

Combining Random Forest and 2D Correlation Analysis to identify serum spectral signatures for neurooncology†

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Electronic Supplementary Information

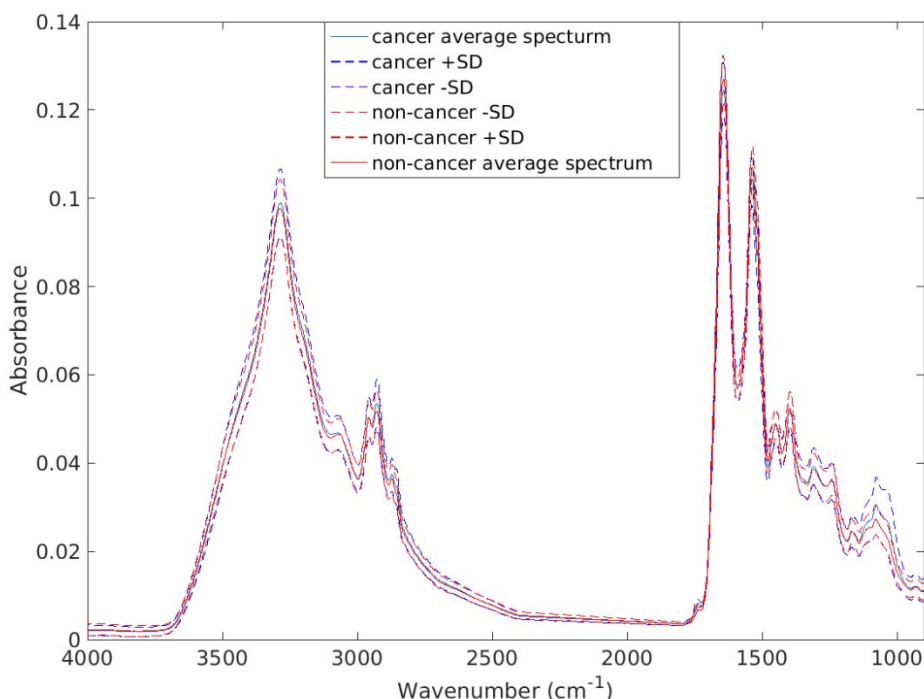


Fig. S1 Average spectra for cancer and non-cancer, together with their standard deviations.

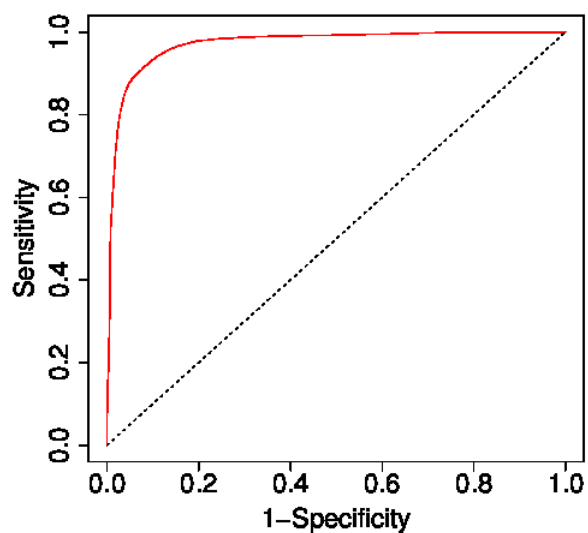


Fig. S2 Receiver Operator Curve from the second derivative 900–1800 cm^{-1} range.

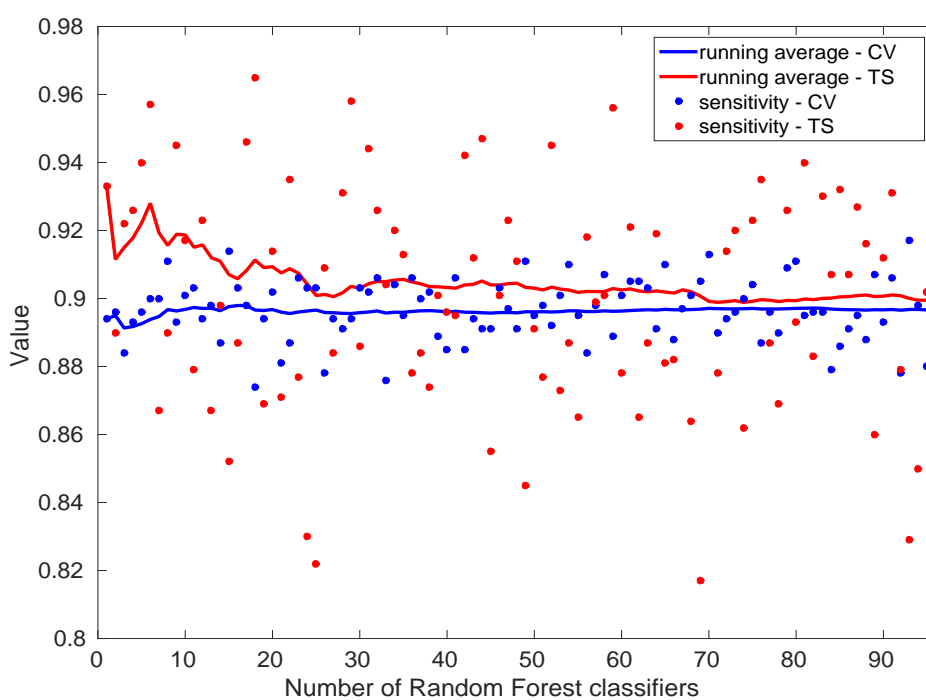


Fig. S3 Convergence of sensitivity w.r.t. number of RF models.

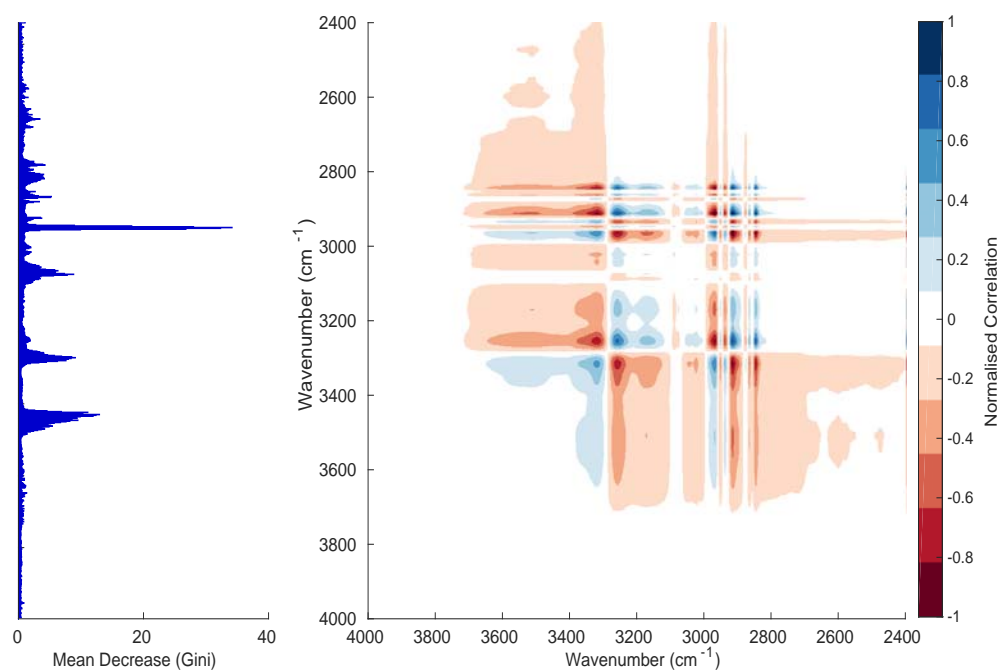


Fig. S4 Gini Importance Chart – 2400–4000 cm⁻¹ First Derivative with Synchronous 2D plot.

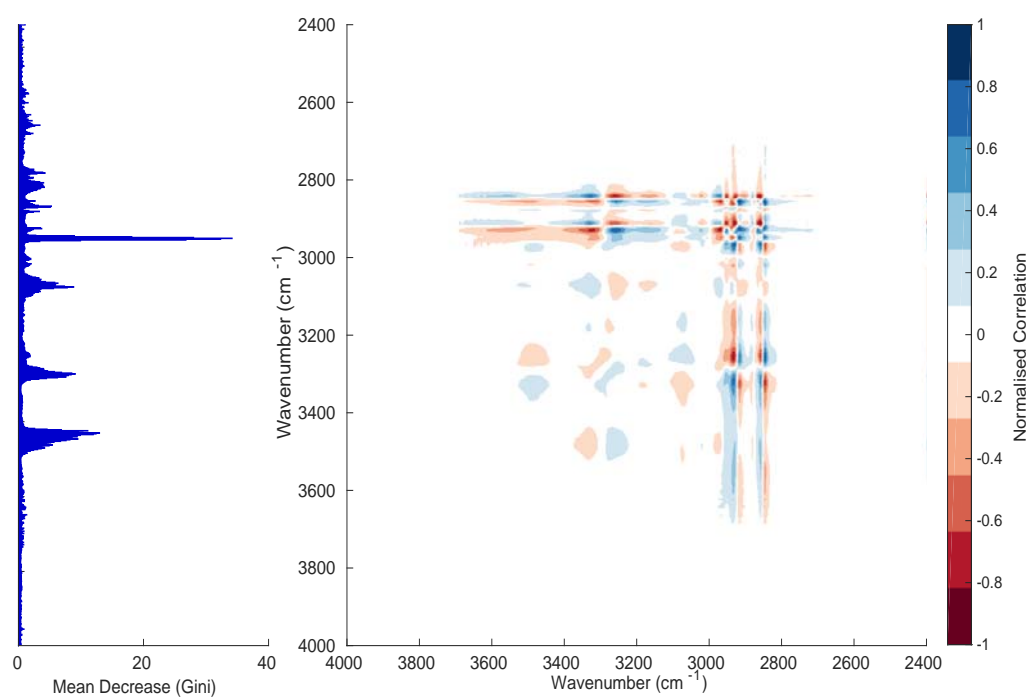


Fig. S5 Gini Importance Chart – 2400–4000 cm⁻¹ First Derivative with Asynchronous 2D plot.

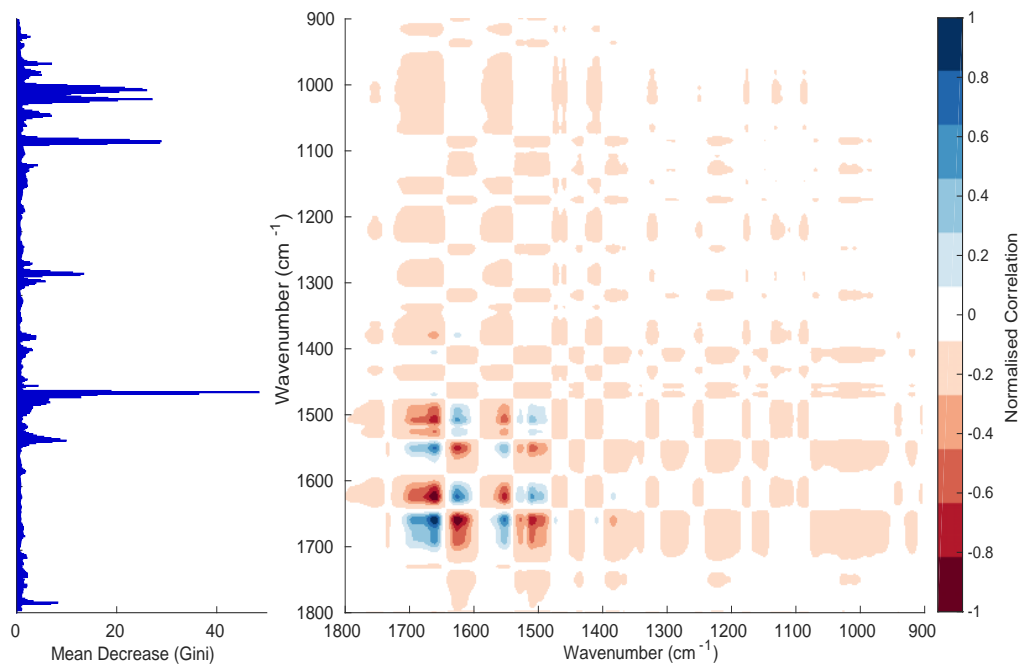


Fig. S6 Gini Importance Chart – 900–1800 cm^{-1} First Derivative with Synchronous 2D plot.

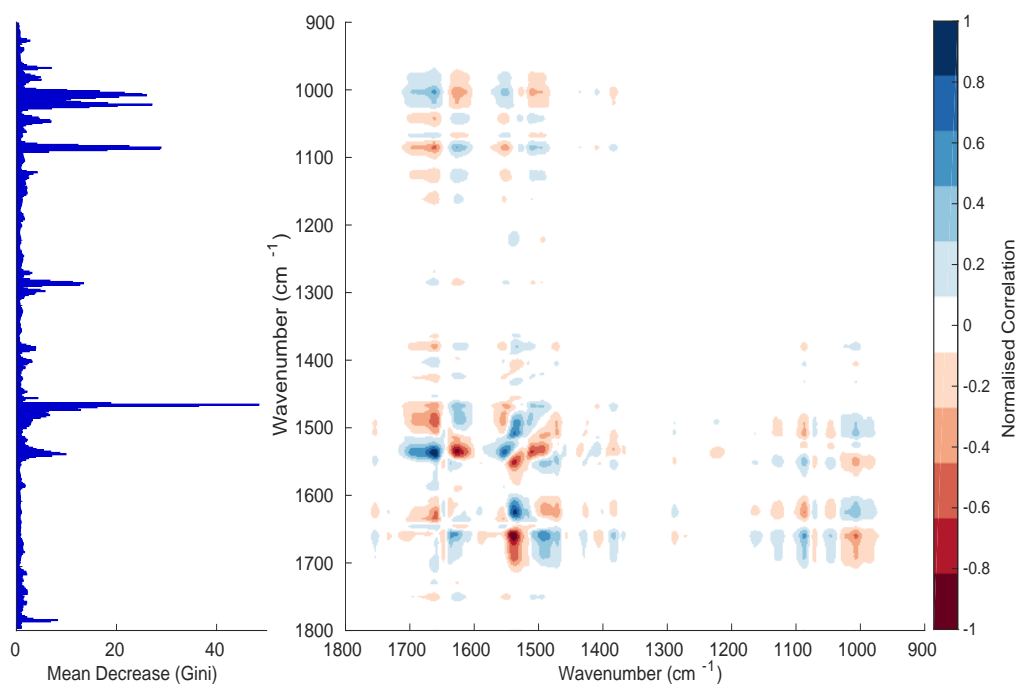


Fig. S7 Gini Importance Chart – 900–1800 cm^{-1} First Derivative with Asynchronous 2D plot.

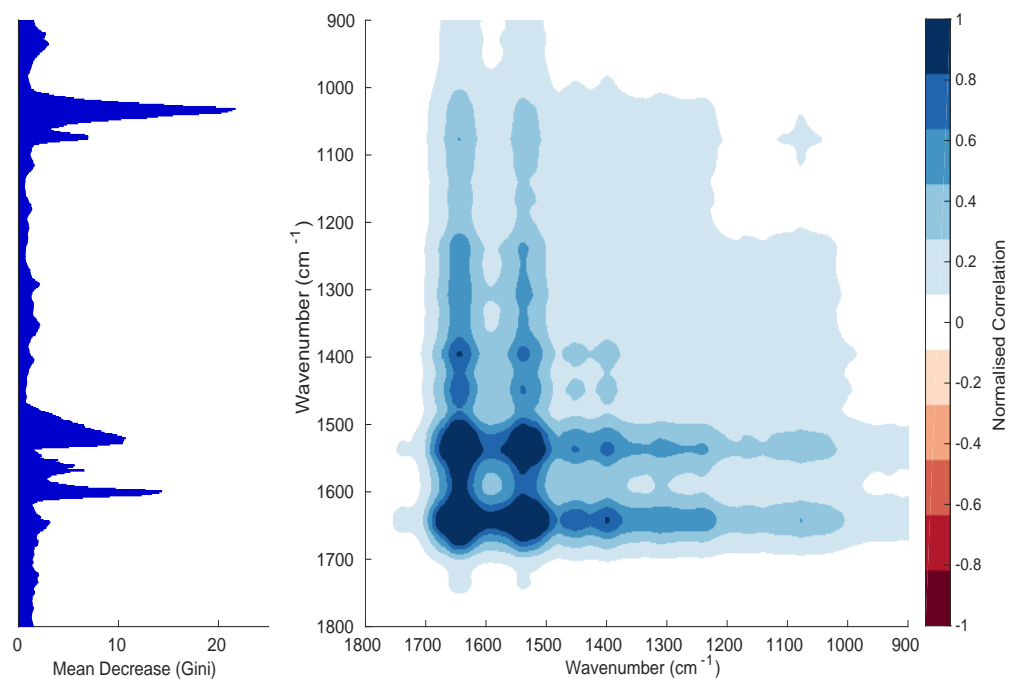


Fig. S8 Gini Importance Chart – 900–1800 cm^{-1} Normalised Spectra with Synchronous 2D plot.

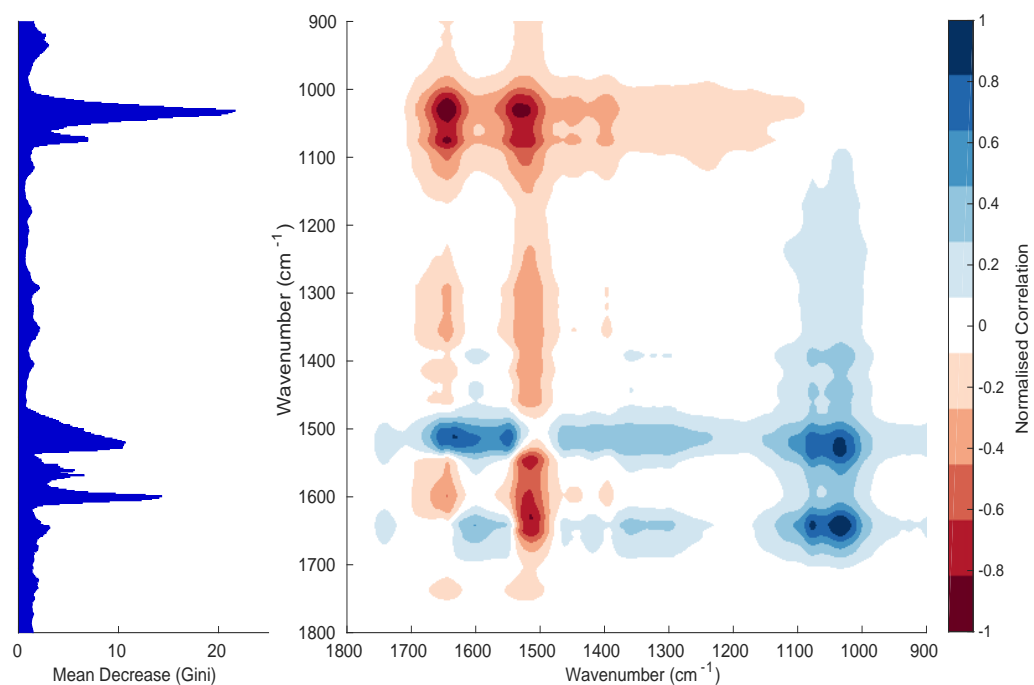


Fig. S9 Gini Importance Chart – 900–1800 cm^{-1} Normalised Spectra with Asynchronous 2D plot.

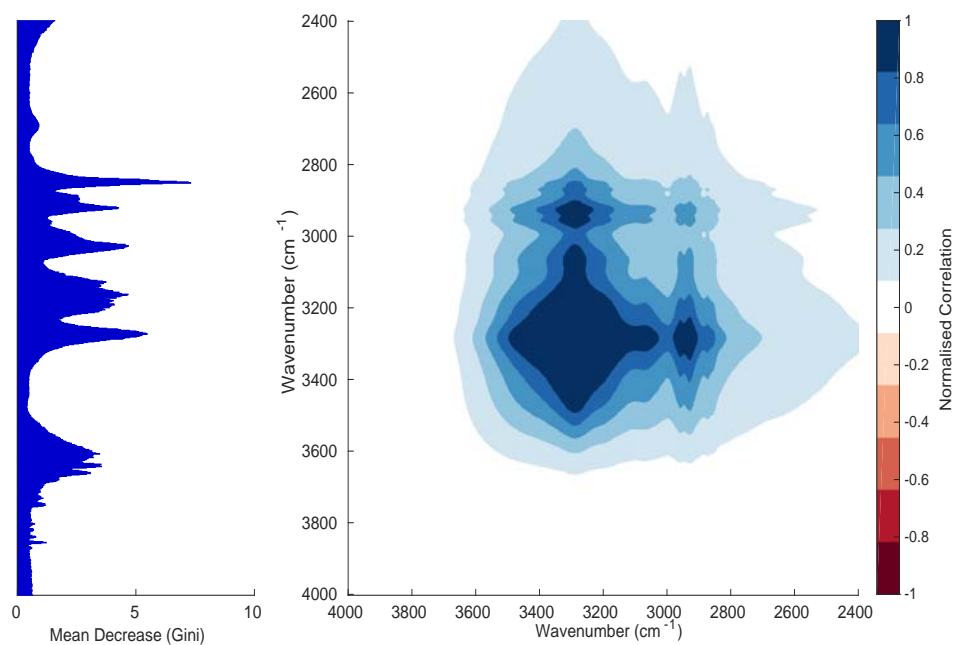


Fig. S10 Gini Importance Chart – 2400–4000 cm⁻¹ Normalised Spectra with Synchronous 2D plot.

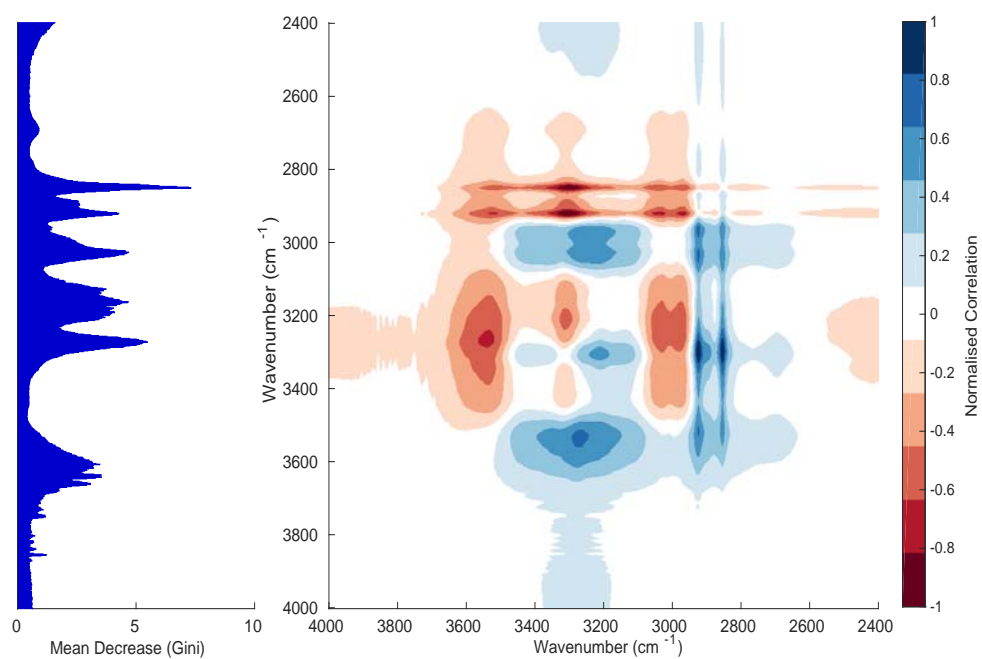


Fig. S11 Gini Importance Chart – 2400–4000 cm⁻¹ Normalised Spectra with Asynchronous 2D plot.

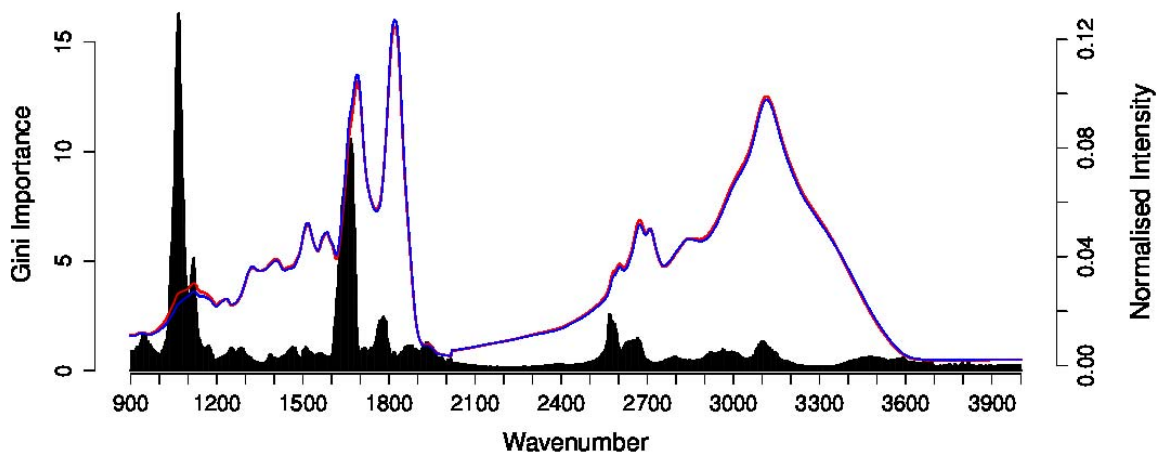


Fig. S12 Gini Importance Chart – 900–4000 cm^{-1} with average cancer (red) and non-cancer (blue) normalised spectra.

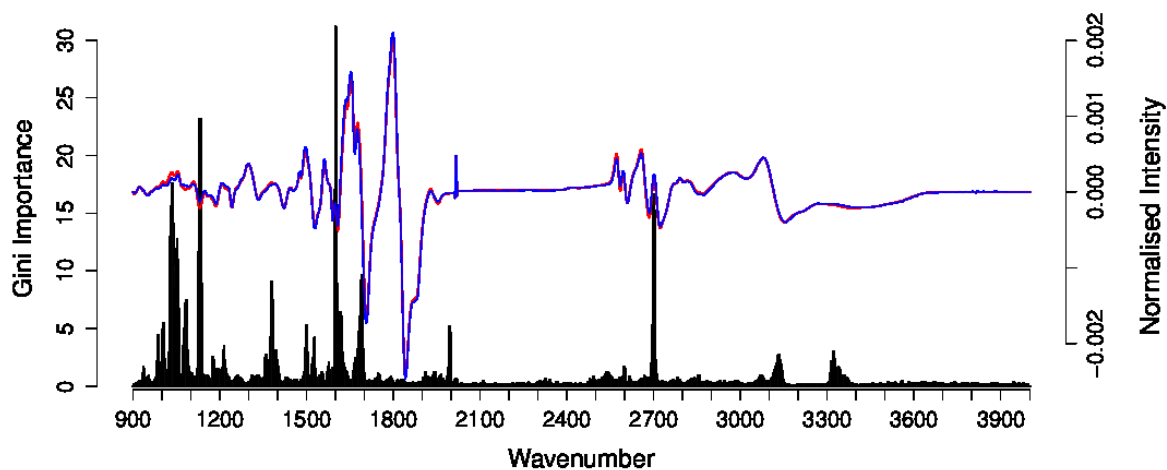


Fig. S13 Gini Importance Chart – 900–4000 cm^{-1} with average cancer (red) and non-cancer (blue) first derivative spectra.

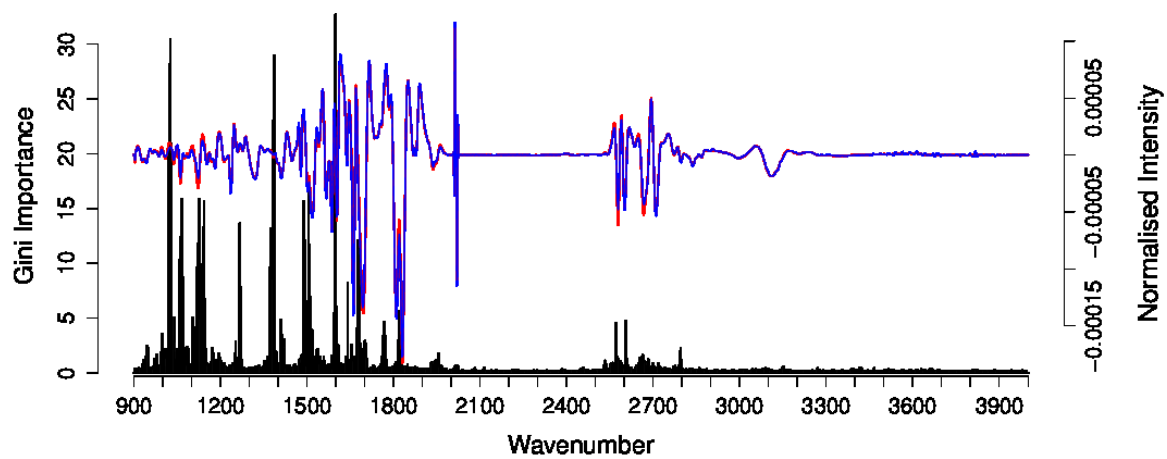


Fig. S14 Gini Importance Chart – 900–4000 cm^{-1} with average cancer (red) and non-cancer (blue) second derivative spectra.