

# **RF EXPOSURE REPORT**

<b>REPORT NO.:</b>	SA120406C19C
MODEL NO.:	WDAM2120
FCC ID:	JVPTX
<b>RECEIVED</b> :	Dec. 26, 2012
TESTED:	Jan. 21 ~ Apr. 16, 2013
<b>ISSUED:</b>	Apr. 24, 2013

**APPLICANT:** BenQ Corporation

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**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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#### RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120406C19C	Original release.	Apr. 24, 2013



#### **1. CERTIFICATION**

PRODUCT:Wireless TransmitterMODEL NO.:WDAM2120BRAND:BenQAPPLICANT:BenQ CorporationTESTED:Jan. 21 ~ Apr. 16, 2013TEST SAMPLE:ENGINEERING SAMPLESTANDARDS:FCC Part 2 (Section 2.1093)FCC OET Bulletin 65, Supplement C (01-01)IEEE C95.1

The above equipment (model: WDAM2120) 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.

Polly Chien / Specialist PREPARED BY Con Lin, DATE: Apr. 24, 2013 APPROVED BY Ken Liu / Senior Manager



### 2. EVALUATION RESULT

#### Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

- The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where
  - ➢ f(GHz) is the RF channel transmit frequency in GHz.
  - Power and distance are rounded to the nearest mW and mm before calculation.
  - ➤ The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance 50mm)·( f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at
    > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step
    2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm
    and < 200 mm.</li>
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.



#### 3. SAR TEST EXCLUSION THRESHOLDS

Maximum measured transmitter power:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	1-g extremity SAR test exclusion thresholds	Result
5180-5240	4.093	5	1.865	3	Pass
5745-5805	3.914	5	1.878	3	Pass

**NOTE:** 1. The antenna type is PCB antenna with 2dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

#### 4. CONCLUSION

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.