

TEST REPORT

To:	SILVERLIT TOYS MANUFACTORY LTD.	То:	-
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Folder No.:			
Factory name:			
Location:			
Product:		4G Gyro Zee del No.: 82412	
100		Sample No:	(5213)074-1142
		Test date:	April 16, 2013
		Test Requested:	FCC Part 15 - 2011
		Test Method:	ANSI C63.4 - 2009
		FCC ID:	OYK-FCC82412
The results	given in this report are related to the tested	specimen of the desc	ribed electrical apparatus.
CONCLUSION	: The submitted sample was found to COMP	<u>PLY</u> with requirement of	of FCC Part 15 Subpart C.
	Authorized Sig	nature:	
	Quf	for Lai	
Reviewed by: Date: July 4, 20		proved by: Steven Tsa e: July 4, 2013	ang

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Test Result Summary

EMISSION TEST					
Test requirement: FCC Part 15 - 2011					
Test Condition	Test Method	Test Result			
Test Condition	rest Method	Pass	Failed		
Radiated Emission Test,	ANSI C63.4	\boxtimes			
9kHz to 40GHz					

Report Revision & Sample Re-submit History:

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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

Tadiated Ellifolieli						
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE		
EMI TEST RECEIVER	R&S	ESCI	100379	28-JAN-2014		
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	13-AUG-2013		
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	12-SEP-2013		
OPEN AREA TEST SITE	BVCPS	N/A	N/A	09-JUL-2013		
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	05-FEB-2014		
COAXIAL CABLE	SUHNER	N/A	N/A	24-SEP-2013		

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: 2.4G Gyro Zee

Model Number: 82412

Rating: Car: 9Vd.c. ("AA" size battery x 6) /

Remote: 6Vd.c. ("AA" size battery x 4)

Description of EUT Operation:

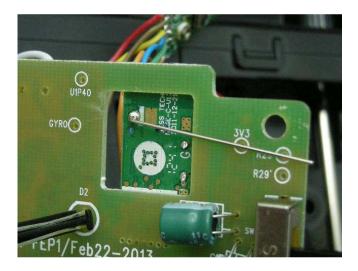
The Equipment Under Test (EUT) is a **SILVERLIT TOYS MANUFACTORY LIMITED** of Remote Control Transceiver. It is a 1 switch transceiver and operating at 2402MHz to 2478MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while received the controller command, Modulation by IC, and type is FHSS.

The transmitter has different control:

ON/OFF switch – ON/OFF control

Antenna Requirement (Section 15.203)

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





Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.4
Test Date(s): 2013-04-16

Temperature: 23.0 °C
Humidity: 68.0 %
Atmospheric Pressure: 100.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: Car: 9Vd.c. ("AA" size battery x 6)

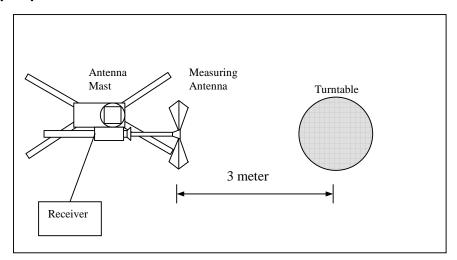
Test Procedure:

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2402.00	Н	-2.7	86.3	114.0	-27.7
2402.00	V	-2.7	87.5	114.0	-26.5

Detection mode: # Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2402.00	Η	-2.7	**66.3	94.0	-27.7
2402.00	V	-2.7	**67.5	94.0	-26.5

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

Therefore, -20dB is taken.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHzVBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.0629) = -24.03dB



Measurement Data

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2440.00	Н	-2.7	89.0	114.0	-25.0
2440.00	V	-2.7	87.1	114.0	-26.9

Detection mode: # Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2440.00	Н	-2.7	**69.0	94.0	-25.0
2440.00	V	-2.7	**67.1	94.0	-26.9

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2478.00	Ι	-2.7	89.6	114.0	-24.4
2478.00	V	-2.7	84.9	114.0	-29.1

Detection mode: # Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2478.00	Н	-2.7	**69.6	94.0	-24.4
2478.00	V	-2.7	**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.

Therefore, -20dB is taken.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.0629) = -24.03dB



Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.4

Test Date(s): 2013-04-16
Temperature: 23.0 °C
Humidity: 68.0 %
Atmospheric Pressure: 100.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: Car: 9Vd.c. ("AA" size battery x 6)

Measurement Data

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4804.00	Н	6.3	61.2	74.0	-12.8
7206.00	Н	13.5	61.5	74.0	-12.5
9608.00	Н	13.2	62.1	74.0	-11.9
12010.00	Н	18.5	65.2	74.0	-8.8
14412.00	Н	19.2	64.4	74.0	-9.6
16814.00	Н	25.4	63.5	74.0	-10.5
19216.00	Н	27.3	65.2	74.0	-8.8
21618.00	Н	29.3	65.5	74.0	-8.5
24020.00	Н	32.1	64.4	74.0	-9.6
26422.00	Н	33.9	64.2	74.0	-9.8

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4804.00	V	6.3	61.3	74.0	-12.7
7206.00	V	13.5	60.8	74.0	-13.2
9608.00	V	13.2	61.6	74.0	-12.4
12010.00	V	18.5	62.8	74.0	-11.2
14412.00	V	19.2	63.2	74.0	-10.8
16814.00	V	25.4	65.0	74.0	-9.0
19216.00	V	27.3	65.4	74.0	-8.6
21618.00	V	29.3	65.1	74.0	-8.9
24020.00	V	32.1	64.6	74.0	-9.4
26422.00	V	33.9	65.1	74.0	-8.9

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

Detection mode: #Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4804.00	Н	6.3	**41.2	54.0	-12.8
7206.00	Н	13.5	**41.5	54.0	-12.5
9608.00	Н	13.2	**42.1	54.0	-11.9
12010.00	Н	18.5	**45.2	54.0	-8.8
14412.00	Н	19.2	**44.4	54.0	-9.6
16814.00	Н	25.4	**43.5	54.0	-10.5
19216.00	Н	27.3	**45.2	54.0	-8.8
21618.00	Н	29.3	**45.5	54.0	-8.5
24020.00	Н	32.1	**44.4	54.0	-9.6
26422.00	Н	33.9	**44.2	54.0	-9.8

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4804.00	V	6.3	**41.3	54.0	-12.7
7206.00	V	13.5	**40.8	54.0	-13.2
9608.00	V	13.2	**41.6	54.0	-12.4
12010.00	V	18.5	**42.8	54.0	-11.2
14412.00	V	19.2	**43.2	54.0	-10.8
16814.00	V	25.4	**45.0	54.0	-9.0
19216.00	V	27.3	**45.4	54.0	-8.6
21618.00	V	29.3	**45.1	54.0	-8.9
24020.00	V	32.1	**44.6	54.0	-9.4
26422.00	V	33.9	**45.1	54.0	-8.9

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

Therefore, -20dB is taken.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.0629) = -24.03dB



Measurement Data

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4880.00	Н	6.3	62.1	74.0	-11.9
7320.00	Н	13.5	62.6	74.0	-11.4
9760.00	Н	13.2	62.1	74.0	-11.9
12200.00	Н	18.5	61.8	74.0	-12.2
14640.00	Н	19.2	62.9	74.0	-11.1
17080.00	Н	25.4	66.7	74.0	-7.3
19520.00	Н	27.3	65.5	74.0	-8.5
21960.00	Н	29.3	66.6	74.0	-7.4
24400.00	Н	32.1	67.4	74.0	-6.6
26840.00	Н	33.9	66.4	74.0	-7.6

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dB V/m)	Margin (dB)
4880.00	V	6.3	60.9	74.0	-13.1
7320.00	V	13.5	63.8	74.0	-10.2
9760.00	V	13.2	62.4	74.0	-11.6
12200.00	V	18.5	62.1	74.0	-11.9
14640.00	V	19.2	64.6	74.0	-9.4
17080.00	V	25.4	67.8	74.0	-6.2
19520.00	V	27.3	67.3	74.0	-6.7
21960.00	V	29.3	67.1	74.0	-6.9
24400.00	V	32.1	67.6	74.0	-6.4
26840.00	V	33.9	65.6	74.0	-8.4

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

Detection mode: #Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4880.00	Н	6.3	**42.1	54.0	-11.9
7320.00	Н	13.5	**42.6	54.0	-11.4
9760.00	Н	13.2	**42.1	54.0	-11.9
12200.00	Н	18.5	**41.8	54.0	-12.2
14640.00	Н	19.2	**42.9	54.0	-11.1
17080.00	Н	25.4	**46.7	54.0	-7.3
19520.00	Н	27.3	**45.5	54.0	-8.5
21960.00	Н	29.3	**46.6	54.0	-7.4
24400.00	Н	32.1	**47.4	54.0	-6.6
26840.00	Н	33.9	**46.4	54.0	-7.6

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBµV/m)	Margin (dB)
4880.00	V	6.3	**40.9	54.0	-13.1
7320.00	V	13.5	**43.8	54.0	-10.2
9760.00	V	13.2	**42.4	54.0	-11.6
12200.00	V	18.5	**42.1	54.0	-11.9
14640.00	V	19.2	**44.6	54.0	-9.4
17080.00	V	25.4	**47.8	54.0	-6.2
19520.00	V	27.3	**47.3	54.0	-6.7
21960.00	V	29.3	**47.1	54.0	-6.9
24400.00	V	32.1	**47.6	54.0	-6.4
26840.00	V	33.9	**45.6	54.0	-8.4

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

Therefore, -20dB is taken.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.0629) = -24.03dB



Measurement Data

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

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
4956.00	Н	6.3	61.5	74.0	-12.5
7434.00	Н	13.5	63.2	74.0	-10.8
9912.00	Н	13.2	62.8	74.0	-11.2
12390.00	Н	18.5	61.6	74.0	-12.4
14868.00	Н	19.2	66.4	74.0	-7.6
17346.00	Н	26.2	65.5	74.0	-8.5
19824.00	Н	27.3	66.6	74.0	-7.4
22302.00	Н	29.3	65.1	74.0	-8.9
24780.00	Н	32.1	65.7	74.0	-8.3
27258.00	Н	33.9	65.8	74.0	-8.2

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBμV/m)	Margin (dB)
4956.00	V	6.3	61.6	74.0	-12.4
7434.00	V	13.5	63.3	74.0	-10.7
9912.00	V	13.2	64.0	74.0	-10
12390.00	V	18.5	61.7	74.0	-12.3
14868.00	V	19.2	64.7	74.0	-9.3
17346.00	V	26.2	65.6	74.0	-8.4
19824.00	V	27.3	66.4	74.0	-7.6
22302.00	V	29.3	65.8	74.0	-8.2
24780.00	V	32.1	66.9	74.0	-7.1
27258.00	V	33.9	66.1	74.0	-7.9

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz



Measurement Data

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

Detection mode: #Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
4956.00	Н	6.3	**41.5	54.0	-12.5
7434.00	Н	13.5	**43.2	54.0	-10.8
9912.00	Н	13.2	**42.8	54.0	-11.2
12390.00	Н	18.5	**41.6	54.0	-12.4
14868.00	Н	19.2	**46.4	54.0	-7.6
17346.00	Н	26.2	**45.5	54.0	-8.5
19824.00	Н	27.3	**46.6	54.0	-7.4
22302.00	Н	29.3	**45.1	54.0	-8.9
24780.00	Н	32.1	**45.7	54.0	-8.3
27258.00	Н	33.9	**45.8	54.0	-8.2

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
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12390.00	V	18.5	**41.7	54.0	-12.3
14868.00	V	19.2	**44.7	54.0	-9.3
17346.00	V	26.2	**45.6	54.0	-8.4
19824.00	V	27.3	**46.4	54.0	-7.6
22302.00	V	29.3	**45.8	54.0	-8.2
24780.00	V	32.1	**46.9	54.0	-7.1
27258.00	V	33.9	**46.1	54.0	-7.9

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Therefore, -20dB is taken.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.0629) = -24.03dB



Radiated Emissions (30MHz - 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: ANSI C63.4

Test Date(s): 2013-04-16

Temperature: 23.0 °C

Humidity: 68.0 %

Atmospheric Pressure: 100.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: Car: 9Vd.c. ("AA" size battery x 6) /

Remote: 6Vd.c. ("AA" size battery x 4)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μV/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500



Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dB V/m)	Limit at 3m (dB V/m)	Margin (dB)
38.68	Н	23.1	40.0	-16.9
117.88	Н	20.4	43.5	-23.1
215.16	Н	20.2	43.5	-23.3
258.04	Н	21.2	46.0	-24.8
373.56	Н	25.6	46.0	-20.4
440.52	Н	26.1	46.0	-19.9

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBμV/m)	Margin (dB)
38.68	V	23.6	40.0	-16.4
117.88	V	20.5	43.5	-23.0
215.16	V	20.3	43.5	-23.2
258.04	V	21.7	46.0	-24.3
373.56	V	25.5	46.0	-20.5
440.52	V	26.3	46.0	-19.7

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): 2013-04-16
Temperature: 23.0 °C
Humidity: 68.0 %
Atmospheric Pressure: 100.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: Car: 9Vd.c. ("AA" size battery x 6)

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:

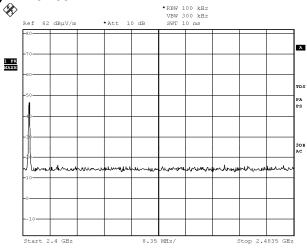
Ellinis for Frequency funge of Fundamental Ellinssion.				
Frequency	FCC Limits			
[MHz]	[MHz]			
2402.00 - 2478.00	2400 – 2483.5			

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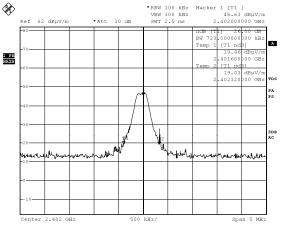


Measurement Data:

Test Result of Frequency Range of Fundamental Emission: PASS Lowest Frequency – 2402.00MHz



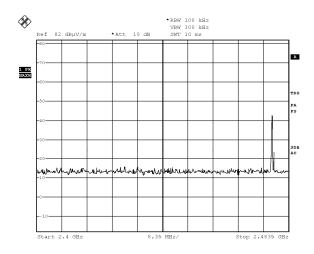
Test Result of 26dB Bandwidth of Fundamental Emission: PASS Lowest Frequency – 2402.00MHz



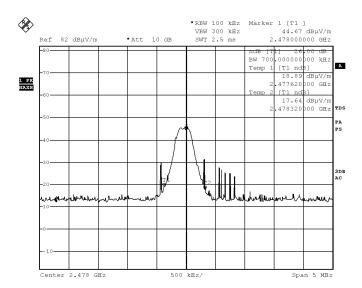


Measurement Data:

Test Result of Frequency Range of Fundamental Emission: PASS Highest Frequency – 2478.00MHz



Test Result of 26dB Bandwidth of Fundamental Emission: PASS Highest Frequency – 2478.00MHz





Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (70.0msec) never exceeds a series of 1 pulse (4.4msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered (4.4) per 70.0msec = 6.29% duty cycle.

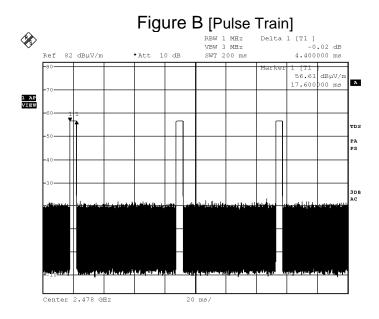
Remarks:

Duty Cycle Correction = 20Log(0.0629) = -24.03dBTherefore, -20dB is taken.

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



Measurement Data:





Photographs of EUT Front View of the product



Side View of the product



Battery Cover



Inner Circuit Bottom View



Rear View of the product



Battery Compartment



Antenna



Inner Circuit Bottom View



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Photographs of EUT

Inner Circuit View



Inner Circuit View



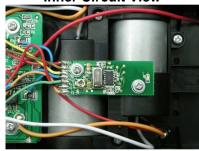
Inner Circuit View



Inner Circuit View



Inner Circuit View



Inner Circuit View









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