



\*  $p \leq 0.05$  \*\*  $p \leq 0.01$  \*\*\*  $p \leq 0.001$

Figure 4 Correlation of root characteristics with fruit yield and water use efficiency (Adopted from Feng et al., 2024)

Image caption: RL1: root length belong to the 0-10 cm soil layer, RS1: root surface area belong to the 0-10 cm soil layer, RV1: root volume belong to the 0-10 cm soil layer, RL2: root length belong to the 10-20 cm soil layer, RS2: root surface area belong to the 10-20 cm soil layer, RV2: root volume belong to the 10-20 cm soil layer, RL3: root length belong to the 20-30 cm soil layer, RS3: root surface area belong to the 20-30 cm soil layer, RV3: root volume belong to the 20-30 cm soil layer, PRL1: Radio of root length belong to the 0-10 cm soil layer to total root length, PRS1: Radio of root surface area belong to the 0-10 cm soil layer to total root surface, PRV1: Radio of root volume belong to the 0-10 cm soil layer to total root volume, PRL2: Radio of root length belong to the 10-20 cm soil layer to total root length, PRS2: Radio of root surface area belong to the 10-20 cm soil layer to total root surface, PRV2: Radio of root volume belong to the 10-20 cm soil layer to total root volume, PRL3: Radio of root length belong to the 20-30 cm soil layer to total root length, PRS3: Radio of root surface area belong to the 20-30 cm soil layer to total root surface, PRV3: Radio of root volume belong to the 20-30 cm soil layer to total root volume, GY: fruit yield, WUE: water use efficiency. (A) 2023 Summer (B) 2023 Autumn (Adopted from Feng et al., 2024)