

Emissions Testing for Information Technology Equipment – EN 55022:2006 and Requirements for Measurements above 1 GHz

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As previously reported on this topic, manufacturers of Information Technology Equipment (ITE) intended for sale in the European Union should take note of some important changes that are slated to go into effect with regard to their EMC testing requirements under emissions standard EN55022:2006. In November 2008 the European Union's Official Journal (OJ) published lists of standards for the Electromagnetic Compatibility (EMC) Directive and Radio and Telecommunications Terminal Equipment Directive (R&TTED). Both lists include references to EN 55022:2006 and its amendment A1, released in 2007.

EN 55022:2006 and its amendment A1 will supersede EN 55022:1998 and its amendments A1:2000 and A2:2003 and become the requirement for Information Technology Equipment (ITE) sold into the European Union.

What has changed since our last article are the dates when the 1998 version plus amendments can no longer be used and when testing above 1GHz will become mandatory. Previously, these dates were October 1, 2009¹, and October 1, 2010². The EU, in a decision dated August 21, 2009 has changed both these dates to October 1, 2011.

Based on our interpretation of the Official Journal's text manufacturers may use any of the following three versions of the standard until October 1, 2011 when declaring compliance against either the RTTE or EMC Directives:

- EN 55022:1998 + A1 + A2
- EN 55022:2006
- EN 55022:2006 + A1

After this date, declarations must be to EN 55022:2006 and amendment A1:2007.

CISPR 22 – Measurements Above 1GHz

As a reminder, amendment A1 to EN 55022:2006 added requirements for radiated emission tests from 1-6 GHz. In the previous article on this subject, we detailed the limits and requirements found in amendment A1.

It should be noted that the VCCI in Japan has stated, "We are also aware of EU one year delay. It will be a subject for us to discuss but at this moment, we have no intention to delay our deadline to match Europe." At this time we believe that testing above 1GHz will be required for Japan beginning October 1, 2010.

¹Until October 1, 2009 suppliers had the choice of declaring compliance with either EN 55022:1998 (with or without its amendments) or EN 55022:2006 (with or without amendment A1).

²Between October 1, 2009 and October 1, 2010, suppliers had the choice of declaring compliance with EN 55022:2006 (with or without amendment A1).

Conclusion

Hopefully this article clarifies what has changed and what steps you need to take to ensure compliance of your ITE products with the European Directives today and beyond the October 2011 implementation date.

Elliott Laboratories is currently equipped to conduct the EU free space testing above 1 GHz per EN55022:2006 + A1 and/or CISPR 22:2005 + A1 in all emissions chambers at our Fremont facility. For more information about how this change affects your products or for a price quote to test your product, please contact us at info@elliottlabs.com or call at 408-245-7800.

Reference:

To read our previous article on EN 55022:2006 and Requirements for Measurements above 1 GHz, [click here](#).

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