

**RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE**

**Revision to HKCA 1039 Performance Specification  
for Radiocommunications Apparatus  
Operating in the 2.4 GHz or 5 GHz Band  
and Employing Frequency Hopping or Digital Modulation**

**Introduction**

This paper proposes the adoption of the following revised HKCA specification:

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| HKCA 1039<br>Issue 5 | Performance specification for radiocommunications apparatus operating in the 2.4 GHz or 5 GHz band and employing frequency hopping or digital modulation |
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**Current Situation**

2. HKCA 1039 sets out the conformance specification of radio apparatus in the 2.4 GHz and 5 GHz bands which include cordless telephone, Bluetooth device, wireless local area network (WLAN) and other short range devices. It stipulates the technical and evaluation requirements for apparatus in each frequency band. Over the years, HKCA 1039 has been revised to include new frequency bands and evaluation requirements in the light of emerging international standards.

**Proposed Revision to HKCA 1039**

3. The current version of HKCA 1039 covers the frequency bands 2.400 – 2.4835 GHz, 5.150 – 5.350 GHz, 5.470 – 5.725 GHz and 5.725 – 5.850 GHz. For WLAN apparatus operating in frequency band 5.725 – 5.850 GHz band, the conformance evaluation is based on Code of Federal Regulations (USA), FCC Part 15 Section 15.247. On the other hand, the European Telecommunications Standards Institute (ETSI) has published a harmonized standard covering conformance test specification for WLAN apparatus operating in frequency

band 5.725 – 5.850 GHz. The full title of the harmonized standard is as follows :

ETSI EN 302 502  
Broadband Radio Access Networks (BRAN);  
5.8 GHz fixed broadband data transmitting systems;  
Harmonized EN covering essential requirements of article 3.2 of the  
R&TTE Directive

To facilitate the use of those WLAN apparatus originally designed for the European market in Hong Kong, there is a need to update HKCA 1039 specification to include the conformance test aspects of ETSI EN 302 502. In this manner, test reports evaluated against ETSI EN 302 502 can then be accepted for certification of WLAN equipment in the 5.725 – 5.850 GHz band.

### **WTO Notification**

5. As the proposed Issue 5 of HKCA 1039 is based on an open standard, notification to the World Trade Organisation (WTO) is not necessary.

### **Recommendation**

6. It is recommended that Issue 5 of HKCA 1039 in the Annex be adopted by the CA.

### **Advice Sought**

7. Members are invited to give comments on the recommendation above.

**Office of the Communications Authority**  
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