



TEST REPORT

Report Number : TZ0287260503FRF20

Product Name : Remote Controller

Model/Type reference : WR20RF, RC01RF, RC01RFB, RC02RF, RC02RFB, RC03RF, RC03RFB, RC04RF, RC04RFB, RC05RF, RC05RFB, RC06RFB, RC07RF, RC07RFB, RC08RF, RC08RFB, RC09RF, RC09RFB, RC10RF, RC10RFB, RC11RF, RC11RFB, RC12RF, RC12RFB, RC13RF, RC13RFB, RC14RF, RC14RFB, RC15RF, RC15RFB, RC16RF, RC16RFB, RC17RF, RC17RFB, RC18RF, RC18RFB, RC19RF, RC19RFB, RC20RF, RC20RFB, WR01RF, WR02RF, WR03RF, WR04RF, WR05RF, WR06RF, WR07RF, WR08RF, WR09RF, WR10RF, WR11RF, WR12RF, WR13RF, WR14RF, WR15RF, WR16RF, WR17RF, WR18RF, WR19RF, LM087, LM096, LM091, LM007

FCC ID : 2A5UL-WR20RF

Prepared for : SHENZHEN YOU LAI MI TECHNOLOGY CO LTD
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Standards : FCC CFR Title 47 Part 15 Subpart C, ANSI C63.10-2020+Cor. 1-2023

Date of Test : 2026-05-08 ~ 2026-06-04

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**** Report Revise Record ****

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-06-05	Valid	Initial release





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1. GENERAL INFORMATION

1.1. Client Information

Applicant	: SHENZHEN YOU LAI MI TECHNOLOGY CO LTD
Address	: 5th Floor Building C, Fu Tai Industrial Park, Liaokeng, Shiyan Street Bao'an District, Shenzhen City, China, China
Manufacturer	: SHENZHEN YOU LAI MI TECHNOLOGY CO LTD
Address	: 5th Floor Building C, Fu Tai Industrial Park, Liaokeng, Shiyan Street Bao'an District, Shenzhen City, China, China

1.2. Description of Device (EUT)

Product Name	: Remote Controller
Trade Mark	: /
Model Number	: WR20RF, RC01RF, RC01RFB, RC02RF, RC02RFB, RC03RF, RC03RFB, RC04RF, RC04RFB, RC05RF, RC05RFB, RC06RFB, RC07RF, RC07RFB, RC08RF, RC08RFB, RC09RF, RC09RFB, RC10RF, RC10RFB, RC11RF, RC11RFB, RC12RF, RC12RFB, RC13RF, RC13RFB, RC14RF, RC14RFB, RC15RF, RC15RFB, RC16RF, RC16RFB, RC17RF, RC17RFB, RC18RF, RC18RFB, RC19RF, RC19RFB, RC20RF, RC20RFB, WR01RF, WR02RF, WR03RF, WR04RF, WR05RF, WR06RF, WR07RF, WR08RF, WR09RF, WR10RF, WR11RF, WR12RF, WR13RF, WR14RF, WR15RF, WR16RF, WR17RF, WR18RF, WR19RF, LM087, LM096, LM091, LM007
Model difference	All the same except for the model name
Test Model	: WR20RF
Power Supply	: DC 3V by 1.5V*2 batteries
Hardware version	: V1.0
Software version	: V1.0

1.3. Wireless Function Tested in this Report

Short Range Device	
Frequency Range	: 2410-2472MHz
Channel Number	: 3 Channels
Modulation Technology	: GFSK
Data Rates	: 1Mbps
Antenna Type And Gain	: Internal Antenna, 0dBi

Note 1: Antenna position refer to EUT Photos.

Note 2: the above information was supplied by the applicant.





1.4. EUT configuration

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

● supplied by the manufacturer

○ supplied by the lab

○		Model:	/
		Input:	/
		Output:	/

1.5. Description of Test Facility

FCC

Designation Number: CN1275

Test Firm Registration Number: 167722

Shenzhen Tongzhou Testing Co.,Ltd has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA

Certificate Number: 5463.01

Shenzhen Tongzhou Testing Co.,Ltd has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

IC

ISED#: 22033

CAB identifier: CN0099

Shenzhen Tongzhou Testing Co.,Ltd has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4 and CISPR 16-1-4:2010





1.6. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Shenzhen Tongzhou Testing Co., Ltd’s quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

Test Item		Uncertainty	Note
Radiation Uncertainty(9KHz~30MHz)	:	$\pm 3.26\text{dB}$	(1)
Radiation Uncertainty(30MHz~1000MHz)	:	$\pm 3.92\text{dB}$	(1)
Radiation Uncertainty(1GHz~40GHz)	:	$\pm 5.62\text{dB}$	(1)
Conduction Uncertainty	:	$\pm 2.71\text{dB}$	(1)
Occupied Channel Bandwidth	:	$\pm 3.0\%$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.8. Description of Test Modes

The EUT has been tested under operating condition with a new battery.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be **low Channel**.

1.9. Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	3	2472
2	2441	/	/





2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor. 1-2023, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen Tongzhou Testing Co.,Ltd

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209, 15.249 under the FCC Rules Part 15 Subpart C.

2.3. Test Sample

Sample ID	Description
TZ0287260503-1#	Normal sample





3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
/	/	/	/	/	/	/	/

3.3. Block Diagram/Schematics

Please refer to the related document

3.4. Equipment Modifications

Shenzhen Tongzhou Testing Co.,Ltd has not done any modification on the EUT.

3.5. Configuration of Tested System

Radiated Emission





4. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Sample ID	Result
§15.249(a)	Field Strength of Fundamental	TZ0287260503-1#	Compliant
§15.209&§15.249(a)	Radiated Emission	TZ0287260503-1#	Compliant
§15.209&§15.249(d)	Band Edge Emission	TZ0287260503-1#	Compliant
/	-20dB Bandwidth	TZ0287260503-1#	Compliant
§15.207(a)	Conducted Emissions	TZ0287260503-1#	N/A (Note 1)
§15.203	Antenna Requirements	TZ0287260503-1#	Compliant

Note 1: The EUT is powered only by a non-rechargeable battery and cannot be connected to the AC mains; therefore, conducted emission testing is not applicable.

Remark: The measurement uncertainty is not included in the test result.





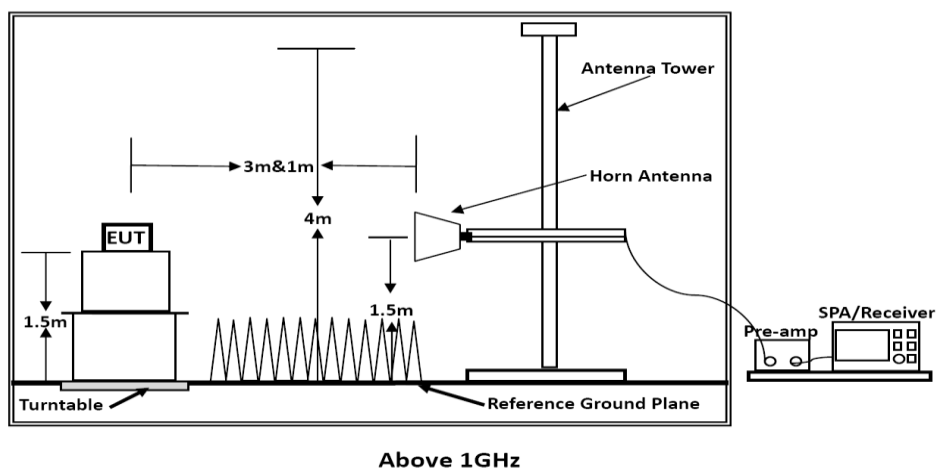
5. TEST RESULT

5.1. Bandwidth Measurement

5.1.1. Standard Applicable

Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.1.2. Block Diagram of Test Setup



5.1.3. Test Procedures

Occupied Bandwidth Spectrum Bandwidth Test Procedure:

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to C63.10 6.9.3
3. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

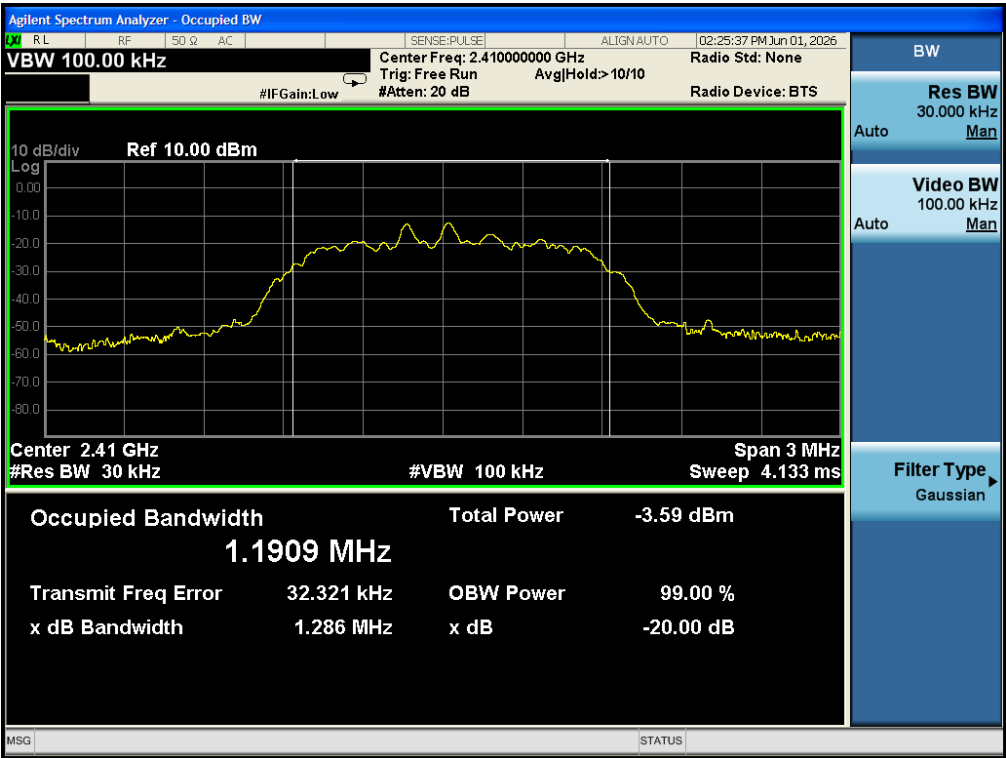




5.1.5. Test Result

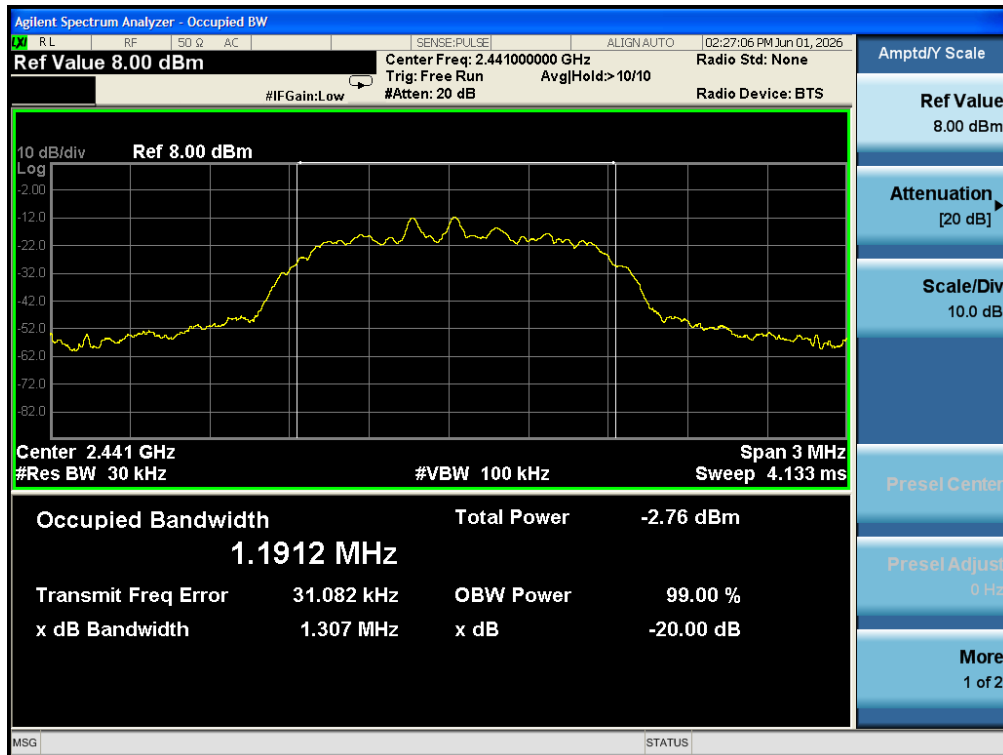
Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	TX Mode
Test Voltage	DC 3V	/	/

Freq (MHz)	-20dB Bandwidth (MHz)	Occupied bandwidth (MHz)	Limit (MHz)	Conclusion
2410	1.286	1.1909	/	PASS
2441	1.307	1.1912	/	PASS
2472	1.290	1.2061	/	PASS

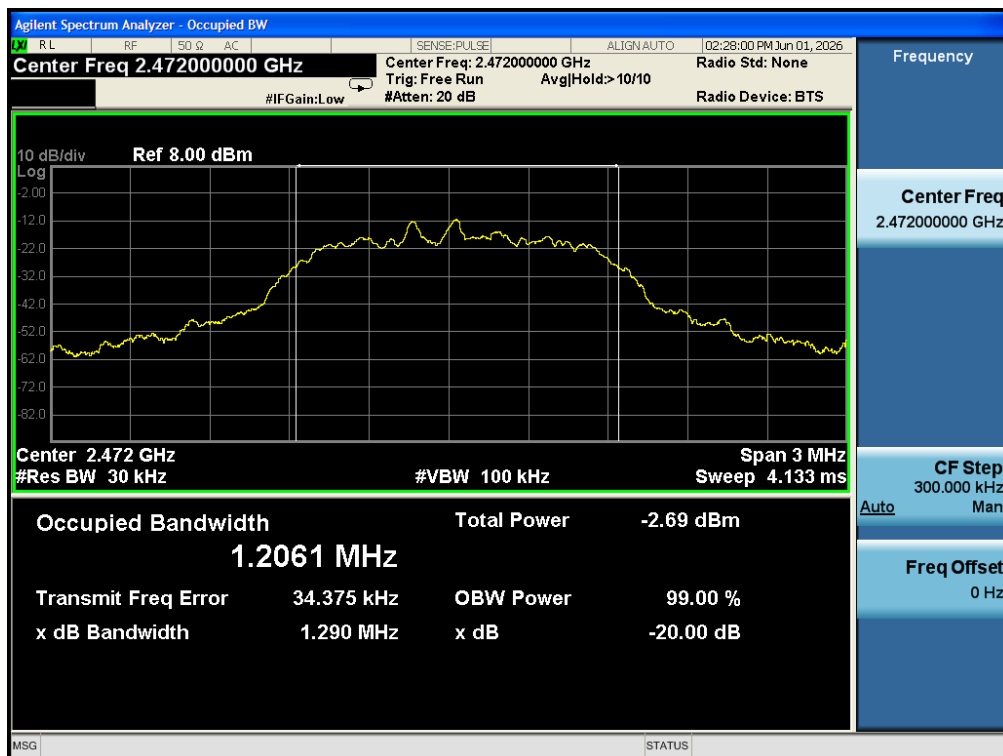


Channel 2410MHz





Channel 2441MHz



Channel 2472MHz





5.2. Radiated Emissions Measurement

5.2.1. Standard Applicable

15.249 (a)

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(1) The above field strength limits are specified at a distance of 3 meters.

(2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(3) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

15.209(a):

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





5.2.2. Measuring Instruments and Setting

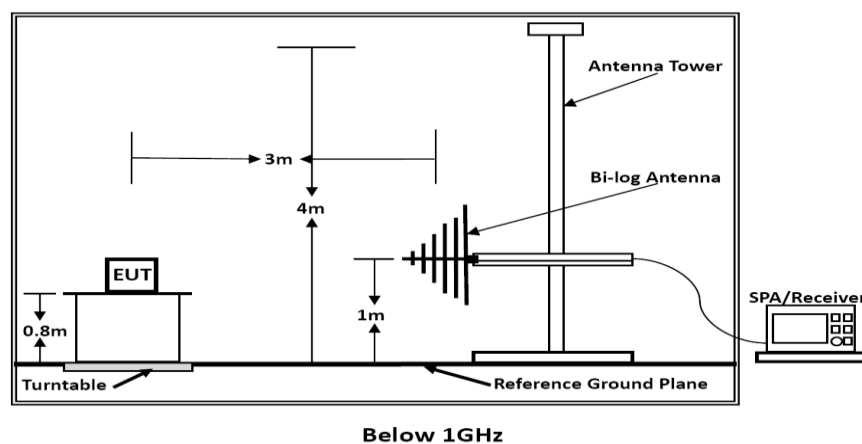
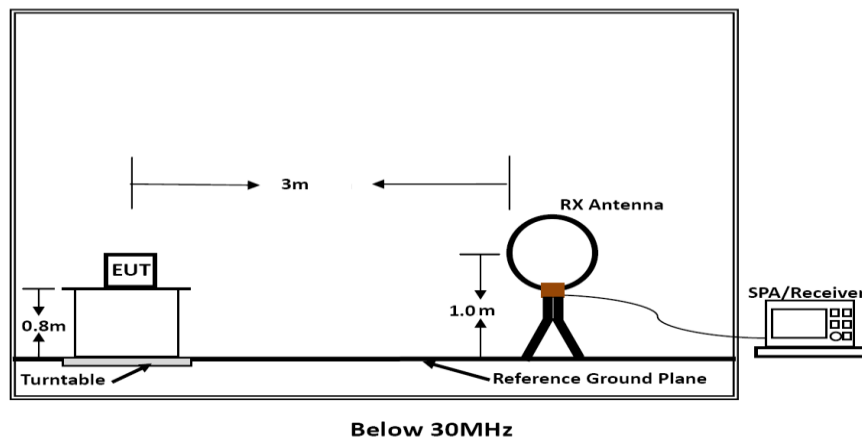
The following table is the setting of spectrum analyzer and receiver.

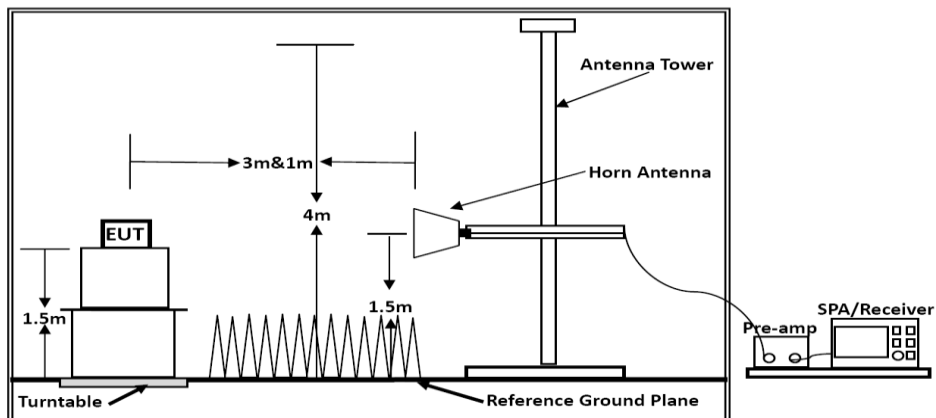
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 3 MHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 3 MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.2.3. Block Diagram of Test Setup

For radiated emissions below 30MHz





Above 1GHz





5.2.4. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 40 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.





- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meters. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.





5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Test Results

Results of Radiated Emissions (9 KHz~30MHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	Mode 1
Test Voltage	DC 3V	/	/

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).

Limit line = specific limits (dBuV) + distance extrapolation factor.

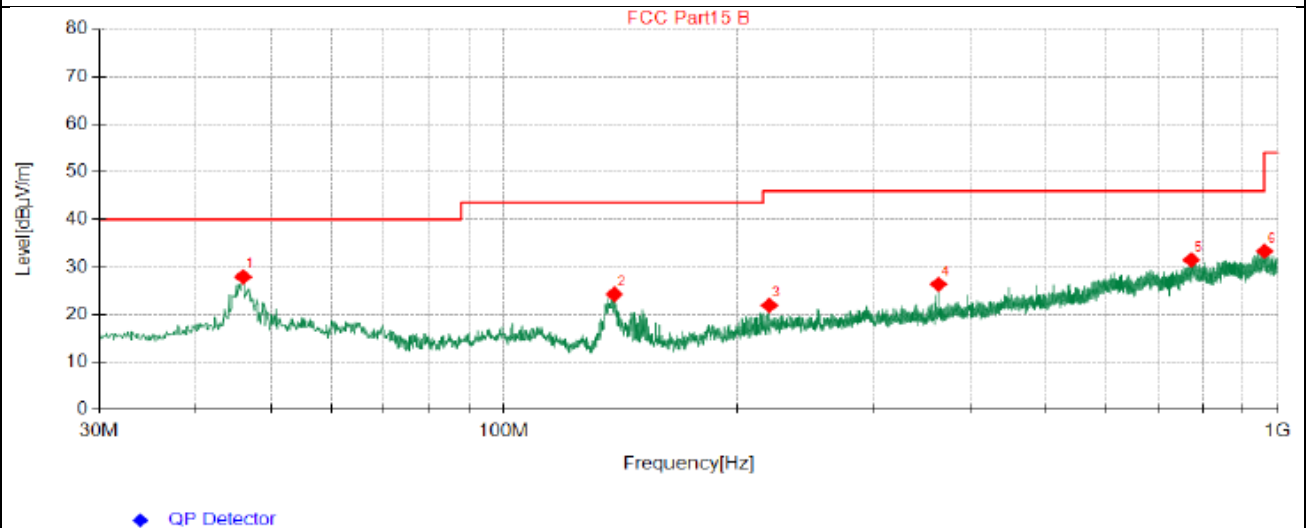




Results of Radiated Emissions and Band Edge (30MHz~1GHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	Mode 1
Test Voltage	DC 3V	/	/

Vertical



Suspected Data List

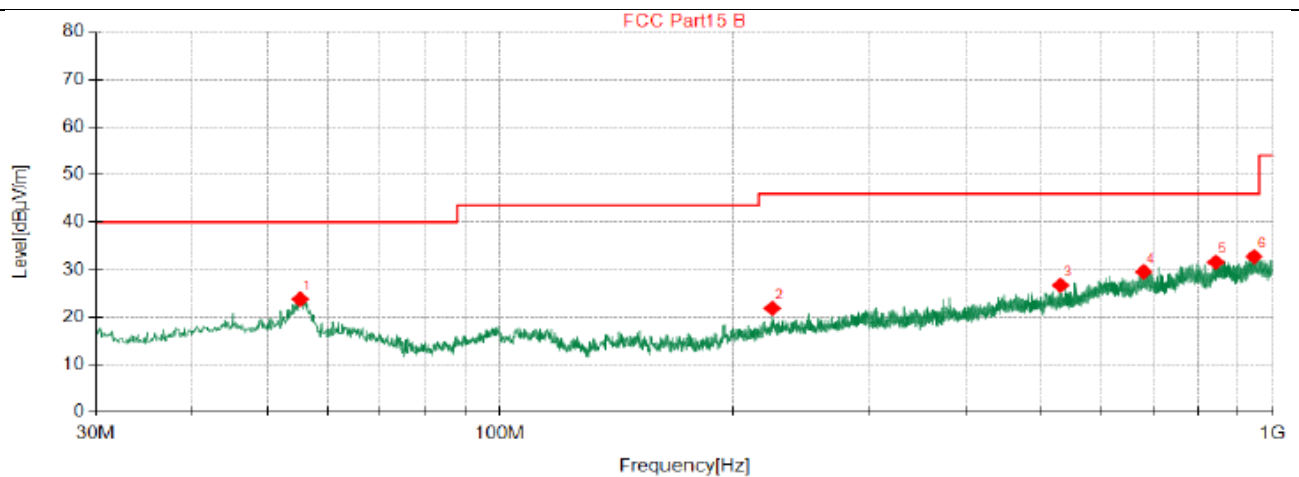
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.00	12.71	15.22	27.93	40.00	12.07	100	58	Vertical
2	138.7	14.21	10.06	24.27	43.50	19.23	100	215	Vertical
3	220.1	8.06	13.87	21.93	46.00	24.07	100	102	Vertical
4	364.0	7.97	18.39	26.36	46.00	19.64	100	206	Vertical
5	772.4	6.54	24.92	31.46	46.00	14.54	100	162	Vertical
6	960.4	5.80	27.51	33.31	54.00	20.69	100	140	Vertical

***Note:

1. Level [dBμV/m] = Reading [dBμV] + Factor [dB/m]

2. Margin [dB] = Limit [dBμV/m] - Level [dBμV/m]



**Horizontal**

◆ QP Detector

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	55.09	9.36	14.44	23.80	40.00	16.20	100	302	Horizontal
2	224.9	7.87	13.99	21.86	46.00	24.14	100	91	Horizontal
3	530.7	5.64	21.07	26.71	46.00	19.29	100	215	Horizontal
4	680.2	5.50	24.04	29.54	46.00	16.46	100	360	Horizontal
5	843.1	5.81	25.74	31.55	46.00	14.45	100	148	Horizontal
6	945.1	5.61	27.12	32.73	46.00	13.27	100	183	Horizontal

*****Note:**

1. Level [dBμV/m] = Reading [dBμV] + Factor [dB/m]
2. Margin [dB] = Limit [dBμV/m] - Level [dBμV/m]



**Results of Field Strength of Fundamental**

Peak Value					
Frequency (MHz)	Measured Level@3m (dBμV/m)	Correction Factor dB/m	Field Strength (dBμV/m)	Limit @3m (dBμV/m)	Polarity
2410	57.52	34.59	92.11	94	Horizontal
2410	54.95	34.59	89.54	94	Vertical
2441	57.78	34.59	92.37	94	Horizontal
2441	54.39	34.59	88.98	94	Vertical
2472	57.82	34.59	92.41	94	Horizontal
2472	55.35	34.59	89.94	94	Vertical

Note:

1. Corr. Factor= Antenna Factor (dB/m) + Cable Loss (dB)

2. RBW=2MHz/VBW=6MHz

3. The average measurement was not performed when the peak measured data under the limit of average detection.



**Results for Radiated Emissions (1GHz to 25GHz)**

Temperature	24℃	Humidity	55.2%
Test Engineer	Tony Luo	Configurations	SRD
Test Voltage	DC 3V	/	/

Remark: Measured all modes and recorded worst case.

Channel 1 / 2410 MHz

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
4820.00	58.41	33.06	35.04	3.94	60.37	74.00	13.63	Peak	Horizontal
4820.00	42.96	33.06	35.04	3.94	44.92	54.00	9.08	Average	Horizontal
4820.00	53.86	33.06	35.04	3.94	55.82	74.00	18.18	Peak	Vertical
4820.00	41.59	33.06	35.04	3.94	43.55	54.00	10.45	Average	Vertical

Channel 2 / 2441MHz

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
4882.00	55.24	33.16	35.15	3.96	57.21	74.00	16.79	Peak	Horizontal
4882.00	42.25	33.16	35.15	3.96	44.22	54.00	9.78	Average	Horizontal
4882.00	54.08	33.16	35.15	3.96	56.05	74.00	17.95	Peak	Vertical
4882.00	39.14	33.16	35.15	3.96	41.11	54.00	12.89	Average	Vertical

Channel 3 / 2472 MHz

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
4944.00	56.93	33.26	35.14	3.98	59.03	74.00	14.97	Peak	Horizontal
4944.00	42.67	33.26	35.14	3.98	44.77	54.00	9.23	Average	Horizontal
4944.00	54.46	33.26	35.14	3.98	56.56	74.00	17.44	Peak	Vertical
4944.00	39.20	33.26	35.14	3.98	41.30	54.00	12.70	Average	Vertical

Notes:

1. Measuring frequencies from 9 KHz - 10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9 KHz ~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 30dB below the permissible limits or the field strength is too small to be measured.
4. Level = Reading + Ant. Fac - Pre. Fac. + Cab. Loss. Margin = Limit – Level.





5.3. AC Power line conducted emissions

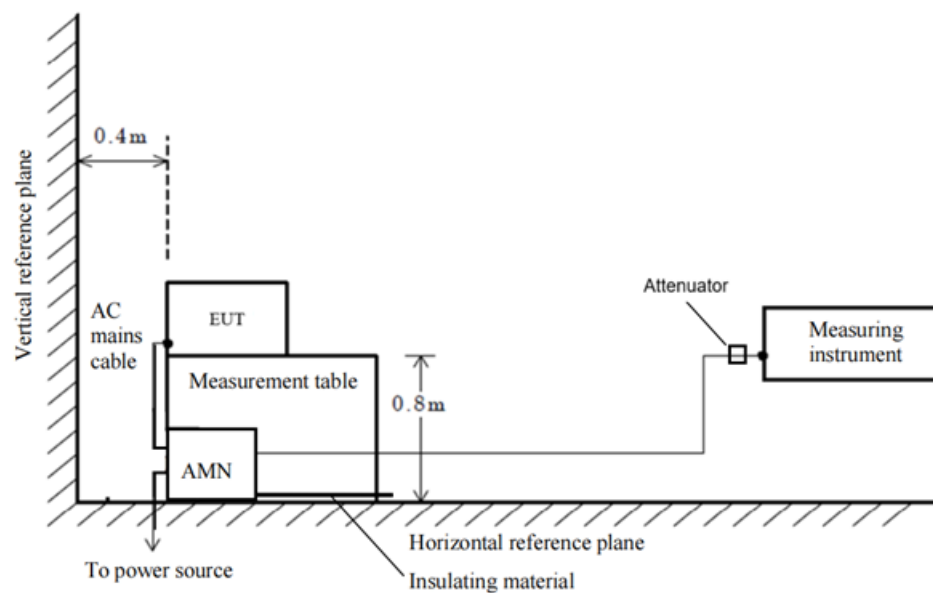
5.3.1. Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

5.3.2. Block Diagram of Test Setup



Note: the distance between LISN and Vertical reference plane is 40 cm and the distance between LISN and EUT is 80 cm.

5.3.3. Test Results

Not Applicable.





5.4. Band-edge measurements for radiated emissions

5.4.1. Standard Applicable

15.249 (a)

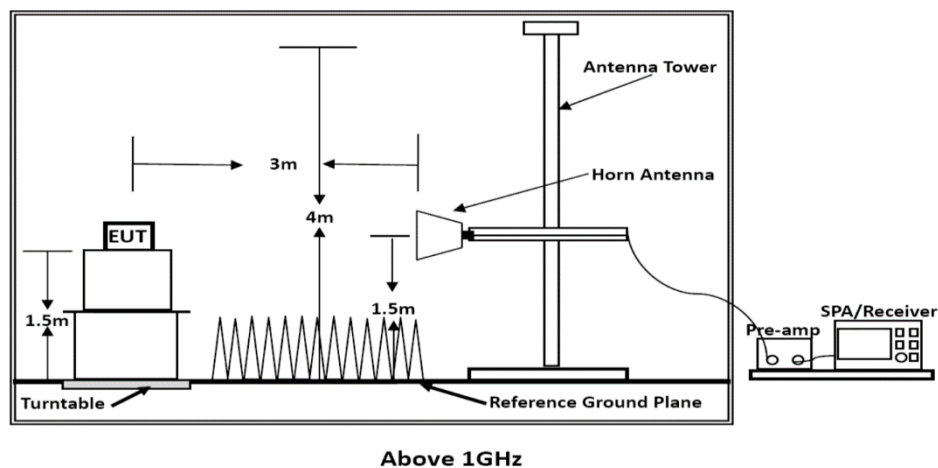
Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(1) The above field strength limits are specified at a distance of 3 meters.

(2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.4.2. Block Diagram of Test Setup

☒ For Radiated



5.4.3. Test Procedures

☒ Radiated Method:

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Peak
	Average Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Average

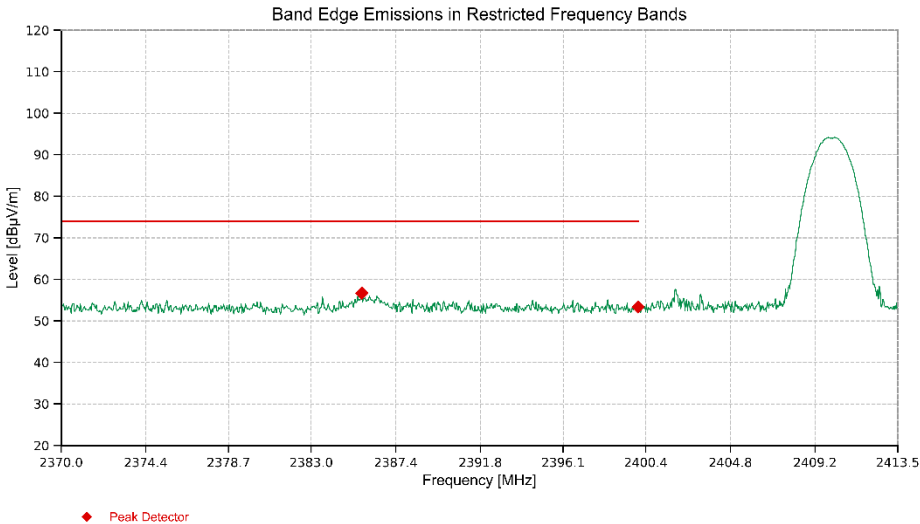




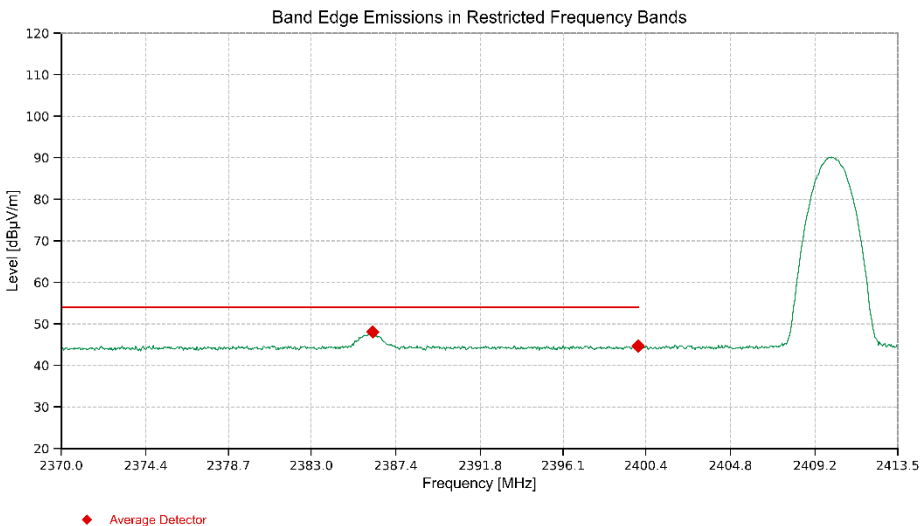
5.4.4. Test Results

Temperature	22.5℃	Humidity	56%
Test Engineer	Allen Lai	Configurations	SRD
Test Voltage	DC 3V	/	/

SRD_ANT1_2410_1Mbps

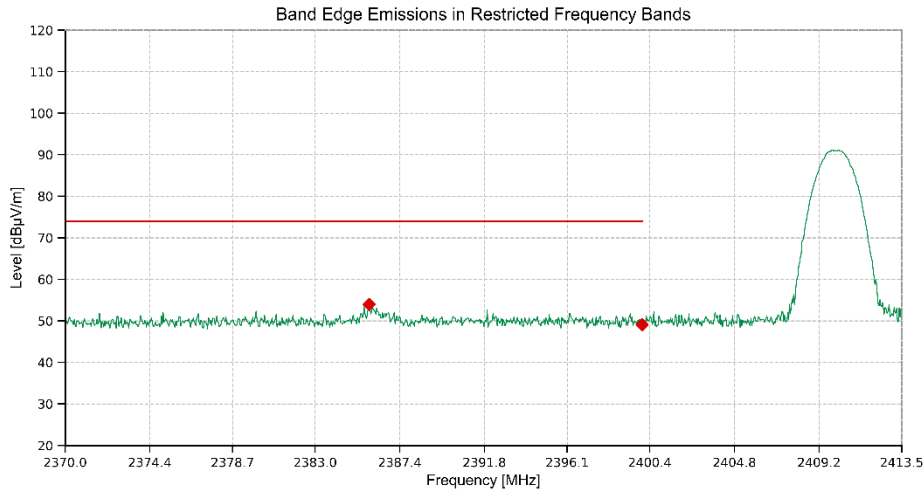


Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2385.63	17.83	29.99	8.35	56.17	74.00	17.83	Peak	Horizontal
2400.00	14.52	29.99	8.35	52.86	74.00	21.14	Peak	Horizontal



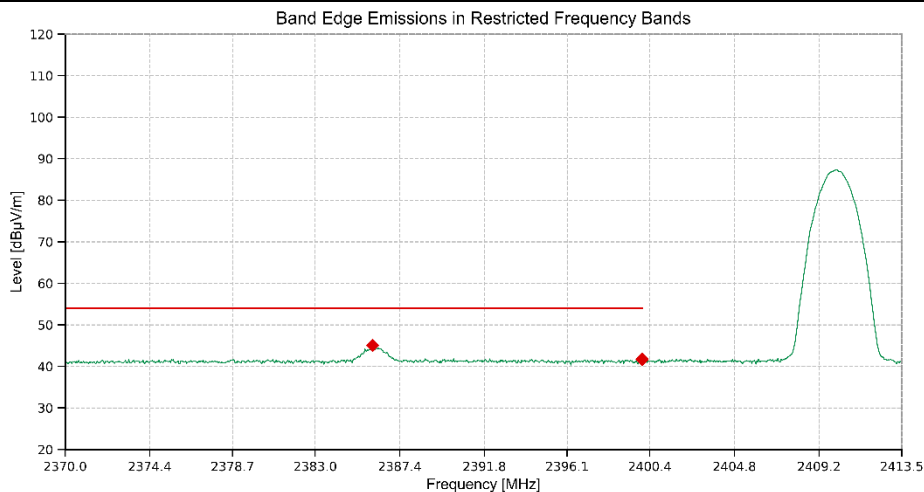
Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2386.20	9.23	29.99	8.35	47.57	54.00	6.43	Average	Horizontal
2400.00	5.83	29.99	8.35	44.17	54.00	9.83	Average	Horizontal





◆ Peak Detector

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2385.81	15.13	29.99	8.35	53.47	74.00	20.53	Peak	Vertical
2400.00	10.24	29.99	8.35	48.58	74.00	25.42	Peak	Vertical



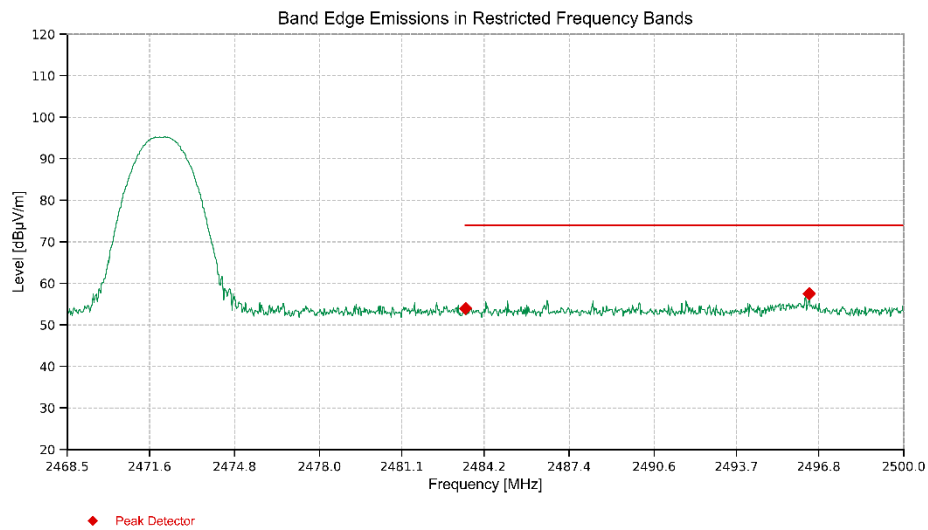
◆ Average Detector

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2385.98	6.20	29.99	8.35	44.54	54.00	9.46	Average	Vertical
2400.00	2.87	29.99	8.35	41.21	54.00	12.79	Average	Vertical

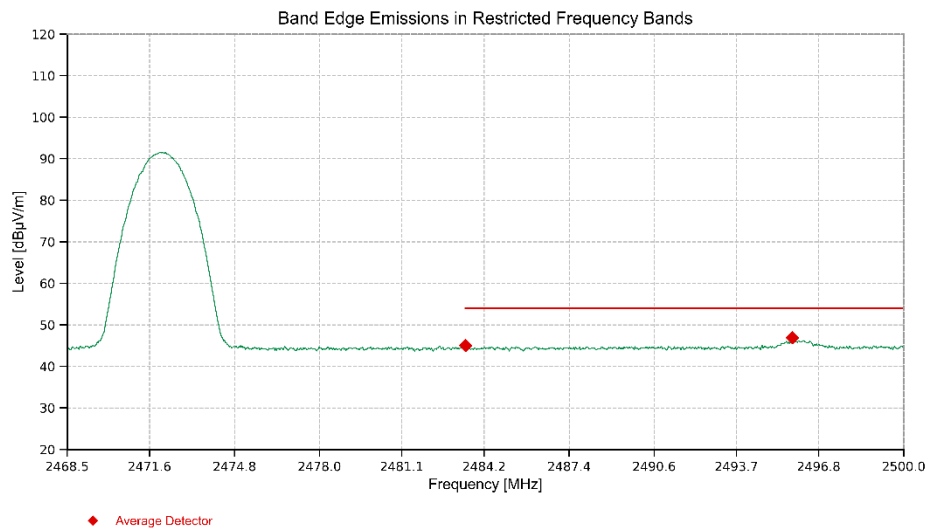




SRD_ANT1_2472_1Mbps

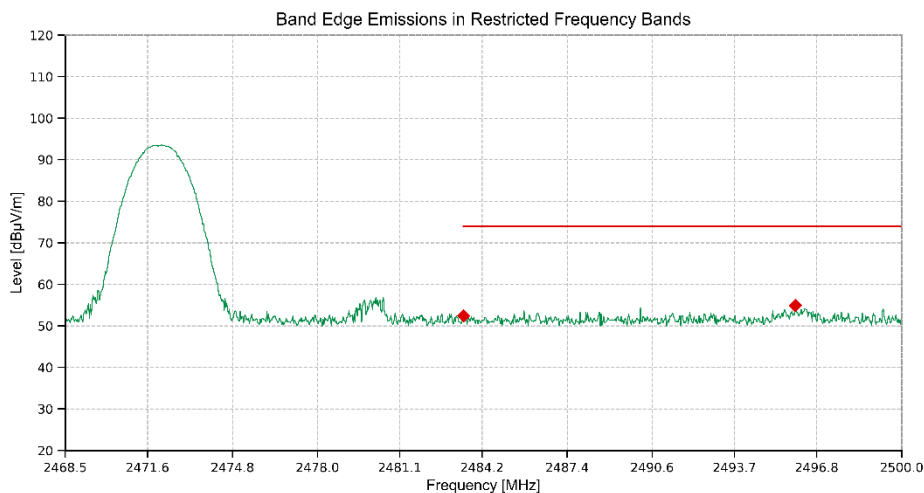


Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2496.44	18.24	30.25	8.50	56.99	74.00	17.01	Peak	Horizontal
2483.50	14.68	30.25	8.50	53.43	74.00	20.57	Peak	Horizontal



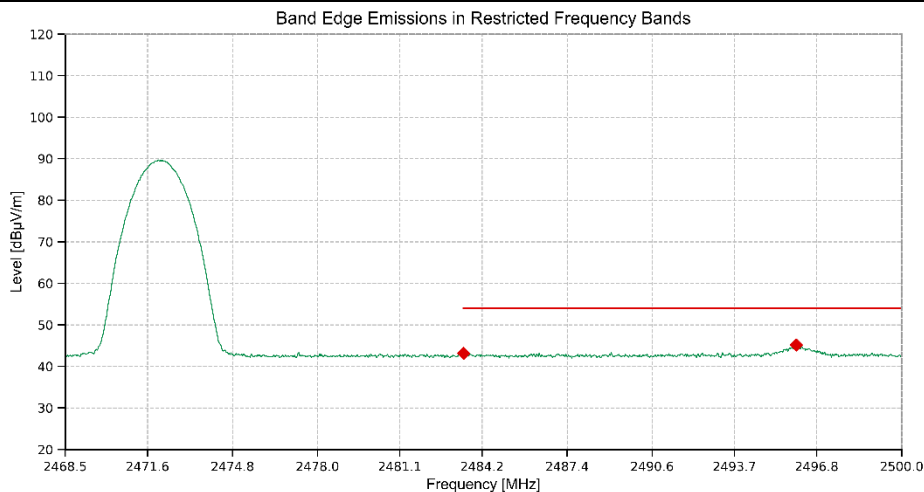
Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2495.81	7.64	30.25	8.50	46.39	54.00	7.61	Average	Horizontal
2483.50	5.75	30.25	8.50	44.50	54.00	9.50	Average	Horizontal





◆ Peak Detector

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2496.00	15.64	30.25	8.50	54.39	74.00	19.61	Peak	Vertical
2483.50	13.15	30.25	8.50	51.90	74.00	22.10	Peak	Vertical



◆ Average Detector

Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
2496.03	5.90	30.25	8.50	44.65	54.00	9.35	Average	Vertical
2483.50	3.88	30.25	8.50	42.63	54.00	11.37	Average	Vertical

Result Level = Read Level + Antenna Factor + Cable loss.

Margin = Limit - Emission Level.





5.5. Antenna Requirements

5.5.1. Standard Applicable

According to antenna requirement of §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

5.5.2. Antenna Connected Construction

The antenna is an internal antenna and no consideration of replacement. Please see EUT photo for details.

5.5.3. Results

Compliance





6. LIST OF MEASURING EQUIPMENTS

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	MXA Signal Analyzer	Keysight	N9020A	MY52091623	2026-01-11	2027-01-10
2	Loop Antenna	schwarzbeck	FMZB1519B	00023	2025-10-18	2028-10-17
3	Wideband Antenna	schwarzbeck	VULB 9163	958	2025-10-18	2028-10-17
4	Horn Antenna	schwarzbeck	BBHA 9120D	01989	2025-10-18	2028-10-17
5	EMI Test Receiver	R&S	ESCI	100849/003	2026-01-11	2027-01-10
6	Controller	MF	MF7802	N/A	N/A	N/A
7	Amplifier	schwarzbeck	BBV 9743	209	2026-01-11	2027-01-10
8	Amplifier	Tonscend	TSAMP-0518SE	--	2026-01-11	2027-01-10
9	RF Cable(below 1GHz)	HUBER+SUHNER	RG214	N/A	2026-01-11	2027-01-10
10	RF Cable(above 1GHz)	HUBER+SUHNER	RG214	N/A	2026-01-11	2027-01-10
11	Amplifier	Chengyi	EMC184045SE	980508	2026-01-11	2027-01-10
12	Horn Antenna	A-INFO	LB-180400-KF	J211020657	2025-10-18	2028-10-17
13	Spectrum Analyzer	R&S	FSV40	101321	2026-01-11	2027-01-10
14	Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2026-01-11	2027-01-10
15	RF Cable	MICROWAVE	SMA-18	N/A	Each Test	Each Test
16	RF Filter	HX Microwave	HXLBQ-DZA219	N/A	2026-01-11	2027-01-10

Test software used:

Item	Test Software	Manufacturer	Name	Version
1	RE test software	Tonscend	JS32-RE	V5.0.0.0





7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

