

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 Manufacturer: 2nd Floor, Building A, Yucheng Base, Fengze District,
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.: G20,G20Pro, G20/G20Pro,GR01

Trade Mark: SKYDROID

FCC ID: 2ATGZQZYSG20

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

Date of sample receipt: 01/15/2025

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

Date of report issued: 02/19/2025

Test Result : PASS *

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

Authorized Signature:

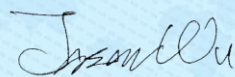
Robinson Luo
Laboratory Manager

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.

2 Version

Version No.	Date	Description
00	02/19/2025	Original

Prepared By:



Date:

02/19/2025

Project Engineer

Check By:



Date:

02/19/2025

Reviewer

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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

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

5 General Information

5.1 General Description of EUT

Product Name:	Remote control
Test Model No.:	G20
Family Model:	G20Pro, G20/G20Pro, GR01
Test sample(s) ID:	GTS2025020051-1
Sample(s) Status:	Engineer sample
S/N:	2024G20A0001
Operation Frequency:	2411~2466MHz
Channel Numbers:	6 channels
Channel Separation:	10 MHz
Modulation Type:	OFDM
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT1/ANT2: 3.7dBi 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.
3. The ANT1&ANT2 support both SISO, MIMO mode. And *ANT1+ANT2 uncorrelated* with each other, Directional gain = G_{ANT} dBi

Operation Frequency each of channel			
For 10/20 MHz bandwidth			
1	2411 MHz	4	2444 MHz
2	2422 MHz	5	2455 MHz
3	2433 MHz	6	2466 MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz&20MHz, 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:	2411 MHz	Lowest:	2411 MHz
Middle:	2433 MHz	Middle:	2433 MHz
Highest:	2466 MHz	Highest:	2466 MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode. <i>SRD ANT1+ANT2 uncorrelated</i> with each other, Directional gain = G_{ANT} dBi
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5.3 Description of Support Units

ZTE WIFI router, model P602

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 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).

5.7 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 software provided by manufacturer
Power level setup	Default

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	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	/	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

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 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	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

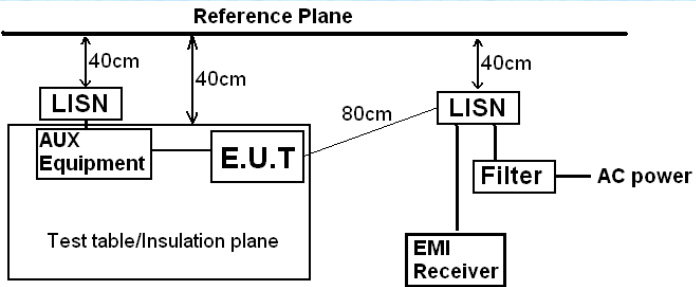
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Apr. 18, 2024	Apr. 17, 2025

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /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 antenna have unique antenna connector, reference to the appendix II for details	

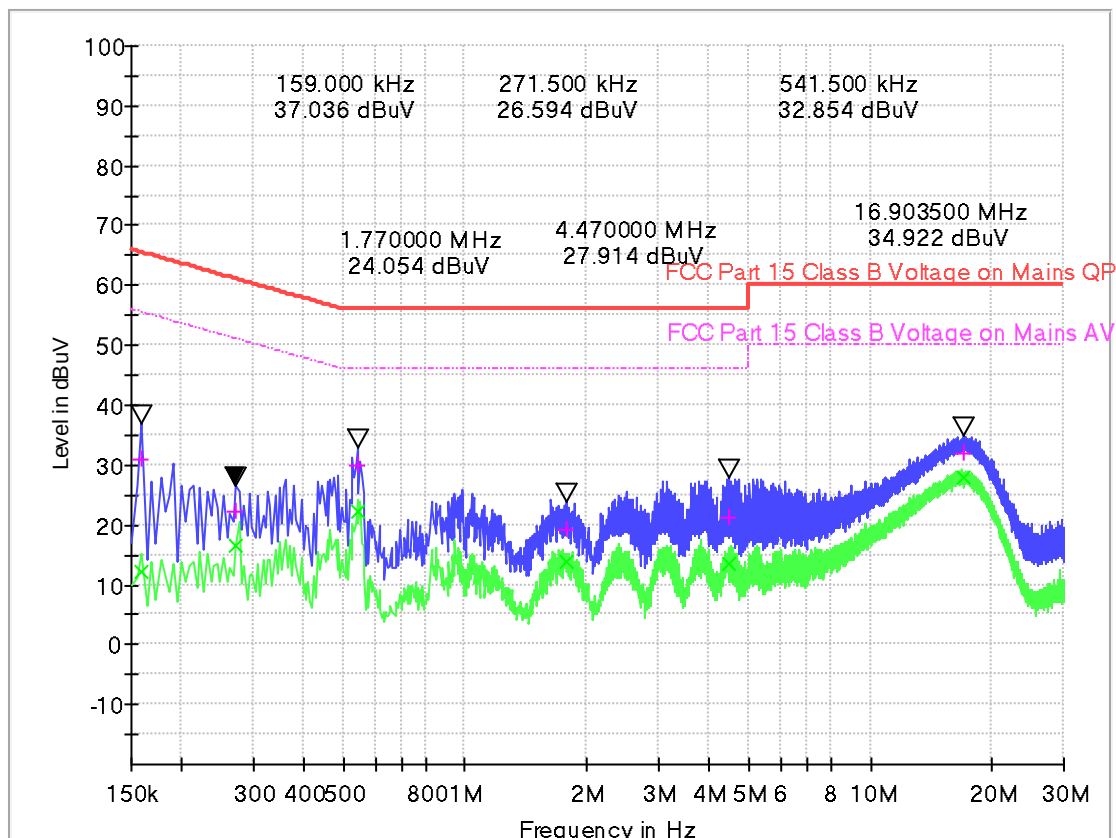
7.2 Conducted Emissions

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, Sweep time=auto					
Limit:	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	
* Decreases with the logarithm of the frequency.						
Test setup:	Reference Plane  Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test procedure:	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 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	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement data

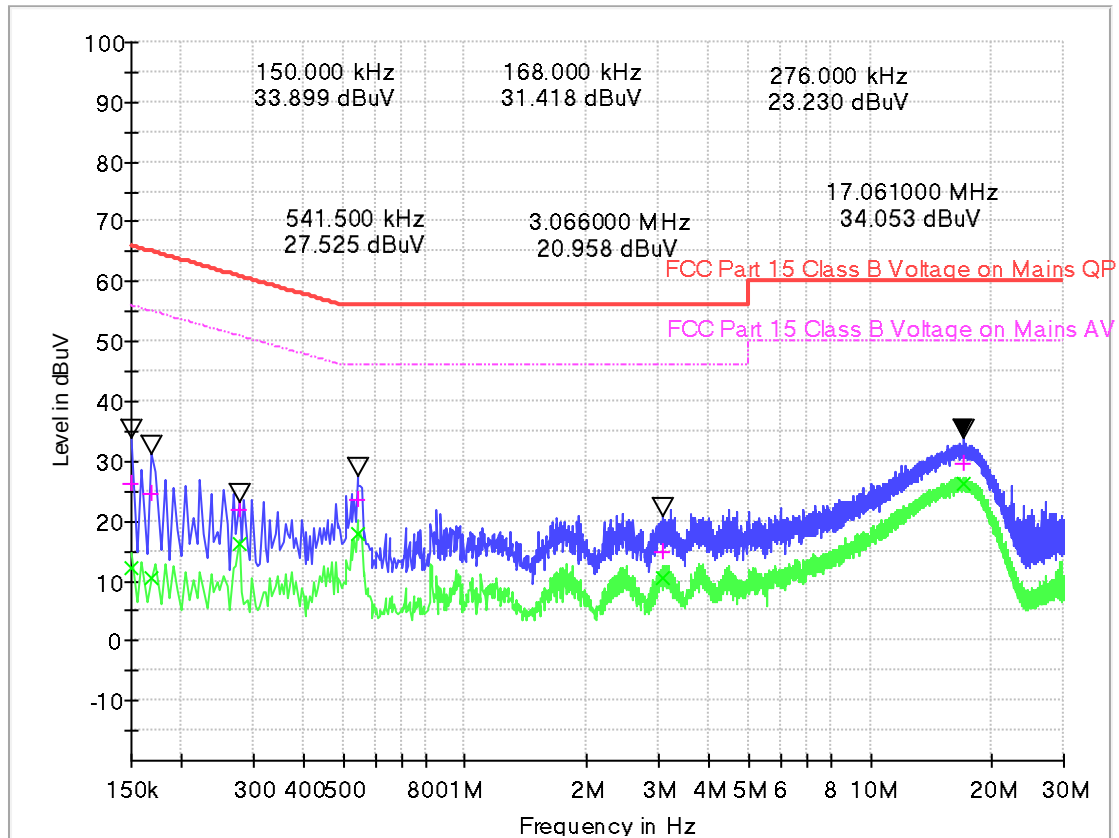
Pre-scan all test modes, and so only show the worst-case test result (2433MHz, 10MHz BW, MIMO)

Line:



Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.159000	31.01	12.13	10.8	34.51	65.5	43.39	55.5
0.271500	22.16	16.62	10.8	38.91	61.1	34.45	51.1
0.541500	29.81	22.30	10.7	26.19	56.0	23.70	46.0
1.770000	19.07	13.88	10.7	36.93	56.0	32.12	46.0
4.470000	21.29	13.56	10.4	34.71	56.0	32.44	46.0
16.903500	31.79	28.05	11.0	28.21	60.0	21.95	50.0

Neutral:

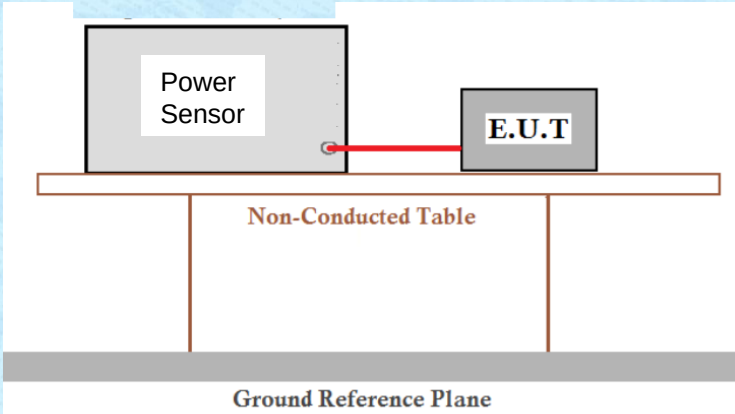


Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.150000	26.33	12.12	10.9	39.67	66.0	43.88	56.0
0.168000	24.59	10.35	10.9	40.47	65.1	44.71	55.1
0.276000	21.81	16.30	10.9	39.13	60.9	34.64	50.9
0.541500	23.61	17.88	10.9	32.39	56.0	28.12	46.0
3.066000	14.84	10.60	10.6	41.16	56.0	35.40	46.0
17.061000	29.70	26.22	11.0	30.30	60.0	23.78	50.0

Notes:

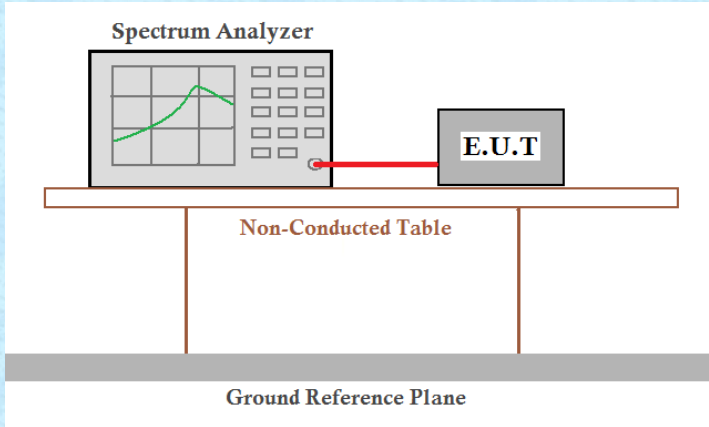
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak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

7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A 'Power Sensor' and an 'E.U.T.' (Equipment Under Test) are positioned on a 'Non-Conducted Table'. A red line indicates a connection between the Power Sensor and the E.U.T. The table is supported by a 'Ground Reference Plane'.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

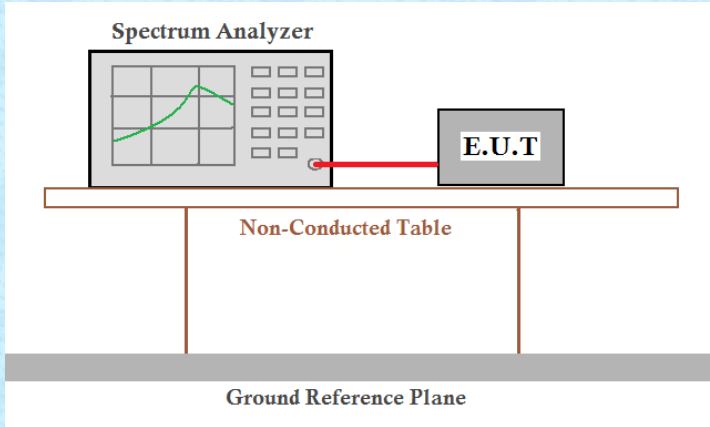
Measurement Data: The detailed test data see Appendix for FCC 2.4G-10M and FCC 2.4G-20M

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.
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 Appendix for FCC 2.4G-10M and FCC 2.4G-20M

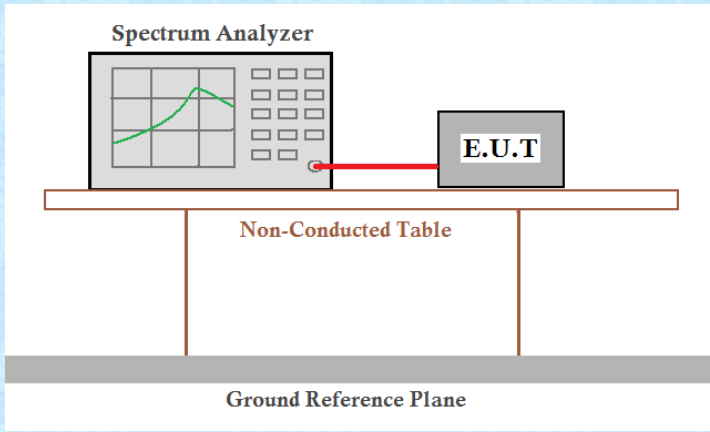
7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013
Limit:	8dBm/3kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.
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 Appendix for FCC 2.4G-10M and FCC 2.4G-20M

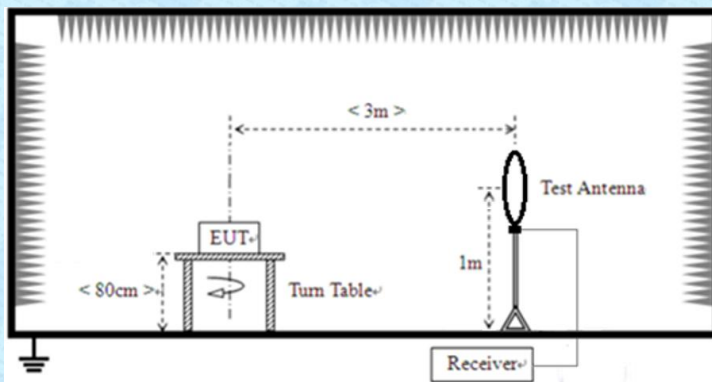
7.6 Spurious Emission in Non-restricted & restricted Bands

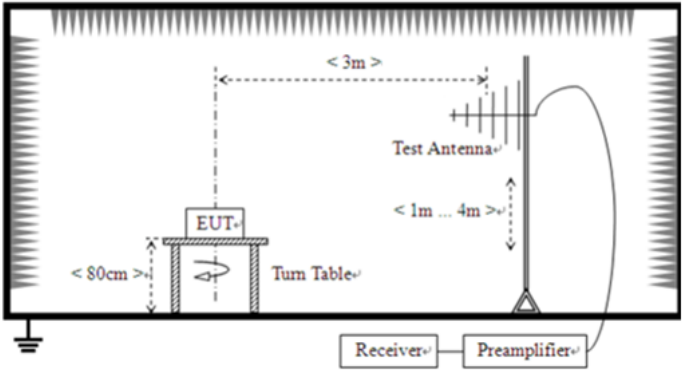
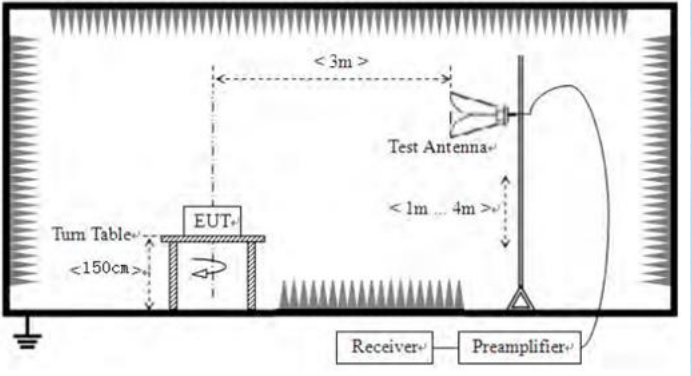
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
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:	 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.
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 Appendix for FCC 2.4G-10M and FCC 2.4G-20M

7.6.2 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	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Note: For Duty cycle $\geq 98\%$, average detector set as above For Duty cycle $< 98\%$, average detector set as below: $VBW \geq 1 / T$					
Limit:	Frequency	Limit (uV/m)	Value	Mea urement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP/PK/AV	300m	
	0.490MH -1.705MHz	24000/F(KHz)	QP	30m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	96 MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					

	For radiated emissions from 30MHz to 1GHz  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. 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 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
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.

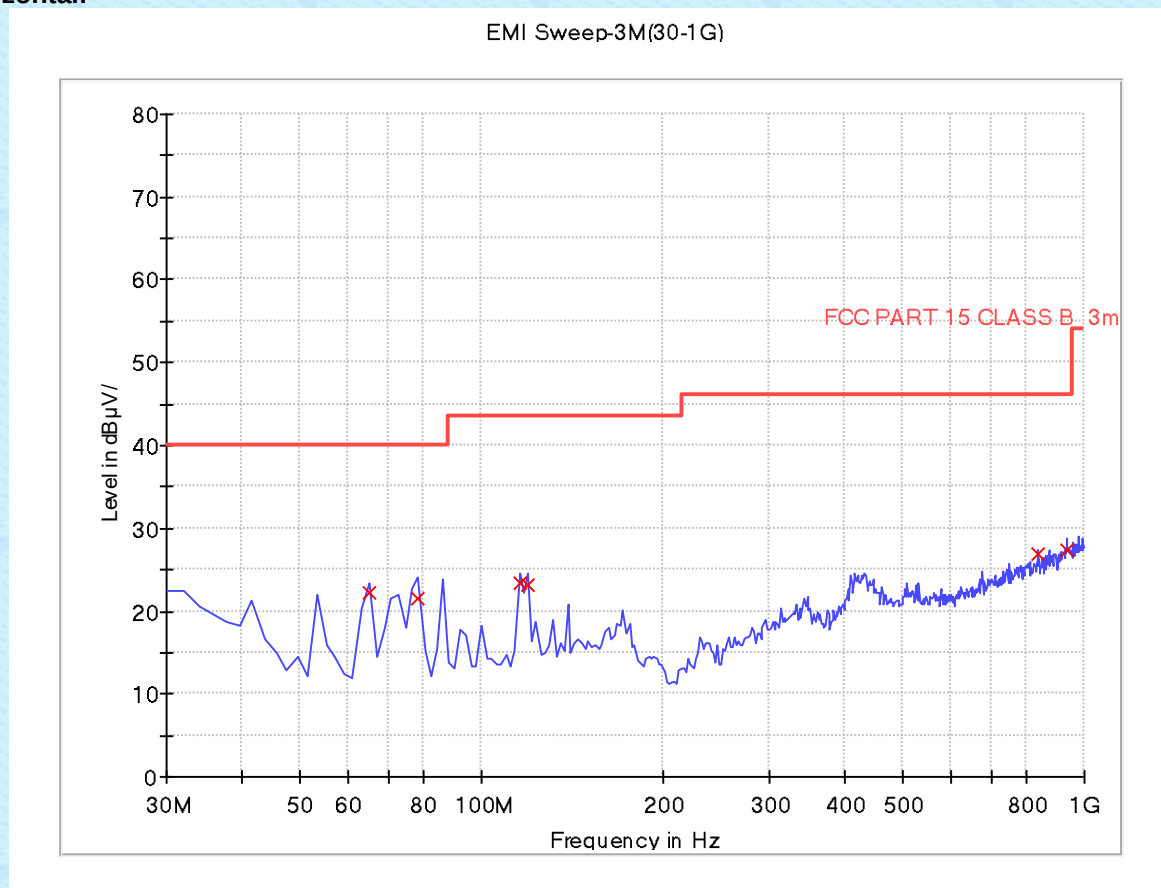
■ 9kHz~30MHz

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

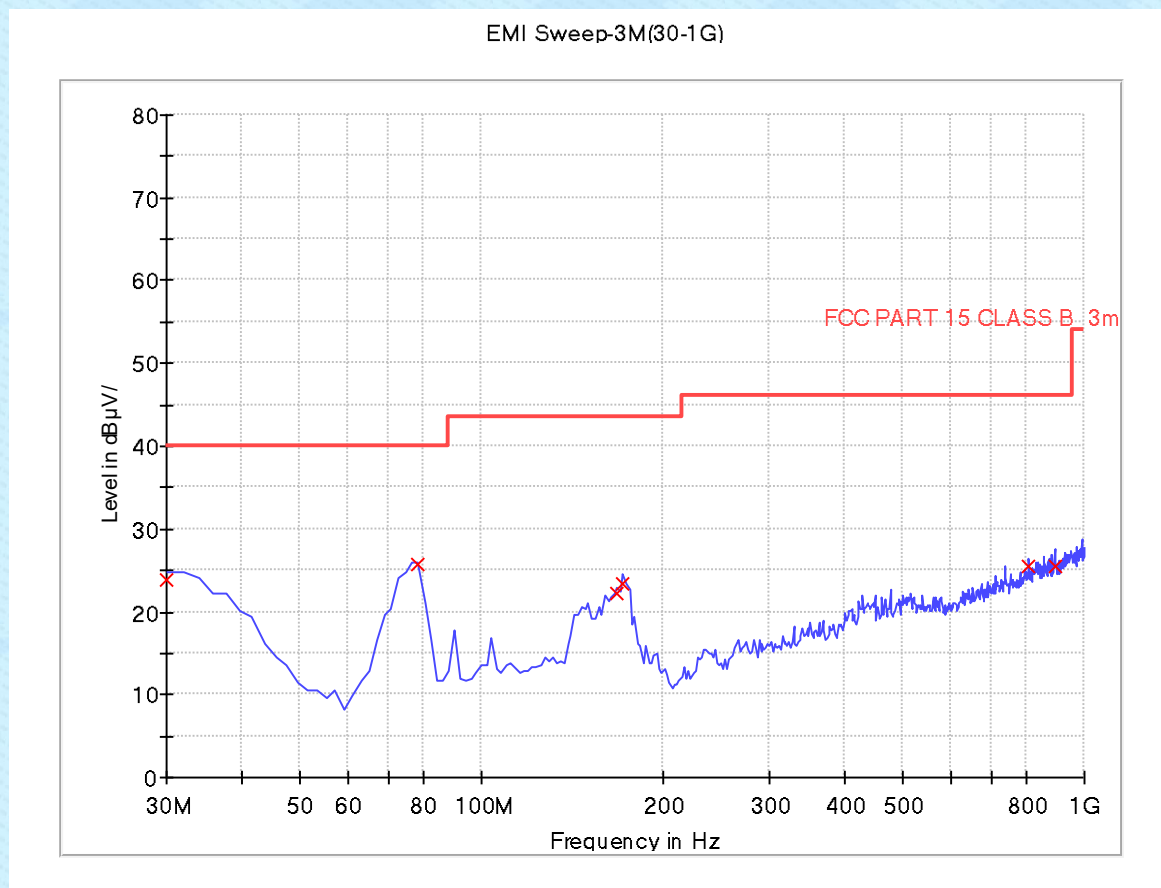
Pre-scan all test modes, found worst case at 2.4G-10M 2411MHz(Ant 2), and so only show the test result of 2.4G-10M 2411MHz(Ant 2).

Horizontal:



Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
65.000000	22.12	1000.	120.000	100.0	H	17.0	7.8	17.88	40.0
78.600000	21.45	1000.	120.000	100.0	H	345.0	9.4	18.55	40.0
115.520000	23.37	1000.	120.000	100.0	H	256.0	12.9	20.13	43.5
119.400000	23.23	1000.	120.000	100.0	H	123.0	13.0	20.27	43.5
838.640000	26.88	1000.	120.000	100.0	H	169.0	23.8	19.12	46.0
935.840000	27.45	1000.	120.000	100.0	H	20.0	25.0	18.55	46.0

Vertical:



Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
30.000000	23.90	1000.	120.000	100.0	V	101.0	21.1	16.10	40.0
78.600000	25.80	1000.	120.000	100.0	V	84.0	9.4	14.20	40.0
168.000000	22.26	1000.	120.000	100.0	V	154.0	12.8	21.24	43.5
171.920000	23.30	1000.	120.000	100.0	V	163.0	12.5	20.20	43.5
809.480000	25.47	1000.	120.000	100.0	V	268.0	23.5	20.53	46.0
893.080000	25.50	1000.	120.000	100.0	V	32.0	24.3	20.50	46.0

■ Above 1GHz

2.4G 10M_2411MHz-Ant 2									
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
2390.00	53.70	74.00	-20.30	1.50	150	56.79	-3.09	Horizontal	Peak
2390.00	43.57	54.00	-10.43	1.50	150	46.66	-3.09	Horizontal	Average
4822.00	49.20	74.00	-24.80	1.50	150	47.94	1.26	Horizontal	Peak
4822.00	38.62	54.00	-15.38	1.50	150	37.36	1.26	Horizontal	Average
7233.00	53.21	74.00	-20.79	1.50	150	47.04	6.17	Horizontal	Peak
7233.00	43.00	54.00	-11.00	1.50	150	36.83	6.17	Horizontal	Average
2390.00	54.01	74.00	-19.99	1.50	320	57.10	-3.09	Vertical	Peak
2390.00	42.62	54.00	-11.38	1.50	320	45.71	-3.09	Vertical	Average
4822.00	48.41	74.00	-25.59	1.50	320	47.15	1.26	Vertical	Peak
4822.00	38.96	54.00	-15.04	1.50	320	37.70	1.26	Vertical	Average
7233.00	52.95	74.00	-21.05	1.50	320	46.78	6.17	Vertical	Peak
7233.00	42.41	54.00	-11.59	1.50	320	36.24	6.17	Vertical	Average
2.4G 10M_2433MHz-Ant 2									
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
4866.00	50.08	74.00	-23.92	1.50	150	49.15	0.93	Horizontal	Peak
4866.00	39.26	54.00	-14.74	1.50	150	38.33	0.93	Horizontal	Average
7299.00	53.29	74.00	-20.71	1.50	150	47.70	5.59	Horizontal	Peak
7299.00	44.90	54.00	-9.10	1.50	150	39.31	5.59	Horizontal	Average
4866.00	48.87	74.00	-25.13	1.50	320	47.94	0.93	Vertical	Peak
4866.00	38.92	54.00	-15.08	1.50	320	37.99	0.93	Vertical	Average
7299.00	53.02	74.00	-20.98	1.50	320	47.43	5.59	Vertical	Peak
7299.00	41.93	54.00	-12.07	1.50	320	36.34	5.59	Vertical	Average

2.4G 10M_2466MHz-Ant 2									
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
2483.50	54.82	74.00	-19.18	1.50	150	59.57	-4.75	Horizontal	Peak
2483.50	44.81	54.00	-9.19	1.50	150	49.56	-4.75	Horizontal	Average
4932.00	49.20	74.00	-24.80	1.50	150	48.96	0.24	Horizontal	Peak
4932.00	37.02	54.00	-16.98	1.50	150	36.78	0.24	Horizontal	Average
7398.00	51.65	74.00	-22.35	1.50	150	45.83	5.82	Horizontal	Peak
7398.00	42.97	54.00	-11.03	1.50	150	37.15	5.82	Horizontal	Average
2483.50	53.97	74.00	-20.03	1.50	320	58.72	-4.75	Vertical	Peak
2483.50	44.79	54.00	-9.21	1.50	320	49.54	-4.75	Vertical	Average
4932.00	47.62	74.00	-26.38	1.50	320	47.38	0.24	Vertical	Peak
4932.00	37.11	54.00	-16.89	1.50	320	36.87	0.24	Vertical	Average
7398.00	52.02	74.00	-21.98	1.50	320	46.20	5.82	Vertical	Peak
7398.00	42.14	54.00	-11.86	1.50	320	36.32	5.82	Vertical	Average

2.4G 20M_2411MHz-Ant 2									
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
2390.00	53.33	74.00	-20.67	1.50	150	56.42	-3.09	Horizontal	Peak
2390.00	43.54	54.00	-10.46	1.50	150	46.63	-3.09	Horizontal	Average
4822.00	49.58	74.00	-24.42	1.50	150	48.32	1.26	Horizontal	Peak
4822.00	38.18	54.00	-15.82	1.50	150	36.92	1.26	Horizontal	Average
7233.00	52.84	74.00	-21.16	1.50	150	46.67	6.17	Horizontal	Peak
7233.00	43.12	54.00	-10.88	1.50	150	36.95	6.17	Horizontal	Average
2390.00	54.27	74.00	-19.73	1.50	320	57.36	-3.09	Vertical	Peak
2390.00	42.86	54.00	-11.14	1.50	320	45.95	-3.09	Vertical	Average
4822.00	48.33	74.00	-25.67	1.50	320	47.07	1.26	Vertical	Peak
4822.00	39.30	54.00	-14.70	1.50	320	38.04	1.26	Vertical	Average
7233.00	53.41	74.00	-20.59	1.50	320	47.24	6.17	Vertical	Peak
7233.00	42.39	54.00	-11.61	1.50	320	36.22	6.17	Vertical	Average
2.4G 20M_2433MHz-Ant 2									
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
4866.00	49.82	74.00	-24.18	1.50	150	48.89	0.93	Horizontal	Peak
4866.00	39.10	54.00	-14.90	1.50	150	38.17	0.93	Horizontal	Average
7299.00	52.95	74.00	-21.05	1.50	150	47.36	5.59	Horizontal	Peak
7299.00	45.22	54.00	-8.78	1.50	150	39.63	5.59	Horizontal	Average
4866.00	48.62	74.00	-25.38	1.50	320	47.69	0.93	Vertical	Peak
4866.00	39.00	54.00	-15.00	1.50	320	38.07	0.93	Vertical	Average
7299.00	53.25	74.00	-20.75	1.50	320	47.66	5.59	Vertical	Peak
7299.00	42.34	54.00	-11.66	1.50	320	36.75	5.59	Vertical	Average

2.4G 20M_2466MHz-Ant 2									
Fre. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	55.15	74.00	-18.85	1.50	150	59.90	-4.75	Horizontal	Peak
2483.50	45.01	54.00	-8.99	1.50	150	49.76	-4.75	Horizontal	Average
4932.00	49.40	74.00	-24.60	1.50	150	49.16	0.24	Horizontal	Peak
4932.00	37.11	54.00	-16.89	1.50	150	36.87	0.24	Horizontal	Average
7398.00	51.51	74.00	-22.49	1.50	150	45.69	5.82	Horizontal	Peak
7398.00	42.88	54.00	-11.12	1.50	150	37.06	5.82	Horizontal	Average
2483.50	54.37	74.00	-19.63	1.50	320	59.12	-4.75	Vertical	Peak
2483.50	44.61	54.00	-9.39	1.50	320	49.36	-4.75	Vertical	Average
4932.00	47.60	74.00	-26.40	1.50	320	47.36	0.24	Vertical	Peak
4932.00	37.30	54.00	-16.70	1.50	320	37.06	0.24	Vertical	Average
7398.00	52.20	74.00	-21.80	1.50	320	46.38	5.82	Vertical	Peak
7398.00	42.28	54.00	-11.72	1.50	320	36.46	5.82	Vertical	Average

2.4G 10M_2411MHz-MIMO									
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
2390.00	54.14	74.00	-19.86	1.50	150	57.23	-3.09	Horizontal	Peak
2390.00	43.86	54.00	-10.14	1.50	150	46.95	-3.09	Horizontal	Average
4822.00	48.98	74.00	-25.02	1.50	150	47.72	1.26	Horizontal	Peak
4822.00	38.73	54.00	-15.27	1.50	150	37.47	1.26	Horizontal	Average
7233.00	52.80	74.00	-21.20	1.50	150	46.63	6.17	Horizontal	Peak
7233.00	43.10	54.00	-10.90	1.50	150	36.93	6.17	Horizontal	Average
2390.00	54.31	74.00	-19.69	1.50	320	57.40	-3.09	Vertical	Peak
2390.00	42.83	54.00	-11.17	1.50	320	45.92	-3.09	Vertical	Average
4822.00	47.95	74.00	-26.05	1.50	320	46.69	1.26	Vertical	Peak
4822.00	39.18	54.00	-14.82	1.50	320	37.92	1.26	Vertical	Average
7233.00	52.86	74.00	-21.14	1.50	320	46.69	6.17	Vertical	Peak
7233.00	42.48	54.00	-11.52	1.50	320	36.31	6.17	Vertical	Average
2.4G 10M_2433MHz-MIMO									
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
4866.00	50.10	74.00	-23.90	1.50	150	49.17	0.93	Horizontal	Peak
4866.00	38.88	54.00	-15.12	1.50	150	37.95	0.93	Horizontal	Average
7299.00	53.36	74.00	-20.64	1.50	150	47.77	5.59	Horizontal	Peak
7299.00	45.05	54.00	-8.95	1.50	150	39.46	5.59	Horizontal	Average
4866.00	48.77	74.00	-25.23	1.50	320	47.84	0.93	Vertical	Peak
4866.00	39.35	54.00	-14.65	1.50	320	38.42	0.93	Vertical	Average
7299.00	53.39	74.00	-20.61	1.50	320	47.80	5.59	Vertical	Peak
7299.00	42.18	54.00	-11.82	1.50	320	36.59	5.59	Vertical	Average

2.4G 10M_2466MHz-MIMO									
Fre. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	55.09	74.00	-18.91	1.50	150	59.84	-4.75	Horizontal	Peak
2483.50	44.71	54.00	-9.29	1.50	150	49.46	-4.75	Horizontal	Average
4932.00	49.23	74.00	-24.77	1.50	150	48.99	0.24	Horizontal	Peak
4932.00	36.89	54.00	-17.11	1.50	150	36.65	0.24	Horizontal	Average
7398.00	51.92	74.00	-22.08	1.50	150	46.10	5.82	Horizontal	Peak
7398.00	43.04	54.00	-10.96	1.50	150	37.22	5.82	Horizontal	Average
2483.50	53.64	74.00	-20.36	1.50	320	58.39	-4.75	Vertical	Peak
2483.50	44.39	54.00	-9.61	1.50	320	49.14	-4.75	Vertical	Average
4932.00	47.22	74.00	-26.78	1.50	320	46.98	0.24	Vertical	Peak
4932.00	36.68	54.00	-17.32	1.50	320	36.44	0.24	Vertical	Average
7398.00	52.20	74.00	-21.80	1.50	320	46.38	5.82	Vertical	Peak
7398.00	42.03	54.00	-11.97	1.50	320	36.21	5.82	Vertical	Average

2.4G 20M_2411MHz-MIMO									
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
2390.00	53.77	74.00	-20.23	1.50	150	56.86	-3.09	Horizontal	Peak
2390.00	43.59	54.00	-10.41	1.50	150	46.68	-3.09	Horizontal	Average
4822.00	49.10	74.00	-24.90	1.50	150	47.84	1.26	Horizontal	Peak
4822.00	38.03	54.00	-15.97	1.50	150	36.77	1.26	Horizontal	Average
7233.00	53.17	74.00	-20.83	1.50	150	47.00	6.17	Horizontal	Peak
7233.00	42.96	54.00	-11.04	1.50	150	36.79	6.17	Horizontal	Average
2390.00	53.88	74.00	-20.12	1.50	320	56.97	-3.09	Vertical	Peak
2390.00	43.35	54.00	-10.65	1.50	320	46.44	-3.09	Vertical	Average
4822.00	48.43	74.00	-25.57	1.50	320	47.17	1.26	Vertical	Peak
4822.00	39.08	54.00	-14.92	1.50	320	37.82	1.26	Vertical	Average
7233.00	53.61	74.00	-20.39	1.50	320	47.44	6.17	Vertical	Peak
7233.00	42.04	54.00	-11.96	1.50	320	35.87	6.17	Vertical	Average
2.4G 20M_2433MHz-MIMO									
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
4866.00	50.24	74.00	-23.76	1.50	150	49.31	0.93	Horizontal	Peak
4866.00	39.47	54.00	-14.53	1.50	150	38.54	0.93	Horizontal	Average
7299.00	52.75	74.00	-21.25	1.50	150	47.16	5.59	Horizontal	Peak
7299.00	45.44	54.00	-8.56	1.50	150	39.85	5.59	Horizontal	Average
4866.00	49.03	74.00	-24.97	1.50	320	48.10	0.93	Vertical	Peak
4866.00	38.53	54.00	-15.47	1.50	320	37.60	0.93	Vertical	Average
7299.00	53.71	74.00	-20.29	1.50	320	48.12	5.59	Vertical	Peak
7299.00	42.76	54.00	-11.24	1.50	320	37.17	5.59	Vertical	Average

2.4G 20M_2466MHz-MIMO									
Fre. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	54.85	74.00	-19.15	1.50	150	59.60	-4.75	Horizontal	Peak
2483.50	45.09	54.00	-8.91	1.50	150	49.84	-4.75	Horizontal	Average
4932.00	49.14	74.00	-24.86	1.50	150	48.90	0.24	Horizontal	Peak
4932.00	37.06	54.00	-16.94	1.50	150	36.82	0.24	Horizontal	Average
7398.00	51.79	74.00	-22.21	1.50	150	45.97	5.82	Horizontal	Peak
7398.00	42.43	54.00	-11.57	1.50	150	36.61	5.82	Horizontal	Average
2483.50	54.36	74.00	-19.64	1.50	320	59.11	-4.75	Vertical	Peak
2483.50	44.61	54.00	-9.39	1.50	320	49.36	-4.75	Vertical	Average
4932.00	47.52	74.00	-26.48	1.50	320	47.28	0.24	Vertical	Peak
4932.00	36.93	54.00	-17.07	1.50	320	36.69	0.24	Vertical	Average
7398.00	52.45	74.00	-21.55	1.50	320	46.63	5.82	Vertical	Peak
7398.00	42.39	54.00	-11.61	1.50	320	36.57	5.82	Vertical	Average

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. Only 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 25GHz, Only worst-case data is reported.

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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