

TEST REPORT

To:	SILVERLIT TOYS MANUFACTORY LTI	D.	То:	-
Attn:	Ms. May Choi / Mr. Nelson Ng /		Attn:	-
	Mr. Matt Yip / Ms. Angel Zhang			
Address:	17 ^{°°} Floor World Trade Centre, 280		Address:	-
	Kong			
Fax:	852 29162932		Fax:	-
E-mail:	may@silverlit.com / nelson@silverlit.com	/	E-mail:	-
	wt.mark-qa@silverlit.com /			
	wt.angelzhang@silverlit.com /			
E al da a Nia	wt.jim@silverlit.com / matt@silverlit.com			
Folder No.:				
Factory name:				
Location:				
Location.	2	4G Sp	v Cam Nano	
Product:		Model	No.: 84729	
			Sample No:	(5215)105-0698
			Test date:	April 23, 2015
				to
				May 18, 2015
			Test Requested:	FCC Part 15 - 2012
	ROUT SEE C-TIME-D		Test Method:	ANSI C63.4 – 2009
1			FCC ID:	OYK-TX0002G4-1503
The resuls ç	given in this report are related to the tes	ted sp	ecimen of the des	cribed electrical apparatus.
CONCLUSION:	The submitted sample was found to CC	MPLY	with requirement	of FCC Part 15 Subpart C.
	Authorized	Signat	ure:	
			/	
	001		()	
			()	Mit
Reviewed by: Ka	pith Yeung	Annroy	ed by: Law Man Ki	
Date: July 06 20	015	July 06. 2015		
_ a.o. odiy oo, 20				
BUREAU VERITAS	S HONG KONG LIMITED – This report is intended for of our name or trademark	your exclus	ive use. Any copying or replication d only with our prior written perm	n of this report to or for any other person or entity, or use

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



TEST REPORT No: (5215)105-0698(D) Test Result Summary

EMISSION TEST								
Test requirement: FCC Part 15 - 2012								
Test Condition	Toot Mothod	Test	Result					
Test Condition	Test Method	Pass	Failed					
Radiated Emission Test,	ANSI C63.4	\square						
9kHz to 40GHz								
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	\square						

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							
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION	CALIBRATION DUE		
EMI TEST RECEIVER	R&S	ESCI	100379	21-JAN-2015	20-JAN-2016		
SPECTRUM ANALYZER	R&S	R3127	111000909	26-MAR-2015	25-MAR-2016		
LOOP ANTENNA	ETS LINDGREN	6502	00102266	28-SEP-2014	27-SEP-2015		
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	02-JAN-2015	02-JAN-2016		
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	27-DEC-2014	26-DEC-2015		
OPEN AREA TEST SITE	BVCPS	N/A	N/A	07-JUL-2015	06-JUL-2016		
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	05-FEB-2014	03-FEB-2016		
COAXIAL CABLE	HUBER + SUHNER	RG223	N/A	23-DEC-2014	22-DEC-2015		
COAXIAL CABLE	HUBER + SUHNER	RG214	N/A	23-DEC-2014	22-DEC-2015		
Signal Analyzer 40GHz	Rohde & Schwarz	FSV 40	100977	13-MAY-2015	12-MAY-2016		
Wideband Horn Antenna 18 to 40GHz	STEATITE	QWH-SL-18-40-K-SG	12688	02-SEP-2014	01-SEP-2015		
High frequency RF cable	Rohde & Schwarz	N/A	N/A	15-SEP-2014	14-SEP-2015		

..

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
	9kHz to 30MHz	4.2dB
Dedicted 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

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



Equipment Under Test [EUT]	
Description of Sample:	
Model Name:	2.4G Spy Cam Nano
Model Number:	84729
Additional Model Name:	
Additional Model Number:	
Additional Model information:	
Rating:	6Vd.c. ("AAA" size battery x 4)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **SILVERLIT TOYS MANUFACTORY LTD.** of Remote Control Transceiver. It is a 1 switch, 2 sticks and 3 buttons transceiver and operating at 2405MHz to 2475MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while corresponding remote controller sticks are being pushed or pulled, Modulation by IC, and type is GFSK.

ch.no	freq.										
1	2405	13	2417	25	2429	37	2441	49	2453	61	2465
2	2406	14	2418	26	2430	38	2442	50	2454	62	2466
3	2407	15	2419	27	2431	39	2443	51	2455	63	2467
4	2408	16	2420	28	2432	40	2444	52	2456	64	2468
5	2409	17	2421	29	2433	41	2445	53	2457	65	2469
6	2410	18	2422	30	2434	42	2446	54	2458	66	2470
7	2411	19	2423	31	2435	43	2447	55	2459	67	2471
8	2412	20	2424	32	2436	44	2448	56	2460	68	2472
9	2413	21	2425	33	2437	45	2449	57	2461	69	2473
10	2414	22	2426	34	2438	46	2450	58	2462	70	2474
11	2415	23	2427	35	2439	47	2451	59	2463	71	2475
12	2416	24	2428	36	2440	48	2452	60	2464		

There are total 71 channels and below is the frequency list (MHz) :

The transmitter has different control:

- 1. Switch control ON/OFF
- 2. Left stick control the accelerator
- 3. Right stick control the helicopter rotate
- 4. Left upper button control video recording
- 5. Right upper button control photo taking
- 6. Right lower button left and right fine tuning

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 3cm 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.



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



Test Results

Radiated Emissions (Fundamental)

Test Requirement:	FCC Part 15 Section 15.249
Test Method:	ANSI C63.4
Test Date(s):	2015-05-18
Temperature:	25.0 °C
Humidity:	78.0 %
Atmospheric Pressure:	100.3 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	6Vd.c. ("AAA" size battery x 4)

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

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



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

V		
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)
2405.00	н	0.0	-14.3	76.2	114.0	-37.8	**61.9	94.0	-32.1
2405.00	V	0.0	-14.3	76.9	114.0	-37.1	**62.6	94.0	-31.4

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	-14.3	78.0	114.0	-36.0	**63.7	94.0	-30.3
2445.00	V	0.0	-14.3	79.4	114.0	-34.6	**65.1	94.0	-28.9

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)
2475.00	Н	0.0	-14.3	79.1	114.0	-34.9	**64.8	94.0	-29.2
2475.00	V	0.0	-14.3	79.2	114.0	-34.8	**64.9	94.0	-29.1

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(0.192) = -14.3dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting:

RBW = 1MHz VBW = 1MHz



Radiated Emissions (Spurious Emission)

Test Requirement:	FCC Part 15 Section 15.249
Test Method:	ANSI C63.4
Test Date(s):	2015-05-18
Temperature:	25.0 °C
Humidity:	78.0 %
Atmospheric Pressure:	100.3 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	6Vd.c. ("AAA" size battery x 4)

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)
4810.00	Н	5.9	-14.3	56.2	74.0	-17.8	**41.9	54.0	-12.1
7215.00	Н	12.7	-14.3	54.5	74.0	-19.5	**40.2	54.0	-13.8
9620.00	Н	16.4	-14.3	52.0	74.0	-22.0	**37.7	54.0	-16.3
12025.00	Н	18.4	-14.3	54.1	74.0	-19.9	**39.8	54.0	-14.2
14430.00	Н	23.2	-14.3	62.8	74.0	-11.2	**48.5	54.0	-5.5
16835.00	Н	22.0	-14.3	62.4	74.0	-11.6	**48.1	54.0	-5.9
19240.00	Н	46.3	-14.3	61.5	74.0	-12.5	**47.2	54.0	-6.8
21645.00	Н	47.1	-14.3	62.3	74.0	-11.7	**48.0	54.0	-6.0
24050.00	Н	47.5	-14.3	62.2	74.0	-11.8	**47.9	54.0	-6.1
26455.00	Н	48.5	-14.3	62.7	74.0	-11.3	**48.4	54.0	-5.6

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(0.192) = -14.3dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting:

RBW = 1MHz VBW = 1MHz



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)
4810.00	V	5.9	-14.3	51.9	74.0	-22.1	**37.6	54.0	-16.4
7215.00	V	12.7	-14.3	60.5	74.0	-13.5	**46.2	54.0	-7.8
9620.00	V	16.4	-14.3	52.8	74.0	-21.2	**38.5	54.0	-15.5
12025.00	V	18.4	-14.3	55.0	74.0	-19.0	**40.7	54.0	-13.3
14430.00	V	23.2	-14.3	61.2	74.0	-12.8	**46.9	54.0	-7.1
16835.00	V	22.0	-14.3	62.0	74.0	-12.0	**47.7	54.0	-6.3
19240.00	V	46.3	-14.3	62.7	74.0	-11.3	**48.4	54.0	-5.6
21645.00	V	47.1	-14.3	60.9	74.0	-13.1	**46.6	54.0	-7.4
24050.00	V	47.5	-14.3	61.8	74.0	-12.2	**47.5	54.0	-6.5
26455.00	V	48.5	-14.3	62.5	74.0	-11.5	**48.2	54.0	-5.8

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(0.192) = -14.3dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting:

RBW = 1MHz 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	-14.3	57.3	74.0	-16.7	**43.0	54.0	-11.0
7335.00	Н	12.7	-14.3	56.3	74.0	-17.7	**42.0	54.0	-12.0
9780.00	Н	16.4	-14.3	53.0	74.0	-21.0	**38.7	54.0	-15.3
12225.00	Н	18.6	-14.3	55.6	74.0	-18.4	**41.3	54.0	-12.7
14670.00	Н	25.0	-14.3	61.3	74.0	-12.7	**47.0	54.0	-7.0
17115.00	Н	27.2	-14.3	61.8	74.0	-12.2	**47.5	54.0	-6.5
19560.00	Н	46.5	-14.3	61.9	74.0	-12.1	**47.6	54.0	-6.4
22005.00	Н	47.0	-14.3	62.1	74.0	-11.9	**47.8	54.0	-6.2
24450.00	Н	48.0	-14.3	62.5	74.0	-11.5	**48.2	54.0	-5.8
26895.00	Н	48.3	-14.3	62.3	74.0	-11.7	**48.0	54.0	-6.0

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	-14.3	51.9	74.0	-22.1	**37.6	54.0	-16.4
7335.00	V	12.7	-14.3	58.1	74.0	-15.9	**43.8	54.0	-10.2
9780.00	V	16.4	-14.3	50.2	74.0	-23.8	**35.9	54.0	-18.1
12225.00	V	18.6	-14.3	52.8	74.0	-21.2	**38.5	54.0	-15.5
14670.00	V	25.0	-14.3	61.7	74.0	-12.3	**47.4	54.0	-6.6
17115.00	V	27.2	-14.3	62.2	74.0	-11.8	**47.9	54.0	-6.1
19560.00	V	46.5	-14.3	62.1	74.0	-11.9	**47.8	54.0	-6.2
22005.00	V	47.0	-14.3	61.5	74.0	-12.5	**47.2	54.0	-6.8
24450.00	V	48.0	-14.3	61.9	74.0	-12.1	**47.6	54.0	-6.4
26895.00	V	48.3	-14.3	62.6	74.0	-11.4	**48.3	54.0	-5.7

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(0.192) = -14.3dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting: RBW = 1MHz

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



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)
4950.00	Н	5.9	-14.3	56.6	74.0	-17.4	**42.3	54.0	-11.7
7425.00	Н	13.3	-14.3	59.4	74.0	-14.6	**45.1	54.0	-8.9
9900.00	Н	16.4	-14.3	51.6	74.0	-22.4	**37.3	54.0	-16.7
12375.00	Н	18.6	-14.3	52.3	74.0	-21.7	**38.0	54.0	-16.0
14850.00	Н	25.0	-14.3	61.0	74.0	-13.0	**46.7	54.0	-7.3
17325.00	Н	27.2	-14.3	61.6	74.0	-12.4	**47.3	54.0	-6.7
19800.00	Н	46.6	-14.3	62.5	74.0	-11.5	**48.2	54.0	-5.8
22275.00	Н	47.0	-14.3	61.7	74.0	-12.3	**47.4	54.0	-6.6
24750.00	Н	48.1	-14.3	62.3	74.0	-11.7	**48.0	54.0	-6.0
27225.00	Н	48.5	-14.3	62.8	74.0	-11.2	**48.5	54.0	-5.5

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)
4950.00	V	5.9	-14.3	52.4	74.0	-21.6	**38.1	54.0	-15.9
7425.00	V	13.3	-14.3	59.4	74.0	-14.6	**45.1	54.0	-8.9
9900.00	V	16.4	-14.3	52.5	74.0	-21.5	**38.2	54.0	-15.8
12375.00	V	18.6	-14.3	55.6	74.0	-18.4	**41.3	54.0	-12.7
14850.00	V	25.0	-14.3	60.9	74.0	-13.1	**46.6	54.0	-7.4
17325.00	V	27.2	-14.3	61.8	74.0	-12.2	**47.5	54.0	-6.5
19800.00	V	46.6	-14.3	61.7	74.0	-12.3	**47.4	54.0	-6.6
22275.00	V	47.0	-14.3	62.0	74.0	-12.0	**47.7	54.0	-6.3
24750.00	V	48.1	-14.3	62.4	74.0	-11.6	**48.1	54.0	-5.9
27225.00	V	48.5	-14.3	62.3	74.0	-11.7	**48.0	54.0	-6.0

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(0.192) = -14.3dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting: RBW = 1MHz 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



Radiated Emissions (9kHz - 40GHz)

Test Requirement:	FCC Part 15 Section 15.209
Test Method:	ANSI C63.4
Test Date(s):	2015-05-18
Temperature:	25.0 °C
Humidity:	78.0 %
Atmospheric Pressure:	100.3 kPa
Mode of Operation:	On mode
Tested Voltage:	6Vd.c. ("AAA" size battery x 4)

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: 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

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



Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
45.26	Н	22.4	40.0	-17.6
114.68	Н	24.8	43.5	-18.7
229.84	Н	22.5	46.0	-23.5
370.22	Н	29.3	46.0	-16.7
464.72	Н	31.5	46.0	-14.5
601.16	Н	34.2	46.0	-11.8

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
45.26	V	23.6	40.0	-16.4
114.68	V	24.2	43.5	-19.3
229.84	V	22.3	46.0	-23.7
370.22	V	29.3	46.0	-16.7
464.72	V	31.0	46.0	-15.0
601.16	V	34.6	46.0	-11.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz 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):	2015-05-18
Temperature:	25.0 °C
Humidity:	78.0 %
Atmospheric Pressure:	100.3 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	6Vd.c. ("AAA" size battery x 4)

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]
2404.320 - 2475.840	2400.00 - 2483.50



Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS

Lowest Frequency – 2405MHz







Highest Frequency – 2475MHz



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



TEST REPORT No: (5215)105-0698(D) Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

Lowest Frequency – 2405MHz



Middle Frequency – 2445MHz



Highest Frequency – 2475MHz



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 During 100msec:

Each function key sends a different series of characters, but each packet period (<u>100</u>msec) never exceeds a series of 32 pulses (<u>0.6</u>msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered <u>32*0.6</u> per <u>100</u>msec = <u>19.2</u>% duty cycle.

Remarks:

Duty Cycle Correction = 20Log(0.192) = -14.3dB

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



Measurement Data :



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



Photographs of EUT

Front View of the product



Top View of the product



Side View of the product



Battery Compartment



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

Rear View of the product



Bottom View of the product



Side View of the product



Battery Cover





Photographs of EUT

Internal View of the product



Inner Circuit Top View



Antenna



Internal View of the product



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





Measurement of Radiated Emission Test Set Up

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

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