

RF EXPOSURE REPORT

- REPORT NO.: SA140311E07
 - **MODEL NO.:** T77H505
 - FCC ID: B3QT77H505
 - **RECEIVED:** Mar. 11, 2014
 - TESTED: Apr. 02, 2014
 - **ISSUED:** Apr. 21, 2014
 - **APPLICANT:** BROTHER INDUSTRIES, LTD.
 - ADDRESS: 15-1, Naeshiro-cho,Mizuho-ku,Nagoya, Aichi,Japan.
 - **ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140311E07	Original release	Apr. 21, 2014



1. CERTIFICATION

PRODUCT:IEEE802.11b/g/n Wi-Fi moduleBRAND NAME:BrotherMODEL NO.:T77H505TEST SAMPLE:ENGINEERING SAMPLEAPPLICANT:BROTHER INDUSTRIES, LTD.TESTED DATE:Apr. 02, 2014STANDARDS:FCC Part 2 (Section 2.1091)FCC OET Bulletin 65, Supplement C (01-01)IEEE C95.1

The above equipment (Model: T77H505) 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 :	(Claire Kuan, Specialist)	,	DATE: <u>Apr. 21, 2014</u>
APPROVED BY :	(May Chen, Manager)	,	DATE: Apr. 21, 2014



2. RF EXPOSURE LIMIT

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							
300-1500			F/1500	30			
1500-100,000			1.0	30			

F = Frequency in MHz

3. 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

4. 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**.

5. ANTENNA GAIN

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

Gain (dBi)	Antenna	Connecter	Frequency range	Cable Loss
	Type	Type	(MHz to MHz)	(dB)
2.12	PCB	NA	2400~2500	NA



6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
2412-2462	240.436	2.12	20	0.07793	1

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