

FCC REPORT

Applicant: FLYSKY RC MODEL TECHNOLOGY CO., LTD

Address of Applicant: West building3, Huangjianyuan Ind, Park QIAOLI North Gate
Changping Town Dongguan China

Equipment Under Test (EUT)

Product Name: digital propotional radio control system

Model No.: FS-GT2F, GT2F, FS-A3

FCC ID: N4ZFLYSKYGT2F

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: March 20, 2014

Date of Test: March 20-26, 2014

Date of report issued: March 26, 2014

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.

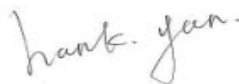
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2 Version

Version No.	Date	Description
00	March 26, 2014	Original

Prepared By:



Date:

March 26, 2014

Project Engineer

Check By:



Date:

March 26, 2014

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
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.

N/A: not applicable.

5 General Information

5.1 Client Information

Applicant:	FLYSKY RC MODEL TECHNOLOGY CO., LTD
Address of Applicant:	West building3, Huangjianyuan Ind, Park QIAOLI North Gate Changping Town Dongguan China
Manufacturer:	FLYSKY RC MODEL TECHNOLOGY CO., LTD
Address of Manufacturer:	West building3, Huangjianyuan Ind, Park QIAOLI North Gate Changping Town Dongguan China
Factory:	FLYSKY RC MODEL TECHNOLOGY CO., LTD
Address of factory :	West building3, Huangjianyuan Ind, Park QIAOLI North Gate Changping Town Dongguan China

5.2 General Description of EUT

Product Name:	digital propotional radio control system
Model No.:	FS-GT2F, GT2F, FS-A3
Operation Frequency:	2405.5MHz~2475MHz
Channel numbers:	16
Modulation technology:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	DC 6V(4*1.5V "AA" Battery)

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405.5	5	2425.5	9	2442.5	13	2460.5
2	2410.5	6	2430.0	10	2447.5	14	2465.0
3	2415.5	7	2434.0	11	2452.5	15	2470.0
4	2420.5	8	2437.5	12	2456.5	16	2475.0

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
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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)	104.54	107.09	105.38

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)

5.4 Description of Support Units

None.

5.5 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, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

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, June 26, 2013.

5.6 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

5.7 Other Information Requested by the Customer

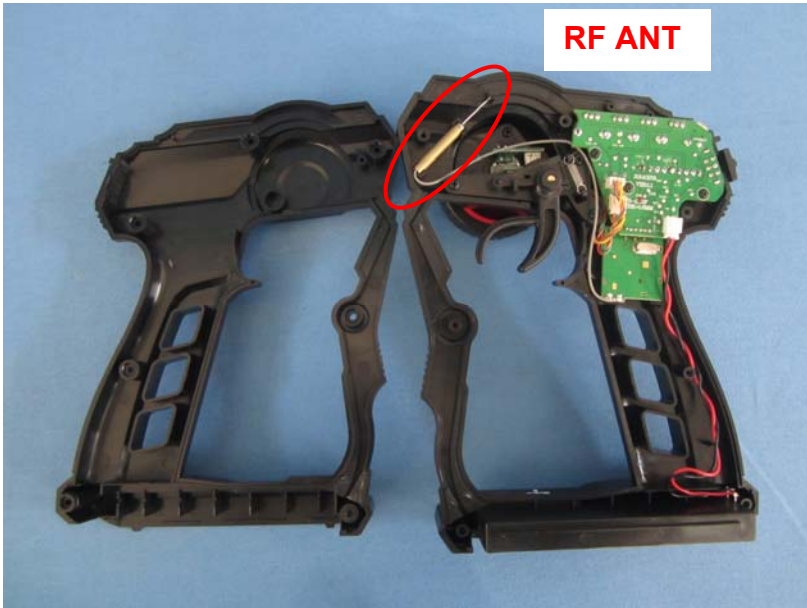
None.

6 Test Instruments list

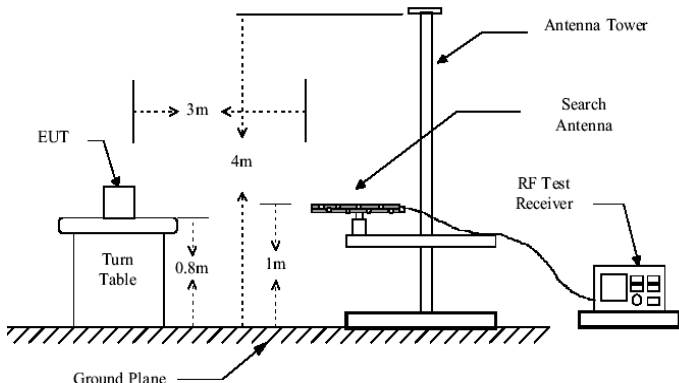
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2013	Mar. 28 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS536	Nov. 20, 2013	Nov. 19, 2014
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014
5	Loop Antenna	ZHINAN	ZN30900A	GTS534	Feb. 23 2014	Feb. 22 2015
6	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 23 2014	Feb. 22 2015
7	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2015
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014
11	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014
12	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014
13	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014
14	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014
15	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014
16	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014
17	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014

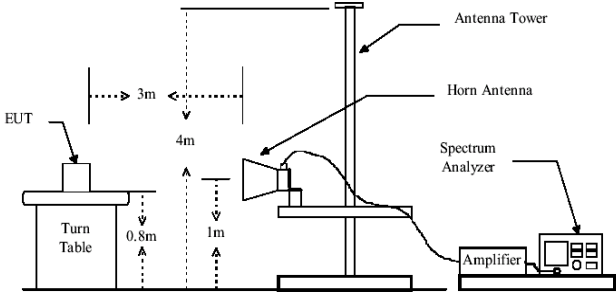
7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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.	
EUT Antenna: The antenna is Integral antenna, the best case gain of the antenna is 2dBi	
	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2003				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	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)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)	Value	Measurement Distance
	0.009MHz-1.705MHz		2400/F(KHz)	QP	300m
	0.490MHz-1.705MHz		24000/F(KHz)	QP	300m
	1.705MHz-30MHz		30	QP	30m
	30MHz-88MHz		100	QP	3m
	88MHz-216MHz		150	QP	
	216MHz-960MHz		200	QP	
	960MHz-1GHz		500	QP	
	Above 1GHz		500	Average	
			5000	Peak	
Test setup:	Below 1GHz				
					
	Above 1GHz				

	 The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a turn table at a height of 0.8m. The turn table is rotated 360 degrees. The EUT is positioned 3m away from the antenna tower. The antenna tower has a horn antenna at a height of 1m to 4m. The antenna is connected to a spectrum analyzer via an amplifier.
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters 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 Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

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
2405.50	103.03	27.57	5.40	30.12	105.88	114.00	-8.12	Vertical
2405.50	99.30	27.57	5.40	30.12	102.15	114.00	-11.85	Horizontal
2440.00	104.17	27.55	5.43	30.06	107.09	114.00	-6.91	Vertical
2440.00	100.59	27.55	5.43	30.06	103.51	114.00	-10.49	Horizontal
2475.00	103.12	27.52	5.47	29.99	106.12	114.00	-7.88	Vertical
2475.00	99.97	27.52	5.47	29.99	102.97	114.00	-11.03	Horizontal

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
2405.50	89.73	27.57	5.40	30.12	92.58	94.00	-1.42	Vertical
2405.50	88.46	27.57	5.40	30.12	91.31	94.00	-2.69	Horizontal
2440.00	90.14	27.55	5.43	30.06	93.06	94.00	-0.94	Vertical
2440.00	88.83	27.55	5.43	30.06	91.75	94.00	-2.25	Horizontal
2475.00	89.85	27.52	5.47	29.99	92.85	94.00	-1.15	Vertical
2475.00	88.72	27.52	5.47	29.99	91.72	94.00	-2.28	Horizontal

According to the follow transmitter output power (P_t) formula:

$$P_t = (E \times d)^2 / (30 \times g_t)$$

P_t =transmitter output power in watts

g_t =numeric gain of the transmitting antenna (unitless)

E =electric field strength in V/m

d = measurement distance in meters (m).

According to the above test data, $E_{max}=107.09\text{dBuV/m}=0.2262\text{V/m}$, $d=3\text{m}$, $g_t=1.585$

$$P_t = (E \times d)^2 / (30 \times g_t) = (0.2262 \times 3)^2 / (30 \times 1.585) = 0.009685\text{W} = 9.685\text{mW}$$

7.2.2 Spurious emissions

■ Below 30MHz

Frequency (kHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit @3m (dBuV/m)	Over Limit (dB)	ANT. Polarization
164.00	61.42	21.58	0.20	0.00	83.20	103.31	-20.11	Vertical
733.00	*					70.30		Vertical
1250.00	*					65.67		Vertical
164.00	58.71	21.58	0.20	0.00	80.49	103.31	-22.82	Horizontal
733.00	*					70.30		Horizontal
1250.00	*					65.67		Horizontal

Remark:

1. Limit dBuV/m @3m = Limit dBuV/m @300m+ 80, Limit dBuV/m @3m = Limit dBuV/m @30m + 40
 2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- “*” , means this data is the too weak instrument of signal is unable to test.

■ Below 1GHz

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
59.44	43.18	14.73	0.86	31.94	26.83	40.00	-13.17	Vertical
66.73	47.48	12.02	0.91	31.90	28.51	40.00	-11.49	Vertical
96.10	39.09	14.90	1.16	31.75	23.40	43.50	-20.10	Vertical
231.72	40.86	13.72	2.02	32.15	24.45	46.00	-21.55	Vertical
651.94	38.42	20.65	3.92	31.12	31.87	46.00	-14.13	Vertical
958.79	38.30	23.49	5.08	31.22	35.65	46.00	-10.35	Vertical
53.32	37.95	15.10	0.80	31.95	21.90	40.00	-18.10	Horizontal
98.83	37.23	15.10	1.18	31.76	21.75	43.50	-21.75	Horizontal
278.07	39.57	14.63	2.26	32.17	24.29	46.00	-21.71	Horizontal
397.63	38.41	17.01	2.84	31.90	26.36	46.00	-19.64	Horizontal
597.22	37.73	20.40	3.71	31.06	30.78	46.00	-15.22	Horizontal
906.48	38.67	23.15	4.88	31.18	35.52	46.00	-10.48	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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4811.00	41.34	31.78	8.60	32.09	49.63	74.00	-24.37	Vertical
7216.50	31.10	36.15	11.66	31.99	46.92	74.00	-27.08	Vertical
9622.00	28.17	38.01	14.14	31.60	48.72	74.00	-25.28	Vertical
12025.00	*					74.00		Vertical
14430.00	*					74.00		Vertical
4811.00	44.50	31.78	8.60	32.09	52.79	74.00	-21.21	Horizontal
7216.50	29.33	36.15	11.66	31.99	45.15	74.00	-28.85	Horizontal
9622.00	29.79	38.01	14.14	31.60	50.34	74.00	-23.66	Horizontal
12025.00	*					74.00		Horizontal
14430.00	*					74.00		Horizontal

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
4811.00	29.11	31.78	8.60	32.09	37.40	54.00	-16.60	Vertical
7216.50	18.87	36.15	11.66	31.99	34.69	54.00	-19.31	Vertical
9622.00	15.94	38.01	14.14	31.60	36.49	54.00	-17.51	Vertical
12025.00	*					54.00		Vertical
14430.00	*					54.00		Vertical
4811.00	32.27	31.78	8.60	32.09	40.56	54.00	-13.44	Horizontal
7216.50	17.10	36.15	11.66	31.99	32.92	54.00	-21.08	Horizontal
9622.00	17.56	38.01	14.14	31.60	38.11	54.00	-15.89	Horizontal
12025.00	*					54.00		Horizontal
14430.00	*					54.00		Horizontal

Remark:

4. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. “*”, 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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	50.66	31.85	8.66	32.12	59.05	74.00	-14.95	Vertical
7320.00	29.36	36.37	11.72	31.89	45.56	74.00	-28.44	Vertical
9760.00	29.49	38.35	14.25	31.59	50.50	74.00	-23.50	Vertical
12210.00	*					74.00		Vertical
14652.00	*					74.00		Vertical
4880.00	42.10	31.85	8.66	32.12	50.49	74.00	-23.51	Horizontal
7320.00	29.15	36.37	11.72	31.89	45.35	74.00	-28.65	Horizontal
9760.00	28.82	38.35	14.25	31.59	49.83	74.00	-24.17	Horizontal
12210.00	*					74.00		Horizontal
14652.00	*					74.00		Horizontal

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
4880.00	38.32	31.85	8.66	32.12	46.71	54.00	-7.29	Vertical
7320.00	17.02	36.37	11.72	31.89	33.22	54.00	-20.78	Vertical
9760.00	17.15	38.35	14.25	31.59	38.16	54.00	-15.84	Vertical
12210.00	*					54.00		Vertical
14652.00	*					54.00		Vertical
4880.00	29.76	31.85	8.66	32.12	38.15	54.00	-15.85	Horizontal
7320.00	16.81	36.37	11.72	31.89	33.01	54.00	-20.99	Horizontal
9760.00	16.48	38.35	14.25	31.59	37.49	54.00	-16.51	Horizontal
12210.00	*					54.00		Horizontal
14652.00	*					54.00		Horizontal

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:	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
4950.00	52.61	31.91	8.71	32.16	61.07	74.00	-12.93	Vertical
7425.00	30.55	36.56	11.79	31.80	47.10	74.00	-26.90	Vertical
9900.00	29.77	38.81	14.35	31.85	51.08	74.00	-22.92	Vertical
12375.00	*					74.00		Vertical
14850.00	*					74.00		Vertical
4950.00	47.09	31.91	8.71	32.16	55.55	74.00	-18.45	Horizontal
7425.00	30.11	36.56	11.79	31.80	46.66	74.00	-27.34	Horizontal
9900.00	28.73	38.81	14.35	31.85	50.04	74.00	-23.96	Horizontal
12375.00	*					74.00		Horizontal
14850.00	*					74.00		Horizontal

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
4950.00	40.46	31.91	8.71	32.16	48.92	54.00	-5.08	Vertical
7425.00	18.40	36.56	11.79	31.80	34.95	54.00	-19.05	Vertical
9900.00	17.62	38.81	14.35	31.85	38.93	54.00	-15.07	Vertical
12375.00	*					54.00		Vertical
14850.00	*					54.00		Vertical
4950.00	34.94	31.91	8.71	32.16	43.40	54.00	-10.60	Horizontal
7425.00	17.96	36.56	11.79	31.80	34.51	54.00	-19.49	Horizontal
9900.00	16.58	38.81	14.35	31.85	37.89	54.00	-16.11	Horizontal
12375.00	*					54.00		Horizontal
14850.00	*					54.00		Horizontal

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.

7.2.3 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
2390.00	60.08	27.59	5.38	30.18	62.87	74.00	-11.13	Horizontal
2400.00	69.81	27.58	5.39	30.18	72.60	74.00	-1.40	Horizontal
2390.00	61.23	27.59	5.38	30.18	64.02	74.00	-9.98	Vertical
2400.00	71.09	27.58	5.39	30.18	73.88	74.00	-0.12	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
2390.00	36.25	27.59	5.38	30.18	39.04	54.00	-14.96	Horizontal
2400.00	41.77	27.58	5.39	30.18	44.56	54.00	-9.44	Horizontal
2390.00	39.30	27.59	5.38	30.18	42.09	54.00	-11.91	Vertical
2400.00	45.22	27.58	5.39	30.18	48.01	54.00	-5.99	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	66.60	27.53	5.47	29.93	69.67	74.00	-4.33	Horizontal
2500.00	57.10	27.55	5.49	29.93	60.21	74.00	-13.79	Horizontal
2483.50	68.71	27.53	5.47	29.93	71.78	74.00	-2.22	Vertical
2500.00	60.99	27.55	5.49	29.93	64.10	74.00	-9.90	Vertical

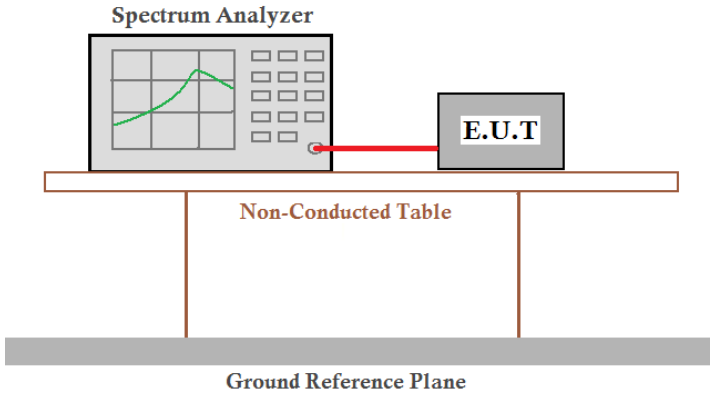
Average value:

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	43.67	27.53	5.47	29.93	46.74	54.00	-7.26	Horizontal
2500.00	39.53	27.55	5.49	29.93	42.64	54.00	-11.36	Horizontal
2483.50	45.03	27.53	5.47	29.93	48.10	54.00	-5.90	Vertical
2500.00	39.35	27.55	5.49	29.93	42.46	54.00	-11.54	Vertical

Remark:

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

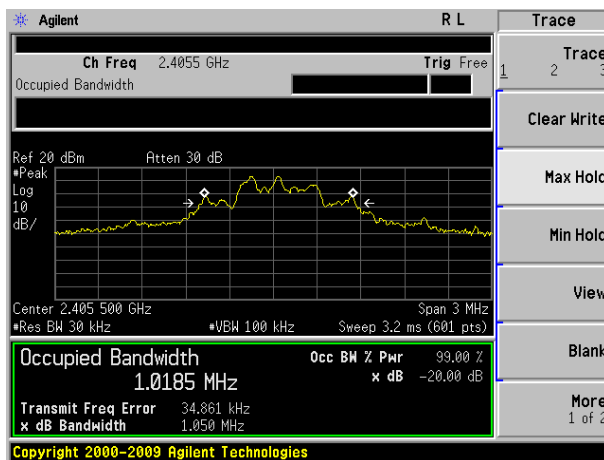
7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2003
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 5.8 for details
Test mode:	Transmitting mode
Test results:	Pass

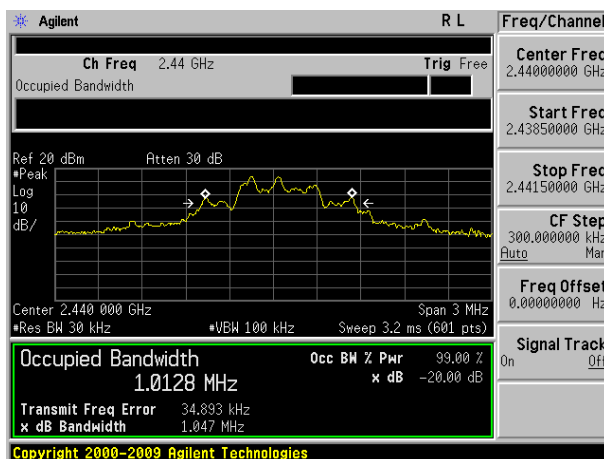
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.050	Pass
Middle	1.047	Pass
Highest	1.048	Pass

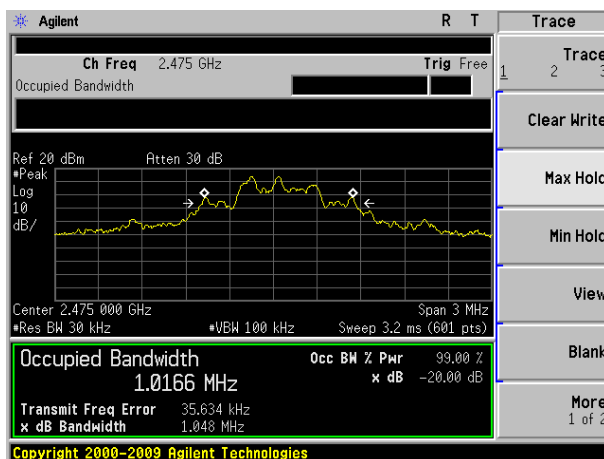
Test plot as follows:



Lowest channel



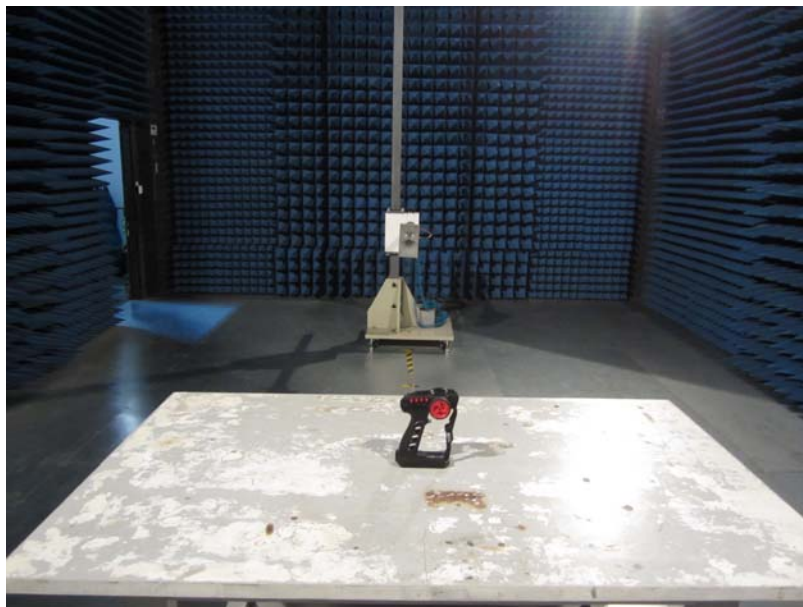
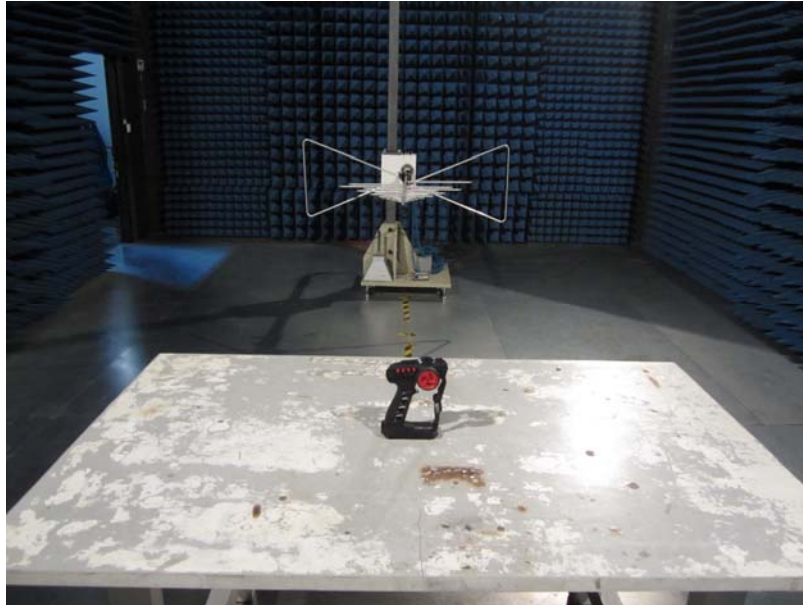
Middle channel



Highest channel

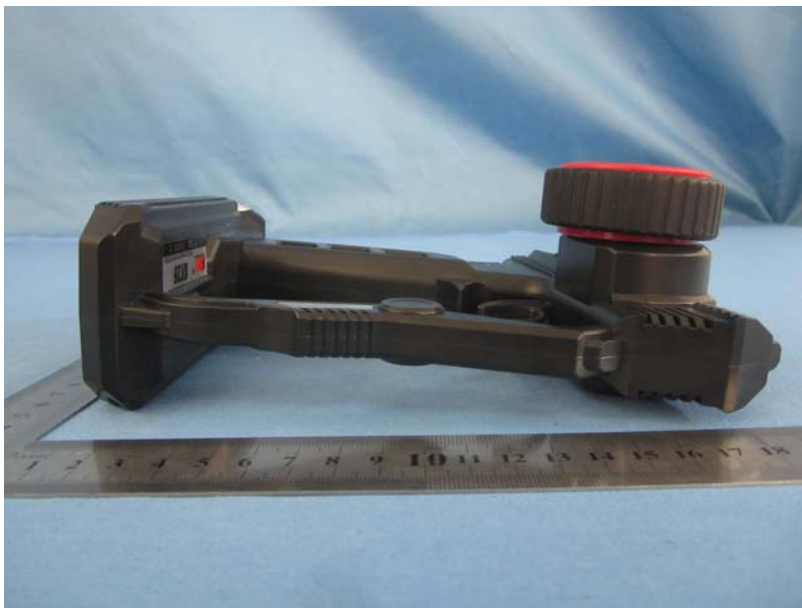
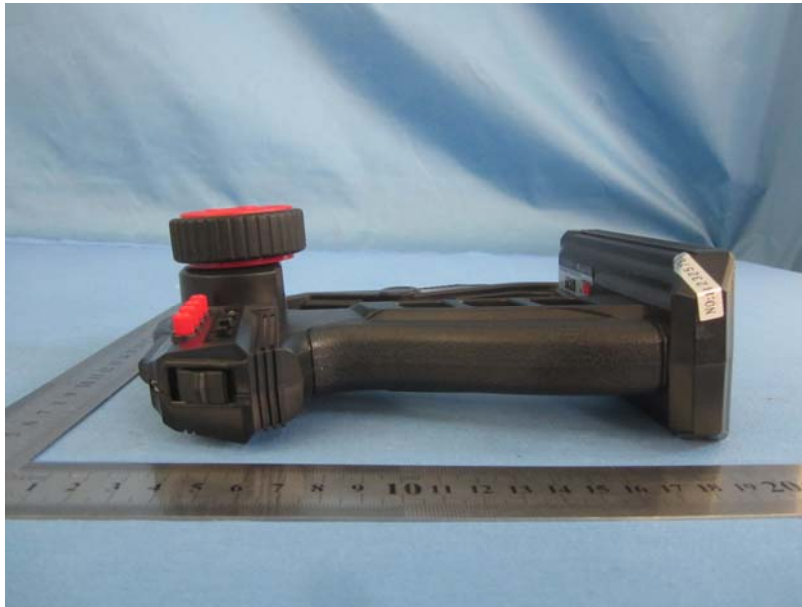
8 Test Setup Photo

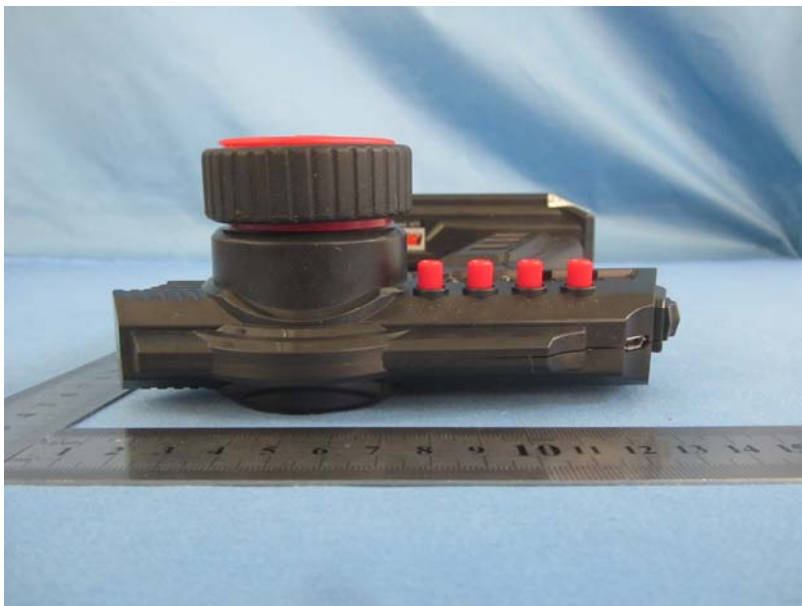
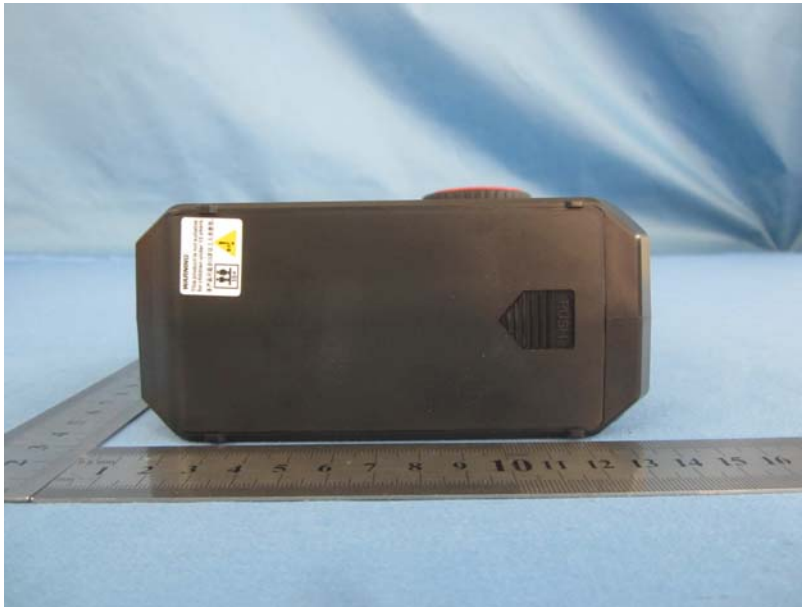
Radiated Emission



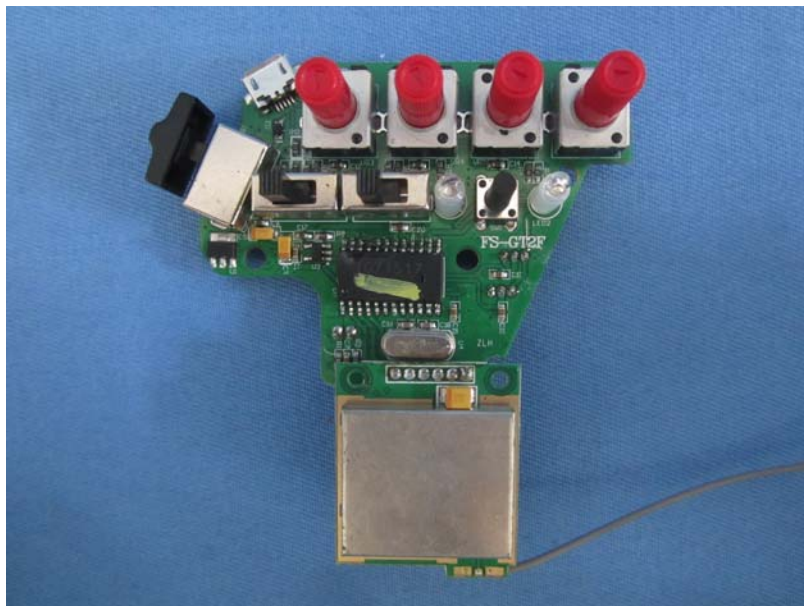
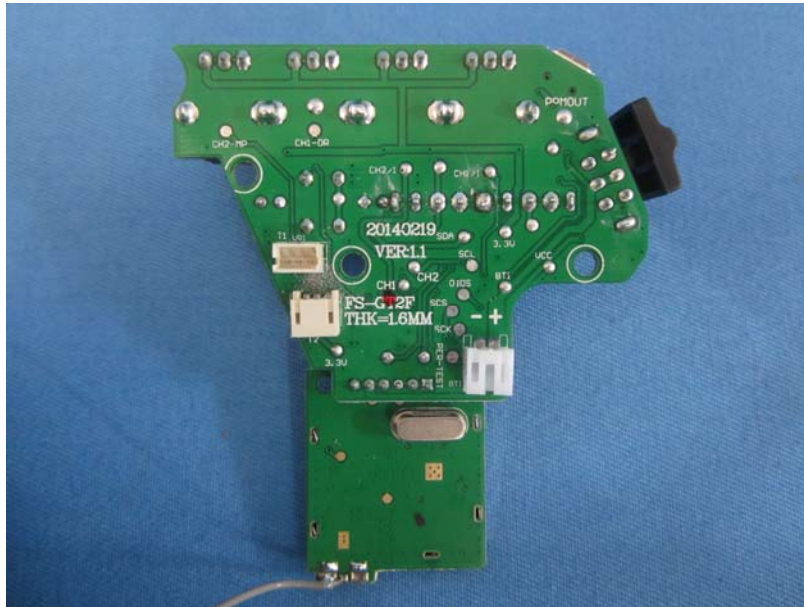
9 EUT Constructional Details

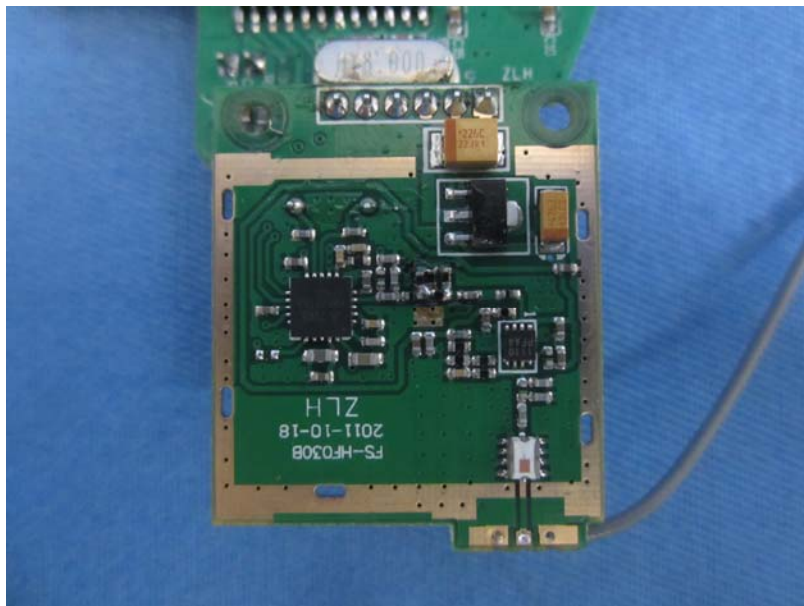
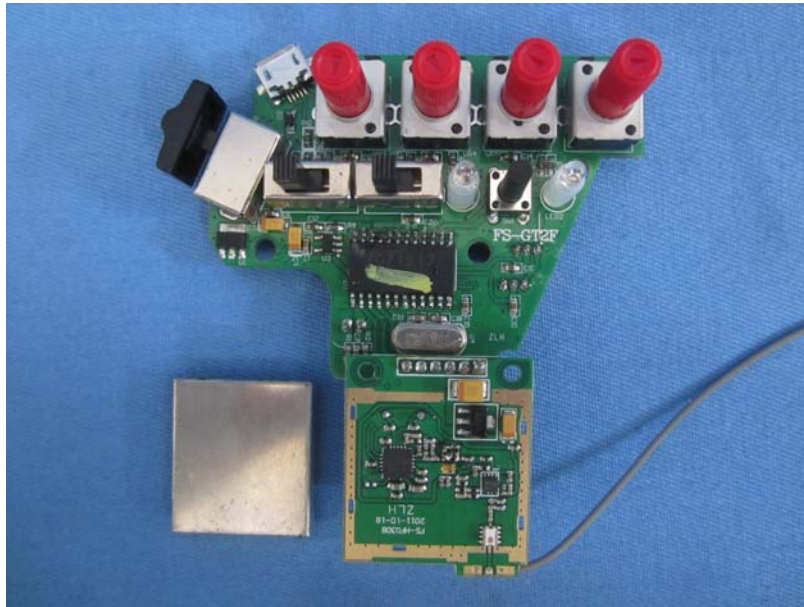












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