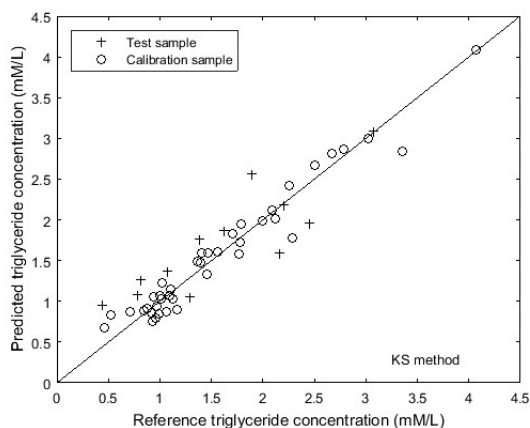
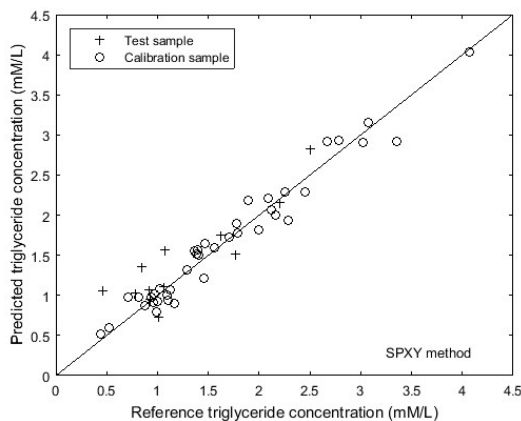


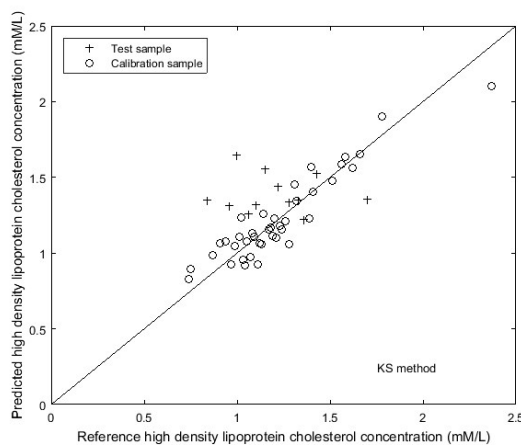
## Supplementary



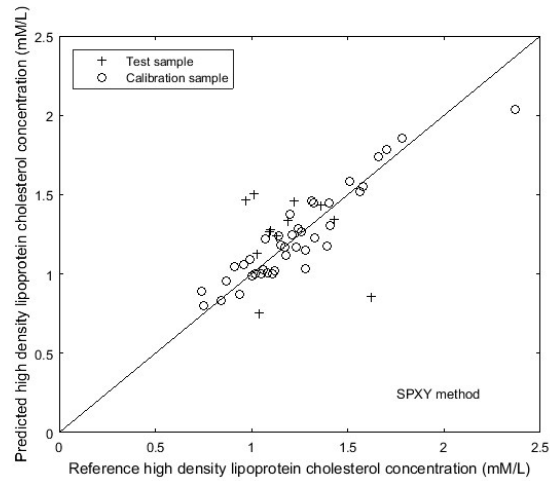
**Fig. 1** Predicted TG concentration of PLS-KS model based on FTIR-ATR spectra versus the reference TG concentration



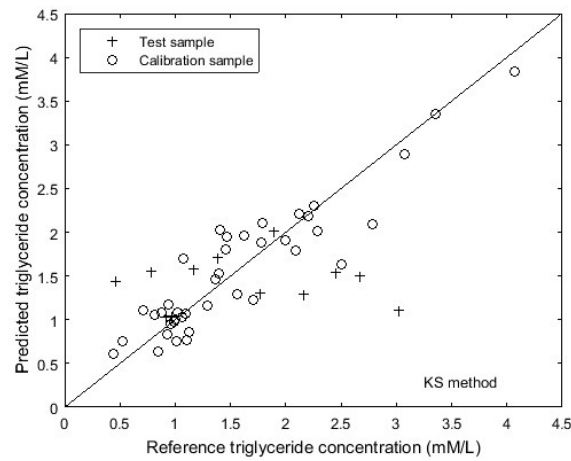
**Fig. 2** Predicted TG concentration of PLS-SPXY model based on FTIR-ATR spectra versus the reference TG concentration



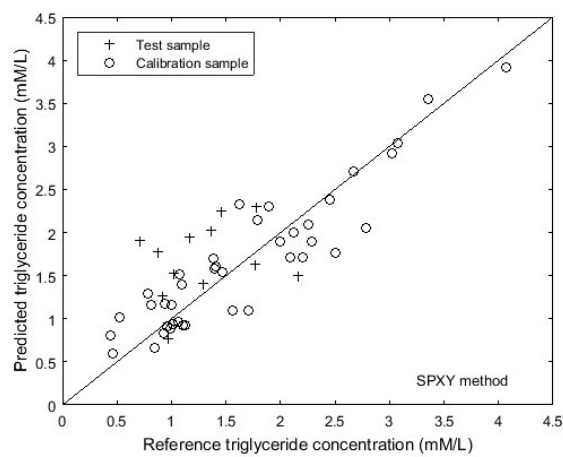
**Fig.3** Predicted HDL-C concentration of PLS-KS model based on FTIR-ATR spectra versus the reference HDL-C concentration



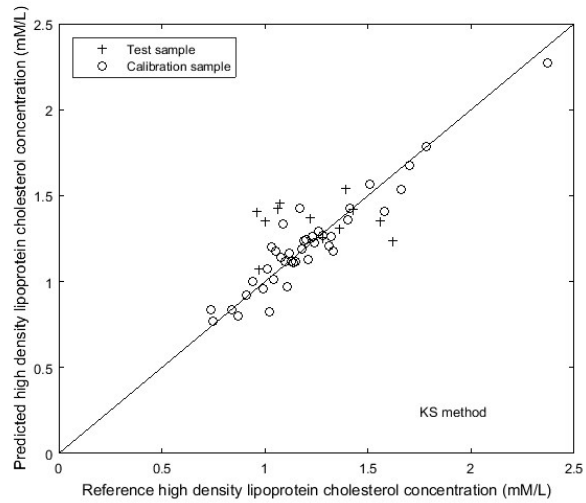
**Fig. 4 Predicted HDL-C concentration of PLS-SPXY model based on FTIR-ATR spectra versus the reference HDL-C concentration**



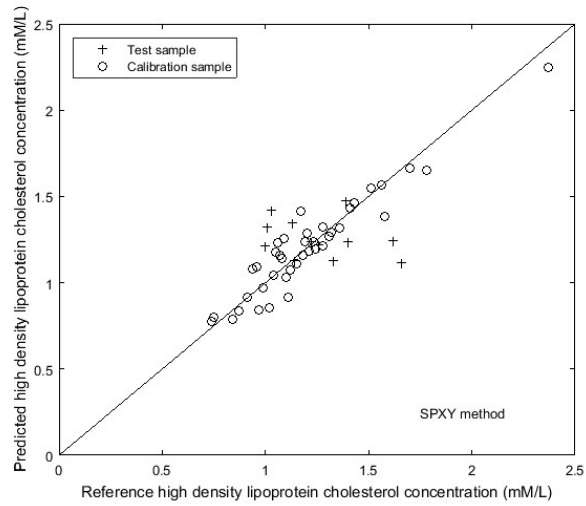
**Fig. 5 Predicted TG concentration of PLS-KS model based on FT-Raman spectra versus the reference TG concentration**



**Fig. 6 Predicted TG concentration of PLS-SPXY model based on FT-Raman spectra versus the reference TG concentration**



**Fig. 7 Predicted HDL-C concentration of PLS-KS model based on FT-Raman spectra versus the reference HDL-C concentration**



**Fig. 8 Predicted HDL-C concentration of PLS-SPXY model based on FT-Raman spectra versus the reference HDL-C concentration**