
























AM 7 central file available upon request.

REVIEWED
By Anne Nord at 2:33 pm, Feb 15, 2019

2/1/2019

Worklist: 2922

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-0962	1.1	138743	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-6227	1	137029	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-0236	1	137017	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-0270	3	137171	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-0306	2	137429	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-0336	1	137515	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0077	2	136264	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0088	1	136308	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0128	1	136691	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0128	2	136695	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0222	1	137396	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0232	1	137421	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0233	1	137424	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0234	1	137432	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0235	1	137435	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0239	1	137545	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0257	1	137715	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0268	1	137784	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0283	1	137836	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0284	1	137841	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0302	1	138044	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0302	2	138047	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-0311	1	138105	AM 25 Blood Multi-Drug Screen by LC-QQQ	

A

Worklist: 2922

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
P2019-0337	1	138342	AM 25 Blood Multi-Drug Screen by LC-QQQ
P2019-0346	1	138386	AM 25 Blood Multi-Drug Screen by LC-QQQ



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

8

Extraction Date: 2/14/19

Analyst: Sarah Pickle

Plate lot#: 0543908

Plate Expiration: 11/28/19

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: 445283-1

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

LCMS-QQQ ID: ~~59740~~ Model: G6470A/7120A SN: SG1833G103/DEBA202671

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: Data Path Name: _____

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: #16** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 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: 067104
- 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: 067103
- 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: 021419 MDS SP THCS PV TS
Worklist path: p1, p2
- 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. Calculated concentration >5, discretionary range 2-5.
- 4. Did all QCs pass for each analyte? Y / N Yes
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:



Idaho State Police Forensic Services

D

AM #25 Blood Multi-Drug Screen by LCMS-QQQ

Methanol External Control Solution (Lot: 042618)

100 ul of 1mg/mL stock was added of each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	177145	
Oxycodone	Cerilliant	FE01181701	March 2022
Diazepam	Cerilliant	FE05201602	June 2021
Metoprolol	Cerilliant	FN06091510	July 2020
Meperidine	Cerilliant	FE01271602	June 2021
Prepared:	04/26/18		
Prepared By:	Tamara Salazar		
Expires:	04/26/19		

Blood External Control Solution (Lot: WS122618)

100 ul of methanol external control solution was added to 9900 ul of blood.

Approximately 50ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution		042618
Prepared:	12/26/18	
Prepared by:	Tamara Salazar	
Expires:	04/26/19	

Compound Method		p1 cal				p1 cal				Qualifier 1 M...				Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	Transition	MI	S/N	Area	Name	RT	Resp.				
Quetiapine	384.2 -> 253...	2/14/2019 1:46 PM	4.759	1526967	10.0000	15908.69		384.2 -> 221...				55826.47	904721	Quetiapine-D8	4.725	1810346				
Sertraline	306.1 -> 158...	2/14/2019 1:46 PM	4.678	630857	10.0000	195.80		306.1 -> 275...				28651.51	567940	Sertraline-D3	4.678	2756393				
Temazepam	301.1 -> 255...	2/14/2019 1:46 PM	4.635	342548	10.0000	1243.95		301.1 -> 283...				169.40	108401	Temazepam-D5	4.618	1571395				
Tramadol	264.2 -> 58.3	2/14/2019 1:46 PM	3.444	1965910	10.0000	35888.59		264.2 -> 43.3				105.43	66242	Tramadol-13C-D3	3.435	9976376				
Trazodone	372.2 -> 176...	2/14/2019 1:46 PM	4.947	1292211	10.0000	16598.61		372.2 -> 148...				4065.68	10261...	Trazodone-D6	4.921	5103195				
Venlafaxine	278.2 -> 58.3	2/14/2019 1:46 PM	3.825	1866828	10.0000	41091.30		278.2 -> 260...				11601.59	688728	Venlafaxine-D6	3.816	9304466				
Zolpidem	308.2 -> 235...	2/14/2019 1:46 PM	4.481	1964665	10.0000			308.2 -> 263...				213.13	587505	Zolpidem-D6	4.463	9498112				
Mitragynine	399.2 -> 174...	2/14/2019 1:46 PM	4.486	347725	10.0000	2908.85		399.2 -> 238...				45123.63	131973	Quetiapine-D8	4.725	1810346				

Compound Method			p1 ext ctrl				p1 ext ctrl				Qualifier 1 M...				Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	Area	Name	Area	RT	Resp.	Name	Area	RT	Resp.		
6-MAM	328.2 -> 165...	2/14/2019 2:14 PM						328.2 -> 211...				6-MAM-D6		3.022	298384						
7-aminoclonazepam	286.1 -> 121...	2/14/2019 2:14 PM						286.1 -> 222...				7-Aminoclonazepam-D4		3.517	325374						
Benzoyllecgonine	290.1 -> 168...	2/14/2019 2:14 PM						290.1 -> 105...				Benzoyllecgonine-D8		3.297	925172						
Lorazepam	321.0 -> 303...	2/14/2019 2:14 PM	4.368	26884	5.6529			321.0 -> 229...				Lorazepam-D4		4.393	106278						
a-hydroxyalprazolam	325.1 -> 297...	2/14/2019 2:14 PM						325.1 -> 215...				a-hydroxyalprazolam-D5		4.462	66133						
alpha-PVP	232.2 -> 91.0	2/14/2019 2:14 PM						232.2 -> 77.1				alpha-PVP-d8		3.631	3391050						
Alprazolam	309.1 -> 281...	2/14/2019 2:14 PM						309.1 -> 205...				Alprazolam-D5		4.557	878972						
Amphetamine	136.1 -> 91.1	2/14/2019 2:14 PM						136.1 -> 119...				Amphetamine-D11		2.868	994881						
Cocaine	304.2 -> 182...	2/14/2019 2:14 PM						304.2 -> 105...				Cocaine-D3		3.643	5602238						
Bupropion	240.1 -> 184...	2/14/2019 2:14 PM						240.1 -> 131...				Bupropion-D9		3.938	3275876						
Carisoprodol	261.2 -> 176...	2/14/2019 2:14 PM						261.2 -> 55.3				Carisoprodol-D7		4.168	1298422						
Citalopram	325.2 -> 109...	2/14/2019 2:14 PM						325.2 -> 262...				Citalopram-D6		4.128	3651038						
Clonazepam	316.1 -> 269...	2/14/2019 2:14 PM						316.1 -> 213...				Clonazepam-D4		4.411	65478						
Codeine	300.2 -> 215...	2/14/2019 2:14 PM						300.2 -> 165...				Codeine-D6		2.921	455456						
Cyclobenzaprine	276.2 -> 214...	2/14/2019 2:14 PM						276.2 -> 231...				Cyclobenzaprine-D3		4.475	3041773						
Dextromethorphan	272.2 -> 171...	2/14/2019 2:14 PM						272.2 -> 147...				Dextromethorphan-D3		4.150	3043619						
Dextropropion	258.2 -> 157...	2/14/2019 2:14 PM						258.2 -> 133...				Dextropropion-D3		3.410	3786263						
Diazepam	285.1 -> 193...	2/14/2019 2:14 PM	4.807	1837544	99.9004	6640.37		285.1 -> 153...			16993.68	Diazepam-D5	15878...	4.798	911499						
Dihydrocodeine	302.2 -> 198...	2/14/2019 2:14 PM						302.2 -> 128...				Dihydrocodeine-D6		2.776	1420463						
Diphenhydramine	256.2 -> 167...	2/14/2019 2:14 PM						256.2 -> 152...				Diphenhydramine-D3		4.100	104441...						
Doxylamine	271.2 -> 182...	2/14/2019 2:14 PM						271.2 -> 167...				Doxylamine-D5		3.647	101961...						
EDDP	278.2 -> 234...	2/14/2019 2:14 PM						278.2 -> 249...				EDDP-D3		4.081	323098...						
Fentanyl	337.2 -> 105...	2/14/2019 2:14 PM						337.2 -> 188...				Fentanyl-D5		4.435	3808078						
Fluoxetine	310.1 -> 44.3	2/14/2019 2:14 PM						310.1 -> 148...				Fluoxetine-D6		4.378	3802599						
Buprenorphine	468.3 -> 396...	2/14/2019 2:14 PM						468.3 -> 55.1				Buprenorphine-D4		5.189	597908						
Hydrocodone	300.2 -> 198...	2/14/2019 2:14 PM						300.2 -> 128...				Hydrocodone-D6		3.150	1819258						
Hydromorphone	286.2 -> 184...	2/14/2019 2:14 PM						286.2 -> 157...				Hydromorphone-D6		2.541	1052344						
Ketamine	238.1 -> 125...	2/14/2019 2:14 PM						238.1 -> 220...				Ketamine-D4		3.896	3689288						
Metoprolol	268.2 -> 116...	2/14/2019 2:14 PM	3.444	1545216	89.6268	576891.13		268.2 -> 56.3			13440.98	Carisoprodol-D7	14615...	4.168	1298422						
Mirtazapine	266.2 -> 195...	2/14/2019 2:14 PM						266.2 -> 72.3				Carisoprodol-D7		4.168	1298422						
Meprobamate	219.1 -> 158...	2/14/2019 2:14 PM						219.1 -> 97.1				Meprobamate-D7		3.598	386212						
Methadone	310.2 -> 265...	2/14/2019 2:14 PM						310.2 -> 105...				Methadone-D9		4.412	7035768						
Methamphetamine	150.1 -> 91.1	2/14/2019 2:14 PM	3.004	224129	2.7477	248.23		150.1 -> 119...			∞	Methamphetamine-D11		2.978	2634092						
Morphine	286.2 -> 201...	2/14/2019 2:14 PM						286.2 -> 165...				Morphine-D6		2.356	112295						
Norbuprenorphine	414.3 -> 101...	2/14/2019 2:14 PM						414.3 -> 57.3				Norbuprenorphine-D3		3.914	144924						
Nordiazepam	271.1 -> 140...	2/14/2019 2:14 PM						271.1 -> 208...				Nordiazepam-D5		4.655	238438						
Norfentanyl	233.2 -> 84.2	2/14/2019 2:14 PM						233.2 -> 55.3				Norfentanyl-D5		3.309	4246963						
Norhydrocodone	286.2 -> 199...	2/14/2019 2:14 PM						286.2 -> 171...				Norhydrocodone-D3		2.957	901586						
Noroxycodone	302.1 -> 284...	2/14/2019 2:14 PM						302.1 -> 186...				Noroxycodone-D3		2.895	800479						
O-desmethyl-tramadol	250.2 -> 58.3	2/14/2019 2:14 PM						250.2 -> 42.3				O-desmethyl-tramadol...		2.909	9067373						
Oxazepam	287.1 -> 240...	2/14/2019 2:14 PM	4.679	11664	2.0909	1.83		287.1 -> 268...			1.53	Oxazepam-D5	16765	4.474	311797						
Oxycodone	316.2 -> 298...	2/14/2019 2:14 PM	3.005	4460043	87.3289	371.42		316.2 -> 241...			527.48	Oxycodone-D6	13952...	2.971	1967879						
Oxymorphone	302.1 -> 284...	2/14/2019 2:14 PM						302.1 -> 227...				Oxymorphone-D3		2.397	493488						
Phentermine	150.1 -> 65.2	2/14/2019 2:14 PM						150.1 -> 133...				Phentermine-D5		3.139	7328804						
Promethazine	285.1 -> 86.2	2/14/2019 2:14 PM						285.1 -> 71.3				Promethazine-D3		4.559	8785818						

Compound Method		p1 ext ctrl			p1 ext ctrl			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	Area	Name	RT	Resp.			
Quetiapine	384.2 -> 253...	2/14/2019 2:14 PM						384.2 -> 221...				Quetiapine-D8	4.725	1575507			
Sertraline	306.1 -> 158...	2/14/2019 2:14 PM						306.1 -> 275...				Sertraline-D3	4.678	2255113			
Temazepam	301.1 -> 255...	2/14/2019 2:14 PM						301.1 -> 283...				Temazepam-D5	4.627	1434476			
Tramadol	264.2 -> 58.3	2/14/2019 2:14 PM						264.2 -> 43.3				Tramadol-13C-D3	3.435	9069430			
Trazodone	372.2 -> 176...	2/14/2019 2:14 PM						372.2 -> 148...				Trazodone-D6	4.921	4176017			
Venlafaxine	278.2 -> 58.3	2/14/2019 2:14 PM						278.2 -> 260...				Venlafaxine-D6	3.816	8454799			
Zolpidem	308.2 -> 235...	2/14/2019 2:14 PM						308.2 -> 263...				Zolpidem-D6	4.463	9040599			
Mitragynine	399.2 -> 174...	2/14/2019 2:14 PM						399.2 -> 238...				Quetiapine-D8	4.725	1575507			

Compound Method			p1 negative				p1 negative				Qualifier 1 M...				Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	Area	Name	RT	Resp.	Area	Name	RT	Resp.			
6-MAM	328.2 -> 165...	2/14/2019 2:00 PM						328.2 -> 211...				6-MAM-D6	3.022	321247		6-MAM-D6	3.022	321247			
7-aminoclonazepam	286.1 -> 121...	2/14/2019 2:00 PM						286.1 -> 222...				7-Aminoclonazepam-D4	3.517	539720		7-Aminoclonazepam-D4	3.517	539720			
Benzoylcegonine	290.1 -> 168...	2/14/2019 2:00 PM						290.1 -> 105...				Benzoylcegonine-D8	3.297	934972		Benzoylcegonine-D8	3.297	934972			
Lorazepam	321.0 -> 303...	2/14/2019 2:00 PM	4.556	10264	2.3922	2.52		321.0 -> 229...		45.96	20405	Lorazepam-D4	4.393	95881		Lorazepam-D4	4.393	95881			
a-hydroxyalprazolam	325.1 -> 297...	2/14/2019 2:00 PM						325.1 -> 215...				a-hydroxyalprazolam-D5	4.462	72820		a-hydroxyalprazolam-D5	4.462	72820			
alpha-PVP	232.2 -> 91.0	2/14/2019 2:00 PM						232.2 -> 77.1				alpha-PVP-d8	3.631	3494921		alpha-PVP-d8	3.631	3494921			
Alprazolam	309.1 -> 281...	2/14/2019 2:00 PM						309.1 -> 205...				Alprazolam-D5	4.557	923847		Alprazolam-D5	4.557	923847			
Amphetamine	136.1 -> 91.1	2/14/2019 2:00 PM						136.1 -> 119...				Amphetamine-D11	2.877	1244862		Amphetamine-D11	2.877	1244862			
Cocaine	304.2 -> 182...	2/14/2019 2:00 PM						304.2 -> 105...				Cocaine-D3	3.643	5447719		Cocaine-D3	3.643	5447719			
Bupropion	240.1 -> 184...	2/14/2019 2:00 PM						240.1 -> 131...				Bupropion-D9	3.938	3339285		Bupropion-D9	3.938	3339285			
Carisoprodol	261.2 -> 176...	2/14/2019 2:00 PM						261.2 -> 55.3				Carisoprodol-D7	4.168	1262388		Carisoprodol-D7	4.168	1262388			
Citalopram	325.2 -> 109...	2/14/2019 2:00 PM						325.2 -> 262...				Citalopram-D6	4.128	3528066		Citalopram-D6	4.128	3528066			
Clonazepam	316.1 -> 269...	2/14/2019 2:00 PM						316.1 -> 213...				Clonazepam-D4	4.411	65568		Clonazepam-D4	4.411	65568			
Codeine	300.2 -> 215...	2/14/2019 2:00 PM						300.2 -> 165...				Codeine-D6	2.921	440346		Codeine-D6	2.921	440346			
Cyclobenzaprine	276.2 -> 214...	2/14/2019 2:00 PM						276.2 -> 231...				Cyclobenzaprine-D3	4.475	3092234		Cyclobenzaprine-D3	4.475	3092234			
Dextromethorphan	272.2 -> 171...	2/14/2019 2:00 PM						272.2 -> 147...				Dextromethorphan-D3	4.150	2888706		Dextromethorphan-D3	4.150	2888706			
Dextropropofol	258.2 -> 157...	2/14/2019 2:00 PM						258.2 -> 133...				Dextropropofol-D3	3.419	3747070		Dextropropofol-D3	3.419	3747070			
Diazepam	285.1 -> 193...	2/14/2019 2:00 PM						285.1 -> 153...				Diazepam-D5	4.798	1064343		Diazepam-D5	4.798	1064343			
Dihydrocodeine	302.2 -> 198...	2/14/2019 2:00 PM						302.2 -> 128...				Dihydrocodeine-D6	2.776	1359471		Dihydrocodeine-D6	2.776	1359471			
Diphenhydramine	256.2 -> 167...	2/14/2019 2:00 PM						256.2 -> 152...				Diphenhydramine-D3	4.100	106236...		Diphenhydramine-D3	4.100	106236...			
Doxylamine	271.2 -> 182...	2/14/2019 2:00 PM						271.2 -> 167...				Doxylamine-D5	3.647	100245...		Doxylamine-D5	3.647	100245...			
EDDP	278.2 -> 234...	2/14/2019 2:00 PM						278.2 -> 249...				EDDP-D3	4.081	311436...		EDDP-D3	4.081	311436...			
Fentanyl	337.2 -> 105...	2/14/2019 2:00 PM						337.2 -> 188...				Fentanyl-D5	4.435	3778076		Fentanyl-D5	4.435	3778076			
Fluoxetine	310.1 -> 44.3	2/14/2019 2:00 PM						310.1 -> 148...				Fluoxetine-D6	4.378	4015107		Fluoxetine-D6	4.378	4015107			
Buprenorphine	468.3 -> 396...	2/14/2019 2:00 PM						468.3 -> 55.1				Buprenorphine-D4	5.189	566016		Buprenorphine-D4	5.189	566016			
Hydrocodone	300.2 -> 198...	2/14/2019 2:00 PM						300.2 -> 128...				Hydrocodone-D6	3.150	1745852		Hydrocodone-D6	3.150	1745852			
Hydromorphone	286.2 -> 184...	2/14/2019 2:00 PM						286.2 -> 157...				Hydromorphone-D6	2.541	1039708		Hydromorphone-D6	2.541	1039708			
Ketamine	238.1 -> 125...	2/14/2019 2:00 PM						238.1 -> 220...				Ketamine-D4	3.896	3557069		Ketamine-D4	3.896	3557069			
Metoprolol	268.2 -> 116...	2/14/2019 2:00 PM						268.2 -> 56.3				Carisoprodol-D7	4.168	1262388		Carisoprodol-D7	4.168	1262388			
Mirtazapine	266.2 -> 195...	2/14/2019 2:00 PM						266.2 -> 72.3				Carisoprodol-D7	4.168	1262388		Carisoprodol-D7	4.168	1262388			
Meprobamate	219.1 -> 158...	2/14/2019 2:00 PM						219.1 -> 97.1				Meprobamate-D7	3.598	347576		Meprobamate-D7	3.598	347576			
Methadone	310.2 -> 265...	2/14/2019 2:00 PM						310.2 -> 105...				Methadone-D9	4.412	6748851		Methadone-D9	4.412	6748851			
Methamphetamine	150.1 -> 91.1	2/14/2019 2:00 PM	3.004	224587	2.2893	∞		150.1 -> 119...		393.10	77570	Methamphetamine-D11	2.978	3167984		Methamphetamine-D11	2.978	3167984			
Morphine	286.2 -> 201...	2/14/2019 2:00 PM						286.2 -> 165...				Morphine-D6	2.348	162341		Morphine-D6	2.348	162341			
Norbuprenorphine	414.3 -> 101...	2/14/2019 2:00 PM						414.3 -> 57.3				Norbuprenorphine-D3	3.923	144264		Norbuprenorphine-D3	3.923	144264			
Nordiazepam	271.1 -> 140...	2/14/2019 2:00 PM						271.1 -> 208...				Nordiazepam-D5	4.655	258920		Nordiazepam-D5	4.655	258920			
Norfentanyl	233.2 -> 84.2	2/14/2019 2:00 PM						233.2 -> 55.3				Norfentanyl-D5	3.309	4420122		Norfentanyl-D5	3.309	4420122			
Norhydrocodone	286.2 -> 199...	2/14/2019 2:00 PM						286.2 -> 171...				Norhydrocodone-D3	2.957	935552		Norhydrocodone-D3	2.957	935552			
Noroxycodone	302.1 -> 284...	2/14/2019 2:00 PM						302.1 -> 186...				Noroxycodone-D3	2.895	725997		Noroxycodone-D3	2.895	725997			
O-desmethyl-tramadol	250.2 -> 58.3	2/14/2019 2:00 PM						250.2 -> 42.3				O-desmethyl-tramadol...	2.909	8709349		O-desmethyl-tramadol...	2.909	8709349			
Oxazepam	287.1 -> 240...	2/14/2019 2:00 PM						287.1 -> 268...				Oxazepam-D5	4.474	324873		Oxazepam-D5	4.474	324873			
Oxycodone	316.2 -> 298...	2/14/2019 2:00 PM						316.2 -> 241...				Oxycodone-D6	2.971	2044042		Oxycodone-D6	2.971	2044042			
Oxymorphone	302.1 -> 284...	2/14/2019 2:00 PM						302.1 -> 227...				Oxymorphone-D3	2.397	438874		Oxymorphone-D3	2.397	438874			
Phentermine	150.1 -> 65.2	2/14/2019 2:00 PM						150.1 -> 133...				Phentermine-D5	3.139	7743257		Phentermine-D5	3.139	7743257			
Promethazine	285.1 -> 86.2	2/14/2019 2:00 PM						285.1 -> 71.3				Promethazine-D3	4.559	8753773		Promethazine-D3	4.559	8753773			

Compound Method		p1 negative			p1 negative			Qualifier 1 M...			Qualifier 1 Results		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	Area	Name	Area	RT	Resp.	
Quetiapine	384.2 -> 253...	2/14/2019 2:00 PM						384.2 -> 221...				Quetiapine-D8		4.725	1727348	
Sertraline	306.1 -> 158...	2/14/2019 2:00 PM						306.1 -> 275...				Sertraline-D3		4.678	2609256	
Temazepam	301.1 -> 255...	2/14/2019 2:00 PM						301.1 -> 283...				Temazepam-D5		4.627	1529644	
Tramadol	264.2 -> 58.3	2/14/2019 2:00 PM						264.2 -> 43.3				Tramadol-13C-D3		3.435	9195692	
Trazodone	372.2 -> 176...	2/14/2019 2:00 PM						372.2 -> 148...				Trazodone-D6		4.921	4697128	
Venlafaxine	278.2 -> 58.3	2/14/2019 2:00 PM						278.2 -> 260...				Venlafaxine-D6		3.816	8192692	
Zolpidem	308.2 -> 235...	2/14/2019 2:00 PM						308.2 -> 263...				Zolpidem-D6		4.463	9066394	
Mitragynine	399.2 -> 174...	2/14/2019 2:00 PM						399.2 -> 238...				Quetiapine-D8		4.725	1727348	

Compound Method		p2 cal				p2 cal				Qualifier 1 M...				Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	MI	Area	Name	Area	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	2/14/2019 1:53 PM	3.736	225412	10.0000	412.87		284.1 -> 93.2		115.90		54184	7-aminoflunitrazepam-D7	54184	3.719	1069275				
alpha-hydroxymidazolam	342.1 -> 324...	2/14/2019 1:53 PM	4.562	181626	10.0000			342.1 -> 203...		430.70		124271	alpha-hydroxymidazolam...	124271	4.553	1370765				
Amitriptyline	278.2 -> 91.2	2/14/2019 1:53 PM	4.584	748246	10.0000			278.2 -> 105...				422568	Amitriptyline-D3	422568	4.575	2306150				
Acetyl Fentanyl	323.2 -> 105...	2/14/2019 1:53 PM	4.212	133137	10.0000	440.05		323.2 -> 188...		1082.64		101478	Acetyl Fentanyl-D5	101478	4.194	7151778				
Acetyl Norfentanyl	219.1 -> 84.2	2/14/2019 1:53 PM	2.877	76683	10.0000	6742.12		219.1 -> 56.3		181.35		26218	Acetyl Norfentanyl-D5	26218	2.859	3602404				
Carbamazepine	237.1 -> 193...	2/14/2019 1:53 PM	4.193	176811	10.0000	582.72		237.1 -> 194...				14717...	Carbamazepine-13C6	14717...	4.192	8580593				
Chlordiazepoxide	300.1 -> 227...	2/14/2019 1:53 PM	4.701	99131	10.0000	187.73		300.1 -> 282...		77.80		79773	Chlordiazepoxide-D5	79773	4.693	2262402				
Sufentanil	387.2 -> 238...	2/14/2019 1:53 PM	4.894	99262	10.0000	159.02		387.2 -> 111...		1525.30		71800	Sufentanil-D5	71800	4.876	4853317				
Chlorpheniramine	275.2 -> 230...	2/14/2019 1:53 PM	4.010	220147	10.0000	231.99		275.2 -> 167...		156.37		8944	Imipramine-D3	8944	4.515	5713474				
Desipramine	267.2 -> 72.3	2/14/2019 1:53 PM	4.456	1122155	10.0000	1927.29		267.2 -> 44.3				486275	Desipramine-D3	486275	4.456	5987474				
Doxepin	280.2 -> 107...	2/14/2019 1:53 PM	4.301	697464	10.0000	6916.61		280.2 -> 77.2		34.91		335930	Doxepin-D3	335930	4.284	3825620				
Estazolam	295.1 -> 267...	2/14/2019 1:53 PM	4.489	218239	10.0000	5506.97		295.1 -> 205...		821.88		205472	Estazolam-D5	205472	4.479	964844				
Flunitrazepam	314.1 -> 268...	2/14/2019 1:53 PM	4.538	522190	10.0000	2960.48		314.1 -> 239...		513.47		213432	Flunitrazepam-D7	213432	4.520	1013555				
Flurazepam	388.2 -> 315...	2/14/2019 1:53 PM	4.476	616222	10.0000	193.37		388.2 -> 317...		329.22		135082	Zopiclone-D4	135082	4.441	351780				
Imipramine	281.2 -> 86.2	2/14/2019 1:53 PM	4.532	1792851	10.0000	248.94		281.2 -> 58.3				12102...	Imipramine-D3	12102...	4.515	5713474				
Levamisole	205.1 -> 91.2	2/14/2019 1:53 PM	3.115	644349	10.0000	3102.10		205.1 -> 178...		6673.88		794076	MDMA-D6	794076	3.107	904757				
Maprotiline	278.2 -> 91.2	2/14/2019 1:53 PM	4.473	182233	10.0000			278.2 -> 117...		1118.36		148749	Meperidine-D4	148749	3.688	3388182				
MDA	180.1 -> 163...	2/14/2019 1:53 PM	3.040	424225	10.0000	2184.85		180.1 -> 105...		2410.94		156137	MDA-D5	156137	3.023	1876518				
MDEA	208.1 -> 163...	2/14/2019 1:53 PM	3.266	1364876	10.0000	11817...		208.1 -> 105...		8768.57		652049	MDEA-D6	652049	3.258	6042654				
MDMA	194.1 -> 163...	2/14/2019 1:53 PM	3.115	1539635	10.0000	25057...		194.1 -> 105...				695782	MDMA-D6	695782	3.107	904757				
Meperidine	248.2 -> 220...	2/14/2019 1:53 PM	3.696	761688	10.0000	12500...		248.2 -> 174...		9379.23		503900	Meperidine-D4	503900	3.688	3388182				
Methylphenidate	234.2 -> 84.2	2/14/2019 1:53 PM	3.563	2363322	10.0000	6627.03		234.2 -> 56.3		6651.89		654630	Meperidine-D4	654630	3.688	3388182				
Etizolam	343.3 -> 314...	2/14/2019 1:53 PM	4.579	193780	10.0000	8146.84		343.3 -> 259...		135.45		47901	Estazolam-D5	47901	4.479	964844				
Midazolam	326.1 -> 223...	2/14/2019 1:53 PM	4.734	181565	10.0000	429.09		326.1 -> 249...		480.51		158802	Midazolam-D4	158802	4.725	2064481				
Lamotrigine	256.0 -> 211...	2/14/2019 1:53 PM	3.611	72530	10.0000	242.84		256.0 -> 108...		1363.30		56019	Pseudoephedrine-D3	56019	2.704	514150...				
Methocarbamol	242.0 -> 199...	2/14/2019 1:53 PM	3.528	66334	10.0000	25.42		242.0 -> 163...		127.12		80513	Pseudoephedrine-D3	80513	2.704	514150...				
Normeperidine	234.1 -> 42.3	2/14/2019 1:53 PM	3.623	404903	10.0000	19808...		234.1 -> 160...				571122	Normeperidine-D4	571122	3.613	2064756				
Olanzapine	313.2 -> 256...	2/14/2019 1:53 PM	4.110	1196280	10.0000	2295.35		313.2 -> 84.1				499824	Zopiclone-D4	499824	4.441	351780				
Paroxetine	330.4 -> 192...	2/14/2019 1:53 PM	4.468	40961	10.0000	35.19		330.4 -> 70.2		128.17		82428	Doxepin-D3	82428	4.284	3825620				
Nortriptyline	264.2 -> 91.2	2/14/2019 1:53 PM	4.499	343319	10.0000	295.94		264.2 -> 233...		585.83		510146	Nortriptyline-D3	510146	4.499	1286050				
Phenazepam	349.0 -> 206...	2/14/2019 1:53 PM	4.613	97828	10.0000	3600.99		349.0 -> 183...		546.59		65576	Phenazepam-D4	65576	4.604	354964				
Phencyclidine	244.2 -> 86.2	2/14/2019 1:53 PM	3.944	1227358	10.0000	362.56		244.2 -> 91.1		1124.24		10542...	Phencyclidine-D5	10542...	3.935	5780715				
Phenytol	253.1 -> 104...	2/14/2019 1:53 PM	4.106	5732	10.0000	17.84		253.1 -> 182...		22.86		8002	Phenytol-D10	8002	4.079	31629				
Pseudoephedrine	166.1 -> 148...	2/14/2019 1:53 PM	2.713	9961752	10.0000	29337...		166.1 -> 133...		23622...		20624...	Pseudoephedrine-D3	20624...	2.704	514150...				
Tapentadol	222.2 -> 107...	2/14/2019 1:53 PM	3.453	1213286	10.0000			222.2 -> 121...				482659	Tapentadol-D3	482659	3.444	5621299				
Zaleplon	306.1 -> 236...	2/14/2019 1:53 PM	4.308	336712	10.0000	284.16		306.1 -> 264...		3531.23		250172	Zaleplon-D4	250172	4.299	912775				
Zopiclone	389.1 -> 244...	2/14/2019 1:53 PM	4.450	69566	10.0000	131.45		389.1 -> 216...		131.84		47696	Zopiclone-D4	47696	4.441	351780				

Compound Method			p2 ext ctrl			p2 ext ctrl			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	Area	Name	Area	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	2/14/2019 2:21 PM						284.1 -> 93.2				7-aminoflunitrazepam-D7		3.719	1096114				
alpha-hydroxymidazolam	342.1 -> 324...	2/14/2019 2:21 PM						342.1 -> 203...				alpha-hydroxymidazolam-		4.553	1197334				
Amitriptyline	278.2 -> 91.2	2/14/2019 2:21 PM						278.2 -> 105...				Amitriptyline-D3		4.575	2174507				
Acetyl Fentanyl	323.2 -> 105...	2/14/2019 2:21 PM						323.2 -> 188...				Acetyl Fentanyl-D5		4.194	6328143				
Acetyl Norfentanyl	219.1 -> 84.2	2/14/2019 2:21 PM						219.1 -> 56.3				Acetyl Norfentanyl-D5		2.868	2927869				
Carbamazepine	237.1 -> 193...	2/14/2019 2:21 PM						237.1 -> 194...				Carbamazepine-13C6		4.192	7693162				
Chlordiazepoxide	300.1 -> 227...	2/14/2019 2:21 PM						300.1 -> 282...				Chlordiazepoxide-D5		4.693	2041839				
Sufentanil	387.2 -> 238...	2/14/2019 2:21 PM						387.2 -> 111...				Sufentanil-D5		4.876	4174025				
Chlorpheniramine	275.2 -> 230...	2/14/2019 2:21 PM						275.2 -> 167...				Imipramine-D3		4.515	5407867				
Desipramine	267.2 -> 72.3	2/14/2019 2:21 PM						267.2 -> 44.3				Desipramine-D3		4.456	5469572				
Doxepin	280.2 -> 107...	2/14/2019 2:21 PM						280.2 -> 77.2				Doxepin-D3		4.292	3500399				
Estazolam	295.1 -> 267...	2/14/2019 2:21 PM						295.1 -> 205...				Estazolam-D5		4.479	1050963				
Flunitrazepam	314.1 -> 268...	2/14/2019 2:21 PM						314.1 -> 239...				Flunitrazepam-D7		4.520	105989				
Flurazepam	388.2 -> 315...	2/14/2019 2:21 PM						388.2 -> 317...				Zopiclone-D4		4.441	265701				
Imipramine	281.2 -> 86.2	2/14/2019 2:21 PM						281.2 -> 58.3				Imipramine-D3		4.515	5407867				
Levamisole	205.1 -> 91.2	2/14/2019 2:21 PM						205.1 -> 178...				MDMA-D6		3.107	804462				
Maprotiline	278.2 -> 91.2	2/14/2019 2:21 PM						278.2 -> 117...				Meperidine-D4		3.688	2743382				
MDA	180.1 -> 163...	2/14/2019 2:21 PM						180.1 -> 105...				MDA-D5		3.031	1671638				
MDEA	208.1 -> 163...	2/14/2019 2:21 PM						208.1 -> 105...				MDEA-D6		3.258	5452541				
MDMA	194.1 -> 163...	2/14/2019 2:21 PM						194.1 -> 105...				MDMA-D6		3.107	804462				
Meperidine	248.2 -> 220...	2/14/2019 2:21 PM	3.696	6184160	100.2731	29682...		248.2 -> 174...		61393...	40908...	Meperidine-D4		3.688	2743382				
Methylphenidate	234.2 -> 84.2	2/14/2019 2:21 PM						234.2 -> 56.3				Meperidine-D4		3.688	2743382				
Etizolam	343.3 -> 314...	2/14/2019 2:21 PM						343.3 -> 259...				Estazolam-D5		4.479	1050963				
Midazolam	326.1 -> 223...	2/14/2019 2:21 PM						326.1 -> 249...				Midazolam-D4		4.725	1814864				
Lamotrigine	256.0 -> 211...	2/14/2019 2:21 PM						256.0 -> 108...				Pseudoephedrine-D3		2.704	470591...				
Methocarbamol	242.0 -> 199...	2/14/2019 2:21 PM						242.0 -> 163...				Pseudoephedrine-D3		2.704	470591...				
Normeperidine	234.1 -> 42.3	2/14/2019 2:21 PM						234.1 -> 160...				Normeperidine-D4		3.613	1822458				
Olanzapine	313.2 -> 256...	2/14/2019 2:21 PM						313.2 -> 84.1				Zopiclone-D4		4.441	265701				
Paroxetine	330.4 -> 192...	2/14/2019 2:21 PM						330.4 -> 70.2				Doxepin-D3		4.292	3500399				
Nortriptyline	264.2 -> 91.2	2/14/2019 2:21 PM						264.2 -> 233...				Nortriptyline-D3		4.499	1209805				
Phenazepam	349.0 -> 206...	2/14/2019 2:21 PM						349.0 -> 183...				Phenazepam-D4		4.604	357548				
Phencyclidine	244.2 -> 86.2	2/14/2019 2:21 PM						244.2 -> 91.1				Phencyclidine-D5		3.935	5201803				
Phenylethylamine	253.1 -> 104...	2/14/2019 2:21 PM						253.1 -> 182...				Phenylethylamine-D10		4.071	29512				
Pseudoephedrine	166.1 -> 148...	2/14/2019 2:21 PM						166.1 -> 133...				Pseudoephedrine-D3		2.704	470591...				
Tapentadol	222.2 -> 107...	2/14/2019 2:21 PM						222.2 -> 121...				Tapentadol-D3		3.453	4977873				
Zaleplon	306.1 -> 236...	2/14/2019 2:21 PM						306.1 -> 264...				Zaleplon-D4		4.299	806760				
Zopiclone	389.1 -> 244...	2/14/2019 2:21 PM						389.1 -> 216...				Zopiclone-D4		4.441	265701				

Compound Method			p2 negative			p2 negative			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	Calc. Conc.	S/N	MI	Transition	MI	S/N	Area	Name	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	2/14/2019 2:07 PM						284.1 -> 93.2				7-aminoflunitrazepam-D7	3.710	2115955				
alpha-hydroxymidazolam	342.1 -> 324...	2/14/2019 2:07 PM						342.1 -> 203...				alpha-hydroxymidazolam-	4.553	1368101				
Amitriptyline	278.2 -> 91.2	2/14/2019 2:07 PM						278.2 -> 105...				Amitriptyline-D3	4.575	2172598				
Acetyl Fentanyl	323.2 -> 105...	2/14/2019 2:07 PM						323.2 -> 188...				Acetyl Fentanyl-D5	4.194	6206393				
Acetyl Norfentanyl	219.1 -> 84.2	2/14/2019 2:07 PM						219.1 -> 56.3				Acetyl Norfentanyl-D5	2.868	2925544				
Carbamazepine	237.1 -> 193...	2/14/2019 2:07 PM						237.1 -> 194...				Carbamazepine-13C6	4.192	7779051				
Chlordiazepoxide	300.1 -> 238...	2/14/2019 2:07 PM						300.1 -> 282...				Chlordiazepoxide-D5	4.693	2256114				
Sufentanil	387.2 -> 238...	2/14/2019 2:07 PM						387.2 -> 111...				Sufentanil-D5	4.885	4248698				
Chlorpheniramine	275.2 -> 230...	2/14/2019 2:07 PM						275.2 -> 167...				Imipramine-D3	4.515	5577029				
Desipramine	267.2 -> 72.3	2/14/2019 2:07 PM						267.2 -> 44.3				Desipramine-D3	4.456	5901173				
Doxepin	280.2 -> 107...	2/14/2019 2:07 PM						280.2 -> 77.2				Doxepin-D3	4.292	3476952				
Estazolam	295.1 -> 267...	2/14/2019 2:07 PM						295.1 -> 205...				Estazolam-D5	4.479	1124333				
Flunitrazepam	314.1 -> 268...	2/14/2019 2:07 PM						314.1 -> 239...				Flunitrazepam-D7	4.520	1226666				
Flurazepam	388.2 -> 315...	2/14/2019 2:07 PM						388.2 -> 317...				Zopiclone-D4	4.441	393329				
Imipramine	281.2 -> 86.2	2/14/2019 2:07 PM						281.2 -> 58.3				Imipramine-D3	4.515	5577029				
Levamisole	205.1 -> 91.2	2/14/2019 2:07 PM						205.1 -> 178...				MDMA-D6	3.107	789928				
Maprotiline	278.2 -> 91.2	2/14/2019 2:07 PM						278.2 -> 117...				Meperidine-D4	3.688	3052874				
MDA	180.1 -> 163...	2/14/2019 2:07 PM						180.1 -> 105...				MDA-D5	3.031	1870184				
MDEA	208.1 -> 163...	2/14/2019 2:07 PM						208.1 -> 105...				MDEA-D6	3.258	5357734				
MDMA	194.1 -> 163...	2/14/2019 2:07 PM						194.1 -> 105...				MDMA-D6	3.107	789928				
Meperidine	248.2 -> 220...	2/14/2019 2:07 PM						248.2 -> 174...				Meperidine-D4	3.688	3052874				
Methylphenidate	234.2 -> 84.2	2/14/2019 2:07 PM						234.2 -> 56.3				Meperidine-D4	3.688	3052874				
Etizolam	343.3 -> 314...	2/14/2019 2:07 PM						343.3 -> 259...				Estazolam-D5	4.479	1124333				
Midazolam	326.1 -> 223...	2/14/2019 2:07 PM						326.1 -> 249...				Midazolam-D4	4.725	1954230				
Lamotrigine	256.0 -> 211...	2/14/2019 2:07 PM						256.0 -> 108...				Pseudoephedrine-D3	2.704	496972...				
Methocarbamol	242.0 -> 199...	2/14/2019 2:07 PM						242.0 -> 163...				Pseudoephedrine-D3	2.704	496972...				
Normeperidine	234.1 -> 42.3	2/14/2019 2:07 PM						234.1 -> 160...				Normeperidine-D4	3.613	1853085				
Olanzapine	313.2 -> 256...	2/14/2019 2:07 PM						313.2 -> 84.1				Zopiclone-D4	4.441	393329				
Paroxetine	330.4 -> 192...	2/14/2019 2:07 PM						330.4 -> 70.2				Doxepin-D3	4.292	3476952				
Nortriptyline	264.2 -> 91.2	2/14/2019 2:07 PM						264.2 -> 233...				Nortriptyline-D3	4.499	1293291				
Phenazepam	349.0 -> 206...	2/14/2019 2:07 PM						349.0 -> 183...				Phenazepam-D4	4.604	374595				
Phencyclidine	244.2 -> 86.2	2/14/2019 2:07 PM						244.2 -> 91.1				Phencyclidine-D5	3.935	5100084				
Phenytol	253.1 -> 104...	2/14/2019 2:07 PM						253.1 -> 182...				Phenytol-D10	4.079	29966				
Pseudoephedrine	166.1 -> 148...	2/14/2019 2:07 PM						166.1 -> 133...				Pseudoephedrine-D3	2.704	496972...				
Tapentadol	222.2 -> 107...	2/14/2019 2:07 PM						222.2 -> 121...				Tapentadol-D3	3.453	5114764				
Zaleplon	306.1 -> 236...	2/14/2019 2:07 PM						306.1 -> 264...				Zaleplon-D4	4.299	812231				
Zopiclone	389.1 -> 244...	2/14/2019 2:07 PM						389.1 -> 216...				Zopiclone-D4	4.441	393329				