -> 213...			316.1 -> 213...			Clonazepam-D4	320.1 -> 217...	6.401	32215				
Codeine	300.2 -> 215...	6/27/2017 3:45 PM					300.2 -> 165...			300.2 -> 165...			Codeine-D6	306.2 -> 218...	5.609	41437				
Cyclobenzaprine	276.2 -> 214...	6/27/2017 3:45 PM	6.653	368		0.51	276.2 -> 211...			276.2 -> 211...		0.80	Cyclobenzaprine-D3	279.2 -> 215...	6.693	681942				
Dextromethorphan	272.2 -> 171...	6/27/2017 3:45 PM	6.654	61		0.72	272.2 -> 147...			272.2 -> 147...		0.71	Dextromethorphan-D3	275.2 -> 171...	6.451	306623				
Dextropropion	258.2 -> 157...	6/27/2017 3:45 PM	6.045	316		1.81	258.2 -> 133...			258.2 -> 133...		0.82	Dextropropion-D3	261.2 -> 157...	5.759	220222				
Diazepam	285.1 -> 193...	6/27/2017 3:45 PM	6.793	673		0.49	285.1 -> 153...			285.1 -> 153...			Diazepam-D5	290.1 -> 198...	6.751	220022				
Dihydrocodeine	302.2 -> 198...	6/27/2017 3:45 PM					302.2 -> 128...			302.2 -> 128...			Dihydrocodeine-D6	308.2 -> 202...	5.343	145129				
Diphenhydramine	256.2 -> 167...	6/27/2017 3:45 PM	6.371	1744		0.88	256.2 -> 152...			256.2 -> 152...		1.60	Diphenhydramine-D3	259.2 -> 167...	6.330	18528...				
Doxylamine	271.2 -> 182...	6/27/2017 3:45 PM	5.982	1213		1.29	271.2 -> 167...			271.2 -> 167...			Doxylamine-D5	276.2 -> 187...	5.980	14967...				
EDDP	279.2 -> 235...	6/27/2017 3:45 PM	5.919	332		0.44	279.2 -> 250...			279.2 -> 250...		0.24	EDDP-D3	282.2 -> 235...	6.306	97585				
Fentanyl	337.2 -> 105...	6/27/2017 3:45 PM	6.214	291		0.72	337.2 -> 188...			337.2 -> 188...			Fentanyl-D5	342.3 -> 105...	6.639	12236...				
Fluoxetine	310.1 -> 44.3	6/27/2017 3:45 PM	6.505	634		0.68	310.1 -> 148...			310.1 -> 148...		1.10	Fluoxetine-D6	316.2 -> 44.3	6.503	12182...				
Hydrocodone	300.2 -> 198...	6/27/2017 3:45 PM	5.896	92		0.54	300.2 -> 128...			300.2 -> 128...		0.34	Hydrocodone-D6	306.2 -> 202...	5.793	246719				
Hydromorphone	286.2 -> 184...	6/27/2017 3:45 PM	5.103	454		1.09	286.2 -> 157...			286.2 -> 157...		2.86	Hydromorphone-D6	292.2 -> 185...	5.244	89908				
Ketamine	238.1 -> 125...	6/27/2017 3:45 PM	6.169	309		0.46	238.1 -> 220...			238.1 -> 220...		0.47	Ketamine-D4	242.1 -> 129...	6.249	174179				
Meprobamate	219.1 -> 158...	6/27/2017 3:45 PM					219.1 -> 97.1			219.1 -> 97.1			Meprobamate-D7	226.2 -> 165...	5.701	114563				
Methadone	310.2 -> 265...	6/27/2017 3:45 PM	6.747	2716		0.93	310.2 -> 105...			310.2 -> 105...			Methadone-D9	319.3 -> 268...	6.624	14011...				
Methamphetamine	150.1 -> 91.1	6/27/2017 3:45 PM	5.356	272047		Infinity	150.1 -> 119...			150.1 -> 119...		2.63	Methamphetamine-D11	161.2 -> 97.1	5.294	277463				
Morphine	286.2 -> 201...	6/27/2017 3:45 PM	4.760	857		0.82	286.2 -> 165...			286.2 -> 165...		0.67	Morphine-D6	292.2 -> 152...	5.020	6373				
Naloxone	328.2 -> 309...	6/27/2017 3:45 PM	6.378	2123		2.05	328.2 -> 211...			328.2 -> 211...		0.72	Naloxone-D5	333.2 -> 315...	6.072	369668				
Naltrexol	344.2 -> 326...	6/27/2017 3:45 PM	5.420	29		0.34	344.2 -> 308...			344.2 -> 308...			Naltrexol-D3	347.2 -> 329...	5.399	380042				
Naltrexone	342.2 -> 324...	6/27/2017 3:45 PM	5.198	262		0.43	342.2 -> 55.3			342.2 -> 55.3		0.30	Naltrexone-D3	345.2 -> 327...	5.379	985				
Norbuprenorphine	414.3 -> 101...	6/27/2017 3:45 PM	6.151	188		1.56	414.3 -> 57.3			414.3 -> 57.3		1.46	Norbuprenorphine-D3	417.3 -> 101...	6.150	33750				
Nordiazepam	271.1 -> 140...	6/27/2017 3:45 PM	6.675	167		0.87	271.1 -> 208...			271.1 -> 208...			Nordiazepam-D5	276.1 -> 140...	6.613	91365				
Norfentanyl	233.2 -> 84.2	6/27/2017 3:45 PM	5.475	31		0.32	233.2 -> 55.3			233.2 -> 55.3		2.09	Norfentanyl-D5	238.2 -> 84.2	5.598	690701				
Norhydrocodone	286.2 -> 199...	6/27/2017 3:45 PM	5.448	200		26.32	286.2 -> 171...			286.2 -> 171...		1.30	Norhydrocodone-D3	289.2 -> 202...	5.305	71981				
Noroxycodone	302.1 -> 284...	6/27/2017 3:45 PM	5.181	1124		0.78	302.1 -> 186...			302.1 -> 186...		2.00	Noroxycodone-D3	305.2 -> 287...	5.201	165357				
O-desmethyl-tramadol	250.2 -> 58.3	6/27/2017 3:45 PM	5.270	910		0.76	250.2 -> 42.3			250.2 -> 42.3		0.56	O-desmethyl-tramadol...	256.2 -> 64.3	5.208	897475				
Oxazepam	287.1 -> 240...	6/27/2017 3:45 PM	6.447	258		1.54	287.1 -> 268...			287.1 -> 268...			Oxazepam-D5	292.1 -> 246...	6.447	120722				
Oxycodone	316.2 -> 298...	6/27/2017 3:45 PM	5.546	1909		0.93	316.2 -> 241...			316.2 -> 241...		2.17	Oxycodone-D6	322.2 -> 304...	5.525	326258				
Oxymorphone	302.1 -> 284...	6/27/2017 3:45 PM	4.998	301		0.70	302.1 -> 227...			302.1 -> 227...			Oxymorphone-D3	305.2 -> 287...	4.896	347726				
Phentermine	150.1 -> 65.2	6/27/2017 3:45 PM	5.336	52674		2.18	150.1 -> 133...			150.1 -> 133...			Phentermine-D5	155.2 -> 96.2	5.396	309949				
Promethazine	285.1 -> 86.2	6/27/2017 3:45 PM	6.833	2030		0.94	285.1 -> 71.3			285.1 -> 71.3		0.87	Promethazine-D3	288.2 -> 89.2	6.812	26212...				
Quetiapine	384.2 -> 253...	6/27/2017 3:45 PM	6.760	424		0.72	384.2 -> 221...			384.2 -> 221...		1.03	Quetiapine-D8	392.2 -> 226...	6.759	439606				
Sertraline	306.1 -> 158...	6/27/2017 3:45 PM	6.850	835		0.59	306.1 -> 275...			306.1 -> 275...		4.92	Sertraline-D3	309.1 -> 275...	6.869	364471				
Sufentanil	387.2 -> 238...	6/27/2017 3:45 PM	7.002	1814		366.37	387.2 -> 111...			387.2 -> 111...		46.04	Sufentanil-D5	392.2 -> 238...	6.981	11071...				

Compound Method		p1 negative			p1 negative Results			Qualifier 1 M...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.
Temazepam	301.1 -> 255...	6/27/2017 3:45 PM	6.527	2296		0.80	301.1 -> 283...			Temazepam-D5	306.1 -> 260...	6.588	547165
Tramadol	264.2 -> 58.3	6/27/2017 3:45 PM	5.779	8183		5.89	264.2 -> 43.3			Tramadol-13C-D3	268.2 -> 58.3	5.759	11219...
Trazodone	372.2 -> 176...	6/27/2017 3:45 PM	6.943	1903		3.55	372.2 -> 148...		1.47	Trazodone-D6	378.2 -> 182...	6.922	15512...
Venlafaxine	278.2 -> 58.3	6/27/2017 3:45 PM					278.2 -> 260...			Venlafaxine-D6	284.2 -> 64.3	6.061	11715...
Zolpidem	308.2 -> 235...	6/27/2017 3:45 PM	6.627	1620		1.93	308.2 -> 263...		6.63	Zolpidem-D6	314.2 -> 235...	6.484	13643...

Compound Method			p1 external control			p1 external control Results			Qualifier 1 M...			Qualifier 1...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	6/27/2017 4:04 PM					328.2 -> 211...						6-MAM-D6	334.2 -> 165...	5.604	60410			
7-aminoclonazepam	286.1 -> 121...	6/27/2017 4:04 PM					286.1 -> 222...						7-Aminoclonazepam-D4	290.1 -> 121...	5.631	458955			
Acetyl Fentanyl	323.2 -> 105...	6/27/2017 4:04 PM					323.2 -> 188...						Acetyl Fentanyl-D5	328.2 -> 105...	6.459	485662			
Acetyl Norfentanyl	219.1 -> 84.2	6/27/2017 4:04 PM	5.152	43		0.23	219.1 -> 56.3						Acetyl Norfentanyl-D5	224.2 -> 84.2	5.151	523125			
a-hydroxylprazolam	325.1 -> 297...	6/27/2017 4:04 PM	6.602	47		0.83	325.1 -> 215...						a-hydroxylprazolam-D5	330.1 -> 302...	6.459	54811			
alpha-PVP	232.2 -> 91.0	6/27/2017 4:04 PM	6.068	1140		0.97	232.2 -> 77.1					0.57	alpha-PVP-d8	240.2 -> 91.1	6.046	764697			
Alprazolam	309.1 -> 281...	6/27/2017 4:04 PM	6.363	3911		7.78	309.1 -> 205...					0.58	Alprazolam-D5	314.1 -> 286...	6.545	273429			
Amphetamine	136.1 -> 91.1	6/27/2017 4:04 PM	5.053	54498		7.43	136.1 -> 119...					1.56	Amphetamine-D11	147.2 -> 130...	5.093	121390			
Bupropion	240.1 -> 184...	6/27/2017 4:04 PM	6.413	68		80.14	240.1 -> 131...						Bupropion-D9	249.2 -> 185...	6.270	739610			
Carisoprodol	261.2 -> 176...	6/27/2017 4:04 PM	6.208	1987		0.82	261.2 -> 55.3					0.81	Carisoprodol-D7	268.2 -> 183...	6.187	454276			
Citalopram	325.2 -> 109...	6/27/2017 4:04 PM					325.2 -> 262...						Citalopram-D6	331.2 -> 109...	6.316	10835...			
Clonazepam	316.1 -> 269...	6/27/2017 4:04 PM	6.564	433		3.04	316.1 -> 213...						Clonazepam-D4	320.1 -> 217...	6.401	31141			
Codeine	300.2 -> 214...	6/27/2017 4:04 PM	5.651	117992		728.59	300.2 -> 165...					704.40	Codeine-D6	306.2 -> 218...	5.589	42984			
Cyclobenzaprine	276.2 -> 214...	6/27/2017 4:04 PM	6.592	47		0.34	276.2 -> 231...					3.62	Cyclobenzaprine-D3	279.2 -> 215...	6.693	770631			
Dextromethorphan	272.2 -> 171...	6/27/2017 4:04 PM	6.349	116		0.21	272.2 -> 147...					2.90	Dextromethorphan-D3	275.2 -> 171...	6.451	325668			
Dextropropion	258.2 -> 157...	6/27/2017 4:04 PM	5.821	165		0.86	258.2 -> 133...						Dextropropion-D3	261.2 -> 157...	5.739	276280			
Diazepam	285.1 -> 193...	6/27/2017 4:04 PM	6.773	1311		0.85	285.1 -> 153...						Diazepam-D5	290.1 -> 198...	6.751	228283			
Dihydrocodeine	302.2 -> 198...	6/27/2017 4:04 PM	5.201	28		0.47	302.2 -> 128...					283.19	Dihydrocodeine-D6	308.2 -> 202...	5.343	151923			
Diphenhydramine	256.2 -> 167...	6/27/2017 4:04 PM	6.351	38498...		1048...	256.2 -> 152...					305.89	Diphenhydramine-D3	259.2 -> 167...	6.330	18612...			
Doxylamine	271.2 -> 182...	6/27/2017 4:04 PM					271.2 -> 167...						Doxylamine-D5	276.2 -> 187...	5.960	16224...			
EDDP	279.2 -> 235...	6/27/2017 4:04 PM					279.2 -> 250...						EDDP-D3	282.2 -> 235...	6.306	112579			
Fentanyl	337.2 -> 105...	6/27/2017 4:04 PM					337.2 -> 188...						Fentanyl-D5	342.3 -> 105...	6.639	12249...			
Fluoxetine	310.1 -> 44.3	6/27/2017 4:04 PM	6.485	440		1.22	310.1 -> 148...					2.94	Fluoxetine-D6	316.2 -> 44.3	6.503	13592...			
Hydrocodone	300.2 -> 198...	6/27/2017 4:04 PM	5.651	65831		287.71	300.2 -> 128...					282.21	Hydrocodone-D6	306.2 -> 202...	5.793	251496			
Hydromorphone	286.2 -> 184...	6/27/2017 4:04 PM	5.103	75223		533.33	286.2 -> 157...					1761...	Hydromorphone-D6	292.2 -> 185...	5.224	94250			
Ketamine	238.1 -> 125...	6/27/2017 4:04 PM	5.578	1137		1.47	238.1 -> 220...					0.58	Ketamine-D4	242.1 -> 129...	6.249	209447			
Meprobamate	219.1 -> 158...	6/27/2017 4:04 PM					219.1 -> 97.1						Meprobamate-D7	226.2 -> 165...	5.701	107021			
Methadone	310.2 -> 265...	6/27/2017 4:04 PM	6.504	4418		2.38	310.2 -> 105...						Methadone-D9	319.3 -> 268...	6.624	15156...			
Methamphetamine	150.1 -> 91.1	6/27/2017 4:04 PM	5.336	197335		2.74	150.1 -> 119...					2.36	Methamphetamine-D11	161.2 -> 97.1	5.294	343356			
Morphine	286.2 -> 201...	6/27/2017 4:04 PM	5.082	126314		442.41	286.2 -> 165...					260.48	Morphine-D6	292.2 -> 152...	5.000	6554			
Naloxone	328.2 -> 309...	6/27/2017 4:04 PM	6.378	2172		7.70	328.2 -> 211...					0.67	Naloxone-D5	333.2 -> 315...	6.052	406028			
Naltrexol	344.2 -> 326...	6/27/2017 4:04 PM	5.481	178		0.92	344.2 -> 308...						Naltrexol-D3	347.2 -> 329...	5.399	397705			
Naltrexone	342.2 -> 324...	6/27/2017 4:04 PM	5.441	54		0.21	342.2 -> 55.3					0.46	Naltrexone-D3	345.2 -> 327...	5.420	277			
Norbuprenorphine	414.3 -> 101...	6/27/2017 4:04 PM	6.151	245		2.24	414.3 -> 57.3					0.42	Norbuprenorphine-D3	417.3 -> 101...	6.130	40985			
Nordiazepam	271.1 -> 140...	6/27/2017 4:04 PM					271.1 -> 208...						Nordiazepam-D5	276.1 -> 140...	6.613	92243			
Norfentanyl	233.2 -> 84.2	6/27/2017 4:04 PM	5.619	155		2.05	233.2 -> 55.3					2.79	Norfentanyl-D5	238.2 -> 84.2	5.598	681169			
Norhydrocodone	286.2 -> 199...	6/27/2017 4:04 PM	5.103	5830		55.53	286.2 -> 171...					22.02	Norhydrocodone-D3	289.2 -> 202...	5.305	67984			
Noroxycodone	302.1 -> 284...	6/27/2017 4:04 PM	5.202	325		0.74	302.1 -> 186...					4.94	Noroxycodone-D3	305.2 -> 287...	5.181	169953			
O-desmethyl-tramadol	250.2 -> 58.3	6/27/2017 4:04 PM	5.229	1192		1.39	250.2 -> 42.3					0.54	O-desmethyl-tramadol-...	256.2 -> 64.3	5.208	908231			
Oxazepam	287.1 -> 240...	6/27/2017 4:04 PM	6.222	1260		0.60	287.1 -> 268...					4.92	Oxazepam-D5	292.1 -> 246...	6.447	126949			
Oxycodone	316.2 -> 298...	6/27/2017 4:04 PM	5.546	907		0.90	316.2 -> 241...					2.37	Oxycodone-D6	322.2 -> 304...	5.504	334894			
Oxymorphone	302.1 -> 284...	6/27/2017 4:04 PM	5.080	249		0.49	302.1 -> 227...						Oxymorphone-D3	305.2 -> 287...	4.896	371069			
Phentermine	150.1 -> 65.2	6/27/2017 4:04 PM	5.315	49535		2.44	150.1 -> 133...						Phentermine-D5	155.2 -> 96.2	5.396	337410			
Promethazine	285.1 -> 86.2	6/27/2017 4:04 PM	6.793	569		1.31	285.1 -> 71.3					0.47	Promethazine-D3	288.2 -> 89.2	6.812	30354...			
Quetiapine	384.2 -> 253...	6/27/2017 4:04 PM	7.023	74		0.60	384.2 -> 221...					0.43	Quetiapine-D8	392.2 -> 226...	6.759	464465			
Sertraline	306.1 -> 158...	6/27/2017 4:04 PM	6.790	1141		0.82	306.1 -> 275...					441.11	Sertraline-D3	309.1 -> 275...	6.869	412716			
Sufentanil	387.2 -> 238...	6/27/2017 4:04 PM	7.002	1976		25.50	387.2 -> 111...					6.86	Sufentanil-D5	392.2 -> 238...	6.981	13200...			

Compound Method		p1 external control			p1 external control Results			Qualifier 1 M...			Qualifier 1...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.		
Temazepam	301.1 -> 255...	6/27/2017 4:04 PM	6.710	1590		0.82	301.1 -> 283...		0.86	306.1 -> 260...			Temazepam-D5	306.1 -> 260...	6.588	567247		
Tramadol	264.2 -> 58.3	6/27/2017 4:04 PM	5.759	6939		8.92	264.2 -> 43.3			268.2 -> 58.3			Tramadol-13C-D3	268.2 -> 58.3	5.759	12044...		
Trazodone	372.2 -> 176...	6/27/2017 4:04 PM	6.943	1517		2.32	372.2 -> 148...		1.01	378.2 -> 182...			Trazodone-D6	378.2 -> 182...	6.922	16353...		
Venlafaxine	278.2 -> 58.3	6/27/2017 4:04 PM					278.2 -> 260...			284.2 -> 64.3			Venlafaxine-D6	284.2 -> 64.3	6.061	11953...		
Zolpidem	308.2 -> 235...	6/27/2017 4:04 PM	6.424	313		0.80	308.2 -> 263...			314.2 -> 235...			Zolpidem-D6	314.2 -> 235...	6.484	14044...		

Compound Method			p2 external control			p2 external control Results			Qualifier 1 M...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	Name	Transition	RT	Resp.		
7-aminoflutrazepam	284.1 → 135...	6/27/2017 4:14 PM	5.845	105		1.62	284.1 → 93.2				7-aminoflutrazepam-D7	291.2 → 138...	5.802	262915		
alpha-hydroxymidazolam	342.1 → 324...	6/27/2017 4:14 PM	6.326	219		0.74	342.1 → 203...				2.47	346.1 → 328...	6.529	459967		
Amitriptyline	278.2 → 91.2	6/27/2017 4:14 PM	6.843	825658		94.65	278.2 → 105...				591.16	281.2 → 91.2	6.821	575262		
Amoxapine	314.1 → 271...	6/27/2017 4:14 PM	6.553	791		19.71	314.1 → 193...				9.09	281.2 → 91.2	6.821	575262		
Benzoyllecgonine	290.1 → 168...	6/27/2017 4:14 PM	5.454	110		0.88	290.1 → 105...				0.90	298.2 → 171...	5.433	6600		
Carbamazepine	237.1 → 193...	6/27/2017 4:14 PM					237.1 → 194...					243.1 → 200...	6.218	12860...		
Chlordiazepoxide	300.1 → 227...	6/27/2017 4:14 PM	6.473	772		2.48	300.1 → 282...				0.50	305.1 → 286...	6.656	321208		
Clomipramine	315.2 → 86.2	6/27/2017 4:14 PM	6.836	23		0.37	315.2 → 58.3					318.2 → 89.2	7.142	15167...		
Cocaine	304.2 → 182...	6/27/2017 4:14 PM	6.065	1544		5.45	304.2 → 105...				1.16	307.2 → 185...	6.024	866605		
Desipramine	267.2 → 72.3	6/27/2017 4:14 PM	6.621	170866		112.10	267.2 → 44.3				Infinity	270.2 → 75.3	6.621	14511...		
Doxepin	280.2 → 107...	6/27/2017 4:14 PM					280.2 → 77.2					283.2 → 107...	6.537	766954		
Estazolam	295.1 → 267...	6/27/2017 4:14 PM	6.557	43		0.69	295.1 → 205...					300.1 → 272...	6.473	374490		
Flunitrazepam	314.1 → 268...	6/27/2017 4:14 PM	6.553	1064		1.02	314.1 → 239...				1.04	321.1 → 245...	6.512	13646		
Flurazepam	388.2 → 315...	6/27/2017 4:14 PM	6.547	151		0.64	388.2 → 317...				0.88	393.1 → 244...	6.506	188605		
Imipramine	281.2 → 86.2	6/27/2017 4:14 PM	6.740	3495		1.84	281.2 → 58.3				0.64	284.2 → 61.3	6.760	12095...		
Levamisole	205.1 → 91.2	6/27/2017 4:14 PM					205.1 → 178...					307.2 → 185...	6.024	866605		
Maprotiline	278.2 → 91.2	6/27/2017 4:14 PM					278.2 → 117...					252.2 → 224...	6.094	399689		
MDA	180.1 → 163...	6/27/2017 4:14 PM	5.124	134		0.50	180.1 → 105...					185.1 → 168...	5.285	264560		
MDEA	208.1 → 163...	6/27/2017 4:14 PM	5.629	56		0.55	208.1 → 105...				0.47	214.2 → 166...	5.548	559412		
MDMA	194.1 → 163...	6/27/2017 4:14 PM	5.448	9		0.21	194.1 → 105...				0.41	200.2 → 166...	5.427	45484		
Meperidine	248.2 → 220...	6/27/2017 4:14 PM	5.993	38		0.68	248.2 → 174...				0.63	252.2 → 224...	6.094	399689		
Methylphenidate	234.2 → 84.2	6/27/2017 4:14 PM					234.2 → 56.3					252.2 → 224...	6.094	399689		
Metoprolol	288.2 → 116...	6/27/2017 4:14 PM	5.744	9		0.04	268.2 → 56.3				4.96	252.2 → 224...	6.094	399689		
Midazolam	326.1 → 223...	6/27/2017 4:14 PM	6.592	38		1.20	326.1 → 249...					252.2 → 224...	6.692	478448		
Mirtazapine	266.2 → 195...	6/27/2017 4:14 PM	6.622	26149...		44480...	266.2 → 72.3				252.17	330.1 → 295...	6.692	478448		
Mitragynine	399.2 → 174...	6/27/2017 4:14 PM					399.2 → 238...					243.1 → 200...	6.218	12860...		
Normeperidine	234.1 → 42.3	6/27/2017 4:14 PM	5.873	356		71.60	234.1 → 160...				0.81	238.2 → 164...	5.892	327889		
Norpropoxyphene	326.2 → 44.3	6/27/2017 4:14 PM	6.225	66		0.38	326.2 → 252...					331.2 → 44.3	6.448	153153		
Nortriptyline	284.2 → 91.2	6/27/2017 4:14 PM	6.623	3919		Infinity	264.2 → 233...				3.26	267.2 → 233...	6.560	117133		
Ondansetron	294.2 → 184...	6/27/2017 4:14 PM	5.209	80		0.27	294.2 → 212...				0.82	289.2 → 72.3	5.966	506855		
Pentazocine	286.2 → 218...	6/27/2017 4:14 PM	5.966	75		1.58	286.2 → 41.3				1.02	289.2 → 72.3	5.966	506855		
Phenazepam	349.0 → 206...	6/27/2017 4:14 PM	6.528	2231		12.81	349.0 → 183...					353.0 → 183...	6.568	25738		
Phencyclidine	244.2 → 86.2	6/27/2017 4:14 PM	6.014	172		1.22	244.2 → 91.1				Infinity	249.2 → 86.2	6.196	11685...		
Phenylethylamine	253.1 → 104...	6/27/2017 4:14 PM	6.114	2465		2.58	253.1 → 182...					263.2 → 192...	6.114	20337		
Prazepam	325.1 → 271...	6/27/2017 4:14 PM	6.815	106		1.16	325.1 → 140...				2.32	330.1 → 276...	6.995	11841...		
Primidone	219.1 → 91.2	6/27/2017 4:14 PM	5.772	4344		3.50	219.1 → 162...				1.14	330.1 → 276...	6.995	11841...		
Propoxyphene	340.2 → 58.3	6/27/2017 4:14 PM	6.407	37		0.41	340.2 → 266...				5.05	351.3 → 277...	6.588	372873		
Triprolyline	284.2 → 155...	6/27/2017 4:14 PM	6.481	66		0.17	284.2 → 161...				0.22	267.2 → 233...	6.560	117133		
Pseudoephedrine	166.1 → 148...	6/27/2017 4:14 PM	5.005	845		1.09	166.1 → 133...				0.81	169.1 → 151...	4.924	435044		
Tapentadol	222.2 → 107...	6/27/2017 4:14 PM					222.2 → 121...					225.2 → 107...	5.750	822025		
Trimipramine	295.2 → 100...	6/27/2017 4:14 PM	6.759	429		1.10	295.2 → 58.3				0.80	298.2 → 103...	6.881	29652...		
Verapamil	455.3 → 165...	6/27/2017 4:14 PM					455.3 → 150...					298.2 → 103...	6.881	29652...		
Zaleplon	306.1 → 236...	6/27/2017 4:14 PM					306.1 → 264...					310.2 → 240...	6.309	263955		
Zopiclone	389.1 → 244...	6/27/2017 4:14 PM	6.587	52		0.51	389.1 → 216...				0.79	393.1 → 244...	6.506	188605		

Mirtazapine not resolving from desipramine. Positive result for desipramine is a response from mirtazapine



Compound Method				p2 negative				p2 negative Results				Qualifier 1 M...				ISTD Method				ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.					
7-aminoflunitrazepam	284.1 -> 135...	6/27/2017 3:55 PM	5.618	50		2.69	284.1 -> 93.2		0.79	284.1 -> 138...		5.802	7-aminoflunitrazepam-D7	291.2 -> 138...	5.802	238823					
alpha-hydroxymidazolam	342.1 -> 324...	6/27/2017 3:55 PM	6.468	225		0.49	342.1 -> 203...			346.1 -> 328...		6.529	alpha-hydroxymidazolam...	346.1 -> 328...	6.529	457834					
Amitriptyline	278.2 -> 91.2	6/27/2017 3:55 PM	6.600	6422		0.71	278.2 -> 105...		1.24	281.2 -> 91.2		6.821	Amitriptyline-D3	281.2 -> 91.2	6.821	532003					
Amoxapine	314.1 -> 271...	6/27/2017 3:55 PM	6.553	632		10.35	314.1 -> 193...		19.73	281.2 -> 91.2		6.821	Amitriptyline-D3	281.2 -> 91.2	6.821	532003					
Benzoyllecgonine	290.1 -> 168...	6/27/2017 3:55 PM	5.454	55		1.27	290.1 -> 105...		3.77	298.2 -> 171...		5.433	Benzoyllecgonine-D8	298.2 -> 171...	5.433	7179					
Carbamazepine	237.1 -> 193...	6/27/2017 3:55 PM	6.218	103		1.53	237.1 -> 194...		1.45	243.1 -> 200...		6.218	Carbamazepine-13C6	243.1 -> 200...	6.218	12799...					
Chlordiazepoxide	300.1 -> 227...	6/27/2017 3:55 PM	6.494	891		282.19	300.1 -> 282...		1.80	305.1 -> 286...		6.656	Chlordiazepoxide-D5	305.1 -> 286...	6.656	313375					
Clomipramine	315.2 -> 86.2	6/27/2017 3:55 PM					315.2 -> 58.3			318.2 -> 89.2		7.121	Clomipramine-D3	318.2 -> 89.2	7.121	14131...					
Cocaine	304.2 -> 182...	6/27/2017 3:55 PM	5.821	44		0.92	304.2 -> 105...		0.41	307.2 -> 185...		6.024	Cocaine-D3	307.2 -> 185...	6.024	886680					
Desipramine	267.2 -> 72.3	6/27/2017 3:55 PM	6.621	3120		5.32	267.2 -> 44.3		5.25	270.2 -> 75.3		6.621	Desipramine-D3	270.2 -> 75.3	6.621	13434...					
Doxepin	280.2 -> 107...	6/27/2017 3:55 PM					280.2 -> 77.2			283.2 -> 107...		6.537	Doxepin-D3	283.2 -> 107...	6.537	689905					
Estazolam	295.1 -> 267...	6/27/2017 3:55 PM	6.373	105		2.67	295.1 -> 205...		0.91	300.1 -> 272...		6.473	Estazolam-D5	300.1 -> 272...	6.473	364072					
Flunitrazepam	314.1 -> 268...	6/27/2017 3:55 PM	6.553	918		3.71	314.1 -> 239...		2.55	321.1 -> 245...		6.491	Flunitrazepam-D7	321.1 -> 245...	6.491	12231					
Flurazepam	388.2 -> 315...	6/27/2017 3:55 PM	6.182	242		1.81	388.2 -> 317...		0.54	393.1 -> 244...		6.506	Flurazepam-D4	393.1 -> 244...	6.506	203335					
Imipramine	281.2 -> 86.2	6/27/2017 3:55 PM	6.700	1892		1.22	281.2 -> 58.3		0.79	284.2 -> 61.3		6.760	Imipramine-D3	284.2 -> 61.3	6.760	10828...					
Levamisole	205.1 -> 91.2	6/27/2017 3:55 PM	5.773	831		0.92	205.1 -> 178...		3.78	307.2 -> 185...		6.024	Cocaine-D3	307.2 -> 185...	6.024	886680					
Maprotiline	278.2 -> 91.2	6/27/2017 3:55 PM					278.2 -> 117...			252.2 -> 224...		6.074	Meperidine-D4	252.2 -> 224...	6.074	370623					
MDA	180.1 -> 163...	6/27/2017 3:55 PM					180.1 -> 105...			185.1 -> 168...		5.285	MDA-D5	185.1 -> 168...	5.285	260966					
MDEA	208.1 -> 163...	6/27/2017 3:55 PM	5.548	53		1.17	208.1 -> 105...		0.31	214.2 -> 166...		5.548	MDEA-D6	214.2 -> 166...	5.548	537464					
MDMA	194.1 -> 163...	6/27/2017 3:55 PM					194.1 -> 105...			200.2 -> 166...		5.427	MDMA-D6	200.2 -> 166...	5.427	43404					
Meperidine	248.2 -> 220...	6/27/2017 3:55 PM	6.115	93		0.89	248.2 -> 174...		0.89	252.2 -> 224...		6.074	Meperidine-D4	252.2 -> 224...	6.074	370623					
Methylphenidate	234.2 -> 84.2	6/27/2017 3:55 PM	5.729	192		0.58	234.2 -> 56.3			252.2 -> 224...		6.074	Meperidine-D4	252.2 -> 224...	6.074	370623					
Metoprolol	268.2 -> 116...	6/27/2017 3:55 PM					268.2 -> 56.3			252.2 -> 224...		6.672	Meperidine-D4	252.2 -> 224...	6.672	370623					
Midazolam	326.1 -> 223...	6/27/2017 3:55 PM	6.531	28		0.67	326.1 -> 249...			330.1 -> 295...		6.672	Midazolam-D4	330.1 -> 295...	6.672	477166					
Mirtazapine	266.2 -> 195...	6/27/2017 3:55 PM	6.337	38		3.81	266.2 -> 72.3		0.31	330.1 -> 295...		6.672	Midazolam-D4	330.1 -> 295...	6.672	477166					
Mitragynine	399.2 -> 174...	6/27/2017 3:55 PM					399.2 -> 238...			243.1 -> 200...		6.218	Carbamazepine-13C6	243.1 -> 200...	6.218	12799...					
Normeperidine	234.1 -> 42.3	6/27/2017 3:55 PM					234.1 -> 160...			238.2 -> 164...		5.872	Normeperidine-D4	238.2 -> 164...	5.872	293993					
Norpropoxyphene	326.2 -> 44.3	6/27/2017 3:55 PM	6.429	26		0.61	326.2 -> 252...			331.2 -> 44.3		6.448	Normeperidine-D5	331.2 -> 44.3	6.448	133597					
Notriptyline	264.2 -> 91.2	6/27/2017 3:55 PM	6.602	4332		Infinity	264.2 -> 233...		321.61	267.2 -> 233...		6.560	Notriptyline-D3	267.2 -> 233...	6.560	108532					
Ondansetron	294.2 -> 184...	6/27/2017 3:55 PM	6.148	91		0.89	294.2 -> 212...		1.53	289.2 -> 72.3		5.966	Pentazocine-13C3	289.2 -> 72.3	5.966	472597					
Pentazocine	286.2 -> 218...	6/27/2017 3:55 PM					286.2 -> 41.3			289.2 -> 72.3		5.966	Pentazocine-13C3	289.2 -> 72.3	5.966	472597					
Phenazepam	349.0 -> 206...	6/27/2017 3:55 PM	6.528	1981		39.08	349.0 -> 183...		0.64	353.0 -> 183...		6.547	Phenazepam-D4	353.0 -> 183...	6.547	21442					
Phencyclidine	244.2 -> 86.2	6/27/2017 3:55 PM	5.871	554		0.45	244.2 -> 91.1		Infinity	249.2 -> 86.2		6.196	Phencyclidine-D5	249.2 -> 86.2	6.196	10568...					
Phenylethanolamine	253.1 -> 104...	6/27/2017 3:55 PM	6.074	3326		3.00	253.1 -> 182...			263.2 -> 192...		6.114	Phenylethanolamine-D10	263.2 -> 192...	6.114	22023					
Prazepam	325.1 -> 271...	6/27/2017 3:55 PM	6.997	36		2.11	325.1 -> 140...			330.1 -> 276...		6.995	Prazepam-D5	330.1 -> 276...	6.995	11262...					
Primidone	219.1 -> 91.2	6/27/2017 3:55 PM	5.772	3385		1.60	219.1 -> 162...		0.83	330.1 -> 276...		6.995	Prazepam-D5	330.1 -> 276...	6.995	11262...					
Propoxyphene	340.2 -> 58.3	6/27/2017 3:55 PM	6.651	270		0.50	340.2 -> 266...		47.33	351.3 -> 277...		6.588	Propoxyphene-D11	351.3 -> 277...	6.588	333988					
Proprietyline	264.2 -> 155...	6/27/2017 3:55 PM	6.379	51		0.46	264.2 -> 161...			267.2 -> 233...		6.560	Proprietyline-D3	267.2 -> 233...	6.560	108532					
Pseudoephedrine	166.1 -> 148...	6/27/2017 3:55 PM	4.985	1336		0.39	166.1 -> 133...		0.47	169.1 -> 151...		4.944	Pseudoephedrine-D3	169.1 -> 151...	4.944	370279					
Tapentadol	222.2 -> 107...	6/27/2017 3:55 PM					222.2 -> 121...			225.2 -> 107...		5.730	Tapentadol-D3	225.2 -> 107...	5.730	770243					
Trimipramine	295.2 -> 100...	6/27/2017 3:55 PM	6.718	225		50.66	295.2 -> 58.3			298.2 -> 103...		6.881	Trimipramine-D3	298.2 -> 103...	6.881	26334...					
Verapamil	455.3 -> 165...	6/27/2017 3:55 PM	6.444	25		0.21	455.3 -> 150...			298.2 -> 103...		6.881	Trimipramine-D3	298.2 -> 103...	6.881	26334...					
Zaleplon	306.1 -> 236...	6/27/2017 3:55 PM	6.248	47		0.36	306.1 -> 264...			310.2 -> 240...		6.309	Zaleplon-D4	310.2 -> 240...	6.309	247533					
Zopiclone	389.1 -> 244...	6/27/2017 3:55 PM	6.486	101		1.33	389.1 -> 216...			393.1 -> 244...		6.506	Zopiclone-D4	393.1 -> 244...	6.506	203335					

Compound Method			p2 cal 1b			p2 cal 1b Results			Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Transition	Name	Transition	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	6/27/2017 3:35...	5.824	54248		203.28	284.1 -> 93.2		550.19	291.2 -> 138...		550.19	291.2 -> 138...	7-aminoflunitrazepam-D7	291.2 -> 138...	5.802	227125		
alpha-hydroxymidazolam	342.1 -> 324...	6/27/2017 3:35...	6.529	84937		34454.31	342.1 -> 203...		293.24	346.1 -> 328...		293.24	346.1 -> 328...	alpha-hydroxymidazolam...	346.1 -> 328...	6.508	415295		
Amitriptyline	278.2 -> 91.2	6/27/2017 3:35...	6.620	56654		Infinity	278.2 -> 105...		Infinity	281.2 -> 91.2		86.00	281.2 -> 91.2	Amitriptyline-D3	281.2 -> 91.2	6.801	479699		
Amoxapine	314.1 -> 271...	6/27/2017 3:35...	6.776	65670		296.97	314.1 -> 193...		86.00	281.2 -> 91.2		146.12	281.2 -> 91.2	Amitriptyline-D3	281.2 -> 91.2	6.801	479699		
Benzoyllecgonine	290.1 -> 168...	6/27/2017 3:35...	5.434	22067		14717.44	290.1 -> 105...		Infinity	298.2 -> 171...		Infinity	298.2 -> 171...	Benzoyllecgonine-D8	298.2 -> 171...	5.412	7269		
Carbamazepine	237.1 -> 193...	6/27/2017 3:35...	6.218	25164		95.39	237.1 -> 194...		Infinity	243.1 -> 200...		Infinity	243.1 -> 200...	Carbamazepine-13C6	243.1 -> 200...	6.197	11629...		
Chlordiazepoxide	300.1 -> 227...	6/27/2017 3:35...	6.657	36663		1915.04	300.1 -> 282...		24.86	305.1 -> 286...		24.86	305.1 -> 286...	Chlordiazepoxide-D5	305.1 -> 286...	6.636	273794		
Clomipramine	315.2 -> 86.2	6/27/2017 3:35...	7.143	311688		522.49	315.2 -> 58.3		188.82	318.2 -> 89.2		188.82	318.2 -> 89.2	Clomipramine-D3	318.2 -> 89.2	7.101	14993...		
Cocaine	304.2 -> 182...	6/27/2017 3:35...	6.045	210967		583.16	304.2 -> 105...		96.05	307.2 -> 185...		96.05	307.2 -> 185...	Cocaine-D3	307.2 -> 185...	6.024	772322		
Desipramine	267.2 -> 72.3	6/27/2017 3:35...	6.621	252265		709.43	267.2 -> 44.3		Infinity	270.2 -> 75.3		Infinity	270.2 -> 75.3	Desipramine-D3	270.2 -> 75.3	6.601	11657...		
Doxepin	280.2 -> 107...	6/27/2017 3:35...	6.538	131418		92.74	280.2 -> 77.2		29.01	283.2 -> 107...		29.01	283.2 -> 107...	Doxepin-D3	283.2 -> 107...	6.517	614849		
Estazolam	295.1 -> 267...	6/27/2017 3:35...	6.455	70192		11442.39	295.1 -> 205...		50.99	300.1 -> 272...		50.99	300.1 -> 272...	Estazolam-D5	300.1 -> 272...	6.453	313902		
Flunitrazepam	314.1 -> 268...	6/27/2017 3:35...	6.492	63933		Infinity	314.1 -> 239...		29.27	321.1 -> 245...		29.27	321.1 -> 245...	Flunitrazepam-D7	321.1 -> 245...	6.491	10571		
Flurazepam	388.2 -> 315...	6/27/2017 3:35...	6.668	190456		357.14	388.2 -> 317...		251.69	393.1 -> 244...		251.69	393.1 -> 244...	Zopiclone-D4	393.1 -> 244...	6.485	151839		
Imipramine	281.2 -> 86.2	6/27/2017 3:35...	6.760	417785		488.96	281.2 -> 58.3		Infinity	284.2 -> 61.3		Infinity	284.2 -> 61.3	Imipramine-D3	284.2 -> 61.3	6.740	948125		
Levamisole	205.1 -> 91.2	6/27/2017 3:35...	5.752	54674		55.21	205.1 -> 178...		142.02	307.2 -> 185...		142.02	307.2 -> 185...	Cocaine-D3	307.2 -> 185...	6.024	772322		
Maprotiline	278.2 -> 91.2	6/27/2017 3:35...	6.295	111625		Infinity	278.2 -> 117...		3.52	252.2 -> 224...		3.52	252.2 -> 224...	Meperidine-D4	252.2 -> 224...	6.074	353433		
MDA	180.1 -> 163...	6/27/2017 3:35...	5.306	45681		Infinity	180.1 -> 105...		568.25	185.1 -> 168...		568.25	185.1 -> 168...	MDA-D5	185.1 -> 168...	5.265	238873		
MDEA	208.1 -> 163...	6/27/2017 3:35...	5.548	99663		316.17	208.1 -> 105...		84.50	214.2 -> 166...		84.50	214.2 -> 166...	MDEA-D6	214.2 -> 166...	5.548	509514		
MDMA	194.1 -> 163...	6/27/2017 3:35...	5.408	83596		320.49	194.1 -> 105...		91.03	200.2 -> 166...		91.03	200.2 -> 166...	MDMA-D6	200.2 -> 166...	5.407	37712		
Meperidine	248.2 -> 220...	6/27/2017 3:35...	6.075	72915		287.97	248.2 -> 174...		10158...	252.2 -> 224...		10158...	252.2 -> 224...	Meperidine-D4	252.2 -> 224...	6.074	353433		
Methylphenidate	234.2 -> 84.2	6/27/2017 3:35...	5.913	331545		Infinity	234.2 -> 56.3		Infinity	252.2 -> 224...		Infinity	252.2 -> 224...	Meperidine-D4	252.2 -> 224...	6.074	353433		
Metoprolol	268.2 -> 116...	6/27/2017 3:35...	5.703	31921		7661.56	268.2 -> 56.3		18.92	252.2 -> 224...		18.92	252.2 -> 224...	Meperidine-D4	252.2 -> 224...	6.074	353433		
Midazolam	326.1 -> 223...	6/27/2017 3:35...	6.693	26272		50.28	326.1 -> 249...		Infinity	330.1 -> 295...		Infinity	330.1 -> 295...	Midazolam-D4	330.1 -> 295...	6.672	428683		
Mirtazapine	266.2 -> 195...	6/27/2017 3:35...	6.622	226864		488.54	266.2 -> 72.3		56179...	330.1 -> 295...		56179...	330.1 -> 295...	Midazolam-D4	330.1 -> 295...	6.672	428683		
Mirtazapine	399.2 -> 174...	6/27/2017 3:35...	6.647	75941		370.99	399.2 -> 73.8		66.76	243.1 -> 200...		66.76	243.1 -> 200...	Carbamazepine-13C6	243.1 -> 200...	6.197	11629...		
Normeperidine	334.1 -> 42.3	6/27/2017 3:35...	5.873	75517		Infinity	334.1 -> 160...		210.06	238.2 -> 164...		210.06	238.2 -> 164...	Normeperidine-D4	238.2 -> 164...	5.872	272333		
Norpropoxyphene	326.2 -> 44.3	6/27/2017 3:35...	6.449	30200		60.78	326.2 -> 252...		28.42	331.2 -> 44.3		28.42	331.2 -> 44.3	Norpropoxyphene-D5	331.2 -> 44.3	6.449	131468		
Nortriptyline	264.2 -> 91.2	6/27/2017 3:35...	6.542	240488		Infinity	264.2 -> 233...		Infinity	267.2 -> 233...		Infinity	267.2 -> 233...	Nortriptyline-D3	267.2 -> 233...	6.540	78800		
Ondansetron	294.2 -> 184...	6/27/2017 3:35...	6.312	122071		515.21	294.2 -> 212...		557.72	289.2 -> 72.3		557.72	289.2 -> 72.3	Pentazocine-13C3	289.2 -> 72.3	5.946	414534		
Pentazocine	286.2 -> 218...	6/27/2017 3:35...	5.946	119257		660.54	286.2 -> 41.3		79.14	289.2 -> 72.3		79.14	289.2 -> 72.3	Pentazocine-13C3	289.2 -> 72.3	5.946	414534		
Phenazepam	349.0 -> 206...	6/27/2017 3:35...	6.569	58756		85.09	349.0 -> 183...		30.38	353.0 -> 183...		30.38	353.0 -> 183...	Phenazepam-D4	353.0 -> 183...	6.568	20297		
Phencyclidine	244.2 -> 86.2	6/27/2017 3:35...	6.197	204689		187.51	244.2 -> 91.1		115.74	249.2 -> 86.2		115.74	249.2 -> 86.2	Phencyclidine-D5	249.2 -> 86.2	6.176	991021		
Phenylethylamine	253.1 -> 104...	6/27/2017 3:35...	6.135	9251		16.42	253.1 -> 182...		30.28	263.2 -> 192...		30.28	263.2 -> 192...	Phenylethylamine-D10	263.2 -> 192...	6.114	16807		
Prizepam	325.1 -> 271...	6/27/2017 3:35...	6.997	239757		321.59	325.1 -> 140...		158.09	330.1 -> 276...		158.09	330.1 -> 276...	Prizepam-D5	330.1 -> 276...	6.995	10079...		
Primidone	219.1 -> 91.2	6/27/2017 3:35...	5.527	9695		5.21	219.1 -> 162...		37.62	330.1 -> 276...		37.62	330.1 -> 276...	Prizepam-D5	330.1 -> 276...	6.995	10079...		
Propoxyphene	340.2 -> 58.3	6/27/2017 3:35...	6.610	255119		39995.95	340.2 -> 266...		5.06	351.3 -> 277...		5.06	351.3 -> 277...	Propoxyphene-D11	351.3 -> 277...	6.568	302145		
Proprietyline	264.2 -> 155...	6/27/2017 3:35...	6.542	575105		Infinity	264.2 -> 161...		Infinity	267.2 -> 233...		Infinity	267.2 -> 233...	Nortriptyline-D3	267.2 -> 233...	6.540	78800		
Pseudoephedrine	166.1 -> 148...	6/27/2017 3:35...	4.924	910303		141.36	166.1 -> 133...		870.59	169.1 -> 151...		870.59	169.1 -> 151...	Pseudoephedrine-D3	169.1 -> 151...	4.924	418527		
Tapentadol	222.2 -> 107...	6/27/2017 3:35...	5.730	148334		91.54	222.2 -> 121...		122.93	225.2 -> 107...		122.93	225.2 -> 107...	Tapentadol-D3	225.2 -> 107...	5.730	714925		
Trimipramine	295.2 -> 100...	6/27/2017 3:35...	6.882	521365		902.08	295.2 -> 58.3		Infinity	298.2 -> 103...		Infinity	298.2 -> 103...	Trimipramine-D3	298.2 -> 103...	6.860	23603...		
Verapamil	455.3 -> 165...	6/27/2017 3:35...	6.626	216599		1576.98	455.3 -> 150...		14510...	298.2 -> 103...		14510...	298.2 -> 103...	Trimipramine-D3	298.2 -> 103...	6.860	23603...		
Zaleplon	306.1 -> 236...	6/27/2017 3:35...	6.310	60457		15978.05	306.1 -> 264...		236.33	310.2 -> 240...		236.33	310.2 -> 240...	Zaleplon-D4	310.2 -> 240...	6.289	232442		
Zopiclone	389.1 -> 244...	6/27/2017 3:35...	6.486	34099		144.71	389.1 -> 216...		49.34	393.1 -> 244...		49.34	393.1 -> 244...	Zopiclone-D4	393.1 -> 244...	6.485	151839		

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

Extraction Date: 6-27-17 Analyst: Anne Nord

PRE-ANALYTIC custom 0499102 1-28-2018  
Plate Lot# Stock THC plate: 0483844 A Plate Exp: 6/15/2017 A

- ✓ 1. Ensure all solutions are within expiration date.
  - Mobile Phase A: **10mM Amm Formate**
  - Mobile Phase B: **0.1% FA in MeOH**
  - Blank/Negative Blood: **Lot 321632-1**
  - Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
  - **0.1% Formic Acid in water**
  - **MTBE**
  - **Hexane**
- ✓ 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
- ✓ 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.
- ✓ 4. Create worklist. Data path name: 6-27-17 blood screen AM 25-26

## ANALYTIC

- ✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- ✓ 2. Add **1000 µL blood** to wells of analytical (standards) plate. Mix via aspirate and dispense.
  - 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 **500µL 0.1% formic acid** to all wells of standards plate.
- ✓ 5. Place on shaking incubator at ambient temp., **900rpm for 15 minutes.**
- ✓ 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Pressure Manifold ID 66729*
- ✓ Wait 5 min.
- ✓ 8. Add **2.25mL MTBE** and allow to flow under gravity for 5 minutes. *(add in 3 increments of 750uL)*
- ✓ 9. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*
- ✓ 10. Add **2.25mL Hexane** and allow to flow under gravity for 5 minutes. *(add in 3 increments of 750uL)*
- ✓ 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*
- ✓ 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID 66819*
- ✓ 13. Reconstitute in **100 µL 100% 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: 62717 can screen
- ✓ 2. Make any necessary integration changes.
- ✓ 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?
- ✓ 4. Did QCs pass for each analyte? Y N \_\_\_\_\_
- 5. Central File Packet to include: ✓ LIMS Worklist: ✓ Method Checklist \_\_\_\_\_ Calibration and Control Reports

Comments:

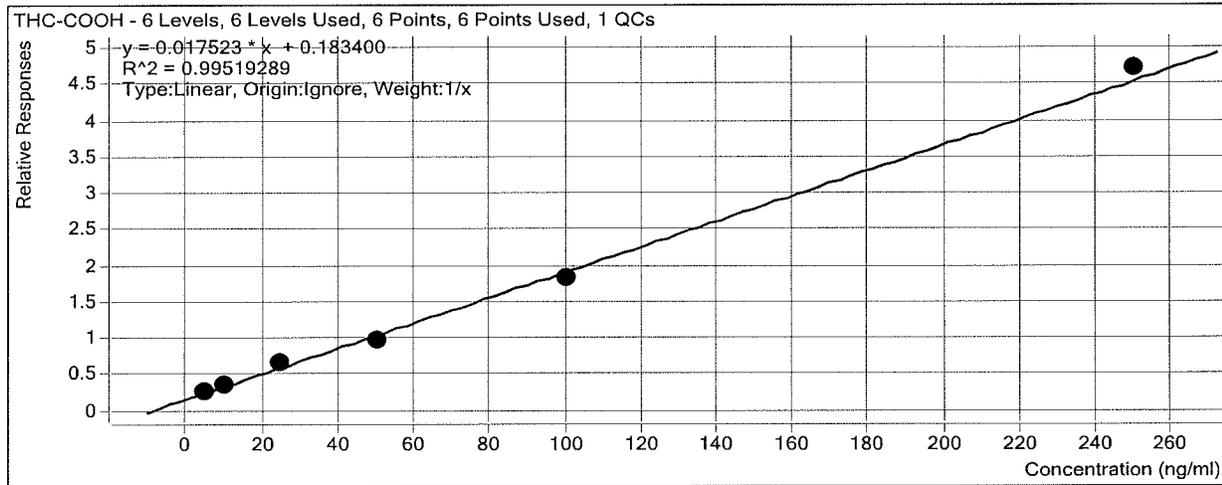
# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin

**Last Calib Update** 6/30/2017 8:40 AM

**Analyst Name** ISP TOX

**Target Compound** *THC-COOH*  
**Internal Standard** *THC-COOH-d9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.4	108.0
cal 3	3	<input checked="" type="checkbox"/>	10	9.2	91.6
QC 10	3	<input checked="" type="checkbox"/>	10	8.3	83.4
cal 4	4	<input checked="" type="checkbox"/>	25	28.2	112.8
cal 5	5	<input checked="" type="checkbox"/>	50	45.4	90.7
cal 6	6	<input checked="" type="checkbox"/>	100	93.4	93.4
cal 7	7	<input checked="" type="checkbox"/>	250	258.5	103.4

# ISP Forensics Calibration Curve Report

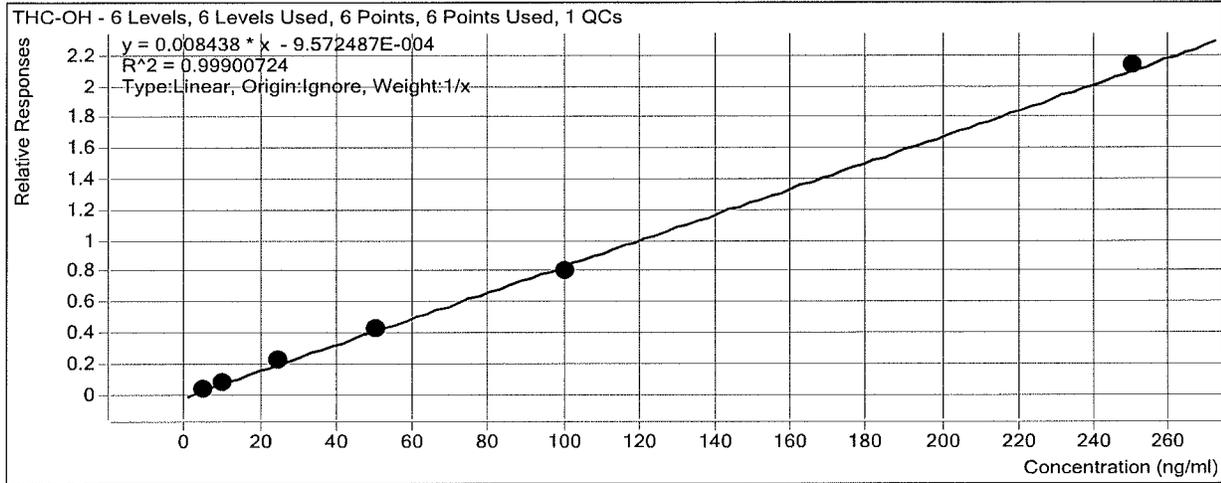
**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin

**Last Calib Update** 6/30/2017 8:40 AM

**Analyst Name** ISP TOX

**Target Compound** *THC-OH*

**Internal Standard** *THC-OH-d3*



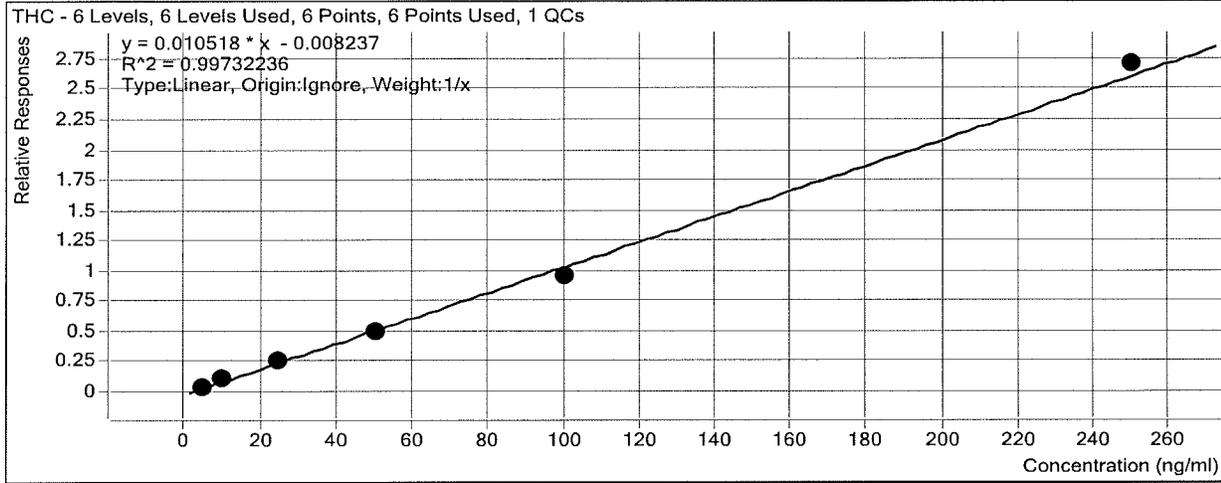
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.2	103.4
cal 3	3	<input checked="" type="checkbox"/>	10	9.4	93.8
QC 10	3	<input checked="" type="checkbox"/>	10	9.7	96.7
cal 4	4	<input checked="" type="checkbox"/>	25	26.0	104.2
cal 5	5	<input checked="" type="checkbox"/>	50	51.0	102.0
cal 6	6	<input checked="" type="checkbox"/>	100	95.5	95.5
cal 7	7	<input checked="" type="checkbox"/>	250	252.9	101.2

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin

**Last Calib Update** 6/30/2017 8:40 AM      **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	4.9	98.7
cal 3	3	<input checked="" type="checkbox"/>	10	10.6	105.8
QC 10	3	<input checked="" type="checkbox"/>	10	10.0	100.2
cal 4	4	<input checked="" type="checkbox"/>	25	25.7	102.8
cal 5	5	<input checked="" type="checkbox"/>	50	48.6	97.1
cal 6	6	<input checked="" type="checkbox"/>	100	92.4	92.4
cal 7	7	<input checked="" type="checkbox"/>	250	257.8	103.1

# ISP FORENSICS - Cd'A

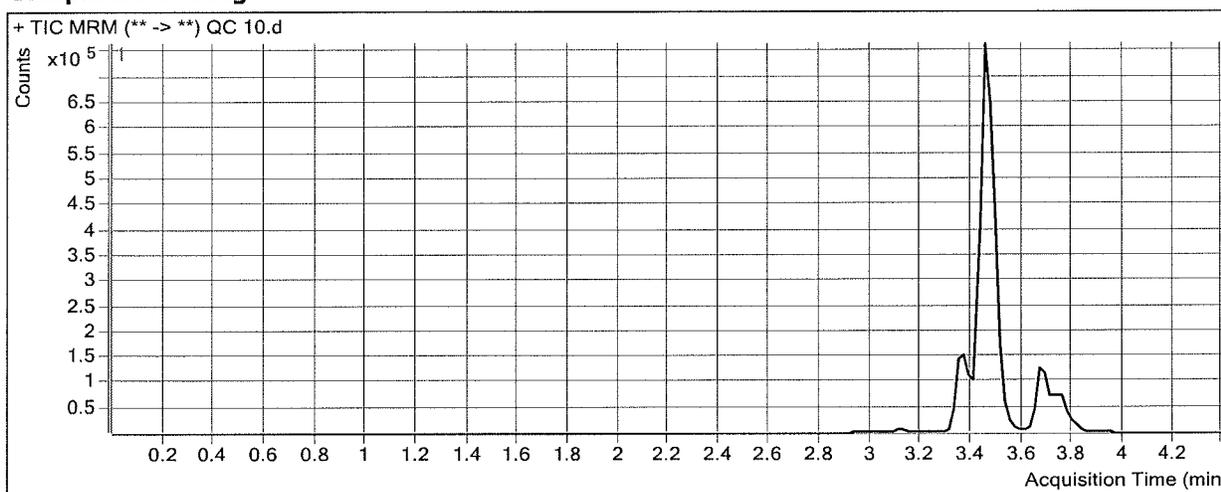
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 11:09 **Data File** QC 10.d  
**Sample Type** QC **Sample Name** QC 10  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.366	187716	569658	0.3295	8.3388
THC-OH	3.453	213052	2643231	0.0806	9.6656
THC	3.760	5588	57495	0.0972	10.0231

# ISP FORENSICS - Cd'A

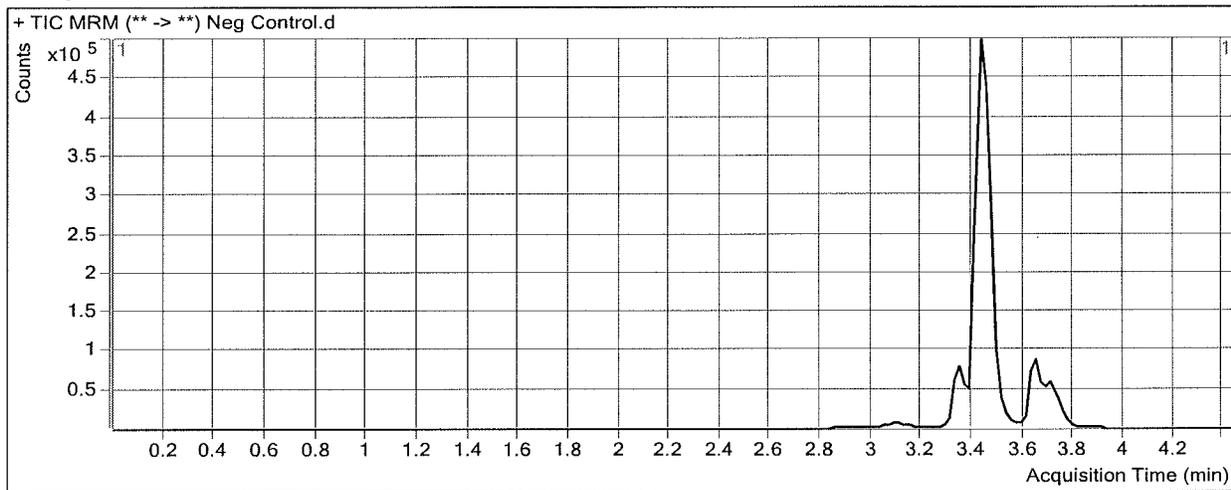
## Cannabionoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:49 **Data File** Neg Control.d  
**Sample Type** Sample **Sample Name** Neg Control  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-a2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen negative blood lot 32632-1

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.406	40973	305299	0.1342	0.0000

# ISP FORENSICS - Cd'A

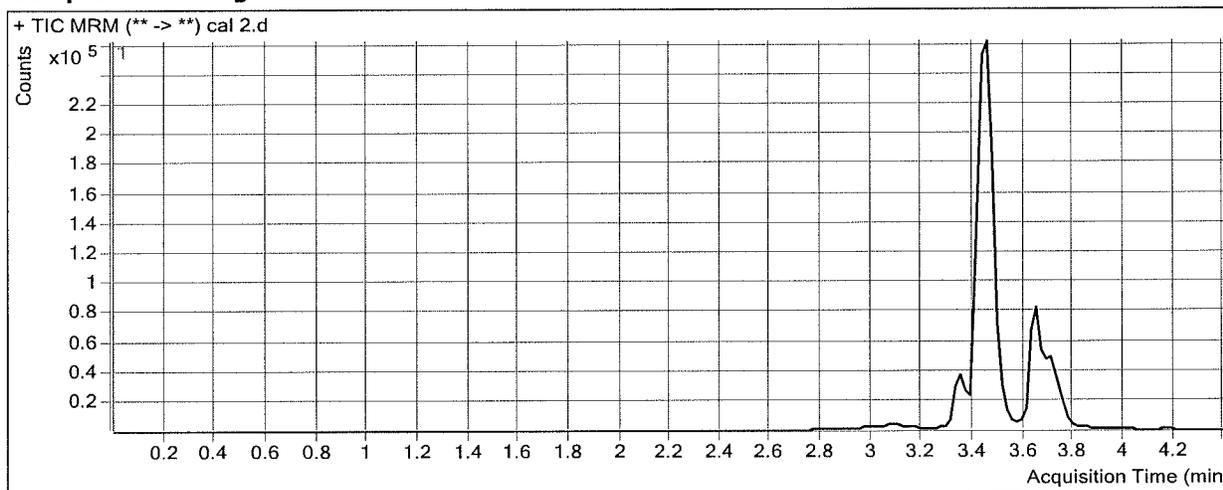
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:16 **Data File** cal 2.d  
**Sample Type** Calibration **Sample Name** cal 2  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.406	35966	129343	0.2781	5.4022
THC-OH	3.453	42809	1003436	0.0427	5.1693
THC	3.720	1531	35049	0.0437	4.9372

# ISP FORENSICS - Cd'A

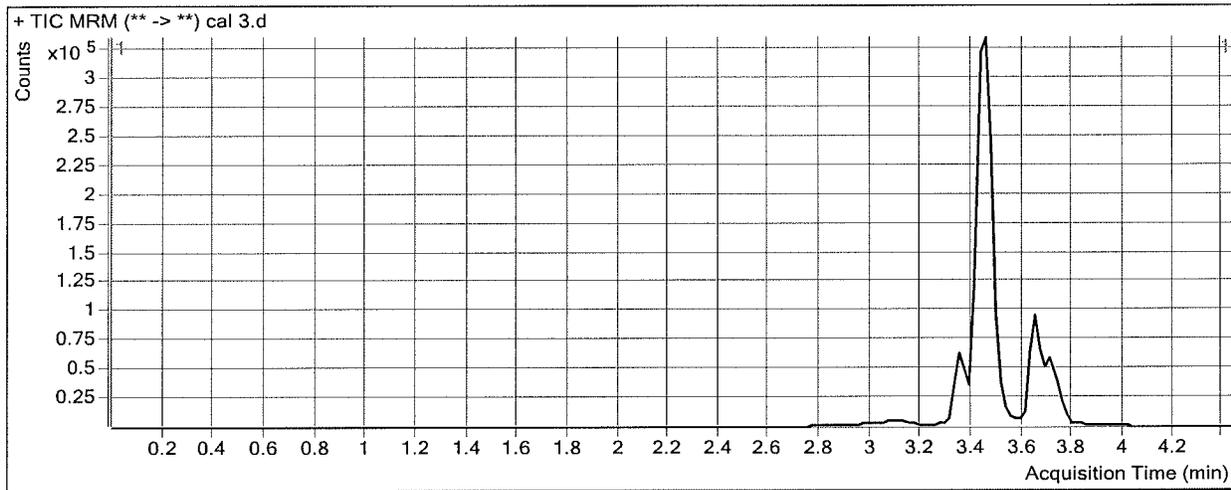
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:23 **Data File** cal 3.d  
**Sample Type** Calibration **Sample Name** cal 3  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.406	63108	183480	0.3439	9.1619
THC-OH	3.453	94987	1215130	0.0782	9.3773
THC	3.720	3857	37417	0.1031	10.5845

# ISP FORENSICS - Cd'A

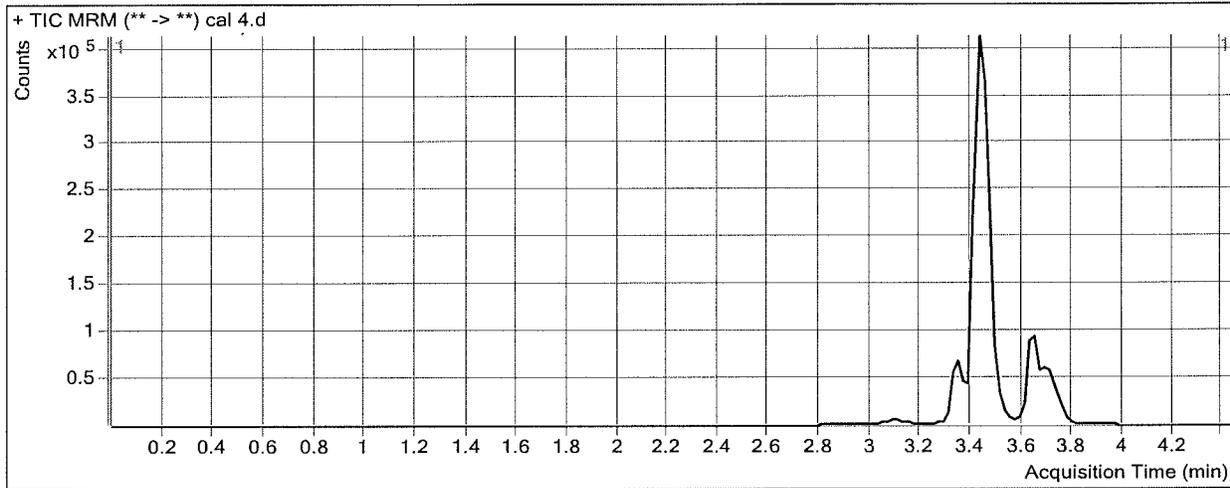
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:29 **Data File** cal 4.d  
**Sample Type** Calibration **Sample Name** cal 4  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.346	105267	155363	0.6776	28.1997
THC-OH	3.433	275582	1259420	0.2188	26.0452
THC	3.720	10376	39608	0.2620	25.6900

# ISP FORENSICS - Cd'A

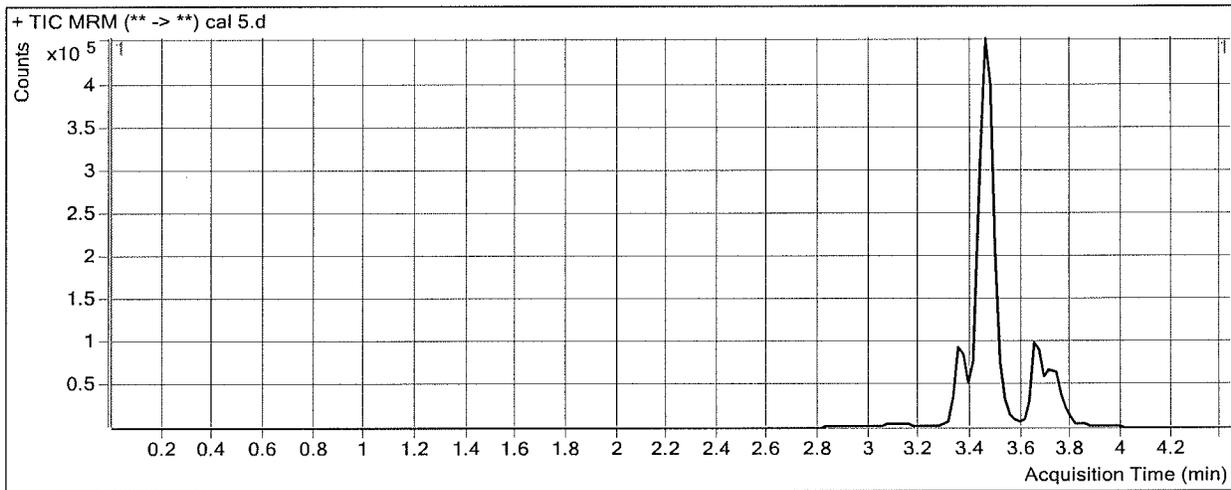
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:36 **Data File** cal 5.d  
**Sample Type** Calibration **Sample Name** cal 5  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.366	156811	160257	0.9785	45.3734
THC-OH	3.453	513069	1195129	0.4293	50.9893
THC	3.740	22182	44132	0.5026	48.5692

# ISP FORENSICS - Cd'A

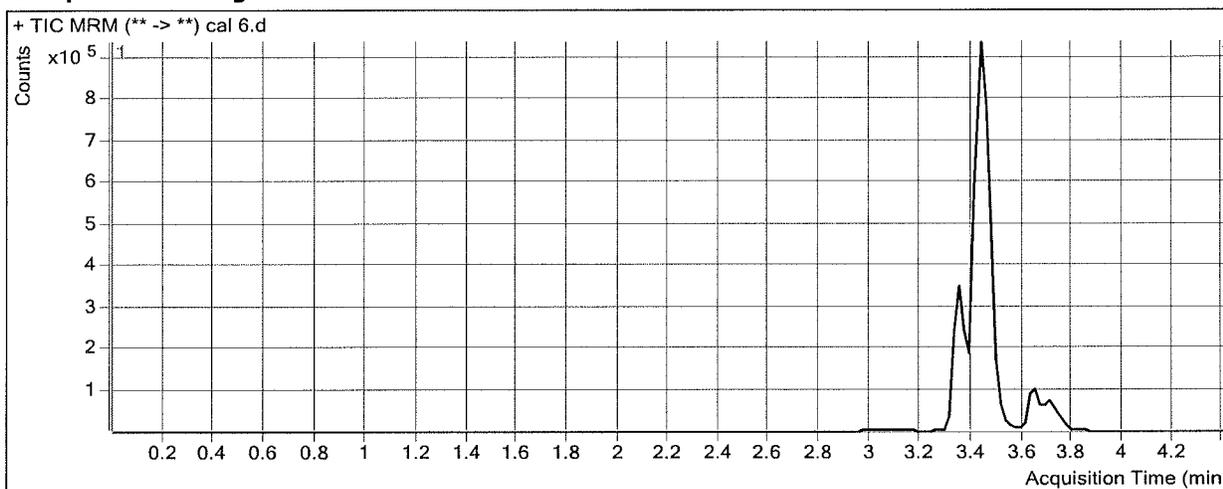
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:42 **Data File** cal 6.d  
**Sample Type** Calibration **Sample Name** cal 6  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.346	701930	385621	1.8203	93.4096
THC-OH	3.433	1451918	1803409	0.8051	95.5245
THC	3.720	44324	46009	0.9634	92.3730

# ISP FORENSICS - Cd'A

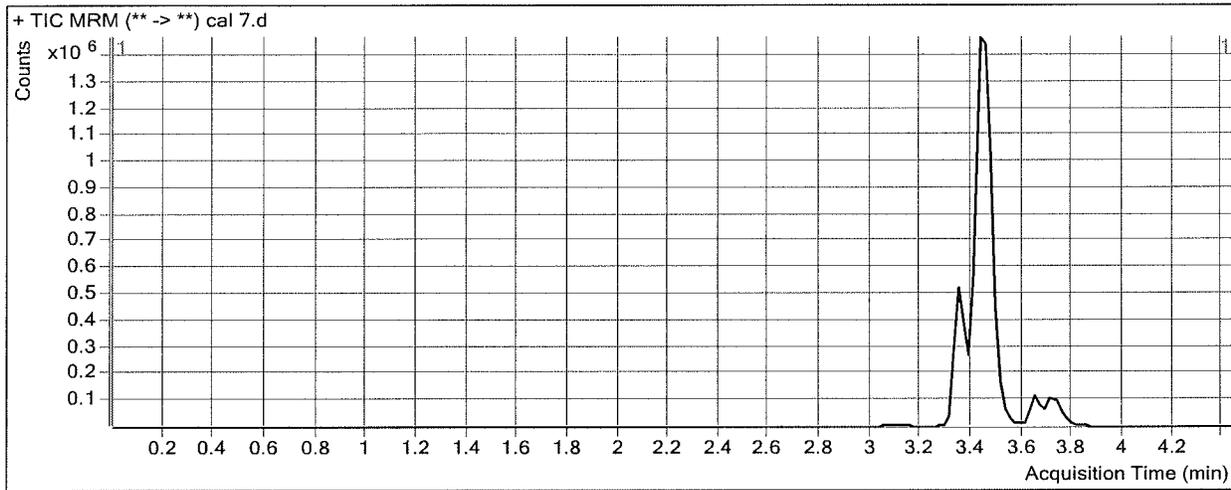
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-27-17 blood screen AM 25-26\QuantResults\62717 cann screen.batch.bin  
**Analysis Time** 6/30/2017 8:40 AM **Analyst Name** ISP Tox  
**Report Time** 6/30/2017 8:40 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/30/2017 8:40 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-27 10:56 **Data File** cal 7.d  
**Sample Type** Calibration **Sample Name** cal 7  
**Dilution** 1 **Acq Method** Screen THC 11102016.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	3.346	1265731	268596	4.7124	258.4532
THC-OH	3.453	3672029	1721521	2.1330	252.8945
THC	3.740	136029	50309	2.7039	257.8460