



FCC 47 CFR PART 15 SUBPART C 15.247

TEST REPORT

FOR

Templus Smart Thermometer

Model : TS01

Trade Name : Ecare

Issued to

Ebiologic Technology Co.,Ltd.

**9F., No.33, Ln. 3, Sec. 1, Zhongzheng E. Rd., Tamsui Dist., New Taipei City 25147,
Taiwan**

Issued by

WH Technology Corp.



Open Site		No.120, Ln. 5, Hudong St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
EMC Test Site	Xizhi Office and Lab	7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
Tel.: +886-2-7729-7707 Fax: +886-2- 8648-1311		

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APPENDIX 1 PHOTOS OF TEST CONFIGURATION

PHOTOS OF EUT



1. General Information

Applicant : Ebiologic Technology Co.,Ltd.

Address : 9F., No.33, Ln. 3, Sec. 1, Zhongzheng E. Rd., Tamsui Dist., New Taipei City 25147, Taiwan

Manufacturer : Ebiologic Technology Co.,Ltd.

Address : 9F., No.33, Ln. 3, Sec. 1, Zhongzheng E. Rd., Tamsui Dist., New Taipei City 25147, Taiwan

EUT : Templus Smart Thermometer

Model Name : TS01

Model Differences : N/A

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.4-2014. The said equipment in the configuration described in this report shows the maximum emission levels emanating

FCC part 15 subpart C

Receipt Date : 06/18/2020

Final Test Date : 08/10/2020

Tested By:

Aug. 10, 2020

Date

Bell Wei/ Project Engineer

Aug. 10, 2020

Date

Reviewed by:

Bell Wei / Manager
Designation Number: TW1083



2. Report of Measurements and Examinations

2.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	N/A
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass



3. Test Configuration of Equipment under Test

3.1 Description of the tested samples

EUT Name : Templus Smart Thermometer

Model Number : TS01

FCC ID : 2AZOE-TS01

Receipt Date : 06/18/2020

Input Voltage : DC 3V

Power From : Inside Outside
 PC Battery AC Power Source DC Power Source
 Support Unit PC

Operate Frequency : Refer to the channel list as described below (2.412 ~2.462 GHz)

Modulation Technique : 802.11b : DSSS

Number of Channels : 802.11b : 11

Channel spacing : N/A 5 MHz

Operating Mode : Simplex Half Duplex

Antenna Type : Ceramic Chip Antenna

Antenna gain : 5.22 dBi



3.2 Carrier Frequency of Channels

802.11b (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---



3.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive “QATEST” under XP was executed to keep transmitting and receiving data via Wireless.
- d. The following test modes were performed for test:
 - 802.11b: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz



3.4 TEST Methodology & General Test Procedures

All testing as described bellowed were performed in accordance with ANSI C63.4:2014 and FCC CFR 47 Part 15 Subpart C.

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.4:2014. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

- 1) Putting the EUT on the platform and turning on the EUT (on/off button on the bottom of the EUT).
- 2) Setting test channel described as “Channel setting and operating condition”, and testing channel by channel.
- 3) For the maximum output power measurement, we followed the method of measurement KDB558074 D01.
- 4) For the spurious emission test based on ANSI(2014), at the frequency where below 1GHz used quasi-peak detector mode; where above 1GHz used the peak and average detector mode. IF the peak value may be under average limit, the average mode will not be performed.



3.5 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated emission	±4.11dB
Peak Output Power(conducted)	±1.38dB
Peak Output Power(Radiated)	±1.70dB
Power Spectral Density	±1.39dB
Radiated emission(3m)	±4.11dB
Radiated emission(10m)	±3.89dB

3.6 Description of the Support Equipments

Setup Diagram

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

Peripherals Devices:

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	Notebook	N16P7	NXVGKTA 00175104 2C17200	R33142	Acer	N/A	Unshielded 1.8m
INSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test

Grounding: Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.



4. Test and measurement equipment

4.1 calibration

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2 equipment

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.



TABLELIST OF TEST AND MEASUREMENT EQUIPMENT

Conducted emission					
EMI Test Receiver	R&S	ESHS10	830223/008	2021/08/11	1 Year
Spectrum Analyzer	R&S	FSP3	833387/010	2020/12/19	1 Year
Two-Line V-Network	R&S	NNB-2/16z	98062	2021/08/04	1 Year
Test Cable	N/A	N/A	EMI-3	2021/10/09	1 Year
Measurement Software	AUDIX	e3	V6.101222a	N/A	1 Year
Radiated emission Below 1GHz					
Bilog antenna	Chase	CBL6111A	1546	2021/07/30	1 Year
LOOP Antenna	EMCO	6507	9301-1298	2021/01/08	1 Year
Pre-amplifier	Anritsu	MH648A	M15180	2021/08/11	1 Year
Cable	EMCI	EMCCFD400-NM-NM-7000	180617	2021/08/11	1 Year
Cable	Marvelous Microwave	260260.F141	120A	2021/08/11	1 Year
Receiver	R&S	ESCI3	101131	2021/09/08	1 Year
Measurement Software	AUDIX	e3	V9.160707	N/A	1 Year
Radiated emission Above 1GHz					
Horn antenna	ETS LINDGREN	3117	00114397	2021/04/08	1 Year
Horn antenna	com-power	AH-826	81000	2021/09/16	1 Year
Horn antenna	Schwarzbeck	BBHA9170	#687	2021/06/21	1 Year
Pre-amplifier	EMCI	EMC051845	980108	2020/12/19	1 Year
Pre-amplifier	MITEQ	JS4-1800260 0-30-5A	808329	2021/09/04	1 Year
Pre-amplifier	EMC INSTRUMENT	EMC264035S E	980288	2021/05/06	1 Year
RF CABLE	SUCOFLEX	104PEA	27348/4PEA	2021/06/10	1 Year
RF CABLE	AGILENT	EMC102-KM-KM-3000	160101	2021/08/18	1 Year
RF CABLE	AGILENT	EMC102-KM-KM-600	160102	2021/08/18	1 Year
Spectrum Analyzer	R&S	FSP7	830180/006	2021/04/23	1 Year
Spectrum Analyzer	ADVANTEST	R3182	150900201	2021/02/19	1 Year
Measurement Software	AUDIX	e3	V9.160707	N/A	1 Year

*CALIBRATION INTERVAL OF INSTRUMENTS LISTED ABOVE IS ONE YEAR



5. Antenna Requirements

5.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2 Antenna Construction and Directional Gain

802.11b:

Antenna Type: Ceramic Chip Antenna

Antenna Gain: 5.22 dBi



6. Test of Conducted Emission

6.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2014 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

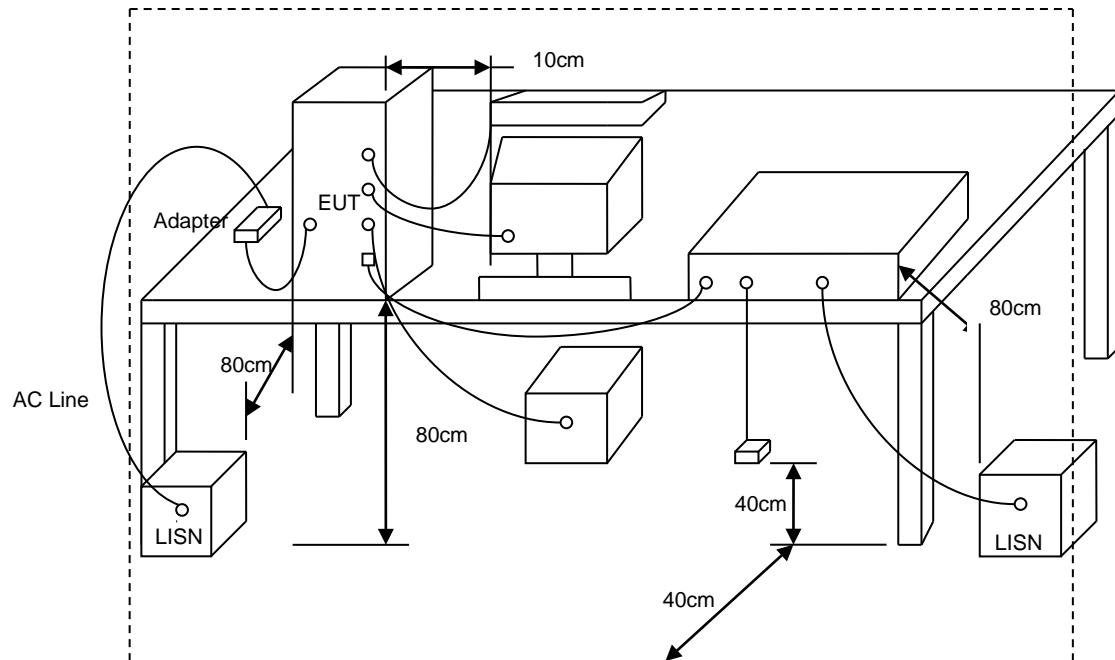
*Decreases with the logarithm of the frequency.

6.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



6.3 Typical Test Setup





6.4 Test Result and Data

This test is not applicable.



7. Test of Radiated Emission

7.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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

7.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the 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 and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than

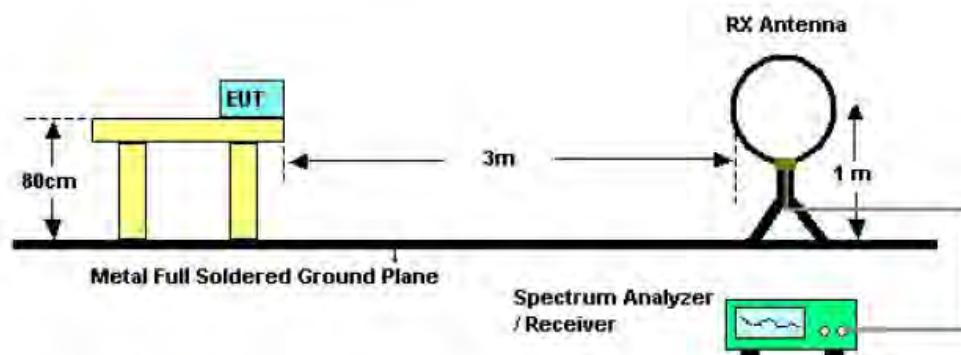


average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

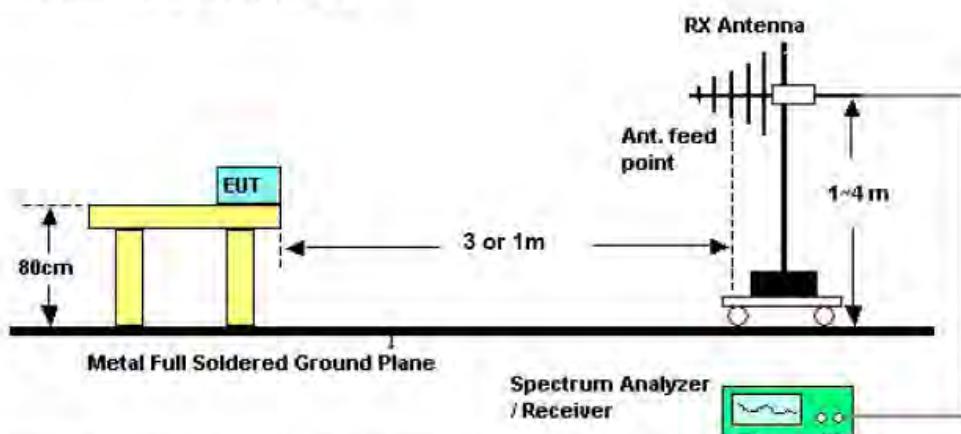
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

7.3 Typical Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);
Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

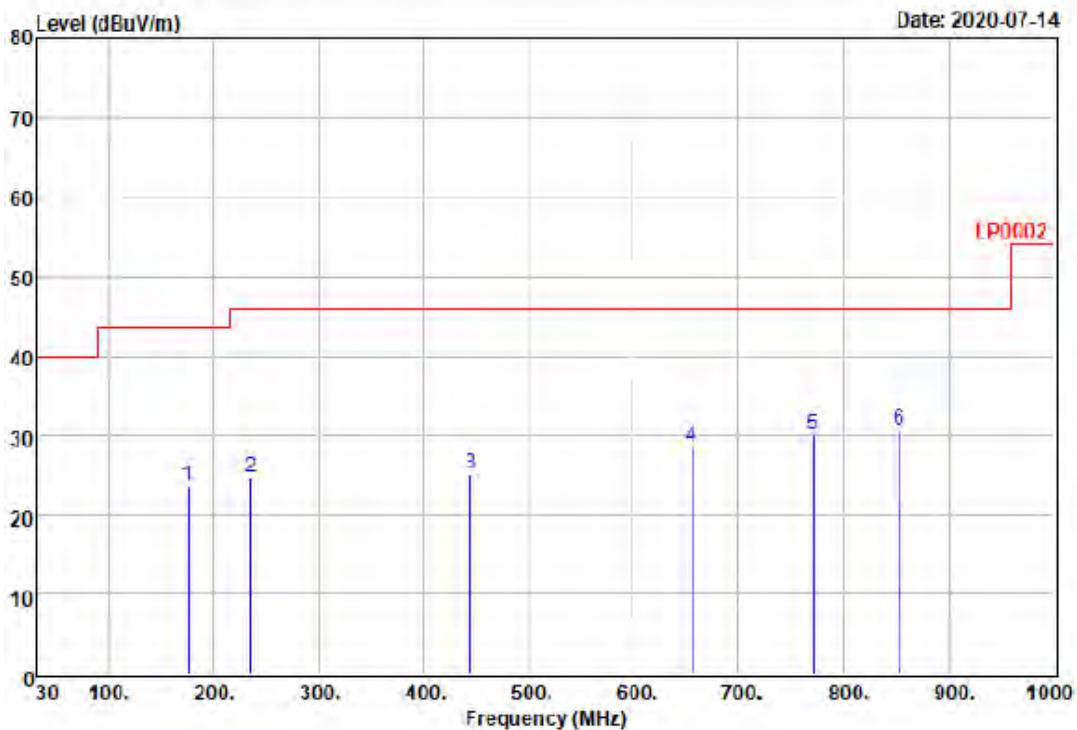


7.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

7.5 Test Result and Data (30MHz ~ 1GHz, worst emissions found)

Power	:	DC 3V	Pol/Phase	:	VERTICAL
Test Mode 1	:	TX b CH11 2462MHz	Temperature	:	35 °C
Memo	:		Humidity	:	60 %



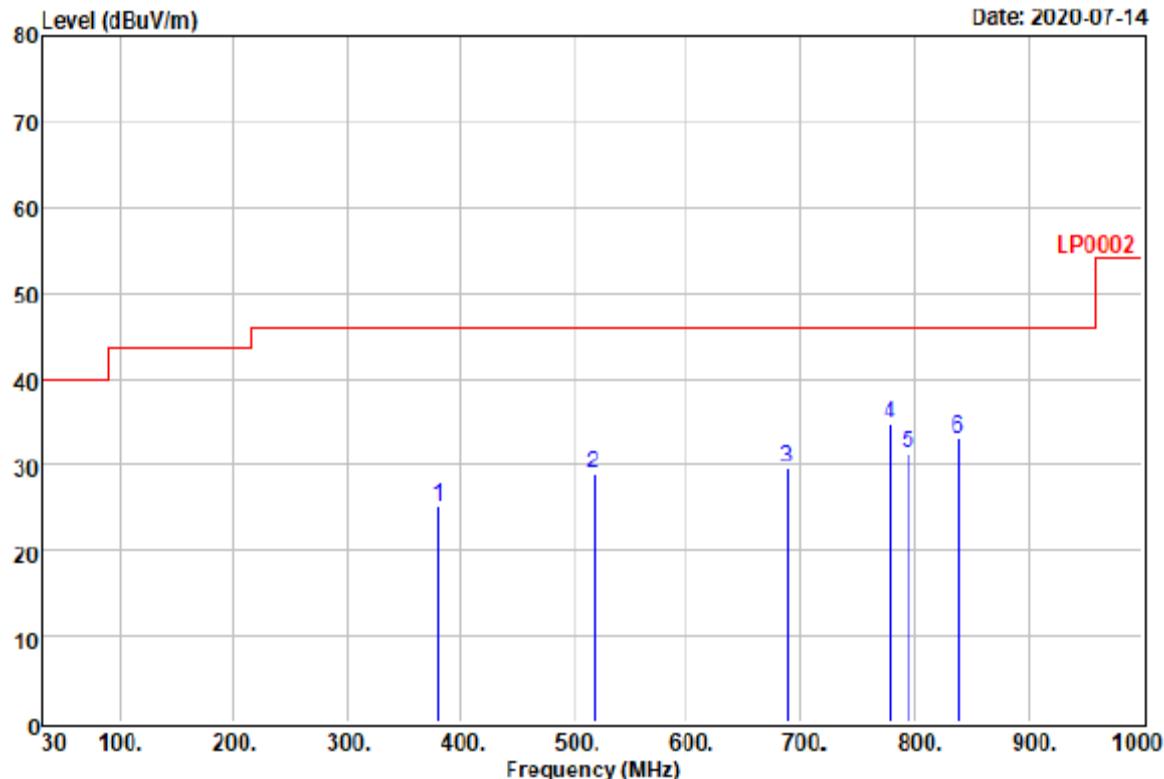
Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit

	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	175.760	42.51	-19.01	23.50	43.50	-20.00	QP
2	235.700	41.00	-16.36	24.64	46.00	-21.36	QP
3	445.410	35.39	-10.23	25.16	46.00	-20.84	QP
4	656.570	34.09	-5.47	28.62	46.00	-17.38	QP
5	770.380	35.48	-5.37	30.11	46.00	-15.89	QP
6	@ 853.490	34.03	-3.43	30.60	46.00	-15.40	QP



Power	:	DC 3V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	TX b CH11 2462MHz	Temperature	:	35 °C
Memo	:		Humidity	:	60 %



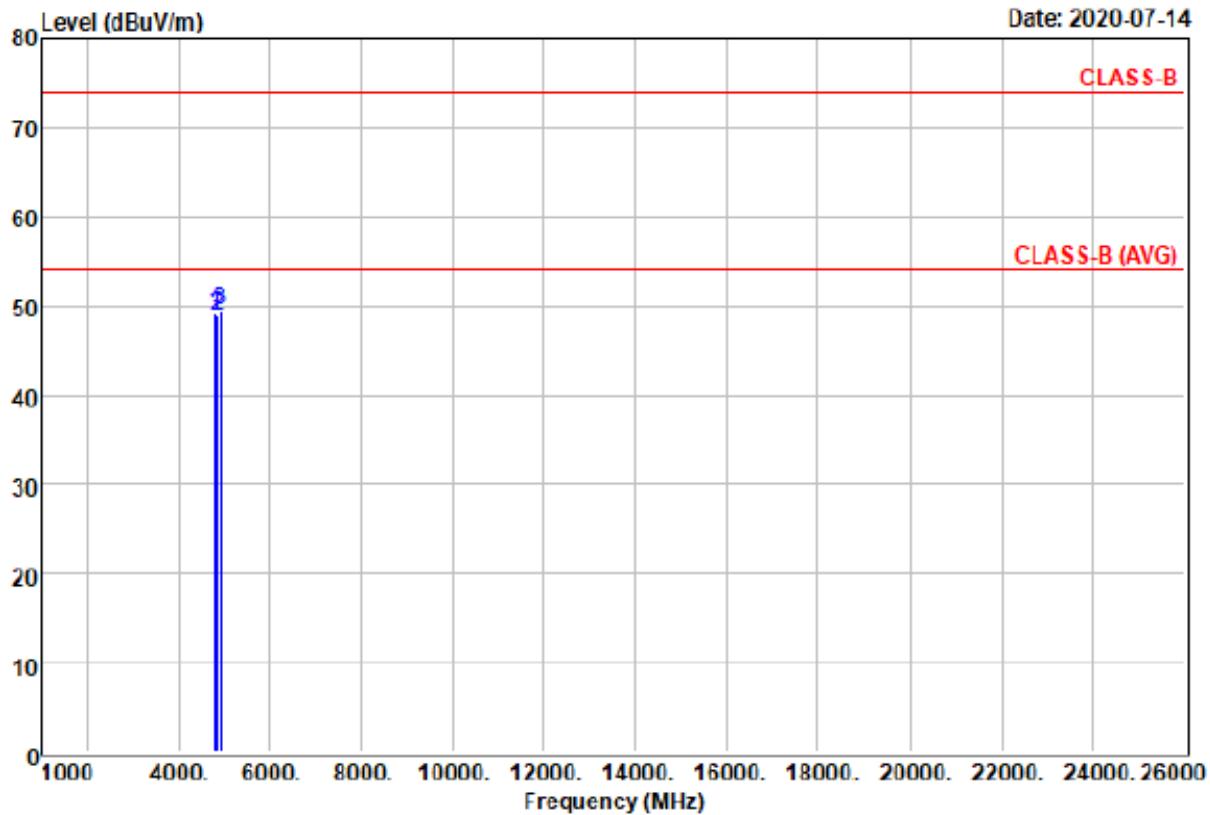
Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

Freq	Read Level	Factor	Level	Limit	Over	Remark
				Line	Line	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	380.570	36.61	-11.44	25.17	46.00	-20.83 QP
2	518.080	37.87	-8.99	28.88	46.00	-17.12 QP
3	688.350	35.57	-5.94	29.63	46.00	-16.37 QP
4 @	778.150	40.07	-5.23	34.84	46.00	-11.16 QP
5	794.930	36.31	-4.95	31.36	46.00	-14.64 QP
6	838.110	36.87	-3.78	33.09	46.00	-12.91 QP



7.6 Test Result and Data (Above 1GHz)

Power	:	DC 3V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	b - CH1 - CH6 - CH11	Temperature	:	35 °C
Memo	:		Humidity	:	60 %

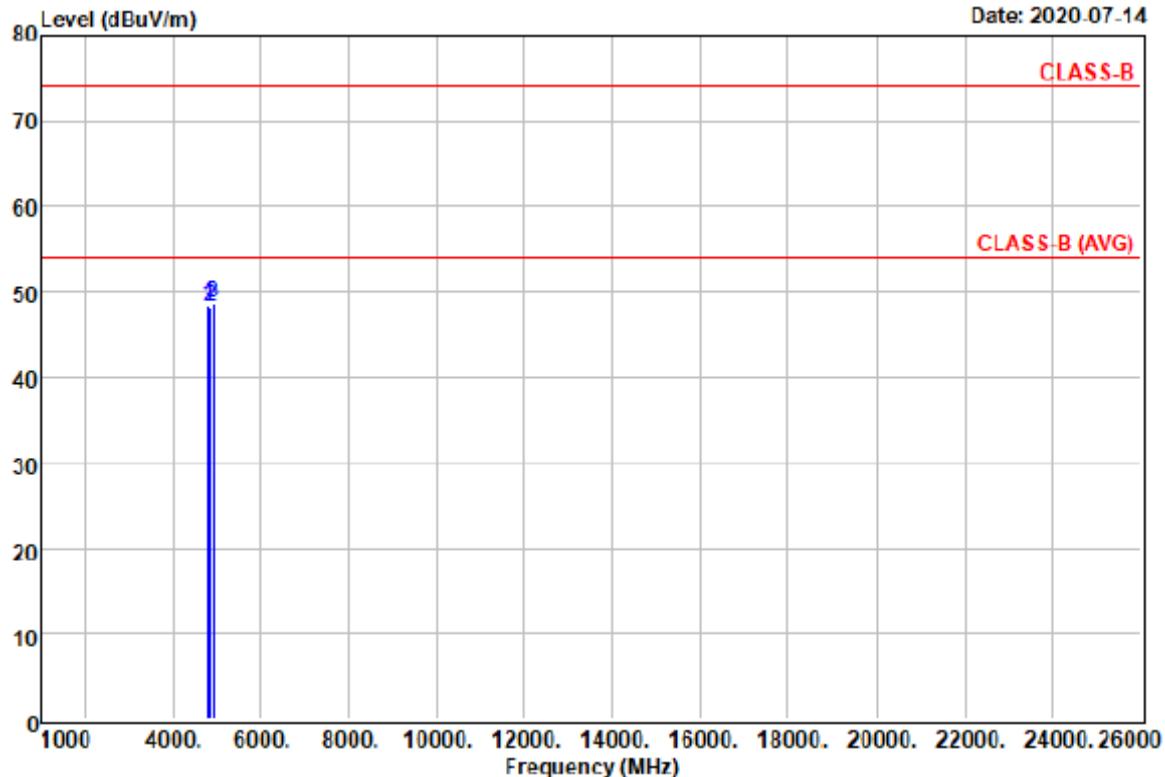


Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

Freq	Read			Limit	Over	Over
	Level	Factor	Level			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 4824.000	54.58	-5.36	49.22	74.00	-24.78	Peak
2 4874.000	54.05	-5.05	49.00	74.00	-25.00	Peak
3 @ 4924.000	54.29	-4.71	49.58	74.00	-24.42	Peak



Power	: DC 3V	Pol/Phase	: VERTICAL
Test Mode 1	: b - CH1 - CH6 - CH11	Temperature	: 35 °C
Memo	:	Humidity	: 60 %

**Remarks**

: 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit

	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4824.000	53.79	-5.36	48.43	74.00	-25.57	Peak
2	4874.000	53.31	-5.05	48.26	74.00	-25.74	Peak
3 @	4924.000	53.40	-4.71	48.69	74.00	-25.31	Peak



8. 6dB Bandwidth Measurement Data

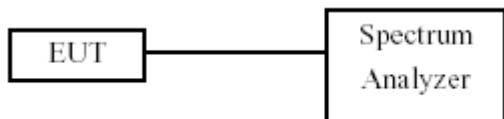
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and $VBW \geq 3 \times RBW$.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout





8.4 Test Result and Data

Test Date: Jul. 14, 2020

Temperature: 25°C

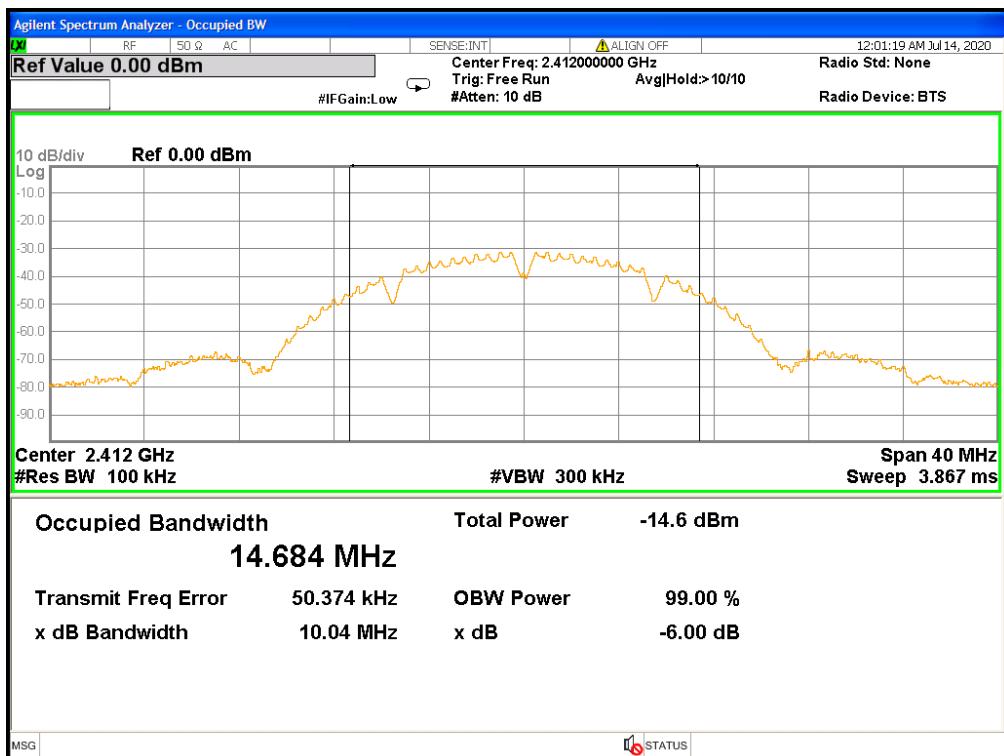
Atmospheric pressure: 1000 hPa

Humidity: 42%

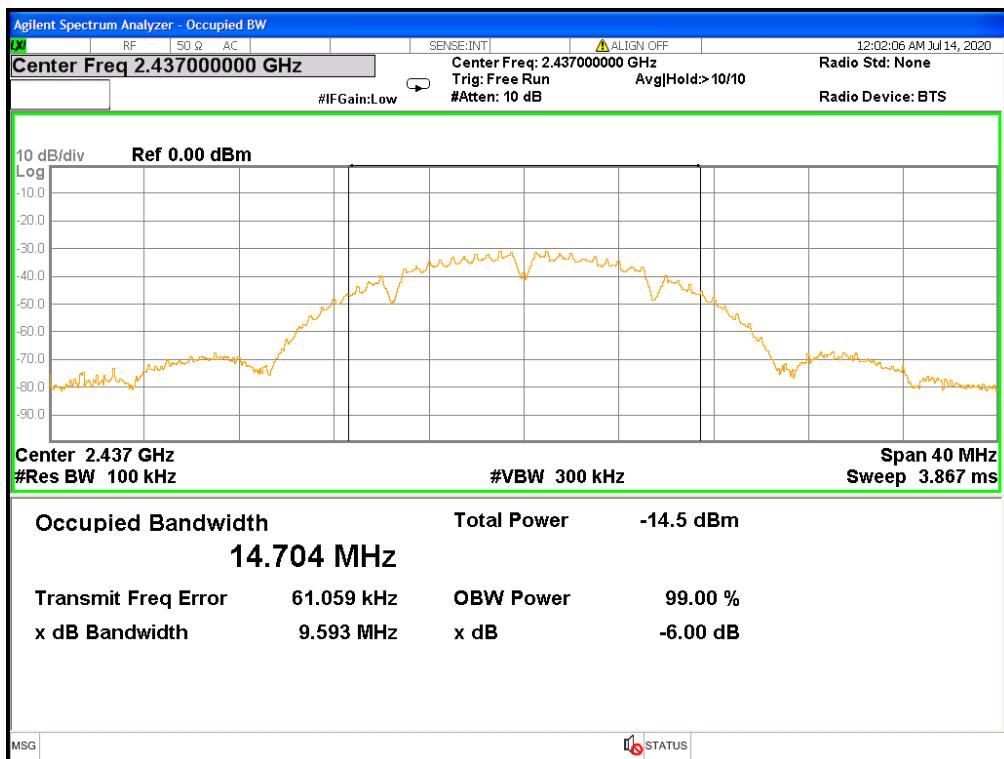
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)
802.11b (11Mbps)	01	2412	10.04
	06	2437	9.593
	11	2462	9.122



Modulation Standard: 802.11b (11Mbps)
Channel: 01

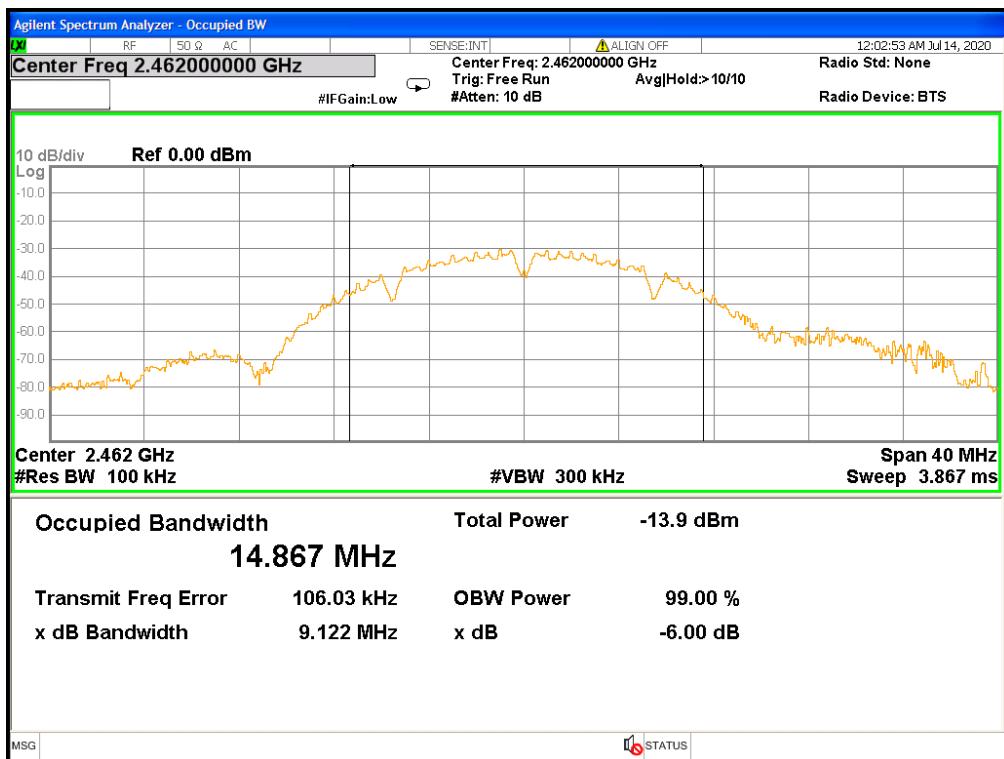


Modulation Standard: 802.11b (11Mbps)
Channel: 06





Modulation Standard: 802.11b (11Mbps)
Channel: 11





9. Maximum Peak Output Power

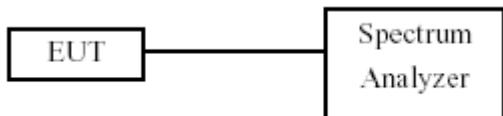
9.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

9.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 1MHz RBW and 3MHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector).
- d. Employ trace averaging in power averaging (RMS) mode over a minimum of 100 traces.
- e. Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges.
- f. The peak and average output power was measured and recorded.

9.3 Test Setup Layout





9.4 Test Result and Data

Test Date: Jul. 10, 2020

Temperature: 25°C

Atmospheric pressure: 1000 hPa

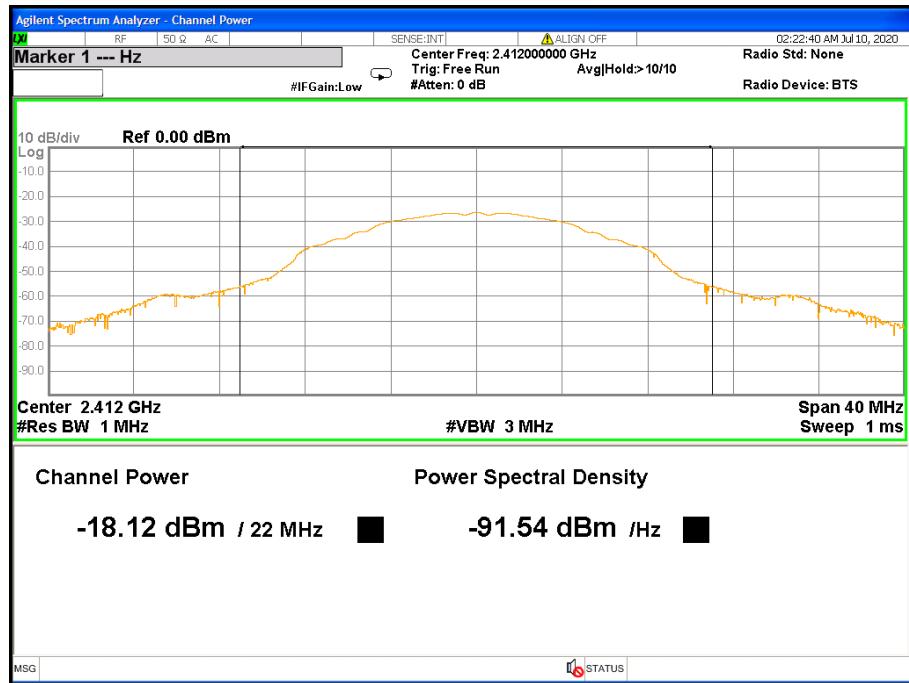
Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output(mW)
802.11b (11Mbps)	01	2412	-18.12	0.0154
	06	2437	-18.71	0.0134
	11	2462	-17.00	0.0199



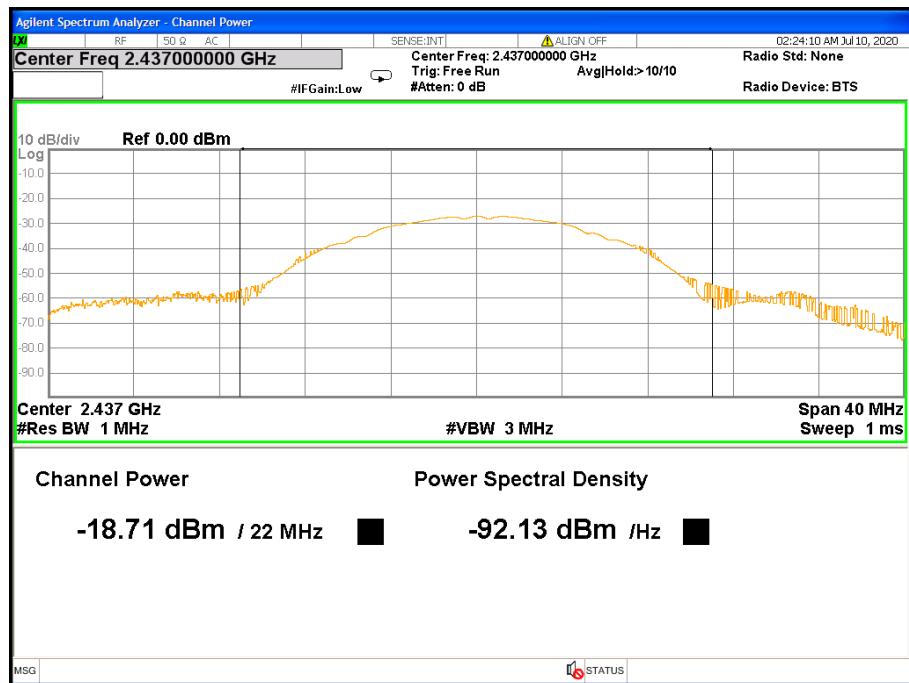
Modulation Standard: 802.11b (11Mbps)

Channel: 01



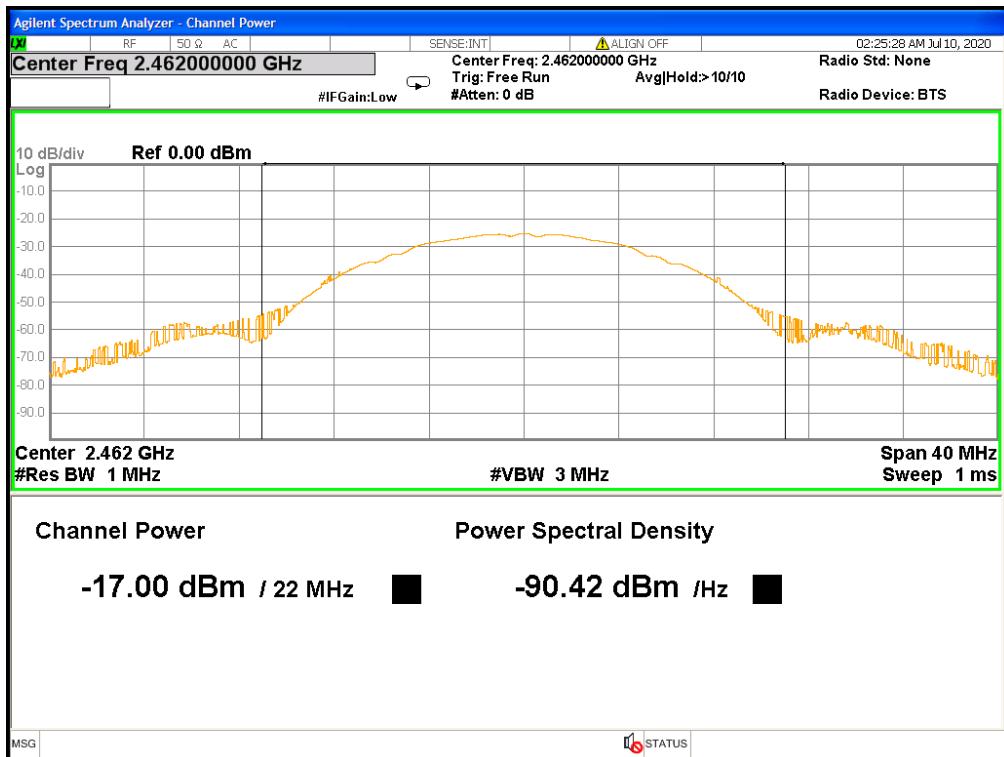
Modulation Standard: 802.11b (11Mbps)

Channel: 06





Modulation Standard: 802.11b (11Mbps)
Channel: 11





10. Power Spectral Density

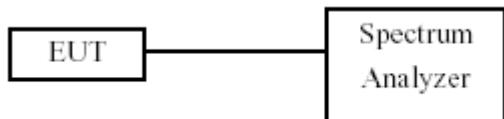
10.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm

10.2 Test Procedures

- g. The transmitter output was connected to spectrum analyzer.
- h. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- i. The power spectral density was measured and recorded.

10.3 Test Setup Layout





10.4 Test Result and Data

Test Date: Jul. 14, 2020

Temperature: 25°C

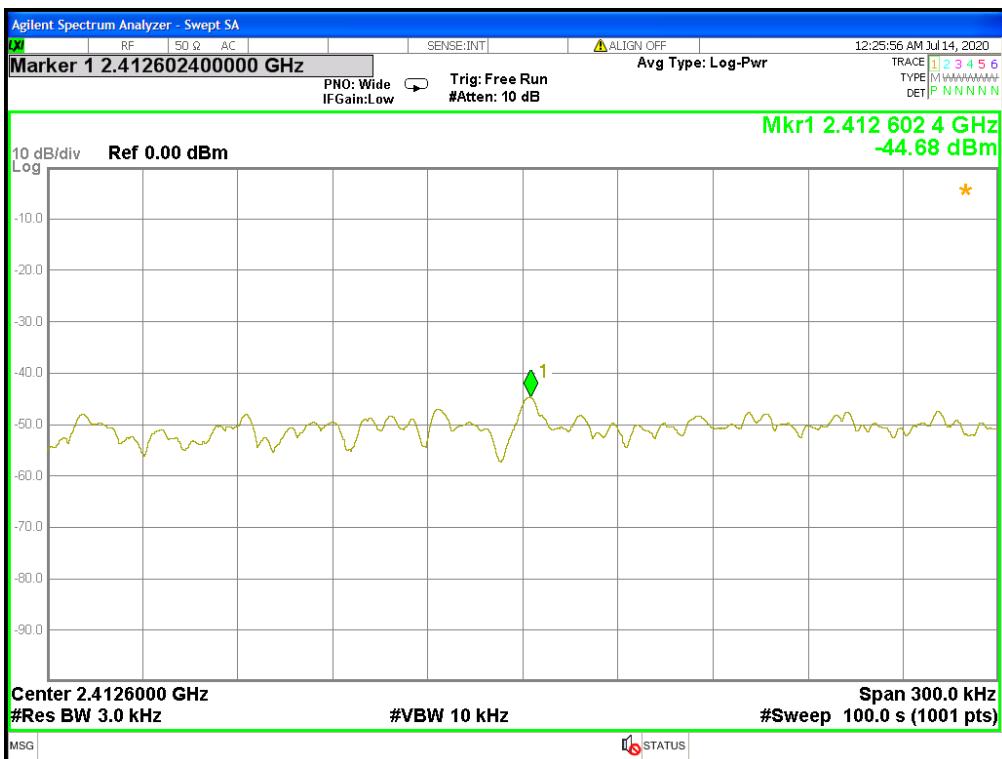
Atmospheric pressure: 1000 hPa

Humidity: 42%

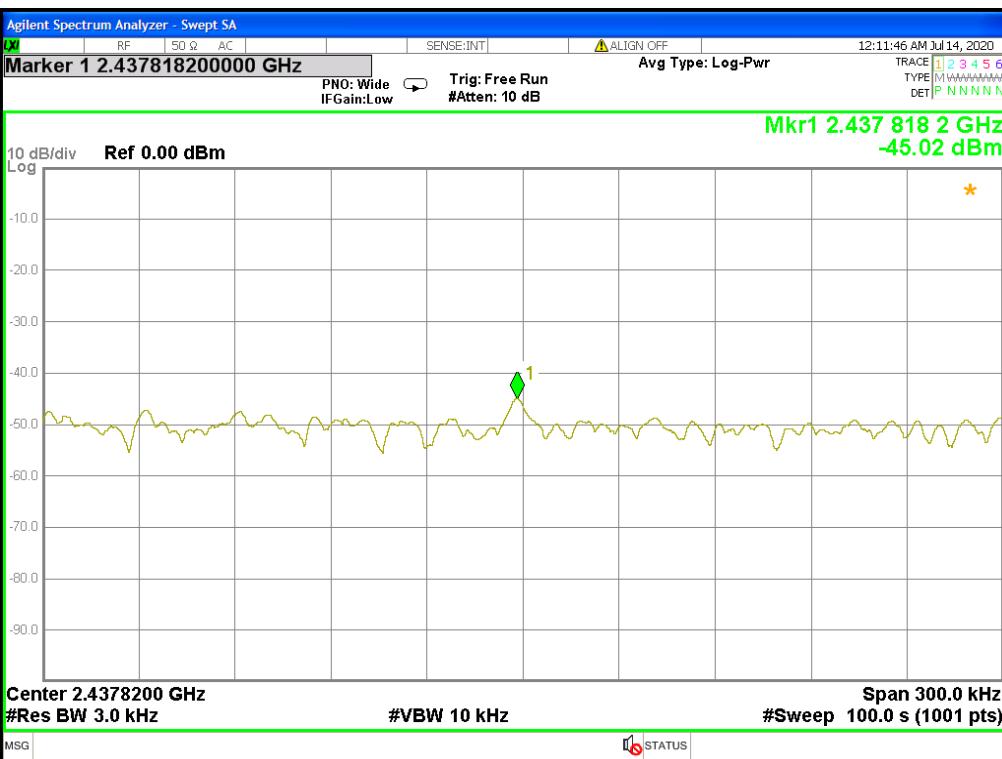
Modulation Standard	Channel	Frequency (MHz)	Measured Power Density (dBm)
802.11b (11Mbps)	01	2412	-44.68
	06	2437	-45.02
	11	2462	-44.25



Modulation Standard: 802.11b (11Mbps)
Channel: 01

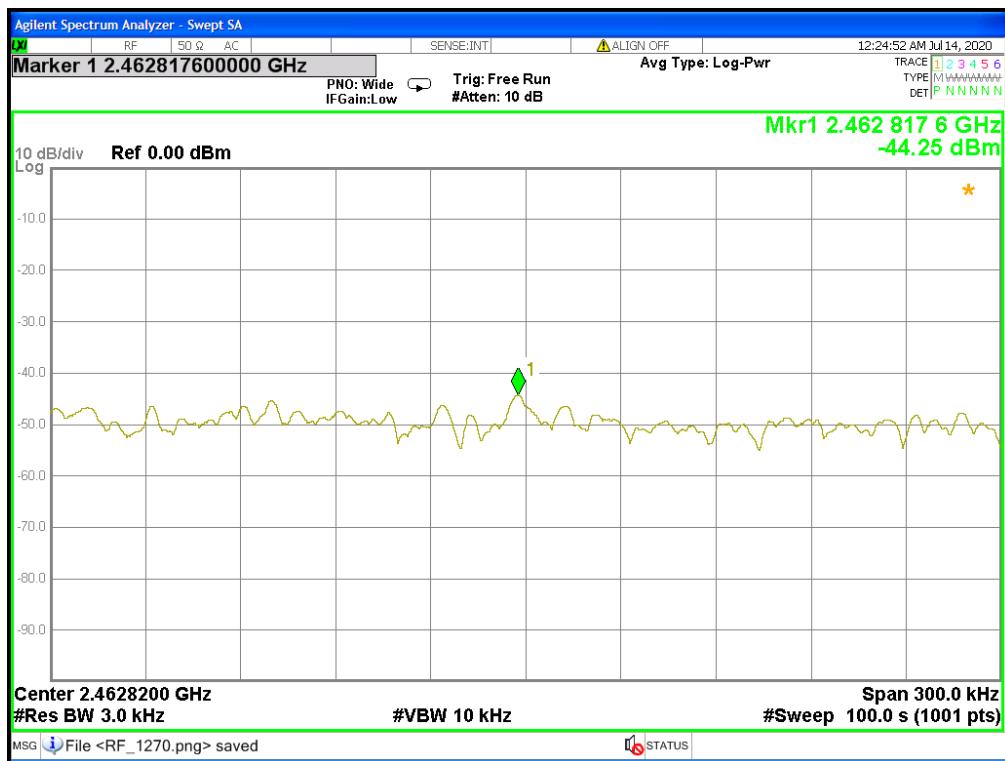


Modulation Standard: 802.11b (11Mbps)
Channel: 06





Modulation Standard: 802.11b (11Mbps)
Channel: 11





11. Band Edges Measurement

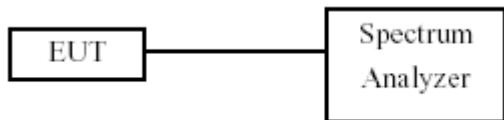
11.1 Test Limit

Below –20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

11.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

11.3 Test Setup Layout





11.4 Test Result and Data

Test Date: Jul. 14, 2020

Temperature: 25°C

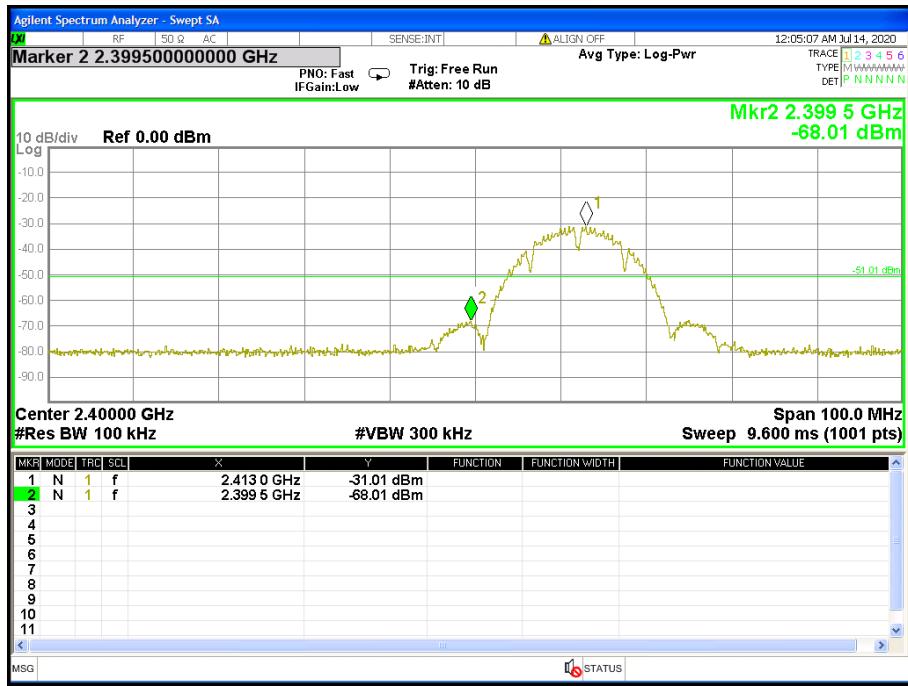
Atmospheric pressure: 1000 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)	maximum value (dBm)
802.11b (11Mbps)	01	2412	2399.5	-68.01
	11	2462	2490.7	-77.43



Modulation Standard: 802.11b (11Mbps)
Channel: 01

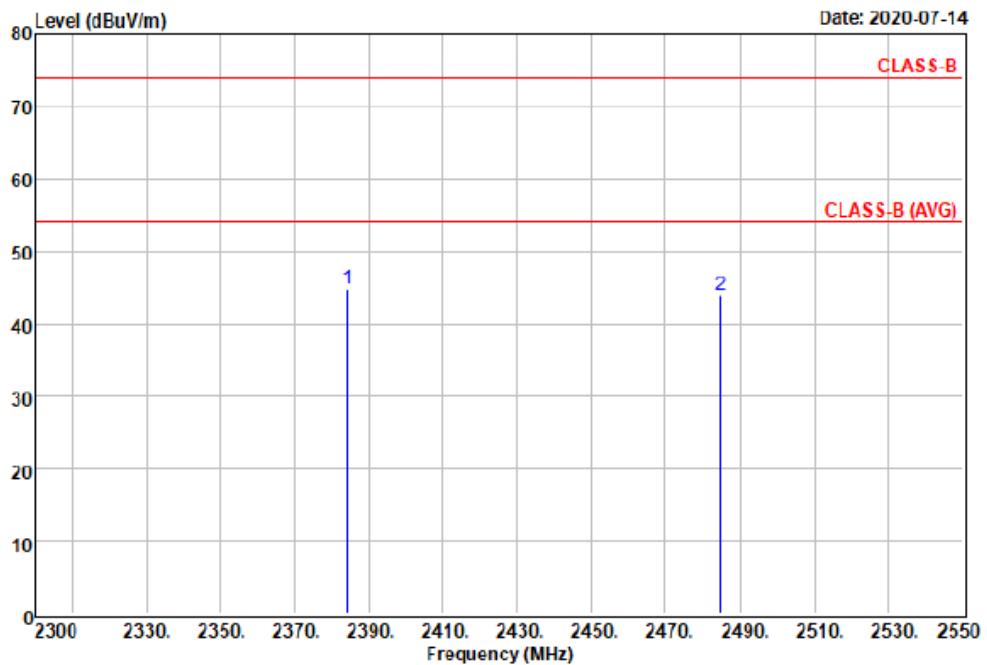




11.5 Restrict Band Emission Measurement Data

Power	:	DC 3V	Pol/Phase	:	H
Test Mode 1	:	b - CH1 & CH11	Temperature	:	35 °C
Memo	:		Humidity	:	60 %

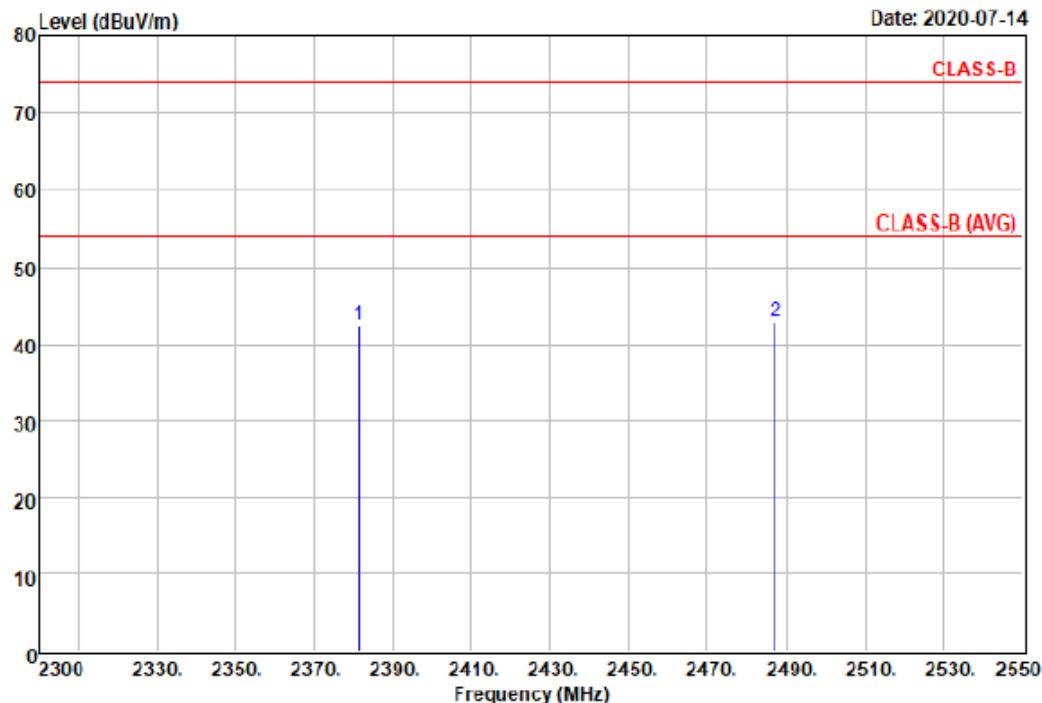
IEEE 802.11b



Freq	Read		Limit	Over	Limit	Remark
	Level	Factor				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @ 2384.500	55.17	-10.30	44.87	74.00	-29.13	Peak
2 2484.700	53.76	-9.78	43.98	74.00	-30.02	Peak



Power	: DC 3V	Pol/Phase	: V
Test Mode 1	: b - CH1&CH11	Temperature	: 35 °C
Memo	:	Humidity	: 60 %



Freq	Read		Limit		Over	
	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 2381.600	52.75	-10.30	42.45	74.00	-31.55	Peak
2 @ 2487.100	52.72	-9.78	42.94	74.00	-31.06	Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor : Antenna factor, Cable loss, Pre-Amp, etc.
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements above 1000 MHz, Peak detector setting:



- 1 MHz RBW with 1 MHz VBW (Peak Detector).
- 5. Measurements above 1000 MHz, Average detector setting:
 - 1 MHz RBW with 10Hz VBW (RMS Detector).
- 6. Peak detector measurement data will represent the worst case results.
- 7. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.



12. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

12.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.