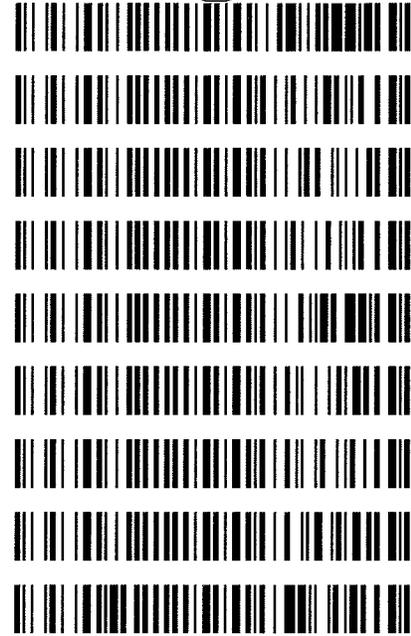


Worklist: 2039

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
C2017-1972	1	96362	AM 25/AM 26 Blood MultiDrug/
C2017-2114	1	97556	AM 25/AM 26 Blood MultiDrug/
C2017-2266	1	99429	AM 25/AM 26 Blood MultiDrug/
C2017-2278	1	99510	AM 25/AM 26 Blood MultiDrug/
C2017-2308	1	100062	AM 25/AM 26 Blood MultiDrug/
C2017-2328	1	100166	AM 25/AM 26 Blood MultiDrug/
C2017-2329	1	100168	AM 25/AM 26 Blood MultiDrug/
C2017-2352	1	100259	AM 25/AM 26 Blood MultiDrug/
M2017-5267	2	100232	AM 25/AM 26 Blood MultiDrug/

BWylee



[Handwritten signature]

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

Extraction Date: 11-20-17

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: 2017 Data / 112017 am 25-26 Batch Name: 112017 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 neg blood lot 321632-1 by Amn

Ppd 6-26-17 Exp 9-26-17 lot 92617 (may be listed as 92117) neg blood lot 321632-1 by Amn

ppd 9-22-17 Exp 12-22-17 Lot 12-22-17 neg blood lot 17J20718 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	MI	Transition	MI	S/N	Name	RT	Resp.
6-MAM	328.2 -> 165...	11/20/2017 11:33 AM	5.097	703	Infinity	328.2 -> 211...	Infinity	6-MAM-D6	5.056	24738		
7-Aminoclonazepam	286.1 -> 121...	11/20/2017 11:33 AM	5.511	17643	160.06	286.1 -> 222...	34.50	7-Aminoclonazepam-D4	5.510	71926		
Acetyl Fentanyl	323.2 -> 105...	11/20/2017 11:33 AM	5.933	10711	27.30	323.2 -> 188...	Infinity	Acetyl Fentanyl-D5	5.932	664776		
Acetyl Norfentanyl	219.1 -> 84.2	11/20/2017 11:33 AM	4.929	5894	126.55	219.1 -> 56.3	41.30	Acetyl Norfentanyl-D5	4.909	267155		
a-hydroxylprazolam	325.1 -> 297...	11/20/2017 11:33 AM	6.401	3629	17.10	325.1 -> 215...	5.31	a-hydroxylprazolam-D5	6.380	17151		
alpha-PVP	232.2 -> 91.0	11/20/2017 11:33 AM	5.641	65446	43.38	232.2 -> 77.1	35.49	alpha-PVP-d8	5.619	297565		
Alprazolam	309.1 -> 281...	11/20/2017 11:33 AM	6.487	28004	619.93	309.1 -> 205...	Infinity	Alprazolam-D5	6.486	101712		
Amphetamine	136.1 -> 91.1	11/20/2017 11:33 AM	4.891	64198	21.59	136.1 -> 119...	55.76	Amphetamine-D11	4.851	61781		
Bupropion	240.1 -> 184...	11/20/2017 11:33 AM	5.864	57670	164.52	240.1 -> 131...	2851...	Bupropion-D9	5.823	271547		
Carisoprodol	261.2 -> 176...	11/20/2017 11:33 AM	6.128	33740	43.34	261.2 -> 55.3	32.38	Carisoprodol-D7	6.127	200999		
Citalopram	325.2 -> 109...	11/20/2017 11:33 AM	6.116	101650	3327.77	325.2 -> 262...	80.92	Citalopram-D6	6.095	464380		
Clonazepam	316.1 -> 269...	11/20/2017 11:33 AM	6.342	11808	73.90	316.1 -> 213...	22.09	Clonazepam-D4	6.322	16550		
Codeine	300.2 -> 215...	11/20/2017 11:33 AM	5.020	3925	69.74	300.2 -> 165...	5.60	Codeine-D6	4.978	16276		
Cyclobenzaprine	276.2 -> 214...	11/20/2017 11:33 AM	6.411	64719	Infinity	276.2 -> 231...	48.55	Cyclobenzaprine-D3	6.410	287455		
Dextromethorphan	272.2 -> 171...	11/20/2017 11:33 AM	6.167	27659	85.87	272.2 -> 147...	56.86	Dextromethorphan-D3	6.167	134633		
Dextropropfan	258.2 -> 157...	11/20/2017 11:33 AM	5.474	22303	125.94	258.2 -> 133...	37.66	Dextropropfan-D3	5.474	123253		
Diazepam	285.1 -> 193...	11/20/2017 11:33 AM	6.713	19303	42.21	285.1 -> 153...	36.88	Diazepam-D5	6.712	91742		
Dihydrocodeine	302.2 -> 198...	11/20/2017 11:33 AM	4.898	11981	35.68	302.2 -> 128...	52.39	Dihydrocodeine-D6	4.856	58162		
Diphenhydramine	256.2 -> 167...	11/20/2017 11:33 AM	6.088	134553	126.10	256.2 -> 152...	87.14	Diphenhydramine-D3	6.087	781627		
Doxylamine	271.2 -> 182...	11/20/2017 11:33 AM	5.780	123301	43.13	271.2 -> 167...	110.67	Doxylamine-D5	5.758	642456		
EDDP	279.2 -> 235...	11/20/2017 11:33 AM	6.103	74984	285.82	279.2 -> 250...	3630...	EDDP-D3	6.103	31361		
Fentanyl	337.2 -> 105...	11/20/2017 11:33 AM	6.176	12557	13.90	337.2 -> 188...	107.83	Fentanyl-D5	6.155	611367		
Fluoxetine	310.1 -> 44.3	11/20/2017 11:33 AM	6.344	156970	485.33	310.1 -> 148...	Infinity	Oxycodone-D6	5.017	109538		
Hydrocodone	300.2 -> 198...	11/20/2017 11:33 AM	5.224	15561	Infinity	300.2 -> 128...	8719...	Hydrocodone-D6	5.182	84200		
Hydromorphone	286.2 -> 184...	11/20/2017 11:33 AM	4.660	9562	Infinity	286.2 -> 157...	Infinity	Hydromorphone-D6	4.619	35944		
Ketamine	238.1 -> 125...	11/20/2017 11:33 AM	5.681	40161	37.12	238.1 -> 220...	7.58	Ketamine-D4	5.660	146777		
Meperbamate	219.1 -> 158...	11/20/2017 11:33 AM	5.621	8552	8.56	219.1 -> 97.1	10.77	Meperbamate-D7	5.621	53587		
Methadone	310.2 -> 265...	11/20/2017 11:33 AM	6.425	114408	132.65	310.2 -> 105...	89.10	Methadone-D9	6.423	607934		
Methamphetamine	150.1 -> 91.1	11/20/2017 11:33 AM	5.052	35894	5.19	150.1 -> 119...	Infinity	Methamphetamine-D11	5.011	98843		
Morphine	286.2 -> 201...	11/20/2017 11:33 AM	4.399	2548	6.09	286.2 -> 165...	10.28	Morphine-D6	4.318	1625		
Naloxone	328.2 -> 309...	11/20/2017 11:33 AM	5.260	14040	119.88	328.2 -> 211...	Infinity	Naloxone-D5	5.178	95547		
Naltrexol	344.2 -> 326...	11/20/2017 11:33 AM	4.974	38070	64.94	344.2 -> 308...	78.61	Naltrexol-D3	4.973	138702		
Naltrexone	342.2 -> 324...	11/20/2017 11:33 AM	5.076	19639	134.14	342.2 -> 55.3	28.56	Naltrexone-D3	5.035	102551		
Norbuprenorphine	414.3 -> 101...	11/20/2017 11:33 AM	5.909	2523	168.42	414.3 -> 57.3	22.54	Norbuprenorphine-D3	5.888	14792		
Nordiazepam	271.1 -> 140...	11/20/2017 11:33 AM	6.575	13587	4527.56	271.1 -> 208...	34.45	Nordiazepam-D5	6.574	42962		
Norfentanyl	233.2 -> 84.2	11/20/2017 11:33 AM	5.375	76141	17596.66	233.2 -> 55.3	26.64	Norfentanyl-D5	5.375	343257		
Norhydrocodone	286.2 -> 199...	11/20/2017 11:33 AM	5.002	934	9.04	286.2 -> 171...	6.42	Norhydrocodone-D3	5.002	25055		
Noroxycodone	302.1 -> 284...	11/20/2017 11:33 AM	4.918	8848	9.93	302.1 -> 186...	Infinity	Noroxycodone-D3	4.917	51053		
O-desmethyl-tramadol	250.2 -> 58.3	11/20/2017 11:33 AM	4.966	100268	179.62	250.2 -> 42.3	15.32	O-desmethyl-tramadol...	4.945	439878		
Oxazepam	287.1 -> 240...	11/20/2017 11:33 AM	6.408	13715	4933.48	287.1 -> 268...	5.21	Oxazepam-D5	6.387	66442		
Oxycodone	316.2 -> 298...	11/20/2017 11:33 AM	5.038	22884	33.85	316.2 -> 241...	529.32	Oxycodone-D6	5.017	109538		
Oxymorphone	302.1 -> 284...	11/20/2017 11:33 AM	4.375	22403	41.73	302.1 -> 227...	237.17	Oxymorphone-D3	4.354	96544		

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	MI	Transition	MI	S/N	Name	RT	Resp.			
Phentermine	150.1 -> 65.2	11/20/2017 11:33 AM	5.174	7239	Infinity	<input checked="" type="checkbox"/>	150.1 -> 133...	<input checked="" type="checkbox"/>	Infinity	Phentermine-D5	5.174	128271			
Promethazine	285.1 -> 86.2	11/20/2017 11:33 AM	6.429	216186	30896.96	<input type="checkbox"/>	285.1 -> 71.3	<input type="checkbox"/>	130.70	Promethazine-D3	6.408	11400...			
Quetiapine	384.2 -> 253..	11/20/2017 11:33 AM	6.520	119466	194.78	<input type="checkbox"/>	384.2 -> 221...	<input type="checkbox"/>	376.29	Quetiapine-D8	6.478	164573			
Sertraline	306.1 -> 158..	11/20/2017 11:33 AM	6.609	41668	221.81	<input type="checkbox"/>	306.1 -> 275...	<input type="checkbox"/>	463.91	Sertraline-D3	6.608	208920			
Sufentanil	387.2 -> 238..	11/20/2017 11:33 AM	6.519	11071	87.05	<input type="checkbox"/>	387.2 -> 111...	<input type="checkbox"/>	55.87	Sufentanil-D5	6.498	412398			
Temazepam	301.1 -> 255..	11/20/2017 11:33 AM	6.529	41338	111.44	<input type="checkbox"/>	301.1 -> 283...	<input type="checkbox"/>	10.78	Temazepam-D5	6.528	201193			
Tramadol	264.2 -> 58.3	11/20/2017 11:33 AM	5.494	135037	92.45	<input type="checkbox"/>	264.2 -> 43.3	<input checked="" type="checkbox"/>	Infinity	Tramadol-13C-D3	5.473	601900			
Trazodone	372.2 -> 176..	11/20/2017 11:33 AM	6.661	115509	868.49	<input type="checkbox"/>	372.2 -> 148...	<input type="checkbox"/>	554.71	Trazodone-D6	6.621	493950			
Venlafaxine	278.2 -> 58.3	11/20/2017 11:33 AM	5.859	133408	190.81	<input type="checkbox"/>	278.2 -> 260...	<input type="checkbox"/>	52.38	Venlafaxine-D6	5.838	555538			
Zolpidem	308.2 -> 235..	11/20/2017 11:33 AM	6.304	110823	141.63	<input type="checkbox"/>	308.2 -> 263...	<input type="checkbox"/>	177.66	Zolpidem-D6	6.302	562199			

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...	11/20/2017 11:52 AM					328.2 -> 211...			6-MAM-D6	5.056	27879
7-aminoclonazepam	286.1 -> 121...	11/20/2017 11:52 AM					286.1 -> 222...			7-Aminoclonazepam-D4	5.510	68933
Acetyl Fentanyl	323.2 -> 105...	11/20/2017 11:52 AM					323.2 -> 188...			Acetyl Fentanyl-D5	5.932	836531
Acetyl Norfentanyl	219.1 -> 84.2	11/20/2017 11:52 AM					219.1 -> 56.3			Acetyl Norfentanyl-D5	4.909	303294
a-hydroxyalprazolam	325.1 -> 297...	11/20/2017 11:52 AM					325.1 -> 215...			a-hydroxyalprazolam-D5	6.380	21941
alpha-PVP	232.2 -> 91.0	11/20/2017 11:52 AM					232.2 -> 77.1			alpha-PVP-d8	5.619	368562
Alprazolam	309.1 -> 281...	11/20/2017 11:52 AM					309.1 -> 205...			Alprazolam-D5	6.466	126205
Amphetamine	136.1 -> 91.1	11/20/2017 11:52 AM	4.952	22303	18.90		136.1 -> 119...			Amphetamine-D11	4.851	65011
Bupropion	240.1 -> 184...	11/20/2017 11:52 AM					240.1 -> 131...			Bupropion-D9	5.843	336921
Carisoprodol	261.2 -> 176...	11/20/2017 11:52 AM					261.2 -> 55.3			Carisoprodol-D7	6.127	224587
Clonazepam	325.2 -> 109...	11/20/2017 11:52 AM					325.2 -> 262...			Citalopram-D6	6.115	556382
Codeine	316.1 -> 269...	11/20/2017 11:52 AM					316.1 -> 213...			Clonazepam-D4	6.321	20533
Cyclobenzaprine	276.2 -> 214...	11/20/2017 11:52 AM	5.020	36555	10074.04		300.2 -> 165...		461.53	Codeine-D6	4.978	19716
Dextromethorphan	272.2 -> 171...	11/20/2017 11:52 AM	6.431	281	86.27		276.2 -> 231...			Cyclobenzaprine-D3	6.410	353645
Diazepam	258.2 -> 157...	11/20/2017 11:52 AM					272.2 -> 147...			Dextromethorphan-D3	6.167	169011
Dihydrocodeine	302.2 -> 198...	11/20/2017 11:52 AM					258.2 -> 133...			Dextropran-D3	5.474	162813
Doxylamine	271.2 -> 182...	11/20/2017 11:52 AM	6.087	23301...	899.96		285.1 -> 153...			Diazepam-D5	6.712	118071
EDDP	279.2 -> 235...	11/20/2017 11:52 AM					302.2 -> 128...		800.01	Dihydrocodeine-D6	4.876	72573
Fentanyl	337.2 -> 105...	11/20/2017 11:52 AM	6.602	539	0.89		256.2 -> 152...			Diphenhydramine-D3	6.087	933458
Fluoxetine	310.1 -> 44.3	11/20/2017 11:52 AM					271.2 -> 167...			Doxylamine-D5	5.758	813585
Hydrocodone	300.2 -> 198...	11/20/2017 11:52 AM	5.020	20714	Infinity		279.2 -> 250...			EDDP-D3	6.103	33369
Hydromorphone	286.2 -> 184...	11/20/2017 11:52 AM					310.1 -> 148...			Fentanyl-D5	6.155	758373
Ketamine	238.1 -> 125...	11/20/2017 11:52 AM					300.2 -> 128...		Infinity	Oxycodone-D6	5.017	141612
Meprobramate	219.1 -> 158...	11/20/2017 11:52 AM					286.2 -> 157...			Hydrocodone-D6	5.182	104656
Methadone	310.2 -> 265...	11/20/2017 11:52 AM					238.1 -> 220...			Hydromorphone-D6	4.619	40659
Methamphetamine	150.1 -> 91.1	11/20/2017 11:52 AM					150.1 -> 97.1			Ketamine-D4	5.660	195074
Morphine	286.2 -> 201...	11/20/2017 11:52 AM	4.379	53847	433.08		310.2 -> 105...			Meprobramate-D7	5.621	66610
Naloxone	328.2 -> 309...	11/20/2017 11:52 AM					286.2 -> 165...		1473...	Methadone-D9	6.423	731630
Naltrexol	344.2 -> 326...	11/20/2017 11:52 AM					150.1 -> 119...			Morphine-D6	4.338	1531
Naltrexone	342.2 -> 324...	11/20/2017 11:52 AM					328.2 -> 211...			Naloxone-D5	5.198	118610
Norbuprenorphine	414.3 -> 101...	11/20/2017 11:52 AM					344.2 -> 308...			Naltrexol-D3	4.973	176219
Nordiazepam	271.1 -> 140...	11/20/2017 11:52 AM					342.2 -> 55.3			Naltrexone-D3	5.035	121156
Norfentanyl	233.2 -> 84.2	11/20/2017 11:52 AM					414.3 -> 57.3			Norbuprenorphine-D3	5.868	18140
Norhydrocodone	286.2 -> 199...	11/20/2017 11:52 AM					271.1 -> 208...			Nordiazepam-D5	6.574	53914
Noroxycodone	302.1 -> 284...	11/20/2017 11:52 AM					233.2 -> 55.3			Norfentanyl-D5	5.374	452998
O-desmethyl-tramadol	250.2 -> 58.3	11/20/2017 11:52 AM	4.946	970	2.88		286.2 -> 171...			Norhydrocodone-D3	5.002	30627
Oxazepam	287.1 -> 240...	11/20/2017 11:52 AM					302.1 -> 186...			Noroxycodone-D3	4.917	58778
Oxycodone	316.2 -> 298...	11/20/2017 11:52 AM					250.2 -> 42.3		1.54	O-desmethyl-tramadol...	4.945	577391
Oxymorphone	302.1 -> 284...	11/20/2017 11:52 AM					287.1 -> 268...			Oxazepam-D5	6.387	86646
							316.2 -> 241...			Oxycodone-D6	5.017	141612
							302.1 -> 227...			Oxymorphone-D3	4.354	104563

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.			
Phentermine	150.1 -> 65.2	11/20/2017 11:52 AM	5.357	1785	2.95	1	150.1 -> 133...	1		Phentermine-D5	5.174	199804			
Promethazine	285.1 -> 86.2	11/20/2017 11:52 AM	6.429	580	1.70	1	285.1 -> 71.3	1		Promethazine-D3	6.408	14060...			
Quetiapine	384.2 -> 253...	11/20/2017 11:52 AM	6.882	271	0.72	1	384.2 -> 221...	1		Quetiapine-D8	6.478	196981			
Sertraline	306.1 -> 158...	11/20/2017 11:52 AM				1	306.1 -> 275...	1		Sertraline-D3	6.608	233037			
Sufentanil	387.2 -> 238...	11/20/2017 11:52 AM				1	387.2 -> 111...	1		Sufentanil-D5	6.498	492714			
Temazepam	301.1 -> 255...	11/20/2017 11:52 AM				1	301.1 -> 283...	1		Temazepam-D5	6.528	245172			
Tramadol	264.2 -> 58.3	11/20/2017 11:52 AM				1	264.2 -> 43.3	1		Tramadol-13C-D3	5.473	772858			
Trazodone	372.2 -> 176...	11/20/2017 11:52 AM				1	372.2 -> 148...	1		Trazodone-D6	6.621	636681			
Venlafaxine	278.2 -> 58.3	11/20/2017 11:52 AM				1	278.2 -> 260...	1		Venlafaxine-D6	5.838	730895			
Zolpidem	308.2 -> 235...	11/20/2017 11:52 AM	6.609	706	3.15	1	308.2 -> 263...	1		Zolpidem-D6	6.282	755876			

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...		Qualifie...		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..	11/20/2017 3:06 PM					328.2 -> 211..			6-MAM-D6	5.055	28414		
7-Aminoclonazepam	286.1 -> 121..	11/20/2017 3:06 PM					286.1 -> 222..			7-Aminoclonazepam-D4	5.510	88317		
Acetyl Fentanyl	323.2 -> 105..	11/20/2017 3:06 PM					323.2 -> 188..			Acetyl Fentanyl-D5	5.931	719649		
Acetyl Norfentanyl	219.1 -> 84.2	11/20/2017 3:06 PM					219.1 -> 56.3			Acetyl Norfentanyl-D5	4.909	280160		
a-hydroxyalprazolam	325.1 -> 297..	11/20/2017 3:06 PM					325.1 -> 215..			a-hydroxyalprazolam-D5	6.378	18133		
alpha-PVP	232.2 -> 91.0	11/20/2017 3:06 PM					232.2 -> 77.1			alpha-PVP-d8	5.619	350258		
Alprazolam	309.1 -> 281..	11/20/2017 3:06 PM					309.1 -> 205..			Alprazolam-D5	6.484	115559		
Amphetamine	136.1 -> 91.1	11/20/2017 3:06 PM	4.952	13645	7.56		136.1 -> 119..			Amphetamine-D11	4.850	70498		
Bupropion	240.1 -> 184..	11/20/2017 3:06 PM					240.1 -> 131..			Bupropion-D9	5.843	330995		
Carisoprodol	261.2 -> 176..	11/20/2017 3:06 PM					261.2 -> 55.3			Carisoprodol-D7	6.126	225716		
Chlorthalidone	325.2 -> 109..	11/20/2017 3:06 PM					325.2 -> 262..			Chlorthalidone-D6	6.113	505271		
Clonazepam	316.1 -> 269..	11/20/2017 3:06 PM					316.1 -> 213..			Clonazepam-D4	6.340	16686		
Codeine	300.2 -> 215..	11/20/2017 3:06 PM					300.2 -> 165..			Codeine-D6	4.998	18054		
Cyclobenzaprine	276.2 -> 214..	11/20/2017 3:06 PM					276.2 -> 231..			Cyclobenzaprine-D3	6.429	307022		
Dextromethorphan	272.2 -> 171..	11/20/2017 3:06 PM					272.2 -> 147..			Dextromethorphan-D3	6.166	146274		
Dextroproprian	258.2 -> 157..	11/20/2017 3:06 PM					258.2 -> 133..			Dextroproprian-D3	5.473	139009		
Diazepam	285.1 -> 193..	11/20/2017 3:06 PM					285.1 -> 153..			Diazepam-D5	6.710	107827		
Dihydrocodeine	302.2 -> 198..	11/20/2017 3:06 PM					302.2 -> 128..			Dihydrocodeine-D6	4.876	60847		
Diphenhydramine	256.2 -> 167..	11/20/2017 3:06 PM					256.2 -> 152..			Diphenhydramine-D3	6.086	833621		
Doxylamine	271.2 -> 182..	11/20/2017 3:06 PM					271.2 -> 167..			Doxylamine-D5	5.757	698515		
EDDP	279.2 -> 235..	11/20/2017 3:06 PM					279.2 -> 250..			EDDP-D3	6.123	24424		
Fentanyl	337.2 -> 105..	11/20/2017 3:06 PM					337.2 -> 188..			Fentanyl-D5	6.154	697113		
Fluoxetine	310.1 -> 44.3	11/20/2017 3:06 PM					310.1 -> 148..			Oxycodone-D6	5.017	125288		
Hydrocodone	300.2 -> 198..	11/20/2017 3:06 PM					300.2 -> 128..			Hydrocodone-D6	5.202	89286		
Hydromorphone	286.2 -> 184..	11/20/2017 3:06 PM					286.2 -> 157..			Hydromorphone-D6	4.618	32724		
Ketamine	238.1 -> 125..	11/20/2017 3:06 PM					238.1 -> 220..			Ketamine-D4	5.660	188770		
Meperbamate	219.1 -> 158..	11/20/2017 3:06 PM					219.1 -> 97.1			Meperbamate-D7	5.600	55469		
Methadone	310.2 -> 265..	11/20/2017 3:06 PM					310.2 -> 105..			Methadone-D9	6.422	603029		
Methamphetamine	150.1 -> 91.1	11/20/2017 3:06 PM					150.1 -> 119..			Methamphetamine-D11	5.031	158933		
Morphine	286.2 -> 201..	11/20/2017 3:06 PM					286.2 -> 165..			Morphine-D6	4.337	1382		
Naloxone	328.2 -> 309..	11/20/2017 3:06 PM					328.2 -> 211..			Naloxone-D5	5.198	102490		
Naltrexol	344.2 -> 326..	11/20/2017 3:06 PM					344.2 -> 308..			Naltrexol-D3	4.973	159487		
Naltrexone	342.2 -> 324..	11/20/2017 3:06 PM					342.2 -> 55.3			Naltrexone-D3	5.054	99360		
Norbuprenorphine	414.3 -> 101..	11/20/2017 3:06 PM					414.3 -> 57.3			Norbuprenorphine-D3	5.887	17545		
Nordiazepam	271.1 -> 140..	11/20/2017 3:06 PM					271.1 -> 208..			Nordiazepam-D5	6.573	49446		
Norfentanyl	233.2 -> 84.2	11/20/2017 3:06 PM					233.2 -> 55.3			Norfentanyl-D5	5.374	393985		
Norhydrocodone	286.2 -> 199..	11/20/2017 3:06 PM					286.2 -> 171..			Norhydrocodone-D3	5.002	28221		
Noroxycodone	302.1 -> 284..	11/20/2017 3:06 PM					302.1 -> 186..			Noroxycodone-D3	4.916	58518		
O-desmethyl-tramadol	250.2 -> 58.3	11/20/2017 3:06 PM	4.966	885	2.63		250.2 -> 42.3		0.20	O-desmethyl-tramadol-...	4.945	496558		
Oxazepam	287.1 -> 240..	11/20/2017 3:06 PM					287.1 -> 268..			Oxazepam-D5	6.386	78346		
Oxycodone	316.2 -> 298..	11/20/2017 3:06 PM					316.2 -> 241..			Oxycodone-D6	5.017	125288		
Oxymorphone	302.1 -> 284..	11/20/2017 3:06 PM					302.1 -> 227..			Oxymorphone-D3	4.353	91866		

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.		
Phentermine	150.1 -> 65.2	11/20/2017 3:06 PM					150.1 -> 133...			Phentermine-D5	5.173	182591		
Promethazine	285.1 -> 86.2	11/20/2017 3:06 PM					285.1 -> 71.3			Promethazine-D3	6.427	11590...		
Quetiapine	384.2 -> 253...	11/20/2017 3:06 PM					384.2 -> 221...			Quetiapine-D8	6.497	179834		
Sertraline	306.1 -> 158...	11/20/2017 3:06 PM					306.1 -> 275...			Sertraline-D3	6.607	195849		
Sufentanil	387.2 -> 238...	11/20/2017 3:06 PM					387.2 -> 111...			Sufentanil-D5	6.497	434756		
Temazepam	301.1 -> 255...	11/20/2017 3:06 PM					301.1 -> 283...			Temazepam-D5	6.527	232337		
Tramadol	264.2 -> 58.3	11/20/2017 3:06 PM					264.2 -> 43.3			Tramadol-13C-D3	5.493	700110		
Trazodone	372.2 -> 176...	11/20/2017 3:06 PM					372.2 -> 148...			Trazodone-D6	6.620	539676		
Venlafaxine	278.2 -> 58.3	11/20/2017 3:06 PM					278.2 -> 260...			Venlafaxine-D6	5.857	615530		
Zolpidem	308.2 -> 235...	11/20/2017 3:06 PM	6.587	1109	0.41		308.2 -> 263...			Zolpidem-D6	6.301	626580		

Compound Method		p2 cal 1-2b			p2 cal 1-2b 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.					
7-aminoflunitrazepam	284.1 -> 135..	11/20/2017 11:43 AM	5.700	19789	7492.05	284.1 -> 93.2	89.00	7-aminoflunitrazepam-D7	5.699	102064							
alpha-hydroxymidazolam	342.1 -> 324..	11/20/2017 11:43 AM	6.468	30783	378.03	342.1 -> 203..	203.77	alpha-hydroxymidazolam-..	6.468	166121							
Amtripyline	278.2 -> 91.2	11/20/2017 11:43 AM	6.519	133798	Infinity	278.2 -> 105..	Infinity	Amtripyline-D3	6.497	297463							
Amoxapine	314.1 -> 271..	11/20/2017 11:43 AM	6.472	29946	139.29	314.1 -> 193..	Infinity	Amtripyline-D3	6.497	297463							
Benzoyllecgonine	290.1 -> 168..	11/20/2017 11:43 AM	5.312	9986	6376.78	290.1 -> 105..	129.61	Benzoyllecgonine-D8	5.310	3716							
Carbamazepine	237.1 -> 193..	11/20/2017 11:43 AM	6.137	15070	Infinity	237.1 -> 194..	1589....	Carbamazepine-13C6	6.136	681154							
Chlordiazepoxide	300.1 -> 227..	11/20/2017 11:43 AM	6.616	17053	86.61	300.1 -> 282..	37.84	Chlordiazepoxide-D5	6.595	122571							
Clozapine	315.2 -> 86.2	11/20/2017 11:43 AM	6.735	182536	Infinity	315.2 -> 58.3	143.97	Clozapine-D3	6.715	933087							
Cocaine	304.2 -> 182..	11/20/2017 11:43 AM	5.657	72192	219.28	304.2 -> 105..	18.30	Cocaine-D3	5.656	323092							
Desipramine	267.2 -> 72.3	11/20/2017 11:43 AM	6.418	131905	Infinity	267.2 -> 44.3	4438....	Desipramine-D3	6.418	707575							
Doxepin	280.2 -> 107..	11/20/2017 11:43 AM	6.233	68550	Infinity	280.2 -> 77.2	13.92	Doxepin-D3	6.211	325707							
Estazolam	295.1 -> 267..	11/20/2017 11:43 AM	6.414	22803	192.45	295.1 -> 205..	5957....	Estazolam-D5	6.392	129378							
Flunitrazepam	314.1 -> 268..	11/20/2017 11:43 AM	6.242	22802	29.28	314.1 -> 239..	90.27	Flunitrazepam-D7	6.430	4810							
Flurazepam	388.2 -> 315..	11/20/2017 11:43 AM	6.242	79619	1808.35	388.2 -> 317..	2377....	Zopiclone-D4	6.242	105083							
Imipramine	281.2 -> 86.2	11/20/2017 11:43 AM	6.457	218393	469.21	281.2 -> 58.3	Infinity	Imipramine-D3	6.456	624007							
Levamisole	205.1 -> 91.2	11/20/2017 11:43 AM	5.142	26410	Infinity	205.1 -> 178..	Infinity	Cocaine-D3	5.656	323092							
Maprotiline	278.2 -> 91.2	11/20/2017 11:43 AM	6.519	133798	Infinity	278.2 -> 117..	Infinity	Meperidine-D4	5.686	139894							
MDA	180.1 -> 163..	11/20/2017 11:43 AM	5.024	20516	394.91	180.1 -> 105..	1858....	MDA-D5	5.023	106183							
MDEA	208.1 -> 163..	11/20/2017 11:43 AM	5.303	54177	497.61	208.1 -> 105..	Infinity	MDEA-D6	5.282	251684							
MDMA	194.1 -> 163..	11/20/2017 11:43 AM	5.144	44125	Infinity	194.1 -> 105..	359.86	MDMA-D6	5.143	24788							
Meperidine	248.2 -> 220..	11/20/2017 11:43 AM	5.707	29851	58.32	248.2 -> 174..	21.00	Meperidine-D4	5.686	139894							
Methylphenidate	234.2 -> 84.2	11/20/2017 11:43 AM	5.587	161361	Infinity	234.2 -> 56.3	Infinity	Meperidine-D4	5.686	139894							
Metoprolol	268.2 -> 116..	11/20/2017 11:43 AM	5.479	14669	24745....	268.2 -> 56.3	156.31	Meperidine-D4	5.686	139894							
Midazolam	326.1 -> 223..	11/20/2017 11:43 AM	6.632	12396	95.36	326.1 -> 249..	81.27	Midazolam-D4	6.611	198585							
Mirtazapine	266.2 -> 195..	11/20/2017 11:43 AM	6.093	87626	61.01	266.2 -> 72.3	26.67	Midazolam-D4	6.611	198585							
Mirtazapine	399.2 -> 174..	11/20/2017 11:43 AM	6.241	31836	5514.31	399.2 -> 238..	2907....	Carbamazepine-13C6	6.136	681154							
Normeperidine	234.1 -> 42.3	11/20/2017 11:43 AM	5.648	32634	23.28	234.1 -> 160..	115.16	Normeperidine-D4	5.647	119629							
Norpropoxyphene	326.2 -> 44.3	11/20/2017 11:43 AM	6.286	22321	159.75	326.2 -> 252..	16.47	Norpropoxyphene-D5	6.265	97944							
Nortriptyline	264.2 -> 91.2	11/20/2017 11:43 AM	6.358	216430	221.97	264.2 -> 233..	1820....	Nortriptyline-D3	6.459	221387							
Ondansetron	294.2 -> 184..	11/20/2017 11:43 AM	5.904	48040	7886.60	294.2 -> 212..	65.31	Pentazocine-13C3	5.721	245484							
Pentazocine	286.2 -> 218..	11/20/2017 11:43 AM	5.721	54231	Infinity	286.2 -> 41.3	160.62	Pentazocine-13C3	5.721	245484							
Phenazepam	349.0 -> 206..	11/20/2017 11:43 AM	6.508	25692	5194.83	349.0 -> 183..	144.47	Phenazepam-D4	6.507	8804							
Phencyclidine	244.2 -> 86.2	11/20/2017 11:43 AM	5.973	100284	46098....	244.2 -> 91.1	Infinity	Phencyclidine-D5	5.952	566335							
Phenylethanolamine	253.1 -> 104..	11/20/2017 11:43 AM	6.053	1785	25.09	253.1 -> 182..	Infinity	Phenylethanolamine-D10	6.033	8039							
Prazepam	325.1 -> 271..	11/20/2017 11:43 AM	6.956	93431	1844.96	325.1 -> 140..	320.01	Prazepam-D5	6.955	413383							
Pirindone	219.1 -> 91.2	11/20/2017 11:43 AM	5.405	5245	11.55	219.1 -> 162..	49.28	Prazepam-D5	6.955	413383							
Propoxyphene	340.2 -> 58.3	11/20/2017 11:43 AM	6.326	142990	119.16	340.2 -> 266..	64.93	Propoxyphene-D11	6.304	139543							
Protriptyline	264.2 -> 155..	11/20/2017 11:43 AM	6.358	290007	1399.07	264.2 -> 161..	Infinity	Nortriptyline-D3	6.459	221387							
Pseudoephedrine	166.1 -> 148..	11/20/2017 11:43 AM	4.702	393122	1146.26	166.1 -> 133..	316.32	Pseudoephedrine-D3	4.701	209815							
Tapentadol	222.2 -> 107..	11/20/2017 11:43 AM	5.506	77086	345.87	222.2 -> 121..	255.56	Tapentadol-D3	5.506	396587							
Trimipramine	295.2 -> 100..	11/20/2017 11:43 AM	6.556	247632	Infinity	295.2 -> 58.3	Infinity	Trimipramine-D3	6.536	11649...							
Verapamil	455.3 -> 165..	11/20/2017 11:43 AM	6.261	100348	20310....	455.3 -> 150..	83.20	Trimipramine-D3	6.536	11649...							
Zaleplon	306.1 -> 236..	11/20/2017 11:43 AM	6.228	28346	245.78	306.1 -> 264..	181.92	Zaleplon-D4	6.227	100666							
Zopiclone	389.1 -> 244..	11/20/2017 11:43 AM	6.242	8729	28.13	389.1 -> 216..	15.96	Zopiclone-D4	6.242	105083							

Compound Method		p2 external control		p2 external control Results		Qualifier 1 M...		Qualifier ...		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...	11/20/2017 12:02 PM					284.1 -> 93.2			7-aminoflunitrazepam-D7	5.699	110902	
alpha-hydroxymidazolam	342.1 -> 324...	11/20/2017 12:02 PM					342.1 -> 203...			alpha-hydroxymidazolam-...	6.468	211036	
Amtripyline	278.2 -> 91.2	11/20/2017 12:02 PM	6.519	13069...	Infinity		278.2 -> 105...		Infinit...	Amtripyline-D3	6.518	308336	
Amoxapine	314.1 -> 271...	11/20/2017 12:02 PM					314.1 -> 193...			Amtripyline-D3	6.518	308336	
Benzylecgonine	290.1 -> 168...	11/20/2017 12:02 PM					290.1 -> 105...			Benzylecgonine-D8	5.289	4273	
Carbamazepine	237.1 -> 193...	11/20/2017 12:02 PM					237.1 -> 194...			Carbamazepine-13C6	6.136	794328	
Chlordiazepoxide	300.1 -> 227...	11/20/2017 12:02 PM					300.1 -> 282...			Chlordiazepoxide-D5	6.595	171239	
Clomipramine	315.2 -> 86.2	11/20/2017 12:02 PM					315.2 -> 58.3			Clomipramine-D3	6.715	10413...	
Cocaine	304.2 -> 182...	11/20/2017 12:02 PM					304.2 -> 105...			Cocaine-D3	5.656	412348	
Desipramine	267.2 -> 72.3	11/20/2017 12:02 PM					267.2 -> 44.3			Desipramine-D3	6.418	895641	
Doxepin	280.2 -> 107...	11/20/2017 12:02 PM					280.2 -> 77.2			Doxepin-D3	6.211	405976	
Estazolam	295.1 -> 267...	11/20/2017 12:02 PM					295.1 -> 205...			Estazolam-D5	6.392	168986	
Flunitrazepam	314.1 -> 268...	11/20/2017 12:02 PM					314.1 -> 239...			Flunitrazepam-D7	6.430	6799	
Flurazepam	388.2 -> 315...	11/20/2017 12:02 PM					388.2 -> 317...			Zopiclone-D4	6.242	121651	
Imipramine	281.2 -> 86.2	11/20/2017 12:02 PM					281.2 -> 58.3			Imipramine-D3	6.456	722602	
Levamisole	205.1 -> 91.2	11/20/2017 12:02 PM					205.1 -> 178...			Cocaine-D3	5.656	412348	
Maprotiline	278.2 -> 91.2	11/20/2017 12:02 PM	6.519	12905...	Infinity		278.2 -> 117...		Infinit...	Meperidine-D4	5.706	206475	
MDA	180.1 -> 163...	11/20/2017 12:02 PM					180.1 -> 105...			MDA-D5	5.023	118868	
MDEA	208.1 -> 163...	11/20/2017 12:02 PM					208.1 -> 105...			MDEA-D6	5.282	330797	
MDMA	194.1 -> 163...	11/20/2017 12:02 PM					194.1 -> 105...			MDMA-D6	5.143	32073	
Meperidine	248.2 -> 220...	11/20/2017 12:02 PM					248.2 -> 174...			Meperidine-D4	5.706	206475	
Methylphenidate	234.2 -> 84.2	11/20/2017 12:02 PM					234.2 -> 56.3			Meperidine-D4	5.706	206475	
Metoprolol	268.2 -> 116...	11/20/2017 12:02 PM					268.2 -> 56.3			Meperidine-D4	5.706	206475	
Midazolam	326.1 -> 223...	11/20/2017 12:02 PM					326.1 -> 249...			Midazolam-D4	6.631	242369	
Mirtazapine	266.2 -> 195...	11/20/2017 12:02 PM	6.113	10577...	148.24		266.2 -> 72.3		Infinit...	Midazolam-D4	6.631	242369	
Mitragyline	399.2 -> 174...	11/20/2017 12:02 PM					399.2 -> 238...			Carbamazepine-13C6	6.136	794328	
Normeperidine	234.1 -> 42.3	11/20/2017 12:02 PM					234.1 -> 160...			Normeperidine-D4	5.647	153772	
Norpropoxyphene	326.2 -> 44.3	11/20/2017 12:02 PM					326.2 -> 252...			Norpropoxyphene-D5	6.265	119659	
Nortriptyline	264.2 -> 91.2	11/20/2017 12:02 PM					264.2 -> 233...			Nortriptyline-D3	6.459	265291	
Ondansetron	294.2 -> 184...	11/20/2017 12:02 PM					294.2 -> 212...			Pentazocine-13C3	5.721	325722	
Pentazocine	286.2 -> 218...	11/20/2017 12:02 PM					286.2 -> 41.3			Pentazocine-13C3	5.721	325722	
Phenazepam	349.0 -> 206...	11/20/2017 12:02 PM					349.0 -> 183...			Phenazepam-D4	6.507	11878	
Phencyclidine	244.2 -> 86.2	11/20/2017 12:02 PM					244.2 -> 91.1			Phencyclidine-D5	5.952	644379	
Phenyloln	253.1 -> 104...	11/20/2017 12:02 PM					253.1 -> 182...			Phenyloln-D10	6.033	8737	
Prazepam	325.1 -> 271...	11/20/2017 12:02 PM					325.1 -> 140...			Prazepam-D5	6.955	540595	
Prinidone	219.1 -> 91.2	11/20/2017 12:02 PM					219.1 -> 162...			Prazepam-D5	6.955	540595	
Propoxyphene	340.2 -> 58.3	11/20/2017 12:02 PM					340.2 -> 266...			Propoxyphene-D11	6.304	158124	
Protriptyline	264.2 -> 155...	11/20/2017 12:02 PM					264.2 -> 161...			Nortriptyline-D3	6.459	265291	
Pseudoephedrine	166.1 -> 148...	11/20/2017 12:02 PM					166.1 -> 133...			Pseudoephedrine-D3	4.680	264575	
Tapentadol	222.2 -> 107...	11/20/2017 12:02 PM					222.2 -> 121...			Tapentadol-D3	5.506	484538	
Trimipramine	295.2 -> 100...	11/20/2017 12:02 PM					295.2 -> 58.3			Trimipramine-D3	6.536	13314...	
Verapamil	455.3 -> 165...	11/20/2017 12:02 PM					455.3 -> 150...			Trimipramine-D3	6.536	13314...	
Zaleplon	306.1 -> 236...	11/20/2017 12:02 PM					306.1 -> 264...			Zaleplon-D4	6.227	137544	
Zopiclone	389.1 -> 244...	11/20/2017 12:02 PM					389.1 -> 216...			Zopiclone-D4	6.242	121651	

ok cannot
differentiate
meperidine
and
amitriptyline
in this
method

Compound Method		p2 negative		p2 negative Results				ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Qualifier 1 M...	Qualifier...	Name	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	11/20/2017 3:16 PM					284.1 -> 93.2		7-aminoflunitrazepam-D7	5.699	120209
alpha-hydroxymidazolam	342.1 -> 324...	11/20/2017 3:16 PM					342.1 -> 203...		alpha-hydroxymidazolam-...	6.468	185616
Amtripyline	278.2 -> 91.2	11/20/2017 3:16 PM					278.2 -> 105...		Amtripyline-D3	6.518	286500
Amoxapine	314.1 -> 271...	11/20/2017 3:16 PM					314.1 -> 193...		Amtripyline-D3	6.518	286500
Benzoylcegonine	290.1 -> 168...	11/20/2017 3:16 PM					290.1 -> 105...		Benzoylcegonine-D8	5.289	3952
Carbamazepine	237.1 -> 193...	11/20/2017 3:16 PM					237.1 -> 194...		Carbamazepine-13C6	6.136	742786
Chlordiazepoxide	300.1 -> 227...	11/20/2017 3:16 PM					300.1 -> 282...		Chlordiazepoxide-D5	6.595	168476
Clomipramine	315.2 -> 86.2	11/20/2017 3:16 PM					315.2 -> 58.3		Clomipramine-D3	6.735	953246
Cocaine	304.2 -> 182...	11/20/2017 3:16 PM					304.2 -> 105...		Cocaine-D3	5.656	354603
Desipramine	267.2 -> 72.3	11/20/2017 3:16 PM					267.2 -> 44.3		Desipramine-D3	6.418	813089
Doxepin	280.2 -> 107...	11/20/2017 3:16 PM					280.2 -> 77.2		Doxepin-D3	6.232	351150
Estazolam	295.1 -> 267...	11/20/2017 3:16 PM					295.1 -> 205...		Estazolam-D5	6.392	151729
Flunitrazepam	314.1 -> 268...	11/20/2017 3:16 PM					314.1 -> 239...		Flunitrazepam-D7	6.430	6012
Flurazepam	388.2 -> 315...	11/20/2017 3:16 PM					388.2 -> 317...		Zopiclone-D4	6.242	127207
Imipramine	281.2 -> 86.2	11/20/2017 3:16 PM					281.2 -> 58.3		Imipramine-D3	6.476	650140
Levamisole	205.1 -> 91.2	11/20/2017 3:16 PM					205.1 -> 178...		Cocaine-D3	5.656	354603
Maprotiline	278.2 -> 91.2	11/20/2017 3:16 PM	6.600	2287	0.71		278.2 -> 117...		Meperidine-D4	5.706	157103
MDA	180.1 -> 163...	11/20/2017 3:16 PM					180.1 -> 105...		MDA-D5	5.023	114098
MDEA	208.1 -> 163...	11/20/2017 3:16 PM					208.1 -> 105...		MDEA-D6	5.282	265430
MDMA	194.1 -> 163...	11/20/2017 3:16 PM					194.1 -> 105...		MDMA-D6	5.143	27982
Meperidine	248.2 -> 220...	11/20/2017 3:16 PM					248.2 -> 174...		Meperidine-D4	5.706	157103
Methylphenidate	234.2 -> 84.2	11/20/2017 3:16 PM					234.2 -> 56.3		Meperidine-D4	5.706	157103
Metoprolol	268.2 -> 116...	11/20/2017 3:16 PM					268.2 -> 56.3		Meperidine-D4	5.706	157103
Midazolam	326.1 -> 223...	11/20/2017 3:16 PM					326.1 -> 249...		Midazolam-D4	6.611	225298
Mirtazapine	266.2 -> 195...	11/20/2017 3:16 PM					266.2 -> 72.3		Midazolam-D4	6.611	225298
Mitragynine	399.2 -> 174...	11/20/2017 3:16 PM					399.2 -> 238...		Carbamazepine-13C6	6.136	742786
Normeperidine	234.1 -> 42.3	11/20/2017 3:16 PM					234.1 -> 160...		Normeperidine-D4	5.667	120441
Norpropoxyphene	326.2 -> 44.3	11/20/2017 3:16 PM					326.2 -> 252...		Norpropoxyphene-D5	6.286	98558
Nortriptyline	264.2 -> 91.2	11/20/2017 3:16 PM					264.2 -> 233...		Nortriptyline-D3	6.459	258448
Ondansetron	294.2 -> 184...	11/20/2017 3:16 PM					294.2 -> 212...		Pentazocine-13C3	5.721	258755
Pentazocine	286.2 -> 218...	11/20/2017 3:16 PM					286.2 -> 41.3		Pentazocine-13C3	5.721	258755
Phenazepam	349.0 -> 206...	11/20/2017 3:16 PM					349.0 -> 183...		Phenazepam-D4	6.507	11802
Phencyclidine	244.2 -> 86.2	11/20/2017 3:16 PM					244.2 -> 91.1		Phencyclidine-D5	5.952	594829
Phenytoln	253.1 -> 104...	11/20/2017 3:16 PM					253.1 -> 182...		Phenytoln-D10	6.033	6946
Praxepam	325.1 -> 271...	11/20/2017 3:16 PM					325.1 -> 140...		Praxepam-D5	6.955	479498
Primidone	219.1 -> 91.2	11/20/2017 3:16 PM					219.1 -> 162...		Praxepam-D5	6.955	479498
Propoxyphene	340.2 -> 58.3	11/20/2017 3:16 PM					340.2 -> 266...		Propoxyphene-D11	6.304	145806
Protriptyline	264.2 -> 155...	11/20/2017 3:16 PM					264.2 -> 161...		Nortriptyline-D3	6.459	258448
Pseudoephedrine	166.1 -> 148...	11/20/2017 3:16 PM					166.1 -> 133...		Pseudoephedrine-D3	4.680	267183
Tapentadol	222.2 -> 107...	11/20/2017 3:16 PM					222.2 -> 121...		Tapentadol-D3	5.506	444484
Trimipramine	295.2 -> 100...	11/20/2017 3:16 PM					295.2 -> 58.3		Trimipramine-D3	6.556	11113...
Verapamil	455.3 -> 165...	11/20/2017 3:16 PM					455.3 -> 150...		Trimipramine-D3	6.556	11113...
Zaleplon	306.1 -> 236...	11/20/2017 3:16 PM					306.1 -> 264...		Zaleplon-D4	6.227	110969
Zopiclone	389.1 -> 244...	11/20/2017 3:16 PM					389.1 -> 216...		Zopiclone-D4	6.242	127207

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

Extraction Date: 11-21-17

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: 2017 Data\11212017 am ²⁶ Batch Name: 112117 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: Extracted samples 11-20-17 ~~run~~ accidentally ran on an expired stock plate. Did not evaluate results re-extracted and ran 11-21-17.



ISP FORENSICS - Cd'A

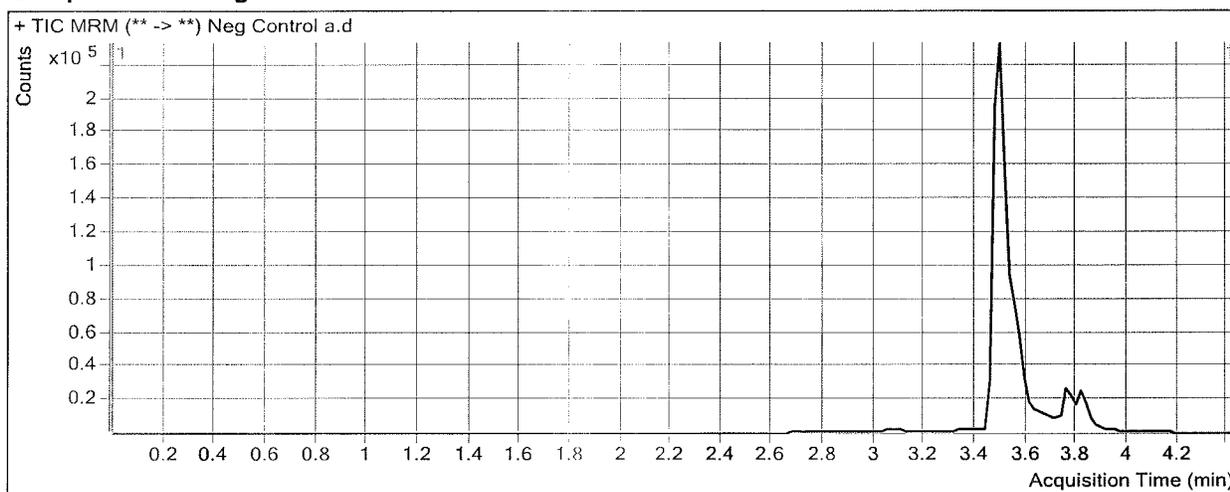
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:45 **Data File** Neg Control a.d
Sample Type Sample **Sample Name** Neg Control a
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	3.546	7684	242243	0.0317	2.7980 < 5 *

ISP FORENSICS - Cd'A

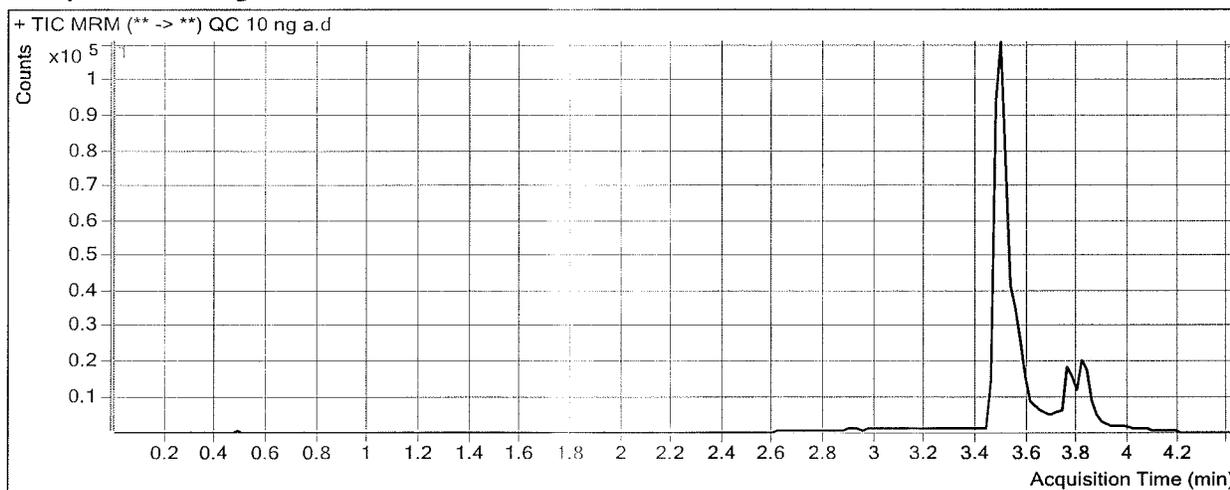
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 12:05 **Data File** QC 10 ng a.d
Sample Type QC **Sample Name** QC 10 ng a
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

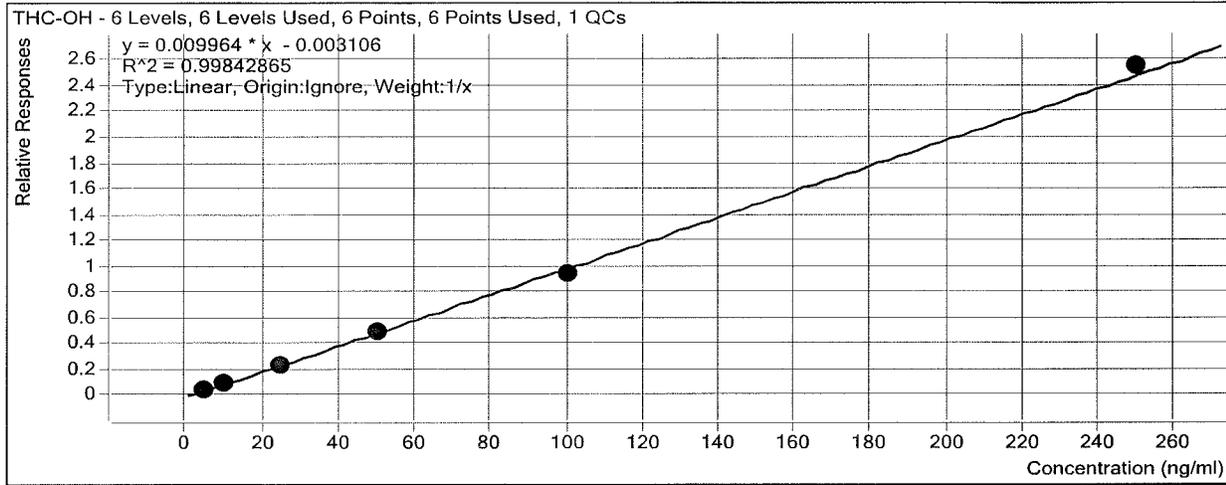
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.493	34214	349164	0.0980	10.1455
THC-COOH	3.546	16703	84762	0.1971	11.3189
THC	3.840	2185	22562	0.0968	10.3568

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin

Last Calib Update 11/21/2017 1:49 PM **Analyst Name** ISP TOX

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



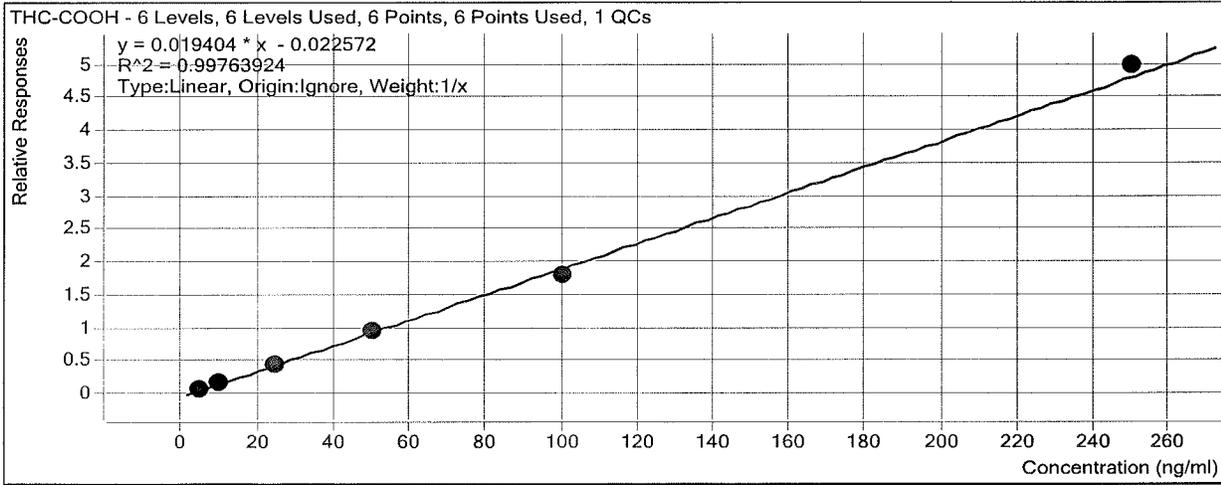
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng a	2	<input checked="" type="checkbox"/>	5	5.4	107.0
cal 3 - 10ng a	3	<input checked="" type="checkbox"/>	10	10.0	100.3
QC 10 ng a	3	<input checked="" type="checkbox"/>	10	10.1	101.5
cal 4 - 25ng a	4	<input checked="" type="checkbox"/>	25	23.7	94.9
cal 5 - 50ng a	5	<input checked="" type="checkbox"/>	50	50.4	100.9
cal 6 - 100ng a	6	<input checked="" type="checkbox"/>	100	94.5	94.5
cal 7 - 250ng a	7	<input checked="" type="checkbox"/>	250	256.0	102.4

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin

Last Calib Update 11/21/2017 1:49 PM **Analyst Name** ISP TOX

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



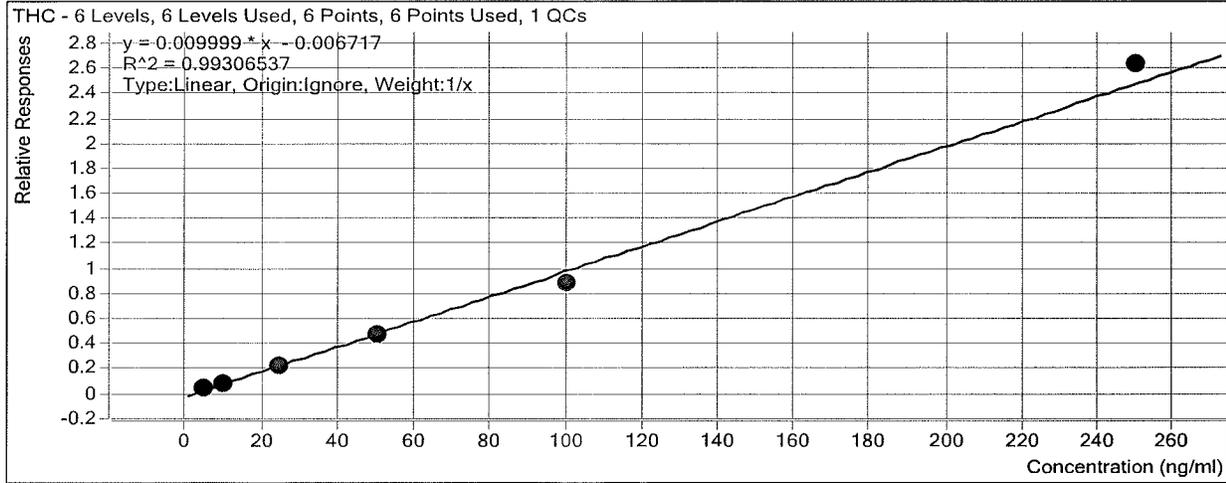
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng a	2	<input checked="" type="checkbox"/>	5	5.4	108.8
cal 3 - 10ng a	3	<input checked="" type="checkbox"/>	10	10.0	100.1
QC 10 ng a	3	<input checked="" type="checkbox"/>	10	11.3	113.2
cal 4 - 25ng a	4	<input checked="" type="checkbox"/>	25	23.7	94.8
cal 5 - 50ng a	5	<input checked="" type="checkbox"/>	50	50.1	100.1
cal 6 - 100ng a	6	<input checked="" type="checkbox"/>	100	93.1	93.1
cal 7 - 250ng a	7	<input checked="" type="checkbox"/>	250	257.7	103.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin

Last Calib Update 11/21/2017 1:49 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng a	2	<input checked="" type="checkbox"/>	5	6.0	120.3
cal 3 - 10ng a	3	<input checked="" type="checkbox"/>	10	9.7	97.2
QC 10 ng a	3	<input checked="" type="checkbox"/>	10	10.4	103.6
cal 4 - 25ng a	4	<input checked="" type="checkbox"/>	25	22.7	91.0
cal 5 - 50ng a	5	<input checked="" type="checkbox"/>	50	48.4	96.8
cal 6 - 100ng a	6	<input checked="" type="checkbox"/>	100	89.2	89.2
cal 7 - 250ng a	7	<input checked="" type="checkbox"/>	250	263.9	105.6

ISP FORENSICS - Cd'A

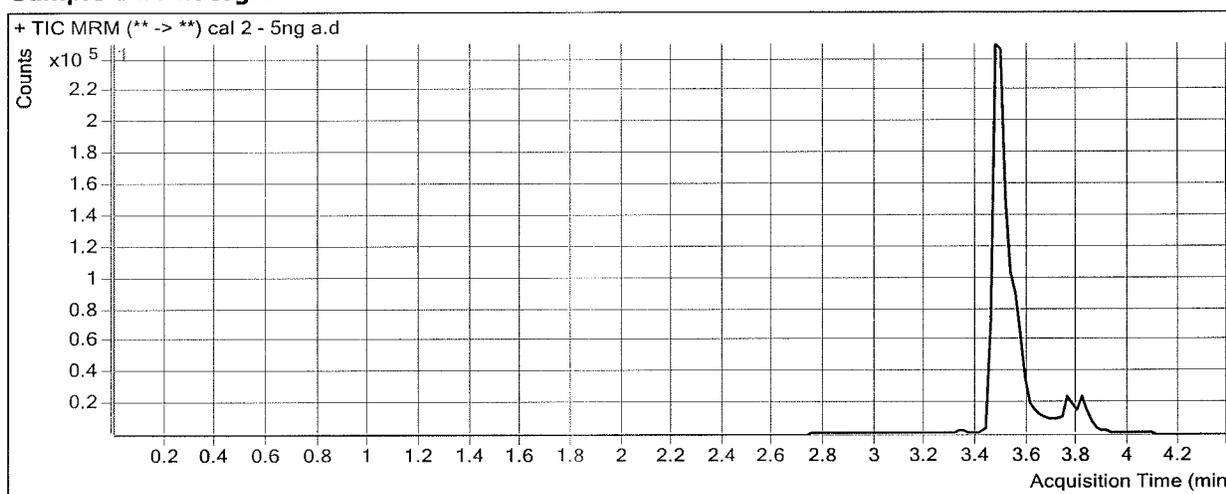
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:12 **Data File** cal 2 - 5ng a.d
Sample Type Calibration **Sample Name** cal 2 - 5ng a
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	3.493	42714	850732	0.0502	5.3504
THC-COOH	3.546	24028	289610	0.0830	5.4392
THC	3.840	1245	23311	0.0534	6.0126

ISP FORENSICS - Cd'A

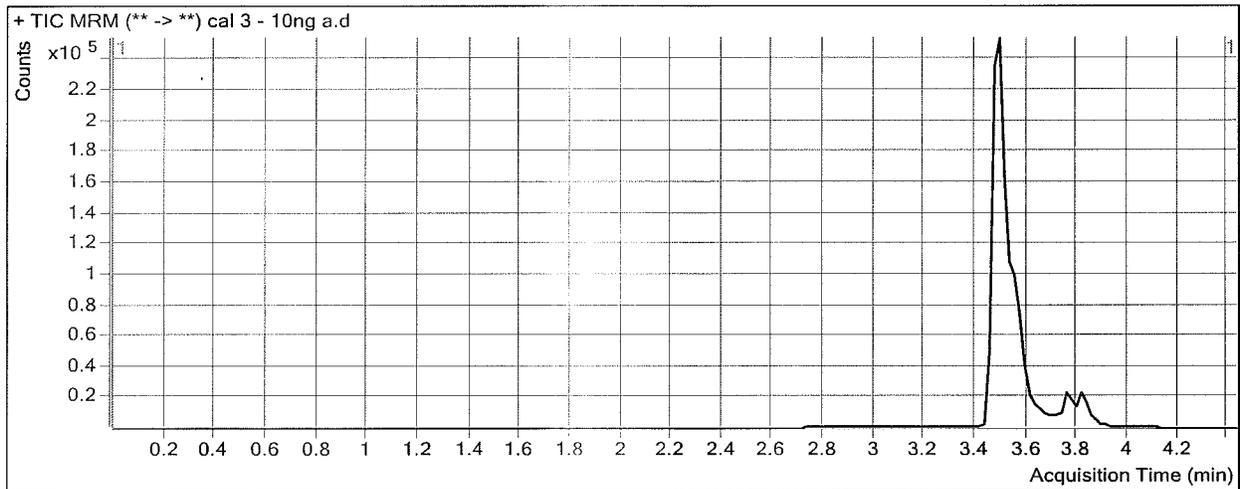
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:19 **Data File** cal 3 - 10ng a.d
Sample Type Calibration **Sample Name** cal 3 - 10ng a
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	3.493	79063	816036	0.0969	10.0350
THC-COOH	3.546	46703	272129	0.1716	10.0082
THC	3.840	2064	22810	0.0905	9.7197

ISP FORENSICS - Cd'A

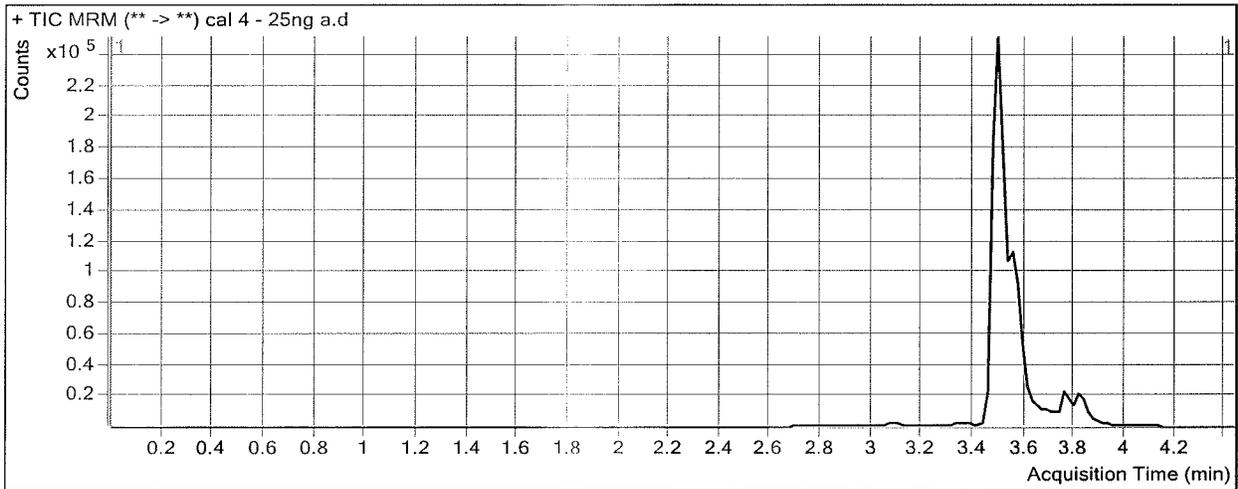
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:26 **Data File** cal 4 - 25ng a.d
Sample Type Calibration **Sample Name** cal 4 - 25ng a
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	3.493	156204	669605	0.2333	23.7226
THC-COOH	3.546	100845	230542	0.4374	23.7069
THC	3.840	4661	21124	0.2206	22.7376

ISP FORENSICS - Cd'A

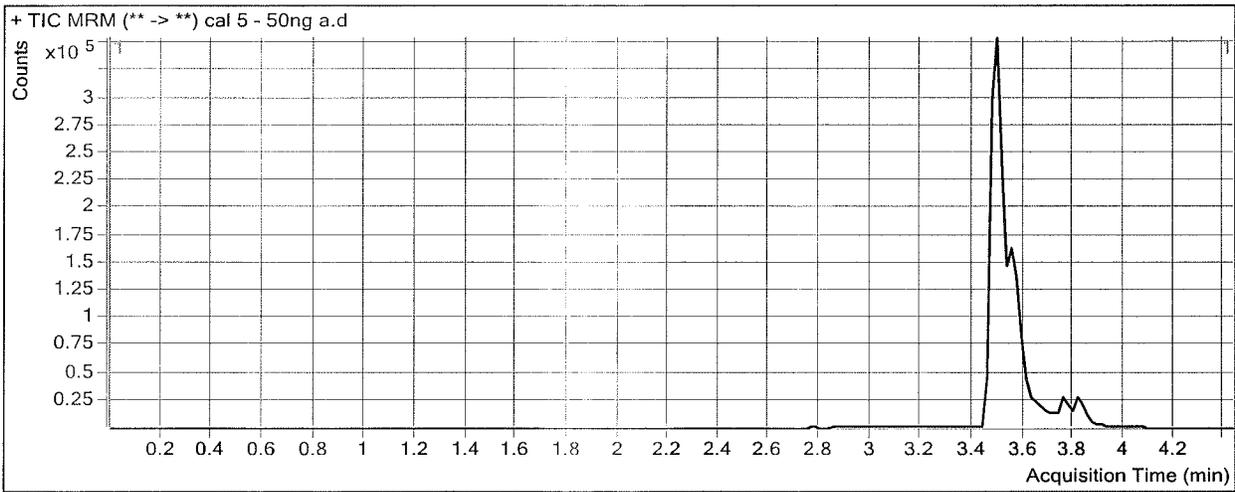
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:32 **Data File** cal 5 - 50ng a.d
Sample Type Calibration **Sample Name** cal 5 - 50ng a
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	3.493	397379	795532	0.4995	50.4410
THC-COOH	3.546	234720	247397	0.9488	50.0594
THC	3.840	11809	24741	0.4773	48.4069

ISP FORENSICS - Cd'A

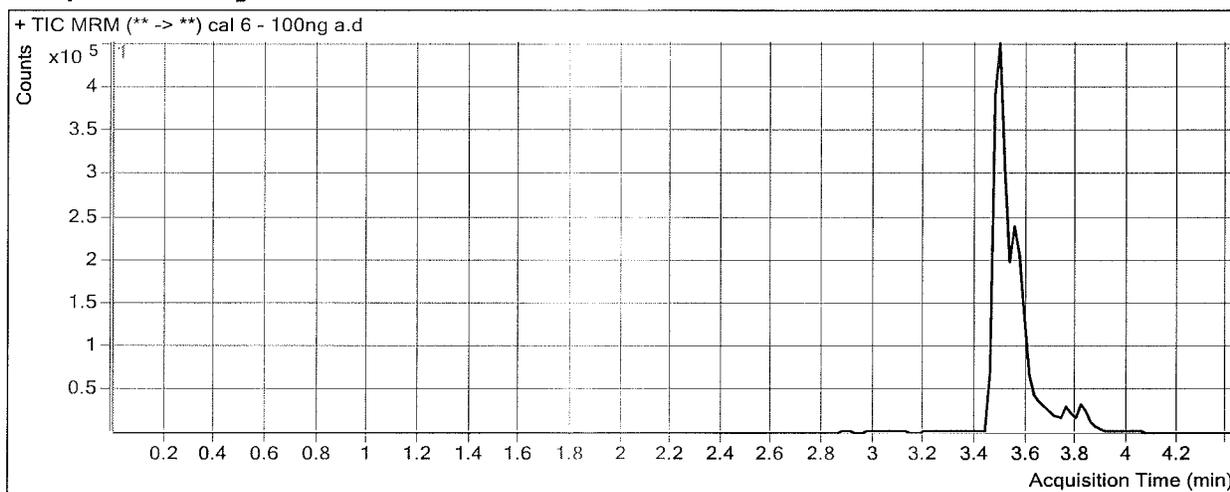
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:39 **Data File** cal 6 - 100ng a.d
Sample Type Calibration **Sample Name** cal 6 - 100ng a
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	3.493	732999	781158	0.9383	94.4811
THC-COOH	3.546	443418	248505	1.7843	93.1228
THC	3.820	22010	24857	0.8855	89.2301

ISP FORENSICS - Cd'A

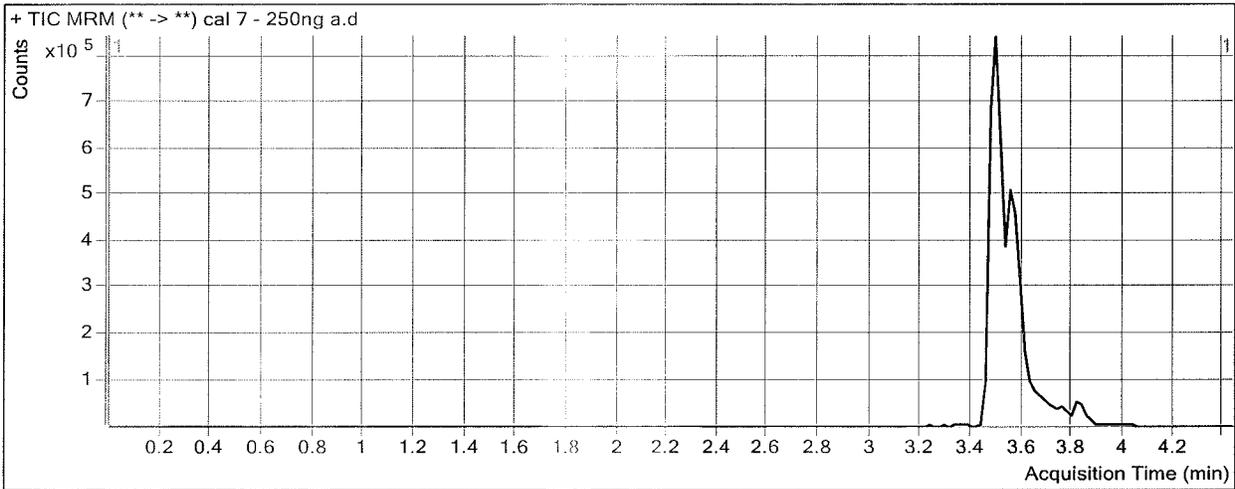
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\11212017 am 26\QuantResults\112117 cann screen.batch.bin
Analysis Time 11/21/2017 1:49 PM **Analyst Name** ISP Tox
Report Time 11/21/2017 1:51 PM **Reporter Name** ISP Tox
Last Calib Update 11/21/2017 1:49 PM **Batch State** Processed

Analysis Info

Acq Time 2017-11-21 11:52 **Data File** cal 7 - 250ng a.d
Sample Type Calibration **Sample Name** cal 7 - 250ng a
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	3.493	1991581	781777	2.5475	255.9699
THC-COOH	3.546	1181119	237315	4.9770	257.6636
THC	3.840	65862	25024	2.6319	263.8931