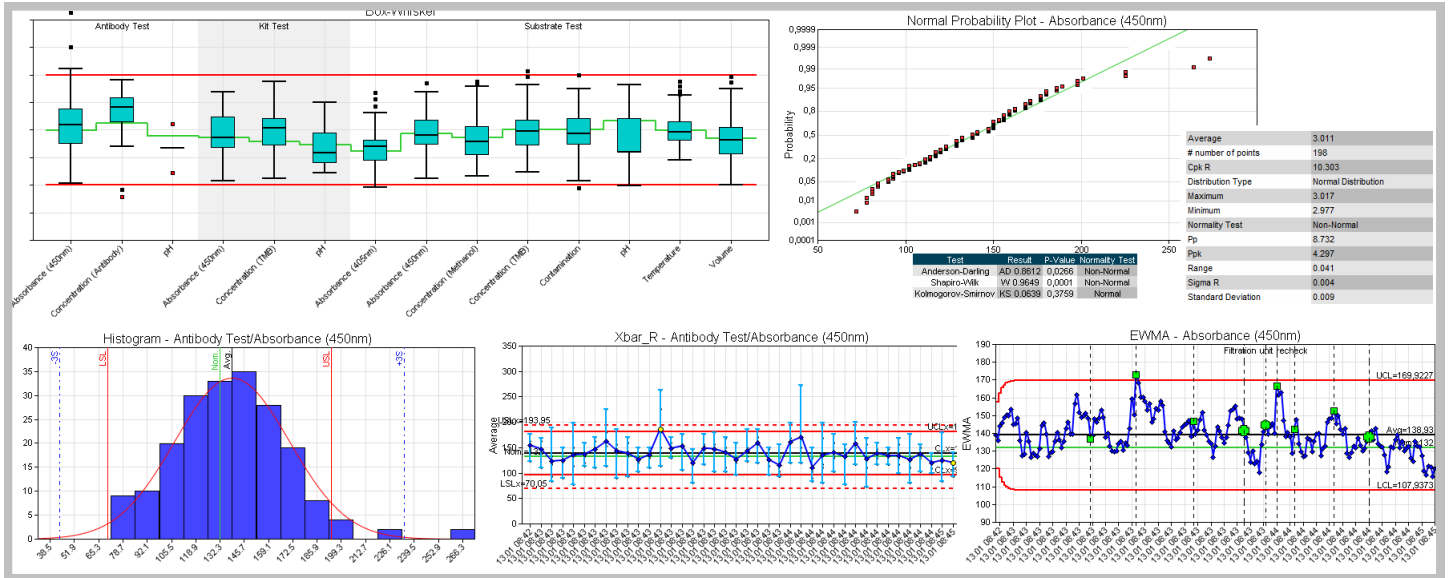


Predisys SPC Reports

Advanced SPC Reporting Platform using Microsoft SSRS



Use Statistical Process Control (SPC) methods and principles to turn data from almost any data source into a sophisticated, interactive report with Predisys SPC for Microsoft SSRS™.

The Predisys SPC software enables your business users to monitor and analyze hundreds of critical processes parameters in an intuitive way for rapid time to insight, and process quality improvements.

This powerful, user-friendly application can help you deliver key insights to the right decision maker, at the right time, and in the right format.

The reports may be saved as PDF files or published through systems such as Microsoft PowerBI Report Server, SSRS Report Server, SharePoint, Office 365.

The software provides the report developer with a full array of SPC control charts and statistical summaries for use in reports.

All charts and statistics are automatically calculated by the robust and proven Predisys SPC software, allowing the report developer to focus on data sources and report layout rather than complex SPC and statistical calculations.

The Predisys tools work within the Microsoft Visual Studio environment and are fully integrated with SQL Server tools and components.

Server Platform

- Microsoft Windows Server 2012 (or higher)
- Microsoft SQL Server 2012 R2 (or higher)

Development Tools

- Microsoft Visual Studio 2008 (or higher)

Control Charts

VARIABLE CONTROL CHARTS

- Xbar and Sigma chart
- Xbar and Range chart
- X/MR, I/MR charts
- MX/MR (Moving Average) chart
- Three Way Control chart
- Run chart
- Individuals chart
- Cusum chart
- Short Run chart
- EWMA chart
- Z chart
- W chart
- Capability Histogram chart
- Normal Probability Plot chart
- Autocorrelation chart
- Measurement Pareto chart
- Annotation Pareto

- SPC Box-Whisker chart
- Histogram Box-Whisker chart
- Levy-Jennings
- CV

ATTRIBUTE CONTROL CHARTS

- P, nP, U and C charts
- Yield, FPY, PPM charts
- Rolled throughput yield chart
- Pareto chart
- Histogram chart
- Production volume & throughput

OTHER CHART TYPES

- Scatter plot
- Lines chart - standard
- Lines chart - normalized)
- Box-Whisker chart
- SPC Box-Whisker



- Anova Chart
- Hi-low chart
- Bar chart
- Stacked bar chart
- Pie chart
- Meter chart

CHART CUSTOMIZATION

- Configurable charts (including scales, titles, font sizes, labels)
- Multiple charts (types) per page
- Chart Selector for alternate charts
- Subgroup Selector
- Drill-downs
- Tooltips

Statistical Analysis

CAPABILITY ANALYSIS

- Cp (R, S, mR)
- Cpk (R, S, mR)
- Pp
- Ppk
- Cpl (R, S, mR)
- Cpu (R, S, mR)
- Ppu
- Ppl
- Cpm
- Actual measurements above USL
- Actual measurements below LSL
- Measurements inside specs
- Measurements outside specs
- Estimated above USL
- Estimated below LSL
- Estimated PPM above USL
- Estimated PPM below LSL
- Average number of defects
- Defects percentages
- Defectives percentages
- Proportion of defects

OTHER STATISTICS

- 3S, 4S, 5S, +6 (R, S), +/- values
- Anderson Darling Statistics
- Average
- Coefficient of variation
- Correlation
- Critical value
- Degrees of freedom
- DPMO
- Grand Average
- K value
- Kurtosis
- Long term sigma level
- Short term sigma level
- Maximum and Minimum
- Median

- Nominal
- Normality Test (Anderson Darling)
- Number of subgroups
- Number of outliers
- Offset
- Range
- Short run statistics
- Skewness
- Stability Index
- Subgroup size
- Z

TRANSFORM & DISTRIBUTION

- Box-Cox, Johnson transformation
- Normalization
- Normal, Binary & Weibull, and Johnson, distributions
- Fourier transformation
- Advanced Distribution Test Tool

Additional Features

DATA BROWSING AND FILTERING

- Filter data on time, lot, device etc.
- Automatically generated meta-data for advanced filtering
- Outlier identification based on severity levels

AD HOC QUERIES

- Users can select parameters via the standard MS SSRS feature.

CONFIGURATION

- Intuitive Graphical User Interface for report configuration

CONTROL LIMIT CALCULATIONS

- Static limits
- Dynamically calculated limits
- Partially locked limits around nominal
- Short run limits

CORRELATION

- Correlation of process parameters with Scatter and Histogram Box-Whisker tools
- Correlation Table

MULTIVARIABLE CHARTING

- Box- Whisker
- Lines chart and normalized lines charts
- SPC Charting for multiple parameters in parallel

SPC RULES

- Western Electric rules
- Configurable custom rules
- Graphical indication of rule status

Platform

DATABASE CONNECTIVITY

Any data sources supported by Microsoft Reporting Services such as:

- Oracle, MySQL, MS SQL Server, MS Access, Windows Azure, ODBC, XML, SharePoint Lists

REPORT FORMATS

- Save or distribute final reports in a variety of formats, supported by Microsoft Reporting Services, such as: Word, Excel, PDF, HTML

SYSTEM LIMITS

- Size limited by available database storage size and processor speed

Options & Upgrades

- Can be upgraded to the Predisys SPC for SSRS Extended Edition, which provides additional advanced SPC and statistical features as well as support for larger datasets and improved performance.
- Can also be upgraded to Predisys Analytical Suite which provides:
 - Real Time Online SPC
 - Advanced SPC
 - Quality Data Analytics
 - MSA (Gage R&R)
 - Multivariate SPC
 - Manual, semi-automatic or automatic Data Collection
 - Data Management
 - SharePoint & DNN support

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ABOUT PREDISYS

Predisys specializes in developing Quality Control (incl. statistical process control), Quality Data Management and Manufacturing Business Intelligence software applications enabling manufacturers to make informed decisions that will improve quality, increase productivity, and positively impact the bottom line. Predisys is the technology leader in turning massive plant floor databases into actionable information, and in bridging Product Development & Engineering with Manufacturing. Predisys helps manufacturing enterprises to cut their time to market, improve yields and quality, shorten lead times and improve supplier quality insight.

For more information, please visit: www.predisys.com