REVIEWED
By Anne Nord at 7:54 am, Oct 17, 2018

10/10/2018

Worklist: 2730

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-3955	1	128854	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC
M2018-4517	1	128855	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC
M2018-4522	1	128856	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC
M2018-4630	1	128857	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC
M2018-4670	1	128858	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC

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

Extraction Date: 10/10/18 Analyst: Sarah Pickle
Plate lot#: 0530563 Plate Expiration: 05/21/19

Mobile phase A: 5mM Amm Form + 0.01% FA **Mobile phase B:** 0.01% Formic Acid in MeOH
0.5M Ammonium Hydroxide Ethyl Acetate 20% Methanol in Water
Blank Blood Lot: 361331-1 **Column**: Agilent 120 EC-C18 (2.1x 100-4um)
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: _____

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 00.5M 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 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
Worklist path: *101018 MDQ P1 P2 SP* Batch Name: *P2a final*
☒ 2. Make necessary changes to integration limits
☒ 3. Integration linear and R^2 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 chlordiazepoxide, doxepin, levamisole, midazolam, pseudoephedrine, and zopiclone were evaluated in this run.*

Idaho State Police Forensic Services

AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ

Analyst: Sarah Pickle
Extraction Date: 10/10/18
Worklist Number: 2730

Reagent	*Lot Number*	*Expiration Date*	*Date in Service*	*Date Out of Service*	*Initials*
ToxBox Benzo/Opiate Quant Plate	0530563	5/21/19			
Negative Blood	361331-1		05/25/18		
Methanol External Control Solution	022018	02/20/19	02/20/18		
Blood External Control Solution	081518	02/20/19	08/15/18		
0.5M Ammonium Hydroxide	082818	02/28/19	08/28/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	182702		06/21/18		
Methanol (LCMS Grade)	177145		04/11/18		
Ammonium Formate (LCMS Grade)	A0287238		01/30/17		
Ammonium Hydroxide (ACS grade or better)	053200		08/03/07		
Ethyl Acetate (ACS grade or better)	100362		06/26/17		
20% LCMS Methanol in LCMS Water	082818		08/28/18		
5mM Ammonium Formate + 0.01% Formic Acid in Water (Mobile Phase A)	100918		10/09/18		
0.01% Formic Acid in Methanol (Mobile Phase B)	100918		10/09/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	100918		10/09/18		

Methanol External Control Solution (Lot: 022018)
100 ul each 1 mg/mL stock solution in 9700 ul MeOH

Component	*Source*	*Source Lot Number*	*Expiration Date*
Methanol (LCMS)	Fisher	172516	
Zopiclone	Cerilliant	FE08291601	12/31/2021
Chlordiazepoxide	Cerilliant	FE07241502	08/31/2020
Flunitrazepam	Cerilliant	FE08051602	08/31/2021
Prepared:	02/20/18		
Prepared By:	Tamara Salazar		
Expires:	02/20/19		

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Blood External Control Solution (Lot: WS081518)

50 ul of methanol external control solution was added to 9950 ul of blood.

Component	*Source*	*Source Lot Number*
Negative Blood	Hemostat	361331-1
Methanol External Control Solution		022018
Prepared:	08/15/18	
Prepared by:	Sarah Pickle	
Expires:	02/20/19	

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*	

20% LCMS Methanol in LCMS Water (Lot: *082818)*

Component	*Source*	*Source Lot Number*
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	182702
Prepared:	08/28/18	
Prepared By:	Tamara Salazar	

5mM Ammonium Formate + 0.01% Formic Acid in Water (Lot: 100918)

Component	*Source*	*Source Lot Number*
Ammonium Formate	Arcos Organics	A0287238
LCMS Water	Fisher	182702
Formic Acid	Fisher	095180B
Prepared:	10/09/18	
Prepared By:	Tamara Salazar	

0.01% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 100918)

Component	*Source*	*Source Lot Number*
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	177145
Prepared:	10/09/18	
Prepared By:	Tamara Salazar	

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 100918)

Component	*Source*	*Source Lot Number*
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	182702
Prepared:	10/09/18	
Prepared By:	Sarah Pickle	

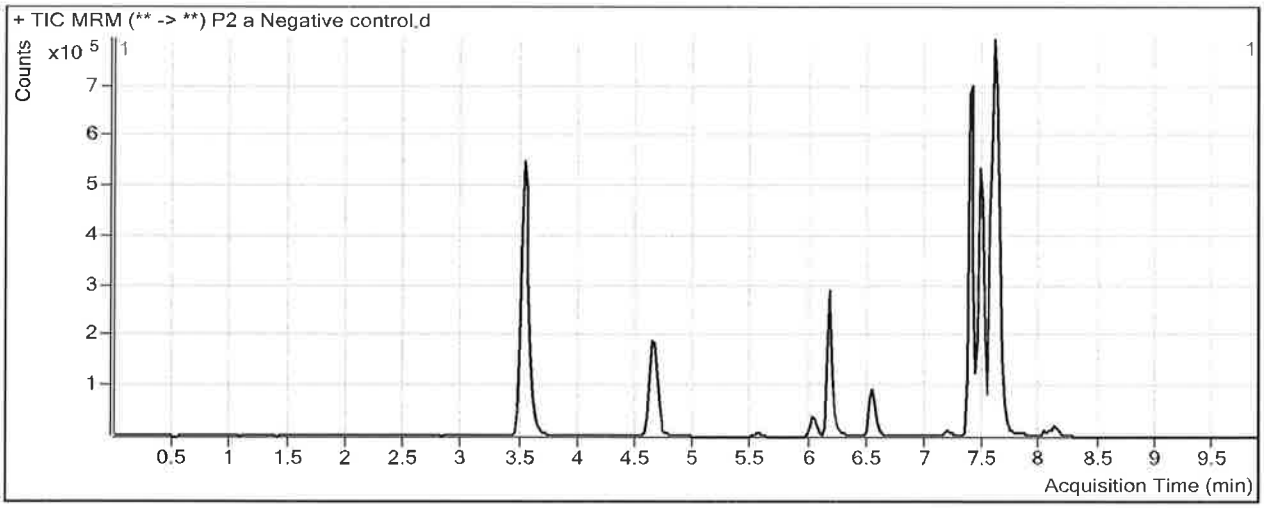
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 14:59	**Data File**	P2 a Negative control.d
Sample Type	Sample	**Sample Name**	P2 a Negative control.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-E6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



P

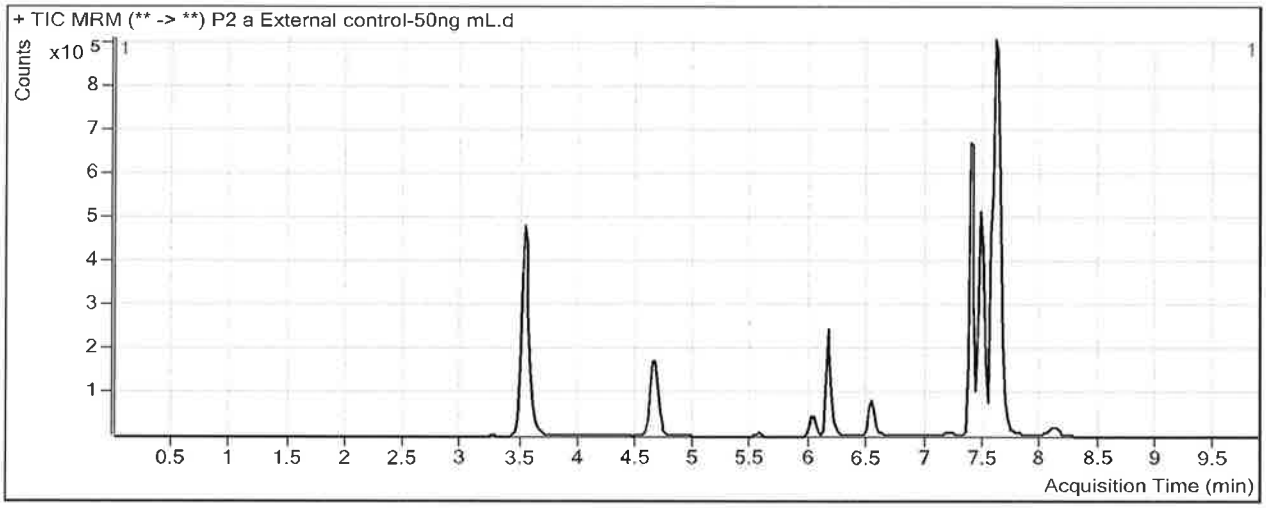
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 15:25	**Data File**	P2 a External control-50ng mL.d
Sample Type	Sample	**Sample Name**	P2 a External control-50ng mL.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-F6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; 361331-1 + WS022018 50 ng flunitrazepam, zopiclone, chlorodia:

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Zopiclone	Zopiclone-D4	6.031	63340	102167	0.6200	20.7293
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	283322	1690173	0.1676	41.3562

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

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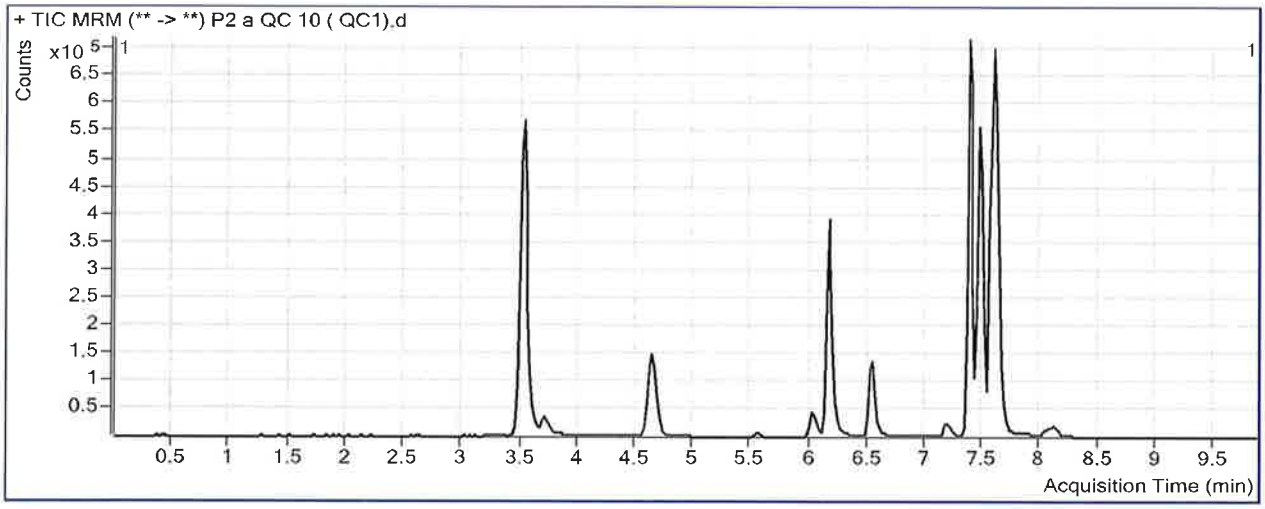
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 16:16	**Data File**	P2 a QC 10 (QC1).d
Sample Type	QC	**Sample Name**	P2 a QC 10 (QC1).d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.536	513228	2293809	0.2237	10.1802
Levamisole	Pseudoephedrine-D3	3.704	87966	2293809	0.0383	8.9826
Zopiclone	Zopiclone-D4	6.011	30752	114976	0.2675	9.8259
Doxepin	Doxepin-D3	7.188	16966	65173	0.2603	9.8236
Midazolam	Midazolam-D4	7.565	24309	521804	0.0466	8.8688
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	46234	1319637	0.0350	9.1804

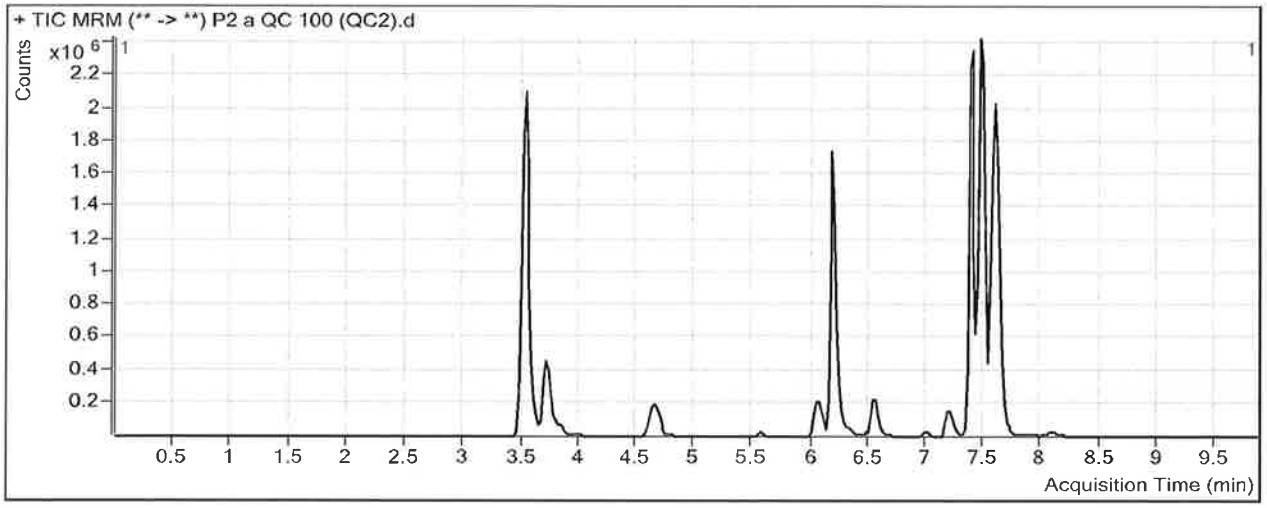
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:08 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 17:19	**Data File**	P2 a QC 100 (QC2).d
Sample Type	QC	**Sample Name**	P2 a QC 100 (QC2).d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.536	6628775	2637635	2.5132	96.2001
Levamisole	Pseudoephedrine-D3	3.704	1280866	2637635	0.4856	96.8515
Zopiclone	Zopiclone-D4	6.031	423830	135421	3.1297	98.3594
Doxepin	Doxepin-D3	7.208	429016	127841	3.3559	95.3368
Midazolam	Midazolam-D4	7.565	428416	702844	0.6095	103.6989
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	587635	1394485	0.4214	102.9372

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

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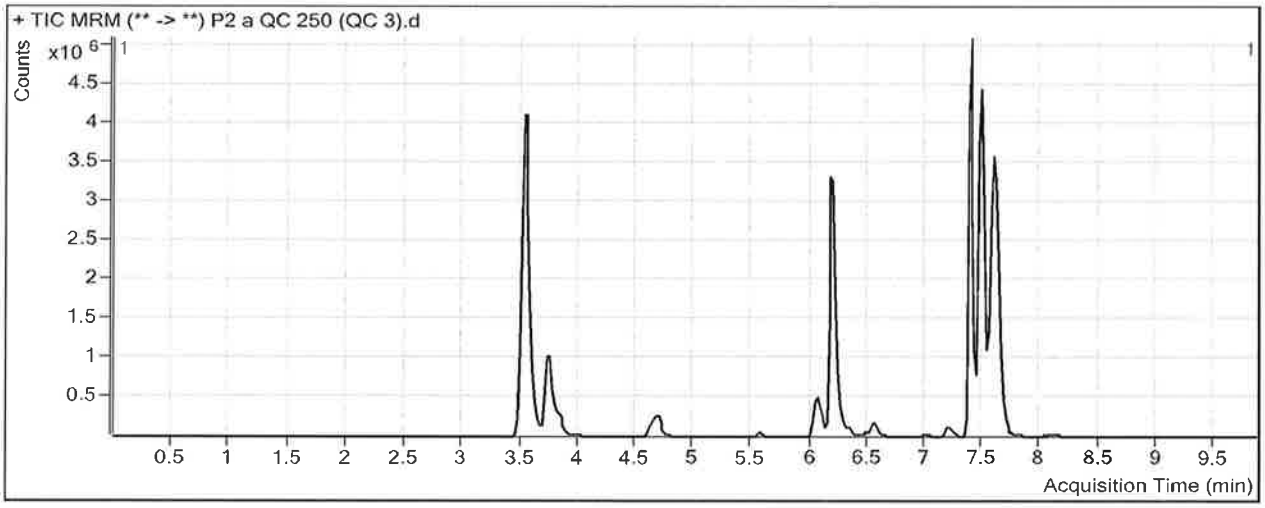
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:08 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 19:01	**Data File**	P2 a QC 250 (QC 3).d
Sample Type	QC	**Sample Name**	P2 a QC 250 (QC 3).d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.556	16944449	2599864	6.5174	246.6532
Levamisole	Pseudoephedrine-D3	3.724	3295816	2599864	1.2677	250.4979
Zopiclone	Zopiclone-D4	6.031	996738	119919	8.3118	258.6470
Doxepin	Doxepin-D3	7.208	343730	39079	8.7959	245.6150
Midazolam	Midazolam-D4	7.565	946443	637710	1.4841	251.0211
Chlordiazepoxide	Chlordiazepoxide-D5	7.627	1309993	1275900	1.0267	249.8271

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

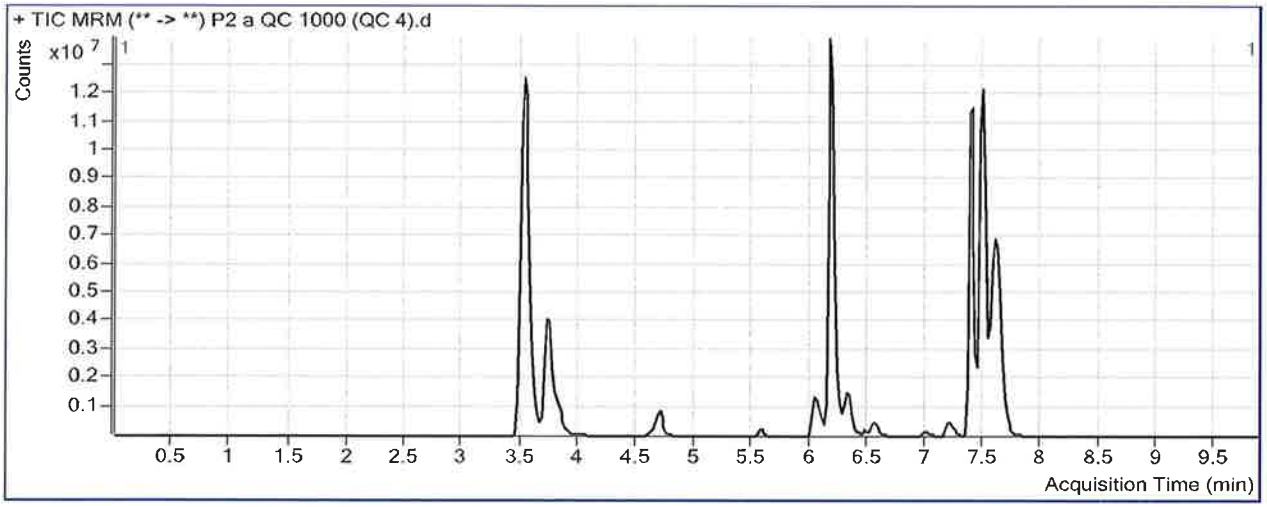
P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:08 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 19:52	**Data File**	P2 a QC 1000 (QC 4).d
Sample Type	QC	**Sample Name**	P2 a QC 1000 (QC 4).d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.536	63084867	2284133	27.6187	1039.4926
Levamisole	Pseudoephedrine-D3	3.724	13237409	2284133	5.7954	1140.0058
Zopiclone	Zopiclone-D4	6.031	2538942	80872	31.3948	972.6317
Doxepin	Doxepin-D3	7.208	1579281	39247	40.2391	1114.2246
Midazolam	Midazolam-D4	7.565	3137129	487382	6.4367	1085.2739
Chlordiazepoxide	Chlordiazepoxide-D5	7.627	3026744	743480	4.0710	988.5767

ISP Forensics
Calibration Curve Report

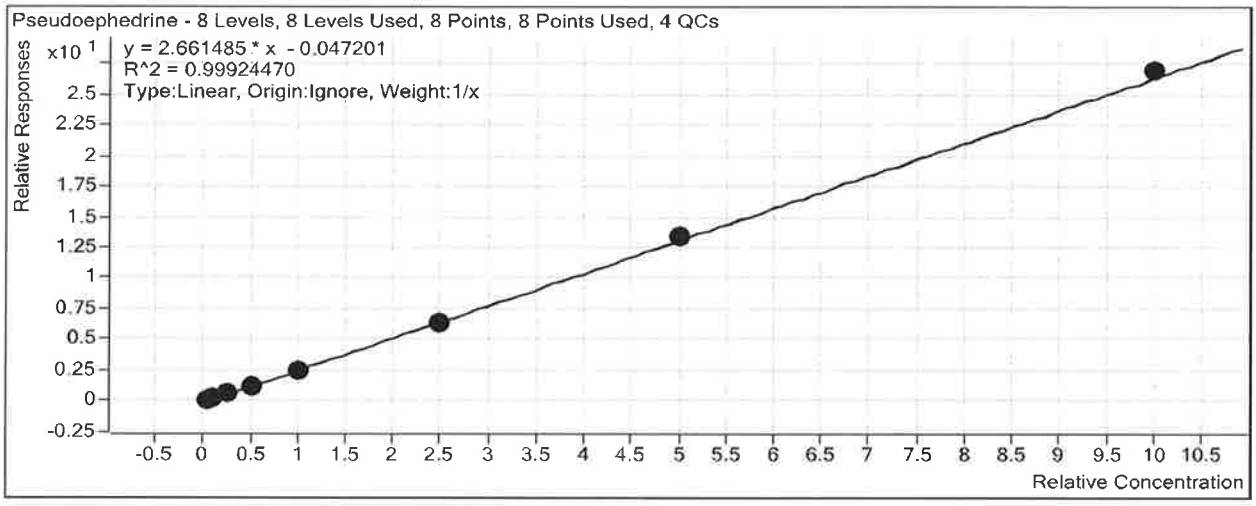
PS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin

Last Calib Update 10/12/2018 10:51 AM **Analyst Name** ISP TOX

Target Compound *Pseudoephedrine*

Internal Standard *Pseudoephedrine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	☑	5	5.9	117.3
P2 a cal 2-10ng.d	2	☑	10	10.2	101.8
P2 a QC 10 (QC1).d	2	☑	10	10.2	101.8
P2 a cal 3-25ng.d	3	☑	25	23.7	94.8
P2 a cal 4-50ng.d	4	☑	50	46.9	93.7
P2 a cal 5-100ng.d	5	☑	100	93.2	93.2
P2 a QC 100 (QC2).d	5	☑	100	96.2	96.2
P2 a cal 6-250ng.d	6	☑	250	242.5	97.0
P2 a QC 250 (QC 3).d	6	☑	250	246.7	98.7
P2 a cal 7-500ng.d	7	☑	500	503.3	100.7
P2 a cal 8-1000ng.d	8	☑	1000	1014.4	101.4
P2 a QC 1000 (QC 4).d	8	☑	1000	1039.5	103.9

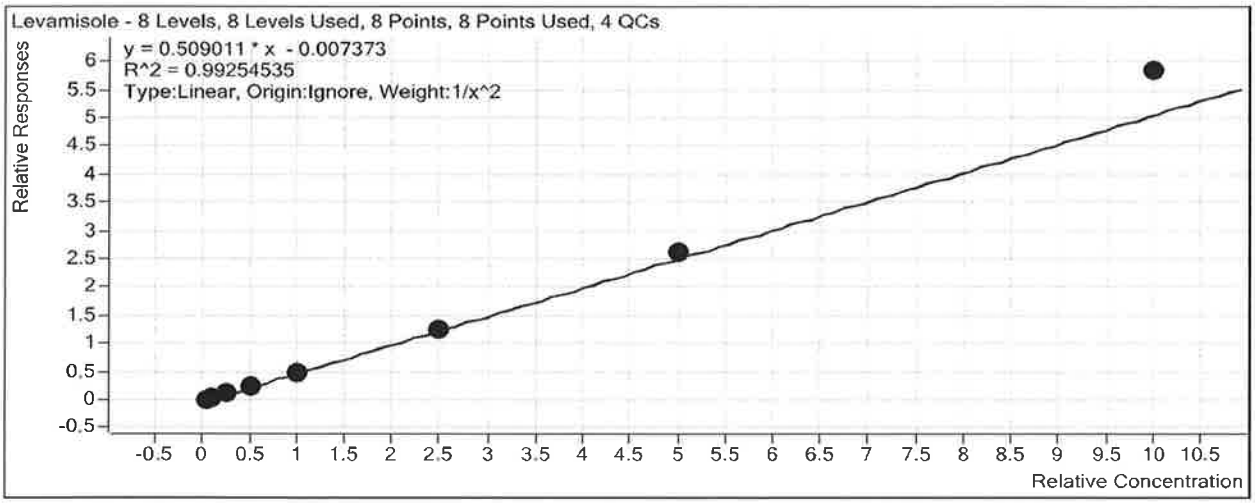
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin

Last Calib Update 10/12/2018 10:51 AM **Analyst Name** ISP TOX

Target Compound *Levamisole*

Internal Standard *Pseudoephedrine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	☑	5	5.3	105.0
P2 a cal 2-10ng.d	2	☑	10	9.4	94.5
P2 a QC 10 (QC1).d	2	☑	10	9.0	89.8
P2 a cal 3-25ng.d	3	☑	25	22.9	91.7
P2 a cal 4-50ng.d	4	☑	50	47.2	94.4
P2 a cal 5-100ng.d	5	☑	100	96.9	96.9
P2 a QC 100 (QC2).d	5	☑	100	96.9	96.9
P2 a cal 6-250ng.d	6	☑	250	247.6	99.0
P2 a QC 250 (QC 3).d	6	☑	250	250.5	100.2
P2 a cal 7-500ng.d	7	☑	500	518.7	103.7
P2 a cal 8-1000ng.d	8	☑	1000	1146.9	114.7
P2 a QC 1000 (QC 4).d	8	☑	1000	1140.0	114.0

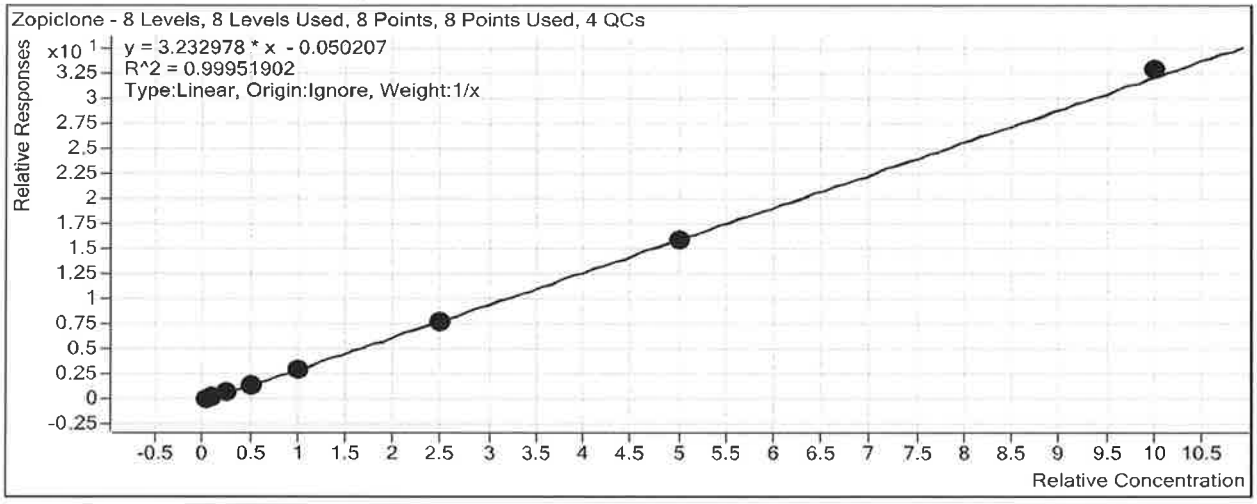
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin

Last Calib Update 10/12/2018 10:51 AM **Analyst Name** ISP TOX

Target Compound *Zopiclone*

Internal Standard *Zopiclone-D4*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
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P2 a cal 2-10ng.d	2	☑	10	9.9	98.7
P2 a QC 10 (QC1).d	2	☑	10	9.8	98.3
P2 a cal 3-25ng.d	3	☑	25	24.6	98.6
P2 a cal 4-50ng.d	4	☑	50	47.9	95.9
P2 a cal 5-100ng.d	5	☑	100	96.6	96.6
P2 a QC 100 (QC2).d	5	☑	100	98.4	98.4
P2 a cal 6-250ng.d	6	☑	250	241.9	96.8
P2 a QC 250 (QC 3).d	6	☑	250	258.6	103.5
P2 a cal 7-500ng.d	7	☑	500	496.5	99.3
P2 a cal 8-1000ng.d	8	☑	1000	1016.8	101.7
P2 a QC 1000 (QC 4).d	8	☑	1000	972.6	97.3

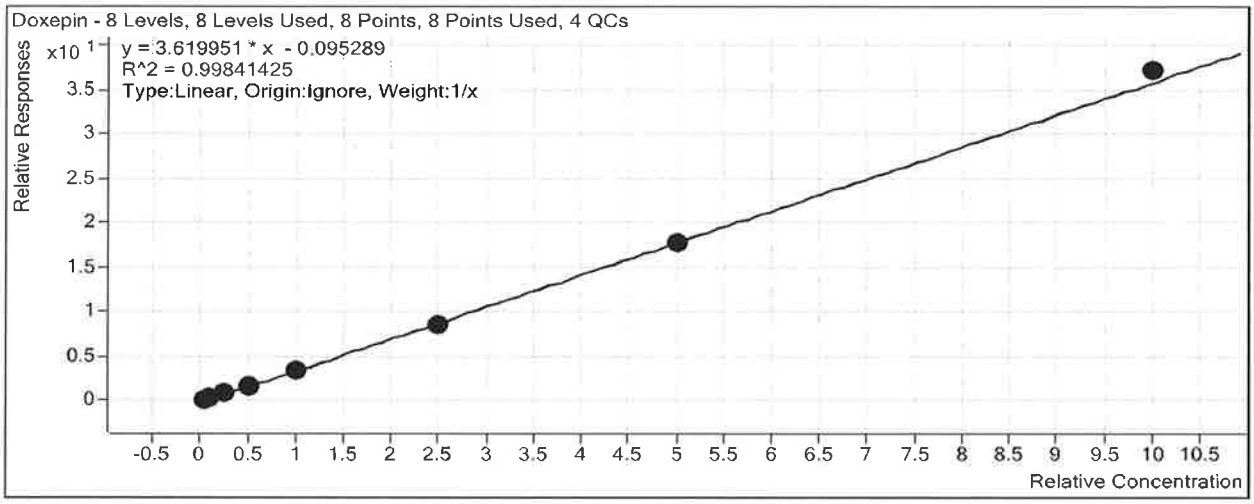
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin

Last Calib Update 10/12/2018 10:51 AM **Analyst Name** ISP TOX

Target Compound *Doxepin*

Internal Standard *Doxepin-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
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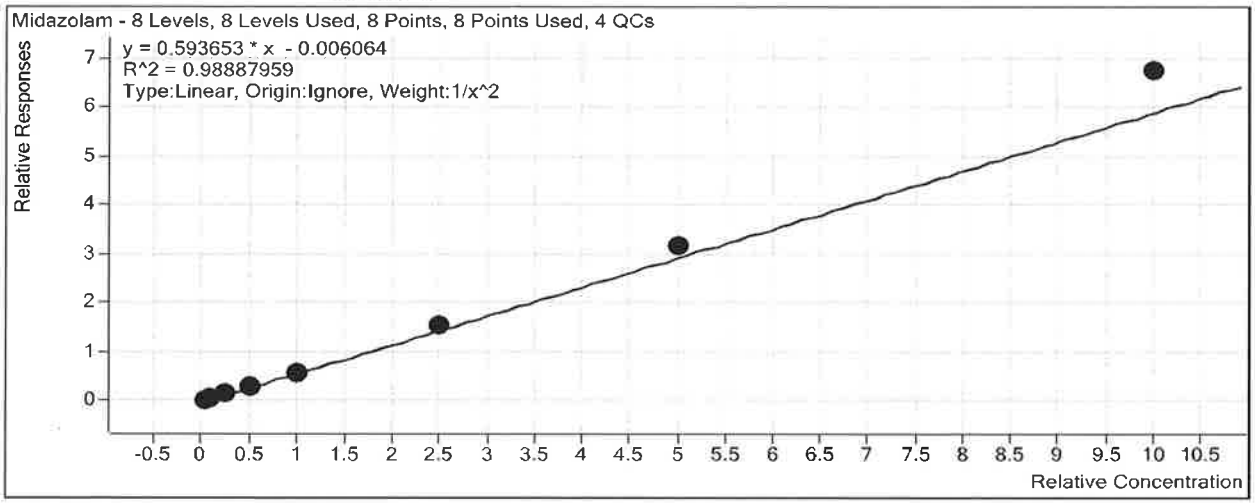
P2 a cal 2-10ng.d	2	☑	10	10.4	104.0
P2 a QC 10 (QC1).d	2	☑	10	9.8	98.2
P2 a cal 3-25ng.d	3	☑	25	21.7	86.7
P2 a cal 4-50ng.d	4	☑	50	45.9	91.8
P2 a cal 5-100ng.d	5	☑	100	97.6	97.6
P2 a QC 100 (QC2).d	5	☑	100	95.3	95.3
P2 a cal 6-250ng.d	6	☑	250	237.7	95.1
P2 a QC 250 (QC 3).d	6	☑	250	245.6	98.2
P2 a cal 7-500ng.d	7	☑	500	490.5	98.1
P2 a cal 8-1000ng.d	8	☑	1000	1030.0	103.0
P2 a QC 1000 (QC 4).d	8	☑	1000	1114.2	111.4

ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin

Last Calib Update 10/12/2018 10:51 AM **Analyst Name** ISP TOX

Target Compound *Midazolam*
Internal Standard *Midazolam-D4*



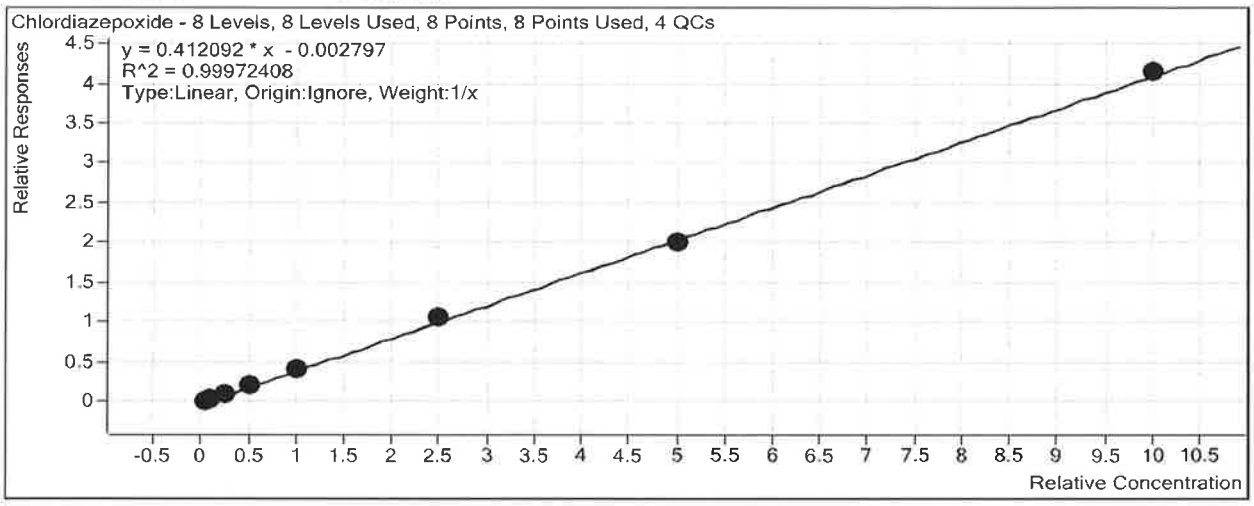
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	☑	5	5.4	108.1
P2 a cal 2-10ng.d	2	☑	10	8.9	89.1
P2 a QC 10 (QC1).d	2	☑	10	8.9	88.7
P2 a cal 3-25ng.d	3	☑	25	22.7	91.0
P2 a cal 4-50ng.d	4	☑	50	45.6	91.2
P2 a cal 5-100ng.d	5	☑	100	96.9	96.9
P2 a QC 100 (QC2).d	5	☑	100	103.7	103.7
P2 a cal 6-250ng.d	6	☑	250	258.4	103.3
P2 a QC 250 (QC 3).d	6	☑	250	251.0	100.4
P2 a cal 7-500ng.d	7	☑	500	533.6	106.7
P2 a cal 8-1000ng.d	8	☑	1000	1136.2	113.6
P2 a QC 1000 (QC 4).d	8	☑	1000	1085.3	108.5

ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin

Last Calib Update 10/12/2018 10:51 AM **Analyst Name** ISP TOX

Target Compound *Chlordiazepoxide*
Internal Standard *Chlordiazepoxide-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	☑	5	5.3	105.9
P2 a cal 2-10ng.d	2	☑	10	10.1	101.0
P2 a QC 10 (QC1).d	2	☑	10	9.2	91.8
P2 a cal 3-25ng.d	3	☑	25	24.3	97.4
P2 a cal 4-50ng.d	4	☑	50	48.7	97.4
P2 a cal 5-100ng.d	5	☑	100	96.9	96.9
P2 a QC 100 (QC2).d	5	☑	100	102.9	102.9
P2 a cal 6-250ng.d	6	☑	250	256.0	102.4
P2 a QC 250 (QC 3).d	6	☑	250	249.8	99.9
P2 a cal 7-500ng.d	7	☑	500	491.9	98.4
P2 a cal 8-1000ng.d	8	☑	1000	1006.8	100.7
P2 a QC 1000 (QC 4).d	8	☑	1000	988.6	98.9

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

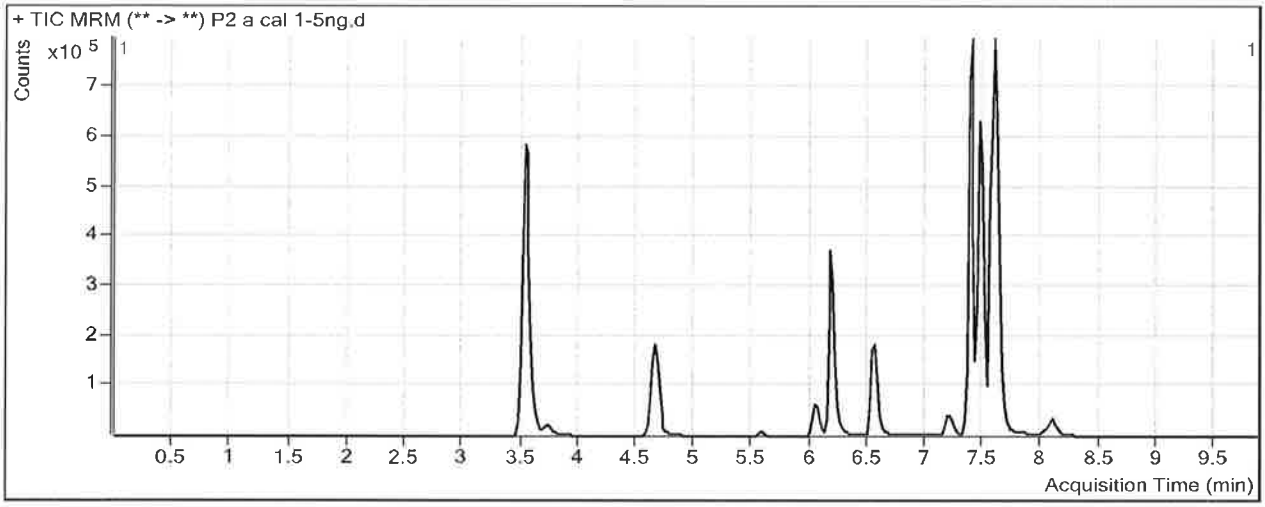
P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:06 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 10:38	**Data File**	P2 a cal 1-5ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 1-5ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.556	293961	2698361	0.1089	5.8667
Levamisole	Pseudoephedrine-D3	3.724	52240	2698361	0.0194	5.2520
Zopiclone	Zopiclone-D4	6.051	27310	207416	0.1317	5.6257
Doxepin	Doxepin-D3	7.208	19147	148973	0.1285	6.1829
Midazolam	Midazolam-D4	7.565	18083	695216	0.0260	5.4030
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	29413	1546575	0.0190	5.2937

P

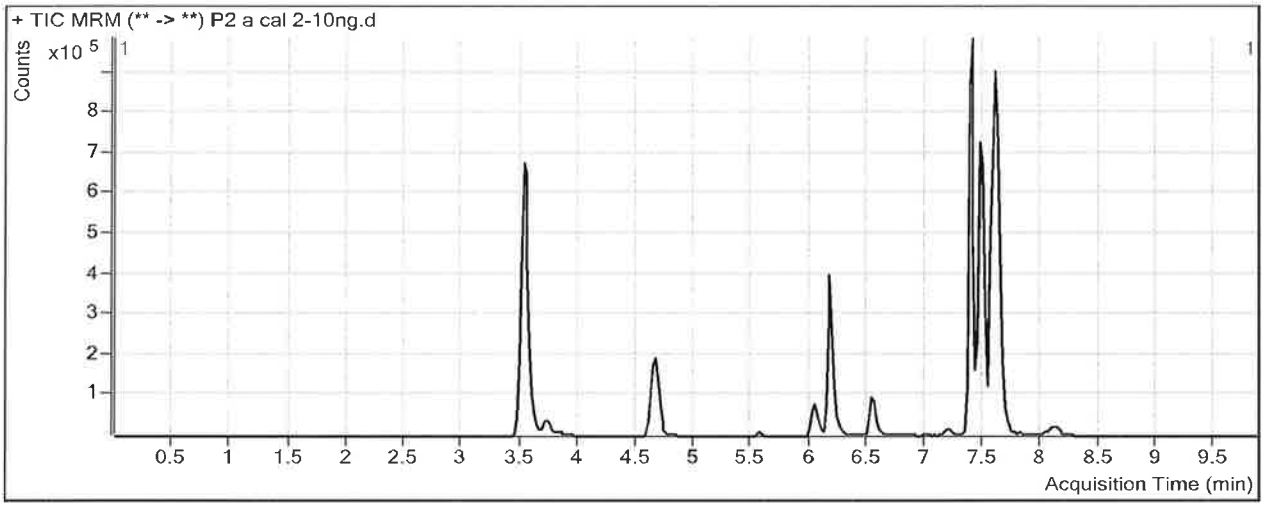
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:06 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 11:04	**Data File**	P2 a cal 2-10ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 2-10ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.556	625096	2792787	0.2238	10.1833
Levamisole	Pseudoephedrine-D3	3.724	113713	2792787	0.0407	9.4477
Zopiclone	Zopiclone-D4	6.031	55841	207756	0.2688	9.8667
Doxepin	Doxepin-D3	7.188	12257	43569	0.2813	10.4038
Midazolam	Midazolam-D4	7.565	32517	693940	0.0469	8.9149
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	67197	1730319	0.0388	10.1026

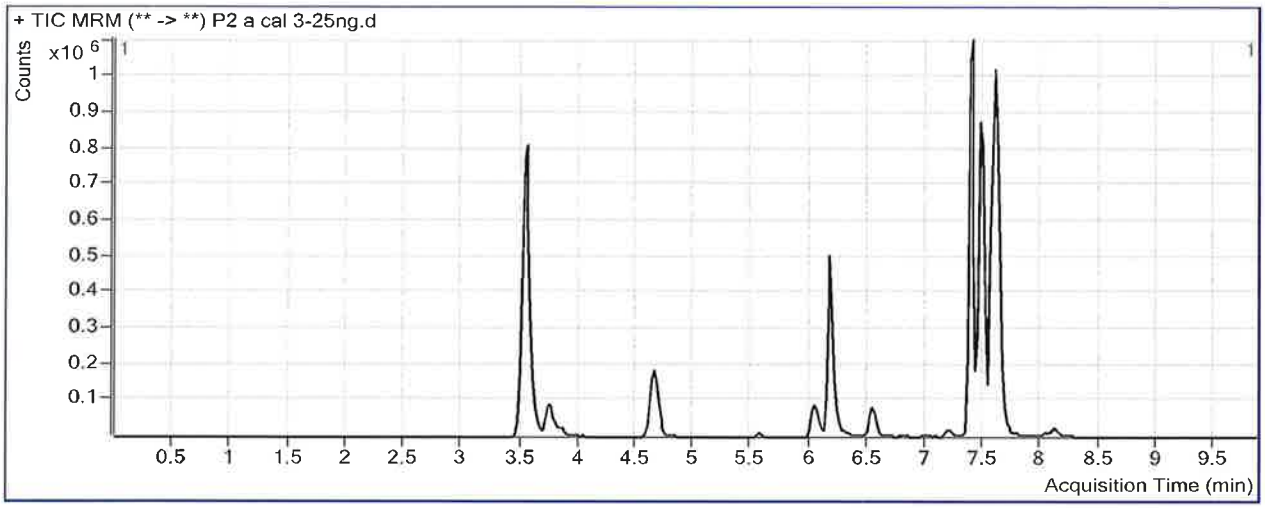
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:06 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 11:29	**Data File**	P2 a cal 3-25ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 3-25ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-C5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.556	1497817	2565248	0.5839	23.7119
Levamisole	Pseudoephedrine-D3	3.724	280548	2565248	0.1094	22.9343
Zopiclone	Zopiclone-D4	6.031	120559	161508	0.7465	24.6419
Doxepin	Doxepin-D3	7.188	26024	37745	0.6895	21.6785
Midazolam	Midazolam-D4	7.565	82022	636005	0.1290	22.7455
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	150554	1544131	0.0975	24.3387

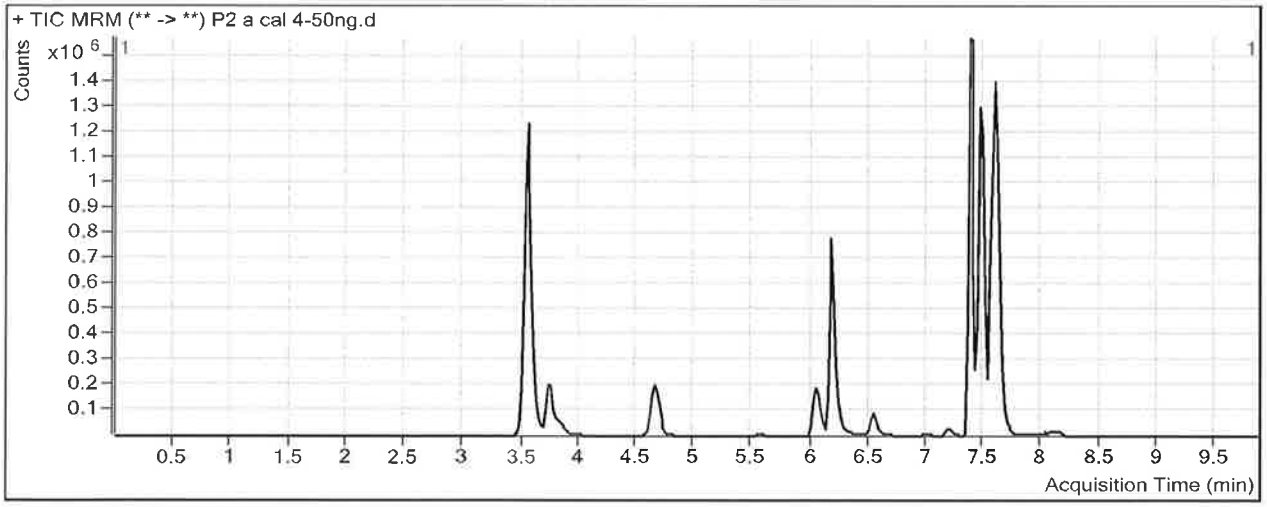
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:06 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 11:55	**Data File**	P2 a cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 4-50ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.556	3188588	2657526	1.1998	46.8548
Levamisole	Pseudoephedrine-D3	3.724	618718	2657526	0.2328	47.1877
Zopiclone	Zopiclone-D4	6.031	331104	220850	1.4992	47.9259
Doxepin	Doxepin-D3	7.188	50138	32010	1.5663	45.9018
Midazolam	Midazolam-D4	7.565	165272	624472	0.2647	45.6029
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	307683	1554362	0.1979	48.7136

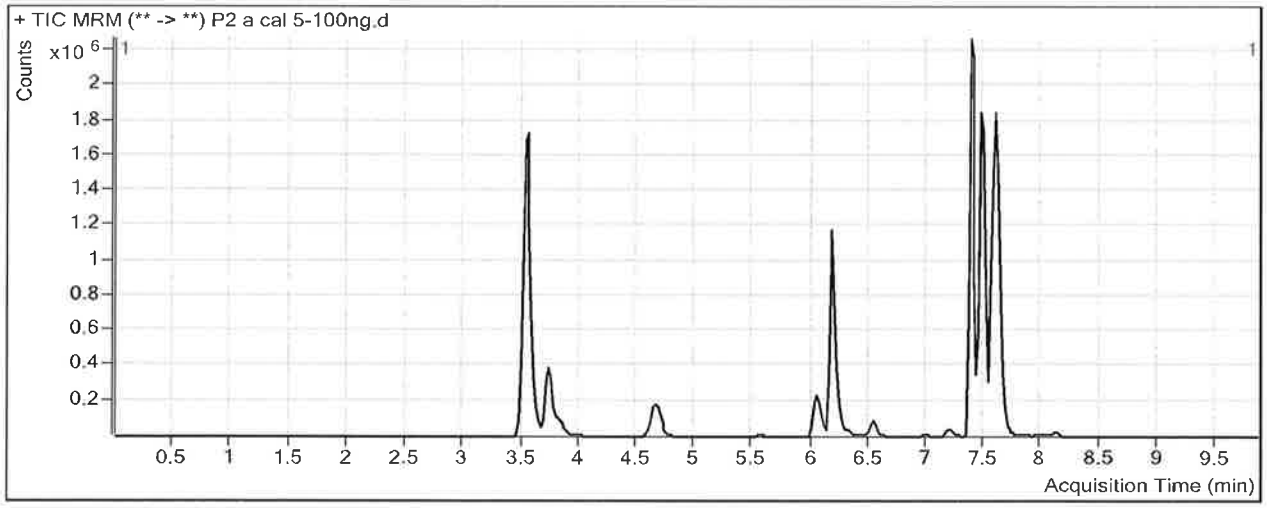
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 12:20	**Data File**	P2 a cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 5-100ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.556	5820272	2392550	2.4327	93.1760
Levamisole	Pseudoephedrine-D3	3.724	1162620	2392550	0.4859	96.9148
Zopiclone	Zopiclone-D4	6.031	431443	140353	3.0740	96.6350
Doxepin	Doxepin-D3	7.188	97445	28348	3.4375	97.5914
Midazolam	Midazolam-D4	7.565	327348	575066	0.5692	96.9086
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	533767	1346649	0.3964	96.8627

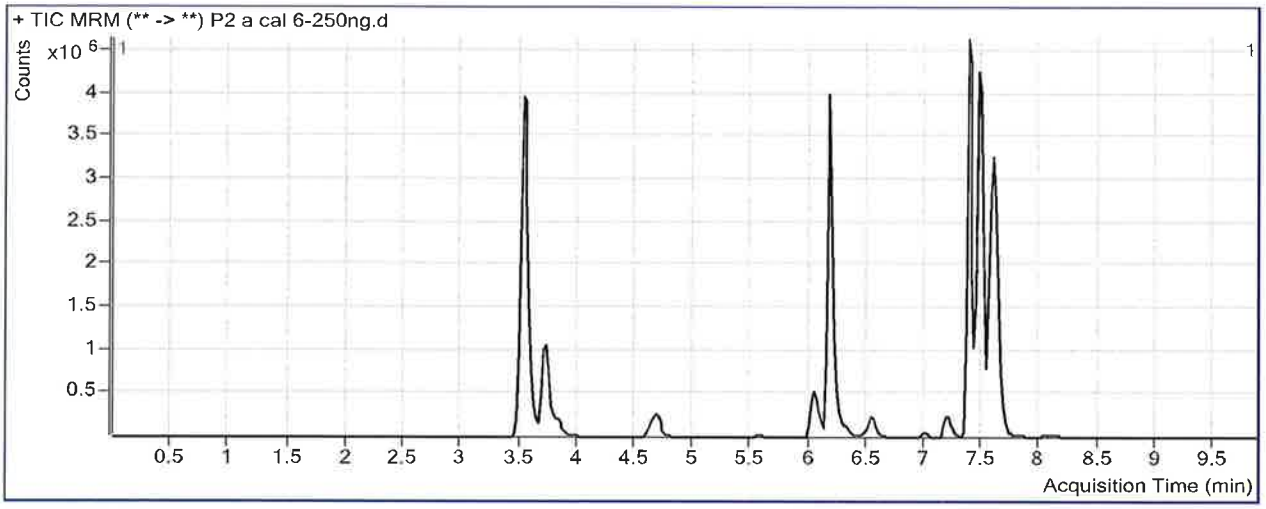
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 12:46	**Data File**	P2 a cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 6-250ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.556	15935802	2487329	6.4068	242.4959
Levamisole	Pseudoephedrine-D3	3.724	3116265	2487329	1.2529	247.5841
Zopiclone	Zopiclone-D4	6.031	1120596	144195	7.7714	241.9324
Doxepin	Doxepin-D3	7.188	724513	85135	8.5102	237.7231
Midazolam	Midazolam-D4	7.565	908343	594602	1.5276	258.3522
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	1185086	1126379	1.0521	255.9908

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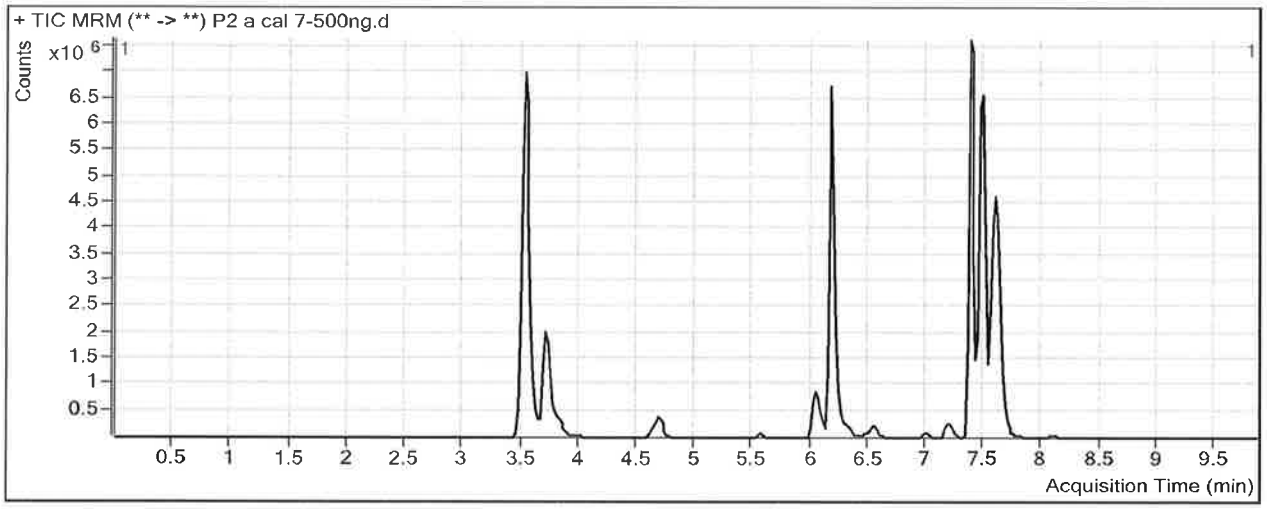
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 13:12	**Data File**	P2 a cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 7-500ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.536	29683002	2223736	13.3483	503.3076
Levamisole	Pseudoephedrine-D3	3.704	5854248	2223736	2.6326	518.6515
Zopiclone	Zopiclone-D4	6.031	1819391	113691	16.0030	496.5450
Doxepin	Doxepin-D3	7.188	888351	50297	17.6621	490.5431
Midazolam	Midazolam-D4	7.565	1569773	496460	3.1619	533.6454
Chlordiazepoxide	Chlordiazepoxide-D5	7.607	1845202	911544	2.0243	491.8943

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

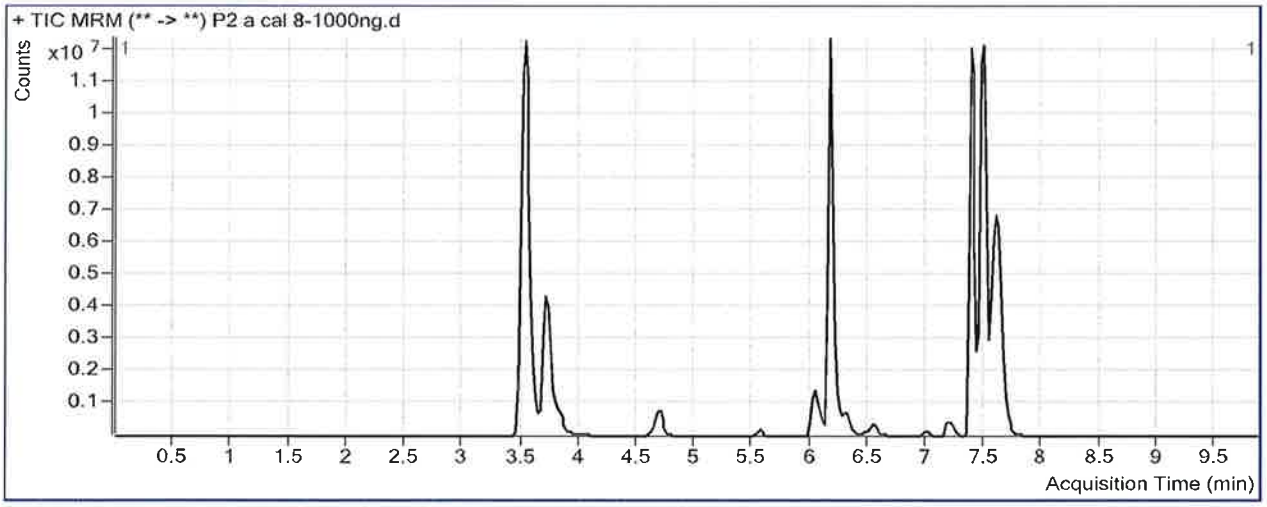
P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\101018 MDQ P1 P2 SP\QuantResults\P2a final.batch.bin		
Analysis Time	10/12/2018 10:51 AM	**Analyst Name**	ISPUser
Report Time	10/12/2018 11:07 AM	**Reporter Name**	ISPUser
Last Calib Update	10/12/2018 10:51 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-11 13:37	**Data File**	P2 a cal 8-1000ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 8-1000ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 06-22-18.m
Position	P1-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
Pseudoephedrine	Pseudoephedrine-D3	3.536	59890174	2222187	26.9510	1014.4038
Levamisole	Pseudoephedrine-D3	3.704	12956662	2222187	5.8306	1146.9239
Zopiclone	Zopiclone-D4	6.011	2621183	79857	32.8236	1016.8274
Doxepin	Doxepin-D3	7.188	1469201	39506	37.1893	1029.9753
Midazolam	Midazolam-D4	7.565	3008776	446457	6.7392	1136.2365
Chlordiazepoxide	Chlordiazepoxide-D5	7.627	3016887	727634	4.1462	1006.8036