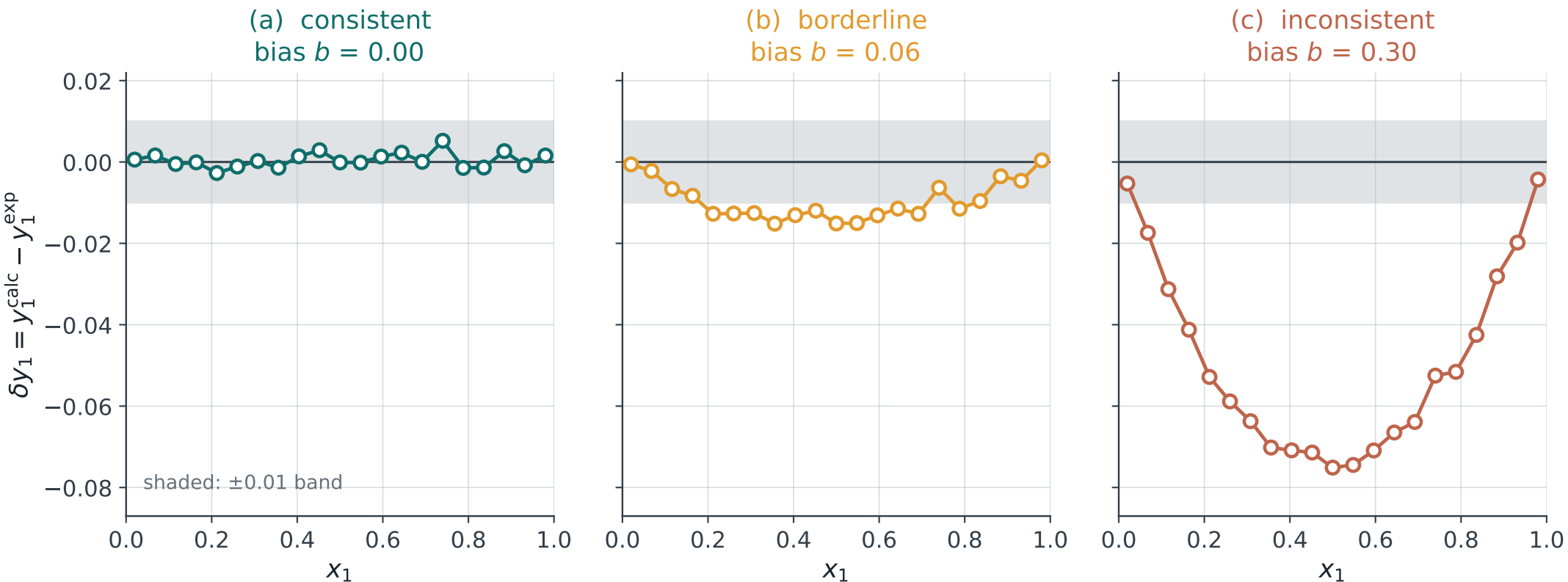


2-propanol (1) / 2-butanone (2), isobaric at 101.325 kPa — the same experiment at three bias levels $\delta y_1 = b x_1 x_2$



consistency test	threshold	consistent	borderline	inconsistent	
area (Redlich-Kister), D	10	0.86	9.66	47.22	
Herington, $ D - J $	10	2.05	6.75	44.31	
point (VNBG), mean $ \delta y_1 $	0.01	0.0014 (index 1)	0.0095 (index 4)	0.0492	(index 10)
direct (Van Ness), rms δ	0.05	0.0117 (index 1)	0.0471 (index 2)	0.2398	(index 10)
infinite dilution (Kojima)	30	24.0	16.1	56.0	

Green = pass, red = fail. Every value is what `vlekit.consistency.run_all` returned for the set plotted above it.

At $b = 0.06$ every test passes — the area test by 0.3 of its threshold, the point test by 0.0005 — yet the point index is already 4, which is marginal.

Between $b = 0.06$ and $b = 0.08$ four of the five verdicts flip together: these are not independent detectors, but one residual read at different thresholds.

Report a dataset with all five, never with the one that happens to pass.