
























Worklist: 2666 Am 7 central file available upon request. P

LAB CASE	ITEM	TASK ID	DESCRIPTION	
M2018-3648	1	122064	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3650	1	123797	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3779	1	122633	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3780	1	122638	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3790	1	122674	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3793	1	122680	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3794	1	122684	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3951	1	123501	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-4043	2	124437	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-4069	1	123947	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2033	1	121995	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2038	1	122035	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2115	1	122803	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2287	2	124080	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2325	1	124290	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2328	1	124397	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2330	1	124434	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2332	1	124443	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2333	1	124447	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2335	1	124491	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2337	1	124496	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2338	1	124499	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-2339	1	124579	AM 25 Blood Multi-Drug Screen by LC-QQQ	

**Worklist: 2666**

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<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
P2018-2385	1	124723	AM 25 Blood Multi-Drug Screen by LC-QQQ
P2018-2386	1	124726	AM 25 Blood Multi-Drug Screen by LC-QQQ



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

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Extraction Date: 08/29/18  
Plate lot#: 0515207

Analyst: Sarah Pickle  
Plate Expiration: 10/18/18

**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:** 361331-1

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

**LCMS-QQQ ID:** 59740

## 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: #3** 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: 082918 MDS SP  
Worklist path: 082918 P1, 082918 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. > 1/3 the response of administrative control.
- 4. Did all QCs pass for each analyte? Y / N \_\_\_\_\_
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Click here to enter text.

Case samples M2018-3556-2 and P2018-2276 from worklist 2653 were re-extracted and ran with worklist 2666. Sarah Pickle acted as the primary analyst. I witnessed and approved of all techniques and methods performed.

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# Idaho State Police Forensic Services

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

**Analyst:** Sarah Pickle  
**Extraction Date:** 08/29/18  
**Worklist Number:** 2666

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>	<i>Date Out of Service</i>	<i>Initials</i>
ToxBox Benzo/Opiate Screening Plate	0515207	10/18/18			
Negative Blood	361331-1		05/25/18		
Methanol External Control Solution	042618	04/26/19	04/26/18		
Blood External Control Solution	WS042618	04/26/19	04/26/18		
0.5M Ammonium Hydroxide	082818	02/28/19	08/28/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	181370		06/21/18		
Methanol (LCMS Grade)	177145		04/11/18		
Ammonium Formate (LCMS Grade)	A0287238		1/30/17		
Ammonium Hydroxide (ACS grade or better)	053200		8/3/07		
Ethyl Acetate(ACS grade or better)	100362		6/26/17		
10mM Ammonium Formate in LCMS Water (Mobile Phase A)	<del>082118</del> F 081318		<del>08/21/18</del> P 08/13/18		
0.1% Formic Acid in LCMS Methanol (Mobile Phase B)	<del>081318</del> P 082118		<del>08/13/18</del> P 08/21/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	082918		08/29/18		

**Methanol External Control Solution (Lot: 042618)**  
100 ul of 1mg/mL stock was added to 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		

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**Blood External Control Solution (Lot: 042618)**

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

Component	Source	Source Lot Number
Negative Blood	Hemostat	361331-2
Methanol External Control Solution		042618
Prepared:	04/26/18	
Prepared by:	Tamara Salazar	
Expires:	04/26/19	

**0.5M Ammonium Hydroxide (Lot: 082818)**

Component	Source	Source Lot Number
Ammonium Hydroxide (ACS grade or better)	Fisher	053200
DI Water	-	-
Prepared:	08/28/18	
Prepared By:	Tamara Salazar	
Expires:	02/28/19	

**10mM Ammonium Formate in LCMS Water (Mobile Phase A) (Lot: ~~082118~~)**

081318 P

Component	Source	Source Lot Number
Ammonium Formate	Arcos Organics	A0287238
LCMS Water	Fisher	181370
Prepared:	<del>08/21/18</del> 08/13/18 P	
Prepared By:	Tamara Salazar	

**0.1% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: ~~081318~~)**

082118 P

Component	Source	Source Lot Number
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	177145
Prepared:	<del>08/13/18</del> 08/21/18 P	
Prepared By:	Sarah Pickle	

**Needle Rinse (75% LCMS MeOH in LCMS Water)(Lot: 082918)**

Component	Source	Source Lot Number
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	181370
Prepared:	08/29/18	
Prepared By:	Sarah Pickle	



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Compound Method	Name	Transition	p1 cal 1a Results			Qualifier 1 M			Qualifier 1 Results			ISTD Method			ISTD Results	
			Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Transition	Area	S/N	MI	Transition
	Trazodone	372.2 -> 176...	8/29/2018 4:11 PM	6.440	2606276	34.54	372.2 -> 148...	32895...	92329.61	378.2 -> 182...	32895...	92329.61	378.2 -> 182...	378.2 -> 182...	6.359	7396264
	Venlafaxine	278.2 -> 58.3	8/29/2018 4:11 PM	5.576	3442040	44.75	278.2 -> 260...	292529	Infinity	284.2 -> 64.3	292529	Infinity	284.2 -> 64.3	284.2 -> 64.3	5.554	6790266
	Zolpidem	308.2 -> 235...	8/29/2018 4:11 PM	5.897	2963722	211981.50	308.2 -> 263...	705296	1215.52	314.2 -> 235...	705296	1215.52	314.2 -> 235...	314.2 -> 235...	5.895	190431...





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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	Area	S/N	MI	Name	Transition	RT	Resp.	RT	Resp.		
Trazodone	372.2 -> 176...	8/29/2018 4:50 PM					372.2 -> 148...				Trazodone-D6	378.2 -> 182...	6.379	6483247	6.379	6483247		
Venlafaxine	278.2 -> 58.3	8/29/2018 4:50 PM					278.2 -> 260...				Venlafaxine-D6	284.2 -> 64.3	5.575	4953612	5.575	4953612		
Zolpidem	308.2 -> 235...	8/29/2018 4:50 PM					308.2 -> 263...				Zolpidem-D6	314.2 -> 235...	5.895	149609...	5.895	149609...		



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Compound Method		p1 negative			p1 negative Results			Qualifier 1 Result			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	ML	Area	S/N	ML	Name	Transition	RT	Resp.		
Trazodone	372.2 -> 176...	8/29/2018 4:31 PM								Trazodone-D6	378.2 -> 182...	6.359	5798231		
Venlafaxine	278.2 -> 58.3	8/29/2018 4:31 PM								Venlafaxine-D6	284.2 -> 64.3	5.554	4907735		
Zolpidem	308.2 -> 235...	8/29/2018 4:31 PM								Zolpidem-D6	314.2 -> 235...	5.895	14124869		

RTS

Compound Method			p2 cal 1b			p2 cal 1b Results			Qualifier 1 Re...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	S/N	MI	Transition	Area	S/N	MI	Area	S/N	MI	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	8/29/2018 4:21 PM				284.1 -> 93.2							7-aminoflunitrazepam-D7	291.2 -> 138...	5.521	29003
alpha-hydroxymidazolam	342.1 -> 324...	8/29/2018 4:21 PM				342.1 -> 203...							alpha-hydroxymidazolam-	346.1 -> 328...	6.306	13155
Amitriptyline	278.2 -> 91.2	8/29/2018 4:21 PM				278.2 -> 105...							Amitriptyline-D3	281.2 -> 91.2	6.253	13843
Acetyl Fentanyl	323.2 -> 105...	8/29/2018 4:21 PM				323.2 -> 188...							Acetyl Fentanyl-D5	328.2 -> 105...	5.699	49692
Acetyl Norfentanyl	219.1 -> 84.2	8/29/2018 4:21 PM				219.1 -> 56.3							Acetyl Norfentanyl-D5	224.2 -> 84.2	4.572	17256
Carbamazepine	237.1 -> 193...	8/29/2018 4:21 PM				237.1 -> 194...							Carbamazepine-13C6	243.1 -> 200...	6.016	12147
Chlordiazepoxide	300.1 -> 227...	8/29/2018 4:21 PM				300.1 -> 282...							Chlordiazepoxide-D5	305.1 -> 286...	6.534	483
Sufentanil	387.2 -> 238...	8/29/2018 4:21 PM				387.2 -> 111...							Sufentanil-D5	392.2 -> 238...	5.999	41938
Desipramine	267.2 -> 72.3	8/29/2018 4:21 PM				267.2 -> 44.3							Desipramine-D3	270.2 -> 75.3	6.175	1447...
Doxepin	280.2 -> 107...	8/29/2018 4:21 PM				280.2 -> 77.2							Doxepin-D3	283.2 -> 107...	5.969	12298
Estazolam	295.1 -> 267...	8/29/2018 4:21 PM				295.1 -> 205...							Estazolam-D5	300.1 -> 272...	6.209	7676
Flunitrazepam	314.1 -> 268...	8/29/2018 4:21 PM				314.1 -> 239...							Flunitrazepam-D7	321.1 -> 245...		
Flurazepam	388.2 -> 315...	8/29/2018 4:21 PM	5.818	7981	4.29	388.2 -> 317...							Zopiclone-D4	393.1 -> 244...	5.837	9656
Imipramine	281.2 -> 86.2	8/29/2018 4:21 PM				281.2 -> 58.3							Imipramine-D3	284.2 -> 61.3	6.253	39563
Levamisole	205.1 -> 91.2	8/29/2018 4:21 PM				205.1 -> 178...							MDMA-D6	200.2 -> 166...	4.882	5842
Maprotiline	278.2 -> 91.2	8/29/2018 4:21 PM				278.2 -> 117...							Meperidine-D4	252.2 -> 224...	5.402	10586
MDA	180.1 -> 163...	8/29/2018 4:21 PM				180.1 -> 105...	540...	1.63		0.99			MDA-D5	185.1 -> 168...	4.741	18945
MDEA	208.1 -> 163...	8/29/2018 4:21 PM				208.1 -> 105...		1.39					MDEA-D6	214.2 -> 166...	5.124	1018...
MDMA	194.1 -> 163...	8/29/2018 4:21 PM				194.1 -> 105...		0.72					MDMA-D6	200.2 -> 166...	4.882	5842
Meperidine	248.2 -> 220...	8/29/2018 4:21 PM				248.2 -> 174...							Meperidine-D4	252.2 -> 224...	5.402	10586
Methylphenidate	234.2 -> 84.2	8/29/2018 4:21 PM				234.2 -> 56.3							Meperidine-D4	252.2 -> 224...	5.402	10586
Midazolam	326.1 -> 223...	8/29/2018 4:21 PM				326.1 -> 249...							Midazolam-D4	330.1 -> 295...	6.449	14593
Normeperidine	234.1 -> 42.3	8/29/2018 4:21 PM				234.1 -> 160...							Normeperidine-D4	238.2 -> 164...	5.385	24684
Nortriptyline	264.2 -> 91.2	8/29/2018 4:21 PM				264.2 -> 233...							Nortriptyline-D3	267.2 -> 233...		
Phenazepam	349.0 -> 206...	8/29/2018 4:21 PM				349.0 -> 183...							Phenazepam-D4	353.0 -> 183...	6.143	67
Phencyclidine	244.2 -> 86.2	8/29/2018 4:21 PM				244.2 -> 91.1							Phencyclidine-D5	249.2 -> 86.2	5.730	26591
Phenylethylamine	253.1 -> 104...	8/29/2018 4:21 PM				253.1 -> 182...							Phenylethylamine-D10	263.2 -> 192...		
Pseudoephedrine	166.1 -> 148...	8/29/2018 4:21 PM				166.1 -> 133...							Pseudoephedrine-D3	169.1 -> 151...		
Tapentadol	222.2 -> 107...	8/29/2018 4:21 PM				222.2 -> 121...							Tapentadol-D3	225.2 -> 107...	5.203	14686
Zaleplon	306.1 -> 236...	8/29/2018 4:21 PM				306.1 -> 264...							Zaleplon-D4	310.2 -> 240...	6.148	1141
Zopiclone	389.1 -> 244...	8/29/2018 4:21 PM				389.1 -> 216...							Zopiclone-D4	393.1 -> 244...	5.837	9656

Sample reconstituted and reinjected 8/30/18 due to low sample and internal standard responses.

Compound Method			p2 cal 1b reinject			p2 cal 1b reinject Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	M	Transition	Area	S/N	M	Transition	Area	S/N	M	Name	Transition	RT	Resp.	
7-aminoflunitrazepam	284.1 → 135...	8/30/2018 8:56 A...	5.541	270409	137141.67		284.1 → 93.2	28813	Infinity		284.1 → 93.2	28813	Infinity		7-aminoflunitrazepam-D7	291.2 → 138...	5.521	1371907	
Acetyl Fentanyl	323.2 → 105...	8/30/2018 8:56 A...	5.720	105741	20276.71		323.2 → 188...	24218	26.12		323.2 → 188...	24218	26.12		Acetyl Fentanyl-D5	328.2 → 105...	5.699	6883100	
Acetyl Norfentanyl	219.1 → 84.2	8/30/2018 8:56 A...	4.634	69882	257.05		219.1 → 56.3	25391	41.86		219.1 → 56.3	25391	41.86		Acetyl Norfentanyl-D5	224.2 → 84.2	4.632	4364857	
alpha-hydroxymidaz...	342.1 → 324...	8/30/2018 8:56 A...	6.327	545400	1093.77		342.1 → 203...	3706...	1158.63		342.1 → 203...	3706...	1158.63		alpha-hydroxymidazolam...	346.1 → 328...	6.326	3817451	
Amitriptyline	278.2 → 91.2	8/30/2018 8:56 A...	6.255	2067002	Infinity		278.2 → 105...	6552...	Infinity		278.2 → 105...	6552...	Infinity		Amitriptyline-D3	281.2 → 91.2	6.253	4577251	
Carbamazepine	337.1 → 193...	8/30/2018 8:56 A...	5.977	385867	350.52		337.1 → 194...	2430...	307.00		337.1 → 194...	2430...	307.00		Carbamazepine-13C6	243.1 → 200...	5.976	143041...	
Chlordiazepoxide	300.1 → 227...	8/30/2018 8:56 A...	6.474	152658	44174.05		300.1 → 282...	2526...	11.74		300.1 → 282...	2526...	11.74		Chlordiazepoxide-D5	305.1 → 286...	6.453	3482451	
Desipramine	267.2 → 72.3	8/30/2018 8:56 A...	6.215	2837826	149.04		267.2 → 44.3	1166...	116.69		267.2 → 44.3	1166...	116.69		Desipramine-D3	270.2 → 75.3	6.215	167856...	
Doxepin	280.2 → 107...	8/30/2018 8:56 A...	6.010	610181	82117.79		280.2 → 77.2	3374...	77.20		280.2 → 77.2	3374...	77.20		Doxepin-D3	283.2 → 107...	6.009	2074392	
Estazolam	295.1 → 267...	8/30/2018 8:56 A...	6.272	871803	184983.28		295.1 → 205...	4348...	156317...		295.1 → 205...	4348...	156317...		Estazolam-D5	300.1 → 272...	6.251	5965379	
Flunitrazepam	314.1 → 268...	8/30/2018 8:56 A...	6.329	882258	3504.61		314.1 → 239...	2510...	63755.15		314.1 → 239...	2510...	63755.15		Flunitrazepam-D7	321.1 → 245...	6.309	3534339	
Flurazepam	388.2 → 315...	8/30/2018 8:56 A...	5.960	1409967	230113.39		388.2 → 317...	2071...	34440.07		388.2 → 317...	2071...	34440.07		Zopiclone-D4	393.1 → 244...	5.857	1324865	
Imipramine	281.2 → 86.2	8/30/2018 8:56 A...	6.233	3110684	83.21		281.2 → 58.3	1591...	27.60		281.2 → 58.3	1591...	27.60		Imipramine-D3	284.2 → 61.3	6.232	110428...	
Levamisole	205.1 → 91.2	8/30/2018 8:56 A...	4.901	278114	7.26		205.1 → 178...	3162...	128.96		205.1 → 178...	3162...	128.96		MDMA-D6	200.2 → 166...	4.984	238506	
Maprotiline	278.2 → 91.2	8/30/2018 8:56 A...	5.847	1206723	Infinity		278.2 → 117...	9404	19.86		278.2 → 117...	9404	19.86		Meperidine-D4	252.2 → 224...	5.402	3600769	
MDA	180.1 → 163...	8/30/2018 8:56 A...	4.883	289042	8.35		180.1 → 105...	1309...	41.70		180.1 → 105...	1309...	41.70		MDA-D5	185.1 → 168...	4.882	1060826	
MDEA	208.1 → 163...	8/30/2018 8:56 A...	5.165	1161129	212058.34		208.1 → 105...	5519...	136418...		208.1 → 105...	5519...	136418...		MDEA-D6	214.2 → 166...	5.144	4880498	
MDMA	194.1 → 163...	8/30/2018 8:56 A...	5.025	679568	236558.58		194.1 → 105...	3380...	11.91		194.1 → 105...	3380...	11.91		MDMA-D6	200.2 → 166...	4.984	238506	
Meperidine	248.2 → 220...	8/30/2018 8:56 A...	5.423	539777	17.40		248.2 → 174...	4278...	6534.64		248.2 → 174...	4278...	6534.64		Meperidine-D4	252.2 → 224...	5.402	3600769	
Methylphenidate	234.2 → 84.2	8/30/2018 8:56 A...	5.325	2986558	Infinity		234.2 → 56.3	5963...	44.92		234.2 → 56.3	5963...	44.92		Meperidine-D4	252.2 → 224...	5.402	3600769	
Midazolam	326.1 → 223...	8/30/2018 8:56 A...	6.470	292040	2023.17		326.1 → 249...	4354...	126320....		326.1 → 249...	4354...	126320....		Midazolam-D4	330.1 → 295...	6.449	5321657	
Normeperidine	234.1 → 42.3	8/30/2018 8:56 A...	5.427	645309	52.54		234.1 → 160...	5110...	21.91		234.1 → 160...	5110...	21.91		Normeperidine-D4	238.2 → 164...	5.405	3979648	
Nortriptyline	264.2 → 91.2	8/30/2018 8:56 A...	6.155	4151312	Infinity		264.2 → 233...	3329...	Infinity		264.2 → 233...	3329...	Infinity		Nortriptyline-D3	267.2 → 233...	6.236	4928462	
Phenazepam	349.0 → 206...	8/30/2018 8:56 A...	6.386	275314	73062.51		349.0 → 183...	1975...	586.13		349.0 → 183...	1975...	586.13		Phenazepam-D4	353.0 → 183...	6.365	97931	
Phencyclidine	244.2 → 86.2	8/30/2018 8:56 A...	5.710	791593	194991.51		244.2 → 91.1	8794...	472.32		244.2 → 91.1	8794...	472.32		Phencyclidine-D5	249.2 → 86.2	5.710	5429318	
Phenylethylamine	253.1 → 104...	8/30/2018 8:56 A...	5.871	26803	5703.09		253.1 → 182...	1893	Infinity		253.1 → 182...	1893	Infinity		Phencyclidine-D5	263.2 → 192...	5.850	111087	
Pseudoephedrine	166.1 → 148...	8/30/2018 8:56 A...	4.402	132376...	Infinity		166.1 → 133...	2890...	763.96		166.1 → 133...	2890...	763.96		Pseudoephedrine-D3	169.1 → 151...	4.401	5105484	
Sufentanil	387.2 → 238...	8/30/2018 8:56 A...	6.183	153367	13865.63		387.2 → 111...	97538	174.65		387.2 → 111...	97538	174.65		Sufentanil-D5	392.2 → 238...	6.161	8288408	
Tapentadol	222.2 → 107...	8/30/2018 8:56 A...	5.244	1230847	92.21		222.2 → 121...	6780...	1065.39		222.2 → 121...	6780...	1065.39		Tapentadol-D3	225.2 → 107...	5.244	6245490	
Zaleplon	306.1 → 236...	8/30/2018 8:56 A...	6.108	811526	105.97		306.1 → 264...	8482...	2714.62		306.1 → 264...	8482...	2714.62		Zaleplon-D4	310.2 → 240...	6.087	2725057	
Zopiclone	389.1 → 244...	8/30/2018 8:56 A...	5.878	135943	305.10		389.1 → 216...	49184	11.56		389.1 → 216...	49184	11.56		Zopiclone-D4	393.1 → 244...	5.857	1324865	

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	Area	S/N	MI	Transition	Name	Transition	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	8/29/2018 5:00 PM					284.1 -> 93.2				284.1 -> 93.2	7-aminoflunitrazepam-D7	291.2 -> 138...	5.521	3243016				
alpha-hydroxymidazolam	342.1 -> 324...	8/29/2018 5:00 PM					342.1 -> 203...				342.1 -> 203...	alpha-hydroxymidazolam...	346.1 -> 328...	6.306	4058252				
Amitriptyline	278.2 -> 91.2	8/29/2018 5:00 PM					278.2 -> 105...				278.2 -> 105...	Amitriptyline-D3	281.2 -> 91.2	6.233	5104733				
Acetyl Fentanyl	323.2 -> 105...	8/29/2018 5:00 PM					323.2 -> 188...				323.2 -> 188...	Acetyl Fentanyl-D5	328.2 -> 105...	5.679	7256767				
Acetyl Norfentanyl	219.1 -> 84.2	8/29/2018 5:00 PM					219.1 -> 56.3				219.1 -> 56.3	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.612	4441484				
Carbamazepine	237.1 -> 193...	8/29/2018 5:00 PM					237.1 -> 194...				237.1 -> 194...	Carbamazepine-13C6	243.1 -> 200...	5.976	15851303				
Chlordiazepoxide	300.1 -> 227...	8/29/2018 5:00 PM					300.1 -> 282...				300.1 -> 282...	Chlordiazepoxide-D5	305.1 -> 286...	6.453	4834465				
Sufentanil	387.2 -> 238...	8/29/2018 5:00 PM					387.2 -> 111...				387.2 -> 111...	Sufentanil-D5	392.2 -> 238...	6.161	8213059				
Desipramine	267.2 -> 72.3	8/29/2018 5:00 PM					267.2 -> 44.3				267.2 -> 44.3	Desipramine-D3	270.2 -> 75.3	6.195	18222423				
Doxepin	280.2 -> 107...	8/29/2018 5:00 PM					280.2 -> 77.2				280.2 -> 77.2	Doxepin-D3	283.2 -> 107...	5.989	1898169				
Estazolam	295.1 -> 267...	8/29/2018 5:00 PM					295.1 -> 205...				295.1 -> 205...	Estazolam-D5	300.1 -> 272...	6.251	6043843				
Flunitrazepam	314.1 -> 268...	8/29/2018 5:00 PM					314.1 -> 239...				314.1 -> 239...	Flunitrazepam-D7	321.1 -> 245...	6.309	3652263				
Flurazepam	388.2 -> 315...	8/29/2018 5:00 PM					388.2 -> 317...				388.2 -> 317...	Zopiclone-D4	393.1 -> 244...	5.817	1310450				
Imipramine	281.2 -> 86.2	8/29/2018 5:00 PM					281.2 -> 58.3				281.2 -> 58.3	Imipramine-D3	284.2 -> 61.3	6.211	11943830				
Levamisole	205.1 -> 91.2	8/29/2018 5:00 PM					205.1 -> 178...				205.1 -> 178...	MDMA-D6	200.2 -> 166...	4.962	254265				
Maprotiline	278.2 -> 91.2	8/29/2018 5:00 PM					278.2 -> 117...				278.2 -> 117...	Meperidine-D4	252.2 -> 224...	5.382	3684203				
MDA	180.1 -> 163...	8/29/2018 5:00 PM					180.1 -> 105...				180.1 -> 105...	MDA-D5	185.1 -> 168...	4.842	1165088				
MDEA	208.1 -> 163...	8/29/2018 5:00 PM					208.1 -> 105...				208.1 -> 105...	MDEA-D6	214.2 -> 166...	5.124	4982492				
MDMA	194.1 -> 163...	8/29/2018 5:00 PM					194.1 -> 105...				194.1 -> 105...	MDMA-D6	200.2 -> 166...	4.962	254265				
Meperidine	248.2 -> 220...	8/29/2018 5:00 PM	5.403	6639411	495.00		248.2 -> 174...	5261...	58.66		248.2 -> 174...	Meperidine-D4	252.2 -> 224...	5.382	3684203				
Methylphenidate	234.2 -> 84.2	8/29/2018 5:00 PM					234.2 -> 56.3				234.2 -> 56.3	Meperidine-D4	252.2 -> 224...	5.382	3684203				
Midazolam	326.1 -> 223...	8/29/2018 5:00 PM					326.1 -> 249...				326.1 -> 249...	Midazolam-D4	330.1 -> 295...	6.449	5428823				
Normeperidine	234.1 -> 42.3	8/29/2018 5:00 PM	5.142	102301	9.00		234.1 -> 160...	12120	102.03		234.1 -> 160...	Normeperidine-D4	238.2 -> 164...	5.405	4157913				
Nortriptyline	264.2 -> 91.2	8/29/2018 5:00 PM					264.2 -> 233...				264.2 -> 233...	Nortriptyline-D3	267.2 -> 233...	6.236	2410240				
Phenazepam	349.0 -> 206...	8/29/2018 5:00 PM					349.0 -> 183...				349.0 -> 183...	Phenazepam-D4	353.0 -> 183...	6.365	117517				
Phencyclidine	244.2 -> 86.2	8/29/2018 5:00 PM					244.2 -> 91.1				244.2 -> 91.1	Phencyclidine-D5	249.2 -> 86.2	5.689	6032920				
Phenylethylamine	253.1 -> 104...	8/29/2018 5:00 PM					253.1 -> 182...				253.1 -> 182...	Phenylethylamine-D10	263.2 -> 192...	5.850	110246				
Pseudoephedrine	166.1 -> 148...	8/29/2018 5:00 PM					166.1 -> 133...				166.1 -> 133...	Pseudoephedrine-D3	169.1 -> 151...	4.381	5379243				
Tapentadol	222.2 -> 107...	8/29/2018 5:00 PM					222.2 -> 121...				222.2 -> 121...	Tapentadol-D3	225.2 -> 107...	5.224	6191468				
Zaleplon	306.1 -> 236...	8/29/2018 5:00 PM					306.1 -> 264...				306.1 -> 264...	Zaleplon-D4	310.2 -> 240...	6.107	2773614				
Zopiclone	389.1 -> 244...	8/29/2018 5:00 PM					389.1 -> 216...				389.1 -> 216...	Zopiclone-D4	393.1 -> 244...	5.817	1310450				

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.					
7-aminoflunitrazepam	284.1 -> 135...	8/29/2018 4:40 PM					284.1 -> 93.2				7-aminoflunitrazepam-D7	281.2 -> 138...	5.521	3229375					
alpha-hydroxymidazolam	342.1 -> 324...	8/29/2018 4:40 PM					342.1 -> 203...				alpha-hydroxymidazolam...	346.1 -> 328...	6.306	3789494					
Amiripryline	278.2 -> 91.2	8/29/2018 4:40 PM					278.2 -> 105...				Amiripryline-D3	281.2 -> 91.2	6.233	4269671					
Acetyl Fentanyl	323.2 -> 105...	8/29/2018 4:40 PM					323.2 -> 188...				Acetyl Fentanyl-D5	328.2 -> 105...	5.679	6556576					
Acetyl Norfentanyl	219.1 -> 84.2	8/29/2018 4:40 PM					219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	4.612	4375729					
Carbamazepine	237.1 -> 193...	8/29/2018 4:40 PM					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	5.976	148612...					
Chlordiazepoxide	300.1 -> 227...	8/29/2018 4:40 PM					300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...	6.453	3898464					
Sufentanil	387.2 -> 238...	8/29/2018 4:40 PM	6.142	12220	66.26		387.2 -> 111...				Sufentanil-D5	392.2 -> 238...	6.141	7813661					
Desipramine	267.2 -> 72.3	8/29/2018 4:40 PM					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.195	167712...					
Doxepin	280.2 -> 107...	8/29/2018 4:40 PM					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	5.989	2022488					
Estazolam	295.1 -> 267...	8/29/2018 4:40 PM					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.251	6041796					
Flunitrazepam	314.1 -> 268...	8/29/2018 4:40 PM	6.309	21335	43.68		314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.309	349647					
Flurazepam	388.2 -> 315...	8/29/2018 4:40 PM					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	5.817	1321681					
Imipramine	281.2 -> 86.2	8/29/2018 4:40 PM					281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.211	103761...					
Levamisole	205.1 -> 91.2	8/29/2018 4:40 PM					205.1 -> 178...				MDMA-D6	200.2 -> 166...	4.984	235955					
Maprotiline	278.2 -> 91.2	8/29/2018 4:40 PM					278.2 -> 117...				Meperidine-D4	252.2 -> 224...	5.382	3428310					
MDA	180.1 -> 163...	8/29/2018 4:40 PM					180.1 -> 105...				MDA-D5	185.1 -> 168...	4.842	1047499					
MDEA	208.1 -> 163...	8/29/2018 4:40 PM					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.124	4602809					
MDMA	194.1 -> 163...	8/29/2018 4:40 PM					194.1 -> 105...				MDMA-D6	200.2 -> 166...	4.984	235955					
Meperidine	248.2 -> 220...	8/29/2018 4:40 PM					248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.382	3428310					
Methylphenidate	234.2 -> 84.2	8/29/2018 4:40 PM					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.382	3428310					
Midazolam	326.1 -> 223...	8/29/2018 4:40 PM					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.449	5062423					
Normeperidine	234.1 -> 42.3	8/29/2018 4:40 PM					234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.405	3973301					
Nortriptyline	264.2 -> 91.2	8/29/2018 4:40 PM					264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.236	2148776					
Phenazepam	349.0 -> 206...	8/29/2018 4:40 PM					349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.365	105059					
Phencyclidine	244.2 -> 86.2	8/29/2018 4:40 PM					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.689	5668377					
Phenylethylamine	253.1 -> 104...	8/29/2018 4:40 PM					253.1 -> 182...				Phenylethylamine-D10	263.2 -> 192...	5.871	92546					
Pseudoephedrine	166.1 -> 148...	8/29/2018 4:40 PM					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.381	4384853					
Tapentadol	222.2 -> 107...	8/29/2018 4:40 PM					222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.224	6032291					
Zaleplon	306.1 -> 236...	8/29/2018 4:40 PM	6.372	8116	32.15		306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.107	2849073					
Zopiclone	389.1 -> 244...	8/29/2018 4:40 PM					389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	5.817	1321681					