

光を超音波を用いた非接触血糖値取得

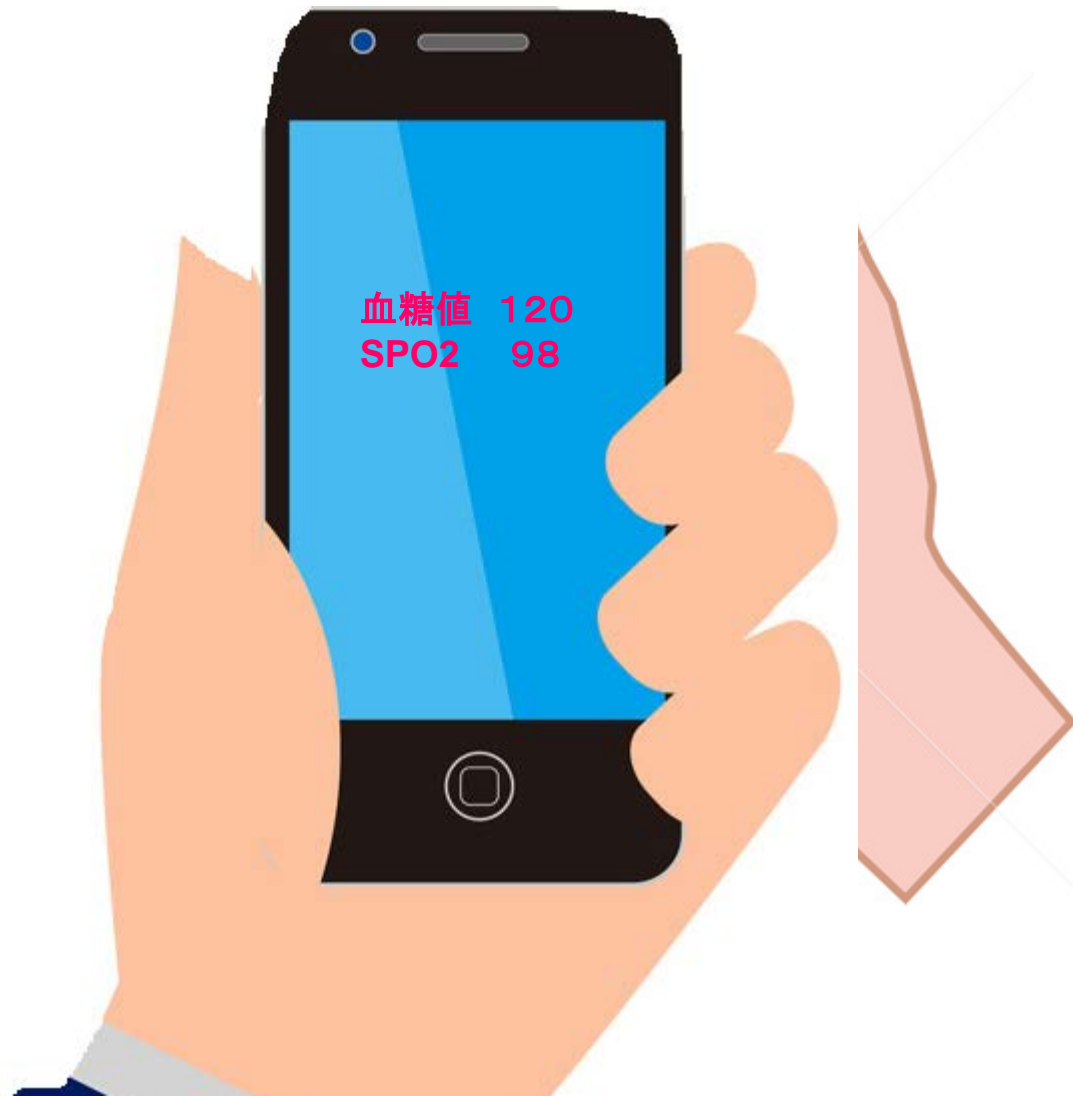
Non Contact Blood Glucose Level Measurement

現行の血糖値測定 Current Measurement Device



非接触血糖値取得システム(イメージ)

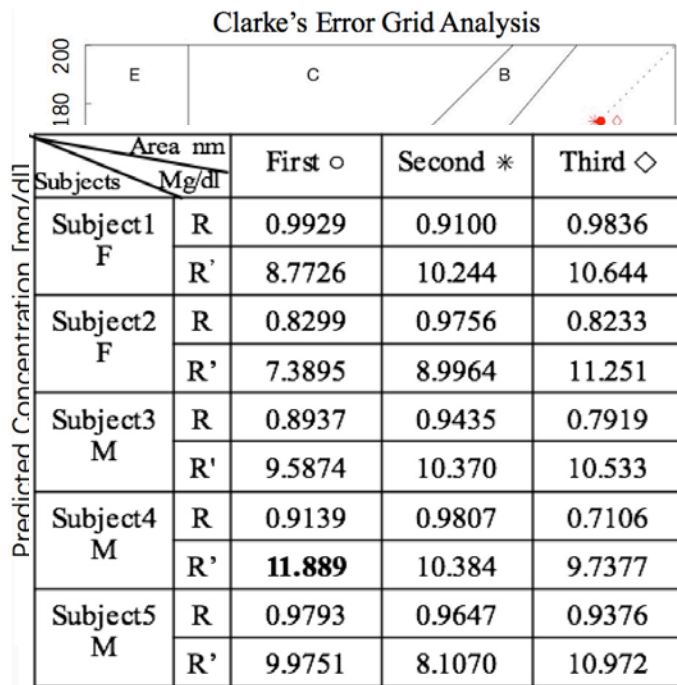
Non Contact Blood Glucose Level Measurement



NIR Spectrometer Results

➤ PLSR: Partial Least Squares Regression

International standard of SMGB
the error is less then or equal to
15mg/dl to comply with ISO 151197 network



First ○ :
1450-1490nm
Second * :
1530-1570nm
Third ◇ :
2130-2170nm

R: correlation coefficient
R': root mean squared error of prediction

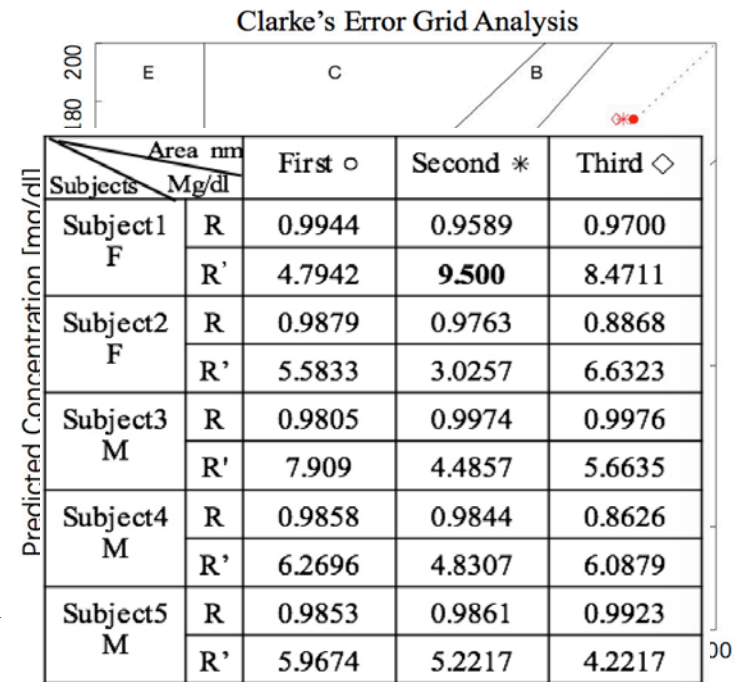


Fig.8 The results of five subjects from three characteristic spectrum area by PLSR and ANN method