


























Worklist: 1705

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-0577	1	80257	AM 25/AM 26 Blood MultiDrug/	
C2017-0651	1	81114	AM 25/AM 26 Blood MultiDrug/	
C2017-0652	1	81116	AM 25/AM 26 Blood MultiDrug/	
C2017-0668	1	81519	AM 25/AM 26 Blood MultiDrug/	
C2017-0693	1	81713	AM 25/AM 26 Blood MultiDrug/	
C2017-0695	1	81722	AM 25/AM 26 Blood MultiDrug/	
C2017-0696	1	81724	AM 25/AM 26 Blood MultiDrug/	
C2017-0704	1	81793	AM 25/AM 26 Blood MultiDrug/	
C2017-0708	1	81888	AM 25/AM 26 Blood MultiDrug/	
C2017-0709	1	81895	AM 25/AM 26 Blood MultiDrug/	
C2017-0710	1	81913	AM 25/AM 26 Blood MultiDrug/	
C2017-0718	2	83121	AM 25/AM 26 Blood MultiDrug/	
C2017-0745	1	82328	AM 25/AM 26 Blood MultiDrug/	
C2017-0746	1	82330	AM 25/AM 26 Blood MultiDrug/	
C2017-0751	1	82375	AM 25/AM 26 Blood MultiDrug/	
C2017-0755	1	82384	AM 25/AM 26 Blood MultiDrug/	
C2017-0756	1	82387	AM 25/AM 26 Blood MultiDrug/	
C2017-0801	1	83281	AM 25/AM 26 Blood MultiDrug/	
C2017-0809	1	83320	AM 25/AM 26 Blood MultiDrug/	
M2017-0736	3.1	83518	AM 25/AM 26 Blood MultiDrug/	
M2017-0908	1	81720	AM 25/AM 26 Blood MultiDrug/	
M2017-1221	1	82301	AM 25/AM 26 Blood MultiDrug/	
M2017-1246	12	82773	AM 25/AM 26 Blood MultiDrug/	



Worklist: 1705

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2017-1435	1	80906	AM 25/AM 26 Blood MultiDrug/	
M2017-1456	3	81630	AM 25/AM 26 Blood MultiDrug/	
M2017-1456	4	83461	AM 25/AM 26 Blood MultiDrug/	
M2017-1456	5	83462	AM 25/AM 26 Blood MultiDrug/	
M2017-1546	1	83118	AM 25/AM 26 Blood MultiDrug/	
M2017-1585	1	83117	AM 25/AM 26 Blood MultiDrug/	
M2017-1640	2	82373	AM 25/AM 26 Blood MultiDrug/	
M2017-1645	1	81804	AM 25/AM 26 Blood MultiDrug/	
M2017-1645	2	83517	AM 25/AM 26 Blood MultiDrug/	
M2017-1763	3	82972	AM 25/AM 26 Blood MultiDrug/	
P2017-0910	1	83122	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 5/1/17 Analyst: B. Wylie

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: 5-1-17 blood screen AM25-26

ANALYTIC

- ✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- ✓ 2. Pipette **250µL blood** in 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 **250µL 0.5M ammonium hydroxide** buffer in wells of analytical (standards) 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

- ~~X~~ 1. Open quantitation software and create a new quantitation batch. Batch name: 5-1-17 MDS Panel 1
- ~~X~~ 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:

BW

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



Compound Method				p1 negative				p1 negative Results				ISTD Method					
Name	Transition	CF	P2	Acq. Date-Time	Pos	RT	Resp.	S/N	Qualifier 1 M...	Transition	Ratio	S/N	Qualifier 1 Re...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...		P2...	5/2/2017 12:12 PM	P2...	5.755	120	0.69	328.2 -> 211...	60.7	0.95	6.07	6-MAM-D6	334.2 -> 165...	5.502	59450	
7-Aminoclonazepam	286.1 -> 121...		P2...	5/2/2017 12:12 PM	P2...	6.399	540	4.25	323.2 -> 188...				7-Aminoclonazepam-D4	290.1 -> 121...	5.500	158735	
Acetyl Fentanyl	323.2 -> 105...		P2...	5/2/2017 12:12 PM	P2...	5.091	100	1.18	219.1 -> 56.3	109.6	1.57	1.57	Acetyl Fentanyl-D5	328.2 -> 105...	6.357	16281...	
Acetyl Nortentanyl	219.1 -> 84.2		P2...	5/2/2017 12:12 PM	P2...	6.662	15	0.56	325.1 -> 215...	234.7	0.56	0.56	Acetyl Nortentanyl-D5	224.2 -> 84.2	5.070	489196	
a-hydroxyalprazolam	325.1 -> 297...		P2...	5/2/2017 12:12 PM	P2...	6.007	573	1.08	232.2 -> 77.1				a-hydroxyalprazolam-D5	330.1 -> 302...	6.459	51113	
alpha-PVP	232.2 -> 91.0		P2...	5/2/2017 12:12 PM	P2...	6.383	2876	4.77	309.1 -> 205...	2.6	0.34	0.34	alpha-PVP-d8	240.2 -> 91.1	5.944	625565	
Alprazolam	309.1 -> 281...		P2...	5/2/2017 12:12 PM	P2...	4.992	52777	Infinity	136.1 -> 119...	4.6	Infini...	Infini...	Alprazolam-D5	314.1 -> 286...	6.545	240668	
Amphetamine	136.1 -> 91.1		P2...	5/2/2017 12:12 PM	P2...	6.291	486	6.31	240.1 -> 131...				Amphetamine-D11	147.2 -> 130...	4.992	122689	
Bupropion	240.1 -> 184...		P2...	5/2/2017 12:12 PM	P2...	6.085	71	1.34	261.2 -> 55.3	446.7	0.30	0.30	Bupropion-D9	249.2 -> 185...	6.168	464304	
Carisoprodol	261.2 -> 176...		P2...	5/2/2017 12:12 PM	P2...	6.338	556	1.38	325.2 -> 262...	19.4	0.58	0.58	Carisoprodol-D7	268.2 -> 183...	6.166	405269	
Chllopram	325.2 -> 109...		P2...	5/2/2017 12:12 PM	P2...	6.381	102	0.43	316.1 -> 213...				Chllopram-D6	331.2 -> 109...	6.255	987312	
Clonazepam	316.1 -> 269...		P2...	5/2/2017 12:12 PM	P2...	6.381	102	0.43	316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.401	26284	
Codeine	300.2 -> 215...		P2...	5/2/2017 12:12 PM	P2...	6.612	123	1.24	276.2 -> 231...	102.6	1.78	1.78	Codeine-D6	306.2 -> 218...	5.485	47553	
Cyclobenzaprine	276.2 -> 214...		P2...	5/2/2017 12:12 PM	P2...	6.369	200	0.79	272.2 -> 147...				Cyclobenzaprine-D3	279.2 -> 215...	6.612	615282	
Dextromethorphan	272.2 -> 171...		P2...	5/2/2017 12:12 PM	P2...	6.935	369	0.33	285.1 -> 153...				Dextromethorphan-D3	275.2 -> 171...	6.359	281298	
Dextrophan	258.2 -> 157...		P2...	5/2/2017 12:12 PM	P2...	5.880	705	0.70	258.2 -> 133...				Dextrophan-D3	261.2 -> 157...	5.656	243427	
Diazepam	285.1 -> 193...		P2...	5/2/2017 12:12 PM	P2...	6.286	210	0.70	302.2 -> 128...				Diazepam-D5	290.1 -> 198...	6.751	184607	
Dihydrocodeine	302.2 -> 198...		P2...	5/2/2017 12:12 PM	P2...	5.880	705	0.70	271.2 -> 167...	133.4	0.93	0.93	Dihydrocodeine-D6	308.2 -> 202...	5.241	142405	
Diphenhydramine	256.2 -> 167...		P2...	5/2/2017 12:12 PM	P2...	6.286	210	0.70	271.2 -> 250...	15.1	1.20	1.20	Diphenhydramine-D3	259.2 -> 167...	6.249	16490...	
Doxylamine	271.2 -> 182...		P2...	5/2/2017 12:12 PM	P2...	6.464	431	0.49	310.1 -> 148...				Doxylamine-D5	276.2 -> 187...	5.899	14504...	
EDDP	279.2 -> 235...		P2...	5/2/2017 12:12 PM	P2...	6.464	431	0.49	310.1 -> 148...				EDDP-D3	282.2 -> 235...	6.244	24047	
Fentanyl	337.2 -> 105...		P2...	5/2/2017 12:12 PM	P2...	6.464	431	0.49	310.1 -> 148...				Fentanyl-D5	342.3 -> 105...	6.519	15710...	
Fluoxetine	310.1 -> 44.3		P2...	5/2/2017 12:12 PM	P2...	6.481	4125	12.04	321.0 -> 303...	161.2	2.36	2.36	Fluoxetine-D6	316.2 -> 44.3	6.463	14823...	
lorazepam	321.0 -> 229...		P2...	5/2/2017 12:12 PM	P2...	5.774	43	0.34	300.2 -> 128...	36.9	0.56	0.56	lorazepam-d4	325.1 -> 279...	6.379	55666	
Hydrocodone	300.2 -> 198...		P2...	5/2/2017 12:12 PM	P2...	6.169	321	1.07	286.2 -> 157...				Hydrocodone-D6	306.2 -> 202...	5.691	220170	
Hydromorphone	286.2 -> 184...		P2...	5/2/2017 12:12 PM	P2...	5.599	206	0.32	219.1 -> 97.1	178.0	1.06	1.06	Hydromorphone-D6	292.2 -> 185...	5.122	83965	
Ketamine	238.1 -> 125...		P2...	5/2/2017 12:12 PM	P2...	5.524	878	2.68	310.2 -> 105...	56.4	0.77	0.77	Ketamine-D4	242.1 -> 129...	6.168	383297	
Meprobamate	219.1 -> 158...		P2...	5/2/2017 12:12 PM	P2...	5.254	82780	Infinity	150.1 -> 119...				Meprobamate-D7	226.2 -> 165...	5.660	100722	
Methadone	310.2 -> 265...		P2...	5/2/2017 12:12 PM	P2...	5.143	126	0.67	286.2 -> 165...				Methadone-D9	319.3 -> 268...	6.563	13885...	
Methamphetamine	150.1 -> 91.1		P2...	5/2/2017 12:12 PM	P2...	5.143	126	0.67	286.2 -> 165...				Methamphetamine-D11	161.2 -> 97.1	5.213	293313	
Morphine	286.2 -> 201...		P2...	5/2/2017 12:12 PM	P2...	5.869	74	1.31	344.2 -> 211...				Morphine-D6	292.2 -> 152...	4.879	4156	
Naloxone	328.2 -> 309...		P2...	5/2/2017 12:12 PM	P2...	5.278	171	0.98	344.2 -> 308...				Naloxone-D5	333.2 -> 315...	5.950	306631	
Naltrexol	344.2 -> 326...		P2...	5/2/2017 12:12 PM	P2...	5.278	171	0.98	344.2 -> 308...				Naltrexol-D3	347.2 -> 329...	5.318	389646	
Naltrexone	342.2 -> 324...		P2...	5/2/2017 12:12 PM	P2...	6.493	48	0.21	414.3 -> 57.3				Naltrexone-D3	345.2 -> 327...	6.069	45832	
Norbuprenorphine	414.3 -> 101...		P2...	5/2/2017 12:12 PM	P2...	5.496	139	1.62	233.2 -> 55.3	1039.0	7.55	7.55	Norbuprenorphine-D3	417.3 -> 101...	6.613	65452	
Nordiazepam	271.1 -> 140...		P2...	5/2/2017 12:12 PM	P2...	5.346	50	0.68	286.2 -> 171...				Nordiazepam-D5	276.1 -> 140...	6.613	65452	
Nortentanyl	233.2 -> 84.2		P2...	5/2/2017 12:12 PM	P2...	5.059	1073	1.16	302.1 -> 186...	10.0	0.79	0.79	Nortentanyl-D5	236.2 -> 84.2	5.515	649618	
Norhydrocodone	286.2 -> 199...		P2...	5/2/2017 12:12 PM	P2...	5.148	1805	Infinity	250.2 -> 42.3	7.7	0.66	0.66	Norhydrocodone-D3	289.2 -> 202...	5.204	68072	
Noroxycodone	302.1 -> 284...		P2...	5/2/2017 12:12 PM	P2...	5.148	1805	Infinity	250.2 -> 42.3	7.7	0.66	0.66	Noroxycodone-D3	305.2 -> 287...	5.099	136888	
O-desmethyl-tramadol	250.2 -> 58.3		P2...	5/2/2017 12:12 PM	P2...	5.464	459	3.07	316.2 -> 241...				O-desmethyl-tramadol...	256.2 -> 64.3	5.128	878706	
Oxazepam	287.1 -> 240...		P2...	5/2/2017 12:12 PM	P2...	5.464	459	3.07	316.2 -> 241...				Oxazepam-D5	282.1 -> 246...	6.447	70516	
Oxycodone	316.2 -> 298...		P2...	5/2/2017 12:12 PM	P2...	5.275	705	0.60	150.1 -> 133...	1.6	0.98	0.98	Oxycodone-D6	322.2 -> 304...	5.403	308020	
Oxymorphone	302.1 -> 284...		P2...	5/2/2017 12:12 PM	P2...	5.275	705	0.60	150.1 -> 133...	1.6	0.98	0.98	Oxymorphone-D3	305.2 -> 287...	4.775	308856	
Pentamidine	150.1 -> 65.2		P2...	5/2/2017 12:12 PM	P2...	6.772	705	0.60	150.1 -> 133...	1.6	0.80	0.80	Pentamidine-D5	155.2 -> 96.2	5.315	370720	
Promethazine	285.1 -> 86.2		P2...	5/2/2017 12:12 PM	P2...	6.760	226	0.61	384.2 -> 221...	58.8	0.52	0.52	Promethazine-D3	288.2 -> 89.2	6.690	23195...	
Quetiapine	384.2 -> 253...		P2...	5/2/2017 12:12 PM	P2...	6.830	38	0.34	306.1 -> 275...				Quetiapine-D8	392.1 -> 275...	6.718	428901	
Seftaline	306.1 -> 158...		P2...	5/2/2017 12:12 PM	P2...	6.901	2003	298.70	387.2 -> 111...	67.9	2.64	2.64	Seftaline-D3	309.1 -> 226...	6.768	329359	
Sufentanil	387.2 -> 238...		P2...	5/2/2017 12:12 PM	P2...	6.588	813	1.22	301.1 -> 283...	224.7	0.83	0.83	Sufentanil-D5	392.2 -> 238...	6.880	11457...	
Tamazepam	301.1 -> 255...		P2...	5/2/2017 12:12 PM	P2...	6.597	8302	3.99	264.2 -> 43.3	4.1	0.68	0.68	Tamazepam-D5	306.1 -> 260...	6.557	453488	
Tramadol	264.2 -> 58.3		P2...	5/2/2017 12:12 PM	P2...	6.597	8302	3.99	264.2 -> 43.3	4.1	0.68	0.68	Tramadol-13C-D3	268.2 -> 58.3	5.676	12785...	

Compound Method				p1 negative				p1 negative Results				ISTD Method				ISTD Results	
Name	Transition	CF-R2	Acq. Date-Time	Pos	RT	Resp.	S/N	Qualifier 1 M...	Qualifier 1 Re...	Name	Transition	RT	Resp.	RT	Resp.		
Trazodone	372.2 -> 176...		5/2/2017 12:12 PM	P2...	6.923	1763	1.76	372.2 -> 148...	75.4	Trazodone-D6	378.2 -> 182...	6.902	13286...	6.902	13286...		
Venlafaxine	278.2 -> 58.3		5/2/2017 12:12 PM	P2...				278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.999	11815...	5.999	11815...		
Zolpidem	308.2 -> 235...		5/2/2017 12:12 PM	P2...	6.627	1413	101.17	308.2 -> 263...	46.2	Zolpidem-D6	314.2 -> 235...	6.463	12594...	6.463	12594...		

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Compound Method			p1 cal 1a			p1 cal 1a Results			p1 cal 1a Results			ISTD Method		
Name	Transition	RT	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	Ratio	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...		5/2/2017 11:52 AM	P2-A1	5.585	372	1.11	328.2 -> 211...	308.1	2.75	6-MAM-D6	334.2 -> 165...	5.502	51866
7-Aminoclonazepam	286.1 -> 121...		5/2/2017 11:52 AM	P2-A1	5.611	33643	92.10	286.1 -> 222...	64.5	3385...	7-Aminoclonazepam-D4	290.1 -> 121...	5.590	136733
Acetyl Fentanyl	323.2 -> 105...		5/2/2017 11:52 AM	P2-A1	6.379	28528	3730.99	323.2 -> 188...	58.0	2504...	Acetyl Fentanyl-D5	328.2 -> 105...	6.357	15352...
Acetyl Nortentanyl	219.1 -> 84.2		5/2/2017 11:52 AM	P2-A1	5.091	8479	11.39	219.1 -> 56.3	31.2	20.35	Acetyl Nortentanyl-D5	224.2 -> 84.2	5.070	479031
a-hydroxylalprazolam	325.1 -> 297...		5/2/2017 11:52 AM	P2-A1	6.460	8490	22.71	325.1 -> 215...	57.3	1283...	a-hydroxylalprazolam-D5	330.1 -> 302	6.459	44576
alpha-PVP	232.2 -> 91.0		5/2/2017 11:52 AM	P2-A1	6.007	132122	290.50	232.2 -> 77.1	35.5	Infinity	alpha-PVP-d8	240.2 -> 91.1	5.944	585068
Alprazolam	309.1 -> 281...		5/2/2017 11:52 AM	P2-A1	6.546	52416	38.35	309.1 -> 205...	94.5	64.10	Alprazolam-D5	314.1 -> 286...	6.545	206712
Amphetamine	136.1 -> 91.1		5/2/2017 11:52 AM	P2-A1	5.032	203248	Infinity	136.1 -> 119...	33.9	Infinity	Amphetamine-D11	147.2 -> 130...	4.992	151714
Bupropion	240.1 -> 184...		5/2/2017 11:52 AM	P2-A1	6.209	129817	86.55	240.1 -> 131...	46.9	143.00	Bupropion-D9	249.2 -> 185...	6.168	592559
Carisoprodol	261.2 -> 176...		5/2/2017 11:52 AM	P2-A1	6.187	62102	189.62	261.2 -> 55.3	102.3	18.45	Carisoprodol-D7	268.2 -> 183...	6.187	395385
Citalopram	325.2 -> 109...		5/2/2017 11:52 AM	P2-A1	6.277	196564	Infinity	325.2 -> 262...	23.5	135.38	Citalopram-D6	331.2 -> 109...	6.255	940715
Clonazepam	316.1 -> 269...		5/2/2017 11:52 AM	P2-A1	6.401	17737	87.01	316.1 -> 213...	23.3	34.01	Clonazepam-D4	320.1 -> 217...	6.401	24818
Codeine	300.2 -> 215...		5/2/2017 11:52 AM	P2-A1	5.549	8276	15.94	300.2 -> 165...	68.3	3.39	Codeine-D6	306.2 -> 218...	5.485	42130
Cyclobenzaprine	276.2 -> 214...		5/2/2017 11:52 AM	P2-A1	6.612	113690	484.35	276.2 -> 231...	28.7	50.18	Cyclobenzaprine-D3	279.2 -> 215...	6.612	558810
Dextromethorphan	272.2 -> 171...		5/2/2017 11:52 AM	P2-A1	6.369	52847	8900.14	272.2 -> 147...	89.8	30.07	Dextromethorphan-D3	275.2 -> 171...	6.349	259220
Dextroproprian	258.2 -> 157...		5/2/2017 11:52 AM	P2-A1	5.678	39472	31.17	258.2 -> 133...	58.0	76.77	Dextroproprian-D3	261.2 -> 157...	5.656	233765
Diazepam	285.1 -> 193...		5/2/2017 11:52 AM	P2-A1	6.752	37533	13.82	285.1 -> 153...	64.7	16.26	Diazepam-D5	290.1 -> 198...	6.771	157108
Dihydrocodeine	302.2 -> 198...		5/2/2017 11:52 AM	P2-A1	5.283	21934	Infinity	302.2 -> 128...	67.0	Infinity	Dihydrocodeine-D6	308.2 -> 202...	5.241	139286
Diphenhydramine	256.2 -> 167...		5/2/2017 11:52 AM	P2-A1	6.270	268267	Infinity	256.2 -> 152...	24.7	7346...	Diphenhydramine-D3	259.2 -> 167...	6.269	15284...
Doxylamine	271.2 -> 182...		5/2/2017 11:52 AM	P2-A1	5.921	241644	Infinity	271.2 -> 167...	70.7	Infinity	Doxylamine-D5	276.2 -> 187...	5.899	13633...
EDDP	279.2 -> 235...		5/2/2017 11:52 AM	P2-A1	6.244	103051	308.08	279.2 -> 250...	33.0	4175...	EDDP-D3	282.2 -> 235...	6.244	51053
Fentanyl	337.2 -> 105...		5/2/2017 11:52 AM	P2-A1	6.539	30243	27.82	337.2 -> 188...	75.0	167.71	Fentanyl-D5	342.3 -> 105...	6.519	14724...
Fluoxetine	310.1 -> 44.3		5/2/2017 11:52 AM	P2-A1	6.464	298534	44477.22	310.1 -> 148...	3.2	1600...	Fluoxetine-D6	316.2 -> 44.3	6.463	14336...
Hexazepam	321.0 -> 229...		5/2/2017 11:52 AM	P2-A1	6.502	3586	3.75	321.0 -> 303...			Hexazepam-d4 not seen	325.1 -> 279...	6.379	55504
Hydrocodone	300.2 -> 198...		5/2/2017 11:52 AM	P2-A1	5.733	37767	Infinity	300.2 -> 128...	39.5	17.38	Hydrocodone-D6	306.2 -> 202...	5.691	214288
Hydromorphone	286.2 -> 184...		5/2/2017 11:52 AM	P2-A1	5.164	25007	Infinity	286.2 -> 157...	64.6	Infinity	Hydromorphone-D6	292.2 -> 185...	5.122	85641
Ketamine	238.1 -> 125...		5/2/2017 11:52 AM	P2-A1	6.189	80415	4726.73	238.1 -> 220...	40.4	23.47	Ketamine-D4	242.1 -> 129...	6.168	369393
Meprobamate	219.1 -> 158...		5/2/2017 11:52 AM	P2-A1	5.681	12857	9.28	219.1 -> 97.1	102.7	40.62	Meprobamate-D7	226.2 -> 165...	5.660	87236
Methadone	310.2 -> 265...		5/2/2017 11:52 AM	P2-A1	6.565	231793	Infinity	310.2 -> 105...	93.4	1535...	Methadone-D9	319.3 -> 268...	6.563	12759...
Methamphetamine	150.1 -> 91.1		5/2/2017 11:52 AM	P2-A1	5.254	236630	37.04	150.1 -> 119...	24.0	Infinity	Methamphetamine-D11	161.2 -> 97.1	5.193	438009
Morphine	286.2 -> 201...		5/2/2017 11:52 AM	P2-A1	4.960	8246	Infinity	286.2 -> 165...	55.5	11.18	Morphine-D6	292.2 -> 152...	4.879	5030
Naloxone	328.2 -> 309...		5/2/2017 11:52 AM	P2-A1	6.012	31517	103.45	328.2 -> 211...	42.1	47.15	Naloxone-D5	333.2 -> 315...	5.950	300328
Naltrexone	344.2 -> 326...		5/2/2017 11:52 AM	P2-A1	5.339	94273	Infinity	344.2 -> 308...	19.2	5002...	Naltrexol-D3	347.2 -> 329...	5.318	373076
Naltrexone	342.2 -> 324...		5/2/2017 11:52 AM	P2-A1				342.2 -> 55.3			Naltrexone-D3	345.2 -> 327...	6.069	41740
Norbuprenorphine	414.3 -> 101...		5/2/2017 11:52 AM	P2-A1	6.069	8250	1228.18	414.3 -> 57.3	88.1	20.91	Norbuprenorphine-D3	417.3 -> 101...	6.069	41740
Nordiazepam	271.1 -> 140...		5/2/2017 11:52 AM	P2-A1	6.634	17110	37.58	271.1 -> 208...	61.5	44.18	Nordiazepam-D5	276.1 -> 140...	6.633	53823
Nortentanyl	233.2 -> 84.2		5/2/2017 11:52 AM	P2-A1	5.537	133664	1014.43	233.2 -> 55.3	37.8	200.39	Nortentanyl-D5	238.2 -> 84.2	5.536	628965
Norhydrocodone	286.2 -> 199...		5/2/2017 11:52 AM	P2-A1	5.224	4590	11.47	286.2 -> 171...	30.7	2.73	Norhydrocodone-D3	289.2 -> 202...	5.204	63831
Noroxycodone	302.1 -> 284...		5/2/2017 11:52 AM	P2-A1	5.140	30143	Infinity	302.1 -> 186...	31.9	8790...	Noroxycodone-D3	305.2 -> 287...	5.099	143239
O-desmethyl-tramadol	250.2 -> 58.3		5/2/2017 11:52 AM	P2-A1	5.148	187886	Infinity	250.2 -> 42.3	5.4	314.1...	O-desmethyl-tramadol-...	256.2 -> 64.3	5.128	857096
Oxazepam	287.1 -> 240...		5/2/2017 11:52 AM	P2-A1	6.488	10685	273.97	287.1 -> 268...	42.1	5.76	Oxazepam-D5	292.1 -> 246...	6.447	60475
Oxycodone	316.2 -> 298...		5/2/2017 11:52 AM	P2-A1	5.464	54646	Infinity	316.2 -> 241...	29.2	22.87	Oxycodone-D6	322.2 -> 304...	5.403	307289
Oxymorphone	302.1 -> 284...		5/2/2017 11:52 AM	P2-A1	4.836	57642	Infinity	302.1 -> 227...	20.6	4653...	Oxymorphone-D3	305.2 -> 287...	4.775	309402
Pentemine	150.1 -> 65.2		5/2/2017 11:52 AM	P2-A1	5.234	72228	Infinity	150.1 -> 133...	0.9	0.69	Pentemine-D5	155.2 -> 96.2	5.315	391928
Promethazine	285.1 -> 86.2		5/2/2017 11:52 AM	P2-A1	6.711	413492	52821.95	285.1 -> 71.3	20.9	1573...	Promethazine-D3	288.2 -> 89.2	6.690	22014...
Quetiapine	384.2 -> 253...		5/2/2017 11:52 AM	P2-A1	6.790	282952	Infinity	384.2 -> 221...	54.4	147.22	Quetiapine-D8	392.2 -> 226...	6.738	395222
Setraline	306.1 -> 158...		5/2/2017 11:52 AM	P2-A1	6.790	55598	67.40	306.1 -> 275...	97.5	5816...	Setraline-D3	309.1 -> 275...	6.768	283040
Sufentanil	387.2 -> 238...		5/2/2017 11:52 AM	P2-A1	6.880	27210	7.80	387.2 -> 111...	92.1	Infinity	Sufentanil-D5	392.2 -> 238...	6.880	10920...
Temazepam	301.1 -> 255...		5/2/2017 11:52 AM	P2-A1	6.608	73103	48.75	301.1 -> 283...	31.3	14.68	Temazepam-D5	306.1 -> 260...	6.608	384834
Tramadol	264.2 -> 58.3		5/2/2017 11:52 AM	P2-A1	5.697	252146	64.29	264.2 -> 43.3	3.9	Infinity	Tramadol-13C-D3	268.2 -> 58.3	5.676	11745...

Compound Method			pt cal 'a			pt cal 'a Results			ISTD Method			ISTD Results	
Name	Transition	CF R2	Acq. Date-Time	Pos	RT	Resp	S/N	Qualifier 1 M...	Qualifier 1 Res...	Name	Transition	RT	Resp
Trazodone	372.2 -> 176...		5/2/2017 11:52 AM	P2-A1	6.923	279092	Infinity	372.2 -> 148...	68.7	Trazodone-D6	378.2 -> 182...	6.882	12258...
Venlafaxine	278.2 -> 58.3		5/2/2017 11:52 AM	P2-A1	6.021	242512	Infinity	278.2 -> 260...	20.1	Venlafaxine-D6	284.2 -> 64.3	5.999	11394...
Zolpidem	308.2 -> 235...		5/2/2017 11:52 AM	P2-A1	6.486	216049	186.25	308.2 -> 263...	37.7	Zolpidem-D6	314.2 -> 235...	6.463	12062...

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Compound Method		p1 external control				p1 external control Results				ISTD Method				ISTD Results	
Name	Transition	CF R2	Acq. Date-Time	Pos	RT	Resp.	S/N	Qualifier 1 M...	Qualifier 1 Results	Name	Transition	RT	Resp.		
6-MAM	328.2 -> 165...		5/22/2017 12:31 PM	P2...				328.2 -> 211...		6-MAM-D6	334.2 -> 165...	5.502	55545		
7-Aminoclonazepam	286.1 -> 121...		5/22/2017 12:31 PM	P2...	5.632	76	0.37	286.1 -> 222...	97.7	7-Aminoclonazepam-D4	290.1 -> 121...	5.590	165342		
Acetyl Fentanyl	323.2 -> 105...		5/22/2017 12:31 PM	P2...	6.441	63	70.55	323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	6.357	170411		
Acetyl Norfentanyl	219.1 -> 84.2		5/22/2017 12:31 PM	P2...				219.1 -> 56.3		Acetyl Norfentanyl-D5	224.2 -> 84.2	5.070	517647		
a-hydroxyalprazolam	325.1 -> 297...		5/22/2017 12:31 PM	P2...				325.1 -> 215...		a-hydroxyalprazolam-D5	330.1 -> 302...	6.438	49714		
alpha-FVP	232.2 -> 91.0		5/22/2017 12:31 PM	P2...	6.027	475	1.13	232.2 -> 77.1	70.0	alpha-FVP-d8	240.2 -> 91.1	5.944	647245		
Alprazolam	309.1 -> 281...		5/22/2017 12:31 PM	P2...	6.727	392	1.03	309.1 -> 205...	6.8	Alprazolam-D5	314.1 -> 286...	6.545	225155		
Amphetamine	136.1 -> 91.1		5/22/2017 12:31 PM	P2...	5.012	52712	Infinity	136.1 -> 119...		Amphetamine-D11	147.2 -> 130...	5.012	136285		
Bupropion	240.1 -> 184...		5/22/2017 12:31 PM	P2...	6.189	257	0.83	240.1 -> 131...	54.9	Carisoprodol-D7	268.2 -> 185...	6.168	531512		
Carisoprodol	261.2 -> 176...		5/22/2017 12:31 PM	P2...	6.248	25	0.49	261.2 -> 55.3		Carisoprodol-D7	268.2 -> 183...	6.166	413417		
Chlorthalidone	325.2 -> 109...		5/22/2017 12:31 PM	P2...				325.2 -> 282...		Chlorthalidone-D6	331.2 -> 109...	6.255	962248		
Clozapepam	316.1 -> 269...		5/22/2017 12:31 PM	P2...	6.401	95	32.72	316.1 -> 213...	244.8	Clozapepam-D4	320.1 -> 217...	6.380	26240		
Codeine	300.2 -> 215...		5/22/2017 12:31 PM	P2...	5.549	99669	3107.06	300.2 -> 165...	92.5	Codeine-D6	306.2 -> 218...	5.485	41105		
Cyclobenzaprine	276.2 -> 214...		5/22/2017 12:31 PM	P2...	6.653	209	0.74	276.2 -> 231...	149.9	Cyclobenzaprine-D3	279.2 -> 215...	6.612	595732		
Dextromethorphan	272.2 -> 171...		5/22/2017 12:31 PM	P2...	6.349	388	0.86	272.2 -> 147...		Dextromethorphan-D3	275.2 -> 171...	6.349	282319		
Dextroproprian	258.2 -> 157...		5/22/2017 12:31 PM	P2...	5.452	58	12.85	258.2 -> 133...	24.0	Dextroproprian-D3	261.2 -> 157...	5.656	244808		
Diazepam	285.1 -> 193...		5/22/2017 12:31 PM	P2...	6.590	1472	1.14	285.1 -> 153...		Diazepam-D5	290.1 -> 198...	6.751	177951		
Dihydrocodeine	302.2 -> 198...		5/22/2017 12:31 PM	P2...	5.242	127	0.81	302.2 -> 128...		Dihydrocodeine-D6	308.2 -> 202...	5.241	148402		
Diphenhydramine	256.2 -> 167...		5/22/2017 12:31 PM	P2...	6.270	27519...	Infinity	256.2 -> 152...	24.6	Diphenhydramine-D3	259.2 -> 167...	6.249	15692...		
Doxylamine	271.2 -> 182...		5/22/2017 12:31 PM	P2...	5.900	312	0.48	271.2 -> 167...	179.9	Doxylamine-D5	276.2 -> 187...	5.899	14513...		
EDDP	279.2 -> 235...		5/22/2017 12:31 PM	P2...	6.184	129	1.51	279.2 -> 250...	27.2	EDDP-D3	282.2 -> 235...	6.244	46495		
Fentanyl	337.2 -> 105...		5/22/2017 12:31 PM	P2...	6.640	552	0.93	337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	6.519	15486...		
Fluoxetine	310.1 -> 44.3		5/22/2017 12:31 PM	P2...	6.281	682	1.91	310.1 -> 148...		Fluoxetine-D6	316.2 -> 44.3	6.463	154224...		
lorazepam	321.0 -> 229...		5/22/2017 12:31 PM	P2...	6.502	3432	9.25	321.0 -> 303...	193.0	lorazepam-d4	325.1 -> 279...	6.379	50373		
Hydrocodone	300.2 -> 198...		5/22/2017 12:31 PM	P2...	5.549	54539	59.51	300.2 -> 128...	121.6	Hydrocodone-D6	306.2 -> 202...	5.691	227304		
Hydromorphone	286.2 -> 184...		5/22/2017 12:31 PM	P2...	4.960	54959	97.17	286.2 -> 157...	136.2	Hydromorphone-D6	292.2 -> 185...	5.102	89005		
Ketamine	238.1 -> 125...		5/22/2017 12:31 PM	P2...	5.782	77	0.53	238.1 -> 220...	164.8	Ketamine-D4	242.1 -> 129...	6.168	381207		
Meprobamate	219.1 -> 158...		5/22/2017 12:31 PM	P2...	5.559	180	0.38	219.1 -> 97.1	283.9	Meprobamate-D7	226.2 -> 165...	5.660	91979		
Methadone	310.2 -> 265...		5/22/2017 12:31 PM	P2...				310.2 -> 105...		Methadone-D9	319.3 -> 268...	6.563	13091...		
Methamphetamine	150.1 -> 91.1		5/22/2017 12:31 PM	P2...	5.254	76006	Infinity	150.1 -> 119...		Methamphetamine-D11	161.2 -> 97.1	5.193	441051		
Morphine	286.2 -> 201...		5/22/2017 12:31 PM	P2...	4.960	120675	461.68	286.2 -> 165...	69.2	Morphine-D6	292.2 -> 152...	4.879	3836		
Naloxone	328.2 -> 309...		5/22/2017 12:31 PM	P2...	6.133	18	0.41	328.2 -> 211...		Naloxone-D5	333.2 -> 315...	5.930	308342		
Naltrexol	344.2 -> 326...		5/22/2017 12:31 PM	P2...	5.440	152	0.64	344.2 -> 308...		Naltrexol-D3	347.2 -> 329...	5.298	405281		
Naltrexone	342.2 -> 324...		5/22/2017 12:31 PM	P2...				342.2 -> 55.3		Naltrexone-D3	345.2 -> 327...				
Norbuprenorphine	414.3 -> 101...		5/22/2017 12:31 PM	P2...				414.3 -> 57.3		Norbuprenorphine-D3	417.3 -> 101...	6.069	50123		
Nordiazepam	271.1 -> 140...		5/22/2017 12:31 PM	P2...	6.797	117	0.59	271.1 -> 208...		Nordiazepam-D5	276.1 -> 140...	6.613	60151		
Norfentanyl	233.2 -> 84.2		5/22/2017 12:31 PM	P2...	5.516	70	1.72	233.2 -> 55.3	1535.0	Norfentanyl-D5	238.2 -> 84.2	5.515	695946		
Norhydrocodone	286.2 -> 199...		5/22/2017 12:31 PM	P2...	5.346	249	0.66	286.2 -> 171...	20.8	Norhydrocodone-D3	289.2 -> 202...	5.204	67449		
Noroxycodone	302.1 -> 284...		5/22/2017 12:31 PM	P2...				302.1 -> 186...		Noroxycodone-D3	305.2 -> 287...	5.099	141981		
O-desmethyl-tramadol	250.2 -> 58.3		5/22/2017 12:31 PM	P2...	5.148	1313	Infinity	250.2 -> 42.3		O-desmethyl-tramadol...	256.2 -> 64.3	5.107	901616		
Oxazepam	287.1 -> 240...		5/22/2017 12:31 PM	P2...				287.1 -> 288...		Oxazepam-D5	292.1 -> 246...	6.447	66365		
Oxycodone	316.2 -> 298...		5/22/2017 12:31 PM	P2...	5.403	494	0.96	316.2 -> 241...	44.8	Oxycodone-D6	322.2 -> 304...	5.403	321235		
Oxymorphone	302.1 -> 284...		5/22/2017 12:31 PM	P2...	4.836	271	1.35	302.1 -> 227...		Oxymorphone-D3	305.2 -> 287...	4.775	315150		
Phentermine	150.1 -> 65.2		5/22/2017 12:31 PM	P2...	5.254	18347	Infinity	150.1 -> 133...	2.6	Phentermine-D5	155.2 -> 96.2	5.315	447422		
Promethazine	285.1 -> 86.2		5/22/2017 12:31 PM	P2...	6.752	214	1.63	285.1 -> 71.3	83.2	Promethazine-D3	288.2 -> 89.2	6.670	23154...		
Quetiapine	384.2 -> 253...		5/22/2017 12:31 PM	P2...	6.699	444	0.53	384.2 -> 221...	11.9	Quetiapine-D8	392.2 -> 226...	6.718	409880		
Setraline	306.1 -> 158...		5/22/2017 12:31 PM	P2...	6.972	82	0.36	306.1 -> 275...	612.1	Setraline-D3	309.1 -> 275...	6.768	191612		
Sufentanil	387.2 -> 238...		5/22/2017 12:31 PM	P2...	6.880	1880	357.80	387.2 -> 111...	68.9	Sufentanil-D5	392.2 -> 238...	6.880	295623		
Temazepam	301.1 -> 255...		5/22/2017 12:31 PM	P2...				301.1 -> 283...		Temazepam-D5	306.1 -> 260...	6.587	427347		
Tramadol	264.2 -> 58.3		5/22/2017 12:31 PM	P2...	5.697	5469	Infinity	264.2 -> 43.3	2.1	Tramadol-13C-D3	268.2 -> 58.3	5.676	12728		

Compound Method		p1 external control		p1 external control Results		Qualifier 1 M...		Qualifier 1 Results		ISTD Method		ISTD Results		
Name	Transition	CF R2	Acq. Date-Time	Pos	RT	Resp.	S/N	Transition	Ratio	S/N	Name	Transition	RT	Resp.
Tiazodone	372.2 -> 176...		5/2/2017 12:31 PM	P2...	6.943	1293	1.20	372.2 -> 148...	72.3	0.86	Tiazodone-D6	378.2 -> 182...	6.882	13144.
Venlafaxine	278.2 -> 58.3		5/2/2017 12:31 PM	P2...	6.021	1995	0.36	278.2 -> 260...			Venlafaxine-D6	284.2 -> 64.3	5.999	12161..
Zolpidem	308.2 -> 235...		5/2/2017 12:31 PM	P2...	6.668	1669	1.38	308.2 -> 253...	20.4	1.49	Zolpidem-D6	314.2 -> 235...	6.463	12588.

Compound Method		p2 negative				p2 negative Results				ISTD Method			
Name	Transition	Acq. Date-Time	Pos	RT	Resp.	S/N	Qualifier 1 M...	Qualifier 1 Re...	Name	Transition	RT	Resp.	
7-aminoflunitrazepam	284.1 -> 135...	5/2/2017 12:21 PM	P2...				284.1 -> 93.2		7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	249870	
alpha-hydroxymidazolam	342.1 -> 324...	5/2/2017 12:21 PM	P2...				342.1 -> 203...		alpha-hydroxymidazolam-	346.1 -> 328...	6.529	445538	
Amitypyline	278.2 -> 91.2	5/2/2017 12:21 PM	P2...				278.2 -> 105...		Amitypyline-D3	281.2 -> 91.2	6.700	559756	
Amoxapine	314.1 -> 271...	5/2/2017 12:21 PM	P2...		40	0.25	314.1 -> 193...		Amitypyline-D3	281.2 -> 91.2	6.700	559756	
Benzylecgonine	290.1 -> 168...	5/2/2017 12:21 PM	P2...				290.1 -> 105...		Benzylecgonine-D8	288.2 -> 171...	5.371	5578	
Carbamazepine	237.1 -> 193...	5/2/2017 12:21 PM	P2...		86	1.64	237.1 -> 194...		Carbamazepine-13C6	243.1 -> 200...	6.197	12084...	
Chlordiazepoxide	300.1 -> 227...	5/2/2017 12:21 PM	P2...				300.1 -> 282...		Chlordiazepoxide-D5	305.1 -> 286...	6.636	240789	
Clomipramine	315.2 -> 86.2	5/2/2017 12:21 PM	P2...		237	0.16	315.2 -> 58.3		Clomipramine-D3	318.2 -> 89.2	6.978	21273...	
Cocaine	304.2 -> 182...	5/2/2017 12:21 PM	P2...		499	1.38	304.2 -> 105...		Cocaine-D3	307.2 -> 185...	5.922	662175	
Desipramine	267.2 -> 72.3	5/2/2017 12:21 PM	P2...		1082	10.69	267.2 -> 44.3	462.7	Desipramine-D3	270.2 -> 75.3	6.560	14743...	
Doxepin	280.2 -> 107...	5/2/2017 12:21 PM	P2...		226	3.60	280.2 -> 77.2	Infini...	Doxepin-D3	283.2 -> 107...	6.436	702517	
Estazolam	295.1 -> 267...	5/2/2017 12:21 PM	P2...				295.1 -> 205...		Estazolam-D5	300.1 -> 272...	6.453	336482	
Flunitrazepam	314.1 -> 268...	5/2/2017 12:21 PM	P2...		1195	0.93	314.1 -> 239...	35.2	Flunitrazepam-D7	321.1 -> 245...	6.491	12252	
Flurazepam	388.2 -> 315...	5/2/2017 12:21 PM	P2...				388.2 -> 317...		Zopiclone-D4	393.1 -> 244...	6.465	95545	
Imipramine	281.2 -> 86.2	5/2/2017 12:21 PM	P2...		2801	23.59	281.2 -> 58.3	14.7	Imipramine-D3	284.2 -> 61.3	6.659	12163...	
Levamisole	205.1 -> 91.2	5/2/2017 12:21 PM	P2...		982	Infini	205.1 -> 178...	17.5	Cocaine-D3	307.2 -> 185...	5.922	662175	
Maprotiline	278.2 -> 91.2	5/2/2017 12:21 PM	P2...		1533	1.04	278.2 -> 117...		Meperidine-D4	252.2 -> 224...	5.972	329849	
MDA	180.1 -> 163...	5/2/2017 12:21 PM	P2...				180.1 -> 105...		MDA-D5	185.1 -> 168...	5.185	293765	
MDEA	208.1 -> 163...	5/2/2017 12:21 PM	P2...				208.1 -> 105...		MDEA-D6	214.2 -> 166...	5.466	453842	
MDMA	194.1 -> 163...	5/2/2017 12:21 PM	P2...				194.1 -> 105...		MDEA-D6	200.2 -> 166...	5.345	54667	
Meperidine	248.2 -> 220...	5/2/2017 12:21 PM	P2...				248.2 -> 174...		Meperidine-D4	252.2 -> 224...	5.972	329849	
Methylphenidate	234.2 -> 84.2	5/2/2017 12:21 PM	P2...		620	0.45	234.2 -> 56.3	23.6	Meperidine-D4	252.2 -> 224...	5.972	329849	
Metoprolol	268.2 -> 116...	5/2/2017 12:21 PM	P2...				268.2 -> 56.3		Meperidine-D4	252.2 -> 224...	5.972	329849	
Midazolam	326.1 -> 223...	5/2/2017 12:21 PM	P2...				326.1 -> 249...		Midazolam-D4	330.1 -> 295...	6.692	449073	
Midazolam	266.2 -> 195...	5/2/2017 12:21 PM	P2...		510	0.69	266.2 -> 72.3		Midazolam-D4	330.1 -> 295...	6.692	449073	
Mirtazapine	399.2 -> 174...	5/2/2017 12:21 PM	P2...				399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.197	12084...	
Mirtazapine	234.1 -> 42.3	5/2/2017 12:21 PM	P2...		63	1.10	234.1 -> 160...	364.2	Normeperidine-D4	238.2 -> 164...	5.810	294509	
Normeperidine	326.2 -> 44.3	5/2/2017 12:21 PM	P2...				326.2 -> 252...		Normeperidine-D4	331.2 -> 44.3	6.387	68601	
Nortriptyline	264.2 -> 91.2	5/2/2017 12:21 PM	P2...		15401	Infini	264.2 -> 233...		Nortriptyline-D5	267.2 -> 233...	6.601	421582	
Ondansetron	294.2 -> 184...	5/2/2017 12:21 PM	P2...		90	0.31	294.2 -> 212...		Nortriptyline-D3	267.2 -> 233...	6.601	421582	
Pentazocine	286.2 -> 218...	5/2/2017 12:21 PM	P2...		77	0.63	286.2 -> 41.3	1241.9	Pentazocine-13C3	289.2 -> 72.3	5.885	542140	
Pentazocine	349.0 -> 206...	5/2/2017 12:21 PM	P2...		2096	839.16	349.0 -> 183...		Pentazocine-13C3	289.2 -> 72.3	5.885	542140	
Phencyclidine	244.2 -> 86.2	5/2/2017 12:21 PM	P2...		552	2.40	244.2 -> 91.1	86.2	Phencyclidine-D4	249.2 -> 86.2	6.115	889725	
Phencyclidine	253.1 -> 104...	5/2/2017 12:21 PM	P2...		3645	Infini	253.1 -> 182...	1.42	Phencyclidine-D5	263.2 -> 192...	6.094	15187	
Phenylethanolamine	325.1 -> 271...	5/2/2017 12:21 PM	P2...				325.1 -> 140...		Phenylethanolamine-D10	263.2 -> 192...	6.094	15187	
Praxepam	219.1 -> 91.2	5/2/2017 12:21 PM	P2...				219.1 -> 162...		Praxepam-D5	330.1 -> 276...	7.015	966941	
Primidone	340.2 -> 58.3	5/2/2017 12:21 PM	P2...				340.2 -> 266...		Praxepam-D5	330.1 -> 276...	7.015	966941	
Propoxyphene	264.2 -> 155...	5/2/2017 12:21 PM	P2...				264.2 -> 161...		Propoxyphene-D11	351.3 -> 277...	6.507	332482	
Propoxyphene	166.1 -> 148...	5/2/2017 12:21 PM	P2...		889	0.98	166.1 -> 133...		Nortriptyline-D3	267.2 -> 233...	6.601	421582	
Pseudoephedrine	222.2 -> 107...	5/2/2017 12:21 PM	P2...		275	0.19	222.2 -> 121...		Pseudoephedrine-D3	169.1 -> 151...	4.822	432787	
Tapentadol	295.2 -> 100...	5/2/2017 12:21 PM	P2...				295.2 -> 58.3		Tapentadol-D3	225.2 -> 107...	5.669	757323	
Trimipramine	455.3 -> 165...	5/2/2017 12:21 PM	P2...				455.3 -> 150...		Trimipramine-D3	298.2 -> 103...	6.759	24389...	
Verapamil	306.1 -> 236...	5/2/2017 12:21 PM	P2...		108	45.51	306.1 -> 264...		Trimipramine-D3	298.2 -> 103...	6.759	24389...	
Zaleplon	389.1 -> 244...	5/2/2017 12:21 PM	P2...		202	0.48	389.1 -> 216...		Zaleplon-D4	310.2 -> 240...	6.289	245998	
Zopiclone									Zopiclone-D4	393.1 -> 244...	6.465	95545	

Compound Method		p2 cal 1b			p2 cal 1b Results			Qualifier 1 M...			Qualifier 1 Resu...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos	RT	Resp.	S/N	Transition	Ratio	S/N	Name	Transition	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	5/22/2017 12:02 PM	P2-A1	5.783	46064	Infinity	284.1 -> 93.2	34.7	3900.89	7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	250495				
alpha-hydroxymidazolam	342.1 -> 324...	5/22/2017 12:02 PM	P2-A1	6.529	68297	Infinity	342.1 -> 203...	60.7	Infinity	alpha-hydroxymidazolam-...	346.1 -> 328...	6.529	384674				
Amtripryline	278.2 -> 91.2	5/22/2017 12:02 PM	P2-A1	6.721	125881	Infinity	278.2 -> 105...	62.8	Infinity	Amtripryline-D3	281.2 -> 91.2	6.700	549680				
Amoxapine	314.1 -> 271...	5/22/2017 12:02 PM	P2-A1	6.675	67348	Infinity	314.1 -> 193...	43.6	Infinity	Amtripryline-D3	281.2 -> 91.2	6.700	549680				
Benzylecgonine	290.1 -> 168...	5/22/2017 12:02 PM	P2-A1	5.393	15444	67.24	290.1 -> 105...	62.1	Infinity	Benzylecgonine-D8	298.2 -> 171...	5.371	5573				
Carbamazepine	237.1 -> 193...	5/22/2017 12:02 PM	P2-A1	6.198	24679	Infinity	237.1 -> 194...	835.2	108.24	Carbamazepine-13C6	243.1 -> 200...	6.197	1144291				
Chlordiazepoxide	300.1 -> 227...	5/22/2017 12:02 PM	P2-A1	6.978	18779	56.12	300.1 -> 282...	52.9	Infinity	Chlordiazepoxide-D5	305.1 -> 286...	6.656	190984				
Clomipramine	315.2 -> 86.2	5/22/2017 12:02 PM	P2-A1	6.677	406368	Infinity	315.2 -> 58.3	23.4	90.13	Cocaine-D3	318.2 -> 89.2	6.978	2129407				
Cocaine	304.2 -> 182...	5/22/2017 12:02 PM	P2-A1	5.943	168259	Infinity	304.2 -> 105...	23.0	Infinity	Cocaine-D3	270.2 -> 185...	5.922	680242				
Desipramine	267.2 -> 72.3	5/22/2017 12:02 PM	P2-A1	6.560	288737	Infinity	267.2 -> 44.3	50.3	Infinity	Desipramine-D3	270.2 -> 75.3	6.560	1391747				
Doxepin	280.2 -> 107...	5/22/2017 12:02 PM	P2-A1	6.437	128315	Infinity	280.2 -> 77.2	28.4	244.04	Doxepin-D3	283.2 -> 107...	6.436	640826				
Estazolam	295.1 -> 267...	5/22/2017 12:02 PM	P2-A1	6.475	55296	46.37	295.1 -> 205...	96.8	8888.15	Estazolam-D5	300.1 -> 272...	6.453	284477				
Flunitrazepam	314.1 -> 268...	5/22/2017 12:02 PM	P2-A1	6.513	51078	Infinity	314.1 -> 239...	36.3	Infinity	Flunitrazepam-D7	321.1 -> 245...	6.491	9289				
Flurazepam	388.2 -> 315...	5/22/2017 12:02 PM	P2-A1	6.587	163788	198.61	388.2 -> 317...	23.7	73.35	Zopiclone-D4	393.1 -> 244...	6.465	90919				
Imipramine	281.2 -> 86.2	5/22/2017 12:02 PM	P2-A1	6.659	410618	Infinity	281.2 -> 58.3	56.2	Infinity	Imipramine-D3	284.2 -> 61.3	6.659	1184390				
Levamisole	205.1 -> 91.2	5/22/2017 12:02 PM	P2-A1	5.671	53253	Infinity	205.1 -> 178...	87.6	Infinity	Cocaine-D3	307.2 -> 185...	5.922	680242				
Maprotiline	278.2 -> 91.2	5/22/2017 12:02 PM	P2-A1	6.253	55945	Infinity	278.2 -> 117...	1.5	270.15	Meperidine-D4	252.2 -> 224...	5.972	330589				
MDEA	180.1 -> 163...	5/22/2017 12:02 PM	P2-A1	5.205	55172	Infinity	180.1 -> 105...	63.7	Infinity	MDEA-D5	185.1 -> 168...	5.185	293859				
MDEA	208.1 -> 163...	5/22/2017 12:02 PM	P2-A1	5.487	97259	Infinity	208.1 -> 105...	69.4	Infinity	MDEA-D6	214.2 -> 166...	5.466	484441				
MDMA	194.1 -> 163...	5/22/2017 12:02 PM	P2-A1	5.345	92272	Infinity	194.1 -> 105...	56.7	Infinity	MDMA-D6	200.2 -> 166...	5.345	50196				
Meperidine	248.2 -> 220...	5/22/2017 12:02 PM	P2-A1	5.993	61025	16269.65	248.2 -> 174...	50.2	43.39	Meperidine-D4	252.2 -> 224...	5.972	330589				
Methylphenidate	234.2 -> 84.2	5/22/2017 12:02 PM	P2-A1	5.832	282848	Infinity	234.2 -> 56.3	22.4	Infinity	Meperidine-D4	252.2 -> 224...	5.972	330589				
Metoprolol	268.2 -> 116...	5/22/2017 12:02 PM	P2-A1	5.642	31021	Infinity	268.2 -> 56.3	83.9	358.15	Mepredrine-D4	252.2 -> 224...	5.972	330589				
Midazolam	326.1 -> 223...	5/22/2017 12:02 PM	P2-A1	6.673	23349	32.27	326.1 -> 249...	97.9	49.39	Midazolam-D4	330.1 -> 295...	6.692	413352				
Mirtazapine	266.2 -> 195...	5/22/2017 12:02 PM	P2-A1	6.541	190774	Infinity	266.2 -> 72.3	65.7	83.30	Midazolam-D4	330.1 -> 295...	6.692	413352				
Mirtazapine	399.2 -> 174...	5/22/2017 12:02 PM	P2-A1	6.546	71282	6887.23	399.2 -> 238...	46.8	Infinity	Carbamazepine-13C6	243.1 -> 200...	6.197	1144291				
Normeperidine	234.1 -> 42.3	5/22/2017 12:02 PM	P2-A1	5.812	77483	Infinity	234.1 -> 160...	69.3	640.25	Normeperidine-D4	238.2 -> 164...	5.810	277128				
Norpropoxyphene	326.2 -> 44.3	5/22/2017 12:02 PM	P2-A1	6.408	17122	Infinity	326.2 -> 252...	32.8	946.03	Norpropoxyphene-D5	331.2 -> 44.3	6.408	74285				
Nortriptyline	264.2 -> 91.2	5/22/2017 12:02 PM	P2-A1	6.481	264464	Infinity	264.2 -> 233...	103.8	Infinity	Nortriptyline-D3	267.2 -> 233...	6.601	393352				
Ondansetron	294.2 -> 184...	5/22/2017 12:02 PM	P2-A1	6.230	98433	170.11	294.2 -> 212...	48.7	920.51	Pentazocine-13C3	289.2 -> 72.3	5.885	487529				
Pentazocine	286.2 -> 218...	5/22/2017 12:02 PM	P2-A1	5.885	117523	19773.93	286.2 -> 41.3	121.0	326.64	Pentazocine-13C3	289.2 -> 72.3	5.885	487529				
Pentazocine	349.0 -> 206...	5/22/2017 12:02 PM	P2-A1	6.589	42921	7890.74	349.0 -> 183...	69.6	6203.07	Phenazepam-D4	353.0 -> 183...	6.588	13328				
Phencyclidine	244.2 -> 86.2	5/22/2017 12:02 PM	P2-A1	6.136	195413	Infinity	244.2 -> 91.1	70.0	555.45	Phencyclidine-D5	249.2 -> 86.2	6.115	903647				
Phenylethylamine	253.1 -> 104...	5/22/2017 12:02 PM	P2-A1	6.114	3788	Infinity	253.1 -> 182...	63.8	555.45	Phenylethylamine-D10	263.2 -> 192...	6.094	15147				
Prazepam	325.1 -> 271...	5/22/2017 12:02 PM	P2-A1	6.997	204982	1361.14	325.1 -> 140...	23.3	27447...	Prazepam-D5	330.1 -> 276...	6.995	900972				
Primidone	219.1 -> 91.2	5/22/2017 12:02 PM	P2-A1	5.466	8579	Infinity	219.1 -> 162...	64.2	86.35	Prazepam-D5	330.1 -> 276...	6.995	900972				
Propoxyphene	340.2 -> 58.3	5/22/2017 12:02 PM	P2-A1	6.550	275450	Infinity	340.2 -> 266...	19.6	17193...	Propoxyphene-D11	351.3 -> 277...	6.507	300973				
Protriptyline	264.2 -> 155...	5/22/2017 12:02 PM	P2-A1	6.501	581240	679.23	264.2 -> 161...	0.0	Infinity	Nortriptyline-D3	267.2 -> 233...	6.601	393352				
Pseudoephedrine	166.1 -> 148...	5/22/2017 12:02 PM	P2-A1	4.823	10348...	Infinity	166.1 -> 133...	19.5	749.02	Pseudoephedrine-D3	169.1 -> 151...	4.822	504977				
Tapentadol	222.2 -> 107...	5/22/2017 12:02 PM	P2-A1	5.669	139255	418.93	222.2 -> 121...	36.6	56.36	Tapentadol-D3	225.2 -> 107...	5.669	741350				
Trimipramine	295.2 -> 100...	5/22/2017 12:02 PM	P2-A1	6.779	465646	Infinity	295.2 -> 58.3	59.9	40617...	Trimipramine-D3	298.2 -> 103...	6.759	2354993				
Verapamil	455.3 -> 165...	5/22/2017 12:02 PM	P2-A1	6.545	181073	234.96	455.3 -> 150...	26.3	15471...	Trimipramine-D3	298.2 -> 103...	6.759	2354993				
Zaleplon	306.1 -> 236...	5/22/2017 12:02 PM	P2-A1	6.310	61161	98.91	306.1 -> 264...	74.0	7781.49	Zaleplon-D4	310.2 -> 240...	6.289	225600				
Zopiclone	389.1 -> 244...	5/22/2017 12:02 PM	P2-A1	6.486	18955	Infinity	389.1 -> 216...	56.9	1520.61	Zopiclone-D4	393.1 -> 244...	6.465	90919				

Compound Method		p2 external control			p2 external control Results			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	Pos	RT	Resp.	S/N	Qualifier 1 M...	Qualifier 1 R...	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	5/2/2017 12:41 PM	P2...				284.1 -> 93.2		7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	255425
alpha-hydroxymidazolam	342.1 -> 324...	5/2/2017 12:41 PM	P2...				342.1 -> 203...		alpha-hydroxymidazolam-...	346.1 -> 328...	6.508	426727
Amitriptyline	278.2 -> 91.2	5/2/2017 12:41 PM	P2...	6.721	15886...	Infinity	278.2 -> 105...	51.2	Amitriptyline-D3	281.2 -> 91.2	6.700	571906
Amoxapine	314.1 -> 271...	5/2/2017 12:41 PM	P2...	6.533	400	3.89	314.1 -> 193...	883.2	Amitriptyline-D3	281.2 -> 91.2	6.700	571906
Benzoylcegonine	290.1 -> 168...	5/2/2017 12:41 PM	P2...				290.1 -> 105...		Benzoylcegonine-D8	298.2 -> 171...	5.371	6181
Carbamazepine	237.1 -> 193...	5/2/2017 12:41 PM	P2...	6.178	286	1.56	237.1 -> 194...	349.1	Carbamazepine-13C6	243.1 -> 200...	6.187	11743...
Chlordiazepoxide	300.1 -> 227...	5/2/2017 12:41 PM	P2...	6.596	41	0.61	300.1 -> 282...		Chlordiazepoxide-D5	305.1 -> 286...	6.636	217610
Clomipramine	315.2 -> 86.2	5/2/2017 12:41 PM	P2...				315.2 -> 58.3		Clomipramine-D3	318.2 -> 89.2	6.957	21729...
Cocaine	304.2 -> 182...	5/2/2017 12:41 PM	P2...	5.963	944	1.08	304.2 -> 105...	31.2	Cocaine-D3	307.2 -> 185...	5.922	711410
Desipramine	267.2 -> 72.3	5/2/2017 12:41 PM	P2...	6.540	140828	Infinity	267.2 -> 44.3	17.5	Desipramine-D3	270.2 -> 75.3	6.540	14837...
Doxepin	280.2 -> 107...	5/2/2017 12:41 PM	P2...	6.559	786	Infinity	280.2 -> 77.2		Doxepin-D3	283.2 -> 107...	6.416	702277
Estazolam	295.1 -> 267...	5/2/2017 12:41 PM	P2...	6.536	160	1.20	295.1 -> 205...		Estazolam-D5	300.1 -> 272...	6.453	336669
Flunitrazepam	314.1 -> 268...	5/2/2017 12:41 PM	P2...	6.513	2196	Infinity	314.1 -> 239...	24.0	Flunitrazepam-D7	321.1 -> 245...	6.491	12930
Flurazepam	388.2 -> 315...	5/2/2017 12:41 PM	P2...	6.527	49	0.75	388.2 -> 317...		Zopiclone-D4	393.1 -> 244...	6.465	64676
Imipramine	281.2 -> 86.2	5/2/2017 12:41 PM	P2...	6.659	3462	7.49	281.2 -> 58.3	34.6	Imipramine-D3	284.2 -> 61.3	6.659	12255...
Levamisole	205.1 -> 91.2	5/2/2017 12:41 PM	P2...	5.650	1059	1.38	205.1 -> 178...	75.0	Cocaine-D3	307.2 -> 185...	5.922	711410
Maprotiline	278.2 -> 91.2	5/2/2017 12:41 PM	P2...	6.498	2468	0.58	278.2 -> 117...		Meperidine-D4	252.2 -> 224...	5.972	326718
MDA	180.1 -> 163...	5/2/2017 12:41 PM	P2...				180.1 -> 105...		MDA-D5	185.1 -> 168...	5.185	289445
MDEA	208.1 -> 163...	5/2/2017 12:41 PM	P2...				208.1 -> 105...		MDEA-D6	214.2 -> 166...	5.466	514233
MDMA	194.1 -> 163...	5/2/2017 12:41 PM	P2...				194.1 -> 105...		MDMA-D6	200.2 -> 166...	5.325	54881
Meperidine	248.2 -> 220...	5/2/2017 12:41 PM	P2...				248.2 -> 174...		Meperidine-D4	252.2 -> 224...	5.972	326718
Methylphenidate	234.2 -> 84.2	5/2/2017 12:41 PM	P2...	5.729	66	0.80	234.2 -> 56.3	75.6	Meperidine-D4	252.2 -> 224...	5.972	326718
Metoprolol	268.2 -> 116...	5/2/2017 12:41 PM	P2...				268.2 -> 56.3		Meperidine-D4	252.2 -> 224...	5.972	326718
Midazolam	326.1 -> 223...	5/2/2017 12:41 PM	P2...				326.1 -> 249...		Midazolam-D4	330.1 -> 295...	6.692	429313
Mirtazapine	266.2 -> 195...	5/2/2017 12:41 PM	P2...	6.541	18938...	Infinity	266.2 -> 72.3	65.4	Midazolam-D4	330.1 -> 295...	6.692	429313
Mitragynine	399.2 -> 174...	5/2/2017 12:41 PM	P2...	6.586	85	57.25	399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.197	11743...
Normeperidine	234.1 -> 42.3	5/2/2017 12:41 PM	P2...				234.1 -> 160...		Normeperidine-D4	238.2 -> 164...	5.810	290507
Norpropoxyphene	326.2 -> 44.3	5/2/2017 12:41 PM	P2...				326.2 -> 252...		Norpropoxyphene-D5	331.2 -> 44.3	6.408	82596
Nortriptyline	264.2 -> 91.2	5/2/2017 12:41 PM	P2...	6.602	17473	Infinity	264.2 -> 233...	7.2	Nortriptyline-D3	267.2 -> 233...	6.581	402217
Ondansetron	294.2 -> 184...	5/2/2017 12:41 PM	P2...				294.2 -> 212...		Pentazocine-13C3	289.2 -> 72.3	5.885	510972
Pentazocine	286.2 -> 218...	5/2/2017 12:41 PM	P2...				286.2 -> 41.3		Pentazocine-13C3	289.2 -> 72.3	5.885	510972
Phenazepam	349.0 -> 206...	5/2/2017 12:41 PM	P2...	6.488	1975	7.76	349.0 -> 183...		Phenazepam-D4	353.0 -> 183...	6.588	15736
Phencyclidine	244.2 -> 86.2	5/2/2017 12:41 PM	P2...	6.136	345	3.14	244.2 -> 91.1		Phencyclidine-D5	249.2 -> 86.2	6.115	988317
Phenylethylamine	253.1 -> 104...	5/2/2017 12:41 PM	P2...	6.196	216	1.00	253.1 -> 182...		Phenylethylamine-D10	263.2 -> 192...	6.094	17267
Prazepam	325.1 -> 271...	5/2/2017 12:41 PM	P2...	6.977	285	1.82	325.1 -> 140...	17.4	Prazepam-D5	339.1 -> 276...	6.995	933847
Primidone	219.1 -> 91.2	5/2/2017 12:41 PM	P2...				219.1 -> 162...		Prazepam-D5	339.1 -> 276...	6.995	933847
Propoxyphene	340.2 -> 58.3	5/2/2017 12:41 PM	P2...				340.2 -> 266...		Propoxyphene-D11	353.3 -> 277...	6.487	324846
Protriptyline	264.2 -> 155...	5/2/2017 12:41 PM	P2...	6.481	76	2.75	264.2 -> 161...		Nortriptyline-D3	267.2 -> 233...	6.581	402217
Pseudoephedrine	166.1 -> 148...	5/2/2017 12:41 PM	P2...				166.1 -> 133...		Pseudoephedrine-D3	169.1 -> 151...	4.822	475948
Tapentadol	222.2 -> 107...	5/2/2017 12:41 PM	P2...				222.2 -> 121...		Tapentadol-D3	225.2 -> 107...	5.649	751004
Trimipramine	295.2 -> 100...	5/2/2017 12:41 PM	P2...				295.2 -> 58.3		Trimipramine-D3	298.2 -> 103...	6.759	24247...
Verapamil	455.3 -> 165...	5/2/2017 12:41 PM	P2...				455.3 -> 150...		Trimipramine-D3	298.2 -> 103...	6.759	24247...
Zaleplon	306.1 -> 236...	5/2/2017 12:41 PM	P2...				306.1 -> 264...		Zaleplon-D4	310.2 -> 240...	6.289	235082
Zopiclone	389.1 -> 244...	5/2/2017 12:41 PM	P2...	6.465	86	0.36	389.1 -> 216...		Zopiclone-D4	393.1 -> 244...	6.465	64676

23

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

Extraction Date: 5-1-17

Analyst: B. Wylie

PRE-ANALYTIC

Plate Lot# _____ Stock THC plate: 0483844 Plate Exp: 6/15/2017

- ✓ 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 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: 5-1-17 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: 5-1-17 Cannabinoids 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:

BW

ISP FORENSICS - Cd'A

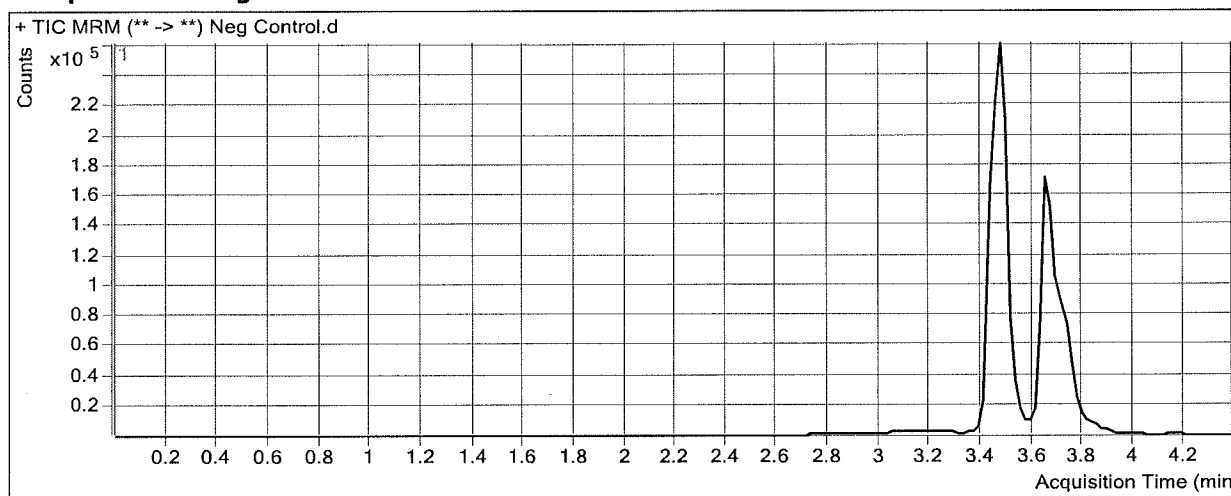
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 15:56 **Data File** Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-b2 **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	3.466	33564	157185	0.2135	2.5987

ISP FORENSICS - Cd'A

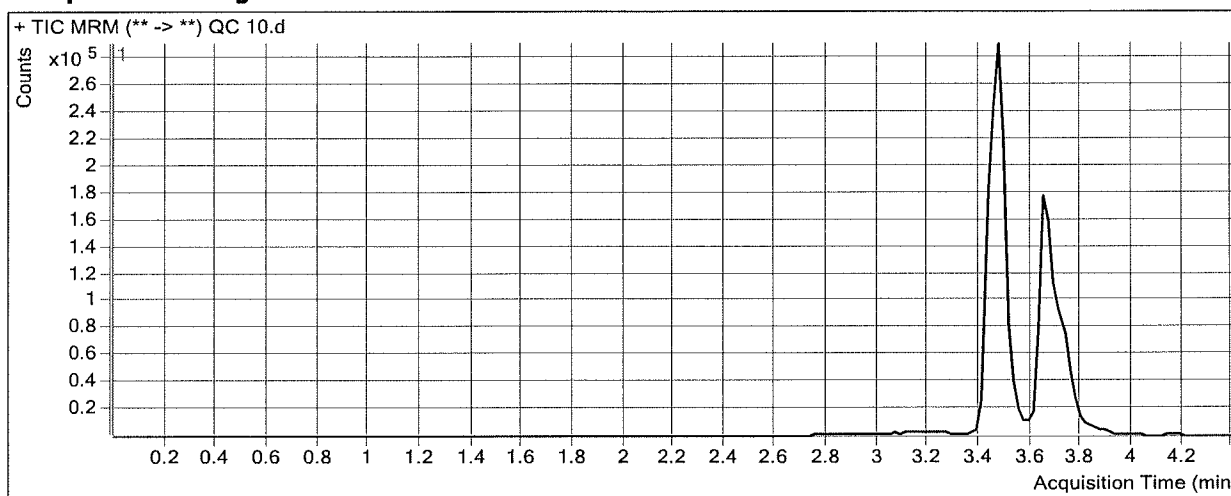
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 16:16 **Data File** QC 10.d
Sample Type QC **Sample Name** QC 10
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-A3 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram

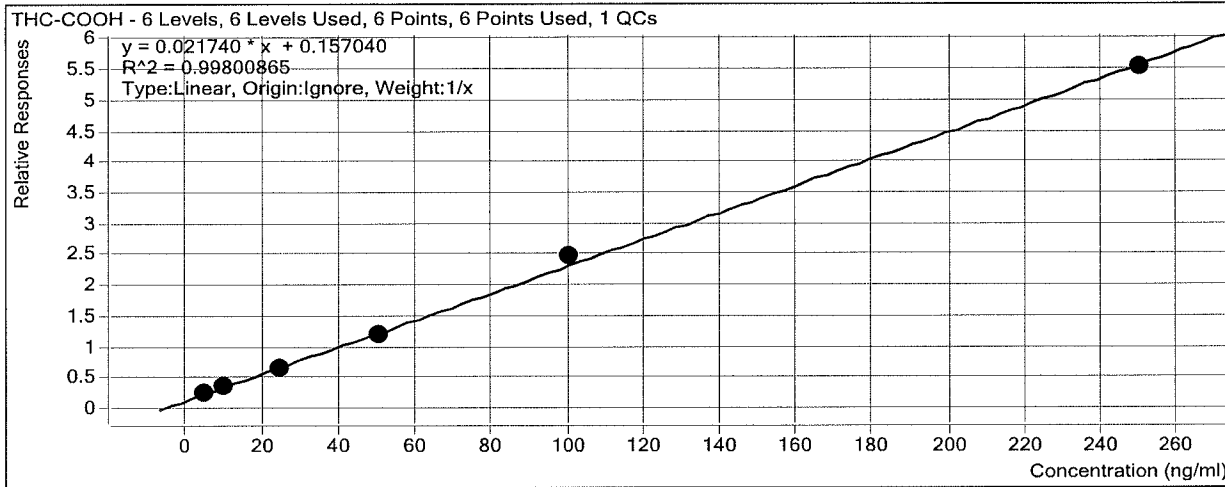


Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.466	61748	152270	0.4055	11.4296
THC-OH	3.473	108895	970197	0.1122	10.2412
THC	3.740	3362	33749	0.0996	8.8135

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Last Calib Update 5/2/2017 3:51 PM **Analyst Name** ISP TOX
Target Compound *THC-COOH*
Internal Standard *THC-COOH-d9*

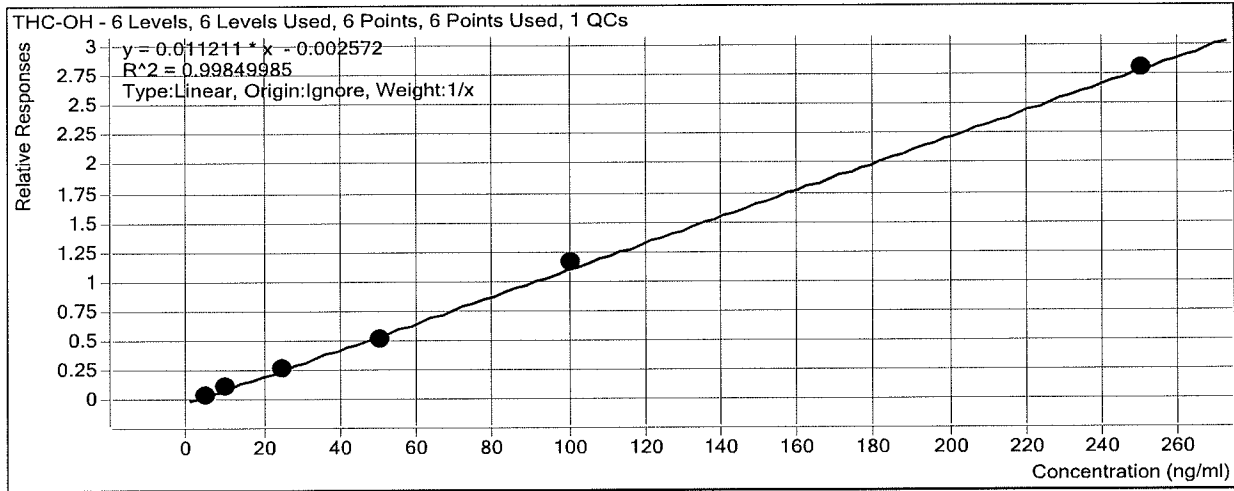


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.1	102.9
cal 3	3	<input checked="" type="checkbox"/>	10	10.2	102.3
QC 10	3	<input checked="" type="checkbox"/>	10	11.4	114.3
cal 4	4	<input checked="" type="checkbox"/>	25	23.6	94.4
cal 5	5	<input checked="" type="checkbox"/>	50	47.5	95.0
cal 6	6	<input checked="" type="checkbox"/>	100	106.6	106.6
cal 7	7	<input checked="" type="checkbox"/>	250	246.9	98.8

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Last Calib Update 5/2/2017 3:51 PM **Analyst Name** ISP TOX

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

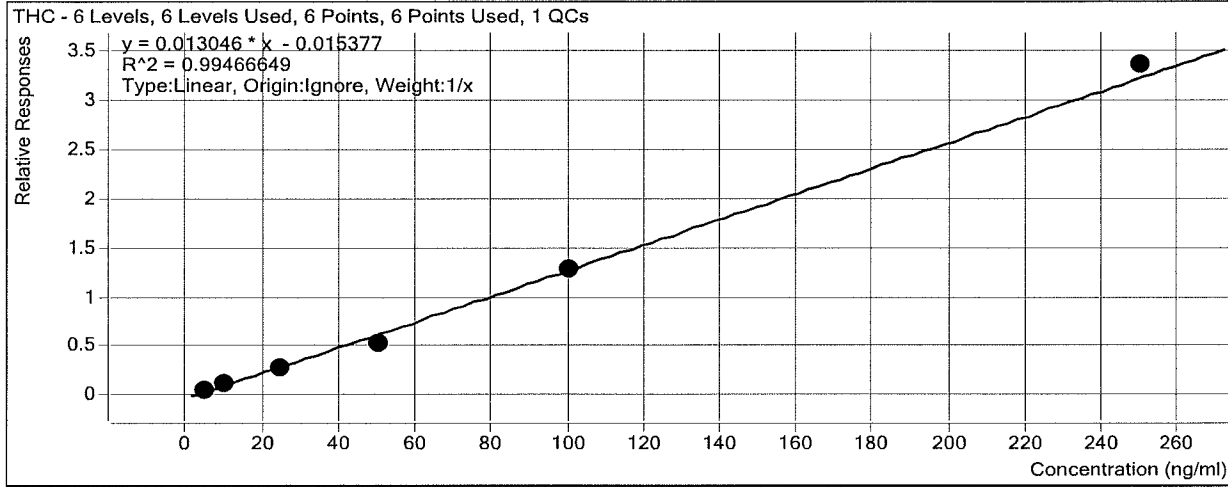


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.1	101.4
cal 3	3	<input checked="" type="checkbox"/>	10	10.6	105.8
QC 10	3	<input checked="" type="checkbox"/>	10	10.2	102.4
cal 4	4	<input checked="" type="checkbox"/>	25	24.1	96.3
cal 5	5	<input checked="" type="checkbox"/>	50	46.2	92.4
cal 6	6	<input checked="" type="checkbox"/>	100	104.0	104.0
cal 7	7	<input checked="" type="checkbox"/>	250	250.1	100.0

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Last Calib Update 5/2/2017 3:51 PM **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	5.9	118.3
cal 3	3	<input checked="" type="checkbox"/>	10	10.1	101.3
QC 10	3	<input checked="" type="checkbox"/>	10	8.8	88.1
cal 4	4	<input checked="" type="checkbox"/>	25	23.2	92.6
cal 5	5	<input checked="" type="checkbox"/>	50	42.1	84.3
cal 6	6	<input checked="" type="checkbox"/>	100	99.9	99.9
cal 7	7	<input checked="" type="checkbox"/>	250	258.7	103.5

ISP FORENSICS - Cd'A

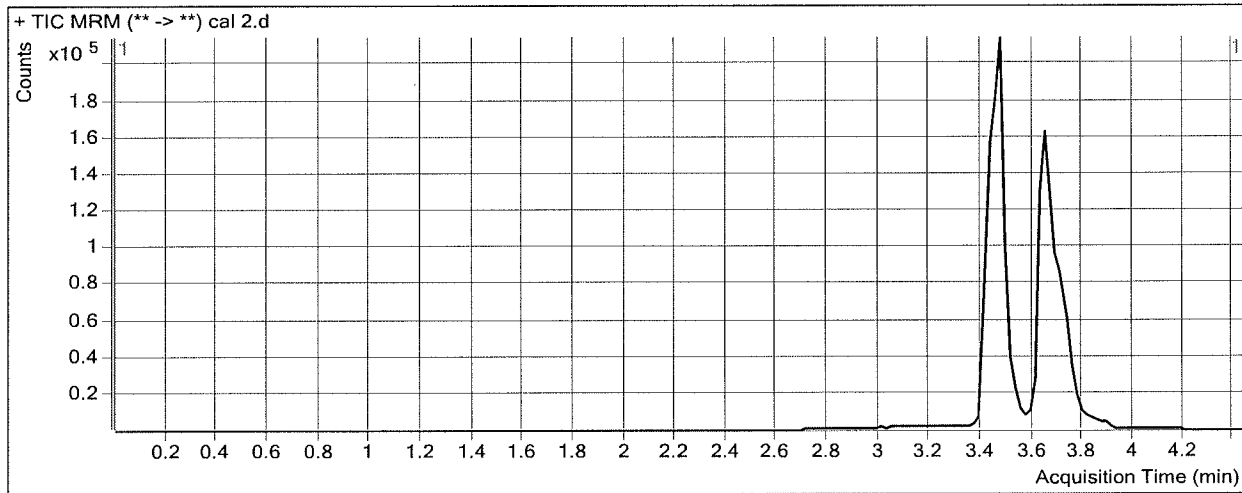
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 15:23 **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	3.446	33531	124723	0.2688	5.1429
THC-OH	3.473	39459	726874	0.0543	5.0717
THC	3.740	2031	32846	0.0618	5.9173

ISP FORENSICS - Cd'A

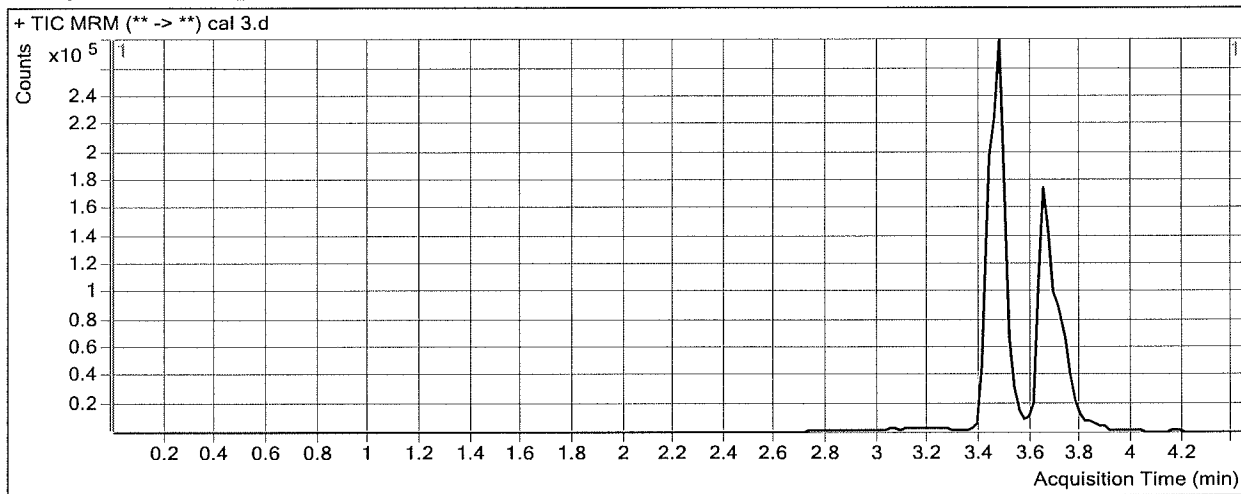
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 15:29 **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	3.466	55372	145918	0.3795	10.2317
THC-OH	3.473	105781	911415	0.1161	10.5821
THC	3.740	3661	31349	0.1168	10.1307

ISP FORENSICS - Cd'A

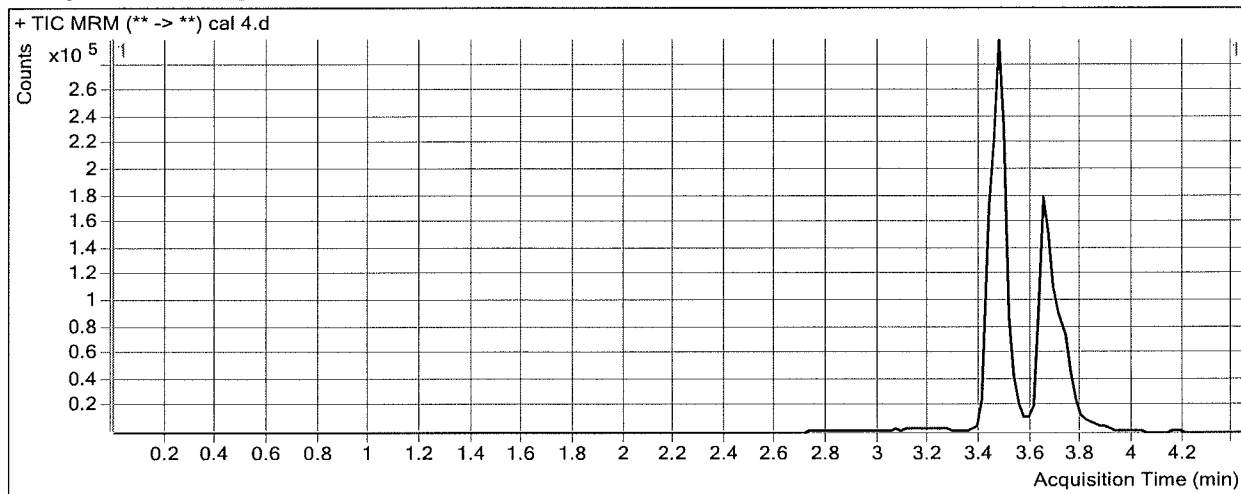
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 15:36 **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	3.466	91565	136611	0.6703	23.6074
THC-OH	3.473	217970	815034	0.2674	24.0846
THC	3.740	8849	30858	0.2868	23.1598

ISP FORENSICS - Cd'A

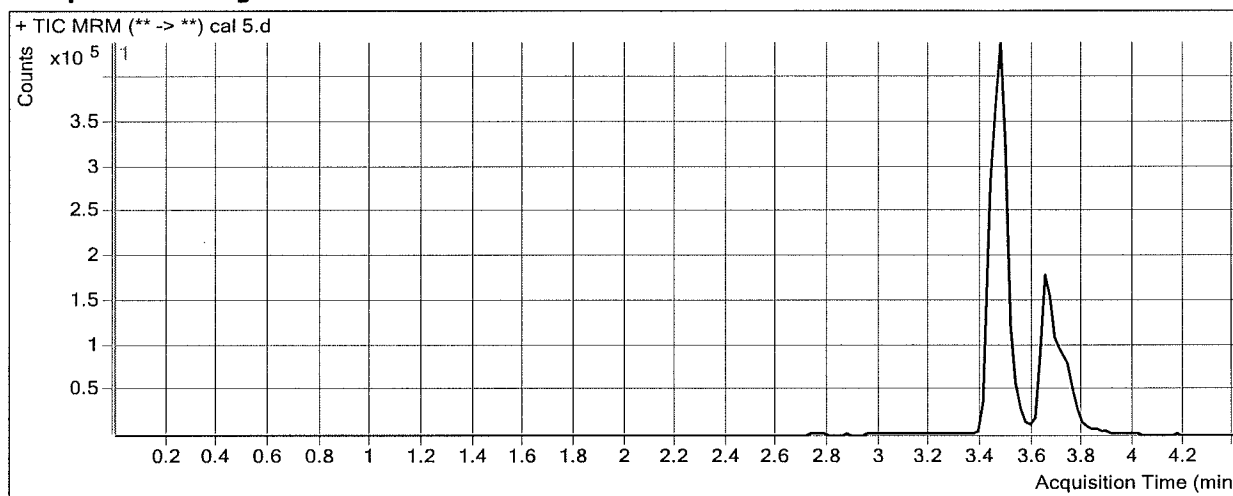
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 15:42 **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	3.466	190053	159710	1.1900	47.5144
THC-OH	3.473	512275	994095	0.5153	46.1954
THC	3.740	18367	34364	0.5345	42.1465

ISP FORENSICS - Cd'A

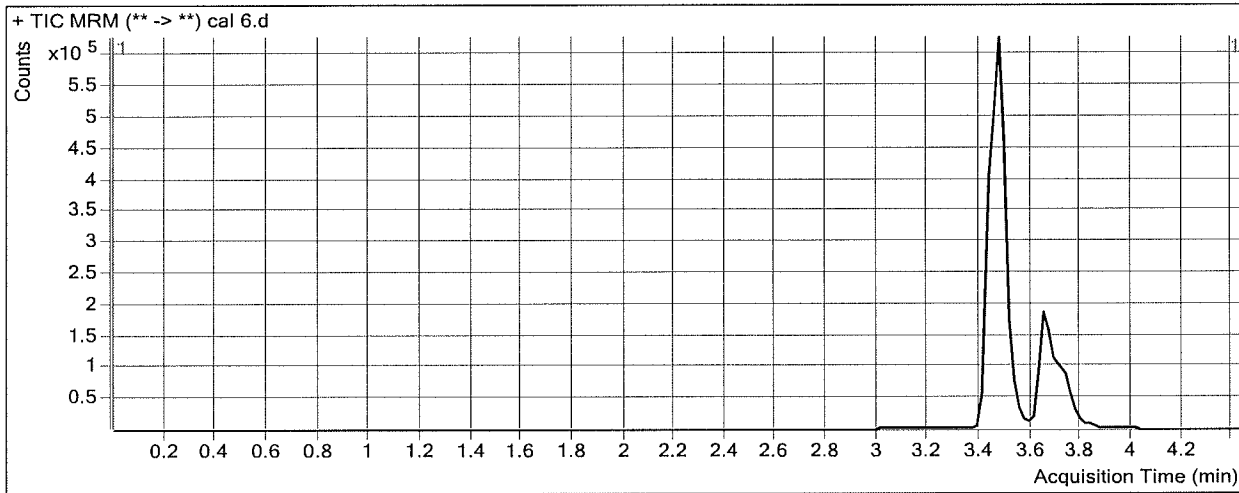
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 15:49 **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	3.466	351081	141870	2.4747	106.6085
THC-OH	3.473	1107131	951844	1.1631	103.9811
THC	3.740	44112	34241	1.2883	99.9262

ISP FORENSICS - Cd'A

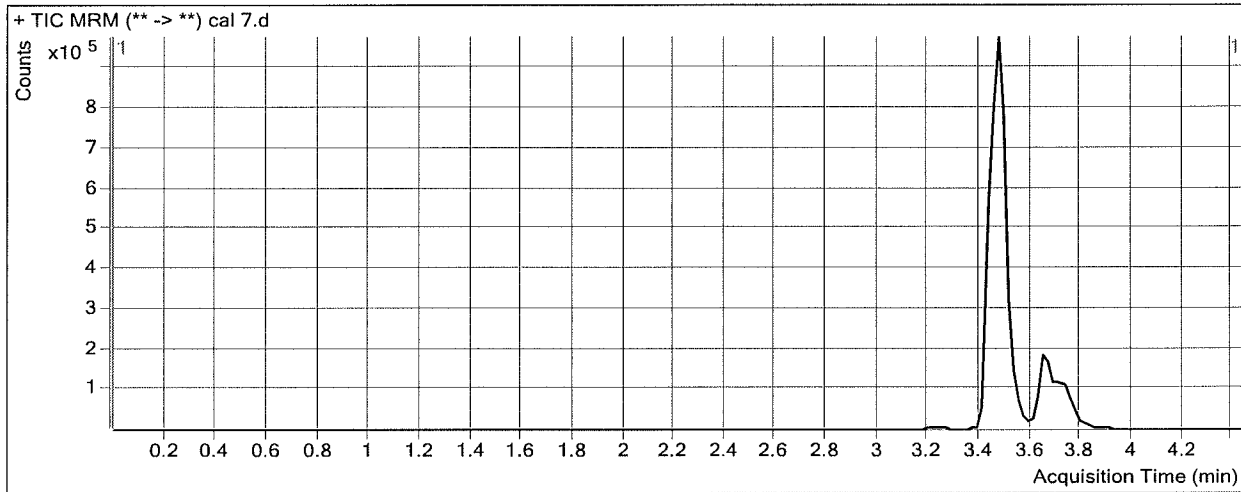
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 16:02 **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	3.466	682256	123497	5.5245	246.8950
THC-OH	3.473	2291415	818044	2.8011	250.0851
THC	3.740	108521	32298	3.3600	258.7195

ISP FORENSICS - Cd'A

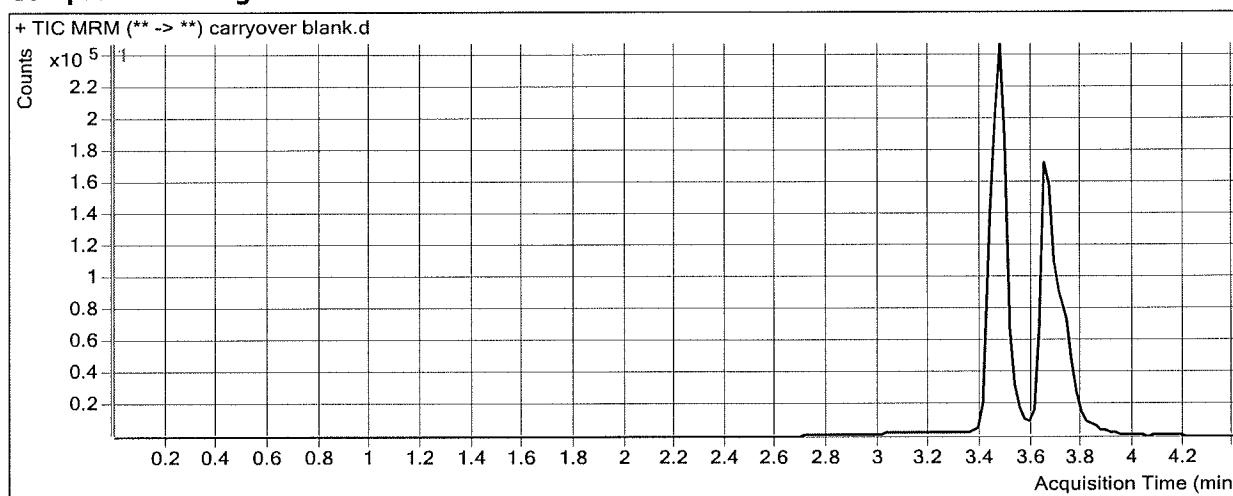
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-1-17 blood screen AM 25-26\QuantResults\5-1-17 Cannabinoid Screen.batch.bin
Analysis Time 5/2/2017 3:51 PM **Analyst Name** ISP Tox
Report Time 5/2/2017 3:53 PM **Reporter Name** ISP Tox
Last Calib Update 5/2/2017 3:51 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-01 16:09 **Data File** carryover blank.d
Sample Type Sample **Sample Name** carryover blank
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-A2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.466	35281	141917	0.2486	4.2117