



Introducing Our Services

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Agenda

- ▶ Compliance Testing Services
- ▶ Product Certifications Services
- ▶ Global Market Access Services



*"Your Partner in
Global Regulatory
Compliance"*

Introduction

Who We Are

- ▶ Fast growing and cutting-edge EMC/RF testing and certifications provider strategically located in OC.
- ▶ Heavily focused on international regulatory compliance testing and certification of IT equipment, electronic devices, wireless products, and mobile devices.
- ▶ Offering quality and cost-effective compliance testing and certification solutions for accessing global markets.



OUR PROCESS IS EASY



1.

COMPLIANCE TESTING



ISO/IEC 17025
Accredited Testing and
FCC/ISED Recognized



Testing

Overview

- ▶ ISO/IEC 17025 accredited by A2LA for technical competence in the field of electrical testing
- ▶ Expansive testing scope of accreditation
- ▶ Conformity assessment body, test data/reports recognized everywhere
- ▶ Full set test suite, modern tools, and growing quickly
- ▶ Capable of testing a wide range of electrical products



Testing

Accreditation

- ▶ ISO/IEC 17025 accredited by A2LA for technical competence in the field of electrical testing
- ▶ Laboratory Quality Management System, Procedures, Forms
- ▶ Technical competence in electrical testing, testing facilities, calibrations
- ▶ FCC recognized



Testing Cert #4848-01





Testing

Accreditation Scope

Expansive testing scope of accreditation

- ▶ Testing up to 40 GHz
 - ▷ Unintentional Radiators
 - ▷ Intentional Radiators
 - ▷ Industrial, Scientific, and Medical Equipment
 - ▷ Unlicensed Personal Communication Systems
 - ▷ U-NIII with and without DFS Intentional Radiators
 - ▷ UWB Intentional Radiators
 - ▷ BPL Intentional Radiators
 - ▷ General Mobile Services
 - ▷ Commercial Mobile Services



Testing Cert #4848-01



Testing

Accreditation Scope Continued

- ▶ Testing up to 40 GHz
 - ▷ Citizens Broadband Radio Services
 - ▷ White Space Devices
 - ▷ Maritime and Aviation Radio Services
 - ▷ Microwave and Millimeter Bands Radio
 - ▷ Broadcast Radio Services
 - ▷ Signal Boosters
- ▶ Testing up to 6 GHz
 - ▷ RF Exposure
- ▶ Testing up to 2.5 GHz
 - ▷ Hearing Aid Compatibility



Testing Cert #4848-01



Testing

Conformity Assessment Body

- ▶ Conformity assessment body, test data/reports recognized everywhere



Innovation, Science and
Economic Development Canada



MINISTRY OF INFORMATION AND COMMUNICATIONS
OF THE SOCIALIST REPUBLIC OF VIETNAM



Ministry of Economy





Test Reports Accepted.

The testing performed by Vista Labs and the data/test reports produced are recognized and accepted in high demand countries by mutual recognition agreement.

Testing

Test Suite

Full set test suite, modern tools, and growing

- ▶ EMC/EMI Testing
 - ▷ Radiated/Conducted Emissions
 - ▷ Harmonics and Flicker
 - ▷ Radiated/Conducted Immunity, Electrostatic Discharge, Electrical Fast Transients, Surge/Burst
- ▶ Wireless/RF/Radio Transmitter
 - ▷ RF Output Power
 - ▷ PSD
 - ▷ Occupied Channel Bandwidth
 - ▷ Adjacent Channel Leakage Ratio
 - ▷ Adaptivity and Receiver Blocking
 - ▷ Radiated/Conducted TX and RX Spurious Emissions





Testing

Test Suite Continued

Full set test suite, modern tools, and growing

- ▶ DFS Testing
 - ▷ DFS Detection Threshold
 - ▷ Channel Available Check (CAC) Time
 - ▷ Off Channel CAC Time
 - ▷ Channel Move Time
 - ▷ Channel Closing Transmission Time
 - ▷ Non-occupancy Period
- ▶ SAR/HAC
 - ▷ Head/Body RF Exposure
- ▶ 2G/3G/LTE Testing

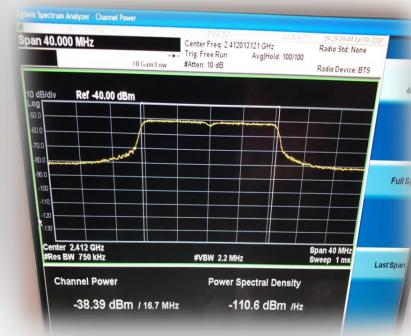




Vista Laboratories
TEST · CERTIFY · COMPLY

Testing

Test Suite Continued



Testing

- ▶ General electrical and electronic products
- ▶ Information technology equipment, laptops, tablets
- ▶ Medical devices, implantable devices, sensors
- ▶ Licensed or license-exempted (unlicensed) transmitters
- ▶ Short range devices, Low power intentional radiators
- ▶ RFID, Wireless headphones, Wireless charging pads, Keyless Entry, Toll-tag, Wireless LAN, GPS trackers, wireless routers, access points, push-to-talk radios
- ▶ Bluetooth Devices, Bluetooth-enabled devices, Bluetooth development kits, Bluetooth low energy
- ▶ Fixed Link Radios, Transmitters, receivers, radio systems, relays, base stations, and customer premises equipment (CPE)

Products We Test



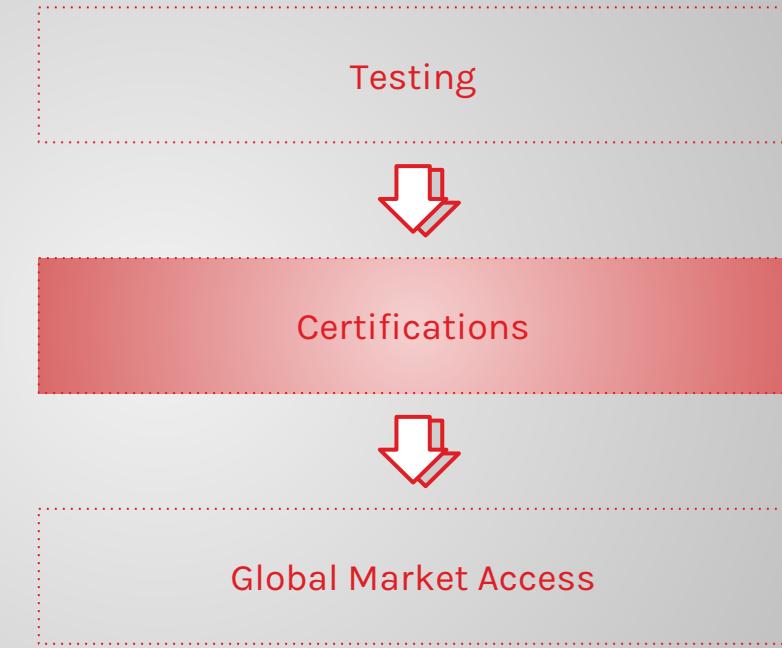
Testing

Why Choose Us?

1. Testing Capability: accredited, large testing scope, testing/reports accepted virtually everywhere.
2. Cost-effective: Low overhead costs due to efficient internal processes and modern tools/resources.
3. Convenient and Efficient: Quick turnaround, flexible scheduling, organized backlog, urgent project handling, and local support/pick-up to cater to client's needs.



OUR PROCESS IS EASY



2.

PRODUCT CERTIFICATIONS

ISO/IEC 17065 Accredited
Certification Body
and a TCB/FCB





Certifications

Overview

- ▶ ISO/IEC 17065 accredited by A2LA as a product certification body
- ▶ Expansive certification scope of accreditation and certification schemes
- ▶ Phase II CAB, certifications accepted everywhere
- ▶ Modern certification and management tools
- ▶ Capable of certifying a wide range of electrical products



Certifications

Accreditation

- ▶ ISO/IEC 17065 accredited by A2LA as a product certification body
- ▶ Certification Body Quality Management System, Procedures, Forms
- ▶ Technical competence in review of electrical testing reports and data
- ▶ Serving as TCB in North America, FCB in Canada, NB in EU



Certifications

Accreditation Scope

Expansive certification scope and certification schemes

- ▶ Federal Communication Commission (FCC) – TCB Roles and Responsibilities
 - ▷ Unlicensed Radio Frequency Devices (Scope A)
 - ▷ Licensed Radio Frequency Devices (Scope B)
- ▶ Innovation Science and Economic Development – Canada (ISED)
 - ▷ License-Exempt Radio Frequency Devices (Radio Scope 1)
 - ▷ Licensed Personal Mobile Radio Services (Radio Scope 2)
 - ▷ Licensed General Mobile & Fixed Radio Services (Radio Scope 3)
 - ▷ Licensed Maritime & Aviation Radio Services (Radio Scope 4)
 - ▷ Licensed Fixed Microwave Radio Services (Radio Scope 5)



Certifications

Accreditation Scope Continued

- ▶ IMDA – Singapore
 - ▷ Radio-Communication Equipment
- ▶ OFCA – Hong Kong
 - ▷ Radio Equipment
 - ▷ Marine Radio Equipment
- ▶ MIC – Japan
 - ▷ Radio Law (Radio Equipment)
- ▶ EC – European Union
 - ▷ Radio Equipment Directive (RED) 2014/53/EU
 - ▷ Electromagnetic Compatibility (EMC) Directive 2014/30/EU



The Bridge Between **Testing** and **Certifications**



Certifications

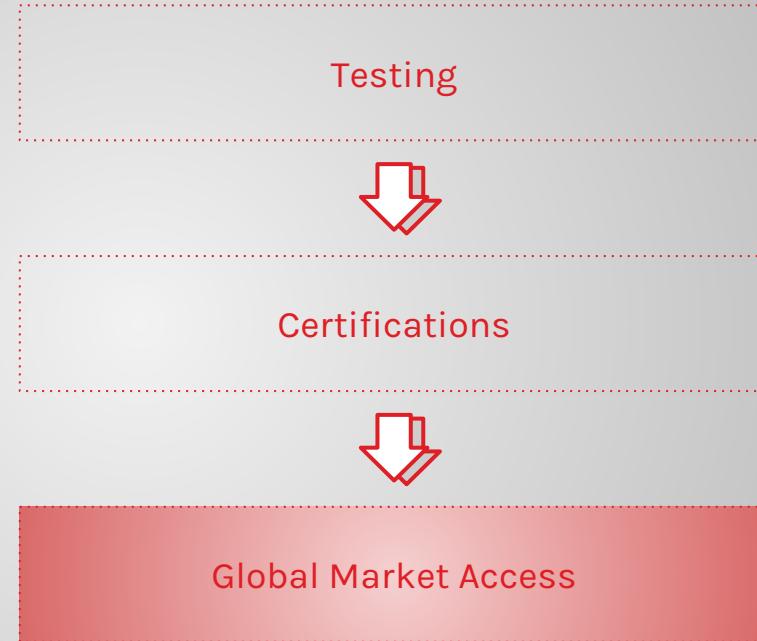
Why Choose Us?

1. Certification Capability: accredited, can certify for many schemes, certifications accepted virtually everywhere.
2. Cost-effective: Low overhead costs due to efficient internal processes and modern tools/resources.
3. Convenient and Efficient: Quick turnaround, flexible scheduling, organized backlog, urgent project handling, and local support/pick-up to cater to client's needs.





OUR PROCESS IS EASY



3.

GLOBAL MARKET ACCESS



Efficiently obtaining
approval for your
products, in foreign
markets



Global Markets

Overview

- ▶ Expansive global type approval reach
- ▶ Local representatives worldwide to help directly access global markets
- ▶ Single point of contact for all economies
- ▶ Modern certification and management tools to ensure on-time and on-target deliveries



Global Coverage





150+

Can provide international type approval for over
150 countries in the world.

500 reps

Over 500 local representatives worldwide

150 countries

For over 150 countries

100%

Total success!



LET'S REVIEW SOME KEY POINTS

Compliance Testing

- High Tech Facilities
- Comprehensive Capabilities
- Guidance, Feedback and Fast Turnaround

Product Certifications

- Experienced Staff
- Recognized and accepted virtually everywhere
- Smooth certification process

Global Market Access

- Regulatory Compliance Updates
- Insights, plannings, management
- Comprehensive Services



THANK YOU!

Questions, comments suggestions?

You can reach us at info@vista-compliance.com

