

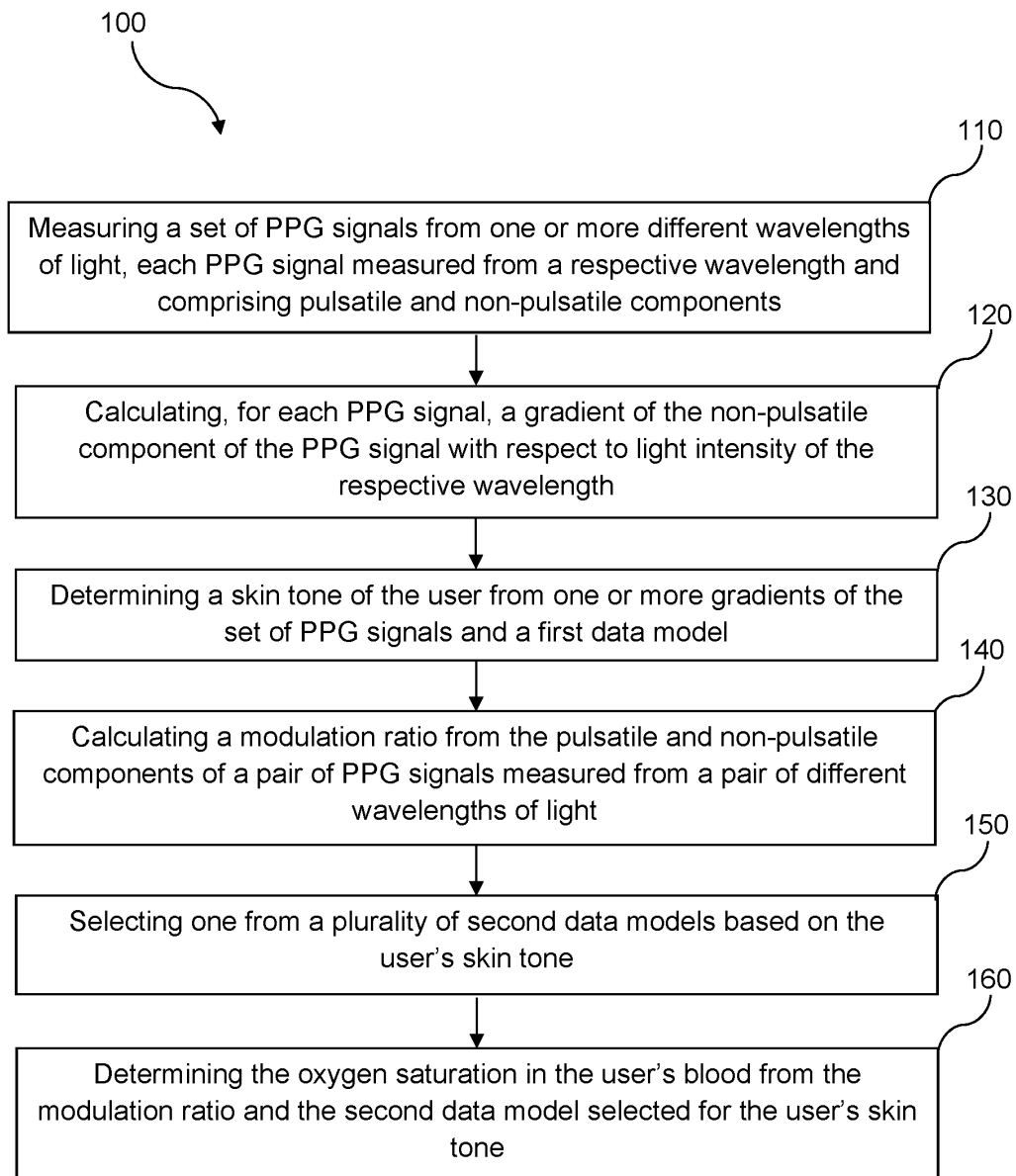


Figure 1

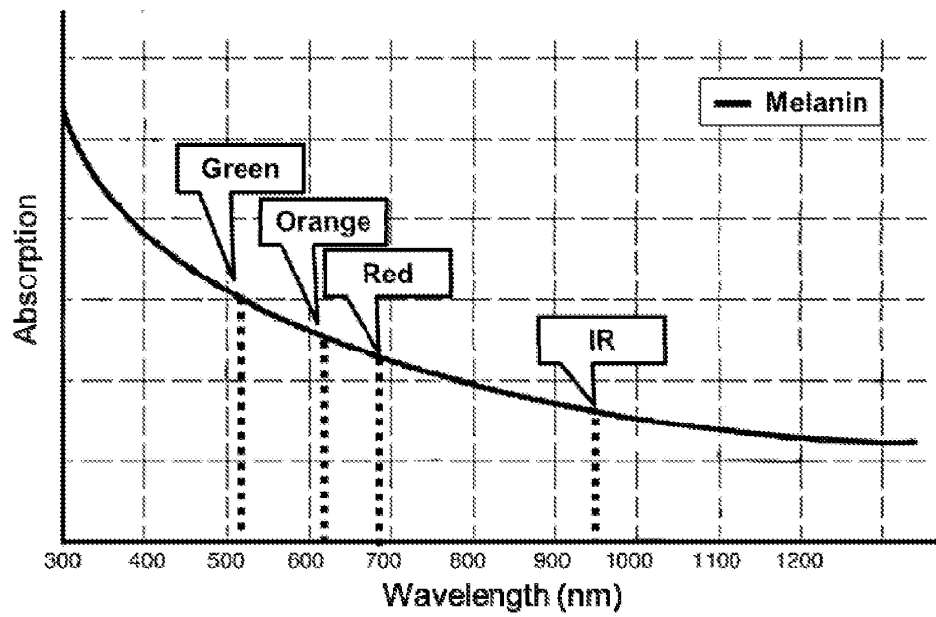


Figure 2A

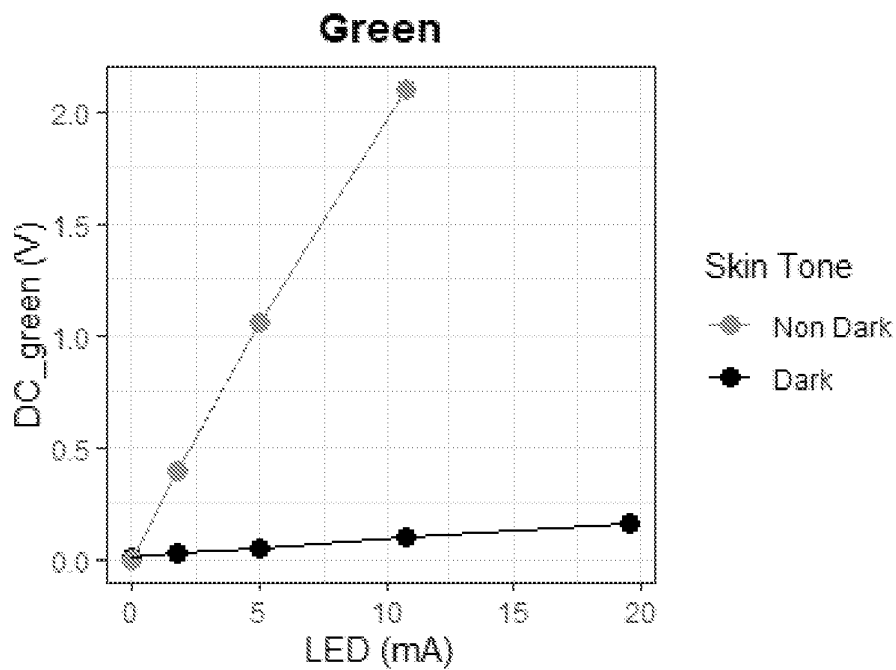


Figure 2B

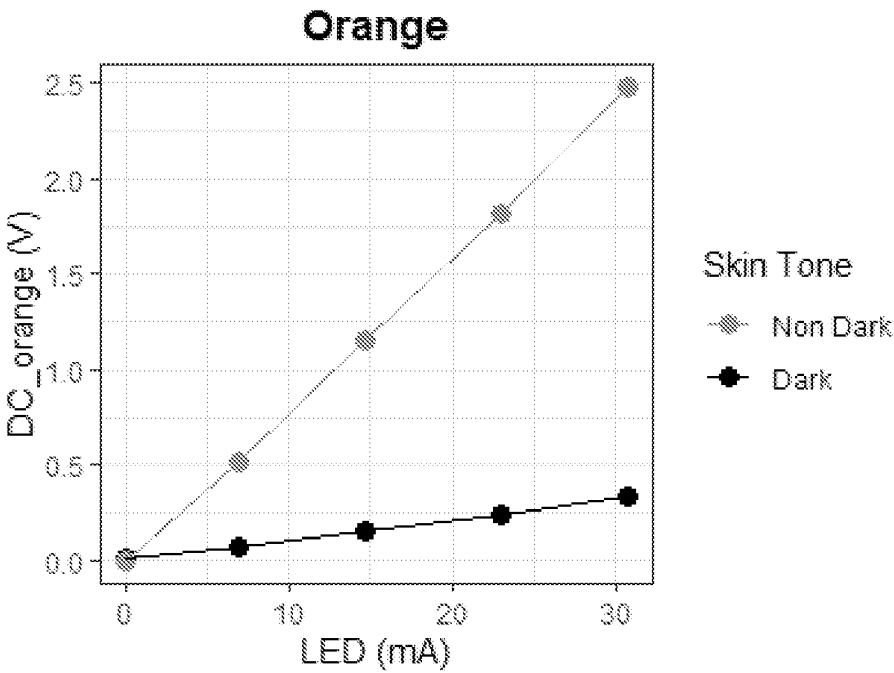


Figure 2C

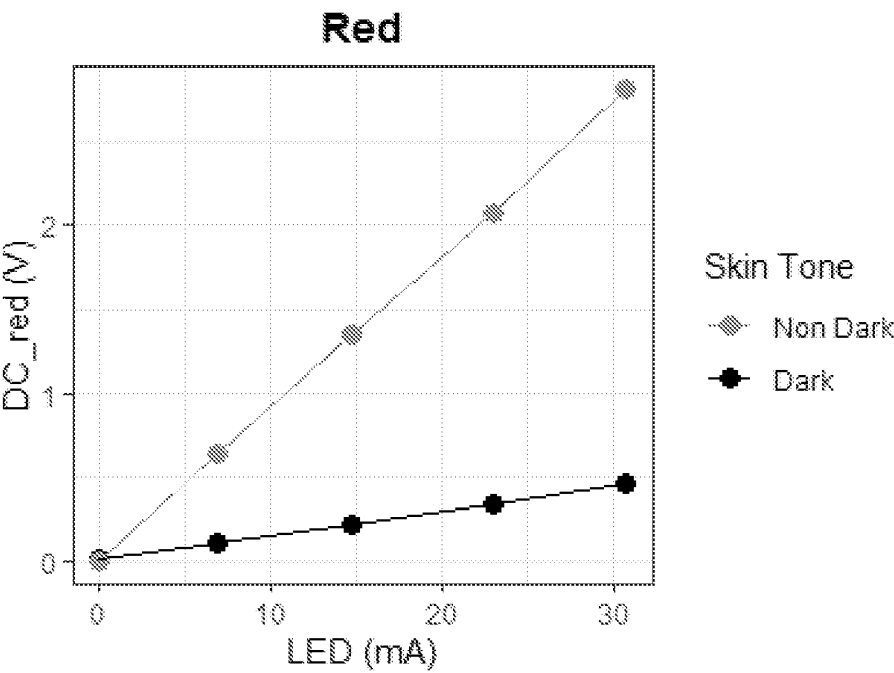


Figure 2D

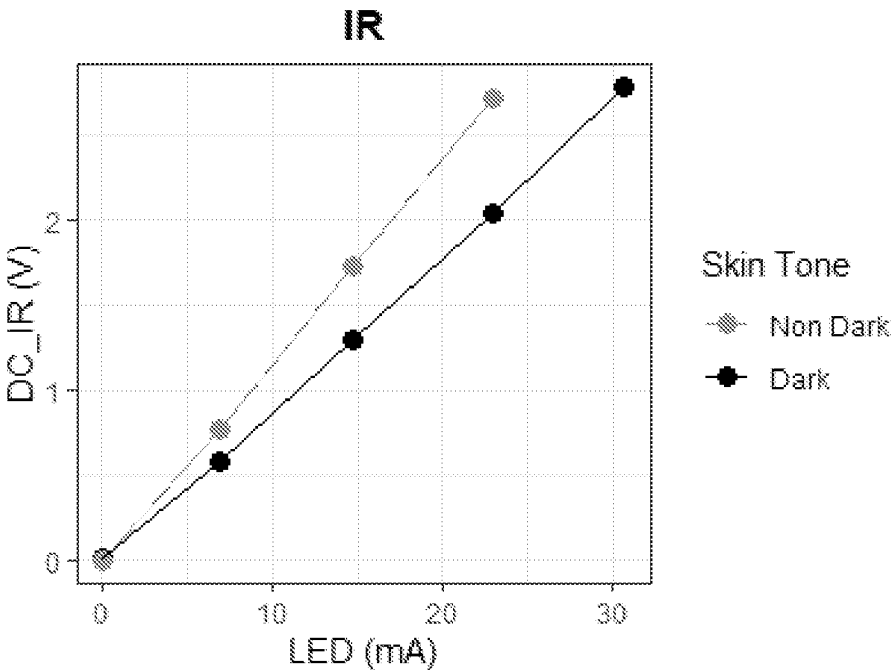


Figure 2E

		Actual Skin Tone	
		Non-dark	Dark
Predicted Skin Tone	Non-dark	TN	FN
	Dark	FP	TP

Accuracy = $\frac{TN + TP}{TN + FN + TP + FP}$

Precision = $\frac{TP}{TP + FP}$

Sensitivity = $\frac{TP}{FN + TP}$

Specificity = $\frac{TN}{TN + FP}$

Figure 3A

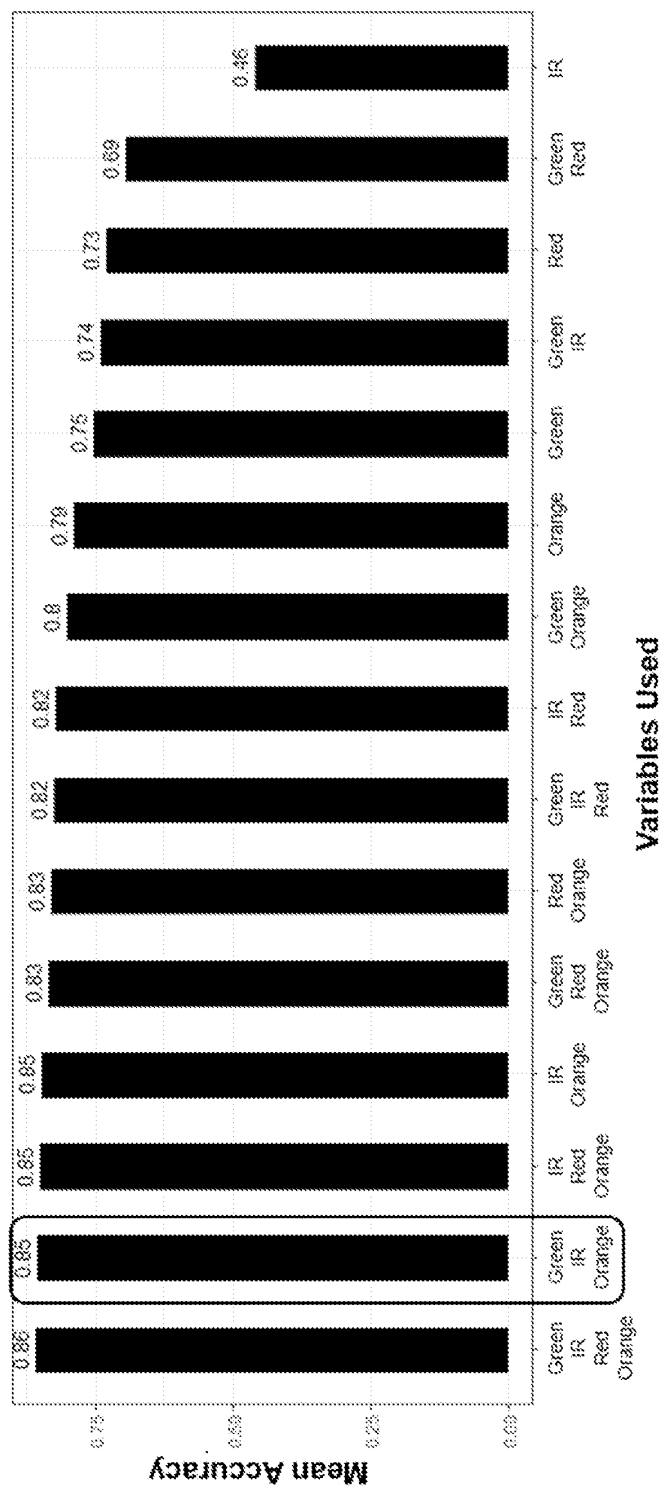


Figure 3B

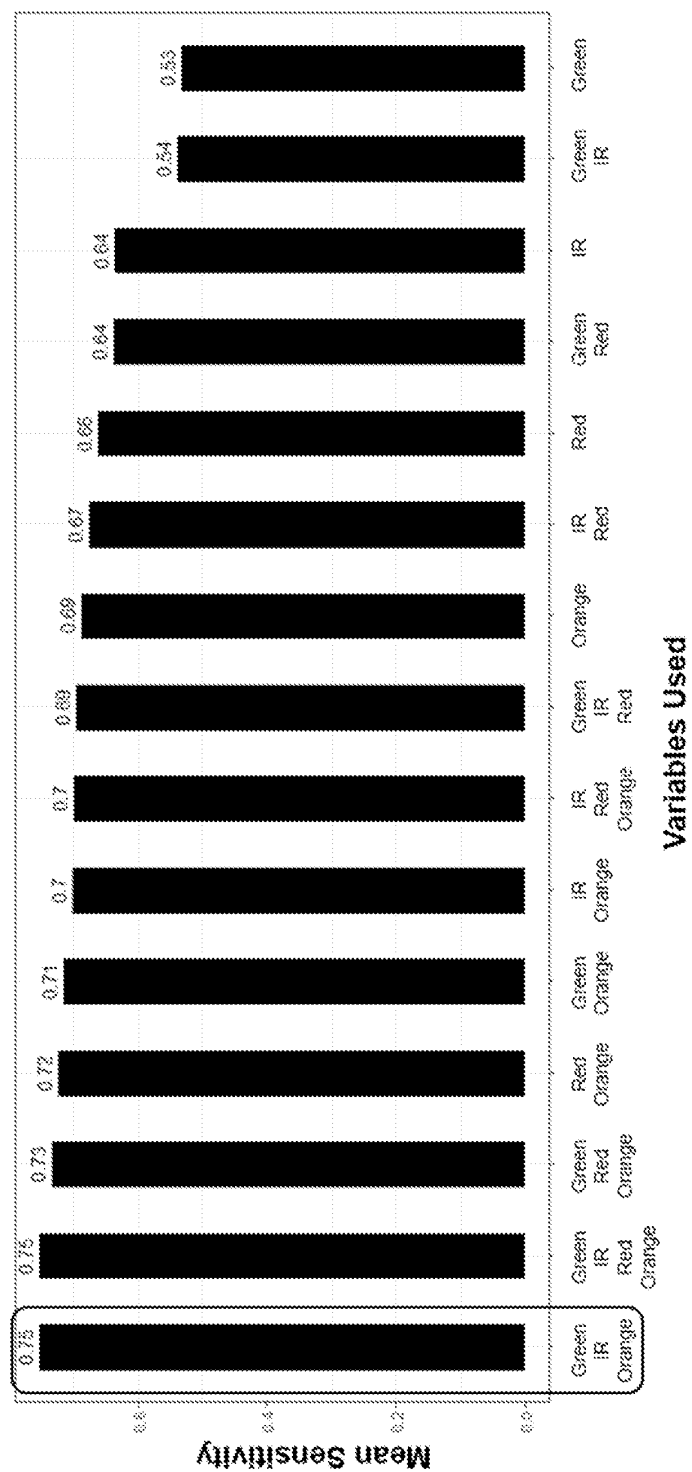


Figure 3C

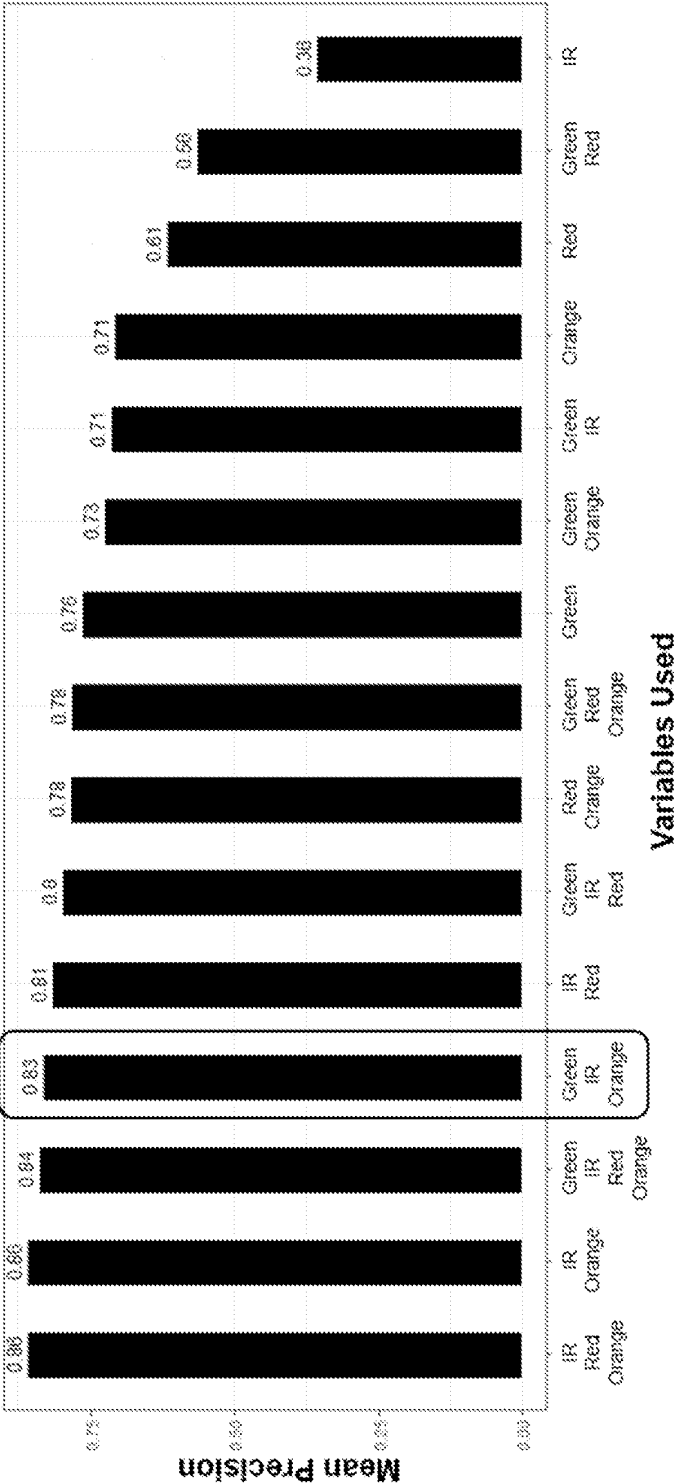


Figure 3D

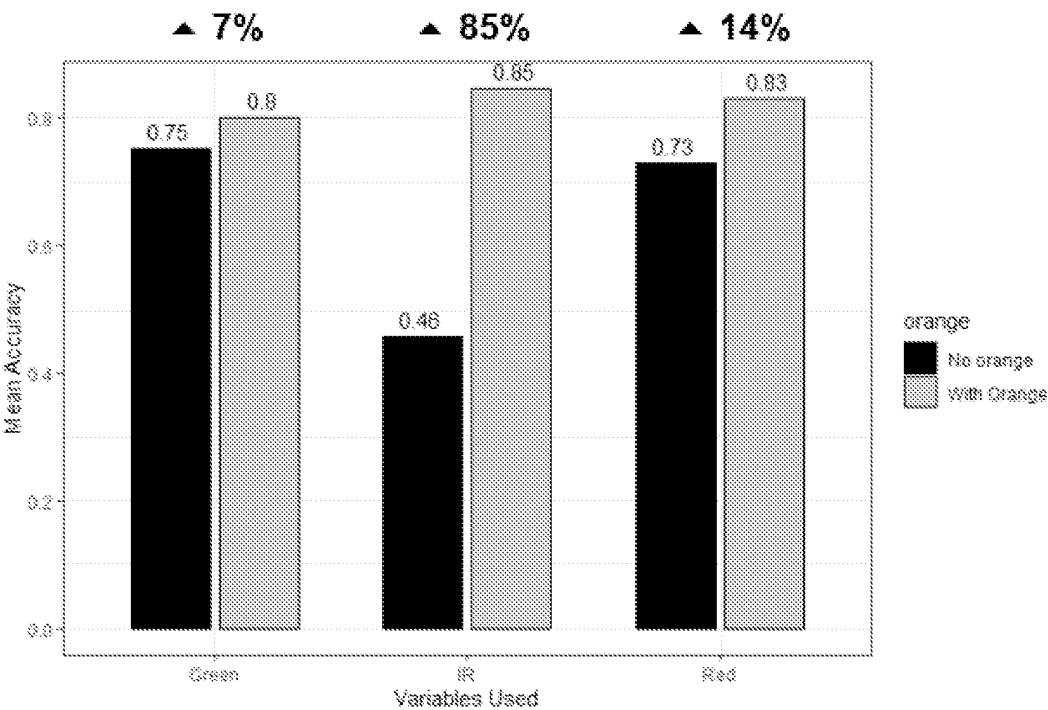


Figure 3E

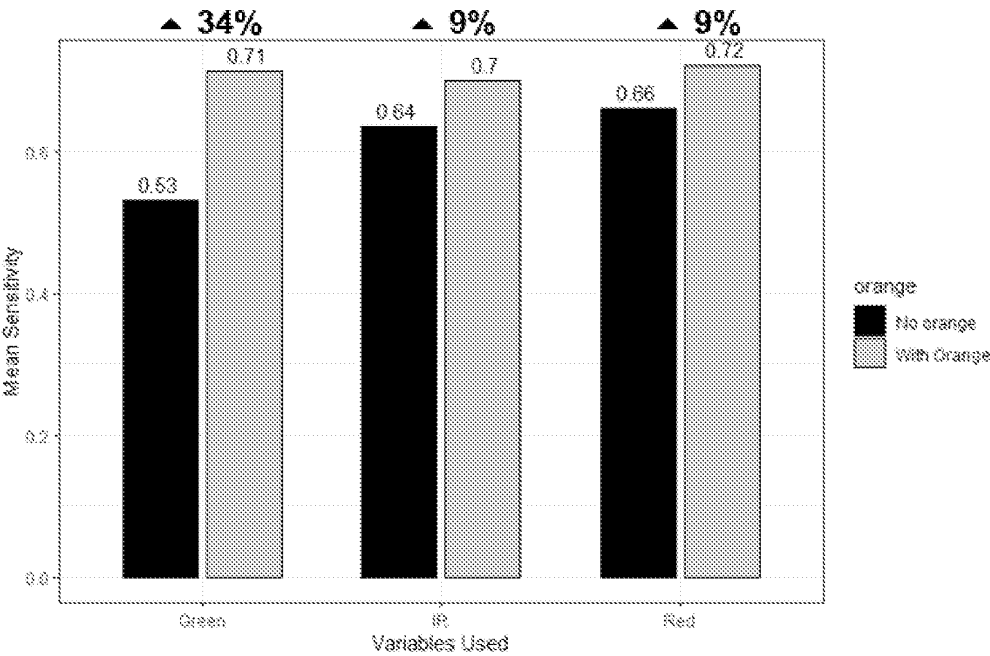


Figure 3F

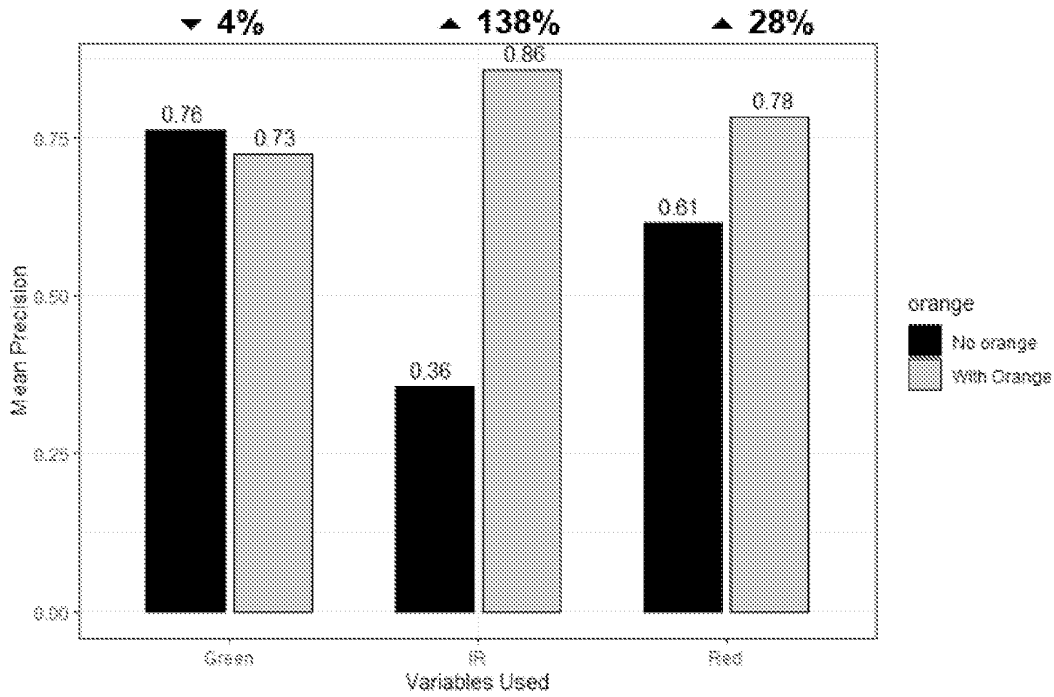


Figure 3G

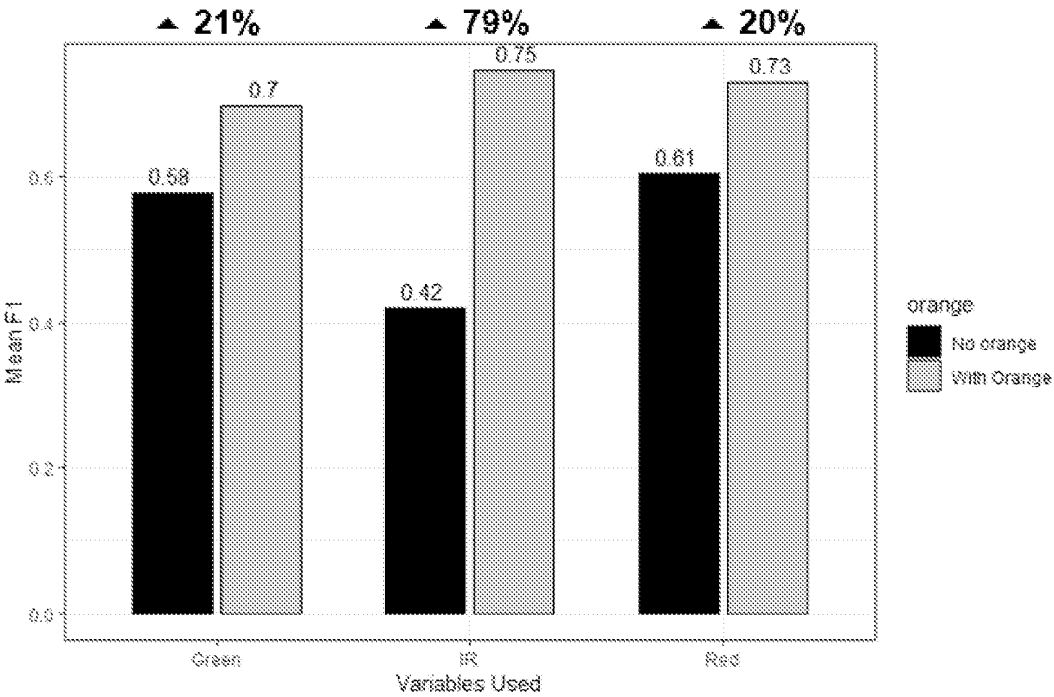


Figure 3H

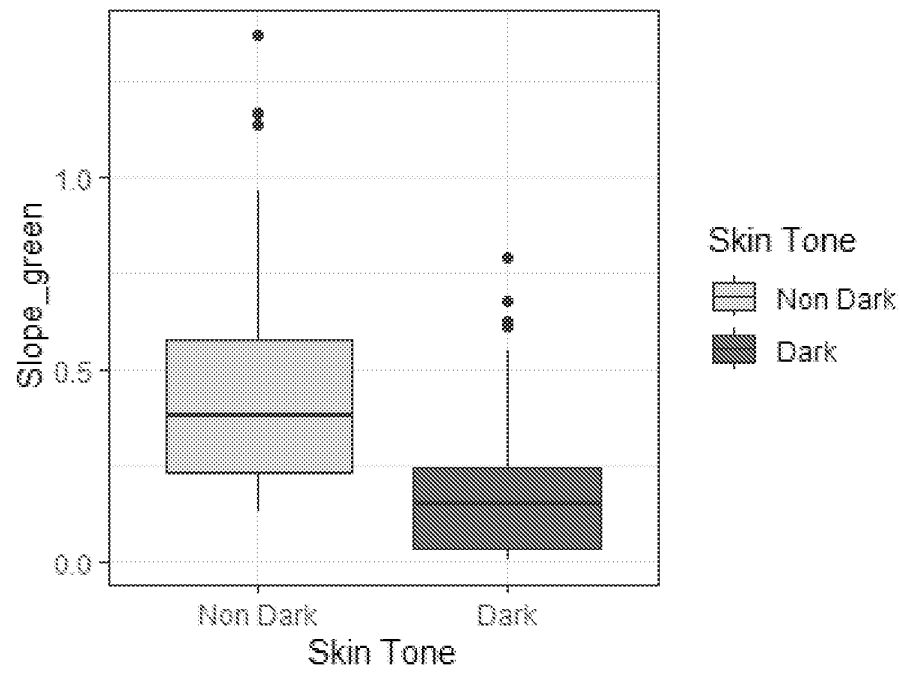


Figure 3I

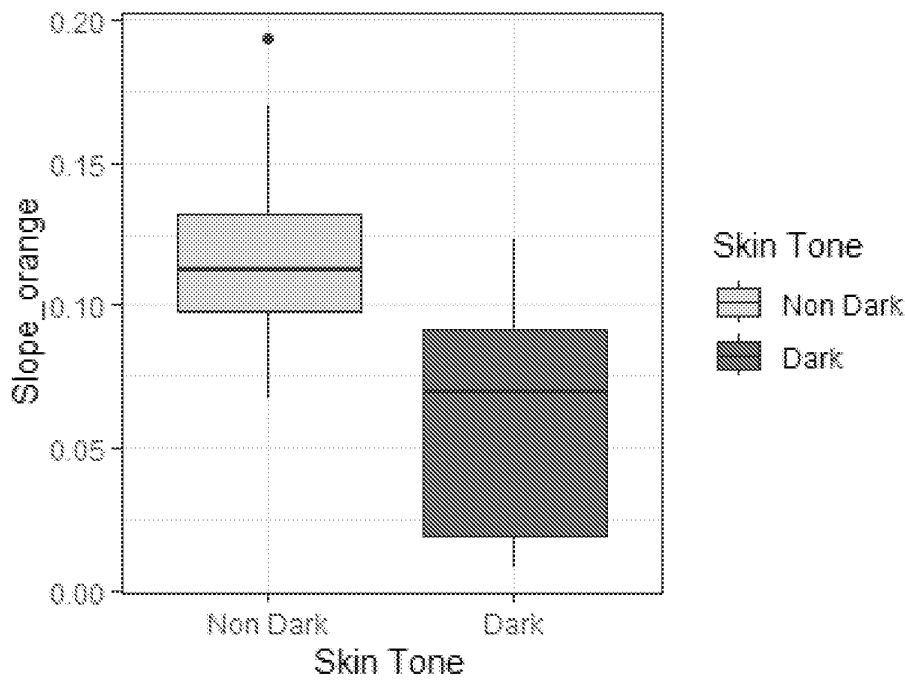


Figure 3J

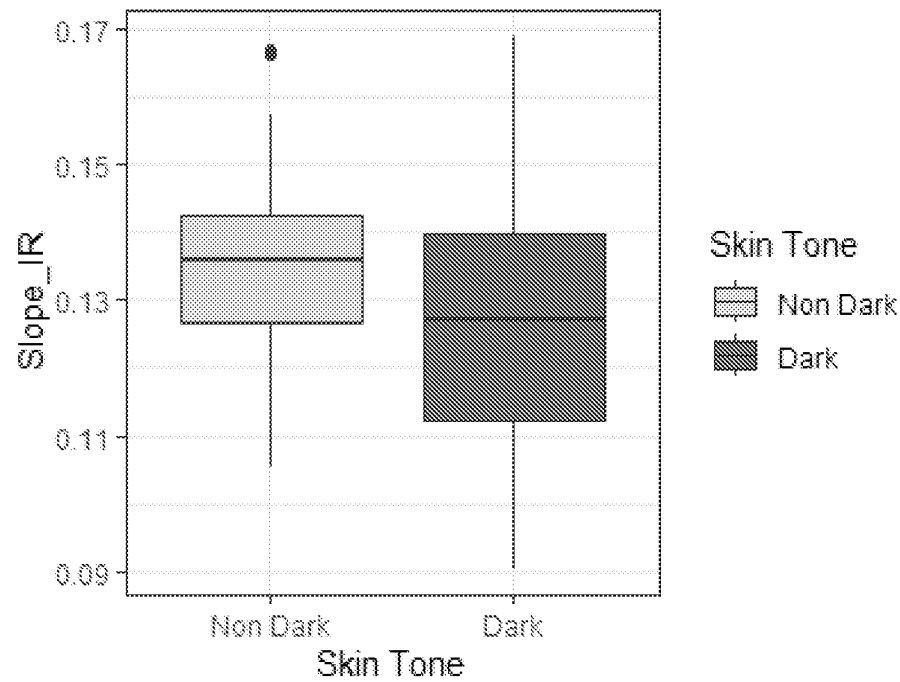


Figure 3K

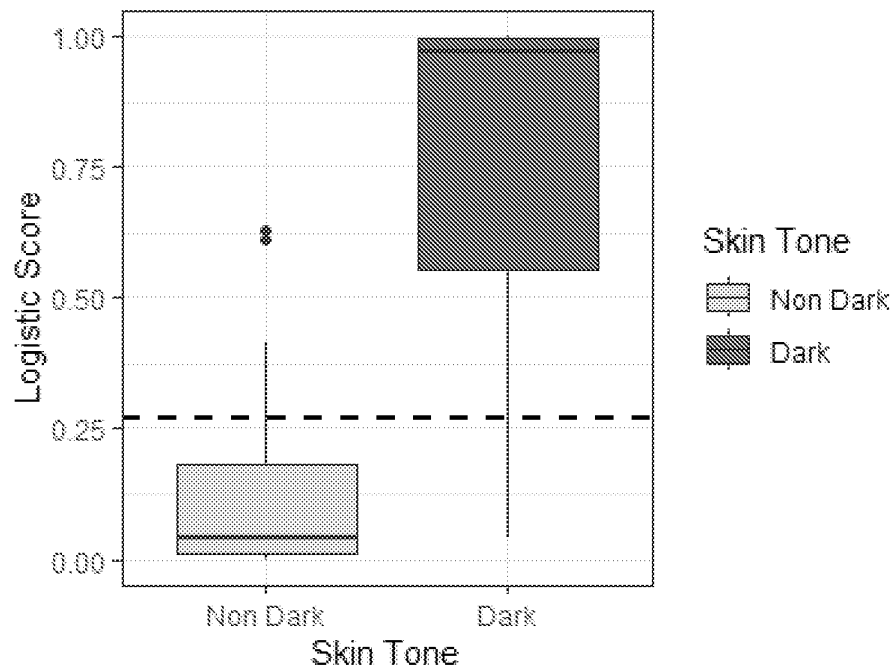


Figure 3L

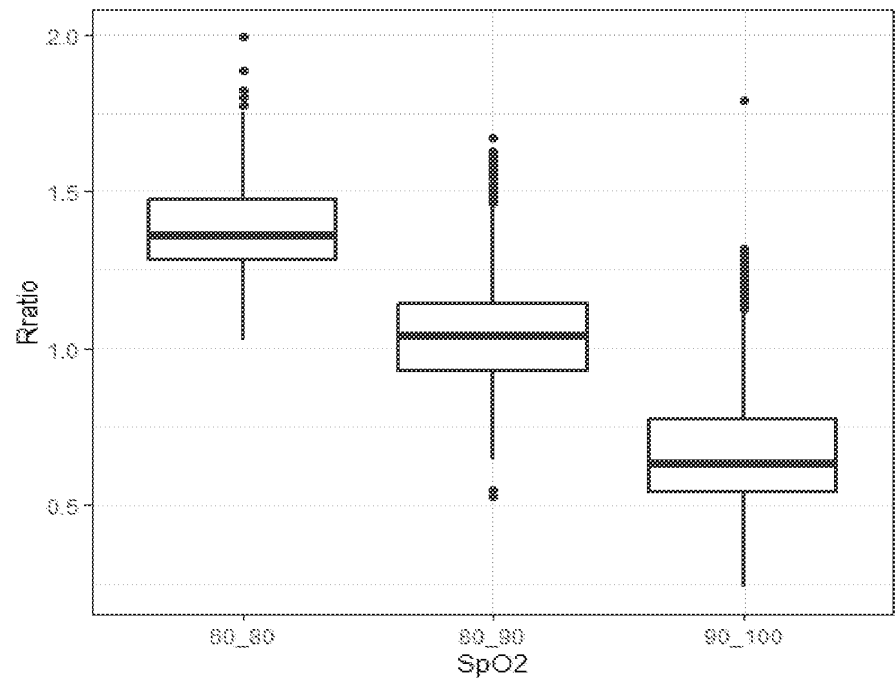


Figure 4A

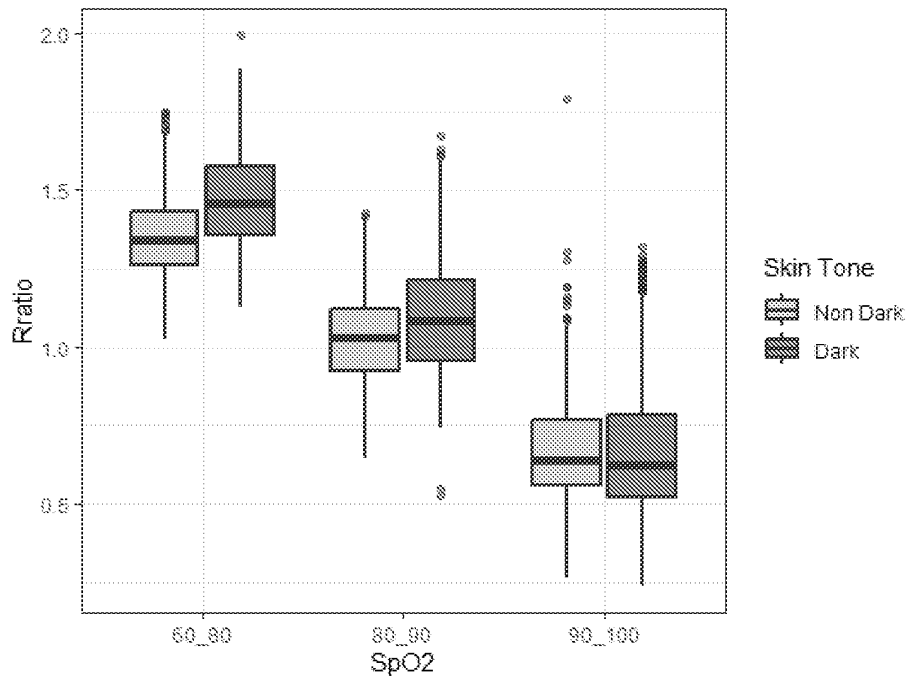


Figure 4B

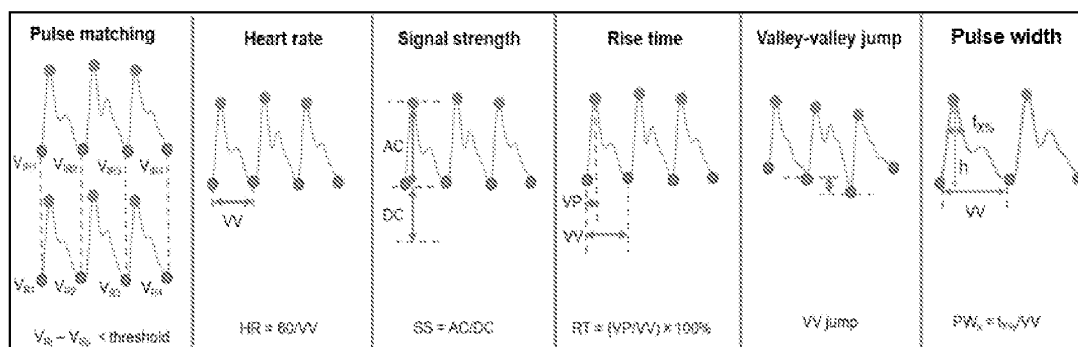


Figure 5A

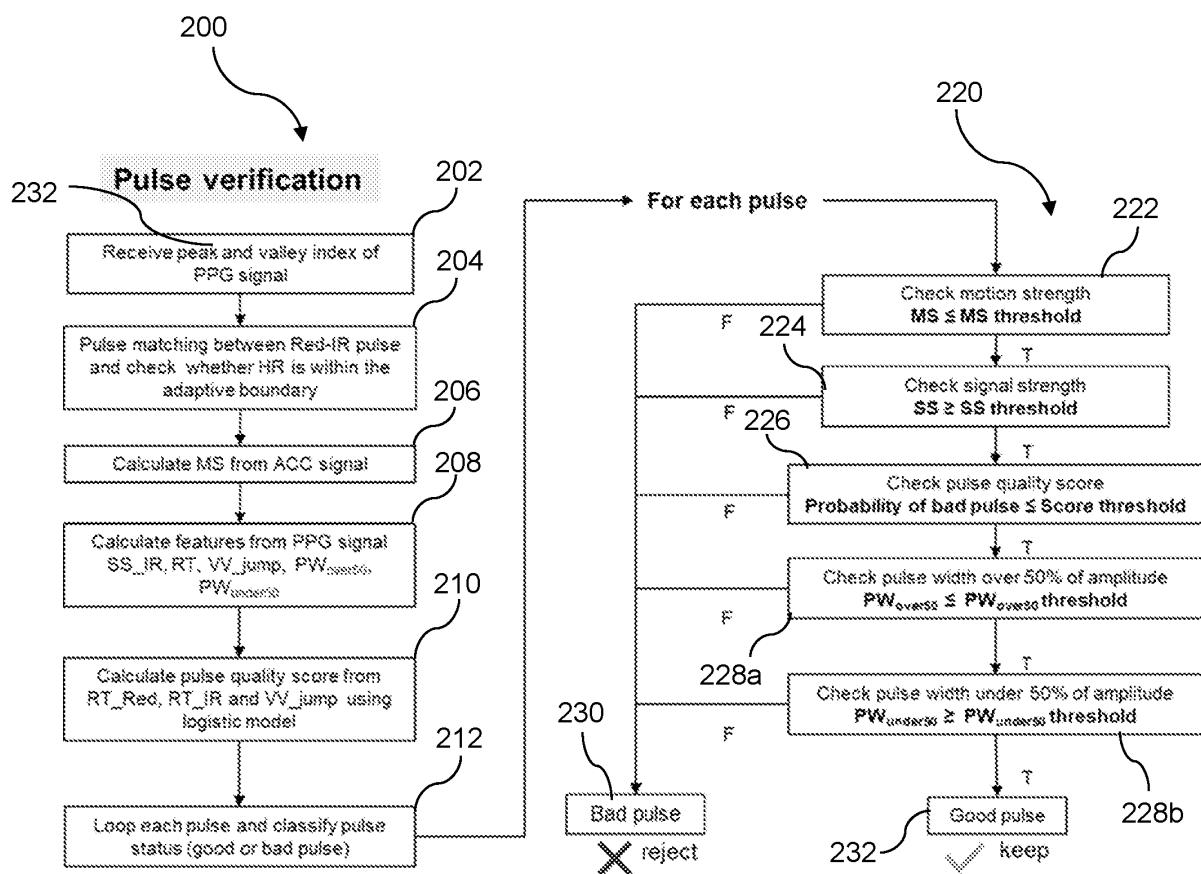
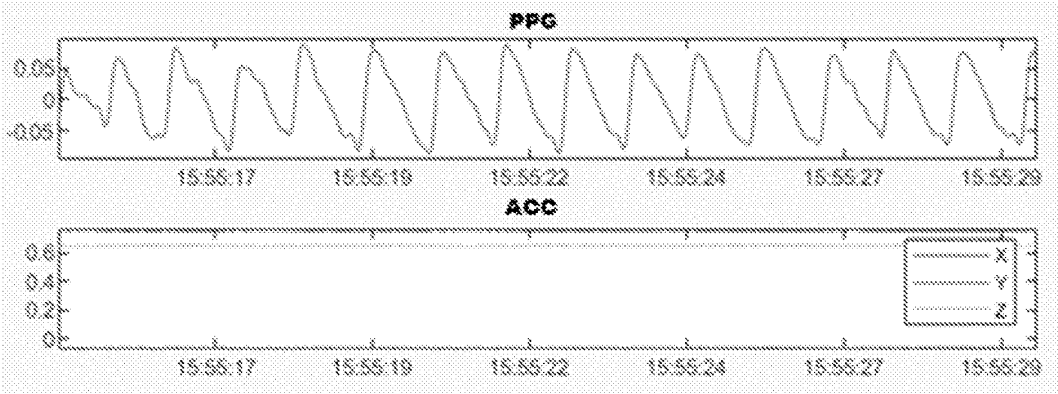


Figure 5B

Without motion



With motion

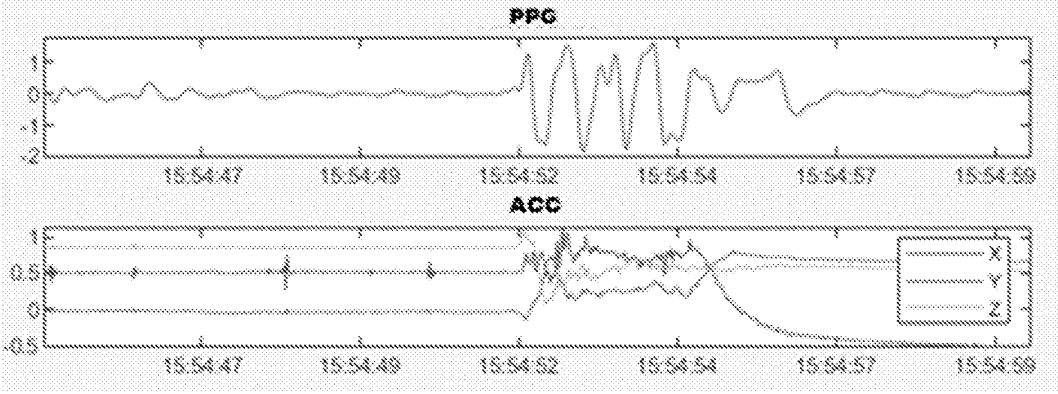


Figure 6A

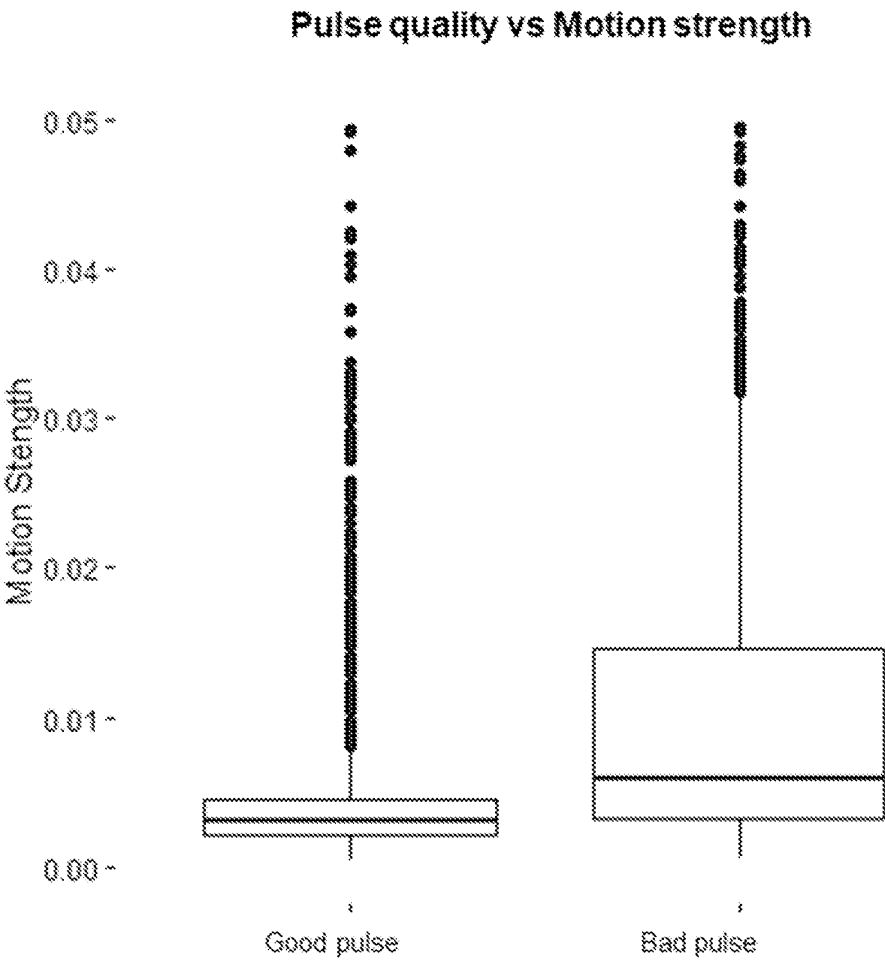
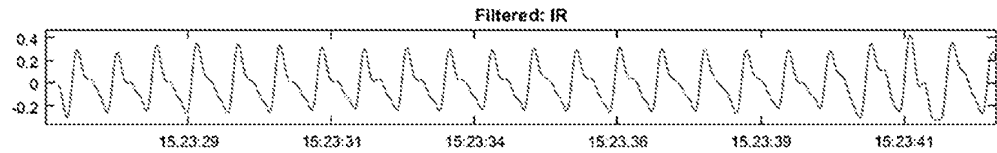


Figure 6B

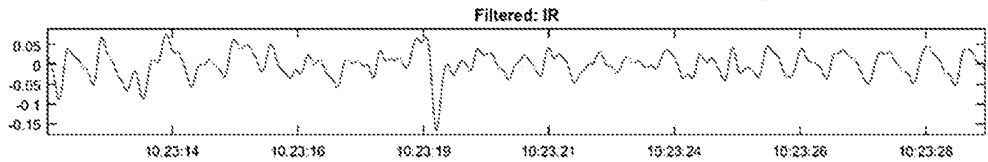
High signal strength

Human: $SS_{IR} \sim 0.55$



Low signal strength

Human: $SS_{IR} \sim 0.010 - 0.015$



Object (Screen): $SS_{IR} \sim 0.009$

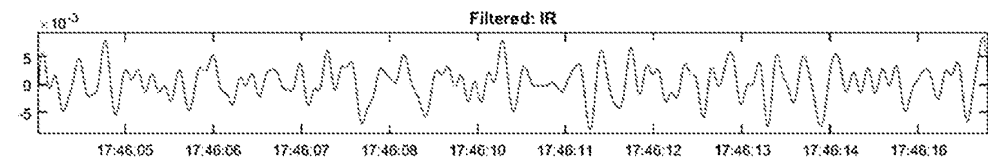


Figure 7A

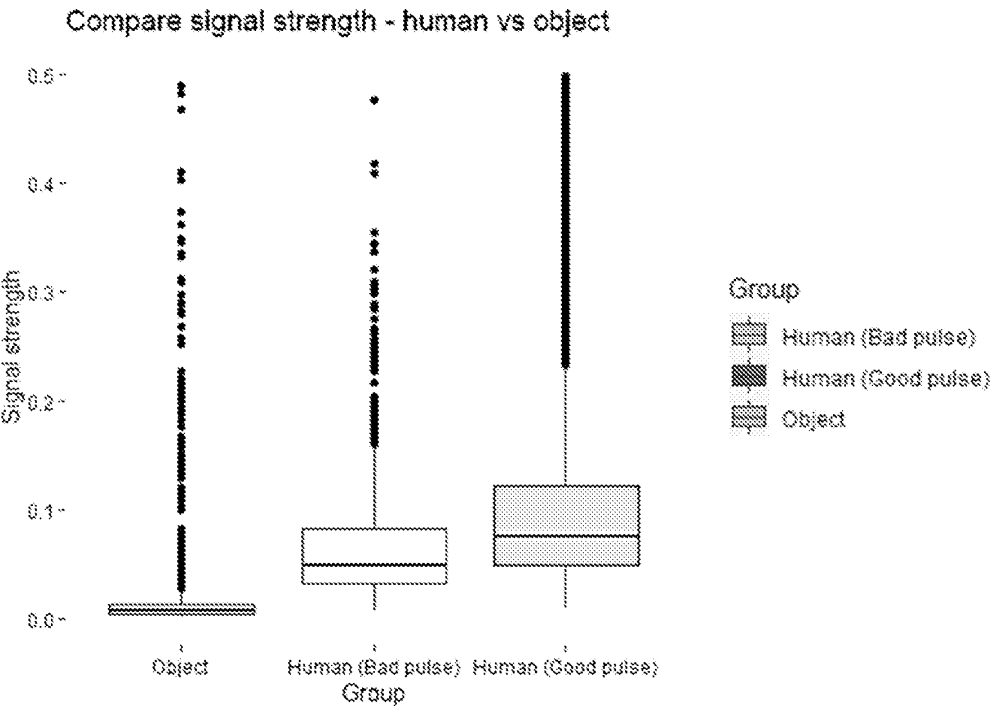


Figure 7B

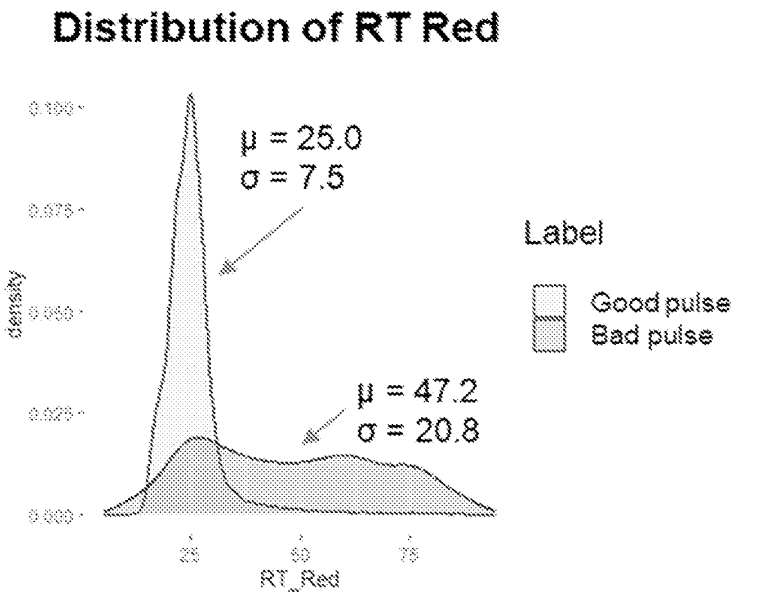


Figure 8A

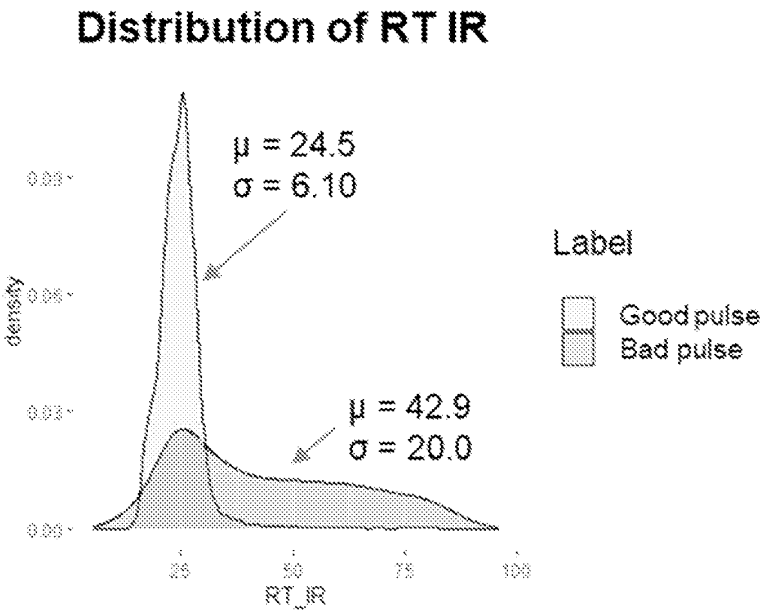


Figure 8B

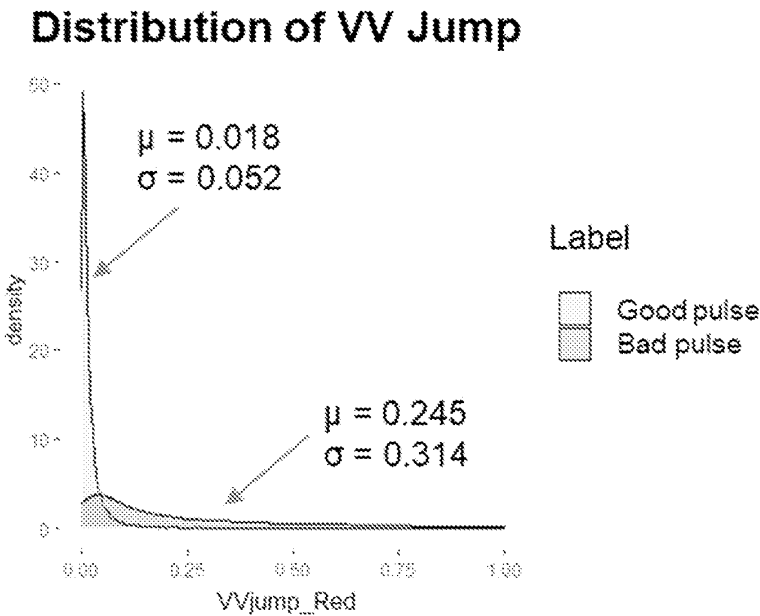


Figure 8C

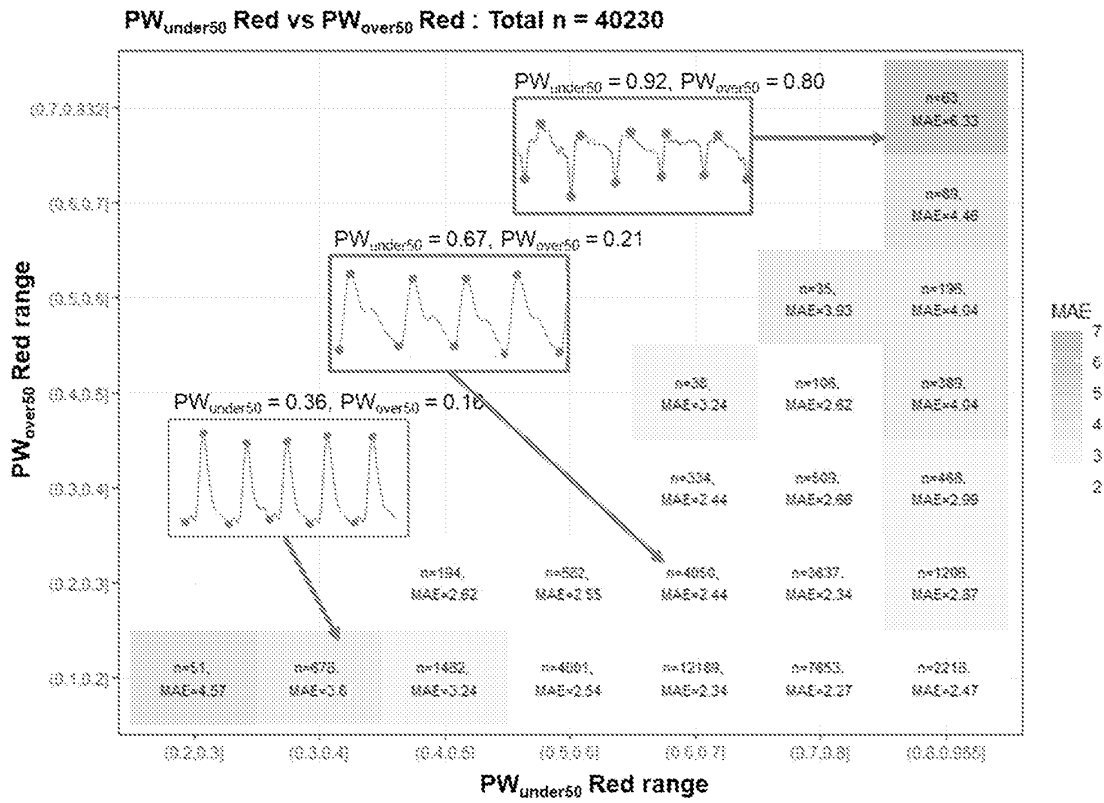


Figure 8D

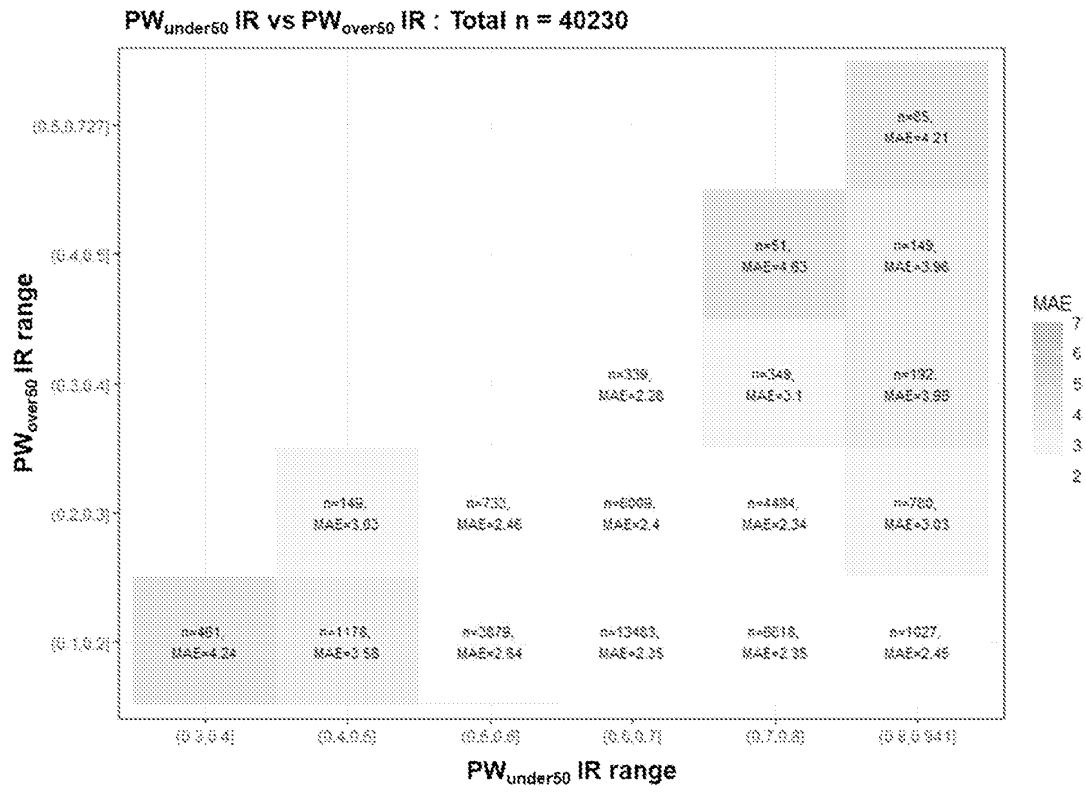


Figure 8E

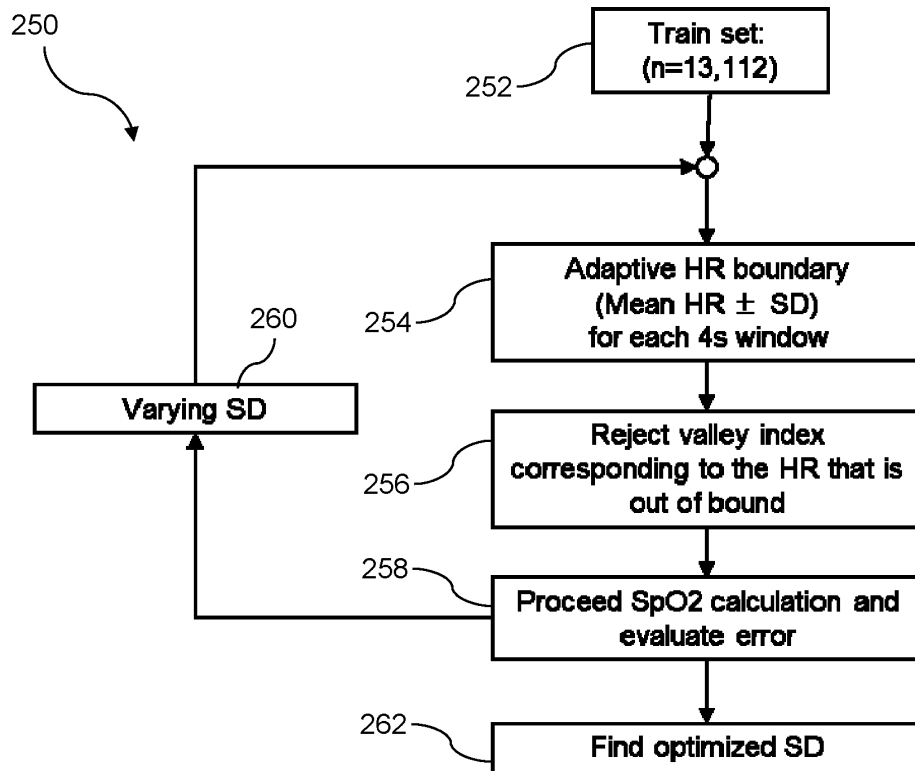
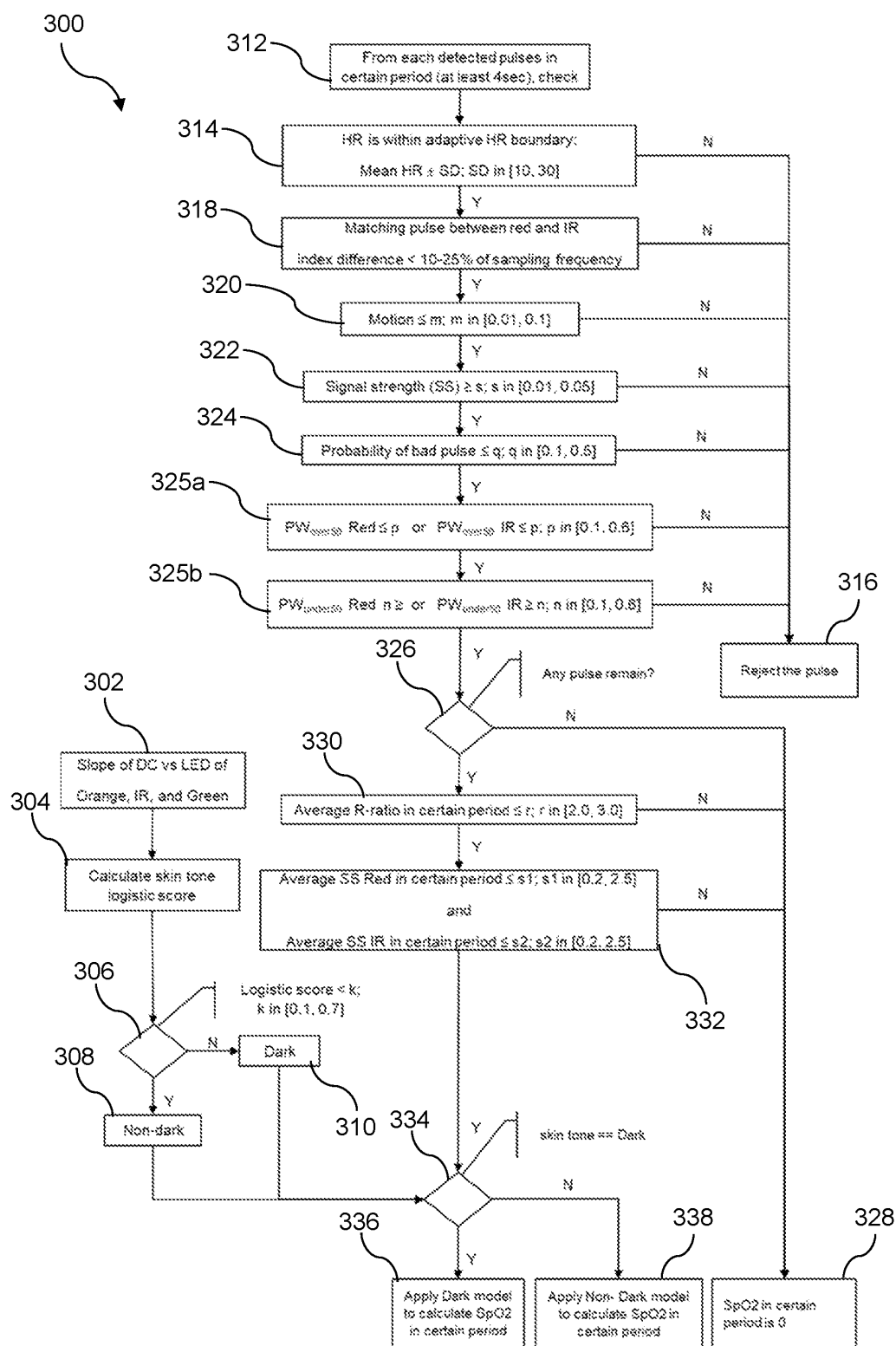


Figure 9



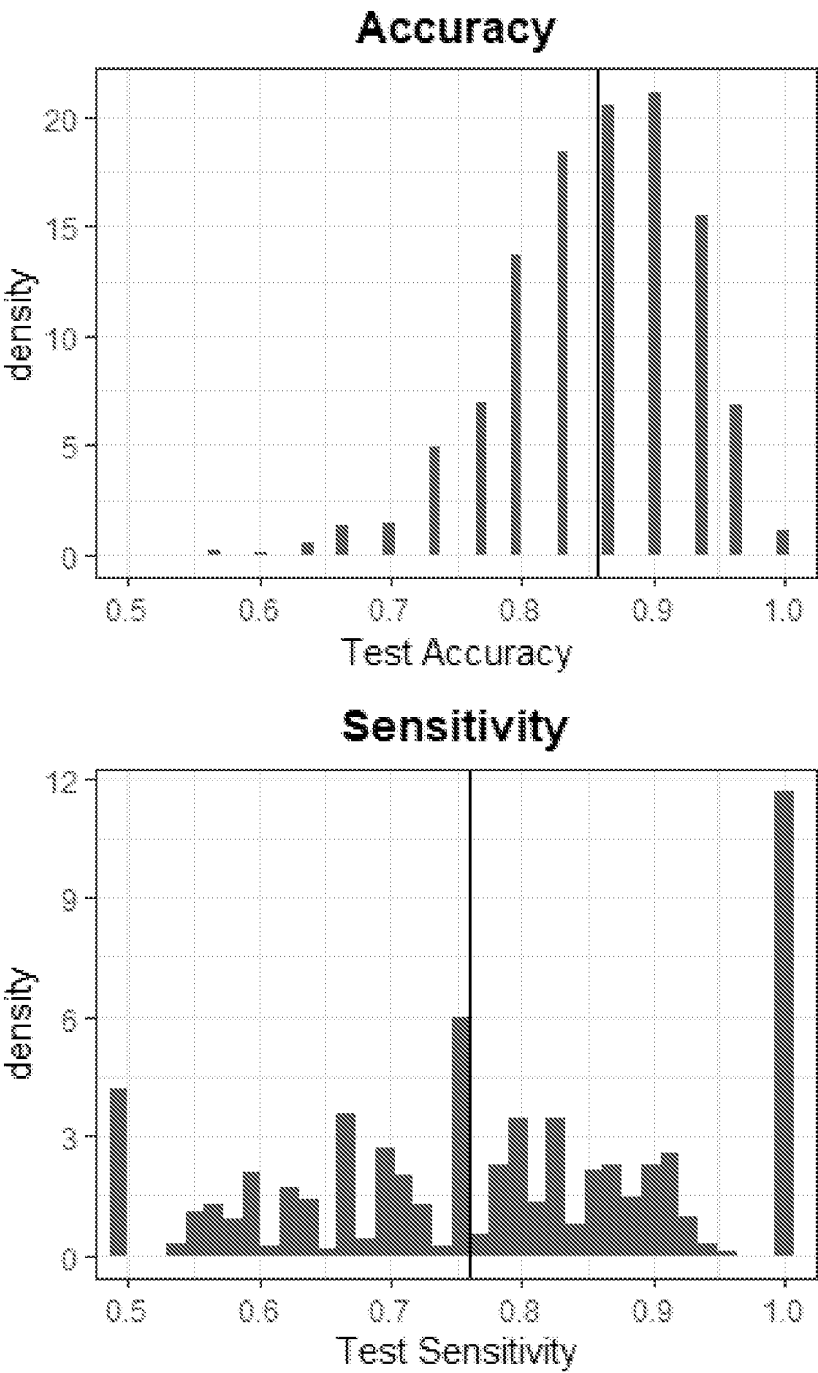


Figure 11A

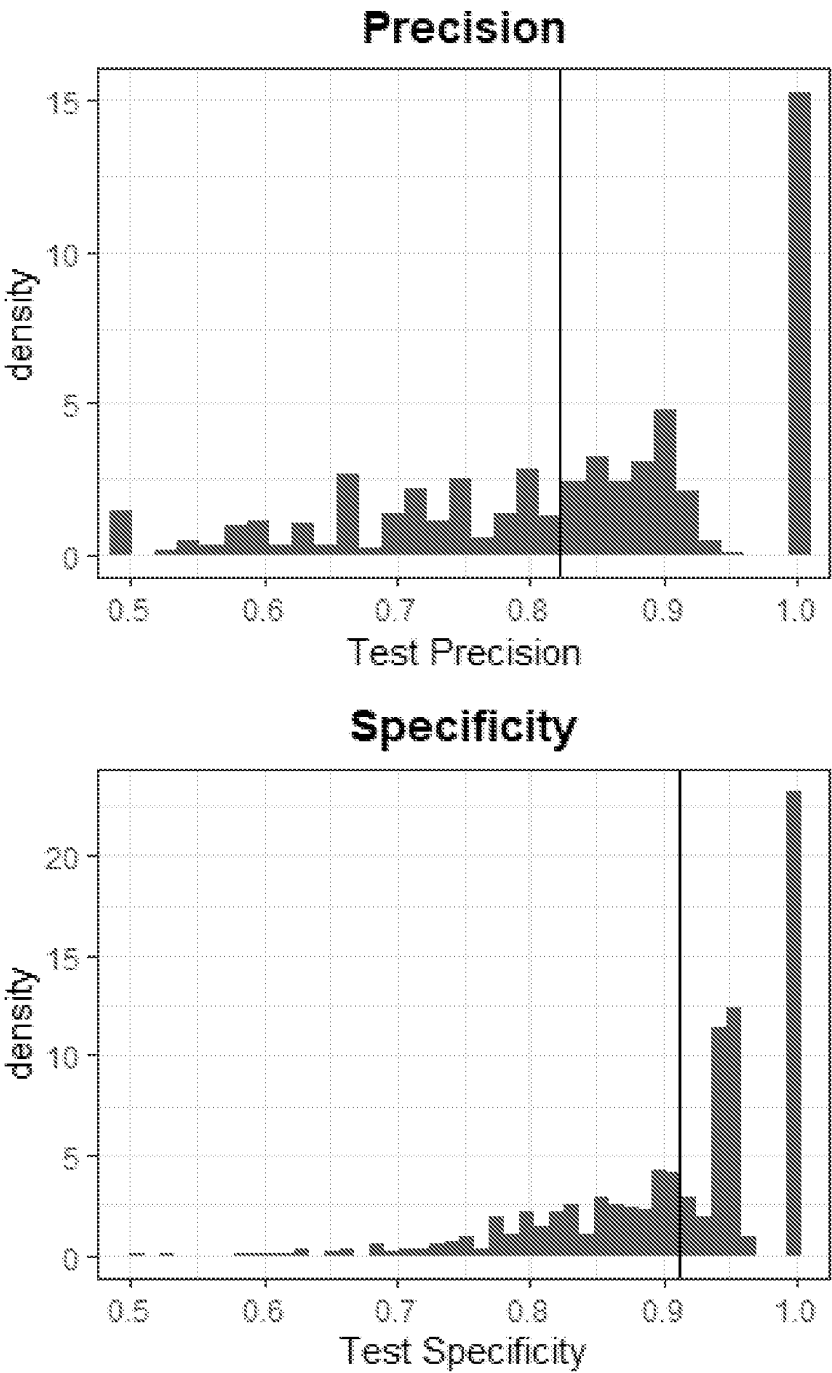


Figure 11B

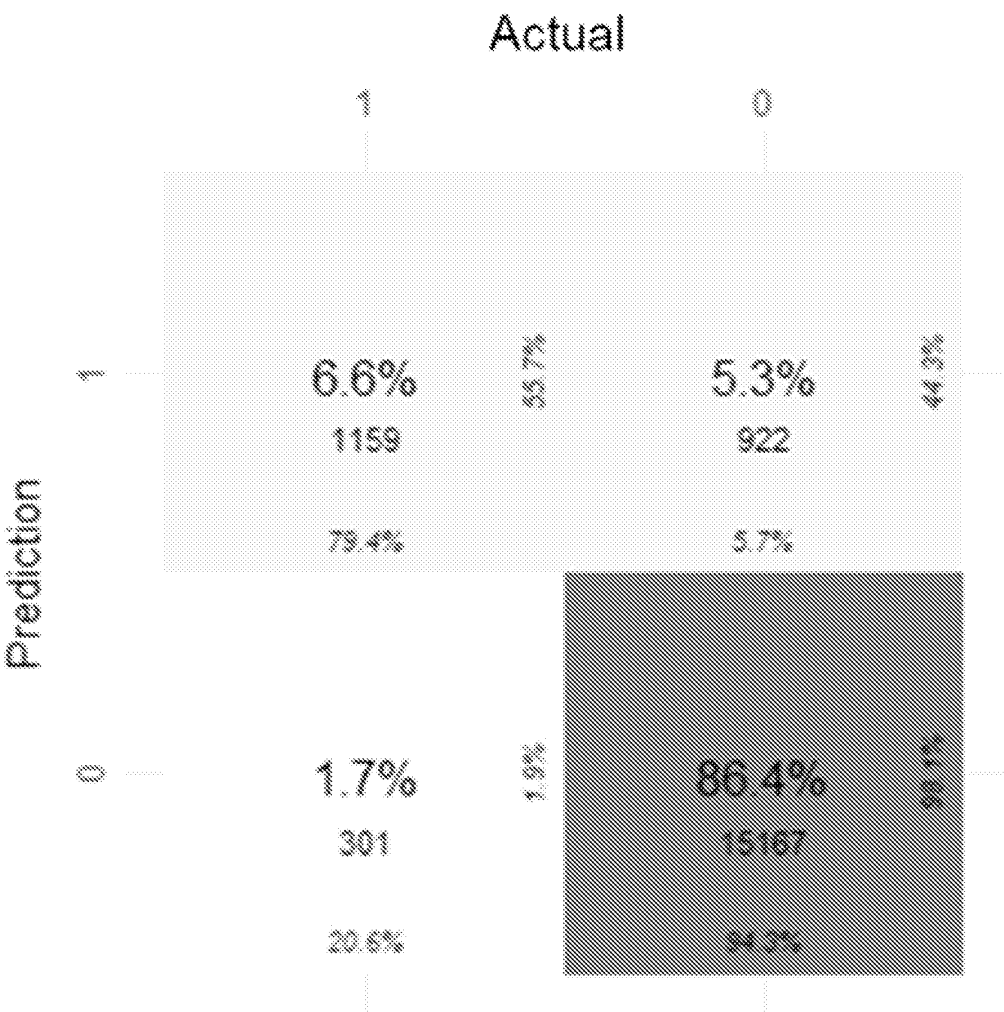


Figure 11C

Distribution of Test RMSE of SpO2

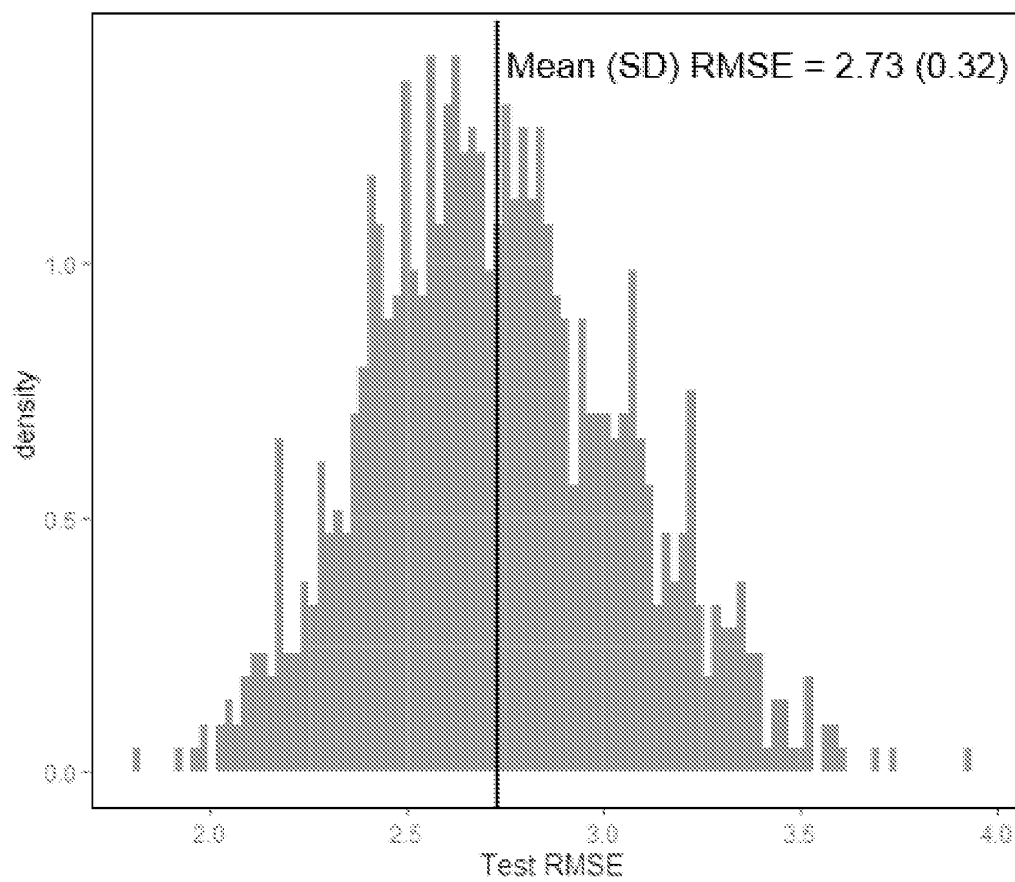


Figure 11D