



Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220200021302

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TEST REPORT

Application No.: KSCR2202000213AT
FCC ID: DMOXSWIEMSR
Applicant: Sennheiser Electronic Corp
Address of Applicant: 1 Enterprise Drive, Old Lyme, Connecticut 06371 United States
Manufacturer: Sennheiser electronic GmbH & Co.KG
Address of Manufacturer: Am Labor 1,30900 Wedemark, Germany
Factory: Pasgao Electronics Co. Ltd
Address of Factory: V1 2nd District, Industrial Transfer Park, Enping City, Guangdong, China 529400

Equipment Under Test (EUT):

EUT Name: XS Wireless
Model No.: XSW IEM SR
Trade mark: SENNHEISER
Standard(s) : 47 CFR Part 74
Date of Receipt: 2022-02-17
Date of Test: 2022-02-17 to 2022-02-25
Date of Issue: 2022-02-25

| | |
|---------------------|-------|
| Test Result: | Pass* |
|---------------------|-------|

* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022-02-25 | | Original |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|-------------------------------------|--|--|
| Authorized for issue by: | | | | |
| | | <i>Tommie Tang</i> | | |
| | | <u>Tommie_Tang/Project Engineer</u> | | |
| | | <i>Eric Lin</i> | | |
| | | <u>Eric Lin/Reviewer</u> | | |



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1 Test Summary

| Radio Spectrum Matter Part | | | | |
|---|----------------|---------------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Maximum Conducted Output Power | 47 CFR Part 74 | ANSI C63.26-2015 Section 5.2 | FCC Part 74.861(e)(1)(ii) FCC Part 2.1046 | Pass |
| Occupied Bandwidth | 47 CFR Part 74 | ANSI C63.26-2015 Section 5.4 | FCC Part 74.861 (e)(5) FCC Part 2.1049 | Pass |
| Frequency Stability | 47 CFR Part 74 | ANSI C63.26-2015 Section 5.6 | FCC Part 74.861 (e)(4) FCC Part 2.1055 | Pass |
| Transmitter unwanted emissions | 47 CFR Part 74 | EN 300 422-1 V1.4.2 | FCC Part 74.861(e)(7) FCC Part 2.1053 | Pass |
| Modulation characteristic | 47 CFR Part 74 | ANSI C63.26-2015 Section 5.3 | FCC Part 74.861 (e)(3) | Pass |
| Necessary bandwidth (BN) for analogue systems | 47 CFR Part 74 | EN 300 422-1 V1.4.2 | FCC Part 74.861 (e)(6), (e)(7) FCC Part 2.1049 | Pass |



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7 EUT CONSTRUCTIONAL DETAILS41



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3 General Information

3.1 Details of E.U.T.

| | |
|-----------------------------------|--|
| Stereo Transmitter & Power Supply | Stereo Transmitter: XSW IEM SR Power Supply : SSC-5WVI-12 120050 Input: AC 120-240V 50/60Hz 0.2A Output: DC 12V 0.5A 6W DC cable:187cm unshielded |
| Test Voltage: | AC 120V, 60Hz or AC 240V, 50Hz Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz); |
| Frequency Range: | 476-500MHz 572-596MHz |
| Modulation: | FM |
| Number of Channel: | 10 |
| Sample Type: | Mobile device |
| Antenna Type: | Omni Antenna |
| Antenna Gain: | -1.5 dBi |
| Hardware Version: | XSW-IEM-TX-MB-V7.5 XSW-IEM-TX V9.3 |
| Software version: | 2.1 |

476-500MHz

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1 | 476.2MHz | 4 | 478.9MHz | 7 | 486.7MHz | 10 | 499.9MHz |
| 2 | 476.8MHz | 5 | 480.7MHz | 8 | 491.8MHz | | |
| 3 | 477.7MHz | 6 | 483.1MHz | 9 | 495.1MHz | | |

Test Channel:

| Channel | Frequency |
|----------------------------|-----------|
| The lowest channel (CH1) | 476.2MHz |
| The middle channel (CH7) | 486.7MHz |
| The highest channel (CH10) | 499.9MHz |



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572-596MHz

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1 | 572.2MHz | 4 | 574.9MHz | 7 | 582.7MHz | 10 | 595.9MHz |
| 2 | 572.8MHz | 5 | 576.7MHz | 8 | 587.8MHz | | |
| 3 | 573.7MHz | 6 | 579.1MHz | 9 | 591.1MHz | | |

Test Channel:

| Channel | Frequency |
|----------------------------|-----------|
| The lowest channel (CH1) | 572.2MHz |
| The middle channel (CH7) | 582.7MHz |
| The highest channel (CH10) | 595.9MHz |

3.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--|-----------------|-----------|------------|
| Power Amplifier | Yamaha | GA-15 | IQN150002 |
| Professional Analog Audio Signal Generator | NTI | MR-PRO | 600000310 |
| Audio Cable | Provided by SGS | YPH-8310 | SEA08A00 |

3.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|--|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 3 | Duty Cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF Conducted Power | 0.6dB |
| 6 | RF Power Density | 2.9dB |
| 7 | Conducted Spurious Emissions | 0.75dB |
| 8 | RF Radiated Power | 5.2dB (Below 1GHz) 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious Emission Test | 4.2dB (Below 30MHz) 4.5dB (30MHz-1GHz) 5.1dB (1GHz-18GHz) 5.4dB (Above 18GHz) |
| 10 | Temperature Test | 1°C |
| 11 | Humidity Test | 3% |
| 12 | Supply Voltages | 1.5% |
| 13 | Time | 3% |



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Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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3.4 Test Location

All tests were performed at:

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Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

3.5 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 Equipment List

| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
|--------------------------|----------------------------------|---------------|------------|---------------|------------|---------------|
| RF Conducted Test | | | | | | |
| 1 | Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/16/2021 | 04/15/2022 |
| 2 | Spectrum Analyzer | Keysight | N9020A | MY55370209 | 10/11/2021 | 10/10/2022 |
| 4 | Signal Generator | Agilent | N5182A | MY50142015 | 08/27/2021 | 08/26/2022 |
| 5 | Spectrum Analyzer | Keysight | N9030B | MY61330164 | 01/22/2022 | 01/21/2023 |
| 6 | Vector Signal Generator | R&S | SMW200A | 110074 | 10/12/2021 | 10/11/2022 |
| 7 | Radio Communication Test Station | Anritsu | MT8000A | 6262012849 | 09/23/2021 | 09/22/2022 |
| 8 | Radio Communication Analyzer | Anritsu | MT8821C | 6201692222 | 09/23/2021 | 09/22/2022 |
| 9 | Power Meter | Anritsu | ML2495A | 1445010 | 04/15/2021 | 04/14/2022 |
| 10 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 10/12/2021 | 10/11/2022 |
| 11 | AC Power Source | EXTECH | 6605 | 1570106 | N.C.R | N.C.R |
| 12 | DC Power Supply | Aglient | E3632A | MY50340053 | N.C.R | N.C.R |
| 13 | 6dB Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R | N.C.R |
| 14 | Power Divider | AISI | IOWOPE2068 | PE2068 | N.C.R | N.C.R |
| 15 | Filter | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 16 | Conducted Test Cable | / | RF01-RF04 | / | 04/15/2021 | 04/14/2022 |
| 17 | Software | BST | TST-PASS | N/A | N/A | N/A |
| 18 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | X30109 | 04/15/2021 | 04/14/2022 |
| 19 | Thermometer | Anymetre | TH603 | CCS007 | 10/14/2021 | 10/13/2022 |
| RF Radiated Test | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 10/11/2021 | 10/10/2022 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 10/18/2021 | 10/17/2022 |
| 3 | Loop Antenna | Schwarzbeck | HXYZ9170 | 9170-108 | 02/22/2021 | 02/21/2022 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2021 | 06/20/2023 |
| 5 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/13/2021 | 04/12/2023 |
| 6 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 10/26/2020 | 10/25/2022 |
| 7 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/22/2021 | 02/21/2023 |
| 8 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/22/2021 | 02/21/2022 |
| 9 | Pre-Amplifier(30MHz~18GHz) | LNA | / | / | 04/15/2021 | 04/14/2022 |
| 10 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | 461332 | 10/18/2021 | 10/17/2022 |
| 11 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 12 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 13 | Filter (815 MHz~860 MHz) | MICRO-TRONICS | BRM14697 | 1 | N.C.R | N.C.R |
| 14 | RE test cable | / | RE01-RE04 | / | 04/15/2021 | 04/14/2022 |
| 15 | Software | Faratronic | EZ EMC | N/A | N/A | N/A |



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5 Radio Spectrum Matter Test Results

5.1 Transmitter output power

Test Requirement FCC Part 74.861(e)(1)(ii), FCC Part 2.1046

Test Method: ANSI C63.26-2015 Section 5.2

Limit: In accordance with paragraph 74.861(e)(1)(ii), for low power auxiliary stations operating in the bands allocated for TV broadcasting, the power of the measured unmodulated carrier power at the output of the transmitter power amplifier (antenna input power) may not exceed 250 milliwatts in the 470-608 and 614-806MHz bands. In accordance with paragraph 74.861(d)(1), for low power auxiliary stations operating in the bands other than those allocated for TV broadcasting, the maximum transmitter power which will be authorized is 1 watt.

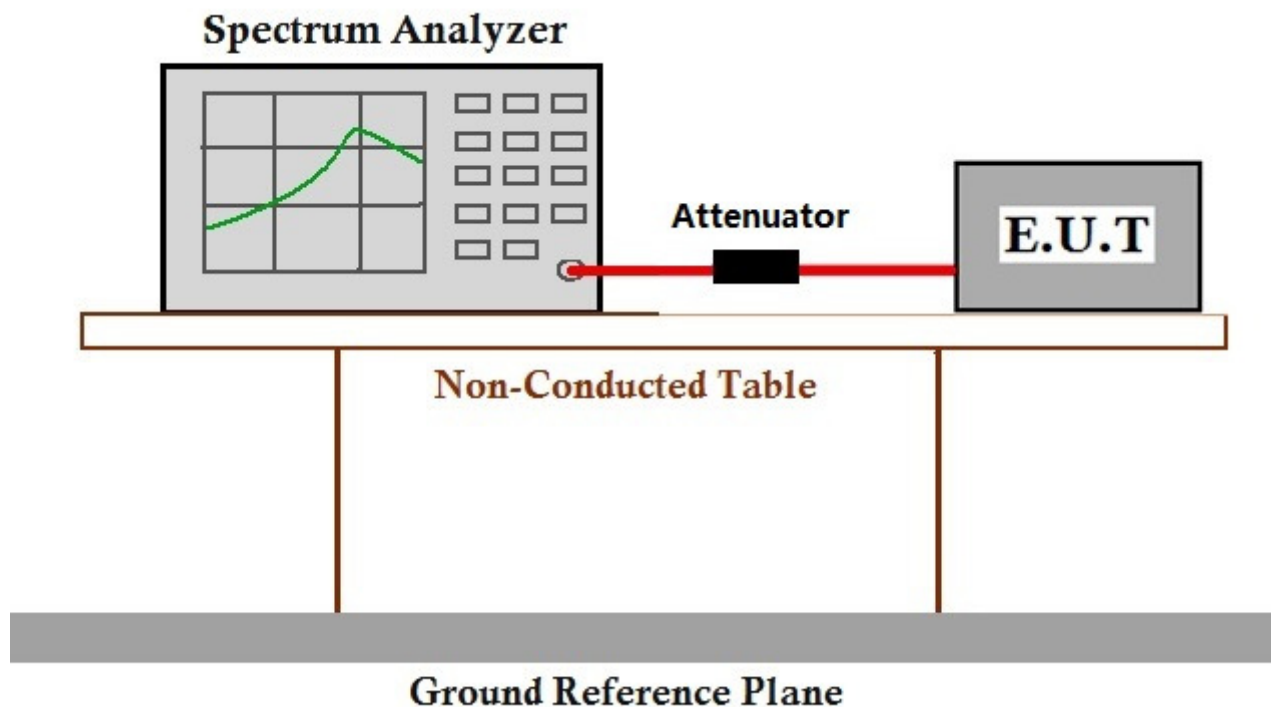
5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1010 mbar

Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

5.1.2 Test Setup Diagram



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5.1.3 Measurement Procedure and Data

| Modulation Type | Channel | Frequency (MHz) | Measured Maximum Average Power(dBm) | Limits Average (dBm) | Verdict |
|-----------------|---------|-----------------|-------------------------------------|----------------------|---------|
| Single Carrier | 1 | 476.2 | 14.551 | 23.98 | Pass |
| | 7 | 486.7 | 13.292 | 23.98 | Pass |
| | 10 | 499.9 | 12.066 | 23.98 | Pass |
| Single Carrier | 1 | 572.2 | 13.032 | 23.98 | Pass |
| | 7 | 582.7 | 13.533 | 23.98 | Pass |
| | 10 | 595.9 | 13.71 | 23.98 | Pass |



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5.2 Occupied bandwidth

Test Requirement FCC Part 74.861 (e)(5) FCC Part 2.1049
 Test Method: ANSI C63.26-2015 Section 5.4
 Limit: <200 kHz

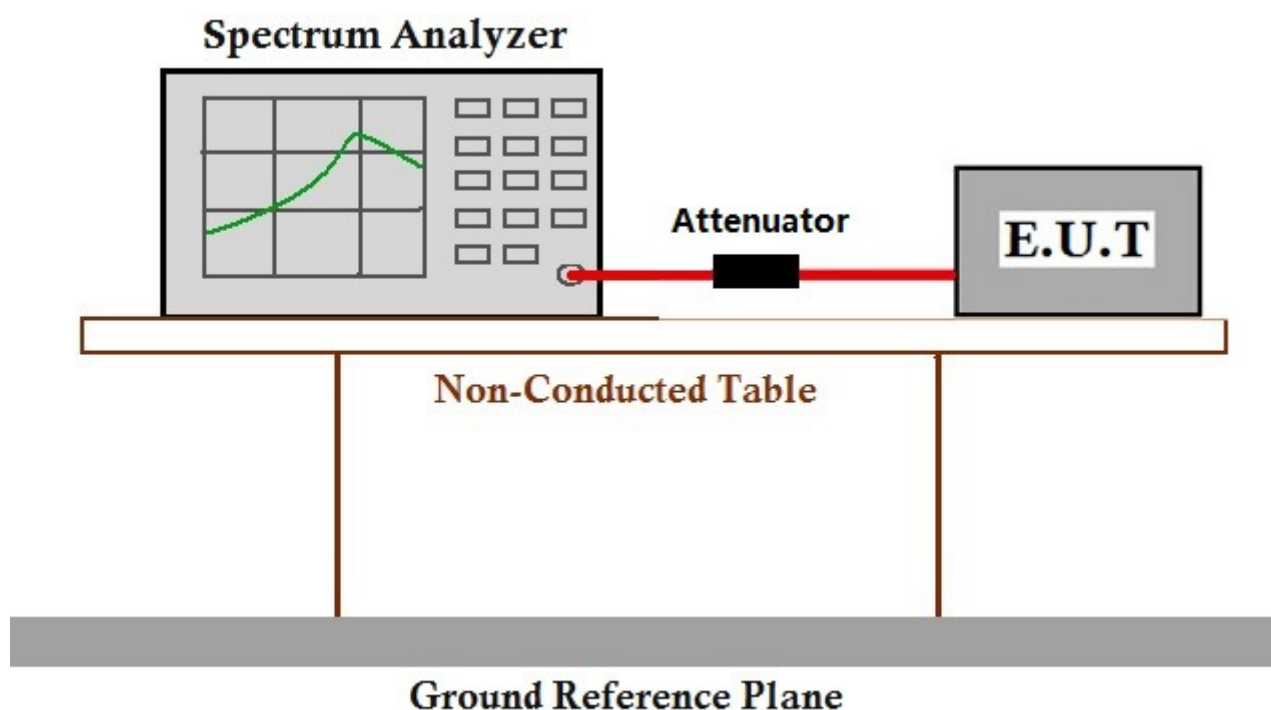
5.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1010 mbar

Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

5.2.2 Test Setup Diagram



5.2.3 Measurement Procedure and Data

| Modulation Type | Channel | Frequency (MHz) | 99% Bandwidth (KHz) | Limits (KHz) | Verdict |
|-----------------|---------|-----------------|---------------------|--------------|---------|
| FM | 1 | 476.2 | 91.099 | 200 | Pass |
| | 7 | 486.7 | 93.931 | | Pass |



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| | | | | | |
|----|----|-------|--------|-----|------|
| | 10 | 499.9 | 96.814 | | Pass |
| FM | 1 | 572.2 | 92.971 | 200 | Pass |
| | 7 | 582.7 | 92.442 | | Pass |
| | 10 | 595.9 | 96.211 | | Pass |



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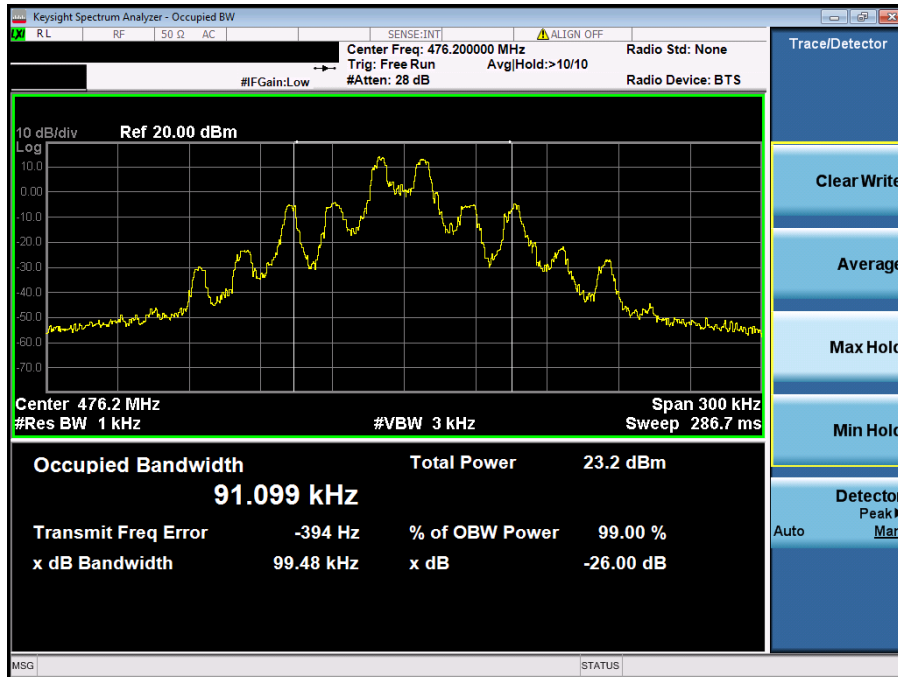
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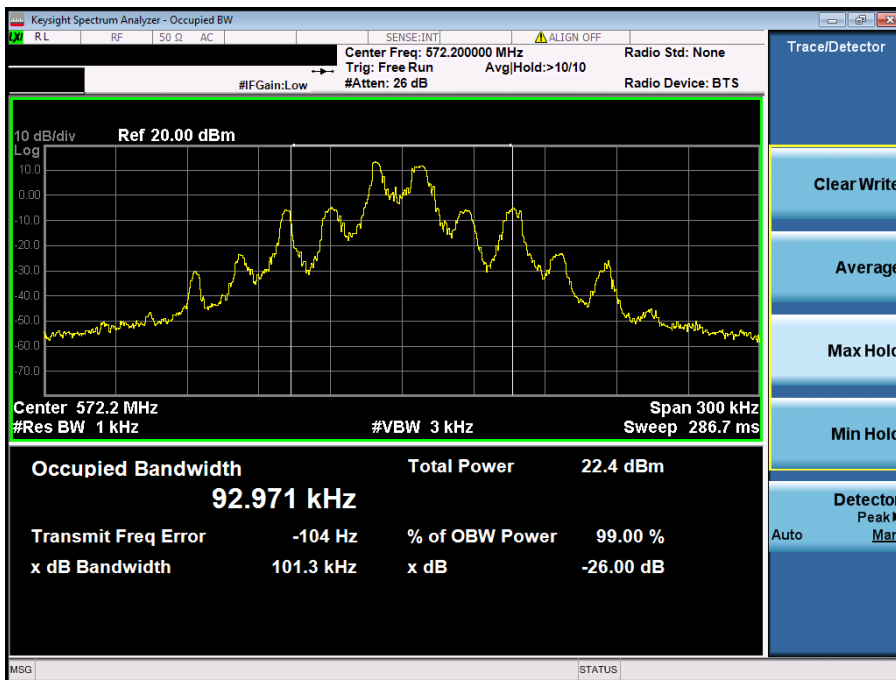
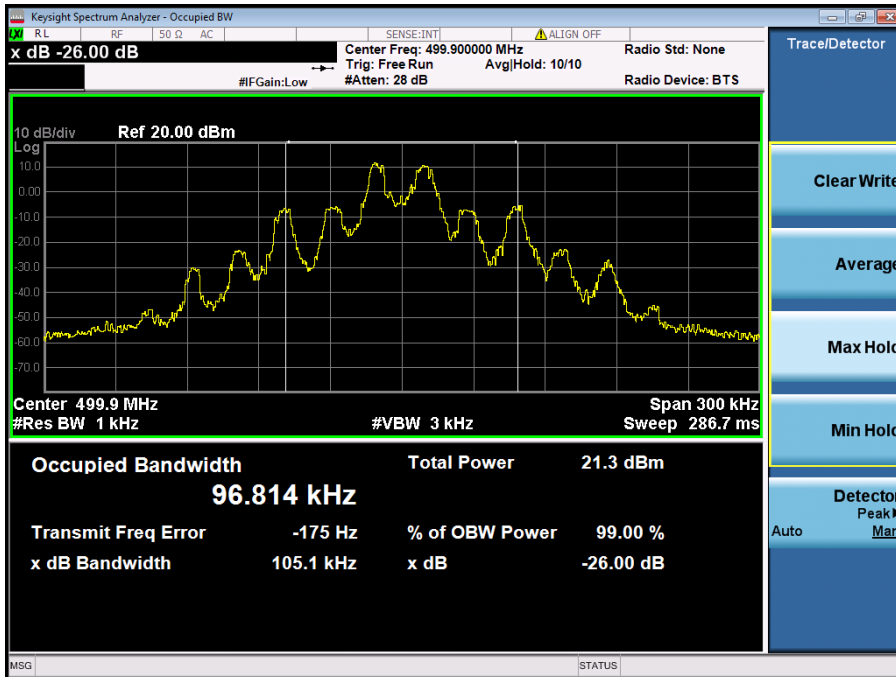
Test Plots:



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5.3 Modulation characteristics

| | |
|------------------|---|
| Test Requirement | FCC Part 74.861 (e)(3) |
| Test Method: | ANSI C63.26-2015 Section 5.3 |
| Limit: | In accordance with paragraph 74.861(e)(3), for low power auxiliary stations operating in the bands allocated for TV broadcasting, any form of modulation may be used. A maximum deviation of $\pm 75\text{kHz}$ is permitted when frequency modulation is employed. |

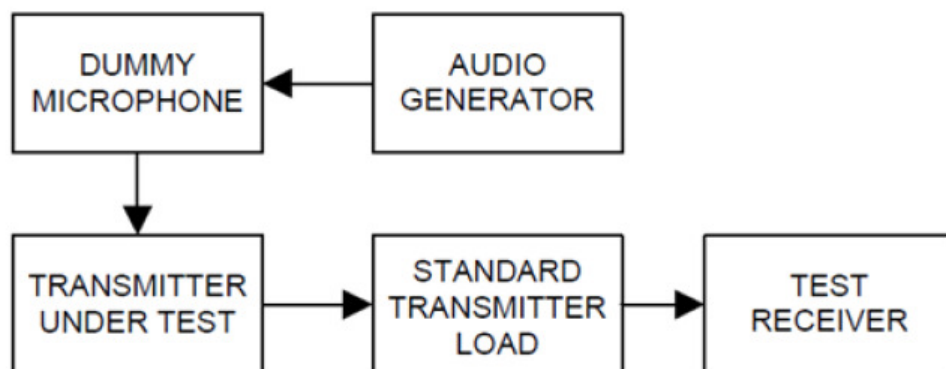
5.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1010 mbar

Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

5.3.2 Test Setup Diagram



5.3.3 Measurement Procedure and Data



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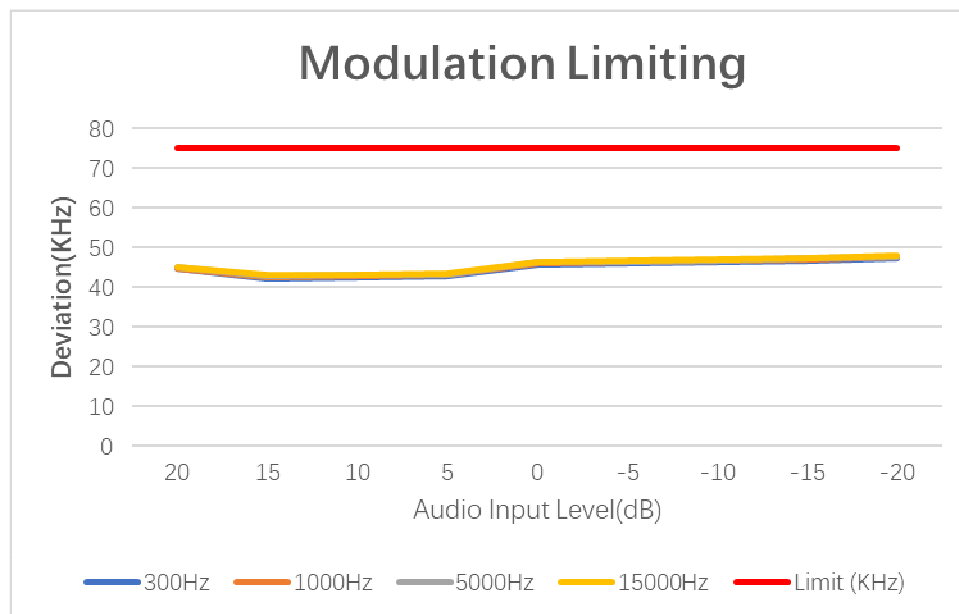
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476.2MHz

| AF Level(dB) | Deviation(KHz) | | | | Limit (KHz) |
|--------------|----------------|------|-------|------|-------------|
| | 0.3 | 1 | 5 | 15 | |
| 20 | 44.7 | 44.8 | 45.1 | 45.2 | 75.0 |
| 15 | 42.4 | 42.6 | 42.8 | 43.1 | 75.0 |
| 10 | 42.7 | 42.9 | 43.1 | 43.3 | 75.0 |
| 5 | 42.9 | 43.1 | 43.3 | 43.5 | 75.0 |
| 0 | 45.9 | 46.1 | 46.3 | 46.5 | 75.0 |
| -5 | 46.2 | 46.4 | 46.5 | 46.7 | 75.0 |
| -10 | 46.5 | 46.7 | 46.9 | 47.1 | 75.0 |
| -15 | 46.9 | 47.1 | 47.43 | 47.5 | 75.0 |
| -20 | 47.5 | 47.7 | 47.8 | 47.9 | 75.0 |



486.7MHz

| AF Level(dB) | Deviation(KHz) | | | | Limit (KHz) |
|--------------|----------------|------|------|------|-------------|
| | 0.3 | 1 | 5 | 15 | |
| 20 | 44.6 | 44.8 | 44.9 | 45.3 | 75.0 |
| 15 | 42.3 | 42.5 | 42.7 | 42.9 | 75.0 |
| 10 | 42.5 | 42.6 | 42.8 | 43.1 | 75.0 |
| 5 | 43.1 | 43.4 | 43.6 | 43.7 | 75.0 |



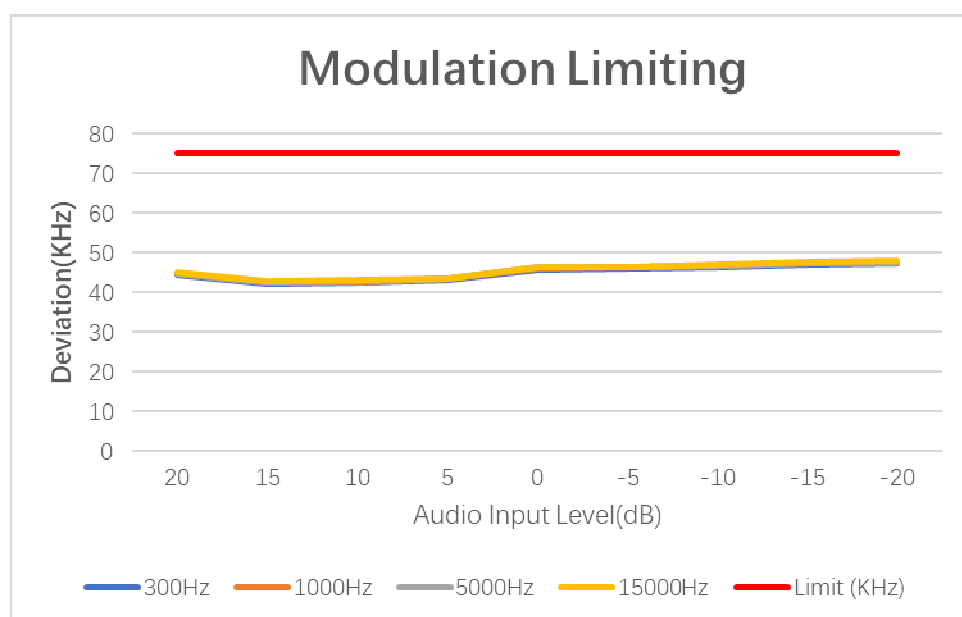
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| | | | | | |
|-----|------|------|------|------|------|
| 0 | 45.9 | 46.1 | 46.3 | 46.5 | 75.0 |
| -5 | 46.1 | 46.3 | 46.4 | 46.6 | 75.0 |
| -10 | 46.5 | 46.7 | 46.9 | 47.1 | 75.0 |
| -15 | 47.1 | 47.3 | 47.5 | 47.7 | 75.0 |
| -20 | 47.3 | 47.5 | 47.7 | 47.9 | 75.0 |



499.9MHz

| AF Level(dB) | Deviation(KHz) | | | | Limit (KHz) |
|--------------|----------------|------|------|------|-------------|
| | 0.3 | 1 | 5 | 15 | |
| 20 | 44.5 | 44.6 | 44.8 | 44.9 | 75.0 |
| 15 | 42.5 | 42.7 | 42.8 | 43.2 | 75.0 |
| 10 | 42.4 | 42.7 | 42.9 | 43.1 | 75.0 |
| 5 | 42.8 | 42.9 | 43.2 | 43.4 | 75.0 |
| 0 | 45.7 | 45.9 | 46.2 | 46.4 | 75.0 |
| -5 | 45.8 | 46.1 | 46.3 | 46.5 | 75.0 |
| -10 | 46.2 | 46.4 | 46.7 | 46.9 | 75.0 |
| -15 | 46.0 | 46.2 | 46.4 | 46.7 | 75.0 |
| -20 | 46.8 | 47.1 | 47.3 | 47.6 | 75.0 |



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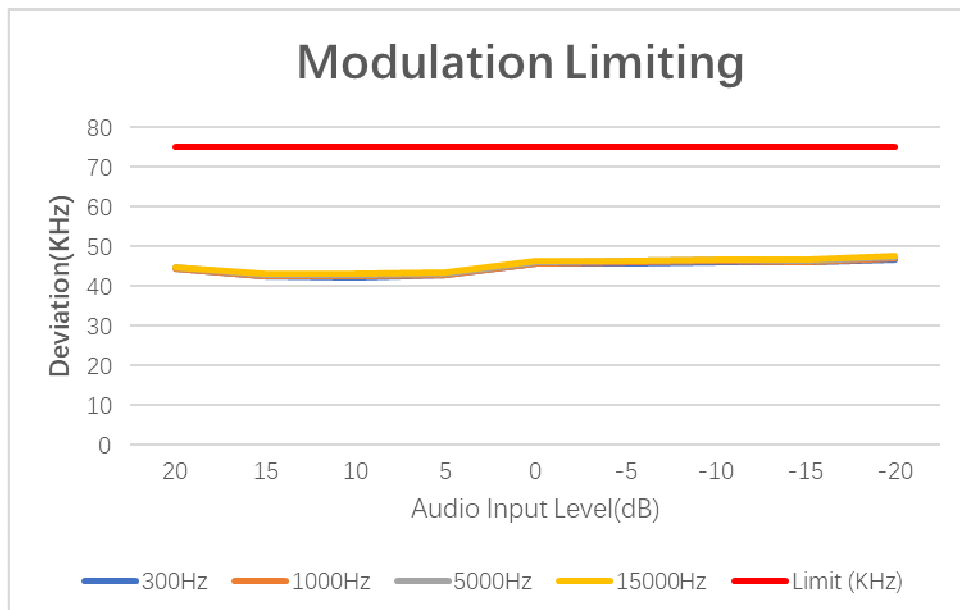
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572.2MHz

| AF Level(dB) | Deviation(KHz) | | | | Limit (KHz) |
|-----------------|----------------|------|------|------|----------------|
| | 0.3 | 1 | 5 | 15 | |
| 20 | 44.9 | 45.2 | 45.1 | 45.3 | 75.0 |
| 15 | 42.6 | 42.8 | 43.1 | 43.2 | 75.0 |
| 10 | 42.9 | 43.1 | 43.4 | 43.6 | 75.0 |
| 5 | 43.1 | 43.3 | 43.6 | 43.8 | 75.0 |
| 0 | 46.1 | 45.8 | 46.3 | 46.5 | 75.0 |
| -5 | 46.3 | 46.2 | 46.6 | 46.7 | 75.0 |
| -10 | 46.8 | 46.7 | 46.9 | 47.1 | 75.0 |
| -15 | 47.1 | 46.9 | 47.4 | 47.6 | 75.0 |
| -20 | 47.8 | 47.7 | 47.8 | 47.9 | 75.0 |



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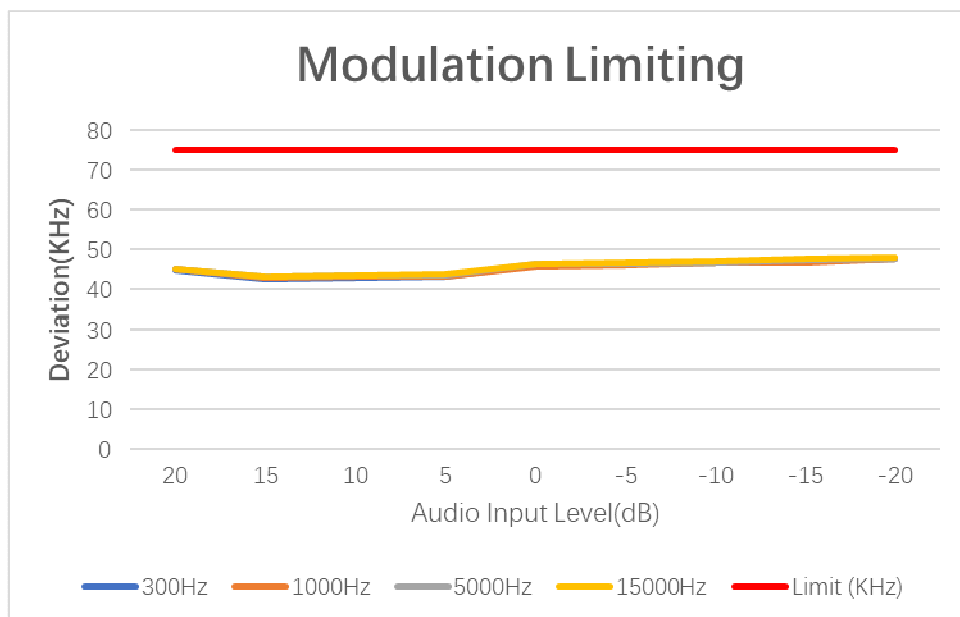
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582.7MHz

| AF Level(dB) | Deviation(KHz) | | | | Limit (KHz) |
|--------------|----------------|------|------|------|-------------|
| | 0.3 | 1 | 5 | 15 | |
| 20 | 44.8 | 45.9 | 45.1 | 45.2 | 75.0 |
| 15 | 42.5 | 42.6 | 42.8 | 42.9 | 75.0 |
| 10 | 42.7 | 43.9 | 44.1 | 44.2 | 75.0 |
| 5 | 43.2 | 43.4 | 43.6 | 43.7 | 75.0 |
| 0 | 46.2 | 46.3 | 46.4 | 46.6 | 75.0 |
| -5 | 46.2 | 46.3 | 46.4 | 46.6 | 75.0 |
| -10 | 46.7 | 46.8 | 47.1 | 47.2 | 75.0 |
| -15 | 47.3 | 46.5 | 47.7 | 47.8 | 75.0 |
| -20 | 47.6 | 47.8 | 47.9 | 48.1 | 75.0 |



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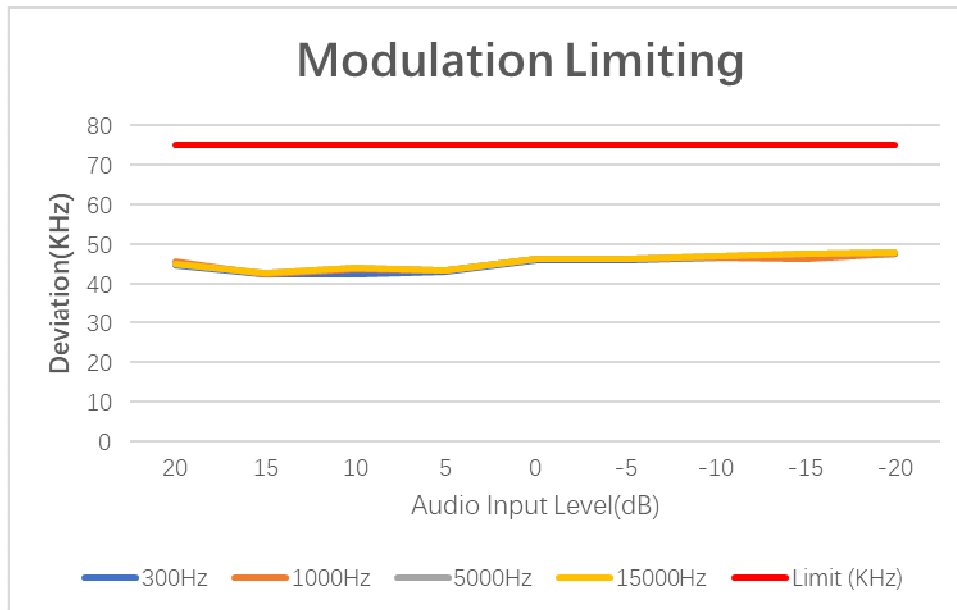
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595.9MHz

| AF Level(dB) | Deviation(KHz) | | | | Limit (KHz) |
|--------------|----------------|------|------|------|-------------|
| | 0.3 | 1 | 5 | 15 | |
| 20 | 44.3 | 44.5 | 44.7 | 44.9 | 75.0 |
| 15 | 42.1 | 42.3 | 42.5 | 42.7 | 75.0 |
| 10 | 42.2 | 42.4 | 42.6 | 42.8 | 75.0 |
| 5 | 42.7 | 42.9 | 43.1 | 43.3 | 75.0 |
| 0 | 45.8 | 45.9 | 46.1 | 46.3 | 75.0 |
| -5 | 45.6 | 45.8 | 46.1 | 46.3 | 75.0 |
| -10 | 46.1 | 46.2 | 46.5 | 46.7 | 75.0 |
| -15 | 45.9 | 46.1 | 46.3 | 46.6 | 75.0 |
| -20 | 47.1 | 47.3 | 47.5 | 47.7 | 75.0 |



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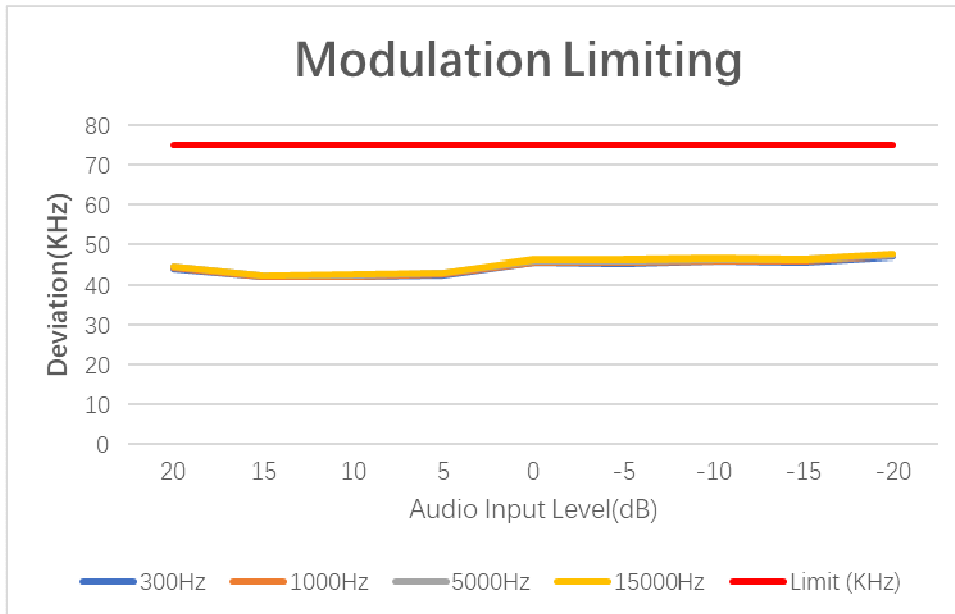
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5.4 Radiated Spurious Emissions

Test Requirement FCC Part 74.861(e)(7) FCC Part 2.1053

Test Method: EN300422-1 V1.4.2

Measurement Distance: 3m

Limit:

| Frequency range | Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz) | Bandwidth |
|---------------------|---|-----------|
| 25 MHz to 47 MHz | -36dBm | 100 kHz |
| 47 MHz to 74 MHz | -54dBm | 100 kHz |
| 74 MHz to 87,5 MHz | -36dBm | 100 kHz |
| 87,5 MHz to 137 MHz | -54dBm | 100 kHz |
| 137 MHz to 174 MHz | -36dBm | 100 kHz |
| 174 MHz to 230 MHz | -54dBm | 100 kHz |
| 230 MHz to 470 MHz | -36dBm | 100 kHz |
| 470 MHz to 862 MHz | -54dBm | 100 kHz |
| 862 MHz to 1 GHz | -36dBm | 100 kHz |
| Above 1GHz | -30dBm | 1MHz |

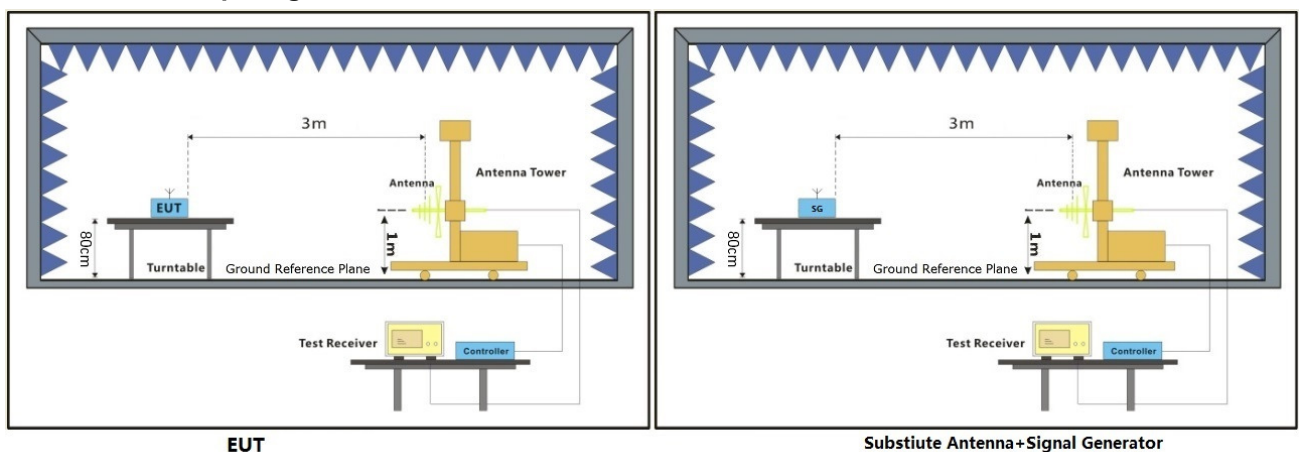
5.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1010 mbar

Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

5.4.2 Test Setup Diagram



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5.4.3 Measurement Procedure and Data

Test 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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Test data for 476.2MHz

| Maximum Frequency | Spurious Emission position and Level | | Limit | Over Limit |
|-------------------|--------------------------------------|--------|-------|------------|
| MHz | Polarity | dBm | dBm | dB |
| 37.812 | V | -56.47 | -13 | -43.47 |
| 63.983 | V | -68.71 | -13 | -55.71 |
| 99.18 | V | -68.67 | -13 | -55.67 |
| 190.405 | V | -82.52 | -13 | -69.52 |
| 510.044 | V | -78.16 | -13 | -65.16 |
| 771.449 | V | -72.83 | -13 | -59.83 |
| 1356.221 | V | -53.59 | -13 | -40.59 |
| 5658.47 | V | -46.43 | -13 | -33.43 |
| 9561.854 | V | -41.38 | -13 | -28.38 |
| 37.548 | H | -55.46 | -13 | -42.46 |
| 49.881 | H | -74.75 | -13 | -61.75 |
| 98.487 | H | -76.73 | -13 | -63.73 |
| 198.588 | H | -85 | -13 | -72 |
| 535.707 | H | -75.25 | -13 | -62.25 |
| 771.449 | H | -72.75 | -13 | -59.75 |
| 1356.368 | H | -52.59 | -13 | -39.59 |
| 5658.473 | H | -46.32 | -13 | -33.32 |
| 9562.021 | H | -41.24 | -13 | -28.24 |



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Test data for 486.7MHz

| Maximum Frequency | Spurious Emission position and Level | | Limit | Over Limit |
|-------------------|--------------------------------------|--------|-------|------------|
| MHz | Polarity | dBm | dBm | dB |
| 38.078 | V | -56.69 | -13 | -43.69 |
| 49.881 | V | -74.5 | -13 | -61.5 |
| 62.431 | V | -69.93 | -13 | -56.93 |
| 96.436 | V | -70.56 | -13 | -57.56 |
| 198.588 | V | -83.66 | -13 | -70.66 |
| 517.248 | V | -77.79 | -13 | -64.79 |
| 1326.214 | V | -52.94 | -13 | -39.94 |
| 5458.324 | V | -47.24 | -13 | -30.24 |
| 9256.584 | V | -43.02 | -13 | -30.02 |
| 37.548 | H | -55.37 | -13 | -42.37 |
| 48.163 | H | -70.63 | -13 | -57.63 |
| 62.651 | H | -75.98 | -13 | -62.98 |
| 97.798 | H | -78.1 | -13 | -65.1 |
| 541.373 | H | -76.34 | -13 | -63.34 |
| 682.348 | H | -74.81 | -13 | -61.81 |
| 1319.264 | H | -57.21 | -13 | -44.21 |
| 5458.561 | H | -45.24 | -13 | -32.24 |
| 9256.714 | H | -43.38 | -13 | -30.38 |



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Test data for 499.9MHz

| Maximum Frequency | Spurious Emission position and Level | | Limit | Over Limit |
|-------------------|--------------------------------------|--------|-------|------------|
| MHz | Polarity | dBm | dBm | dB |
| 39.437 | V | -58.61 | -13 | -45.61 |
| 50.586 | V | -78.2 | -13 | -65.2 |
| 64.659 | V | -69.79 | -13 | -56.79 |
| 99.528 | V | -69.02 | -13 | -56.02 |
| 510.044 | V | -77.48 | -13 | -64.48 |
| 758.041 | V | -72.96 | -13 | -59.96 |
| 1326.214 | V | -54.21 | -13 | -41.21 |
| 5457.675 | V | -46.4 | -13 | -33.4 |
| 9254.236 | V | -40.32 | -13 | -27.32 |
| 36.895 | H | -56.23 | -13 | -43.23 |
| 52.575 | H | -78.99 | -13 | -65.99 |
| 98.142 | H | -77.44 | -13 | -64.44 |
| 187.096 | H | -86.8 | -13 | -73.8 |
| 530.101 | H | -77.21 | -13 | -64.21 |
| 739.661 | H | -74.27 | -13 | -61.27 |
| 1301.315 | H | -56.85 | -13 | -43.85 |
| 5355.624 | H | -46.41 | -13 | -33.41 |
| 9863.987 | H | -42.28 | -13 | -29.28 |



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Test data for 572.2MHz

| Maximum Frequency | Spurious Emission position and Level | | Limit | Over Limit |
|-------------------|--------------------------------------|--------|-------|------------|
| MHz | Polarity | dBm | dBm | dB |
| 26.985 | V | -55.98 | -13 | -42.98 |
| 63.785 | V | -67.85 | -13 | -54.85 |
| 101.23 | V | -69.26 | -13 | -56.26 |
| 193.256 | V | -83.01 | -13 | -70.01 |
| 498.65 | V | -77.98 | -13 | -64.98 |
| 780.246 | V | -73.02 | -13 | -60.02 |
| 1358.654 | V | -53.45 | -13 | -40.45 |
| 5659.212 | V | -46.58 | -13 | -33.58 |
| 9563.258 | V | -41.56 | -13 | -28.56 |
| 37.651 | H | -55.72 | -13 | -42.72 |
| 49.924 | H | -73.98 | -13 | -60.98 |
| 97.652 | H | -76.53 | -13 | -63.53 |
| 198.632 | H | -84.25 | -13 | -71.25 |
| 537.365 | H | -73.26 | -13 | -60.26 |
| 774.265 | H | -73.01 | -13 | -60.01 |
| 1357.021 | H | -53.04 | -13 | -40.04 |
| 5658.624 | H | -46.58 | -13 | -33.58 |
| 9563.24 | H | -42.34 | -13 | -29.34 |



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Test data for 582.7MHz

| Maximum Frequency | Spurious Emission position and Level | | Limit | Over Limit |
|-------------------|--------------------------------------|--------|-------|------------|
| MHz | Polarity | dBm | dBm | dB |
| 38.129 | V | -55.69 | -13 | -42.69 |
| 49.985 | V | -73.69 | -13 | -60.69 |
| 65.321 | V | -70.12 | -13 | -57.12 |
| 97.654 | V | -70.26 | -13 | -57.26 |
| 198.872 | V | -82.98 | -13 | -69.98 |
| 550.263 | V | -76.98 | -13 | -63.98 |
| 1330.241 | V | -53.94 | -13 | -40.94 |
| 5460.289 | V | -46.26 | -13 | -33.26 |
| 9264.231 | V | -43.89 | -13 | -30.89 |
| 38.654 | H | -55.64 | -13 | -42.64 |
| 48.965 | H | -69.78 | -13 | -56.78 |
| 63.267 | H | -75.58 | -13 | -62.58 |
| 98.658 | H | -77.89 | -13 | -54.89 |
| 543.265 | H | -75.75 | -13 | -62.75 |
| 690.245 | H | -74.36 | -13 | -61.36 |
| 1330.278 | H | -51.21 | -13 | -38.21 |
| 5456.289 | H | -45.21 | -13 | -32.21 |
| 9270.612 | H | -42.79 | -13 | -29.79 |



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Test data for 595.9MHz

| Maximum Frequency | Spurious Emission position and Level | | Limit | Over Limit |
|-------------------|--------------------------------------|--------|-------|------------|
| MHz | Polarity | dBm | dBm | dB |
| 39.654 | V | -59.42 | -13 | -46.42 |
| 51.268 | V | -77.68 | -13 | -64.68 |
| 66.874 | V | -70.12 | -13 | -57.12 |
| 102.245 | V | -67.68 | -13 | -54.68 |
| 520.314 | V | -78.01 | -13 | -65.01 |
| 770.265 | V | -71.97 | -13 | -58.97 |
| 1340.265 | V | -53.56 | -13 | -40.56 |
| 5470.261 | V | -46.21 | -13 | -33.21 |
| 9270.364 | V | -41.25 | -13 | -28.25 |
| 38.521 | H | -57.64 | -13 | -44.64 |
| 51.246 | H | -76.59 | -13 | -63.59 |
| 99.867 | H | -76.89 | -13 | -63.89 |
| 191.235 | H | -84.98 | -13 | -71.98 |
| 532.412 | H | -76.24 | -13 | -63.24 |
| 750.325 | H | -73.65 | -13 | -60.65 |
| 1335.698 | H | -56.98 | -13 | -43.98 |
| 5360.284 | H | -47.21 | -13 | -34.21 |
| 9870.264 | H | -43.02 | -13 | -30.02 |

Remark:

1. -- Means other points for values lower than limits and not recorded.
2. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency, and only recorded worst spurious emissions.



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5.5 Necessary bandwidth (BN) for analogue systems

Test Requirement FCC Part 74.861 (e)(6), (e)(7) FCC Part 2.1049

Test Method: EN300422-1 V1.4.2

Limit:

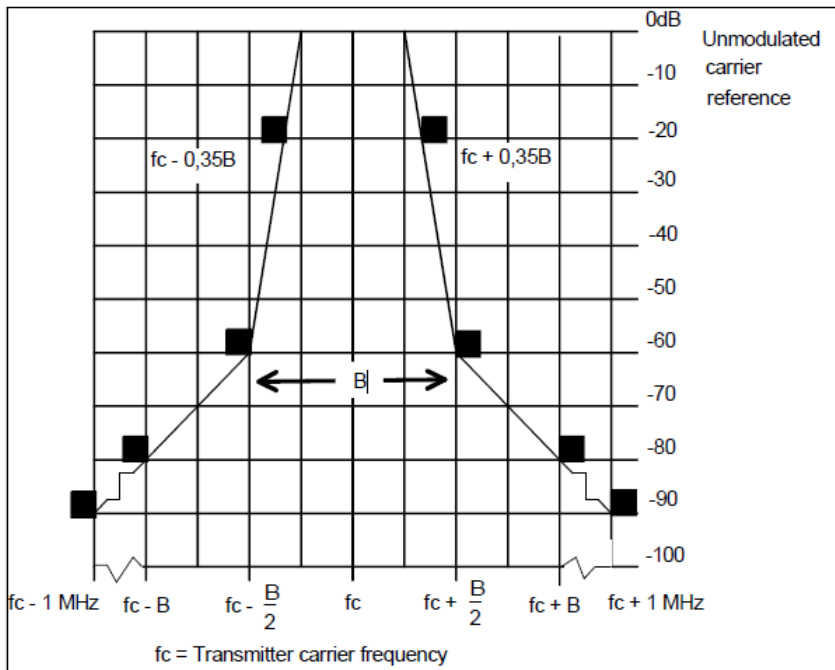


Figure 3: Spectrum mask for analogue systems in all bands

5.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1010 mbar

Test mode: 02: Tx mode, Keep the EUT in transmitting mode.



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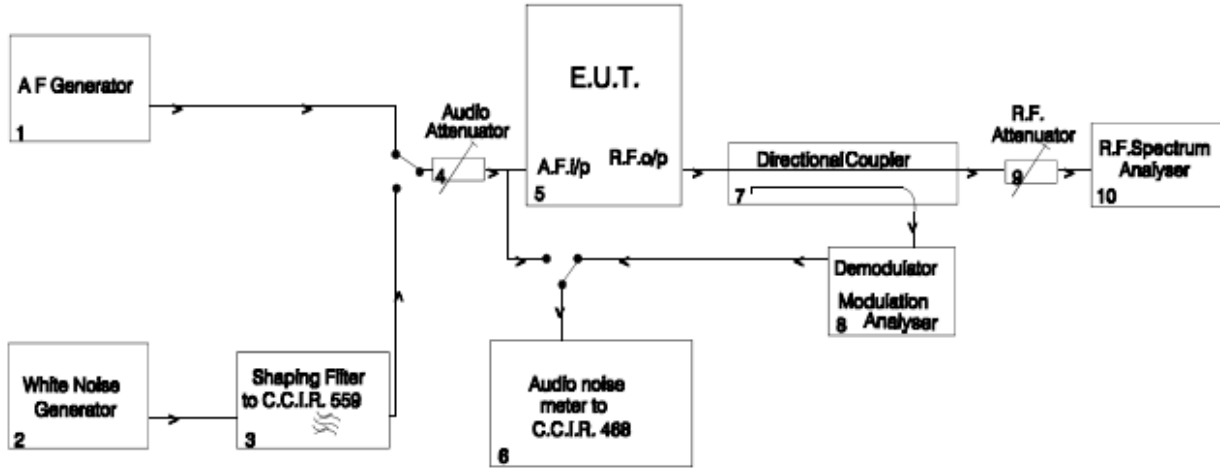
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5.5.2 Test Setup Diagram



5.5.3 Measurement Procedure and Data



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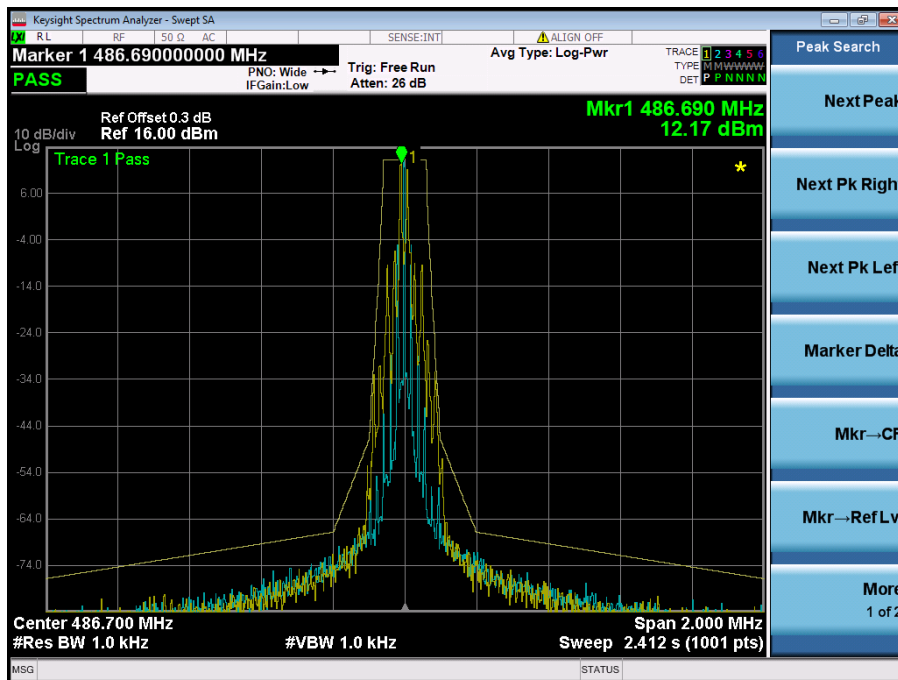
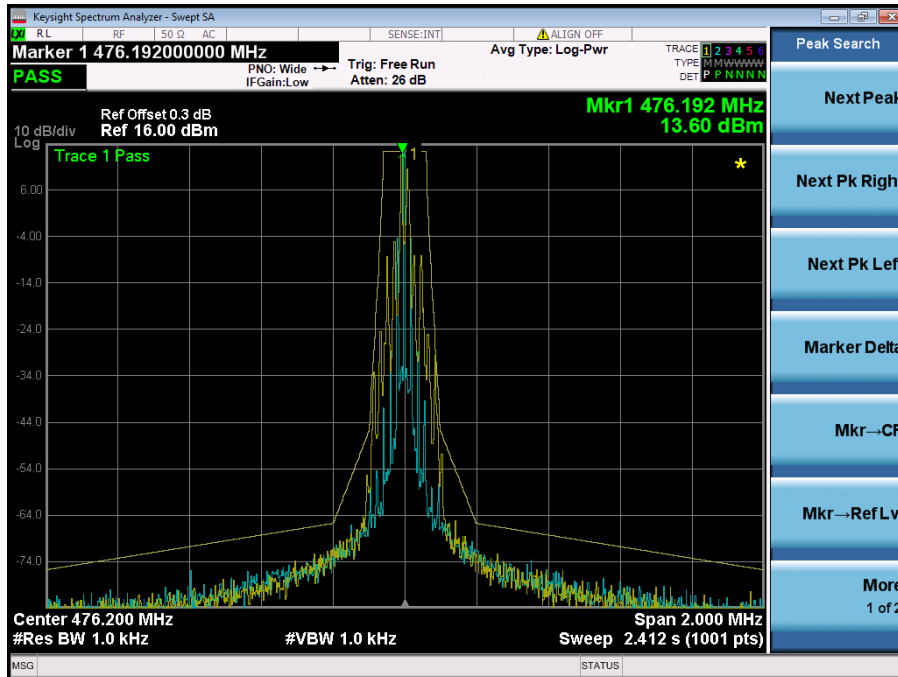
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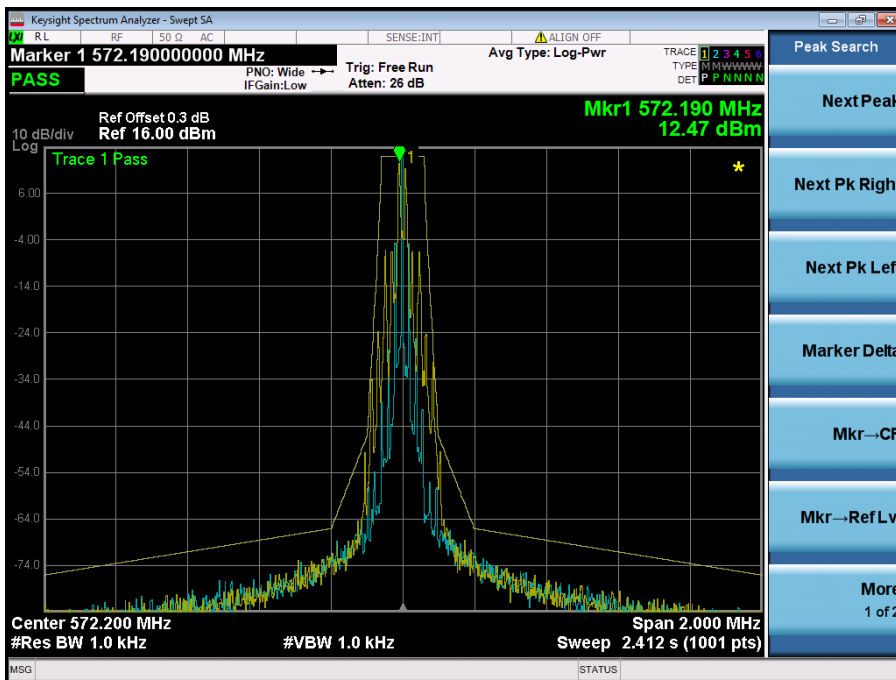
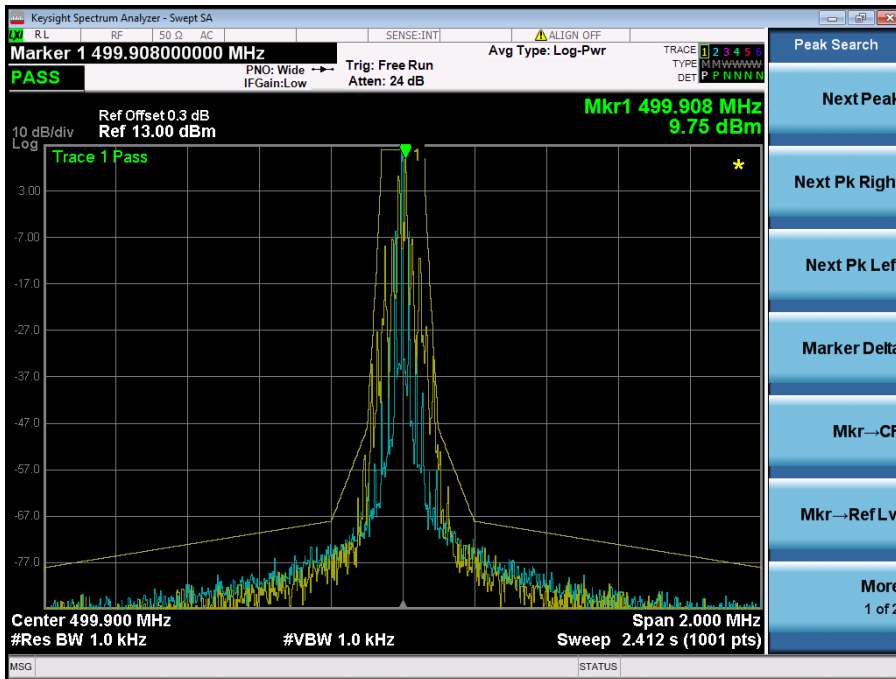
Results:



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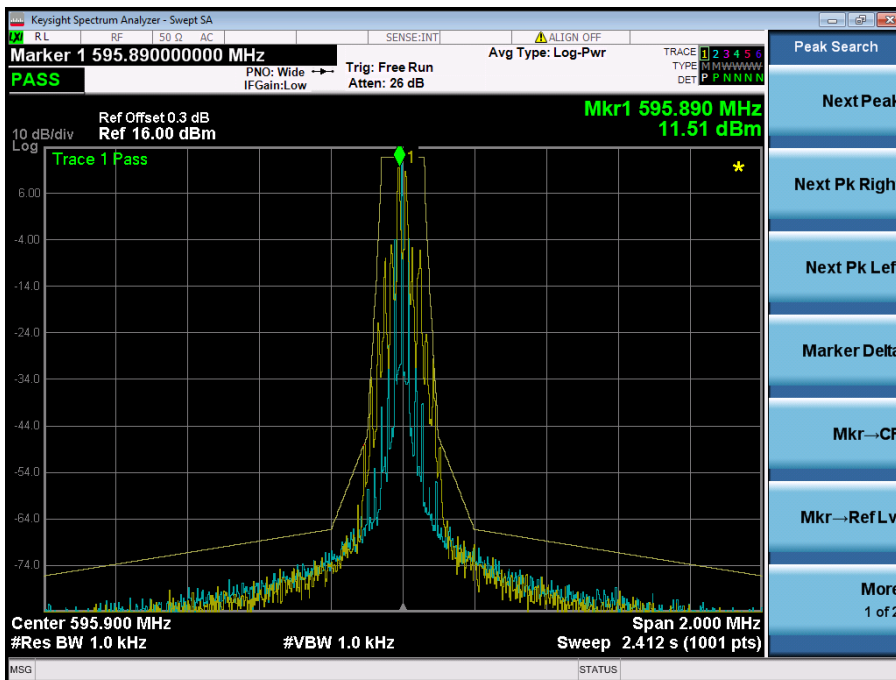
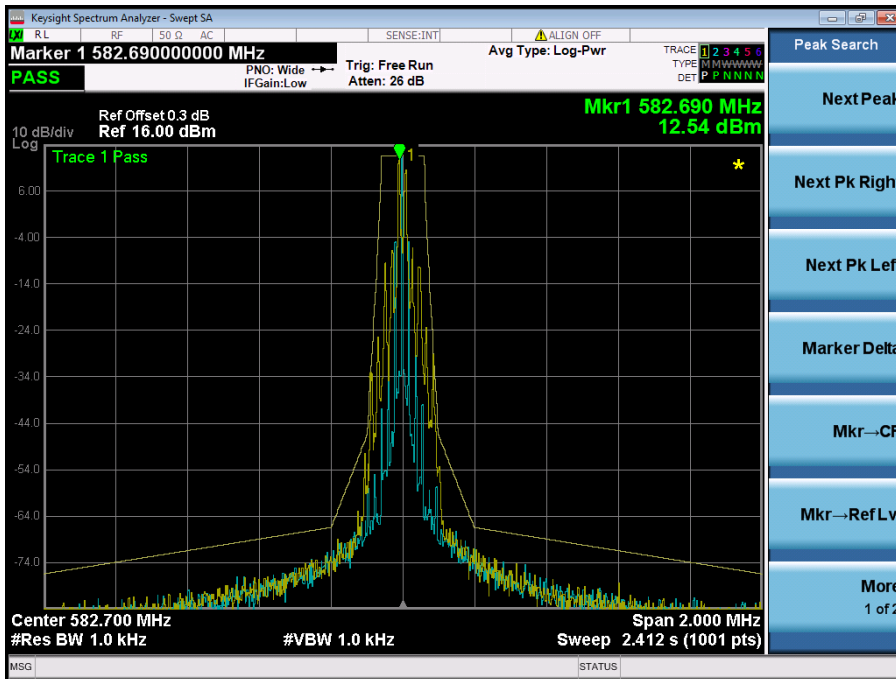
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5.6 Frequency Stability

Test Requirement FCC Part 74.861 (e)(4), FCC Part 2.1055
Test Method: ANSI C63.26-2015 Section 5.6
Limit: The frequency tolerance of the transmitter shall be ± 50 ppm.

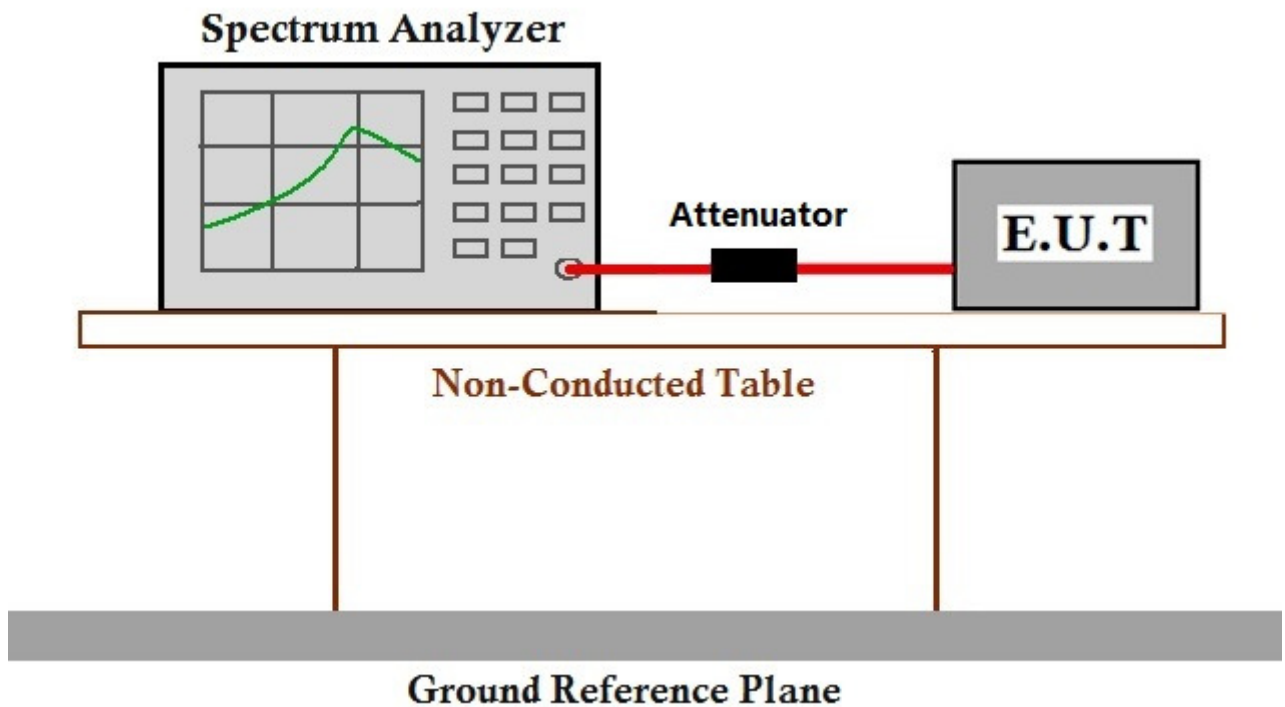
5.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1010 mbar

Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

5.6.2 Test Setup Diagram



5.6.3 Measurement Procedure and Data



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| Assigned Frequency: 476.2MHz | | | | | |
|------------------------------|------------------|-------------------------|--------------------------|-----------------|--------|
| Voltage(V) | Temperature (°C) | Measured Frequency(MHz) | Frequency Deviation(ppm) | FCC Limit (ppm) | Result |
| 120 | -30 | 476.2000089 | 0.0187 | ±50 | Pass |
| | -20 | 476.2000051 | 0.0107 | | |
| | -10 | 476.2000078 | 0.0164 | | |
| | 0 | 476.2000055 | 0.0115 | | |
| | 10 | 476.2000051 | 0.0107 | | |
| | 20 | 476.2000052 | 0.0109 | | |
| | 30 | 476.2000079 | 0.0166 | | |
| | 40 | 476.2000039 | 0.0089 | | |
| | 50 | 476.2000024 | 0.0050 | | |
| 100.2 | 25 | 476.2000032 | 0.0067 | | |
| 138 | 25 | 476.2000019 | 0.0040 | | |

| Assigned Frequency: 486.7MHz | | | | | |
|------------------------------|------------------|-------------------------|--------------------------|-----------------|--------|
| Voltage(V) | Temperature (°C) | Measured Frequency(MHz) | Frequency Deviation(ppm) | FCC Limit (ppm) | Result |
| 120 | -30 | 486.7000083 | 0.0171 | ±50 | Pass |
| | -20 | 486.7000079 | 0.0162 | | |
| | -10 | 486.7000035 | 0.0072 | | |
| | 0 | 486.7000017 | 0.0035 | | |
| | 10 | 486.7000024 | 0.0049 | | |
| | 20 | 486.7000029 | 0.0060 | | |
| | 30 | 486.7000045 | 0.0092 | | |
| | 40 | 486.7000087 | 0.0179 | | |
| | 50 | 486.7000095 | 0.0195 | | |
| 100.2 | 25 | 486.7000098 | 0.0201 | | |
| 138 | 25 | 486.7000089 | 0.0183 | | |



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| Assigned Frequency: 499.9MHz | | | | | |
|------------------------------|------------------|-------------------------|--------------------------|-----------------|--------|
| Voltage(V) | Temperature (°C) | Measured Frequency(MHz) | Frequency Deviation(ppm) | FCC Limit (ppm) | Result |
| 120 | -30 | 499.9000091 | 0.0182 | ±50 | Pass |
| | -20 | 499.9000058 | 0.0116 | | |
| | -10 | 499.9000087 | 0.0174 | | |
| | 0 | 499.9000063 | 0.0126 | | |
| | 10 | 499.9000059 | 0.0118 | | |
| | 20 | 499.9000058 | 0.0116 | | |
| | 30 | 499.9000085 | 0.0170 | | |
| | 40 | 499.9000045 | 0.0090 | | |
| | 50 | 499.9000030 | 0.0060 | | |
| 100.2 | 25 | 499.9000039 | 0.0078 | ±50 | Pass |
| 138 | 25 | 499.9000026 | 0.0052 | | |



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6 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

7 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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