

TEST REPORT

Applicant: HANSHOW TECHNOLOGY CO.,LTD.

Address of Applicant: Building 1(IF podium building and 4F) and Building 5 (7F) in
Jiaxing Photovolta High-tech Park, No. 1288 Kanghe Rd.,
Xiuzhou District, Jiaxing, Zhejiang, China

Manufacturer: HANSHOW TECHNOLOGY CO.,LTD.

**Address of
Manufacturer:** Building 1(IF podium building and 4F) and Building 5 (7F) in
Jiaxing Photovolta High-tech Park, No. 1288 Kanghe Rd.,
Xiuzhou District, Jiaxing, Zhejiang, China

Equipment Under Test (EUT)

Product Name: ESL Controller

Model No.: HS_C09961

FCC ID: 2AYMH-P9961

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

Date of sample receipt: April 30, 2025

Date of Test: April 30, 2025-June 10, 2025

Date of report issued: June 10, 2025

Test Result : PASS *

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

Authorized Signature:

Robinson Luo

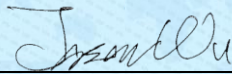
Laboratory Manager

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

Report No.	Version No.	Date	Description
GTS2024090177F02	00	October 25, 2024	Original
GTS2025040661F02	01	June 10, 2025	Class II permissive change

Prepared By:

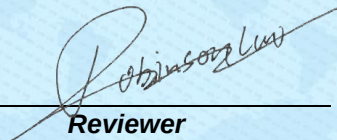


Project Engineer

Date:

June 10, 2025

Check By:



Reviewer

Date:

June 10, 2025

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 GENERAL DESCRIPTION OF EUT	5
5.2 TEST MODE	7
5.3 DESCRIPTION OF SUPPORT UNITS	7
5.4 DEVIATION FROM STANDARDS	7
5.5 ABNORMALITIES FROM STANDARD CONDITIONS	7
5.6 TEST FACILITY	7
5.7 TEST LOCATION	7
5.8 ADDITIONAL INSTRUCTIONS	7
6 TEST INSTRUMENTS LIST	8
7 TEST RESULTS AND MEASUREMENT DATA	10
7.1 ANTENNA REQUIREMENT	10
7.2 CONDUCTED EMISSIONS	11
7.3 SPURIOUS EMISSION IN NON-RESTRICTED & RESTRICTED BANDS	14
7.3.1 Radiated Emission Method	14
8 TEST SETUP PHOTO	30
9 EUT CONSTRUCTIONAL DETAILS	30

4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	N/A *
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	N/A *
Power Spectral Density	FCC part 15.247 (e)	N/A *
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remarks:

1. Test according to ANSI C63.10:2013.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A*: Not applicable. This's a Class II permissive change report, all of the changes are not effect to the RF performance, function and power. So the RF conducted test data directly reference the original report number GTS2024090177F02.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
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 uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	ESL Controller
Model No.:	HS_C09961
Test sample(s) ID:	GTS2025040661-1
Sample(s) Status	Engineer sample
S/N:	927430061594116723
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Internal Antenna
Antenna gain:	ANT 1: 4.16dBi ANT 2: 4.05dBi
Power supply:	DC 12.0V by Adapter Or DC 36V~57V by POE

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. Both two power supply modes were tested and only reported the worst case adapter.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

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:

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

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
GTS	Adapter	K651-1205000D	N/A

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).

- **CNAS (No. CNAS L5775)**

CNAS has accredited Global United Technology Services Co., Ltd., to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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

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	Apr. 11, 2025	Apr. 10, 2026
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. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 02, 2024	Jul. 01, 2025
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.16, 2024	Nov.15, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 13, 2024	Nov. 12, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
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. 12, 2025	Apr. 11, 2026
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2025	Apr. 10, 2026
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 15, 2025	Apr. 14, 2026
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 12, 2025	Apr. 11, 2026
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2025	Apr. 10, 2026
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2025	Apr. 10, 2026
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2025	Apr. 10, 2026
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A
11	Current probe	CYBERTEK	EM5011	GTS698	Jan. 13, 2025	Jan. 12, 2026

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	Aug. 17, 2024	Aug. 16, 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.	
EUT Antenna:	
The antenna is Internal antenna, reference to the appendix II for details	

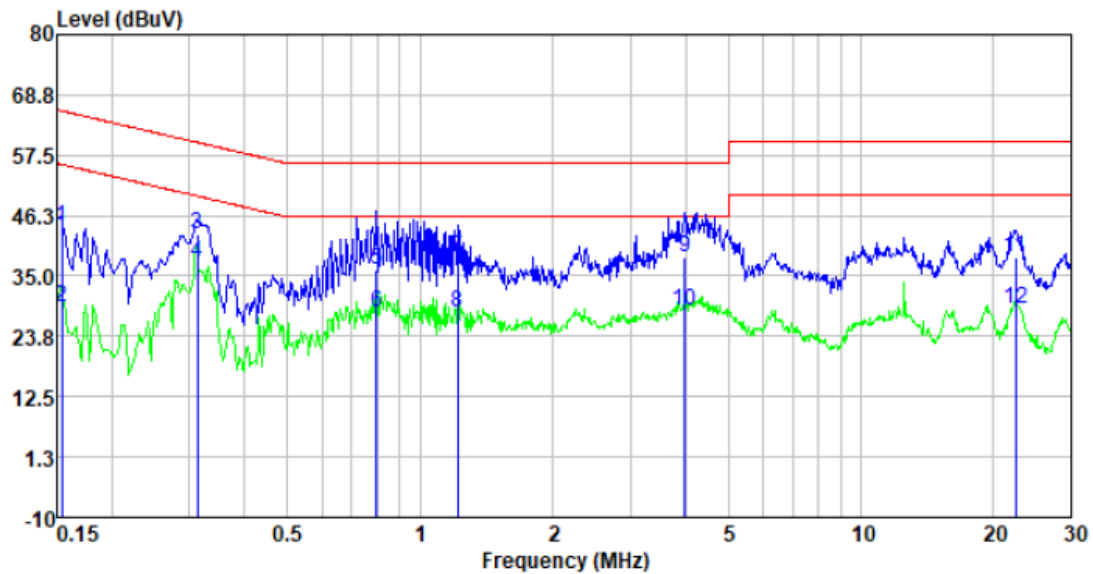
7.2 Conducted Emissions

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, 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 40cm LISN 40cm AUX Equipment E.U.T 80cm 40cm LISN Filter AC power EMI Receiver Test table/Insulation 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

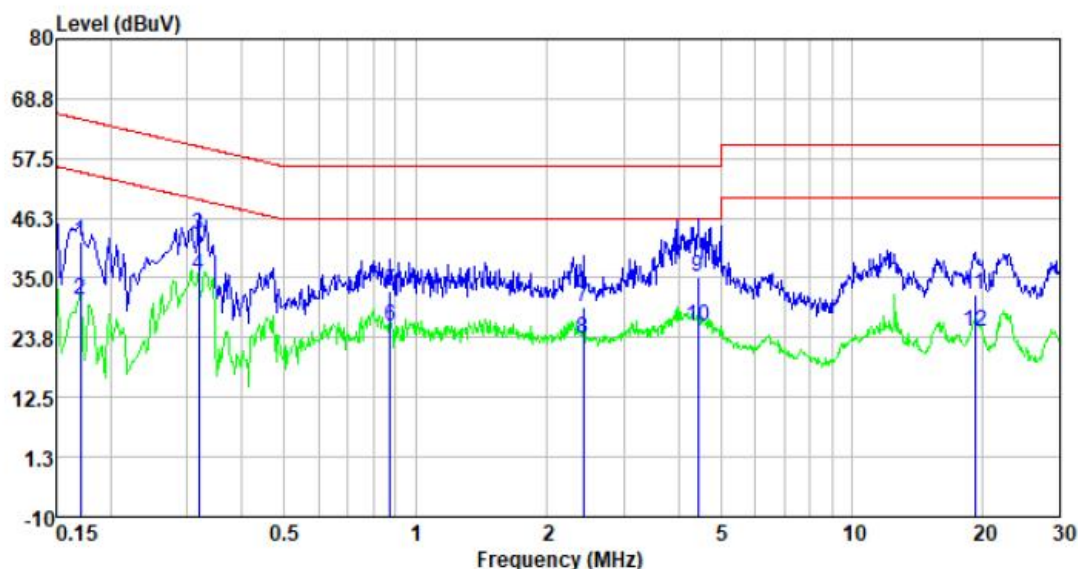
Pre-scan all test modes, found worst case at 802.11g 2462MHz@Ant 1, and so only show the test result of it.

Line:



Freq	Reading level	LISN/ISN factor	Cable loss	Level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.15	23.98	10.01	0.01	44.00	65.78	-21.78	QP
0.15	9.10	10.01	0.01	29.12	55.78	-26.66	Average
0.31	23.02	9.65	0.01	42.68	59.93	-17.25	QP
0.31	17.77	9.65	0.01	37.43	49.93	-12.50	Average
0.80	16.50	9.77	0.02	36.29	56.00	-19.71	QP
0.80	8.54	9.77	0.02	28.33	46.00	-17.67	Average
1.22	18.64	9.96	0.03	38.63	56.00	-17.37	QP
1.22	8.36	9.96	0.03	28.35	46.00	-17.65	Average
3.99	18.89	9.39	0.06	38.34	56.00	-17.66	QP
3.99	9.00	9.39	0.06	28.45	46.00	-17.55	Average
22.42	18.26	9.88	0.19	38.33	60.00	-21.67	QP
22.42	8.73	9.88	0.19	28.80	50.00	-21.20	Average

Neutral:



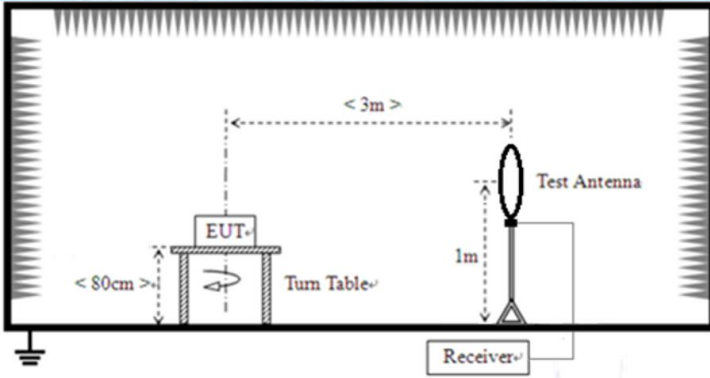
Freq	Reading	LISN/ISN	Cable	Level	Limit	Over	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.17	21.84	9.97	0.01	41.82	64.94	-23.12	QP
0.17	10.95	9.97	0.01	30.93	54.94	-24.01	Average
0.32	23.23	9.79	0.01	43.03	59.75	-16.72	QP
0.32	15.69	9.79	0.01	35.49	49.75	-14.26	Average
0.88	12.62	9.84	0.03	32.49	56.00	-23.51	QP
0.88	5.98	9.84	0.03	25.85	46.00	-20.15	Average
2.42	9.80	9.62	0.05	29.47	56.00	-26.53	QP
2.42	3.90	9.62	0.05	23.57	46.00	-22.43	Average
4.43	15.48	9.73	0.06	35.27	56.00	-20.73	QP
4.43	6.10	9.73	0.06	25.89	46.00	-20.11	Average
19.12	11.66	9.85	0.18	31.69	60.00	-28.31	QP
19.12	4.82	9.85	0.18	24.85	50.00	-25.15	Average

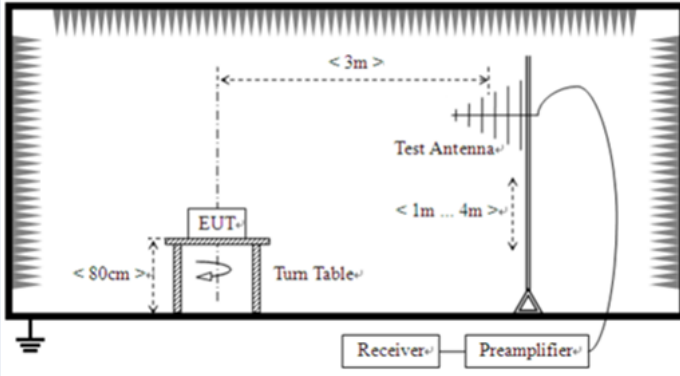
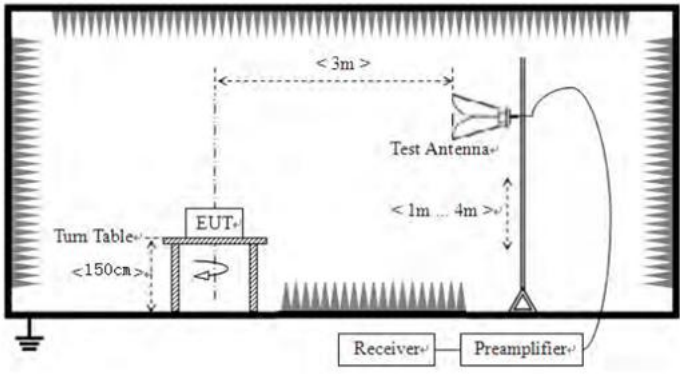
Notes:

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 Spurious Emission in Non-restricted & restricted Bands

7.3.1 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 ≥ 98%, average detector set as above For Duty cycle < 98%, average detector set as below: VBW ≥ 1 / T				
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	PK/QP/A V	300m	
	0.490MHz-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		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
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. 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:	<table><tr><td>Temp.:</td><td>25 °C</td><td>Humid.:</td><td>52%</td><td>Press.:</td><td>1012mbar</td></tr></table>	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
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:

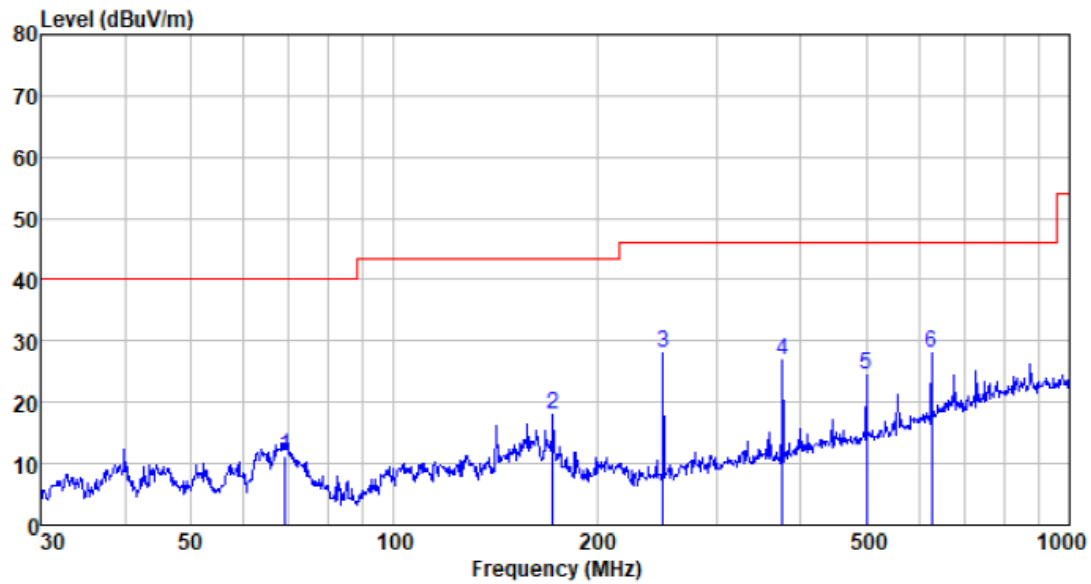
■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

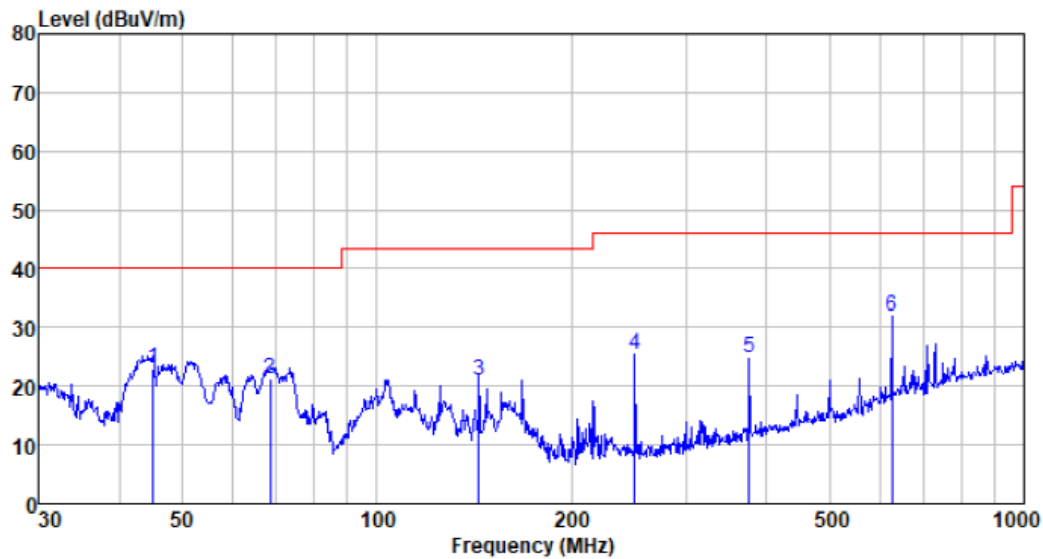
Pre-scan all test modes, found worst case at 802.11g 2462MHz@Ant 1, and so only show the test result of it.

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
69.114	31.14	10.89	1.64	32.38	11.29	40.00	-28.71	QP
171.995	34.55	13.30	2.65	32.43	18.07	43.50	-25.43	QP
250.301	46.64	10.51	3.17	32.35	27.97	46.00	-18.03	QP
375.939	41.20	14.22	3.78	32.26	26.94	46.00	-19.06	QP
501.179	35.68	16.82	4.20	32.20	24.50	46.00	-21.50	QP
625.078	35.50	19.60	4.75	31.74	28.11	46.00	-17.89	QP

Vertical:



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
45.058	40.53	13.49	1.33	32.30	23.05	40.00	-16.95	QP
68.391	40.94	10.96	1.62	32.37	21.15	40.00	-18.85	QP
143.830	36.78	14.08	2.41	32.46	20.81	43.50	-22.69	QP
250.301	43.93	10.51	3.17	32.35	25.26	46.00	-20.74	QP
375.939	38.91	14.22	3.78	32.26	24.65	46.00	-21.35	QP
625.078	39.36	19.60	4.75	31.74	31.97	46.00	-14.03	QP

Above 1GHz

■ Unwanted Emissions in non-restricted Frequency Bands

■ All antennas have test, only the worst case ANT 1 report.

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.12	31.22	4.63	37.68	35.29	74.00	-38.71	Vertical
7236.00	32.21	36.25	6.52	37.81	37.17	74.00	-36.83	Vertical
9648.00	31.28	37.97	7.99	37.93	39.31	74.00	-34.69	Vertical
4824.00	36.28	31.22	4.63	37.68	34.45	74.00	-39.55	Horizontal
7236.00	32.21	36.25	6.52	37.81	37.17	74.00	-36.83	Horizontal
9648.00	30.97	37.97	7.99	37.93	39.00	74.00	-35.00	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	26.45	31.22	4.63	37.68	24.62	54.00	-29.38	Vertical
7236.00	21.15	36.25	6.52	37.81	26.11	54.00	-27.89	Vertical
9648.00	21.68	37.97	7.99	37.93	29.71	54.00	-24.29	Vertical
4824.00	25.99	31.22	4.63	37.68	24.16	54.00	-29.84	Horizontal
7236.00	20.85	36.25	6.52	37.81	25.81	54.00	-28.19	Horizontal
9648.00	20.76	37.97	7.99	37.93	28.79	54.00	-25.21	Horizontal

Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.72	31.31	4.69	37.63	35.09	74.00	-38.91	Vertical
7311.00	32.63	36.39	6.61	37.78	37.85	74.00	-36.15	Vertical
9748.00	32.55	38.10	8.03	37.95	40.73	74.00	-33.27	Vertical
4874.00	37.61	31.31	4.69	37.63	35.98	74.00	-38.02	Horizontal
7311.00	31.48	36.39	6.61	37.78	36.70	74.00	-37.30	Horizontal
9748.00	32.53	38.10	8.03	37.95	40.71	74.00	-33.29	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.78	31.31	4.69	37.63	26.15	54.00	-27.85	Vertical
7311.00	21.00	36.39	6.61	37.78	26.22	54.00	-27.78	Vertical
9748.00	21.85	38.10	8.03	37.95	30.03	54.00	-23.97	Vertical
4874.00	27.86	31.31	4.69	37.63	26.23	54.00	-27.77	Horizontal
7311.00	20.61	36.39	6.61	37.78	25.83	54.00	-28.17	Horizontal
9748.00	22.28	38.10	8.03	37.95	30.46	54.00	-23.54	Horizontal

Test mode:	802.11b	Test channel:	Highest
------------	---------	---------------	---------

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
4924.00	40.36	31.37	4.75	37.58	38.90	74.00	-35.10	Vertical
7386.00	32.10	36.57	6.71	37.74	37.64	74.00	-36.36	Vertical
9848.00	34.98	38.20	8.07	37.58	43.67	74.00	-30.33	Vertical
4924.00	40.37	31.37	4.75	37.58	38.91	74.00	-35.09	Horizontal
7386.00	31.36	36.57	6.71	37.74	36.90	74.00	-37.10	Horizontal
9848.00	31.31	38.20	8.07	37.58	40.00	74.00	-34.00	Horizontal

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
4924.00	31.63	31.37	4.75	37.58	30.17	54.00	-23.83	Vertical
7386.00	22.12	36.57	6.71	37.74	27.66	54.00	-26.34	Vertical
9848.00	23.57	38.20	8.07	37.58	32.26	54.00	-21.74	Vertical
4924.00	30.97	31.37	4.75	37.58	29.51	54.00	-24.49	Horizontal
7386.00	20.83	36.57	6.71	37.74	26.37	54.00	-27.63	Horizontal
9848.00	20.64	38.20	8.07	37.58	29.33	54.00	-24.67	Horizontal

Test mode:	802.11g	Test channel:	lowest
------------	---------	---------------	--------

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
4824.00	37.32	31.24	4.63	37.68	35.51	74.00	-38.49	Vertical
7236.00	32.34	36.25	6.52	37.80	37.31	74.00	-36.69	Vertical
9648.00	31.37	37.97	7.98	37.93	39.39	74.00	-34.61	Vertical
4824.00	36.45	31.24	4.63	37.68	34.64	74.00	-39.36	Horizontal
7236.00	32.32	36.25	6.52	37.80	37.29	74.00	-36.71	Horizontal
9648.00	31.05	37.97	7.98	37.93	39.07	74.00	-34.93	Horizontal

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
4824.00	26.63	31.24	4.63	37.68	24.82	54.00	-29.18	Vertical
7236.00	21.27	36.25	6.52	37.80	26.24	54.00	-27.76	Vertical
9648.00	21.77	37.97	7.98	37.93	29.79	54.00	-24.21	Vertical
4824.00	26.14	31.24	4.63	37.68	24.33	54.00	-29.67	Horizontal
7236.00	20.95	36.25	6.52	37.80	25.92	54.00	-28.08	Horizontal
9648.00	20.84	37.97	7.98	37.93	28.86	54.00	-25.14	Horizontal

Test mode:	802.11g	Test channel:	Middle
------------	---------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.89	31.31	4.69	37.62	35.27	74.00	-38.73	Vertical
7311.00	32.73	36.39	6.61	37.78	37.95	74.00	-36.05	Vertical
9748.00	32.62	38.10	8.02	37.95	40.79	74.00	-33.21	Vertical
4874.00	37.75	31.31	4.69	37.62	36.13	74.00	-37.87	Horizontal
7311.00	31.57	36.39	6.61	37.78	36.79	74.00	-37.21	Horizontal
9748.00	32.59	38.10	8.02	37.95	40.76	74.00	-33.24	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.93	31.31	4.69	37.62	26.31	54.00	-27.69	Vertical
7311.00	21.10	36.39	6.61	37.78	26.32	54.00	-27.68	Vertical
9748.00	21.92	38.10	8.02	37.95	30.09	54.00	-23.91	Vertical
4874.00	27.99	31.31	4.69	37.62	26.37	54.00	-27.63	Horizontal
7311.00	20.70	36.39	6.61	37.78	25.92	54.00	-28.08	Horizontal
9748.00	22.35	38.10	8.02	37.95	30.52	54.00	-23.48	Horizontal

Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	40.63	31.37	4.75	37.58	39.17	74.00	-34.83	Vertical
7386.00	32.28	36.57	6.71	37.74	37.82	74.00	-36.18	Vertical
9848.00	35.11	38.20	8.07	37.58	43.80	74.00	-30.20	Vertical
4924.00	40.60	31.37	4.75	37.58	39.14	74.00	-34.86	Horizontal
7386.00	31.52	36.57	6.71	37.74	37.06	74.00	-36.94	Horizontal
9848.00	31.43	38.20	8.07	37.58	40.12	74.00	-33.88	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	31.88	31.37	4.75	37.58	30.42	54.00	-23.58	Vertical
7386.00	22.29	36.57	6.71	37.74	27.83	54.00	-26.17	Vertical
9848.00	23.69	38.20	8.07	37.58	32.38	54.00	-21.62	Vertical
4924.00	31.19	31.37	4.75	37.58	29.73	54.00	-24.27	Horizontal
7386.00	20.98	36.57	6.71	37.74	26.52	54.00	-27.48	Horizontal
9848.00	20.75	38.20	8.07	37.58	29.44	54.00	-24.56	Horizontal

Test mode:	802.11n(HT20)	Test channel:	Lowest
------------	---------------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.45	31.24	4.63	37.68	35.64	74.00	-38.36	Vertical
7236.00	32.42	36.25	6.52	37.80	37.39	74.00	-36.61	Vertical
9648.00	31.43	37.97	7.98	37.93	39.45	74.00	-34.55	Vertical
4824.00	36.56	31.24	4.63	37.68	34.75	74.00	-39.25	Horizontal
7236.00	32.40	36.25	6.52	37.80	37.37	74.00	-36.63	Horizontal
9648.00	31.11	37.97	7.98	37.93	39.13	74.00	-34.87	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	26.76	31.24	4.63	37.68	24.95	54.00	-29.05	Vertical
7236.00	21.35	36.25	6.52	37.80	26.32	54.00	-27.68	Vertical
9648.00	21.83	37.97	7.98	37.93	29.85	54.00	-24.15	Vertical
4824.00	26.25	31.24	4.63	37.68	24.44	54.00	-29.56	Horizontal
7236.00	21.03	36.25	6.52	37.80	26.00	54.00	-28.00	Horizontal
9648.00	20.90	37.97	7.98	37.93	28.92	54.00	-25.08	Horizontal

Test mode:	802.11n(HT20)	Test channel:	Middle
------------	---------------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.00	31.31	4.69	37.62	35.38	74.00	-38.62	Vertical
7311.00	32.80	36.39	6.61	37.78	38.02	74.00	-35.98	Vertical
9748.00	32.67	38.10	8.02	37.95	40.84	74.00	-33.16	Vertical
4874.00	37.84	31.31	4.69	37.62	36.22	74.00	-37.78	Horizontal
7311.00	31.63	36.39	6.61	37.78	36.85	74.00	-37.15	Horizontal
9748.00	32.64	38.10	8.02	37.95	40.81	74.00	-33.19	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.04	31.31	4.69	37.62	26.42	54.00	-27.58	Vertical
7311.00	21.17	36.39	6.61	37.78	26.39	54.00	-27.61	Vertical
9748.00	21.97	38.10	8.02	37.95	30.14	54.00	-23.86	Vertical
4874.00	28.08	31.31	4.69	37.62	26.46	54.00	-27.54	Horizontal
7311.00	20.76	36.39	6.61	37.78	25.98	54.00	-28.02	Horizontal
9748.00	22.39	38.10	8.02	37.95	30.56	54.00	-23.44	Horizontal

Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	40.83	31.37	4.75	37.58	39.37	74.00	-34.63	Vertical
7386.00	32.40	36.57	6.71	37.74	37.94	74.00	-36.06	Vertical
9848.00	35.20	38.20	8.07	37.58	43.89	74.00	-30.11	Vertical
4924.00	40.76	31.37	4.75	37.58	39.30	74.00	-34.70	Horizontal
7386.00	31.62	36.57	6.71	37.74	37.16	74.00	-36.84	Horizontal
9848.00	31.51	38.20	8.07	37.58	40.20	74.00	-33.80	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	32.06	31.37	4.75	37.58	30.60	54.00	-23.40	Vertical
7386.00	22.41	36.57	6.71	37.74	27.95	54.00	-26.05	Vertical
9848.00	23.77	38.20	8.07	37.58	32.46	54.00	-21.54	Vertical
4924.00	31.34	31.37	4.75	37.58	29.88	54.00	-24.12	Horizontal
7386.00	21.08	36.57	6.71	37.74	26.62	54.00	-27.38	Horizontal
9848.00	20.83	38.20	8.07	37.58	29.52	54.00	-24.48	Horizontal

Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------

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
4844.00	37.56	31.26	4.65	37.66	35.81	74.00	-38.19	Vertical
7266.00	32.49	36.30	6.57	37.79	37.57	74.00	-36.43	Vertical
9688.00	31.48	38.03	8.00	37.94	39.57	74.00	-34.43	Vertical
4844.00	36.66	31.26	4.65	37.66	34.91	74.00	-39.09	Horizontal
7266.00	32.46	36.30	6.57	37.79	37.54	74.00	-36.46	Horizontal
9688.00	31.15	38.03	8.00	37.94	39.24	74.00	-34.76	Horizontal

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
4844.00	26.86	31.26	4.65	37.66	25.11	54.00	-28.89	Vertical
7266.00	21.42	36.30	6.57	37.79	26.50	54.00	-27.50	Vertical
9688.00	21.88	38.03	8.00	37.94	29.97	54.00	-24.03	Vertical
4844.00	26.34	31.26	4.65	37.66	24.59	54.00	-29.41	Horizontal
7266.00	21.09	36.30	6.57	37.79	26.17	54.00	-27.83	Horizontal
9688.00	20.94	38.03	8.00	37.94	29.03	54.00	-24.97	Horizontal

Test mode:	802.11n(HT40)	Test channel:	Middle
------------	---------------	---------------	--------

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
4874.00	37.09	31.31	4.69	37.62	35.47	74.00	-38.53	Vertical
7311.00	32.86	36.39	6.61	37.78	38.08	74.00	-35.92	Vertical
9748.00	32.71	38.10	8.03	37.95	40.89	74.00	-33.11	Vertical
4874.00	37.92	31.31	4.69	37.62	36.30	74.00	-37.70	Horizontal
7311.00	31.68	36.39	6.61	37.78	36.90	74.00	-37.10	Horizontal
9748.00	32.68	38.10	8.03	37.95	40.86	74.00	-33.14	Horizontal

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
4874.00	28.12	31.31	4.69	37.62	26.50	54.00	-27.50	Vertical
7311.00	21.23	36.39	6.61	37.78	26.45	54.00	-27.55	Vertical
9748.00	22.01	38.10	8.03	37.95	30.19	54.00	-23.81	Vertical
4874.00	28.15	31.31	4.69	37.62	26.53	54.00	-27.47	Horizontal
7311.00	20.81	36.39	6.61	37.78	26.03	54.00	-27.97	Horizontal
9748.00	22.43	38.10	8.03	37.95	30.61	54.00	-23.39	Horizontal

Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	40.99	31.35	4.71	37.60	39.45	74.00	-34.55	Vertical
7356.00	32.50	36.53	6.67	37.76	37.94	74.00	-36.06	Vertical
9808.00	35.27	38.17	8.05	37.96	43.53	74.00	-30.47	Vertical
4904.00	40.90	31.35	4.71	37.60	39.36	74.00	-34.64	Horizontal
7356.00	31.71	36.53	6.67	37.76	37.15	74.00	-36.85	Horizontal
9808.00	31.57	38.17	8.05	37.96	39.83	74.00	-34.17	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	32.21	31.35	4.71	37.60	30.67	54.00	-23.33	Vertical
7356.00	22.50	36.53	6.67	37.76	27.94	54.00	-26.06	Vertical
9808.00	23.84	38.17	8.05	37.96	32.10	54.00	-21.90	Vertical
4904.00	31.46	31.35	4.71	37.60	29.92	54.00	-24.08	Horizontal
7356.00	21.17	36.53	6.67	37.76	26.61	54.00	-27.39	Horizontal
9808.00	20.89	38.17	8.05	37.96	29.15	54.00	-24.85	Horizontal

Notes:

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.

- Unwanted Emissions in restricted Frequency Bands
- All antennas have test, only the worst case ANT 1 report.

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.58	27.14	2.81	38.64	30.89	74.00	-43.11	Horizontal
2390.00	47.90	27.37	2.91	38.84	39.34	74.00	-34.66	Horizontal
2310.00	38.12	27.14	2.81	38.64	29.43	74.00	-44.57	Vertical
2390.00	49.14	27.37	2.91	38.84	40.58	74.00	-33.42	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.94	27.14	2.81	38.64	21.25	54.00	-32.75	Horizontal
2390.00	37.01	27.37	2.91	38.84	28.45	54.00	-25.55	Horizontal
2310.00	28.59	27.14	2.81	38.64	19.90	54.00	-34.10	Vertical
2390.00	38.98	27.37	2.91	38.84	30.42	54.00	-23.58	Vertical

Test mode:	802.11b	Test channel:	Highest
------------	---------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.35	27.82	2.99	39.05	40.11	74.00	-33.89	Horizontal
2500.00	40.84	27.70	3.01	39.10	32.45	74.00	-41.55	Horizontal
2483.50	48.19	27.82	2.99	39.05	39.95	74.00	-34.05	Vertical
2500.00	41.99	27.70	3.01	39.10	33.60	74.00	-40.40	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.99	27.82	2.99	39.05	28.75	54.00	-25.25	Horizontal
2500.00	33.49	27.70	3.01	39.10	25.10	54.00	-28.90	Horizontal
2483.50	37.75	27.82	2.99	39.05	29.51	54.00	-24.49	Vertical
2500.00	32.29	27.70	3.01	39.10	23.90	54.00	-30.10	Vertical

Test mode:	802.11g	Test channel:	Lowest
------------	---------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.35	27.14	2.81	38.64	30.66	74.00	-43.34	Horizontal
2390.00	47.59	27.37	2.91	38.84	39.03	74.00	-34.97	Horizontal
2310.00	37.87	27.14	2.81	38.64	29.18	74.00	-44.82	Vertical
2390.00	48.77	27.37	2.91	38.84	40.21	74.00	-33.79	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.77	27.14	2.81	38.64	21.08	54.00	-32.92	Horizontal
2390.00	36.82	27.37	2.91	38.84	28.26	54.00	-25.74	Horizontal
2310.00	28.41	27.14	2.81	38.64	19.72	54.00	-34.28	Vertical
2390.00	38.77	27.37	2.91	38.84	30.21	54.00	-23.79	Vertical

Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.02	27.82	2.99	39.05	39.78	74.00	-34.22	Horizontal
2500.00	40.59	27.70	3.01	39.10	32.20	74.00	-41.80	Horizontal
2483.50	47.81	27.82	2.99	39.05	39.57	74.00	-34.43	Vertical
2500.00	41.69	27.70	3.01	39.10	33.30	74.00	-40.70	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.79	27.82	2.99	39.05	28.55	54.00	-25.45	Horizontal
2500.00	33.33	27.70	3.01	39.10	24.94	54.00	-29.06	Horizontal
2483.50	37.53	27.82	2.99	39.05	29.29	54.00	-24.71	Vertical
2500.00	32.12	27.70	3.01	39.10	23.73	54.00	-30.27	Vertical

Test mode:	802.11n(HT20)	Test channel:	Lowest
------------	---------------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.46	27.14	2.81	38.64	30.77	74.00	-43.23	Horizontal
2390.00	47.74	27.37	2.91	38.84	39.18	74.00	-34.82	Horizontal
2310.00	37.99	27.14	2.81	38.64	29.30	74.00	-44.70	Vertical
2390.00	48.94	27.37	2.91	38.84	40.38	74.00	-33.62	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.85	27.14	2.81	38.64	21.16	54.00	-32.84	Horizontal
2390.00	36.91	27.37	2.91	38.84	28.35	54.00	-25.65	Horizontal
2310.00	28.49	27.14	2.81	38.64	19.80	54.00	-34.20	Vertical
2390.00	38.86	27.37	2.91	38.84	30.30	54.00	-23.70	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.17	27.82	2.99	39.05	39.93	74.00	-34.07	Horizontal
2500.00	40.70	27.70	3.01	39.10	32.31	74.00	-41.69	Horizontal
2483.50	47.99	27.82	2.99	39.05	39.75	74.00	-34.25	Vertical
2500.00	41.83	27.70	3.01	39.10	33.44	74.00	-40.56	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.88	27.82	2.99	39.05	28.64	54.00	-25.36	Horizontal
2500.00	33.40	27.70	3.01	39.10	25.01	54.00	-28.99	Horizontal
2483.50	37.63	27.82	2.99	39.05	29.39	54.00	-24.61	Vertical
2500.00	32.20	27.70	3.01	39.10	23.81	54.00	-30.19	Vertical

Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.34	27.14	2.81	38.64	30.65	74.00	-43.35	Horizontal
2390.00	47.58	27.37	2.91	38.84	39.02	74.00	-34.98	Horizontal
2310.00	37.86	27.14	2.81	38.64	29.17	74.00	-44.83	Vertical
2390.00	48.75	27.37	2.91	38.84	40.19	74.00	-33.81	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.77	27.14	2.81	38.64	21.08	54.00	-32.92	Horizontal
2390.00	36.81	27.37	2.91	38.84	28.25	54.00	-25.75	Horizontal
2310.00	28.40	27.14	2.81	38.64	19.71	54.00	-34.29	Vertical
2390.00	38.76	27.37	2.91	38.84	30.20	54.00	-23.80	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.00	27.82	2.99	39.05	39.76	74.00	-34.24	Horizontal
2500.00	40.57	27.70	3.01	39.10	32.18	74.00	-41.82	Horizontal
2483.50	47.79	27.82	2.99	39.05	39.55	74.00	-34.45	Vertical
2500.00	41.68	27.70	3.01	39.10	33.29	74.00	-40.71	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.78	27.82	2.99	39.05	28.54	54.00	-25.46	Horizontal
2500.00	33.32	27.70	3.01	39.10	24.93	54.00	-29.07	Horizontal
2483.50	37.52	27.82	2.99	39.05	29.28	54.00	-24.72	Vertical
2500.00	32.11	27.70	3.01	39.10	23.72	54.00	-30.28	Vertical

Remarks:

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