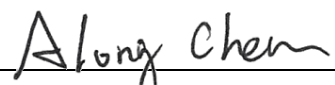


FCC RF Exposure Report

FCC ID : 2ARU9NEPHUBL001
Equipment : Neptune IoT Hub Lite
Model No. : HM-HUB-120
Brand Name : HOMA
Applicant : HOMA Technologies JSC
Address : Building 5, 13th Street, QTSC Tan Chanh Hiep
Ward, District 12, Ho Chi Minh city, 729226,
Vietnam.
Standard : 47 CFR FCC Part 2.1091
Received Date : Nov. 09, 2018
Tested Date : Nov. 23 ~ Dec. 27, 2018

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

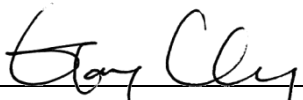

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FA8N0901	Rev. 01	Initial issue	Feb. 15, 2019

1 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 24 cm or more from persons.

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm ²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 Deviation from Test Standard and Measurement Procedure

None

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Parameters	Uncertainty
Conducted power	±0.808 dB

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared values of gain for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the gain.

1.5 MPE EVALUATION RESULTS

Non-beamforming mode

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio*	Pass / Fail
2400~2483.5 (Zigbee)	19.42	19.5	2.62	24	0.023	1	0.023	Pass
2412~2462 (Wi-Fi)	27.35	27.5	2.22	24	0.130	1	0.130	Pass
5150~5250 (Wi-Fi)	27.38	27.5	3.01	24	0.155	1	0.155	Pass
5250~5350 (Wi-Fi)	23.59	24	3.01	24	0.069	1	0.069	Pass
5470~5725 (Wi-Fi)	23.46	23.5	6.07	24	0.125	1	0.125	Pass
5725~5850 (Wi-Fi)	27.24	27.5	6.07	24	0.314	1	0.314	Pass

*Ratio = Power density / Limit.

Beamforming mode

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio*	Pass / Fail
5150~5250 (Wi-Fi)	26.92	27	5.48	24	0.245	1	0.245	Pass
5250~5350 (Wi-Fi)	23.56	24	5.48	24	0.123	1	0.123	Pass
5470~5725 (Wi-Fi)	19.36	19.5	10.34	24	0.133	1	0.133	Pass
5725~5850 (Wi-Fi)	25.64	26	10.34	24	0.595	1	0.595	Pass

*Ratio = Power density / Limit.

1.6 MPE Evaluation of Simultaneous Transmission

Mode	Max Ratio of Each Mode
Zigbee	0.023
2.4 GHz Wi-Fi	0.130
Wi-Fi 5.15 ~ 5.35 GHz	0.245
Wi-Fi 5.47 ~ 5.85 GHz	0.595
Sum	0.991
Limit	1
Pass / Fail	Pass

2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==