



FCC REPORT

Applicant: Skyrocket Toys, LLC

Address of Applicant: 12910 Culver Blvd, Suite F, Los Angeles, CA 90066, U.S.A.

Equipment Under Test (EUT)

Product Name: Sky Viper Stunt Quad

Model No.: 01513

FCC ID: **O5301513TX24G**

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014

Date of sample receipt: April 24, 2015

Date of Test: April 24 - May 12, 2015

Date of report issued: May 12, 2015

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Lo
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	May 12, 2015	Original

Prepared By:

Edward Pan

Date:

May 12, 2015

Project Engineer

Check By:

Hank Yan

Date:

May 12, 2015

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4-2009 and ANSI C63.10-2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

5 General Information

5.1 Client Information

Applicant:	Skyrocket Toys, LLC
Address of Applicant:	12910 Culver Blvd, Suite F, Los Angeles, CA 90066, U.S.A.
Manufacturer:	Skyrocket Toys, LLC
Address of Manufacturer:	12910 Culver Blvd, Suite F, Los Angeles, CA 90066, U.S.A.
Factory:	Guangzhou Spinmark Electronics Technology Co., Ltd
Address of factory:	1/F & 2/F, Block A, 64 Songshan Road, Shilou Town, Panyu District, Guangzhou, China

5.2 General Description of E.U.T.

Product Name:	Sky Viper Stunt Quad
Model No.:	01513
Operation Frequency:	2410MHz ~ 2472MHz
Test Frequency:	Lowest channel: 2410MHz Middle channel: 2452MHz Highest channel: 2472MHz
Modulation technology:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	DC 6.0V(4 x "AAA"Size)

5.3 Test mode

Transmitting mode	Keep the EUT in transmitting mode.		
Remark	New battery is used during whole test		
Per-test mode.			
We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	87.48	91.66	83.87
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo)			

6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

6.1 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

7 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2014	Mar. 29 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 26 2014	June 25 2015
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 26 2014	June 25 2015
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2014	June 25 2015
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 26 2014	June 25 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June 26 2014	June 25 2015
9	Coaxial Cable	GTS	N/A	GTS211	June 26 2014	June 25 2015
10	Coaxial cable	GTS	N/A	GTS210	June 26 2014	June 25 2015
11	Coaxial Cable	GTS	N/A	GTS212	June 26 2014	June 25 2015
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 26 2014	June 25 2015
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 26 2014	June 25 2015
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2014	June 25 2015
15	Band filter	Amindeon	82346	GTS219	June 26 2014	June 25 2015

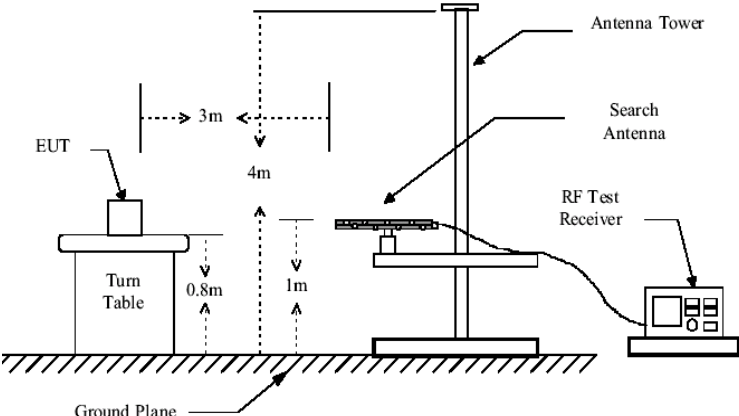
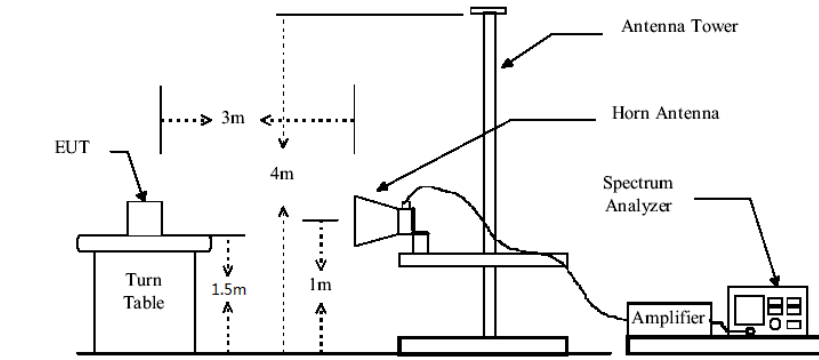
8 Test results and Measurement Data

8.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /249
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna: <i>The antenna is Integral antenna, the best case gain of the antenna is 2dBi</i>	
 RF Antenna	

8.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4:2009				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Value
	2400MHz-2483.5MHz		94.00		Average
			114.00		Peak
Limit: (Spurious Emissions)	Frequency		Limit (dBuV/m @3m)		Value
	30MHz-88MHz		40.00		Quasi-peak
	88MHz-216MHz		43.50		Quasi-peak
	216MHz-960MHz		46.00		Quasi-peak
	960MHz-1GHz		54.00		Quasi-peak
	Above 1GHz		54.00		Average
			74.00		Peak
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 m for below 1G or 1.5m for above 1GHz above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data				

	sheet.
Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

8.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	88.95	27.51	5.38	30.18	91.66	114.00	-22.34	Horizontal
2410.00	84.73	27.51	5.38	30.18	87.44	114.00	-26.56	Vertical
2452.00	88.45	27.56	5.45	30.09	91.37	114.00	-22.63	Horizontal
2452.00	84.50	27.56	5.45	30.09	87.42	114.00	-26.58	Vertical
2472.00	87.51	27.62	5.47	29.96	90.64	114.00	-23.36	Horizontal
2472.00	83.95	27.62	5.47	29.96	87.08	114.00	-26.92	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	74.31	27.51	5.38	30.18	77.02	94.00	-16.98	Horizontal
2410.00	70.75	27.51	5.38	30.18	73.46	94.00	-20.54	Vertical
2452.00	73.94	27.56	5.45	30.09	76.86	94.00	-17.14	Horizontal
2452.00	70.67	27.56	5.45	30.09	73.59	94.00	-20.41	Vertical
2472.00	72.60	27.62	5.47	29.96	75.73	94.00	-18.27	Horizontal
2472.00	69.72	27.62	5.47	29.96	72.85	94.00	-21.15	Vertical

Note: For fundamental frequency, RBW=2MHz, VBW =6MHz, peak detector for PK value and AV detector for AV value.

8.2.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
77.87	36.98	7.01	0.93	25.68	19.24	40.00	-20.76	Vertical
155.91	36.14	7.82	1.55	25.63	19.88	43.50	-23.62	Vertical
197.89	45.39	10.30	1.76	25.62	31.83	43.50	-11.67	Vertical
364.26	43.63	14.95	2.20	25.57	35.21	46.00	-10.79	Vertical
390.72	45.25	15.42	2.24	25.57	37.34	46.00	-8.66	Vertical
468.88	42.11	16.54	2.36	25.55	35.46	46.00	-10.54	Vertical
84.11	32.02	8.76	1.00	25.68	16.11	40.00	-23.89	Horizontal
89.90	30.68	10.64	1.06	25.67	16.71	43.50	-26.79	Horizontal
191.75	41.10	10.22	1.74	25.62	27.44	43.50	-16.06	Horizontal
312.18	30.97	13.54	2.10	25.58	21.03	46.00	-24.97	Horizontal
390.72	35.52	15.42	2.24	25.57	27.61	46.00	-18.39	Horizontal
468.88	34.89	16.54	2.36	25.55	28.24	46.00	-17.76	Horizontal

■ Above 1GHz

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4820.00	43.69	31.77	8.59	32.11	51.94	74.00	-22.06	Horizontal
7230.00	36.23	36.45	11.52	31.93	52.27	74.00	-21.73	Horizontal
9640.00	30.16	38.16	14.24	31.45	51.11	74.00	-22.89	Horizontal
12050.00	*					74.00		Horizontal
14460.00	*					74.00		Horizontal
4820.00	39.42	31.77	8.59	32.11	47.67	74.00	-26.33	Vertical
7230.00	34.27	36.45	11.52	31.93	50.31	74.00	-23.69	Vertical
9640.00	29.07	38.16	14.24	31.45	50.02	74.00	-23.98	Vertical
12050.00	*					74.00		Vertical
14460.00	*					74.00		Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4820.00	29.07	31.77	8.59	32.11	37.32	54.00	-16.68	Horizontal
7230.00	22.35	36.45	11.52	31.93	38.39	54.00	-15.61	Horizontal
9640.00	16.69	38.16	14.24	31.45	37.64	54.00	-16.36	Horizontal
12050.00	*					54.00		Horizontal
14460.00	*					54.00		Horizontal
4820.00	25.36	31.77	8.59	32.11	33.61	54.00	-20.39	Vertical
7230.00	20.88	36.45	11.52	31.93	36.92	54.00	-17.08	Vertical
9640.00	16.02	38.16	14.24	31.45	36.97	54.00	-17.03	Vertical
12050.00	*					54.00		Vertical
14460.00	*					54.00		Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

Test channel:	Middle channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	43.16	32.08	8.71	32.08	51.87	74.00	-22.13	Horizontal
7356.00	35.62	36.42	11.75	31.85	51.94	74.00	-22.06	Horizontal
9808.00	29.47	38.39	14.31	31.51	50.66	74.00	-23.34	Horizontal
12260.00	*					74.00		Horizontal
14712.00	*					74.00		Horizontal
4904.00	38.80	32.08	8.71	32.08	47.51	74.00	-26.49	Vertical
7356.00	33.72	36.42	11.75	31.85	50.04	74.00	-23.96	Vertical
9808.00	28.36	38.39	14.31	31.51	49.55	74.00	-24.45	Vertical
12260.00	*					74.00		Vertical
14712.00	*					74.00		Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	29.58	32.08	8.71	32.08	38.29	54.00	-15.71	Horizontal
7356.00	22.85	36.42	11.75	31.85	39.17	54.00	-14.83	Horizontal
9808.00	17.23	38.39	14.31	31.51	38.42	54.00	-15.58	Horizontal
12260.00	*					54.00		Horizontal
14712.00	*					54.00		Horizontal
4904.00	26.31	32.08	8.71	32.08	35.02	54.00	-18.98	Vertical
7356.00	22.06	36.42	11.75	31.85	38.38	54.00	-15.62	Vertical
9808.00	17.23	38.39	14.31	31.51	38.42	54.00	-15.58	Vertical
12260.00	*					54.00		Vertical
14712.00	*					54.00		Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4944.00	43.48	32.11	8.83	32.16	52.26	74.00	-21.74	Horizontal
7416.00	35.51	36.56	11.79	31.81	52.05	74.00	-21.95	Horizontal
9888.00	29.59	38.72	14.35	31.52	51.14	74.00	-22.86	Horizontal
12360.00	*					74.00		Horizontal
14832.00	*					74.00		Horizontal
4944.00	38.58	32.11	8.83	32.16	47.36	74.00	-26.64	Vertical
7416.00	33.79	36.56	11.79	31.81	50.33	74.00	-23.67	Vertical
9888.00	28.38	38.72	14.35	31.52	49.93	74.00	-24.07	Vertical
12360.00	*					74.00		Vertical
14832.00	*					74.00		Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4944.00	30.71	32.11	8.83	32.16	39.49	54.00	-14.51	Horizontal
7416.00	23.51	36.56	11.79	31.81	40.05	54.00	-13.95	Horizontal
9888.00	18.08	38.72	14.35	31.52	39.63	54.00	-14.37	Horizontal
12360.00	*					54.00		Horizontal
14832.00	*					54.00		Horizontal
4944.00	26.84	32.11	8.83	32.16	35.62	54.00	-18.38	Vertical
7416.00	22.83	36.56	11.79	31.81	39.37	54.00	-14.63	Vertical
9888.00	17.92	38.72	14.35	31.52	39.47	54.00	-14.53	Vertical
12360.00	*					54.00		Vertical
14832.00	*					54.00		Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

8.2.3 Bandedge emissions

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2310.00	43.18	27.91	5.30	34.11	42.28	74.00	-31.72	Horizontal
2390.00	47.69	27.59	5.38	34.01	46.65	74.00	-27.35	Horizontal
2400.00	50.64	27.55	5.40	34.00	49.59	74.00	-24.41	Horizontal
2310.00	40.53	27.91	5.30	34.11	39.63	74.00	-34.37	Vertical
2390.00	44.98	27.59	5.38	34.01	43.94	74.00	-30.06	Vertical
2400.00	46.81	27.55	5.40	34.00	45.76	74.00	-28.24	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2310.00	31.15	27.91	5.30	34.11	30.25	54.00	-23.75	Horizontal
2390.00	35.37	27.59	5.38	34.01	34.33	54.00	-19.67	Horizontal
2400.00	37.59	27.55	5.40	34.00	36.54	54.00	-17.46	Horizontal
2310.00	28.76	27.91	5.30	34.11	27.86	54.00	-26.14	Vertical
2390.00	33.44	27.59	5.38	34.01	32.40	54.00	-21.60	Vertical
2400.00	34.83	27.55	5.40	34.00	33.78	54.00	-20.22	Vertical

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2483.50	47.21	27.53	5.47	33.92	46.29	74.00	-27.71	Horizontal
2500.00	42.57	27.55	5.49	33.90	41.71	74.00	-32.29	Horizontal
2483.50	43.58	27.53	5.47	33.92	42.66	74.00	-31.34	Vertical
2500.00	39.44	27.55	5.49	33.90	38.58	74.00	-35.42	Vertical

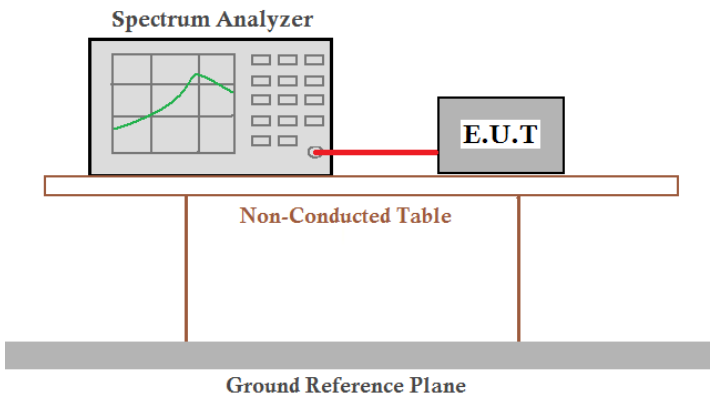
Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2483.50	32.31	27.53	5.47	33.92	31.39	54.00	-22.61	Horizontal
2500.00	28.28	27.55	5.49	33.90	27.42	54.00	-26.58	Horizontal
2483.50	29.64	27.53	5.47	33.92	28.72	54.00	-25.28	Vertical
2500.00	25.91	27.55	5.49	33.90	25.05	54.00	-28.95	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

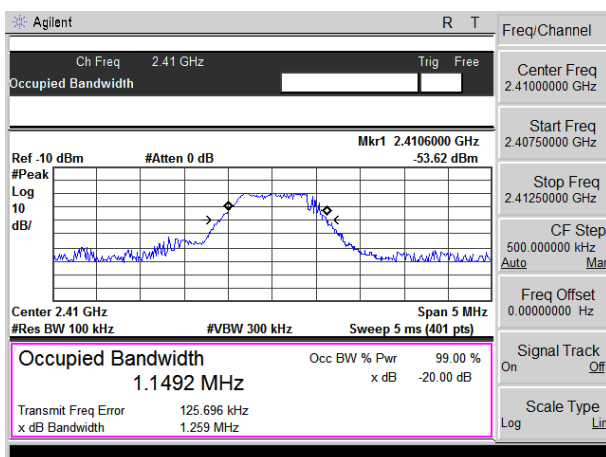
8.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2009
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

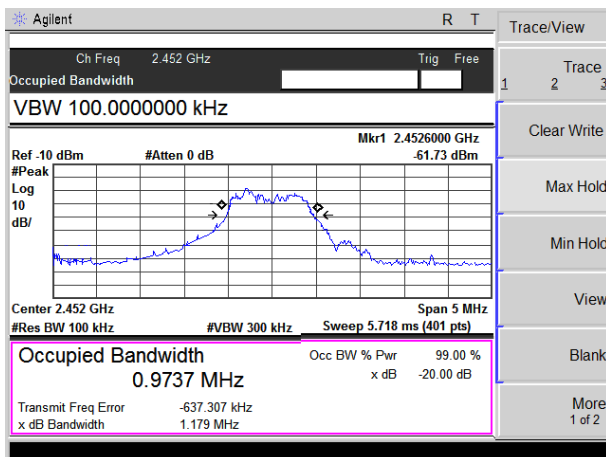
Measurement Data

Test channel (MHz)	20dB bandwidth(MHz)	Result
2410	1.259	Pass
2452	1.179	Pass
2472	1.312	Pass

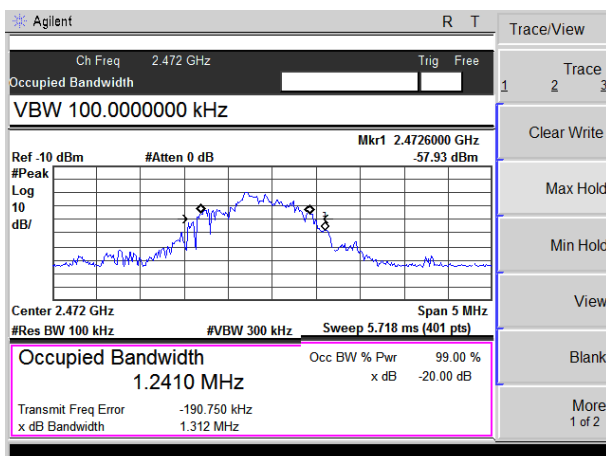
Test plot as follows:



2410MHz



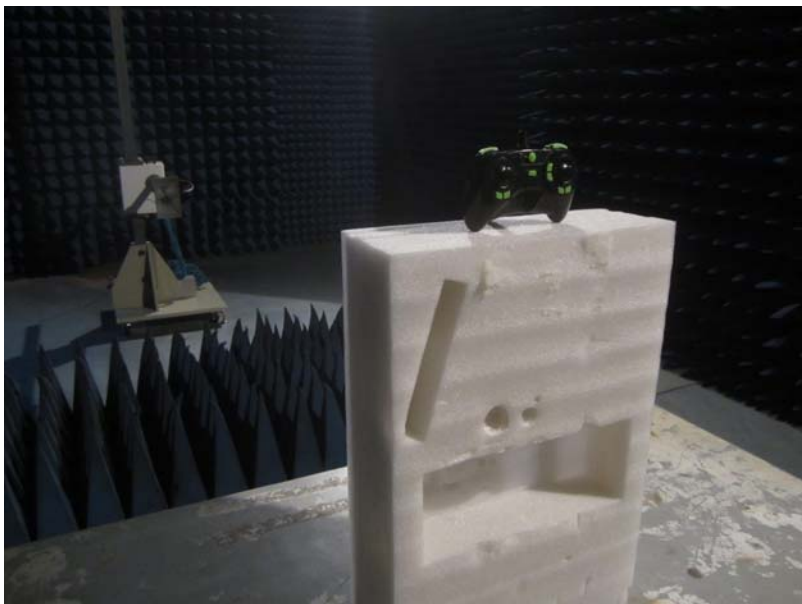
2452MHz



2472MHz

9 Test Setup Photo

Radiated Emission



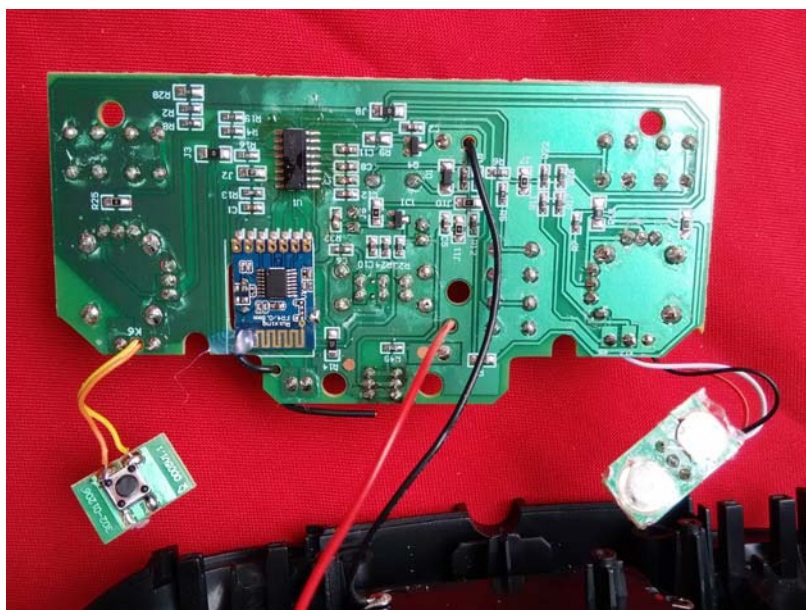
10 EUT Constructional Details











-----End-----