# RF EXPOSURE REPORT

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|---|---|
| **REPORT NO.:** | SA120326E06 |
| **MODEL NO.:** | T77H298 |
| **FCC ID:** | B3QT77H298 |
| **RECEIVED:** | Mar. 26, 2012 |
| **TESTED:** | Apr. 18, 2012 |
| **ISSUED:** | May 08, 2012 |
| **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 |
| **LAB ADDRESS:** | No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C. |

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# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| SA120326E06 | Original release | May 08, 2012 |

## 1. CERTIFICATION

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|---|---|
| **PRODUCT:** | WiFi Module |
| **BRAND NAME:** | Brother |
| **MODEL NO.:** | T77H298 |
| **TEST SAMPLE:** | ENGINEERING SAMPLE |
| **APPLICANT:** | BROTHER INDUSTRIES, LTD. |
| **TESTED DATE:** | Apr. 18, 2012 |
| **STANDARDS:** | FCC Part 2 (Section 2.1091) |
| | FCC OET Bulletin 65, Supplement C (01-01) |
| | IEEE C95.1 |

The above equipment (Model: T77H298) 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** : Phoenix Huang , **DATE:** May 08, 2012
( Phoenix Huang, Specialist )

**APPROVED BY** : , **DATE:** May 08, 2012
( May Chen, Deputy Manager )

## 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. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

| FREQUENCY BAND (MHz) | CONDUCTED POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ $cm^2$) | LIMIT (mW/$cm^2$) |
|---|---|---|---|---|---|
| 2412-2462 | 181.970 | 2 | 20 | 0.057 | 1.00 |

**---END---**