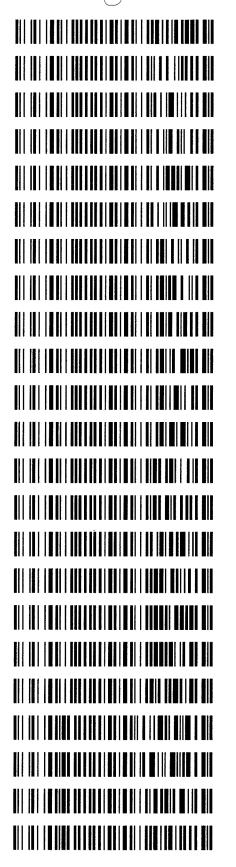
Worklist: 1892

Ī	AB CASE	ITEM	TASK ID	DESCRIPTION
(2017-1623	1	92452	AM 25/AM 26 Blood MultiDrug/
(22017-1676	1	92810	AM 25/AM 26 Blood MultiDrug/
(22017-1703	1	93042	AM 25/AM 26 Blood MultiDrug/
(22017-1719	1	93201	AM 25/AM 26 Blood MultiDrug/
(C2017-1720	1	93203	AM 25/AM 26 Blood MultiDrug/
C	2017-1738	1	93440	AM 25/AM 26 Blood MultiDrug/
C	2017-1758	1	93596	AM 25/AM 26 Blood MultiDrug/
C	2017-1759	1	93599	AM 25/AM 26 Blood MultiDrug/
C	2017-1760	1	93601	AM 25/AM 26 Blood MultiDrug/
C	2017-1761	1	93644	AM 25/AM 26 Blood MultiDrug/
C	2017-1766	1	93682	AM 25/AM 26 Blood MultiDrug/
C	2017-1767	1	93684	AM 25/AM 26 Blood MultiDrug/
C	2017-1774	1	93750	AM 25/AM 26 Blood MultiDrug/
C	2017-1775	1	93753	AM 25/AM 26 Blood MultiDrug/
C	2017-1808	1	93973	AM 25/AM 26 Blood MultiDrug/
C	2017-1821	1	94203	AM 25/AM 26 Blood MultiDrug/
C	2017-1822	1	94205	AM 25/AM 26 Blood MultiDrug/
C	2017-1823	1	94207	AM 25/AM 26 Blood MultiDrug/
C	2017-1825	1	94337	AM 25/AM 26 Blood MultiDrug/
N	12017-2649	1	88836	AM 25/AM 26 Blood MultiDrug/
٨	12017-3654	1	94811	AM 25/AM 26 Blood MultiDrug/
N	12017-3719	1	94813	AM 25/AM 26 Blood MultiDrug/
N	12017-3741	1	94727	AM 25/AM 26 Blood MultiDrug/

reviewed 9/18/17

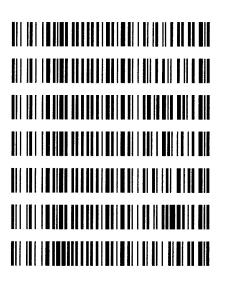
Buyle

9/14/2017



Worklist: 1892

LAB CASE	ITEM	TASK ID	DESCRIPTION
M2017-3801	3	92837	AM 25/AM 26 Blood MultiDrug/
M2017-3805	2	92812	AM 25/AM 26 Blood MultiDrug/
M2017-3811	4	94728	AM 25/AM 26 Blood MultiDrug/
M2017-3889	2	93249	AM 25/AM 26 Blood MultiDrug/
M2017-3900	2	94812	AM 25/AM 26 Blood MultiDrug/
M2017-3999	1	94367	AM 25/AM 26 Blood MultiDrug/
P2017-2014	1	93087	AM 25/AM 26 Blood MultiDrug/





ISP Forer	nsic Services: Toxicology Discipline		
	Multi-Drug Screen in	Blood by LC-MS/MS	5
	Extraction Date: 9-12-17	Analyst: Anne Nord	<u> </u>
PRE-ANAI	LYTIC		
	Plate Lot# 0495940 insure all solutions are within expiration date.	Plate. Exp/2-/2-	-2017
√ 1. E	insure all solutions are within expiration date.		
	Phase A:		Lot #: <u>6/4/7</u>
	Amm Formate	Hydroxide	
Mobile 1	A in MeOH	Column: Phenomenex Phenyl	Hexyl (4.6 x 50mm; 2.6um)
	egative Blood Lot #: $321623-1$		
2. C	heck levels of mobile phases and needle wash an	d refill as necessary. Ensure was	ste is not full.
<u> </u>	egin mobile phase flow and allow system to equi	librate for approx. 30 min.	
<u>/</u> 4. C	reate worklist. Data path name: <u>9/217 blo</u>	of scran Am 25-26	
ANALYTI			
$\sqrt{1}$	Remove standards plate, blood, and samples from	a cold storage. Allow to reach ro	om temperature.
<u> </u>	Pipette $250\mu L$ blood in wells of analytical (stand	ards) plate. Mix via aspirate and	dispense.
	Blank blood for locations containing s	-	ards
- (°	Sample blood for locations containing	•	
3.	Place on shaking incubator at ambient temp., 900		
<u> </u>	Pipette 250µL 0.5M ammonium hydroxide buff	• •	ds) plate.
	Place on shaking incubator at ambient temp., 900	•	
	Transfer 300µL of blood+base mixture to corresp		
	Apply positive pressure for approx. 4 seconds (or <i>(Load at 85-100 PSI- Selector to the rig</i>) Wait 5 min.		sorbent).
	Add 900µL ethyl acetate and allow to flow for 5	minutes under gravity	
$\frac{1}{\sqrt{9}}$	Apply positive pressure for approx. 15 seconds. (•••	
	Add 900µL ethyl acetate and allow to flow for 5	÷ .	
	Apply positive pressure for approx. 15 seconds. (
12. I	Remove plate containing eluate. Place on SPE D SPE Dry ID 66819		prox. 35°C.
	Reconstitute in 100µL 100% MeOH and heat sea	al plate with foil. Place in autosa	mpler and run worklist.
POST-A	NALYTIC	۹/	217 Masel
$_{-}$ 1. (Open quantitation software and create a new quar	ititation batch. Batch name: $\frac{9}{12}$	217 mds P2
<u></u> 2. I	Make any necessary integration changes.		
	Evaluate samples, S/N of primary transition >5 a symmetry and resolution. Within +/- 2% rt of adn control.		
5. (Did all QCs pass for each analyte? Y / N Central File Packet to include: LIMS Wor Control Reports	rklist:/Method Checklis	st $\underline{\checkmark}$ Calibration and

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

Concentration 100ng/ml amitriptyline, codeine, diphenhydramine, mirtazapine 200/ng/ml morphine by AMN ppd 3/21/17 Exp 6/21/17

1 FP3 6-26-17 Exp 9-21-17 by AMN 104 92117

1

392.2 -> 226.			Τ	384.2 -> 221	0.89	166	6.599	9/12/2017 6:20 PM	384.2 -> 253	Quetiapine
		0.47	T	285.1 -> 71.3	0.36	48	6.590	9/12/2017 6:20 PM	285.1 -> 86.2	Promethazine
	Phentermine-D5	0.91		150.1 -> 133	1.09	3818	5.133	9/12/2017 6:20 PM	150.1 -> 65.2	Phentermine
	Oxymorphone-D3			302.1 -> 227	1.45	317	4.495	9/12/2017 6:20 PM	302.1 -> 284	Oxymorphone
	Oxycodone-D6		Ē	316.2 -> 241	1.15	434	5,424	9/12/2017 6:20 PM	316.2 -> 298	Oxycodone
	C	0.50		287.1 -> 268	0.48	650	6.162	9/12/2017 6:20 PM	·	Oxazepam
		1.37	1	250.2 -> 42.3	1.67	1287	5.047	9/12/2017 6:20 PM	250.2 -> 58.3	O-desmethyl-tramadol
		0.58		302.1 -> 186	1.09	463	5.020	9/12/2017 6:20 PM	302.1 -> 284	Noroxycodone
				286.2 -> 171	9.50	<u>ا 8</u>	5.144	9/12/2017 6:20 PM	286.2 -> 199	Norhydrocodone
		1.49	Π	233.2 -> 55.3	0.46	66 	5.456	9/12/2017 6:20 PM	233.2 -> 84.2	Norfentanyl
	Nordiazepam-D5			271.1 -> 208				9/12/2017 6:20 PM	271.1 -> 140	Nordiazepam
	Norbuprenorphine-D3		Τ	414.3 -> 57.3		_		9/12/2017 6:20 PM	414.3 -> 101	Norbuprenorphine
	Naltrexone-D3		Ξ	342.2 -> 55.3				9/12/2017 6:20 PM	342.2 -> 324	Naltrexone
	Naltrexol-D3			344.2 -> 308	25.05	6198	5.238	9/12/2017 6:20 PM	344.2 -> 326	Naltrexol
		0.73	1	328.2 -> 211	1.28	452	5.525	9/12/2017 6:20 PM	328.2 -> 309	Naloxone
	Morphine-D6	27830	1	286.2 -> 165	129.80	76918	4.498	9/12/2017 6:20 PM	286.2 -> 201	Morphine
	Methamphetamine-D11			150.1 -> 119	2.38	37669	5.133	9/12/2017 6:20 PM	150.1 -> 91.1	Methamphetamine
	Methadone-D9		1	310.2 -> 105	1.00	562	6.464	9/12/2017 6:20 PM	310.2 -> 265	Methadone
j –	Meprobamate-D7	0.84		219.1 -> 97.1	0.81	175	5.498	9/12/2017 6:20 PM	219.1 -> 158	Meprobamate
		3.54	-1	238.1 -> 220	1.12	137	5.885	9/12/2017 6:20 PM	238.1 -> 125	Ketamine
	Hydromorphone-D6	17910		286.2 -> 157	6850.00	38556	4.478	9/12/2017 6:20 PM	286.2 -> 184	Hydromorphone
		182.58	-	300.2 -> 128	13898.95	47484	5.184	9/12/2017 6:20 PM	300.2 -> 198	Hydrocodone
	Oxycodone-D6			310.1 -> 148	0.71	76	6.383	9/12/2017 6:20 PM	310.1 -> 44.3	Fluoxetine
	Fentanyl-D5		1	۷,	0.58	187 🖵	6.398	9/12/2017 6:20 PM	337.2 -> 105	Fentanyl
282.2	EDDP-D3	1.27		279.2 -> 250	0.95	113	6.185	9/12/2017 6:20 PM	279.2 -> 235	EDDP
276.2 -> 187		0.87	*****	271.2 -> 167	1.39	196	5.738	9/12/2017 6:20 PM	271.2 -> 182	Doxylamine
	2028	3960.42		256.2 -> 152	6762.50	26166	6.148 2	9/12/2017 6:20 PM	256.2 -> 167	Diphenhydramine
			3000000	302.2 -> 128	2.44	43	5.203	9/12/2017 6:20 PM	302.2 -> 198	Dihydrocodeine
		0.22		285.1 -> 153	0.90	185 🕅	6.711	9/12/2017 6:20 PM	285.1 -> 193	Diazepam
İ	Dextrorphan-D3			258.2 -> 133	0.46	35	5.454	9/12/2017 6:20 PM	258.2 -> 157	Dextrorphan
	Dextromethorphan-D3			272.2 -> 147	3.41	124	5.839	9/12/2017 6:20 PM	272.2 -> 171	Dextromethorphan
	Cyclobenzaprine-D3	3.27	-	276.2 -> 231	2.50	358	6.511	9/12/2017 6:20 PM	276.2 -> 214	Cyclobenzaprine
	22/22/26/2	1708.03		300.2 -> 165	483.66	82254	5.184	9/12/2017 6:20 PM	300.2 -> 215	Codeine
	Clonazepam-D4	0.81	7	316.1 -> 213	0.57	222	6.503	9/12/2017 6:20 PM	316.1 -> 269	Clonazepam
331.2	Citalopram-D6			325.2 -> 262	0.46	313	6.257	9/12/2017 6:20 PM	325.2 -> 109	Citalopram
268.2 ->	Carisoprodol-D7		T	261.2 -> 55.3	0.33	70	6.168	9/12/2017 6:20 PM	261.2 -> 176	Carisoprodol
	Bupropion-D9	3.77		240.1 -> 131	1.28	<u>」66</u>	6.108	9/12/2017 6:20 PM		Bupropion
147.2	Amphetamine-D11			136.1 -> 119	15.25	29142	4.972	9/12/2017 6:20 PM	136.1 -> 91.1	Amphetamine
314.1 -> 286	Alprazolam-D5	0.71	7	309.1 -> 205	14.92	2279	6.322	9/12/2017 6:20 PM	309.1 -> 281	Alprazolam
		0.81	П	232.2 -> 77.1	1.03	216 1	5.314	9/12/2017 6:20 PM	232.2 -> 91.0	alpha-PVP
	a-hydroxyalprazolam-D5			325.1 -> 215	0.34	52	6.562	9/12/2017 6:20 PM	325.1 -> 297	a-hydroxyalprazolam
	Acetyl Norfentanyl-D5	2.86	Π	219.1 -> 56.3	1.28	38 🔽	5.010	9/12/2017 6:20 PM	219.1 -> 84.2	Acetyl Norfentanyl
328.2 -> 105	Acetyl Fentanyl-D5			323.2 -> 188				9/12/2017 6:20 PM	323.2 -> 105	Acetyl Fentanyl
	7-Aminoclonazepam-D4		1	286.1 -> 222				9/12/2017 6:20 PM	286.1 -> 121	7-aminoclonazepam
	6-MAM-D6			328.2 -> 211				9/12/2017 6:20 PM	328.2 -> 165	6-MAM
	Name	S/N	Z	Transition	S/N	Resp. MI	RT R	Acq. Date-Time	Transition	Name
10	ISTD Method	Qualifier 1 R		Qualifier 1 M	Results	p1 external control Results	p1 exte	p1 external control	bod	Compound Method
1			1							

Compound Method	ethod	p1 external control	p1e	p1 external control Results	ntrol	Results	Qualifier 1 M., Qualifier 1 R.,	Qualifier 1 R	ISTD Methoc	ğ	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp.	M	N/S	Transition	MI S/N	Name	Transition	RT	Resp.
Sertraline	306.1 -> 158	306.1 -> 158 9/12/2017 6:20 PM	6.588	125	1	0.89	0.89 306.1 -> 275		4.10 Sertraline-D3	309.1 -> 275 6.667 322880	6.667	322880
Sufentanil	387.2 -> 238	387.2 -> 238 9/12/2017 6:20 PM	6.699	1246		4.18	4.18 387.2 -> 111		8.53 Sufentanil-D5	392.2 -> 238 6.679 898546	6.679	898546
Temazepam	301.1 -> 255	301.1 -> 255 9/12/2017 6:20 PM	6.405	572		2.61	2.61 301.1 -> 283	T 12.24	12.24 Temazepam-D5	306.1 -> 260 6.527	6.527	409178
Tramadol	264.2 -> 58.3	264.2 -> 58.3 9/12/2017 6:20 PM	5.575	4786	1	4.12	4.12 264.2 -> 43.3		Tramadol-13C-D3	268.2 -> 58.3 5.554 10605.	5.554	10605
Trazodone	372.2 -> 176	372.2 -> 176 9/12/2017 6:20 PM	6.761	1894		1.44	1.44 372.2 -> 148	2.72	2.72 Trazodone-D6	378.2 -> 182 6.761 11791	6.761	11791
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3 9/12/2017 6:20 PM	5.920	126	2000 A	0.27	0.27 278.2 -> 260	50.50	50.50 Venlafaxine-D6	284.2 -> 64.3 5.919 10384.	5.919	10384
Zolpidem	308.2 -> 235	308.2 -> 235 9/12/2017 6:20 PM	6.587	1591		4.85	4.85 308.2 -> 263	1.61	1.61 Zolpidem-D6	314.2 -> 235 6.362 11535	6.362	11535

					a go alta den na Malan ya na sundi na sundira na sun na suna suna na prana pa					7	
Compound Method	por	p1 cal 1-2a	-	p1 cal 1-2a Results	Results	Qualifier 1 M	Qualifier 1 R	. ISTD Method	p	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp.	MI S/N	Transition	MI S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165	9/12/2017 5:41 PM	5.239	880	V Infinity	328.2 -> 211	V Infinity	v 6-MAM-D6	334.2 -> 165	5.219	54018
7-aminoclonazepam	286.1 -> 121	9/12/2017 5:41 PM	5.572	24147	157.43	286.1 -> 222	[] 38.45	5 7-Aminoclonazepam-D4	290.1 -> 121	5.571	105110
Acetyi Fentanyl	323.2 -> 105		6.115	27245	20.90		<u> 32.55</u>	5 Acetyl Fentanyl-D5	328.2 -> 105	6.093	1582287
Acetyl Norfentanyl	219.1 -> 84.2		5.010	9292	30.53	219.1 -> 56.3	7.06	5 Acetyl Norfentanyl-D5	224.2 -> 84.2	4.989	460659
a-hydroxyalprazolam	325.1 -> 297		6.399	8691	23.06	325.1 -> 215	[] 39.11	1 a-hydroxyalprazolam-D5	330.1 -> 302	6.398	40810
alpha-PVP	232.2 -> 91.0	9/12/2017 5:41 PM	5.763	129339	19800.45	232.2 -> 77.1	<u>Г</u> 51.69	9 alpha-PVP-d8	240.2 -> 91.1	5.721	592821
Alprazolam	309.1 -> 281	9/12/2017 5:41 PM	6.485	59382	2395.45	309.1 -> 205	Г 188.61	1 Alprazolam-D5	314.1 -> 286	6.484	243948
Amphetamine	136.1 -> 91.1	9/12/2017 5:41 PM	4.952	132300	_ 26.77	136.1 -> 119	Г 13.01	1 Amphetamine-D11	147.2 -> 130	4.911	127001
Bupropion	240.1 -> 184	9/12/2017 5:41 PM	5.966	126407	- 10636.06	240.1 -> 131	Г 72.58	8 Bupropion-D9	249.2 -> 185	5.945	598643
Carisoprodol	261.2 -> 176	9/12/2017 5:41 PM	6.147	69656	- 193.84	261.2 -> 55.3	59.28	-	268.2 -> 183	6.126	424234
Citalopram	325.2 -> 109	9/12/2017 5:41 PM	6.176	223246	107.63	325.2 -> 262	Г 168.73	3 Citalopram-D6	331.2 -> 109	6.175	1073730
Clonazepam	316.1 -> 269	9/12/2017 5:41 PM	6.341	24613	57.77	316.1 -> 213	T 26.33		320.1 -> 217	6.340	32433
Codeine	300.2 -> 215	9/12/2017 5:41 PM	5.204	10919	74.66	300.2 -> 165	2484.67		306.2 -> 218	5.161	36552
Cyclobenzaprine	276.2 -> 214	9/12/2017 5:41 PM	6.491	123287	891.68	276.2 -> 231	55.19	9 Cyclobenzaprine-D3	^	6.490	569032
Dextromethorphan	272.2 -> 171	9/12/2017 5:41 PM	6.248	58106	7925.66	272.2 -> 147	7 39.65	5 Dextromethorphan-D3	275.2 -> 171	6.248	284911
Dextrorphan	258.2 -> 157	9/12/2017 5:41 PM	5.556	46173	- 342.02	258.2 -> 133	<u> </u>	2 Dextrorphan-D3	261.2 -> 157	5.555	256835
Diazepam	285.1 -> 193	9/12/2017 5:41 PM	6.711	47371	94.83	285.1 -> 153	<mark> 79.5</mark> 2	2 Diazepam-D5	290.1 -> 198	6.690	200904
Dihydrocodeine	302.2 -> 198	9/12/2017 5:41 PM	5.019	25429 F	- 103.17	302.2 -> 128	[23.17	7 Dihydrocodeine-D6	308.2 -> 202	4.977	138452
Diphenhydramine	256.2 -> 167	9/12/2017 5:41 PM	6.148	287734	1367.00	256.2 -> 152	134.98	8 Diphenhydramine-D3	259.2 -> 167	6.148	1563069
Doxylamine	271.2 -> 182		5.819	268041	241.44	271.2 -> 167	505.08	8 Doxylamine-D5	276.2 -> 187	5.798	1357535
EDDP	279.2 -> 235		6.185	135445	22756.79	-	42.46		282.2 -> 235	6.184	57116
Fentanyl	337.2 -> 105		6.316	31367	41.49	337.2 -> 188	T 477.07	7 Fentanyl-D5	342.3 -> 105	6.296	1580269
Fluoxetine	310.1 -> 44.3	-	6.403	322271	285.81	310.1 -> 148	52.03	3 Oxycodone-D6	322.2 -> 304	5.139	274178
Hydrocodone	300.2 -> 198		5.366	33067			83.58	8 Hydrocodone-D6	306.2 -> 202	5.344	215490
Hydromorphone	286.2 -> 184		4.779	19806	57.26		1 48.70	D Hydromorphone-D6	292.2 -> 185	4.738	67662
Ketamine	238.1 -> 125	-	5.885	88499	91.46		12.71	1 Ketamine-D4	242.1 -> 129	5.863	375770
Meprobamate	219.1 -> 158		5.641	18328	37.49	219.1 -> 97.1	17.63	3 Meprobamate-D7	226.2 -> 165	5.641	107265
Methadone	310.2 -> 265		6.484		641.42		<u> 191.51</u>	1 Methadone-D9	319.3 -> 268	6.483	1388099
Methamphetamine	150.1 -> 91.1		5.153		V Infinity		🗸 Infinity		161.2 -> 97.1	5.092	259308
Morphine	286.2 -> 201		4.498	4435	20.40	286.2 ->	T 12.53		292.2 -> 152	4.437	2802
Naloxone	328.2 -> 309		5.505	27046	16.99	328.2 ->	7 3670.99		333.2 -> 315	5.422	217993
Naltrexol	344.2 -> 326		5.116	100286	393.71		□ 42.20		347.2 -> 329	5.095	360554
Naltrexone	342.2 -> 324		5.258	52482	124.74	1	36.36		^	5.217	243096
Norbuprenorphine	414.3 -> 101		5.969	6766	76.49	414.3 ->	130.01		417.3 -> 101	5.968	36411
Nordiazepam	271.1 -> 140		6.574	27466	439.77	271.1 ->	T 42.78		276.1 -> 140	6.552	90539
Norfentanyl	233.2 -> 84.2		5.456	151652	1847.11	233.2 ->	T 109.55	5 Norfentanyl-D5	4	5.456	666435
Norhydrocodone	286.2 -> 199	-	5.124	2526 [330.08	286.2 -> 171	<u> </u>	1	289.2 -> 202	5.103	64627
Noroxycodone	302.1 -> 284		5.020	22762	30.66	302.1 -> 186	7 36.14	4 Noroxycodone-D3	305.2 -> 287	5.019	131512
O-desmethyl-tramadol	250.2 -> 58.3	9/12/2017 5:41 PM	5.047	193602	- Infinity		43.25	O-desmethyl-tramadol	256.2 -> 64.3	5.026	859413
Oxazepam	287.1 -> 240		6.406	22312	19.15	287.1 ->	T Infinity	y Oxazepam-D5	292.1 -> 246	6.386	119853
Oxycodone	316.2 -> 298		5.180	55632	45.22	316.2 -> 241	<u> </u>	8 Oxycodone-D6	322.2 -> 304	5.139	274178
Oxymorphone	302.1 -> 284		4.475	46447	317.82	302.1 -> 227	<u> </u> 8.72		305.2 -> 287	4.433	204020
Phentermine	150.1 -> 65.2	9/12/2017 5:41 PM	5.275		🗸 Infinity		🟹 Infinity	y Phentermine-D5	155.2 -> 96.2	5.255	336255
Promethazine	285.1 -> 86.2	9/12/2017 5:41 PM	6.550	425315	94864.66	285.1 -> 71.3	92.73		288.2 -> 89.2	6.528	2289244
Quetiapine	384.2 -> 253	384.2 -> 253 9/12/2017 5:41 PM	6.639	319543	87918.23	384.2 -> 221	4695.04	4 Quetiapine-D8	392.2 -> 226	6.598	404684

Compound Method	Aethod	p1 cal 1-2a	<u> </u>	o1 cal 1-2a Results	Results		Qualifier 1 M Qualifier 1 R	Qualifier 1 R.	ISTD Method	pot	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp. N	II	S/N	Transition MI	MI S/N	Name	Transition	RT	Resp.
Sertraline	306.1 -> 158	306.1 -> 158 9/12/2017 5:41 PM	6.689	67393		153.84	153.84 306.1 -> 275	T 11414	11414 Sertraline-D3	309.1 -> 275 6.687	6.687	340700
Sufentanil	387.2 -> 238	387.2 -> 238 9/12/2017 5:41 PM	6.699	27867)]	195.92	195.92 387.2 -> 111		60.29 Sufentanil-D5	392.2 -> 238 6.679	6.679	1021356
Temazepam	301.1 -> 255	301.1 -> 255 9/12/2017 5:41 PM	6.527	90568		122.26	122.26 301.1 -> 283 [17.95 Temazepam-D5	306.1 -> 260 6.527		424912
Tramadol	264.2 -> 58.3	264.2 -> 58.3 9/12/2017 5:41 PM	5.575	259296		132.57	132.57 264.2 -> 43.3		6.56 Tramadol-13C-D3	268.2 -> 58.3 5.554		1190777
Trazodone	372.2 -> 176	372.2 -> 176 9/12/2017 5:41 PM	6.782	320677 🦵		Infinity	Infinity 372.2 -> 148	Зč	354.50 Trazodone-D6	378.2 -> 182 6.761	6.761	1329965
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3 9/12/2017 5:41 PM	5.920	256268		4673.03	4673.03 278.2 -> 260		92.64 Venlafaxine-D6	284.2 -> 64.3 5.919 1217155	5.919	1217155
Zolpidem	308.2 -> 235	308.2 -> 235 9/12/2017 5:41 PM	6.384	269358		780.58	780.58 308.2 -> 263 1	1105.4	1105.41 Zolpidem-D6	314.2 -> 235 6.382 1353148	6.382	1353148

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Compound Method	thod	p1 negative		p1 negative Results	Results	Qualifier 1 M	Qual	Qualifier 1	ISTD Method	q	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp. N	MI S/N	Transition	Ī	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165	9/12/2017 6:01 PM				328.2 -> 211	L		6-MAM-D6	334.2 -> 165	5.219	41479
7-aminoclonazepam	286.1 -> 121	9/12/2017 6:01 PM		L		286.1 -> 222	L.		7-Aminoclonazepam-D4	^	5.571	111758
Acetyl Fentanyl	323.2 -> 105	9/12/2017 6:01 PM				323.2 -> 188			Acetyl Fentanyl-D5	^	6.093	11931
Acetyl Norfentanyl	219.1 -> 84.2		5.071	16	1.78	219.1 -> 56.3	<u> </u>	0.33	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.989	366676
a-hydroxyalprazolam	325.1 -> 297		6.643	127	0.51	325.1 -> 215		8.14	a-hydroxyalprazolam-D5	330.1 -> 302	6.378	37717
alpha-PVP	232.2 -> 91.0		5.804	372	1.41	232.2 -> 77.1	L	0.90	alpha-PVP-d8	240.2 -> 91.1	5.721	436449
Alprazolam	309.1 -> 281		6.322	2734	9.07			0.33	Alprazolam-D5	314.1 -> 286	6.484	204311
Amphetamine	136.1 -> 91.1		4.972	27698	10.01	136.1 -> 119	<u> </u>		Amphetamine-D11	147.2 -> 130	4.911	106257
Bupropion	240.1 -> 184		5.966	262	1.07	240.1 -> 131	L	4.51	Bupropion-D9	249.2 -> 185	5.945	428826
Carisoprodol	261.2 -> 176		6.229	19	0.25		1		Carisoprodol-D7	268.2 -> 183	6.126	360432
Citalopram	325.2 -> 109		6.155	469	0.35	325.2 -> 262	<u> </u>	0.39	Citalopram-D6	331.2 -> 109	6.175	790114
Clonazepam	316.1 -> 269		6.503	365	1.83		<u> </u>	0.89	Clonazepam-D4	320.1 -> 217	6.340	27794
Codeine	300.2 -> 215	1-		<u> </u>			L		Codeine-D6	306.2 -> 218	5.161	30291
Cyclobenzaprine	276.2 -> 214		6.552	38	0.53	276.2 -> 231			Cyclobenzaprine-D3	279.2 -> 215	6.490	440344
Dextromethorphan	272.2 -> 171	9/12/2017 6:01 PM	6.187	36	0.38	272.2 -> 147	L	0.42	Dextromethorphan-D3	275.2 -> 171	6.248	223105
Dextrorphan	258.2 -> 157	9/12/2017 6:01 PM	5.494	146	1.61	258.2 -> 133	L	0.43	Dextrorphan-D3	261.2 -> 157	5.555	182059
Diazepam	285.1 -> 193	9/12/2017 6:01 PM	6.590	1264	0.93	285.1 -> 153	L		Diazepam-D5	290.1 -> 198	6.690	155445
Dihydrocodeine	302.2 -> 198	9/12/2017 6:01 PM				302.2 -> 128	L		Dihydrocodeine-D6	308.2 -> 202	4.998	110098
Diphenhydramine	256.2 -> 167	9/12/2017 6:01 PM	6.148	195	0.96	256.2 -> 152	L		Diphenhydramine-D3	259.2 -> 167	6.148	12525
Doxylamine	271.2 -> 182	9/12/2017 6:01 PM	5.840	744	0.90	271.2 -> 167	L	1.69	Doxylamine-D5	276.2 -> 187	5.798	10535
EDDP	279.2 -> 235	9/12/2017 6:01 PM	6.287	28 [0.23	279.2 -> 250	L		EDDP-D3	282.2 -> 235	6.184	37518
Fentanyl	337.2 -> 105	9/12/2017 6:01 PM	6.438	370	3.57	337.2 -> 188	L		Fentanyl-D5	342.3 -> 105	6.296	11103
Fluoxetine	310.1 -> 44.3	9/12/2017 6:01 PM	6.363	403	2.18	310.1 -> 148		0.35	Oxycodone-D6	322.2 -> 304	5.159	230989
Hydrocodone	300.2 -> 198					300.2 -> 128			Hydrocodone-D6	306.2 -> 202	5.344	174551
Hydromorphone	286.2 -> 184		4.920	212	_ 0.92	286.2 -> 157	L	58.04	Hydromorphone-D6	292.2 -> 185	4.738	55917
Ketamine	238.1 -> 125		5.905	152	0.62	238.1 -> 220			Ketamine-D4	242.1 -> 129	5.863	279655
Meprobamate	219.1 -> 158		5.661	234	0.71	219.1 -> 97.1		0.64	Meprobamate-D7	226.2 -> 165	5.641	81852
Methadone	310.2 -> 265		6.179	227	0:00	310.2 -> 105	L	0.60	Methadone-D9	319.3 -> 268	6.483	10186
Methamphetamine	150.1 -> 91.1		5.174	41329	3.02	150.1 -> 119	L		Methamphetamine-D11	161.2 -> 97.1	5.092	263171
Morphine	286.2 -> 201		4.538	42	0.51	286.2 -> 165	L		Morphine-D6	292.2 -> 152	4.437	3403
Naloxone	328.2 -> 309								Naloxone-D5	333.2 -> 315	5.422	179751
Naitrexol	344.2 -> 326		5.238	4919	6.71				Naltrexol-D3	347.2 -> 329	5.095	293942
Naltrexone	342.2 -> 324		5.238	163	0.93	342.2 ->	L	0.90	Naltrexone-D3	345.2 -> 327	5.217	193985
Norbuprenorphine	414.3 -> 101			<u></u>		414.3 -> 57.3			Norbuprenorphine-D3	417.3 -> 101	5.968	26783
Nordiazepam	271.1 -> 140		6.513	44	0.48		L	1.35	Nordiazepam-D5	276.1 -> 140	6.552	76374
Norfentanyl	233.2 -> 84.2		5.436	124	1.50	233.2 -> 55.3	L	0.84	Norfentanyl-D5	238.2 -> 84.2	5.456	519636
Norhydrocodone	286.2 -> 199		5.104	211	2.85	286.2 -> 171		1.35	Norhydrocodone-D3	289.2 -> 202	5.103	54954
Noroxycodone	302.1 -> 284		5.020	696	0.71	302.1 -> 186		2.69	Noroxycodone-D3	305.2 -> 287	5.019	113810
O-desmethyl-tramadol	250.2 -> 58.3	******	5.088	847 [4.28	250.2 -> 42.3		2.09	O-desmethyl-tramadol	256.2 -> 64.3	5.026	683952
Oxazepam	287.1 -> 240		6.141	526	1.06	287.1 -> 268		1.37	Oxazepam-D5	292.1 -> 246	6.386	113723
Oxycodone	316.2 -> 298		5.200	170	0.87	316.2 -> 241	L		Oxycodone-D6	322.2 -> 304	5.159	230989
Oxymorphone	302.1 -> 284		4.776	52	1.78	302.1			Oxymorphone-D3	305.2 -> 287	4.453	166647
Phentermine	150.1 -> 65.2	9/12/2017 6:01 PM	5.174	7638	1.00	150.1 ->		126.27	Phentermine-D5	^	5.255	313047
Promethazine	285.1 -> 86.2		6.529	375	1.17	285.1 ->		0.51	Promethazine-D3	288.2 -> 89.2	6.528	15953
Quetiapine	384.2 -> 253	9/12/2017 6:01 PM	6.639	607	2.36	384.2 -> 221		1.46	Quetiapine-D8	392.2 -> 226	6.598	329306

ts 	à	592	057	759	960	98	992	1.1
ISTD Results	Resp.	244692	737057	377759	918660	10198.	907992	10551
ISTD	RT	6.687	6.679	6.527	5.575	6.761	5.919	6.362
pc	Transition	309.1 -> 275	392.2 -> 238	306.1 -> 260	268.2 -> 58.3	378.2 -> 182 6.761	284.2 -> 64.3 5.919	314.2 -> 235 6.362
ISTD Method	Name	Sertraline-D3	3.68 Sufentanil-D5	Temazepam-D5	Tramadol-13C-D3	1.38 Trazodone-D6	Venlafaxine-D6	1.66 Zolpidem-D6
ifier 1	S/N		3.68			1.38		1.66
Quali	Ī		L	L	L	L	L	
Qualifier 1 M Qualifier 1	Transition	0.43 306.1 -> 275	3.04 387.2 -> 111	0.52 301.1 -> 283	9.36 264.2 -> 43.3	2.04 372.2 -> 148	0.44 278.2 -> 260	1.60 308.2 -> 263
Qualifie	Tran	306.1 -	387.2 -	301.1 -	264.2 -	372.2 -	278.2 -	308.2 -
	S/N	0.43	3.04	0.52	9.36	2.04	0.44	1.60
Resi	Ī	L	L	L_	L		L	L
p1 negative Results	Resp.	163	666	323	6209	1574	142	1468
þ.	RT	6.749	6.719	6.568	5.575	6.802	5.940	6.607
p1 negative	Acq. Date-Time	306.1 -> 158 9/12/2017 6:01 PM	387.2 -> 238 9/12/2017 6:01 PM	301.1 -> 255 9/12/2017 6:01 PM	264.2 -> 58.3 9/12/2017 6:01 PM	372.2 -> 176 9/12/2017 6:01 PM	278.2 -> 58.3 9/12/2017 6:01 PM	308.2 -> 235 9/12/2017 6:01 PM
por	Transition	306.1 -> 158	387.2 -> 238	301.1 -> 255	264.2 -> 58.3	372.2 -> 176	278.2 -> 58.3	308.2 -> 235
Compound Method	Name	Sertraline	Sufentanil	Temazepam	Tramadol	Trazodone	Venlafaxine	Zolpidem

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Compound Method	pq	p2 cal 1-2b	d	p2 cal 1-2b Results	esults	Qualifier 1 M	Qualifi	Qualifier 1 R.	ISTD Method		ISTD F	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp. MI	II S/N	Transition	Ī	S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135		5.763	30406	248.21	284.1 -> 93.2		29.22	7-aminoflunitrazepam-D7	291.2 -> 138	5.740	161813
alpha-hydroxymidazolam	342.1 -> 324		6.468	79460	54.44			9591.86	alpha-hydroxymidazolam	346.1 -> 328	6.468	401858
Amitriptyline	278.2 -> 91.2		6.600	205182	Infinity	-		Infinity	Amitriptyline-D3	281.2 -> 91.2	6.598	562099
Amoxapine	314.1 -> 271		6.573	70545	20269	314.1 ->	1	13.94	Amitriptyline-D3	281.2 -> 91.2	6.598	562099
Benzoylecgonine	290.1 -> 168		5.373	13100	77.22	290.1 ->		5034.33	Benzoylecgonine-D8	298.2 -> 171	5.350	4561
Carbamazepine	237.1 -> 193		6.157	27914	6560.28	237.1 ->		156.76	Carbamazepine-13C6	243.1 -> 200	6.157	12442
Chiordiazepoxide	315 2 26 7	9/12/2017 5:51 PM	0.590	4360111	Infinity	/ 300.1 -> 282		Intinity 1	Chlordiazepoxide-D5	305.1 -> 286	6.595	308910
	2.00 ~- 2.01 0		0.030	4333/01	107.01		_ _ _ L	4/.21	Ciomipramine-U3	318.2 -> 89.2	6.836	21588
Cocaine	304.2 -> 182		190/.0	7070021	14/5.23			340.50	Cocaine-U3	307.2 -> 185	5.758	750826
	C.2/ ~- 2./02		0.4/8	29/0031					Uesipramine-U3	5.6/ <- 2.0/2	6.4/9	142/6
Doxepin	280.2 -> 10/		6.315	142129	78.09	280.2 ->		57870	Doxepin-D3	<u>^</u>	6.294	696170
			0.414	0/048 	16.126	<- 1.062		135.52	Estazolam-U5	<u>م</u>	6.412	302653
Fluntrazepam	314.1 -> 268 388.2 -> 315	9/12/2017 5:51 PM	6.451 5.20E	1006701	128.19	314.1 -> 239		3943.39	Flunitrazepam-D7	321.1 -> 245	6.430	9929
Iminramine	281 2 -> 86 2	0/12/2017 5-51 DM	0.000	100001		- 7000		1	Lupiciulie-U4 Iminiminin D3	1 330.1 -7 244	0.040	700777
l evamisole	2015 1 -> 91.2	9/12/2017 5-51 PM	5 324	47721				3130	Consine-D3	307 2 -> 185	0.007 5 758	750826
Maprotiline	278.2 -> 91.2	9/12/2017 5:51 PM	6 192	104614	Infinity	278.2 ->	0	Infinity	Meneridine-D4	201.2 -2 100	5 780	317788
MDA	180.1 -> 163		5.124	48261	Infinity	180.1 ->	-	44695	MDA-D5	185.1 -> 168	5.104	241997
MDEA	208.1 -> 163		5.386	104824	33430	208.1 ->		Infinity	MDEA-D6	214.2 -> 166	5.385	507616
MDMA	194.1 -> 163		5.244	86204	2991.33	8 194.1 -> 105		500.59	MDMA-D6	200.2 -> 166	5.244	42440
Meperidine	248.2 -> 220		5.809	66808	² 120.85	5 248.2 -> 174		13090	Meperidine-D4	252.2 -> 224	5.789	317288
Methylphenidate	234.2 -> 84.2		5.688	312157	73.99) 234.2 -> 56.3		Infinity	Meperidine-D4	252.2 -> 224	5.789	317288
Metoprolol	268.2 -> 116		5.560	29418	335.75	5 268.2 -> 56.3		169.55	Meperidine-D4	252.2 -> 224	5.789	317288
Midazolam	326.1 -> 223		6.632	29445	85.67			8955.70	Midazolam-D4	330.1 -> 295	6.631	468184
Mirtazapine	266.2 -> 195		6.317	225922	622.94	266.2 ->		546.78	Midazolam-D4	330.1 -> 295	6.631	468184
Mitragynine	399.2 -> 174		6.384	79293	227.66	3 399.2 -> 238		65.32	Carbamazepine-13C6	243.1 -> 200	6.157	12442
Normeperidine	234.1 -> 42.3	9/12/2017 5:51 PM	5.730	76487	Infinity	234.1 ->		352.50	Normeperidine-D4	238.2 -> 164	5.729	271731
Norpropoxyphene	326.2 -> 44.3	9/12/2017 5:51 PM	6.347	51373	1819.66		L	48.49	Norpropoxyphene-D5	331.2 -> 44.3	6.326	197927
Nortriptyline	264.2 -> 91.2		6.420	445422	1681.80			7100.42	Nortriptyline-D3	267.2 -> 233	6.520	471323
Ondansetron	294.2 -> 184		6.047	101117	16963			219.48	Pentazocine-13C3	289.2 -> 72.3	5.802	502516
Pentazocine	286.2 -> 218		5.803	130302	416.77	-		538.97	Pentazocine-13C3	289.2 -> 72.3	5.802	502516
Phenazepam	349.0 -> 206		6.508	62251	126.07			183.85	Phenazepam-D4	353.0 -> 183	6.507	21024
Phencyclidine	244.2 -> 86.2		6.055	201632	Infinity	244.2 ->		53.79	Phencydlidine-D5	249.2 -> 86.2	6.034	986814
Phenytoin	253.1 -> 104		6.053	4238	17.03	253.1 ->		13.68	Phenytoin-D10	4	6.053	19537
Prazepam	325.1 -> 2/1	9/12/2017 5:51 PM	6.956	2637511	693.95	325.1 ->		249.61	Prazepam-D5	330.1 -> 276	6.935	11400
Primidone	219.1 -> 91.2	9/12/2017 5:51 PM	5.446	7731	5.49	219.1 ->		18.18	Prazepam-D5	330.1 -> 276	6.935	11400
Propoxyphene	340.2 -> 58.3	9/12/2017 5:51 PM	6.407	290967	122.77	340.2 ->		163.89	Propoxyphene-D11	4	6.385	343089
Protriptyline	264.2 -> 155		6.420	711912	Infinity	264.2 ->	2	Infinity	Nortriptyline-D3	^	6.520	471323
Pseudoephedrine	166.1 -> 148		4.742	780849	787.48	166.1 ->		Infinity	Pseudoephedrine-D3	169.1 -> 151	4.742	352682
Tapentadol	222.2 -> 107		5.588	157815	135.09	222.2 ->		Infinity	Tapentadol-D3	225.2 -> 107	5.567	795612
Trimipramine	295.2 -> 100		6.658	509584	775.13	3 295.2 -> 58.3		Infinity	Trimipramine-D3	298.2 -> 103	6.637	24320
Verapamil	455.3 -> 165	9/12/2017 5:51 PM	6.383	220996	628.09	455.3 ->		3928	Trimipramine-D3	298.2 -> 103	6.637	24320
Zaleplon	306.1 -> 236	9/12/2017 5:51 PM	6.248	69133	369.18	306.1 ->		908.67	Zaleplon-D4	310.2 -> 240	6.247	273419
Zopiclone	389.1 -> 244	389.1 -> 244 9/12/2017 5:51 PM	6.364	54682	[189.69	9 389.1 -> 216		119.95	Zopiclone-D4	393.1 -> 244	6.343	222652
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Compound Method	p	p2 negative		p2 negative Results	Results	Qualifier 1 M		Qualifie	ISTD Method		ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp.	MI S/N	Transition	Ī	S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135	9/12/2017 6:10 PM				284.1 -> 93.2			7-aminoflunitrazepam-D7	291.2 -> 138	5.740	167187
alpha-hydroxymidazolam	342.1 -> 324					342.1 -> 203			alpha-hydroxymidazolam	346.1 -> 328	6.447	346180
Amitriptyline	278.2 -> 91.2					278.2 -> 105			Amitriptyline-D3	281.2 -> 91.2	6.578	401343
Amoxapine	314.1 -> 271					314.1 -> 193			Amitriptyline-D3	281.2 -> 91.2	6.578	401343
Benzoylecgonine	290.1 -> 168					^			Benzoylecgonine-D8	298.2 -> 171	5.350	5596
Carbamazepine	237.1 -> 193					^			Carbamazepine-13C6	243.1 -> 200	6.136	963499
Chlordiazepoxide	300.1 -> 227					300.1 -> 282			Chlordiazepoxide-D5	305.1 -> 286	6.575	230872
Clomipramine	315.2 -> 86.2					315.2 -> 58.3	L		Clomipramine-D3	318.2 -> 89.2	6.836	13428
Cocaine	304.2 -> 182			10000		304.2 -> 105	L		Cocaine-D3	307.2 -> 185	5.738	588764
Desipramine	267.2 -> 72.3	9/12/2017 6:10 PM	6.500	2849	Г 10.82	2 267.2 -> 44.3	L	7.40	Desipramine-D3	270.2 -> 75.3	6.479	10258
Doxepin	280.2 -> 107	9/12/2017 6:10 PM				280.2 -> 77.2			Doxepin-D3	283.2 -> 107	6.294	486639
Estazolam	295.1 -> 267	9/12/2017 6:10 PM				295.1 -> 205	L		Estazolam-D5	300.1 -> 272	6.392	252150
Flunitrazepam	314.1 -> 268	9/12/2017 6:10 PM				314.1 -> 239			Flunitrazepam-D7	321.1 -> 245	6.430	8482
Flurazepam	388.2 -> 315					388.2 -> 317			Zopiclone-D4	393.1 -> 244	6.343	156067
Imipramine	281.2 -> 86.2	9/12/2017 6:10 PM	6.558	2702	22.05	5 281.2 -> 58.3	L		Imipramine-D3	284.2 -> 61.3	6.537	874800
Levamisole	205.1 -> 91.2	9/12/2017 6:10 PM				205.1 -> 178			Cocaine-D3	307.2 -> 185	5.738	588764
Maprotiline	278.2 -> 91.2	9/12/2017 6:10 PM				278.2 -> 117	<u> </u>		Meperidine-D4	252.2 -> 224	5.789	245514
MDA	180.1 -> 163					180.1 -> 105			MDA-D5	185.1 -> 168	5.104	190953
MDEA	208.1 -> 163					208.1 -> 105			MDEA-D6	214.2 -> 166	5.364	379955
MDMA	194.1 -> 163	9/12/2017 6:10 PM				194.1 -> 105	L	•	MDMA-D6	200.2 -> 166	5.224	32096
Meperidine	248.2 -> 220					248.2 -> 174	<u>l</u>		Meperidine-D4	252.2 -> 224	5.789	245514
Methylphenidate	234.2 -> 84.2	{·				234.2 -> 56.3	<u> </u>		Meperidine-D4	252.2 -> 224	5.789	245514
Metoprolol	268.2 -> 116					268.2 -> 56.3			Meperidine-D4	252.2 -> 224	5.789	245514
Midazolam	326.1 -> 223					326.1 -> 249	L		Midazolam-D4	330.1 -> 295	6.611	366196
Mirtazapine	266.2 -> 195	9/12/2017 6:10 PM				266.2 -> 72.3			Midazolam-D4	330.1 -> 295	6.611	366196
Mitragynine	399.2 -> 174			-021000	1	399.2 -> 238			Carbamazepine-13C6	243.1 -> 200	6.136	963499
Normeperidine	234.1 -> 42.3	9/12/2017 6:10 PM				234.1 -> 160	<u> </u>		Normeperidine-D4	238.2 -> 164	5.729	192291
Norpropoxyphene	326.2 -> 44.3	9/12/2017 6:10 PM				326.2 -> 252	<u> </u>		Norpropoxyphene-D5	331.2 -> 44.3	6.326	142827
Nortriptyline	264.2 -> 91.2		6.542	3519	21.62	2 264.2 -> 233			Nortriptyline-D3	267.2 -> 233	6.520	353877
Ondansetron	294.2 -> 184					294.2 -> 212			Pentazocine-13C3	289.2 -> 72.3	5.802	392150
Pentazocine	286.2 -> 218					286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.802	392150
Phenazepam	349.0 -> 206					349.0 -> 183	<u> </u>		Phenazepam-D4	353.0 -> 183	6.507	18462
Phencyclidine	244.2 -> 86.2					^			Phencydlidine-D5	249.2 -> 86.2	6.034	765784
Phenytoin	253.1 -> 104					253.1 -> 182			Phenytoin-D10	263.2 -> 192	6.053	12481
Prazepam	325.1 -> 271					325.1 -> 140			Prazepam-D5	330.1 -> 276	6.935	796001
Primidone	219.1 -> 91.2	9/12/2017 6:10 PM				219.1 -> 162	L		Prazepam-D5	330.1 -> 276	6.935	796001
Propoxyphene	340.2 -> 58.3					340.2 -> 266			Propoxyphene-D11	351.3 -> 277	6.365	241307
Protriptyline	264.2 -> 155	9/12/2017 6:10 PM				264.2 -> 161			Nortriptyline-D3	267.2 -> 233	6.520	353877
Pseudoephedrine	166.1 -> 148	9/12/2017 6:10 PM				166.1 -> 133	<u>l</u>		Pseudoephedrine-D3	169.1 -> 151	4.722	273262
Tapentadol	222.2 -> 107	9/12/2017 6:10 PM				222.2 -> 121	<u> </u>		Tapentadol-D3	225.2 -> 107	5.567	578121
Trimipramine	295.2 -> 100					295.2 -> 58.3	<u> </u>		Trimipramine-D3	298.2 -> 103	6.637	16802
Verapamil	455.3 -> 165					455.3 -> 150			Trimipramine-D3	298.2 -> 103	6.637	16802
Zaleplon	306.1 -> 236	9/12/2017 6:10 PM				306.1 -> 264			Zaleplon-D4	310.2 -> 240	6.247	208787
Zopiclone	389.1 -> 244	389.1 -> 244 9/12/2017 6:10 PM				389.1 -> 216	1		Zopiclone-D4	393.1 -> 244	6.343	156067
										V	~~	

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Compound Method	7	p2 external control	p2 exter	external co	rnal control Results	sults	Qualifier 1 M	Qualifier 1	ISTD Method		ISTD I	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp.	Ī	S/N	Transition	MI S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135	9/12/2017 6:30 PM					284.1 -> 93.2		7-aminoflunitrazepam-D7	291.2 -> 138	5.740	23095
alpha-hydroxymidazolam	342.1 -> 324				 L		342.1 -> 203		alpha-hydroxymidazolam	346.1 -> 328	6.468	38220
Amitriptyline	278.2 -> 91.2	9/12/2017 6:30 PM	6.600	15817		1812.82	278.2 -> 105	The Infinity	-222	281.2 -> 91.2	6.578	47327
Amoxapine	314.1 -> 271				L		314.1 -> 193		Amitriptyline-D3	281.2 -> 91.2	6.578	47327
Benzoylecgonine	290.1 -> 168	9/12/2017 6:30 PM					290.1 -> 105		Benzoylecgonine-D8	298.2 -> 171	5.350	565
Carbamazepine	237.1 -> 193				 L.,,,,		237.1 -> 194		Carbamazepine-13C6	243.1 -> 200	6.157	10628
Chlordiazepoxide	300.1 -> 227						300.1 -> 282		Chlordiazepoxide-D5	305.1 -> 286	6.595	25239
Clomipramine	315.2 -> 86.2	9/12/2017 6:30 PM			 J		315.2 -> 58.3		Clomipramine-D3	318.2 -> 89.2	6.836	18429
Cocaine	304.2 -> 182	9/12/2017 6:30 PM					304.2 -> 105		Cocaine-D3	307.2 -> 185	5.738	64557
Desipramine	267.2 -> 72.3						267.2 -> 44.3		Desipramine-D3	270.2 -> 75.3	6.479	13003
Doxepin	280.2 -> 107						280.2 -> 77.2	L	Doxepin-D3	283.2 -> 107	6.294	57831
Estazolam	295.1 -> 267						295.1 -> 205		Estazolam-D5	300.1 -> 272	6.392	27904
Flunitrazepam	314.1 -> 268				 L		314.1 -> 239	<u> </u>	Flunitrazepam-D7	321.1 -> 245	6.430	934
Flurazepam	388.2 -> 315						388.2 -> 317		Zopiclone-D4	393.1 -> 244	6.343	14787
Imipramine	281.2 -> 86.2	9/12/2017 6:30 PM	6.558	2759		21.77	281.2 -> 58.3		Imipramine-D3	284.2 -> 61.3	6.537	10529
Levamisole	205.1 -> 91.2	9/12/2017 6:30 PM					205.1 -> 178		Cocaine-D3	307.2 -> 185	5.738	64557
Maprotiline	278.2 -> 91.2						278.2 -> 117		Meperidine-D4	252.2 -> 224	5.789	28522
MDA	180.1 -> 163						180.1 -> 105		MDA-D5	185.1 -> 168	5.104	21187
MDEA	208.1 -> 163						208.1 -> 105		MDEA-D6	214.2 -> 166	5.385	42303
MDMA	194.1 -> 163				-		194.1 -> 105	<u> </u>	MDMA-D6	200.2 -> 166	5.224	3552
Meperidine	248.2 -> 220						248.2 -> 174	<u> </u>	Meperidine-D4	252.2 -> 224	5.789	28522
Methylphenidate	234.2 -> 84.2	-					234.2 -> 56.3		Meperidine-D4	252.2 -> 224	5.789	28522
Metoprolol	268.2 -> 116						268.2 -> 56.3		Meperidine-D4	252.2 -> 224	5.789	28522
Midazolam	326.1 -> 223						326.1 -> 249	L	Midazolam-D4	330.1 -> 295	6.631	37838
Mirtazapine	266.2 -> 195	9/12/2017 6:30 PM	6.297	16964		Infinity	266.2 -> 72.3	<u> </u>	. Midazolam-D4	330.1 -> 295	6.631	37838
Mitragynine	399.2 -> 174	9/12/2017 6:30 PM					399.2 -> 238	L	Carbamazepine-13C6	243.1 -> 200	6.157	10628
Normeperidine	234.1 -> 42.3	9/12/2017 6:30 PM					234.1 -> 160		Normeperidine-D4	238.2 -> 164	5.729	22709
Norpropoxyphene	326.2 -> 44.3	9/12/2017 6:30 PM			L		326.2 -> 252	L	Norpropoxyphene-D5	331.2 -> 44.3	6.326	16446
Nortriptyline	264.2 -> 91.2	9/12/2017 6:30 PM	6.521	4249		Infinity	264.2 -> 233		Nortriptyline-D3	267.2 -> 233	6.520	33612
Ondansetron	294.2 -> 184						294.2 -> 212	<u> </u>	Pentazocine-13C3	289.2 -> 72.3	5.802	47428
Pentazocine	286.2 -> 218				<u> </u>		286.2 -> 41.3	<u> </u>	Pentazocine-13C3	289.2 -> 72.3	5.802	47428
Phenazepam	349.0 -> 206						349.0 -> 183	<u> </u>	Phenazepam-D4	353.0 -> 183	6.507	2165
Phencyclidine	244.2 -> 86.2				L		244.2 -> 91.1		Phencydlidine-D5	249.2 -> 86.2	6.034	80836
Phenytoin	253.1 -> 104						253.1 -> 182		Phenytoin-D10	263.2 -> 192	6.053	1568
Prazepam	325.1 -> 271						325.1 -> 140	1	Prazepam-D5	330.1 -> 276	6.935	91706
Primidone	219.1 -> 91.2	9/12/2017 6:30 PM					219.1 -> 162		Prazepam-D5	330.1 -> 276	6.935	91706
Propoxyphene	340.2 -> 58.3						340.2 -> 266		Propoxyphene-D11	351.3 -> 277	6.385	28302
Protriptyline	264.2 -> 155						264.2 -> 161	L	Nortriptyline-D3	267.2 -> 233	6.520	33612
Pseudoephedrine	166.1 -> 148						166.1 -> 133	L	Pseudoephedrine-D3	169.1 -> 151	4.722	34086
Tapentadol	222.2 -> 107						222.2 -> 121	L	Tapentadol-D3	225.2 -> 107	5.567	64091
Trimipramine	295.2 -> 100						295.2 -> 58.3		Trimipramine-D3	298.2 -> 103	6.637	21035
Verapamil	455.3 -> 165						455.3 -> 150	L	Trimipramine-D3	298.2 -> 103	6.637	21035
Zaleplon	306.1 -> 236	9/12/2017 6:30 PM					306.1 -> 264	<u> </u>	Zalepion-D4	310.2 -> 240	6.247	22561
Zopiclone	389.1 -> 244	389.1 -> 244 9/12/2017 6:30 PM					389.1 -> 216	1	Zopiclone-D4	393.1 -> 244	6.343	14787
										Ø		

ISP Forensic Services: Toxicology Discipline

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

Extraction Date: 9-12-17 Analyst: Anne Word

PRE-ANALYTIC

Plate Lo	ot# Custom THC plate: 0499102 Plate Exp: 1/29/2018
$\sim 1.$	Ensure all solutions are within expiration date.
	 Mobile Phase A: 10mM Amm Formate Mobile Phase B: 0.1% FA in MeOH 0.1% Formic Acid in water MTBE
<u>ŕ</u>	 Blank/Negative Blood: Lot 321632-1 Column: Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)
<u> </u>	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: 91217 blood screen Am 25-26
ANALYI	ΓΙΟ
<u>1.</u>	Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
<i>~/</i> 2.	Add 1000 µL blood (calibrated pipette) to wells of analytical (standards) plate.
	Blank blood for locations containing standards/QCs and internal standards
ſ	Sample blood for locations containing only internal standards
<u> </u>	Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID 66759
<u> </u>	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)
- Add 2.25mL Hexane and allow to flow under gravity for 5 minutes. (add in 3 increments of 750uL) 10.
- Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left) 11.
- Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID 66819 12.
- 13. Reconstitute in 100 µL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

POST-ANALYTIC

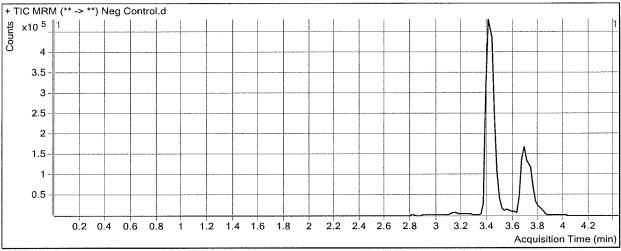
$\int 1$.	Open quantitation software and create a new quantitation batch.	Batch name:	9 1217	(ann	scrach	

- Make any necessary integration changes.
- For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC and +/- 2% or +/- 0.100 min (whichever is greater) retention time of calibrators?
- Did QCs pass for each analyte? Y / N * 4.
 - Central File Packet to include: \checkmark LIMS Worklist: Method Checklist 5. Calibration and Control Reports

Comments:

Batch Data Path Analysis Time Report Time Last Calib Update	D:\2017 Data\91217 blo 9/13/2017 7:56 AM 9/13/2017 8:00 AM 9/13/2017 7:56 AM	od screen AM 25-26 Analyst Name Reporter Name Batch State	i\QuantResults\91217 cann screen.batch.bin ISP Tox ISP Tox Processed
Analysis Info			
Acq Time	2017-09-12 13:11	Data File	Neg Control.d
Sample Type	Sample	Sample Name	Neg Control
Dilution	1	Acq Method	Screen THC 8-2017.m
Position	P1-a2	Sample Info	
Inj Vol	-1	Comment	AM 26 Cannabinoid screen negative blood lot 32632-1

Sample Chromatogram



Results

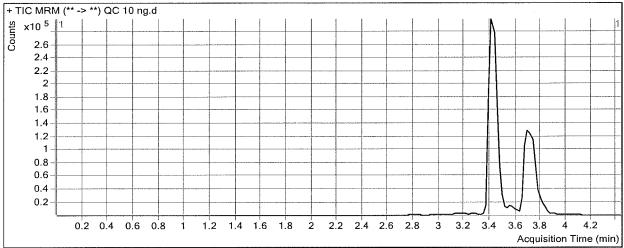
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	18267	1594202	0.0115	0.2782
THC-COOH	3.386	19387	345339	0.0561	2.0590

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Batch Data Path	D:\2017 Data\91217 bl	ood screen AM 25-26	i\QuantResults\91217 cann screen.batch.bin
Analysis Time	9/13/2017 7:56 AM	Analyst Name	ISP Tox
Report Time	9/13/2017 8:00 AM	Reporter Name	ISP Tox
Last Calib Update	9/13/2017 7:56 AM	Batch State	Processed
Analysis Info			
Acq Time	2017-09-12 13:31	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



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	90401	909208	0.0994	9.8008
THC-COOH	3.446	31894	176730	0.1805	7.6514
THC	3.760	4374	45138	0.0969	9.8705

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\91217 blood screen AM 25-26\QuantResults\91217 cann screen.batch.bin

Last Calib Update

9/13/2017 7:56 AM

Analyst Name

ISP TOX

THC-OH Target Compound ТНС-ОН-d3 Internal Standard THC-OH - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 1 QCs 2.4 y = 0.009238 * x + 0.008888 R*2 = 0.99941 139 Relative Responses 2.2 - Type:Linear, Origin:Ignore, Weight:1/x-2-1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 0.2 0 200 240 260 ò 20 40 60 80 100 120 140 160 180 220 Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	\square	5	4.9	98.9
cal 3 - 10ng	3	\square	10	10.1	101.3
QC 10 ng	3	☑	10	9.8	98.0
cal 4 - 25ng	4	\square	25	25.8	103.0
cal 5 - 50ng	5	\square	50	49.5	99.1
cal 6 - 100ng	6	Ø	100	96.4	96.4
cal 7 - 250ng	7		250	253.2	101.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\91217 blood screen AM 25-26\QuantResults\91217 cann screen.batch.bin

Last Calib Update

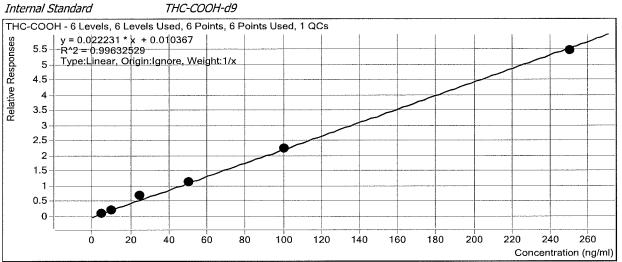
9/13/2017 7:56 AM

THC-COOH

Analyst Name

ISP TOX

Target Compound Internal Standard



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	\square	5	4.6	91.8
cal 3 - 10ng	3	\square	10	8.8	88.0
QC 10 ng	3	\square	10	7.7	76.5
cal 4 - 25ng	4	\square	25	29.9	119.6
cal 5 - 50ng	5	\square	50	50.7	101.5
cal 6 - 100ng	6	\square	100	101.1	101.1
cal 7 - 250ng	7	\square	250	244.9	97.9



ISP Forensics Calibration Curve Report

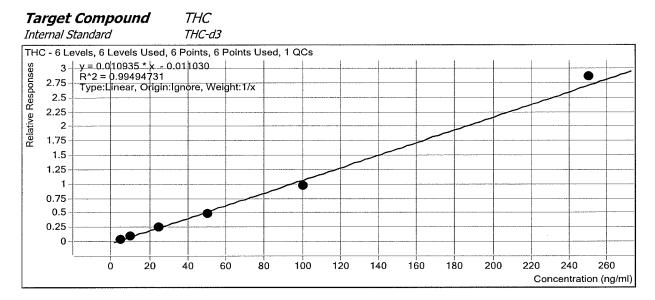
Batch Data Path D:\2017 Data\91217 blood screen AM 25-26\QuantResults\91217 cann screen.batch.bin

Last Calib Update

9/13/2017 7:56 AM

Analyst Name

ISP TOX

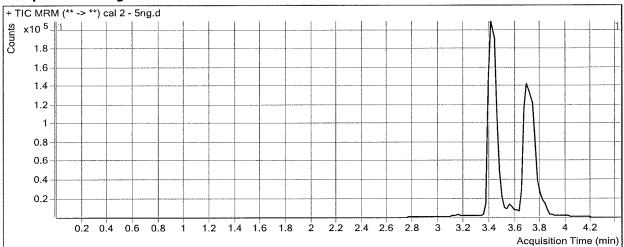


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	\square	5	5.5	109.8
cal 3 - 10ng	3	\square	10	10.4	104.2
QC 10 ng	3	\square	10	9.9	98.7
cal 4 - 25ng	4	\square	25	24.3	97.2
cal 5 - 50ng	5	\square	50	46.4	92.7
cal 6 - 100ng	6	\square	100	91.1	91.1
cal 7 - 250ng	7	\square	250	262.3	104.9



Batch Data Path Analysis Time Report Time Last Calib Update	D:\2017 Data\91217 blo 9/13/2017 7:56 AM 9/13/2017 8:00 AM 9/13/2017 7:56 AM	ood screen AM 25-26 Analyst Name Reporter Name Batch State	S\QuantResults\91217 cann screen.batch.bin ISP Tox ISP Tox Processed
Analysis Info			
Acq Time	2017-09-12 12:38	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

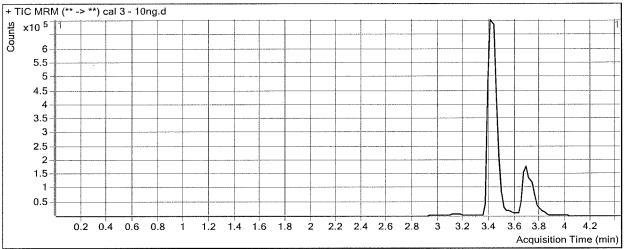
Sample Chromatogram



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	36381	666755	0.0546	4.9444
THC-COOH	3.446	16376	145636	0.1124	4.5917
THC	3.760	2329	47516	0.0490	5,4917

Batch Data Path	D:\2017 Data\91217 bl	ood screen AM 25-26	\QuantResults\91217 cann screen.batch.bin
Analysis Time	9/13/2017 7:56 AM	Analyst Name	ISP Tox
Report Time	9/13/2017 8:00 AM	Reporter Name	ISP Tox
Last Calib Update	9/13/2017 7:56 AM	Batch State	Processed
Analysis Info			
Acq Time	2017-09-12 12:45	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

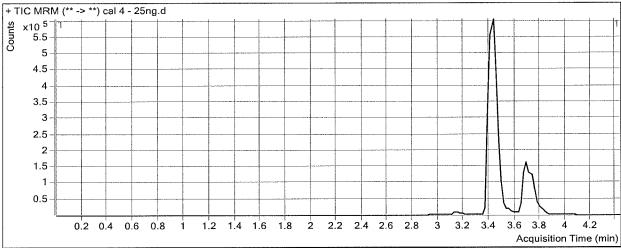
Sample Chromatogram



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	214459	2092540	0.1025	10.1320
THC-COOH	3.446	133484	647818	0.2061	8.8024
THC	3.760	4776	46404	0.1029	10.4217

Batch Data Path Analysis Time Report Time Last Calib Update	D:\2017 Data\91217 blc 9/13/2017 7:56 AM 9/13/2017 8:00 AM 9/13/2017 7:56 AM	ood screen AM 25-26 Analyst Name Reporter Name Batch State	ö\QuantResults\91217 cann screen.batch.bin ISP Tox ISP Tox Processed
Analysis Info Acq Time Sample Type	2017-09-12 12:52 Calibration	Data File Sample Name	cal 4 - 25ng.d cal 4 - 25ng
Dilution Position Inj Vol	1 P1-D1 -1	Acq Method Sample Info Comment	Screen THC 8-2017.m AM 26 Cannabinoid screen

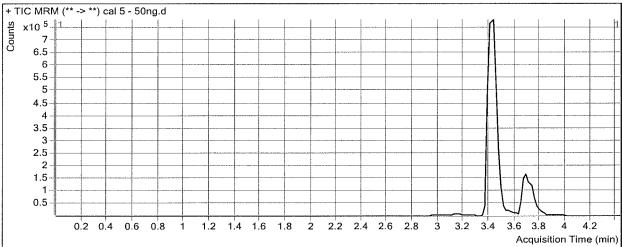
Sample Chromatogram



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	375198	1519819	0.2469	25.7612
THC-COOH	3.446	297030	439900	0.6752	29,9066
THC	3.760	10307	40473	0.2547	24.2973

Batch Data Path	D:\2017 Data\91217 blo	ood screen AM 25-26	i\QuantResults\91217 cann screen.batch.bin
Analysis Time	9/13/2017 7:56 AM	Analyst Name	ISP Tox
Report Time	9/13/2017 8:00 AM	Reporter Name	ISP Tox
Last Calib Update	9/13/2017 7:56 AM	Batch State	Processed
Analysis Info			
Acq Time	2017-09-12 12:58	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

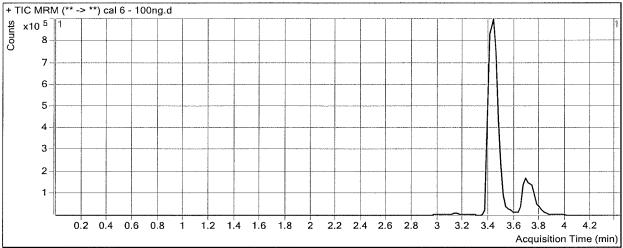
Sample Chromatogram



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	793707	1701593	0.4664	49.5304
THC-COOH	3.446	461120	405086	1.1383	50.7381
THC	3.760	21011	42371	0.4959	46.3566

Batch Data Path	D:\2017 Data\91217 bl	ood screen AM 25-26	i\QuantResults\91217 cann screen.batch.bin
Analysis Time	9/13/2017 7:56 AM	Analyst Name	ISP Tox
Report Time	9/13/2017 8:00 AM	Reporter Name	ISP Tox
Last Calib Update	9/13/2017 7:56 AM	Batch State	Processed
Analysis Info			
Acq Time	2017-09-12 13:05	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

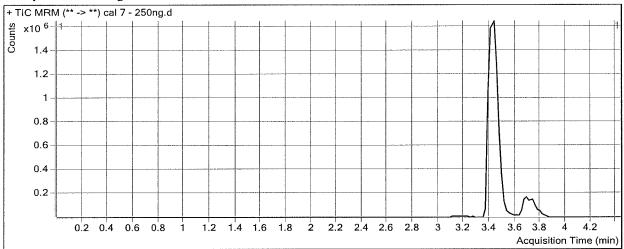
Sample Chromatogram



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	1329815	1478682	0.8993	96.3886
THC-COOH	3.446	814358	360699	2.2577	101.0909
THC	3.760	45717	46395	0.9854	91.1224

Batch Data Path	D:\2017 Data\91217 blo	ood screen AM 25-26	i\QuantResults\91217 cann screen.batch.bin
Analysis Time	9/13/2017 7:56 AM	Analyst Name	ISP Tox
Report Time	9/13/2017 8:00 AM	Reporter Name	ISP Tox
Last Calib Update	9/13/2017 7:56 AM	Batch State	Processed
Analysis Info			
Acq Time	2017-09-12 13:18	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



Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	3550877	1512075	2.3483	253.2434
THC-COOH	3.446	1635673	299899	5.4541	244.8703
THC	3.760	126042	44112	2.8573	262.3102

