

TEST REPORT

To:	GOLDEN BRIGHT MANUFACTUER LT	D.	To:	-					
Attn:	Eric Fung / Henry Lee / Carman Kwan		Attn:	-					
Address:	Room 1008-9, 10/F., Peninsula Centre, 6 Mody Road, Tsim Sha Tsui East, Kowloo HK		Address:	-					
Fax:	27243821		Fax:	-					
E-mail:	sales@golden-bright.com / labtest@gb-ts.com / linyuchang@gb-ts.com		E-mail:	-					
Folder No.:	my serion g G gaz teres m	1							
_	1								
Factory name:									
Location:									
Product:		del No	Control Boat b.: 9305, 9306 5S, 9307, 9308, 93	09, 93031, 93091					
		200	Sample No:	(5215)292-1800 (5215)293-0586					
	Sea lite RADIO CONTROL		Test date:	November 03, 2015					
			Test Requested:	FCC Part 15 - 2012					
	† O FORMAND U PRADIO CONTROL SYSTEM		Test Method:	ANSI C63.4 - 2009					
		1	FCC ID:	O2X93056					
The results	given in this report are related to the tes	ted sp	ecimen of the des	scribed electrical apparatus.					
CONCLUSION:	The submitted sample was found to CC	MPLY	with requirement	of FCC Part 15 Subpart C.					
	Authorized	Signat	ture:						
	Λα1								
	Clark		Va.						
Reviewed by: Ke			pproved by: Law Man Kit						
Date: Novembe	r 18, 2015	vate: I	vovember 18, 2015	te: November 18, 2015					

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889

www.cps.bureauveritas.com

This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples of a positive of any arrows or organization to a provided howaver such positive. additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5215)292-1800 **Test Result Summary**

EMISSION TEST											
Test requirement: FCC Part 15 - 2012											
Test Condition	Test Method	Test	Result								
Test Condition	rest Method	Pass	Failed								
Radiated Emission Test,	ANSI C63.4	\boxtimes									
9kHz to 25GHz											
Frequency range of Fundamental Emission	ANSI C63.4	\boxtimes									
26dB Bandwidth of Fundamental Emission	ANSI C63.4	\boxtimes									
Duty Cycle Correction During 100msec	ANSI C63.4	\boxtimes									

Report Revision & Sample Re-submit History:



Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at:

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

List of measuring equipment

Radiated Emission

Madatoa Elifocion											
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION	CALIBRATION DUE						
EMI TEST RECEIVER	R&S	ESCI	100379	04-FEB-2015	03-FEB-2016						
SIGNAL ANALYZER 40GHZ	ROHDE & SCHWARZ	FSV 40	100977	30-JUN-2015	29-JUN-2016						
SPECTRUM ANALYZER	R&S	R3127	111000909	27-APR-2015	26-APR-2016						
LOOP ANTENNA	ETS LINDGREN	6502	00102266	05-NOV-2014	06-NOV-2015						
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	03-FEB-2015	02-FEB-2016						
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	27-DEC-2014	26-DEC-2015						
WIDEBAND HORN ANTENNA 18 TO 40GHZ	STEATITE	QWH-SL-18-40-K-SG	12688	03-SEP-2015	02-SEP-2016						
OPEN AREA TEST SITE	BVCPS	N/A	N/A	19-JUN-2015	18-JUN-2016						
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	13-FEB-2015	12-FEB-2016						
COAXIAL CABLE	SUHNER	N/A	N/A	08-JAN-2015	07-JAN-2016						
HIGH FREQUENCY RF CABLE	ROHDE & SCHWARZ	N/A	N/A	05-NOV-2014	04-NOV-2015						

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
	9kHz to 30MHz	4.2dB
Radiated emissions	30MHz to 1GHz	5.0dB
Radiated emissions	1GHz to 18GHz	4.9dB
	18GHz to 40GHz	4.8dB

Remarks:-

N/A: Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result



Equipment Under Test [EUT]

Description of Sample:

Model Name: Remote Control Boat

Model Number: 9305, 9306

Model information: Declare the Circuit, PCB layout and Electrical parts of model

9305 & 9306 are identical, except the model 9305 with a control for the turning direction of motor, and model 9306

without this control.

Additional Model Number: 9303, 9305S, 9307, 9308, 9309, 93031, 93091

Additional Model information: Declare the Circuit, PCB layout and Electrical parts of the

products are identical to the basic model, except the

appearance.

Rating: 9Vd.c. ("6F22" size battery x 1)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **GOLDEN BRIGHT MANUFACTUER LTD.** of Remote Control Transmitter. It is a 1 switch, 2 buttons and 2 sticks transmitter and operating at 2414MHz to 2467MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed or sticks are being pushed or pulled, Modulation by IC, and type is GFSK.

There are total 18 channels and below is the frequency list:

2414	2417	2419	2421	2425	2428	2433	2436	2438	2442
2445	2447	2448	2451	2455	2459	2465	2467		

The transmitter has different control:

- 1. ON/OFF Switch power control
- 2. Left Stick sail control
- 3. Right Stick propeller direction control
- 4. Left Button propeller motor control: clockwise
- 5. Right Button propeller motor control: anticlockwise

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 2.6cm long wire The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna



BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889

www.cps.bureauveritas.com

of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report

This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use



Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249

Test Method:

ANSI C63.4

Test Date(s):

2015-11-03

Temperature:

48.0 °C

Humidity:

75.0 %

Atmospheric Pressure: 100.3 kPa
Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

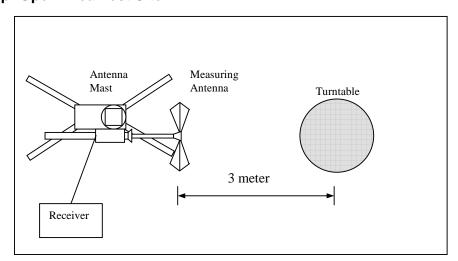
Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site





Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Harmonics Emission
	(Average)	(Average)
[MHz]	[mV/m]	[µV/m]
2400-2483.5	50	500

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
2414.00	Н	*0.0	-24.4	92.0	114.0	-22.0	**67.6	94.0	-26.4
2414.00	V	*0.0	-24.4	94.5	114.0	-19.5	**70.1	94.0	-23.9

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
2445.00	Н	*0.0	-24.4	91.8	114.0	-22.2	**67.4	94.0	-26.6
2445.00	V	*0.0	-24.4	93.3	114.0	-20.7	**68.9	94.0	-25.1

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
2467.00	Н	*0.0	-24.4	92.7	114.0	-21.3	**68.3	94.0	-25.7
2467.00	V	*0.0	-24.4	93.2	114.0	-20.8	**68.8	94.0	-25.2

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz Receiver setting:

VBW = 1MHz

Correction factor: Antenna factor + Cable loss - Gain of pre-amplifier

^{**}Duty Cycle Correction = 20Log(0.06) = -24.4dB.



Radiated Emissions (Spurious Emission)

FCC Part 15 Section 15.249 Test Requirement:

Test Method: **ANSI C63.4** 2015-11-03 Test Date(s): 28.0 °C Temperature: Humidity: 75.0 % Atmospheric Pressure: 100.3 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4828.00	Н	5.9	-24.4	72.2	74.0	-1.8	**47.8	54.0	-6.2
7242.00	Н	12.7	-24.4	70.5	74.0	-3.5	**46.1	54.0	-7.9
9656.00	Н	16.4	-24.4	54.4	74.0	-19.6	**30.0	54.0	-24.0
12070.00	Н	18.4	-24.4	55.4	74.0	-18.6	**31.0	54.0	-23.0
14484.00	Н	23.2	-24.4	62.9	74.0	-11.1	**38.5	54.0	-15.5
16898.00	Н	22.0	-24.4	63.6	74.0	-10.4	**39.2	54.0	-14.8
19312.00	Н	46.3	-24.4	64.0	74.0	-10.0	**39.6	54.0	-14.4
21726.00	Н	47.1	-24.4	64.7	74.0	-9.3	**40.3	54.0	-13.7
24140.00	Н	47.5	-24.4	63.3	74.0	-10.7	**38.9	54.0	-15.1
26554.00	Н	48.5	-24.4	64.7	74.0	-9.3	**40.3	54.0	-13.7

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.06) = -24.4dB.



Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4828.00	V	5.9	-24.4	70.2	74.0	-3.8	**45.8	54.0	-8.2
7242.00	V	12.7	-24.4	66.3	74.0	-7.7	**41.9	54.0	-12.1
9656.00	V	16.4	-24.4	53.5	74.0	-20.5	**29.1	54.0	-24.9
12070.00	V	18.4	-24.4	56.0	74.0	-18.0	**31.6	54.0	-22.4
14484.00	V	23.2	-24.4	61.9	74.0	-12.1	**37.5	54.0	-16.5
16898.00	V	22.0	-24.4	62.2	74.0	-11.8	**37.8	54.0	-16.2
19312.00	V	46.3	-24.4	62.5	74.0	-11.5	**38.1	54.0	-15.9
21726.00	V	47.1	-24.4	62.9	74.0	-11.1	**38.5	54.0	-15.5
24140.00	V	47.5	-24.4	63.5	74.0	-10.5	**39.1	54.0	-14.9
26554.00	V	48.5	-24.4	63.6	74.0	-10.4	**39.2	54.0	-14.8

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.06) = -24.4dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz Receiver setting:

VBW = 1MHz



Measurement Data

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4890.00	Н	5.9	-24.4	72.9	74.0	-1.1	**48.5	54.0	-5.5
7335.00	Н	12.7	-24.4	68.2	74.0	-5.8	**43.8	54.0	-10.2
9780.00	Н	16.4	-24.4	54.8	74.0	-19.2	**30.4	54.0	-23.6
12225.00	Н	18.6	-24.4	55.9	74.0	-18.1	**31.5	54.0	-22.5
14670.00	Н	25.0	-24.4	62.0	74.0	-12.0	**37.6	54.0	-16.4
17115.00	Н	27.2	-24.4	63.1	74.0	-10.9	**38.7	54.0	-15.3
19560.00	Н	46.5	-24.4	65.2	74.0	-8.8	**40.8	54.0	-13.2
22005.00	Н	46.9	-24.4	63.2	74.0	-10.8	**38.8	54.0	-15.2
24450.00	Н	48.0	-24.4	62.9	74.0	-11.1	**38.5	54.0	-15.5
26895.00	Н	48.3	-24.4	65.0	74.0	-9.0	**40.6	54.0	-13.4

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4890.00	V	5.9	-24.4	69.7	74.0	-4.3	**45.3	54.0	-8.7
7335.00	V	12.7	-24.4	63.4	74.0	-10.6	**39.0	54.0	-15.0
9780.00	V	16.4	-24.4	54.1	74.0	-19.9	**29.7	54.0	-24.3
12225.00	V	18.6	-24.4	55.4	74.0	-18.6	**31.0	54.0	-23.0
14670.00	V	25.0	-24.4	60.7	74.0	-13.3	**36.3	54.0	-17.7
17115.00	V	27.2	-24.4	63.0	74.0	-11.0	**38.6	54.0	-15.4
19560.00	V	46.5	-24.4	63.8	74.0	-10.2	**39.4	54.0	-14.6
22005.00	V	46.9	-24.4	62.8	74.0	-11.2	**38.4	54.0	-15.6
24450.00	V	48.0	-24.4	64.1	74.0	-9.9	**39.7	54.0	-14.3
26895.00	V	48.3	-24.4	64.4	74.0	-9.6	**40.0	54.0	-14.0

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHzVBW =

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888

Fax: +852 2331 0889 www.cps.bureauveritas.com This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples of a positive of any arrows or organization to a provided howaver such positive. additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report

^{**}Duty Cycle Correction = 20Log(0.06) = -24.4dB.



Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4934.00	Н	5.9	-24.4	70.8	74.0	-3.2	**46.4	54.0	-7.6
7401.00	Η	13.3	-24.4	70.3	74.0	-3.7	**45.9	54.0	-8.1
9868.00	Н	16.4	-24.4	55.9	74.0	-18.1	**31.5	54.0	-22.5
12335.00	Н	18.6	-24.4	55.1	74.0	-18.9	**30.7	54.0	-23.3
14802.00	Н	25.0	-24.4	63.1	74.0	-10.9	**38.7	54.0	-15.3
17269.00	Н	27.2	-24.4	65.7	74.0	-8.3	**41.3	54.0	-12.7
19736.00	Н	46.6	-24.4	65.2	74.0	-8.8	**40.8	54.0	-13.2
22203.00	Н	47.0	-24.4	63.5	74.0	-10.5	**39.1	54.0	-14.9
24670.00	Н	48.1	-24.4	65.6	74.0	-8.4	**41.2	54.0	-12.8
27137.00	Н	48.5	-24.4	64.7	74.0	-9.3	**40.3	54.0	-13.7

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4934.00	V	5.9	-24.4	70.7	74.0	-3.3	**46.3	54.0	-7.7
7401.00	V	13.3	-24.4	65.1	74.0	-8.9	**40.7	54.0	-13.3
9868.00	V	16.4	-24.4	54.8	74.0	-19.2	**30.4	54.0	-23.6
12335.00	V	18.6	-24.4	54.9	74.0	-19.1	**30.5	54.0	-23.5
14802.00	V	25.0	-24.4	61.5	74.0	-12.5	**37.1	54.0	-16.9
17269.00	V	27.2	-24.4	63.3	74.0	-10.7	**38.9	54.0	-15.1
19736.00	V	46.6	-24.4	63.2	74.0	-10.8	**38.8	54.0	-15.2
22203.00	V	47.0	-24.4	61.3	74.0	-12.7	**36.9	54.0	-17.1
24670.00	V	48.1	-24.4	63.2	74.0	-10.8	**38.8	54.0	-15.2
27137.00	V	48.5	-24.4	63.4	74.0	-10.6	**39.0	54.0	-15.0

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz Receiver setting: VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED -Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888

Fax: +852 2331 0889 www.cps.bureauveritas.com

^{**}Duty Cycle Correction = 20Log(0.06) = -24.4dB.



Radiated Emissions (30MHz – 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method:

ANSI C63.4

Test Date(s):

Temperature:

Humidity:

Atmospheric Pressure:

Mode of Operation:

ANSI C63.4

2015-11-03

28.0 °C

75.0 %

100.3 kPa

On mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits	Measurement Distance
[MHz]	[μV/m]	m
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above960	500	3

Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency	Polarity (H/V)	Field Strength	Limit	Margin (dB)		
Emissions	Emissions detected are more than 20 dB below the limit line(s) in					
9kHz to 30MHz						

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 200Hz

VBW = 200Hz



Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency	Polarity	Field Strength	Limit	Margin (dB)
51.80	Н	23.7	40.0	-16.3
133.76	Н	22.6	43.5	-20.9
268.72	Н	24.5	46.0	-21.5
471.28	Н	28.7	46.0	-17.3
555.00	Н	29.3	46.0	-16.7
615.16	Н	30.2	46.0	-15.8

Frequency	Polarity	Field Strength	Limit	Margin (dB)
51.80	V	23.6	40.0	-16.4
133.76	V	22.8	43.5	-20.7
268.72	V	24.3	46.0	-21.7
471.28	V	28.6	46.0	-17.4
555.00	V	29.2	46.0	-16.8
615.16	V	30.8	46.0	-15.2

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 120kHzReceiver setting:

VBW = 120kHz



Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249

Test Method: ANSI C63.4:2009 (Section 13.1.7)

Test Date(s): 2015-11-03
Temperature: 28.0 °C
Humidity: 75.0 %
Atmospheric Pressure: 100.3 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for Frequency range of Fundamental Emission:

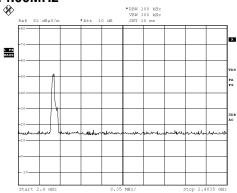
Frequency	FCC Limits
[MHz]	[MHz]
2413.18 - 2468.64	2400 – 2483.5



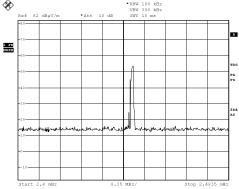
Measurement Data:

Test Result of Frequency Range of Fundamental Emission: PASS

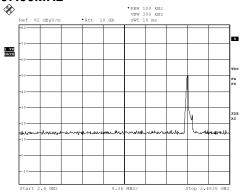
Lowest Frequency - 2414.00MHz



Middle Frequency - 2445.00MHz



Highest Frequency - 2467.00MHz



BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com

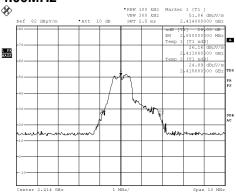
This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report



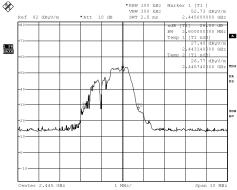
TEST REPORT No: (5215)292-1800 Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

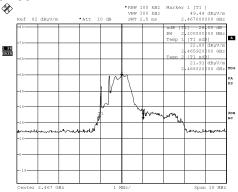
Lowest Frequency - 2414.00MHz



Middle Frequency - 2445.00MHz



Highest Frequency - 2467.00MHz





Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 3 pulses (2msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered 3*2 per 100msec = 6% duty cycle.

Remarks:

Duty Cycle Correction = 20Log(0.06) = -24.4dB

The following figures [Figure A] show the characteristics of the pulse train for one of these functions.



Measurement Data:

Figure A [Pulse Train] RBW 1 MHz Delta 1 [T1] -0.00 dB -Att 10 dB SWT 100 ms 2.000000 ms Ref 82 dBµV/m dBµV/i A 1 AP VIEW Center 2.421 GHz

www.cps.bureauveritas.com



Photographs of EUT

Front View of the product



Top View of the product



Side View of the product



Battery compartment



Rear View of the product



Bottom View of the product



Side View of the product



Battery Cover



BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889

www.cps.bureauveritas.com

This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request delitional testing of the complex or to applic the or person of the proper of the product of the additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report

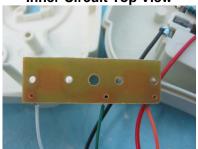


Photographs of EUT

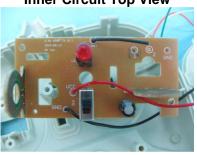
Internal View of the product



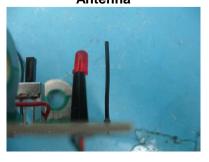
Inner Circuit Top View



Inner Circuit Top View



Antenna



Internal View of the product



Inner Circuit Bottom View



Inner Circuit Bottom View



BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889

www.cps.bureauveritas.com

This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request delitional testing of the complex or to applic the or person of the proper of the product of the additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report



Measurement of Radiated Emission Test Set Up



***** End of Report *****