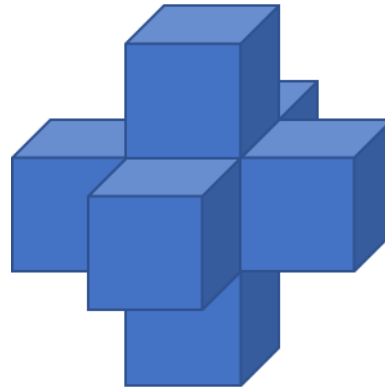
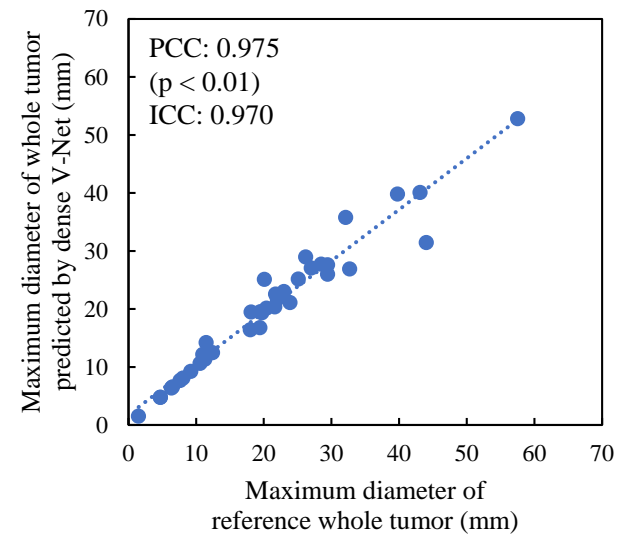


**Figure S1.** Architectures of a deep learning segmentation (DLS) model (dense V-Net).

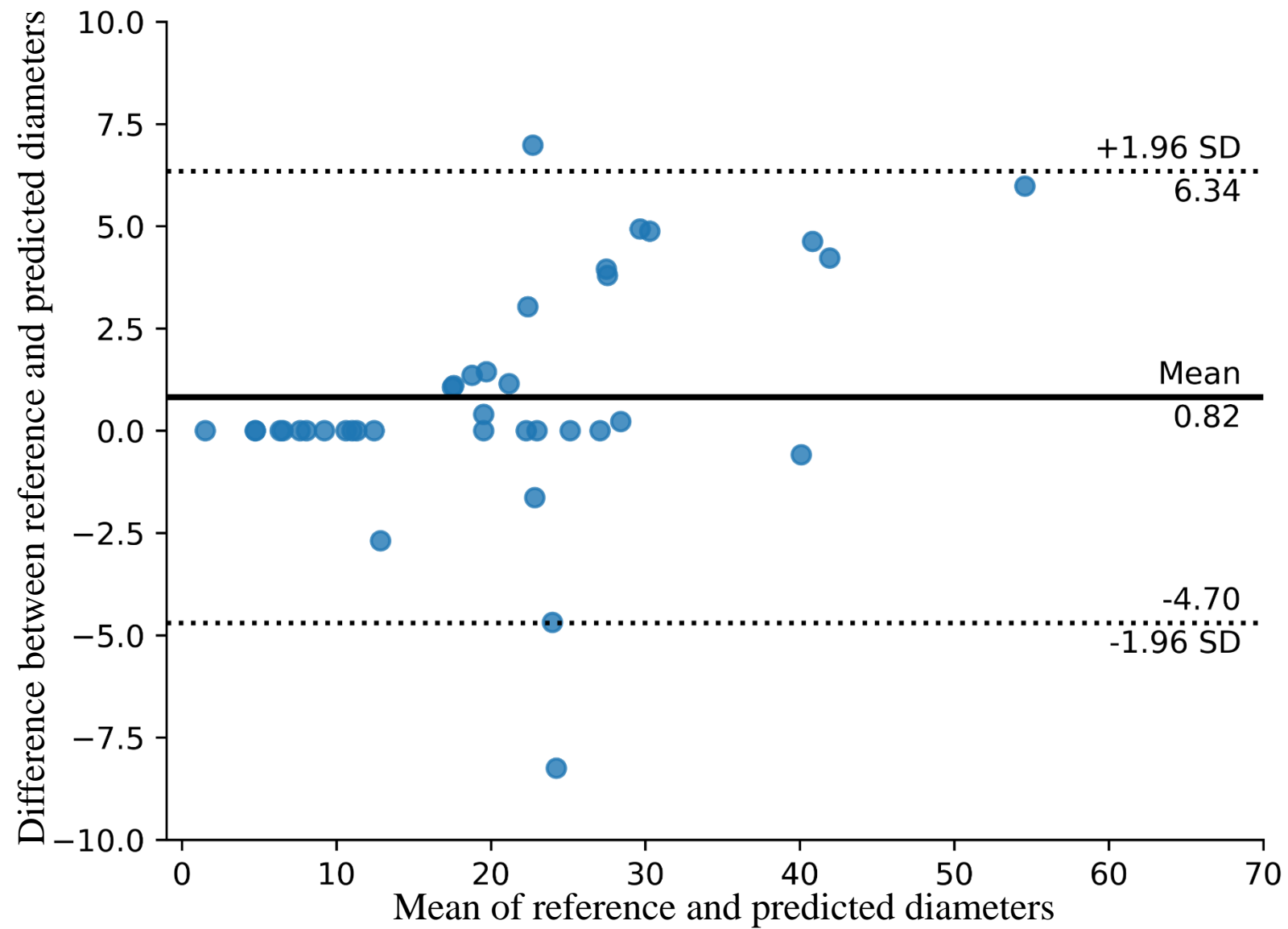


6-connectivity

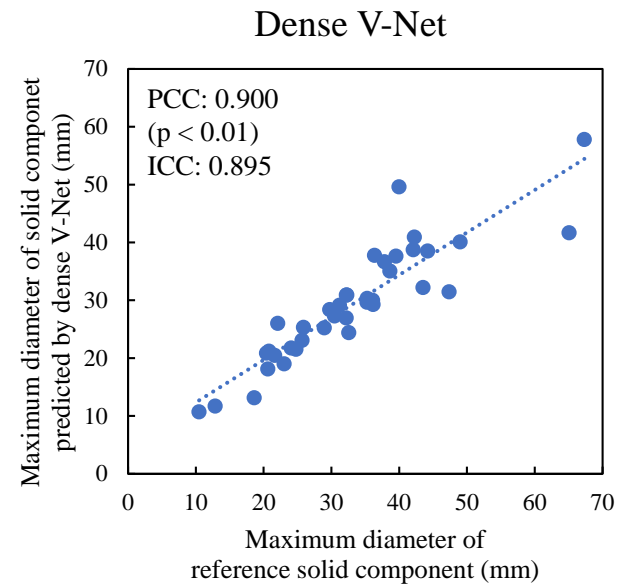
**Figure S2.** Visualization of 6-connectivity.



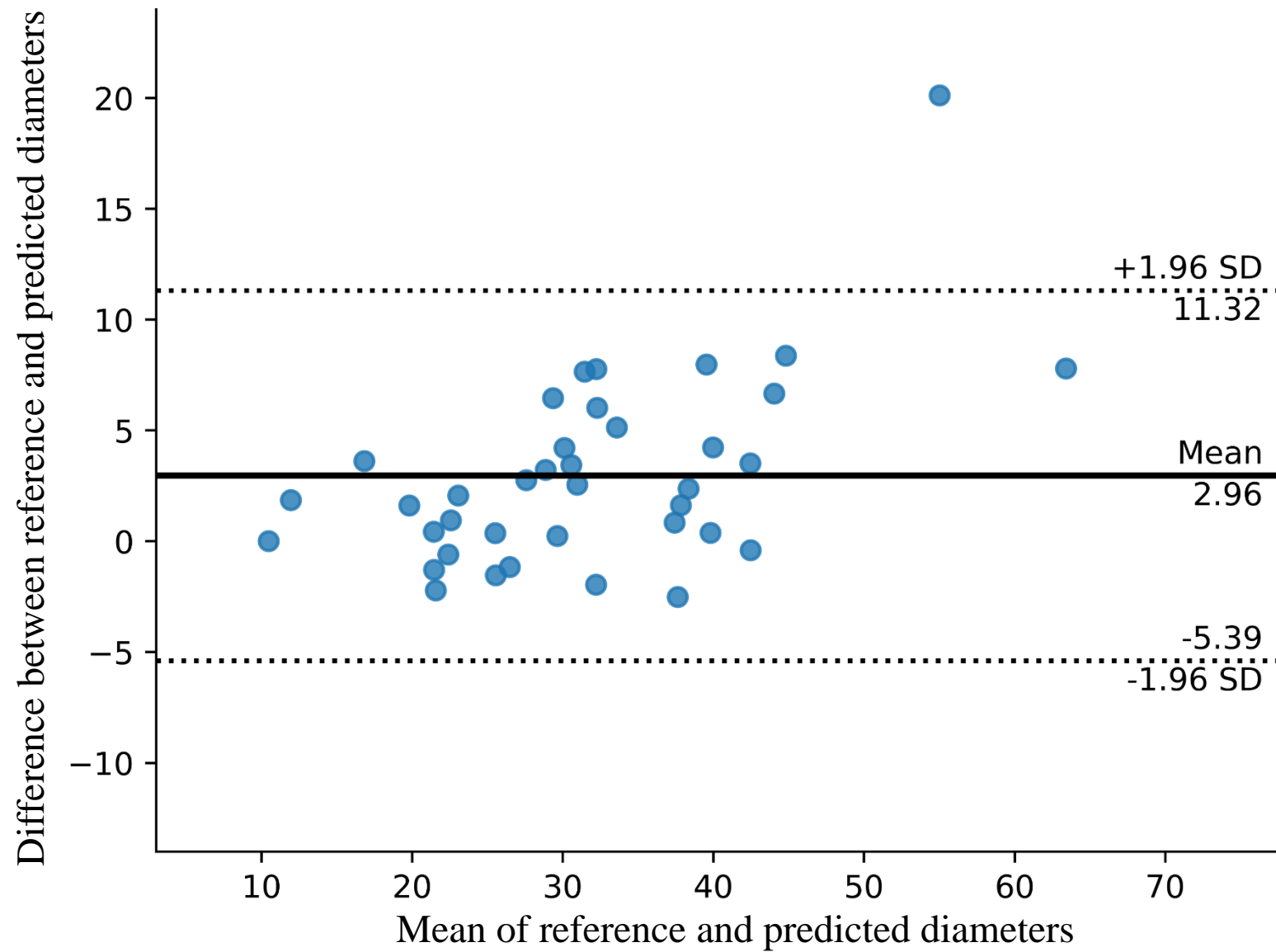
**Figure S3.** Correlation between reference and predicted maximum diameters of whole tumor regions with the proposed model for an internal test dataset B. PCC: Pearson correlation coefficient, ICC: Intraclass correlation coefficient.



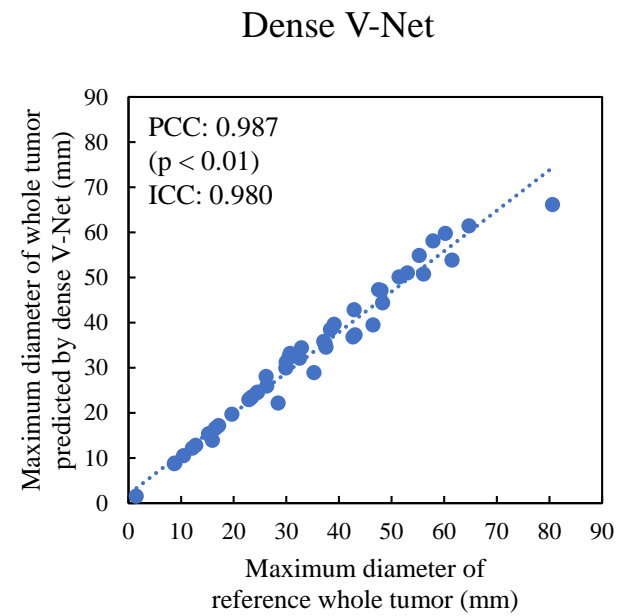
**Figure S4.** Bland-Altman plot of reference and predicted maximum diameters of whole tumor regions with the proposed model for an internal test dataset B.



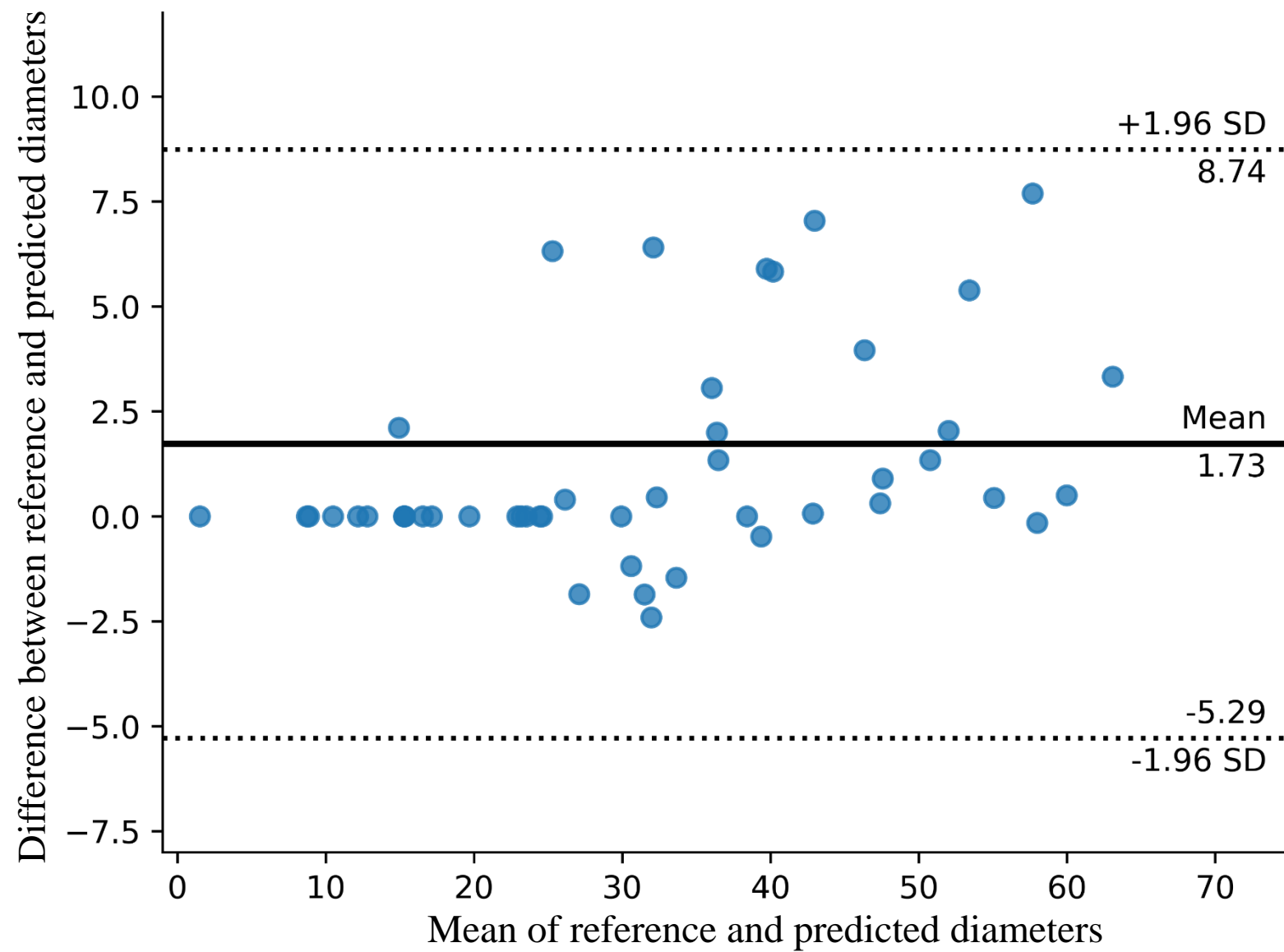
**Figure S5.** Correlation between reference and predicted maximum diameters of solid components with the proposed model for an internal test dataset B. PCC: Pearson correlation coefficient, ICC: Intraclass correlation coefficient.



**Figure S6.** Bland-Altman plot of reference and predicted maximum diameters of solid components with the proposed model for an internal test dataset B.

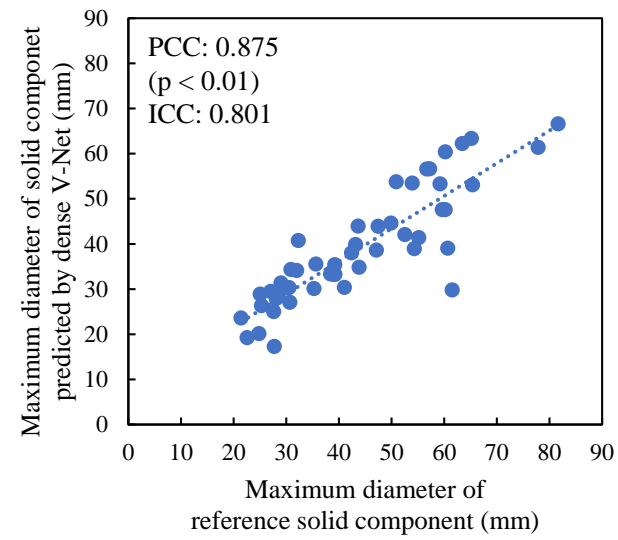


**Figure S7.** Correlation between reference and predicted maximum diameters of whole tumor regions with the proposed model for an external test dataset. PCC: Pearson correlation coefficient, ICC: Intraclass correlation coefficient.

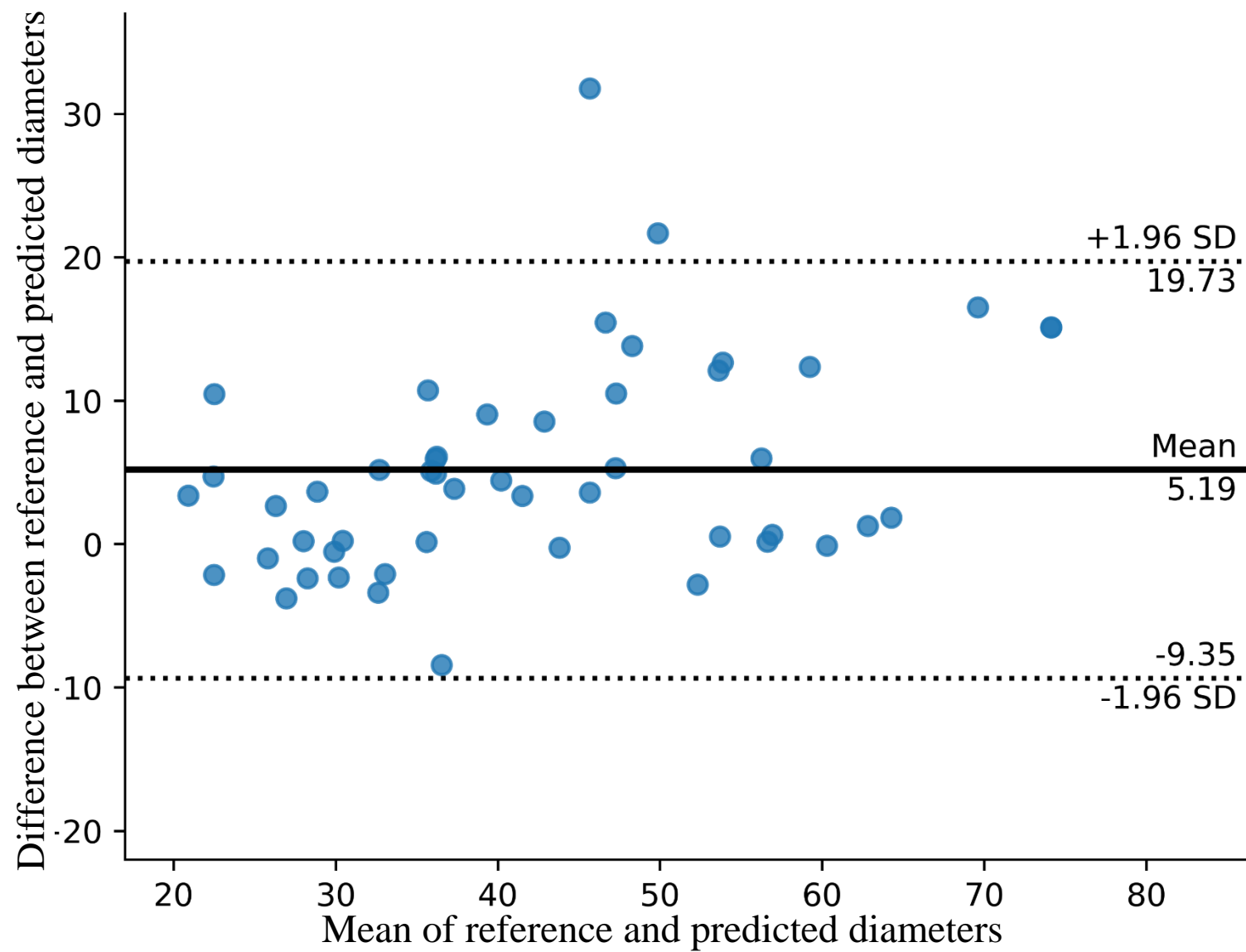


**Figure S8.** Bland-Altman plot of reference and predicted maximum diameters of whole tumor regions with the proposed model for an external test dataset.





**Figure S9.** Correlation between reference and predicted maximum diameters of solid components with the proposed model for an external test dataset. PCC: Pearson correlation coefficient, ICC: Intraclass correlation coefficient.



**Figure S10.** Bland-Altman plot of reference and predicted maximum diameters of solid components with the proposed model for an external test dataset.