

RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE

**Proposed Performance Specification for
Radio Transmitting Equipment Operating in the 678 – 686 MHz Band
for the Provision of Broadcast-Type Mobile Television Services
Employing DVB-T2 Standard**

Purpose

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

HKCA 1079 Issue 1	Performance Specification for Radio Transmitting Equipment Operating in the 678 – 686 MHz Band for the Provision of Broadcast-Type Mobile Television Services Employing DVB-T2 Standard
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Background

2. Hong Kong Mobile Television Network Limited (“HKMTV”) is holding the Unified Carrier Licence (no. 041) (“Mobile TV Licence”) for the provision of broadcast-type mobile television services (“Mobile TV Services”) using the assigned spectrum in the 678 – 686 MHz band. On 13 July 2017, the Communications Authority (“CA”) approved HKMTV’s application for change of the transmission standard from the original China Mobile Multimedia Broadcasting (“CMMB”) standard to the T2 Lite profile under the Digital Video Broadcasting – Terrestrial 2 (version 1.3.1 or a later version) standard (hereafter referred to as the “DVB-T2 Standard”), subject to the imposition of certain new licence conditions in the Mobile TV Licence. The new licence conditions require that, among others, HKMTV shall only use those technical parameters

of the DVB-T2 Standard as stipulated in Schedule 3 of the Mobile TV Licence¹.

3. To facilitate the service rollout by HKMTV and ensure its co-existence with the existing terrestrial TV services operating in UHF band, a new HKCA specification shall be developed concerning electromagnetic compatibility of radio transmitting equipment operating in the 678 – 686 MHz band for the provision of broadcast-type Mobile TV Services employing the DVB-T2 Standard.

Proposed HKCA 1079 Specification

4. The European Telecommunications Standards Institute (“ETSI”) has published a harmonised standard EN 302 296-2² governing the electromagnetic compatibility, including out-of-band and spurious emissions of radio transmitting equipment employing DVB-T2 standard. Having considered the technical requirements in EN 302 296-2, it is proposed that this standard be adopted in the proposed specification HKCA 1079 for certification of radio transmitting equipment operating in the 678 – 686 MHz band for the provision of broadcast-type Mobile TV Services employing the DVB-T2 Standard.

Certification Requirement

5. In line with the arrangement of radio stations used in public telecommunications services, it is proposed that radio transmitting equipment covered by the proposed HKCA 1079 specification be classified under the Compulsory Certification Scheme of the Hong Kong Telecommunications Equipment Evaluation and Certification Scheme. Such radio equipment must be type approved against HKCA 1079 before they can be used in Hong Kong.

¹ The Mobile TV Licence is published at:
http://www.coms-auth.hk/filemanager/common/licensing/lic_dir/ca_lic/lic/ucl_041.pdf

² EN 302 296-2 V1.2.1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Transmitting equipment for the digital television broadcast service, Terrestrial (DVB-T); Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive” published by European Telecommunications Standards Institute (ETSI)

WTO Notification

6. As the proposed HKCA 1079 is based on an open standard, notification to the World Trade Organisation (“WTO”) is not required.

Recommendation

7. It is recommended that the proposed HKCA 1079 as given in Annex be submitted to the CA for adoption.

Advice Sought

8. Members are invited to give their comments on the recommendation above.

Office of the Communications Authority
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