PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Quantifi Photonics Limited

12 - 14 Parkway Drive Rosedale, Auckland, New Zealand 0632

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

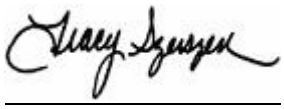
Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Electrical and Optical Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:



Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
March 04, 2022	September 10, 2026	November 30, 2028

Accreditation No.:	*Certificate No.:*
111484	L26-812

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Quantifi Photonics Limited

12 - 14 Parkway Drive Rosedale, Auckland, New Zealand 0632
Contact Name: Larry Mu Phone: +64-210-821-8266

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Optical	Fiber Optics Power Measuring Equipment (@ 800 nm to 900 nm)	+27 dBm to -45 dBm	0.22 dB	Comparison against a Reference Power meter, VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B	CWI-01, CWI-02, CWI-03, CWI-05, CWI-10 IEC 61315	F1, F2, F3	F
Optical	Fiber Optics Power Measuring Equipment (@ 960 nm to 1 600 nm)	+27 dBm to -45 dBm	0.21 dB	Comparison Against a Reference Power Meter VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B.	CWI-01, CWI-02, CWI-03, CWI-05, CWI-10 IEC 61315	F1, F2, F3	F
Optical	Fiber Optics Power Measuring Equipment (@ 1 600 nm to 1 635 nm)	+27 dBm to -45 dBm	0.24 dB	Comparison Against a Reference Power Meter VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B.	CWI-01, CWI-02, CWI-03, CWI-05, CWI-10 IEC 61315	F1, F2, F3	F
Optical	Optical Power Linearity Measuring Equipment (@ 800 nm to 1 635 nm)	+10 dBm to - 45 dBm	0.015 dB	Comparison Against a Reference Power Meter, VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B.	CWI-01, CWI-02 IEC 61315	F1, F2, F3	F
Optical	Optical Power Linearity Measuring Equipment (@ 800 nm to 1 635 nm)	+27 dBm to +10 dBm	0.036 dB	Comparison Against a Reference Power Meter, VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B.	CWI-01, CWI-02 IEC 61315	F1, F2, F3	F

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Optical	Insertion Loss Measuring Equipment (@ 800 nm to 1 635 nm)	Up to 40 dB	0.075 dB	Reference Power meter, VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B.	CWI-01 IEC 61300-3-4	F1, F2, F3	F
Optical	Attenuator Linearity Measuring Equipment (@ 800 nm to 1 635 nm)	Up to 40 dB	0.023 dB	Reference Power meter, VIAVI MOPM-C1PMH4-MPMHP, EXFO IQ-1102x, Keysight 81624B.	CWI-01 IEC 61300-3-4	F1, F2, F3	F
Optical	Wavelength Measuring Equipment (@ 499.654 1 THz to 206.753 5 THz)	600 nm to 1 450 nm	105 pm	EXFO IQ-5320-EA Yokogawa AQ6370D-02	CWI-03, CWI-10 IEC 62129-1 IEC 62129-2	F1, F2, F3	F
Optical	Wavelength Measuring Equipment (@ 181.692 4 THz to 176.348 5 THz)	1 650 nm to 1 700 nm	105 pm	EXFO IQ-5320-EA Yokogawa AQ6370D-02	CWI-03, CWI-10 IEC 62129-1 IEC 62129-2	F1, F2, F3	F
Optical	Wavelength Measuring Equipment (@ 206.753 5 THz to 181.692 4 THz)	1 450 nm to 1 650 nm	4.8 pm	EXFO IQ-5320-EA Yokogawa AQ6370D-02	CWI-03, CWI-10 IEC 62129-1 IEC 62129-2	F1, F2, F3	F
Electrical	Equipment to Source DC Voltage	1 mV to 10 V	0.42 mV	Keysight 34461A	CWI-02	F1, F3	F

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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. The CMC (Calibration and Measurement Capability) is expressed in terms of measurement instrument/aspect being calibrated, range, expanded measurement uncertainty, equipment, and method/procedure. The expanded measurement uncertainty stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the measurement uncertainty included on this scope for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratory's range of calibration capability for all disciplines for which it is accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CAB's fixed facility

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratory's fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratory's fixed location.

5. This is the primary site for all quality management system activities.

6. Flex Codes
   F0: When no flexibility is identified. There are no changes to items calibrated, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.
   F1: The laboratory has the capability to introduce a new instrument, quantity, or gauge for an accredited calibration method.
   F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
   F3: The laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
   F4: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using the same Calibration Equipment or Reference Standards identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.