





**Worklist: 3550**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2019-1085	1	157499	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1097	1	157500	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1136	1	157501	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1148	1	157502	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1154	2	157503	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1175	1	157504	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1200	1	157505	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1217	1	157506	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1231	1	157507	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1252	1	157508	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1253	1	157509	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1267	1	157510	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1269	2	157511	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1273	1	157512	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1275	2	157513	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1284	1	157514	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1287	1	157515	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1299	1	157498	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

A

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

Extraction Date: 07/16/19 Analyst: Anne Nord  
 Plate lot#: 190124 (part IDP-111) Plate Expiration: 7/24/19

**Mobile phase A:** 5mM Amm Form + 0.01% FA 0.5M Ammonium Hydroxide  
**Mobile phase B:** 0.01% Formic Acid in MeOH Ethyl Acetate 20% Methanol in Water

**Blank Blood Lot:** bw103018

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

**LCMS-QQQ ID:** 69679

### Pre-Analytic:

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

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **250µL 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: *MassHunter|Data|2019\am28-27 0716019* Batch Name: *mdq*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS:

250

A 7/22/19

*Curves limited: amphetamine 5-500, benzoylecgonine 10-1000, clonazepam 5-500, dihydrocodeine 5-500, lorazepam 5-100 phentermine 5-250, quetiapine 5-500, trazodone 5-500.*



Toxicology AM method 28 panel 1 external prep information

working solution 10000 ng/ml in meoh amphetamine, dextromethorphan, methamphetamine, morphine, paroxetine, amitriptyline meperidine, doxepine, mirtazapine, 1000 ng/ml buprenorphine

Stock solution 1mg/ml (.1mg/ml buprenorphine ) 100 ul each in 9000 ul meOH

Ppd 3/14/19 Exp: 3/14/20 lot 31420 by AMN

Drug	lot	expiration
amphetamine	FE06011503	6/1/2020
dextromethorphan	FN07231501	7/1/2020
methamphetamine	FE08101708	10/1/2022
morphine	FE08141515	11/1/2020
buprenorphine	FE09211501	9/1/2020
paroxetine	FN05111505	6/1/2020
mirtazapine	FN04201503	4/1/2020
meperidine	FE01191502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
doxepin	FN01281502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
amitriptyline	FN07081401	9/1/2019 (this compound will not be evaluated in this control after 9/1/2019)

AM 28 control 50 ul working solution lot (31420) in 9950 ul blood lot (19A207P3)

ppd 3/14/19 Exp 3/14/2020 by AMN Concentration 50 ng/ml each (5 ng/ml buprenorphine)

# AM #28 Multi-Drug Quant. Results

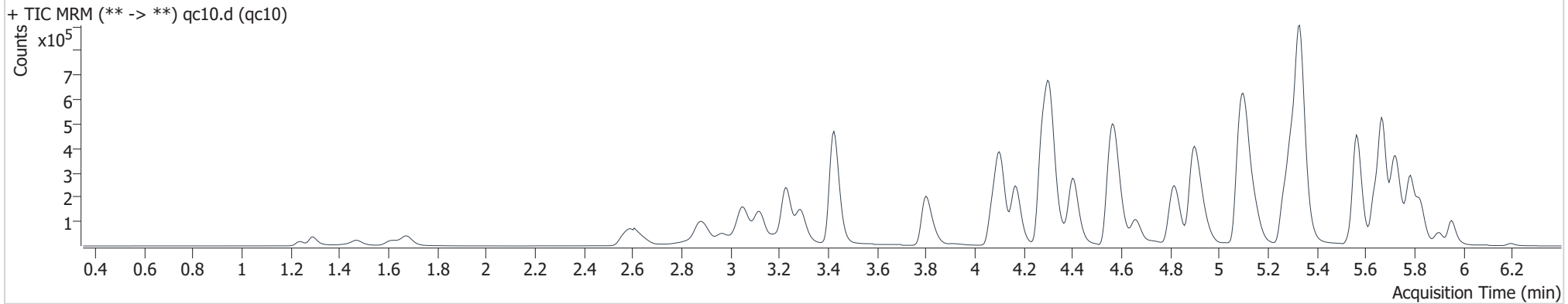
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
7/17/2019 4:28:23 PM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdq p1 cda 121818.m  
**Sample Position** P2-A6  
**Injection Volume** 2  
**Acq. Date-Time** 7/16/2019 2:28:42 PM  
**Sample Info.**

**Data File** qc10.d  
**Sample** qc10  
**Operator** Anne Nord  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	2127	306.1	78.3	2578.2	75793	0.884 ng/ml
7-aminoclonazepam	4.318	42730	1770.9	85.1	2579.6	172864	10.456 ng/ml
a-hydroxyalprazolam	5.714	3477	113.8	62.7	1214.8	19693	9.598 ng/ml
alpha-PVP	4.412	133538	4619.8	52.5	9444.5	584217	10.257 ng/ml
Alprazolam	5.787	57510	2216.1	109.9	3167.1	183211	10.295 ng/ml
Amphetamine	3.122	222711	2930.2	54.5	299.3	313309	10.841 ng/ml
Benzoylcegonine	3.941	3283	1934.5	9.5	24.5	12125	9.709 ng/ml
Buprenorphine	5.734	1401	57.6	18.2	177.8	58340	1.005 ng/ml
Bupropion	4.830	169371	649.8	59.8	3270.2	549935	11.074 ng/ml
Carisoprodol	5.738	47539	2932.8	59.5	145.1	228855	10.359 ng/ml
Citalopram	5.266	103563	265.2	46.7	5961.7	440944	10.281 ng/ml
Clonazepam	5.633	21820	165.7	33.0	4799.2	35317	10.506 ng/ml
Cocaine	4.307	108370	216.1	44.2	91.2	999311	9.985 ng/ml
Codeine	2.653	14444	45.5	106.6	541.1	67253	9.692 ng/ml
Cyclobenzaprine	5.640	99822	122008.0	10.3	410.5	383038	10.004 ng/ml
Dextromethorphan	5.311	67211	9240.7	74.9	20275.3	350736	9.400 ng/ml
Dextrorphan	4.171	44757	71.8	216.2	400.7	502058	10.626 ng/ml
Diazepam	5.957	33780	1678.2	88.8	3137.7	163570	10.058 ng/ml

qc10

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	37119	19576.4	65.3	4942.7	210250	10.278 ng/ml
Diphenhydramine	5.337	334881	4195.6	34.2	4991.8	1614732	10.486 ng/ml
Doxylamine	4.579	305164	11925.6	97.2	2361.3	1276371	10.240 ng/ml
EDDP	5.300	46105	3351.5	237.2	791.4	569699	9.598 ng/ml
Fentanyl	5.132	11266	226.6	77.0	9591.7	559152	0.969 ng/ml
Fluoxetine	5.721	116141	5181.6	8.7	10494.8	443201	9.626 ng/ml
Hydrocodone	3.084	42893	425.1	38.2	509.7	235533	9.222 ng/ml
Hydromorphone	1.683	28736	4787.9	68.4	658.3	104168	10.273 ng/ml
Ketamine	4.092	97050	3025.1	38.1	969.7	461680	10.090 ng/ml
Lamotrigine	4.340	11331	593.4	88.1	8490.1	350736	9.399 ng/ml
Lorazepam	5.761	9173	363.0	53.9	52.7	183211	11.783 ng/ml
Meprobamate	4.963	30127	431.5	30.2	68.0	141540	10.393 ng/ml
Methadone	5.669	181564	6894.9	47.7	354.1	863976	10.569 ng/ml
Methamphetamine	3.289	208053	1186.0	40.1	480.9	726105	10.581 ng/ml
Metoprolol	4.364	27483	1497.2	99.3	2640.5	1614732	9.827 ng/ml
Mirtazapine	4.660	184379	14395.5	46.9	13015.1	863976	9.575 ng/ml
Mitragynine	5.260	22184	28497.8	39.6	9090.0	863976	8.130 ng/ml
Morphine	1.242	7514	66029.9	23.8	12893.2	11023	9.070 ng/ml
Norbuprenorphine	5.039	471	487.3	99.9	483.6	15001	1.167 ng/ml
Nordiazepam	5.907	24636	3842.6	59.1	4293.1	80821	9.862 ng/ml
Norfentanyl	4.127	18575	328.3	40.5	496.4	796001	0.954 ng/ml
Norhydrocodone	3.130	2394	24.8	43.4	135.7	59235	7.970 ng/ml
Noroxycodone	2.987	33059	421.1	40.9	678.3	120611	9.853 ng/ml
O-desmethyl-tramadol	3.430	237853	7948.0	6.6	1239.2	1083124	10.258 ng/ml
Oxazepam	5.768	15451	345.9	73.4	124.0	63963	9.879 ng/ml
Oxycodone	2.905	76922	636.4	28.5	543.7	343981	9.395 ng/ml
Oxymorphone	1.475	20244	122398.6	43.8	41009.4	69745	9.990 ng/ml
Phentermine	3.838	63118	334.8	4.8	118.5	592196	10.309 ng/ml
Promethazine	5.568	165046	1452.0	32.8	2451.5	695935	10.179 ng/ml
Quetiapine	5.560	119820	8133.5	59.0	153677.9	165831	10.948 ng/ml
Sertraline	5.783	52881	180.4	100.4	68511.2	228816	10.462 ng/ml
Temazepam	5.829	56751	1197.3	32.6	266.1	273672	9.710 ng/ml
Tramadol	4.288	242706	12330.9	3.6	43.2	1137663	10.652 ng/ml
Trazodone	5.147	132582	8280.2	79.7	18176.1	520764	10.254 ng/ml
Venlafaxine	5.088	195544	4668.9	38.6	2150.4	994605	10.344 ng/ml
Zolpidem	4.919	227875	2670.1	31.4	5077.4	1033459	10.162 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results**

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin

**Calibration Last Update**

7/17/2019 4:28:23 PM

**Instrument**

69679

**Type**

QC

**Acq. Method**

mdq p1 cda 121818.m

**Sample Position**

P2-B6

**Injection Volume**

2

**Acq. Date-Time**

7/16/2019 2:39:30 PM

**Sample Info.****Data File**

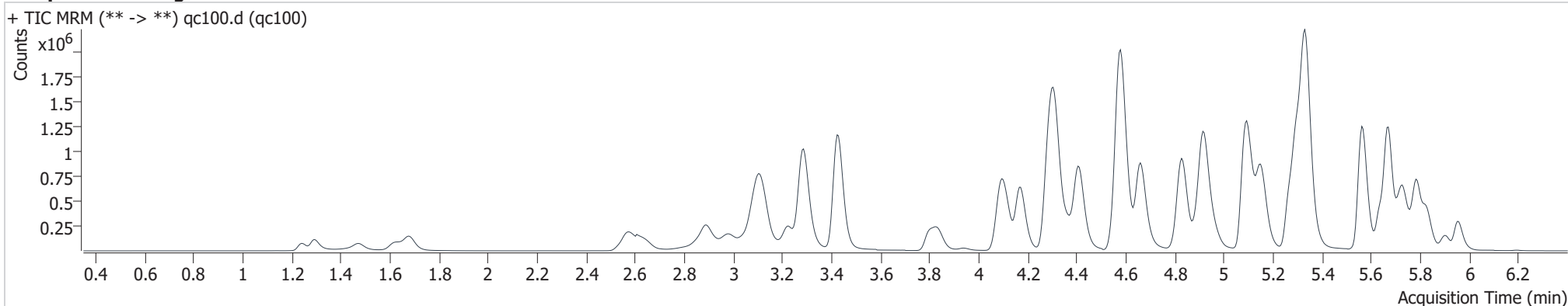
qc100.d

**Sample**

qc100

**Operator**

Anne Nord

**Comment****Sample Chromatogram**

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	20558	1983.0	74.6	2015.6	71864	8.726 ng/ml
7-aminoclonazepam	4.318	335407	20125.3	84.5	134.9	137656	109.434 ng/ml
a-hydroxyalprazolam	5.709	30248	1019.8	54.7	601.8	17816	98.061 ng/ml
alpha-PVP	4.412	1229024	17722.7	52.7	8529.2	539143	99.472 ng/ml
Alprazolam	5.787	475699	2674.8	111.7	4601.5	154724	101.451 ng/ml
Amphetamine	3.112	1799044	2401.5	52.7	9014.3	290038	105.277 ng/ml
Benzoyllecgonine	3.941	33184	37464.1	7.6	690.0	11608	104.717 ng/ml
Buprenorphine	5.734	11041	1126.7	16.7	2039.0	48764	10.072 ng/ml
Bupropion	4.830	1536552	353924.3	59.1	3699.0	505018	110.929 ng/ml
Carisoprodol	5.738	397464	125904.5	59.3	1158.8	194767	99.275 ng/ml
Citalopram	5.272	829832	57531.9	46.3	181553.7	365002	101.635 ng/ml
Clonazepam	5.633	164514	8220.9	34.5	2317.8	28649	106.259 ng/ml
Cocaine	4.307	960132	76786.6	43.8	85334.0	895680	98.849 ng/ml
Codeine	2.597	128895	22308.5	104.9	28952.7	62799	99.064 ng/ml
Cyclobenzaprine	5.640	554604	5650.6	10.3	1781.7	210161	99.211 ng/ml
Dextromethorphan	5.311	493680	235328.5	73.4	86439.9	252162	95.965 ng/ml
Dextrorphan	4.171	409925	219242.5	214.6	46866.4	458485	105.963 ng/ml
Diazepam	5.957	302786	5594.5	85.7	4553.9	147039	107.921 ng/ml

qc100

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# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.571	361491	1293.7	65.1	36649.2	204197	110.634 ng/ml
Diphenhydramine	5.337	2760762	50506.6	33.7	36321.2	1314282	98.553 ng/ml
Doxylamine	4.579	2947436	155453.7	96.9	16543.9	1231549	103.435 ng/ml
EDDP	5.300	479660	21235.4	232.1	25112.9	590736	92.961 ng/ml
Fentanyl	5.132	86065	2181.2	73.1	61474.6	421367	9.760 ng/ml
Fluoxetine	5.721	527822	20446.5	9.0	32519.2	205834	92.752 ng/ml
Hydrocodone	3.079	376902	42.1	37.1	1778.7	219345	111.755 ng/ml
Hydromorphone	1.678	350362	2612.8	78.9	13932.4	137968	92.476 ng/ml
Ketamine	4.092	907402	232772.5	37.8	1672.9	442949	102.604 ng/ml
Lamotrigine	4.345	94639	3089.0	87.8	1842.6	252162	113.409 ng/ml
Lorazepam	5.761	56903	1894.7	57.5	377.9	154724	91.968 ng/ml
Meprobamate	4.963	246612	29985.3	29.4	181.3	121975	98.386 ng/ml
Methadone	5.669	1491916	50182.2	45.9	5269.7	702309	102.633 ng/ml
Methamphetamine	3.289	1761358	1468.4	40.0	385.3	710643	110.094 ng/ml
Metoprolol	4.369	243812	47737.6	95.8	7346.7	1314282	109.131 ng/ml
Mirtazapine	4.660	1660244	193016.6	46.9	240946.1	702309	102.773 ng/ml
Mitragynine	5.260	169377	5558.2	38.5	86171.8	702309	82.462 ng/ml
Morphine	1.247	66431	118482.4	23.0	17848.1	9932	95.165 ng/ml
Norbuprenorphine	5.039	3235	2924.0	98.0	4169.4	13246	10.879 ng/ml
Nordiazepam	5.907	189145	9820.3	60.6	54854.8	64095	98.304 ng/ml
Norfentanyl	4.132	179840	31478.9	41.1	3748.4	735376	9.212 ng/ml
Norhydrocodone	3.125	38406	3163.2	42.0	2456.0	61928	90.426 ng/ml
Noroxycodone	2.977	288978	895.1	41.7	3435.5	109010	100.995 ng/ml
O-desmethyl-tramadol	3.430	2252899	129780.9	6.4	241.0	1019400	98.515 ng/ml
Oxazepam	5.768	86802	2633.8	70.0	655.3	35592	107.123 ng/ml
Oxycodone	2.889	677841	5308.1	29.3	2943.7	321896	101.164 ng/ml
Oxymorphone	1.470	179432	3879.0	44.4	386337.5	64015	107.009 ng/ml
Phentermine	3.838	524761	1753.7	4.6	706.7	551794	98.770 ng/ml
Promethazine	5.568	913086	15942.2	31.6	5890.7	376454	98.274 ng/ml
Quetiapine	5.560	1071480	1615567.5	58.6	651219.2	152457	112.505 ng/ml
Sertraline	5.783	198312	6980.4	101.0	20456.4	91490	97.878 ng/ml
Temazepam	5.829	474360	10748.6	30.7	1756.9	227250	96.014 ng/ml
Tramadol	4.288	2149331	95257.5	3.5	2288.5	1086721	106.338 ng/ml
Trazodone	5.153	1175724	89098.7	79.2	110490.1	467210	97.661 ng/ml
Venlafaxine	5.088	1865147	5303.4	37.9	16765.5	930440	98.673 ng/ml
Zolpidem	4.919	2227087	152355.7	30.3	3145.5	1010671	104.808 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results**

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin

**Calibration Last Update**

7/17/2019 4:28:23 PM

**Instrument**

69679

**Data File**

qc-250.d

**Type**

QC

**Sample**

qc-250

**Acq. Method**

mdq p1 cda 121818.m

**Operator**

Anne Nord

**Sample Position**

P2-C6

**Comment**

**Injection Volume**

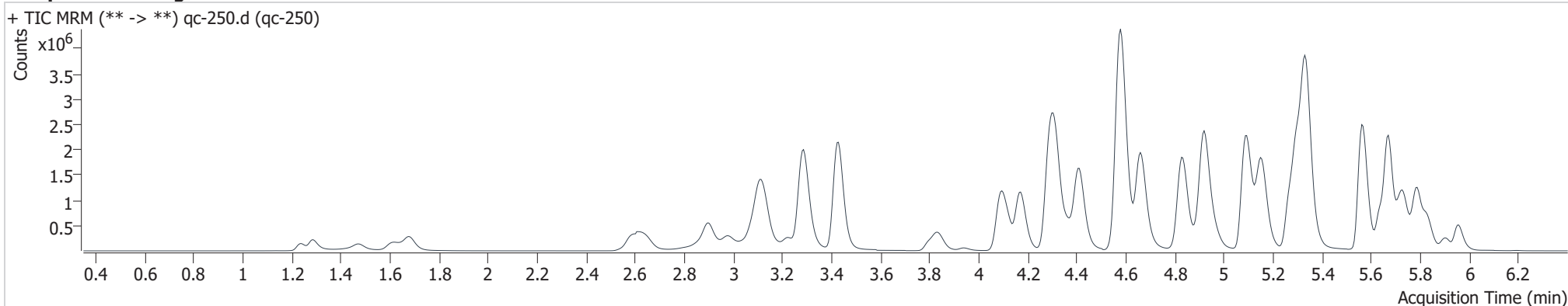
2

**Acq. Date-Time**

7/16/2019 2:50:19 PM

**Sample Info.**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	49806	46625.8	74.2	1875.0	65561	23.121 ng/ml
7-aminoclonazepam	4.318	532004	8478.2	84.1	9920.2	95076	252.247 ng/ml
a-hydroxyalprazolam	5.709	59671	1300.7	56.6	1353.0	14482	238.933 ng/ml
alpha-PVP	4.412	2773655	87085.9	51.9	75034.5	489999	246.537 ng/ml
Alprazolam	5.787	935276	3167.1	110.0	5051.9	122822	251.375 ng/ml
Amphetamine	3.117	3163951	15824.5	52.8	8748.0	259219	208.498 ng/ml
Benzoylcegonine	3.941	78944	105978.8	7.9	440.2	11395	254.105 ng/ml
Buprenorphine	5.734	21927	20949.9	16.3	2420.3	38394	25.514 ng/ml
Bupropion	4.835	3380690	484429.1	59.2	2742.2	459949	268.223 ng/ml
Carisoprodol	5.738	775152	874118.3	58.5	7045.0	150361	250.358 ng/ml
Citalopram	5.272	1759721	922.1	45.8	125290.3	312645	251.977 ng/ml
Clonazepam	5.633	297710	8071.8	34.9	76313.1	22525	245.913 ng/ml
Cocaine	4.312	2019588	144478.7	43.5	505.1	759636	245.186 ng/ml
Codeine	2.648	266885	1869.2	104.0	292.1	54246	238.510 ng/ml
Cyclobenzaprine	5.640	1262447	34717.3	10.3	1888.5	193415	245.049 ng/ml
Dextromethorphan	5.311	955339	16187.3	77.0	109539.3	201520	232.364 ng/ml
Dextrorphan	4.172	905683	382012.0	216.9	70332.2	416825	257.417 ng/ml
Diazepam	5.957	616599	8550.8	86.4	5135.8	123459	262.959 ng/ml

qc-250



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.591	776539	1534.5	65.1	55582.0	193873	251.372 ng/ml
Diphenhydramine	5.341	5805099	53363.6	33.5	18864.8	1095522	247.332 ng/ml
Doxylamine	4.579	6874439	281707.0	97.2	29268.1	1170256	254.032 ng/ml
EDDP	5.300	1072452	395275.2	236.5	4957.9	531012	230.674 ng/ml
Fentanyl	5.132	184792	34707.9	76.1	158579.0	370636	23.815 ng/ml
Fluoxetine	5.721	1306978	7041.3	8.6	64789.0	205076	230.275 ng/ml
Hydrocodone	3.079	848265	779.3	39.6	1844.8	207257	270.242 ng/ml
Hydromorphone	1.678	572161	163210.5	73.2	2347.3	83556	248.930 ng/ml
Ketamine	4.092	2028708	401635.3	37.6	1724.6	410220	248.389 ng/ml
Lamotrigine	4.345	188010	1151.3	87.3	970.2	201520	282.508 ng/ml
Lorazepam	5.761	92342	2890.9	55.4	901.3	122822	<del>188.902</del> ng/ml ocr
Meprobamate	4.968	497294	496492.0	29.5	9000.9	98917	244.585 ng/ml
Methadone	5.669	3245671	110611.9	46.3	45042.0	617103	253.426 ng/ml
Methamphetamine	3.289	3530118	3207.9	39.2	6468.0	633607	250.506 ng/ml
Metoprolol	4.369	485140	1096.0	96.8	155854.9	1095522	260.795 ng/ml
Mirtazapine	4.660	3764123	3494.4	46.2	143576.7	617103	264.662 ng/ml
Mitragynine	5.260	348969	5860.7	38.6	147680.6	617103	194.335 ng/ml
Morphine	1.242	141250	176885.8	23.4	108.9	8595	234.853 ng/ml
Norbuprenorphine	5.039	7389	7335.1	100.8	16369.9	12590	26.516 ng/ml
Nordiazepam	5.907	353314	411632.2	60.3	4412.8	49644	237.539 ng/ml
Norfentanyl	4.132	410060	2861.4	40.3	1186.2	631060	24.338 ng/ml
Norhydrocodone	3.130	93697	335.8	41.0	761.5	55992	240.225 ng/ml
Noroxycodone	2.977	603324	605.4	42.8	345.9	94698	243.646 ng/ml
O-desmethyl-tramadol	3.430	5185400	322755.6	6.3	26996.6	917759	251.050 ng/ml
Oxazepam	5.768	116860	3286.5	73.0	539.9	20647	249.685 ng/ml
Oxycodone	2.900	1594725	2185.2	29.1	3229.1	307274	251.537 ng/ml
Oxymorphone	1.470	393684	1330798.5	44.2	6498.0	57927	261.195 ng/ml
Phentermine	3.838	1014410	2794.1	4.5	2667.9	494033	214.248 ng/ml
Promethazine	5.568	2136527	3834325.8	31.2	23408.6	356367	241.982 ng/ml
Quetiapine	5.560	2321088	2047173.4	59.8	1103500.5	144117	258.707 ng/ml
Sertraline	5.782	447368	11915.7	102.3	18857.6	80472	250.987 ng/ml
Temazepam	5.829	928428	33861.4	30.6	2184.4	176309	241.927 ng/ml
Tramadol	4.288	4641705	3716.8	3.4	354.9	967190	259.339 ng/ml
Trazodone	5.153	2746650	175509.2	78.4	30900.9	405256	262.324 ng/ml
Venlafaxine	5.088	4214600	393639.5	38.5	3788.4	842728	245.071 ng/ml
Zolpidem	4.919	5064064	283199.3	30.3	121738.1	948728	254.392 ng/ml

ocr=outside curve range

# AM #28 Multi-Drug Quant. Results

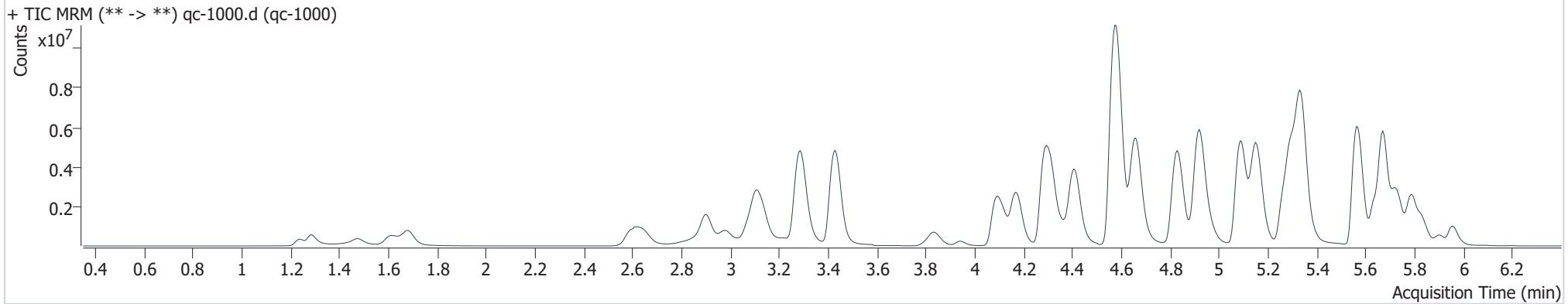
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
7/17/2019 4:28:23 PM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdq p1 cda 121818.m  
**Sample Position** P2-D6  
**Injection Volume** 2  
**Acq. Date-Time** 7/16/2019 3:01:08 PM  
**Sample Info.**

**Data File** qc-1000.d  
**Sample** qc-1000  
**Operator** Anne Nord  
**Comment**

**Sample Chromatogram**



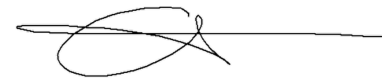
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	168742	137892.1	74.5	4292.4	53385	96.102 ng/ml
7-aminoclonazepam	4.318	560170	11505.9	84.5	29531.6	27855	908.426 ng/ml
a-hydroxyalprazolam	5.714	142226	1809.9	59.2	3679.8	8388	985.329 ng/ml
alpha-PVP	4.412	7823593	673228.9	51.8	664278.6	336403	1011.935 ng/ml
Alprazolam	5.787	2115228	3824.1	109.4	23188.7	68413	1020.869 ng/ml
Amphetamine	3.117	6464329	8492.0	52.4	122084.8	197733	<del>560.769</del> ng/ml
Benzoylcegonine	3.941	360095	930.7	7.9	144.8	11638	1135.660 ng/ml
Buprenorphine	5.739	42024	7171.5	16.9	3062.4	20393	92.247 ng/ml
Bupropion	4.830	10034818	1815874.8	58.8	7124.7	368784	993.439 ng/ml
Carisoprodol	5.744	1511517	992316.8	57.8	11354.1	70856	1035.076 ng/ml
Citalopram	5.266	4179543	97438.9	46.3	316571.6	184701	1013.779 ng/ml
Clonazepam	5.628	446049	85884.2	34.1	213478.6	11551	<del>720.504</del> ng/ml
Cocaine	4.312	4726356	1337958.5	42.9	364.9	427640	1019.316 ng/ml
Codeine	2.648	682802	3537.3	105.0	2107.6	35406	937.106 ng/ml
Cyclobenzaprine	5.640	4056900	238076.3	10.0	2934.6	151456	1004.921 ng/ml
Dextromethorphan	5.311	2107843	54121.1	76.5	942879.4	107986	956.727 ng/ml
Dextrorphan	4.172	2569440	176592.2	218.4	317073.4	288702	1054.187 ng/ml
Diazepam	5.957	1439841	8077.1	85.7	20002.2	74989	1013.358 ng/ml

qc-1000

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.601	2193807	7853.1	65.3	2715.4	170986	<del>807.059</del> ng/ml	ocr A
Diphenhydramine	5.337	14309674	376744.0	33.2	7163.1	651405	1022.710 ng/ml	
Doxylamine	4.579	20178635	4981.8	97.4	1164930.1	963322	906.105 ng/ml	
EDDP	5.300	3213782	8674.7	241.5	17015.5	396593	924.432 ng/ml	
Fentanyl	5.127	634368	4633.6	81.4	425.7	303255	99.896 ng/ml	
Fluoxetine	5.721	4190428	107278.0	8.4	192265.8	163906	923.265 ng/ml	
Hydrocodone	3.079	2626515	3030.8	39.8	1595.5	178573	978.772 ng/ml	
Hydromorphone	1.683	1801082	3635.5	73.5	493708.6	65039	1005.914 ng/ml	
Ketamine	4.092	5647067	11119.8	37.0	18586.5	319255	889.671 ng/ml	
Lamotrigine	4.340	331985	18918.1	87.4	17576.5	107986	931.844 ng/ml	
Lorazepam	5.761	182599	4525.6	57.7	3832.1	68413	<del>672.797</del> ng/ml	ocr A
Meprobamate	4.968	1228574	449.2	29.5	167084.7	51432	1161.983 ng/ml	
Methadone	5.669	10069087	216497.2	45.4	262511.2	462769	1046.957 ng/ml	
Methamphetamine	3.288	9540800	5645.0	38.3	13703.4	587920	734.291 ng/ml	
Metoprolol	4.369	979541	8211.3	97.1	95551.5	651405	886.062 ng/ml	
Mirtazapine	4.662	11664295	5571.6	45.8	219703.2	462769	1092.630 ng/ml	
Mitragynine	5.255	1108064	1867042.7	39.2	5202.5	462769	825.202 ng/ml	
Morphine	1.242	380686	2345592.3	23.4	735150.2	5981	911.629 ng/ml	
Norbuprenorphine	5.039	26571	6548.8	96.1	12329.8	11495	105.223 ng/ml	
Nordiazepam	5.907	769061	23285.8	61.1	50226.4	28395	904.897 ng/ml	
Norfentanyl	4.132	1225189	131154.2	40.6	25202.0	386253	118.484 ng/ml	
Norhydrocodone	3.130	284406	655.4	41.8	15.1	37758	1073.531 ng/ml	
Noroxycodone	2.977	1719822	874.7	40.9	202.5	67904	970.546 ng/ml	
O-desmethyl-tramadol	3.431	14604023	167322.1	6.1	1191.1	632573	1024.208 ng/ml	
Oxazepam	5.763	190002	3432.6	73.1	2692.5	8366	1004.283 ng/ml	
Oxycodone	2.900	5251530	∞	29.0	8948.0	262671	973.285 ng/ml	
Oxymorphone	1.475	1217671	4966.8	43.7	3843.3	47054	997.984 ng/ml	
Phentermine	3.838	2401909	4788.7	4.4	1186.6	404465	<del>621.255</del> ng/ml	ocr A
Promethazine	5.568	7752376	4575505.6	30.5	439298.0	308470	1012.349 ng/ml	
Quetiapine	5.555	5352478	545341.3	57.3	4945.8	115756	<del>744.040</del> ng/ml	ocr A
Sertraline	5.788	1219613	787660.0	102.0	113237.7	53978	1019.993 ng/ml	
Temazepam	5.829	2170402	52430.3	30.3	8223.7	98314	1013.620 ng/ml	
Tramadol	4.283	11420077	426747.1	3.3	15209.4	698793	885.331 ng/ml	
Trazodone	5.153	8609617	445051.2	78.0	1686914.6	265046	<del>1255.690</del> ng/ml	ocr A
Venlafaxine	5.088	12283705	682684.2	37.6	524423.9	587439	1022.333 ng/ml	
Zolpidem	4.919	14735040	800850.4	29.8	144879.6	785722	894.685 ng/ml	

# AM #28 Multi-Drug Quant. Results



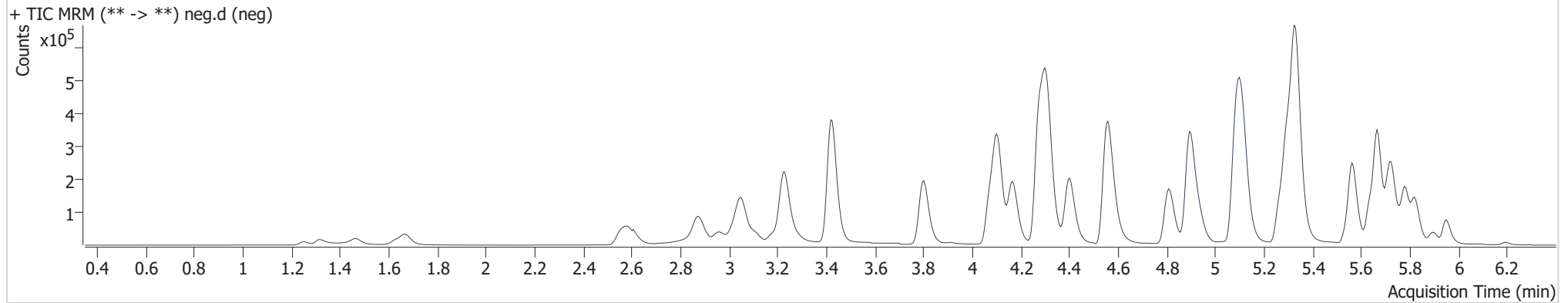
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
7/17/2019 4:28:23 PM

**Instrument Type** 69679  
**Acq. Method** Sample  
**Sample Position** mdq p1 cda 121818.m  
**Injection Volume** P2-E6  
**Acq. Date-Time** 2  
**Sample Info.** 7/16/2019 3:43:58 PM

**Data File** neg.d  
**Sample** neg  
**Operator** Anne Nord  
**Comment**

## Sample Chromatogram



# AM #28 Multi-Drug Quant. Results

**Batch results**

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin

**Calibration Last Update**

7/17/2019 4:28:23 PM

**Instrument**

69679

**Type**

Sample

**Acq. Method**

mdq p1 cda 121818.m

**Sample Position**

P2-F6

**Injection Volume**

2

**Acq. Date-Time**

7/16/2019 3:54:48 PM

**Sample Info.****Data File**

external control.d

**Sample**

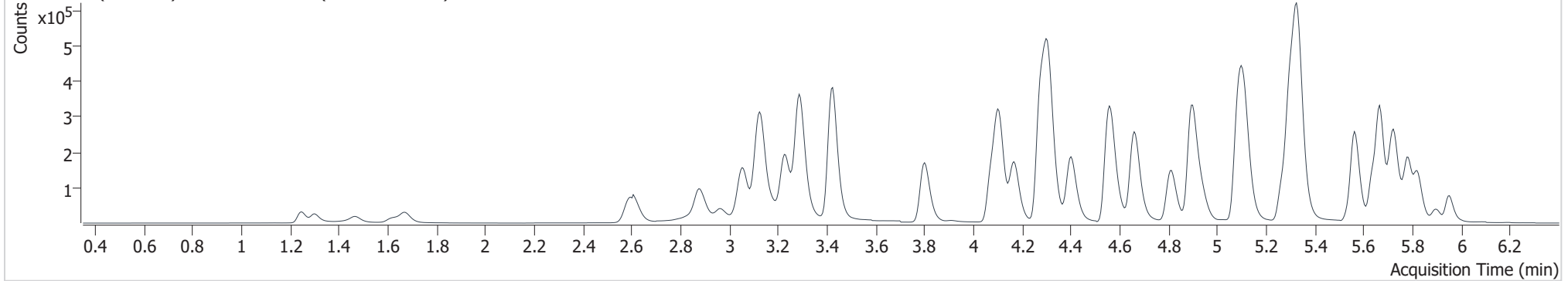
external control

**Operator**

Anne Nord

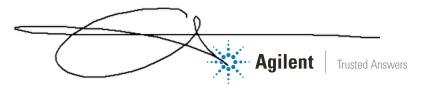
**Comment****Sample Chromatogram**

+ TIC MRM (\*\* -&gt; \*\*) external control.d (external control)



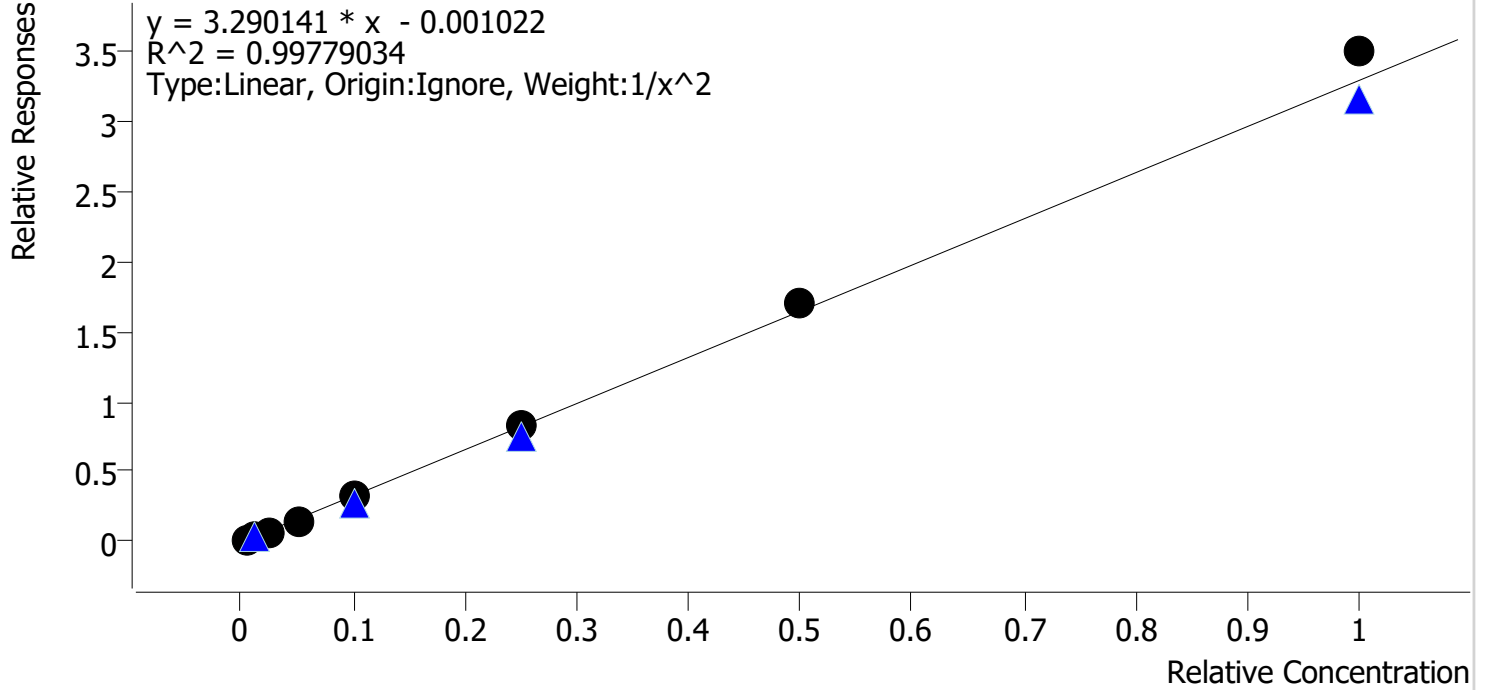
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.127	607268	1161.6	54.3	908.3	266179	37.848 ng/ml
Buprenorphine	5.739	4122	362.5	15.9	430.6	52573	3.442 ng/ml
Dextromethorphan	5.311	203486	18462.9	77.1	182646.1	244348	40.824 ng/ml
Methamphetamine	3.289	570248	2367.5	39.5	200.5	561552	43.674 ng/ml
Mirtazapine	4.660	516114	116871.8	47.2	4265.6	693948	32.558 ng/ml
Morphine	1.252	24528	142751.4	22.8	25295.2	9619	35.849 ng/ml

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

6-MAM - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

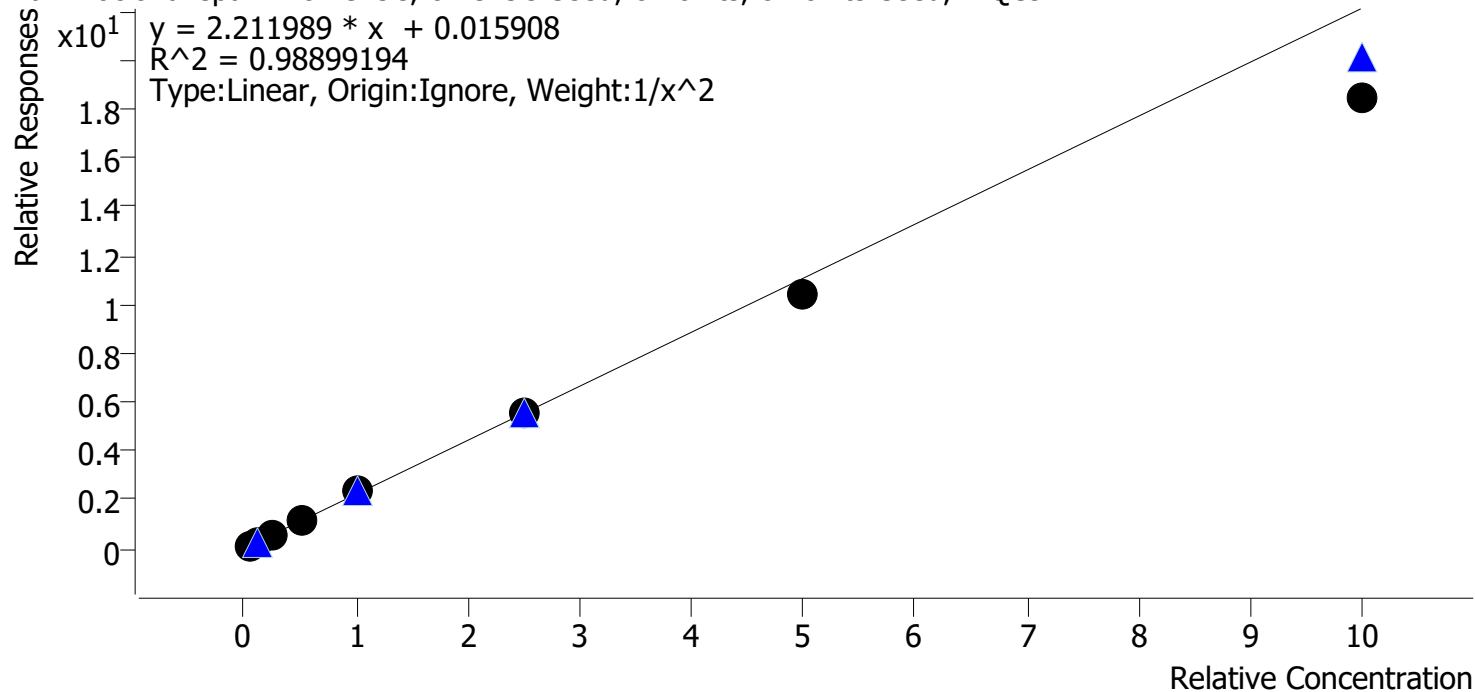


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	100.8
cal 2	2	✓	1.0	1.0	101.9
cal 3	3	✓	2.5	2.3	93.3
cal 4	4	✓	5.0	4.8	95.6
cal 5	5	✓	10.0	9.9	99.0
cal 6	6	✓	25.0	25.0	100.1
cal 7	7	✓	50.0	51.5	103.0
cal 8	8	✓	100.0	106.2	106.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

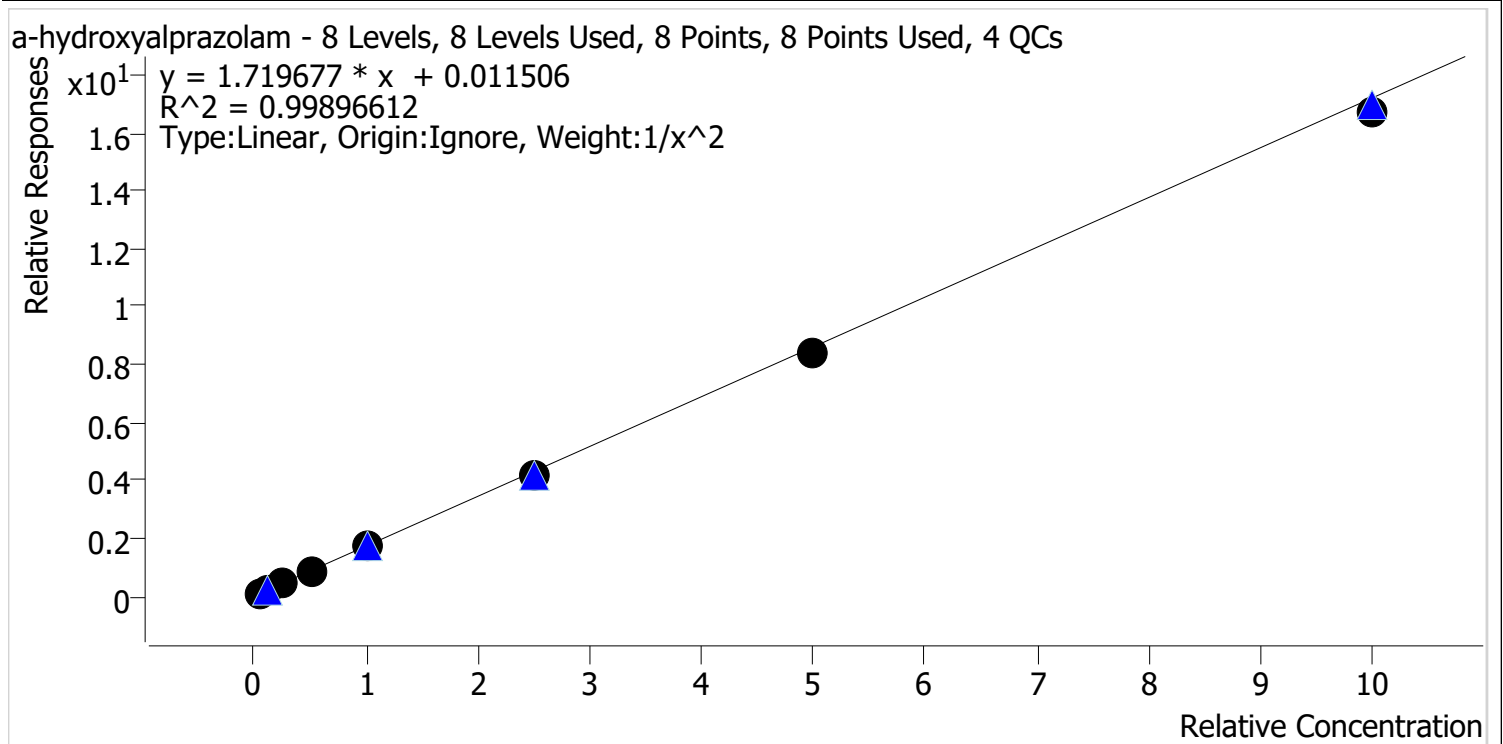


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.9
cal 2	2	✓	10.0	10.8	107.6
cal 3	3	✓	25.0	26.8	107.2
cal 4	4	✓	50.0	53.3	106.6
cal 5	5	✓	100.0	108.6	108.6
cal 6	6	✓	250.0	247.9	99.1
cal 7	7	✓	500.0	469.1	93.8
cal 8	8	✓	1000.0	831.7	83.2

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	7/17/2019 4:28 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	a-hydroxyalprazolam	<b>Internal Standard</b>	a-hydroxyalprazolam-D5

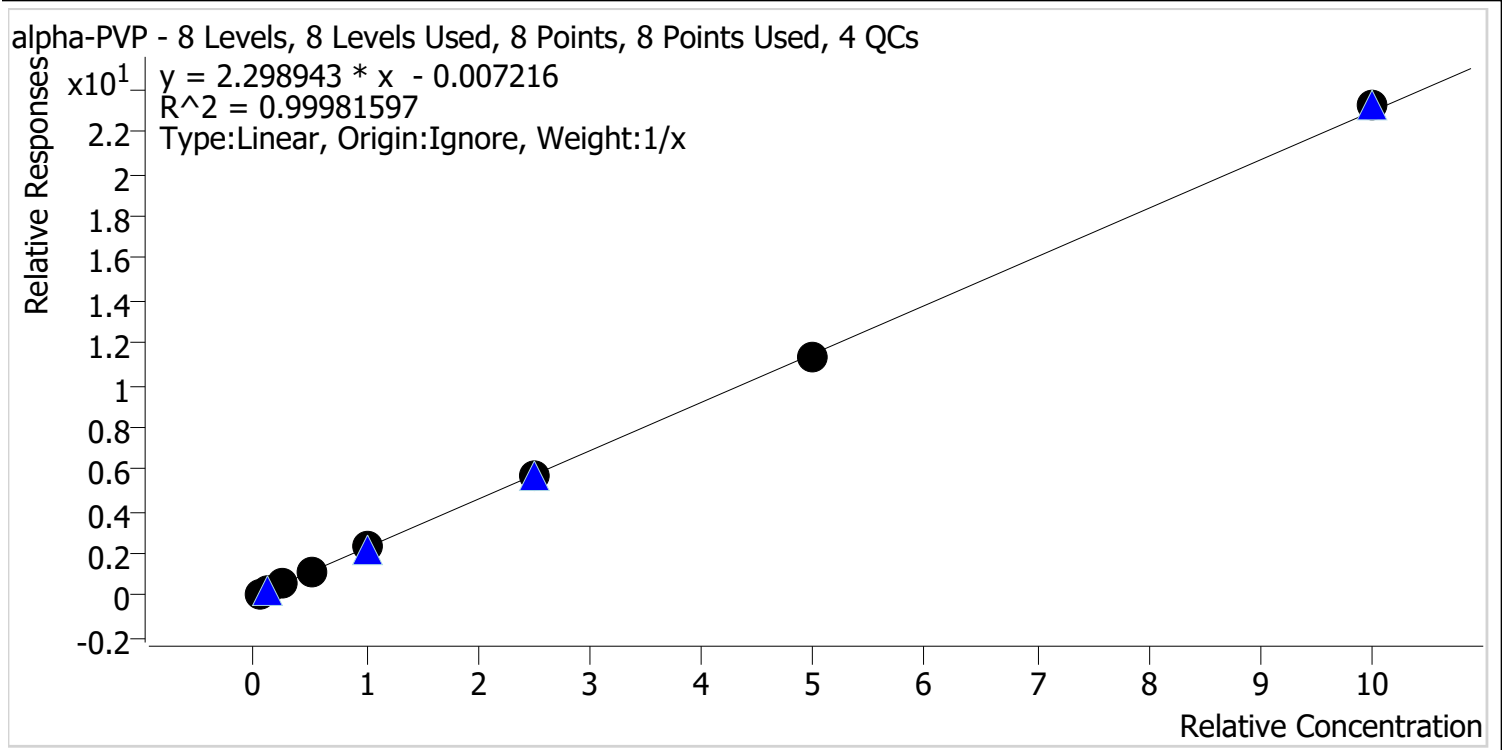


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.8
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	25.0	25.2	101.0
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	103.8	103.8
cal 6	6	✓	250.0	244.9	98.0
cal 7	7	✓	500.0	485.8	97.2
cal 8	8	✓	1000.0	973.2	97.3



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8

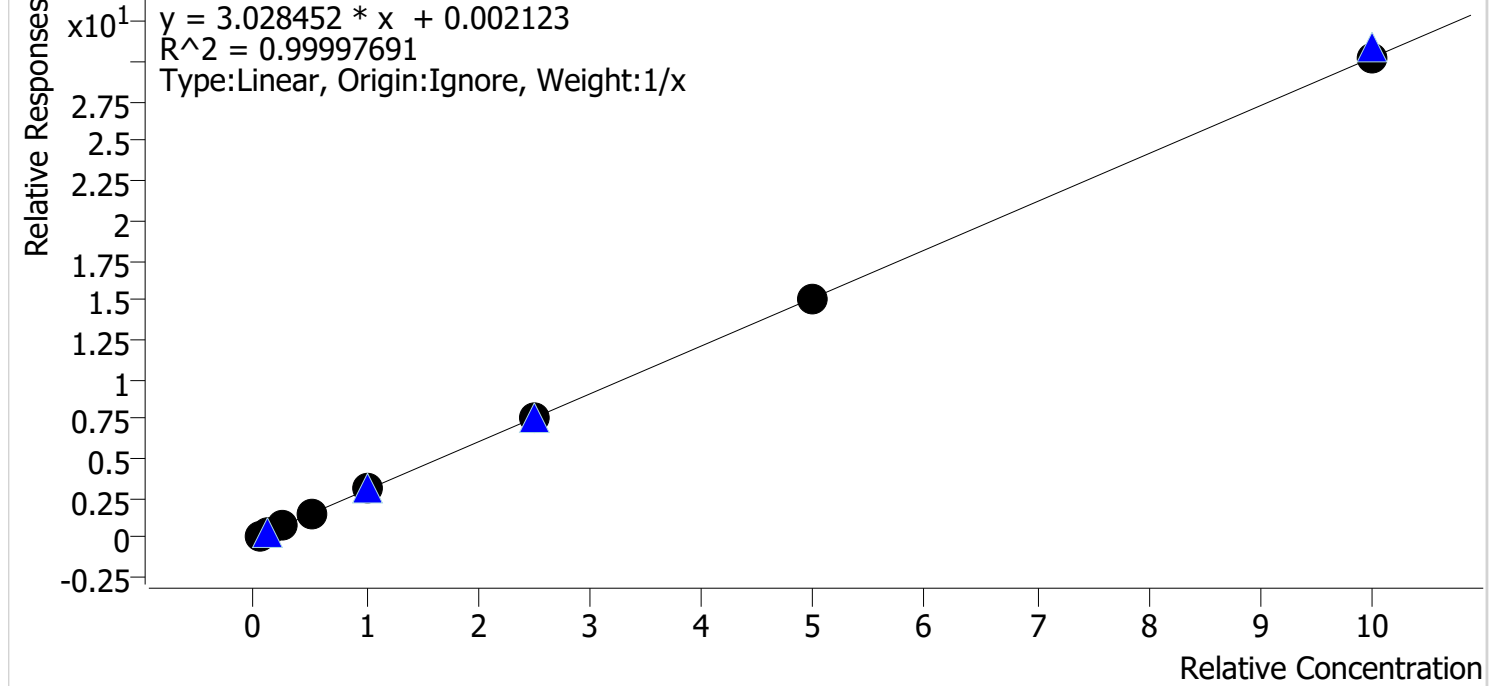


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.9
cal 2	2	✓	10.0	10.3	102.9
cal 3	3	✓	25.0	24.6	98.3
cal 4	4	✓	50.0	48.5	97.0
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	245.4	98.2
cal 7	7	✓	500.0	495.3	99.1
cal 8	8	✓	1000.0	1011.2	101.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

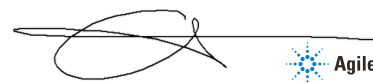


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.4
cal 2	2	✓	10.0	10.3	103.4
cal 3	3	✓	25.0	24.8	99.3
cal 4	4	✓	50.0	49.0	98.0
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	249.1	99.6
cal 7	7	✓	500.0	499.7	99.9
cal 8	8	✓	1000.0	1001.9	100.2





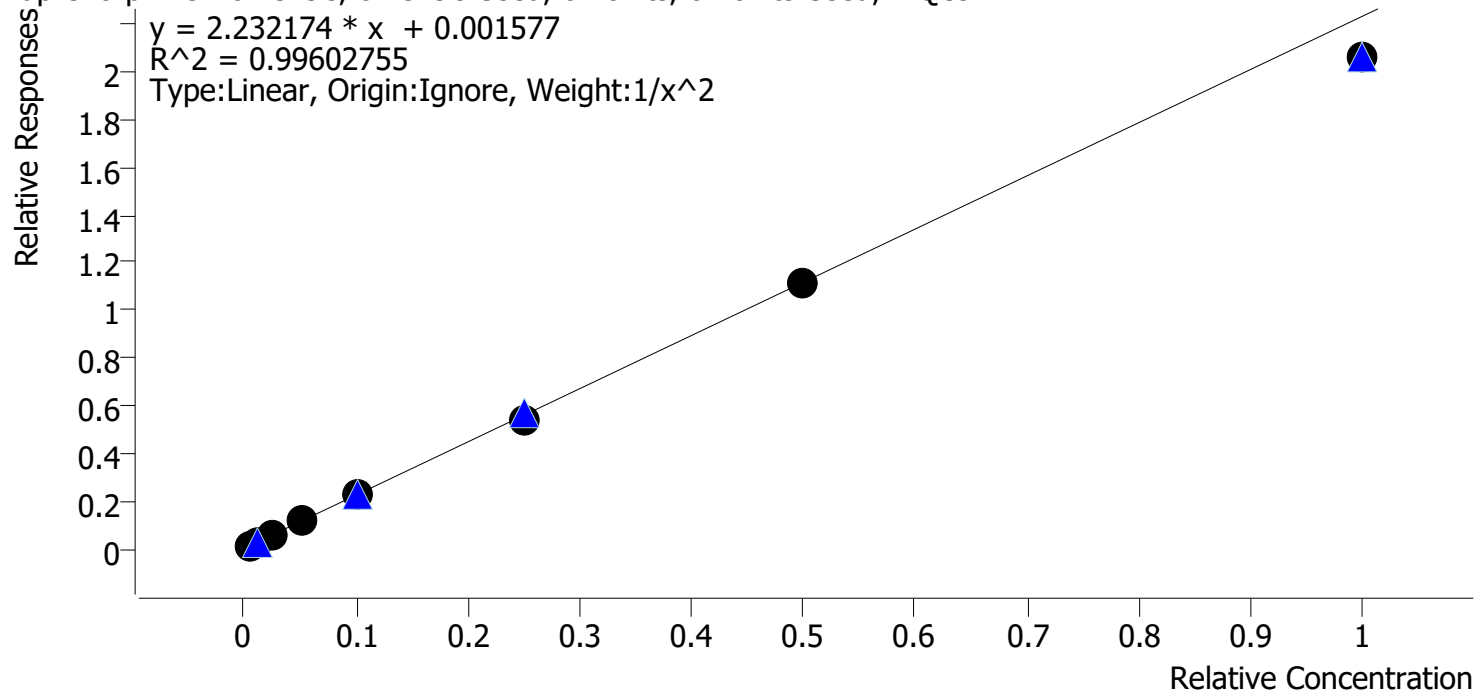
# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine

**Internal Standard** Buprenorphine-D4

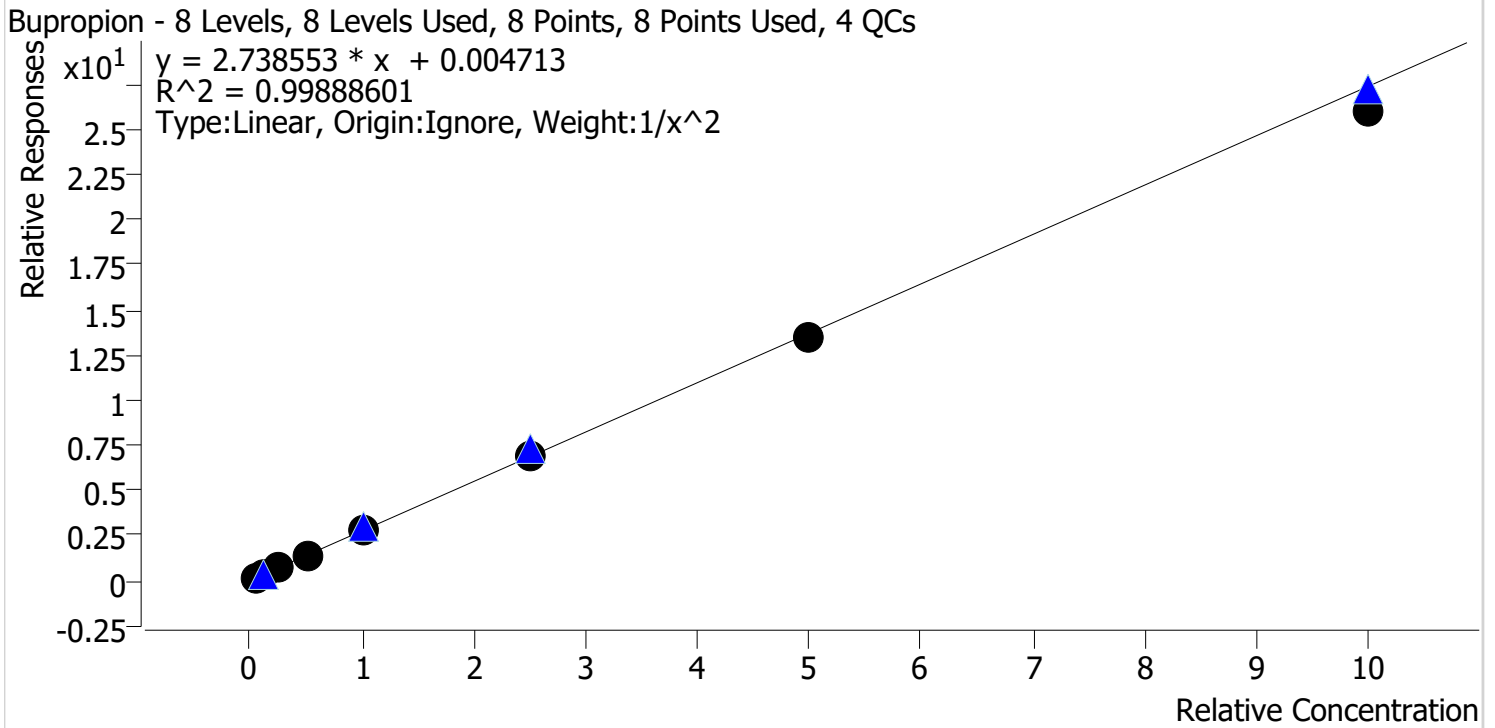
Buprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	94.4
cal 2	2	✓	1.0	1.1	109.2
cal 3	3	✓	2.5	2.6	104.2
cal 4	4	✓	5.0	5.1	102.2
cal 5	5	✓	10.0	10.1	100.9
cal 6	6	✓	25.0	24.3	97.2
cal 7	7	✓	50.0	50.0	99.9
cal 8	8	✓	100.0	92.1	92.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



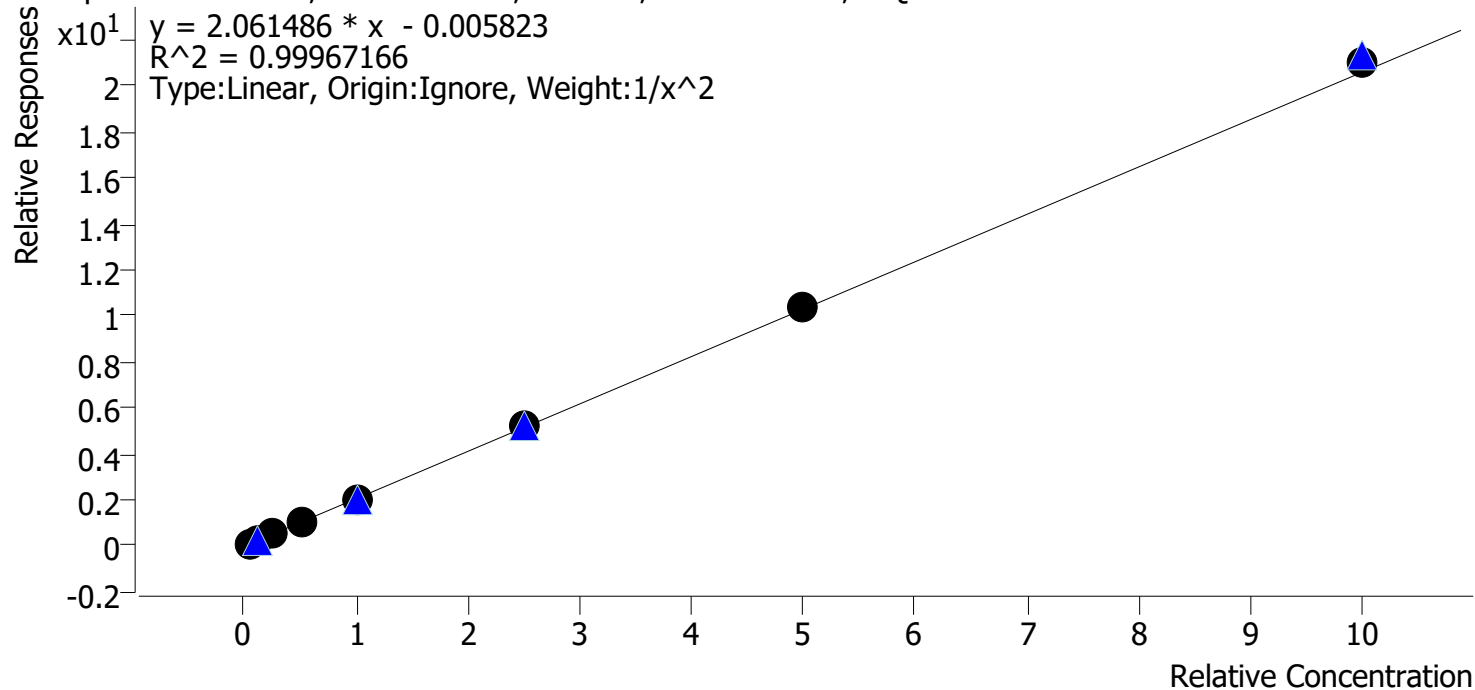
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.8
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	25.0	25.3	101.4
cal 4	4	✓	50.0	50.4	100.8
cal 5	5	✓	100.0	102.8	102.8
cal 6	6	✓	250.0	251.5	100.6
cal 7	7	✓	500.0	492.0	98.4
cal 8	8	✓	1000.0	947.3	94.7

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol

**Internal Standard** Carisoprodol-D7

Carisoprodol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

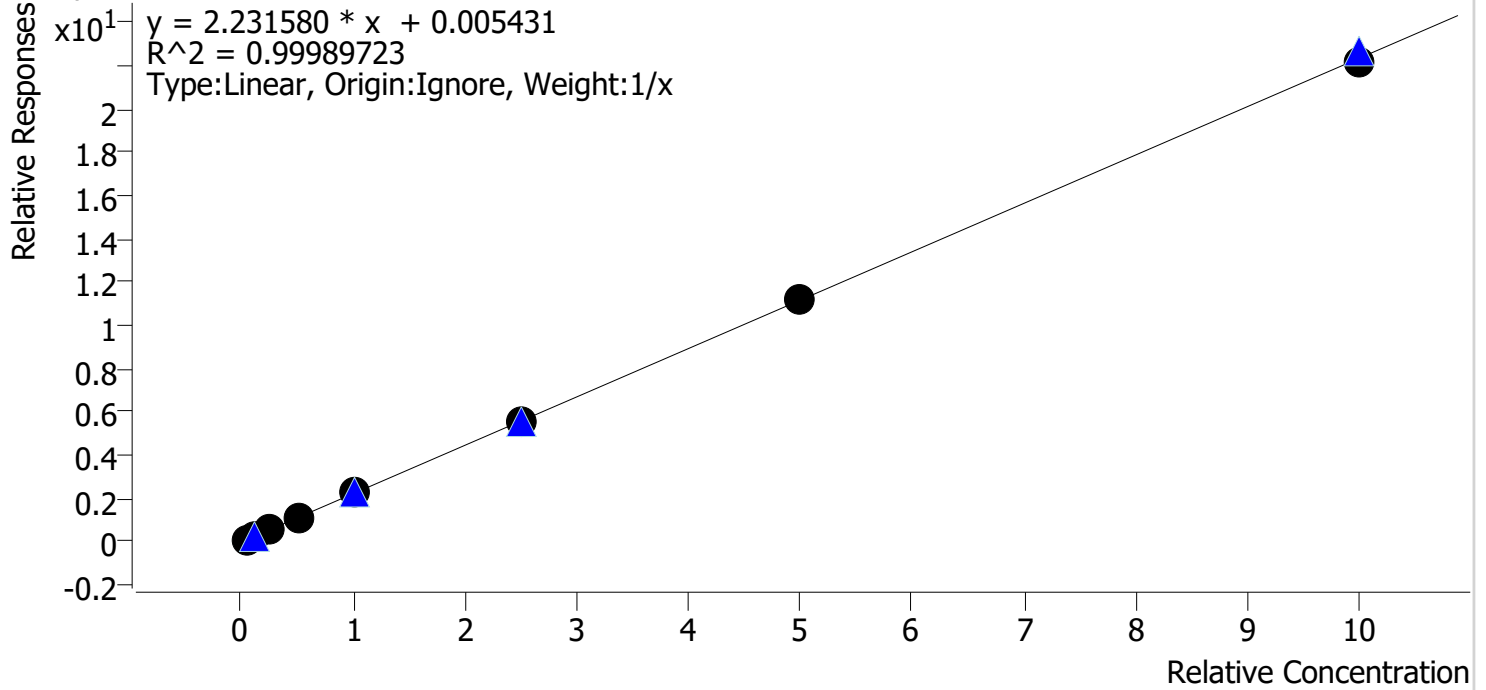


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	10.1	100.6
cal 3	3	✓	25.0	24.4	97.8
cal 4	4	✓	50.0	48.8	97.6
cal 5	5	✓	100.0	100.1	100.1
cal 6	6	✓	250.0	250.4	100.2
cal 7	7	✓	500.0	506.1	101.2
cal 8	8	✓	1000.0	1021.2	102.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

Citalopram - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



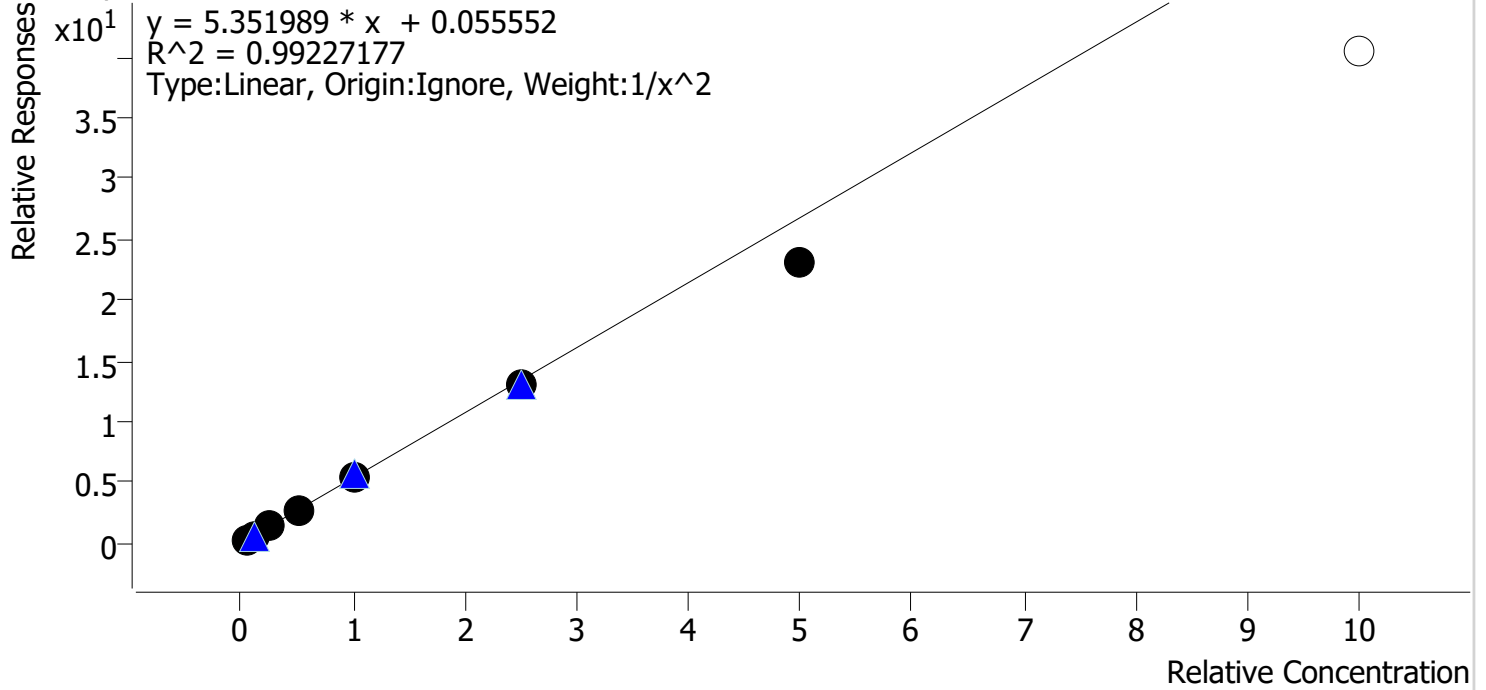
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.1
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	25.7	102.7
cal 4	4	✓	50.0	49.3	98.7
cal 5	5	✓	100.0	101.9	101.9
cal 6	6	✓	250.0	252.5	101.0
cal 7	7	✓	500.0	503.6	100.7
cal 8	8	✓	1000.0	992.2	99.2



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

Clonazepam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



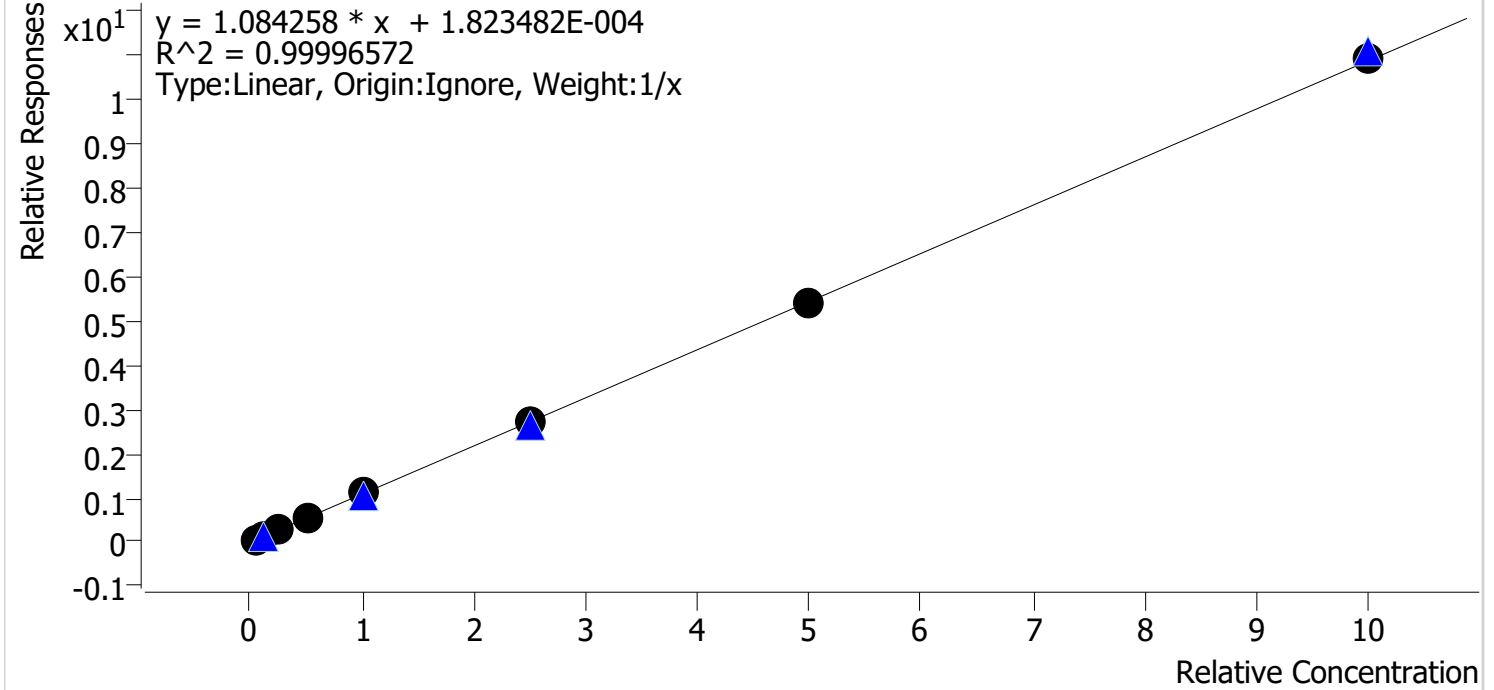
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.1
cal 2	2	✓	10.0	10.6	105.7
cal 3	3	✓	25.0	27.1	108.6
cal 4	4	✓	50.0	51.5	103.0
cal 5	5	✓	100.0	103.5	103.5
cal 6	6	✓	250.0	243.5	97.4
cal 7	7	✓	500.0	433.6	86.7
cal 8	8	✗	1000.0	755.1	75.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

Cocaine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

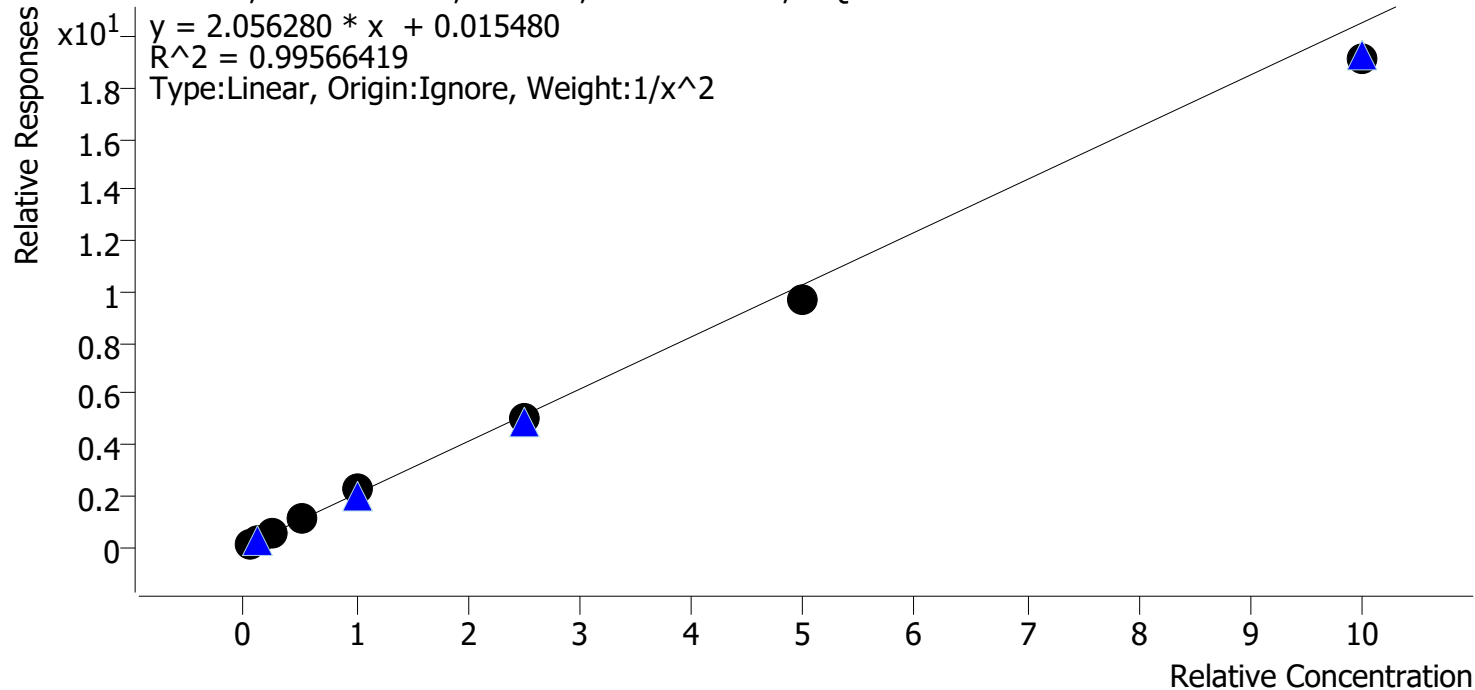


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.8
cal 2	2	✓	10.0	10.1	100.8
cal 3	3	✓	25.0	24.5	98.0
cal 4	4	✓	50.0	49.3	98.6
cal 5	5	✓	100.0	101.3	101.3
cal 6	6	✓	250.0	249.1	99.7
cal 7	7	✓	500.0	497.7	99.5
cal 8	8	✓	1000.0	1002.9	100.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

Codeine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

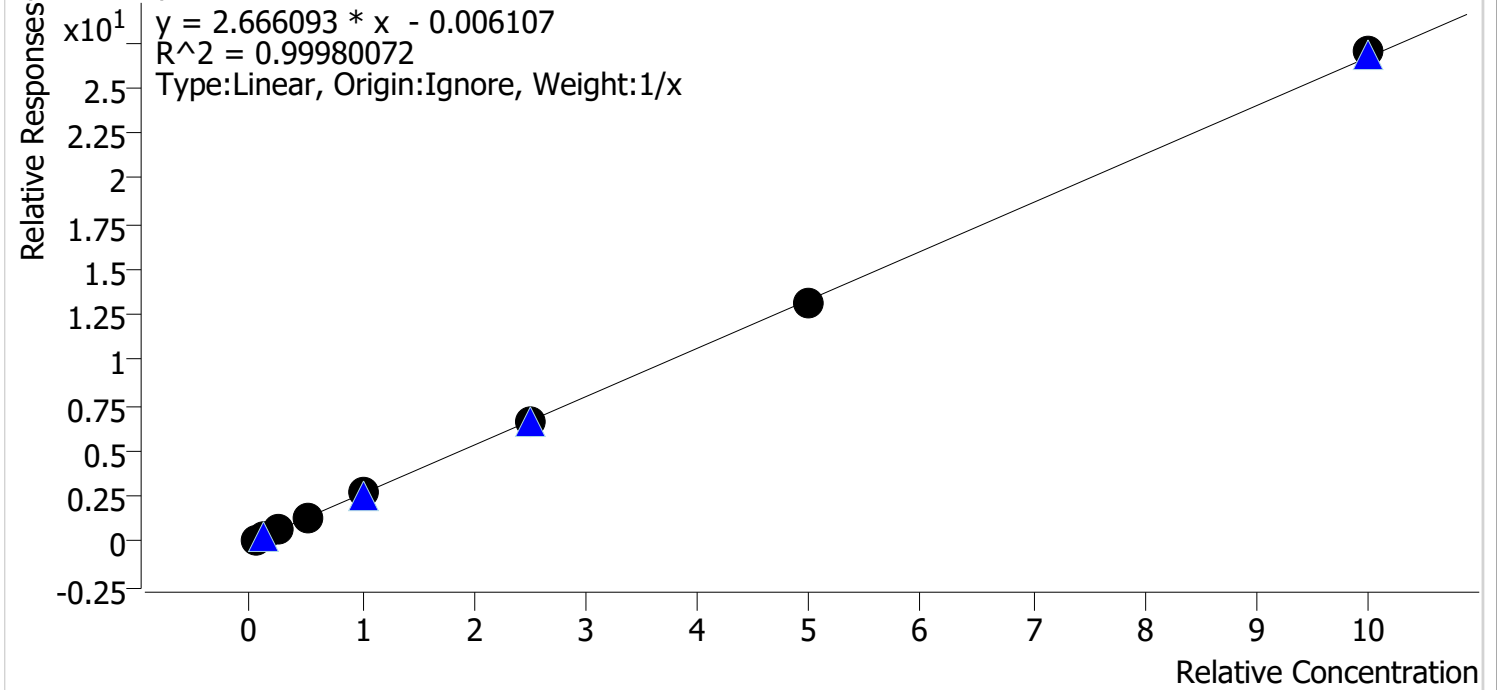


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.2
cal 2	2	✓	10.0	10.7	107.3
cal 3	3	✓	25.0	26.0	103.8
cal 4	4	✓	50.0	50.7	101.3
cal 5	5	✓	100.0	107.2	107.2
cal 6	6	✓	250.0	243.8	97.5
cal 7	7	✓	500.0	471.8	94.4
cal 8	8	✓	1000.0	931.9	93.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

Cyclobenzaprine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



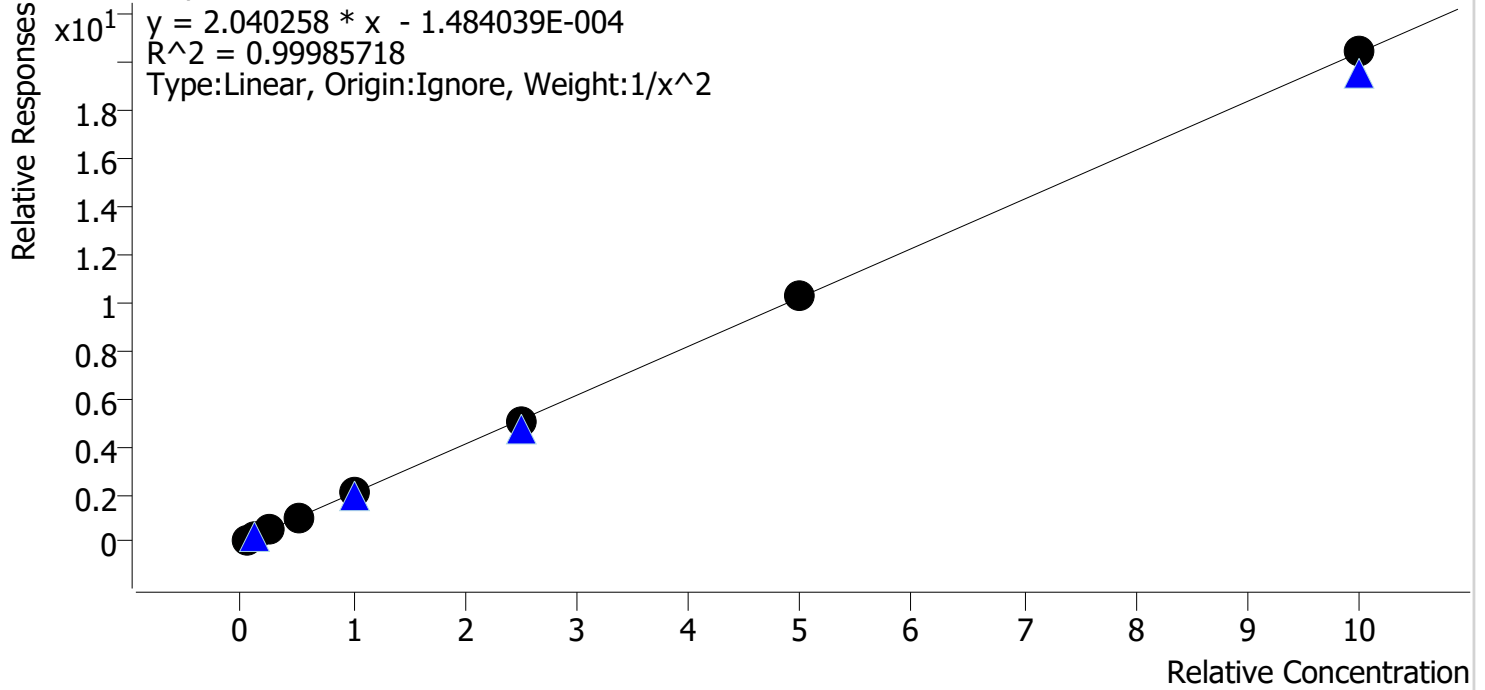
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.9
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	48.5	97.1
cal 5	5	✓	100.0	99.4	99.4
cal 6	6	✓	250.0	244.6	97.9
cal 7	7	✓	500.0	495.4	99.1
cal 8	8	✓	1000.0	1011.6	101.2

# Compound Calibration Report



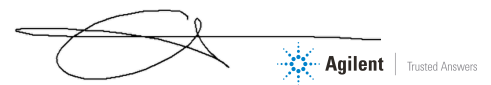
**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

Dextromethorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



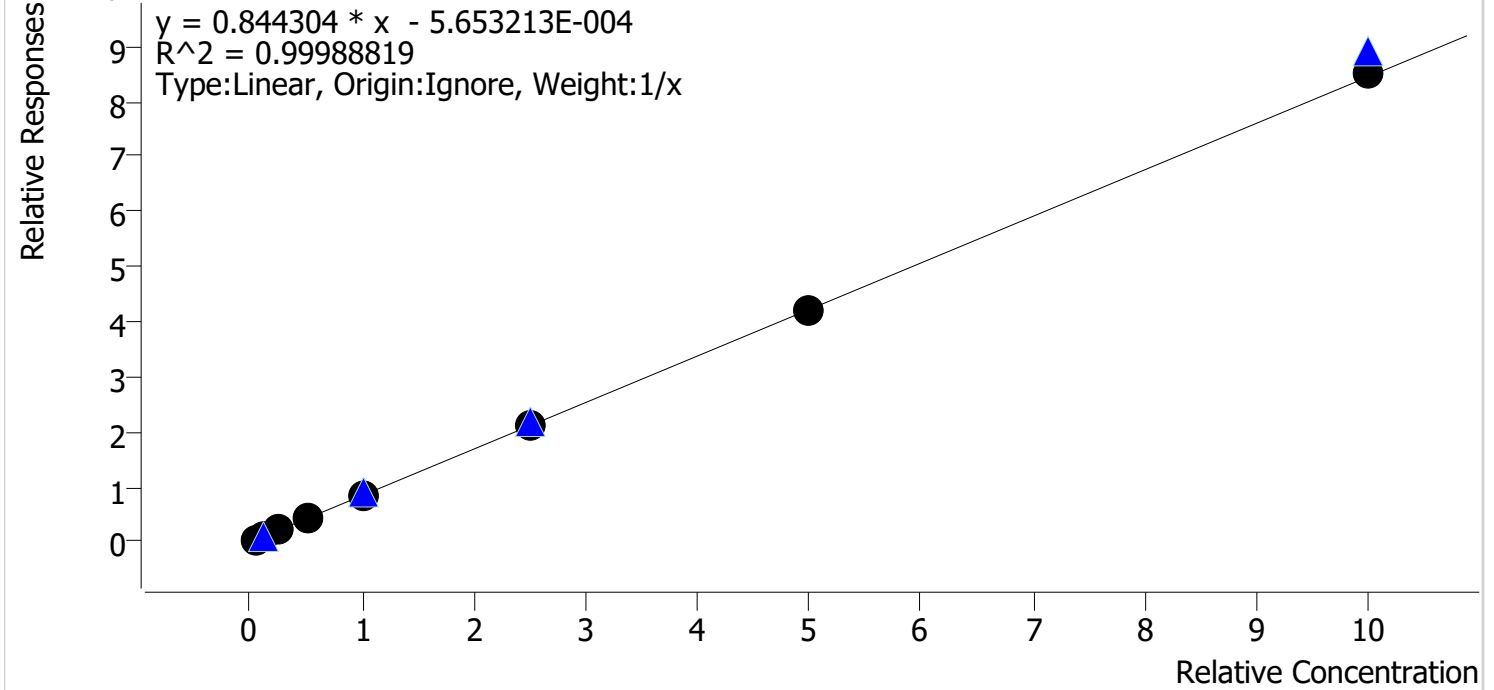
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.8
cal 2	2	✓	10.0	10.1	100.7
cal 3	3	✓	25.0	25.0	100.1
cal 4	4	✓	50.0	49.1	98.3
cal 5	5	✓	100.0	101.8	101.8
cal 6	6	✓	250.0	247.7	99.1
cal 7	7	✓	500.0	501.2	100.2
cal 8	8	✓	1000.0	1001.8	100.2

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

Dextrorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

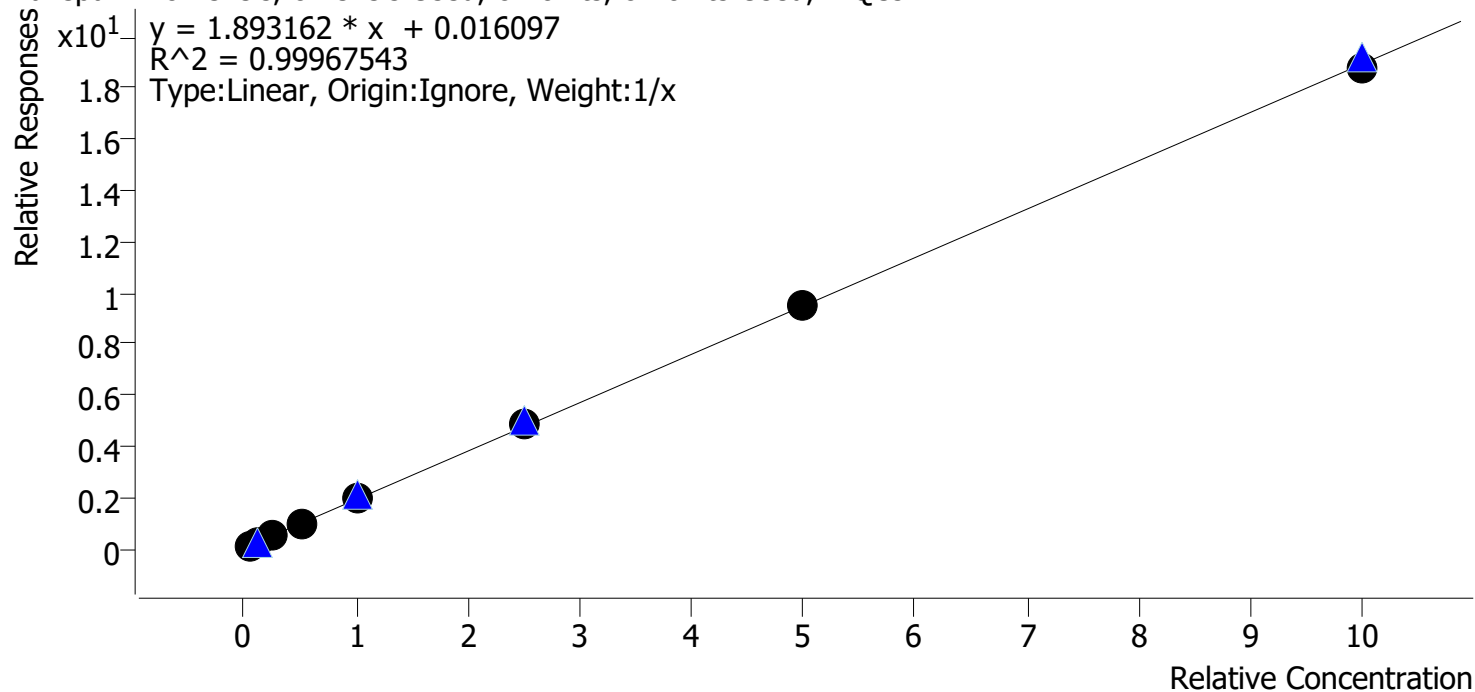


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.5
cal 2	2	✓	10.0	10.2	101.6
cal 3	3	✓	25.0	25.1	100.2
cal 4	4	✓	50.0	48.6	97.1
cal 5	5	✓	100.0	100.8	100.8
cal 6	6	✓	250.0	247.1	98.8
cal 7	7	✓	500.0	495.1	99.0
cal 8	8	✓	1000.0	1008.1	100.8

# Compound Calibration Report

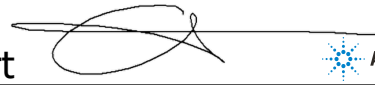
**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5

Diazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



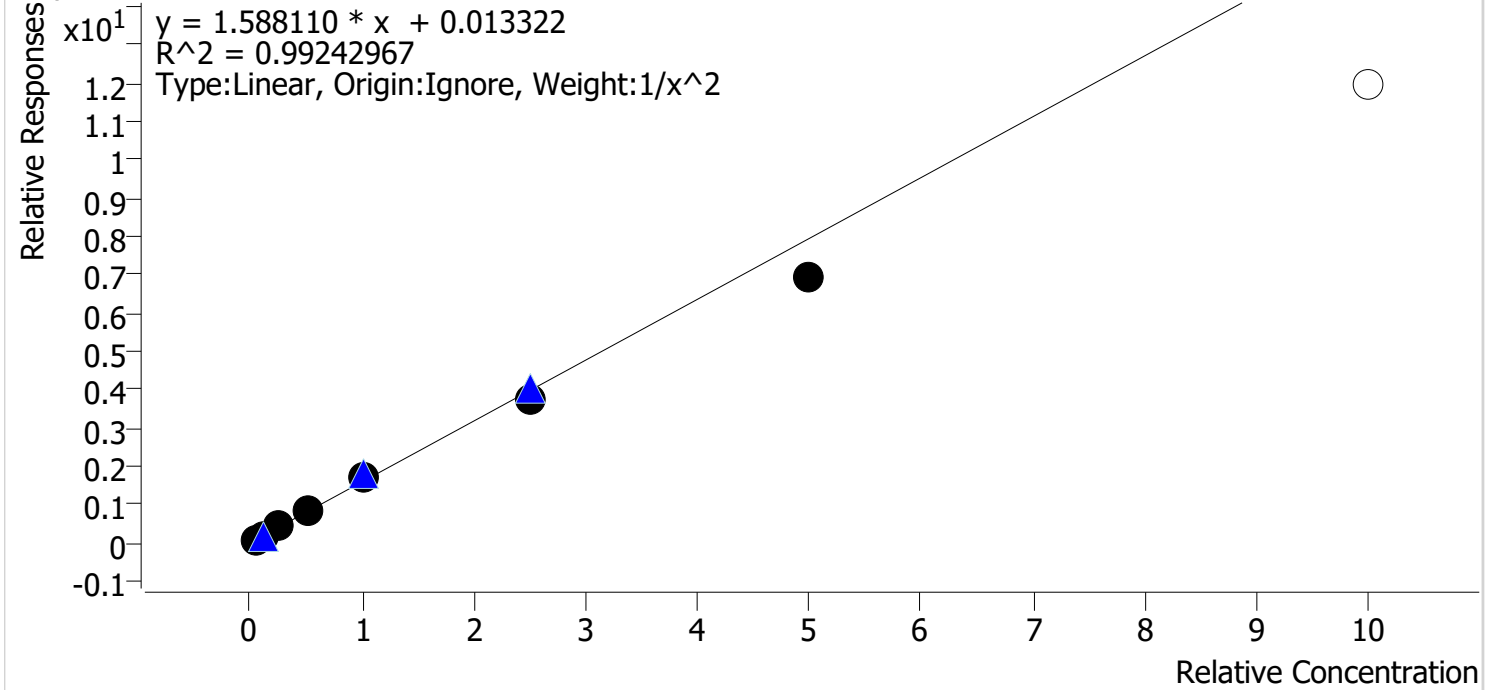
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.4	87.8
cal 2	2	✓	10.0	10.2	101.6
cal 3	3	✓	25.0	26.0	103.9
cal 4	4	✓	50.0	50.8	101.6
cal 5	5	✓	100.0	103.5	103.5
cal 6	6	✓	250.0	257.2	102.9
cal 7	7	✓	500.0	498.6	99.7
cal 8	8	✓	1000.0	989.4	98.9

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	7/17/2019 4:28 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dihydrocodeine	<b>Internal Standard</b>	Dihydrocodeine-D6

Dihydrocodeine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.9
cal 2	2	✓	10.0	10.5	104.5
cal 3	3	✓	25.0	26.6	106.3
cal 4	4	✓	50.0	52.9	105.7
cal 5	5	✓	100.0	105.4	105.4
cal 6	6	✓	250.0	237.3	94.9
cal 7	7	✓	500.0	436.3	87.3
cal 8	8	x	1000.0	754.7	75.5

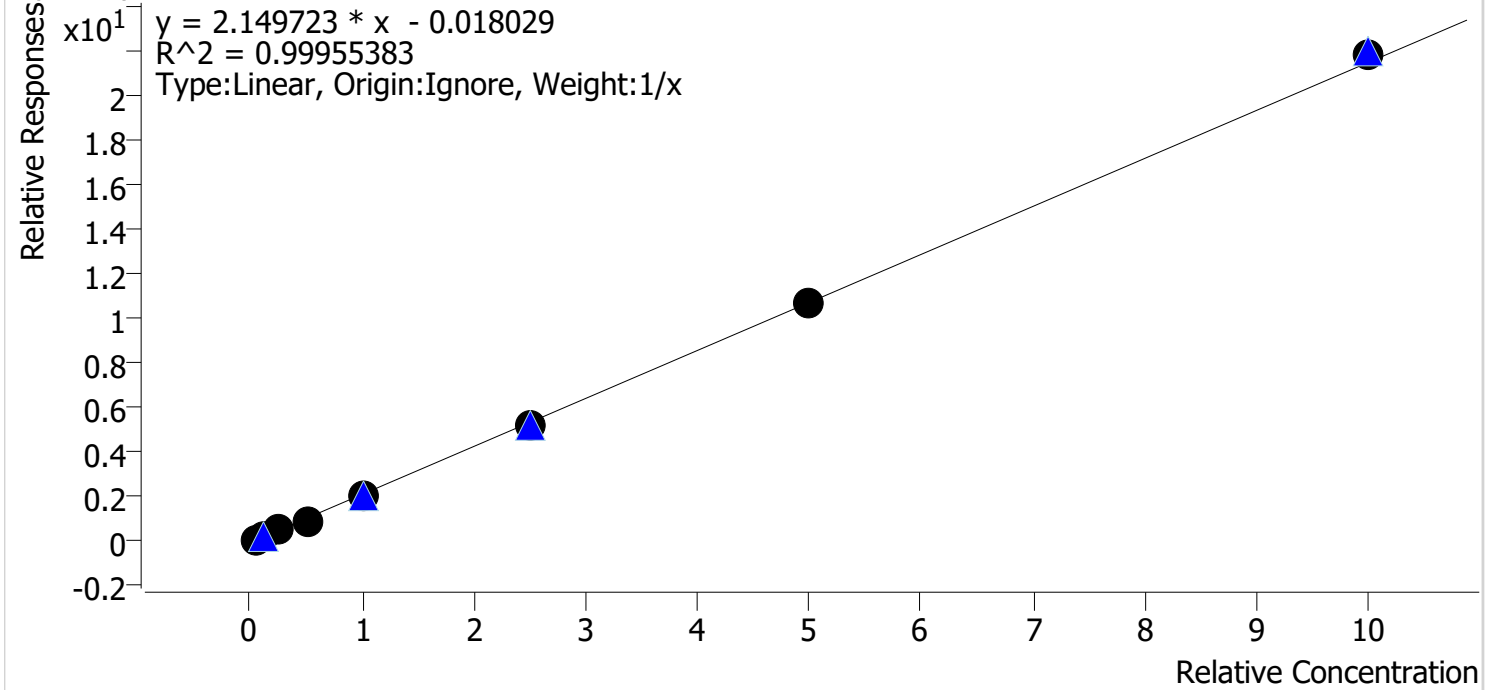


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

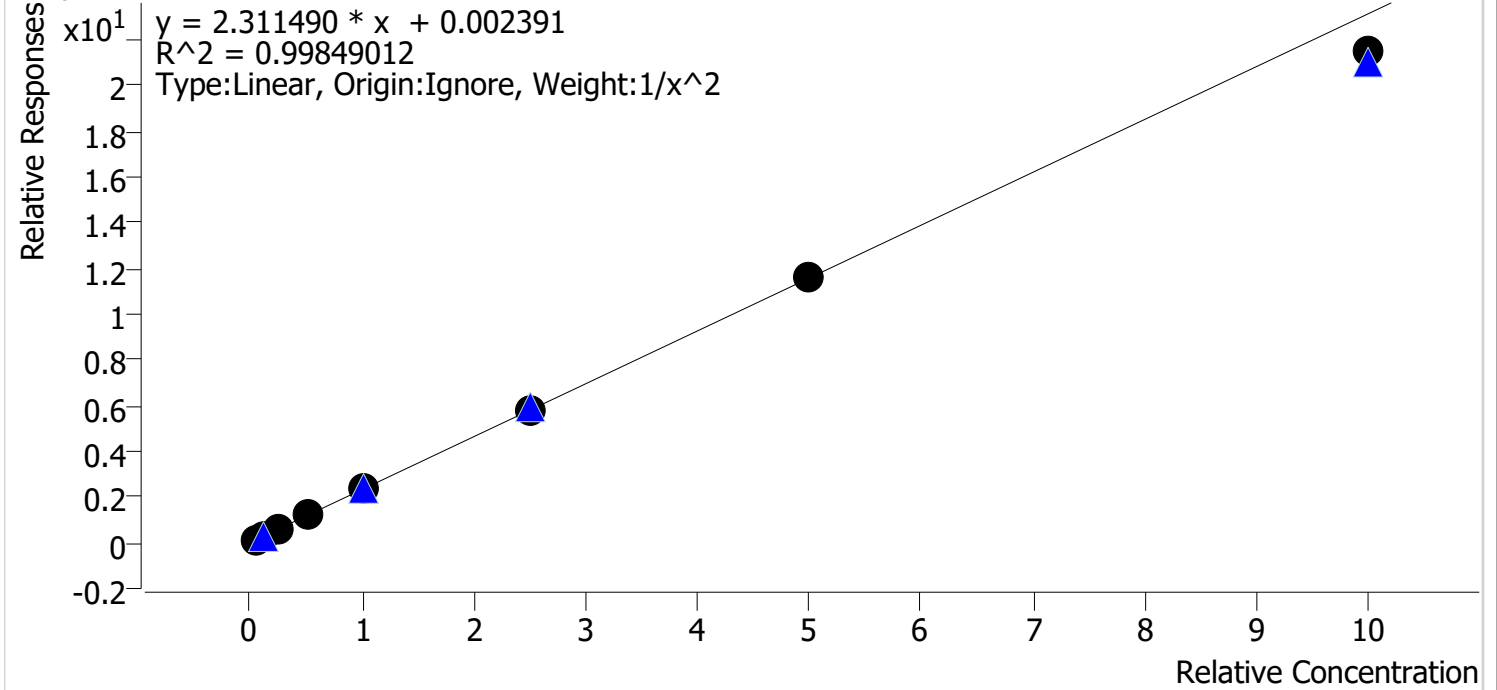


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	110.0
cal 2	2	✓	10.0	10.5	105.2
cal 3	3	✓	25.0	24.2	96.9
cal 4	4	✓	50.0	46.4	92.8
cal 5	5	✓	100.0	95.8	95.8
cal 6	6	✓	250.0	245.3	98.1
cal 7	7	✓	500.0	499.2	99.8
cal 8	8	✓	1000.0	1013.0	101.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

Doxylamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

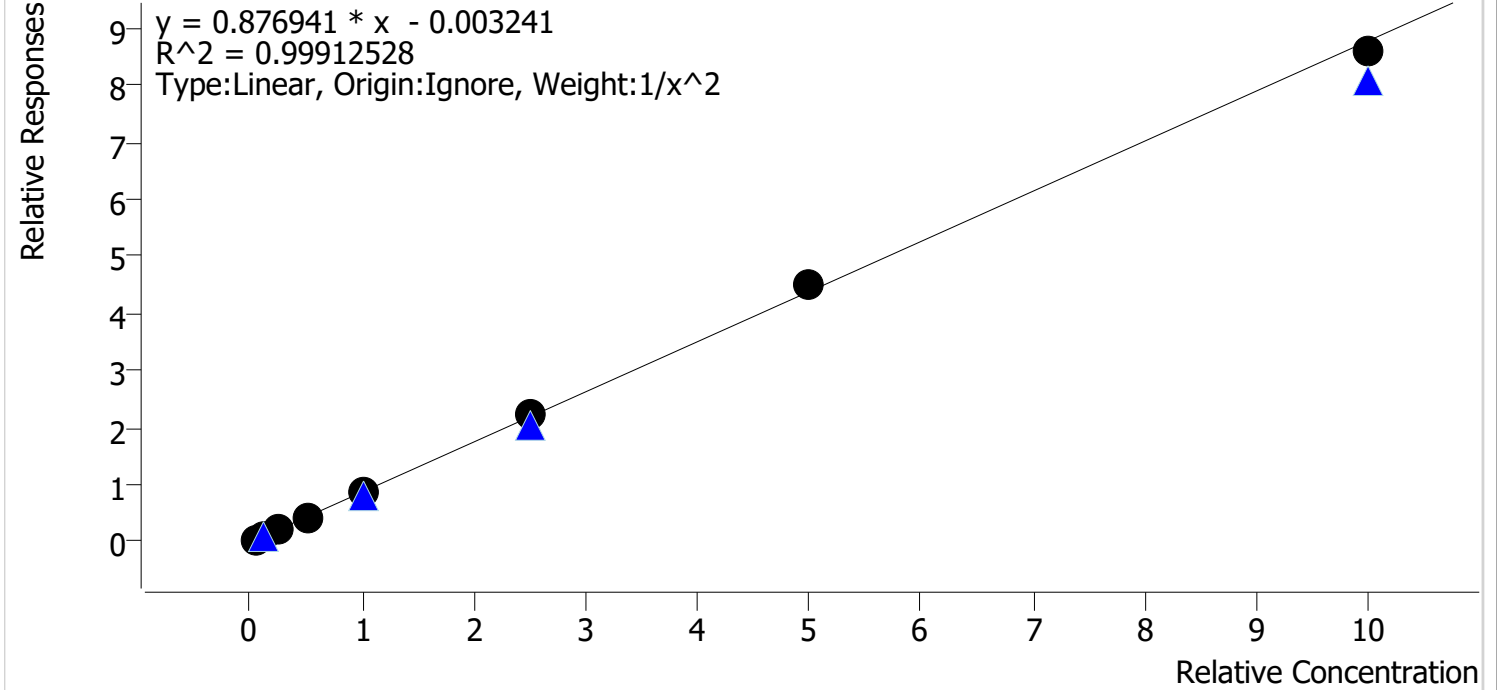


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.0
cal 2	2	✓	10.0	10.3	103.1
cal 3	3	✓	25.0	25.3	101.4
cal 4	4	✓	50.0	50.2	100.5
cal 5	5	✓	100.0	103.4	103.4
cal 6	6	✓	250.0	252.7	101.1
cal 7	7	✓	500.0	498.9	99.8
cal 8	8	✓	1000.0	928.4	92.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

EDDP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



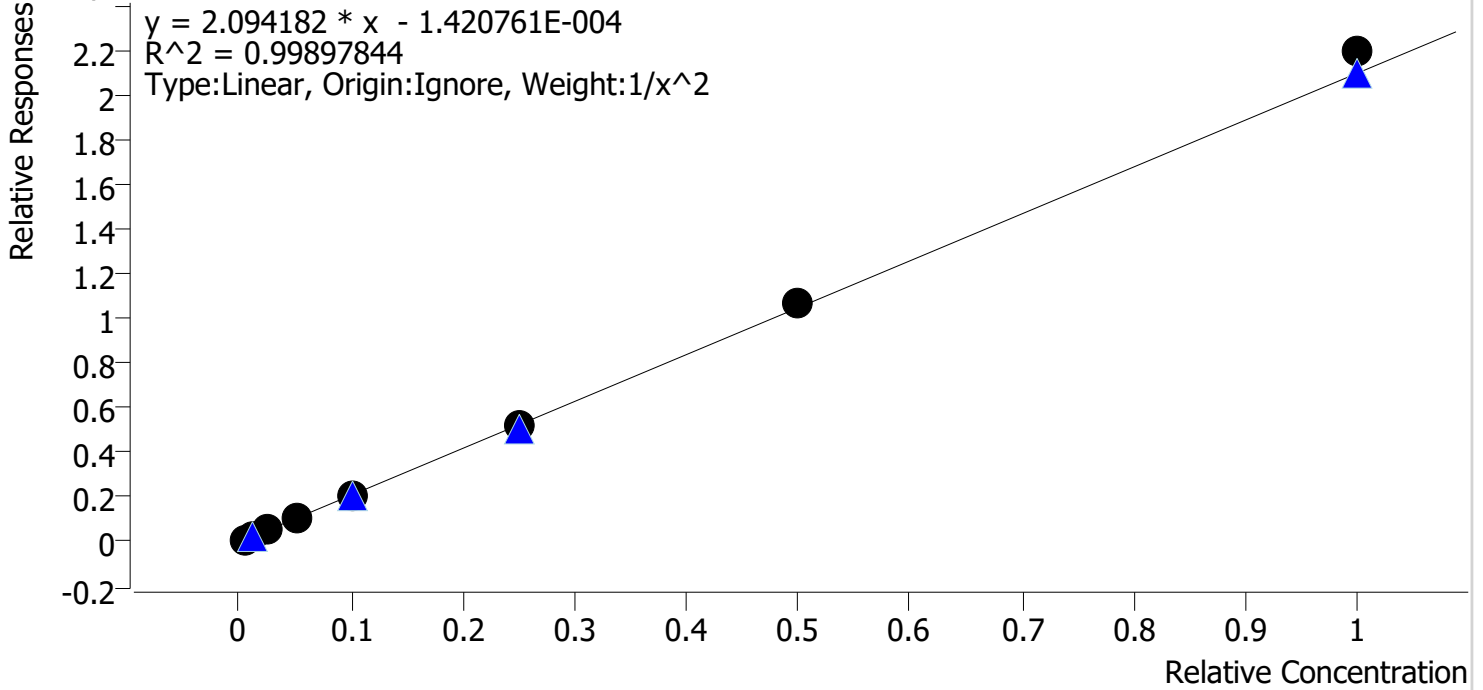
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.4
cal 2	2	✓	10.0	10.4	104.0
cal 3	3	✓	25.0	24.9	99.6
cal 4	4	✓	50.0	48.1	96.3
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	251.9	100.8
cal 7	7	✓	500.0	514.4	102.9
cal 8	8	✓	1000.0	978.7	97.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

Fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

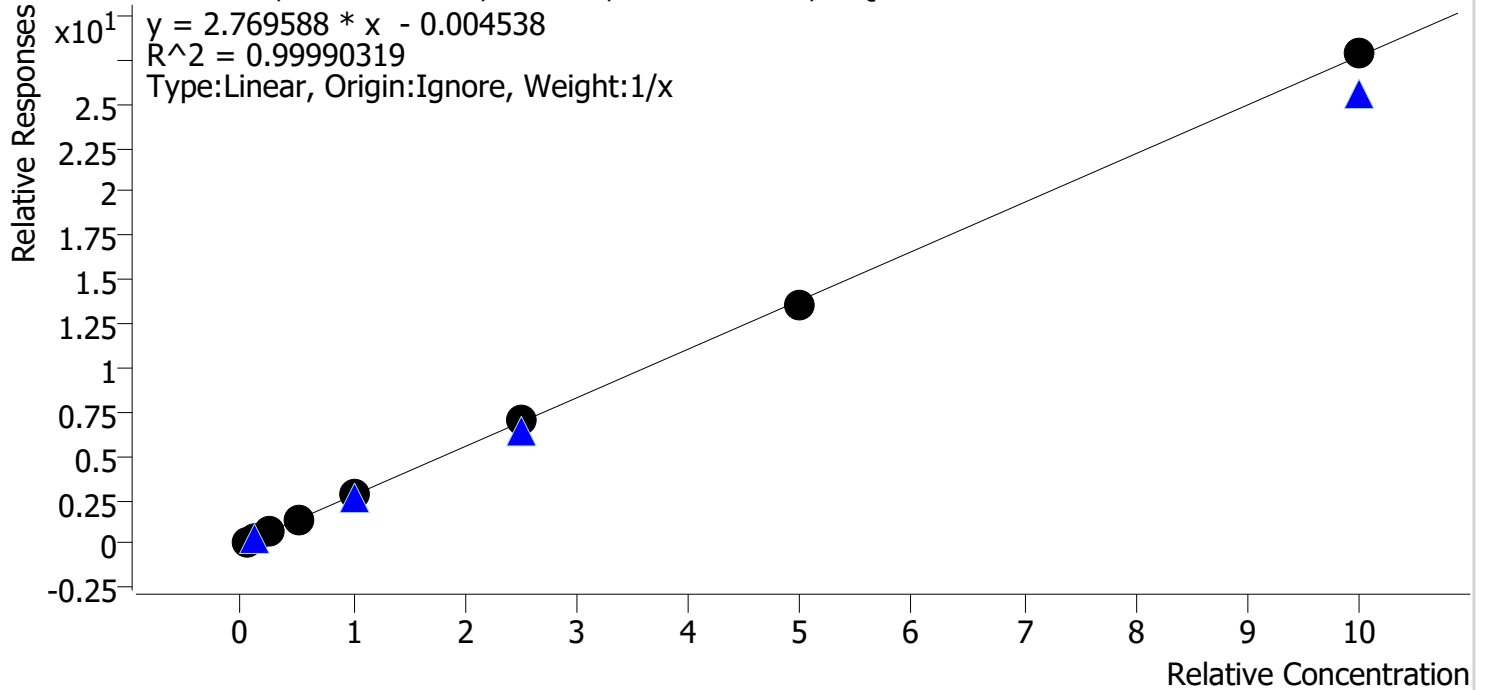


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	100.5
cal 2	2	✓	1.0	1.0	100.9
cal 3	3	✓	2.5	2.4	97.2
cal 4	4	✓	5.0	4.8	96.0
cal 5	5	✓	10.0	9.9	98.8
cal 6	6	✓	25.0	24.9	99.5
cal 7	7	✓	50.0	51.2	102.4
cal 8	8	✓	100.0	104.6	104.6

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

Fluoxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



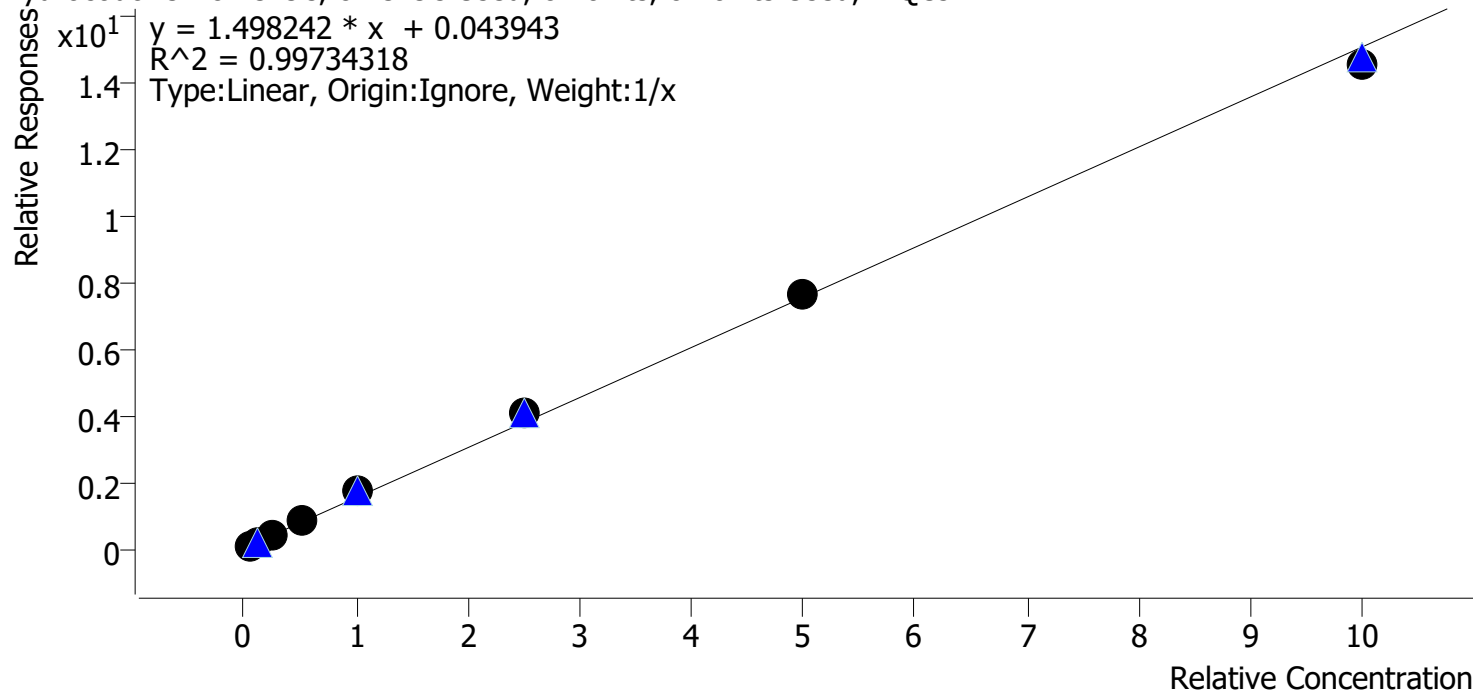
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	10.2	101.8
cal 3	3	✓	25.0	24.9	99.5
cal 4	4	✓	50.0	49.0	98.0
cal 5	5	✓	100.0	99.5	99.5
cal 6	6	✓	250.0	252.6	101.0
cal 7	7	✓	500.0	493.4	98.7
cal 8	8	✓	1000.0	1005.4	100.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

Hydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



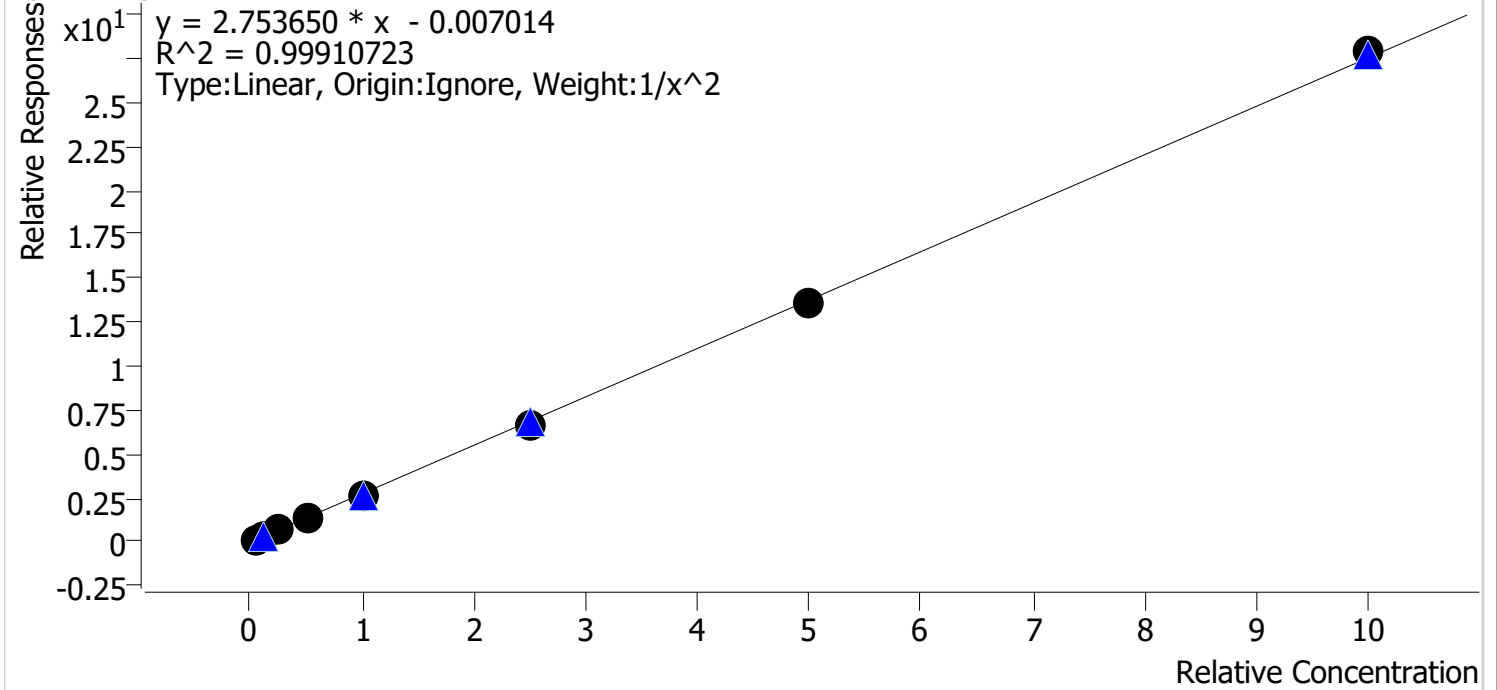
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.1	82.3
cal 2	2	✓	10.0	9.1	90.7
cal 3	3	✓	25.0	26.0	104.1
cal 4	4	✓	50.0	53.6	107.1
cal 5	5	✓	100.0	110.8	110.8
cal 6	6	✓	250.0	270.4	108.1
cal 7	7	✓	500.0	502.8	100.6
cal 8	8	✓	1000.0	963.3	96.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



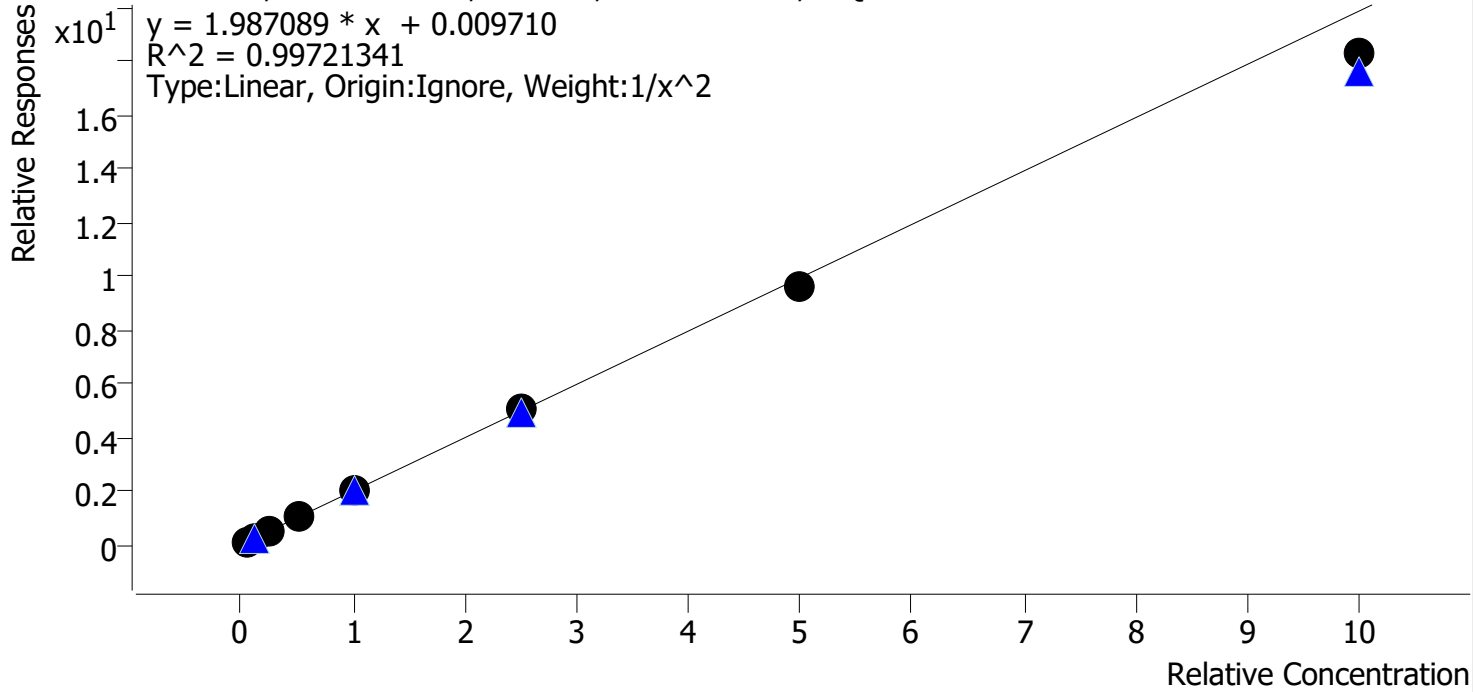
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.7
cal 2	2	✓	10.0	10.4	103.9
cal 3	3	✓	25.0	25.5	101.9
cal 4	4	✓	50.0	51.0	102.0
cal 5	5	✓	100.0	96.8	96.8
cal 6	6	✓	250.0	244.4	97.8
cal 7	7	✓	500.0	493.0	98.6
cal 8	8	✓	1000.0	1013.0	101.3

# Compound Calibration Report



**Batch results**             D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update**        7/17/2019 4:28 PM  
**Analyst Name**            ISP\datastor  
**Analyte**                    Ketamine                                 **Internal Standard**             Ketamine-D4

Ketamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.5
cal 2	2	✓	10.0	10.5	104.7
cal 3	3	✓	25.0	26.0	104.0
cal 4	4	✓	50.0	51.0	101.9
cal 5	5	✓	100.0	104.0	104.0
cal 6	6	✓	250.0	251.6	100.6
cal 7	7	✓	500.0	481.3	96.3
cal 8	8	✓	1000.0	920.2	92.0



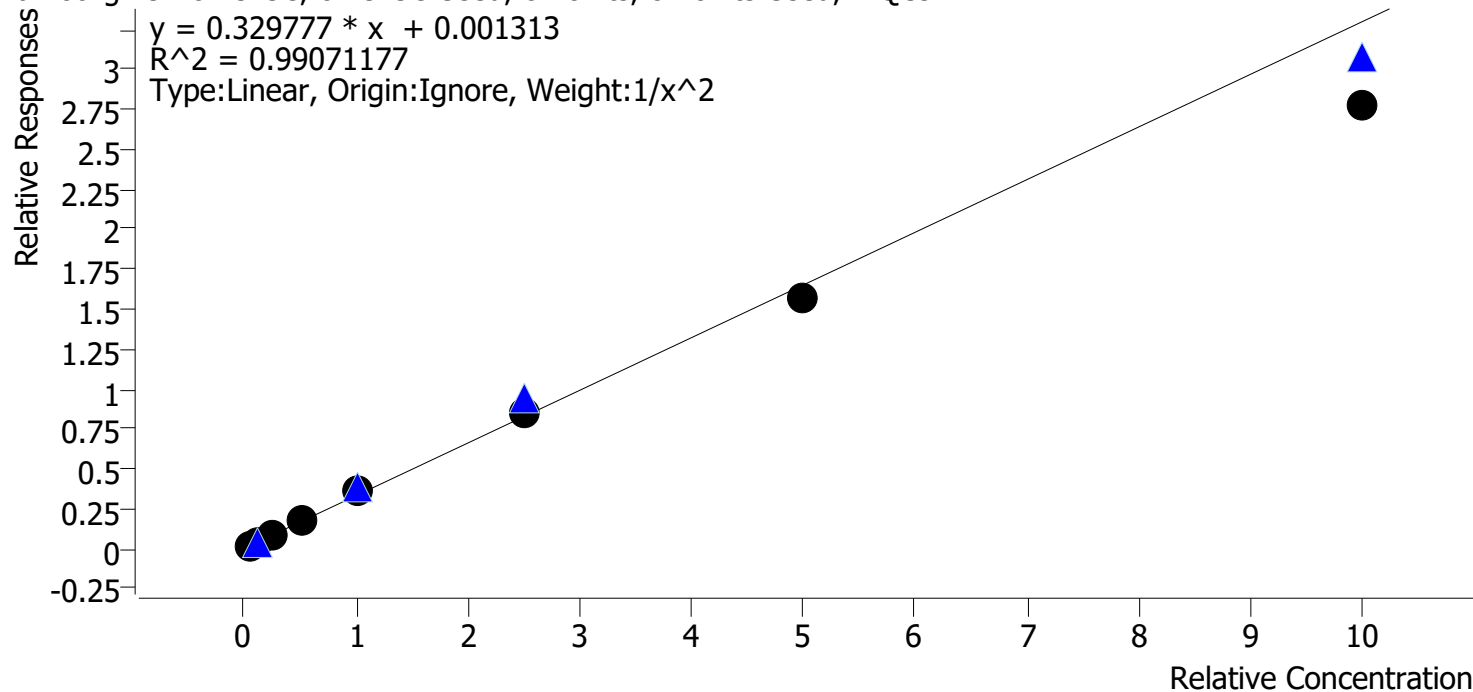


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** **Dextromethorphan-D3**

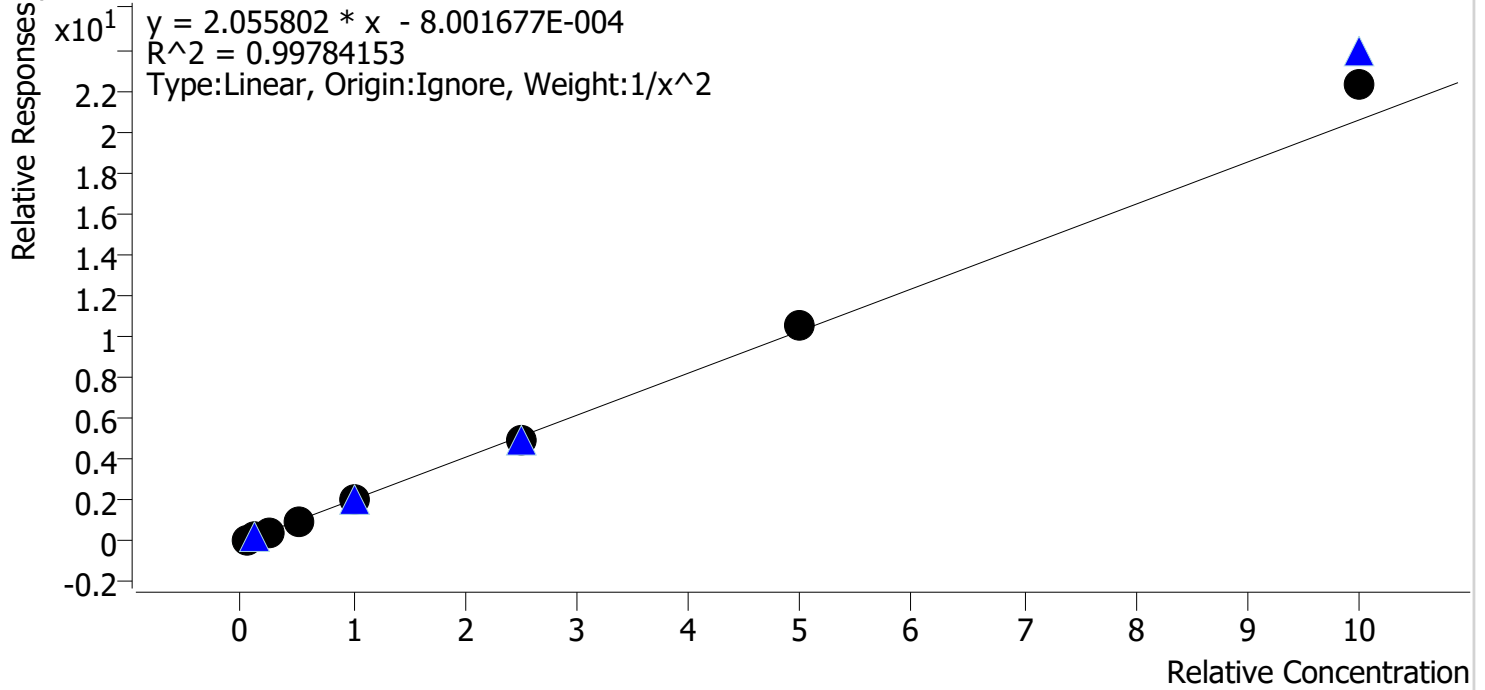
Lamotrigine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	97.0
cal 2	2	✓	10.0	10.4	104.0
cal 3	3	✓	25.0	24.7	98.6
cal 4	4	✓	50.0	54.4	108.9
cal 5	5	✓	100.0	110.6	110.6
cal 6	6	✓	250.0	254.8	101.9
cal 7	7	✓	500.0	473.5	94.7
cal 8	8	✓	1000.0	843.5	84.3

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

Meprobamate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

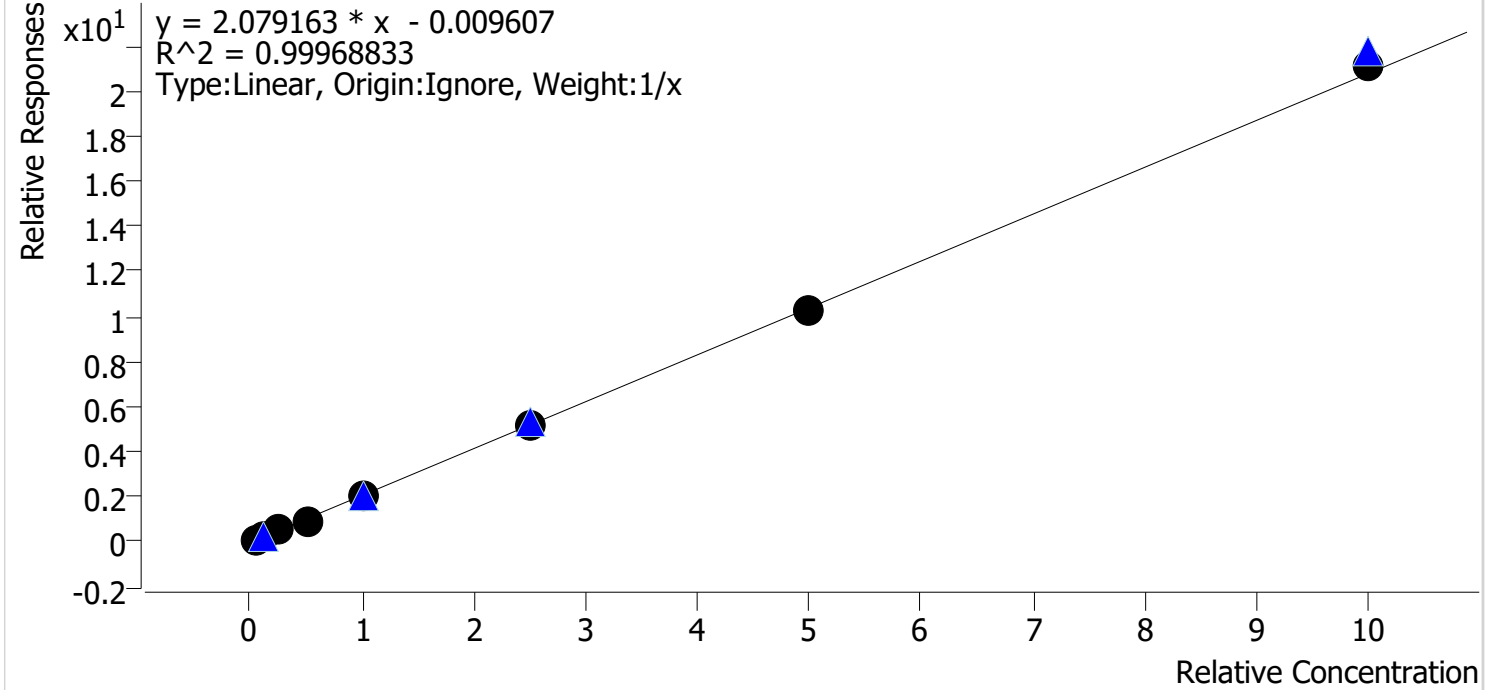


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.4
cal 2	2	✓	10.0	10.1	101.2
cal 3	3	✓	25.0	24.3	97.1
cal 4	4	✓	50.0	48.3	96.6
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✓	250.0	242.0	96.8
cal 7	7	✓	500.0	512.8	102.6
cal 8	8	✓	1000.0	1081.9	108.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

Methadone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



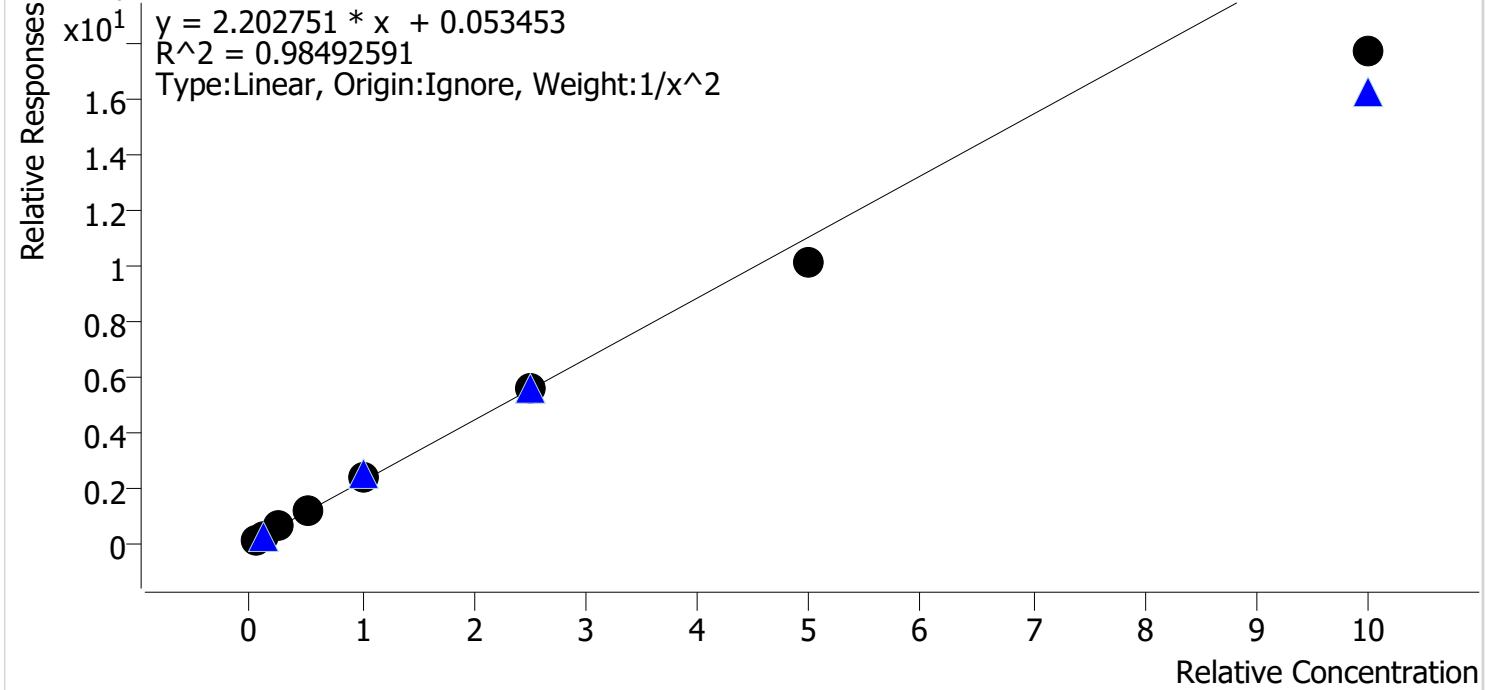
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.3
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	24.7	98.6
cal 4	4	✓	50.0	47.3	94.6
cal 5	5	✓	100.0	97.2	97.2
cal 6	6	✓	250.0	246.8	98.7
cal 7	7	✓	500.0	494.8	99.0
cal 8	8	✓	1000.0	1013.6	101.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** **Methamphetamine-D11**

Methamphetamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



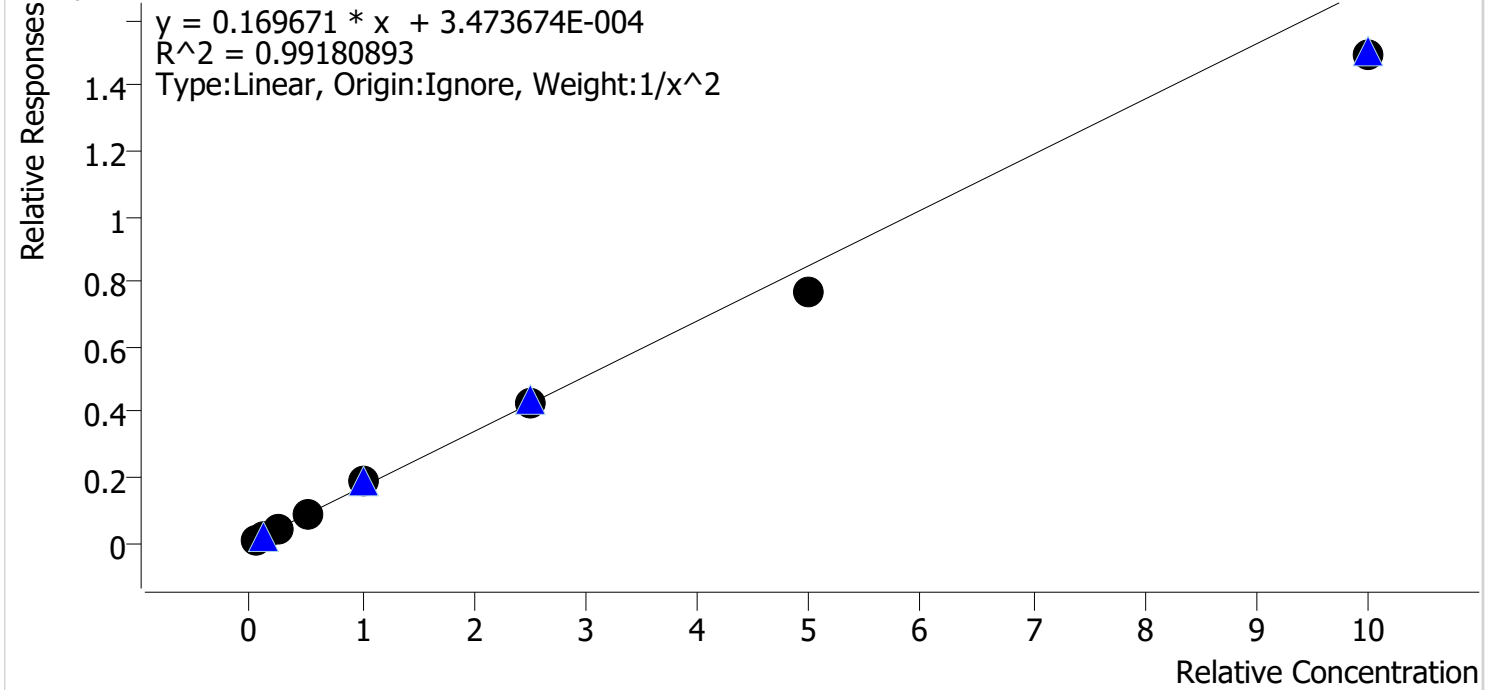
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.4
cal 2	2	✓	10.0	10.7	107.4
cal 3	3	✓	25.0	27.2	108.9
cal 4	4	✓	50.0	54.5	109.0
cal 5	5	✓	100.0	109.2	109.2
cal 6	6	✓	250.0	251.5	100.6
cal 7	7	✓	500.0	456.7	91.3
cal 8	8	✓	1000.0	802.7	80.3

# Compound Calibration Report



**Batch results**      D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update**      7/17/2019 4:28 PM  
**Analyst Name**      ISP\datastor  
**Analyte**      Metoprolol      **Internal Standard**      Diphenhydramine-D3

Metoprolol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.7
cal 2	2	✓	10.0	10.8	107.8
cal 3	3	✓	25.0	25.4	101.8
cal 4	4	✓	50.0	53.8	107.6
cal 5	5	✓	100.0	108.2	108.2
cal 6	6	✓	250.0	251.7	100.7
cal 7	7	✓	500.0	455.3	91.1
cal 8	8	✓	1000.0	882.3	88.2

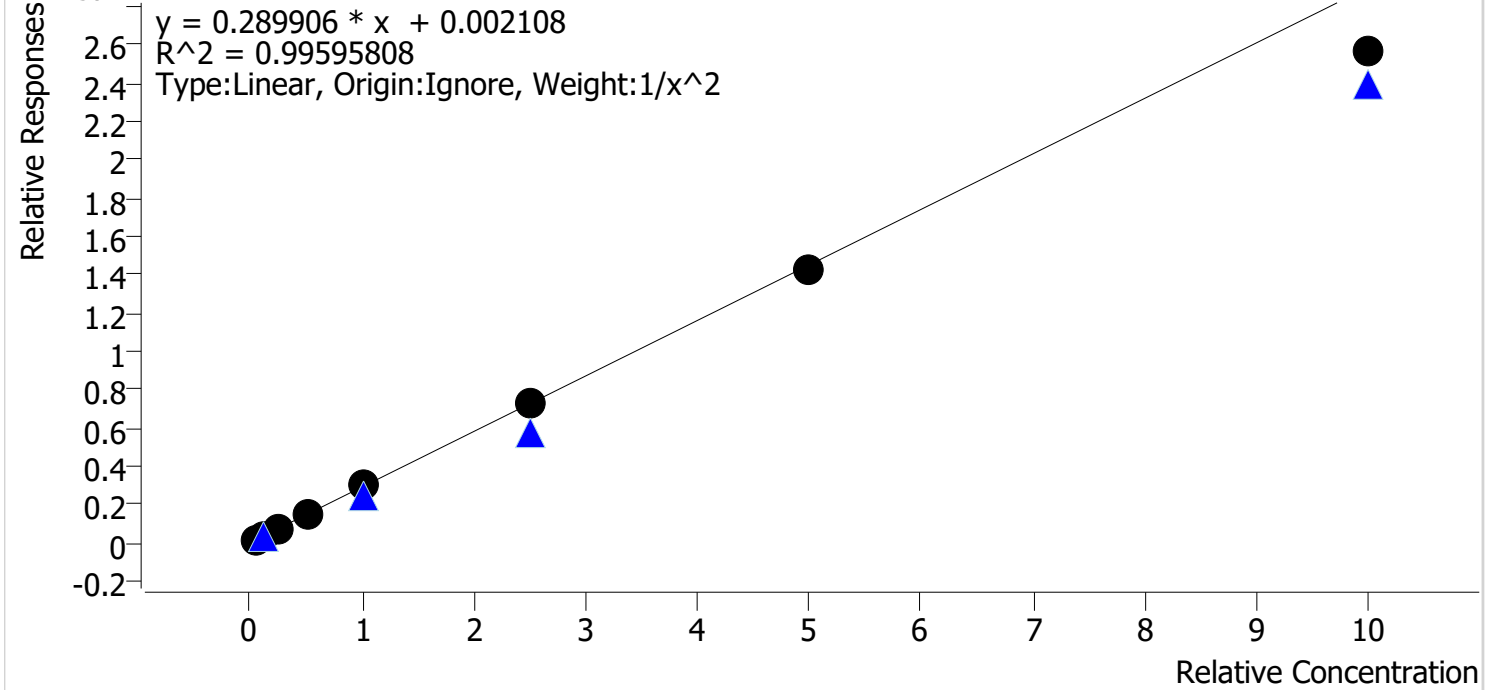


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

Mitragynine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.1
cal 2	2	✓	10.0	10.3	103.3
cal 3	3	✓	25.0	26.1	104.5
cal 4	4	✓	50.0	50.6	101.3
cal 5	5	✓	100.0	105.8	105.8
cal 6	6	✓	250.0	253.7	101.5
cal 7	7	✓	500.0	490.7	98.1
cal 8	8	✓	1000.0	884.3	88.4



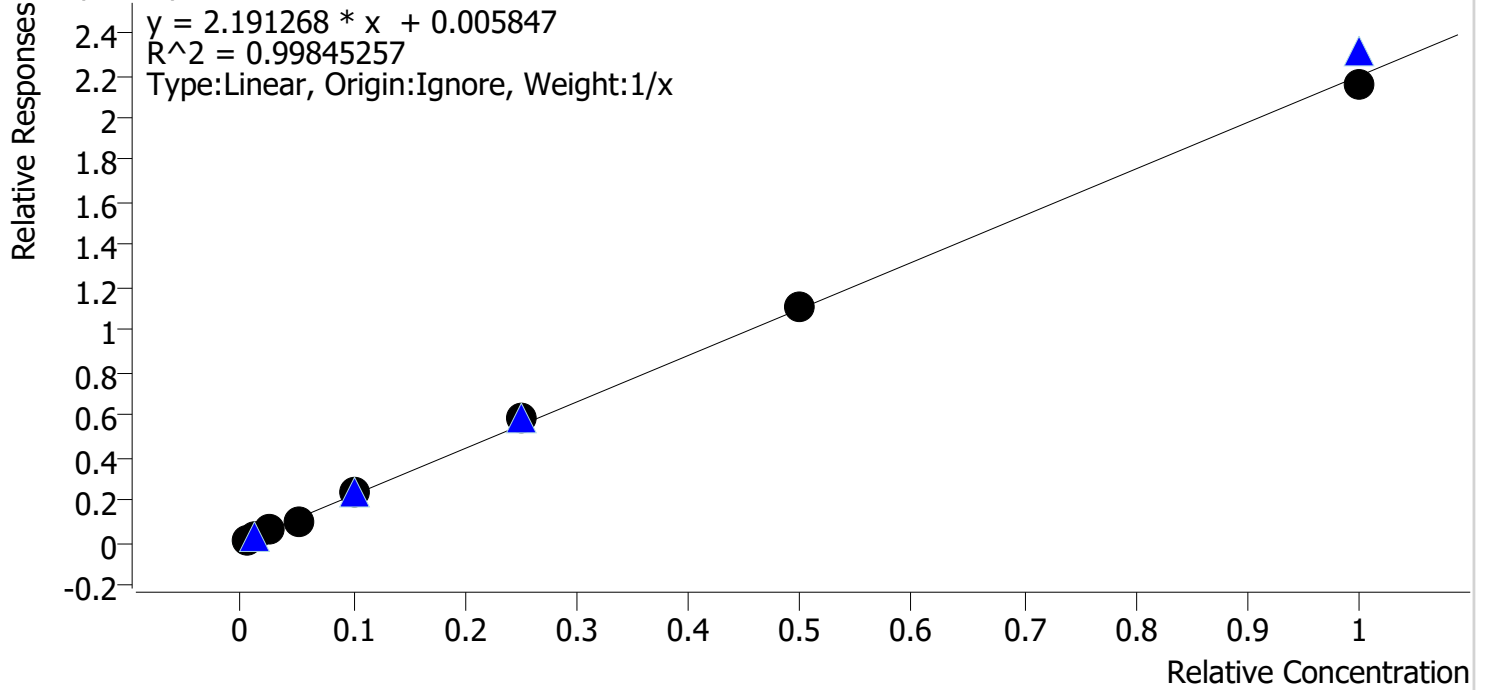


# Compound Calibration Report



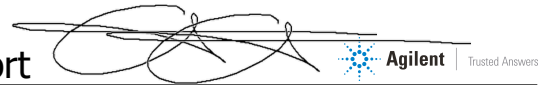
<b>Batch results</b>	D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	7/17/2019 4:28 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Norbuprenorphine	<b>Internal Standard</b>	Norbuprenorphine-D3

Norbuprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.4	84.2
cal 2	2	✓	1.0	1.2	124.4
cal 3	3	✓	2.5	2.3	93.2
cal 4	4	✓	5.0	4.5	89.3
cal 5	5	✓	10.0	10.4	104.0
cal 6	6	✓	25.0	26.3	105.2
cal 7	7	✓	50.0	50.8	101.6
cal 8	8	✓	100.0	98.1	98.1

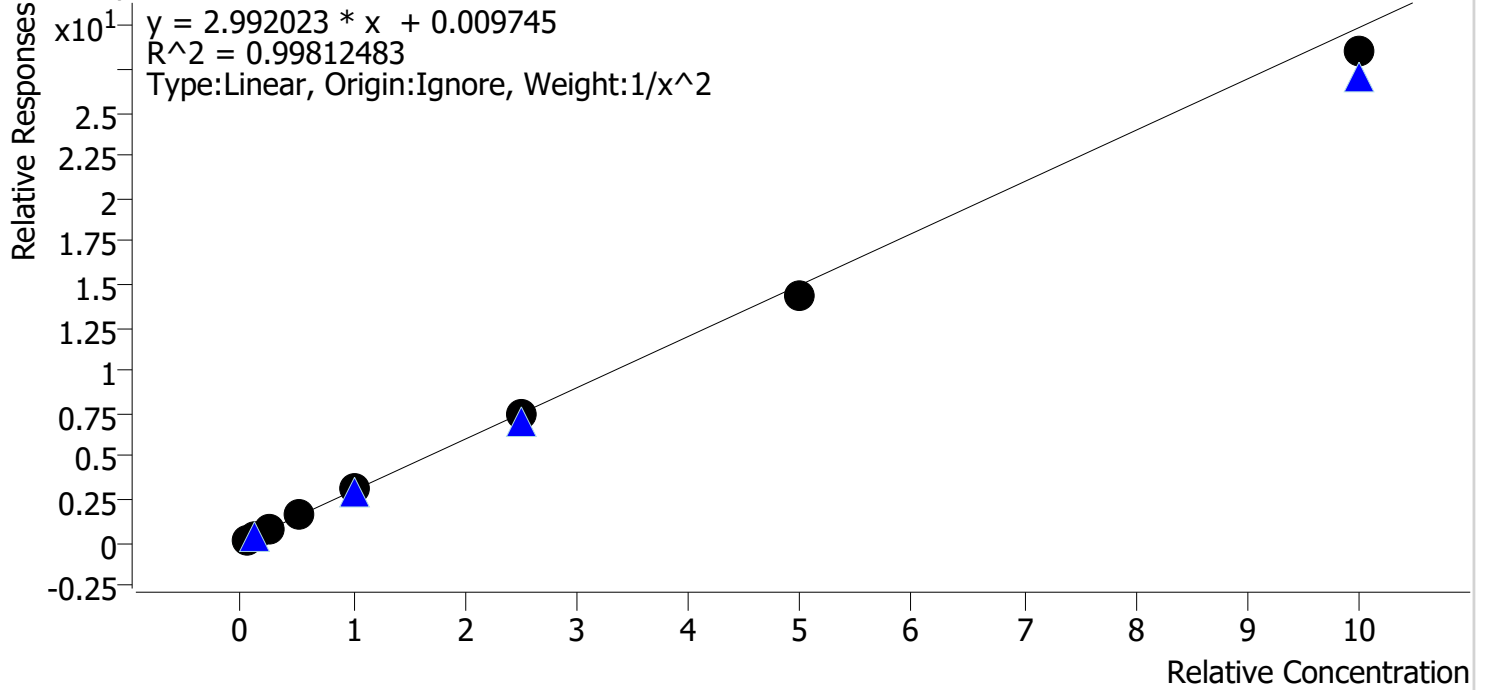
# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam

**Internal Standard** Nordiazepam-D5

Nordiazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

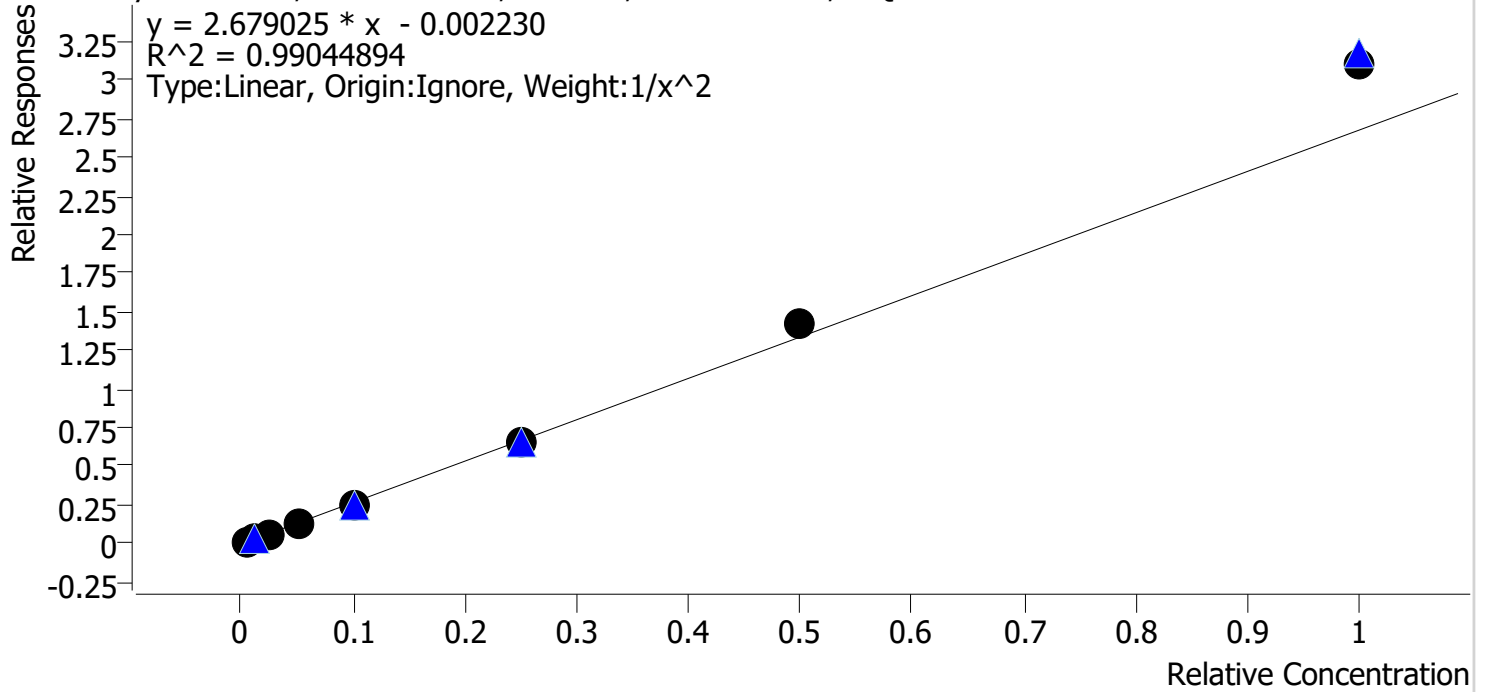


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.6
cal 2	2	✓	10.0	10.5	104.6
cal 3	3	✓	25.0	26.0	104.0
cal 4	4	✓	50.0	51.3	102.6
cal 5	5	✓	100.0	101.4	101.4
cal 6	6	✓	250.0	249.6	99.8
cal 7	7	✓	500.0	477.9	95.6
cal 8	8	✓	1000.0	953.2	95.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

Norfentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

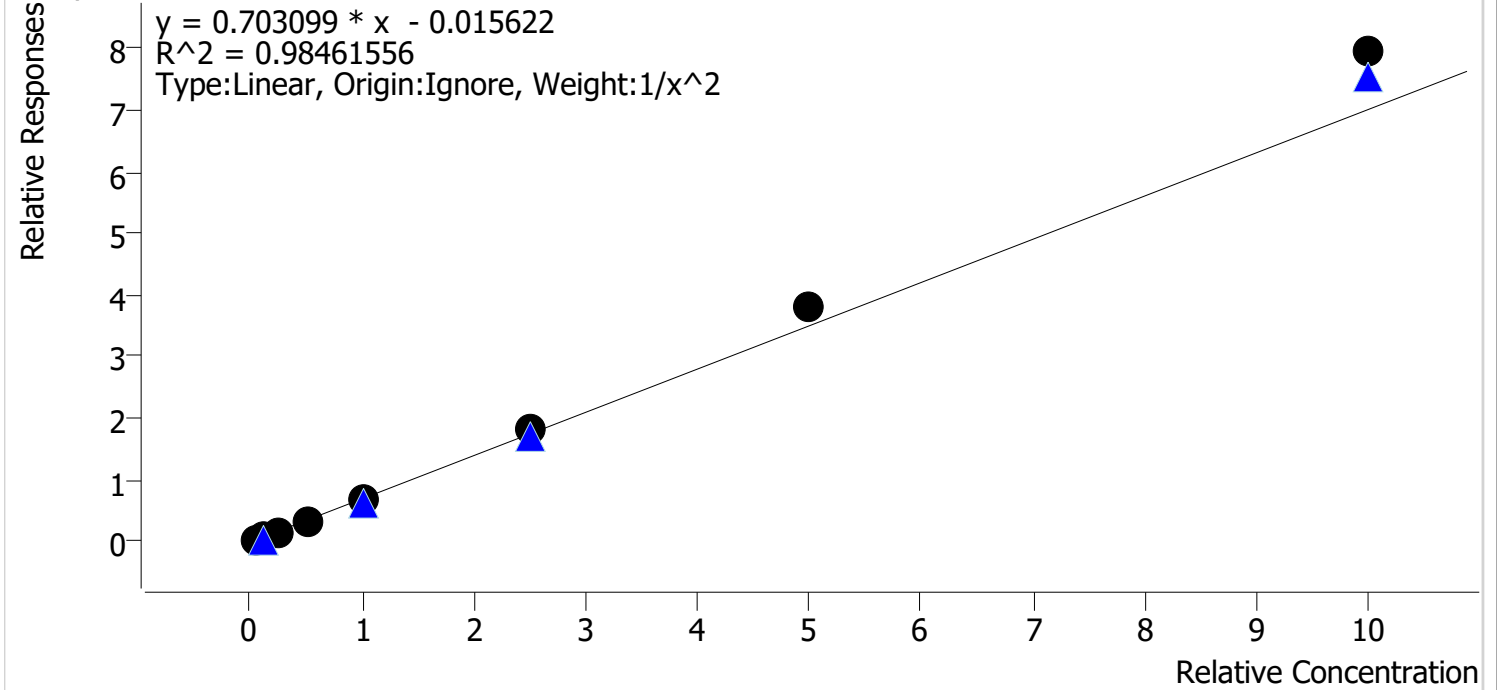


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	103.6
cal 2	2	✓	1.0	1.0	98.4
cal 3	3	✓	2.5	2.3	91.9
cal 4	4	✓	5.0	4.5	90.0
cal 5	5	✓	10.0	9.4	94.2
cal 6	6	✓	25.0	24.9	99.5
cal 7	7	✓	50.0	53.3	106.7
cal 8	8	✓	100.0	115.8	115.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

Norhydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



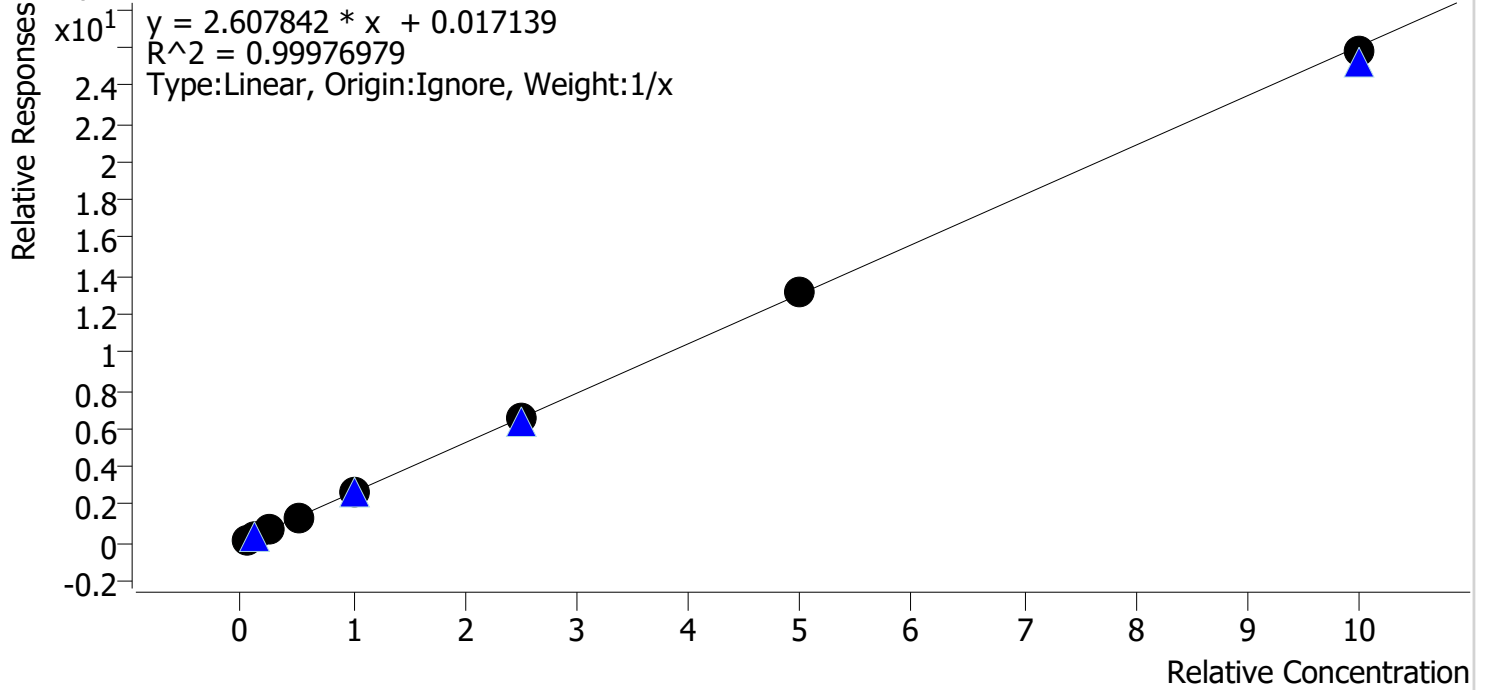
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.1
cal 2	2	✓	10.0	9.4	94.5
cal 3	3	✓	25.0	20.8	83.1
cal 4	4	✓	50.0	43.8	87.5
cal 5	5	✓	100.0	99.3	99.3
cal 6	6	✓	250.0	264.0	105.6
cal 7	7	✓	500.0	547.5	109.5
cal 8	8	✓	1000.0	1134.0	113.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

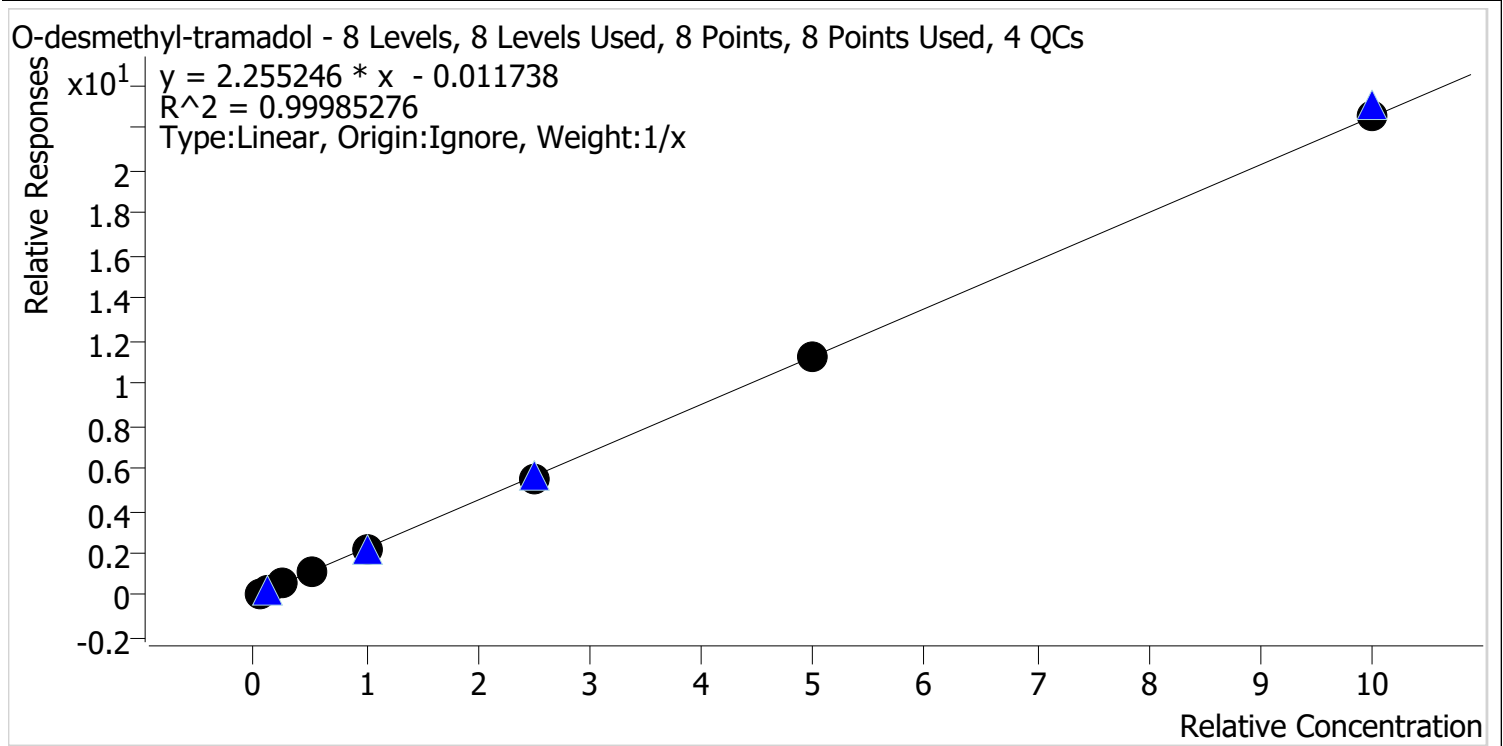
Noroxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.5	90.6
cal 2	2	✓	10.0	10.1	101.1
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	51.7	103.5
cal 5	5	✓	100.0	103.5	103.5
cal 6	6	✓	250.0	250.5	100.2
cal 7	7	✓	500.0	505.3	101.1
cal 8	8	✓	1000.0	989.1	98.9

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

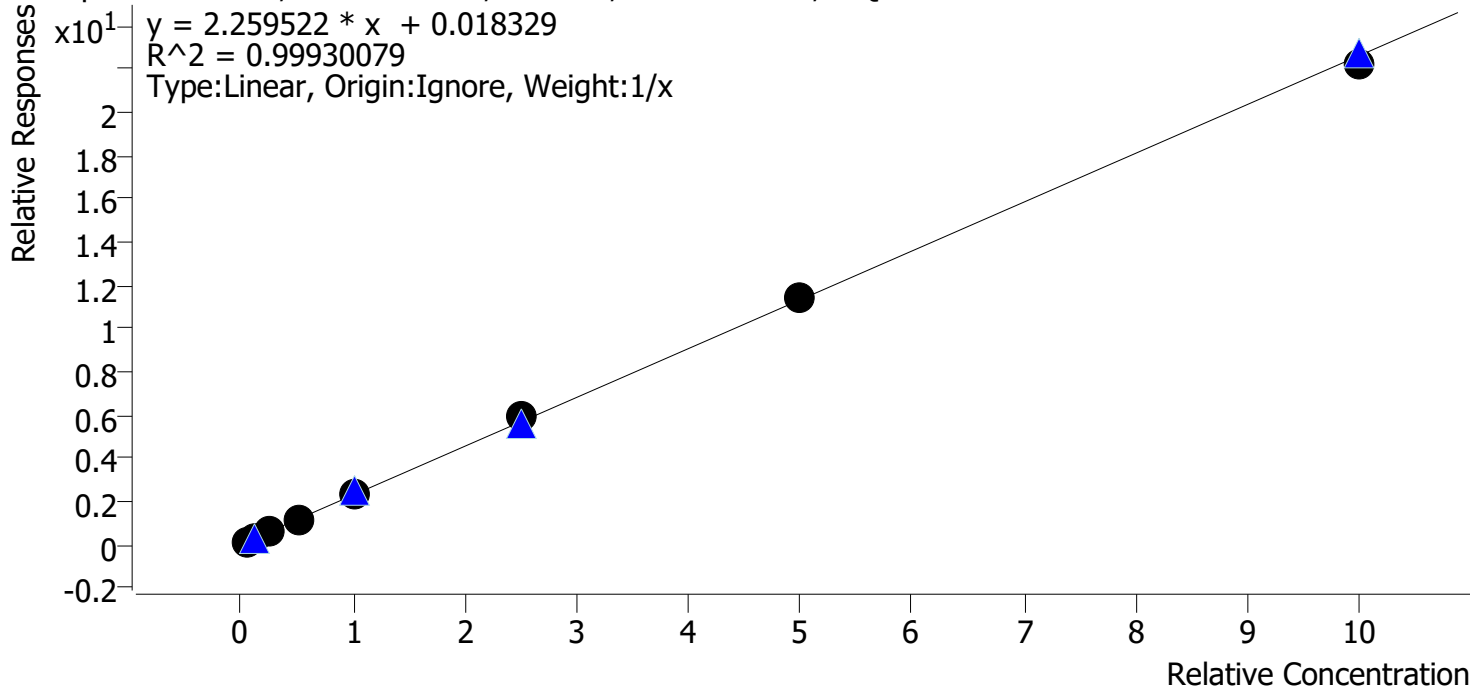


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	106.3
cal 2	2	✓	10.0	10.2	102.4
cal 3	3	✓	25.0	24.6	98.4
cal 4	4	✓	50.0	47.6	95.1
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	247.1	98.8
cal 7	7	✓	500.0	501.2	100.2
cal 8	8	✓	1000.0	1005.9	100.6

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.3	86.6
cal 2	2	✓	10.0	9.8	97.7
cal 3	3	✓	25.0	26.7	106.7
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	105.5	105.5
cal 6	6	✓	250.0	257.5	103.0
cal 7	7	✓	500.0	506.1	101.2
cal 8	8	✓	1000.0	979.5	97.9

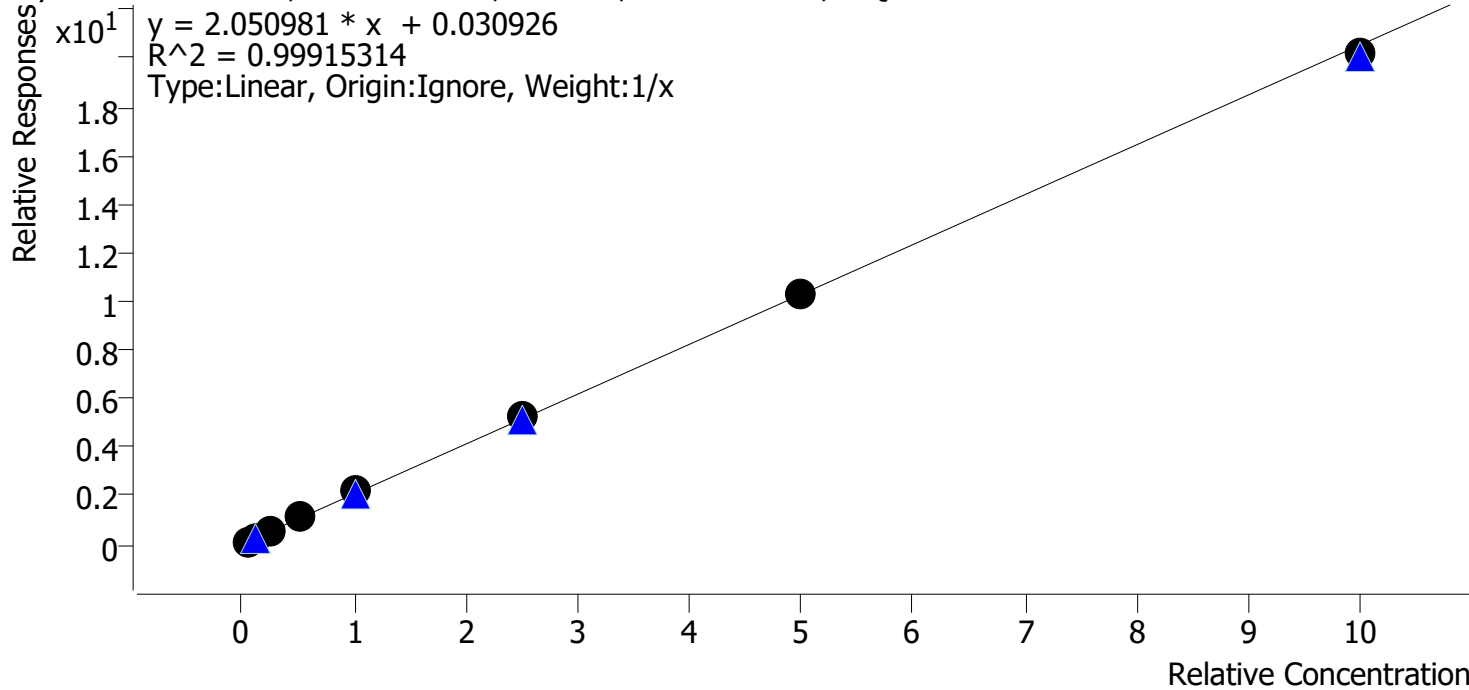


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

Oxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



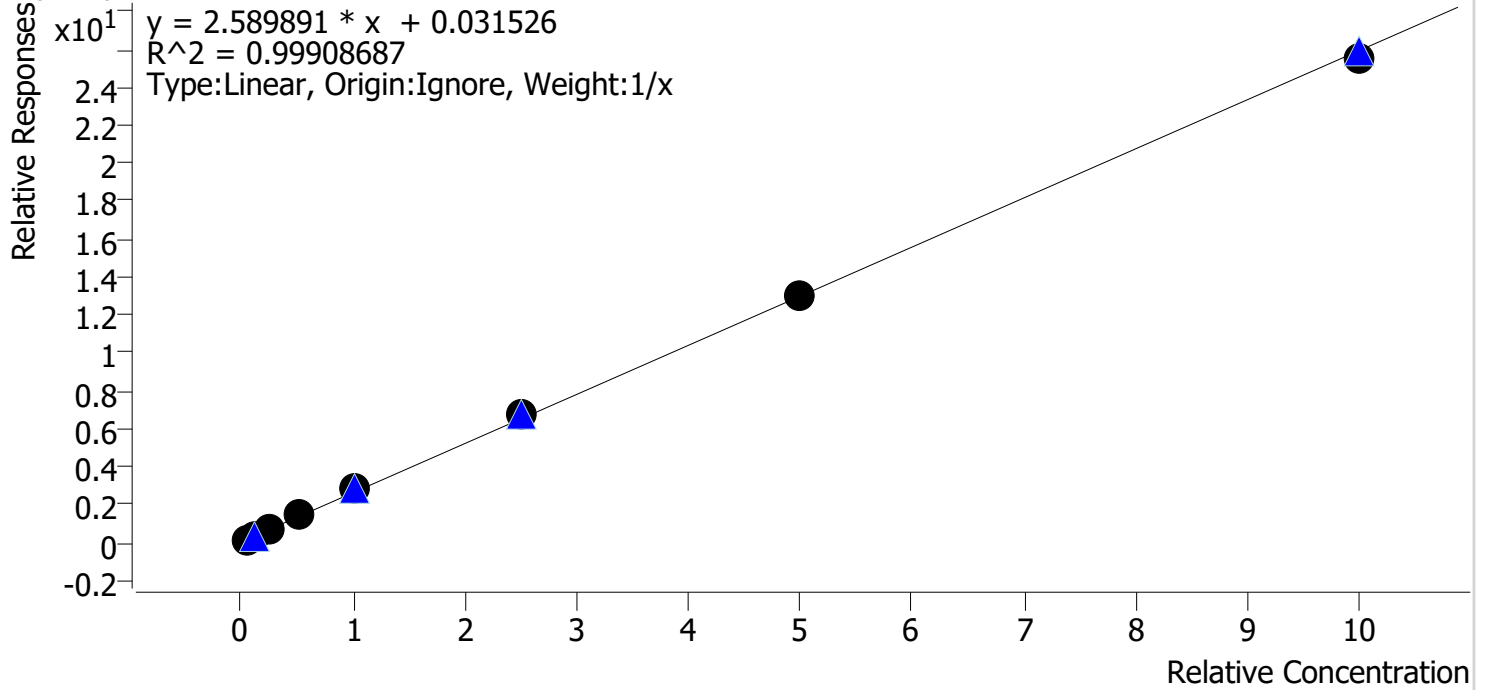
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.1	82.4
cal 2	2	✓	10.0	9.8	98.2
cal 3	3	✓	25.0	26.1	104.2
cal 4	4	✓	50.0	53.2	106.3
cal 5	5	✓	100.0	108.3	108.3
cal 6	6	✓	250.0	255.5	102.2
cal 7	7	✓	500.0	500.2	100.0
cal 8	8	✓	1000.0	982.9	98.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

Oxymorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.1	81.9
cal 2	2	✓	10.0	9.9	99.4
cal 3	3	✓	25.0	26.1	104.6
cal 4	4	✓	50.0	52.4	104.7
cal 5	5	✓	100.0	108.0	108.0
cal 6	6	✓	250.0	259.2	103.7
cal 7	7	✓	500.0	497.4	99.5
cal 8	8	✓	1000.0	982.8	98.3

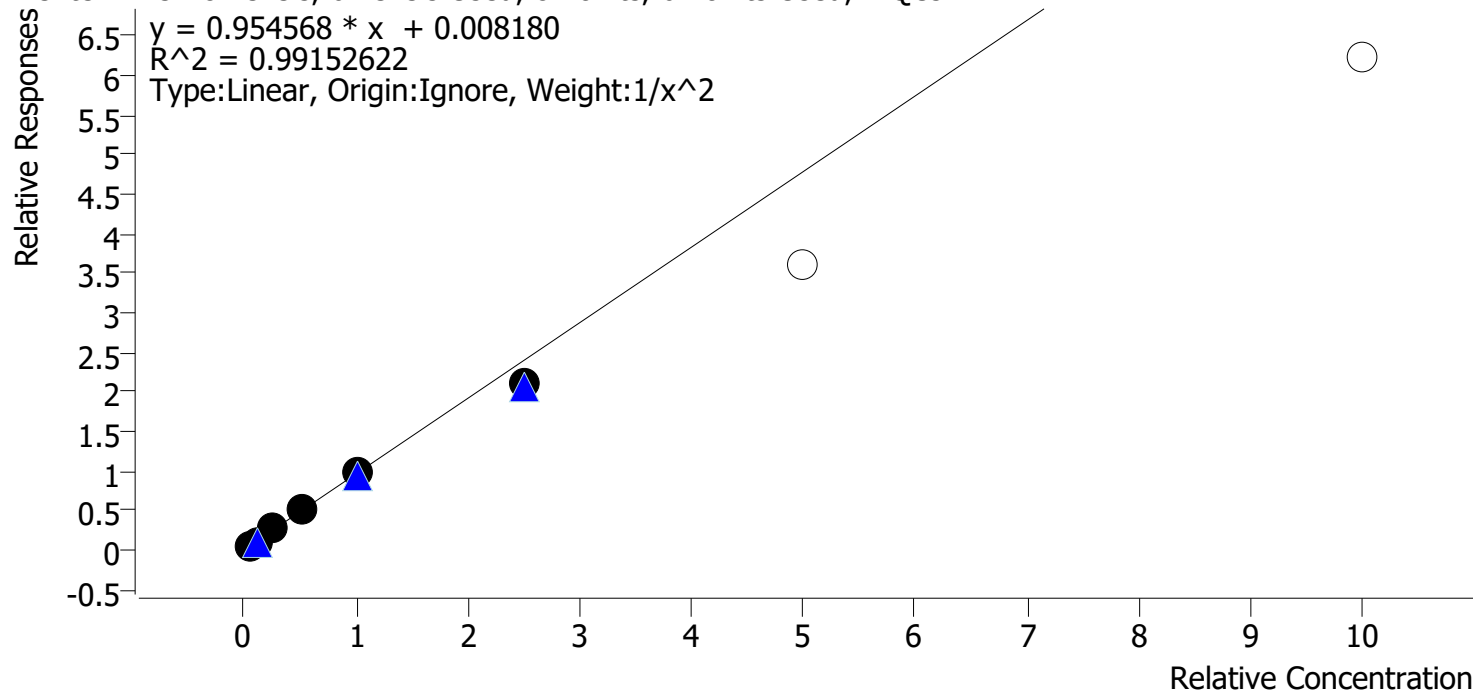
# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine

**Internal Standard** Phentermine-D5

Phentermine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.5
cal 2	2	✓	10.0	10.6	106.0
cal 3	3	✓	25.0	26.7	107.0
cal 4	4	✓	50.0	51.9	103.8
cal 5	5	✓	100.0	100.6	100.6
cal 6	6	✓	250.0	218.0	87.2
cal 7	7	x	500.0	377.4	75.5
cal 8	8	x	1000.0	650.8	65.1

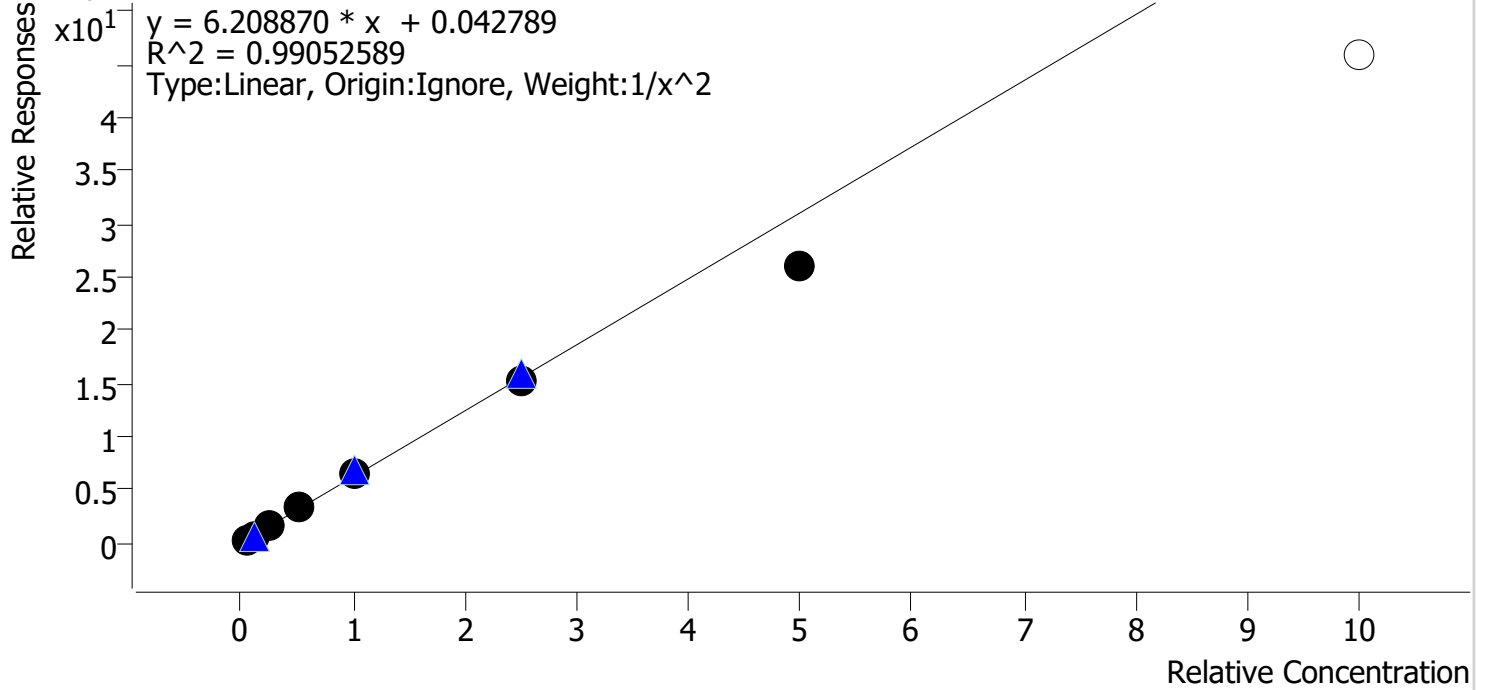


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

Quetiapine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

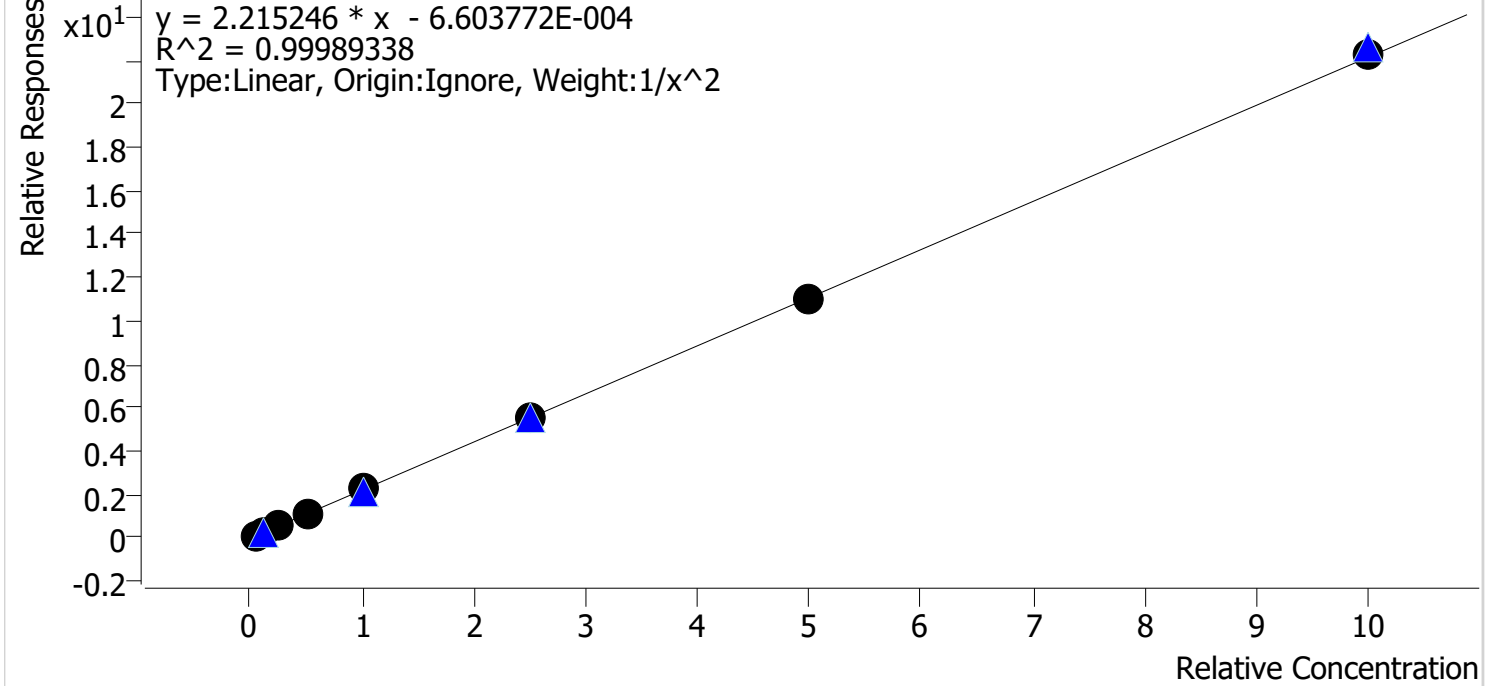


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.9
cal 2	2	✓	10.0	10.7	107.1
cal 3	3	✓	25.0	26.1	104.6
cal 4	4	✓	50.0	52.5	104.9
cal 5	5	✓	100.0	106.1	106.1
cal 6	6	✓	250.0	245.1	98.0
cal 7	7	✓	500.0	421.5	84.3
cal 8	8	✗	1000.0	740.3	74.0

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

Sertraline - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



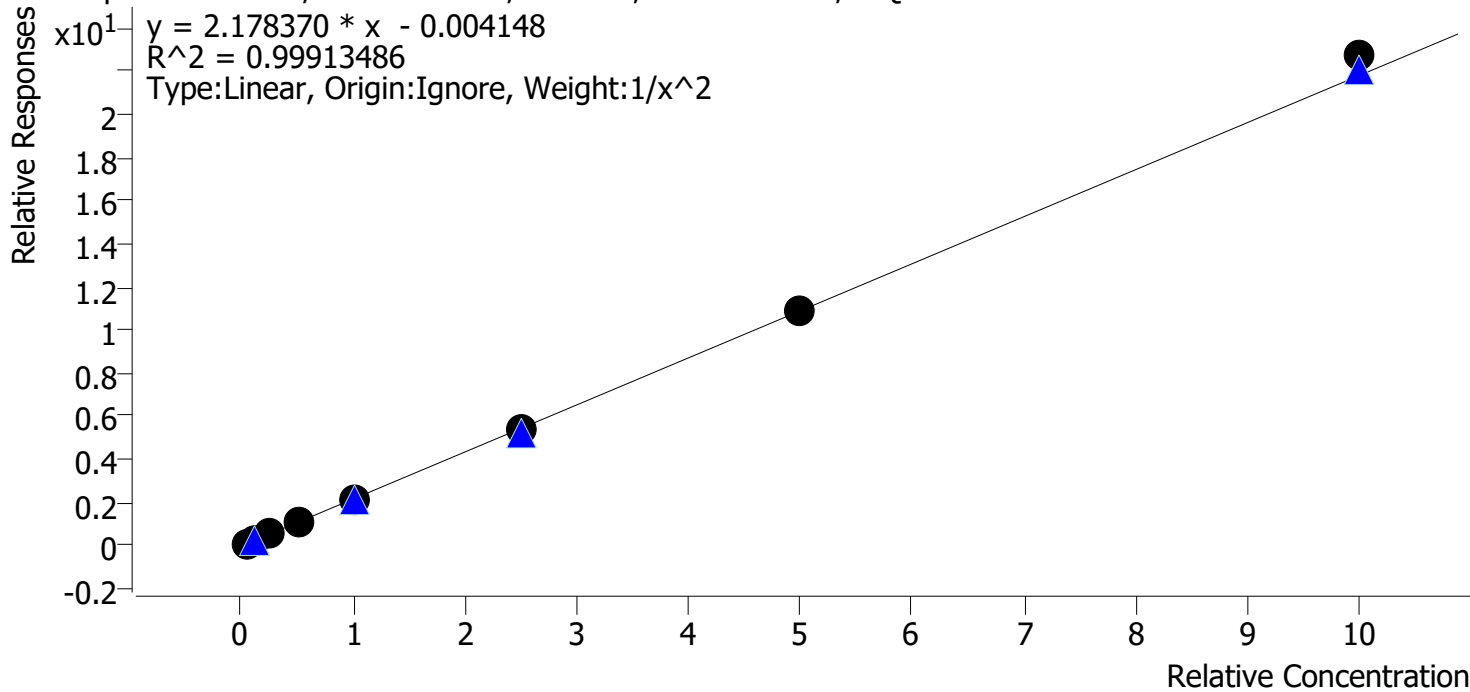
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	9.9	99.4
cal 3	3	✓	25.0	25.2	100.9
cal 4	4	✓	50.0	49.1	98.2
cal 5	5	✓	100.0	100.9	100.9
cal 6	6	✓	250.0	249.1	99.6
cal 7	7	✓	500.0	500.5	100.1
cal 8	8	✓	1000.0	1005.6	100.6

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	7/17/2019 4:28 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Temazepam	<b>Internal Standard</b>	Temazepam-D5

Temazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

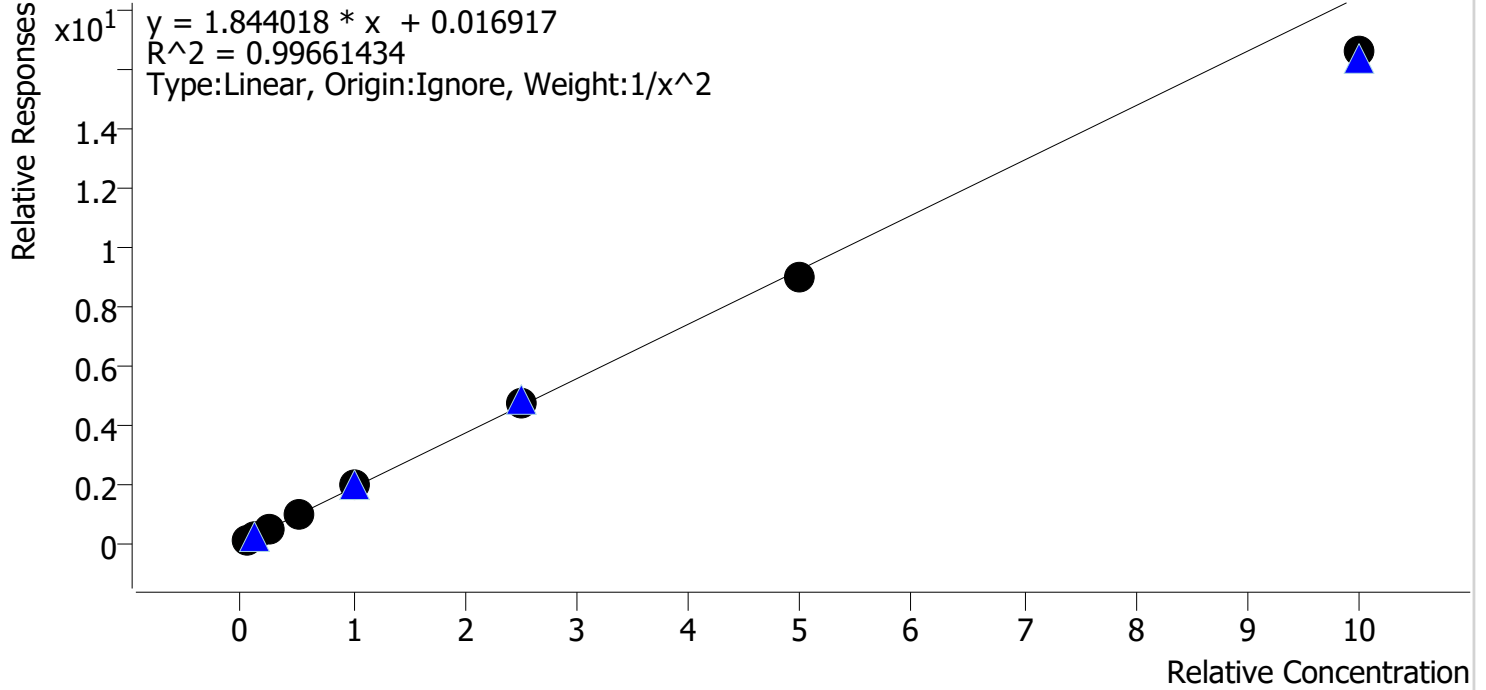


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.2
cal 2	2	✓	10.0	10.3	103.3
cal 3	3	✓	25.0	24.4	97.6
cal 4	4	✓	50.0	48.6	97.2
cal 5	5	✓	100.0	98.5	98.5
cal 6	6	✓	250.0	250.5	100.2
cal 7	7	✓	500.0	499.1	99.8
cal 8	8	✓	1000.0	1042.5	104.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

Tramadol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.9
cal 2	2	✓	10.0	10.4	103.7
cal 3	3	✓	25.0	26.1	104.2
cal 4	4	✓	50.0	51.6	103.2
cal 5	5	✓	100.0	103.5	103.5
cal 6	6	✓	250.0	254.9	102.0
cal 7	7	✓	500.0	483.5	96.7
cal 8	8	✓	1000.0	899.3	89.9

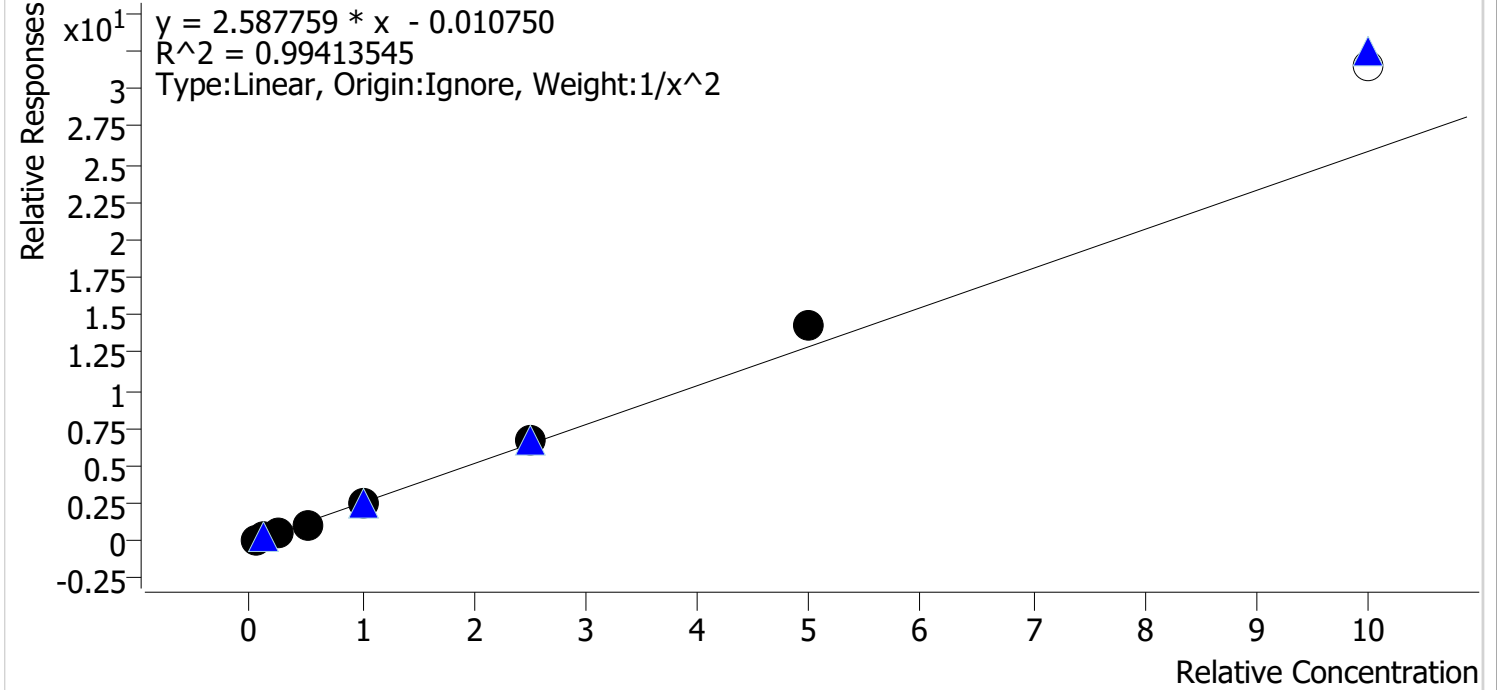


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone

**Internal Standard** Trazodone-D6

Trazodone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

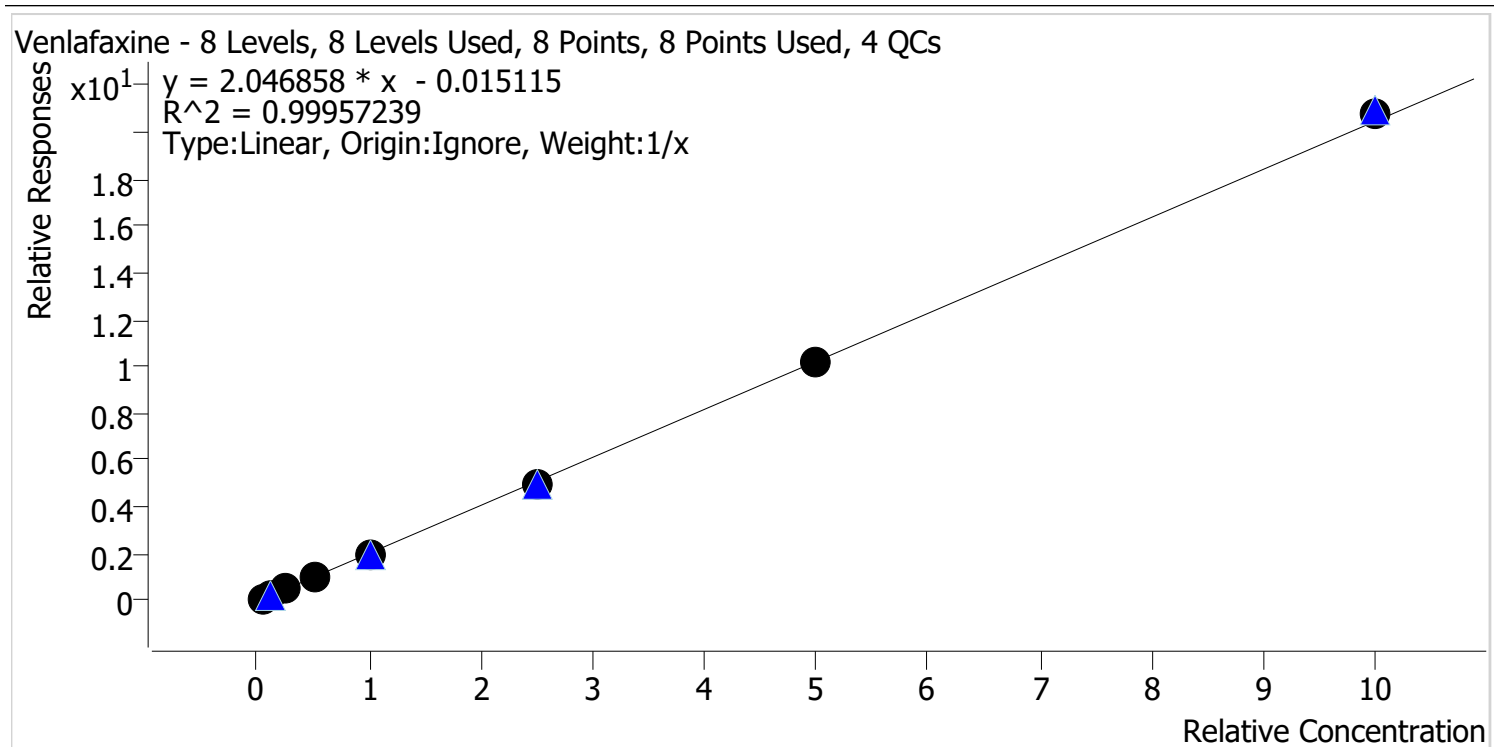


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.9
cal 2	2	✓	10.0	10.1	100.7
cal 3	3	✓	25.0	23.0	92.1
cal 4	4	✓	50.0	46.2	92.3
cal 5	5	✓	100.0	98.1	98.1
cal 6	6	✓	250.0	261.9	104.8
cal 7	7	✓	500.0	550.4	110.1
cal 8	8	✗	1000.0	1218.5	121.8

# Compound Calibration Report

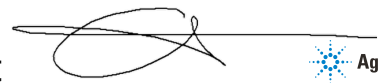
**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine

**Internal Standard** Venlafaxine-D6



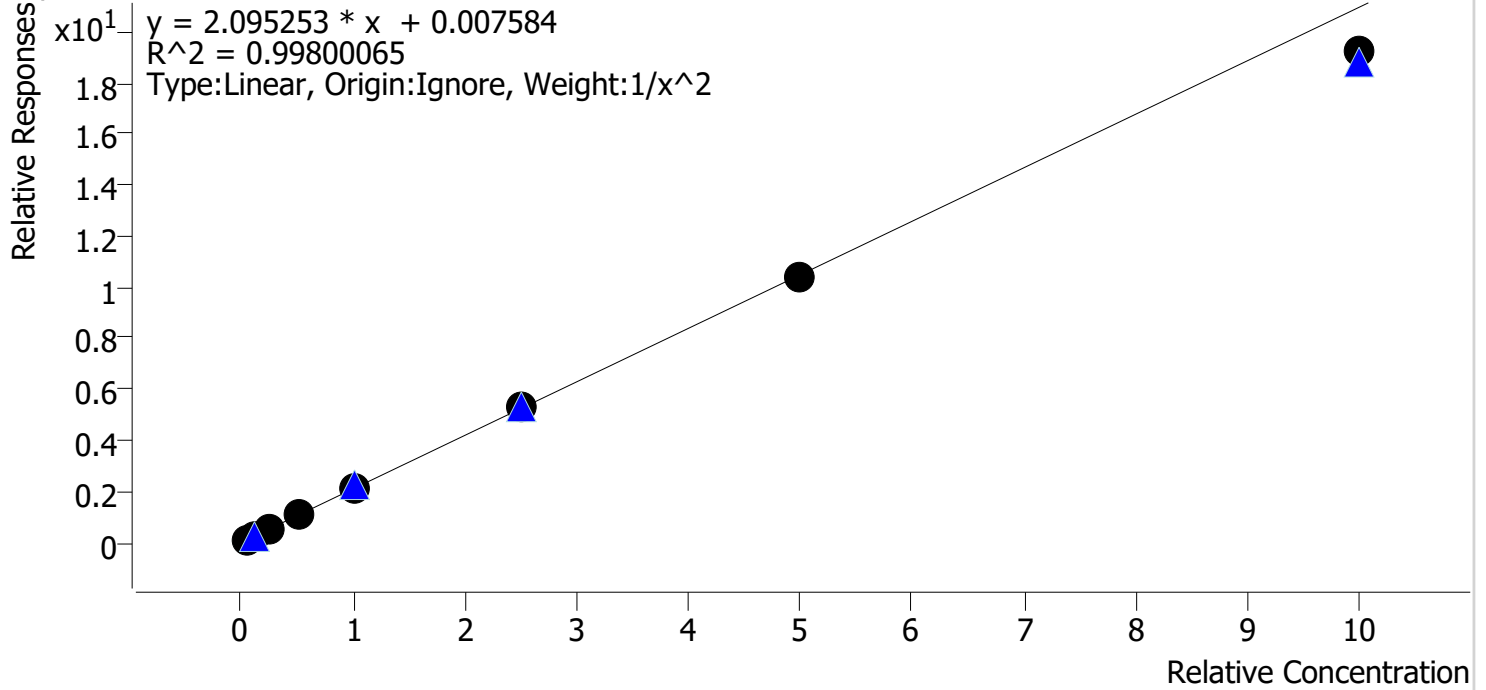
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	109.2
cal 2	2	✓	10.0	10.4	103.9
cal 3	3	✓	25.0	24.2	96.8
cal 4	4	✓	50.0	47.4	94.9
cal 5	5	✓	100.0	97.2	97.2
cal 6	6	✓	250.0	242.8	97.1
cal 7	7	✓	500.0	497.1	99.4
cal 8	8	✓	1000.0	1015.5	101.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
**Last Cal. Update** 7/17/2019 4:28 PM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

Zolpidem - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.7
cal 2	2	✓	10.0	10.3	102.9
cal 3	3	✓	25.0	25.7	102.9
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	102.9	102.9
cal 6	6	✓	250.0	254.3	101.7
cal 7	7	✓	500.0	493.8	98.8
cal 8	8	✓	1000.0	917.1	91.7

# AM #28 Multi-Drug Quant. Results

## Batch results

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin

## Calibration Last Update

7/17/2019 4:28:23 PM

## Instrument

69679

## Type

Cal

## Acq. Method

mdq p1 cda 121818.m

## Sample Position

P2-A5

## Injection Volume

2

## Acq. Date-Time

7/16/2019 12:30:08 PM

## Sample Info.

## Data File

cal 1.d

## Sample

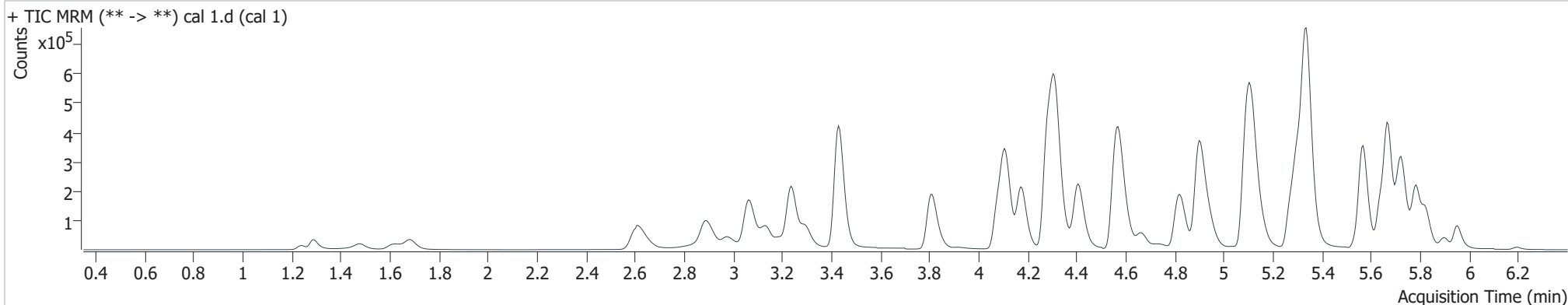
cal 1

## Operator

Anne Nord

## Comment

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	1155	296.1	73.8	78.5	74214	0.504 ng/ml
7-aminoclonazepam	4.318	20674	26277.9	85.3	31403.3	172703	4.693 ng/ml
a-hydroxyalprazolam	5.714	1622	32.6	48.0	1289.4	16974	4.889 ng/ml
alpha-PVP	4.417	61270	1241.8	51.8	3527.4	546028	5.195 ng/ml
Alprazolam	5.787	25991	511.2	110.4	3224.5	170298	4.969 ng/ml
Amphetamine	3.142	102407	1824.4	52.9	446.7	289464	4.702 ng/ml
Benzoyllecgonine	3.946	1641	2175.4	9.9	1.7 Low	11397	5.055 ng/ml
Buprenorphine	5.734	652	36.1	18.3	101.9	53820	0.472 ng/ml
Bupropion	4.840	69031	767.2	60.2	411.2	498181	4.888 ng/ml
Carisoprodol	5.738	21730	2584.8	58.9	272.0	222662	5.016 ng/ml
Citalopram	5.277	48222	4430.9	45.7	1532.9	428119	4.804 ng/ml
Clonazepam	5.638	8984	9124.0	30.6	1161.3	28966	4.757 ng/ml
Cocaine	4.312	54556	89857.1	43.1	503.3	984976	5.092 ng/ml
Codeine	2.668	7461	259.3	104.6	4819.1	65814	4.761 ng/ml
Cyclobenzaprine	5.640	46410	124873.4	10.5	74.0	357624	5.097 ng/ml
Dextromethorphan	5.316	34400	10189.2	73.5	2419.6	338529	4.988 ng/ml
Dextrorphan	4.177	20926	39645.7	213.5	75875.7	494662	5.077 ng/ml
Diazepam	5.957	15119	2810.2	87.4	496.9	152332	4.392 ng/ml

cal 1

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.637	18227	713.1	63.9	423.4	203771	4.794 ng/ml
Diphenhydramine	5.342	155260	14530.1	33.9	305.9	1549555	5.500 ng/ml
Doxylamine	4.584	144460	241.7	97.2	8082.0	1249430	4.899 ng/ml
EDDP	5.305	18655	20137.8	244.3	641.4	467512	4.920 ng/ml
Fentanyl	5.138	5506	172.6	67.4	348.3	530146	0.503 ng/ml
Fluoxetine	5.721	55634	5061.6	8.9	3463.6	411327	5.047 ng/ml
Hydrocodone	3.094	20381	174.1	40.1	259.4	192961	4.117 ng/ml
Hydromorphone	1.693	13046	2681.9	78.9	24.7	102352	4.884 ng/ml
Ketamine	4.097	47706	397.6	36.9	38.1	451667	4.827 ng/ml
Lamotrigine	4.350	5856	902.4	83.9	4153.5	338529	4.848 ng/ml
Lorazepam	5.761	3816	229.3	53.7	30.4	170298	4.802 ng/ml
Meprobamate	4.968	14386	1063.4	28.4	46.6	140421	5.022 ng/ml
Methadone	5.669	83749	3414.1	45.2	886.6	813361	5.414 ng/ml
Methamphetamine	3.299	101572	317.2	41.1	164.5	649979	4.668 ng/ml
Metoprolol	4.374	12988	1161.1	101.2	3222.1	1549555	4.735 ng/ml
Mirtazapine	4.666	87118	3197.2	47.6	154.7	813361	4.969 ng/ml
Mitragynine	5.265	13161	1961.3	36.1	4668.5	813361	4.854 ng/ml
Morphine	1.242	4038	29916.8	23.2	3647.8	10849	4.636 ng/ml
Norbuprenorphine	5.045	210	202.4	118.2	299.4	13923	0.421 ng/ml
Nordiazepam	5.907	10855	11099.9	60.5	348.2	70350	4.831 ng/ml
Norfentanyl	4.137	8777	354.7	41.3	104.9	753852	0.518 ng/ml
Norhydrocodone	3.135	1332	357.2	40.9	6.4 <b>Low</b>	60420	5.357 ng/ml
Noroxycodone	2.997	16146	12.9	42.2	461.4	119317	4.532 ng/ml
O-desmethyl-tramadol	3.435	116124	8713.9	7.1	1140.6	1073627	5.316 ng/ml
Oxazepam	5.768	5674	45.0	75.0	55.2	48838	4.330 ng/ml
Oxycodone	2.915	40598	1251.7	28.2	1077.1	351578	4.122 ng/ml
Oxymorphone	1.480	9989	1106.9	45.1	2049.0	72633	4.093 ng/ml
Phentermine	3.843	30192	84.3	5.4	128.1	561826	4.773 ng/ml
Promethazine	5.568	77384	839.4	33.3	411.1	660021	5.352 ng/ml
Quetiapine	5.560	54642	24763.6	59.9	46933.1	161934	4.746 ng/ml
Sertraline	5.788	23569	9354.7	103.4	21916.3	213539	5.012 ng/ml
Temazepam	5.829	23815	618.8	31.1	75.1	229278	4.959 ng/ml
Tramadol	4.293	117912	18528.1	3.5	43.3	1109849	4.844 ng/ml
Trazodone	5.153	61285	5923.4	79.2	41768.3	506245	5.094 ng/ml
Venlafaxine	5.093	92959	3592.8	38.6	316.0	962368	5.458 ng/ml
Zolpidem	4.919	112593	135983.9	30.5	6784.0	1024047	4.886 ng/ml

# AM #28 Multi-Drug Quant. Results

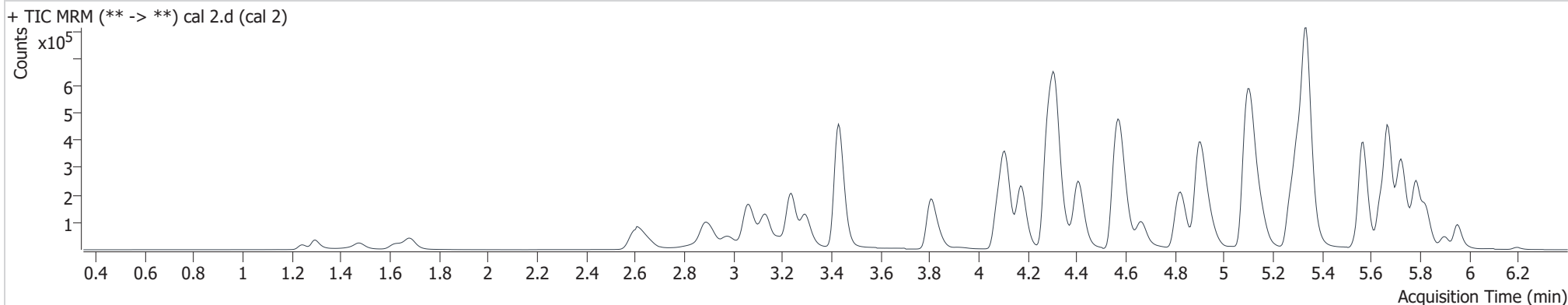
**Batch results**  
**Calibration Last Update**

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**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdq p1 cda 121818.m  
**Sample Position** P2-B5  
**Injection Volume** 2  
**Acq. Date-Time** 7/16/2019 12:40:57 PM  
**Sample Info.**

**Data File** cal 2.d  
**Sample** cal 2  
**Operator** Anne Nord  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	2372	2981.0	74.4	3142.2	72967	1.019 ng/ml
7-aminoclonazepam	4.318	43312	65213.3	83.1	47111.0	170638	10.756 ng/ml
a-hydroxyalprazolam	5.714	3176	122.2	54.6	643.6	16753	10.356 ng/ml
alpha-PVP	4.417	120914	2517.1	52.6	206.1	527230	10.290 ng/ml
Alprazolam	5.787	54021	4191.4	108.1	592.7	171344	10.340 ng/ml
Amphetamine	3.137	200278	419.9	53.5	126.9	282042	10.829 ng/ml
Benzoyllecgonine	3.946	3298	7010.6	9.0	21.3	11590	10.216 ng/ml
Buprenorphine	5.734	1203	402.3	19.3	332.3	46371	1.092 ng/ml
Bupropion	4.835	138863	1245.0	59.6	1119.7	481582	10.357 ng/ml
Carisoprodol	5.738	44645	39014.7	62.0	283.4	221387	10.065 ng/ml
Citalopram	5.277	93061	1348.0	46.4	92605.2	408481	9.966 ng/ml
Clonazepam	5.638	17567	9528.0	34.1	711.5	28276	10.570 ng/ml
Cocaine	4.312	104471	242400.2	44.6	2716.8	954148	10.081 ng/ml
Codeine	2.663	15113	181.2	104.2	281.3	63989	10.733 ng/ml
Cyclobenzaprine	5.640	86596	62101.2	9.6	1476.2	320694	10.357 ng/ml
Dextromethorphan	5.316	63117	664.1	77.0	72268.8	307530	10.067 ng/ml
Dextrorphan	4.177	41426	74964.1	213.7	1582.1	486037	10.162 ng/ml
Diazepam	5.957	30721	1184.4	84.7	1455.0	147368	10.161 ng/ml

cal 2

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.637	36227	1523.0	64.9	123.0	202056	10.451 ng/ml
Diphenhydramine	5.342	301324	7528.6	34.9	139160.5	1448319	10.517 ng/ml
Doxylamine	4.584	296093	265519.2	95.8	6880.6	1229916	10.312 ng/ml
EDDP	5.305	42149	74566.5	238.4	1198.1	479108	10.401 ng/ml
Fentanyl	5.132	10172	244.5	75.9	950.7	484764	1.009 ng/ml
Fluoxetine	5.721	102531	5708.1	8.4	398.5	369506	10.183 ng/ml
Hydrocodone	3.089	42416	18.2	37.7	1466.7	235897	9.068 ng/ml
Hydromorphone	1.688	39952	5353.8	74.8	501.3	143135	10.391 ng/ml
Ketamine	4.097	97128	3813.7	36.9	601.8	446056	10.470 ng/ml
Lamotrigine	4.350	10950	198.7	88.2	1683.8	307530	10.399 ng/ml
Lorazepam	5.761	7741	22.4	58.9	35.6	171344	10.549 ng/ml
Meprobamate	4.968	28640	10666.0	30.1	857.1	138148	10.123 ng/ml
Methadone	5.669	153295	2670.9	47.6	6063.7	754668	10.232 ng/ml
Methamphetamine	3.299	177688	499.2	40.6	319.5	612869	10.735 ng/ml
Metoprolol	4.369	26999	291.9	97.5	276.3	1448319	10.782 ng/ml
Mirtazapine	4.666	175833	162120.4	46.4	16706.3	754668	10.424 ng/ml
Mitragynine	5.265	24185	25224.6	38.5	946.8	754668	10.328 ng/ml
Morphine	1.247	7958	17421.2	23.4	529.9	10537	10.125 ng/ml
Norbuprenorphine	5.039	445	532.9	91.6	213.3	13441	1.244 ng/ml
Nordiazepam	5.907	22091	4516.2	60.0	8815.2	68435	10.463 ng/ml
Norfentanyl	4.132	17962	1059.1	40.4	320.8	744289	0.984 ng/ml
Norhydrocodone	3.135	2900	16.5	39.0	260.8	57075	9.448 ng/ml
Noroxycodone	2.997	32788	793.3	42.0	2081.7	116757	10.111 ng/ml
O-desmethyl-tramadol	3.435	230799	13221.8	6.9	1528.8	1052893	10.240 ng/ml
Oxazepam	5.768	11852	121.5	73.1	77.2	49581	9.768 ng/ml
Oxycodone	2.915	78133	3001.4	29.6	1940.1	336320	9.819 ng/ml
Oxymorphone	1.480	21950	147324.6	43.7	4072.6	75976	9.938 ng/ml
Phentermine	3.843	58919	125.1	5.1	119.5	538781	10.599 ng/ml
Promethazine	5.568	143104	3185.9	31.7	935.6	589868	10.398 ng/ml
Quetiapine	5.560	111194	104112.8	58.6	34802.1	157054	10.714 ng/ml
Sertraline	5.788	41936	1952.0	103.1	50418.2	190978	9.942 ng/ml
Temazepam	5.829	50088	852.1	29.0	93.8	226774	10.330 ng/ml
Tramadol	4.293	228315	1063.7	3.5	374.6	1097405	10.365 ng/ml
Trazodone	5.153	123019	33765.6	77.2	91620.8	492180	10.074 ng/ml
Venlafaxine	5.093	185721	9833.5	38.8	562.0	940393	10.387 ng/ml
Zolpidem	4.919	224836	464971.9	31.0	30853.6	1007635	10.287 ng/ml

# AM #28 Multi-Drug Quant. Results

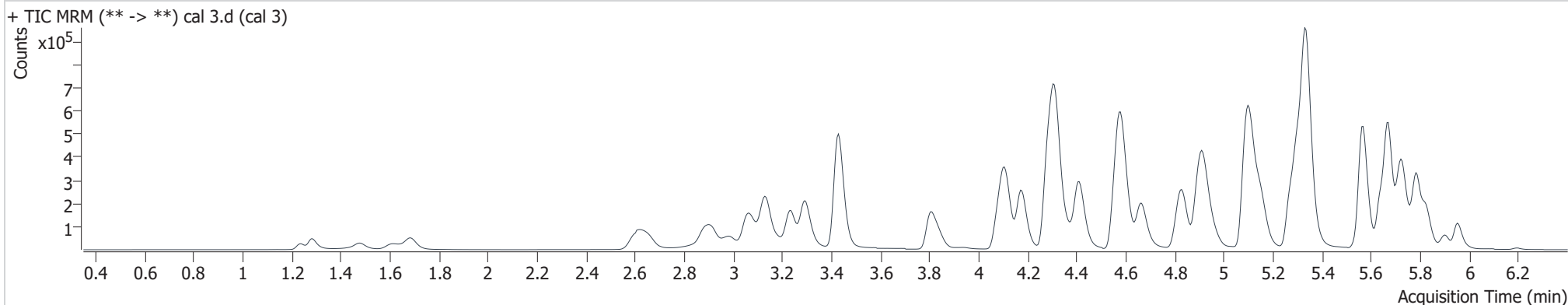
Batch results  
Calibration Last Update

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Type Cal  
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Sample Position P2-C5  
Injection Volume 2  
Acq. Date-Time 7/16/2019 12:51:46 PM  
Sample Info.

Data File cal 3.d  
Sample cal 3  
Operator Anne Nord  
Comment

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.199	4784	2163.4	78.4	7829.9	63152	2.334 ng/ml
7-aminoclonazepam	4.318	87976	51094.1	84.6	361.6	144536	26.798 ng/ml
a-hydroxyalprazolam	5.714	7095	326.1	56.4	80.6	15920	25.246 ng/ml
alpha-PVP	4.417	252208	5339.1	52.7	534.2	451961	24.587 ng/ml
Alprazolam	5.787	110314	2563.8	108.8	2202.0	146371	24.816 ng/ml
Amphetamine	3.137	411298	2758.3	54.0	2409.3	248636	27.063 ng/ml
Benzoyllecgonine	3.941	7154	161.6	8.8	194.3	10655	24.419 ng/ml
Buprenorphine	5.729	2568	214.0	18.3	348.3	42991	2.605 ng/ml
Bupropion	4.835	287866	1870.9	60.3	3336.3	412012	25.341 ng/ml
Carisoprodol	5.738	94159	74352.5	60.2	454.6	189038	24.444 ng/ml
Citalopram	5.272	208761	9838.9	45.8	309.0	360788	25.686 ng/ml
Clonazepam	5.638	39370	12927.1	33.4	15615.7	26100	27.146 ng/ml
Cocaine	4.312	218941	248257.5	44.1	21882.4	823356	24.508 ng/ml
Codeine	2.663	30936	101.3	104.4	1042.0	56321	25.959 ng/ml
Cyclobenzaprine	5.640	196628	1367.3	10.1	564.1	297950	24.982 ng/ml
Dextromethorphan	5.316	141406	15458.9	74.8	493.9	277146	25.015 ng/ml
Dextrorphan	4.177	87739	177.7	210.2	114051.7	415804	25.059 ng/ml
Diazepam	5.957	67833	5581.8	83.1	4379.1	133590	25.971 ng/ml

cal 3

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.637	76937	8505.8	65.1	25067.1	176743	26.571 ng/ml
Diphenhydramine	5.337	658823	48538.4	33.2	37525.6	1310089	24.232 ng/ml
Doxylamine	4.584	616282	160446.7	97.8	6042.4	1047912	25.339 ng/ml
EDDP	5.305	88810	49827.9	242.2	3245.8	412734	24.907 ng/ml
Fentanyl	5.132	22886	61689.1	73.4	37739.5	450785	2.431 ng/ml
Fluoxetine	5.721	233288	8195.2	8.8	6187.5	340795	24.880 ng/ml
Hydrocodone	3.089	88769	2771.3	38.7	2799.1	204654	26.018 ng/ml
Hydromorphone	1.688	60280	600.7	65.8	1749.2	86781	25.480 ng/ml
Ketamine	4.097	199793	34667.4	37.4	1479.7	379716	25.990 ng/ml
Lamotrigine	4.350	22902	753.0	89.3	7059.0	277146	24.660 ng/ml
Lorazepam	5.761	16215	4880.0	59.6	95.4	146371	27.106 ng/ml
Meprobamate	4.968	61216	87116.0	30.3	1978.5	122897	24.268 ng/ml
Methadone	5.669	346755	26503.1	46.7	5592.7	689453	24.652 ng/ml
Methamphetamine	3.294	320610	363.0	40.0	166.9	490714	27.234 ng/ml
Metoprolol	4.369	57000	1473.1	95.7	7272.1	1310089	25.438 ng/ml
Mirtazapine	4.666	363998	11505.8	46.4	14579.5	689453	23.206 ng/ml
Mitragynine	5.260	53683	68535.4	38.7	18336.6	689453	26.131 ng/ml
Morphine	1.242	17171	94961.8	23.8	5483.0	9492	25.229 ng/ml
Norbuprenorphine	5.039	696	1047.5	103.9	121.6	12234	2.331 ng/ml
Nordiazepam	5.907	48895	91223.2	60.7	63584.6	62072	26.002 ng/ml
Norfentanyl	4.132	37322	18592.5	40.0	366.9	629059	2.298 ng/ml
Norhydrocodone	3.135	6481	298.9	41.8	844.9	49661	20.782 ng/ml
Noroxycodone	2.992	67807	455.0	43.2	821.4	100254	25.278 ng/ml
O-desmethyl-tramadol	3.435	490831	47985.8	6.6	3504.0	903608	24.606 ng/ml
Oxazepam	5.768	28238	338.5	70.4	246.0	45466	26.676 ng/ml
Oxycodone	2.915	165825	323.4	29.4	4205.1	293287	26.060 ng/ml
Oxymorphone	1.480	43221	236808.5	41.0	3852.9	60985	26.148 ng/ml
Phentermine	3.843	120643	280.8	5.1	156.8	457875	26.746 ng/ml
Promethazine	5.568	327819	77480.0	31.9	738.3	552509	24.517 ng/ml
Quetiapine	5.560	226511	159410.7	60.1	10992.8	135955	26.145 ng/ml
Sertraline	5.788	93310	3088.3	100.8	69405.5	167191	25.224 ng/ml
Temazepam	5.829	108598	4651.2	31.5	202.1	206017	24.389 ng/ml
Tramadol	4.293	472607	38788.4	3.6	455.0	949947	26.062 ng/ml
Trazodone	5.153	255557	43998.2	80.5	208344.8	436693	23.030 ng/ml
Venlafaxine	5.093	390360	6372.5	40.0	1822.3	812546	24.209 ng/ml
Zolpidem	4.919	470916	64760.0	30.9	935.7	861272	25.734 ng/ml

# AM #28 Multi-Drug Quant. Results

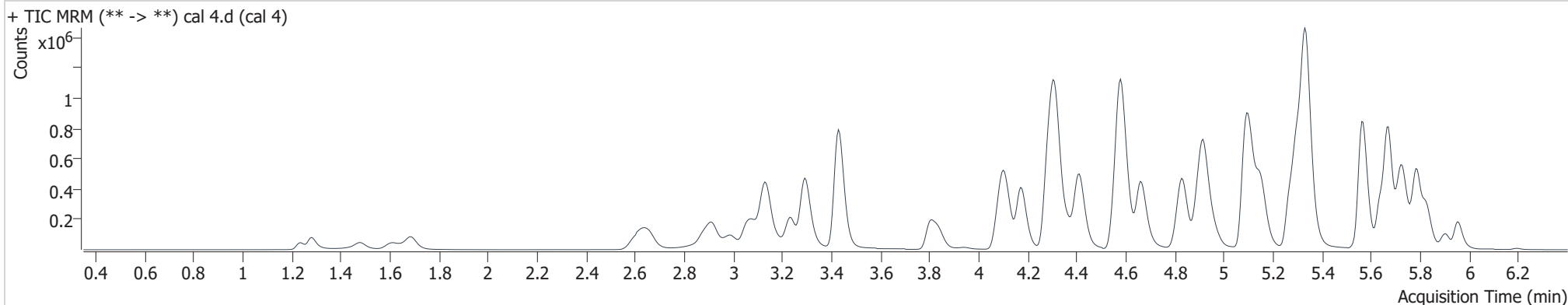
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Calibration Last Update

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Type Cal  
Acq. Method mdq p1 cda 121818.m  
Sample Position P2-D5  
Injection Volume 2  
Acq. Date-Time 7/16/2019 1:02:33 PM  
Sample Info.

Data File cal 4.d  
Sample cal 4  
Operator Anne Nord  
Comment

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.199	11535	21203.8	73.8	1007.9	73822	4.780 ng/ml
7-aminoclonazepam	4.318	193878	66537.5	84.1	32228.7	162183	53.324 ng/ml
a-hydroxyalprazolam	5.714	15940	1288.2	58.6	1320.7	18041	50.709 ng/ml
alpha-PVP	4.417	586332	4825.0	52.6	7434.4	529562	48.475 ng/ml
Alprazolam	5.787	247704	197.7	111.2	1398.1	166707	48.993 ng/ml
Amphetamine	3.137	853927	1550.3	53.5	2072.6	273712	52.264 ng/ml
Benzoyllecgonine	3.941	15133	79.8	8.7	708.3	11803	46.836 ng/ml
Buprenorphine	5.734	5306	497.6	18.0	939.4	45902	5.108 ng/ml
Bupropion	4.835	661303	1761.9	60.2	2285.5	477587	50.390 ng/ml
Carisoprodol	5.738	211083	62219.9	59.2	1046.8	211061	48.796 ng/ml
Citalopram	5.272	423375	21552.2	46.5	12411.1	382569	49.348 ng/ml
Clonazepam	5.638	86629	1217.0	33.0	34184.9	30816	51.488 ng/ml
Cocaine	4.312	502162	1004.9	43.9	3550.9	939464	49.281 ng/ml
Codeine	2.663	67336	841.1	108.1	2827.3	63678	50.672 ng/ml
Cyclobenzaprine	5.640	378554	50969.2	10.6	1540.2	293884	48.543 ng/ml
Dextromethorphan	5.311	290527	24432.7	75.9	313784.0	289866	49.133 ng/ml
Dextrorphan	4.177	197708	5852.1	216.8	189200.7	482907	48.558 ng/ml
Diazepam	5.957	147706	12884.6	85.8	3353.7	150997	50.820 ng/ml

cal 4

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.637	175456	32767.8	66.0	318.0	205707	52.869 ng/ml
Diphenhydramine	5.337	1389454	967.8	34.5	33034.8	1418141	46.415 ng/ml
Doxylamine	4.584	1448754	1560.3	96.9	180995.9	1245122	50.234 ng/ml
EDDP	5.305	215137	1567.7	237.9	710.4	513596	48.136 ng/ml
Fentanyl	5.132	48426	43004.5	72.7	2648.6	482585	4.799 ng/ml
Fluoxetine	5.721	457805	15867.3	8.9	2728.2	338536	48.991 ng/ml
Hydrocodone	3.089	199038	1284.4	39.5	685.9	235156	53.561 ng/ml
Hydromorphone	1.688	131587	7440.2	75.7	9013.0	94168	51.000 ng/ml
Ketamine	4.097	459259	1267.6	37.9	6259.6	449282	50.954 ng/ml
Lamotrigine	4.350	52413	4138.8	86.5	4288.9	289866	54.432 ng/ml
Lorazepam	5.761	33803	1127.7	55.9	203.0	166707	50.323 ng/ml
Meprobamate	4.968	135777	15132.3	29.1	1931.8	136793	48.321 ng/ml
Methadone	5.669	720224	22259.0	46.3	6845.5	739793	47.286 ng/ml
Methamphetamine	3.294	756894	309.1	39.4	508.3	603739	54.488 ng/ml
Metoprolol	4.369	129913	3007.4	96.3	28681.3	1418141	53.787 ng/ml
Mirtazapine	4.666	830718	122150.1	46.7	46715.4	739793	48.989 ng/ml
Mitragynine	5.260	110182	95752.0	37.5	5967.7	739793	50.647 ng/ml
Morphine	1.237	37071	88529.6	23.5	28366.4	10254	51.119 ng/ml
Norbuprenorphine	5.045	1384	1347.0	108.2	438.7	13341	4.467 ng/ml
Nordiazepam	5.907	107603	22553.3	61.4	15793.6	69661	51.300 ng/ml
Norfentanyl	4.132	88271	4195.7	40.3	147.6	746097	4.499 ng/ml
Norhydrocodone	3.135	17746	81.4	40.8	68.6	60777	43.750 ng/ml
Noroxycodone	2.992	153624	263.4	42.5	1695.2	112412	51.747 ng/ml
O-desmethyl-tramadol	3.435	1135539	77224.3	6.5	218.6	1070108	47.573 ng/ml
Oxazepam	5.768	51978	1501.3	73.3	388.8	44676	50.679 ng/ml
Oxycodone	2.915	380208	7579.6	29.2	2711.4	339061	53.166 ng/ml
Oxymorphone	1.480	95047	2454.2	43.4	140451.6	68503	52.356 ng/ml
Phentermine	3.838	270991	476.1	4.8	291.2	538246	51.886 ng/ml
Promethazine	5.568	634375	5475.7	32.3	18739.8	547094	47.311 ng/ml
Quetiapine	5.560	513741	874483.9	58.5	354150.9	155643	52.473 ng/ml
Sertraline	5.788	181469	21260.6	102.4	179616.3	166899	49.112 ng/ml
Temazepam	5.829	251631	5679.6	30.7	1200.1	238648	48.594 ng/ml
Tramadol	4.293	1077532	7630.2	3.5	1568.4	1113157	51.576 ng/ml
Trazodone	5.153	582708	456.8	78.6	18066.2	492233	46.162 ng/ml
Venlafaxine	5.093	899437	6972.9	39.6	2470.3	940859	47.443 ng/ml
Zolpidem	4.919	1101305	726.9	30.7	6208.9	1029379	50.700 ng/ml

# AM #28 Multi-Drug Quant. Results

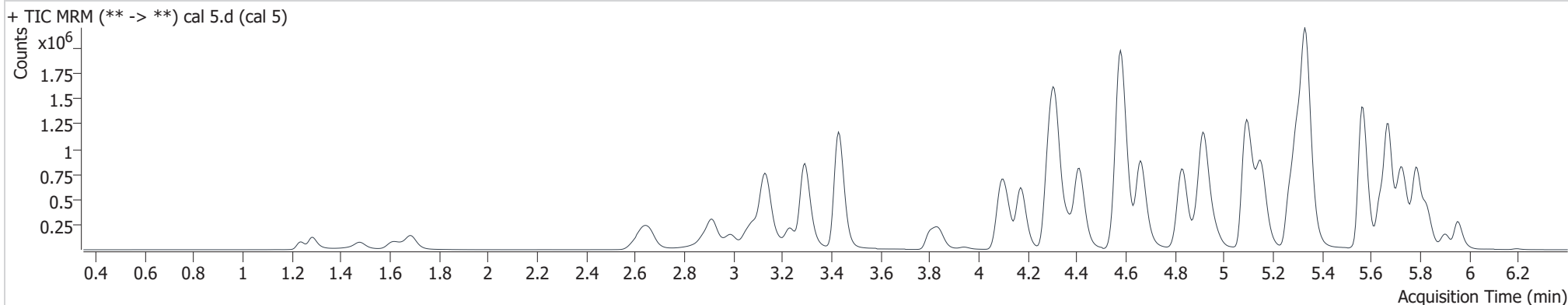
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Type Cal  
Acq. Method mdq p1 cda 121818.m  
Sample Position P2-E5  
Injection Volume 2  
Acq. Date-Time 7/16/2019 1:13:21 PM  
Sample Info.

Data File cal 5.d  
Sample cal 5  
Operator Anne Nord  
Comment

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.199	23350	29864.9	72.7	1154.6	71915	9.900 ng/ml
7-aminoclonazepam	4.318	335170	130613.8	83.5	11540.3	138594	108.610 ng/ml
a-hydroxyalprazolam	5.714	27365	630.7	58.8	9068.4	15230	103.816 ng/ml
alpha-PVP	4.412	1169858	1250.3	52.2	1377.1	512654	99.575 ng/ml
Alprazolam	5.787	451589	6334.8	111.0	5835.8	148723	100.194 ng/ml
Amphetamine	3.132	1549948	11650.9	52.9	7609.8	261437	100.562 ng/ml
Benzoylcegonine	3.941	31913	37414.9	7.8	2929.8	11684	100.038 ng/ml
Buprenorphine	5.734	10389	815.5	15.9	1722.4	45803	10.090 ng/ml
Bupropion	4.835	1318213	1197.3	59.8	6255.9	467498	102.792 ng/ml
Carisoprodol	5.738	382289	67479.4	59.2	5785.5	185705	100.142 ng/ml
Citalopram	5.272	817304	38172.4	47.3	265605.2	358648	101.875 ng/ml
Clonazepam	5.633	147615	2287.6	34.4	45349.6	26388	103.486 ng/ml
Cocaine	4.312	965121	75115.3	43.3	94658.3	878803	101.271 ng/ml
Codeine	2.663	127300	1160.3	105.7	45254.6	57339	107.215 ng/ml
Cyclobenzaprine	5.640	742500	261747.3	10.5	6600.4	280857	99.389 ng/ml
Dextromethorphan	5.311	548272	60721.4	75.6	10562.3	264111	101.755 ng/ml
Dextrorphan	4.171	387764	409839.9	215.4	92437.7	455941	100.797 ng/ml
Diazepam	5.957	278464	2826.4	84.9	10248.2	141002	103.467 ng/ml

cal 5

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.632	337368	43259.3	64.9	1160.7	199942	105.409 ng/ml
Diphenhydramine	5.337	2686640	155212.1	34.1	22661.0	1315826	95.818 ng/ml
Doxylamine	4.579	2897061	147580.7	97.1	138962.1	1211118	103.382 ng/ml
EDDP	5.305	444886	15252.2	237.5	9718.3	508261	100.184 ng/ml
Fentanyl	5.132	97833	52071.8	73.3	105763.0	473326	9.877 ng/ml
Fluoxetine	5.721	881219	113963.9	9.1	4731.5	320462	99.451 ng/ml
Hydrocodone	3.089	385868	1872.7	39.9	582.7	226546	110.751 ng/ml
Hydromorphone	1.688	248507	2406.0	75.9	13518.1	93450	96.826 ng/ml
Ketamine	4.097	894794	152661.7	38.0	559.2	431041	103.980 ng/ml
Lamotrigine	4.345	96669	1518.6	87.7	899.7	264111	110.591 ng/ml
Lorazepam	5.761	53187	1931.1	55.5	415.9	148723	89.407 ng/ml
Meprobamate	4.968	245264	77585.4	29.4	16817.8	122960	97.065 ng/ml
Methadone	5.669	1417961	88794.0	47.4	36694.2	705253	97.163 ng/ml
Methamphetamine	3.294	1412898	3149.1	39.7	1409.1	574799	109.164 ng/ml
Metoprolol	4.369	241980	23137.5	95.9	46595.2	1315826	108.181 ng/ml
Mirtazapine	4.660	1657873	1664.9	46.8	980.9	705253	102.199 ng/ml
Mitragynine	5.260	217713	2354.7	37.5	2949.4	705253	105.756 ng/ml
Morphine	1.242	70377	955.7	24.0	88283.5	9778	102.465 ng/ml
Norbuprenorphine	5.045	3118	4534.8	93.6	2182.2	13338	10.400 ng/ml
Nordiazepam	5.907	187088	161333.9	62.1	5393.1	61471	101.395 ng/ml
Norfentanyl	4.132	175779	543.3	40.2	4737.4	702719	9.420 ng/ml
Norhydrocodone	3.135	40530	1027.0	40.5	369.5	59408	99.253 ng/ml
Noroxycodone	2.992	287283	6303.7	42.0	1555.8	105775	103.489 ng/ml
O-desmethyl-tramadol	3.430	2230859	177388.6	6.3	220.0	1014497	98.026 ng/ml
Oxazepam	5.768	78221	854.8	71.2	264.2	32568	105.484 ng/ml
Oxycodone	2.915	746231	4087.7	29.0	3962.4	331448	108.265 ng/ml
Oxymorphone	1.475	184523	5491.9	43.4	240598.7	65229	108.009 ng/ml
Phentermine	3.838	493612	924.9	4.7	243.3	509765	100.583 ng/ml
Promethazine	5.568	1267435	125544.8	31.8	1224.9	526222	97.592 ng/ml
Quetiapine	5.560	988672	32919.2	59.7	589811.7	149110	106.102 ng/ml
Sertraline	5.783	340640	67347.8	99.2	421070.6	152424	100.913 ng/ml
Temazepam	5.829	458866	16297.6	30.8	880.2	214175	98.543 ng/ml
Tramadol	4.293	2068318	193216.4	3.5	2692.0	1074417	103.478 ng/ml
Trazodone	5.153	1178360	494.5	77.9	46912.4	466131	98.105 ng/ml
Venlafaxine	5.093	1803854	1428.5	38.8	13060.9	913782	97.182 ng/ml
Zolpidem	4.919	2169207	298136.4	30.9	10815.9	1002740	102.885 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results**

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**Calibration Last Update**

7/17/2019 4:28:23 PM

**Instrument**

69679

**Data File**

cal 6.d

**Type**

Cal

**Sample**

cal 6

**Acq. Method**

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**Operator**

Anne Nord

**Sample Position**

P2-F5

**Comment**

**Injection Volume**

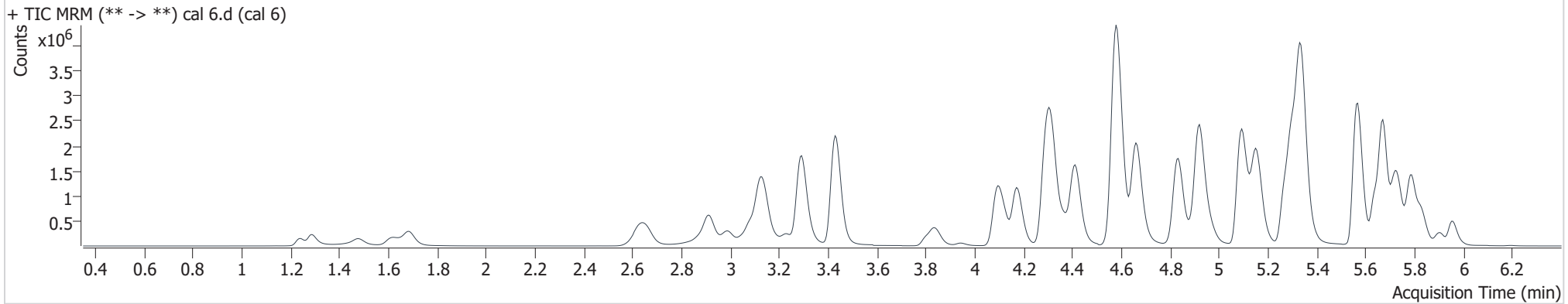
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**Acq. Date-Time**

7/16/2019 1:24:08 PM

**Sample Info.**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.199	55731	1577.6	74.1	675.3	67754	25.031 ng/ml
7-aminoclonazepam	4.318	537648	29503.3	81.6	13191.1	97783	247.854 ng/ml
a-hydroxyalprazolam	5.709	53992	1148.2	58.9	2536.6	12785	244.902 ng/ml
alpha-PVP	4.412	2734170	18241.4	52.4	3953.3	485312	245.376 ng/ml
Alprazolam	5.787	898895	2490.9	110.9	1584.8	119132	249.079 ng/ml
Amphetamine	3.132	2991130	1594.5	52.4	16450.6	242369	210.828 ng/ml
Benzoyllecgonine	3.941	78559	92742.3	7.6	60.1	11725	245.739 ng/ml
Buprenorphine	5.734	23179	1148.9	16.9	679.4	42631	24.288 ng/ml
Bupropion	4.835	3170149	4566.9	59.7	3637.5	459874	251.549 ng/ml
Carisoprodol	5.738	734354	20281.0	57.8	9466.6	142416	250.412 ng/ml
Citalopram	5.272	1841596	107258.9	46.2	445273.9	326473	252.532 ng/ml
Clonazepam	5.633	264815	28629.7	33.1	479.0	20236	243.470 ng/ml
Cocaine	4.312	2089896	1035737.9	43.6	46358.0	773614	249.137 ng/ml
Codeine	2.663	264860	19703.7	104.6	3745.1	52674	243.782 ng/ml
Cyclobenzaprine	5.640	1746517	201014.7	10.2	3807.9	268039	244.628 ng/ml
Dextromethorphan	5.311	1161524	137984.8	76.8	409880.6	229841	247.701 ng/ml
Dextrorphan	4.172	901208	298685.7	216.3	309155.1	432074	247.108 ng/ml
Diazepam	5.957	594255	28854.7	85.5	10006.3	121623	257.239 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.627	749738	733.3	65.1	44901.4	198241	237.303 ng/ml
Diphenhydramine	5.337	6083055	561625.6	33.3	67796.3	1157472	245.310 ng/ml
Doxylamine	4.579	6977745	15912.3	96.6	8446.9	1194157	252.688 ng/ml
EDDP	5.305	1102159	22273.2	237.7	62662.9	499703	251.883 ng/ml
Fentanyl	5.132	237300	125462.8	76.2	135668.8	455448	24.886 ng/ml
Fluoxetine	5.721	2028694	13226.9	8.6	12638.3	290145	252.620 ng/ml
Hydrocodone	3.084	881908	1081.7	39.4	862.8	215379	270.366 ng/ml
Hydromorphone	1.688	592406	378722.9	76.2	3683.3	88116	244.406 ng/ml
Ketamine	4.097	2076969	463790.6	37.3	18264.4	414624	251.603 ng/ml
Lamotrigine	4.345	193393	891.2	86.6	10385.9	229841	254.750 ng/ml
Lorazepam	5.761	88589	1235.3	56.3	376.6	119132	186.829 ng/ml
Meprobamate	4.968	513049	54927.0	29.7	259.3	103153	241.973 ng/ml
Methadone	5.669	3518507	108776.4	46.4	246731.6	686933	246.814 ng/ml
Methamphetamine	3.294	3083546	6235.1	39.5	12566.6	551305	251.491 ng/ml
Metoprolol	4.374	494679	778211.5	96.7	19125.6	1157472	251.683 ng/ml
Mirtazapine	4.660	4006864	1056652.2	46.3	354482.5	686933	253.105 ng/ml
Mitragynine	5.260	506750	618248.4	38.6	263.0	686933	253.735 ng/ml
Morphine	1.242	151293	1089282.2	23.4	127757.9	8612	251.095 ng/ml
Norbuprenorphine	5.045	7769	12139.4	100.1	2811.2	13342	26.307 ng/ml
Nordiazepam	5.907	362644	348586.1	61.5	13590.3	48495	249.602 ng/ml
Norfentanyl	4.132	415648	1812.5	40.1	7341.7	625993	24.868 ng/ml
Norhydrocodone	3.135	102032	1063.9	41.3	126.8	55437	263.993 ng/ml
Noroxycodone	2.992	627565	834.1	41.5	572.4	95825	250.473 ng/ml
O-desmethyl-tramadol	3.430	5275025	492214.0	6.3	30839.7	948594	247.096 ng/ml
Oxazepam	5.768	108870	397.4	72.8	1012.6	18652	257.518 ng/ml
Oxycodone	2.910	1708027	1904.5	29.3	3947.0	324044	255.490 ng/ml
Oxymorphone	1.475	424457	2043916.0	44.7	1450.0	62930	259.213 ng/ml
Phentermine	3.838	1005989	4833.7	4.5	821.1	481463	218.032 ng/ml
Promethazine	5.568	3030216	193306.2	31.6	265997.1	503125	243.089 ng/ml
Quetiapine	5.560	2222637	3340631.6	58.3	854635.6	145657	245.078 ng/ml
Sertraline	5.788	699889	34001.2	101.2	466720.4	126839	249.120 ng/ml
Temazepam	5.829	936779	10736.7	30.5	1977.3	171830	250.458 ng/ml
Tramadol	4.293	4607096	2688.2	3.5	8732.3	976729	254.875 ng/ml
Trazodone	5.153	2851064	2056.2	78.2	240.1	421358	261.892 ng/ml
Venlafaxine	5.094	4251479	449669.5	38.8	42367.6	858149	242.780 ng/ml
Zolpidem	4.919	5184998	1097.5	30.0	112951.1	971655	254.321 ng/ml

# AM #28 Multi-Drug Quant. Results

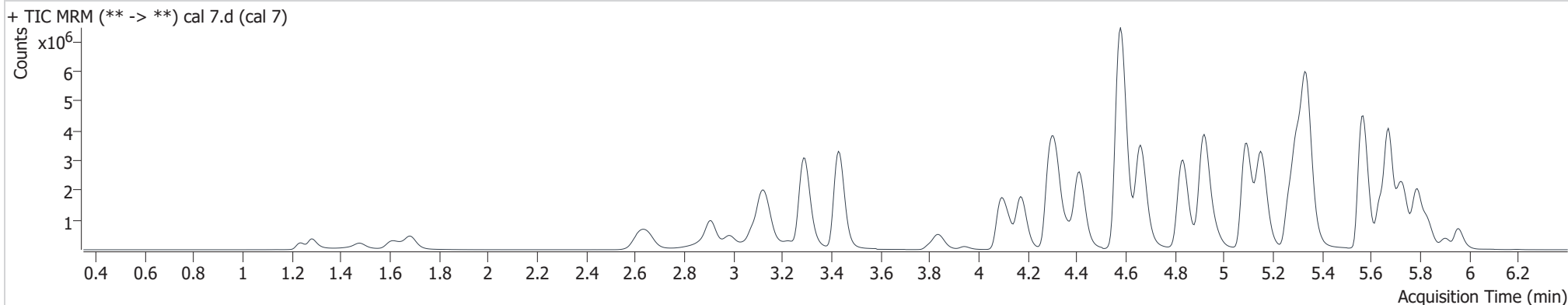
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Calibration Last Update

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7/17/2019 4:28:23 PM

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Type Cal  
Acq. Method mdq p1 cda 121818.m  
Sample Position P2-G5  
Injection Volume 2  
Acq. Date-Time 7/16/2019 1:34:57 PM  
Sample Info.

Data File cal 7.d  
Sample cal 7  
Operator Anne Nord  
Comment

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	99666	4753.7	74.8	239349.8	58873	51.485 ng/ml
7-aminoclonazepam	4.323	608461	6052.0	84.3	19524.3	58545	469.135 ng/ml
a-hydroxyalprazolam	5.714	84565	1325.5	57.9	979.5	10107	485.849 ng/ml
alpha-PVP	4.412	4834839	306676.0	51.9	4037.3	424865	495.311 ng/ml
Alprazolam	5.787	1372229	5061.3	110.0	2807.2	90660	499.722 ng/ml
Amphetamine	3.129	4552632	25822.2	52.1	3018.3	218784	356.430 ng/ml
Benzoylcegonine	3.941	153009	228627.3	7.8	918.2	11050	508.098 ng/ml
Buprenorphine	5.734	38194	2194.6	15.8	352.9	34203	49.956 ng/ml
Bupropion	4.835	5864201	411888.9	59.2	73200.9	435125	491.951 ng/ml
Carisoprodol	5.744	1023475	15227.6	58.5	4024.1	98147	506.133 ng/ml
Citalopram	5.272	2914358	3795.9	46.1	1054264.4	259215	503.571 ng/ml
Clonazepam	5.633	340554	35379.8	33.5	85234.4	14640	433.599 ng/ml
Cocaine	4.312	3297173	8292.5	43.4	10974.1	610983	497.697 ng/ml
Codeine	2.658	419874	874.3	105.4	32131.8	43210	471.799 ng/ml
Cyclobenzaprine	5.640	3041437	21681.2	10.1	6627.1	230378	495.409 ng/ml
Dextromethorphan	5.311	1774260	160359.5	75.8	109628.8	173509	501.206 ng/ml
Dextrorphan	4.171	1538688	128595.0	215.2	336407.1	368110	495.146 ng/ml
Diazepam	5.957	918717	9635.2	86.5	14395.0	97163	498.599 ng/ml

cal 7

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	1270056	76734.8	64.7	4469.9	182938	436.320 ng/ml
Diphenhydramine	5.342	9869647	416763.2	33.0	78958.4	921217	499.214 ng/ml
Doxylamine	4.582	12349357	347261.2	97.2	305704.5	1070571	498.938 ng/ml
EDDP	5.300	2045197	2273.8	238.1	4961.8	453697	514.412 ng/ml
Fentanyl	5.132	430311	4035.5	76.4	324282.6	401232	51.219 ng/ml
Fluoxetine	5.721	3478071	9080.2	8.6	93078.3	254600	493.410 ng/ml
Hydrocodone	3.084	1492551	5359.7	39.3	1240.2	196974	502.821 ng/ml
Hydromorphone	1.683	988513	6912.1	73.2	309497.6	72848	493.041 ng/ml
Ketamine	4.097	3497470	2923094.8	37.7	29988.2	365312	481.318 ng/ml
Lamotrigine	4.345	271189	4858.7	85.6	5286.5	173509	473.548 ng/ml
Lorazepam	5.761	119740	1464.1	56.7	776.1	90660	332.494 ng/ml
Meprobamate	4.968	799423	241547.8	29.2	18331.5	75834	512.820 ng/ml
Methadone	5.669	6382338	80929.3	44.7	214332.5	620934	494.824 ng/ml
Methamphetamine	3.292	5599272	1416.5	38.8	651.6	553615	456.727 ng/ml
Metoprolol	4.374	712003	386003.4	96.7	14564.7	921217	455.321 ng/ml
Mirtazapine	4.660	7118461	244431.3	45.9	234629.1	620934	497.136 ng/ml
Mitragynine	5.260	884611	1213104.3	38.8	434049.3	620934	490.688 ng/ml
Morphine	1.237	247666	1695837.3	23.6	291775.6	7027	504.472 ng/ml
Norbuprenorphine	5.039	14493	34707.9	100.7	1489.0	12957	50.777 ng/ml
Nordiazepam	5.907	533994	260846.1	61.4	228273.6	37319	477.913 ng/ml
Norfentanyl	4.132	725226	3672.8	40.7	3790.9	508417	53.328 ng/ml
Norhydrocodone	3.135	176027	384.6	41.2	18.8	45918	547.457 ng/ml
Noroxycodone	2.987	1052718	1885.5	41.8	366.0	79784	505.303 ng/ml
O-desmethyl-tramadol	3.430	8898040	221147.7	6.2	65756.6	788012	501.209 ng/ml
Oxazepam	5.763	131369	2633.2	73.8	649.0	11470	506.072 ng/ml
Oxycodone	2.905	2947155	2488.4	29.2	4884.2	286401	500.219 ng/ml
Oxymorphone	1.475	693009	2032495.4	44.1	1615198.6	53663	497.415 ng/ml
Phentermine	3.838	1586333	4357.7	4.5	3032.1	439393	377.354 ng/ml
Promethazine	5.568	5669314	2356565.2	30.5	61932.1	454377	502.919 ng/ml
Quetiapine	5.560	3411839	2891.9	58.5	1410255.4	130169	421.464 ng/ml
Sertraline	5.788	1134299	948202.1	101.3	31677.7	102319	500.467 ng/ml
Temazepam	5.829	1416870	47767.7	30.8	8621.0	130374	499.082 ng/ml
Tramadol	4.288	7469605	538299.9	3.4	13037.9	836143	483.536 ng/ml
Trazodone	5.153	5001785	388401.8	79.4	2665.1	351435	550.407 ng/ml
Venlafaxine	5.088	7441834	359105.0	37.8	4765.2	732527	497.066 ng/ml
Zolpidem	4.921	9021573	751460.9	29.2	251259.5	871348	493.783 ng/ml

# AM #28 Multi-Drug Quant. Results

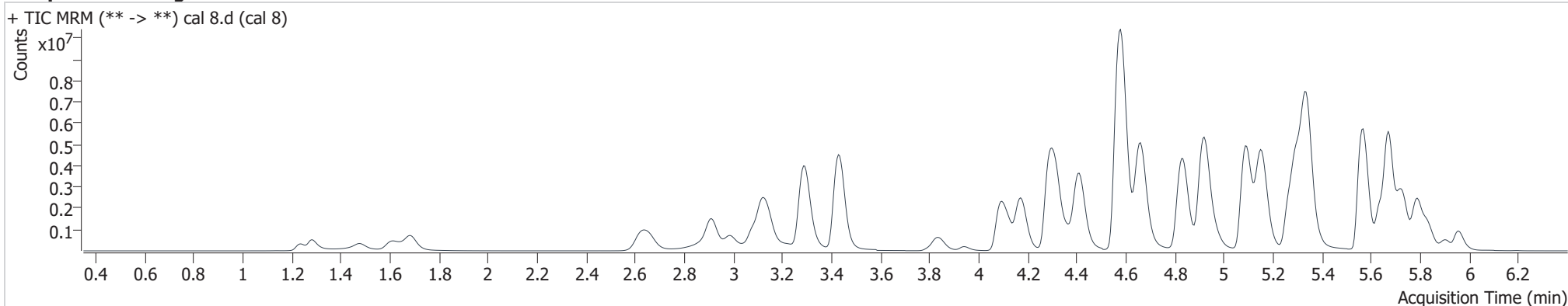
Batch results  
Calibration Last Update

D:\MassHunter\Data\2019\am28-27 0716019\QuantResults\mdq.batch.bin  
7/17/2019 4:28:23 PM

Instrument 69679  
Type Cal  
Acq. Method mdq p1 cda 121818.m  
Sample Position P2-H5  
Injection Volume 2  
Acq. Date-Time 7/16/2019 1:56:29 PM  
Sample Info.

Data File cal 8.d  
Sample cal 8  
Operator Anne Nord  
Comment

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.199	159586	4221.9	74.6	681.3	45669	106.240 ng/ml
7-aminoclonazepam	4.318	548065	45159.6	89.5	56145.3	29764	831.738 ng/ml
a-hydroxyalprazolam	5.714	122098	510.5	59.3	708.1	7291	973.163 ng/ml
alpha-PVP	4.412	7302697	729576.9	51.2	28356.2	314237	1011.191 ng/ml
Alprazolam	5.787	1862073	2613.7	109.9	15141.0	61366	1001.886 ng/ml
Amphetamine	3.131	5715461	17132.0	52.1	6046.4	154402	635.131 ng/ml
Benzoyllecgonine	3.941	294050	489747.5	7.8	33897.3	10130	1065.371 ng/ml
Buprenorphine	5.734	47371	3460.7	16.7	652.6	23032	92.068 ng/ml
Bupropion	4.834	8926217	1004114.5	58.9	4795.2	344019	947.295 ng/ml
Carisoprodol	5.744	1286361	97047.0	58.2	6112.0	61120	1021.222 ng/ml
Citalopram	5.272	3974964	367010.2	46.5	123068.8	179476	992.219 ng/ml
Clonazepam	5.628	401078	5446.5	33.3	4454.2	9911	755.055 ng/ml
Cocaine	4.312	4554985	306854.4	43.1	117456.1	418866	1002.932 ng/ml
Codeine	2.663	603517	917.2	103.3	148787.7	31470	931.884 ng/ml
Cyclobenzaprine	5.640	3984858	230105.9	10.2	19663.6	147785	1011.595 ng/ml
Dextromethorphan	5.311	2368371	3016.9	75.7	8776.3	115879	1001.760 ng/ml
Dextrorphan	4.172	2290089	179561.7	219.4	226608.0	269081	1008.092 ng/ml
Diazepam	5.957	1292444	13500.1	86.4	25961.7	68945	989.351 ng/ml

cal 8

Generated at 4:29 PM on 7/17/2019



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.627	1814563	2522.3	65.0	1450.6	151232	754.683 ng/ml
Diphenhydramine	5.342	13520142	4710.8	33.1	22498.2	621372	1012.994 ng/ml
Doxylamine	4.579	18403577	937235.0	97.1	4360.4	857453	928.435 ng/ml
EDDP	5.300	2575323	247211.4	242.9	422607.1	300175	978.703 ng/ml
Fentanyl	5.127	634293	975.2	79.6	1333198.5	289525	104.621 ng/ml
Fluoxetine	5.721	4353518	608845.4	8.4	267282.8	156369	1005.418 ng/ml
Hydrocodone	3.084	2333735	754.4	39.9	1072.9	161209	963.299 ng/ml
Hydromorphone	1.683	1684097	2267.6	73.6	3535.8	60389	1012.997 ng/ml
Ketamine	4.092	5155176	6178.7	37.2	43318.8	281795	920.158 ng/ml
Lamotrigine	4.345	322487	2099.0	87.2	6146.4	115879	843.495 ng/ml
Lorazepam	5.761	153650	11212.1	57.0	883.2	61366	631.088 ng/ml
Meprobamate	4.968	1128084	158911.9	29.4	31054.1	50723	1081.856 ng/ml
Methadone	5.669	9527931	334960.9	45.3	408646.1	452309	1013.615 ng/ml
Methamphetamine	3.289	7486594	12978.9	38.3	15597.8	422115	802.744 ng/ml
Metoprolol	4.369	930371	555684.1	96.1	77368.3	621372	882.261 ng/ml
Mirtazapine	4.660	10716965	884168.0	45.7	1901951.7	452309	1027.127 ng/ml
Mitragynine	5.260	1160541	776184.5	39.9	479990.4	452309	884.322 ng/ml
Morphine	1.237	374056	1308431.6	23.5	559834.3	5407	990.859 ng/ml
Norbuprenorphine	5.039	23920	24305.1	96.7	40394.7	11102	98.053 ng/ml
Nordiazepam	5.907	725301	49187.0	61.3	14803.5	25423	953.187 ng/ml
Norfentanyl	4.132	1118466	144896.9	40.0	2250.8	360810	115.792 ng/ml
Norhydrocodone	3.135	270442	6982.4	41.5	4779.4	33986	1134.000 ng/ml
Noroxycodone	2.987	1587106	3759.8	41.9	524.6	61491	989.067 ng/ml
O-desmethyl-tramadol	3.433	13300343	209908.1	6.1	158473.2	586576	1005.934 ng/ml
Oxazepam	5.763	160833	3880.2	74.6	2596.7	7261	979.472 ng/ml
Oxycodone	2.910	4813490	∞	29.0	∞	238419	982.859 ng/ml
Oxymorphone	1.475	1139814	3254.7	43.6	1803.2	44724	982.828 ng/ml
Phentermine	3.838	2119957	2015.3	4.5	3817.3	340787	650.828 ng/ml
Promethazine	5.568	7641047	664631.9	30.7	90431.7	305104	1008.822 ng/ml
Quetiapine	5.555	4645927	5484010.6	58.1	5088.9	100987	740.268 ng/ml
Sertraline	5.788	1285004	39093.2	101.3	19196.5	57687	1005.583 ng/ml
Temazepam	5.829	1992016	2220311.5	30.4	24701.0	87736	1042.462 ng/ml
Tramadol	4.288	10443460	264161.0	3.4	17270.2	629097	899.329 ng/ml
Trazodone	5.153	7600590	2472.3	78.6	3398825.1	241133	1218.470 ng/ml
Venlafaxine	5.088	11229509	2317956.8	37.4	94379.4	540654	1015.475 ng/ml
Zolpidem	4.919	13169239	2343725.7	29.8	5262.9	685066	917.108 ng/ml