
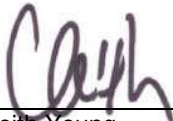





**BUREAU
VERITAS**

TEST REPORT No: (5216)092-1123(C)

TEST REPORT

To:	NEW BRIGHT INDUSTRIAL CO., LTD.	To:	-
Attn:	Eric Kwok	Attn:	-
Address:	9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, HONG KONG.	Address:	-
Fax:	852 2795 3665	Fax:	-
E-mail:	ypeng01@newbright.com / chkwok01@newbright.com	E-mail:	-
Folder No.:	NBT-16AP011MTHS-B-B		
Factory name:	NEW BRIGHT INDUSTRIAL CO., LTD.		
Location:	9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, HONG KONG.		
Product:	TOY Transmitter & Receiver Model No.: GF21HHA		
	Sample No:	HK160504/023	
	Date of Receipt:	March 29, 2016	
	Test date:	April 20, 2016 to May 09, 2016	
	Test Requested:	FCC Part 15 - 2012	
	Test Method:	ANSI C63.4 - 2009	
	FCC ID:	G6DGF21HHA	
	The results given in this report are related to the tested specimen of the described electrical apparatus.		
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.			
Authorized Signature:			
			
Reviewed by: Keith Yeung		Approved by: Law Man Kit	
Date: May 21, 2016		Date: May 21, 2016	

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TEST REPORT No: (5216)092-1123(C)
Test Result Summary

EMISSION TEST			
Test requirement: FCC Part 15 - 2012			
Test Condition	Test Method	Test Result	
		Pass	Failed
Radiated Emission Test, 9kHz to 40GHz	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency range of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26dB Bandwidth of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duty Cycle Correction During 100msec	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Report Revision & Sample Re-submit History:

Sample first submission date: April 04, 2016
 Sample second submission date: April 26 2016
 Sample third submission date: May 06, 2016



TEST REPORT No: (5216)092-1123(C)

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.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	22-FEB-2017
LOOP ANTENNA	ETS LINDGREN	6502	00102266	05-NOV-2016
BICONICAL ANTENNA	ROHDE & SCHWARZ	HK116	100179	13-APR-2018
LOG-PERIODIC DIPOLE ARRAY ANTENNA	ROHDE & SCHWARZ	HL223	832369/001	06-APR-2018
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	26-FEB-2017
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	04-APR-2018
PREAMPLIFIER	SCHWARZBECK	BBV9718	9718-152	12-OCT-2016
OPEN AREA TEST SITE	BVCPS	N/A	N/A	18-JUN-2016
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	11-FEB-2017
COAXIAL CABLE	SUHNER	N/A	N/A	06-JAN-2017
Signal Analyzer 40GHz	Rohde & Schwarz	FSV 40	100977	12-MAY-2016
Wideband Horn Antenna 18 to 40GHz	STEATITE	QWH-SL-18-40-K-SG	12688	02-SEP-2016
High frequency RF cable	Rohde & Schwarz	N/A	N/A	03-NOV-2016

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9kHz to 30MHz	4.2dB
	30MHz to 1GHz	5.0dB
	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

TEST REPORT No: (5216)092-1123(C)

Equipment Under Test [EUT]

Description of Sample:

Model Name: TOY Transmitter & Receiver
 Model Number: GF21HHA
 Additional Model Name: --
 Additional Model Number: --
 Additional Model information: --
 Rating: 3Vd.c. ("AA" size battery x 2)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **NEW BRIGHT INDUSTRIAL CO., LTD.** of Remote Control Transceiver. It is a 2 sticks transceiver and operating at 2410MHz to 2473MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT continues to transmit while sticks are being pushed or pulled, Modulation by IC, and type is GFSK. There are total 64 channels and below is the frequency list (MHz) :

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

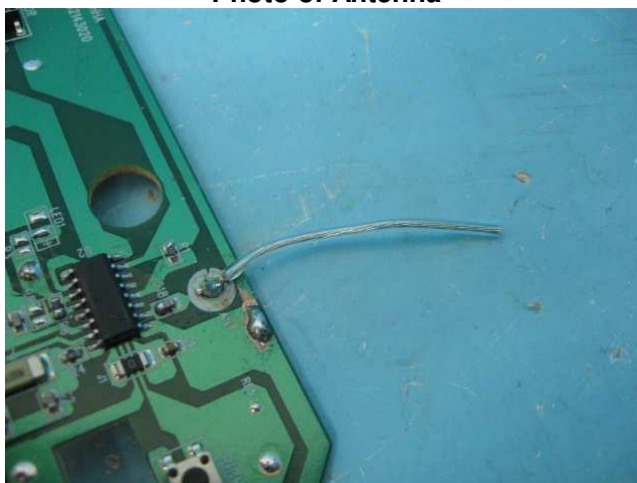
The transmitter has different control:

1. Left stick – control leftward and rightward
2. Right stick – control forward and backward

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 3.5cm 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



TEST REPORT No: (5216)092-1123(C)

Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249
 Test Method: ANSI C63.4
 Test Date(s): 2016-05-09
 Temperature: 26.0 °C
 Humidity: 75.0 %
 Atmospheric Pressure: 100.5 kPa
 Mode of Operation: Transmission mode
 Tested Voltage: 3Vd.c. ("AA" size battery x 2)

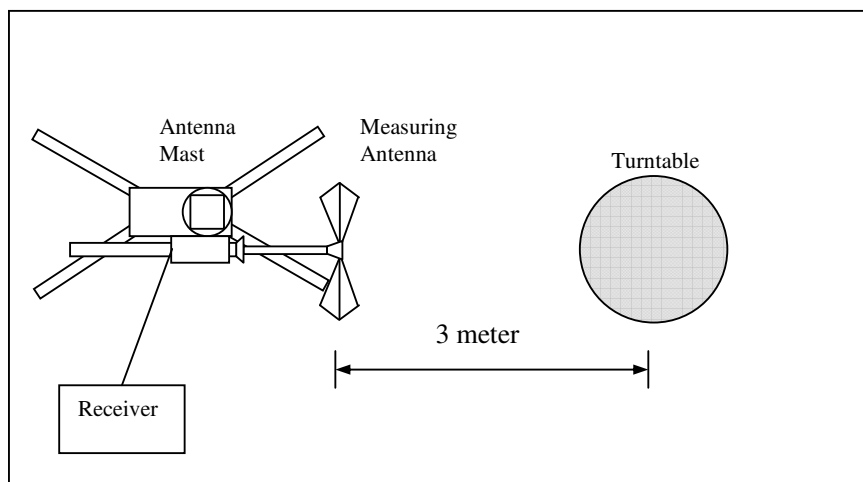
Test Procedure:

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



TEST REPORT No: (5216)092-1123(C)

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

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission (Average) [mV/m]	Field Strength of Harmonics Emission (Average) [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)
2410.00	H	-3.7	-28.8	71.9	114.0	-42.1	**43.1	94.0	-50.9
2410.00	V	-3.7	-28.8	68.8	114.0	-45.2	**40.0	94.0	-54.0

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)
2442.00	H	-3.7	-28.8	71.5	114.0	-42.5	**42.7	94.0	-51.3
2442.00	V	-3.7	-28.8	69.0	114.0	-45.0	**40.2	94.0	-53.8

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)
2473.00	H	-3.7	-28.8	69.0	114.0	-45.0	**40.2	94.0	-53.8
2473.00	V	-3.7	-28.8	67.5	114.0	-46.5	**38.7	94.0	-55.3

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

**Duty Cycle Correction = $20\log(0.036) = -28.8\text{dB}$.

Note: Field Strength includes Antenna Factor, Cable Loss and Gain of pre-amplifier.

Receiver setting: RBW = 1MHz
VBW = 1MHz



TEST REPORT No: (5216)092-1123(C)

Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249
 Test Method: ANSI C63.4
 Test Date(s): 2016-05-09
 Temperature: 26.0 °C
 Humidity: 75.0 %
 Atmospheric Pressure: 100.5 kPa
 Mode of Operation: Transmission mode
 Tested Voltage: 3Vd.c. ("AA" size battery x 2)

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)
4820.00	H	4.3	-28.8	58.1	74.0	-15.9	**29.3	54.0	-24.7
7230.00	H	11.8	-28.8	48.6	74.0	-25.4	**19.8	54.0	-34.2
9640.00	H	15.8	-28.8	52.0	74.0	-22.0	**23.2	54.0	-30.8
12050.00	H	19.1	-28.8	54.9	74.0	-19.1	**26.1	54.0	-27.9
14460.00	H	21.5	-28.8	55.2	74.0	-18.8	**26.4	54.0	-27.6
16870.00	H	24.7	-28.8	59.0	74.0	-15.0	**30.2	54.0	-23.8
19280.00	H	46.5	-28.8	60.2	74.0	-13.8	**31.4	54.0	-22.6
21690.00	H	46.8	-28.8	60.5	74.0	-13.5	**31.7	54.0	-22.3
24100.00	H	47.6	-28.8	61.2	74.0	-12.8	**32.4	54.0	-21.6
26510.00	H	48.6	-28.8	61.6	74.0	-12.4	**32.8	54.0	-21.2

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

**Duty Cycle Correction = $20\text{Log}(0.036) = -28.8\text{dB}$.

Note: Field Strength includes Antenna Factor, Cable Loss and Gain of pre-amplifier.

Receiver setting: RBW = 1MHz
VBW = 1MHz



TEST REPORT No: (5216)092-1123(C)

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)
4820.00	V	4.3	-28.8	58.4	74.0	-15.6	**29.6	54.0	-24.4
7230.00	V	11.8	-28.8	47.0	74.0	-27.0	**18.2	54.0	-35.8
9640.00	V	15.8	-28.8	52.4	74.0	-21.6	**23.6	54.0	-30.4
12050.00	V	19.1	-28.8	56.7	74.0	-17.3	**27.9	54.0	-26.1
14460.00	V	21.5	-28.8	57.0	74.0	-17.0	**28.2	54.0	-25.8
16870.00	V	24.7	-28.8	60.4	74.0	-13.6	**31.6	54.0	-22.4
19280.00	V	46.5	-28.8	60.9	74.0	-13.1	**32.1	54.0	-21.9
21690.00	V	46.8	-28.8	61.2	74.0	-12.8	**32.4	54.0	-21.6
24100.00	V	47.6	-28.8	61.5	74.0	-12.5	**32.7	54.0	-21.3
26510.00	V	48.6	-28.8	62.3	74.0	-11.7	**33.5	54.0	-20.5

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

**Duty Cycle Correction = $20\log(0.036) = -28.8\text{dB}$.

Note: Field Strength includes Antenna Factor, Cable Loss and Gain of pre-amplifier.

Receiver setting: RBW = 1MHz
VBW = 1MHz



BUREAU VERITAS

TEST REPORT No: (5216)092-1123(C)

Measurement Data

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

Table with 10 columns: 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). Rows include frequencies from 4884.00 to 26862.00 MHz.

Table with 10 columns: 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). Rows include frequencies from 4884.00 to 26862.00 MHz.

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(0.036) = -28.8dB.

Note: Field Strength includes Antenna Factor, Cable Loss and Gain of pre-amplifier.

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

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BUREAU VERITAS

TEST REPORT No: (5216)092-1123(C)

Measurement Data

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

Table with 10 columns: 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). Rows include frequencies from 4946.00 to 27203.00.

Table with 10 columns: 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). Rows include frequencies from 4946.00 to 27203.00.

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(0.036) = -28.8dB.

Note: Field Strength includes Antenna Factor, Cable Loss and Gain of pre-amplifier.

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

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TEST REPORT No: (5216)092-1123(C)

Radiated Emissions (9kHz – 40GHz)

Test Requirement: FCC Part 15 Section 15.209
 Test Method: ANSI C63.4
 Test Date(s): 2016-04-20
 Temperature: 22.0 °C
 Humidity: 65.0 %
 Atmospheric Pressure: 100.3 kPa
 Mode of Operation: On mode
 Tested Voltage: 3Vd.c. ("AA" size battery x 2)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]	Measurement Distance 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 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



TEST REPORT No: (5216)092-1123(C)

Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
61.92	H	21.4	40.0	-18.6
157.96	H	23.6	43.5	-19.9
254.04	H	21.5	46.0	-24.5
372.72	H	26.2	46.0	-19.8
488.24	H	28.3	46.0	-17.7
660.76	H	30.7	46.0	-15.3

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
61.92	V	21.7	40.0	-18.3
157.96	V	23.2	43.5	-20.3
254.04	V	23.0	46.0	-23.0
372.72	V	26.0	46.0	-20.0
488.24	V	28.8	46.0	-17.2
660.76	V	30.9	46.0	-15.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
 VBW = 120KHz



TEST REPORT No: (5216)092-1123(C)

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): 2016-04-20
Temperature: 22.0 °C
Humidity: 65.0 %
Atmospheric Pressure: 100.3 kPa
Mode of Operation: Transmission mode
Tested Voltage: 3Vd.c. ("AA" size battery x 2)

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:

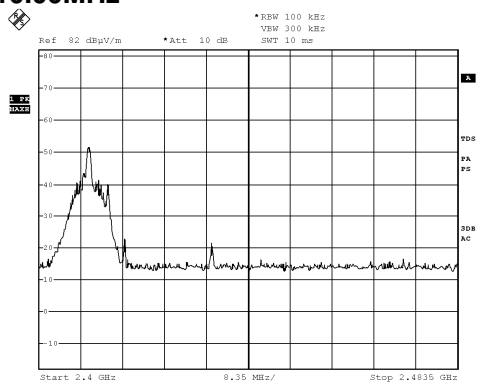
Frequency [MHz]	FCC Limits [MHz]
2405.560 – 2475.200	2400.00 – 2483.50

TEST REPORT No: (5216)092-1123(C)

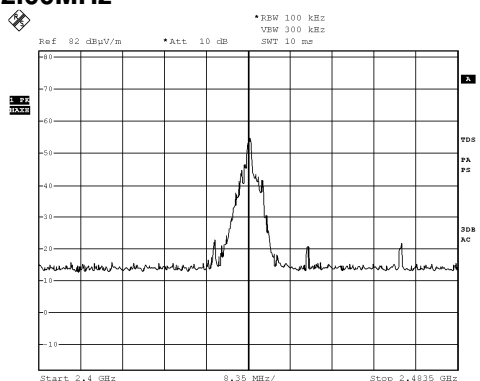
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS

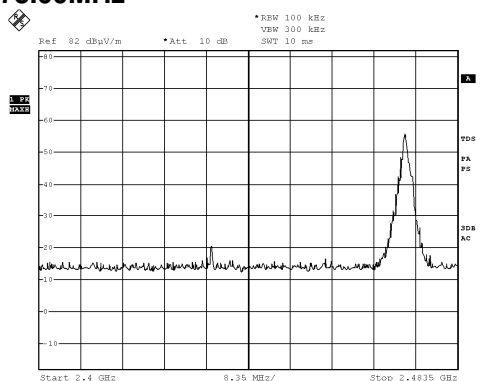
Lowest Frequency – 2410.00MHz



Middle Frequency – 2442.00MHz



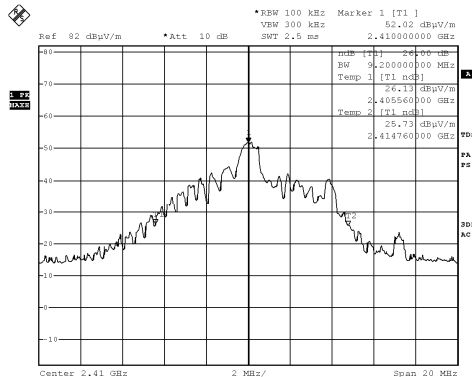
Highest Frequency – 2473.00MHz



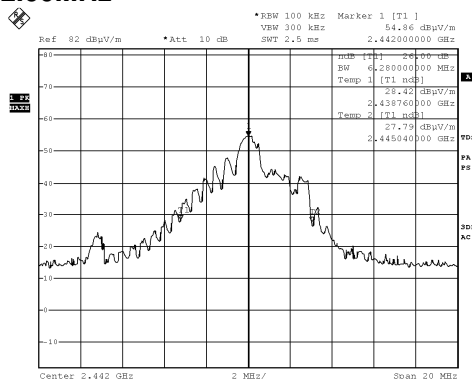
TEST REPORT No: (5216)092-1123(C)
Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

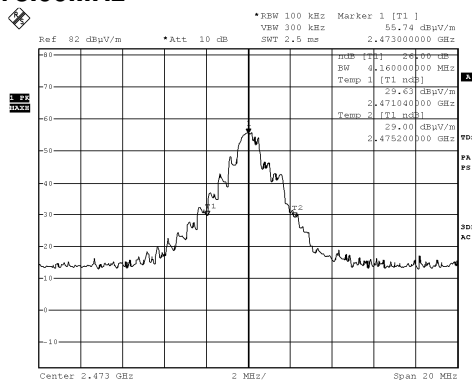
Lowest Frequency – 2410.00MHz



Middle Frequency – 2442.00MHz



Highest Frequency – 2473.00MHz





TEST REPORT No: (5216)092-1123(C)

Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 12 pulses (0.3 msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered 12×0.3 per 100msec = 3.6% duty cycle.

Remarks:

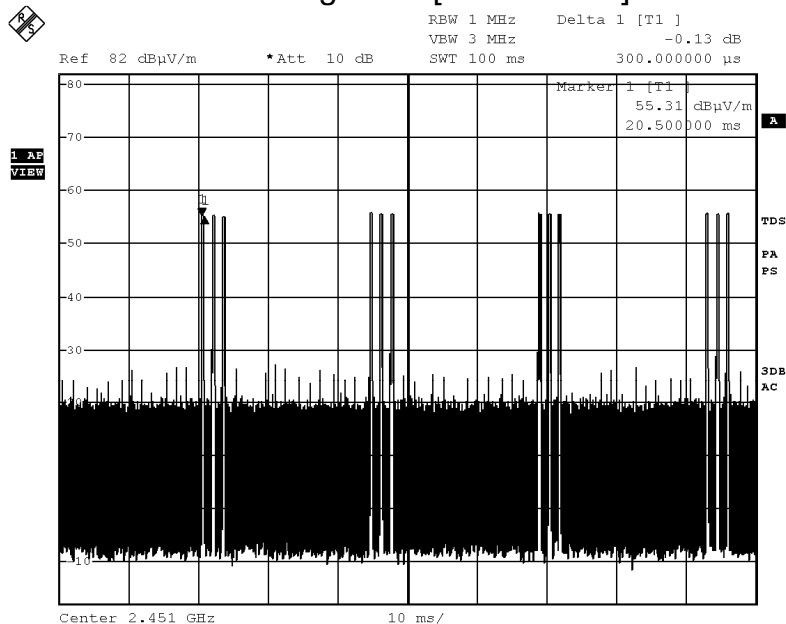
Duty Cycle Correction = $20\text{Log}(0.036) = -28.8\text{dB}$

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

TEST REPORT No: (5216)092-1123(C)

Measurement Data :

Figure A [Pulse Train]



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Photographs of EUT

Front View of the product



Rear View of the product



Top View of the product



Bottom View of the product



Side View of the product



Side View of the product



Battery compartment



Battery Cover



TEST REPORT No: (5216)092-1123(C)

Photographs of EUT

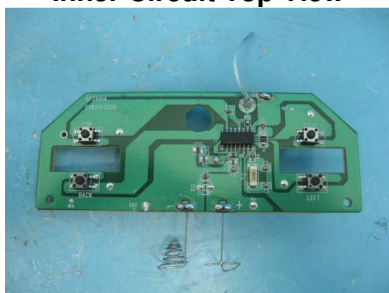
Internal View of the product



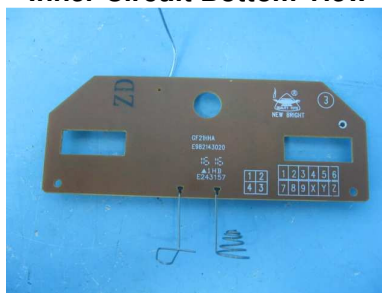
Internal View of the product



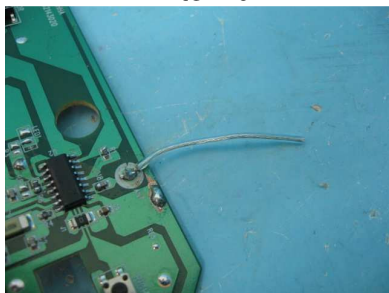
Inner Circuit Top View



Inner Circuit Bottom View



Antenna



TEST REPORT No: (5216)092-1123(C)

Measurement of Radiated Emission Test Set Up



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