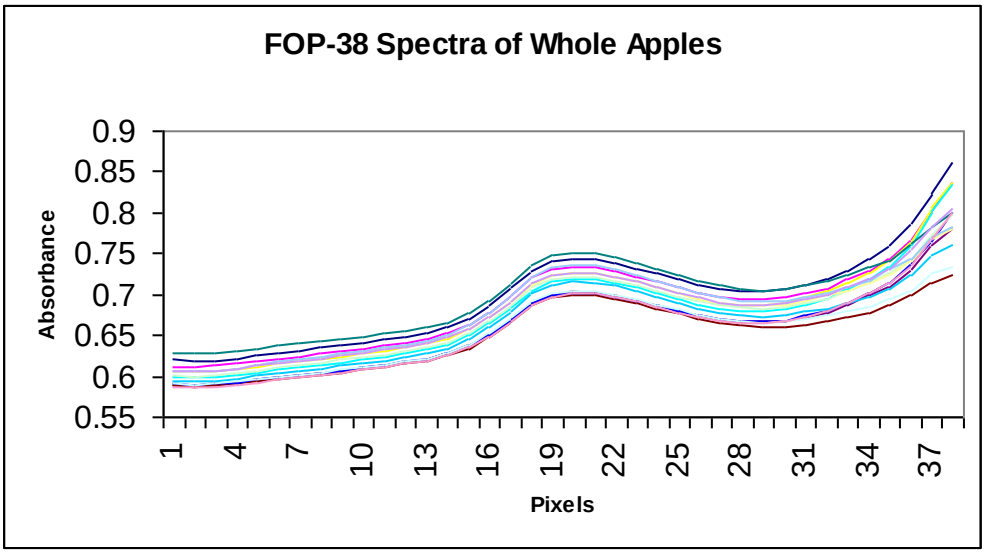
Introduction:

Near Infrared Spectroscopy provides a means of measuring protein, fat, moisture and sugars in a broad range of foods and agricultural products. The measurement of fruit for Brix is well documented, however other components such as Titratable Acids are not well established.

A simple study was undertaken to demonstrate the ability of the FOP-38 Fibre Optic Probe Analyser to collect spectra of whole apples.

3 apples of different types, ie, Granny Smith, Delicious and Pink Lady, were scanned using a FOP-38 Interactance probe placed up against the outer skin of the apples. Five spectra were collected from around each apple to generate 15 spectra. Figure 1. shows the NIR spectra for these apples across the wavelength range 720-1100nm.



Discussion:

As there were no Brix or TA data available for these apples, it is not possible to ascertain the possibility of calibrating for these components in whole apples. However it is expected that at least a calibration for Brix can be developed.

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