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HIDEN ANALYTICAL

Hiden QGA

Quantitative Gas Analysis Software

Introduction

Hiden QGA quantitative gas analysis software is for quantitative analysis of gases and vapours, and is offered with Hiden's QIC series gas analysis systems.

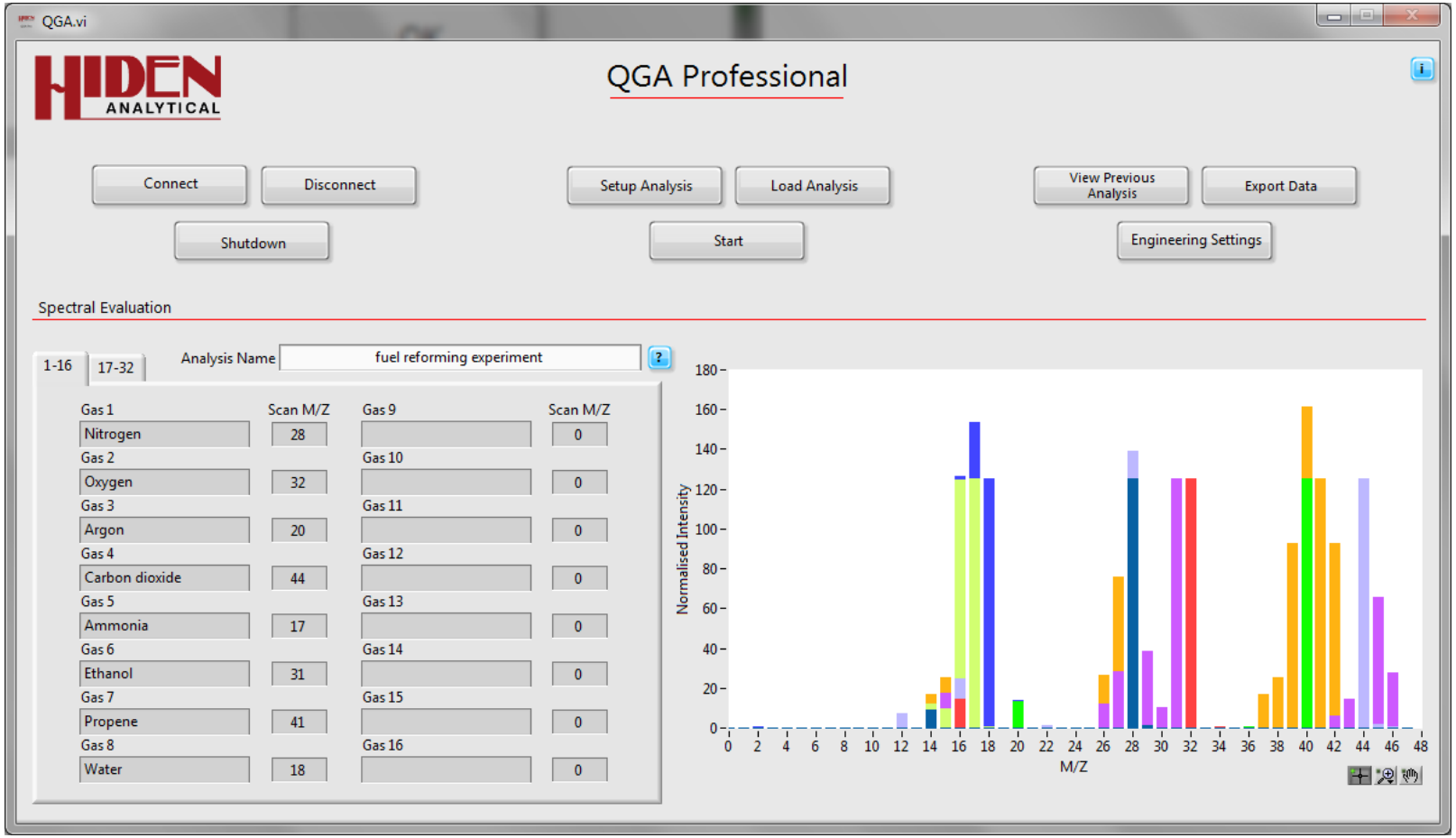
QGA software is designed for use by users with or without experience of mass spectrometry.

Set-up screens are intuitive and easy to navigate.
A calibration wizard guides the user through an automated procedure.

Raw data, corrected data and quantitative data is acquired, displayed (graphical and tabular formats) and saved in real time.

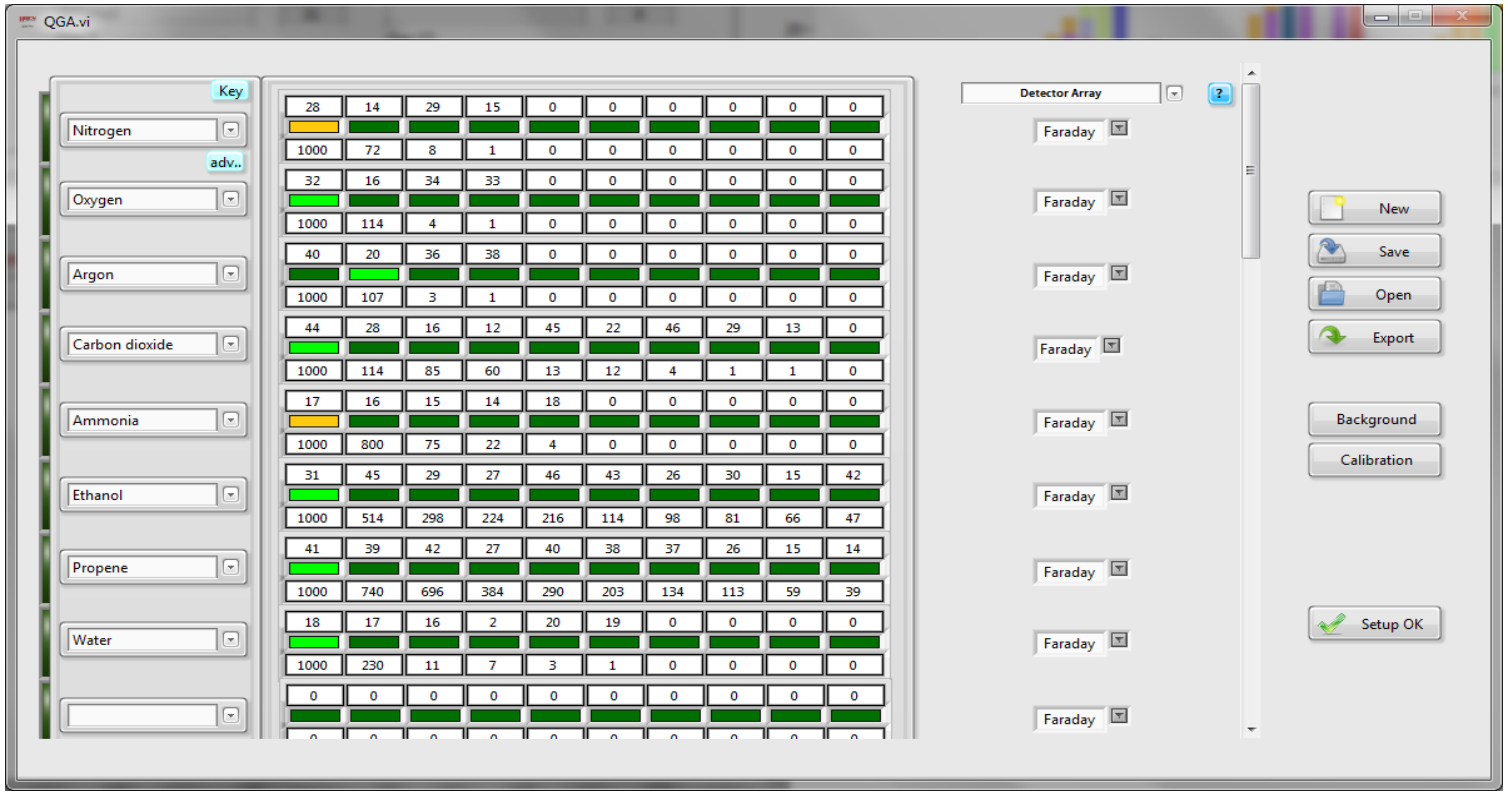
Data export on the fly to MS Excel and to tags for OPC compatible clients is included.

QGA - Home Screen



Three control sections for instrument comms, analysis, data view/export.
Two display areas with mass spectral evaluator, emulating the iPad app.

QGA – Gas Analysis Recipe Set-Up



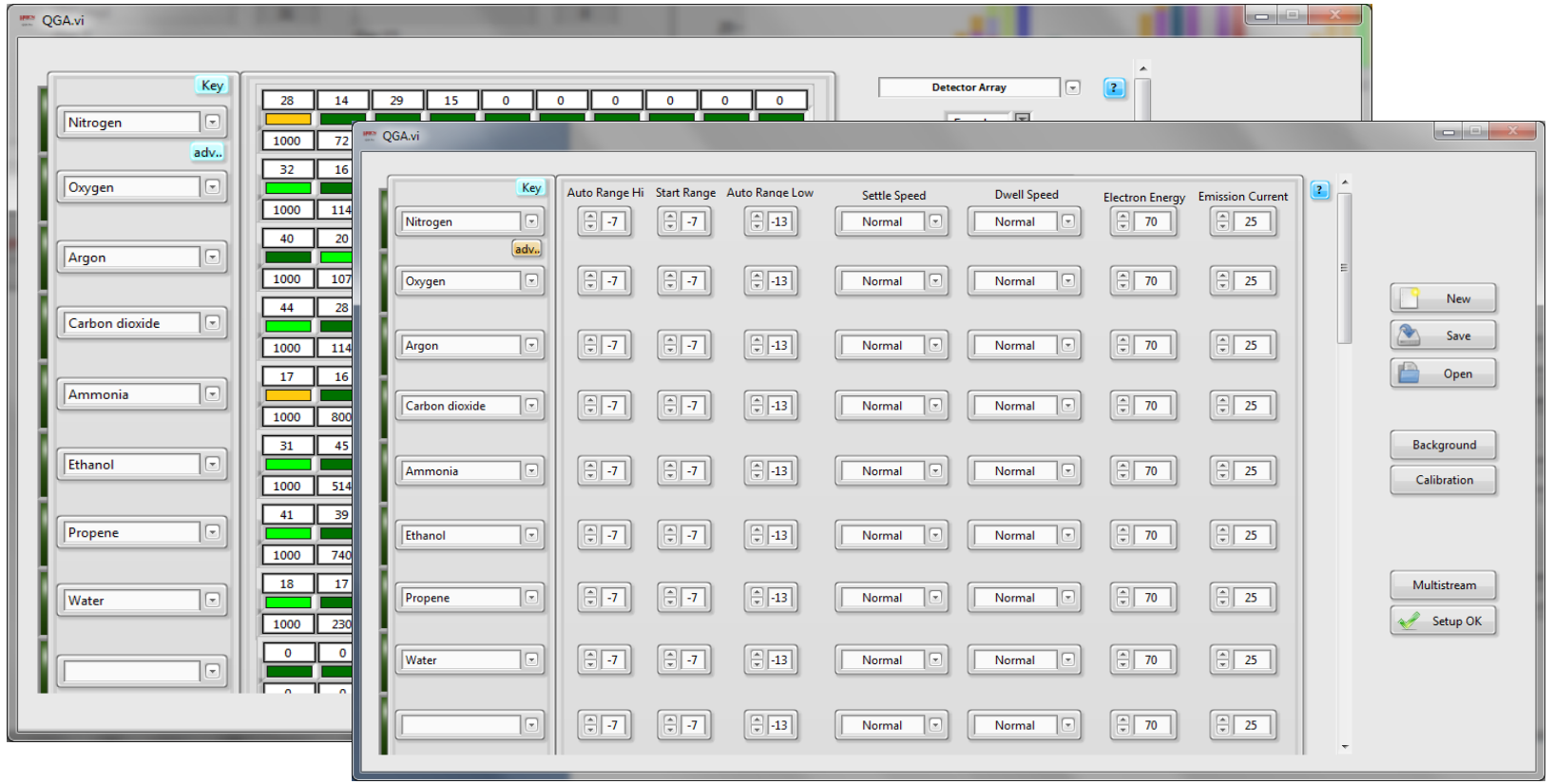
Gas and vapours included for analysis are selected from the library. The MS evaluator automatically selects the optimum mass peaks to complete the analysis. Recipes can be edited, saved and exported.

QGA – Gas Analysis Recipe Set-Up



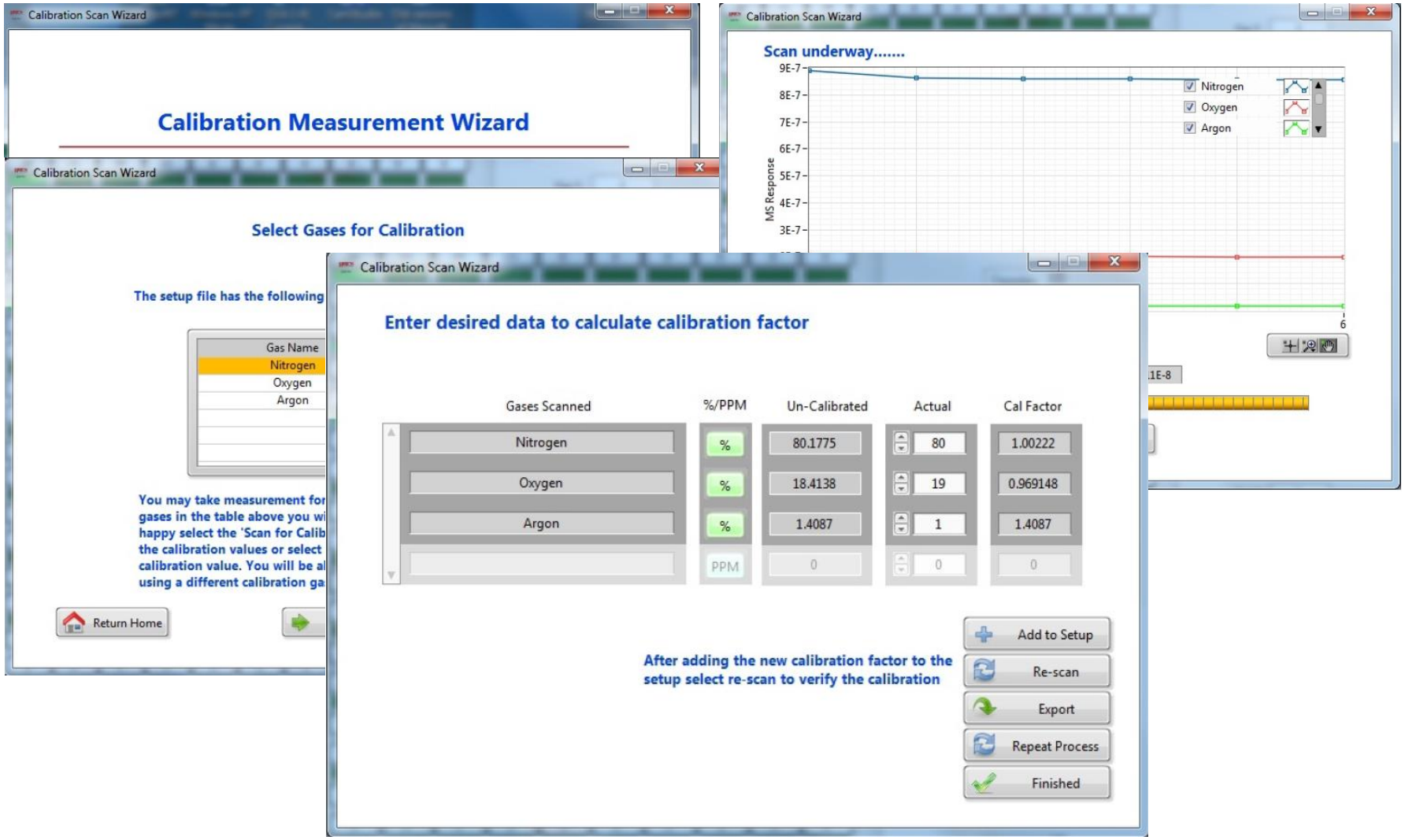
The gas set up can be viewed with filter 'off' as above or 'on' as shown in the previous slide. The filter off setting combined with the peak limit settings allows an advanced user to optimise peak selection for analysis.

QGA – Advanced settings

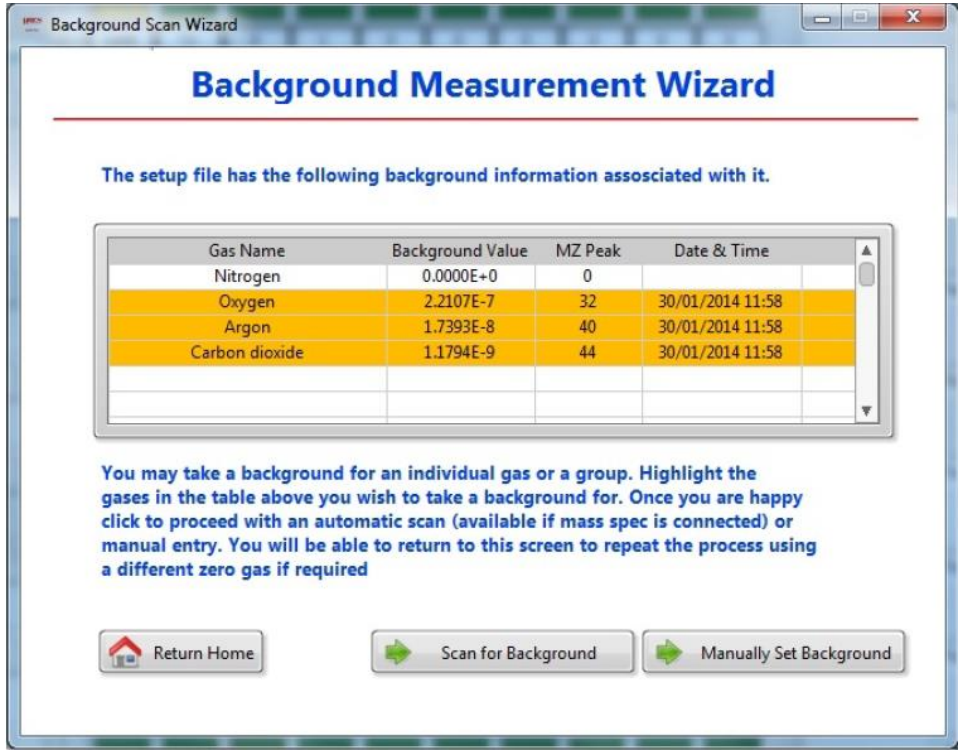


Advanced settings provide for control of the dynamic range, the soft ionisation parameters (emission current and electron energy), and the scan speed for each gas.

QGA Calibration Wizard

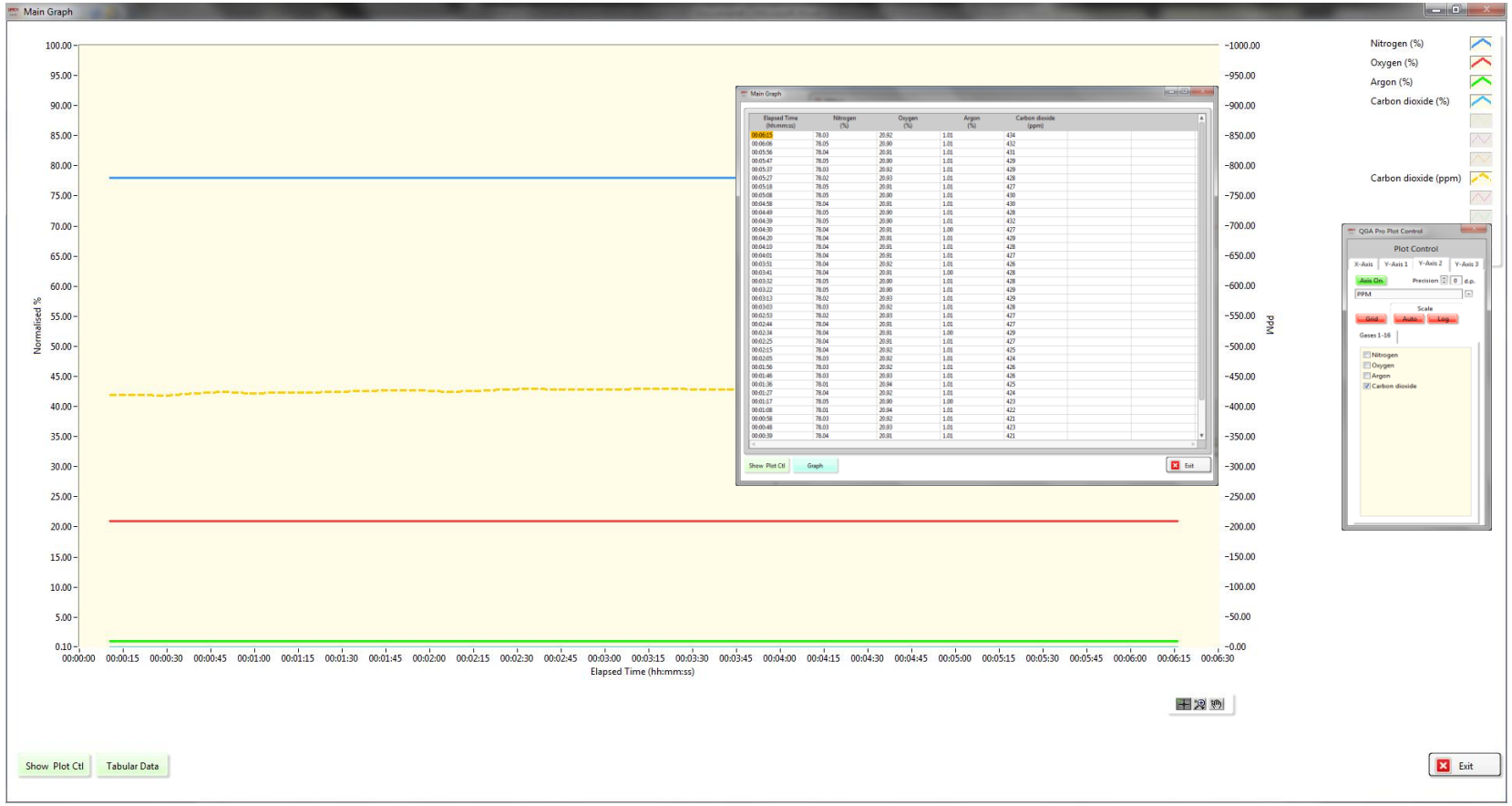


QGA Background Subtraction Wizard



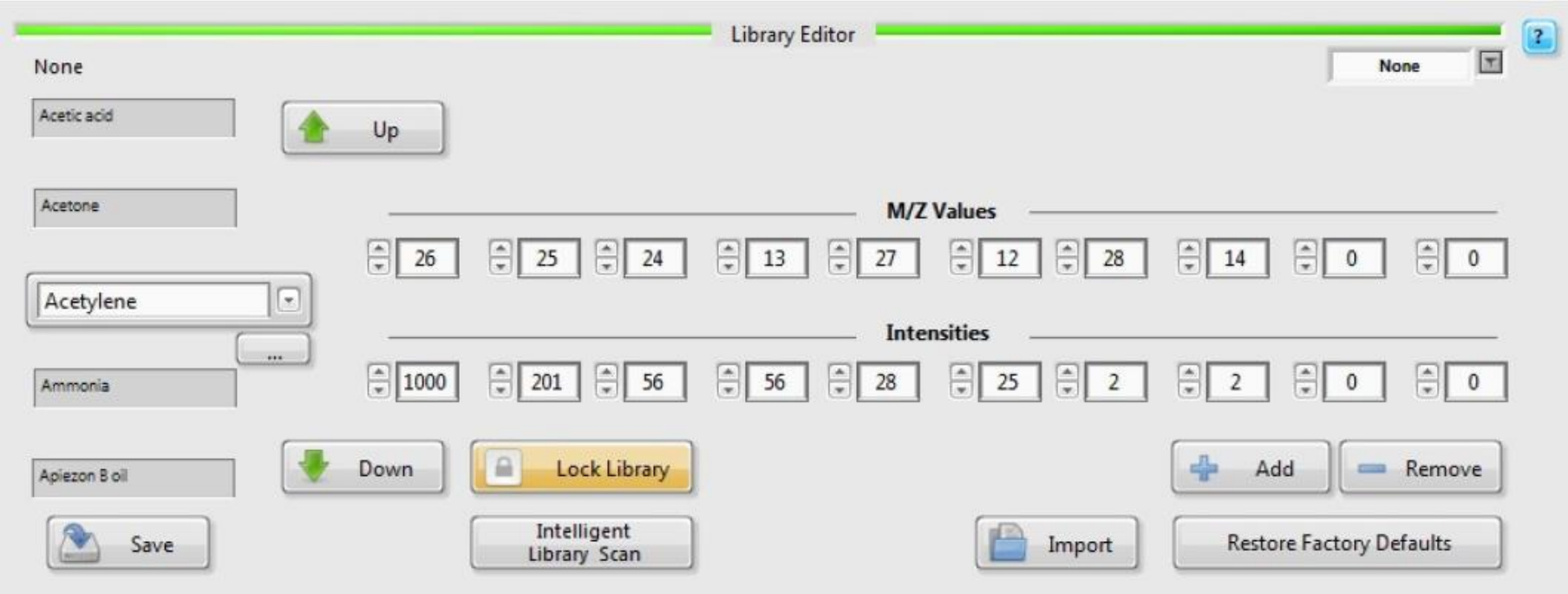
The instrument connected to a ‘zero’ gas can automatically scan the instrument ‘background signal’ for any selected gas. Measured data is automatically corrected for the background levels recorded. Applicable for measurements at PPM concentration levels for species including: CO_2, Water, Hydrogen, CO and Nitrogen

QGA – Real Time Data Display



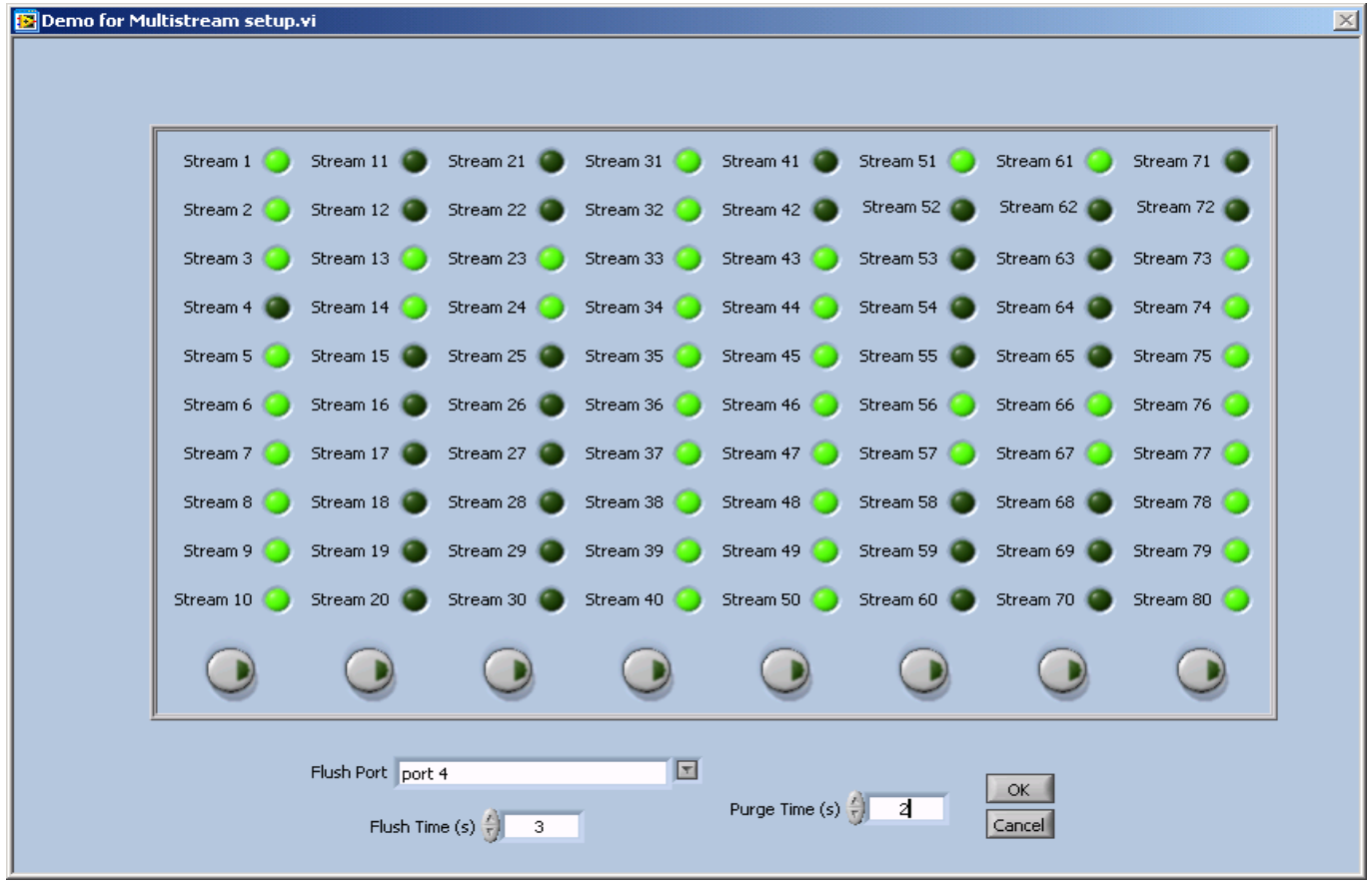
Graphical and tabular display with full axis control.

QGA – Library editor



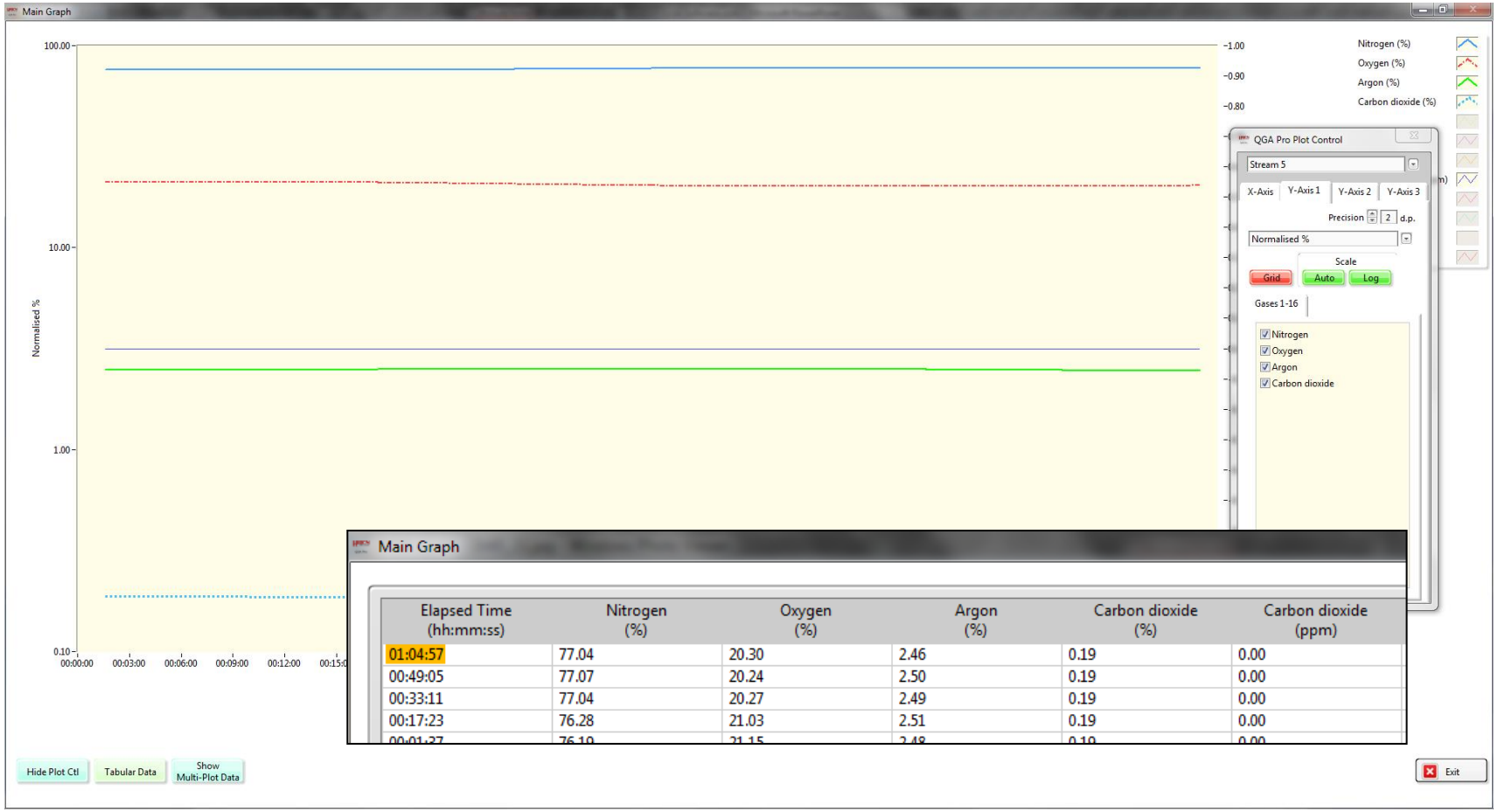
The library editor includes the ‘Intelligent Library Scan’ feature that automatically corrects the library entry for a given gas for specific instrument settings.

QGA – Multi-stream



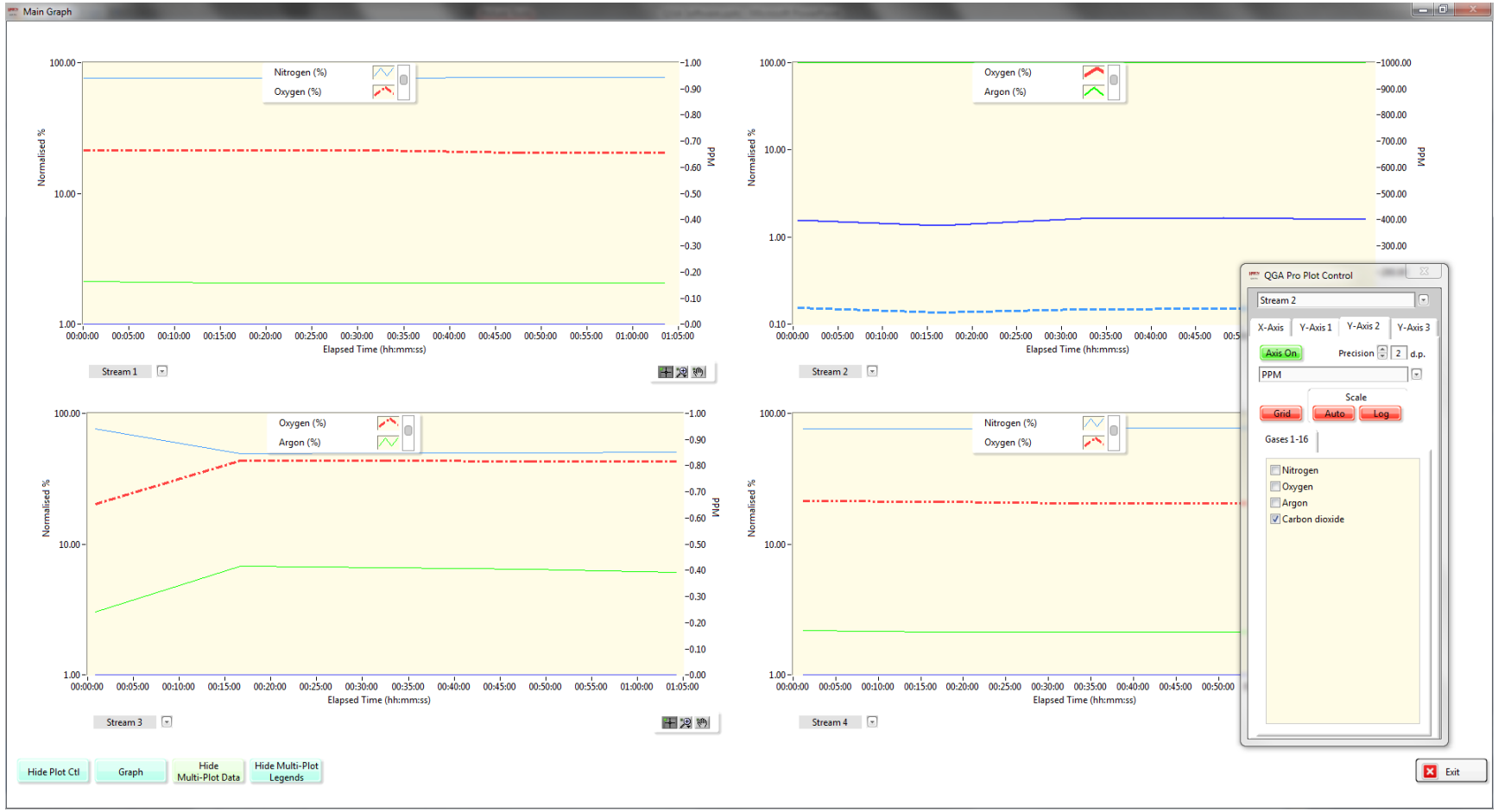
QGA multi-stream includes control for multi stream gas sampling inlets, with up to 80 streams. The sample stream sequence is fully editable before and during analysis.

QGA – Multi-stream



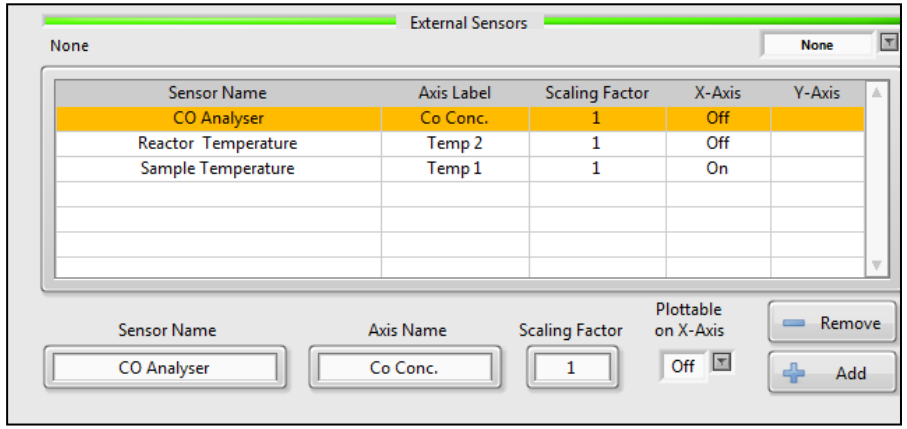
QGA Multi-stream displays selected stream data in graphical and tabular views. The example shown above is stream 5 from a 40 stream system.

QGA – Multi-stream

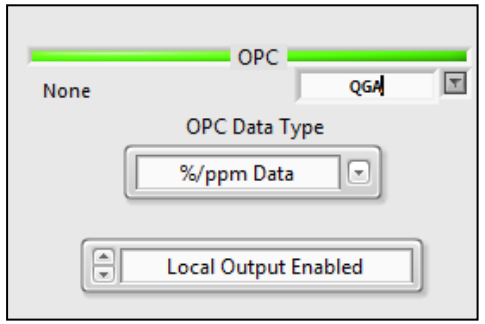


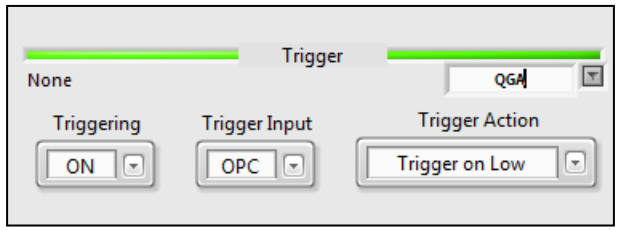
QGA Multi-stream displays up to 4 selected streams on a multi-plot.

QGA – external sensors and data export



Data from external sensors and devices can be acquired, stored and displayed together with the mass spectrometer data.





Data is exportable to Excel, and is available to OPC servers through a shared variable engine that publishes data to OPC tags. Analysis start/stop can be controlled via an OPC trigger or from an I/O input/TTL trigger input.

Hiden QGA Users

Johnson Matthey
Imperial College London
NASA
Poitiers University
Nissan
KTH Stockholm
Karlsruhe Institute of Technology
University of Florida
The University of Hong Kong
Paul Scherrer Institut
ULB Brussels University
Texas A&M University
University of Sao Paolo
University College London
Technical University Denmark

Beijing Forestry University
CSIR – Indian Institute of Petroleum
Diamond Light Source
Shanghai Institute of Technology
Janssen Pharmaceutica
PDVSA
Air Liquide
BASF
TU Delft
Seoul National University
University of Manchester
University of British Columbia
USTB
University of Nottingham

Summary

- QGA software is designed for use by users with or without experience of mass spectrometry.
- Set-up screens are intuitive and easy to navigate. A calibration wizard guides the user through an automated procedure.
- Raw data, corrected data and quantitative data is acquired, displayed (graphical and tabular formats) and saved in real time.
- Data export on the fly to MS Excel and to tags for OPC compatible clients is included.
- Soft ionisation for reduced spectral fragmentation and simplified data interpretation
- QGA software is offered with Hiden's QIC series gas analysis systems.



- www.HidenAnalytical.com
- The Hiden website is an excellent resource with product pages, brochures, catalogues, product pages with some application notes, presentation and other information.
- Contact +44 1925 445225 for direct support.