



Variant RF Exposure Evaluation Report

APPLICANT : Universal Scientific Industrial Co., Ltd.
EQUIPMENT : UNA_900
BRAND NAME : Universal Global Scientific Industrial Co., Ltd.
MODEL NAME / MARKETING NAME : UNA_900
FCC ID : IXM-UNA900
FILING TYPE : Certification
STANDARD : OET Bulletin 65 Supplement C (Edition 01-01)

This is a variant report which is only valid together with the original test report. We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with FCC OET Bulletin 65 Supplement C (Edition 01-01), and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



Table of Contents

REVISION HISTORY.....	3
1. RF EXPOSURE INTRODUCTION.....	4
2. ADMINISTRATION DATA	6
2.1 Testing Laboratory	6
2.2 Applicant	6
2.3 Manufacturer.....	6
3. GENERAL INFORMATION	7
3.1 Description of Device Under Test (DUT)	7

Appendix A. Product Equality Declaration

Appendix B. Original Report



Revision History



1. RF Exposure Introduction

Requirements

Three different categories of transmitters are defined by the FCC in OET Bulletin 65. These categories are fixed installation, mobile and portable and are defined as follows:

- Fixed installation:**

Fixed location means that the device, including its antenna, is physically secured at a permanent location and is not able to be easily moved to another location. Additionally, distance to humans from the antenna is maintained to at least 2 meters.

- Mobile Devices:**

A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitters's radiating structures and the body of the user or nearby persons. Transmitters designed to be used by consumers or workers that can be easily re-located are considered mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are found in 47 CFR 2.1091.

- Portable Devices:**

A portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in Section 2.1093 of the FCC's Rules (47 CFR 2.1093)



The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/Controlled Exposure and General Population/Uncontrolled Exposure. These two categories are defined as follows:

▪ Occupational/controlled Exposure:

In general, occupational/controlled exposure limits are applicable to situation in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure. Awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to establish such awareness by providing prominent information on the risk of potential exposure and instructions on methods to minimize such exposure risks.

▪ General Population/Uncontrolled Exposure:

The general population / uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category and the general population/uncontrolled exposure limits apply to these devices.



2. Administration Data

2.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978

2.2 Applicant

Company Name	Universal Scientific Industrial Co., Ltd.
Address	141, Lane 351, Taiping Road, Sec. 1, Tsao Tuen, Nan-Tou, Taiwan

2.3 Manufacturer

Company Name	Universal Scientific Industrial Co., Ltd.
Address	141, Lane 351, Taiping Road, Sec. 1, Tsao Tuen, Nan-Tou, Taiwan



3. General Information

3.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	UNA_900
Brand Name	Universal Global Scientific Industrial Co., Ltd.
Model Name / Marketing Name	UNA_900
FCC ID	IXM-UNA900
Tx Frequency	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz
HW Version	V2.3
SW Version	V3.1a
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK
DUT Stage	Identical Prototype

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



Appendix A. Product Equality Declaration

The plots are shown as follows.



Appendix B. Original Report

Please refer to Sporton report number FA231721 as below.