

eBook

Capabilities and Experience

Your Smarter Path to Certification Success



Introduction

GB METECC has a purpose-built test room and area, which includes a 3-metre semi-anechoic chamber, shielding attenuation 10GHz (good for 18GHz).

Currently can perform radiated – 9kHz to 18GHz - and conducted emissions 150kHz to 30 MHz tests. Up to 25GHz radio test capabilities and up to 6GHz radiated immunity tests.

We can also test for harmonics and flicker, magnetic field, radiated electric field, radiated magnetic field, electrical fast transients, electro-static discharge (ESD), surges, dips and interruptions.



Emissions

Test	Example generic standard
Radiated Emissions	CISPR 11, CISPR 32, EN 55032, EN 55011
Conducted Emissions	CISPR 11, CISPR 32, EN 55032, EN 55011
Harmonics	IEC EN61000-3-2
Flicker	IEC EN 61000-3-3

Immunity

Test	Example generic standard
Radiated Immunity	IEC EN 61000-4-3
Conducted Immunity	IEC EN61000-4-6
Electrical Fast Transients and Bursts Immunity	IEC EN 61000-4-4
Surges Immunity	IEC EN 61000-4-5
Magnetic Field Immunity	IEC EN 61000-4-8
Dips, Interruptions, Voltage Variations, Immunity ac supply	IEC EN 61000-4-11
Dips, Interruptions, Voltage Variations, Immunity dc power ports	IEC EN 61000-4-29
Electrostatic Discharge Immunity	IEC EN 61000-4-2



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Open Air Test Site (OATS)

The compliance team offers on-site (at your premises) testing. This usually requires an initial assessment. We do have a range of transportable test equipment and can also hire additional equipment to enhance this service.



Directives and Compliance

We work across many directives, the UK equivalent regulations, and areas of compliance.

- EMC – Electromagnetic Compatibility Directive - 2014/30/EU
- MDR – Medical Device Regulation - EU 2017/745
- RED – Radio Equipment Directive - 2014/53/EU
- Machinery – Machinery Directive - 2006/42/EC
- General Functional Safety – Safety Critical systems
- LVD - Low Voltage Directive - 2014/35/EU
- WEEE – Waste Electrical & Electronic - 2012/19/EU
- RoHS, ErP – Environmental Compliance - 2002/95/EC, 2009/125/EC

Quality Standards

Our commitment to quality and consistent, trusted assessments.

- UKAS-Aligned Testing
 - Ensures consistent, trusted assessments following recognised quality standards
- CE & UKCA Documentation
 - Templates and guidance to support technical files for European and UK markets
- ISO-Aware Process
 - Internal procedures reflect ISO 17025 best practices for testing and calibration



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Advice on Product Standards

The applicable standards depend on the product type, its intended environment, and the markets where it will be sold. Common standards include EN 55032/35 for multimedia equipment, EN 61000-6-1/-6-2/-6-3 and 61000-6-4 for industrial and residential environments, EN 61326 for laboratory equipment, and FCC Part 15 for the US. We can help you identify the correct EMC standards for your product and ensure testing covers all relevant requirements.

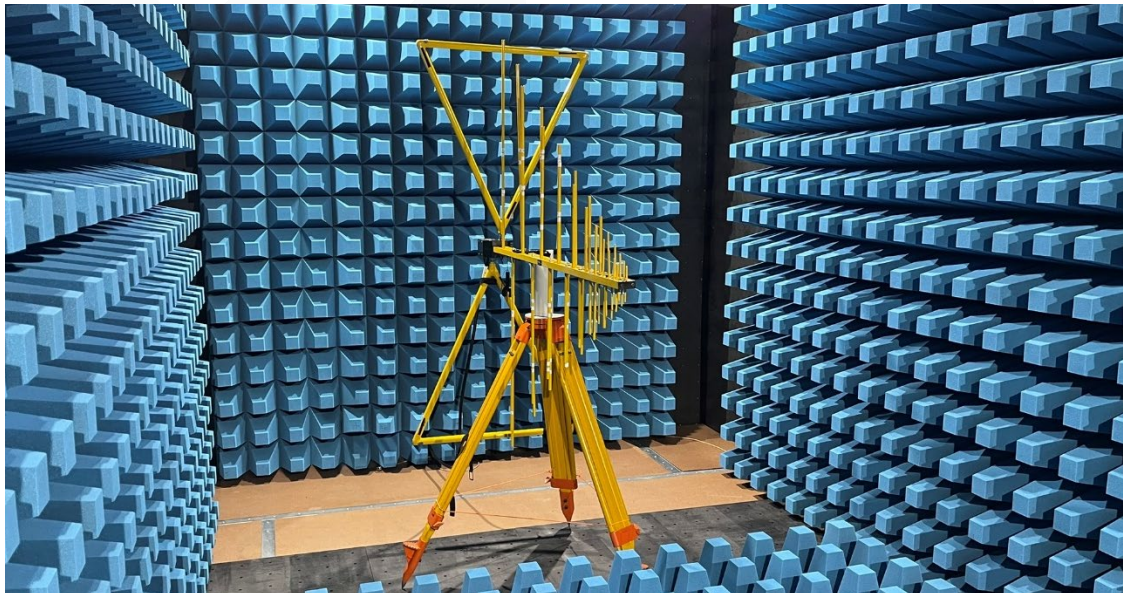
Our Services

Comprehensive EMC testing and compliance solutions to help your products meet essential regulations.

1. EMC Compliance

Full suite of emissions and immunity testing to determine product compliance with qualified technician and engineering support. Our engineers provide troubleshooting and practical recommendations to address EMC failures. We can analyse the root causes, suggest targeted design modifications, and guide you through re-testing. For more complex issues, our design consultancy service offers in-depth support to improve EMC performance and compliance.

GBM can offer OATS (Open Area Test Site) EMC compliance testing. This is useful for large equipment or where it is impractical to move the equipment.



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2. Safety Compliance

Product compliance includes ensuring your product is safe for use, servicing, and maintenance. We can offer safety evaluations, technical file reviews, and standards selection guidance for regulatory compliance to ensure your product complies with the safety regulations that cover CE and UKCA marking.

3. Design Consultancy

The team at GBM are expertly versed in electronics product design. The GB Technology Group, which includes GBM, comes from a design background and has developed procedures and techniques in hardware, software, and firmware stages to achieve compliance with expert consultancy.

4. Industries

GBM brings over 20 years of industry experience that METECC and GBE offer into one company. The team has extensive experience across a multitude of industries. This includes early prototype, production and re-certification stages.

5. End-to-End Support

From early design guidance to final compliance, plus risk assessment and technical file documentation, we support your entire journey.



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How Can We Help You?

Whether you have questions about our services, need assistance with EMC compliance, or want to discuss your specific project requirements, our team is here to help.

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