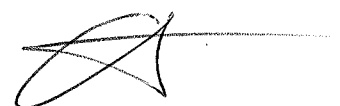


Boyle

Worklist: 1979

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1979	1	98855	AM 28 Blood Multi-Drug Quant	
C2017-2011	1	98742	AM 28 Blood Multi-Drug Quant	
C2017-2085	2	98743	AM 28 Blood Multi-Drug Quant	
C2017-2091	1	98744	AM 28 Blood Multi-Drug Quant	
C2017-2093	1	98745	AM 28 Blood Multi-Drug Quant	
C2017-2094	1	98746	AM 28 Blood Multi-Drug Quant	
C2017-2095	1	98747	AM 28 Blood Multi-Drug Quant	
C2017-2101	1	98748	AM 28 Blood Multi-Drug Quant	
C2017-2141	1	98749	AM 28 Blood Multi-Drug Quant	
C2017-2142	1	98750	AM 28 Blood Multi-Drug Quant	
C2017-2143	1	98751	AM 28 Blood Multi-Drug Quant	
C2017-2146	1	98752	AM 28 Blood Multi-Drug Quant	
M2017-4354	1	98753	AM 28 Blood Multi-Drug Quant	
M2017-4556	1	98754	AM 28 Blood Multi-Drug Quant	
P2017-2436	2	98755	AM 28 Blood Multi-Drug Quant	



Multi-Drug Quantitation in Blood by LC-MS/M

Extraction Date: 10-24-17
Plate lot#: 0507680

Analyst: Anne Nord
Plate Expiration: 5/31/2018 6/5/2018 amn

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide
20% Methanol in Water

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

Blank Blood Lot: 321632-1

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: 2609543** in wells of analytical (standards) plate. ^{390993 amn}
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 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: 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: 102417 mda pl Batch Name: 102417 mda pl a
- 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%, S/N for primary and secondary transitions > 10 .
- 5. Did all QCs pass for each analyte? Y/N _____
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Curves limited
phenetermine 10-1000
Lorazepam 5-500
Methamphetamine 50-1000
Buprenorphine 5-50
Nor fentanyl 2.5-100

Fentanyl - Not evaluated positive response in Negative control.

Toxicology AM method 28 panel 1 external prep information
working solution 10000 ng/ml in meoh morphine, dextromethorphan, lorazepam, oxazepam
Stock solution 1mg/ml 100 ul each in 9600 ul meOH lot (Fisher 168427)
Ppd 8/17/17 Exp: 2/17/17 lot 21717 ~~8~~ by AMN

Drug	lot	expiration
Morphine	fe08141515	11/1/2020
dextromethorphan	fn07231501	7/1/2020
Lorazepam	fe04231401	5/1/2019
Oxazepam	fe08141401	10/1/2018

AM 28 control 50 ul working solution lot (21717) in 9950 ul blood lot (321632)
ppd 8/17/17 Exp 2/17/17 ~~8~~ by AMN Concentration 50 ng/ml each



ISP FORENSICS - Cd'A Instrument # 62340

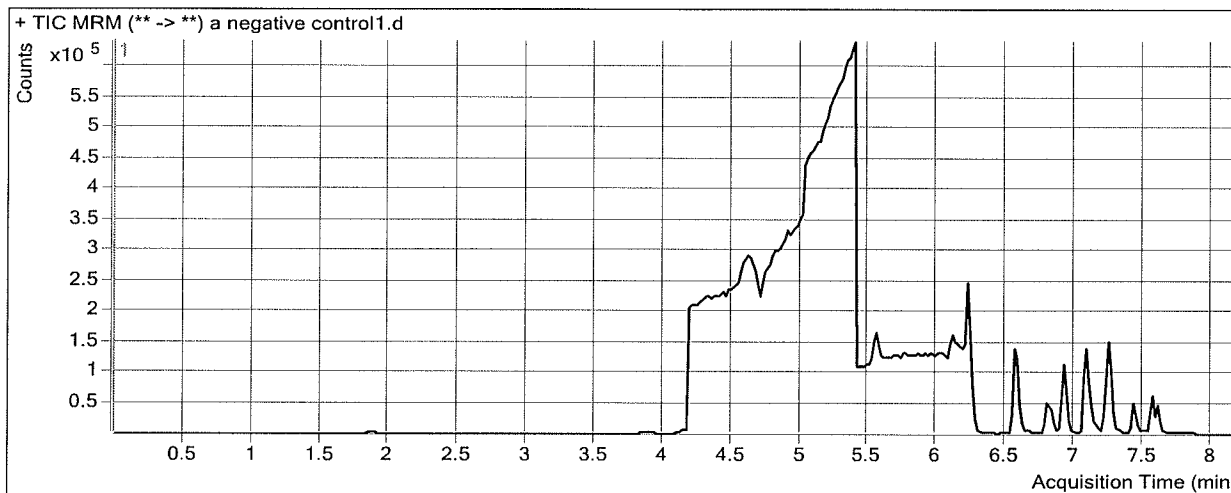
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin
Analysis Time 10/25/2017 10:51 AM **Analyst Name** anord
Report Time 10/26/2017 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 10/25/2017 10:51 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 21:50 **Data File** a negative control1.d
Sample Type Sample **Sample Name** a negative control1
Dilution 1 **Acq Method** Quant Panel 1a 10-17.m
Position P1-F2 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.426	6781	96201	0.0705	4.1006 <i>LS</i>

ISP FORENSICS - Cd'A Instrument # 62340

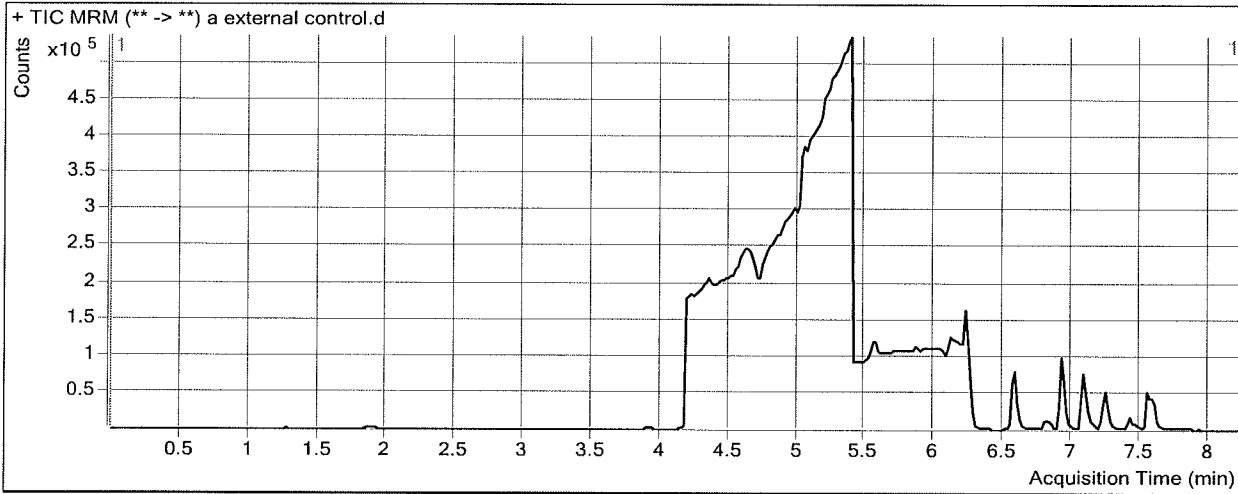
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-25 04:48	Data File	a external control.d
Sample Type	Sample	Sample Name	a external control
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-H4	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	5722	1579	3.6246	33.6327
Dextromethorphan	Dextromethorphan-D3	7.248	8493	8616	0.9857	47.7966
Lorazepam	Alprazolam-D5	7.582	10386	77141	0.1346	52.8423

ISP FORENSICS - Cd'A Instrument # 62340

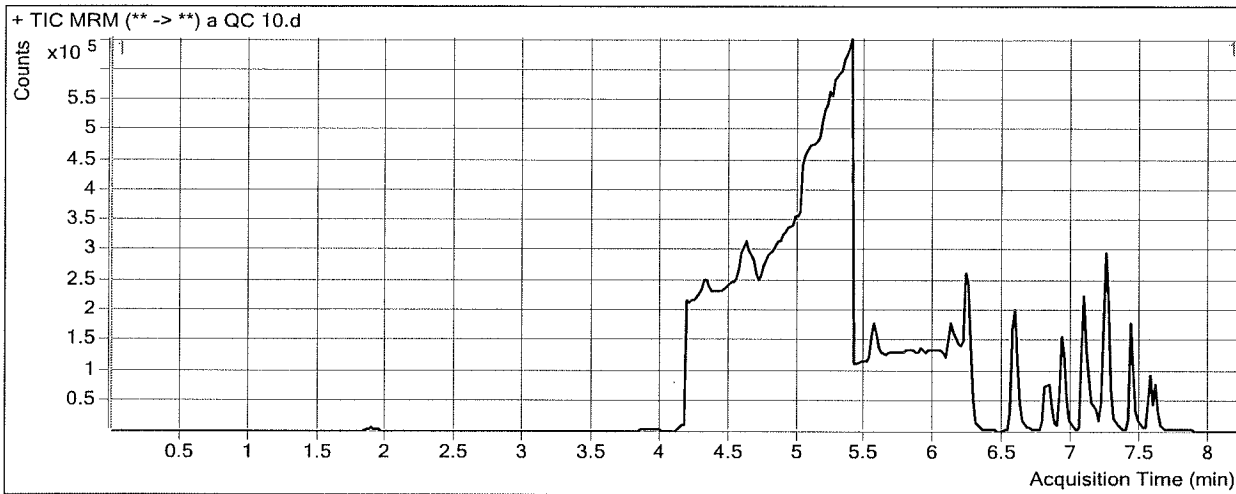
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-24 22:15	Data File	a QC 10.d
Sample Type	QC	Sample Name	a QC 10
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-A2	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	1571	1663	0.9445	8.4960
Hydromorphone	Hydromorphone-D6	1.909	8049	24776	0.3249	11.3768
Codeine	Codeine-D6	3.993	3035	13127	0.2312	9.7826
Amphetamine	Amphetamine-D11	4.323	46508	51235	0.9077	10.3868
Oxycodone	Oxycodone-D6	4.369	16838	73189	0.2301	9.8592
Hydrocodone	Hydrocodone-D6	4.674	11778	63556	0.1853	9.3171
Norhydrocodone	Norhydrocodone-D3	4.719	942	23791	0.0396	9.2944
6-MAM	6-MAM-D6	4.908	500	21277	0.0235	9.8708
Phentermine	Phentermine-D5	5.604	26748	183524	0.1457	4.8822
Dextroprphan	Dextroprphan-D3	6.123	13089	106352	0.1231	10.1717
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	11391	49895	0.2283	9.3740
Tramadol	Tramadol-13C-D3	6.262	113477	539282	0.2104	10.2054
Doxylamine	Doxylamine-D5	6.601	108397	516896	0.2097	10.3278
Meprobamate	Meprobamate-D7	6.932	6447	32618	0.1976	10.4867
Bupropion	Bupropion-D9	6.829	42293	208904	0.2025	9.8448
Zolpidem	Zolpidem-D6	6.940	71127	350787	0.2028	9.8721
Venlafaxine	Venlafaxine-D6	7.085	101757	473736	0.2148	10.0006
Citalopram	Citalopram-D6	7.217	50754	228866	0.2218	10.3913
Dextromethorphan	Dextromethorphan-D3	7.248	13293	60114	0.2211	11.0397
Trazodone	Trazodone-D6	7.155	36640	159640	0.2295	10.2193
Diphenhydramine	Diphenhydramine-D3	7.251	88816	453619	0.1958	10.2125
Promethazine	Promethazine-D3	7.426	59066	307165	0.1923	10.8489
Clonazepam	Clonazepam-D4	7.482	5164	8346	0.6188	10.3377

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

a Qc 10

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	2179	9420	0.2313	10.3423
Carisoprodol	Carisoprodol-D7	7.572	25634	122264	0.2097	11.6709
Alprazolam	Alprazolam-D5	7.605	24511	95630	0.2563	10.1758
Lorazepam	Alprazolam-D5	7.582	2691	95630	0.0281	10.6698



ISP FORENSICS - Cd'A Instrument # 62340

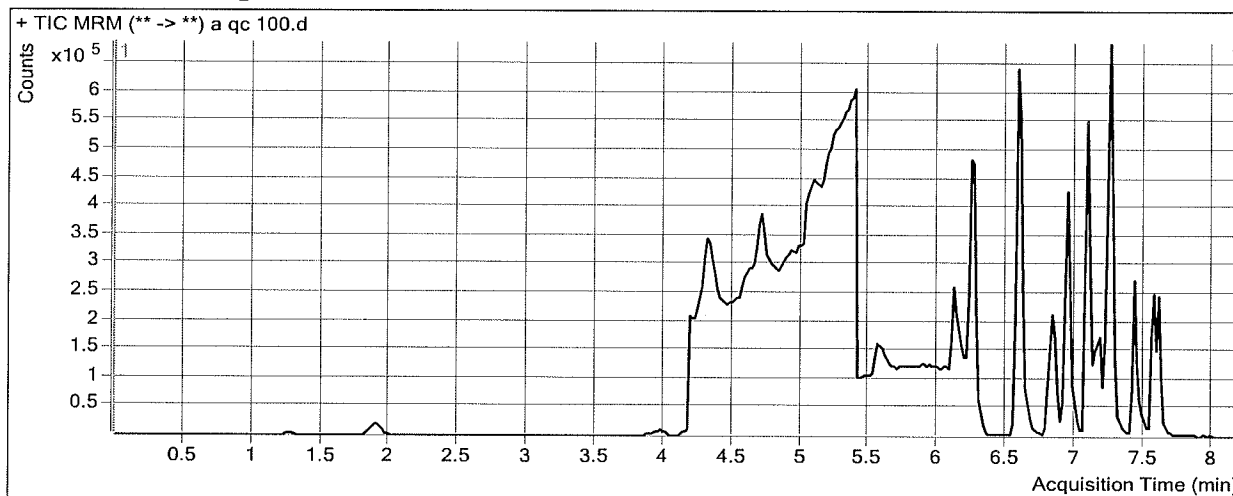
Multi-Drug Confirmatory Analysis Report

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Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-25 01:50	Data File	a qc 100.d
Sample Type	QC	Sample Name	a qc 100
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-B2	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	14998	1600	9.3725	87.5424
Hydromorphone	Hydromorphone-D6	1.909	67072	21875	3.0661	101.4858
Codeine	Codeine-D6	3.973	28116	11778	2.3873	99.5604
Amphetamine	Amphetamine-D11	4.323	363304	44958	8.0809	107.5787
Oxycodone	Oxycodone-D6	4.369	153374	62869	2.4396	99.1939
Hydrocodone	Hydrocodone-D6	4.674	111424	57108	1.9511	109.5775
Methamphetamine	Methamphetamine-D11	4.721	193514	156673	1.2351	99.7476
Norhydrocodone	Norhydrocodone-D3	4.719	8592	20470	0.4197	95.2800
6-MAM	6-MAM-D6	4.928	4613	19010	0.2427	94.2752
Phentermine	Phentermine-D5	5.604	118861	160272	0.7416	91.5683
Dextropran	Dextropran-D3	6.123	120223	92758	1.2961	103.1979
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	102030	44057	2.3158	111.7349
Tramadol	Tramadol-13C-D3	6.262	940731	462453	2.0342	104.6514
Doxylamine	Doxylamine-D5	6.601	1003412	469594	2.1368	107.1007
Meprobamate	Meprobamate-D7	6.952	56080	27446	2.0433	116.4376
Bupropion	Bupropion-D9	6.829	358497	167652	2.1383	103.9081
Zolpidem	Zolpidem-D6	6.940	591061	289256	2.0434	105.2635
Venlafaxine	Venlafaxine-D6	7.085	884873	405741	2.1809	101.8403
Citalopram	Citalopram-D6	7.217	434152	192601	2.2542	103.7242
Dextromethorphan	Dextromethorphan-D3	7.227	93915	44655	2.1031	101.5112
Trazodone	Trazodone-D6	7.155	261930	114089	2.2958	99.4449
Diphenhydramine	Diphenhydramine-D3	7.251	710456	348748	2.0372	104.2085
Promethazine	Promethazine-D3	7.426	321839	188719	1.7054	94.6760

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

QC 100

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.462	51572	7199	7.1634	105.9298
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	18245	8440	2.1616	97.0392
Carisoprodol	Carisoprodol-D7	7.572	234696	125270	1.8735	99.4712
Alprazolam	Alprazolam-D5	7.605	203771	80548	2.5298	97.4146
Lorazepam	Alprazolam-D5	7.582	19445	80548	0.2414	95.1206



ISP FORENSICS - Cd'A Instrument # 62340

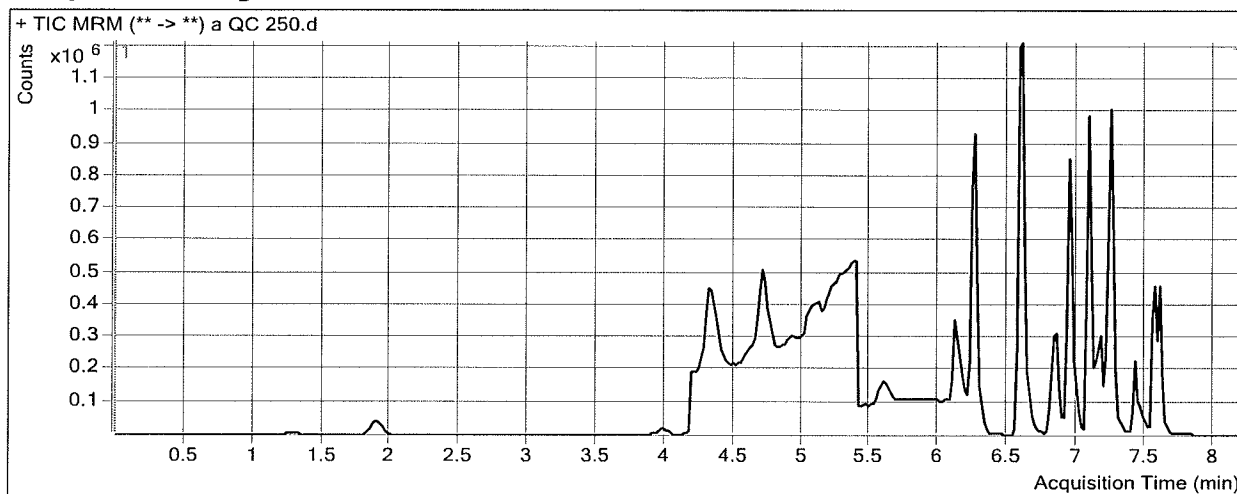
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-25 05:13	Data File	a QC 250.d
Sample Type	QC	Sample Name	a QC 250
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-C2	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	34074	1615	21.1027	197.5593
Hydromorphone	Hydromorphone-D6	1.909	157242	20948	7.5063	247.4427
Codeine	Codeine-D6	3.973	65657	11070	5.9311	247.1236
Amphetamine	Amphetamine-D11	4.323	738995	40661	18.1747	244.3420
Oxycodone	Oxycodone-D6	4.369	383318	60870	6.2973	255.1698
Hydrocodone	Hydrocodone-D6	4.694	253199	53970	4.6915	265.1705
Methamphetamine	Methamphetamine-D11	4.721	591811	133403	4.4363	279.7268
Norhydrocodone	Norhydrocodone-D3	4.719	18736	17292	1.0835	245.4276
6-MAM	6-MAM-D6	4.928	11237	17876	0.6286	242.8931
Phentermine	Phentermine-D5	5.604	221959	136261	1.6289	220.6507
Dextrophan	Dextrophan-D3	6.123	263953	83449	3.1631	251.2557
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	225649	41396	5.4510	265.4623
Tramadol	Tramadol-13C-D3	6.262	2078095	426717	4.8700	251.5015
Doxylamine	Doxylamine-D5	6.601	2274675	437276	5.2019	261.0266
Meprobamate	Meprobamate-D7	6.952	132637	28003	4.7365	271.0479
Bupropion	Bupropion-D9	6.849	633945	128942	4.9165	238.8973
Zolpidem	Zolpidem-D6	6.940	1396694	282127	4.9506	255.9313
Venlafaxine	Venlafaxine-D6	7.085	1844787	358043	5.1524	240.6463
Citalopram	Citalopram-D6	7.217	748549	145142	5.1574	237.0477
Dextromethorphan	Dextromethorphan-D3	7.227	149557	27831	5.3737	258.7331
Trazodone	Trazodone-D6	7.155	449572	80634	5.5754	241.0606
Diphenhydramine	Diphenhydramine-D3	7.251	1220260	254258	4.7993	245.2060
Promethazine	Promethazine-D3	7.426	347748	71319	4.8760	270.3295

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

a QC 250

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.462	114165	6579	17.3526	254.7549
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	25278	7810	3.2364	145.3177
Carisoprodol	Carisoprodol-D7	7.572	534769	112175	4.7673	252.1721
Alprazolam	Alprazolam-D5	7.605	437914	71193	6.1511	236.3723
Lorazepam	Alprazolam-D5	7.582	40676	71193	0.5714	225.7657



ISP FORENSICS - Cd'A Instrument # 62340

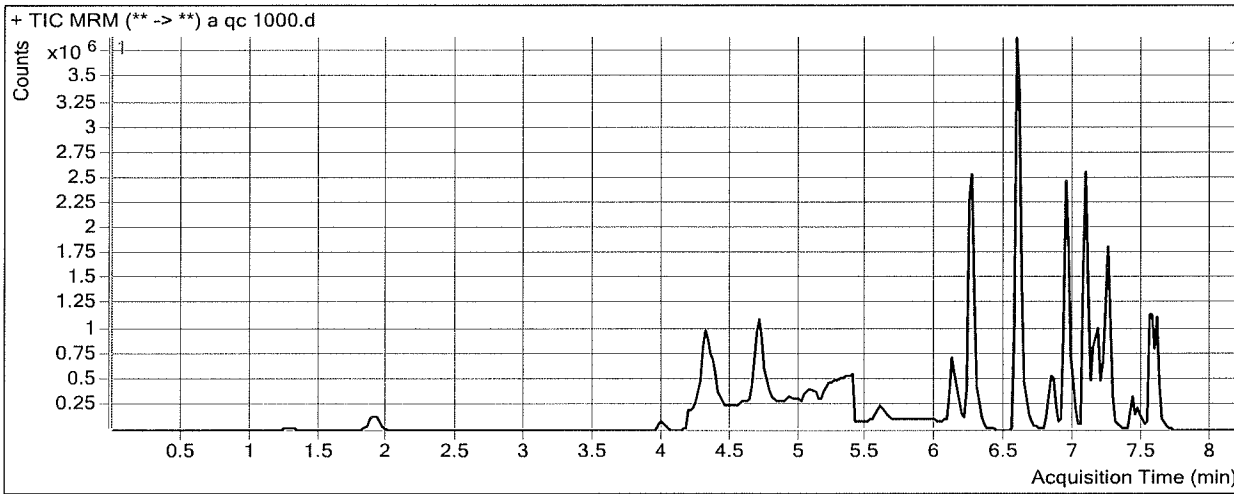
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-25 05:39	Data File	a qc 1000.d
Sample Type	QC	Sample Name	a qc 1000
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-D2	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	111456	1324	84.1728	789.0910
Hydromorphone	Hydromorphone-D6	1.909	543242	17570	30.9181	1017.0323
Codeine	Codeine-D6	3.993	204824	8070	25.3823	1057.0565
Amphetamine	Amphetamine-D11	4.323	2158874	36209	59.6219	805.9223
Oxycodone	Oxycodone-D6	4.369	1390442	62420	22.2756	901.1971
Hydrocodone	Hydrocodone-D6	4.674	816048	47935	17.0240	965.3942
Methamphetamine	Methamphetamine-D11	4.721	1619827	114508	14.1459	825.6391
Norhydrocodone	Norhydrocodone-D3	4.719	55963	11427	4.8976	1108.1511
6-MAM	6-MAM-D6	4.928	39912	15267	2.6143	1007.6139
Phentermine	Phentermine-D5	5.604	690362	106617	6.4752	925.6662
Dextroprphan	Dextroprphan-D3	6.123	725997	57676	12.5876	998.6596
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	664851	33647	19.7596	967.0683
Tramadol	Tramadol-13C-D3	6.262	6745300	350508	19.2444	995.8846
Doxylamine	Doxylamine-D5	6.579	7131863	361889	19.7073	989.4583
Meprobamate	Meprobamate-D7	6.952	402572	23670	17.0076	975.4924
Bupropion	Bupropion-D9	6.849	1150181	59539	19.3182	938.6661
Zolpidem	Zolpidem-D6	6.940	4532142	245831	18.4360	954.8228
Venlafaxine	Venlafaxine-D6	7.085	5823516	277829	20.9608	979.0883
Citalopram	Citalopram-D6	7.217	1562648	72896	21.4365	984.6317
Dextromethorphan	Dextromethorphan-D3	7.227	281620	13240	21.2703	1022.9205
Trazodone	Trazodone-D6	7.155	1614417	69616	23.1904	1001.6909
Diphenhydramine	Diphenhydramine-D3	7.251	2527713	133540	18.9285	966.4536
Promethazine	Promethazine-D3	7.426	645774	30794	20.9706	1161.9930

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

a qc 1000

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.462	324261	4882	66.4166	971.3929
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	147069	7318	20.0959	902.5651
Carisoprodol	Carisoprodol-D7	7.572	1471834	78271	18.8044	992.8968
Alprazolam	Alprazolam-D5	7.605	1246239	50414	24.7200	948.9002
Lorazepam	Alprazolam-D5	7.602	100354	50414	1.9906	787.7402

A

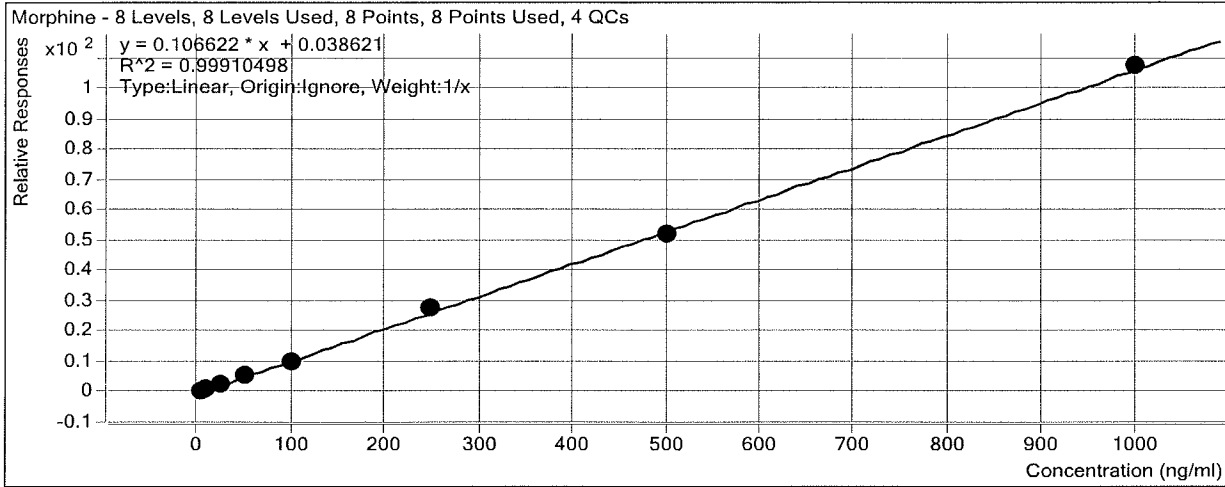
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Morphine
Internal Standard Morphine-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	98.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	103.1
a QC 10	2	<input checked="" type="checkbox"/>	10	8.5	85.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.2	96.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.8	105.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	93.2	93.2
a qc 100	5	<input checked="" type="checkbox"/>	100	87.5	87.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	261.6	104.6
a QC 250	6	<input checked="" type="checkbox"/>	250	197.6	79.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	486.8	97.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1006.1	100.6
a qc 1000	8	<input checked="" type="checkbox"/>	1000	789.1	78.9

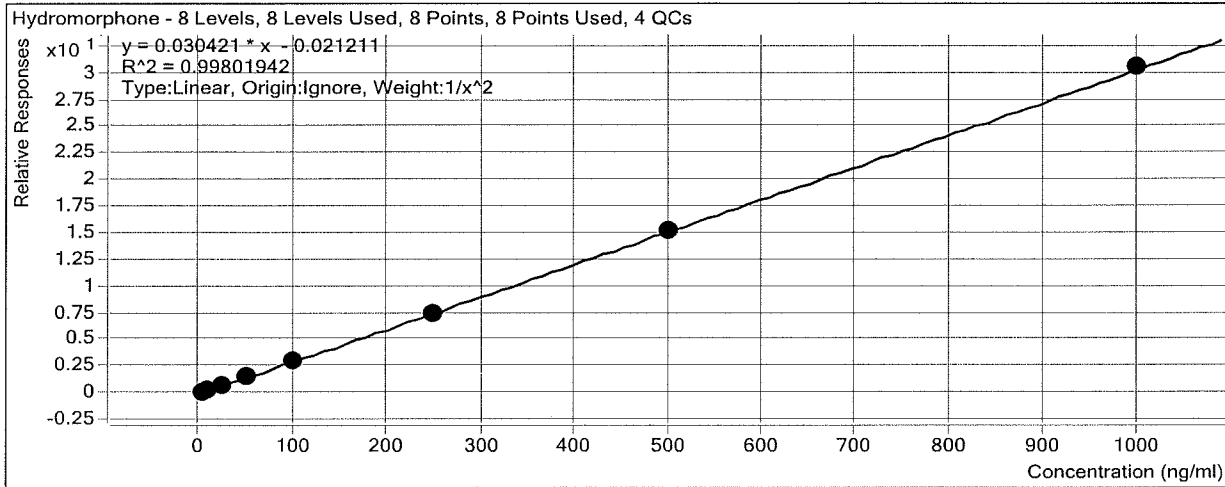
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Hydromorphone
Internal Standard Hydromorphone-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.8	95.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.8	108.3
a QC 10	2	<input checked="" type="checkbox"/>	10	11.4	113.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.1	98.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	97.0	97.0
a qc 100	5	<input checked="" type="checkbox"/>	100	101.5	101.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.4	98.2
a QC 250	6	<input checked="" type="checkbox"/>	250	247.4	99.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	503.3	100.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1002.8	100.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1017.0	101.7

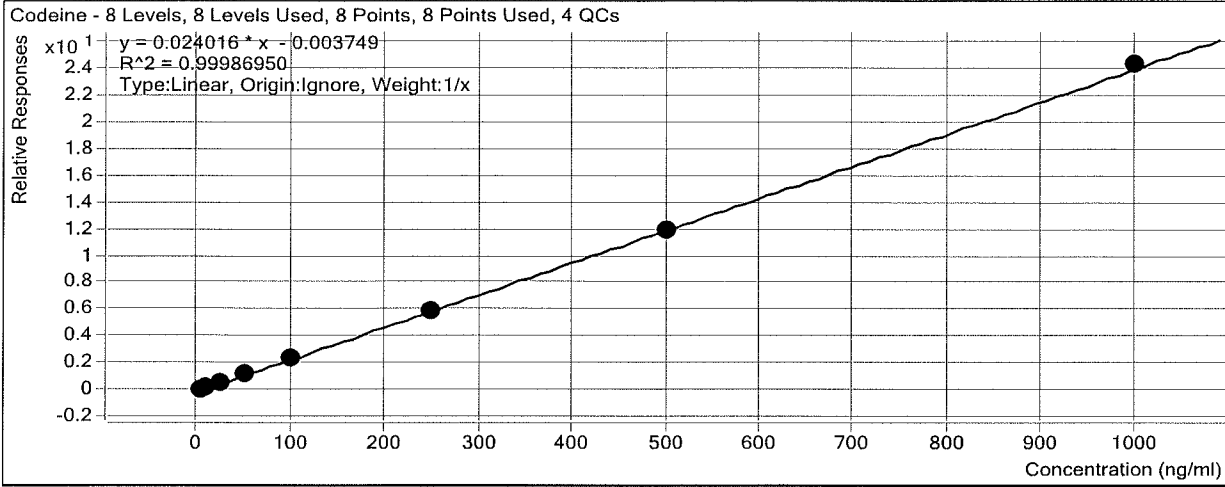
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Codeine
Internal Standard Codeine-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.4	107.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	96.4
a QC 10	2	<input checked="" type="checkbox"/>	10	9.8	97.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	98.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.9	99.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	97.8	97.8
a qc 100	5	<input checked="" type="checkbox"/>	100	99.6	99.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	248.0	99.2
a QC 250	6	<input checked="" type="checkbox"/>	250	247.1	98.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	495.5	99.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1009.0	100.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1057.1	105.7

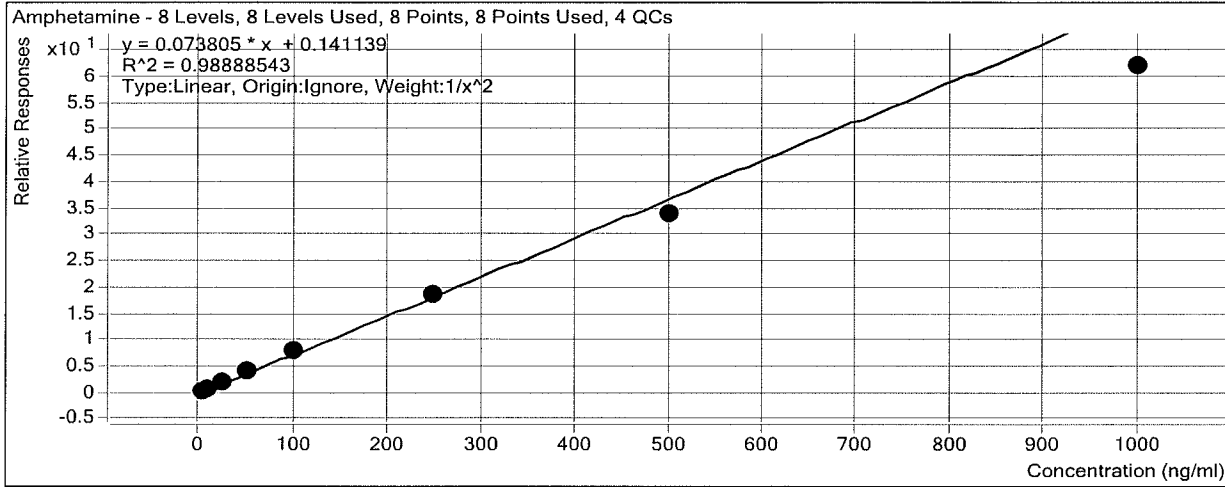
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Amphetamine
Internal Standard Amphetamine-D11



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	94.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.6	106.1
a QC 10	2	<input checked="" type="checkbox"/>	10	10.4	103.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.7	106.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	54.3	108.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	107.6	107.6
a qc 100	5	<input checked="" type="checkbox"/>	100	107.6	107.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.9	101.2
a QC 250	6	<input checked="" type="checkbox"/>	250	244.3	97.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	457.0	91.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	836.3	83.6
a qc 1000	8	<input checked="" type="checkbox"/>	1000	805.9	80.6

ISP Forensics Calibration Curve Report

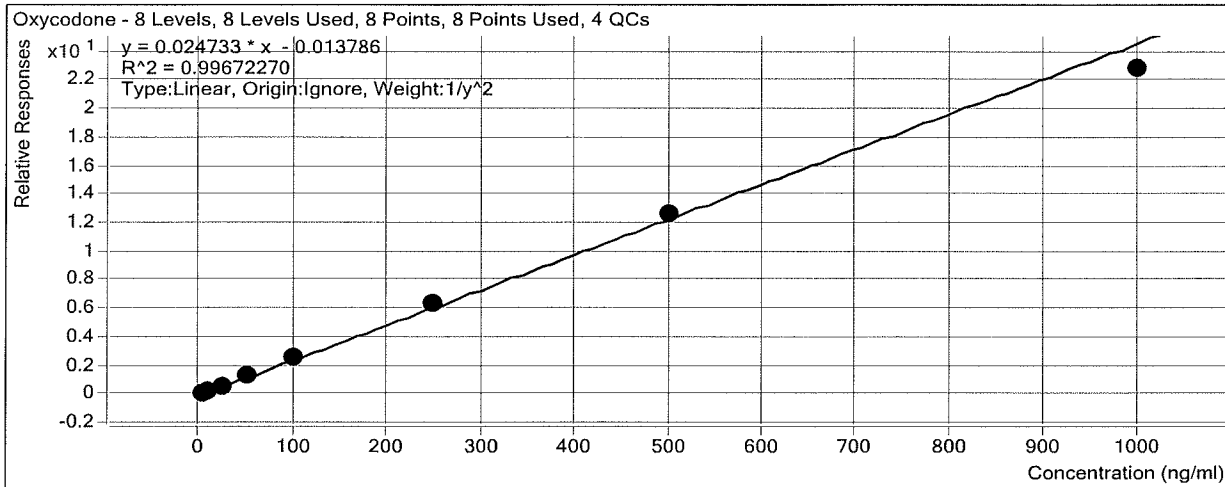
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Oxycodone

Internal Standard Oxycodone-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	96.8
a QC 10	2	<input checked="" type="checkbox"/>	10	9.9	98.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.1	96.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.5	107.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.1	104.1
a qc 100	5	<input checked="" type="checkbox"/>	100	99.2	99.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.5	102.6
a QC 250	6	<input checked="" type="checkbox"/>	250	255.2	102.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	514.0	102.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	922.4	92.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	901.2	90.1

ISP Forensics Calibration Curve Report

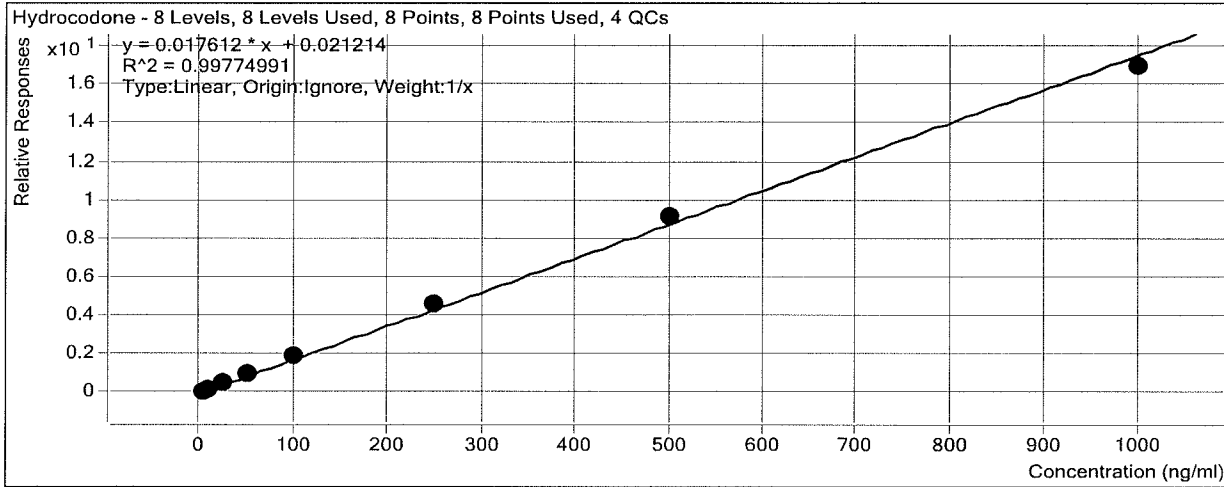
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Hydrocodone

Internal Standard Hydrocodone-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.2	83.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	94.9
a QC 10	2	<input checked="" type="checkbox"/>	10	9.3	93.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.7	105.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	109.5	109.5
a qc 100	5	<input checked="" type="checkbox"/>	100	109.6	109.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	259.5	103.8
a QC 250	6	<input checked="" type="checkbox"/>	250	265.2	106.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	519.4	103.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	959.5	95.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	965.4	96.5

ISP Forensics Calibration Curve Report

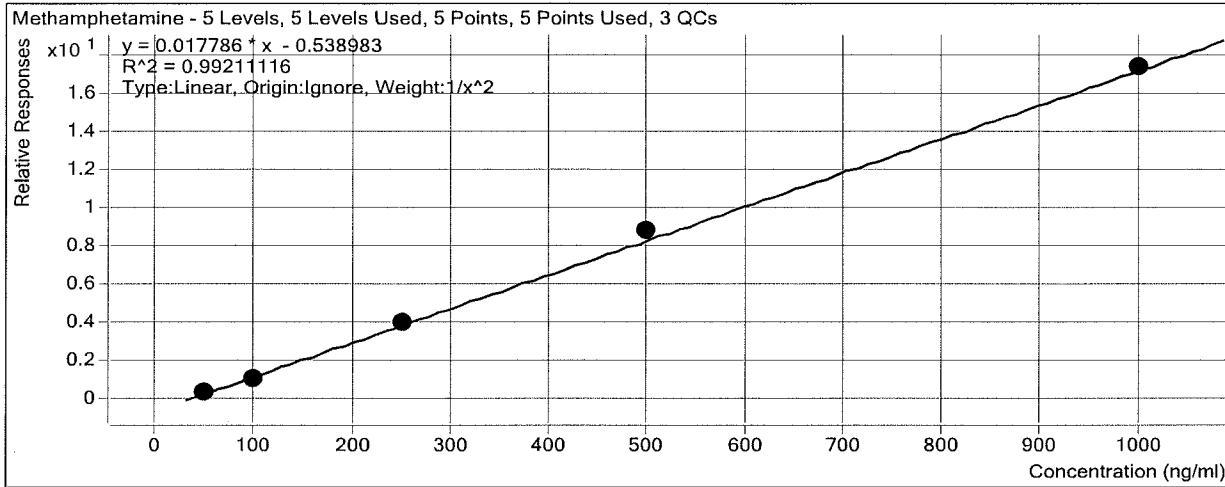
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Methamphetamine*

Internal Standard *Methamphetamine-D11*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	0.0	0.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	0.0	0.0
a QC 10	2	<input checked="" type="checkbox"/>	10	0.0	0.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	0.0	0.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.5	105.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	88.3	88.3
a qc 100	5	<input checked="" type="checkbox"/>	100	99.7	99.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	253.0	101.2
a QC 250	6	<input checked="" type="checkbox"/>	250	279.7	111.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	524.8	105.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1004.6	100.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	825.6	82.6

*Too much noise
could not evaluate
at this level.*

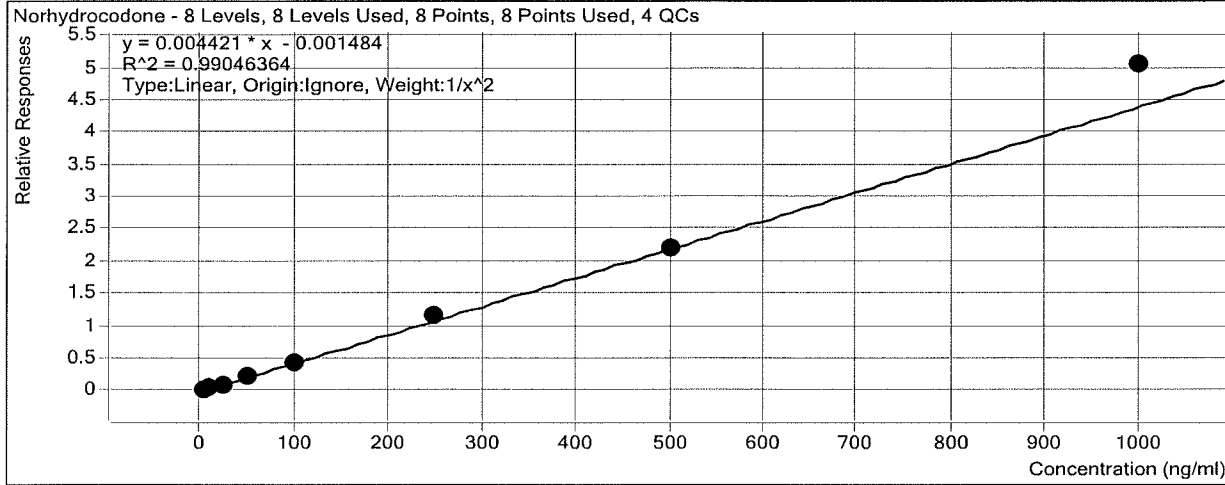
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Norhydrocodone*
Internal Standard *Norhydrocodone-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	104.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	97.9
a QC 10	2	<input checked="" type="checkbox"/>	10	9.3	92.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	21.4	85.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.8	93.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.0	99.0
a qc 100	5	<input checked="" type="checkbox"/>	100	95.3	95.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	264.0	105.6
a QC 250	6	<input checked="" type="checkbox"/>	250	245.4	98.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	498.7	99.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1141.7	114.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1108.2	110.8

ISP Forensics Calibration Curve Report

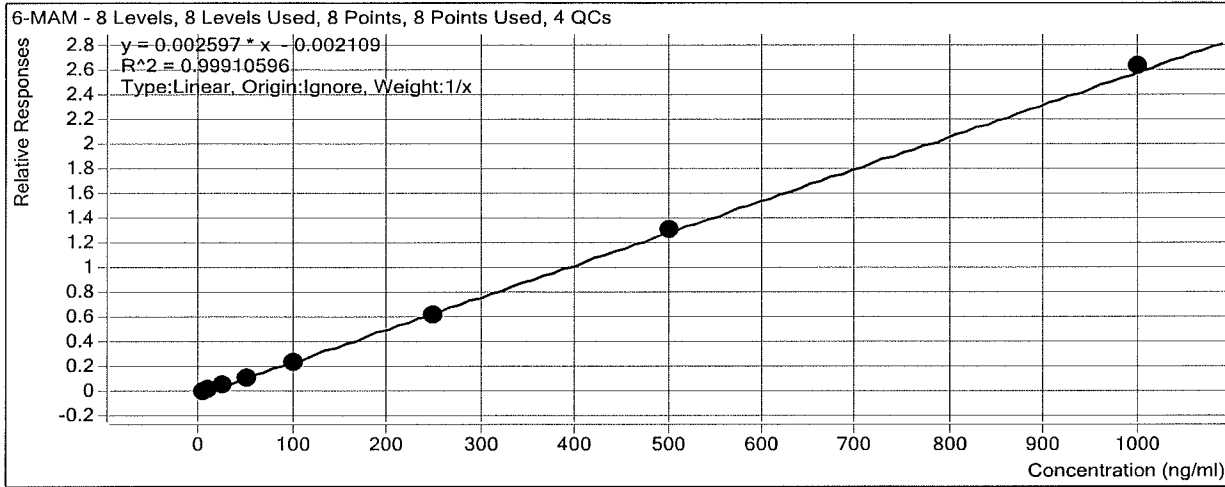
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound 6-MAM

Internal Standard 6-MAM-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	106.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.2	102.2
a QC 10	2	<input checked="" type="checkbox"/>	10	9.9	98.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.4	105.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.2	94.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	94.4	94.4
a qc 100	5	<input checked="" type="checkbox"/>	100	94.3	94.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	236.5	94.6
a QC 250	6	<input checked="" type="checkbox"/>	250	242.9	97.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	507.6	101.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1012.5	101.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1007.6	100.8

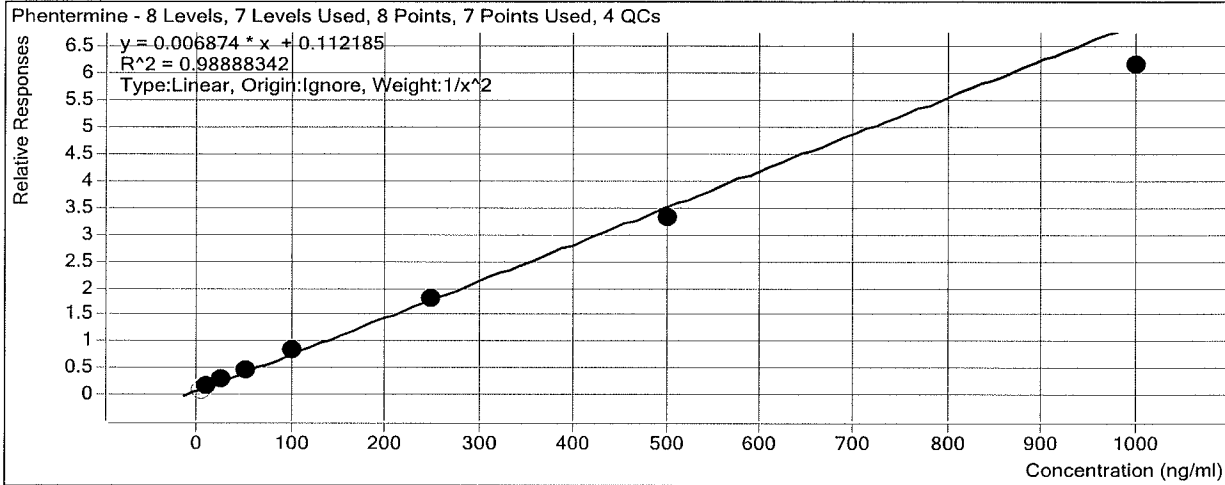
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Phentermine*
Internal Standard *Phentermine-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	0.0	0.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	93.3
a QC 10	2	<input checked="" type="checkbox"/>	10	4.9	48.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	28.3	113.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.3	104.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	108.8	108.8
a qc 100	5	<input checked="" type="checkbox"/>	100	91.6	91.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.6	98.2
a QC 250	6	<input checked="" type="checkbox"/>	250	220.7	88.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	469.8	94.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	880.4	88.0
a qc 1000	8	<input checked="" type="checkbox"/>	1000	925.7	92.6

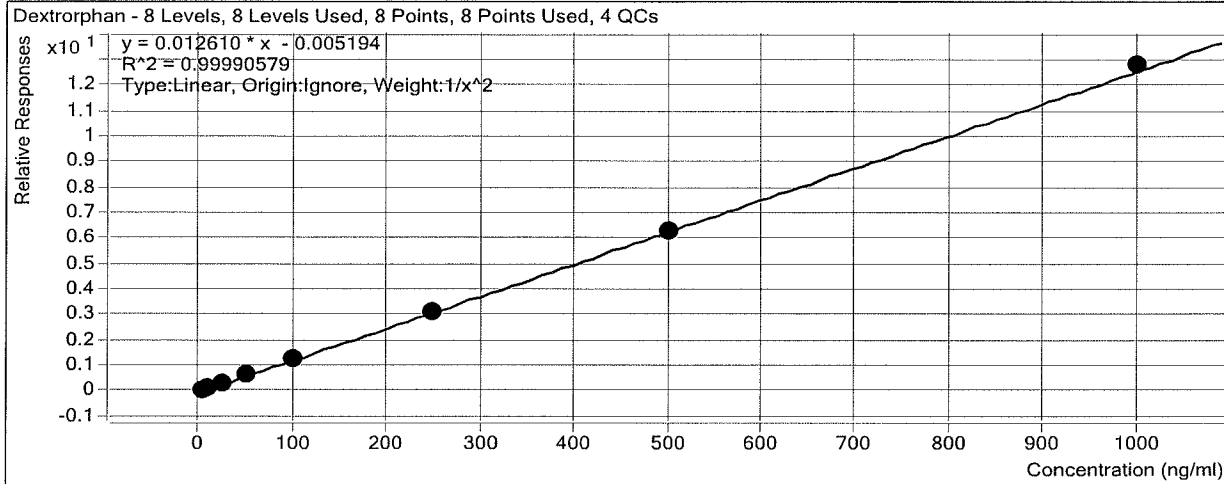
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Dextrorphan*
Internal Standard *Dextrorphan-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.8
a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	101.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.0	99.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.2	100.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.5	99.5
a qc 100	5	<input checked="" type="checkbox"/>	100	103.2	103.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.9	99.2
a QC 250	6	<input checked="" type="checkbox"/>	250	251.3	100.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	500.8	100.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1013.8	101.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	998.7	99.9

ISP Forensics Calibration Curve Report

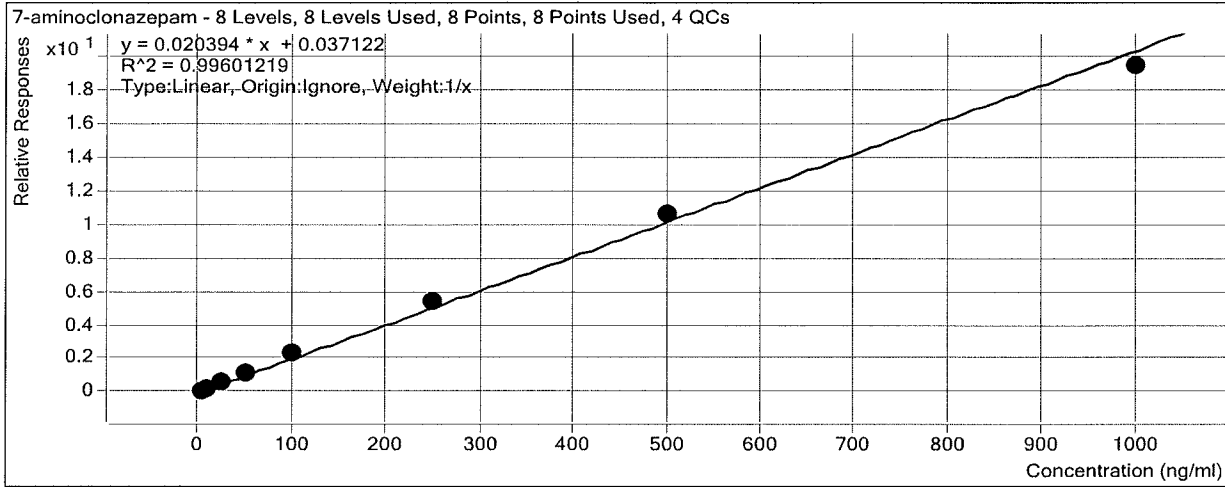
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound 7-aminoclonazepam

Internal Standard 7-Aminoclonazepam-D4



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	3.8	75.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.9	88.9
a QC 10	2	<input checked="" type="checkbox"/>	10	9.4	93.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	27.0	107.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	55.1	110.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	113.7	113.7
a qc 100	5	<input checked="" type="checkbox"/>	100	111.7	111.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	263.5	105.4
a QC 250	6	<input checked="" type="checkbox"/>	250	265.5	106.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	519.4	103.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	948.7	94.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	967.1	96.7

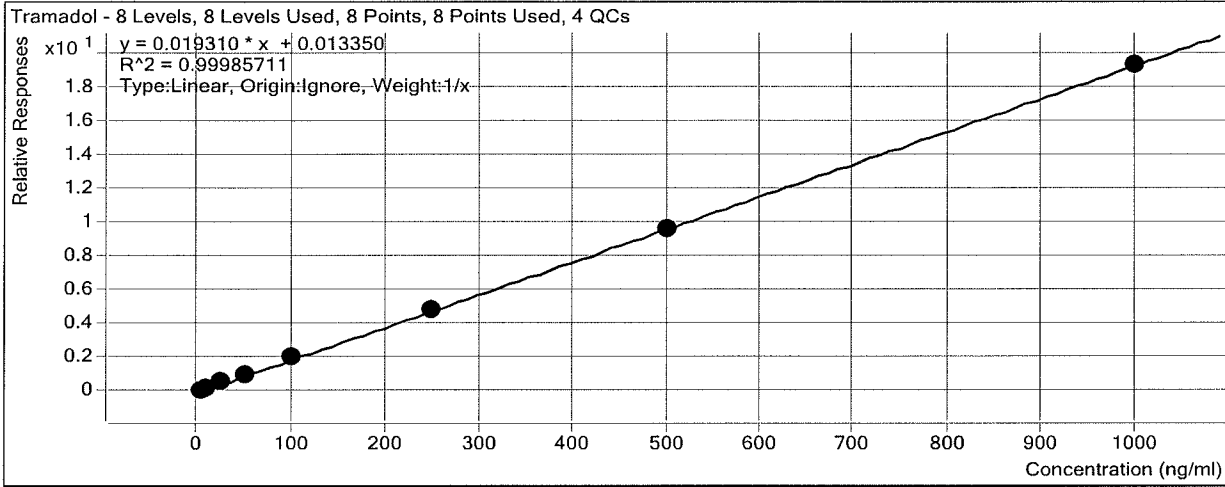
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Tramadol*
Internal Standard *Tramadol-13C-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	93.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	97.1
a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	102.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.9	103.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.9	103.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.1	103.1
a qc 100	5	<input checked="" type="checkbox"/>	100	104.7	104.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.3	99.7
a QC 250	6	<input checked="" type="checkbox"/>	250	251.5	100.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	499.5	99.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	995.9	99.6
a qc 1000	8	<input checked="" type="checkbox"/>	1000	995.9	99.6

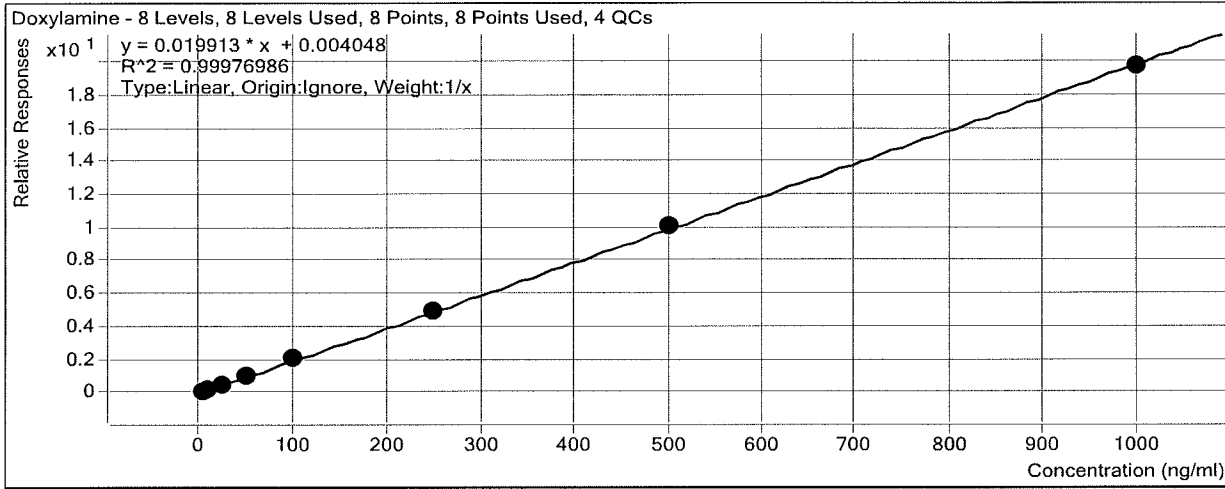
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Doxylamine
Internal Standard Doxylamine-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.8	96.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	96.5
a QC 10	2	<input checked="" type="checkbox"/>	10	10.3	103.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.0	102.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.8	102.8
a qc 100	5	<input checked="" type="checkbox"/>	100	107.1	107.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.0	100.0
a QC 250	6	<input checked="" type="checkbox"/>	250	261.0	104.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	508.4	101.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	988.0	98.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	989.5	98.9

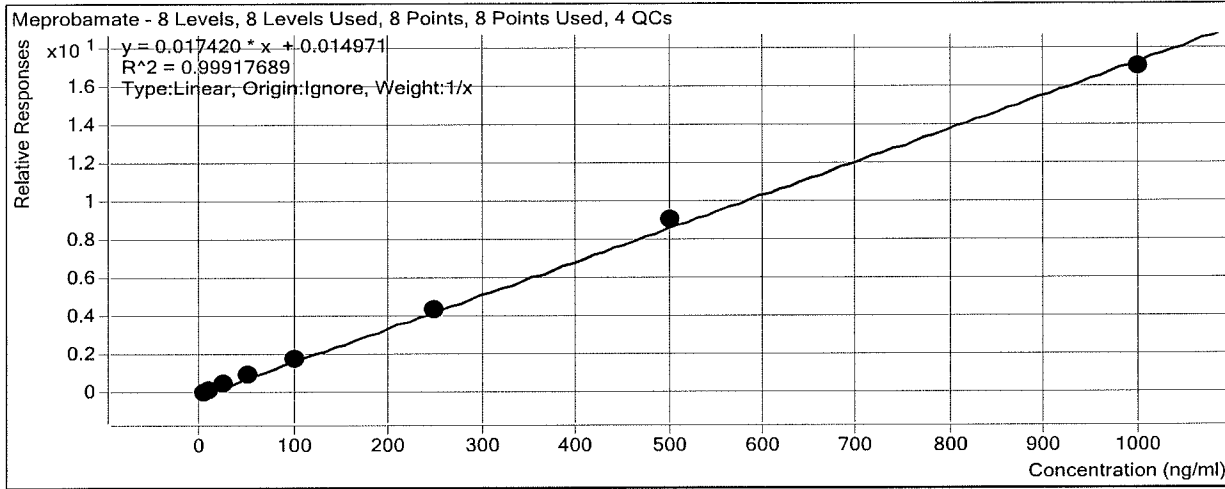
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Meprobamate
Internal Standard Meprobamate-D7



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	93.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	94.6
a QC 10	2	<input checked="" type="checkbox"/>	10	10.5	104.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	103.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.1	106.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.8	99.8
a qc 100	5	<input checked="" type="checkbox"/>	100	116.4	116.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.1	100.0
a QC 250	6	<input checked="" type="checkbox"/>	250	271.0	108.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	518.8	103.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	978.1	97.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	975.5	97.5

ISP Forensics Calibration Curve Report

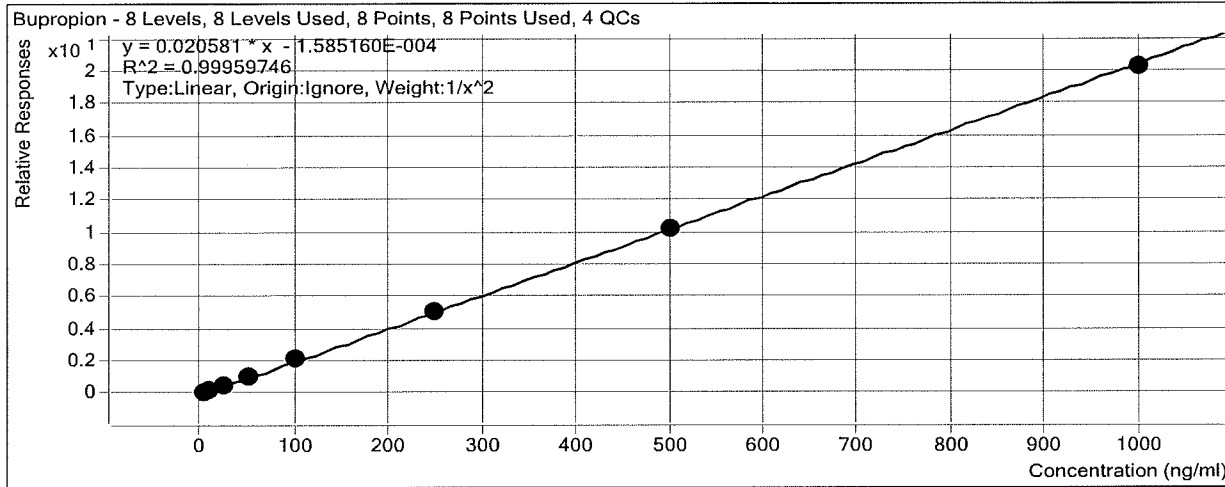
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Bupropion*

Internal Standard *Bupropion-D9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	101.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	97.3
a QC 10	2	<input checked="" type="checkbox"/>	10	9.8	98.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.1	100.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.5	103.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a qc 100	5	<input checked="" type="checkbox"/>	100	103.9	103.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	248.4	99.4
a QC 250	6	<input checked="" type="checkbox"/>	250	238.9	95.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	499.9	100.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	983.6	98.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	938.7	93.9

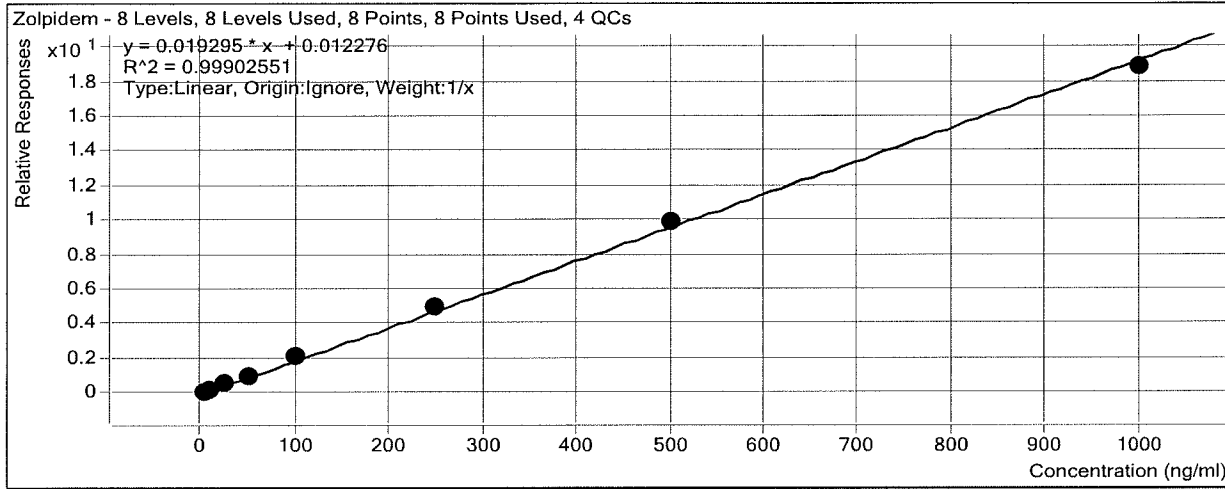
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Zolpidem
Internal Standard Zolpidem-D6



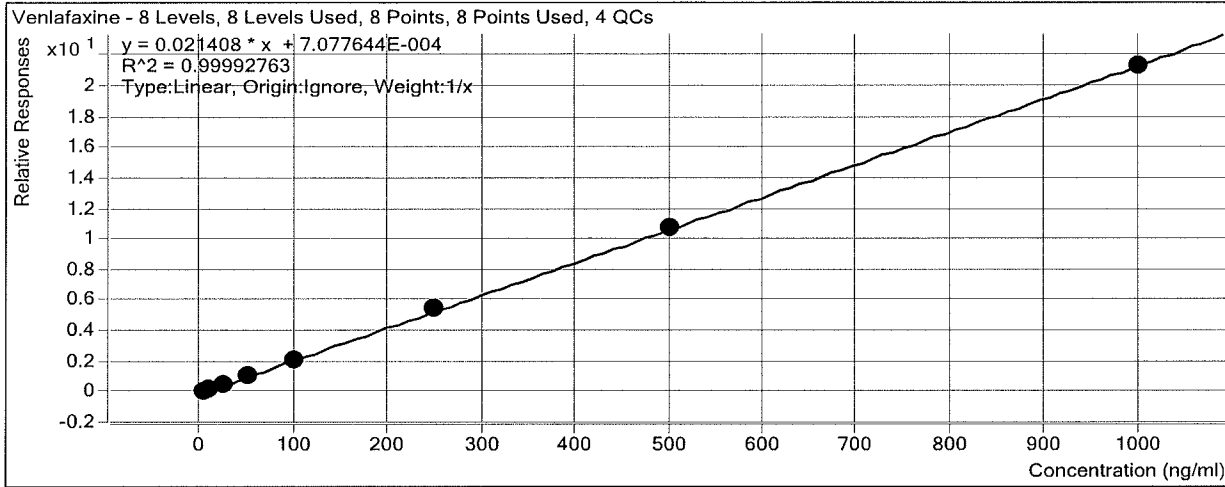
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.3	86.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.6
a QC 10	2	<input checked="" type="checkbox"/>	10	9.9	98.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.3	102.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	106.5	106.5
a qc 100	5	<input checked="" type="checkbox"/>	100	105.3	105.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	255.7	102.3
a QC 250	6	<input checked="" type="checkbox"/>	250	255.9	102.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	513.0	102.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	973.6	97.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	954.8	95.5

ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM **Analyst Name** ISP TOX

Target Compound *Venlafaxine*
Internal Standard *Venlafaxine-D6*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	97.9
a QC 10	2	<input checked="" type="checkbox"/>	10	10.0	100.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.9	99.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.0	102.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.8	99.8
a qc 100	5	<input checked="" type="checkbox"/>	100	101.8	101.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.5	101.0
a QC 250	6	<input checked="" type="checkbox"/>	250	240.6	96.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	504.0	100.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	993.1	99.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	979.1	97.9

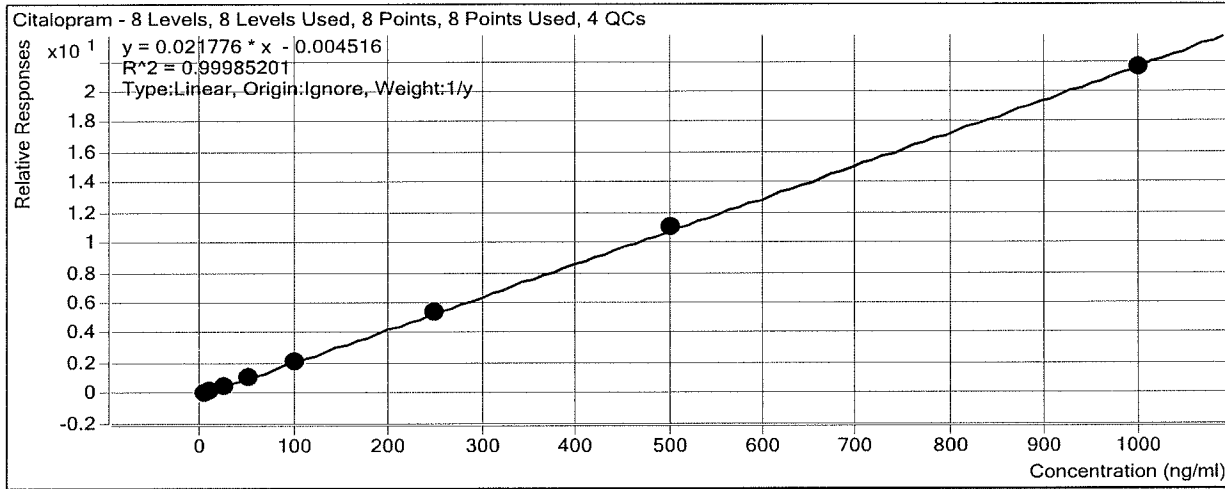
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Citalopram
Internal Standard Citalopram-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	95.4
a QC 10	2	<input checked="" type="checkbox"/>	10	10.4	103.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.6	102.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.9	101.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.7	99.7
a qc 100	5	<input checked="" type="checkbox"/>	100	103.7	103.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.7	99.9
a QC 250	6	<input checked="" type="checkbox"/>	250	237.0	94.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	508.2	101.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	991.5	99.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	984.6	98.5

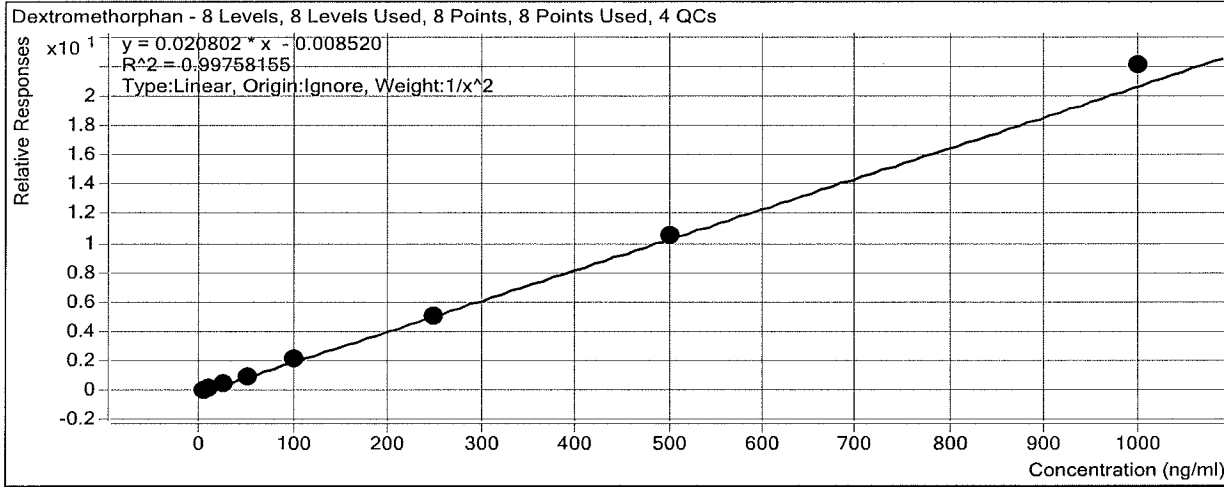
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Dextromethorphan*
Internal Standard *Dextromethorphan-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	94.4
a QC 10	2	<input checked="" type="checkbox"/>	10	11.0	110.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.9	95.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.7	99.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.6	103.6
a qc 100	5	<input checked="" type="checkbox"/>	100	101.5	101.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	241.0	96.4
a QC 250	6	<input checked="" type="checkbox"/>	250	258.7	103.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	505.3	101.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1060.3	106.0
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1022.9	102.3

ISP Forensics Calibration Curve Report

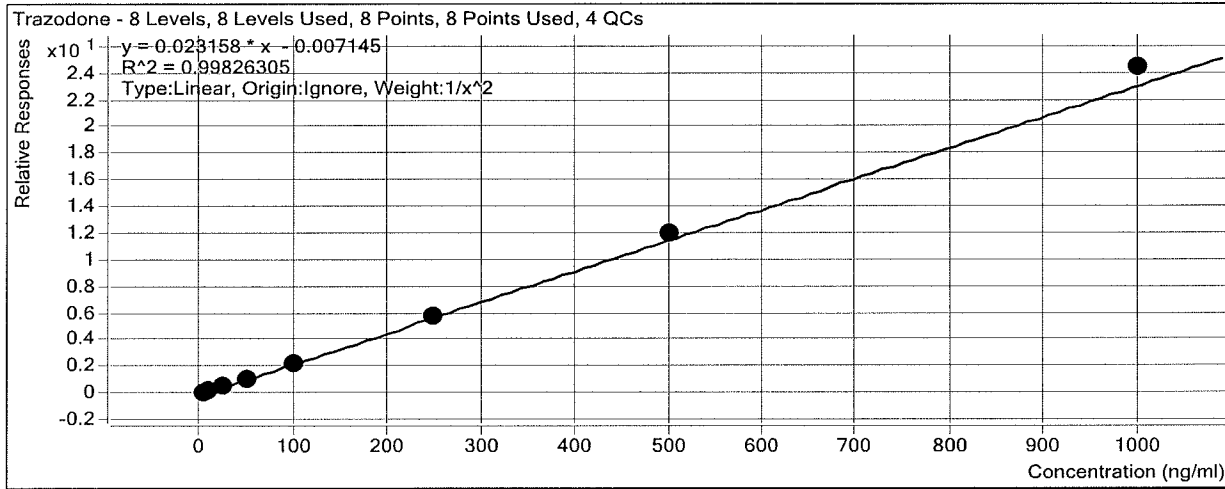
Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Trazodone

Internal Standard Trazodone-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	96.0
a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	102.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.6	98.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.7	95.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.4	98.4
a qc 100	5	<input checked="" type="checkbox"/>	100	99.4	99.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.6	100.2
a QC 250	6	<input checked="" type="checkbox"/>	250	241.1	96.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	517.7	103.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1053.1	105.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1001.7	100.2

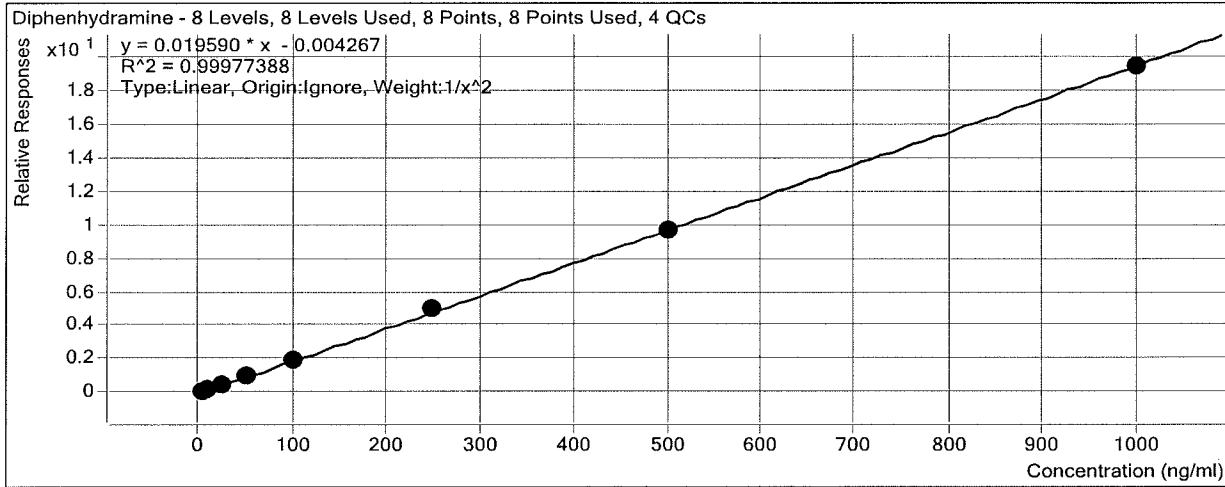
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound *Diphenhydramine*
Internal Standard *Diphenhydramine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.3
a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	102.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.5	98.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.1	102.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.6	100.6
a qc 100	5	<input checked="" type="checkbox"/>	100	104.2	104.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.3	100.9
a QC 250	6	<input checked="" type="checkbox"/>	250	245.2	98.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	495.6	99.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	991.3	99.1
a qc 1000	8	<input checked="" type="checkbox"/>	1000	966.5	96.6

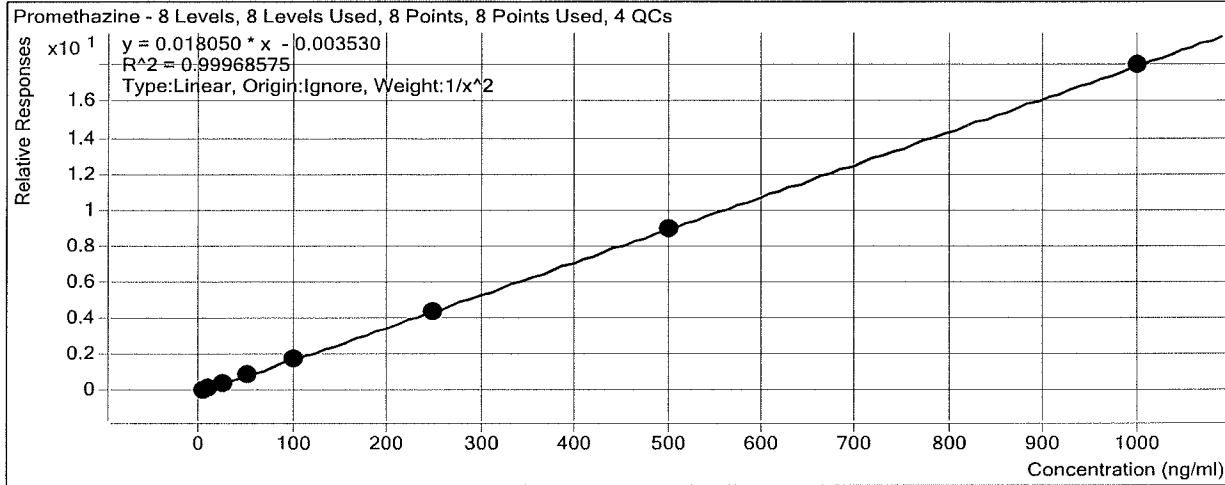
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Promethazine
Internal Standard Promethazine-D3



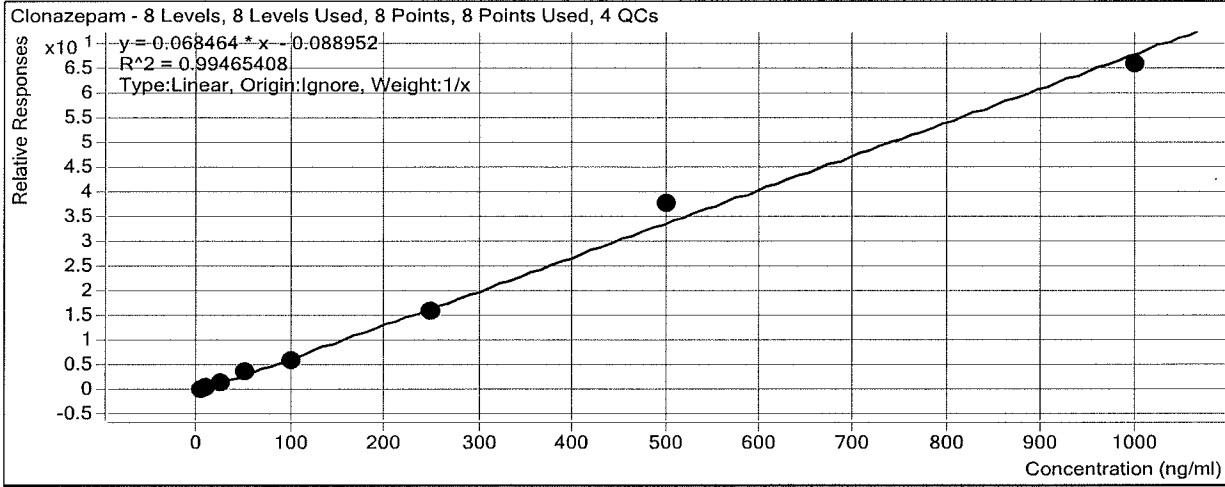
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.3
a QC 10	2	<input checked="" type="checkbox"/>	10	10.8	108.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.7	101.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.8	99.8
a qc 100	5	<input checked="" type="checkbox"/>	100	94.7	94.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.3	98.1
a QC 250	6	<input checked="" type="checkbox"/>	250	270.3	108.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	495.3	99.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	996.6	99.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1162.0	116.2

ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4



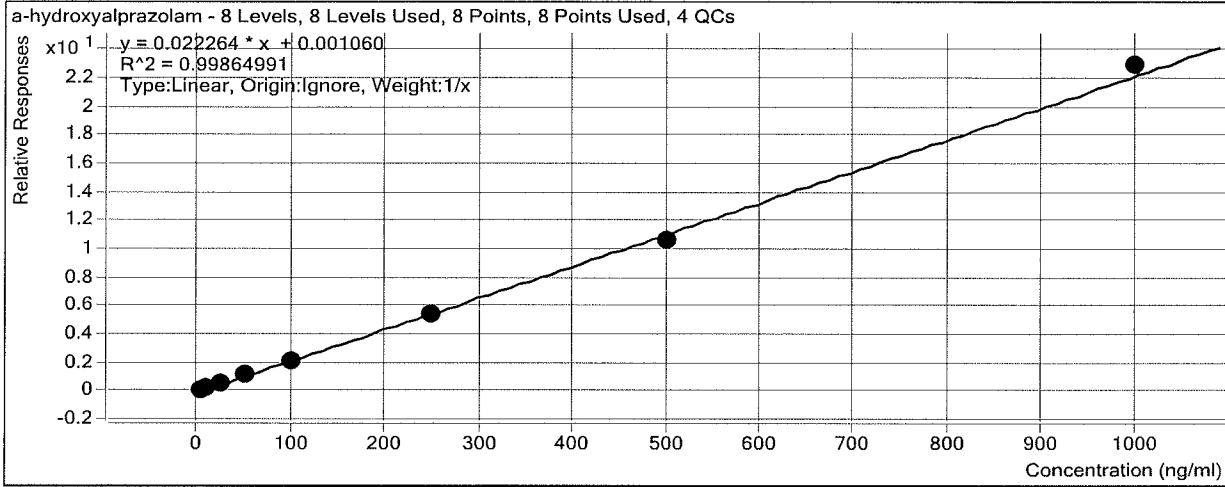
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.6	111.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	92.9
a QC 10	2	<input checked="" type="checkbox"/>	10	10.3	103.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.2	88.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	56.3	112.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	91.8	91.8
a qc 100	5	<input checked="" type="checkbox"/>	100	105.9	105.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	238.0	95.2
a QC 250	6	<input checked="" type="checkbox"/>	250	254.8	101.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	553.4	110.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	963.4	96.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	971.4	97.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM **Analyst Name** ISP TOX

Target Compound *a-hydroxyalprazolam*
Internal Standard *a-hydroxyalprazolam-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	105.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	93.5
a QC 10	2	<input checked="" type="checkbox"/>	10	10.3	103.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.4	106.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	96.2	96.2
a qc 100	5	<input checked="" type="checkbox"/>	100	97.0	97.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	246.8	98.7
a QC 250	6	<input checked="" type="checkbox"/>	250	145.3	58.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	476.0	95.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1027.5	102.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	902.6	90.3

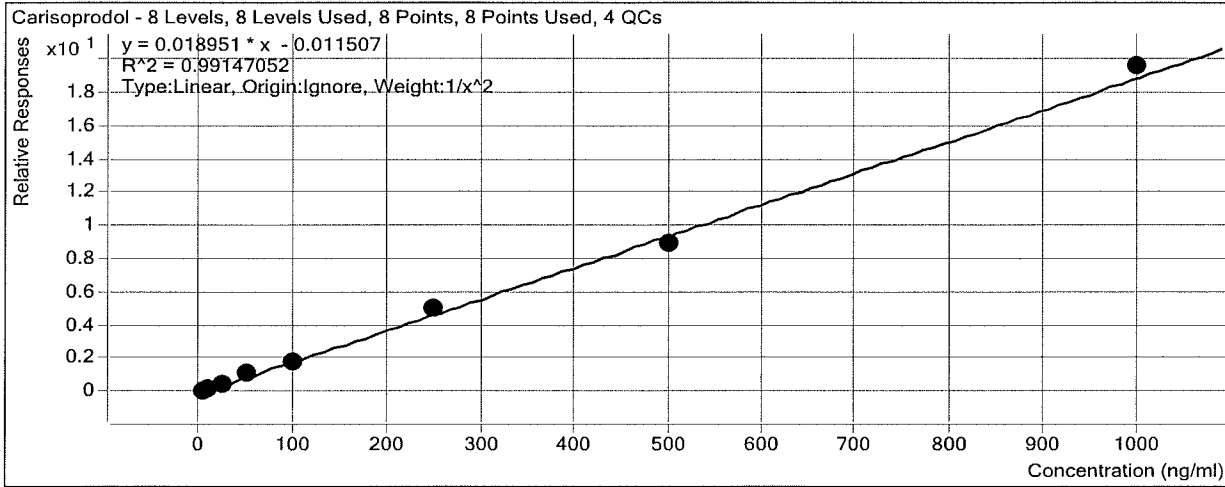
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Carisoprodol
Internal Standard Carisoprodol-D7



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	104.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	92.9
a QC 10	2	<input checked="" type="checkbox"/>	10	11.7	116.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.9	91.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	56.9	113.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	92.9	92.9
a qc 100	5	<input checked="" type="checkbox"/>	100	99.5	99.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	265.9	106.4
a QC 250	6	<input checked="" type="checkbox"/>	250	252.2	100.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	475.4	95.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1032.0	103.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	992.9	99.3

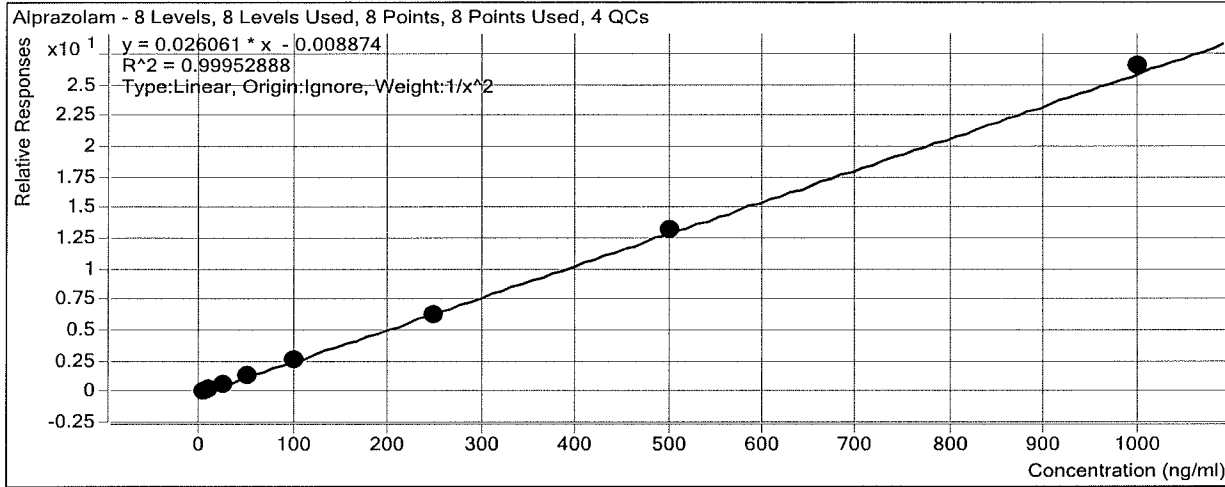
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Alprazolam
Internal Standard Alprazolam-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	97.2
a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	101.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	99.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.5	101.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.7	100.7
a qc 100	5	<input checked="" type="checkbox"/>	100	97.4	97.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	243.4	97.4
a QC 250	6	<input checked="" type="checkbox"/>	250	236.4	94.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	506.4	101.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1018.5	101.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	948.9	94.9

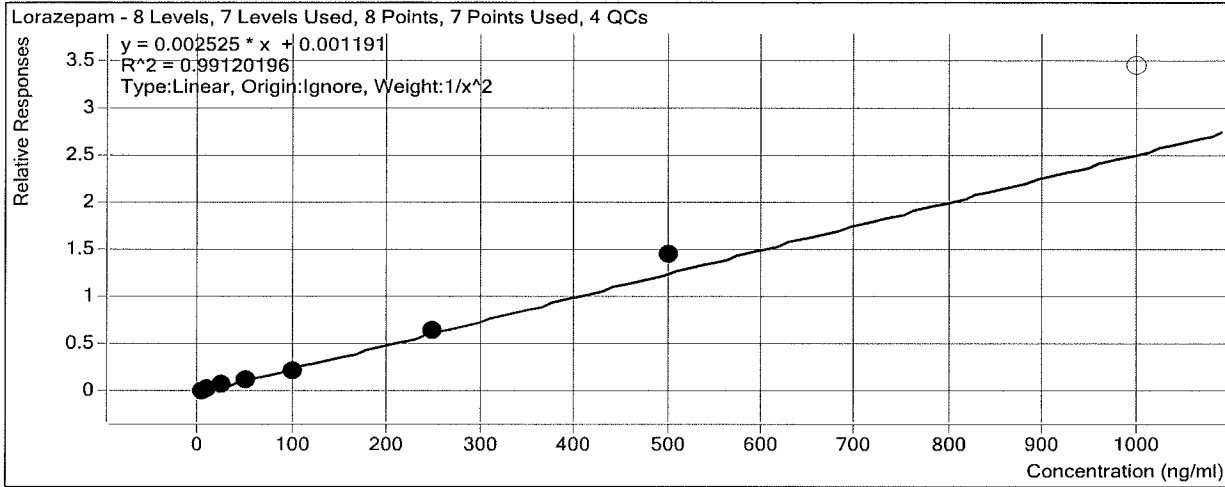
ISP Forensics Calibration Curve Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin

Last Calib Update 10/25/2017 10:51 AM

Analyst Name ISP TOX

Target Compound Lorazepam
Internal Standard Alprazolam-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.6
a QC 10	2	<input checked="" type="checkbox"/>	10	10.7	106.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.3	101.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.0	94.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	88.8	88.8
a qc 100	5	<input checked="" type="checkbox"/>	100	95.1	95.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	253.0	101.2
a QC 250	6	<input checked="" type="checkbox"/>	250	225.8	90.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	573.0	114.6
a cal 8-1000ng	8	<input type="checkbox"/>	1000	1360.5	136.0
a qc 1000	8	<input type="checkbox"/>	1000	787.7	78.8

ISP FORENSICS - Cd'A Instrument # 62340

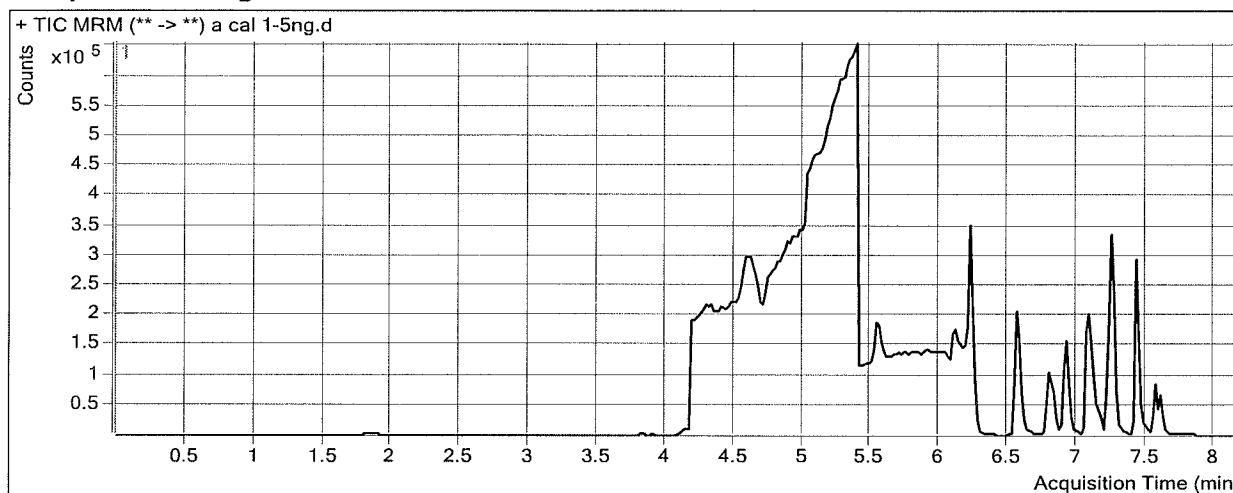
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin
Analysis Time 10/25/2017 10:51 AM **Analyst Name** anord
Report Time 10/26/2017 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 10/25/2017 10:51 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 16:57 **Data File** a cal 1-5ng.d
Sample Type Calibration **Sample Name** a cal 1-5ng
Dilution 1 **Acq Method** Quant Panel 1a 10-17.m
Position P1-A1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.268	869	1539	0.5646	4.9333
Hydromorphone	Hydromorphone-D6	1.889	3307	26526	0.1247	4.7951
Codeine	Codeine-D6	3.953	1816	14439	0.1258	5.3933
Amphetamine	Amphetamine-D11	4.303	33375	68157	0.4897	4.7224
Oxycodone	Oxycodone-D6	4.349	8508	76083	0.1118	5.0785
Hydrocodone	Hydrocodone-D6	4.674	6371	67379	0.0945	4.1638
Norhydrocodone	Norhydrocodone-D3	4.698	536	24808	0.0216	5.2230
6-MAM	6-MAM-D6	4.888	264	22627	0.0117	5.3100
Phentermine	Phentermine-D5	5.604	23431	216335	0.1083	0.0000
Dextrophan	Dextrophan-D3	6.103	6407	109995	0.0582	5.0313
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	6120	53801	0.1138	3.7579
Tramadol	Tramadol-13C-D3	6.242	61702	596937	0.1034	4.6614
Doxylamine	Doxylamine-D5	6.579	57342	572684	0.1001	4.8249
Meprobamate	Meprobamate-D7	6.932	3405	35176	0.0968	4.6969
Bupropion	Bupropion-D9	6.829	28347	273179	0.1038	5.0497
Zolpidem	Zolpidem-D6	6.940	36086	375367	0.0961	4.3461
Venlafaxine	Venlafaxine-D6	7.085	55932	520645	0.1074	4.9851
Citalopram	Citalopram-D6	7.217	32135	307026	0.1047	5.0140
Dextromethorphan	Dextromethorphan-D3	7.248	8421	84864	0.0992	5.1796
Trazodone	Trazodone-D6	7.155	26218	234327	0.1119	5.1398
Diphenhydramine	Diphenhydramine-D3	7.251	53479	568261	0.0941	5.0219
Promethazine	Promethazine-D3	7.426	49983	578486	0.0864	4.9824
Clonazepam	Clonazepam-D4	7.482	3156	10757	0.2933	5.5838

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

a cal 1

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	1238	10479	0.1182	5.2594
Carisoprodol	Carisoprodol-D7	7.572	12773	146573	0.0871	5.2056
Alprazolam	Alprazolam-D5	7.605	12626	102343	0.1234	5.0746
Lorazepam	Alprazolam-D5	7.582	1433	102343	0.0140	5.0713



ISP FORENSICS - Cd'A Instrument # 62340

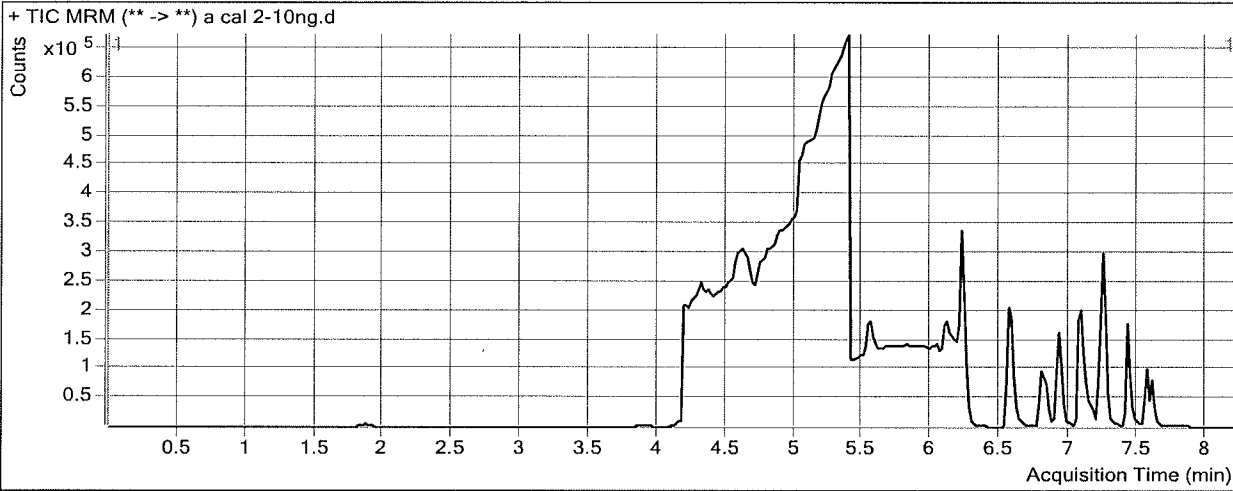
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-24 18:39	Data File	a cal 2-10ng.d
Sample Type	Calibration	Sample Name	a cal 2-10ng
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-B1	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	1622	1426	1.1374	10.3053
Hydromorphone	Hydromorphone-D6	1.889	7985	25906	0.3082	10.8296
Codeine	Codeine-D6	3.953	2987	13117	0.2278	9.6399
Amphetamine	Amphetamine-D11	4.303	49414	53451	0.9245	10.6135
Oxycodone	Oxycodone-D6	4.369	16866	74772	0.2256	9.6777
Hydrocodone	Hydrocodone-D6	4.674	12067	64038	0.1884	9.4942
Norhydrocodone	Norhydrocodone-D3	4.698	956	22875	0.0418	9.7886
6-MAM	6-MAM-D6	4.908	503	20587	0.0244	10.2230
Phentermine	Phentermine-D5	5.604	33213	188374	0.1763	9.3291
Dextrophan	Dextrophan-D3	6.123	12582	105418	0.1194	9.8771
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	11101	50805	0.2185	8.8939
Tramadol	Tramadol-13C-D3	6.242	114356	569460	0.2008	9.7079
Doxylamine	Doxylamine-D5	6.579	106730	544050	0.1962	9.6483
Meprobamate	Meprobamate-D7	6.932	6020	33491	0.1798	9.4600
Bupropion	Bupropion-D9	6.829	46691	233395	0.2001	9.7281
Zolpidem	Zolpidem-D6	6.940	72411	357366	0.2026	9.8649
Venlafaxine	Venlafaxine-D6	7.085	102256	486344	0.2103	9.7884
Citalopram	Citalopram-D6	7.217	52980	260744	0.2032	9.5384
Dextromethorphan	Dextromethorphan-D3	7.248	11378	60543	0.1879	9.4435
Trazodone	Trazodone-D6	7.155	34238	159080	0.2152	9.6021
Diphenhydramine	Diphenhydramine-D3	7.251	85220	447789	0.1903	9.9327
Promethazine	Promethazine-D3	7.426	55429	315410	0.1757	9.9316
Clonazepam	Clonazepam-D4	7.482	5317	9720	0.5471	9.2899

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

a cal 2

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	2331	11135	0.2093	9.3531
Carisoprodol	Carisoprodol-D7	7.572	24703	150192	0.1645	9.2865
Alprazolam	Alprazolam-D5	7.605	24714	101118	0.2444	9.7190
Lorazepam	Alprazolam-D5	7.582	2638	101118	0.0261	9.8597

A

ISP FORENSICS - Cd'A Instrument # 62340

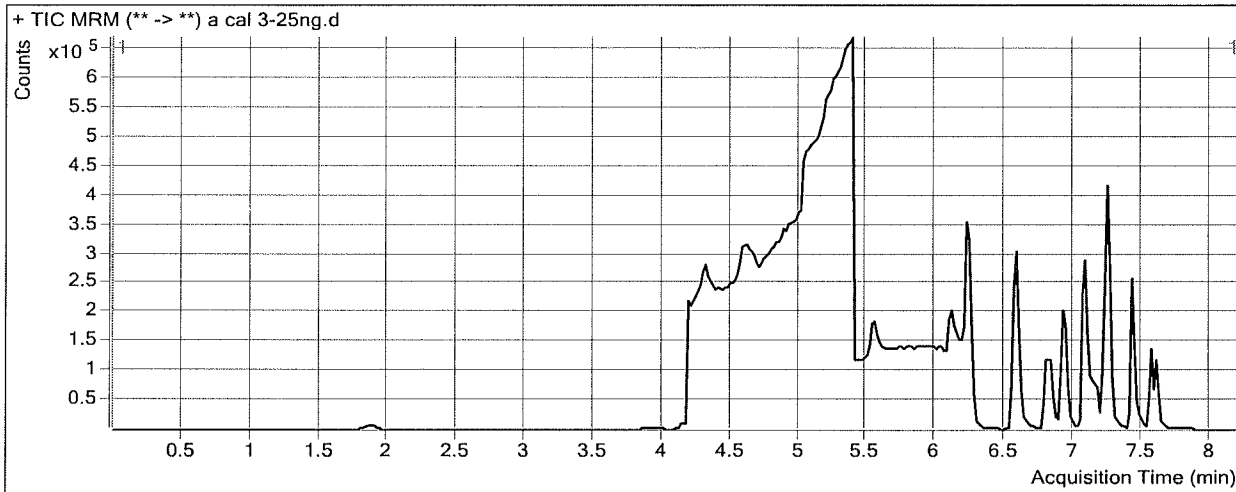
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin
Analysis Time 10/25/2017 10:51 AM **Analyst Name** anord
Report Time 10/26/2017 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 10/25/2017 10:51 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 19:05 **Data File** a cal 3-25ng.d
Sample Type Calibration **Sample Name** a cal 3-25ng
Dilution 1 **Acq Method** Quant Panel 1a 10-17.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



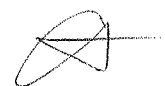
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.268	4184	1598	2.6188	24.1989
Hydromorphone	Hydromorphone-D6	1.889	19453	25887	0.7514	25.3984
Codeine	Codeine-D6	3.973	8072	13675	0.5903	24.7346
Amphetamine	Amphetamine-D11	4.303	122265	57848	2.1135	26.7248
Oxycodone	Oxycodone-D6	4.349	43703	75122	0.5818	24.0794
Hydrocodone	Hydrocodone-D6	4.674	31293	65703	0.4763	25.8384
Norhydrocodone	Norhydrocodone-D3	4.698	2257	24270	0.0930	21.3758
6-MAM	6-MAM-D6	4.908	1405	21163	0.0664	26.3762
Phentermine	Phentermine-D5	5.604	60277	196717	0.3064	28.2557
Dextrophan	Dextrophan-D3	6.123	33924	109584	0.3096	24.9626
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	30920	52685	0.5869	26.9569
Tramadol	Tramadol-13C-D3	6.242	301453	587446	0.5132	25.8828
Doxylamine	Doxylamine-D5	6.579	295652	578769	0.5108	25.4495
Meprobamate	Meprobamate-D7	6.932	16133	34509	0.4675	25.9779
Bupropion	Bupropion-D9	6.829	126118	244631	0.5155	25.0575
Zolpidem	Zolpidem-D6	6.940	186471	365526	0.5101	25.8024
Venlafaxine	Venlafaxine-D6	7.085	268408	502908	0.5337	24.8977
Citalopram	Citalopram-D6	7.217	149522	270019	0.5537	25.6369
Dextromethorphan	Dextromethorphan-D3	7.248	33186	67963	0.4883	23.8834
Trazodone	Trazodone-D6	7.155	100855	179304	0.5625	24.5968
Diphenhydramine	Diphenhydramine-D3	7.251	229393	481358	0.4766	24.5443
Promethazine	Promethazine-D3	7.426	164985	357278	0.4618	25.7789
Clonazepam	Clonazepam-D4	7.482	13364	9339	1.4309	22.1997

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

a cal 3

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	5507	9723	0.5664	25.3910
Carisoprodol	Carisoprodol-D7	7.572	61762	146077	0.4228	22.9182
Alprazolam	Alprazolam-D5	7.605	62719	98599	0.6361	24.7492
Lorazepam	Alprazolam-D5	7.582	6423	98599	0.0651	25.3211



ISP FORENSICS - Cd'A Instrument # 62340

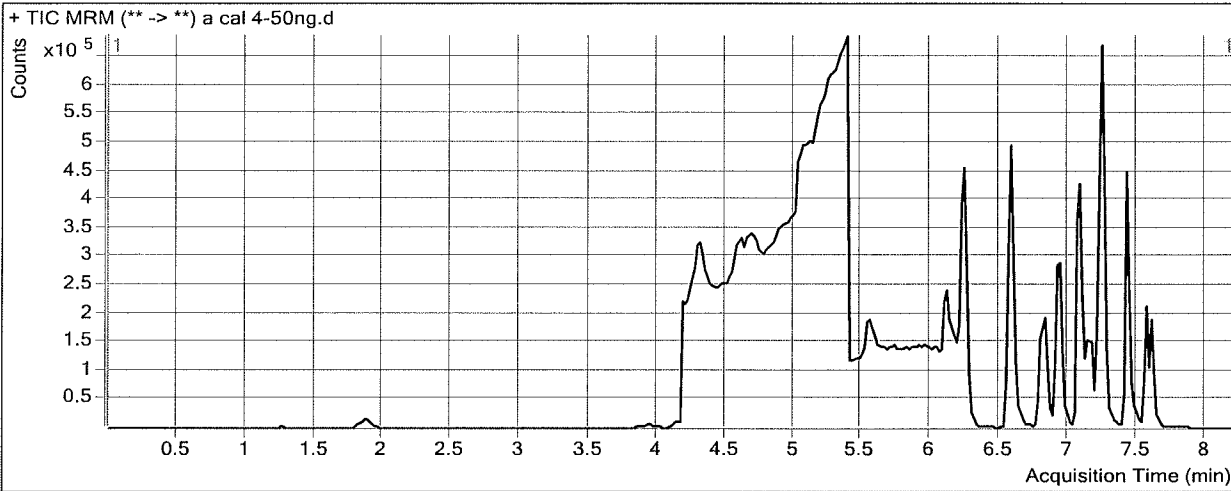
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

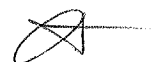
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Sample Type	Calibration	Sample Name	a cal 4-50ng
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-D1	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	8534	1504	5.6726	52.8412
Hydromorphone	Hydromorphone-D6	1.909	40453	27501	1.4710	49.0504
Codeine	Codeine-D6	3.953	16411	13743	1.1942	49.8796
Amphetamine	Amphetamine-D11	4.303	260698	62796	4.1515	54.3379
Oxycodone	Oxycodone-D6	4.349	95003	72535	1.3098	53.5134
Hydrocodone	Hydrocodone-D6	4.674	67275	70921	0.9486	52.6556
Methamphetamine	Methamphetamine-D11	4.721	83853	211983	0.3956	52.5437
Norhydrocodone	Norhydrocodone-D3	4.698	5097	24793	0.2056	46.8395
6-MAM	6-MAM-D6	4.908	2807	23313	0.1204	47.1795
Phentermine	Phentermine-D5	5.604	99815	211525	0.4719	52.3276
Dextrophan	Dextrophan-D3	6.123	75578	120281	0.6283	50.2420
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	63613	54760	1.1617	55.1404
Tramadol	Tramadol-13C-D3	6.242	618951	609224	1.0160	51.9209
Doxylamine	Doxylamine-D5	6.579	620674	608678	1.0197	51.0043
Meprobamate	Meprobamate-D7	6.932	32941	35077	0.9391	53.0520
Bupropion	Bupropion-D9	6.829	271650	256292	1.0599	51.5087
Zolpidem	Zolpidem-D6	6.940	395845	395359	1.0012	51.2530
Venlafaxine	Venlafaxine-D6	7.085	587831	538306	1.0920	50.9765
Citalopram	Citalopram-D6	7.217	342580	310176	1.1045	50.9277
Dextromethorphan	Dextromethorphan-D3	7.227	79670	77753	1.0247	49.6670
Trazodone	Trazodone-D6	7.155	228376	208303	1.0964	47.6506
Diphenhydramine	Diphenhydramine-D3	7.251	538112	539431	0.9976	51.1398
Promethazine	Promethazine-D3	7.426	409477	449550	0.9109	50.6583



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

a cal 4

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	32377	8602	3.7640	56.2773
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	11464	9628	1.1907	53.4351
Carisoprodol	Carisoprodol-D7	7.572	139000	130270	1.0670	56.9126
Alprazolam	Alprazolam-D5	7.605	130326	99625	1.3082	50.5374
Lorazepam	Alprazolam-D5	7.582	11953	99625	0.1200	47.0348



ISP FORENSICS - Cd'A Instrument # 62340

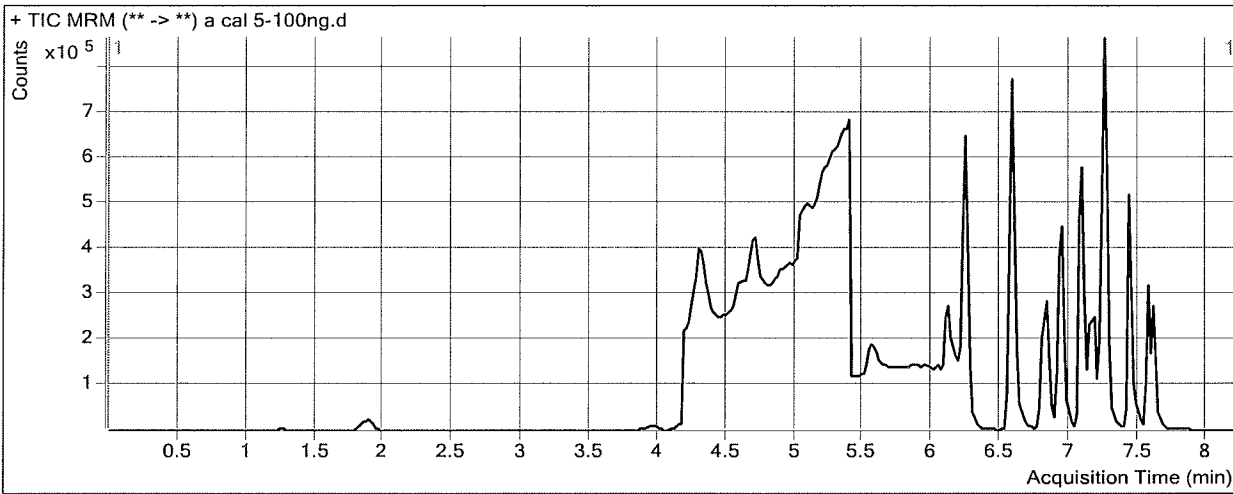
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
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Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-24 19:56	Data File	a cal 5-100ng.d
Sample Type	Calibration	Sample Name	a cal 5-100ng
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-E1	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.268	15657	1570	9.9749	93.1919
Hydromorphone	Hydromorphone-D6	1.889	74134	25304	2.9297	97.0020
Codeine	Codeine-D6	3.953	31469	13415	2.3457	97.8307
Amphetamine	Amphetamine-D11	4.303	482463	59673	8.0851	107.6354
Oxycodone	Oxycodone-D6	4.349	175820	68624	2.5621	104.1457
Hydrocodone	Hydrocodone-D6	4.674	128191	65750	1.9497	109.4947
Methamphetamine	Methamphetamine-D11	4.721	205527	199198	1.0318	88.3133
Norhydrocodone	Norhydrocodone-D3	4.698	9503	21794	0.4360	98.9671
6-MAM	6-MAM-D6	4.908	5139	21156	0.2429	94.3538
Phentermine	Phentermine-D5	5.604	166912	194073	0.8600	108.7968
Dextrophan	Dextrophan-D3	6.123	123785	99024	1.2501	99.5469
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	114931	48803	2.3550	113.6543
Tramadol	Tramadol-13C-D3	6.242	1123303	560352	2.0046	103.1194
Doxylamine	Doxylamine-D5	6.579	1122550	547517	2.0503	102.7564
Meprobamate	Meprobamate-D7	6.932	60618	34557	1.7541	99.8400
Bupropion	Bupropion-D9	6.829	472144	227673	2.0738	100.7712
Zolpidem	Zolpidem-D6	6.940	725996	351227	2.0670	106.4888
Venlafaxine	Venlafaxine-D6	7.085	1000378	468188	2.1367	99.7764
Citalopram	Citalopram-D6	7.217	534806	246940	2.1657	99.6638
Dextromethorphan	Dextromethorphan-D3	7.227	133583	62215	2.1471	103.6257
Trazodone	Trazodone-D6	7.155	392580	172829	2.2715	98.3935
Diphenhydramine	Diphenhydramine-D3	7.251	904181	459772	1.9666	100.6055
Promethazine	Promethazine-D3	7.426	643682	358185	1.7971	99.7551

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

a cal 5

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	51113	8245	6.1993	91.8473
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	21087	9845	2.1418	96.1535
Carisoprodol	Carisoprodol-D7	7.572	243619	139294	1.7490	92.8978
Alprazolam	Alprazolam-D5	7.605	229711	87793	2.6165	100.7415
Lorazepam	Alprazolam-D5	7.582	19797	87793	0.2255	88.8180



ISP FORENSICS - Cd'A Instrument # 62340

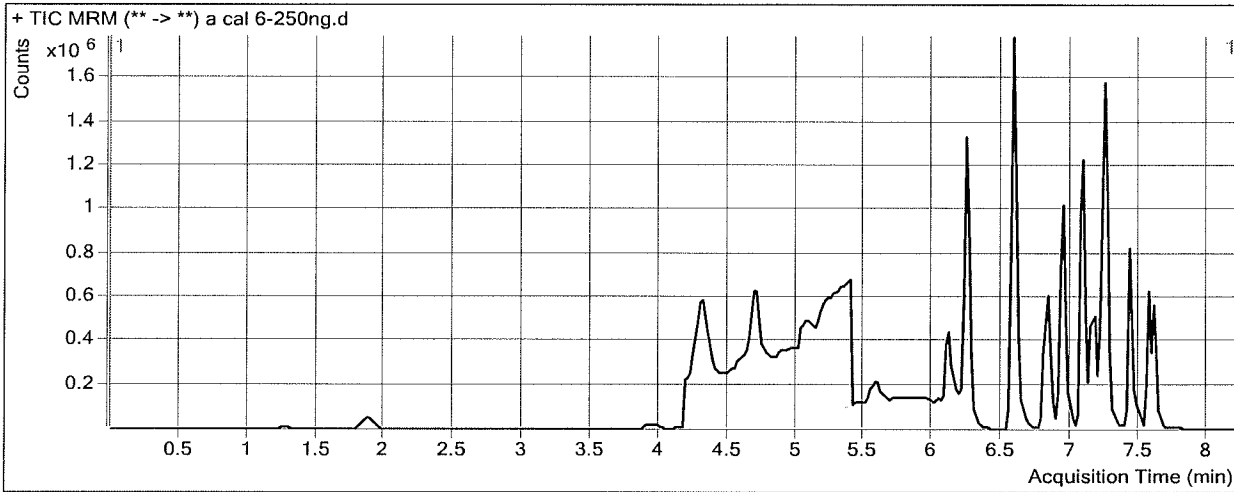
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin
Analysis Time 10/25/2017 10:51 AM **Analyst Name** anord
Report Time 10/26/2017 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 10/25/2017 10:51 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 20:21 **Data File** a cal 6-250ng.d
Sample Type Calibration **Sample Name** a cal 6-250ng
Dilution 1 **Acq Method** Quant Panel 1a 10-17.m
Position P1-F1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.268	40230	1440	27.9306	261.5974
Hydromorphone	Hydromorphone-D6	1.889	192141	25811	7.4442	245.4012
Codeine	Codeine-D6	3.953	80505	13525	5.9524	248.0086
Amphetamine	Amphetamine-D11	4.303	1060634	56395	18.8071	252.9105
Oxycodone	Oxycodone-D6	4.349	465724	73581	6.3294	256.4656
Hydrocodone	Hydrocodone-D6	4.674	306979	66858	4.5915	259.4932
Methamphetamine	Methamphetamine-D11	4.721	713632	180194	3.9604	252.9687
Norhydrocodone	Norhydrocodone-D3	4.698	24015	20604	1.1656	263.9877
6-MAM	6-MAM-D6	4.908	13634	22282	0.6119	236.4514
Phentermine	Phentermine-D5	5.604	339087	188335	1.8004	245.6033
Dextrophan	Dextrophan-D3	6.123	342997	109891	3.1213	247.9405
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	281230	51982	5.4101	263.4587
Tramadol	Tramadol-13C-D3	6.242	2784957	577002	4.8266	249.2557
Doxylamine	Doxylamine-D5	6.579	2881432	578440	4.9814	249.9517
Meprobamate	Meprobamate-D7	6.932	149491	34196	4.3716	250.0988
Bupropion	Bupropion-D9	6.829	1093535	213889	5.1126	248.4264
Zolpidem	Zolpidem-D6	6.940	1807596	365479	4.9458	255.6847
Venlafaxine	Venlafaxine-D6	7.085	2584530	478162	5.4051	252.4513
Citalopram	Citalopram-D6	7.217	1285375	236549	5.4339	249.7453
Dextromethorphan	Dextromethorphan-D3	7.227	273063	54561	5.0047	240.9986
Trazodone	Trazodone-D6	7.155	852854	147128	5.7967	250.6147
Diphenhydramine	Diphenhydramine-D3	7.251	2016491	408314	4.9386	252.3164
Promethazine	Promethazine-D3	7.426	1249490	282378	4.4249	245.3399

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

a cal b

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	139603	8614	16.2056	238.0010
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	50082	9112	5.4965	246.8298
Carisoprodol	Carisoprodol-D7	7.572	558880	111170	5.0272	265.8898
Alprazolam	Alprazolam-D5	7.605	538277	84973	6.3347	243.4158
Lorazepam	Alprazolam-D5	7.582	54394	84973	0.6401	253.0026



ISP FORENSICS - Cd'A Instrument # 62340

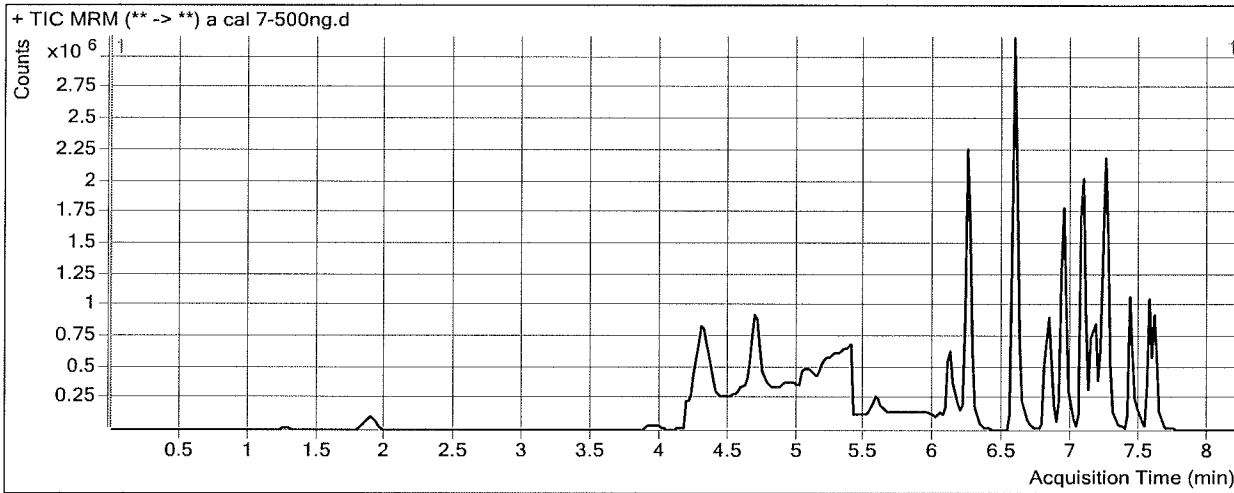
Multi-Drug Confirmatory Analysis Report

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Analysis Time 10/25/2017 10:51 AM **Analyst Name** anord
Report Time 10/26/2017 9:02 AM **Reporter Name** ISP Tox
Last Calib Update 10/25/2017 10:51 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 20:46 **Data File** a cal 7-500ng.d
Sample Type Calibration **Sample Name** a cal 7-500ng
Dilution 1 **Acq Method** Quant Panel 1a 10-17.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	77459	1491	51.9405	486.7863
Hydromorphone	Hydromorphone-D6	1.889	375758	24575	15.2900	503.3072
Codeine	Codeine-D6	3.953	154206	12962	11.8965	495.5176
Amphetamine	Amphetamine-D11	4.303	1780810	52572	33.8735	457.0498
Oxycodone	Oxycodone-D6	4.349	931912	73387	12.6987	513.9860
Hydrocodone	Hydrocodone-D6	4.674	584172	63712	9.1690	519.3962
Methamphetamine	Methamphetamine-D11	4.721	1477035	167944	8.7948	524.7798
Norhydrocodone	Norhydrocodone-D3	4.698	40659	18454	2.2032	498.6962
6-MAM	6-MAM-D6	4.908	27266	20719	1.3160	507.6092
Phentermine	Phentermine-D5	5.604	575209	172151	3.3413	469.7631
Dextroprphan	Dextroprphan-D3	6.123	604273	95760	6.3103	500.8425
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	506128	47611	10.6304	519.4310
Tramadol	Tramadol-13C-D3	6.242	5213288	539710	9.6594	499.5256
Doxylamine	Doxylamine-D5	6.579	5403711	533568	10.1275	508.3792
Meprobamate	Meprobamate-D7	6.932	285553	31546	9.0520	518.7859
Bupropion	Bupropion-D9	6.829	1737874	168920	10.2881	499.9005
Zolpidem	Zolpidem-D6	6.940	3411082	344209	9.9099	512.9510
Venlafaxine	Venlafaxine-D6	7.085	4680209	433737	10.7904	504.0100
Citalopram	Citalopram-D6	7.217	1954864	176714	11.0623	508.2180
Dextromethorphan	Dextromethorphan-D3	7.227	388476	36992	10.5017	505.2515
Trazodone	Trazodone-D6	7.155	1407868	117496	11.9822	517.7116
Diphenhydramine	Diphenhydramine-D3	7.251	3086129	318031	9.7039	495.5688
Promethazine	Promethazine-D3	7.426	1757964	196723	8.9362	495.2742

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

a cal 7

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	246786	6528	37.8017	553.4380
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	94551	8920	10.5995	476.0326
Carisoprodol	Carisoprodol-D7	7.572	1029949	114477	8.9970	475.3690
Alprazolam	Alprazolam-D5	7.605	936440	71000	13.1893	506.4417
Lorazepam	Alprazolam-D5	7.582	102831	71000	1.4483	573.0173

A

ISP FORENSICS - Cd'A Instrument # 62340

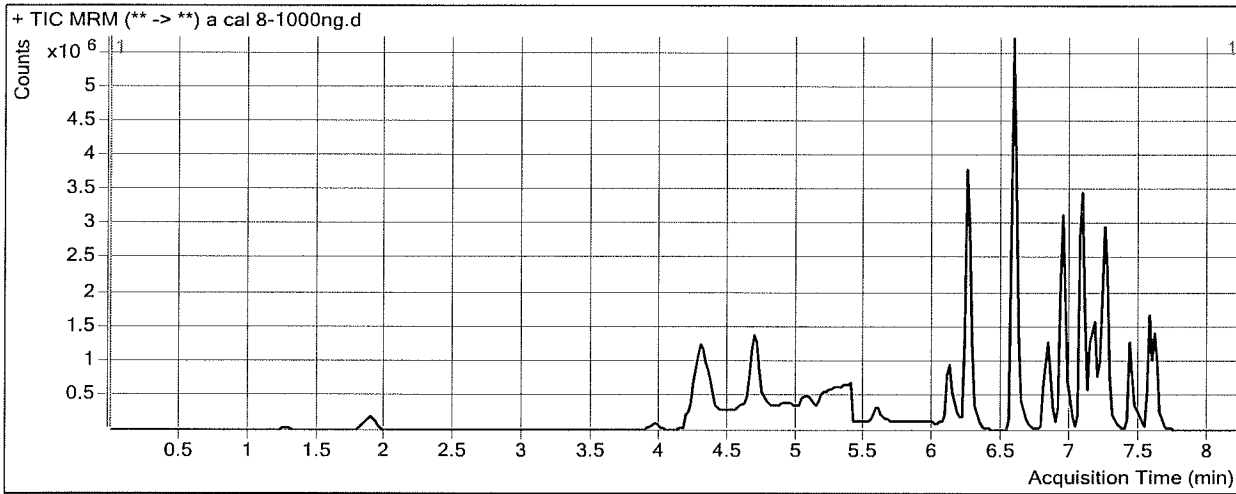
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MyFiles\anord\Documents\blood data\1024 mdq\QuantResults\102417 mdq p1a.batch.bin		
Analysis Time	10/25/2017 10:51 AM	Analyst Name	anord
Report Time	10/26/2017 9:02 AM	Reporter Name	ISP Tox
Last Calib Update	10/25/2017 10:51 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-24 21:12	Data File	a cal 8-1000ng.d
Sample Type	Calibration	Sample Name	a cal 8-1000ng
Dilution	1	Acq Method	Quant Panel 1a 10-17.m
Position	P1-H1	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	146495	1365	107.3155	1006.1457
Hydromorphone	Hydromorphone-D6	1.889	717191	23525	30.4864	1002.8410
Codeine	Codeine-D6	3.953	276672	11419	24.2281	1008.9957
Amphetamine	Amphetamine-D11	4.303	3033039	49026	61.8659	836.3271
Oxycodone	Oxycodone-D6	4.349	1826549	80113	22.7996	922.3844
Hydrocodone	Hydrocodone-D6	4.654	1037273	61306	16.9196	959.4639
Methamphetamine	Methamphetamine-D11	4.701	2685565	154982	17.3282	1004.5576
Norhydrocodone	Norhydrocodone-D3	4.698	72309	14330	5.0459	1141.7021
6-MAM	6-MAM-D6	4.908	53619	20411	2.6270	1012.4968
Phentermine	Phentermine-D5	5.584	947244	153673	6.1640	880.4037
Dextroprphan	Dextroprphan-D3	6.123	1040886	81459	12.7781	1013.7659
7-aminoclonazepam	7-Aminoclonazepam-D4	6.232	863765	44558	19.3851	948.7069
Tramadol	Tramadol-13C-D3	6.242	9577272	497645	19.2452	995.9263
Doxylamine	Doxylamine-D5	6.579	10079766	512235	19.6780	987.9856
Meprobamate	Meprobamate-D7	6.932	497522	29175	17.0529	978.0884
Bupropion	Bupropion-D9	6.829	2533707	125170	20.2421	983.5564
Zolpidem	Zolpidem-D6	6.940	6260650	333039	18.7985	973.6091
Venlafaxine	Venlafaxine-D6	7.085	8393113	394764	21.2611	993.1146
Citalopram	Citalopram-D6	7.217	2810744	130208	21.5865	991.5186
Dextromethorphan	Dextromethorphan-D3	7.248	548100	24860	22.0478	1060.2963
Trazodone	Trazodone-D6	7.155	2576908	105690	24.3818	1053.1352
Diphenhydramine	Diphenhydramine-D3	7.271	4586079	236204	19.4158	991.3298
Promethazine	Promethazine-D3	7.426	2246368	124903	17.9848	996.5778

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

a cal 8

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	414817	6298	65.8669	963.3631
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.540	188422	8236	22.8785	1027.5455
Carisoprodol	Carisoprodol-D7	7.572	1606636	82202	19.5451	1031.9823
Alprazolam	Alprazolam-D5	7.605	1553833	58560	26.5340	1018.5079
Lorazepam	Alprazolam-D5	7.582	201270	58560	3.4370	1360.4722



ISP FORENSICS - Cd'A Instrument # 62340

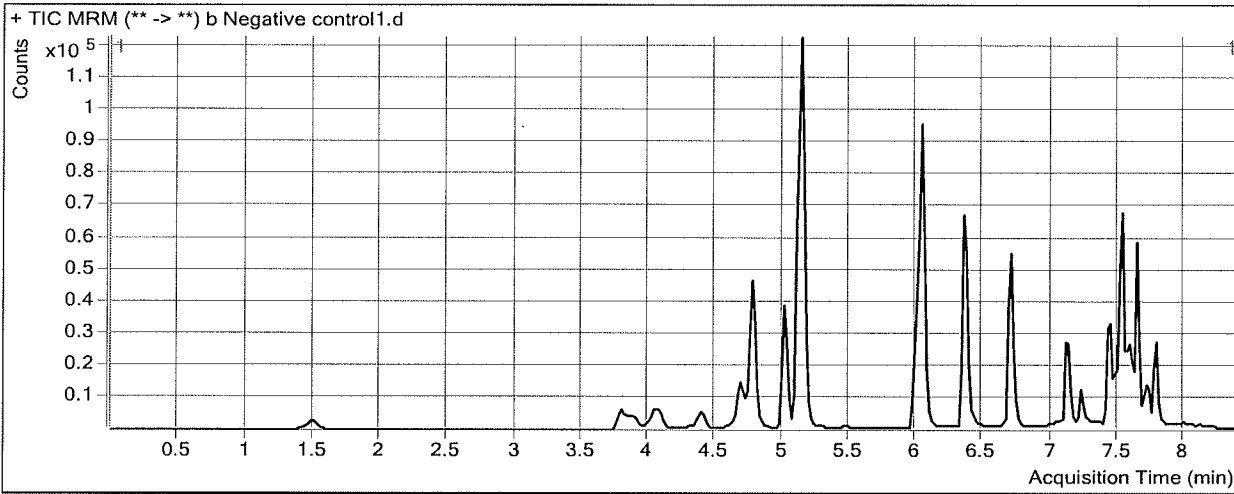
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 22:03 **Data File** b Negative control1.d
Sample Type Sample **Sample Name** b Negative control1
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-F2 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	992	154814	0.0064	0.3676 ^{2.5}
Fentanyl	Fentanyl-D5	7.118	1187	78457	0.0151	0.7676 ^{Not evaluated}
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	2158	23586	0.0915	4.5765 ^{Negative}
Fluoxetine	Fluoxetine-D6	7.564	6168	28773	0.2144	10.0668 ^{as second ion}

Handwritten notes:
 Ratio off also < 5
 *

Signature

ISP FORENSICS - Cd'A Instrument # 62340

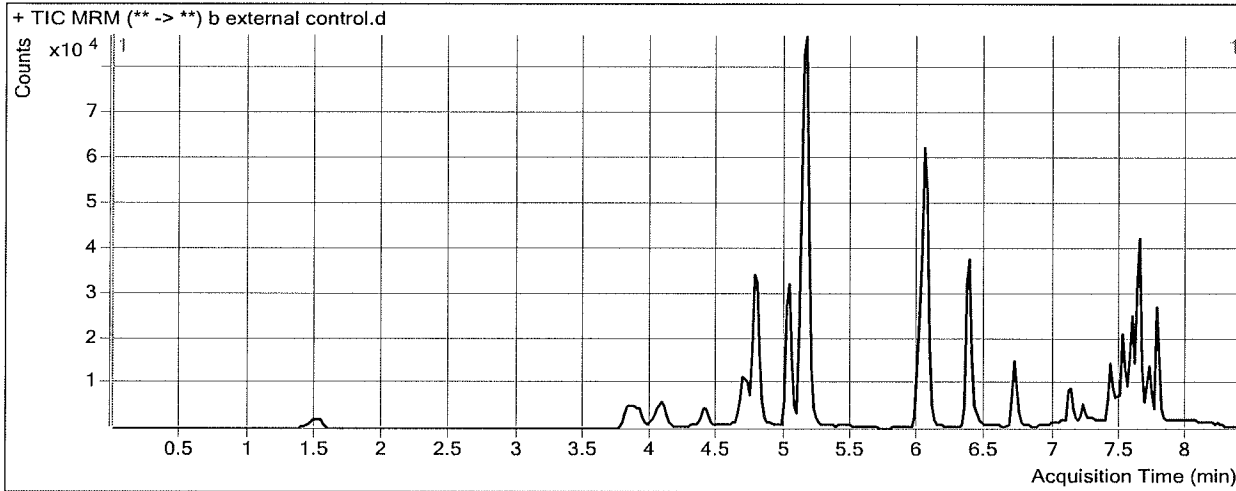
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-25 05:01 **Data File** b external control.d
Sample Type Sample **Sample Name** b external control
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-H4 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.589	17627	14880	1.1846	52.6745

ISP FORENSICS - Cd'A Instrument # 62340

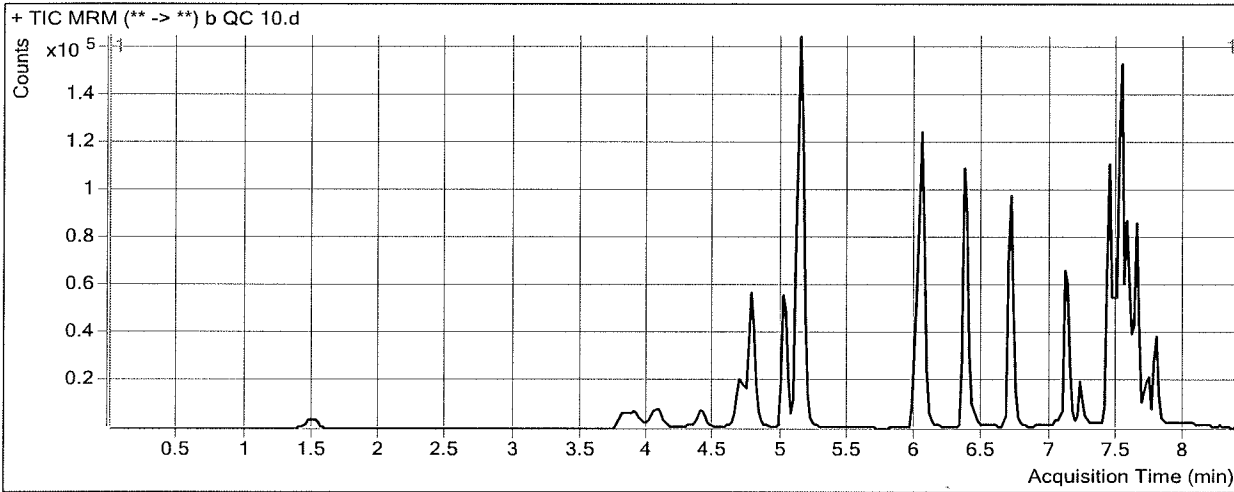
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 22:28 **Data File** b QC 10.d
Sample Type QC **Sample Name** b QC 10
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-A2 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	5123	22255	0.2302	10.1351
Dihydrocodeine	Dihydrocodeine-D6	3.915	9640	51029	0.1889	9.2787
Naloxone	Naloxone-D5	4.126	5411	43210	0.1252	10.6268
Noroxycodone	Noroxycodone-D3	4.439	6733	28873	0.2332	10.4126
Naltrexone	Naltrexone-D3	4.709	12455	58260	0.2138	10.2582
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.844	4073	195852	0.0208	0.9231
Naltrexol	Naltrexol-D3	5.029	34399	134517	0.2557	9.3636
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.159	87190	433446	0.2012	9.6940
Ketamine	Ketamine-D4	6.015	35109	143504	0.2447	10.0061
Norfentanyl	Norfentanyl-D5	6.060	5125	274343	0.0187	1.3682
alpha-PVP	alpha-PVP-d8	6.366	60445	252332	0.2395	10.1977
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	6126	279240	0.0219	1.1385
Norbuprenorphine	Norbuprenorphine-D3	7.032	161	6221	0.0259	1.1435
Fentanyl	Fentanyl-D5	7.118	4518	185783	0.0243	1.1683
EDDP	EDDP-D3	7.229	6553	30993	0.2114	10.8823
Sufentanil	Sufentanil-D5	7.437	2867	103254	0.0278	1.2558
Quetiapine	Quetiapine-D8	7.438	57580	77917	0.7390	10.1107
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	16838	68243	0.2467	11.1284
Methadone	Methadone-D9	7.522	48623	269076	0.1807	10.3051
Fluoxetine	Fluoxetine-D6	7.564	29163	123041	0.2370	11.1166
Oxazepam	Oxazepam-D5	7.589	5195	22376	0.2321	10.8410
Sertraline	Sertraline-D3	7.625	7624	28112	0.2712	13.6314
Temazepam	Temazepam-D5	7.647	23795	119968	0.1983	10.2754

out s.d.c curve limit A
not evaluated

ISP FORENSICS - Cd'A Instrument # 62340 *b qc 10*
Multi-Drug Confirmatory Analysis Report

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	10001	30797	0.3247	10.0468
Diazepam	Diazepam-D5	7.810	16802	69037	0.2434	10.3489
Buprenorphine	Buprenorphine-D4	7.636	1207	41334	0.0292	1.2394



ISP FORENSICS - Cd'A Instrument # 62340

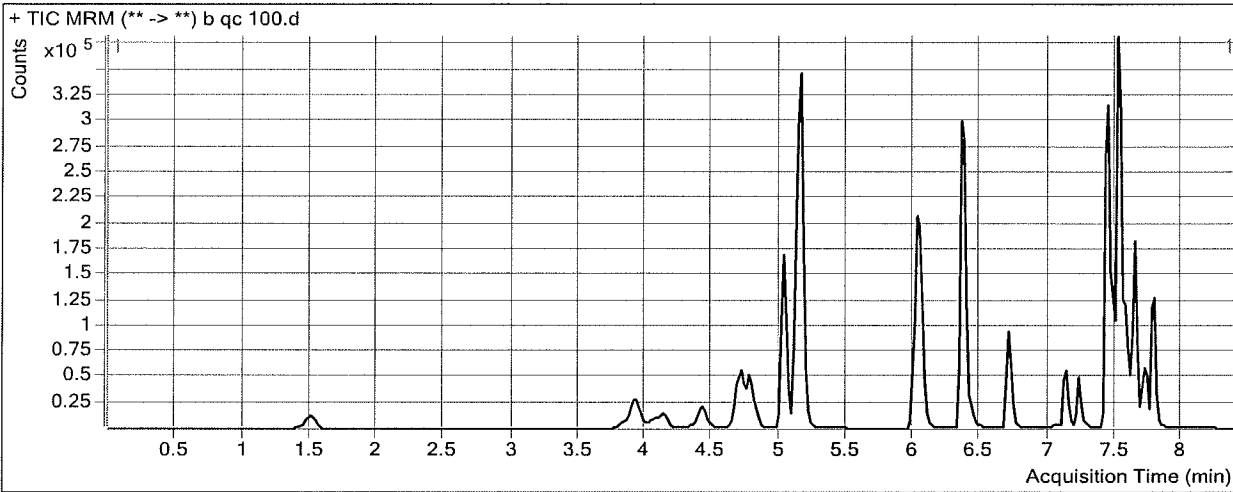
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-25 02:03 **Data File** b qc 100.d
Sample Type QC **Sample Name** b qc 100
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-B2 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	47875	19669	2.4340	105.4312
Dihydrocodeine	Dihydrocodeine-D6	3.935	88492	45717	1.9356	105.5756
Naloxone	Naloxone-D5	4.126	54290	36995	1.4675	115.0697
Noroxycodone	Noroxycodone-D3	4.439	58511	25664	2.2798	97.8485
Naltrexone	Naltrexone-D3	4.709	101491	48003	2.1143	100.6087
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.844	37639	167141	0.2252	9.9537
Naltrexol	Naltrexol-D3	5.029	302730	112814	2.6834	108.4459
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.159	764488	374059	2.0438	101.4757
Ketamine	Ketamine-D4	6.015	319526	125642	2.5431	103.3215
Norfentanyl	Norfentanyl-D5	6.060	47208	235720	0.2003	9.8654 <i>OK A</i>
alpha-PVP	alpha-PVP-d8	6.366	554236	221226	2.5053	104.2009
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.720	40833	211428	0.1931	9.6353
Norbuprenorphine	Norbuprenorphine-D3	7.032	985	4871	0.2022	9.5347
Fentanyl	Fentanyl-D5	7.118	27647	119795	0.2308	10.1739 <i>Not evaluated A</i>
EDDP	EDDP-D3	7.229	65997	28984	2.2770	100.2696
Sufentanil	Sufentanil-D5	7.437	13721	67901	0.2021	8.9223
Quetiapine	Quetiapine-D8	7.438	471764	66614	7.0820	94.1211
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	101772	44576	2.2831	97.0723
Methadone	Methadone-D9	7.502	364454	201738	1.8066	100.7417
Fluoxetine	Fluoxetine-D6	7.564	128453	65200	1.9701	91.4431
Oxazepam	Oxazepam-D5	7.589	31174	14253	2.1871	96.7050
Sertraline	Sertraline-D3	7.625	36178	15770	2.2941	104.8693
Temazepam	Temazepam-D5	7.647	182404	98422	1.8533	88.4724

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

b qc 100

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.715	75374	22044	3.4193	106.8218
Diazepam	Diazepam-D5	7.790	159876	61478	2.6005	105.8841
Buprenorphine	Buprenorphine-D4	7.636	8091	29660	0.2728	11.2421

out side
curve range
A

A

ISP FORENSICS - Cd'A Instrument # 62340

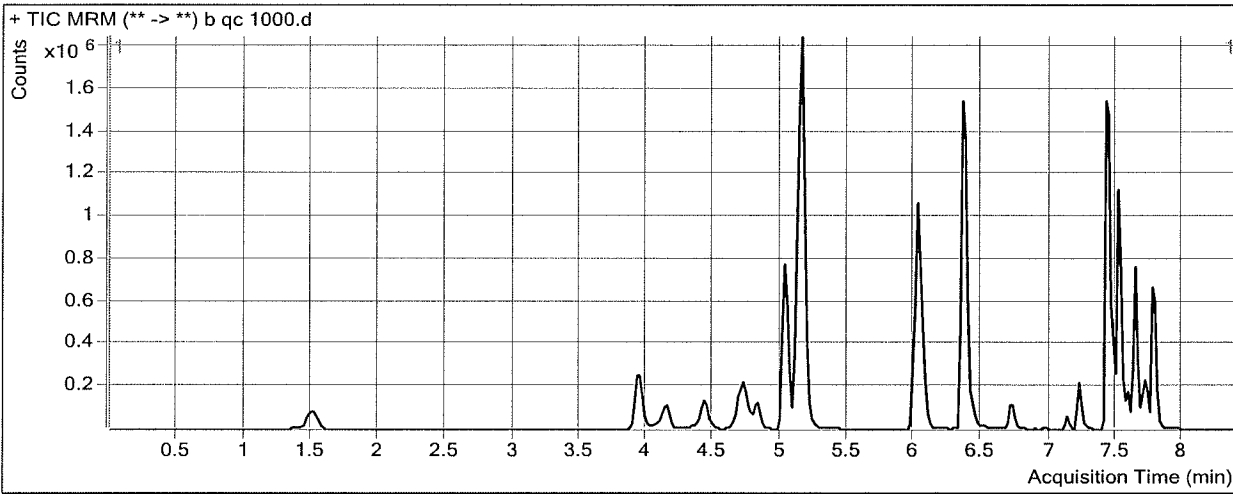
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-25 05:51 **Data File** b qc 1000.d
Sample Type QC **Sample Name** b qc 1000
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-D2 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	404241	17730	22.8003	986.1105
Dihydrocodeine	Dihydrocodeine-D6	3.955	652424	40651	16.0496	883.6683
Naloxone	Naloxone-D5	4.146	416194	30153	13.8030	1074.9045
Noroxycodone	Noroxycodone-D3	4.439	419780	18479	22.7168	970.9473
Naltrexone	Naltrexone-D3	4.709	538538	27664	19.4670	925.5758
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.844	331554	143054	2.3177	102.4011
Naltrexol	Naltrexol-D3	5.029	1888698	81125	23.2815	949.1133
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.159	5860367	300907	19.4757	969.7727
Ketamine	Ketamine-D4	6.015	2347663	101226	23.1922	941.6466
Norfentanyl	Norfentanyl-D5	6.060	384828	174423	2.2063	103.7343
alpha-PVP	alpha-PVP-d8	6.366	3623275	154416	23.4644	973.7700
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.720	169710	87857	1.9317	95.9234
Norbuprenorphine	Norbuprenorphine-D3	7.032	2996	1562	1.9181	91.1789
Fentanyl	Fentanyl-D5	7.118	71122	32304	2.2016	96.1368
EDDP	EDDP-D3	7.229	414575	18673	22.2022	962.5525
Sufentanil	Sufentanil-D5	7.437	31960	16545	1.9317	84.9999
Quetiapine	Quetiapine-D8	7.418	2804519	39468	71.0583	941.4568
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	197000	8247	23.8885	1008.9171
Methadone	Methadone-D9	7.502	1251187	71658	17.4606	971.4759
Fluoxetine	Fluoxetine-D6	7.564	123949	7397	16.7564	776.7564
Oxazepam	Oxazepam-D5	7.589	197046	9387	20.9906	922.5592
Sertraline	Sertraline-D3	7.625	26261	1424	18.4457	833.3212
Temazepam	Temazepam-D5	7.647	1104906	60624	18.2256	862.0690

not evaluated
A

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

b ac 1000

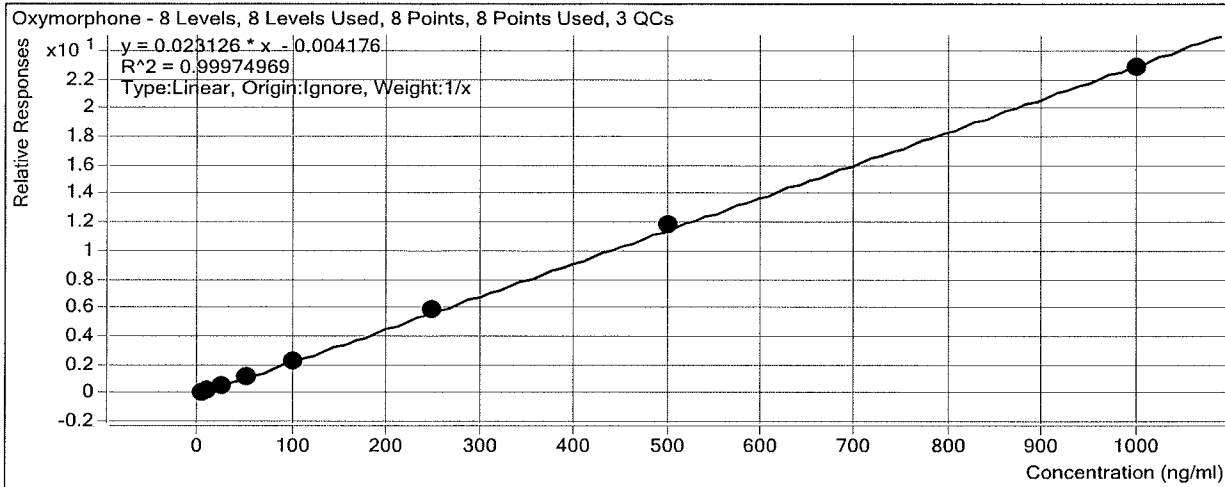
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.714	333564	11111	30.0209	938.7257
Diazepam	Diazepam-D5	7.770	1052616	40785	25.8089	1046.5137
Buprenorphine	Buprenorphine-D4	7.636	18587	5610	3.3133	136.0941

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Oxymorphone
Internal Standard Oxymorphone-D3



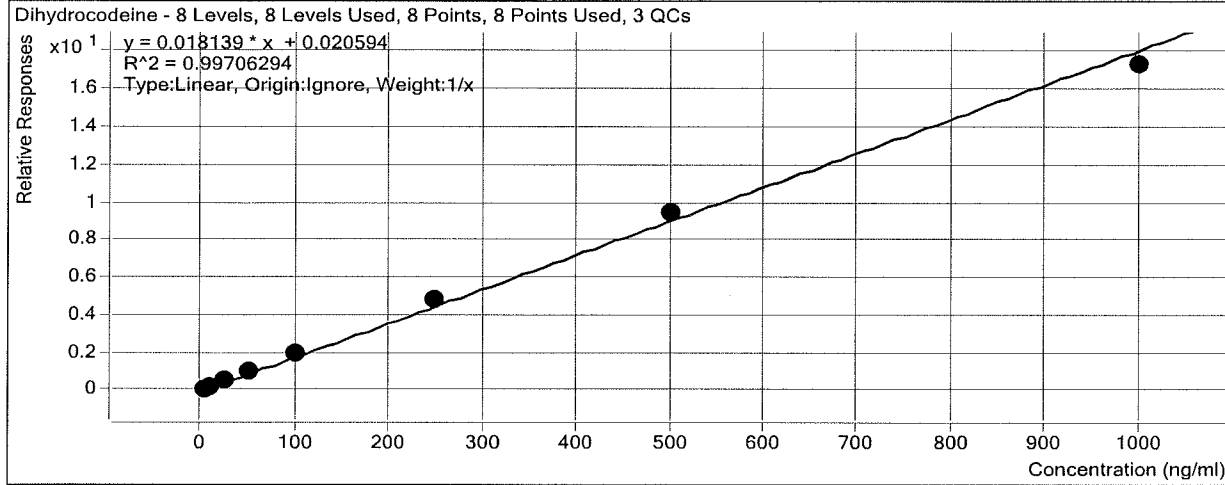
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b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	95.9
b QC 10	2	<input checked="" type="checkbox"/>	10	10.1	101.4
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.8	99.4
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.7	99.4
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.0	100.0
b qc 100	5	<input checked="" type="checkbox"/>	100	105.4	105.4
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.2	100.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	511.0	102.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	987.5	98.8
b qc 1000	8	<input checked="" type="checkbox"/>	1000	986.1	98.6

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Dihydrocodeine
Internal Standard Dihydrocodeine-D6



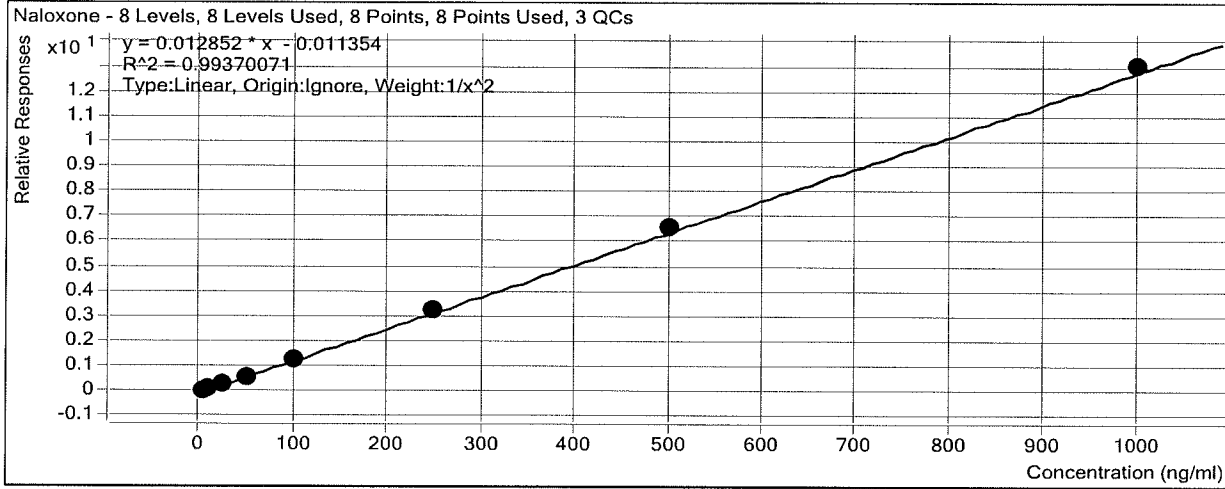
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b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	93.9
b QC 10	2	<input checked="" type="checkbox"/>	10	9.3	92.8
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.1	104.5
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.8	105.5
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	107.2	107.2
b qc 100	5	<input checked="" type="checkbox"/>	100	105.6	105.6
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	265.8	106.3
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	522.5	104.5
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	952.1	95.2
b qc 1000	8	<input checked="" type="checkbox"/>	1000	883.7	88.4

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Naloxone*
Internal Standard *Naloxone-D5*



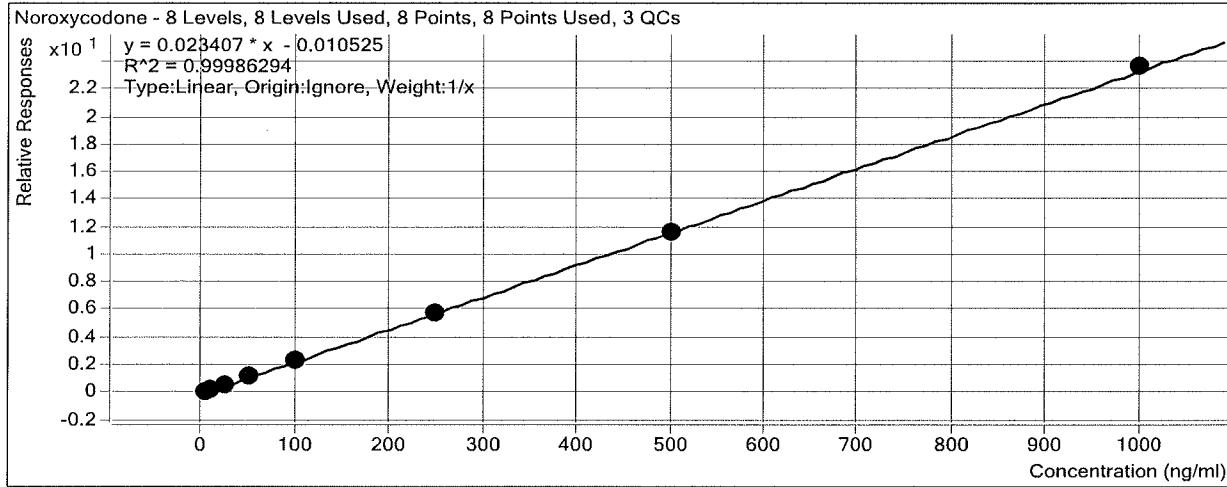
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b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.5	85.2
b QC 10	2	<input checked="" type="checkbox"/>	10	10.6	106.3
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.5	106.0
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.6	95.1
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.0	102.0
b qc 100	5	<input checked="" type="checkbox"/>	100	115.1	115.1
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	253.1	101.3
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	512.9	102.6
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1013.6	101.4
b qc 1000	8	<input checked="" type="checkbox"/>	1000	1074.9	107.5

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Noroxycodone*
Internal Standard *Noroxycodone-D3*



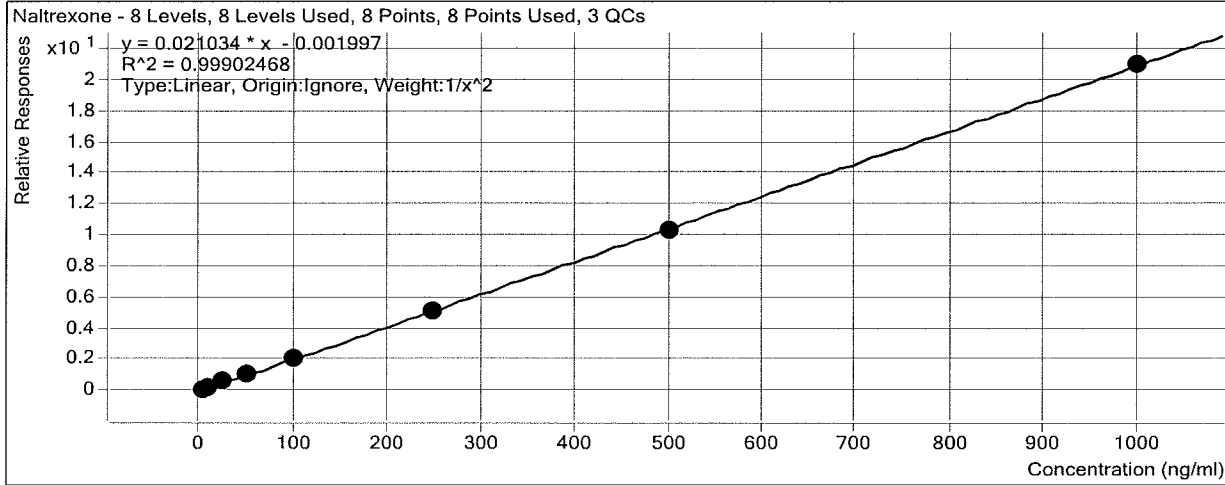
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b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	99.6
b QC 10	2	<input checked="" type="checkbox"/>	10	10.4	104.1
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.5	98.2
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.1	98.3
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.4	98.4
b qc 100	5	<input checked="" type="checkbox"/>	100	97.8	97.8
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.7	98.3
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	497.7	99.5
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1009.2	100.9
b qc 1000	8	<input checked="" type="checkbox"/>	1000	970.9	97.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Naltrexone*
Internal Standard *Naltrexone-D3*



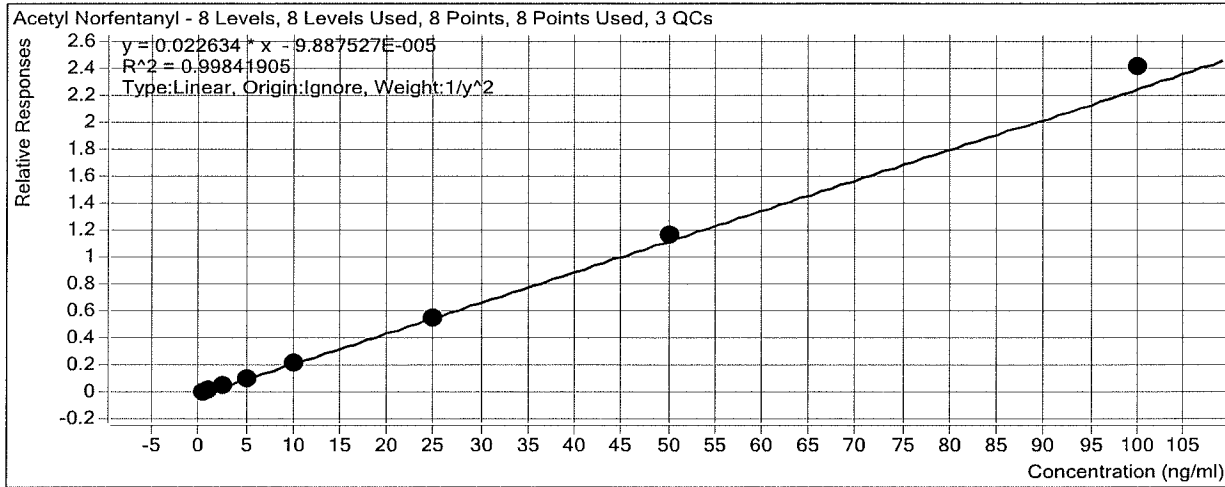
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.3
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	97.0
b QC 10	2	<input checked="" type="checkbox"/>	10	10.3	102.6
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.2	105.0
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.0	101.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.1	101.1
b qc 100	5	<input checked="" type="checkbox"/>	100	100.6	100.6
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	242.2	96.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	491.2	98.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	995.7	99.6
b qc 1000	8	<input checked="" type="checkbox"/>	1000	925.6	92.6

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Acetyl Norfentanyl*
Internal Standard *Acetyl Norfentanyl-D5*



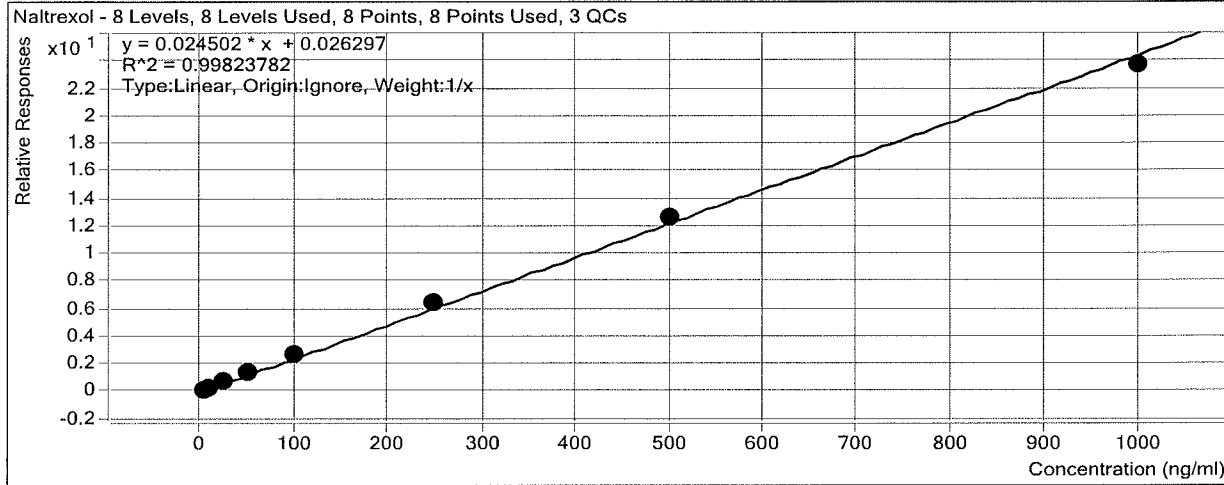
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	0.5	0.5	101.0
b cal 2-10ng	2	<input checked="" type="checkbox"/>	1	1.0	100.5
b QC 10	2	<input checked="" type="checkbox"/>	1	0.9	92.3
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.4	96.1
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.8	96.3
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	9.9	98.9
b qc 100	5	<input checked="" type="checkbox"/>	10	10.0	99.5
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	24.7	98.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	51.8	103.5
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	106.4	106.4
b qc 1000	8	<input checked="" type="checkbox"/>	100	102.4	102.4

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Naltrexol*
Internal Standard *Naltrexol-D3*



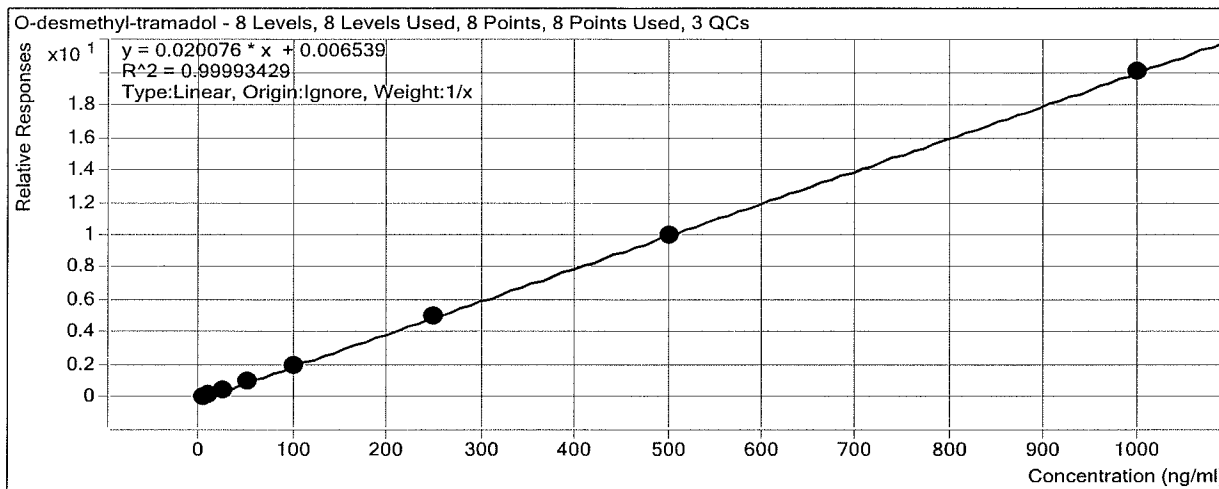
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.2	84.0
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	95.4
b QC 10	2	<input checked="" type="checkbox"/>	10	9.4	93.6
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.0
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.1	106.2
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	107.5	107.5
b qc 100	5	<input checked="" type="checkbox"/>	100	108.4	108.4
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	261.4	104.6
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	514.2	102.8
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	964.3	96.4
b qc 1000	8	<input checked="" type="checkbox"/>	1000	949.1	94.9

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *O-desmethyl-tramadol*
Internal Standard *O-desmethyl-tramadol-D6*



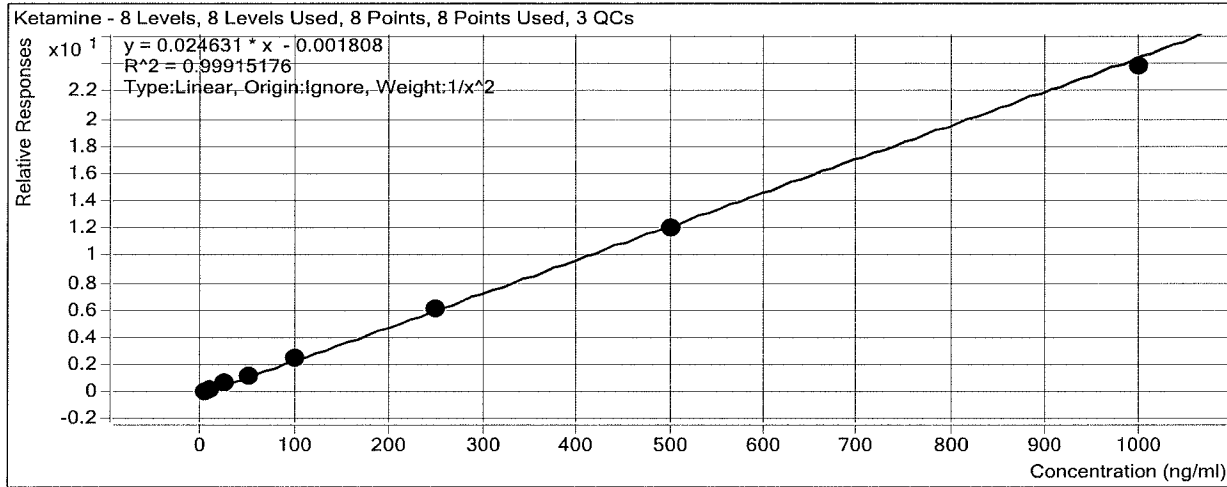
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	94.9
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.0
b QC 10	2	<input checked="" type="checkbox"/>	10	9.7	96.9
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.6	102.5
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.9	101.8
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.7	101.7
b qc 100	5	<input checked="" type="checkbox"/>	100	101.5	101.5
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.3	100.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	497.3	99.5
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	997.5	99.7
b qc 1000	8	<input checked="" type="checkbox"/>	1000	969.8	97.0

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Ketamine
Internal Standard Ketamine-D4



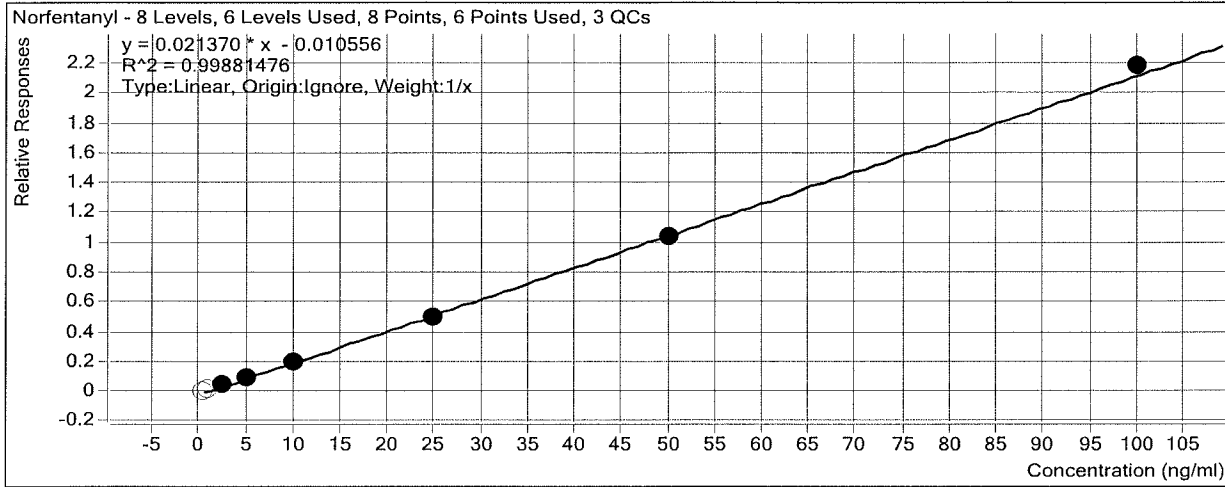
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.5
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.1
b QC 10	2	<input checked="" type="checkbox"/>	10	10.0	100.1
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.0
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.9	103.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.3	101.3
b qc 100	5	<input checked="" type="checkbox"/>	100	103.3	103.3
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.6	99.0
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	487.8	97.6
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	966.8	96.7
b qc 1000	8	<input checked="" type="checkbox"/>	1000	941.6	94.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Norfentanyl*
Internal Standard *Norfentanyl-D5*



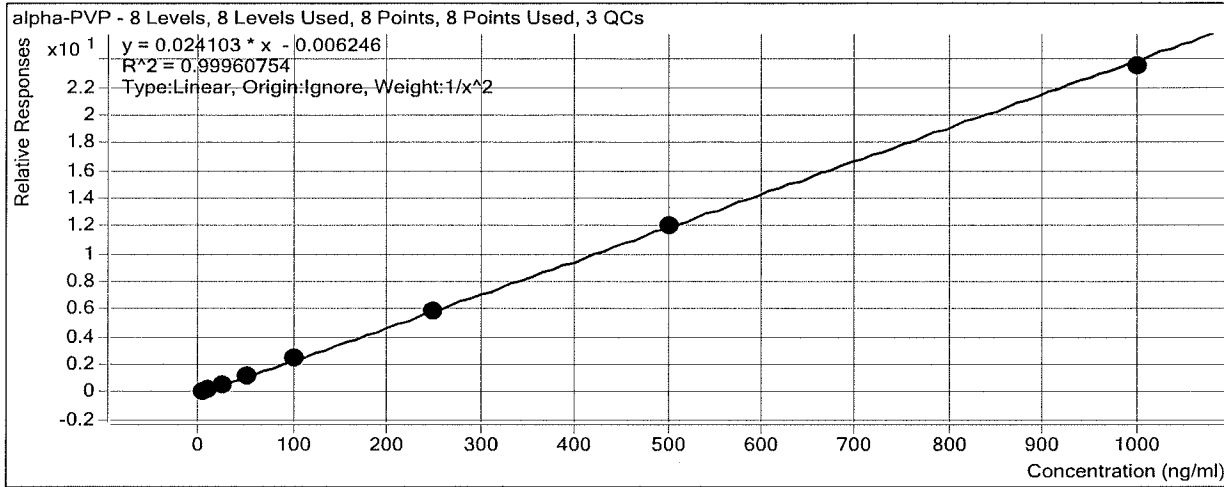
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input type="checkbox"/>	0.5	0.9	180.6
b cal 2-10ng	2	<input type="checkbox"/>	1	1.3	134.3
b QC 10	2	<input type="checkbox"/>	1	1.4	136.8
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.7	109.1
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.9	99.0
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	9.6	96.4
b qc 100	5	<input checked="" type="checkbox"/>	10	9.9	98.7
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	23.8	95.2
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	48.9	97.9
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	102.4	102.4
b qc 1000	8	<input checked="" type="checkbox"/>	100	103.7	103.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *alpha-PVP*
Internal Standard *alpha-PVP-d8*



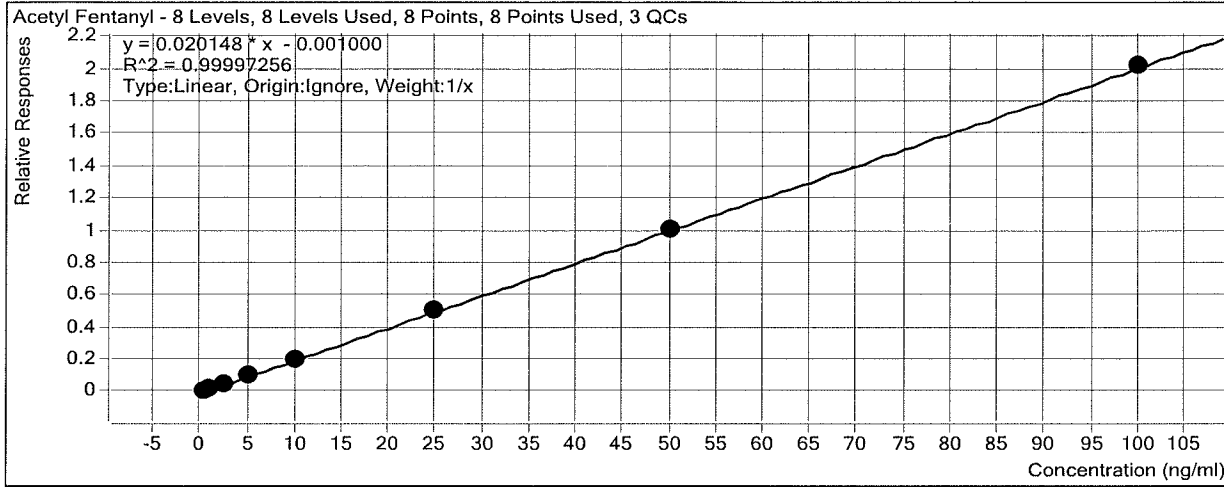
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.6
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	99.6
b QC 10	2	<input checked="" type="checkbox"/>	10	10.2	102.0
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.5	102.2
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.9	101.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.6	101.6
b qc 100	5	<input checked="" type="checkbox"/>	100	104.2	104.2
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.4	98.1
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	497.8	99.6
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	975.5	97.6
b qc 1000	8	<input checked="" type="checkbox"/>	1000	973.8	97.4

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Acetyl Fentanyl*
Internal Standard *Acetyl Fentanyl-D5*



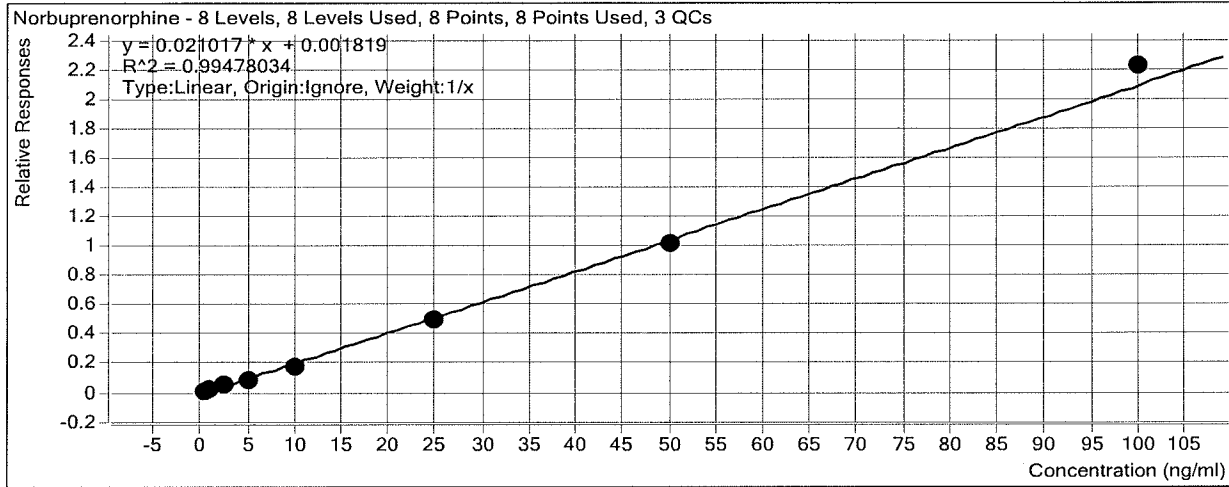
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	0.5	0.5	104.5
b cal 2-10ng	2	<input checked="" type="checkbox"/>	1	1.0	98.5
b QC 10	2	<input checked="" type="checkbox"/>	1	1.1	113.9
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.5	99.1
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.9	99.0
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	9.9	99.3
b qc 100	5	<input checked="" type="checkbox"/>	10	9.6	96.4
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	24.8	99.2
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	50.1	100.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	100.2	100.2
b qc 1000	8	<input checked="" type="checkbox"/>	100	95.9	95.9

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Norbuprenorphine*
Internal Standard *Norbuprenorphine-D3*



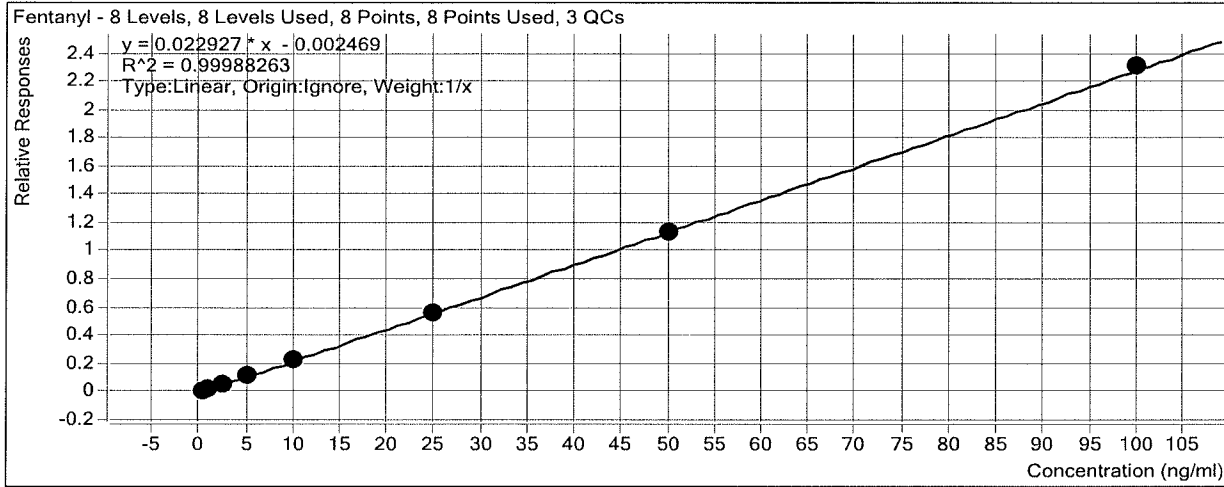
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	0.5	0.6	116.2
b cal 2-10ng	2	<input checked="" type="checkbox"/>	1	1.3	125.5
b QC 10	2	<input checked="" type="checkbox"/>	1	1.1	114.4
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.4	94.5
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.1	83.0
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	8.5	84.8
b qc 100	5	<input checked="" type="checkbox"/>	10	9.5	95.3
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	23.6	94.3
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	48.0	96.0
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	105.6	105.6
b qc 1000	8	<input checked="" type="checkbox"/>	100	91.2	91.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Fentanyl
Internal Standard Fentanyl-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	0.5	0.5	107.5
b cal 2-10ng	2	<input checked="" type="checkbox"/>	1	1.0	98.3
b QC 10	2	<input checked="" type="checkbox"/>	1	1.2	116.8
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.5	98.1
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.9	97.2
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	10.0	100.2
b qc 100	5	<input checked="" type="checkbox"/>	10	10.2	101.7
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	24.6	98.2
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	49.9	99.8
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	100.7	100.7
b qc 1000	8	<input checked="" type="checkbox"/>	100	96.1	96.1

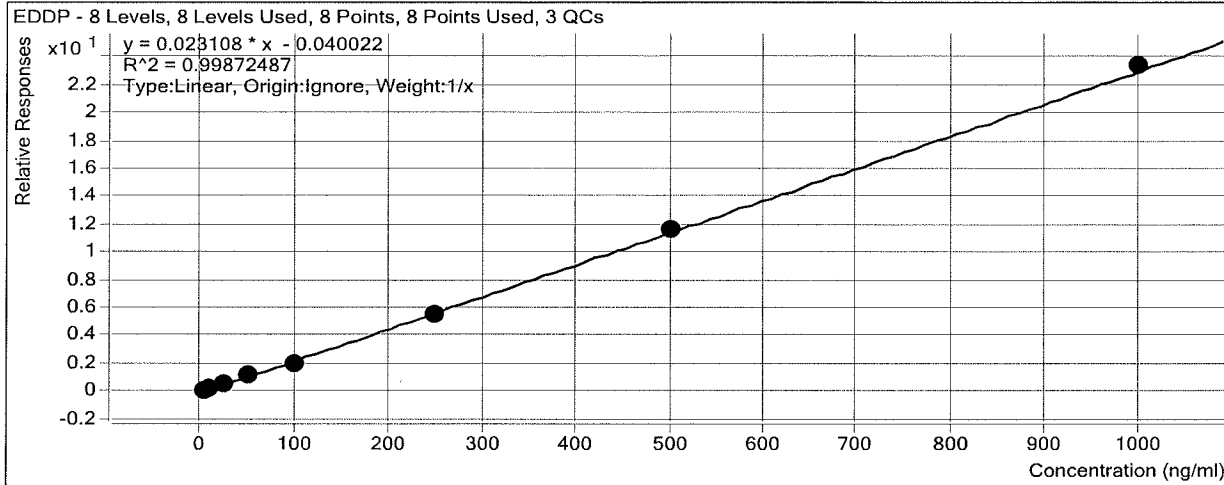
Not evaluated slight response
in negative control
A

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound EDDP
Internal Standard EDDP-D3



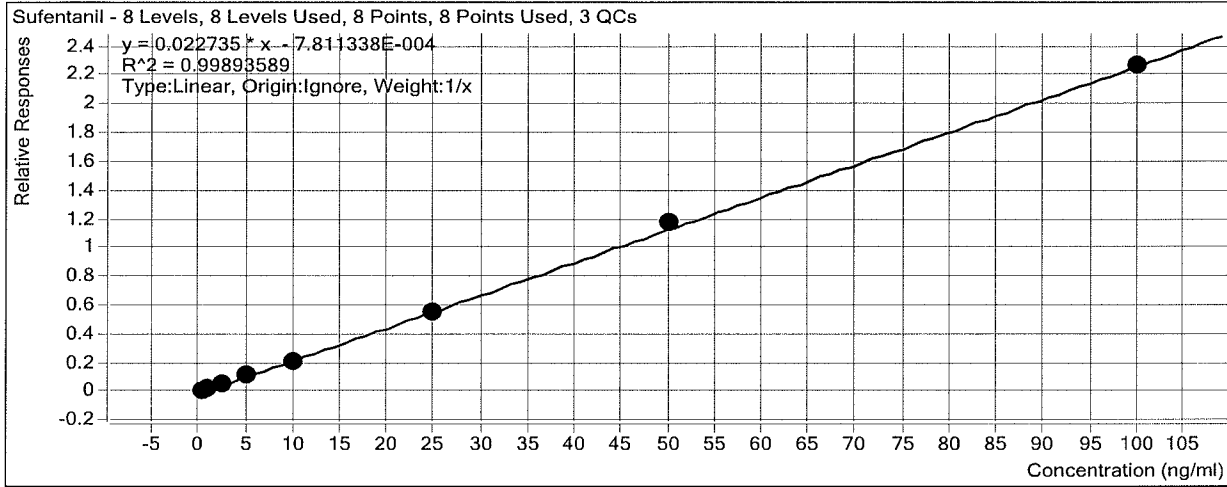
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	6.1	123.0
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	96.7
b QC 10	2	<input checked="" type="checkbox"/>	10	10.9	108.8
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.8	91.1
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.4	100.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	88.6	88.6
b qc 100	5	<input checked="" type="checkbox"/>	100	100.3	100.3
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	242.6	97.0
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	507.8	101.6
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1012.0	101.2
b qc 1000	8	<input checked="" type="checkbox"/>	1000	962.6	96.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Sufentanil
Internal Standard Sufentanil-D5



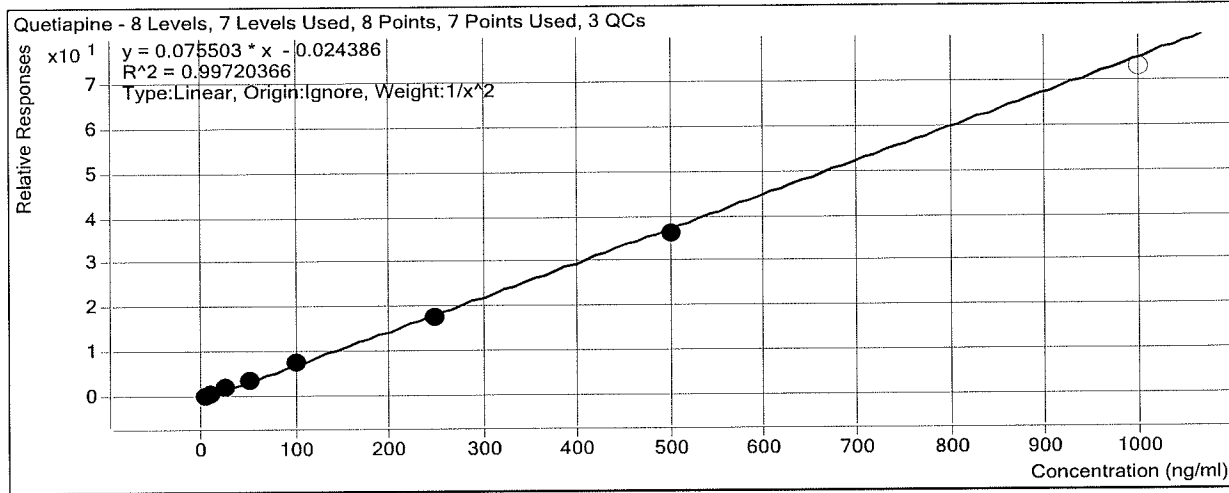
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	0.5	0.6	120.9
b cal 2-10ng	2	<input checked="" type="checkbox"/>	1	1.0	95.7
b QC 10	2	<input checked="" type="checkbox"/>	1	1.3	125.6
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.3	90.5
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.9	98.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	9.3	92.6
b qc 100	5	<input checked="" type="checkbox"/>	10	8.9	89.2
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	24.5	97.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	51.9	103.9
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	99.6	99.6
b qc 1000	8	<input checked="" type="checkbox"/>	100	85.0	85.0

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Quetiapine*
Internal Standard *Quetiapine-D8*



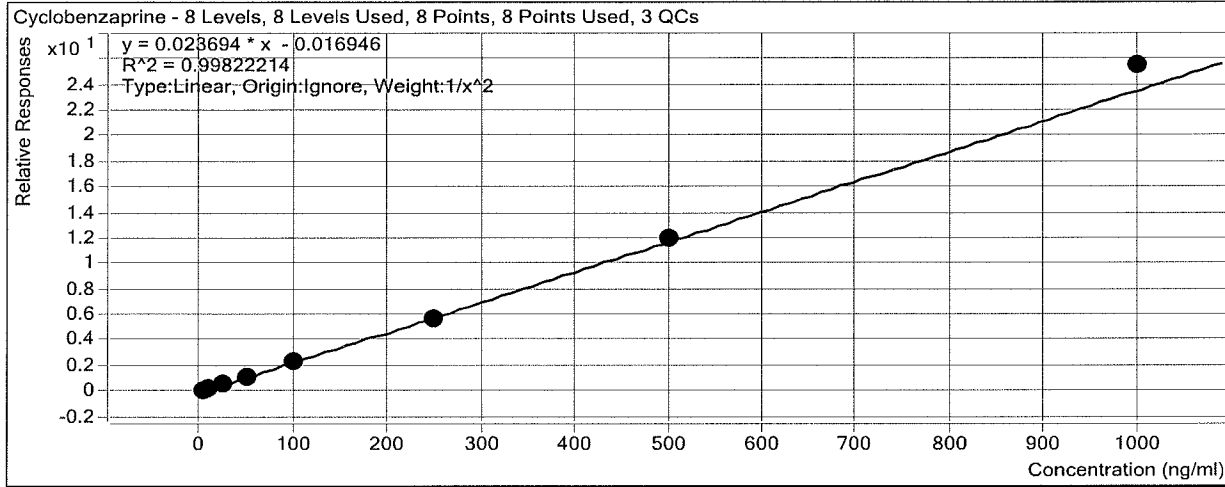
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.1
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.7
b QC 10	2	<input checked="" type="checkbox"/>	10	10.1	101.1
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.7	106.9
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.8	101.6
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.8	103.8
b qc 100	5	<input checked="" type="checkbox"/>	100	94.1	94.1
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	234.7	93.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	480.3	96.1
b cal 8-1000ng	8	<input type="checkbox"/>	1000	963.2	96.3
b qc 1000	8	<input type="checkbox"/>	1000	941.5	94.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Cyclobenzaprine
Internal Standard Cyclobenzaprine-D3



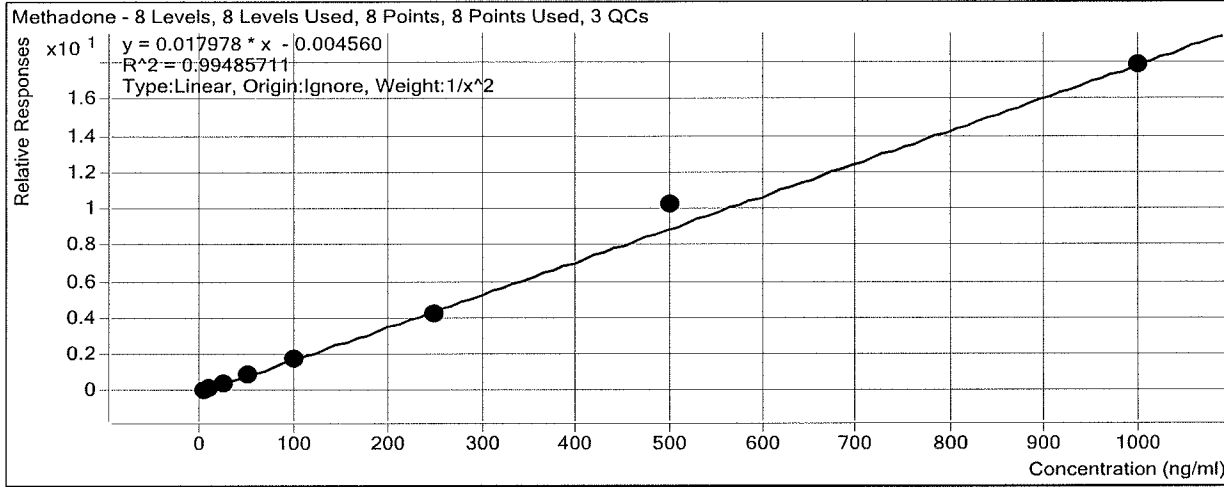
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.7
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.4
b QC 10	2	<input checked="" type="checkbox"/>	10	11.1	111.3
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.8	99.4
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.4	98.7
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.5	98.5
b qc 100	5	<input checked="" type="checkbox"/>	100	97.1	97.1
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	236.2	94.5
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	506.0	101.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1075.6	107.6
b qc 1000	8	<input checked="" type="checkbox"/>	1000	1008.9	100.9

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Methadone*
Internal Standard *Methadone-D9*



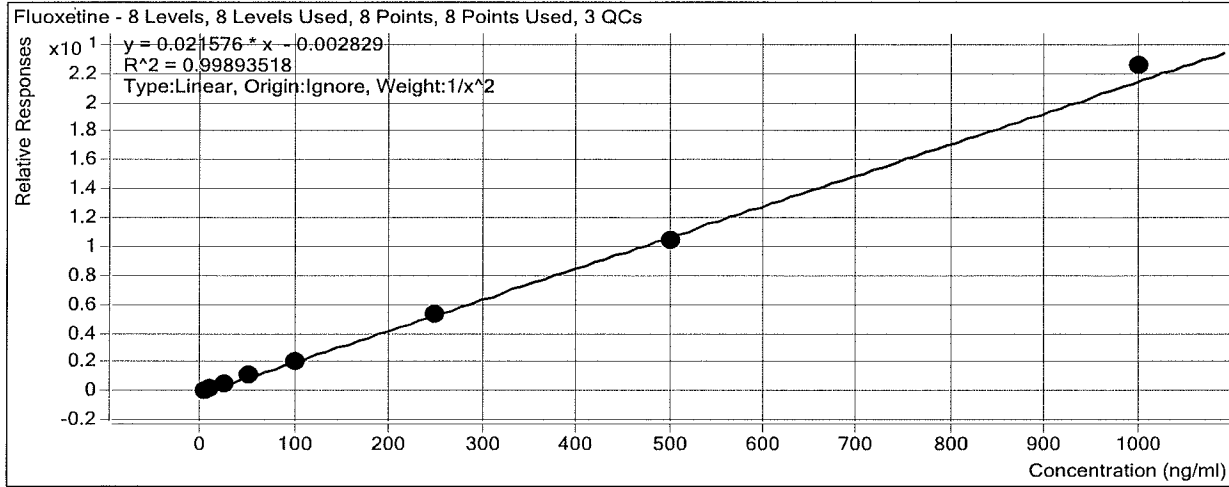
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.8
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	99.6
b QC 10	2	<input checked="" type="checkbox"/>	10	10.3	103.1
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.9	99.5
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.5	96.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	96.8	96.8
b qc 100	5	<input checked="" type="checkbox"/>	100	100.7	100.7
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	232.3	92.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	570.9	114.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	993.2	99.3
b qc 1000	8	<input checked="" type="checkbox"/>	1000	971.5	97.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Fluoxetine*
Internal Standard *Fluoxetine-D6*



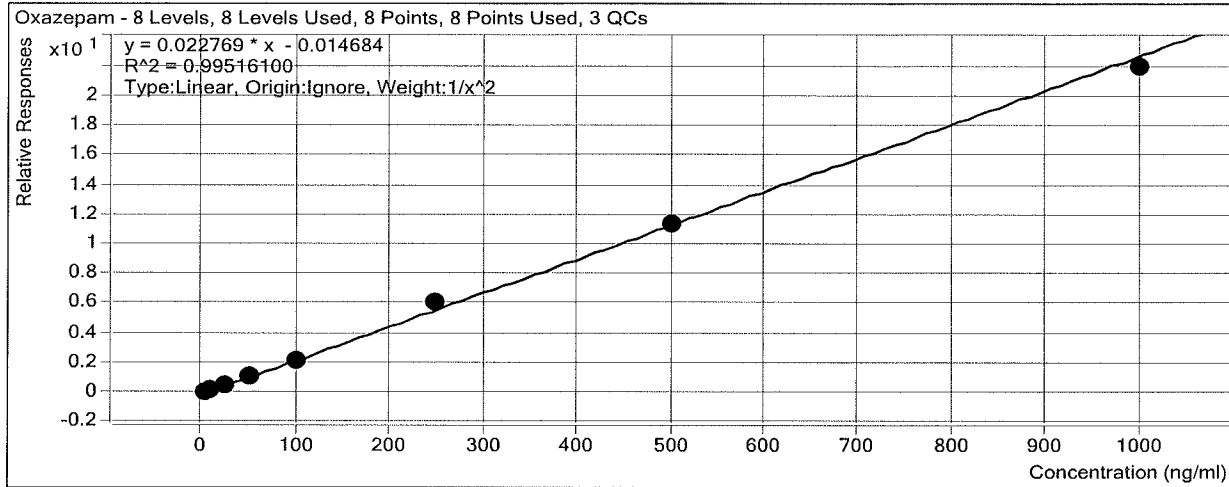
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.5
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	96.4
b QC 10	2	<input checked="" type="checkbox"/>	10	11.1	111.2
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.2	100.7
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.2	102.4
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.7	98.7
b qc 100	5	<input checked="" type="checkbox"/>	100	91.4	91.4
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.2	99.7
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	481.5	96.3
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1043.3	104.3
b qc 1000	8	<input checked="" type="checkbox"/>	1000	776.8	77.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Oxazepam
Internal Standard Oxazepam-D5



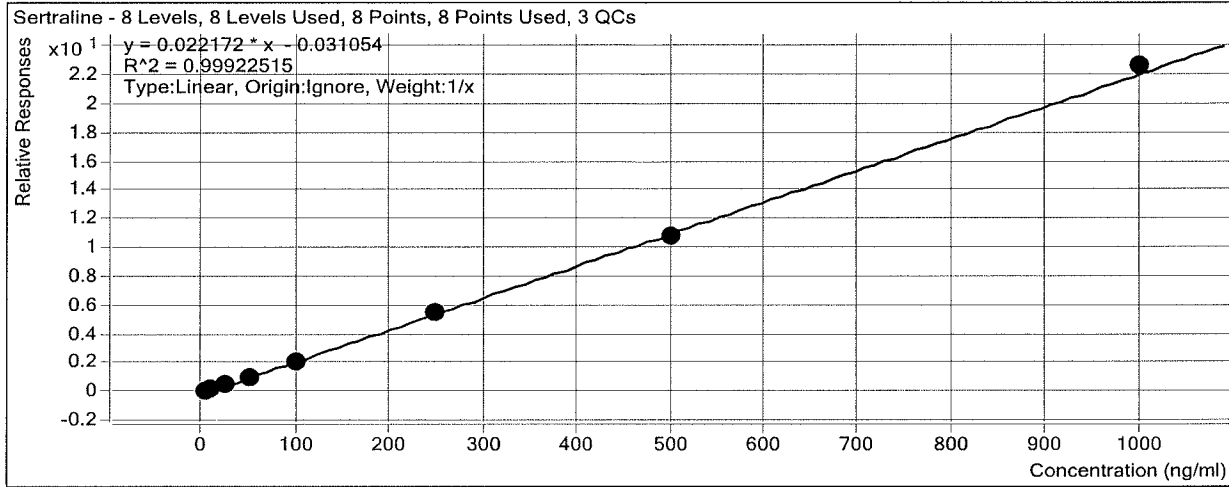
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	94.7
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	11.2	112.2
b QC 10	2	<input checked="" type="checkbox"/>	10	10.8	108.4
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.3	97.4
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.2	98.4
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	95.2	95.2
b qc 100	5	<input checked="" type="checkbox"/>	100	96.7	96.7
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	264.2	105.7
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	501.7	100.3
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	961.1	96.1
b qc 1000	8	<input checked="" type="checkbox"/>	1000	922.6	92.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Sertraline
Internal Standard Sertraline-D3



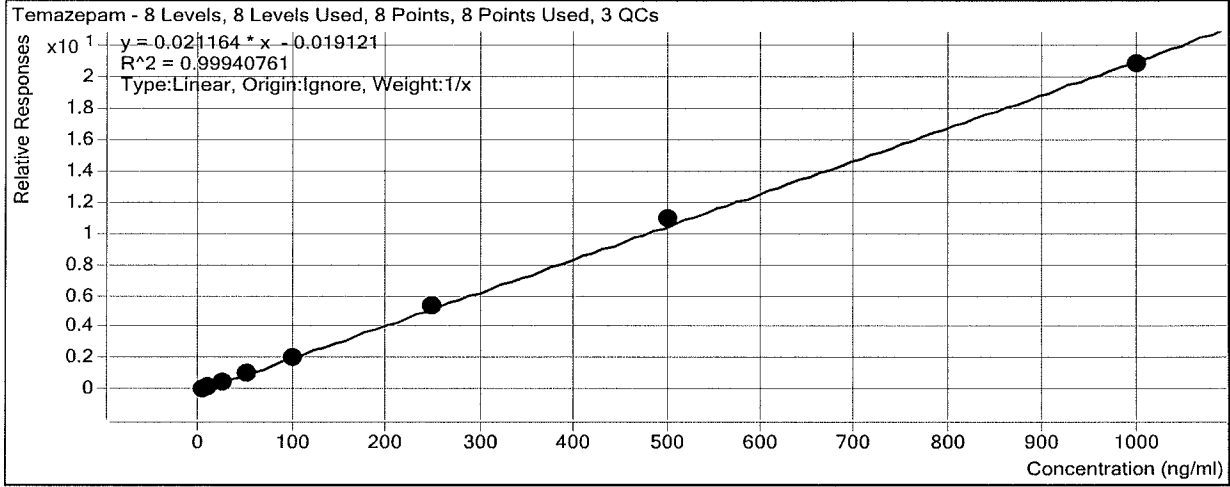
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.7	113.6
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.5	104.9
b QC 10	2	<input checked="" type="checkbox"/>	10	13.6	136.3
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.0	96.0
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	45.0	90.1
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	96.1	96.1
b qc 100	5	<input checked="" type="checkbox"/>	100	104.9	104.9
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.9	99.1
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	491.0	98.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1019.8	102.0
b qc 1000	8	<input checked="" type="checkbox"/>	1000	833.3	83.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Temazepam*
Internal Standard *Temazepam-D5*



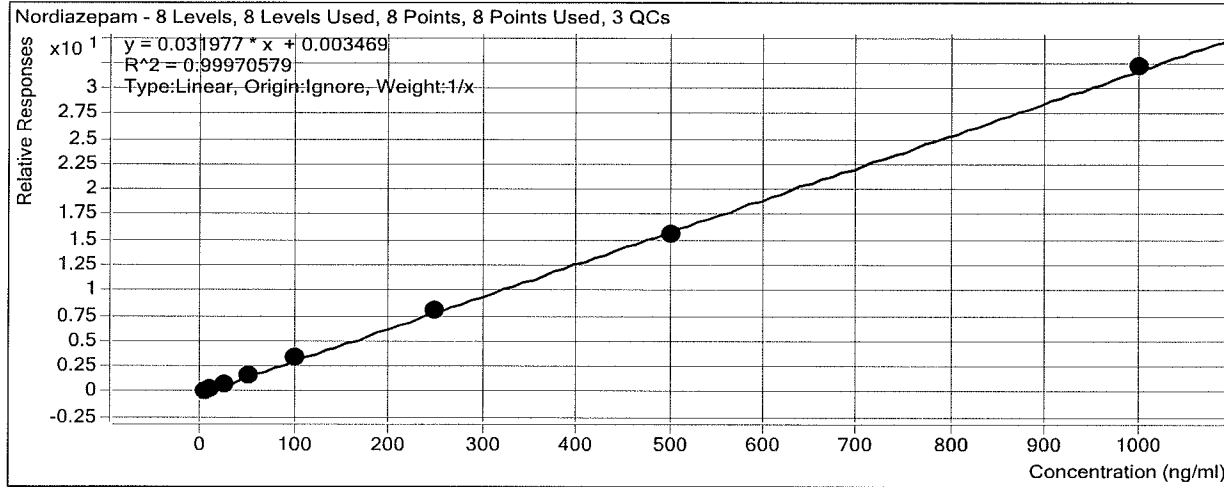
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.4	108.7
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	99.8
b QC 10	2	<input checked="" type="checkbox"/>	10	10.3	102.8
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.4	93.7
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.0	95.9
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.2	99.2
b qc 100	5	<input checked="" type="checkbox"/>	100	88.5	88.5
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	251.7	100.7
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	517.2	103.4
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	985.1	98.5
b qc 1000	8	<input checked="" type="checkbox"/>	1000	862.1	86.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound Nordiazepam
Internal Standard Nordiazepam-D5



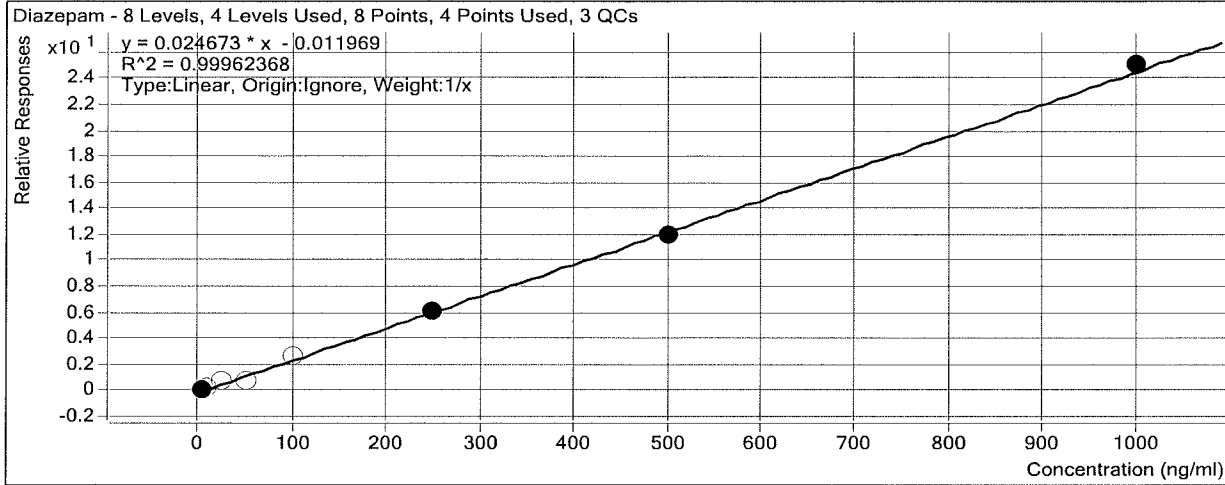
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.8	95.0
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.7
b QC 10	2	<input checked="" type="checkbox"/>	10	10.0	100.5
b cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.7	102.8
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.2	100.5
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.7	104.7
b qc 100	5	<input checked="" type="checkbox"/>	100	106.8	106.8
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.7	99.9
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	489.2	97.8
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1005.9	100.6
b qc 1000	8	<input checked="" type="checkbox"/>	1000	938.7	93.9

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Diazepam*
Internal Standard *Diazepam-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.0
b cal 2-10ng	2	<input type="checkbox"/>	10	9.7	97.1
b QC 10	2	<input type="checkbox"/>	10	10.3	103.5
b cal 3-25ng	3	<input type="checkbox"/>	25	27.1	108.5
b cal 4-50ng	4	<input type="checkbox"/>	50	28.5	56.9
b cal 5-100ng	5	<input type="checkbox"/>	100	104.8	104.8
b qc 100	5	<input type="checkbox"/>	100	105.9	105.9
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.7	99.1
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	486.5	97.3
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1015.7	101.6
b qc 1000	8	<input checked="" type="checkbox"/>	1000	1046.5	104.7

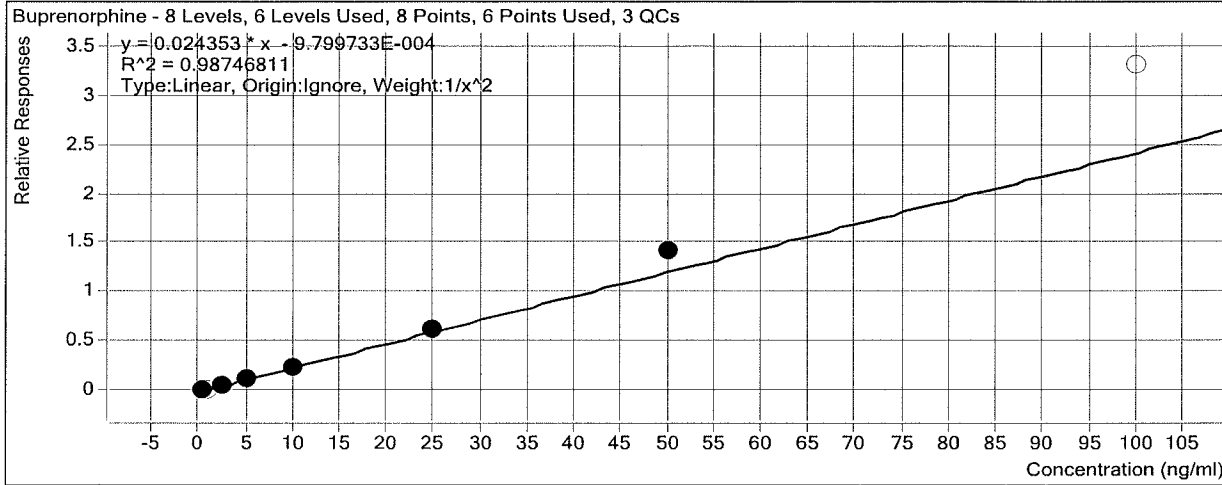
Points dropped due to flat tops on peaks.
A

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin

Last Calib Update 10/26/2017 9:02 AM **Analyst Name** ISP TOX

Target Compound *Buprenorphine*
Internal Standard *Buprenorphine-D4*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	<input checked="" type="checkbox"/>	0.5	0.5	101.9
b cal 2-10ng	2	<input type="checkbox"/>	1	0.5	53.0
b QC 10	2	<input type="checkbox"/>	1	1.2	123.9
b cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.4	97.1
b cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.4	88.3
b cal 5-100ng	5	<input checked="" type="checkbox"/>	10	9.2	92.0
b qc 100	5	<input checked="" type="checkbox"/>	10	11.2	112.4
b cal 6-250ng	6	<input checked="" type="checkbox"/>	25	25.8	103.2
b cal 7-500ng	7	<input checked="" type="checkbox"/>	50	58.8	117.6
b cal 8-1000ng	8	<input type="checkbox"/>	100	135.8	135.8
b qc 1000	8	<input type="checkbox"/>	100	136.1	136.1

ISP FORENSICS - Cd'A Instrument # 62340

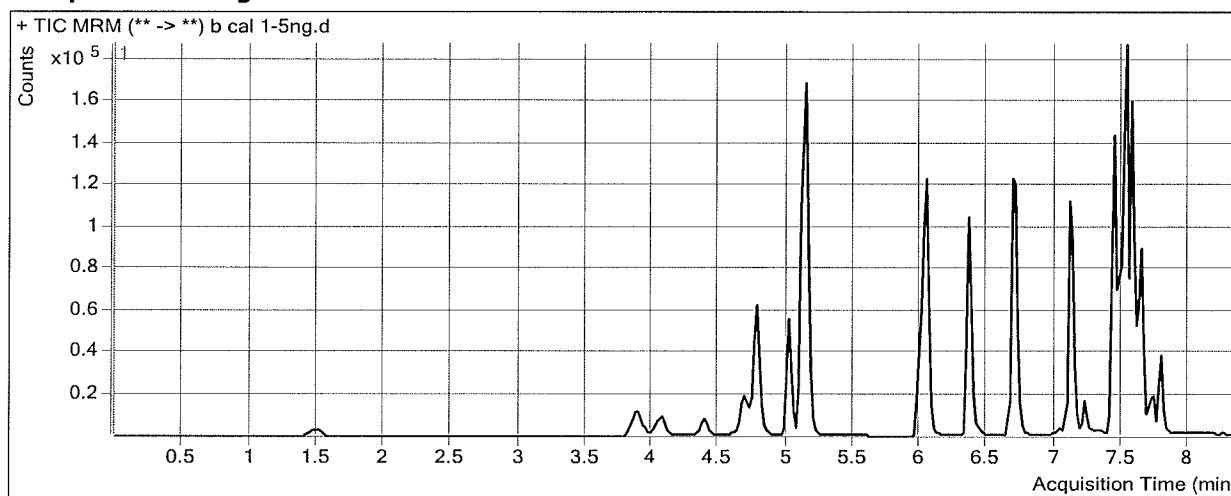
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 18:27 **Data File** b cal 1-5ng.d
Sample Type Calibration **Sample Name** b cal 1-5ng
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-A1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



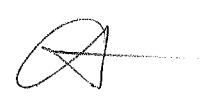
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	2591	22434	0.1155	5.1756
Dihydrocodeine	Dihydrocodeine-D6	3.955	5108	53369	0.0957	4.1413
Naloxone	Naloxone-D5	4.126	2503	43834	0.0571	5.3263
Noroxycodone	Noroxycodone-D3	4.439	3569	31167	0.1145	5.3416
Naltrexone	Naltrexone-D3	4.709	6324	61089	0.1035	5.0167
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	2399	211683	0.0113	0.5050
Naltrexol	Naltrexol-D3	5.029	17694	136972	0.1292	4.1989
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	47368	465349	0.1018	4.7445
Ketamine	Ketamine-D4	6.015	17904	148365	0.1207	4.9726
Norfentanyl	Norfentanyl-D5	6.060	2533	289849	0.0087	0.9029
alpha-PVP	alpha-PVP-d8	6.366	29584	260055	0.1138	4.9789
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	3728	391303	0.0095	0.5225
Norbuprenorphine	Norbuprenorphine-D3	7.052	111	7922	0.0140	0.5812
Fentanyl	Fentanyl-D5	7.118	3084	312973	0.0099	0.5375
EDDP	EDDP-D3	7.229	2901	28419	0.1021	6.1495
Sufentanil	Sufentanil-D5	7.437	2429	187453	0.0130	0.6044
Quetiapine	Quetiapine-D8	7.438	36486	104353	0.3496	4.9538
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	12785	124968	0.1023	5.0330
Methadone	Methadone-D9	7.522	26810	311726	0.0860	5.0375
Fluoxetine	Fluoxetine-D6	7.564	27585	258537	0.1067	5.0762
Oxazepam	Oxazepam-D5	7.589	2094	22478	0.0932	4.7366
Sertraline	Sertraline-D3	7.625	6350	66927	0.0949	5.6795
Temazepam	Temazepam-D5	7.647	11242	117200	0.0959	5.4356

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

b cal 1

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	5164	33226	0.1554	4.7517
Diazepam	Diazepam-D5	7.790	7885	69217	0.1139	5.1020
Buprenorphine	Buprenorphine-D4	7.636	616	53922	0.0114	0.5096



ISP FORENSICS - Cd'A Instrument # 62340

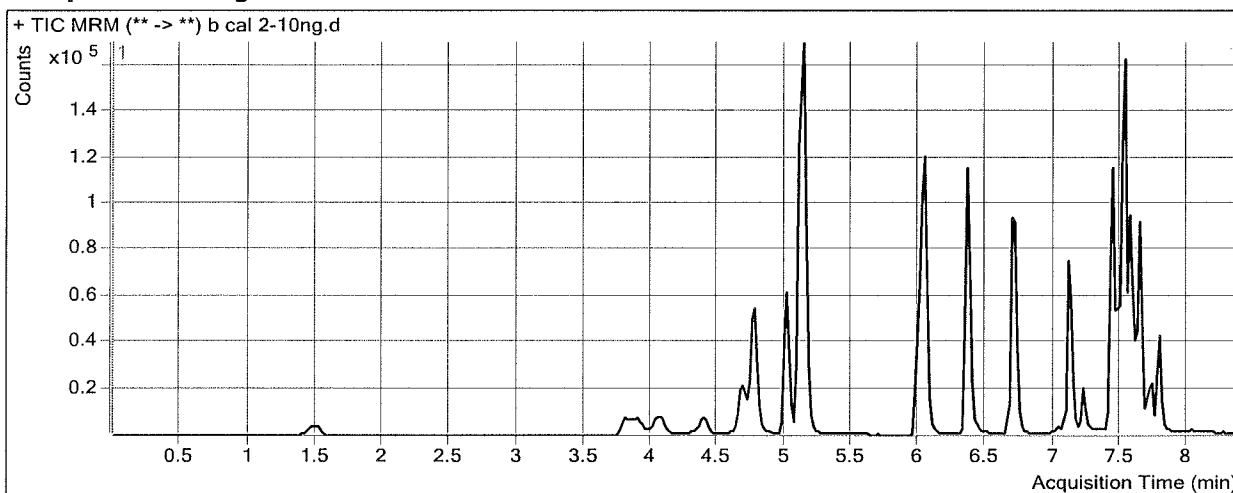
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 18:52 **Data File** b cal 2-10ng.d
Sample Type Calibration **Sample Name** b cal 2-10ng
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-B1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



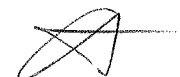
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.488	4996	22952	0.2177	9.5928
Dihydrocodeine	Dihydrocodeine-D6	3.915	9812	51402	0.1909	9.3879
Naloxone	Naloxone-D5	4.126	4236	43151	0.0982	8.5227
Noroxycodone	Noroxycodone-D3	4.419	6725	30199	0.2227	9.9626
Naltrexone	Naltrexone-D3	4.689	12239	60565	0.2021	9.7021
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	4559	201187	0.0227	1.0055
Naltrexol	Naltrexol-D3	5.009	35851	137820	0.2601	9.5435
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	91107	443900	0.2052	9.8976
Ketamine	Ketamine-D4	6.015	35021	144527	0.2423	9.9110
Norfentanyl	Norfentanyl-D5	6.060	5019	276567	0.0181	1.3432
alpha-PVP	alpha-PVP-d8	6.366	58188	248986	0.2337	9.9550
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	5498	291883	0.0188	0.9846
Norbuprenorphine	Norbuprenorphine-D3	7.032	194	6878	0.0282	1.2555
Fentanyl	Fentanyl-D5	7.118	3953	197069	0.0201	0.9826
EDDP	EDDP-D3	7.229	6027	32880	0.1833	9.6651
Sufentanil	Sufentanil-D5	7.437	2388	113795	0.0210	0.9574
Quetiapine	Quetiapine-D8	7.438	60263	83599	0.7209	9.8704
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	15835	72408	0.2187	9.9447
Methadone	Methadone-D9	7.522	50220	287655	0.1746	9.9646
Fluoxetine	Fluoxetine-D6	7.564	28149	137252	0.2051	9.6366
Oxazepam	Oxazepam-D5	7.589	5559	23090	0.2408	11.2190
Sertraline	Sertraline-D3	7.625	6353	31527	0.2015	10.4895
Temazepam	Temazepam-D5	7.647	24864	129379	0.1922	9.9842

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

b cal 2

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	10490	32874	0.3191	9.8708
Diazepam	Diazepam-D5	7.790	16023	70359	0.2277	9.7150
Buprenorphine	Buprenorphine-D4	7.656	545	45691	0.0119	0.5301



ISP FORENSICS - Cd'A Instrument # 62340

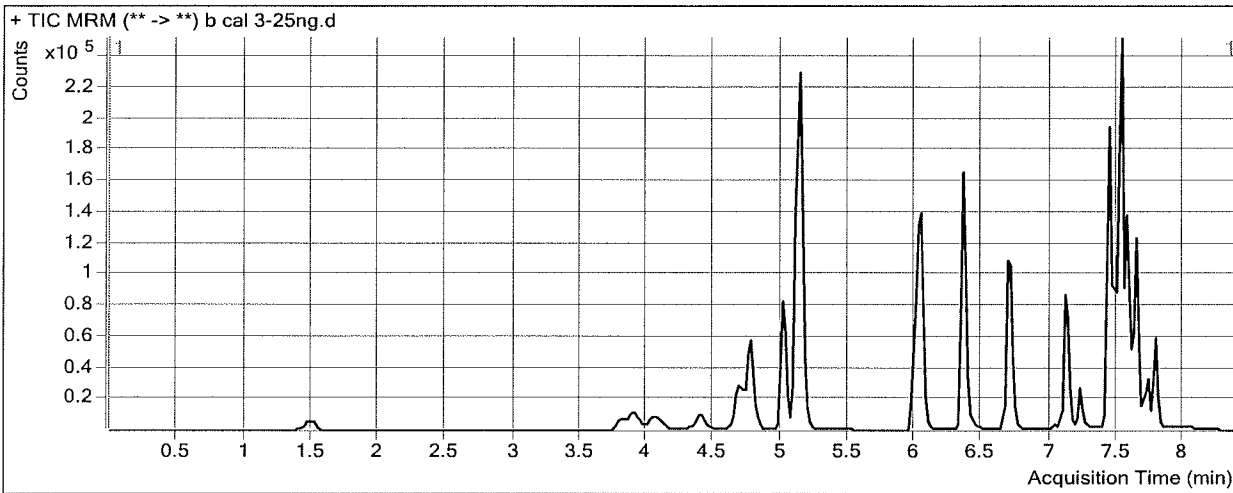
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 19:18 **Data File** b cal 3-25ng.d
Sample Type Calibration **Sample Name** b cal 3-25ng
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	13425	23537	0.5704	24.8454
Dihydrocodeine	Dihydrocodeine-D6	3.915	26518	53624	0.4945	26.1268
Naloxone	Naloxone-D5	4.126	14710	44699	0.3291	26.4895
Noroxycodone	Noroxycodone-D3	4.439	17507	31044	0.5640	24.5428
Naltrexone	Naltrexone-D3	4.709	32496	59094	0.5499	26.2377
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	11083	204135	0.0543	2.4030
Naltrexol	Naltrexol-D3	5.029	90834	138155	0.6575	25.7605
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	240258	461158	0.5210	25.6251
Ketamine	Ketamine-D4	6.015	92218	145788	0.6325	25.7539
Norfentanyl	Norfentanyl-D5	6.060	13775	288658	0.0477	2.7270
alpha-PVP	alpha-PVP-d8	6.366	158250	259660	0.6095	25.5447
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	15944	325792	0.0489	2.4786
Norbuprenorphine	Norbuprenorphine-D3	7.032	369	7174	0.0515	2.3619
Fentanyl	Fentanyl-D5	7.118	11707	217736	0.0538	2.4529
EDDP	EDDP-D3	7.229	16738	34440	0.4860	22.7645
Sufentanil	Sufentanil-D5	7.437	6753	133313	0.0507	2.2624
Quetiapine	Quetiapine-D8	7.438	167821	84152	1.9943	26.7360
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	44707	78196	0.5717	24.8447
Methadone	Methadone-D9	7.522	137141	309851	0.4426	24.8728
Fluoxetine	Fluoxetine-D6	7.564	85244	157772	0.5403	25.1728
Oxazepam	Oxazepam-D5	7.589	12161	22532	0.5397	24.3498
Sertraline	Sertraline-D3	7.625	18685	37279	0.5012	24.0055
Temazepam	Temazepam-D5	7.647	61577	129233	0.4765	23.4174

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

b cal 3

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	26109	31639	0.8252	25.6984
Diazepam	Diazepam-D5	7.790	43880	66748	0.6574	27.1295
Buprenorphine	Buprenorphine-D4	7.636	2829	48672	0.0581	2.4272



ISP FORENSICS - Cd'A Instrument # 62340

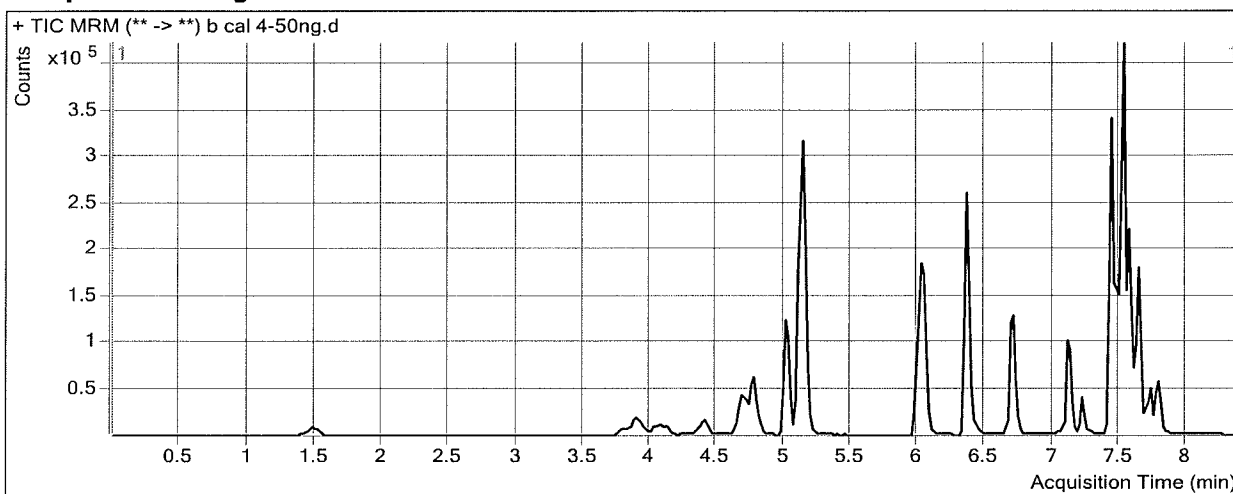
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin		
Analysis Time	10/26/2017 9:02 AM	Analyst Name	ISP Tox
Report Time	10/26/2017 9:07 AM	Reporter Name	ISP Tox
Last Calib Update	10/26/2017 9:02 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-24 19:43	Data File	b cal 4-50ng.d
Sample Type	Calibration	Sample Name	b cal 4-50ng
Dilution	1	Acq Method	Quant Panel 1b 10-2017.m
Position	P1-D1	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.488	27538	24053	1.1449	49.6894
Dihydrocodeine	Dihydrocodeine-D6	3.895	54800	56039	0.9779	52.7746
Naloxone	Naloxone-D5	4.126	29299	48848	0.5998	47.5547
Noroxycodone	Noroxycodone-D3	4.419	36035	31626	1.1394	49.1266
Naltrexone	Naltrexone-D3	4.709	65014	60762	1.0700	50.9628
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	23452	215467	0.1088	4.8131
Naltrexol	Naltrexol-D3	5.029	191584	144311	1.3276	53.1091
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	494423	480627	1.0287	50.9150
Ketamine	Ketamine-D4	6.015	199797	156416	1.2773	51.9320
Norfentanyl	Norfentanyl-D5	6.060	29131	306054	0.0952	4.9478
alpha-PVP	alpha-PVP-d8	6.366	342988	280779	1.2216	50.9404
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	35742	362177	0.0987	4.9477
Norbuprenorphine	Norbuprenorphine-D3	7.032	708	7958	0.0890	4.1476
Fentanyl	Fentanyl-D5	7.118	28213	258925	0.1090	4.8604
EDDP	EDDP-D3	7.229	38395	34109	1.1257	50.4462
Sufentanil	Sufentanil-D5	7.437	15820	141628	0.1117	4.9474
Quetiapine	Quetiapine-D8	7.438	355552	93316	3.8102	50.7874
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	113347	98324	1.1528	49.3685
Methadone	Methadone-D9	7.522	305344	352292	0.8667	48.4647
Fluoxetine	Fluoxetine-D6	7.564	204136	185216	1.1021	51.2136
Oxazepam	Oxazepam-D5	7.589	23097	20901	1.1051	49.1812
Sertraline	Sertraline-D3	7.625	42289	43696	0.9678	45.0495
Temazepam	Temazepam-D5	7.647	133861	134379	0.9961	47.9720

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

b cal 4

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	51088	31728	1.6102	50.2469
Diazepam	Diazepam-D5	7.810	51221	74235	0.6900	28.4504
Buprenorphine	Buprenorphine-D4	7.636	6035	56657	0.1065	4.4143



ISP FORENSICS - Cd'A Instrument # 62340

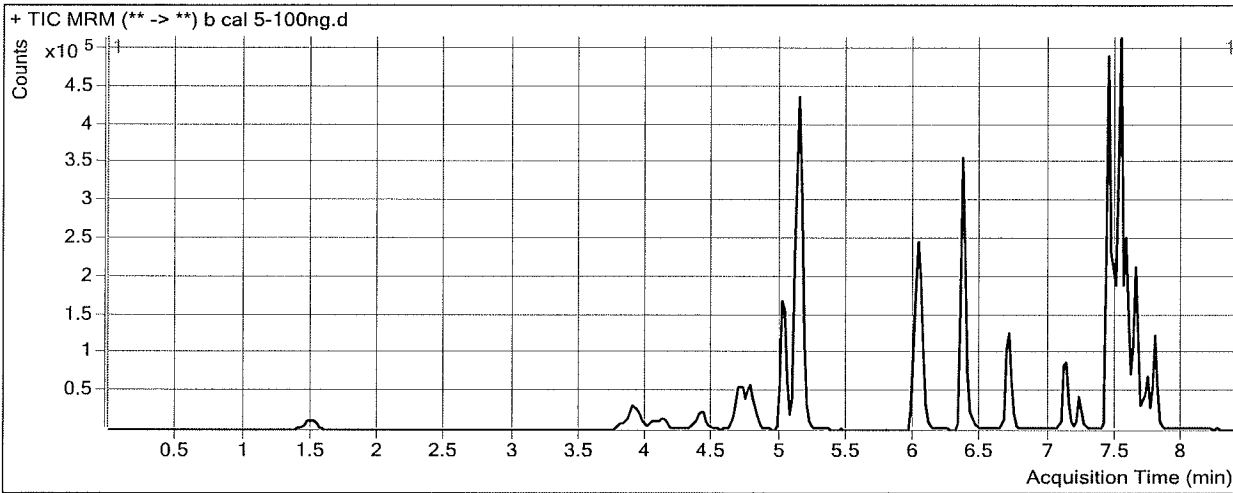
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 20:08 **Data File** b cal 5-100ng.d
Sample Type Calibration **Sample Name** b cal 5-100ng
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	49634	21506	2.3079	99.9779
Dihydrocodeine	Dihydrocodeine-D6	3.915	102840	52321	1.9655	107.2241
Naloxone	Naloxone-D5	4.126	52437	40354	1.2994	101.9920
Noroxycodone	Noroxycodone-D3	4.419	66419	28979	2.2919	98.3640
Naltrexone	Naltrexone-D3	4.709	105610	49714	2.1244	101.0893
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	44852	200494	0.2237	9.8880
Naltrexol	Naltrexol-D3	5.029	326842	122867	2.6601	107.4946
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	906103	442591	2.0473	101.6506
Ketamine	Ketamine-D4	6.015	356729	143072	2.4934	101.3005
Norfentanyl	Norfentanyl-D5	6.060	53428	273312	0.1955	9.6413
alpha-PVP	alpha-PVP-d8	6.366	579987	237562	2.4414	101.5508
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	59898	300866	0.1991	9.9309
Norbuprenorphine	Norbuprenorphine-D3	7.032	1149	6380	0.1801	8.4844
Fentanyl	Fentanyl-D5	7.118	45583	200560	0.2273	10.0211
EDDP	EDDP-D3	7.229	53138	26470	2.0075	88.6091
Sufentanil	Sufentanil-D5	7.437	24886	118594	0.2098	9.2641
Quetiapine	Quetiapine-D8	7.438	601642	77040	7.8095	103.7560
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	169324	73051	2.3179	98.5407
Methadone	Methadone-D9	7.522	461132	265739	1.7353	96.7764
Fluoxetine	Fluoxetine-D6	7.564	296000	139228	2.1260	98.6672
Oxazepam	Oxazepam-D5	7.589	34543	16048	2.1525	95.1846
Sertraline	Sertraline-D3	7.625	64920	30931	2.0989	96.0627
Temazepam	Temazepam-D5	7.647	209142	100515	2.0807	99.2174

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

b cal 5

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	84599	25253	3.3501	104.6581
Diazepam	Diazepam-D5	7.790	158042	61378	2.5749	104.8457
Buprenorphine	Buprenorphine-D4	7.636	8285	37149	0.2230	9.1981



ISP FORENSICS - Cd'A Instrument # 62340

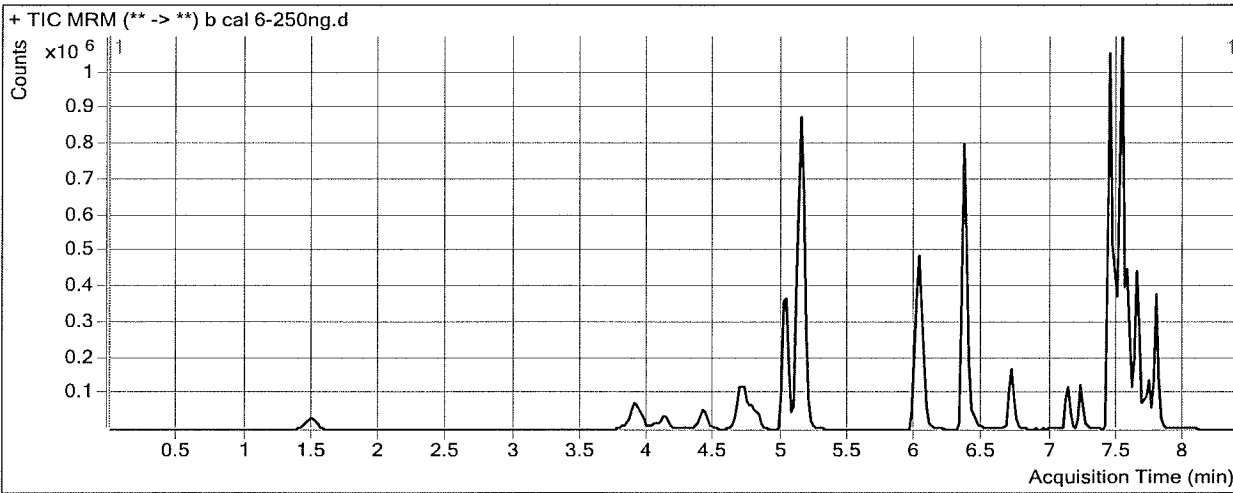
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin		
Analysis Time	10/26/2017 9:02 AM	Analyst Name	ISP Tox
Report Time	10/26/2017 9:07 AM	Reporter Name	ISP Tox
Last Calib Update	10/26/2017 9:02 AM	Batch State	Processed

Analysis Info

Acq Time	2017-10-24 20:34	Data File	b cal 6-250ng.d
Sample Type	Calibration	Sample Name	b cal 6-250ng
Dilution	1	Acq Method	Quant Panel 1b 10-2017.m
Position	P1-F1	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.488	136274	23386	5.8271	252.1553
Dihydrocodeine	Dihydrocodeine-D6	3.895	258822	53461	4.8413	265.7624
Naloxone	Naloxone-D5	4.126	146850	45297	3.2419	253.1391
Noroxycodone	Noroxycodone-D3	4.419	167324	29146	5.7408	245.7075
Naltrexone	Naltrexone-D3	4.709	266455	52330	5.0918	242.1647
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	114010	203673	0.5598	24.7353
Naltrexol	Naltrexol-D3	5.029	841587	130850	6.4317	261.4242
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	2283527	450166	5.0726	252.3463
Ketamine	Ketamine-D4	6.015	904952	148452	6.0959	247.5596
Norfentanyl	Norfentanyl-D5	6.060	138344	277637	0.4983	23.8108
alpha-PVP	alpha-PVP-d8	6.366	1556640	263502	5.9075	245.3551
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	137282	275322	0.4986	24.7978
Norbuprenorphine	Norbuprenorphine-D3	7.032	2986	6002	0.4975	23.5855
Fentanyl	Fentanyl-D5	7.118	97384	173765	0.5604	24.5527
EDDP	EDDP-D3	7.229	197468	35477	5.5661	242.6080
Sufentanil	Sufentanil-D5	7.437	58230	104830	0.5555	24.4665
Quetiapine	Quetiapine-D8	7.438	1479271	83583	17.6982	234.7277
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	358527	64260	5.5793	236.1869
Methadone	Methadone-D9	7.522	1165285	279362	4.1712	232.2735
Fluoxetine	Fluoxetine-D6	7.564	623435	116001	5.3744	249.2238
Oxazepam	Oxazepam-D5	7.589	82605	13766	6.0005	264.1905
Sertraline	Sertraline-D3	7.625	132451	24239	5.4644	247.8536
Temazepam	Temazepam-D5	7.647	563940	106264	5.3070	251.6607

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

b cal 6

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	187212	23434	7.9889	249.7246
Diazepam	Diazepam-D5	7.790	430044	70496	6.1003	247.7284
Buprenorphine	Buprenorphine-D4	7.636	23452	37393	0.6272	25.7938



ISP FORENSICS - Cd'A Instrument # 62340

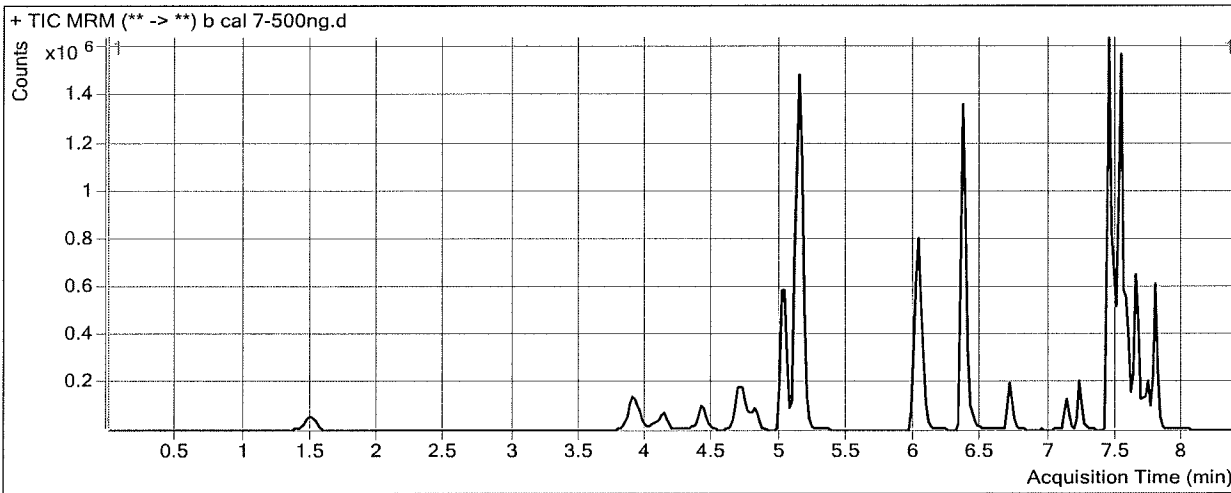
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 20:59 **Data File** b cal 7-500ng.d
Sample Type Calibration **Sample Name** b cal 7-500ng
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	269004	22770	11.8138	511.0339
Dihydrocodeine	Dihydrocodeine-D6	3.895	499116	52548	9.4984	522.5038
Naloxone	Naloxone-D5	4.126	275224	41828	6.5799	512.8707
Noroxycodone	Noroxycodone-D3	4.419	311650	26773	11.6403	497.7410
Naltrexone	Naltrexone-D3	4.709	441804	42765	10.3309	491.2354
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	225754	192668	1.1717	51.7718
Naltrexol	Naltrexol-D3	5.029	1479118	117164	12.6244	514.1657
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	4285178	428914	9.9908	497.3226
Ketamine	Ketamine-D4	6.015	1673438	139300	12.0132	487.7938
Norfentanyl	Norfentanyl-D5	6.060	266279	257235	1.0352	48.9326
alpha-PVP	alpha-PVP-d8	6.366	2852352	237830	11.9932	497.8448
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	213027	211227	1.0085	50.1053
Norbuprenorphine	Norbuprenorphine-D3	7.032	4481	4432	1.0111	48.0213
Fentanyl	Fentanyl-D5	7.118	136071	119174	1.1418	49.9095
EDDP	EDDP-D3	7.229	353153	30199	11.6942	507.8070
Sufentanil	Sufentanil-D5	7.437	81450	69035	1.1798	51.9290
Quetiapine	Quetiapine-D8	7.438	2423786	66886	36.2375	480.2714
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	510771	42660	11.9730	506.0307
Methadone	Methadone-D9	7.522	1748248	170410	10.2591	570.9014
Fluoxetine	Fluoxetine-D6	7.564	822462	79188	10.3862	481.5113
Oxazepam	Oxazepam-D5	7.589	148331	13002	11.4084	501.7049
Sertraline	Sertraline-D3	7.625	184387	16984	10.8565	491.0417
Temazepam	Temazepam-D5	7.647	938372	85881	10.9265	517.1837

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

b cal 7

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	287524	18377	15.6456	489.1734
Diazepam	Diazepam-D5	7.790	763185	63642	11.9919	486.5137
Buprenorphine	Buprenorphine-D4	7.636	33121	23155	1.4304	58.7774



ISP FORENSICS - Cd'A Instrument # 62340

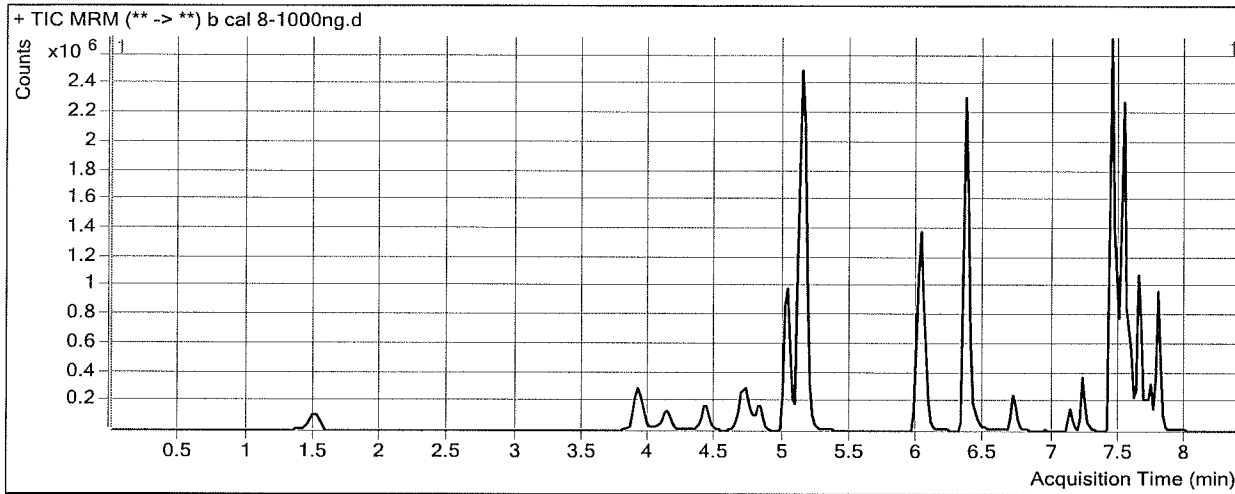
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2017 Data\102417 mdq p1\QuantResults\102417 mdq p1b.batch.bin
Analysis Time 10/26/2017 9:02 AM **Analyst Name** ISP Tox
Report Time 10/26/2017 9:07 AM **Reporter Name** ISP Tox
Last Calib Update 10/26/2017 9:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-10-24 21:25 **Data File** b cal 8-1000ng.d
Sample Type Calibration **Sample Name** b cal 8-1000ng
Dilution 1 **Acq Method** Quant Panel 1b 10-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.508	529651	23197	22.8331	987.5298
Dihydrocodeine	Dihydrocodeine-D6	3.915	896983	51877	17.2905	952.0791
Naloxone	Naloxone-D5	4.126	519042	39881	13.0147	1013.5721
Noroxycodone	Noroxycodone-D3	4.439	566556	23994	23.6125	1009.2138
Naltrexone	Naltrexone-D3	4.709	737320	35209	20.9411	995.6575
Acetyl Norfentanyl	Acetyl Norfentanyl-D5	4.824	457398	189962	2.4078	106.3842
Naltrexol	Naltrexol-D3	5.029	2541953	107466	23.6537	964.3035
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.139	7995774	399144	20.0323	997.4983
Ketamine	Ketamine-D4	6.015	3104128	130366	23.8110	966.7658
Norfentanyl	Norfentanyl-D5	6.060	502647	230715	2.1786	102.4405
alpha-PVP	alpha-PVP-d8	6.366	5127797	218145	23.5064	975.5138
Acetyl Fentanyl	Acetyl Fentanyl-D5	6.700	342165	169516	2.0185	100.2326
Norbuprenorphine	Norbuprenorphine-D3	7.032	6196	2790	2.2204	105.5627
Fentanyl	Fentanyl-D5	7.118	193138	83760	2.3059	100.6834
EDDP	EDDP-D3	7.229	637959	27329	23.3437	1011.9506
Sufentanil	Sufentanil-D5	7.437	115194	50905	2.2629	99.5688
Quetiapine	Quetiapine-D8	7.438	4287996	58984	72.6970	963.1607
Cyclobenzaprine	Cyclobenzaprine-D3	7.492	696073	27332	25.4673	1075.5505
Methadone	Methadone-D9	7.522	2668208	149475	17.8505	993.1669
Fluoxetine	Fluoxetine-D6	7.564	1069014	47495	22.5078	1043.3227
Oxazepam	Oxazepam-D5	7.589	289206	13224	21.8692	961.1465
Sertraline	Sertraline-D3	7.625	219875	9737	22.5807	1019.8180
Temazepam	Temazepam-D5	7.647	1683002	80797	20.8300	985.1289

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

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nordiazepam	Nordiazepam-D5	7.735	457613	14226	32.1681	1005.8760
Diazepam	Diazepam-D5	7.790	1331869	53174	25.0475	1015.6558
Buprenorphine	Buprenorphine-D4	7.636	40729	12316	3.3071	135.8388

