

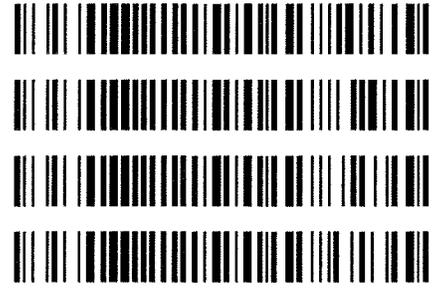
Worklist: 2722

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2018-1903	1	127074	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1928	1	127193	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1931	1	127205	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1932	1	127208	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1948	1	127441	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1960	1	127675	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1971	1	127711	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-1997	1	128018	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-2018	1	128163	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
C2018-2019	1	128165	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4653	1	126745	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4737	1	127115	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4791	1	127307	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4823	1	127389	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4824	1	127394	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4825	1	127397	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4826	1	127401	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4826	2	127405	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4826	3	127409	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4836	1	127485	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
M2018-4919	1	127869	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
P2018-2727	1	127284	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	
P2018-2797	1	127725	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt	



Worklist: 2722

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
P2018-2844	1	128209	AM 25/AM 26 Blood MultiDrug/THC Screen by L
P2018-2845	1	128212	AM 25/AM 26 Blood MultiDrug/THC Screen by L
P2018-2846	1	128215	AM 25/AM 26 Blood MultiDrug/THC Screen by L
P2018-2847	1	128218	AM 25/AM 26 Blood MultiDrug/THC Screen by L



AM# 25: Multi-Drug Screen in Blood by LC-MS/MS

Extraction Date: 10/9/18 Analyst: Anne Nord
Plate lot#: 0515207 Plate Expiration: 10/18/2018

Mobile phase A: 10mM Amm Form
0.5M Ammonium Hydroxide

Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol

Blank Blood Lot: 18G207D7

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

LCMS-XXX 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 ID: 66759*
- 4. Pipette **250µL 0.5M ammonium hydroxide** 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. 10-15 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 **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900uL ethyl acetate**.
- 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% LC 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: mds p1, mds p2 Worklist path: 100918 am 25-26
- 2. Make necessary changes to integration limits
- 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. > 1/2 the response of administrative control. (1/2 to 1/5 analyst discretion)
- 4. Did all QCs pass for each analyte? Y / N [Click here to enter text.](#)
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: [Click here to enter text.](#)



Toxicology AM method 25 external prep information
working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline
Stock solution 1mg/ml 100 ul each in 9600ul meOH
Ppd 4/23/18 Exp: 4/23/19 lot 42318 by Amn

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Hydrocodone	FE09091505	9/1/2020
nortriptyline	FN06191503	8/1/2020
sertraline	FN01081501	3/1/2020

AM 25 control 100 ul working solution (42318) in 9900 ul neg blood
ppd 04/23/18 exp 4/23/19 lot 42318 neg blood lot 17J20718 by Amn

Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone



Compound Method		p1 cal 1-2a			p1 cal 1-2a Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.				
6-MAM	328.2 -> 165...	10/9/2018 12:24 PM	5.400	1096	14.86	328.2 -> 211...	9.58	983	983	6-MAM-D6	5.339	46410					
7-aminoclonazepam	286.1 -> 121...	10/9/2018 12:24 PM	5.612	18941	76.31	286.1 -> 222...	2658.95	13926	13926	7-Aminoclonazepam-D4	5.590	80122					
Benzoylcegonine	290.1 -> 168...	10/9/2018 12:24 PM	5.406	12999	2437.12	290.1 -> 105...	32.44	7793	7793	Benzoylcegonine-D8	5.385	4486					
Metoprolol	268.2 -> 116...	10/9/2018 12:24 PM	5.594	17193	153.88	268.2 -> 56.3	29.40	16086	16086	Noroxycodone-D3	5.037	102648					
a-hydroxyalprazolam	325.1 -> 297...	10/9/2018 12:24 PM	6.379	5779	18.59	325.1 -> 215...	559.67	3101	3101	a-hydroxyalprazolam-D5	6.358	30083					
alpha-PVP	232.2 -> 91.0	10/9/2018 12:24 PM	5.946	126349	118.36	232.2 -> 77.1	35.06	48434	48434	alpha-PVP-d8	5.884	583785					
Alprazolam	309.1 -> 281...	10/9/2018 12:24 PM	6.465	41255	136.50	309.1 -> 205...	192.95	42209	42209	Alprazolam-D5	6.443	168710					
Amphetamine	136.1 -> 91.1	10/9/2018 12:24 PM	4.972	140880	Infinity	136.1 -> 119...	66.79	61284	61284	Amphetamine-D11	4.931	127662					
Cocaine	304.2 -> 182...	10/9/2018 12:24 PM	5.874	133567	191.94	304.2 -> 105...	141.72	31970	31970	Cocaine-D3	5.853	620811					
Bupropion	240.1 -> 184...	10/9/2018 12:24 PM	6.169	109779	16927.60	240.1 -> 131...	15188...	56516	56516	Bupropion-D9	6.128	521631					
Carisoprodol	261.2 -> 176...	10/9/2018 12:24 PM	6.127	56620	231.90	261.2 -> 55.3	206.13	52936	52936	Carisoprodol-D7	6.126	355433					
Citalopram	325.2 -> 109...	10/9/2018 12:24 PM	6.196	160519	168.83	325.2 -> 262...	352.02	38984	38984	Citalopram-D6	6.175	764397					
Clonazepam	316.1 -> 269...	10/9/2018 12:24 PM	6.320	15160	3886.52	316.1 -> 213...	992.51	4342	4342	Clonazepam-D4	6.299	23686					
Codeine	300.2 -> 215...	10/9/2018 12:24 PM	5.344	8933	359.96	300.2 -> 165...	20.26	6584	6584	Codeine-D6	5.301	42758					
Cyclobenzaprine	276.2 -> 214...	10/9/2018 12:24 PM	6.552	108297	23529.46	276.2 -> 231...	85.03	30852	30852	Cyclobenzaprine-D3	6.530	538877					
Dextromethorphan	272.2 -> 171...	10/9/2018 12:24 PM	6.268	49079	840.78	272.2 -> 147...	7095.70	45250	45250	Dextromethorphan-D3	6.267	251518					
Dextropropion	258.2 -> 157...	10/9/2018 12:24 PM	5.596	37029	59.10	258.2 -> 133...	175.18	24993	24993	Dextropropion-D3	5.595	199522					
Diazepam	285.1 -> 193...	10/9/2018 12:24 PM	6.671	34572	90.53	285.1 -> 153...	124.78	22575	22575	Diazepam-D5	6.670	149529					
Dihydrocodeine	302.2 -> 198...	10/9/2018 12:24 PM	5.099	21669	249.93	302.2 -> 128...	74.12	14239	14239	Dihydrocodeine-D6	5.056	110463					
Diphenhydramine	256.2 -> 167...	10/9/2018 12:24 PM	6.189	269583	97.17	256.2 -> 152...	16941...	64745	64745	Diphenhydramine-D3	6.188	1432756					
Doxylamine	271.2 -> 182...	10/9/2018 12:24 PM	5.839	230960	195.13	271.2 -> 167...	249.96	1505...	1505...	Doxylamine-D5	5.818	1156493					
EDDP	279.2 -> 235...	10/9/2018 12:24 PM	6.143	155437	1326.02	279.2 -> 280...	631.62	47027	47027	EDDP-D3	6.143	70199					
Fentanyl	337.2 -> 105...	10/9/2018 12:24 PM	6.581	25885	28.48	337.2 -> 188...	152.96	17236	17236	Fentanyl-D5	6.561	1416199					
Fluoxetine	310.1 -> 44.3	10/9/2018 12:24 PM	6.362	184214	Infinity	310.1 -> 148...	127.31	6899	6899	Fluoxetine-D6	6.361	968527					
Hydrocodone	300.2 -> 198...	10/9/2018 12:24 PM	5.569	23262	14.30	300.2 -> 128...	Infinity	10840	10840	Hydrocodone-D6	5.526	177894					
Hydromorphone	286.2 -> 184...	10/9/2018 12:24 PM	4.881	19216	132.49	286.2 -> 157...	82.93	11917	11917	Hydromorphone-D6	4.818	70272					
Ketamine	238.1 -> 125...	10/9/2018 12:24 PM	6.149	90540	183.75	238.1 -> 220...	21.28	35553	35553	Ketamine-D4	6.128	422492					
Mirtazapine	266.2 -> 195...	10/9/2018 12:24 PM	6.534	200038	670.99	266.2 -> 72.3	320.30	1202...	1202...	Tramadol-13C-D3	5.614	961750					
Mitragynine	399.2 -> 238...	10/9/2018 12:24 PM	6.578	27576	314.13	399.2 -> 174...	190.81	71570	71570	Tramadol-13C-D3	5.614	961750					
Meprobamate	219.1 -> 158...	10/9/2018 12:24 PM	5.681	22536	159.70	219.1 -> 97.1	79.73	18612	18612	Meprobamate-D7	5.660	122853					
Methadone	310.2 -> 265...	10/9/2018 12:24 PM	6.464	181341	267.67	310.2 -> 105...	241.98	1804...	1804...	Methadone-D9	6.442	992718					
Methamphetamine	150.1 -> 91.1	10/9/2018 12:24 PM	5.153	54242	13.75	150.1 -> 119...	Infinity	19690	19690	Methamphetamine-D11	5.112	154802					
Morphine	286.2 -> 201...	10/9/2018 12:24 PM	4.598	4473	29.55	286.2 -> 165...	30.69	3059	3059	Morphine-D6	4.537	3609					
Norbuprenorphine	414.3 -> 101...	10/9/2018 12:24 PM	6.029	6500	36.49	414.3 -> 57.3	102.33	4809	4809	Norbuprenorphine-D3	6.009	27151					
Nordiazepam	271.1 -> 140...	10/9/2018 12:24 PM	6.533	14745	154.64	271.1 -> 208...	77.59	11065	11065	Nordiazepam-D5	6.532	47564					
Norfentanyl	233.2 -> 84.2	10/9/2018 12:24 PM	5.496	128203	685.88	233.2 -> 55.3	35.24	43499	43499	Norfentanyl-D5	5.475	578263					
Norhydrocodone	286.2 -> 199...	10/9/2018 12:24 PM	5.143	2577	9.70	286.2 -> 171...	Infinity	832	832	Norhydrocodone-D3	5.123	60880					
Noroxycodone	302.1 -> 284...	10/9/2018 12:24 PM	5.038	14609	12.80	302.1 -> 186...	39.68	7447	7447	Noroxycodone-D3	5.037	102648					
O-desmethyl-tramadol	250.2 -> 58.3	10/9/2018 12:24 PM	5.088	166835	649.30	250.2 -> 42.3	1237.26	10125	10125	O-desmethyl-tramadol...	5.068	762576					
Oxazepam	287.1 -> 240...	10/9/2018 12:24 PM	6.365	11455	83.49	287.1 -> 268...	12.76	5614	5614	Oxazepam-D5	6.365	48345					
Oxycodone	316.2 -> 298...	10/9/2018 12:24 PM	5.279	41543	483.84	316.2 -> 241...	38.89	13599	13599	Oxycodone-D6	5.238	218679					
Oxymorphone	302.1 -> 284...	10/9/2018 12:24 PM	4.554	38062	49.48	302.1 -> 227...	143.49	8853	8853	Oxymorphone-D3	4.512	202914					



Compound Method		p1 cal 1-2a		p1 cal 1-2a Results			Qualifier 1 M...		Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.		
Phentermine	150.1 -> 65.2	10/9/2018 12:24 PM	5.295	22057	Infinity	<input checked="" type="checkbox"/>	150.1 -> 133...	Infinity	381	<input checked="" type="checkbox"/>	Phentermine-D5	5.274	306511		
Promethazine	285.1 -> 86.2	10/9/2018 12:24 PM	6.691	397161	2122.13	<input type="checkbox"/>	285.1 -> 71.3	67.62	81471	<input type="checkbox"/>	Promethazine-D3	6.670	2122297		
Quetiapine	384.2 -> 253...	10/9/2018 12:24 PM	6.681	241400	1107.03	<input type="checkbox"/>	384.2 -> 221...	38989...	1350...	<input type="checkbox"/>	Quetiapine-D8	6.659	330022		
Sertraline	306.1 -> 158...	10/9/2018 12:24 PM	6.689	49955	188.90	<input type="checkbox"/>	306.1 -> 275...	Infinity	46454	<input type="checkbox"/>	Sertraline-D3	6.667	247760		
Temazepam	301.1 -> 255...	10/9/2018 12:24 PM	6.507	64087	234.27	<input type="checkbox"/>	301.1 -> 283...	17.24	23536	<input type="checkbox"/>	Temazepam-D5	6.506	316616		
Tramadol	264.2 -> 58.3	10/9/2018 12:24 PM	5.615	198687	110.79	<input type="checkbox"/>	264.2 -> 43.3	19.17	12701	<input type="checkbox"/>	Tramadol-13C-D3	5.614	961750		
Trazodone	372.2 -> 176...	10/9/2018 12:24 PM	6.844	231661	283.70	<input type="checkbox"/>	372.2 -> 148...	Infinity	1618...	<input type="checkbox"/>	Trazodone-D6	6.823	1029745		
Venlafaxine	278.2 -> 58.3	10/9/2018 12:24 PM	5.940	194666	276.12	<input type="checkbox"/>	278.2 -> 260...	260.40	39976	<input type="checkbox"/>	Venlafaxine-D6	5.939	920087		
Zolpidem	308.2 -> 235...	10/9/2018 12:24 PM	6.404	192717	141461....	<input type="checkbox"/>	308.2 -> 263...	204.72	68028	<input type="checkbox"/>	Zolpidem-D6	6.402	1015731		

Compound Method			p1negative control			p1negative control Results			Qualifier 1 M...			Qualifier 1 Re...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.	S/N	MI	Area	Transition	RT	Resp.
6-MAM	328.2 -> 165...	10/9/2018 12:43 PM					328.2 -> 211...				6-MAM-D6	5.359	46097					5.359	46097
7-aminoclonazepam	286.1 -> 121...	10/9/2018 12:43 PM					286.1 -> 222...				7-Aminoclonazepam-D4	5.590	89791					5.590	89791
Benzoylcegonine	290.1 -> 168...	10/9/2018 12:43 PM					290.1 -> 105...				Benzoylcegonine-D8	5.385	4340					5.385	4340
Metoprolol	268.2 -> 116...	10/9/2018 12:43 PM					268.2 -> 56.3				Noroxycodone-D3	5.037	103968					5.037	103968
a-hydroxylprazosolam	325.1 -> 297...	10/9/2018 12:43 PM					325.1 -> 215...				a-hydroxylprazosolam-D5	6.358	34840					6.358	34840
alpha-PVP	232.2 -> 91.0	10/9/2018 12:43 PM					232.2 -> 77.1				alpha-PVP-d8	5.884	546853					5.884	546853
Alprazolam	309.1 -> 281...	10/9/2018 12:43 PM					309.1 -> 205...				Alprazolam-D5	6.464	189569					6.464	189569
Amphetamine	136.1 -> 91.1	10/9/2018 12:43 PM	5.032	36240	140.05		136.1 -> 119...				Amphetamine-D11	4.931	117900					4.931	117900
Cocaine	304.2 -> 182...	10/9/2018 12:43 PM					304.2 -> 105...				Cocaine-D3	5.853	633655					5.853	633655
Bupropion	240.1 -> 184...	10/9/2018 12:43 PM					240.1 -> 131...				Bupropion-D9	6.128	487023					6.128	487023
Carisoprodol	261.2 -> 176...	10/9/2018 12:43 PM					261.2 -> 55.3				Carisoprodol-D7	6.126	351781					6.126	351781
Citalopram	325.2 -> 109...	10/9/2018 12:43 PM					325.2 -> 262...				Citalopram-D6	6.175	798078					6.175	798078
Clonazepam	316.1 -> 269...	10/9/2018 12:43 PM					316.1 -> 213...				Clonazepam-D4	6.299	24293					6.299	24293
Codeine	300.2 -> 215...	10/9/2018 12:43 PM					300.2 -> 165...				Codeine-D6	5.301	36129					5.301	36129
Cyclobenzaprine	276.2 -> 214...	10/9/2018 12:43 PM					276.2 -> 231...				Cyclobenzaprine-D3	6.530	547090					6.530	547090
Dextromethorphan	272.2 -> 171...	10/9/2018 12:43 PM					272.2 -> 147...				Dextromethorphan-D3	6.267	244177					6.267	244177
Dextropropion	258.2 -> 157...	10/9/2018 12:43 PM					258.2 -> 133...				Dextropropion-D3	5.595	215762					5.595	215762
Diazepam	285.1 -> 193...	10/9/2018 12:43 PM					285.1 -> 153...				Diazepam-D5	6.670	169839					6.670	169839
Dihydrocodeine	302.2 -> 198...	10/9/2018 12:43 PM					302.2 -> 128...				Dihydrocodeine-D6	5.056	113910					5.056	113910
Diphenhydramine	256.2 -> 167...	10/9/2018 12:43 PM					256.2 -> 152...				Diphenhydramine-D3	6.188	14727...					6.188	14727...
Doxylamine	271.2 -> 182...	10/9/2018 12:43 PM					271.2 -> 167...				Doxylamine-D5	5.818	10871...					5.818	10871...
EDDP	279.2 -> 235...	10/9/2018 12:43 PM					279.2 -> 250...				EDDP-D3	6.143	71734					6.143	71734
Fentanyl	337.2 -> 105...	10/9/2018 12:43 PM					337.2 -> 188...				Fentanyl-D5	6.561	14164...					6.561	14164...
Fluoxetine	310.1 -> 44.3	10/9/2018 12:43 PM					310.1 -> 148...				Fluoxetine-D6	6.361	10313...					6.361	10313...
Hydrocodone	300.2 -> 198...	10/9/2018 12:43 PM					300.2 -> 128...				Hydrocodone-D6	5.526	183006					5.526	183006
Hydromorphone	286.2 -> 184...	10/9/2018 12:43 PM					286.2 -> 157...				Hydromorphone-D6	4.818	68875					4.818	68875
Ketamine	238.1 -> 125...	10/9/2018 12:43 PM					238.1 -> 220...				Ketamine-D4	6.128	407442					6.128	407442
Mirtazapine	266.2 -> 195...	10/9/2018 12:43 PM					266.2 -> 72.3				Tramadol-13C-D3	5.614	989234					5.614	989234
Mitragynine	399.2 -> 238...	10/9/2018 12:43 PM					399.2 -> 174...				Tramadol-13C-D3	5.614	989234					5.614	989234
Meprobamate	219.1 -> 158...	10/9/2018 12:43 PM					219.1 -> 97.1				Meprobamate-D7	5.660	125598					5.660	125598
Methadone	310.2 -> 265...	10/9/2018 12:43 PM					310.2 -> 105...				Methadone-D9	6.442	10270...					6.442	10270...
Methamphetamine	150.1 -> 91.1	10/9/2018 12:43 PM	5.153	21402	0.74		150.1 -> 119...				Methamphetamine-D11	5.112	162344					5.112	162344
Morphine	286.2 -> 201...	10/9/2018 12:43 PM					286.2 -> 165...				Morphine-D6	4.537	4003					4.537	4003
Norbuprenorphine	414.3 -> 101...	10/9/2018 12:43 PM					414.3 -> 57.3				Norbuprenorphine-D3	6.009	29109					6.009	29109
Nordiazepam	271.1 -> 140...	10/9/2018 12:43 PM					271.1 -> 208...				Nordiazepam-D5	6.532	64990					6.532	64990
Norfentanyl	233.2 -> 84.2	10/9/2018 12:43 PM					233.2 -> 55.3				Norfentanyl-D5	5.475	591001					5.475	591001
Norhydrocodone	286.2 -> 199...	10/9/2018 12:43 PM					286.2 -> 171...				Norhydrocodone-D3	5.123	58465					5.123	58465
Noroxycodone	302.1 -> 284...	10/9/2018 12:43 PM					302.1 -> 186...				Noroxycodone-D3	5.037	103968					5.037	103968
O-desmethyl-tramadol	250.2 -> 58.3	10/9/2018 12:43 PM					250.2 -> 42.3				O-desmethyl-tramadol...	5.068	746916					5.068	746916
Oxazepam	287.1 -> 240...	10/9/2018 12:43 PM					287.1 -> 268...				Oxazepam-D5	6.365	55550					6.365	55550
Oxycodone	316.2 -> 298...	10/9/2018 12:43 PM					316.2 -> 241...				Oxycodone-D6	5.238	216782					5.238	216782
Oxymorphone	302.1 -> 284...	10/9/2018 12:43 PM					302.1 -> 227...				Oxymorphone-D3	4.512	201772					4.512	201772

Compound Method		p1negative control		p1negative control Results			Qualifier 1 M...		Qualifier 1 Re...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.		
Phentermine	150.1 -> 65.2	10/9/2018 12:43 PM					150.1 -> 133...				Phentermine-D5	5.274	311347		
Promethazine	285.1 -> 86.2	10/9/2018 12:43 PM					285.1 -> 71.3				Promethazine-D3	6.670	22444...		
Quetiapine	384.2 -> 253...	10/9/2018 12:43 PM					384.2 -> 221...				Quetiapine-D8	6.680	362784		
Sertraline	306.1 -> 158...	10/9/2018 12:43 PM					306.1 -> 275...				Sertraline-D3	6.688	267704		
Temazepam	301.1 -> 255...	10/9/2018 12:43 PM					301.1 -> 283...				Temazepam-D5	6.506	364076		
Tramadol	264.2 -> 58.3	10/9/2018 12:43 PM					264.2 -> 43.3				Tramadol-13C-D3	5.614	989234		
Trazodone	372.2 -> 176...	10/9/2018 12:43 PM					372.2 -> 148...				Trazodone-D6	6.843	11417...		
Venlafaxine	278.2 -> 58.3	10/9/2018 12:43 PM					278.2 -> 260...				Venlafaxine-D6	5.939	931560		
Zolpidem	308.2 -> 235...	10/9/2018 12:43 PM					308.2 -> 263...				Zolpidem-D6	6.402	10511...		

Compound Method			p1 external control				p1 external control Results				Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.								
6-MAM	328.2 -> 165...	10/9/2018 1:03 PM					328.2 -> 211...				6-MAM-D6	5.359	49247								
7-aminoclonazepam	286.1 -> 121...	10/9/2018 1:03 PM					286.1 -> 222...				7-Aminoclonazepam-D4	5.611	81528								
Benzoylcegonine	290.1 -> 168...	10/9/2018 1:03 PM					290.1 -> 105...				Benzoylcegonine-D8	5.385	4994								
Metoprolol	268.2 -> 116...	10/9/2018 1:03 PM					268.2 -> 56.3				Noroxycodone-D3	5.037	110952								
a-hydroxyalprazolam	325.1 -> 297...	10/9/2018 1:03 PM					325.1 -> 215...				a-hydroxyalprazolam-D5	6.379	36561								
alpha-PVP	232.2 -> 91.0	10/9/2018 1:03 PM					232.2 -> 77.1				alpha-PVP-d8	5.884	580307								
Alprazolam	309.1 -> 281...	10/9/2018 1:03 PM					309.1 -> 205...				Alprazolam-D5	6.464	191964								
Amphetamine	136.1 -> 91.1	10/9/2018 1:03 PM	5.032	27055	59.83		136.1 -> 119...				Amphetamine-D11	4.931	159518								
Cocaine	304.2 -> 182...	10/9/2018 1:03 PM					304.2 -> 105...				Cocaine-D3	5.853	585518								
Bupropion	240.1 -> 184...	10/9/2018 1:03 PM					240.1 -> 131...				Bupropion-D9	6.128	570612								
Carisoprodol	261.2 -> 176...	10/9/2018 1:03 PM					261.2 -> 55.3				Carisoprodol-D7	6.126	338362								
Citalopram	325.2 -> 109...	10/9/2018 1:03 PM					325.2 -> 262...				Citalopram-D6	6.175	780059								
Clonazepam	316.1 -> 269...	10/9/2018 1:03 PM					316.1 -> 213...				Clonazepam-D4	6.319	28955								
Codeine	300.2 -> 215...	10/9/2018 1:03 PM	5.589	8630	43.20		300.2 -> 165...		54.99	22685	Codeine-D6	5.301	36424								
Cyclobenzaprine	276.2 -> 214...	10/9/2018 1:03 PM					276.2 -> 231...				Cyclobenzaprine-D3	6.530	541895								
Dextromethorphan	272.2 -> 171...	10/9/2018 1:03 PM					272.2 -> 147...				Dextromethorphan-D3	6.267	254784								
Dextropropion	258.2 -> 157...	10/9/2018 1:03 PM					258.2 -> 133...				Dextropropion-D3	5.595	207293								
Diazepam	285.1 -> 193...	10/9/2018 1:03 PM					285.1 -> 153...				Diazepam-D5	6.670	101542								
Dihydrocodeine	302.2 -> 198...	10/9/2018 1:03 PM					302.2 -> 128...				Dihydrocodeine-D6	5.056	105913								
Diphenhydramine	256.2 -> 167...	10/9/2018 1:03 PM					256.2 -> 152...				Diphenhydramine-D3	6.188	14667...								
Doxylamine	271.2 -> 182...	10/9/2018 1:03 PM					271.2 -> 167...				Doxylamine-D5	5.838	10973...								
EDDP	279.2 -> 235...	10/9/2018 1:03 PM					279.2 -> 250...				EDDP-D3	6.163	71264								
Fentanyl	337.2 -> 105...	10/9/2018 1:03 PM					337.2 -> 188...				Fentanyl-D5	6.561	14471...								
Fluoxetine	310.1 -> 44.3	10/9/2018 1:03 PM					310.1 -> 148...				Fluoxetine-D6	6.361	10841...								
Hydrocodone	300.2 -> 198...	10/9/2018 1:03 PM	5.589	266555	Infinity		300.2 -> 128...		Infinity	1191...	Hydrocodone-D6	5.526	172495								
Hydromorphone	286.2 -> 184...	10/9/2018 1:03 PM	4.881	180106	173.63		286.2 -> 157...		122.03	1265...	Hydromorphone-D6	4.818	67050								
Ketamine	238.1 -> 125...	10/9/2018 1:03 PM					238.1 -> 220...				Ketamine-D4	6.128	434866								
Mirtazapine	266.2 -> 195...	10/9/2018 1:03 PM					266.2 -> 72.3				Tramadol-13C-D3	5.614	977471								
Mitragynine	399.2 -> 238...	10/9/2018 1:03 PM					399.2 -> 174...				Tramadol-13C-D3	5.614	977471								
Meprobamate	219.1 -> 158...	10/9/2018 1:03 PM					219.1 -> 97.1				Meprobamate-D7	5.660	121358								
Methadone	310.2 -> 265...	10/9/2018 1:03 PM					310.2 -> 105...				Methadone-D9	6.463	976179								
Methamphetamine	150.1 -> 91.1	10/9/2018 1:03 PM	5.153	33385	10.69		150.1 -> 119...		Infinity	7053	Methamphetamine-D11	5.112	358648								
Morphine	286.2 -> 201...	10/9/2018 1:03 PM					286.2 -> 165...				Morphine-D6	4.537	4448								
Norbuprenorphine	414.3 -> 101...	10/9/2018 1:03 PM					414.3 -> 57.3				Norbuprenorphine-D3	6.029	31776								
Nordiazepam	271.1 -> 140...	10/9/2018 1:03 PM					271.1 -> 208...				Nordiazepam-D5	6.532	65641								
Norfentanyl	233.2 -> 84.2	10/9/2018 1:03 PM					233.2 -> 55.3				Norfentanyl-D5	5.475	613247								
Norhydrocodone	286.2 -> 199...	10/9/2018 1:03 PM					286.2 -> 171...				Norhydrocodone-D3	5.123	63378								
Noroxycodone	302.1 -> 284...	10/9/2018 1:03 PM					302.1 -> 186...				Noroxycodone-D3	5.037	110952								
O-desmethyl-tramadol	250.2 -> 58.3	10/9/2018 1:03 PM					250.2 -> 42.3				O-desmethyl-tramadol-...	5.068	758965								
Oxazepam	287.1 -> 240...	10/9/2018 1:03 PM					287.1 -> 268...				Oxazepam-D5	6.365	57178								
Oxycodone	316.2 -> 298...	10/9/2018 1:03 PM					316.2 -> 241...				Oxycodone-D6	5.238	212238								
Oxymorphone	302.1 -> 284...	10/9/2018 1:03 PM					302.1 -> 227...				Oxymorphone-D3	4.512	193302								

Compound Method		p1 external control			p1 external control Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.				
Phentermine	150.1 -> 65.2	10/9/2018 1:03 PM					150.1 -> 133...				Phentermine-D5	5.274	500197				
Promethazine	285.1 -> 86.2	10/9/2018 1:03 PM					285.1 -> 71.3				Promethazine-D3	6.670	18467...				
Quetiapine	384.2 -> 253...	10/9/2018 1:03 PM					384.2 -> 221...				Quetiapine-D8	6.659	302027				
Sertraline	306.1 -> 158...	10/9/2018 1:03 PM	6.709	307495	957.64		306.1 -> 275...	Infinity	2942...		Sertraline-D3	6.688	128218				
Temazepam	301.1 -> 255...	10/9/2018 1:03 PM					301.1 -> 283...				Temazepam-D5	6.506	348460				
Tramadol	264.2 -> 58.3	10/9/2018 1:03 PM					264.2 -> 43.3				Tramadol-13C-D3	5.614	977471				
Trazodone	372.2 -> 176...	10/9/2018 1:03 PM					372.2 -> 148...				Trazodone-D6	6.843	11207...				
Venlafaxine	278.2 -> 58.3	10/9/2018 1:03 PM					278.2 -> 260...				Venlafaxine-D6	5.939	955186				
Zolpidem	308.2 -> 235...	10/9/2018 1:03 PM					308.2 -> 263...				Zolpidem-D6	6.402	10435...				

Compound Method		p2 cal 1-2b			p2 cal 1-2b Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.				
Acetylfentanyl	323.2 -> 188...	10/9/2018 12:34 PM	6.388	17722	86.10	323.2 -> 105...	27.49	25615	Acetylfentanyl-D5	6.387	15031...						
alpha-hydroxymidazolam	342.1 -> 324...	10/9/2018 12:34 PM	6.446	56745	215.80	342.1 -> 203...	95.81	34424	alpha-hydroxymidazolam-...	6.426	317006						
Amtriptyline	278.2 -> 91.2	10/9/2018 12:34 PM	6.679	173444	171.64	278.2 -> 105...	166.96	83889	Amtriptyline-D3	6.657	493985						
Acetylnorfentanyl	219.1 -> 84.2	10/9/2018 12:34 PM	5.039	8421	61.62	219.1 -> 56.3	35.13	2117	Acetylnorfentanyl-D5	5.018	449113						
Carbamazepine	237.1 -> 193...	10/9/2018 12:34 PM	6.157	23508	103.92	237.1 -> 194...	702.16	2249...	Carbamazepine-13C6	6.156	11333...						
Chlordiazepoxide	300.1 -> 227...	10/9/2018 12:34 PM	6.573	22170	14046.81	300.1 -> 282...	50.97	19084	Chlordiazepoxide-D5	6.573	214169						
Zopiclone	389.1 -> 244...	10/9/2018 12:34 PM	6.423	16594	325.63	389.1 -> 216...	38.34	10152	Zopiclone-D4	6.403	217648						
Sufentanil	387.2 -> 238...	10/9/2018 12:34 PM	6.948	31145	102.42	387.2 -> 111...	95.46	26844	Sufentanil-D5	6.927	12852...						
Desipramine	267.2 -> 72.3	10/9/2018 12:34 PM	6.459	221161	273.95	267.2 -> 44.3	201.09	1151...	Desipramine-D3	6.438	10715...						
Doxepin	280.2 -> 107...	10/9/2018 12:34 PM	6.395	116234	77.72	280.2 -> 77.2	35.81	39536	Doxepin-D3	6.373	598193						
Estazolam	295.1 -> 267...	10/9/2018 12:34 PM	6.392	47090	246.03	295.1 -> 205...	500.96	44165	Estazolam-D5	6.370	236139						
Flunitrazepam	314.1 -> 268...	10/9/2018 12:34 PM	6.409	45027	299.49	314.1 -> 239...	71.60	17265	Flunitrazepam-D7	6.409	9652						
Flurazepam	388.2 -> 315...	10/9/2018 12:34 PM	6.586	180861	67048.53	388.2 -> 317...	14948...	40722	Zopiclone-D4	6.403	217648						
Imipramine	281.2 -> 86.2	10/9/2018 12:34 PM	6.616	374187	686.73	281.2 -> 58.3	Infinity	2010...	Imipramine-D3	6.595	10320...						
Levamisole	205.1 -> 91.2	10/9/2018 12:34 PM	5.469	47934	25.02	205.1 -> 178...	45.74	43449	Sufentanil-D5	6.927	12852...						
Maprotiline	278.2 -> 91.2	10/9/2018 12:34 PM	6.679	170155	78.07	278.2 -> 117...	54386...	54654	Amitriptyline-D3	6.657	493985						
MDA	180.1 -> 163...	10/9/2018 12:34 PM	5.126	57648	103.71	180.1 -> 105...	30.86	36552	MDA-D5	5.125	328743						
MDEA	208.1 -> 163...	10/9/2018 12:34 PM	5.406	113565	312.36	208.1 -> 105...	100.11	85468	MDEA-D6	5.406	541662						
MDMA	194.1 -> 163...	10/9/2018 12:34 PM	5.266	119836	497.84	194.1 -> 105...	45.96	75676	MDMA-D6	5.245	65863						
Meperidine	248.2 -> 220...	10/9/2018 12:34 PM	5.912	64252	65.68	248.2 -> 174...	72.20	36295	Meperidine-D4	5.911	323229						
Methyphenidate	234.2 -> 84.2	10/9/2018 12:34 PM	5.751	292274	292.21	234.2 -> 56.3	111.44	66509	Meperidine-D4	5.911	323229						
Midazolam	326.1 -> 223...	10/9/2018 12:34 PM	6.610	22764	275.37	326.1 -> 249...	1915.01	18964	Midazolam-D4	6.609	343664						
Normeperidine	234.1 -> 42.3	10/9/2018 12:34 PM	5.752	60887	85.56	234.1 -> 160...	303.15	47093	Normeperidine-D4	5.750	229331						
7-Aminoflunitrazepam	284.1 -> 135...	10/9/2018 12:34 PM	5.783	30999	170.78	284.1 -> 93.2	144.30	10381	7-aminoflunitrazepam-D7	5.762	139406						
Nortriptyline	264.2 -> 91.2	10/9/2018 12:34 PM	6.500	73570	Infinity	264.2 -> 233...	Infinity	71067	Nortriptyline-D3	6.499	327512						
Phenazepam	349.0 -> 206...	10/9/2018 12:34 PM	6.486	36141	5751.02	349.0 -> 183...	685.89	24126	Phenazepam-D4	6.486	12925						
Phencyclidine	244.2 -> 86.2	10/9/2018 12:34 PM	6.054	191697	99.27	244.2 -> 91.1	160.24	1436...	Phencyclidine-D5	6.054	926618						
Phenytol	253.1 -> 104...	10/9/2018 12:34 PM	6.073	3298	37.19	253.1 -> 182...	1002.82	2866	Phenytol-D10	6.052	16480						
Pseudoephedrine	166.1 -> 148...	10/9/2018 12:34 PM	4.764	988137	1070.76	166.1 -> 133...	180.87	1893...	Pseudoephedrine-D3	4.764	476502						
Tapentadol	222.2 -> 107...	10/9/2018 12:34 PM	5.609	142223	145.36	222.2 -> 121...	116.65	54796	Tapentadol-D3	5.609	760248						
Zaleplon	306.1 -> 236...	10/9/2018 12:34 PM	6.227	55299	15818.23	306.1 -> 264...	441.44	39028	Zaleplon-D4	6.227	211524						

Compound Method		p2 negative control		p2 negative control Results			Qualifier 1 M...		Qualifier 1 R...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.	
Acetylfentanyl	323.2 -> 188...	10/9/2018 12:53 PM					323.2 -> 105...				Acetylfentanyl-D5	6.367	14965...	
alpha-hydroxymidazolam	342.1 -> 324...	10/9/2018 12:53 PM					342.1 -> 203...				alpha-hydroxymidazolam...	6.426	335702	
Amitriptyline	278.2 -> 91.2	10/9/2018 12:53 PM					278.2 -> 105...				Amitriptyline-D3	6.657	461602	
Acetylnorfentanyl	219.1 -> 84.2	10/9/2018 12:53 PM					219.1 -> 56.3				Acetylnorfentanyl-D5	5.018	455135	
Carbamazepine	237.1 -> 193...	10/9/2018 12:53 PM					237.1 -> 194...				Carbamazepine-13C6	6.136	11824...	
Chlordiazepoxide	300.1 -> 227...	10/9/2018 12:53 PM					300.1 -> 282...				Chlordiazepoxide-D5	6.553	233564	
Zopiclone	389.1 -> 244...	10/9/2018 12:53 PM					389.1 -> 216...				Zopiclone-D4	6.403	234885	
Sufentanil	387.2 -> 238...	10/9/2018 12:53 PM					387.2 -> 111...				Sufentanil-D5	6.927	12837...	
Desipramine	267.2 -> 72.3	10/9/2018 12:53 PM					267.2 -> 44.3				Desipramine-D3	6.438	11021...	
Doxepin	280.2 -> 107...	10/9/2018 12:53 PM					280.2 -> 77.2				Doxepin-D3	6.353	587629	
Estazolam	295.1 -> 267...	10/9/2018 12:53 PM					295.1 -> 205...				Estazolam-D5	6.370	263145	
Flunitrazepam	314.1 -> 268...	10/9/2018 12:53 PM					314.1 -> 239...				Flunitrazepam-D7	6.409	11322	
Flurazepam	388.2 -> 315...	10/9/2018 12:53 PM					388.2 -> 317...				Zopiclone-D4	6.403	234885	
Imipramine	281.2 -> 86.2	10/9/2018 12:53 PM					281.2 -> 58.3				Imipramine-D3	6.575	10435...	
Levamisole	205.1 -> 91.2	10/9/2018 12:53 PM					205.1 -> 178...				Sufentanil-D5	6.927	12837...	
Maprotiline	278.2 -> 91.2	10/9/2018 12:53 PM					278.2 -> 117...				Amitriptyline-D3	6.657	461602	
MDA	180.1 -> 163...	10/9/2018 12:53 PM					180.1 -> 105...				MDA-D5	5.125	336426	
MDEA	208.1 -> 163...	10/9/2018 12:53 PM					208.1 -> 105...				MDEA-D6	5.406	532336	
MDMA	194.1 -> 163...	10/9/2018 12:53 PM					194.1 -> 105...				MDMA-D6	5.245	67958	
Meperidine	248.2 -> 220...	10/9/2018 12:53 PM					248.2 -> 174...				Meperidine-D4	5.911	317281	
Methylphenidate	234.2 -> 84.2	10/9/2018 12:53 PM					234.2 -> 56.3				Meperidine-D4	5.911	317281	
Midazolam	326.1 -> 223...	10/9/2018 12:53 PM					326.1 -> 249...				Midazolam-D4	6.589	380182	
Normeperidine	234.1 -> 42.3	10/9/2018 12:53 PM					234.1 -> 160...				Normeperidine-D4	5.750	231760	
7-Aminoflunitrazepam	284.1 -> 135...	10/9/2018 12:53 PM		5.926	8.12		284.1 -> 93.2				7-aminoflunitrazepam-D7	5.762	155818	
Nortriptyline	264.2 -> 91.2	10/9/2018 12:53 PM					264.2 -> 233...				Nortriptyline-D3	6.479	338387	
Phenazepam	349.0 -> 206...	10/9/2018 12:53 PM					349.0 -> 183...				Phenazepam-D4	6.465	13836	
Phencyclidine	244.2 -> 86.2	10/9/2018 12:53 PM					244.2 -> 91.1				Phencyclidine-D5	6.054	860722	
Phenytol	253.1 -> 104...	10/9/2018 12:53 PM		5.911	15.50		253.1 -> 182...				Phenytol-D10	6.052	16546	
Pseudoephedrine	166.1 -> 148...	10/9/2018 12:53 PM					166.1 -> 133...				Pseudoephedrine-D3	4.764	444976	
Tapentadol	222.2 -> 107...	10/9/2018 12:53 PM					222.2 -> 121...				Tapentadol-D3	5.609	756492	
Zaleplon	306.1 -> 236...	10/9/2018 12:53 PM					306.1 -> 264...				Zaleplon-D4	6.227	219040	

Compound Method		p2 external control		p2 external control Results			Qualifier 1 M...		Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	RT	Resp.		
Acetylfentanyl	323.2 -> 188...	10/9/2018 1:13 PM					323.2 -> 105...				Acetylfentanyl-D5	6.387	14769...		
alpha-hydroxymidazolam	342.1 -> 324...	10/9/2018 1:13 PM					342.1 -> 203...				alpha-hydroxymidazolam...	6.426	353124		
Amiripryline	278.2 -> 91.2	10/9/2018 1:13 PM					278.2 -> 105...				Amiripryline-D3	6.657	422035		
Acetylnorfentanyl	219.1 -> 84.2	10/9/2018 1:13 PM					219.1 -> 56.3				Acetylnorfentanyl-D5	5.018	450198		
Carbamazepine	237.1 -> 193...	10/9/2018 1:13 PM					237.1 -> 194...				Carbamazepine-13C6	6.156	11654...		
Chlordiazepoxide	300.1 -> 227...	10/9/2018 1:13 PM					300.1 -> 282...				Chlordiazepoxide-D5	6.553	236314		
Zopiclone	389.1 -> 244...	10/9/2018 1:13 PM					389.1 -> 216...				Zopiclone-D4	6.403	233717		
Sufentanil	387.2 -> 238...	10/9/2018 1:13 PM					387.2 -> 111...				Sufentanil-D5	6.927	12438...		
Desipramine	267.2 -> 72.3	10/9/2018 1:13 PM					267.2 -> 44.3				Desipramine-D3	6.438	11193...		
Doxepin	280.2 -> 107...	10/9/2018 1:13 PM					280.2 -> 77.2				Doxepin-D3	6.373	597001		
Estazolam	295.1 -> 267...	10/9/2018 1:13 PM					295.1 -> 205...				Estazolam-D5	6.370	264441		
Flunitrazepam	314.1 -> 268...	10/9/2018 1:13 PM					314.1 -> 239...				Flunitrazepam-D7	6.409	11411		
Flurazepam	388.2 -> 315...	10/9/2018 1:13 PM					388.2 -> 317...				Zopiclone-D4	6.403	233717		
Imipramine	281.2 -> 86.2	10/9/2018 1:13 PM					281.2 -> 58.3				Imipramine-D3	6.595	10245...		
Levamisole	205.1 -> 91.2	10/9/2018 1:13 PM					205.1 -> 178...				Sufentanil-D5	6.927	12438...		
Maprotiline	278.2 -> 91.2	10/9/2018 1:13 PM					278.2 -> 117...				Amiripryline-D3	6.657	422035		
MDA	180.1 -> 163...	10/9/2018 1:13 PM					180.1 -> 105...				MDA-D5	5.125	334470		
MDEA	208.1 -> 163...	10/9/2018 1:13 PM					208.1 -> 105...				MDEA-D6	5.406	528179		
MDMA	194.1 -> 163...	10/9/2018 1:13 PM					194.1 -> 105...				MDEA-D6	5.245	64863		
Meperidine	248.2 -> 220...	10/9/2018 1:13 PM					248.2 -> 174...				Meperidine-D4	5.911	320500		
Methyphenidate	234.2 -> 84.2	10/9/2018 1:13 PM					234.2 -> 56.3				Meperidine-D4	5.911	320500		
Midazolam	326.1 -> 223...	10/9/2018 1:13 PM					326.1 -> 249...				Midazolam-D4	6.589	363417		
Normeperidine	234.1 -> 42.3	10/9/2018 1:13 PM					234.1 -> 160...				Normeperidine-D4	5.750	228432		
7-Aminoflunitrazepam	284.1 -> 135...	10/9/2018 1:13 PM					284.1 -> 93.2				7-aminoflunitrazepam-D7	5.762	143215		
Nortriptyline	264.2 -> 91.2	10/9/2018 1:13 PM	6.500	768876	Infinity		264.2 -> 233...	Infini...	6978...		Nortriptyline-D3	6.479	317453		
Phenazepam	349.0 -> 206...	10/9/2018 1:13 PM					349.0 -> 183...				Phenazepam-D4	6.465	13675		
Phencyclidine	244.2 -> 86.2	10/9/2018 1:13 PM					244.2 -> 91.1				Phencyclidine-D5	6.054	924241		
Phenytol	253.1 -> 104...	10/9/2018 1:13 PM	5.911	2133	13.08		253.1 -> 182...				Phenytol-D10	6.052	19387		
Pseudoephedrine	166.1 -> 148...	10/9/2018 1:13 PM					166.1 -> 133...				Pseudoephedrine-D3	4.764	525321		
Tapentadol	222.2 -> 107...	10/9/2018 1:13 PM					222.2 -> 121...				Tapentadol-D3	5.609	767239		
Zaleplon	306.1 -> 236...	10/9/2018 1:13 PM					306.1 -> 264...				Zaleplon-D4	6.227	226555		

AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 10/9/18

Analyst: Anne Nord

Plate lot#: 0539904

Plate Expiration: 09/10/2019

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

Mobile phase B: 0.1% Formic acid in MeOH
MTBE Hexane

Blank Blood Lot: 18G20707

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: k52558** 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: 100918 am 25-26 Batch Name: cann screen
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/- .100 min whichever is greater of the average retention time of the calibrators.
- 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: *dropped 10 ng cal from THC curve the primary peak is cut off.*



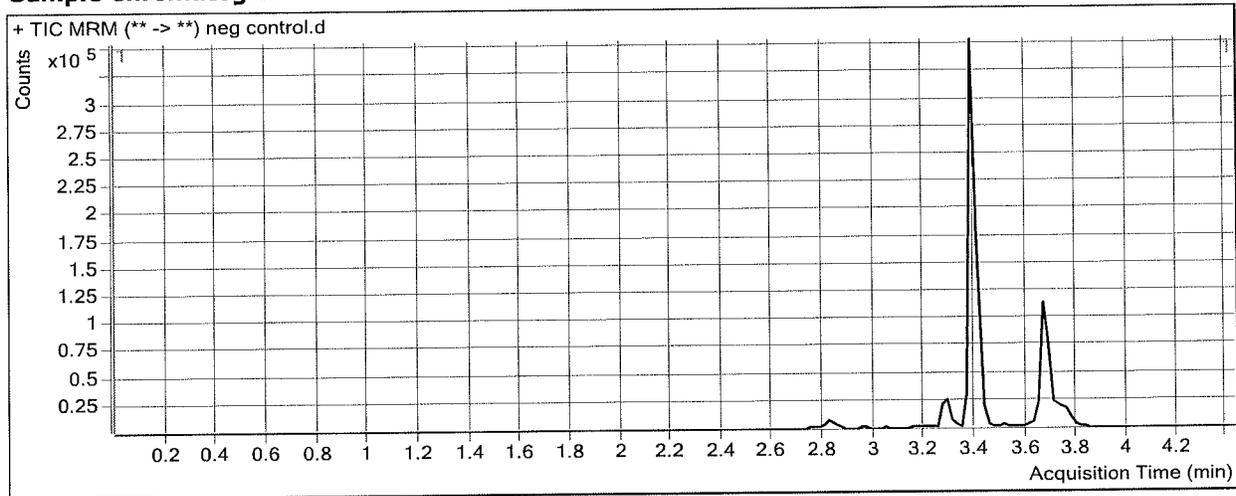
ISP FORENSICS - Cd'A Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-10 00:08 **Data File** neg control.d
Sample Type Sample **Sample Name** neg control
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-A2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



ISP FORENSICS - Cd'A

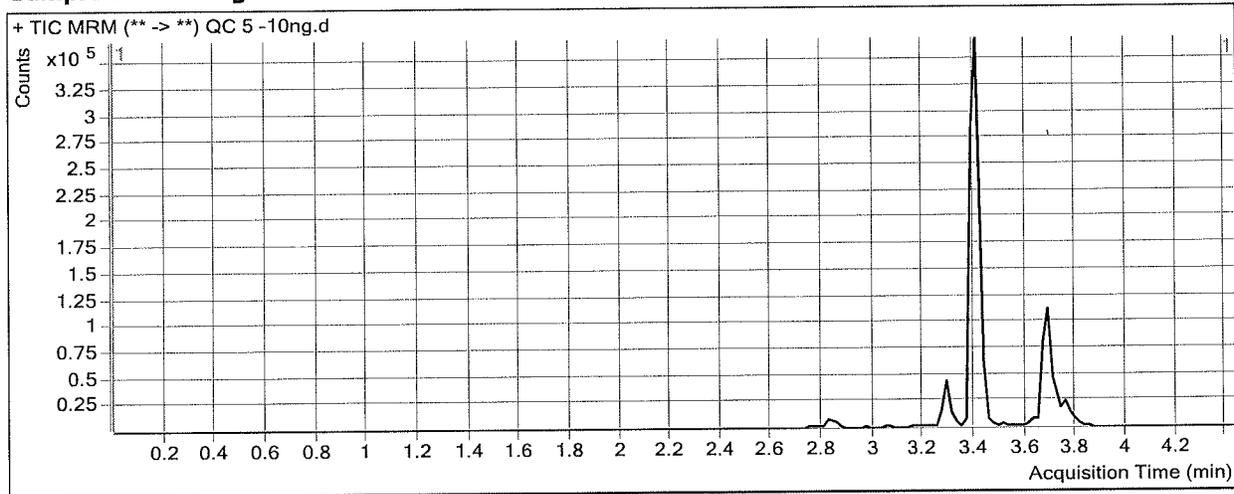
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:55 **Data File** QC 5 -10ng.d
Sample Type QC **Sample Name** QC 5 -10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen 5 ng THC, THC-OH, 10 ng C-TH

Sample Chromatogram



Results

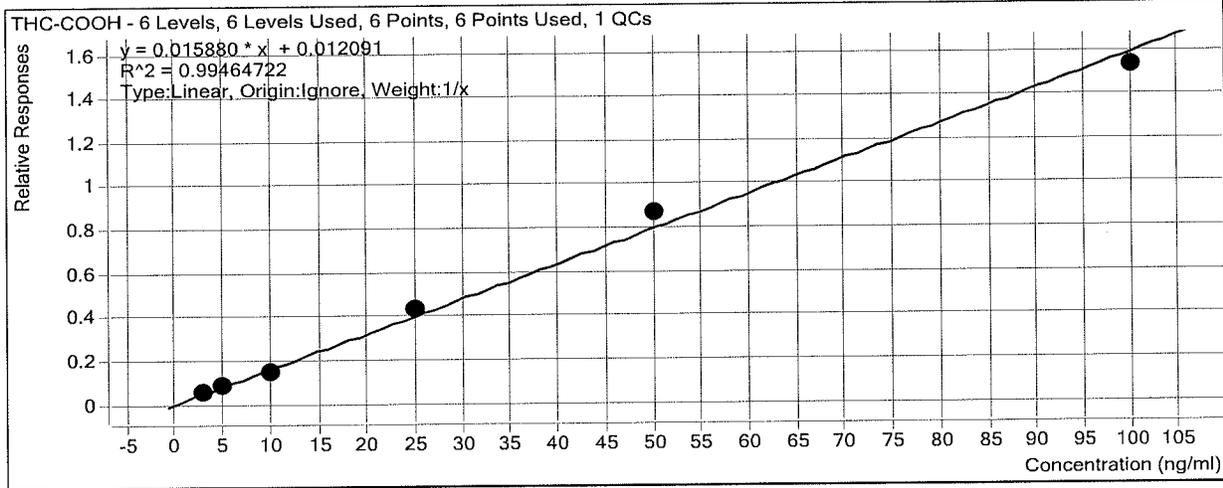
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.286	14942	82462	0.1812	10.6491
THC-OH	3.412	32806	827099	0.0397	5.0218
THC	3.760	1454	33620	0.0433	4.7600

ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
10/11/2018 1:18 PM **Analyst Name** ISP TOX

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



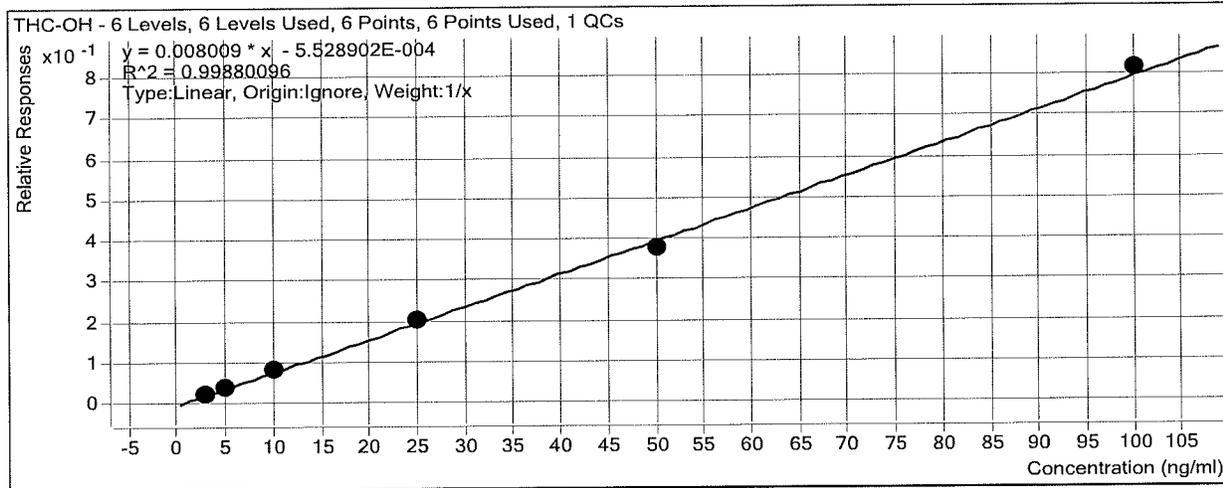
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	3.1	103.3
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.9	98.6
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	8.8	87.9
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	26.7	106.9
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	53.9	107.7
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	95.6	95.6
QC 5 -10ng	7	<input type="checkbox"/>	10	10.6	106.5

ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
10/11/2018 1:18 PM **Analyst Name** ISP TOX

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



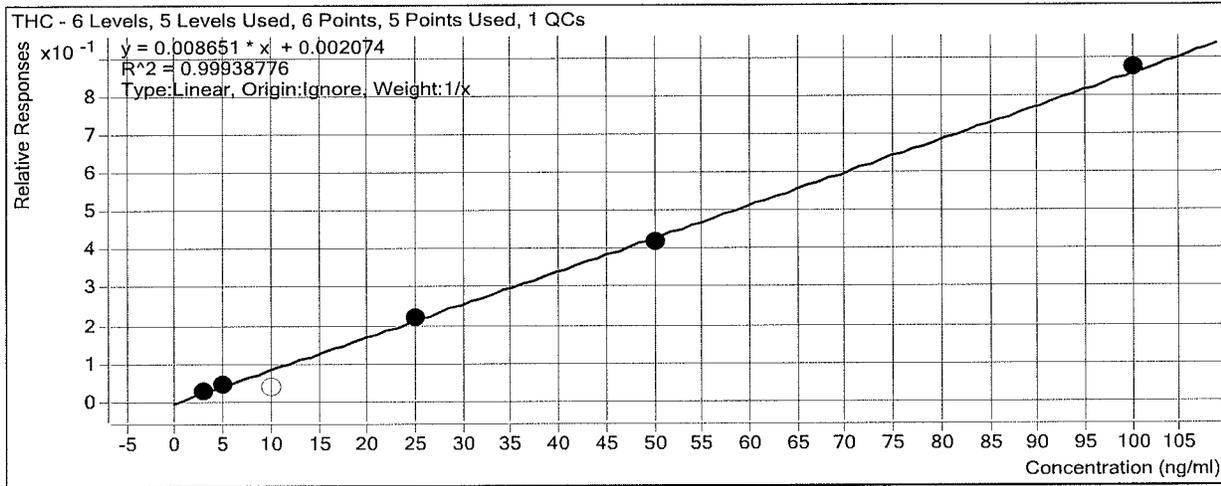
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	3.0	101.4
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.9	98.1
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.2	102.0
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.4	101.5
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	47.5	95.1
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	101.9	101.9
QC 5 -10ng	7	<input type="checkbox"/>	5	5.0	100.4

ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
10/11/2018 1:18 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	3.2	105.8
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.7	93.8
cal 3 - 10ng	3	<input type="checkbox"/>	10	4.4	43.5
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.5	102.1
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.6	97.3
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	101.0	101.0
QC 5 -10ng	7	<input type="checkbox"/>	5	4.8	95.2

Dropped cal 3 top of primary peak cut off. ~~⊗~~

ISP FORENSICS - Cd'A

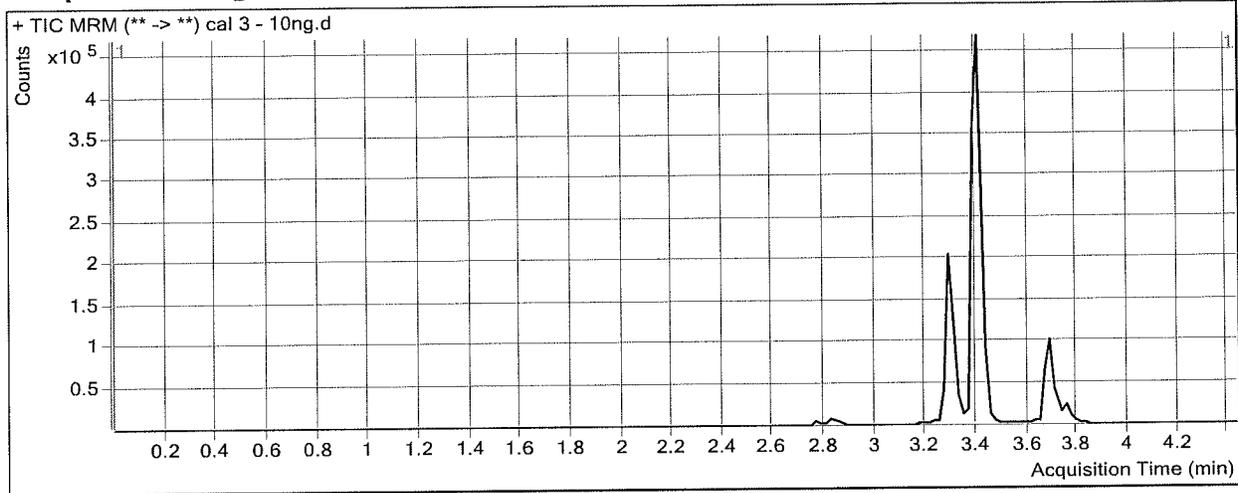
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:22 **Data File** cal 3 - 10ng.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1-d1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.306	65876	434545	0.1516	8.7852
THC-OH	3.412	83424	1027847	0.0812	10.2037
THC	3.780	1178	29652	0.0397	4.3532

ISP FORENSICS - Cd'A

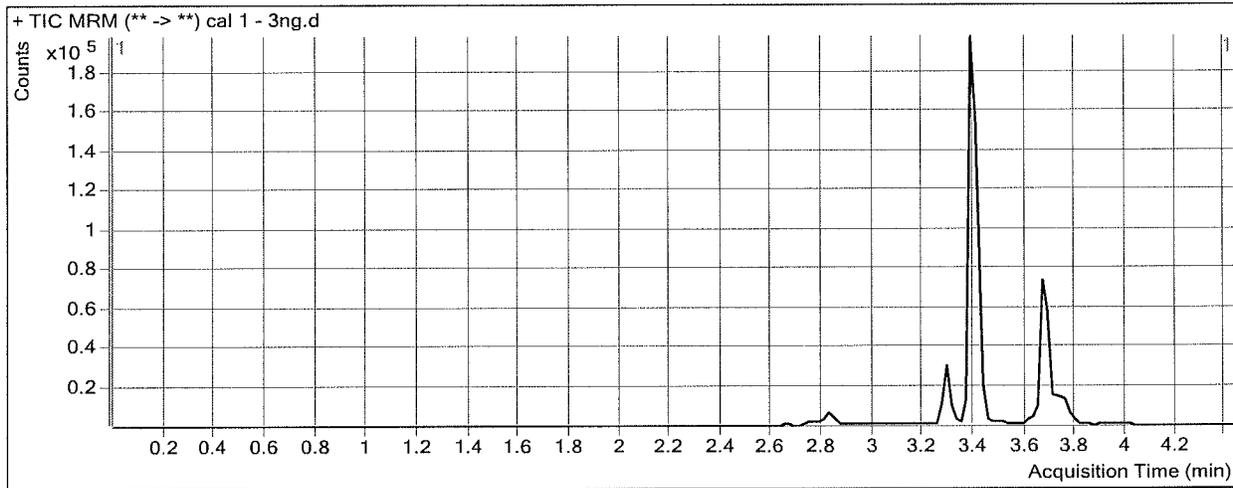
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:08 **Data File** cal 1 - 3ng.d
Sample Type Calibration **Sample Name** cal 1 - 3ng
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-COOH	3.286	3782	61672	0.0613	3.1002
THC-OH	3.392	10740	451287	0.0238	3.0407
THC	3.760	624	21139	0.0295	3.1746

ISP FORENSICS - Cd'A

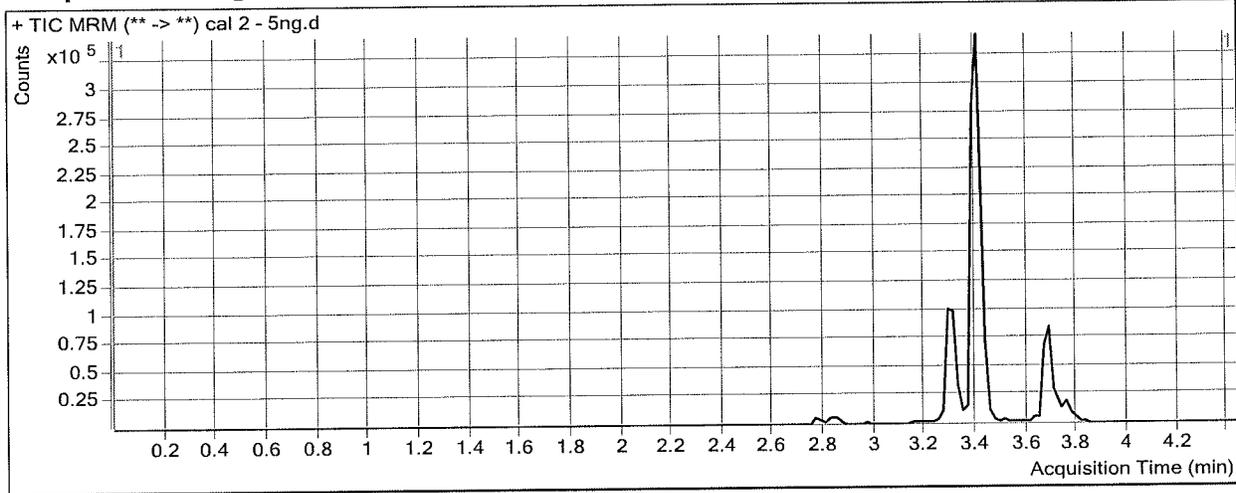
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:15 **Data File** cal 2 - 5ng.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.306	25974	287401	0.0904	4.9298
THC-OH	3.412	31359	810094	0.0387	4.9026
THC	3.760	1135	26593	0.0427	4.6920

ISP FORENSICS - Cd'A

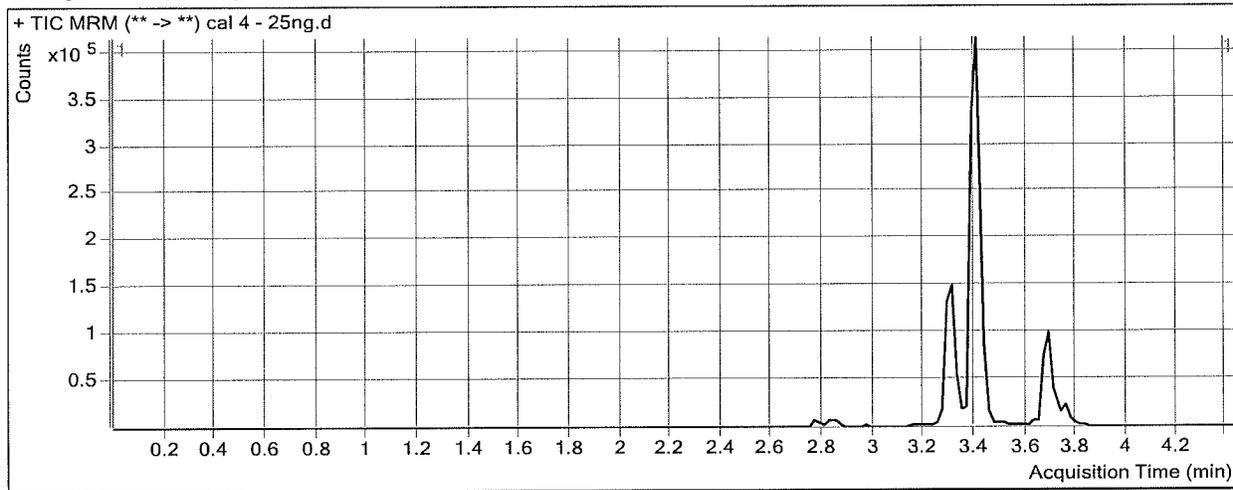
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:28 **Data File** cal 4 - 25ng.d
Sample Type Calibration **Sample Name** cal 4 - 25ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.306	127446	292047	0.4364	26.7195
THC-OH	3.412	166274	820075	0.2028	25.3864
THC	3.760	5825	26139	0.2229	25.5238

ISP FORENSICS - Cd'A

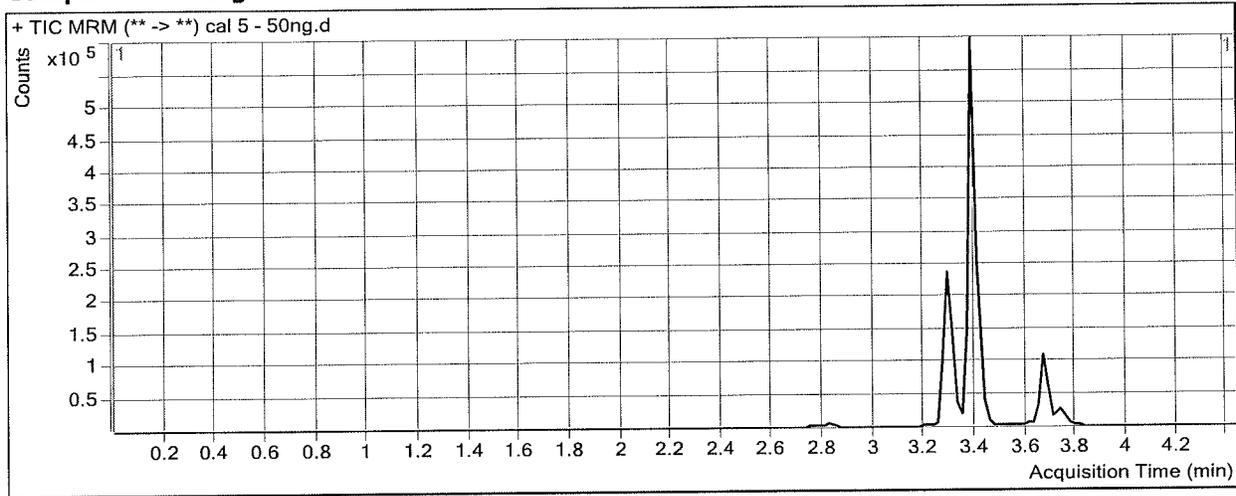
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:35 **Data File** cal 5 - 50ng.d
Sample Type Calibration **Sample Name** cal 5 - 50ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1-f1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.286	260816	300654	0.8675	53.8678
THC-OH	3.392	318972	838957	0.3802	47.5435
THC	3.740	11301	26728	0.4228	48.6370

ISP FORENSICS - Cd'A

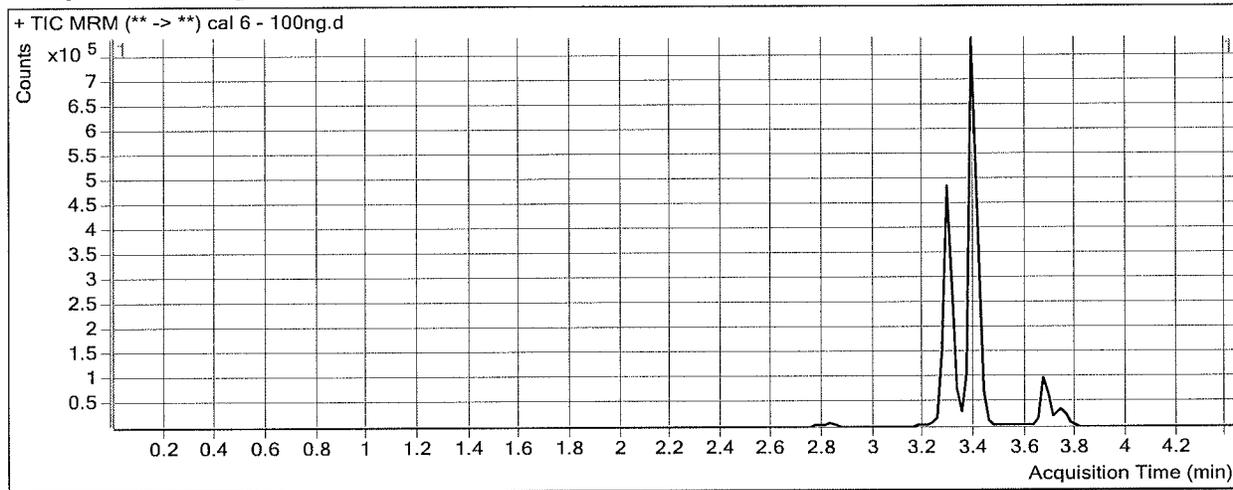
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\100918 AM 25-26\QuantResults\cann screen.batch.bin
Analysis Time 10/11/2018 1:18 PM **Analyst Name** ISP Tox
Report Time 10/11/2018 1:19 PM **Reporter Name** ISP Tox
Last Calib Update 10/11/2018 1:18 PM **Batch State** Processed

Analysis Info

Acq Time 2018-10-09 23:41 **Data File** cal 6 - 100ng.d
Sample Type Calibration **Sample Name** cal 6 - 100ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.286	609461	398301	1.5302	95.5975
THC-OH	3.392	714852	876364	0.8157	101.9232
THC	3.740	23478	26815	0.8755	100.9727