

Comparison of Origin and OriginPro

OriginPro provides all of the features of Origin, plus additional analysis tools and capabilities. The following tables provide comparisons between Origin and OriginPro in such areas as curve fitting, peak analysis, statistics, signal analysis, and image handling.*

Curve Fitting		Origin	Originpro
	Linear Regression	✓	✓
	Linear Fit with X Error		✓
	Confidence Ellipse for Linear Fit	✓	✓
LINEAR AND POLYNOMIAL	Polynomial Regression	✓	✓
FITTING	Multiple Linear Regression	✓	✓
	Partial Leverage Plots in Multiple Regression	✓	✓
	Residual Analysis	✓	✓
	Fitting Multiple Datasets	✓	✓
	Built-in Fitting Function and User- defined Fitting Function	√	✓
	Parameter Initialization and Derived Parameter Definition	√	✓
	Bounds and Constraints	✓	✓
	Weighted Fitting	✓	✓
	Fitting with Y Error	✓	✓
	Fitting with X and Y Errors (Orthogonal Regression)		✓
NONLINEAR FITTING	Global Fit with Parameter Sharing	√	✓
	Global Fit with Parameter Sharing among Different Functions		✓
	Fitting Replica Data	✓	✓
	Residual Analysis	✓	✓
	Fitting with Implicit Functions (Orthogonal Distance Regression)		✓
	Fitting Comparison		✓
	Fit and Rank Multiple Models		✓
	Surface Fitting		✓

Mathematics		Origin	OriginPro
SIMPLE MATHEMATICS OPERATIONS	Simple Mathematics Operations on or Between Datasets	✓	✓
	Set Cell, Column or Matrix Values by Using Mathematics Operations	✓	√
	Normalization	√	√
	1D Interpolation and Extrapolation	√	✓
	Interpolation and Extrapolation of Y From X	√	✓
INTERPOLATION AND	Trace Interpolation on XY Data	√	✓
EXTRAPOLATION	Trace Interpolation on XYZ Data	✓	✓
	2D Interpolation and Extrapolation	✓	✓
	3D Interpolation	✓	✓
	Numerical Differentiation	√	✓
DIFFERENTIATION AND INTEGRATION	1D Numerical Integration	√	√
	2D Volume Integration		√
AREA CALCULATION	Polygon Area	√	✓
	XYZ Surface Area		✓
	Matrix Surface Area		✓
ОТНЕРС	Average Multiple Curves	√	✓
OTHERS	Inverse of a Matrix	√	√

*To view the complete list of comparison tables go to: originlab.com/ProductComparison



Statistics		Origin	OriginPro
	Basic Descriptive Statistics	√	√
	1D and 2D Frequency Counts	✓	✓
	Correlation Coefficient		✓
	Partial Correlation Coefficient		✓
	Cross Tabulation		✓
	Discrete Frequency	√	✓
DESCRIPTIVE	Distribution Fit		✓
STATISTICS	Normality Test (Shaprio-Wilk, Lilliefors, Kolmogorov-Smirnov, Anderson-Darling, D'Agostino-K Squared, Chen-Shapro)	✓	√
	Statistics Charts: Histogram, Box Chart, Scatter Matrix, QC Chart, Probability Plot, Q-Q Plot, and Pareto Chart	✓	✓
	Grubbs Test and Q-test to Detect Outliers	✓	✓
	One Sample and Two-Sample t-Test, Pair-Sample t-Test	✓	✓
HYPOTHESIS TESTING	Two Sample and Paired-Sample t-Test on Rows		✓
TESTING	One Sample and Two Sample Hypothesis Tests for Variance		✓
	One and Two-Proportion Test		✓
	One Way ANOVA, Two Way ANOVA	✓	✓
	Three Way ANOVA		✓
ANALYSIS OF VARIANCE	ANOVA: Mean Comparison (Tukey, Bonferroni , Scheffe, Dunn-Sidak, Fisher LSD, Holm-Bonferroni, Holm-Sidak)	✓	✓
	One Way and Two Way Repeated Measure ANOVA		√
	Sign Test		✓
	Wilcoxon Test for One Sample and Paired Sample		✓
NONPARA-	Two Sample Kolmogorov-Smirnov Test		✓
METRIC TESTS	Mann-Whitney Test		✓
	Kruskal-Wallis ANOVA		✓
	Mood's Median Test		✓
	Friedman ANOVA		✓
	Principal Component Analysis		✓
AATITEIVA DI ATE	Cluster Analysis		✓
MULTIVARIATE Analysis	Discrimininant Analysis		✓
71117121313	Canonical Discriminant Analysis		✓
	Partial Least Squares		✓
SURVIVAL ANALYSIS	Kaplan-Meier Estimator		✓
	Test Equality of Survival Functions (Log-Rank, Breslow and Tarone-Ware)		✓
	Cox Proportional Hazard Model		✓
	Weibull Fit		✓
POWER AND Sample Size	One, Two and Paired-Sample t-Test, One Way ANOVA, One and Two-Proportion Test, One and Two -Variance Test		✓
ROC CURVE	ROC Curve		/

Peak Analysis		Origin	OriginPro
	Baseline Detection	✓	✓
	Baseline Subtraction	✓	✓
	Peak Finding	✓	✓
	Peak Integration	✓	✓
PEAK ANALYSIS	Peak Fitting		✓
	Fit Baseline with Peaks		✓
	Fit Individual Peaks with Different Fitting Functions		✓
	Batch Peak Analysis		✓
Signal Analysis		Origin	OriginPro
	Smoothing using Savitzky- Golay Filter, Adjacent Averaging, FFT Filter, and Percentile Filter	✓	✓
SMOOTHING AND FILTERING	FFT Filters: Low Pass, Low Pass Parabolic, High Pass, Band Pass, Band Block, and Threshold	✓	✓
	IIR Filter Design		✓
	FFT with Basic Options	✓	✓
FAST FOURIER TRANSFORM (FFT)	2D FFT and 2D FFT Basic Filtering		✓
(111)	Short-Time Fourier Transform (STFT)		✓
	Discrete Wavelet Transform (DWT) and Inverse Discrete Wavelet Transform (IDWT)		✓
	Wavelet Smoothing		✓
WAVELET Analysis	Wavelet Denoising		✓
	Continuous Wavelet Transform (CWT)		✓
	Evaluation of Continuous Wavelet Function		✓
	Convolution and Deconvolution	✓	✓
OTHERS	Coherence		✓
	1D Correlation	✓	✓
	2D Correlation		✓
	Hilbert Transform		✓
	Signal Envelope		✓
	Signal Decimation		✓
	Rise and Fall Time Analysis		✓

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Data Manipulatio	n	Origin	OriginPro
	Sort Worksheet or Columns	✓	✓
REORGANIZA-	Stack and Unstack Columns	✓	✓
TION	Pivot Table	✓	✓
	Split and Append Worksheet	✓	✓
	Converting XYZ Data to a Matrix	✓	✓
TRANSFORMA- TION	Transpose Worksheet or Matrix	✓	✓

Shrink or Expand a Matrix

Reduce Duplicate X Data

Reduce Data by Skipping Every N Points

Reduce Data to Evenly Spaced X

Reduce XY Data by Group

Find and Replace Numeric and Text Values

Translate Curve Vertically or Horizontally

Data Filter for Worksheets Select or Hide Columns in Worksheet by Column Label

Surface Integration Gadget

Global Vertical Cursor Gadget Across Graphs

Sigmoidal Fit Gadget

Quick Peaks Gadget

Intersect Gadget

Cluster Gadget

Differentiate and Interpolate Gadget

Quick Fit Gadget

Rise Time Gadget

Integrate, FFT and Statistics Gadget

Origin

OriginPro

Worksheet Query

EXTRACTION

AND **REDUCTION**

OTHERS

Gadget

GADGETS

Quantile Regression	APPS		Origin	OriginPro
Speedy Fit Global Fit with Multiple Functions 3D Smoother Fit Convolution Rank Models Constrained Multiple Regression Polynomial Surface Fit Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Volummetry Find a Fitting Function 2D Smoother Simple Fit Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius V Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple Fit Time Frequency Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Quantile Regression		✓
Global Fit with Multiple Functions 3D Smoother Fit Convolution Rank Models Constrained Multiple Regression Polynomial Surface Fit Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Function 2D Smoother Simple Fit Compare Unear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius V MATHEMATICS Inagent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Fit ODE		✓
Tunctions 3D Smoother Fit Convolution Rank Models Constrained Multiple Regression Polynomial Surface Fit Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtation 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Speedy Fit		✓
Fit Convolution Rank Models Constrained Multiple Regression Polynomial Surface Fit Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Cyclic Voltammetry Find a Fitting Function 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius MATHEMATICS Align Peak Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Jynamic Time Warping Simple pcLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Global Fit with Multiple Functions		✓
Rank Models Constrained Multiple Regression Polynomial Surface Fit Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtation 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAWP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		3D Smoother		✓
CURVE FITTING CURVE FITTING CURVE FITTING CURVE FITTING CURVE FITTING CURVE FITTING Composite Sequential Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Function 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Targent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Fit Convolution		✓
CURVE FITTING Polynomial Surface Fit Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtction 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V PETEX SIGNAL PROCESSING Piecewise Fit V V V Align Peak V V Signal Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V V V V Tame-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Rank Models		✓
CURVE FITTING Sequential Fit Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtction 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V Concave Julion Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V Concave Self-Deconvolution V Concave Self-Deconvolution FFT Examiner		Constrained Multiple Regression		✓
CURVE FITTING Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtation 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Fquations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Simple pCLAMP Analyzer Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V Compare V FFT Examiner		Polynomial Surface Fit		✓
Piecewise Fit Enzyme Kinetics General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Function 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V Composite Spectrum Regression V Composite Spectrum Regression V V Align Peaks V V Compare Linear Fit Parameters and Datasets V V Compare Linear Fit V Peak Analysis Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner	CURVE FITTING	Sequential Fit		✓
General Linear Regression Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtction 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V Composite Spectrum Regression V V V A V A SIGNAL PROCESSING Fourier Self-Deconvolution V V Composite Spectrum Regression V V V V V V Compare Linear Fit V V V V V V V Compare Linear Fit V V V V V V V Compare Linear Fit V V V Composite Spectrum Regression V V V V Composite Spectrum Regression V V V V Compare Linear Regression V V V Composite Spectrum Regression V V V Composite Self-Deconvolution V V Time-Frequency Analysis Fourier Self-Deconvolution V V V V Composite Spectrum Regression V V V V Composite Spectrum Regression V V V V Composite Spectrum Regression V V V Composite Spectrum Regression V V V Composite Spectrum Regression V V Composite Spectrum Regression V V V Composite Spectrum Regression V V V Composite Spectrum Regression V	CURVE HITTING	Piecewise Fit		✓
Composite Spectrum Regression Cyclic Voltammetry Find a Fitting Funtation 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V V Concavel-Unit Component Analysis Component Analysis Component Analysis Component Self-Deconvolution FFT Examiner		Enzyme Kinetics		✓
Cyclic Voltammetry Find a Fitting Funtction 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Signal Dynamic Time Warping Simple pCLAWP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution V V V V V V Signal Fourier Self-Deconvolution V V V V V V V V V V V V V		General Linear Regression		✓
Find a Fitting Funtction 2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Signal PROCESSING Fourier Self-Deconvolution V V V V V V V V V V V V V		Composite Spectrum Regression		✓
2D Smoother Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Fourier Self-Deconvolution V Compare Datasets V V Compare Datasets V V Compare Linear Fit V V Compare Linear Fit V V Compare Linear Fit V V V Level Crossing V Signale pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Cyclic Voltammetry		✓
Simple Fit Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Fourier Self-Deconvolution FFT Examiner		Find a Fitting Funtction	✓	✓
Compare Datasets Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		2D Smoother	✓	✓
Compare Linear Fit Parameters and Datasets Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Targent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Simple Fit	✓	✓
PEAK ANALYSIS Gel Molecular Weight Analyzer Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Compare Datasets	✓	✓
PEAK ANALYSIS Global Peak Fit Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Compare Linear Fit Parameters and Datasets	✓	✓
PEAK ANALYSIS Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Gel Molecular Weight Analyzer		✓
Peak Deconvolution Align Peaks Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Signal PROCESSING Fourier Self-Deconvolution FFT Examiner	DEAL AMAINCIC	Global Peak Fit		✓
Equations Solver Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner	PEAK ANALYSIS	Peak Deconvolution		✓
Concave Hull Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Align Peaks	✓	✓
Curvature Radius Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Equations Solver		✓
MATHEMATICS Tangent Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Concave Hull		✓
Tafel Extrapolation Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Curvature Radius	✓	✓
Distance Between Two Points Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner	MATHEMATICS	Tangent	✓	✓
Level Crossing Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Tafel Extrapolation	✓	✓
Independent Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Distance Between Two Points	✓	✓
Component Analysis Dynamic Time Warping Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Level Crossing	✓	✓
SIGNAL PROCESSING Simple pCLAMP Analyzer Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Independent Component Analysis		✓
Time-Frequency Analysis Fourier Self-Deconvolution FFT Examiner		Dynamic Time Warping		✓
PROCESSING Time-Frequency Analysis Fourier Self-Deconvolution ✓ FFT Examiner		Simple pCLAMP Analyzer		✓
FFT Examiner ✓		Time-Frequency Analysis		✓
		Fourier Self-Deconvolution		✓
White Noise ✓ ✓		FFT Examiner		√
		White Noise	✓	✓

Note: New Apps are released frequently. Please visit originlab.com/Apps for the most up-to-date list.



APPS (con't)		Origin	OriginPro
	2D Correlation Spectroscopy	, J	1
	Analysis		
	Change Point Analysis		V
	Design of Experiments		V
	Gaussian Mixture Models		V
	Factor Analysis		√
	Simple Time Series Analysis		V
STATISTICS	Logistic Regression		√
	Principal Component Analysis for Spectroscopy		✓
	Advanced Principal Component Analysis		✓
	Hotelling's T-squared Test		✓
	Post-hoc Analysis for Nonparametric Tests		✓
	Hurst Exponent	✓	✓
	Statistics Advisor	✓	✓
	Color Editor	✓	✓
	LaTeX	✓	✓
	Google Map Import	✓	✓
GRAPH CUSTOMIZATION	Maps Online	✓	✓
	Import Shapefile	✓	✓
	Colormap for Map Data	✓	✓
	Layer Stack Manager	✓	✓
	Means Plot		✓
	Manhattan Plot for GWAS (Genome-Wide Association Studies)		✓
	Image Stack Profile		✓
	Heat Map with Dendrogram		✓
	3D Wind Rose	✓	✓
	Isosurface	✓	✓
	Graph Maker	✓	✓
	Batch Plotting	✓	✓
GRAPHING	Voronoi-Diagram	✓	✓
	Chromaticity Diagram	✓	✓
	Paired Comparison Plot	✓	✓
	Kernel Density for Polar and Ternary	✓	✓
	3D Wall Profile	✓	✓
	Plot Sub MatrixView	✓	✓
	Log Histogram	✓	✓
	Zoomed Inset	✓	✓
	Treemap Plot	√	✓

APPS (con't)		Origin	OriginPro
	Hysteresis	✓	✓
	OPJ Packer	✓	✓
DATA PROCESSING	Toolbar Maker	✓	✓
	Data Slicer	✓	✓
	OPJ Searcher	✓	✓
	Import Chem Data		✓
	Import SAS XPT Files	✓	✓
	Graph Publisher	✓	✓
	Import LSM	✓	✓
IMPORT AND	Movie Creator	✓	✓
EXPORT	HDF5 Browser	✓	✓
	Import Tektronix WFM Files	✓	✓
	Agilent MS Reader	✓	✓
	Send Graphs to Powerpoint	✓	✓
	Send Graphs to Word	✓	✓

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