

Section 2. Technical Summary

Applicant:

Mr C O Brien
Madge Networks Ltd
Red M Division
Wrexham Springs
Framewood Road
Wrexham
Slough
Berks
SL3 6PJ
United Kingdom

No of Units: One

Equipment Category: Short Range

Trade Name: Not applicable

Type No: 3000AS

Specification(s): Bluetooth Test Specification RF-Provisional

ITU Emission Code(s): 1M00F9W

Unit No 1

Type of Unit: Bluetooth Transceiver

Power Characteristics: 20.0 dBm

Frequency Characteristics: 2402 MHz to 2480 MHz

Modulation Type: Frequency Hopping Spread Spectrum

Data Rate: 1 Mb/s (max)

Temperature Range: 0.0 to 35.0 deg C

Manufacturer:

As Applicant

Title: **Test of RED-M**
3000AS Transceiver
To Bluetooth Test Specification RF-Provisional

4.2. Test Results**4.2.1. TRM/CA/01/E (Output Power)**

Ambient Temperature: 21.0 deg.C

Relative Humidity: 43.0 %

Rated output power: 20.0 dBm

Antenna Assembly Gain: 0.0 dBi

TRM/CA/01/E (Output Power)

CLAUSE 5.1.3

Power Class 1

TEST CONDITIONS		TRANSMITTER POWER (dBm)		
		Lowest	Middle	Highest
T nom (21.0 deg.C)	V nom(230 V)	P = 7.0 AVG = 6.7	P = 7.5 AVG = 7.1	P = 6.6 AVG = 6.4
T min (0.0 deg.C)	V min (99 V)	P = 5.9 AVG = 5.2	P = 6.7 AVG = 5.4	P = 4.5 AVG = 3.9
	V max (253 V)	P = 7.0 AVG = 6.5	P = 8.1 AVG = 7.7	P = 7.6 AVG = 7.1
T max (35.0 deg.C)	V min (99 V)	P = 6.1 AVG = 6.0	P = 7.1 AVG = 6.6	P = 6.9 AVG = 6.1
	V max (253 V)	P = 6.7 AVG = 6.2	P = 7.6 AVG = 7.1	P = 6.7 AVG = 6.3
Measurement Uncertainty (dB)		+/- 0.6		

Note: P is the highest peak power as defined in clause 5.1.3.3, step d
AVG is the average power as defined in clause 5.1.3.3, step e

LIMITS CLAUSE 5.1.3.5

Under all test conditions (dBm EIRP)	P: ≤ 23.0	AVG: ≤ 20.0
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TEST EQUIPMENT USED (Listed under RFI serial numbers):

S003, E013, M084, M091, M127, M139, A244

Not UKAS Accredited

RADIO FREQUENCY INVESTIGATION LTD

Conformance Testing Department

**Title: Test of RED-M
3000AS Transceiver
To Bluetooth Test Specification RF-Provisional**

**TEST REPORT
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