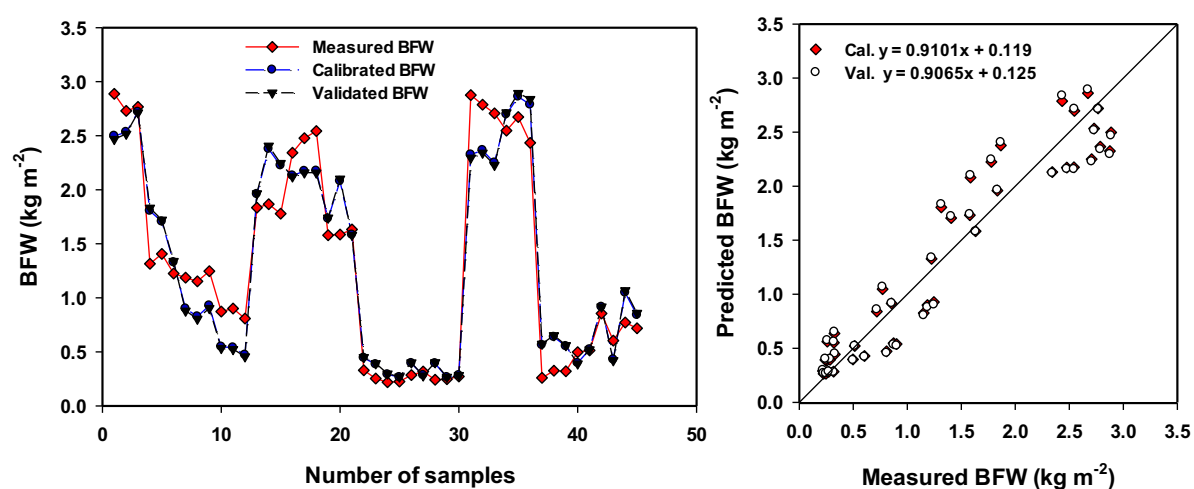
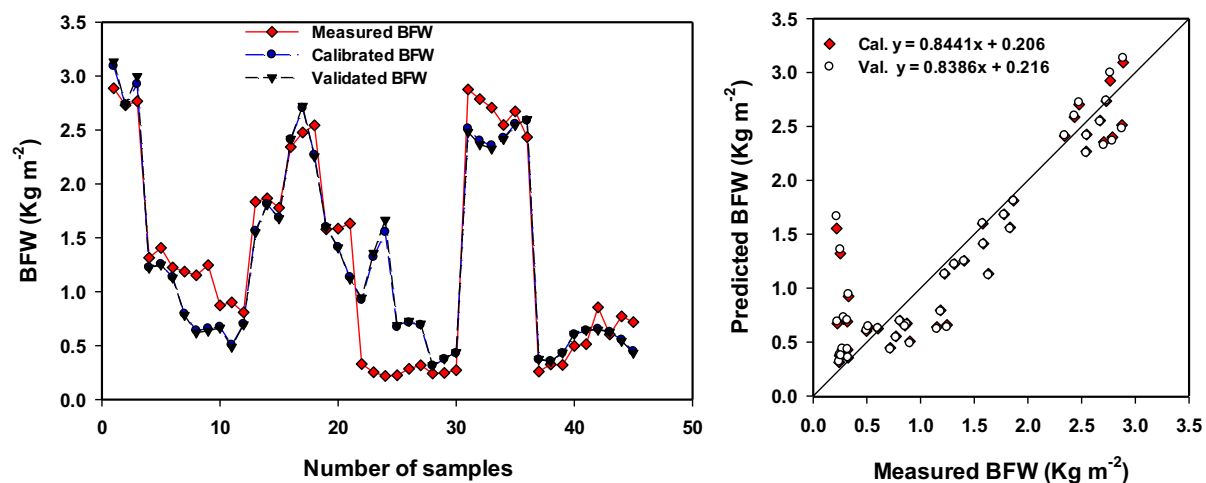


**Figure S1.** Comparison between measuring series, calibrating series and validating series for leaf area index (LAI) of maize using the MLR models based on selected vegetation-SRIs extracted from (a) radiometric ground-based data, (b) extracted from QuickBird satellite imagery and (c) extracted from both methods.

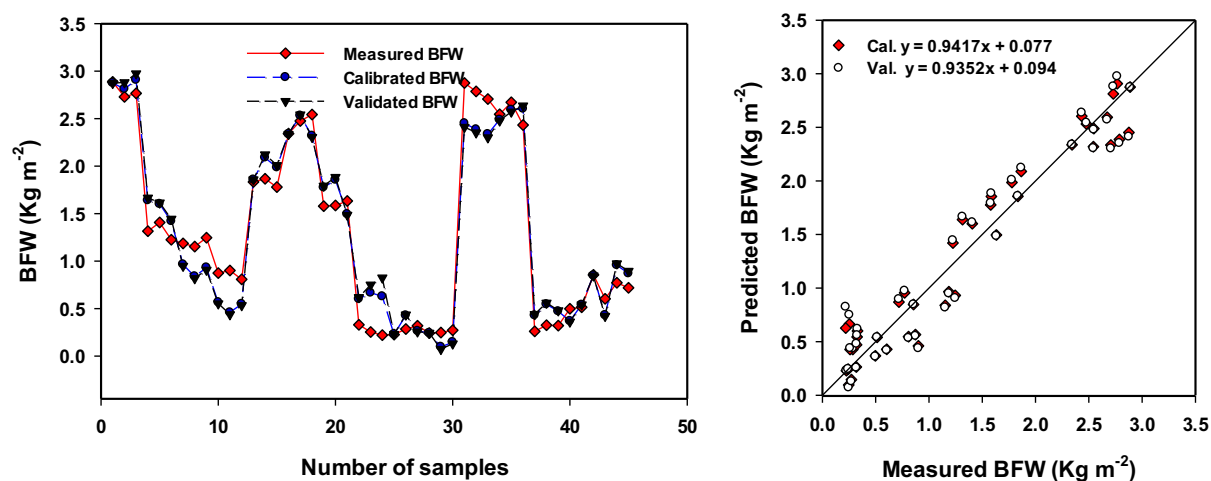
(a) Radiometric ground-based data



(b) QuickBird satellite imagery

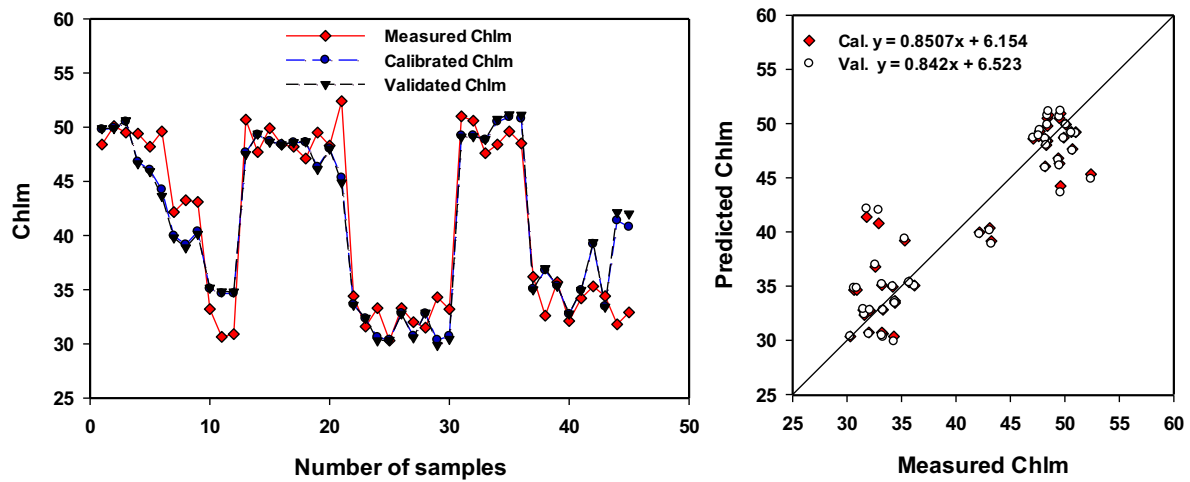


(c) Both methods

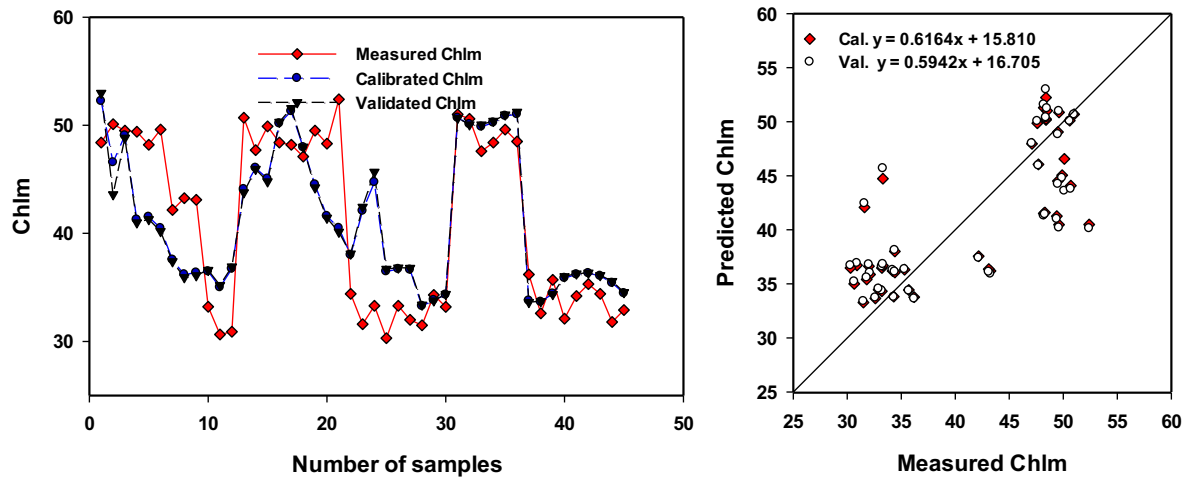


**Figure S2.** Comparison between measuring series, calibrating series and validating series for biomass fresh weight (BFW) of maize using the MLR models based on selected vegetation-SRIs extracted from (a) radiometric ground-based data, (b) extracted from QuickBird satellite imagery and (c) extracted from both methods.

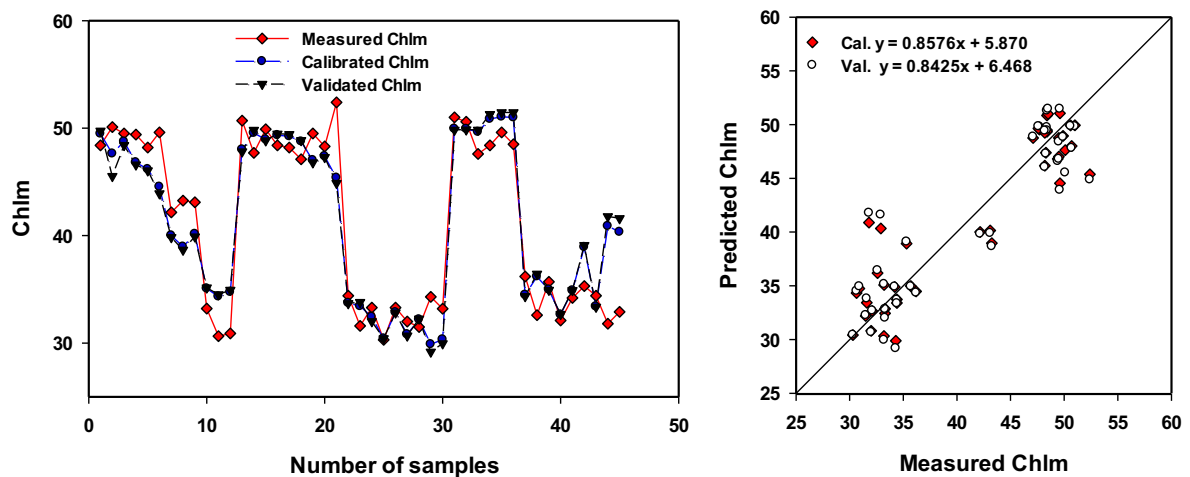
(a) Radiometric ground-based data



(b) QuickBird satellite imagery



(c) Both Methods



**Figure S3.** Comparison between measuring series, calibrating series and validating series for Chlorophyll meter (Chlm) of maize using the MLR models based on selected vegetation-SRIs extracted from (a) radiometric ground-based data, (b) extract from QuickBird satellite imagery and (c) extracted from both methods.