

Worklist: 2452

reviewed 6/8/18

Bylee

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
C2018-1012	1	117685	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC
C2018-1057	1	117684	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC



A

AM# 28: Multi-Drug Quantitation in Blood by LC-MS/MS

Extraction Date: 6-5/18
Plate lot#: 0507680

Analyst: Anne Nord
Plate Expiration: 6-5-2018

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water

Blank Blood Lot: 17J20718

Column: Agilent 120 EC-C18 (2.1x 100-4um)

LCMS-QQQ ID: 62340

Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist:

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker 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 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
Worklist path: 06062018 Batch Name: *mdq pla*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥ 0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/- 2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS:

Only ran panel 2a and evaluated amitriptyline, mirtazapine, and mitragynine

Mirtazapine dropped 250 calibrators top of peak cut off.



Toxicology AM method 28 panel 2 external prep information

working solution 10000 ng/ml in meoh mirtazapine, amitriptyline, meperidine

Stock solution 1mg/ml 100 ul each in 9700 ul meOH

Ppd 8/7/17 Exp: 8/7/18 lot 2718 by AMN

Drug	lot	expiration
mirtazapine	fe04201503	4/1/2020
amitriptyline	fn07081401	9/1/2019
meperidine	FE1191502	2/1/2020

AM 28 control 50 ul working solution lot (2718) in 9950 ul blood lot (321632)

ppd 8/7/17 Exp 11/7/17 by AMN Concentration 50 ng/ml each

ppd 12/5/17 Exp 5/7/18 by AMN Concentration 50 ng/ml each

ppd 6/5/18 Exp 8/7/18 by AMN Concentration 50 ng/ml each

blank blood lot (17120718)

ISP FORENSICS - Cd'A Instrument # 62340

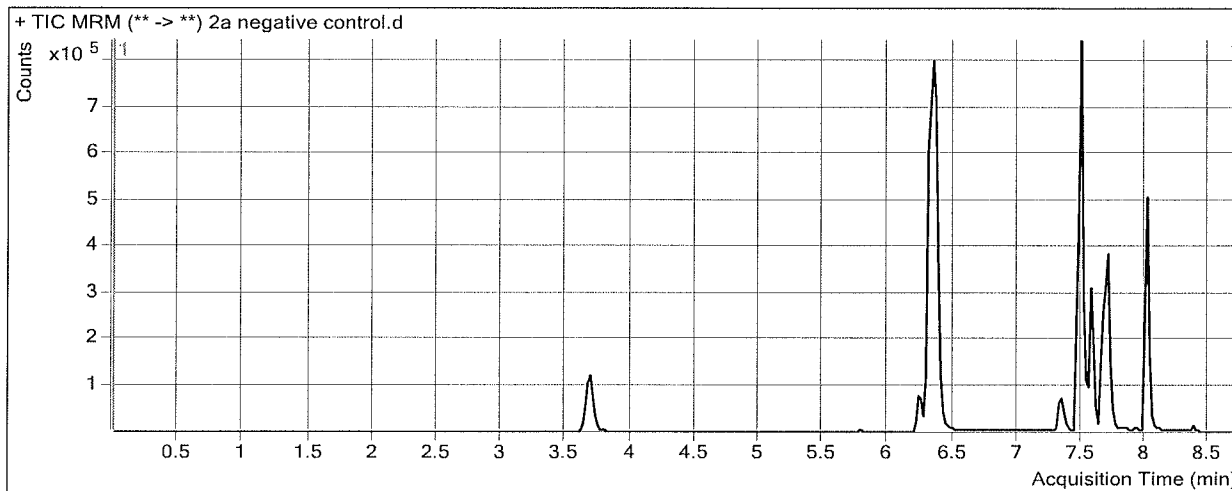
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 18:56 **Data File** 2a negative control.d
Sample Type Sample **Sample Name** 2a negative control
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-E6 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



ISP FORENSICS - Cd'A Instrument # 62340

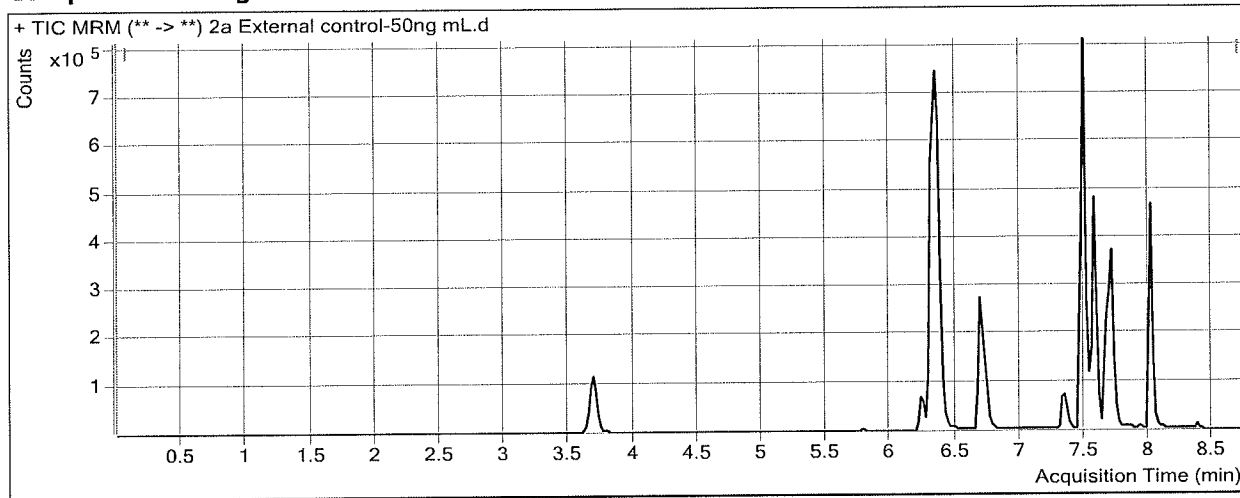
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 19:08 **Data File** 2a External control-50ng mL.d
Sample Type Sample **Sample Name** 2a External control-50ng mL
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-F6 **Sample Info**
Inj Vol -1 **Comment** AM 28 mirtazapine 50ng, amitriptyline 50 ng

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.704	475851	240674	1.9772	32.9489
Amitriptyline	Amitriptyline-D3	7.567	252133	120665	2.0895	39.8779

ISP FORENSICS - Cd'A Instrument # 62340

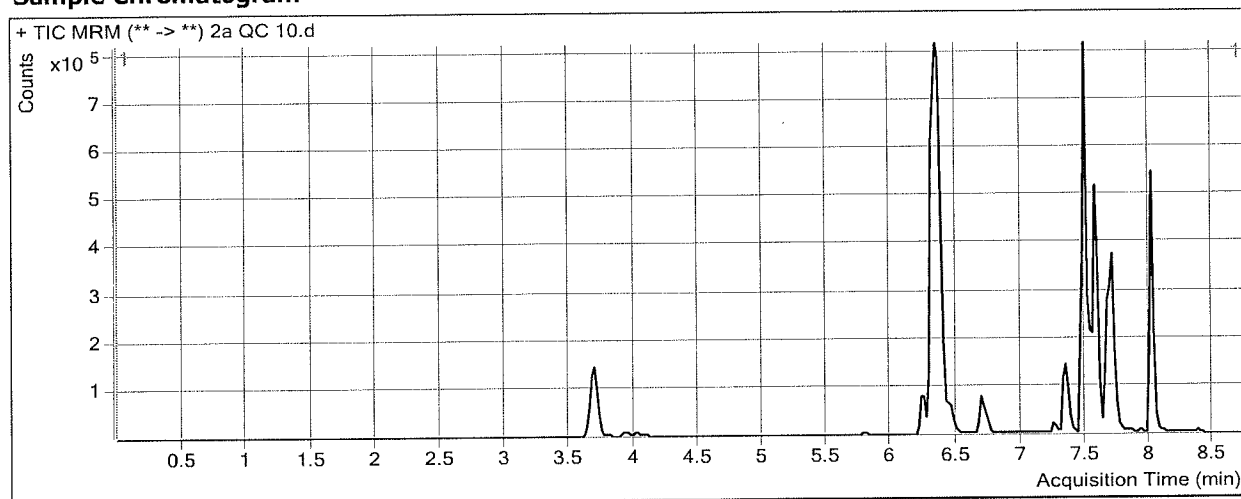
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 19:21 **Data File** 2a QC 10.d
Sample Type QC **Sample Name** 2a QC 10
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-A6 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.704	130144	388205	0.3352	7.7644
Mitragynine	Doxepin-D3	7.232	14689	388205	0.0378	8.6924
Amitriptyline	Amitriptyline-D3	7.567	116393	204290	0.5697	10.1972

ISP FORENSICS - Cd'A Instrument # 62340

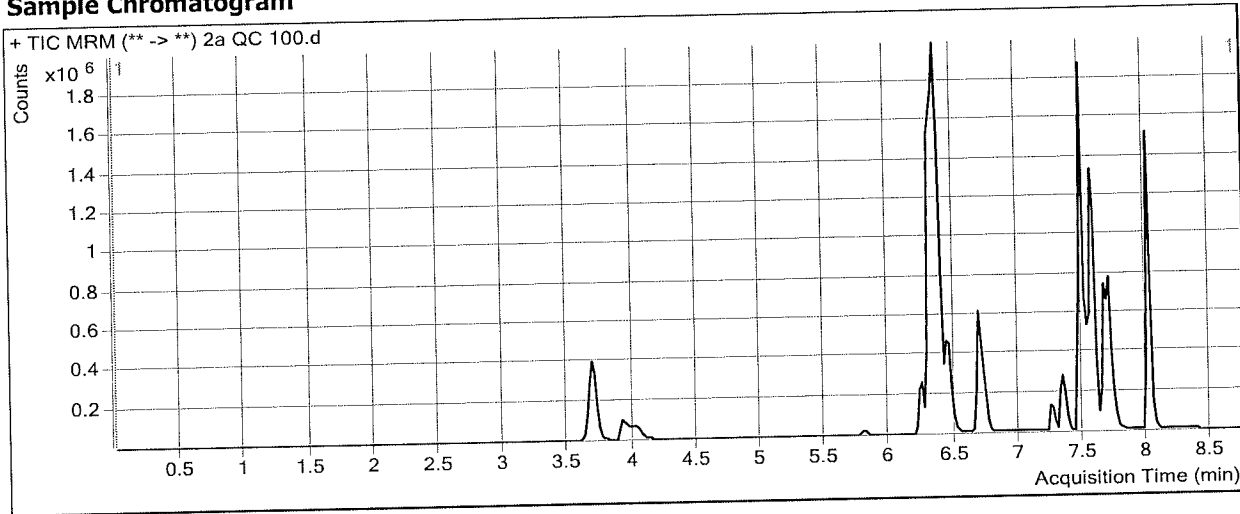
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin		
Analysis Time	6/6/2018 9:27 AM	Analyst Name	ISP Tox
Report Time	6/6/2018 9:33 AM	Reporter Name	ISP Tox
Last Calib Update	6/6/2018 9:27 AM	Batch State	Processed

Analysis Info

Acq Time	2018-06-05 20:24	Data File	2a QC 100.d
Sample Type	QC	Sample Name	2a QC 100
Dilution	1	Acq Method	MDQ Panel 2a 3-12-17-3.m
Position	P2-B6	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.704	1094601	255080	4.2912	68.4427
Mitragynine	Doxepin-D3	7.232	117113	255080	0.4591	82.0349
Amitriptyline	Amitriptyline-D3	7.567	689761	132191	5.2179	100.9735

ISP FORENSICS - Cd'A Instrument # 62340

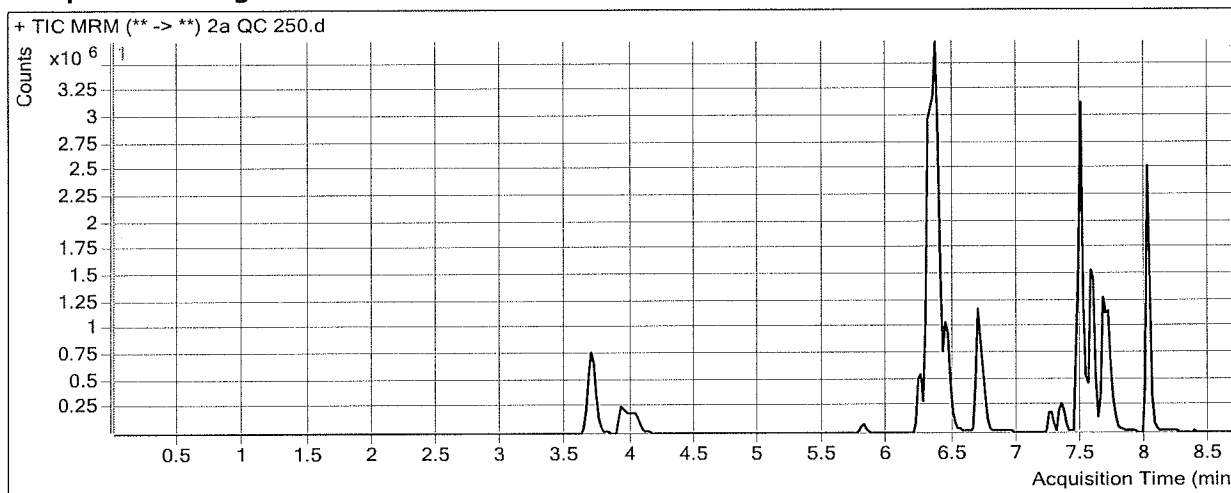
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
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Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 20:37 **Data File** 2a QC 250.d
Sample Type QC **Sample Name** 2a QC 250
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-C6 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.704	2092434	122368	17.0995	264.9021
Mitragynine	Doxepin-D3	7.252	171178	122368	1.3989	245.6382
Amitriptyline	Amitriptyline-D3	7.567	464012	37776	12.2831	238.9537

ISP FORENSICS - Cd'A Instrument # 62340

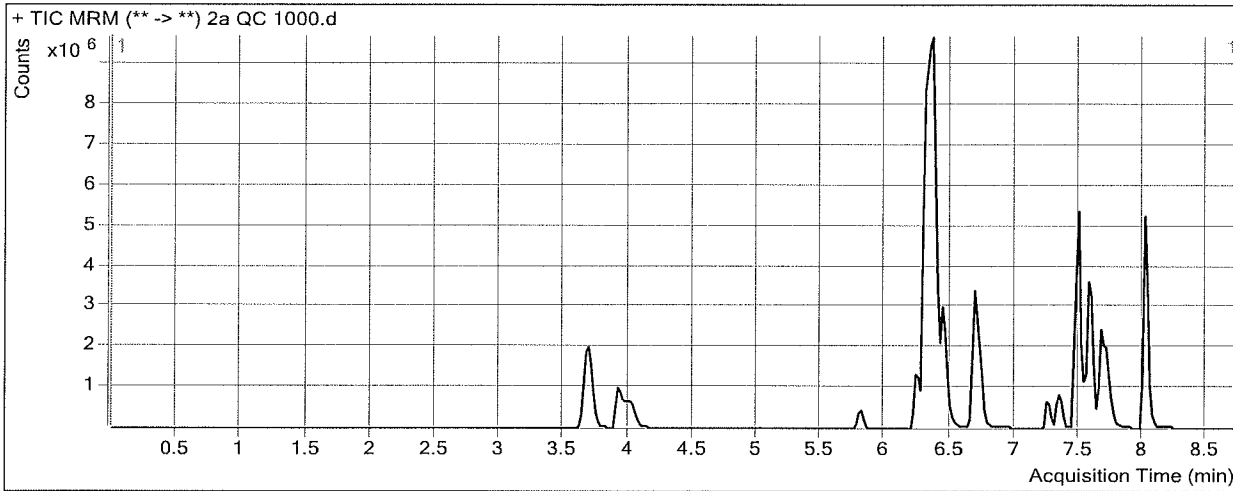
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 20:50 **Data File** 2a QC 1000.d
Sample Type QC **Sample Name** 2a QC 1000
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-D6 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.704	6851556	102840	66.6232	1024.5175
Mitragynine	Doxepin-D3	7.232	629517	102840	6.1213	1067.7708
Amitriptyline	Amitriptyline-D3	7.567	1662981	36809	45.1792	881.3985

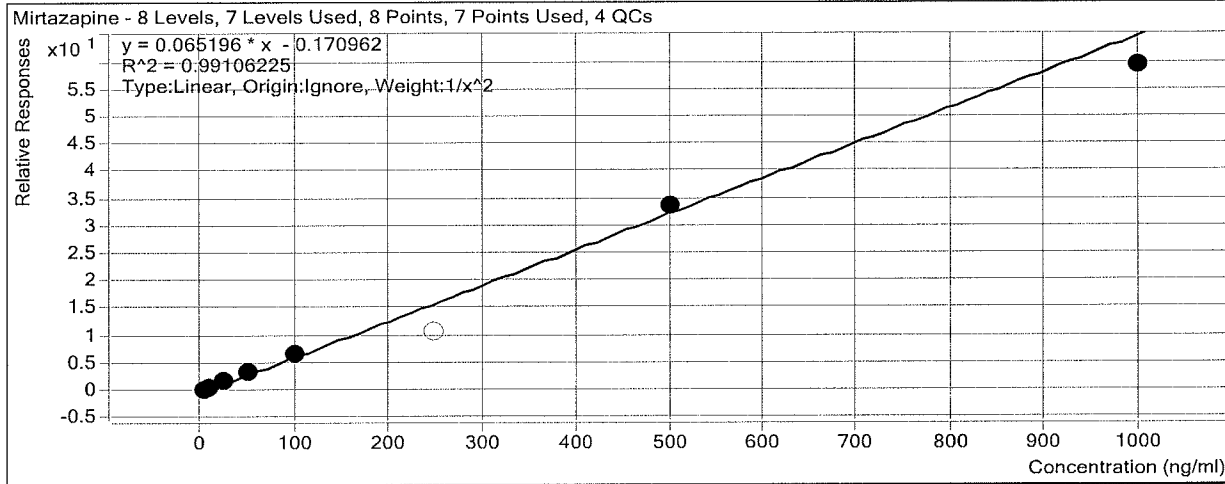
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
6/6/2018 9:27 AM

Analyst Name ISP TOX

Target Compound *Mirtazapine*
Internal Standard *Doxepin-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
2a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	105.1
2a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.6	85.9
2a QC 10	2	<input checked="" type="checkbox"/>	10	7.8	77.6
2a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.7	106.7
2a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.0	104.0
2a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.9	103.9
2a QC 100	5	<input checked="" type="checkbox"/>	100	68.4	68.4
2a cal 6-250ng	6	<input type="checkbox"/>	250	163.6	65.4
2a QC 250	6	<input type="checkbox"/>	250	264.9	106.0
2a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	516.3	103.3
2a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	911.2	91.1
2a QC 1000	8	<input checked="" type="checkbox"/>	1000	1024.5	102.5

Dropped 250 point in curve peak had a flat top. ~~✗~~

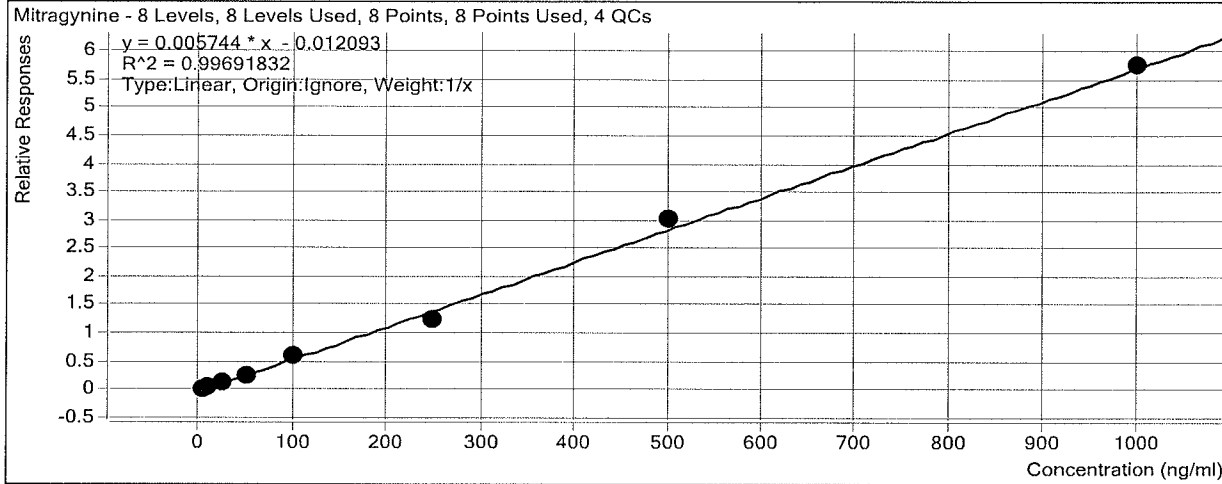
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
6/6/2018 9:27 AM

Analyst Name ISP TOX

Target Compound *Mitragynine*
Internal Standard *Doxepin-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
2a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.8	116.1
2a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	94.4
2a QC 10	2	<input checked="" type="checkbox"/>	10	8.7	86.9
2a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.2	96.9
2a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.9	95.8
2a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.4	103.4
2a QC 100	5	<input checked="" type="checkbox"/>	100	82.0	82.0
2a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	219.5	87.8
2a QC 250	6	<input checked="" type="checkbox"/>	250	245.6	98.3
2a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	526.0	105.2
2a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1003.7	100.4
2a QC 1000	8	<input checked="" type="checkbox"/>	1000	1067.8	106.8

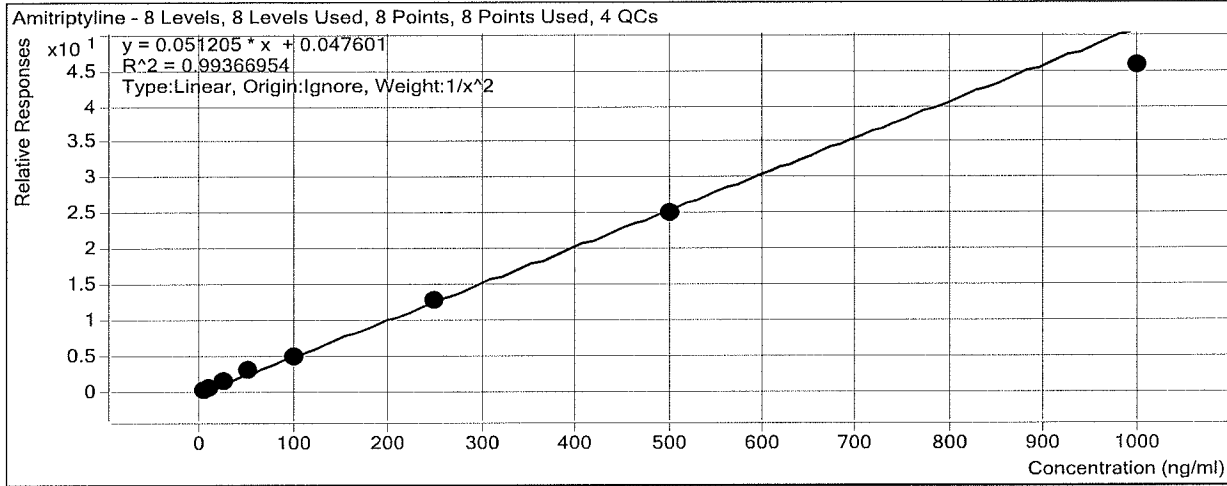
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
6/6/2018 9:27 AM

Analyst Name ISP TOX

Target Compound Amitriptyline
Internal Standard Amitriptyline-D3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
2a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	94.4
2a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.7	107.4
2a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	102.0
2a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.5	105.8
2a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	54.6	109.2
2a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	97.3	97.3
2a QC 100	5	<input checked="" type="checkbox"/>	100	101.0	101.0
2a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.6	99.0
2a QC 250	6	<input checked="" type="checkbox"/>	250	239.0	95.6
2a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	487.5	97.5
2a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	892.2	89.2
2a QC 1000	8	<input checked="" type="checkbox"/>	1000	881.4	88.1

ISP FORENSICS - Cd'A Instrument # 62340

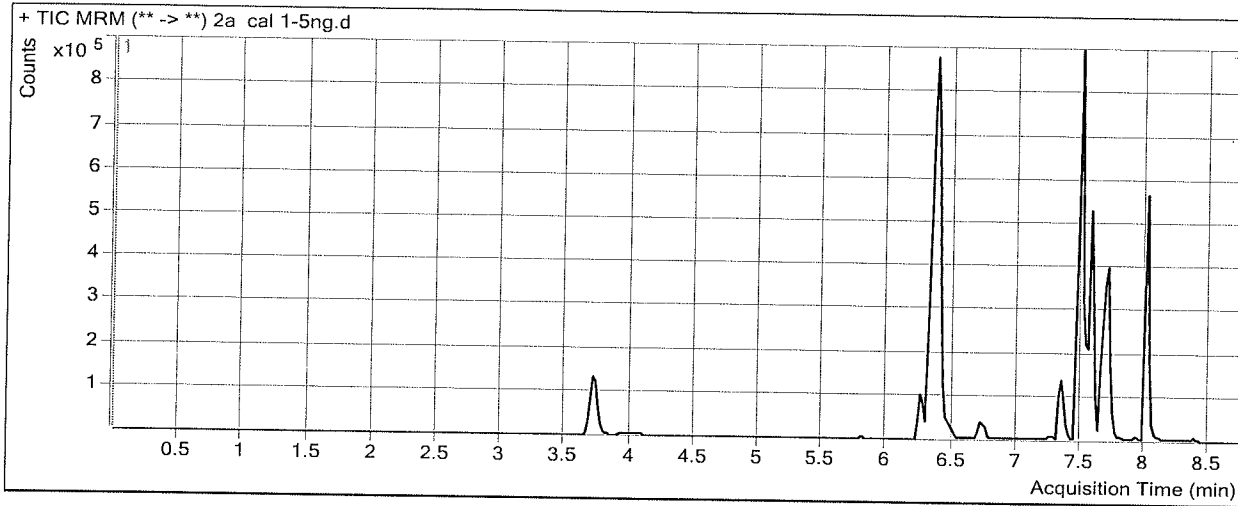
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin		
Analysis Time	6/6/2018 9:27 AM	Analyst Name	ISP Tox
Report Time	6/6/2018 9:33 AM	Reporter Name	ISP Tox
Last Calib Update	6/6/2018 9:27 AM	Batch State	Processed

Analysis Info

Acq Time	2018-06-05 17:02	Data File	2a cal 1-5ng.d
Sample Type	Calibration	Sample Name	2a cal 1-5ng
Dilution	1	Acq Method	MDQ Panel 2a 3-12-17-3.m
Position	P2-A5	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	68526	399038	0.1717	5.2563
Mitragynine	Doxepin-D3	7.252	8484	399038	0.0213	5.8065
Amitriptyline	Amitriptyline-D3	7.567	63113	218108	0.2894	4.7215

ISP FORENSICS - Cd'A Instrument # 62340

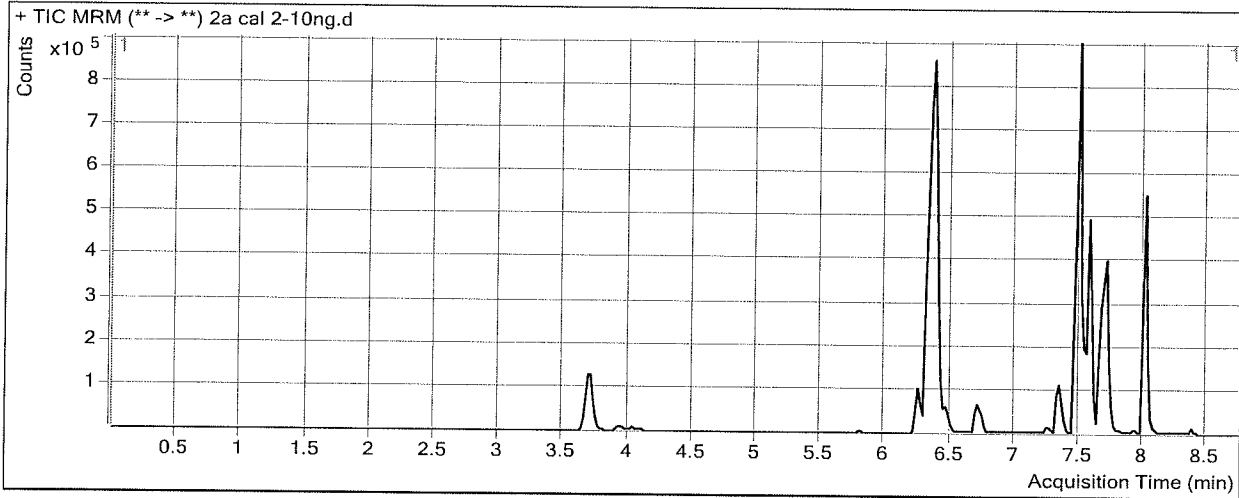
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin		
Analysis Time	6/6/2018 9:27 AM	Analyst Name	ISP Tox
Report Time	6/6/2018 9:33 AM	Reporter Name	ISP Tox
Last Calib Update	6/6/2018 9:27 AM	Batch State	Processed

Analysis Info

Acq Time	2018-06-05 17:14	Data File	2a cal 2-10ng.d
Sample Type	Calibration	Sample Name	2a cal 2-10ng
Dilution	1	Acq Method	MDQ Panel 2a 3-12-17-3.m
Position	P2-B5	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	112925	290243	0.3891	8.5900
Mitragynine	Doxepin-D3	7.232	12234	290243	0.0422	9.4435
Amitriptyline	Amitriptyline-D3	7.567	83437	139604	0.5977	10.7425

ISP FORENSICS - Cd'A Instrument # 62340

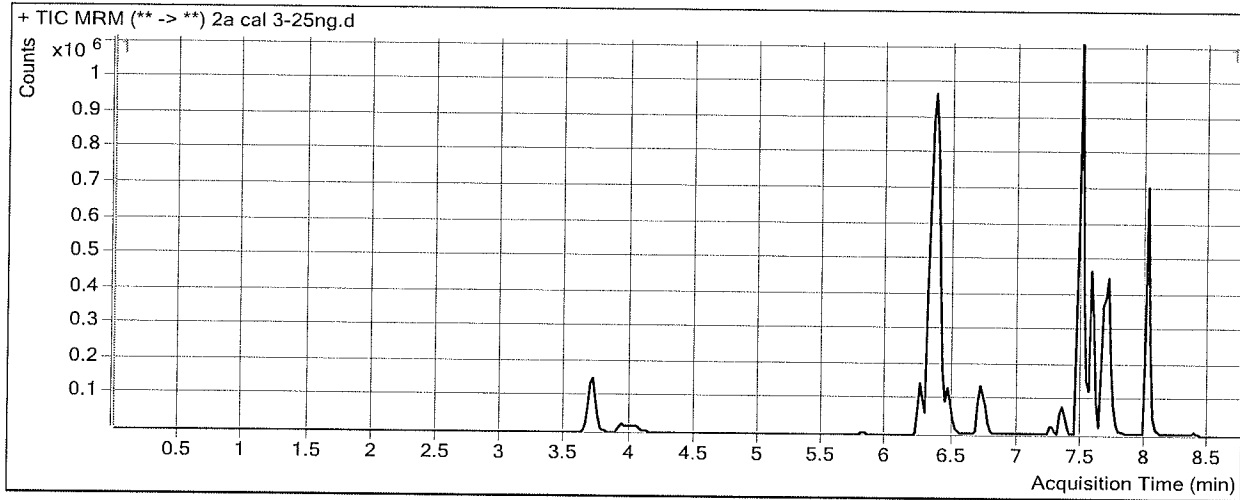
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 17:27 **Data File** 2a cal 3-25ng.d
Sample Type Calibration **Sample Name** 2a cal 3-25ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-CS **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	246715	157336	1.5681	26.6741
Mitragynine	Doxepin-D3	7.252	19985	157336	0.1270	24.2191
Amitriptyline	Amitriptyline-D3	7.567	64159	45754	1.4023	26.4557

ISP FORENSICS - Cd'A Instrument # 62340

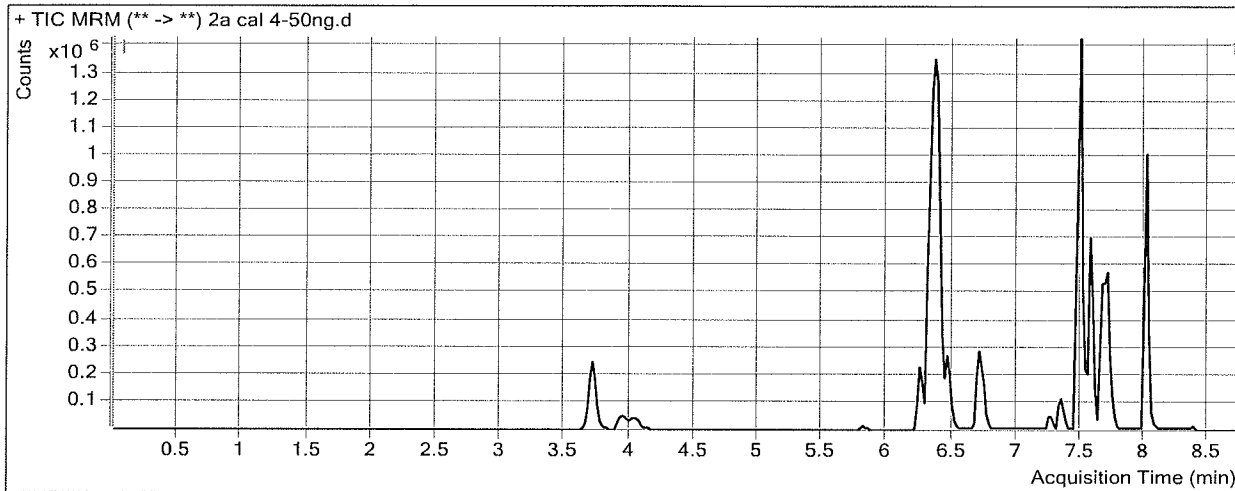
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
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Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 17:40 **Data File** 2a cal 4-50ng.d
Sample Type Calibration **Sample Name** 2a cal 4-50ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-D5 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	515595	160121	3.2200	52.0124
Mitragynine	Doxepin-D3	7.252	42104	160121	0.2629	47.8824
Amitriptyline	Amitriptyline-D3	7.567	134463	47274	2.8444	54.6193

ISP FORENSICS - Cd'A Instrument # 62340

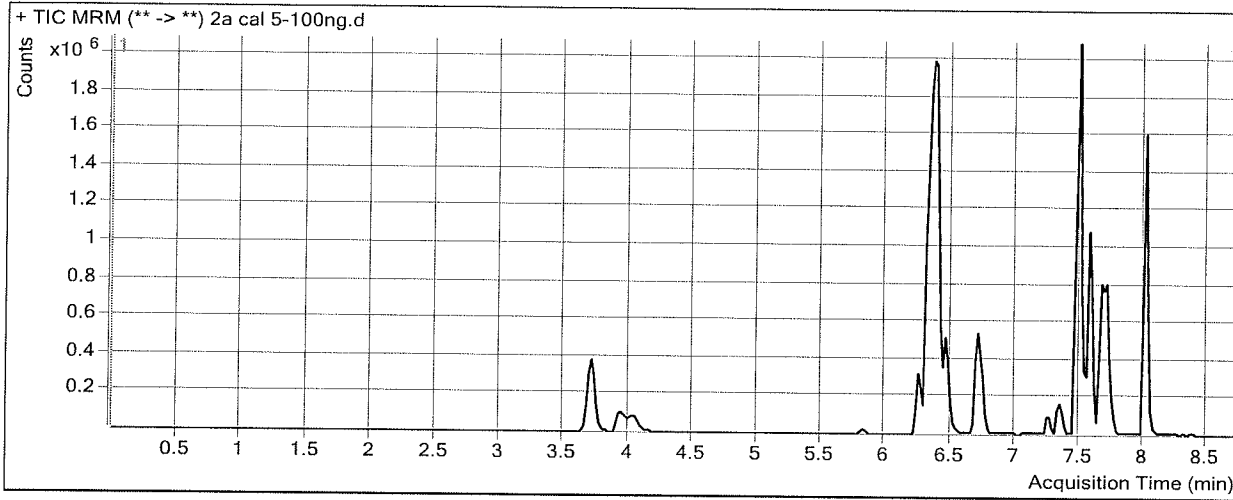
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin		
Analysis Time	6/6/2018 9:27 AM	Analyst Name	ISP Tox
Report Time	6/6/2018 9:33 AM	Reporter Name	ISP Tox
Last Calib Update	6/6/2018 9:27 AM	Batch State	Processed

Analysis Info

Acq Time	2018-06-05 17:52	Data File	2a cal 5-100ng.d
Sample Type	Calibration	Sample Name	2a cal 5-100ng
Dilution	1	Acq Method	MDQ Panel 2a 3-12-17-3.m
Position	P2-E5	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	964673	146151	6.6005	103.8637
Mitragynine	Doxepin-D3	7.252	85043	146151	0.5819	103.4067
Amitriptyline	Amitriptyline-D3	7.567	245261	48746	5.0314	97.3315

ISP FORENSICS - Cd'A Instrument # 62340

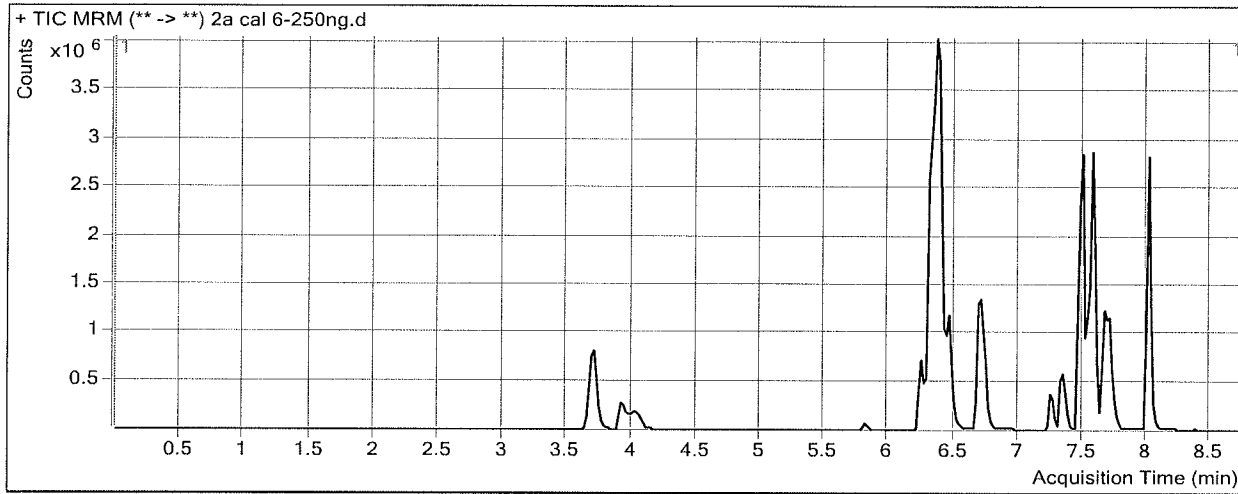
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 18:05 **Data File** 2a cal 6-250ng.d
Sample Type Calibration **Sample Name** 2a cal 6-250ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-F5 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	2763506	263347	10.4938	163.5803
Mitragynine	Doxepin-D3	7.232	328904	263347	1.2489	219.5342
Amitriptyline	Amitriptyline-D3	7.567	1811964	142388	12.7255	247.5935

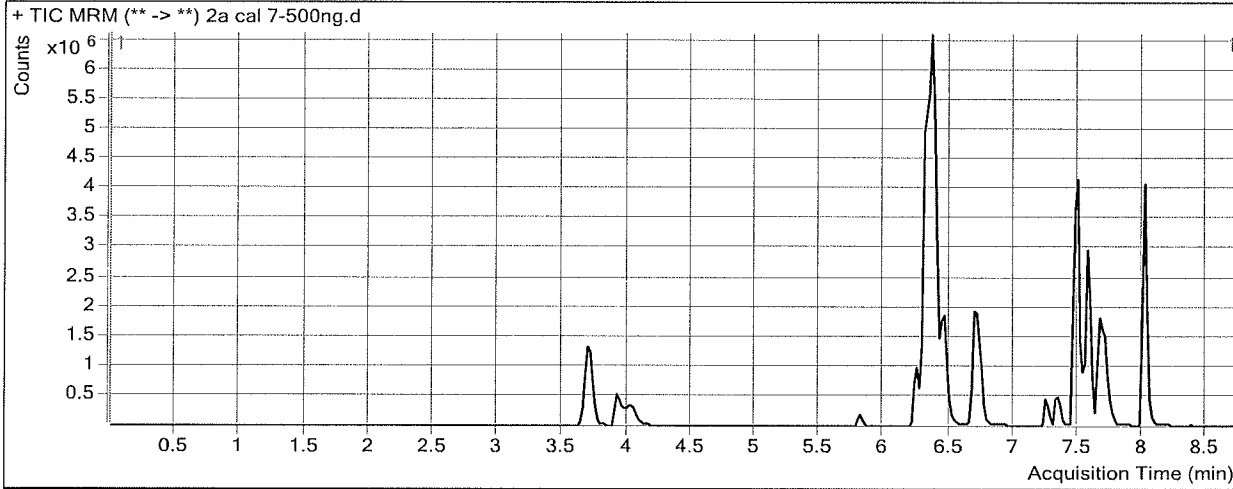
ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 18:18 **Data File** 2a cal 7-500ng.d
Sample Type Calibration **Sample Name** 2a cal 7-500ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-G5 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.724	4067661	121456	33.4908	516.3186
Mitragynine	Doxepin-D3	7.232	365518	121456	3.0095	526.0265
Amitriptyline	Amitriptyline-D3	7.567	1087629	43491	25.0080	487.4641

ISP FORENSICS - Cd'A Instrument # 62340

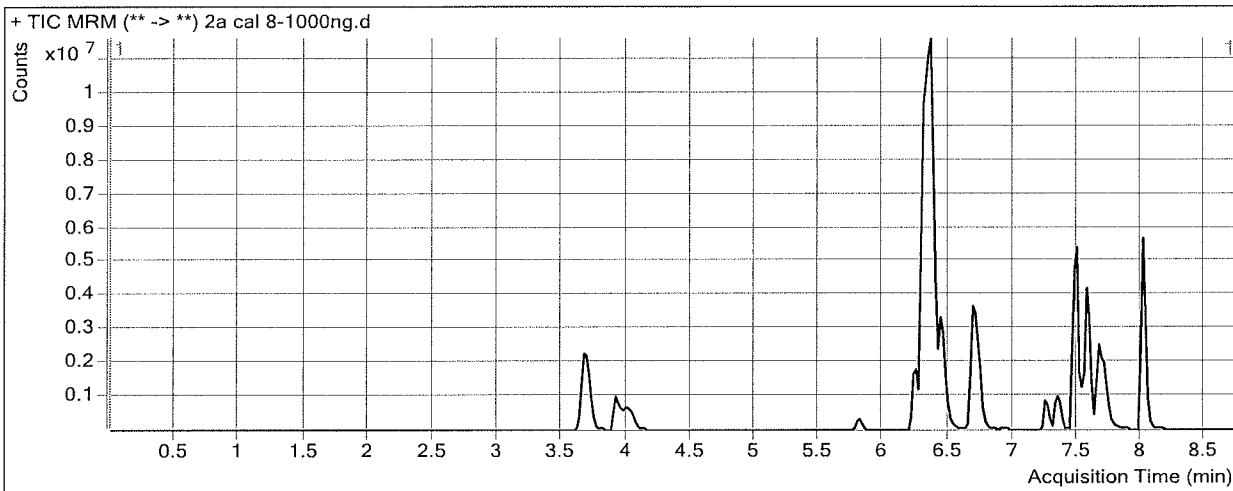
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p2a.batch.bin
Analysis Time 6/6/2018 9:27 AM **Analyst Name** ISP Tox
Report Time 6/6/2018 9:33 AM **Reporter Name** ISP Tox
Last Calib Update 6/6/2018 9:27 AM **Batch State** Processed

Analysis Info

Acq Time 2018-06-05 18:30 **Data File** 2a cal 8-1000ng.d
Sample Type Calibration **Sample Name** 2a cal 8-1000ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P2-H5 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Mirtazapine	Doxepin-D3	6.704	7954308	134277	59.2382	911.2436
Mitragynine	Doxepin-D3	7.232	772516	134277	5.7532	1003.6811
Amitriptyline	Amitriptyline-D3	7.567	1998923	43709	45.7327	892.2087