

Global United Technology Services Co., Ltd.

Report No.: GTSL2025020052F06

TEST REPORT

Applicant: Quanzhou SKYDROID Technology Co., Ltd.

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

Quanzhou City, Fujian Province, China

Manufacturer: Quanzhou SKYDROID Technology Co., Ltd.

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

Manufacturer: Quanzhou City, Fujian Province, China

Factory: Quanzhou SKYDROID Technology Co., Ltd.

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

Quanzhou City, Fujian Province, China

Equipment Under Test (EUT)

Product Name: Remote control

Model No.: G12, G12Pro, G12/G12Pro, G12-RX

Trade Mark: SKYDROID

FCC ID: 2ATGZQZYZG12

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: 01/15/2025

Date of Test: 01/15/2025~02/18/2025

Date of report issued: 02/20/2025

Test Result : PASS *

Authorized Signature:

Robinson Luo Laboratory Manager

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



2 Version

Version No.	Date	Description
00	02/20/2025	Original

Prepared By:	Project Engineer	Date:	02/20/2025
Check By:	Reviewer	Date:	02/20/2025

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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Maximum Conducted Output Power	FCC part 15.407(a)(3)	Pass
Channel Bandwidth and 99% Occupied Bandwidth	FCC part 15.407(e)	Pass
Power Spectral Density	FCC part 15.407(a)(3)	Pass
Band Edge	FCC part 15.407(b)(4)	Pass
Spurious Emission	FCC part 15.205/15.209/15.407(b)(4)	Pass
Frequency Stability	FCC part 15.407(g)	Pass

Remarks:

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

4.1 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	±7.25×10 ⁻⁸		
2	Duty cycle	±0.37%		
3	Occupied Bandwidth	±3%		
4	RF conducted power	±0.75dB		
5	RF power density	±3dB		
6	Conducted Spurious emissions	±2.58dB		
7	AC Power Line Conducted Emission	±3.44dB (0.15MHz ~ 30MHz)		
		±3.1dB (9kHz-30MHz)		
466		±3.8039dB (30MHz-200MHz)		
8	Radiated Spurious emission test	±3.9679dB (200MHz-1GHz)		
		±4.29dB (1GHz-18GHz)		
		±3.30dB (18GHz-40GHz)		
9	Temperature test	±1°C		
10	Humidity test	±3%		
11	Time	±3%		



5 General Information

5.1 General Description of EUT

Product Name:	Remote control	
Test Model No.:	G12	
Family model:	G12Pro, G12/G12Pro, G12-RX	
Test sample(s) ID:	GTSL2025020052-1	
SN:	2024G12A0001	
Sample(s) Status:	Engineer sample	
Operation Frequency:	5750~5820MHz	
Channel numbers:	5	
Channel bandwidth:	10/20MHz	
Modulation technology:	OFDM	
Antenna Type:	PIFA Antenna	
Antenna gain:	ANT1/ANT2: 2.73dBi	
	SISO/MIMO	
Power supply:	AC Adapter(100~240VAC)	

Remark:

- 1. Antenna gain information provided by the customer
- 2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.



Operation Frequency each of channel					
	For 10/20 MHz bandwidth				
1	5750 MHz	3	5800 MHz		
2	5780 MHz	4	5820 MHz		
3					

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:

10 MHz bandwidth		20 MHz bandwidth		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
Lowest:	5750 MHz	Lowest:	5750 MHz	
Middle:	5780 MHz	Middle:	5780 MHz	
Highest:	5820 MHz	Highest:	5820 MHz	

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate	Mode	Data rate	
802.11a	6Mbps	1	1	

5.3 Description of Support Units

None

5.4 Test Facility

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

• FCC —Registration No.: 381383

Designation Number: CN5029

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.

• ISED —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.5 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

5.6 Additional Instructions

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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radia	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	Jun. 22, 2024	Jun. 21, 2027	
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	Apr. 11, 2024	Apr. 10, 2025	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Mar. 19, 2023	Mar. 18, 2025	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 17, 2023	Apr. 16, 2025	
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Apr. 11, 2024	Apr. 10, 2025	
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.12, 2024	Nov.11, 2025	
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2024	Apr. 10, 2025	
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2024	Apr. 10, 2025	
10	Horn Antenna (15GH-40GHz)	SCHWARZBECK	01296	GTS691	Mar. 07, 2024	Mar. 06, 2025	
11	FSV-Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 12, 2024	Mar. 11, 2025	
12	Amplifier	1	LNA-1000-30S	GTS650	Apr. 11, 2024	Apr. 10, 2025	
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 07, 2024	Nov. 06, 2025	
14	Wideband Amplifier		WDA-01004000-15P35	GTS602	Apr. 11, 2024	Apr. 10, 2025	
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 18, 2024	Apr. 17, 2025	
16	RE cable 1	GTS	N/A	GTS675	Jul. 02, 2024	Jul. 01, 2025	
17	RE cable 2	GTS	N/A	GTS676	Jul. 02, 2024	Jul. 01, 2025	
18	RE cable 3	GTS	N/A	GTS677	Jul. 02, 2024	Jul. 01, 2025	
19	RE cable 4	GTS	N/A	GTS678	Jul. 02, 2024	Jul. 01, 2025	
20	RE cable 5	GTS	N/A	GTS679	Jul. 02, 2024	Jul. 01, 2025	
21	RE cable 6	GTS	N/A	GTS680	Jul. 02, 2024	Jul. 01, 2025	
22	RE cable 7	GTS	N/A	GTS681	Jul. 05, 2024	Jul. 04, 2025	
23	RE cable 8	GTS	N/A	GTS682	Jul. 05, 2024	Jul. 04, 2025	
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A	

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Cond	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	Jul. 12, 2022	Jul. 11, 2027		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 11, 2024	Apr. 10, 2025		
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2024	Apr. 10, 2025		
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 18, 2024	Apr. 17, 2025		
6	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	Apr. 11, 2024	Apr. 10, 2025		
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2024	Apr. 10, 2025		
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2024	Apr. 10, 2025		
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2024	Apr. 10, 2025		
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A		

RF C	onducted 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	Apr. 13, 2024	Apr. 12, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 13, 2024	Apr. 12, 2025
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 13, 2024	Apr. 12, 2025
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 13, 2024	Apr. 12, 2025
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 13, 2024	Apr. 12, 2025
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 13, 2024	Apr. 12, 2025
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 13, 2024	Apr. 12, 2025
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 13, 2024	Apr. 12, 2025
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 18, 2024	Apr. 17, 2025

Ger	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	KUMAO	SF132	GTS647	Apr. 18, 2024	Apr. 17, 2025		



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

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

E.U.T Antenna:

The antenna is External antenna, 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, VBW=30KHz, S	weep time=auto			
Limit:	Frequency range (MHz)	Limit (dl	BuV)		
		Quasi-peak	Average		
	0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46				
	0.5-5	46			
	* Decreases with the logarithr	60	50		
Test setup:	Reference Plane				
	AUX Equipment E.U.T Filter AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m				
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 Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test environment:	Temp.: 25 °C Hun	nid.: 52% P	ress.: 1012mbar		
Test voltage:	AC 120V, 60Hz				
Test results:	Pass				
Tool Toodilo.	. 450				

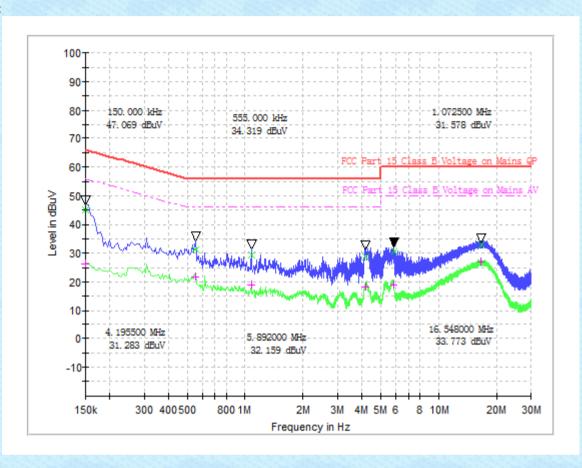
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Measurement data

Pre-scan all test modes, found worst case at 5.8G-10M 5820MHz, and so only show the test result of 5.8G-10M 5820MHz.

Line:

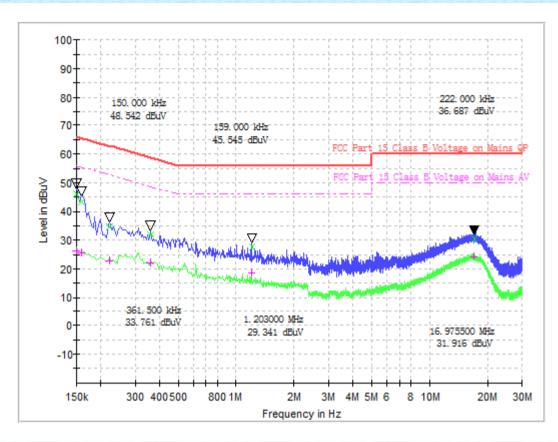


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - AV (dB)	Limit - AV (dBµV)
0.150000	45.07	26.21	10.1	20.93	66.0	29.79	56.0
0.555000	31.31	21.67	10.1	24.69	56.0	24.33	46.0
1.072500	29.39	18.72	10.2	26.61	56.0	27.28	46.0
4.195500	28.75	18.16	10.5	27.25	56.0	27.84	46.0
5.892000	30.46	18.97	10.5	29.54	60.0	31.03	50.0
16.548000	32.99	26.78	10.5	27.01	60.0	23.22	50.0



Neutral:

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Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - AV (dB)	Limit - AV (dBµV)
0.150000	46.13	26.18	10.1	19.87	66.0	29.82	56.0
0.159000	43.22	25.48	10.1	22.29	65.5	30.04	55.5
0.222000	34.67	22.54	10.1	28.07	62.7	30.20	52.7
0.361500	31.87	21.94	10.1	26.82	58.7	26.75	48.7
1.203000	27.66	18.61	10.2	28.34	56.0	27.39	46.0
16.975500	30.25	24.10	10.5	29.75	60.0	25.90	50.0

Notes.

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407(a)(3)				
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01				
Limit:	30dBm				
Duty Cycle set up:	RBW=VBW=8MHz				
Test setup:	Power Meter 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				



7.4 Channel Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407(e)			
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01			
Limit:	>500KHz			
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			



7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407(a)(3)			
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01			
Limit:	30dBm/500kHz			
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			



7.6 Band edge

7.6.1 Radiated Emission Method

7.0.1 Radiated Ellission Met						
Test Requirement:	FCC Part15 C S		and 15.205			
Test Method:	ANSI C63.10: 2					
Test Frequency Range:	9kHz to 40GHz		e is reporte	d		
Test site:	Measurement D	istance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
		RMS	1MHz	3MHz	RMS	
Limit:					Hz at 75 MHz or	
	more above or below the band edge increasing linearly to 10 dBm/MHz					
					5 MHz above or	
					5.6 dBm/MHz at 5	
					above or below the	
		easing linearly to	a level of A	27 abm/iviH	z at the band	
Test setup	edge.					
Test setup:	111111111111111	************	*******	**********		
		< 3m >		1		
	E		D			
		Î	Test Antenna-	Τ \	3 (0.00)	
	E	į.	Test Antenna-			
	E		< 1m 4m >		3 (6)	
	Tum Table	EUT+		\$		
	<150cm>.	\$				
	1	AAAAAAA	AAAAAAAA			
	<u>+</u>	R	eceiver+ Pres	amplifier.		
				200 CO (100 CO)		
Test Procedure:					1.5 meters above	
					ated 360 degrees to	
		e position of the			and receiving	
	2. The EUT wa					
	tower.	cii was mountet	a on the top	oi a variab	le-height antenna	
		height is varied	from one n	neter to four	r meters above the	
		termine the max				
					are set to make the	
	measuremen				and the state of t	
			n, the EUT	was arrang	ed to its worst case	
					meter to 4 meters	
					0 degrees to find	
	the maximun	n reading.				
	5. The test-rece				unction 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					
		age method as	specified ar	nd then repo	orted in a data	
	sheet.			and in V. V	7 avia pasitissis	
					, Z axis positioning.	
	And found th	e A axis position	iing which i	t is worse c	ase, only the test	



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	worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

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.
- 4. All antennas were tested and passed, only an1 report
- 5. According to KDB 789033 D02v02r01 section G) 1) d),for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.

E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.

E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m

Measurement data:

Detailed test data can be found in Section 7.7.

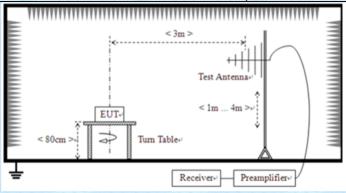


7.7 Spurious Emission

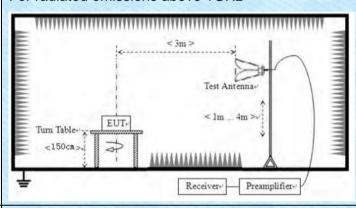
7.7.1 Radiated Emission Method

Test Requirement:	FCC Part15 C	Section 15 209 F	Part 15F Se	ection 15.40	7(b)(4)
Test Method:	FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4) ANSI C63.10:2013				
Test Frequency Range:	9kHz to 40GHz				
Test site:	Measurement D	Distance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW	Value
			200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Ab 4011-	Peak	1MHz	3MHz	Peak Value
	Above 1GHz	AV	1MHz	3MHz	Average Value
		y cycle ≥ 98%, av average detector			
Limit:	Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)				
	0.009-0.490	2400/F(kHz)	oics/illecer/	Wiedsdreine	300
	0.490-1.705	24000/F(kHz)			30
	1.705-30.0	30			30
	30-88 88-216	100** 150**			3
	216-960	200**			3
	Above 960	500			3
	The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.				
Test setup:	For radiated e	missions from 9	9kHz to 30)MHz	
	SOcm >	Tum Table	Receiv	and the same of th	na





For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 worst case mode is recorded in the report.



				Report No.:	: GTSL2025	020052F06		
Test Instruments:	Refer to se	Refer to section 6.0 for details						
Test mode:	Refer to se	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
Test voltage:	AC 120V, 60Hz							
Test results:	Pass							

Remarks:

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

Measurement Data:

9 kHz ~ 30 MHz

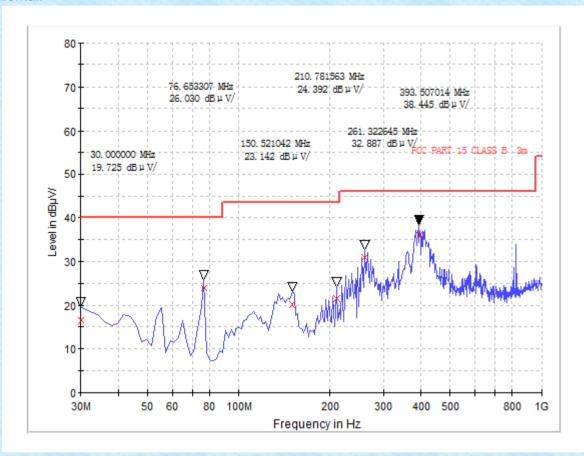
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



Below 1GHz

Pre-scan all test modes, found worst case at 5.8G-10M 5820MHz, and so only show the test result of 5.8G-10M 5820MHz.

Horizontal:

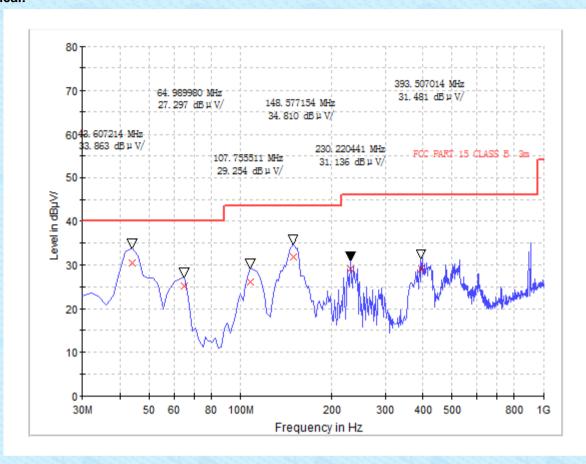


Frequency (MHz)	QuasiPeak (dB!ÌV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB¦ÌV/m)
30.000000	16.58	120.000	100.0	Н	19.4	23.42	40.0
76.640000	24.01	120.000	100.0	Н	7.4	15.99	40.0
150.52000	20.08	120.000	100.0	Н	12.1	23.42	43.5
210.80000	21.50	120.000	100.0	Н	12.1	22.00	43.5
261.32000	30.73	120.000	100.0	Н	13.9	15.27	46.0
393.52000	35.88	120.000	100.0	Н	16.8	10.12	46.0

GTS

Vertical:

Report No.: GTSL2025020052F06



Frequency (MHz)	QuasiPeak (dB¦ÌV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB¦ÌV/m)
43.600000	30.46	120.000	100.0	V	12.2	9.54	40.0
65.000000	25.31	120.000	100.0	V	5.9	14.69	40.0
107.76000	26.24	120.000	100.0	V	10.6	17.26	43.5
148.56000	31.82	120.000	100.0	V	12.1	11.68	43.5
230.24000	29.13	120.000	100.0	V	12.8	16.87	46.0
393.52000	29.11	120.000	100.0	V	16.8	16.89	46.0



Above 1GHz:

	Above 1GHz:								
	5.8G 10M_5750MHz								
Fre. (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	49.89	68.20	-18.31	1.50	260	49.09	0.80	Horizontal	Peak
5700.00	50.63	105.20	-54.57	1.50	260	49.39	1.24	Horizontal	Peak
5720.00	50.29	110.80	-60.51	1.50	260	49.01	1.28	Horizontal	Peak
5725.00	52.82	122.20	-69.38	1.50	260	51.52	1.30	Horizontal	Peak
11500.00	54.65	68.20	-13.55	1.50	260	43.10	11.55	Horizontal	Peak
11500.00	43.38	54.00	-10.62	1.50	260	31.83	11.55	Horizontal	Average
5650.00	51.27	68.20	-16.93	1.60	180	50.47	0.80	Vertical	Peak
5700.00	50.84	105.20	-54.36	1.60	180	49.60	1.24	Vertical	Peak
5720.00	51.54	110.80	-59.26	1.60	180	50.26	1.28	Vertical	Peak
5725.00	51.85	122.20	-70.35	1.60	180	50.55	1.30	Vertical	Peak
11500.00	52.76	68.20	-15.44	1.60	180	41.21	11.55	Vertical	Peak
11500.00	43.22	54.00	-10.78	1.60	180	31.67	11.55	Vertical	Average
				5.8G 10I	M_5820MI	Ηz			
Fre. (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	50.16	122.20	-72.04	1.50	260	48.34	1.82	Horizontal	Peak
5855.00	51.47	110.80	-59.33	1.50	260	49.62	1.85	Horizontal	Peak
5875.00	51.28	105.20	-53.92	1.50	260	49.30	1.98	Horizontal	Peak
5925.00	52.50	68.20	-15.70	1.50	260	50.38	2.12	Horizontal	Peak
11640.00	52.92	68.20	-15.28	1.50	260	41.28	11.64	Horizontal	Peak
11640.00	43.45	54.00	-10.55	1.50	260	31.81	11.64	Horizontal	Average
5850.00	53.48	122.20	-68.72	1.60	180	51.66	1.82	Vertical	Peak
5855.00	50.73	110.80	-60.07	1.60	180	48.88	1.85	Vertical	Peak
5875.00	52.44	105.20	-52.76	1.60	180	50.46	1.98	Vertical	Peak
5925.00	50.92	68.20	-17.28	1.60	180	48.80	2.12	Vertical	Peak
11640.00	53.26	68.20	-14.94	1.60	180	41.62	11.64	Vertical	Peak
11640.00	44.43	54.00	-9.57	1.60	180	32.79	11.64	Vertical	Average



	5.8G 20M_5750MHz								
Fre. (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	50.03	68.20	-18.17	1.50	260	49.23	0.80	Horizontal	Peak
5700.00	51.48	105.20	-53.72	1.50	260	50.24	1.24	Horizontal	Peak
5720.00	51.78	110.80	-59.02	1.50	260	50.50	1.28	Horizontal	Peak
5725.00	52.71	122.20	-69.49	1.50	260	51.41	1.30	Horizontal	Peak
11500.00	53.79	68.20	-14.41	1.50	260	42.24	11.55	Horizontal	Peak
11500.00	43.23	54.00	-10.77	1.50	260	31.68	11.55	Horizontal	Average
5650.00	50.65	68.20	-17.55	1.60	180	49.85	0.80	Vertical	Peak
5700.00	51.21	105.20	-53.99	1.60	180	49.97	1.24	Vertical	Peak
5720.00	50.25	110.80	-60.55	1.60	180	48.97	1.28	Vertical	Peak
5725.00	50.89	122.20	-71.31	1.60	180	49.59	1.30	Vertical	Peak
11500.00	53.29	68.20	-14.91	1.60	180	41.74	11.55	Vertical	Peak
11500.00	43.76	54.00	-10.24	1.60	180	32.21	11.55	Vertical	Average
				5.8G 20I	M_5820Mi	Ηz			
Fre. (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	49.62	122.20	-72.58	1.50	260	47.80	1.82	Horizontal	Peak
5855.00	51.75	110.80	-59.05	1.50	260	49.90	1.85	Horizontal	Peak
5875.00	51.53	105.20	-53.67	1.50	260	49.55	1.98	Horizontal	Peak
5925.00	53.04	68.20	-15.16	1.50	260	50.92	2.12	Horizontal	Peak
11640.00	53.76	68.20	-14.44	1.50	260	42.12	11.64	Horizontal	Peak
11640.00	42.71	54.00	-11.29	1.50	260	31.07	11.64	Horizontal	Average
5850.00	52.78	122.20	-69.42	1.60	180	50.96	1.82	Vertical	Peak
5855.00	50.70	110.80	-60.10	1.60	180	48.85	1.85	Vertical	Peak
5875.00	52.54	105.20	-52.66	1.60	180	50.56	1.98	Vertical	Peak
5925.00	52.44	68.20	-15.76	1.60	180	50.32	2.12	Vertical	Peak
11640.00	53.40	68.20	-14.80	1.60	180	41.76	11.64	Vertical	Peak
11040.00	33.40	00.20	-14.00	1.00	100	41.70	11.04	VOITIOUI	1 Car

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) Pre-Amplifier\ Factor(dB)$
- 3. Margin value = Emission Level Limit value
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.
- 6. For 1GHz to 18GHz, Only worst-case data is reported.
- 7. For above 18GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)	FCC Part15 C Section 15.407(g)					
Test Method:	ANSI C63.10:2013, FCC Part 2.105	ANSI C63.10:2013, FCC Part 2.1055					
Limit:	stability such that an emission is ma	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified					
Test Procedure:		The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.					
Test setup:	Spectrum analyzer Att. Note: Measurement setup for testing on A	Temperature Chamber EUT Variable Power Supply Antenna connector					
Test Instruments:	Refer to section 6 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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