RF EXPOSURE REPORT

REPORT NO.:	SA140605E05
MODEL NO.:	SYP1-J1100-GR, SYP1-J11YY-XX (YY-Colour Variant (0~9 and A~Z) and XX-Customer Variant (0~9 and A~Z))
FCC ID:	Z3M-GSYP1J11
RECEIVED:	June 05, 2014
TESTED:	June 18, 2014
ISSUED:	July 04, 2014
APPLICANT:	Greenwave Systems Pte Ltd
ADDRESS:	41 Science Park Road, #03-01, The Gemini, Science Park II, Singapore, 117610 Singapore
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.

This report should not be used by the client to claim product certification, approval, or endorsement by any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140605E05	Original release	July 04, 2014

1. CERTIFICATION

PRODUCT:	Wireless Motion Sensor
BRAND NAME:	greenwave systems
MODEL NO.:	SYP1-J1100-GR, SYP1-J11YY-XX (YY-Colour Variant (0~9 and A~Z) and XX-Customer Variant (0~9 and A~Z))
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	Greenwave Systems Pte Ltd
TESTED DATE:	June 18, 2014
STANDARDS:	FCC Part 2 (Section 2.1091)
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

The above equipment (Model: SYP1-J1100-GR) 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:** *July 04, 2014*

(Phoenix Huang, Specialist)

APPROVED BY : , **DATE:** *July 04, 2014*

(May Chen, 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. ANTENNA GAIN

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

Brand	Antenna Type	Antenna Connector	Gain(dBi)	Frequency range (GHz)
NA	PCB	NA	1.2	2.4~2.4835

6. 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)
2405 - 2480	1.694	1.2	20	0.00044	1.00

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