

# Cincinnati Electronics

## EMI/EMC TESTING

L-3 Cincinnati Electronics has been conducting Electromagnetic Interference and Electromagnetic Compatibility Testing for over fifty years. These critical tests ensure the electronic systems deployed in various installations perform their designated tasks, without causing interference to other electronic systems within the operating environment. L-3-CE's advanced testing laboratories were developed for CE's qualification requirements to supply high-technology electronics and infrared systems for the U.S. Military.



### OVERVIEW

- Fifty years experience in EMI/EMC; twenty years experience testing aircraft engine control systems.
- Testing meets stringent requirements of U.S. Military and Avionics test standards.
- Test facilities are nationally and internationally recognized for accurate results in an efficient environment.



## EMI/EMC TESTING

### Services Offered:

#### MIL-STD-461D /MIL-STD-461E TEST METHODS

CE101: Conducted Emissions, Power Lines  
CE102: Conducted Emissions, Power Lines  
CE106: Conducted Emissions, Antenna Port  
CS101: Conducted Susceptibility, Antenna Port  
CS103: Conducted Susceptibility, Antenna Port, Intermodulation  
CS104: Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals  
CS105: Conducted Susceptibility, Antenna Port, Cross-Modulation  
CS109: Conducted Susceptibility, Structure Current  
CS114: Conducted Susceptibility, Bulk Cable Injection  
CS115: Conducted Susceptibility, Impulse Excitation  
CS116: Conducted Susceptibility, Damped Sinusoidal Transients  
RE101: Radiated Emissions, Magnetic Field  
RE102: Radiated Emissions, Electric Field  
RE103: Radiated Emissions, Antenna Spurious and Harmonic Outputs  
RS101: Radiated Susceptibility, Magnetic Field  
RS103: Radiated Susceptibility, Electric Field

#### RTCA/DO-160 TEST METHODS

Section 15: Magnetic Effects  
Section 16: Power Input  
Section 17: Voltage Spike  
Section 18: AF Conducted Susceptibility  
Section 19: Induced Signal Susceptibility  
Section 20: RF Susceptibility (Conducted & Radiated)  
Section 21: RE Emissions (Conducted & Radiated)  
Section 22: Lightning Induced Transient Susceptibility  
Section 25: Electrostatic Discharge (ESD)

#### OTHER TEST CAPABILITIES

High Intensity Radiated Field (HIRF)  
Power Handling Capabilities

#### LABORATORY FEATURES

Automated Emissions & Susceptibility Test Processes  
Experienced Trained Personnel  
Modern Up-to-Date Facilities and Equipment

#### Cincinnati Electronics

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