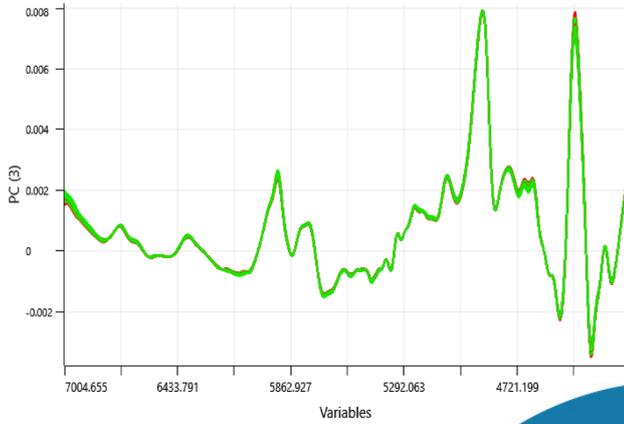# *VEKTOR DIREKTOR*™
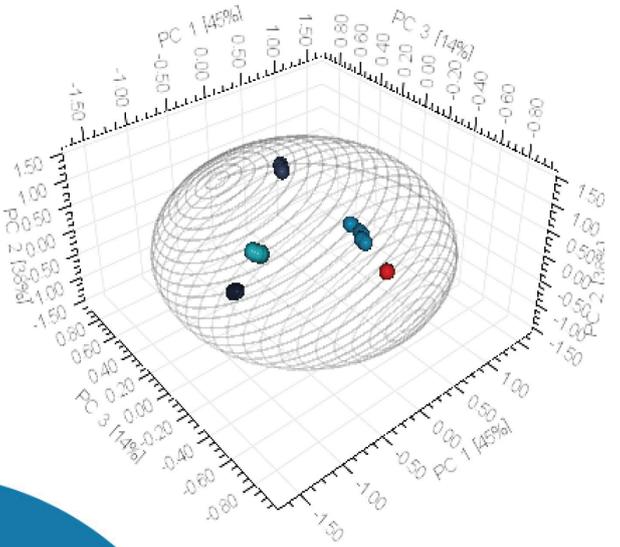
Multivariate Analysis with Direction and Purpose

Data Visualisation

Exploratory Data Analysis

VEKTOR DIREKTOR™

Inferential Statistics

Multivariate Regression

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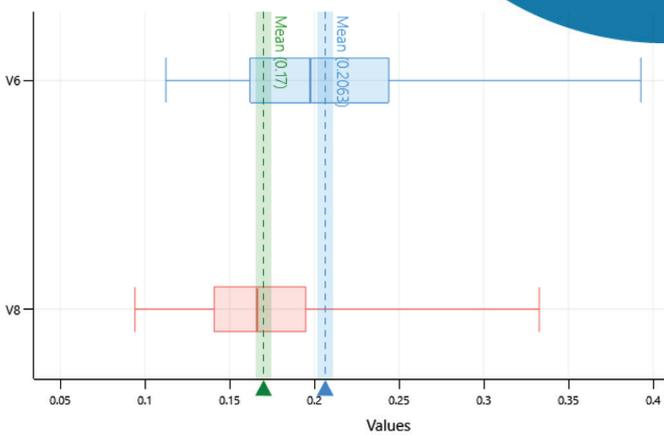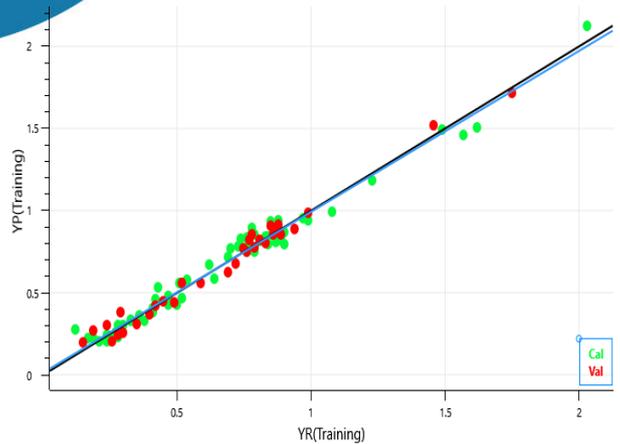*Multivariate Analysis with Direction and Purpose*

Version 1.1
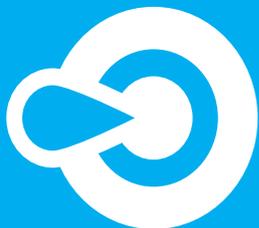
System Requirements and Features

Supported Operating Systems	Windows 10 and 11 (32 and 64 bit operating systems)
Memory (RAM)	8GB Minimum
Processor Specification	Intel i7 minimum (preferred)
Hard Disk Space	1 GB Minimum
Graphics Card	DirectX 9 or later
Data Imports	• Spreadsheet and Text (.xlsx, .txt. csv) • Universal Formats (GRAMS (.spc), JCAMP (.jdx). NetCDF .(cdf)). • Instrument Proprietary (VIAVI (.sam), OPUS (.01), Brimrose (.bff3), JEOL (.jdf). • Instrument Drivers (VIAVI MicroNIR and Hamamatsu)
Plots	• Line • Scatter (2D and 3D) • Bubble • Histogram • Column
Preprocessing Methods	• Smoothing • Baseline • Normalisation • Scatter Correction (Multiplicative Scatter and Extended Multiplicative Scatter Correction (MSC/EMSC) and Standard Normal Variate (SNV). • Derivatives
Analysis Methods	• Univariate Methods (ANOVA, Normality, F- and t-Tests) • Principal Component Analysis (PCA) • Multiple Linear Regression (MLR) • Partial Least Squares Regression (PLSR) • Soft Independent Modelling of Class Analogy (SIMCA) • Partial Least Squares Discriminant Analysis (PLS-DA)

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