SPECTRA.ELEMENTS

● Next Generation Software Suite for EDXRF and WDXRF

Innovation with Integrity

SPECTRA.ELEMENTS
Easy. Fast. Smart. Powerful.

S2 POLAR – polarized EDXRF

S2 PUMA Series 2 – high-performance EDXRF

S6 JAGUAR – 400 W benchtop WDXRF

Intuitive, Easy, and Fast

An intuitive, fast, and powerful user interface is the basis for the smooth operation of analytical equipment and, thus, adds a real benefit to your lab by saving time. At Bruker, we take this seriously. Getting started with SPECTRA.ELEMENTS requires only minimal training and running routine analysis is as easy as 1-2-3.

SPECTRA.ELEMENTS offers all its functionality through one main window. All features are organized on tabs, which can be accessed from anywhere in the software. Contemporary programming results in rapid data processing and an overall smooth user experience. Waiting and watching a spinning hourglass is a thing of the past!

Powerful, Smart, and Versatile

While ease-of-use and speed are important for routine measurements, analytical performance and versatility is a must. With our benchtop XRF spectrometers running on SPECTRA.ELEMENTS, you get both!
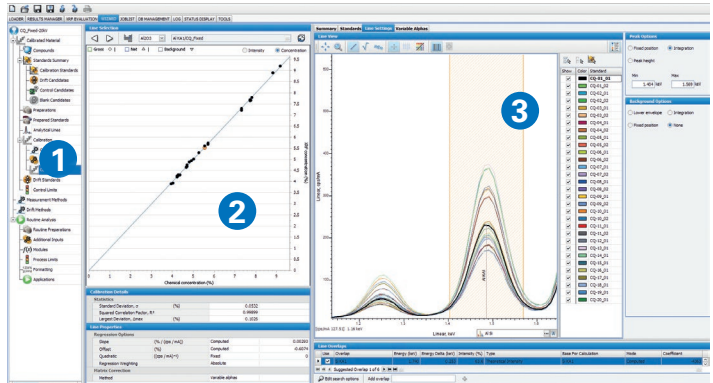
- Dedicated User Levels ensure smooth operation, compliant with your data management strategy
- A customizable Basic Mode allows you to hide features that are not required for routine analysis
- Blanks, duplicates, and quality checks can be set up for process and quality control
- Aut-O-Matrix: Determination of O or CH_2 by Compton peak optimization
- Loss-Eliminated Alphas: Routine measurements of ignited samples without dedicated input of loss-on-ignition (LOI) value
- Optional 21 CFR Part 11 compliance for product quality applications in FDA-regulated industries
- Optional IQ/OQ procedures are offered with the installation of the instrument
- LIMS-compatible: AXSCOM enables communication with process control units for full integration into automated environments
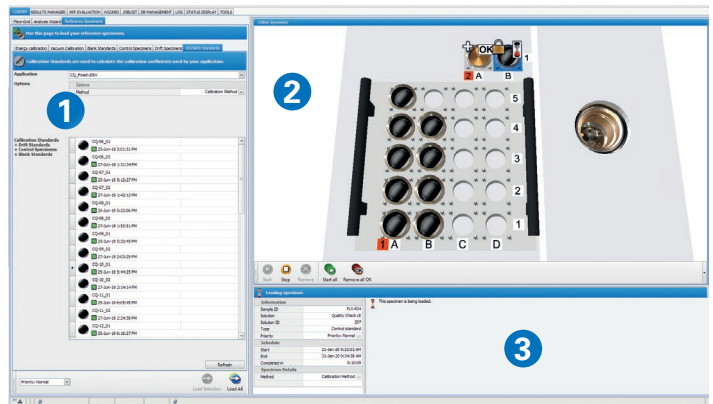
The WIZARD – Calibrate your system intuitively!

1 The tree structure guides you through the calibration process quickly and efficiently

2 Interactive optimization: On-the-fly calculation and display of calibration curve

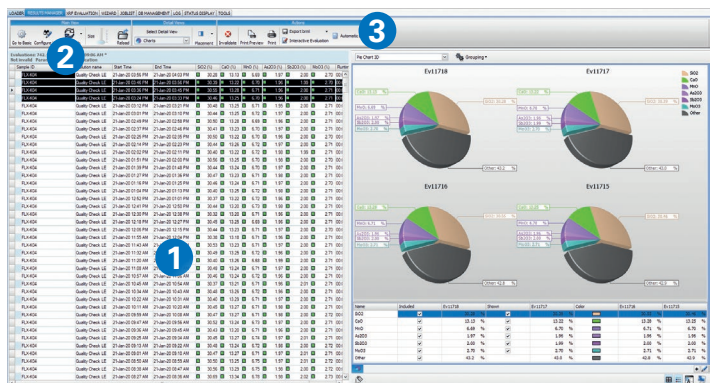**3** View spectra, zoom in and out, and select the best peak and background options

The LOADER – Start your measurements, easily and quickly!

1 Select the method and load the samples

2 Start and schedule your measurements – as easy as pie
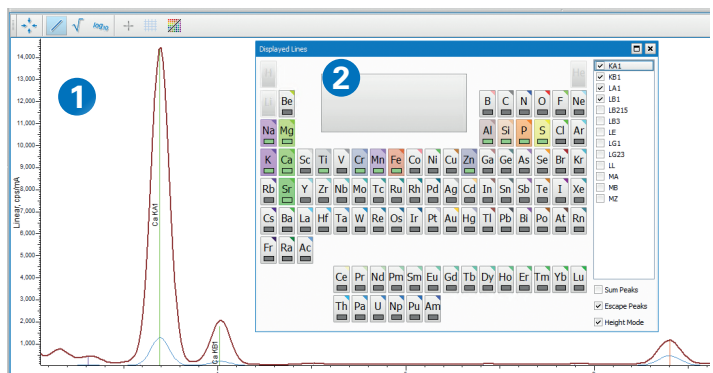
3 Quick-view results

The RESULTS MANAGER – Access your data quickly and get extended reporting

1 Query, display, analyze, print, and export your data

2 Use the Post-Processing tool to automatically export data

3 Use the Evaluation Plug-In for re-evaluation without re-measuring

Customize your Views

1 Define the views and reports you need to make your evaluation procedure faster and easier

2 Various graphical options are available – including global color-coding for the elements of interest

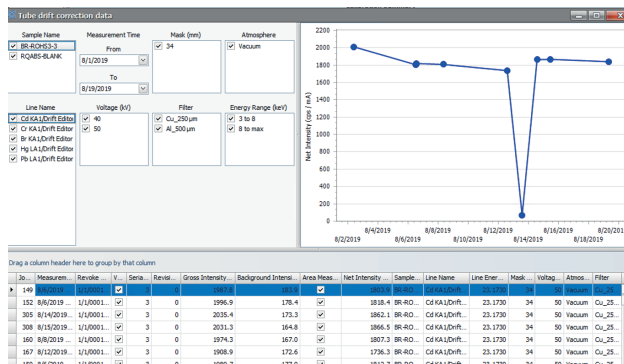## Analyze Everything With SMART-QUANT – Fully Integrated

SMART-QUANT is the standardless solution for elemental analysis of unknown samples and samples without available calibration standards in your lab. SMART-QUANT is available for the S2 PUMA (EDXRF) and the S6 JAGUAR (WDXRF).

- Sample types: liquids and solids
- Atmospheric modes: air, helium, vacuum
- Elemental range: F to Am (EDXRF), Na to U (WDXRF)
- Concentration range: ppm to 100

SMART-QUANT is set up to work in full Fundamental Parameter (FP) mode – this means no calibrations necessary. The FP algorithm is based on state-of-the-art modeling approaches, delivering accurate results with the push of a button.

SMART-QUANT delivers reliable results even with minimal user input: Load a sample, select the solution, press start!
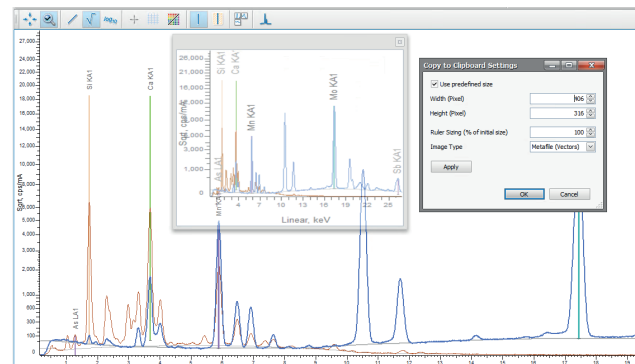
If desired, the Evaluation Plug-In allows you to optimize the algorithm and re-evaluate the measurements.

Your SPECTRA.ELEMENTS Advantages

- Tab-based organization of all functions guarantees easy overview and fastest access to all controls and information
- The intuitive user interface allows operators of all skills and backgrounds to easily and quickly get started
- 21 CFR Part 11-compliant, including Audit Trail and Electronic Signature
- The industry standard for calibrating XRF solutions: The Wizard comes with an ergonomic user interface and powerful calibration tools
- The highly customizable Results Manager features a full suite of functionality to display, organize, and arrange your data according to your requirements
- Powerful user account functionality allows for full control of operator access
- Seamless integration of options like the standardless software module SMART-QUANT
- Future-proof design ready for extensions and plug-ins

New drift monitoring tool

Enhanced copy to clipboard function

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