RF Exposure Report

Report No.: SA160629E05

FCC ID: MCLT77H747

Test Model: T77H747

Received Date: June 29, 2016

Test Date: Aug. 12, 2016

Issued Date: Aug. 26, 2016

Applicant: HON HAI PRECISION IND. CO., LTD.

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

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
SA160629E05	Original release.	Aug. 26, 2016

1 Certificate of Conformity

Product:	NFC module
Brand:	FOXCONN
Test Model:	T77H747
Sample Status:	ENGINEERING SAMPLE
Applicant:	HON HAI PRECISION IND. CO., LTD.
Test Date:	Aug. 12, 2016
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

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:** Aug. 26, 2016

Midoli Peng / Specialist

Approved by : _____ , **Date:** Aug. 26, 2016

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^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
1.34-30	824/f	2.19/f	*($180/f^2$)	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

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = 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 Gain(dBi)	Frequency range (MHz)	Antenna Type	Connecter Type
1	SAA	LX8416-12-000-C	NA	13.56	PCB	ACH connector (with 1.2mm pitch)
2	Dexerials	ANT-M041A	NA	13.56	PCB	ACH connector (with 1.2mm pitch)
3	Dexerials	ANT-M043A	NA	13.56	PCB	ACH connector (with 1.2mm pitch)
4	Dexerials	ANT-M047A	NA	13.56	PCB	ACH connector (with 1.2mm pitch)
5	SAA	LX7828-12-000-C	NA	13.56	PCB	ACH connector (with 1.2mm pitch)

Note: 1: Antenna 3, the worse case one (for max field strength), was chosen for final test.
2: Antenna 5, the worse case one (for min field strength), was chosen for final test.

2.5 Calculation Result

Freq. (MHz)	Electric field (dBuV/m)@3m	Pout EIRP (dBm)	Pout EIRP (mW)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Pass /Fail
13.56	60.6	-34.63	0.0003443	0.000000068	0.97893335	PASS

NOTE:

Pout EIRP (dBm) = Field Strength Of Fundamental (dBuV/m) - 95.23 (dB)

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