

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, SC 29707, USA
Manufacturer: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, SC 29707, USA
Product Name: Vehicle Mount Computer
Brand Name: Honeywell
Model No.: VM1A-L0N
Model Difference: N/A
Report Number: TERF2212002706ER
FCC ID HD5-VM1AL0N
IC: 1693B-VM1AL0N
Date of EUT Received: December 14, 2022
Date of Test: December 26, 2022 ~ March 03, 2023
Issue Date: March 15, 2023

JJ Chen

Approved By

JJ Chen

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, ISSED RSS-247.

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 |
|------------------|----------|-------------|----------------|-------------|--------|
| TERF2212002706ER | 00 | Original. | March 15, 2023 | Tiffany Kao | |
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Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|------------------------------|-----------------------------|
| Product Name: | Vehicle Mount Computer |
| Brand Name: | Honeywell |
| Model No.: | VM1A-L0N |
| Model Difference: | N/A |
| Hardware Version: | VM1A-REF MAIN BOARD Rev:2.2 |
| Firmware Version: | 85.00.00-1171 |
| EUT Series No.: | 2231461110 |
| Power Supply: | 15V |
| Test Software (Name/Version) | FTM Tool /1.8 |

1.2 Modulation & Data Rate

| | |
|------------------|-----------------------------------|
| Modulation type: | 64QAM, 16QAM, QPSK, BPSK for OFDM |
| | 256QAM for OFDM in 802.11ac |
| Transition Rate: | 802.11 a: 6 - 54 Mbps |
| | 802.11 n_20MHz: up to 144.4 Mbps |
| | 802.11 n_40MHz: up to 300 Mbps |
| | 802.11 ac_20MHz: up to 173.4 Mbps |
| | 802.11 ac_40MHz: up to 400 Mbps |
| | 802.11 ac_80MHz: up to 866.6 Mbps |

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1.3 Antenna Designation

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Transmitter Chain | Peak Antenna Gain (dBi) | MIMO Antenna Gain (dBi) | Worst Antenna Gain |
|--------------------------|-----------|------------------|-------------|-------------------|-------------------------|-------------------------|--------------------|
| External di-pole antenna | LARSEN | R380500314 | 5150~5250 | Ch 0 & Ch 1 | 5 | 8.01 | V |
| | | | 5250~5350 | Ch 0 & Ch 1 | 5 | 8.01 | V |
| | | | 5470~5725 | Ch 0 & Ch 1 | 5 | 8.01 | V |
| | | | 5725~5850 | Ch 0 & Ch 1 | 5 | 8.01 | V |
| | LAIRD | WTS 2450 | 5150~5250 | Ch 0 & Ch 1 | 2.6 | 5.61 | |
| | | | 5250~5350 | Ch 0 & Ch 1 | 2.6 | 5.61 | |
| | | | 5470~5725 | Ch 0 & Ch 1 | 2.6 | 5.61 | |
| | | | 5725~5850 | Ch 0 & Ch 1 | 3.4 | 6.41 | |
| Internal Printed Antenna | Honeywell | VM1A_Int_Ant | 5150~5250 | Ch 0 | 4.7 | 7.56 | |
| | | | 5250~5350 | Ch 0 | 4.6 | 7.66 | |
| | | | 5470~5725 | Ch 0 | 4.8 | 7.86 | |
| | | | 5725~5850 | Ch 0 | 4.7 | 7.08 | |
| | | | 5150~5250 | Ch 1 | 4.4 | 7.56 | |
| | | | 5250~5350 | Ch 1 | 4.7 | 7.66 | |
| | | | 5470~5725 | Ch 1 | 4.9 | 7.86 | |
| | | | 5725~5850 | Ch 1 | 3.4 | 7.08 | |

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 FCC

| Wi-Fi | Frequency Range | Channels | Rated Power(Avg) (dBm) (Worst Case) | Modulation Technology |
|------------------------------|-----------------|----------|--|--------------------------|
| a/ n_HT/ ac_VHT 20M | 5180~5240 | 4 | 13.87 dBm | OFDM |
| | 5260~5320 | 4 | 20.87 dBm | OFDM |
| | 5500~5700 | 11 | 20.76 dBm | OFDM |
| | 5745-5825 | 5 | 20.92 dBm | OFDM |
| n_HT/ ac_VHT 40M | 5190~5230 | 2 | 13.58 dBm | OFDM |
| | 5270~5310 | 2 | 20.71 dBm | OFDM |
| | 5510~5670 | 5 | 20.72 dBm | OFDM |
| | 5755-5795 | 2 | 20.89 dBm | OFDM |
| ac_VHT 80M | 5210 | 1 | 11.31 dBm | OFDM |
| | 5290 | 1 | 8.66 dBm | OFDM |
| | 5530~5610 | 2 | 20.55 dBm | OFDM |
| | 5775 | 1 | 19.50 dBm | OFDM |

1.5 ISCED

| Wi-Fi | Frequency Range | Channels | EIRP/Avg | Rated Power(EIRP/Avg) (dBm) (Worst Case) | Modulation Technology |
|------------------------------|-----------------|----------|----------|---|--------------------------|
| a/ n_HT/ ac_VHT 20M | 5180~5240 | 4 | EIRP | 21.88 dBm | OFDM |
| | 5260~5320 | 4 | Avg | 20.87 dBm | OFDM |
| | 5500~5700 | 11 | Avg | 20.76 dBm | OFDM |
| | 5745-5825 | 5 | Avg | 20.92 dBm | OFDM |
| n_HT/ ac_VHT 40M | 5190~5230 | 2 | EIRP | 21.59 dBm | OFDM |
| | 5270~5310 | 2 | Avg | 20.71 dBm | OFDM |
| | 5510~5670 | 5 | Avg | 20.72 dBm | OFDM |
| | 5755-5795 | 2 | Avg | 20.89 dBm | OFDM |
| ac_VHT 80M | 5210 | 1 | EIRP | 19.32 dBm | OFDM |
| | 5290 | 1 | Avg | 8.66 dBm | OFDM |
| | 5530~5610 | 2 | Avg | 20.55 dBm | OFDM |
| | 5775 | 1 | Avg | 19.50 dBm | OFDM |

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 291074 D02 EMC Measurement v01

RSS-247 issue 2 Feb. 2017

RSS-Gen, issue 5 April, 2018

ANSI C63.10:2013

1.7 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designa- tion 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 | TW0027 | TW3702 |
| | | SAC 2 | | |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | | Conducted 6 | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| | | Conducted F | | |
| Conducted G | | | | |
| Note: Test site name is remarked on the equipment list in each section of this report as an indica- tion where measurements occurred in specific test site and address. | | | | |

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 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

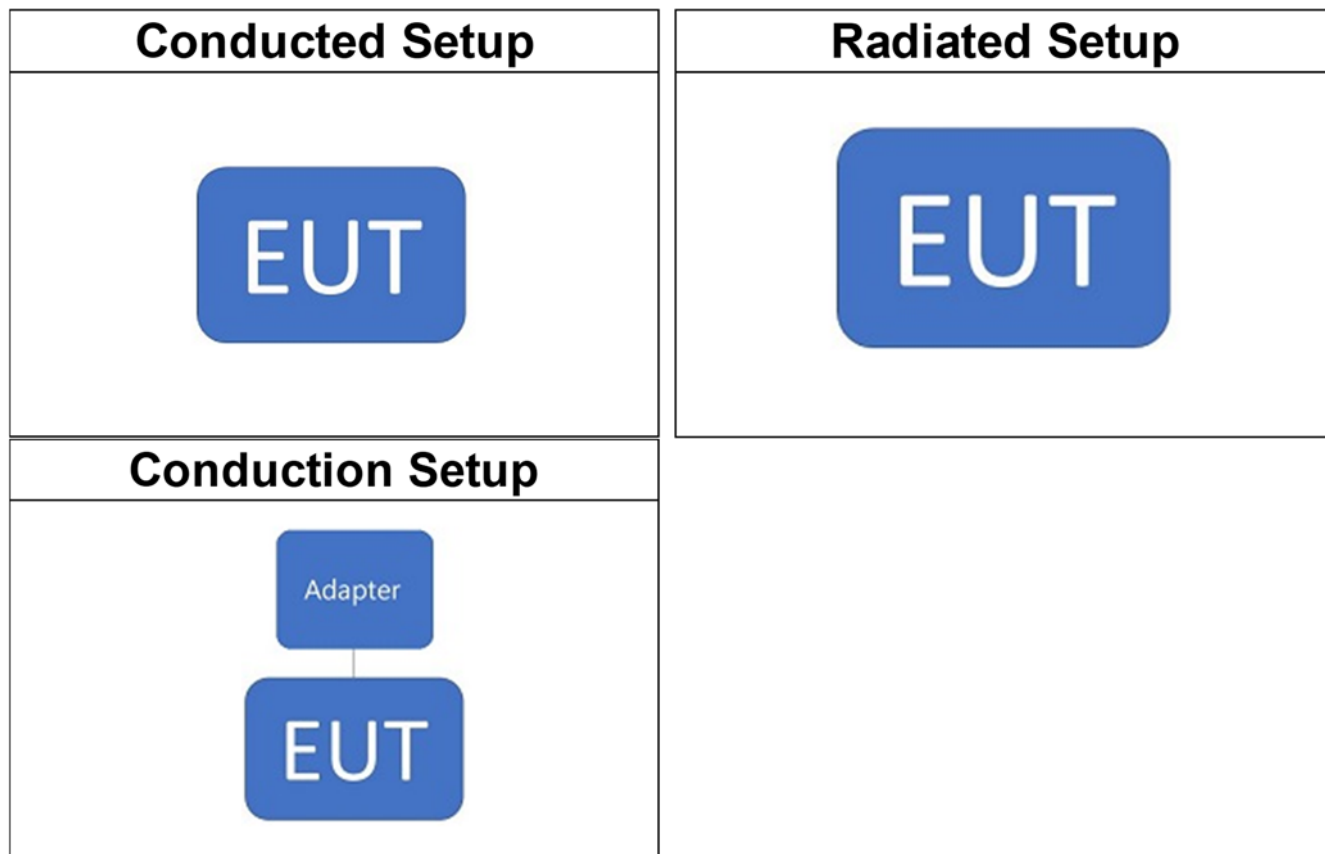
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction 1 | | | | | |
|--|--------------|------------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Adapter | GlobTek, Inc | GT-46600-6015-T3 | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULT

| FCC Rules | ISED Rules | Description Of Test | Result |
|----------------------------------|----------------------------------|--|-----------|
| §15.207 | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.407(e) | RSS-Gen §6.7 RSS-247 §6.2.4.1 | Emission Bandwidth | Compliant |
| §15.407(a) | RSS-247 §6.2.1~ 4 (1) | Maximum Conducted Output Power | Compliant |
| §15.407(a) | RSS-247 §6.2.1~ 4 (1) | Power Spectral Density | Compliant |
| §15.205 §15.209 §15.407(b) | RSS-247 §6.2.1~ 4 (2) | Undesirable Radiated Emissions | Compliant |
| §15.407(c) | RSS-247 §6.4 | Transmission in case of Absence of Information | Compliant |
| §15.203 | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

| 20 M | | 40 M | | 80 M | |
|------|------------|------|------------|------|------------|
| CH | Freq (MHz) | CH | Freq (MHz) | CH | Freq (MHz) |
| 36 | 5180 | 38 | 5190 | 42 | 5210 |
| 40 | 5200 | 46 | 5230 | | |
| 44 | 5220 | | | | |
| 48 | 5240 | | | | |

Operated band in 5250 MHz ~5350 MHz:

| 20 M | | 40 M | | 80 M | |
|------|------------|------|------------|------|------------|
| CH | Freq (MHz) | CH | Freq (MHz) | CH | Freq (MHz) |
| 52 | 5260 | 54 | 5270 | 58 | 5290 |
| 56 | 5280 | 62 | 5310 | | |
| 60 | 5300 | | | | |
| 64 | 5320 | | | | |

Operated band in 5470 MHz ~5725 MHz:

| 20 M | | 40 M | | 80 M | |
|------|------------|------|------------|------|------------|
| CH | Freq (MHz) | CH | Freq (MHz) | CH | Freq (MHz) |
| 100 | 5500 | 102 | 5510 | 106 | 5530 |
| 104 | 5520 | 110 | 5550 | 122 | 5610 |
| 108 | 5540 | 118 | 5590 | | |
| 112 | 5560 | 126 | 5630 | | |
| 116 | 5580 | 134 | 5670 | | |
| 120 | 5600 | | | | |
| 124 | 5620 | | | | |
| 128 | 5640 | | | | |
| 132 | 5660 | | | | |
| 136 | 5680 | | | | |
| 140 | 5700 | | | | |

Operated band in 5725 MHz ~5850 MHz:

| 20 M | | 40 M | | 80 M | |
|------|------------|------|------------|------|------------|
| CH | Freq (MHz) | CH | Freq (MHz) | CH | Freq (MHz) |
| 149 | 5745 | 151 | 5755 | 155 | 5775 |
| 153 | 5765 | 159 | 5795 | | |
| 157 | 5785 | | | | |
| 161 | 5805 | | | | |
| 165 | 5825 | | | | |

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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.

| Modulation | | Transmission Chain | | | | | | | | Single Transmission Spatial | Multiple Transmission Spatial |
|------------|-----------|--------------------|-----|---|-----|--|-----|--|-----|-----------------------------|-------------------------------|
| v | 802.11 a | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | 1TX | v 2TX |
| v | 802.11 n | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | 1TX | v 2TX |
| v | 802.11 ac | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | 1TX | v 2TX |
| | 802.11 ax | | Ch0 | | Ch1 | | Ch2 | | Ch3 | 1TX | 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 | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATARATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 | 2TX |
| | 5260~5320 | 52 to 64 | 52,60,64 | | | |
| | 5500~5700 | 100 to 140 | 100,116,140 | | | |
| | 5745~5825 | 149 to 165 | 149,157,165 | | | |
| 802.11n_HT20 | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | MCS0 | 2TX |
| | 5260~5320 | 52 to 64 | 52,60,64 | | | |
| | 5500~5700 | 100 to 140 | 100,116,140 | | | |
| | 5745~5825 | 149 to 165 | 149,157,165 | | | |
| 802.11n_HT40 | 5190~5230 | 38 to 46 | 38,46 | OFDM | MCS0 | 2TX |
| | 5270~5310 | 54 to 62 | 54,62 | | | |
| | 5510~5670 | 102 to 134 | 102,110,134 | | | |
| | 5755~5795 | 151 to 159 | 151,159 | | | |
| 802.11ac_VHT80 | 5210 | 42 | 42 | OFDM | MCS0 | 2TX |
| | 5290 | 58 | 58 | | | |
| | 5530~5610 | 106 to 122 | 106,122 | | | |
| | 5775 | 155 | 155 | | | |

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| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | | |
|--------------------------------------|----------------|-------------------|----------------|------------|-----------------|--------------|
| MODE | FREQUENCY BAND | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATARATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180~5240 | 36 to 48 | 44 | OFDM | 6 | 2TX |
| | 5260~5320 | 52 to 64 | 60 | | | |
| | 5500~5700 | 100 to 140 | 116 | | | |
| | 5745~5825 | 149 to 165 | 157 | | | |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | | |
| MODE | FREQUENCY BAND | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATARATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 | 2TX |
| | 5260~5320 | 52 to 64 | 52,60,64 | | | |
| | 5500~5700 | 100 to 140 | 100,116,140 | | | |
| | 5745~5825 | 149 to 165 | 149,157,165 | | | |
| 802.11n_HT20 | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | MCS0 | 2TX |
| | 5260~5320 | 52 to 64 | 52,60,64 | | | |
| | 5500~5700 | 100 to 140 | 100,116,140 | | | |
| | 5745~5825 | 149 to 165 | 149,157,165 | | | |
| 802.11n_HT40 | 5190~5230 | 38 to 46 | 38,46 | OFDM | MCS0 | 2TX |
| | 5270~5310 | 54 to 62 | 54,62 | | | |
| | 5510~5670 | 102 to 134 | 102,110,134 | | | |
| | 5755~5795 | 151 to 159 | 151,159 | | | |
| 802.11ac_HT80 | 5210 | 42 | 42 | OFDM | MCS0 | 2TX |
| | 5290 | 58 | 58 | | | |
| | 5530~5610 | 106 to 122 | 106,122 | | | |
| | 5775 | 155 | 155 | | | |

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 | +/- 2.32 dB |
| Output Power measurement | +/- 1 dB |
| Emission Bandwidth | +/- 1.53 Hz |
| Undesignable radiated emission measurement | +/- 1.68 dB |
| Peak Power Density | +/- 2.16 dB |
| Temperature | +/- 0.7 °C |
| Humidity | +/- 3 % |
| DC / AC Power Source | +/- 1 % |

| Radiated Spurious Emission Measurement Uncertainty | | | |
|--|-----|---------|-----------------|
| Polarization: Vertical | +/- | 2.8 dB | 9kHz~30MHz |
| | +/- | 4.82 dB | 30MHz - 1000MHz |
| | +/- | 4.37 dB | 1GHz - 18GHz |
| | +/- | 4.21 dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- | 2.8 dB | 9kHz~30MHz |
| | +/- | 4.54 dB | 30MHz - 1000MHz |
| | +/- | 4.37 dB | 1GHz - 18GHz |
| | +/- | 4.21 dB | 18GHz - 40GHz |

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 1 | | | | | |
|--|-----------------------|----------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 08/22/2022 | 08/21/2023 |
| LISN | SCHWARZBECK | NSLK 8127 | 01040 | 08/23/2022 | 08/22/2023 |
| Coaxial Cables | EMC Instruments Corp. | EMCCFD300-BM-BM-3000 | 161207 | 06/22/2022 | 06/21/2023 |
| Test Software | audix | e3 | Ver. 9 210322 | N.C.R | N.C.R |

6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted 1 | | | | | |
|---|---------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY59071571 | 05/19/2022 | 05/18/2023 |
| Test Software | SGS | Radio Test Software | Ver. 21 | N.C.R | N.C.R |
| Power Meter | Anritsu | ML2496A | 1242004 | 10/26/2022 | 10/25/2023 |
| Power Sensor | Anritsu | MA2411B | 1207365 | 10/26/2022 | 10/25/2023 |
| Power Sensor | Anritsu | MA2411B | 1207368 | 10/26/2022 | 10/25/2023 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 12/13/2022 | 12/12/2023 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 12/13/2022 | 12/12/2023 |

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6.3 Radiated Measurement

| Radiated Emission Test Site: SAC 1 | | | | | |
|------------------------------------|-----------------|--------------------|------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Horn Antenna | SCHWARZBECK | BBHA9120D | D803 | 09/27/2022 | 09/26/2023 |
| Bi-log Antenna | TESEO | CBL 6112D | 35242 & AT-N0555 | 12/27/2022 | 12/26/2023 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 184 | 12/30/2022 | 12/29/2023 |
| Site Cal | SGS | SAC 1 | N/A | 01/01/2023 | 12/31/2023 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 10/05/2022 | 10/04/2023 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 10/28/2022 | 10/27/2023 |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 08/22/2022 | 08/21/2023 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 10/27/2022 | 10/26/2023 |
| Pre-Amplifier | HP | 8449B | 3008A01973 | 12/13/2022 | 12/12/2023 |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 12/13/2022 | 12/12/2023 |
| Bandreject Filter 5150-5350 | Micro-Tronics | BRM50703 | 1 | 12/13/2022 | 12/12/2023 |
| Bandreject Filter 5470-5725 | Micro-Tronics | BRM50704 | 1 | 12/13/2022 | 12/12/2023 |
| Bandreject Filter 5725-5875 | Micro-Tronics | BRM50705 | 1 | 12/13/2022 | 12/12/2023 |
| 8.6GHz High Pass Filter | Titan | T04H86002600060S01 | 210619-2-7 | 12/13/2022 | 12/12/2023 |
| Coaxial Cable | Huber Suhner | succoflex 102 | MY2622/2 | 12/13/2022 | 12/12/2023 |
| Coaxial Cable | Huber Suhner | succoflex 104A | 800086/4a | 12/13/2022 | 12/12/2023 |
| Coaxial Cable | Huber Suhner | EMC 104-SM-SM-2000 | 160123 | 12/13/2022 | 12/12/2023 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2630/2 | 12/13/2022 | 12/12/2023 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY22962/2 | 12/13/2022 | 12/12/2023 |
| Test Software | Audix | e3 | Ver. 9.210322 | 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 |

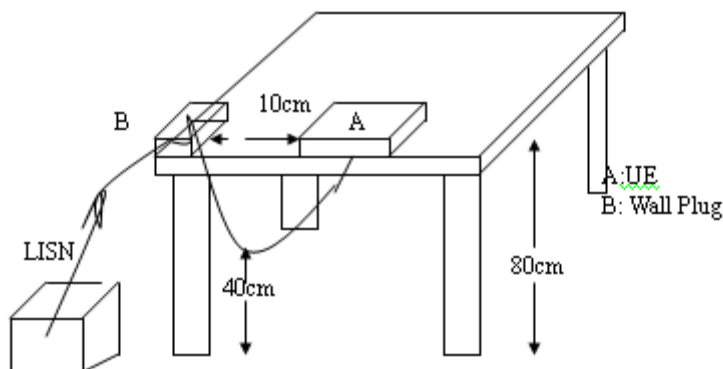
Note

- 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 rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP



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.

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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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AC POWER LINE CONDUCTED EMISSION TEST DATA

Cradle (S/N: VM1DG223800172)

Report Number :TERF2212002706ER

Test Site :Conduction 1

Test Mode :5G

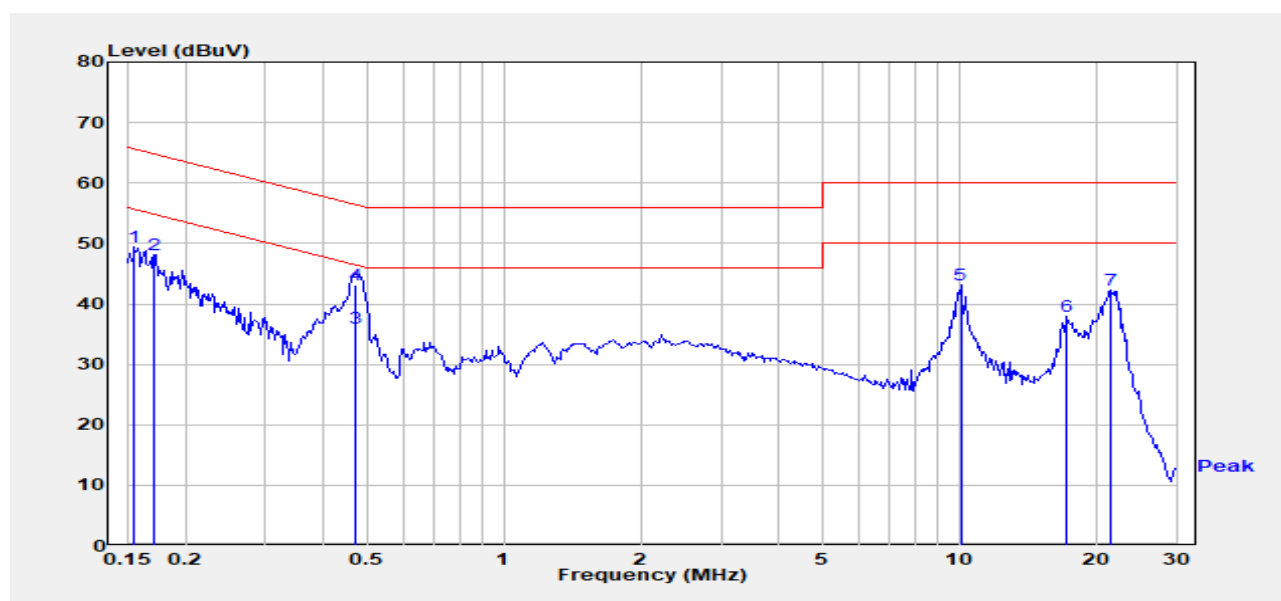
Test Date :2023-03-03

Power :120V/60Hz

Temp./Humi. :23.8/52

Probe :L

Engineer :GN Lin



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV | Limit dBμV | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.155 | Peak | 49.47 | 0.05 | 49.52 | 65.74 | -16.22 |
| 0.171 | Peak | 48.06 | 0.05 | 48.11 | 64.92 | -16.80 |
| 0.475 | Average | 35.95 | 0.05 | 36.00 | 46.43 | -10.43 |
| 0.475 | QP | 43.02 | 0.05 | 43.07 | 56.43 | -13.36 |
| 10.083 | Peak | 42.71 | 0.34 | 43.05 | 60.00 | -16.95 |
| 17.259 | Peak | 37.29 | 0.57 | 37.86 | 60.00 | -22.14 |
| 21.564 | Peak | 41.54 | 0.66 | 42.20 | 60.00 | -17.80 |

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Report Number :TERF2212002706ER

Test Mode :5G

Power :120V/60Hz

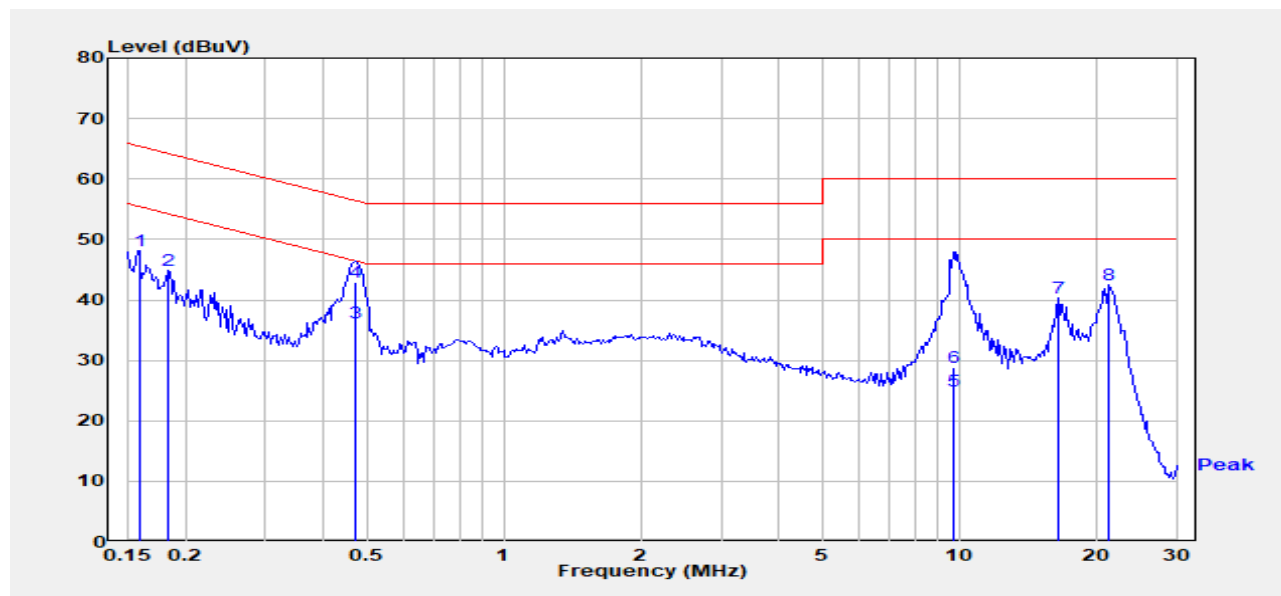
Probe :N

Test Site :Conduction 1

Test Date :2023-03-03

Temp./Humi. :23.8/52

Engineer :GN Lin



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|----------|---------------|--------|--------|-------|--------|
| MHz | Mode | Reading Level | | FS | | |
| | PK/QP/AV | dBμV | dB | dBμV | dBμV | dB |
| 0.158 | Peak | 48.05 | 0.05 | 48.10 | 65.55 | -17.46 |
| 0.183 | Peak | 44.81 | 0.05 | 44.86 | 64.34 | -19.48 |
| 0.471 | Average | 36.12 | 0.05 | 36.17 | 46.50 | -10.33 |
| 0.471 | QP | 42.84 | 0.05 | 42.89 | 56.50 | -13.61 |
| 9.703 | Average | 24.53 | 0.33 | 24.86 | 50.00 | -25.14 |
| 9.703 | QP | 28.46 | 0.33 | 28.79 | 60.00 | -31.21 |
| 16.482 | Peak | 39.81 | 0.47 | 40.28 | 60.00 | -19.72 |
| 21.235 | Peak | 41.95 | 0.54 | 42.49 | 60.00 | -17.51 |

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Cradle (S/N: VM3AC2235G00006)

Report Number :TERF2212002706ER

Test Mode :5G

Power :120V/60Hz

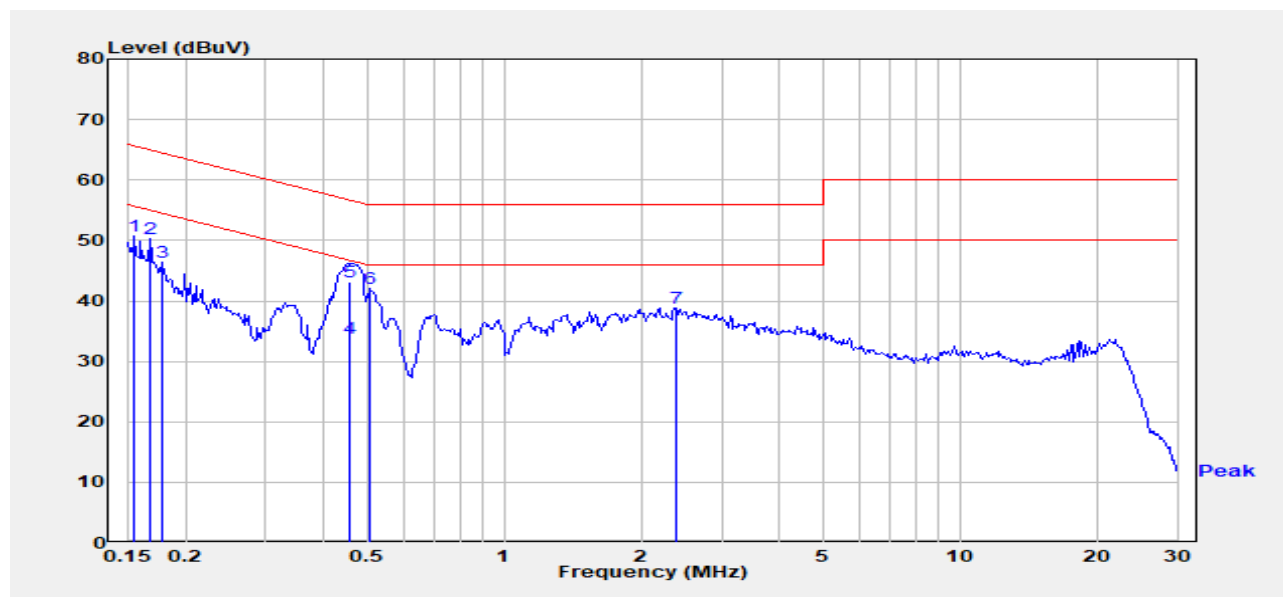
Probe :L

Test Site :Conduction 1

Test Date :2023-03-03

Temp./Humi. :23.8/52

Engineer :GN Lin



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|-------|--------|
| MHz | Mode | Reading Level | | FS | | |
| | PK/QP/AV | dBuV | dB | dBuV | dBuV | dB |
| 0.155 | Peak | 50.76 | 0.05 | 50.81 | 65.74 | -14.94 |
| 0.167 | Peak | 50.21 | 0.05 | 50.26 | 65.11 | -14.84 |
| 0.178 | Peak | 46.45 | 0.05 | 46.50 | 64.60 | -18.10 |
| 0.457 | Average | 33.75 | 0.05 | 33.80 | 46.75 | -12.95 |
| 0.457 | QP | 43.16 | 0.05 | 43.21 | 56.75 | -13.54 |
| 0.509 | Peak | 41.92 | 0.05 | 41.97 | 56.00 | -14.03 |
| 2.380 | Peak | 38.79 | 0.11 | 38.89 | 56.00 | -17.11 |

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Report Number :TERF2212002706ER

Test Mode :5G

Power :120V/60Hz

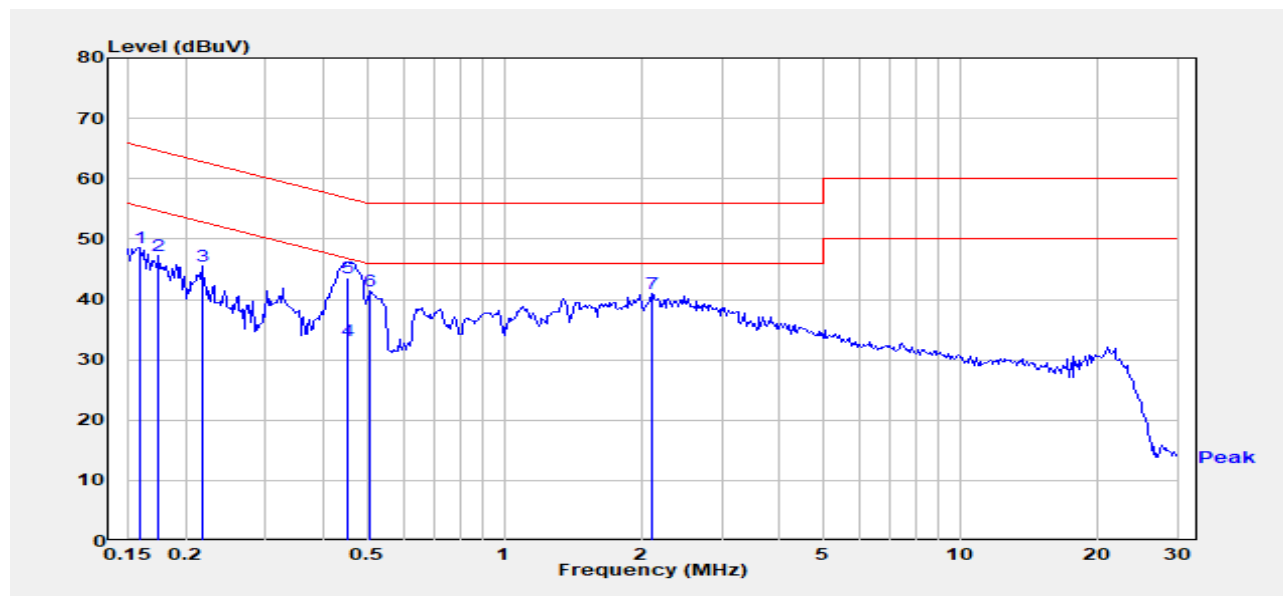
Probe :N

Test Site :Conduction 1

Test Date :2023-03-03

Temp./Humi. :23.8/52

Engineer :GN Lin



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV | Limit dBμV | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.158 | Peak | 48.53 | 0.05 | 48.58 | 65.55 | -16.98 |
| 0.175 | Peak | 47.31 | 0.05 | 47.36 | 64.72 | -17.36 |
| 0.217 | Peak | 45.44 | 0.05 | 45.49 | 62.94 | -17.45 |
| 0.453 | Average | 33.09 | 0.05 | 33.14 | 46.82 | -13.67 |
| 0.453 | QP | 43.45 | 0.05 | 43.50 | 56.82 | -13.31 |
| 0.509 | Peak | 41.32 | 0.05 | 41.37 | 56.00 | -14.63 |
| 2.105 | Peak | 40.80 | 0.09 | 40.89 | 56.00 | -15.11 |

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Cradle (S/N: VW3AC2304G00015)

Report Number :TERF2212002706ER

Test Mode :5G

Power :120V/60Hz

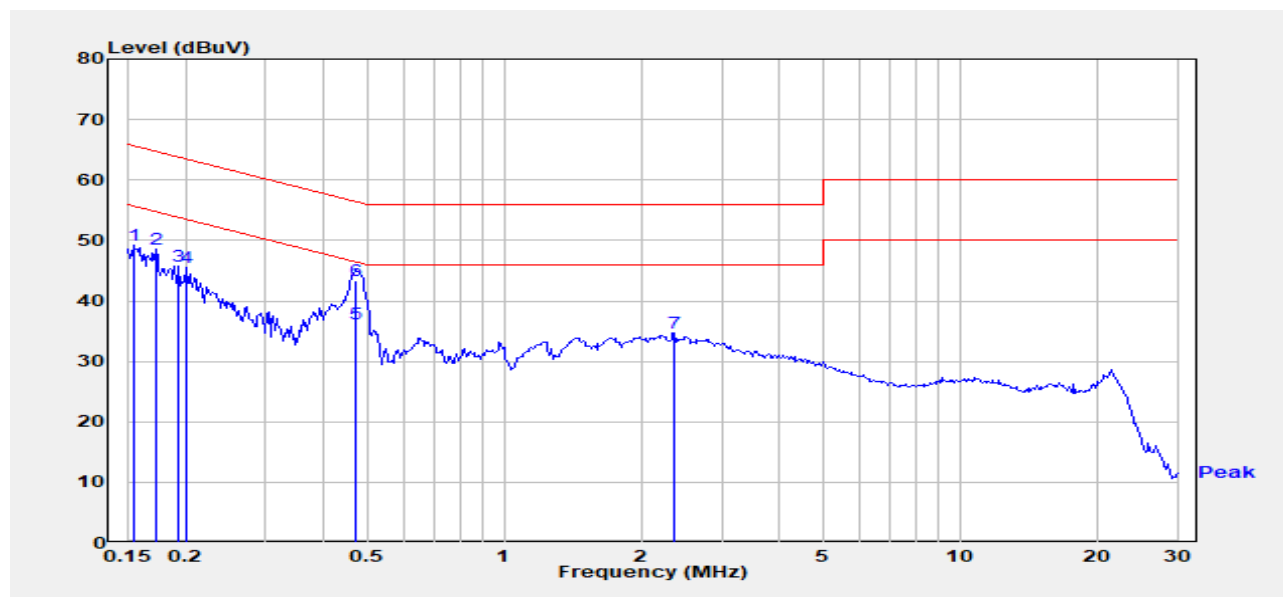
Probe :L

Test Site :Conduction 1

Test Date :2023-03-03

Temp./Humi. :23.8/52

Engineer :GN Lin



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|-------|--------|
| MHz | Mode | Reading Level | | FS | | |
| | PK/QP/AV | dBuV | dB | dBuV | dBuV | dB |
| 0.153 | Peak | 49.09 | 0.05 | 49.14 | 65.81 | -16.67 |
| 0.172 | Peak | 48.56 | 0.05 | 48.61 | 64.85 | -16.24 |
| 0.193 | Peak | 45.66 | 0.05 | 45.71 | 63.90 | -18.18 |
| 0.201 | Peak | 45.41 | 0.05 | 45.46 | 63.58 | -18.11 |
| 0.475 | Average | 36.20 | 0.05 | 36.25 | 46.43 | -10.18 |
| 0.475 | QP | 43.41 | 0.05 | 43.46 | 56.43 | -12.97 |
| 2.362 | Peak | 34.61 | 0.11 | 34.72 | 56.00 | -21.28 |

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Report Number :TERF2212002706ER

Test Mode :5G

Power :120V/60Hz

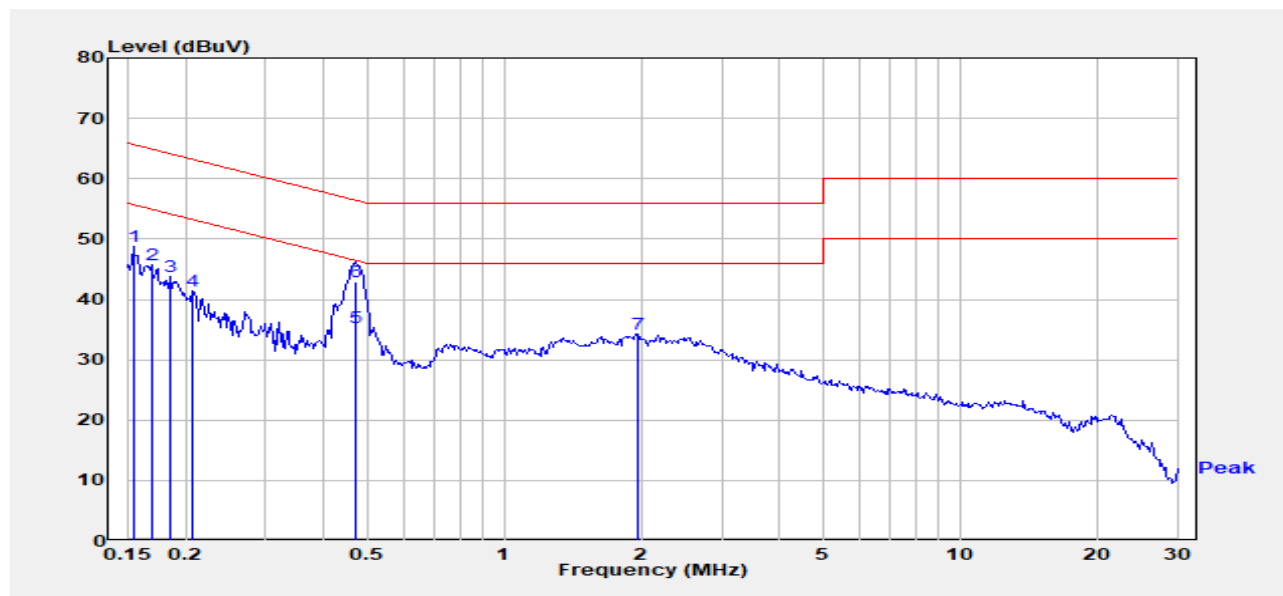
Probe :N

Test Site :Conduction 1

Test Date :2023-03-03

Temp./Humi. :23.8/52

Engineer :GN Lin



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV | Limit dBμV | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.153 | Peak | 48.67 | 0.05 | 48.72 | 65.81 | -17.09 |
| 0.168 | Peak | 45.68 | 0.05 | 45.73 | 65.04 | -19.32 |
| 0.185 | Peak | 43.81 | 0.05 | 43.86 | 64.28 | -20.42 |
| 0.207 | Peak | 41.29 | 0.05 | 41.34 | 63.32 | -21.98 |
| 0.471 | Average | 35.33 | 0.05 | 35.38 | 46.50 | -11.12 |
| 0.471 | QP | 42.93 | 0.05 | 42.98 | 56.50 | -13.52 |
| 1.965 | Peak | 34.20 | 0.08 | 34.28 | 56.00 | -21.72 |

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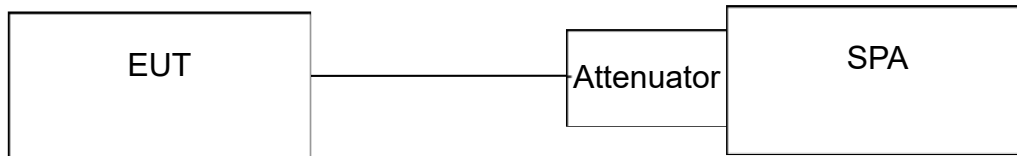
8 EMISSION BANDWIDTH MEASUREMENT

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



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 | 22.62 | 13.540 |
| 5220 | 23.28 | 13.670 |
| 5240 | 22.70 | 13.560 |
| 5260 | 24.25 | 13.850 |
| 5300 | 24.67 | 13.920 |
| 5320 | 22.33 | 13.490 |
| 5500 | 21.89 | 13.400 |
| 5580 | 24.76 | 13.940 |
| 5700 | 21.58 | 13.340 |

802.11a_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5180 | 21.36 | 13.300 |
| 5220 | 22.17 | 13.460 |
| 5240 | 21.65 | 13.350 |
| 5260 | 22.86 | 13.590 |
| 5300 | 21.70 | 13.360 |
| 5320 | 21.62 | 13.350 |
| 5500 | 21.92 | 13.410 |
| 5580 | 22.67 | 13.550 |
| 5700 | 21.49 | 13.320 |

802.11a_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5745 | 15.15 | 11.800 |
| 5785 | 16.38 | 12.140 |
| 5825 | 16.27 | 12.110 |

802.11a_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5745 | 16.32 | 12.130 |
| 5785 | 14.80 | 11.700 |
| 5825 | 16.39 | 12.150 |

802.11a_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5240 | 5248.31 | < 5250 |
| 5745 | 5736.74 | > 5725 |

802.11a_Ch1

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5240 | 5248.32 | < 5250 |
| 5745 | 5736.80 | > 5725 |

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802.11n_HT20_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5180 | 23.48 | 13.710 |
| 5220 | 23.15 | 13.650 |
| 5240 | 22.41 | 13.500 |
| 5260 | 26.13 | 14.170 |
| 5300 | 24.43 | 13.880 |
| 5320 | 22.55 | 13.530 |
| 5500 | 23.03 | 13.620 |
| 5580 | 25.70 | 14.100 |
| 5700 | 21.94 | 13.410 |

802.11n_HT20_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5180 | 22.55 | 13.530 |
| 5220 | 21.55 | 13.330 |
| 5240 | 22.86 | 13.590 |
| 5260 | 23.42 | 13.700 |
| 5300 | 21.50 | 13.320 |
| 5320 | 23.46 | 13.700 |
| 5500 | 22.38 | 13.500 |
| 5580 | 23.04 | 13.620 |
| 5700 | 21.95 | 13.410 |

802.11n_HT20_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|----------------|--------------------|--------------------|
| 5745 | 17.24 | 12.370 |
| 5785 | 16.90 | 12.280 |
| 5825 | 11.76 | 10.700 |

802.11n_HT20_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|----------------|--------------------|--------------------|
| 5745 | 11.10 | 10.450 |
| 5785 | 16.93 | 12.290 |
| 5825 | 13.83 | 11.410 |

802.11n_HT20_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5240 | 5248.89 | < 5250 |
| 5745 | 5736.14 | > 5725 |

802.11n_HT20_Ch1

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5240 | 5248.90 | < 5250 |
| 5745 | 5736.18 | > 5725 |

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802.11n_HT40_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5190 | 40.70 | 16.100 |
| 5230 | 40.40 | 16.060 |
| 5270 | 42.67 | 16.300 |
| 5310 | 41.03 | 16.130 |
| 5510 | 40.64 | 16.090 |
| 5550 | 43.70 | 16.400 |
| 5670 | 41.11 | 16.140 |

802.11n_HT40_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5190 | 40.68 | 16.090 |
| 5230 | 40.39 | 16.060 |
| 5270 | 40.40 | 16.060 |
| 5310 | 40.61 | 16.090 |
| 5510 | 40.79 | 16.110 |
| 5550 | 41.38 | 16.170 |
| 5670 | 40.70 | 16.100 |

802.11n_HT40_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|----------------|--------------------|--------------------|
| 5755 | 35.21 | 15.470 |
| 5795 | 34.14 | 15.330 |

802.11n_HT40_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|----------------|--------------------|--------------------|
| 5755 | 35.48 | 15.500 |
| 5795 | 35.69 | 15.530 |

802.11n_HT40_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5230 | 5248.13 | < 5250 |
| 5755 | 5736.90 | > 5725 |

802.11n_HT40_Ch1

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5230 | 5248.17 | < 5250 |
| 5755 | 5736.93 | > 5725 |

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802.11ac_VHT80_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5210 | 82.15 | 19.150 |
| 5290 | 82.81 | 19.180 |
| 5530 | 83.17 | 19.200 |
| 5610 | 96.58 | 19.850 |

802.11ac_VHT80_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|----------------|---------------------|--------------------|
| 5210 | 81.40 | 19.110 |
| 5290 | 81.41 | 19.110 |
| 5530 | 81.48 | 19.110 |
| 5610 | 84.77 | 19.280 |

802.11ac_VHT80_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|----------------|--------------------|--------------------|
| 5775 | 75.13 | 18.760 |

802.11ac_VHT80_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|----------------|--------------------|--------------------|
| 5775 | 75.10 | 18.760 |

802.11ac_VHT80_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5210 | 5247.93 | < 5250 |
| 5775 | 5737.26 | > 5725 |

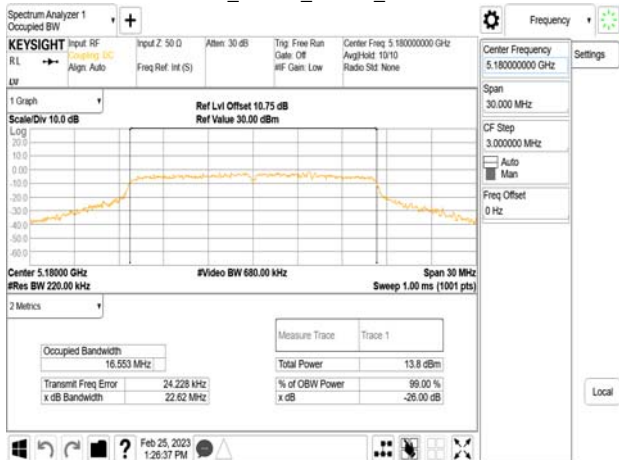
802.11ac_VHT80_Ch1

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|----------------|----------------------------|----------------|
| 5210 | 5247.90 | < 5250 |
| 5775 | 5737.35 | > 5725 |

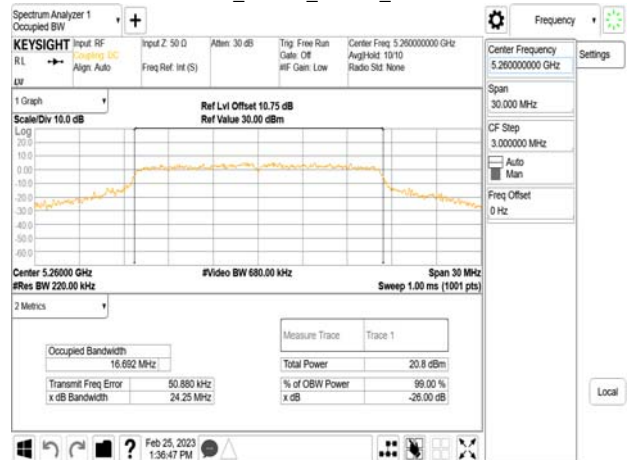
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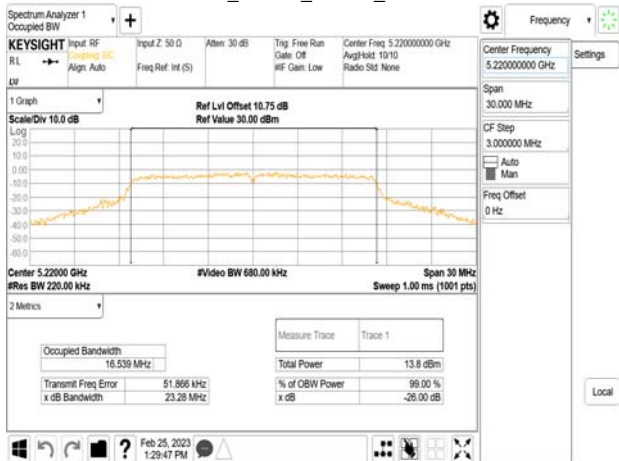
802.11a_20MHz_Chain0_5180MHz



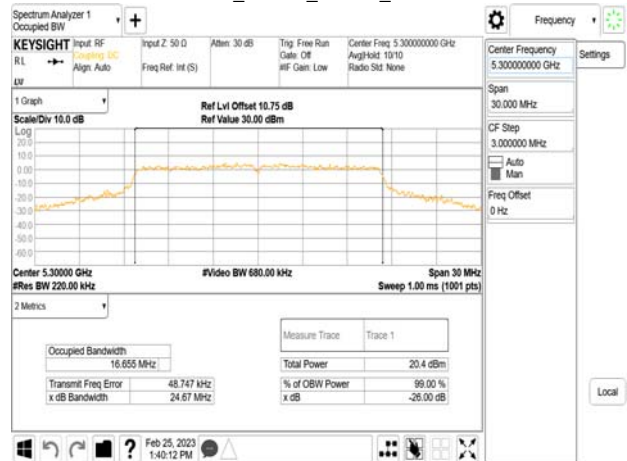
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

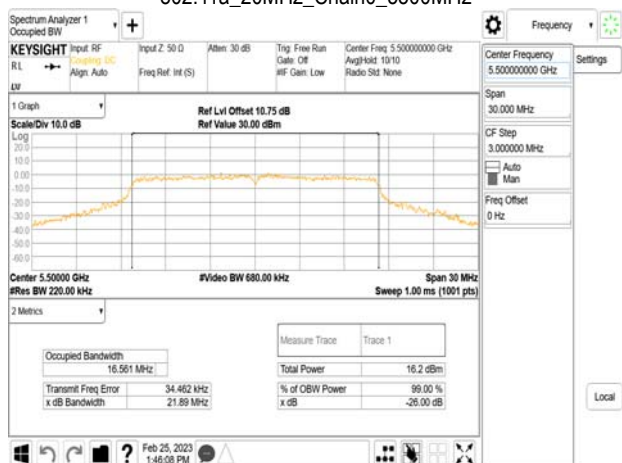


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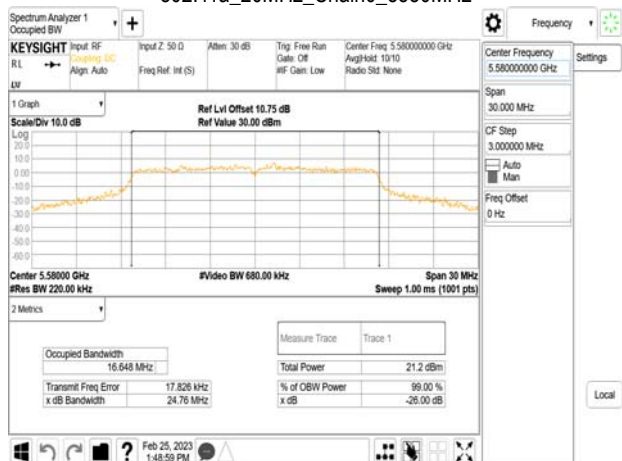
802.11a_20MHz_Chain0_5500MHz



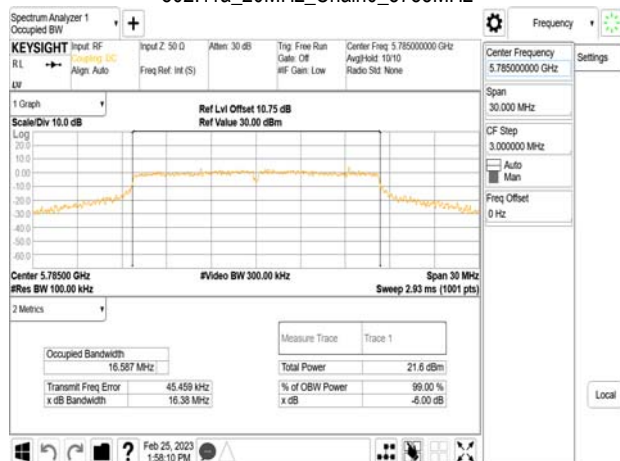
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5580MHz



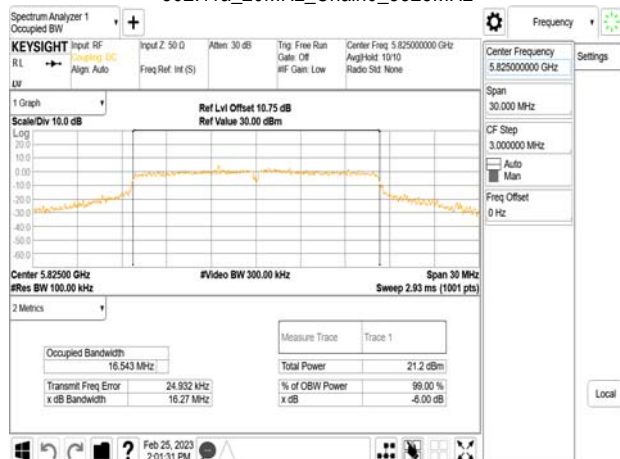
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz

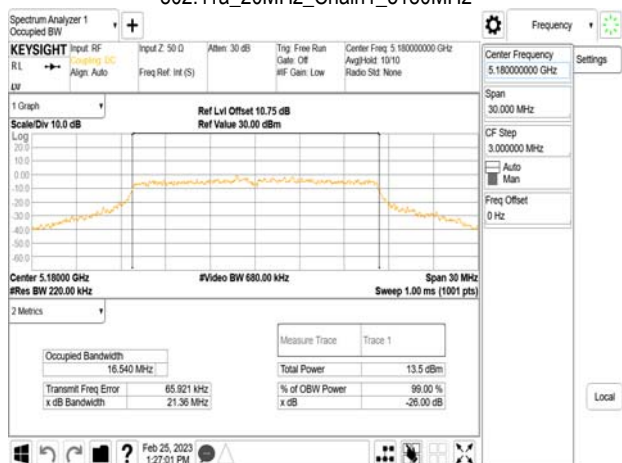


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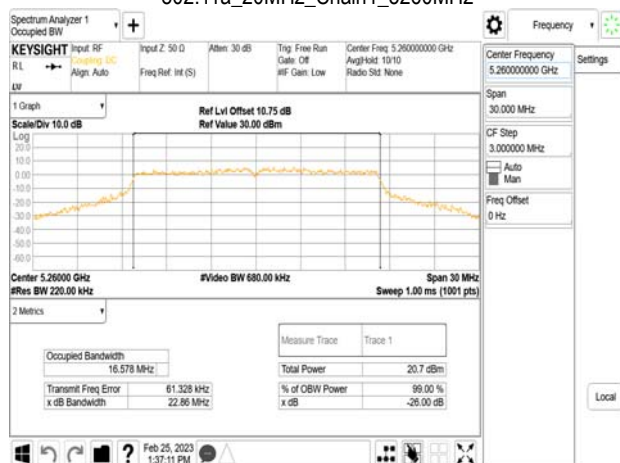
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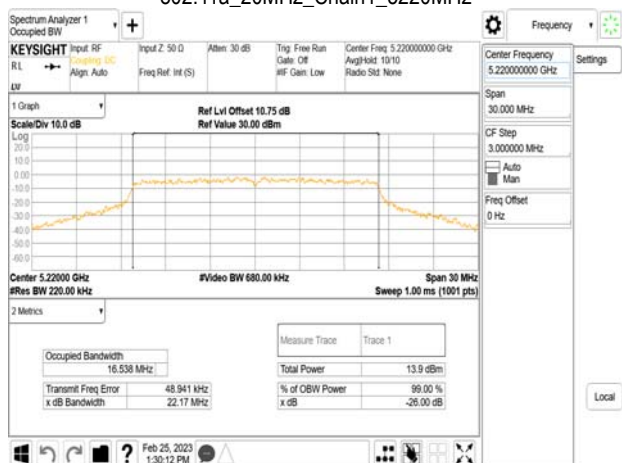
802.11a_20MHz_Chain1_5180MHz



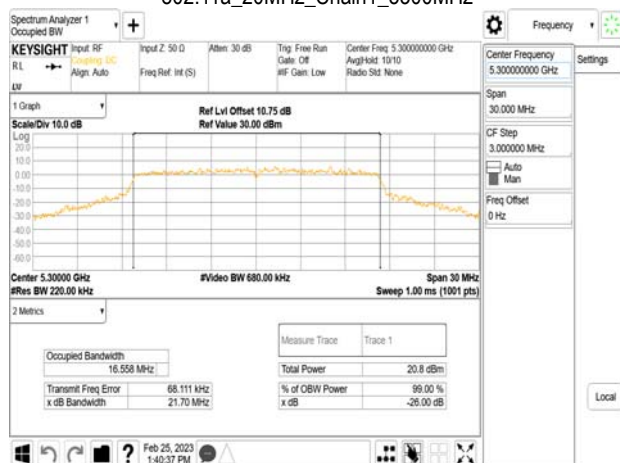
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



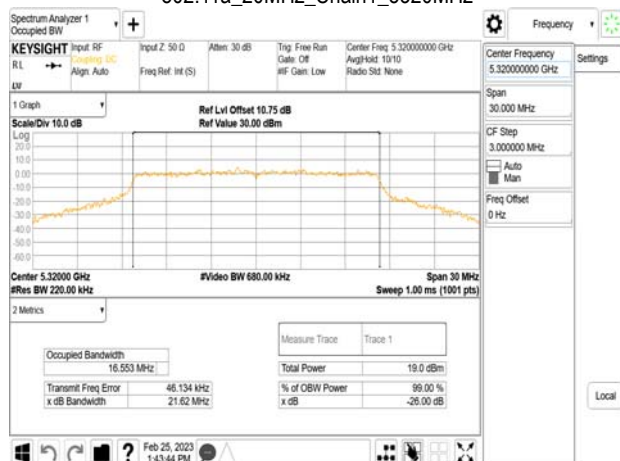
802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5320MHz

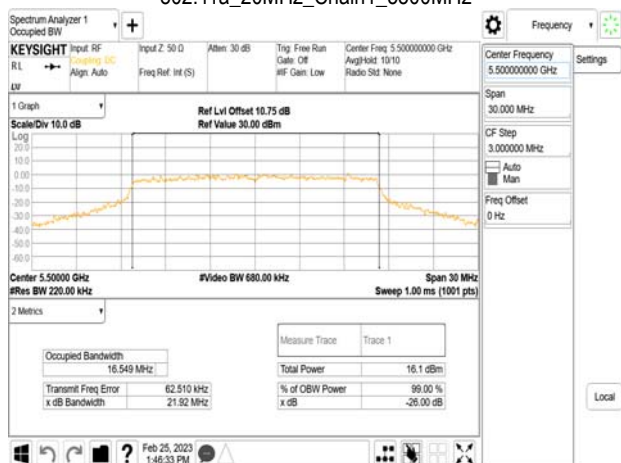


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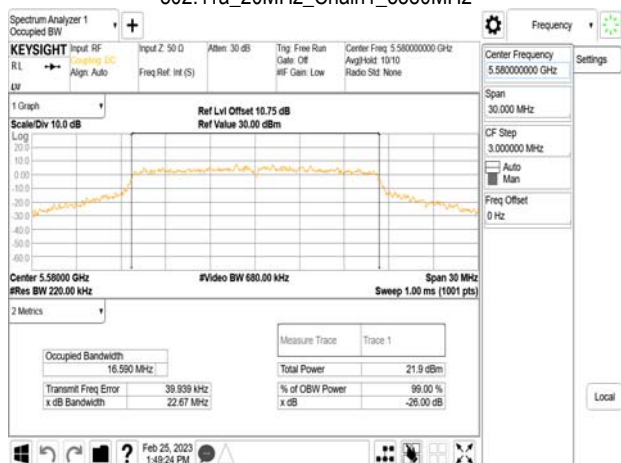
802.11a_20MHz_Chain1_5500MHz



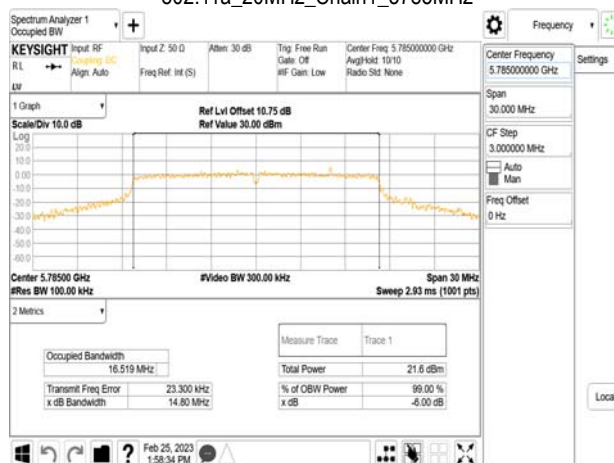
802.11a_20MHz_Chain1_5745MHz



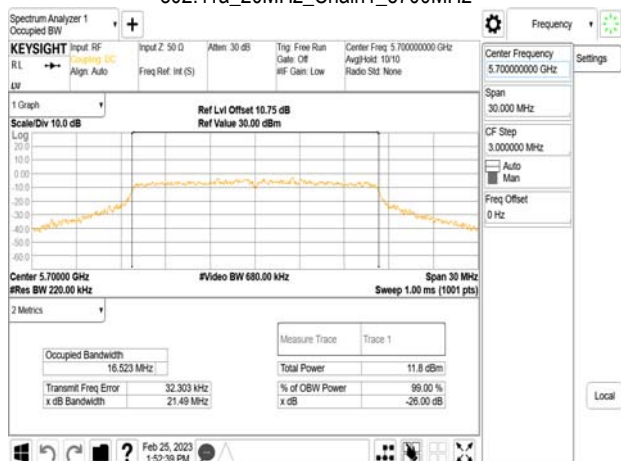
802.11a_20MHz_Chain1_5580MHz



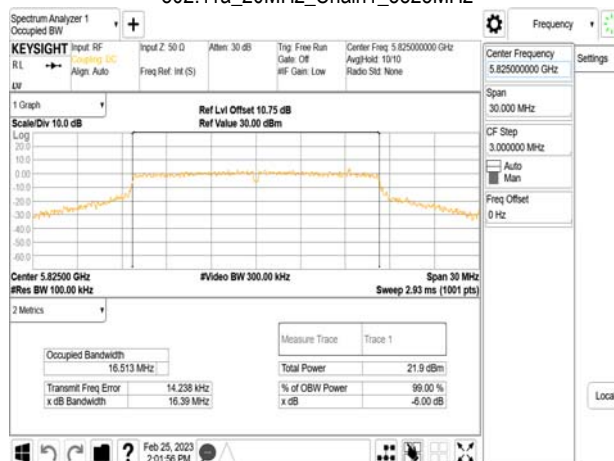
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5825MHz

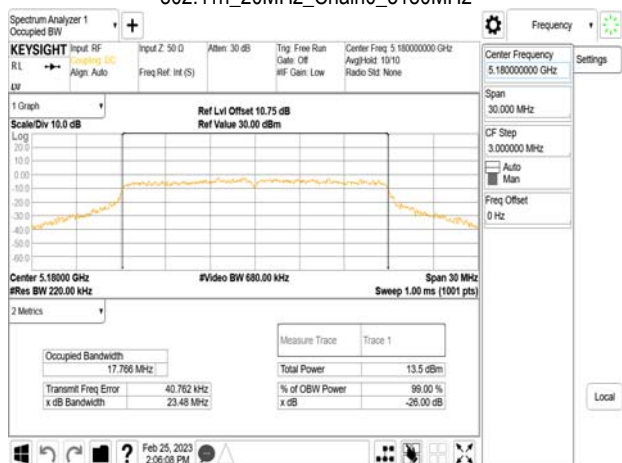


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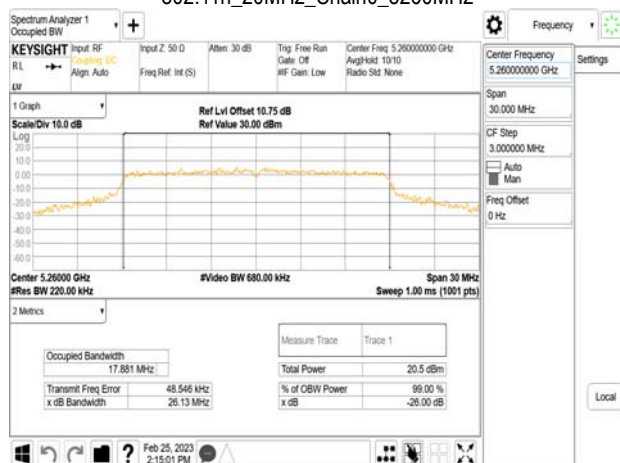
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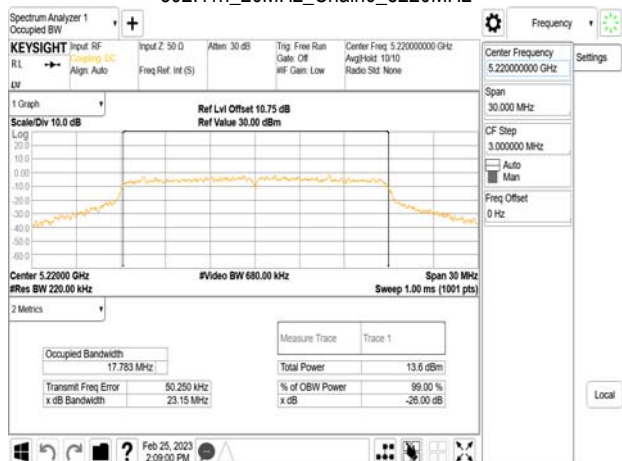
802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



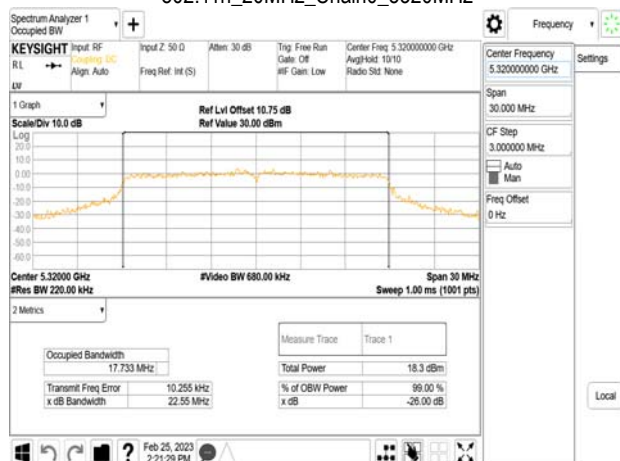
802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz

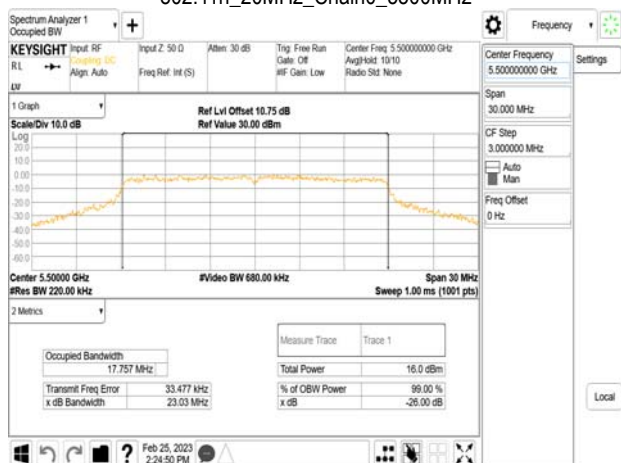


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802.11n_20MHz_Chain0_5500MHz



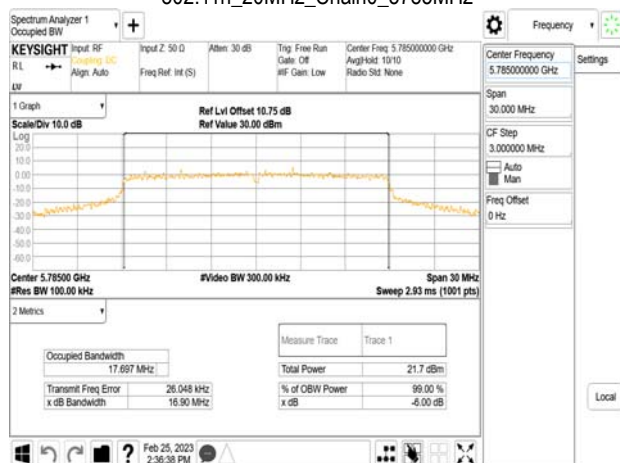
802.11n_20MHz_Chain0_5745MHz



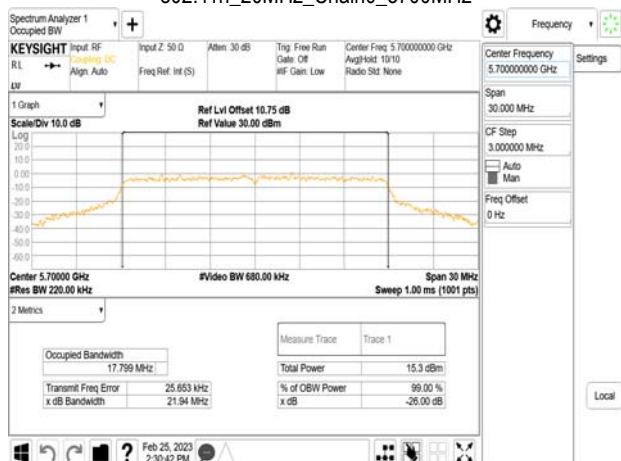
802.11n_20MHz_Chain0_5580MHz



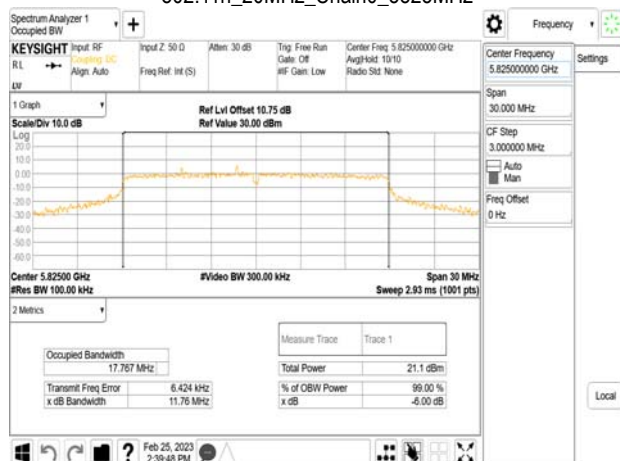
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5825MHz



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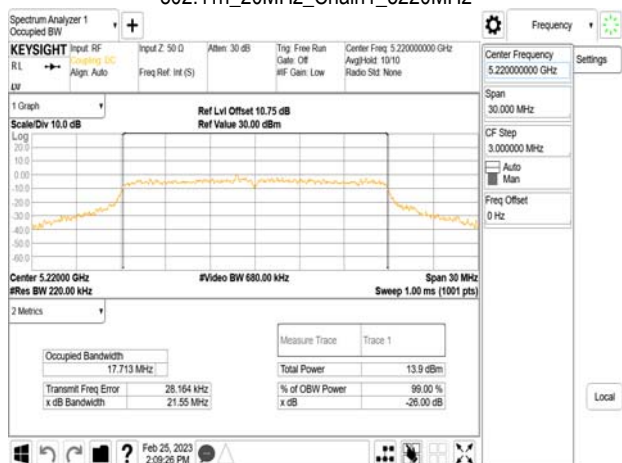
802.11n_20MHz_Chain1_5180MHz



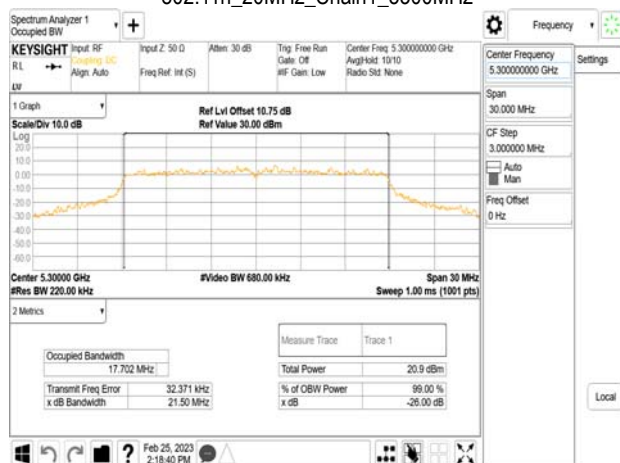
802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5220MHz



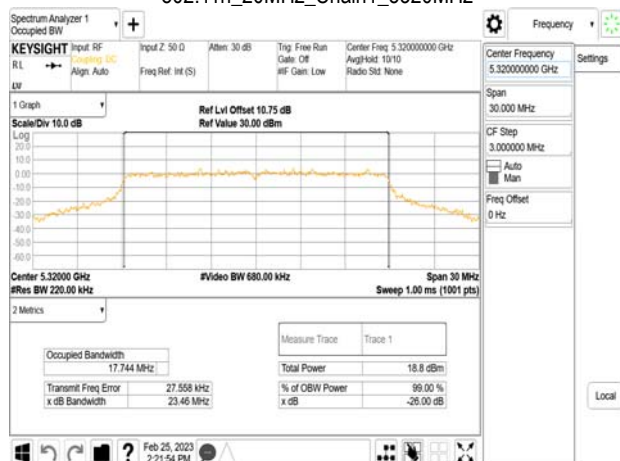
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz

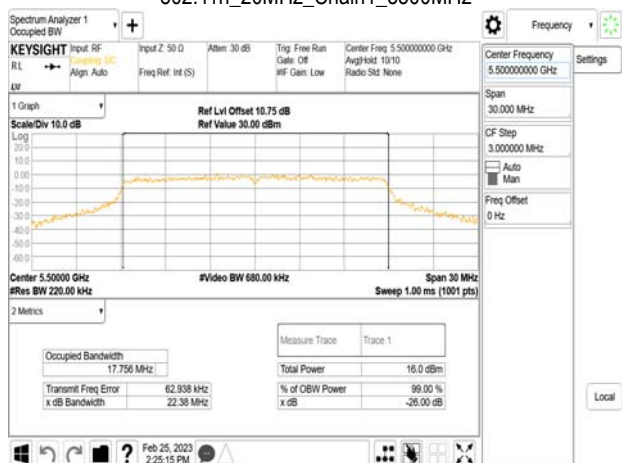


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802.11n_20MHz_Chain1_5500MHz



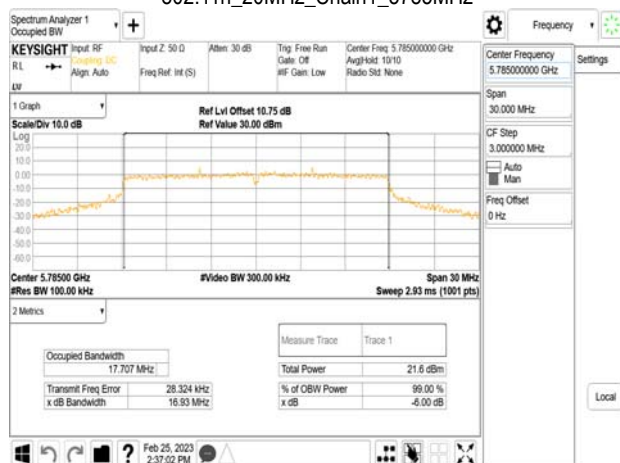
802.11n_20MHz_Chain1_5745MHz



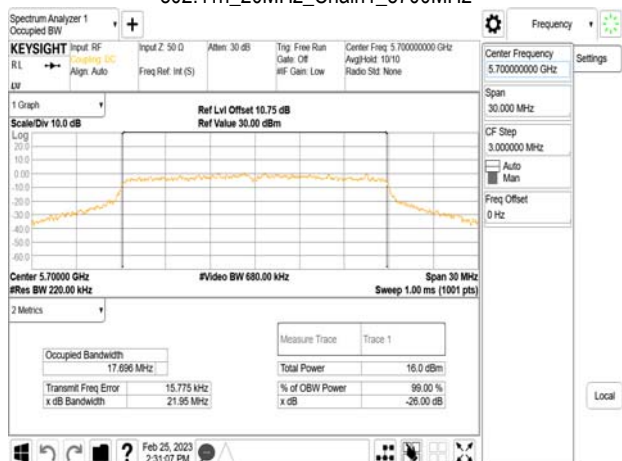
802.11n_20MHz_Chain1_5580MHz



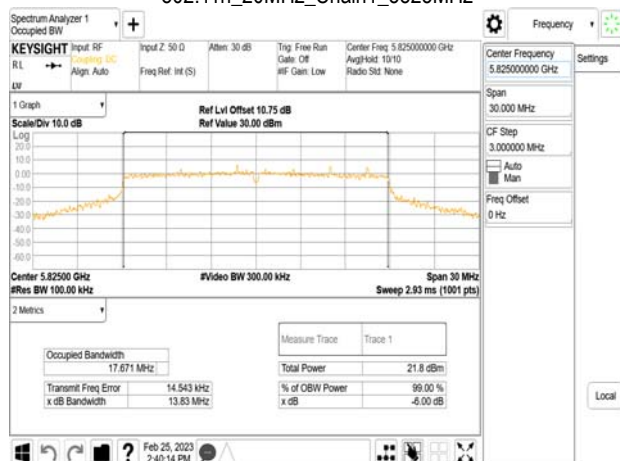
802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz



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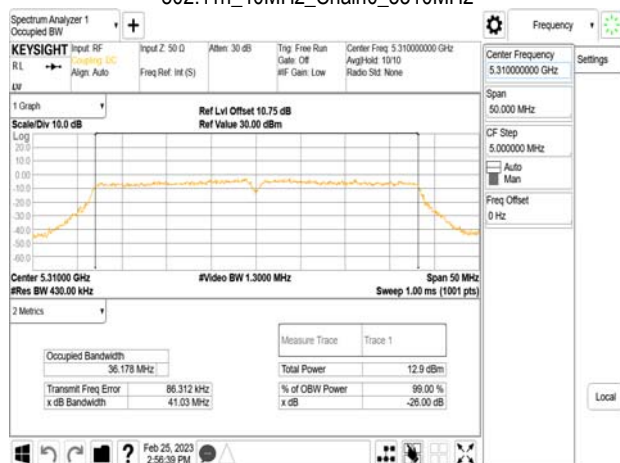
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802.11n_40MHz_Chain0_5190MHz



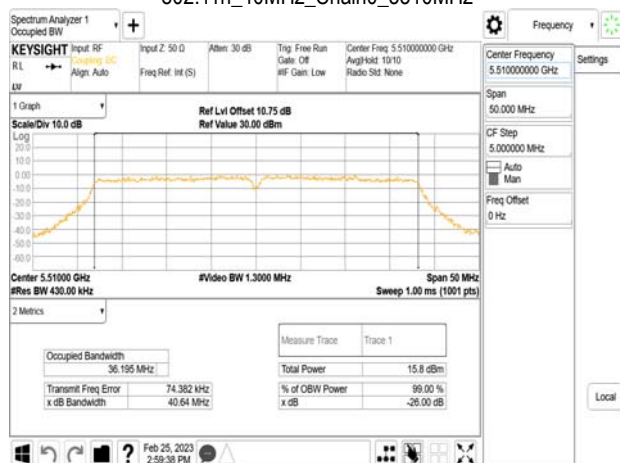
802.11n_40MHz_Chain0_5310MHz



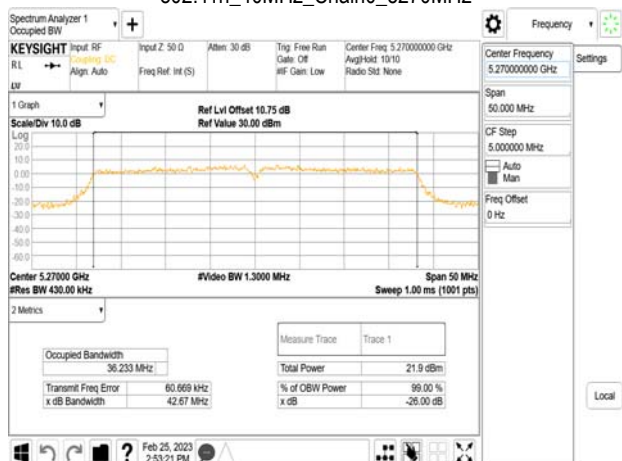
802.11n_40MHz_Chain0_5230MHz



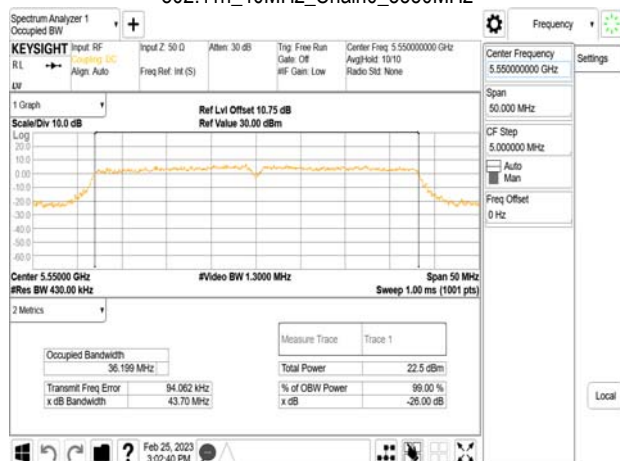
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



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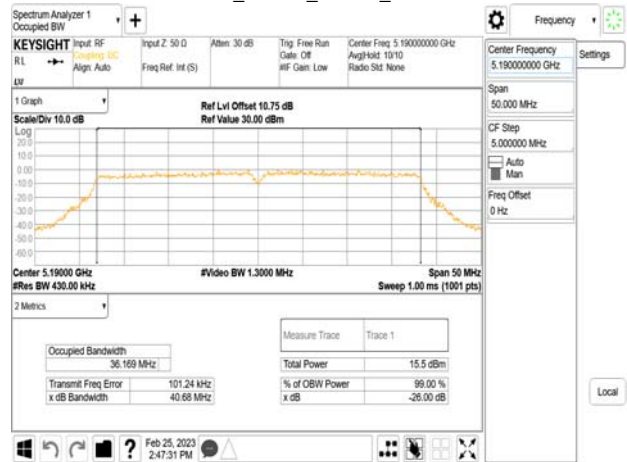
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802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz



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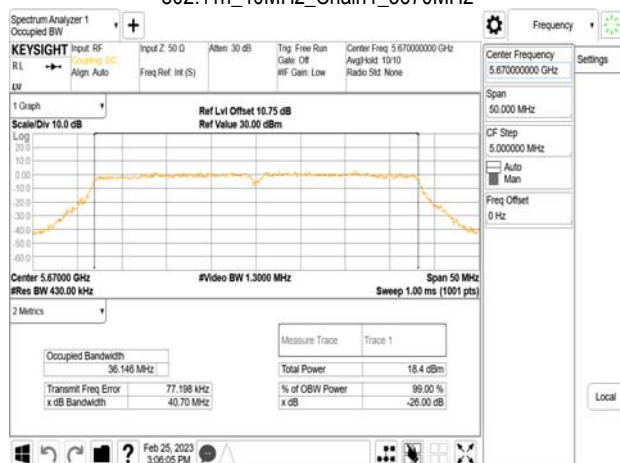
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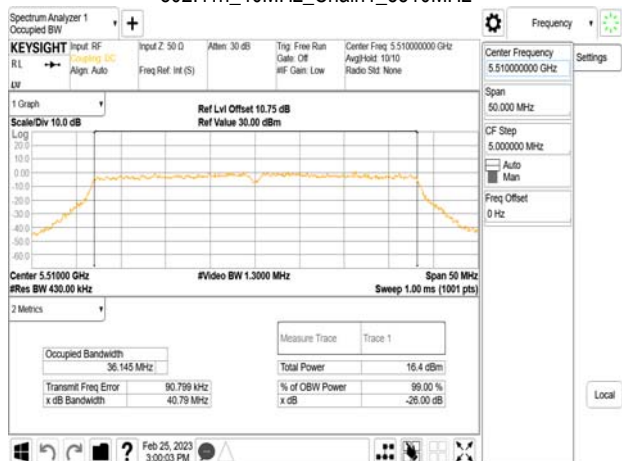
802.11n_40MHz_Chain1_5310MHz



802.11n_40MHz_Chain1_5670MHz



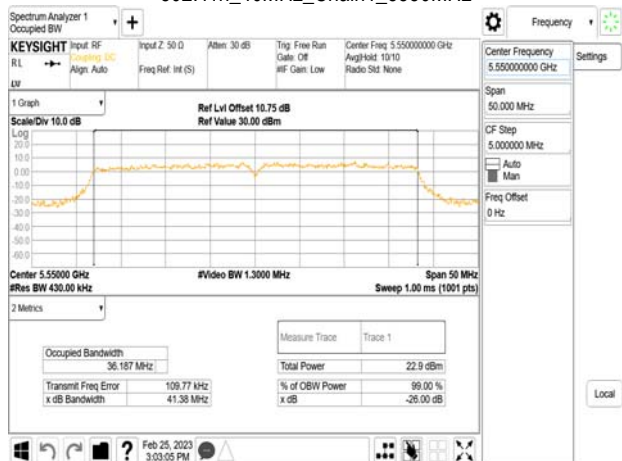
802.11n_40MHz_Chain1_5510MHz



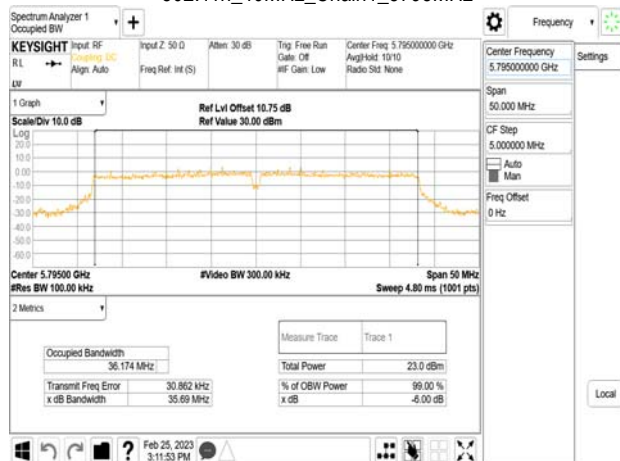
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5795MHz



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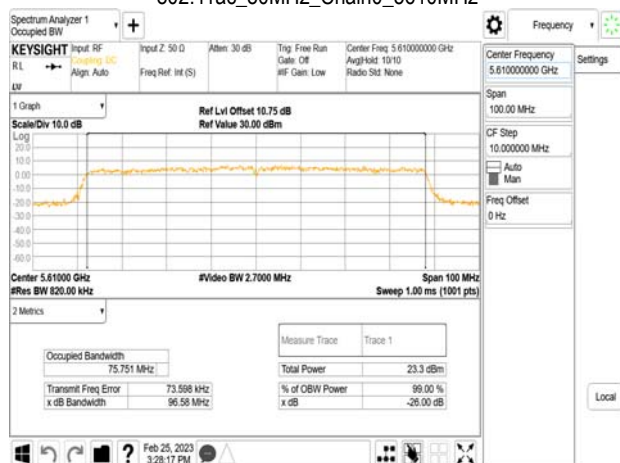
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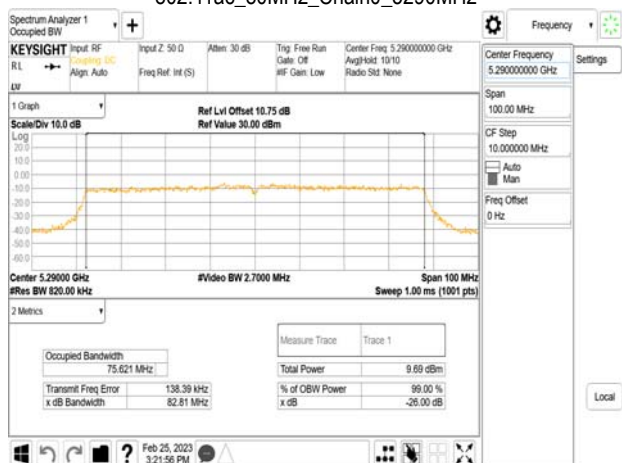
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



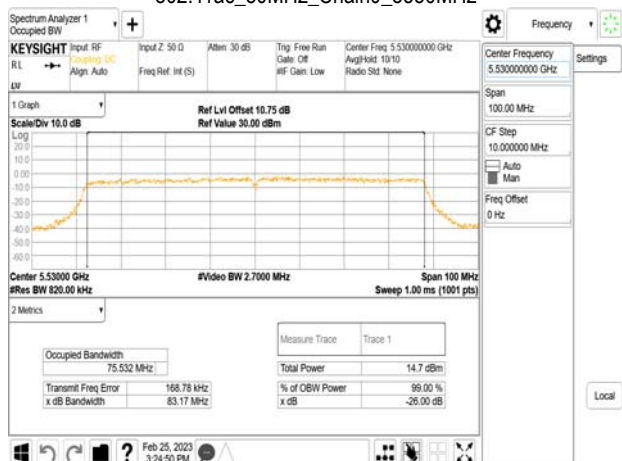
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain1_5210MHz

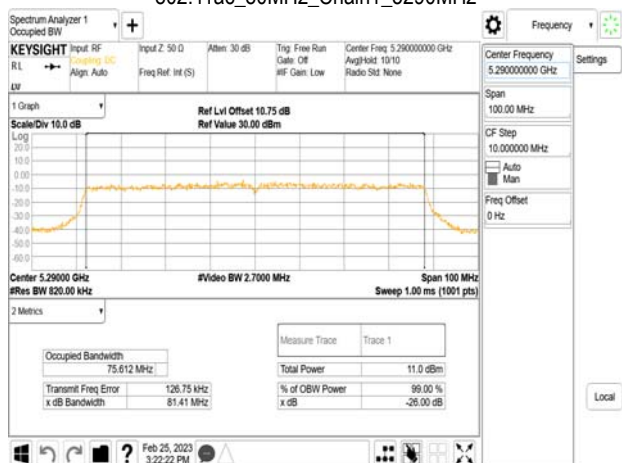


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802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5610MHz



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8.4.2 ISED Occupied Bandwidth

802.11a_Ch0

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5180 | 16.531 | 12.180 |
| 5220 | 16.535 | 12.180 |
| 5240 | 16.555 | 12.190 |
| 5260 | 16.622 | 12.210 |
| 5300 | 16.591 | 12.200 |
| 5320 | 16.538 | 12.180 |
| 5500 | 16.527 | 12.180 |
| 5580 | 16.640 | 12.210 |
| 5700 | 16.528 | 12.180 |

802.11a_Ch1

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5180 | 16.545 | 12.190 |
| 5220 | 16.507 | 12.180 |
| 5240 | 16.547 | 12.190 |
| 5260 | 16.560 | 12.190 |
| 5300 | 16.549 | 12.190 |
| 5320 | 16.510 | 12.180 |
| 5500 | 16.528 | 12.180 |
| 5580 | 16.584 | 12.200 |
| 5700 | 16.501 | 12.180 |

802.11a_Ch0

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5745 | 16.710 | 16.250 |
| 5785 | 16.691 | 16.100 |
| 5825 | 16.672 | 16.330 |

802.11a_Ch1

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5745 | 16.548 | 15.830 |
| 5785 | 16.613 | 16.370 |
| 5825 | 16.599 | 16.290 |

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802.11n_HT20_Ch0

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5180 | 17.751 | 12.490 |
| 5220 | 17.717 | 12.480 |
| 5240 | 17.752 | 12.490 |
| 5260 | 17.788 | 12.500 |
| 5300 | 17.823 | 12.510 |
| 5320 | 17.722 | 12.490 |
| 5500 | 17.743 | 12.490 |
| 5580 | 17.790 | 12.500 |
| 5700 | 17.769 | 12.500 |

802.11n_HT20_Ch1

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5180 | 17.735 | 12.490 |
| 5220 | 17.754 | 12.490 |
| 5240 | 17.714 | 12.480 |
| 5260 | 17.747 | 12.490 |
| 5300 | 17.732 | 12.490 |
| 5320 | 17.719 | 12.480 |
| 5500 | 17.737 | 12.490 |
| 5580 | 17.786 | 12.500 |
| 5700 | 17.692 | 12.480 |

802.11n_HT20_Ch0

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5745 | 17.910 | 17.390 |
| 5785 | 17.819 | 17.190 |
| 5825 | 17.852 | 17.200 |

802.11n_HT20_Ch1

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5745 | 17.732 | 17.230 |
| 5785 | 17.796 | 17.480 |
| 5825 | 17.747 | 17.270 |

802.11n_HT40_Ch0

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5190 | 36.196 | 15.590 |
| 5230 | 36.200 | 15.590 |
| 5270 | 36.219 | 15.590 |
| 5310 | 36.201 | 15.590 |
| 5510 | 36.161 | 15.580 |
| 5550 | 36.203 | 15.590 |
| 5670 | 36.176 | 15.580 |

802.11n_HT40_Ch1

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5190 | 36.146 | 15.580 |
| 5230 | 36.166 | 15.580 |
| 5270 | 36.124 | 15.580 |
| 5310 | 36.148 | 15.580 |
| 5510 | 36.083 | 15.570 |
| 5550 | 36.148 | 15.580 |
| 5670 | 36.089 | 15.570 |

802.11n_HT40_Ch0

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5755 | 36.357 | 36.110 |
| 5795 | 36.174 | 36.060 |

802.11n_HT40_Ch1

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5755 | 36.153 | 36.020 |
| 5795 | 36.190 | 36.020 |

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802.11ac_VHT80_Ch0

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5210 | 75.533 | 18.780 |
| 5290 | 75.654 | 18.790 |
| 5530 | 75.522 | 18.780 |
| 5610 | 75.836 | 18.800 |

802.11ac_VHT80_Ch1

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5210 | 75.495 | 18.780 |
| 5290 | 75.579 | 18.780 |
| 5530 | 75.619 | 18.790 |
| 5610 | 75.619 | 18.790 |

802.11ac_VHT80_Ch0

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5775 | 75.731 | 76.170 |

802.11ac_VHT80_Ch1

| Frequency (MHz) | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|--------------|--------------|
| 5775 | 75.653 | 75.960 |

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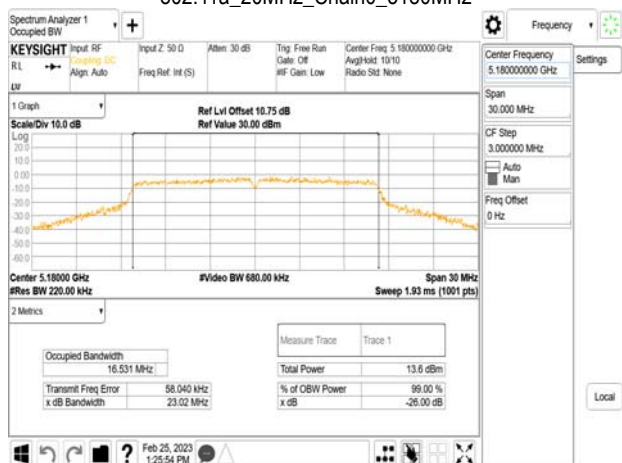
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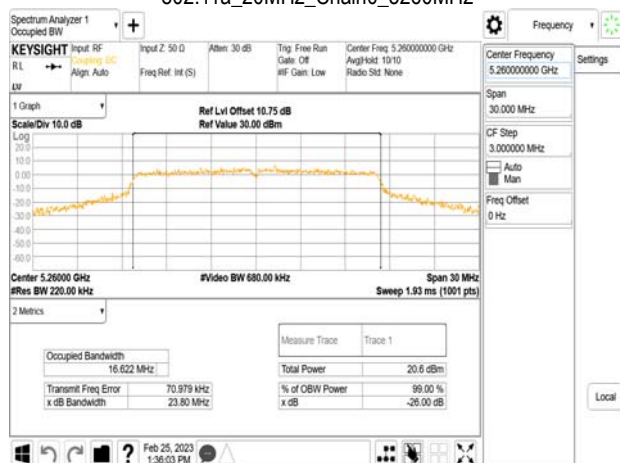
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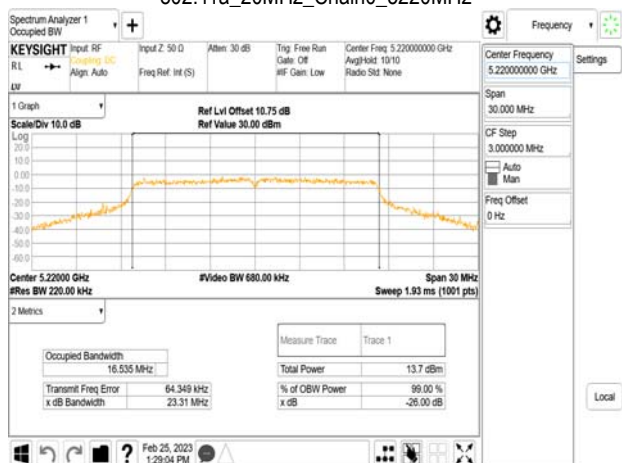
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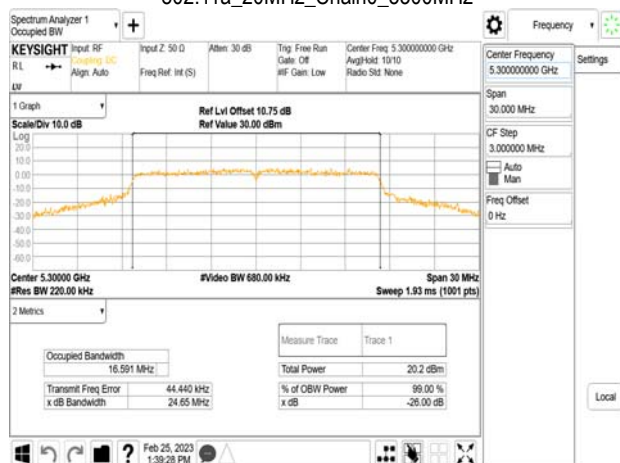
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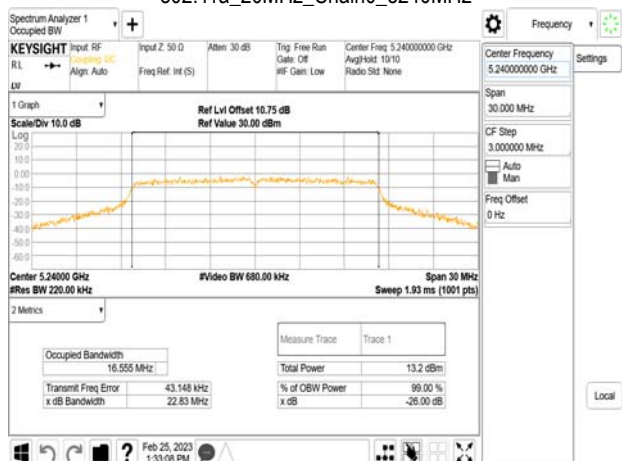
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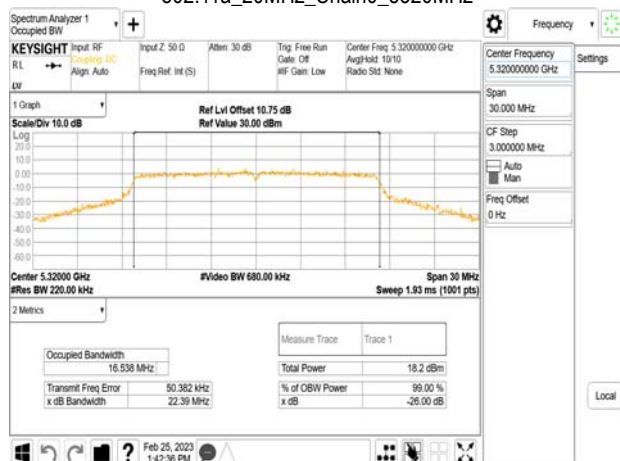
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802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

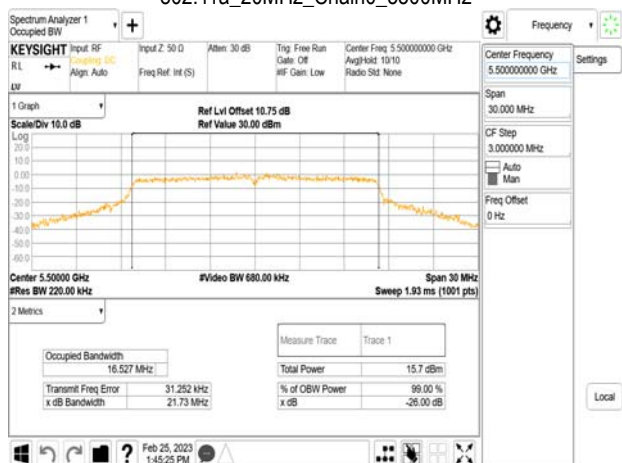


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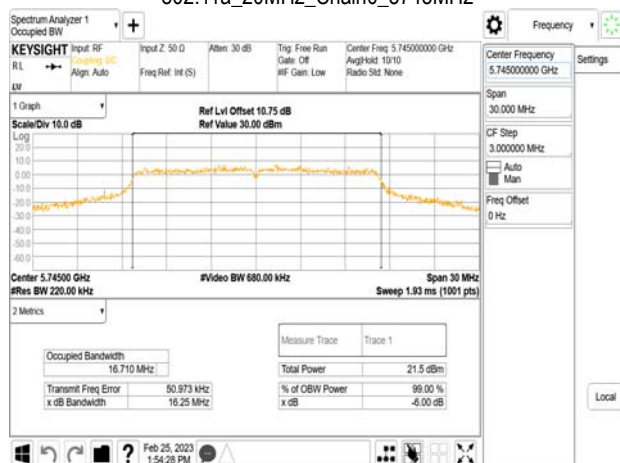
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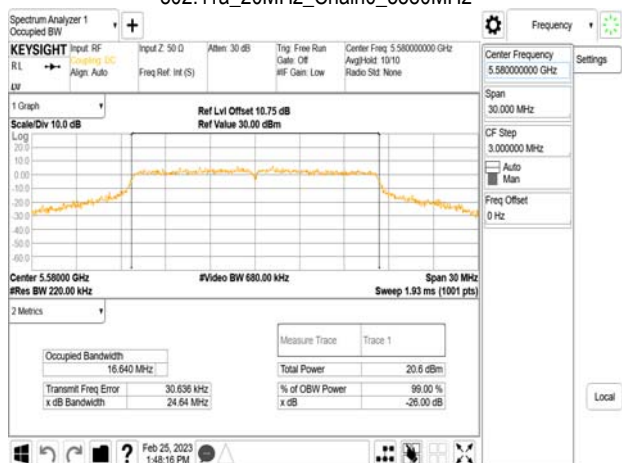
802.11a_20MHz_Chain0_5500MHz



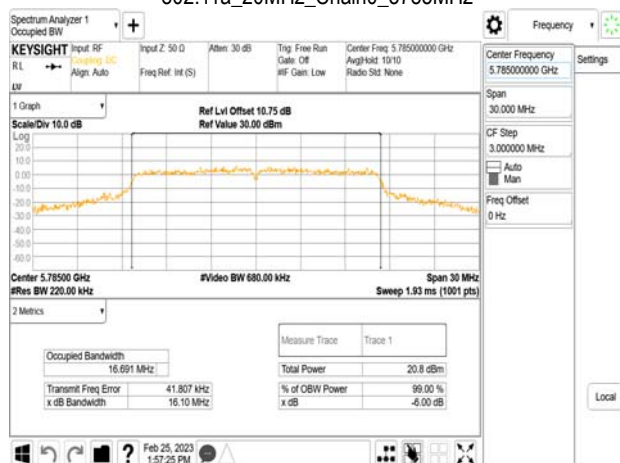
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5580MHz



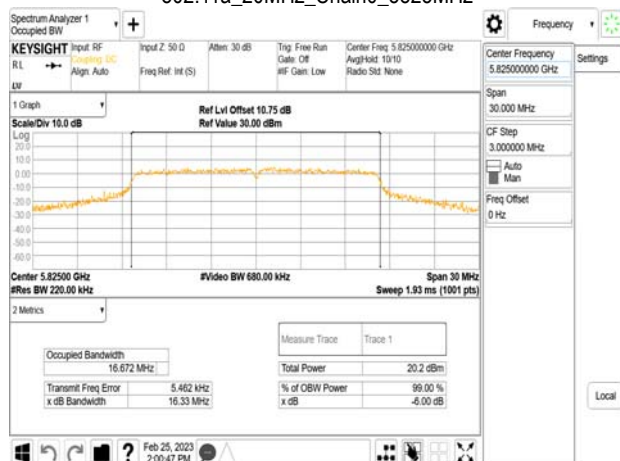
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz

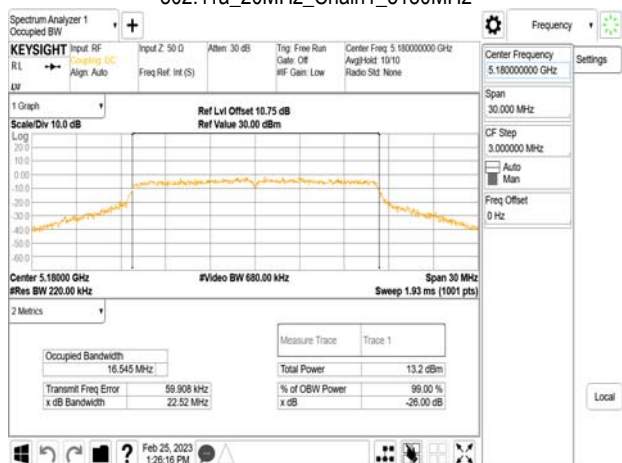


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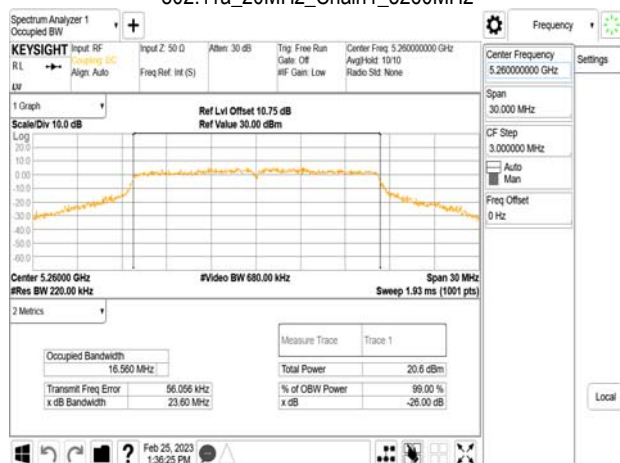
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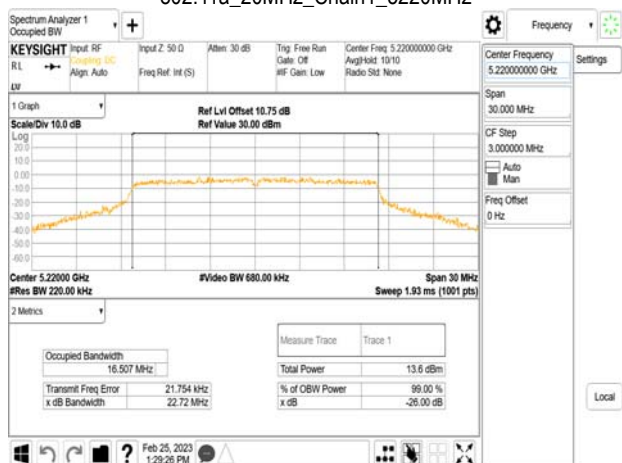
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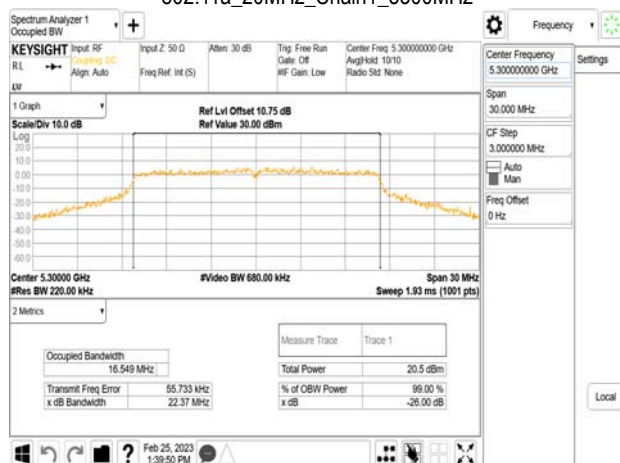
802.11a_20MHz_Chain1_5260MHz



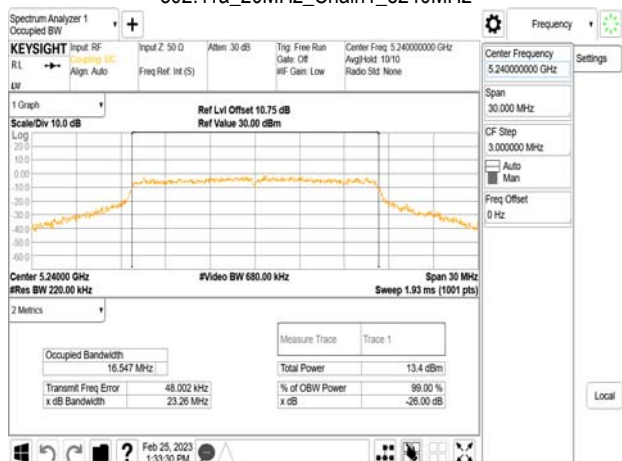
802.11a_20MHz_Chain1_5220MHz



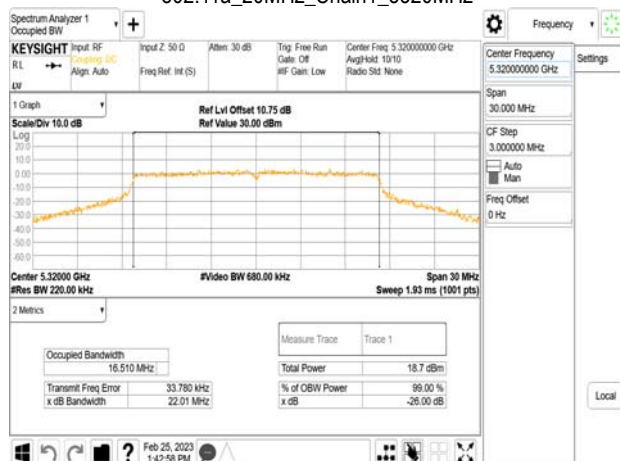
802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5320MHz

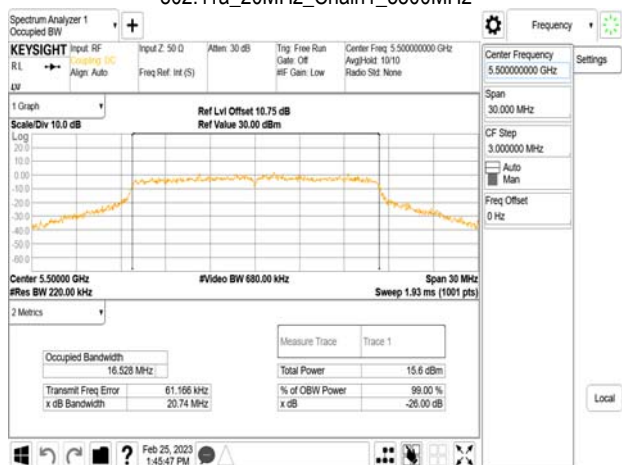


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802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5745MHz



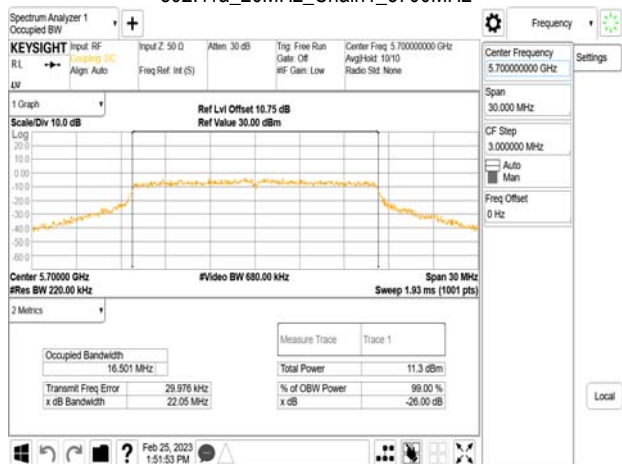
802.11a_20MHz_Chain1_5580MHz



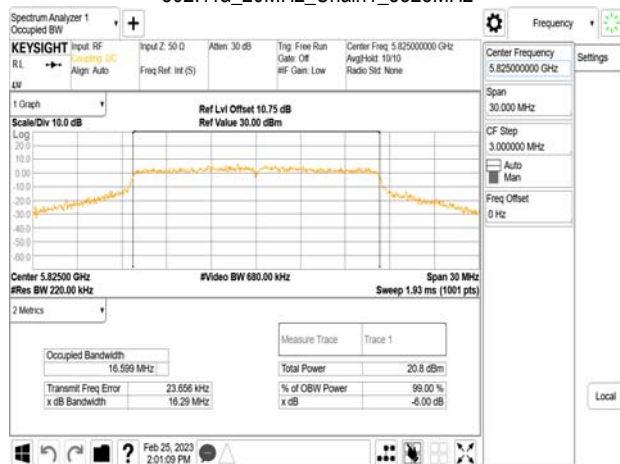
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5825MHz

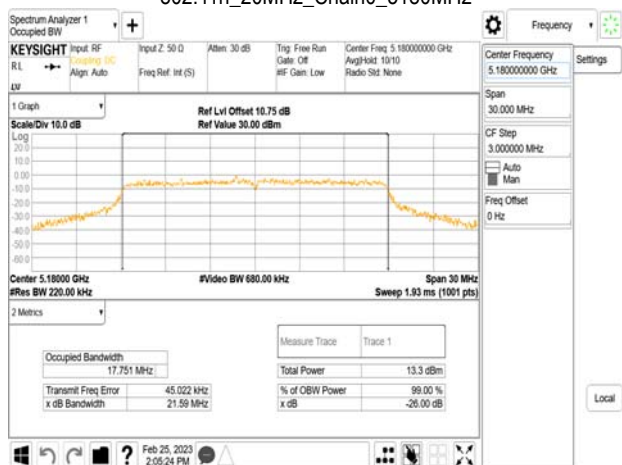


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802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



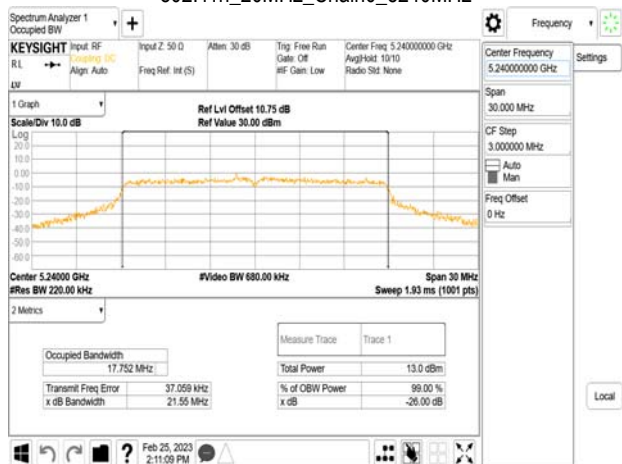
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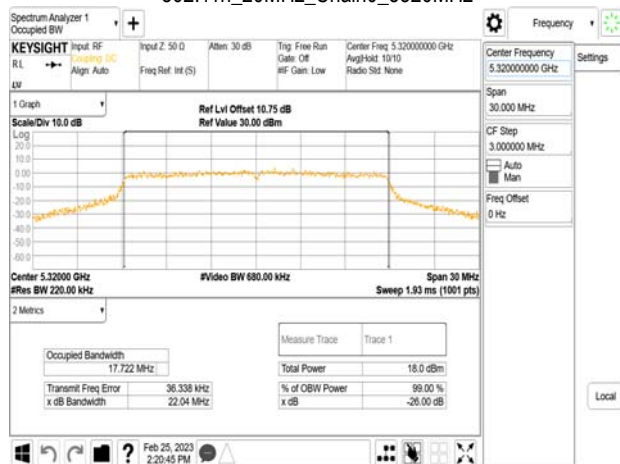
802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz

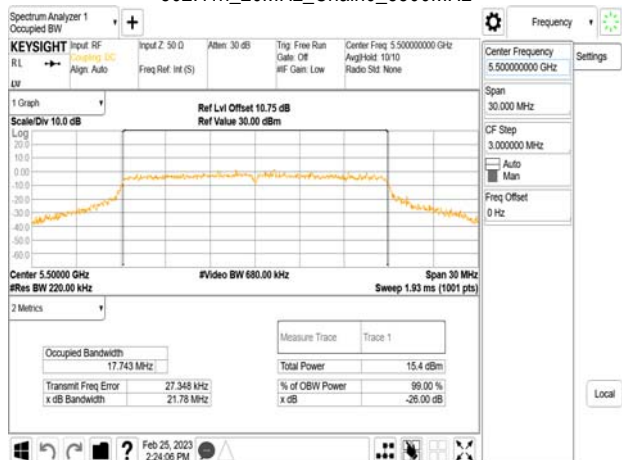


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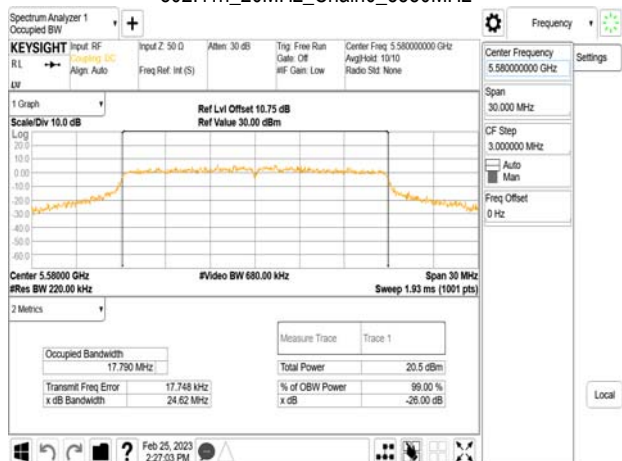
802.11n_20MHz_Chain0_5500MHz



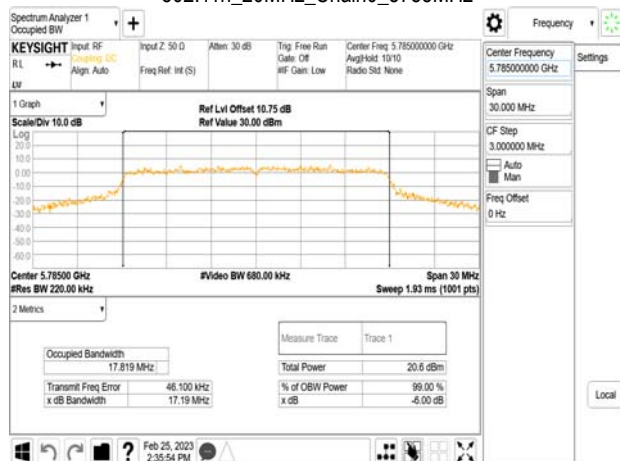
802.11n_20MHz_Chain0_5745MHz



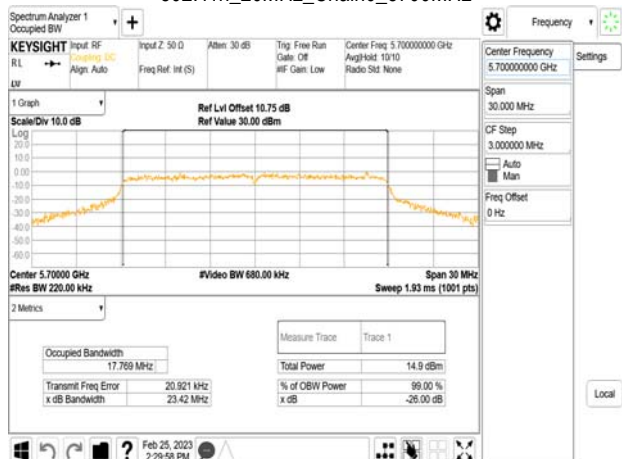
802.11n_20MHz_Chain0_5580MHz



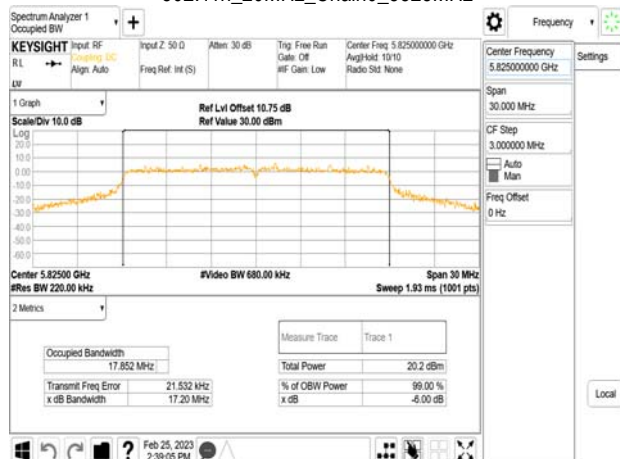
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5825MHz

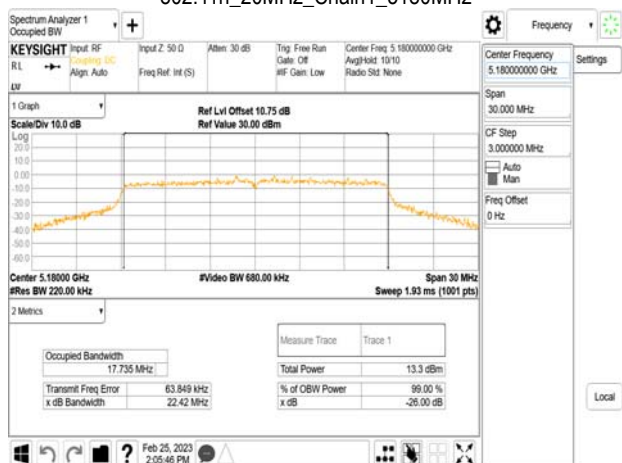


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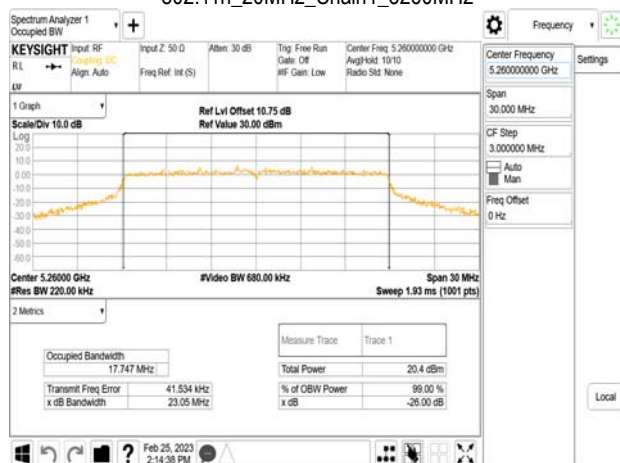
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802.11n_20MHz_Chain1_5180MHz



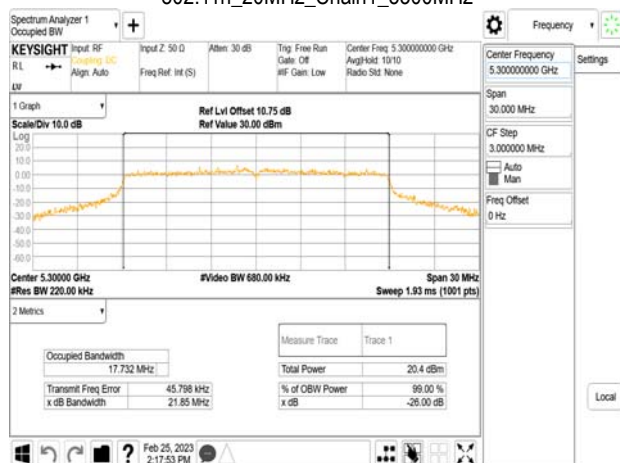
802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5220MHz



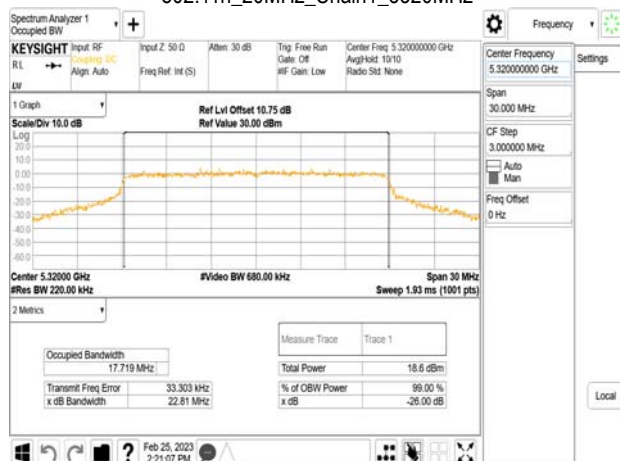
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz

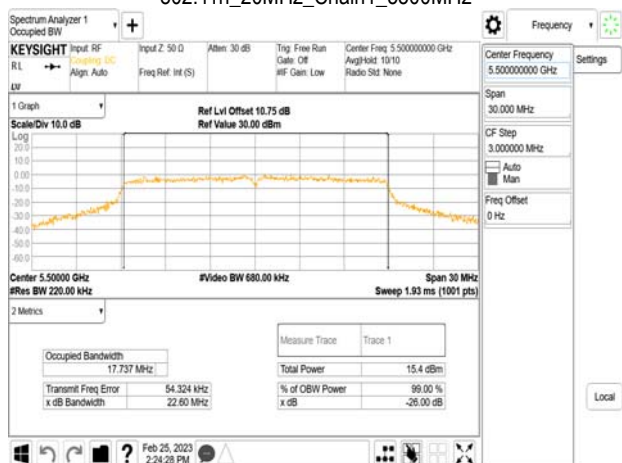


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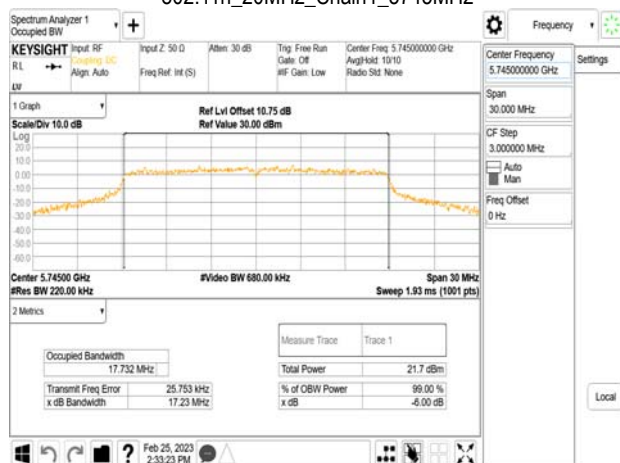
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802.11n_20MHz_Chain1_5500MHz



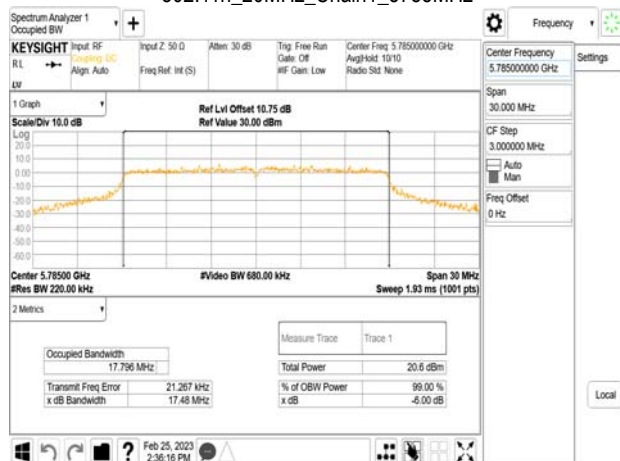
802.11n_20MHz_Chain1_5745MHz



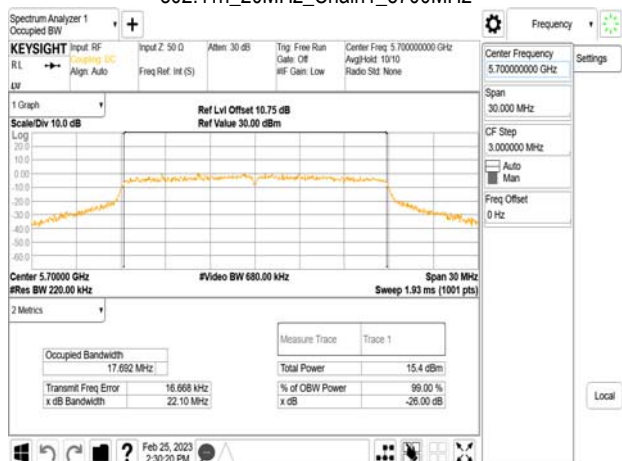
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz



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