



# RF EXPOSURE REPORT

**REPORT NO.:** SA980331H02

**MODEL NO.:** 8002R, FD-30

**FCC ID:** MQT-FD30

**ACCORDING:** FCC Guidelines for Human Exposure  
IEEE C95.1

**APPLICANT:** XAC AUTOMATION CORP.

**ADDRESS:** 4F, No. 30, INDUSTRY E. RD. IX,  
SCIENCE-BASED INDUSTRIAL  
PARK,HSINCHU,TAIWAN

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB LOCATION:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung  
Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien  
307, Taiwan

# RF Exposure Measurement

## 1. Introduction

In this document, we try to prove the safety of radiation harmfulness to the human body for our product. The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed.

## 2. RF Exposure Limit

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b)

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
<b>(A)Limits For Occupational / Control Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	...	...	f/300	6
1500-100,000	...	...	5	6
<b>(B)Limits For General Population / Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz

### 3. EUT Operating condition

The software provided by Manufacturer enabled the EUT to transmit and receive data at the operating channel.

### 4. Classification

This device is classified as **General Population/Uncontrolled Device**.

## 5. Output Power & RF Exposure value:

### For RJ-45 to USB cable Mode:

Channel Frequency (MHz)	Electric field (dBuV/m)	Electric field (V/m)	Limit of Electric field (V/m)
13.56	72.1	0.0040	60.77

Note: Limit of Electric field=824/f

### For RJ-45 to RJ12 cable Mode:

Channel Frequency (MHz)	Electric field (dBuV/m)	Electric field (V/m)	Limit of Electric field (V/m)
13.56	73.00	0.0045	60.77

Note: Limit of Electric field=824/f