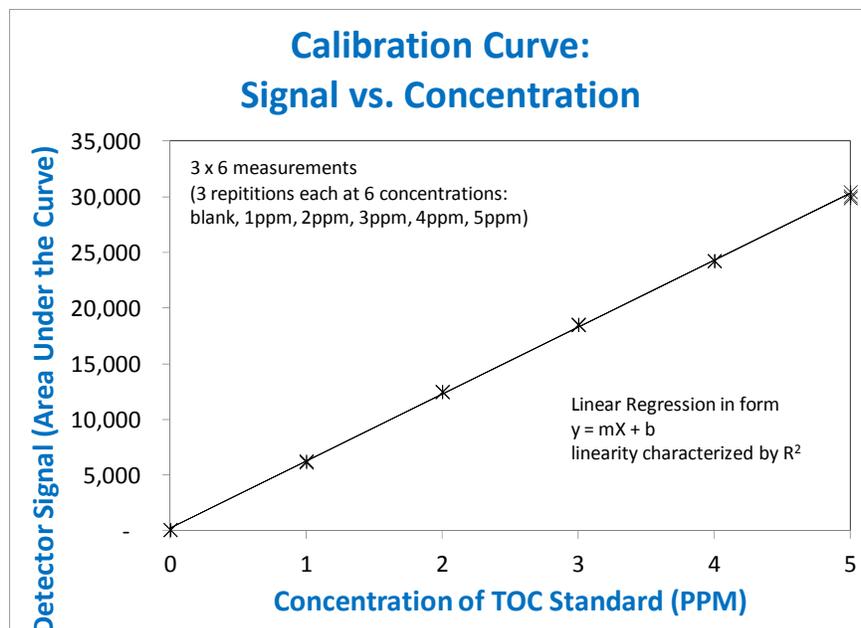


Application Note

QbD1200 CALIBRATION

The calibration of a TOC Analyzer is a crucial part of ensuring a quality measurement.

Calibration is typically conducted by taking multiple measurements at different concentrations of a known primary standard. The measurement signal can be plotted against concentration to produce a calibration curve. The figure below shows an example of a calibration curve generated on the QbD1200.



QbD1200 calibration is designed to be convenient and easy to perform.

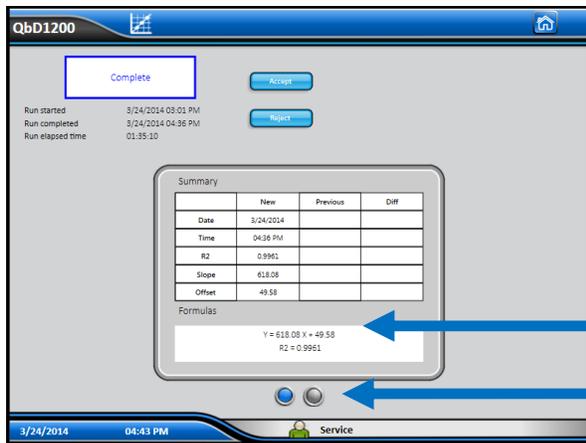
Notes:

- Only a single 125mL bottle of 5ppm KHP primary calibration standard is required during calibration.
 - The analyzer automatically dilutes this down (using One Reagent) to concentrations of 4ppm, 3ppm, 2ppm, and 1ppm TOC.
 - One Reagent without any added KHP standard is measured for the blank values.
- In regular measurement mode (not calibration), the QbD1200 automatically checks unknown samples during an auto-range step. All samples >4ppm TOC are automatically diluted down with the One Reagent.
 - Calibration performed up to 5ppm will cover the full measurement range (1ppb-100ppm) because any samples that are > 5ppm are diluted down to <5ppm.
- Calibration Pass criteria:
If the R^2 of the calibration curve is ≥ 0.99 , then the calibration passes and can be accepted.
- Record keeping
 - Every calibration performed on the QbD1200 is stored in the encrypted database.
- It is easy to create a report of all calibration records.

- Calibration time
Total calibration time for the QbD1200 is approximately 90 minutes.

After a calibration, the results are clearly displayed in two formats: 1) table view; 2) graph view

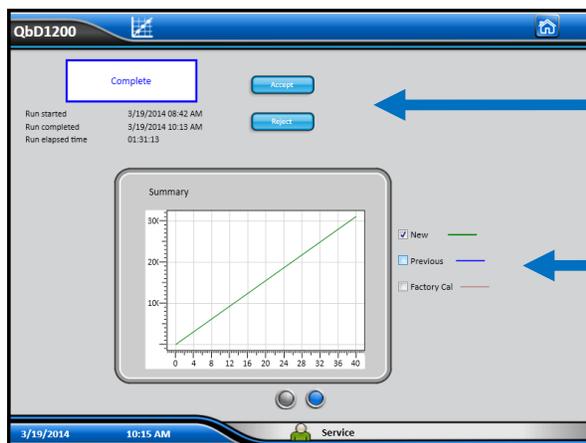
Table View



Equation with R^2

Swipe or touch circle to switch to Graph View

Graph View



Option to Accept or Reject

Check box to display previous calibration curve

FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:
Tel: 800-227-4224 | E-Mail: techhelp@hach.com
To locate the HACH office or distributor serving you, visit: www.hach.com

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