Supplemental Data 4
Success rate under increasing %RSD

Table 1: Success rate of the different tests in the process of calibration model selection and validation under increasing %RSD

%RSD (LLOQ)	Quadratic, $1/x^2$, $n = 7$							
	2.5%	**5.0%**	**7.5%**	**10.0%**	**12.5%**	**15.0%**	**17.5%**	**20.0%**
F-test	100%	100%	100%	100%	100%	100%	98%	100%
Variance test	100%	100%	100%	100%	100%	100%	100%	100%
Partial F-test	78%	68%	58%	54%	42%	34%	28%	26%
Validation	100%	100%	100%	0%	100%	100%	100%	100%
Final model	78%	68%	58%	54%	42%	34%	28%	26%