





FCC Test Report

Report No.: AGC14499240502FR02

FCC ID : 2BCUQ-W601W

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Portable Wi-Fi Phone

BRAND NAME : LINXVIL

MODEL NAME : W601W

APPLICANT: Fanvil Link Technology Co., LTD

DATE OF ISSUE : Jul. 04, 2024

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION: V1.0

Attestation Of Global Conclude (Shenzhen) Co., Ltd



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Report Revise Record

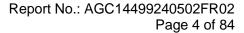
Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	Jul. 04, 2024	Valid	Initial Release	



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10.1 Provisions Applicable. Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspectic Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test represented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test re	sults

Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.





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1. General Information

Applicant	Fanvil Link Technology Co., LTD
Address	A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China
Manufacturer	Fanvil Link Technology Co., LTD
Address	A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China
Product Designation	Portable Wi-Fi Phone
Brand Name	LINXVIL
Test Model	W601W
Date of receipt of test item	May 24, 2024
Date of Test	May 24, 2024~Jun. 27, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-BLE-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	Bibo Hang	
	Bibo Zhang (Project Engineer)	Jul. 04, 2024
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Jul. 04, 2024
Approved By	Max Zhang	
	Max Zhang Authorized Officer	Jul. 04, 2024



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2. Product Information

2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V5.0
Modulation Type	BLE ⊠GFSK 1Mbps ⊠GFSK 2Mbps
Number of channels	40
Carrier Frequency of Each Channel	40 Channels (37 Data channels + 3 advertising channels)
Channel Separation	2 MHz
Maximum Transmitter Power	Bluetooth LE (1Mbps): 3.971dBm Bluetooth LE (2Mbps): 4.018dBm
Hardware Version	V1.0
Software Version	2.13.1.0_RF_0
Antenna Designation	Integral Antenna
Antenna Gain	5.4dBi
Power Supply	DC 3.8V, 1900mAh by battery or charging for DC 5V by adapter

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency		
	0	2402 MHz		
	1	2404 MHz		
2400~2483.5MHz	:	:		
	19	2440MHz		
	:	:		
	38	2478 MHz		
	39	2480 MHz		
Note: f = 2402 + 2*k MHz, k = 0,, 39 f is the operating frequency (MHz); k is the operating channel.				



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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BCUQ-W601W**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 5.4dBi.



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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. 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 our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



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3.3 Environmental Conditions

	Normal Conditions		
Temperature range (℃)	15 - 35		
Relative humidity range	20 % - 75 %		
Pressure range (kPa)	86 - 106		
Power supply	DC 3.8V		

3.4 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%

uncertainty multiplied by a coverage factor of k=2, pro	viding a level of confidence of approximately 95 %.		
Item	Measurement Uncertainty		
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$		
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$		
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$		
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 = ±2 %		
Uncertainty of Occupied Channel Bandwidth	U _c = ±2 %		
	Uncertainty of Conducted Emission for AC Port Uncertainty of Radiated Emission below 1GHz Uncertainty of Radiated Emission above 1GHz Uncertainty of total RF power, conducted Uncertainty of RF power density, conducted Uncertainty of spurious emissions, conducted		



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3.5 List of Equipment Use

• R	RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31	
\boxtimes	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23	
	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2024-02-01	2025-01-31	
	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2024-02-01	2025-01-31	
\boxtimes	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08	
	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31	
	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2024-05-23	2025-05-22	
\boxtimes	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A	
\boxtimes	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A	

• F	Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31	
\boxtimes	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02	
\boxtimes	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23	
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31	
	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27	
	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04	
	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10	
	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30	
\boxtimes	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23	
	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03	
	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31	
	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22	
\boxtimes	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	N/A	N/A	



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A	AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
\boxtimes	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02	
\boxtimes	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2024-05-28	2025-05-27	
\boxtimes	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2025-06-08	
\boxtimes	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024-06-02	
\boxtimes	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27	

• Tes	Test Software							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information			
\boxtimes	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71			
\boxtimes	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A			
\boxtimes	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6			
	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0			



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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

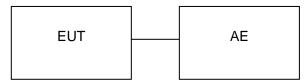
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:



4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☐ Test Accessories Come From The Laboratory

No	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Control Box	N/A	USB-TTL	N/A	N/A
2	Earphone	CXT	N/A	N/A	1.2m unshielded

□ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter 1#	Gangqi	GQ12-050200-AU	Input: AC 100-240V 50/60Hz, 0.4A Output: DC 5V 2A	1.3m unshielded
2	Adapter 2#	FRECOM	F12L20-050200SPAU	Input: AC 100-240V 50/60Hz, 0.3A Output: DC 5V 2A	1.3m unshielded
4	Battery	YJ	YJ563170	DC 3.8V 1900mA 7.22Wh	N/A
5	Back Clip	N/A	N/A	N/A	N/A



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4.5 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)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.209	Radiated Emission& Band Edge	Pass
7	§15.207	AC Power Line Conducted Emission	Pass



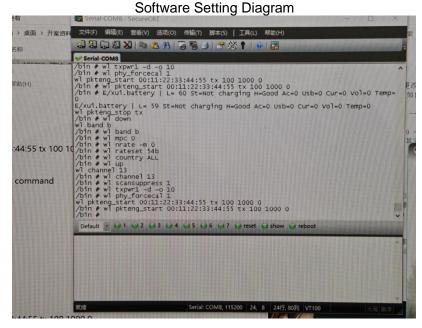
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5. Description of Test Modes

Summary Table of Test Cases					
	Data Rate / Modulation				
Test Item	Bluetooth – LE(1Mbps/2Mbps) / GFSK				
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered or AC/DC adapter)				
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered or AC/DC adapter)				
Radiated & Conducted	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered or AC/DC adapter)				
Test Cases	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps(Battery powered or AC/DC adapter)				
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps(Battery powered or AC/DC adapter)				
	Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps(Battery powered or AC/DC adapter)				
AC Conducted Emission	Mode 1: Bluetooth Link + Battery + USB Cable (Charging from AC Adapter1#) Mode 2: Bluetooth Link + Battery + USB Cable (Charging from AC Adapter2#)				

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. The battery is full-charged during the test.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.





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6. Duty Cycle Measurement

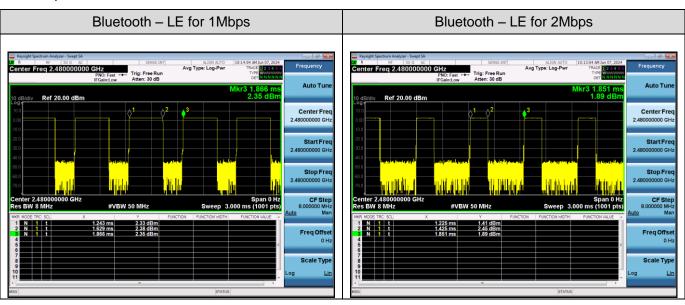
The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(µs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	386	62	2.08	2.58
BLE_2Mbps	200	32	4.95	5.00

Remark:

- 1. Duty Cycle factor = 10 * log (1/ Duty cycle)
- 2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value

The test plots as follows:





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7. RF Output Power Measurement

7.1 Provisions Applicable

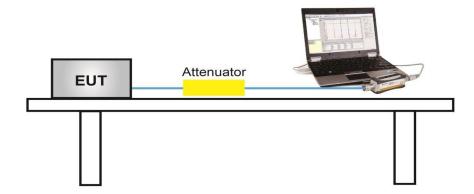
For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 Measurement Procedure

- For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the RBW≥DTS bandwidth
- 3. Set the VBW ≥ [3 x RBW].
- 4. Span ≥ [3 x RBW].
- 5. Sweep= auto couple.
- 6. Detector Function= Peak.
- 7. Trace mode= Max hold.
- 8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:
- 1. The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 2. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

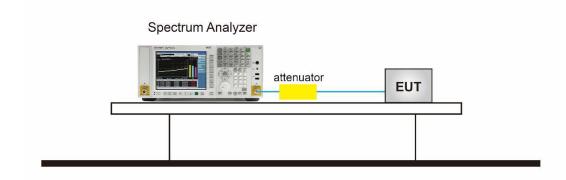
7.3 Measurement Setup (Block Diagram of Configuration)

For Average power test setup



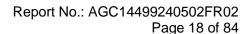


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7.4 Measurement Result

Test Data of Conducted Output Power						
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail		
	2402	1.349	≤30	Pass		
GFSK_1Mbps	2440	3.971	≤30	Pass		
	2480	2.591,	≤30	Pass		
	2402	1.294	≤30	Pass		
GFSK_2Mbps	2440	4.018	≤30	Pass		
	2480	2.690	≤30	Pass		



CF Step 500.000 kHz

Freq Offset 0 Hz

Scale Type

<u>Auto</u>

Log

Span 5.000 MHz Sweep 1.066 ms (1000 pts)



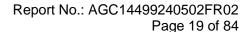
Test Graphs of Conducted Output Power Avg Type: Log-Pwr Avg|Hold: 100/100 Frequency Center Freq 2.402000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast ↔ IFGain:Low **Auto Tune** Mkr1 2.402 193 GHz 1.349 dBm 10 dB/div Ref 30.00 dBm Center Freq 2.402000000 GHz Start Freq 2.399500000 GHz Stop Freq 2.404500000 GHz **CF Step** 500.000 kHz Man Auto Freq Offset Scale Type Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.066 ms (1000 pts) Log <u>Lin</u> **#VBW 5.0 MHz** Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power Avg Type: Log-Pwr Avg|Hold: 100/100 Frequency Center Freq 2.440000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast ↔ IFGain:Low **Auto Tune** Mkr1 2.440 278 GHz 3.971 dBm Ref 30.00 dBm 10 dB/div Log Center Freq 2.440000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

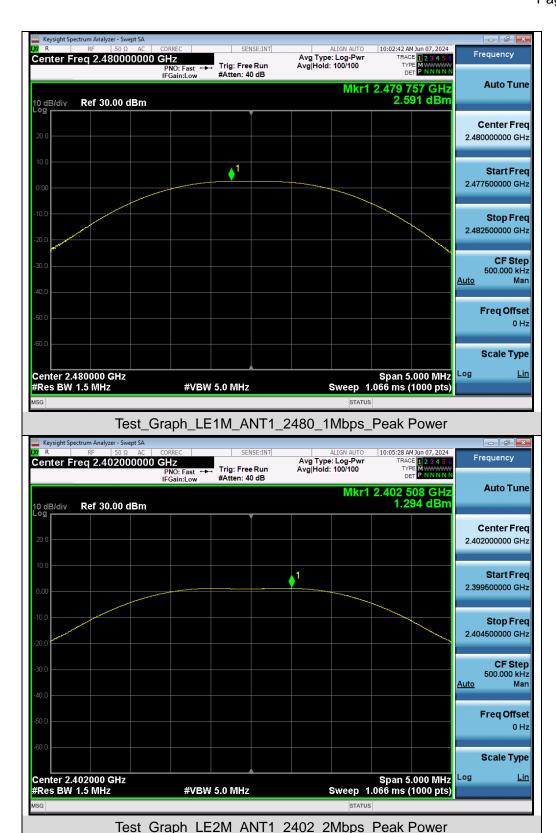
Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power

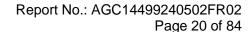
#VBW 5.0 MHz

Center 2.440000 GHz #Res BW 1.5 MHz

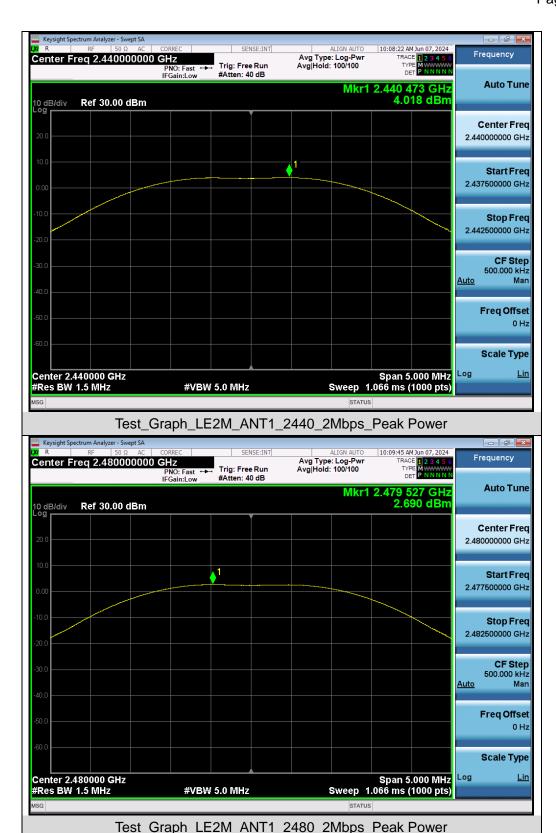














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8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

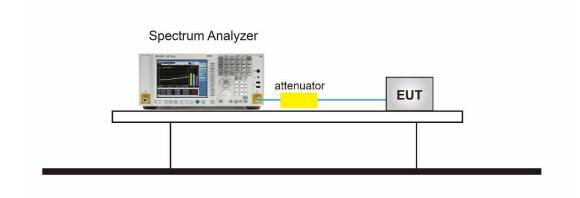
The minimum 6 dB bandwidth shall be 500 kHz.

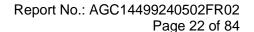
8.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 5. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)



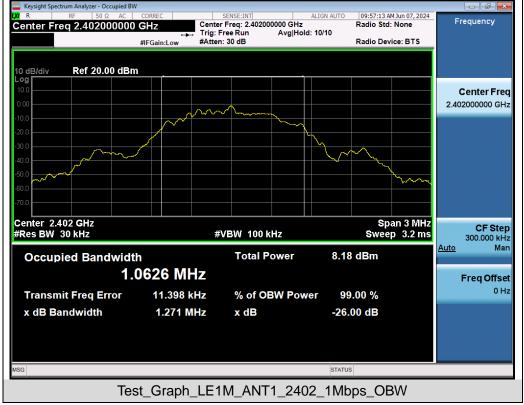


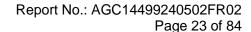


8.4 Measurement Results

Test Data of Occupied Bandwidth and DTS Bandwidth							
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail		
	2402	1.063	0.708	≥0.5	Pass		
GFSK_1Mbps	2440	1.062	0.712	≥0.5	Pass		
	2480	1.062	0.721	≥0.5	Pass		
GFSK_2Mbps	2402	2.078	1.116	≥0.5	Pass		
	2440	2.082	1.100	≥0.5	Pass		
	2480	2.082	1.114	≥0.5	Pass		

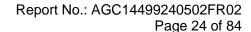
Test Graphs of Occupied Bandwidth







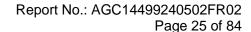




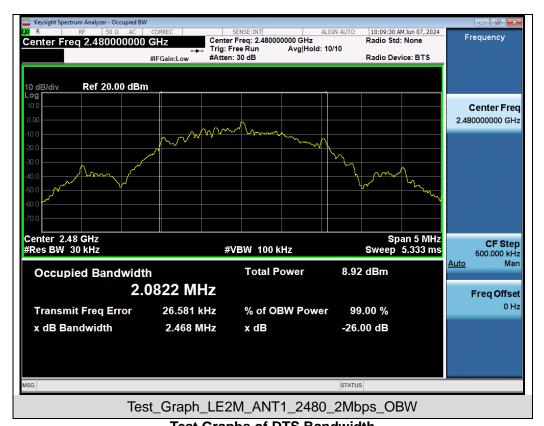


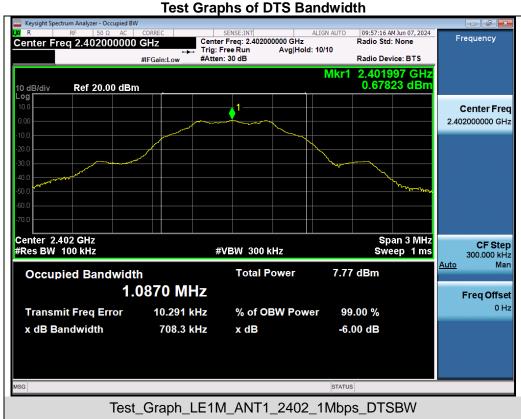


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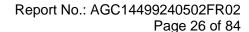








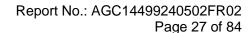
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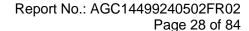


Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

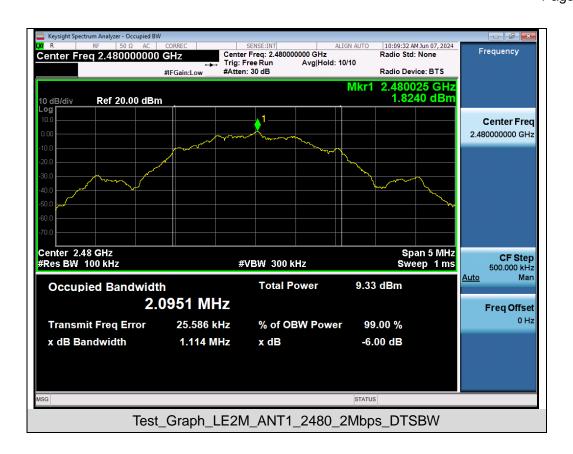














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9. Power Spectral Density Measurement

9.1 Provisions Applicable

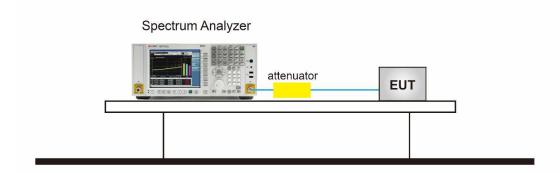
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss
 was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- 6. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

9.3 Measurement Setup (Block Diagram of Configuration)

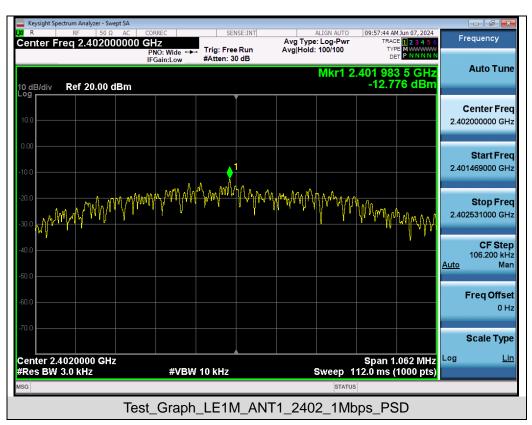


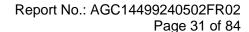


9.4 Measurement Results

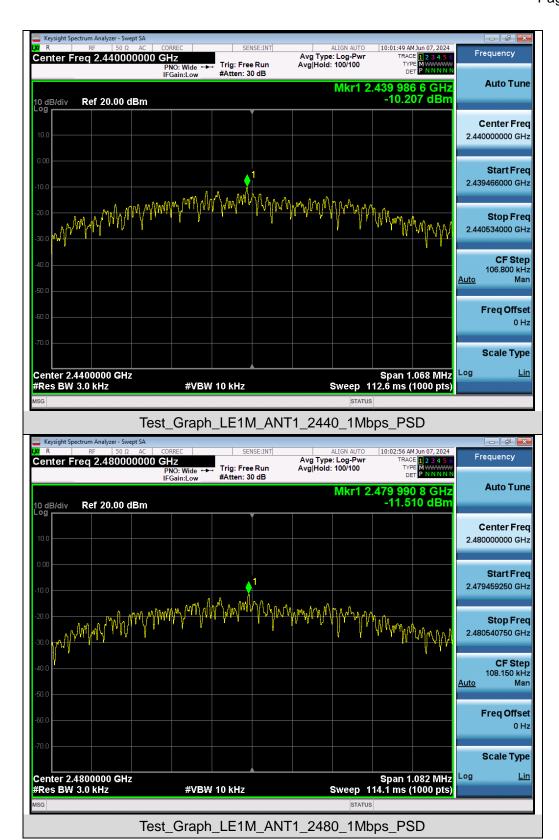
Test Data of Conducted Output Power Spectral Density						
Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
	2402	-12.776	≪8	Pass		
GFSK_1Mbps	2440	-10.207	≪8	Pass		
	2480	-11.510	≪8	Pass		
	2402	-15.485	≪8	Pass		
GFSK_2Mbps	2440	-12.783	≪8	Pass		
	2480	-14.129	≪8	Pass		

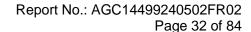
Test Graphs of Conducted Output Power Spectral Density



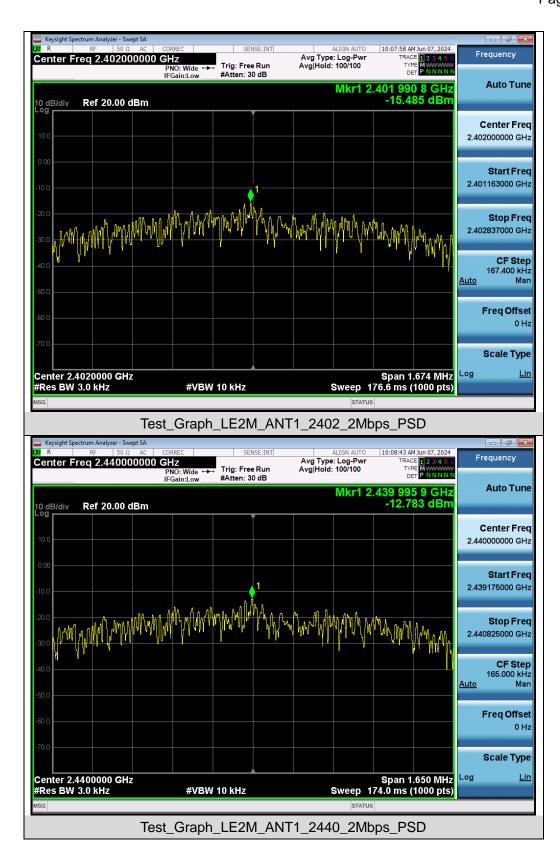


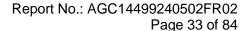




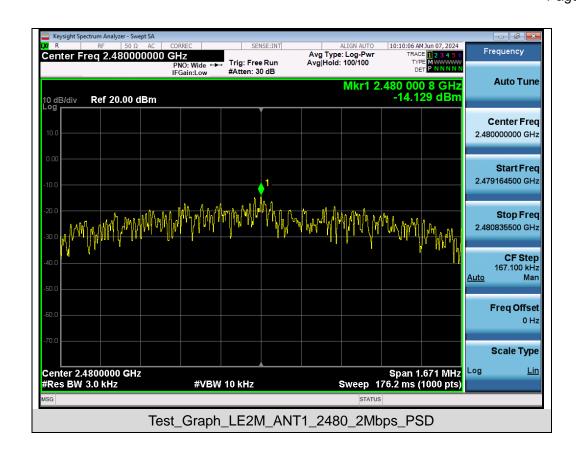














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10. Conducted Band Edge and Out-of-Band Emissions

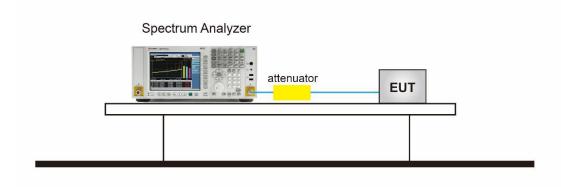
10.1 Provisions Applicable

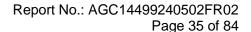
The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

10.2 Measurement Procedure

- Reference level measurement
- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize
- Emission level measurement
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

10.3 Measurement Setup (Block Diagram of Configuration)



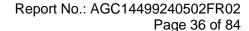




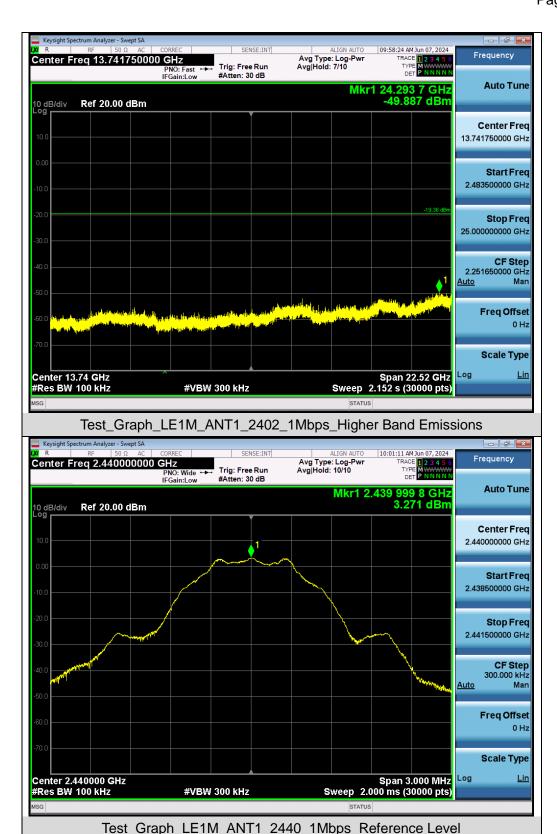
10.4 Measurement Results

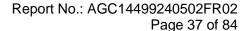
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands











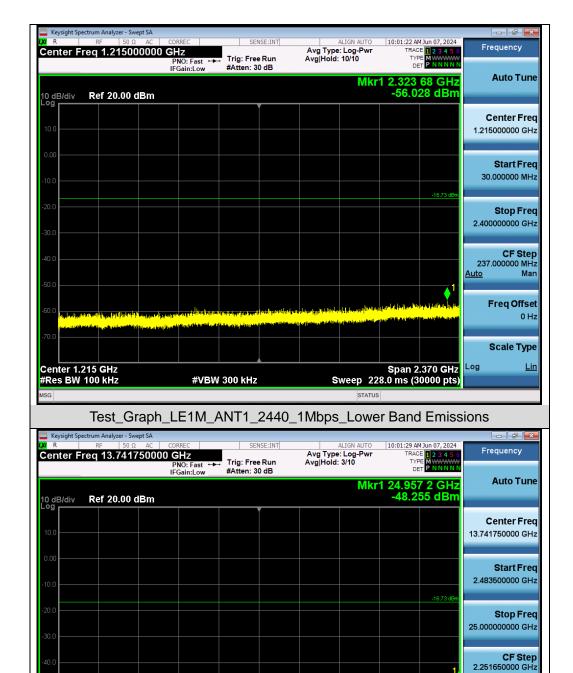
<u>Auto</u>

Span 22.52 GHz Sweep 2.152 s (30000 pts) Man

Freq Offset 0 Hz

Scale Type



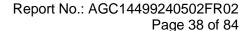


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Test Graph LE1M ANT1 2440 1Mbps Higher Band Emissions

#VBW 300 kHz

Center 13.74 GĤz #Res BW 100 kHz



Freq Offset 0 Hz

Scale Type

Span 2.370 GHz Sweep 228.0 ms (30000 pts)



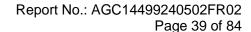


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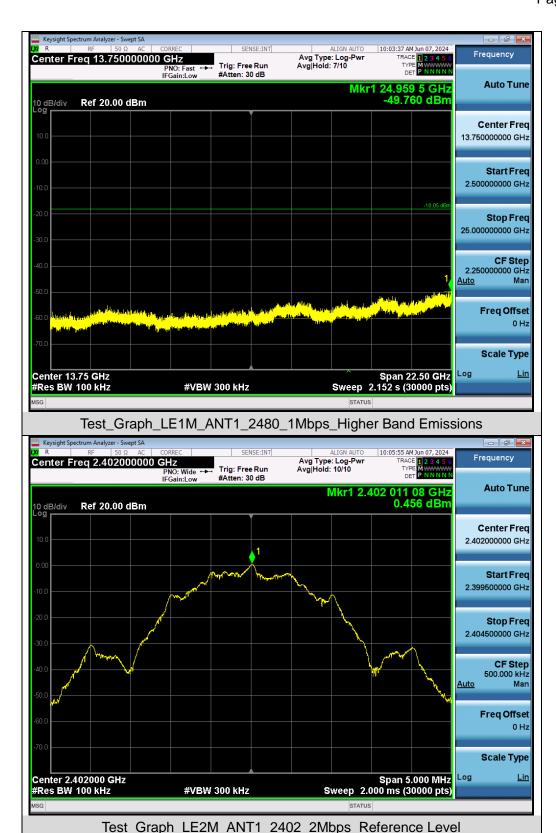
Test Graph LE1M ANT1 2480 1Mbps Lower Band Emissions

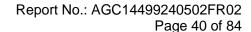
#VBW 300 kHz

Center 1.215 GHz #Res BW 100 kHz









CF Step 2.251650000 GHz

Freq Offset 0 Hz

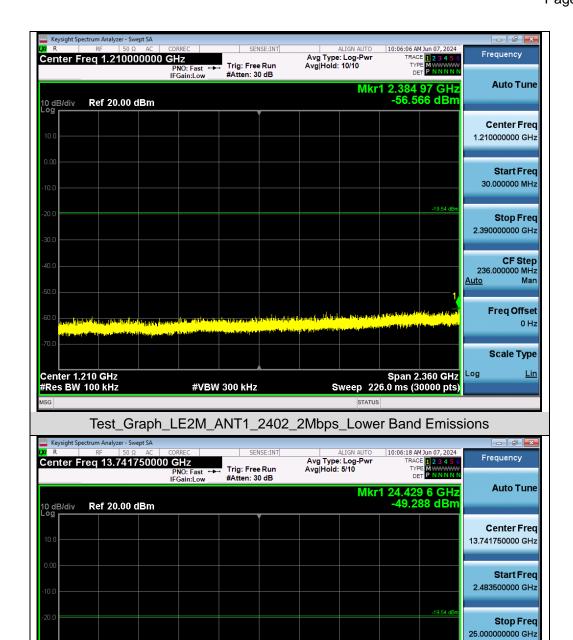
Scale Type

Man

<u>Auto</u>

Span 22.52 GHz Sweep 2.152 s (30000 pts)



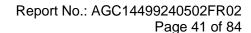


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Test Graph LE2M ANT1 2402 2Mbps Higher Band Emissions

#VBW 300 kHz

Center 13.74 GHz #Res BW 100 kHz

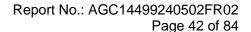




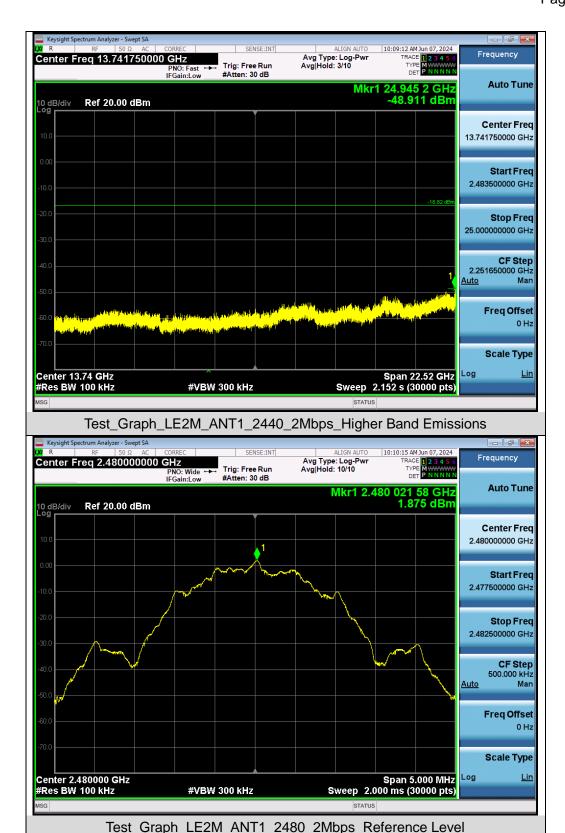


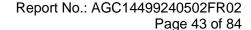
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Graph LE2M ANT1 2440 2Mbps Lower Band Emissions









25.000000000 GHz

CF Step 2.250000000 GHz

Freq Offset 0 Hz

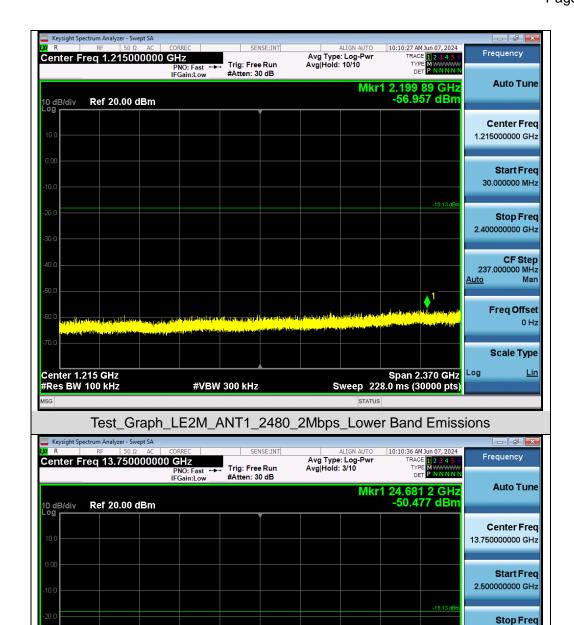
Scale Type

Man

<u>Auto</u>

Span 22.50 GHz Sweep 2.152 s (30000 pts)



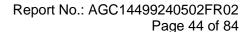


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Graph LE2M ANT1 2480 2Mbps Higher Band Emissions

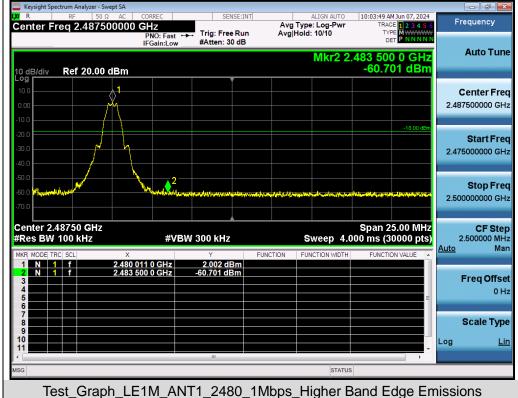
#VBW 300 kHz

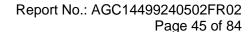
Center 13.75 GHz #Res BW 100 kHz



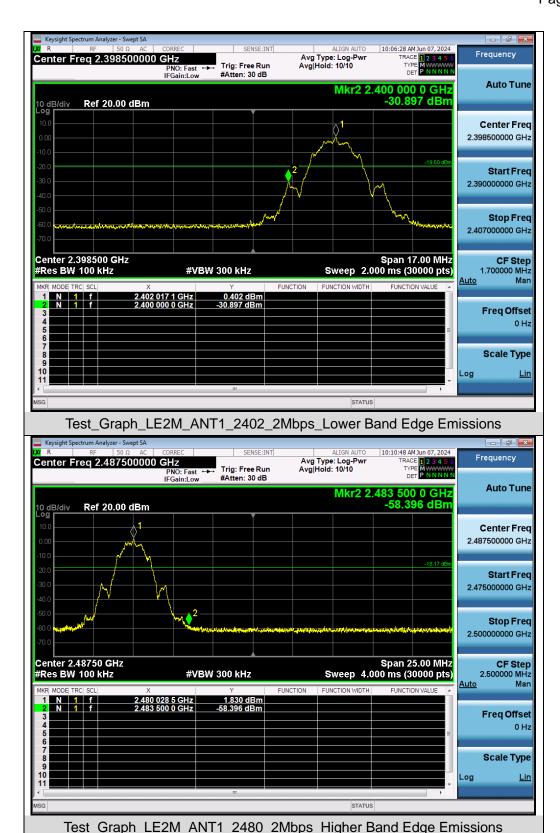


Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Trig: Free Run #Atten: 30 dB TYPE M DET P PNO: Fast IFGain:Low **Auto Tune** Mkr2 2.400 000 0 GHz -57.372 dBm Ref 20.00 dBm Center Freq 2.398500000 GHz Start Freq 2.390000000 GHz Stop Freq 2.407000000 GHz Center 2.398500 GHz #Res BW 100 kHz Span 17.00 MHz **CF Step #VBW** 300 kHz Sweep 2.000 ms (30000 pts) 1.700000 MHz <u>Auto</u> Man 0.740 dBm -57.372 dBm Freq Offset Scale Type Log <u>Lin</u> Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions Frequency











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11. Radiated Spurious Emission

11.1 Measurement Limit

FCC Part 15,209 Limit in the below table 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.

11.2 Measurement Procedure

- 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.
- 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.
- 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.



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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.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
Clart - Clop i requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP



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Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

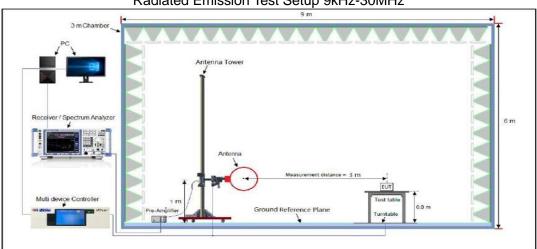
Average Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. $VBW \ge [3 \times RBW]$
- 4. Detector = Power averaging (rms)
- 5. Averaging type = power (i.e., rms)
- 6. Sweep time = auto
- 7. Perform a trace average of at least 100 traces.
- 8. The applicable correction factor is [10*log (1 / D)], where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

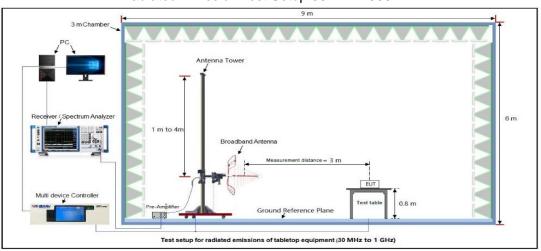


11.3 Measurement Setup (Block Diagram of Configuration)

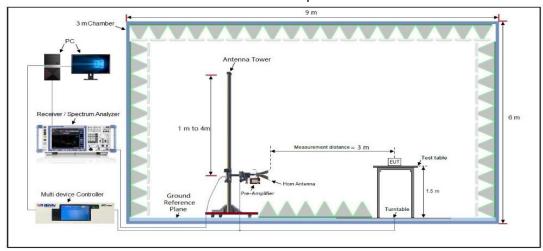
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



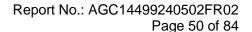
Radiated Emission Test Setup Above 1000MHz



11.4 Measurement Result

Any report having not been signed by authorized approver, **Radiated Emission Below**, **30MHz** ot been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

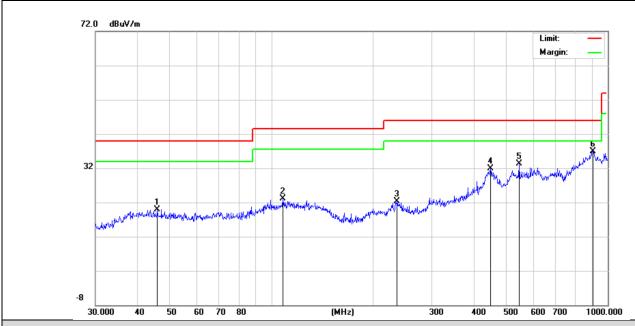
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/





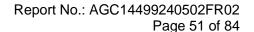
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Portable Wi-Fi Phone	Model Name	W601W		
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#		
Test Mode	Mode 2	Antenna Polarity	Horizontal		



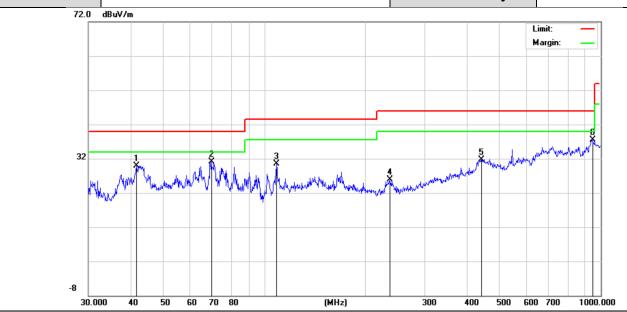
Final	Data	List	_Pea	k
-------	------	------	------	---

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.8553	19.93	13.49	40.00	20.07	100	160	Horizontal
2	108.2667	23.09	16.28	43.50	20.41	100	170	Horizontal
3	235.8164	22.39	15.19	46.00	23.61	100	90	Horizontal
4	447.9822	31.96	24.82	46.00	14.04	100	220	Horizontal
5	545.1826	33.33	23.98	46.00	12.67	100	160	Horizontal
6	903.3094	36.97	31.34	46.00	9.03	100	140	Horizontal

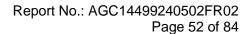




Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Portable Wi-Fi Phone	Model Name	W601W		
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#		
Test Mode	Mode 2	Antenna Polarity	Vertical		

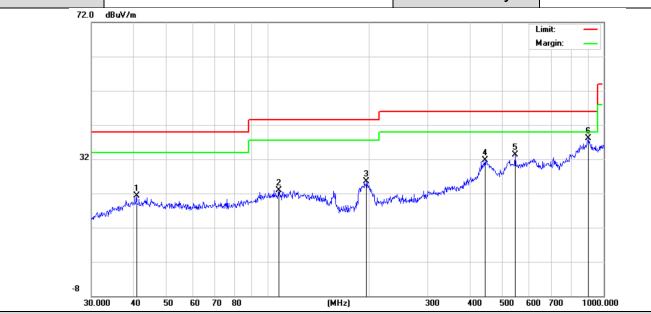


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.7129	29.98	16.92	40.00	10.02	100	160	Vertical
2	69.6005	31.01	17.00	40.00	8.99	100	170	Vertical
3	108.6470	30.47	15.71	43.50	13.03	100	90	Vertical
4	235.8164	25.84	16.27	46.00	20.16	100	220	Vertical
5	441.7426	31.79	26.02	46.00	14.21	100	160	Vertical
6	945.4399	37.43	30.78	46.00	8.57	100	140	Vertical



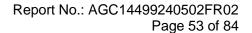


Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Portable Wi-Fi Phone	Model Name	W601W		
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#		
Test Mode	Mode 2	Antenna Polarity	Horizontal		



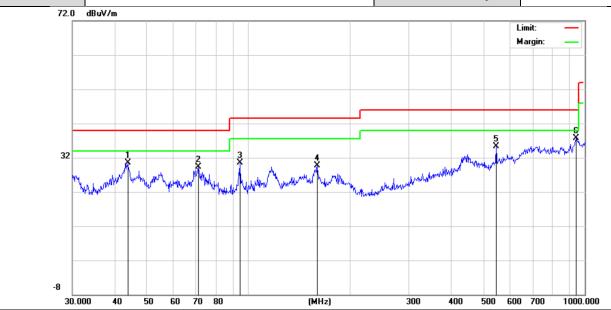
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NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.8446	21.21	13.84	40.00	18.79	100	100	Horizontal
2	108.2667	22.93	16.28	43.50	20.57	100	60	Horizontal
3	197.2001	25.46	14.18	43.50	18.04	100	90	Horizontal
4	443.2943	31.78	24.98	46.00	14.22	100	100	Horizontal
5	545.1826	33.23	23.98	46.00	12.77	100	110	Horizontal
6	900.1474	38.04	31.78	46.00	7.96	100	160	Horizontal

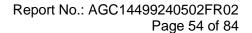




Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Portable Wi-Fi Phone	Model Name	W601W		
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#		
Test Mode	Mode 2	Antenna Polarity	Vertical		

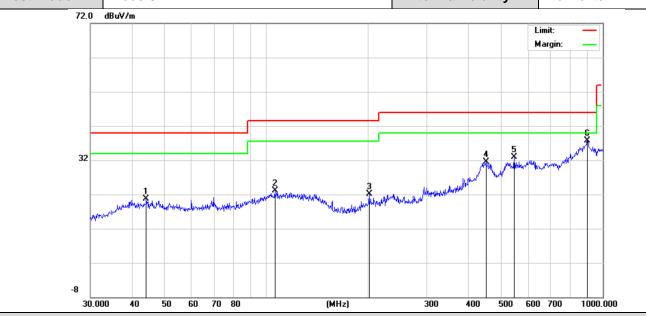


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.8119	30.54	16.94	40.00	9.46	100	240	Vertical
2	71.0803	29.29	16.99	40.00	10.71	100	210	Vertical
3	94.4284	30.49	14.95	43.50	13.01	100	70	Vertical
4	160.3456	29.61	18.21	43.50	13.89	100	120	Vertical
5	545.1826	35.27	24.67	46.00	10.73	100	180	Vertical
6	942.1305	37.62	30.91	46.00	8.38	100	190	Vertical

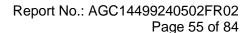




Radiated Emission Test Results at 30MHz-1GHz					
EUT Name Portable Wi-Fi Phone Model Name W601W					
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#		
Test Mode	Mode 5	Antenna Polarity	Horizontal		

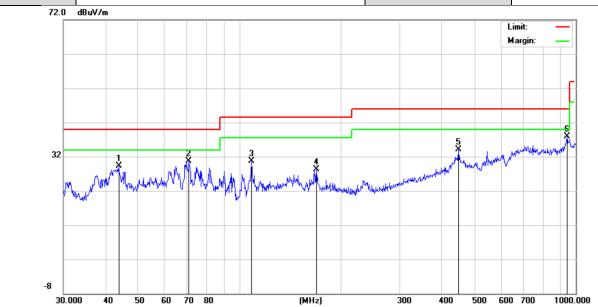


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.9658	20.62	13.62	40.00	19.38	100	100	Horizontal
2	106.0126	23.18	16.26	43.50	20.32	100	180	Horizontal
3	202.1005	22.10	14.49	43.50	21.4	100	210	Horizontal
4	449.5558	31.43	24.77	46.00	14.57	100	230	Horizontal
5	545.1826	32.96	23.98	46.00	13.04	100	120	Horizontal
6	900.1474	37.62	31.78	46.00	8.38	100	150	Horizontal

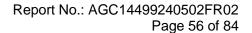




Radiated Emission Test Results at 30MHz-1GHz					
EUT Name Portable Wi-Fi Phone Model Name W601W					
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#		
Test Mode	Mode 5	Antenna Polarity	Vertical		

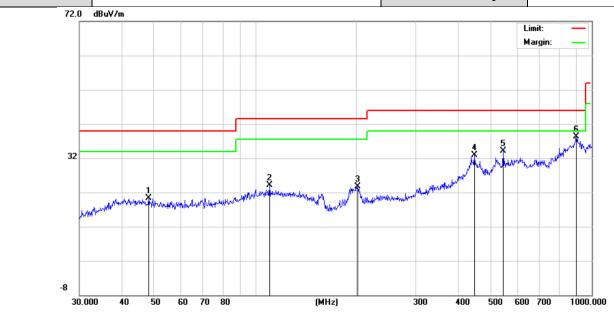


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.8119	29.21	16.94	40.00	10.79	100	160	Vertical
2	70.8315	30.78	16.99	40.00	9.22	100	170	Vertical
3	108.6470	30.66	15.71	43.50	12.84	100	90	Vertical
4	169.5990	28.28	18.34	43.50	15.22	100	220	Vertical
5	447.9822	34.17	25.74	46.00	11.83	100	160	Vertical
6	942.1305	37.85	30.91	46.00	8.15	100	140	Vertical





Radiated Emission Test Results at 30MHz-1GHz					
EUT Name Portable Wi-Fi Phone Model Name W601W					
Temperature	22.8℃	Relative Humidity	57.1%		
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#		
Test Mode	Mode 5	Antenna Polarity	Horizontal		

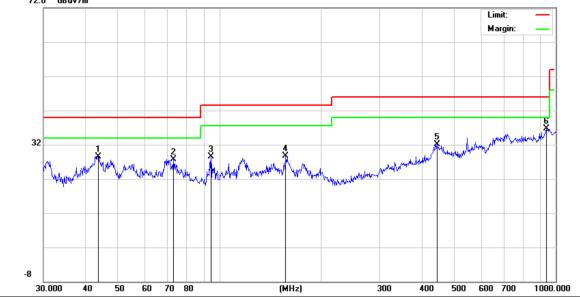


Final I	Data List _Pea	ık						
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.1626	20.24	13.33	40.00	19.76	100	210	Horizontal
2	110.1816	24.04	16.30	43.50	19.46	100	220	Horizontal
3	201.3930	23.78	14.49	43.50	19.72	100	140	Horizontal
4	447.9822	32.89	24.82	46.00	13.11	100	210	Horizontal
5	545.1826	34.20	23.98	46.00	11.8	100	80	Horizontal
6	900.1474	38.36	31.78	46.00	7.64	100	100	Horizontal



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	Radiated Emission Test Results at 30MHz-1GHz									
EUT Name	Portable Wi-Fi Phone	Model Name	W601W							
Temperature	22.8℃	Relative Humidity	57.1%							
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#							
Test Mode	Mode 5	Antenna Polarity	Vertical							
72.0	dBuV/m									
_			Limit: — Margin: —							



Final	Data	List	_Pea	k
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NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.6584	28.60	16.94	40.00	11.4	100	120	Vertical
2	73.1025	27.80	16.97	40.00	12.2	100	150	Vertical
3	94.4284	28.60	14.95	43.50	14.9	100	180	Vertical
4	157.5588	28.68	18.20	43.50	14.82	100	210	Vertical
5	443.2943	32.20	25.95	46.00	13.8	100	220	Vertical
6	938.8326	36.69	30.84	46.00	9.31	100	80	Vertical

RESULT: Pass

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

2. All test modes had been pre-tested. The mode 2/5 are the worst case and recorded in the report.



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity 55.4%	
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	49.78	0.08	49.86	74.00	-24.14	peak
4804.000	39.74	0.08	39.82	54.00	-14.18	AVG
7206.000	49.56	2.21	51.77	74.00	- 2.23	peak
7206.000	41.21	2.21	43.42	54.00	-10.58	AVG

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity 55.4%	
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4804.000	50.19	0.08	50.27	74.00	-23.73	peak
4804.000	38.34	0.08	38.42	54.00	-15.58	AVG
7206.000	48.63	2.21	50.84	74.00	-23.16	peak
7206.000	39.55	2.21	41.76	54.00	-12.24	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	51.53	0.14	51.67	74.00	-22.33	peak
4880.000	39.31	0.14	39.45	54.00	-14.55	AVG
7320.000	48.34	2.36	50.7	74.00	-23.3	peak
7320.000	38.99	2.36	41.35	54.00	-12.65	AVG

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity 55.4%	
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	mission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	51.33	0.14	51.47	74.00	-22.53	peak
4880.000	38.74	0.14	38.88	54.00	-15.12	AVG
7320.000	49.31	2.36	51.67	74.00	-22.33	peak
7320.000	39.78	2.36	42.14	54.00	-11.86	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	, ,,,
4960.000	48.97	0.22	49.19	74.00	-24.81	peak
4960. 00	41.53	0.22	41.75	54.00	-12.25	AVG
7440.000	46.51	2.64	49.15	74.00	-24.85	peak
7440.000	39.98	2.64	42.62	54.00	-11.38	AVG
Domark:		<u> </u>	•		•	<u>-</u>

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name W601W	
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4960.000	50.25	0.22	50.47	74.00	-23.53	peak
4960.000	40.39	0.22	40.61	54.00	-13.39	AVG
7440.000	45.84	2.64	48.48	74.00	-25.52	peak
7440.000	38.19	2.64	40.83	54.00	-13.17	AVG
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Remark:

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

RESULT: Pass



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EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 4	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	49.57	0.08	49.65	74.00	-24.35	peak
4804.000	39.63	0.08	39.71	54.00	-14.29	AVG
7206.000	49.14	2.21	51.35	74.00	-22.65	peak
7206.000	39.57	2.21	41.78	54.00	-12.22	AVG

Remark:

Factor = Ant nna Factor + Cable Loss - Pre-amplifier.

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 4	Antenna Polarity	Vertical

Frequency	Meter Readin	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	48.74	0.08	48.82	74.00	-25.18	peak
4804.000	39.55	0.08	39.63	54.00	-14.37	AVG
7206.000	49.78	2.21	51.99	74.00	-22.01	peak
7206.000	39.16	2.21	41.37	54.00	-12.63	AVG

Remark

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 5	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	50.24	0.14	50.38	74.00	-23.62	pea
4880.000	39.61	0.14	39.75	54.00	-14.25	AVG
7320.000	49.66	2.36	52.02	74.00	-21.98	peak
7320.000	38.97	2.36	41.33	54.00	-12.67	AVG

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 5	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	dB)	
4880.000	51.11	0.14	51.25	74.00	-22.75	peak
4880.000	38.65	0.14	38.79	54.00	-15.21	AVG
7320.000	49.59	2.36	51.95	74.00	-22.05	peak
7320.000	39.66	2.36	42.02	54.00	-11.98	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 6	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4960.000	48.97	0.22	49.19	74.00	-24.81	peak
4960.000	41.53	0.22	41.75	54.00	-12.25	AVG
7440.000	46.51	2.64	49.15	74.00	-24.85	peak
7440.000	39.98	2.64	42.62	54.00	-11.38	AVG
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Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 6	Antenna Polarity	Vertical

Frequency	Meter Re ding	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4960.000	51.24	0.22	51.46	74.00	-22.54	peak
4960.000	41.56	0.22	41.78	54.00	-12.22	AVG
7440.000	49.77	2.64	52.41	74.00	-21.59	peak
7440.000	39.64	2.64	42.28	54.00	-11.72	AVG
Domorki		•				-

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	49.47	0.08	49.55	74.00	-24.45	peak
4804.000	40.17	0.08	40.25	54.00	-13.75	AVG
7206.000	49.56	2.21	51.77	74.00	-22.23	peak
7206.000	40.35	2.21	42.56	54.00	-11.44	AVG
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Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4804.000	50.34	0.08	50.42	74.00	-23.58	peak
4804.000	39.85	0.08	39.93	54.00	-14.07	AVG
7206.000	49.81	2.21	52.02	74.00	-21.98	peak
7206.000	41.33	2.21	43.54	54.00	-10.46	AVG
Remark:						=

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	50.28	0.14	50.42	74.00	-23.58	peak
4880.000	39.87	0.14	40.01	54.00	-13.99	AVG
7320.000	49.43	2.36	51.79	74.00	-22.21	peak
7320.000	39.39	2.36	41.75	54.00	-12.25	AVG

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	51.14	0.14	51.28	74.00	-22.72	peak
4880.000	39.25	0.14	39.39	54.00	-14.61	AVG
7320.000	49.37	2.36	51.73	74.00	-22.27	peak
7320.000	39.59	2.36	41.95	54.00	-12.05	AVG
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Remark:

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4960.000	50.28	0.22	50.5	74.00	-23.50	peak
4960.000	40.39	0.22	40.61	54.00	-13.39	AVG
7440.000	49.74	2.64	52.38	74.00	-21.62	peak
7440.000	39.51	2.64	42.15	54.00	-11.85	AVG
Domorki		•	•			=

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)] "
4960.000	51.24	0.22	51.46	74.00	-22.54	peak
4960.000	41.67	0.22	41.89	54.00	-12.11	AVG
7440.000	49.04	2.64	51.68	74.00	-22.32	peak
7440.000	39.77	2.64	42.41	54.00	-11.59	AVG
Remark:		•				

Remark

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

RESULT: Pass



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EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 4	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	49.89	0.08	49.97	74.00	-24.03	peak
4804.000	39.55	0.08	39.63	54.00	-14.37	AVG
7206.000	49.61	2.21	51.82	74.00	-22.18	peak
7206.000	40.33	2.21	42.54	54.00	-11.46	AVG
Pomark:	-					

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 4	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	48.96	0.08	49.04	74.00	-24.96	peak
4804.000	39.59	0.08	39.67	54.00	-14.33	AVG
7206.000	49.61	2.21	51.82	74.00	-22.18	peak
7206.000	40.64	2.21	42.85	54.00	-11.15	AVG
Remark:	-					

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 5	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	50.28	0.14	50.42	74.00	-23.58	peak
4880.000	39.55	0.14	39.69	54.00	-14.31	AVG
7320.000	49.59	2.36	51.95	74.00	-22.05	peak
7320.000	40.11	2.36	42.47	54.00	-11.53	AVG
Damante						

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 5	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	50.99	0.14	51.13	74.00	-22.87	peak
4880.000	40.10	0.14	40.24	54.00	-13.76	AVG
7320.000	48.34	2.36	50.70	74.00	-23.30	peak
7320.000	39.94	2.36	42.30	54.00	-11.70	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 6	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	50.20	0.22	50.42	74.00	-23.58	peak
4960.000	40.27	0.22	40.49	54.00	-13.51	AVG
7440.000	48.95	2.64	51.59	74.00	-22.41	peak
7440.000	38.79	2.64	41.43	54.00	-12.57	AVG
Domorke		•	•	•	-	_

Remark:

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

EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 6	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	49.51	0.22	49.73	74.00	-24.27	peak
4960.000	41.25	0.22	41.47	54.00	-12.53	AVG
7440.000	49.33	2.64	51.97	74.00	-22.03	peak
7440.000	39.47	2.64	42.11	54.00	-11.89	AVG
Domark:					•	

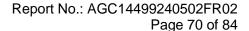
Remark:

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

RESULT: Pass

Note:

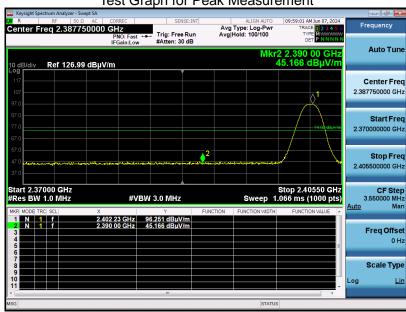
- 1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.



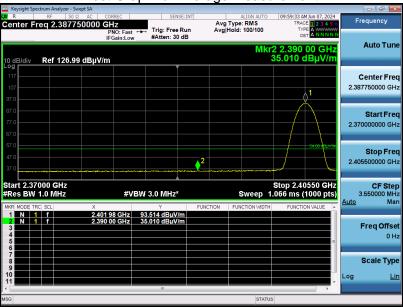


EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

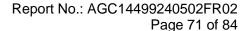
Test Graph for Peak Measurement







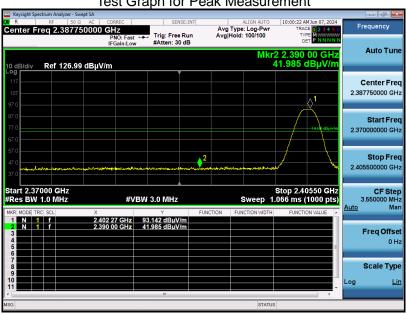
RESULT: Pass



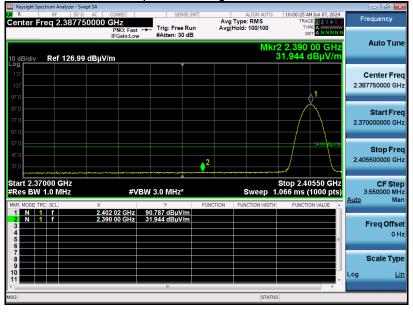


EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

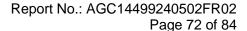
Test Graph for Peak Measurement







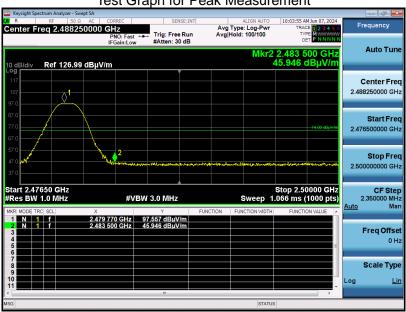
RESULT: Pass



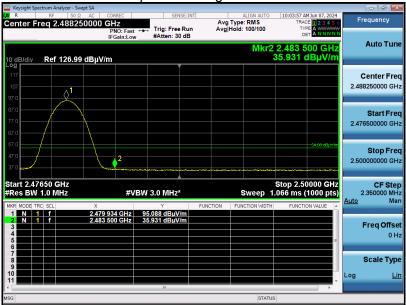


EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

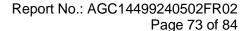
Test Graph for Peak Measurement







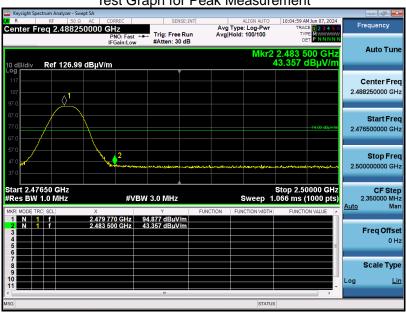
RESULT: Pass



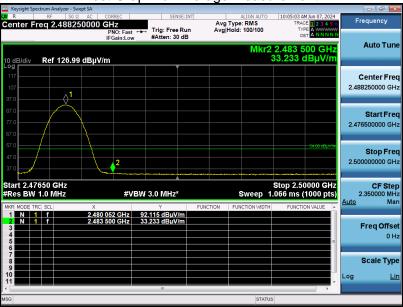


EUT Name	Portable Wi-Fi Phone	Model Name	W601W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement







RESULT: Pass