

FCC REPORT

Applicant: Guangzhou Chiyuan Electronic Co.,Ltd

Address of Applicant: 2/F,NO.1 Bldg,Boyl Industrial Garden 4th Gongye Rd, zhicun,
Dashi Street, Panyu Dis Guangzhou China

Equipment Under Test (EUT)

Product Name: Helicopter

Model No.: H-6E, H-6Q, H-4, H-4Q

FCC ID: V6KHCP80

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

Date of sample receipt: July 01, 2014

Date of Test: July 15-18, 2014

Date of report issued: July 18, 2014

Test Result : PASS *

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

Authorized Signature:

A circular blue ink stamp for GTS (Global United Technology Services Co., Ltd.) is visible. The stamp contains the text "GTS", "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD.", and "FCC TESTING". A handwritten signature in black ink is written over the stamp.

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	July 18, 2014	Original

Prepared By:

Edward Pan

Date:

July 18, 2014

Project Engineer

Check By:

Hank Yan

Date:

July 18, 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.

5 General Information

5.1 Client Information

Applicant:	Guangzhou Chiyuan Electronic Co.,Ltd
Address of Applicant:	2/F,NO.1 Bldg,Boyl Industrial Garden 4th Gongye Rd, zhicun, Dashi Street, Panyu Dis Guangzhou China
Manufacturer/Factory:	Guangzhou Chiyuan Electronic Co.,Ltd
Address of Manufacturer/Factory:	2/F,NO.1 Bldg,Boyl Industrial Garden 4th Gongye Rd, zhicun, Dashi Street, Panyu Dis Guangzhou China

5.2 General Description of EUT

Product Name:	Helicopter
Model No.:	H-6E, H-6Q, H-4, H-4Q
Operation Frequency:	2405MHz~2462MHz
Channel numbers:	20
Modulation type:	GFSK
Antenna Type:	Integral Antenna
Antenna gain:	2dBi
Power supply:	DC 6.0V

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2431MHz
The Highest channel	2462MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode with GFSK modulation.
Remark: new battery is used during all 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)	98.37	102.40	99.52

Final Test Mode:

According to ANSI C63.4 standards, the test results is the "worst setup":

Y axis (see the test setup photo)

5.4 Description of Support Units

N/A

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

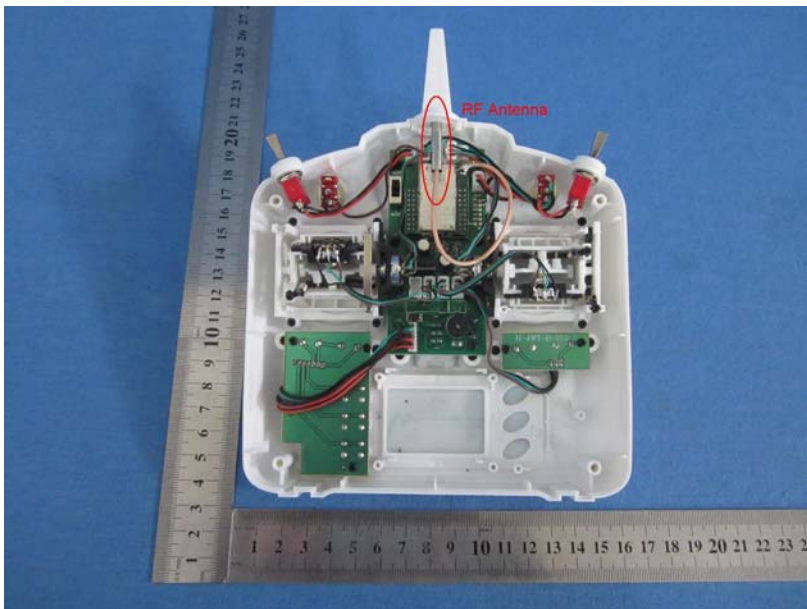
None.

6 Test Instruments list

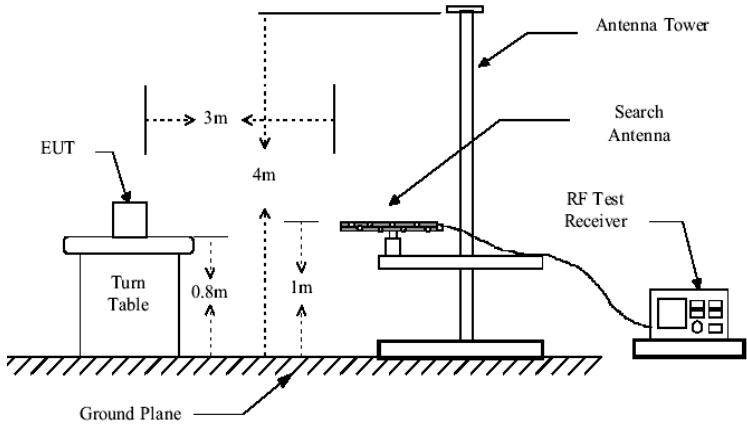
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2014	Mar. 27 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 05 2013	Dec. 04 2014
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 01 2014	Jun. 30, 2015
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 23 2014	Feb. 22 2015
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2014	June 28 2015
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 01 2014	Jun. 30, 2015
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 01 2014	Jun. 30, 2015
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015

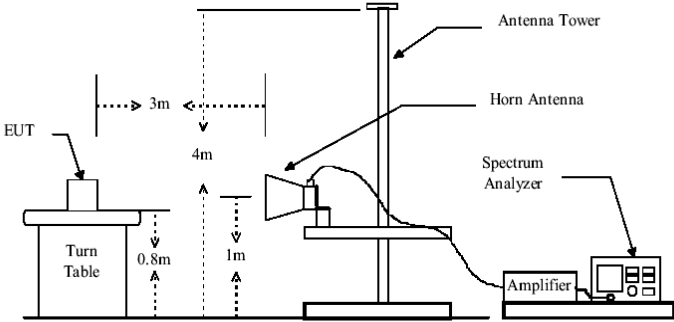
7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: <p>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.</p>	
E.U.T Antenna: <p><i>The antenna is Integral Antenna, the best case gain of the antenna is 2dBi</i></p>	
	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
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 (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
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 setup:	Below 1GHz				
					
	Above 1GHz				

	 <p>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 3m away from an Antenna Tower. The Antenna Tower has a Horn Antenna at a height of 1m to 4m. The Antenna Tower is connected to a Spectrum Analyzer via an Amplifier.</p>
Test Procedure:	<ol style="list-style-type: none"> 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 6.0 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
2405.00	100.55	27.57	5.40	33.99	99.53	114.00	-14.47	Vertical
2405.00	102.67	27.57	5.40	33.99	101.65	114.00	-12.35	Horizontal
2431.00	99.75	27.55	5.43	33.96	98.77	114.00	-15.23	Vertical
2431.00	102.17	27.55	5.43	33.96	101.19	114.00	-12.81	Horizontal
2462.00	100.83	27.52	5.47	33.92	99.90	114.00	-14.10	Vertical
2462.00	103.33	27.52	5.47	33.92	102.40	114.00	-11.60	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
2405.00	87.59	27.57	5.40	33.99	86.57	94.00	-7.43	Vertical
2405.00	91.27	27.57	5.40	33.99	90.25	94.00	-3.75	Horizontal
2431.00	87.36	27.55	5.43	33.96	86.38	94.00	-7.62	Vertical
2431.00	90.51	27.55	5.43	33.96	89.53	94.00	-4.47	Horizontal
2462.00	87.95	27.52	5.47	33.92	87.02	94.00	-6.98	Vertical
2462.00	91.94	27.52	5.47	33.92	91.01	94.00	-2.99	Horizontal

7.2.2 Spurious emissions

■ 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
34.04	41.65	14.31	0.60	32.06	24.50	40.00	-15.50	Vertical
46.34	39.56	15.46	0.73	31.99	23.76	40.00	-16.24	Vertical
59.23	40.07	14.74	0.85	31.94	23.72	40.00	-16.28	Vertical
95.76	38.60	14.90	1.16	31.74	22.92	43.50	-20.58	Vertical
417.64	38.08	17.43	2.93	31.83	26.61	46.00	-19.39	Vertical
636.13	37.49	20.59	3.86	31.10	30.84	46.00	-15.16	Vertical
35.50	37.61	14.44	0.61	32.06	20.60	40.00	-19.40	Horizontal
60.28	37.88	14.69	0.86	31.94	21.49	40.00	-18.51	Horizontal
107.51	37.80	14.49	1.26	31.80	21.75	43.50	-21.75	Horizontal
233.35	38.76	13.78	2.04	32.16	22.42	46.00	-23.58	Horizontal
410.38	37.71	17.26	2.91	31.86	26.02	46.00	-19.98	Horizontal
793.40	37.92	21.96	4.43	31.31	33.00	46.00	-13.00	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
4810.00	31.79	31.78	8.60	32.09	40.08	74.00	-12.42	Vertical
7215.00	29.53	36.15	11.66	31.99	45.35	74.00	-9.22	Vertical
9620.00	27.86	38.01	14.14	31.60	48.41	74.00	-24.02	Vertical
12025.00	*					74.00		Vertical
14430.00	*					74.00		Vertical
4810.00	30.67	31.78	8.60	32.09	38.96	74.00	-35.04	Horizontal
7215.00	29.89	36.15	11.66	31.99	45.71	74.00	-28.29	Horizontal
9620.00	27.41	38.01	14.14	31.60	47.96	74.00	-26.04	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
4810.00	21.54	31.78	8.60	32.09	29.83	54.00	-24.17	Vertical
7215.00	19.47	36.15	11.66	31.99	35.29	54.00	-18.71	Vertical
9620.00	17.95	38.01	14.14	31.60	38.50	54.00	-15.50	Vertical
12025.00	*					54.00		Vertical
14430.00	*					54.00		Vertical
4810.00	20.84	31.78	8.60	32.09	29.13	54.00	-24.87	Horizontal
7215.00	20.01	36.15	11.66	31.99	35.83	54.00	-18.17	Horizontal
9620.00	17.91	38.01	14.14	31.60	38.46	54.00	-15.54	Horizontal
12025.00	*					54.00		Horizontal
14430.00	*					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:	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
4862.00	31.91	31.83	8.64	32.11	40.27	74.00	-33.73	Vertical
7293.00	28.65	36.33	11.70	31.92	44.76	74.00	-29.24	Vertical
9848.00	27.44	38.62	14.31	31.74	48.63	74.00	-25.37	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4862.00	31.92	31.83	8.64	32.11	40.28	74.00	-33.72	Horizontal
7293.00	29.35	36.33	11.70	31.92	45.46	74.00	-28.54	Horizontal
9724.00	27.23	38.27	14.23	31.53	48.20	74.00	-25.80	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					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
4862.00	22.12	31.83	8.64	32.11	30.48	54.00	-23.52	Vertical
7293.00	18.63	36.33	11.70	31.92	34.74	54.00	-19.26	Vertical
9724.00	18.49	38.27	14.23	31.53	39.46	54.00	-14.54	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4862.00	22.04	31.83	8.64	32.11	30.40	54.00	-23.60	Horizontal
7293.00	19.73	36.33	11.70	31.92	35.84	54.00	-18.16	Horizontal
9724.00	17.84	38.27	14.23	31.53	38.81	54.00	-15.19	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					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
4924.00	31.41	31.89	8.70	32.15	39.85	74.00	-34.15	Vertical
7386.00	29.12	36.49	11.76	31.83	45.54	74.00	-28.46	Vertical
9724.00	28.41	38.27	14.23	31.53	49.38	74.00	-24.62	Vertical
12375.00	*					74.00		Vertical
14850.00	*					74.00		Vertical
4924.00	32.23	31.89	8.70	32.15	40.67	74.00	-33.33	Horizontal
7386.00	29.17	36.49	11.76	31.83	45.59	74.00	-28.41	Horizontal
9848.00	27.65	38.62	14.31	31.74	48.84	74.00	-25.16	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
4924.00	21.04	31.89	8.70	32.15	29.48	54.00	-24.52	Vertical
7386.00	19.64	36.49	11.76	31.83	36.06	54.00	-17.94	Vertical
9848.00	17.95	38.62	14.31	31.74	39.14	54.00	-14.86	Vertical
12375.00	*					54.00		Vertical
14850.00	*					54.00		Vertical
4924.00	22.15	31.89	8.70	32.15	30.59	54.00	-23.41	Horizontal
7386.00	19.48	36.49	11.76	31.83	35.90	54.00	-18.10	Horizontal
9848.00	17.50	38.62	14.31	31.74	38.69	54.00	-15.31	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

All of the restriction bands were tested, and only the data of worst case was exhibited.

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	41.83	27.59	5.38	30.18	44.62	74.00	-29.38	Horizontal
2400.00	58.47	27.58	5.39	30.18	61.26	74.00	-12.74	Horizontal
2390.00	42.28	27.59	5.38	30.18	45.07	74.00	-28.93	Vertical
2400.00	60.39	27.58	5.39	30.18	63.18	74.00	-10.82	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	32.62	27.59	5.38	30.18	35.41	54.00	-18.59	Horizontal
2400.00	43.79	27.58	5.39	30.18	46.58	54.00	-7.42	Horizontal
2390.00	32.49	27.59	5.38	30.18	35.28	54.00	-18.72	Vertical
2400.00	45.34	27.58	5.39	30.18	48.13	54.00	-5.87	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	43.81	27.53	5.47	29.93	46.88	74.00	-27.12	Horizontal
2500.00	43.18	27.55	5.49	29.93	46.29	74.00	-27.71	Horizontal
2483.50	44.48	27.53	5.47	29.93	47.55	74.00	-26.45	Vertical
2500.00	44.08	27.55	5.49	29.93	47.19	74.00	-26.81	Vertical

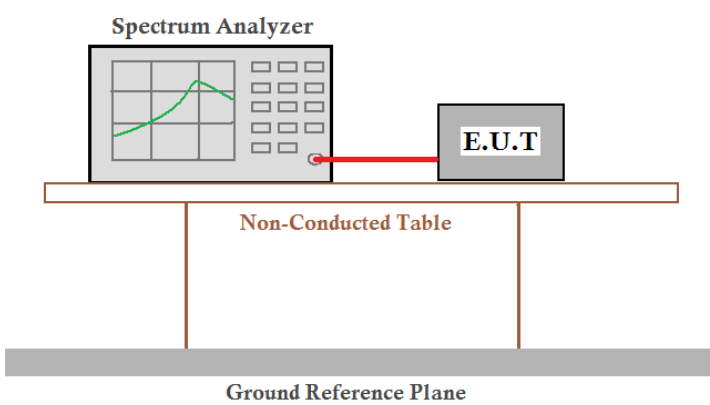
Average value:

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	35.43	27.53	5.47	29.93	38.50	54.00	-15.50	Horizontal
2500.00	33.58	27.55	5.49	29.93	36.69	54.00	-17.31	Horizontal
2483.50	36.56	27.53	5.47	29.93	39.63	54.00	-14.37	Vertical
2500.00	33.42	27.55	5.49	29.93	36.53	54.00	-17.47	Vertical

Remark:

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

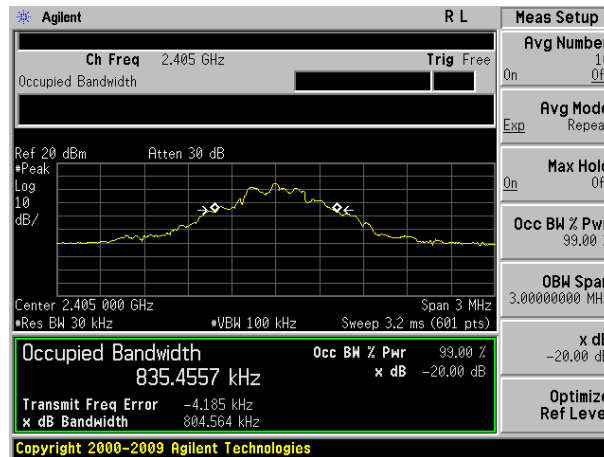
7.3 20dB Occupy Bandwidth

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:	 <p>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. The table is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

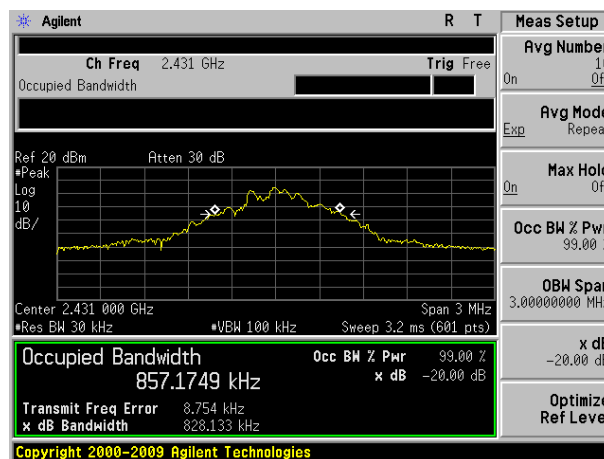
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	0.805	Pass
Middle	0.828	Pass
Highest	0.838	Pass

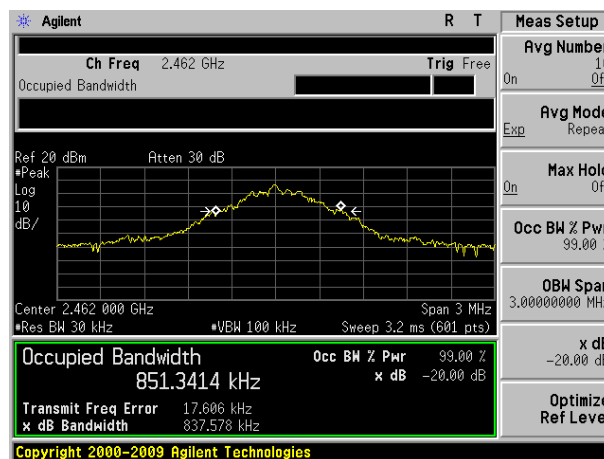
Test plot as follows:



Lowest channel



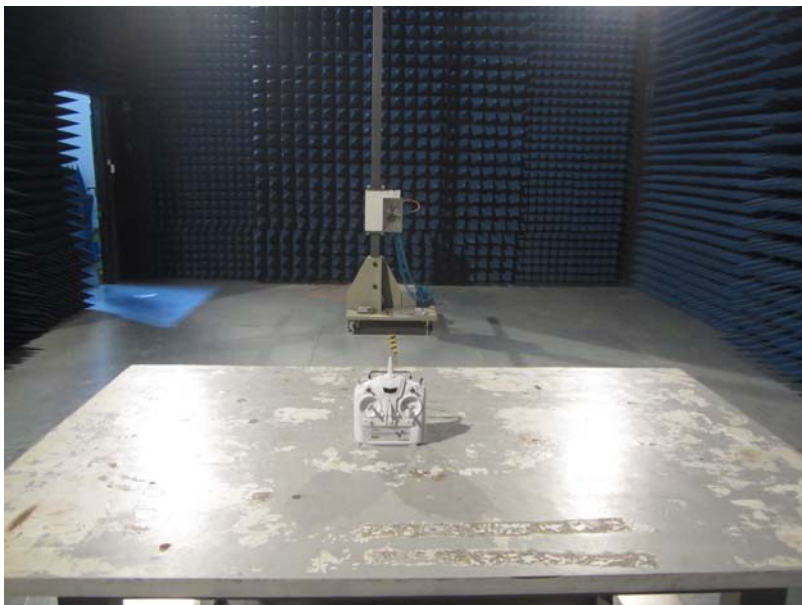
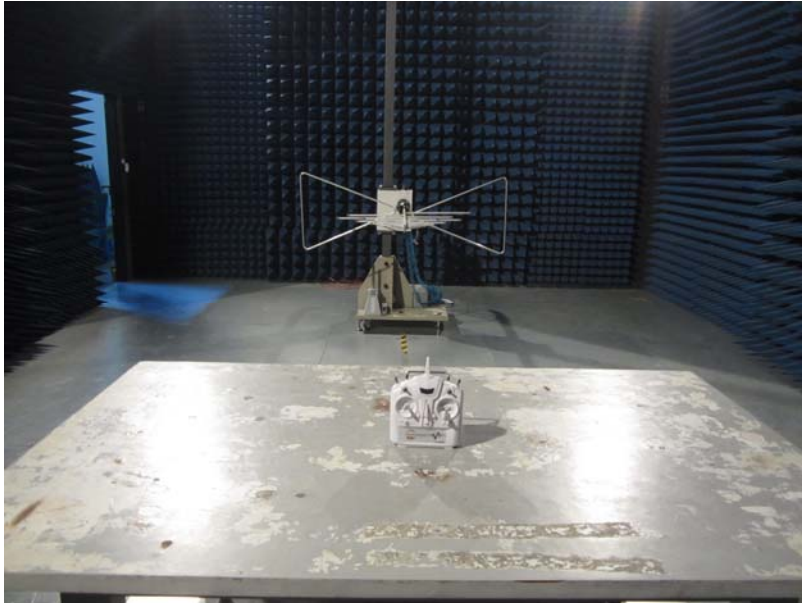
Middle channel



Highest channel

8 Test Setup Photo

Radiated Emission



9 EUT Constructional Details

H-6E



H-6Q

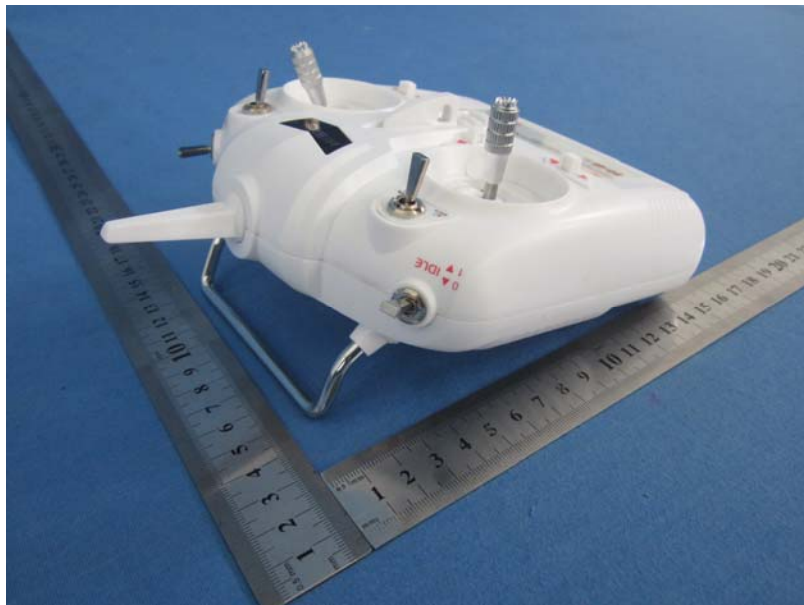


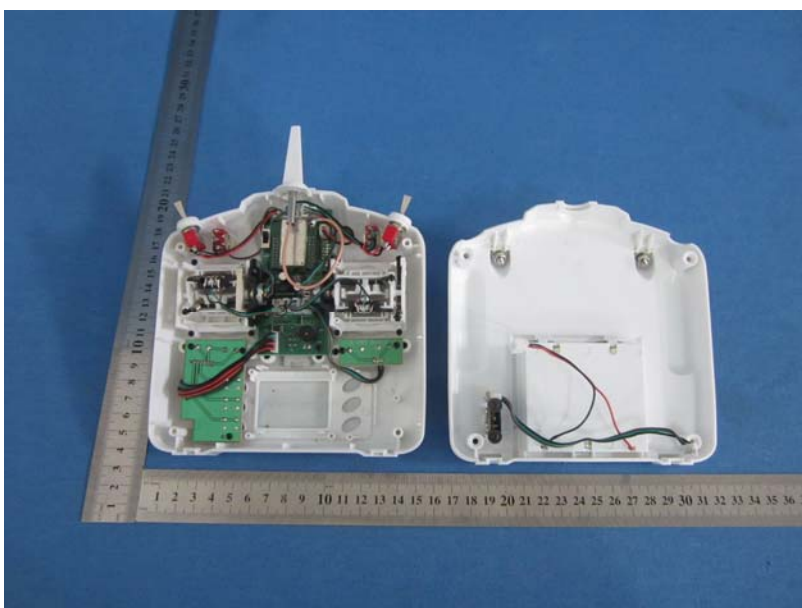
H-4

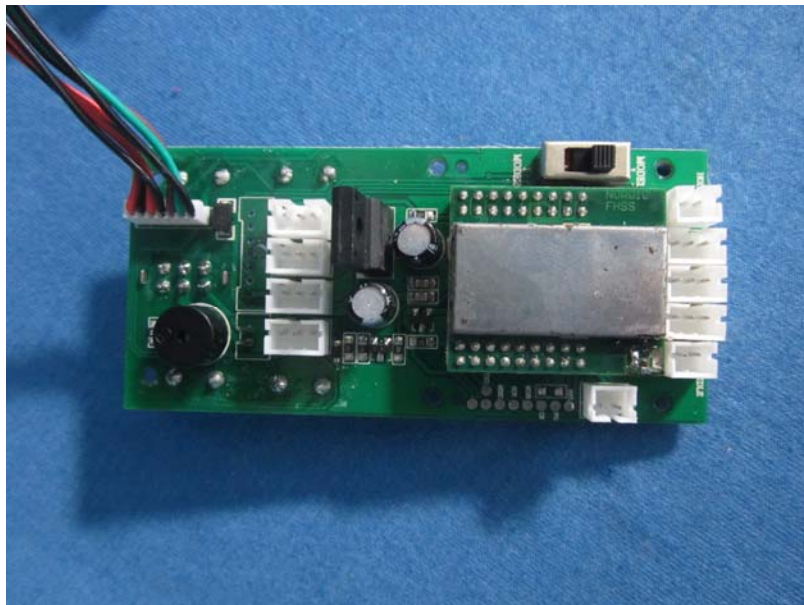
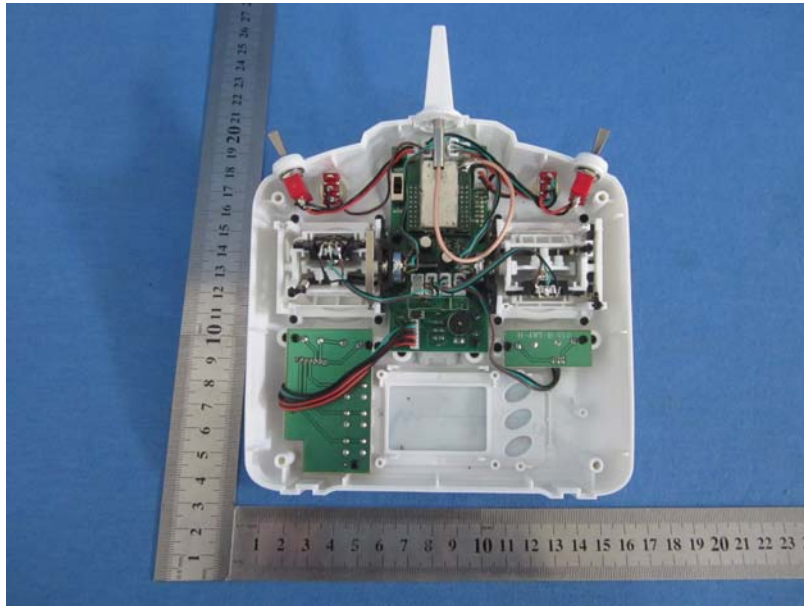


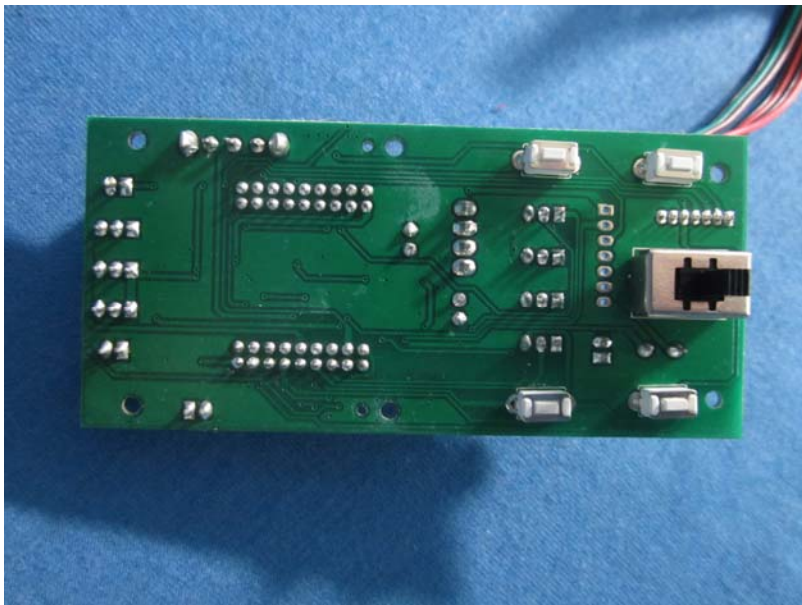
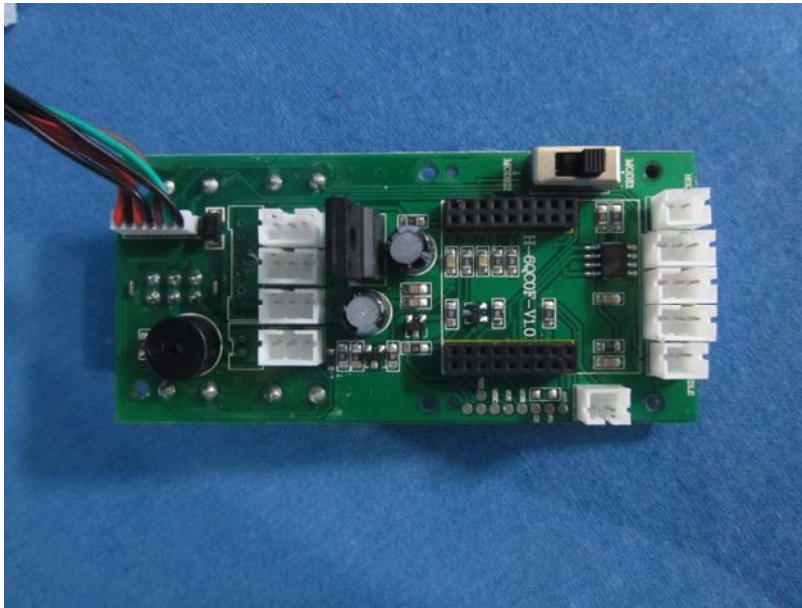
H-4Q

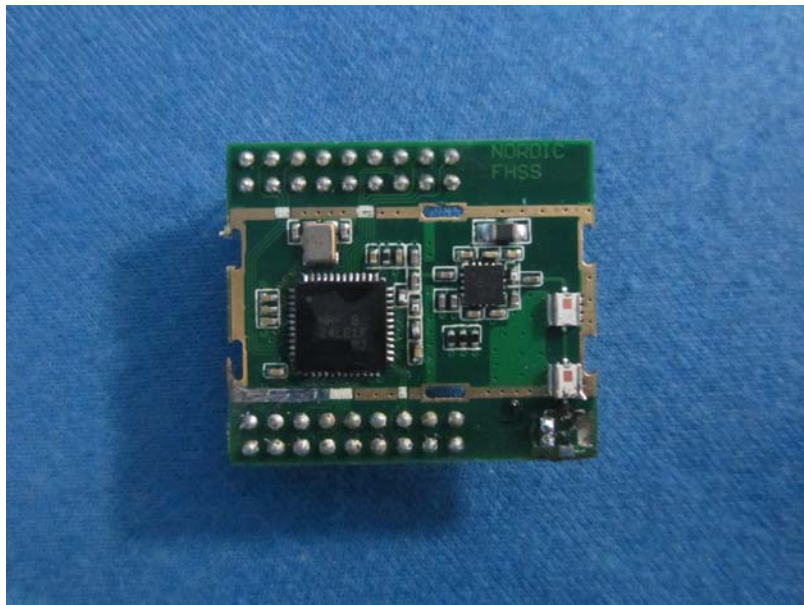


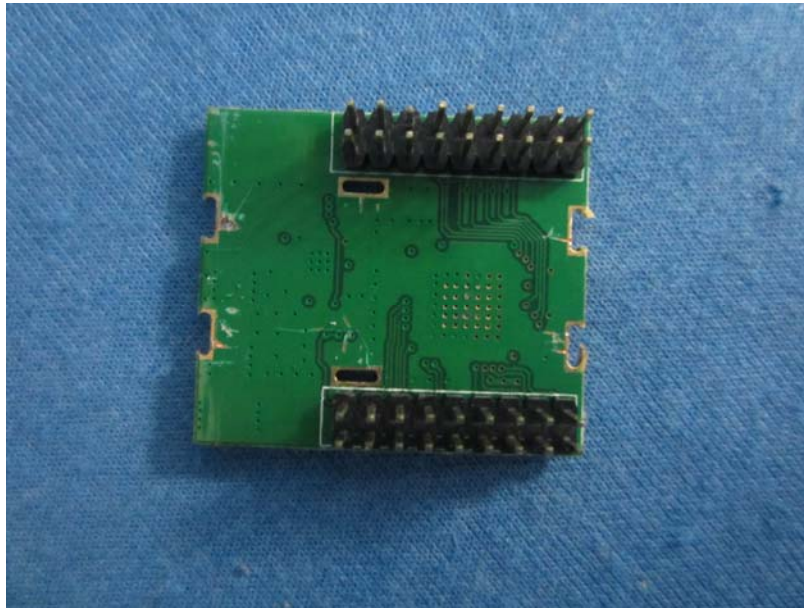


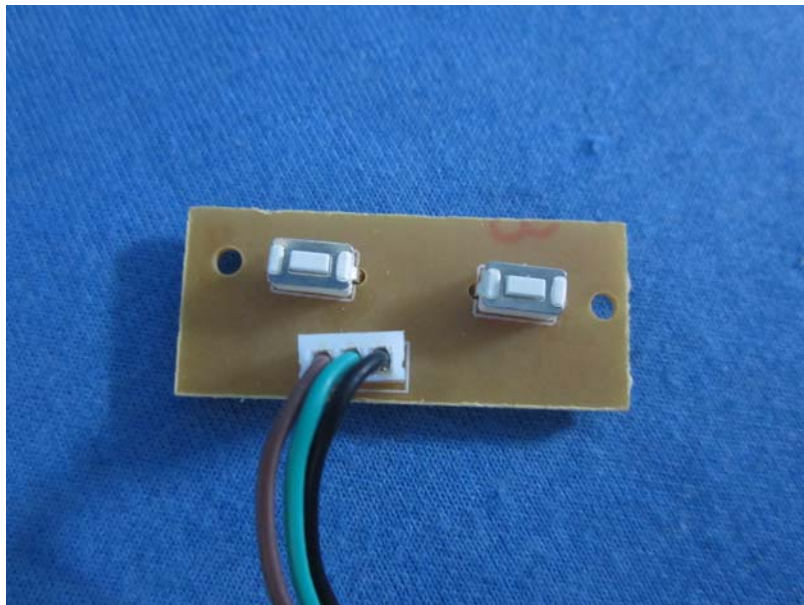
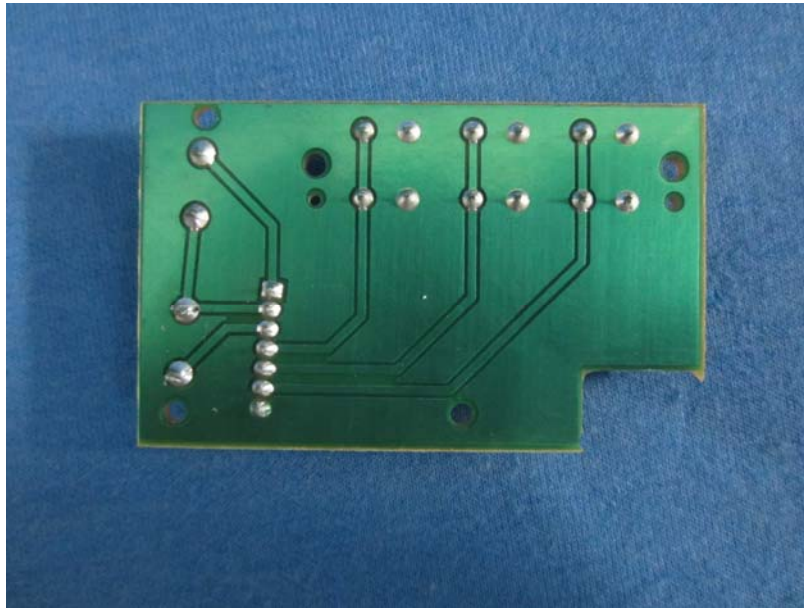


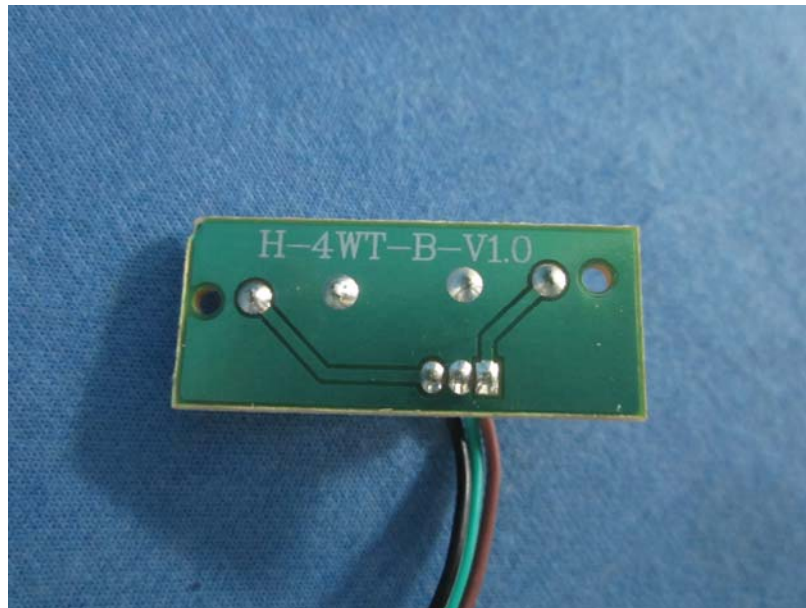












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