

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZ-R12-2200112

FCC REPORT

Applicant: Aratek Biometrics Co., Ltd.

Address of Applicant: 2F,T2-A Building,ShenZhen Software Park South Area, Hi-Tech

Park

Equipment Under Test (EUT)

Product Name: Automated Election Device

Model No.: VC33, BD1300

Trade mark: Aratek

FCC ID: 2AGUJ-VC331

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

Date of sample receipt: 12 Jan., 2022

Date of Test: 13 Jan., to 13 Feb., 2022

Date of report issued: 22 Feb., 2022

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	14 Feb., 2022	Original
01	22 Feb., 2022	add model

Tested by: Mike DU Date: 22 Feb., 2022

Test Engineer

Reviewed by:

Project Engineer

Date: 22 Feb., 2022

Page 2 of 31





Contents

		Page
1	COVER PAGE	1
2	VERSION	2
3	CONTENTS	3
4		
- 5		
J		_
	5.1 CLIENT INFORMATION	_
	5.2 GENERAL DESCRIPTION OF E.U. I	
	5.4 DESCRIPTION OF SUPPORT UNITS	
	5.5 MEASUREMENT UNCERTAINTY	
	5.6 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	
	5.7 RELATED SUBMITTAL(S) / GRANT (S)	
	5.8 LABORATORY FACILITY	
	5.9 LABORATORY LOCATION	
	5.10 TEST INSTRUMENTS LIST	9
6	TEST RESULTS AND MEASUREMENT DATA	10
_		_
	6.1 ANTENNA REQUIREMENT	
	6.3 CONDUCTED OUTPUT POWER	
	6.4 Occupy Bandwidth	
	6.5 Power Spectral Density	
	6.6 BAND EDGE	
	6.7 Spurious Emission	21
	6.7.1 Restricted Band	
	6.7.2 Unwanted Emissions out of the Restricted Bands	
	6.8 FREQUENCY STABILITY	28
7	TEST SETUP PHOTO	29
8	EUT CONSTRUCTIONAL DETAILS	31
•		





4 Test Summary

Test Item	Section in CFR 47	Test Data	Test Result
Antenna requirement	15.203 & 15.407 (a)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 5G Wi-Fi	Pass
Conducted Peak Output Power	15.407 (a) (1) (iv)	Appendix A – 5G Wi-Fi	Pass
26dB Occupied Bandwidth	15.407 (a) (12)	Appendix A – 5G Wi-Fi	Pass
6dB Emission Bandwidth	15.407(e)	Appendix A – 5G Wi-Fi	Pass
Power Spectral Density	15.407 (a) (1) (iv)	Appendix A – 5G Wi-Fi	Pass
Band Edge	15.407(b)	See Section 6.6	Pass
Spurious Emission	15.407 (b) & 15.205 & 15.209	See Section 6.7	Pass
Frequency Stability	15.407(g)	Appendix A – 5G Wi-Fi	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:

ANSI C63.10-2013

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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5 General Information

5.1 Client Information

Applicant:	Aratek Biometrics Co., Ltd.
Address:	2F,T2-A Building,ShenZhen Software Park South Area, Hi-Tech Park
Manufacturer:	Aratek Biometrics Co., Ltd.
Address:	2F,T2-A Building,ShenZhen Software Park South Area, Hi-Tech Park
Factory:	Aratek Biometrics Co., Ltd.
Address:	Block 4, 1st Industrial Park of Nan Gang, 1029# Song Bai Road of Bai Mang, Nan Shan District, Shenzhen 518055, China.

5.2 General Description of E.U.T.

Product Name:	Automated Election Device					
Model No.:	VC33, BD	VC33, BD1300				
Operation Frequency:	Band 1: 5	Band 1: 5150MHz-5250MHz				
Channel numbers:	Band 1:	Band 1: 802.11a/802.11n20: 4 802.11n40: 2 802.11ac: 1				
Channel separation:	20MHz:	802.11a/802.11n-HT20/802.11ac-HT20				
	40MHz:	40MHz: 802.11n-HT40/802.11ac-HT40				
	80MHz:	802.11ac-HT80				
Modulation technology (IEEE 802.11a):	BPSK, QI	PSK, 16-QAM, 64-QAM				
Modulation technology (IEEE 802.11n):	BPSK, QI	PSK, 16-QAM, 64-QAM				
Modulation technology (IEEE 802.11ac):	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM					
Data speed (IEEE 802.11a):	6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps					
Data speed	MCS0: 6.5Mbps, MCS1:13Mbps,MCS2:19.5Mbps, MCS3:26Mbps,					
(IEEE 802.11n20):	MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps					
Data speed	MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps,					
(IEEE 802.11n40):	MCS4:90	Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps				
Data speed (IEEE 802.11ac):	Up to 433.3Mbps					
Antenna Type:	Internal A	ntenna				
Antenna gain:	1.3dBi					
Power supply:	Recharge	eable Li-ion Battery DC11.1V-13Ah				
AC adapter:	Model: Al	<120WG-2400500W2				
		100-240V, 50/60Hz, 2.0A				
	Output: DC 24.0V, 5.0A					
Remark:	Model No.: VC331, BD1300 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.					
Test Sample Condition:	The test samples were provided in good working order with no visible defects.					

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	Operation Frequency each of channel					
		В	and 1			
802.11a/802	2.11n/ac-HT20	802.	11n/ac-HT40	802.1	1ac-HT80	
Channel	Frequency	Channel	Frequency	Channel Freque		
36	5180MHz	38	5190MHz	42	5210MHz	
40	5200MHz	46	5230MHz			
44	5220MHz					
48	5240MHz					

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:

Band 1						
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80		
Channel	Frequency	Channel	Frequency	Channel	Frequency	
Lowest	5180MHz	Lowest	5190MHz	Middle	5210MHz	
Middle	5200MHz	Highest	5230MHz			
Highest	5240MHz					

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Report No: JYTSZ-R12-2200112

5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar

Test mode:

Continuously transmitting mode | Keep the EUT in 100% duty cycle 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:

Per-scan all kind of data rate, and found the follow list were the worst case.

Data rate	
6 Mbps	
6.5 Mbps	
13.5 Mbps	
29.3 Mbps	

Remark: Jian Yan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

5.4 Description of Support Units

Manufacturer	Description	Description Model		FCC ID/DoC
The EUT has been tested as an independent unit.				

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

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Report No: JYTSZ-R12-2200112

5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.10 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022	
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022	
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022	
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022	
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022	
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022	
EMI Test Software	Tonscend	TS+		Version:3.0.0.1		

Conducted Emission:											
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date Cal. Due da (mm-dd-yy) (mm-dd-yy							
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022						
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022						
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022						
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022						
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022						
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022						
EMI Test Software	AUDIX	E3	Version: 6.110919b								

Conducted method:											
Test Equipment	Manufacturer	Manufacturer Model No. Ser		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)						
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022						
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022						
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022						
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022						
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022						
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A						
PDU	MWRF-test	XY-G10	N/A	N/A	N/A						
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023						
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022						
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0								

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Report No: JYTSZ-R12-2200112

6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part15 E Section 15.203 /407(a)

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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

E.U.T Antenna:

The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.3 dBi.





6.2 Conducted Emission

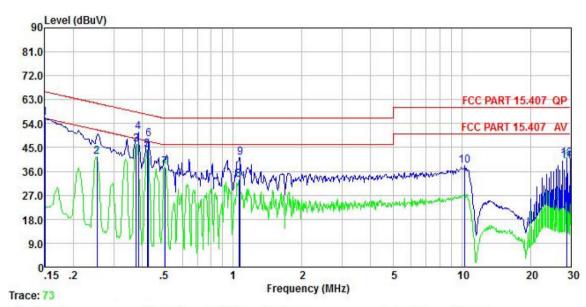
Test Requirement:	FCC Part15 C Section 15.2	FCC Part15 C Section 15.207						
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz						
Class / Severity:	Class B	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Frequency range (MHz) Limit (dBuV)						
	0.15-0.5	Quasi-peak 66 to 56*	0.15-0.5					
	0.5-5	56	0.5-5					
	5-30	60	5-30					
	* Decreases with the logarit	hm of the frequency.						
Test procedure	line impedance stabiliz 50ohm/50uH coupling 2. The peripheral devices LISN that provides a 50 termination. (Please rephotographs). 3. Both sides of A.C. line interference. In order to positions of equipment	LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).						
Test setup:	Referent 40cm 40cm 40cm E.U Test table/Insulation plan Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	EMI Receiver	— AC power					
Test Instruments:	Refer to section 5.10 for de	tails						
Test mode:	Refer to section 5.3 for deta	nils.						
Test results:	Passed							

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Measurement Data:

Product name:	Automated Election Device	Product model:	VC331
Test by:	Mike	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 19.2℃ Huni: 59%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu√	<u>dB</u>	<u>dB</u>	dBu₹	dBu∇	<u>dB</u>	
1	0.150	56.04	0.04	0.01	56.09	66.00	-9.91	QP
2	0.253	41.44	0.04	0.01	41.49	51.64	-10.15	Average
3	0.377	46.11	0.04	0.03	46.18	48.34	-2.16	Average
1 2 3 4 5 6 7 8 9	0.385	50.58	0.04	0.03	50.65	58.17	-7.52	QP
5	0.421	43.98	0.04	0.04	44.06	47.42	-3.36	Average
6	0.426	48.25	0.04	0.03	48.32	57.33	-9.01	QP
7	0.502	37.46	0.04	0.03	37.53	46.00	-8.47	Average
8	1.060	32.75	0.05	0.06	32.86	46.00	-13.14	Average
9	1.071	41.14	0.05	0.07	41.26	56.00	-14.74	QP
10	10.342	37.87	0.21	0.12	38.20	60.00	-21.80	QP
11	28.755	39.41	0.39	0.20	40.00	50.00	-10.00	Average
12	28.755	40.34	0.39	0.20	40.93	60.00	-19.07	QP

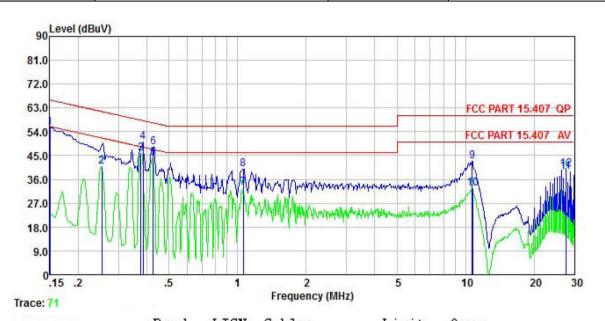
Notes

- 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 + Aux Factor + Cable Loss.

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Product name:	Automated Election Device	Product model:	VC331
Test by:	Mike	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 19.2℃ Huni: 59%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu√	<u>dB</u>	dB	dBu₹	dBu∜	<u>dB</u>	
1	0.150	55.48	0.05	0.01	55.54		-10.46	
2	0.253	40.95	0.04	0.01	41.00	51.64	-10.64	Average
3	0.377	45.84	0.04	0.03	45.91	48.34	-2.43	Average
4	0.385	49.99	0.04	0.03	50.06	58.17	-8.11	QP
2 3 4 5 6 7 8 9	0.426	44.16	0.04	0.03	44.23	47.33	-3.10	Average
6	0.426	48.00	0.04	0.03	48.07	57.33	-9.26	QP
7	1.060	32.82	0.05	0.06	32.93	46.00	-13.07	Average
8	1.060	39.83	0.05	0.06	39.94	56.00	-16.06	QP
9	10.676	42.47	0.20	0.12	42.79	60.00	-17.21	QP
10	10.733	32.15	0.20	0.12	32.47	50.00	-17.53	Average
11	27.562	38.17	0.38	0.19	38.74	50.00	-11.26	Average
12	27.562	39.27	0.38	0.19	39.84	60.00	-20.16	QP

Notes:

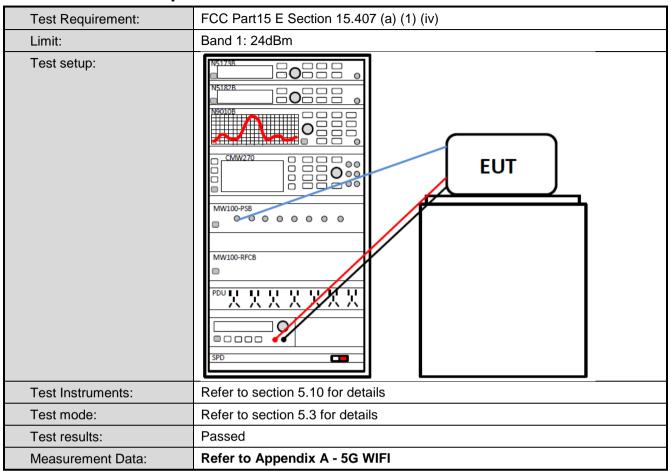
- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

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6.3 Conducted Output Power

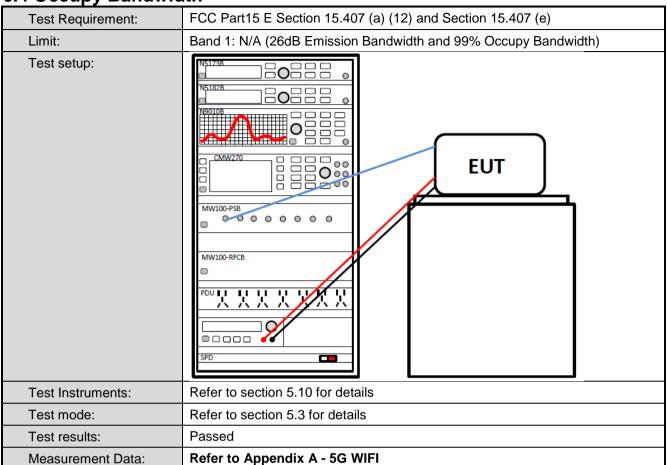


Page 14 of 31





6.4 Occupy Bandwidth



Page 15 of 31



6.5 Power Spectral Density

-	
Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv)
Limit:	Band 1: 11 dBm/MHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

Page 16 of 31





6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 1	15.407 (b)				
Receiver setup:	Detector	RBW	VBW	Remark		
	Quasi-peak	120kHz	300kHz	Quasi-peak Value		
	RMS	1MHz	3MHz	Average Value		
Limit:	Band	Limit (dBuV/n	n @3m)	Remark		
	Band 1	68.20		Peak Value		
	Danu 1	54.00		Average Value		
Test Procedure:	 Remark: Band 1 limit: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm. The EUT was placed on the top of a rotating table 0.8 meters above the ground a 3 meter camber. The table was rotated 360 degrees to determine the position 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 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 the the antenna was tuned to heights from 1 meter to 4 meters and the rotatable sturned 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 woul reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified an 					
	then reported in a dat		t or avorage in	ouriou do opocimou aria		
Test setup:		AE EUT 3m (Turntable) Ground Reference	Hom Antenna Antenna Plane Anguler Controller	Tower		
Test Instruments:	Refer to section 5.10 for	details				
Test mode:	Refer to section 5.3 for o	details				
Test results:	Passed					

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Measurement Data (worst case):

Band 1:

Band 1 – 802.11a											
Test channel: Lowest channel											
Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity					
35.23	15.49	50.72	68.20	17.48	Horizontal	Peak					
35.88	15.49	51.37	68.20	16.83	Vertical	Peak					
28.16	15.49	43.65	54.00	10.35	Horizontal	Average					
27.90	15.49	43.39	54.00	10.61	Vertical	Average					
	Te	st channel: High	est channel								
Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity					
35.47	16.44	51.91	68.20	16.29	Horizontal	Peak					
36.12	16.44	52.56	68.20	15.64	Vertical	Peak					
28.04	16.44	44.48	54.00	9.52	Horizontal	Average					
27.98	16.44	44.42	54.00	9.58	Vertical	Average					
	(dBuV/m) 35.23 35.88 28.16 27.90 Read Level (dBuV/m) 35.47 36.12 28.04	Read Level (dBuV/m) Factor (dB) 35.23 15.49 35.88 15.49 28.16 15.49 27.90 15.49 Te Read Level (dBuV/m) Factor (dB) 35.47 16.44 36.12 16.44 28.04 16.44	Test channel: Low Read Level (dBuV/m) 35.23 15.49 50.72 35.88 15.49 51.37 28.16 15.49 43.65 27.90 15.49 43.39 Test channel: High Read Level (dBuV/m) 35.47 16.44 51.91 36.12 16.44 52.56 28.04	Test channel: Lowest channel Read Level (dBuV/m) Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) 35.23 15.49 50.72 68.20 35.88 15.49 51.37 68.20 28.16 15.49 43.65 54.00 27.90 15.49 43.39 54.00 Test channel: Highest channel Read Level (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) (dBuV/m) 68.20 36.12 16.44 52.56 68.20 28.04 16.44 44.48 54.00	Test channel: Lowest channel Read Level (dBuV/m) Eactor (dB) Level (dBuV/m) Limit Line (dBuV/m) Margin (dBuV/m) 35.23 15.49 50.72 68.20 17.48 35.88 15.49 51.37 68.20 16.83 28.16 15.49 43.65 54.00 10.35 27.90 15.49 43.39 54.00 10.61 Test channel: Highest channel Read Level (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) Margin (dBuV/m) (dBuV/m) (dBuV/m) [dB] 35.47 16.44 51.91 68.20 16.29 36.12 16.44 52.56 68.20 15.64 28.04 16.44 44.48 54.00 9.52	Read Level (dBuV/m)					

	Band 1 – 802.11n(HT20)											
	Test channel: Lowest channel											
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity					
5150.00	35.15	15.49	50.64	68.20	17.56	Horizontal	Peak					
5150.00	35.76	15.49	51.25	68.20	16.95	Vertical	Peak					
5150.00	28.34	15.49	43.83	54.00	10.17	Horizontal	Average					
5150.00	27.87	15.49	43.36	54.00	10.64	Vertical	Average					
		Test char	nel: Highest	channel								
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity					
5350.00	35.51	16.44	51.95	68.20	16.25	Horizontal	Peak					
5350.00	35.62	16.44	52.06	68.20	16.14	Vertical	Peak					
5350.00	28.45	16.44	44.89	54.00	9.11	Horizontal	Average					
5350.00	28.20	16.44	44.64	54.00	9.36	Vertical	Average					

Remark:

Page 18 of 31

Final Level = Receiver Read level + Factor.

The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Project No.: JYTSZR2201027



		Band 1	I – 802.11n(H	T40)			
		Test char	nnel: Lowest o	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	35.35	15.49	50.84	68.20	17.36	Horizontal	Peak
5150.00	35.88	15.49	51.37	68.20	16.83	Vertical	Peak
5150.00	28.42	15.49	43.91	54.00	10.09	Horizontal	Average
5150.00	28.07	15.49	43.56	54.00	10.44	Vertical	Average
		Test char	nnel: Highest o	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.48	16.44	51.92	68.20	16.28	Horizontal	Peak
5350.00	35.63	16.44	52.07	68.20	16.13	Vertical	Peak
5350.00	28.39	16.44	44.83	54.00	9.17	Horizontal	Averag
5350.00	27.76	16.44	44.20	54.00	9.8	Vertical	Average

	Band 1 - 802.11ac(HT20)						
		Test char	nnel: Lowest o	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	35.11	15.49	50.60	68.20	17.6	Horizontal	Peak
5150.00	35.56	15.49	51.05	68.20	17.15	Vertical	Peak
5150.00	28.32	15.49	43.81	54.00	10.19	Horizontal	Average
5150.00	27.74	15.49	43.23	54.00	10.77	Vertical	Average
		Test chan	nel: Highest	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.46	16.44	51.90	68.20	16.3	Horizontal	Peak
5350.00	35.52	16.44	51.96	68.20	16.24	Vertical	Peak
5350.00	28.47	16.44	44.91	54.00	9.09	Horizontal	Average
5350.00	27.80	16.44	44.24	54.00	9.76	Vertical	Average

Remark:

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366 Page 19 of 31

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





	Band 1 – 802.11ac(HT40)						
	Test channel: Lowest channel						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	34.73	15.49	50.22	68.20	17.98	Horizontal	Peak
5150.00	35.62	15.49	51.11	68.20	17.09	Vertical	Peak
5150.00	28.35	15.49	43.84	54.00	10.16	Horizontal	Average
5150.00	27.71	15.49	43.20	54.00	10.8	Vertical	Average
		Test chan	nel: Highest o	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.40	16.44	51.84	68.20	16.36	Horizontal	Peak
5350.00	35.99	16.44	52.43	68.20	15.77	Vertical	Peak
5350.00	27.84	16.44	44.28	54.00	9.72	Horizontal	Average
5350.00	27.75	16.44	44.19	54.00	9.81	Vertical	Average

	Band 1 - 802.11ac(HT80)						
		Test char	nel: Lowest o	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	34.95	15.49	50.44	68.20	17.76	Horizontal	Peak
5150.00	35.78	15.49	51.27	68.20	16.93	Vertical	Peak
5150.00	28.70	15.49	44.19	54.00	9.81	Horizontal	Average
5150.00	27.94	15.49	43.43	54.00	10.57	Vertical	Average
		Test chan	nel: Highest	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.41	16.44	51.85	68.20	16.35	Horizontal	Peak
5350.00	35.52	16.44	51.96	68.20	16.24	Vertical	Peak
5350.00	28.39	16.44	44.83	54.00	9.17	Horizontal	Average
5350.00	27.84	16.44	44.28	54.00	9.72	Vertical	Average

Remark:

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^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Project No.: JYTSZR2201027



6.7 Spurious Emission

6.7.1 Restricted Band

6.7.1 Restricted Band							
Test Requirement:	FCC Part15 E Section 15.407(b)						
Test Frequency Range:	4.5 GHz to 5.15 GH	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz					
Test site:	Measurement Dista	nce: 3m					
Receiver setup:	Frequency	Detector	r	r RBW		BW	Remark
·	Above 1GHz	Peak		1MHz		ИHz	Peak Value
		RMS		1MHz		ИHz	Average Value
Limit:	Frequency	<u>L</u>	Limit	(dBuV/m @3	3m)		Remark
	Above 1GHz			74.00 54.00		^	Peak Value
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 				meters above the 0 degrees to -receiving neight antenna eters above the rength. Both set to make the to its worst case er to 4 meters egrees to find the tion and IB lower than the leak values of the did not have		
Test setup:		AE EUT (Turntable)		Horn Antient Street Plane Pro-	Anter	nna Tower	
Test Instruments:	Refer to section 5.1	0 for detail	ils				
Test mode:	Refer to section 5.3	for details	3				
Test results:	Passed(Refer to se	ction 6.6)					

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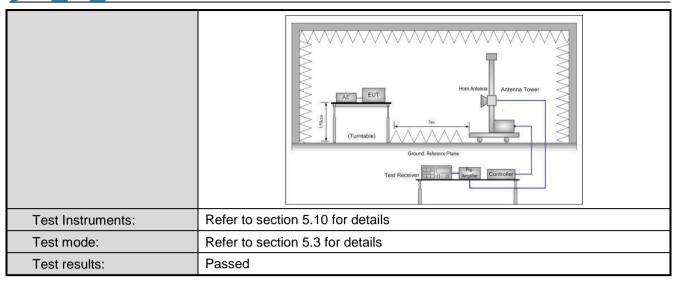


6.7.2 Unwanted Emissions out of the Restricted Bands

Test Requirement:	FCC Part15 C Sec	ction 15.209 a	nd 15.205				
Test Frequency Range:	30MHz to 40GHz	30MHz to 40GHz					
Test site:	Measurement Dist	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Remark		
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above 1G112	RMS	1MHz	3MHz	Average Value		
Limit:	Frequency		imit (dBuV/m @:	3m)	Remark		
	30MHz-88MH		40.0		Quasi-peak Value		
	88MHz-216MI		43.5		Quasi-peak Value		
	216MHz-960M		46.0		Quasi-peak Value		
	960MHz-1GH	1Z	54.0		Quasi-peak Value		
	Above 1GHz	<u> </u>	68.20 54.00		Peak Value Average Value		
	Remark:		34.00		Average value		
	Above 1GHz limit:						
	$E[dB\mu V/m] = EIRP[dB\mu V/m]$	dBm1 + 95.2=68	3.2 dBuV/m. for E	: :IPR[dBm]=	-27dBm.		
Test Procedure:			e top of a rotati				
					neter camber. The		
		ated 360 degr	ees to determir	ne the posi	tion of the highest		
	radiation.	0		:			
			away from the		ce-receiving e-height antenna		
	tower.	on was mount	ed on the top o	i a valiable	5-neight antenna		
		height is varie	d from one me	ter to four	meters above the		
			aximum value o				
	horizontal and	d vertical pola	rizations of the	antenna a	re set to make the		
	measurement						
					d to its worst case		
					eter to 4 meters and rees to find the		
	maximum rea		om o acgrees i	.o ooo acgi	ices to find the		
		•	as set to Peak	Detect Fur	nction and Specified		
	Bandwidth wi				·		
					0dB lower than the		
					peak values of the		
			nerwise tne em one by one usii		at did not have 10dB		
			ed and then rep				
Test setup:		iou do opcom	<u> </u>	ortou iii u	data on ooti		
Tost solup.	Below 1GHz						
		.		A 4	na Tower		
				Anteni	na Tower		
		1	ı ^				
	EUT	> 3m <	·····	Sear Ante			
	201						
		<u> </u>		RF Test Receiver	\neg		
		T					
	Tum O.8m Im A. A.						
	G	round Plane					
	Above 1GHz						

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Page 23 of 31

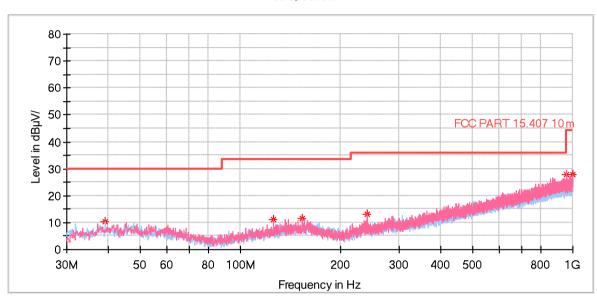


Measurement Data (worst case):

Below 1GHz

Product Name:	Automated Election Device	Product Model: VC331		
Test By:	Mike	Test mode: 5G Wi-Fi Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical &Horizontal	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 20.9℃ Huni: 59%	





Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	(cm)		(deg)	(dB/m)
39.118000	10.35	30.00	19.65	100.0	Н	18.0	-15.9
125.351000	11.05	33.50	22.45	100.0	V	351.0	-16.7
153.287000	11.70	33.50	21.80	100.0	V	34.0	-15.5
240.005000	13.13	36.00	22.87	100.0	V	98.0	-15.7
959.357000	27.95	36.00	8.05	100.0	٧	172.0	0.0
998.642000	27.92	44.00	16.08	100.0	V	343.0	0.6

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Above 1GHz: Band 1:

			Band 1 – 80	2 11a			
		Ta	est channel: Low				
Frequency	Read Level	16	Level	Limit Line	Margin	Τ	
(MHz)	(dBuV/m)	Factor (dB)	(dBuV/m)	(dBuV/m)	[dB]	Polarization	Trace
10360.00	52.37	5.48	57.85	68.20	10.35	Vertical	Peak
10360.00	52.35	5.48	57.83	68.20	10.37	Horizontal	Peak
10360.00	44.43	5.48	49.91	54.00	4.09	Vertical	Average
10360.00	45.08	5.48	50.56	54.00	3.44	Horizontal	Average
		Te	est channel: Mid	dle channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10400.00	52.45	5.31	57.76	68.20	10.44	Vertical	Peak
10400.00	52.31	5.31	57.62	68.20	10.58	Horizontal	Peak
10400.00	44.56	5.31	49.87	54.00	4.13	Vertical	Average
10400.00	45.47	5.31	50.78	54.00	3.22	Horizontal	Average
		Te	st channel: High	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10480.00	52.53	5.98	58.51	68.20	9.69	Vertical	Peak
10480.00	52.62	5.98	58.60	68.20	9.60	Horizontal	Peak
10480.00	44.57	5.98	50.55	54.00	3.45	Vertical	Average
10480.00	45.39	5.98	51.37	54.00	2.63	Horizontal	Average
			Band 1 - 802.1	1n(HT20)			
		Τe	est channel: Low	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10360.00	52.56	5.48	58.04	68.20	10.16	Vertical	Peak
10360.00	52.74	5.48	58.22	68.20	9.98	Horizontal	Peak
10360.00	44.35	5.48	49.83	54.00	4.17	Vertical	Average
10360.00	45.17	5.48	50.65	54.00	3.35	Horizontal	Average
		Te	est channel: Mid	dle channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10400.00	52.22	5.31	57.53	68.20	10.67	Vertical	Peak
10400.00	52.53	5.31	57.84	68.20	10.36	Horizontal	Peak
10400.00	44.38	5.31	49.69	54.00	4.31	Vertical	Average
10400.00	45.12	5.31	50.43	54.00	3.57	Horizontal	Average
		Te	st channel: High	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10480.00	52.30	5.98	58.28	68.20	9.92	Vertical	Peak
10480.00	52.38	5.98	58.36	68.20	9.84	Horizontal	Peak
10480.00	44.36	5.98	50.34	54.00	3.66	Vertical	Average
	45.47	5.98	51.45	54.00	2.55		Average

Remark:

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^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





Band 1 – 802.11n(HT40)							
			st channel: Low				
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10380.00	52.46	5.39	57.85	68.20	10.35	Vertical	Peak
10380.00	52.64	5.39	58.03	68.20	10.17	Horizontal	Peak
10380.00	44.78	5.39	50.17	54.00	3.83	Vertical	Average
10380.00	44.89	5.39	50.28	54.00	3.72	Horizontal	Average
		Te	st channel: High	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10460.00	52.63	5.81	58.44	68.20	9.76	Vertical	Peak
10460.00	52.52	5.81	58.33	68.20	9.87	Horizontal	Peak
10460.00	44.67	5.81	50.48	54.00	3.52	Vertical	Average
10460.00	45.41	5.81	51.22	54.00	2.78	Horizontal	Average
	Band 1 – 802.11ac(HT20)						
		Те	st channel: Low	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10360.00	52.24	5.48	57.72	68.20	10.48	Vertical	Peak
10360.00	52.36	5.48	57.84	68.20	10.36	Horizontal	Peak
10360.00	44.63	5.48	50.11	54.00	3.89	Vertical	Average
10360.00	45.28	5.48	50.76	54.00	3.24	Horizontal	Average
		Te	est channel: Mide	dle channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10400.00	52.15	5.31	57.46	68.20	10.74	Vertical	Peak
10400.00	52.40	5.31	57.71	68.20	10.49	Horizontal	Peak
10400.00	44.71	5.31	50.02	54.00	3.98	Vertical	Average
10400.00	44.82	5.31	50.13	54.00	3.87	Horizontal	Average
		Te	st channel: High	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10480.00	52.47	5.98	58.45	68.20	9.75	Vertical	Peak
10480.00	52.69	5.98	58.67	68.20	9.53	Horizontal	Peak
10480.00	44.25	5.98	50.23	54.00	3.77	Vertical	Average
10480.00	45.44	5.98	51.42	54.00	2.58	Horizontal	Average

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^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



	Band 1 - 802.11ac(HT40)						
	Test channel: Lowest channel						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10380.00	52.46	5.39	57.85	68.20	10.35	Vertical	Peak
10380.00	52.62	5.39	58.01	68.20	10.19	Horizontal	Peak
10380.00	44.33	5.39	49.72	54.00	4.28	Vertical	Average
10380.00	45.29	5.39	50.68	54.00	3.32	Horizontal	Average
		Te	est channel: High	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10460.00	52.25	5.81	58.06	68.20	10.14	Vertical	Peak
10460.00	52.71	5.81	58.52	68.20	9.68	Horizontal	Peak
10460.00	44.66	5.81	50.47	54.00	3.53	Vertical	Average
10460.00	44.90	5.81	50.71	54.00	3.29	Horizontal	Average
			Band 1 – 802.11	ac(HT80)			
		Te	est channel: Mid	dle channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10420.00	52.58	5.48	58.06	68.20	10.14	Vertical	Peak
10420.00	52.62	5.48	58.10	68.20	10.10	Horizontal	Peak
10420.00	44.57	5.48	50.05	54.00	3.95	Vertical	Average
10420.00	45.47	5.48	50.95	54.00	3.05	Horizontal	Average

Remark:

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^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers 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 in the user's manual.
Test setup:	MW100-PSB MW100-PSB PDU T Temperature Humidity Chamber
Test procedure:	 The EUT is installed in an environment test chamber with external power source. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. A sufficient stabilization period at each temperature is used prior to each frequency measurement. When temperature is stabled, measure the frequency stability. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to Appendix A - 5G WIFI

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