
FCC Test Report

Report No.:AGC02294201003FE10

FCC ID : 2AJGM-F19

PRODUCT DESIGNATION : Two-way radio

BRAND NAME : POFUNG, BAOFENG

MODEL NAME : F19, BF-T19, PR-19, 19E, AR19, VT-19

APPLICANT : PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY

DATE OF ISSUE : Dec. 18, 2020

STANDARD(S) : FCC Part 95 Rules

REPORT VERSION : V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Dec. 18, 2020 | Valid | Initial release |

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VERIFICATION OF COMPLIANCE

| | |
|---------------------------------|--|
| Applicant | PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY |
| Address | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong |
| manufacturer | PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY |
| Address | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong |
| Factory | PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY |
| Address | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong |
| Product Designation: | PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY |
| Brand Name: | POFUNG, BAOFENG |
| Test Model | F19 |
| Series Model | BF-T19, PR-19, 19E, AR19,VT-19 |
| Difference Description | All the same except the model name |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Date of Test: | Oct. 28, 2020~Dec. 18, 2020 |
| Test Result | PASS |
| Report Template | AGCRT-US-PTT/RF |

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 95 requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Donjon Huang
(Project Engineer)

Dec. 18, 2020

Reviewed By



Calvin Liu
(Reviewer)

Dec. 18, 2020

Approved By



Forrest Lei
Authorized Officer

Dec. 18, 2020

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is a **Two-way radio** designed for voice communication. It is designed by way of utilizing the FM modulation achieves the system operating.

A major technical description of EUT is described as following:

| | |
|---------------------------------------|---|
| Communication Type | Voice/Tone only |
| Product Designation | Two-way radio |
| Test Model | POFUNG, BAOFENG |
| Hardware Version | BF-T19-A21-V1.3 |
| Software Version | V1.0.8 |
| Modulation | FM |
| Channel Separation | 12.5KHz |
| Emission Type | 11K0F3E |
| Emission Bandwidth | 10.58KHz |
| Maximum Transmitter Power | 32.29dBm |
| Rated Output power | 2W/0.5W (It was fixed by the manufacturer, any individual can't arbitrarily change it.) |
| Antenna Designation | Inseparable |
| Antenna Gain | 1.5dBi |
| Power Supply | DC 3.70V |
| Limiting Voltage | DC 3.15V-4.26V |
| Operation Frequency Range and Channel | FRS: 462.5625MHz -462.7125MHz(2W) 467.5625MHz-467.7125MHz(0.5W) 462.5500MHz-462.7250MHz(2W) Test Channel :4, 11 and 19 channel |
| Frequency Tolerance | 1.094ppm |

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Channel List:

| Operation Frequency Each of Channel | | | | | |
|-------------------------------------|--------------|---------|--------------|---------|--------------|
| FRS | | FRS | | FRS | |
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 462.5625 MHz | 8 | 467.5625 MHz | 15 | 462.5500 MHz |
| 2 | 462.5875 MHz | 9 | 467.5875 MHz | 16 | 462.5750 MHz |
| 3 | 462.6125 MHz | 10 | 467.6125 MHz | 17 | 462.6000 MHz |
| 4 | 462.6375 MHz | 11 | 467.6375 MHz | 18 | 462.6250 MHz |
| 5 | 462.6625 MHz | 12 | 467.6625 MHz | 19 | 462.6500 MHz |
| 6 | 462.6875 MHz | 13 | 467.6875 MHz | 20 | 462.6750 MHz |
| 7 | 462.7125 MHz | 14 | 467.7125 MHz | 21 | 462.7000 MHz |
| | | | | 22 | 462.7250 MHz |

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1.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: **2AJGM-F19**, filing to comply with the FCC Part 95 requirements.

1.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of TIA/EIA 603-E.

1.4 ADDRESS OF THE TEST LABORATORY

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

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

1.5 TEST FACILITY

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

CNAS-Lab Code: L5488

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

A2LA-Lab Cert. No.: 5054.02

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

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

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

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1.6 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

1.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

1.8 ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX II: PHOTOGRAPHS OF EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

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

2.2 EUT EXERCISE

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

2.3 CONFIGURATION OF TESTED SYSTEM

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

| Item | Equipment | Model No. | Identifier | Note |
|------|---------------|--------------|---|-------------|
| 1 | Two-way radio | F19 | FCC ID: 2AJGM-F19 | EUT |
| 2 | Adapter | Q5-0505-USBA | Input: 100-240V 50/60Hz, 0.3A Output: DC 5V 0.5A | Accessories |
| 3 | Battery | N/A | DC 3.7V 1200mA | Accessories |

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2.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %
- Uncertainty of Frequency: $U_c = \pm 2$ %
- Uncertainty of FM deviation: $U_c = \pm 2$ %
- Uncertainty of Audio Level: $U_c = \pm 0.98$ dB
- Uncertainty of Modulation Limiting: $U_c = 0.42$ %
- Uncertainty of Transient Frequency Behavior: $U_c = 6.8$ %

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3. SUMMARY OF TEST RESULTS

| FCC 47 CFR Part 95 Test Cases | | | |
|---|---|---------------------|------------------|
| Test Item | Test Requirement | Test Method | Result |
| Maximum Transmitter Power | FCC 47 CFR Part 95.567 FCC 47 CFR Part 2.1046(a) | ANSI/TIA-603-E-2016 | PASS |
| Modulation Limit | FCC 47 CFR Part 95.575 FCC 47 CFR Part 2.1047(a)(b) | ANSI/TIA-603-E-2016 | PASS |
| Audio Frequency Response | FCC 47 CFR Part 95.575 FCC 47 CFR Part 2.1047(a) | ANSI/TIA-603-E-2016 | PASS |
| Emission Bandwidth | FCC 47 CFR Part 95.573 FCC 47 CFR Part 2.1049 | ANSI/TIA-603-E-2016 | PASS |
| Emission Mask | FCC 47 CFR Part 95.579 | ANSI/TIA-603-E-2016 | PASS |
| Transmitter Radiated Spurious Emission | FCC 47 CFR Part 95.579 | ANSI/TIA-603-E-2016 | PASS |
| Spurious Emission On Antenna Port | FCC 47 CFR Part 95.579 | ANSI/TIA-603-E-2016 | N/A Note 1, 2 |
| Frequency Stability | FCC 47 CFR Part 95.565 FCC 47 CFR Part 2.1055 (a)(1) | ANSI/TIA-603-E-2016 | PASS |
| Note: | | | |
| 1) N/A: In this whole report not application. | | | |
| 2) The EUT is Integral Antenna. | | | |

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LIST OF EQUIPMENTS USED

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|--------------|----------|--------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun. 09, 2020 | Jun. 08, 2021 |
| EXA Signal Analyzer | KEYSIGHT | N9020A | MY53300860 | July 15, 2020 | July 14, 2021 |
| Horn antenna | SCHWARZBECK | BBHA9170 | 768 | Oct. 09, 2019 | Oct. 08, 2021 |
| preamplifier | ETS | 3117PA | 00225134 | Sep. 03, 2020 | Sep. 02, 2022 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May. 17, 2019 | May. 16, 2021 |
| Broadband Preamplifier | SCHWARZBECK | BBV9718 | 9718-205 | Jun. 09, 2020 | Jun. 08, 2021 |
| Double-Ridged Waveguide Horn | ETS | 3117 | 00154520 | Oct. 26, 2019 | Oct. 25, 2021 |
| SIGNAL | AGILENT | E4421B | MY43351603 | Jun. 09, 2020 | Jun. 08, 2021 |
| ANTENNA | SCHWARZBECK | VULB9168 | VULB9168-494 | Jan. 09, 2019 | Jan. 08, 2021 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep.20, 2019 | Sep.19, 2021 |
| Modulation Domain Analyzer | HP | 53310A | 3121A02467 | Aug. 26, 2020 | Aug. 25, 2021 |
| Small environmental tester | ESPEC | SH-242 | 93008290 | Sep. 03, 2020 | Sep. 02, 2022 |
| RF Communication Test Set | HP | 8920B | US35010161 | Sep. 03, 2020 | Sep. 02, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Jun. 11, 2020 | Jun. 10, 2021 |
| Attenuator | Schaffner | 58-30-33 | ML030 | Oct. 26, 2020 | Oct. 25, 2021 |
| RF Cable | R&S | 1# | -- | Each time | N/A |
| Fliter-UHF | Microwave | N25155M2 | 498705 | May. 11, 2020 | May. 10, 2021 |

Note: 8920B can generate audio modulation frequency.

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4. DESCRIPTION OF TEST MODES

RF TEST MODES

The EUT (**Two-way radio**) has been tested under normal operating condition. (FRS TX) are chosen for testing at each channel separation.

| NO. | TEST MODE DESCRIPTION | CHANNEL SEPARATION |
|-----|-----------------------|--------------------|
| 1 | FRS TX CHANNEL 4 | 12.5 kHz |
| 2 | FRS TX CHANNEL 11 | 12.5 kHz |
| 3 | FRS TX CHANNEL 19 | 12.5 kHz |

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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5. FREQUENCY TOLERANCE

5.1 PROVISIONS APPLICABLE

Standard Applicable [Part 95.565]The carrier frequency stability is the ability of the transmitter to maintain an assigned carrier frequency.

FCC Part 95.565,

FRS: The carrier frequency tolerance shall be better than ± 2.5 ppm.

5.2 MEASUREMENT PROCEDURE

5.2.1 Frequency stability versus environmental temperature

1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 50KHz.Record this frequency as reference frequency.
3. Set the temperature of chamber to 50 °C . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
4. Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measured frequencies on each temperature step.

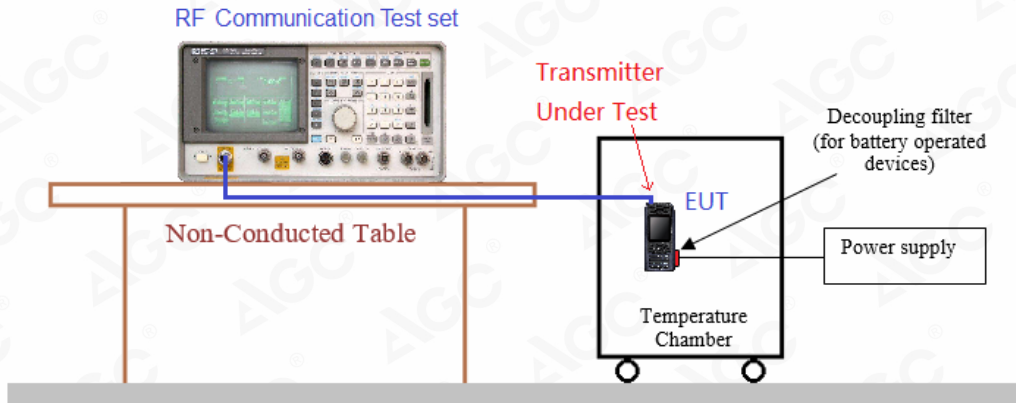
5.2.2 Frequency stability versus input voltage

1. Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15°C to 25°C . Otherwise, an environment chamber set for a temperature of 20°C shall be used. The EUT shall be powered by DC 3.70V.
2. Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1KHz. Record this frequency as reference frequency.
3. Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

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5.3 TEST SETUP BLOCK DIAGRAM



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5.4 TEST RESULT

(1) Frequency stability versus input voltage (Supply nominal voltage is 3.70V)

| Environment Temperature(°C) | Power | Reference Frequency | | | Limit: |
|-----------------------------|---------|---------------------|-------------|--------------|----------------|
| | (V) | 462.6375MHz | 467.6375MHz | 462.6500 MHz | ppm |
| 50 | DC 3.70 | 0.859 | 0.653 | 0.649 | ±2.5for FRS |
| 40 | DC 3.70 | 0.515 | 0.645 | 0.623 | |
| 30 | DC 3.70 | 0.944 | 0.690 | 0.946 | |
| 20 | DC 3.70 | 1.040 | 0.794 | 0.641 | |
| 10 | DC 3.70 | 1.034 | 0.977 | 0.680 | |
| 0 | DC 3.70 | 0.694 | 1.036 | 1.094 | |
| -10 | DC 3.70 | 0.757 | 0.724 | 0.533 | |
| -20 | DC 3.70 | 0.761 | 0.971 | 0.712 | |
| -30 | DC 3.70 | 0.901 | 0.855 | 0.807 | |
| Result | Pass | | | | |

(2) Frequency stability versus input voltage (Battery Fully Charged voltage is 4.26V)

| Environment Temperature(°C) | Power | Reference Frequency | | | Limit: |
|-----------------------------|---------|---------------------|-------------|--------------|----------------|
| | (V) | 462.6375MHz | 467.6375MHz | 462.6500 MHz | ppm |
| 50 | DC 4.26 | 0.781 | 0.911 | 0.546 | ±2.5for FRS |
| 40 | DC 4.26 | 0.572 | 0.445 | 0.929 | |
| 30 | DC 4.26 | 0.784 | 0.527 | 0.526 | |
| 20 | DC 4.26 | 0.671 | 0.810 | 0.932 | |
| 10 | DC 4.26 | 0.920 | 0.785 | 0.922 | |
| 0 | DC 4.26 | 0.988 | 0.596 | 0.826 | |
| -10 | DC 4.26 | 0.759 | 0.537 | 0.866 | |
| -20 | DC 4.26 | 0.973 | 0.940 | 0.973 | |
| -30 | DC 4.26 | 0.625 | 0.543 | 0.960 | |
| Result | Pass | | | | |

(3) Frequency stability versus input voltage (Battery limiting voltage is 3.15)

| Environment Temperature(°C) | Power | Reference Frequency | | | Limit: |
|-----------------------------|---------|---------------------|-------------|--------------|----------------|
| | (V) | 462.6375MHz | 467.6375MHz | 462.6500 MHz | ppm |
| 50 | DC 3.15 | 0.506 | 0.915 | 0.484 | ±2.5for FRS |
| 40 | DC 3.15 | 0.895 | 0.649 | 0.537 | |
| 30 | DC 3.15 | 0.816 | 0.870 | 0.397 | |
| 20 | DC 3.15 | 0.758 | 0.924 | 0.645 | |
| 10 | DC 3.15 | 0.519 | 0.843 | 0.394 | |
| 0 | DC 3.15 | 0.636 | 0.372 | 0.305 | |
| -10 | DC 3.15 | 0.373 | 0.891 | 0.583 | |
| -20 | DC 3.15 | 0.610 | 0.676 | 0.457 | |
| -30 | DC 3.15 | 0.746 | 0.947 | 0.559 | |
| Result | Pass | | | | |

Note: 1. Battery terminal voltage is declared and specified by the manufacturer.
2. All test values are in "ppm"

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6. EMISSION BANDWIDTH

6.1 PROVISIONS APPLICABLE

FCC Part 95.573: FRS: The authorized bandwidth for an FRS unit is 12.5 kHz.

Occupied Bandwidth (Section 2.1049, 95.573): The EUT was connected to the audio signal generator and the spectrum analyzer via the main RF connector, and through an appropriate attenuator. The EUT was controlled to transmit its maximum power. Then the bandwidth of 99% power can be measured by the spectrum analyzer.

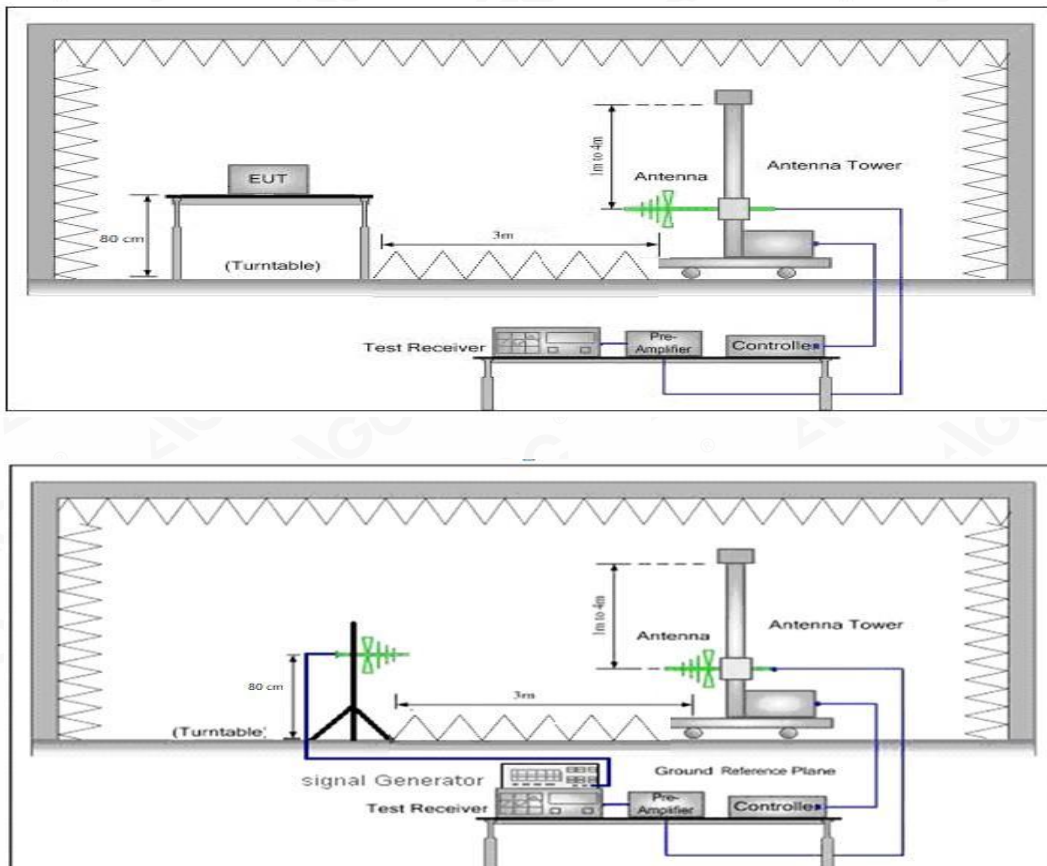
6.2 MEASUREMENT PROCEDURE

- 1). The EUT was modulated by 2.5 KHz Sine wave audio signal, The level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel spacing).
- 2). Set SPA Center Frequency = fundamental frequency, RBW=300Hz.VBW= 1KHz, Span =50 KHz.
- 3). Set SPA Max hold. Mark peak, -26 dB.

6.3 TEST SETUP BLOCK DIAGRAM

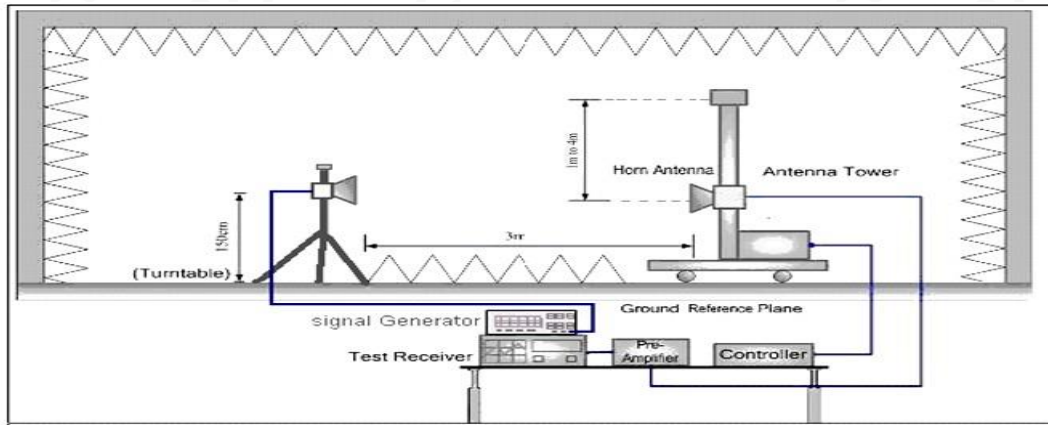
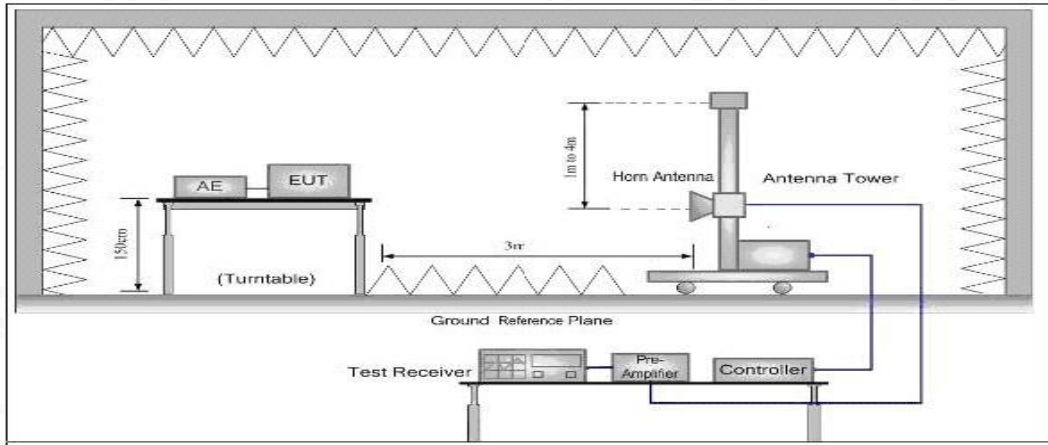
Radiation method:

Radiated Below 1GHz

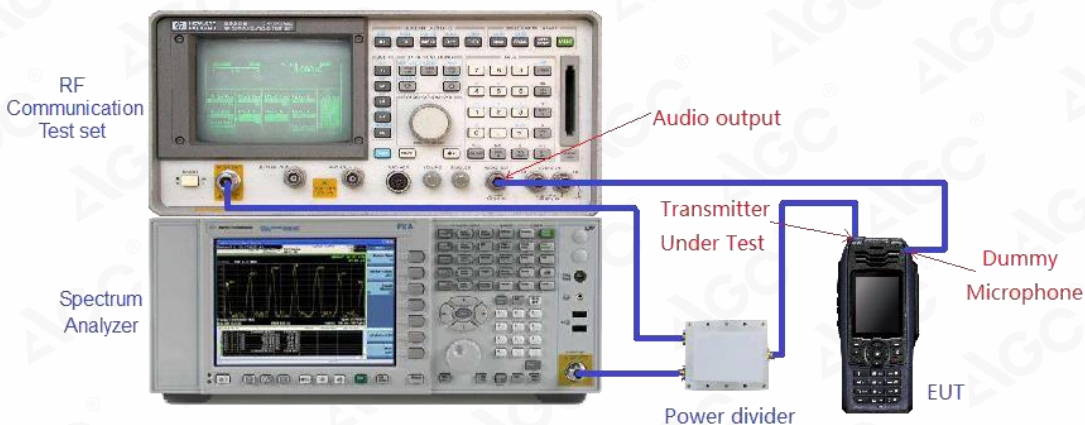


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Radiated Above 1 GHz



Conduction method:



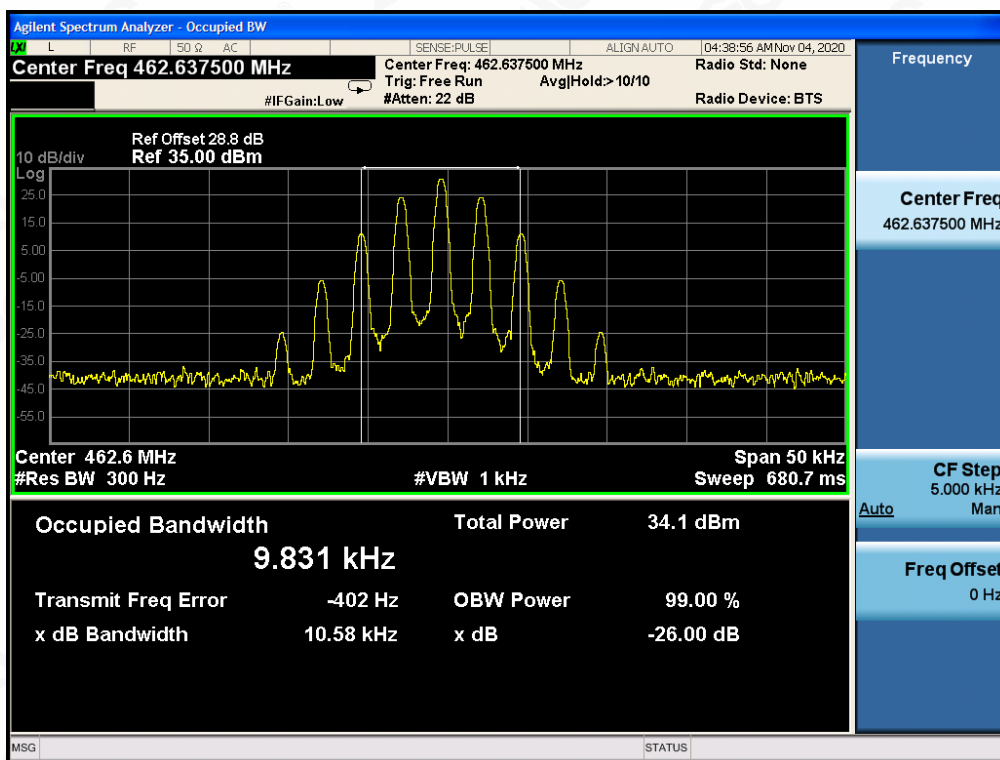
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6.4 MEASUREMENT RESULT

| Emission Bandwidth Measurement Result | | | | |
|---------------------------------------|-----------------------------|--------------------|----------|--------|
| Operating Frequency | 12.5 KHz Channel Separation | | | |
| | Occupied Bandwidth | Emission Bandwidth | Limits | Result |
| 462.6375MHz | 9.831 KHz | 10.58 KHz | 12.5 KHz | Pass |
| 467.6375MHz | 9.908 KHz | 10.51 KHz | 12.5 KHz | Pass |
| 462.6500MHz | 9.861 KHz | 10.50 KHz | 12.5 KHz | Pass |

Occupied bandwidth of 462.6375MHz-2W

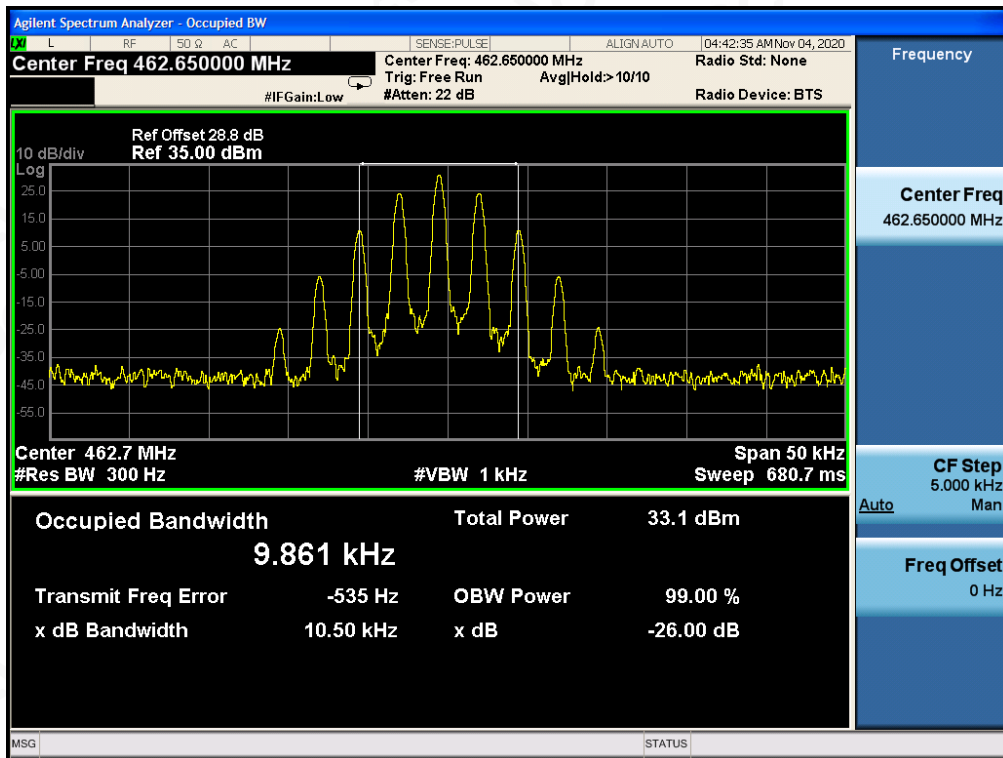


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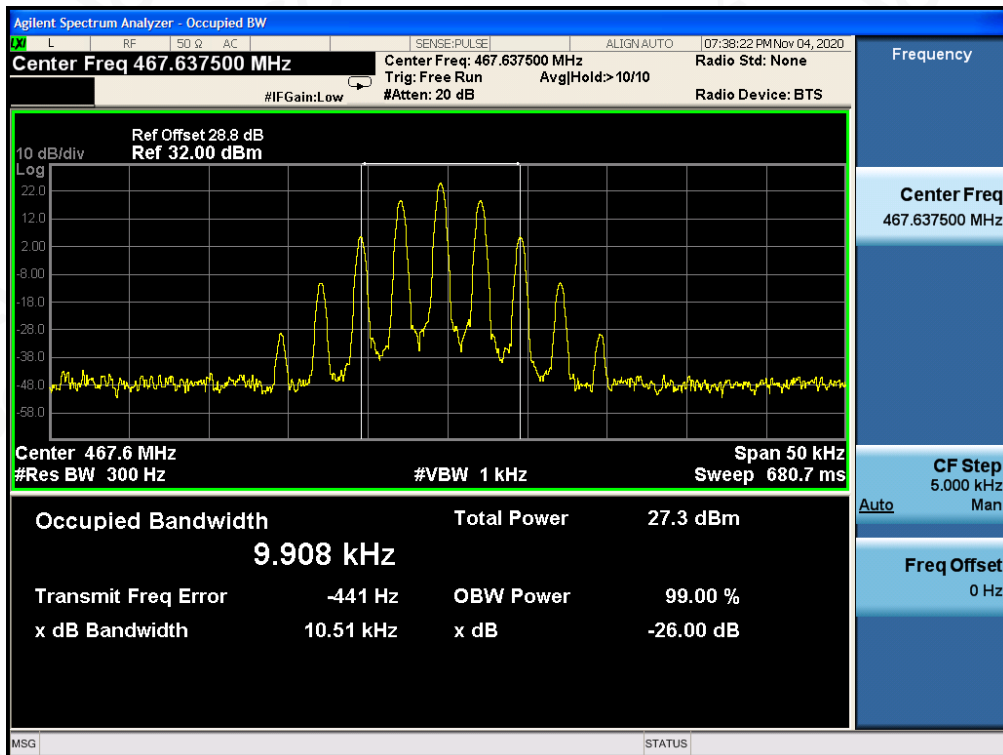
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Occupied bandwidth of 462.6500MHz-2W



Occupied bandwidth of 467.6375MHz-0.5W



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7. UNWANTED RADIATION

7.1 PROVISIONS APPLICABLE

Standard Applicable [FCC Part 95.579]

According to FCC section 95.579, the unwanted emission should be attenuated below TP by at least $43+10 \log(\text{Transmit Power})$ dB.

7.2 MEASUREMENT PROCEDURE

- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.

- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

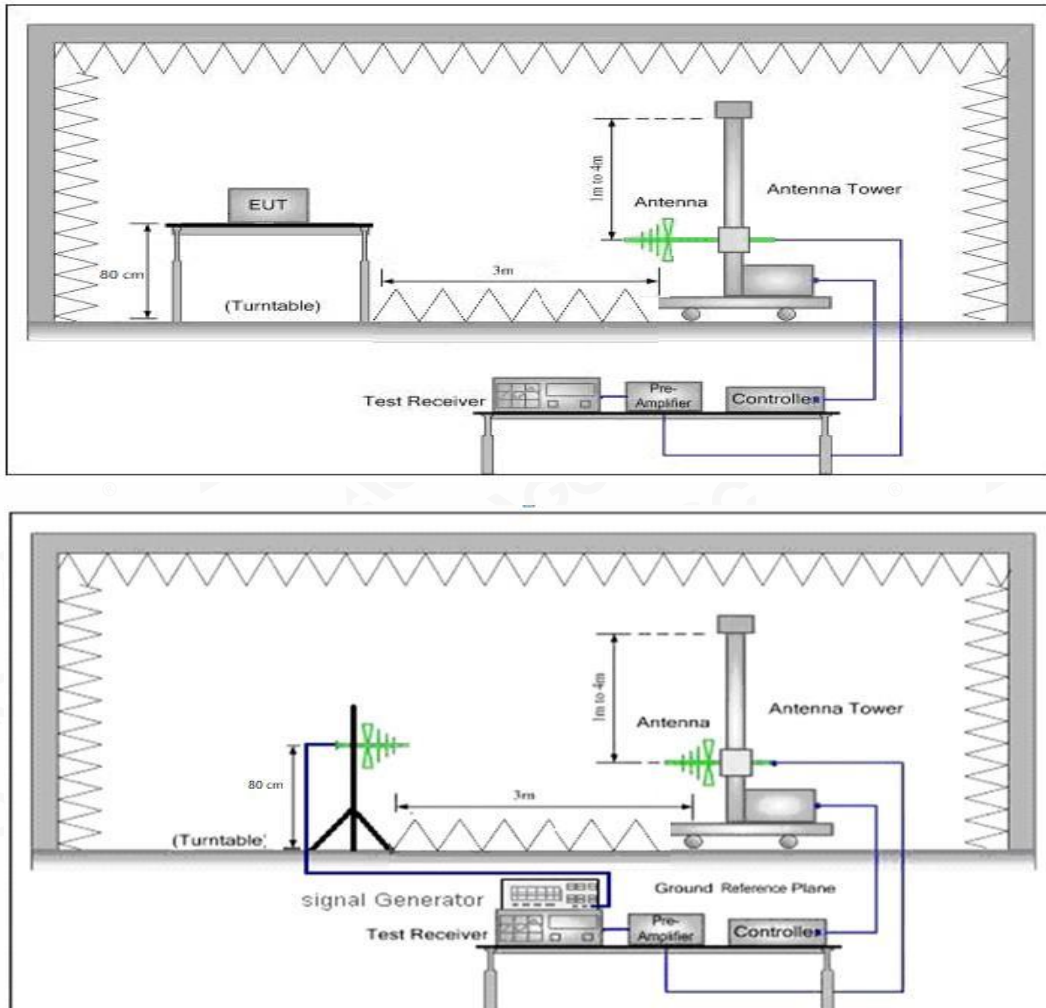
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7.3 TEST SETUP BLOCK DIAGRAM

SUBSTITUTION METHOD: (Radiated Emissions)

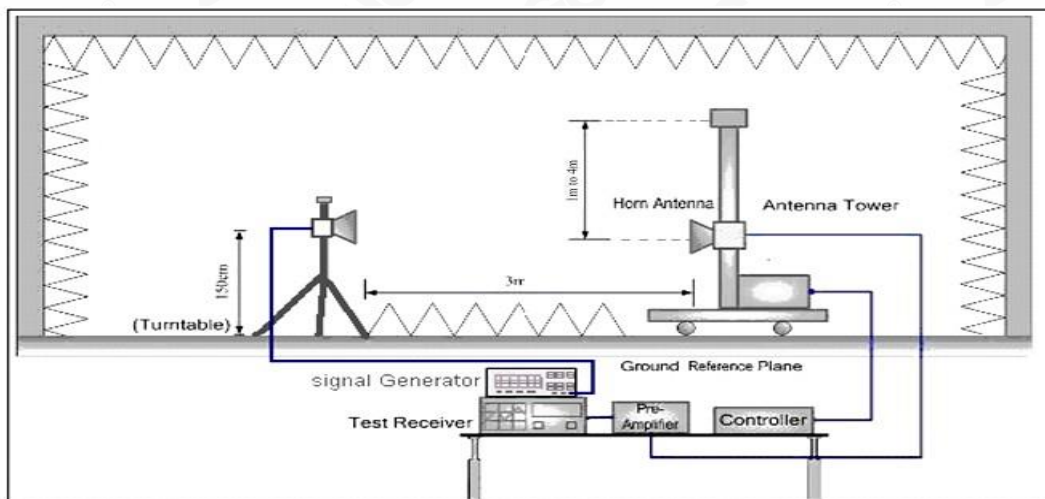
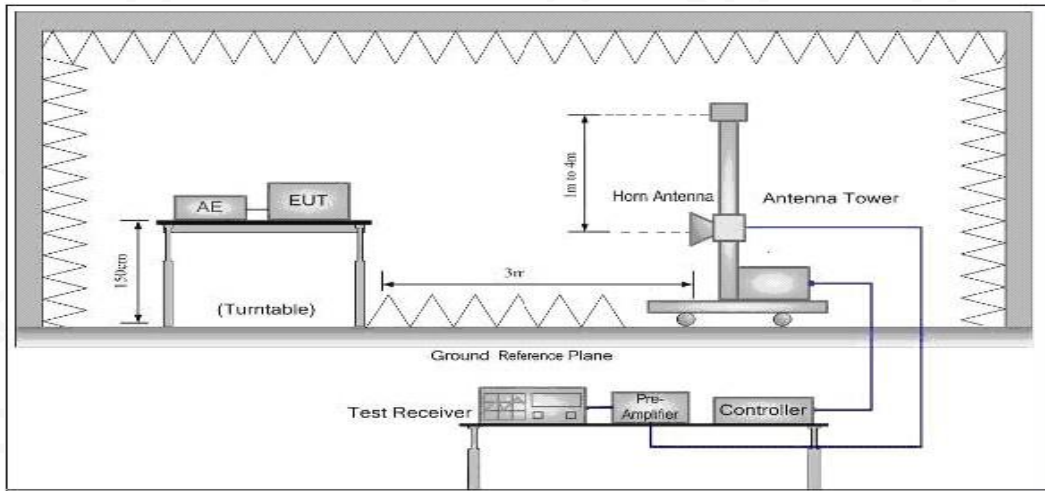
Radiated Below 1GHz



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Radiated Above 1 GHz



7.4 MEASUREMENT RESULTS:

the unwanted emission should be attenuated below TP by at least $43+10 \log(\text{Transmit Power})$ dB

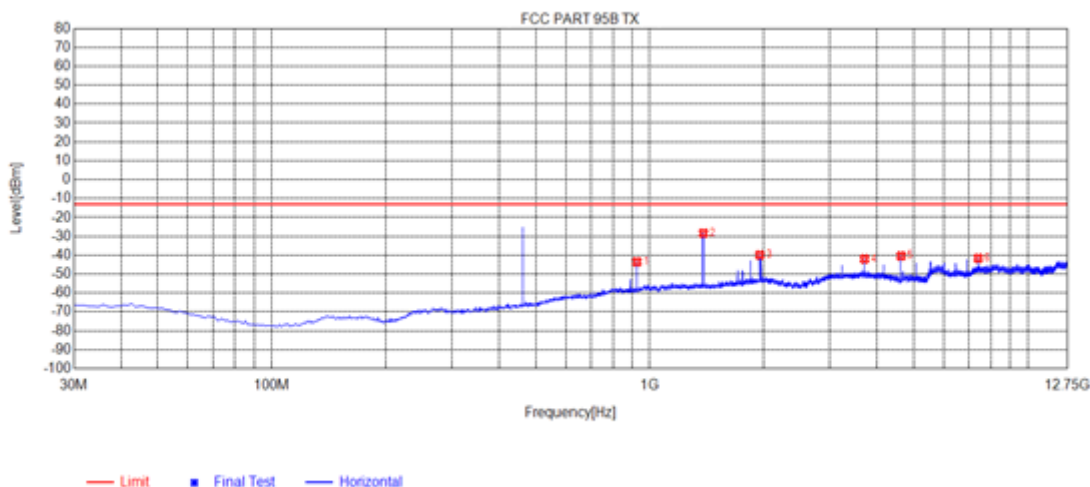
Limit: At least $43+10 \log(P) = 43+10\log(2) = 46.01(\text{dBc})$ $33.01-46.01 = -13\text{dBm}$
 At least $43+10 \log(P) = 43+10\log(0.5) = 39.99(\text{dBc})$ $26.99-39.99 = -13\text{dBm}$

Note: The margin of the spurious emission results below 30MHz is less than 20dB. The default meets the requirements and only reflects the worst mode.

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Measurement Result for 12.5 KHz Channel Separation @ 462.6375MHz-2W-Horizontal



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|------------|
| 1 | 925.3100 | -87.02 | -43.53 | -13.00 | 30.53 | 43.49 | 155 | Horizontal |
| 2 | 1387.7888 | -24.91 | -28.36 | -13.00 | 15.36 | -3.45 | 155 | Horizontal |
| 3 | 1956.5457 | -40.10 | -39.90 | -13.00 | 26.90 | 0.20 | 314 | Horizontal |
| 4 | 3701.5952 | -46.39 | -41.98 | -13.00 | 28.98 | 4.41 | 258 | Horizontal |
| 5 | 4626.4126 | -43.93 | -40.38 | -13.00 | 27.38 | 3.55 | 201 | Horizontal |
| 6 | 7402.0402 | -54.90 | -41.63 | -13.00 | 28.63 | 13.27 | 238 | Horizontal |

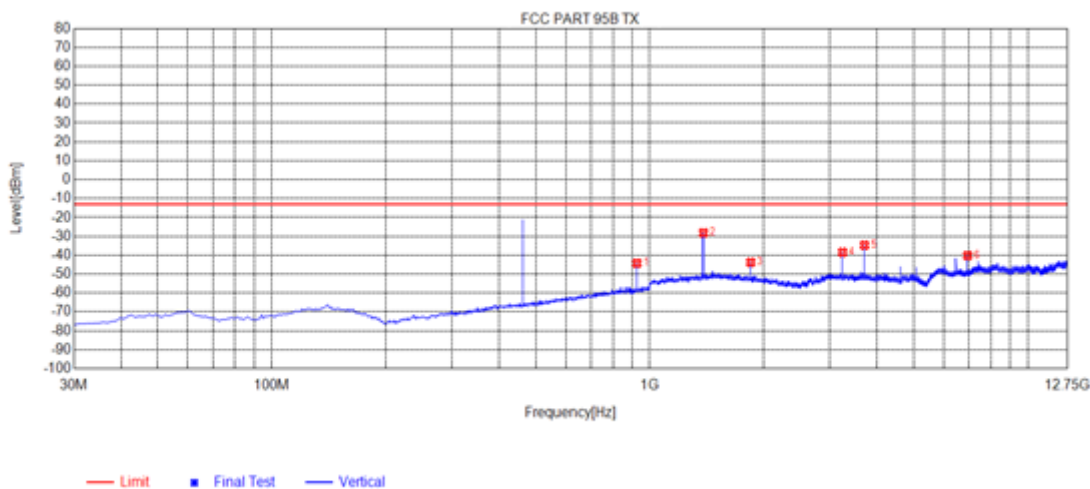
RESULT: PASS

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Measurement Result for 12.5 KHz Channel Separation @ 462.6375MHz-2W-Vertical



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1 | 925.3100 | -87.79 | -44.22 | -13.00 | 31.22 | 43.57 | 270 | Vertical |
| 2 | 1387.7888 | -29.60 | -28.19 | -13.00 | 15.19 | 1.41 | 214 | Vertical |
| 3 | 1850.7851 | -44.70 | -43.77 | -13.00 | 30.77 | 0.93 | 101 | Vertical |
| 4 | 3238.5989 | -41.61 | -38.47 | -13.00 | 25.47 | 3.14 | 9 | Vertical |
| 5 | 3701.5952 | -37.84 | -34.69 | -13.00 | 21.69 | 3.15 | 9 | Vertical |
| 6 | 6940.2190 | -52.29 | -40.19 | -13.00 | 27.19 | 12.10 | 317 | Vertical |

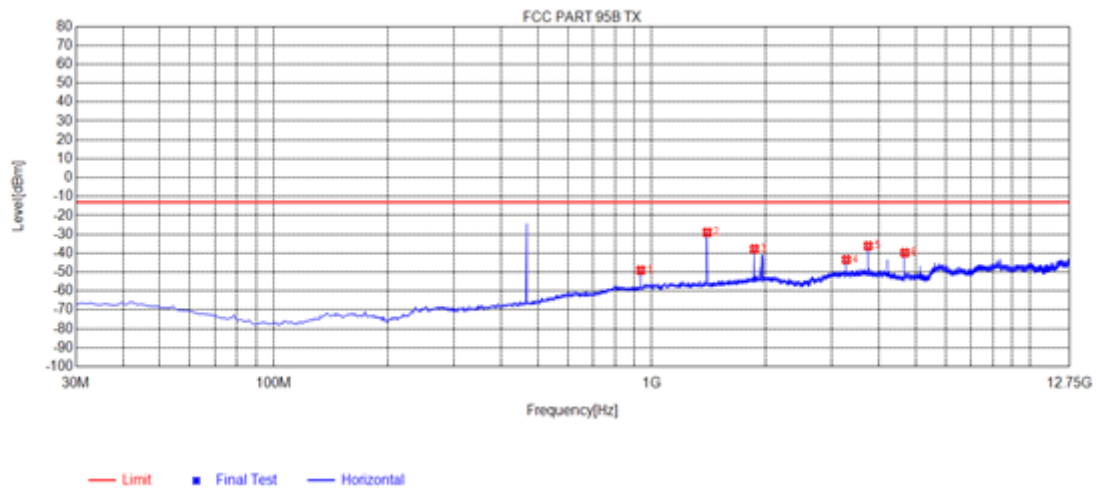
RESULT: PASS

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Measurement Result for 12.5 KHz Channel Separation @ 467.6375MHz-0.5W-Horizontal



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|------------|
| 1 | 935.9800 | -92.74 | -49.02 | -13.00 | 36.02 | 43.72 | 0 | Horizontal |
| 2 | 1403.0653 | -25.57 | -28.98 | -13.00 | 15.98 | -3.41 | 134 | Horizontal |
| 3 | 1870.7621 | -37.30 | -37.74 | -13.00 | 24.74 | -0.44 | 162 | Horizontal |
| 4 | 3273.8524 | -47.20 | -43.42 | -13.00 | 30.42 | 3.78 | 350 | Horizontal |
| 5 | 3741.5492 | -40.62 | -36.16 | -13.00 | 23.16 | 4.46 | 324 | Horizontal |
| 6 | 4676.9427 | -43.37 | -39.80 | -13.00 | 26.80 | 3.57 | 190 | Horizontal |

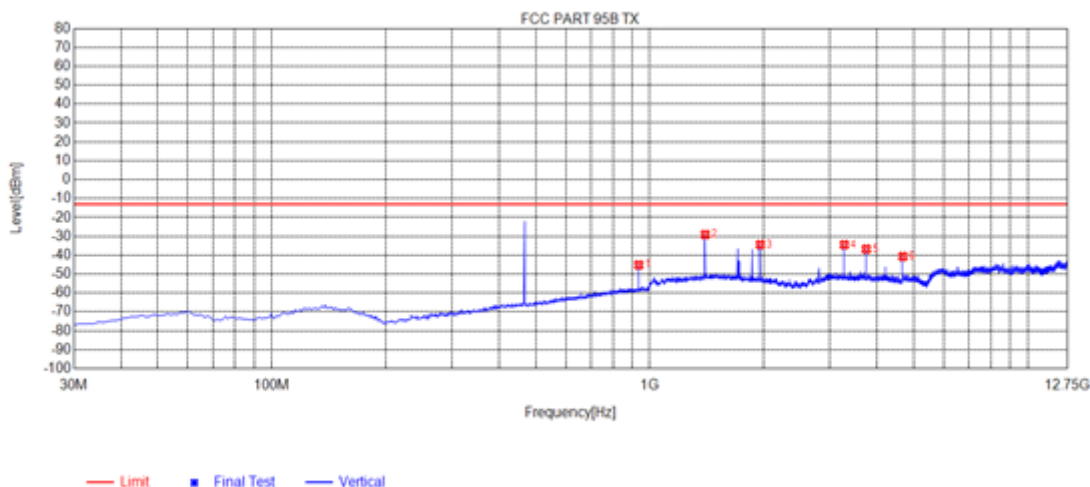
RESULT: PASS

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Measurement Result for 12.5 KHz Channel Separation @ 467.6375MHz-0.5W-Vertical



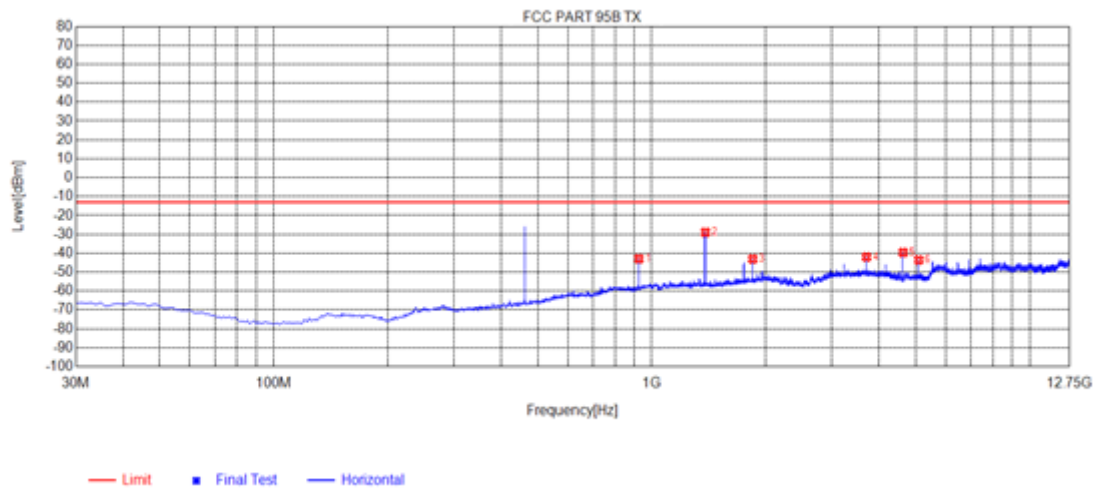
| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1 | 935.9800 | -88.84 | -45.16 | -13.00 | 32.16 | 43.68 | 1 | Vertical |
| 2 | 1403.0653 | -30.60 | -29.08 | -13.00 | 16.08 | 1.52 | 186 | Vertical |
| 3 | 1962.4212 | -34.92 | -34.38 | -13.00 | 21.38 | 0.54 | 9 | Vertical |
| 4 | 3273.8524 | -37.56 | -34.43 | -13.00 | 21.43 | 3.13 | 360 | Vertical |
| 5 | 3741.5492 | -39.90 | -36.73 | -13.00 | 23.73 | 3.17 | 354 | Vertical |
| 6 | 4676.9427 | -44.05 | -40.69 | -13.00 | 27.69 | 3.36 | 354 | Vertical |

RESULT: PASS

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Measurement Result for 12.5 KHz Channel Separation @ 462.6500MHz-2W-Horizontal



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|------------|
| 1 | 925.3100 | -86.45 | -42.96 | -13.00 | 29.96 | 43.49 | 156 | Horizontal |
| 2 | 1387.7888 | -25.50 | -28.95 | -13.00 | 15.95 | -3.45 | 128 | Horizontal |
| 3 | 1850.7851 | -42.48 | -43.07 | -13.00 | 30.07 | -0.59 | 166 | Horizontal |
| 4 | 3701.5952 | -46.41 | -42.00 | -13.00 | 29.00 | 4.41 | 259 | Horizontal |
| 5 | 4626.4126 | -43.17 | -39.62 | -13.00 | 26.62 | 3.55 | 193 | Horizontal |
| 6 | 5089.4089 | -48.28 | -43.61 | -13.00 | 30.61 | 4.67 | 101 | Horizontal |

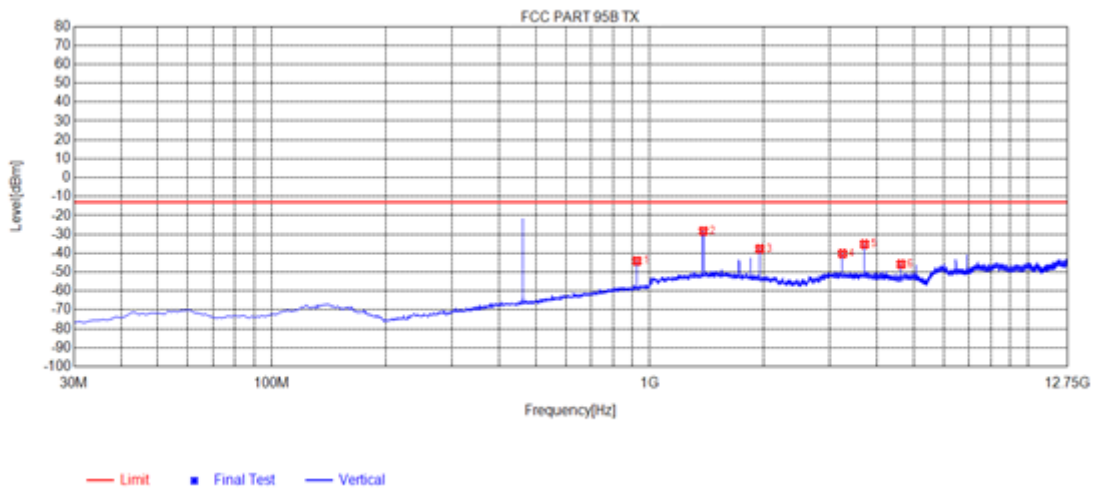
RESULT: PASS

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Measurement Result for 12.5 KHz Channel Separation @ 462.6500MHz-2W -Vertical



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1 | 925.3100 | -87.65 | -44.08 | -13.00 | 31.08 | 43.57 | 325 | Vertical |
| 2 | 1387.7888 | -29.73 | -28.32 | -13.00 | 15.32 | 1.41 | 196 | Vertical |
| 3 | 1956.5457 | -38.28 | -37.72 | -13.00 | 24.72 | 0.56 | 9 | Vertical |
| 4 | 3238.5989 | -43.36 | -40.22 | -13.00 | 27.22 | 3.14 | 9 | Vertical |
| 5 | 3701.5952 | -38.40 | -35.25 | -13.00 | 22.25 | 3.15 | 1 | Vertical |
| 6 | 4626.4126 | -49.12 | -45.85 | -13.00 | 32.85 | 3.27 | 93 | Vertical |

RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
3. Margin=Limit- Level

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