RF Test Report

Applicant	:	BUFFALO INC.
Product Type	:	Bluetooth USB Adapter
Trade Name	:	BUFFALO
Model Number	:	DFE00001
Applicable Standard	:	Notification No.88 of MIC, 2004, Annex 43 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2 Paragraph 1)
Received Date	:	Feb. 15, 2022
Test Period	:	Mar. 07 ~ Mar. 31, 2022
Issued Date	:	Apr. 25, 2022

Issued by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C)
Tel：+886-3-2710188 / Fax：+886-3-2710190

Revision History

Rev.	Issued Date	Revisions	Revised By
00	Apr. 25, 2022	Initial Issue	Snow Wang

Verification of Compliance

Applicant	:	BUFFALO INC.
Product Type	:	Bluetooth USB Adapter
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Model Number	:	DFE00001
Applicable Standard	:	Notification No.88 of MIC, 2004, Annex 43 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2 Paragraph 1)
Test Result	:	Complied
Performed Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C) Tel：+886-3-2710188 / Fax：+886-3-2710190

The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2 Paragraph 1) and technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By : Kai Yu Yang

(Kai Yu Yang)

TABLE OF CONTENTS

1 General Information

1.1. EUT Description

Applicant	BUFFALO INC. AKAMONDORI Bldg., 30-20, Ohsu 3-chome, Naka-ku, Nagoya-shi, Aichi 460-8315 Japan		
Product Type	Bluetooth USB Adapter		
Trade Name	BUFFALO		
Model Number	DFE00001		
Antenna Information	Trade Name: LYNwave Model Number: ALX19M-052AA3 Antenna Type: PIFA Max. Gain: -1.2 dBi		
Radio Equipment	2.4 GHz Band Wide-Band Low-Power Data Communication System		
Classification of Specified Radio Equipment	Article 2 Clause 1 Item 19		
Frequency Band	Bluetooth LE : 1 Mbps Bluetooth 2LE : 2 Mbps		
Frequency Range	2402-2480 MHz		
Channel Number	40		
Channel Separated	2 MHz		
Modulation Type	GFSK		
Type of Emissions	F1D		
Declared Rated Power	Bluetooth LE	4.613 mW	6.640 dBm
	Bluetooth 2LE	4.130 mW	6.160 dBm
E.I.R.P.	Bluetooth LE	5.440 dBm	
	Bluetooth 2LE	4.960 dBm	
Tested Circuit Insertion Loss	1 dB		
Operate Temp. Range	0 ~ 40 ℃		
EUT Power Rating	DC 5 V		

1.2. Summary of Test Result

Item	Result	Remark
Frequency Error	PASS	-----
Occupied Bandwidth	PASS	-----
Antenna Power (Conducted)	PASS	-----
Unwanted Emission Strength	PASS	-----
Secondarily Emitted Radio Wave Strength	PASS	-----
Radio Interference Prevention Capability Measurement	PASS	-----

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

2 Test Methodology

2.1. Mode of Operation

Test Category

2.4 GHz Band Wideband Low-Power Data Communication System

Test Mode
Mode 1: LE Continuous TX mode
Mode 2: 2LE Continuous TX mode

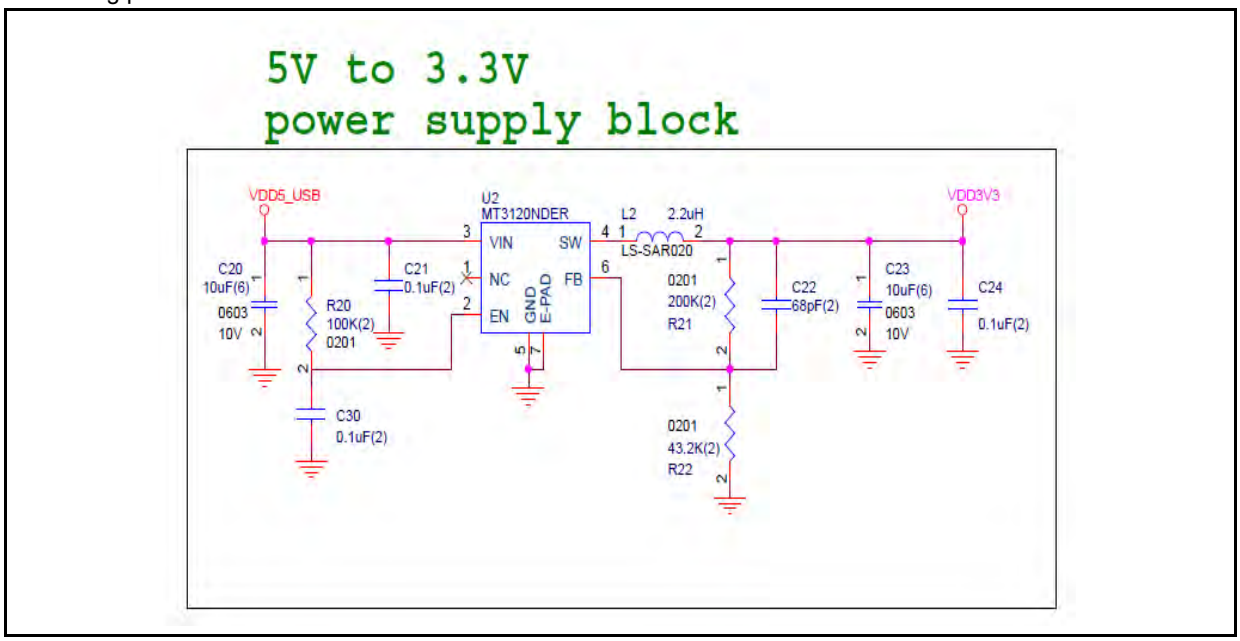
Comprehensive operation test

The normal voltage settings are respectively adopted during the test. Because the voltage error are less than 1 %.

Constant voltage check

EUT and Module Power tables				
EUT Setup Value (Vdc)		Normal	Hight(+10 %)	Low(-10 %)
		5	5.5	4.5
Module Vdd Power Measurement Value (Vdc)		Normal	Hight(+10 %)	Low(-10 %)
		3.31	3.32	3.31
Voltage error (%)	Result	Ref. level	-0.3021	0.0000
	Limit	---	± 1	
Judgment		---	PASS	PASS

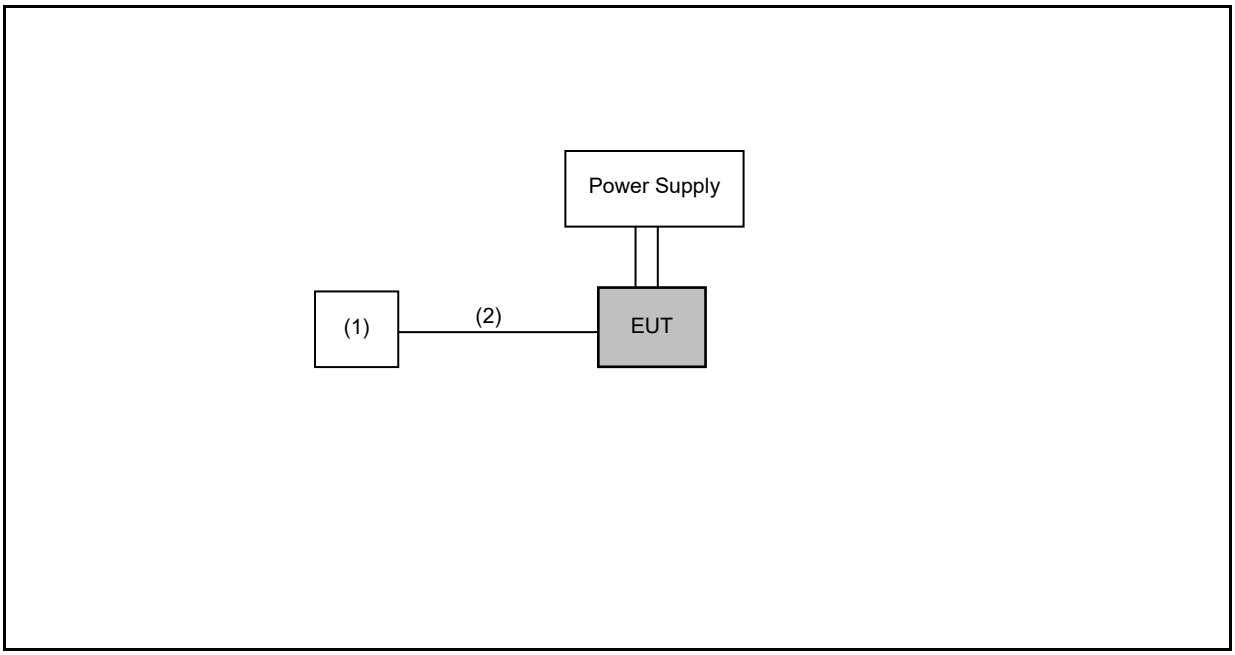
Measuring point



2.2. EUT Test Step

1.	Setup the EUT shown on “Configuration of Test System Details”.
2.	Turn on Bluetooth function.
3.	EUT run test program.

2.3. Configuration of Test System Details



Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	ASUS	BU400A	---	---
(2)	USB Cable	ATL	ATL-001		

2.4. Test Instruments

For Conducted

Test Period: Mar. 07 ~ Mar. 31, 2022

Testing Engineer: Peter Shui

Use	Equipment	Manufacturer	Model Number	Serial Number	Calibration Authority	Cal. Date	Cal. Period	Cal. Method
☒	Power Sensor	Anritsu	MA2411B	1126022	ETC	Sep. 03, 2021	1 year	(C)
☒	Power Meter	Anritsu	ML2495A	1135009	ETC	Sep. 03, 2021	1 year	(C)
☐	Power Sensor	Agilent	N1921A	MY45241957	ETC	Dec. 06, 2021	1 year	(C)
☐	Power Meter	Agilent	N1911A	MY45101619	ETC	Dec. 06, 2021	1 year	(C)
☐	Spectrum Analyzer (10 Hz~26.5 GHz)	Keysight	N9010B	MY59071418	ETC	Mar. 17, 2021	1 year	(C)
☐	Spectrum Analyzer (9 kHz~26.5 GHz)	Agilent	N9010A	MY48030518	ETC	Jul. 23, 2021	1 year	(C)
☒	Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	ETC	Sep. 09, 2021	1 year	(C)
☐	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	ETC	Jan. 05, 2022	1 year	(C)
☐	Signal Generator	Keysight	N5182B	MY53052569	ETC	Apr. 20, 2021	1 year	(C)
☐	Signal Generator	Keysight	N5182BX07	MY59360221	ETC	Apr. 20, 2021	1 year	(C)
☐	Wireless Connectivity Tester	R&S	CMW270	102208	R&S	Jun. 02, 2021	1 year	(C)
☒	Power Supply	KEITHLEY	2303	4045290	OCL	Jan. 19, 2022	1 year	(C)

Remark：

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as “NICT”) or a designated calibration agency under Article 102-18 paragraph (1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c)

From JRL Article 24-2, paragraph 4, Item 2

2.5. Uncertainty of Measured Value

Test Item	Uncertainty
Frequency Error	1.3×10^{-7}
Occupied Bandwidth	4.5%
Spread Bandwidth	4.5%
Antenna Power Error	1.1 dB
Unwanted Emission Strength	1.1 dB
Secondarily Emitted Radio Wave Strength	1.1 dB

2.6. Test Site Environment

Items	Test Item	Required	Actual
Temperature (°C)	Conducted	5-35	20-30
Humidity (%RH)		45-85	45-75

Site Name: A Test Lab Techno Corp.

Site Address: No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C)
TEL : 886-3-271-0188 / FAX : 886-3-271-0190
http://www.atl-lab.com.tw/e-index.htm

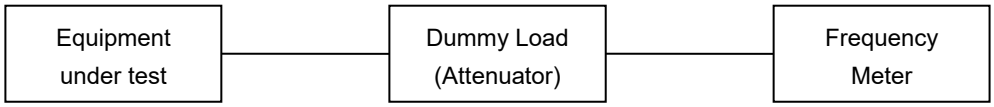
3 Measurement Procedure

3.1. Frequency Error Measurement

■ **Limit**

Frequency Tolerance≤ 50 ppm.

■ **Test Setup**



■ **Measuring Equipment Conditions**

(1) Use a frequency counter that has sensitivity of -20 dBm or better or a spectrum analyzer that has synthesized local oscillator.

(2) Accuracy of the frequency counter shall be one tenth of the tolerance specified for EUT or less(e.g. $5x10^{-6}$ or less)

(3) Attenuation of the attenuator shall be adjusted to give the optimum operation input level to the frequency meter in order to avoid the effect from the amplitude fluctuation of measurement wave.

(4) When measuring burst waves, use the pulse measuring function of the counter and set the gate open time to a value that enables the measurement though entire period of burst as long as possible.

■ **Conditions of Equipment under Test**

(1) Set the EUT to the test frequency and transmit RF signal.

(2) The modulation state is “continuous wave without modulation” by stopping spread spectrum in principle. But, if it is not possible, it shall be “continuous burst wave without modulation”.

■ **Measuring Operation Procedures**

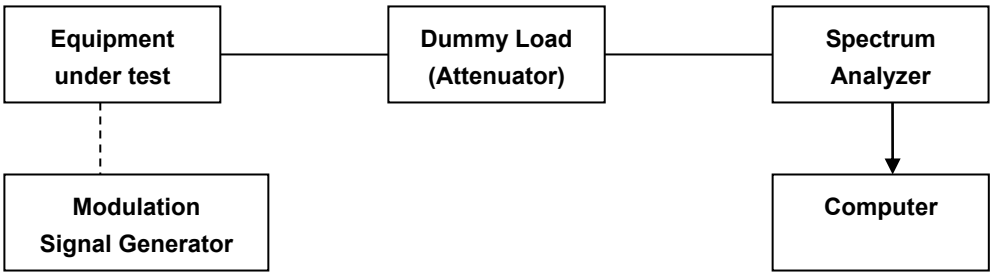
In case of burst waves, the measurement shall be done for enough time(e.g. covering 20 or more of burst waves) in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

3.2. Occupied Bandwidth Measurement

■ **Limit**

Max. Occupied Bandwidth: 26 MHz.

■ **Test Setup**



■ **Measuring Equipment Conditions**

Spectrum Analyzer Setting

SPAN : 200 MHz

RBW : 300 kHz

VBW : 300 kHz

Sweep Time : AUTO (Minimum time to ensure measurement accuracy.)

Data Points : 401 points or more

Indication mode : Max hold

Detection Mode : Positive Peak

Storage Mode : Normal

Y-axis Scale : 10 dB/Div.

Reference Level : Enough level for maximum dynamic range

■ **Conditions of Equipment under Test**

Set to testing frequency and modulate using standard encoding test signals.

■ **Measuring Operation Procedures**

(1) Configure the setting of the spectrum analyzer to 3.3(1).

(2) After repeating sweeps until no display changes are found, import the values of all the data points as array variables of the computer.

(3) Convent the dB value into the antilog of the power dimension (i.e. mW) for all the data.

(4) Find the total power of the all the data and record as “Total Power” in mW.

(5) Add power to the minimum frequency data in order and find the value of the limiting data point that is 0.5 % of the “Total Power”. Convert the limiting point into a frequency and record as the “lower limit” frequency.

(6) Add power to the maximum frequency data in order and find the value of the limiting data point that is 0.5 % of the “Total Power”. Convert the limiting point into a frequency and record as the “upper limit” frequency.

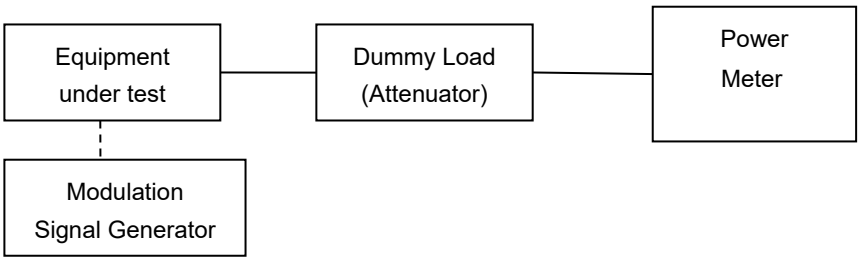
3.3. Antenna Power (Conducted) Measurement

■ **Limit**

RF Output Power ≤ 10 mW.

RF Output Power Tolerance ≤ -80 % ~ +20 %.

■ **Test Setup**



■ **Measuring Equipment Conditions**

a.Use power meter to measure burst power.

■ **Conditions of Equipment under Test**

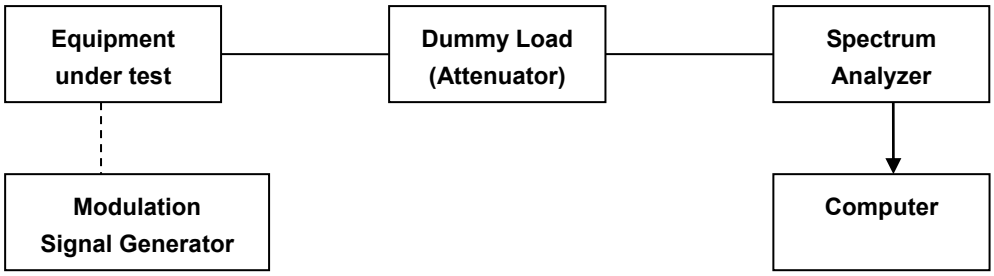
a.Connect the high frequency power meter to the output of the attenuator and measure the total power (without bandwidth limitation)

3.4. Unwanted Emission Strength Measurement

■ **Limit**

Frequency (MHz)	Limit (μW/MHz)
Under 2387 MHz	≤ 2.5
2387-2400 MHz	≤ 25
2483.5-2496.5 MHz	≤ 25
2496.5 - 12.5 GHz	≤ 2.5

■ **Test Setup**



Note 1: The computer is used for calculating the mean value of amplitude levels.

■ **Measuring Equipment Conditions**

(1) The setting of the spectrum analyzer during spurious searches are as follow:

Sweep Bandwidth:	Starts spurious searches form the smallest possible frequencies to more then 5 times the carrier frequencies..
Resolution bandwidth:	1 MHz
Video bandwidth:	1 MHz
Y-axis scale:	10 dB/Div.
Input level:	Maximum dynamic range value
Sweep time:	Minimum amount of time to ensure measurement accuracy.
Sweep mode:	Continuous mode
Data Points:	Over 400 points
Detection mode:	Positive peak
Display mode:	Maximum hold

(2) The setting of spectrum analyzer while conducting spurious amplitude measurement are as follows:

Center Frequency:	Acquired spurious frequency in (1)
Frequency sweep width:	0 MHz
Resolution bandwidth:	1 MHz
Video bandwidth:	Same as Resolution bandwidth Note: take into account that the requirement limits the power in a bandwidth of 1 MHz. If the measurement is carried out with a bandwidth of 100 kHz (for frequencies below 1 GHz), the limit shall be reduced with 10 dB
Y-axis scale:	10 dB/Div
Input level:	Choose input level within the linear range of the SA mixer (so that no additional spurious are generated by the mixer).
Sweep mode:	Minimum amount of time to ensure measurement accuracy.
Data Points:	Over 400 points
Sweep mode:	Single sweep
Detection mode:	Sample (BIN-Width <<RBW, so that all spurious emissions are captured). [BIN-width is the frequency difference between 2 adjacent sample points on the display.]

■ **Conditions of Equipment under Test**

Set the testing frequency and testing spread codes and modulate using standard encoding test signals. Choose a frequency / channel according to specified range (Low, Middle and High).
Note: If the spurious limit is specified with the EIRP value, the effective (maximum) antenna gain shall be taken into account.

■ **Measuring Operation Procedures**

(1) Configure the settings of the spectrum analyzer to 8.3(1) and search for spurious frequencies by sweeping. Do not conduct the measurements in 8.3(2) if the amplitude value of the acquired spurious frequencies meets the standard value.

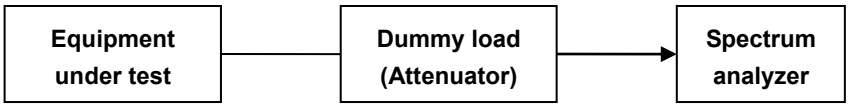
(2) If the acquired spurious amplitude value exceeds the standard value, narrow the sweep Bandwidth, in the order of 100 MHz, 10 MHz, and 1 MHz, to increase the frequency accuracy of the spectrum analyzer and accurately find the spurious frequency. Configure the spectrum analyzer to the settings in 8.3(2), find the average of the spurious amplitude values (in the case of burst waves, the average values are within the respective burst and set this as the measured value. Averaging can be done by summing up the power (display must give the linear power in uW) according to 8.3(2) and dividing by the amount of points. Correction on the equivalent noise bandwidth shall be necessary (if not realized automatically).

3.5. Secondarily Emitted Radio Wave Strength Measurement

■ **Limit**

Frequency (MHz)	Limit (nW)
Under 1 GHz	≤ 4
1 - 12.5 GHz	≤ 20

■ **Test Setup**



■ **Measuring Equipment Conditions**

(1) Set the attenuation of the attenuator to under 20 dB because the subject for measurement is of low level.

(2) Set the spectrum analyzer as follow:

Frequency sweep width:	See 7.5 Measuring Operation Procedures
Resolution bandwidth:	A value determined by the specified dynamic range and the sweep time. (e.g. 30 kHz for 8 GHz sweep width and 30 second sweep time.).
Video bandwidth:	Approximately the same bandwidth as resolution bandwidth.
Y-axis scale:	10 dB/Div
Input level:	0 dB, if possible.
Sweep mode:	Single sweep
Detection mode:	Positive peak

■ **Conditions of Equipment under Test**

Set the EUT to receiver the test frequency with forced continuous receiving control.

■ **Measuring Operation Procedures**

Sweep the spectrum analyzer from a low frequency to a frequency of 3 times if the carrier or over (e.g. 10 MHz to about 8 GHz) and measure the collateral radio emissions.

3.6. Radio Interference Prevention Capability Measurement

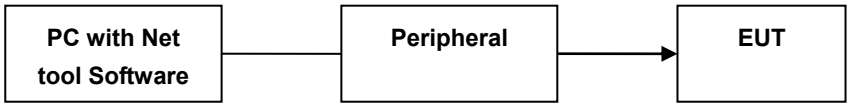
■ **Limit**

Identification code ≧ 48 bits

■ **Measuring Id Code Software**

MAC IP List: MAC Scan

■ **Test Setup**



■ **Measuring Operation Procedures**

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes form EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes form the counterpart. b . Check if communication is normal. c. Transmit the signals other than predetermined ID codes form the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.7. Construction Protection Confirmation Method

■ **Limit**

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

4 Test Results

Mode 1: LE Continuous TX mode

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION

Peak Antenna Gain	-1.200	dBi
Declaration Output Power	4.613	mW
Declaration Output Power	6.640	dBm
EIRP	5.440	dBm
Input Power Voltage	5	Vdc

Tested Circit Insertion Loss		1	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Frequency equal to the transmission rate of the modulation signal	
0	MHz

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

Comprehensive operation test : In order to receive constant voltage from DC power supply, power supply voltage examines only by usual state voltage.

2.1 TEST Results (Normal Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	Limit
Channel Number		Ch.	0	19	39	-----	
Reading Frequency		MHz	2401.9835	2439.9850	2479.9832	-----	
Frequency Tolerance		ppm	-6.87	-6.15	-6.77	**PASS**	-50≦x≦+50
Occupied Bandwidth		MHz	1.2243	1.2250	1.2285	**PASS**	≦26 MHz
RF Output Power		mW	4.613	4.130	4.375	**PASS**	≦10 mW
RF Output Power Tolerance		%	0.000	-10.470	-5.159	**PASS**	-80≦x≦+20
EIRP		dBm	5.440	4.960	5.210		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.004	0.003	0.003	**PASS**	≦2.5uW/MHz
		MHz	2382.300	2382.300	2363.400	-----	
	2387-2400MHz	μW/MHz	1.284	0.004	0.003	**PASS**	≦25uW/MHz
		MHz	2400.000	2399.584	2399.701	-----	
	2483.5-2496.5MHz	μW/MHz	0.003	0.003	0.015	**PASS**	≦25uW/MHz
		MHz	2487.205	2483.682	2483.552	-----	
	2496.5 - 12.5GHz	μW/MHz	0.045	0.033	0.015	**PASS**	≦2.5uW/MHz
		MHz	4807.000	4877.000	4957.000	-----	
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.001	0.001	0.001	**PASS**	≦ 4 nW
		MHz	730.340	932.100	716.760	-----	
	1 - 12.5GHz	nW	0.018	0.028	0.022	**PASS**	≦ 20 nW
		MHz	5750.000	2426.000	4795.000	-----	
Interference Prevention Function		-----	good			**PASS**	

Mode 2: 2LE Continuous TX mode

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION

Peak Antenna Gain	-1.200	dBi
Declaration Output Power	4.130	mW
Declaration Output Power	6.160	dBm
EIRP	4.960	dBm
Input Power Voltage	5	Vdc

Tested Circit Insertion Loss		1	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Frequency equal to the transmission rate of the modulation signal	
0	MHz

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

Comprehensive operation test : In order to receive constant voltage from DC power supply, power supply voltage examines only by usual state voltage.

2.1 TEST Results (Normal Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	Limit
Channel Number		Ch.	0	19	39	-----	
Reading Frequency		MHz	2401.9829	2439.9826	2479.9814	-----	
Frequency Tolerance		ppm	-7.12	-7.13	-7.50	**PASS**	-50≦x≦+50
Occupied Bandwidth		MHz	2.1749	2.1686	2.1678	**PASS**	≦26 MHz
RF Output Power		mW	4.130	3.981	3.828	**PASS**	≦10 mW
RF Output Power Tolerance		%	0.000	-3.608	-7.312	**PASS**	-80≦x≦+20
EIRP		dBm	4.960	4.800	4.630		
Unwanted Emission Strength (TX1)	Under 2387MHz	µW/MHz	0.004	0.003	0.002	**PASS**	≦2.5uW/MHz
		MHz	2382.300	2363.400	2384.600	-----	
	2387-2400MHz	µW/MHz	0.068	0.003	0.003	**PASS**	≦25uW/MHz
		MHz	2400.000	2399.766	2399.987	-----	
	2483.5-2496.5MHz	µW/MHz	0.003	0.003	0.041	**PASS**	≦25uW/MHz
		MHz	2484.475	2495.317	2483.500	-----	
	2496.5 - 12.5GHz	µW/MHz	0.047	0.031	0.016	**PASS**	≦2.5uW/MHz
		MHz	4807.000	4877.000	4957.000	-----	
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.001	0.001	0.001	**PASS**	≦ 4 nW
		MHz	797.270	777.870	796.300	-----	
	1 - 12.5GHz	nW	0.022	0.020	0.020	**PASS**	≦ 20 nW
		MHz	3197.000	3197.000	4795.000	-----	
Interference Prevention Function		-----	good			**PASS**	

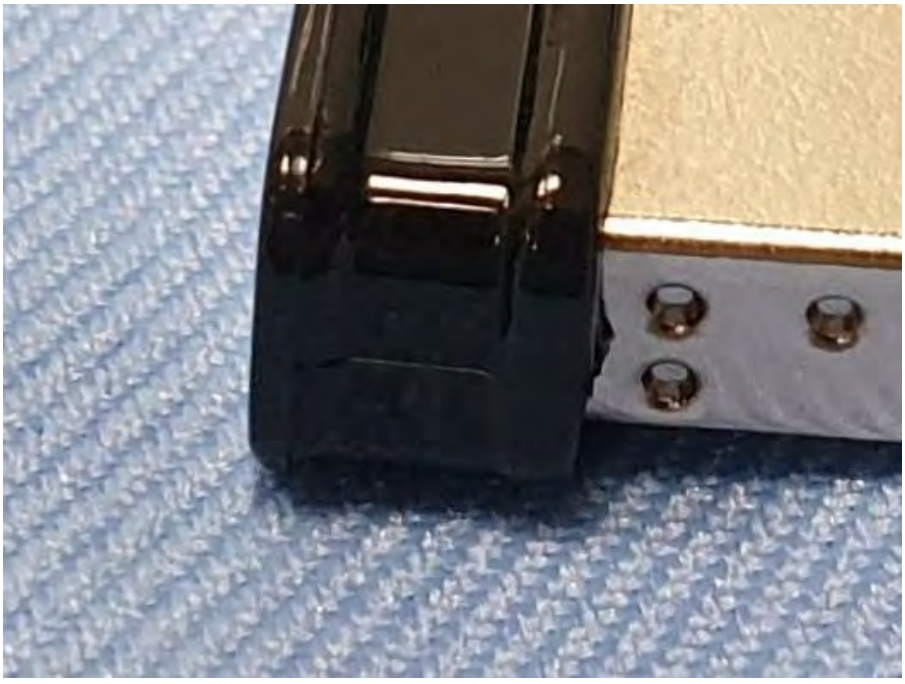
■ **Antenna List**

Antenna			Gain Specification			Notes (Cable or Others)
No	Type	Model Name	Max Gain (dBi)	Attenuation (dB)	Net Gain (dBi)	
1	PIFA	ALX19M-052AA3	-1.2	0	0	Polarization(Horizontal+Vertical)

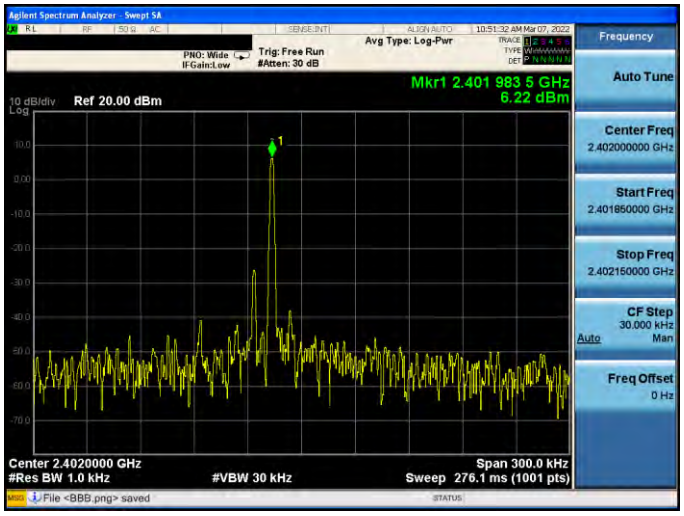
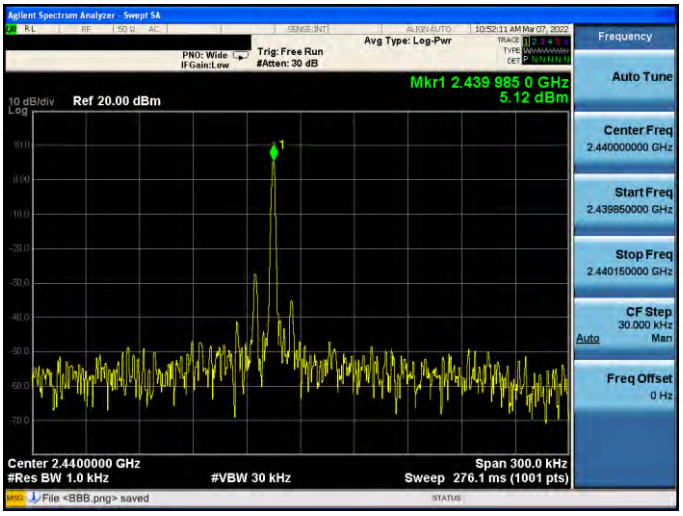
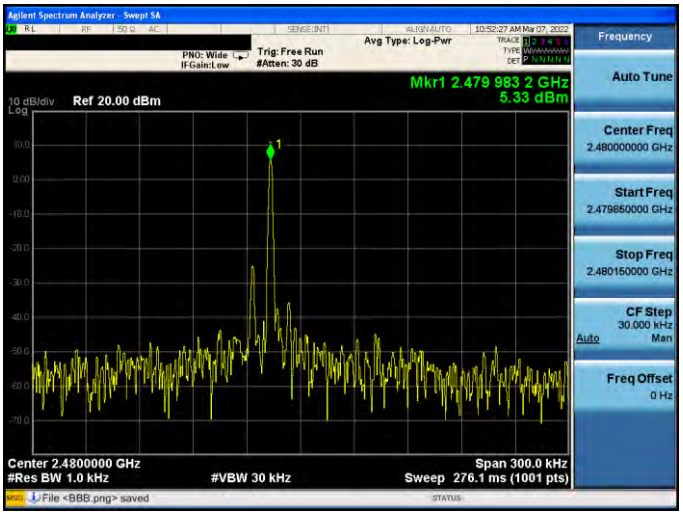
■ **Construction Protection Confirmation Method**

Confirmation Method

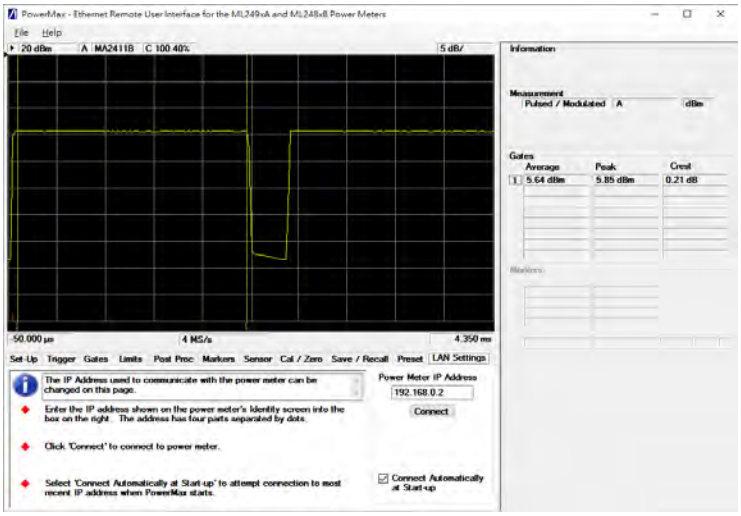
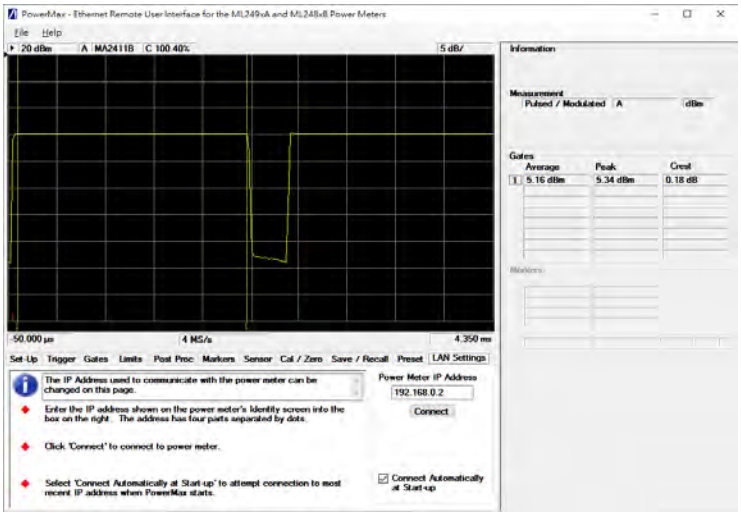
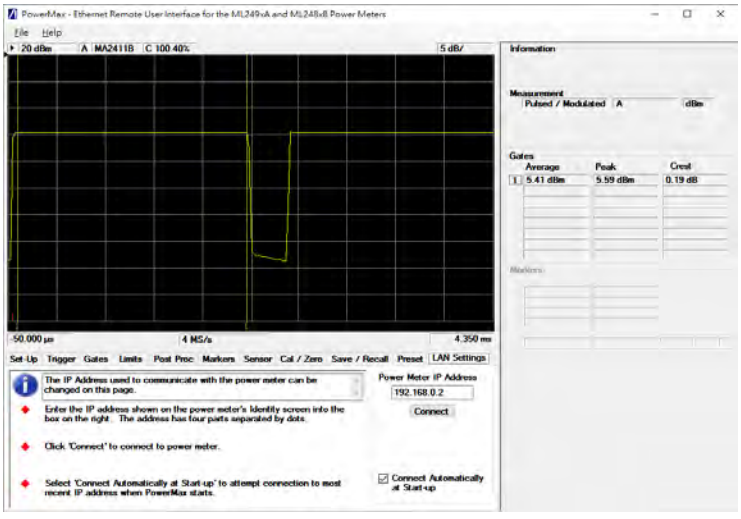
☐	1. Sealed with special screws (indicate the special screws used in Exterior View Drawings, and also attach its technical drawings of such screws).
■	2. Plastic chassis is being welded using ultrasonic waves.
☐	3. Chassis is glued using a special adhesive.
☐	4. Metal covers are spot-fused (indicate the fused points in Exterior View Drawings).
☐	5. Cover is specially interlocked (indicate the interlocked part in Exterior View Drawings).
☐	6. Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	7. Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	8. Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	9. Other ( )

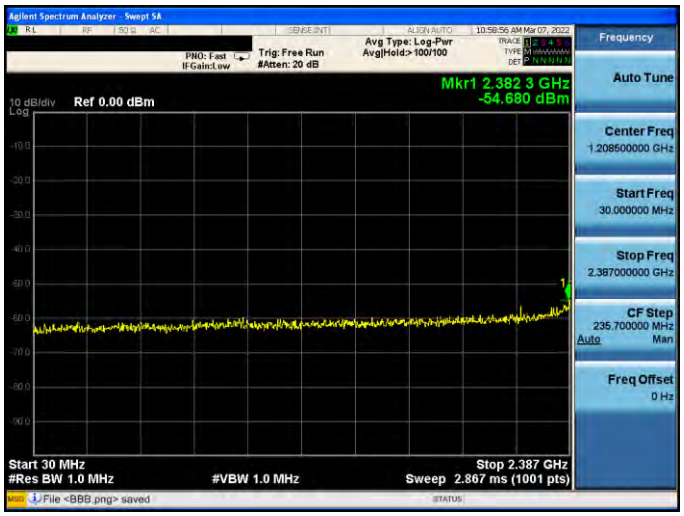
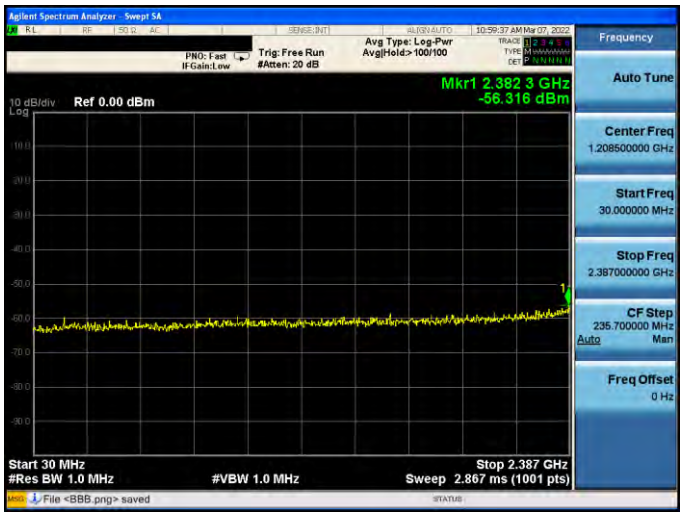
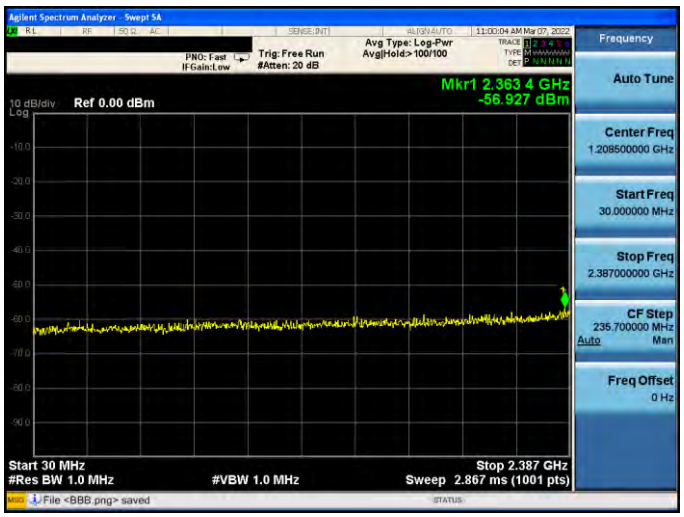
Photo


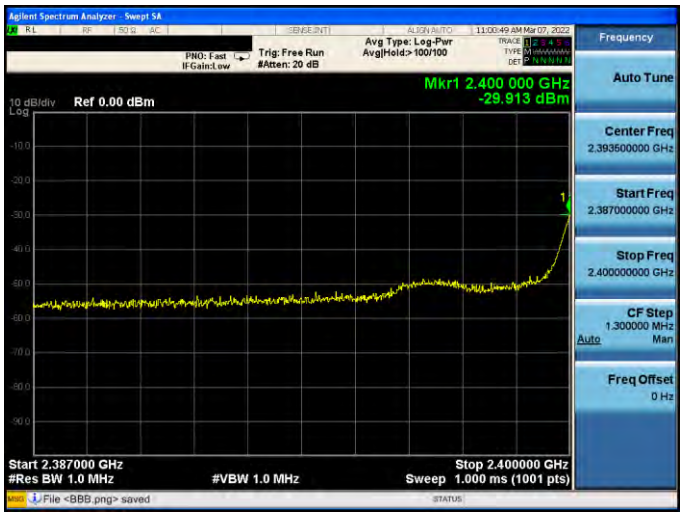
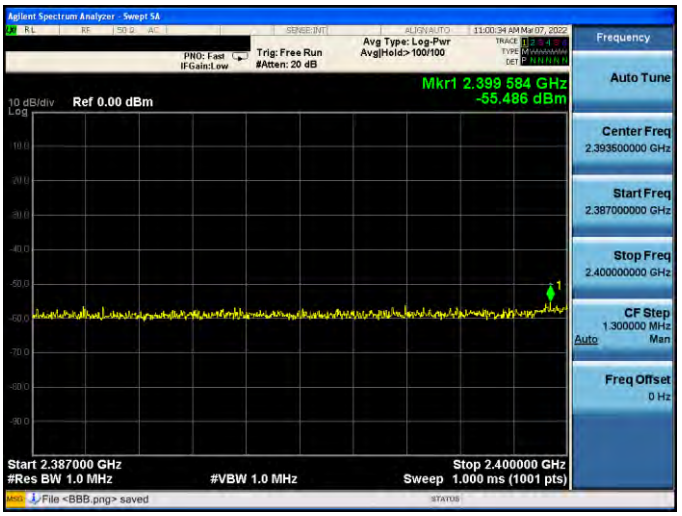
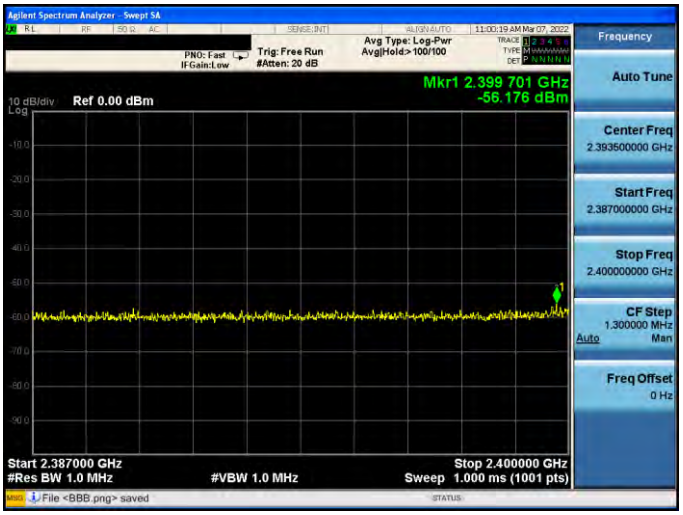
■ Test Graphs

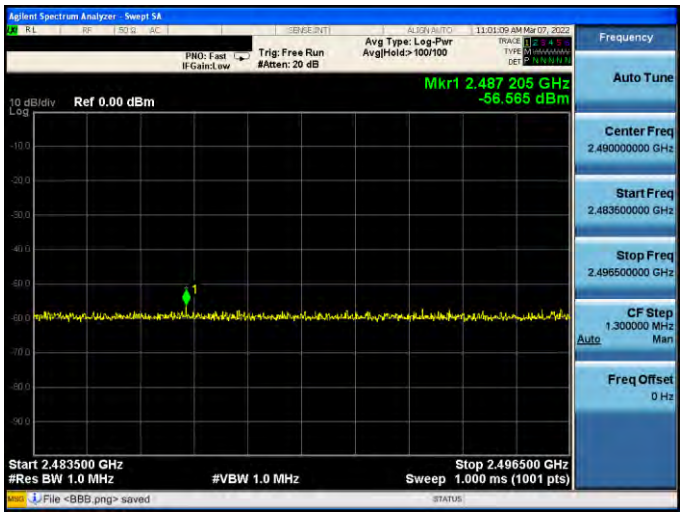
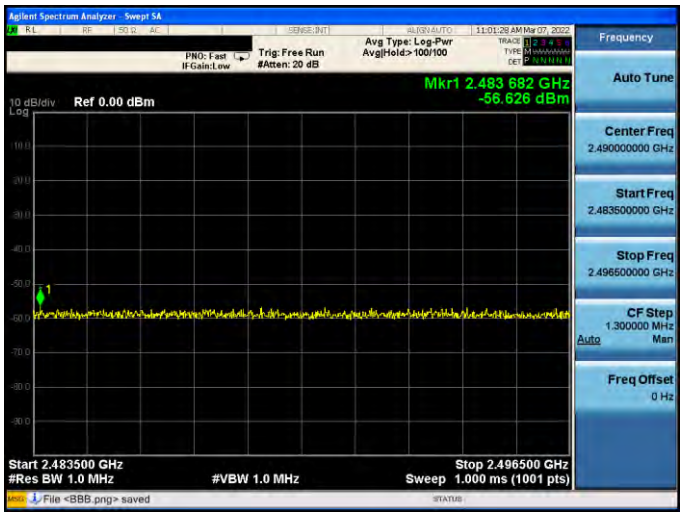
Mode 1	
Frequency Error Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

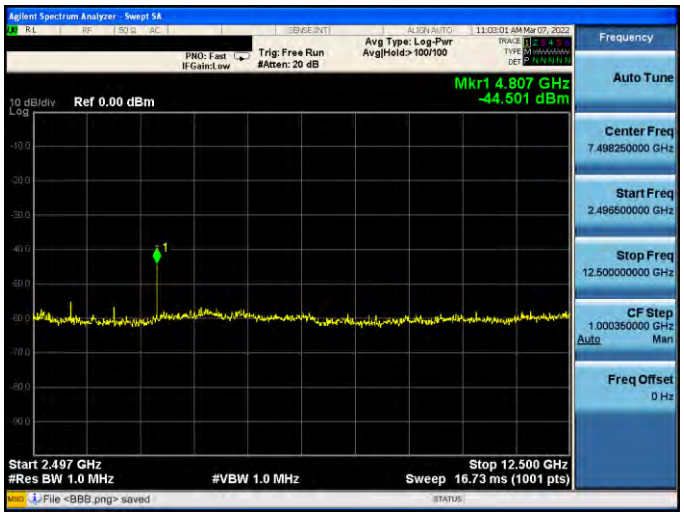
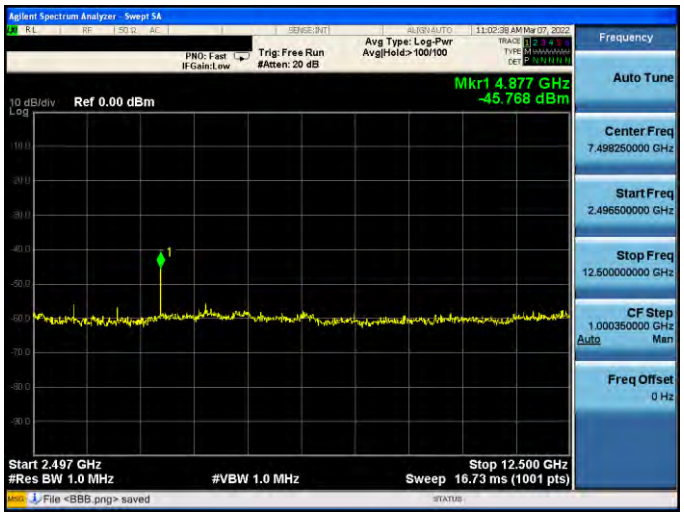
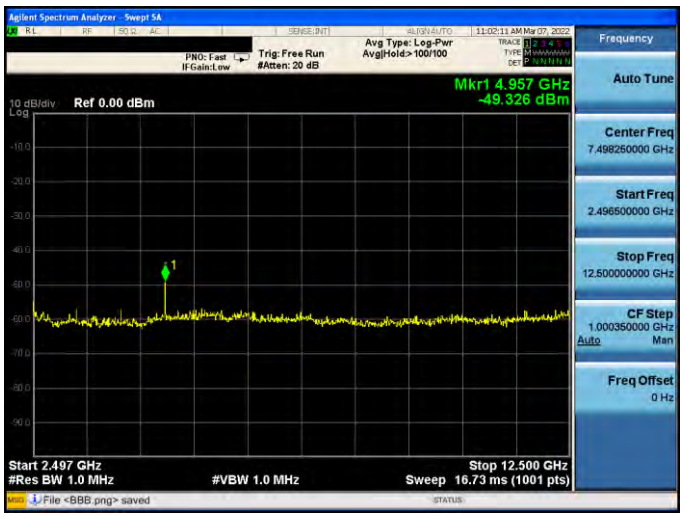
Mode 1	
Occupied Bandwidth Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

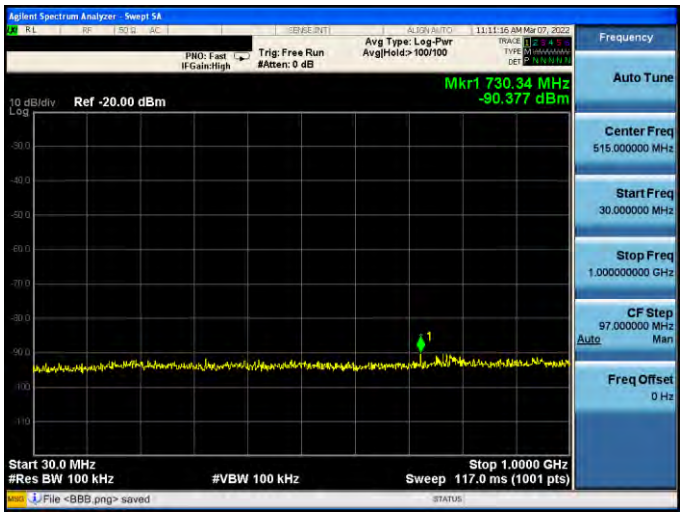
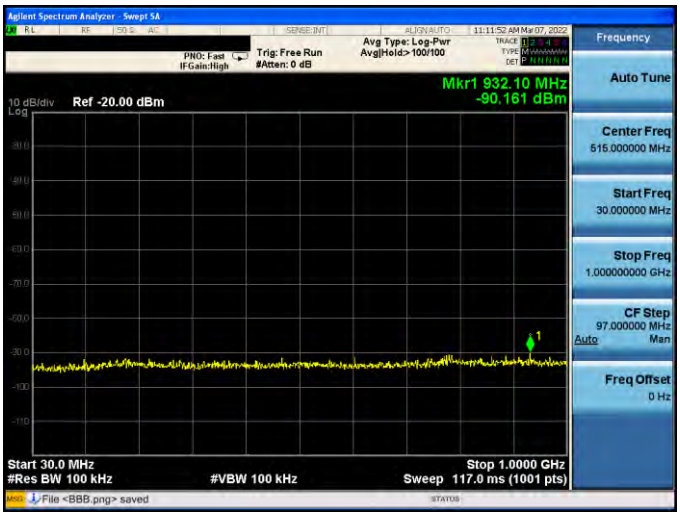
Mode 1	
Antenna Power (Conducted) Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

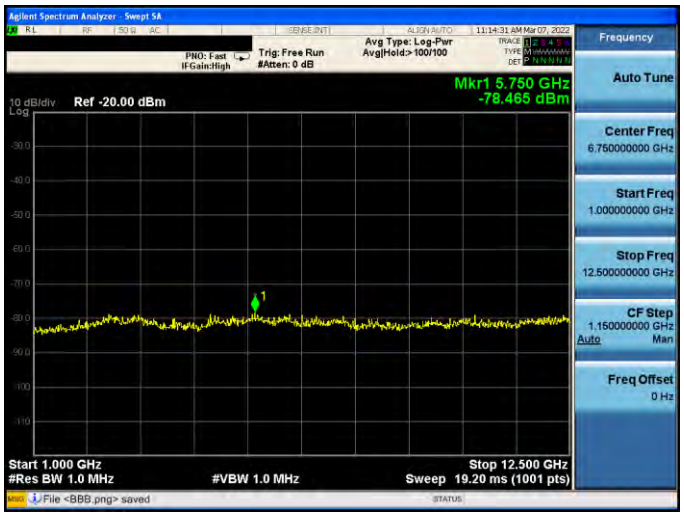
Mode 1	
Unwanted Emission Strength Measurement	
30 MHz – 2387 MHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

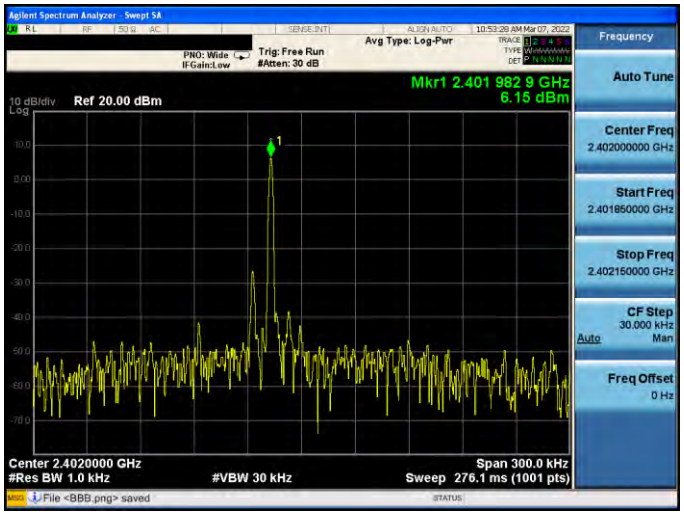
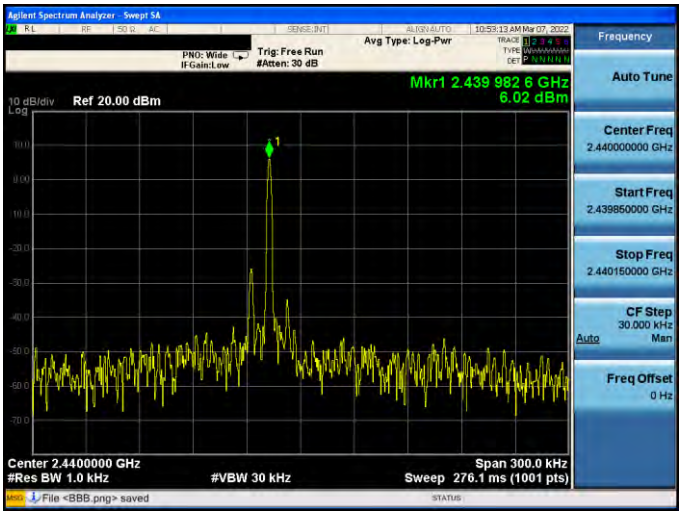
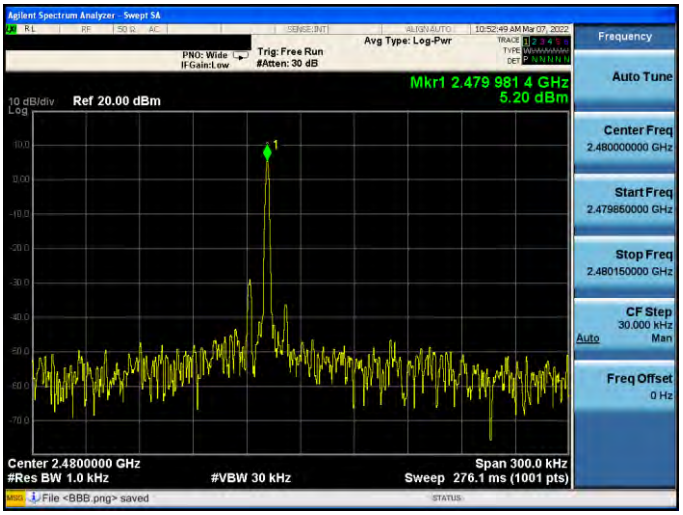
Mode 1	
Unwanted Emission Strength Measurement	
2387 MHz – 2400 MHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

Mode 1	
Unwanted Emission Strength Measurement	
2483.5 MHz – 2496.5 MHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

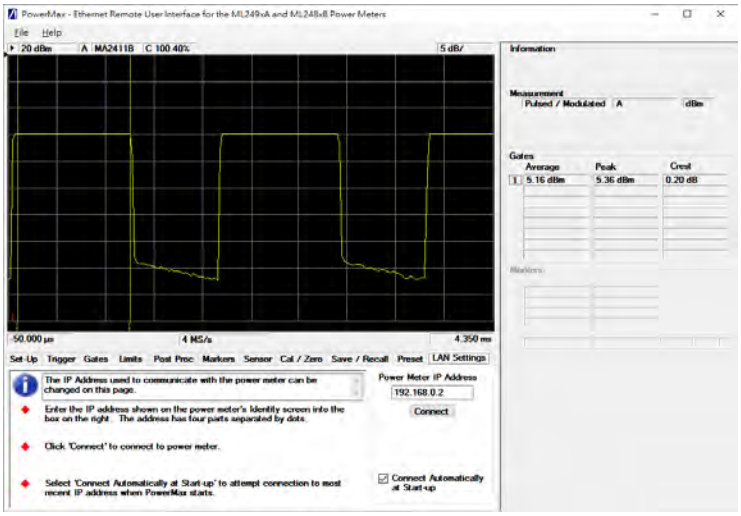
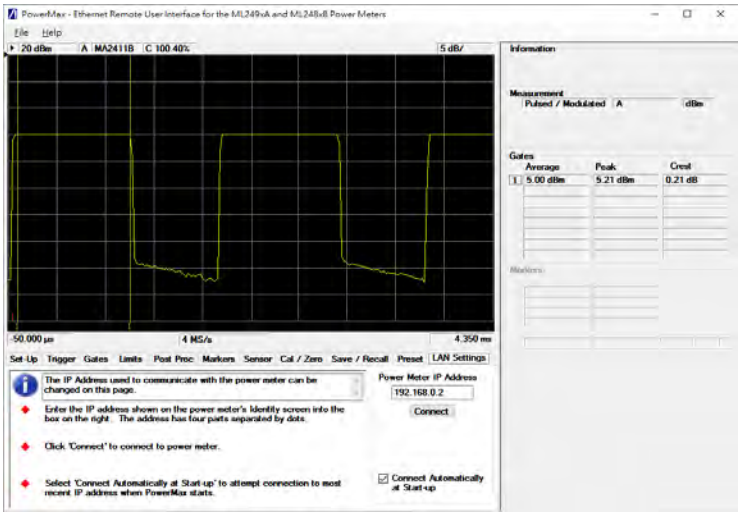
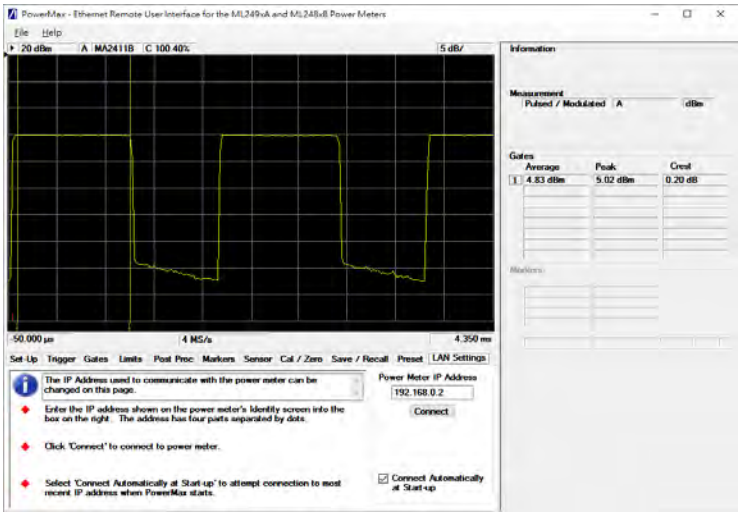
Mode 1	
Unwanted Emission Strength Measurement	
2496.5 MHz – 12.5 GHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

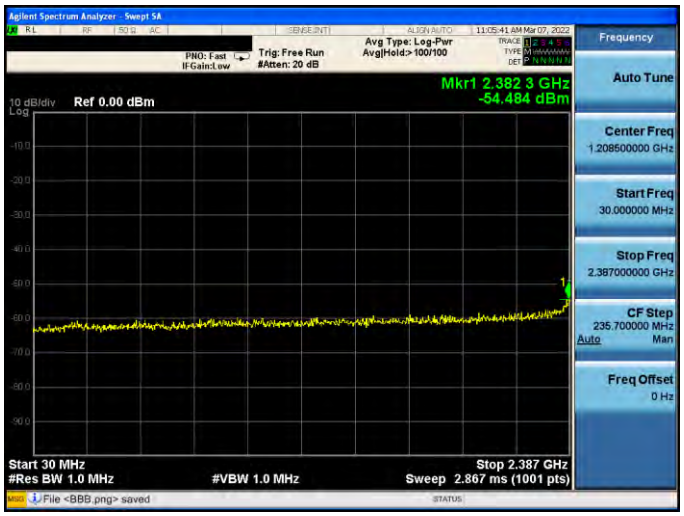
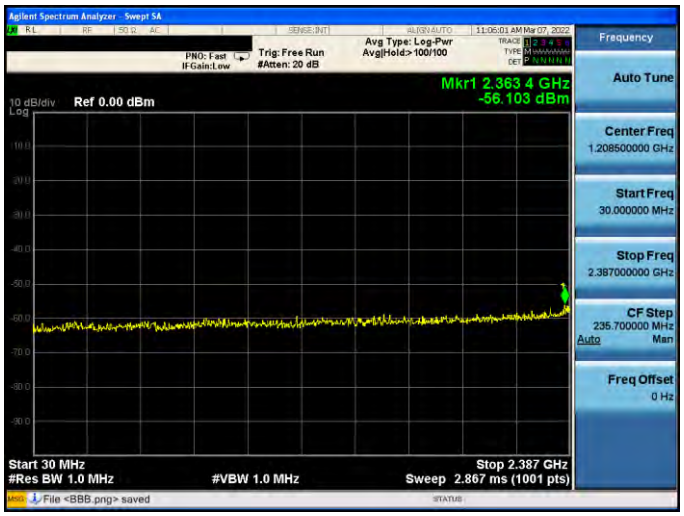
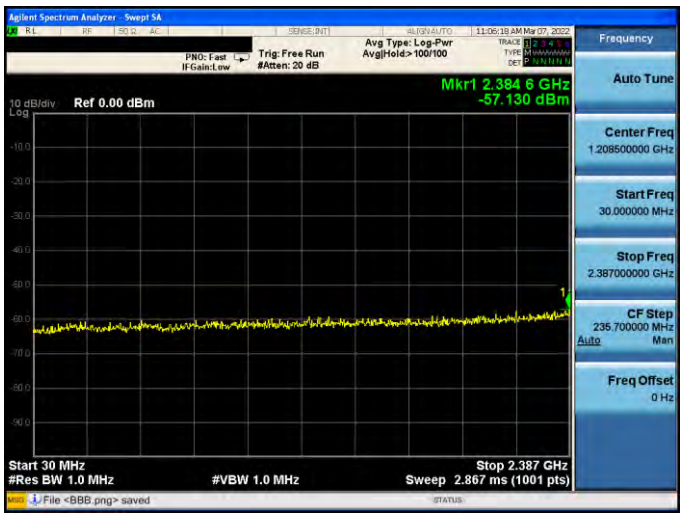
Mode 1	
Secondarily Emitted Radio Wave Strength Measurement	
30 MHz – 1 GHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

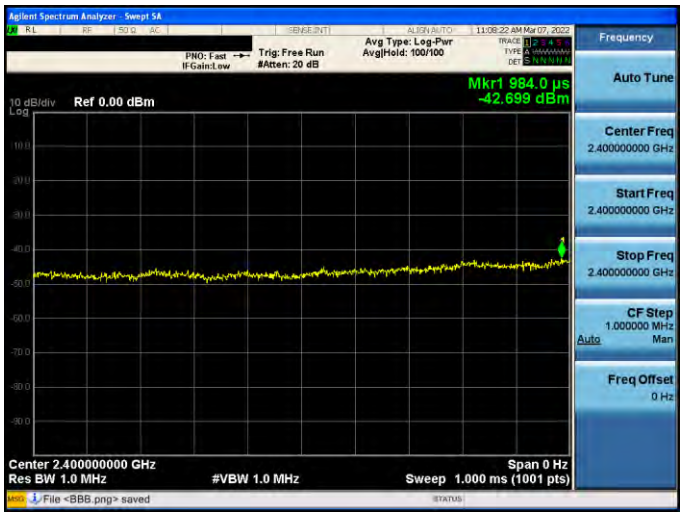
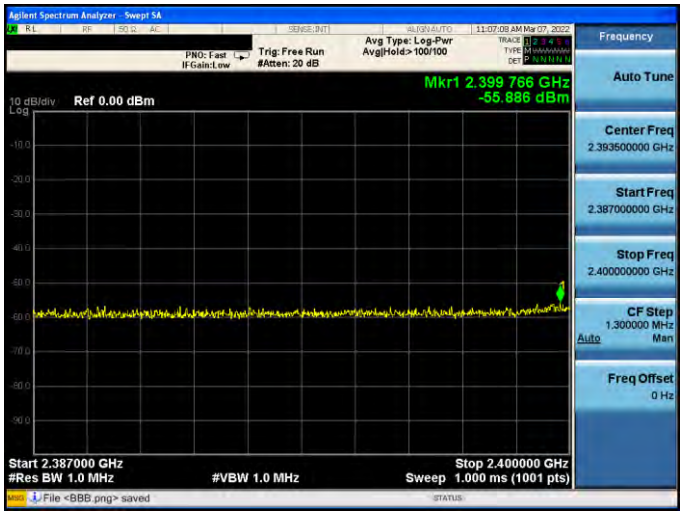
Mode 1	
Secondarily Emitted Radio Wave Strength Measurement	
1 GHz – 12.5 GHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

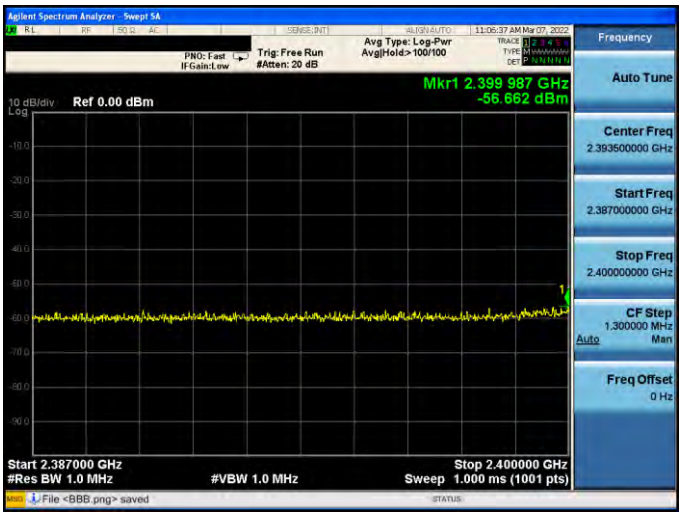
Mode 2	
Frequency Error Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

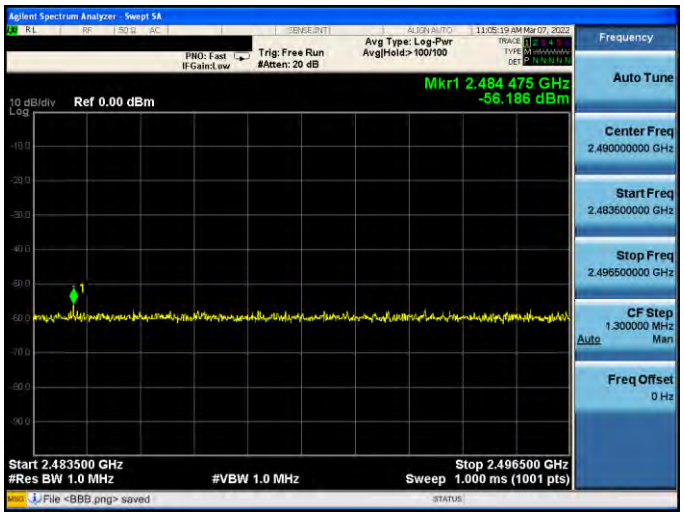
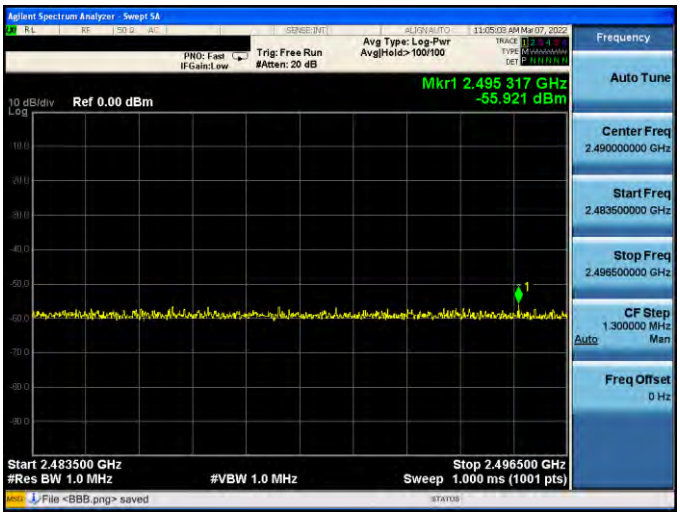
Mode 2	
Occupied Bandwidth Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

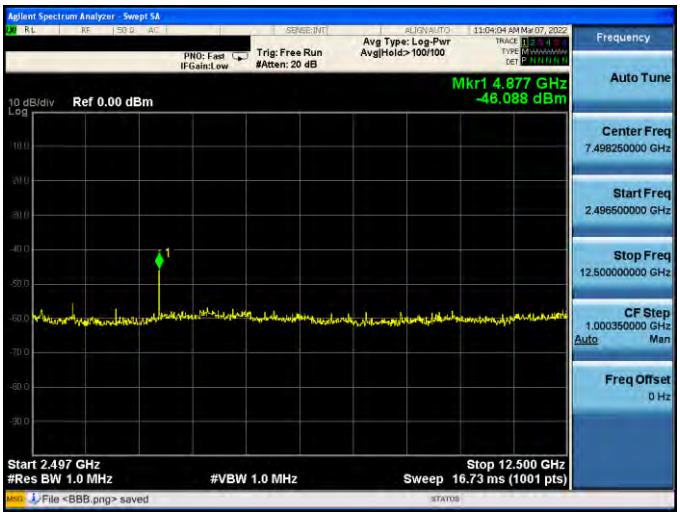
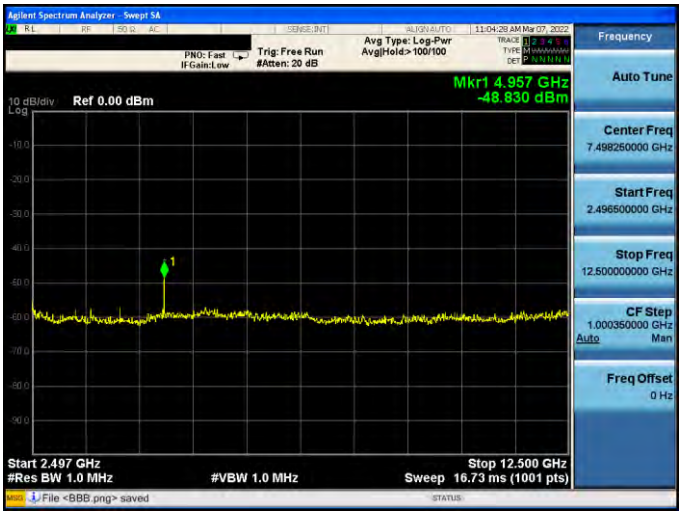
Mode 2	
Antenna Power (Conducted) Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

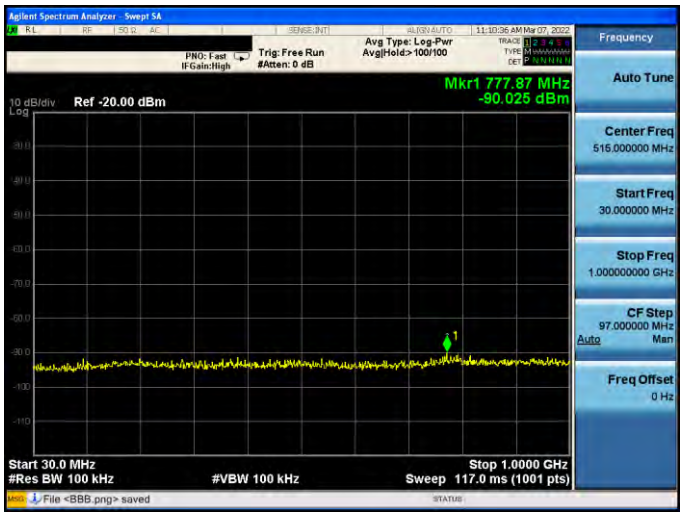
Mode 2	
Unwanted Emission Strength Measurement	
30 MHz – 2387 MHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

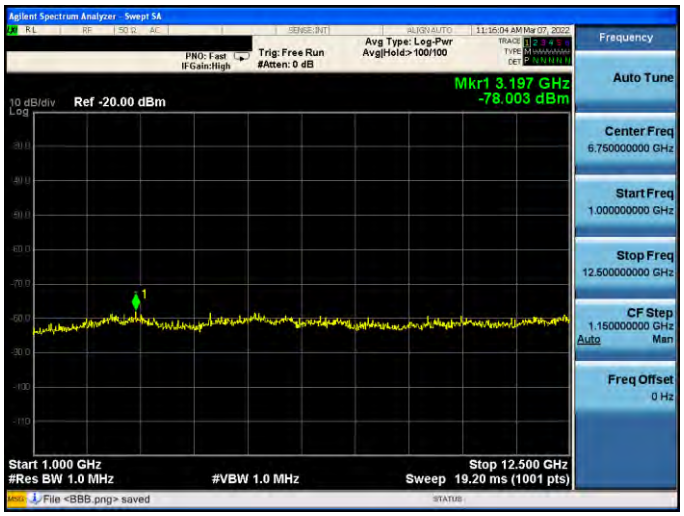
Mode 2	
Unwanted Emission Strength Measurement	
2387 MHz – 2400 MHz	
Normal Voltage Low CH	
Normal Voltage Low CH	
Normal Voltage Middle CH	

Mode 2	
Unwanted Emission Strength Measurement	
2387 MHz – 2400 MHz	
Normal Voltage High CH	

Mode 2	
Unwanted Emission Strength Measurement	
2483.5 MHz – 2496.5 MHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

Mode 2	
Unwanted Emission Strength Measurement	
2496.5 MHz – 12.5 GHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

Mode 2	
Secondarily Emitted Radio Wave Strength Measurement	
30 MHz – 1 GHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	

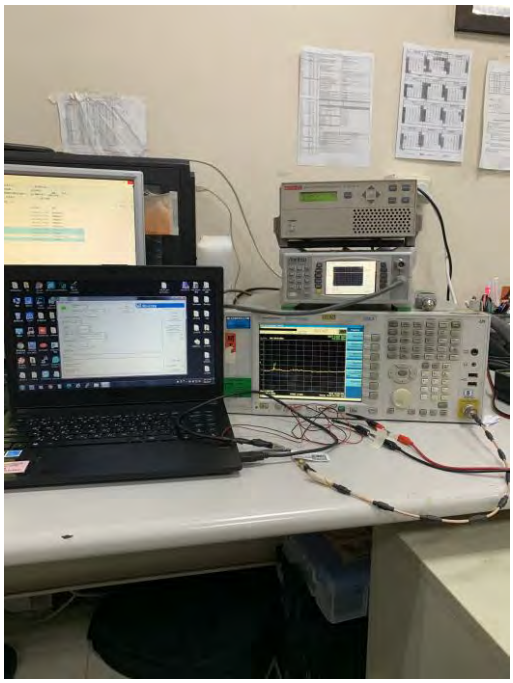
Mode 2	
Secondarily Emitted Radio Wave Strength Measurement	
1 GHz – 12.5 GHz	
Normal Voltage Low CH	
Normal Voltage Middle CH	

Mode 2	
Secondarily Emitted Radio Wave Strength Measurement	
1 GHz – 12.5 GHz	
Normal Voltage High CH	

--- END---

Appendix A. Test Setup Photographs

Description:	Test Circuit Photo



Description:	Conducted Measurement Photo