

FCC Test Report

Report No.: AGC14499230501FE05

FCC ID : 2APPZ-W610W

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Portable Wi-Fi Phone

BRAND NAME : LINXVIL

MODEL NAME : W610W

APPLICANT : Fanvil Technology Co., Ltd.

DATE OF ISSUE : Jun. 14, 2023

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15.247

REPORT VERSION: V1.0

Attestation of Global Configuration (Shenzhen) Co., Ltd



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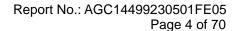
REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	Jun. 14, 2023	Valid	Initial Release	



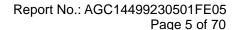
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1. VERIFICATION OF CONFORMITY

Applicant	Fanvil Technology Co., Ltd.		
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China		
manufacturer	Fanvil Technology Co., Ltd.		
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China		
Factory	Fanvil Technology Co., Ltd.		
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China		
Product Designation	Portable Wi-Fi Phone		
Brand Name	LINXVIL		
Test Model	W610W		
Date of receipt of test item	May 30. 2023		
Date of test	May 30. 2023 to Jun. 14, 2023		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BGN/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By	Alan Duan	
	Alan Duan (Project Engineer)	Jun. 14, 2023
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Jun. 14, 2023
Approved By	Max Zhang	
	Max Zhang (Authorized Officer)	Jun. 14, 2023



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Portable Wi-Fi Phone". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Equipment Type	WLAN 2.4G			
Frequency Band	2400MHz ~ 2483.5MHz			
Operation Frequency	2412MHz ~ 2462MHz			
Output Power (Average)	IEEE 802.11b:13.47dBm; IEEE 802.11g:12.55dBm;			
Output Fower (Average)	IEEE 802.11n(HT20):12.06dBm			
Output Power (Peak)	IEEE 802.11b:16.05dBm; IEEE 802.11g:20.12dBm;			
Output I Ower (I eak)	IEEE 802.11n(HT20):19.70dBm			
Modulation	802.11b:DQPSK, DBPSK, CCK			
Woddiation	802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK			
	802.11b: 1/2/5.5/11Mbps			
Data Rate	802.11g: 6/9/12/18/24/36/48/54Mbps			
	802.11n: up to 300Mbps			
Number of channels	11			
Hardware Version	V1.0			
Software Version	Beta_1.0.4			
Antenna Designation	Internal antenna (Comply with requirements of the FCC part 15.203)			
Antenna Gain	4.2dBi			
Power Supply	DC 3.8V by battery or DC 5V by adapter			



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2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11. For 40MHZ bandwidth system use Channel 3 to Channel 9



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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS NDBPS		NDBPS		Da rate(N 800r	<u> </u>
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2APPZ-W610W** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

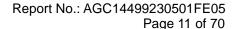


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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$





4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel transmitting (TX)
2	Middle channel transmitting (TX)
3	High channel transmitting (TX)
Note:	

Transmit by 802.11b with Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

The test channel for 20MHZ bandwidth system is channel 1, 6 and 11.

The test channel for 40MHZ bandwidth system is channel 3, 6 and 9.

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

🕞 Serial-COM2 - SecureCRT П × 🖏 🖫 🖵 🚳 🔏 🕒 🖺 🥌 🥌 🛊 Serial-COM2 4 b wl down wl down wl band b wl mpc 0 wl nrate -r 11 wil mpc 0 wil nrate -r 11 wil rateset 11b wil country ALL wil up wil channel 13 wil scansuppress 1 wil txpwr1 -1 wil phy_forcecal 1 wil pkteng_start 00:11:22:33:44:55 tx 100 1000 0 /bin # wil band b /bin # wil mate -r 11 /bin # wil rateset 11b /bin # wil country ALL /bin # wil up /bin # wil country ALL /bin # wil your country ALL /bin # wil phy_forcecal 1 /bin # wil pkteng_start 00:11:22:33:44:55 tx 100 /bin # Default ** @ aic channel 13 scansuppress 1 txpwrl -1 phy_forcecal 1 pkteng_start 00:11:22:33:44:55 tx 100 1000 0 Default 🔻 🥥 aic

Software Setting

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Serial: COM2, 115200 24, 8 24行, 80列 VT100

大写 数字

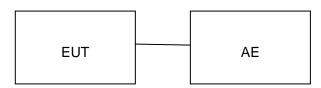


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:

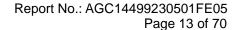


5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Portable Wi-Fi Phone	W610W	2APPZ-W610W	EUT
2	Earphone	N/A	0.6m unshielded	AE
3	Adapter	AS1201A-0502000USL	Input: 100-240V, 50/60Hz, 0.35A Output: 2000mA	AE

5.3. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
4	§15.247 (d)	Conducted Spurious Emission	Pass
5	§15.209	Radiated Emission& Band Edge	Pass
6	§15.207	AC Power Line Conducted Emission	Pass





6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Aug. 04, 2022	Aug. 03, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

TEST EXCIT MENT OF NADIATED EMISSION TEST					
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2023	Apr. 22, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-49 4	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



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7. OUTPUT POWER

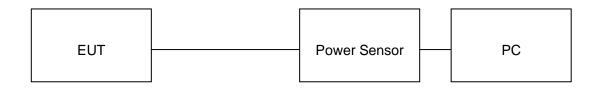
7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

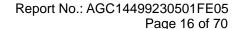




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7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
	2412	13.47	16.05	≤30	Pass
802.11b	2437	13.15	15.96	≤30	Pass
	2462	13.12	15.92	≤30	Pass
802.11g	2412	12.55	20.12	≤30	Pass
	2437	12.17	19.87	≤30	Pass
	2462	12.44	19.97	≤30	Pass
802.11n20	2412	12.06	19.70	≤30	Pass
	2437	11.80	19.39	≤30	Pass
	2462	11.96	19.63	≤30	Pass





8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

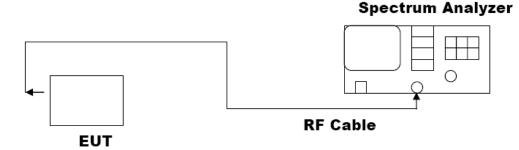
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





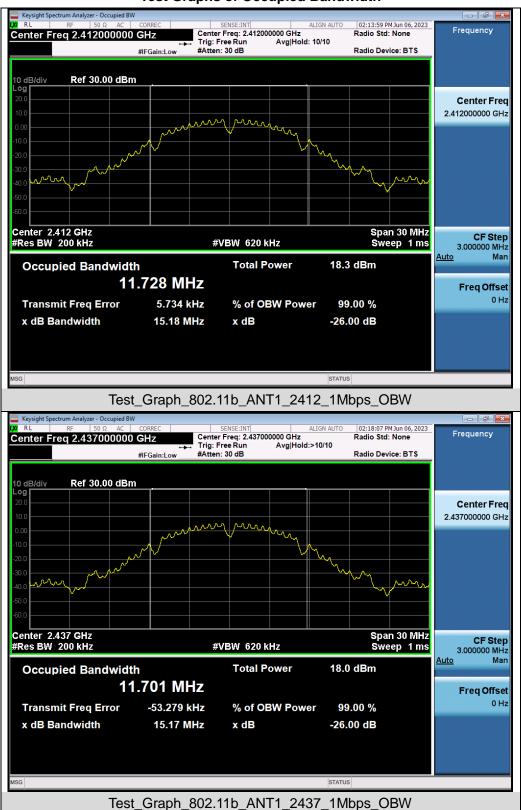
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8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	-6dB Limits (MHz)	Pass or Fail
	2412	11.728	7.083	≥0.5	Pass
802.11b	2437	11.701	7.552	≥0.5	Pass
	2462	11.688	8.021	≥0.5	Pass
	2412	16.412	15.18	≥0.5	Pass
802.11g	2437	16.414	15.16	≥0.5	Pass
	2462	16.320	15.17	≥0.5	Pass
	2412	17.584	15.18	≥0.5	Pass
802.11n20	2437	17.580	15.47	≥0.5	Pass
	2462	17.484	15.18	≥0.5	Pass

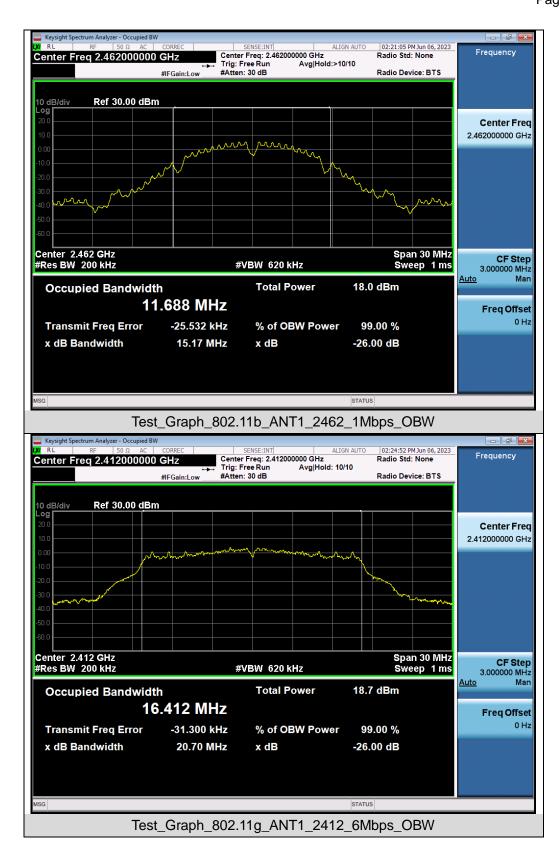


Test Graphs of Occupied Bandwidth

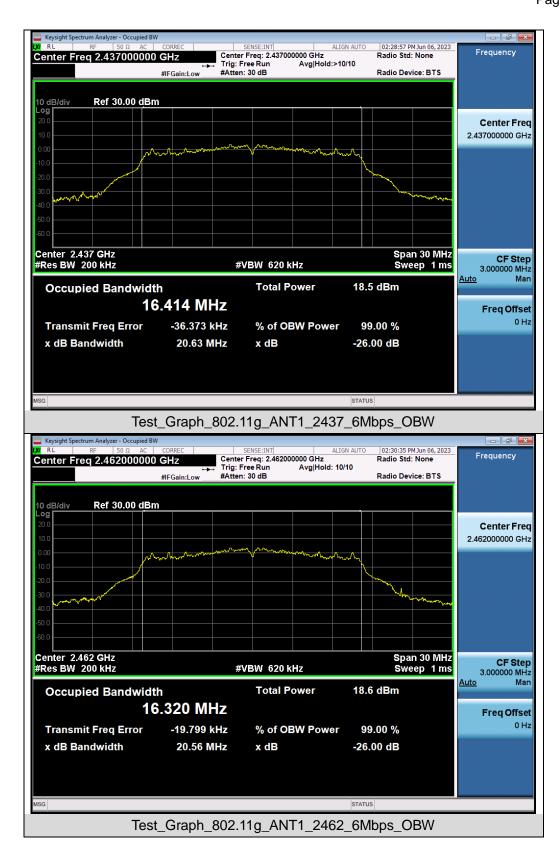


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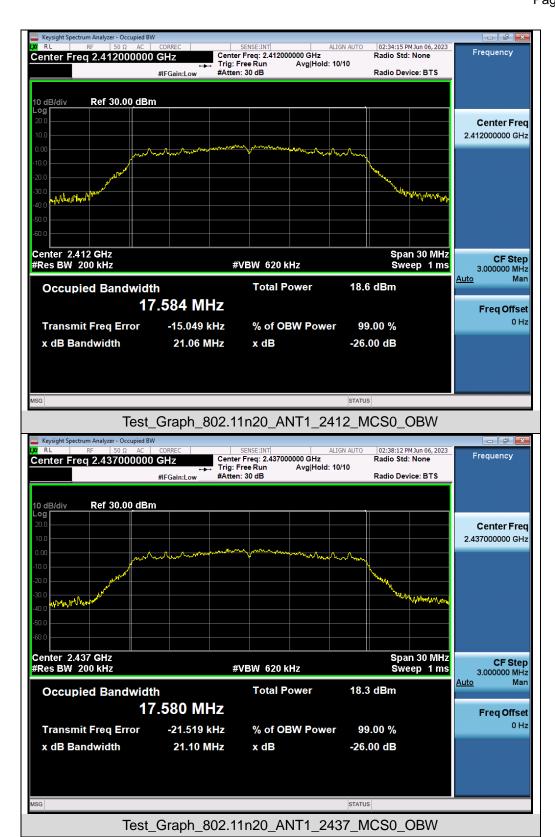




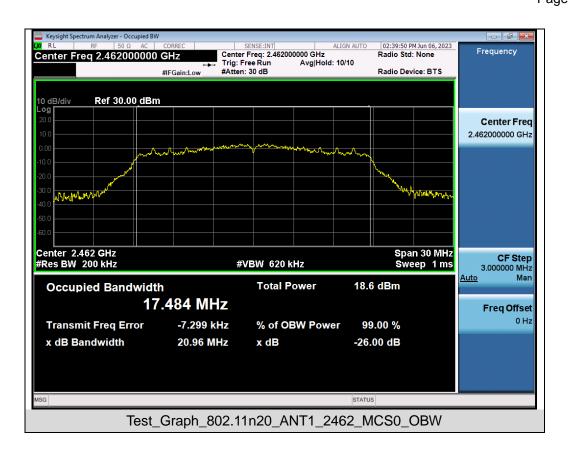














Test Graphs of DTS Bandwidth

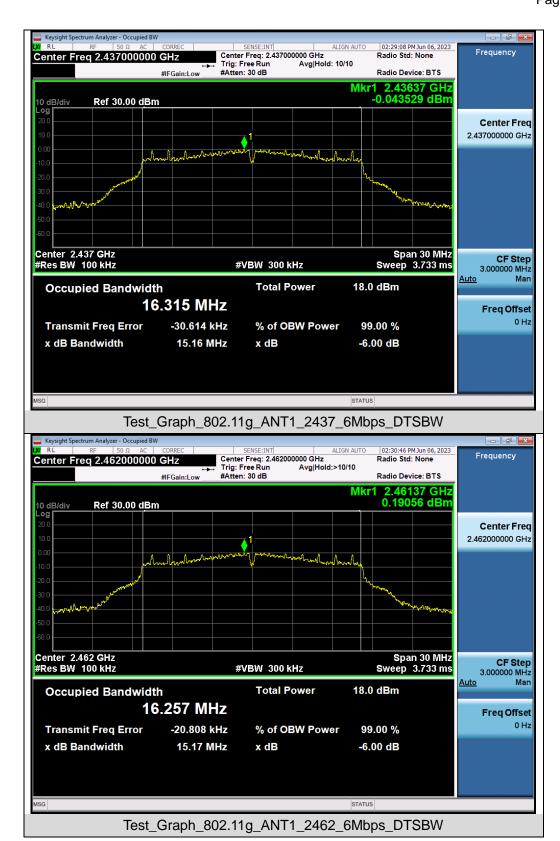


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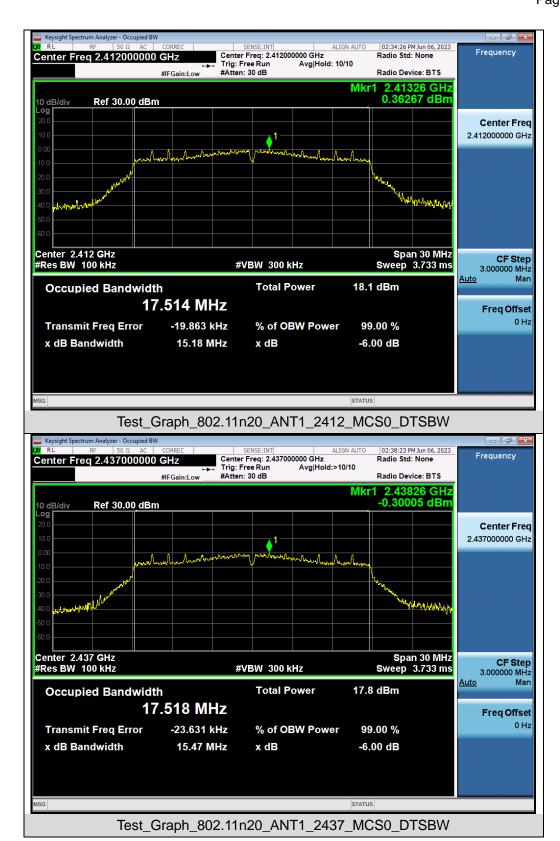




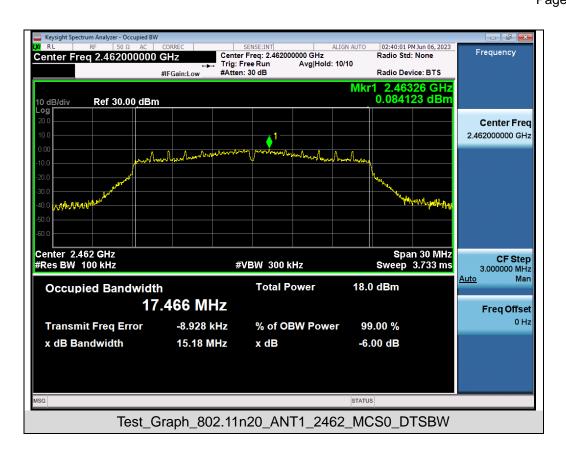














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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

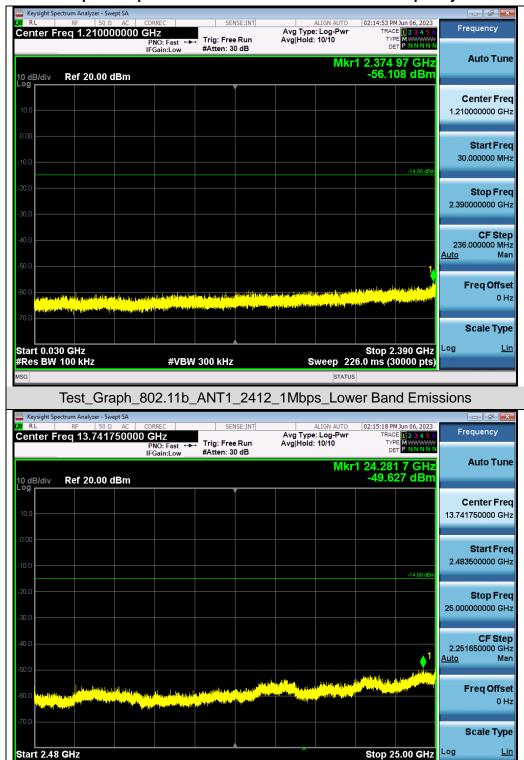
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
Applicable Limite	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit				
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS			
intentional radiator is operating, the radio frequency	Channel				
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS			

Note: The limits reference level is according to the test plot of -6dB bandwidth.



Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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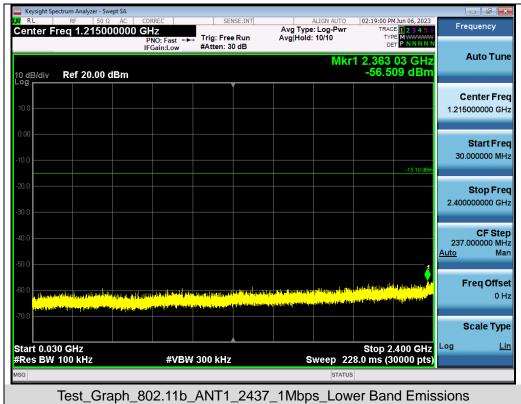
Test_Graph_802.11b_ANT1_2412_1Mbps_Higher Band Emissions

Sweep 2.152 s (30000 pts)

#VBW 300 kHz

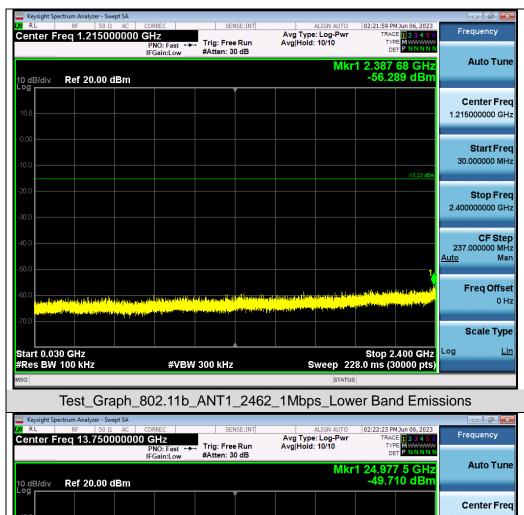
#Res BW 100 kHz

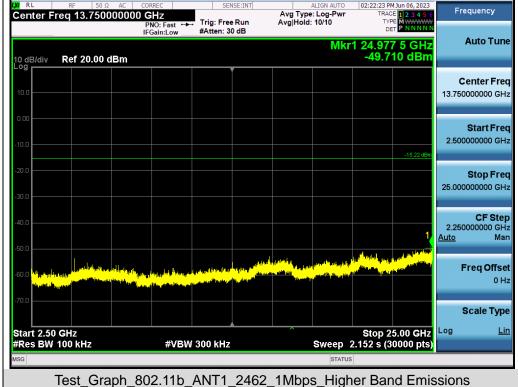




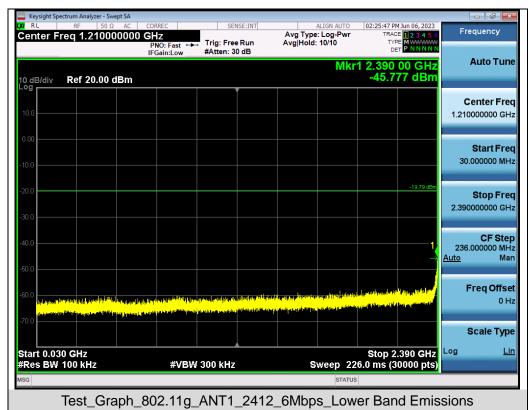






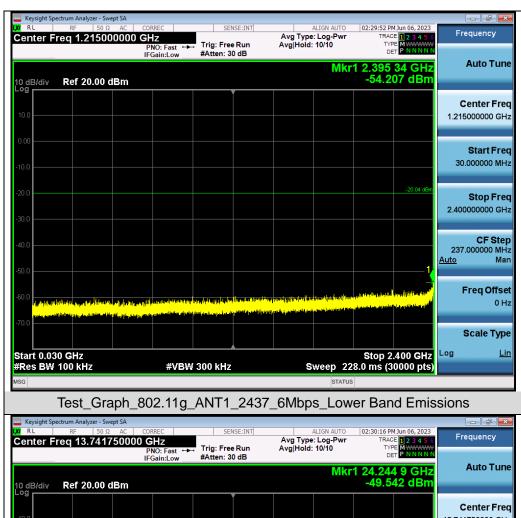






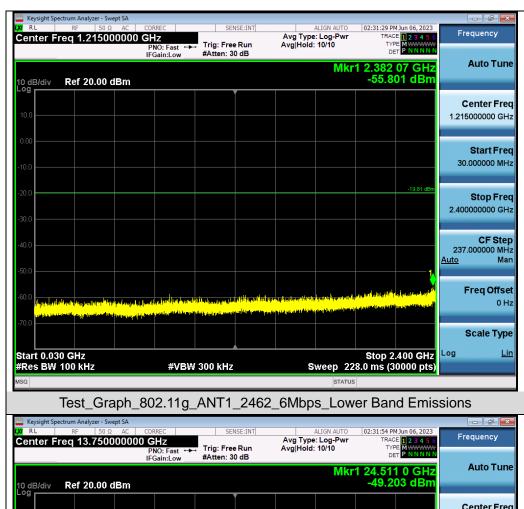






13.741750000 GHz Start Fred 2.483500000 GHz 25.000000000 GHz **CF Step** 2.251650000 GHz <u>Auto</u> Mar Freq Offset 0 Hz Scale Type Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) Log #VBW 300 kHz Test_Graph_802.11g_ANT1_2437_6Mbps_Higher Band Emissions





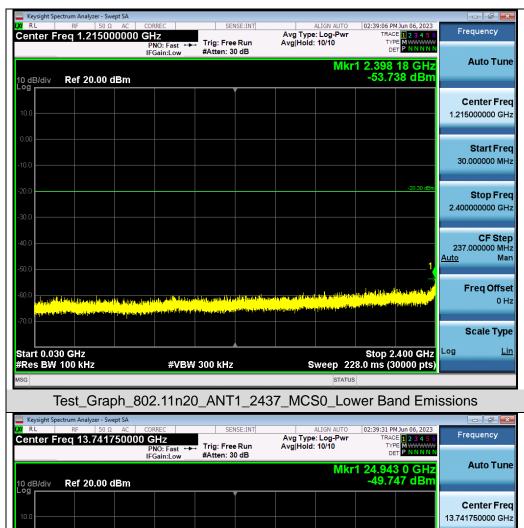














CF Step 2.250000000 GHz

> Freq Offset 0 Hz

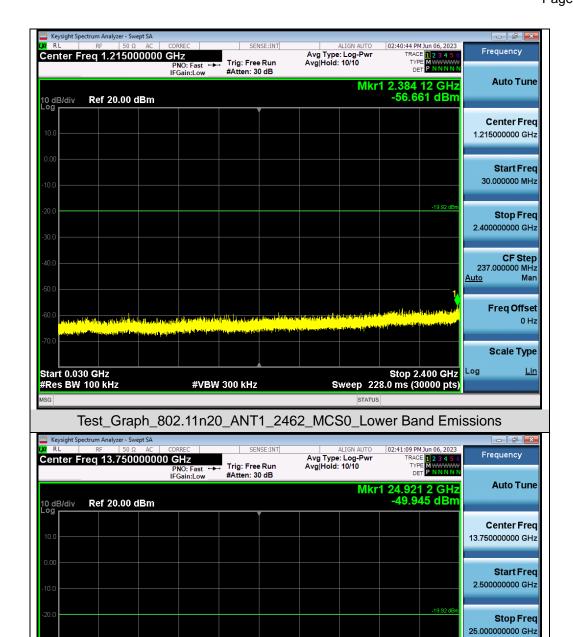
Scale Type

<u>Auto</u>

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz



Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions





Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

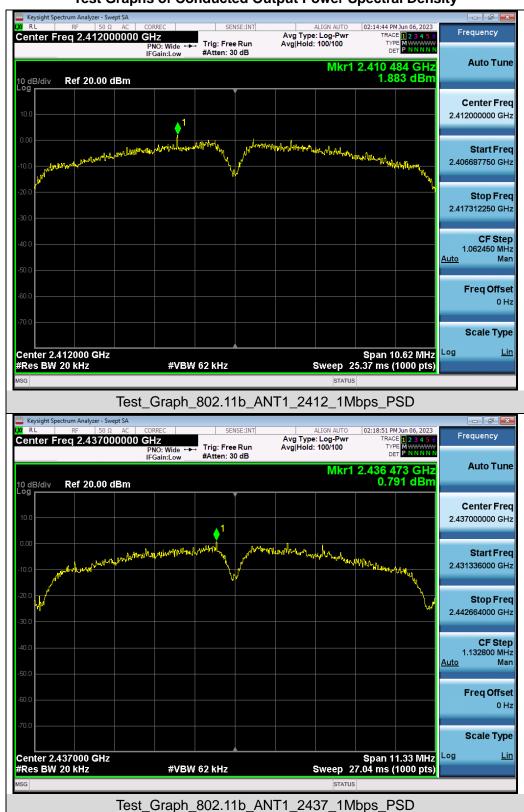
10.4 LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power Spectral Density								
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail				
	2412	1.883	-6.356	≤8	Pass				
802.11b	2437	0.791	-7.448	≤8	Pass				
	2462	0.197	-8.042	≤8	Pass				
	2412	-3.109	-11.348	≤8	Pass				
802.11g	2437	-3.514	-11.753	≤8	Pass				
	2462	-3.017	-11.256	≤8	Pass				
	2412	-2.669	-10.908	≤8	Pass				
802.11n20	2437	-3.638	-11.877	≤8	Pass				
	2462	-2.197	-10.436	≤8	Pass				

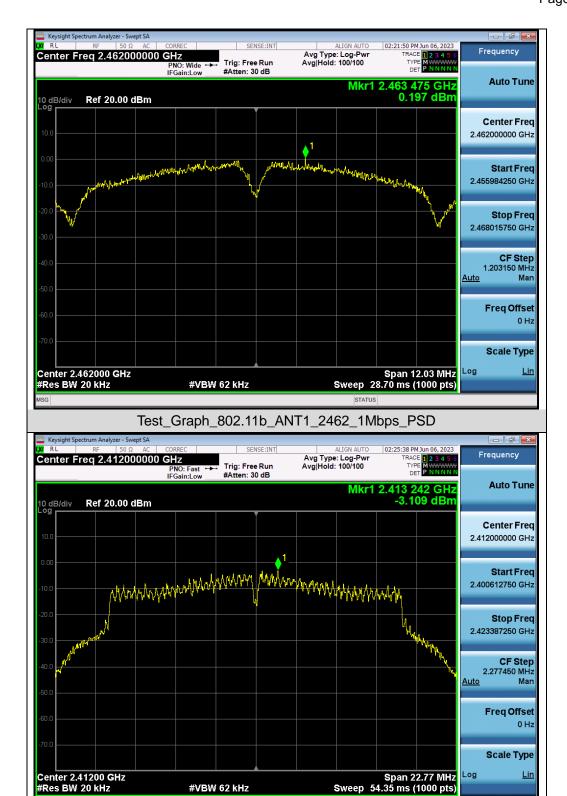
Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10*log(20/3).



Test Graphs of Conducted Output Power Spectral Density





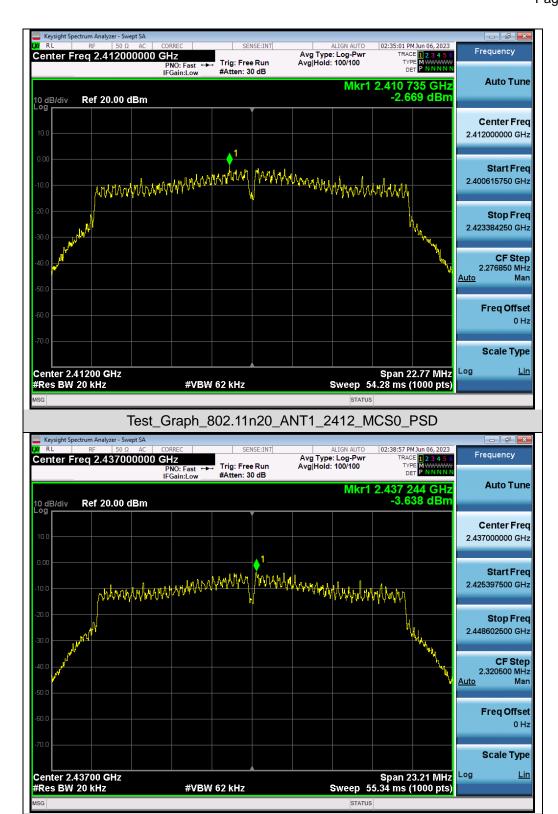


Test_Graph_802.11g_ANT1_2412_6Mbps_PSD



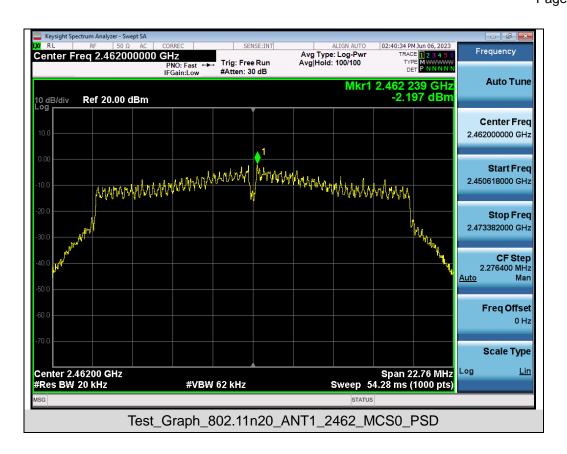






Test_Graph_802.11n20_ANT1_2437_MCS0_PSD







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11. RADIATED EMISSION

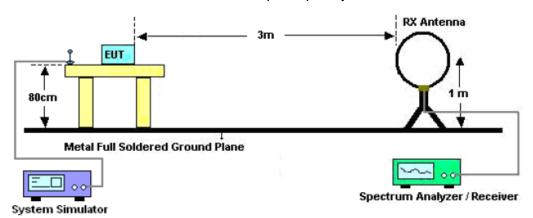
11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

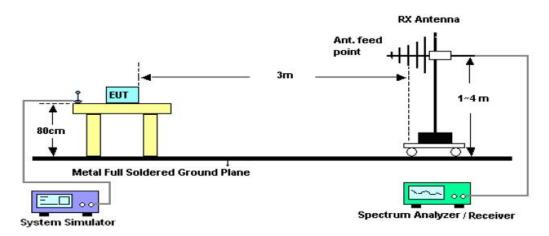


11.2. TEST SETUP

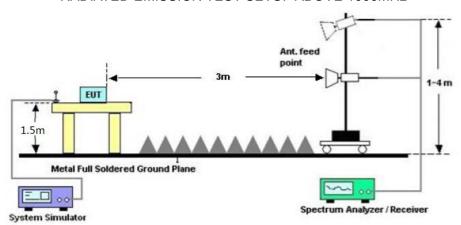
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (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

Note: All modes were tested for restricted band radiated emission.

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

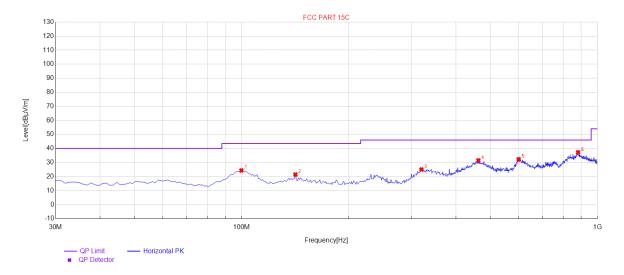
Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



Radiated emission from 30MHz to 1000MHz

EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

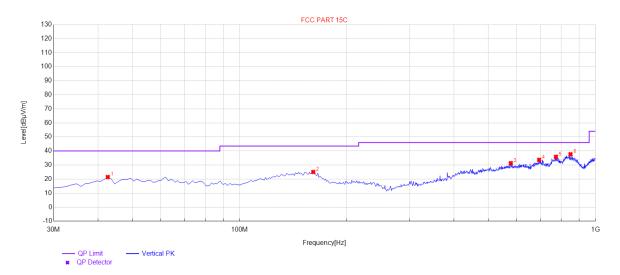


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	99.84	24.36	21.38	43.50	19.14	100	240	Horizontal
2	141.55	21.48	14.80	43.50	22.02	100	70	Horizontal
3	320.03	25.12	21.33	46.00	20.88	100	340	Horizontal
4	462.62	31.52	27.40	46.00	14.48	100	130	Horizontal
5	600.36	32.40	28.71	46.00	13.60	100	330	Horizontal
6	881.66	37.32	33.14	46.00	8.68	100	310	Horizontal

RESULT: PASS



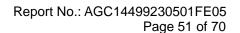
EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.61	21.46	12.15	40.00	18.54	100	140	Vertical
2	160.95	25.05	21.61	43.50	18.45	100	0	Vertical
3	578.05	31.31	25.62	46.00	14.69	100	40	Vertical
4	694.45	33.69	28.74	46.00	12.31	100	270	Vertical
5	773.99	35.85	30.81	46.00	10.15	100	0	Vertical
6	850.62	37.66	32.25	46.00	8.34	100	10	Vertical

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.





Radiated emission above 1GHz

EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4824.000	55.26	0.08	55.34	74	-18.66	peak	
4824.000	46.29	0.08	46.37	54	-7.63	AVG	
7236.000	52.43	2.21	54.64	74	-19.36	peak	
7236.000	41.38	2.21	43.59	54	-10.41	AVG	
Remark:							
Factor = Anten	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4824.000	56.39	0.08	56.47	74	-17.53	peak	
4824.000	46.28	0.08	46.36	54	-7.64	AVG	
7236.000	52.14	2.21	54.35	74	-19.65	peak	
7236.000	41.38	2.21	43.59	54	-10.41	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



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EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	56.97	0.14	57.11	74	-16.89	peak
4874.000	46.28	0.14	46.42	54	-7.58	AVG
7311.000	51.27	2.36	53.63	74	-20.37	peak
7311.000	42.15	2.36	44.51	54	-9.49	AVG
Remark:						
actor = Anter	actor = Antenna Factor + Cable Loss – Pre-amplifier.					

EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	56.34	0.14	56.48	74	-17.52	peak
4874.000	46.28	0.14	46.42	54	-7.58	AVG
7311.000	52.18	2.36	54.54	74	-19.46	peak
7311.000	41.25	2.36	43.61	54	-10.39	AVG
Remark:	Remark:					
Factor = Anter	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					



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EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	56.34	0.22	56.56	74	-17.44	peak
4924.000	45.28	0.22	45.5	54	-8.5	AVG
7386.000	51.24	2.64	53.88	74	-20.12	peak
7386.000	42.18	2.64	44.82	54	-9.18	AVG
Remark:						
Factor = Anten	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	56.34	0.22	56.56	74	-17.44	peak
4924.000	46.28	0.22	46.5	54	-7.5	AVG
7386.000	52.14	2.64	54.78	74	-19.22	peak
7386.000	42.19	2.64	44.83	54	-9.17	AVG
Remark:						
actor = Antenna Factor + Cable Loss – Pre-amplifier						

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.



Test result for band edge emission at restricted bands

EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage Normal Voltage	
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



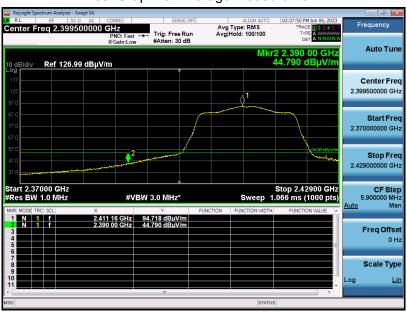


EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Portable Wi-Fi Phone	Model Name	W610W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage Normal Voltage	
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





12. LINE CONDUCTED EMISSION TEST

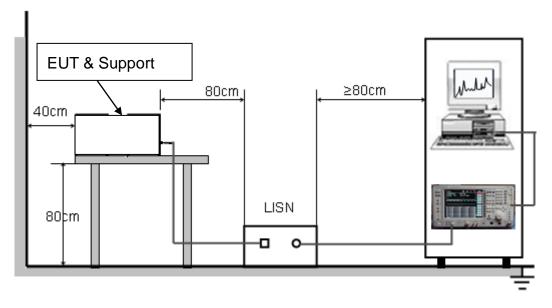
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francisco	Maximum RF Line Voltage				
Frequency	Q.P (dBµV)	Average (dBμV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

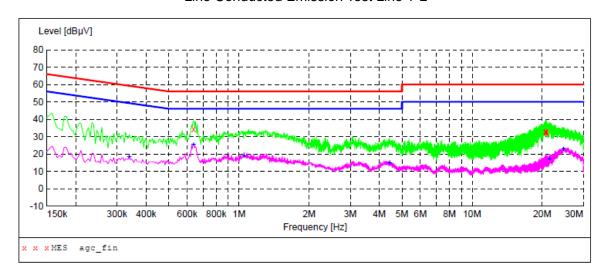
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2023/6/5 Frequen	ncy Let	vel Transo BμV dE		Margin dB	Detector	Line
0.6380	000 34.	.50 4.3	3 56	21.5	QP	L1
20.6140	000 32.	.60 5.9	60	27.4	QP	L1
20.7140	000 32.	.80 5.9	60	27.2	QP	L1
20.7420	000 32.	.80 5.9	60	27.2	QP	L1
20.8460	000 32.	.40 5.9	60	27.6	QP	L1
20.9260	000 31.	.90 6.0	60	28.1	OP	L1

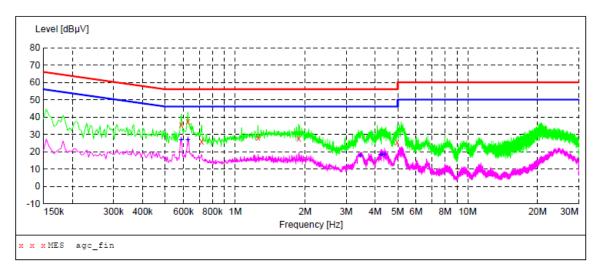
MEASUREMENT RESULT: "agc_fin2"

2023/6/5 22:00

.020/0/0 22:00						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.338000	18.10	4.3	49	31.2	AV	L1
0.638000	25.20	4.3	46	20.8	AV	L1
1.050000	18.60	4.3	46	27.4	AV	L1
4.438000	14.60	4.7	46	31.4	AV	L1
21.494000	16.90	6.1	50	33.1	AV	L1
24.618000	22.80	6.8	50	27.2	AV	L1



Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2023/6/5 22:03 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.586000	35.70	4.2	56	20.3	QP	N
0.626000	37.60	4.2	56	18.4	QP	N
0.718000	25.80	4.3	56	30.2	QP	N
1.254000	27.90	4.4	56	28.1	QP	N
1.878000	27.60	4.6	56	28.4	QP	N
4.982000	25.30	4.7	56	30.7	QP	N

MEASUREMENT RESULT: "agc fin2"

22:03					
cy Level Hz dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
26.50	4.2	46	19.5	AV	N
26.50	4.2	46	19.5	AV	N
18.00	4.7	46	28.0	AV	N
00 18.10	4.7	46	27.9	AV	N
18.30	4.7	46	27.7	AV	N
00 18.10	4.7	46	27.9	AV	N
	Hz dBμV 00 26.50 00 26.50 00 18.00 00 18.10 00 18.30	Ey Level Transd dB	Ey Level Transd Limit Hz dBμV dB dBμV 00 26.50 4.2 46 00 26.50 4.2 46 00 18.00 4.7 46 00 18.10 4.7 46 00 18.30 4.7 46	Ey Level dBμV Transd dB dBμV Limit dB dBμV Margin dB 00 26.50 4.2 46 19.5 00 26.50 4.2 46 19.5 00 18.00 4.7 46 28.0 00 18.10 4.7 46 27.9 00 18.30 4.7 46 27.7	Ey Level dBμV Transd dB dBμV Limit dB dBμV Margin dB Detector dB 00 26.50 4.2 46 19.5 AV 00 26.50 4.2 46 19.5 AV 00 18.00 4.7 46 28.0 AV 00 18.10 4.7 46 27.9 AV 00 18.30 4.7 46 27.7 AV

RESULT: PASS

Note: All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC14499230501AP02

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC14499230501AP03

----END OF REPORT----



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