

TEST REPORT

FCC ID: 2AEXY502CRX

Product: Hubsan X4 Star

Model No.: H502C

Additional Model: H502

Trade Mark: Hubsan

Report No.: TCT160602E003

Issued Date: Jun. 15, 2016

Issued for:

13th Floor, Bldg 1C, Shenzhen Software Industry Base, Xuefu Road, Nanshan District, Shenzhen, China

Issued By:

Shenzhen Tongce Testing Lab.

1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

TEL: +86-755-27673339

FAX: +86-755-27673332

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen Tongce Testing Lab.

This document may be altered or revised by Shenzhen Tongce Testing Lab. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com





TABLE OF CONTENTS

1. Test Certification		3
2. Test Result Summary		4
3. EUT Description		
4. Genera Information	<u>(6)</u>	6
4.1. Test Environment and Mode		6
4.2. Description of Support Units		
5. Facilities and Accreditations	(<u>(</u> C)	7
5.1. Facilities		7
5.2. Location		
5.3. Measurement Uncertainty		7
6. Test Results and Measurement Data.		8
6.1. Antenna Requirement		8
6.2. Conducted Emission		9
6.3. Radiated Emission Measurement		
6.4. 20dB Occupied Bandwidth		18
Appendix A: Photographs of Test Setup		
Appendix B: Photographs of EUT		

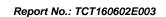


1. Test Certification

Product:	Hubsan X4 Star
Model No.:	H502C
Additional Model:	H502
Applicant:	SHENZHEN HUBSAN INTELLIGENT COMPANY LIMITED
Address:	13th Floor, Bldg 1C, Shenzhen Software Industry Base, Xuefu Road, Nanshan District, Shenzhen, China
Manufacturer:	DONGGUAN TENGSHENG INDUSTRIAL CO., LTD
Address:	A22# Luyi Street, Tianxin Village, Tangxia Town, Dongguan, China.
Date of Test:	Jun. 02 –Jun. 15, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Beryl shao	Date:	Jun. 15, 2016	
Reviewed By:	Beryl Zhao Zanzhm	Date:	Jun. 15, 2016	
Approved By:	Joe Zhou Tomsin	Date:	Jun. 15, 2016	





2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	Antenna Requirement §15.203	
AC Power Line Conducted Emission	815 207	
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS

Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

Product Name:	Hubsan X4 Star
Model :	H502C
Additional Model:	H502
Trade Mark:	Hubsan
Operation Frequency:	2410-2465MHz
Number of Channel:	12
Modulation Technology:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi
Power Supply:	Rechargeable Li-ion Battery DC7.4V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency Each of Channel

٠.	<u>. 0940110</u>	<u> </u>	iaiiiioi			
	Channel	Frequency	Channel	Frequency	Channel	Frequency
	1	2410 MHz	5	2430MHz	9	2450MHz
	2	2415 MHz	6	2435MHz	10	2455MHz
	3	2420 MHz	7	2440MHz	11	2460MHz
	4	2425 MHz	8	2445MHz	12	2465MHz

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	2410MHz
The middle channel	2435MHz
The Highest channel	2465MHz





4. Genera Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. 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, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name	
1	1 6) 1	(6) 1		

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2.Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

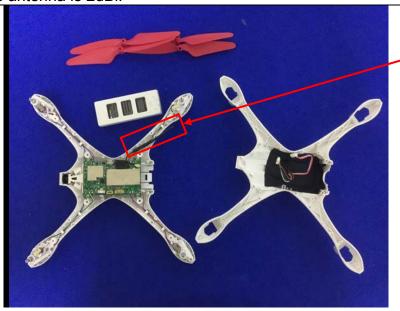
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The EUT antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 2dBi.



Antenna

Page 8 of 34



6.2.Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
Limits:	Frequency range (MHz) Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50				
Test Setup:	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 				
Test Result:	N/A; Because the EUT is powered by battery, but the battery is out of the EUT when it is charging, so the item is not application.				





6.3. Radiated Emission Measurement

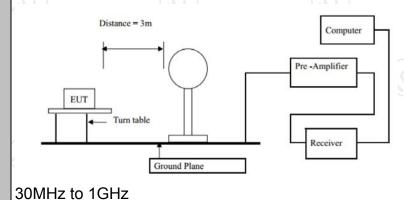
6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209/ Part 2 J Section 2.1053				
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2013				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m	K			
Antenna Polarization:	Horizontal 8	& Vertical			
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120kHz 1MHz 1MHz	300kHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value
Limit(Field strength of the fundamental signal):	Freque 2400MHz-24	ency	Limit (dBu\ 94.	V/m @3m) 00	Remark Average Value Peak Value
Limit(Spurious Emissions):	Frequency 0.009-0.490 0.490-1.705 1.705-30 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz		Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0		Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value
	960MHz-1GHz Above 1GHz		54.0 54.0 74.0		Quasi-peak Value Average Value 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,				cified frequency attenuated by at mental or to the
Test Procedure:	 whichever is the lesser attenuation. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 				

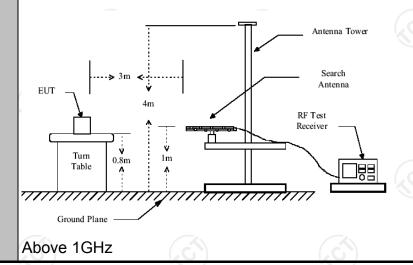


- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified 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.

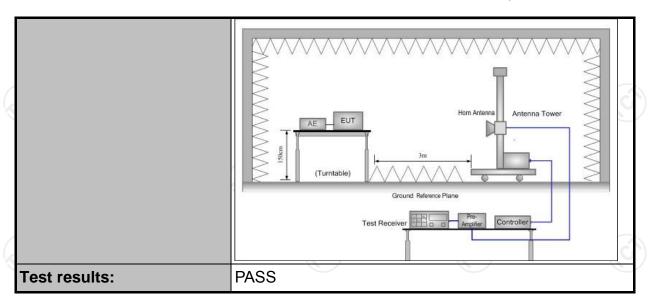
For radiated emissions below 30MHz



Test setup:







6.3.2. Test Instruments

			9	
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sep. 13, 2016
Coax cable	TCT	RE-low-01	N/A	Sep. 11, 2016
Coax cable	тст	RE-high-02	N/A	Sep. 11, 2016
Coax cable	тст	RE-low-03	N/A	Sep. 11, 2016
Coax cable	TCT	RE-high-04	N/A	Sep. 11, 2016
Antenna Mast	CCS	CC-A-4M	N/A	CN/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2410	94.05(PK)	Н	114/94	-19.95
2410	93.45(AV)	Н	114/94	-0.55
2435	93.59(PK)	Н	114/94	-20.41
2435	92.84(AV)	Н	114/94	-1.16
2465	92.08(PK)	(C)H	114/94	-21.92
2465	91.55(AV)	Н	114/94	-2.45
2410	89.35(PK)	V	114/94	-24.65
2410	88.64(AV)	V	114/94	-5.36
2435	88.95(PK)	V	114/94	-25.05
2435	88.23(AV)	V	114/94	-5.77
2465	87.83(PK)	V	114/94	-26.17
2465	87.08(AV)	V	114/94	-6.92

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(c)-	(G) (G)	+(3)

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

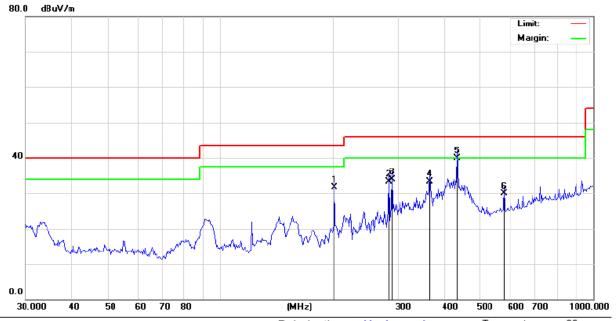
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Page 13 of 34



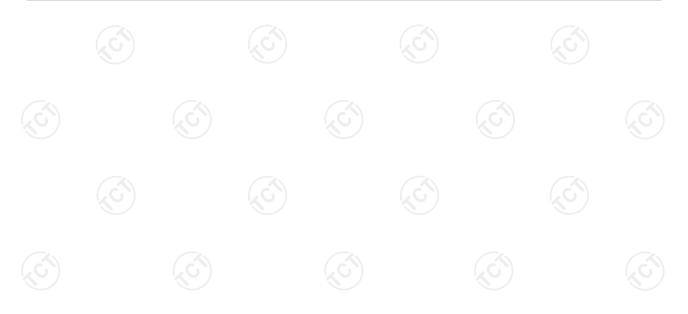
Frequency Range (30MHz-1GHz)

Horizontal:



Site Polarization: Horizontal Temperature: 25 Limit: FCC Part 15B Class B RE_3 m Power: DC 7.4V Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2	202.7192	43.21	-11.59	31.62	43.50	-11.88	QP		0	
2	2	284.0047	42.19	-8.81	33.38	46.00	-12.62	QP		0	
3	2	288.8331	42.61	-8.64	33.97	46.00	-12.03	QP		0	
4	3	365.7198	40.24	-6.90	33.34	46.00	-12.66	QP		0	
5	* 4	32.8763	45.13	-5.13	40.00	46.00	-6.00	QP		0	
6	5	76.5407	32.10	-2.17	29.93	46.00	-16.07	QP		0	





Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15B Class B RE_3 m Power: DC 7.4V Humidity: 54 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
-			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
-	1		33.0073	39.43	-13.35	26.08	40.00	-13.92	QP		0	
-	2		49.1910	33.23	-12.08	21.15	40.00	-18.85	QP		0	
-	3		81.5703	35.48	-15.81	19.67	40.00	-20.33	QP		0	
-	4		202.7192	33.44	-11.59	21.85	43.50	-21.65	QP		0	
-	5		284.0047	30.73	-8.81	21.92	46.00	-24.08	QP		0	
-	6	*	432.8763	39.03	-5.13	33.90	46.00	-12.10	QP		0	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.





Above 1GHz

	Low channel: 2410MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2390.00	Н	53.67		-4.20	49.47		74.00	54.00	-4.53			
2390.00	Н		48.16	-4.20	J	43.96	74.00	54.00	-8.97			
4820.00	Н	52.48		-3.94	48.54		74.00	54.00	-5.46			
7230.00	Н	47.65		0.52	48.17		74.00	54.00	-5.83			
	4-											
	(O X		120					(χG)				
2390.00	>	51.36		-4.20	47.16		74.00	54.00	-6.84			
2390.00	V		49.43	-4.20		45.23	74.00	54.00	-8.77			
4820.00	V	48.62		-3.94	44.68		74.00	54.00	-9.32			
7230.00	V	45.29		0.52	45.81		74.00	54.00	-8.19			
(<u>)</u>		72 /		\	<i>)</i>		K-2-/					

	Middle channel: 2435MHz										
Frequency	Ant Pol	Peak	AV	Correction	Emissio	n Level	Peak limit	AV limit	Margin		
(MHz)	H/V	reading	reading	Factor	Peak	AV		(dBµV/m)	(dB)		
(1711 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(αυμν/ιιι)	(αΒμν/ιιι)	(GD)		
4870.00	Τ	55.27		-3.98	51.29		74.00	54.00	-2.71		
7305.00	Ι	49.82		0.57	50.39		74.00	54.00	-3.61		
	-				X		7				
(C)		(4)		(20	(`ر		(2G-)		(₂ C		
<u> </u>					/ 						
4070.00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	=0.00	ı	0.00	40.44	1	74.00	F4.00			
4870.00	V	52.09		-3.98	48.11		74.00	54.00	-5.89		
7305.00	V	50.35		0.57	50.92	<u></u>	74.00	54.00	-3.08		
	<u> </u>		770)		(O 1		(ZO)			

					-,				
				High channe	el: 2465MF	l z			
Frequency	Ant Pol	Peak	AV	Correction	Emissio	on Level	Peak	AV limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	limit	(dBµV/m)	(dB)
(1411 12)	1 1/ 🗸	(dBµV)	(dBµV)	(dB/m)	$(dB\mu V/m)$	(dBµV/m)	(dBµV/m)	(αΒμ ν/ιιι)	(42)
2486.58	Н	52.06		-2.38	49.68		74.00	54.00	-4.32
2486.58	Н		42.34	-2.38		39.96	74.00	54.00	-14.04
4930.00	Н	53.62		-3.98	49.64	<u></u>	74.00	54.00	-4.36
7395.00	Н	49.57		0.57	50.14		74.00	54.00	-3.86
					1				
					X \				
2483.51	V	50.61		-2.38	48.23		74.00	54.00	-5.77
2483.51	V		43.25	-2.38	J	40.87	74.00	54.00	-13.13
4930.00	V	52.83		-3.98	48.85		74.00	54.00	-5.15
7395.00	V	49.24		0.57	49.81		74.00	54.00	-4.19
	4			·		(- +-		7	

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



Band Edge Requirement

Low chann	Low channel: 2410 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2400	Н	51.23)	-4.2	47.03		74.00		-26.97			
2400	Н		41.37	-4.2	<u> </u>	37.17	<u> </u>	54.00	-16.83			
2400	1/	40 EE		-4.2	45.05		74.00		00.05			
2400	V	49.55	(,	-4.2	45.35	(.(-1))	74.00	-7.Cı	-28.65			
2400	V		40.62	-4.2		36.42		54.00	-17.58			

High chanr	High channel: 2465MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2483.5	H	52.46		-4.2	48.26	-	74.00		-25.74			
2483.5	(H)		42.08	-4.2		37.88		54.00	-16.12			
			\	<u> </u>								
2483.5	V	50.72		-4.2	46.52		74.00		-27.48			
2483.5	V		41.53	-4.2		37.33		54.00	-16.67			
()			/		-		40		🖔			

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak/Average)(dB\mu V/m)-(Peak/Average) limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room										
Equipment	Equipment Manufacturer Model Serial Number Calibration Due									
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016						

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	93	(3)	PASS
Middle	93		PASS
Highest	93		PASS

Test plots as follows:







Lowest channel



Middle channel



Highest channel



*****END OF REPORT****



Appendix A: Photographs of Test Setup Product: Hubsan X4 Star

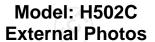
Product: Hubsan X4 Star Model: H502C Radiated Emission







Appendix B: Photographs of EUT Product: Hubsan X4 Star







TCT通测检测 TESTING CENTRE TECHNOLOGY





TCT通测检测 testing centre technology



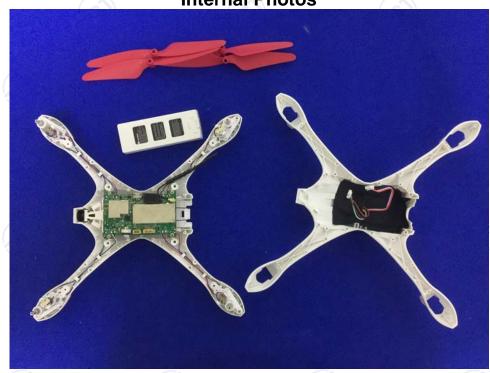


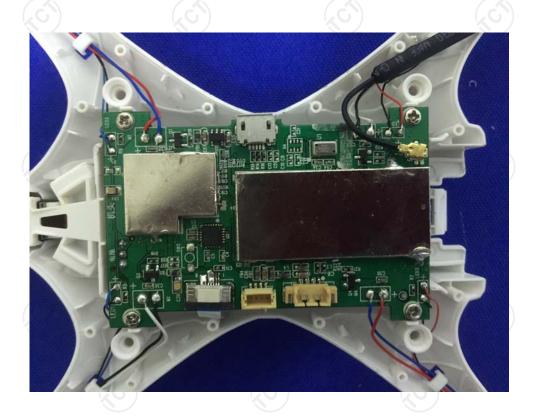




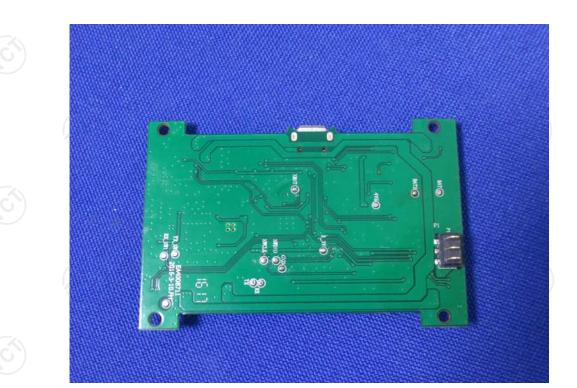


Product: Hubsan X4 Star Model: H502C Internal Photos



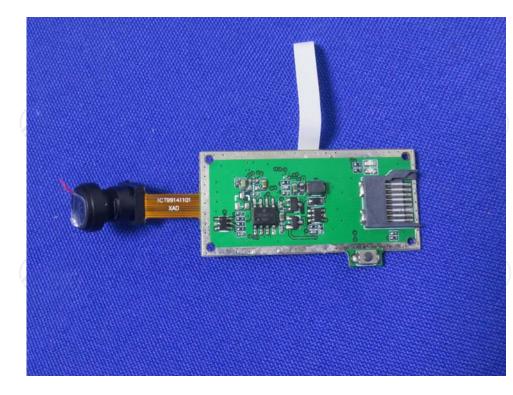


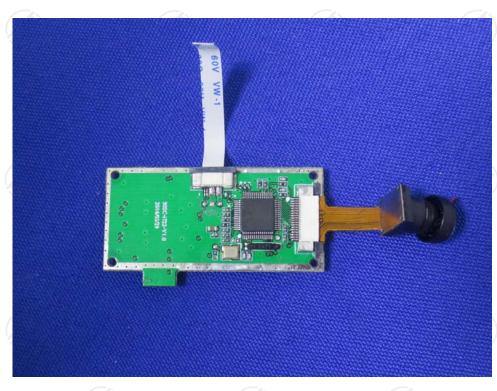




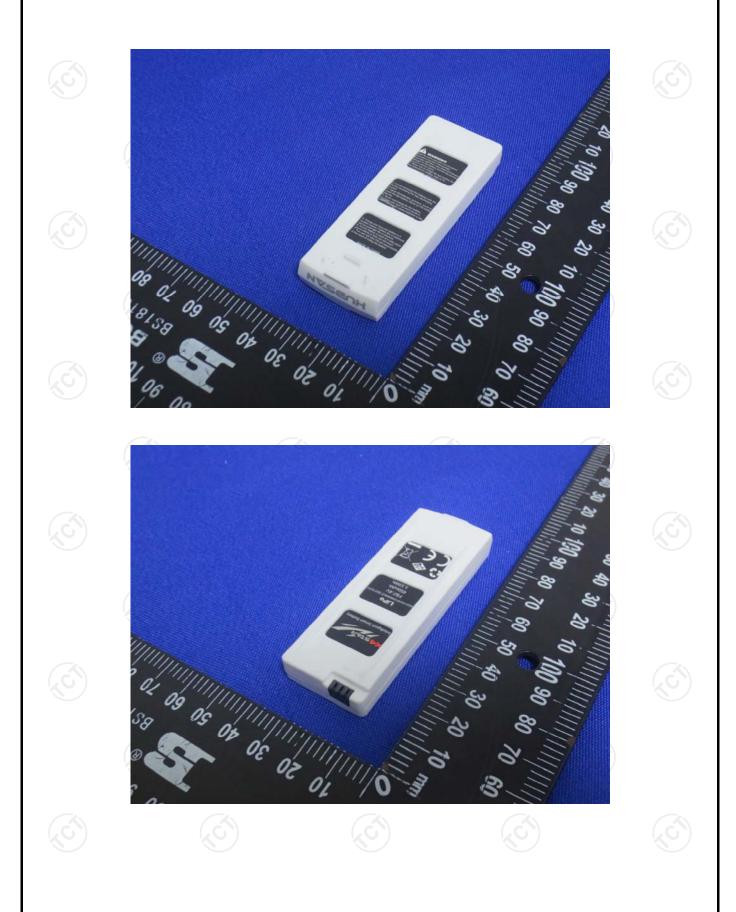












TCT通测检测
TESTING CENTRE TECHNOLOGY





TCT通测检测 TESTING CENTRE TECHNOLOGY

