



United Arab Emirates



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# TECHNICAL SPECIFICATION

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## Analogue Private Mobile Radio (PMR) Equipment

Version 1.0

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Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

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## 1. Scope

This specification lists the technical requirements applicable to the following types of radio equipment:

GSM Base Stations and ancillary equipment

## 2. Definitions

Unless the context requires otherwise, the expressions and wordings appearing in Federal Law by Decree No. (3) of 2003 Regarding the Organisation of the Telecommunications Sector shall have the same meaning ascribed thereto in the above-mentioned Federal Law by Decree, and the following expression and wording shall have the following meanings assigned thereto:

<b>ANSI</b>	American National Standards Institute <sup>1</sup>
<b>CENELEC</b>	European Committee for Electro-technical Standardisation <sup>2</sup>
<b>CISPR</b>	International Special Committee for Radio Interference <sup>3</sup>
<b>IEC</b>	International Electro-technical Commission <sup>4</sup>
<b>ITU</b>	International Telecommunications Union <sup>5</sup>
<b>ETSI</b>	European Telecommunications Standards Institute <sup>6</sup>

<sup>1</sup> ANSI standards can be obtained from, <http://webstore.ansi.org>

<sup>2</sup> CENELEC standards can be obtained from, [www.cenelec.org](http://www.cenelec.org)

<sup>3</sup> CISPR standards can be obtained from, [www.cenelec.org](http://www.cenelec.org)

<sup>4</sup> IEC standards can be obtained from, [www.iec.ch](http://www.iec.ch)

<sup>5</sup> ITU standards can be obtained from, [www.itu.int](http://www.itu.int)

<sup>6</sup> ETSI standards can be obtained from, [www.etsi.org](http://www.etsi.org)



### 3. Spectrum Allocations

The following frequency bands are allocated for use by radio equipment falling within the scope of this specification:

- 138 – 174 MHz (VHF)
- 400 – 470 MHz (UHF)

**Note:** Frequency allocations can change and this information should be checked with TRA Spectrum Affairs department.

### 4. Technical Requirements

#### General

All equipment shall comply with TRA specification TS001 concerning safety and EMC performance.

#### Specific

Unless stated otherwise below, the latest published versions of the following standards shall apply:

**ETSI EN 300 086-2** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**ETSI EN 300 113-2** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna



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connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**ETSI ETS 300 296-2** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**ETSI EN 300 390-2** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio Equipment intended for the transmission of data (and speech) and using an integral antenna. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**ETSI EN 300 471-2** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Access protocol, occupation rules and corresponding technical characteristics of radio equipment for the transmission of data on shared channels. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**ETSI EN 301 489-1** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements



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- ETSI EN 301 489-5** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)
- ETSI EN 301 166-2** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment for analogue and/or digital communication (speech and/or data) and operating on narrow band channels and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- ETSI EN 300 793** Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Presentation of equipment for type testing
- ANSI/TIA/EIA 603 (specific to US originated equipment only)**  
Land mobile FM or PM communication equipment, measurement and performance standard
- MPT 1327** A signalling standard for Trunked Private Land Mobile Radio Systems