

TEST REPORT

Applicant: shenzhen Hua Yin display technology Co.,LTD.

Address of Applicant: 201, Building A, Guancheng Low-carbon Industrial Park, Shangcun Community, Gongming Street, Guangming District, Shenzhen, Guangdong, China

Manufacturer/Factory: shenzhen Hua Yin display technology Co.,LTD.

Address of Manufacturer/Factory: 201, Building A, Guancheng Low-carbon Industrial Park, Shangcun Community, Gongming Street, Guangming District, Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Mobile Smart Display

Model No.: DY-MoveView 215A, DY-MoveView 238A, DY-MoveView 27A, DY-MoveView 32A, DY-MoveView 215B, DY-MoveView 238B, DY-MoveView 27B, DY-MoveView 32B, DY-MoveView 215C, DY-MoveView 238C, DY-MoveView 27C, DY-MoveView 32C, DY-MoveView 215D, DY-MoveView 238D, DY-MoveView 27D, DY-MoveView 32D, DY-MoveView 215E, DY-MoveView 238E, DY-MoveView 27E, DY-MoveView 32E, Bisprico-SS-215A, Bisprico-SS-238A, Bisprico-SS-27A, Bisprico-SS-32A, DP96L, RM-PTV027-WH, RM-PTV027-BK, RM-PTV032-WH, RM-PTV032-BK, DAYINN

Trade Mark: DAYINN

FCC ID: 2BEPH-DYMOVEIEW

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

Date of sample receipt: January 11, 2024

Date of Test: January 12, 2024-February 01, 2024

Date of report issue: February 02, 2024

Test Result : PASS *

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

Authorized Signature:



Robinson Luo

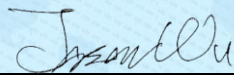
Laboratory Manager

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	February 02, 2024	Original

Prepared By:

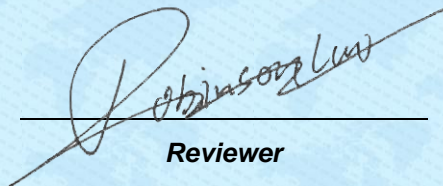


Date:

February 02, 2024

Project Engineer

Check By:



Reviewer

Date:

February 02, 2024

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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
Emission Bandwidth	FCC part 15.407	PASS
Maximum Conducted Output Power	FCC part 15.407(a)(1)	PASS
Power Spectral Density	FCC part 15.407(a)(1)	PASS
Undesirable Emission	FCC part 15.407(b), 15.205/15.209	PASS
Radiated Emission	FCC part 15.205/15.209	PASS
Band Edge	FCC part 15.407(b)(1)	PASS
Frequency Stability	FCC part 15.407(g)	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

4.1 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:	Mobile Smart Display			
Model No.:	DY-MoveView 215A, DY-MoveView 238A, DY-MoveView 27A, DY-MoveView 32A, DY-MoveView 215B, DY-MoveView 238B, DY-MoveView 27B, DY-MoveView 32B, DY-MoveView 215C, DY-MoveView 238C, DY-MoveView 27C, DY-MoveView 32C, DY-MoveView 215D, DY-MoveView 238D, DY-MoveView 27D, DY-MoveView 32D, DY-MoveView 215E, DY-MoveView 238E, DY-MoveView 27E, DY-MoveView 32E, Bisprico-SS-215A, Bisprico-SS-238A, Bisprico-SS-27A, Bisprico-SS-32A, DP96L, RM-PTV027-WH, RM-PTV027-BK, RM-PTV032-WH, RM-PTV032-BK, DAYINN			
Test Model No.:	DY-MoveView 27B			
Remark:All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.				
Test sample(s) ID:	GTS2024010161-1			
Sample(s) Status:	Engineer sample			
S/N:	N/A			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	U-NII Band I	IEEE 802.11a	5180-5240	4
		IEEE 802.11n/ac 20MHz	5180-5240	4
		IEEE 802.11n/ac 40MHz	5190-5230	2
IEEE 802.11ac 80MHz		5210	1	
Modulation technology:	OFDM			
Antenna Type:	Integral Antenna			
Antenna gain:	3.58dBi			
Power supply:	Adapter : Model: NT72-168300D2 Input: AC 100-240V, 50/60Hz, 1.6A Max Output: DC 16.8V, 3.0A, 50.4W Or DC 14.8V for Li-ion battery			

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.

Channel list for 802.11a/n/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

Channel list for 802.11n(HT40)/ac(HT40)			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz

Channel list for 802.11ac(HT80)	
Channel	Frequency
42	5210MHz

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..		
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	Data rate	Mode	Data rate
802.11a/n/ac(HT20)	6/6.5 Mbps	802.11ac(HT80)	29.3 Mbps
802.11n/ac(HT40)	13.5 Mbps		

5.3 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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).

5.4 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

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 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	June 23, 2021	June 22, 2024
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	April 14, 2023	April 13, 2024
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 14, 2023	April 13, 2024
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 13, 2023	Nov.12, 2024
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 14, 2023	April 13, 2024
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 14, 2023	April 13, 2024
11	Horn Antenna (18-26.5GHz)	/	UG-598A/U	GTS664	Oct. 29, 2023	Oct. 28, 2024
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 29, 2023	Oct. 28, 2024
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 13, 2023	March 12, 2024
14	Amplifier	/	LNA-1000-30S	GTS650	April 14, 2023	April 13, 2024
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 08, 2023	Nov.07, 2024
16	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	April 14, 2023	April 13, 2024
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 19, 2023	April 18, 2024
18	RE cable 1	GTS	N/A	GTS675	July 31. 2023	July 30. 2024
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024

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	July 12, 2022	July 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 14, 2023	April 13, 2024
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Thermo meter	JINCHUANG	GSP-8A	GTS642	April 19, 2023	April 18, 2024
7	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	April 14, 2023	April 13, 2024
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 14, 2023	April 13, 2024
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 14, 2023	April 13, 2024
10	Antenna end assembly	Weinschel	1870A	GTS560	April 14, 2023	April 13, 2024

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	April 14, 2023	April 13, 2024
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 14, 2023	April 13, 2024
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 14, 2023	April 13, 2024
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 14, 2023	April 13, 2024
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 14, 2023	April 13, 2024
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 14, 2023	April 13, 2024
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 14, 2023	April 13, 2024
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 19, 2023	April 18, 2024
10	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 03, 2023	Nov. 02, 2024

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	April 19, 2023	April 18, 2024

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<i>15.203 requirement:</i> 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 integral antenna, reference to the appendix II for details	

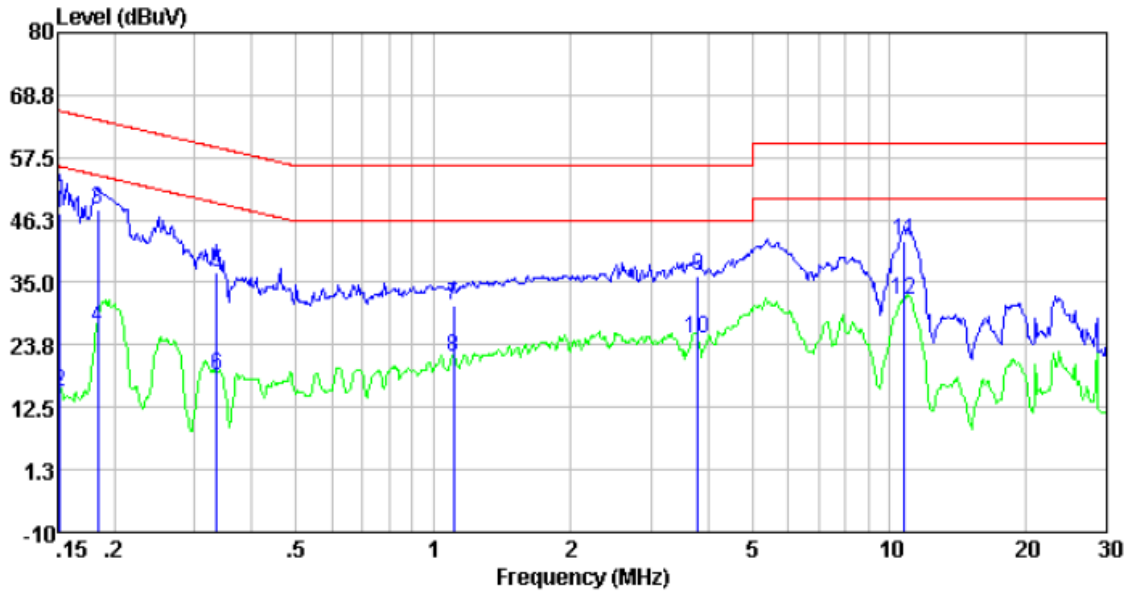
7.2 Conducted Emissions

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				
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 procedure	<p>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide 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 refers 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.</p>				
Test setup:	<p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network</p>				
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:

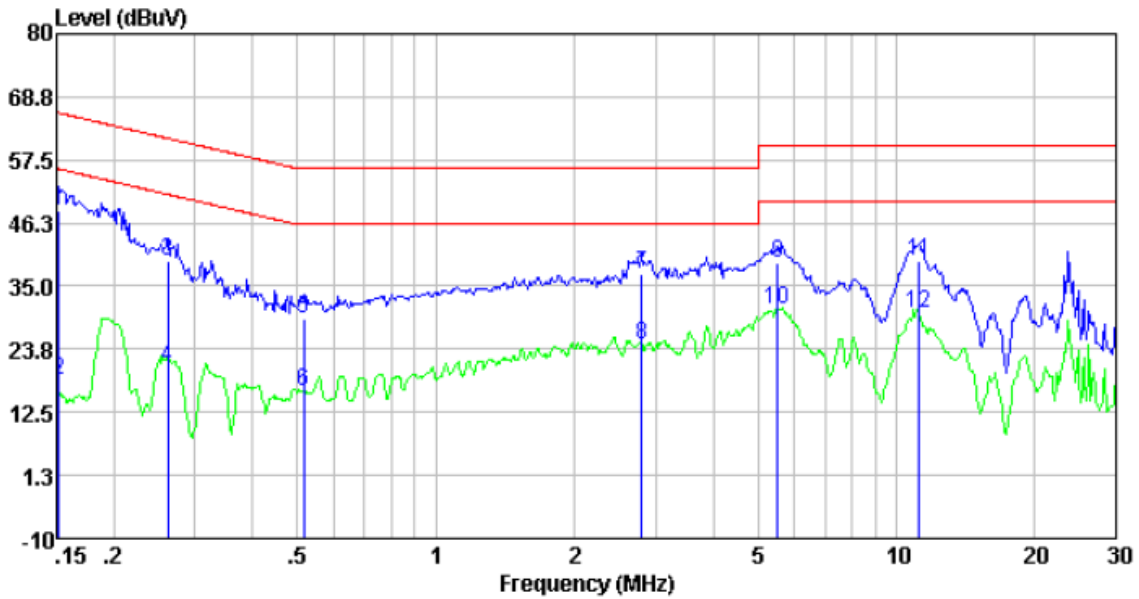
Pre-scan all test modes, found worst case at 802.11a 5180MHz, and so only show the test result of it

Line:



Freq	Reading	LISN/ISN	Cable	Limit	Over	Remark	
MHz	dBuV	factor	loss	Level	limit		
		dB	dB	dBuV	dBuV	dB	
0.15	37.87	9.56	0.01	47.44	65.91	-18.47	QP
0.15	5.60	9.56	0.01	15.17	55.91	-40.74	Average
0.18	38.57	9.53	0.01	48.11	64.33	-16.22	QP
0.18	17.29	9.53	0.01	26.83	54.33	-27.50	Average
0.34	27.16	9.49	0.01	36.66	59.31	-22.65	QP
0.34	8.69	9.49	0.01	18.19	49.31	-31.12	Average
1.11	21.33	9.51	0.03	30.87	56.00	-25.13	QP
1.11	11.95	9.51	0.03	21.49	46.00	-24.51	Average
3.80	26.49	9.51	0.06	36.06	56.00	-19.94	QP
3.80	15.13	9.51	0.06	24.70	46.00	-21.30	Average
10.79	32.91	9.36	0.12	42.39	60.00	-17.61	QP
10.79	22.44	9.36	0.12	31.92	50.00	-18.08	Average

Neutral:

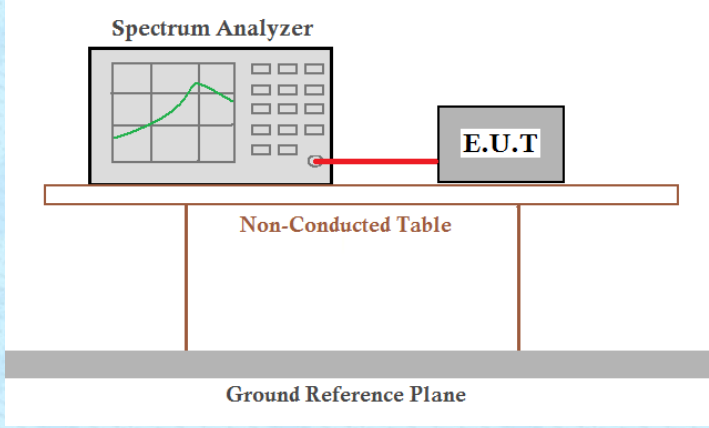


Freq	Reading level	LISN/ISN factor	Cable loss	Level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.15	38.87	9.55	0.01	48.43	65.91	-17.48	QP
0.15	8.68	9.55	0.01	18.24	55.91	-37.67	Average
0.26	29.84	9.56	0.01	39.41	61.38	-21.97	QP
0.26	10.88	9.56	0.01	20.45	51.38	-30.93	Average
0.52	19.50	9.57	0.01	29.08	56.00	-26.92	QP
0.52	6.51	9.57	0.01	16.09	46.00	-29.91	Average
2.79	27.60	9.56	0.05	37.21	56.00	-18.79	QP
2.79	15.02	9.56	0.05	24.63	46.00	-21.37	Average
5.53	29.63	9.55	0.07	39.25	60.00	-20.75	QP
5.53	21.09	9.55	0.07	30.71	50.00	-19.29	Average
11.20	29.92	9.55	0.12	39.59	60.00	-20.41	QP
11.20	20.38	9.55	0.12	30.05	50.00	-19.95	Average

Notes:

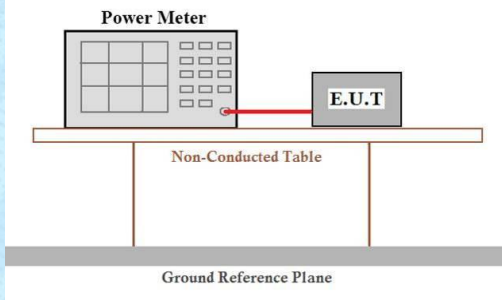
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

7.3 Emission Bandwidth

Test Requirement :	FCC Part15 E Section 15.407
Test Method :	ANSI C63.10:2013 & KDB 789033 D02 v02r01
Limit:	N/A
Test setup:	 <p>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 two legs and sits on a Ground Reference Plane.</p>
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

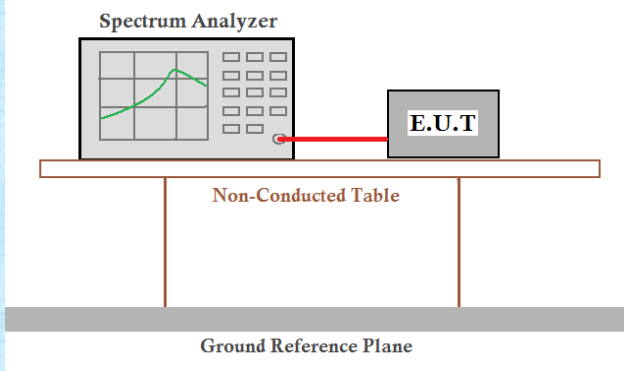
Measurement Data: The detailed test data see Appendix.

7.4 Maximum Conducted Output Power

Test Requirement	FCC Part15 E Section 15.407	
Test Method :	ANSI C63.10:2013 & KDB 789033 D02 v02r01	
Limit:	Frequency band (MHz)	Limit
	5150-5250	≤1W(30dBm) for master device
		≤250Mw(23.98dBm) for client device
	5250-5350	≤250Mw(23.98dBm) for client device or 11dBm+10logB*
	5470-5725	≤250Mw(23.98dBm) for client device or 11dBm+10logB*
Remark: *Where B is the 26Db emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.		
Test setup:		
Duty Cycle set up:	RBW=VBW=8MHz	
Test procedure:	<p>Measurement using an RF average power meter</p> <p>(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied</p> <p>a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.</p> <p>b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.</p> <p>c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.</p> <p>(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).</p> <p>(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.</p> <p>(iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).</p>	
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.

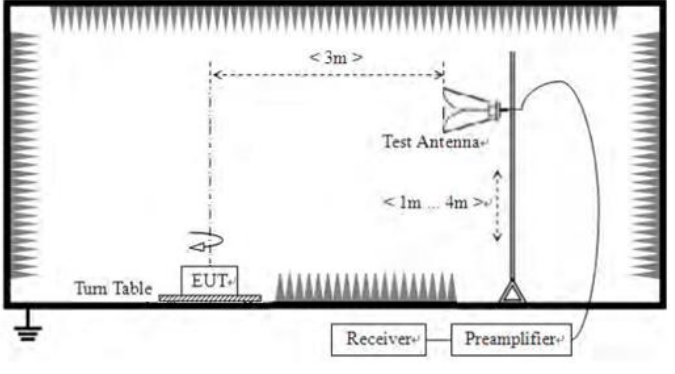
7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407									
Test Method :	ANSI C63.10:2013 & KDB 789033 D02 v02r01									
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">5150-5250</td> <td>≤17dBm in 1MHz for master device</td> </tr> <tr> <td>≤11dBm in 1MHz for client device</td> </tr> <tr> <td>5250-5350</td> <td>≤11dBm in 1MHz for client device</td> </tr> <tr> <td>5470-5725</td> <td>≤11dBm in 1MHz for client device</td> </tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤17dBm in 1MHz for master device	≤11dBm in 1MHz for client device	5250-5350	≤11dBm in 1MHz for client device	5470-5725	≤11dBm in 1MHz for client device
	Frequency band (MHz)	Limit								
	5150-5250	≤17dBm in 1MHz for master device								
		≤11dBm in 1MHz for client device								
	5250-5350	≤11dBm in 1MHz for client device								
5470-5725	≤11dBm in 1MHz for client device									
Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.										
Test setup:										
Test procedure:	<ol style="list-style-type: none"> 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: <ol style="list-style-type: none"> a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD. 									
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.

7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205																								
Test Method:	ANSI C63.10:2013																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>AV</td> <td>1MHz</td> <td>3MHz</td> <td>Average Value</td> </tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	AV	1MHz	3MHz	Average Value	
	Frequency	Detector	RBW	VBW	Remark																				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value																				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value																				
AV		1MHz	3MHz	Average Value																					
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>68.2</td> <td>Peak Value</td> </tr> </tbody> </table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	68.2	Peak Value
	Frequency	Limit (dBuV/m @3m)	Remark																						
	30MHz-88MHz	40.0	Quasi-peak Value																						
	88MHz-216MHz	43.5	Quasi-peak Value																						
	216MHz-960MHz	46.0	Quasi-peak Value																						
	960MHz-1GHz	54.0	Quasi-peak Value																						
	Above 1GHz	54.0	Average Value																						
68.2		Peak Value																							
Undesirable emission limits:																									
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.																									
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.																									
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.																									
Test Procedure:	<ol style="list-style-type: none"> a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 																								

<p>Test setup:</p>	<p>sheet.</p> <p>For radiated emissions above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>
<p>Test results:</p>	<p>Pass</p>

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. *According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:
 $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$
 For example, if $\text{EIRP} = -27\text{dBm}$
 $E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$*

Measurement Data:

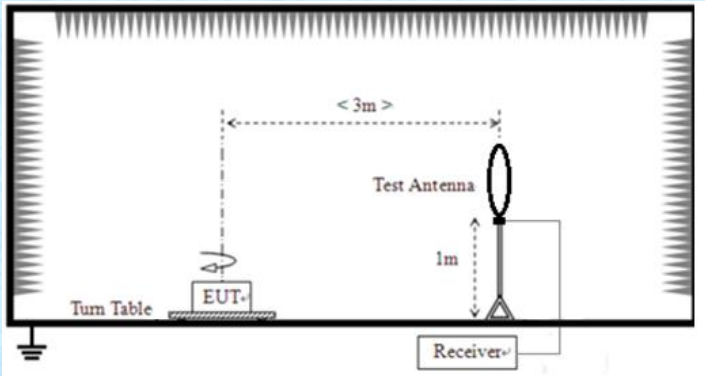
Worse case mode:		802.11a		Test Frequency:		5180MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	50.54	-3.63	46.91	68.20	-21.29	peak	H
5150	46.19	-3.63	42.56	54.00	-11.44	AVG	H
5150	52.11	-3.63	48.48	68.20	-19.72	peak	V
5150	45.56	-3.63	41.93	54.00	-12.07	AVG	V
Worse case mode:		802.11a		Test Frequency:		5240MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5350	49.04	-3.59	45.45	68.20	-22.75	peak	H
5350	45.53	-3.59	41.94	54.00	-12.06	AVG	H
5350	50.69	-3.59	47.10	68.20	-21.10	peak	V
5350	44.24	-3.59	40.65	54.00	-13.35	AVG	V
Worse case mode:		802.11n		Test Frequency:		5180MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	49.78	-3.63	46.15	68.20	-22.05	peak	H
5150	46.41	-3.63	42.78	54.00	-11.22	AVG	H
5150	52.22	-3.63	48.59	68.20	-19.61	peak	V
5150	44.96	-3.63	41.33	54.00	-12.67	AVG	V
Worse case mode:		802.11n		Test Frequency:		5240MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5350	49.25	-3.59	45.66	68.20	-22.54	peak	H
5350	45.58	-3.59	41.99	54.00	-12.01	AVG	H
5350	49.87	-3.59	46.28	68.20	-21.92	peak	V
5350	44.22	-3.59	40.63	54.00	-13.37	AVG	V
Worse case mode:		802.11ac		Test Frequency:		5180MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	50.54	-3.63	46.91	68.20	-21.29	peak	H
5150	46.19	-3.63	42.56	54.00	-11.44	AVG	H
5150	52.11	-3.63	48.48	68.20	-19.72	peak	V
5150	45.56	-3.63	41.93	54.00	-12.07	AVG	V

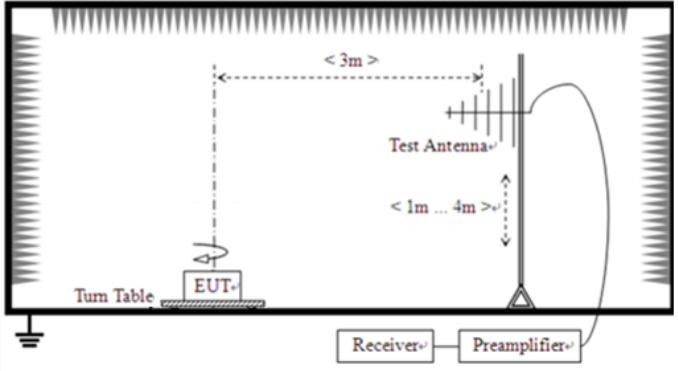
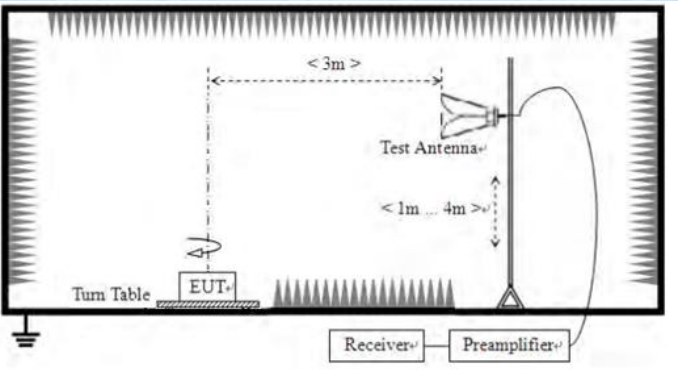
Worse case mode:		802.11ac		Test Frequency:		5240MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol.
							H/V
5350	49.03	-3.59	45.44	68.20	-22.76	peak	H
5350	45.53	-3.59	41.94	54.00	-12.06	AVG	H
5350	50.68	-3.59	47.09	68.20	-21.11	peak	V
5350	44.23	-3.59	40.64	54.00	-13.36	AVG	V
Worse case mode:		802.11n(HT40)		Test Frequency:		5190MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol.
							H/V
5150	49.77	-3.63	46.14	68.20	-22.06	peak	H
5150	46.41	-3.63	42.78	54.00	-11.22	AVG	H
5150	52.22	-3.63	48.59	68.20	-19.61	peak	V
5150	44.96	-3.63	41.33	54.00	-12.67	AVG	V
Worse case mode:		802.11n(HT40)		Test Frequency:		5230MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol.
							H/V
5350	49.22	-3.45	45.77	68.20	-22.43	peak	H
5350	45.56	-3.45	42.11	54.00	-11.89	AVG	H
5350	49.86	-3.45	46.41	68.20	-21.79	peak	V
5350	44.20	-3.45	40.75	54.00	-13.25	AVG	V
Worse case mode:		802.11ac(VHT40)		Test Frequency:		5190MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol.
							H/V
5150	49.30	-3.63	45.67	68.20	-22.53	peak	H
5150	45.41	-3.63	41.78	54.00	-12.22	AVG	H
5150	51.55	-3.63	47.92	68.20	-20.28	peak	V
5150	44.51	-3.63	40.88	54.00	-13.12	AVG	V
Worse case mode:		802.11ac(VHT40)		Test Frequency:		5230MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol.
							H/V
5350	48.35	-3.59	44.76	68.20	-23.44	peak	H
5350	45.02	-3.59	41.43	54.00	-12.57	AVG	H
5350	49.54	-3.59	45.95	68.20	-22.25	peak	V
5350	43.48	-3.59	39.89	54.00	-14.11	AVG	V

Worse case mode:		802.11ac(VHT80)		Test Frequency:		5210MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol.
							H/V
5150	48.67	-3.63	45.04	68.20	-23.16	peak	H
5150	42.46	-3.63	38.83	54.00	-15.17	AVG	H
5150	49.80	-3.63	46.17	68.20	-22.03	peak	V
5150	43.08	-3.63	39.45	54.00	-14.55	AVG	V
5350	49.06	-3.59	45.47	68.20	-22.73	peak	H
5350	41.44	-3.59	37.85	54.00	-16.15	AVG	H
5350	50.59	-3.59	47.00	68.20	-21.20	peak	V
5350	44.41	-3.59	40.82	54.00	-13.18	AVG	V

7.7 Radiated Emission

Test Requirement :	FCC Part15 C Section 15.209 and 15.205					
Test Method :	ANSI C63.10: 2013					
Test Frequency Range:	9kHz to 40GHz					
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		AV	1MHz	3MHz	Average Value	
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 (MHz)		Field strength (microvolts/meter)		Measurement distance (meters)	
	0.009-0.490		2400/F(kHz)		300	
	0.490-1.705		24000/F(kHz)		30	
	1.705-30.0		30		30	
	30-88		100**		3	
	88-216		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 Procedure:	<p>Substitution method was performed to determine the actual ERP emission levels of the EUT.</p> <p>The following test procedure as below:</p> <p>1>.Below 1GHz test procedure:</p> <ol style="list-style-type: none"> 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. 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 				

	<p>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.</p> <p>2>.Above 1GHz test procedure:</p> <ol style="list-style-type: none"> 1. On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: $EIRP(dBm) = P_g(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ where: P_g is the generator output power into the substitution antenna.
<p>Test setup:</p>	<p>For radiated emissions from 9kHz to 30MHz</p>  <p>For radiated emissions from 30MHz to 1GHz</p>

	 <p>For radiated emissions above 1GHz</p> 					
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					

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:

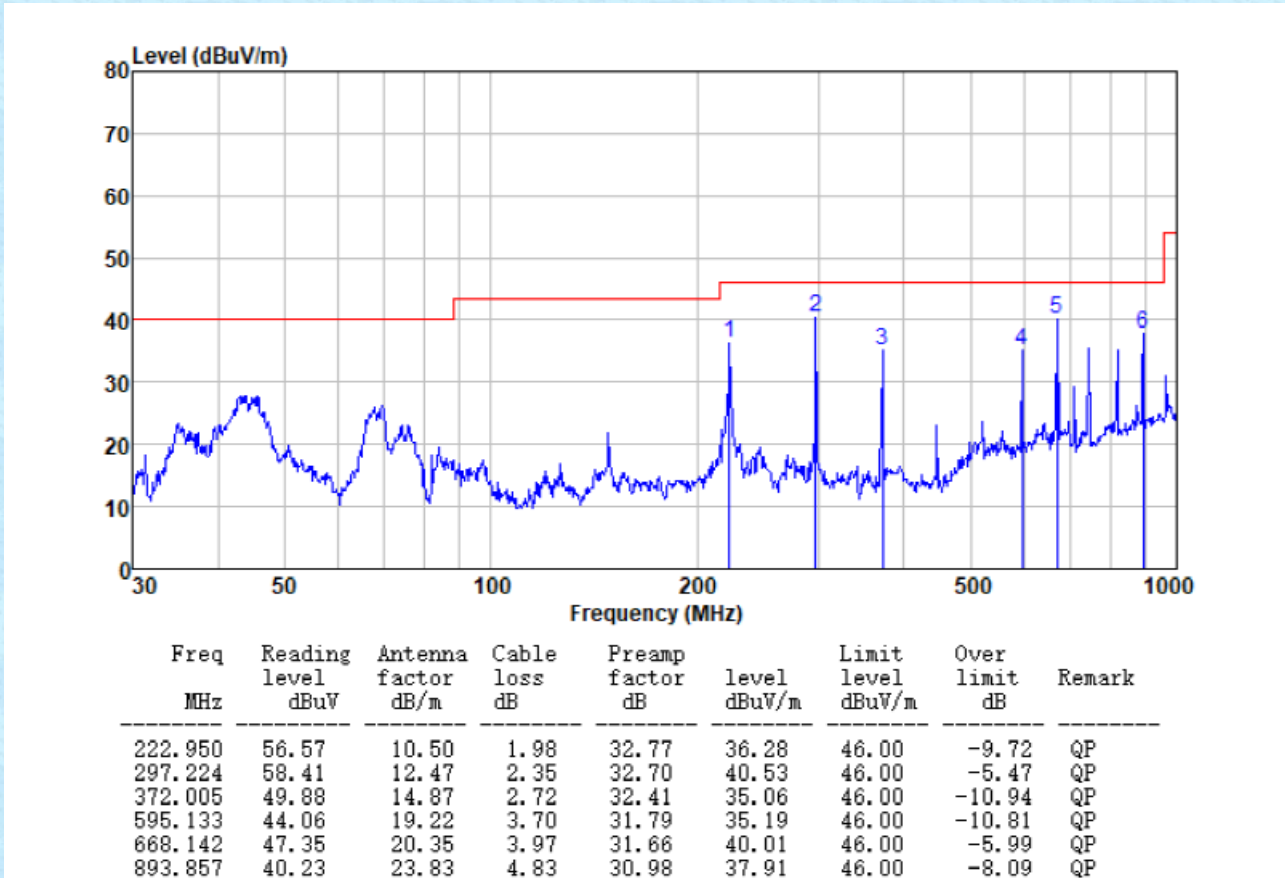
9 kHz ~ 30 MHz

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.

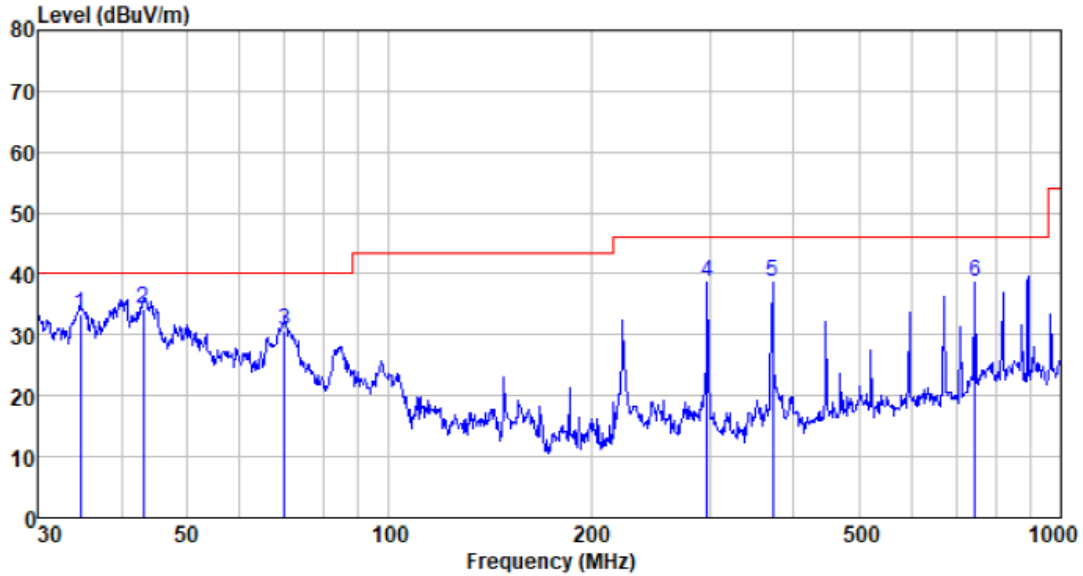
30MHz~ 1GHz

Pre-scan all test modes, found worst case at 802.11a 5180MHz, and so only show the test result of it

Horizontal:



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
34.760	53.79	12.67	0.61	33.77	33.30	40.00	-6.70	QP
43.050	53.76	13.40	0.70	33.71	34.15	40.00	-5.85	QP
69.845	52.86	10.53	0.94	33.60	30.73	40.00	-9.27	QP
297.224	56.50	12.47	2.35	32.70	38.62	46.00	-7.38	QP
372.005	53.49	14.87	2.72	32.41	38.67	46.00	-7.33	QP
744.866	44.03	21.68	4.26	31.44	38.53	46.00	-7.47	QP

Above 1GHz:

802.11a					Test Frequency: 5180MHz			
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
10360	36.44	38.96	8.27	35.64	48.03	68.20	-20.17	Vertical
15540	34.32	38.40	10.57	35.35	47.94	68.20	-20.26	Vertical
10360	35.49	38.96	8.27	35.64	47.08	68.20	-21.12	Horizontal
15540	31.96	38.40	10.57	35.35	45.58	68.20	-22.62	Horizontal
10360	28.80	38.96	8.27	35.64	40.39	54.00	-13.61	Vertical
15540	27.11	38.40	10.57	35.35	40.73	54.00	-13.27	Vertical
10360	26.70	38.96	8.27	35.64	38.29	54.00	-15.71	Horizontal
15540	26.69	38.40	10.57	35.35	40.31	54.00	-13.69	Horizontal

802.11a					Test Frequency: 5200MHz			
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
10400	36.14	39.01	8.29	35.67	47.77	68.20	-20.43	Vertical
15600	34.42	38.30	10.62	35.36	47.98	68.20	-20.22	Vertical
10400	35.92	39.01	8.29	35.67	47.55	68.20	-20.65	Horizontal
15600	29.92	38.30	10.62	35.36	43.48	68.20	-24.72	Horizontal
10400	29.76	39.01	8.29	35.67	41.39	54.00	-12.61	Vertical
15600	28.39	38.30	10.62	35.36	41.95	54.00	-12.05	Vertical
10400	24.94	39.01	8.29	35.67	36.57	54.00	-17.43	Horizontal
15600	25.74	38.30	10.62	35.36	39.30	54.00	-14.70	Horizontal

802.11a					Test Frequency: 5240MHz			
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
10480	36.78	39.15	8.32	35.78	48.47	68.20	-19.73	Vertical
15720	33.24	38.00	10.72	35.37	46.59	68.20	-21.61	Vertical
10480	33.49	39.15	8.32	35.78	45.18	68.20	-23.02	Horizontal
15720	33.48	38.00	10.72	35.37	46.83	68.20	-21.37	Horizontal
10480	27.39	39.15	8.32	35.78	39.08	54.00	-14.92	Vertical
15720	25.28	38.00	10.72	35.37	38.63	54.00	-15.37	Vertical
10480	25.85	39.15	8.32	35.78	37.54	54.00	-16.46	Horizontal
15720	22.56	38.00	10.72	35.37	35.91	54.00	-18.09	Horizontal

802.11n(HT20)					Test Frequency: 5180MHz			
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
10360	36.40	39.20	8.34	35.82	48.12	68.20	-20.08	Vertical
15540	34.86	37.90	10.77	35.38	48.15	68.20	-20.05	Vertical
10360	36.16	39.20	8.34	35.82	47.88	68.20	-20.32	Horizontal
15540	30.20	37.90	10.77	35.38	43.49	68.20	-24.71	Horizontal
10360	28.46	39.20	8.34	35.82	40.18	54.00	-13.82	Vertical
15540	25.96	37.90	10.77	35.38	39.25	54.00	-14.75	Vertical
10360	24.46	39.20	8.34	35.82	36.18	54.00	-17.82	Horizontal
15540	24.41	37.90	10.77	35.38	37.70	54.00	-16.30	Horizontal

802.11n(HT20)					Test Frequency: 5200MHz			
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
10400	37.11	38.96	8.27	35.64	48.70	68.20	-19.50	Vertical
15600	32.47	38.40	10.57	35.35	46.09	68.20	-22.11	Vertical
10400	33.22	38.96	8.27	35.64	44.81	68.20	-23.39	Horizontal
15600	34.06	38.40	10.57	35.35	47.68	68.20	-20.52	Horizontal
10400	30.29	38.96	8.27	35.64	41.88	54.00	-12.12	Vertical
15600	28.50	38.40	10.57	35.35	42.12	54.00	-11.88	Vertical
10400	27.46	38.96	8.27	35.64	39.05	54.00	-14.95	Horizontal
15600	22.80	38.40	10.57	35.35	36.42	54.00	-17.58	Horizontal

802.11n(HT20)					Test Frequency: 5240MHz			
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
10480	33.78	39.15	8.32	35.78	45.47	68.20	-22.73	Vertical
15720	33.27	38.00	10.72	35.37	46.62	68.20	-21.58	Vertical
10480	32.94	39.15	8.32	35.78	44.63	68.20	-23.57	Horizontal
15720	29.20	38.00	10.72	35.37	42.55	68.20	-25.65	Horizontal
10480	28.32	39.15	8.32	35.78	40.01	54.00	-13.99	Vertical
15720	27.94	38.00	10.72	35.37	41.29	54.00	-12.71	Vertical
10480	24.61	39.15	8.32	35.78	36.30	54.00	-17.70	Horizontal
15720	25.80	38.00	10.72	35.37	39.15	54.00	-14.85	Horizontal

802.11n(HT40)					Test Frequency: 5190MHz			
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
10380	37.85	39.01	8.28	35.67	49.47	68.20	-18.73	Vertical
15570	33.06	38.30	10.60	35.36	46.60	68.20	-21.60	Vertical
10380	34.19	39.01	8.28	35.67	45.81	68.20	-22.39	Horizontal
15570	31.05	38.30	10.60	35.36	44.59	68.20	-23.61	Horizontal
10380	27.10	39.01	8.28	35.67	38.72	54.00	-15.28	Vertical
15570	26.43	38.30	10.60	35.36	39.97	54.00	-14.03	Vertical
10380	27.97	39.01	8.28	35.67	39.59	54.00	-14.41	Horizontal
15570	25.49	38.30	10.60	35.36	39.03	54.00	-14.97	Horizontal

802.11n(HT40)					Test Frequency: 5230MHz			
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
10460	36.36	39.11	8.31	35.75	48.03	68.20	-20.17	Vertical
15690	33.62	38.10	10.70	35.37	47.05	68.20	-21.15	Vertical
10460	33.21	39.11	8.31	35.75	44.88	68.20	-23.32	Horizontal
15690	31.01	38.10	10.70	35.37	44.44	68.20	-23.76	Horizontal
10460	30.24	39.11	8.31	35.75	41.91	54.00	-12.09	Vertical
15690	29.17	38.10	10.70	35.37	42.60	54.00	-11.40	Vertical
10460	25.30	39.11	8.31	35.75	36.97	54.00	-17.03	Horizontal
15690	27.46	38.10	10.70	35.37	40.89	54.00	-13.11	Horizontal

802.11ac(HT20)					Test Frequency: 5180MHz			
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
10360	34.04	38.96	8.27	35.64	45.63	68.20	-22.57	Vertical
15540	34.83	38.40	10.57	35.35	48.45	68.20	-19.75	Vertical
10360	32.66	38.96	8.27	35.64	44.25	68.20	-23.95	Horizontal
15540	33.06	38.40	10.57	35.35	46.68	68.20	-21.52	Horizontal
10360	26.92	38.96	8.27	35.64	38.51	54.00	-15.49	Vertical
15540	24.56	38.40	10.57	35.35	38.18	54.00	-15.82	Vertical
10360	25.02	38.96	8.27	35.64	36.61	54.00	-17.39	Horizontal
15540	22.35	38.40	10.57	35.35	35.97	54.00	-18.03	Horizontal

802.11ac(HT20)					Test Frequency: 5200MHz			
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
10400	37.21	39.01	8.29	35.67	48.84	68.20	-19.36	Vertical
15600	33.68	38.30	10.62	35.36	47.24	68.20	-20.96	Vertical
10400	33.55	39.01	8.29	35.67	45.18	68.20	-23.02	Horizontal
15600	34.08	38.30	10.62	35.36	47.64	68.20	-20.56	Horizontal
10400	29.61	39.01	8.29	35.67	41.24	54.00	-12.76	Vertical
15600	28.07	38.30	10.62	35.36	41.63	54.00	-12.37	Vertical
10400	24.46	39.01	8.29	35.67	36.09	54.00	-17.91	Horizontal
15600	26.87	38.30	10.62	35.36	40.43	54.00	-13.57	Horizontal

802.11ac(HT20)					Test Frequency: 5240MHz			
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
10480	32.57	39.15	8.32	35.78	44.26	68.20	-23.94	Vertical
15720	33.49	38.00	10.72	35.37	46.84	68.20	-21.36	Vertical
10480	34.28	39.15	8.32	35.78	45.97	68.20	-22.23	Horizontal
15720	34.09	38.00	10.72	35.37	47.44	68.20	-20.76	Horizontal
10480	27.46	39.15	8.32	35.78	39.15	54.00	-14.85	Vertical
15720	27.54	38.00	10.72	35.37	40.89	54.00	-13.11	Vertical
10480	23.68	39.15	8.32	35.78	35.37	54.00	-18.63	Horizontal
15720	25.01	38.00	10.72	35.37	38.36	54.00	-15.64	Horizontal

802.11ac(HT40)					Test Frequency: 5190MHz			
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
10380	33.48	39.01	8.28	35.67	45.10	68.20	-23.10	Vertical
15570	30.70	38.30	10.60	35.36	44.24	68.20	-23.96	Vertical
10380	32.40	39.01	8.28	35.67	44.02	68.20	-24.18	Horizontal
15570	32.07	38.30	10.60	35.36	45.61	68.20	-22.59	Horizontal
10380	26.62	39.01	8.28	35.67	38.24	54.00	-15.76	Vertical
15570	26.93	38.30	10.60	35.36	40.47	54.00	-13.53	Vertical
10380	28.12	39.01	8.28	35.67	39.74	54.00	-14.26	Horizontal
15570	26.57	38.30	10.60	35.36	40.11	54.00	-13.89	Horizontal

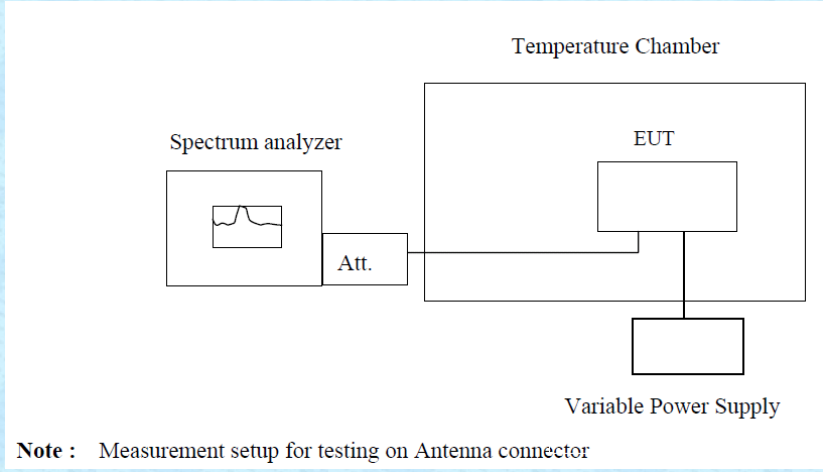
802.11ac(HT40)					Test Frequency: 5230MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460	33.97	39.11	8.31	35.75	45.64	68.20	-22.56	Vertical
15690	34.37	38.10	10.70	35.37	47.80	68.20	-20.40	Vertical
10460	31.76	39.11	8.31	35.75	43.43	68.20	-24.77	Horizontal
15690	32.91	38.10	10.70	35.37	46.34	68.20	-21.86	Horizontal
10460	28.94	39.11	8.31	35.75	40.61	54.00	-13.39	Vertical
15690	27.56	38.10	10.70	35.37	40.99	54.00	-13.01	Vertical
10460	23.97	39.11	8.31	35.75	35.64	54.00	-18.36	Horizontal
15690	23.84	38.10	10.70	35.37	37.27	54.00	-16.73	Horizontal

802.11ac(HT80)					Test Frequency: 5210MHz			
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
10420	36.57	39.06	8.29	35.71	48.21	68.20	-19.99	Vertical
15630	33.67	38.20	10.65	35.36	47.16	68.20	-21.04	Vertical
10420	34.79	39.06	8.29	35.71	46.43	68.20	-21.77	Horizontal
15630	33.70	38.20	10.65	35.36	47.19	68.20	-21.01	Horizontal
10420	29.35	39.06	8.29	35.71	40.99	54.00	-13.01	Vertical
15630	27.60	38.20	10.65	35.36	41.09	54.00	-12.91	Vertical
10420	25.22	39.06	8.29	35.71	36.86	54.00	-17.14	Horizontal
15630	26.89	38.20	10.65	35.36	40.38	54.00	-13.62	Horizontal

Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055,
Limit:	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:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data:

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	Carrier	5180	1	-5.69	<=20	PASS
		5190	1	-5.14	<=20	PASS
		5200	1	-8.16	<=20	PASS
		5210	1	-2.78	<=20	PASS
		5230	1	3.11	<=20	PASS
		5240	1	-8.63	<=20	PASS
		5260	1	-4.75	<=20	PASS
		5270	1	-3.35	<=20	PASS
		5280	1	-1.14	<=20	PASS
		5290	1	-1.84	<=20	PASS
		5310	1	-1.62	<=20	PASS
		5320	1	-2.91	<=20	PASS
		5500	1	-4.43	<=20	PASS
		5510	1	-5.15	<=20	PASS
		5530	1	-5.14	<=20	PASS
		5550	1	-2.91	<=20	PASS
		5580	1	-3.65	<=20	PASS
		5610	1	-3.83	<=20	PASS
		5670	1	-4.05	<=20	PASS
5700	1	-4.74	<=20	PASS		

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---END---