

## Notified Body for New EMC and Radio Equipment Directives

BACL is proud to announce that we are now a recognized Notified Body for the new EMC (2014/30/EU) and Radio Equipment (2014/53/EU) Directives!

[NANDO EMCD NB LIST](#)  
[NANDO RED NB LIST](#)

The new EMC Directive (2014/30/EU) came into effect April 20, 2016 with no transition period from the old directive, meaning the old EMC Directive is no longer valid and only the New EMC Directive may be used on applicable products.

The Radio Equipment Directive (2014/53/EU) became effective on June 13, 2016 with a ONE YEAR transition period. Therefore, the R&TTE Directive will no longer be valid as of June 12, 2017.

### INFORMATION TO MANUFACTURERS

- An NB MUST be used under both directives when all applicable harmonized standards are not fully applied (Module B)
- If all applicable harmonized standards are applied, then there is a “presumption of conformity”, and the manufacture follows Module A.

### Conformity Assessment Module A:

The Manufacturer performs test and reports for the device, prepares all Technical Documentation, affixes the CE marking to each unit, makes a DoC and keep a copy of the DoC and all Technical material.

### Conformity Assessment Module B:

The NB shall review the technical documents and make an evaluation report that records the activities done. Where the type meets the requirements, the NB shall issue an EU-type examination certificate to the manufacturer.

### Official Journals of Harmonised Standards:

[RTTED - 1999-5-EC - Harmonized Standards - C 249](#)

[RED - 2014-53-EU - Harmonized Standards - C 381](#)

[EMCD - 2014/30/EU - Harmonized Standards – C014](#)

Please contact the AE department to find out whether your product needs an EU-type Examination Certificate or a Presumption of Conformity for the European market at [sales@baclcorp.com](mailto:sales@baclcorp.com).



## Regulatory Changes

### ISED Canada

ISED recently released Issue 9 of RSS-210 for Licence-Exempt Radio Apparatus: Category I Equipment. 6 months of transition period is granted after the date of publication.

### EU – Radio Equipment Directive

4 new harmonized standards for Radio Equipment Directive (RED) have been published in the latest RED Official Journal (OJ) release. As of today, total of 12 harmonized standards are listed in RED OJ. Contact the AE department to find out whether your product needs an EU-type Examination Certificate or a Presumption of Conformity.

### NCC Taiwan

NCC technical regulations and test requirements LP0002 for Low-power Radio-frequency Devices was revised on August 23rd, 2016. Starting from November 1st, 2016, all submissions must be in compliance with the new rule. Applications in accordance with previous version of the standard will not be accepted. Currently, English version of the standard has not been published.

Our **BACL Taiwan** facility is fully capable of testing many different kinds of ITE and Radio Equipment technologies including Mobile 2G/2.5G/3G /3.5G/4G, Zigbee, Broadband Power Line Network

Systems, Wi-Fi (IEEE802.11a/b/n/ac Wireless LAN,) Bluetooth Products, RFID Systems, and Short-range Wireless Devices.

**BACL Taiwan's** Test lab features 2 Semi-Anechoic chambers as well as multiple shielding and RS rooms which enable performing Radiated and Conducted Emissions, Harmonic Current Emissions, Voltage Fluctuations and Flicker, SAR and DFS testing.

**BACL Taiwan** is located in Taipei City, and is an accredited Testing Lab by TAF (No. 3180) for BSMI and NCC. **BACL Taiwan** is also a 2.948 Listed Test Firm for the FCC (No. TW1101).

Please contact the AE department for detailed information.

### **FCC adopts mmWave Rules above 24 GHz**

The Federal Communications Commission adopted rules for specific millimeter wave (mmW) bands above 24 GHz. This action is undertaken to establish a regulatory framework for the use of these bands for the development of the next generational evolution of wireless technology. Once effective, these rules will promote the development of highly beneficial technologies, in particular the so-called 5G technology.

The effective date is December 14, 2016, except for Sec. 25.136 and 30.8 which contain information collection requirements that are not effective until approved by the Office of Management and Budget. The FCC will publish a document in the Federal Register announcing the effective date for those sections.

### **October 2016 TCB Council Meeting – BACL presents!**

At the most recent meeting of the FCC TCB Council in Baltimore, Maryland this past October, BACL's Chief Engineer, Harry H. Hodes, gave a presentation on the results of formal experiments performed in support of a possible adoption of a variant of the Van Veen Loop Test Method into a new Standard (i.e., ANSI C63.30 for the testing of Wireless Power Transfer [WPT] Devices) being developed at the request of both the FCC and ISED Canada.

WPT devices are regulated by the FCC under 47 CFR Part 18. In the USA, the current Test Method applicable to all ISM devices is FCC OST MP-5:1986. This 30 year old "one method fits all kinds of EUTs" Standard is long overdue for replacement. In particular, the variant of the Van Veen Loop Test Method that is under consideration for use as partial replacement for the existing MP-5 Test Method would be applicable to the compliance testing

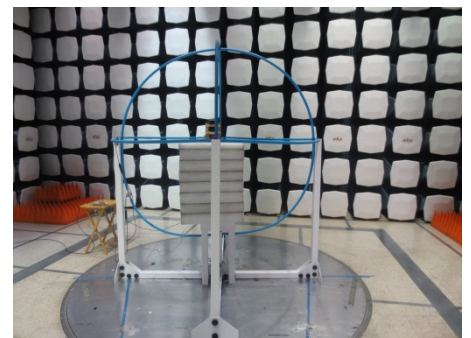
of close-proximity WPT devices (such as wireless battery charges for cellular phones and similar uses).

The variant of the Van Veen Loop Test Method that is proposed would involve 3-axis magnetic current measurements of an EUT made in a 2 m Diameter Van Veen Loop; the extrapolation of those magnetic current measurements to magnetic field strengths at a 3 m distance, and the use of a far less conservative (and therefore, more realistic) scaling of the current FCC Limits from 300 m to 3 m.

The presentation detailed the results of measurements made on:

- Ambient magnetic current levels induced into a 2 m diameter Van Veen Loop located both outside and inside the BACL 10 m Semi-Anechoic Chamber;
- Magnetic Current Emissions measurements made (using the same 2 m diameter Van Veen Loop located inside the BACL 10 m Semi-Anechoic Chamber) on the so-called PMA Artifact which was used to bulk charge an Android Cell Phone;
- Extrapolations of those Magnetic Current Emissions measurements to Magnetic Field Strengths at 3 m distance inside the BACL 10 m 10 m Semi-Anechoic Chamber;
- Magnetic Field Strength measurements (made using a Single-Axis Active 57 cm diameter Magnetic Loop Antenna) taken at 3 m distance inside the BACL 10 m 10 m Semi-Anechoic Chamber on the same PMA Artifact which was used to bulk charge an Android Cell Phone; and,
- A comparison of the results obtained between the variant of the Van Veen Loop Test Method and the Single-Axis Active 57 cm diameter Magnetic Loop Antenna.

For more information consult Harry H. Hodes, NCE, our Chief Engineer, at [harry.hodes@baclcorp.com](mailto:harry.hodes@baclcorp.com)



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## International Approval at BACL

BACL has recently expanded our International Approval/ Homologation Department in order to better serve our customers with desire to move into foreign markets.

Our wide network of vendors allows us to fully satisfy all of our customers international needs while also maintaining our high level of quality for in-house projects.

