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# TECHNICAL SPECIFICATION

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## Requirements for Animal Implantable Devices

TS RE 039, Version 1.0

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TS RE 039, Version 1.0

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### TABLE OF CONTENTS

<b>1</b>	<b>GENERAL REQUIREMENTS</b> .....	<b>3</b>
<b>2</b>	<b>SCOPE</b> .....	<b>3</b>
<b>3</b>	<b>TECHNICAL REQUIREMENTS</b> .....	<b>3</b>
3.1	EFFICIENT USE OF RADIO SPECTRUM.....	3
3.2	ELECTROMAGNETIC COMPATIBILITY.....	4
3.3	HEALTH AND SAFETY .....	4
3.4	ADDITIONAL ESSENTIAL REQUIREMENTS .....	4
3.5	VALIDITY OF STANDARDS .....	5

TS RE 039, Version 1.0

## 1 General requirements

Technical specification has been prepared and approved by the Telecommunications Regulatory Authority (TDRA) based on the Telecommunication apparatus Type Approval Regime.

Several technical specifications may apply to the equipment. If equipment within the scope of this technical specification also incorporates functions that are covered by another technical specification, the relevant technical specification is applied to each function separately. The influence of one function on the other is taken into account.

## 2 Scope

This technical specification applies to Animal Implantable Devices.

This technical specification defines minimum technical requirements for health and safety, electromagnetic compatibility, efficient use of radio spectrum and additional essential requirements based on the Telecommunication apparatus Type Approval Regime.

Unless the context requires otherwise, the expressions and wordings appearing in the Telecommunication apparatus Type Approval Regime shall have the same meaning described thereto.

## 3 Technical Requirements

### 3.1 Efficient use of radio spectrum

The equipment shall comply with prescribed frequency bands given in the National Frequency Allocation Table (NFAT), UAE 9.

The equipment shall meet the requirements of following standard(s):

EN 300 330-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under Article 3(2) of the R&TTE directive.

TS RE 039, Version 1.0

EN 302 536-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 315 kHz to 600 kHz; Part 2: Harmonized EN covering essential requirements of article 3(2) of the R&TTE directive.

### **3.2 Electromagnetic compatibility**

The equipment shall meet the requirements of following standard(s):

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.

EN 301 489-27 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P).

EN 301 489-31 Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 31: EMC for radio equipment in the 9 to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P).

### **3.3 Health and safety**

The equipment shall meet the requirements of Technical specification TS HS 001.

### **3.4 Additional essential requirements**

No additional requirements.

TS RE 039, Version 1.0

### 3.5 Validity of standards

If no issue or revision number is quoted along with the title of a standard, the valid edition should be used. The valid of the standard can be checked on:

- For EN standards:

[http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rte/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rte/index_en.htm);