

B. Wylee

Worklist: 1734

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-0822	1	83569	AM 25/AM 26 Blood MultiDrug/	
C2017-0845	1	83818	AM 25/AM 26 Blood MultiDrug/	
C2017-0855	1	84019	AM 25/AM 26 Blood MultiDrug/	
C2017-0856	1	84021	AM 25/AM 26 Blood MultiDrug/	
C2017-0857	1	84026	AM 25/AM 26 Blood MultiDrug/	
C2017-0858	1	84029	AM 25/AM 26 Blood MultiDrug/	
C2017-0891	1	84385	AM 25/AM 26 Blood MultiDrug/	
C2017-0894	1	84489	AM 25/AM 26 Blood MultiDrug/	
C2017-0895	1	84491	AM 25/AM 26 Blood MultiDrug/	
C2017-0905	1	84511	AM 25/AM 26 Blood MultiDrug/	
C2017-0917	1	84619	AM 25/AM 26 Blood MultiDrug/	
C2017-0919	1	84624	AM 25/AM 26 Blood MultiDrug/	
C2017-0920	1	84626	AM 25/AM 26 Blood MultiDrug/	
C2017-0945	1	84857	AM 25/AM 26 Blood MultiDrug/	
C2017-0946	1	84896	AM 25/AM 26 Blood MultiDrug/	
C2017-0957	1	84938	AM 25/AM 26 Blood MultiDrug/	
C2017-0994	1	85416	AM 25/AM 26 Blood MultiDrug/	
C2017-0995	1	85418	AM 25/AM 26 Blood MultiDrug/	
M2017-1689	1	82175	AM 25/AM 26 Blood MultiDrug/	
M2017-1799	1	85289	AM 25/AM 26 Blood MultiDrug/	
M2017-1841	1	84869	AM 25/AM 26 Blood MultiDrug/	
M2017-1888	1	85291	AM 25/AM 26 Blood MultiDrug/	
M2017-1917	1	84884	AM 25/AM 26 Blood MultiDrug/	

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Worklist: 1734

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2017-1918	1	85292	AM 25/AM 26 Blood MultiDrug/	
M2017-2006	1	84881	AM 25/AM 26 Blood MultiDrug/	
M2017-2047	1	85412	AM 25/AM 26 Blood MultiDrug/	
M2017-2049	5	84883	AM 25/AM 26 Blood MultiDrug/	
M2017-2121	2	84621	AM 25/AM 26 Blood MultiDrug/	
M2017-2187	2	84894	AM 25/AM 26 Blood MultiDrug/	
M2017-2344	5	85414	AM 25/AM 26 Blood MultiDrug/	



Worklist: 1741

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
C2017-0745	1	84573	AM 26 Blood THC Screen by L
C2017-0756	1	84572	AM 26 Blood THC Screen by L



A handwritten signature in blue ink, consisting of a stylized, overlapping loop.

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

Extraction Date: 5-25-17

Analyst: Anne Nord

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: 5-25-17 blood screen AM 25-26

ANALYTIC

- ✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- ✓ 2. Pipette **250µL blood (calibrated pipette)** in wells of analytical (standards) plate.
 - Blank blood for locations containing standards/QCs and internal standards
 - Sample blood for locations containing only internal standards
- ✓ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID 66759*
- ✓ 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical plate.
- ✓ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ✓ 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- ✓ 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID 66729
Wait 5 min.
- ✓ 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- ✓ 9. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*
- ✓ 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- ✓ 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*
- ✓ 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID 66819
- ✓ 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST-ANALYTIC

- ✓ 1. Open quantitation software and create a new quantitation batch. Batch name: 52517 ^{P+ mds p1} ~~CAAA SERECA~~
- ✓ 2. Make any necessary integration changes. 52517 mds plb ^A
- ✓ 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:

Compound Method				p1 cal 1a Results				ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier-1 M...	Qualifier...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	5/25/2017 9...	4.934	919	4.35	328.2 -> 211...	9.89	6-MAM-D6	334.2 -> 165...	4.913	38492
7-aminoclonazepam	286.1 -> 121...	5/25/2017 9...	5.591	24661	1187.81	286.1 -> 222...	61.35	7-Aminoclonazepam-D4	290.1 -> 121...	5.550	105337
Acetyl Fentanyl	323.2 -> 105...	5/25/2017 9...	5.789	18953	39.68	323.2 -> 188...	88.73	Acetyl Fentanyl-D5	328.2 -> 105...	5.788	1078802
Acetyl Norfentanyl	219.1 -> 84.2	5/25/2017 9...	4.908	7746	20.45	219.1 -> 56.3	7.40	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.888	409089
a-hydroxyalprazolam	325.2 -> 297...	5/25/2017 9...	6.460	6177	32.53	325.1 -> 215...	426.96	a-hydroxyalprazolam-D5	330.1 -> 302...	6.459	30817
alpha-PVP	232.2 -> 91.0	5/25/2017 9...	5.558	105988	189.14	232.2 -> 77.1	341.21	alpha-PVP-d8	240.2 -> 91.1	5.557	450081
Alprazolam	309.1 -> 281...	5/25/2017 9...	6.525	53976	113.50	309.1 -> 205...	90.40	Alprazolam-D5	314.1 -> 286...	6.545	206125
Amphetamine	136.1 -> 91.1	5/25/2017 9...	4.830	56613	57.68	136.1 -> 119...	6.50	Amphetamine-D11	147.2 -> 130...	4.789	76996
Bupropion	240.1 -> 184...	5/25/2017 9...	5.741	90514	69.03	240.1 -> 131...	63.35	Bupropion-D9	249.2 -> 185...	5.741	414176
Carisoprodol	261.2 -> 176...	5/25/2017 9...	6.187	53608	6766.73	261.2 -> 55.3	28.06	Carisoprodol-D7	268.2 -> 183...	6.166	344993
Citalopram	325.2 -> 109...	5/25/2017 9...	6.073	180317	79.68	325.2 -> 262...	246.56	Citalopram-D6	331.2 -> 109...	6.072	788865
Clonazepam	316.1 -> 269...	5/25/2017 9...	6.401	15254	1812.28	316.1 -> 213...	24.76	Clonazepam-D4	320.1 -> 217...	6.380	21512
Codeine	300.2 -> 215...	5/25/2017 9...	4.797	7040	20.45	300.2 -> 165...	35.25	Codeine-D6	306.2 -> 218...	4.794	31381
Cyclobenzaprine	276.2 -> 214...	5/25/2017 9...	6.327	94977	304.83	276.2 -> 231...	54.04	Cyclobenzaprine-D3	279.2 -> 215...	6.326	447241
Dextromethorphan	272.2 -> 171...	5/25/2017 9...	6.063	44453	158.34	272.2 -> 147...	146.44	Dextromethorphan-D3	275.2 -> 171...	6.083	222184
Dextrophan	258.2 -> 157...	5/25/2017 9...	5.452	41536	104.72	258.2 -> 133...	3651.28	Dextrophan-D3	261.2 -> 157...	5.431	218230
Diazepam	285.1 -> 193...	5/25/2017 9...	6.772	41309	34.00	285.1 -> 153...	18.01	Diazepam-D5	290.1 -> 198...	6.771	183138
Dihydrocodeine	302.2 -> 198...	5/25/2017 9...	4.775	19968	176.74	302.2 -> 128...	89.56	Dihydrocodeine-D6	308.2 -> 202...	4.734	113237
Diphenhydramine	256.2 -> 167...	5/25/2017 9...	6.025	243309	378.24	256.2 -> 152...	78.40	Diphenhydramine-D3	259.2 -> 167...	6.024	1275926
Doxylamine	271.2 -> 182...	5/25/2017 9...	5.666	230910	35.90	271.2 -> 167...	992.13	Doxylamine-D5	276.2 -> 187...	5.675	1154567
EDDP	279.2 -> 235...	5/25/2017 9...	6.081	197099	27964.76	279.2 -> 250...	1128.84	EDDP-D3	282.2 -> 235...	6.081	87223
Fentanyl	337.2 -> 105...	5/25/2017 9...	5.990	19653	134.61	337.2 -> 188...	92.01	Fentanyl-D5	342.3 -> 105...	5.990	961681
Fluoxetine	310.1 -> 44.3	5/25/2017 9...	6.301	269603	190.47	310.1 -> 148...	49.87	Fluoxetine-D6	316.2 -> 44.3	6.299	1270951
Hydrocodone	300.2 -> 198...	5/25/2017 9...	5.019	30388	1008.87	300.2 -> 128...	29.29	Hydrocodone-D6	306.2 -> 202...	5.017	166128
Hydromorphone	286.2 -> 184...	5/25/2017 9...	4.418	19182	206.35	286.2 -> 157...	22.72	Hydromorphone-D6	292.2 -> 185...	4.397	67538
Ketamine	238.1 -> 125...	5/25/2017 9...	5.414	59424	71.99	238.1 -> 220...	43.99	Ketamine-D4	242.1 -> 129...	5.413	257631
Meprobamate	219.1 -> 158...	5/25/2017 9...	5.681	10631	Infinity	219.1 -> 97.1	20.18	Meprobamate-D7	226.2 -> 165...	5.681	56071
Methadone	310.2 -> 265...	5/25/2017 9...	6.382	208882	Infinity	310.2 -> 105...	92.69	Methadone-D9	319.3 -> 268...	6.360	1048763
Methamphetamine	150.1 -> 91.1	5/25/2017 9...	4.991	149953	5.39	150.1 -> 119...	11.29	Methamphetamine-D11	161.2 -> 97.1	4.950	223128
Morphine	286.2 -> 201...	5/25/2017 9...	4.135	4580	19.57	286.2 -> 165...	31.90	Morphine-D6	292.2 -> 152...	4.114	3415
Naloxone	328.2 -> 309...	5/25/2017 9...	6.388	1055	3.25	328.2 -> 214...	0.69	Naloxone-D5	333.2 -> 315...	6.458	594
Naltrexol	344.2 -> 326...	5/25/2017 9...	4.932	81914	217.25	344.2 -> 308...	193.93	Naltrexol-D3	347.2 -> 329...	4.932	277114
Naltrexone	342.2 -> 324...	5/25/2017 9...	4.882	34689	890.79	342.2 -> 55.3	120.84	Naltrexone-D3	345.2 -> 327...	4.871	175808
Nortuprenorphine	414.3 -> 101...	5/25/2017 9...	5.846	7322	85.79	414.3 -> 57.3	44.16	Nortuprenorphine-D3	417.3 -> 101...	5.825	29407
Nordiazepam	271.1 -> 140...	5/25/2017 9...	6.374	18180	21.30	271.1 -> 208...	7097.73	Nordiazepam-D5	276.1 -> 140...	6.613	58581
Norfentanyl	233.2 -> 84.2	5/25/2017 9...	5.374	152186	1505.57	233.2 -> 55.3	16.35	Norfentanyl-D5	238.2 -> 84.2	5.353	617283
Norhydrocodone	286.2 -> 199...	5/25/2017 9...	4.980	2344	17.02	286.2 -> 171...	10.30	Norhydrocodone-D3	289.2 -> 202...	4.960	54146
Noroxycodone	302.1 -> 284...	5/25/2017 9...	4.917	21196	44.68	302.1 -> 186...	20.32	Noroxycodone-D3	305.2 -> 287...	4.886	100131
O-desmethyl-tramadol	250.2 -> 58.3	5/25/2017 9...	4.945	170390	235.00	250.2 -> 42.3	411.26	O-desmethyl-tramadol...	256.2 -> 64.3	4.945	756970

Peak shape ok.

Not Evaluated

Compound Method		p1 cal 1a			p1 cal 1a Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	Qualifier S/N	Name	Transition	RT	Resp.		
Oxazepam	287.1 -> 240...	5/25/2017 9...	6.468	12176	45.12	287.1 -> 268...	Infinity	Oxazepam-D5	292.1 -> 246...	6.447	62190		
Oxycodone	316.2 -> 298...	5/25/2017 9...	4.934	42549	149.53	316.2 -> 241...	37.60	Oxycodone-D6	322.2 -> 304...	4.914	199349		
Oxymorphone	302.1 -> 284...	5/25/2017 9...	4.274	19779	112.58	302.1 -> 227...	95.37	Oxymorphone-D3	305.2 -> 287...	4.896	100131		
Phentermine	150.1 -> 65.2	5/25/2017 9...	5.133	18066	Infinity	150.1 -> 133...	Infinity	Phentermine-D5	155.2 -> 96.2	5.132	284219		
Promethazine	285.1 -> 86.2	5/25/2017 9...	6.305	301646	295.32	285.1 -> 71.3	146.54	Promethazine-D3	288.2 -> 89.2	6.304	1645742		
Quetiapine	384.2 -> 253...	5/25/2017 9...	6.274	212287	553.21	384.2 -> 221...	428.86	Quetiapine-D8	392.2 -> 226...	6.232	276141		
Sertraline	306.1 -> 158...	5/25/2017 9...	6.527	77819	289.47	306.1 -> 275...	438.69	Sertraline-D3	309.1 -> 275...	6.525	381636		
Sufentanil	387.2 -> 238...	5/25/2017 9...	6.253	16736	93.17	387.2 -> 111...	50.98	Sufentanil-D5	392.2 -> 238...	6.232	644115		
Temazepam	301.1 -> 255...	5/25/2017 9...	6.609	66791	84.09	301.1 -> 283...	11.25	Temazepam-D5	306.1 -> 260...	6.588	325937		
Tramadol	264.2 -> 58.3	5/25/2017 9...	5.471	217554	312.84	264.2 -> 43.3	25.92	Tramadol-13C-D3	268.2 -> 58.3	5.451	1019528		
Trazodone	372.2 -> 176...	5/25/2017 9...	6.173	165408	279.50	372.2 -> 148...	321.48	Trazodone-D6	378.2 -> 182...	6.152	713558		
Venlafaxine	278.2 -> 58.3	5/25/2017 9...	5.818	220395	110.24	278.2 -> 260...	23.27	Venlafaxine-D6	284.2 -> 64.3	5.817	958120		
Zolpidem	308.2 -> 235...	5/25/2017 9...	5.935	154449	131.68	308.2 -> 263...	10904...	Zolpidem-D6	314.2 -> 235...	5.934	795993		

Compound Method			p2 cal 1b			p2 cal 1b Results			Qualifier 1 M...			Qualifier...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	5/25/2017 9:45...	5.783	45488	161.93	284.1 -> 93.2	121.35	291.2 -> 138...	5.761	7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	229551							
alpha-hydroxymidazolam	342.1 -> 324...	5/25/2017 9:45...	6.508	75329	544.75	342.1 -> 203...	105.17	346.1 -> 328...	6.508	alpha-hydroxymidazolam-	346.1 -> 328...	6.508	376843							
Amtriptiyline	278.2 -> 91.2	5/25/2017 9:45...	6.377	220612	Infinity	278.2 -> 105...	Infinity	281.2 -> 91.2	6.416	Amtriptiyline-D3	281.2 -> 91.2	6.416	425061							
Amoxepine	314.1 -> 271...	5/25/2017 9:45...	6.370	69126	5974.61	314.1 -> 193...	239.85	281.2 -> 91.2	6.416	Amtriptiyline-D3	281.2 -> 91.2	6.416	425061							
Benzylegonine	290.1 -> 168...	5/25/2017 9:45...	5.413	16117	252.39	290.1 -> 105...	22.45	298.2 -> 171...	5.391	Benzylegonine-D8	298.2 -> 171...	5.391	5504							
Carbamazepine	237.1 -> 193...	5/25/2017 9:45...	6.198	23032	42.18	237.1 -> 194...	198.25	243.1 -> 200...	6.197	Carbamazepine-13C6	243.1 -> 200...	6.197	10386...							
Chlordiazepoxide	300.1 -> 227...	5/25/2017 9:45...	6.636	27019	24.85	300.1 -> 282...	Infinity	305.1 -> 286...	6.636	Chlordiazepoxide-D5	305.1 -> 286...	6.636	232419							
Clomipramine	315.2 -> 86.2	5/25/2017 9:45...	6.593	325411	332.46	315.2 -> 58.3	520.27	318.2 -> 89.2	6.593	Clomipramine-D3	318.2 -> 89.2	6.593	16171...							
Cocaine	304.2 -> 182...	5/25/2017 9:45...	5.615	132421	Infinity	304.2 -> 105...	11135...	307.2 -> 185...	5.615	Cocaine-D3	307.2 -> 185...	5.615	566420							
Desipramine	267.2 -> 72.3	5/25/2017 9:45...	6.357	252944	Infinity	267.2 -> 44.3	Infinity	270.2 -> 75.3	6.357	Desipramine-D3	270.2 -> 75.3	6.357	12035...							
Doxepin	280.2 -> 107...	5/25/2017 9:45...	6.151	105061	234.75	280.2 -> 77.2	Infinity	283.2 -> 107...	6.130	Doxepin-D3	283.2 -> 107...	6.130	504923							
Estazolam	295.1 -> 267...	5/25/2017 9:45...	6.475	48708	1091.96	295.1 -> 205...	6764.50	300.1 -> 272...	6.453	Estazolam-D5	300.1 -> 272...	6.453	258070							
Flunitrazepam	314.1 -> 268...	5/25/2017 9:45...	6.513	48708	28.86	314.1 -> 239...	27.58	321.1 -> 245...	6.491	Flunitrazepam-D7	321.1 -> 245...	6.491	8912							
Flurazepam	388.2 -> 315...	5/25/2017 9:45...	6.121	123287	114.65	388.2 -> 317...	14117...	393.1 -> 244...	5.856	Zopiclone-D4	393.1 -> 244...	5.856	140692							
Imipramine	281.2 -> 86.2	5/25/2017 9:45...	6.376	341449	Infinity	281.2 -> 58.3	Infinity	284.2 -> 61.3	6.375	Imipramine-D3	284.2 -> 61.3	6.375	893805							
Levamisole	205.1 -> 91.2	5/25/2017 9:45...	4.960	38166	Infinity	205.1 -> 178...	Infinity	307.2 -> 185...	5.615	Cocaine-D3	307.2 -> 185...	5.615	566420							
Maprotiline	278.2 -> 91.2	5/25/2017 9:45...	6.091	133436	Infinity	278.2 -> 117...	8.85	252.2 -> 224...	5.624	Meperidine-D4	252.2 -> 224...	5.624	248580							
MDA	180.1 -> 163...	5/25/2017 9:45...	5.004	38998	146.11	180.1 -> 105...	30237...	185.1 -> 168...	4.983	MDA-D5	185.1 -> 168...	4.983	192868							
MDEA	208.1 -> 163...	5/25/2017 9:45...	5.283	91898	12087...	208.1 -> 105...	Infinity	214.2 -> 166...	5.262	MDEA-D6	214.2 -> 166...	5.262	461555							
MDMA	194.1 -> 163...	5/25/2017 9:45...	5.123	76168	76.62	194.1 -> 105...	Infinity	200.2 -> 166...	5.103	MDMA-D6	200.2 -> 166...	5.103	41032							
Meperidine	248.2 -> 220...	5/25/2017 9:45...	5.625	46705	920.01	248.2 -> 174...	239.10	252.2 -> 224...	5.624	Meperidine-D4	252.2 -> 224...	5.624	248580							
Methylphenidate	234.2 -> 84.2	5/25/2017 9:45...	5.545	244942	Infinity	234.2 -> 56.3	Infinity	252.2 -> 224...	5.624	Meperidine-D4	252.2 -> 224...	5.624	248580							
Metoprolol	268.2 -> 116...	5/25/2017 9:45...	5.479	26460	540.51	268.2 -> 56.3	689.19	330.1 -> 224...	5.624	Meperidine-D4	330.1 -> 224...	5.624	248580							
Midazolam	326.1 -> 223...	5/25/2017 9:45...	6.571	24937	682.51	326.1 -> 249...	39.53	330.1 -> 295...	6.570	Midazolam-D4	330.1 -> 295...	6.570	390727							
Mirtazapine	266.2 -> 195...	5/25/2017 9:45...	5.766	123159	124.88	266.2 -> 72.3	Infinity	243.1 -> 200...	6.197	Carbamazepine-13C6	243.1 -> 200...	6.197	10386...							
Mirtagynine	399.2 -> 174...	5/25/2017 9:45...	6.120	58166	178.12	399.2 -> 238...	90.21	238.2 -> 164...	5.647	Normeperidine-D4	238.2 -> 164...	5.647	227707							
Normeperidine	234.1 -> 42.3	5/25/2017 9:45...	5.648	61037	Infinity	234.1 -> 160...	224.19	331.2 -> 44.3	6.245	Normeperidine-D5	331.2 -> 44.3	6.245	99529							
Norpropoxyphene	326.2 -> 44.3	5/25/2017 9:45...	6.246	25633	54.31	326.2 -> 252...	39.72	267.2 -> 233...	6.398	Norpropoxyphene-D5	267.2 -> 233...	6.398	427906							
Nortriptyline	264.2 -> 91.2	5/25/2017 9:45...	6.318	377953	Infinity	264.2 -> 233...	38566...	289.2 -> 72.3	5.699	Nortriptyline-D3	289.2 -> 72.3	5.699	440434							
Ondansetron	294.2 -> 184...	5/25/2017 9:45...	5.781	75381	678.73	294.2 -> 212...	72.67	289.2 -> 72.3	5.699	Pentazocine-13C3	289.2 -> 72.3	5.699	440434							
Pentazocine	286.2 -> 218...	5/25/2017 9:45...	5.700	109145	726.29	286.2 -> 41.3	Infinity	353.0 -> 183...	6.568	Pentazocine-13C3	353.0 -> 183...	6.568	12484							
Phenazepam	349.0 -> 206...	5/25/2017 9:45...	5.548	37873	162.65	349.0 -> 183...	271.26	249.2 -> 86.2	5.911	Phenazepam-D4	249.2 -> 86.2	5.911	837966							
Phencyclidine	244.2 -> 86.2	5/25/2017 9:45...	5.932	164774	11688...	244.2 -> 91.1	Infinity	263.2 -> 192...	6.094	Phencyclidine-D5	263.2 -> 192...	6.094	11346							
Phenytol	253.1 -> 104...	5/25/2017 9:45...	6.114	2496	50.62	253.1 -> 182...	39.89	330.1 -> 276...	7.015	Phenytol-D10	330.1 -> 276...	7.015	10058...							
Praxepam	325.1 -> 271...	5/25/2017 9:45...	7.037	234143	356.82	325.1 -> 140...	65.89	330.1 -> 276...	7.015	Praxepam-D5	330.1 -> 276...	7.015	10058...							
Primidone	219.1 -> 91.2	5/25/2017 9:45...	5.486	6198	Infinity	219.1 -> 162...	18.94	351.3 -> 277...	6.243	Propoxyphene-D11	351.3 -> 277...	6.243	251158							
Propoxyphene	340.2 -> 58.3	5/25/2017 9:45...	6.245	211035	Infinity	340.2 -> 266...	121.60	267.2 -> 233...	6.398	Propoxyphene-D3	267.2 -> 233...	6.398	427906							
Protriptyline	264.2 -> 155...	5/25/2017 9:45...	6.318	555645	5342.55	264.2 -> 161...	0.11	169.1 -> 151...	4.619	Nortriptyline-D3	169.1 -> 151...	4.619	386496							
Pseudoephedrine	166.1 -> 148...	5/25/2017 9:45...	4.620	807741	Infinity	166.1 -> 133...	128.55	225.2 -> 107...	5.485	Pseudoephedrine-D3	225.2 -> 107...	5.485	648663							
Tapentadol	222.2 -> 107...	5/25/2017 9:45...	5.486	128836	Infinity	222.2 -> 121...	67.78	298.2 -> 103...	6.454	Tapentadol-D3	298.2 -> 103...	6.454	18644...							
Trimipramine	295.2 -> 100...	5/25/2017 9:45...	6.454	380130	495.16	295.2 -> 58.3	533.33	298.2 -> 103...	6.454	Trimipramine-D3	298.2 -> 103...	6.454	18644...							
Verapamil	455.3 -> 165...	5/25/2017 9:45...	6.200	178339	810.09	455.3 -> 150...	132.38	310.2 -> 240...	6.289	Trimipramine-D3	310.2 -> 240...	6.289	166482							
Zaleplon	306.1 -> 236...	5/25/2017 9:45...	6.310	46095	179.10	306.1 -> 264...	117.91	393.1 -> 244...	5.856	Zaleplon-D4	393.1 -> 244...	5.856	140692							
Zopiclone	389.1 -> 244...	5/25/2017 9:45...	5.856	30912	58.92	389.1 -> 216...	123.20			Zopiclone-D4										

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 external control				p1 external control Results				ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	Qualifi...	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	5/25/2017 10:14 PM				328.2 -> 211...		6-MAM-D6	334.2 -> 165...	4.933	35619	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
7-aminoclonazepam	286.1 -> 121...	5/25/2017 10:14 PM				286.1 -> 222...		7-aminoclonazepam-D4	290.1 -> 121...	5.590	111633	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Acetyl Fentanyl	323.2 -> 105...	5/25/2017 10:14 PM				323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	5.788	10194...	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Acetyl Norfentanyl	219.1 -> 84.2	5/25/2017 10:14 PM	4.949	75	1.42	219.1 -> 56.3	2.11	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.888	382894	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
a-hydroxylprazolam	325.1 -> 297...	5/25/2017 10:14 PM	6.793	50	0.78	325.1 -> 215...		a-hydroxylprazolam-D5	330.1 -> 302...	6.438	30000	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
alpha-PVP	232.2 -> 91.0	5/25/2017 10:14 PM	5.334	142	0.59	323.2 -> 77.1		alpha-PVP-d8	240.2 -> 91.1	5.557	413589	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Alprazolam	309.1 -> 281...	5/25/2017 10:14 PM	6.535	412	0.61	309.1 -> 205...	1.03	Alprazolam-D5	314.1 -> 286...	6.545	199348	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Amphetamine	136.1 -> 91.1	5/25/2017 10:14 PM	5.012	32197	21.19	136.1 -> 119...	0.52	Amphetamine-D11	147.2 -> 130...	4.769	63324	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Bupropion	240.1 -> 184...	5/25/2017 10:14 PM	5.557	589	2.01	240.1 -> 131...	3.09	Bupropion-D9	249.2 -> 185...	5.741	378726	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Carisoprodol	261.2 -> 176...	5/25/2017 10:14 PM	6.106	38	0.16	261.2 -> 55.3		Carisoprodol-D7	268.2 -> 183...	6.187	340219	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Citalopram	325.2 -> 109...	5/25/2017 10:14 PM				325.2 -> 262...		Citalopram-D6	331.2 -> 109...	6.072	749398	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Clonazepam	316.1 -> 269...	5/25/2017 10:14 PM	6.544	167	0.93	316.1 -> 213...	3.13	Clonazepam-D4	320.1 -> 217...	6.380	20317	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Codeine	300.2 -> 215...	5/25/2017 10:14 PM	4.797	61186	151.98	300.2 -> 165...	488.78	Codeine-D6	306.2 -> 218...	4.794	29750	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Cyclobenzaprine	276.2 -> 214...	5/25/2017 10:14 PM	6.348	123	1.09	276.2 -> 231...	0.43	Cyclobenzaprine-D3	279.2 -> 215...	6.326	423066	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Dextromethorphan	272.2 -> 171...	5/25/2017 10:14 PM	6.124	172	0.70	272.2 -> 147...	0.72	Dextromethorphan-D3	275.2 -> 171...	6.083	203961	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Dextrophan	258.2 -> 157...	5/25/2017 10:14 PM				258.2 -> 133...		Dextrophan-D3	261.2 -> 157...	5.431	205107	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Diazepam	285.1 -> 193...	5/25/2017 10:14 PM	6.386	1032	0.64	285.1 -> 153...	0.58	Diazepam-D5	290.1 -> 198...	6.730	134827	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Dihydrocodeine	302.2 -> 198...	5/25/2017 10:14 PM	4.816	331	2.59	302.2 -> 128...	3.20	Dihydrocodeine-D6	308.2 -> 202...	4.734	103687	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Diphenhydramine	256.2 -> 167...	5/25/2017 10:14 PM	6.025	22167...	1446.99	256.2 -> 152...	306.66	Diphenhydramine-D3	259.2 -> 167...	6.024	11576...	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Doxylamine	271.2 -> 182...	5/25/2017 10:14 PM	5.799	129	0.46	271.2 -> 167...	0.40	Doxylamine-D5	276.2 -> 187...	5.675	10738...	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
EDDP	279.2 -> 235...	5/25/2017 10:14 PM	6.081	59	1.04	279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.081	74713	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Fentanyl	337.2 -> 105...	5/25/2017 10:14 PM	5.909	67	0.37	337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	5.990	917413	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Fluoxetine	310.1 -> 44.3	5/25/2017 10:14 PM	6.301	345	0.27	310.1 -> 148...		Fluoxetine-D6	316.2 -> 44.3	6.299	12109...	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Hydrocodone	300.2 -> 198...	5/25/2017 10:14 PM	4.817	36542	320.98	300.2 -> 128...	145.65	Hydrocodone-D6	306.2 -> 202...	5.017	151825	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Hydromorphone	286.2 -> 184...	5/25/2017 10:14 PM	4.135	38103	138.39	286.2 -> 157...	796.77	Hydromorphone-D6	292.2 -> 185...	4.397	60583	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Ketamine	238.1 -> 125...	5/25/2017 10:14 PM	5.373	541	3.41	238.1 -> 220...	0.29	Ketamine-D4	242.1 -> 129...	5.413	230882	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Meprobamate	219.1 -> 158...	5/25/2017 10:14 PM	5.701	101	0.42	219.1 -> 97.1	0.54	Meprobamate-D7	226.2 -> 165...	5.681	61561	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Methadone	310.2 -> 265...	5/25/2017 10:14 PM	6.524	5140	6.74	310.2 -> 105...	1.19	Methadone-D9	319.3 -> 268...	6.360	991970	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Methamphetamine	150.1 -> 91.1	5/25/2017 10:14 PM	5.011	112326	11.35	150.1 -> 119...	1.76	Methamphetamine-D11	161.2 -> 97.1	4.970	169156	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Morphine	286.2 -> 201...	5/25/2017 10:14 PM	4.135	71033	Infinity	286.2 -> 165...	185.93	Morphine-D6	292.2 -> 152...	4.114	3096	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Naloxone	328.2 -> 309...	5/25/2017 10:14 PM	6.357	1509	6.14	328.2 -> 211...	0.66	Naloxone-D5	333.2 -> 315...	6.113	374	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Naltrexol	344.2 -> 326...	5/25/2017 10:14 PM	4.892	4103	20.52	344.2 -> 308...		Naltrexol-D3	347.2 -> 329...	4.932	270910	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Naltrexone	342.2 -> 324...	5/25/2017 10:14 PM	4.852	96	0.73	342.2 -> 55.3		Naltrexone-D3	345.2 -> 327...	4.871	142721	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Nortuprenorphine	414.3 -> 101...	5/25/2017 10:14 PM	6.130	171	1.96	414.3 -> 57.3	0.95	Nortuprenorphine-D3	417.3 -> 101...	5.846	30578	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Nordiazepam	271.1 -> 140...	5/25/2017 10:14 PM	6.675	28	0.37	271.1 -> 208...	1.10	Nordiazepam-D5	276.1 -> 140...	6.633	63418	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Norfentanyl	233.2 -> 84.2	5/25/2017 10:14 PM	5.292	136	11.00	233.2 -> 55.3	0.71	Norfentanyl-D5	238.2 -> 84.2	5.353	616177	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Norhydrocodone	286.2 -> 199...	5/25/2017 10:14 PM	4.940	98	1.65	286.2 -> 171...	1.71	Norhydrocodone-D3	289.2 -> 202...	4.960	48904	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Noroxycodone	302.1 -> 284...	5/25/2017 10:14 PM	4.796	319	1.30	302.1 -> 186...	0.31	Noroxycodone-D3	305.2 -> 287...	4.896	92681	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
O-desmethyl-tramadol	250.2 -> 58.3	5/25/2017 10:14 PM	4.945	1974	14.73	250.2 -> 42.3	72.84	O-desmethyl-tramadol-...	256.2 -> 64.3	4.945	727752	O-desmethyl-tramadol	250.2 -> 58.3	4.945	727752
Oxazepam	287.1 -> 240...	5/25/2017 10:14 PM				287.1 -> 268...		Oxazepam-D5	292.1 -> 246...	6.447	63667	Oxazepam	287.1 -> 240...		

Compound Method		p1 external control		p1 external control Results		Qualifier 1 M...		Qualifi...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.		
Oxycodone	316.2 -> 298...	5/25/2017 10:14 PM	4.854	508	2.19	316.2 -> 241...	0.65	Oxycodone-D6	322.2 -> 304...	4.934	192253		
Oxymorphone	302.1 -> 284...	5/25/2017 10:14 PM	4.414	515	1.21	302.1 -> 227...	0.75	Oxymorphone-D3	305.2 -> 287...	4.896	92681		
Phentermine	150.1 -> 65.2	5/25/2017 10:14 PM				150.1 -> 133...		Phentermine-D5	155.2 -> 96.2	5.132	225038		
Promethazine	285.1 -> 86.2	5/25/2017 10:14 PM	6.080	71	0.70	285.1 -> 71.3	0.67	Promethazine-D3	288.2 -> 89.2	6.304	16409...		
Quetiapine	384.2 -> 253...	5/25/2017 10:14 PM	6.274	90	1.45	384.2 -> 221...	0.53	Quetiapine-D8	392.2 -> 226...	6.253	267441		
Sertraline	306.1 -> 158...	5/25/2017 10:14 PM	6.648	72	1.33	306.1 -> 275...	5.20	Sertraline-D3	309.1 -> 275...	6.525	364489		
Sufentanil	387.2 -> 238...	5/25/2017 10:14 PM	6.253	1036	5.22	387.2 -> 111...	2.07	Sufentanil-D5	392.2 -> 238...	6.232	615800		
Temazepam	301.1 -> 255...	5/25/2017 10:14 PM	6.446	270	0.79	301.1 -> 283...		Temazepam-D5	306.1 -> 260...	6.588	336590		
Tramadol	264.2 -> 58.3	5/25/2017 10:14 PM	5.451	5059	6.17	264.2 -> 43.3	0.67	Tramadol-13C-D3	268.2 -> 58.3	5.471	933566		
Trazodone	372.2 -> 176...	5/25/2017 10:14 PM	6.193	585	2.03	372.2 -> 148...	2.19	Trazodone-D6	378.2 -> 182...	6.152	697484		
Venlafaxine	278.2 -> 58.3	5/25/2017 10:14 PM	5.737	2582	3.71	278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.817	887301		
Zolpidem	308.2 -> 235...	5/25/2017 10:14 PM	6.037	228	1.61	308.2 -> 263...		Zolpidem-D6	314.2 -> 235...	5.934	749099		

Compound Method	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	Qualifi...	ISTD Method	Transition	RT	Resp.
7-amino-flunitrazepam	284.1 -> 135...	5/25/2017 10:24 PM	5.845	1555	3.17	284.1 -> 93.2	3.53	7-amino-flunitrazepam-D7	291.2 -> 138...	5.761	202449
alpha-hydroxymidazolam	342.1 -> 324...	5/25/2017 10:24 PM	6.549	56	0.45	342.1 -> 203...		alpha-hydroxymidazolam...	346.1 -> 328...	6.508	354096
Amiripryline	278.2 -> 91.2	5/25/2017 10:24 PM	6.417	12550...	759.60	278.2 -> 105...	688.60	Amiripryline-D3	281.2 -> 91.2	6.416	411237
Amoxepine	314.1 -> 271...	5/25/2017 10:24 PM	6.492	344	74.45	314.1 -> 193...	15.86	Amiripryline-D3	281.2 -> 91.2	6.416	411237
Benzylegonine	290.1 -> 168...	5/25/2017 10:24 PM			290.1 -> 105...			Benzylegonine-D8	298.2 -> 171...	5.391	4907
Carbamazepine	237.1 -> 193...	5/25/2017 10:24 PM	6.178	127	2.08	237.1 -> 194...		Carbamazepine-13C6	243.1 -> 200...	6.197	10128...
Chlordiazepoxide	300.1 -> 227...	5/25/2017 10:24 PM	6.473	365	2.43	300.1 -> 282...		Chlordiazepoxide-D5	305.1 -> 286...	6.636	215228
Clonipramine	315.2 -> 86.2	5/25/2017 10:24 PM	6.918	32	1.21	315.2 -> 58.3	0.94	Clonipramine-D3	318.2 -> 89.2	6.593	14573...
Cocaine	304.2 -> 182...	5/25/2017 10:24 PM	5.800	88	0.46	304.2 -> 105...		Cocaine-D3	307.2 -> 185...	5.615	526316
Desipramine	267.2 -> 72.3	5/25/2017 10:24 PM	6.378	2383	1.39	267.2 -> 44.3	5.51	Desipramine-D3	270.2 -> 75.3	6.357	11834...
Doxepin	280.2 -> 107...	5/25/2017 10:24 PM			280.2 -> 77.2			Doxepin-D3	283.2 -> 107...	6.150	488397
Estazolam	295.1 -> 267...	5/25/2017 10:24 PM	6.209	93	0.63	295.1 -> 205...	2.63	Estazolam-D5	300.1 -> 272...	6.453	249936
Flunitrazepam	314.1 -> 268...	5/25/2017 10:24 PM	6.513	548	1.00	314.1 -> 239...		Flunitrazepam-D7	321.1 -> 245...	6.512	9237
Flurazepam	388.2 -> 315...	5/25/2017 10:24 PM	6.263	55	0.42	388.2 -> 317...		Zopiclone-D4	393.1 -> 244...	5.856	92079
Imipramine	281.2 -> 86.2	5/25/2017 10:24 PM	6.416	3128	5.21	281.2 -> 58.3	0.70	Imipramine-D3	284.2 -> 61.3	6.375	816045
Levamisole	205.1 -> 91.2	5/25/2017 10:24 PM	4.817	415	1.47	205.1 -> 178...	1.99	Cocaine-D3	307.2 -> 185...	5.615	526316
Maprotiline	278.2 -> 91.2	5/25/2017 10:24 PM	6.212	718	0.44	278.2 -> 117...	0.49	Meperidine-D4	252.2 -> 224...	5.624	221840
MDA	180.1 -> 163...	5/25/2017 10:24 PM	5.185	90	0.53	180.1 -> 105...		MDA-D5	185.1 -> 168...	4.983	172371
MDEA	208.1 -> 163...	5/25/2017 10:24 PM			208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.262	404457
MDMA	194.1 -> 163...	5/25/2017 10:24 PM			194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.103	38358
Meperidine	248.2 -> 220...	5/25/2017 10:24 PM	5.830	985	2.01	248.2 -> 174...	0.64	Meperidine-D4	252.2 -> 224...	5.624	221840
Methylphenidate	234.2 -> 84.2	5/25/2017 10:24 PM	5.316	44	1.86	234.2 -> 56.3	25.28	Meperidine-D4	252.2 -> 224...	5.624	221840
Metoprolol	268.2 -> 116...	5/25/2017 10:24 PM			268.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.624	221840
Midazolam	326.1 -> 223...	5/25/2017 10:24 PM			326.1 -> 249...			Midazolam-D4	330.1 -> 295...	6.591	357672
Mirtazapine	266.2 -> 195...	5/25/2017 10:24 PM	5.766	10964...	739.06	266.2 -> 72.3	460.31	Midazolam-D4	330.1 -> 295...	6.591	357672
Mitragynine	399.2 -> 174...	5/25/2017 10:24 PM			399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.197	10128...
Normeperidine	234.1 -> 42.3	5/25/2017 10:24 PM	5.669	96	0.77	234.1 -> 160...		Normeperidine-D4	238.2 -> 164...	5.626	217089
Norpropoxyphene	326.2 -> 44.3	5/25/2017 10:24 PM	6.388	75	1.28	326.2 -> 252...		Norpropoxyphene-D5	331.2 -> 44.3	6.245	85288
Nortriptyline	264.2 -> 91.2	5/25/2017 10:24 PM	6.399	1687	0.80	264.2 -> 233...	348.66	Nortriptyline-D3	267.2 -> 233...	6.398	410372
Ondansetron	294.2 -> 184...	5/25/2017 10:24 PM			294.2 -> 212...			Pentazocine-13C3	289.2 -> 72.3	5.699	408701
Pentazocine	286.2 -> 218...	5/25/2017 10:24 PM			286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.699	408701
Phenazepam	349.0 -> 206...	5/25/2017 10:24 PM	6.528	1616	2.91	349.0 -> 183...		Phenazepam-D4	353.0 -> 183...	6.568	14300
Phencyclidine	244.2 -> 86.2	5/25/2017 10:24 PM	5.932	602	1.95	244.2 -> 91.1		Phencyclidine-D5	249.2 -> 86.2	5.911	786812
Phenylethanolamine	253.1 -> 104...	5/25/2017 10:24 PM	6.135	37	0.42	253.1 -> 182...	0.36	Phenylethanolamine-D10	263.2 -> 192...	6.094	10766
Praxapram	325.1 -> 271...	5/25/2017 10:24 PM	6.937	215	1.54	325.1 -> 140...		Praxapram-D5	330.1 -> 276...	6.975	303785
Primiprone	219.1 -> 91.2	5/25/2017 10:24 PM	5.710	2003	4.71	219.1 -> 162...	2.31	Praxapram-D5	330.1 -> 276...	6.975	303785
Propoxyphene	340.2 -> 58.3	5/25/2017 10:24 PM	6.326	91	0.25	340.2 -> 266...		Propoxyphene-D11	351.3 -> 277...	6.243	241488
Proprylolone	264.2 -> 155...	5/25/2017 10:24 PM	6.399	59	0.73	264.2 -> 161...		Nortriptyline-D3	267.2 -> 233...	6.398	410372
Pseudoephedrine	166.1 -> 148...	5/25/2017 10:24 PM	4.702	673	0.52	166.1 -> 133...		Pseudoephedrine-D3	169.1 -> 151...	4.619	331561
Tapentadol	222.2 -> 107...	5/25/2017 10:24 PM			222.2 -> 121...			Tapentadol-D3	225.2 -> 107...	5.485	608277
Trimipramine	295.2 -> 100...	5/25/2017 10:24 PM	6.515	379	0.77	295.2 -> 58.3		Trimipramine-D3	298.2 -> 103...	6.454	17340...
Verapamil	455.3 -> 165...	5/25/2017 10:24 PM			455.3 -> 150...			Trimipramine-D3	298.2 -> 103...	6.454	17340...
Zaleplon	306.1 -> 236...	5/25/2017 10:24 PM			306.1 -> 264...			Zaleplon-D4	310.2 -> 240...	6.289	170940
Zopiclone	389.1 -> 244...	5/25/2017 10:24 PM	6.181	66	2.28	389.1 -> 216...	0.65	Zopiclone-D4	393.1 -> 244...	5.856	92079

Compound Method				p1 negative			p1 negative Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	S/N	Quali...	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	5/25/2017 9:55 PM				328.2 -> 211...			6-MAM-D6	334.2 -> 165...	4.913	36843			
7-Aminoclonazepam	286.1 -> 121...	5/25/2017 9:55 PM				286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.590	109619			
Acetyl Fentanyl	323.2 -> 105...	5/25/2017 9:55 PM				323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	5.768	10113...			
Acetyl Norfentanyl	219.1 -> 84.2	5/25/2017 9:55 PM	4.929	87	1.25	219.1 -> 56.3	1.84		Acetyl Norfentanyl-D5	224.2 -> 84.2	4.888	384531			
a-hydroxylalprazolam	325.1 -> 297...	5/25/2017 9:55 PM	6.257	55	0.76	325.1 -> 215...			a-hydroxylalprazolam-D5	330.1 -> 302...	6.459	30653			
alpha-PVP	232.2 -> 91.0	5/25/2017 9:55 PM	5.885	76	0.54	232.2 -> 77.1	3.89		alpha-PVP-D8	240.2 -> 91.1	5.536	425285			
Alprazolam	309.1 -> 281...	5/25/2017 9:55 PM	6.363	2185	5.46	309.1 -> 205...	28.88		Alprazolam-D5	314.1 -> 286...	6.545	204641			
Amphetamine	136.1 -> 91.1	5/25/2017 9:55 PM	4.992	35868	18.96	136.1 -> 119...			Amphetamine-D11	147.2 -> 130...	4.769	73757			
Bupropion	240.1 -> 184...	5/25/2017 9:55 PM	5.536	214	0.79	240.1 -> 131...	4.52		Bupropion-D9	249.2 -> 185...	5.720	381491			
Carisoprodol	261.2 -> 176...	5/25/2017 9:55 PM	6.106	194	1.24	261.2 -> 55.3	0.47		Carisoprodol-D7	268.2 -> 183...	6.166	329283			
Citalopram	325.2 -> 109...	5/25/2017 9:55 PM				325.2 -> 262...			Citalopram-D6	331.2 -> 109...	6.072	768104			
Clonazepam	316.1 -> 289...	5/25/2017 9:55 PM	6.544	508	4.35	316.1 -> 213...	0.34		Clonazepam-D4	320.1 -> 217...	6.380	22071			
Codeine	300.2 -> 215...	5/25/2017 9:55 PM				300.2 -> 165...			Codeine-D6	306.2 -> 218...	4.774	28508			
Cyclobenzaprine	276.2 -> 214...	5/25/2017 9:55 PM	6.307	218	0.66	276.2 -> 231...	0.66		Cyclobenzaprine-D3	279.2 -> 215...	6.326	417631			
Dextromethorphan	272.2 -> 171...	5/25/2017 9:55 PM	6.042	96	0.67	272.2 -> 147...	0.49		Dextromethorphan-D3	275.2 -> 171...	6.083	206133			
Dextrophan	258.2 -> 157...	5/25/2017 9:55 PM	5.167	18	0.76	258.2 -> 133...			Dextrophan-D3	261.2 -> 157...	5.431	202792			
Diazepam	285.1 -> 193...	5/25/2017 9:55 PM	6.386	1094	1.17	285.1 -> 153...			Diazepam-D5	290.1 -> 198...	6.771	188899			
Dihydrocodeine	302.2 -> 198...	5/25/2017 9:55 PM				302.2 -> 128...			Dihydrocodeine-D6	308.2 -> 202...	4.734	106151			
Diphenhydramine	256.2 -> 167...	5/25/2017 9:55 PM				256.2 -> 152...			Diphenhydramine-D3	259.2 -> 167...	6.024	11997...			
Doxylamine	271.2 -> 182...	5/25/2017 9:55 PM	5.696	1315	1.11	271.2 -> 167...			Doxylamine-D5	276.2 -> 187...	5.675	10304...			
EDDP	279.2 -> 235...	5/25/2017 9:55 PM	6.061	461	4.31	279.2 -> 250...	1.03		EDDP-D3	282.2 -> 235...	6.081	79519			
Fentanyl	337.2 -> 105...	5/25/2017 9:55 PM	6.011	60	0.21	337.2 -> 188...			Fentanyl-D5	342.3 -> 105...	5.990	917472			
Fluoxetine	310.1 -> 44.3	5/25/2017 9:55 PM	6.301	699	4.52	310.1 -> 148...	0.77		Fluoxetine-D6	316.2 -> 44.3	6.299	11961...			
Hydrocodone	300.2 -> 198...	5/25/2017 9:55 PM	4.837	24	0.27	300.2 -> 128...			Hydrocodone-D6	306.2 -> 202...	4.996	153015			
Hydromorphone	286.2 -> 184...	5/25/2017 9:55 PM	4.479	63	0.75	286.2 -> 157...	0.71		Hydromorphone-D6	292.2 -> 185...	4.397	61819			
Ketamine	238.1 -> 125...	5/25/2017 9:55 PM	5.353	1003	1.49	238.1 -> 220...	0.34		Ketamine-D4	242.1 -> 129...	5.393	234022			
Meprobamate	219.1 -> 158...	5/25/2017 9:55 PM	6.089	199	0.91	219.1 -> 97.1	0.27		Meprobamate-D7	226.2 -> 165...	5.660	62291			
Methadone	310.2 -> 285...	5/25/2017 9:55 PM	6.524	3956	1.32	310.2 -> 105...	0.33		Methadone-D9	319.3 -> 268...	6.360	986476			
Methamphetamine	150.1 -> 91.1	5/25/2017 9:55 PM	4.991	96857	2.56	150.1 -> 119...	33.98		Methamphetamine-D11	161.2 -> 97.1	4.950	228684			
Morphine	286.2 -> 201...	5/25/2017 9:55 PM	4.297	46	1.34	286.2 -> 165...	0.56		Morphine-D6	292.2 -> 152...	4.114	2903			
Naloxone	328.2 -> 309...	5/25/2017 9:55 PM	6.357	1273	3.26	328.2 -> 211...	0.76		Naloxone-D5	333.2 -> 315...	6.458	377			
Naltrexol	344.2 -> 326...	5/25/2017 9:55 PM	4.872	3796	20.65	344.2 -> 308...	1.40		Naltrexol-D3	347.2 -> 329...	4.932	269809			
Naltrexone	342.2 -> 324...	5/25/2017 9:55 PM	4.892	61	0.39	342.2 -> 55.3	0.53		Naltrexone-D3	345.2 -> 327...	4.871	155792			
Norbuprenorphine	414.3 -> 101...	5/25/2017 9:55 PM	6.130	96	12.86	414.3 -> 57.3	0.95		Norbuprenorphine-D3	417.3 -> 101...	5.825	27671			
Nordiazepam	271.1 -> 140...	5/25/2017 9:55 PM	6.390	327	0.77	271.1 -> 208...			Nordiazepam-D5	276.1 -> 140...	6.613	66929			
Norfentanyl	233.2 -> 84.2	5/25/2017 9:55 PM	5.414	204	0.98	233.2 -> 55.3	1.30		Norfentanyl-D5	238.2 -> 84.2	5.353	587015			
Norhydrocodone	286.2 -> 199...	5/25/2017 9:55 PM	4.920	257	3.22	286.2 -> 171...	0.51		Norhydrocodone-D3	289.2 -> 202...	4.960	49781			
Noroxycodone	302.1 -> 284...	5/25/2017 9:55 PM	4.917	556	1.83	302.1 -> 186...	1.98		Noroxycodone-D3	305.2 -> 287...	4.896	98349			
O-desmethyl-tramadol	250.2 -> 58.3	5/25/2017 9:55 PM	4.925	1154	2.04	250.2 -> 42.3	10.98		O-desmethyl-tramadol-...	256.2 -> 64.3	4.925	707209			
Oxazepam	287.1 -> 240...	5/25/2017 9:55 PM				287.1 -> 268...			Oxazepam-D5	292.1 -> 246...	6.447	71555			

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...		Qualif.		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.			
Oxycodone	316.2 -> 298...	5/25/2017 9:55 PM	4.854	680	2.66	316.2 -> 241...		Oxycodone-D6	322.2 -> 304...	4.914	186339			
Oxymorphone	302.1 -> 284...	5/25/2017 9:55 PM	4.455	502	1.49	302.1 -> 227...	0.49	Oxymorphone-D3	305.2 -> 287...	4.896	98349			
Phentermine	150.1 -> 65.2	5/25/2017 9:55 PM	5.214	1999	Infinity	150.1 -> 133...		Phentermine-D5	155.2 -> 96.2	5.132	268292			
Promethazine	285.1 -> 86.2	5/25/2017 9:55 PM	6.285	215	0.83	285.1 -> 71.3	0.47	Promethazine-D3	288.2 -> 89.2	6.304	15808...			
Quetiapine	384.2 -> 253...	5/25/2017 9:55 PM	6.253	551	2.09	384.2 -> 221...	3.88	Quetiapine-D8	392.2 -> 226...	6.232	265472			
Setraline	306.1 -> 158...	5/25/2017 9:55 PM	6.567	135	1.45	306.1 -> 275...	10.20	Setraline-D3	309.1 -> 275...	6.525	366622			
Sufentanil	387.2 -> 238...	5/25/2017 9:55 PM	6.233	708	3.92	387.2 -> 111...	3.40	Sufentanil-D5	392.2 -> 238...	6.232	591169			
Temazepam	301.1 -> 255...	5/25/2017 9:55 PM	6.446	951	0.70	301.1 -> 283...	3.86	Temazepam-D5	306.1 -> 260...	6.588	345439			
Tramadol	264.2 -> 58.3	5/25/2017 9:55 PM	5.471	5310	6.69	264.2 -> 43.3	0.58	Tramadol-13C-D3	268.2 -> 58.3	5.451	916716			
Trazodone	372.2 -> 176...	5/25/2017 9:55 PM	6.173	1184	4.68	372.2 -> 148...	2.39	Trazodone-D6	378.2 -> 182...	6.152	683819			
Venlafaxine	278.2 -> 58.3	5/25/2017 9:55 PM	5.737	3943	5.53	278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.817	898647			
Zolpidem	308.2 -> 235...	5/25/2017 9:55 PM	6.057	59	0.42	308.2 -> 263...	0.60	Zolpidem-D6	314.2 -> 235...	5.934	709826			

Compound Method	Transition	p2 negative	p2 negative Results	Qualifier 1 M...	Qu...	ISTD Method	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	5/25/2017 10:0...	5.783	1095	1.75	284.1 -> 93.2	5.33	5.761	205743
alpha-hydroxymidazolam	342.1 -> 324...	5/25/2017 10:0...	6.407	52	0.35	342.1 -> 203...	5.33	6.508	357837
Amiripryline	278.2 -> 91.2	5/25/2017 10:0...	6.539	2680	3.28	278.2 -> 105...	0.35	6.416	405579
Amoxapine	314.1 -> 271...	5/25/2017 10:0...	6.410	31	0.35	314.1 -> 193...	0.35	6.416	405579
Benzylecgonine	290.1 -> 168...	5/25/2017 10:0...				290.1 -> 105...		5.371	5654
Carbamazepine	237.1 -> 193...	5/25/2017 10:0...				237.1 -> 194...		6.197	991014
Chlordiazepoxide	300.1 -> 227...	5/25/2017 10:0...	6.473	458	1.66	300.1 -> 282...	0.34	6.536	220447
Clomipramine	315.2 -> 86.2	5/25/2017 10:0...	6.878	30	0.38	315.2 -> 58.3	0.38	6.593	1470902
Cocaine	304.2 -> 182...	5/25/2017 10:0...	5.595	892	1.31	304.2 -> 105...	0.54	5.594	520520
Desipramine	267.2 -> 72.3	5/25/2017 10:0...	6.337	1622	2.38	267.2 -> 44.3	3.43	6.357	1165516
Doxepin	280.2 -> 107...	5/25/2017 10:0...	6.070	63	0.45	280.2 -> 77.2	0.45	6.130	481659
Estazolam	295.1 -> 267...	5/25/2017 10:0...				295.1 -> 205...		6.453	252856
Flunitrazepam	314.1 -> 268...	5/25/2017 10:0...	6.513	1324	1.23	314.1 -> 239...	0.54	6.471	8970
Flurazepam	388.2 -> 315...	5/25/2017 10:0...	6.202	117	1.58	388.2 -> 317...	0.88	5.836	129588
Imipramine	281.2 -> 86.2	5/25/2017 10:0...	6.416	2546	9.67	281.2 -> 58.3	0.88	6.375	838222
Levamisole	205.1 -> 91.2	5/25/2017 10:0...				205.1 -> 178...		5.594	520520
Maprotiline	278.2 -> 91.2	5/25/2017 10:0...	6.212	2425	0.65	278.2 -> 117...	1.73	5.624	244320
MDA	180.1 -> 163...	5/25/2017 10:0...	5.104	117	22.65	180.1 -> 105...	0.45	4.983	184291
MDEA	208.1 -> 163...	5/25/2017 10:0...	5.242	101	0.72	208.1 -> 105...	0.45	5.262	418184
MDMA	194.1 -> 163...	5/25/2017 10:0...				194.1 -> 105...	0.51	5.103	37519
Meperidine	248.2 -> 220...	5/25/2017 10:0...	5.830	2018	7.97	248.2 -> 174...	0.51	5.624	244320
Methylphenidate	234.2 -> 84.2	5/25/2017 10:0...	5.648	131	1.02	234.2 -> 56.3	0.31	5.624	244320
Metoprolol	268.2 -> 116...	5/25/2017 10:0...				268.2 -> 56.3		5.624	244320
Midazolam	326.1 -> 223...	5/25/2017 10:0...	6.592	98	0.74	326.1 -> 249...	0.74	6.570	355481
Mirtazapine	266.2 -> 195...	5/25/2017 10:0...	5.745	133	0.49	266.2 -> 72.3	0.49	6.570	355481
Mitragynine	399.2 -> 174...	5/25/2017 10:0...				399.2 -> 238...		6.197	991014
Normeperidine	234.1 -> 42.3	5/25/2017 10:0...	5.607	108	1.18	234.1 -> 160...	0.54	5.626	217734
Norpropoxyphene	326.2 -> 44.3	5/25/2017 10:0...				326.2 -> 252...		6.225	85016
Nortriptyline	264.2 -> 91.2	5/25/2017 10:0...	6.399	529	1.15	264.2 -> 233...	2.72	6.398	399745
Ondansetron	294.2 -> 184...	5/25/2017 10:0...	5.720	79	1.72	294.2 -> 212...	0.76	5.699	406546
Pentazocine	286.2 -> 218...	5/25/2017 10:0...				286.2 -> 41.3		5.699	406546
Phenazepam	349.0 -> 206...	5/25/2017 10:0...	6.488	1085	6.83	349.0 -> 183...		6.568	16652
Phencyclidine	244.2 -> 86.2	5/25/2017 10:0...				244.2 -> 91.1		5.911	737758
Phenylethylamine	253.1 -> 104...	5/25/2017 10:0...	6.013	74	0.57	253.1 -> 182...	0.57	6.074	10755
Prazepam	325.1 -> 271...	5/25/2017 10:0...	6.917	62	0.33	325.1 -> 140...	0.37	7.015	892889
Propoxyphene	219.1 -> 91.2	5/25/2017 10:0...	5.731	2956	0.92	219.1 -> 162...	0.29	7.015	892889
Propryltine	340.2 -> 58.3	5/25/2017 10:0...	6.509	177	0.63	340.2 -> 266...	0.18	6.243	234554
Pseudoephedrine	264.2 -> 155...	5/25/2017 10:0...	6.235	37	3.96	264.2 -> 161...	0.18	6.398	399745
Tapentadol	166.1 -> 148...	5/25/2017 10:0...	4.580	730	0.78	166.1 -> 133...	0.52	4.619	348773
Trimipramine	222.2 -> 107...	5/25/2017 10:0...				222.2 -> 121...		5.485	606305
Verapamil	295.2 -> 100...	5/25/2017 10:0...	6.434	405	0.74	295.2 -> 58.3	0.34	6.454	1692466
Zaleplon	455.3 -> 165...	5/25/2017 10:0...	6.099	55	0.81	455.3 -> 150...	0.91	6.454	1692466
Zopiclone	306.1 -> 236...	5/25/2017 10:0...	5.983	24	0.90	306.1 -> 264...	0.24	6.289	174129
	389.1 -> 244...	5/25/2017 10:0...	6.627	64	0.76	389.1 -> 216...	0.24	5.836	129588

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

Extraction Date: 5-25-17 Analyst: Anne Nord

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** • **0.1% Formic Acid in water**
 - Mobile Phase B: **0.1% FA in MeOH** • **MTBE**
 - Blank/Negative Blood: **Lot 321632-1** • **Hexane**
 - **Column: Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
- 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: 5-25-17 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: 52517 cann screen
- 2. Make any necessary integration changes.
- 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?
- 4. Did QCs pass for each analyte? Y / N _____
- 5. Central File Packet to include: LIMS Worklist: Method Checklist Calibration and Control Reports

Comments:



ISP FORENSICS - Cd'A

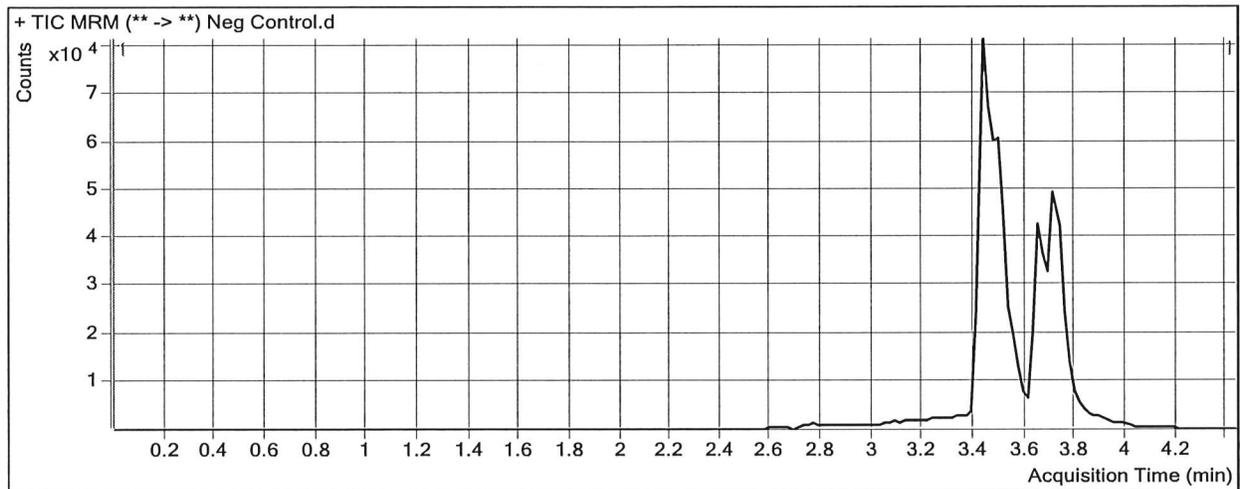
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 16:59 **Data File** Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-a2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen negative blood lot 32632-1

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.586	2450	81795	0.0299	1.1358

ISP FORENSICS - Cd'A

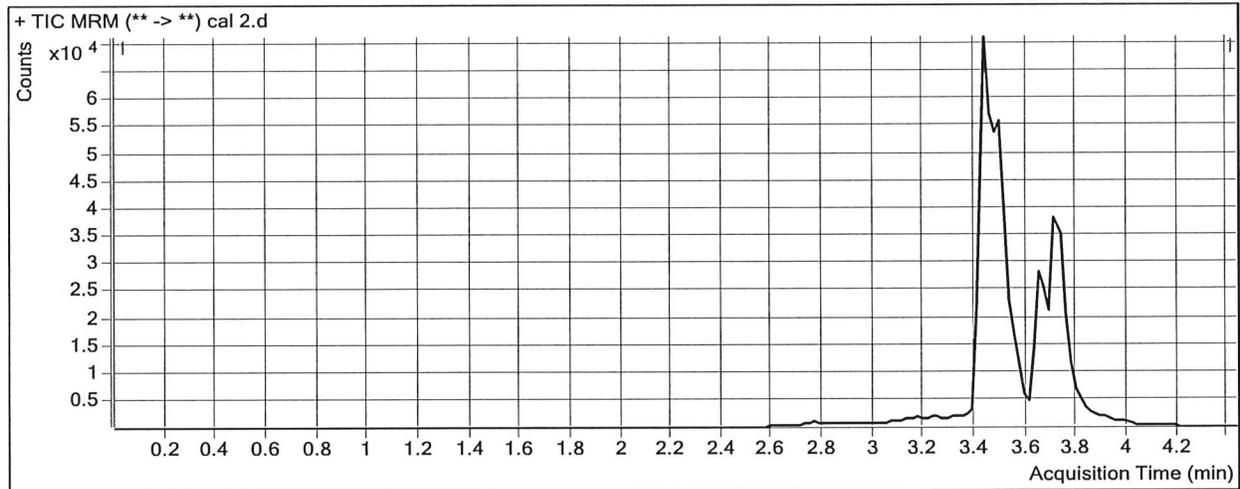
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 16:26 **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-OH	3.433	15390	295076	0.0522	5.9350
THC-COOH	3.506	8736	69383	0.1259	5.3232
THC	3.720	1306	23499	0.0556	6.3339

ISP FORENSICS - Cd'A

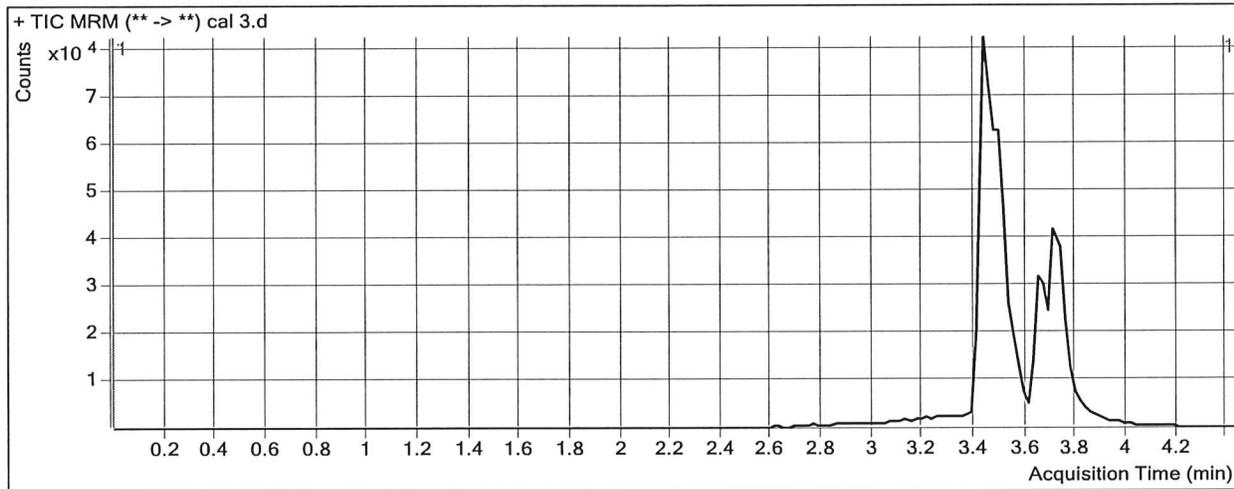
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 16:33 **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-OH	3.433	30996	323630	0.0958	9.9060
THC-COOH	3.506	17747	67586	0.2626	11.2873
THC	3.720	2526	26849	0.0941	9.2457

ISP FORENSICS - Cd'A

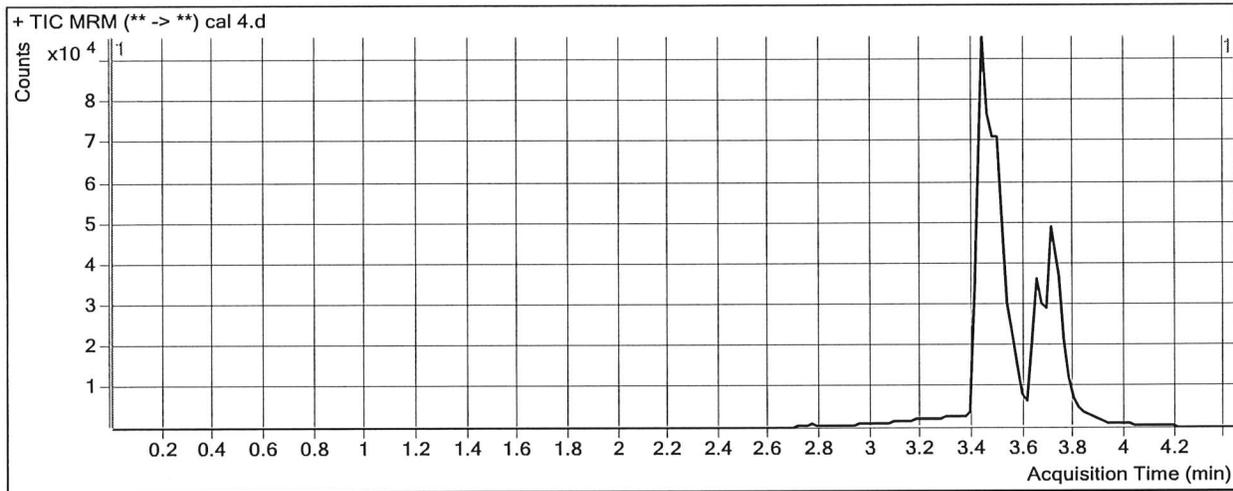
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 16:39 **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-OH	3.433	78136	328873	0.2376	22.8164
THC-COOH	3.506	34483	66850	0.5158	22.3377
THC	3.720	7247	26577	0.2727	22.7599

ISP FORENSICS - Cd'A

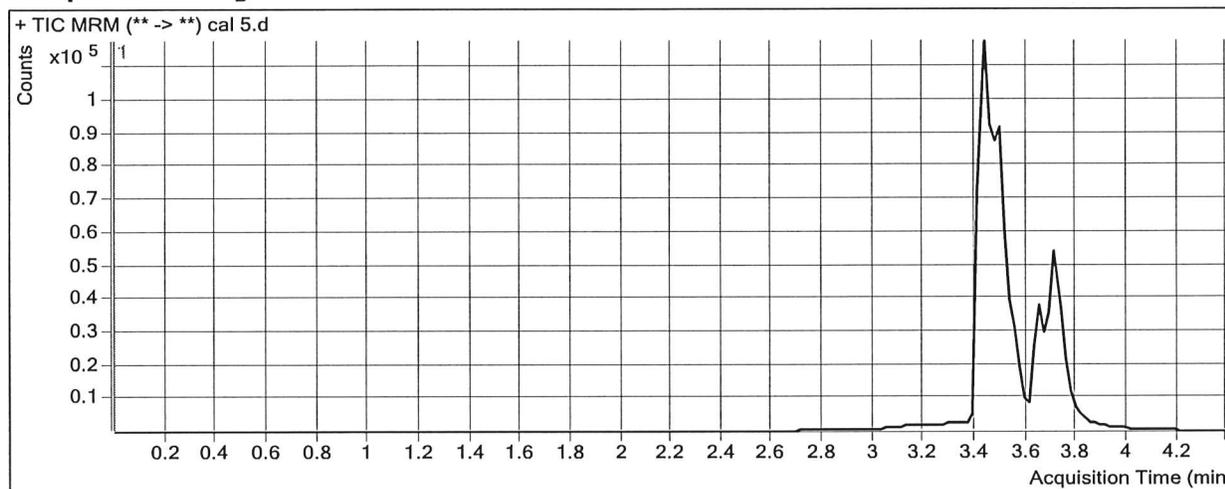
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 16:46 **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-OH	3.433	163605	350981	0.4661	43.6232
THC-COOH	3.506	71875	71060	1.0115	43.9658
THC	3.720	15420	27247	0.5660	44.9488

ISP FORENSICS - Cd'A

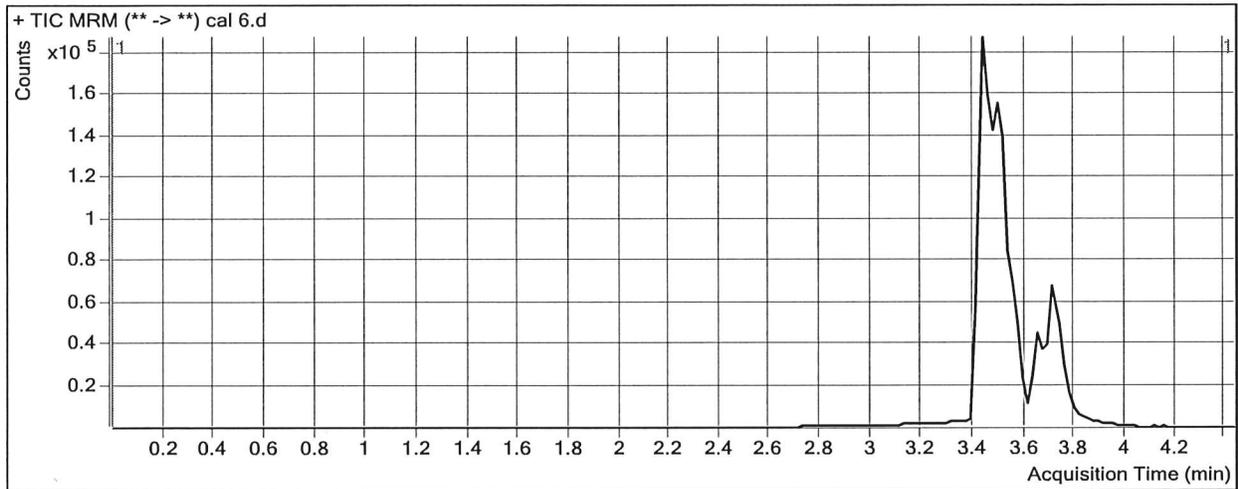
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 16:53 **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-OH	3.433	430689	392567	1.0971	101.0659
THC-COOH	3.506	194269	83865	2.3164	100.9104
THC	3.720	39870	32340	1.2329	95.4058

ISP FORENSICS - Cd'A

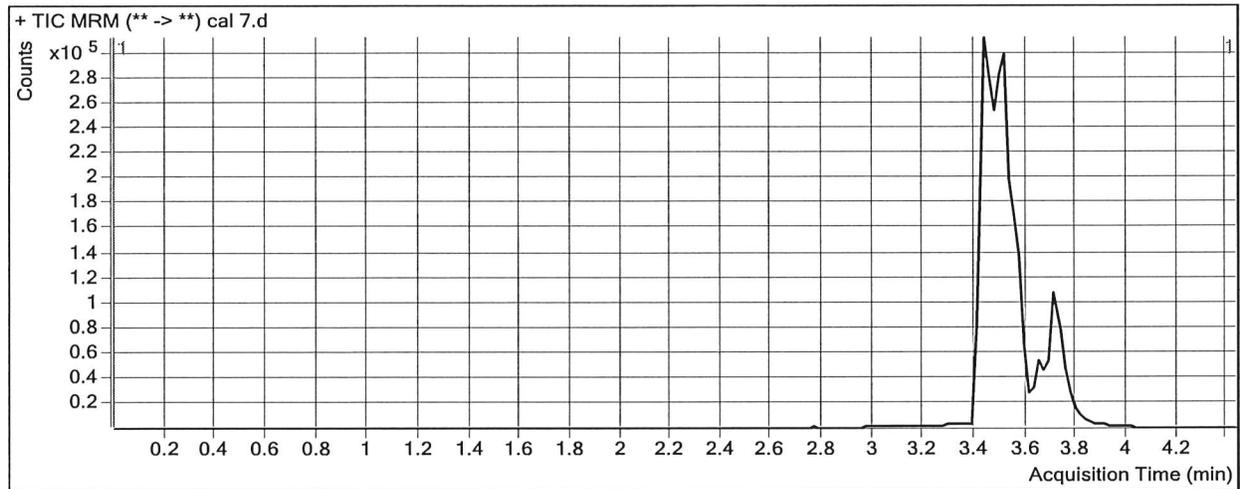
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 17:06 **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-OH	3.433	1078501	384336	2.8061	256.6535
THC-COOH	3.506	528980	90046	5.8746	256.1756
THC	3.720	119312	34830	3.4256	261.3059

ISP FORENSICS - Cd'A

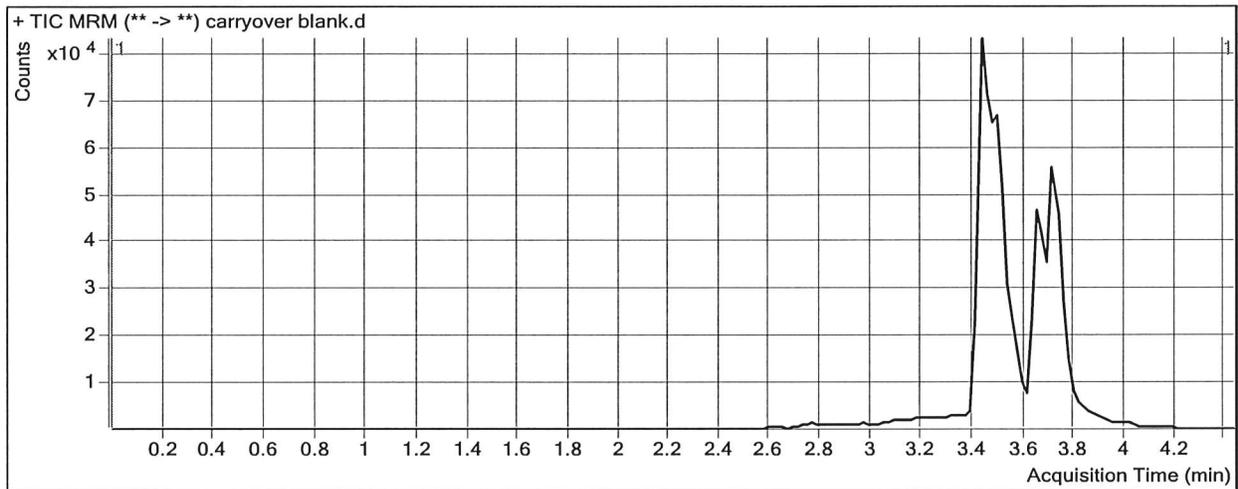
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 17:12 **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	3.586	2330	95656	0.0244	0.8916

ISP FORENSICS - Cd'A

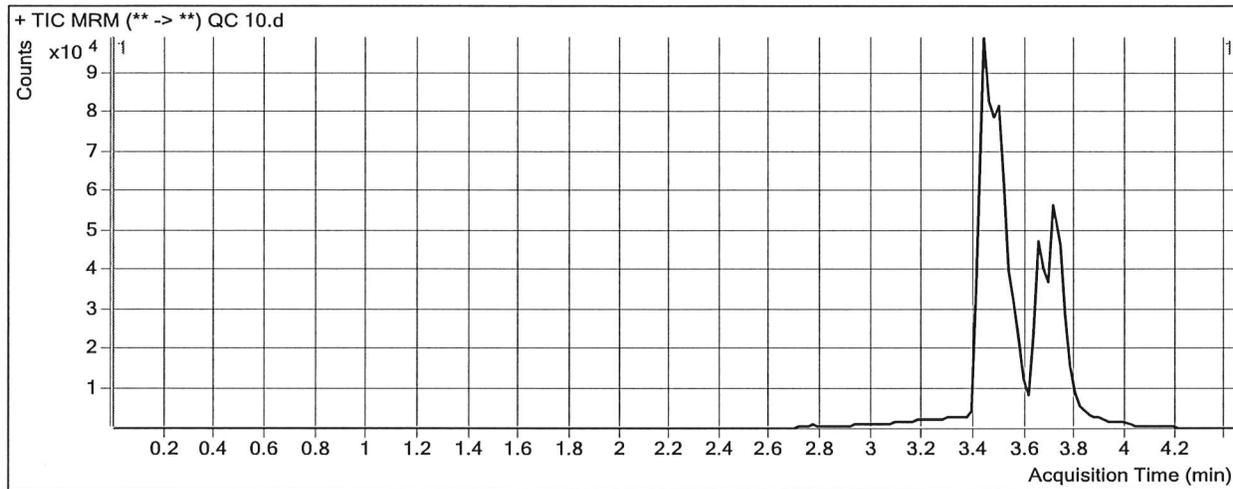
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin
Analysis Time 6/1/2017 4:30 PM **Analyst Name** ISP Tox
Report Time 6/1/2017 4:30 PM **Reporter Name** ISP Tox
Last Calib Update 6/1/2017 4:30 PM **Batch State** Processed

Analysis Info

Acq Time 2017-05-25 17:19 **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

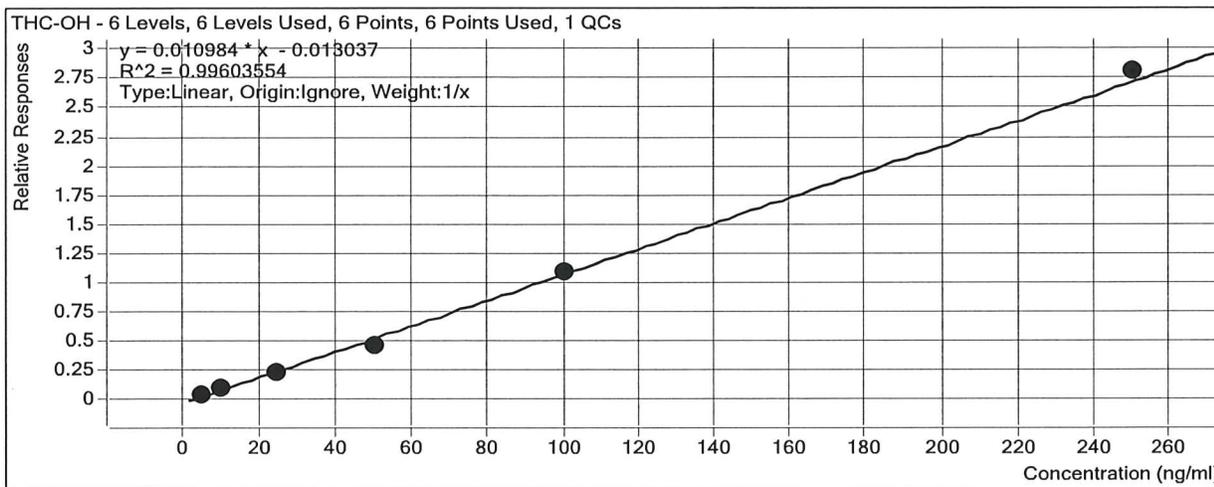
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.433	38651	427993	0.0903	9.4083
THC-COOH	3.506	25408	106320	0.2390	10.2571
THC	3.720	3764	37244	0.1011	9.7747

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin

Last Calib Update 6/1/2017 4:30 PM **Analyst Name** ISP TOX

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



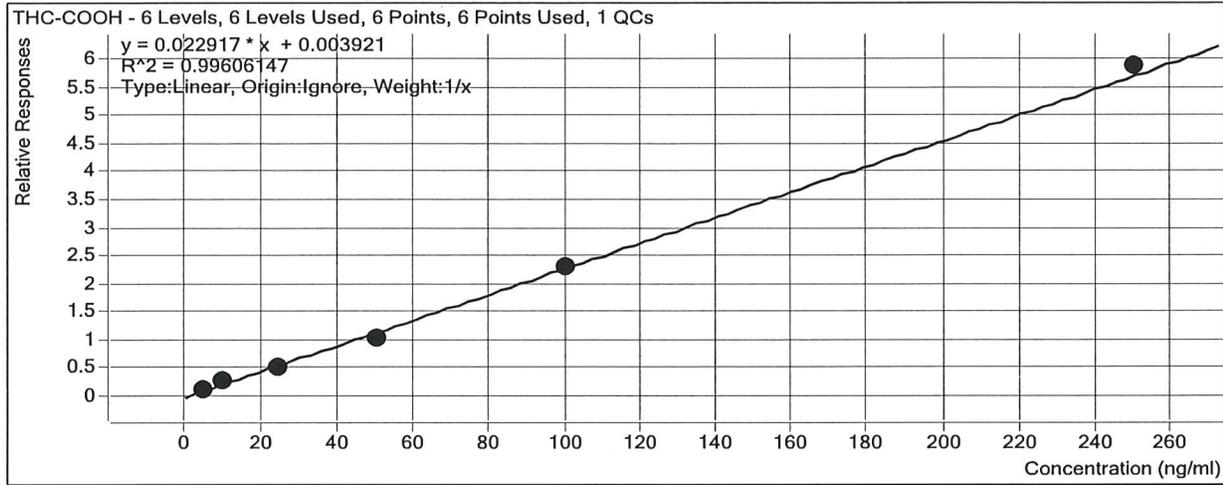
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.9	118.7
cal 3	3	<input checked="" type="checkbox"/>	10	9.9	99.1
QC 10	3	<input checked="" type="checkbox"/>	10	9.4	94.1
cal 4	4	<input checked="" type="checkbox"/>	25	22.8	91.3
cal 5	5	<input checked="" type="checkbox"/>	50	43.6	87.2
cal 6	6	<input checked="" type="checkbox"/>	100	101.1	101.1
cal 7	7	<input checked="" type="checkbox"/>	250	256.7	102.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin

Last Calib Update 6/1/2017 4:30 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	5.3	106.5
cal 3	3	<input checked="" type="checkbox"/>	10	11.3	112.9
QC 10	3	<input checked="" type="checkbox"/>	10	10.3	102.6
cal 4	4	<input checked="" type="checkbox"/>	25	22.3	89.4
cal 5	5	<input checked="" type="checkbox"/>	50	44.0	87.9
cal 6	6	<input checked="" type="checkbox"/>	100	100.9	100.9
cal 7	7	<input checked="" type="checkbox"/>	250	256.2	102.5

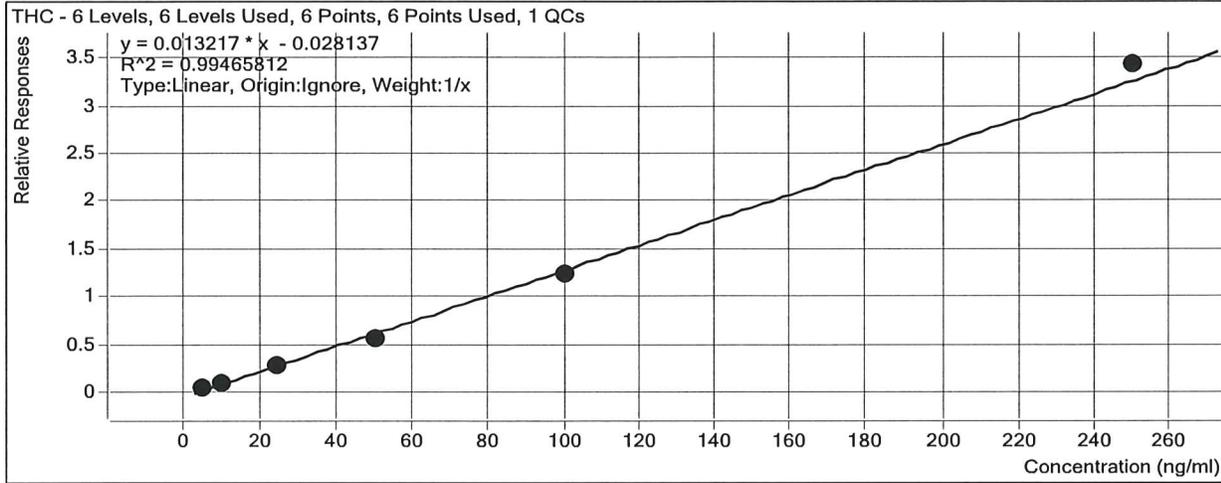
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\5-25-17 blood screen AM 25-26\QuantResults\52517 cann screen.batch.bin

Last Calib Update 6/1/2017 4:30 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	6.3	126.7
cal 3	3	<input checked="" type="checkbox"/>	10	9.2	92.5
QC 10	3	<input checked="" type="checkbox"/>	10	9.8	97.7
cal 4	4	<input checked="" type="checkbox"/>	25	22.8	91.0
cal 5	5	<input checked="" type="checkbox"/>	50	44.9	89.9
cal 6	6	<input checked="" type="checkbox"/>	100	95.4	95.4
cal 7	7	<input checked="" type="checkbox"/>	250	261.3	104.5