



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CHEMTRACE FREMONT ANALYTICAL TESTING SOLUTIONS

Quantum Global Technologies, LLC  
44050 Fremont Boulevard  
Fremont, CA 94538  
Dr. Patrick Taylor Phone: 503 258 4067  
Patrick.Taylor@uct.com

CHEMICAL

Valid To: February 28, 2025

Certificate Number: 2252.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following specialized analytical test services for chemicals, aqueous solutions, ultrapure water, components, chamber parts, and wafers including:

<u>Test(s)</u>	<u>Test Method(s)</u>
Analysis of Trace Metals by ICP-MS - In Acid and Base Solutions Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Ge, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Sb, Sn, Sr, Ta, Ti, Tl, V, Zn, Zr  - In Organic Solvents Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Ge, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Sb, Sn, Sr, Ta, Ti, Tl, V, Zn, Zr	SOP CAT-C039 SOP CAT-C003   SOP CAT-C007
Analysis of Trace Metals by ICP-MS - In Ultrapure Water Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, Pb, Pd, Pr, Pt, Rb, Re, Rh, Ru, Sb, Sc, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr	SOP CAT-W002
Analysis of Surface Trace Metals by ICP-MS Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Ge, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Zn, Zr  - On Silicon Wafers by VPD - On Tool Components by Acid Extraction	SOP CAT-S007  SOP CAT-S001 SOP CAT-S005
Analysis of Total Silica in Ultrapure Water by ICP-OES	SOP CAT-W011
Analysis of Anions and Cations by Ion Chromatography - Ultrapure Water - Aqueous Solutions	SOP CAT-W003A SOP CAT-W010

<b><u>Test(s)</u></b>	<b><u>Test Method(s)</u></b>
Analysis of Dissolved Silica in Ultrapure Water by Spectrophotometer	SOP CAT-W017
Assay of Chemical Solutions by Auto-Titration Method	SOP CAT-C023
Analysis of pH in Aqueous Solutions	SOP CAT-C045 SOP CAT-W027
Quantitation of Viable Bacteria in Ultrapure Water	SOP CAT-W005
Analysis of Total Organic Carbon (TOC) in UPW, Acid, Hydrogen Peroxide, or Base Solutions	SOP CAT-C016 SOP CAT-W016
Analysis of Conductivity in Aqueous Solutions	SOP CAT-W028
Analysis by Scanning Electron Microscopy/Electron Dispersion X-Ray Spectroscopy (SEM/EDX) <ul style="list-style-type: none"> <li>• Enumeration of Particles in Ultrapure Water</li> <li>• Analysis of Unknown Solids</li> <li>• Surface Morphology</li> </ul>	SOP CAT-W021
Analysis of Liquid Samples by Particle Measuring Systems	SOP CAT-C029



## Accredited Laboratory

A2LA has accredited

### CHEMTRACE FREMONT ANALYTICAL TESTING SOLUTIONS

*Fremont, CA*

for technical competence in the field of

### Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 25<sup>th</sup> day of May 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2252.01  
Valid to February 28, 2025

*For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.*