

RF Exposure Report

Report No.: SA170217C15

FCC ID: H8NSS2FHI

Test Model: SS2FHI Femtocell Multi-band SOHO

Received Date: Feb. 17, 2017

Test Date: Feb. 22 ~ Apr. 17, 2017

Issued Date: May 18, 2017

Applicant: ASKEY COMPUTER CORP.

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Release Control Record

Issue No.	Description	Date Issued
SA170217C15	Original release	May 18, 2017

1 Certificate of Conformity

Product: Femtocell

Brand: Nokia

Test Model: SS2FHI Femtocell Multi-band SOHO

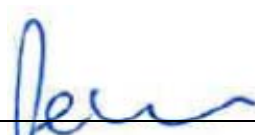
Sample Status: Engineering sample

Applicant: ASKEY COMPUTER CORP.

Test Date: Feb. 22 ~ Apr. 17, 2017

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 (October 23, 2015)
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:** May 18, 2017
Pettie Chen / Senior Specialist

Approved by :  , **Date:** May 18, 2017
Ken Liu / Senior 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/cm²

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**.

3 Calculation Result of Maximum Conducted Power

Mode	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Single Mode				
WCDMA Band 2	23.2	20	0.042	1
LTE Band 2	29.1	20	0.162	1
LTE Band 7	28.8	20	0.151	1
CA Mode				
Mode 1: LTE Band 2 (Channel Bandwidth: 5MHz) + LTE Band 7 (Channel Bandwidth: 5MHz)				
LTE Band 2	25.3	20	0.067	1
LTE Band 7	29.5	20	0.177	1
Mode 2: LTE Band 2 (Channel Bandwidth: 10MHz) + LTE Band 7 (Channel Bandwidth: 10MHz)				
LTE Band 2	27.7	20	0.117	1
LTE Band 7	28.1	20	0.128	1
Mode 3: LTE Band 2 (Channel Bandwidth: 20MHz) + LTE Band 7 (Channel Bandwidth: 20MHz)				
LTE Band 2	27.5	20	0.112	1
LTE Band 7	28.0	20	0.126	1

CONCLUSION:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

Single Mode: WCDMA Band 2+ LTE Band 7 = $0.042+0.151=0.192$

CA Mode:

Mode 1: LTE Band 2 (Channel Bandwidth: 5MHz) + LTE Band 7 (Channel Bandwidth: 5MHz)

= $0.067+0.177=0.244$

Mode 2: LTE Band 2 (Channel Bandwidth: 10MHz) + LTE Band 7 (Channel Bandwidth: 10MHz)

= $0.117+0.128=0.245$

Mode 3: LTE Band 2 (Channel Bandwidth: 20MHz) + LTE Band 7 (Channel Bandwidth: 20MHz)

= $0.112+0.126=0.238$

Therefore, the maximum calculation of this situation is 0.245, which is less than the "1" limit.

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