

## Analysis Report

Generated by vic74qy@WL2YR95M3 on 06-Jan-2023 13:56:54

### Model

Principal Components Analysis Model

Developed 06-Jan-2023 13:51:26.690

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X-block: AllHarvestsUnaveragedBrukerNIR22MM.xlsx 2202 by 949

(vic74qy@WL2YR95M3@20221104T154753.53527777 m:20221104154754.067)

Included: [ 1-2202 ] [ 1-949 ]

Included (in axis units): [ n/a ] [ 11536-3952 ]

Preprocessing: Detrend, SNV, 2nd Derivative (order: 2, window: 5 pt, tails: weighted), Mean Center

Num. PCs: 5

Algorithm: SVD

Cross validation: venetian blinds w/ 10 splits and blind thickness = 1

RMSEC: 0.000672104

RMSECV: 0.000725013

### SSQ Table

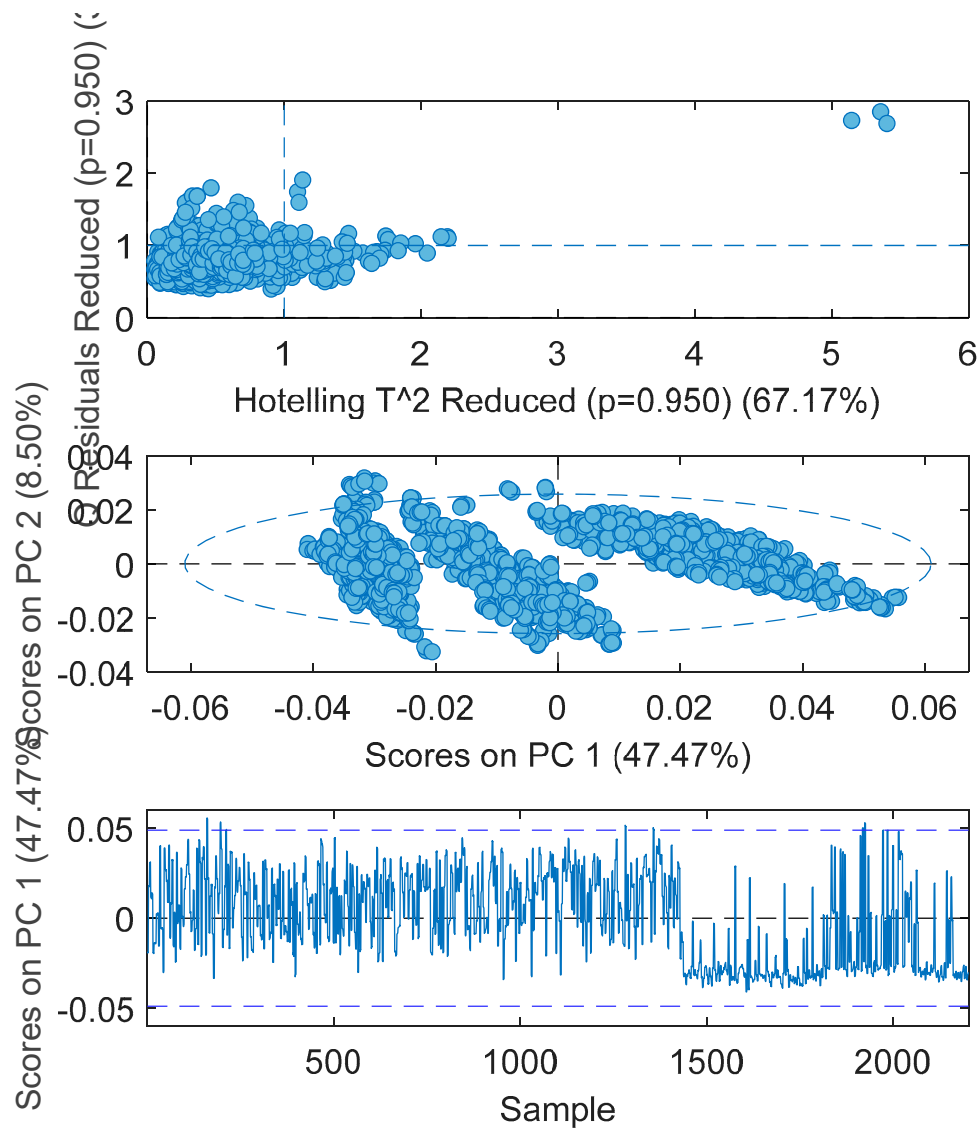
Percent Variance Captured by PCA Model

Principal Component Number	Eigenvalue of Cov(X)	% Variance Captured This PC	% Variance Captured Total
1	6.20e-04	47.47	47.47
2	1.11e-04	8.50	55.97
3	7.16e-05	5.48	61.45
4	5.28e-05	4.04	65.48
5	2.20e-05	1.69	67.17

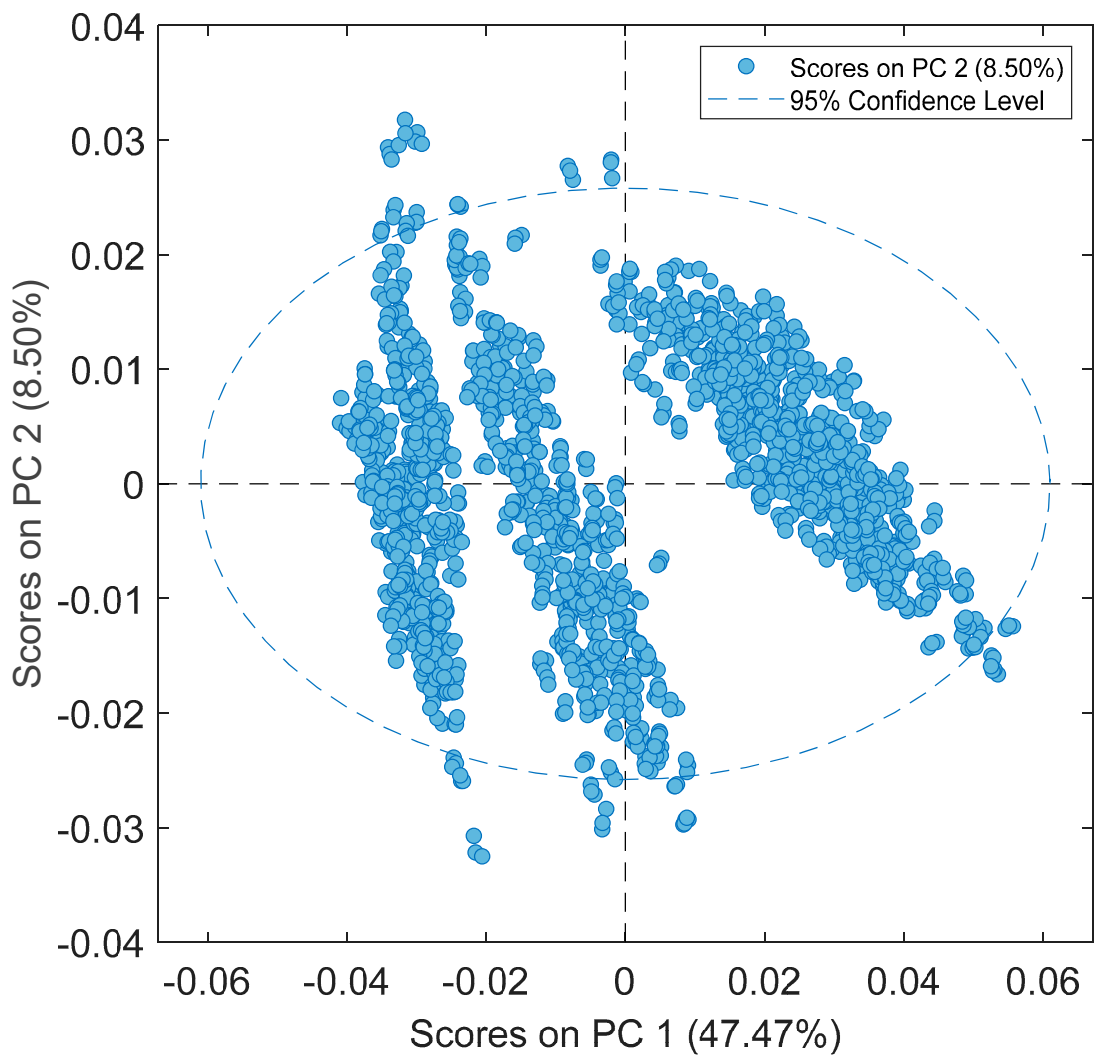
Figure S2: Score plot of two principal components of the entire cannabis sample set (unaveraged data,  $n = 2202$ ) using the Bruker MPA II FT-NIR spectrometer ( $9000\text{ cm}^{-1}$  to  $4000\text{ cm}^{-1}$  range).

Figures associated with the analysis:

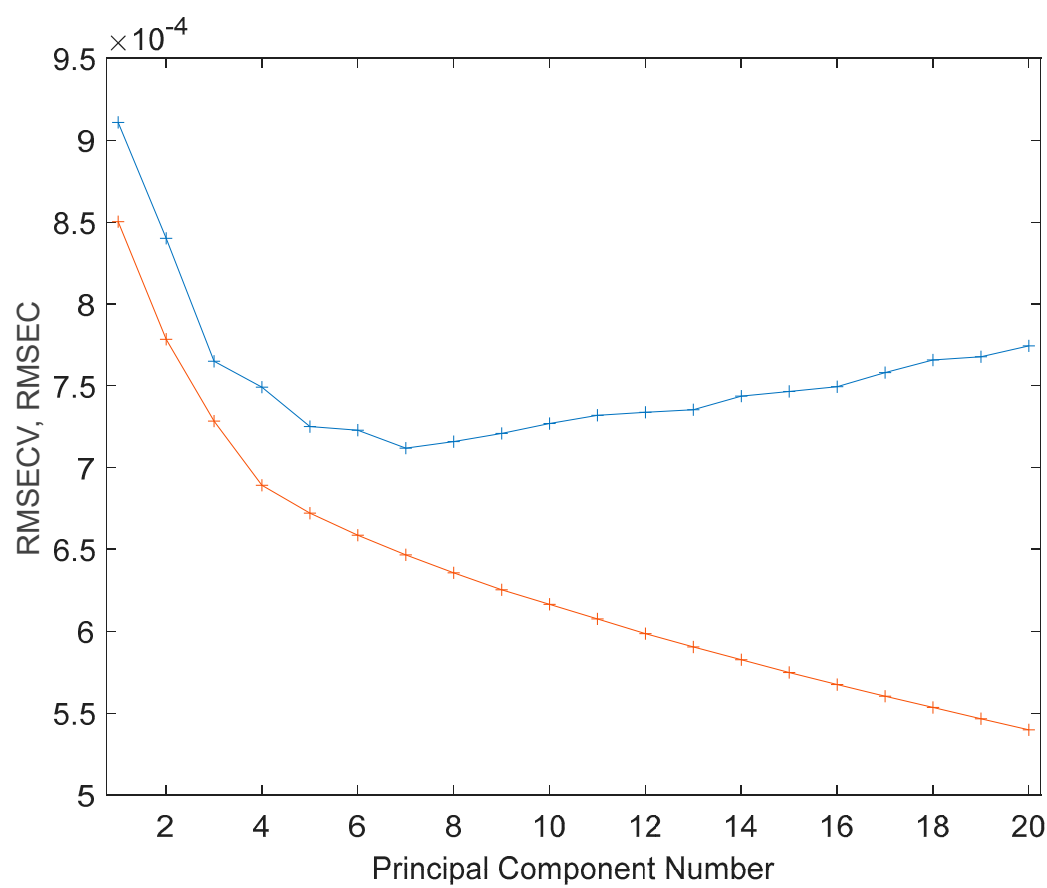
Samples/Scores - PCA 5 PCs - AllHarvestsUnaveragedBrukerNIR22MM.xlsx



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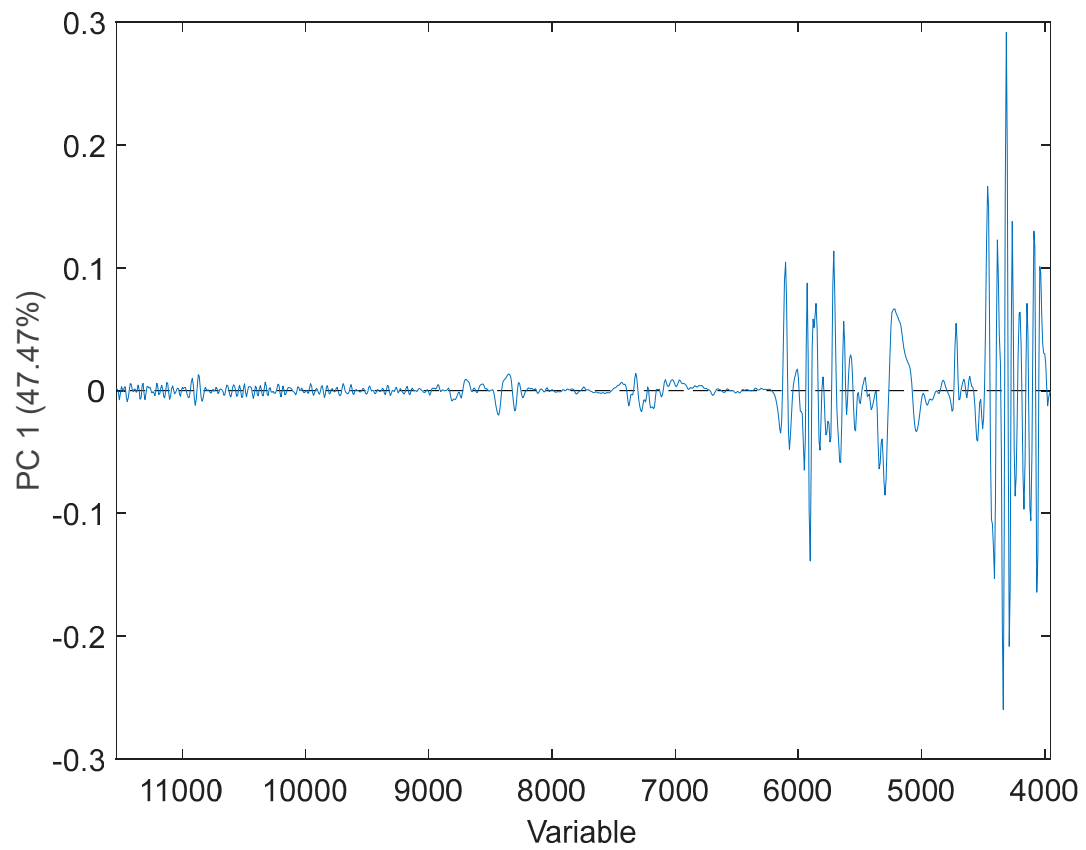


Model Statistics - PCA 5 PCs - AllHarvestsUnaveragedBrukerNIR22MM.xlsx



Variables/Loadings - PCA 5 PCs - AllHarvestsUnaveragedBrukerNIR22MM.xlsx

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Biplot - PCA 5 PCs - AllHarvestsUnaveragedBrukerNIR22MM.xlsx

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