

# Electromagnetic Compatibility Testing & Consultancy Service

## Electromagnetic Compatibility Centre

### Introduction

Hong Kong Productivity Council Electromagnetic Compatibility (EMC) Centre, established in 1997 is an independent laboratory to offer accredited EMC testing services pursuant to various national/regional testing standards. By staying abreast of modern developments, the Centre endeavors to assist manufacturers to achieve compliance with relevant requirement through the comprehensive technical support, hence promoting industry's productivity and competitiveness.



### Service Target

- Manufacturers of electrical and electronic products, and automotive components
- Laboratories and certification bodies
- Engineering consultancy firms and R&D companies
- Government departments and public bodies

### Service Scope

- Pre-compliance evaluation
- Full compliance testing
- On-site assessment service
- Training
- Consultancy



### Main Product Range

Category	Test Standard
Broadcast audio receivers and associated equipment	EN 55032 EN 55035 FCC Part 15
Multimedia equipment	
General lighting equipment and luminaries	EN 55015 EN 61547
Household appliances, electric tools and similar apparatus, electric / electronic toys	EN 55014-1 EN 55014-2
Radio communication equipment, and radio remote control devices	EN 300 220-1 EN 300 220-2 EN 300 328 EN 301 893 EN 300 440 EN 301 489-3 FCC Part 15
Generic products (residential and domestic environment)	EN 61000-6-3 EN 61000-6-1 EN 61000-3-2 EN 61000-3-3
Generic products (industrial environment)	EN 61000-6-2 EN 61000-6-4
Automotive components EMC and electrical testing	EC Automotive Directive CISPR 25 EN 50498 ISO 7637 ISO 16750-2 ISO 10605
Railway applications: Electromagnetic compatibility	EN 50121 EN 50155
Medical electrical equipment	EN 60601-1-2
Land mobile radio equipment	ETSI 300 086-1 ETSI 300 296-1



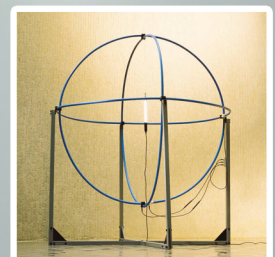
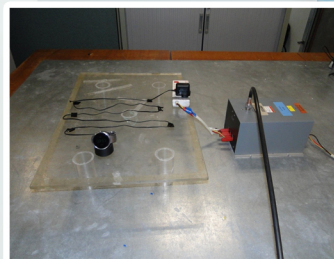
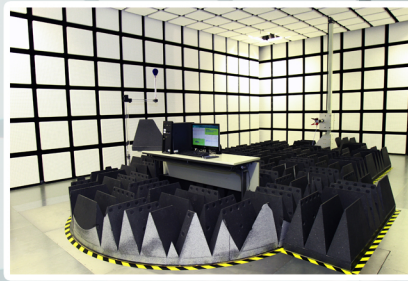
# EMC Testing Equipment and Facilities

- One 10m semi-anechoic chamber
- Two 3m multi-functional fully anechoic chamber
- One 3m fully anechoic chamber
- One 9m x 4m x 2.1m and two 3m x 3m x 2.1m shielded room
- High-speed EMI test receiver of frequency range from 20Hz to 40GHz
- Spectrum analyzer of frequency range from 9kHz to 30GHz
- Antennas of frequency ranges from 9kHz to 40GHz
- Signal generators of frequency ranges from 9kHz to 40GHz
- Environment chamber (-20 °C to +150 °C)
- Harmonics current emissions and voltage fluctuation and flicker test set
- RF power amplifiers of 250W (10kHz to 230MHz) , 250W (80MHz to 1GHz) and 1000W (80MHz to 1GHz)
- Dual band microwave power amplifier of 55W (1GHz to 2GHz) & 30W (2GHz to 4GHz), 200W (1GHz to 2GHz) & 400W (2GHz to 4GHz) and 110W (0.69GHz to 3.2GHz) & 100W (2.5GHz to 6GHz)
- Electric transient signal generators for electrostatic discharge test, electric fast transient/burst immunity tests, surge immunity tests, and voltage dips, short interruptions and short interruption immunity test sets
- Low frequency immunity test system for the frequency range 0Hz (DC) to 150 kHz mainly on the railway system testing
- EMC immunity test system for three-phase equipment
- Transient conduction electrical disturbance measurement and immunity test system for automotive electronic & electrical equipment
- Audio Analyzer

Besides testing equipment and facilities, our professionals in EMC Centre can also provide comprehensive technical consultation and EMC testing services for below industries:

- IoT
- Automotive
- Railway
- Medical, etc.

We are also open for collaboration with T&C bodies in developing new EMC testing services.



## Contact Information

For further information, please contact

EMC Centre, Hong Kong Productivity Council,  
HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong.

Tel: +852 2788 6396 Fax: +852 2788 5405

E-mail: [emc@hkpc.org](mailto:emc@hkpc.org) URL: [www.hkpc.org](http://www.hkpc.org)

