

**ELEMENT WASHINGTON DC LLC**

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<http://www.element.com>**MEASUREMENT REPORT****FCC Part 15.407 / RSS-248 802.11ax/be WiFi 6E (OFDMA)****Applicant Name:**

Samsung Electronics Co., Ltd.  
129, Samsung-ro,  
Yeongtong-gu, Suwon-si  
Gyeonggi-do, 16677, Korea

**Date of Testing:**

02/24/2025 - 04/11/2025

**Test Report Issue Date:**

05/12/2025

**Test Site/Location:**

Element lab., Columbia, MD, USA

**Test Report Serial No.:**

1M2502210015-23-R1.A3L

**FCC ID:****A3LSMF966U****IC:****649E-SMF966W****APPLICANT:****Samsung Electronics Co., Ltd.****Application Type:**

Certification

**Model:**

SM-F966U

**HVIN:**

SM-F966W

**Additional Model(s):**

SM-F966U1

**EUT Type:**

Portable Handset

**Frequency Range:**

5935 – 7115MHz

**Modulation Type:**

OFDMA

**FCC Classification:**

15E 6GHz Low Power Dual Client (6CD)

**FCC Rule Part(s):**

Part 15 Subpart E (15.407)

**RSS Specification:**

RSS-248 Issue 3

**Test Procedure(s):**ANSI C63.10-2013, KDB 987594 D02 v03,  
KDB 648474 D03 v01r04,

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2502210015-23-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2502210015-23.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez  
Executive Vice President



|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 1 of 158                            |

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| Channel Bandwidth [MHz] | UNII Band | Tx Frequency [MHz] | Antenna-1       |                  | Antenna-2       |                  | MIMO            |                  |
|-------------------------|-----------|--------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
|                         |           |                    | Max. Power [mW] | Max. Power [dBm] | Max. Power [mW] | Max. Power [dBm] | Max. Power [mW] | Max. Power [dBm] |
| 20                      | 5         | 5935 - 6415        | 16.98           | 12.30            | 7.64            | 8.83             | 46.12           | 16.64            |
|                         | 6         | 6435 - 6515        | 2.18            | 3.39             | 0.88            | -0.55            | 6.01            | 7.79             |
|                         | 7         | 6535 - 6875        | 11.99           | 10.79            | 10.84           | 10.35            | 26.04           | 14.16            |
|                         | 8         | 6895 - 7115        | 2.69            | 4.30             | 4.08            | 6.11             | 12.70           | 11.04            |
| 40                      | 5         | 5965 - 6405        | 17.74           | 12.49            | 7.62            | 8.82             | 43.24           | 16.36            |
|                         | 6         | 6445 - 6525        | 3.71            | 5.69             | 1.55            | 1.91             | 9.72            | 9.88             |
|                         | 7         | 6565 - 6845        | 11.59           | 10.64            | 10.91           | 10.38            | 44.07           | 16.44            |
|                         | 8         | 6885 - 7085        | 4.34            | 6.37             | 6.38            | 8.05             | 20.63           | 13.14            |
| 80                      | 5         | 5985 - 6385        | 17.78           | 12.50            | 5.96            | 7.75             | 44.35           | 16.47            |
|                         | 6         | 6465               | 7.36            | 8.67             | 2.97            | 4.73             | 18.11           | 12.58            |
|                         | 7         | 6545 - 6865        | 11.59           | 10.64            | 9.12            | 9.60             | 42.12           | 16.24            |
|                         | 8         | 6945 - 7025        | 8.83            | 9.46             | 12.16           | 10.85            | 45.47           | 16.58            |
| 160                     | 5         | 6025 - 6345        | 14.13           | 11.50            | 6.27            | 7.97             | 37.53           | 15.74            |
|                         | 6         | 6505               | 7.59            | 8.80             | 3.32            | 5.21             | 18.91           | 12.77            |
|                         | 7         | 6665 - 6825        | 10.02           | 10.01            | 9.95            | 9.98             | 36.56           | 15.63            |
|                         | 8         | 6985               | 9.82            | 9.92             | 14.86           | 11.72            | 43.36           | 16.37            |
| 320                     | 5         | 6105 - 6265        | 11.22           | 10.50            | 4.91            | 6.91             | 31.05           | 14.92            |
|                         | 6         | 6425               | 6.11            | 7.86             | 2.65            | 4.23             | 15.40           | 11.88            |
|                         | 7         | 6585 - 6745        | 7.96            | 9.01             | 7.94            | 9.00             | 29.50           | 14.70            |
|                         | 8         | 6905               | 7.96            | 9.01             | 11.86           | 10.74            | 34.28           | 15.35            |

### EUT Overview - EIRP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
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## 1 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

### 1.2 Element Test Location

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

### 1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
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## 2 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Electronics Co., Ltd. Portable Handset FCC ID: A3LSMF966U**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band in dual-client (LPI+SP) mode.

**Test Device Serial No.:** 0080M, 0152M, 0167M, 0154M, 0125M, 0081M

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, 850/1900 GSM/GPRS/EDGE Multi-Band LTE, MultiBand 5G NR (FR1 and FR2), 802.11b/g/n/ac/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, UWB, NTN, SCS

| Band 5 |                 | Band 6 |                 | Band 7 |                 | Band 8 |                 |
|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|
| Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) |
| 2      | 5935            | 97     | 6435            | 117    | 6535            | 189    | 6895            |
| :      | :               | :      | :               | :      | :               | :      | :               |
| 45     | 6175            | 105    | 6475            | 149    | 6695            | 209    | 6995            |
| :      | :               | :      | :               | :      | :               | :      | :               |
| 93     | 6415            | 113    | 6515            | 185    | 6875            | 233    | 7115            |

Table 2-1. 802.11ax/be (20MHz) Frequency / Channel Operations

| Band 5 |                 | Band 6 |                 | Band 7 |                 | Band 8 |                 |
|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|
| Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) |
| 3      | 5965            | 99     | 6445            | 123    | 6565            | 187    | 6885            |
| :      | :               | :      | :               | :      | :               | :      | :               |
| 43     | 6165            | 107    | 6485            | 155    | 6725            | 211    | 7005            |
| :      | :               | :      | :               | :      | :               | :      | :               |
| 91     | 6405            | 115    | 6525            | 179    | 6845            | 227    | 7085            |

Table 2-2. 802.11ax/be (40MHz BW) Frequency / Channel Operations

| Band 5 |                 | Band 6 |                 | Band 7 |                 | Band 8 |                 |
|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|
| Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) |
| 7      | 5985            | 103    | 6465            | 119    | 6545            | 199    | 6945            |
| :      | :               |        |                 | :      | :               | :      | :               |
| 39     | 6145            |        |                 | 151    | 6705            | 215    | 7025            |
| :      | :               |        |                 | :      | :               |        |                 |
| 87     | 6385            |        |                 | 183    | 6865            |        |                 |

Table 2-3. 802.11ax/be (80MHz BW) Frequency / Channel Operations

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
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| Band 5 |                 | Band 6 |                 | Band 7 |                 | Band 8 |                 |
|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|
| Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) |
| 15     | 6025            | 111    | 6505            | 143    | 6665            | 207    | 6985            |
| :      | :               |        |                 | :      | :               |        |                 |
| 47     | 6185            |        |                 | 175    | 6825            |        |                 |
| :      | :               |        |                 |        |                 |        |                 |
| 79     | 6345            |        |                 |        |                 |        |                 |

**Table 2-4. 802.11ax/be (160MHz BW) Frequency / Channel Operations**

| Band 5 |                 | Band 6 |                 | Band 7 |                 | Band 8 |                 |
|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|
| Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) | Ch.    | Frequency (MHz) |
| 31     | 6105            | 95     | 6425            | 127    | 6585            | 191    | 6905            |
| 63     | 6265            |        |                 | 159    | 6745            |        |                 |

**Table 2-5. 802.11be (320MHz BW) Frequency / Channel Operations**

**Notes:**

- 6GHz NII operation is possible in 20MHz, 40MHz, 80MHz, 160MHz, and 320MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10-2013. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
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| Band | Bandwidth | Tone Type | Tone Size    | ANT1           |                    | ANT2           |                    | MIMO (1+2)     |                    |
|------|-----------|-----------|--------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|
|      |           |           |              | Duty Cycle [%] | Radiated DCCF [dB] | Duty Cycle [%] | Radiated DCCF [dB] | Duty Cycle [%] | Radiated DCCF [dB] |
| 6GHz | 20MHz     | RU        | 26T          | 99.50          | N/A                | 99.54          | N/A                | 98.56          | N/A                |
|      |           |           | 52T          | 99.54          | N/A                | 99.28          | N/A                | 99.11          | N/A                |
|      |           |           | 106T         | 99.08          | N/A                | 98.92          | N/A                | 98.56          | N/A                |
|      |           |           | 242T         | 98.33          | N/A                | 98.07          | N/A                | 98.74          | N/A                |
|      |           | MRU       | 52+26T       | 99.38          | N/A                | 99.38          | N/A                | 98.58          | N/A                |
|      |           |           | 106+26T      | 98.97          | N/A                | 98.93          | N/A                | 98.67          | N/A                |
|      | 40MHz     | RU        | 26T          | 99.43          | N/A                | 99.50          | N/A                | 98.31          | N/A                |
|      |           |           | 52T          | 99.50          | N/A                | 99.08          | N/A                | 98.98          | N/A                |
|      |           |           | 106T         | 99.16          | N/A                | 98.96          | N/A                | 98.10          | N/A                |
|      |           |           | 242T         | 98.33          | N/A                | 98.16          | N/A                | 98.84          | N/A                |
|      |           | MRU       | 484T         | 99.11          | N/A                | 99.06          | N/A                | 97.78          | 0.10               |
|      |           |           | 52+26T       | 99.26          | N/A                | 99.43          | N/A                | 99.41          | N/A                |
|      | 80MHz     | RU        | 106+26T      | 99.02          | N/A                | 98.24          | N/A                | 98.42          | N/A                |
|      |           |           | 26T          | 99.56          | N/A                | 99.17          | N/A                | 98.98          | N/A                |
|      |           |           | 52T          | 99.54          | N/A                | 98.82          | N/A                | 98.90          | N/A                |
|      |           |           | 106T         | 99.20          | N/A                | 99.04          | N/A                | 98.71          | N/A                |
|      |           |           | 242T         | 98.33          | N/A                | 98.24          | N/A                | 98.84          | N/A                |
|      |           |           | 484T         | 99.10          | N/A                | 99.01          | N/A                | 98.58          | N/A                |
|      |           | MRU       | 996T         | 98.02          | N/A                | 98.01          | N/A                | 97.08          | 0.13               |
|      |           |           | 52+26T       | 99.38          | N/A                | 99.37          | N/A                | 99.15          | N/A                |
|      |           |           | 106+26T      | 98.97          | N/A                | 98.93          | N/A                | 99.28          | N/A                |
|      |           |           | 484+242T     | 98.54          | N/A                | 98.61          | N/A                | 97.66          | 0.10               |
|      | 160MHz    | RU        | 26T          | 99.52          | N/A                | 99.39          | N/A                | 98.90          | N/A                |
|      |           |           | 52T          | 99.43          | N/A                | 99.42          | N/A                | 99.28          | N/A                |
|      |           |           | 106T         | 99.20          | N/A                | 99.00          | N/A                | 98.71          | N/A                |
|      |           |           | 242T         | 98.33          | N/A                | 98.16          | N/A                | 99.16          | N/A                |
|      |           |           | 484T         | 99.06          | N/A                | 99.06          | N/A                | 98.31          | N/A                |
|      |           |           | 996T         | 99.01          | N/A                | 98.11          | N/A                | 95.83          | 0.18               |
|      |           | MRU       | 2x996T       | 98.20          | N/A                | 98.10          | N/A                | 98.41          | N/A                |
|      |           |           | 52+26T       | 99.49          | N/A                | 99.39          | N/A                | 99.19          | N/A                |
|      |           |           | 106+26T      | 99.32          | N/A                | 99.34          | N/A                | 98.53          | N/A                |
|      |           |           | 484+242T     | 98.61          | N/A                | 98.54          | N/A                | 96.74          | 0.14               |
|      | 320MHz    | RU        | 996+484T     | 98.57          | N/A                | 98.49          | N/A                | 97.59          | 0.11               |
|      |           |           | 966+484+242T | 99.63          | N/A                | 99.56          | N/A                | 99.34          | N/A                |
|      |           |           | 26T          | 99.50          | N/A                | 99.35          | N/A                | 99.07          | N/A                |
|      |           |           | 52T          | 99.50          | N/A                | 99.48          | N/A                | 99.15          | N/A                |
|      |           |           | 106T         | 99.43          | N/A                | 99.04          | N/A                | 99.01          | N/A                |
|      |           |           | 242T         | 99.52          | N/A                | 98.16          | N/A                | 99.07          | N/A                |
|      |           |           | 484T         | 99.06          | N/A                | 98.96          | N/A                | 98.23          | N/A                |
|      |           | MRU       | 996T         | 98.11          | N/A                | 98.02          | N/A                | 98.14          | N/A                |
|      |           |           | 2x996T       | 98.38          | N/A                | 98.01          | N/A                | 98.22          | N/A                |
|      |           |           | 4x996T       | 99.05          | N/A                | 99.05          | N/A                | 98.23          | N/A                |
|      |           |           | 52+26T       | 99.28          | N/A                | 99.29          | N/A                | 99.19          | N/A                |
|      |           |           | 106+26T      | 98.97          | N/A                | 98.97          | N/A                | 99.15          | N/A                |
|      |           |           | 484+242T     | 99.35          | N/A                | 99.32          | N/A                | 98.70          | N/A                |
|      |           |           | 996+484T     | 98.42          | N/A                | 98.64          | N/A                | 98.65          | N/A                |
|      |           |           | 966+484+242T | 97.11          | 0.13               | 97.20          | 0.12               | 97.46          | 0.11               |
|      |           |           | 2x996+484T   | 96.08          | 0.17               | 98.66          | N/A                | 97.83          | 0.10               |
|      |           |           | 3x996T       | 97.40          | 0.11               | 98.54          | N/A                | 98.63          | N/A                |
|      |           |           | 3x996+484T   | 97.03          | 0.13               | 98.24          | N/A                | 98.35          | N/A                |

**Table 2-6. Measured Duty Cycles**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 8 of 158                            |

2. The device employs MIMO technology. Below are the possible configurations.

| WiFi Configurations |      | SISO |      | CDD  |      | SDM  |      |
|---------------------|------|------|------|------|------|------|------|
|                     |      | ANT1 | ANT2 | ANT1 | ANT2 | ANT1 | ANT2 |
| 6 GHz               | 11ax | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |
|                     | 11be | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |

**Table 2-7. Frequency / Channel Operations**

✓ = Support; ✕ = NOT Support

**SISO** = Single Input Single Output

**SDM** = Spatial Diversity Multiplexing – MIMO function

**CDD** = Cyclic Delay Diversity - 2Tx Function

3. The device supports the following data rates (shown in Mbps):

| MCS Index | Spatial Stream | OFDMA (802.11ax) |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | OFDMA (802.11be) |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
|-----------|----------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|-------|--|--|--|--|--|--------|--|--|--|--|--|
|           |                | 26T              |          |          |          |          |          | 52T      |          |          |          |          |          | 106T     |          |          |          |          |          | 242T     |          |          |          |          |          | 484T             |          |          |          |          |          | 996T     |          |          |  |  |  | 1996T |  |  |  |  |  | 4x996T |  |  |  |  |  |
|           |                | 0.8µs GI         | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI         | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI | 0.8µs GI | 1.6µs GI | 3.2µs GI |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 0         | 1              | 0.9              | 0.8      | 0.8      | 1.8      | 1.7      | 1.5      | 3.8      | 3.5      | 3.2      | 8.6      | 8.1      | 7.3      | 17.2     | 16.3     | 14.6     | 36       | 34       | 30.6     | 72.1     | 68.1     | 61.3     | 144.1    | 136.1    | 122.5    |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 1         | 1              | 1.8              | 1.7      | 1.5      | 3.5      | 3.3      | 3        | 7.5      | 7.1      | 6.4      | 17.2     | 16.3     | 14.6     | 34.4     | 32.5     | 29.3     | 72.1     | 68.1     | 61.3     | 144.1    | 136.1    | 122.5    | 288.2    | 272.2    | 245      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 2         | 1              | 2.6              | 2.5      | 2.3      | 5.3      | 5        | 4.5      | 11.3     | 10.6     | 9.6      | 25.8     | 24.4     | 21.9     | 51.6     | 48.8     | 43.9     | 108.1    | 102.1    | 91.9     | 216.2    | 204.2    | 183.8    | 432.4    | 408.3    | 367.5    |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 3         | 1              | 3.5              | 3.3      | 3        | 7.1      | 6.7      | 6        | 15       | 14.2     | 12.8     | 34.4     | 32.5     | 29.3     | 68.8     | 65       | 58.5     | 144.1    | 136.1    | 122.5    | 288.2    | 272.2    | 245      | 576.5    | 544.4    | 490      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 4         | 1              | 5.3              | 5        | 4.5      | 10.6     | 10       | 9        | 22.5     | 21.3     | 19.1     | 51.6     | 48.8     | 43.9     | 103.2    | 97.5     | 87.8     | 216.2    | 204.2    | 183.8    | 432.4    | 408.3    | 367.5    | 864.7    | 816.7    | 735      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 5         | 1              | 7.1              | 6.7      | 6        | 14.1     | 13.3     | 12       | 30       | 28.3     | 25.5     | 68.8     | 65       | 58.5     | 137.6    | 130      | 117      | 288.2    | 272.2    | 245      | 576.5    | 544.4    | 490      | 1152.9   | 1088.9   | 980      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 6         | 1              | 7.9              | 7.5      | 6.8      | 15.9     | 15       | 13.5     | 33.8     | 31.9     | 28.7     | 77.4     | 73.1     | 65.8     | 154.9    | 146.3    | 131.6    | 324.3    | 306.3    | 275.6    | 648.5    | 612.5    | 551.3    | 1297.1   | 1225     | 1102.5   |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 7         | 1              | 8.8              | 8.3      | 7.5      | 17.6     | 16.7     | 15       | 37.5     | 35.4     | 31.9     | 86       | 81.3     | 73.1     | 172.1    | 162.5    | 146.3    | 360.3    | 340.3    | 306.3    | 720.6    | 680.6    | 612.5    | 1441.2   | 1361.1   | 1225     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 8         | 1              | 10.6             | 10       | 9        | 21.2     | 20       | 18       | 45       | 42.5     | 38.3     | 103.2    | 97.5     | 87.8     | 206.5    | 195      | 175.5    | 432.4    | 408.3    | 367.5    | 864.7    | 816.7    | 735      | 1729.4   | 1633.3   | 1470     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 9         | 1              | 11.8             | 11.1     | 10       | 23.5     | 22.2     | 20       | 50       | 47.2     | 42.5     | 114.7    | 108.3    | 97.5     | 229.4    | 216.7    | 195      | 480.4    | 453.7    | 408.3    | 960.8    | 907.4    | 816.7    | 1921.6   | 1814.8   | 1633.3   |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 10        | 1              | 13.2             | 12.5     | 11.3     | 26.5     | 25       | 22.5     | 56.3     | 53.1     | 47.8     | 129      | 121.9    | 109.7    | 258.1    | 243.8    | 219.4    | 540.4    | 510.4    | 459.4    | 1080.9   | 1020.8   | 918.8    | 2161.8   | 2041.7   | 1837.5   |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 11        | 1              | 14.7             | 13.9     | 12.5     | 29.4     | 27.8     | 25       | 62.5     | 59       | 53.1     | 143.4    | 135.4    | 121.9    | 286.8    | 270.8    | 243.8    | 600.5    | 567.1    | 510.4    | 1201     | 1134.3   | 1020.8   | 2402     | 2268.5   | 2041.7   |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 0         | 2              | 1.8              | 1.7      | 1.5      | 3.5      | 3.3      | 3        | 7.5      | 7.1      | 6.4      | 17.2     | 16.3     | 14.6     | 34.4     | 32.5     | 29.3     | 72.1     | 68.1     | 61.3     | 144.1    | 136.1    | 122.5    | 288.2    | 272.2    | 245      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 1         | 2              | 3.5              | 3.3      | 3        | 7.1      | 6.7      | 6        | 15       | 14.2     | 12.8     | 34.4     | 32.5     | 29.3     | 68.8     | 65       | 58.5     | 144.1    | 136.1    | 122.5    | 288.2    | 272.2    | 245      | 576.5    | 544.4    | 490      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 2         | 2              | 5.3              | 5        | 4.5      | 10.6     | 10       | 9        | 22.5     | 21.3     | 19.1     | 51.6     | 48.8     | 43.9     | 103.2    | 97.5     | 87.8     | 216.2    | 204.2    | 183.8    | 432.4    | 408.3    | 367.5    | 864.7    | 816.7    | 735      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 3         | 2              | 7.1              | 6.7      | 6        | 14.1     | 13.3     | 12       | 30       | 28.3     | 25.5     | 68.8     | 65       | 58.5     | 137.6    | 130      | 117      | 288.2    | 272.2    | 245      | 576.5    | 544.4    | 490      | 1152.9   | 1088.9   | 980      |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 4         | 2              | 10.6             | 10       | 9        | 21.2     | 20       | 18       | 45       | 42.5     | 38.3     | 103.2    | 97.5     | 87.8     | 206.5    | 195      | 175.5    | 432.4    | 408.3    | 367.5    | 864.7    | 816.7    | 735      | 1729.4   | 1633.3   | 1470     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 5         | 2              | 14.1             | 13.3     | 12       | 28.2     | 26.7     | 24       | 60       | 56.7     | 51       | 137.6    | 130      | 117      | 275.3    | 260      | 234      | 576.5    | 544.4    | 490      | 1152.9   | 1088.9   | 980      | 2305.9   | 2177.8   | 1960     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 6         | 2              | 15.9             | 15       | 13.5     | 31.8     | 30       | 27       | 67.5     | 63.8     | 57.4     | 154.9    | 146.3    | 131.6    | 309.7    | 292.5    | 263.3    | 648.5    | 612.5    | 551.3    | 1297.1   | 1225     | 1102.5   | 2594.1   | 2450     | 2205     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 7         | 2              | 17.6             | 16.7     | 15       | 35.3     | 33.3     | 30       | 75       | 70.8     | 63.8     | 172.1    | 162.5    | 146.3    | 344.1    | 325      | 292.5    | 720.6    | 680.6    | 612.5    | 1441.2   | 1361.1   | 1225     | 2882.4   | 2722.2   | 2450     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 8         | 2              | 21.2             | 20       | 18       | 42.4     | 40       | 36       | 90       | 85       | 76.5     | 206.5    | 195      | 175.5    | 412.9    | 390      | 351      | 864.7    | 816.7    | 735      | 1729.4   | 1633.3   | 1470     | 3458.8   | 3266.7   | 2940     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 9         | 2              | 23.5             | 22.2     | 20       | 47.1     | 44.4     | 40       | 100      | 94.4     | 85       | 229.4    | 216.7    | 195      | 458.8    | 433.3    | 390      | 960.8    | 907.4    | 816.7    | 1921.6   | 1814.8   | 1633.3   | 3843.1   | 3629.6   | 3266.7   |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 10        | 2              | 26.5             | 25       | 22.5     | 52.9     | 50       | 45       | 112.5    | 106.3    | 95.6     | 258.1    | 243.8    | 219.4    | 516.2    | 487.5    | 438.8    | 1080.9   | 1020.8   | 918.8    | 2161.8   | 2041.7   | 1837.5   | 4323.5   | 4083.3   | 3675     |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |
| 11        | 2              | 29.4             | 27.8     | 25       | 58.8     | 55.6     | 50       | 125      | 118.1    | 106.3    | 286.8    | 270.8    | 243.8    | 573.5    | 541.7    | 487.5    | 1201     | 1134.3   | 1020.8   | 2402     | 2268.5   | 2041.7   | 4803.9   | 4537     | 4083.3   |                  |          |          |          |          |          |          |          |          |  |  |  |       |  |  |  |  |  |        |  |  |  |  |  |

**Table 2-8. Supported Data Rates**

4. The device supports either Standard Power (SP) or Low Power Indoor (LPI) operation in the following UNII bands:

| UNII Band | Standard Power (SP) | Low Power Indoor (LPI) | Very Low Power (VLP) |
|-----------|---------------------|------------------------|----------------------|
| UNII 5    | ✓                   | ✓                      | ✓                    |
| UNII 6    | ✕                   | ✓                      | ✕                    |
| UNII 7    | ✓                   | ✓                      | ✓                    |
| UNII 8    | ✕                   | ✓                      | ✕                    |

**Table 2-9. Power Operation**

✓ = Support; ✕ = NOT Support

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 9 of 158                            |

## 2.3 Antenna Description

The following antenna gains were used for the testing.

| Frequency | Ant1<br>Peak Gain<br>[dBi] | Ant2<br>Peak Gain<br>[dBi] |
|-----------|----------------------------|----------------------------|
| 5925 MHz  | -4.49                      | -8.02                      |
| 6025 MHz  | -4.57                      | -8.11                      |
| 6125 MHz  | -5.31                      | -9.35                      |
| 6225 MHz  | -6.77                      | -10.79                     |
| 6325 MHz  | -6.24                      | -10.79                     |
| 6425 MHz  | -7.19                      | -10.74                     |
| 6525 MHz  | -7.13                      | -11.08                     |
| 6625MHz   | -7.79                      | -9.93                      |
| 6725MHz   | -7.35                      | -8.6                       |
| 6825MHz   | -7.43                      | -6.59                      |
| 6925MHz   | -5.98                      | -5.99                      |
| 7025MHz   | -6.15                      | -4.99                      |
| 7125MHz   | -6.53                      | -4.25                      |

**Table 2-10 Antenna Peak Gain per Frequency**

|                 | Ant1<br>Peak Gain<br>[dBi] | Ant2<br>Peak Gain<br>[dBi] | Directional<br>Gain [dBi] |
|-----------------|----------------------------|----------------------------|---------------------------|
| 5925 – 6425 MHz | -4.49                      | -8.02                      | -3.07                     |
| 6425 – 6525 MHz | -7.13                      | -10.74                     | -5.74                     |
| 6525 – 6875 MHz | -5.98                      | -5.99                      | -2.97                     |
| 6875 – 7125 MHz | -5.98                      | -4.25                      | -2.06                     |

**Table 2-11. Antenna Peak Gain**

## 2.4 Test Configuration

ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5 and 7.6 for antenna port conducted emissions test setups.

This device operates in the 5.925-7.125 GHz band when under control of an indoor access point. Additionally, the device may operate in the 5.925-6.425 GHz and 6.525-6.875 GHz bands when under control of a standard power access point. Power for the EUT may vary depending on whether the device is connected to a standard access point (SP Operation) or a low-power indoor access point (LPI Operation). In cases where these targets differ two data sets have been provided to demonstrate compliance. The worst-case emissions data is shown in this report.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: NQ-WC-06 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

This device supports three folder configurations: one is with folder fully open, one is where the folder is half open (90 degrees), and one is with folder closed. All configurations are tested, and the worst case radiated emissions data is shown in this report.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 10 of 158                           |



## 2.5 Software and Firmware

The test was conducted with firmware version FAV0\_F966UFAU0AYB3 installed on the EUT.

## 2.6 EMI Suppression Device(s) / Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
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| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 11 of 158                           |

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### 3 DESCRIPTION OF TESTS

#### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 987594 D02 v03 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

#### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1-meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 12 of 158                           |

### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3-meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 13 of 158                           |

## 4 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

### Conclusion:

The EUT complies with the requirement of §15.203.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 14 of 158                           |

## 5 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution                                     | Expanded Uncertainty ( $\pm$ dB) |
|--------------------------------------------------|----------------------------------|
| Contention Based Protocol Conducted Measurements | 0.86                             |
| Conducted Bench Top Measurements                 | 1.13                             |
| Line Conducted Disturbance                       | 3.09                             |
| Radiated Disturbance (<1GHz)                     | 4.98                             |
| Radiated Disturbance (>1GHz)                     | 5.07                             |
| Radiated Disturbance (>18GHz)                    | 5.09                             |

**Table 5-1. Measurement Uncertainty Budget**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 15 of 158                           |

## 6 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

| Manufacturer          | Model       | Description                    | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|-----------------------|-------------|--------------------------------|------------|--------------|------------|---------------|
| -                     | WL25-1      | Conducted Cable Set (25GHz)    | 2/25/2025  | Annual       | 2/25/2026  | WL25-1        |
| -                     | WL25-2      | Conducted Cable Set (25GHz)    | 2/25/2025  | Annual       | 2/25/2026  | WL25-2        |
| -                     | WL40-1      | Conducted Cable Set (40GHz)    | 2/25/2025  | Annual       | 2/25/2026  | WL40-1        |
| -                     | MD 1M 18-40 | EMC Cable and Switch System    | 2/25/2025  | Annual       | 2/25/2026  | MD 1M 18-40   |
| -                     | AP2-001     | EMC Cable and Switch System    | 2/25/2025  | Annual       | 2/25/2026  | AP2-001       |
| -                     | ETS-001     | EMC Cable and Switch System    | 2/25/2025  | Annual       | 2/25/2026  | ETS-001       |
| Agilent               | N9038A      | MXE EMI Receiver               | 9/16/2024  | Annual       | 9/16/2025  | MY51210133    |
| Agilent               | N9020A      | MXA Signal Analyzer            | 3/22/2024  | Annual       | 3/22/2025  | US46470561    |
| Agilent               | N9030A      | PXA Signal Analyzer (44GHz)    | 10/16/2024 | Annual       | 10/16/2025 | MY49430494    |
| Anritsu               | MA24408A    | Microwave Peak Power Sensor    | 5/21/2024  | Annual       | 5/21/2025  | 11675         |
| Anritsu               | MA24408A    | Microwave Peak Power Sensor    | 4/10/2024  | Annual       | 4/10/2025  | 12798         |
| EMCO                  | 3115        | Horn Antenna (1-18GHz)         | 9/6/2024   | Biennial     | 9/6/2025   | 9704-5182     |
| EMCO                  | 3116        | Horn Antenna (18-40GHz)        | 7/5/2023   | Biennial     | 7/5/2025   | 9203-2178     |
| ETS-Lindgren          | 3116C       | Horn Antenna (18-40GHz)        | 2/27/2023  | Biennial     | 2/27/2025  | 218893        |
| Keysight Technologies | N9030A      | PXA Signal Analyzer (44GHz)    | 4/9/2024   | Annual       | 4/9/2025   | MY52350166    |
| Keysight Technologies | N9020A      | MXA Signal Analyzer            | 4/11/2024  | Annual       | 4/11/2025  | MY54500644    |
| Keysight Technologies | N9030A      | PXA Signal Analyzer            | 2/29/2024  | Annual       | 3/1/2025   | MY55410501    |
| Keysight Technologies | N9030B      | PXA Signal Analyzer            | 9/19/2024  | Annual       | 9/19/2025  | MY57141001    |
| Pasternack            | NMLC-2      | Line Conducted Emissions Cable | 4/2/2024   | Annual       | 4/2/2025   | NMLC-2        |
| Rohde & Schwarz       | TC-TA18     | Vivaldi Antenna                | 4/15/2024  | Biennial     | 4/15/2026  | 101058        |
| Rohde & Schwarz       | FSW26       | Spectrum Analyzer (26.5GHz)    | 3/8/2024   | Annual       | 3/8/2025   | 103187        |
| Rohde & Schwarz       | ESU26       | EMI Test Receiver (26.5GHz)    | 10/16/2024 | Annual       | 10/16/2025 | 100342        |
| Rohde & Schwarz       | ESU40       | EMI Test Receiver (40GHz)      | 11/25/2024 | Annual       | 11/25/2025 | 100348        |
| Rohde & Schwarz       | ENV216      | Two-Line V-Network             | 4/24/2024  | Biennial     | 4/24/2025  | 101379        |
| Rohde & Schwarz       | ESW44       | EMI Test Receiver (44GHz)      | 4/5/2024   | Annual       | 4/5/2025   | 101716        |
| Rohde & Schwarz       | SMW200A     | Vector Signal Generator        | 4/4/2024   | Annual       | 4/4/2025   | 109456        |
| Rohde & Schwarz       | ESW44       | EMI Test Receiver (44GHz)      | 4/5/2024   | Annual       | 4/5/2025   | 101716        |
| Rohde & Schwarz       | CMX500      | 5G Radio Communication Tester  | N/A        |              |            | 101202        |
| Sunol                 | JB6         | Bi-Log Antenna (20M-6GHz)      | 3/2/2023   | Biennial     | 3/2/2025   | A082816       |
| Sunol                 | JB5         | Bi-Log Antenna (20M-5GHz)      | 9/11/2024  | Biennial     | 9/11/2026  | A051107       |

**Table 6-1. Test Equipment Calibration Table**

### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 16 of 158                    |

| Component                          | Serial Number |
|------------------------------------|---------------|
| MegaPhase Cable TM26-S1S1-36       | 18160103 003  |
| Pasternack 6dB Attenuator PE7005-6 | N/A           |

**Table 6-2. WL25-1 Conducted Cable Set Components**

| Component                        | Serial Number |
|----------------------------------|---------------|
| MiniCircuits Cable CBL-2FT-SMSM+ | 77743         |
| MCL 6dB Attenuator BW-S6W2+      | 1314          |

**Table 6-3. WL25-2 Conducted Cable Set Components**

| Component                        | Serial Number |
|----------------------------------|---------------|
| MegaPhase Cable TM40K1K1-36      | 18160102 001  |
| MCL 10dB Attenuator BW-K10 2W44+ | 1902          |

**Table 6-4. WL40-1 Conducted Cable Set Components**

| Component               | Serial Number |
|-------------------------|---------------|
| Pasternak Cable RG214/U | 111815        |
| Sucoflex Cable 106A     | 246420-001    |
| Rohde & Schwarz SF Unit | 102134        |

**Table 6-5. ETS-001 EMC Cable and Switch System Components**

| Component                                                | Serial Number |
|----------------------------------------------------------|---------------|
| MiniCircuits Cable CBL-0.5M-SMNM+                        | 47261         |
| Micro-Coax Utiflex Cable UFB311A-Q-3346-50U50U MFR 64639 | 231978-001    |
| Micro-Coax Utiflex Cable UFB311A-1-0629-50U50U MFR 64639 | 231986-002    |
| MegaPhase Cable NC29-N1N1-324                            | 19046401 001  |
| MegaPhase Flex Cable 10511-1                             | 15044701-006  |
| Micro-Coax Utiflex Cable UFB311A-Q-3446-50U50U MFR 64639 | 231978-002    |
| Micro-Coax Utiflex Cable UFB311A-1-0629-50U50U MFR 64639 | 231986-001    |
| Micro-Coax Utiflex Cable UFB142A-0-0659-50U50U MFR 64639 | 232069-001    |
| Rohde & Schwarz SF Unit                                  | 102138        |

**Table 6-6. AP2-001 EMC Cable and Switch System Components**

| Component                                 | Serial Number    |
|-------------------------------------------|------------------|
| MegaPhase Cable TM40-K1K1-30              | 20233002-004     |
| UTIPLEX Cable                             | 64639 232063-001 |
| Rohde & Schwarz Pre-amp RS-PR1840 18G-40G | 9037.7670.02     |

**Table 6-7. MD 1M 18-40 EMC Cable and Switch System Components**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 17 of 158                           |

## 7 TEST RESULTS

### 7.1 Summary

Company Name: Samsung Electronics Co., Ltd.  
 FCC ID: A3LSMF966U  
 IC: 649E-SMF966W  
 FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

| FCC Part Section(s)        | RSS Section(s)  | Test Description                                                              | Test Limit                                                                                                                                                                                                                                            | Test Condition | Test Result | Reference                  |
|----------------------------|-----------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------------------------|
| 2.1046, 15.407(a)(12)      | RSS-248(4.5)    | Maximum Conducted Output Power                                                | N/A                                                                                                                                                                                                                                                   | CONDUCTED      | PASS        | Section 7.3                |
| 15.407(a)(8), 15.407(a)(7) | RSS-248(4.5)    | Maximum Radiated Output Power                                                 | < 24dBm over the frequency band of operation<br><30dBm over the frequency band of operation when connecting to a standard power access point                                                                                                          |                | PASS        | Section 7.3                |
| 2.1049, 15.407(a)(11)      | RSS-248(4.4)    | Occupied Bandwidth/ 26dB Bandwidth                                            | 99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands<br><br>The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.                         |                | PASS        | Section 7.2                |
| 15.407(a)(8), 15.407(a)(7) | RSS-248(4.5)    | Maximum Power Spectral Density                                                | < -1dBm/MHz e.i.r.p.<br><17dBm/MHz when operating with a standard power access point                                                                                                                                                                  |                | PASS        | Section 7.4                |
| 15.407(b)(7)               | RSS-248(4.6)    | In-Band Emissions                                                             | EUT must meet the limits detailed in 15.407(b)(6)                                                                                                                                                                                                     |                | PASS        | Section 7.5                |
| 15.407(d)(6)               | RSS-248(4.7)    | Contention Based Protocol                                                     | EUT must detect AWGN signal with 90% (or better) certainty                                                                                                                                                                                            | RADIATED       | PASS        | Please see 6CD OFDM report |
| 15.407(a)(7)               | RSS-248 [4.5.5] | Power Reduction Verification for standard client device                       | EUT must limit its power to no more than 6dB below its associated standard power access point's authorized transmit power.<br><br>EUT must distinguish its associated access point as standard or low power and control its power levels accordingly. |                | PASS        | Please see 6CD OFDM report |
| 15.407(b)(6)               | RSS-248(4.6)    | Undesirable Emissions                                                         | < -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band                                                                                                                                                                                            |                | PASS        | Section 7.6                |
| 15.205, 15.209             | RSS-Gen (8.9)   | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | Emissions in restricted bands must meet the radiated limits detailed in 15.209                                                                                                                                                                        |                | PASS        | Section 7.6                |
| 15.407                     | RSS-Gen (8.8)   | AC Conducted Emissions 150kHz – 30MHz                                         | <FCC 15.207 limits                                                                                                                                                                                                                                    | LINE CONDUCTED | PASS        | Please see 6CD OFDM report |

**Table 7-1. Summary of Test Results**

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 18 of 158                    |

**Notes:**

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "EMC Software Tool" Version 2.3.0.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.6.1.
- 6) Per 15.407(a)(7), a device operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands must not have the maximum power spectral density exceed 17 dBm/MHz e.i.r.p., must limit the maximum e.i.r.p. over the frequency band of operation not exceed 30 dBm, and must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- 7) 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- 8) Only one RU index could be selected at a time, so no contiguous or non-contiguous RUs were considered for testing.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 19 of 158                           |

## 7.2 26dB Bandwidth Measurement

### Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

### Test Procedure Used

ANSI C63.10-2013 – Section 12.4

### Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 26$ . The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth
3.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-1. Test Instrument & Measurement Setup**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 20 of 158                           |

### **Test Notes**

1. All cases were investigated; a subset of the taken plots were included to represent relevant settings and measurements.
2. In this section, the bandwidth data tables includes mainly the 26dB bandwidth measurements. In case of 320MHz operation, an occupied bandwidth measurement was included in the table to demonstrate compliance. Thus, all measurements in the tables are 26dB bandwidth measurements except for the 320MHz bandwidth cases which are occupied bandwidth measurements.
3. SP 80/160/320MHz BW share same target as LPI 80/160/320MHz BW, and only the emissions from worst case have been reported

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 21 of 158                           |

|            | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 26dB Bandwidth [MHz] | Antenna-2 26dB Bandwidth [MHz] | Antenna-1 Occupied Bandwidth [MHz] | Antenna-2 Occupied Bandwidth [MHz] |
|------------|-----------------|---------|-------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|
| Band 5     | 5935            | 2       | be (20MHz)  | 18.52                          | 18.22                          | 16.86                              | 17.21                              |
|            | 6175            | 45      | be (20MHz)  | 18.46                          | 18.32                          | 17.05                              | 17.32                              |
|            | 6415            | 93      | be (20MHz)  | 18.39                          | 17.75                          | 17.12                              | 16.97                              |
|            | 5965            | 3       | be (40MHz)  | 24.61                          | 25.07                          | 22.40                              | 24.75                              |
|            | 6165            | 43      | be (40MHz)  | 23.16                          | 23.63                          | 21.19                              | 25.91                              |
|            | 6405            | 91      | be (40MHz)  | 23.39                          | 24.18                          | 21.83                              | 27.00                              |
|            | 5985            | 7       | be (80MHz)  | 33.83                          | 33.73                          | 34.57                              | 73.97                              |
|            | 6145            | 39      | be (80MHz)  | 35.14                          | 33.81                          | 31.04                              | 61.19                              |
|            | 6385            | 87      | be (80MHz)  | 35.57                          | 33.75                          | 32.73                              | 81.01                              |
|            | 6025            | 15      | be (160MHz) | 32.48                          | 33.68                          | 83.72                              | 30.75                              |
|            | 6185            | 47      | be (160MHz) | 38.44                          | 31.24                          | 93.81                              | 28.04                              |
|            | 6345            | 79      | be (160MHz) | 38.89                          | 47.23                          | 33.41                              | 32.03                              |
|            | 6105            | 31      | be (320MHz) | 48.18                          | 44.25                          | 42.55                              | 47.65                              |
|            | 6265            | 63      | be (320MHz) | 48.28                          | 40.50                          | 42.30                              | 40.70                              |
| Band 6     | 6435            | 97      | be (20MHz)  | 17.93                          | 18.33                          | 16.93                              | 17.25                              |
|            | 6475            | 105     | be (20MHz)  | 18.55                          | 18.38                          | 16.33                              | 17.31                              |
|            | 6515            | 113     | be (20MHz)  | 18.27                          | 18.35                          | 17.07                              | 17.20                              |
|            | 6445            | 99      | be (40MHz)  | 22.77                          | 24.40                          | 21.46                              | 25.40                              |
|            | 6485            | 107     | be (40MHz)  | 23.86                          | 24.46                          | 22.98                              | 24.80                              |
|            | 6525            | 115     | be (40MHz)  | 24.25                          | 24.61                          | 22.19                              | 24.31                              |
|            | 6465            | 103     | be (80MHz)  | 35.92                          | 35.29                          | 31.44                              | 72.67                              |
|            | 6505            | 111     | be (160MHz) | 37.43                          | 30.70                          | 30.34                              | 28.76                              |
| Band 5/6/7 | 6425            | 95      | be (320MHz) | 36.49                          | 34.16                          | 35.29                              | 36.28                              |
| Band 7     | 6695            | 117     | be (20MHz)  | 18.31                          | 17.77                          | 17.08                              | 16.90                              |
|            | 6695            | 149     | be (20MHz)  | 18.26                          | 18.40                          | 16.55                              | 17.13                              |
|            | 6875            | 185     | be (20MHz)  | 18.39                          | 18.36                          | 17.20                              | 17.40                              |
|            | 6565            | 123     | be (40MHz)  | 24.05                          | 24.77                          | 22.15                              | 24.73                              |
|            | 6685            | 155     | be (40MHz)  | 23.67                          | 25.41                          | 21.63                              | 24.31                              |
|            | 6845            | 179     | be (40MHz)  | 23.79                          | 25.30                          | 21.38                              | 24.58                              |
|            | 6545            | 119     | be (80MHz)  | 34.46                          | 34.92                          | 36.01                              | 75.68                              |
|            | 6705            | 151     | be (80MHz)  | 30.87                          | 35.84                          | 31.67                              | 69.80                              |
|            | 6865            | 183     | be (80MHz)  | 35.71                          | 35.95                          | 33.32                              | 67.24                              |
|            | 6665            | 143     | be (160MHz) | 37.32                          | 36.51                          | 30.10                              | 33.61                              |
| Band 6/7   | 6825            | 175     | be (160MHz) | 37.80                          | 29.74                          | 32.08                              | 27.52                              |
| Band 7/8   | 6585            | 127     | be (320MHz) | 45.42                          | 41.06                          | 40.73                              | 37.91                              |
| Band 8     | 6745            | 159     | be (320MHz) | 47.77                          | 45.22                          | 45.35                              | 36.43                              |
|            | 7115            | 189     | be (20MHz)  | 18.71                          | 18.42                          | 16.92                              | 17.20                              |
|            | 6995            | 209     | be (20MHz)  | 18.41                          | 18.55                          | 17.05                              | 17.35                              |
|            | 7115            | 233     | be (20MHz)  | 18.46                          | 18.12                          | 17.32                              | 17.05                              |
|            | 6885            | 187     | be (40MHz)  | 23.34                          | 23.60                          | 21.77                              | 26.91                              |
|            | 6965            | 211     | be (40MHz)  | 23.97                          | 24.61                          | 21.74                              | 22.85                              |
|            | 7085            | 227     | be (40MHz)  | 24.13                          | 24.38                          | 22.27                              | 23.55                              |
|            | 6945            | 199     | be (80MHz)  | 28.55                          | 32.80                          | 28.20                              | 68.40                              |
|            | 7025            | 215     | be (80MHz)  | 28.77                          | 36.48                          | 29.36                              | 62.95                              |
|            | 6985            | 207     | be (160MHz) | 39.47                          | 37.02                          | 30.87                              | 32.47                              |
| Band 7/8   | 6905            | 191     | be (320MHz) | 38.92                          | 46.85                          | 43.54                              | 37.77                              |

**Table 7-2. 26dB Bandwidth Results – 26 Tones – LPI**

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 22 of 158                    |

|            | Frequency [MHz] | Channel | 802.11 MODE | MRU Configuration | Antenna-1 26dB Bandwidth [MHz] | Antenna-2 26dB Bandwidth [MHz] | Antenna-1 Occupied Bandwidth [MHz] | Antenna-2 Occupied Bandwidth [MHz] |
|------------|-----------------|---------|-------------|-------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|
| Band 5     | 6145            | 45      | be (20MHz)  | 52+26T            | 18.36                          | 19.05                          | 16.40                              | 17.24                              |
|            | 6175            | 45      | be (20MHz)  | 106+26T           | 20.11                          | 20.42                          | 18.23                              | 17.95                              |
|            | 6145            | 39      | be (80MHz)  | 484+242T          | 91.36                          | 89.78                          | 78.61                              | 78.76                              |
|            | 6185            | 47      | be (160MHz) | 996+484T          | 174.06                         | 179.55                         | 157.93                             | 158.70                             |
|            | 6105            | 31      | be (320MHz) | 3x996+484T        | -                              | -                              | 314.47                             | 316.55                             |
|            | 6105            | 31      | be (320MHz) | 3x996T            | -                              | -                              | 315.61                             | 317.50                             |
|            | 6105            | 31      | be (320MHz) | 2x996+484T        | -                              | -                              | 238.18                             | 238.52                             |
| Band 6     | 6475            | 105     | be (20MHz)  | 52+26T            | 18.63                          | 18.26                          | 16.90                              | 17.01                              |
|            | 6475            | 105     | be (20MHz)  | 106+26T           | 20.04                          | 20.51                          | 18.19                              | 18.18                              |
|            | 6465            | 103     | be (80MHz)  | 484+242T          | 90.29                          | 91.02                          | 78.64                              | 78.60                              |
|            | 6505            | 111     | be (160MHz) | 996+484T          | 175.05                         | 176.77                         | 158.36                             | 158.27                             |
| Band 5/6/7 | 6425            | 95      | be (320MHz) | 3x996+484T        | -                              | -                              | 315.52                             | 316.16                             |
|            | 6425            | 95      | be (320MHz) | 3x996T            | -                              | -                              | 316.08                             | 316.64                             |
|            | 6425            | 95      | be (320MHz) | 2x996+484T        | -                              | -                              | 237.40                             | 239.30                             |
| Band 7     | 6695            | 149     | be (20MHz)  | 52+26T            | 19.20                          | 17.97                          | 17.29                              | 16.56                              |
|            | 6695            | 149     | be (20MHz)  | 106+26T           | 20.61                          | 20.27                          | 18.18                              | 18.19                              |
|            | 6705            | 151     | be (80MHz)  | 484+242T          | 92.64                          | 90.55                          | 78.56                              | 78.59                              |
|            | 6665            | 143     | be (160MHz) | 996+484T          | 175.37                         | 176.18                         | 158.32                             | 157.92                             |
| Band 7/8   | 6745            | 159     | be (320MHz) | 3x996+484T        | -                              | -                              | 315.44                             | 316.04                             |
|            | 6745            | 159     | be (320MHz) | 3x996T            | -                              | -                              | 316.26                             | 316.21                             |
|            | 6745            | 159     | be (320MHz) | 2x996+484T        | -                              | -                              | 237.74                             | 237.13                             |
| Band 8     | 6995            | 209     | be (20MHz)  | 52+26T            | 18.86                          | 17.97                          | 17.22                              | 16.11                              |
|            | 6995            | 209     | be (20MHz)  | 106+26T           | 20.48                          | 20.40                          | 18.27                              | 18.20                              |
|            | 7025            | 215     | be (80MHz)  | 484+242T          | 91.04                          | 90.93                          | 78.52                              | 78.63                              |
|            | 6985            | 207     | be (160MHz) | 996+484T          | 175.06                         | 243.97                         | 157.95                             | 158.72                             |
| Band 7/8   | 6905            | 191     | be (320MHz) | 3x996+484T        | -                              | -                              | 316.74                             | 316.57                             |
|            | 6905            | 191     | be (320MHz) | 3x996T            | -                              | -                              | 316.04                             | 317.63                             |
|            | 6905            | 191     | be (320MHz) | 2x996+484T        | -                              | -                              | 237.86                             | 239.79                             |

**Table 7-3. 26dB Bandwidth Results – MRU – LPI**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 23 of 158                           |

|            | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 26dB Bandwidth [MHz] | Antenna-2 26dB Bandwidth [MHz] | Antenna-1 Occupied Bandwidth [MHz] | Antenna-2 Occupied Bandwidth [MHz] |
|------------|-----------------|---------|-------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|
| Band 5     | 5935            | 2       | be (20MHz)  | 21.61                          | 21.33                          | 19.18                              | 19.11                              |
|            | 6175            | 45      | be (20MHz)  | 21.55                          | 21.52                          | 19.20                              | 19.15                              |
|            | 6415            | 93      | be (20MHz)  | 21.73                          | 21.36                          | 19.18                              | 19.11                              |
|            | 5965            | 3       | be (40MHz)  | 43.27                          | 42.59                          | 38.30                              | 38.10                              |
|            | 6165            | 43      | be (40MHz)  | 43.40                          | 43.48                          | 38.14                              | 38.14                              |
|            | 6405            | 91      | be (40MHz)  | 42.78                          | 42.54                          | 38.22                              | 38.16                              |
|            | 5985            | 7       | be (80MHz)  | 91.62                          | 88.97                          | 78.21                              | 78.02                              |
|            | 6145            | 39      | be (80MHz)  | 89.68                          | 89.75                          | 78.05                              | 77.98                              |
|            | 6385            | 87      | be (80MHz)  | 90.45                          | 88.79                          | 78.11                              | 78.12                              |
|            | 6025            | 15      | be (160MHz) | 179.72                         | 186.09                         | 157.58                             | 157.47                             |
|            | 6185            | 47      | be (160MHz) | 178.98                         | 180.06                         | 157.51                             | 157.59                             |
|            | 6345            | 79      | be (160MHz) | 186.93                         | 172.68                         | 157.58                             | 157.37                             |
|            | 6105            | 31      | be (320MHz) | -                              | -                              | 314.58                             | 316.58                             |
|            | 6265            | 63      | be (320MHz) | -                              | -                              | 314.68                             | 315.88                             |
| Band 6     | 6435            | 97      | be (20MHz)  | 21.65                          | 21.18                          | 19.23                              | 19.12                              |
|            | 6475            | 105     | be (20MHz)  | 21.60                          | 21.17                          | 19.19                              | 19.15                              |
|            | 6515            | 113     | be (20MHz)  | 21.63                          | 21.14                          | 19.18                              | 19.12                              |
|            | 6445            | 99      | be (40MHz)  | 43.04                          | 42.44                          | 38.26                              | 38.12                              |
|            | 6485            | 107     | be (40MHz)  | 43.05                          | 42.42                          | 38.24                              | 38.12                              |
|            | 6525            | 115     | be (40MHz)  | 43.31                          | 42.49                          | 38.21                              | 38.12                              |
|            | 6465            | 103     | be (80MHz)  | 90.28                          | 89.14                          | 78.21                              | 77.92                              |
|            | 6505            | 111     | be (160MHz) | 188.06                         | 172.30                         | 157.60                             | 157.16                             |
| Band 5/6/7 | 6425            | 95      | be (320MHz) | -                              | -                              | 315.02                             | 315.25                             |
| Band 7     | 6695            | 117     | be (20MHz)  | 21.62                          | 21.50                          | 19.18                              | 19.15                              |
|            | 6695            | 149     | be (20MHz)  | 21.70                          | 21.27                          | 19.19                              | 19.16                              |
|            | 6875            | 185     | be (20MHz)  | 21.60                          | 21.40                          | 19.17                              | 19.15                              |
|            | 6565            | 123     | be (40MHz)  | 42.52                          | 42.82                          | 38.24                              | 38.19                              |
|            | 6685            | 155     | be (40MHz)  | 43.41                          | 42.11                          | 38.15                              | 38.15                              |
|            | 6845            | 179     | be (40MHz)  | 42.92                          | 42.82                          | 38.26                              | 38.14                              |
|            | 6545            | 119     | be (80MHz)  | 90.89                          | 89.39                          | 78.35                              | 78.12                              |
|            | 6705            | 151     | be (80MHz)  | 90.38                          | 89.78                          | 78.24                              | 78.00                              |
|            | 6865            | 183     | be (80MHz)  | 91.43                          | 89.69                          | 78.33                              | 77.95                              |
|            | 6665            | 143     | be (160MHz) | 188.58                         | 171.44                         | 157.91                             | 157.38                             |
| Band 6/7   | 6825            | 175     | be (160MHz) | 182.15                         | 171.84                         | 157.82                             | 157.18                             |
|            | 6585            | 127     | be (320MHz) | -                              | -                              | 316.19                             | 315.53                             |
| Band 7/8   | 6745            | 159     | be (320MHz) | -                              | -                              | 316.44                             | 315.29                             |
| Band 8     | 7115            | 189     | be (20MHz)  | 21.79                          | 21.25                          | 19.21                              | 19.17                              |
|            | 6995            | 209     | be (20MHz)  | 21.57                          | 21.39                          | 19.18                              | 19.16                              |
|            | 7115            | 233     | be (20MHz)  | 21.47                          | 21.40                          | 19.22                              | 19.17                              |
|            | 6885            | 187     | be (40MHz)  | 43.12                          | 43.35                          | 38.19                              | 38.10                              |
|            | 6965            | 211     | be (40MHz)  | 43.28                          | 42.56                          | 38.25                              | 38.13                              |
|            | 7085            | 227     | be (40MHz)  | 43.35                          | 42.66                          | 38.24                              | 38.10                              |
|            | 6945            | 199     | be (80MHz)  | 91.30                          | 88.88                          | 78.22                              | 78.09                              |
|            | 7025            | 215     | be (80MHz)  | 91.63                          | 89.57                          | 78.28                              | 78.20                              |
| Band 7/8   | 6985            | 207     | be (160MHz) | 181.10                         | 243.13                         | 157.90                             | 157.40                             |
|            | 6905            | 191     | be (320MHz) | -                              | -                              | 315.59                             | 316.54                             |

**Table 7-4. 26dB Bandwidth Results – Full Tones – LPI**

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 24 of 158                    |

|          | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>26dB Bandwidth<br>[MHz] | Antenna-2<br>26dB Bandwidth<br>[MHz] | Antenna-3<br>26dB Bandwidth<br>[MHz] | Antenna-4<br>26dB Bandwidth<br>[MHz] |
|----------|--------------------|---------|----------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Band 5   | 5935               | 2       | be (20MHz)     | 18.61                                | 18.24                                | 17.14                                | 15.85                                |
|          | 6175               | 45      | be (20MHz)     | 18.06                                | 18.39                                | 16.92                                | 16.78                                |
|          | 6415               | 93      | be (20MHz)     | 18.41                                | 18.17                                | 16.90                                | 16.89                                |
|          | 5965               | 3       | be (40MHz)     | 23.07                                | 24.01                                | 20.80                                | 21.15                                |
|          | 6165               | 43      | be (40MHz)     | 23.57                                | 24.96                                | 21.01                                | 21.78                                |
|          | 6405               | 91      | be (40MHz)     | 24.29                                | 25.34                                | 21.66                                | 21.55                                |
|          | 5985               | 7       | be (80MHz)     | 35.97                                | 36.08                                | 29.63                                | 29.31                                |
|          | 6145               | 39      | be (80MHz)     | 32.71                                | 33.35                                | 24.76                                | 29.20                                |
|          | 6385               | 87      | be (80MHz)     | 29.29                                | 35.13                                | 25.02                                | 24.71                                |
|          | 6025               | 15      | be (160MHz)    | 35.81                                | 34.67                                | 29.34                                | 30.09                                |
|          | 6185               | 47      | be (160MHz)    | 37.55                                | 38.06                                | 29.25                                | 31.21                                |
|          | 6345               | 79      | be (160MHz)    | 37.08                                | 33.25                                | 30.45                                | 29.79                                |
|          | 6105               | 31      | be (320MHz)    | 39.62                                | 48.82                                | 35.92                                | 53.25                                |
|          | 6265               | 63      | be (320MHz)    | 50.18                                | 49.70                                | 44.84                                | 43.19                                |
| Band 7   | 6695               | 117     | be (20MHz)     | 18.29                                | 18.40                                | 17.08                                | 16.72                                |
|          | 6695               | 149     | be (20MHz)     | 18.59                                | 18.28                                | 17.16                                | 16.86                                |
|          | 6875               | 181     | be (20MHz)     | 18.42                                | 18.30                                | 17.02                                | 16.91                                |
|          | 6565               | 123     | be (40MHz)     | 24.48                                | 24.45                                | 21.78                                | 20.74                                |
|          | 6725               | 155     | be (40MHz)     | 23.47                                | 23.43                                | 21.21                                | 20.03                                |
|          | 6845               | 179     | be (40MHz)     | 24.19                                | 22.85                                | 21.42                                | 21.23                                |
|          | 6545               | 135     | be (80MHz)     | 35.32                                | 34.66                                | 24.87                                | 25.17                                |
|          | 6705               | 151     | be (80MHz)     | 34.15                                | 34.07                                | 25.38                                | 26.05                                |
|          | 6865               | 167     | be (80MHz)     | 28.86                                | 32.76                                | 24.30                                | 29.56                                |
|          | 6665               | 143     | be (160MHz)    | 30.72                                | 35.35                                | 28.00                                | 28.24                                |
|          | 6825               | 175     | be (160MHz)    | 38.42                                | 34.45                                | 32.90                                | 31.33                                |
| Band 7/8 | 6745               | 159     | be (320MHz)    | 42.63                                | 45.82                                | 41.44                                | 40.64                                |

Table 7-5. 26dB Bandwidth Results – 26 Tones – SP

|        | Frequency<br>[MHz] | Channel | 802.11<br>MODE | MRU<br>Configuration | Antenna-1<br>26dB Bandwidth<br>[MHz] | Antenna-2<br>26dB Bandwidth<br>[MHz] | Antenna-1<br>Occupied<br>Bandwidth<br>[MHz] | Antenna-2<br>Occupied<br>Bandwidth<br>[MHz] |
|--------|--------------------|---------|----------------|----------------------|--------------------------------------|--------------------------------------|---------------------------------------------|---------------------------------------------|
| Band 5 | 6175               | 45      | be (20MHz)     | 52+26T               | 19.01                                | 18.80                                | 16.42                                       | 16.96                                       |
|        | 6175               | 45      | be (20MHz)     | 106+26T              | 19.86                                | 20.53                                | 18.12                                       | 18.32                                       |
| Band 7 | 6695               | 149     | be (20MHz)     | 52+26T               | 17.89                                | 18.36                                | 16.69                                       | 16.94                                       |
|        | 6695               | 149     | be (20MHz)     | 106+26T              | 19.34                                | 19.63                                | 18.04                                       | 18.19                                       |

Table 7-6. 26dB Bandwidth Results – MRU – SP

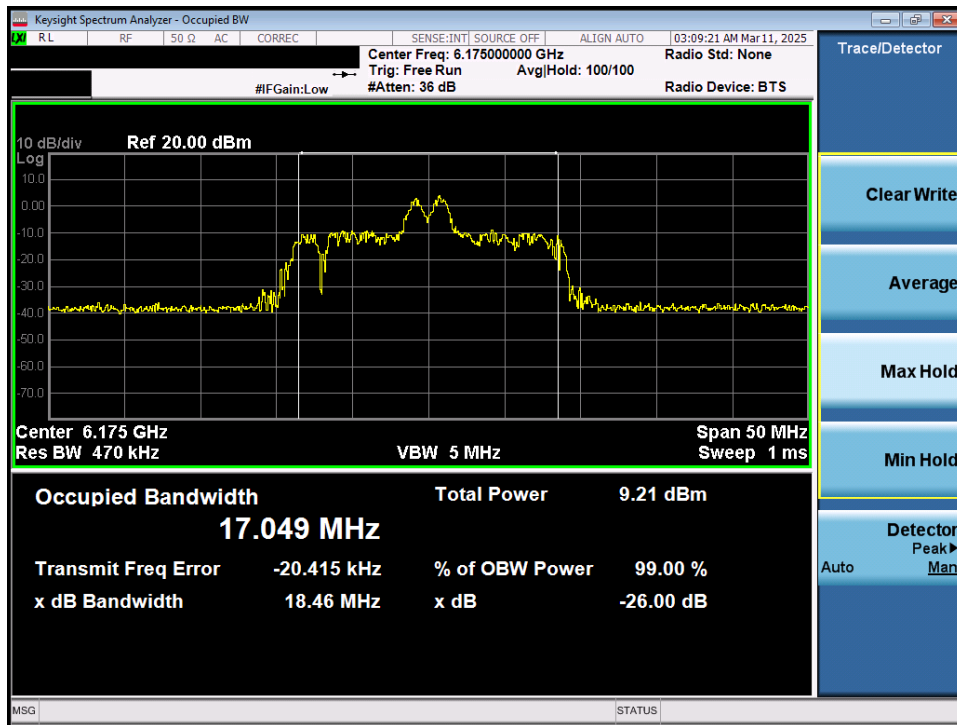
|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 25 of 158                    |

|        | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>26dB Bandwidth<br>[MHz] | Antenna-2<br>26dB Bandwidth<br>[MHz] | Antenna-1<br>Occupied<br>Bandwidth<br>[MHz] | Antenna-2<br>Occupied<br>Bandwidth<br>[MHz] |
|--------|--------------------|---------|----------------|--------------------------------------|--------------------------------------|---------------------------------------------|---------------------------------------------|
| Band 5 | 5935               | 2       | be (20MHz)     | 21.75                                | 21.42                                | 19.18                                       | 19.18                                       |
|        | 6175               | 45      | be (20MHz)     | 21.41                                | 22.10                                | 19.17                                       | 19.21                                       |
|        | 6415               | 93      | be (20MHz)     | 21.47                                | 22.06                                | 19.21                                       | 19.24                                       |
|        | 5965               | 3       | be (40MHz)     | 43.23                                | 43.20                                | 38.23                                       | 38.11                                       |
|        | 6165               | 43      | be (40MHz)     | 42.72                                | 42.79                                | 38.12                                       | 38.19                                       |
|        | 6405               | 91      | be (40MHz)     | 43.71                                | 42.71                                | 38.20                                       | 38.18                                       |
| Band 7 | 6695               | 117     | be (20MHz)     | 21.93                                | 21.45                                | 19.16                                       | 19.17                                       |
|        | 6695               | 149     | be (20MHz)     | 21.67                                | 22.00                                | 19.19                                       | 19.20                                       |
|        | 6875               | 181     | be (20MHz)     | 21.50                                | 21.70                                | 19.14                                       | 19.15                                       |
|        | 6565               | 123     | be (40MHz)     | 43.12                                | 41.97                                | 38.24                                       | 38.13                                       |
|        | 6725               | 155     | be (40MHz)     | 42.83                                | 42.67                                | 38.21                                       | 38.06                                       |
|        | 6845               | 179     | be (40MHz)     | 42.98                                | 42.35                                | 38.14                                       | 38.11                                       |

**Table 7-7. 26dB Bandwidth Results – Full Tones – SP**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 26 of 158                           |

## 7.2.1 MIMO Antenna-1 Bandwidth Measurements - (Partial Tones)

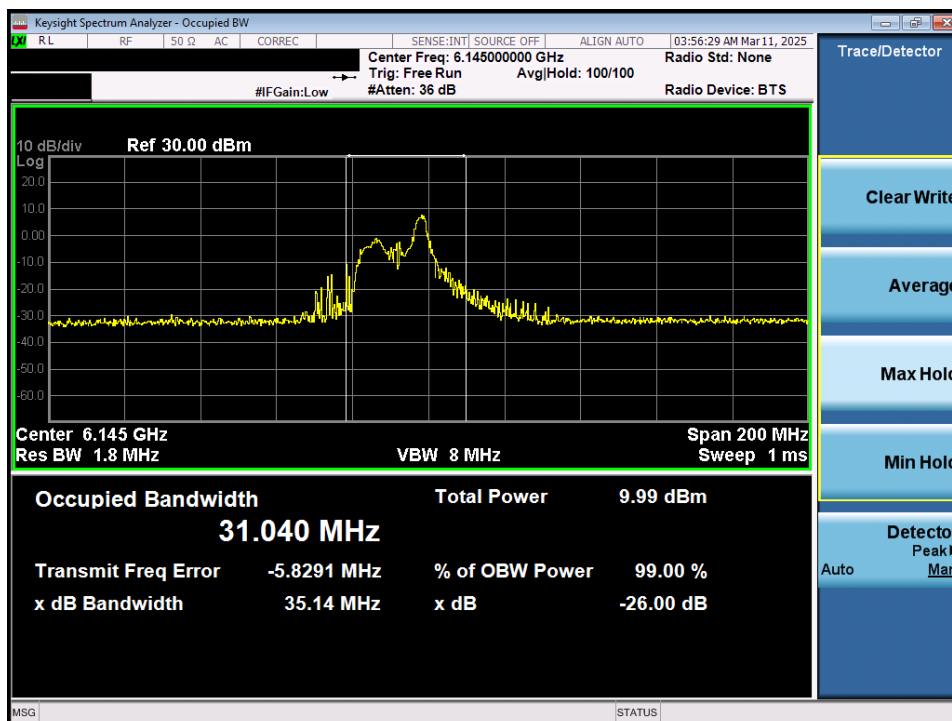


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - LPI

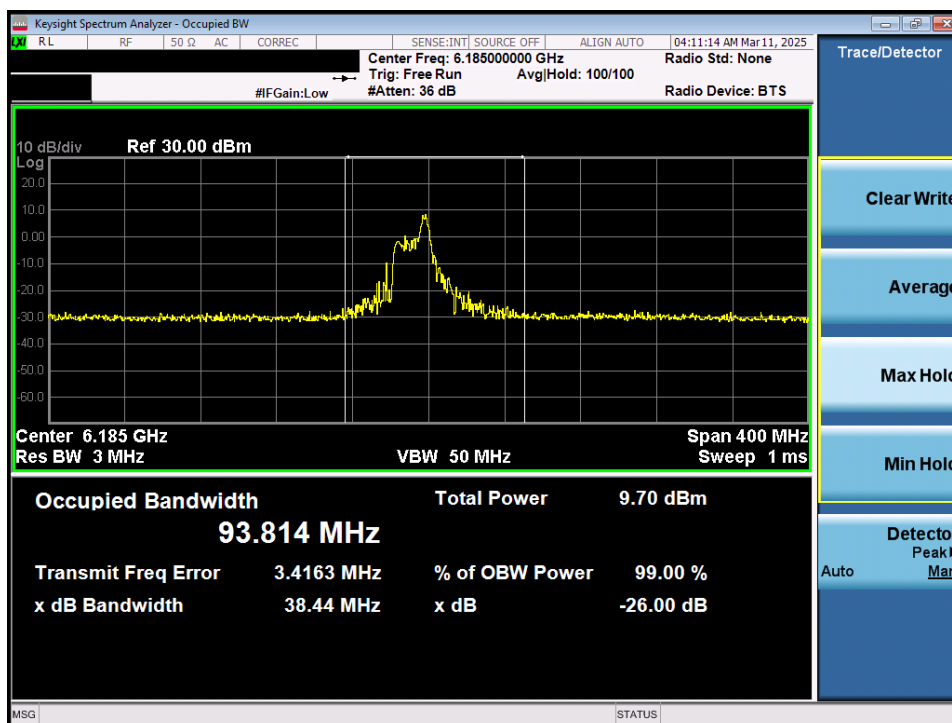


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 27 of 158                    |

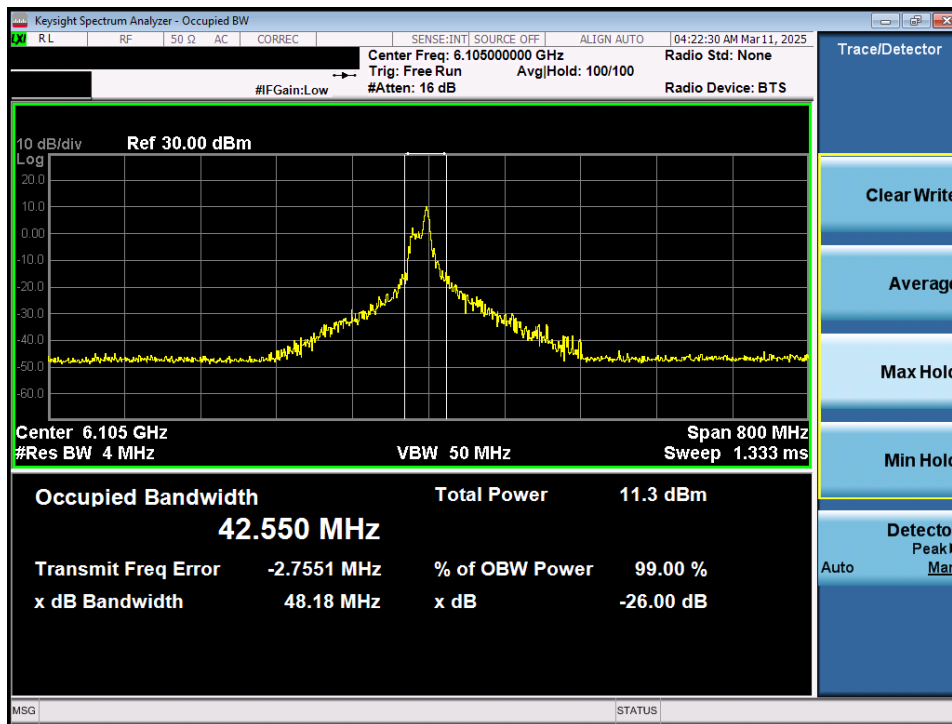


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - LPI

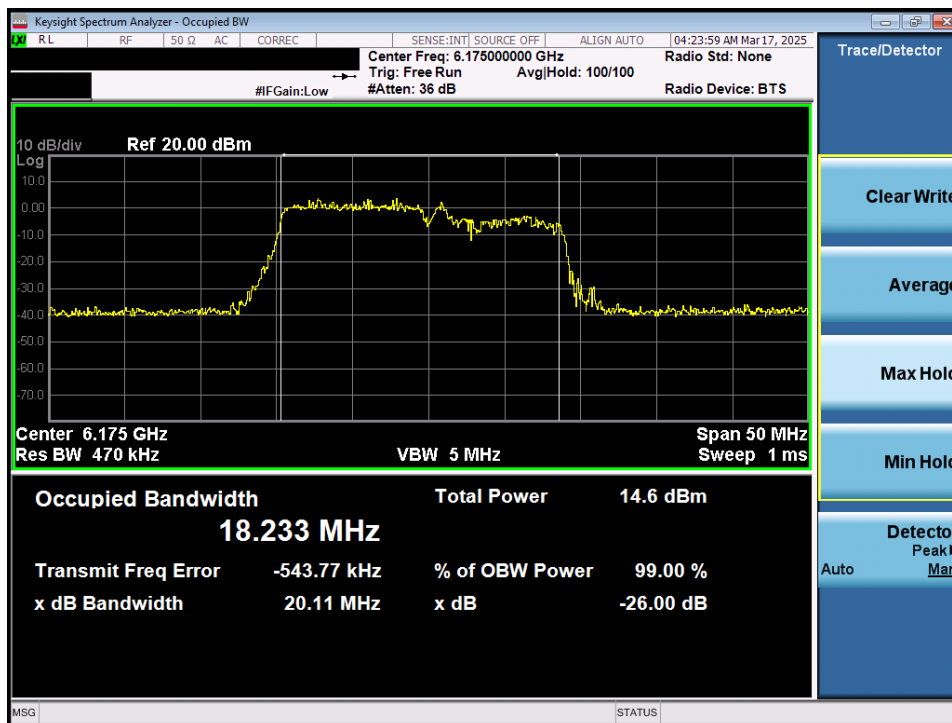


Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 28 of 158                    |

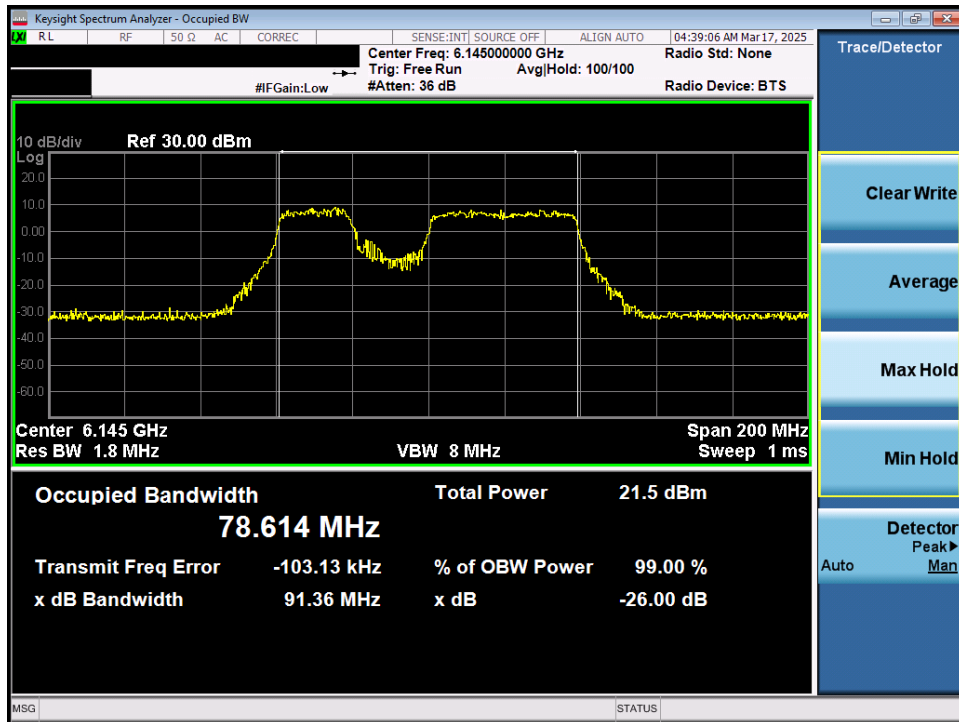


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - LPI

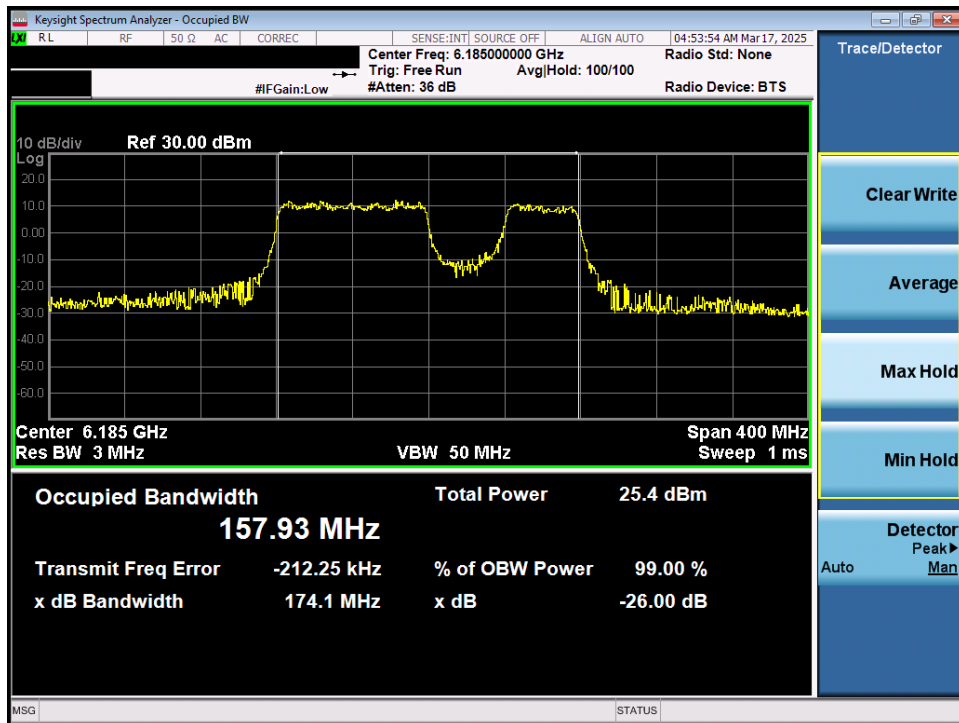


Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11be (106+26 Tones) (UNII Band 5) – Ch. 45) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 29 of 158                    |



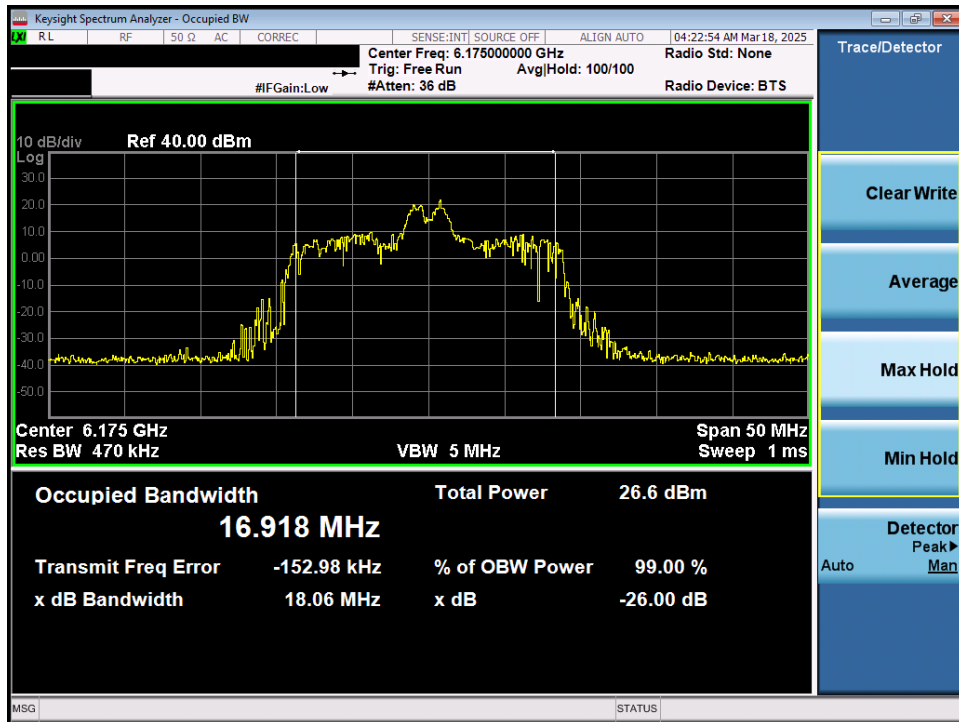
Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11be (484+242 Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11be (996+484 Tones) (UNII Band 5) – Ch. 47) LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 30 of 158                    |



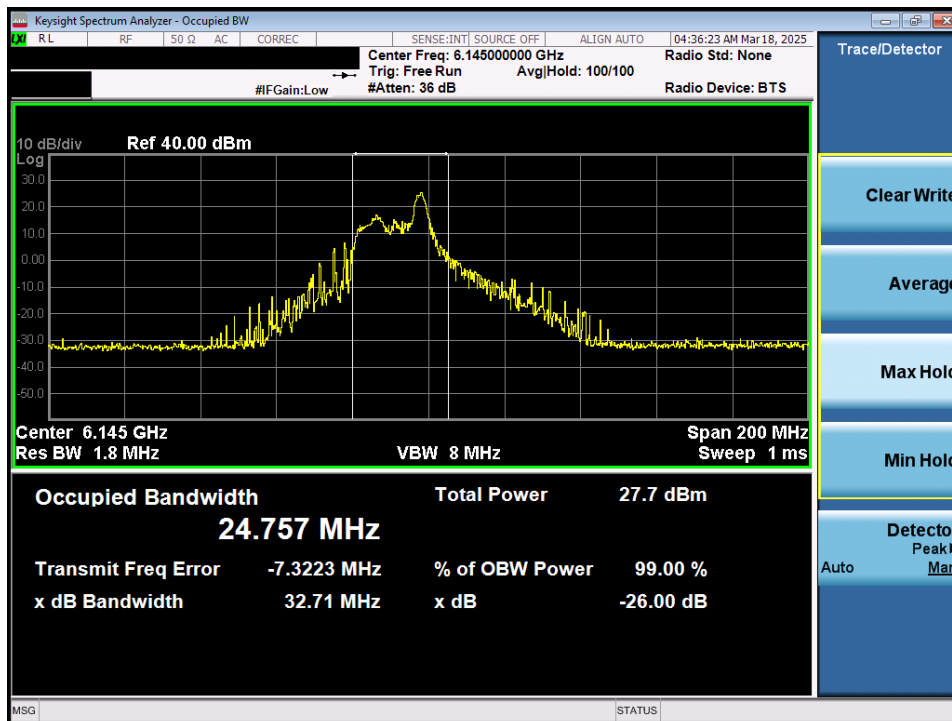


Plot 7-10. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) – SP

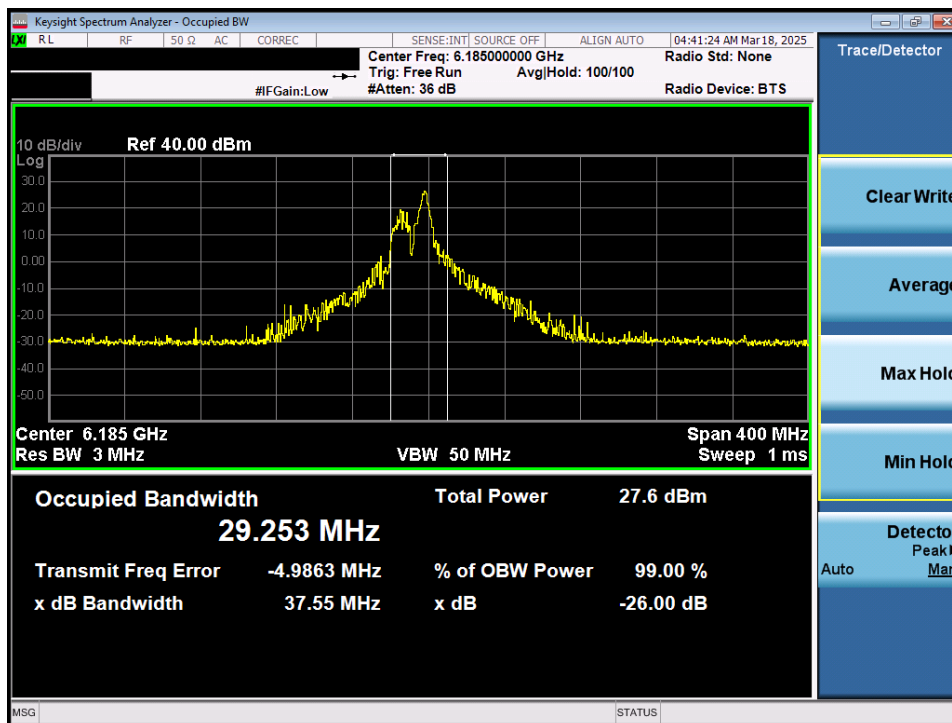


Plot 7-11. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 32 of 158                    |

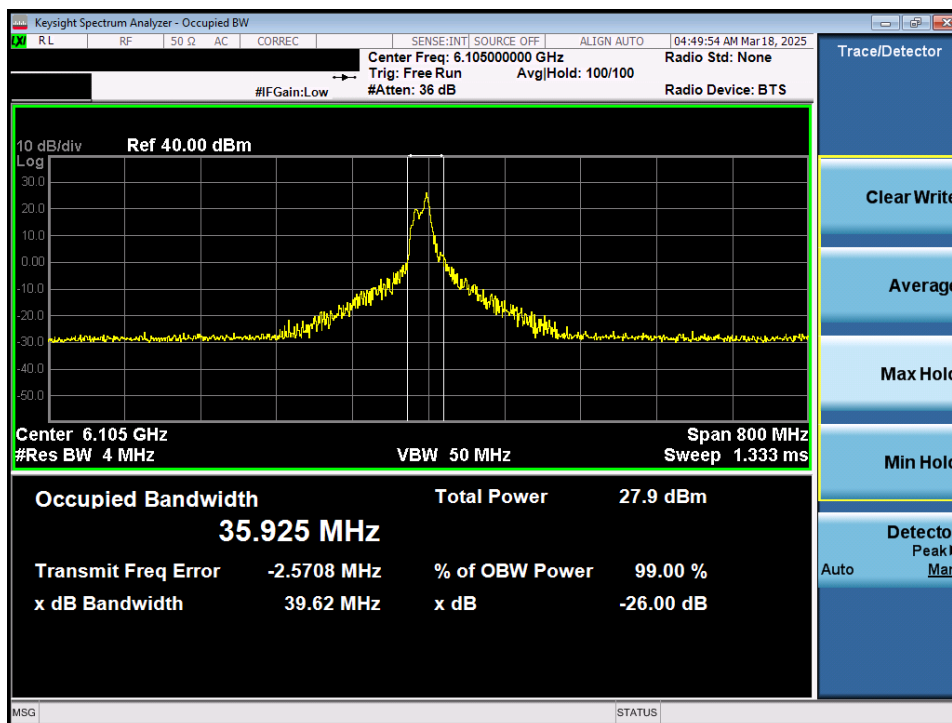


Plot 7-12. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - SP

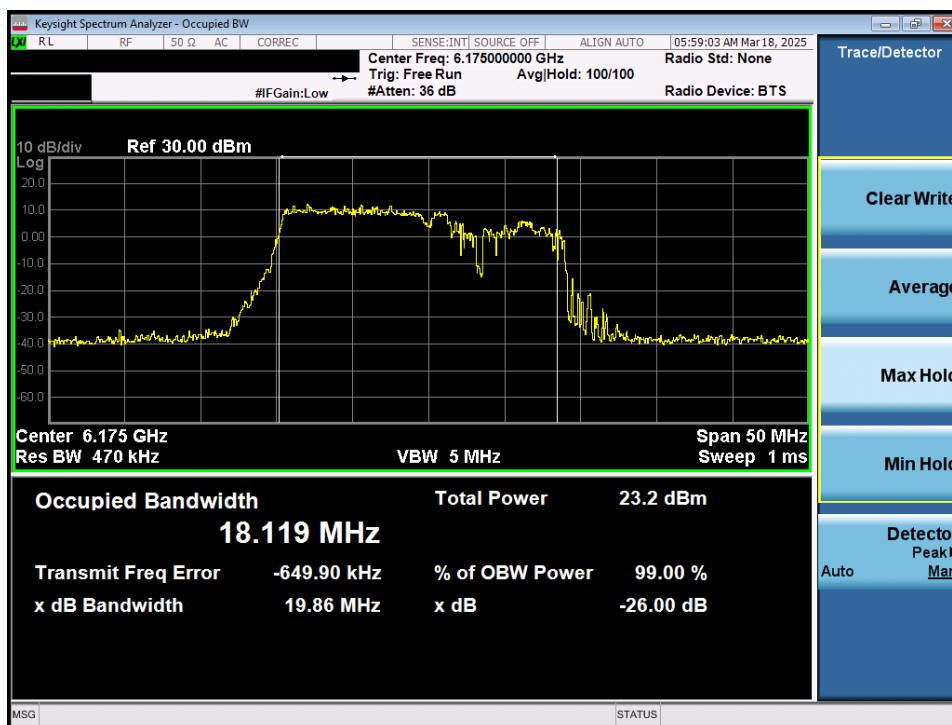


Plot 7-13. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 33 of 158                    |



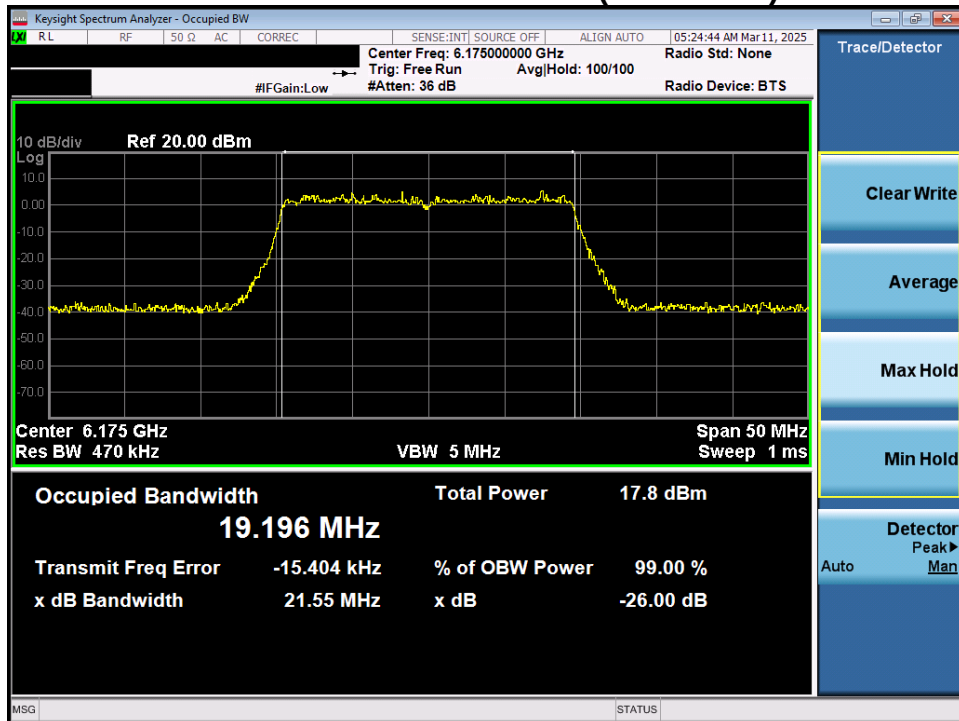
Plot 7-14. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - SP



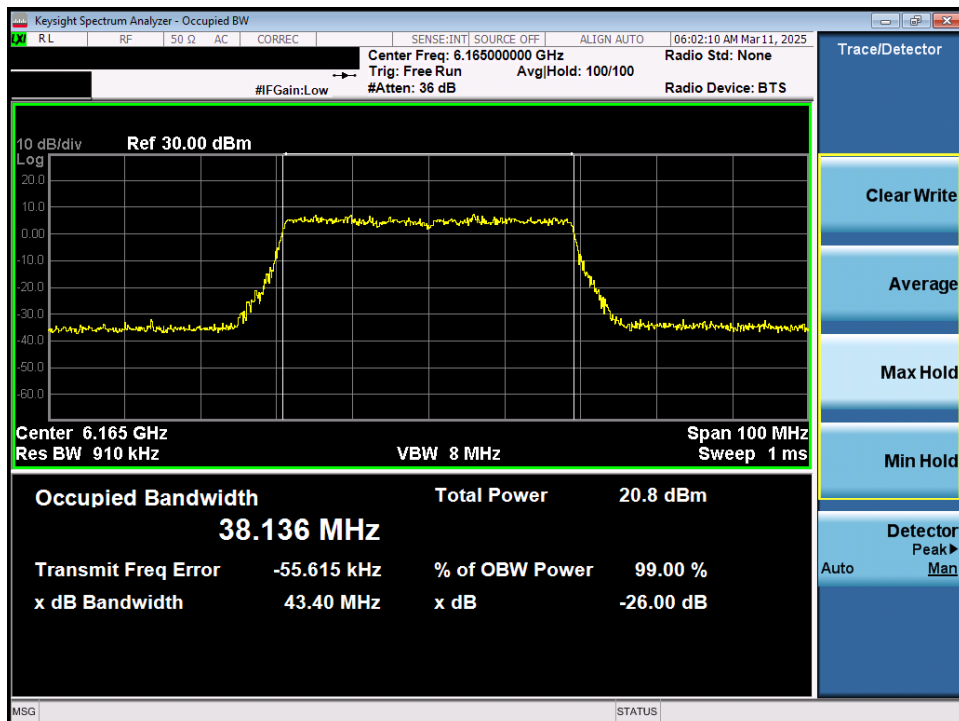
Plot 7-15. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11be (106+26 Tones) (UNII Band 5) – Ch. 45) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 34 of 158                    |

## 7.2.2 MIMO Antenna-1 Bandwidth Measurements - (Full Tones)

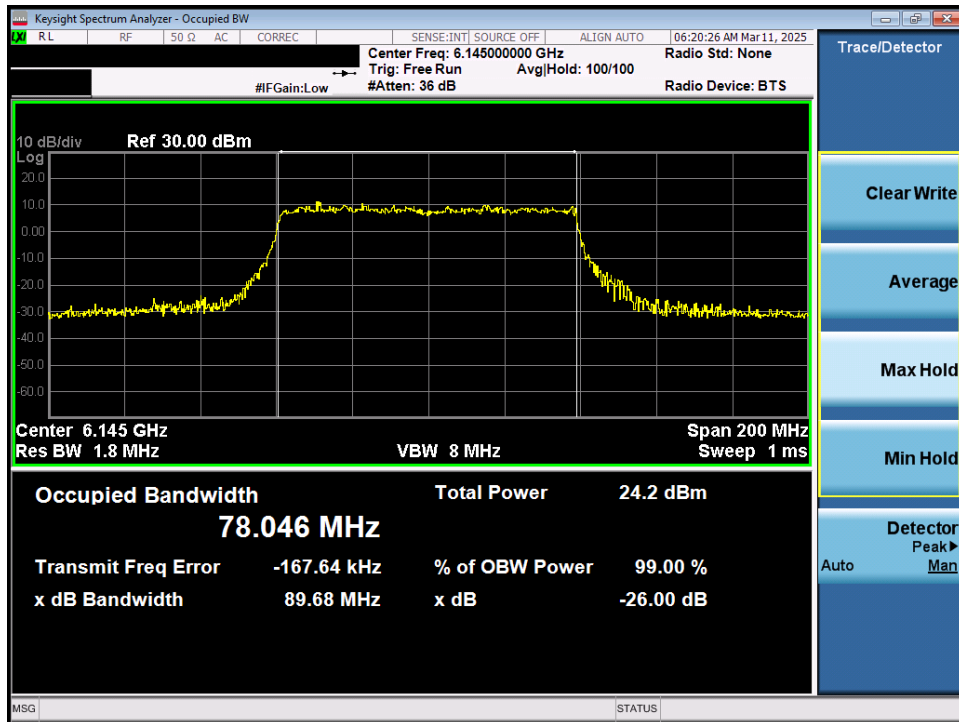


Plot 7-16. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) – LPI

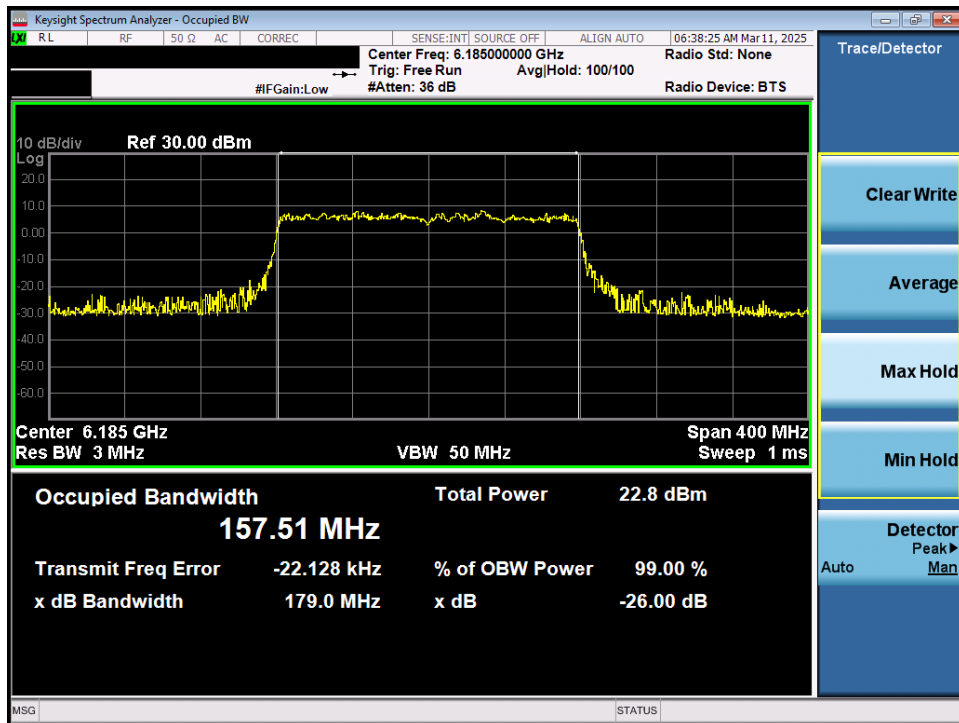


Plot 7-17. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 35 of 158                    |

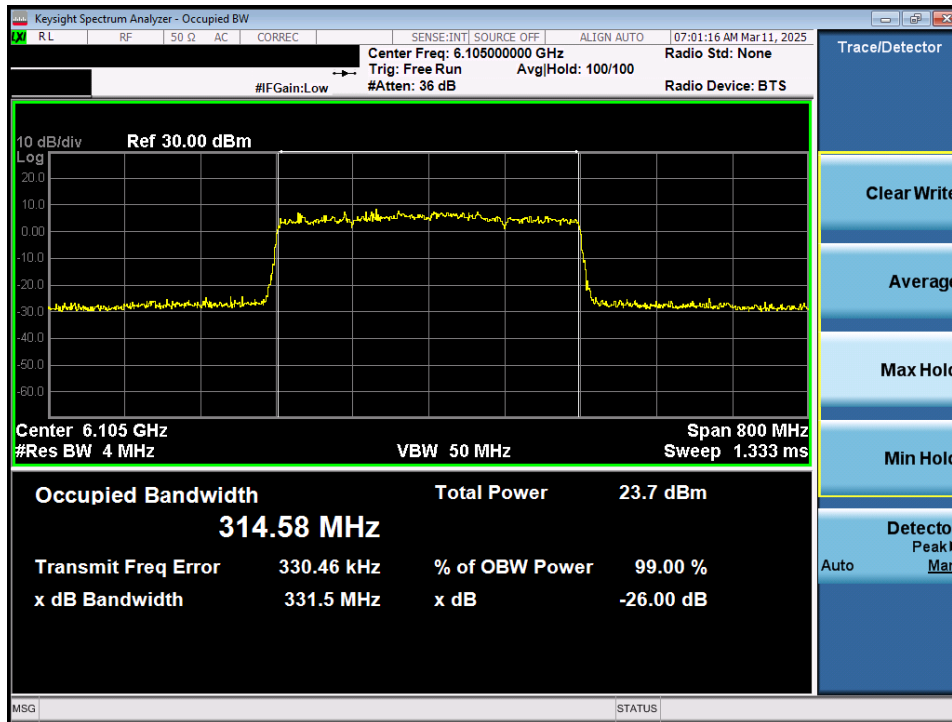


Plot 7-18. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 39) - LPI/SP

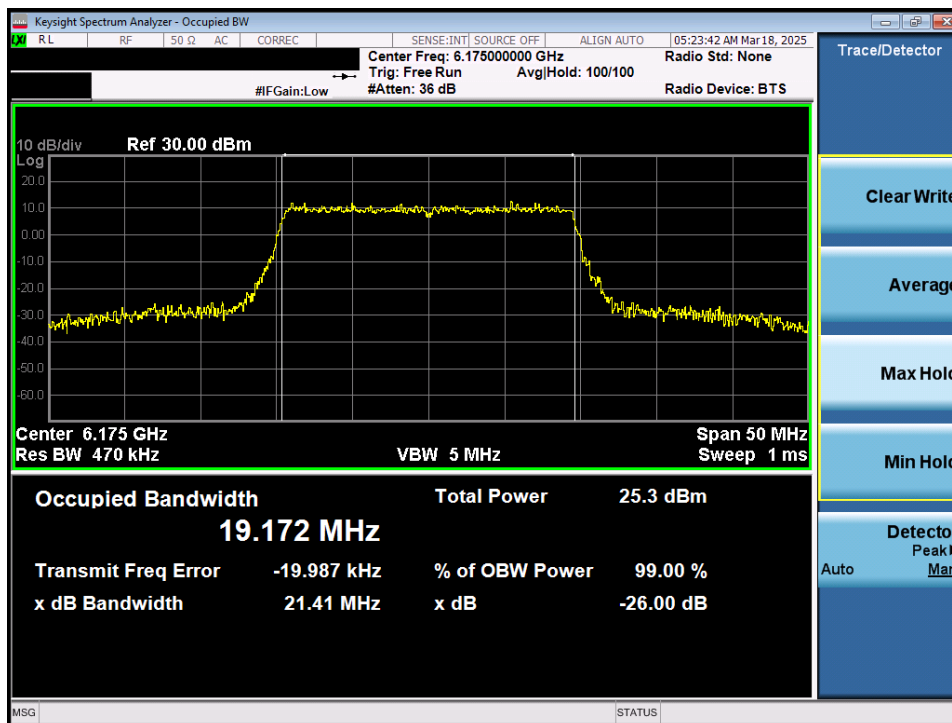


Plot 7-19. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 47) - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 36 of 158                    |

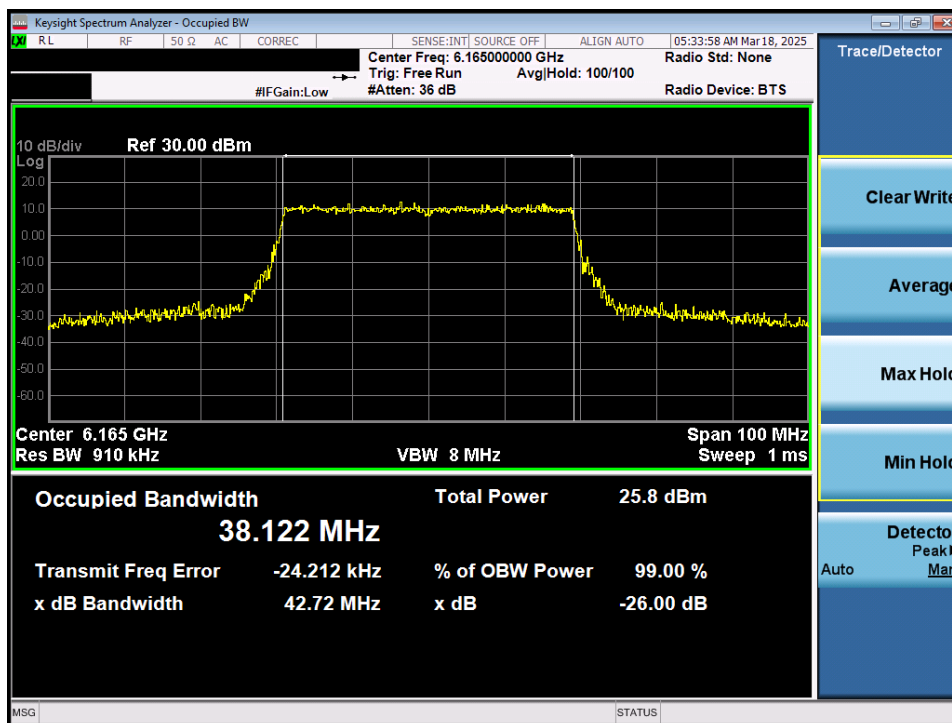


Plot 7-20. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 31) - LPI/SP



Plot 7-21. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - SP

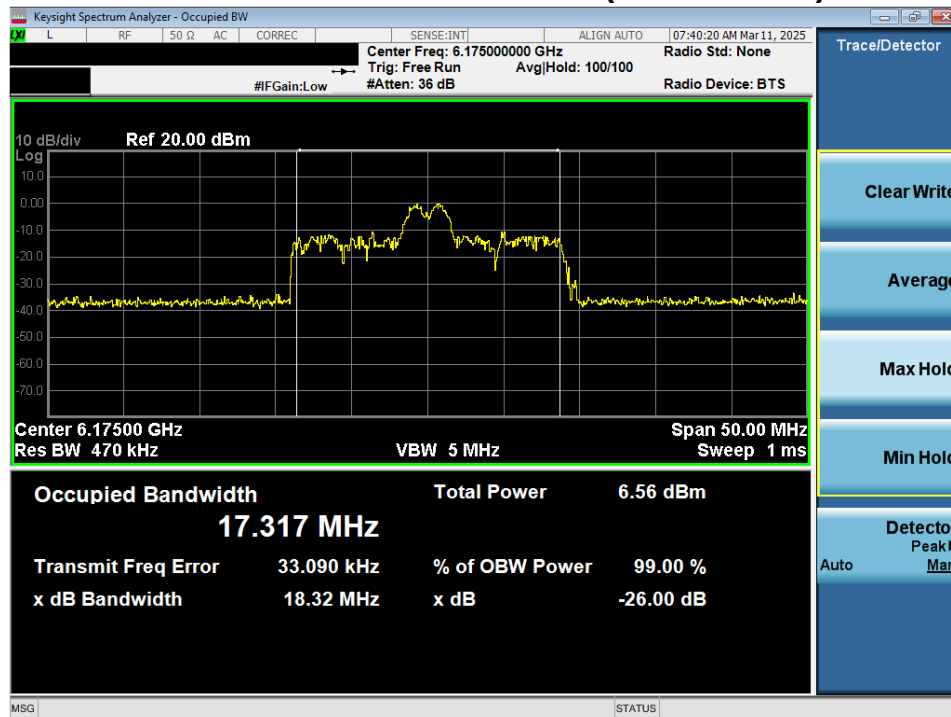
|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 37 of 158                    |



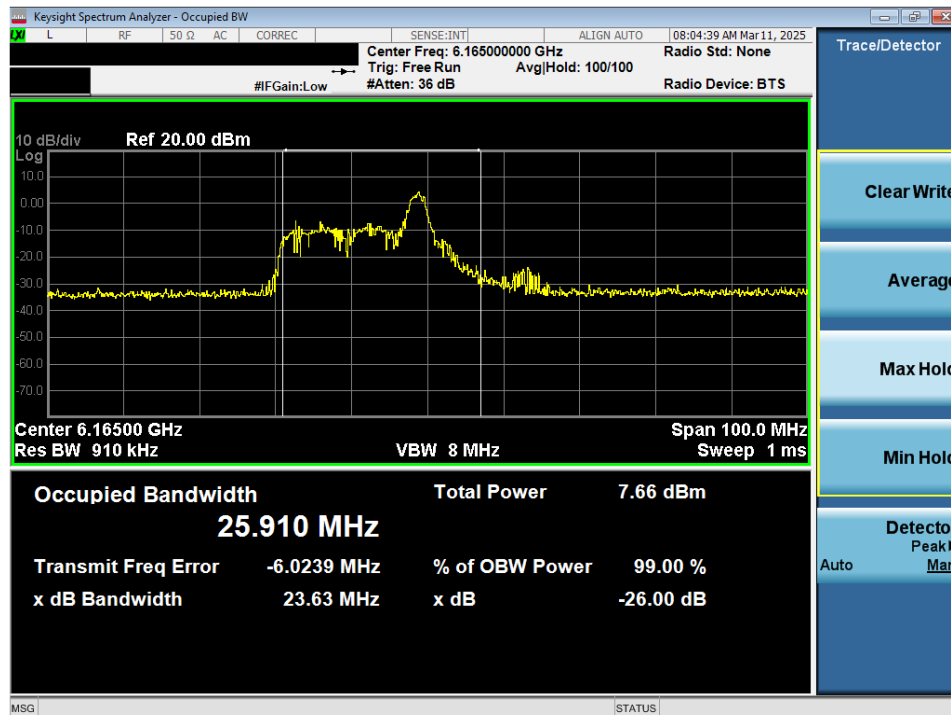
Plot 7-22. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 38 of 158                    |

## 7.2.3 MIMO Antenna-2 Bandwidth Measurements – (Partial Tones)

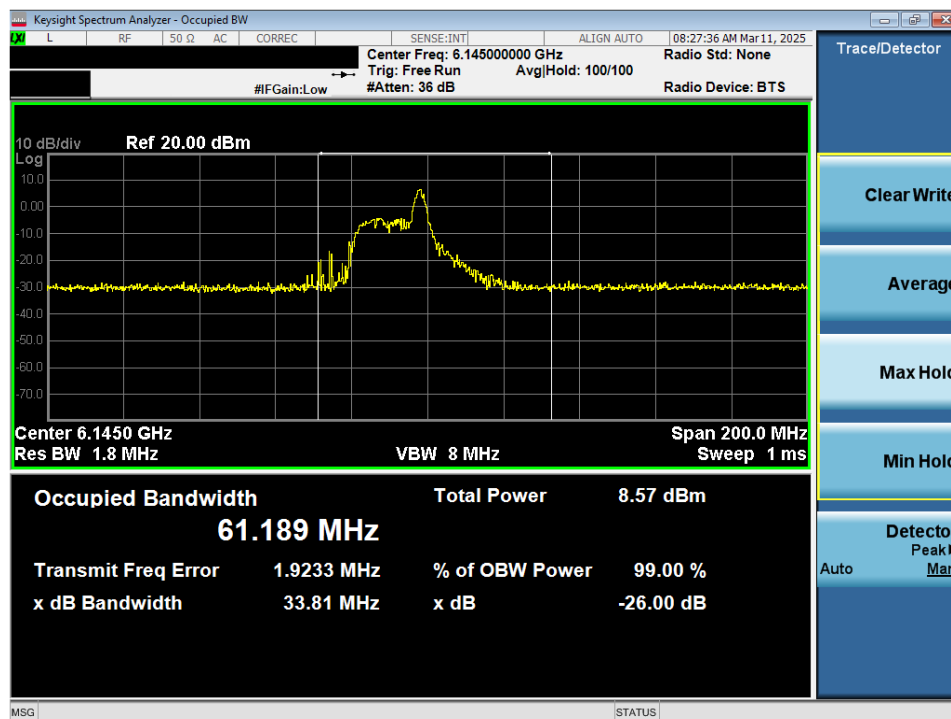


Plot 7-23. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - LPI

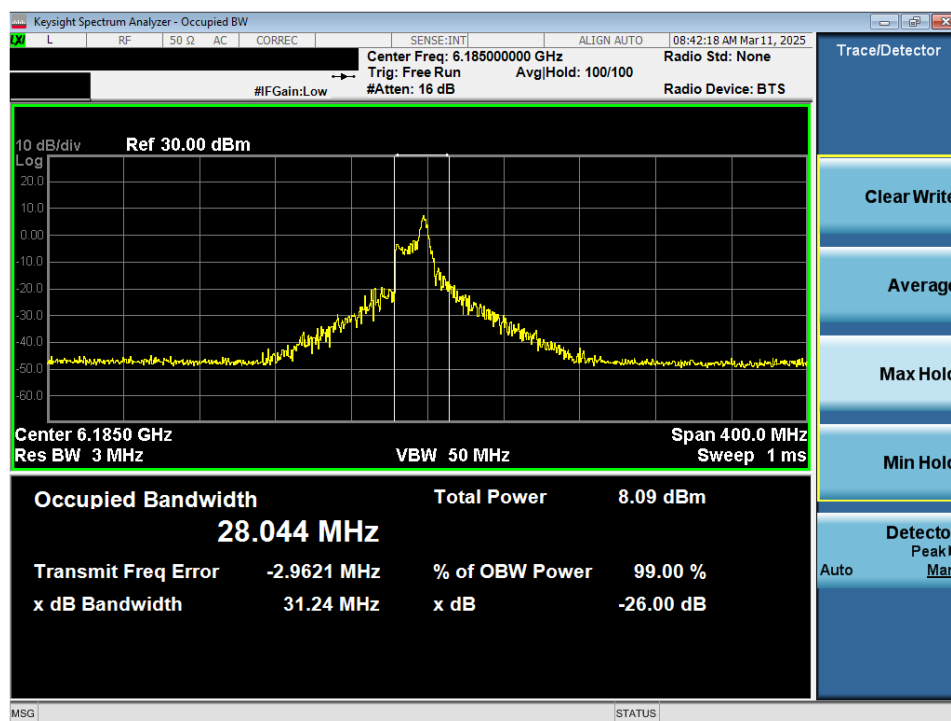


Plot 7-24. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 39 of 158                    |

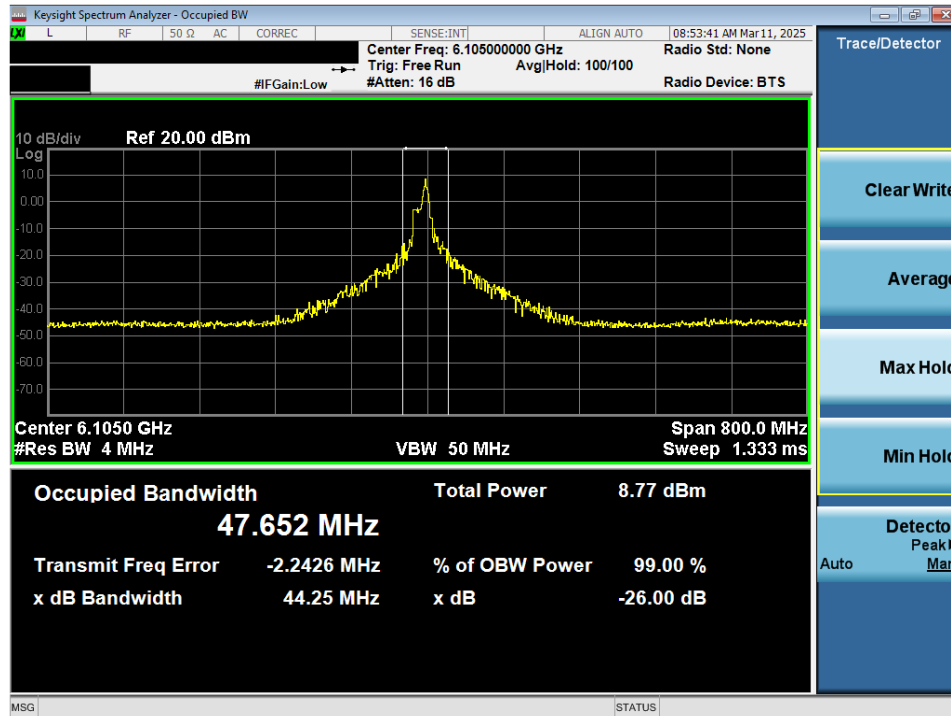


Plot 7-25. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - LPI

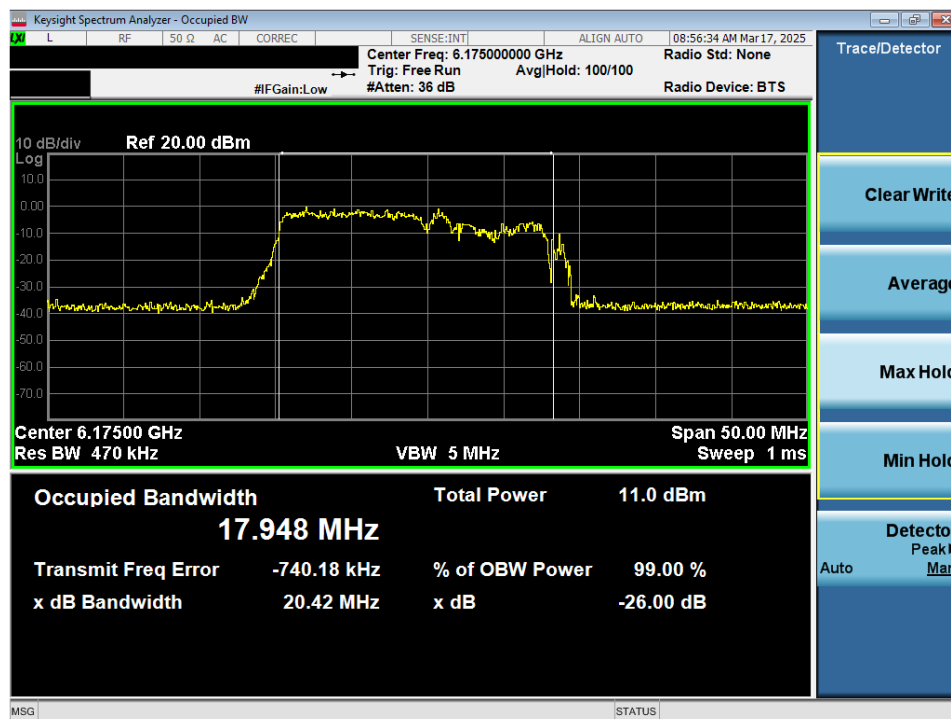


Plot 7-26. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 40 of 158                    |

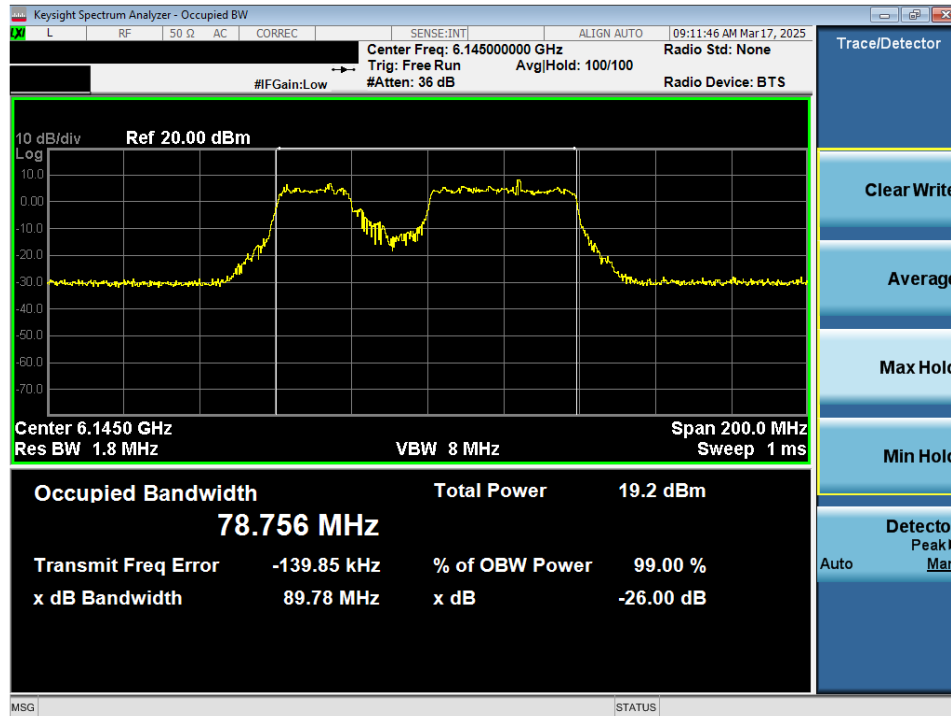


Plot 7-27. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - LPI

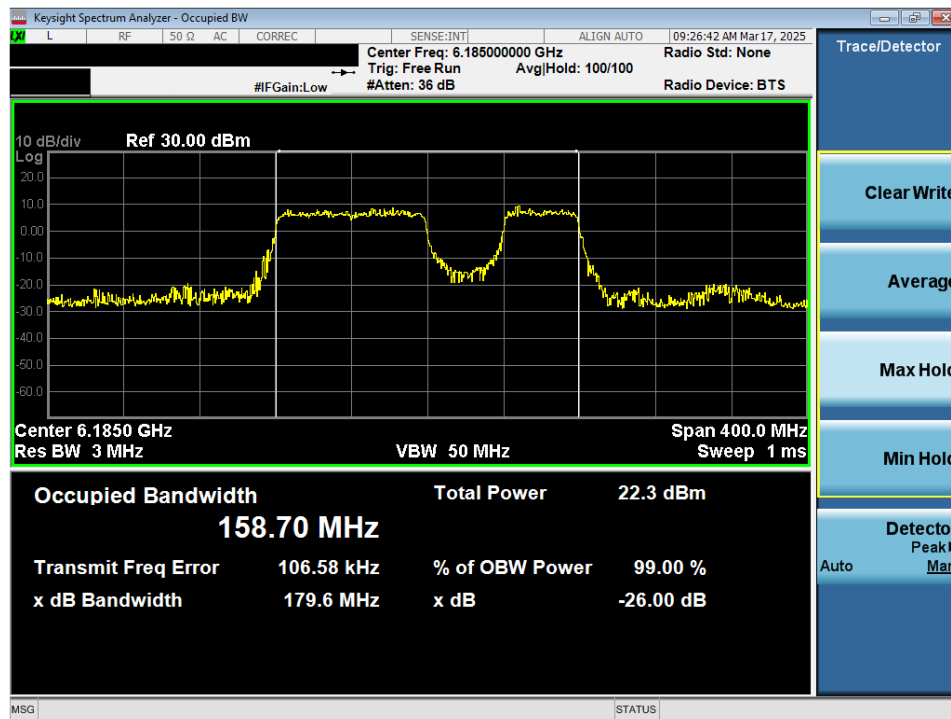


Plot 7-28. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11be (106+26 Tones) (UNII Band 5) – Ch. 45) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 41 of 158                    |

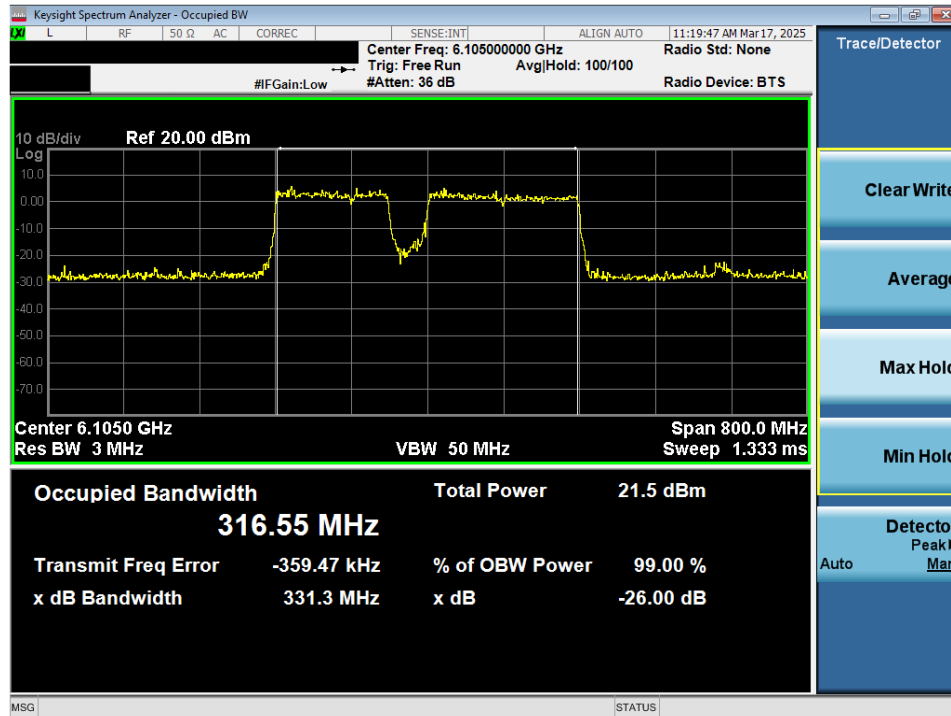


Plot 7-29. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (484+242 Tones) (UNII Band 5) – Ch. 39) LPI/SP

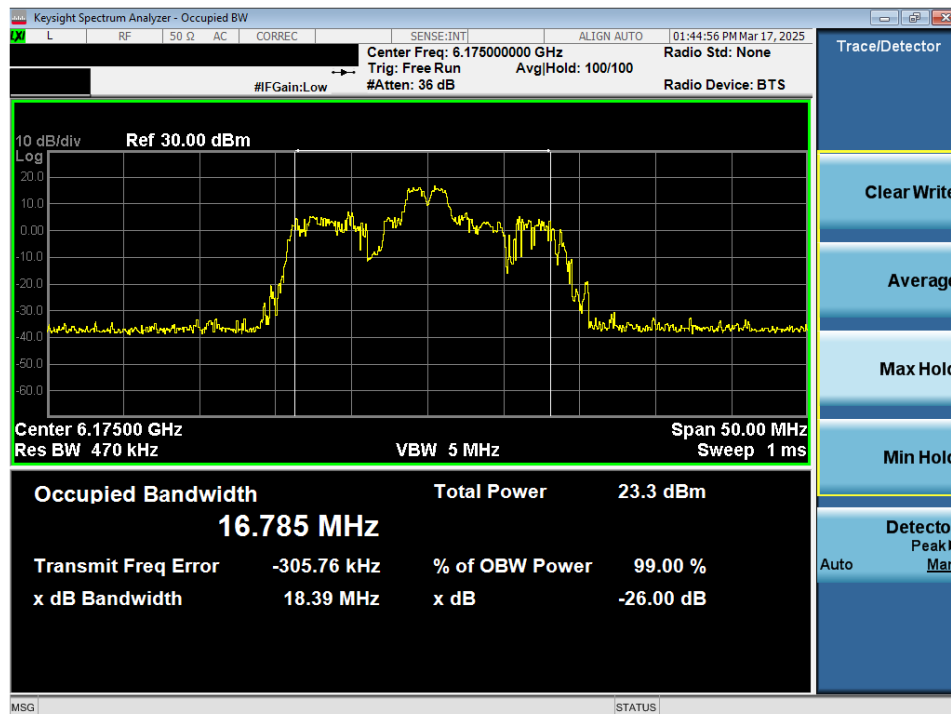


Plot 7-30. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (996+484 Tones) (UNII Band 5) – Ch. 47) LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 42 of 158                    |

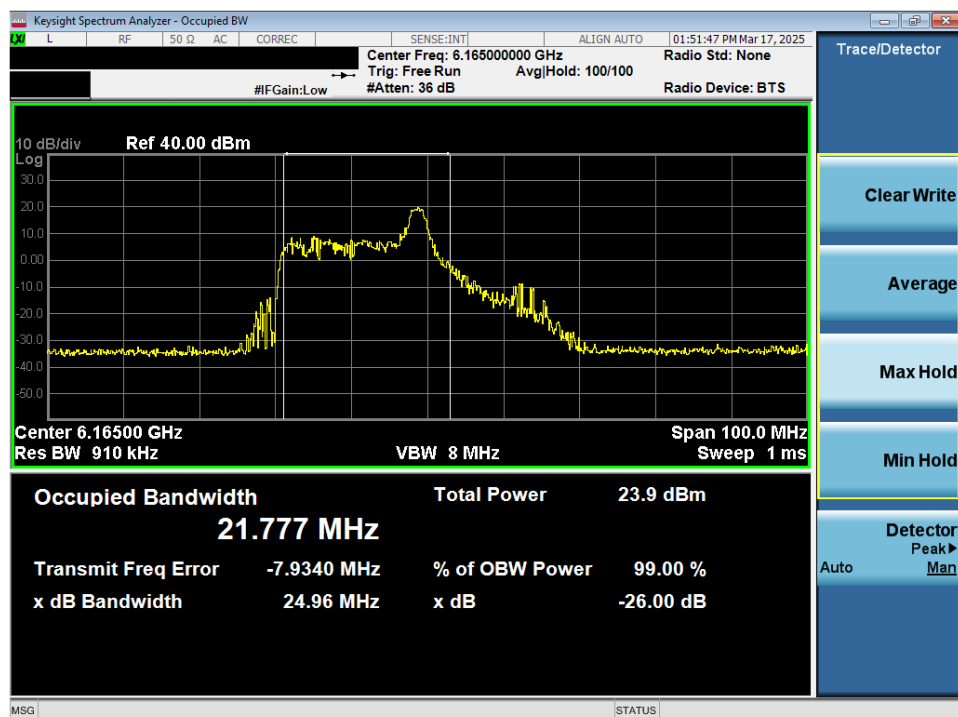


Plot 7-31. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11be (3\*996+484 Tones) (UNII Band 5) – Ch. 31) LPI/SP

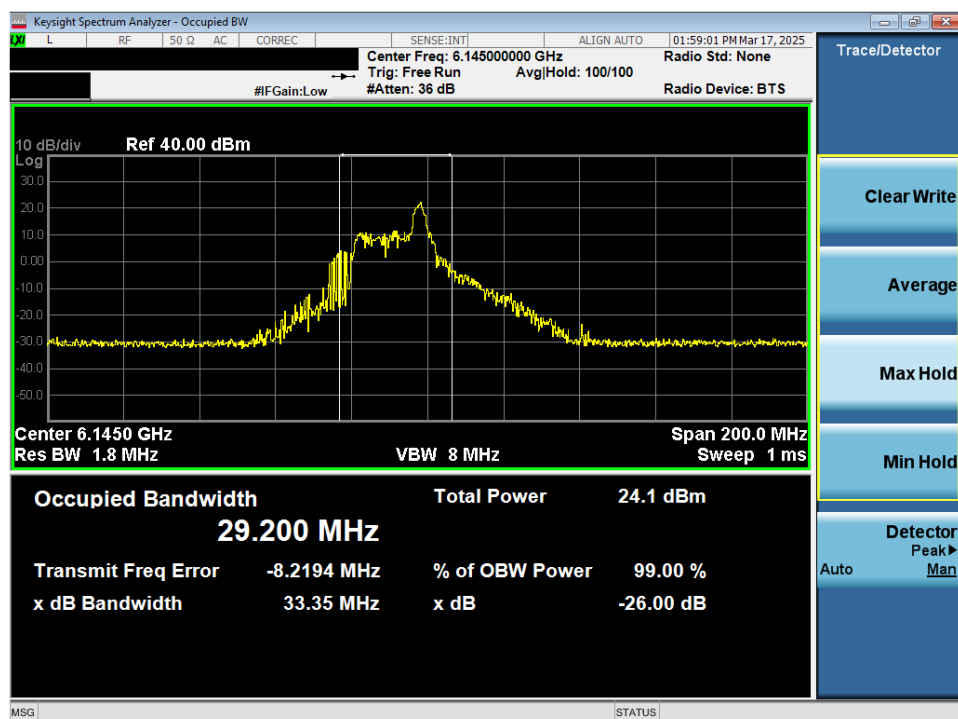


Plot 7-32. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 43 of 158                    |

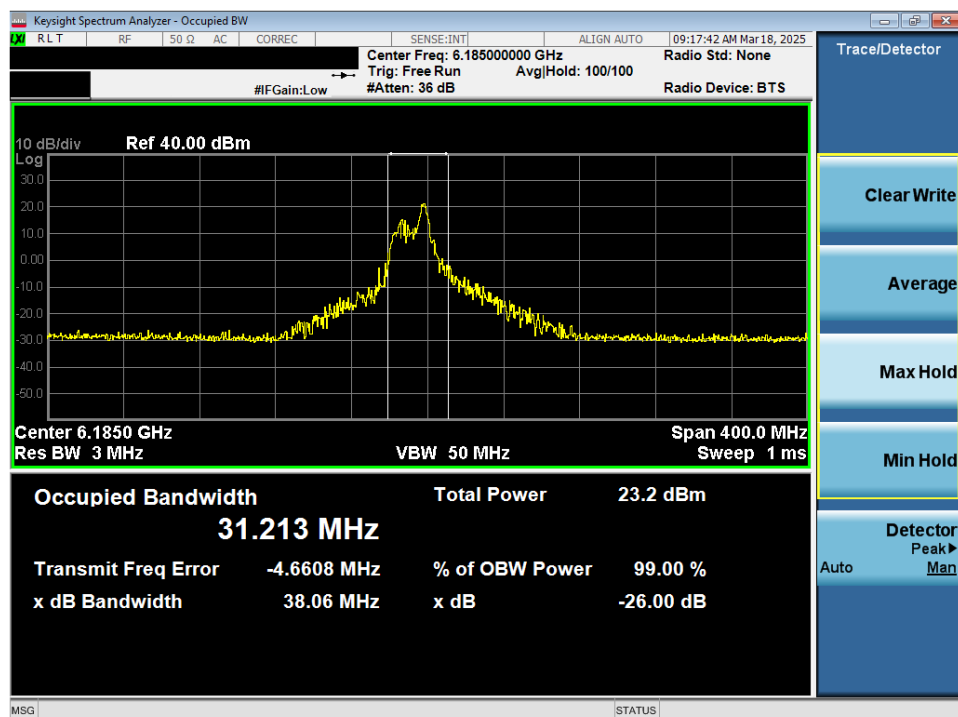


Plot 7-33. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - SP

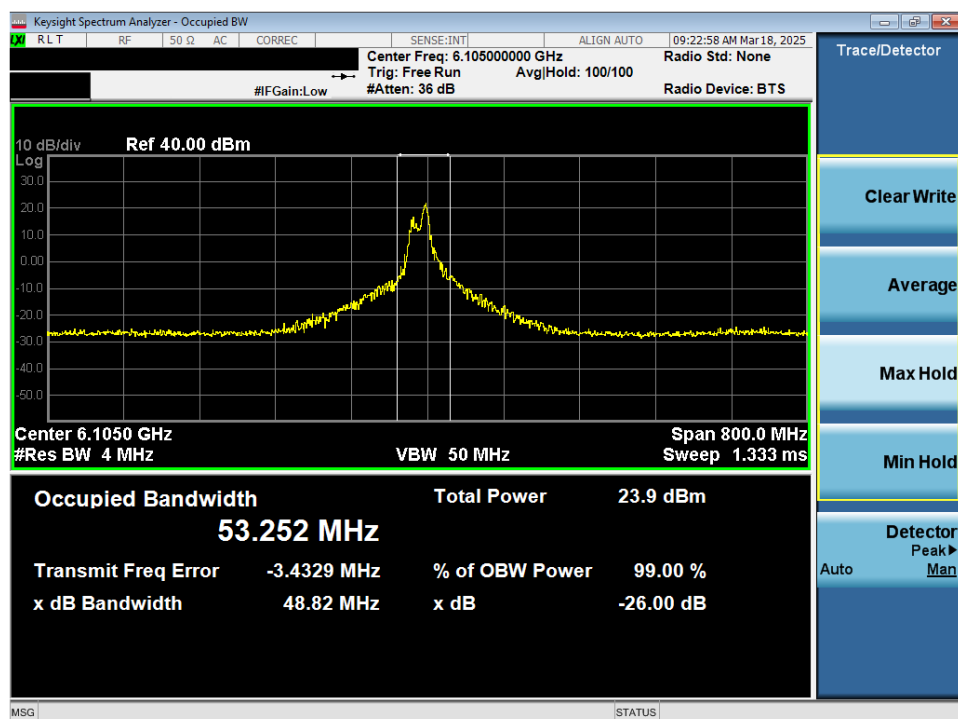


Plot 7-34. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 44 of 158                    |

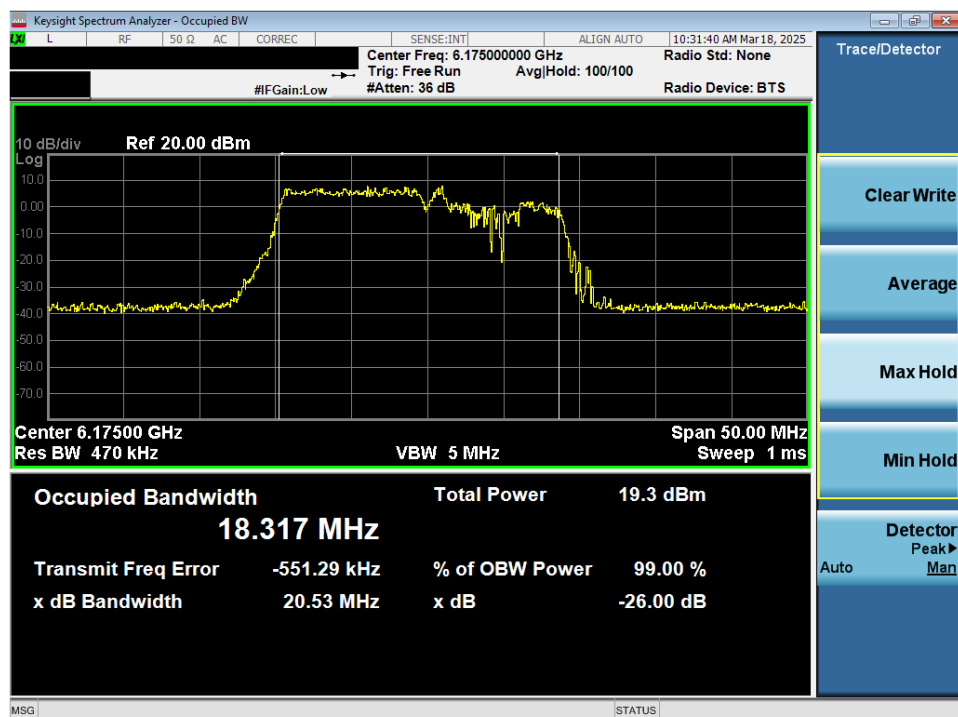


Plot 7-35. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - SP



Plot 7-36. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - SP

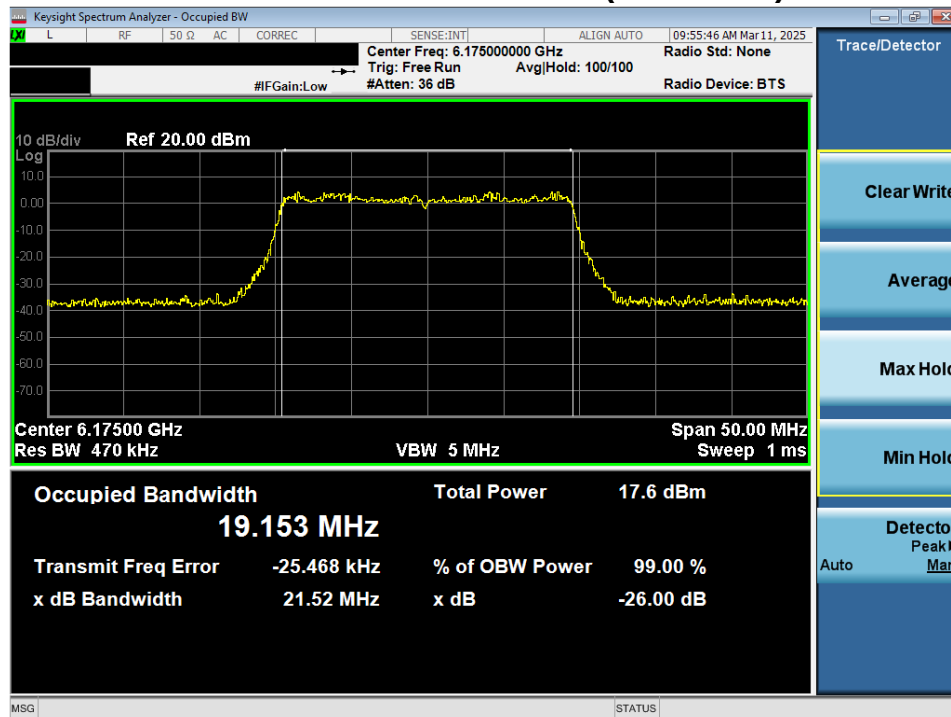
|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 45 of 158                    |



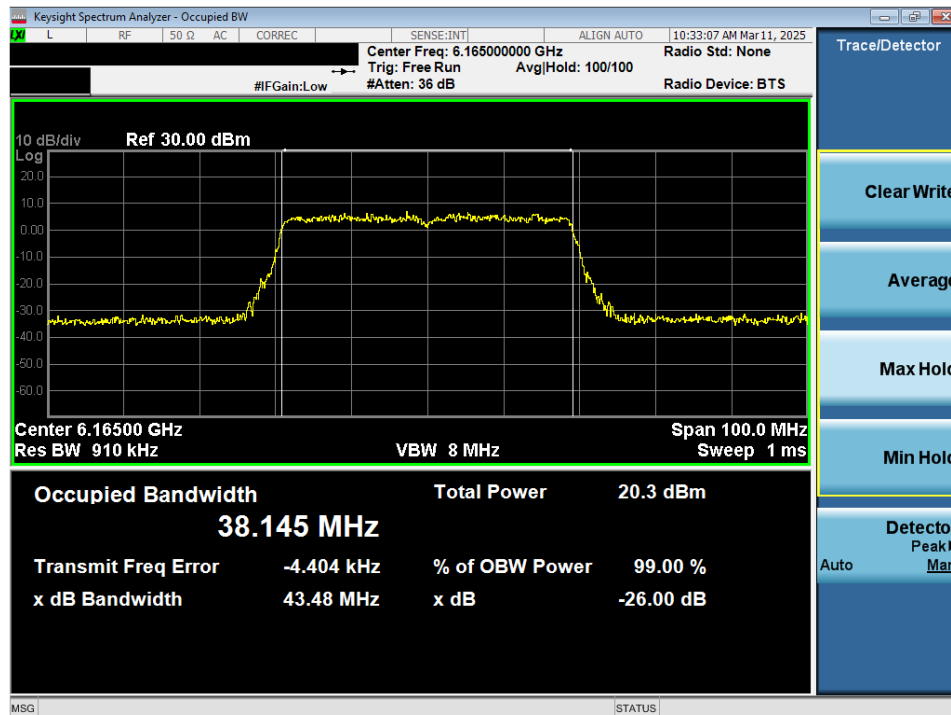
Plot 7-37. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11be (106+26 Tones) (UNII Band 5) – Ch. 45) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 46 of 158                    |

## 7.2.4 MIMO Antenna-2 Bandwidth Measurements – (Full Tones)

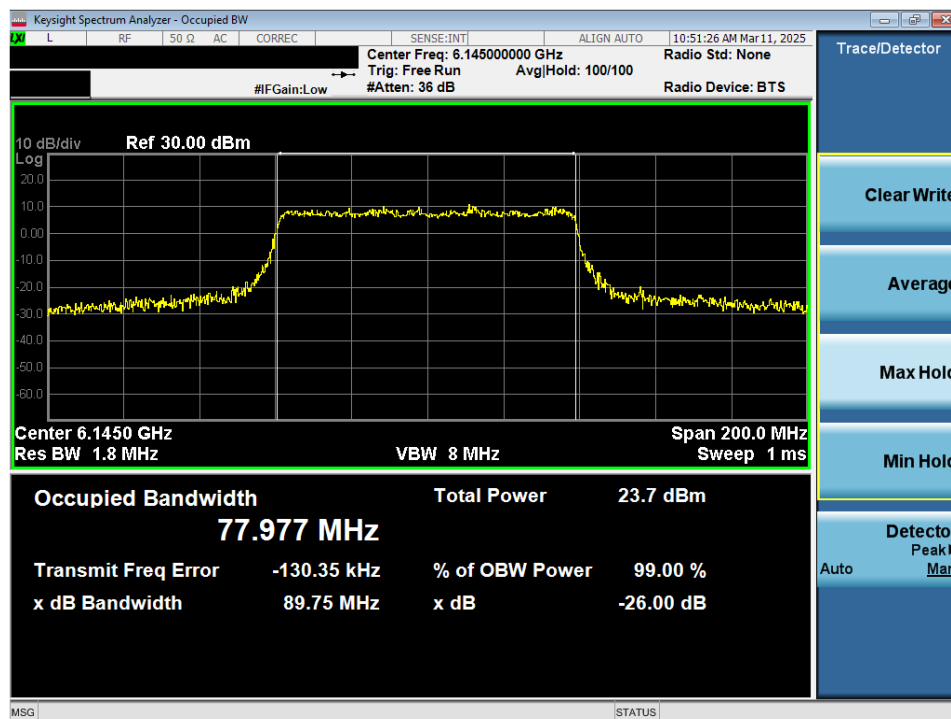


Plot 7-38. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - LPI

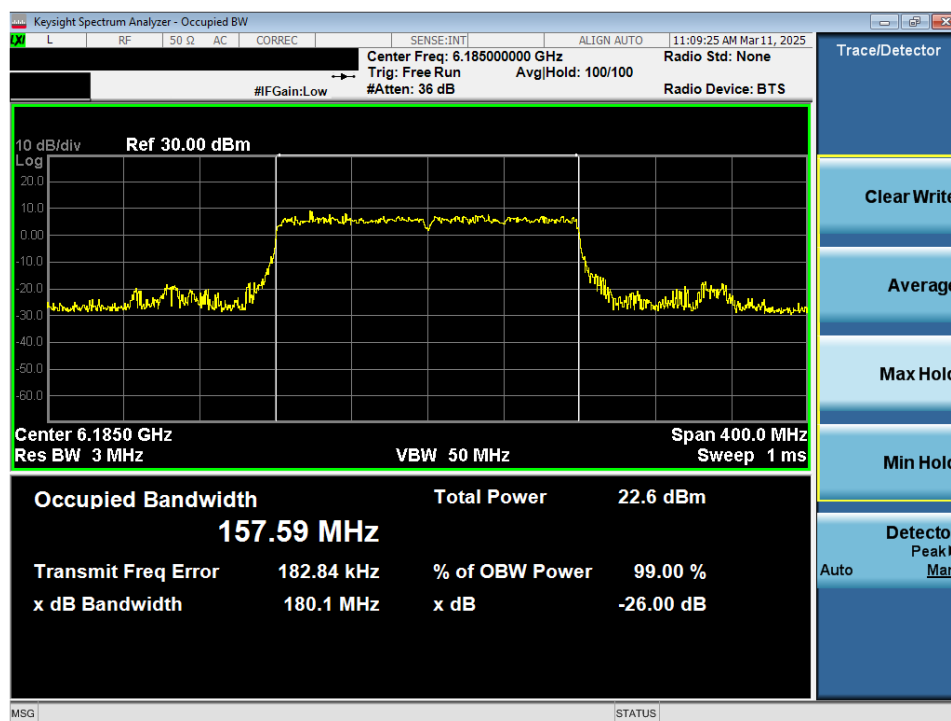


Plot 7-39. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 47 of 158                    |

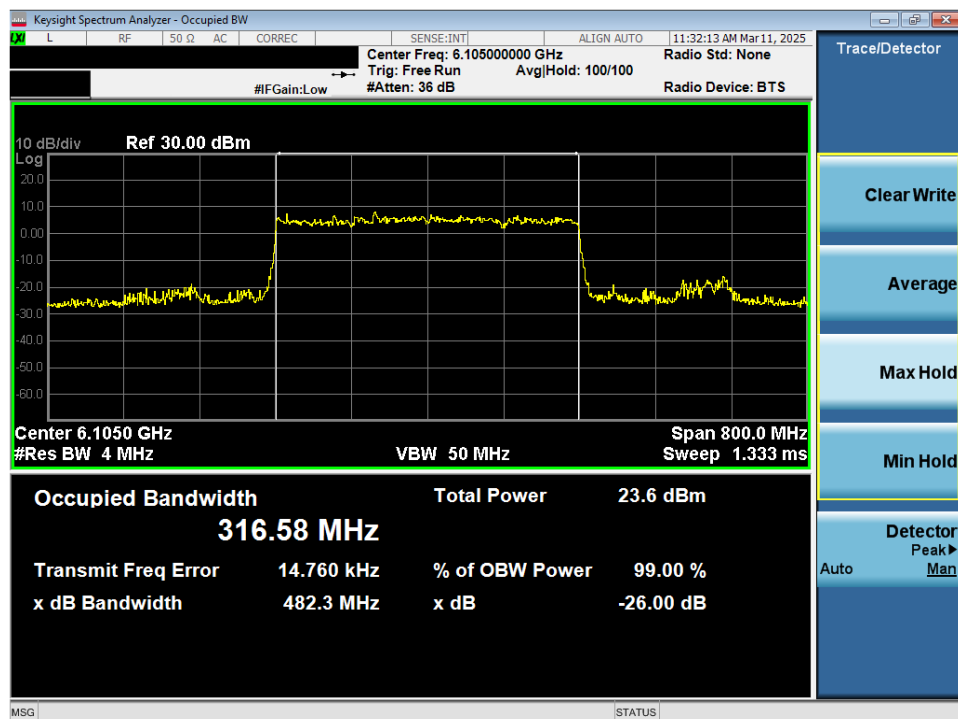


Plot 7-40. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 39) - LPI/SP



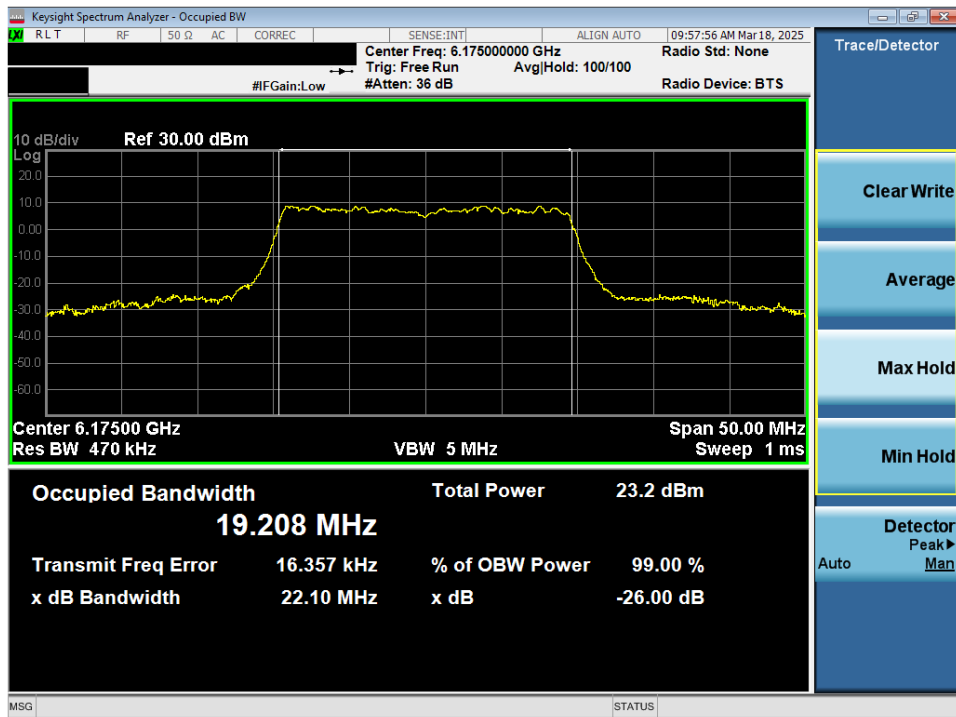
Plot 7-41. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 47) - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 48 of 158                    |

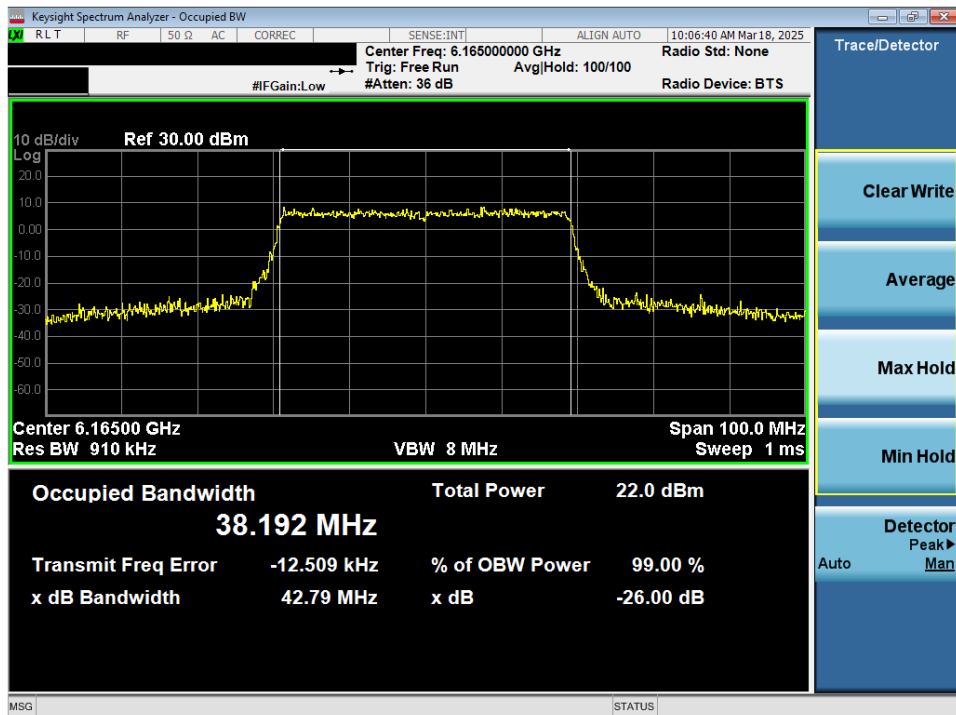


Plot 7-42. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 31) - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 49 of 158                    |



Plot 7-43. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - SP



Plot 7-44. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 50 of 158                    |

## 7.3 UNII Output Power Measurement

### Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies.

**For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm. For client devices operating under the control of a standard power access point, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.**

### Test Procedure Used

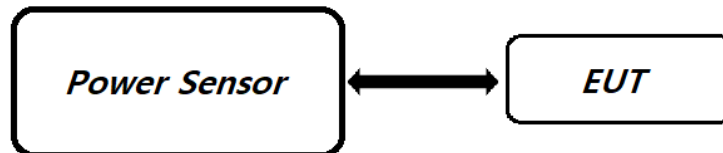
ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G  
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

### Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-2. Test Instrument & Measurement Setup**

### Test Notes

Compliance for this device while operating under the control of either an indoor low power access point or a standard power access point is demonstrated by applying the tighter low power indoor access point limit of 24dBm e.i.r.p. for cases where LPI and SP power targets are identical.

The manufacturer assigns MRU target powers as such:

EHT320 Target power → RU 4\*996  
 EHT160 Target power → RU2\*996 / MRU 2\*996+484 / MRU 3\*996 / MRU3\*996+484  
 EHT80 Target power → RU996 / MRU996+484 / MRU996+484+242  
 EHT40 Target power → RU484 / MRU 484+242  
 EHT20 Target power → RU242  
 RU106 = RU106 / MRU106+26  
 RU52 = RU52 / MRU 52+26  
 RU26 = RU26

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 51 of 158                           |

## SISO Maximum Conducted Output Power Measurements (26 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |       |                 |                   |                     |                     |
|          |      |            |         |       | 0                         | 4     | 8     |                 |                   |                     |                     |
|          |      |            |         |       |                           |       |       |                 |                   |                     |                     |
| 5        | 5935 | 2          | 26T     | -0.50 | -0.79                     | -0.32 | -4.49 | -4.81           | 24.0              | -28.81              |                     |
|          | 6175 | 45         | 26T     | -0.51 | -0.84                     | -0.28 | -4.49 | -4.77           | 24.0              | -28.77              |                     |
|          | 6415 | 93         | 26T     | -0.42 | -0.73                     | -0.23 | -4.49 | -4.72           | 24.0              | -28.72              |                     |
| 6        | 6435 | 97         | 26T     | -0.31 | -0.66                     | -0.27 | -7.13 | -7.40           | 24.0              | -31.40              |                     |
|          | 6475 | 105        | 26T     | -0.88 | -0.28                     | -0.89 | -7.13 | -7.41           | 24.0              | -31.41              |                     |
|          | 6515 | 113        | 26T     | -0.16 | -0.53                     | -0.05 | -7.13 | -7.18           | 24.0              | -31.18              |                     |
| 7        | 6535 | 117        | 26T     | -0.04 | -0.15                     | -0.01 | -5.98 | -5.99           | 24.0              | -29.99              |                     |
|          | 6695 | 149        | 26T     | -0.41 | -0.94                     | -0.44 | -5.98 | -6.39           | 24.0              | -30.39              |                     |
|          | 6875 | 185        | 26T     | -0.49 | -0.09                     | -0.79 | -5.98 | -6.07           | 24.0              | -30.07              |                     |
| 8        | 6895 | 189        | 26T     | -0.46 | -1.04                     | -0.72 | -5.98 | -6.44           | 24.0              | -30.44              |                     |
|          | 6995 | 209        | 26T     | -0.52 | -1.01                     | -0.60 | -5.98 | -6.50           | 24.0              | -30.50              |                     |
|          | 7115 | 233        | 26T     | -0.49 | -0.54                     | -0.24 | -5.98 | -6.22           | 24.0              | -30.22              |                     |

Table 7-8. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |        | Ant. Gain [dB] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|--------|----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |        |                |                   |                     |                     |
|          |      |            |         |       | 0                         | 4     | 8      |                |                   |                     |                     |
|          | 5    | 5935       | 2       | 26T   | -0.13                     | -0.52 | -0.13  | -8.02          | -8.15             | 24.0                | -32.15              |
| 6175     |      | 45         | 26T     | -0.70 | -0.63                     | -0.23 | -8.02  | -8.25          | 24.0              | -32.25              |                     |
| 6415     |      | 93         | 26T     | -0.49 | -0.39                     | -0.09 | -8.02  | -8.11          | 24.0              | -32.11              |                     |
| 6        | 6435 | 97         | 26T     | -0.13 | -0.54                     | -0.22 | -10.74 | -10.87         | 24.0              | -34.87              |                     |
|          | 6475 | 105        | 26T     | -0.43 | -0.80                     | -0.42 | -10.74 | -11.16         | 24.0              | -35.16              |                     |
|          | 6515 | 113        | 26T     | -0.15 | -0.57                     | -0.23 | -10.74 | -10.89         | 24.0              | -34.89              |                     |
| 7        | 6535 | 117        | 26T     | -0.37 | -0.32                     | -0.01 | -5.99  | -6.00          | 24.0              | -30.00              |                     |
|          | 6695 | 149        | 26T     | -0.33 | -0.67                     | -0.15 | -5.99  | -6.14          | 24.0              | -30.14              |                     |
|          | 6875 | 185        | 26T     | -0.16 | -0.51                     | -0.52 | -5.99  | -6.15          | 24.0              | -30.15              |                     |
| 8        | 6895 | 189        | 26T     | -0.01 | -0.28                     | -0.22 | -4.25  | -4.26          | 24.0              | -28.26              |                     |
|          | 6995 | 209        | 26T     | -0.37 | -0.19                     | -0.15 | -4.25  | -4.40          | 24.0              | -28.40              |                     |
|          | 7115 | 233        | 26T     | -0.45 | -0.33                     | -0.36 | -4.25  | -4.58          | 24.0              | -28.58              |                     |

Table 7-9. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |       |                 |                   |                     |                     |
|          |      |            |         |       | 0                         | 4     | 8     |                 |                   |                     |                     |
|          | 5    | 5935       | 2       | 26T   | 3.82                      | 3.42  | 3.9   | -4.49           | -0.60             | 24.0                | -24.60              |
|          |      | 6175       | 45      | 26T   | 11.30                     | 11.39 | 11.27 | -4.49           | 6.90              | 24.0                | -17.10              |
|          |      | 6415       | 93      | 26T   | 11.35                     | 11.46 | 11.23 | -4.49           | 6.97              | 24.0                | -17.03              |
|          | 7    | 6535       | 117     | 26T   | 9.70                      | 9.27  | 9.72  | -5.98           | 3.74              | 24.0                | -20.26              |
|          |      | 6695       | 149     | 26T   | 9.99                      | 9.52  | 9.88  | -5.98           | 4.01              | 24.0                | -19.99              |

Table 7-10. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |       |                 |                   |                     |                     |
|          |      |            |         |       | 0                         | 4     | 8     |                 |                   |                     |                     |
|          |      |            |         |       | 0                         | 4     | 8     |                 |                   |                     |                     |
|          | 5    | 5935       | 2       | 26T   | 3.91                      | 3.46  | 3.82  | -8.02           | -4.11             | 24.0                | -28.11              |
|          |      | 6175       | 45      | 26T   | 11.30                     | 11.33 | 11.24 | -8.02           | 3.31              | 24.0                | -20.69              |
|          |      | 6415       | 93      | 26T   | 11.27                     | 10.88 | 11.22 | -8.02           | 3.25              | 24.0                | -20.75              |
|          | 7    | 6535       | 117     | 26T   | 9.88                      | 9.39  | 9.73  | -5.99           | 3.89              | 24.0                | -20.11              |
|          |      | 6695       | 149     | 26T   | 9.78                      | 9.30  | 9.68  | -5.99           | 3.79              | 24.0                | -20.21              |

Table 7-11. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 52 of 158                    |

## SISO Maximum Conducted Output Power Measurements (52 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |      |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |      |       |                 |                   |                     |                     |
|          |      |            |         |       | 37                        | 38   | 40    |                 |                   |                     |                     |
|          | 5    | 5935       | 2       | 52T   | 2.89                      | 2.66 | 2.85  | -4.49           | -1.60             | 24.0                | -25.60              |
| 6175     |      | 45         | 52T     | 2.51  | 2.63                      | 2.82 | -4.49 | -1.67           | 24.0              | -25.67              |                     |
| 6415     |      | 93         | 52T     | 2.92  | 2.51                      | 2.66 | -4.49 | -1.57           | 24.0              | -25.57              |                     |
| 6        | 6435 | 97         | 52T     | 2.53  | 2.14                      | 2.32 | -7.13 | -4.60           | 24.0              | -28.60              |                     |
|          | 6475 | 105        | 52T     | 2.72  | 2.38                      | 2.51 | -7.13 | -4.41           | 24.0              | -28.41              |                     |
|          | 6515 | 113        | 52T     | 2.53  | 2.13                      | 2.43 | -7.13 | -4.60           | 24.0              | -28.60              |                     |
| 7        | 6535 | 117        | 52T     | 2.41  | 2.23                      | 2.45 | -5.98 | -3.53           | 24.0              | -27.53              |                     |
|          | 6695 | 149        | 52T     | 2.49  | 2.16                      | 2.47 | -5.98 | -3.49           | 24.0              | -27.49              |                     |
|          | 6875 | 185        | 52T     | 2.40  | 2.23                      | 2.51 | -5.98 | -3.47           | 24.0              | -27.47              |                     |
| 8        | 6895 | 189        | 52T     | 2.37  | 2.18                      | 2.40 | -5.98 | -3.58           | 24.0              | -27.58              |                     |
|          | 6995 | 209        | 52T     | 2.58  | 2.38                      | 2.62 | -5.98 | -3.36           | 24.0              | -27.36              |                     |
|          | 7115 | 233        | 52T     | 2.44  | 2.54                      | 2.33 | -5.98 | -3.44           | 24.0              | -27.44              |                     |

Table 7-12. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |      |        | Ant. Gain [dB] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|------|--------|----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |      |        |                |                   |                     |                     |
|          |      |            |         |       | 37                        | 38   | 40     |                |                   |                     |                     |
|          | 5    | 5935       | 2       | 52T   | 2.08                      | 2.41 | 2.28   | -8.02          | -5.61             | 24.0                | -29.61              |
| 6175     |      | 45         | 52T     | 2.37  | 2.31                      | 2.08 | -8.02  | -5.65          | 24.0              | -29.65              |                     |
| 6415     |      | 93         | 52T     | 2.28  | 2.21                      | 2.45 | -8.02  | -5.57          | 24.0              | -29.57              |                     |
| 6        | 6435 | 97         | 52T     | 2.25  | 2.01                      | 2.01 | -10.74 | -8.49          | 24.0              | -32.49              |                     |
|          | 6475 | 105        | 52T     | 2.03  | 2.11                      | 2.17 | -10.74 | -8.57          | 24.0              | -32.57              |                     |
|          | 6515 | 113        | 52T     | 2.30  | 2.04                      | 2.27 | -10.74 | -8.44          | 24.0              | -32.44              |                     |
| 7        | 6535 | 117        | 52T     | 2.24  | 2.18                      | 2.32 | -5.99  | -3.67          | 24.0              | -27.67              |                     |
|          | 6695 | 149        | 52T     | 2.20  | 2.49                      | 2.29 | -5.99  | -3.50          | 24.0              | -27.50              |                     |
|          | 6875 | 185        | 52T     | 2.65  | 2.93                      | 2.61 | -5.99  | -3.06          | 24.0              | -27.06              |                     |
| 8        | 6895 | 189        | 52T     | 2.21  | 2.87                      | 2.73 | -4.25  | -1.38          | 24.0              | -25.38              |                     |
|          | 6995 | 209        | 52T     | 2.05  | 2.58                      | 2.38 | -4.25  | -1.67          | 24.0              | -25.67              |                     |
|          | 7115 | 233        | 52T     | 2.44  | 2.54                      | 2.33 | -4.25  | -1.71          | 24.0              | -25.71              |                     |

Table 7-13. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |       |                 |                   |                     |                     |
|          |      |            |         |       | 37                        | 39    | 40    |                 |                   |                     |                     |
|          | 5    | 5935       | 2       | 52T   | 5.73                      | 5.56  | 5.8   | -4.49           | 1.31              | 24.0                | -22.69              |
| 6175     |      | 45         | 52T     | 13.65 | 13.91                     | 13.59 | -4.49 | 9.42            | 24.0              | -14.58              |                     |
| 6415     |      | 93         | 52T     | 13.75 | 13.90                     | 13.55 | -4.49 | 9.41            | 24.0              | -14.59              |                     |
| 7        | 6535 | 117        | 52T     | 13.81 | 13.90                     | 13.60 | -5.98 | 7.92            | 24.0              | -16.08              |                     |
|          | 6695 | 149        | 52T     | 13.75 | 13.93                     | 13.59 | -5.98 | 7.95            | 24.0              | -16.05              |                     |

Table 7-14. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |       |                 |                   |                     |                     |
|          |      |            |         |       | 37                        | 39    | 40    |                 |                   |                     |                     |
|          |      |            |         |       |                           |       |       |                 |                   |                     |                     |
|          | 5    | 5935       | 2       | 52T   | 5.76                      | 5.56  | 5.74  | -8.02           | -2.26             | 24.0                | -26.26              |
|          |      | 6175       | 45      | 52T   | 13.60                     | 13.40 | 13.55 | -8.02           | 5.58              | 24.0                | -18.42              |
|          |      | 6415       | 93      | 52T   | 13.60                     | 13.37 | 13.49 | -8.02           | 5.58              | 24.0                | -18.42              |
|          | 7    | 6535       | 117     | 52T   | 13.75                     | 13.45 | 13.62 | -5.99           | 7.76              | 24.0                | -16.24              |
|          |      | 6695       | 149     | 52T   | 13.55                     | 13.18 | 13.34 | -5.99           | 7.56              | 24.0                | -16.44              |

Table 7-15. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 53 of 158                    |

## SISO Maximum Conducted Output Power Measurements (106 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |                 |                   |                     |                     |
|          |      |            |         |       | 53                        | 54    |                 |                   |                     |                     |
|          |      | 5935       | 2       | 106T  | 5.50                      | 5.44  | -4.49           | 1.01              | 24.0                | -22.99              |
|          | 6175 | 45         | 106T    | 5.60  | 5.56                      | -4.49 | 1.11            | 24.0              | -22.89              |                     |
|          | 6415 | 93         | 106T    | 5.75  | 5.59                      | -4.49 | 1.26            | 24.0              | -22.74              |                     |
| 6        | 6435 | 97         | 106T    | 5.48  | 5.31                      | -7.13 | -1.65           | 24.0              | -25.65              |                     |
|          | 6475 | 105        | 106T    | 5.67  | 5.56                      | -7.13 | -1.46           | 24.0              | -25.46              |                     |
|          | 6515 | 113        | 106T    | 5.56  | 5.45                      | -7.13 | -1.57           | 24.0              | -25.57              |                     |
| 7        | 6535 | 117        | 106T    | 5.06  | 5.08                      | -5.98 | -0.90           | 24.0              | -24.90              |                     |
|          | 6695 | 149        | 106T    | 5.10  | 5.18                      | -5.98 | -0.80           | 24.0              | -24.80              |                     |
|          | 6875 | 185        | 106T    | 5.17  | 5.25                      | -5.98 | -0.73           | 24.0              | -24.73              |                     |
| 8        | 6895 | 189        | 106T    | 5.06  | 5.06                      | -5.98 | -0.92           | 24.0              | -24.92              |                     |
|          | 6995 | 209        | 106T    | 5.53  | 5.52                      | -5.98 | -0.45           | 24.0              | -24.45              |                     |
|          | 7115 | 233        | 106T    | 5.42  | 5.69                      | -5.98 | -0.29           | 24.0              | -24.29              |                     |

Table 7-16. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |        | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|--------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |        |                 |                   |                     |                     |
|          |      |            |         |       | 53                        | 54     |                 |                   |                     |                     |
|          |      | 5935       | 2       | 106T  | 5.45                      | 5.12   | -8.02           | -2.57             | 24.0                | -26.57              |
|          | 6175 | 45         | 106T    | 5.41  | 5.00                      | -8.02  | -2.61           | 24.0              | -26.61              |                     |
|          | 6415 | 93         | 106T    | 5.48  | 5.04                      | -8.02  | -2.54           | 24.0              | -26.54              |                     |
| 6        | 6435 | 97         | 106T    | 5.34  | 4.97                      | -10.74 | -5.40           | 24.0              | -29.40              |                     |
|          | 6475 | 105        | 106T    | 5.47  | 5.05                      | -10.74 | -5.27           | 24.0              | -29.27              |                     |
|          | 6515 | 113        | 106T    | 5.12  | 5.10                      | -10.74 | -5.62           | 24.0              | -29.62              |                     |
| 7        | 6535 | 117        | 106T    | 5.25  | 5.02                      | -5.99  | -0.74           | 24.0              | -24.74              |                     |
|          | 6695 | 149        | 106T    | 5.38  | 5.42                      | -5.99  | -0.57           | 24.0              | -24.57              |                     |
|          | 6875 | 185        | 106T    | 5.48  | 5.54                      | -5.99  | -0.45           | 24.0              | -24.45              |                     |
| 8        | 6895 | 189        | 106T    | 5.29  | 5.53                      | -4.25  | 1.28            | 24.0              | -22.72              |                     |
|          | 6995 | 209        | 106T    | 5.36  | 5.08                      | -4.25  | 1.11            | 24.0              | -22.89              |                     |
|          | 7115 | 233        | 106T    | 5.29  | 5.55                      | -4.25  | 1.30            | 24.0              | -22.70              |                     |

Table 7-17. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |                 |                   |                     |                     |
|          |      |            |         |       | 53                        | 54    |                 |                   |                     |                     |
|          |      |            |         |       | 5                         | 5935  |                 |                   |                     |                     |
|          | 6175 | 45         | 106T    | 13.50 | 13.52                     | -4.49 | 9.03            | 24.0              | -14.97              |                     |
|          | 6415 | 93         | 106T    | 13.65 | 13.99                     | -4.49 | 9.50            | 24.0              | -14.50              |                     |
|          | 7    | 6535       | 117     | 106T  | 13.70                     | 13.50 | -5.98           | 7.72              | 24.0                | -16.28              |
|          |      | 6695       | 149     | 106T  | 13.60                     | 13.52 | -5.98           | 7.62              | 24.0                | -16.38              |

Table 7-18. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                  |       |                 |                   |                     |                     |
|          |      |            |         |       | 53                        | 54    |                 |                   |                     |                     |
|          |      |            |         |       | 5                         | 5935  |                 |                   |                     |                     |
| 6175     | 45   | 106T       | 13.98   | 13.90 |                           | -8.02 | 5.96            | 24.0              | -18.04              |                     |
| 6415     | 93   | 106T       | 13.49   | 13.43 |                           | -8.02 | 5.47            | 24.0              | -18.53              |                     |
| 7        | 6535 | 117        | 106T    | 13.66 | 13.54                     | -5.99 | 7.67            | 24.0              | -16.33              |                     |
|          | 6695 | 149        | 106T    | 13.35 | 13.30                     | -5.99 | 7.36            | 24.0              | -16.64              |                     |

Table 7-19. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

|                                            |                                        |                               |  |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset |  | Page 54 of 158                    |

## SISO Maximum Conducted Output Power Measurements (242 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 61            |                 |                   |                     |                     |
| 20MHz BW | 5    | 5935       | 2       | 242T  | 9.63          | -4.49           | 5.14              | 24.0                | -18.86              |
|          |      | 6175       | 45      | 242T  | 10.48         | -4.49           | 5.99              | 24.0                | -18.01              |
|          |      | 6415       | 93      | 242T  | 10.71         | -4.49           | 6.22              | 24.0                | -17.78              |
|          | 6    | 6435       | 97      | 242T  | 10.41         | -7.13           | 3.28              | 24.0                | -20.72              |
|          |      | 6475       | 105     | 242T  | 10.52         | -7.13           | 3.39              | 24.0                | -20.61              |
|          |      | 6515       | 113     | 242T  | 10.39         | -7.13           | 3.26              | 24.0                | -20.74              |
|          | 7    | 6535       | 117     | 242T  | 10.51         | -5.98           | 4.53              | 24.0                | -19.47              |
|          |      | 6695       | 149     | 242T  | 10.03         | -5.98           | 4.05              | 24.0                | -19.95              |
|          |      | 6875       | 185     | 242T  | 10.07         | -5.98           | 4.09              | 24.0                | -19.91              |
|          | 8    | 6895       | 189     | 242T  | 10.01         | -5.98           | 4.03              | 24.0                | -19.97              |
|          |      | 6995       | 209     | 242T  | 10.28         | -5.98           | 4.30              | 24.0                | -19.70              |
|          |      | 7115       | 233     | 242T  | 10.23         | -5.98           | 4.25              | 24.0                | -19.75              |

Table 7-20. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 61            |                 |                   |                     |                     |
| 20MHz BW | 5    | 5935       | 2       | 242T  | 9.55          | -8.02           | 1.53              | 24.0                | -22.47              |
|          |      | 6175       | 45      | 242T  | 10.25         | -8.02           | 2.23              | 24.0                | -21.77              |
|          |      | 6415       | 93      | 242T  | 10.25         | -8.02           | 2.23              | 24.0                | -21.77              |
|          | 6    | 6435       | 97      | 242T  | 10.13         | -10.74          | -0.61             | 24.0                | -24.61              |
|          |      | 6475       | 105     | 242T  | 10.17         | -10.74          | -0.57             | 24.0                | -24.57              |
|          |      | 6515       | 113     | 242T  | 10.19         | -10.74          | -0.55             | 24.0                | -24.55              |
|          | 7    | 6535       | 117     | 242T  | 10.38         | -5.99           | 4.39              | 24.0                | -19.61              |
|          |      | 6695       | 149     | 242T  | 10.08         | -5.99           | 4.09              | 24.0                | -19.91              |
|          |      | 6875       | 185     | 242T  | 10.19         | -5.99           | 4.20              | 24.0                | -19.80              |
|          | 8    | 6895       | 189     | 242T  | 10.09         | -4.25           | 5.84              | 24.0                | -18.16              |
|          |      | 6995       | 209     | 242T  | 10.36         | -4.25           | 6.11              | 24.0                | -17.89              |
|          |      | 7115       | 233     | 242T  | 10.23         | -4.25           | 5.98              | 24.0                | -18.02              |

Table 7-21. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 61            |                 |                   |                     |                     |
| 20MHz BW | 5    | 5935       | 2       | 242T  | 9.66          | -4.49           | 5.17              | 24.0                | -18.83              |
|          |      | 6175       | 45      | 242T  | 16.79         | -4.49           | 12.30             | 24.0                | -11.70              |
|          |      | 6415       | 93      | 242T  | 16.70         | -4.49           | 12.21             | 24.0                | -11.79              |
|          | 7    | 6535       | 117     | 242T  | 16.77         | -5.98           | 10.79             | 24.0                | -13.21              |
|          |      | 6695       | 149     | 242T  | 16.77         | -5.98           | 10.79             | 24.0                | -13.21              |

Table 7-22. SISO ANT1 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 61            |                 |                   |                     |                     |
| 20MHz BW | 5    | 5935       | 2       | 242T  | 9.98          | -8.02           | 1.96              | 24.0                | -22.04              |
|          |      | 6175       | 45      | 242T  | 16.85         | -8.02           | 8.83              | 24.0                | -15.17              |
|          |      | 6415       | 93      | 242T  | 16.28         | -8.02           | 8.26              | 24.0                | -15.74              |
|          | 7    | 6535       | 117     | 242T  | 16.34         | -5.99           | 10.35             | 24.0                | -13.65              |
|          |      | 6695       | 149     | 242T  | 16.02         | -5.99           | 10.03             | 24.0                | -13.97              |

Table 7-23. SISO ANT2 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 55 of 158                    |

## SISO Maximum Conducted Output Power Measurements (484 Tones)

| 40MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 65            |                 |                   |                     |                     |
| 40MHz BW | 5    | 5965       | 3       | 484T  | 12.80         | -4.49           | 8.31              | 24.0                | -15.69              |
|          |      | 6165       | 43      | 484T  | 12.66         | -4.49           | 8.17              | 24.0                | -15.83              |
|          |      | 6405       | 91      | 484T  | 12.89         | -4.49           | 8.40              | 24.0                | -15.60              |
|          | 6    | 6445       | 99      | 484T  | 12.82         | -7.13           | 5.69              | 24.0                | -18.31              |
|          |      | 6485       | 107     | 484T  | 12.58         | -7.13           | 5.45              | 24.0                | -18.55              |
|          |      | 6525       | 115     | 484T  | 12.71         | -7.13           | 5.58              | 24.0                | -18.42              |
|          | 7    | 6565       | 123     | 484T  | 12.51         | -5.98           | 6.53              | 24.0                | -17.47              |
|          |      | 6725       | 155     | 484T  | 12.04         | -5.98           | 6.06              | 24.0                | -17.94              |
|          |      | 6845       | 179     | 484T  | 12.39         | -5.98           | 6.41              | 24.0                | -17.59              |
|          | 8    | 6885       | 187     | 484T  | 11.95         | -5.98           | 5.97              | 24.0                | -18.03              |
|          |      | 7005       | 211     | 484T  | 12.35         | -5.98           | 6.37              | 24.0                | -17.63              |
|          |      | 7085       | 227     | 484T  | 12.21         | -5.98           | 6.23              | 24.0                | -17.77              |

Table 7-24. SISO ANT1 40MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 40MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 65            |                 |                   |                     |                     |
| 40MHz BW | 5    | 5965       | 3       | 484T  | 12.86         | -8.02           | 4.84              | 24.0                | -19.16              |
|          |      | 6165       | 43      | 484T  | 12.22         | -8.02           | 4.20              | 24.0                | -19.80              |
|          |      | 6405       | 91      | 484T  | 12.32         | -8.02           | 4.30              | 24.0                | -19.70              |
|          | 6    | 6445       | 99      | 484T  | 12.55         | -10.74          | 1.81              | 24.0                | -22.19              |
|          |      | 6485       | 107     | 484T  | 12.47         | -10.74          | 1.73              | 24.0                | -22.27              |
|          |      | 6525       | 115     | 484T  | 12.65         | -10.74          | 1.91              | 24.0                | -22.09              |
|          | 7    | 6565       | 123     | 484T  | 12.71         | -5.99           | 6.72              | 24.0                | -17.28              |
|          |      | 6725       | 155     | 484T  | 12.91         | -5.99           | 6.92              | 24.0                | -17.08              |
|          |      | 6845       | 179     | 484T  | 12.53         | -5.99           | 6.54              | 24.0                | -17.46              |
|          | 8    | 6885       | 187     | 484T  | 12.11         | -4.25           | 7.86              | 24.0                | -16.14              |
|          |      | 7005       | 211     | 484T  | 12.09         | -4.25           | 7.84              | 24.0                | -16.16              |
|          |      | 7085       | 227     | 484T  | 12.30         | -4.25           | 8.05              | 24.0                | -15.95              |

Table 7-25. SISO ANT2 40MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI

| 40MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 65            |                 |                   |                     |                     |
| 40MHz BW | 5    | 5965       | 3       | 484T  | 16.98         | -4.49           | 12.49             | 24.0                | -11.51              |
|          |      | 6165       | 43      | 484T  | 16.60         | -4.49           | 12.11             | 24.0                | -11.89              |
|          |      | 6405       | 91      | 484T  | 16.57         | -4.49           | 12.08             | 24.0                | -11.92              |
|          | 7    | 6565       | 123     | 484T  | 16.50         | -5.98           | 10.52             | 24.0                | -13.48              |
|          |      | 6685       | 147     | 484T  | 16.62         | -5.98           | 10.64             | 24.0                | -13.36              |

Table 7-26. SISO ANT1 40MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

| 40MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 65            |                 |                   |                     |                     |
| 40MHz BW | 5    | 5965       | 3       | 484T  | 16.84         | -8.02           | 8.82              | 24.0                | -15.18              |
|          |      | 6165       | 43      | 484T  | 16.65         | -8.02           | 8.63              | 24.0                | -15.37              |
|          |      | 6405       | 91      | 484T  | 16.25         | -8.02           | 8.23              | 24.0                | -15.77              |
|          | 7    | 6565       | 123     | 484T  | 16.34         | -5.99           | 10.35             | 24.0                | -13.65              |
|          |      | 6685       | 147     | 484T  | 16.37         | -5.99           | 10.38             | 24.0                | -13.62              |

Table 7-27. SISO ANT2 40MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 56 of 158                    |

## SISO Maximum Conducted Output Power Measurements (996 Tones)

| 80MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 67            |                 |                   |                     |                     |
| 80MHz BW | 5    | 5985       | 7       | 996T  | 15.86         | -4.49           | 11.37             | 24.0                | -12.63              |
|          |      | 6145       | 39      | 996T  | 15.54         | -4.49           | 11.05             | 24.0                | -12.95              |
|          |      | 6385       | 87      | 996T  | 15.67         | -4.49           | 11.18             | 24.0                | -12.82              |
|          | 6    | 6465       | 103     | 996T  | 15.80         | -7.13           | 8.67              | 24.0                | -15.33              |
|          |      | 6545       | 119     | 996T  | 15.56         | -5.98           | 9.58              | 24.0                | -14.42              |
|          | 7    | 6705       | 151     | 996T  | 15.15         | -5.98           | 9.17              | 24.0                | -14.83              |
|          |      | 6865       | 183     | 996T  | 15.44         | -5.98           | 9.46              | 24.0                | -14.54              |
|          |      | 6945       | 199     | 996T  | 15.44         | -5.98           | 9.46              | 24.0                | -14.54              |
|          | 8    | 7025       | 215     | 996T  | 15.34         | -5.98           | 9.36              | 24.0                | -14.64              |

Table 7-28. SISO ANT1 80MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI/SP

| 80MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index      |                 |                   |                     |                     |
|          |      |            |         |       | 67            |                 |                   |                     |                     |
| 80MHz BW | 5    | 5985       | 7       | 996T  | 15.72         | -8.02           | 7.70              | 24.0                | -16.30              |
|          |      | 6145       | 39      | 996T  | 15.45         | -8.02           | 7.43              | 24.0                | -16.57              |
|          |      | 6385       | 87      | 996T  | 15.19         | -8.02           | 7.17              | 24.0                | -16.83              |
|          | 6    | 6465       | 103     | 996T  | 15.47         | -10.74          | 4.73              | 24.0                | -19.27              |
|          |      | 6545       | 119     | 996T  | 15.07         | -5.99           | 9.08              | 24.0                | -14.92              |
|          | 7    | 6705       | 151     | 996T  | 15.32         | -5.99           | 9.33              | 24.0                | -14.67              |
|          |      | 6865       | 183     | 996T  | 15.07         | -5.99           | 9.08              | 24.0                | -14.92              |
|          |      | 6945       | 199     | 996T  | 15.06         | -4.25           | 10.81             | 24.0                | -13.19              |
|          | 8    | 7025       | 215     | 996T  | 15.10         | -4.25           | 10.85             | 24.0                | -13.15              |

Table 7-29. SISO ANT2 80MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 57 of 158                    |

## SISO Maximum Conducted Output Power Measurements (2x996 Tones)

| 160MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg<br>Conducted<br>Power (dBm) | Ant. Gain<br>[dBi] | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|-----------|------|------------|---------|--------|---------------------------------|--------------------|----------------------|------------------------|------------------------|
|           |      |            |         |        | RU Index                        |                    |                      |                        |                        |
|           |      |            |         |        | 68                              |                    |                      |                        |                        |
|           | 5    | 6025       | 15      | 2x996T | 14.27                           | -4.49              | 9.78                 | 24.0                   | -14.22                 |
|           |      | 6185       | 47      | 2x996T | 14.46                           | -4.49              | 9.97                 | 24.0                   | -14.03                 |
|           |      | 6345       | 79      | 2x996T | 14.43                           | -4.49              | 9.94                 | 24.0                   | -14.06                 |
|           | 6    | 6505       | 111     | 2x996T | 14.55                           | -7.13              | 7.42                 | 24.0                   | -16.58                 |
|           | 7    | 6665       | 143     | 2x996T | 14.14                           | -5.98              | 8.16                 | 24.0                   | -15.84                 |
|           |      | 6825       | 175     | 2x996T | 14.22                           | -5.98              | 8.24                 | 24.0                   | -15.76                 |
|           | 8    | 6985       | 207     | 2x996T | 14.17                           | -5.98              | 8.19                 | 24.0                   | -15.81                 |

Table 7-30. SISO ANT1 160MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI/SP

| 160MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg<br>Conducted<br>Power (dBm) | Ant. Gain<br>[dBi] | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|-----------|------|------------|---------|--------|---------------------------------|--------------------|----------------------|------------------------|------------------------|
|           |      |            |         |        | RU Index                        |                    |                      |                        |                        |
|           |      |            |         |        | 68                              |                    |                      |                        |                        |
|           | 5    | 6025       | 15      | 2x996T | 14.46                           | -8.02              | 6.44                 | 24.0                   | -17.56                 |
|           |      | 6185       | 47      | 2x996T | 14.40                           | -8.02              | 6.38                 | 24.0                   | -17.62                 |
|           |      | 6345       | 79      | 2x996T | 14.14                           | -8.02              | 6.12                 | 24.0                   | -17.88                 |
|           | 6    | 6505       | 111     | 2x996T | 14.32                           | -10.74             | 3.58                 | 24.0                   | -20.42                 |
|           | 7    | 6665       | 143     | 2x996T | 14.04                           | -5.99              | 8.05                 | 24.0                   | -15.95                 |
|           |      | 6825       | 175     | 2x996T | 14.59                           | -5.99              | 8.60                 | 24.0                   | -15.40                 |
|           | 8    | 6985       | 207     | 2x996T | 14.59                           | -4.25              | 10.34                | 24.0                   | -13.66                 |

Table 7-31. SISO ANT2 160MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 58 of 158                    |

## SISO Maximum Conducted Output Power Measurements (4x996 Tones)

| 320MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|--------|---------------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |         |        | RU Index      |                 |                   |                     |                     |
|           |      |            |         |        | 69            |                 |                   |                     |                     |
| 320MHz BW | 5    | 6105       | 31      | 4x996T | 14.32         | -4.49           | 9.83              | 24.0                | -14.17              |
|           |      | 6265       | 63      | 4x996T | 14.44         | -4.49           | 9.95              | 24.0                | -14.05              |
|           | 6    | 6425       | 95      | 4x996T | 14.32         | -7.13           | 7.19              | 24.0                | -16.81              |
|           |      | 6585       | 127     | 4x996T | 14.52         | -5.98           | 8.54              | 24.0                | -15.46              |
|           | 7    | 6745       | 159     | 4x996T | 14.22         | -5.98           | 8.24              | 24.0                | -15.76              |
|           |      | 6905       | 191     | 4x996T | 14.69         | -5.98           | 8.71              | 24.0                | -15.29              |

Table 7-32. SISO ANT1 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|--------|---------------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |         |        | RU Index      |                 |                   |                     |                     |
|           |      |            |         |        | 69            |                 |                   |                     |                     |
| 320MHz BW | 5    | 6105       | 31      | 4x996T | 14.32         | -8.02           | 6.30              | 24.0                | -17.70              |
|           |      | 6265       | 63      | 4x996T | 14.44         | -8.02           | 6.42              | 24.0                | -17.58              |
|           | 6    | 6425       | 95      | 4x996T | 14.32         | -10.74          | 3.58              | 24.0                | -20.42              |
|           |      | 6585       | 127     | 4x996T | 14.52         | -5.99           | 8.53              | 24.0                | -15.47              |
|           | 7    | 6745       | 159     | 4x996T | 14.22         | -5.99           | 8.23              | 24.0                | -15.77              |
|           |      | 6905       | 191     | 4x996T | 14.69         | -4.25           | 10.44             | 24.0                | -13.56              |

Table 7-33. SISO ANT2 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 59 of 158                    |

## SISO Maximum Conducted Output Power Measurements (MRU)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted Power (dBm) |      |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|--------|---------------------------|------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |        | MRU Index                 |      |       |                 |                   |                     |                     |
|          |      |            |         |        | 70                        | 71   | 72    |                 |                   |                     |                     |
|          | 5    | 6175       | 45      | 52+26T | 2.70                      | 2.96 | 2.99  | -4.49           | -1.50             | 24.0                | -25.50              |
| 6        | 6475 | 105        | 52+26T  | 2.74   | 2.63                      | 2.68 | -7.13 | -4.39           | 24.0              | -28.39              |                     |
| 7        | 6695 | 149        | 52+26T  | 2.57   | 2.56                      | 2.72 | -5.98 | -3.26           | 24.0              | -27.26              |                     |
| 8        | 6995 | 209        | 52+26T  | 2.54   | 2.90                      | 2.99 | -5.98 | -2.99           | 24.0              | -26.99              |                     |

Table 7-34. SISO ANT1 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (52+26 Tones) – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted Power (dBm) |      |        | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|--------|---------------------------|------|--------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |        | MRU Index                 |      |        |                 |                   |                     |                     |
|          |      |            |         |        | 70                        | 71   | 72     |                 |                   |                     |                     |
|          | 5    | 6175       | 45      | 52+26T | 2.94                      | 2.85 | 2.95   | -8.02           | -5.07             | 24.0                | -29.07              |
| 6        | 6475 | 105        | 52+26T  | 2.99   | 2.88                      | 2.97 | -10.74 | -7.75           | 24.0              | -31.75              |                     |
| 7        | 6695 | 149        | 52+26T  | 2.99   | 2.90                      | 2.91 | -5.99  | -3.00           | 24.0              | -27.00              |                     |
| 8        | 6995 | 209        | 52+26T  | 2.55   | 2.52                      | 2.72 | -4.25  | -1.53           | 24.0              | -25.53              |                     |

Table 7-35. SISO ANT2 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (52+26 Tones) – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|--------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |        | MRU Index                 |       |       |                 |                   |                     |                     |
|          |      |            |         |        | 70                        | 71    | 72    |                 |                   |                     |                     |
|          | 5    | 6175       | 45      | 52+26T | 13.99                     | 13.88 | 13.50 | -4.49           | 9.50              | 24.0                | -14.50              |
| 7        | 6695 | 149        | 52+26T  | 13.63  | 13.50                     | 13.50 | -5.98 | 7.65            | 24.0              | -16.35              |                     |

Table 7-36. SISO ANT1 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (52+26 Tones) – SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|--------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |        | MRU Index                 |       |       |                 |                   |                     |                     |
|          |      |            |         |        | 70                        | 71    | 72    |                 |                   |                     |                     |
|          | 5    | 6175       | 45      | 52+26T | 13.97                     | 13.81 | 13.95 | -8.02           | 5.95              | 24.0                | -18.05              |
| 7        | 6695 | 149        | 52+26T  | 13.33  | 13.22                     | 13.33 | -5.99 | 7.34            | 24.0              | -16.66              |                     |

Table 7-37. SISO ANT2 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (52+26 Tones) – SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones   | Avg Conducted Power (dBm) |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|---------|---------------------------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |         | MRU Index                 |       |                 |                   |                     |                     |
|          |      |            |         |         | 82                        | 83    |                 |                   |                     |                     |
|          | 5    | 6175       | 45      | 106+26T | 5.73                      | 5.74  | -4.49           | 1.25              | 24.0                | -22.75              |
| 6        | 6475 | 105        | 106+26T | 5.99    | 5.92                      | -7.13 | -1.14           | 24.0              | -25.14              |                     |
| 7        | 6695 | 149        | 106+26T | 5.89    | 5.93                      | -5.98 | -0.05           | 24.0              | -24.05              |                     |
| 8        | 6995 | 209        | 106+26T | 5.99    | 5.93                      | -5.98 | 0.01            | 24.0              | -23.99              |                     |

Table 7-38. SISO ANT1 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (106+26 Tones) – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones   | Avg Conducted Power (dBm) |        | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|---------|---------------------------|--------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |         | MRU Index                 |        |                 |                   |                     |                     |
|          |      |            |         |         | 82                        | 83     |                 |                   |                     |                     |
|          | 5    | 6175       | 45      | 106+26T | 5.80                      | 5.81   | -8.02           | -2.21             | 24.0                | -26.21              |
| 6        | 6475 | 105        | 106+26T | 5.72    | 5.73                      | -10.74 | -5.01           | 24.0              | -29.01              |                     |
| 7        | 6695 | 149        | 106+26T | 5.99    | 5.89                      | -5.99  | 0.00            | 24.0              | -24.00              |                     |
| 8        | 6995 | 209        | 106+26T | 5.78    | 5.94                      | -4.25  | 1.69            | 24.0              | -22.31              |                     |

Table 7-39. SISO ANT2 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (106+26 Tones) – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | MRU Index                 |       |                 |                   |                     |                     |
|          |      |            |         |       | 82                        | 83    |                 |                   |                     |                     |
|          |      |            |         |       | 5                         | 6175  |                 |                   |                     |                     |
| 7        | 6695 | 149        | 106+26T | 13.52 | 13.50                     | -5.98 | 7.54            | 24.0              | -16.46              |                     |

Table 7-40. SISO ANT1 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (106+26 Tones) – SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|---------------------------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | MRU Index                 |       |                 |                   |                     |                     |
|          |      |            |         |       | 82                        | 83    |                 |                   |                     |                     |
|          |      |            |         |       | 5                         | 6175  |                 |                   |                     |                     |
| 7        | 6695 | 149        | 106+26T | 13.49 | 13.46                     | -5.99 | 7.50            | 24.0              | -16.50              |                     |

Table 7-41. SISO ANT2 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (106+26 Tones) – SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 60 of 158                    |

| 80MHz BW | Band | Freq [MHz] | Channel | Tones    | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|----------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |          | MRU Index                 |       |       |                 |                   |                     |                     |
|          |      |            |         |          | 90                        | 91    | 93    |                 |                   |                     |                     |
|          |      |            |         |          |                           |       |       |                 |                   |                     |                     |
| 5        |      | 5985       | 7       | 242+484T | 12.99                     | 12.99 | 12.99 | -4.49           | 8.50              | 24.0                | -15.50              |
|          |      | 6145       | 39      | 242+484T | 12.79                     | 12.85 | 12.85 | -4.49           | 8.36              | 24.0                | -15.64              |
|          |      | 6385       | 87      | 242+484T | 12.89                     | 12.86 | 12.95 | -4.49           | 8.46              | 24.0                | -15.54              |
| 6        |      | 6465       | 103     | 242+484T | 12.99                     | 12.60 | 12.67 | -7.13           | 5.86              | 24.0                | -18.14              |
|          |      | 6545       | 119     | 242+484T | 12.99                     | 12.95 | 12.99 | -5.98           | 7.01              | 24.0                | -16.99              |
| 7        |      | 6705       | 151     | 242+484T | 12.69                     | 12.77 | 12.65 | -5.98           | 6.79              | 24.0                | -17.21              |
|          |      | 6865       | 183     | 242+484T | 12.92                     | 12.93 | 12.89 | -5.98           | 6.95              | 24.0                | -17.05              |
|          |      | 6945       | 199     | 242+484T | 12.98                     | 12.99 | 12.99 | -5.98           | 7.01              | 24.0                | -16.99              |
| 8        |      | 7025       | 215     | 242+484T | 12.98                     | 12.96 | 12.98 | -5.98           | 7.00              | 24.0                | -17.00              |

Table 7-42. SISO ANT1 80MHz BW 802.11be (UNII) Maximum Conducted Output Power (484+242 Tones) – LPI

| 80MHz BW | Band | Freq [MHz] | Channel  | Tones    | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|----------|----------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |          |          | MRU Index                 |       |       |                 |                   |                     |                     |
|          |      |            |          |          | 90                        | 91    | 93    |                 |                   |                     |                     |
|          | 5    | 5985       | 7        | 242+484T | 12.99                     | 12.95 | 12.99 | -8.02           | 4.97              | 24.0                | -19.03              |
|          |      | 6145       | 39       | 242+484T | 12.73                     | 12.68 | 12.66 | -8.02           | 4.71              | 24.0                | -19.29              |
|          |      | 6385       | 87       | 242+484T | 12.60                     | 12.55 | 12.58 | -8.02           | 4.58              | 24.0                | -19.42              |
|          | 6    | 6465       | 103      | 242+484T | 12.62                     | 12.65 | 12.73 | -10.74          | 1.99              | 24.0                | -22.01              |
|          |      | 6545       | 119      | 242+484T | 12.92                     | 12.93 | 12.95 | -5.99           | 6.96              | 24.0                | -17.04              |
|          | 7    | 6705       | 151      | 242+484T | 12.68                     | 12.75 | 12.82 | -5.99           | 6.83              | 24.0                | -17.17              |
|          |      | 6865       | 183      | 242+484T | 12.94                     | 12.99 | 12.96 | -5.99           | 7.00              | 24.0                | -17.00              |
| 8        | 6945 | 199        | 242+484T | 12.70    | 12.66                     | 12.61 | -4.25 | 8.45            | 24.0              | -15.55              |                     |
|          | 7025 | 215        | 242+484T | 12.93    | 12.89                     | 12.73 | -4.25 | 8.68            | 24.0              | -15.32              |                     |

Table 7-43. SISO ANT2 80MHz BW 802.11be (UNII) Maximum Conducted Output Power (484+242 Tones) – LPI

| 80MHz BW | Band | Freq [MHz] | Channel | Tones    | Avg Conducted Power (dBm) |       |      | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|----------|---------------------------|-------|------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |         |          | MRU Index                 |       |      |                 |                   |                     |                     |
|          |      |            |         |          | 90                        | 91    | 93   |                 |                   |                     |                     |
|          |      |            |         |          | 90                        | 91    | 93   |                 |                   |                     |                     |
| 5        |      | 5985       | 7       | 242+484T | 15.64                     | 16.93 | 17.0 | -4.49           | 12.47             | 24.0                | -11.53              |
|          |      | 6145       | 39      | 242+484T | 15.70                     | 15.51 | 16.7 | -4.49           | 12.16             | 24.0                | -11.84              |
|          |      | 6385       | 87      | 242+484T | 16.90                     | 16.96 | 17.0 | -4.49           | 12.50             | 24.0                | -11.50              |
| 7        |      | 6545       | 119     | 242+484T | 16.55                     | 16.55 | 16.6 | -5.98           | 10.64             | 24.0                | -13.36              |
|          |      | 6705       | 151     | 242+484T | 16.62                     | 16.40 | 16.5 | -5.98           | 10.64             | 24.0                | -13.36              |

Table 7-44. SISO ANT1 80MHz BW 802.11be (UNII) Maximum Conducted Output Power (484+242 Tones) – SP

| 80MHz BW | Band | Freq [MHz] | Channel  | Tones | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|----------|-------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|          |      |            |          |       | MRU Index                 |       |       |                 |                   |                     |                     |
|          |      |            |          |       | 90                        | 91    | 93    |                 |                   |                     |                     |
|          |      |            |          |       | 90                        | 91    | 93    |                 |                   |                     |                     |
| 5        | 5985 | 7          | 242+484T | 15.69 | 15.54                     | 15.68 | -8.02 | 7.67            | 24.0              | -16.33              |                     |
|          | 6145 | 39         | 242+484T | 15.76 | 15.60                     | 15.77 | -8.02 | 7.75            | 24.0              | -16.25              |                     |
|          | 6385 | 87         | 242+484T | 15.30 | 15.15                     | 15.28 | -8.02 | 7.28            | 24.0              | -16.72              |                     |
| 7        | 6545 | 119        | 242+484T | 15.19 | 15.11                     | 15.20 | -5.99 | 9.21            | 24.0              | -14.79              |                     |
|          | 6705 | 151        | 242+484T | 15.59 | 15.48                     | 15.06 | -5.99 | 9.60            | 24.0              | -14.40              |                     |

Table 7-45. SISO ANT2 80MHz BW 802.11be (UNII) Maximum Conducted Output Power (484+242 Tones) – SP

| 160MHz BW | Band | Freq [MHz] | Channel  | Tones    | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|----------|----------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |          |          | MRU Index                 |       |       |                 |                   |                     |                     |
|           |      |            |          |          | 94                        | 95    | 1094  |                 |                   |                     |                     |
|           | 5    | 6025       | 15       | 996+484T | 15.99                     | 15.64 | 15.68 | -4.49           | 11.50             | 24.0                | -12.50              |
| 6185      |      | 47         | 996+484T | 15.65    | 15.65                     | 15.67 | -4.49 | 11.18           | 24.0              | -12.82              |                     |
| 6345      |      | 79         | 996+484T | 15.66    | 15.72                     | 15.72 | -4.49 | 11.23           | 24.0              | -12.77              |                     |
| 6         | 6505 | 111        | 996+484T | 15.84    | 15.91                     | 15.93 | -7.13 | 8.80            | 24.0              | -15.20              |                     |
|           | 6665 | 143        | 996+484T | 15.61    | 15.51                     | 15.99 | -5.98 | 10.01           | 24.0              | -13.99              |                     |
|           | 6825 | 175        | 996+484T | 15.81    | 15.82                     | 15.72 | -5.98 | 9.84            | 24.0              | -14.16              |                     |
| 8         | 6985 | 207        | 996+484T | 15.76    | 15.90                     | 15.88 | -5.98 | 9.92            | 24.0              | -14.08              |                     |

Table 7-46. SISO ANT1 160MHz BW 802.11be (UNII) Maximum Conducted Output Power (996+484 Tones) – LPI/SP

| 160MHz BW | Band | Freq [MHz] | Channel  | Tones    | Avg Conducted Power (dBm) |       |        | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|----------|----------|---------------------------|-------|--------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |          |          | MRU Index                 |       |        |                 |                   |                     |                     |
|           |      |            |          |          | 94                        | 95    | 1094   |                 |                   |                     |                     |
|           | 5    | 6025       | 15       | 996+484T | 15.99                     | 15.99 | 15.67  | -8.02           | 7.97              | 24.0                | -16.03              |
| 6185      |      | 47         | 996+484T | 15.72    | 15.60                     | 15.60 | -8.02  | 7.70            | 24.0              | -16.30              |                     |
| 6345      |      | 79         | 996+484T | 15.81    | 15.77                     | 15.65 | -8.02  | 7.79            | 24.0              | -16.21              |                     |
| 6         | 6505 | 111        | 996+484T | 15.85    | 15.92                     | 15.95 | -10.74 | 5.21            | 24.0              | -18.79              |                     |
| 7         | 6665 | 143        | 996+484T | 15.87    | 15.74                     | 15.73 | -5.99  | 9.88            | 24.0              | -14.12              |                     |
|           | 6825 | 175        | 996+484T | 15.90    | 15.82                     | 15.97 | -5.99  | 9.98            | 24.0              | -14.02              |                     |
| 8         | 6985 | 207        | 996+484T | 15.94    | 15.97                     | 15.94 | -4.25  | 11.72           | 24.0              | -12.28              |                     |

Table 7-47. SISO ANT2 160MHz BW 802.11be (UNII) Maximum Conducted Output Power (996+484 Tones) – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 61 of 158                    |

| 320MHz BW | Band | Freq [MHz] | Channel    | Tones      | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|------------|------------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |            |            | MRU Index                 |       |       |                 |                   |                     |                     |
|           |      |            |            |            | 100                       | 101   | 11102 |                 |                   |                     |                     |
|           | 5    | 6105       | 31         | 2x996+484T | 14.93                     | 14.93 | 14.70 | -4.49           | 10.44             | 24.0                | -13.56              |
| 6265      |      | 63         | 2x996+484T | 14.99      | 14.99                     | 14.99 | -4.49 | 10.50           | 24.0              | -13.50              |                     |
| 6         | 6425 | 95         | 2x996+484T | 14.93      | 14.97                     | 14.99 | -7.13 | 7.86            | 24.0              | -16.14              |                     |
| 7         | 6585 | 127        | 2x996+484T | 14.69      | 14.64                     | 14.79 | -5.98 | 8.81            | 24.0              | -15.19              |                     |
|           | 6745 | 159        | 2x996+484T | 14.99      | 14.99                     | 14.69 | -5.98 | 9.01            | 24.0              | -14.99              |                     |
| 8         | 6905 | 191        | 2x996+484T | 14.98      | 14.95                     | 14.99 | -5.98 | 9.01            | 24.0              | -14.99              |                     |

Table 7-48. SISO ANT1 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (2\*996+484 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel    | Tones      | Avg Conducted Power (dBm) |       |        | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|------------|------------|---------------------------|-------|--------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |            |            | MRU Index                 |       |        |                 |                   |                     |                     |
|           |      |            |            |            | 100                       | 101   | 11102  |                 |                   |                     |                     |
|           | 5    | 6105       | 31         | 2x996+484T | 14.88                     | 14.93 | 14.93  | -8.02           | 6.91              | 24.0                | -17.09              |
| 6265      |      | 63         | 2x996+484T | 14.75      | 14.85                     | 14.72 | -8.02  | 6.83            | 24.0              | -17.17              |                     |
| 6         | 6425 | 95         | 2x996+484T | 14.60      | 14.56                     | 14.54 | -10.74 | 3.86            | 24.0              | -20.14              |                     |
| 7         | 6585 | 127        | 2x996+484T | 14.84      | 14.93                     | 14.82 | -5.99  | 8.94            | 24.0              | -15.06              |                     |
|           | 6745 | 159        | 2x996+484T | 14.99      | 14.97                     | 14.99 | -5.99  | 9.00            | 24.0              | -15.00              |                     |
| 8         | 6905 | 191        | 2x996+484T | 14.99      | 14.99                     | 14.79 | -4.25  | 10.74           | 24.0              | -13.26              |                     |

Table 7-49. SISO ANT2 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (2\*996+484 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel | Tones  | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|--------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |         |        | MRU Index                 |       |       |                 |                   |                     |                     |
|           |      |            |         |        | 104                       | 10104 | 11104 |                 |                   |                     |                     |
|           | 5    | 6105       | 31      | 3x996T | 14.90                     | 14.76 | 14.73 | -4.49           | 10.41             | 24.0                | -13.59              |
| 6265      |      | 63         | 3x996T  | 14.70  | 14.97                     | 14.99 | -4.49 | 10.50           | 24.0              | -13.50              |                     |
| 6         | 6425 | 95         | 3x996T  | 14.75  | 14.88                     | 14.75 | -7.13 | 7.75            | 24.0              | -16.25              |                     |
| 7         | 6585 | 127        | 3x996T  | 14.63  | 14.53                     | 14.53 | -5.98 | 8.65            | 24.0              | -15.35              |                     |
|           | 6745 | 159        | 3x996T  | 14.99  | 14.82                     | 14.79 | -5.98 | 9.01            | 24.0              | -14.99              |                     |
| 8         | 6905 | 191        | 3x996T  | 14.85  | 14.72                     | 14.79 | -5.98 | 8.87            | 24.0              | -15.13              |                     |

Table 7-50. SISO ANT1 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (3\*996 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel | Tones | Avg Conducted Power (dBm) |       |        | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|-------|---------------------------|-------|--------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |         |       | MRU Index                 |       |        |                 |                   |                     |                     |
|           |      |            |         |       | 104                       | 10104 | 11104  |                 |                   |                     |                     |
|           |      |            |         |       |                           |       |        |                 |                   |                     |                     |
| 5         | 6105 | 31         | 3x996T  | 14.64 | 14.78                     | 14.63 | -8.02  | 6.76            | 24.0              | -17.24              |                     |
|           | 6265 | 63         | 3x996T  | 14.65 | 14.60                     | 14.60 | -8.02  | 6.63            | 24.0              | -17.37              |                     |
| 6         | 6425 | 95         | 3x996T  | 14.83 | 14.92                     | 14.83 | -10.74 | 4.18            | 24.0              | -19.82              |                     |
| 7         | 6585 | 127        | 3x996T  | 14.64 | 14.75                     | 14.68 | -5.99  | 8.76            | 24.0              | -15.24              |                     |
|           | 6745 | 159        | 3x996T  | 14.87 | 14.82                     | 14.83 | -5.99  | 8.88            | 24.0              | -15.12              |                     |
| 8         | 6905 | 191        | 3x996T  | 14.60 | 14.53                     | 14.82 | -4.25  | 10.57           | 24.0              | -13.43              |                     |

Table 7-51. SISO ANT2 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (3\*996 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel    | Tones      | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|------------|------------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |            |            | MRU Index                 |       |       |                 |                   |                     |                     |
|           |      |            |            |            | 105                       | 106   | 11105 |                 |                   |                     |                     |
|           | 5    | 6105       | 31         | 3x996+484T | 14.66                     | 14.60 | 14.79 | -4.49           | 10.30             | 24.0                | -13.70              |
| 6265      |      | 63         | 3x996+484T | 14.96      | 14.98                     | 14.99 | -4.49 | 10.50           | 24.0              | -13.50              |                     |
| 6         | 6425 | 95         | 3x996+484T | 14.81      | 14.83                     | 14.87 | -7.13 | 7.74            | 24.0              | -16.26              |                     |
| 7         | 6585 | 127        | 3x996+484T | 14.69      | 14.62                     | 14.58 | -5.98 | 8.71            | 24.0              | -15.29              |                     |
|           | 6745 | 159        | 3x996+484T | 14.95      | 14.95                     | 14.83 | -5.98 | 8.97            | 24.0              | -15.03              |                     |
| 8         | 6905 | 191        | 3x996+484T | 14.87      | 14.86                     | 14.84 | -5.98 | 8.89            | 24.0              | -15.11              |                     |

Table 7-52. SISO ANT1 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (3\*996+484 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel | Tones      | Avg Conducted Power (dBm) |       |       | Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|------------|---------------------------|-------|-------|-----------------|-------------------|---------------------|---------------------|
|           |      |            |         |            | MRU Index                 |       |       |                 |                   |                     |                     |
|           |      |            |         |            | 105                       | 106   | 11105 |                 |                   |                     |                     |
|           | 5    | 6105       | 31      | 3x996+484T | 14.77                     | 14.82 | 14.75 | -8.02           | 6.80              | 24.0                | -17.20              |
|           |      | 6265       | 63      | 3x996+484T | 14.89                     | 14.67 | 14.71 | -8.02           | 6.87              | 24.0                | -17.13              |
|           | 6    | 6425       | 95      | 3x996+484T | 14.97                     | 14.88 | 14.91 | -10.74          | 4.23              | 24.0                | -19.77              |
|           | 7    | 6585       | 127     | 3x996+484T | 14.69                     | 14.74 | 14.74 | -5.99           | 8.75              | 24.0                | -15.25              |
|           |      | 6745       | 159     | 3x996+484T | 14.99                     | 14.92 | 14.99 | -5.99           | 9.00              | 24.0                | -15.00              |
|           | 8    | 6905       | 191     | 3x996+484T | 14.74                     | 14.65 | 14.61 | -4.25           | 10.49             | 24.0                | -13.51              |

Table 7-53. SISO ANT2 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (3\*996+484 Tones) – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 62 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (26 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |      |       |       |      |       |       |      | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|------|-------|-------|------|-------|-------|------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |      |       |       |      |       |       |      |                      |                   |                     |                     |
|          |      |            |         |       | 0                             |       |      | 4     |       |      | 8     |       |      |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO | ANT1  | ANT2  | MIMO | ANT1  | ANT2  | MIMO |                      |                   |                     |                     |
| 5        | 5935 | 2          | 26T     |       | -0.67                         | -1.32 | 2.03 | -1.00 | -1.64 | 1.70 | -0.57 | -1.23 | 2.12 | -3.07                | -0.94             | 24.0                | -24.94              |
|          | 6175 | 45         | 26T     |       | -0.88                         | -1.62 | 1.78 | -1.27 | -1.81 | 1.48 | -0.77 | -1.44 | 1.92 | -3.07                | -1.15             | 24.0                | -25.15              |
|          | 6415 | 93         | 26T     |       | -0.53                         | -0.94 | 2.28 | -0.97 | -1.27 | 1.89 | -0.44 | -0.96 | 2.32 | -3.07                | -0.75             | 24.0                | -24.75              |
|          | 6435 | 97         | 26T     |       | -0.64                         | -0.76 | 2.31 | -0.91 | -1.18 | 1.97 | -0.43 | -0.81 | 2.39 | -5.74                | -3.34             | 24.0                | -27.34              |
| 6        | 6475 | 105        | 26T     |       | -0.10                         | -0.89 | 2.53 | -0.62 | -1.22 | 2.10 | -0.02 | -0.91 | 2.57 | -5.74                | -3.17             | 24.0                | -27.17              |
|          | 6515 | 113        | 26T     |       | -0.27                         | -0.62 | 2.57 | -0.70 | -1.02 | 2.15 | -0.13 | -0.78 | 2.57 | -5.74                | -3.17             | 24.0                | -27.17              |
|          | 6535 | 117        | 26T     |       | 1.03                          | -0.67 | 3.27 | 0.68  | -1.15 | 2.87 | 1.12  | -0.81 | 3.27 | -2.97                | 0.30              | 24.0                | -29.70              |
|          | 6695 | 149        | 26T     |       | 0.40                          | -1.49 | 2.57 | -0.02 | -1.75 | 2.21 | 0.15  | -1.24 | 2.52 | -2.97                | -0.41             | 24.0                | -24.41              |
| 7        | 6875 | 185        | 26T     |       | 0.28                          | -1.37 | 2.54 | -0.35 | -1.69 | 2.04 | -0.04 | -1.31 | 2.38 | -2.97                | -0.43             | 24.0                | -24.43              |
|          | 6895 | 189        | 26T     |       | 0.59                          | -1.03 | 2.87 | -0.08 | -1.32 | 2.35 | 0.37  | -0.85 | 2.81 | -2.06                | 0.80              | 24.0                | -23.20              |
|          | 6995 | 209        | 26T     |       | 0.36                          | -0.18 | 3.11 | -0.09 | -0.55 | 2.70 | 0.32  | -0.09 | 3.13 | -2.06                | 1.07              | 24.0                | -22.93              |
|          | 7115 | 233        | 26T     |       | 0.38                          | -0.17 | 3.12 | -0.07 | -0.54 | 2.71 | 0.34  | -0.08 | 3.15 | -2.06                | 1.08              | 24.0                | -22.92              |

Table 7-54. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       |       |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|-------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |       |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 0                             |       |       | 4     |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |                      |                   |                     |                     |
|          |      |            |         |       |                               |       |       |       |       |       |                      |                   |                     |                     |
| 5        | 5935 | 2          | 26T     | 3.18  | 3.79                          | 6.51  | 3.18  | 3.78  | 6.50  | -3.07 | 3.44                 | 24.0              | -20.56              |                     |
|          | 6175 | 45         | 26T     | 10.61 | 11.49                         | 14.08 | 11.31 | 10.51 | 13.94 | -3.07 | 11.02                | 24.0              | -12.98              |                     |
|          | 6415 | 93         | 26T     | 11.29 | 10.39                         | 13.87 | 11.48 | 10.50 | 14.03 | -3.07 | 11.07                | 24.0              | -12.93              |                     |
| 7        | 6535 | 117        | 26T     | 9.98  | 9.01                          | 12.53 | 9.78  | 9.56  | 12.68 | -2.97 | 9.75                 | 24.0              | -14.25              |                     |
|          | 6695 | 149        | 26T     | 9.72  | 9.22                          | 12.49 | 9.25  | 9.17  | 12.22 | -2.97 | 9.59                 | 24.0              | -14.41              |                     |

Table 7-55. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 63 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (52 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |      |      |      |      |      |      |      |      | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|------|------|------|------|------|------|------|------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |      |      |      |      |      |      |      |      |                      |                   |                     |                     |
|          |      |            |         |       | 37                            |      |      | 38   |      |      | 40   |      |      |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO |                      |                   |                     |                     |
| 5        | 5935 | 2          | 52T     |       | 1.84                          | 2.29 | 5.08 | 2.16 | 2.62 | 5.41 | 2.42 | 2.89 | 5.67 | -3.07                | 2.61              | 24.0                | -21.39              |
|          | 6175 | 45         | 52T     |       | 2.54                          | 2.94 | 5.75 | 2.08 | 2.75 | 5.44 | 2.35 | 2.95 | 5.67 | -3.07                | 2.69              | 24.0                | -21.31              |
|          | 6415 | 93         | 52T     |       | 1.95                          | 2.54 | 5.27 | 1.95 | 2.79 | 5.40 | 1.79 | 2.48 | 5.16 | -3.07                | 2.33              | 24.0                | -21.67              |
|          | 6435 | 97         | 52T     |       | 1.98                          | 2.82 | 5.43 | 1.57 | 2.58 | 5.11 | 1.80 | 2.75 | 5.31 | -5.74                | -0.31             | 24.0                | -24.31              |
| 6        | 6475 | 105        | 52T     |       | 2.32                          | 2.73 | 5.54 | 1.89 | 2.53 | 5.23 | 2.04 | 2.66 | 5.37 | -5.74                | -0.20             | 24.0                | -24.20              |
|          | 6515 | 113        | 52T     |       | 2.22                          | 2.86 | 5.56 | 1.72 | 2.46 | 5.12 | 1.88 | 2.66 | 5.30 | -5.74                | -0.18             | 24.0                | -24.18              |
|          | 6535 | 117        | 52T     |       | 2.12                          | 2.78 | 5.47 | 1.96 | 2.51 | 5.25 | 2.21 | 2.68 | 5.46 | -2.97                | 2.50              | 24.0                | -21.50              |
|          | 6695 | 149        | 52T     |       | 1.57                          | 2.62 | 5.14 | 1.81 | 2.90 | 5.40 | 1.66 | 2.53 | 5.13 | -2.97                | 2.42              | 24.0                | -21.58              |
| 8        | 6875 | 185        | 52T     |       | 1.56                          | 2.60 | 5.12 | 1.78 | 2.89 | 5.38 | 1.61 | 2.60 | 5.14 | -2.97                | 2.41              | 24.0                | -21.59              |
|          | 6895 | 189        | 52T     |       | 1.30                          | 2.71 | 5.07 | 1.69 | 3.10 | 5.46 | 1.49 | 2.86 | 5.24 | -2.06                | 3.40              | 24.0                | -20.60              |
|          | 6995 | 209        | 52T     |       | 1.18                          | 2.67 | 5.00 | 1.47 | 3.03 | 5.33 | 1.21 | 2.84 | 5.11 | -2.06                | 3.27              | 24.0                | -20.73              |
|          | 7115 | 233        | 52T     |       | 1.22                          | 2.71 | 5.04 | 1.51 | 3.07 | 5.37 | 1.25 | 2.88 | 5.15 | -2.06                | 3.31              | 24.0                | -20.69              |

Table 7-56. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       |       |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|-------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |       |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 37                            |       |       | 38    |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |                      |                   |                     |                     |
| 5        | 5935 | 2          | 52T     |       | 5.65                          | 5.94  | 8.81  | 5.95  | 5.49  | 8.74  | -3.07                | 5.74              | 24.0                | -18.26              |
|          | 6175 | 45         | 52T     |       | 13.46                         | 13.21 | 16.35 | 13.41 | 13.52 | 16.48 | -3.07                | 13.41             | 24.0                | -10.59              |
|          | 6415 | 93         | 52T     |       | 13.89                         | 13.52 | 16.72 | 13.55 | 13.88 | 16.73 | -3.07                | 13.66             | 24.0                | -10.34              |
| 7        | 6535 | 117        | 52T     |       | 13.64                         | 13.64 | 16.65 | 13.54 | 13.29 | 16.43 | -2.97                | 13.68             | 24.0                | -10.32              |
|          | 6695 | 149        | 52T     |       | 13.84                         | 13.84 | 16.85 | 13.26 | 13.74 | 16.52 | -2.97                | 13.88             | 24.0                | -10.12              |

Table 7-57. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 64 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (106 Tones)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |      |      |      |      |      | Dir. Ant. Gain<br>[dBi] | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|----------|------|------------|---------|-------|-------------------------------|------|------|------|------|------|-------------------------|----------------------|------------------------|------------------------|
|          |      |            |         |       | RU Index                      |      |      |      |      |      |                         |                      |                        |                        |
|          |      |            |         |       | 53                            |      |      | 54   |      |      |                         |                      |                        |                        |
|          |      |            |         |       | ANT1                          | ANT2 | MIMO | ANT1 | ANT2 | MIMO |                         |                      |                        |                        |
| 6        | 6    | 5935       | 2       | 106T  | 5.08                          | 5.07 | 8.09 | 5.12 | 5.11 | 8.13 | -3.07                   | 5.06                 | 24.0                   | -18.94                 |
|          |      | 6175       | 45      | 106T  | 5.67                          | 5.99 | 8.84 | 5.50 | 5.97 | 8.75 | -3.07                   | 5.78                 | 24.0                   | -18.22                 |
|          |      | 6415       | 93      | 106T  | 5.72                          | 5.84 | 8.79 | 5.57 | 5.82 | 8.71 | -3.07                   | 5.72                 | 24.0                   | -18.28                 |
|          |      | 6435       | 97      | 106T  | 5.84                          | 5.89 | 8.88 | 5.67 | 5.99 | 8.84 | -5.74                   | 3.14                 | 24.0                   | -20.86                 |
|          |      | 6475       | 105     | 106T  | 5.53                          | 5.67 | 8.61 | 5.38 | 5.65 | 8.53 | -5.74                   | 2.87                 | 24.0                   | -21.13                 |
|          |      | 6515       | 113     | 106T  | 5.38                          | 5.73 | 8.57 | 5.18 | 5.59 | 8.40 | -5.74                   | 2.83                 | 24.0                   | -21.17                 |
|          | 7    | 6535       | 117     | 106T  | 5.37                          | 5.87 | 8.64 | 5.47 | 5.87 | 8.68 | -2.97                   | 5.71                 | 24.0                   | -18.29                 |
|          |      | 6695       | 149     | 106T  | 4.77                          | 5.78 | 8.31 | 4.82 | 5.77 | 8.33 | -2.97                   | 5.36                 | 24.0                   | -18.64                 |
|          |      | 6875       | 185     | 106T  | 4.75                          | 5.77 | 8.30 | 4.84 | 5.82 | 8.37 | -2.97                   | 5.39                 | 24.0                   | -18.61                 |
|          |      | 6895       | 189     | 106T  | 4.04                          | 5.97 | 8.12 | 3.60 | 5.17 | 7.47 | -2.06                   | 6.06                 | 24.0                   | -17.94                 |
|          |      | 6995       | 209     | 106T  | 4.11                          | 5.77 | 8.03 | 4.21 | 5.89 | 8.14 | -2.06                   | 6.08                 | 24.0                   | -17.92                 |
|          |      | 7115       | 233     | 106T  | 4.11                          | 5.79 | 8.04 | 4.19 | 5.91 | 8.14 | -2.06                   | 6.08                 | 24.0                   | -17.92                 |

Table 7-58. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       |       |       |       | Dir. Ant. Gain | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|-------|-------|-------|----------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |       |       |       |                |                   |                     |                     |
|          |      |            |         |       | 53                            |       |       | 54    |       |       |                |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |                |                   |                     |                     |
|          |      |            |         |       |                               |       |       |       |       |       |                |                   |                     |                     |
| 5        | 5935 | 2          | 106T    |       | 7.98                          | 7.40  | 10.71 | 7.60  | 7.32  | 10.47 | -3.07          | 7.64              | 24.0                | -16.36              |
|          | 6175 | 45         | 106T    |       | 13.73                         | 13.21 | 16.49 | 13.15 | 13.42 | 16.30 | -3.07          | 13.42             | 24.0                | -10.58              |
|          | 6415 | 93         | 106T    |       | 13.29                         | 13.22 | 16.27 | 13.21 | 13.56 | 16.40 | -3.07          | 13.33             | 24.0                | -10.67              |
| 7        | 6535 | 117        | 106T    |       | 13.00                         | 13.44 | 16.24 | 13.23 | 13.33 | 16.29 | -2.97          | 13.32             | 24.0                | -10.68              |
|          | 6695 | 149        | 106T    |       | 13.34                         | 13.11 | 16.24 | 13.11 | 13.41 | 16.27 | -2.97          | 13.30             | 24.0                | -10.70              |

Table 7-59. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 65 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (242 Tones)

|          | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 61                            |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  |                      |                   |                     |                     |
| 20MHz BW | 5    | 5935       | 2       | 242T  | 9.56                          | 9.87  | 12.73 | -3.07                | 9.66              | 24.0                | -14.34              |
|          |      | 6175       | 45      | 242T  | 10.55                         | 10.79 | 13.68 | -3.07                | 10.62             | 24.0                | -13.38              |
|          |      | 6415       | 93      | 242T  | 9.94                          | 10.49 | 13.23 | -3.07                | 10.17             | 24.0                | -13.83              |
|          | 6    | 6435       | 97      | 242T  | 10.04                         | 10.66 | 13.37 | -5.74                | 7.63              | 24.0                | -16.37              |
|          |      | 6475       | 105     | 242T  | 10.21                         | 10.80 | 13.53 | -5.74                | 7.79              | 24.0                | -16.21              |
|          |      | 6515       | 113     | 242T  | 10.03                         | 10.83 | 13.46 | -5.74                | 7.72              | 24.0                | -16.28              |
|          | 7    | 6535       | 117     | 242T  | 10.28                         | 10.81 | 13.56 | -2.97                | 10.59             | 24.0                | -13.41              |
|          |      | 6695       | 149     | 242T  | 9.67                          | 10.48 | 13.10 | -2.97                | 10.13             | 24.0                | -13.87              |
|          |      | 6875       | 185     | 242T  | 9.64                          | 10.46 | 13.08 | -2.97                | 10.10             | 24.0                | -13.90              |
|          | 8    | 6895       | 189     | 242T  | 9.52                          | 10.59 | 13.10 | -2.06                | 11.04             | 24.0                | -12.96              |
|          |      | 6995       | 209     | 242T  | 9.43                          | 10.53 | 13.03 | -2.06                | 10.96             | 24.0                | -13.04              |
|          |      | 7115       | 233     | 242T  | 9.50                          | 10.57 | 13.08 | -2.06                | 11.02             | 24.0                | -12.98              |

**Table 7-60. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI**

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 61                            |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  |                      |                   |                     |                     |
|          | 5    | 5935       | 2       | 242T  | 9.38                          | 9.45  | 12.43 | -3.07                | 9.36              | 24.0                | -14.64              |
|          | 6175 | 45         | 242T    | 16.68 | 16.71                         | 19.71 | -3.07 | 16.64                | 24.0              | -7.36               |                     |
|          | 6415 | 93         | 242T    | 16.19 | 16.69                         | 19.46 | -3.07 | 16.39                | 24.0              | -7.61               |                     |
|          | 6535 | 117        | 242T    | 14.22 | 14.02                         | 17.13 | -2.97 | 14.16                | 24.0              | -9.84               |                     |
|          | 6695 | 149        | 242T    | 13.79 | 14.19                         | 17.00 | -2.97 | 14.03                | 24.0              | -9.97               |                     |

**Table 7-61. MIMO 20MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – SP**

|                                            |  |                                        |                               |                                   |
|--------------------------------------------|--|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     |  | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L |  | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 66 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (484 Tones)

| 40MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 65                            |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  |                      |                   |                     |                     |
|          | 5    | 5965       | 3       | 484T  | 11.94                         | 12.86 | 15.43 | -3.07                | 12.37             | 24.0                | -11.63              |
|          |      | 6165       | 43      | 484T  | 11.88                         | 12.36 | 15.14 | -3.07                | 12.07             | 24.0                | -11.93              |
|          |      | 6405       | 91      | 484T  | 11.91                         | 12.60 | 15.28 | -3.07                | 12.21             | 24.0                | -11.79              |
|          | 6    | 6445       | 99      | 484T  | 12.02                         | 12.65 | 15.36 | -5.74                | 9.62              | 24.0                | -14.38              |
|          |      | 6485       | 107     | 484T  | 12.11                         | 12.84 | 15.50 | -5.74                | 9.76              | 24.0                | -14.24              |
|          |      | 6525       | 115     | 484T  | 12.23                         | 12.95 | 15.62 | -5.74                | 9.88              | 24.0                | -14.12              |
|          | 7    | 6565       | 123     | 484T  | 12.09                         | 12.86 | 15.50 | -2.97                | 12.53             | 24.0                | -11.47              |
|          |      | 6725       | 155     | 484T  | 12.06                         | 12.71 | 15.41 | -2.97                | 12.43             | 24.0                | -11.57              |
|          |      | 6845       | 179     | 484T  | 11.83                         | 12.72 | 15.31 | -2.97                | 12.33             | 24.0                | -11.67              |
|          | 8    | 6885       | 187     | 484T  | 11.65                         | 12.68 | 15.21 | -2.06                | 13.14             | 24.0                | -10.86              |
|          |      | 7005       | 211     | 484T  | 11.48                         | 12.69 | 15.14 | -2.06                | 13.08             | 24.0                | -10.92              |
|          |      | 7085       | 227     | 484T  | 11.35                         | 12.69 | 15.08 | -2.06                | 13.02             | 24.0                | -10.98              |

**Table 7-62. MIMO 40MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI**

| 40MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 65                            |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  |                      |                   |                     |                     |
|          | 5    | 5965       | 3       | 484T  | 16.44                         | 16.39 | 19.43 | -3.07                | 16.36             | 24.0                | -7.64               |
| 6165     |      | 43         | 484T    | 16.75 | 16.01                         | 19.40 | -3.07 | 16.34                | 24.0              | -7.66               |                     |
| 6405     |      | 91         | 484T    | 16.87 | 15.42                         | 19.22 | -3.07 | 16.15                | 24.0              | -7.85               |                     |
| 7        | 6565 | 123        | 484T    | 16.99 | 15.73                         | 19.42 | -2.97 | 16.44                | 24.0              | -7.56               |                     |
|          | 6685 | 147        | 484T    | 16.52 | 16.05                         | 19.30 | -2.97 | 16.33                | 24.0              | -7.67               |                     |

**Table 7-63. MIMO 40MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – SP**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 67 of 158                           |

## MIMO Maximum Conducted Output Power Measurements (996 Tones)

| 80MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | RU Index                      |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 67                            |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  |                      |                   |                     |                     |
|          | 5    | 5985       | 7       | 996T  | 14.69                         | 15.11 | 17.92 | -3.07                | 14.85             | 24.0                | -9.15               |
| 6145     |      | 39         | 996T    | 14.85 | 15.20                         | 18.04 | -3.07 | 14.97                | 24.0              | -9.03               |                     |
| 6385     |      | 87         | 996T    | 15.39 | 15.76                         | 18.59 | -3.07 | 15.52                | 24.0              | -8.48               |                     |
| 6        | 6465 | 103        | 996T    | 15.06 | 15.54                         | 18.32 | -5.74 | 12.58                | 24.0              | -11.42              |                     |
|          | 6545 | 119        | 996T    | 15.08 | 15.59                         | 18.35 | -2.97 | 15.38                | 24.0              | -8.62               |                     |
| 7        | 6705 | 151        | 996T    | 15.22 | 15.49                         | 18.37 | -2.97 | 15.39                | 24.0              | -8.61               |                     |
|          | 6865 | 183        | 996T    | 14.76 | 15.48                         | 18.15 | -2.97 | 15.17                | 24.0              | -8.83               |                     |
| 8        | 6945 | 199        | 996T    | 15.27 | 15.96                         | 18.64 | -2.06 | 16.58                | 24.0              | -7.42               |                     |
|          | 7025 | 215        | 996T    | 14.91 | 15.92                         | 18.45 | -2.06 | 16.39                | 24.0              | -7.61               |                     |

Table 7-64. MIMO 80MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 68 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (2x996 Tones)

| 160MHz BW | Band | Freq [MHz] | Channel | Tones  | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|--------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|           |      |            |         |        | RU Index                      |       |       |                      |                   |                     |                     |
|           |      |            |         |        | 68                            |       |       |                      |                   |                     |                     |
|           |      |            |         |        | ANT1                          | ANT2  | MIMO  |                      |                   |                     |                     |
|           | 5    | 6025       | 15      | 2x996T | 14.09                         | 14.53 | 17.33 | -3.07                | 14.26             | 24.0                | -9.74               |
|           |      | 6185       | 47      | 2x996T | 14.20                         | 14.59 | 17.41 | -3.07                | 14.34             | 24.0                | -9.66               |
|           |      | 6345       | 79      | 2x996T | 14.57                         | 14.97 | 17.78 | -3.07                | 14.72             | 24.0                | -9.28               |
|           | 6    | 6505       | 111     | 2x996T | 14.44                         | 14.93 | 17.70 | -5.74                | 11.96             | 24.0                | -12.04              |
|           | 7    | 6665       | 143     | 2x996T | 13.84                         | 14.42 | 17.15 | -2.97                | 14.18             | 24.0                | -9.82               |
|           |      | 6825       | 175     | 2x996T | 13.89                         | 14.31 | 17.12 | -2.97                | 14.14             | 24.0                | -9.86               |
| 8         | 6985 | 207        | 2x996T  | 13.32  | 14.45                         | 16.93 | -2.06 | 14.87                | 24.0              | -9.13               |                     |

Table 7-65. MIMO 160MHz BW 802.11ax/be (UNII) Maximum Conducted Output Power – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 69 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (4x996 Tones)

| 320MHz BW | Band | Freq [MHz] | Channel | Tones  | Average Conducted Power (dBm) |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|--------|-------------------------------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|           |      |            |         |        | RU Index                      |       |       |                      |                   |                     |                     |
|           |      |            |         |        | 69                            |       |       |                      |                   |                     |                     |
|           | ANT1 | ANT2       | MIMO    |        |                               |       |       |                      |                   |                     |                     |
|           | 5    | 6105       | 31      | 4x996T | 14.11                         | 14.72 | 17.44 | -3.07                | 14.37             | 24.0                | -9.63               |
|           | 6265 | 63         | 4x996T  | 14.18  | 14.36                         | 17.28 | -3.07 | 14.21                | 24.0              | -9.79               |                     |
| 6         | 6425 | 95         | 4x996T  | 14.59  | 14.55                         | 17.58 | -5.74 | 11.84                | 24.0              | -12.16              |                     |
|           | 6585 | 127        | 4x996T  | 14.66  | 14.21                         | 17.45 | -2.97 | 14.48                | 24.0              | -9.52               |                     |
| 7         | 6745 | 159        | 4x996T  | 14.32  | 14.98                         | 17.67 | -2.97 | 14.70                | 24.0              | -9.30               |                     |
|           | 6905 | 191        | 4x996T  | 14.01  | 14.42                         | 17.23 | -2.06 | 15.17                | 24.0              | -8.83               |                     |

Table 7-66. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 70 of 158                    |

## MIMO Maximum Conducted Output Power Measurements (MRU)

| 20MHz BW | Band | Freq [MHz] | Channel | Tones  | Average Conducted Power (dBm) |      |      |      |      |      |      |      |      | Dir. Ant. Gain<br>[dBi] | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|----------|------|------------|---------|--------|-------------------------------|------|------|------|------|------|------|------|------|-------------------------|----------------------|------------------------|------------------------|
|          |      |            |         |        | MRU Index                     |      |      |      |      |      |      |      |      |                         |                      |                        |                        |
|          |      |            |         |        | 70                            |      |      | 71   |      |      | 72   |      |      |                         |                      |                        |                        |
|          |      |            |         |        | ANT1                          | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO |                         |                      |                        |                        |
|          | 5    | 6175       | 45      | 52+26T | 2.76                          | 2.31 | 5.55 | 2.58 | 2.42 | 5.51 | 2.63 | 2.71 | 5.68 | -3.07                   | 2.61                 | 24.0                   | -21.39                 |
|          | 6    | 6475       | 105     | 52+26T | 2.77                          | 2.55 | 5.67 | 2.28 | 2.92 | 5.62 | 2.99 | 2.62 | 5.82 | -5.74                   | 0.08                 | 24.0                   | -23.92                 |
|          | 7    | 6695       | 149     | 52+26T | 2.72                          | 2.54 | 5.64 | 2.99 | 1.93 | 5.50 | 2.69 | 0.75 | 4.84 | -2.97                   | 2.67                 | 24.0                   | -21.33                 |
|          | 8    | 6995       | 209     | 52+26T | 2.50                          | 1.02 | 4.83 | 2.82 | 1.27 | 5.12 | 2.89 | 2.62 | 5.77 | -2.06                   | 3.71                 | 24.0                   | -20.29                 |

Table 7-67. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (52+26 Tones) – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       |       |       |       |       |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | MRU Index                     |       |       |       |       |       |       |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 70                            |       |       | 71    |       |       | 72    |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |                      |                   |                     |                     |
| 5        | 6175 | 45         | 52+26T  | 13.52 | 13.05                         | 16.30 | 13.44 | 13.11 | 16.29 | 13.63 | 13.21 | 16.44 | -3.07 | 13.4                 | 24.0              | -10.63              |                     |
| 7        | 6695 | 149        | 52+26T  | 13.48 | 13.22                         | 16.36 | 13.49 | 13.28 | 16.40 | 13.70 | 13.24 | 16.58 | -2.97 | 13.6                 | 24.0              | -10.39              |                     |

Table 7-68. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (52+26 Tones) – SP

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |      |      |      |      |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|------|------|------|------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | MRU Index                     |      |      |      |      |       |                      |                   |                     |                     |
|          |      |            |         |       | 82                            |      |      | 83   |      |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2 | MIMO | ANT1 | ANT2 | MIMO  |                      |                   |                     |                     |
| 5        | 6175 | 45         | 106+26T | 5.67  | 5.36                          | 8.53 | 5.81 | 5.42 | 8.63 | -3.07 | 5.56                 | 24.0              | -18.44              |                     |
| 6        | 6475 | 105        | 106+26T | 5.62  | 5.28                          | 8.46 | 5.82 | 5.50 | 8.67 | -5.74 | 2.93                 | 24.0              | -21.07              |                     |
| 7        | 6695 | 149        | 106+26T | 5.98  | 4.48                          | 8.30 | 5.59 | 3.33 | 7.62 | -2.97 | 5.33                 | 24.0              | -18.67              |                     |
| 8        | 6995 | 209        | 106+26T | 5.74  | 4.24                          | 8.06 | 5.99 | 5.44 | 8.73 | -2.06 | 6.67                 | 24.0              | -17.33              |                     |

Table 7-69. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (106+26 Tones) – LPI

| 20MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       |       |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|---------|-------|-------------------------------|-------|-------|-------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|          |      |            |         |       | MRU Index                     |       |       |       |       |       |                      |                   |                     |                     |
|          |      |            |         |       | 82                            |       |       | 83    |       |       |                      |                   |                     |                     |
|          |      |            |         |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |                      |                   |                     |                     |
|          |      |            |         |       |                               |       |       |       |       |       |                      |                   |                     |                     |
| 5        | 6175 | 45         | 106+26T | 13.27 | 13.11                         | 16.20 | 13.54 | 13.37 | 16.47 | -3.07 | 13.4                 | 24.0              | -10.60              |                     |
| 7        | 6695 | 149        | 106+26T | 13.44 | 13.09                         | 16.28 | 13.69 | 13.41 | 16.56 | -2.97 | 13.6                 | 24.0              | -10.41              |                     |

Table 7-70. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power (106+26 Tones) – SP

| 80MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |  |  |      |  |  |      |  |  |      |  |  | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |      |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|          |      |            |         |       | MRU Index                     |  |  |      |  |  |      |  |  |      |  |  |                      |                   |                     |                     |      |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|          |      |            |         |       | 90                            |  |  |      |  |  | 91   |  |  |      |  |  |                      |                   |                     |                     | 93   |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|          |      |            |         |       | ANT1                          |  |  | ANT2 |  |  | MIMO |  |  | ANT1 |  |  |                      |                   |                     |                     | ANT2 |  |  | MIMO |  |  | ANT1 |  |  | ANT2 |  |  | MIMO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|          |      |            |         |       |                               |  |  |      |  |  |      |  |  |      |  |  |                      |                   |                     |                     |      |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 7-71. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power (484+242 Tones) – LPI

| 80MHz BW | Band | Freq [MHz] | Channel  | Tones | Average Conducted Power (dBm) |       |       |       |       |       |       |       |      | Dir. Ant. Gain [dB] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|----------|------|------------|----------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|------|---------------------|-------------------|---------------------|---------------------|
|          |      |            |          |       | MRU Index                     |       |       |       |       |       |       |       |      |                     |                   |                     |                     |
|          |      |            |          |       | 90                            |       |       | 91    |       |       | 93    |       |      |                     |                   |                     |                     |
|          |      |            |          |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  | ANT1  | ANT2  | MIMO |                     |                   |                     |                     |
| 5        | 5985 | 7          | 242x484T | 16.48 | 16.23                         | 19.36 | 16.20 | 16.18 | 19.20 | 16.42 | 16.21 | 19.33 | 16.3 | 24.0                | -7.70             |                     |                     |
|          | 6455 | 39         | 242x484T | 16.48 | 16.23                         | 19.36 | 16.82 | 19.41 | 16.42 | 16.21 | 19.40 | 16.3  | 24.0 | -7.53               |                   |                     |                     |
|          | 6385 | 87         | 242x484T | 16.86 | 16.23                         | 19.29 | 16.87 | 19.59 | 19.46 | 16.74 | 15.84 | 19.32 | 16.2 | 24.0                | -7.60             |                     |                     |
| 7        | 6545 | 119        | 242x484T | 16.72 | 15.42                         | 19.13 | 16.52 | 15.66 | 19.12 | 16.72 | 15.33 | 19.09 | 16.2 | 24.0                | -7.85             |                     |                     |
|          | 6705 | 151        | 242x484T | 16.11 | 16.09                         | 19.11 | 16.21 | 16.17 | 19.20 | 16.26 | 16.16 | 19.22 | 16.2 | 24.0                | -7.76             |                     |                     |

Table 7-72. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power (484+242 Tones) – SP

| 160MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |  |  |      |  |  |      |  |  |      |  |  | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |      |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|           |      |            |         |       | MRU Index                     |  |  |      |  |  |      |  |  |      |  |  |                      |                   |                     |                     |      |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           |      |            |         |       | 94                            |  |  |      |  |  | 95   |  |  |      |  |  |                      |                   |                     |                     | 1094 |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           |      |            |         |       | ANT1                          |  |  | ANT2 |  |  | MIMO |  |  | ANT1 |  |  |                      |                   |                     |                     | ANT2 |  |  | MIMO |  |  | ANT1 |  |  | ANT2 |  |  | MIMO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           |      |            |         |       |                               |  |  |      |  |  |      |  |  |      |  |  |                      |                   |                     |                     |      |  |  |      |  |  |      |  |  |      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 7-73. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power (996+484 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel    | Tones | Average Conducted Power (dBm) |       |       |       |       |       |       |       |       |       | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|------------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------------------|---------------------|---------------------|
|           |      |            |            |       | MRU Index                     |       |       |       |       |       |       |       |       |       |                      |                   |                     |                     |
|           |      |            |            |       | 100                           |       |       | 101   |       |       | 11102 |       |       |       |                      |                   |                     |                     |
|           |      |            |            |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |       |                      |                   |                     |                     |
|           |      |            |            |       |                               |       |       |       |       |       |       |       |       |       |                      |                   |                     |                     |
| 5         | 6105 | 31         | 2x996+484T | 14.66 | 14.62                         | 17.65 | 14.62 | 14.62 | 17.62 | 14.39 | 14.69 | 17.55 | -3.07 | 14.58 | 24.0                 | -9.42             |                     |                     |
|           | 6265 | 63         | 2x996+484T | 14.97 | 14.98                         | 17.99 | 14.98 | 14.98 | 17.99 | 14.82 | 14.99 | 17.92 | -3.07 | 14.92 | 24.0                 | -9.08             |                     |                     |
| 6         | 6425 | 95         | 2x996+484T | 14.63 | 13.76                         | 17.23 | 14.57 | 13.72 | 17.18 | 14.56 | 13.69 | 17.16 | -5.74 | 11.49 | 24.0                 | -12.51            |                     |                     |
| 7         | 6585 | 127        | 2x996+484T | 14.59 | 13.84                         | 17.24 | 14.65 | 13.96 | 17.33 | 14.73 | 13.71 | 17.26 | -2.97 | 14.35 | 24.0                 | -9.65             |                     |                     |
|           | 6745 | 159        | 2x996+484T | 14.91 | 14.91                         | 17.54 | 14.61 | 17.08 | 17.48 | 14.83 | 13.53 | 17.24 | -2.97 | 14.44 | 24.0                 | -9.44             |                     |                     |
| 8         | 6905 | 197        | 2x996+484T | 14.99 | 13.70                         | 17.40 | 14.99 | 13.71 | 17.41 | 14.65 | 13.35 | 17.06 | -2.06 | 13.35 | 24.0                 | -8.65             |                     |                     |

Table 7-74. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (2\*996+484 Tones) – LPI/SP

| 320MHz BW | Band | Freq [MHz] | Channel | Tones | Average Conducted Power (dBm) |       |       |       |       |       |       |       |       |       |      |        | Dir. Ant. Gain [dBi] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|----------------------|-------------------|---------------------|---------------------|
|           |      |            |         |       | MRU Index                     |       |       |       |       |       |       |       |       |       |      |        |                      |                   |                     |                     |
|           |      |            |         |       | 104                           |       |       | 10104 |       |       | 11104 |       |       |       |      |        |                      |                   |                     |                     |
|           |      |            |         |       | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |       |      |        |                      |                   |                     |                     |
|           |      |            |         |       |                               |       |       |       |       |       |       |       |       |       |      |        |                      |                   |                     |                     |
| 5         | 6105 | 31         | 3x996T  | 14.70 | 14.88                         |       | 14.98 | 14.98 | 17.99 | 14.78 | 14.98 |       | -3.07 | 14.92 | 24.0 | -0.08  |                      |                   |                     |                     |
|           | 6265 | 63         | 3x996T  | 14.62 | 14.80                         | 17.72 | 14.78 | 14.74 | 17.77 | 14.78 | 14.72 | 17.76 | -3.07 | 14.70 | 24.0 | -9.30  |                      |                   |                     |                     |
|           | 6425 | 95         | 3x996T  | 14.79 | 14.05                         | 17.45 | 14.99 | 14.04 | 17.55 | 14.95 | 14.12 | 17.57 | -5.74 | 11.83 | 24.0 | -12.17 |                      |                   |                     |                     |
| 7         | 6585 | 127        | 3x996T  | 14.67 | 13.59                         | 17.17 | 14.64 | 13.85 | 17.27 | 14.51 | 13.79 | 17.18 | -2.97 | 14.30 | 24.0 | -9.70  |                      |                   |                     |                     |
|           | 6745 | 159        | 3x996T  | 13.27 | 17.04                         | 14.65 | 13.62 | 16.99 | 14.90 | 13.92 | 17.45 | 14.97 | -2.97 | 24.0  | 24.0 | -9.58  |                      |                   |                     |                     |
| 8         | 6905 | 193        | 3x996T  | 14.87 | 13.60                         | 17.29 | 14.95 | 13.63 | 17.35 | 14.93 | 13.45 | 17.26 | -2.06 | 15.49 | 24.0 | -8.71  |                      |                   |                     |                     |

Table 7-75. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (3\*996 Tones) – LPI/SP

|                                            |  |                                        |  |  |  |                               |  |  |  |  |  |                                   |  |
|--------------------------------------------|--|----------------------------------------|--|--|--|-------------------------------|--|--|--|--|--|-----------------------------------|--|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     |  | MEASUREMENT REPORT                     |  |  |  |                               |  |  |  |  |  | Approved by:<br>Technical Manager |  |
| Test Report S/N:<br>1M2502210015-23-R1.A3L |  | Test Dates:<br>02/24/2025 - 04/11/2025 |  |  |  | EUT Type:<br>Portable Handset |  |  |  |  |  | Page 71 of 158                    |  |

| 320MHz BW | Band | Freq [MHz] | Channel | Tones      | Average Conducted Power (dBm) |       |       |       |       |       |       |       |       | Dir. Ant. Gain [dB] | Max e.i.r.p [dBm] | e.i.r.p Limit [dBm] | e.i.r.p Margin [dB] |
|-----------|------|------------|---------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-------------------|---------------------|---------------------|
|           |      |            |         |            | MRU Index                     |       |       |       |       |       |       |       |       |                     |                   |                     |                     |
|           |      |            |         |            | 105                           |       |       | 106   |       |       | 11105 |       |       |                     |                   |                     |                     |
|           |      |            |         |            | ANT1                          | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  | ANT1  | ANT2  | MIMO  |                     |                   |                     |                     |
|           |      |            |         |            |                               |       |       |       |       |       |       |       |       |                     |                   |                     |                     |
|           | 5    | 6105       | 31      | 3x996+484T | 14.91                         | 14.99 | 17.96 | 14.90 | 14.99 | 17.96 | 14.95 | 14.99 | 17.98 | -3.07               | 14.91             | 24.0                | -9.09               |
|           |      | 6265       | 63      | 3x996+484T | 14.81                         | 14.87 | 17.85 | 14.76 | 14.82 | 17.80 | 14.86 | 14.81 | 17.85 | -3.07               | 14.78             | 24.0                | -9.22               |
|           | 6    | 6425       | 95      | 3x996+484T | 14.94                         | 14.10 | 17.55 | 14.92 | 14.05 | 17.52 | 14.99 | 14.18 | 17.61 | -5.74               | 11.88             | 24.0                | -12.12              |
|           |      | 6585       | 127     | 3x996+484T | 14.69                         | 13.65 | 17.21 | 14.66 | 13.67 | 17.20 | 14.58 | 13.86 | 17.25 | -2.97               | 14.27             | 24.0                | -9.73               |
|           | 7    | 6745       | 159     | 3x996+484T | 14.66                         | 13.36 | 17.07 | 14.58 | 13.39 | 17.04 | 14.53 | 13.51 | 17.06 | -2.97               | 14.09             | 24.0                | -9.91               |
|           | 8    | 6905       | 191     | 3x996+484T | 14.99                         | 13.72 | 17.41 | 14.99 | 13.71 | 17.41 | 14.99 | 13.72 | 17.41 | -2.06               | 15.35             | 24.0                | -8.65               |

**Table 7-76. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power (3\*996+484 Tones) – LPI/SP**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 72 of 158                           |



### Sample MIMO Calculation:

At 5935MHz in 802.11ax (20MHz BW – 26 Tones) mode, the average conducted output power was measured to be -0.57 dBm for Antenna-1 and -1.23 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(-0.57 \text{ dBm} + -1.23 \text{ dBm}) = (0.877 \text{ mW} + 0.753 \text{ mW}) = 1.630 \text{ mW} = 2.12 \text{ dBm}$$

### Sample Directional Gain Calculation:

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where  $G_N$  is the gain of the  $n$ th antenna and  $N_{ANT}$ , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

### Sample e.i.r.p. Calculation:

At 5935MHz in 802.11ax (20MHz BW – 26 Tones) mode, the average MIMO conducted power was calculated to be 2.12 dBm with directional gain of -3.07 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$2.12 \text{ dBm} + -3.07 \text{ dBi} = -0.94 \text{ dBm}$$

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 73 of 158                           |

## 7.4 Maximum Power Spectral Density

### Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013, was used to measure the power spectral density.

***In the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band. For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm/MHz e.i.r.p.***

### Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

### Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

SP 80/160/320MHz BW share same target as LPI 80/160/320MHz BW, and only the emissions from worst case have been reported

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 74 of 158                    |

## MIMO Power Spectral Density Measurements

|          | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Antenna-1 Gain [dBi] | Antenna-2 Gain [dBi] | Summed MIMO Power Density [dBm] | Directional Gain [dBi] | EIRP [dBm] | Max EIRP [dBm] | Margin [dB] |
|----------|-----------------|---------|-------------|-------------------------------|-------------------------------|----------------------|----------------------|---------------------------------|------------------------|------------|----------------|-------------|
| Band 5   | 5935            | 2       | be (20MHz)  | -3.96                         | -5.51                         | -4.49                | -8.02                | -1.66                           | -3.07                  | -4.72      | -1             | -3.72       |
|          | 6175            | 45      | be (20MHz)  | -4.21                         | -5.60                         | -4.49                | -8.02                | -1.84                           | -3.07                  | -4.90      | -1             | -3.90       |
|          | 6415            | 93      | be (20MHz)  | -4.92                         | -6.22                         | -4.49                | -8.02                | -2.51                           | -3.07                  | -5.58      | -1             | -4.58       |
|          | 5965            | 3       | be (40MHz)  | -2.91                         | -4.41                         | -4.49                | -8.02                | -0.59                           | -3.07                  | -3.65      | -1             | -2.65       |
|          | 6165            | 43      | be (40MHz)  | -2.86                         | -4.67                         | -4.49                | -8.02                | -0.66                           | -3.07                  | -3.72      | -1             | -2.72       |
|          | 6405            | 91      | be (40MHz)  | -3.39                         | -4.88                         | -4.49                | -8.02                | -1.06                           | -3.07                  | -4.12      | -1             | -3.12       |
|          | 5985            | 7       | be (80MHz)  | -3.26                         | -5.32                         | -4.49                | -8.02                | -1.16                           | -3.07                  | -4.23      | -1             | -3.23       |
|          | 6145            | 39      | be (80MHz)  | -3.09                         | -4.63                         | -4.49                | -8.02                | -0.78                           | -3.07                  | -3.85      | -1             | -2.85       |
|          | 6385            | 87      | be (80MHz)  | -3.99                         | -4.99                         | -4.49                | -8.02                | -1.45                           | -3.07                  | -4.52      | -1             | -3.52       |
|          | 6025            | 15      | be (160MHz) | -2.71                         | -4.62                         | -4.49                | -8.02                | -0.55                           | -3.07                  | -3.61      | -1             | -2.61       |
|          | 6185            | 47      | be (160MHz) | -2.92                         | -4.68                         | -4.49                | -8.02                | -0.70                           | -3.07                  | -3.77      | -1             | -2.77       |
|          | 6345            | 79      | be (160MHz) | -3.40                         | -5.56                         | -4.49                | -8.02                | -1.34                           | -3.07                  | -4.41      | -1             | -3.41       |
| Band 6   | 6105            | 31      | be (320MHz) | -1.79                         | -3.62                         | -4.49                | -8.02                | 0.40                            | -3.07                  | -2.67      | -1             | -1.67       |
|          | 6265            | 63      | be (320MHz) | -2.13                         | -3.33                         | -4.49                | -8.02                | 0.32                            | -3.07                  | -2.74      | -1             | -1.74       |
|          | 6435            | 97      | be (20MHz)  | -4.44                         | -5.44                         | -7.13                | -10.74               | -1.90                           | -5.74                  | -7.64      | -1             | -6.64       |
|          | 6475            | 105     | be (20MHz)  | -4.43                         | -5.45                         | -7.13                | -10.74               | -1.90                           | -5.74                  | -7.64      | -1             | -6.64       |
|          | 6515            | 113     | be (20MHz)  | -4.22                         | -5.69                         | -7.13                | -10.74               | -1.88                           | -5.74                  | -7.62      | -1             | -6.62       |
|          | 6445            | 99      | be (40MHz)  | -3.21                         | -4.42                         | -7.13                | -10.74               | -0.76                           | -5.74                  | -6.50      | -1             | -5.50       |
|          | 6485            | 107     | be (40MHz)  | -3.14                         | -4.29                         | -7.13                | -10.74               | -0.67                           | -5.74                  | -6.41      | -1             | -5.41       |
|          | 6525            | 115     | be (40MHz)  | -2.95                         | -4.37                         | -7.13                | -10.74               | -0.59                           | -5.74                  | -6.33      | -1             | -5.33       |
| Band 7   | 6465            | 103     | be (80MHz)  | -3.45                         | -5.06                         | -7.13                | -10.74               | -1.17                           | -5.74                  | -6.91      | -1             | -5.91       |
|          | 6505            | 111     | be (160MHz) | -3.15                         | -4.38                         | -7.13                | -10.74               | -0.71                           | -5.74                  | -6.45      | -1             | -5.45       |
|          | 6425            | 95      | be (320MHz) | -2.15                         | -3.77                         | -7.13                | -10.74               | 0.13                            | -5.74                  | -5.61      | -1             | -4.61       |
|          | 6695            | 117     | be (20MHz)  | -4.18                         | -5.36                         | -5.98                | -5.99                | -1.72                           | -2.97                  | -4.69      | -1             | -3.69       |
|          | 6695            | 149     | be (20MHz)  | -3.14                         | -5.15                         | -5.98                | -5.99                | -1.02                           | -2.97                  | -3.99      | -1             | -2.99       |
|          | 6875            | 185     | be (20MHz)  | -3.99                         | -5.88                         | -5.98                | -5.99                | -1.82                           | -2.97                  | -4.80      | -1             | -3.80       |
|          | 6565            | 123     | be (40MHz)  | -2.63                         | -4.45                         | -5.98                | -5.99                | -0.44                           | -2.97                  | -3.41      | -1             | -2.41       |
|          | 6725            | 155     | be (40MHz)  | -1.83                         | -4.20                         | -5.98                | -5.99                | 0.15                            | -2.97                  | -2.82      | -1             | -1.82       |
|          | 6845            | 179     | be (40MHz)  | -2.38                         | -4.75                         | -5.98                | -5.99                | -0.40                           | -2.97                  | -3.37      | -1             | -2.37       |
|          | 6545            | 119     | be (80MHz)  | -3.74                         | -4.95                         | -5.98                | -5.99                | -1.29                           | -2.97                  | -4.27      | -1             | -3.27       |
|          | 6705            | 151     | be (80MHz)  | -3.02                         | -4.72                         | -5.98                | -5.99                | -0.77                           | -2.97                  | -3.75      | -1             | -2.75       |
|          | 6865            | 183     | be (80MHz)  | -2.95                         | -4.97                         | -5.98                | -5.99                | -0.84                           | -2.97                  | -3.81      | -1             | -2.81       |
| Band 8   | 6665            | 143     | be (160MHz) | -3.03                         | -4.99                         | -5.98                | -5.99                | -0.89                           | -2.97                  | -3.87      | -1             | -2.87       |
|          | 6825            | 175     | be (160MHz) | -3.50                         | -4.78                         | -5.98                | -5.99                | -1.08                           | -2.97                  | -4.05      | -1             | -3.05       |
|          | 6585            | 127     | be (320MHz) | -1.16                         | -3.62                         | -5.98                | -5.99                | 0.79                            | -2.97                  | -2.18      | -1             | -1.18       |
|          | 6745            | 159     | be (320MHz) | -1.15                         | -3.13                         | -5.98                | -5.99                | 0.98                            | -2.97                  | -1.99      | -1             | -0.99       |
|          | 6895            | 189     | be (20MHz)  | -4.57                         | -5.93                         | -5.98                | -4.25                | -2.19                           | -2.06                  | -4.25      | -1             | -3.25       |
|          | 6995            | 209     | be (20MHz)  | -3.88                         | -5.31                         | -5.98                | -4.25                | -1.53                           | -2.06                  | -3.59      | -1             | -2.59       |
|          | 7115            | 233     | be (20MHz)  | -4.00                         | -4.35                         | -5.98                | -4.25                | -1.16                           | -2.06                  | -3.22      | -1             | -2.22       |
|          | 6885            | 187     | be (40MHz)  | -2.93                         | -4.61                         | -5.98                | -4.25                | -0.68                           | -2.06                  | -2.74      | -1             | -1.74       |
| Band 7/8 | 6965            | 211     | be (40MHz)  | -3.37                         | -4.18                         | -5.98                | -4.25                | -0.75                           | -2.06                  | -2.81      | -1             | -1.81       |
|          | 7085            | 227     | be (40MHz)  | -2.44                         | -3.82                         | -5.98                | -4.25                | -0.07                           | -2.06                  | -2.13      | -1             | -1.13       |
|          | 6945            | 199     | be (80MHz)  | -3.08                         | -4.89                         | -5.98                | -4.25                | -0.88                           | -2.06                  | -2.94      | -1             | -1.94       |
|          | 7025            | 215     | be (80MHz)  | -3.34                         | -5.01                         | -5.98                | -4.25                | -1.09                           | -2.06                  | -3.15      | -1             | -2.15       |
|          | 6985            | 207     | be (160MHz) | -3.66                         | -4.75                         | -5.98                | -4.25                | -1.16                           | -2.06                  | -3.22      | -1             | -2.22       |
|          | 6985            | 191     | be (320MHz) | -4.03                         | -4.11                         | -5.98                | -4.25                | -1.06                           | -2.06                  | -3.12      | -1             | -2.12       |

Table 7-77. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (26 Tones) – LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 75 of 158                    |

|            | Frequency [MHz] | Channel | 802.11 MODE | MRU Cases  | Antenna-1 Power Density [dBm/MHz] | Antenna-2 Power Density [dBm/MHz] | Antenna-1 Gain [dBi] | Antenna-2 Gain [dBi] | Summed MIMO Power Density [dBm/MHz] | Directional Gain [dBi] | DCCF [dB] | EIRP Density [dBm/MHz] | EIRP Density Limit [dBm/MHz] | Margin [dB] |
|------------|-----------------|---------|-------------|------------|-----------------------------------|-----------------------------------|----------------------|----------------------|-------------------------------------|------------------------|-----------|------------------------|------------------------------|-------------|
| Band 5     | 6175            | 45      | be (20MHz)  | 52+26T     | -4.55                             | -7.08                             | -4.49                | -8.02                | -2.62                               | -3.07                  | 0.00      | -5.69                  | -1                           | -4.69       |
|            | 6175            | 45      | be (20MHz)  | 106+26T    | -3.26                             | -6.45                             | -4.49                | -8.02                | -1.56                               | -3.07                  | 0.00      | -4.63                  | -1                           | -3.63       |
|            | 6145            | 39      | be (80MHz)  | 484+242T   | -3.42                             | -6.29                             | -4.49                | -8.02                | -1.61                               | -3.07                  | 0.10      | -4.58                  | -1                           | -3.58       |
|            | 6185            | 47      | be (160MHz) | 996+484T   | -3.00                             | -5.51                             | -4.49                | -8.02                | -1.07                               | -3.07                  | 0.11      | -4.02                  | -1                           | -3.02       |
|            | 6105            | 31      | be (320MHz) | 2x996+484T | -5.76                             | -9.02                             | -4.49                | -8.02                | -4.08                               | -3.07                  | 0.00      | -7.15                  | -1                           | -6.15       |
|            | 6105            | 31      | be (320MHz) | 3x996T     | -6.62                             | -9.57                             | -4.49                | -8.02                | -4.84                               | -3.07                  | 0.00      | -7.90                  | -1                           | -6.90       |
| Band 6     | 6105            | 31      | be (320MHz) | 2x996+484T | -5.76                             | -9.02                             | -7.13                | -10.74               | -4.08                               | -5.74                  | 0.10      | -9.72                  | -1                           | -8.72       |
|            | 6475            | 105     | be (20MHz)  | 52+26T     | -0.38                             | -3.71                             | -7.13                | -10.74               | 1.28                                | -5.74                  | 0.00      | -4.46                  | -1                           | -3.46       |
|            | 6475            | 105     | be (20MHz)  | 106+26T    | -2.60                             | -5.80                             | -7.13                | -10.74               | -0.90                               | -5.74                  | 0.00      | -6.64                  | -1                           | -5.64       |
|            | 6465            | 103     | be (80MHz)  | 484+242T   | -2.67                             | -6.41                             | -7.13                | -10.74               | -1.14                               | -5.74                  | 0.10      | -6.78                  | -1                           | -5.78       |
| Band 5/6/7 | 6505            | 111     | be (160MHz) | 996+484T   | -1.78                             | -5.12                             | -7.13                | -10.74               | -0.13                               | -5.74                  | 0.11      | -5.75                  | -1                           | -4.75       |
|            | 6425            | 95      | be (320MHz) | 3x996+484T | -5.40                             | -8.60                             | -7.13                | -10.74               | -3.70                               | -5.74                  | 0.00      | -9.44                  | -1                           | -8.44       |
|            | 6425            | 95      | be (320MHz) | 3x996T     | -5.64                             | -9.37                             | -5.98                | -5.99                | -4.11                               | -2.97                  | 0.00      | -7.08                  | -1                           | -6.08       |
| Band 7     | 6425            | 95      | be (320MHz) | 2x996+484T | -5.40                             | -8.60                             | -5.98                | -5.99                | -3.70                               | -2.97                  | 0.10      | -6.58                  | -1                           | -5.58       |
|            | 6695            | 149     | be (20MHz)  | 52+26T     | -2.26                             | -3.55                             | -5.98                | -5.99                | 0.16                                | -2.97                  | 0.00      | -2.82                  | -1                           | -1.82       |
|            | 6695            | 149     | be (20MHz)  | 106+26T    | -4.13                             | -5.69                             | -5.98                | -5.99                | -1.83                               | -2.97                  | 0.00      | -4.81                  | -1                           | -3.81       |
|            | 6705            | 151     | be (80MHz)  | 484+242T   | -4.27                             | -5.46                             | -5.98                | -5.99                | -1.81                               | -2.97                  | 0.10      | -4.69                  | -1                           | -3.69       |
|            | 6665            | 143     | be (160MHz) | 996+484T   | -4.66                             | -5.00                             | -5.98                | -5.99                | -1.82                               | -2.97                  | 0.11      | -4.69                  | -1                           | -3.69       |
| Band 7/8   | 6745            | 159     | be (320MHz) | 3x996+484T | -6.35                             | -8.28                             | -5.98                | -5.99                | -4.20                               | -2.97                  | 0.00      | -7.17                  | -1                           | -6.17       |
|            | 6745            | 159     | be (320MHz) | 3x996T     | -7.87                             | -8.70                             | -5.98                | -4.25                | -5.25                               | -2.06                  | 0.00      | -7.32                  | -1                           | -6.32       |
|            | 6745            | 159     | be (320MHz) | 2x996+484T | -6.35                             | -8.28                             | -5.98                | -4.25                | -4.20                               | -2.06                  | 0.10      | -6.16                  | -1                           | -5.16       |
| Band 8     | 6995            | 209     | be (20MHz)  | 52+26T     | -5.10                             | -5.09                             | -6.78                | -5.41                | -2.08                               | -3.06                  | 0.00      | -5.14                  | -1                           | -4.14       |
|            | 6995            | 209     | be (20MHz)  | 106+26T    | -4.45                             | -4.76                             | -5.98                | -4.25                | -1.59                               | -2.06                  | 0.00      | -3.65                  | -1                           | -2.65       |
|            | 7025            | 215     | be (80MHz)  | 484+242T   | -4.83                             | -4.93                             | -5.98                | -4.25                | -1.87                               | -2.06                  | 0.10      | -3.83                  | -1                           | -2.83       |
|            | 6985            | 207     | be (160MHz) | 996+484T   | -4.16                             | -4.45                             | -5.98                | -4.25                | -1.29                               | -2.06                  | 0.11      | -3.24                  | -1                           | -2.24       |
| Band 7/8   | 6905            | 191     | be (320MHz) | 3x996+484T | -7.00                             | -7.86                             | -6.78                | -5.41                | -4.40                               | -3.06                  | 0.00      | -7.46                  | -1                           | -6.46       |
|            | 6905            | 191     | be (320MHz) | 3x996T     | -7.54                             | -9.02                             | -6.78                | -5.41                | -5.21                               | -3.06                  | 0.00      | -8.27                  | -1                           | -7.27       |
|            | 6905            | 191     | be (320MHz) | 2x996+484T | -7.00                             | -7.86                             | -6.78                | -5.41                | -4.40                               | -3.06                  | 0.10      | -7.36                  | -1                           | -6.36       |

**Table 7-78. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (MRU Cases) – LPI**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 76 of 158                           |

|        | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Antenna-1 Gain [dBi] | Antenna-2 Gain [dBi] | Summed MIMO Power Density [dBm] | Directional Gain [dBi] | DCCF [dB] | EIRP [dBm] | Max EIRP [dBm] | Margin [dB] |
|--------|-----------------|---------|-------------|-------------------------------|-------------------------------|----------------------|----------------------|---------------------------------|------------------------|-----------|------------|----------------|-------------|
| Band 5 | 5935            | 2       | be (20MHz)  | -1.48                         | -1.57                         | -4.49                | -8.02                | 1.49                            | -3.07                  | 0.00      | -1.58      | -1             | -0.58       |
|        | 6175            | 45      | be (20MHz)  | -1.30                         | -1.82                         | -4.49                | -8.02                | 1.46                            | -3.07                  | 0.00      | -1.61      | -1             | -0.61       |
|        | 6415            | 93      | be (20MHz)  | -1.90                         | -1.93                         | -4.49                | -8.02                | 1.09                            | -3.07                  | 0.00      | -1.97      | -1             | -0.97       |
|        | 5965            | 3       | be (40MHz)  | -2.18                         | -2.32                         | -4.49                | -8.02                | 0.76                            | -3.07                  | 0.10      | -2.21      | -1             | -1.21       |
|        | 6165            | 43      | be (40MHz)  | -1.92                         | -2.59                         | -4.49                | -8.02                | 0.77                            | -3.07                  | 0.10      | -2.20      | -1             | -1.20       |
|        | 6405            | 91      | be (40MHz)  | -1.58                         | -1.70                         | -4.49                | -8.02                | 1.37                            | -3.07                  | 0.10      | -1.59      | -1             | -0.59       |
|        | 5985            | 7       | be (80MHz)  | -2.32                         | -3.06                         | -4.49                | -8.02                | 0.33                            | -3.07                  | 0.13      | -2.60      | -1             | -1.60       |
|        | 6145            | 39      | be (80MHz)  | -2.13                         | -2.62                         | -4.49                | -8.02                | 0.64                            | -3.07                  | 0.13      | -2.29      | -1             | -1.29       |
|        | 6385            | 87      | be (80MHz)  | -1.91                         | -2.26                         | -4.49                | -8.02                | 0.93                            | -3.07                  | 0.13      | -2.00      | -1             | -1.00       |
|        | 6025            | 15      | be (160MHz) | -6.54                         | -7.35                         | -4.49                | -8.02                | -3.91                           | -3.07                  | 0.00      | -6.98      | -1             | -5.98       |
|        | 6185            | 47      | be (160MHz) | -6.46                         | -7.01                         | -4.49                | -8.02                | -3.72                           | -3.07                  | 0.00      | -6.79      | -1             | -5.79       |
|        | 6345            | 79      | be (160MHz) | -6.31                         | -6.67                         | -4.49                | -8.02                | -3.48                           | -3.07                  | 0.00      | -6.54      | -1             | -5.54       |
| Band 6 | 6105            | 31      | be (320MHz) | -8.34                         | -8.99                         | -4.49                | -8.02                | -5.64                           | -3.07                  | 0.00      | -8.71      | -1             | -7.71       |
|        | 6265            | 63      | be (320MHz) | -8.18                         | -7.71                         | -4.49                | -8.02                | -4.92                           | -3.07                  | 0.00      | -7.99      | -1             | -6.99       |
|        | 6435            | 97      | be (20MHz)  | -1.66                         | -1.84                         | -7.13                | -10.74               | 1.26                            | -5.74                  | 0.00      | -4.48      | -1             | -3.48       |
|        | 6475            | 105     | be (20MHz)  | -1.73                         | -1.48                         | -7.13                | -10.74               | 1.41                            | -5.74                  | 0.00      | -4.33      | -1             | -3.33       |
|        | 6515            | 113     | be (20MHz)  | -1.24                         | -1.36                         | -7.13                | -10.74               | 1.71                            | -5.74                  | 0.00      | -4.03      | -1             | -3.03       |
|        | 6445            | 99      | be (40MHz)  | -1.34                         | -1.87                         | -7.13                | -10.74               | 1.41                            | -5.74                  | 0.10      | -4.22      | -1             | -3.22       |
|        | 6485            | 107     | be (40MHz)  | -1.32                         | -1.42                         | -7.13                | -10.74               | 1.64                            | -5.74                  | 0.10      | -4.00      | -1             | -3.00       |
|        | 6525            | 115     | be (40MHz)  | -1.28                         | -1.26                         | -7.13                | -10.74               | 1.74                            | -5.74                  | 0.10      | -3.89      | -1             | -2.89       |
|        | 6465            | 103     | be (80MHz)  | -2.24                         | -2.06                         | -7.13                | -10.74               | 0.86                            | -5.74                  | 0.13      | -4.75      | -1             | -3.75       |
|        | 6505            | 111     | be (160MHz) | -6.45                         | -6.72                         | -7.13                | -10.74               | -3.57                           | -5.74                  | 0.00      | -9.31      | -1             | -8.31       |
|        | 6425            | 95      | be (320MHz) | -8.18                         | -8.49                         | -7.13                | -10.74               | -5.32                           | -5.74                  | 0.00      | -11.06     | -1             | -10.06      |
|        | 6695            | 117     | be (20MHz)  | -1.04                         | -1.31                         | -5.98                | -5.99                | 1.83                            | -2.97                  | 0.00      | -1.14      | -1             | -0.14       |
| Band 7 | 6695            | 149     | be (20MHz)  | -1.33                         | -1.12                         | -5.98                | -5.99                | 1.79                            | -2.97                  | 0.00      | -1.18      | -1             | -0.18       |
|        | 6875            | 185     | be (20MHz)  | -2.17                         | -1.98                         | -5.98                | -5.99                | 0.94                            | -2.97                  | 0.00      | -2.03      | -1             | -1.03       |
|        | 6565            | 123     | be (40MHz)  | -2.01                         | -1.76                         | -5.98                | -5.99                | 1.13                            | -2.97                  | 0.10      | -1.75      | -1             | -0.75       |
|        | 6725            | 155     | be (40MHz)  | -1.64                         | -1.82                         | -5.98                | -5.99                | 1.28                            | -2.97                  | 0.10      | -1.59      | -1             | -0.59       |
|        | 6845            | 179     | be (40MHz)  | -1.89                         | -1.64                         | -5.98                | -5.99                | 1.25                            | -2.97                  | 0.10      | -1.63      | -1             | -0.63       |
|        | 6545            | 119     | be (80MHz)  | -2.01                         | -1.79                         | -5.98                | -5.99                | 1.11                            | -2.97                  | 0.13      | -1.73      | -1             | -0.73       |
|        | 6705            | 151     | be (80MHz)  | -2.07                         | -1.97                         | -5.98                | -5.99                | 0.99                            | -2.97                  | 0.13      | -1.85      | -1             | -0.85       |
|        | 6865            | 183     | be (80MHz)  | -2.59                         | -2.03                         | -5.98                | -5.99                | 0.71                            | -2.97                  | 0.13      | -2.14      | -1             | -1.14       |
|        | 6665            | 143     | be (160MHz) | -7.36                         | -6.80                         | -5.98                | -5.99                | -4.06                           | -2.97                  | 0.00      | -7.04      | -1             | -6.04       |
|        | 6825            | 175     | be (160MHz) | -7.07                         | -6.65                         | -5.98                | -5.99                | -3.85                           | -2.97                  | 0.00      | -6.82      | -1             | -5.82       |
|        | 6585            | 127     | be (320MHz) | -8.58                         | -8.14                         | -5.98                | -5.99                | -5.34                           | -2.97                  | 0.00      | -8.32      | -1             | -7.32       |
|        | 6745            | 159     | be (320MHz) | -8.47                         | -8.07                         | -5.98                | -5.99                | -5.25                           | -2.97                  | 0.00      | -8.23      | -1             | -7.23       |
| Band 8 | 6895            | 189     | be (20MHz)  | -2.35                         | -1.81                         | -5.98                | -4.25                | 0.94                            | -2.06                  | 0.00      | -1.12      | -1             | -0.12       |
|        | 6995            | 209     | be (20MHz)  | -2.83                         | -1.89                         | -5.98                | -4.25                | 0.68                            | -2.06                  | 0.00      | -1.38      | -1             | -0.38       |
|        | 7115            | 233     | be (20MHz)  | -2.51                         | -2.11                         | -5.98                | -4.25                | 0.71                            | -2.06                  | 0.00      | -1.35      | -1             | -0.35       |
|        | 6885            | 187     | be (40MHz)  | -2.37                         | -1.88                         | -5.98                | -4.25                | 0.89                            | -2.06                  | 0.10      | -1.07      | -1             | -0.07       |
|        | 6965            | 211     | be (40MHz)  | -2.56                         | -1.91                         | -5.98                | -4.25                | 0.79                            | -2.06                  | 0.10      | -1.17      | -1             | -0.17       |
|        | 7085            | 227     | be (40MHz)  | -2.49                         | -1.85                         | -5.98                | -4.25                | 0.85                            | -2.06                  | 0.10      | -1.11      | -1             | -0.11       |
|        | 6945            | 199     | be (80MHz)  | -2.49                         | -2.20                         | -5.98                | -4.25                | 0.67                            | -2.06                  | 0.13      | -1.27      | -1             | -0.27       |
|        | 7025            | 215     | be (80MHz)  | -2.88                         | -2.06                         | -5.98                | -4.25                | 0.56                            | -2.06                  | 0.13      | -1.37      | -1             | -0.37       |
|        | 6985            | 207     | be (160MHz) | -8.40                         | -6.66                         | -5.98                | -4.25                | -4.43                           | -2.06                  | 0.00      | -6.49      | -1             | -5.49       |
|        | 6905            | 191     | be (320MHz) | -8.74                         | -8.22                         | -5.98                | -4.25                | -5.46                           | -2.06                  | 0.00      | -7.52      | -1             | -6.52       |

**Table 7-79. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (Full Tones) – LPI**

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 77 of 158                    |

|          | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Antenna-1 Gain [dBi] | Antenna-2 Gain [dBi] | Summed MIMO Power Density [dBm] | Directional Gain [dBi] | EIRP [dBm] | Max EIRP [dBm] | Margin [dB] |
|----------|-----------------|---------|-------------|-------------------------------|-------------------------------|----------------------|----------------------|---------------------------------|------------------------|------------|----------------|-------------|
| Band 5   | 5935            | 2       | be (20MHz)  | 13.80                         | 12.28                         | -4.49                | -8.02                | 16.12                           | -3.07                  | 13.05      | 17             | -3.95       |
|          | 6175            | 45      | be (20MHz)  | 14.19                         | 11.12                         | -4.49                | -8.02                | 15.93                           | -3.07                  | 12.86      | 17             | -4.14       |
|          | 6415            | 93      | be (20MHz)  | 14.59                         | 11.33                         | -4.49                | -8.02                | 16.27                           | -3.07                  | 13.20      | 17             | -3.80       |
|          | 5965            | 3       | be (40MHz)  | 14.79                         | 12.87                         | -4.49                | -8.02                | 16.94                           | -3.07                  | 13.88      | 17             | -3.12       |
|          | 6165            | 43      | be (40MHz)  | 15.09                         | 12.07                         | -4.49                | -8.02                | 16.85                           | -3.07                  | 13.78      | 17             | -3.22       |
|          | 6405            | 91      | be (40MHz)  | 15.15                         | 12.11                         | -4.49                | -8.02                | 16.90                           | -3.07                  | 13.83      | 17             | -3.17       |
|          | 5985            | 7       | be (80MHz)  | 14.57                         | 12.40                         | -4.49                | -8.02                | 16.63                           | -3.07                  | 13.56      | 17             | -3.44       |
|          | 6145            | 39      | be (80MHz)  | 14.87                         | 11.92                         | -4.49                | -8.02                | 16.65                           | -3.07                  | 13.58      | 17             | -3.42       |
|          | 6385            | 87      | be (80MHz)  | 15.12                         | 11.81                         | -4.49                | -8.02                | 16.78                           | -3.07                  | 13.71      | 17             | -3.29       |
|          | 6025            | 15      | be (160MHz) | 14.82                         | 11.38                         | -4.49                | -8.02                | 16.44                           | -3.07                  | 13.38      | 17             | -3.62       |
|          | 6185            | 47      | be (160MHz) | 14.64                         | 11.36                         | -4.49                | -8.02                | 16.32                           | -3.07                  | 13.25      | 17             | -3.75       |
|          | 6345            | 79      | be (160MHz) | 14.80                         | 10.83                         | -4.49                | -8.02                | 16.26                           | -3.07                  | 13.20      | 17             | -3.80       |
| Band 7   | 6105            | 31      | be (320MHz) | 14.39                         | 10.74                         | -4.49                | -8.02                | 15.95                           | -3.07                  | 12.89      | 17             | -4.11       |
|          | 6265            | 63      | be (320MHz) | 14.52                         | 11.03                         | -4.49                | -8.02                | 16.13                           | -3.07                  | 13.06      | 17             | -3.94       |
|          | 6695            | 117     | be (20MHz)  | 13.03                         | 11.40                         | -5.98                | -5.99                | 15.30                           | -2.97                  | 12.33      | 17             | -4.67       |
|          | 6695            | 149     | be (20MHz)  | 12.63                         | 11.41                         | -5.98                | -5.99                | 15.07                           | -2.97                  | 12.10      | 17             | -4.90       |
|          | 6875            | 181     | be (20MHz)  | 12.86                         | 11.65                         | -5.98                | -5.99                | 15.30                           | -2.97                  | 12.33      | 17             | -4.67       |
|          | 6565            | 123     | be (40MHz)  | 13.74                         | 12.31                         | -5.98                | -5.99                | 16.09                           | -2.97                  | 13.12      | 17             | -3.88       |
|          | 6725            | 155     | be (40MHz)  | 13.59                         | 13.05                         | -5.98                | -5.99                | 16.34                           | -2.97                  | 13.36      | 17             | -3.64       |
|          | 6845            | 179     | be (40MHz)  | 13.78                         | 12.76                         | -5.98                | -5.99                | 16.31                           | -2.97                  | 13.34      | 17             | -3.66       |
|          | 6545            | 135     | be (80MHz)  | 12.52                         | 12.04                         | -5.98                | -5.99                | 15.30                           | -2.97                  | 12.32      | 17             | -4.68       |
|          | 6705            | 151     | be (80MHz)  | 14.05                         | 12.78                         | -5.98                | -5.99                | 16.47                           | -2.97                  | 13.50      | 17             | -3.50       |
|          | 6865            | 167     | be (80MHz)  | 13.69                         | 12.44                         | -5.98                | -5.99                | 16.12                           | -2.97                  | 13.15      | 17             | -3.85       |
|          | 6665            | 143     | be (160MHz) | 12.72                         | 11.54                         | -5.98                | -5.99                | 15.18                           | -2.97                  | 12.21      | 17             | -4.79       |
| Band 7/8 | 6825            | 175     | be (160MHz) | 13.30                         | 12.19                         | -5.98                | -5.99                | 15.79                           | -2.97                  | 12.81      | 17             | -4.19       |
|          | 6745            | 159     | be (320MHz) | 13.45                         | 11.75                         | -5.98                | -5.99                | 15.69                           | -2.97                  | 12.72      | 17             | -4.28       |

**Table 7-80. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (26 Tones) – SP**

|        | Frequency [MHz] | Channel | 802.11 MODE | MRU Cases | Antenna-1 Power Density [dBm/MHz] | Antenna-2 Power Density [dBm/MHz] | Antenna-1 Gain [dBi] | Antenna-2 Gain [dBi] | Summed MIMO Power Density [dBm/MHz] | Directional Gain [dBi] | EIRP Density [dBm/MHz] | EIRP Density Limit [dBm/MHz] | Margin [dB] |
|--------|-----------------|---------|-------------|-----------|-----------------------------------|-----------------------------------|----------------------|----------------------|-------------------------------------|------------------------|------------------------|------------------------------|-------------|
| Band 5 | 6175            | 45      | be (20MHz)  | 52+26T    | 7.90                              | 3.79                              | -4.49                | -8.02                | 9.32                                | -5.91                  | 3.42                   | 17                           | -13.58      |
|        | 6175            | 45      | be (20MHz)  | 106+26T   | 5.98                              | 1.69                              | -4.49                | -8.02                | 7.36                                | -5.91                  | 1.45                   | 17                           | -15.55      |
| Band 7 | 6695            | 149     | be (20MHz)  | 52+26T    | 6.43                              | 4.50                              | -5.98                | -5.99                | 8.58                                | -5.98                  | 2.60                   | 17                           | -14.40      |
|        | 6695            | 149     | be (20MHz)  | 106+26T   | 4.16                              | 2.54                              | -5.98                | -5.99                | 6.43                                | -5.98                  | 0.45                   | 17                           | -16.55      |

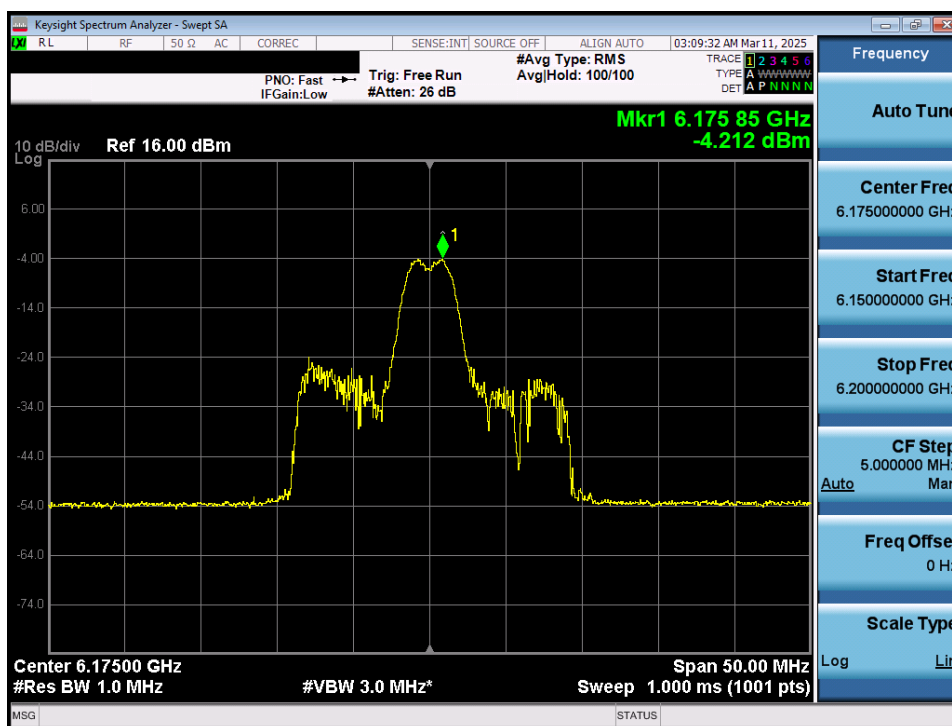
**Table 7-81. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (MRU Cases) – SP**

|        | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Antenna-1 Gain [dBi] | Antenna-2 Gain [dBi] | Summed MIMO Power Density [dBm] | Directional Gain [dBi] | DCCF [dB] | EIRP [dBm] | Max EIRP [dBm] | Margin [dB] |
|--------|-----------------|---------|-------------|-------------------------------|-------------------------------|----------------------|----------------------|---------------------------------|------------------------|-----------|------------|----------------|-------------|
| Band 5 | 5935            | 2       | be (20MHz)  | 6.12                          | 3.56                          | -4.49                | -8.02                | 8.04                            | -3.07                  | 0.00      | 4.97       | 17             | -12.03      |
|        | 6175            | 45      | be (20MHz)  | 6.26                          | 2.34                          | -4.49                | -8.02                | 7.74                            | -3.07                  | 0.00      | 4.67       | 17             | -12.33      |
|        | 6415            | 93      | be (20MHz)  | 6.81                          | 2.33                          | -4.49                | -8.02                | 8.13                            | -3.07                  | 0.00      | 5.07       | 17             | -11.93      |
|        | 5965            | 3       | be (40MHz)  | 2.86                          | 0.45                          | -4.49                | -8.02                | 4.83                            | -3.07                  | 0.10      | 1.86       | 17             | -15.14      |
|        | 6165            | 43      | be (40MHz)  | 3.02                          | -0.64                         | -4.49                | -8.02                | 4.58                            | -3.07                  | 0.10      | 1.61       | 17             | -15.39      |
|        | 6405            | 91      | be (40MHz)  | 4.03                          | -0.75                         | -4.49                | -8.02                | 5.28                            | -3.07                  | 0.10      | 2.31       | 17             | -14.69      |
|        | 6695            | 117     | be (20MHz)  | 6.16                          | 2.94                          | -5.98                | -5.99                | 7.85                            | -2.97                  | 0.00      | 4.88       | 17             | -12.12      |
|        | 6695            | 149     | be (20MHz)  | 4.61                          | 3.09                          | -5.98                | -5.99                | 6.93                            | -2.97                  | 0.00      | 3.95       | 17             | -13.05      |
|        | 6875            | 181     | be (20MHz)  | 4.96                          | 3.52                          | -5.98                | -5.99                | 7.31                            | -2.97                  | 0.00      | 4.34       | 17             | -12.66      |
|        | 6565            | 123     | be (40MHz)  | 2.92                          | -0.27                         | -5.98                | -5.99                | 4.62                            | -2.97                  | 0.10      | 1.75       | 17             | -15.25      |
|        | 6725            | 155     | be (40MHz)  | 1.53                          | 0.56                          | -5.98                | -5.99                | 4.08                            | -2.97                  | 0.10      | 1.21       | 17             | -15.79      |
|        | 6845            | 179     | be (40MHz)  | 2.06                          | 0.18                          | -5.98                | -5.99                | 4.23                            | -2.97                  | 0.10      | 1.36       | 17             | -15.64      |

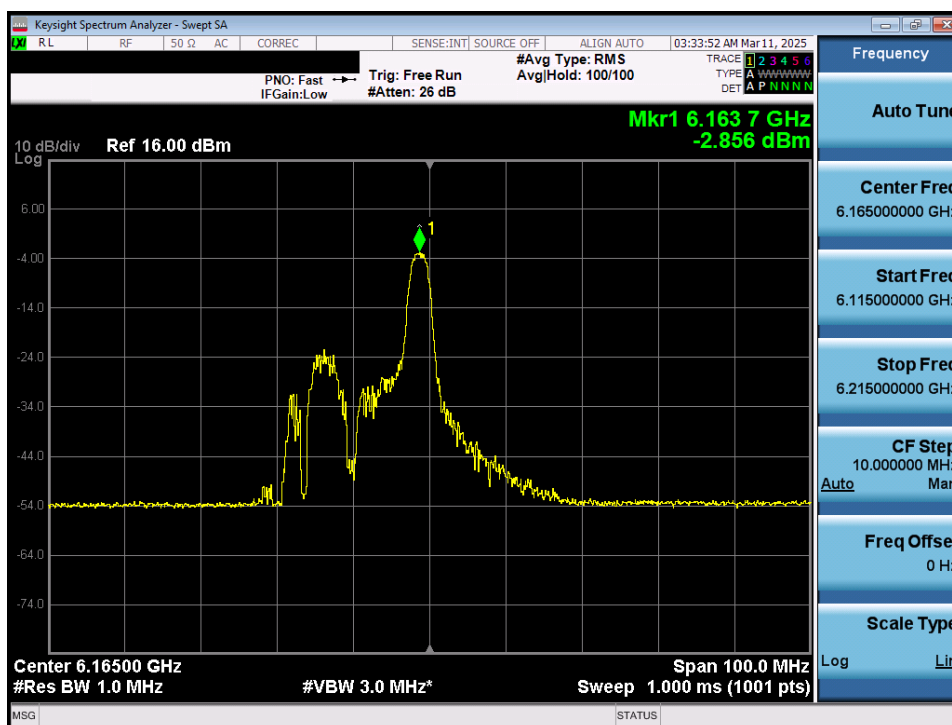
**Table 7-82. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (Full Tones) – SP**

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 78 of 158                    |

## 7.4.1 MIMO Antenna-1 Power Spectral Density Measurements

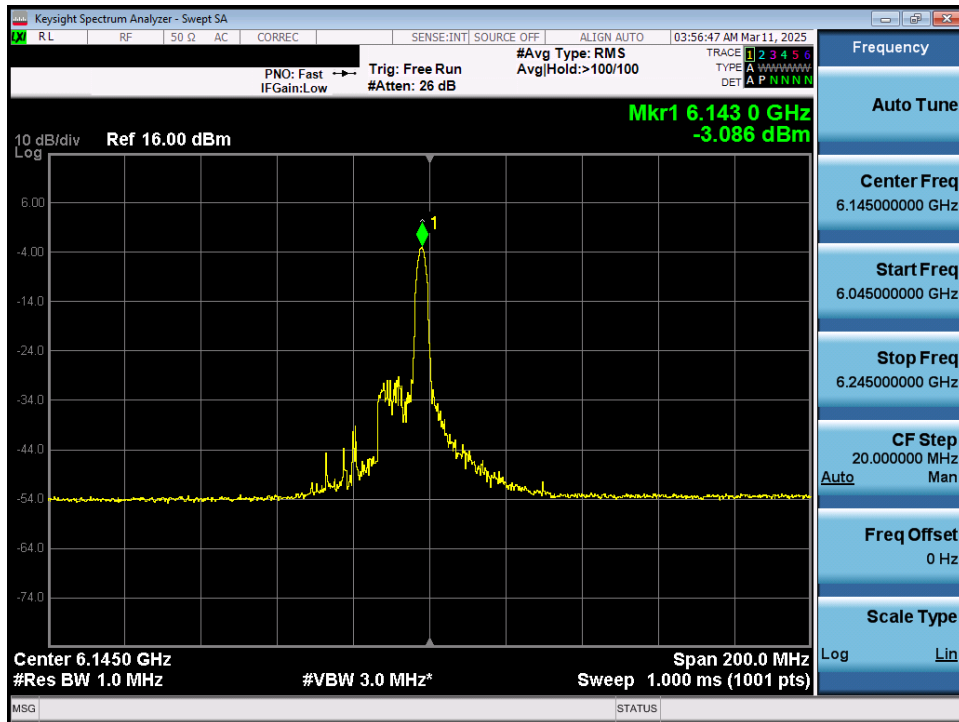


Plot 7-45. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - LPI

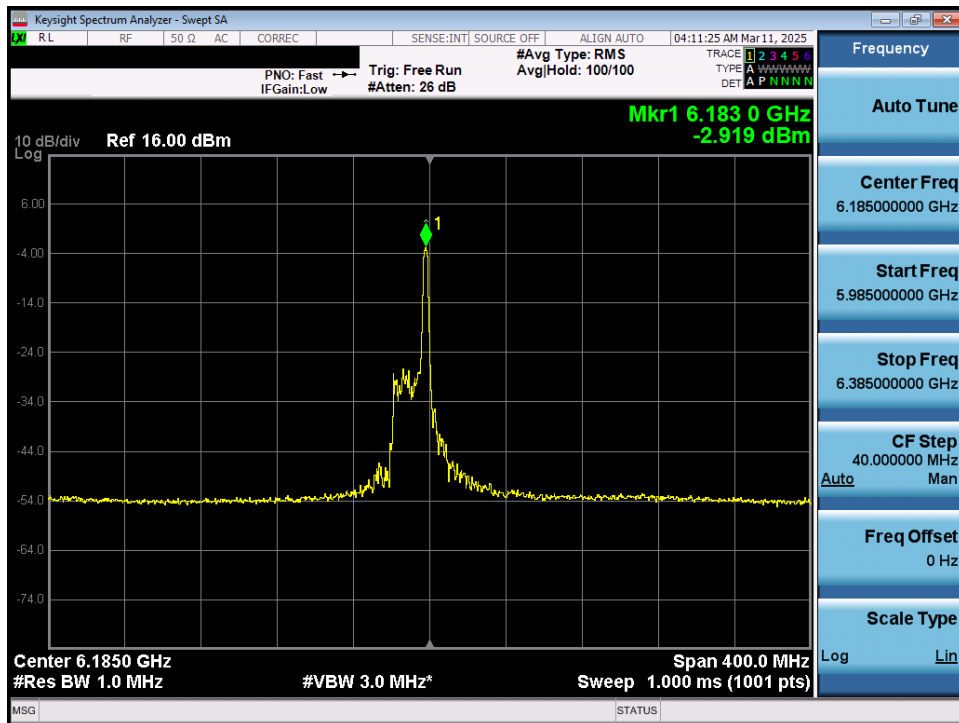


Plot 7-46. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 79 of 158                    |

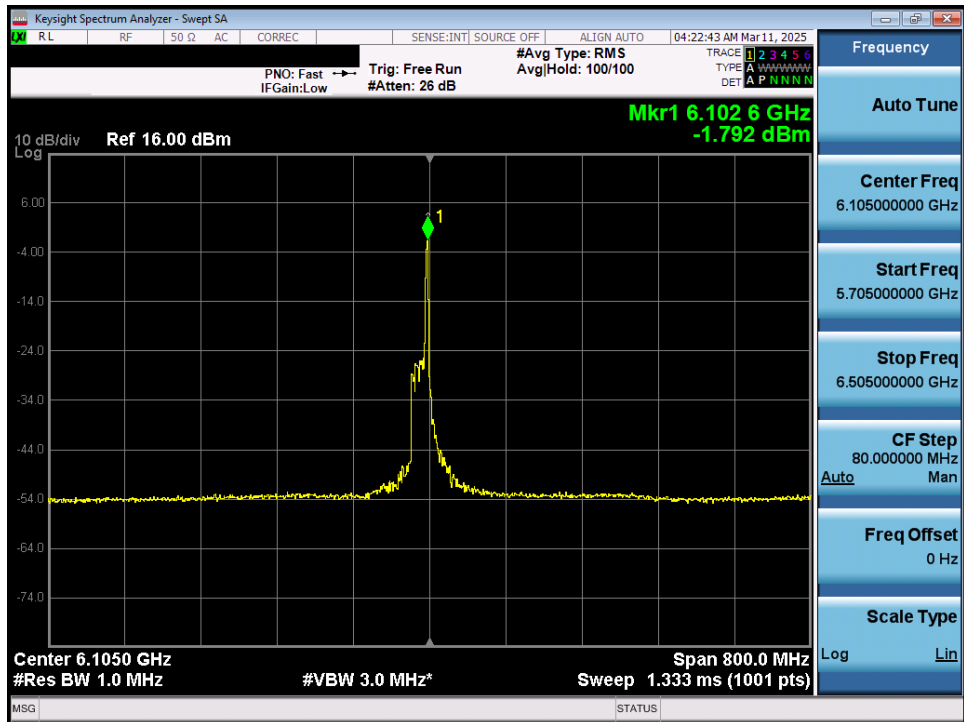


Plot 7-47. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - LPI

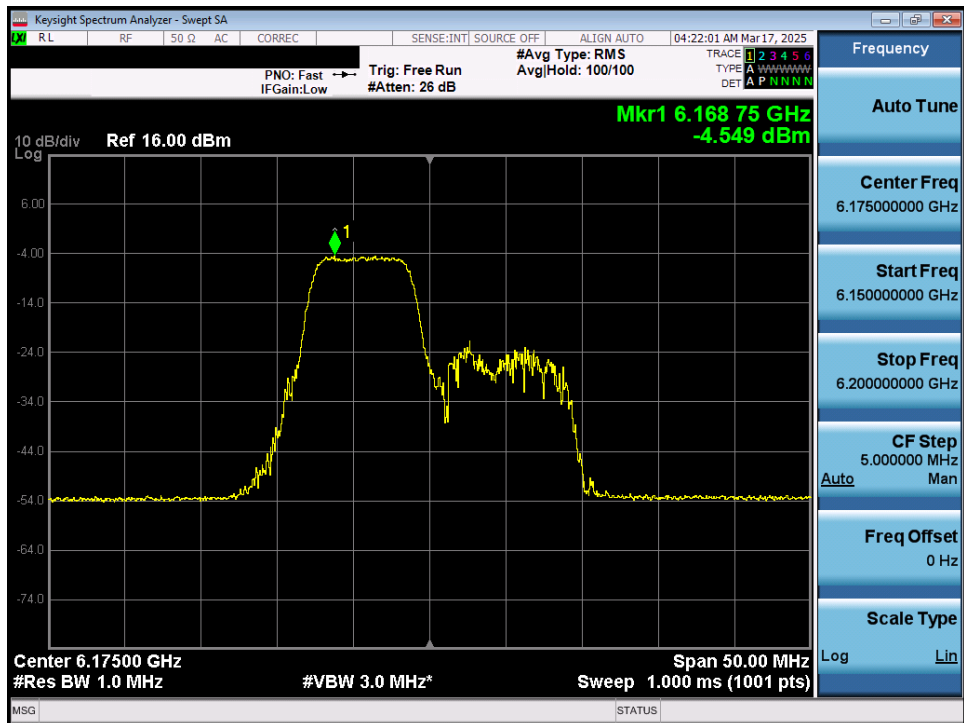


Plot 7-48. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 80 of 158                    |

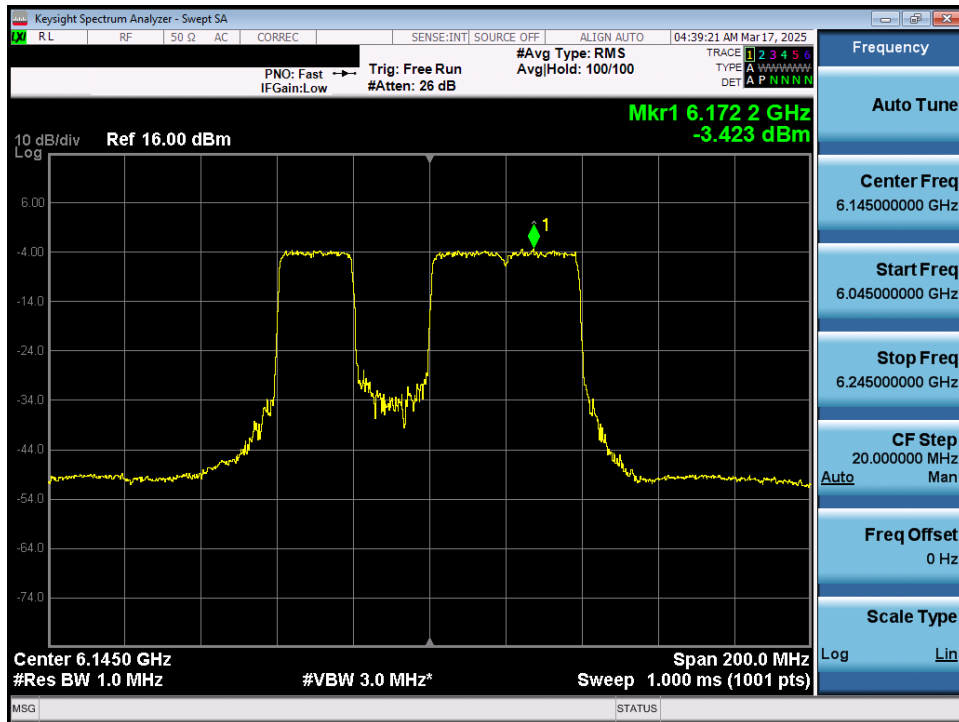


Plot 7-49. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - LPI

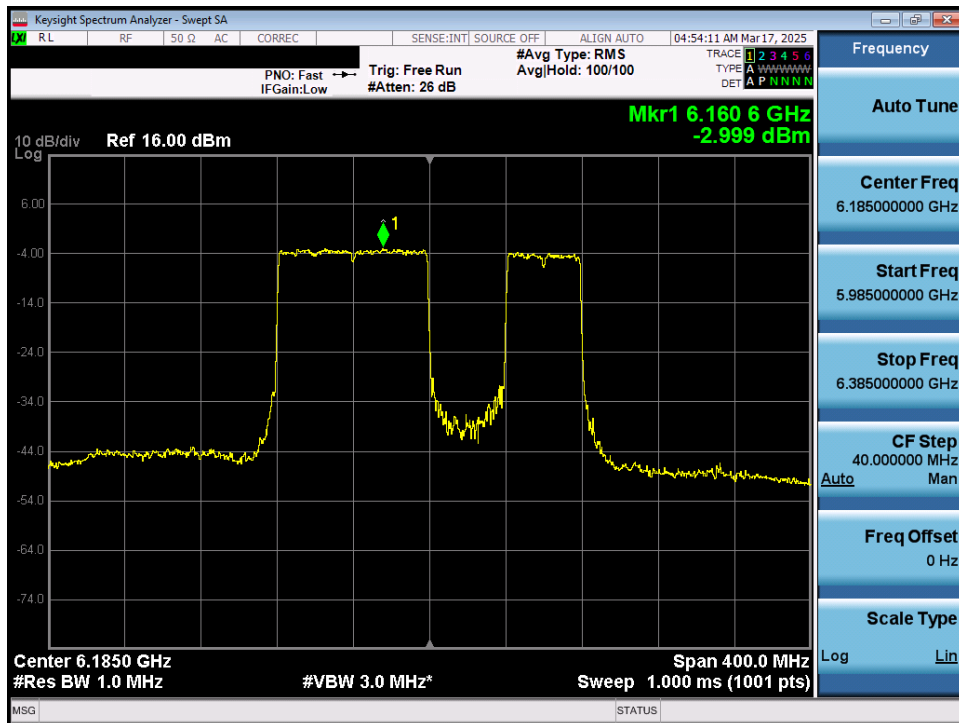


Plot 7-50. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11be (52+26 Tones) (UNII Band 5) – Ch. 45) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 81 of 158                    |

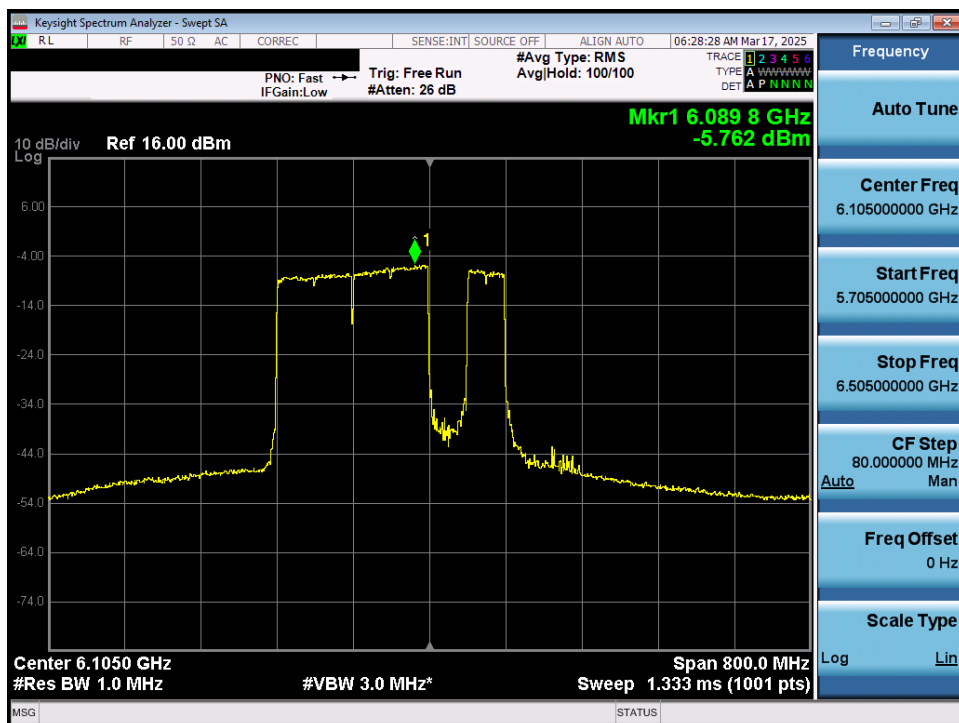


Plot 7-51. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11be (484+242 Tones) (UNII Band 5) – Ch. 39) LPI/SP



Plot 7-52. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11be (996+484 Tones) (UNII Band 5) – Ch. 47) LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 82 of 158                    |

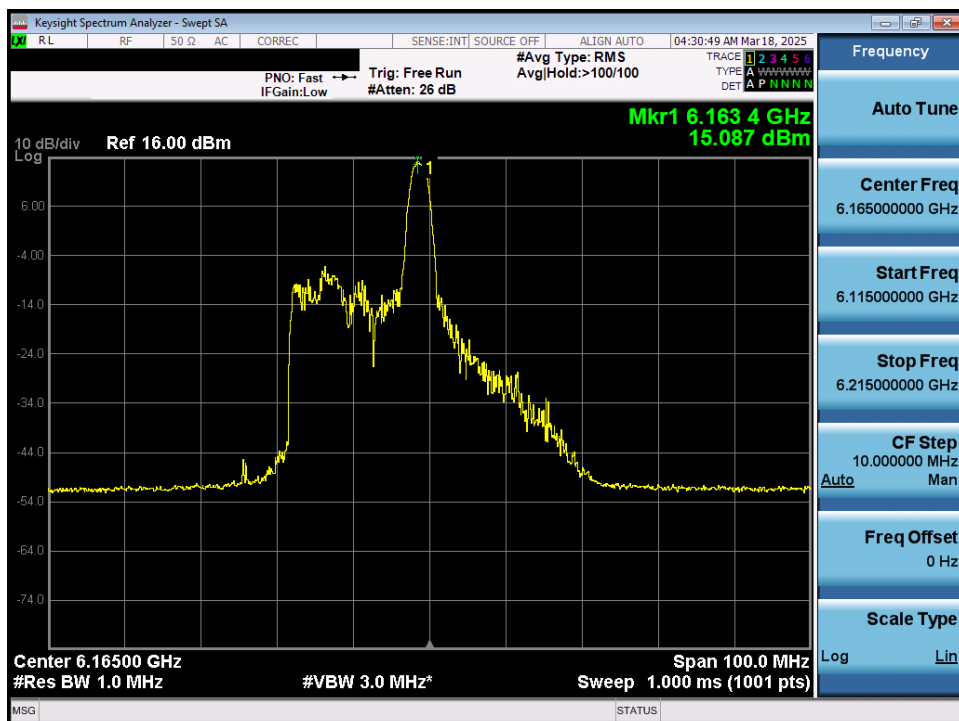


Plot 7-53. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11be (UNII Band 5) – Ch. 31) LPI/SP

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 83 of 158                           |

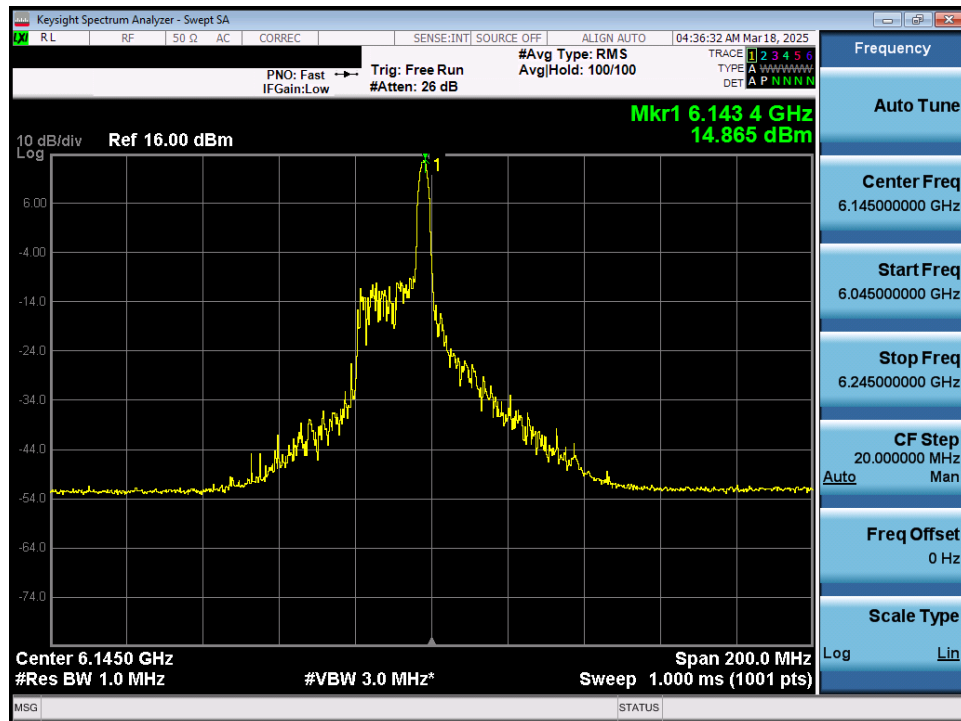


Plot 7-54. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - SP

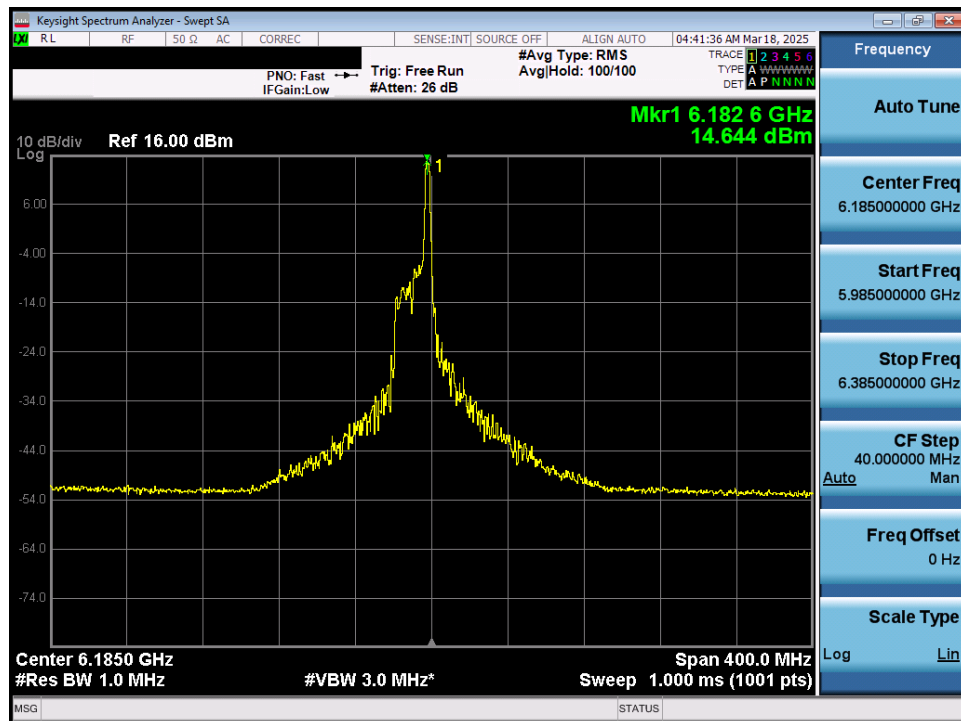


Plot 7-55. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 84 of 158                    |

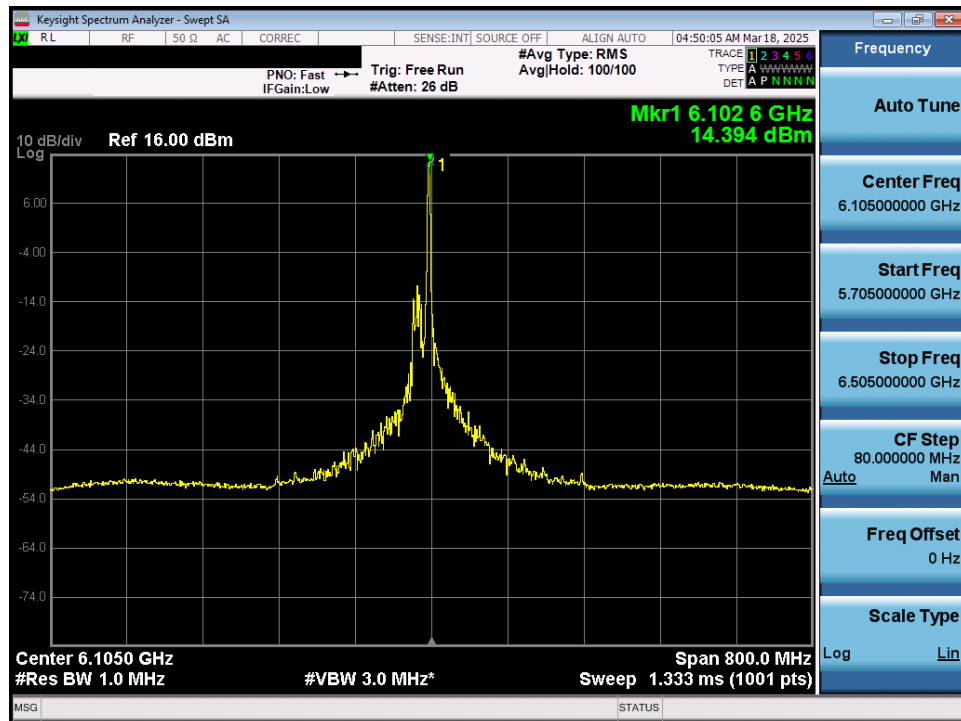


Plot 7-56. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - SP

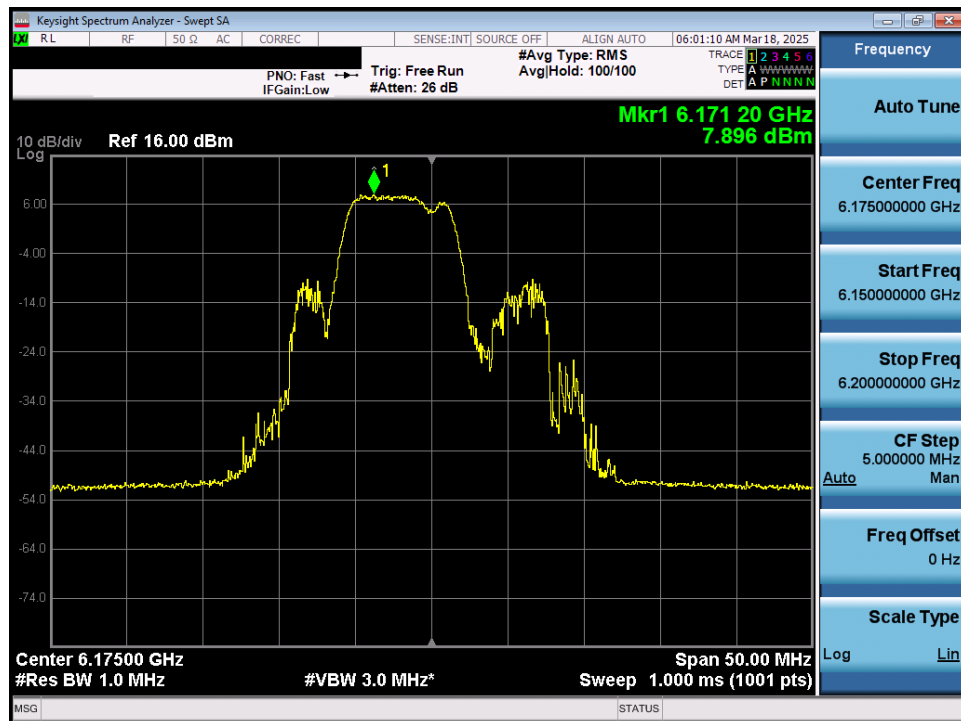


Plot 7-57. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 85 of 158                    |

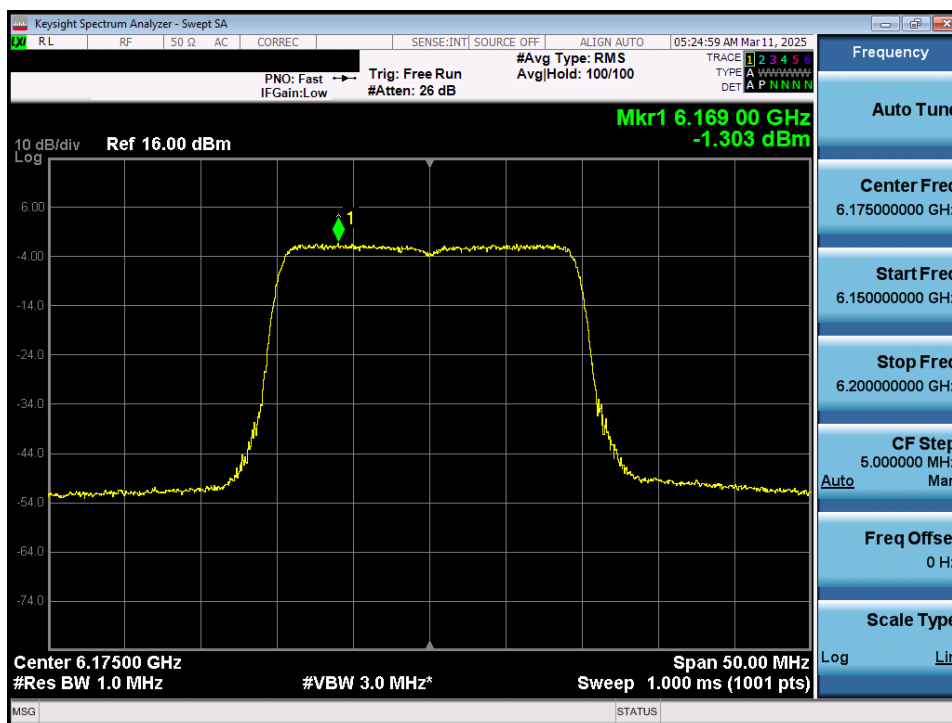


Plot 7-58. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - SP

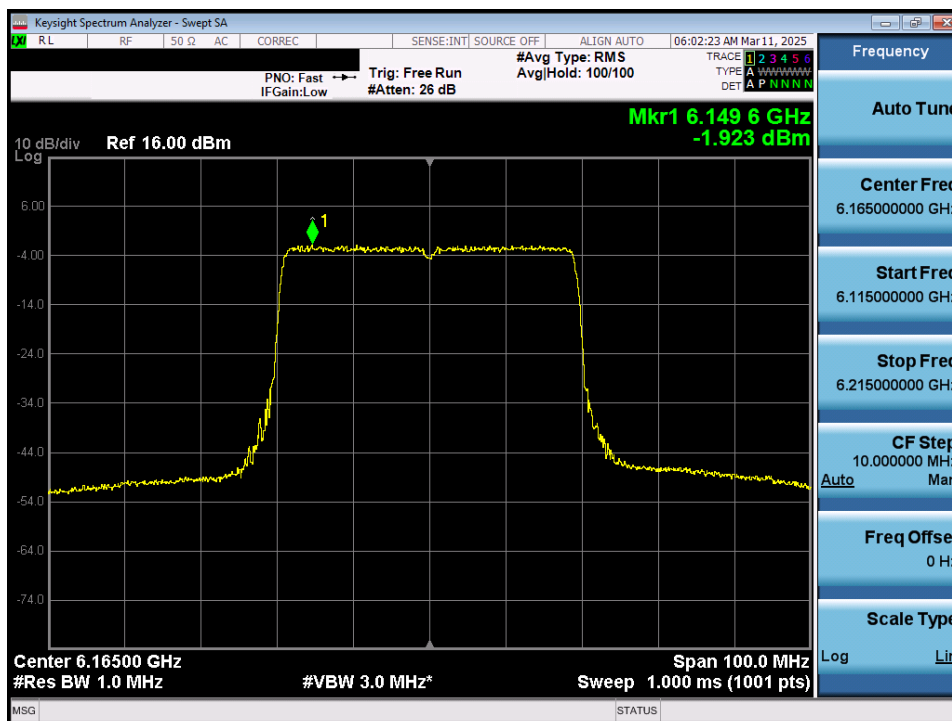


Plot 7-59. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11be (52+26 Tones) (UNII Band 5) – Ch. 45) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 86 of 158                    |

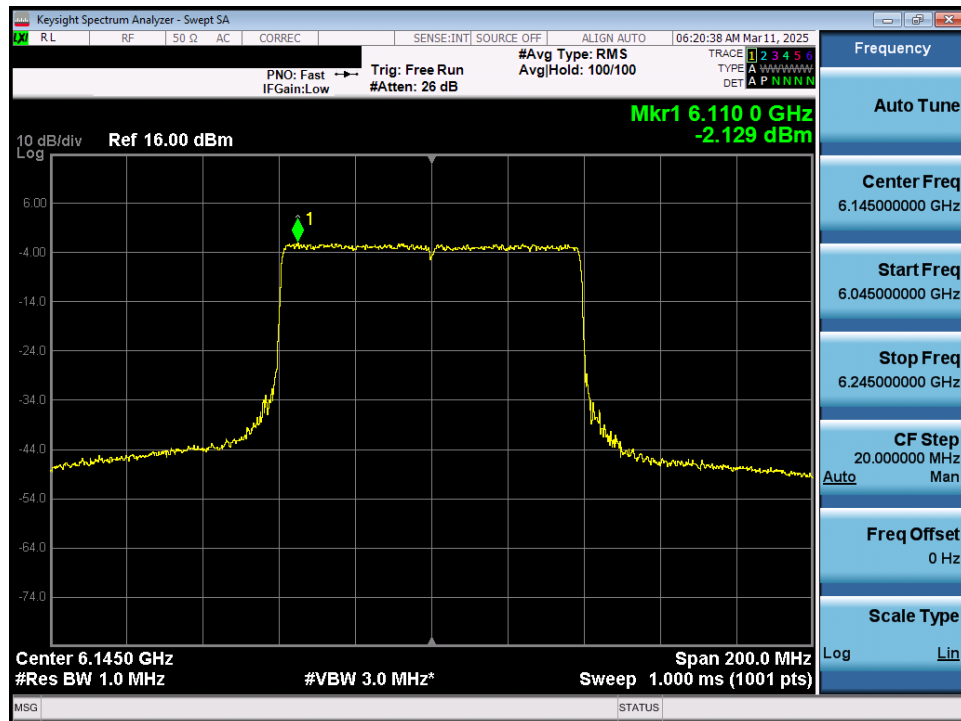


Plot 7-60. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - LPI

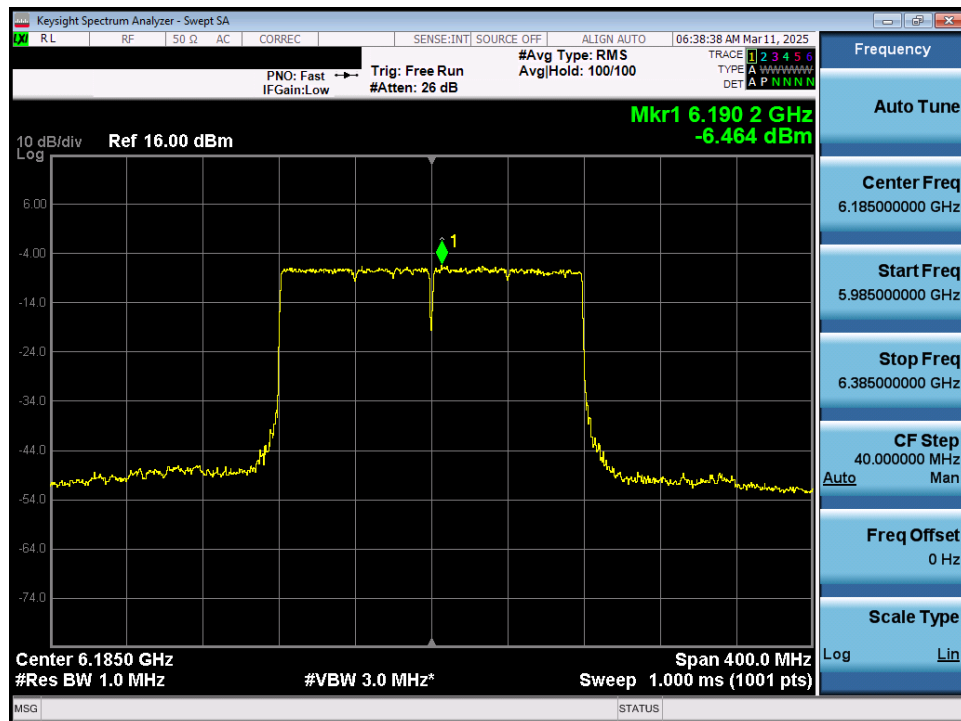


Plot 7-61. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 87 of 158                    |

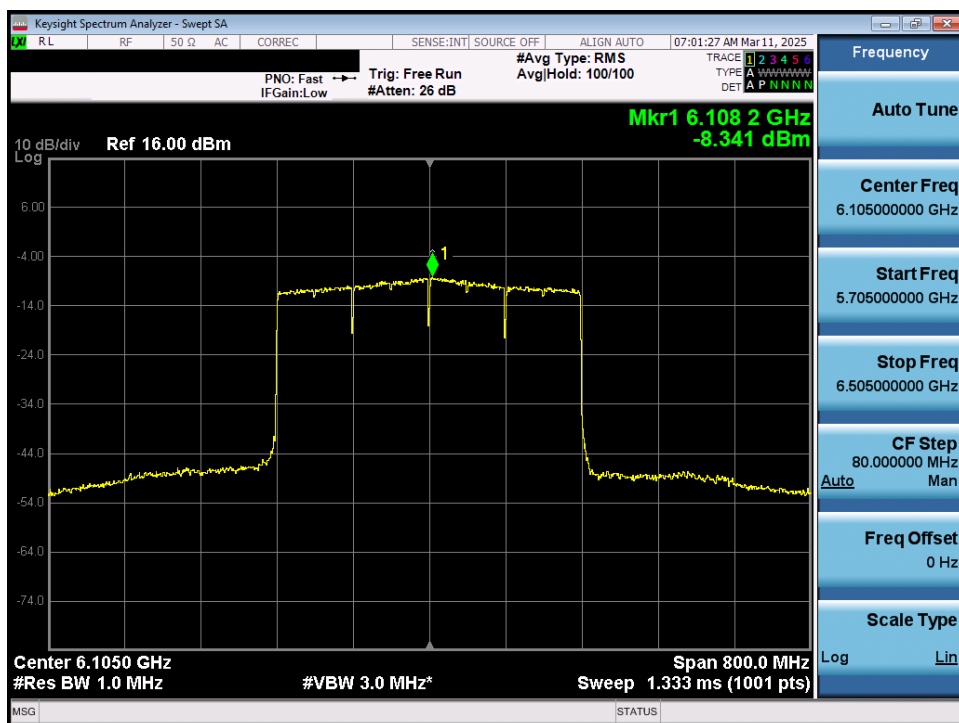


Plot 7-62. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 39) - LPI/SP



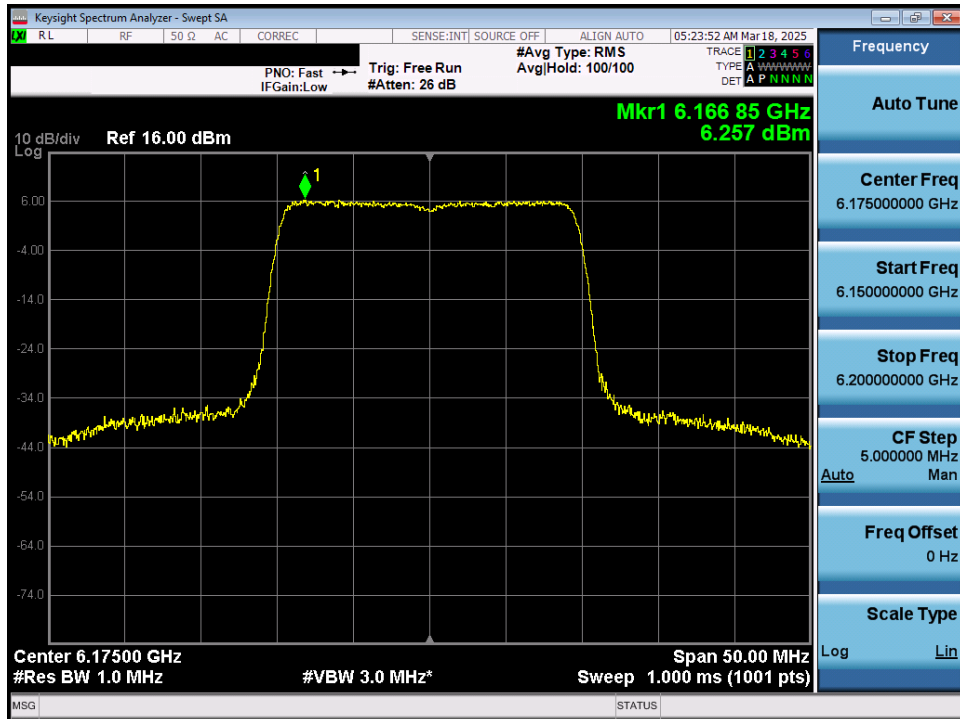
Plot 7-63. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 47) - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 88 of 158                    |

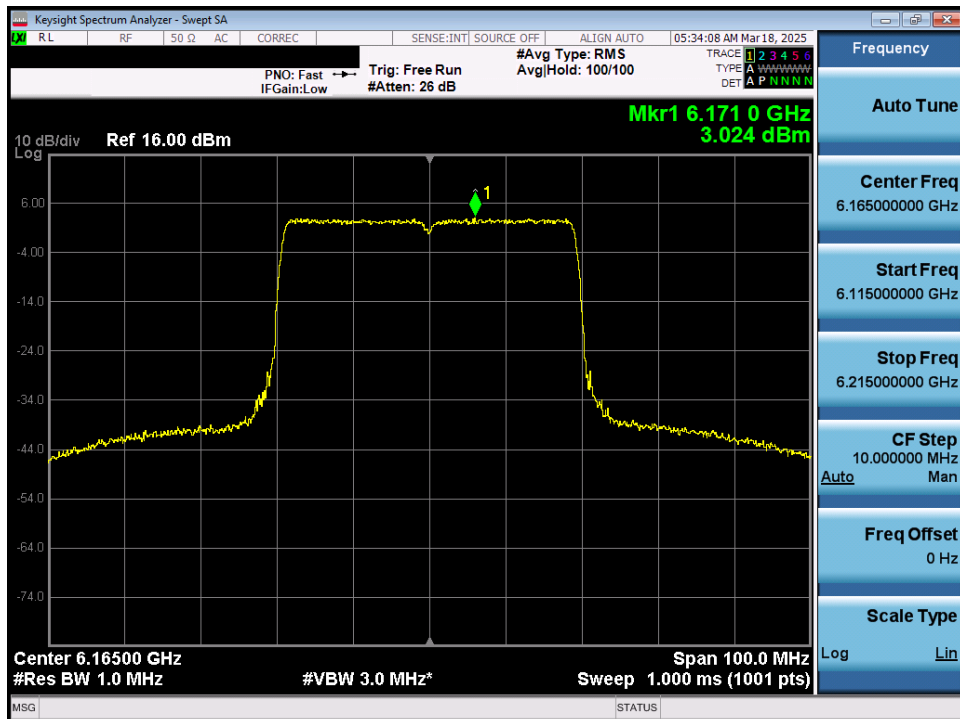


Plot 7-64. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 31) - LPI/SP

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 89 of 158                           |



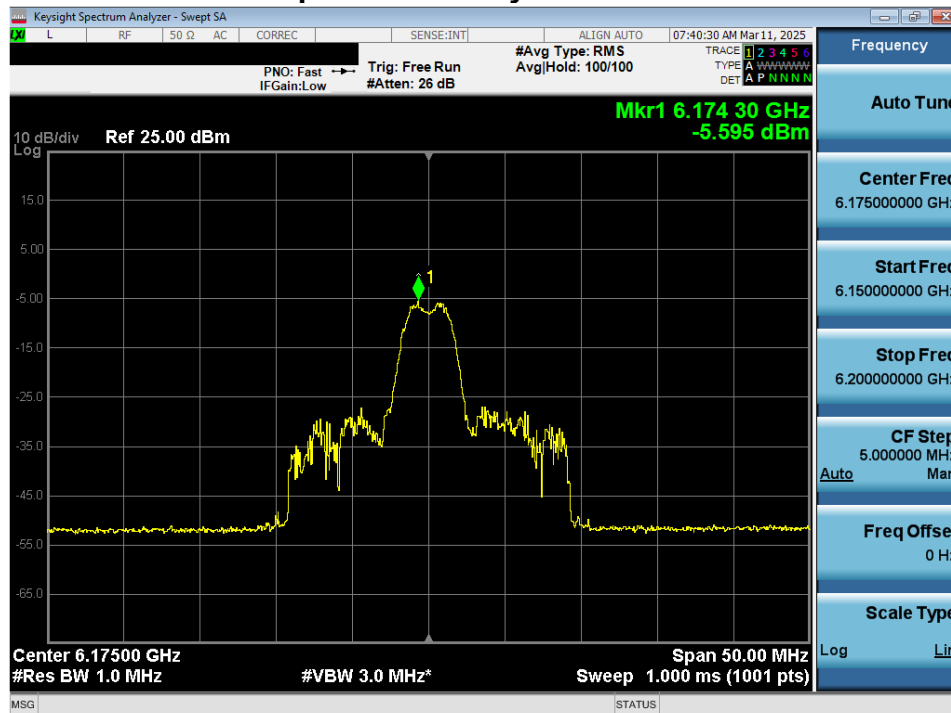
Plot 7-65. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - SP



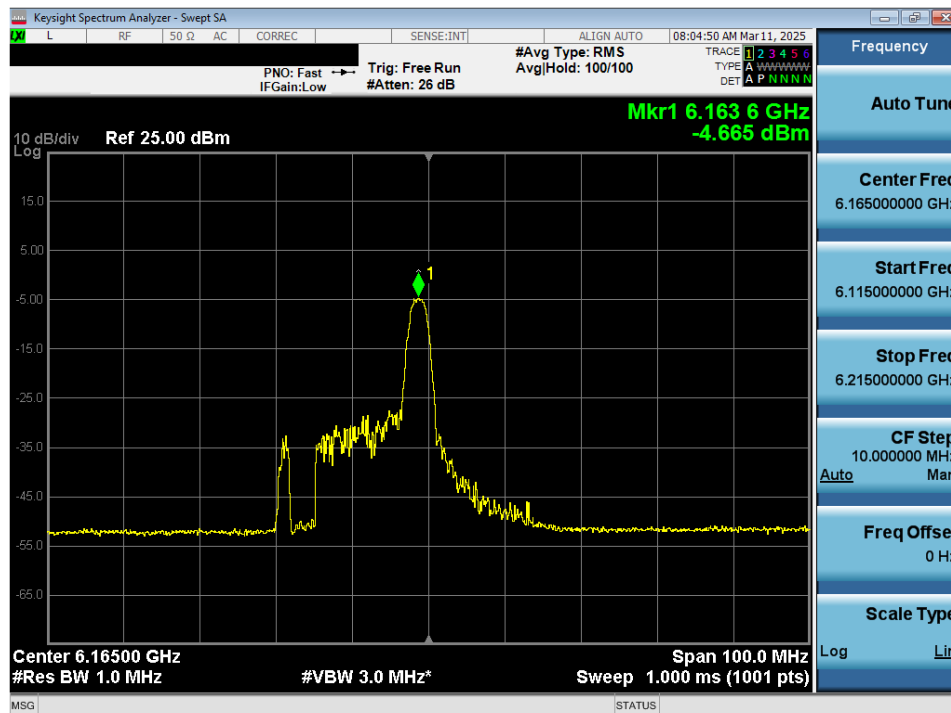
Plot 7-66. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - SP

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 90 of 158                           |

## 7.4.2 MIMO Antenna-2 Power Spectral Density Measurements

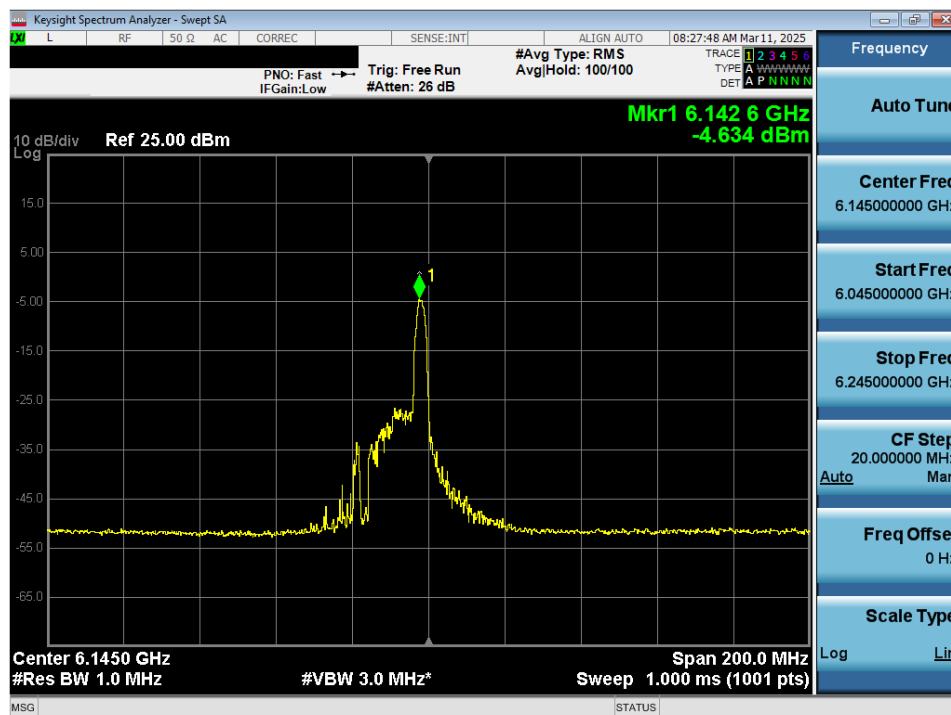


Plot 7-67. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - LPI

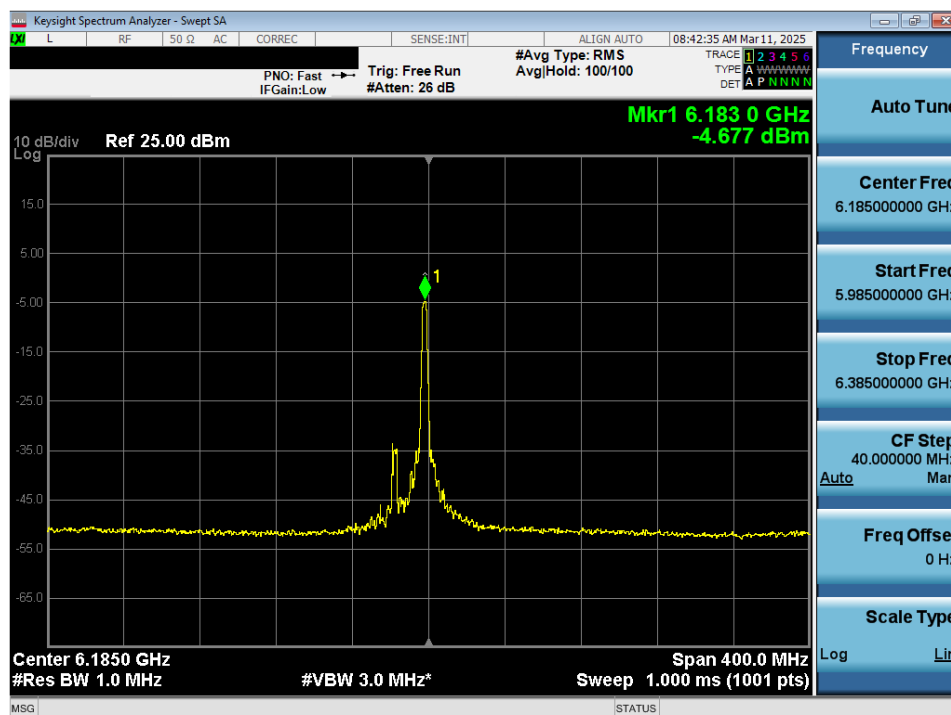


Plot 7-68. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 91 of 158                    |

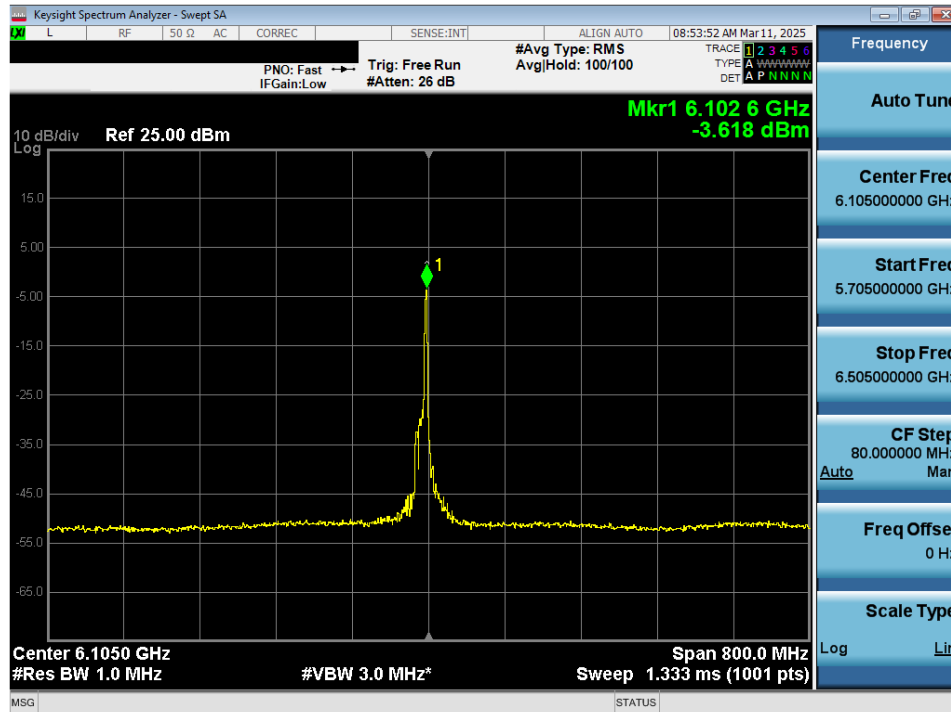


Plot 7-69. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - LPI

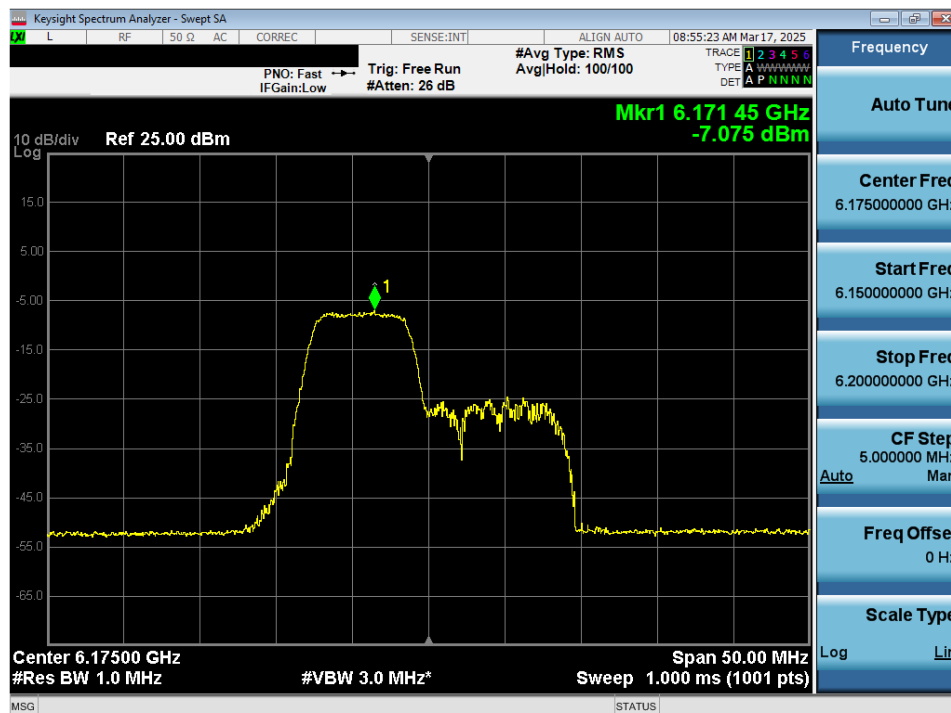


Plot 7-70. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 92 of 158                    |

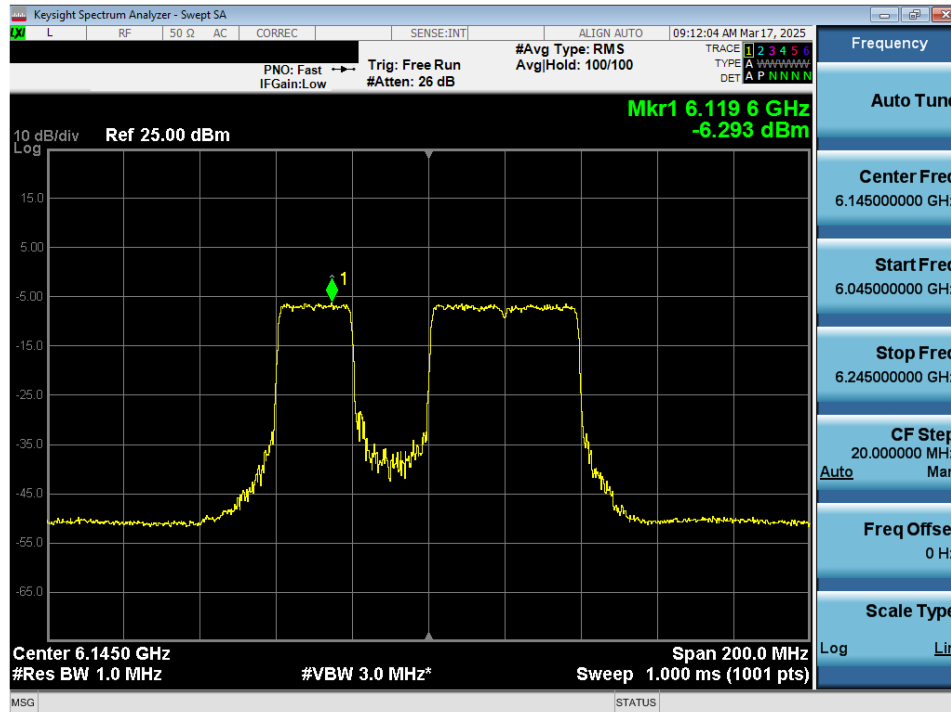


Plot 7-71. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - LPI

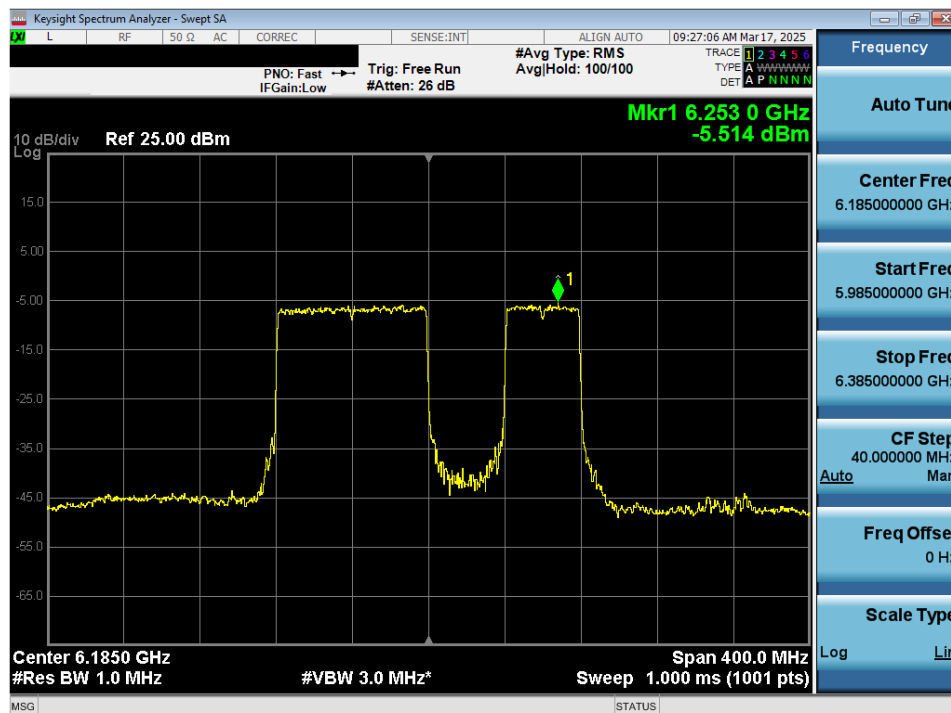


Plot 7-72. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11be (52+26 Tones) (UNII Band 5) – Ch. 45) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 93 of 158                    |

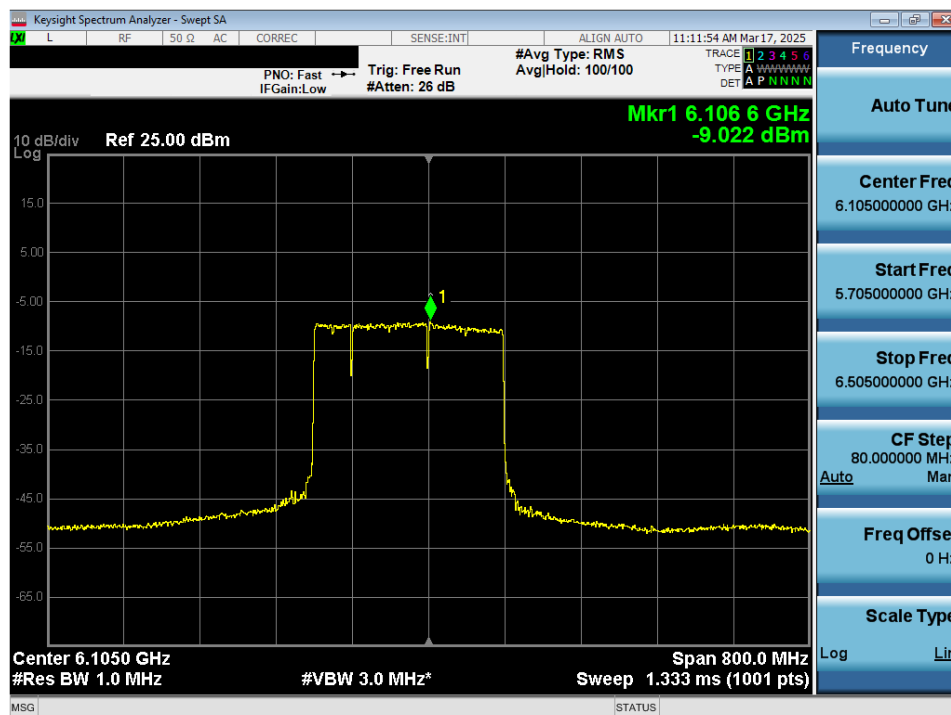


Plot 7-73. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11be (484+242 Tones) (UNII Band 5) – Ch. 39) LPI/SP



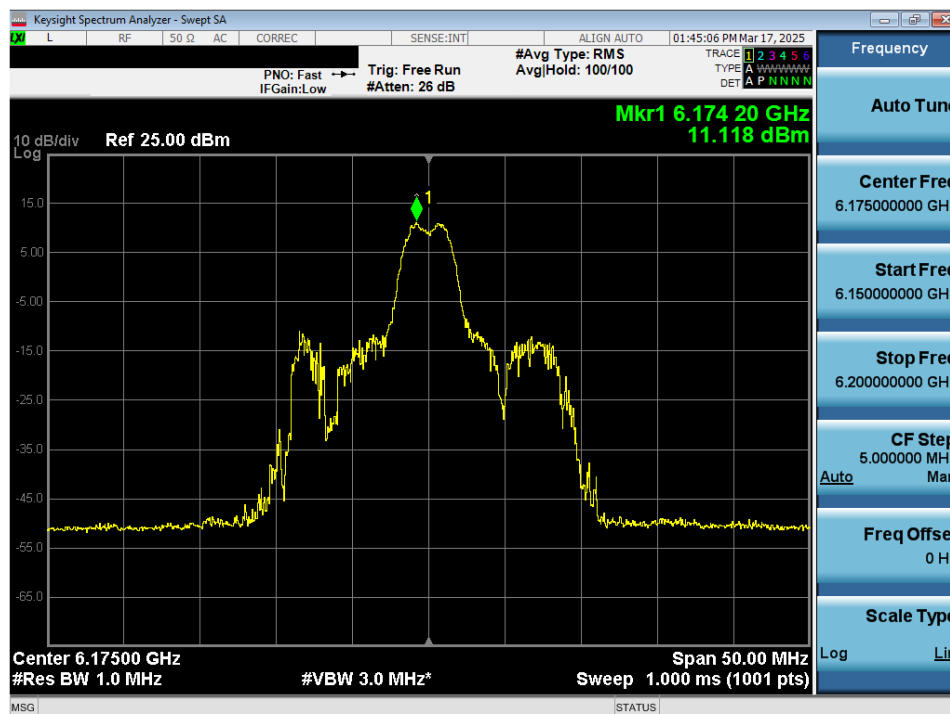
Plot 7-74. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11be (996+484 Tones) (UNII Band 5) – Ch. 47) LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 94 of 158                    |

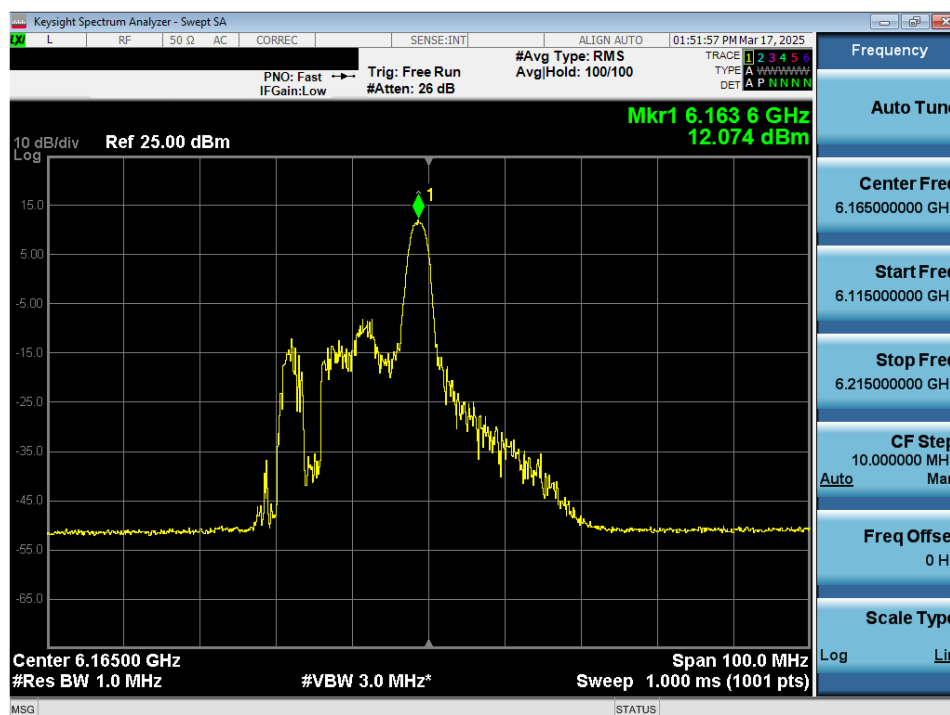


Plot 7-75. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11be (UNII Band 5) – Ch. 31) LPI/SP

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 95 of 158                           |

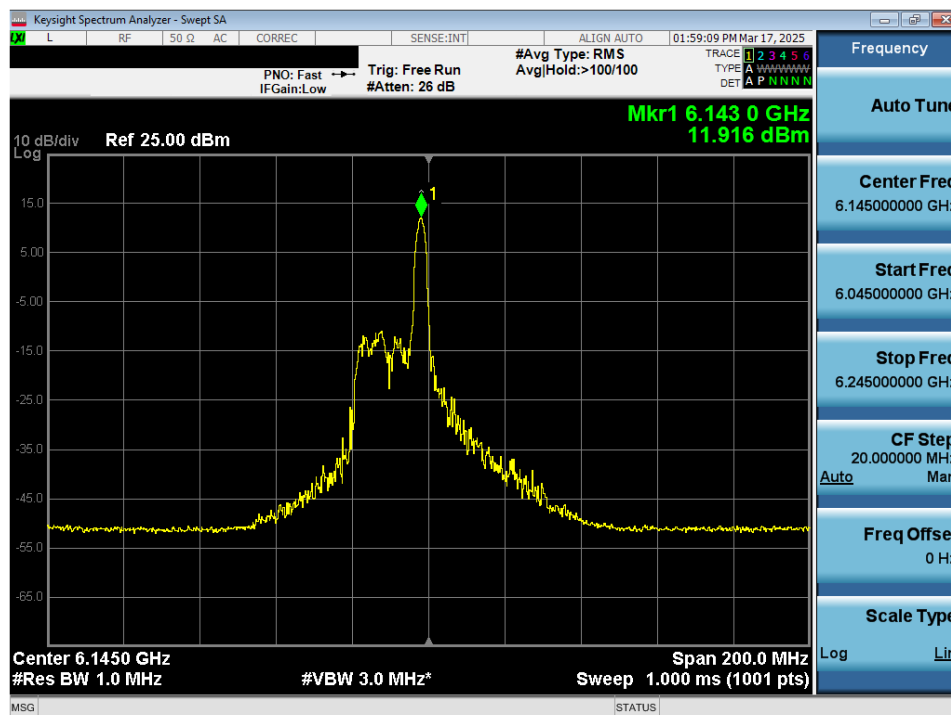


Plot 7-76. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 45) - SP

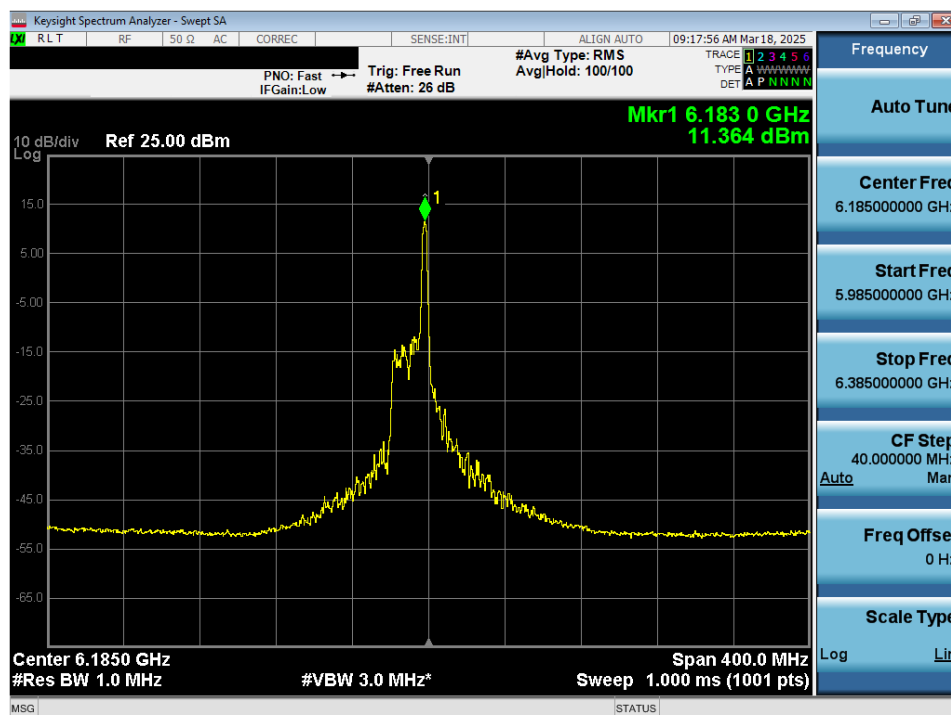


Plot 7-77. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 96 of 158                    |

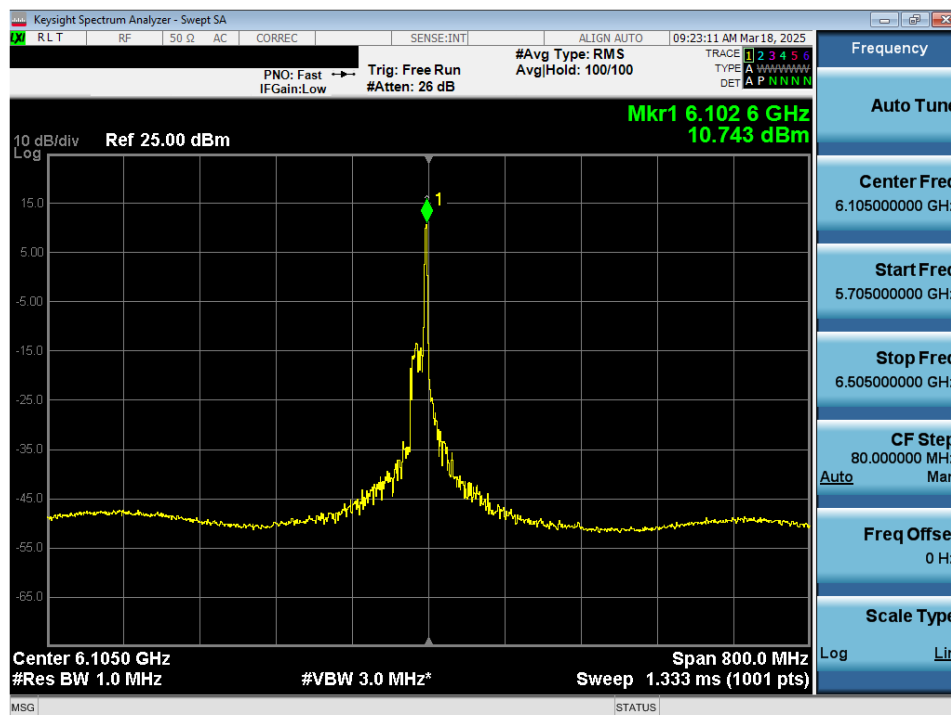


Plot 7-78. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - SP

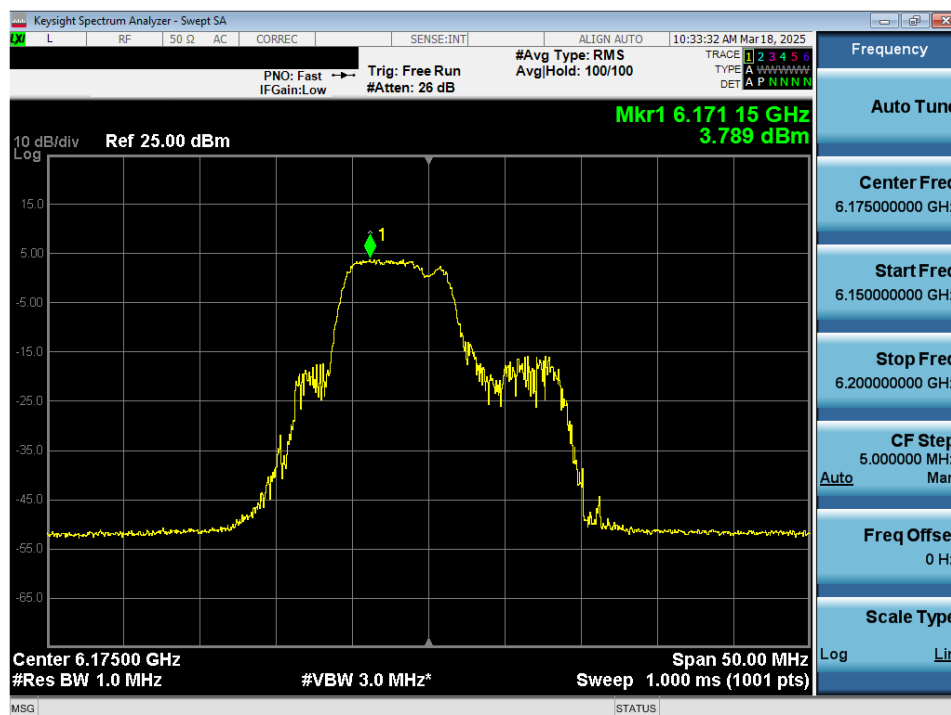


Plot 7-79. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 97 of 158                    |

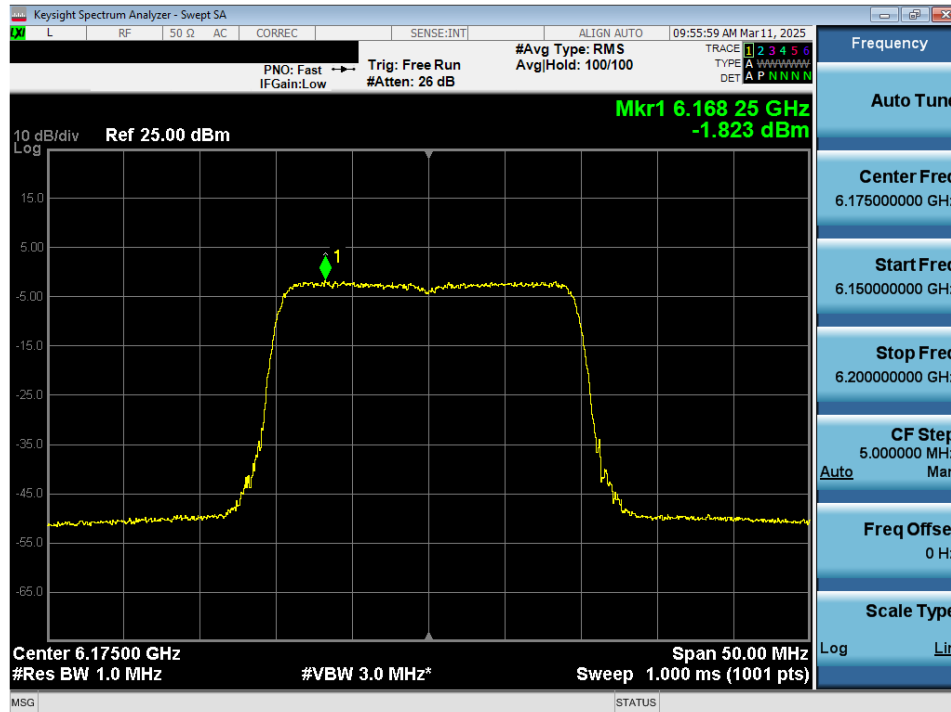


Plot 7-80. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - SP

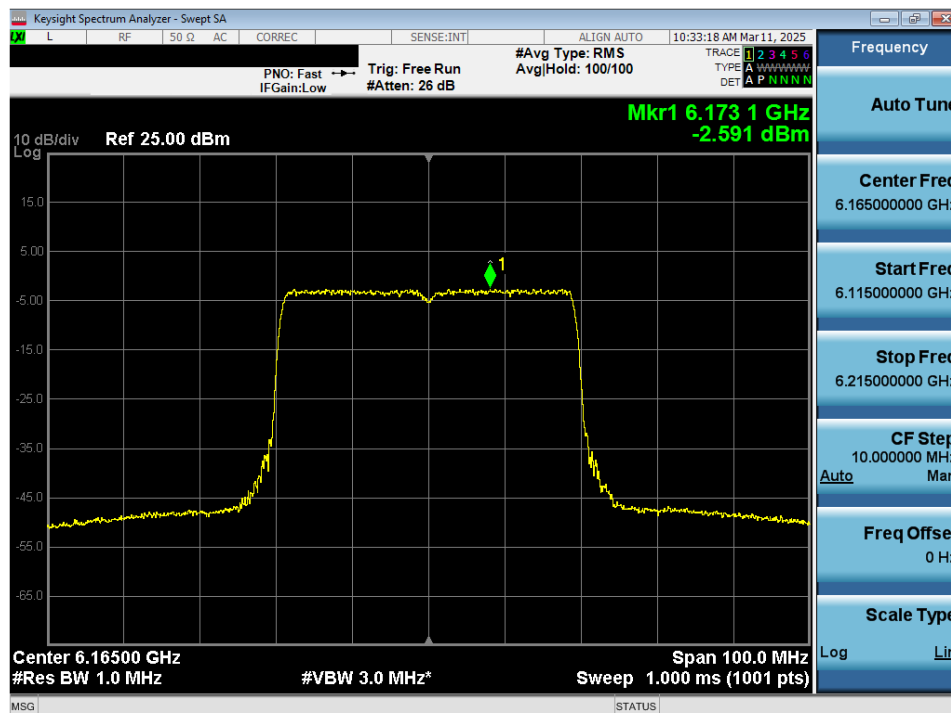


Plot 7-81. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11be (52+26 Tones) (UNII Band 5) – Ch. 45) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 98 of 158                    |

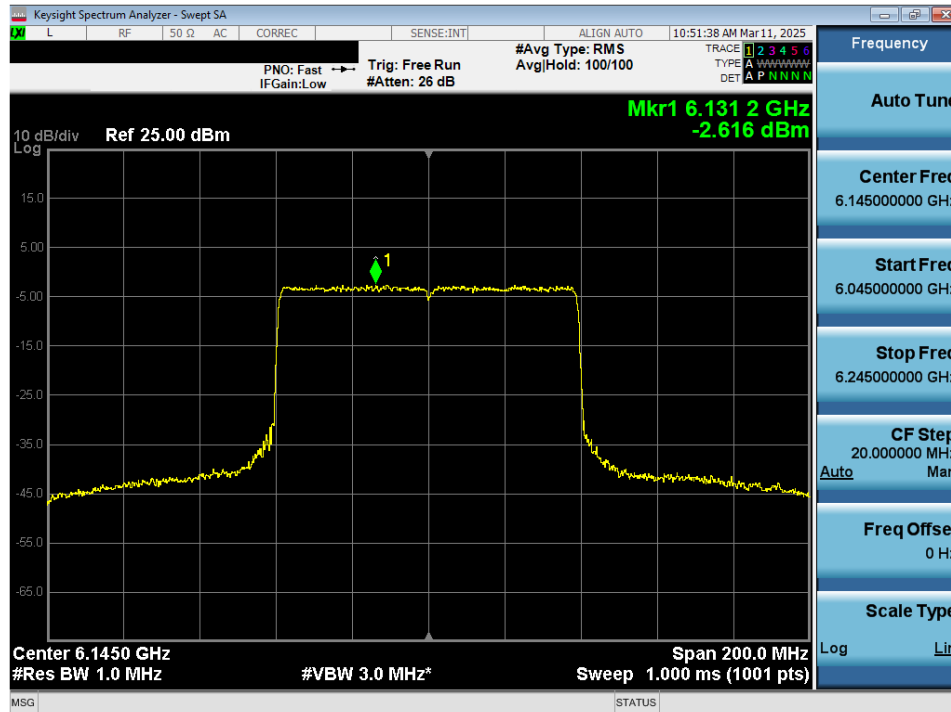


Plot 7-82. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - LPI

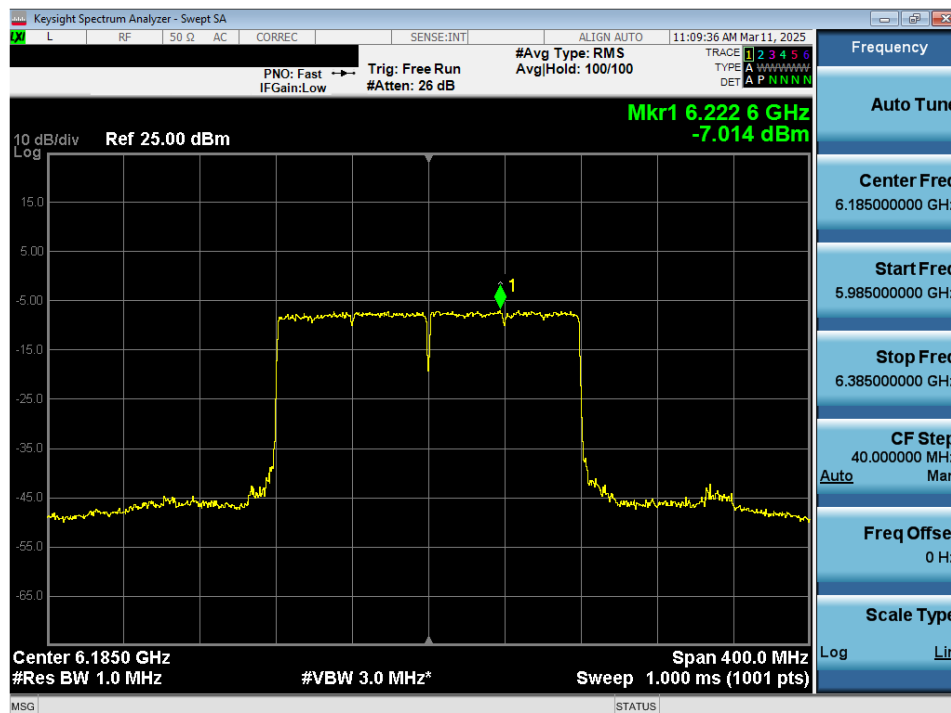


Plot 7-83. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 99 of 158                    |

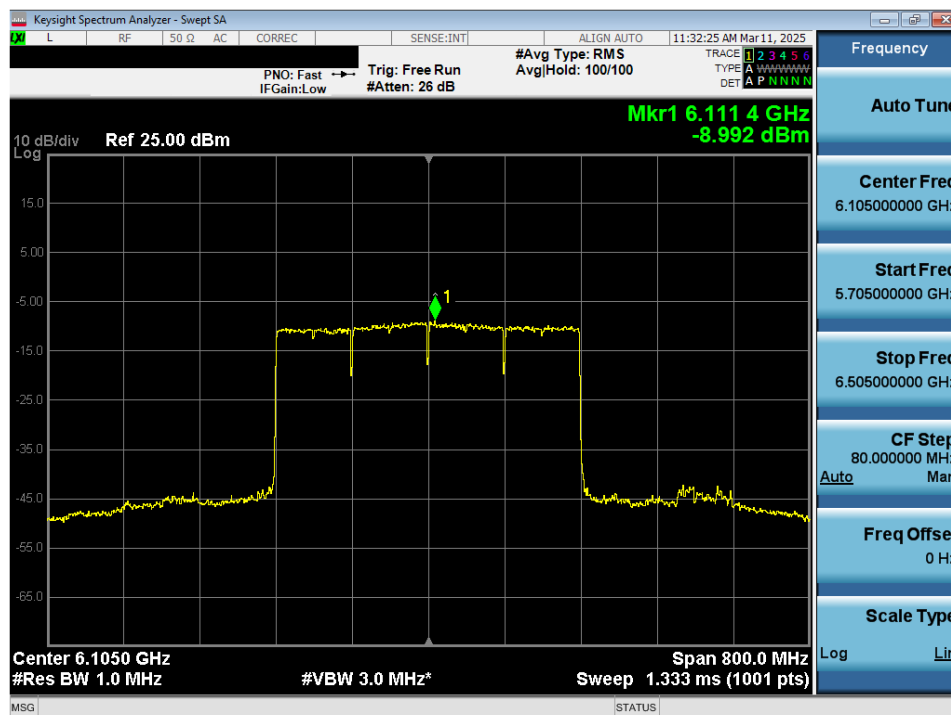


Plot 7-84. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 39) - LPI/SP



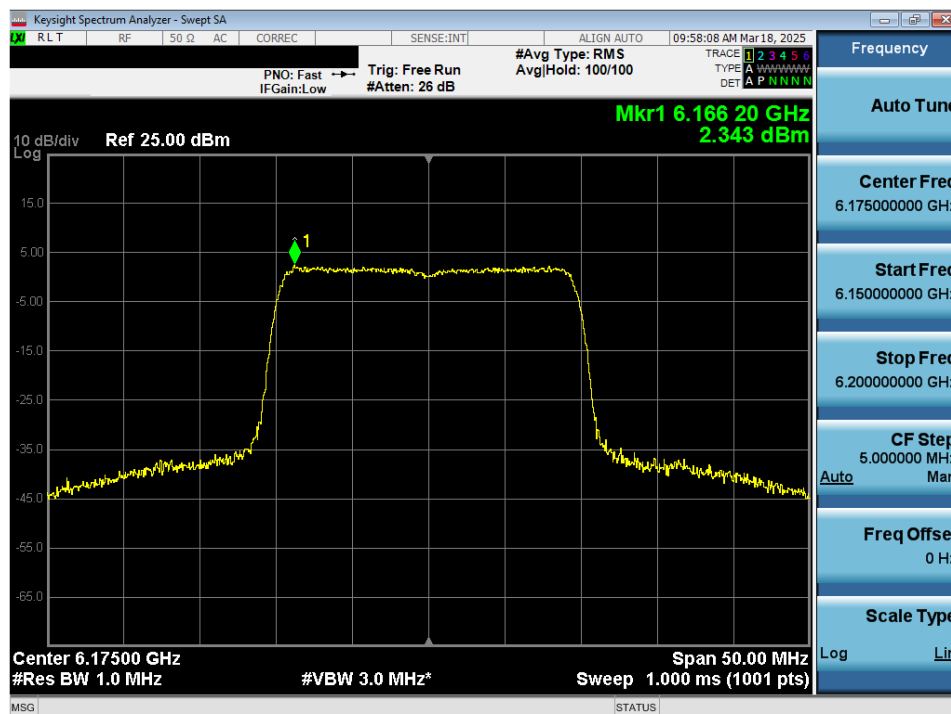
Plot 7-85. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 47) - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 100 of 158                   |

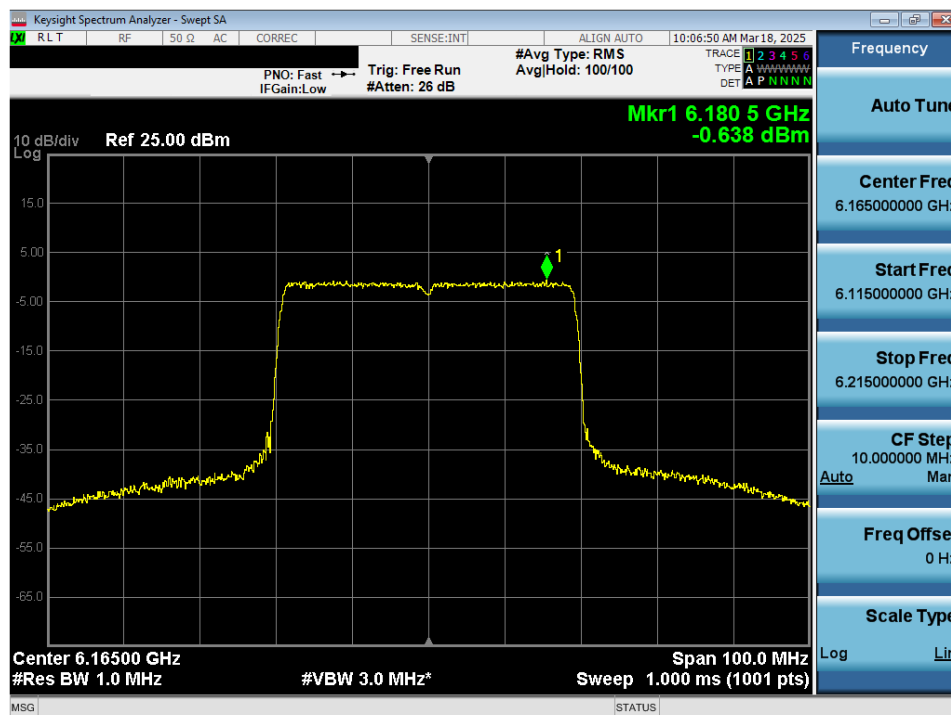


Plot 7-86. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 31) - LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 101 of 158                   |



Plot 7-87. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 45) - SP



Plot 7-88. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 102 of 158                   |

**Note:**

Per ANSI C63.10-2013 Section 14.3.2.2 the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi}$$

**Sample MIMO Calculation:**

At 5935MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -3.96 dBm for Antenna-1 and -5.51 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(-3.96 \text{ dBm} + -5.51 \text{ dBm}) = (0.402 \text{ mW} + 0.281 \text{ mW}) = 0.683 \text{ mW} = -1.66 \text{ dBm}$$

**Sample e.i.r.p Power Spectral Density Calculation:**

At 5935 MHz in 802.11ax (20MHz BW) mode, the average MIMO power density was calculated to be -1.66 dBm with directional gain of -3.07 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$-1.66 \text{ dBm} + -3.07 \text{ dBi} = -4.72 \text{ dBm}$$

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 103 of 158                          |

## 7.5 In-Band Emissions

### Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies.

**For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.**

### Test Procedure Used

KDB 987594 D02 v03

### Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
  - a) Set the span to encompass the entire 26 dB EBW of the signal.
  - b) Set RBW = same RBW used for 26 dB EBW measurement.
  - c) Set VBW  $\geq 3 \times$  RBW
  - d) Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
  - e) Sweep time = auto.
  - f) Detector = RMS (i.e., power averaging)
  - g) Trace average at least 100 traces in power averaging (rms) mode.
  - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
  - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
  - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
  - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 104 of 158                          |

**Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-4. Test Instrument & Measurement Setup**

**Test Notes**

None.

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 105 of 158                          |

|          | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>In-Band<br>Emission | Antenna-2<br>In-Band<br>Emission |
|----------|--------------------|---------|----------------|----------------------------------|----------------------------------|
| Band 5   | 5935               | 2       | be (20MHz)     | PASS                             | PASS                             |
|          | 6175               | 45      | be (20MHz)     | PASS                             | PASS                             |
|          | 6415               | 93      | be (20MHz)     | PASS                             | PASS                             |
|          | 5965               | 3       | be (40MHz)     | PASS                             | PASS                             |
|          | 6165               | 43      | be (40MHz)     | PASS                             | PASS                             |
|          | 6405               | 91      | be (40MHz)     | PASS                             | PASS                             |
|          | 5985               | 7       | be (80MHz)     | PASS                             | PASS                             |
|          | 6145               | 39      | be (80MHz)     | PASS                             | PASS                             |
|          | 6385               | 87      | be (80MHz)     | PASS                             | PASS                             |
|          | 6025               | 15      | be (160MHz)    | PASS                             | PASS                             |
|          | 6185               | 47      | be (160MHz)    | PASS                             | PASS                             |
|          | 6345               | 79      | be (160MHz)    | PASS                             | PASS                             |
|          | 6105               | 31      | be (320MHz)    | PASS                             | PASS                             |
|          | 6265               | 63      | be (320MHz)    | PASS                             | PASS                             |
| Band 6   | 6435               | 97      | be (20MHz)     | PASS                             | PASS                             |
|          | 6475               | 105     | be (20MHz)     | PASS                             | PASS                             |
|          | 6515               | 113     | be (20MHz)     | PASS                             | PASS                             |
|          | 6445               | 99      | be (40MHz)     | PASS                             | PASS                             |
|          | 6485               | 107     | be (40MHz)     | PASS                             | PASS                             |
|          | 6525               | 115     | be (40MHz)     | PASS                             | PASS                             |
|          | 6465               | 103     | be (80MHz)     | PASS                             | PASS                             |
| Band 7   | 6505               | 111     | be (160MHz)    | PASS                             | PASS                             |
|          | 6425               | 95      | be (320MHz)    | PASS                             | PASS                             |
|          | 6695               | 117     | be (20MHz)     | PASS                             | PASS                             |
|          | 6695               | 149     | be (20MHz)     | PASS                             | PASS                             |
|          | 6875               | 185     | be (20MHz)     | PASS                             | PASS                             |
|          | 6565               | 123     | be (40MHz)     | PASS                             | PASS                             |
|          | 6725               | 155     | be (40MHz)     | PASS                             | PASS                             |
|          | 6845               | 179     | be (40MHz)     | PASS                             | PASS                             |
|          | 6545               | 119     | be (80MHz)     | PASS                             | PASS                             |
|          | 6705               | 151     | be (80MHz)     | PASS                             | PASS                             |
|          | 6865               | 183     | be (80MHz)     | PASS                             | PASS                             |
|          | 6665               | 143     | be (160MHz)    | PASS                             | PASS                             |
|          | 6825               | 175     | be (160MHz)    | PASS                             | PASS                             |
|          | 6585               | 127     | be (320MHz)    | PASS                             | PASS                             |
| Band 6/7 | 6745               | 159     | be (320MHz)    | PASS                             | PASS                             |
| Band 8   | 6895               | 189     | be (20MHz)     | PASS                             | PASS                             |
|          | 6995               | 209     | be (20MHz)     | PASS                             | PASS                             |
|          | 7115               | 233     | be (20MHz)     | PASS                             | PASS                             |
|          | 6885               | 187     | be (40MHz)     | PASS                             | PASS                             |
|          | 6965               | 211     | be (40MHz)     | PASS                             | PASS                             |
|          | 7085               | 227     | be (40MHz)     | PASS                             | PASS                             |
|          | 6945               | 199     | be (80MHz)     | PASS                             | PASS                             |
|          | 7025               | 215     | be (80MHz)     | PASS                             | PASS                             |
|          | 6985               | 207     | be (160MHz)    | PASS                             | PASS                             |
| Band 7/8 | 6985               | 191     | be (320MHz)    | PASS                             | PASS                             |

**Table 7-83. In Band Emissions Results Measurements (26 Tones) – LPI**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 106 of 158                          |

|            | Frequency [MHz] | Channel | 802.11 MODE | Antenna-1 In-Band Emission | Antenna-2 In-Band Emission |
|------------|-----------------|---------|-------------|----------------------------|----------------------------|
| Band 5     | 5935            | 2       | be (20MHz)  | PASS                       | PASS                       |
|            | 6175            | 45      | be (20MHz)  | PASS                       | PASS                       |
|            | 6415            | 93      | be (20MHz)  | PASS                       | PASS                       |
|            | 5965            | 3       | be (40MHz)  | PASS                       | PASS                       |
|            | 6165            | 43      | be (40MHz)  | PASS                       | PASS                       |
|            | 6405            | 91      | be (40MHz)  | PASS                       | PASS                       |
|            | 5985            | 7       | be (80MHz)  | PASS                       | PASS                       |
|            | 6145            | 39      | be (80MHz)  | PASS                       | PASS                       |
|            | 6385            | 87      | be (80MHz)  | PASS                       | PASS                       |
|            | 6025            | 15      | be (160MHz) | PASS                       | PASS                       |
|            | 6185            | 47      | be (160MHz) | PASS                       | PASS                       |
|            | 6345            | 79      | be (160MHz) | PASS                       | PASS                       |
|            | 6105            | 31      | be (320MHz) | PASS                       | PASS                       |
|            | 6265            | 63      | be (320MHz) | PASS                       | PASS                       |
| Band 6     | 6435            | 97      | be (20MHz)  | PASS                       | PASS                       |
|            | 6475            | 105     | be (20MHz)  | PASS                       | PASS                       |
|            | 6515            | 113     | be (20MHz)  | PASS                       | PASS                       |
|            | 6445            | 99      | be (40MHz)  | PASS                       | PASS                       |
|            | 6485            | 107     | be (40MHz)  | PASS                       | PASS                       |
|            | 6525            | 115     | be (40MHz)  | PASS                       | PASS                       |
|            | 6465            | 103     | be (80MHz)  | PASS                       | PASS                       |
|            | 6505            | 111     | be (160MHz) | PASS                       | PASS                       |
| Band 5/6/7 | 6425            | 95      | be (320MHz) | PASS                       | PASS                       |
| Band 7     | 6695            | 117     | be (20MHz)  | PASS                       | PASS                       |
|            | 6695            | 149     | be (20MHz)  | PASS                       | PASS                       |
|            | 6875            | 185     | be (20MHz)  | PASS                       | PASS                       |
|            | 6565            | 123     | be (40MHz)  | PASS                       | PASS                       |
|            | 6725            | 155     | be (40MHz)  | PASS                       | PASS                       |
|            | 6845            | 179     | be (40MHz)  | PASS                       | PASS                       |
|            | 6545            | 119     | be (80MHz)  | PASS                       | PASS                       |
|            | 6705            | 151     | be (80MHz)  | PASS                       | PASS                       |
|            | 6865            | 183     | be (80MHz)  | PASS                       | PASS                       |
|            | 6665            | 143     | be (160MHz) | PASS                       | PASS                       |
| Band 6/7   | 6585            | 127     | be (320MHz) | PASS                       | PASS                       |
|            | 6745            | 159     | be (320MHz) | PASS                       | PASS                       |
| Band 8     | 6895            | 189     | be (20MHz)  | PASS                       | PASS                       |
|            | 6995            | 209     | be (20MHz)  | PASS                       | PASS                       |
|            | 7115            | 233     | be (20MHz)  | PASS                       | PASS                       |
|            | 6885            | 187     | be (40MHz)  | PASS                       | PASS                       |
|            | 6965            | 211     | be (40MHz)  | PASS                       | PASS                       |
|            | 7085            | 227     | be (40MHz)  | PASS                       | PASS                       |
|            | 6945            | 199     | be (80MHz)  | PASS                       | PASS                       |
|            | 7025            | 215     | be (80MHz)  | PASS                       | PASS                       |
|            | 6985            | 207     | be (160MHz) | PASS                       | PASS                       |
|            | 6985            | 191     | be (320MHz) | PASS                       | PASS                       |

**Table 7-84. In Band Emissions Results Measurements (Full Tones) – LPI**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 107 of 158                          |

|            | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>In-Band<br>Emission | Antenna-2<br>In-Band<br>Emission |
|------------|--------------------|---------|----------------|----------------------------------|----------------------------------|
| Band 5     | 6175               | 45      | be (20MHz)     | PASS                             | PASS                             |
|            | 6145               | 39      | be (80MHz)     | PASS                             | PASS                             |
|            | 6185               | 47      | be (160MHz)    | PASS                             | PASS                             |
|            | 6105               | 31      | be (320MHz)    | PASS                             | PASS                             |
| Band 6     | 6475               | 105     | be (20MHz)     | PASS                             | PASS                             |
|            | 6465               | 103     | be (80MHz)     | PASS                             | PASS                             |
|            | 6505               | 111     | be (160MHz)    | PASS                             | PASS                             |
| Band 5/6/7 | 6425               | 95      | be (320MHz)    | PASS                             | PASS                             |
| Band 7     | 6695               | 149     | be (20MHz)     | PASS                             | PASS                             |
|            | 6725               | 155     | be (40MHz)     | PASS                             | PASS                             |
|            | 6705               | 151     | be (80MHz)     | PASS                             | PASS                             |
|            | 6825               | 175     | be (160MHz)    | PASS                             | PASS                             |
| Band 6/7   | 6585               | 127     | be (320MHz)    | PASS                             | PASS                             |
| Band 7/8   | 6745               | 159     | be (320MHz)    | PASS                             | PASS                             |
| Band 8     | 6995               | 209     | be (20MHz)     | PASS                             | PASS                             |
|            | 6965               | 211     | be (40MHz)     | PASS                             | PASS                             |
|            | 6945               | 199     | be (80MHz)     | PASS                             | PASS                             |
|            | 6985               | 207     | be (160MHz)    | PASS                             | PASS                             |
| Band 7/8   | 6905               | 191     | be (320MHz)    | PASS                             | PASS                             |

**Table 7-85. In Band Emissions Results Measurements (MRU) – LPI**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 108 of 158                          |

|          | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>In-Band<br>Emission | Antenna-2<br>In-Band<br>Emission |
|----------|--------------------|---------|----------------|----------------------------------|----------------------------------|
| Band 5   | 5935               | 2       | be (20MHz)     | PASS                             | PASS                             |
|          | 6175               | 45      | be (20MHz)     | PASS                             | PASS                             |
|          | 6415               | 93      | be (20MHz)     | PASS                             | PASS                             |
|          | 5965               | 3       | be (40MHz)     | PASS                             | PASS                             |
|          | 6165               | 43      | be (40MHz)     | PASS                             | PASS                             |
|          | 6405               | 91      | be (40MHz)     | PASS                             | PASS                             |
|          | 5985               | 7       | be (80MHz)     | PASS                             | PASS                             |
|          | 6145               | 39      | be (80MHz)     | PASS                             | PASS                             |
|          | 6385               | 87      | be (80MHz)     | PASS                             | PASS                             |
|          | 6025               | 15      | be (160MHz)    | PASS                             | PASS                             |
|          | 6185               | 47      | be (160MHz)    | PASS                             | PASS                             |
|          | 6345               | 79      | be (160MHz)    | PASS                             | PASS                             |
|          | 6105               | 31      | be (320MHz)    | PASS                             | PASS                             |
|          | 6265               | 63      | be (320MHz)    | PASS                             | PASS                             |
| Band 7   | 6695               | 117     | be (20MHz)     | PASS                             | PASS                             |
|          | 6695               | 149     | be (20MHz)     | PASS                             | PASS                             |
|          | 6875               | 185     | be (20MHz)     | PASS                             | PASS                             |
|          | 6565               | 123     | be (40MHz)     | PASS                             | PASS                             |
|          | 6725               | 155     | be (40MHz)     | PASS                             | PASS                             |
|          | 6845               | 179     | be (40MHz)     | PASS                             | PASS                             |
|          | 6545               | 119     | be (80MHz)     | PASS                             | PASS                             |
|          | 6705               | 151     | be (80MHz)     | PASS                             | PASS                             |
|          | 6865               | 183     | be (80MHz)     | PASS                             | PASS                             |
|          | 6665               | 143     | be (160MHz)    | PASS                             | PASS                             |
|          | 6825               | 175     | be (160MHz)    | PASS                             | PASS                             |
| Band 7/8 | 6745               | 159     | be (320MHz)    | PASS                             | PASS                             |

**Table 7-86. In Band Emissions Results Measurements (26 Tones) – SP**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 109 of 158                          |

|          | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>In-Band<br>Emission | Antenna-2<br>In-Band<br>Emission |
|----------|--------------------|---------|----------------|----------------------------------|----------------------------------|
| Band 5   | 5935               | 2       | be (20MHz)     | PASS                             | PASS                             |
|          | 6175               | 45      | be (20MHz)     | PASS                             | PASS                             |
|          | 6415               | 93      | be (20MHz)     | PASS                             | PASS                             |
|          | 5965               | 3       | be (40MHz)     | PASS                             | PASS                             |
|          | 6165               | 43      | be (40MHz)     | PASS                             | PASS                             |
|          | 6405               | 91      | be (40MHz)     | PASS                             | PASS                             |
|          | 5985               | 7       | be (80MHz)     | PASS                             | PASS                             |
|          | 6145               | 39      | be (80MHz)     | PASS                             | PASS                             |
|          | 6385               | 87      | be (80MHz)     | PASS                             | PASS                             |
|          | 6025               | 15      | be (160MHz)    | PASS                             | PASS                             |
|          | 6185               | 47      | be (160MHz)    | PASS                             | PASS                             |
|          | 6345               | 79      | be (160MHz)    | PASS                             | PASS                             |
|          | 6105               | 31      | be (320MHz)    | PASS                             | PASS                             |
|          | 6265               | 63      | be (320MHz)    | PASS                             | PASS                             |
| Band 7   | 6695               | 117     | be (20MHz)     | PASS                             | PASS                             |
|          | 6695               | 149     | be (20MHz)     | PASS                             | PASS                             |
|          | 6875               | 185     | be (20MHz)     | PASS                             | PASS                             |
|          | 6565               | 123     | be (40MHz)     | PASS                             | PASS                             |
|          | 6725               | 155     | be (40MHz)     | PASS                             | PASS                             |
|          | 6845               | 179     | be (40MHz)     | PASS                             | PASS                             |
|          | 6545               | 119     | be (80MHz)     | PASS                             | PASS                             |
|          | 6705               | 151     | be (80MHz)     | PASS                             | PASS                             |
|          | 6865               | 183     | be (80MHz)     | PASS                             | PASS                             |
|          | 6665               | 143     | be (160MHz)    | PASS                             | PASS                             |
|          | 6825               | 175     | be (160MHz)    | PASS                             | PASS                             |
| Band 7/8 | 6745               | 159     | be (320MHz)    | PASS                             | PASS                             |

**Table 7-87. In Band Emissions Results Measurements (Full Tones) – SP**

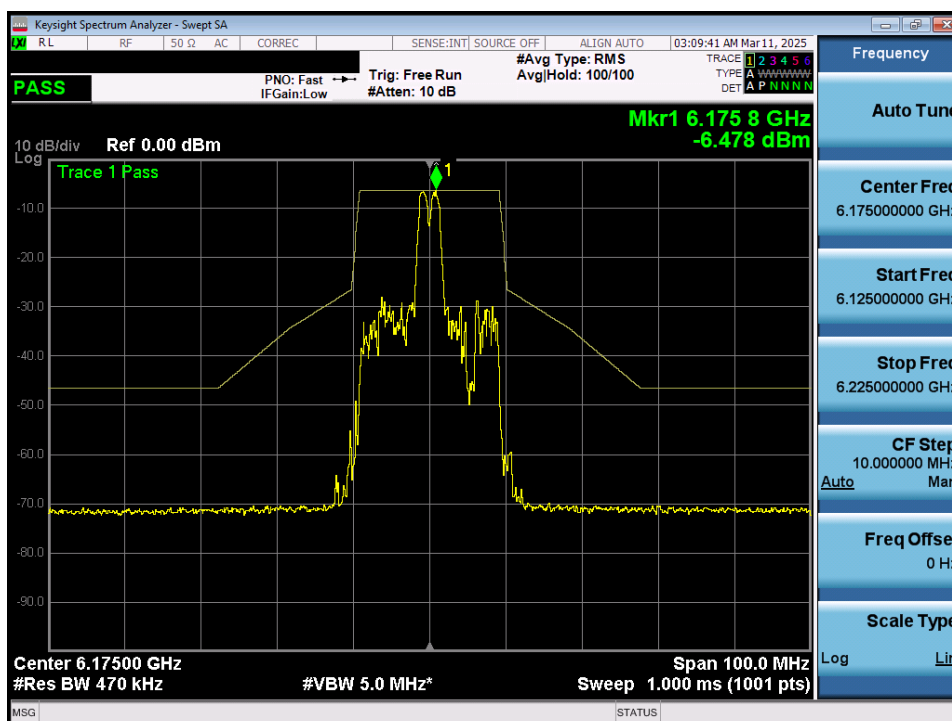
|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 110 of 158                          |

|          | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>In-Band<br>Emission | Antenna-2<br>In-Band<br>Emission |
|----------|--------------------|---------|----------------|----------------------------------|----------------------------------|
| Band 5   | 6175               | 45      | be (20MHz)     | PASS                             | PASS                             |
|          | 6145               | 39      | be (80MHz)     | PASS                             | PASS                             |
|          | 6185               | 47      | be (160MHz)    | PASS                             | PASS                             |
|          | 6265               | 63      | be (320MHz)    | PASS                             | PASS                             |
| Band 7   | 6695               | 149     | be (20MHz)     | PASS                             | PASS                             |
|          | 6705               | 151     | be (80MHz)     | PASS                             | PASS                             |
|          | 6825               | 175     | be (160MHz)    | PASS                             | PASS                             |
| Band 7/8 | 6745               | 159     | be (320MHz)    | PASS                             | PASS                             |

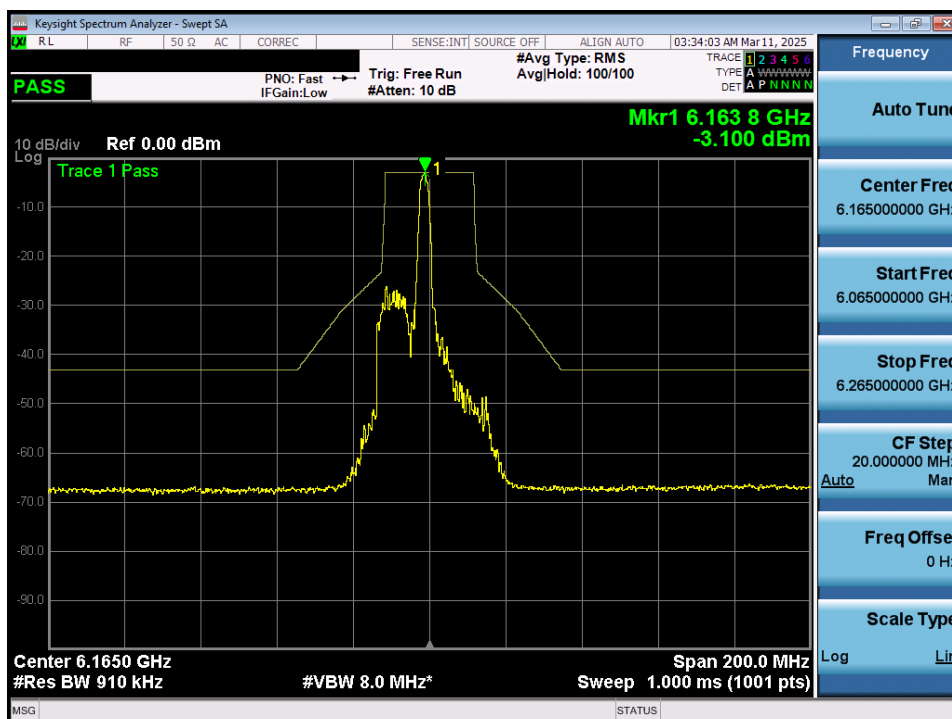
**Table 7-88. In Band Emissions Results Measurements (MRU) – SP**

|                                                      |                                               |                                      |                                          |
|------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966U<br><b>IC:</b> 649E-SMF966W | <b>MEASUREMENT REPORT</b>                     |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502210015-23-R1.A3L    | <b>Test Dates:</b><br>02/24/2025 - 04/11/2025 | <b>EUT Type:</b><br>Portable Handset | Page 111 of 158                          |

## 7.5.1 MIMO Antenna-1 In-Band Emission Measurements

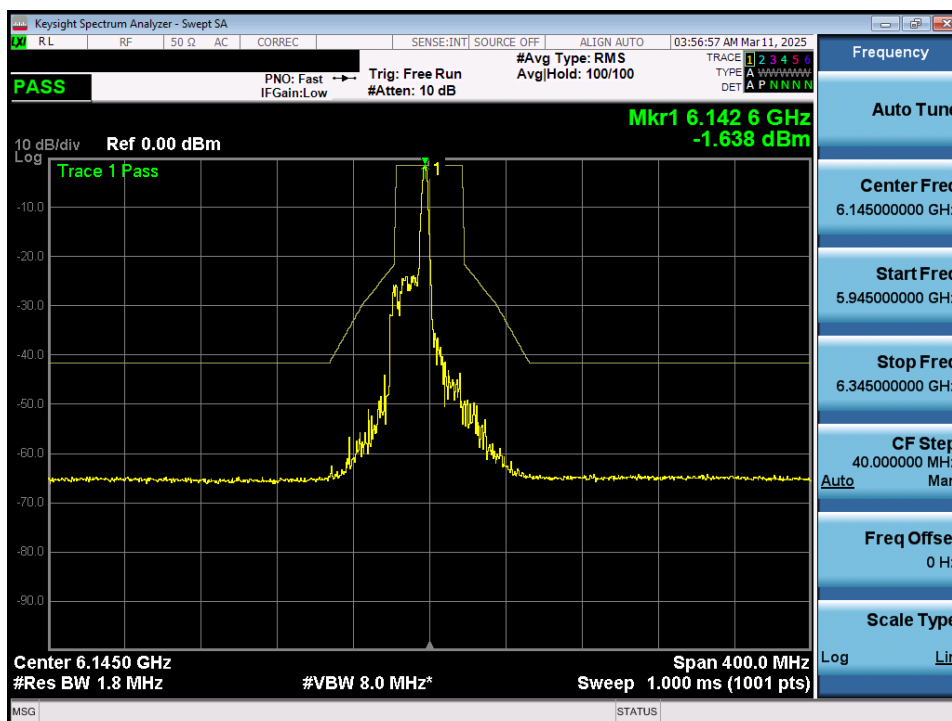


Plot 7-89. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - LPI

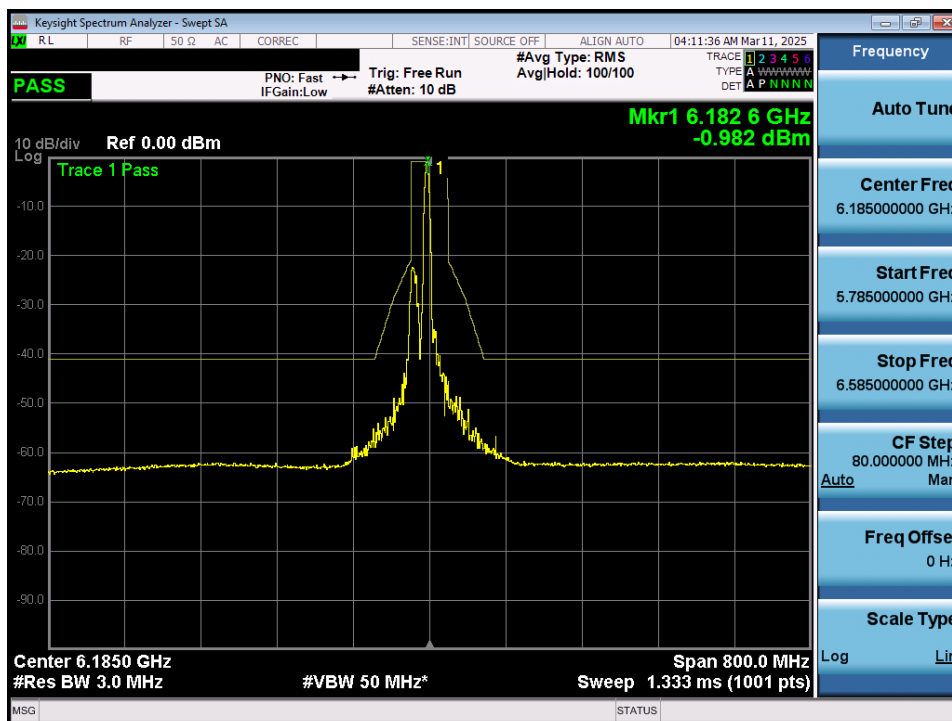


Plot 7-90. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 112 of 158                   |

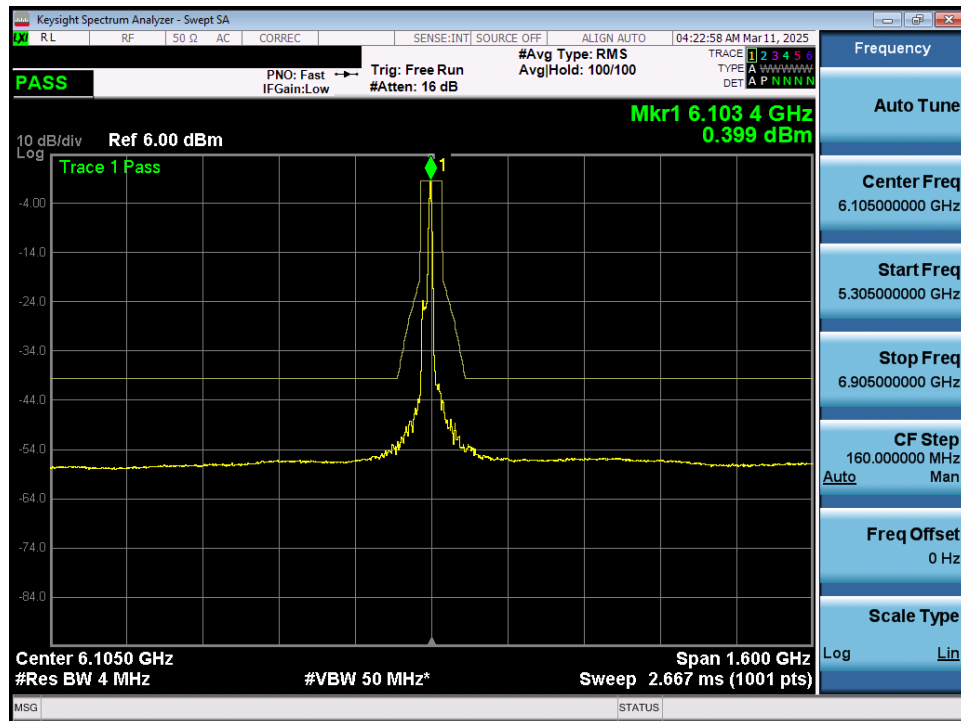


Plot 7-91. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - LPI

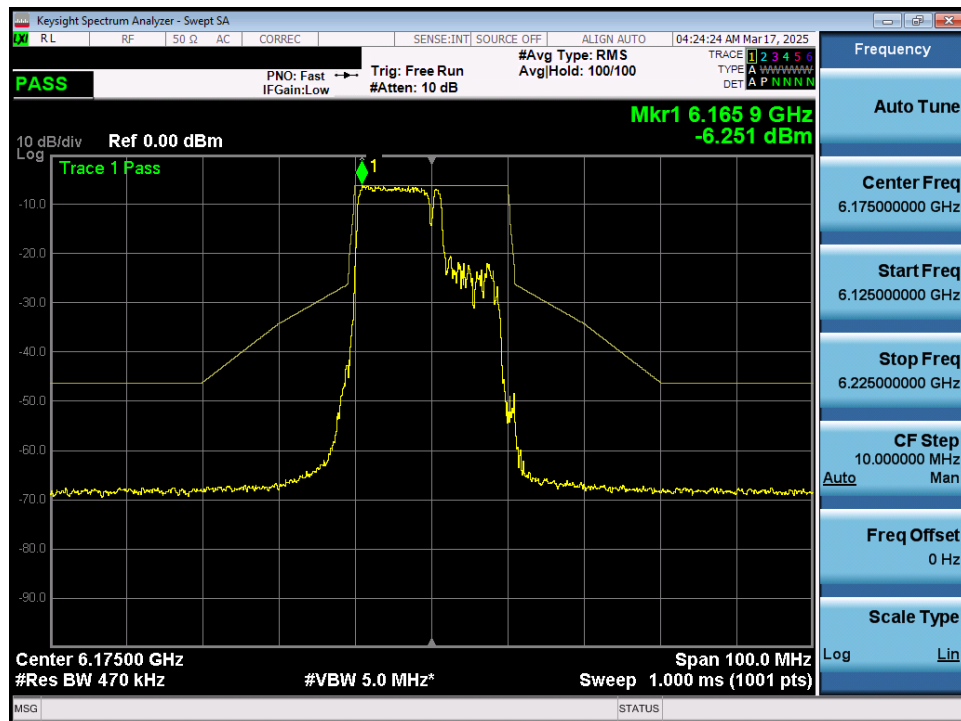


Plot 7-92. In Band Emissions Plot MIMO ANT1 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 113 of 158                   |

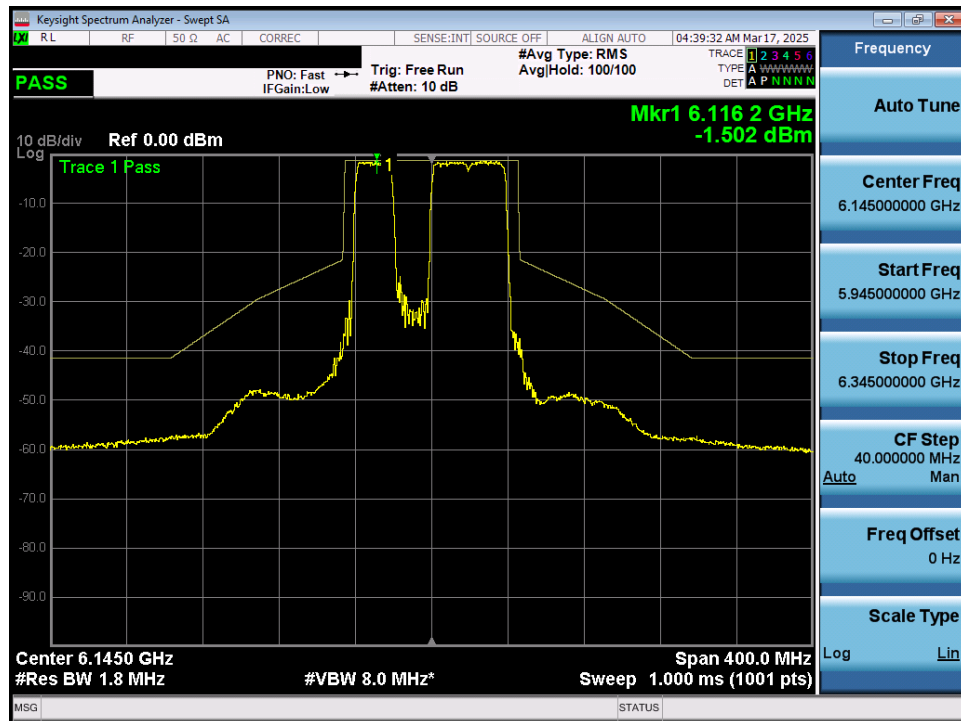


Plot 7-93. In Band Emissions Plot MIMO ANT1 (320MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 31) - LPI

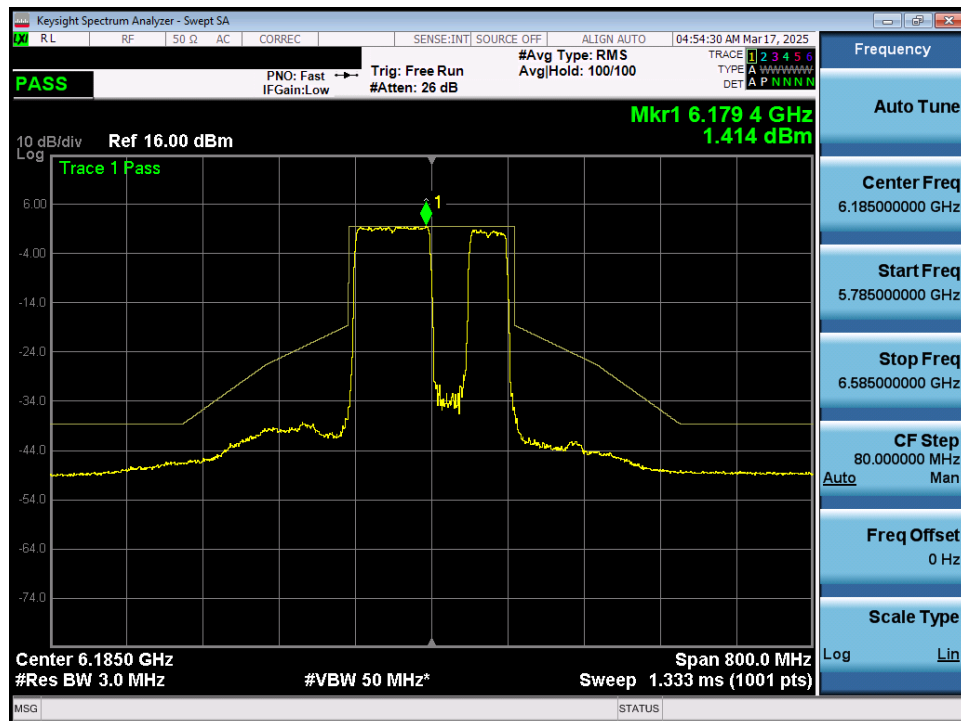


Plot 7-94. In Band Emissions Plot MIMO ANT1 (20MHz 802.11be (106+26 Tones) (UNII Band 5) – Ch. 45) - LPI

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 114 of 158                   |

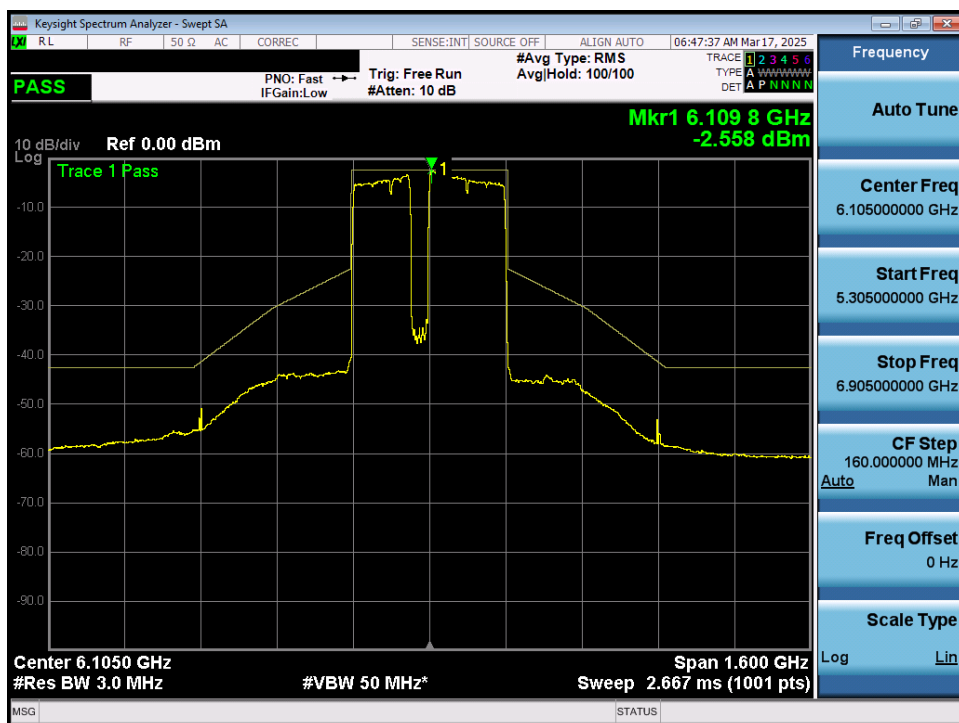


Plot 7-95. In Band Emissions Plot MIMO ANT1 (80MHz 802.11be (484+242 Tones) (UNII Band 5) – Ch. 39) LPI/SP



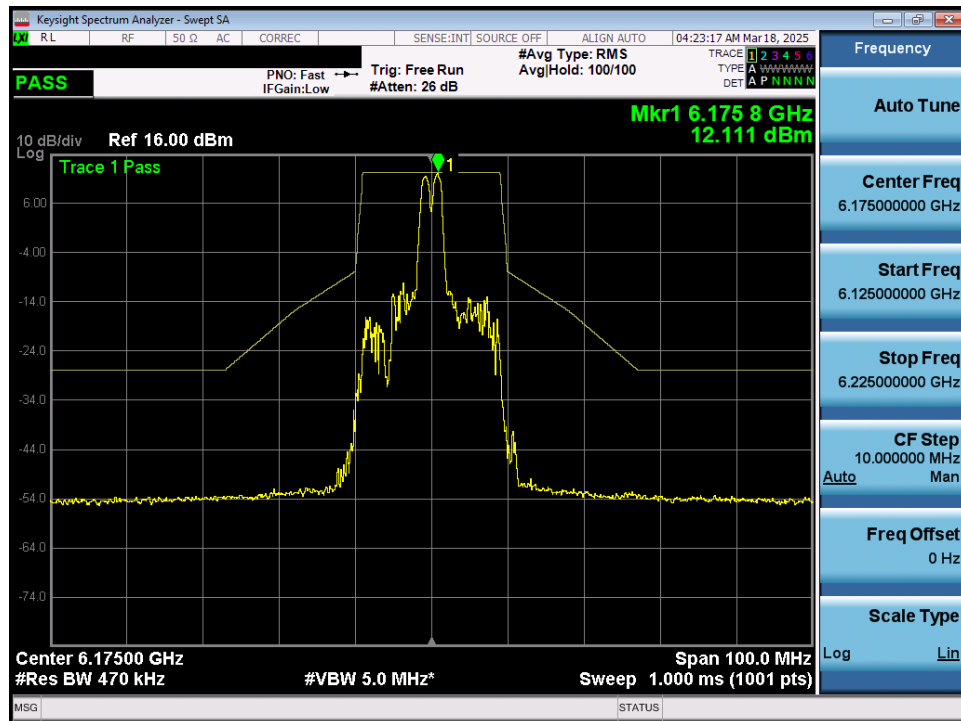
Plot 7-96. In Band Emissions Plot MIMO ANT1 (160MHz 802.11be (996+484 Tones) (UNII Band 5) – Ch. 47) LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 115 of 158                   |

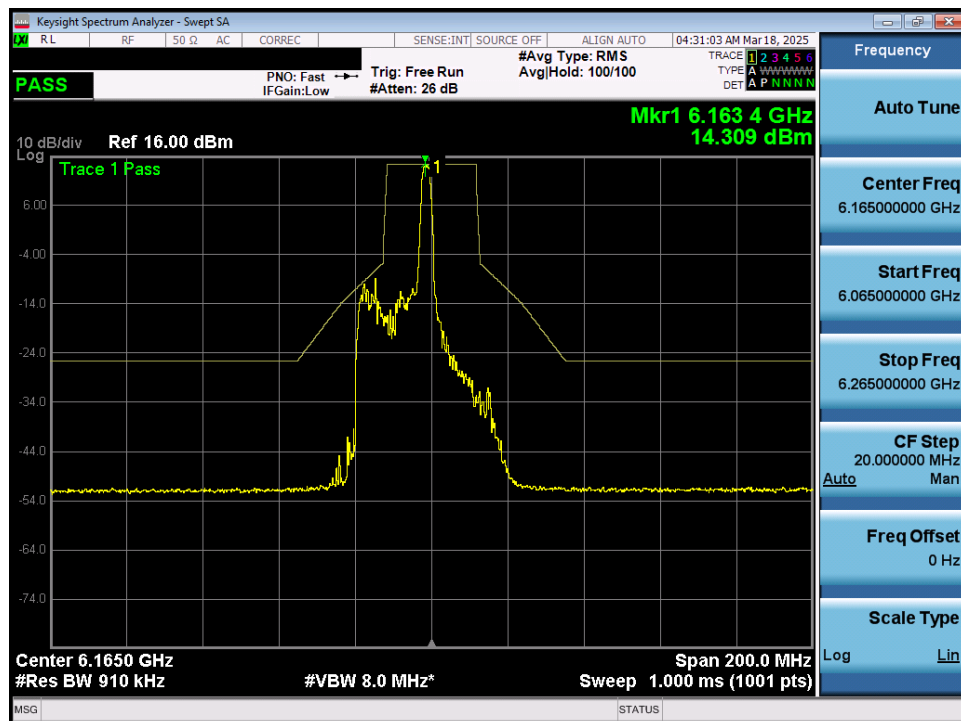


Plot 7-97. In Band Emissions Plot MIMO ANT1 (320MHz 802.11be (3\*996+484 Tones) (UNII Band 5) – Ch. 31) LPI/SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 116 of 158                   |

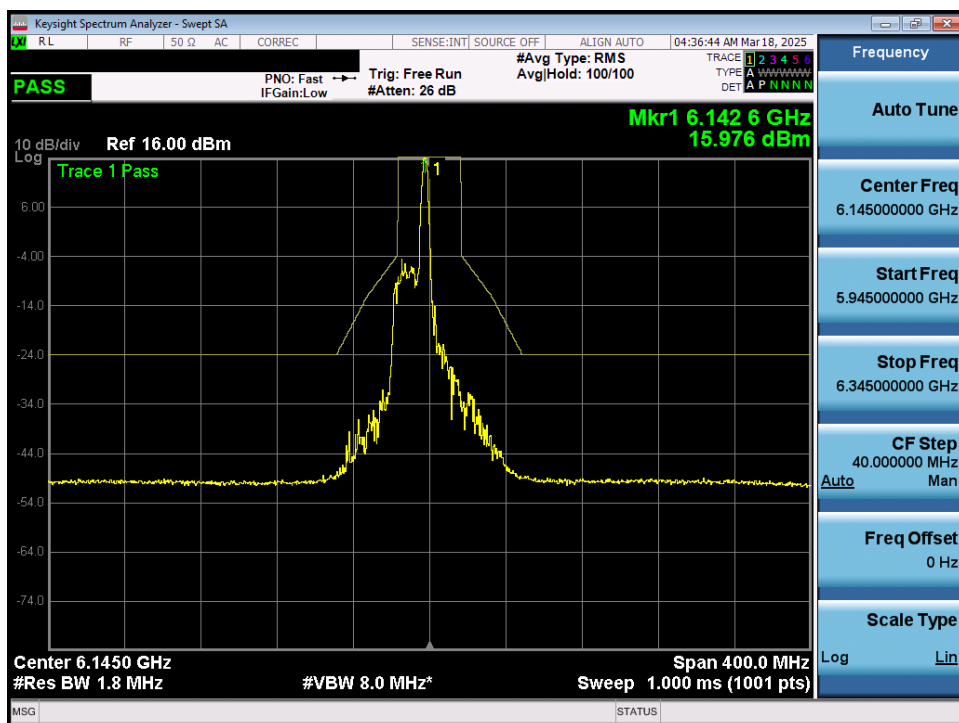


Plot 7-98. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 45) - SP

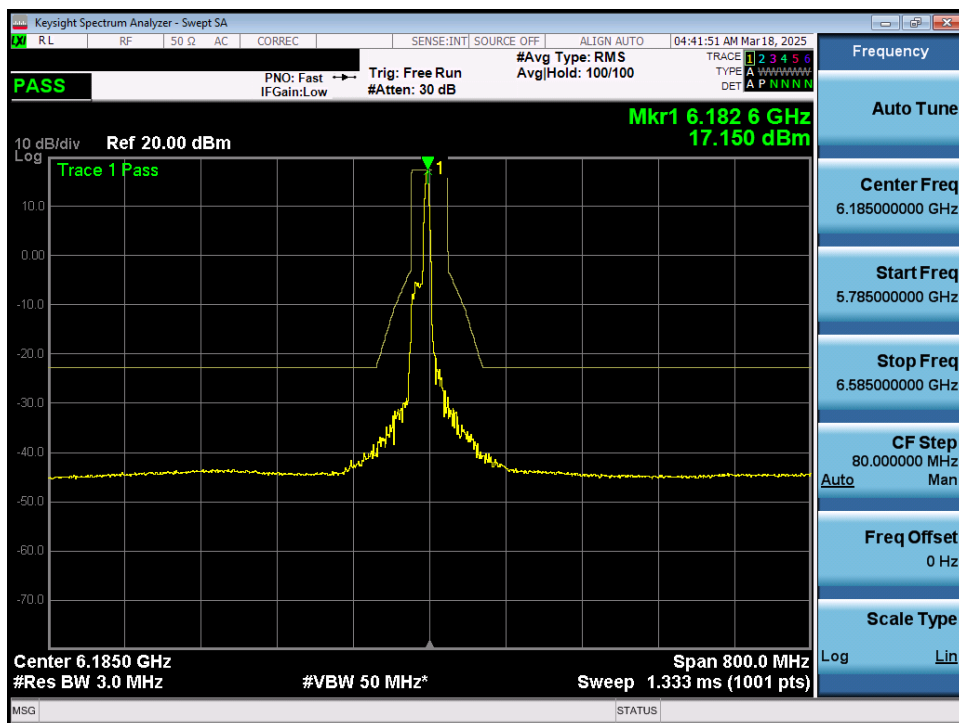


Plot 7-99. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 43) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 117 of 158                   |



Plot 7-100. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 39) - SP



Plot 7-101. In Band Emissions Plot MIMO ANT1 (160MHz 802.11ax/be (26 Tones) (UNII Band 5) – Ch. 47) - SP

|                                            |                                        |                               |                                   |
|--------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966U<br>IC: 649E-SMF966W     | MEASUREMENT REPORT                     |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502210015-23-R1.A3L | Test Dates:<br>02/24/2025 - 04/11/2025 | EUT Type:<br>Portable Handset | Page 118 of 158                   |