

ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT

EUT Description: Handheld Ultrasound Scanner
Applicant: Nurodata Inc.
5 F.-3, No. 6-2, Sec. 2, Shengyi Rd., Hsinchu Science Park,
Zhubei City, Hsinchu County 302058, Taiwan (R.O.C.)
Manufacturer: ACME PORTABLE CORP.
5 F., No. 25, Wuquan 3rd Rd., Wugu Dist., New Taipei City
24891, Taiwan (R.O.C.)
Brand Name: NUSONO (Nurodata)
Model No.: NUSONO-C35
Family Model No.: NUSONO-L75; NUSONO-P25
Model Difference: Refer to section 1.3
Report Number: TERF2410003123E2
FCC ID 2BOKR-NUSONO242681
Date of EUT Received: October 18, 2024
Date of Test: January 08, 2025 ~ January 16, 2025
Issue Date: May 12, 2025

**Approved By****Jay Lin****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|-------------|--------------|------------|--------|
| TERF2410003123E2 | 00 | Original | May 12, 2025 | Sharon Kuo | |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|-------------------------------|--|
| EUT Description | Handheld Ultrasound Scanner |
| Brand Name: | NUSONO (Nurodata) |
| Model No.: | NUSONO-C35 |
| Family Model No.: | NUSONO-L75; NUSONO-P25 |
| Model Difference: | Refer to section 1.3 |
| Hardware Version: | v1.2 |
| Firmware Version: | Android APP : A-US-20240701-1A iOS APP : I-US-20240628-1A |
| Power Supply: | 3.7Vdc from Battery or 5Vdc from AC/DC Adapter |
| Test Software (Name/Version): | TERA TERM Version 4.8.4 |

1.2 Modulation & Data Rate

| | |
|------------------|---|
| Modulation type: | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n |
| | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac |
| Transition Rate: | 802.11 a: 6 - 54 Mbps |
| | 802.11 n_HT20: up to 72.2 Mbps |
| | 802.11 n_HT40: up to 150 Mbps |
| | 802.11 ac_VHT20: up to 86.7 Mbps |
| | 802.11 ac_VHT40: up to 200 Mbps |
| | 802.11 ac_VHT80: up to 433.3 Mbps |

| Mode | Frequency Range | Channels | Rated Power(Avg) (dBm) (Worst Case) | Modulation Technology |
|---|-----------------|----------|-------------------------------------|-----------------------|
| 802.11a/ 802.11n_HT20/ 802.11ac_VHT20 | 5180 | 1 | 12.94 dBm | OFDM |
| 802.11n_HT40/ 802.11ac_VHT40 | 5190 | 1 | 13.73 dBm | OFDM |
| 802.11ac_VHT80 | 5210 | 1 | 11.20 dBm | OFDM |

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1.3 Model Difference

| Diversity Description | Original Model | Series Model | |
|-----------------------|---|---|---|
| | NUSONO-C35 | NUSONO-L75 | NUSONO-P25 |
| Components | The probe frequency and probe shell appearance are different. | | |
| Function | Frequency 3.5MHz; Measurement depth 4-18.5cm; Applicable to lungs/abdomen/ gynecology/obstetrics/bladder | Frequency 7.5MHz; Measurement depth 1-8cm; Applicable to breast/lungs/ bone and muscle/superficial tissue/blood vessels | Frequency 2.5MHz; Measurement depth 4-18.5cm; Applicable to heart/lungs/ abdomen/bladder |
| Size, Appearance | 3.5MHz Convex probe | 7.5MHz Linear probe | 2.5MHz Phased array probe |

1.4 Antenna Designation

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-------------|-------------------------|
| PCB | 5150~5250 | 5 |

Note: Antenna information is provided by the applicant.

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2013

1.6 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|--|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 SAC 2 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6 | TW0027 | TW3702 |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G | TW0028 | |

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the 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 Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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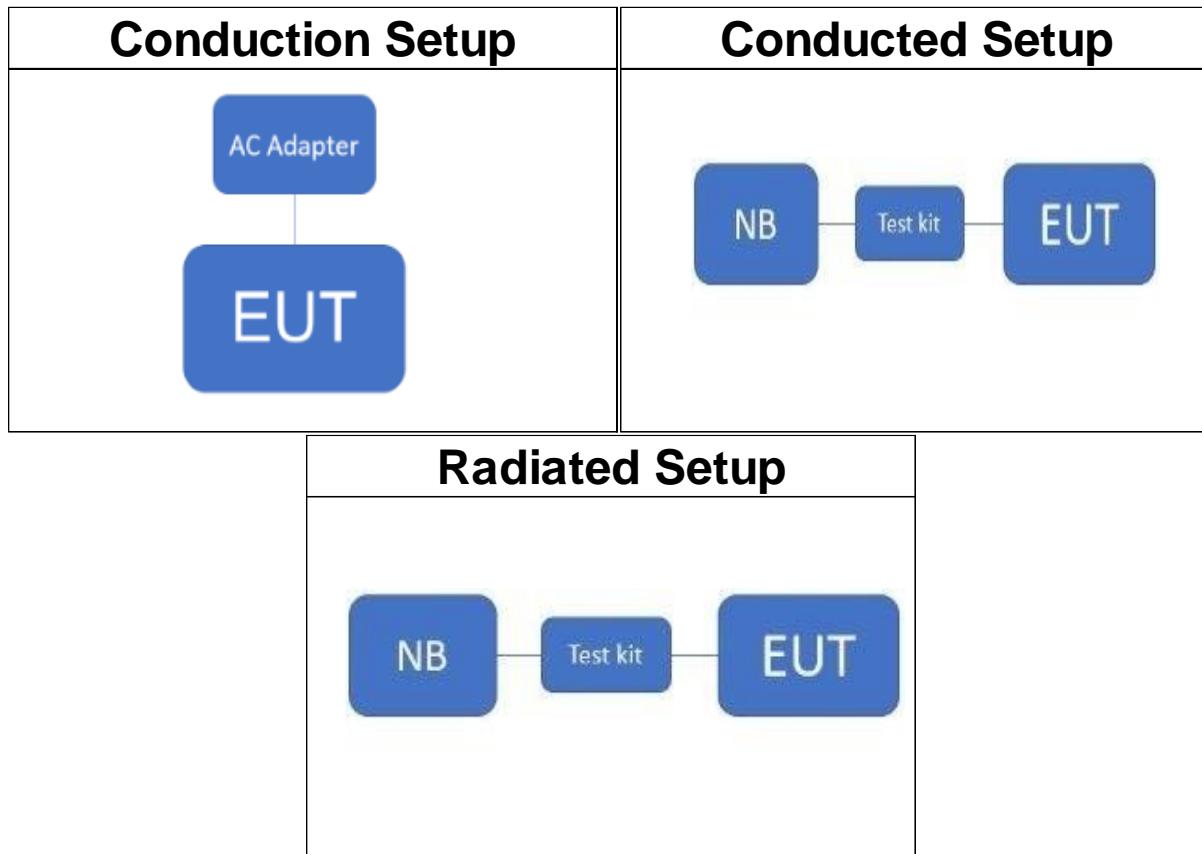
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2.5 Test Configuration



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2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction C | | | | | |
|--|---|----------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Adapter | Shenzhen Qihang Chuangshi Technology co., Ltd | QH-Z21-C15W-01 | N/A | N/A | N/A |
| USB Cable | Winplion Electronics Technology Co., Ltd | CAC2-1200W-059 | N/A | N/A | N/A |

| Conducted Emission Test Site: Conducted D | | | | | |
|---|---------------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Notebook | Lenovo | T14 | P0003332 | N/A | N/A |
| Test Kit | Goaround Tech | PL2303TA | N/A | N/A | N/A |

| Radiated Emission Test Site: SAC C | | | | | |
|------------------------------------|---------------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Notebook | HP | HSN-Q35C-4 | P0004691 | N/A | N/A |
| Test Kit | Goaround Tech | PL2303TA | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULT

| FCC Rules | Description Of Test | Result |
|----------------------------------|--|-----------|
| §15.207 | AC Power Line Conducted Emission | Compliant |
| §15.407(e) | Emission Bandwidth | Compliant |
| §15.407(a) | Maximum Conducted Output Power | Compliant |
| §15.407(a) | Power Spectral Density | Compliant |
| §15.205 §15.209 §15.407(b) | Undesirable Radiated Emissions | Compliant |
| §15.407(c) | Transmission in case of Absence of Information | Compliant |
| §15.203 | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

| UNII-1 5150 MHz ~ 5250MHz | | | | | |
|---------------------------|----------------|-------|----------------|-------|----------------|
| 20MHz | | 40MHz | | 80MHz | |
| CH | Freq. (MHz) | CH | Freq. (MHz) | CH | Freq. (MHz) |
| 36 | 5180 | 38 | 5190 | 42 | 5210 |

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

| Mode | Transmission Chain | | | | Single Transmission Spatial | Multiple Transmission Spatial |
|---|--|---|------------------------------|------------------------------|---|-------------------------------|
| | <input checked="" type="checkbox"/> 802.11 a | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | |
| <input checked="" type="checkbox"/> 802.11 n | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |
| <input checked="" type="checkbox"/> 802.11 ac | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |
| <input type="checkbox"/> 802.11 ax | <input type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

| CONDUCTED TEST | | | | | | |
|----------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180 | 36 | 36 | OFDM | 6 | ch0 |
| 802.11n_HT20 | 5180 | 36 | 36 | OFDM | MCS0 | ch0 |
| 802.11n_HT40 | 5190 | 38 | 38 | OFDM | MCS0 | ch0 |
| 802.11ac_VHT80 | 5210 | 42 | 42 | OFDM | MCS0 | ch0 |

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| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | | |
|---|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180 | 36 | 36 | OFDM | 6 | ch0 |

| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | | |
|---|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180 | 36 | 36 | OFDM | 6 | ch0 |
| 802.11n_HT20 | 5180 | 36 | 36 | OFDM | MCS0 | ch0 |
| 802.11n_HT40 | 5190 | 38 | 38 | OFDM | MCS0 | ch0 |
| 802.11ac_VHT80 | 5210 | 42 | 42 | OFDM | MCS0 | ch0 |

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty | | |
|---|-------------|------|----|
| AC Power Line Conducted Emission | +/- | 1.54 | dB |
| Emission Bandwidth | +/- | 1.38 | Hz |
| Output Power measurement | +/- | 0.97 | dB |
| Peak Power Spectral Density Measurement | +/- | 0.61 | dB |
| Frequency Stability | +/- | 1.48 | Hz |
| Temperature | +/- | 0.6 | °C |
| Humidity | +/- | 3 | % |
| DC / AC Power Source | +/- | 1 | % |

| Radiated Spurious Emission Measurement Uncertainty | | | |
|--|-----|------|----|
| Polarization: Vertical | +/- | 1.89 | dB |
| | +/- | 4.1 | dB |
| | +/- | 3.37 | dB |
| | +/- | 3.83 | dB |
| Polarization: Horizontal | +/- | 1.89 | dB |
| | +/- | 4.1 | dB |
| | +/- | 3.37 | dB |
| | +/- | 3.83 | dB |
| Radiated Spurious Emission | +/- | 2 | dB |
| | +/- | 1.59 | dB |
| | +/- | 1.71 | dB |
| | +/- | 1.64 | dB |
| | +/- | 3.84 | dB |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction C | | | | | |
|--|--------------------------------|---------------|------------------------|------------------------|-----------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Coaxial Cable | EC Lab | RF-HY-CAB-250 | RF-HY-CAB-250-01 | 03/27/2024 | 03/26/2025 |
| EMI Test Receiver | R&S | ESCI | 101342 | 04/29/2024 | 04/28/2025 |
| LISN | SCHWARZBECK Mess-Elektronik | NSLK8127 | 973 | 04/22/2024 | 04/21/2025 |
| Pulse Limiter | EC Lab | VTSD 9561F-N | 485 | 03/27/2024 | 03/26/2025 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |

6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted D | | | | | |
|---|------------|---------------------|---------------|------------------------|-----------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Attenuator | Woken | WATT-218FS-10 | RF19 | 11/14/2024 | 11/13/2025 |
| DC Block | Marvelous | MVE6114 | RF39 | 11/14/2024 | 11/13/2025 |
| Power Meter | Anritsu | ML2496A | 1804002 | 04/26/2024 | 04/25/2025 |
| Power Sensor | Anritsu | MA2411B | 1726105 | 04/26/2024 | 04/25/2025 |
| Power Sensor | Anritsu | MA2411B | 1726106 | 04/26/2024 | 04/25/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071574 | 06/28/2024 | 06/27/2025 |
| Test Software | SGS Taiwan | Radio Test Software | Ver.21 | N.C.R | N.C.R |

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6.3 Radiated Measurement

| Radiated Emission Test Site: SAC C | | | | | |
|------------------------------------|-------------------|--|---------------------------|------------------------|-----------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| 3m Site NSA | SGS | 966 chamber C | N/A | 03/02/2024 | 03/01/2025 |
| Active Loop Antenna | COM-POWER | AL-130R | 10160105 | 12/11/2024 | 12/10/2025 |
| Attenuator | Woken | WATT-218FS-10 | RF17 | 11/14/2024 | 11/13/2025 |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 9168-300 | 11/06/2024 | 11/05/2025 |
| Coaxial Cable | EMCI+Huber Suhner | RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15 | W13.01+150813+2 310002+15 | 11/14/2024 | 11/13/2025 |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/30/2024 | 04/29/2025 |
| Highpass Filter | R&S | HPF7.0 | RF168 | 11/14/2024 | 11/13/2025 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1187 | 01/24/2024 | 01/23/2025 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 08/15/2024 | 08/14/2025 |
| Lowpass Filter | Woken | EWT-56-0019 | RF163 | 11/14/2024 | 11/13/2025 |
| Notch Filter | Woken | EWT-14-0275 | RF194 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC118A45SE | 980789 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC184045SEE | 980881 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC330 | 980091 | 11/14/2024 | 11/13/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY63440390 | 02/16/2024 | 02/15/2025 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits (dBuV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

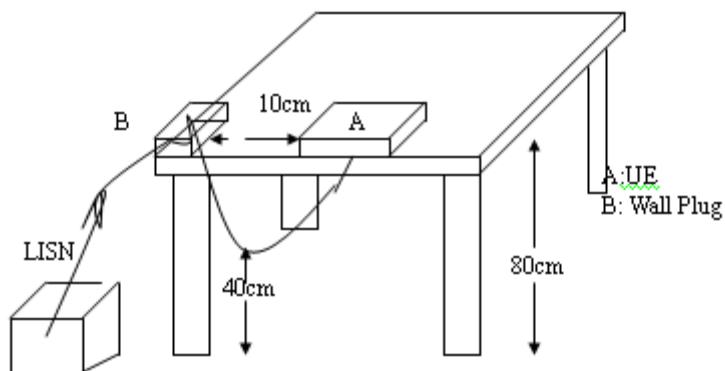
Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP



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7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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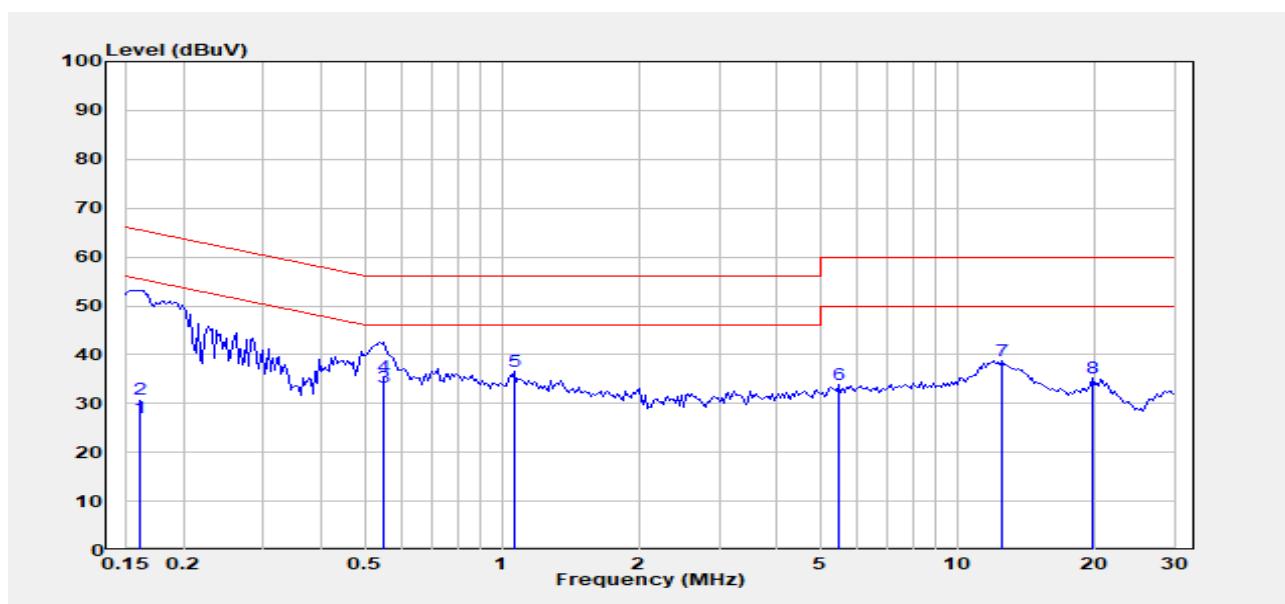
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2410003123E2 Test Site :Conduction C
 Test Mode :5G Test Date :2025-01-15
 Power :120V/60Hz Temp./Humi. :20.0°C/56%
 Probe :L1 Engineer :Alex Li
 Note: : C35



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.160 | Average | 16.50 | 10.65 | 27.15 | 55.47 | -28.32 |
| 0.160 | QP | 20.20 | 10.65 | 30.85 | 65.47 | -34.62 |
| 0.552 | Average | 22.70 | 10.63 | 33.33 | 46.00 | -12.67 |
| 0.552 | QP | 25.00 | 10.63 | 35.63 | 56.00 | -20.37 |
| 1.065 | Peak | 25.95 | 10.70 | 36.65 | 56.00 | -19.35 |
| 5.505 | Peak | 22.83 | 10.96 | 33.79 | 60.00 | -26.21 |
| 12.582 | Peak | 27.72 | 11.03 | 38.74 | 60.00 | -21.26 |
| 19.845 | Peak | 24.16 | 11.16 | 35.32 | 60.00 | -24.68 |

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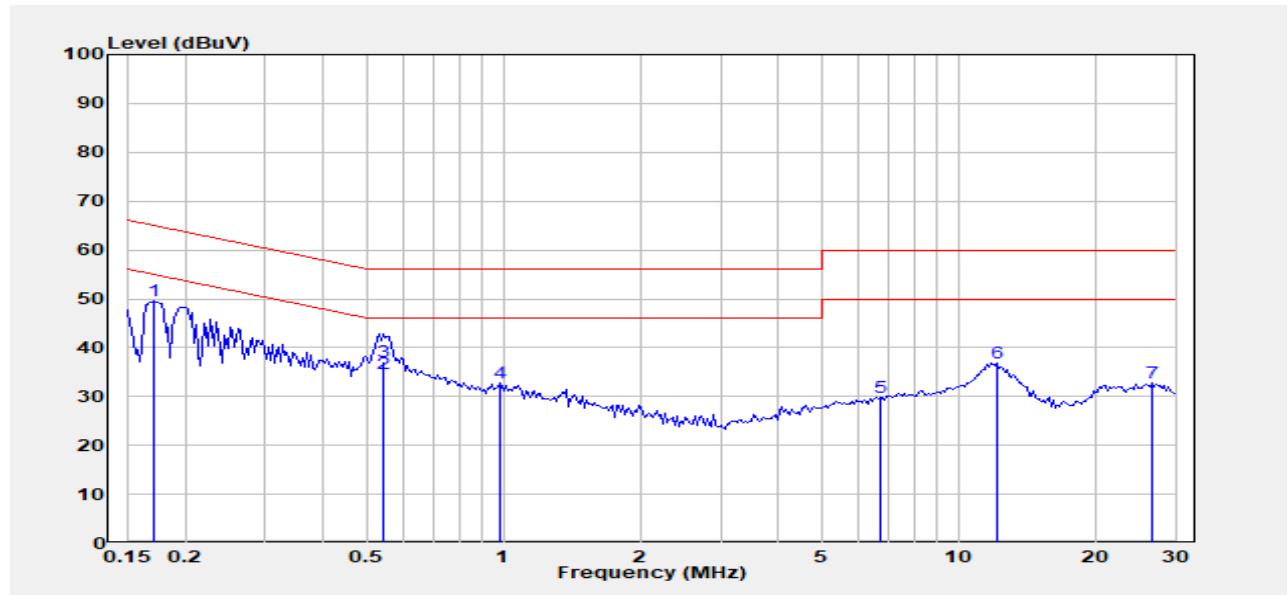
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Report Number :TERF2410003123E2
Test Mode :5G
Power :120V/60Hz
Probe :N
Note: : C35

Test Site :Conduction C
Test Date :2025-01-15
Temp./Humi. :20.9°C/62%
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|--|--------------|----------------------------|---------------------|--------------|
| 0.170 | Peak | 38.93 | 10.66 | 49.58 | 64.94 | -15.36 |
| 0.546 | Average | 24.00 | 10.61 | 34.61 | 46.00 | -11.39 |
| 0.546 | QP | 26.40 | 10.61 | 37.01 | 56.00 | -18.99 |
| 0.979 | Peak | 22.02 | 10.67 | 32.69 | 56.00 | -23.31 |
| 6.733 | Peak | 18.92 | 10.94 | 29.86 | 60.00 | -30.14 |
| 12.188 | Peak | 25.80 | 11.01 | 36.81 | 60.00 | -23.19 |
| 26.699 | Peak | 21.56 | 11.32 | 32.88 | 60.00 | -27.12 |

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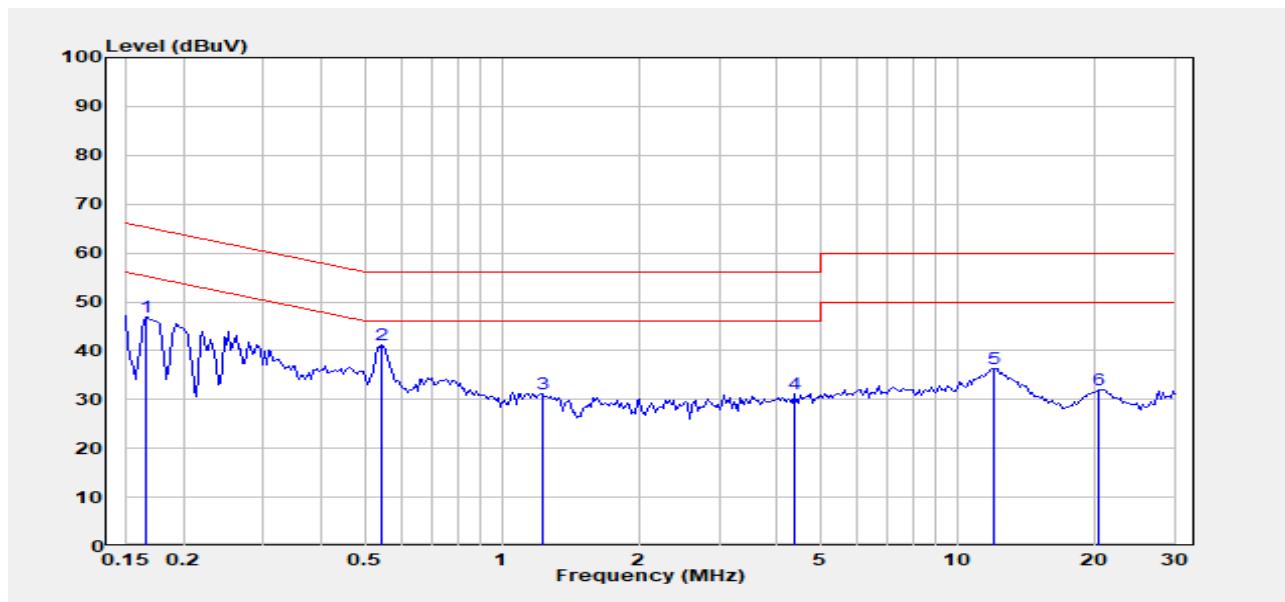
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Family model_NUSONO-L75

Report Number :TERF2410003123E2 Test Site :Conduction C
Test Mode :5G Test Date :2025-01-15
Power :120V/60Hz Temp./Humi. :20.0°C/56%
Probe :L1 Engineer :Alex Li
Note: : L75



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|--|--------------|----------------------------|---------------------|--------------|
| 0.165 | Peak | 36.34 | 10.65 | 46.99 | 65.21 | -18.22 |
| 0.546 | Peak | 30.68 | 10.62 | 41.31 | 56.00 | -14.69 |
| 1.236 | Peak | 20.55 | 10.71 | 31.27 | 56.00 | -24.73 |
| 4.407 | Peak | 20.19 | 10.92 | 31.11 | 56.00 | -24.89 |
| 12.060 | Peak | 25.38 | 11.01 | 36.39 | 60.00 | -23.61 |
| 20.486 | Peak | 20.87 | 11.17 | 32.04 | 60.00 | -27.96 |

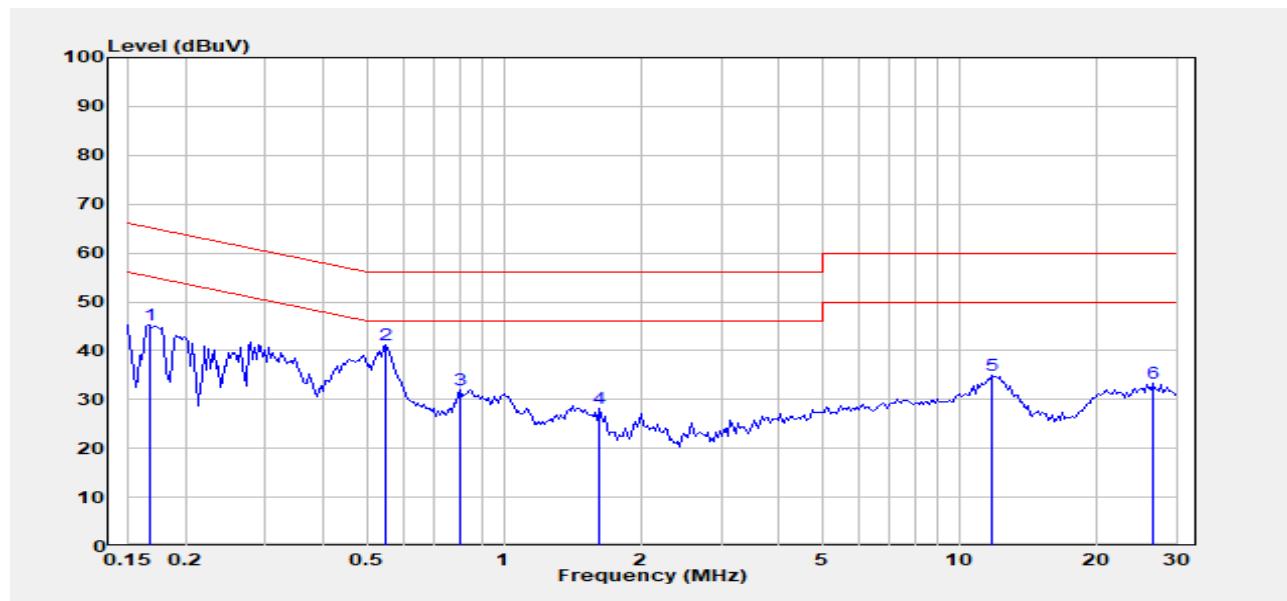
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Report Number :TERF2410003123E2
Test Mode :5G
Power :120V/60Hz
Probe :N
Note: : L75

Test Site :Conduction C
Test Date :2025-01-15
Temp./Humi. :20.9°C/62%
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|--|--------------|----------------------------|---------------------|--------------|
| 0.167 | Peak | 34.67 | 10.66 | 45.33 | 65.12 | -19.79 |
| 0.552 | Peak | 30.56 | 10.61 | 41.17 | 56.00 | -14.83 |
| 0.800 | Peak | 21.41 | 10.65 | 32.06 | 56.00 | -23.94 |
| 1.628 | Peak | 17.55 | 10.73 | 28.28 | 56.00 | -27.72 |
| 11.807 | Peak | 23.98 | 11.00 | 34.98 | 60.00 | -25.02 |
| 26.699 | Peak | 21.89 | 11.32 | 33.21 | 60.00 | -26.79 |

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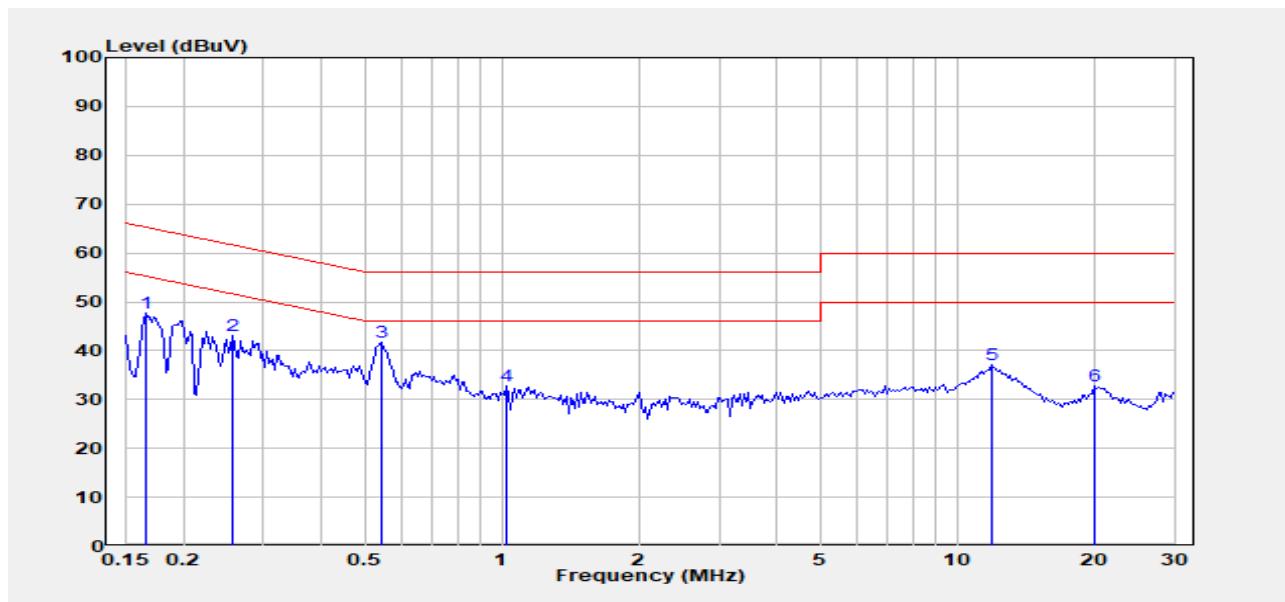
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Family model_NUSONO-P25

Report Number :TERF2410003123E2 Test Site :Conduction C
 Test Mode :5G Test Date :2025-01-15
 Power :120V/60Hz Temp./Humi. :20.0°C/56%
 Probe :L1 Engineer :Alex Li
 Note: : P25



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.165 | Peak | 36.95 | 10.65 | 47.60 | 65.21 | -17.61 |
| 0.258 | Peak | 32.53 | 10.64 | 43.17 | 61.51 | -18.34 |
| 0.546 | Peak | 30.99 | 10.62 | 41.62 | 56.00 | -14.38 |
| 1.021 | Peak | 22.17 | 10.69 | 32.86 | 56.00 | -23.14 |
| 11.933 | Peak | 26.07 | 11.01 | 37.08 | 60.00 | -22.92 |
| 20.056 | Peak | 21.55 | 11.16 | 32.71 | 60.00 | -27.29 |

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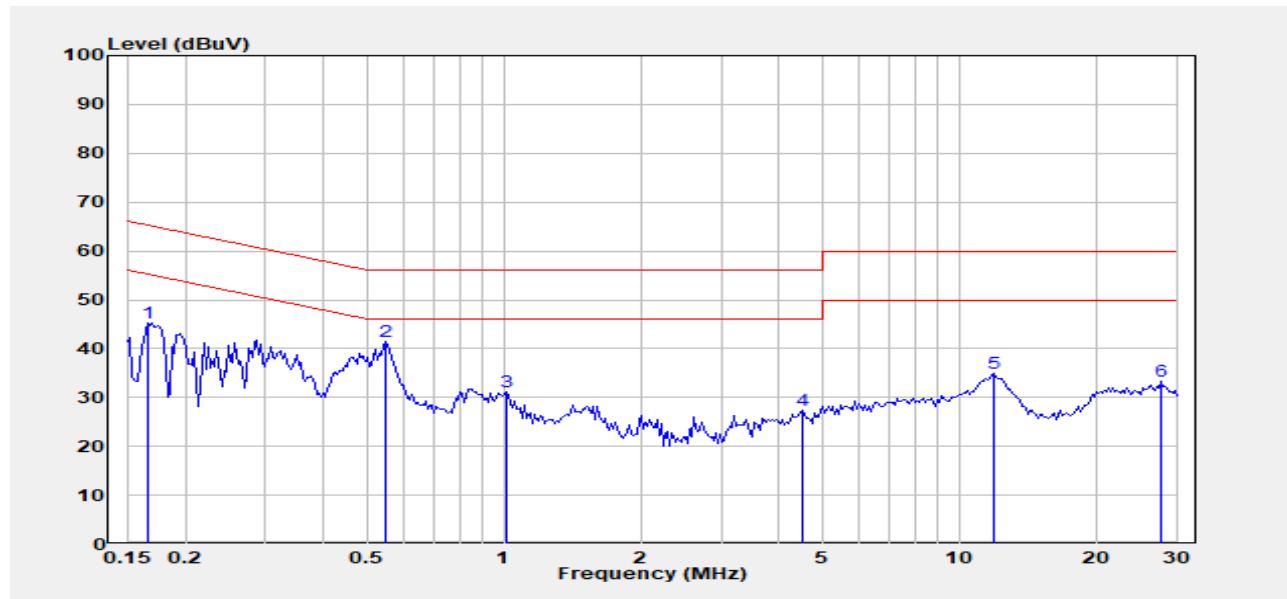
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Report Number :TERF2410003123E2
Test Mode :5G
Power :120V/60Hz
Probe :N
Note: : P25

Test Site :Conduction C
Test Date :2025-01-15
Temp./Humi. :20.9°C/62%
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|--|--------------|----------------------------|---------------------|--------------|
| 0.165 | Peak | 34.65 | 10.66 | 45.31 | 65.21 | -19.90 |
| 0.552 | Peak | 30.78 | 10.61 | 41.39 | 56.00 | -14.61 |
| 1.010 | Peak | 20.62 | 10.67 | 31.29 | 56.00 | -24.71 |
| 4.549 | Peak | 16.48 | 10.91 | 27.39 | 56.00 | -28.61 |
| 11.933 | Peak | 23.85 | 11.00 | 34.86 | 60.00 | -25.14 |
| 27.855 | Peak | 21.95 | 11.35 | 33.30 | 60.00 | -26.70 |

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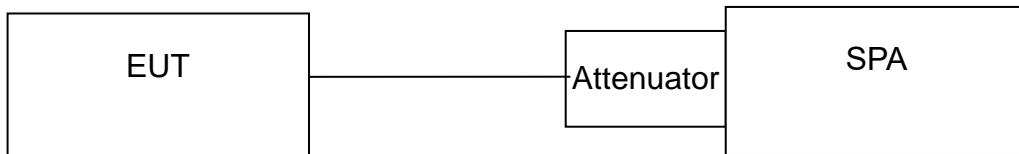
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



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8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5180 | 20.14 | 13.040 |

802.11n_HT20_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5180 | 20.21 | 13.060 |

802.11n_HT40_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5190 | 39.95 | 16.020 |

802.11ac_VHT80_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5210 | 82.08 | 19.140 |

802.11ac_VHT80_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5210 | 5247.90 | < 5250 |

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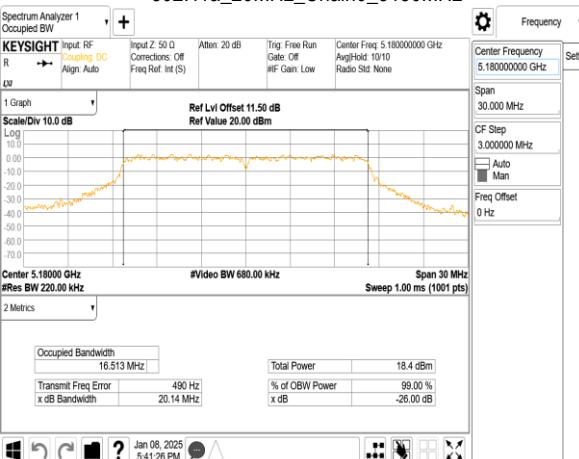
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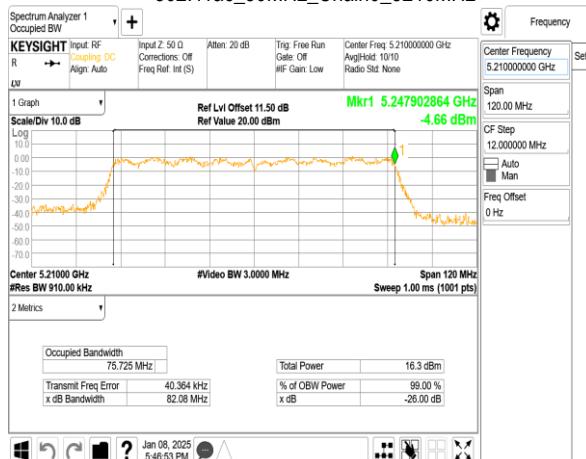
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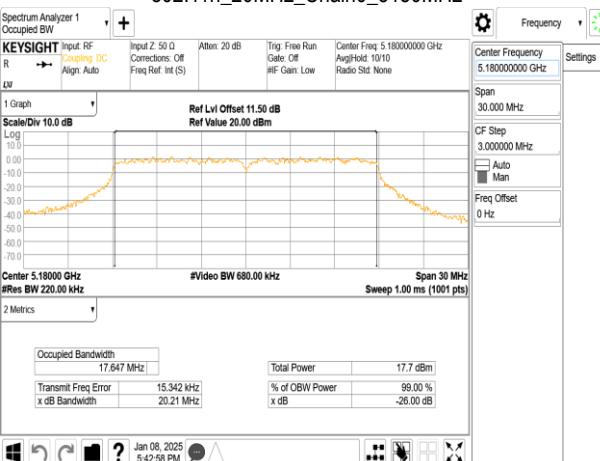
802.11a_20MHz_Chain0_5180MHz



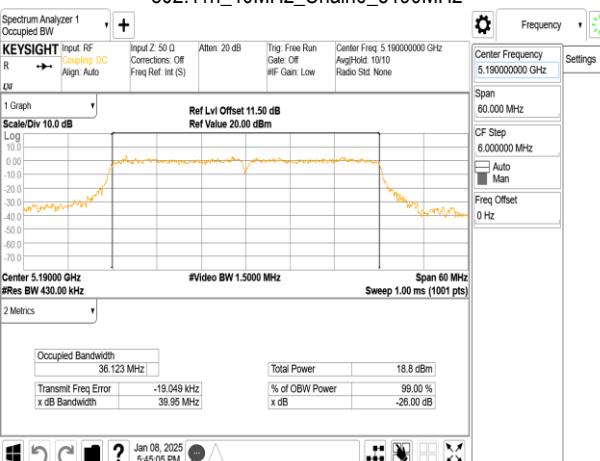
802.11ac_80MHz_Chain0_5210MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_40MHz_Chain0_5190MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

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9.1.2 FCC

| Band | EUT CATEGORY | e-CRF Title 47 §15.407 | | | |
|--|---|--|--|--|---|
| | | Conducted Output Power | EIRP | TPC | Antenna Directional Gain Requirements |
| U-NII-1 | Fixed point-to-point | 1 Watt(30dBm) | Not required | Not required | 23dBi |
| | Outdoor AP | 1 Watt(30dBm) | Elevation angle above 30 degrees 125mW (21dBm) | Not required | 6dBi |
| | Indoor AP | 1 Watt(30dBm) | Not required | Not required | 6dBi |
| | V Other | 250mW(23.98dBm) | Not required | Not required | 6dBi |
| U-NII-2A | Other | 250mW(23.98dBm) or 11dBm+10 log B | Not required | When EIRP >500mW At least 6dB below EIRP 1W (30dBm) | 6dBi |
| U-NII-2C | Other | 250mW(23.98dBm) or 11dBm+10 log B | Not required | | 6dBi |
| U-NII-3 | Other | 1 Watt(30dBm) | Not required | Not required | 6dBi |
| | Fixed point-to-point | 1 Watt(30dBm) | Not required | Not required | Not required |
| U-NII-4 | Indoor AP (a channel spans 5725~5850 and 5850~5895MHz) | Not required | 36dBm | Not required | Not required |
| | Indoor client (a channel spans 5725~5850 and 5850~5895MHz) | Not required | 30dBm | Not required | Not required |
| | Subordinate device | Not required | 36dBm | Not required | Not required |
| 1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth. | | | | | |

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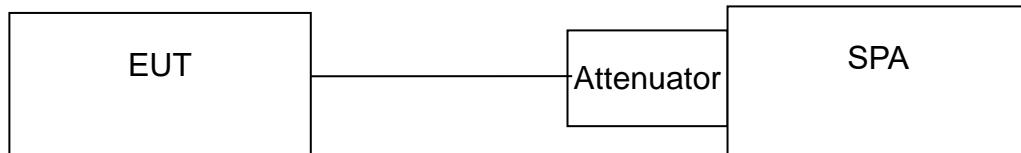
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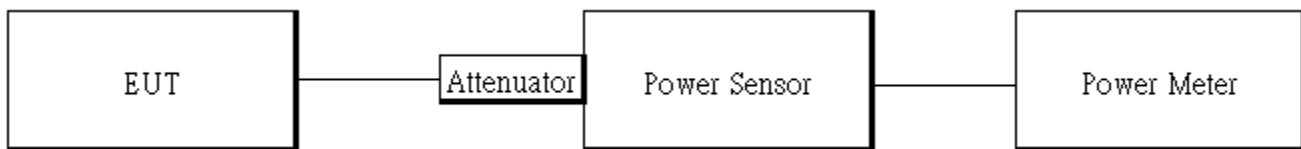
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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9.4 Duty Cycle Measurement Result

| Mode | Duty Cycle (%) =Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|-------------|-------------------------------------|--|-----------|-------------------------|
| 802.11a | 81.59 | 0.88 | 4.03 | 5.00 |
| 802.11n_20 | 56.91 | 2.45 | 4.38 | 5.00 |
| 802.11ac_20 | 54.83 | 2.61 | 5.01 | 6.00 |
| 802.11n_40 | 43.87 | 3.58 | 7.80 | 8.00 |
| 802.11ac_40 | 41.99 | 3.77 | 8.92 | 9.00 |
| 802.11ac_80 | 29.47 | 5.31 | 13.83 | 14.00 |

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802.11a_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

| CH | Frequency (MHz) | Data Rate | Power Setting | TOTAL POWER (mW) | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|----|-----------------|-----------|---------------|------------------|-------------------|----------------------|--------|
| 36 | 5180 | 6 | Default | 18.004 | 12.55 | 23.98 | PASS |

802.11n_HT20_Ch0

| CH | Frequency (MHz) | Data Rate | Power Setting | TOTAL POWER (mW) | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|----|-----------------|-----------|---------------|------------------|-------------------|----------------------|--------|
| 36 | 5180 | MCS0 | Default | 19.670 | 12.94 | 23.98 | PASS |

802.11ac_VHT20_Ch0

| CH | Frequency (MHz) | Data Rate | Power Setting | TOTAL POWER (mW) | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|----|-----------------|-----------|---------------|------------------|-------------------|----------------------|--------|
| 36 | 5180 | MCS0 | Default | 18.706 | 12.72 | 23.98 | PASS |

802.11n_HT40_Ch0

| CH | Frequency (MHz) | Data Rate | Power Setting | TOTAL POWER (mW) | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|----|-----------------|-----------|---------------|------------------|-------------------|----------------------|--------|
| 38 | 5190 | MCS0 | Default | 23.596 | 13.73 | 23.98 | PASS |

802.11ac_VHT40_Ch0

| CH | Frequency (MHz) | Data Rate | Power Setting | TOTAL POWER (mW) | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|----|-----------------|-----------|---------------|------------------|-------------------|----------------------|--------|
| 38 | 5190 | MCS0 | Default | 17.253 | 12.37 | 23.98 | PASS |

802.11ac_VHT80_Ch0

| CH | Frequency (MHz) | Data Rate | Power Setting | TOTAL POWER (mW) | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|----|-----------------|-----------|---------------|------------------|-------------------|----------------------|--------|
| 42 | 5210 | MCS0 | Default | 13.171 | 11.20 | 23.98 | PASS |

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

| Operation Bands | EUT CATEGORY | | e-CRF Title 47 §15.407 Power Spectral Density | Antenna Directional Gain Requirements |
|--|-----------------------------------|---------------|---|---------------------------------------|
| U-NII-1 | Outdoor Access Point (Master) | | 1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30° | 6dBi |
| | Indoor Access Point (Master) | | 17dBm / MHz | 6dBi |
| | Fixed point-to-point Access Ponit | | 17dBm / MHz | 23dBi |
| | V | Client device | 11dBm / MHz | 6dBi |
| U-NII-2A | All | | 11dBm / MHz | 6dBi |
| U-NII-2C | All | | 11dBm / MHz | 6dBi |
| U-NII-3 | All | | 30dBm / 500kHz | 6dBi |
| U-NII-4 | Indoor AP | | 20dBm / MHz e.i.r.p. | Not required |
| | Indoor client | | 14dBm / MHz e.i.r.p. | Not required |
| | Subordinate device | | 20dBm / MHz e.i.r.p. | Not required |
| If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna. | | | | |

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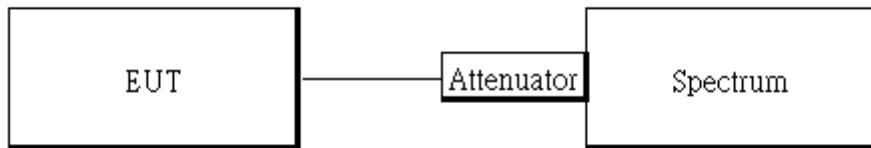
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10.2 Test Setup



10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/\text{RBW})$ to the measured result.

5. User the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle $\geq 98\%$: Record the max. reading.
6. (2)Duty cycle $< 98\%$: Record the max. reading and add $10 \log (1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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10.4 Measurement Result

| POWER DENSITY 802.11a MODE | | | | | |
|----------------------------|------------------------|------------------|-----------------------------|---------------|-------------|
| Frequency (MHz) | Ch0 meas PSD (dBm/MHz) | Duty Factor (dB) | Maximum Corr'd PSD(dBm/MHz) | Limit | Margin (dB) |
| 5180 | 1.224 | 0.88 | 2.10 | 11.00 dBm/MHz | -8.90 |

| POWER DENSITY 802.11n HT20 MODE | | | | | |
|---------------------------------|------------------------|------------------|-----------------------------|---------------|-------------|
| Frequency (MHz) | Ch0 meas PSD (dBm/MHz) | Duty Factor (dB) | Maximum Corr'd PSD(dBm/MHz) | Limit | Margin (dB) |
| 5180 | 0.914 | 2.45 | 3.36 | 11.00 dBm/MHz | -7.64 |

| POWER DENSITY 802.11n HT40 MODE | | | | | |
|---------------------------------|------------------------|------------------|-----------------------------|---------------|-------------|
| Frequency (MHz) | Ch0 meas PSD (dBm/MHz) | Duty Factor (dB) | Maximum Corr'd PSD(dBm/MHz) | Limit | Margin (dB) |
| 5190 | -3.312 | 3.58 | 0.27 | 11.00 dBm/MHz | -10.73 |

| POWER DENSITY 802.11ac VHT80 MODE | | | | | |
|-----------------------------------|------------------------|------------------|-----------------------------|---------------|-------------|
| Frequency (MHz) | Ch0 meas PSD (dBm/MHz) | Duty Factor (dB) | Maximum Corr'd PSD(dBm/MHz) | Limit | Margin (dB) |
| 5210 | -8.721 | 5.31 | -3.41 | 11.00 dBm/MHz | -14.41 |

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802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_80MHz_Chain0_5210MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

$EIRP = ((E^2 d)^{1/2}) / 30$, where E is the field strength in V/m , d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

11.1.1 5150~5850 MHz

| Applicable to | Operation Freq. (MHz) | EIRP | | Field Strength @ 3m (dB μ V/m) |
|-------------------------------------|-----------------------|--|------------------|------------------------------------|
| | | Freq. (MHz) | Limits (dBm/MHz) | |
| 15.407(b)(1) RSS-247 §6.2.1.2 | 5150~5250 | $f \leq 5150$ $f \geq 5350$ | PK: -27 | PK: 68.2 |
| 15.407(b)(2) RSS-247 §6.2.2.2 | 5250~5350 | | | |
| 15.407(b)(3) RSS-247 §6.2.3.2 | 5475~5725 | $f \leq 5470$ $f \geq 5725$ | | |
| 15.407(b)(4)(i) RSS-247 §6.2.4.3 | 5725~5850 | at 75 MHz or more above or below the band edge | PK:-27 | PK: 68.2 |
| | | increasing linearly from 75~25MHz above or below the band edge | PK:-27~10 | PK: 68.2~105.2 |
| | | increasing linearly from 25~5MHz above or below the band edge | PK:10~15.6 | PK: 105.2~110.8 |
| | | increasing linearly from 5~0 MHz above or below the band edge | PK: 15.6~27 | PK:110.8~122.2 |

11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency (MHz) | Field strength (microvolts/meter) | 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 |

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

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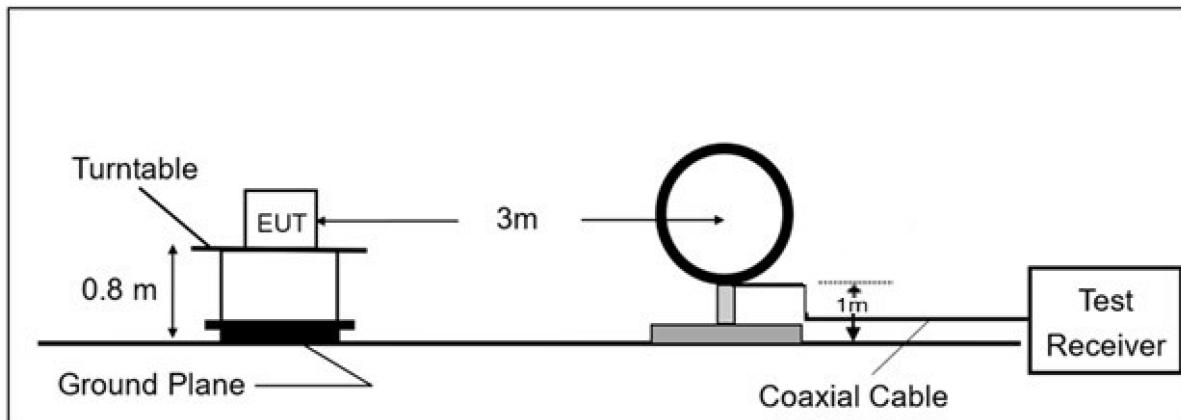
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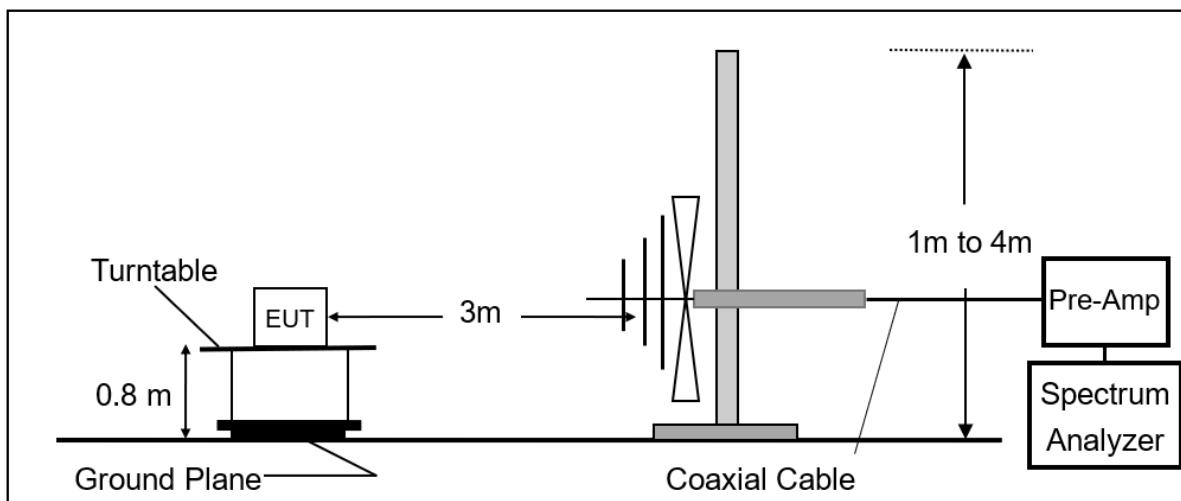
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11.2 Test Setup

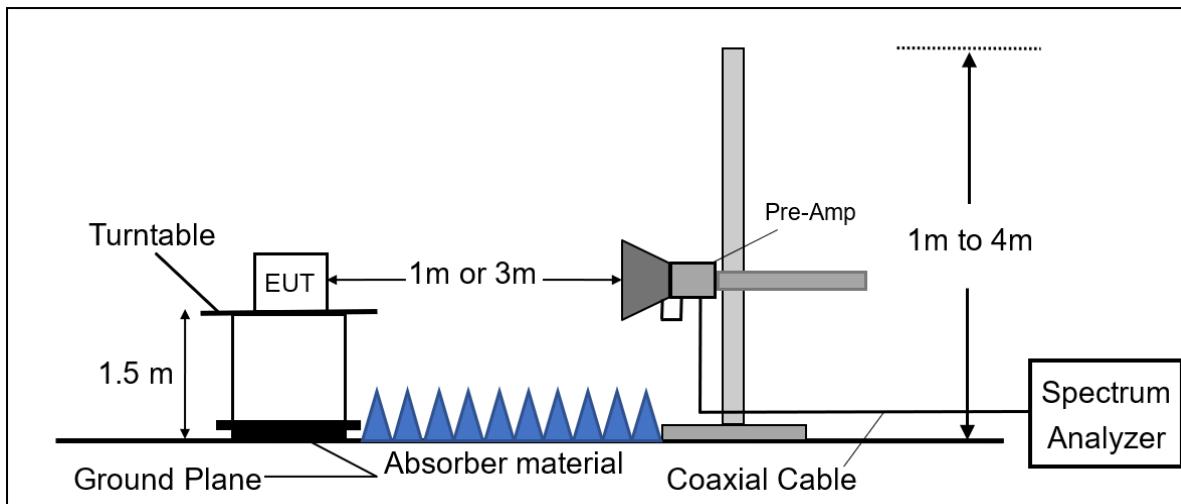
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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11.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in $dB\mu V/m$, which converts $20 \cdot \log(uV/m)$

Actual $FS(dB\mu V/m) = SPA \cdot Reading\ level(dB\mu V) + Factor(dB)$

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

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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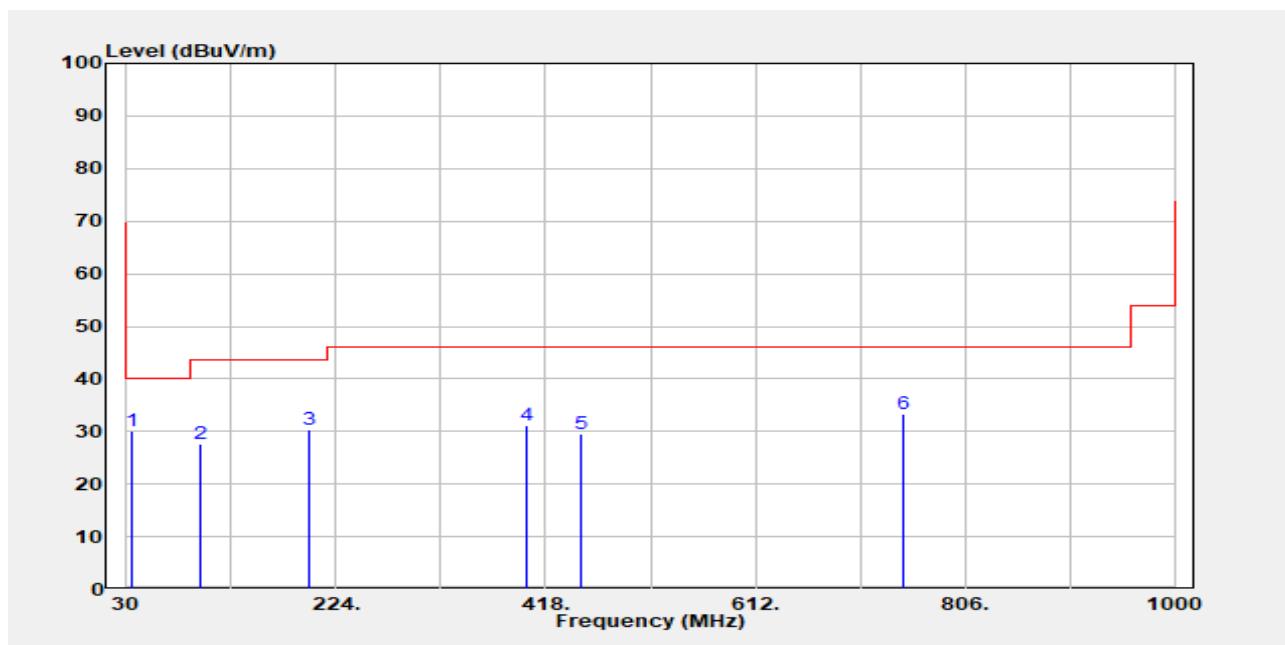
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11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

| | | | |
|----------------|-------------------|--------------|-------------|
| Report Number | :TERF2410003123E2 | Test Site | :SAC C |
| Operation Mode | :802.11a | Test Date | :2025-01-16 |
| Test Frequency | :5180 MHz | Temp./Humi. | :18.5°C/44% |
| Test Mode | :Tx | Antenna Pol. | :Vertical |
| EUT Pol | :E1 Plane | Engineer | :Alex Li |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 34.850 | QP | 42.80 | -12.66 | 30.14 | 40.00 | -9.86 |
| 98.870 | Peak | 44.52 | -16.92 | 27.59 | 43.50 | -15.91 |
| 199.750 | Peak | 45.40 | -15.13 | 30.27 | 43.50 | -13.23 |
| 399.570 | Peak | 39.61 | -8.34 | 31.27 | 46.00 | -14.73 |
| 450.010 | Peak | 36.19 | -6.73 | 29.46 | 46.00 | -16.54 |
| 749.740 | Peak | 34.41 | -1.02 | 33.40 | 46.00 | -12.60 |

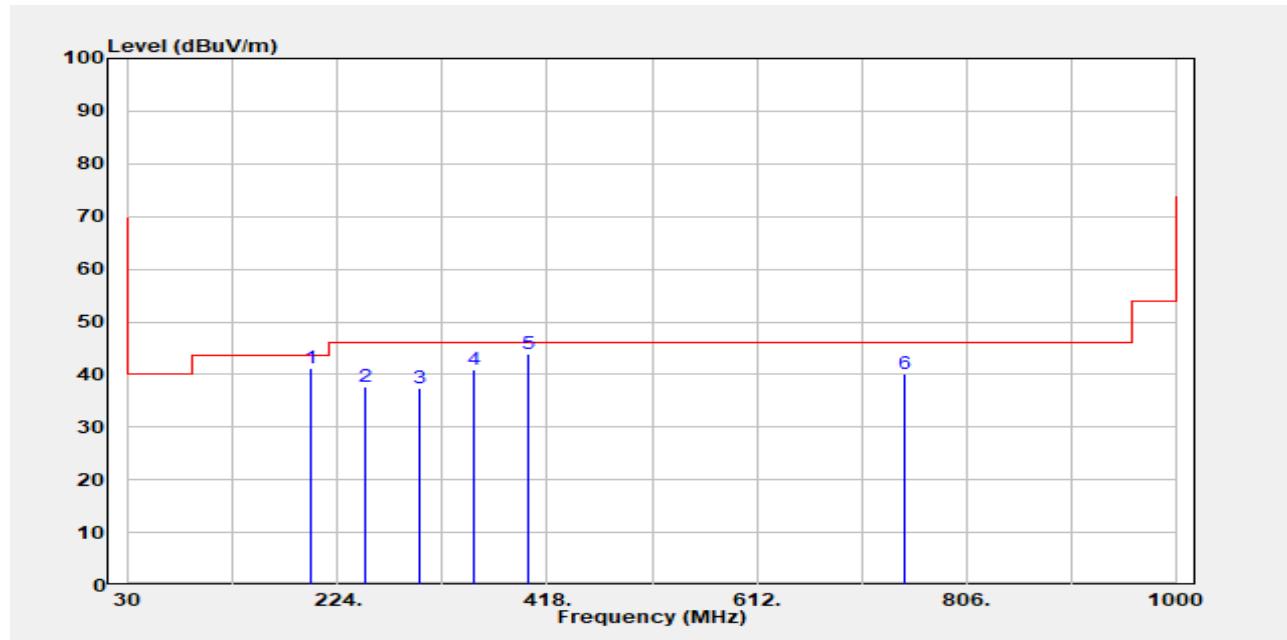
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Report Number :TERF2410003123E2
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Horizontal
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 199.750 | QP | 56.20 | -15.13 | 41.07 | 43.50 | -2.43 |
| 250.190 | Peak | 50.52 | -12.85 | 37.67 | 46.00 | -8.33 |
| 299.660 | Peak | 48.31 | -10.96 | 37.35 | 46.00 | -8.65 |
| 350.100 | QP | 50.70 | -9.84 | 40.86 | 46.00 | -5.14 |
| 399.570 | QP | 52.30 | -8.34 | 43.96 | 46.00 | -2.04 |
| 749.740 | QP | 41.10 | -1.02 | 40.08 | 46.00 | -5.92 |

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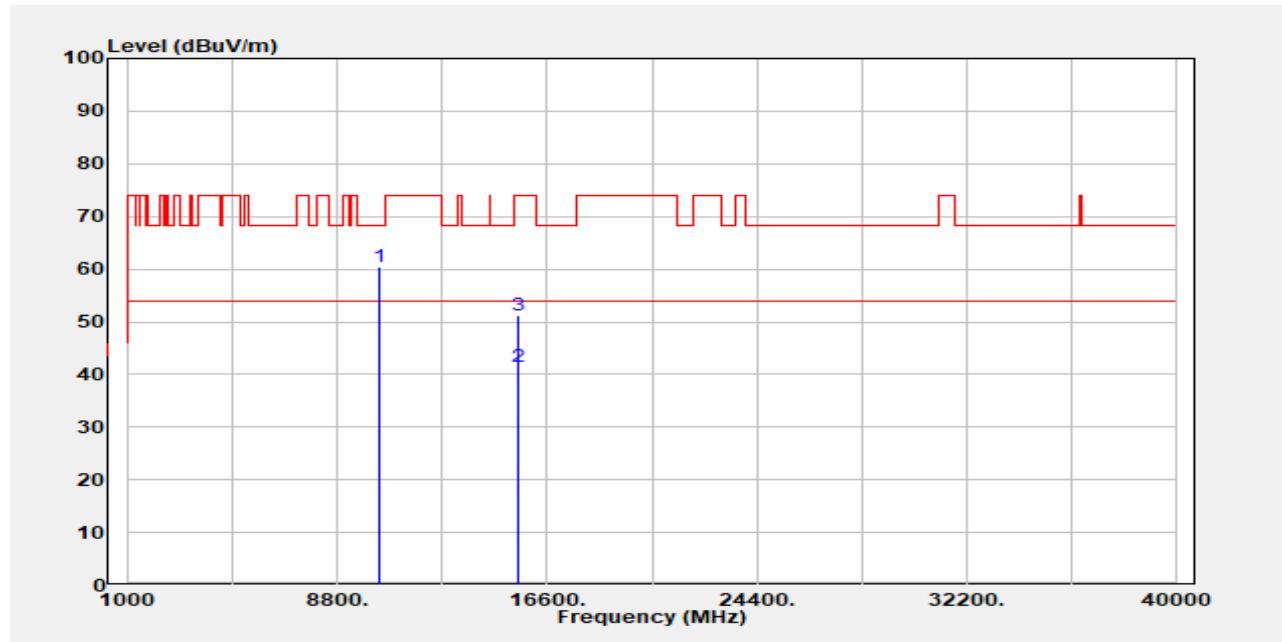
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Report Number :TERF2410003123E2
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Vertical
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.000 | Peak | 51.75 | 8.68 | 60.44 | 68.20 | -7.76 |
| 15540.000 | Average | 34.96 | 6.60 | 41.56 | 54.00 | -12.44 |
| 15540.000 | Peak | 44.50 | 6.60 | 51.10 | 74.00 | -22.90 |

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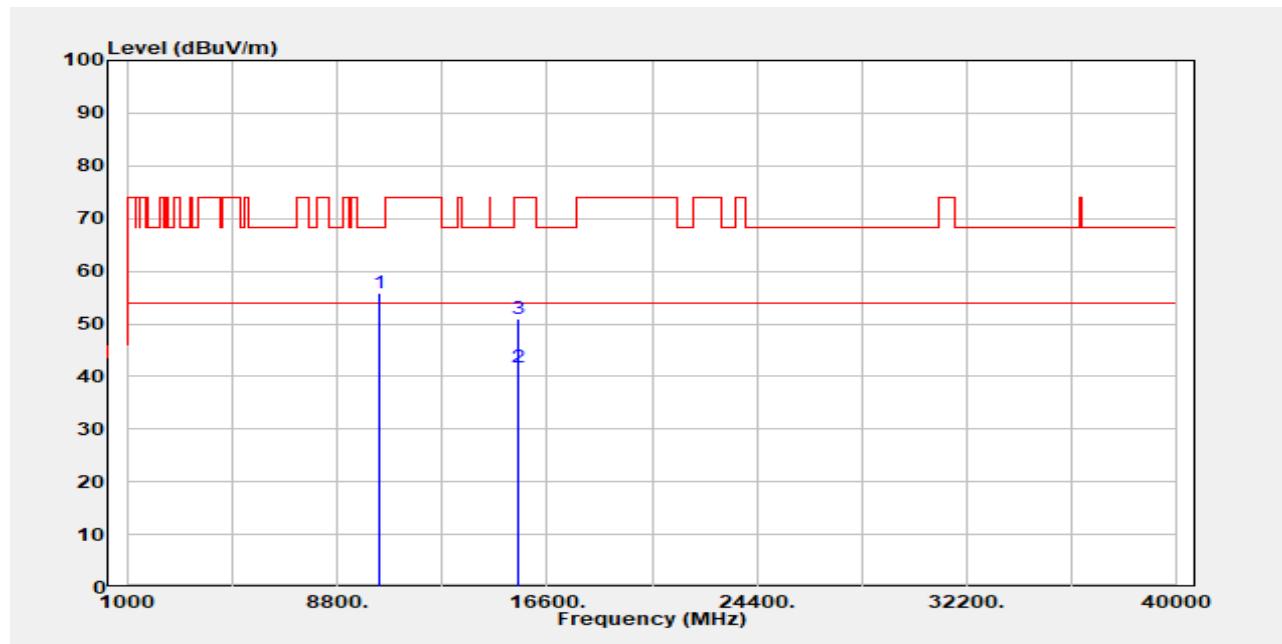
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Report Number :TERF2410003123E2
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Horizontal
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.000 | Peak | 47.18 | 8.68 | 55.86 | 68.20 | -12.34 |
| 15540.000 | Average | 35.03 | 6.60 | 41.64 | 54.00 | -12.36 |
| 15540.000 | Peak | 44.40 | 6.60 | 51.01 | 74.00 | -22.99 |

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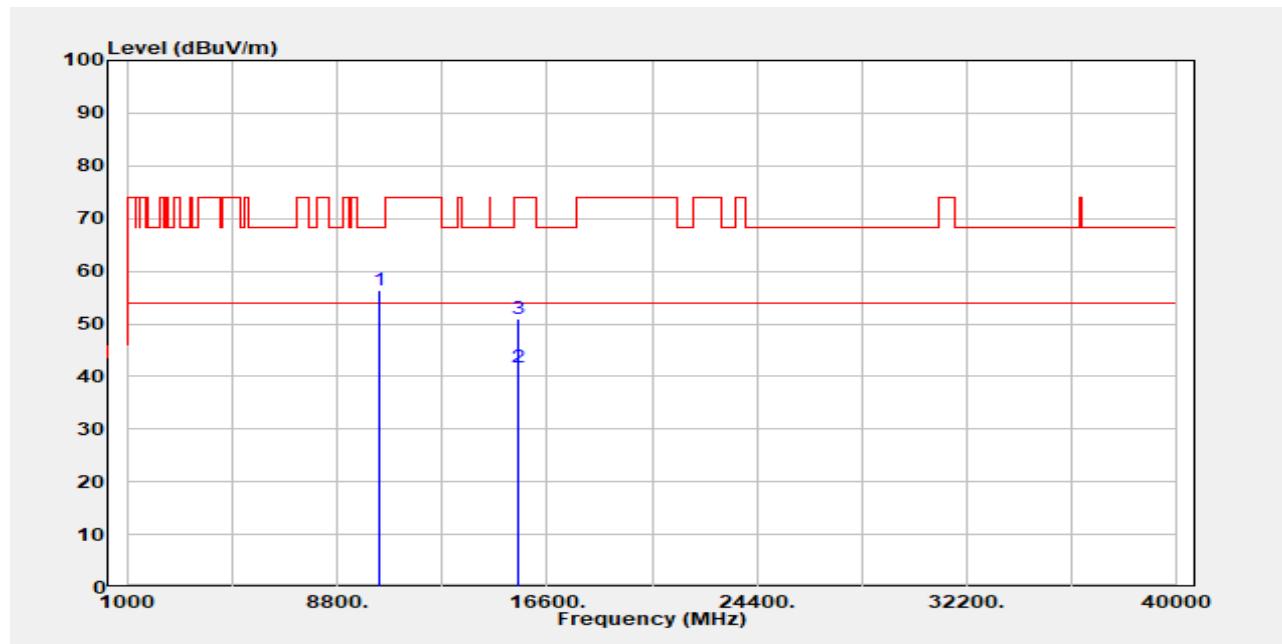
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Report Number :TERF2410003123E2
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Vertical
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.000 | Peak | 47.62 | 8.68 | 56.30 | 68.20 | -11.90 |
| 15540.000 | Average | 35.12 | 6.60 | 41.73 | 54.00 | -12.27 |
| 15540.000 | Peak | 44.35 | 6.60 | 50.95 | 74.00 | -23.05 |

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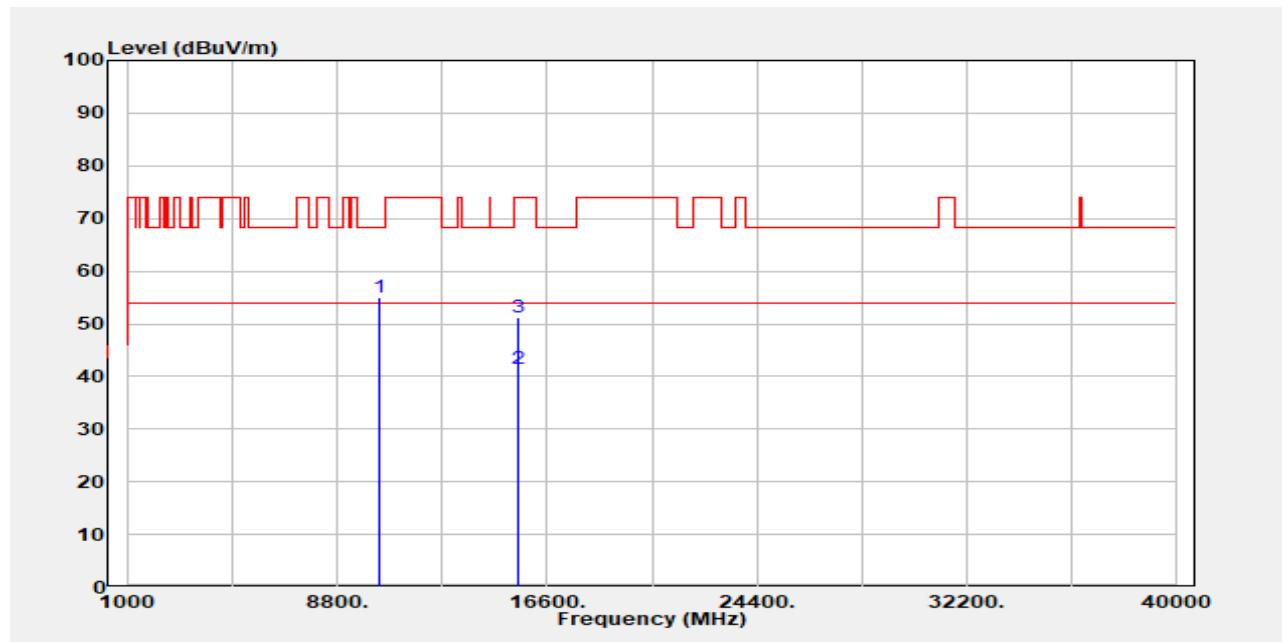
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Report Number :TERF2410003123E2
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Horizontal
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.000 | Peak | 46.25 | 8.68 | 54.93 | 68.20 | -13.27 |
| 15540.000 | Average | 34.90 | 6.60 | 41.50 | 54.00 | -12.50 |
| 15540.000 | Peak | 44.57 | 6.60 | 51.18 | 74.00 | -22.82 |

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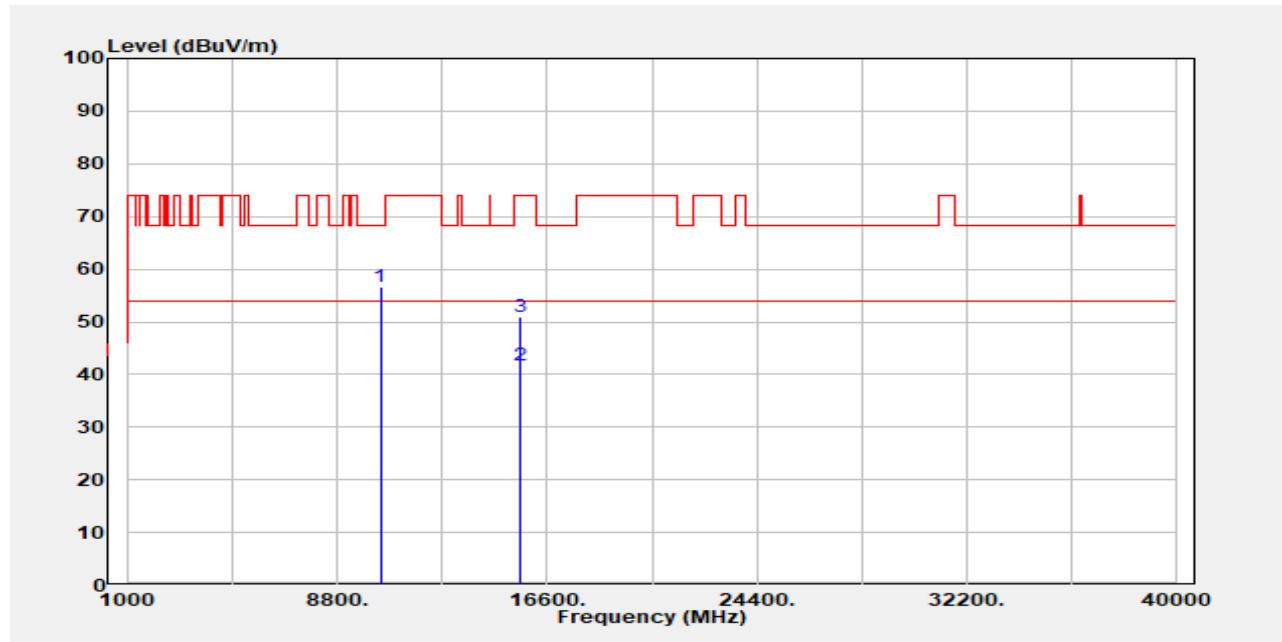
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Report Number :TERF2410003123E2
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Vertical
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10380.000 | Peak | 47.99 | 8.76 | 56.75 | 68.20 | -11.45 |
| 15570.000 | Average | 35.39 | 6.45 | 41.84 | 54.00 | -12.16 |
| 15570.000 | Peak | 44.43 | 6.45 | 50.88 | 74.00 | -23.12 |

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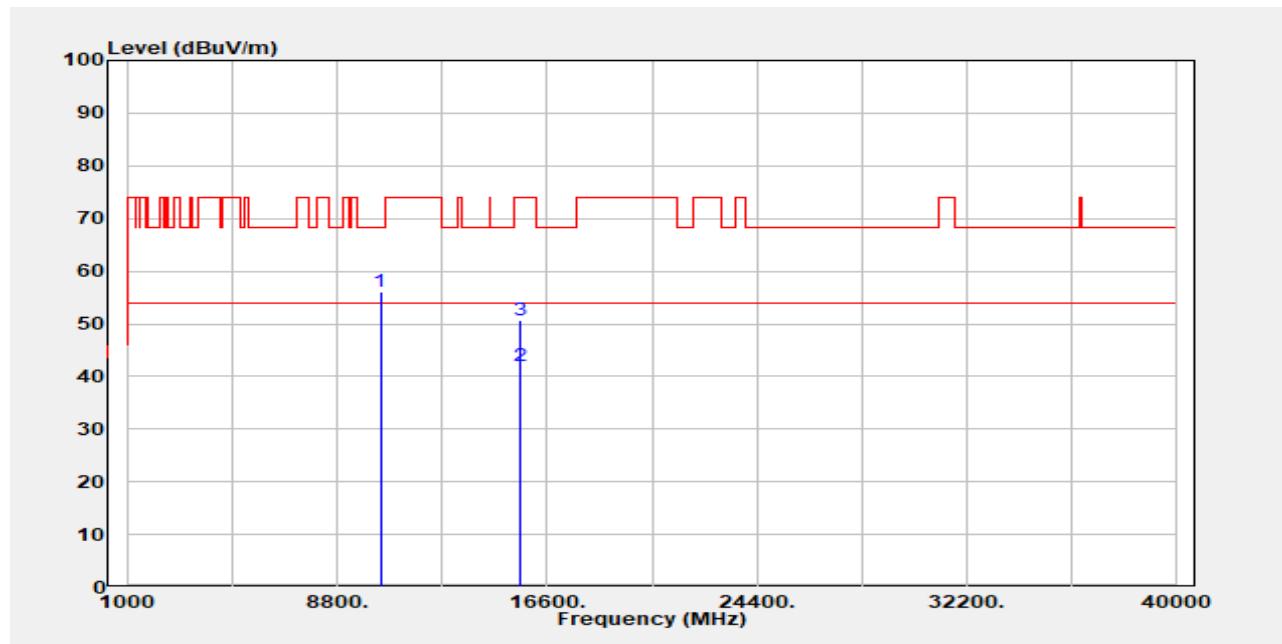
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Report Number :TERF2410003123E2
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Horizontal
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10380.000 | Peak | 47.33 | 8.76 | 56.09 | 68.20 | -12.11 |
| 15570.000 | Average | 35.65 | 6.45 | 42.10 | 54.00 | -11.90 |
| 15570.000 | Peak | 44.32 | 6.45 | 50.77 | 74.00 | -23.23 |

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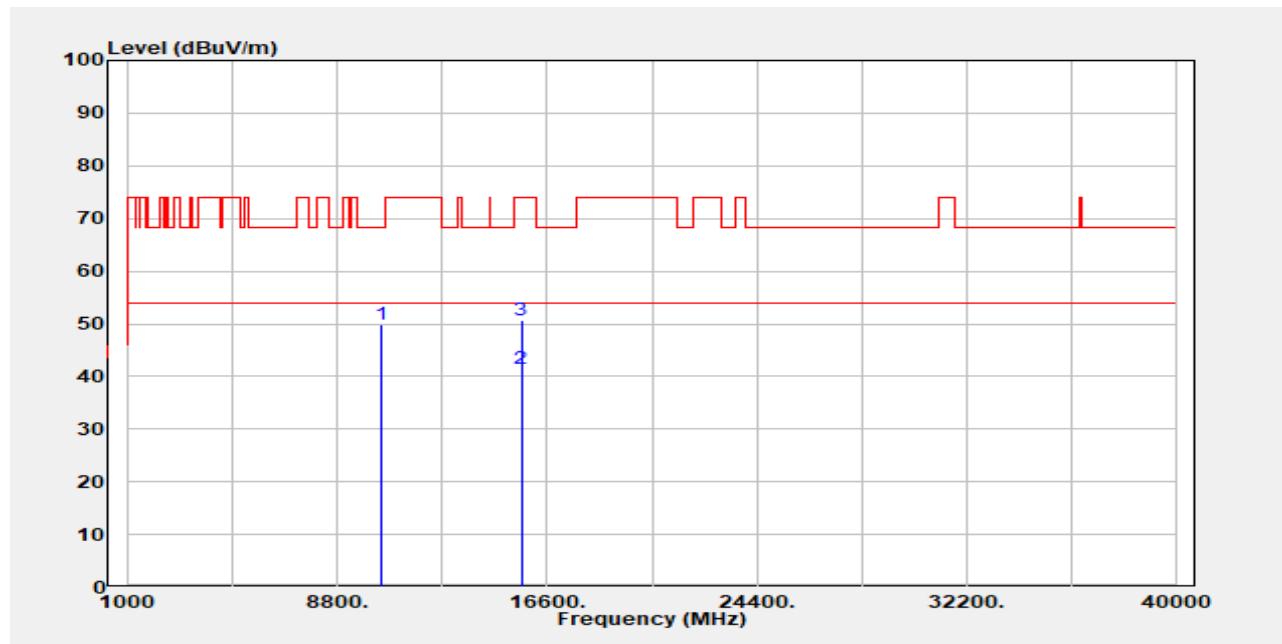
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Report Number :TERF2410003123E2
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Vertical
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10420.000 | Peak | 41.05 | 8.91 | 49.96 | 68.20 | -18.24 |
| 15630.000 | Average | 35.53 | 6.05 | 41.57 | 54.00 | -12.43 |
| 15630.000 | Peak | 44.72 | 6.05 | 50.77 | 74.00 | -23.23 |

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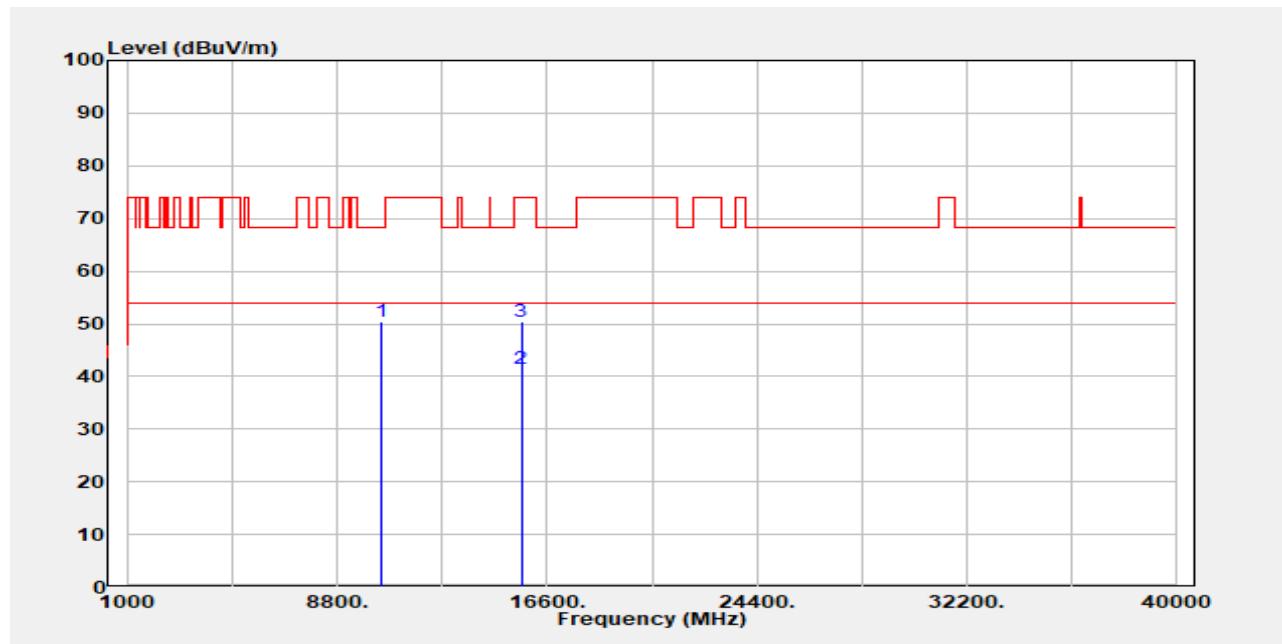
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Report Number :TERF2410003123E2
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-01-16
Temp./Humi. :18.5°C/44%
Antenna Pol. :Horizontal
Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10420.000 | Peak | 41.46 | 8.91 | 50.37 | 68.20 | -17.83 |
| 15630.000 | Average | 35.30 | 6.05 | 41.35 | 54.00 | -12.65 |
| 15630.000 | Peak | 44.45 | 6.05 | 50.49 | 74.00 | -23.51 |

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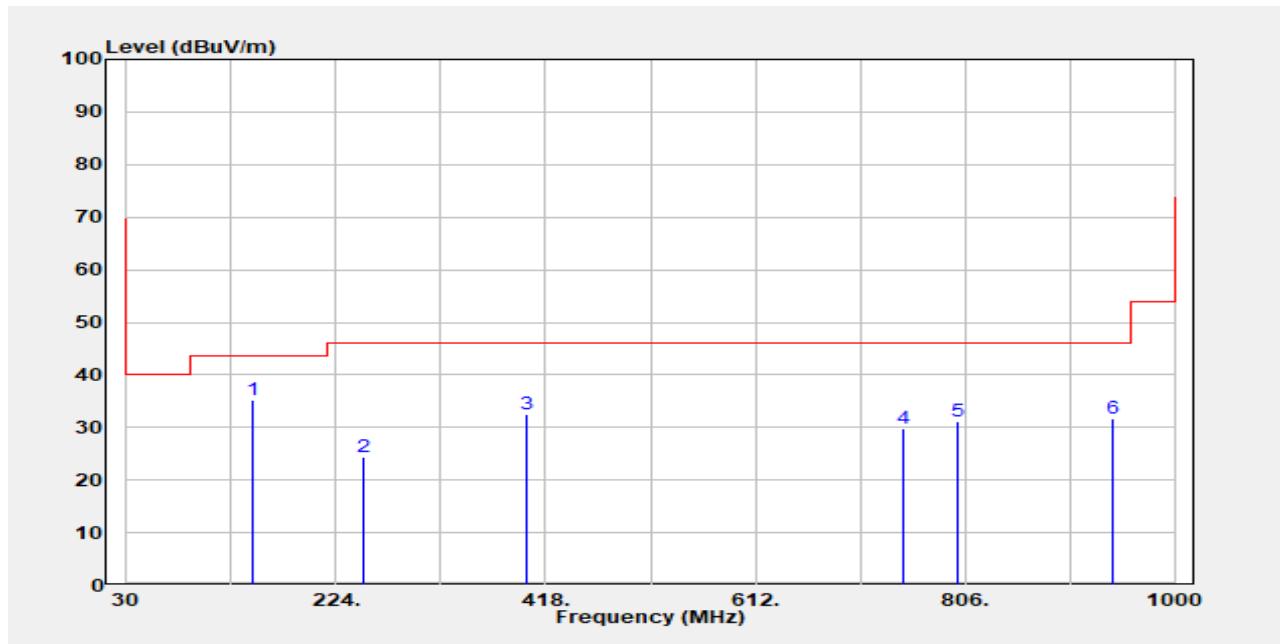
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Family model_NUSONO-L75

| | | | |
|----------------|-------------------|--------------|-------------|
| Report Number | :TERF2410003123E2 | Test Site | :SAC C |
| Operation Mode | :802.11a | Test Date | :2025-01-16 |
| Test Frequency | :5180 MHz | Temp./Humi. | :18.5°C/44% |
| Test Mode | :Tx | Antenna Pol. | :Vertical |
| EUT Pol | :E1 Plane | Engineer | :Alex Li |
| Note | :L75 | | |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 147.370 | Peak | 47.30 | -12.09 | 35.21 | 43.50 | -8.29 |
| 250.190 | Peak | 37.31 | -12.85 | 24.47 | 46.00 | -21.53 |
| 399.570 | Peak | 40.77 | -8.34 | 32.43 | 46.00 | -13.57 |
| 749.740 | Peak | 30.76 | -1.02 | 29.74 | 46.00 | -16.26 |
| 800.180 | Peak | 31.44 | -0.41 | 31.03 | 46.00 | -14.97 |
| 942.770 | Peak | 30.34 | 1.24 | 31.59 | 46.00 | -14.41 |

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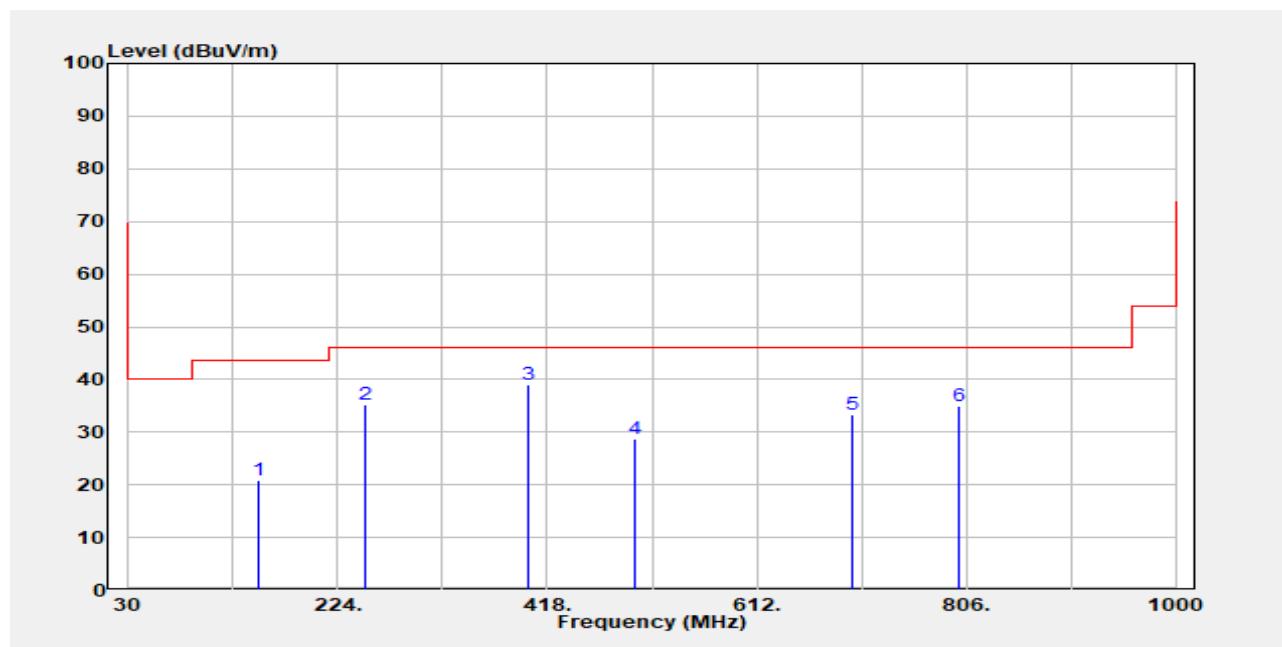
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Report Number :TERF2410003123E2
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane
 Note :L75

Test Site :SAC C
 Test Date :2025-01-16
 Temp./Humi. :18.5°C/44%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 150.280 | Peak | 32.75 | -12.00 | 20.75 | 43.50 | -22.75 |
| 250.190 | Peak | 48.04 | -12.85 | 35.19 | 46.00 | -10.81 |
| 399.570 | QP | 47.30 | -8.34 | 38.96 | 46.00 | -7.04 |
| 499.480 | Peak | 34.58 | -5.96 | 28.62 | 46.00 | -17.38 |
| 700.270 | Peak | 35.94 | -2.57 | 33.36 | 46.00 | -12.64 |
| 800.180 | Peak | 35.39 | -0.41 | 34.98 | 46.00 | -11.02 |

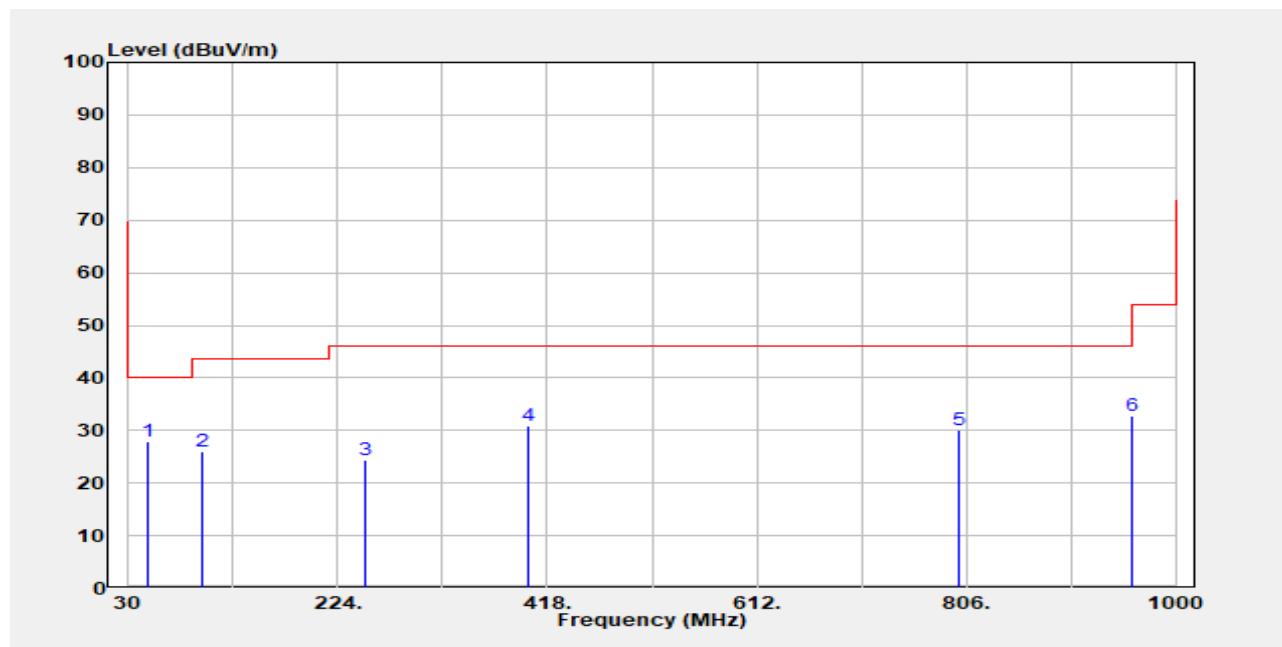
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Family model_NUSONO-P25

| | | | |
|----------------|-------------------|--------------|-------------|
| Report Number | :TERF2410003123E2 | Test Site | :SAC C |
| Operation Mode | :802.11a | Test Date | :2025-01-16 |
| Test Frequency | :5180 MHz | Temp./Humi. | :18.5°C/44% |
| Test Mode | :Tx | Antenna Pol. | :Vertical |
| EUT Pol | :E1 Plane | Engineer | :Alex Li |
| Note | :P25 | | |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 47.460 | Peak | 39.61 | -11.71 | 27.90 | 40.00 | -12.10 |
| 98.870 | Peak | 43.03 | -16.92 | 26.11 | 43.50 | -17.39 |
| 250.190 | Peak | 37.27 | -12.85 | 24.43 | 46.00 | -21.57 |
| 399.570 | Peak | 39.16 | -8.34 | 30.81 | 46.00 | -15.19 |
| 800.180 | Peak | 30.48 | -0.41 | 30.07 | 46.00 | -15.93 |
| 960.230 | Peak | 31.31 | 1.46 | 32.77 | 54.00 | -21.23 |

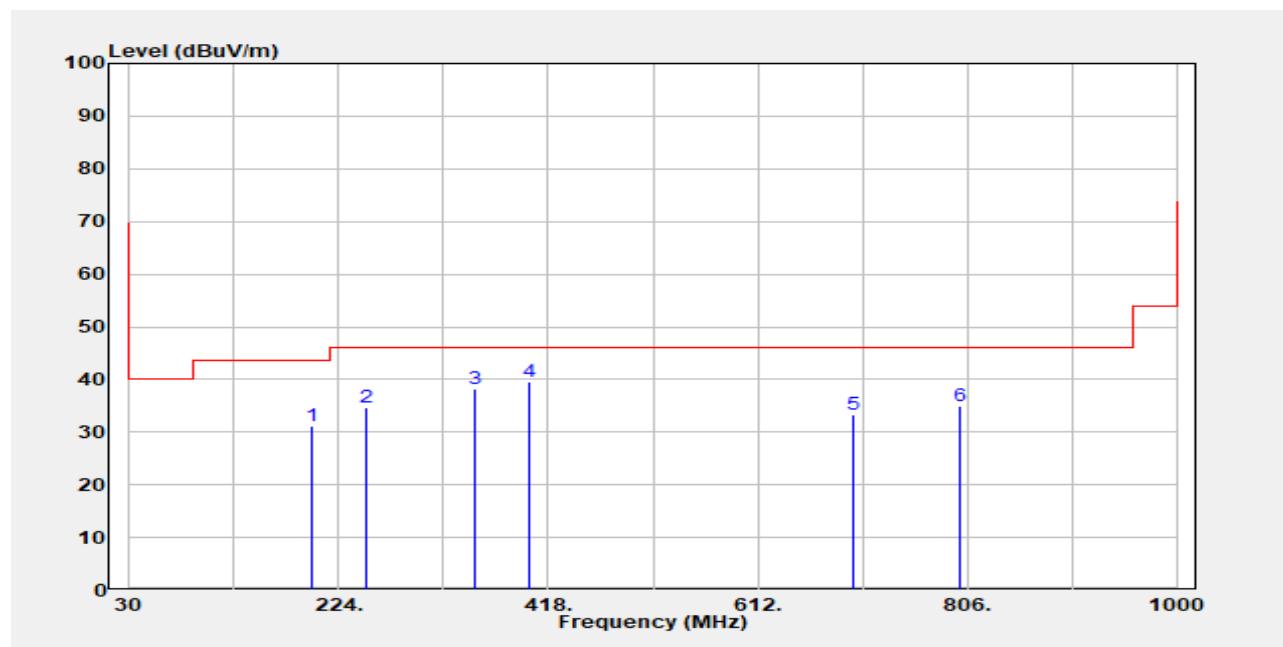
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Report Number :TERF2410003123E2
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane
 Note :P25

Test Site :SAC C
 Test Date :2025-01-16
 Temp./Humi. :18.5°C/44%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 199.750 | Peak | 46.25 | -15.13 | 31.12 | 43.50 | -12.38 |
| 250.190 | Peak | 47.61 | -12.85 | 34.76 | 46.00 | -11.24 |
| 350.100 | Peak | 48.09 | -9.84 | 38.25 | 46.00 | -7.75 |
| 399.570 | QP | 47.80 | -8.34 | 39.46 | 46.00 | -6.54 |
| 700.270 | Peak | 35.91 | -2.57 | 33.33 | 46.00 | -12.67 |
| 800.180 | Peak | 35.45 | -0.41 | 35.04 | 46.00 | -10.96 |

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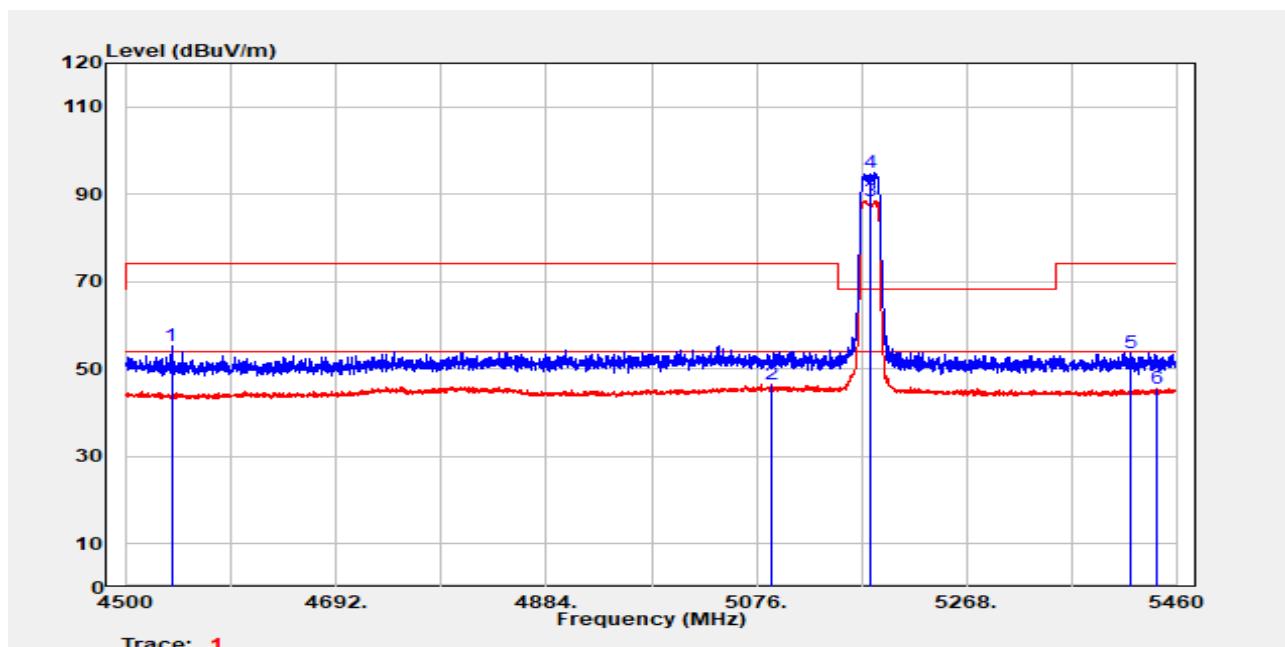
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11.6.2 Band edge falling to restricted band

| | | | |
|----------------|-------------------|--------------|-------------|
| Report Number | :TERF2410003123E2 | Test Site | :SAC C |
| Operation Mode | :802.11a | Test Date | :2025-01-15 |
| Test Frequency | :5180 MHz | Temp./Humi. | :20.9°C/47% |
| Test Mode | :Bandedge | Antenna Pol. | :Vertical |
| EUT Pol | :E1 Plane | Engineer | :Alex Li |



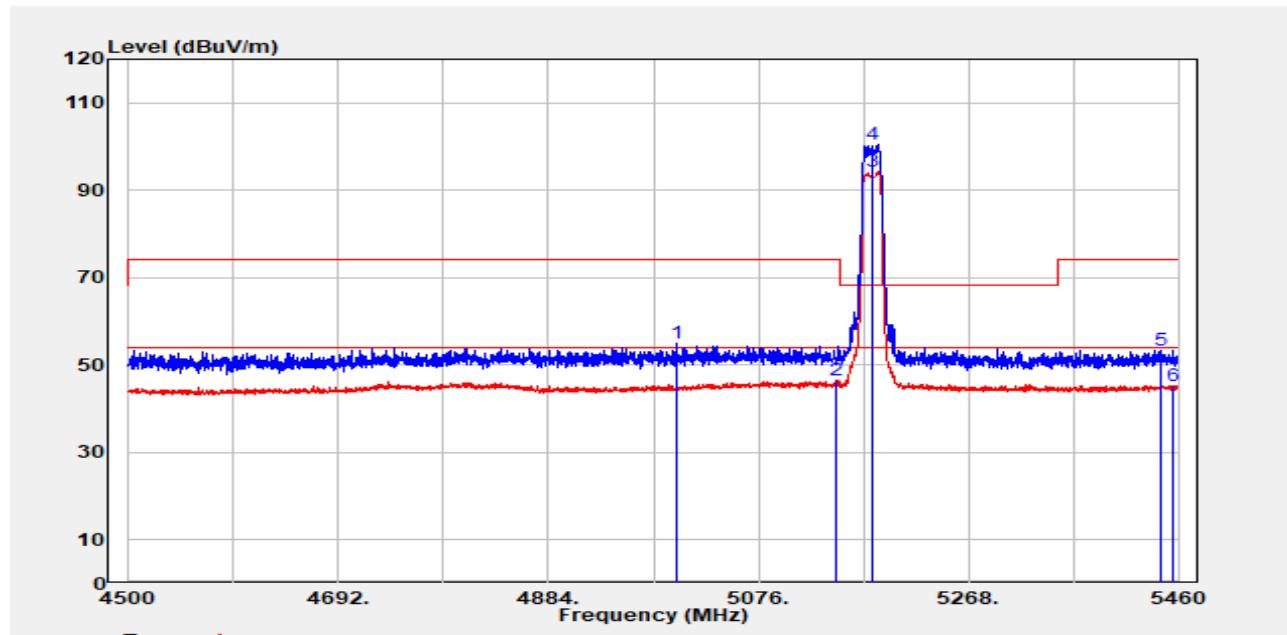
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4540.81 | Peak | 55.47 | -0.27 | 55.20 | 74.00 | -18.80 |
| 5089.35 | Average | 45.40 | 0.99 | 46.39 | 54.00 | -7.61 |
| 5180.00 | Average | 87.77 | 0.83 | 88.60 | - | - |
| 5180.00 | Peak | 94.27 | 0.83 | 95.10 | - | - |
| 5417.75 | Peak | 52.87 | 0.94 | 53.81 | 74.00 | -20.19 |
| 5442.48 | Average | 44.42 | 1.10 | 45.52 | 54.00 | -8.48 |

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Report Number :TERF2410003123E2 Test Site :SAC C
Operation Mode :802.11a Test Date :2025-01-15
Test Frequency :5180 MHz Temp./Humi. :20.9°C/47%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5001.73 | Peak | 54.29 | 0.69 | 54.98 | 74.00 | -19.02 |
| 5147.92 | Average | 45.63 | 0.83 | 46.46 | 54.00 | -7.54 |
| 5180.00 | Average | 93.41 | 0.83 | 94.24 | - | - |
| 5180.00 | Peak | 99.56 | 0.83 | 100.39 | - | - |
| 5444.88 | Peak | 52.37 | 1.12 | 53.49 | 74.00 | -20.51 |
| 5455.20 | Average | 44.15 | 1.17 | 45.32 | 54.00 | -8.68 |

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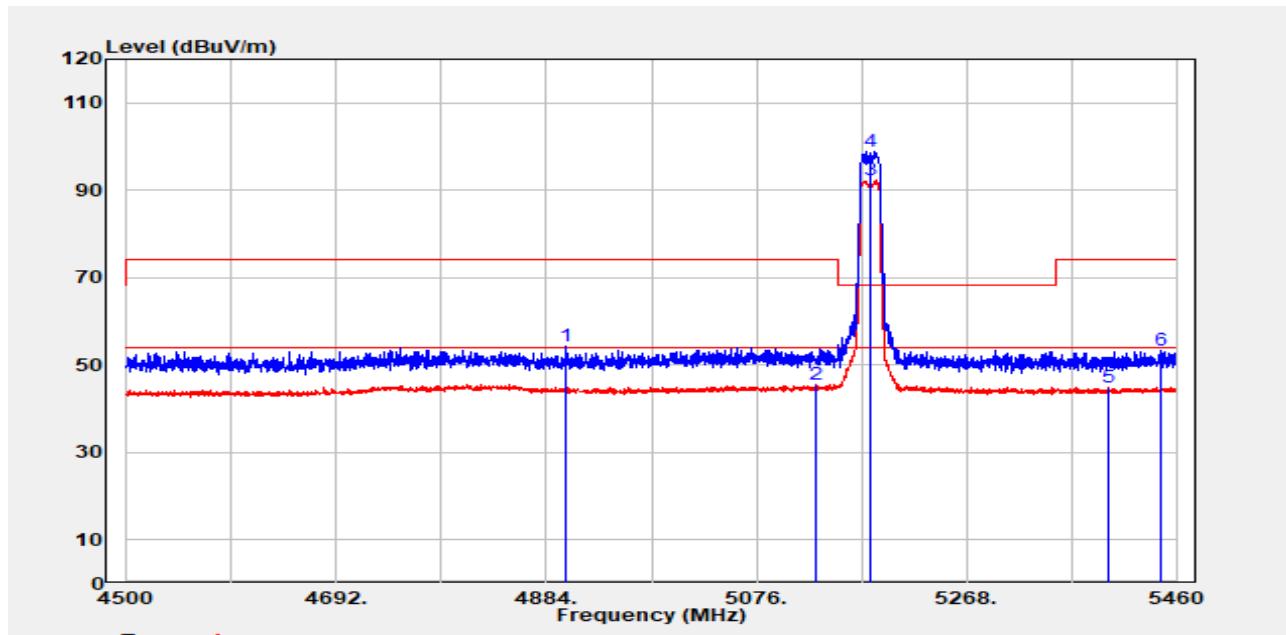
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Report Number :TERF2410003123E2 Test Site :SAC C
Operation Mode :802.11n20 Test Date :2025-01-16
Test Frequency :5180 MHz Temp./Humi. :17.5°C/45%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4902.10 | Peak | 53.98 | 0.32 | 54.30 | 74.00 | -19.70 |
| 5130.88 | Average | 44.74 | 0.90 | 45.64 | 54.00 | -8.36 |
| 5180.00 | Average | 91.45 | 0.83 | 92.28 | - | - |
| 5180.00 | Peak | 98.10 | 0.83 | 98.93 | - | - |
| 5398.31 | Average | 44.13 | 0.81 | 44.94 | 54.00 | -9.06 |
| 5446.80 | Peak | 52.09 | 1.13 | 53.22 | 74.00 | -20.78 |

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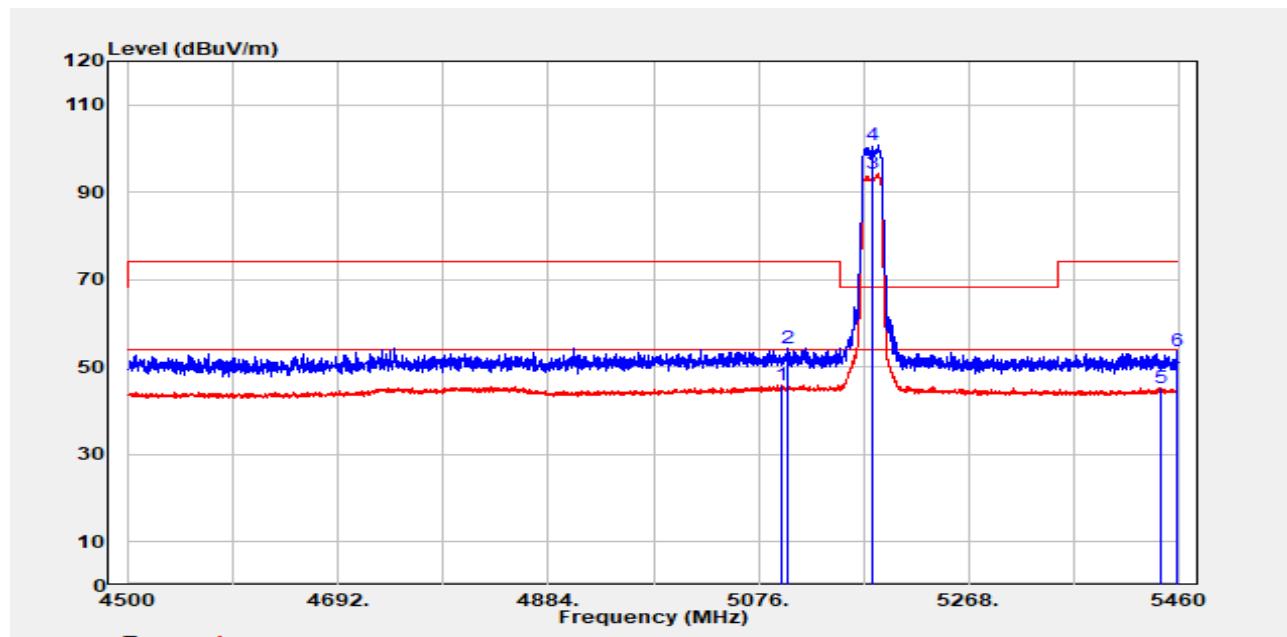
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Report Number :TERF2410003123E2 Test Site :SAC C
 Operation Mode :802.11n20 Test Date :2025-01-16
 Test Frequency :5180 MHz Temp./Humi. :17.5°C/45%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Alex Li



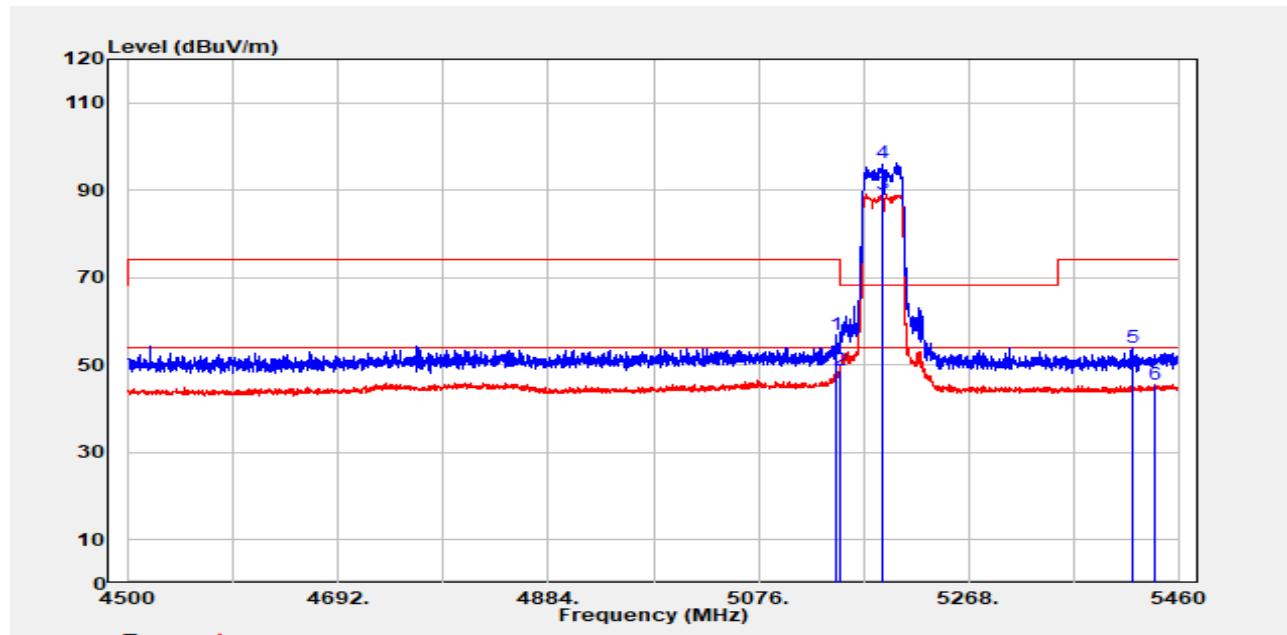
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5097.51 | Average | 44.74 | 1.01 | 45.75 | 54.00 | -8.25 |
| 5102.55 | Peak | 53.44 | 1.00 | 54.44 | 74.00 | -19.56 |
| 5180.00 | Average | 93.35 | 0.83 | 94.18 | - | - |
| 5180.00 | Peak | 100.14 | 0.83 | 100.97 | - | - |
| 5444.40 | Average | 43.99 | 1.12 | 45.11 | 54.00 | -8.89 |
| 5458.56 | Peak | 52.54 | 1.17 | 53.71 | 74.00 | -20.29 |

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Report Number :TERF2410003123E2 Test Site :SAC C
Operation Mode :802.11n40 Test Date :2025-01-16
Test Frequency :5190 MHz Temp./Humi. :17.5°C/45%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5147.68 | Peak | 56.04 | 0.83 | 56.87 | 74.00 | -17.13 |
| 5150.00 | Average | 47.90 | 0.83 | 48.73 | 54.00 | -5.27 |
| 5190.00 | Average | 88.15 | 0.84 | 88.99 | - | - |
| 5190.00 | Peak | 95.42 | 0.84 | 96.26 | - | - |
| 5418.95 | Peak | 53.03 | 0.94 | 53.97 | 74.00 | -20.03 |
| 5437.92 | Average | 44.43 | 1.07 | 45.50 | 54.00 | -8.50 |

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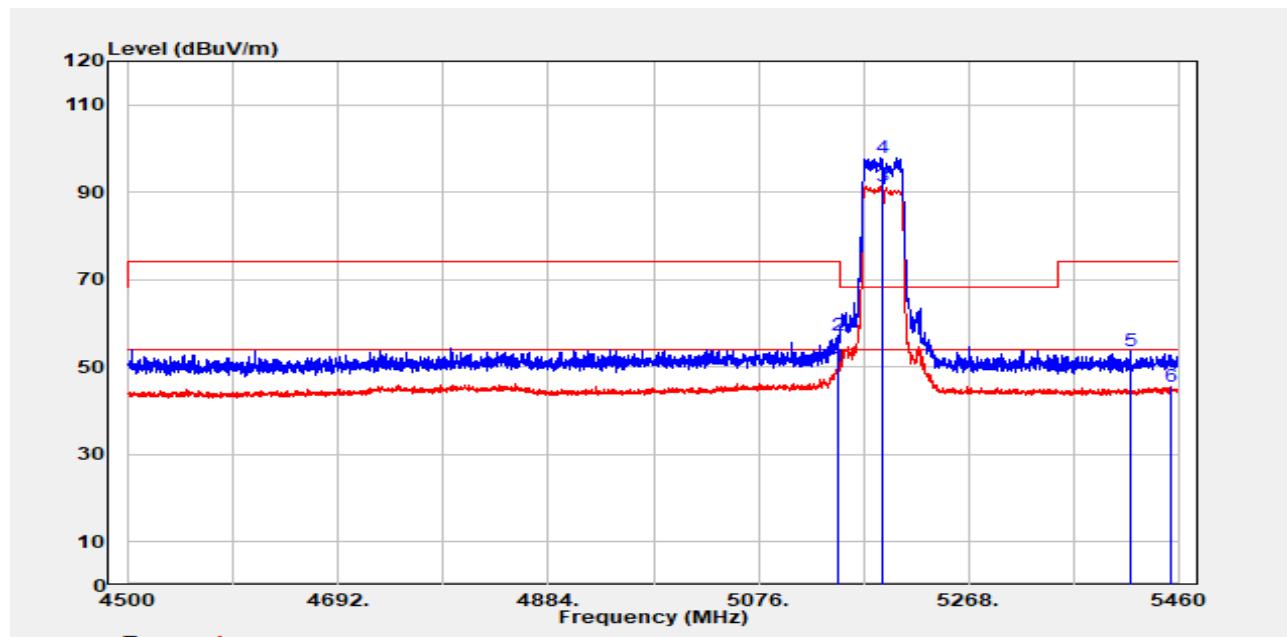
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Report Number :TERF2410003123E2 Test Site :SAC C
 Operation Mode :802.11n40 Test Date :2025-01-16
 Test Frequency :5190 MHz Temp./Humi. :17.5°C/45%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5149.36 | Average | 49.23 | 0.82 | 50.05 | 54.00 | -3.95 |
| 5149.36 | Peak | 56.43 | 0.82 | 57.25 | 74.00 | -16.75 |
| 5190.00 | Average | 90.58 | 0.84 | 91.42 | - | - |
| 5190.00 | Peak | 97.12 | 0.84 | 97.96 | - | - |
| 5416.31 | Peak | 52.74 | 0.92 | 53.66 | 74.00 | -20.34 |
| 5454.24 | Average | 44.39 | 1.17 | 45.56 | 54.00 | -8.44 |

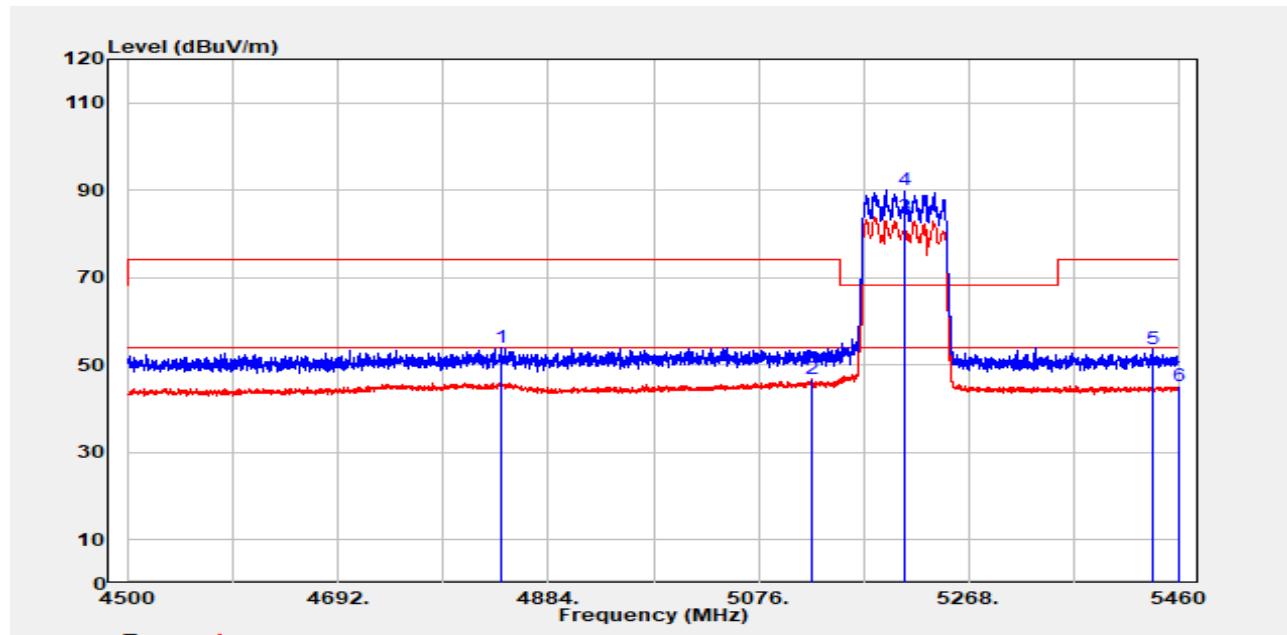
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Report Number :TERF2410003123E2 Test Site :SAC C
Operation Mode :802.11ac80 Test Date :2025-01-16
Test Frequency :5210 MHz Temp./Humi. :17.5°C/45%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Alex Li



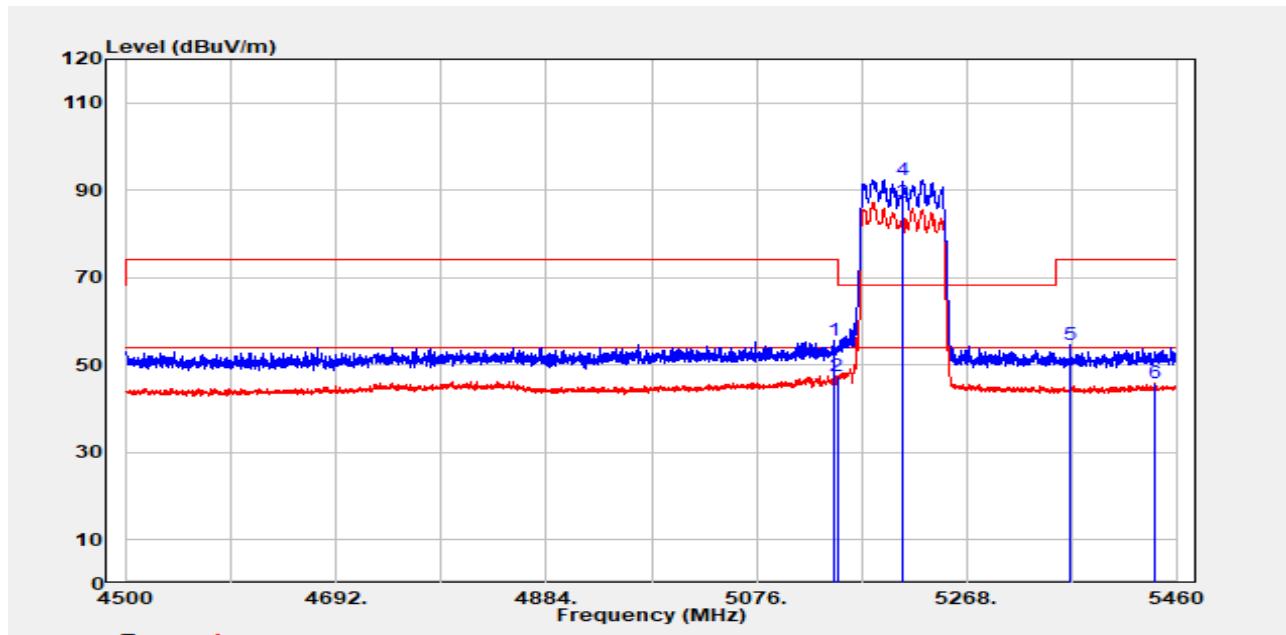
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4840.17 | Peak | 53.81 | 0.19 | 54.00 | 74.00 | -20.00 |
| 5124.88 | Average | 46.00 | 0.92 | 46.92 | 54.00 | -7.08 |
| 5210.00 | Average | 83.12 | 0.81 | 83.93 | - | - |
| 5210.00 | Peak | 89.18 | 0.81 | 89.99 | - | - |
| 5437.44 | Peak | 52.63 | 1.06 | 53.69 | 74.00 | -20.31 |
| 5460.00 | Average | 44.17 | 1.17 | 45.34 | 54.00 | -8.66 |

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Report Number :TERF2410003123E2 Test Site :SAC C
Operation Mode :802.11ac80 Test Date :2025-01-16
Test Frequency :5210 MHz Temp./Humi. :17.5°C/45%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5147.68 | Peak | 54.72 | 0.83 | 55.55 | 74.00 | -18.45 |
| 5149.84 | Average | 46.66 | 0.82 | 47.48 | 54.00 | -6.52 |
| 5210.00 | Average | 86.37 | 0.81 | 87.18 | - | - |
| 5210.00 | Peak | 91.70 | 0.81 | 92.51 | - | - |
| 5362.54 | Peak | 53.90 | 0.79 | 54.69 | 74.00 | -19.31 |
| 5440.08 | Average | 44.66 | 1.09 | 45.75 | 54.00 | -8.25 |

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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 the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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