

RF Exposure Report

Report No.: SA170208C16A

FCC ID: H8NSS2FII

Test Model: SS2FII Femtocell Multi-band SOHO

Received Date: Feb. 08, 2017

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

Issued Date: Apr. 24, 2017

Applicant: ASKEY COMPUTER CORP.

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Release Control Record				
Issue No.	Description			Date Issued
SA170208C16A	Original release			Apr. 24, 2017
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Report No.: SA1702080 Reference No.: 170208	C16A C16, 170217C03	Page No. 3 / 6	Repo	rt Format Version: 6.1.1

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1 Certificate of Conformity Product: Femtocell Brand: Nokia Test Model: SS2FII 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 :	Pettie Chen / Senior Specialist	, Date:	Apr. 24, 2017
Approved by :	Ken Liu / Senior Manager	, Date:	Apr. 24, 2017



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**.



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 4	27.6	20	0.114	1	
CA Mode					
Mode 1: LTE Band 2 (Channel Bandwidth: 5MHz) + LTE Band 4 (Channel Bandwidth: 5MHz)					
LTE Band 2	27.9	20	0.123	1	
LTE Band 4	27.5	20	0.112	1	
Mode 2: LTE Band 2 (Channel Bandwidth: 10MHz) + LTE Band 4 (Channel Bandwidth: 10MHz)					
LTE Band 2	26.2	20	0.083	1	
LTE Band 4	27.7	20	0.117	1	
Mode 3: LTE Band 2 (Channel Bandwidth: 20MHz) + LTE Band 4 (Channel Bandwidth: 20MHz)					
LTE Band 2	26.9	20	0.097	1	
LTE Band 4	27.5	20	0.112	1	

3 Calculation Result of Maximum Conducted Power

CONCULSION:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Single Mode: WCDMA Band 2+ LTE Band 4 (Channel Bandwidth: 5MHz) = 0.042+0.114 = 0.156 CA Mode: Mode 1: LTE Band 2 (Channel Bandwidth: 5MHz) + LTE Band 4 (Channel Bandwidth: 5MHz) = 0.123+0.112=0.235 Mode 2: LTE Band 2 (Channel Bandwidth: 10MHz) + LTE Band 4 (Channel Bandwidth: 10MHz) =0.083+0.117=0.200 Mode 3: LTE Band 2 (Channel Bandwidth: 20MHz) + LTE Band 4 (Channel Bandwidth: 20MHz) =0.097+0.112=0.209

Therefore, the maximum calculation of this situation is 0.420, which is less than the "1" limit.

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