

S2 PICOFOX - Bruker

INTRODUCTION

The Lumetics LINK™ software platform scans network locations for new measurement data files, copies data directly to a centralized database, and provides a powerful user interface for rapid multi-measurement multi-technique data aggregation, visualization, analysis, and reporting. LINK employs a client/server-based architecture where the LINK server hardware is provided by the end user and resides on the end user's network. The LINK client is a portable web-based application that may be placed on any computer with network connectivity to the LINK server. For successful import, the LINK webserver requires read access to the folders where user data resides.

The S2 PICOFOX is the first portable benchtop spectrometer for fast quantitative and semi-quantitative multi-element microanalysis of liquids, suspensions, solids and contaminations using the principle of total reflection X-ray fluorescence spectroscopy (TXRF). Reaching detection limits in the ppb and ppm range the S2 PICOFOX is optimally suited for trace element analysis.

DETAILS

LINK requires the RTX data file to import PICOFOX results. Data files may need to be exported from the PICOFOX software. If a PDF instrument report is present, it will be imported to LINK and be available as a Measurement Series Attachment. LINK does not currently import raw curve data. All available instrument/analysis setting information and raw data calculations will be imported to LINK.

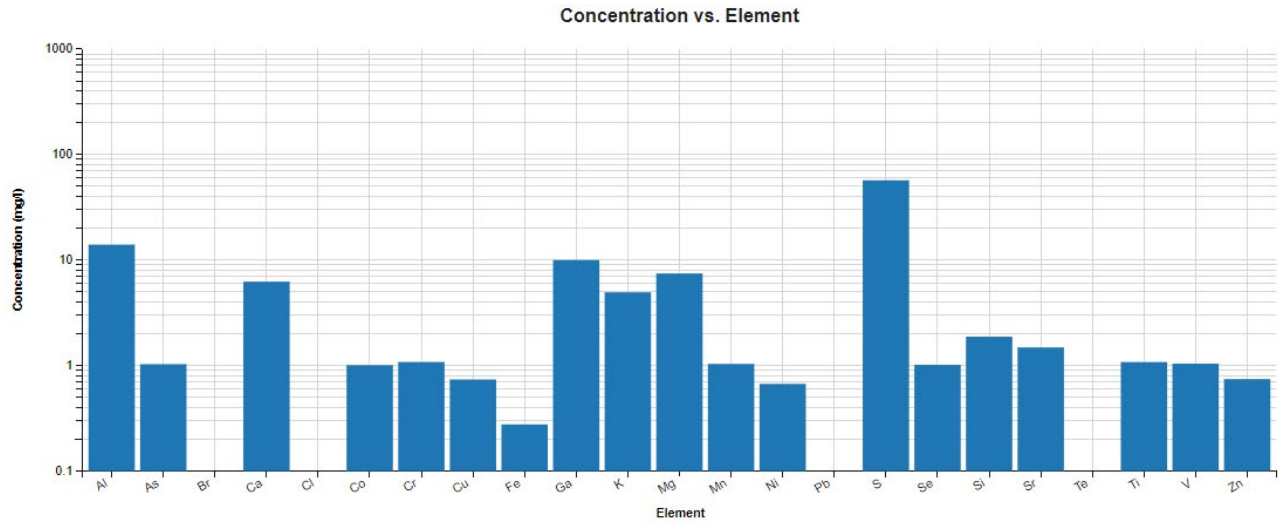
The S2 PICOFOX RTX data file example is as follows:

```
1 <?xml version="1.0" encoding="WINDOWS-1252" standalone="yes"?>
2 <TRTProject>
3 <RTHeader>
4 <ProjectHeader>
5 <Creator>Administrator</Creator>
6 <Comment/>
7 </ProjectHeader>
8 </RTHeader>
9 <ClassInstance Type="TRTProject" Name="RoentecProject">
10 <ChildClassInstances>
11 <ClassInstance Type="TRTBase" Name="Job">
12 <ChildClassInstances>
13 <ClassInstance Type="TJob" Name="JobParameter">
14 <Print>False</Print>
15 <Printer>FreePDF</Printer>
16 <PDF>False</PDF>
17 <PDFPath/>
18 </ClassInstance>
19 <ClassInstance Type="TJobLine" Name="Jobentry">
20 <SampleName>Gain Correction</SampleName>
21 <SpecName/>
22 <OrderNumber/>
23 <Disc/>
```

EXAMPLES

Included below is a sample dashboard from S2 PICOFOX measurement files:

1. Column Chart plotting measurement results for Concentration vs. Elements



2. Tabular Summary examples

Measurement Summary Table – Measurement Results

InstrumentName	Sample Name	Sigma (mg/l) - AVG	ZeroPeakFrequency - AVG	ZeroPeakPosition - AVG	PulseDensity - AVG	Mass (ng) - AVG	LLD (mg/l) - AVG	Current (µA) - AVG	Concentration (mg/l) - AVG
S2 PICOFOX	Lumetics 5	0.06	10000	97	153.44	2.09	0.05	600	1.14
S2 PICOFOX	Lumetics 6	0.06	10000	97	731.97	0.11	0.05	600	1.47
S2 PICOFOX	Lumetics 7	0.26	10000	97	3484.07	4.84	2.12	600	7.07

Measurement Summary Table – Instrument Settings

Sample Name	DetectorType	DetectorThickness - AVG	DetectorArea - AVG	Analysis Date	DetectionAngle - AVG	Serial Number - AVG	Version - AVG	Voltage (kV) - AVG	DeadTime - AVG	Element	Channels	Atom - AVG	Anode - AVG
Lumetics 5	XFLASH	0.45	30	Multiple (22 Valu...	45	421730812	0	50	0.06	Multiple (14 Valu...	Multiple (22 Valu...	27.76	42
Lumetics 6	XFLASH	0.45	30	Multiple (15 Valu...	45	421730812	0	50	0.21	Multiple (15 Valu...	Multiple (15 Valu...	27.87	42
Lumetics 7	XFLASH	0.45	30	Multiple (9 Values)	45	421730812	0	50	0.94	Multiple (16 Valu...	Multiple (9 Values)	28.58	42

S2 PICOFOX DASHBOARDS

LINK contains an extensive built-in dashboard library from LINK version 2.4.0.210401 and later. This function contains specific pre-created dashboards for all instruments and application groups.

CONTACT LUMETICS

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