

Global United Technology Services Co., Ltd.

Report No.: GTS202010000110F06

TEST REPORT

Applicant: Quanzhou Skydroid Technology Co., Ltd.

Address of Applicant: 2nd Floor, Building A, Yucheng Base, Fengze District,

Quanzhou City, Fujian, China

Quanzhou Skydroid Technology Co., Ltd. Manufacturer/Factory:

2nd Floor, Building A, Yucheng Base, Fengze District, Address of

Manufacturer/Factory: Quanzhou City, Fujian, China

Equipment Under Test (EUT)

Product Name: H16 remote control

Model No.: H16, H16PRO

Trade Mark: SKYDROID

FCC ID: 2ATGZQZYZH16

FCC CFR Title 47 Part 15 Subpart C Section 15.247 **Applicable standards:**

Date of sample receipt: October 21, 2020

Date of Test: October 22, 2020-November 03, 2020

Date of report issued: November 04, 2020

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	November 04, 2020	Original

Prepared By:	Tjør. Che	Date:	November 04, 2020
	Project Engineer	-	
Check By:	Reviewer	Date:	November 04, 2020



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

•					
Test Item	Frequency Range	Measurement Uncertainty	Notes		
Radiated Emission	30MHz-200MHz	3.8039dB	(1)		
Radiated Emission	200MHz-1GHz	3.9679dB	(1)		
Radiated Emission	1GHz-18GHz	4.29dB	(1)		
Radiated Emission	18GHz-40GHz	3.30dB	(1)		
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)		
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.		



5 General Information

5.1 General Description of EUT

Product Name:	H16 remote control			
Model No.:	H16, H16PRO			
Test Model No:	H16			
Remark: All above models are identical in the same PCB layout, interior structure and electrical circui only difference is model name for commercial purpose.				
Test sample(s) ID:	GTS202010000110-1			
Sample(s) Status:	Engineer sample			
S/N:	H16V1			
Hardware version:	V1.0			
Software version:	V1.0			
Operation Frequency:	2402MHz~2480MHz			
Channel Numbers:	40			
Channel Separation:	2MHz			
Modulation Type:	GFSK			
Antenna Type:	Integral Antenna			
Antenna Gain:	0dBi			
Power Supply:	ADAPTOR MODEL:KXS-012 INPUT: 110V-240V~50/60Hz 0.5A max OUTPUT: 3.6V-6V 3A or 6V-9V 32A or 9V-12V 31.5A Or DC 3.7V Battery			



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

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	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC —Registration No.: 381383

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 381383.

• IC —Registration No.: 9079A

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

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default



6 Test Instruments list

Radi	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	July. 02 2020	July. 01 2025		
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. 25 2020	June. 24 2021		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021		
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021		
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021		
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021		
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021		
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021		

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Condu	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021	
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021	
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021	
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021	
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021	
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021	

RF C	RF Conducted Test:								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021			
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021			
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021			

Gene	General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021			
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021			



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.

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 antennas are integral antenna, the best case gain of the antennas are 0dBi, reference to the appendix II for details



7.2 Conducted Emissions

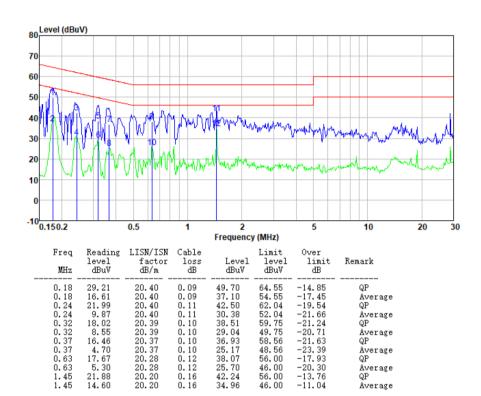
Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz	z, VBW=30KI	Hz, Sweep tir	ne=auto			
Limit:	Fragues	ov rongo (ML	1-/	Limit	(dBuV)		
		cy range (MF	QL	ıasi-peak	Aver		
).15-0.5	- 6	66 to 56*	56 to		
		0.5-5		56	40		
	* Doorooo	5-30 s with the log	arithm of the	frequency	50	0	
Test setup:	Decreases			irequericy.			
Test procedure:	Reference Plane LISN 40cm 80cm Filter Ac power Remark EUT: Equipment Under Test LISN Line impedence Stabilization Network Test table height=0.8m 1. 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. 2. 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).						
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relat positions of equipment and all of the interface cables must be according to ANSI C63.10:2013 on conducted measurement.						tive e changed	
Test Instruments:	Refer to sec	ction 6.0 for c	letails				
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar						
Test results:	Pass						

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

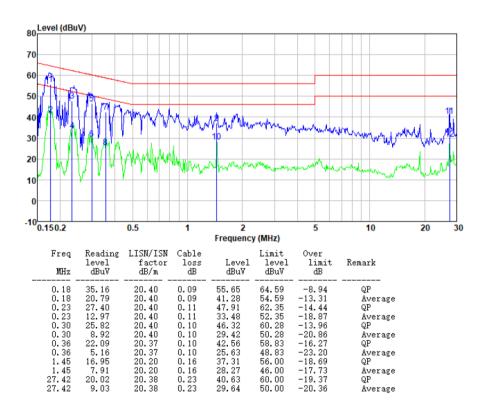


Measurement data Line:

Report No.: GTS202010000110F06



Neutral:





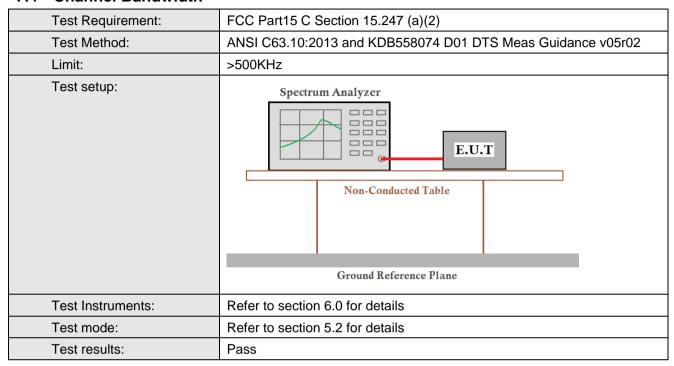
7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02			
Limit:	30dBm			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement Data: The detailed test data see clause 2 of Appendix BT BLE.



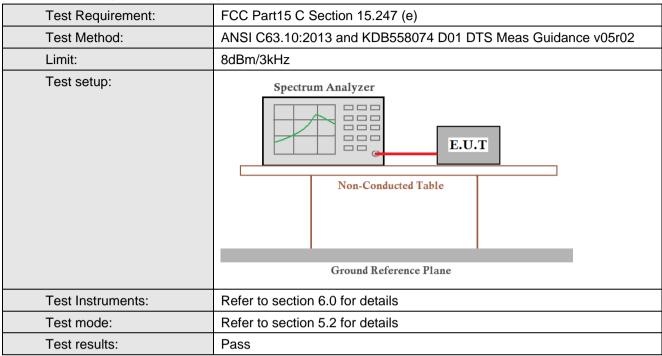
7.4 Channel Bandwidth



Measurement Data: The detailed test data see clause 1 of Appendix BT BLE.



7.5 Power Spectral Density



Measurement Data: The detailed test data see clause 3 of Appendix BT BLE.



7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement Data: The detailed test data see clause 4 of Appendix BT BLE.



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
·		Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Value	
	Above 1	CU-7	54.0	0	Average	
	Above	GHZ	74.0	0	Peak	
Test setup:	Turn Table	EUT+	Test Antenna			
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 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, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test					
Test Instruments:	Refer to section					
Test mode:	Refer to section	5.2 for details				
Test results:	Pass					



Measurement Data

Test channel: Lowest channel

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
2310.00	43.38	27.91	5.30	24.64	51.95	74.00	-22.05	Horizontal
2390.00	47.24	27.59	5.38	24.71	55.50	74.00	-18.50	Horizontal
2310.00	43.97	27.91	5.30	24.64	52.54	74.00	-21.46	Vertical
2390.00	48.33	27.59	5.38	24.71	56.59	74.00	-17.41	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
2310.00	33.81	27.91	5.30	24.64	42.38	54.00	-11.62	Horizontal
2390.00	35.08	27.59	5.38	24.71	43.34	54.00	-10.66	Horizontal
2310.00	33.79	27.91	5.30	24.64	42.36	54.00	-11.64	Vertical
2390.00	35.78	27.59	5.38	24.71	44.04	54.00	-9.96	Vertical



Test channel:	Highest channel
1 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	

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
2483.50	45.54	27.53	5.47	24.80	53.74	74.00	-20.26	Horizontal
2500.00	44.62	27.55	5.49	24.86	52.80	74.00	-21.20	Horizontal
2483.50	46.47	27.53	5.47	24.80	54.67	74.00	-19.33	Vertical
2500.00	45.66	27.55	5.49	24.86	53.84	74.00	-20.16	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
2483.50	34.65	27.53	5.47	24.80	42.85	54.00	-11.15	Horizontal
2500.00	34.58	27.55	5.49	24.86	42.76	54.00	-11.24	Horizontal
2483.50	35.20	27.53	5.47	24.80	43.40	54.00	-10.60	Vertical
2500.00	34.54	27.55	5.49	24.86	42.72	54.00	-11.28	Vertical

Remarks:

- 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. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data: The detailed test data see clause 4 of Appendix BT BLE.

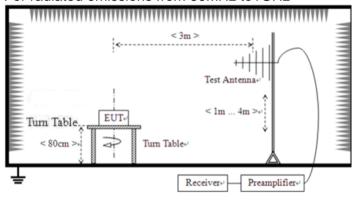


7.7.2 Radiated Emission Method

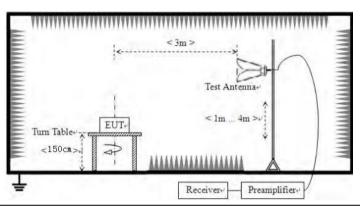
Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	9kHz to 25GHz									
Test site:	Measurement Distance: 3m									
Receiver setup:	Frequency	D	etector	RBW		VBW	Value			
	9KHz-150KHz	Qu	asi-peak	200Hz		600Hz	z Quasi-peak			
	150KHz-30MHz	Qu	asi-peak	9KHz		30KH:	z Quasi-peak			
	30MHz-1GHz	ď	asi-peak	120K	Hz	300KH	lz Quasi-peak			
	Above 1GHz		Peak	1MF	Ηz	3MHz	z Peak			
	Above 1GHz		Peak	1MF	Ηz	10Hz	Average			
Limit:	Frequency		Limit (u\	//m)	٧	alue	Measurement Distance			
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP	300m			
	0.490MHz-1.705M	Hz	24000/F(KHz)		QP		30m			
	1.705MHz-30MHz		30		QP		30m			
	30MHz-88MHz		100		QP					
	88MHz-216MHz	<u>-</u>	150		QP					
	216MHz-960MH	Z	200			QP	3m			
	960MHz-1GHz	500		QP		Sili				
	Above 1GHz		500		Αv	erage				
	ABOVE TOTIZ		5000)	Peak					
Test setup:	For radiated emiss	UT	< 3m >	*******	······· 	z				



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) 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.
- 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 5.2 for details								
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 101					1012mbar			
Test results:	Pass								

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

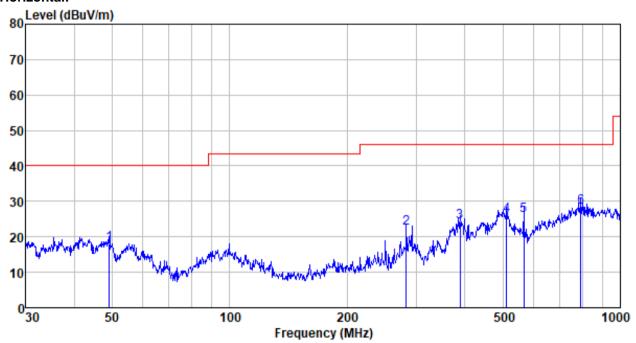
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



■ Below 1GHz

Horizontal:

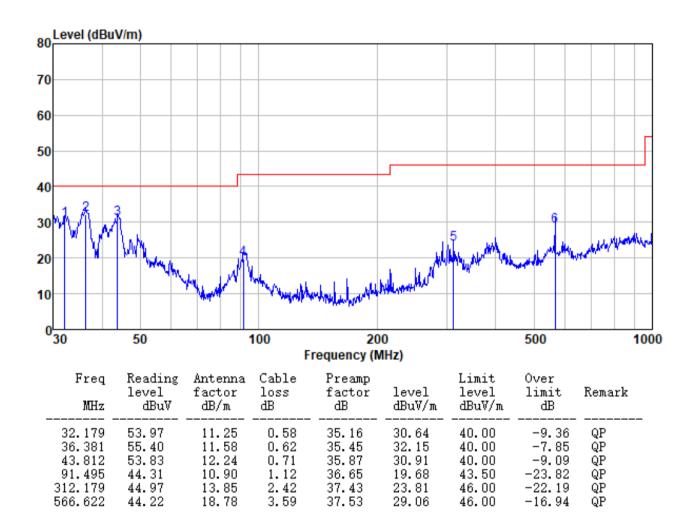


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
49.187	41.13	12.29	0.76	36.14	18.04	40.00	-21.96	QP
282.985	44.34	13.13	2.28	37.41	22.34	46.00	-23.66	QP
389.355	43.77	15.16	2.80	37.51	24.22	46.00	-21.78	QP
511.835	42.62	17.57	3.36	37.51	26.04	46.00	-19.96	QP
566.622	41.07	18.78	3.59	37.53	25.91	46.00	-20.09	QP
793.396	40.14	21.28	4.43	37.62	28.23	46.00	-17.77	QP



Vertical:

Report No.: GTS202010000110F06





■ Above 1GHz

Report No.: GTS202010000110F06

Test channe	l:		Lowest channel					
Peak value:				<u> </u>				
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
4804.00	34.99	31.78	8.60	32.09	43.28	74.00	-30.72	Vertical
7206.00	30.30	36.15	11.65	32.00	46.10	74.00	-27.90	Vertical
9608.00	30.10	37.95	14.14	31.62	50.57	74.00	-23.43	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	38.80	31.78	8.60	32.09	47.09	74.00	-26.91	Horizontal
7206.00	31.85	36.15	11.65	32.00	47.65	74.00	-26.35	Horizontal
9608.00	29.31	37.95	14.14	31.62	49.78	74.00	-24.22	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal
Average val								
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
4804.00	24.24	31.78	8.60	32.09	32.53	54.00	-21.47	Vertical
7206.00	19.24	36.15	11.65	32.00	35.04	54.00	-18.96	Vertical
9608.00	18.46	37.95	14.14	31.62	38.93	54.00	-15.07	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	28.21	31.78	8.60	32.09	36.50	54.00	-17.50	Horizontal
7206.00	21.26	36.15	11.65	32.00	37.06	54.00	-16.94	Horizontal
9608.00	18.00	37.95	14.14	31.62	38.47	54.00	-15.53	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remarks:

- 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	:			Mid	dle			
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
4880.00	35.40	31.85	8.67	32.12	43.80	74.00	-30.20	Vertical
7320.00	30.57	36.37	11.72	31.89	46.77	74.00	-27.23	Vertical
9760.00	30.34	38.35	14.25	31.62	51.32	74.00	-22.68	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	39.30	31.85	8.67	32.12	47.70	74.00	-26.30	Horizontal
7320.00	32.15	36.37	11.72	31.89	48.35	74.00	-25.65	Horizontal
9760.00	29.59	38.35	14.25	31.62	50.57	74.00	-23.43	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal
Average val								
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
4880.00	24.58	31.85	8.67	32.12	32.98	54.00	-21.02	Vertical
7320.00	19.47	36.37	11.72	31.89	35.67	54.00	-18.33	Vertical
9760.00	18.67	38.35	14.25	31.62	39.65	54.00	-14.35	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	28.60	31.85	8.67	32.12	37.00	54.00	-17.00	Horizontal
7320.00	21.52	36.37	11.72	31.89	37.72	54.00	-16.28	Horizontal
9760.00	18.24	38.35	14.25	31.62	39.22	54.00	-14.78	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					54.00		Horizontal

Remarks:

- 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 channe	l:			H	lighest			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i evei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.64	31.93	8.73	32.16	44.14	74.00	-29.86	Vertical
7440.00	30.72	36.59	11.79	31.78	47.32	74.00	-26.68	Vertical
9920.00	30.48	38.81	14.38	31.88	51.79	74.00	-22.21	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.58	31.93	8.73	32.16	48.08	74.00	-25.92	Horizontal
7440.00	32.33	36.59	11.79	31.78	48.93	74.00	-25.07	Horizontal
9920.00	29.75	38.81	14.38	31.88	51.06	74.00	-22.94	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:			•	•		•	•
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 6//61	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	24.80	31.93	8.73	32.16	33.30	54.00	-20.70	Vertical
7440.00	19.62	36.59	11.79	31.78	36.22	54.00	-17.78	Vertical
9920.00	18.80	38.81	14.38	31.88	40.11	54.00	-13.89	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	28.85	31.93	8.73	32.16	37.35	54.00	-16.65	Horizontal
7440.00	21.69	36.59	11.79	31.78	38.29	54.00	-15.71	Horizontal
9920.00	18.39	38.81	14.38	31.88	39.70	54.00	-14.30	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remarks:

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



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

-----End-----