

## RF Exposure Report

**Report No.:** SA140205E02B

**FCC ID:** MCLT77H519

**Test Model:** T77H519

**Received Date:** Feb. 05, 2014

**Test Date:** Sep. 18, 2015

**Issued Date:** Nov. 18, 2015

**Applicant:** Hon Hai PRECISION IND.CO.,LTD

**Address:** 5F-1, Hsin-An Road, Hsinchu, Science Industrial Park, Taiwan,  
R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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**Test Location (1):** No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin  
Chu Hsien 307, Taiwan R.O.C.

**Test Location (2):** No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin  
Chu Hsien 307, Taiwan R.O.C.

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### Release Control Record

Issue No.	Description	Date Issued
SA140205E02B	Original release.	Nov. 18, 2015

## 1 Certificate of Conformity

**Product:** NFC Module

**Brand:** FOXCONN

**Test Model:** T77H519

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Hon Hai PRECISION IND.CO.,LTD

**Test Date:** Sep. 18, 2015


**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** Nov. 18, 2015  
Elsie Hsu / Specialist

**Approved by :**  , **Date:** Nov. 18, 2015  
May Chen / Manager

## 2 RF Exposure

### 2.1 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)
Limits For General Population / Uncontrolled Exposure				
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

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

### 2.4 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Antenna No	Brand	Model	Antenna Type	Gain(dBi)	Frequency Range (MHz to MHz)	Antenna Connector	Cable Length(mm)
1	Dexerials	ANT-T006E	PCB	NA	13.56	ACHR-02V-K	61
2	Dexerials	ANT-M031A	PCB	NA	13.56	ACHR-02V-K(HF)	40

## 2.5 Calculation Result of Maximum Conducted Power

Channel Frequency (MHz)	Electric field (dBuV/m) @3m	Electric field (V/m)	Limit of Electric field (V/m)
13.56	54.29	0.116547	60.76

Note: Limit of Electric field=824/f

**Electric field**      =54.29dBuV/m                      3m  
                               =54.29+20log(3/0.2)<sup>2</sup>                      0.2m  
                               =101.33 dBuV/m                                      0.2m  
                               = 116547uV/m                                        0.2m  
                               = 0.116547V/m                                        0.2m

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