

B. Wylee

Worklist: 2084

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-2481	1	101872	AM 25/AM 26 Blood MultiDrug/	
C2017-2492	1	102143	AM 25/AM 26 Blood MultiDrug/	
C2017-2493	1	102154	AM 25/AM 26 Blood MultiDrug/	
C2017-2493	2	102157	AM 25/AM 26 Blood MultiDrug/	
C2017-2520	1	102400	AM 25/AM 26 Blood MultiDrug/	
C2017-2530	1	102668	AM 25/AM 26 Blood MultiDrug/	
C2017-2531	2	102671	AM 25/AM 26 Blood MultiDrug/	
C2017-2534	1	102676	AM 25/AM 26 Blood MultiDrug/	
C2017-2535	1	102678	AM 25/AM 26 Blood MultiDrug/	
C2017-2536	1	102682	AM 25/AM 26 Blood MultiDrug/	
C2017-2542	1	102726	AM 25/AM 26 Blood MultiDrug/	
M2017-5241	1	102390	AM 25/AM 26 Blood MultiDrug/	
M2017-5347	2	102392	AM 25/AM 26 Blood MultiDrug/	
M2017-5462	1	102393	AM 25/AM 26 Blood MultiDrug/	
M2017-5506	1	102394	AM 25/AM 26 Blood MultiDrug/	
M2017-5506	2	102395	AM 25/AM 26 Blood MultiDrug/	
M2017-5507	1	102398	AM 25/AM 26 Blood MultiDrug/	
M2017-5615	2	101925	AM 25/AM 26 Blood MultiDrug/	
M2017-5616	9	101922	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 12-18-17

Analyst: Anne Nord

Plate lot#: 0515207

Plate Expiration: 10/18/2018

Mobile phase A: 10mM Ammonium Formate
0.5M Ammonium Hydroxide

Mobile phase B 0.1% Formic acid in MeOH
Ethyl Acetate

Blank Blood Lot: 17J20718

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

LCMS-QQQ ID: 62340

Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist:

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID66759*
- 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66729
Wait 5 minutes
- 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 ID66819
- 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST- ANALYTIC

- 1. Create batch and process data.
Worklist path: 121817 blood screen AM 25-26 Batch Name: 121817 MDS P1
- 2. 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.
- 3. Did all QCs pass for each analyte? Y / N _____
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

Toxicology AM method 25 external prep information

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

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

Ppd 3/31/17 Exp: 3/31/18 lot 92117 by Amn

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 (92117) in 9900 ul neg blood

ppd 3/21/17 Exp 6/21/17 lot 62117

Ppd 6-26-17 Exp 9-26-17 lot 92617 (may be listed as 92117)

ppd 9-22-17 Exp 12-22-17 Lot 12-22-17

neg blood lot 321632-1

by Amn

neg blood lot 321632-1

by Amn

neg blood lot 17120718

by Amn

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

Compound Method		p1 cal 1-2a		p1 cal 1-2a Results		Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	ME	Transition	ME	S/N	Name	RT	Resp.	
6-MAM	328.2 -> 165...	12/18/2017 2:29 PM	4.772	1201	Infinity	<input checked="" type="checkbox"/>	328.2 -> 211...	<input type="checkbox"/>	24.83	6-MAM-D6	4.792	35379	
7-aminoclonazepam	286.1 -> 121...	12/18/2017 2:29 PM	5.489	23878	138.26	<input type="checkbox"/>	286.1 -> 222...	<input type="checkbox"/>	18.69	7-Aminoclonazepam-D4	5.467	110769	
Acetyl Fentanyl	323.2 -> 105...	12/18/2017 2:29 PM	5.668	15635	67.81	<input type="checkbox"/>	323.2 -> 188...	<input type="checkbox"/>	35.39	Acetyl Fentanyl-D5	5.666	960374	
Acetyl Norfentanyl	219.1 -> 84.2	12/18/2017 2:29 PM	4.787	6856	1853.62	<input type="checkbox"/>	219.1 -> 56.3	<input type="checkbox"/>	11.23	Acetyl Norfentanyl-D5	4.787	366585	
a-hydroxylprazolam	325.1 -> 297...	12/18/2017 2:29 PM	6.380	5659	13.99	<input type="checkbox"/>	325.1 -> 215...	<input type="checkbox"/>	7.91	a-hydroxylprazolam-D5	6.379	25740	
alpha-PVP	232.2 -> 91.0	12/18/2017 2:29 PM	5.435	102369	250.58	<input type="checkbox"/>	232.2 -> 77.1	<input type="checkbox"/>	40.53	alpha-PVP-D8	5.433	486442	
Alprazolam	309.1 -> 281...	12/18/2017 2:29 PM	6.465	49539	4926.92	<input type="checkbox"/>	309.1 -> 205...	<input type="checkbox"/>	766.84	Alprazolam-D5	6.464	198178	
Amphetamine	136.1 -> 91.1	12/18/2017 2:29 PM	4.729	74232	104.12	<input type="checkbox"/>	136.1 -> 119...	<input type="checkbox"/>	52.51	Amphetamine-D11	4.688	81394	
Bupropion	240.1 -> 184...	12/18/2017 2:29 PM	5.638	82800	1117.53	<input type="checkbox"/>	240.1 -> 131...	<input type="checkbox"/>	31.50	Bupropion-D9	5.617	365331	
Carisoprodol	261.2 -> 176...	12/18/2017 2:29 PM	6.106	50532	18.80	<input type="checkbox"/>	261.2 -> 55.3	<input type="checkbox"/>	19.03	Carisoprodol-D7	6.105	325750	
Citalopram	325.2 -> 109...	12/18/2017 2:29 PM	5.972	147161	250.73	<input type="checkbox"/>	325.2 -> 262...	<input type="checkbox"/>	297.17	Citalopram-D6	5.971	685698	
Clonazepam	316.1 -> 269...	12/18/2017 2:29 PM	6.321	18223	65.25	<input type="checkbox"/>	316.1 -> 213...	<input type="checkbox"/>	44.52	Clonazepam-D4	6.320	29850	
Codeine	300.2 -> 215...	12/18/2017 2:29 PM	4.657	6517	4332.04	<input type="checkbox"/>	300.2 -> 165...	<input type="checkbox"/>	32.68	Codeine-D6	4.654	24402	
Cyclobenzaprine	276.2 -> 214...	12/18/2017 2:29 PM	6.226	87825	181.76	<input type="checkbox"/>	276.2 -> 231...	<input type="checkbox"/>	25.69	Cyclobenzaprine-D3	6.225	418208	
Dextromethorphan	272.2 -> 171...	12/18/2017 2:29 PM	5.981	37293	157.70	<input type="checkbox"/>	272.2 -> 147...	<input type="checkbox"/>	147.02	Dextromethorphan-D3	5.981	206637	
Dextropropriphan	258.2 -> 157...	12/18/2017 2:29 PM	5.330	36142	5412.10	<input type="checkbox"/>	258.2 -> 133...	<input type="checkbox"/>	124.82	Dextropropriphan-D3	5.329	207238	
Diazepam	285.1 -> 193...	12/18/2017 2:29 PM	6.711	46340	58.68	<input type="checkbox"/>	285.1 -> 153...	<input type="checkbox"/>	43.14	Diazepam-D5	6.690	193669	
Dihydrocodeine	302.2 -> 198...	12/18/2017 2:29 PM	4.635	19054	58.28	<input type="checkbox"/>	302.2 -> 128...	<input type="checkbox"/>	63.15	Dihydrocodeine-D6	4.614	86797	
Diphenhydramine	256.2 -> 167...	12/18/2017 2:29 PM	5.944	209355	230.54	<input type="checkbox"/>	256.2 -> 152...	<input type="checkbox"/>	6371...	Diphenhydramine-D3	5.943	11898...	
Doxylamine	271.2 -> 182...	12/18/2017 2:29 PM	5.655	168129	33.38	<input type="checkbox"/>	271.2 -> 167...	<input type="checkbox"/>	14.22	Doxylamine-D5	5.654	983319	
EDDP	279.2 -> 235...	12/18/2017 2:29 PM	5.980	140080	2837.29	<input type="checkbox"/>	279.2 -> 250...	<input type="checkbox"/>	361.39	EDDP-D3	5.979	61918	
Fentanyl	337.2 -> 105...	12/18/2017 2:29 PM	5.868	17548	29.22	<input type="checkbox"/>	337.2 -> 188...	<input type="checkbox"/>	97.29	Fentanyl-D5	5.888	891089	
Fluoxetine	310.1 -> 44.3	12/18/2017 2:29 PM	6.220	224394	1998.88	<input checked="" type="checkbox"/>	310.1 -> 148...	<input type="checkbox"/>	Infinity	Oxycodone-D6	4.794	165445	
Hydrocodone	300.2 -> 198...	12/18/2017 2:29 PM	4.878	25468	Infinity	<input type="checkbox"/>	300.2 -> 128...	<input type="checkbox"/>	Infinity	Hydrocodone-D6	4.876	133725	
Hydromorphone	286.2 -> 184...	12/18/2017 2:29 PM	4.278	11489	Infinity	<input type="checkbox"/>	286.2 -> 157...	<input type="checkbox"/>	26.89	Hydromorphone-D6	4.277	45819	
Ketamine	238.1 -> 125...	12/18/2017 2:29 PM	5.271	62719	174.24	<input type="checkbox"/>	238.1 -> 220...	<input type="checkbox"/>	15.07	Ketamine-D4	5.250	255589	
Meprobamate	219.1 -> 158...	12/18/2017 2:29 PM	5.619	24318	3.40	<input checked="" type="checkbox"/>	219.1 -> 97.1	<input type="checkbox"/>	3.27	Meprobamate-D7	5.599	99429	
Methadone	310.2 -> 265...	12/18/2017 2:29 PM	6.281	154543	Infinity	<input type="checkbox"/>	310.2 -> 105...	<input type="checkbox"/>	339.03	Methadone-D9	6.260	854964	
Methamphetamine	150.1 -> 91.1	12/18/2017 2:29 PM	4.889	83015	Infinity	<input checked="" type="checkbox"/>	150.1 -> 119...	<input type="checkbox"/>	Infinity	Methamphetamine-D11	4.848	111629	
Morphine	286.2 -> 201...	12/18/2017 2:29 PM	3.998	2992	16.67	<input type="checkbox"/>	286.2 -> 165...	<input type="checkbox"/>	14.76	Morphine-D6	3.974	2011	
Naloxone	328.2 -> 309...	12/18/2017 2:29 PM	4.591	12971	2613.73	<input type="checkbox"/>	328.2 -> 211...	<input type="checkbox"/>	230.47	Naloxone-D5	4.571	108487	
Naltrexol	344.2 -> 326...	12/18/2017 2:29 PM	4.811	59271	185.82	<input type="checkbox"/>	344.2 -> 308...	<input type="checkbox"/>	463.24	Naltrexol-D3	4.810	211234	
Naltrexone	342.2 -> 324...	12/18/2017 2:29 PM	4.751	27074	160.87	<input type="checkbox"/>	342.2 -> 55.3	<input type="checkbox"/>	Infinity	Naltrexone-D3	4.730	140066	
Norbuprenorphine	414.3 -> 101...	12/18/2017 2:29 PM	5.723	4726	676.14	<input type="checkbox"/>	414.3 -> 57.3	<input type="checkbox"/>	778.77	Norbuprenorphine-D3	5.744	22472	
Nordiazepam	271.1 -> 140...	12/18/2017 2:29 PM	6.553	30478	90.88	<input type="checkbox"/>	271.1 -> 208...	<input type="checkbox"/>	30.68	Nordiazepam-D5	6.552	91931	
Norfentanyl	233.2 -> 84.2	12/18/2017 2:29 PM	5.251	129322	633.97	<input type="checkbox"/>	233.2 -> 55.3	<input type="checkbox"/>	Infinity	Norfentanyl-D5	5.251	580123	
Norhydrocodone	286.2 -> 199...	12/18/2017 2:29 PM	4.860	2043	19.28	<input type="checkbox"/>	286.2 -> 171...	<input type="checkbox"/>	3.96	Norhydrocodone-D3	4.840	42337	
Noroxycodone	302.1 -> 284...	12/18/2017 2:29 PM	4.797	17804	Infinity	<input type="checkbox"/>	302.1 -> 186...	<input type="checkbox"/>	729.66	Noroxycodone-D3	4.775	74499	
O-desmethyl-tramadol	250.2 -> 58.3	12/18/2017 2:29 PM	4.825	171026	932.40	<input type="checkbox"/>	250.2 -> 42.3	<input type="checkbox"/>	1313...	O-desmethyl-tramadol-...	4.824	749734	
Oxazepam	287.1 -> 240...	12/18/2017 2:29 PM	6.406	20842	35.85	<input type="checkbox"/>	287.1 -> 268...	<input type="checkbox"/>	8.89	Oxazepam-D5	6.386	111101	
Oxycodone	316.2 -> 298...	12/18/2017 2:29 PM	4.814	32556	80.23	<input type="checkbox"/>	316.2 -> 241...	<input type="checkbox"/>	38.00	Oxycodone-D6	4.794	165445	
Oxymorphone	302.1 -> 284...	12/18/2017 2:29 PM	4.133	16684	Infinity	<input type="checkbox"/>	302.1 -> 227...	<input type="checkbox"/>	14.45	Oxymorphone-D3	4.131	25403	
Phentermine	150.1 -> 65.2	12/18/2017 2:29 PM	5.051	16844	7.72	<input checked="" type="checkbox"/>	150.1 -> 133...	<input type="checkbox"/>	Infinity	Phentermine-D5	5.031	236890	
Promethazine	285.1 -> 86.2	12/18/2017 2:29 PM	6.203	282242	Infinity	<input type="checkbox"/>	285.1 -> 71.3	<input type="checkbox"/>	94.05	Promethazine-D3	6.182	15682...	
Quetiapine	384.2 -> 253...	12/18/2017 2:29 PM	6.131	157308	306.80	<input type="checkbox"/>	384.2 -> 221...	<input type="checkbox"/>	293.40	Quetiapine-D8	6.110	221613	
Sertraline	306.1 -> 158...	12/18/2017 2:29 PM	6.425	69010	305.19	<input type="checkbox"/>	306.1 -> 275...	<input type="checkbox"/>	127.65	Sertraline-D3	6.424	342799	
Sufentanil	387.2 -> 238...	12/18/2017 2:29 PM	6.111	13040	2234.98	<input type="checkbox"/>	387.2 -> 111...	<input type="checkbox"/>	416.47	Sufentanil-D5	6.110	515583	

amin
peak shape ok
evaluated as positive



Compound Method		p1 cal 1-2a		p1 cal 1-2a Results		Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	ME	Transition	ME	S/N	Name	RT	Resp.	
Temazepam	301.1 -> 255...	12/18/2017 2:29 PM	6.548	72256	192.66	<input type="checkbox"/>	301.1 -> 283...	<input type="checkbox"/>	Infinity	Temazepam-D5	6.527	349868	
Tramadol	264.2 -> 58.3	12/18/2017 2:29 PM	5.370	220857	Infinity	<input type="checkbox"/>	264.2 -> 43.3	<input checked="" type="checkbox"/>	Infinity	Tramadol-13C-D3	5.349	10245...	
Trazodone	372.2 -> 176...	12/18/2017 2:29 PM	6.071	1716	Infinity	<input checked="" type="checkbox"/>	372.2 -> 148...	<input checked="" type="checkbox"/>	Infinity	Trazodone-D6	6.070	5234	
Venlafaxine	278.2 -> 58.3	12/18/2017 2:29 PM	5.735	213793	Infinity	<input type="checkbox"/>	278.2 -> 260...	<input type="checkbox"/>	53.05	Venlafaxine-D6	5.734	942976	
Zolpidem	308.2 -> 235...	12/18/2017 2:29 PM	5.691	121598	Infinity	<input type="checkbox"/>	308.2 -> 263...	<input type="checkbox"/>	107.94	Zolpidem-D6	5.670	649984	

Compound Method		p1 negative control		p1 negative control Results			Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.		
6-MAM	328.2 -> 165...	12/18/2017 9:07 PM					328.2 -> 211...			6-MAM-D6	4.792	31533		
7-aminoclonazepam	286.1 -> 121...	12/18/2017 9:07 PM					286.1 -> 222...			7-Aminoclonazepam-D4	5.488	117633		
Acetyl Fentanyl	323.2 -> 105...	12/18/2017 9:07 PM					323.2 -> 188...			Acetyl Fentanyl-D5	5.666	930709		
Acetyl Norfentanyl	219.1 -> 84.2	12/18/2017 9:07 PM					219.1 -> 56.3			Acetyl Norfentanyl-D5	4.787	379197		
a-hydroxylprazosolam	325.1 -> 297...	12/18/2017 9:07 PM					325.1 -> 215...			a-hydroxylprazosolam-D5	6.379	26136		
alpha-PVP	232.2 -> 91.0	12/18/2017 9:07 PM					232.2 -> 77.1			alpha-PVP-d8	5.433	461897		
Alprazolam	309.1 -> 281...	12/18/2017 9:07 PM					309.1 -> 205...			Alprazolam-D5	6.464	197585		
Amphetamine	136.1 -> 91.1	12/18/2017 9:07 PM					136.1 -> 119...			Amphetamine-D11	4.709	89560		
Bupropion	240.1 -> 184...	12/18/2017 9:07 PM					240.1 -> 131...			Bupropion-D9	5.638	388976		
Carisoprodol	261.2 -> 176...	12/18/2017 9:07 PM					261.2 -> 55.3			Carisoprodol-D7	6.105	326739		
Citalopram	325.2 -> 109...	12/18/2017 9:07 PM					325.2 -> 262...			Citalopram-D6	5.971	700864		
Clonazepam	316.1 -> 269...	12/18/2017 9:07 PM					316.1 -> 213...			Clonazepam-D4	6.320	29062		
Codeine	300.2 -> 215...	12/18/2017 9:07 PM					300.2 -> 165...			Codeine-D6	4.654	24771		
Cyclobenzaprine	276.2 -> 214...	12/18/2017 9:07 PM					276.2 -> 231...			Cyclobenzaprine-D3	6.225	435687		
Dextromethorphan	272.2 -> 171...	12/18/2017 9:07 PM					272.2 -> 147...			Dextromethorphan-D3	5.981	197081		
Dextroproprian	258.2 -> 157...	12/18/2017 9:07 PM					258.2 -> 133...			Dextroproprian-D3	5.329	210545		
Diazepam	285.1 -> 193...	12/18/2017 9:07 PM					285.1 -> 153...			Diazepam-D5	6.690	176042		
Dihydrocodeine	302.2 -> 198...	12/18/2017 9:07 PM					302.2 -> 128...			Dihydrocodeine-D6	4.614	92714		
Diphenhydramine	256.2 -> 167...	12/18/2017 9:07 PM	6.005	700	6.21		256.2 -> 152...			Diphenhydramine-D3	5.943	11708...		
Doxylamine	271.2 -> 182...	12/18/2017 9:07 PM					271.2 -> 167...			Doxylamine-D5	5.634	866290		
EDDP	279.2 -> 235...	12/18/2017 9:07 PM	6.428	204	1.78		279.2 -> 250...			EDDP-D3	5.979	63961		
Fentanyl	337.2 -> 105...	12/18/2017 9:07 PM					337.2 -> 188...			Fentanyl-D5	5.868	876896		
Fluoxetine	310.1 -> 44.3	12/18/2017 9:07 PM					310.1 -> 148...			Oxycodone-D6	4.794	152809		
Hydrocodone	300.2 -> 198...	12/18/2017 9:07 PM					300.2 -> 128...			Hydrocodone-D6	4.876	129926		
Hydromorphone	286.2 -> 184...	12/18/2017 9:07 PM					286.2 -> 157...			Hydromorphone-D6	4.277	45145		
Ketamine	238.1 -> 125...	12/18/2017 9:07 PM					238.1 -> 220...			Ketamine-D4	5.270	264261		
Meprobamate	219.1 -> 158...	12/18/2017 9:07 PM	5.456	1128	0.27		219.1 -> 97.1			Meprobamate-D7	5.599	92654		
Methadone	310.2 -> 265...	12/18/2017 9:07 PM					310.2 -> 105...			Methadone-D9	6.260	879476		
Methamphetamine	150.1 -> 91.1	12/18/2017 9:07 PM					150.1 -> 119...			Methamphetamine-D11	4.869	166565		
Morphine	286.2 -> 201...	12/18/2017 9:07 PM					286.2 -> 165...			Morphine-D6	3.996	1949		
Naloxone	328.2 -> 309...	12/18/2017 9:07 PM					328.2 -> 211...			Naloxone-D5	4.591	97337		
Naltrexol	344.2 -> 326...	12/18/2017 9:07 PM					344.2 -> 308...			Naltrexol-D3	4.810	210128		
Naltrexone	342.2 -> 324...	12/18/2017 9:07 PM					342.2 -> 55.3			Naltrexone-D3	4.750	122729		
Norbuprenorphine	414.3 -> 101...	12/18/2017 9:07 PM	5.927	318	103.76		414.3 -> 57.3			Norbuprenorphine-D3	5.744	24167		
Nordiazepam	271.1 -> 140...	12/18/2017 9:07 PM					271.1 -> 208...			Nordiazepam-D5	6.552	83143		
Norfentanyl	233.2 -> 84.2	12/18/2017 9:07 PM					233.2 -> 55.3			Norfentanyl-D5	5.251	574579		
Norhydrocodone	286.2 -> 199...	12/18/2017 9:07 PM					286.2 -> 171...			Norhydrocodone-D3	4.840	42663		
Noroxycodone	302.1 -> 284...	12/18/2017 9:07 PM					302.1 -> 186...			Noroxycodone-D3	4.775	73964		
O-desmethyl-tramadol	250.2 -> 58.3	12/18/2017 9:07 PM	4.845	1287	0.97		250.2 -> 42.3		415.43	O-desmethyl-tramadol...	4.824	724122		
Oxazepam	287.1 -> 240...	12/18/2017 9:07 PM					287.1 -> 268...			Oxazepam-D5	6.386	101419		
Oxycodone	316.2 -> 298...	12/18/2017 9:07 PM					316.2 -> 241...			Oxycodone-D6	4.794	152809		
Oxymorphone	302.1 -> 284...	12/18/2017 9:07 PM					302.1 -> 227...			Oxymorphone-D3	4.131	29701		
Phentermine	150.1 -> 65.2	12/18/2017 9:07 PM					150.1 -> 133...			Phentermine-D5	5.031	278224		
Promethazine	285.1 -> 86.2	12/18/2017 9:07 PM					285.1 -> 71.3			Promethazine-D3	6.182	15024...		
Quetiapine	384.2 -> 253...	12/18/2017 9:07 PM					384.2 -> 221...			Quetiapine-D8	6.110	224064		
Sertraline	306.1 -> 158...	12/18/2017 9:07 PM					306.1 -> 275...			Sertraline-D3	6.424	327092		

Compound Method		p1 negative control			p1 negative control Results			Qualifier 1 M...		Qualifier 1 ...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.			
Temazepam	301.1 -> 255...	12/18/2017 9:07 PM					301.1 -> 283...			Temazepam-D5	6.527	385455			
Tramadol	264.2 -> 58.3	12/18/2017 9:07 PM	5.349	8214	1.89		264.2 -> 43.3			Tramadol-13C-D3	5.349	994174			
Trazodone	372.2 -> 176...	12/18/2017 9:07 PM					372.2 -> 148...			Trazodone-D6	6.070	5280			
Venlafaxine	278.2 -> 58.3	12/18/2017 9:07 PM					278.2 -> 260...			Venlafaxine-D6	5.734	906555			
Zolpidem	308.2 -> 235...	12/18/2017 9:07 PM	5.691	9065	60.96		308.2 -> 263...		18.63	Zolpidem-D6	5.691	655829			

Compound Method		p1 external control		p1 external control Results			Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.		
6-MAM	328.2 -> 165...	12/18/2017 9:26 PM					328.2 -> 211...			6-MAM-D6	4.792	32336		
7-aminoclonazepam	286.1 -> 121...	12/18/2017 9:26 PM					286.1 -> 222...			7-Aminoclonazepam-D4	5.488	114682		
Acetyl Fentanyl	323.2 -> 105...	12/18/2017 9:26 PM					323.2 -> 188...			Acetyl Fentanyl-D5	5.666	936698		
Acetyl Norfentanyl	219.1 -> 84.2	12/18/2017 9:26 PM					219.1 -> 56.3			Acetyl Norfentanyl-D5	4.787	381709		
a-hydroxylprazolam	325.1 -> 297...	12/18/2017 9:26 PM					325.1 -> 215...			a-hydroxylprazolam-D5	6.379	27716		
alpha-PVP	232.2 -> 91.0	12/18/2017 9:26 PM					232.2 -> 77.1			alpha-PVP-d8	5.433	458352		
Alprazolam	309.1 -> 281...	12/18/2017 9:26 PM					309.1 -> 205...			Alprazolam-D5	6.464	192663		
Amphetamine	136.1 -> 91.1	12/18/2017 9:26 PM					136.1 -> 119...			Amphetamine-D11	4.688	91471		
Bupropion	240.1 -> 184...	12/18/2017 9:26 PM					240.1 -> 131...			Bupropion-D9	5.638	352484		
Carisoprodol	261.2 -> 176...	12/18/2017 9:26 PM					261.2 -> 55.3			Carisoprodol-D7	6.105	327698		
Citalopram	325.2 -> 109...	12/18/2017 9:26 PM					325.2 -> 262...			Citalopram-D6	5.971	670588		
Clonazepam	316.1 -> 269...	12/18/2017 9:26 PM					316.1 -> 213...			Clonazepam-D4	6.320	29503		
Codeine	300.2 -> 215...	12/18/2017 9:26 PM	4.677	39105	510.98		300.2 -> 165...		222.19	Codeine-D6	4.654	23293		
Cyclobenzaprine	276.2 -> 214...	12/18/2017 9:26 PM					276.2 -> 231...			Cyclobenzaprine-D3	6.225	453786		
Dextromethorphan	272.2 -> 171...	12/18/2017 9:26 PM					272.2 -> 147...			Dextromethorphan-D3	5.981	207891		
Dextropropion	258.2 -> 157...	12/18/2017 9:26 PM					258.2 -> 133...			Dextropropion-D3	5.329	210553		
Diazepam	285.1 -> 193...	12/18/2017 9:26 PM					285.1 -> 153...			Diazepam-D5	6.690	176551		
Dihydrocodeine	302.2 -> 198...	12/18/2017 9:26 PM					302.2 -> 128...			Dihydrocodeine-D6	4.614	92675		
Diphenhydramine	256.2 -> 167...	12/18/2017 9:26 PM	5.944	26037...	1254.38		256.2 -> 152...		376.96	Diphenhydramine-D3	5.943	11445...		
Doxylamine	271.2 -> 182...	12/18/2017 9:26 PM					271.2 -> 167...			Doxylamine-D5	5.634	889625		
EDDP	279.2 -> 235...	12/18/2017 9:26 PM					279.2 -> 250...			EDDP-D3	5.979	49319		
Fentanyl	337.2 -> 105...	12/18/2017 9:26 PM					337.2 -> 188...			Fentanyl-D5	5.868	875008		
Fluoxetine	310.1 -> 44.3	12/18/2017 9:26 PM					310.1 -> 148...			Oxycodone-D6	4.794	159542		
Hydrocodone	300.2 -> 198...	12/18/2017 9:26 PM	4.677	23358	23.91		300.2 -> 128...		27.88	Hydrocodone-D6	4.876	126806		
Hydromorphone	286.2 -> 184...	12/18/2017 9:26 PM					286.2 -> 157...			Hydromorphone-D6	4.277	45521		
Ketamine	238.1 -> 125...	12/18/2017 9:26 PM					238.1 -> 220...			Ketamine-D4	5.250	252184		
Meprobamate	219.1 -> 158...	12/18/2017 9:26 PM	5.824	4229	0.69		219.1 -> 97.1		0.39	Meprobamate-D7	5.599	88023		
Methadone	310.2 -> 265...	12/18/2017 9:26 PM					310.2 -> 105...			Methadone-D9	6.260	884028		
Methamphetamine	150.1 -> 91.1	12/18/2017 9:26 PM					150.1 -> 119...			Methamphetamine-D11	4.848	175244		
Morphine	286.2 -> 201...	12/18/2017 9:26 PM	4.019	54485	Infinity		286.2 -> 165...		1061....	Morphine-D6	3.996	2159		
Naloxone	328.2 -> 309...	12/18/2017 9:26 PM					328.2 -> 211...			Naloxone-D5	4.591	96545		
Naltrexol	344.2 -> 326...	12/18/2017 9:26 PM					344.2 -> 308...			Naltrexol-D3	4.810	208336		
Naltrexone	342.2 -> 324...	12/18/2017 9:26 PM					342.2 -> 55.3			Naltrexone-D3	4.750	123445		
Norbuprenorphine	414.3 -> 101...	12/18/2017 9:26 PM					414.3 -> 57.3			Norbuprenorphine-D3	5.744	22755		
Nordiazepam	271.1 -> 140...	12/18/2017 9:26 PM	6.553	1941	5.61		271.1 -> 208...		66.29	Nordiazepam-D5	6.552	87797		
Norfentanyl	233.2 -> 84.2	12/18/2017 9:26 PM					233.2 -> 55.3			Norfentanyl-D5	5.251	563566		
Norhydrocodone	286.2 -> 199...	12/18/2017 9:26 PM					286.2 -> 171...			Norhydrocodone-D3	4.840	42850		
Noroxycodone	302.1 -> 284...	12/18/2017 9:26 PM					302.1 -> 186...			Noroxycodone-D3	4.775	75870		
O-desmethyl-tramadol	250.2 -> 58.3	12/18/2017 9:26 PM	4.825	1396	1.32		250.2 -> 42.3		11.18	O-desmethyl-tramadol-...	4.824	722621		
Oxazepam	287.1 -> 240...	12/18/2017 9:26 PM					287.1 -> 268...			Oxazepam-D5	6.386	112228		
Oxycodone	316.2 -> 298...	12/18/2017 9:26 PM					316.2 -> 241...			Oxycodone-D6	4.794	159542		
Oxymorphone	302.1 -> 284...	12/18/2017 9:26 PM					302.1 -> 227...			Oxymorphone-D3	4.131	29630		
Phentermine	150.1 -> 65.2	12/18/2017 9:26 PM					150.1 -> 133...			Phentermine-D5	5.031	290318		
Promethazine	285.1 -> 86.2	12/18/2017 9:26 PM					285.1 -> 71.3			Promethazine-D3	6.182	15824...		
Quetiapine	384.2 -> 253...	12/18/2017 9:26 PM					384.2 -> 221...			Quetiapine-D8	6.110	227038		
Sertraline	306.1 -> 158...	12/18/2017 9:26 PM					306.1 -> 275...			Sertraline-D3	6.424	350373		

Compound Method		p1 external control		p1 external control Results			Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.		
Temazepam	301.1 -> 255...	12/18/2017 9:26 PM				<input type="checkbox"/>	301.1 -> 283...	<input type="checkbox"/>		Temazepam-D5	6.527	380515		
Tramadol	264.2 -> 58.3	12/18/2017 9:26 PM				<input type="checkbox"/>	264.2 -> 43.3	<input type="checkbox"/>		Tramadol-13C-D3	5.349	959106		
Trazodone	372.2 -> 176...	12/18/2017 9:26 PM	6.071	138	Infinity	<input checked="" type="checkbox"/>	372.2 -> 148...	<input type="checkbox"/>		Trazodone-D6	6.091	6259		
Venlafaxine	278.2 -> 58.3	12/18/2017 9:26 PM				<input type="checkbox"/>	278.2 -> 260...	<input type="checkbox"/>		Venlafaxine-D6	5.714	897756		
Zolpidem	308.2 -> 235...	12/18/2017 9:26 PM	5.383	651	0.78	<input type="checkbox"/>	308.2 -> 263...	<input type="checkbox"/>	0.43	Zolpidem-D6	5.691	660689		

Compound Method		p2 cal 1-2b			p2 cal 1-2b Results			Qualifier 1 M...		Qualifier 1 R...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	MI	S/N	Name	RT	Resp.	
7-aminoflunitrazepam	284.1 -> 135...	12/18/2017 2:38 PM	5.680	34841	768.11		284.1 -> 93.2		152.50		152.50	7-aminoflunitrazepam-D7	5.679	168073	
alpha-hydroxymidazolam	342.1 -> 324...	12/18/2017 2:38 PM	6.387	58972	109.14		342.1 -> 203...		10412...		10412...	alpha-hydroxymidazolam-...	6.366	312351	
Amitriptyline	278.2 -> 91.2	12/18/2017 2:38 PM	6.295	193267	60.36		278.2 -> 105...		Infinity		Infinity	Amitriptyline-D3	6.314	405653	
Amoxapine	314.1 -> 271...	12/18/2017 2:38 PM	6.247	55669	6297.36		314.1 -> 193...		130.30		130.30	Amitriptyline-D3	6.314	405653	
Benzoyllecgonine	290.1 -> 168...	12/18/2017 2:38 PM	5.312	11492	44.85		290.1 -> 105...		24.74		24.74	Benzoyllecgonine-D8	5.269	4159	
Carbamazepine	237.1 -> 193...	12/18/2017 2:38 PM	6.157	25406	Infinity		237.1 -> 194...		93.53		93.53	Carbamazepine-13C6	6.136	10717...	
Chlordiazepoxide	300.1 -> 227...	12/18/2017 2:38 PM	6.473	28517	31.15		300.1 -> 282...		10.18		10.18	Chlordiazepoxide-D5	6.453	267909	
Clomipramine	315.2 -> 86.2	12/18/2017 2:38 PM	6.492	261676	213.86		315.2 -> 58.3		137.57		137.57	Clomipramine-D3	6.471	13740...	
Cocaine	304.2 -> 182...	12/18/2017 2:38 PM	5.493	115888	Infinity		304.2 -> 105...		Infinity		Infinity	Cocaine-D3	5.493	552344	
Desipramine	267.2 -> 72.3	12/18/2017 2:38 PM	6.254	225027	Infinity		267.2 -> 44.3		Infinity		Infinity	Desipramine-D3	6.254	11342...	
Doxepin	280.2 -> 107...	12/18/2017 2:38 PM	6.050	97817	311.65		280.2 -> 77.2		Infinity		Infinity	Doxepin-D3	6.049	493860	
Estazolam	295.1 -> 267...	12/18/2017 2:38 PM	6.393	49226	326.97		295.1 -> 205...		103.29		103.29	Estazolam-D5	6.392	244597	
Flunitrazepam	314.1 -> 268...	12/18/2017 2:38 PM	6.431	45658	580.46		314.1 -> 239...		2168.85		2168.85	Flunitrazepam-D7	6.430	9304	
Flurazepam	388.2 -> 315...	12/18/2017 2:38 PM	5.999	102289	858.63		388.2 -> 317...		36.78		36.78	Zopiclone-D4	5.653	102965	
Imipramine	281.2 -> 86.2	12/18/2017 2:38 PM	6.274	303454	121.51		281.2 -> 58.3		Infinity		Infinity	Imipramine-D3	6.273	911059	
Levamisole	205.1 -> 91.2	12/18/2017 2:38 PM	4.838	41733	Infinity		205.1 -> 178...		Infinity		Infinity	Cocaine-D3	5.493	552344	
Maprotiline	278.2 -> 91.2	12/18/2017 2:38 PM	6.295	190848	60.60		278.2 -> 117...		Infinity		Infinity	Meperidine-D4	5.522	253196	
MDA	180.1 -> 163...	12/18/2017 2:38 PM	4.882	36688	96.22		180.1 -> 105...		Infinity		Infinity	MDA-D5	4.882	189545	
MDEA	208.1 -> 163...	12/18/2017 2:38 PM	5.162	93663	Infinity		208.1 -> 105...		320.82		320.82	MDEA-D6	5.141	451021	
MDMA	194.1 -> 163...	12/18/2017 2:38 PM	5.002	72945	Infinity		194.1 -> 105...		1197.97		1197.97	MDMA-D6	4.981	43999	
Meperidine	248.2 -> 220...	12/18/2017 2:38 PM	5.522	51009	Infinity		248.2 -> 174...		117.54		117.54	Meperidine-D4	5.522	253196	
Methylphenidate	234.2 -> 84.2	12/18/2017 2:38 PM	5.443	259082	Infinity		234.2 -> 56.3		Infinity		Infinity	Meperidine-D4	5.522	253196	
Metoprolol	268.2 -> 116...	12/18/2017 2:38 PM	5.377	24892	78.94		268.2 -> 56.3		191.51		191.51	Meperidine-D4	5.522	253196	
Midazolam	326.1 -> 223...	12/18/2017 2:38 PM	6.287	17328	31.45		326.1 -> 249...		31.12		31.12	Midazolam-D4	6.266	276078	
Mirtazapine	266.2 -> 195...	12/18/2017 2:38 PM	5.664	37456	Infinity		266.2 -> 72.3		Infinity		Infinity	Midazolam-D4	6.266	276078	
Mitragynine	399.2 -> 174...	12/18/2017 2:38 PM	6.018	42499	8233.59		399.2 -> 238...		62.91		62.91	Carbamazepine-13C6	6.136	10717...	
Normeperidine	234.1 -> 42.3	12/18/2017 2:38 PM	5.546	62669	Infinity		234.1 -> 160...		Infinity		Infinity	Normeperidine-D4	5.544	210549	
Norpropoxyphene	326.2 -> 44.3	12/18/2017 2:38 PM	6.164	31348	Infinity		326.2 -> 252...		62.96		62.96	Norpropoxyphene-D5	6.143	133108	
Nortriptyline	264.2 -> 91.2	12/18/2017 2:38 PM	6.215	323176	56.66		264.2 -> 233...		5231.97		5231.97	Nortriptyline-D3	6.296	364740	
Ondansetron	294.2 -> 184...	12/18/2017 2:38 PM	5.658	68668	941.54		294.2 -> 212...		12576...		12576...	Pentazocine-13C3	5.597	427050	
Pentazocine	286.2 -> 218...	12/18/2017 2:38 PM	5.597	97375	66.00		286.2 -> 41.3		394.51		394.51	Pentazocine-13C3	5.597	427050	
Phenazepam	349.0 -> 206...	12/18/2017 2:38 PM	6.508	50605	262.63		349.0 -> 183...		288.10		288.10	Phenazepam-D4	6.507	17459	
Phencyclidine	244.2 -> 86.2	12/18/2017 2:38 PM	5.830	171496	Infinity		244.2 -> 91.1		55.02		55.02	Phencyclidine-D5	5.809	846584	
Phenylethanolamine	253.1 -> 104...	12/18/2017 2:38 PM	6.053	2626	468.00		253.1 -> 182...		9.52		9.52	Phenylethanolamine-D10	6.033	12013	
Prazepam	325.1 -> 271...	12/18/2017 2:38 PM	6.937	175052	248.84		325.1 -> 140...		93.18		93.18	Prazepam-D5	6.935	780057	
Primidone	219.1 -> 91.2	12/18/2017 2:38 PM	5.405	8205	16.30		219.1 -> 162...		20.25		20.25	Prazepam-D5	6.935	780057	
Propoxyphene	340.2 -> 58.3	12/18/2017 2:38 PM	6.163	187135	128.72		340.2 -> 266...		249.73		249.73	Propoxyphene-D11	6.141	203307	
Protriptyline	264.2 -> 155...	12/18/2017 2:38 PM	6.215	462838	1673.38		264.2 -> 161...		Infinity		Infinity	Nortriptyline-D3	6.296	364740	
Pseudoephedrine	166.1 -> 148...	12/18/2017 2:38 PM	4.540	768175	346.76		166.1 -> 133...		122.09		122.09	Pseudoephedrine-D3	4.539	377701	
Tapentadol	222.2 -> 107...	12/18/2017 2:38 PM	5.384	137937	Infinity		222.2 -> 121...		48.79		48.79	Tapentadol-D3	5.384	693026	
Trimipramine	295.2 -> 100...	12/18/2017 2:38 PM	6.352	334009	41474...		295.2 -> 58.3		554.06		554.06	Trimipramine-D3	6.352	15901...	
Verapamil	455.3 -> 165...	12/18/2017 2:38 PM	6.099	134143	1585.15		455.3 -> 150...		151.45		151.45	Trimipramine-D3	6.352	15901...	
Zaleplon	306.1 -> 236...	12/18/2017 2:38 PM	6.228	36899	154.54		306.1 -> 264...		83.85		83.85	Zaleplon-D4	6.206	141830	
Zopiclone	389.1 -> 244...	12/18/2017 2:38 PM	5.653	9972	Infinity		389.1 -> 216...		Infinity		Infinity	Zopiclone-D4	5.653	102965	

Compound Method		p2 negative control			p2 negative control Results			Qualifier 1 M...		Qualifi...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	12/18/2017 9:16 PM					284.1 -> 93.2			7-aminoflunitrazepam-D7	5.679	173085			
alpha-hydroxymidazolam	342.1 -> 324...	12/18/2017 9:16 PM					342.1 -> 203...			alpha-hydroxymidazolam-...	6.386	294227			
Amisulpride	278.2 -> 91.2	12/18/2017 9:16 PM					278.2 -> 105...			Amisulpride-D3	6.294	371843			
Amoxapine	314.1 -> 271...	12/18/2017 9:16 PM					314.1 -> 193...			Amisulpride-D3	6.294	371843			
Benzoyllecgonine	290.1 -> 168...	12/18/2017 9:16 PM					290.1 -> 105...			Benzoyllecgonine-D8	5.289	5113			
Carbamazepine	237.1 -> 193...	12/18/2017 9:16 PM					237.1 -> 194...			Carbamazepine-13C6	6.136	10417...			
Chlordiazepoxide	300.1 -> 227...	12/18/2017 9:16 PM					300.1 -> 282...			Chlordiazepoxide-D5	6.473	257624			
Clomipramine	315.2 -> 86.2	12/18/2017 9:16 PM					315.2 -> 58.3			Clomipramine-D3	6.471	13145...			
Cocaine	304.2 -> 182...	12/18/2017 9:16 PM					304.2 -> 105...			Cocaine-D3	5.513	522158			
Desipramine	267.2 -> 72.3	12/18/2017 9:16 PM					267.2 -> 44.3			Desipramine-D3	6.254	10811...			
Doxepin	280.2 -> 107...	12/18/2017 9:16 PM					280.2 -> 77.2			Doxepin-D3	6.049	487360			
Estazolam	295.1 -> 267...	12/18/2017 9:16 PM					295.1 -> 205...			Estazolam-D5	6.392	243116			
Flunitrazepam	314.1 -> 268...	12/18/2017 9:16 PM					314.1 -> 239...			Flunitrazepam-D7	6.430	7977			
Flurazepam	388.2 -> 315...	12/18/2017 9:16 PM					388.2 -> 317...			Zopiclone-D4	5.653	122293			
Imipramine	281.2 -> 86.2	12/18/2017 9:16 PM					281.2 -> 58.3			Imipramine-D3	6.273	856035			
Levamisole	205.1 -> 91.2	12/18/2017 9:16 PM					205.1 -> 178...			Cocaine-D3	5.513	522158			
Maprotiline	278.2 -> 91.2	12/18/2017 9:16 PM					278.2 -> 117...			Meperidine-D4	5.522	245325			
MDA	180.1 -> 163...	12/18/2017 9:16 PM					180.1 -> 105...			MDA-D5	4.882	184304			
MDEA	208.1 -> 163...	12/18/2017 9:16 PM					208.1 -> 105...			MDEA-D6	5.161	433801			
MDMA	194.1 -> 163...	12/18/2017 9:16 PM					194.1 -> 105...			MDMA-D6	5.002	41904			
Meperidine	248.2 -> 220...	12/18/2017 9:16 PM					248.2 -> 174...			Meperidine-D4	5.522	245325			
Methylphenidate	234.2 -> 84.2	12/18/2017 9:16 PM					234.2 -> 56.3			Meperidine-D4	5.522	245325			
Metoprolol	268.2 -> 116...	12/18/2017 9:16 PM					268.2 -> 56.3			Meperidine-D4	5.522	245325			
Midazolam	326.1 -> 223...	12/18/2017 9:16 PM					326.1 -> 249...			Midazolam-D4	6.306	289897			
Mirtazapine	266.2 -> 195...	12/18/2017 9:16 PM					266.2 -> 72.3			Midazolam-D4	6.306	289897			
Mitragynine	399.2 -> 174...	12/18/2017 9:16 PM					399.2 -> 238...			Carbamazepine-13C6	6.136	10417...			
Normeperidine	234.1 -> 42.3	12/18/2017 9:16 PM					234.1 -> 160...			Normeperidine-D4	5.544	206543			
Norpropoxyphene	326.2 -> 44.3	12/18/2017 9:16 PM					326.2 -> 252...			Norpropoxyphene-D5	6.143	116328			
Nortriptyline	264.2 -> 91.2	12/18/2017 9:16 PM					264.2 -> 233...			Nortriptyline-D3	6.296	350916			
Ondansetron	294.2 -> 184...	12/18/2017 9:16 PM					294.2 -> 212...			Pentazocine-13C3	5.597	394661			
Pentazocine	286.2 -> 218...	12/18/2017 9:16 PM					286.2 -> 41.3			Pentazocine-13C3	5.597	394661			
Phenazepam	349.0 -> 206...	12/18/2017 9:16 PM					349.0 -> 183...			Phenazepam-D4	6.507	18020			
Phencyclidine	244.2 -> 86.2	12/18/2017 9:16 PM					244.2 -> 91.1			Phencyclidine-D5	5.809	828207			
Phenylethylamine	253.1 -> 104...	12/18/2017 9:16 PM					253.1 -> 182...			Phenylethylamine-D10	6.033	10723			
Praxopram	325.1 -> 271...	12/18/2017 9:16 PM					325.1 -> 140...			Praxopram-D5	6.935	754742			
Primidone	219.1 -> 91.2	12/18/2017 9:16 PM					219.1 -> 162...			Praxopram-D5	6.935	754742			
Propoxyphene	340.2 -> 58.3	12/18/2017 9:16 PM					340.2 -> 266...			Propoxyphene-D11	6.141	198534			
Protriptyline	264.2 -> 155...	12/18/2017 9:16 PM					264.2 -> 161...			Nortriptyline-D3	6.296	350916			
Pseudoephedrine	166.1 -> 148...	12/18/2017 9:16 PM					166.1 -> 133...			Pseudoephedrine-D3	4.539	387262			
Tapentadol	222.2 -> 107...	12/18/2017 9:16 PM					222.2 -> 121...			Tapentadol-D3	5.384	688367			
Trimipramine	295.2 -> 100...	12/18/2017 9:16 PM					295.2 -> 58.3			Trimipramine-D3	6.331	15583...			
Verapamil	455.3 -> 165...	12/18/2017 9:16 PM					455.3 -> 150...			Trimipramine-D3	6.331	15583...			
Zaleplon	306.1 -> 236...	12/18/2017 9:16 PM					306.1 -> 264...			Zaleplon-D4	6.227	158553			
Zopiclone	389.1 -> 244...	12/18/2017 9:16 PM					389.1 -> 216...			Zopiclone-D4	5.653	122293			

Compound Method		p2 external control			p2 external control Results			Qualifier 1 M...			Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	SIN	MI	SIN	Name	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	12/18/2017 9:36 PM					284.1 -> 93.2					7-aminoflunitrazepam-D7	5.679	165628		
alpha-hydroxymidazolam	342.1 -> 324...	12/18/2017 9:36 PM					342.1 -> 203...					alpha-hydroxymidazolam...	6.386	286424		
Amisriptyline	278.2 -> 91.2	12/18/2017 9:36 PM	6.295	13690...	Infinity		278.2 -> 105...				2655...	Amisriptyline-D3	6.294	396614		
Amoxapine	314.1 -> 271...	12/18/2017 9:36 PM					314.1 -> 193...					Amisriptyline-D3	6.294	396614		
Benzylecgonine	290.1 -> 168...	12/18/2017 9:36 PM					290.1 -> 105...					Benzylecgonine-D8	5.289	5121		
Carbamazepine	237.1 -> 193...	12/18/2017 9:36 PM					237.1 -> 194...					Carbamazepine-13C6	6.136	10694...		
Chlordiazepoxide	300.1 -> 227...	12/18/2017 9:36 PM					300.1 -> 282...					Chlordiazepoxide-D5	6.473	247309		
Clomipramine	315.2 -> 86.2	12/18/2017 9:36 PM					315.2 -> 58.3					Clomipramine-D3	6.471	13149...		
Cocaine	304.2 -> 182...	12/18/2017 9:36 PM					304.2 -> 105...					Cocaine-D3	5.493	517652		
Desipramine	267.2 -> 72.3	12/18/2017 9:36 PM					267.2 -> 44.3					Desipramine-D3	6.254	11354...		
Doxepin	280.2 -> 107...	12/18/2017 9:36 PM					280.2 -> 77.2					Doxepin-D3	6.049	492422		
Estazolam	295.1 -> 267...	12/18/2017 9:36 PM					295.1 -> 205...					Estazolam-D5	6.392	242784		
Flunitrazepam	314.1 -> 268...	12/18/2017 9:36 PM					314.1 -> 239...					Flunitrazepam-D7	6.430	9162		
Flurazepam	388.2 -> 315...	12/18/2017 9:36 PM					388.2 -> 317...					Zopiclone-D4	5.653	93327		
Imipramine	281.2 -> 86.2	12/18/2017 9:36 PM					281.2 -> 58.3					Imipramine-D3	6.273	884383		
Levamisole	205.1 -> 91.2	12/18/2017 9:36 PM					205.1 -> 178...					Cocaine-D3	5.493	517652		
Maprotiline	278.2 -> 91.2	12/18/2017 9:36 PM	6.295	13460...	Infinity		278.2 -> 117...				726.92	Meperidine-D4	5.522	239561		
MDA	180.1 -> 163...	12/18/2017 9:36 PM					180.1 -> 105...					MDA-D5	4.882	170893		
MDEA	208.1 -> 163...	12/18/2017 9:36 PM					208.1 -> 105...					MDEA-D6	5.161	428540		
MDMA	194.1 -> 163...	12/18/2017 9:36 PM					194.1 -> 105...					MDMA-D6	5.002	41715		
Meperidine	248.2 -> 220...	12/18/2017 9:36 PM					248.2 -> 174...					Meperidine-D4	5.522	239561		
Methylphenidate	234.2 -> 84.2	12/18/2017 9:36 PM					234.2 -> 56.3					Meperidine-D4	5.522	239561		
Metoprolol	268.2 -> 116...	12/18/2017 9:36 PM					268.2 -> 56.3					Meperidine-D4	5.522	239561		
Midazolam	326.1 -> 223...	12/18/2017 9:36 PM					326.1 -> 249...					Midazolam-D4	6.306	284507		
Mirtazapine	266.2 -> 195...	12/18/2017 9:36 PM	5.664	266133	91.10		266.2 -> 72.3				72.13	Midazolam-D4	6.306	284507		
Mitragynine	399.2 -> 174...	12/18/2017 9:36 PM					399.2 -> 238...					Carbamazepine-13C6	6.136	10694...		
Normeperidine	234.1 -> 42.3	12/18/2017 9:36 PM					234.1 -> 160...					Normeperidine-D4	5.524	206837		
Norpropoxyphene	326.2 -> 44.3	12/18/2017 9:36 PM					326.2 -> 252...					Norpropoxyphene-D5	6.143	115570		
Nortriptyline	264.2 -> 91.2	12/18/2017 9:36 PM					264.2 -> 233...					Nortriptyline-D3	6.296	359258		
Ondansetron	294.2 -> 184...	12/18/2017 9:36 PM					294.2 -> 212...					Pentazocine-13C3	5.597	399053		
Pentazocine	286.2 -> 218...	12/18/2017 9:36 PM					286.2 -> 41.3					Pentazocine-13C3	5.597	399053		
Phenazepam	349.0 -> 206...	12/18/2017 9:36 PM					349.0 -> 183...					Phenazepam-D4	6.507	19050		
Phencyclidine	244.2 -> 86.2	12/18/2017 9:36 PM					244.2 -> 91.1					Phencyclidine-D5	5.809	841988		
Phenylethylamine	253.1 -> 104...	12/18/2017 9:36 PM					253.1 -> 182...					Phenylethylamine-D10	6.033	10276		
Praxopram	325.1 -> 271...	12/18/2017 9:36 PM					325.1 -> 140...					Praxopram-D5	6.935	771303		
Primidone	219.1 -> 91.2	12/18/2017 9:36 PM					219.1 -> 162...					Praxopram-D5	6.935	771303		
Propoxyphene	340.2 -> 58.3	12/18/2017 9:36 PM					340.2 -> 266...					Propoxyphene-D11	6.141	214771		
Protriptyline	264.2 -> 155...	12/18/2017 9:36 PM					264.2 -> 161...					Nortriptyline-D3	6.296	359258		
Pseudoephedrine	166.1 -> 148...	12/18/2017 9:36 PM					166.1 -> 133...					Pseudoephedrine-D3	4.539	389174		
Tapentadol	222.2 -> 107...	12/18/2017 9:36 PM					222.2 -> 121...					Tapentadol-D3	5.384	658318		
Trimipramine	295.2 -> 100...	12/18/2017 9:36 PM					295.2 -> 58.3					Trimipramine-D3	6.331	15988...		
Verapamil	455.3 -> 165...	12/18/2017 9:36 PM					455.3 -> 150...					Trimipramine-D3	6.331	15988...		
Zaleplon	306.1 -> 236...	12/18/2017 9:36 PM					306.1 -> 264...					Zaleplon-D4	6.227	161666		
Zopiclone	389.1 -> 244...	12/18/2017 9:36 PM					389.1 -> 216...					Zopiclone-D4	5.653	93327		

OK
not able
to differentiate
from ~~amphetamine~~
Amphetamine

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

Extraction Date: 12-18-17

Analyst: Anne Nord

Plate lot#: 0515037

Plate Expiration: 9/28/2018

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

Mobile phase B: 0.1% Formic acid in MeOH
Hexane

Blank Blood Lot: 17J20718

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

LCMS-QQQ ID: 62340

Pre-Analytic:

1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
3. Create worklist:

Analytic:

1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
2. Pipette **1000 µL blood (calibrated pipette) Pipette ID: 2609543** in wells of analytical (standards) plate.
 - Blank blood for locations containing standards/QCs and internal standards
 - Sample blood for locations containing only internal standards
3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
4. Pipette **500 µL 0.1% formic acid** in wells of analytical plate.
5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
6. Transfer **800 µL of blood+base** mixture to corresponding wells of SLE+ plate.
7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
8. Wait 5 minutes.
9. Add **2.25 mL MTBE** (add in 3 increments of 750uL).
10. Wait 5 minutes.
11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
12. Add **2.25 mL hexane** (add in 3 increments of 750uL).
13. Wait 5 minutes.
14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

1. Create batch and process data.
Worklist path: 121817 blood screen Am 25-26 Batch Name: 121817 cann screen
2. 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?
3. Did all QCs pass for each analyte? Y/N
4. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: _



ISP FORENSICS - Cd'A

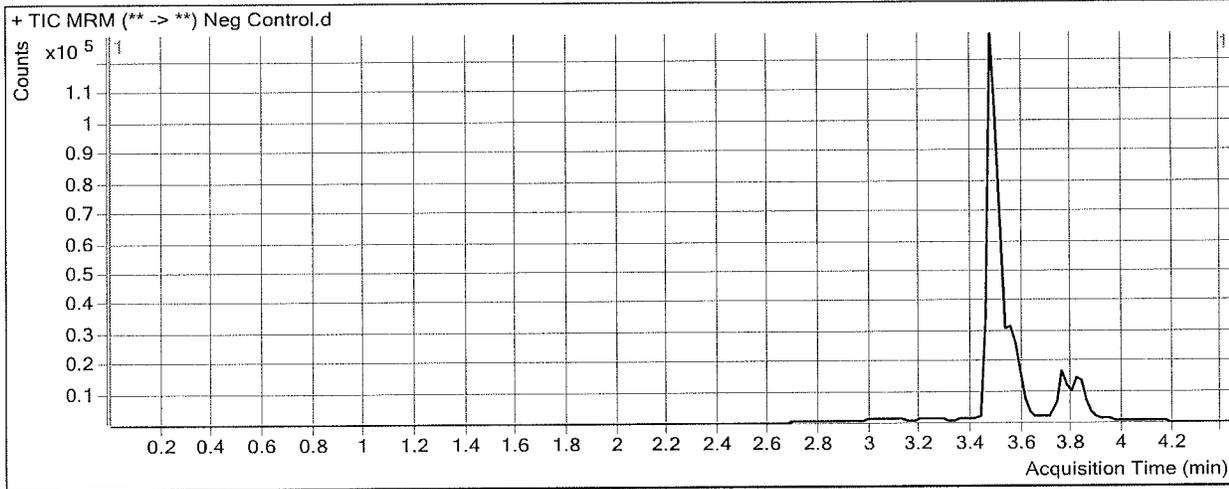
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM **Analyst Name** ISP Tox
Report Time 12/21/2017 3:34 PM **Reporter Name** ISP Tox
Last Calib Update 12/19/2017 9:00 AM **Batch State** Processed

Analysis Info

Acq Time 2017-12-18 11:15 **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 17J20718

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.847	6950	89403	0.0777	3.6642 <i>LS A</i>

ISP FORENSICS - Cd'A

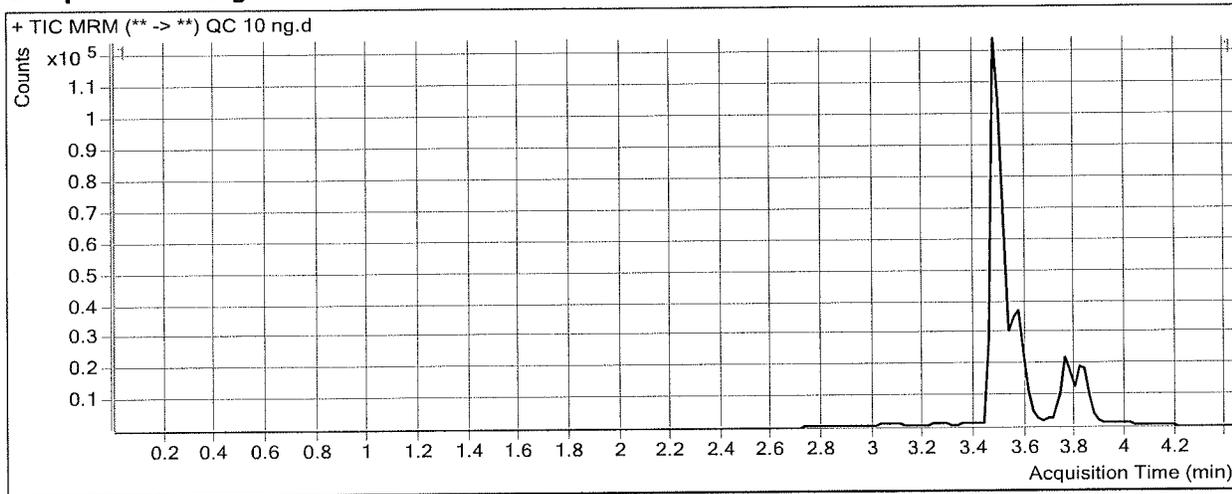
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM **Analyst Name** ISP Tox
Report Time 12/21/2017 3:34 PM **Reporter Name** ISP Tox
Last Calib Update 12/19/2017 9:00 AM **Batch State** Processed

Analysis Info

Acq Time 2017-12-18 11:34 **Data File** QC 10 ng.d
Sample Type QC **Sample Name** QC 10 ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

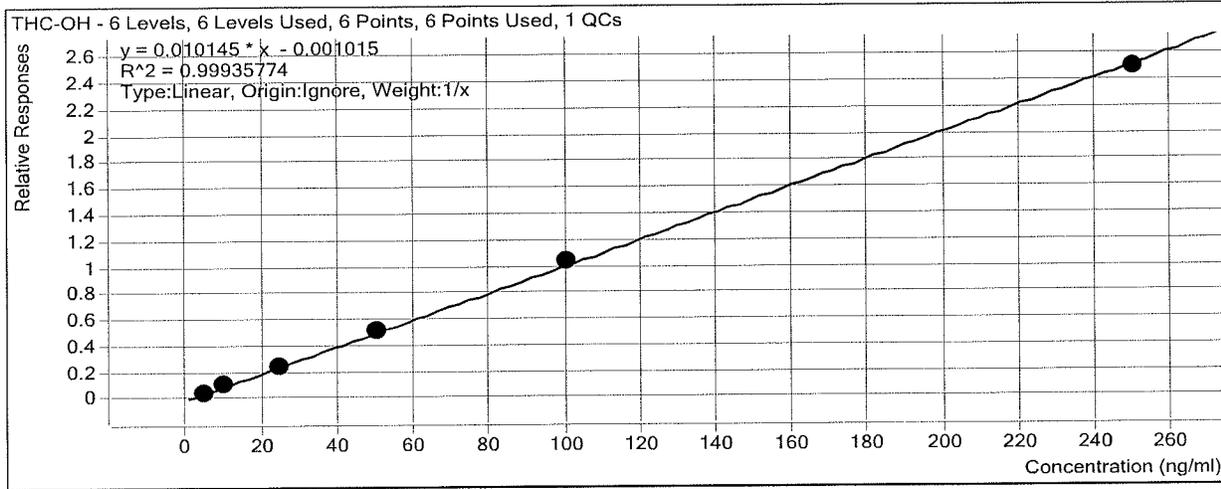
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	38370	380814	0.1008	10.0316
THC-COOH	3.566	19223	91256	0.2106	10.0855
THC	3.820	2823	24974	0.1130	10.5693

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin

Last Calib Update 12/19/2017 9:00 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.9	97.4
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.1	101.4
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.0	100.3
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.4	97.6
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	50.7	101.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	103.7	103.7
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	246.2	98.5

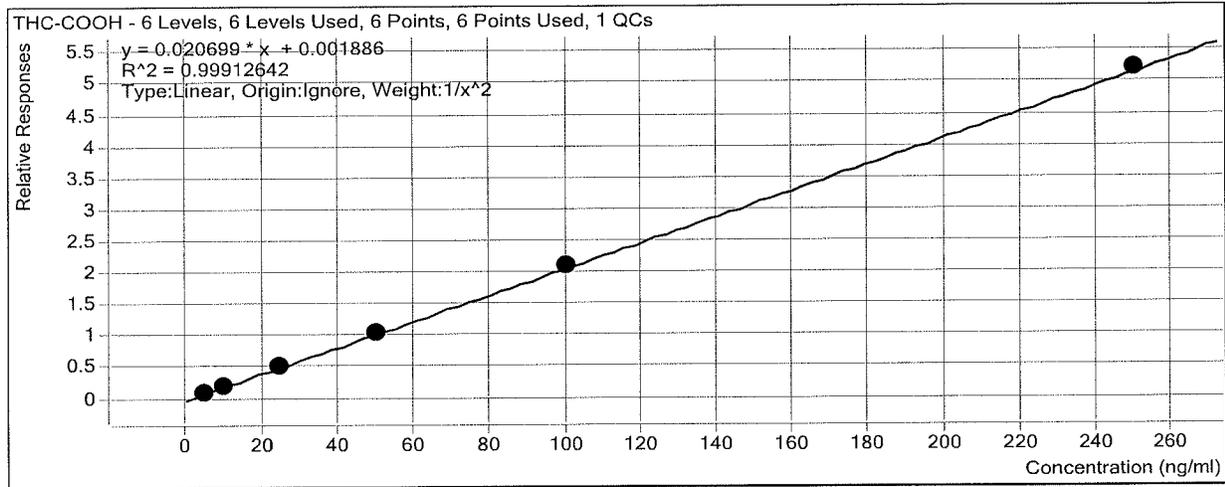
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin

Last Calib Update 12/19/2017 9:00 AM

Analyst Name ISP TOX

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



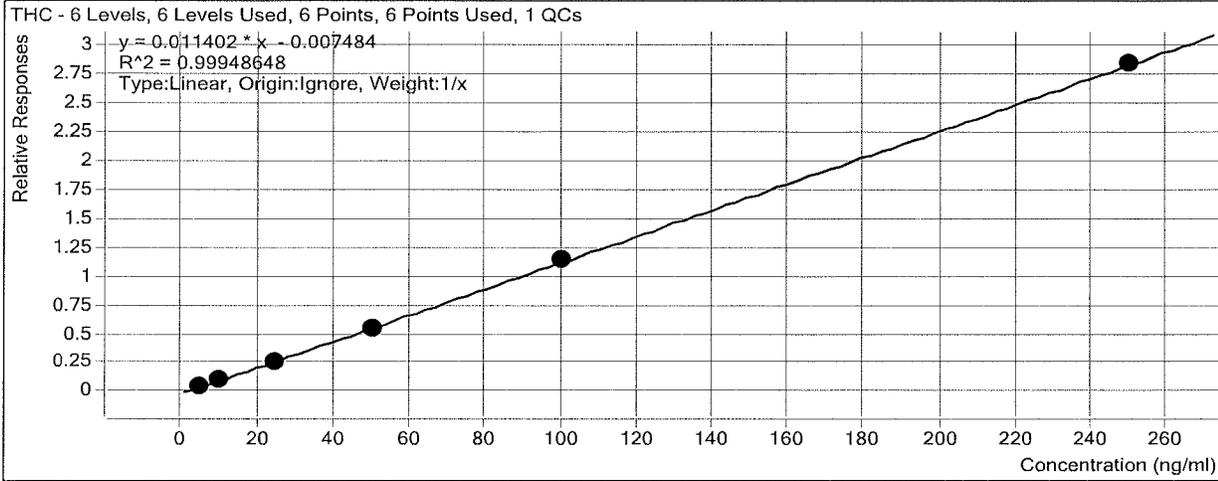
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.1	102.0
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.6	96.4
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.1	100.9
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.4	97.8
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	50.3	100.6
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	102.5	102.5
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	251.7	100.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin

Last Calib Update 12/19/2017 9:00 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.5	109.6
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.3	93.3
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.6	105.7
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.2	96.7
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	49.2	98.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	102.1	102.1
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	249.7	99.9

ISP FORENSICS - Cd'A

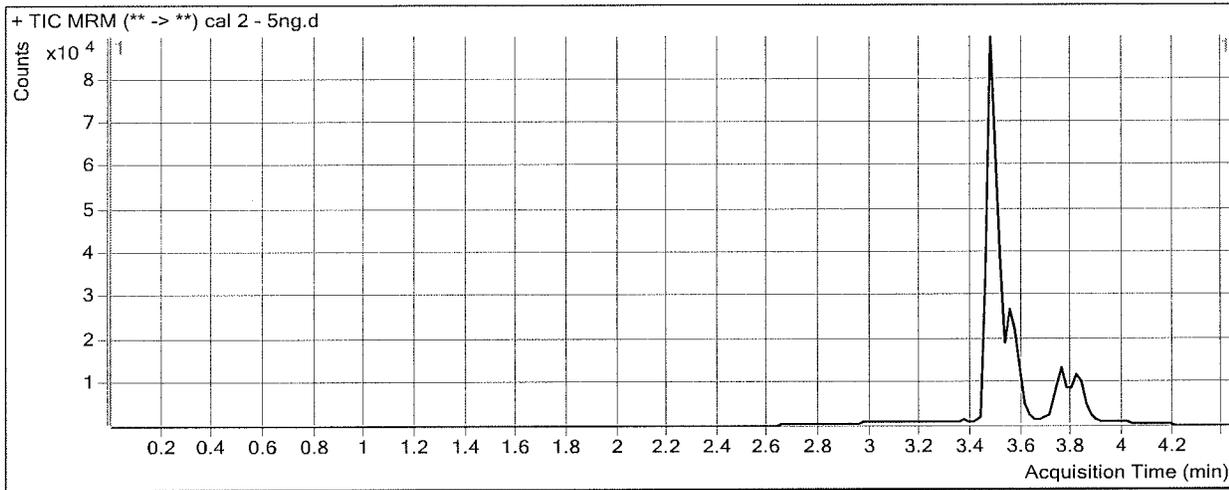
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM **Analyst Name** ISP Tox
Report Time 12/21/2017 3:34 PM **Reporter Name** ISP Tox
Last Calib Update 12/19/2017 9:00 AM **Batch State** Processed

Analysis Info

Acq Time 2017-12-18 10:42 **Data File** cal 2 - 5ng.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-B1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	13174	272296	0.0484	4.8689
THC-COOH	3.566	7410	68933	0.1075	5.1019
THC	3.820	904	16422	0.0550	5.4824

ISP FORENSICS - Cd'A

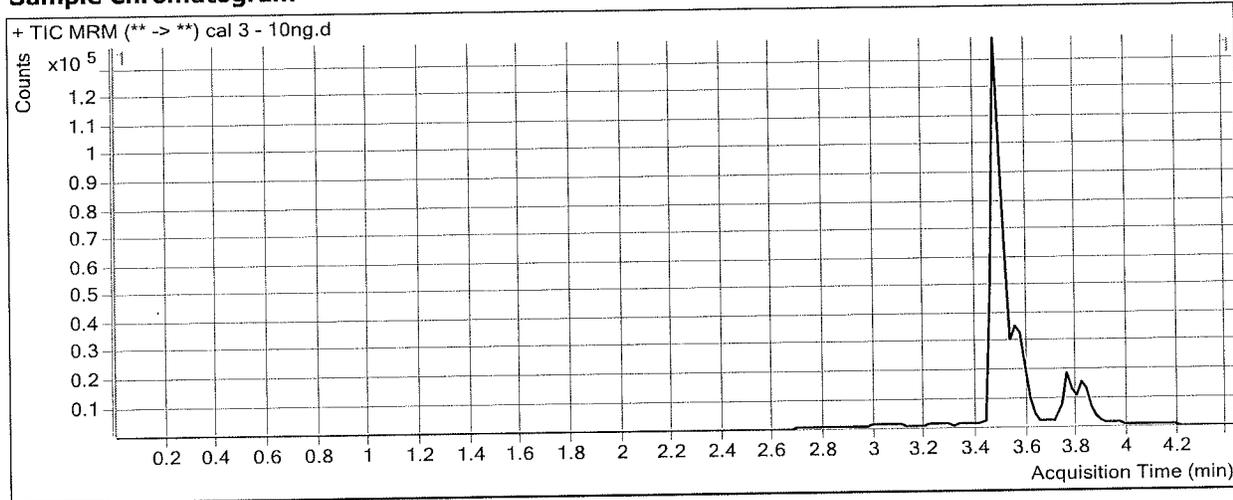
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM **Analyst Name** ISP Tox
Report Time 12/21/2017 3:34 PM **Reporter Name** ISP Tox
Last Calib Update 12/19/2017 9:00 AM **Batch State** Processed

Analysis Info

Acq Time 2017-12-18 10:48 **Data File** cal 3 - 10ng.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	41577	408112	0.1019	10.1418
THC-COOH	3.566	17631	87507	0.2015	9.6426
THC	3.820	1880	19015	0.0989	9.3271

ISP FORENSICS - Cd'A

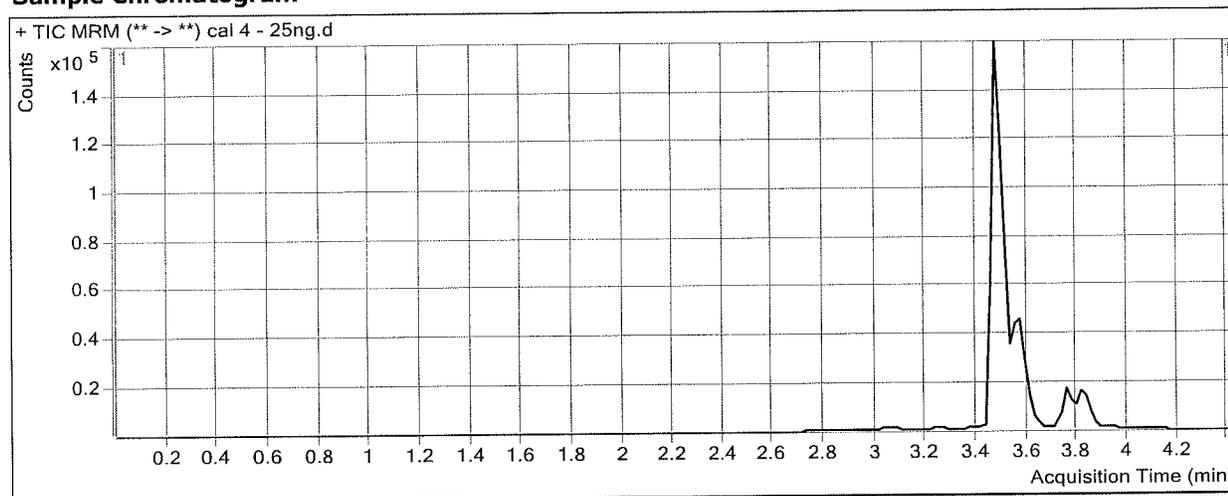
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM **Analyst Name** ISP Tox
Report Time 12/21/2017 3:34 PM **Reporter Name** ISP Tox
Last Calib Update 12/19/2017 9:00 AM **Batch State** Processed

Analysis Info

Acq Time 2017-12-18 10:55 **Data File** cal 4 - 25ng.d
Sample Type Calibration **Sample Name** cal 4 - 25ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-D1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	104574	424090	0.2466	24.4052
THC-COOH	3.566	44890	88411	0.5077	24.4382
THC	3.820	5164	19259	0.2681	24.1709

ISP FORENSICS - Cd'A

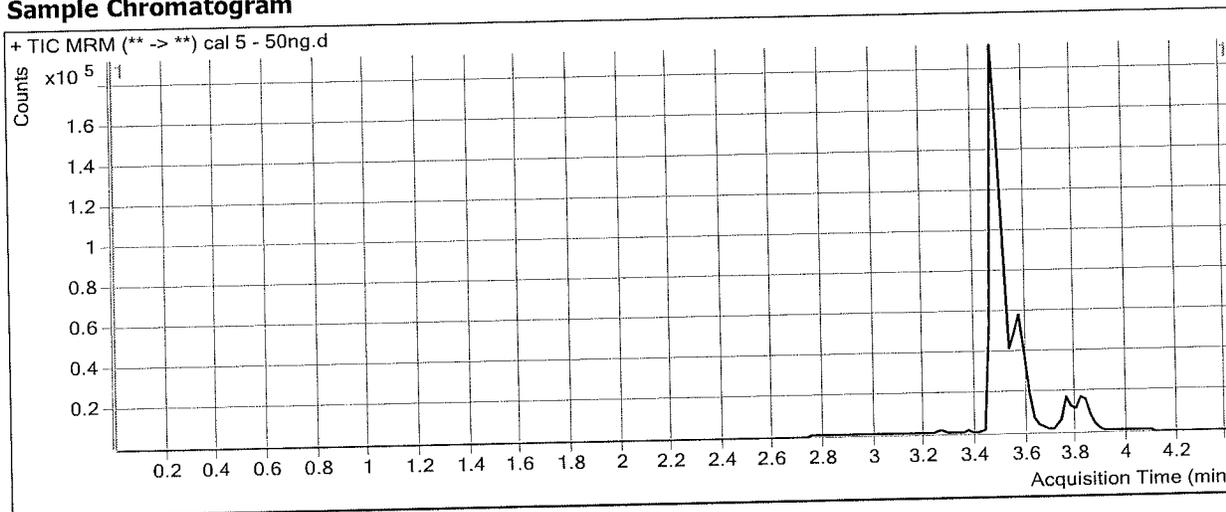
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM Analyst Name ISP Tox
Report Time 12/21/2017 3:34 PM Reporter Name ISP Tox
Last Calib Update 12/19/2017 9:00 AM Batch State Processed

Analysis Info

Acq Time 2017-12-18 11:01 Data File cal 5 - 50ng.d
Sample Type Calibration Sample Name cal 5 - 50ng
Dilution 1 Acq Method Screen THC 8-2017.m
Position P1-E1 Sample Info
Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	207780	404559	0.5136	50.7237
THC-COOH	3.566	79620	76329	1.0431	50.3030
THC	3.820	10476	18926	0.5536	49.2041

ISP FORENSICS - Cd'A

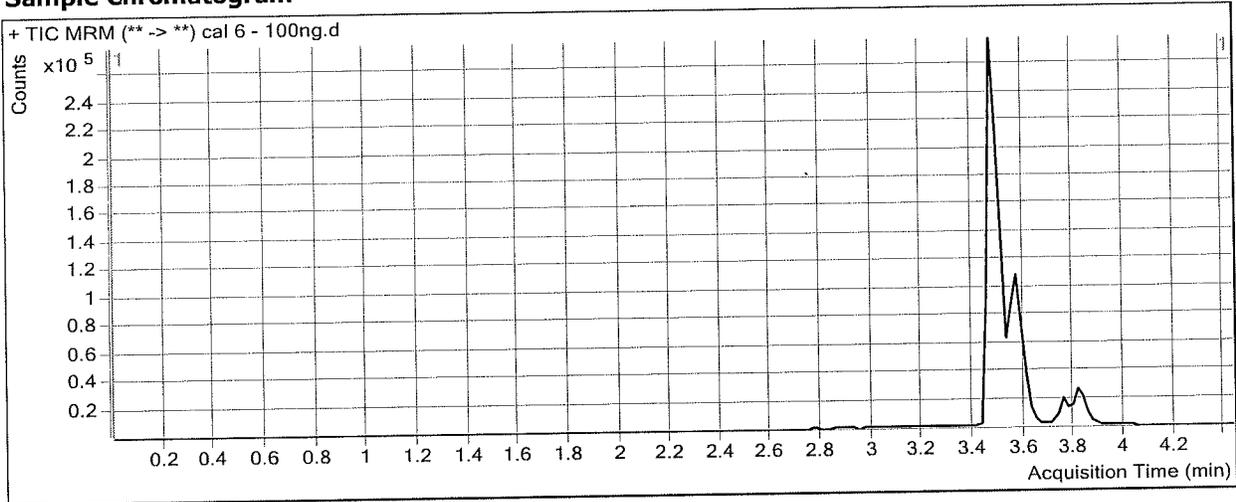
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM Analyst Name ISP Tox
Report Time 12/21/2017 3:34 PM Reporter Name ISP Tox
Last Calib Update 12/19/2017 9:00 AM Batch State Processed

Analysis Info

Acq Time 2017-12-18 11:08 Data File cal 6 - 100ng.d
Sample Type Calibration Sample Name cal 6 - 100ng
Dilution 1 Acq Method Screen THC 8-2017.m
Position P1-F1 Sample Info
Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	457822	435785	1.0506	103.6516
THC-COOH	3.566	187598	88355	2.1232	102.4827
THC	3.820	25663	22185	1.1567	102.1046

ISP FORENSICS - Cd'A

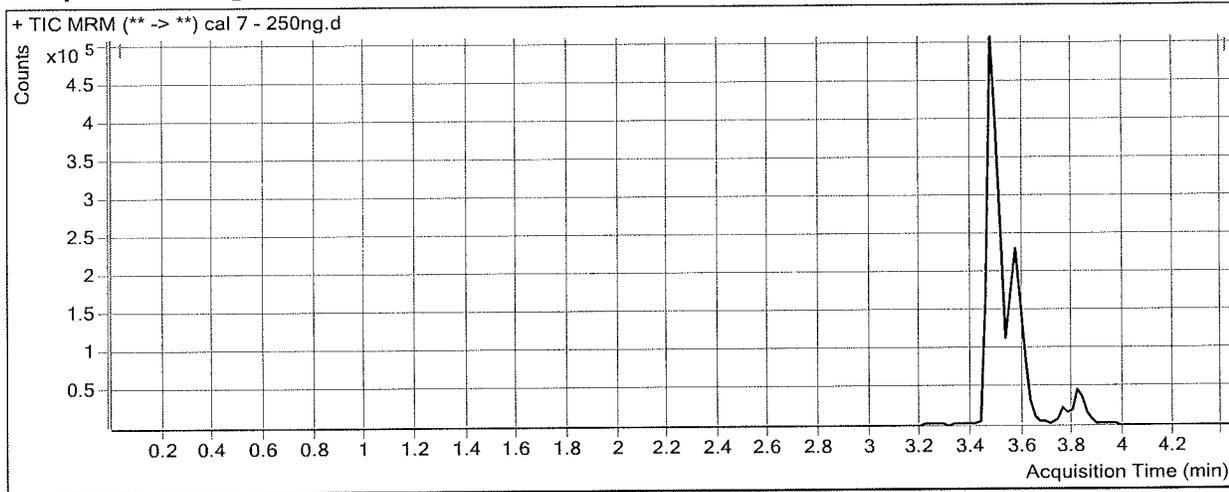
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\121817 blood screen AM 25-26\QuantResults\121817 cann screen.batch.bin
Analysis Time 12/19/2017 9:00 AM **Analyst Name** ISP Tox
Report Time 12/21/2017 3:34 PM **Reporter Name** ISP Tox
Last Calib Update 12/19/2017 9:00 AM **Batch State** Processed

Analysis Info

Acq Time 2017-12-18 11:21 **Data File** cal 7 - 250ng.d
Sample Type Calibration **Sample Name** cal 7 - 250ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	1146159	459039	2.4969	246.2087
THC-COOH	3.566	469312	90032	5.2127	251.7372
THC	3.820	67896	23909	2.8398	249.7109