


RF MEASUREMENT REPORT

FCC ID: DD4MXW6X
Applicant: Shure Incorporated
Product: Wireless Microphone
Regulation Model MXW6X
Number (RMN):
Product Number: MXW6X/C Z10, MXW6X/O Z10
MXW6XW/C Z10, MXW6XW/O Z10
Brand Name: 
FCC Classification: Unlicensed PCS Base Station
FCC Rule Part(s): FCC Part 15, Subpart D
Result: Complies
Receiver Date: 2022-11-21
Test Date: 2022-11-28 ~ 2023-05-18

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.17. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

| Report No. | Version | Description | Issue Date | Note |
|---------------|---------|----------------|------------|-------|
| 2211RSU056-U2 | V01 | Initial Report | 2023-05-20 | Valid |
| | | | | |

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1.4. Product Information

| | |
|--|---|
| Product Name | Wireless Microphone |
| RMN | MXW6X |
| Product Number | MXW6X/C Z10, MXW6X/O Z10 MXW6XW/C Z10, MXW6XW/O Z10 |
| Serial No. | 3BH14564783 (Conducted testing) 3BH14565152 (Radiated testing) |
| DECT Specification | 1920 ~ 1930MHz |
| Bluetooth Specification | V5.0 signal mode, BLE only |
| Antenna Information | Refer to section 1.5 |
| Working Voltage | Power by Li-ion battery or USB-C input |
| Operating Temperature | 5 ~ 40 °C |
| Accessories | |
| Rechargeable Li-ion Battery | Model: SB906 Rating: 3.7Vdc, 1150mAh, 4.255Wh |
| Remark: 1, The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2, Product number differences are as follows. MXW6X/C Z10, MXW6X/O Z10: Black enclosure, different built-in MIC MXW6XW/C Z10, MXW6XW/O Z10: White enclosure, different built-in MIC | |

1.5. Radio Specification under Test

| | |
|---|------------------------|
| Frequency Range | 1921.536 ~ 1928.448MHz |
| Channel Number | 5 |
| Type of Modulation | GFSK |
| Antenna Type | Internal Chip |
| Antenna A Gain | 1.72dBi |
| Antenna B Gain | -0.70dBi |
| Note: Only one antenna works at a time. | |

1.6. Working Frequencies

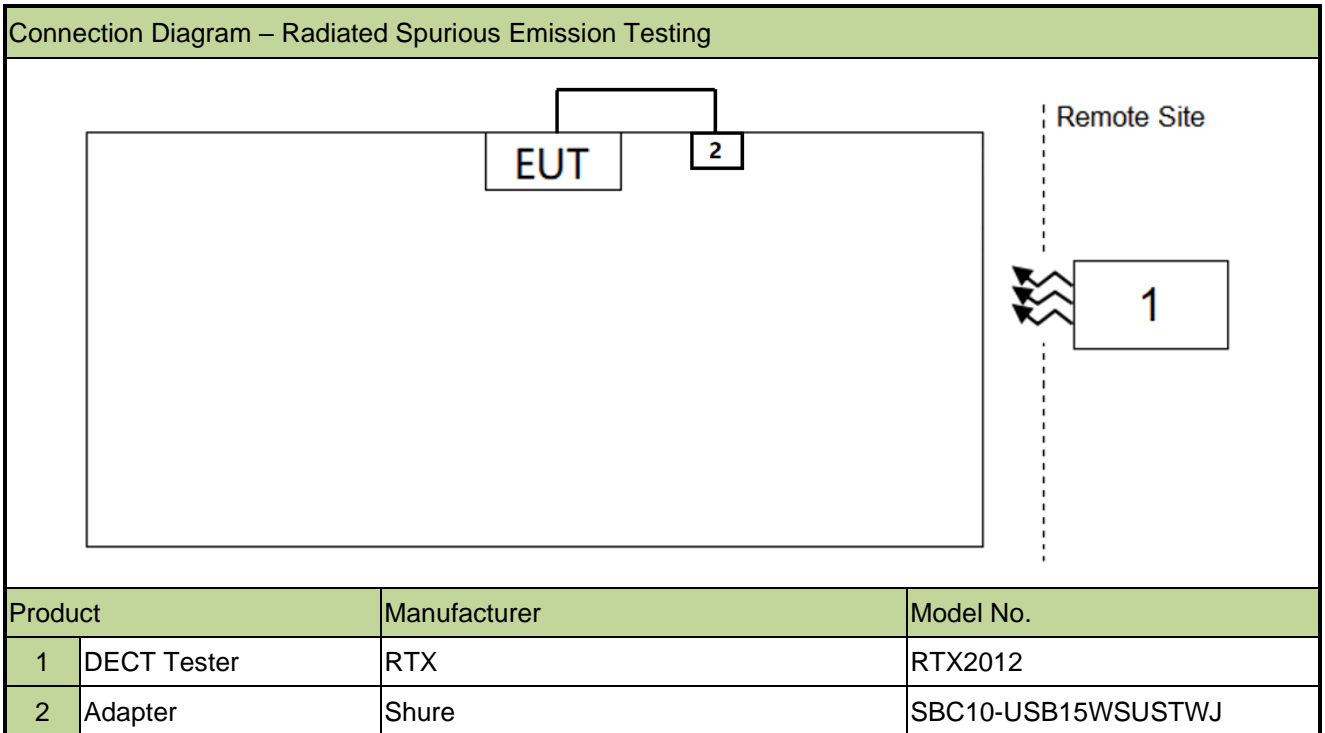
| DECT Channel | Frequency (MHz) |
|-------------------|-----------------|
| Highest Band Edge | 1930.000 |
| 0 (Highest) | 1928.448 |
| 1 | 1926.720 |
| 2 | 1924.992 |
| 3 | 1923.264 |
| 4 (Lowest) | 1921.536 |
| Lowest Band Edge | 1920.000 |

2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at DECT channel

2.2. Test System Connection Diagram



2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15D
- ANSI C63.17-2013

2.4. Test Environment Condition

| | |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C |
| Relative Humidity | 20 ~ 75%RH |

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the unit is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

| Instrument | Manufacturer | Model No. | Asset No. | Cali. Interval | Cali. Due Date | Test Site |
|---------------------|--------------|--------------|-------------|----------------|----------------|-----------|
| TRILOG Antenna | Schwarzbeck | VULB 9162 | MRTSUE06022 | 1 year | 2023-05-20 | WZ-AC2 |
| EMI Test Receiver | Agilent | N9038A | MRTSUE06125 | 1 year | 2023-06-04 | WZ-AC2 |
| Thermohygrometer | Mingle | ETH529 | MRTSUE06170 | 1 year | 2023-11-27 | WZ-AC2 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | MRTSUE06171 | 1 year | 2023-10-13 | WZ-AC2 |
| Preamplifier | Schwarzbeck | BBV 9718 | MRTSUE06176 | 1 year | 2023-05-08 | WZ-AC2 |
| | | | | 1 year | 2024-05-07 | WZ-AC2 |
| Anechoic Chamber | RIKEN | WZ-AC2 | MRTSUE06213 | 1 year | 2023-04-21 | WZ-AC2 |
| | | | | 1 year | 2024-04-20 | WZ-AC2 |
| Thermohygrometer | testo | Testo 608-H1 | MRTSUE11038 | 1 year | 2023-11-01 | WZ-AC2 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2023-09-29 | WZ-AC2 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | MRTSUE06597 | 1 year | 2023-11-05 | WZ-AC2 |
| Preamplifier | EMCI | EMC184045SE | MRTSUE06640 | 1 year | 2024-01-12 | WZ-AC2 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06002 | 1 year | 2023-06-04 | WZ-SR2 |
| Shielding Room | MIX-BEP | WZ-SR2 | MRTSUE06215 | 5 years | 2026-12-20 | WZ-SR2 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06404 | 1 year | 2023-06-06 | WZ-SR2 |
| EMI Test Receiver | R&S | ESR3 | MRTSUE06909 | 1 year | 2023-10-27 | WZ-SR2 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06402 | 1 year | 2023-06-06 | WZ-SR5 |
| Signal Generator | R&S | SMBV100A | MRTSUE06279 | 1 year | 2023-04-06 | WZ-SR5 |
| | | | | 1 year | 2024-02-29 | WZ-SR5 |
| DECT Tester | RTX | RTX2012 | MRTSUE06408 | 1 year | 2024-02-29 | WZ-SR5 |
| Signal Generator | Keysight | N5182B | MRTSUE06993 | 1 year | 2023-08-23 | WZ-SR5 |
| Signal Generator | Keysight | N5182B | MRTSUE06451 | 1 year | 2023-07-08 | WZ-SR5 |
| Attenuator | MVE | MVE2213 | MRTSUE11085 | 1 year | 2023-06-09 | WZ-SR5 |
| Temperature Chamber | BAOYT | BYH-150CL | MRTSUE06051 | 1 year | 2023-10-08 | WZ-TR3 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06401 | 1 year | 2023-06-06 | WZ-TR3 |
| Signal Analyzer | Keysight | N9010B | MRTSUE06457 | 1 year | 2023-06-04 | WZ-TR3 |

| Software | Version | Function |
|--------------------|-----------|------------------------|
| EMI V3 | V 3.0.0 | EMI Test Software |
| Controller_MF 7802 | 1.02 | RE Antenna & turntable |
| RTX2012 | V 2.08.17 | DECT |

5. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

| |
|---|
| AC Conducted Emission Measurement |
| The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB |
| Radiated Emission Measurement |
| The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.59dB Coplanar: 9kHz~30MHz: 2.60dB Horizontal: 30MHz~200MHz: 3.85dB 200MHz~1GHz: 4.36dB 1GHz~40GHz: 4.98dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.91dB |
| Spurious Emissions, Conducted |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.3dB |
| Output Power |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.5dB |
| Power Spectrum Density |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.3dB |
| Occupied Bandwidth |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.2% |

6. Test Result

6.1. Summary

| FCC Section(s) | Test Description | Test Condition | Verdict |
|---|--|------------------------|---------|
| 15.319(b) | Digital Modulation Techniques | Declared | Pass |
| 15.19(a)(3) | Labeling requirements | | Pass |
| 15.319(f) | Automatic discontinuation of transmission | Conducted | Pass |
| 15.317, 15.203 | Antenna Requirement | Declared | Pass |
| 15.315 | AC Power Line Conducted Emission | Line Conducted | Pass |
| 15.323(a) | Emission Bandwidth | Conducted | Pass |
| 15.319(c) | Peak Transmit Power | | Pass |
| 15.319(d) | Power Spectral Density | | Pass |
| 15.323(d) | In-band emissions | | Pass |
| 15.323(d) | Out-of-band emissions | Conducted and Radiated | Pass |
| 15.323(e) | Frame Repetition Stability and period and Jitter | Conducted | Pass |
| 15.323(f) | Carrier frequency stability | | Pass |
| 15.323(c1, c2, c3, c4) | Listen Before Transmit (LBT) | | Pass |
| 15.323(c5) | Least Interfered Channel (LIC) | | Pass |
| 15.323(c6) | Random Waiting | | N/A |
| 15.323(c7) | Monitoring Requirements | | Pass |
| 15.323(c8) | Monitoring Antenna | Declared | Pass |
| 15.323(c9) | Monitoring Threshold Relaxation | Conducted | N/A |
| 15.323(c10) | Duplex System LBT | | N/A |
| 15.323(c11) | Co-Located Device LBT | | N/A |
| 15.323(c12) | Fair Access | Declared | N/A |
| Remark: <ol style="list-style-type: none"> “N/A” means that this item is not applicable, and the detail information refer to relevant section. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions. | | | |

6.2. AC Power Line Conducted Measurement Emissions

6.2.1. Test Limit

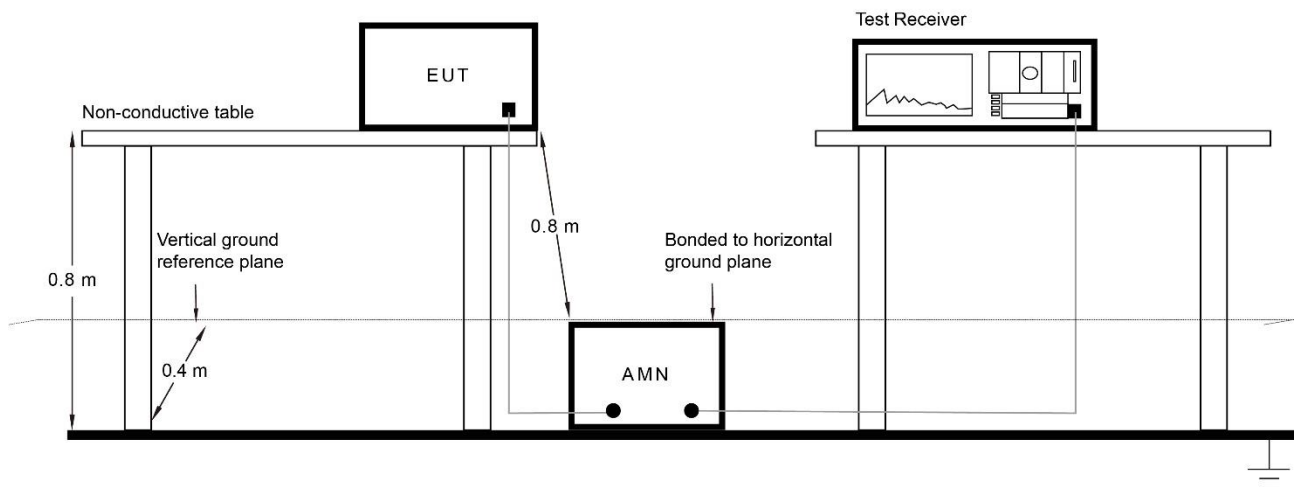
An unlicensed PCS device that is designed to be connected to the public utility (AC) power line must meet the limits specified in § 15.207.

| FCC Part 15.207 Limits | | |
|------------------------|-----------------|-----------------|
| Frequency (MHz) | QP (dB μ V) | AV (dB μ V) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Note 1: The lower limit shall apply at the transition frequencies.

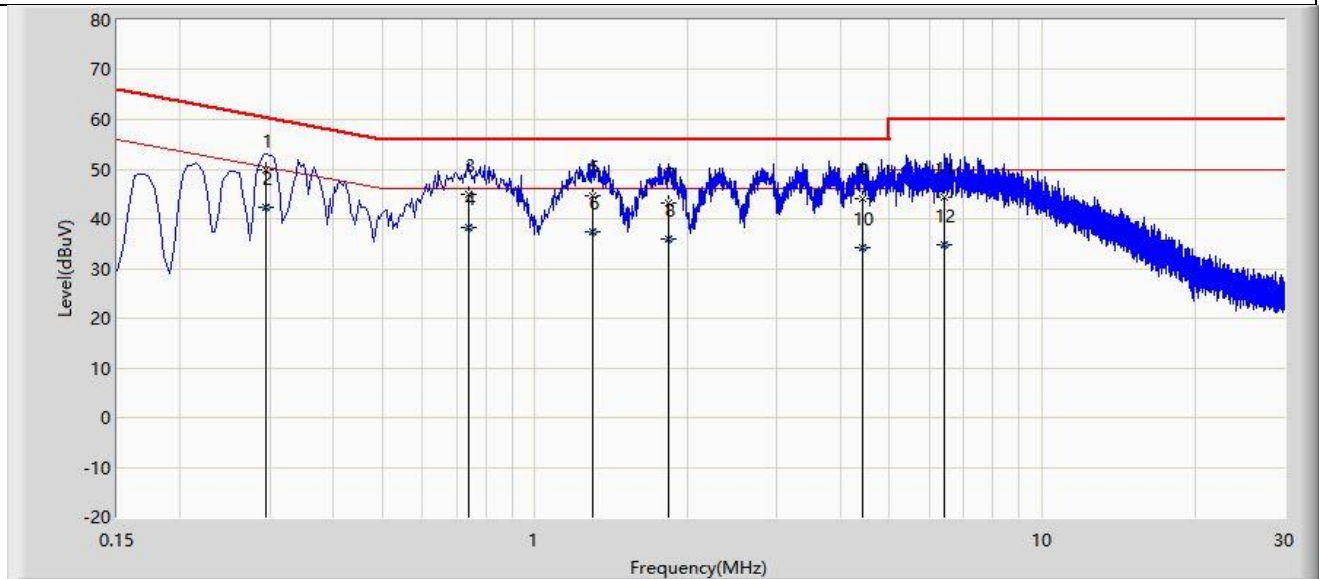
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result

| | |
|-----------------------------------|-----------------------|
| Site: WZ-SR2 | Test Date: 2022-12-21 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Helen Han |
| Probe: ENV216_101683_Filter Off_E | Polarity: Line |
| EUT: Wireless Microphone | Power: AC 120V/60Hz |

Test Mode: Transmit at channel 00


| No | Mark | Frequency (MHz) | Measure Level (dBµV) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1 | | 0.294 | 49.756 | 39.854 | -10.655 | 60.411 | 9.902 | QP |
| 2 | | 0.294 | 42.279 | 32.377 | -8.132 | 50.411 | 9.902 | AV |
| 3 | | 0.738 | 44.873 | 34.921 | -11.127 | 56.000 | 9.952 | QP |
| 4 | * | 0.738 | 38.208 | 28.256 | -7.792 | 46.000 | 9.952 | AV |
| 5 | | 1.298 | 44.549 | 34.563 | -11.451 | 56.000 | 9.986 | QP |
| 6 | | 1.298 | 37.515 | 27.529 | -8.485 | 46.000 | 9.986 | AV |
| 7 | | 1.838 | 43.325 | 33.328 | -12.675 | 56.000 | 9.997 | QP |
| 8 | | 1.838 | 35.803 | 25.806 | -10.197 | 46.000 | 9.997 | AV |
| 9 | | 4.410 | 44.086 | 33.627 | -11.914 | 56.000 | 10.459 | QP |
| 10 | | 4.410 | 34.253 | 23.795 | -11.747 | 46.000 | 10.459 | AV |
| 11 | | 6.430 | 44.231 | 33.538 | -15.769 | 60.000 | 10.693 | QP |
| 12 | | 6.430 | 34.657 | 23.963 | -15.343 | 50.000 | 10.693 | AV |

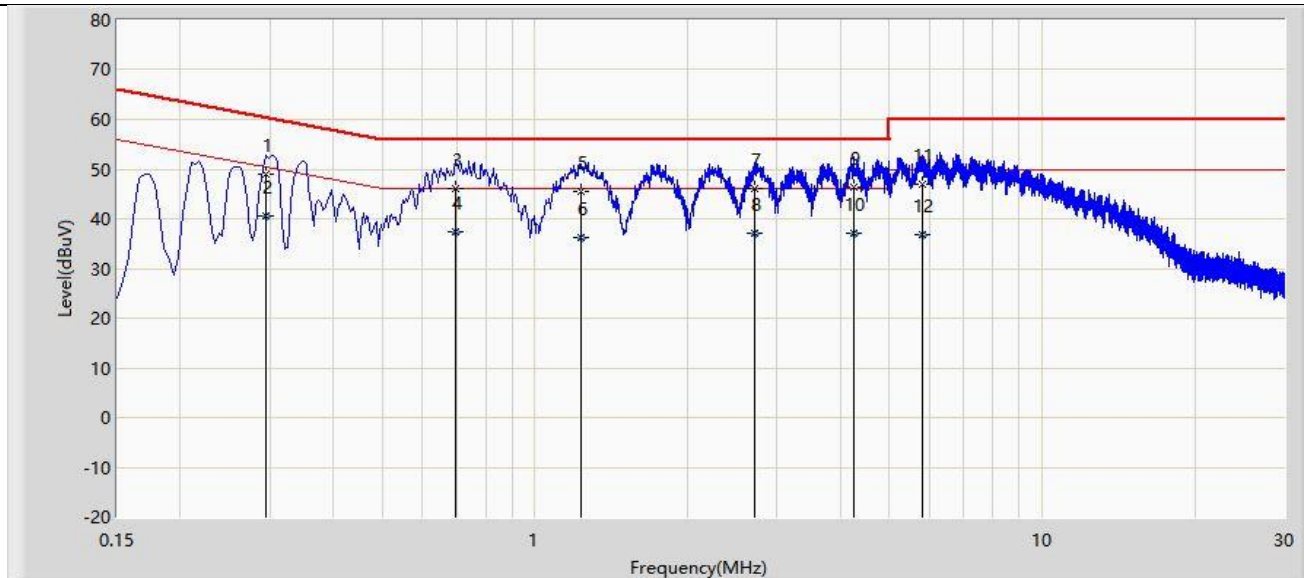
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV) = Reading Level (dBµV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

| | |
|---|-----------------------|
| Site: WZ-SR2 | Test Date: 2022-12-21 |
| Limit: FCC_Part15.107_CE_AC Power_Class B | Engineer: Helen Han |
| Probe: ENV216_101683_Filter Off_E | Polarity: Neutral |
| EUT: Wireless Microphone | Power: AC 120V/60Hz |

Test Mode: Transmit at channel 00



| No | Mark | Frequency (MHz) | Measure Level (dB μ V) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V) | Factor (dB) | Type |
|----|------|-----------------|----------------------------|----------------------------|-------------|--------------------|-------------|------|
| 1 | | 0.294 | 48.880 | 38.955 | -11.530 | 60.411 | 9.926 | QP |
| 2 | | 0.294 | 40.697 | 30.772 | -9.713 | 50.411 | 9.926 | AV |
| 3 | | 0.698 | 45.988 | 36.010 | -10.012 | 56.000 | 9.978 | QP |
| 4 | * | 0.698 | 37.386 | 27.408 | -8.614 | 46.000 | 9.978 | AV |
| 5 | | 1.234 | 45.480 | 35.476 | -10.520 | 56.000 | 10.005 | QP |
| 6 | | 1.234 | 36.339 | 26.335 | -9.661 | 46.000 | 10.005 | AV |
| 7 | | 2.714 | 46.044 | 35.884 | -9.956 | 56.000 | 10.160 | QP |
| 8 | | 2.714 | 37.203 | 27.043 | -8.797 | 46.000 | 10.160 | AV |
| 9 | | 4.262 | 46.487 | 36.023 | -9.513 | 56.000 | 10.465 | QP |
| 10 | | 4.262 | 37.072 | 26.607 | -8.928 | 46.000 | 10.465 | AV |
| 11 | | 5.806 | 46.953 | 36.281 | -13.047 | 60.000 | 10.672 | QP |
| 12 | | 5.806 | 36.850 | 26.178 | -13.150 | 50.000 | 10.672 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

6.3. Emission Bandwidth Measurement

6.3.1. Test Limit

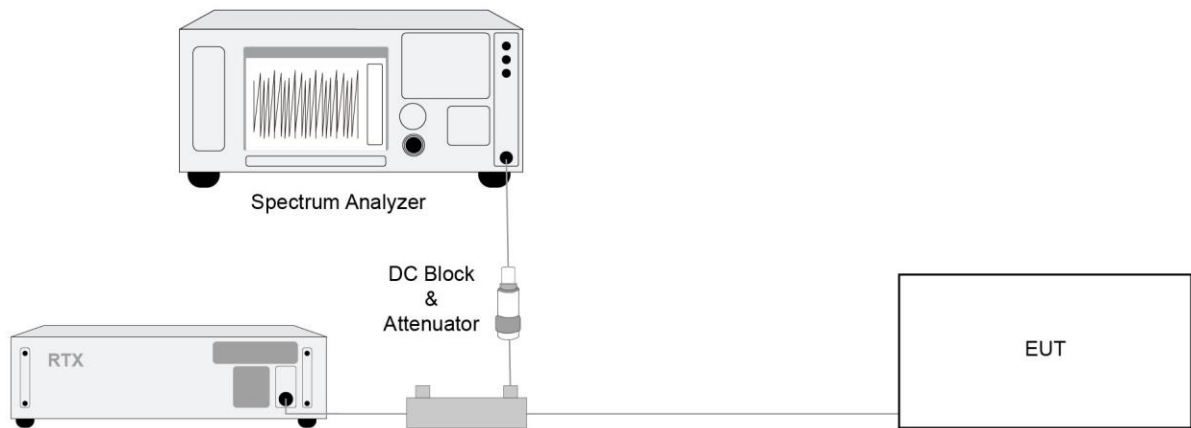
The 26 dB Bandwidth B shall be larger than 50 kHz and less than 2.5MHz.

No requirement for 6 dB and 12 dB Bandwidth. These values are only used for testing Monitoring Bandwidth if the Simple Compliance test fails (ANSI C63.17, clause 7.4).

6.3.2. Test Procedure

ANSI C63.17, Clause 6.1.3

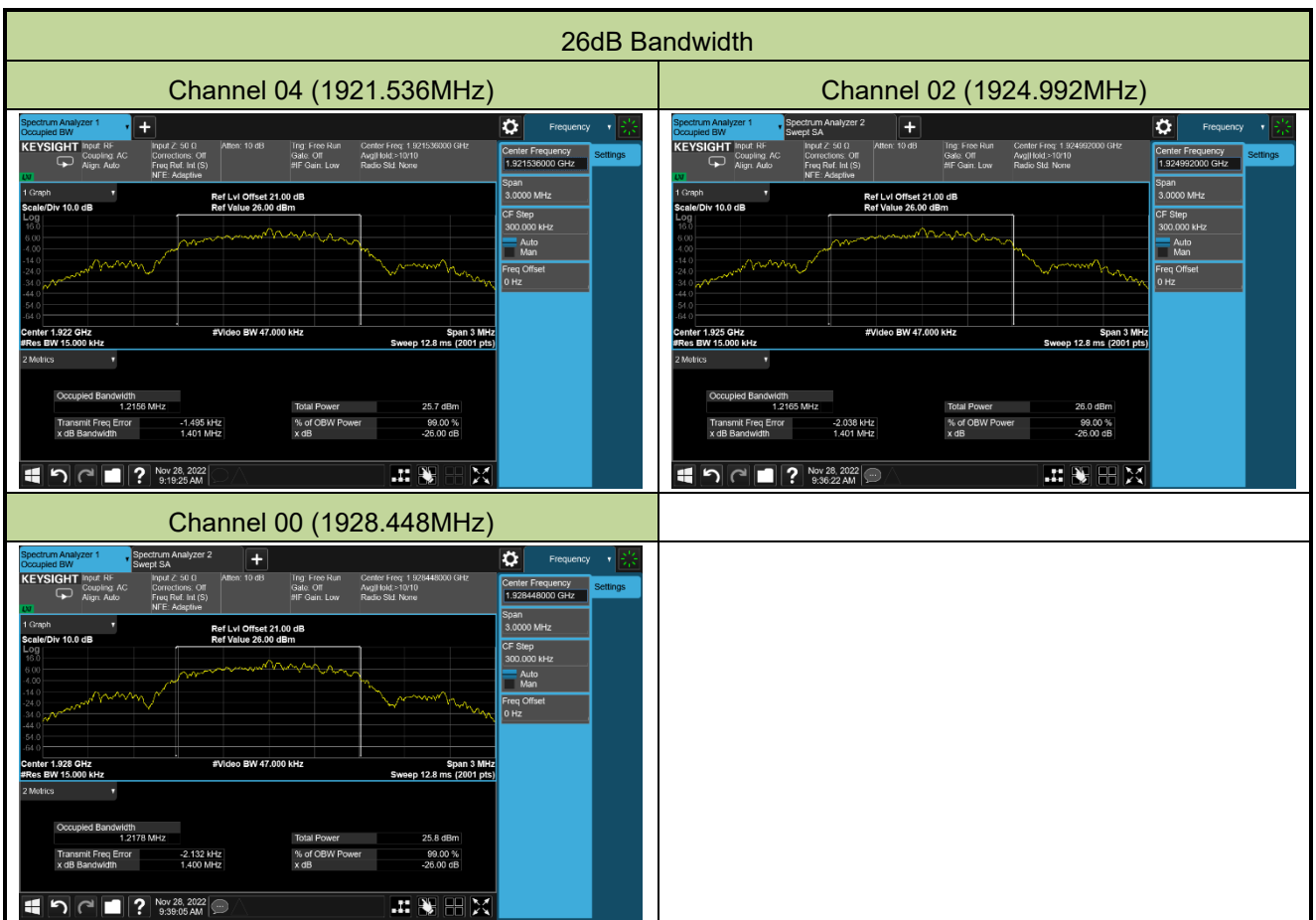
6.3.3. Test Setup



6.3.4. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-11-28 | | |

| Channel No. | Frequency (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Result |
|-------------|-----------------|----------------------|-------------|--------|
| 04 | 1921.536 | 1.401 | 0.05 ~ 2.5 | Pass |
| 02 | 1924.992 | 1.401 | 0.05 ~ 2.5 | Pass |
| 00 | 1928.448 | 1.400 | 0.05 ~ 2.5 | Pass |



6.4. Peak Transmit Power and Antenna Gain

6.4.1. Test Limit

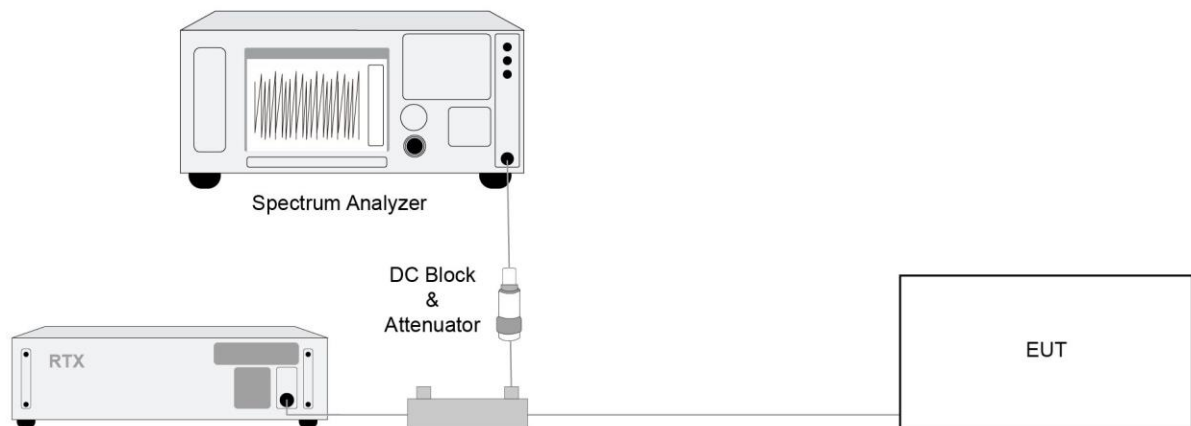
Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in Hertz.

The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3dBi.

6.4.2. Test Procedure

ANSI C63.17, Clause 6.1.2

6.4.3. Test Setup



6.4.4. Test Result

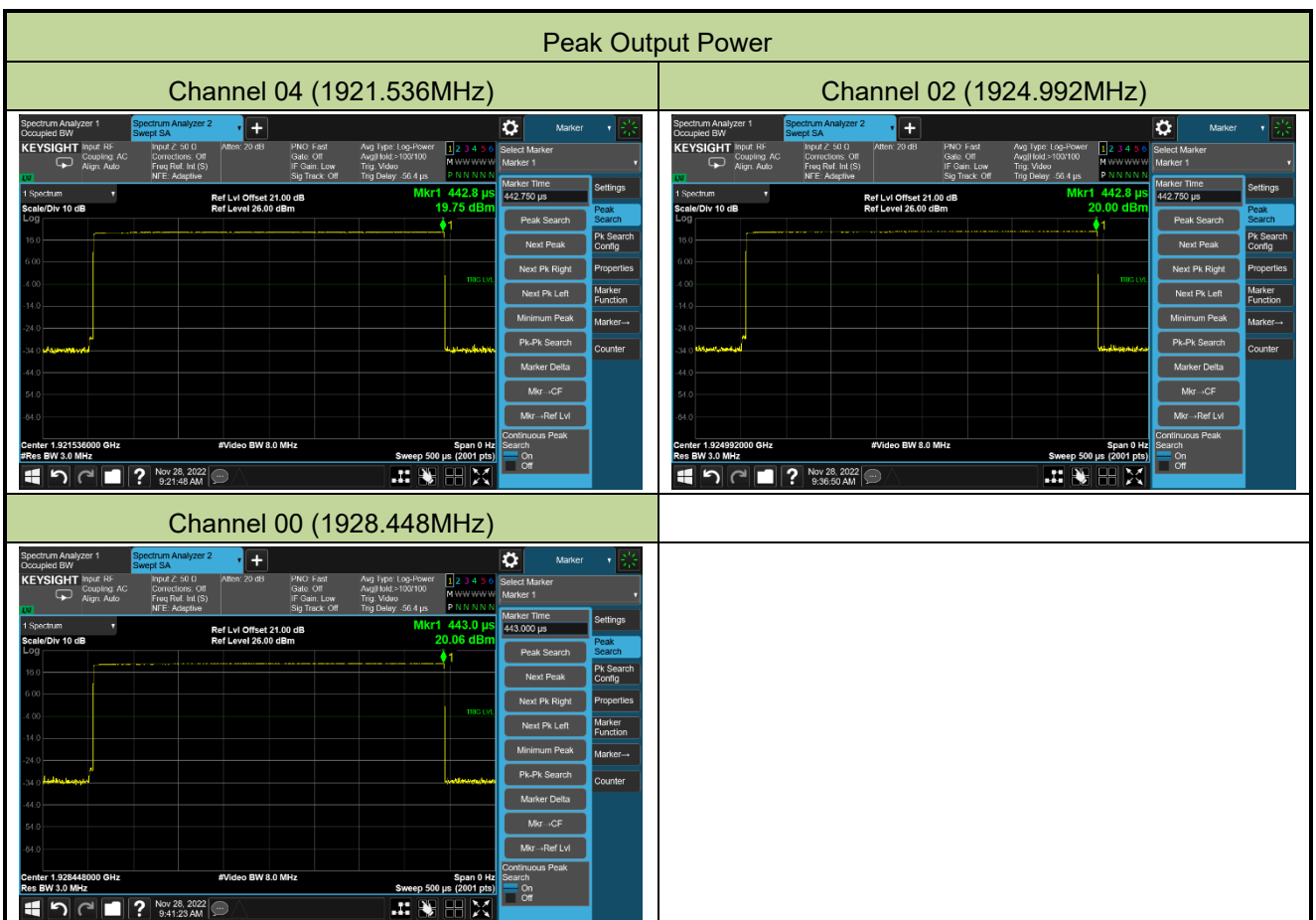
| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-11-28 | | |

| Channel No. | Frequency (MHz) | Peak Transmit Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------------|-------------|--------|
| 04 | 1921.536 | 19.75 | ≤ 20.73 | Pass |
| 02 | 1924.992 | 20.00 | ≤ 20.73 | Pass |
| 00 | 1928.448 | 20.06 | ≤ 20.73 | Pass |

Note 1: The min EBW = 1400000Hz

Limit = $10 * \log(100\mu W \times (EBW)^{1/2} \div 1000) = 20.73\text{dBm}$

Note 2: Antenna Gain = 1.72dBi < 3dBi



6.5. Power Spectral Density

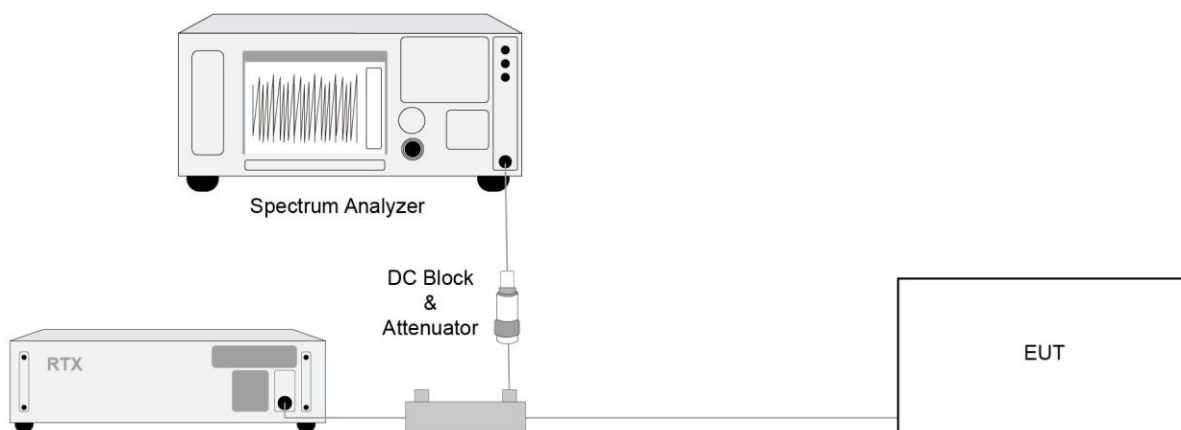
6.5.1. Test Limit

Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

6.5.2. Test Procedure

ANSI C63.17, Clause 6.1.5

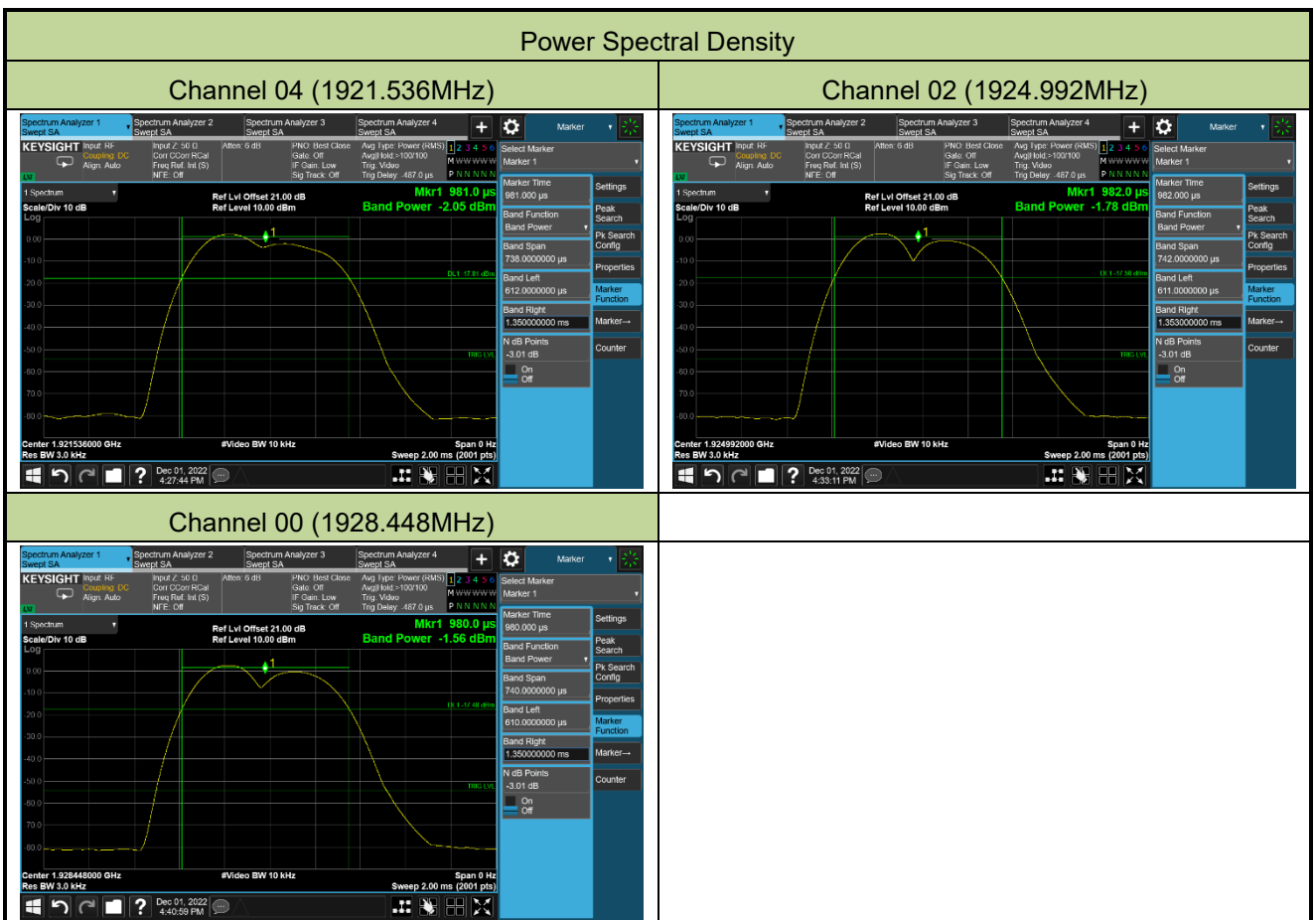
6.5.3. Test Setup



6.5.4. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-01 | | |

| Channel No. | Frequency (MHz) | Measured PSD (dBm / 3kHz) | Measured PSD (mW / 3kHz) | Limit (mW / 3kHz) | Result |
|-------------|-----------------|---------------------------|--------------------------|-------------------|--------|
| 04 | 1921.536 | -2.05 | 0.624 | ≤ 3.000 | Pass |
| 02 | 1924.992 | -1.78 | 0.664 | ≤ 3.000 | Pass |
| 00 | 1928.448 | -1.56 | 0.698 | ≤ 3.000 | Pass |



6.6. In-Band Unwanted Emissions

6.6.1. Test Limit

B < f2_2B: less than or equal to 30 dB below maximum permitted peak power level.

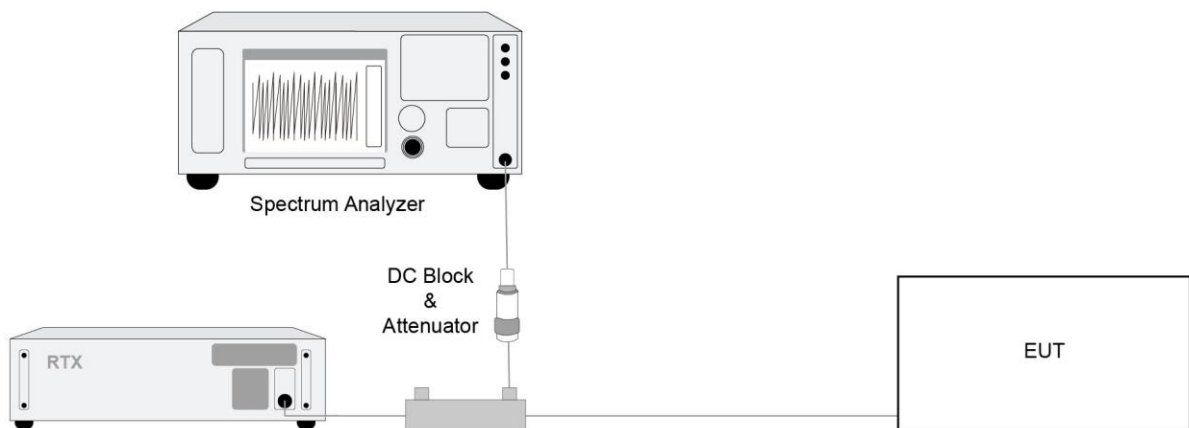
2B < f2_3B: less than or equal to 50 dB below maximum permitted peak power level.

3B < f2_DECT Band Edge: less than or equal to 60 dB below maximum permitted peak power level.

6.6.2. Test Procedure

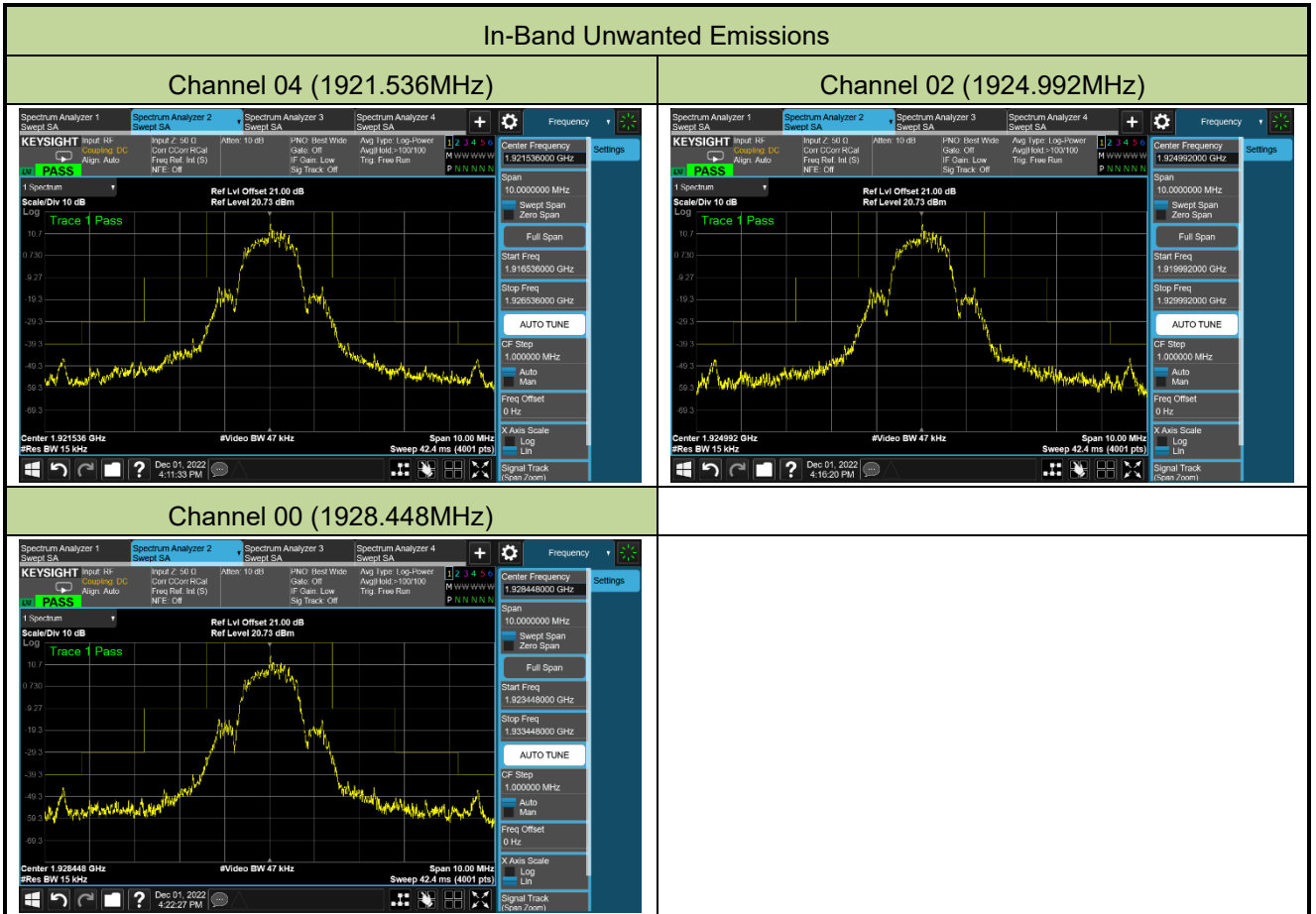
ANSI C63.17, Clause 6.1.6.1

6.6.3. Test Setup



6.6.4. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-01 | | |



6.7. Out-of-Band Emissions, Conducted

6.7.1. Test Limit

$f \leq 1.25$ MHz outside DECT band: ≤ -9.5 dBm

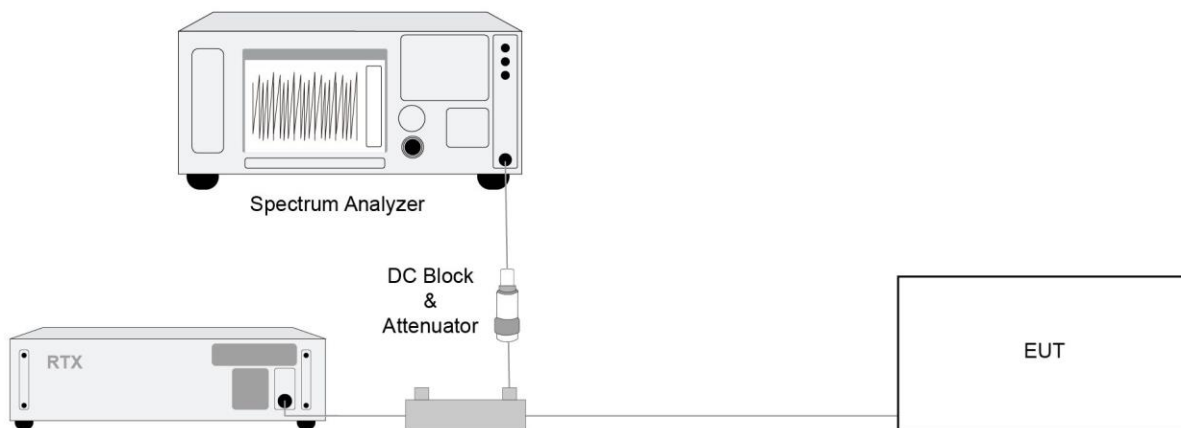
1.25 MHz $\leq f \leq 2.5$ MHz outside DECT band: ≤ -29.5 dBm

$f \leq 2.5$ MHz outside DECT band: ≤ -39.5 dBm

6.7.2. Test Procedure

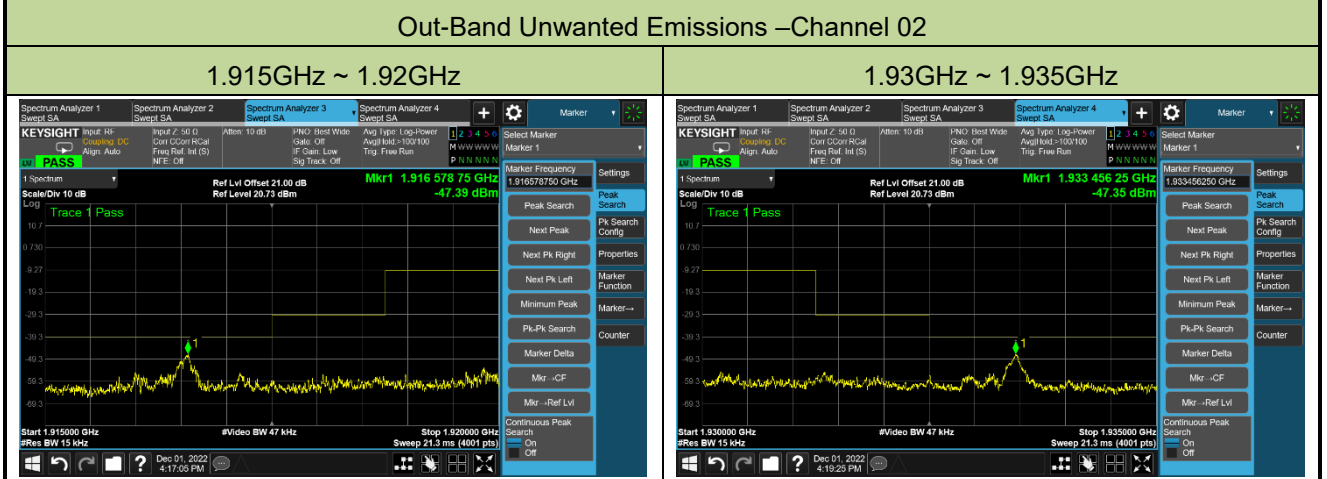
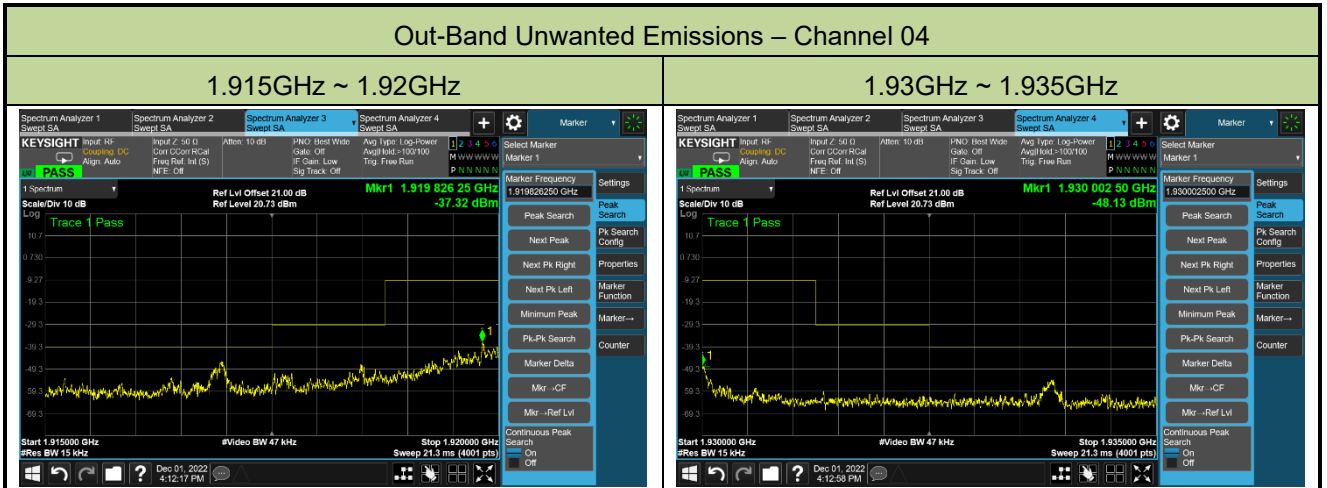
ANSI C63.17, Clause 6.1.6.2

6.7.3. Test Setup



6.7.4. Test Result

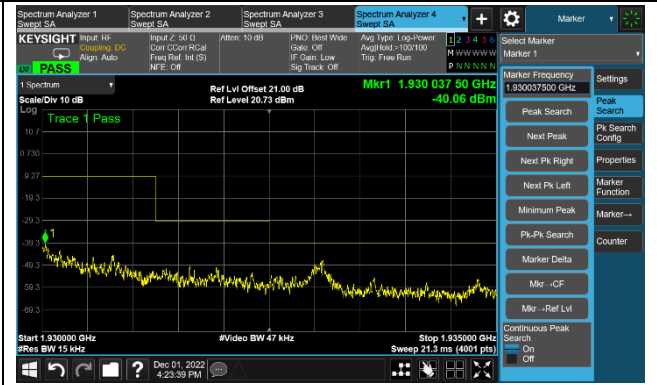
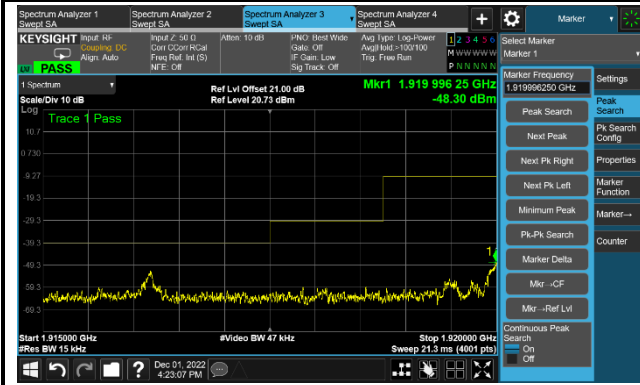
| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-01 | | |



Out-Band Unwanted Emissions –Channel 00

1.915GHz ~ 1.92GHz

1.93GHz ~ 1.935GHz



6.8. Radiated Spurious Emission Measurement

6.8.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|--|--------------------------|-------------------------------|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

6.8.2. Test Procedure

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

6.8.3. Test Setting

Table 1 - RBW as a function of frequency

| Frequency | RBW |
|---------------|---------------|
| 9 ~ 150 kHz | 200 ~ 300 Hz |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000 MHz | 1 MHz |

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

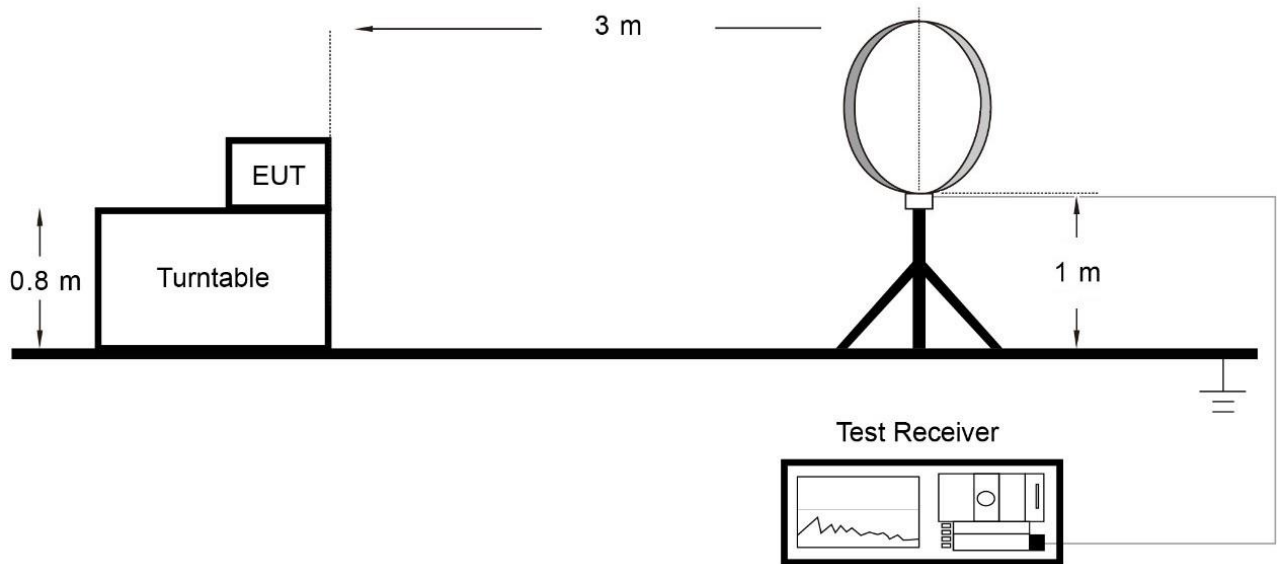
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

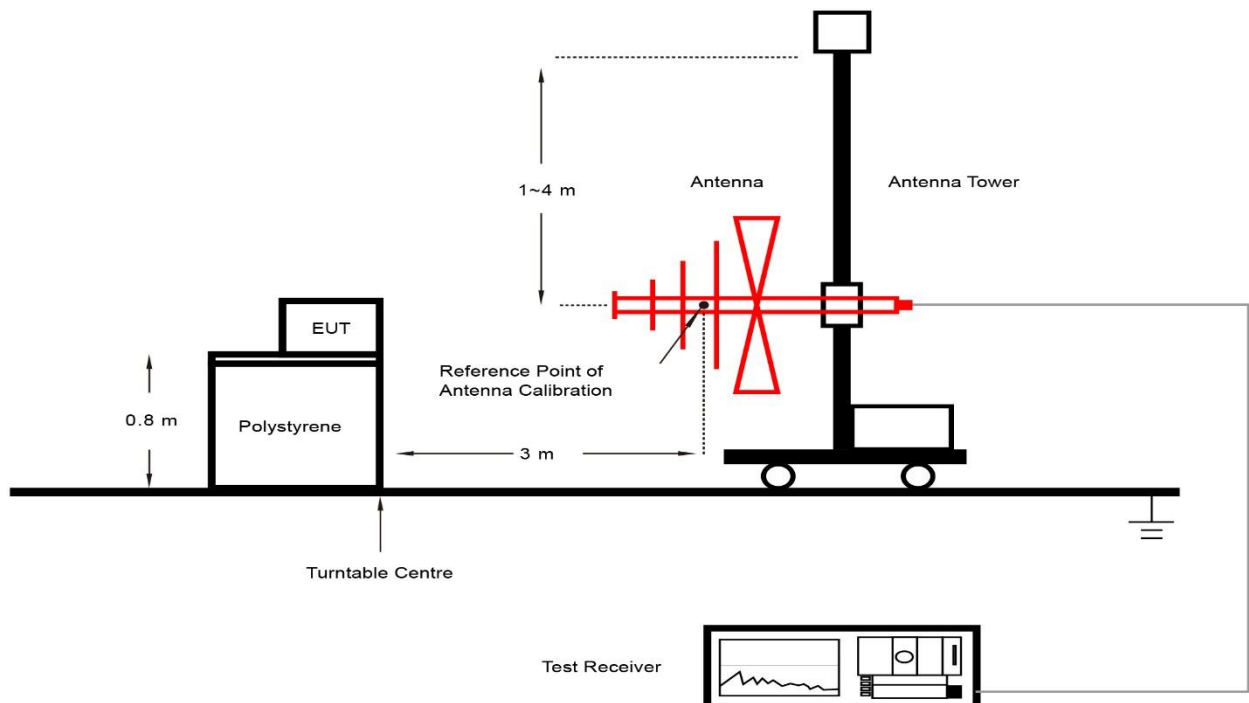
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.8.4. Test Setup

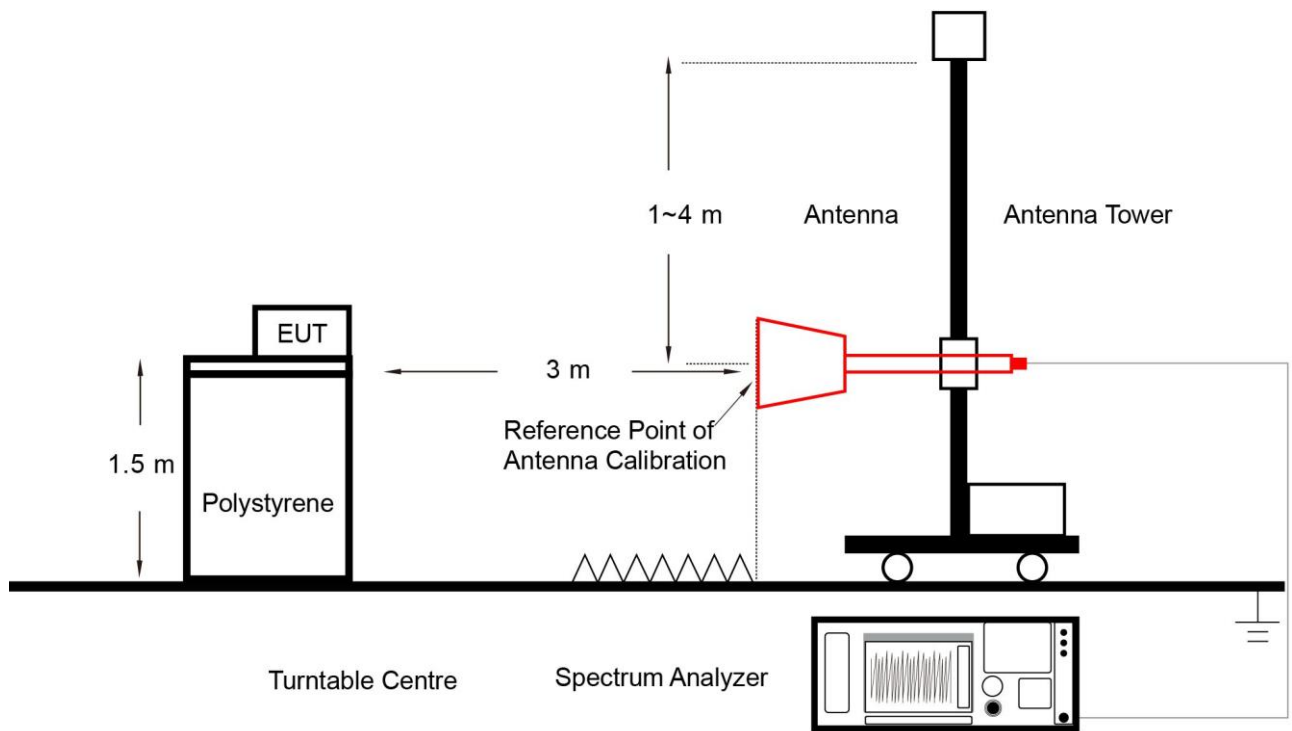
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.8.5. Test Result

| | | | |
|-----------|---|---------------|-----------|
| Test Site | WZ-AC2 | Test Engineer | Bob Zhang |
| Test Date | 2022-12-04 | Test Antenna | Antenna A |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Test Channel | Frequency (MHz) | Reading Level (dB μ V) | Factor (dB/m) | Measure Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------------|---------------|------------------------------|----------------------|-------------|----------|--------------|
| 00 | 4502.0 | 36.8 | 2.6 | 39.4 | 74.0 | -34.6 | Peak | Horizontal |
| | 7715.0 | 32.1 | 11.3 | 43.3 | 74.0 | -30.7 | Peak | Horizontal |
| | 8429.0 | 32.6 | 11.8 | 44.4 | 74.0 | -29.6 | Peak | Horizontal |
| | 3856.0 | 40.2 | -0.1 | 40.1 | 74.0 | -33.9 | Peak | Vertical |
| | 4731.5 | 34.4 | 4.5 | 38.9 | 74.0 | -35.1 | Peak | Vertical |
| | 8157.0 | 32.6 | 12.0 | 44.6 | 74.0 | -29.4 | Peak | Vertical |
| 02 | 4663.5 | 34.5 | 4.1 | 38.6 | 74.0 | -35.4 | Peak | Horizontal |
| | 7689.5 | 33.1 | 11.1 | 44.2 | 74.0 | -29.8 | Peak | Horizontal |
| | 11115.0 | 31.3 | 17.2 | 48.5 | 74.0 | -25.5 | Peak | Horizontal |
| | 4255.5 | 36.3 | 1.6 | 37.9 | 74.0 | -36.1 | Peak | Vertical |
| | 4825.0 | 35.6 | 4.0 | 39.6 | 74.0 | -34.4 | Peak | Vertical |
| | 11149.0 | 32.0 | 17.1 | 49.0 | 74.0 | -25.0 | Peak | Vertical |
| 04 | 3949.5 | 36.2 | 0.2 | 36.5 | 74.0 | -37.5 | Peak | Horizontal |
| | 4723.0 | 35.6 | 4.4 | 40.0 | 74.0 | -34.0 | Peak | Horizontal |
| | 11429.5 | 31.2 | 17.7 | 48.9 | 74.0 | -25.1 | Peak | Horizontal |
| | 3839.0 | 38.6 | -0.2 | 38.4 | 74.0 | -35.6 | Peak | Vertical |
| | 4714.5 | 35.0 | 4.5 | 39.4 | 74.0 | -34.6 | Peak | Vertical |
| | 11599.5 | 30.7 | 17.8 | 48.5 | 74.0 | -25.5 | Peak | Vertical |

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| | | | |
|-----------|---|---------------|-----------|
| Test Site | WZ-AC2 | Test Engineer | Bob Zhang |
| Test Date | 2023-05-18 | Test Antenna | Antenna B |
| Remark | 1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

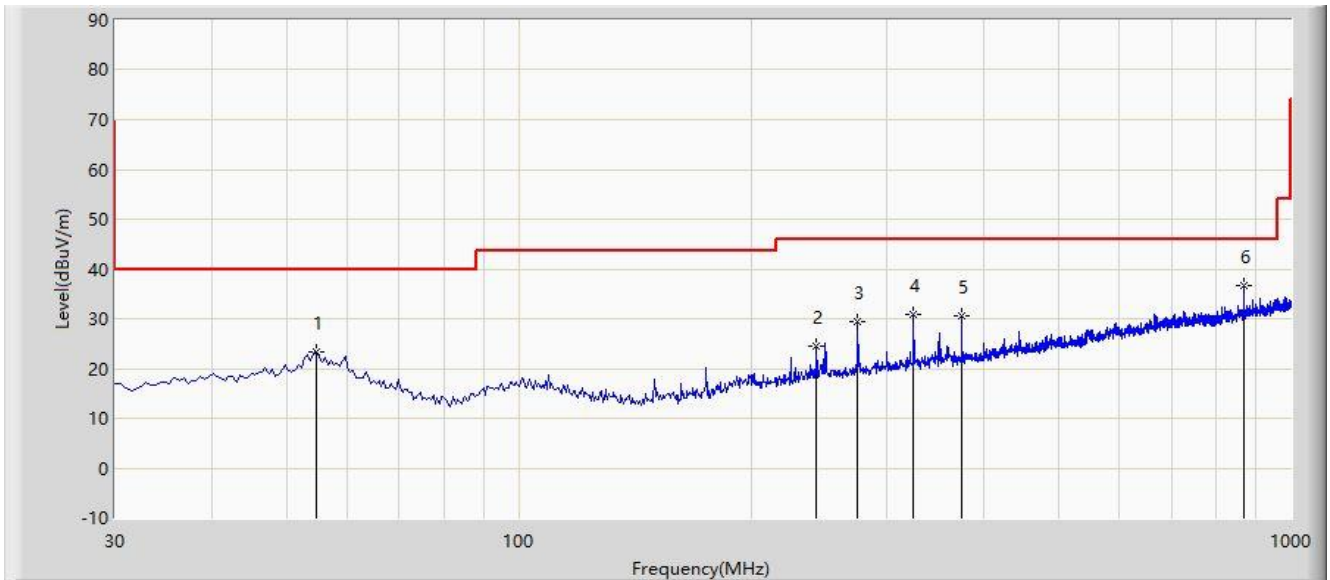
| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 00 | 3856.0 | 38.9 | -0.2 | 38.7 | 74.0 | -35.3 | Peak | Horizontal |
| | 4689.0 | 34.8 | 3.8 | 38.6 | 74.0 | -35.4 | Peak | Horizontal |
| | 11574.0 | 32.8 | 17.6 | 50.4 | 74.0 | -23.6 | Peak | Horizontal |
| | 3856.0 | 43.8 | -0.2 | 43.6 | 74.0 | -30.4 | Peak | Vertical |
| | 8199.5 | 32.0 | 11.4 | 43.4 | 74.0 | -30.6 | Peak | Vertical |
| | 11565.5 | 31.0 | 17.7 | 48.7 | 74.0 | -25.3 | Peak | Vertical |
| 02 | 3847.5 | 39.1 | -0.3 | 38.8 | 74.0 | -35.2 | Peak | Horizontal |
| | 7536.5 | 32.1 | 11.9 | 44.0 | 74.0 | -30.0 | Peak | Horizontal |
| | 11480.5 | 30.9 | 17.5 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| | 3847.5 | 39.9 | -0.3 | 39.6 | 74.0 | -34.4 | Peak | Vertical |
| | 7434.5 | 30.1 | 11.9 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| | 11548.5 | 30.2 | 17.7 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| 04 | 3847.5 | 38.0 | -0.3 | 37.7 | 74.0 | -36.3 | Peak | Horizontal |
| | 7443.0 | 31.6 | 12.0 | 43.6 | 74.0 | -30.4 | Peak | Horizontal |
| | 11523.0 | 32.6 | 17.1 | 49.7 | 74.0 | -24.3 | Peak | Horizontal |
| | 3847.5 | 42.3 | -0.3 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| | 6329.5 | 33.1 | 6.0 | 39.1 | 74.0 | -34.9 | Peak | Vertical |
| | 11531.5 | 30.1 | 17.3 | 47.4 | 74.0 | -26.6 | Peak | Vertical |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Result of Radiated Emission below 1GHz:

| | |
|--|-----------------------|
| Site: WZ-AC2 | Test Data: 2022-12-04 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: Bob Zhang |
| Probe: VULB9162_30-7000MHz | Polarity: Horizontal |
| EUT: Wireless Microphone | Power: By Battery |
| Test Mode: Transmit at channel 00 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB/m) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1 | | | 54.735 | 23.329 | 3.042 | -16.671 | 40.000 | 20.287 | PK |
| 2 | | | 242.915 | 24.589 | 4.742 | -21.411 | 46.000 | 19.847 | PK |
| 3 | | | 274.925 | 29.436 | 9.104 | -16.564 | 46.000 | 20.332 | PK |
| 4 | | | 324.880 | 30.753 | 9.293 | -15.247 | 46.000 | 21.460 | PK |
| 5 | | | 374.835 | 30.518 | 7.848 | -15.482 | 46.000 | 22.670 | PK |
| 6 | | * | 869.535 | 36.536 | 5.760 | -9.464 | 46.000 | 30.776 | PK |

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m)

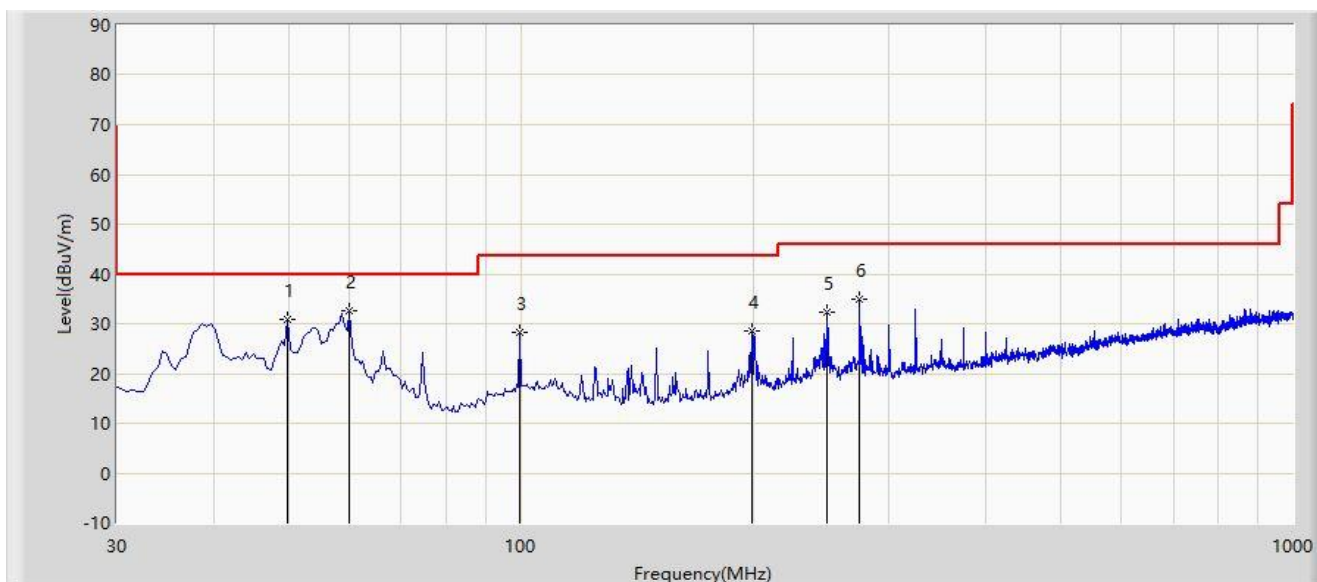
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 20GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

| | |
|--|-----------------------|
| Site: WZ-AC2 | Test Data: 2022-12-04 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: Bob Zhang |
| Probe: VULB9162_30-7000MHz | Polarity: Vertical |
| EUT: Wireless Microphone | Power: By Battery |
| Test Mode: Transmit at channel 00 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB/m) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1 | | | 49.885 | 30.897 | 10.487 | -9.103 | 40.000 | 20.410 | PK |
| 2 | | * | 60.070 | 32.522 | 12.958 | -7.478 | 40.000 | 19.564 | PK |
| 3 | | | 99.840 | 28.120 | 9.621 | -15.380 | 43.500 | 18.499 | PK |
| 4 | | | 199.265 | 28.686 | 9.868 | -14.814 | 43.500 | 18.818 | PK |
| 5 | | | 249.705 | 32.344 | 12.400 | -13.656 | 46.000 | 19.944 | PK |
| 6 | | | 274.925 | 35.002 | 14.670 | -10.998 | 46.000 | 20.332 | PK |

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 20GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

6.9. Frame Repetition Stability and Period and Jitter

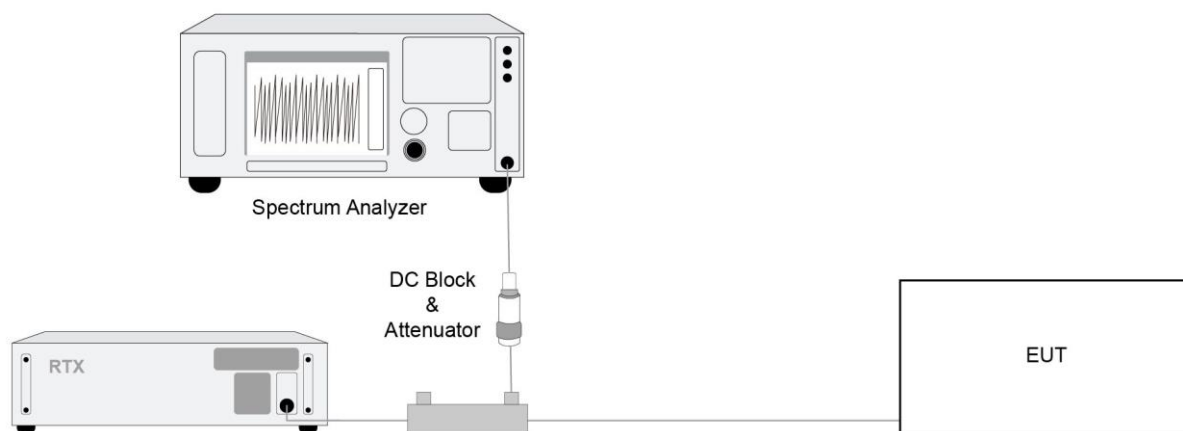
6.9.1. Test Limit

The frame period (a set of consecutive time slots in which the position of each time slot can be identified by reference to a synchronizing source) of an intentional radiator operating in this band shall be 20 milliseconds or 10 milliseconds/X where X is a positive whole number. Each device that implements time division for the purposes of maintaining a duplex connection on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 50 parts per million (ppm). Each device which further divides access in time in order to support multiple communication links on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 10 ppm. The jitter (time-related, abrupt, spurious variations in the duration of the frame interval) introduced at the two ends of such a communication link shall not exceed 25 microseconds for any two consecutive transmissions. Transmissions shall be continuous in every time and spectrum window during the frame period defined for the device.

6.9.2. Test Procedure

ANSI C63.17, Clause 6.2.2 & 6.2.3

6.9.3. Test Setup



6.9.4. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-04 | | |

| Carrier Frequency (MHz) | Frame Repetition Stability (ppm) | | | | | Limit (ppm) |
|----------------------------|----------------------------------|------|----------------------------|------|------|-------------|
| | Standard deviation | | Frame Repetition Stability | | | |
| 1924.992 | 0.170 | | 0.510 | | | ±10 |
| Carrier Frequency (MHz) | Frame Jitter (us) | | | | | Limit (us) |
| | min | mean | max | △min | △max | |
| 1924.992 | -0.1 | 0 | 0.1 | -0.1 | 0.1 | ±25 |

6.10. Carrier Frequency Stability

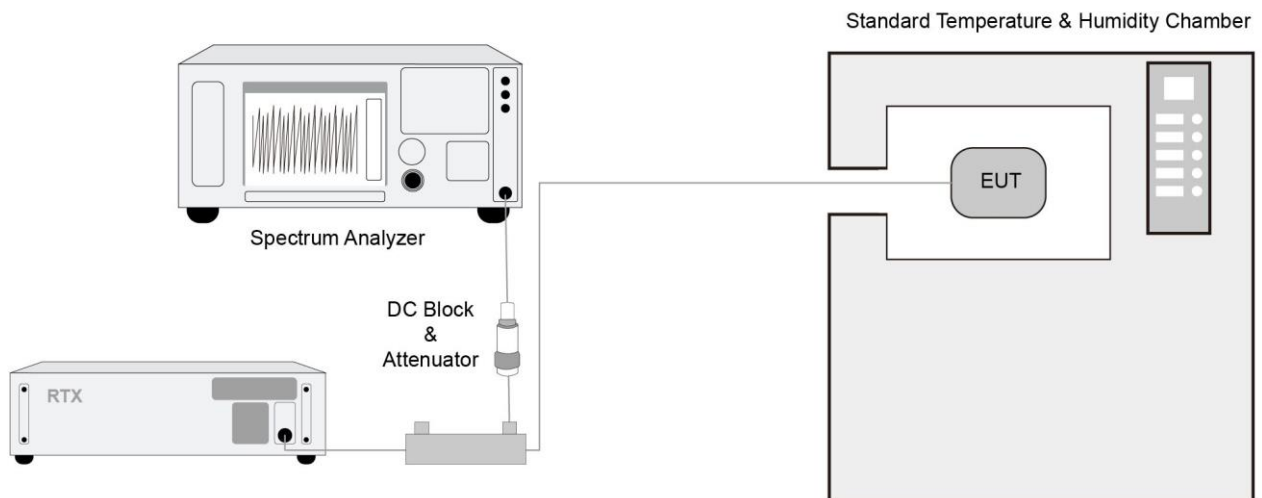
6.10.1. Test Limit

Per §15.323(f), the frequency stability of the carrier frequency of the intentional radiator shall be maintained within ± 10 ppm over 1 hour or the interval between channel access monitoring, whichever is shorter. The frequency stability shall be maintained over a temperature variation of -20°C to $+50^{\circ}\text{C}$ at normal supply voltage, and over a variation in the primary supply voltage of 85 percent to 115 percent of the rated supply voltage at a temperature of 20°C . For equipment that is capable only of operating from a battery, the frequency stability tests shall be performed using a new battery without any further requirement to vary supply voltage.

6.10.2. Test Procedure

ANSI C63.17, Clause 6.2.1

6.10.3. Test Setup



6.10.4. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-TR3 | Test Engineer | Dandy Li |
| Test Date | 2022-12-05 | | |

Carrier Frequency Stability over Time at Nominal Temperature

| Average Mean Carrier Frequency (MHz) | Max. Diff. (kHz) | Min. Diff. (kHz) | Max Dev. (ppm) | Limit (ppm) |
|--------------------------------------|------------------|------------------|----------------|-------------|
| 1924.99446 | 7.2 | 0.9 | 2.46 | ±10 |

Carrier Frequency Stability over Temperature

| Voltage | Average Mean Carrier Frequency (MHz) | Max. Diff (kHz) | Deviation (ppm) | Limit (ppm) |
|-----------|--------------------------------------|-----------------|-----------------|-------------|
| T = +20°C | 1924.99325 | Ref | Ref | ±10 |
| T = 0°C | | 7.0 | 2.36 | |
| T = +50°C | | 6.8 | 2.25 | |

Note 1: Mean. Diff = Average Mean Carrier Frequency – Carrier Frequency

Deviation ppm = ((Max. Diff. - Mean. Diff.) / Mean Carrier Freq.) x 10⁶.

Note 2: This sample is powered by batteries, so the stability over power supply voltage is not applicable.

6.11. Listen Before Transmit (LBT)

6.11.1. Test Limit

Monitoring Time Requirements

Immediately prior to initiating transmission, devices must monitor the combined time and spectrum window in which they intend to transmit. For a period of at least 10 milliseconds for systems designed to use a 10 milliseconds or shorter frame period or at least 20 milliseconds for systems designed to use a 20 milliseconds frame period.

Monitoring Threshold

The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth of the device.

Calculation of monitoring threshold limits for isochroous devices:

Monitoring threshold: $T_L = -174 + 10 \log_{10} B + M_u + P_{MAX} - P_{EUT}$ (dBm)

Where: B=Emission bandwidth (Hz)

M_u =dB the threshold may exceed thermal noise (30dB)

$P_{MAX} = 5 * \log_{10} B - 10$ (dBm)

P_{EUT} =Transmitted power (dBm)

| Monitor Threshold | B (MHz) | M_u (dB) | P_{MAX} (dBm) | P_{EUT} (dBm) | Threshold (dBm) |
|-------------------|---------|------------|-----------------|-----------------|-----------------|
| T_L | 1.393 | 30 | 20.72 | 20.58 | -82.42 |

The EUT must not transmit until the interference level is less than or equal to:

Measured Threshold Level $\leq T_L + U_m = -82.42 + 6 = -76.42$ dBm

Maximum Transmit Period

If no signal above the threshold level is detected, transmission may commence and continue with the same emission bandwidth in the monitored time and spectrum windows without further monitoring. However, occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 h is not permitted without repeating the access criteria.

System Acknowledgement

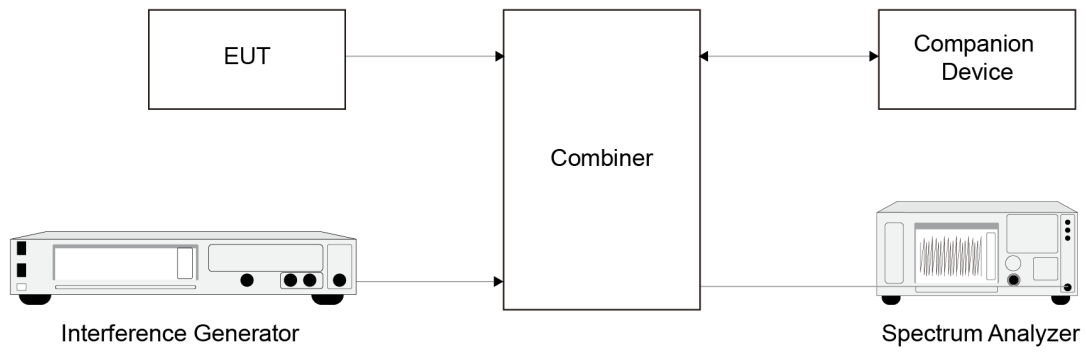
Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgements must be received at least every 30 s or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 s without receiving an

acknowledgement, at which time the access criteria must be repeated.

6.11.2. Test Procedure

ANSI C63.17, Clause 7.3 & 8.2.

6.11.3. Test Setup



6.11.4. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-04 | | |

Monitoring Time Requirements

| Interference ref. to ANSI C63.17 clause 7.3.3 | Reaction of EUT | Results |
|--|---------------------|---------|
| Apply the interference on f1 at level $T_L + U_M + 20$, and no interference on f2. Initiate transmission and verify the transmission on f2. | EUT transmits on f2 | Pass |
| Apply the interference on f2 at level $T_L + U_M + 20$, at the same time, no interference on f1. After about 20ms, initiate transmission and verify the transmission on f1. | EUT transmits on f1 | Pass |

Monitoring Threshold Requirements

The test is not applicable, because the EUT supports at least of 20 duplex system access channels and implements Least Interfered Channel (LIC) algorithm.

Maximum Transmit Period

| Test ref. to ANSI C63.17 clause 8.2.2 | Observation | Verdict |
|---|--|---------|
| Transmission duration on same time and frequency window | Only for initiating device that controls which time slot is used | N/A |

System Acknowledgements

| Test ref. to ANSI C63.17 clause 8.2.1 | Observation | Verdict |
|--|---|---------|
| Initial transmission without acknowledgements | Not applicable for EUT that transmits control and signaling information | N/A |
| Transmission time after loss of acknowledgements | 5.0 sec | Pass |

6.12. Least Interfered Channel (LIC) Requirements

6.12.1. Test Limit

LIC Selection

If access to spectrum is not available as determined by the above, and a minimum of 20 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level may be accessed.

Least Interfered Channel Confirmation

A device utilizing the provisions of this paragraph must have monitored all access channels defined for its system within the last 10 s and must verify, within the 20ms (40ms for devices designed to use a 20 ms frame period) immediately preceding actual channel access, that the detected power of the selected time and spectrum windows is no higher than the previously detected value.

Power Measurement Resolution

The power measurement resolution for this comparison must be accurate to within 6dB.

Maximum Spectrum Occupancy

No device or group of co-operating devices located within 1 m of each other shall, during any frame period, occupy more than 6 MHz of aggregate bandwidth, or alternatively, more than one third of the time and spectrum windows defined by the system.

6.12.2. Test Procedure

ANSI C63.17, Clause 7.3.2 & 7.3.3

6.12.3. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-06 | | |

LIC Selection

The customer claims the product supports a minimum of 20 duplex system access channels.

Least Interfered Channel Confirmation

The test result is reported in section 6.11.

Power Measurement Resolution

| Test ref. to ANSI C63.17 clause 7.3.2 | Observation | Verdict |
|--|-----------------------|---------|
| b) Apply interference to the EUT on f_1 at a level of $T_L + U_M + 7\text{dB}$ and on f_2 at a level of $T_L + U_M$. Initiate transmission. The EUT should transmit on f_2 . Terminate the connection. Repeat five times. | EUT transmit on f_2 | Pass |
| c) Apply interference to the EUT on f_1 at a level of $T_L + U_M$ and on f_2 at a level of $T_L + U_M + 7\text{dB}$. Initiate transmission. The EUT should transmit on f_1 . Terminate the connection. Repeat five times. | EUT transmit on f_1 | Pass |
| d) Apply interference to the EUT on f_1 at a level of $T_L + U_M + 1\text{dB}$ and on f_2 at a level of $T_L + U_M - 6\text{dB}$. Initiate transmission. If the EUT transmits on f_2 , terminate the connection. Repeat five times. | EUT transmit on f_2 | Pass |
| e) Apply interference to the EUT on f_1 at a level of $T_L + U_M + 1\text{dB}$ and on f_2 at a level of $T_L + U_M - 6\text{dB}$. Initiate transmission. If the EUT transmits on f_2 , terminate the connection. Repeat five times. | EUT transmit on f_1 | Pass |

Maximum Spectrum Occupancy

According to the technical description provided, the total number of the time and spectrum windows defined by the system is more than 20.

During any frame period, the maximum number of different channels will be 5, which is less than one third of the time and spectrum windows defined by the system.

6.13. Random waiting Requirements

6.13.1. Test Limit

If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same window after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.

6.13.2. Test Procedure

ANSI C63.17, Clause 8.1.3

6.13.3. Test Result

For systems that do implement the LIC algorithm and offer at least 20 duplex communications channels, the test is not applicable.

6.14. Monitoring Requirements

6.14.1. Test Limit

Threshold and LIC Monitoring Bandwidth

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission.

Reaction Time and Monitoring Interval

The monitoring system shall have a maximum reaction time less than $50 \times \text{SQRT}(2.5/\text{emission bandwidth in MHz}) \mu\text{s}$ for signals at the applicable threshold level but shall not be required to be less than $50\mu\text{s}$. If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall be $35 \times \text{SQRT}(2.5/\text{emission bandwidth in MHz}) \mu\text{s}$ but shall not be required to be less than $35\mu\text{s}$. and have a maximum reaction time less than $50 \times \text{SQRT}(1.25/\text{emission bandwidth in MHz})$ microseconds for signals at the applicable threshold level but shall not be required to be less than 50 microseconds.

6.14.2. Test Procedure

ANSI C63.17, Clause 7.4 & 7.5

6.14.3. Test Result

| | | | |
|-----------|------------|---------------|----------|
| Test Site | WZ-SR4 | Test Engineer | Dandy Li |
| Test Date | 2022-12-06 | | |

Monitoring Bandwidth

Monitoring bandwidth of the EUT is equal to the occupied bandwidth of the intended transmission.

Monitoring is made through the radio receiver used by the EUT for communication.

Monitoring Reaction Time

| Test Equation (μs) | B (MHz) | Pulse width(μs) |
|---------------------------------|---------|------------------------------|
| $50 (1.25/B)^{1/2}$ | 1.400 | 47.25 |
| $25 (1.25/B)^{1/2}$ | 1.400 | 23.62 |

| Test ref. to ANSI C63.17 clause 7.5 | Observation | Verdict |
|--|-----------------------|---------|
| 1) Additionally apply a CW signal on f_2 at the level T_L and interference pulse on f_1 at level T_L+U_M to the receive port of the EUT. Verify that the EUT establishes a connection only on f_2 when the width of the interference pulse exceeds $50\mu\text{s}$. | EUT transmit on f_2 | Pass |
| 2) Change the time-synchronized, pulsed interference on f_1 to the level $T_L + U_M + 6\text{dB}$. Verify that the EUT establishes a connection only on f_2 when the width of the interference pulse exceeds $35\mu\text{s}$. | EUT transmit on f_2 | Pass |

6.15. Monitoring Antenna Requirements**6.15.1. Test Limit**

The monitoring system shall use the same antenna used for transmission, or an antenna that yields equivalent reception at that location.

6.15.2. Test Procedure

ANSI C63.17 Clause 4

6.15.3. Test Result

The antenna of the EUT used for transmission is the same interior antenna that used for monitoring.

6.16. Monitoring Threshold Relaxation Requirements

6.16.1. Test Limit

Devices that have a power output Lowest than the maximum permitted under the rules can increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

6.16.2. Test Procedure

ANSI C63.17 Clause 4

6.16.3. Test Result

The test is not applicable. Because the EUT supports at least of 20 duplex system access channels and implements Least Interfered Channel (LIC) algorithm, so the monitoring threshold is not applicable.

6.17. Duplex System LBT

6.17.1. Test Limit

An initiating device may attempt to establish a duplex connection by monitors both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

6.17.2. Test Procedure

ANSI C63.17, Clause 8.3.1 & 8.3.2

6.17.3. Test Result

The test is not applicable. Because the test is only applicable for EUT that can be initiating device.

6.18. Alternative monitoring interval for co-located devices Requirements

6.18.1. Test Limit

An initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a co-located (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The monitored time and spectrum window must total at least 50 percent of the 10 milliseconds frame interval and the monitored spectrum must be within 1.25 MHz of the center frequency of channel(s) already occupied by that device or co-located co-operating devices. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in the intended transmit window by the initiating device may commence.

6.18.2. Test Procedure

ANSI C63.17, Clause 8.4

6.18.3. Test Result

The test is not applicable. Because the test is only applicable for EUT that can be initiating device.

6.19. Fair Access**6.19.1. Test Limit**

The provisions of (c)(10) or (c)(11) shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.

6.19.2. Test Result

The test is not applicable. Because the test is only applicable for EUT that can be initiating device.

6.20. Automatic Discontinuation of Transmission

| | | |
|--|--|---|
| Does the EUT transmit Control and Signaling Information? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the EUT support Least Interfered Channel algorithm? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Type of EUT | <input type="checkbox"/> Initiating Device | <input checked="" type="checkbox"/> Responding Device |

The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

| Number | Test | EUT Reaction | Verdict |
|--------|-------------------------------------|--------------|---------|
| 1 | Power Removed from EUT | A | Pass |
| 2 | Switch off EUT | N/A | Pass |
| 3 | Power Removed from Companion Device | B | Pass |
| 4 | Switch off Companion Device | B | Pass |

A - Connection breakdown, Cease of all transmissions

B - Connection breakdown, EUT transmits control and signaling information

C - Connection breakdown, Companion Device transmits control and signaling information

N/A - Not Applicable (EUT does not have on/off switch)

Requirements, FCC 15.319(f)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Appendix A - Test Setup Photograph

Refer to "2211RSU056-UT" file.

Appendix B - EUT Photograph

Refer to "2211RSU056-UE" file.

_____ The End _____