



EMI / EMC TESTING

Element Boucherville is fully equipped to provide the expertise and customized testing solutions to meet all your product development and regulatory compliance needs. From EMC/EMI, to International Approvals and Certification, we'll help accelerate your entry into key global markets.

What is also important to note is that when you entrust your electrical testing to us, you get the expertise of an ISO/IEC 17025-certified lab with its A2LA — or American Association for Laboratory Accreditation (Certificate Number: 0214.48).

INTERNATIONAL APPROVALS AND CERTIFICATION

Getting your product into international markets can be difficult—particularly during a pandemic. Plus, geopolitical dynamics fundamentally change the type of markings you might need to get your product into a new country. In the UK, for example, Brexit means that you will need a UKCA marking to sell your product. Meanwhile, new criteria for your product in Russia, Ukraine, India, Brazil, Egypt, and the United Arab Emirates is necessary. Are you aware of these changes? The good news is that a team of experts is dedicated to helping you track every minor change to help you secure regulatory approval in global markets. The goal is to streamline the process for entering international markets to avoid delays and duplicative testing. The international approval services include the following:

- A Single-Point-of-Contact for 180 Countries
- In-country Testing and Approvals
- Globally Recognized Test Reports
- In-Country Representation
- On-going Compliance Tracking
- Compliance Strategy for Faster Certification

EMI / EMC TESTING AT ELEMENT BOUCHERVILLE

The conformity to electromagnetic compatibility and interference (EMC and EMI) norms and regulations is a crucial step in the development of every electric and electronic product. Plus, if for any reason the appropriate electromagnetic compatibility has not been fully taken into consideration during a product's design, it is highly likely that its functional performance and reliability will be adversely impacted later.

For companies that supply electronic components to industries ranging from telecommunications to the defense sector, it simply makes sense for your individual products, as well as your business's overall reputation, to be proactive about your EMI/EMC testing. That is why putting our technical expertise, semi-anechoic chambers and state-of-the-art equipment behind your next project is such a prudent decision.

The Element Boucherville EMC testing laboratory is fully equipped and ready to support during your products' EMC and EMI qualification process—from prototype development to proper product certification.

DELIVERING INNOVATIVE PRODUCT TESTING AND CERTIFICATION SOLUTIONS

EMI/EMC TESTING HIGHLIGHTS

- Servicing the Consumer Electronic Products, Laboratory Equipment, Industrial Equipment, Medical Equipment, Automotive & Airborne Equipment
- In field-testing available for large equipment (example: vehicles)
- Radiated Susceptibility ~ 30 V/m, frequency range 10 kHz to 18 GHz,
- RF Emissions ~ 30 Hz to 40 GHz
- 3 meter emission semi-anechoic chamber – 94 inches x 80 inches doors
- Compact RF immunity chamber – 94 inches x 80 inches doors
- Transient generator for Surge, Electrical Fast Transients, Ring-wave, Damped Oscillatory Wave, Common Mode Disturbances
- Electrostatic discharge up to 30 kV

EMI/EMC TEST SPECIFICATIONS

- Radiated electromagnetic field
- Conducted emissions
- Harmonic currents emissions
- Voltage fluctuations and flicker emissions
- Electrostatic Discharge (ESD) Immunity
- Radiated electromagnetic field immunity
- Electrical fast transient/burst immunity
- Surge immunity
- Immunity to conducted disturbances immunity
- Pulse magnetic field immunity
- Damped oscillatory magnetic field immunity
- Voltage dips, short interruptions & voltage variation immunity
- Immunity to conducted, common mode disturbances
- Ripple on DC Input Power Port Immunity
- Damped oscillatory wave immunity
- DC Input Power Port Immunity Tests

PRIMARY TEST SPECIFICATIONS

- FCC Part 15 & 18
- ICES-001/002/003/005
- CISPR 11 / EN 55011
- CISPR 12 / EN 55012
- CISPR 14-1 / EN 55014-1
- CISPR 15 / EN 55015
- CISPR 22 / EN 55022 / AS-NZS CISPR 22
- CISPR 25 / EN 55025
- CISPR 32 / EN 55032
- EN / IEC / AS/NZS 61000-3-2
- EN / IEC / AS/NZS 61000-3-3
- EN / IEC 61000-4-xx
- ANSI C37.90.xx
- KS C 9610-xx
- EN / IEC 60255-5
- EN / IEC 60255-27
- EN / IEC / AS/NZS 61000-6-1
- EN / IEC / AS/NZS 61000-6-2
- EN / IEC / AS/NZS 61000-6-3
- EN / IEC / AS/NZS 61000-6-4
- EN / IEC / AS/NZS 61000-6-8
- EN 50121-3-2 / IEC 62236-3-2
- EN 50155
- CISPR 24 / EN 55024
- CISPR 35 / EN 55035
- EN / IEC 60601-1-2
- EN / IEC 61326-1
- EN / IEC 61547
- IEC 61850-3;
- IEEE 1613 / IEEE 1613.1
- IEC 61000-6-5;
- IEC 60255-26
- SN-62.1008-1 (Hydro-Quebec)
- RTCA-DO160
- ISO 10605
- ISO 11452-2
- ISO 11452-4
- ISO 11452-8
- ECE Reglement No. 10
- and more...