

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Report No.:** RFBEIH-WTW-P24090570-5

**FCC ID:** P27XB10

**Product:** Comcast Xfinity DOCSIS 4.0 gateway with Wi-Fi 7

**Brand:** Comcast Xfinity

**Model No.:** XB10

**Series Model:** SG417DBCT

**Received Date:** 2024/10/9

**Test Date:** 2024/11/8 ~ 2025/2/5

**Issued Date:** 2025/2/18

**Applicant:** Sercomm Corporation

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**Test Location(3):** No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan

**FCC Registration / Test Location:**

**Designation Number:** 198487 / TW2021 for Test Location(1)  
788550 / TW0003 for Test Location(2)  
281270 / TW0032 for Test Location(3)

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

, Date:

2025/2/18

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Prepared by : Annie Chang / Senior Specialist

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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFBEIH-WTW-P24090570-5 | Original release. | 2025/2/18   |

## 1 Certificate

**Product:** Comcast Xfinity DOCSIS 4.0 gateway with Wi-Fi 7

**Brand:** Comcast Xfinity

**Test Model:** XB10

**Series Model:** SG417DBCT

**Sample Status:** Engineering sample

**Applicant:** Sercomm Corporation

**Test Date:** 2024/11/8 ~ 2025/2/5

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Measurement procedure:** ANSI C63.10-2013  
KDB 987594 D02 U-NII 6 GHz EMC Measurement v03  
KDB 789033 D02 General UNII Test Procedure New Rules v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |                                |        |                                                   |
|------------------------------------------------|--------------------------------|--------|---------------------------------------------------|
| Clause                                         | Test Item                      | Result | Remark                                            |
| 15.407(a)(5)                                   | Maximum RF Output Power        | Pass   | Meet the requirement of limit.                    |
| 15.407(a)(5)                                   | Maximum Power Spectral Density | Pass   | Meet the requirement of limit.                    |
| 15.407(a)(11)                                  | Emission Bandwidth             | Pass   | Meet the requirement of limit.                    |
| ---                                            | Occupied Bandwidth             | -      | Reference only.                                   |
| 15.407(b)(9)                                   | AC Power Conducted Emissions   | Pass   | Minimum passing margin is -5.70 dB at 0.15391 MHz |
| 15.407(b)(9)                                   | Unwanted Emissions below 1 GHz | Pass   | Minimum passing margin is -6.8 dB at 435.75 MHz   |
| 15.407(b)(6)<br>15.407(b)(10)                  | Unwanted Emissions above 1 GHz | Pass   | Minimum passing margin is -2.8 dB at 5925.00 MHz  |
| 15.407(b)(7)                                   | In-Band Emission Mask          | Pass   | Meet the requirement of limit.                    |
| 15.407(d)(6)                                   | Contention-based Protocol      | Pass   | Meet the requirement of limit.                    |
| 15.203                                         | Antenna Requirement            | Pass   | No antenna connector is used.                     |

Notes: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Specification   | Expanded Uncertainty (k=2)<br>(±) |
|--------------------------------|-----------------|-----------------------------------|
| Maximum RF Output Power        | -               | 1.1 dB                            |
| Maximum Power Spectral Density | -               | 1.3 dB                            |
| Occupied Bandwidth             | -               | 960 Hz                            |
| AC Power Conducted Emissions   | 9 kHz ~ 30 MHz  | 2.90 dB                           |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz  | 2.85 dB                           |
|                                | 30 MHz ~ 1 GHz  | 5.7 dB                            |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz  | 1.76 dB                           |
|                                | 18 GHz ~ 40 GHz | 1.77 dB                           |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

### 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | Comcast Xfinity DOCSIS 4.0 gateway with Wi-Fi 7                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Brand                 | Comcast Xfinity                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Model            | XB10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Series Model          | SG417DBCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model Difference      | Marketing Differentiation                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Status of EUT         | Engineering sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Power Supply Rating   | 15Vdc from Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Modulation Type       | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>1024QAM for OFDMA in 11ax mode<br>4096QAM for OFDMA in 11be mode                                                                                                                                                                                                                                                                                                                                                                                        |
| Modulation Technology | OFDM, OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Transfer Rate         | Up to 4803.9 Mbps<br>Up to 11528 Mbps (802.11be)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating Frequency   | 5.955 GHz ~ 6.415 GHz, 6.425 GHz ~ 6.525 GHz, 6.535 GHz ~ 6.865 GHz,<br>6.875 GHz ~ 7.095 GHz                                                                                                                                                                                                                                                                                                                                                                                                |
| Number of Channel     | 802.11a, 802.11ax (HE20), 802.11be (EHT20):58<br>802.11ax (HE40), 802.11be (EHT40):29<br>802.11ax (HE80), 802.11be (EHT80):14<br>802.11ax (HE160), 802.11be (EHT160):7<br>802.11be (EHT320):6                                                                                                                                                                                                                                                                                                |
| Output Power          | CDD Mode:<br>5.955 GHz ~ 6.415 GHz : EIRP: 354.813 mW (25.50 dBm)<br>6.425 GHz ~ 6.525 GHz : EIRP: 353.997 mW (25.49 dBm)<br>6.535 GHz ~ 6.865 GHz : EIRP: 357.273 mW (25.53 dBm)<br>6.875 GHz ~ 7.095 GHz : EIRP: 264.241 mW (24.22 dBm)<br>Beamforming Mode:<br>5.955 GHz ~ 6.415 GHz : EIRP: 714.496 mW (28.54 dBm)<br>6.425 GHz ~ 6.525 GHz : EIRP: 645.654 mW (28.1 dBm)<br>6.535 GHz ~ 6.865 GHz : EIRP: 690.24 mW (28.39 dBm)<br>6.875 GHz ~ 7.095 GHz : EIRP: 394.457 mW (25.96 dBm) |
| Equipment Class       | 6ID: 15E 6 GHz Low-power indoor access point                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Note:

1. The EUT uses following accessories.

| Item         | Brand                  | Model           | Specification                                                                              |
|--------------|------------------------|-----------------|--------------------------------------------------------------------------------------------|
| AC Adapter 1 | NETBIT ELECTRONICS LTD | NBC80B150533VU  | AC I/P: 120V, 60Hz, 1.8A<br>DC O/P: 15.0V, 5.33A<br>AC 2-Pin, Non-shielded DC cable (1.8m) |
| AC Adapter 2 | LEADER ELECTRONICS INC | ML80-1150533-A1 | AC I/P: 120V, 60Hz, 2.0A<br>DC O/P: 15.0V, 5.33A<br>AC 2-Pin, Non-shielded DC cable (1.8m) |
| AC Adapter 3 | Delta                  | ADH-80AW BA     | AC I/P: 120V, 60Hz, 1.6A<br>DC O/P: 15.0V, 5.33A<br>AC 2-Pin, Non-shielded DC cable (1.8m) |

2. There are Bluetooth, Zigbee and WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.

3. Simultaneously transmission combination.

| Combination | Technology     |              |              |
|-------------|----------------|--------------|--------------|
| 1           | WLAN (2.4 GHz) | WLAN (5 GHz) | WLAN (6 GHz) |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The directional antenna gain information is declared by manufacturer and more detailed features description please refer to operation description of antenna specifications exhibit.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| No. | Technology | Ant. Type | Connector | Model                        |
|-----|------------|-----------|-----------|------------------------------|
| 1   | WLAN       | Dipole    | U.FL      | N06CTANG-PK1-LB1X80BU Rev F  |
| 2   |            |           |           | N06CTANH-PK1-LP1X135BU Rev G |
| 3   |            |           |           | N06CTANE-PK1-LG1X180BU Rev G |
| 4   |            |           |           | N06CTANF-PK1-LW1X125BU Rev F |
| 5   |            |           |           | N03CTAND-PK1-Y1X205BU Rev E  |
| 6   |            |           |           | N03CTANR-PK1-B1X150BU Rev A  |
| 7   |            |           |           | N03CTANS-PK1-A1X240BU Rev B  |
| 8   |            |           |           | N03CTANA-PK1-R1X215BU Rev E  |
| 9   | Zigbee     | Dipole    | U.FL      | N01CTANJ-PK1-B1X230BU Rev F  |
| 10  |            |           |           | N01CTANK-PK1-Q1X245BU Rev G  |
| 11  | Bluetooth  | Dipole    | ipex      | -                            |

| Frequency Range (GHz) | Max. Antenna gain (dBi) |       |       |       |       |       |       |       |       |        |        |
|-----------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
|                       | Ant 1                   | Ant 2 | Ant 3 | Ant 4 | Ant 5 | Ant 6 | Ant 7 | Ant 8 | Ant 9 | Ant 10 | Ant 11 |
| 2.4~2.4835            |                         |       |       |       | 4.8   | 4.8   | 5.1   | 4.6   | 4.7   | 4.7    | 3.44   |
| 5.15~5.85             |                         |       |       |       | 5     | 5     | 4.9   | 5     |       |        |        |
| 5.925~7.125           | 5.2                     | 5     | 5.3   | 4.9   |       |       |       |       |       |        |        |

| Frequency Range (GHz) | Min. Antenna Gain (dBi) |
|-----------------------|-------------------------|
| 5.925~7.125           | 4.3                     |

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

| 6 GHz Band        |                  |                       |     |
|-------------------|------------------|-----------------------|-----|
| Modulation Mode   | Beamforming Mode | Tx & Rx Configuration |     |
| 802.11a           | Not Support      | 4TX                   | 4RX |
| 802.11ax (HE20)   | Support          | 4TX                   | 4RX |
| 802.11ax (HE40)   | Support          | 4TX                   | 4RX |
| 802.11ax (HE80)   | Support          | 4TX                   | 4RX |
| 802.11ax (HE160)  | Support          | 4TX                   | 4RX |
| 802.11be (EHT20)  | Support          | 4TX                   | 4RX |
| 802.11be (EHT40)  | Support          | 4TX                   | 4RX |
| 802.11be (EHT80)  | Support          | 4TX                   | 4RX |
| 802.11be (EHT160) | Support          | 4TX                   | 4RX |
| 802.11be (EHT320) | Support          | 4TX                   | 4RX |

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160MHz, 320MHz), therefore the manufacturer will control the power for 802.11ax mode is the same as the 802.11be or lower than it and investigated worst case to representative mode in test report.
4. The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

### 3.3 Channel List

#### U-NII-5:

24 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1       | 5955 MHz  | 5       | 5975 MHz  | 9       | 5995 MHz  | 13      | 6015 MHz  |
| 17      | 6035 MHz  | 21      | 6055 MHz  | 25      | 6075 MHz  | 29      | 6095 MHz  |
| 33      | 6115 MHz  | 37      | 6135 MHz  | 41      | 6155 MHz  | 45      | 6175 MHz  |
| 49      | 6195 MHz  | 53      | 6215 MHz  | 57      | 6235 MHz  | 61      | 6255 MHz  |
| 65      | 6275 MHz  | 69      | 6295 MHz  | 73      | 6315 MHz  | 77      | 6335 MHz  |
| 81      | 6355 MHz  | 85      | 6375 MHz  | 89      | 6395 MHz  | 93      | 6415 MHz  |

12 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 3       | 5965 MHz  | 11      | 6005 MHz  | 19      | 6045 MHz  | 27      | 6085 MHz  |
| 35      | 6125 MHz  | 43      | 6165 MHz  | 51      | 6205 MHz  | 59      | 6245 MHz  |
| 67      | 6285 MHz  | 75      | 6325 MHz  | 83      | 6365 MHz  | 91      | 6405 MHz  |

6 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 7       | 5985 MHz  | 23      | 6065 MHz  | 39      | 6145 MHz  | 55      | 6225 MHz  |
| 71      | 6305 MHz  | 87      | 6385 MHz  |         |           |         |           |

3 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 15      | 6025 MHz  | 47      | 6185 MHz  | 79      | 6345 MHz  |

2 channels are provided for 802.11be (EHT320):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 31      | 6105 MHz  | 63      | 6265 MHz  |

#### U-NII-6:

5 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 97      | 6435 MHz  | 101     | 6455 MHz  | 105     | 6475 MHz  | 109     | 6495 MHz  |
| 113     | 6515 MHz  |         |           |         |           |         |           |

3 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 99      | 6445 MHz  | 107     | 6485 MHz  | *115    | 6525 MHz  |

1 channel is provided for 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency |
|---------|-----------|
| 103     | 6465 MHz  |

1 channel is provided for 802.11ax (HE160), 802.11be (EHT160):

| Channel | Frequency |
|---------|-----------|
| *111    | 6505 MHz  |

1 channel is provided for 802.11be (EHT320):

| Channel | Frequency |
|---------|-----------|
| *95     | 6425 MHz  |

#### U-NII-7:

17 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 117     | 6535 MHz  | 121     | 6555 MHz  | 125     | 6575 MHz  | 129     | 6595 MHz  |
| 133     | 6615 MHz  | 137     | 6635 MHz  | 141     | 6655 MHz  | 145     | 6675 MHz  |
| 149     | 6695 MHz  | 153     | 6715 MHz  | 157     | 6735 MHz  | 161     | 6755 MHz  |
| 165     | 6775 MHz  | 169     | 6795 MHz  | 173     | 6815 MHz  | 177     | 6835 MHz  |
| 181     | 6855 MHz  |         |           |         |           |         |           |

8 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 123     | 6565 MHz  | 131     | 6605 MHz  | 139     | 6645 MHz  | 147     | 6685 MHz  |
| 155     | 6725 MHz  | 163     | 6765 MHz  | 171     | 6805 MHz  | 179     | 6845 MHz  |

5 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| *119    | 6545 MHz  | 135     | 6625 MHz  | 151     | 6705 MHz  | 167     | 6785 MHz  |
| *183    | 6865 MHz  |         |           |         |           |         |           |

2 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 143     | 6665 MHz  | *175    | 6825 MHz  |

2 channels are provided for 802.11be (EHT320):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| *127    | 6585 MHz  | *159    | 6745 MHz  |

#### U-NII-8:

12 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 185     | 6875 MHz  | 189     | 6895 MHz  | 193     | 6915 MHz  | 197     | 6935 MHz  |
| 201     | 6955 MHz  | 205     | 6975 MHz  | 209     | 6995 MHz  | 213     | 7015 MHz  |
| 217     | 7035 MHz  | 221     | 7055 MHz  | 225     | 7075 MHz  | 229     | 7095 MHz  |

6 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 187     | 6885 MHz  | 195     | 6925 MHz  | 203     | 6965 MHz  | 211     | 7005 MHz  |
| 219     | 7045 MHz  | 227     | 7085 MHz  |         |           |         |           |

2 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 199     | 6945 MHz  | 215     | 7025 MHz  |

1 channel is provided for 802.11ax (HE160), 802.11be (EHT160):

| Channel | Frequency |
|---------|-----------|
| 207     | 6985 MHz  |

1 channel is provided for 802.11be (EHT320):

| Channel | Frequency |
|---------|-----------|
| *191    | 6905 MHz  |

Note: \* mean these are straddle channels.

### 3.4 Test Mode Applicability and Tested Channel Detail

|             |                                                                                                                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Scan:   | 1. EUT has AC Adapter 1(NETBIT ELECTRONICS LTD)/ AC Adapter 2(LEADER ELECTRONICS INC)/ AC Adapter 3(Delta) modes of power supply. Pre-scan these modes and find the worst case as a representative test condition. |
| Worst Case: | 1. AC Adapter 3(Delta) is the worst case as a representative test condition.                                                                                                                                       |

Following channel(s) was (were) selected for the final test as listed below:

| Test Item                      | Mode              | Signal Mode       | Tested Channel                                        | Modulation | Data Rate Parameter |
|--------------------------------|-------------------|-------------------|-------------------------------------------------------|------------|---------------------|
| Maximum RF Output Power        | 802.11a           | CDD               | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | 6Mb/s               |
|                                | 802.11ax (HE20)   | CDD & Beamforming | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |
|                                | 802.11ax (HE40)   | CDD & Beamforming | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                | 802.11ax (HE80)   | CDD & Beamforming | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
|                                | 802.11ax (HE160)  | CDD & Beamforming | 15, 47, 79, 111, 143, 175, 207                        | BPSK       | MCS0                |
|                                | 802.11be (EHT20)  | CDD & Beamforming | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |
|                                | 802.11be (EHT40)  | CDD & Beamforming | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                | 802.11be (EHT80)  | CDD & Beamforming | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
|                                | 802.11be (EHT160) | CDD & Beamforming | 15, 47, 79, 111, 143, 175, 207                        | BPSK       | MCS0                |
|                                | 802.11be (EHT320) | CDD & Beamforming | 31, 63, 95, 127, 159, 191                             | BPSK       | MCS0                |
| Maximum Power Spectral Density | 802.11a           | CDD               | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | 6Mb/s               |
|                                | 802.11be (EHT20)  | Beamforming       | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |
|                                | 802.11be (EHT40)  | Beamforming       | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                | 802.11be (EHT80)  | Beamforming       | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
|                                | 802.11be (EHT160) | Beamforming       | 15, 47, 79, 111, 143, 175, 207                        | BPSK       | MCS0                |
|                                | 802.11be (EHT320) | Beamforming       | 31, 63, 95, 127, 159, 191                             | BPSK       | MCS0                |
| Emission Bandwidth             | 802.11a           | CDD               | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | 6Mb/s               |
|                                | 802.11be (EHT20)  | Beamforming       | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |

| Test Item                      | Mode              | Signal Mode       | Tested Channel                                        | Modulation | Data Rate Parameter |
|--------------------------------|-------------------|-------------------|-------------------------------------------------------|------------|---------------------|
|                                | 802.11be (EHT40)  | Beamforming       | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                | 802.11be (EHT80)  | Beamforming       | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
|                                | 802.11be (EHT160) | Beamforming       | 15, 47, 79, 111, 143, 175, 207                        | BPSK       | MCS0                |
|                                | 802.11be (EHT320) | Beamforming       | 31, 63, 95, 127, 159, 191                             | BPSK       | MCS0                |
| In-Band Emission Mask          | 802.11a           | CDD               | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | 6Mb/s               |
|                                | 802.11be (EHT20)  | Beamforming       | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |
|                                | 802.11be (EHT40)  | Beamforming       | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                | 802.11be (EHT80)  | Beamforming       | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
|                                | 802.11be (EHT160) | Beamforming       | 15, 47, 79, 111, 143, 175, 207                        | BPSK       | MCS0                |
|                                | 802.11be (EHT320) | Beamforming       | 31, 63, 95, 127, 159, 191                             | BPSK       | MCS0                |
| Occupied Bandwidth             | 802.11a           | CDD               | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | 6Mb/s               |
|                                | 802.11be (EHT20)  | Beamforming       | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |
|                                | 802.11be (EHT40)  | Beamforming       | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                | 802.11be (EHT80)  | Beamforming       | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
|                                | 802.11be (EHT160) | Beamforming       | 15, 47, 79, 111, 143, 175, 207                        | BPSK       | MCS0                |
|                                | 802.11be (EHT320) | Beamforming       | 31, 63, 95, 127, 159, 191                             | BPSK       | MCS0                |
| Contention-based Protocol      | 802.11be (EHT20)  | -                 | 45, 105, 149, 209                                     | BPSK       | MCS0                |
|                                | 802.11be (EHT320) | -                 | 31, 95, 159, 191                                      | BPSK       | MCS0                |
| AC Power Conducted Emissions   | 802.11be (EHT320) | Beamforming       | 63                                                    | BPSK       | MCS0                |
| Unwanted Emissions below 1 GHz | 802.11be (EHT320) | Beamforming       | 63                                                    | BPSK       | MCS0                |
| Unwanted Emissions above 1 GHz | 802.11a           | CDD               | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | 6Mb/s               |
|                                | 802.11be (EHT20)  | CDD & Beamforming | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229 | BPSK       | MCS0                |
|                                | 802.11be (EHT40)  | CDD & Beamforming | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |

| Test Item                             | Mode              | Signal Mode       | Tested Channel                          | Modulation | Data Rate Parameter |
|---------------------------------------|-------------------|-------------------|-----------------------------------------|------------|---------------------|
|                                       | 802.11be (EHT80)  | CDD & Beamforming | 7, 39, 87, 103, 119, 151, 183, 199, 215 | BPSK       | MCS0                |
|                                       | 802.11be (EHT160) | CDD & Beamforming | 15, 47, 79, 111, 143, 175, 207          | BPSK       | MCS0                |
|                                       | 802.11be (EHT320) | CDD & Beamforming | 31, 63, 95, 127, 159, 191               | BPSK       | MCS0                |
| Note: not support channel puncturing. |                   |                   |                                         |            |                     |

### 3.5 Duty Cycle of Test Signal

**802.11a:** Duty cycle =  $3.01 \text{ ms} / 3.039 \text{ ms} \times 100\% = 99.0\%$

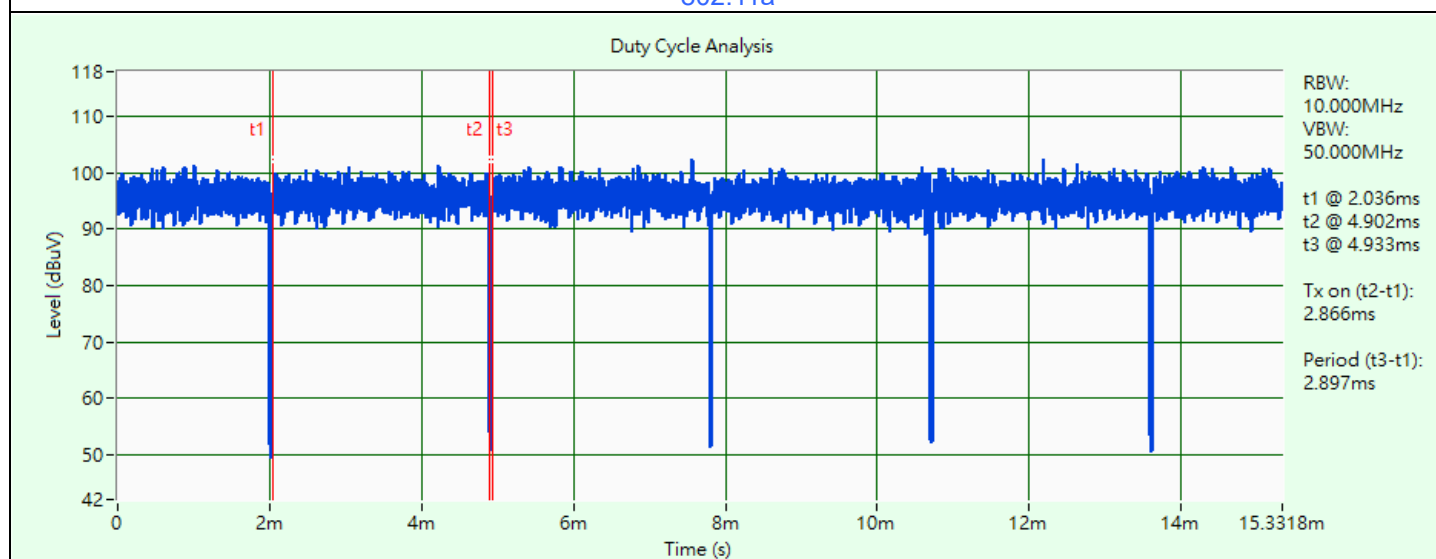
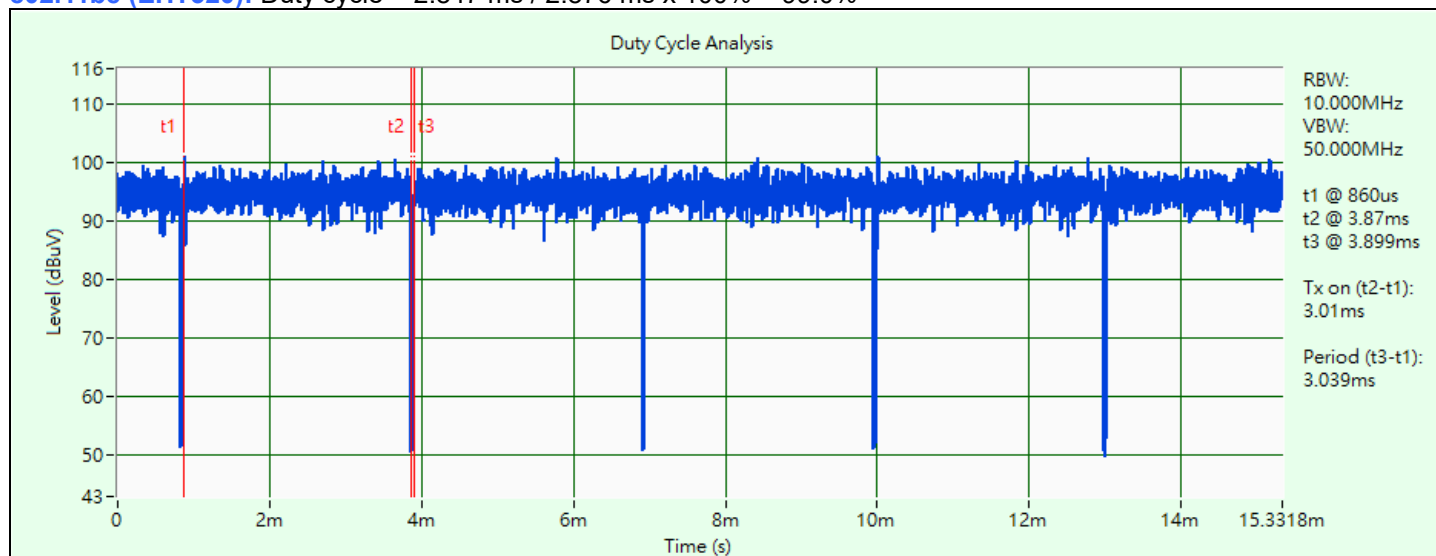
**802.11be (EHT20):** Duty cycle =  $2.866 \text{ ms} / 2.897 \text{ ms} \times 100\% = 98.9\%$

**802.11be (EHT40):** Duty cycle =  $2.849 \text{ ms} / 2.879 \text{ ms} \times 100\% = 99.0\%$

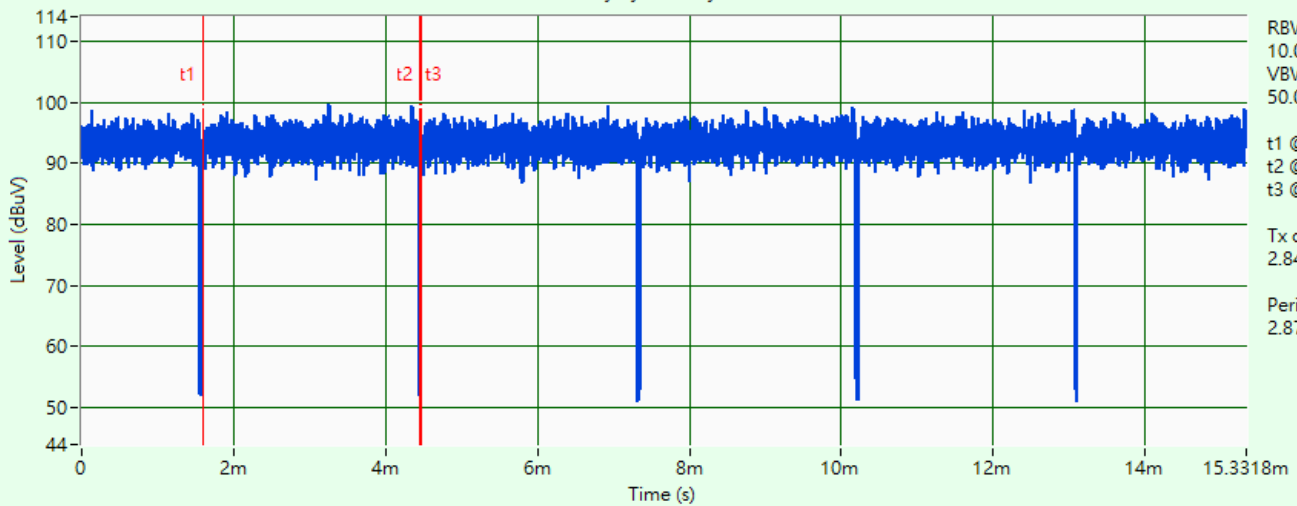
**802.11be (EHT80):** Duty cycle =  $2.843 \text{ ms} / 2.872 \text{ ms} \times 100\% = 99.0\%$

**802.11be (EHT160):** Duty cycle =  $2.843 \text{ ms} / 2.872 \text{ ms} \times 100\% = 99.0\%$

**802.11be (EHT320):** Duty cycle =  $2.847 \text{ ms} / 2.876 \text{ ms} \times 100\% = 99.0\%$

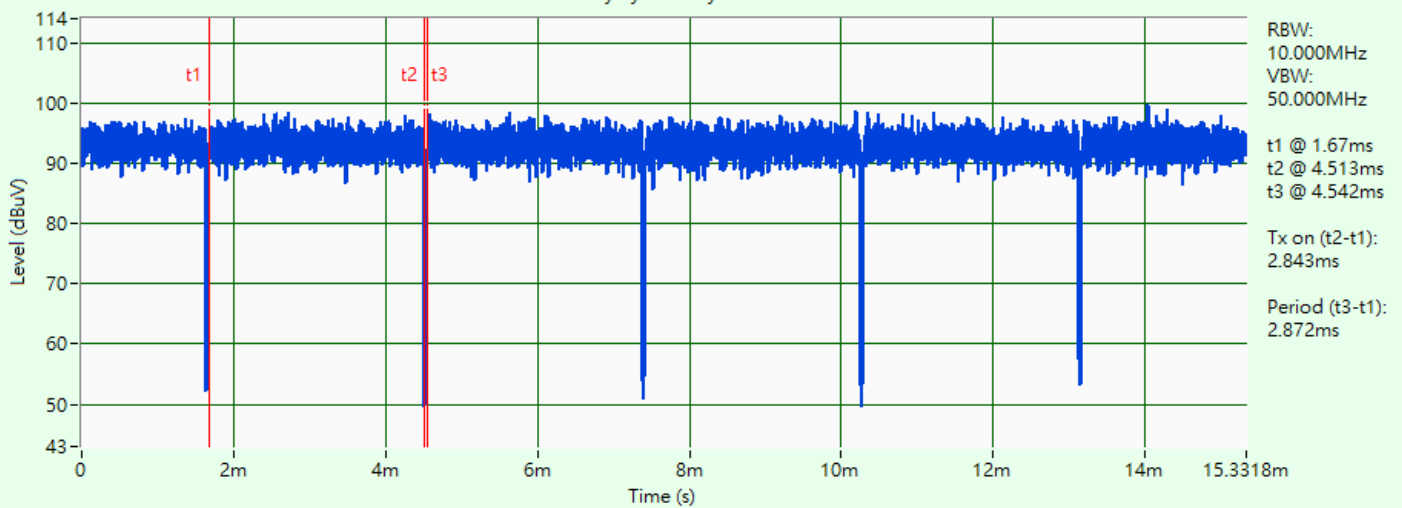


### Duty Cycle Analysis



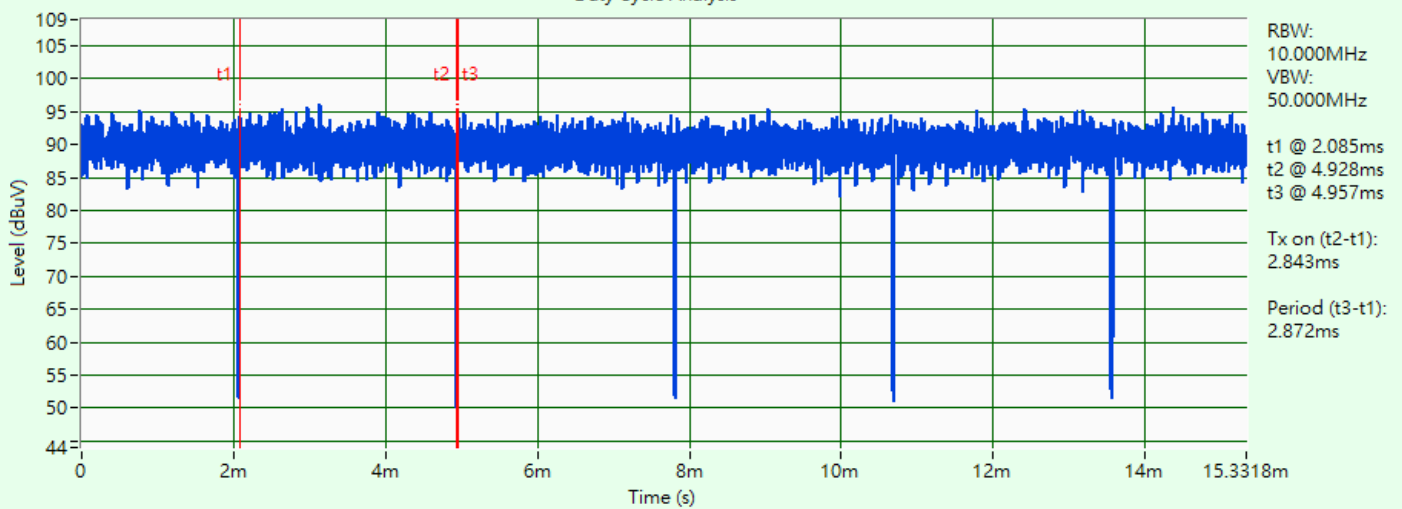
### 802.11be (EHT40)

### Duty Cycle Analysis

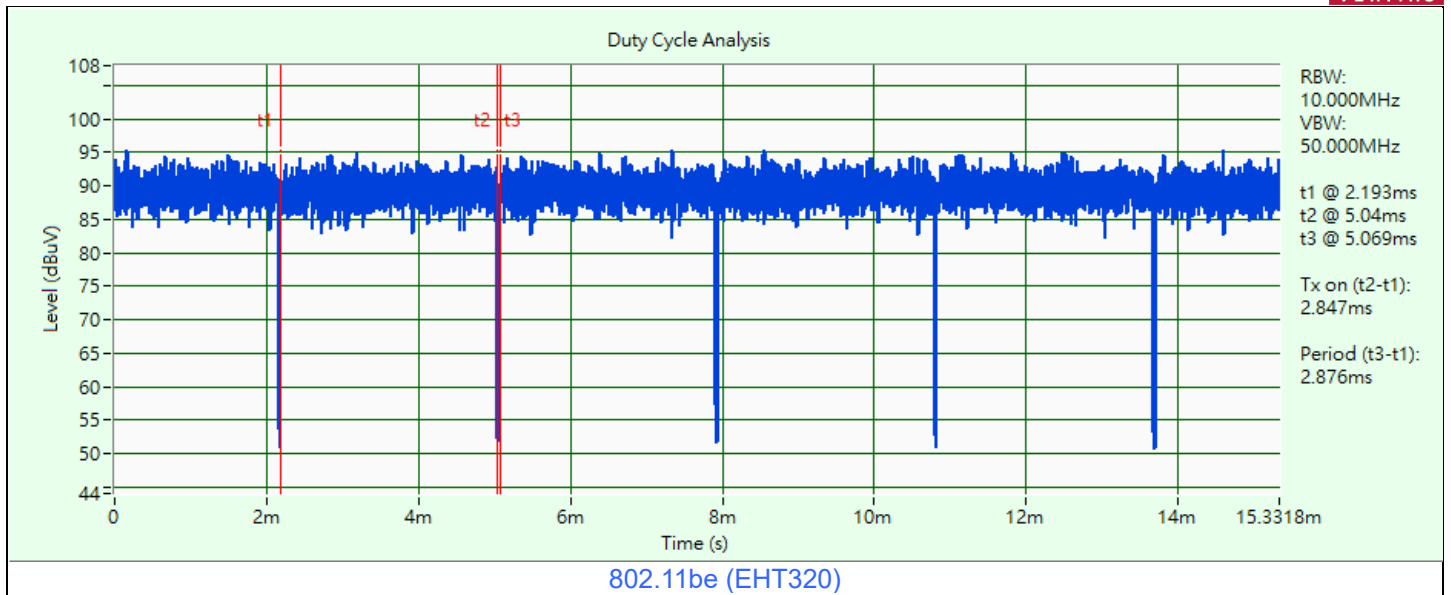


### 802.11be (EHT80)

### Duty Cycle Analysis



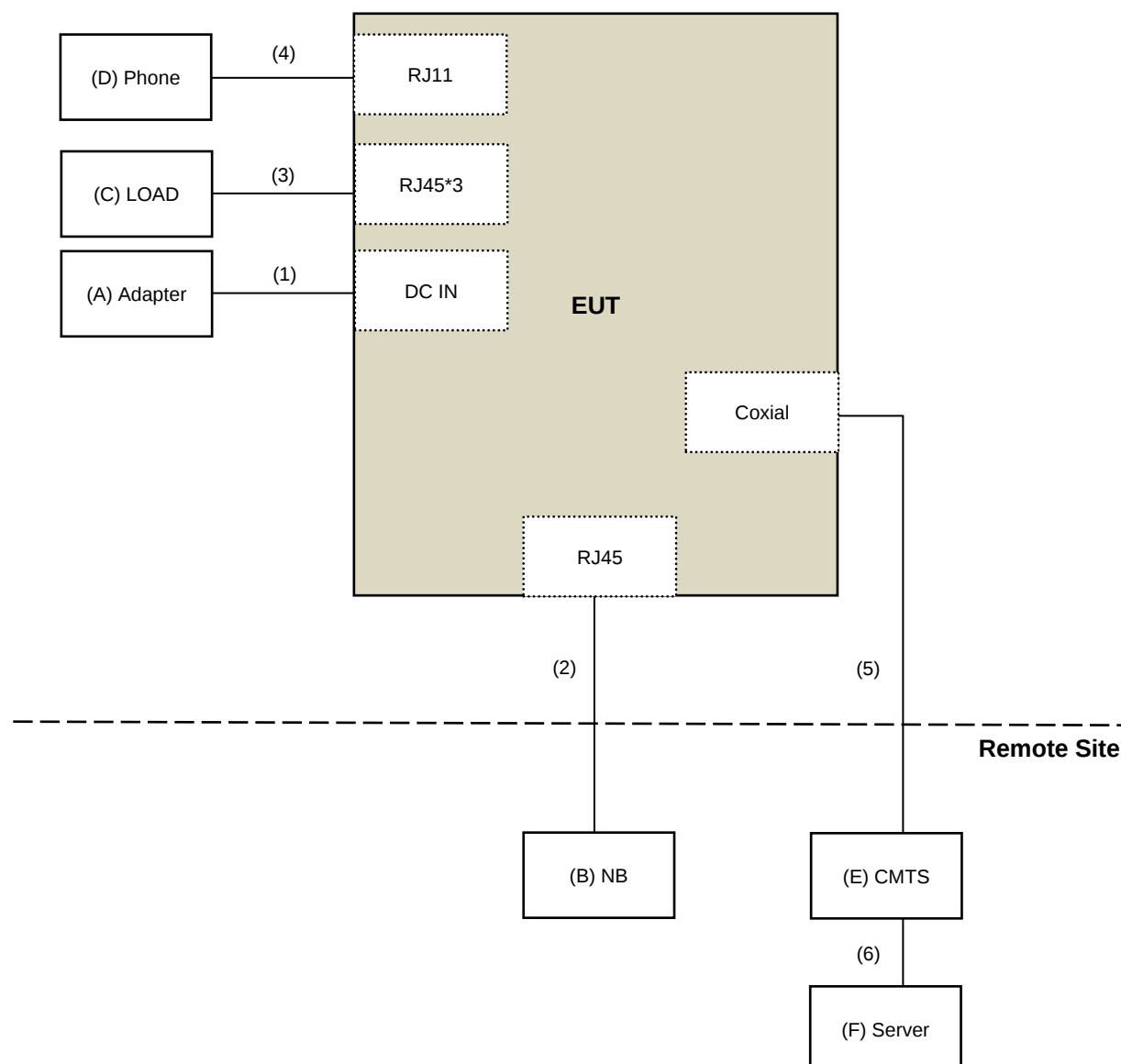
### 802.11be (EHT160)



### 3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool 3.3.0.9) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product | Brand    | Model No.        | Serial No. | FCC ID | Remarks               |
|----|---------|----------|------------------|------------|--------|-----------------------|
| A  | Adapter | Delta    | ADH-80AW BA      | N/A        | N/A    | Supplied by applicant |
| B  | NB      | DELL     | LA65NS2-01       | N/A        | N/A    | Provided by Lab       |
| C  | LOAD    | BV       | BV               | N/A        | N/A    | Provided by Lab       |
| D  | Phone   | ISit0    | IS-333           | N/A        | N/A    | Provided by Lab       |
| E  | CMTS    | Harmonic | D4.0 CMTS System | N/A        | N/A    | Supplied by applicant |
| F  | Server  | Harmonic | D4.0 CMTS System | N/A        | N/A    | Supplied by applicant |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks               |
|----|--------------------|------|------------|--------------------|--------------|-----------------------|
| 1  | Adapter DC cable   | 1    | 1.8        | N                  | 0            | Supplied by applicant |
| 2  | LAN cable          | 1    | 10         | N                  | 0            | Provided by Lab       |
| 3  | LAN cable          | 3    | 1.5        | N                  | 0            | Provided by Lab       |
| 4  | Telecom            | 1    | 2.17       | N                  | 0            | Provided by Lab       |
| 5  | Coaxial            | 1    | 10         | Y                  | 0            | Provided by Lab       |
| 6  | Coaxial            | 1    | 15         | Y                  | 0            | Supplied by applicant |

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 Maximum RF Output Power

| Description<br>Manufacturer       | Model No.                    | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------|------------------------------|-------------|--------------------|---------------------|
| Antenna Tower<br>Max-Full         | MFA-515BSN                   | N/A         | N/A                | N/A                 |
| EXA Signal Analyzer<br>Agilent    | N9010A                       | MY52220207  | 2024/12/30         | 2025/12/29          |
| Horn Antenna<br>RFSPIN            | DRH18-E                      | 210104A18E  | 2024/11/10         | 2025/11/9           |
| Horn Antenna<br>Schwarzbeck       | BBHA 9170                    | 9170-1049   | 2024/11/10         | 2025/11/9           |
| MXE EMI Receiver<br>Agilent       | N9038A                       | MY52260177  | 2024/9/19          | 2025/9/18           |
| Preamplifier<br>Agilent           | 83017A                       | MY39501357  | 2024/6/12          | 2025/6/11           |
| Preamplifier<br>EMCI              | EMC184045SE                  | 980788      | 2025/1/14          | 2026/1/13           |
| RF Coaxial Cable<br>EMCI          | EMC101G-KM-KM-2000           | 201254      | 2025/1/14          | 2026/1/13           |
|                                   | EMC101G-KM-KM-3000           | 201258      | 2025/1/14          | 2026/1/13           |
|                                   | EMC101G-KM-KM-5000           | 201261      | 2025/1/14          | 2026/1/13           |
|                                   | EMC104-SM-SM-1000            | 210103      | 2025/1/14          | 2026/1/13           |
|                                   | EMC104-SM-SM-3000            | 201241      | 2025/1/14          | 2026/1/13           |
|                                   | EMC104-SM-SM-9000            | 201244      | 2025/1/14          | 2026/1/13           |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A         | N/A                | N/A                 |
| Turn Table<br>Max-Full            | MFT-201SS                    | N/A         | N/A                | N/A                 |
| Turn Table Controller<br>Max-Full | MF-7802BS                    | MF780208676 | N/A                | N/A                 |

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/2/3 ~ 2025/2/5

### 4.2 Maximum Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

#### 4.3 Emission Bandwidth

| Description<br>Manufacturer     | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|------------|--------------------|---------------------|
| PXA Signal Analyzer<br>Keysight | N9030A                           | MY54490260 | 2024/7/17          | 2025/7/16           |
| Signal Analyzer<br>R&S          | FSV40                            | 101042     | 2024/9/12          | 2025/9/11           |
| Software                        | ADT_RF Test Software<br>V6.6.5.4 | N/A        | N/A                | N/A                 |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/1/23 ~ 2025/2/5

#### 4.4 In-Band Emission Mask

Refer to section 4.3 to get the tested date and information of the instruments.

#### 4.5 Occupied Bandwidth

Refer to section 4.3 to get the tested date and information of the instruments.

#### 4.6 Contention-based Protocol

| Description<br>Manufacturer             | Model No.      | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------------|----------------|------------|--------------------|---------------------|
| EXA Signal Analyzer<br>Agilent          | N9010A         | MY52220207 | 2023/12/28         | 2024/12/27          |
| MXG Vector Signal Generator<br>Agilent  | N5182B         | MY53050430 | 2024/11/29         | 2025/11/28          |
| MXG Vector Signal Generator<br>Keysight | N5182BU        | MY59360189 | 2024/11/29         | 2025/11/28          |
| Power Divider<br>Woken                  | 0120A02058001M | DCMD33WIK3 | 2024/4/29          | 2025/4/28           |
|                                         |                | DCMD33WIK7 | 2024/4/29          | 2025/4/28           |

Notes:

1. The test was performed in Adaptivity room.
2. Tested Date: 2024/12/17

#### 4.7 AC Power Conducted Emissions

| Description<br>Manufacturer              | Model No.     | Serial No.    | Calibrated<br>Date | Calibrated<br>Until |
|------------------------------------------|---------------|---------------|--------------------|---------------------|
| * Isolation Transformer<br>Erika Fiedler | D-65396       | 46            | 2023/4/20          | 2025/4/19           |
| 50 ohm terminal resistance<br>LYNICS     | 0900510       | E1-011484     | 2024/8/12          | 2025/8/11           |
| 50 ohm terminal resistance<br>SUHNER     | 65BNC-5001    | E1-010773     | 2024/3/13          | 2025/3/12           |
| EMI Test Receiver<br>R&S                 | ESCI          | 100412        | 2024/9/3           | 2025/9/2            |
| Fixed Attenuator<br>STI                  | STI02-2200-10 | NO.1          | 2024/9/12          | 2025/9/11           |
| Isolation Transformer<br>Erika Fiedler   | D-65396       | 017           | 2024/9/18          | 2025/9/17           |
| LISN<br>R&S                              | ENV216        | 100024        | 2024/9/6           | 2025/9/5            |
|                                          |               | 101196        | 2024/5/22          | 2025/5/21           |
|                                          |               | 101197        | 2024/7/11          | 2025/7/10           |
| LISN<br>Schwarzbeck                      | NNLK 8121     | 8121-731      | 2024/6/12          | 2025/6/11           |
|                                          |               | 8121-808      | 2024/4/26          | 2025/4/25           |
|                                          | NNLK 8129     | 8129229       | 2024/10/14         | 2025/10/13          |
| RF Coaxial Cable<br>PEWC                 | 5D-FB         | Cable-CO10-01 | 2024/2/7           | 2025/2/6            |
| Software<br>BVADT                        | Cond_V7.4.1.0 | N/A           | N/A                | N/A                 |
| V-LISN<br>Schwarzbeck                    | NNBL 8226-2   | 8226-142      | 2024/8/28          | 2025/8/27           |

##### Notes:

- \* The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA
- The test was performed in Linkou Conduction 10.
- Tested Date: 2024/11/8

#### 4.8 Unwanted Emissions below 1 GHz

| Description<br>Manufacturer                  | Model No.        | Serial No.   | Calibrated<br>Date | Calibrated<br>Until |
|----------------------------------------------|------------------|--------------|--------------------|---------------------|
| Bi_Log Antenna<br>Schwarzbeck                | VULB 9168        | 137          | 2024/10/9          | 2025/10/8           |
| Coupling / Decoupling Network<br>Schwarzbeck | CDNE-M2          | 00097        | 2024/5/28          | 2025/5/27           |
|                                              | CDNE-M3          | 00091        | 2024/5/28          | 2025/5/27           |
| MXE EMI Receiver<br>Agilent                  | N9038A           | MY51210129   | 2024/3/22          | 2025/3/21           |
| Preamplifier<br>Agilent                      | 8447D            | 2944A11064   | 2024/2/15          | 2025/2/14           |
| Preamplifier<br>EMCI                         | EMC001340        | 980269       | 2024/6/25          | 2025/6/24           |
| Radiating Loop Antenna<br>TESEQ              | RLA 6120-20      | 80002        | 2024/7/30          | 2025/7/29           |
| RF Coaxial Cable<br>Pacfic                   | 8D-FB            | Cable-CH6-02 | 2024/6/25          | 2025/6/24           |
| Signal Analyzer<br>R&S                       | FSV40            | 101544       | 2024/6/20          | 2025/6/19           |
| Software<br>BVADT                            | Radiated_V8.7.08 | N/A          | N/A                | N/A                 |
| Tower<br>ADT                                 | AT100            | 0306         | N/A                | N/A                 |
| Turn Table<br>ADT                            | TT100            | 0306         | N/A                | N/A                 |

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2024/11/8

#### 4.9 Unwanted Emissions above 1 GHz

| Description<br>Manufacturer       | Model No.                    | Serial No.  | Calibrated<br>Date       | Calibrated<br>Until      |
|-----------------------------------|------------------------------|-------------|--------------------------|--------------------------|
| Antenna Tower<br>Max-Full         | MFA-515BSN                   | N/A         | N/A                      | N/A                      |
| EXA Signal Analyzer<br>Agilent    | N9010A                       | MY52220207  | 2023/12/28<br>2024/12/30 | 2024/12/27<br>2025/12/29 |
| Horn Antenna<br>RFSPIN            | DRH18-E                      | 210104A18E  | 2024/11/10               | 2025/11/9                |
| Horn Antenna<br>Schwarzbeck       | BBHA 9170                    | 9170-1049   | 2024/11/10               | 2025/11/9                |
| MXE EMI Receiver<br>Agilent       | N9038A                       | MY52260177  | 2024/9/19                | 2025/9/18                |
| Preamplifier<br>Agilent           | 83017A                       | MY39501357  | 2024/6/12                | 2025/6/11                |
| Preamplifier<br>EMCI              | EMC184045SE                  | 980788      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
| RF Coaxial Cable<br>EMCI          | EMC101G-KM-KM-2000           | 201254      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
|                                   | EMC101G-KM-KM-3000           | 201258      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
|                                   | EMC101G-KM-KM-5000           | 201261      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
|                                   | EMC104-SM-SM-1000            | 210103      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
|                                   | EMC104-SM-SM-3000            | 201241      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
|                                   | EMC104-SM-SM-9000            | 201244      | 2024/1/15<br>2025/1/14   | 2025/1/14<br>2026/1/13   |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A         | N/A                      | N/A                      |
| Turn Table<br>Max-Full            | MFT-201SS                    | N/A         | N/A                      | N/A                      |
| Turn Table Controller<br>Max-Full | MF-7802BS                    | MF780208676 | N/A                      | N/A                      |

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2024/12/4 ~ 2025/1/22

## 5 Limits of Test Items

### 5.1 Maximum RF Output Power

| Operation Band                           | Equipment Class                              | Limit                 |
|------------------------------------------|----------------------------------------------|-----------------------|
|                                          |                                              | Maximum Average Power |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | 6ID: 15E 6 GHz Low-power indoor access point | EIRP 30 dBm           |

### 5.2 Maximum Power Spectral Density

| Operation Band                           | Equipment Class                              | Limit                 |
|------------------------------------------|----------------------------------------------|-----------------------|
|                                          |                                              | Maximum Power Density |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | 6ID: 15E 6 GHz Low-power indoor access point | EIRP 5 dBm/MHz        |

### 5.3 Emission Bandwidth

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

### 5.4 In-Band Emission Mask

| Test Item     | Frequencies (MHz)                                                                       | (X) dBc* <sup>1</sup> |
|---------------|-----------------------------------------------------------------------------------------|-----------------------|
| Emission Mask | At 1 MHz outside of channel edge                                                        | 20                    |
|               | At one channel bandwidth from the channel center* <sup>2</sup>                          | 28                    |
|               | At one- and one-half times the channel bandwidth away from channel center* <sup>3</sup> | 40                    |
|               | More than one- and one-half times the channel bandwidth                                 | 40                    |

\*<sup>1</sup> : The power spectral density must be suppressed by "x" dB

\*<sup>2</sup> : 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,

\*<sup>3</sup> : 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.

### 5.5 Occupied Bandwidth

The results are for reference only.

### 5.6 Contention-based Protocol

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

## 5.7 AC Power Conducted Emissions

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Notes:

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

## 5.8 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

## 5.9 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Frequencies (MHz)       | EIRP Limit             | Equivalent Field Strength at 3 m |
|-------------------------|------------------------|----------------------------------|
| 5925 MHz > F > 7125 MHz | Peak: -7 (dBm/MHz)     | 88.2 (dBuV/m)                    |
|                         | Average: -27 (dBm/MHz) | 68.2 (dBuV/m)                    |

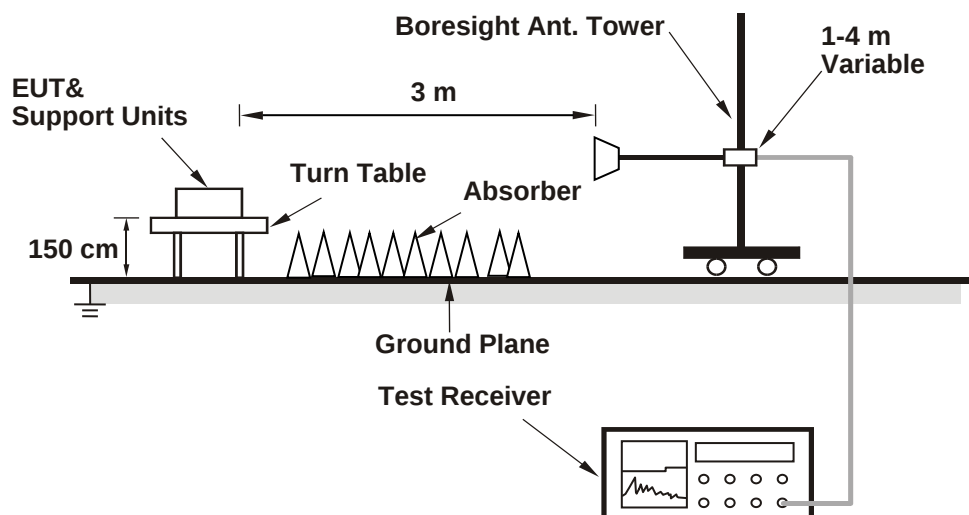
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

## 6 Test Arrangements

### 6.1 Maximum RF Output Power

#### 6.1.1 Test Setup



#### 6.1.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3,  $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV / m)} + \text{Correction Factor @ 3 m}$ .
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77 = -95.23 \text{ dB}$ ; where D is the measurement distance @3 m.

Spectrum analyzer setting as below:

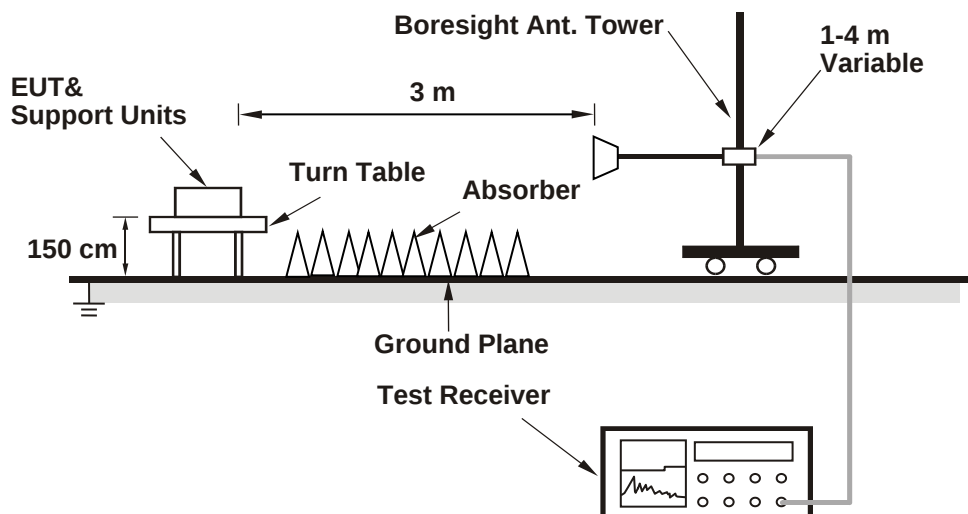
Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq 3$  MHz, Detector = RMS
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Note: When measuring power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

## 6.2 Maximum Power Spectral Density

### 6.2.1 Test Setup



### 6.2.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3,  $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV/m)} + \text{Correction Factor @ 3 m}$ .
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77$ ; where D is the measurement distance @3 m = -95.23 dB

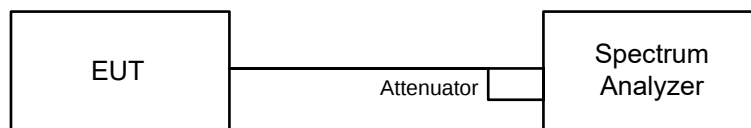
Spectrum analyzer setting as below:

#### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

## 6.3 Emission Bandwidth

### 6.3.1 Test Setup

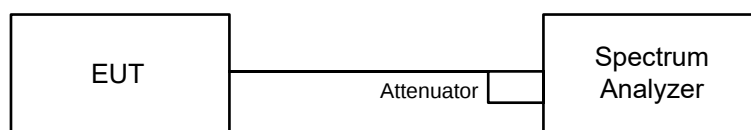


### 6.3.2 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

## 6.4 In-Band Emission Mask

### 6.4.1 Test Setup

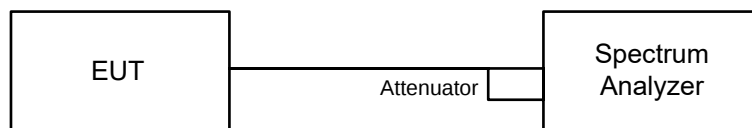


### 6.4.2 Test Procedure

- Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- Measure the power spectral density (for emissions mask reference) using the following procedure:
  - Set the span to encompass the entire 26 dB EBW of the signal.
  - Set RBW = same RBW used for 26 dB EBW measurement.
  - Set VBW  $\geq [3 \times \text{RBW}]$ .
  - Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
  - Sweep time = auto.
  - Detector = RMS (i.e., power averaging).
  - Trace average at least 100 traces in power averaging (rms) mode.
  - Use the peak search function on the instrument to find the peak of the spectrum.
- 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:
  - 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.)
  - Suppressed by 28 dB at one channel bandwidth from the channel center.
  - Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- Adjust the span to encompass the entire mask as necessary and clear trace.
- Trace average at least 100 traces in power averaging (rms) mode.
- Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

## 6.5 Occupied Bandwidth

### 6.5.1 Test Setup

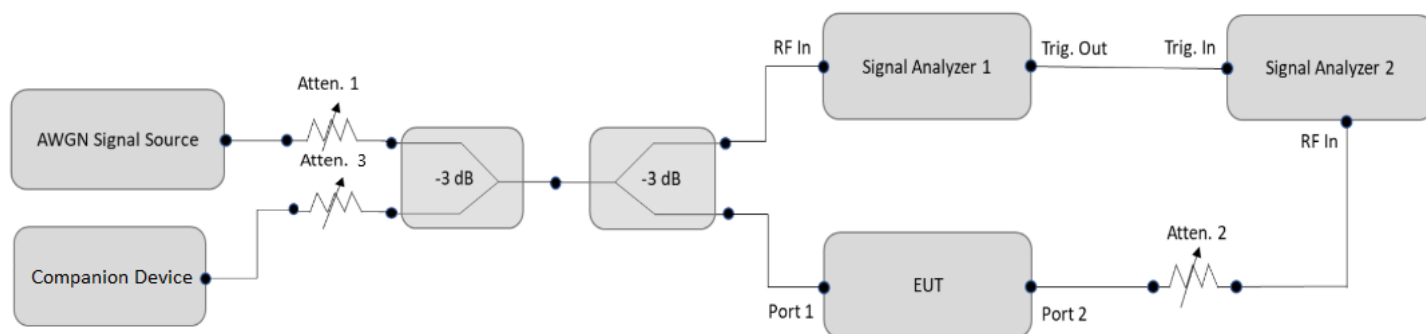


### 6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

## 6.6 Contention-based Protocol

### 6.6.1 Test Setup



### 6.6.2 Test Procedure

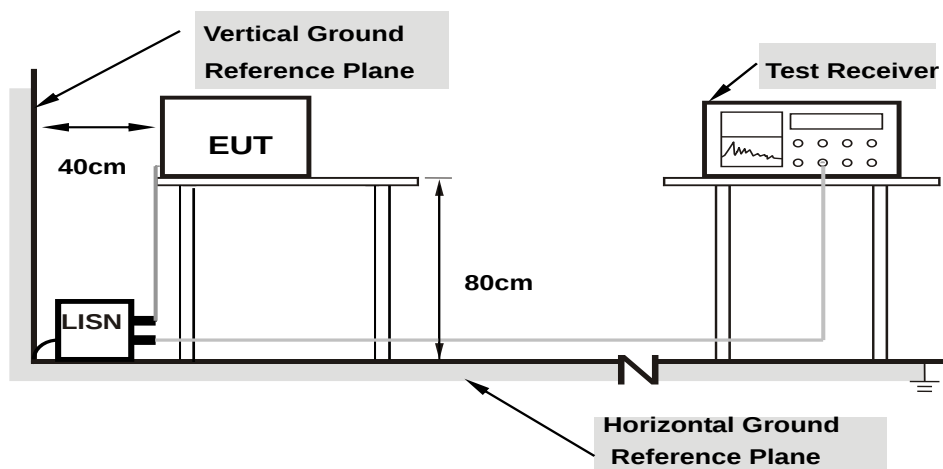
- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

| If                                        | Number of Tests                                                    | Placement of Incumbent Transmission                                        |
|-------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|
| $BW_{EUT} \leq BW_{Inc}$                  | Once                                                               | Same as EUT transmission                                                   |
| $BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$    | Once                                                               | Contained within $BW_{EUT}$                                                |
| $2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$ | Twice.<br>(Incumbent transmission is contained within $BW_{EUT}$ ) | Closely to the lower edge and upper edge of the EUT Channel                |
| $BW_{EUT} > 4x BW_{Inc}$                  | Three times                                                        | Closely to the lower edge ,in the middle and upper edge of the EUT Channel |

- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

## 6.7 AC Power Conducted Emissions

### 6.7.1 Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.7.2 Test Procedure

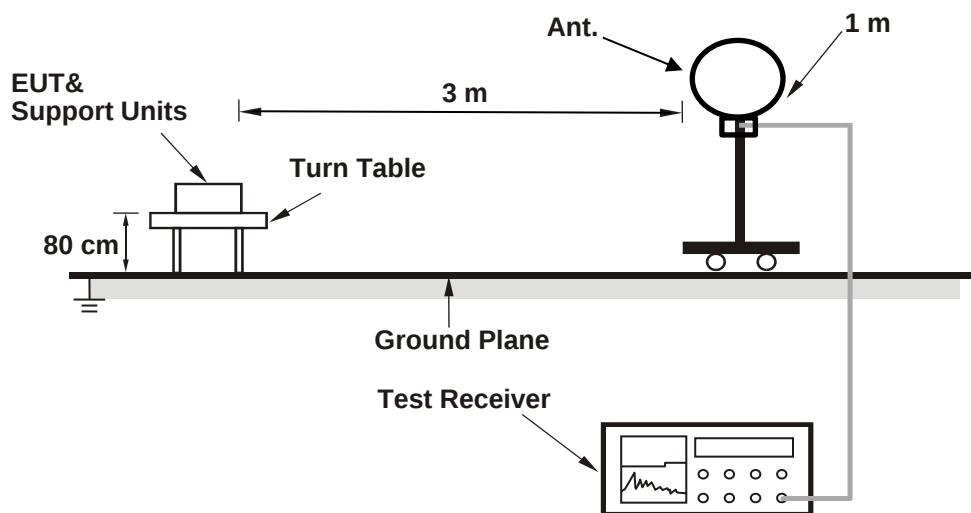
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

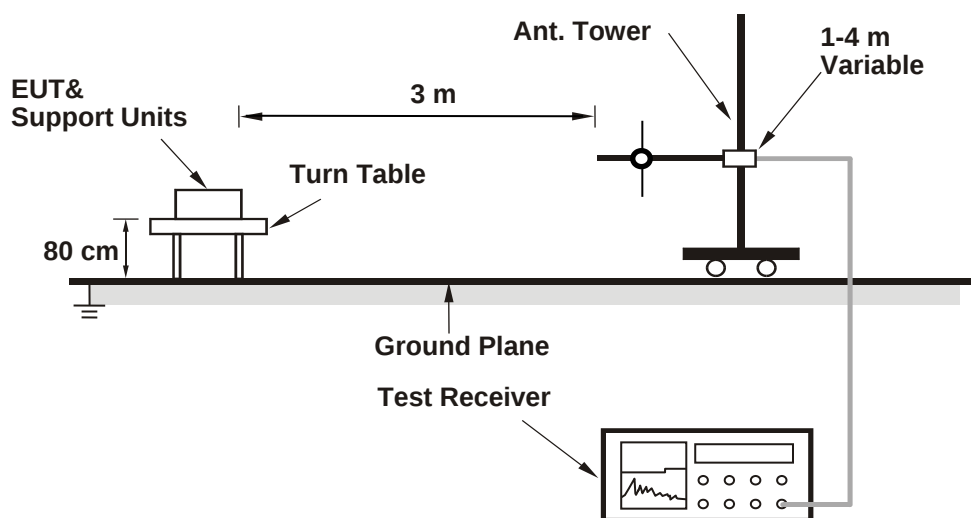
## 6.8 Unwanted Emissions below 1 GHz

### 6.8.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.8.2 Test Procedure

### For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

### For Radiated emission above 30 MHz

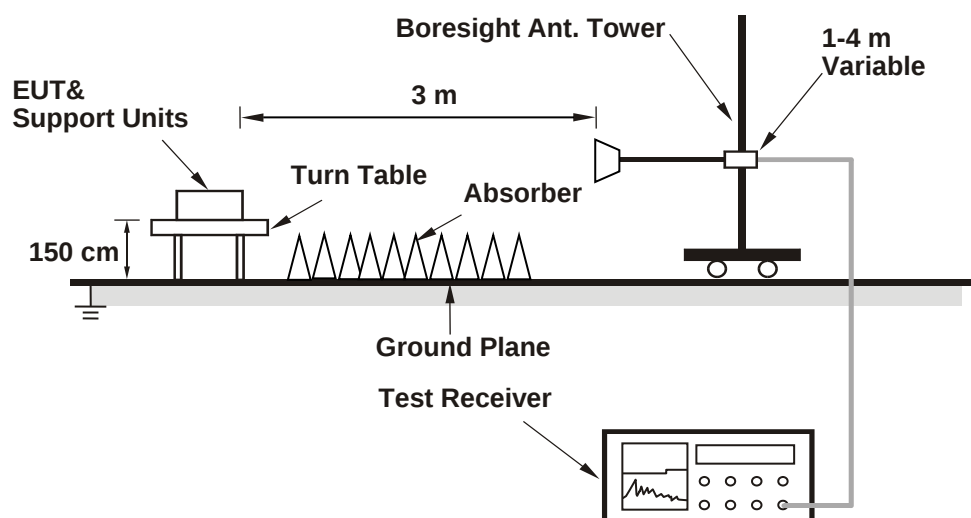
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

## 6.9 Unwanted Emissions above 1 GHz

### 6.9.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.9.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 Maximum RF Output Power

|              |                |                           |              |            |            |
|--------------|----------------|---------------------------|--------------|------------|------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Waydi Tuan |
|--------------|----------------|---------------------------|--------------|------------|------------|

#### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 1     | 5955              | 109.65                  | -95.23                 | 27.669    | 14.42      | 30               | Pass        |
| 45    | 6175              | 109.62                  | -95.23                 | 27.479    | 14.39      | 30               | Pass        |
| 93    | 6415              | 109.51                  | -95.23                 | 26.792    | 14.28      | 30               | Pass        |
| 97    | 6435              | 109.47                  | -95.23                 | 26.546    | 14.24      | 30               | Pass        |
| 105   | 6475              | 109.46                  | -95.23                 | 26.485    | 14.23      | 30               | Pass        |
| 113   | 6515              | 109.58                  | -95.23                 | 27.227    | 14.35      | 30               | Pass        |
| 117   | 6535              | 109.45                  | -95.23                 | 26.424    | 14.22      | 30               | Pass        |
| 149   | 6695              | 109.51                  | -95.23                 | 26.792    | 14.28      | 30               | Pass        |
| 181   | 6855              | 109.42                  | -95.23                 | 26.242    | 14.19      | 30               | Pass        |
| 185   | 6875              | 109.45                  | -95.23                 | 26.424    | 14.22      | 30               | Pass        |
| 209   | 6995              | 109.41                  | -95.23                 | 26.182    | 14.18      | 30               | Pass        |
| 229   | 7095              | 108.77                  | -95.23                 | 22.594    | 13.54      | 30               | Pass        |

#### 802.11ax (HE20) CDD

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 1     | 5955              | 109.55                  | -95.23                 | 27.04     | 14.32      | 30               | Pass        |
| 45    | 6175              | 109.44                  | -95.23                 | 26.363    | 14.21      | 30               | Pass        |
| 93    | 6415              | 109.27                  | -95.23                 | 25.351    | 14.04      | 30               | Pass        |
| 97    | 6435              | 109.17                  | -95.23                 | 24.774    | 13.94      | 30               | Pass        |
| 105   | 6475              | 109.25                  | -95.23                 | 25.235    | 14.02      | 30               | Pass        |
| 113   | 6515              | 109.13                  | -95.23                 | 24.547    | 13.90      | 30               | Pass        |
| 117   | 6535              | 109.16                  | -95.23                 | 24.717    | 13.93      | 30               | Pass        |
| 149   | 6695              | 109.46                  | -95.23                 | 26.485    | 14.23      | 30               | Pass        |
| 181   | 6855              | 109.45                  | -95.23                 | 26.424    | 14.22      | 30               | Pass        |
| 185   | 6875              | 109.33                  | -95.23                 | 25.704    | 14.10      | 30               | Pass        |
| 209   | 6995              | 109.55                  | -95.23                 | 27.04     | 14.32      | 30               | Pass        |
| 229   | 7095              | 109.38                  | -95.23                 | 26.002    | 14.15      | 30               | Pass        |

### 802.11ax (HE40) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 3     | 5965                 | 111.93                     | -95.23                    | 46.774    | 16.70      | 30                  | Pass        |
| 43    | 6165                 | 111.81                     | -95.23                    | 45.499    | 16.58      | 30                  | Pass        |
| 91    | 6405                 | 111.73                     | -95.23                    | 44.668    | 16.50      | 30                  | Pass        |
| 99    | 6445                 | 111.90                     | -95.23                    | 46.452    | 16.67      | 30                  | Pass        |
| 107   | 6485                 | 111.76                     | -95.23                    | 44.978    | 16.53      | 30                  | Pass        |
| 115   | 6525                 | 111.90                     | -95.23                    | 46.452    | 16.67      | 30                  | Pass        |
| 123   | 6565                 | 111.72                     | -95.23                    | 44.566    | 16.49      | 30                  | Pass        |
| 155   | 6725                 | 111.87                     | -95.23                    | 46.132    | 16.64      | 30                  | Pass        |
| 179   | 6845                 | 111.86                     | -95.23                    | 46.026    | 16.63      | 30                  | Pass        |
| 187   | 6885                 | 111.82                     | -95.23                    | 45.604    | 16.59      | 30                  | Pass        |
| 211   | 7005                 | 111.92                     | -95.23                    | 46.666    | 16.69      | 30                  | Pass        |
| 227   | 7085                 | 111.84                     | -95.23                    | 45.814    | 16.61      | 30                  | Pass        |

### 802.11ax (HE80) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 7     | 5985                 | 114.71                     | -95.23                    | 88.716    | 19.48      | 30                  | Pass        |
| 39    | 6145                 | 114.77                     | -95.23                    | 89.95     | 19.54      | 30                  | Pass        |
| 87    | 6385                 | 114.87                     | -95.23                    | 92.045    | 19.64      | 30                  | Pass        |
| 103   | 6465                 | 114.82                     | -95.23                    | 90.991    | 19.59      | 30                  | Pass        |
| 119   | 6545                 | 114.91                     | -95.23                    | 92.897    | 19.68      | 30                  | Pass        |
| 151   | 6705                 | 114.81                     | -95.23                    | 90.782    | 19.58      | 30                  | Pass        |
| 183   | 6865                 | 114.70                     | -95.23                    | 88.512    | 19.47      | 30                  | Pass        |
| 199   | 6945                 | 114.70                     | -95.23                    | 88.512    | 19.47      | 30                  | Pass        |
| 215   | 7025                 | 114.95                     | -95.23                    | 93.756    | 19.72      | 30                  | Pass        |

### 802.11ax (HE160) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 15    | 6025                 | 118.12                     | -95.23                    | 194.536   | 22.89      | 30                  | Pass        |
| 47    | 6185                 | 117.94                     | -95.23                    | 186.638   | 22.71      | 30                  | Pass        |
| 79    | 6345                 | 117.72                     | -95.23                    | 177.419   | 22.49      | 30                  | Pass        |
| 111   | 6505                 | 117.69                     | -95.23                    | 176.198   | 22.46      | 30                  | Pass        |
| 143   | 6665                 | 117.67                     | -95.23                    | 175.388   | 22.44      | 30                  | Pass        |
| 175   | 6825                 | 117.47                     | -95.23                    | 167.494   | 22.24      | 30                  | Pass        |
| 207   | 6985                 | 117.91                     | -95.23                    | 185.353   | 22.68      | 30                  | Pass        |

### 802.11be (EHT20) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 1     | 5955                 | 109.63                     | -95.23                    | 27.542    | 14.40      | 30                  | Pass        |
| 45    | 6175                 | 109.52                     | -95.23                    | 26.853    | 14.29      | 30                  | Pass        |
| 93    | 6415                 | 109.31                     | -95.23                    | 25.586    | 14.08      | 30                  | Pass        |
| 97    | 6435                 | 109.26                     | -95.23                    | 25.293    | 14.03      | 30                  | Pass        |
| 105   | 6475                 | 109.32                     | -95.23                    | 25.645    | 14.09      | 30                  | Pass        |
| 113   | 6515                 | 109.28                     | -95.23                    | 25.41     | 14.05      | 30                  | Pass        |
| 117   | 6535                 | 109.31                     | -95.23                    | 25.586    | 14.08      | 30                  | Pass        |
| 149   | 6695                 | 109.58                     | -95.23                    | 27.227    | 14.35      | 30                  | Pass        |
| 181   | 6855                 | 109.52                     | -95.23                    | 26.853    | 14.29      | 30                  | Pass        |
| 185   | 6875                 | 109.47                     | -95.23                    | 26.546    | 14.24      | 30                  | Pass        |
| 209   | 6995                 | 109.59                     | -95.23                    | 27.29     | 14.36      | 30                  | Pass        |
| 229   | 7095                 | 109.51                     | -95.23                    | 26.792    | 14.28      | 30                  | Pass        |

### 802.11be (EHT40) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 3     | 5965                 | 111.97                     | -95.23                    | 47.206    | 16.74      | 30                  | Pass        |
| 43    | 6165                 | 111.92                     | -95.23                    | 46.666    | 16.69      | 30                  | Pass        |
| 91    | 6405                 | 111.88                     | -95.23                    | 46.238    | 16.65      | 30                  | Pass        |
| 99    | 6445                 | 111.95                     | -95.23                    | 46.989    | 16.72      | 30                  | Pass        |
| 107   | 6485                 | 111.89                     | -95.23                    | 46.345    | 16.66      | 30                  | Pass        |
| 115   | 6525                 | 111.93                     | -95.23                    | 46.774    | 16.70      | 30                  | Pass        |
| 123   | 6565                 | 111.87                     | -95.23                    | 46.132    | 16.64      | 30                  | Pass        |
| 155   | 6725                 | 111.95                     | -95.23                    | 46.989    | 16.72      | 30                  | Pass        |
| 179   | 6845                 | 111.96                     | -95.23                    | 47.098    | 16.73      | 30                  | Pass        |
| 187   | 6885                 | 111.92                     | -95.23                    | 46.666    | 16.69      | 30                  | Pass        |
| 211   | 7005                 | 111.94                     | -95.23                    | 46.881    | 16.71      | 30                  | Pass        |
| 227   | 7085                 | 111.92                     | -95.23                    | 46.666    | 16.69      | 30                  | Pass        |

### 802.11be (EHT80) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 7     | 5985                 | 114.76                     | -95.23                    | 89.743    | 19.53      | 30                  | Pass        |
| 39    | 6145                 | 114.92                     | -95.23                    | 93.111    | 19.69      | 30                  | Pass        |
| 87    | 6385                 | 114.95                     | -95.23                    | 93.756    | 19.72      | 30                  | Pass        |
| 103   | 6465                 | 114.91                     | -95.23                    | 92.897    | 19.68      | 30                  | Pass        |
| 119   | 6545                 | 114.97                     | -95.23                    | 94.189    | 19.74      | 30                  | Pass        |
| 151   | 6705                 | 114.95                     | -95.23                    | 93.756    | 19.72      | 30                  | Pass        |
| 183   | 6865                 | 114.83                     | -95.23                    | 91.201    | 19.60      | 30                  | Pass        |
| 199   | 6945                 | 114.81                     | -95.23                    | 90.782    | 19.58      | 30                  | Pass        |
| 215   | 7025                 | 115.05                     | -95.23                    | 95.94     | 19.82      | 30                  | Pass        |

### 802.11be (EHT160) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 15    | 6025                 | 118.15                     | -95.23                    | 195.884   | 22.92      | 30                  | Pass        |
| 47    | 6185                 | 118.02                     | -95.23                    | 190.108   | 22.79      | 30                  | Pass        |
| 79    | 6345                 | 117.82                     | -95.23                    | 181.552   | 22.59      | 30                  | Pass        |
| 111   | 6505                 | 117.75                     | -95.23                    | 178.649   | 22.52      | 30                  | Pass        |
| 143   | 6665                 | 117.78                     | -95.23                    | 179.887   | 22.55      | 30                  | Pass        |
| 175   | 6825                 | 117.58                     | -95.23                    | 171.791   | 22.35      | 30                  | Pass        |
| 207   | 6985                 | 117.94                     | -95.23                    | 186.638   | 22.71      | 30                  | Pass        |

### 802.11be (EHT320) CDD

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 31    | 6105                 | 120.68                     | -95.23                    | 350.752   | 25.45      | 30                  | Pass        |
| 63    | 6265                 | 120.73                     | -95.23                    | 354.813   | 25.50      | 30                  | Pass        |
| 95    | 6425                 | 120.72                     | -95.23                    | 353.997   | 25.49      | 30                  | Pass        |
| 127   | 6585                 | 120.76                     | -95.23                    | 357.273   | 25.53      | 30                  | Pass        |
| 159   | 6745                 | 120.66                     | -95.23                    | 349.14    | 25.43      | 30                  | Pass        |
| 191   | 6905                 | 119.45                     | -95.23                    | 264.241   | 24.22      | 30                  | Pass        |

### 802.11ax (HE20) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 1     | 5955                 | 113.26                     | -95.23                    | 63.533    | 18.03      | 30                  | Pass        |
| 45    | 6175                 | 113.05                     | -95.23                    | 60.534    | 17.82      | 30                  | Pass        |
| 93    | 6415                 | 112.18                     | -95.23                    | 49.545    | 16.95      | 30                  | Pass        |
| 97    | 6435                 | 112.40                     | -95.23                    | 52.119    | 17.17      | 30                  | Pass        |
| 105   | 6475                 | 112.45                     | -95.23                    | 52.723    | 17.22      | 30                  | Pass        |
| 113   | 6515                 | 112.40                     | -95.23                    | 52.119    | 17.17      | 30                  | Pass        |
| 117   | 6535                 | 113.03                     | -95.23                    | 60.256    | 17.80      | 30                  | Pass        |
| 149   | 6695                 | 113.23                     | -95.23                    | 63.096    | 18.00      | 30                  | Pass        |
| 181   | 6855                 | 113.11                     | -95.23                    | 61.376    | 17.88      | 30                  | Pass        |
| 185   | 6875                 | 113.20                     | -95.23                    | 62.661    | 17.97      | 30                  | Pass        |
| 209   | 6995                 | 113.16                     | -95.23                    | 62.087    | 17.93      | 30                  | Pass        |
| 229   | 7095                 | 112.90                     | -95.23                    | 58.479    | 17.67      | 30                  | Pass        |

### 802.11ax (HE40) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 3     | 5965                 | 115.37                     | -95.23                    | 103.276   | 20.14      | 30                  | Pass        |
| 43    | 6165                 | 115.43                     | -95.23                    | 104.713   | 20.20      | 30                  | Pass        |
| 91    | 6405                 | 115.23                     | -95.23                    | 100       | 20.00      | 30                  | Pass        |
| 99    | 6445                 | 115.28                     | -95.23                    | 101.158   | 20.05      | 30                  | Pass        |
| 107   | 6485                 | 115.74                     | -95.23                    | 112.46    | 20.51      | 30                  | Pass        |
| 115   | 6525                 | 115.75                     | -95.23                    | 112.72    | 20.52      | 30                  | Pass        |
| 123   | 6565                 | 115.37                     | -95.23                    | 103.276   | 20.14      | 30                  | Pass        |
| 155   | 6725                 | 115.72                     | -95.23                    | 111.944   | 20.49      | 30                  | Pass        |
| 179   | 6845                 | 115.43                     | -95.23                    | 104.713   | 20.20      | 30                  | Pass        |
| 187   | 6885                 | 115.66                     | -95.23                    | 110.408   | 20.43      | 30                  | Pass        |
| 211   | 7005                 | 115.81                     | -95.23                    | 114.288   | 20.58      | 30                  | Pass        |
| 227   | 7085                 | 115.74                     | -95.23                    | 112.46    | 20.51      | 30                  | Pass        |

### 802.11ax (HE80) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 7     | 5985                 | 118.16                     | -95.23                    | 196.336   | 22.93      | 30                  | Pass        |
| 39    | 6145                 | 117.89                     | -95.23                    | 184.502   | 22.66      | 30                  | Pass        |
| 87    | 6385                 | 117.84                     | -95.23                    | 182.39    | 22.61      | 30                  | Pass        |
| 103   | 6465                 | 117.93                     | -95.23                    | 186.209   | 22.70      | 30                  | Pass        |
| 119   | 6545                 | 117.87                     | -95.23                    | 183.654   | 22.64      | 30                  | Pass        |
| 151   | 6705                 | 118.14                     | -95.23                    | 195.434   | 22.91      | 30                  | Pass        |
| 183   | 6865                 | 117.96                     | -95.23                    | 187.499   | 22.73      | 30                  | Pass        |
| 199   | 6945                 | 118.02                     | -95.23                    | 190.108   | 22.79      | 30                  | Pass        |
| 215   | 7025                 | 117.90                     | -95.23                    | 184.927   | 22.67      | 30                  | Pass        |

### 802.11ax (HE160) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 15    | 6025                 | 121.21                     | -95.23                    | 396.278   | 25.98      | 30                  | Pass        |
| 47    | 6185                 | 121.21                     | -95.23                    | 396.278   | 25.98      | 30                  | Pass        |
| 79    | 6345                 | 121.02                     | -95.23                    | 379.315   | 25.79      | 30                  | Pass        |
| 111   | 6505                 | 120.96                     | -95.23                    | 374.111   | 25.73      | 30                  | Pass        |
| 143   | 6665                 | 120.92                     | -95.23                    | 370.681   | 25.69      | 30                  | Pass        |
| 175   | 6825                 | 120.45                     | -95.23                    | 332.66    | 25.22      | 30                  | Pass        |
| 207   | 6985                 | 121.00                     | -95.23                    | 377.572   | 25.77      | 30                  | Pass        |

### 802.11be (EHT20) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 1     | 5955                 | 113.45                     | -95.23                    | 66.374    | 18.22      | 30                  | Pass        |
| 45    | 6175                 | 113.22                     | -95.23                    | 62.951    | 17.99      | 30                  | Pass        |
| 93    | 6415                 | 112.33                     | -95.23                    | 51.286    | 17.10      | 30                  | Pass        |
| 97    | 6435                 | 112.54                     | -95.23                    | 53.827    | 17.31      | 30                  | Pass        |
| 105   | 6475                 | 112.61                     | -95.23                    | 54.702    | 17.38      | 30                  | Pass        |
| 113   | 6515                 | 112.59                     | -95.23                    | 54.45     | 17.36      | 30                  | Pass        |
| 117   | 6535                 | 113.15                     | -95.23                    | 61.944    | 17.92      | 30                  | Pass        |
| 149   | 6695                 | 113.38                     | -95.23                    | 65.313    | 18.15      | 30                  | Pass        |
| 181   | 6855                 | 113.26                     | -95.23                    | 63.533    | 18.03      | 30                  | Pass        |
| 185   | 6875                 | 113.35                     | -95.23                    | 64.863    | 18.12      | 30                  | Pass        |
| 209   | 6995                 | 113.32                     | -95.23                    | 64.417    | 18.09      | 30                  | Pass        |
| 229   | 7095                 | 113.09                     | -95.23                    | 61.094    | 17.86      | 30                  | Pass        |

### 802.11be (EHT40) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 3     | 5965                 | 115.51                     | -95.23                    | 106.66    | 20.28      | 30                  | Pass        |
| 43    | 6165                 | 115.62                     | -95.23                    | 109.396   | 20.39      | 30                  | Pass        |
| 91    | 6405                 | 115.42                     | -95.23                    | 104.472   | 20.19      | 30                  | Pass        |
| 99    | 6445                 | 115.47                     | -95.23                    | 105.682   | 20.24      | 30                  | Pass        |
| 107   | 6485                 | 115.85                     | -95.23                    | 115.345   | 20.62      | 30                  | Pass        |
| 115   | 6525                 | 115.92                     | -95.23                    | 117.22    | 20.69      | 30                  | Pass        |
| 123   | 6565                 | 115.51                     | -95.23                    | 106.66    | 20.28      | 30                  | Pass        |
| 155   | 6725                 | 115.82                     | -95.23                    | 114.551   | 20.59      | 30                  | Pass        |
| 179   | 6845                 | 115.62                     | -95.23                    | 109.396   | 20.39      | 30                  | Pass        |
| 187   | 6885                 | 115.82                     | -95.23                    | 114.551   | 20.59      | 30                  | Pass        |
| 211   | 7005                 | 115.91                     | -95.23                    | 116.95    | 20.68      | 30                  | Pass        |
| 227   | 7085                 | 115.94                     | -95.23                    | 117.761   | 20.71      | 30                  | Pass        |

### 802.11be (EHT80) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 7     | 5985                 | 118.35                     | -95.23                    | 205.116   | 23.12      | 30                  | Pass        |
| 39    | 6145                 | 118.09                     | -95.23                    | 193.197   | 22.86      | 30                  | Pass        |
| 87    | 6385                 | 118.04                     | -95.23                    | 190.985   | 22.81      | 30                  | Pass        |
| 103   | 6465                 | 118.05                     | -95.23                    | 191.426   | 22.82      | 30                  | Pass        |
| 119   | 6545                 | 118.02                     | -95.23                    | 190.108   | 22.79      | 30                  | Pass        |
| 151   | 6705                 | 118.32                     | -95.23                    | 203.704   | 23.09      | 30                  | Pass        |
| 183   | 6865                 | 118.11                     | -95.23                    | 194.089   | 22.88      | 30                  | Pass        |
| 199   | 6945                 | 118.16                     | -95.23                    | 196.336   | 22.93      | 30                  | Pass        |
| 215   | 7025                 | 118.04                     | -95.23                    | 190.985   | 22.81      | 30                  | Pass        |

### 802.11be (EHT160) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 15    | 6025                 | 121.35                     | -95.23                    | 409.261   | 26.12      | 30                  | Pass        |
| 47    | 6185                 | 121.32                     | -95.23                    | 406.443   | 26.09      | 30                  | Pass        |
| 79    | 6345                 | 121.12                     | -95.23                    | 388.15    | 25.89      | 30                  | Pass        |
| 111   | 6505                 | 121.15                     | -95.23                    | 390.841   | 25.92      | 30                  | Pass        |
| 143   | 6665                 | 121.05                     | -95.23                    | 381.944   | 25.82      | 30                  | Pass        |
| 175   | 6825                 | 120.55                     | -95.23                    | 340.408   | 25.32      | 30                  | Pass        |
| 207   | 6985                 | 121.19                     | -95.23                    | 394.457   | 25.96      | 30                  | Pass        |

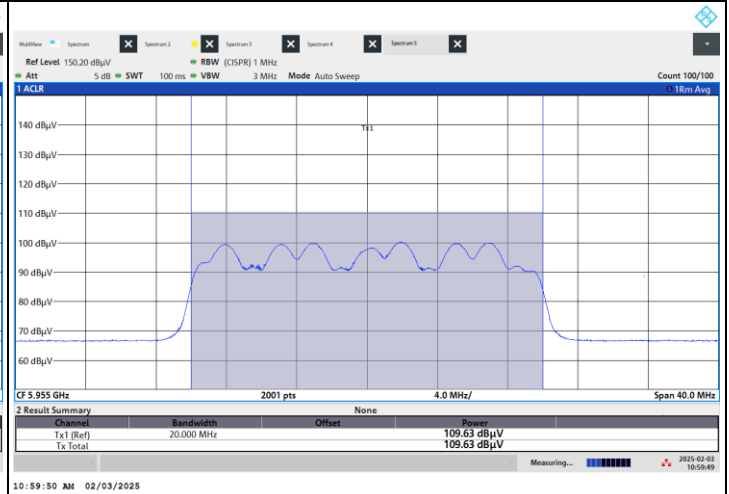
### 802.11be (EHT320) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction<br>Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------|------------|---------------------|-------------|
| 31    | 6105                 | 123.31                     | -95.23                    | 642.688   | 28.08      | 30                  | Pass        |
| 63    | 6265                 | 123.77                     | -95.23                    | 714.496   | 28.54      | 30                  | Pass        |
| 95    | 6425                 | 123.33                     | -95.23                    | 645.654   | 28.10      | 30                  | Pass        |
| 127   | 6585                 | 123.51                     | -95.23                    | 672.977   | 28.28      | 30                  | Pass        |
| 159   | 6745                 | 123.62                     | -95.23                    | 690.24    | 28.39      | 30                  | Pass        |
| 191   | 6905                 | 121.15                     | -95.23                    | 390.841   | 25.92      | 30                  | Pass        |

## Spectrum Plot of Maximum Value



802.11a CDD : CH 1



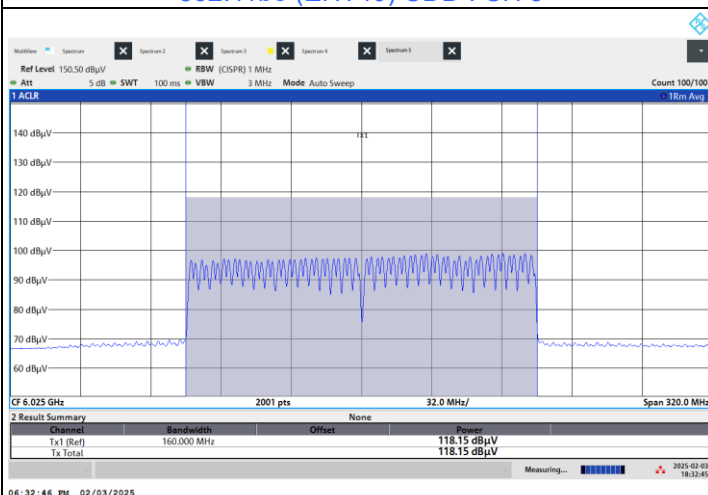
802.11be (EHT20) CDD : CH 1



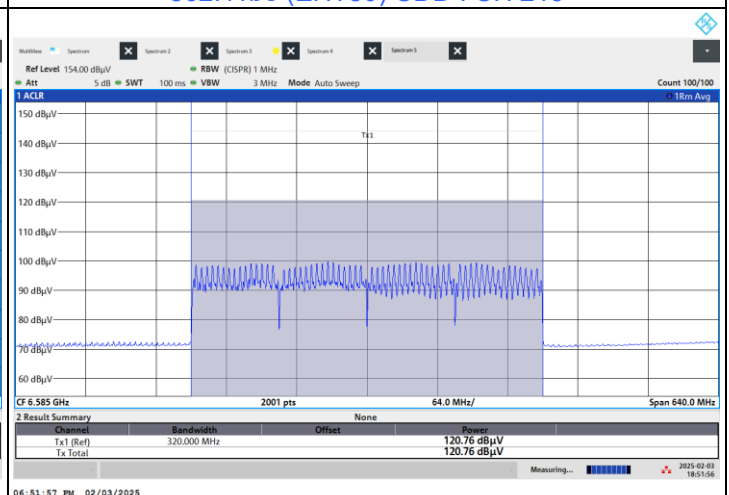
802.11be (EHT40) CDD : CH 3



802.11be (EHT80) CDD : CH 215



802.11be (EHT160) CDD : CH 15



802.11be (EHT320) CDD : CH 127

## Spectrum Plot of Maximum Value



802.11be (EHT20) Beamforming : CH 1



802.11be (EHT40) Beamforming : CH 227



802.11be (EHT80) Beamforming : CH 7



802.11be (EHT160) Beamforming : CH 15



802.11be (EHT320) Beamforming : CH 63

## 7.2 Maximum Power Spectral Density

|              |                |                           |              |            |            |
|--------------|----------------|---------------------------|--------------|------------|------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Waydi Tuan |
|--------------|----------------|---------------------------|--------------|------------|------------|

### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------|------------------------|--------------------|--------------------------|-------------|
| 1     | 5955              | 100.21                  | -95.23                 | 4.98               | 5                        | Pass        |
| 45    | 6175              | 100.19                  | -95.23                 | 4.96               | 5                        | Pass        |
| 93    | 6415              | 100.19                  | -95.23                 | 4.96               | 5                        | Pass        |
| 97    | 6435              | 100.15                  | -95.23                 | 4.92               | 5                        | Pass        |
| 105   | 6475              | 100.15                  | -95.23                 | 4.92               | 5                        | Pass        |
| 113   | 6515              | 100.19                  | -95.23                 | 4.96               | 5                        | Pass        |
| 117   | 6535              | 100.18                  | -95.23                 | 4.95               | 5                        | Pass        |
| 149   | 6695              | 100.18                  | -95.23                 | 4.95               | 5                        | Pass        |
| 181   | 6855              | 100.16                  | -95.23                 | 4.93               | 5                        | Pass        |
| 185   | 6875              | 100.18                  | -95.23                 | 4.95               | 5                        | Pass        |
| 209   | 6995              | 100.16                  | -95.23                 | 4.93               | 5                        | Pass        |
| 229   | 7095              | 100.12                  | -95.23                 | 4.89               | 5                        | Pass        |

### 802.11be (EHT20) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction Factor<br>(dB) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------|
| 1     | 5955                 | 100.21                     | -95.23                    | 4.98                  | 5                           | Pass        |
| 45    | 6175                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 93    | 6415                 | 100.12                     | -95.23                    | 4.89                  | 5                           | Pass        |
| 97    | 6435                 | 100.06                     | -95.23                    | 4.83                  | 5                           | Pass        |
| 105   | 6475                 | 100.08                     | -95.23                    | 4.85                  | 5                           | Pass        |
| 113   | 6515                 | 100.07                     | -95.23                    | 4.84                  | 5                           | Pass        |
| 117   | 6535                 | 100.12                     | -95.23                    | 4.89                  | 5                           | Pass        |
| 149   | 6695                 | 100.11                     | -95.23                    | 4.88                  | 5                           | Pass        |
| 181   | 6855                 | 100.15                     | -95.23                    | 4.92                  | 5                           | Pass        |
| 185   | 6875                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 209   | 6995                 | 100.17                     | -95.23                    | 4.94                  | 5                           | Pass        |
| 229   | 7095                 | 100.10                     | -95.23                    | 4.87                  | 5                           | Pass        |

### 802.11be (EHT40) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction Factor<br>(dB) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------|
| 3     | 5965                 | 100.05                     | -95.23                    | 4.82                  | 5                           | Pass        |
| 43    | 6165                 | 100.15                     | -95.23                    | 4.92                  | 5                           | Pass        |
| 91    | 6405                 | 100.08                     | -95.23                    | 4.85                  | 5                           | Pass        |
| 99    | 6445                 | 100.09                     | -95.23                    | 4.86                  | 5                           | Pass        |
| 107   | 6485                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 115   | 6525                 | 100.19                     | -95.23                    | 4.96                  | 5                           | Pass        |
| 123   | 6565                 | 100.05                     | -95.23                    | 4.82                  | 5                           | Pass        |
| 155   | 6725                 | 100.17                     | -95.23                    | 4.94                  | 5                           | Pass        |
| 179   | 6845                 | 100.09                     | -95.23                    | 4.86                  | 5                           | Pass        |
| 187   | 6885                 | 100.17                     | -95.23                    | 4.94                  | 5                           | Pass        |
| 211   | 7005                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 227   | 7085                 | 100.21                     | -95.23                    | 4.98                  | 5                           | Pass        |

### 802.11be (EHT80) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction Factor<br>(dB) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------|
| 7     | 5985                 | 100.19                     | -95.23                    | 4.96                  | 5                           | Pass        |
| 39    | 6145                 | 100.12                     | -95.23                    | 4.89                  | 5                           | Pass        |
| 87    | 6385                 | 100.05                     | -95.23                    | 4.82                  | 5                           | Pass        |
| 103   | 6465                 | 100.06                     | -95.23                    | 4.83                  | 5                           | Pass        |
| 119   | 6545                 | 100.05                     | -95.23                    | 4.82                  | 5                           | Pass        |
| 151   | 6705                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 183   | 6865                 | 100.08                     | -95.23                    | 4.85                  | 5                           | Pass        |
| 199   | 6945                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 215   | 7025                 | 100.05                     | -95.23                    | 4.82                  | 5                           | Pass        |

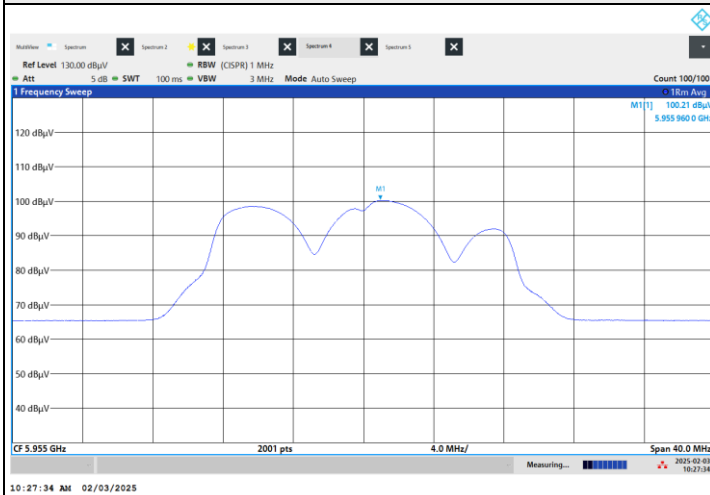
### 802.11be (EHT160) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction Factor<br>(dB) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------|
| 15    | 6025                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 47    | 6185                 | 100.15                     | -95.23                    | 4.92                  | 5                           | Pass        |
| 79    | 6345                 | 100.11                     | -95.23                    | 4.88                  | 5                           | Pass        |
| 111   | 6505                 | 100.12                     | -95.23                    | 4.89                  | 5                           | Pass        |
| 143   | 6665                 | 100.06                     | -95.23                    | 4.83                  | 5                           | Pass        |
| 175   | 6825                 | 100.03                     | -95.23                    | 4.80                  | 5                           | Pass        |
| 207   | 6985                 | 100.13                     | -95.23                    | 4.90                  | 5                           | Pass        |

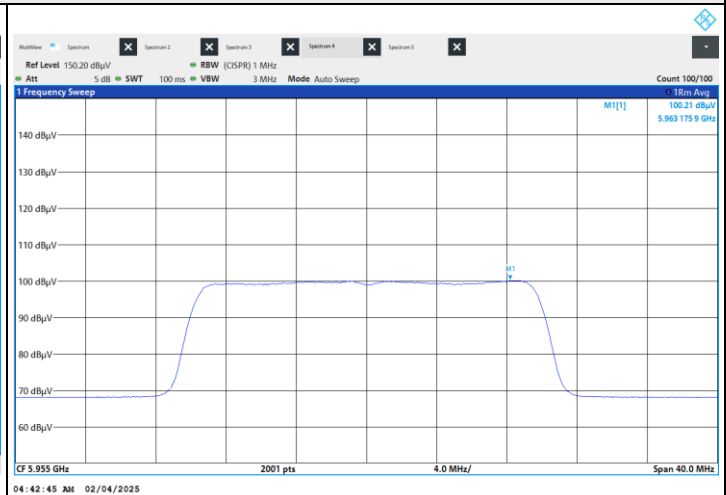
### 802.11be (EHT320) Beamforming

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction Factor<br>(dB) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------|
| 31    | 6105                 | 99.65                      | -95.23                    | 4.42                  | 5                           | Pass        |
| 63    | 6265                 | 100.19                     | -95.23                    | 4.96                  | 5                           | Pass        |
| 95    | 6425                 | 100.12                     | -95.23                    | 4.89                  | 5                           | Pass        |
| 127   | 6585                 | 100.16                     | -95.23                    | 4.93                  | 5                           | Pass        |
| 159   | 6745                 | 100.18                     | -95.23                    | 4.95                  | 5                           | Pass        |
| 191   | 6905                 | 97.82                      | -95.23                    | 2.59                  | 5                           | Pass        |

## Spectrum Plot of Maximum Value



802.11a CDD : CH 1



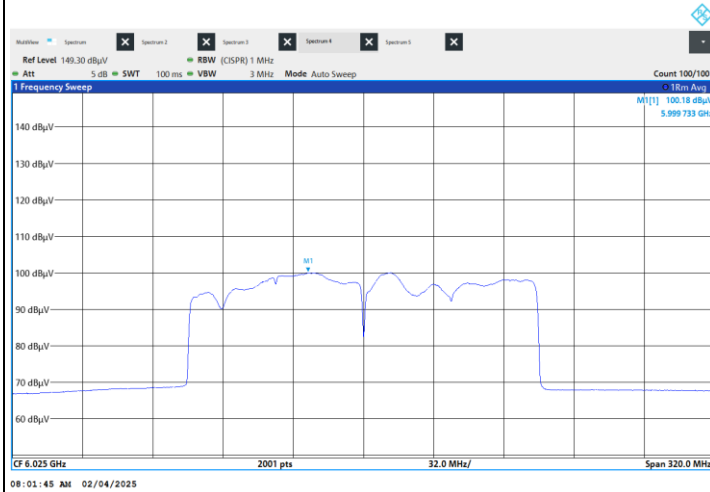
802.11be (EHT20) Beamforming : CH 1



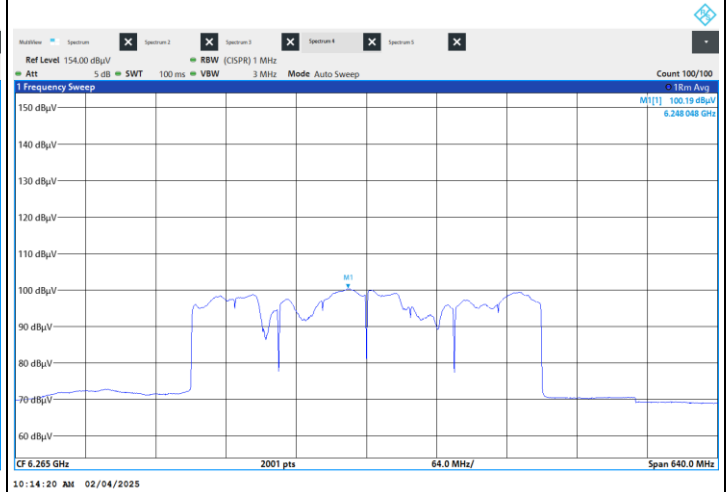
802.11be (EHT40) Beamforming : CH 227



802.11be (EHT80) Beamforming : CH 7



802.11be (EHT160) Beamforming : CH 15



802.11be (EHT320) Beamforming : CH 63

### 7.3 Emission Bandwidth

|              |                |                           |              |            |            |
|--------------|----------------|---------------------------|--------------|------------|------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Waydi Tuan |
|--------------|----------------|---------------------------|--------------|------------|------------|

#### 802.11a

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |         |         |         | Maximum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0              | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 1       | 5955            | 21.87                | 21.87   | 21.96   | 21.97   | 320                 | Pass        |
| 45      | 6175            | 21.84                | 22.12   | 21.82   | 22.08   | 320                 | Pass        |
| 93      | 6415            | 21.97                | 22.01   | 22.03   | 22.03   | 320                 | Pass        |
| 97      | 6435            | 21.99                | 21.90   | 21.92   | 21.89   | 320                 | Pass        |
| 105     | 6475            | 22.02                | 22.00   | 21.89   | 21.91   | 320                 | Pass        |
| 113     | 6515            | 21.97                | 21.95   | 22.01   | 22.01   | 320                 | Pass        |
| 117     | 6535            | 21.89                | 21.96   | 22.01   | 21.92   | 320                 | Pass        |
| 149     | 6695            | 22.05                | 21.98   | 21.97   | 21.95   | 320                 | Pass        |
| 181     | 6855            | 21.93                | 21.88   | 21.84   | 21.96   | 320                 | Pass        |
| 185     | 6875            | 22.00                | 22.08   | 21.78   | 21.88   | 320                 | Pass        |
| 209     | 6995            | 21.95                | 21.83   | 21.85   | 21.59   | 320                 | Pass        |
| 229     | 7095            | 21.96                | 21.71   | 22.04   | 21.87   | 320                 | Pass        |

#### 802.11be (EHT20)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |         |         |         | Maximum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0              | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 1       | 5955            | 21.58                | 21.79   | 21.66   | 21.88   | 320                 | Pass        |
| 45      | 6175            | 21.66                | 21.86   | 21.59   | 21.61   | 320                 | Pass        |
| 93      | 6415            | 21.50                | 21.90   | 21.94   | 21.61   | 320                 | Pass        |
| 97      | 6435            | 21.64                | 21.79   | 21.76   | 21.83   | 320                 | Pass        |
| 105     | 6475            | 21.78                | 21.95   | 21.76   | 21.79   | 320                 | Pass        |
| 113     | 6515            | 21.75                | 21.54   | 21.92   | 21.81   | 320                 | Pass        |
| 117     | 6535            | 21.74                | 21.83   | 21.52   | 21.72   | 320                 | Pass        |
| 149     | 6695            | 21.74                | 21.75   | 21.70   | 21.73   | 320                 | Pass        |
| 181     | 6855            | 21.65                | 21.79   | 21.75   | 21.42   | 320                 | Pass        |
| 185     | 6875            | 21.94                | 21.69   | 21.85   | 21.82   | 320                 | Pass        |
| 209     | 6995            | 21.69                | 21.32   | 21.64   | 21.54   | 320                 | Pass        |
| 229     | 7095            | 21.51                | 21.97   | 21.83   | 21.79   | 320                 | Pass        |

### 802.11be (EHT40)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |         |         |         | Maximum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0              | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 3       | 5965            | 40.85                | 41.18   | 41.09   | 41.07   | 320                 | Pass        |
| 43      | 6165            | 40.96                | 40.88   | 41.17   | 41.40   | 320                 | Pass        |
| 91      | 6405            | 41.04                | 41.09   | 40.96   | 41.05   | 320                 | Pass        |
| 99      | 6445            | 41.04                | 40.93   | 41.23   | 40.87   | 320                 | Pass        |
| 107     | 6485            | 41.06                | 40.97   | 41.05   | 41.38   | 320                 | Pass        |
| 115     | 6525            | 41.07                | 41.21   | 41.26   | 41.11   | 320                 | Pass        |
| 123     | 6565            | 41.18                | 41.14   | 41.20   | 40.94   | 320                 | Pass        |
| 155     | 6725            | 41.10                | 40.94   | 41.02   | 40.86   | 320                 | Pass        |
| 179     | 6845            | 40.77                | 40.97   | 41.06   | 40.95   | 320                 | Pass        |
| 187     | 6885            | 41.13                | 41.10   | 40.87   | 41.26   | 320                 | Pass        |
| 211     | 7005            | 40.65                | 40.81   | 40.57   | 40.52   | 320                 | Pass        |
| 227     | 7085            | 40.97                | 40.88   | 40.81   | 41.13   | 320                 | Pass        |

### 802.11be (EHT80)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |         |         |         | Maximum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0              | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 7       | 5985            | 82.34                | 82.72   | 82.57   | 82.85   | 320                 | Pass        |
| 39      | 6145            | 82.79                | 82.79   | 82.84   | 83.00   | 320                 | Pass        |
| 87      | 6385            | 82.84                | 82.60   | 82.89   | 83.25   | 320                 | Pass        |
| 103     | 6465            | 82.69                | 82.95   | 82.71   | 82.83   | 320                 | Pass        |
| 119     | 6545            | 82.73                | 83.05   | 82.91   | 82.79   | 320                 | Pass        |
| 151     | 6705            | 82.64                | 82.64   | 82.82   | 82.94   | 320                 | Pass        |
| 183     | 6865            | 82.55                | 82.60   | 82.54   | 82.59   | 320                 | Pass        |
| 199     | 6945            | 82.11                | 82.83   | 82.63   | 82.76   | 320                 | Pass        |
| 215     | 7025            | 82.67                | 82.61   | 82.41   | 82.48   | 320                 | Pass        |

### 802.11be (EHT160)

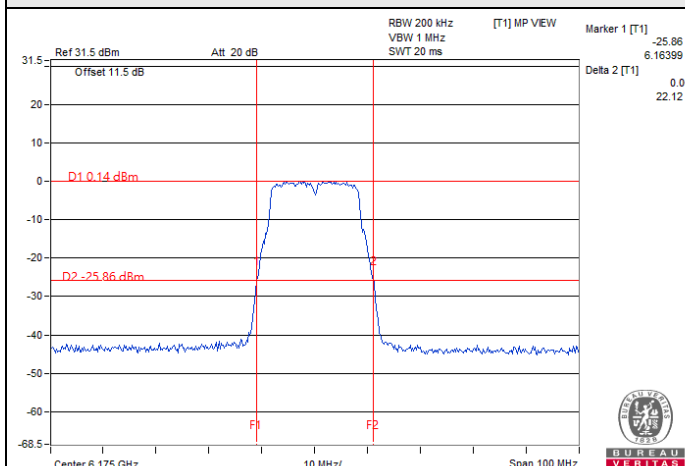
| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |         |         |         | Maximum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0              | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 15      | 6025            | 164.42               | 165.74  | 165.48  | 165.11  | 320                 | Pass        |
| 47      | 6185            | 165.42               | 165.61  | 165.42  | 165.87  | 320                 | Pass        |
| 79      | 6345            | 166.01               | 166.52  | 166.36  | 165.45  | 320                 | Pass        |
| 111     | 6505            | 166.01               | 167.10  | 166.01  | 165.81  | 320                 | Pass        |
| 143     | 6665            | 165.25               | 166.81  | 165.92  | 166.20  | 320                 | Pass        |
| 175     | 6825            | 167.02               | 166.31  | 166.22  | 166.42  | 320                 | Pass        |
| 207     | 6985            | 165.13               | 165.09  | 166.10  | 165.60  | 320                 | Pass        |

### 802.11be (EHT320)

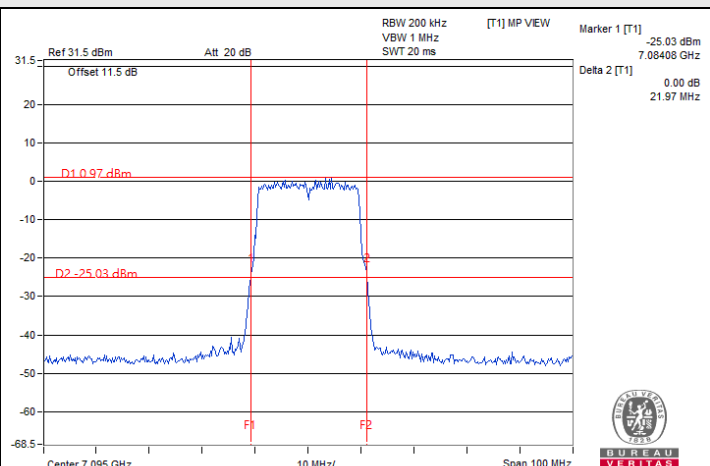
| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |         |         |         | Maximum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0              | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 31      | 6105            | 340.79               | 344.61  | 344.00  | 385.85  | 320                 | Note        |
| 63      | 6265            | 328.96               | 399.81  | 331.68  | 372.02  | 320                 | Note        |
| 95      | 6425            | 335.29               | 342.08  | 331.77  | 330.89  | 320                 | Note        |
| 127     | 6585            | 352.55               | 331.15  | 330.49  | 352.85  | 320                 | Note        |
| 159     | 6745            | 349.37               | 345.59  | 348.55  | 347.94  | 320                 | Note        |
| 191     | 6905            | 331.35               | 331.20  | 330.39  | 331.15  | 320                 | Note        |

Note: For channels with a nominal bandwidth of 320 MHz, compliance is demonstrated by way of the 99% BW.

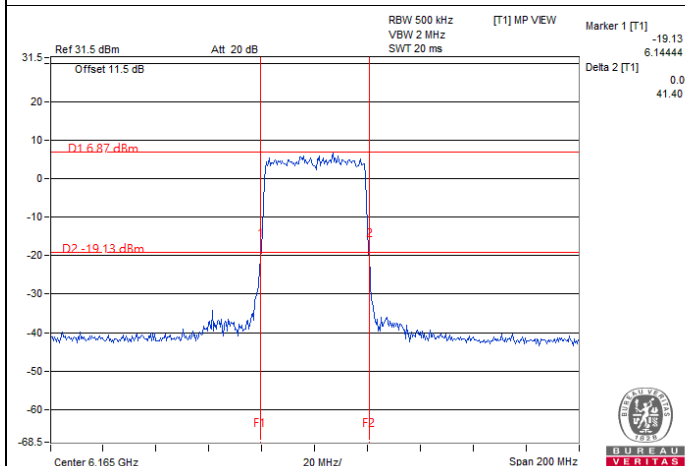
# Spectrum Plot of Maximum Value



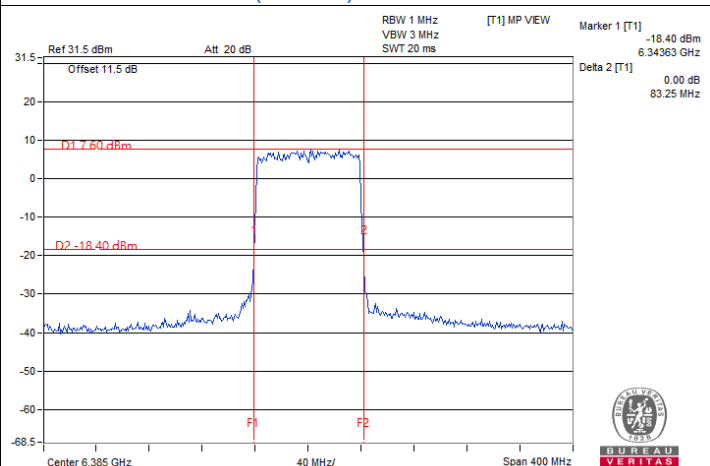
802.11a / Chain 1 : CH 45



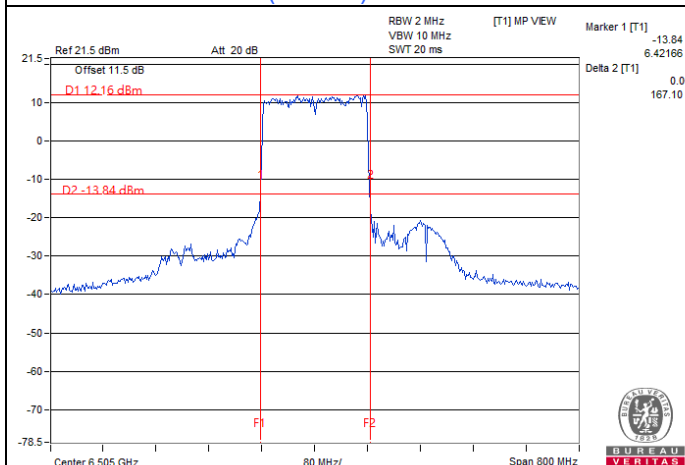
802.11be (EHT20) / Chain 1 : CH 229



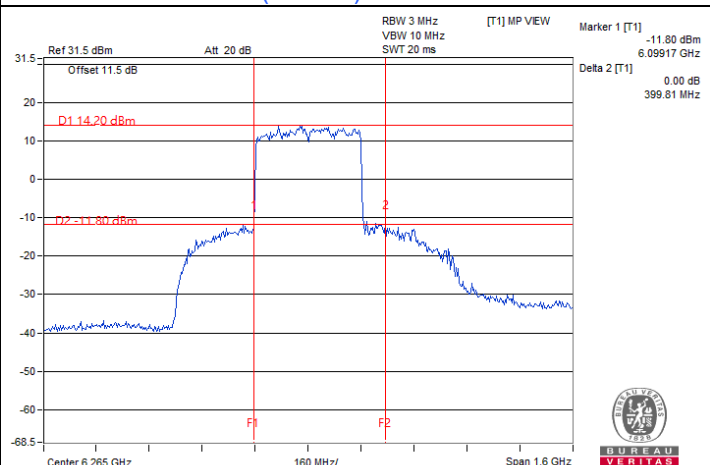
802.11be (EHT40) / Chain 3 : CH 43



802.11be (EHT80) / Chain 3 : CH 87



802.11be (EHT160) / Chain 1 : CH 111

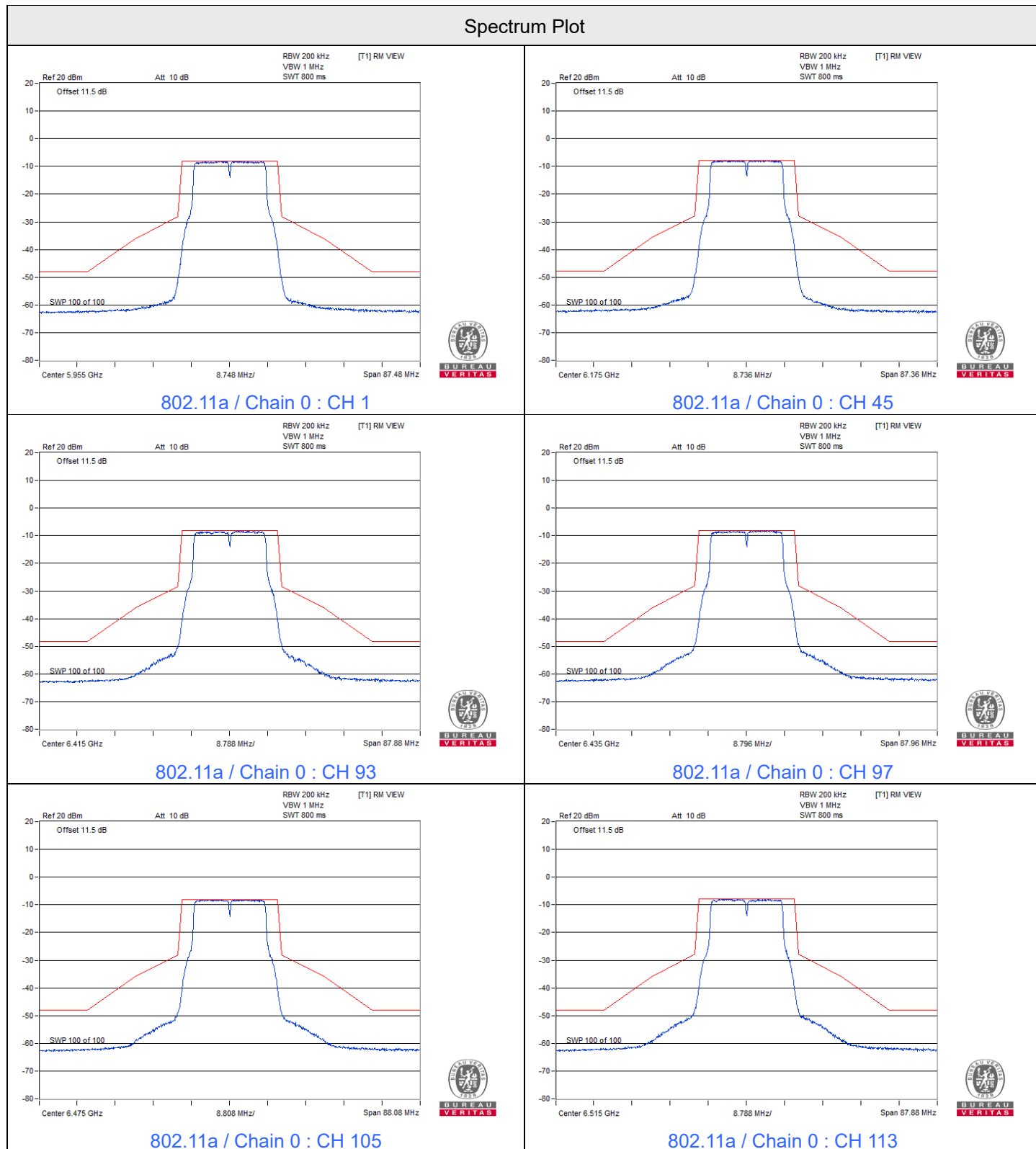


802.11be (EHT320) / Chain 1 : CH 63

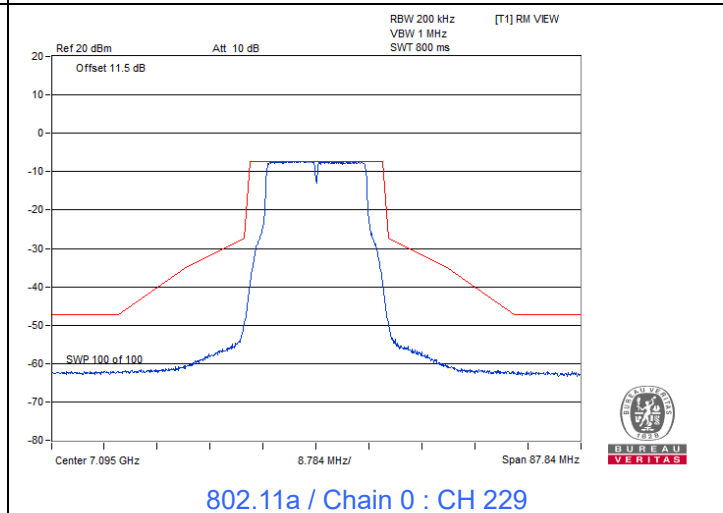
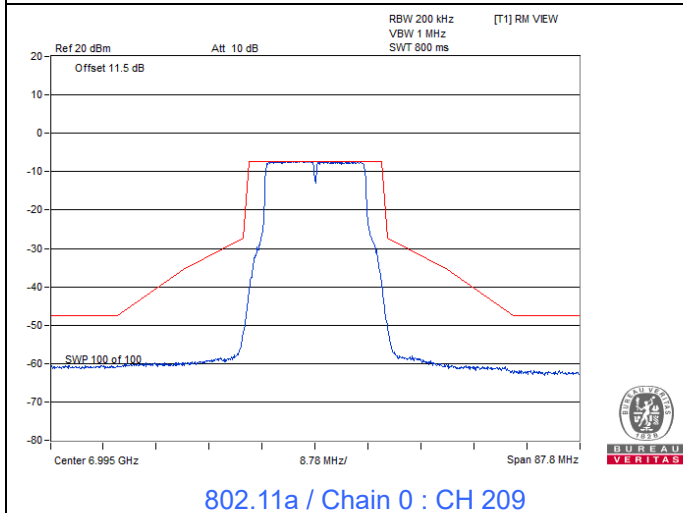
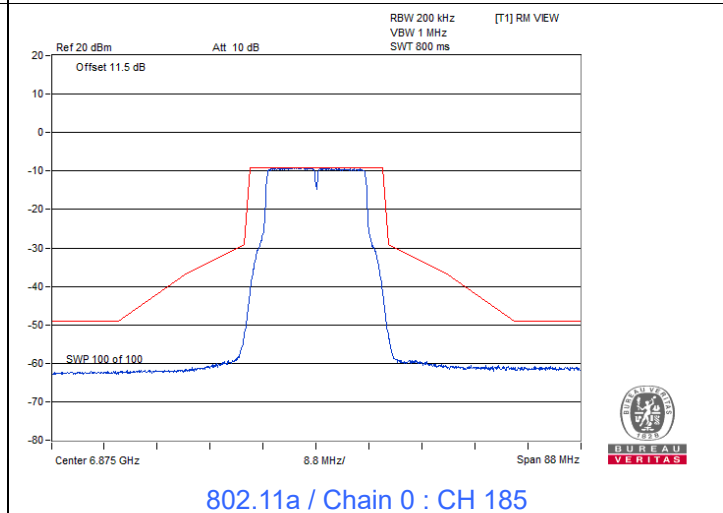
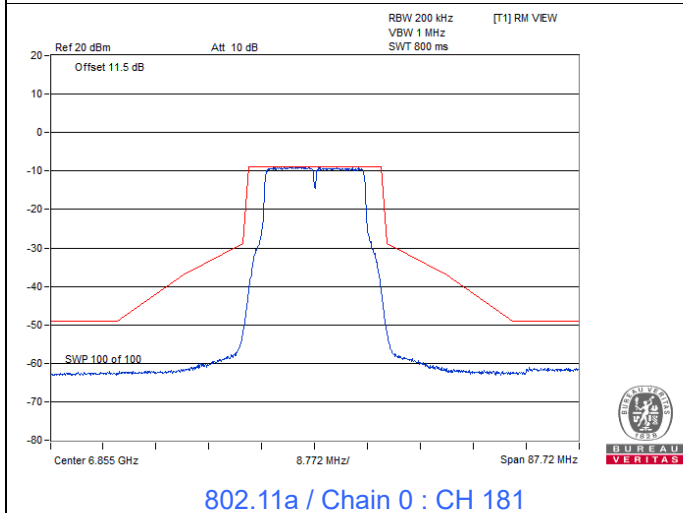
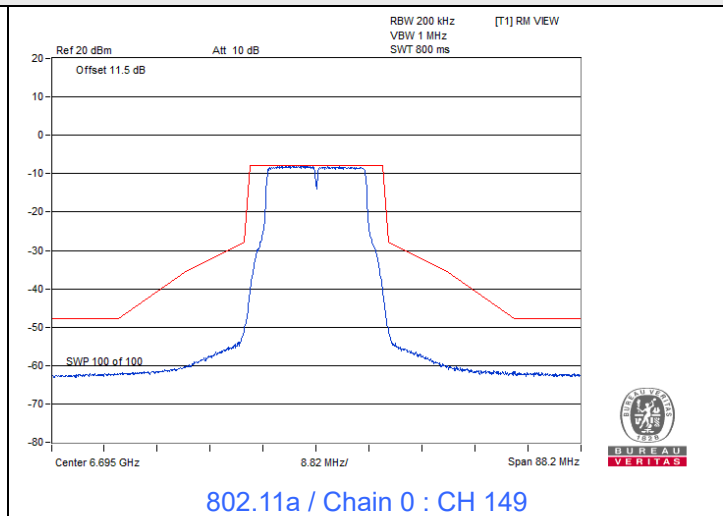
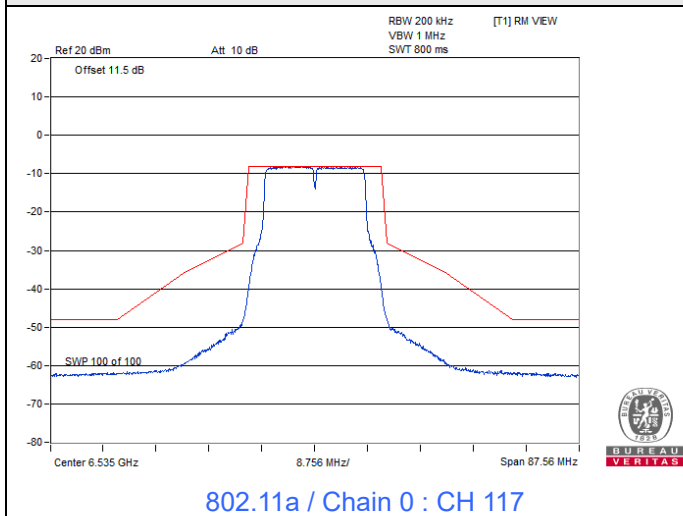
## 7.4 In-Band Emission Mask

|              |                |                           |              |            |            |
|--------------|----------------|---------------------------|--------------|------------|------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Waydi Tuan |
|--------------|----------------|---------------------------|--------------|------------|------------|

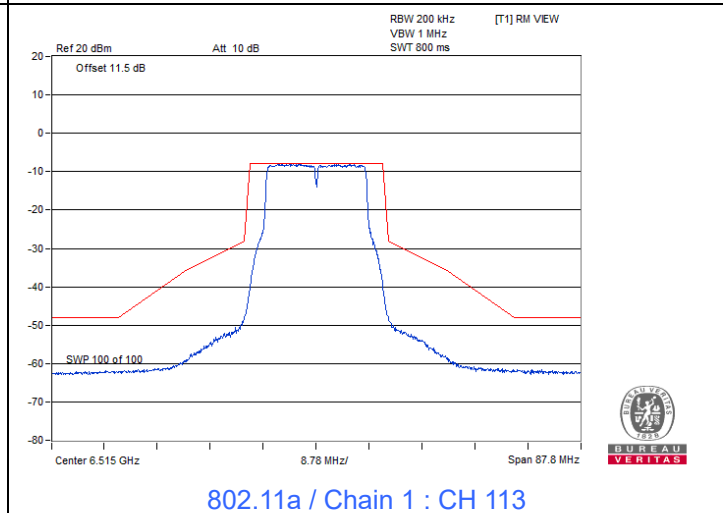
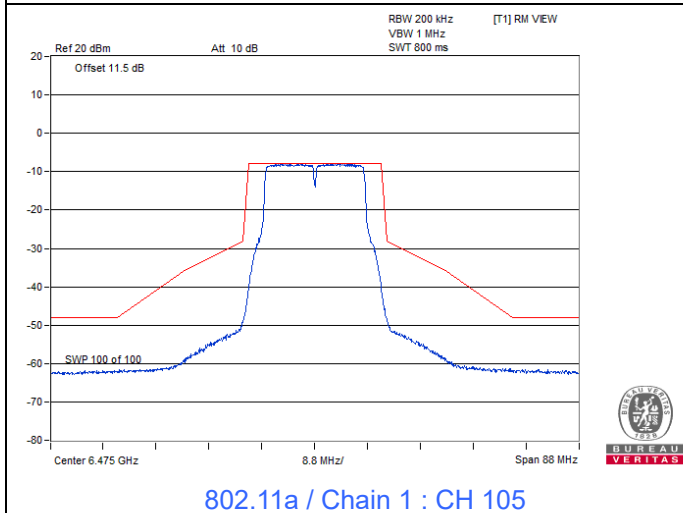
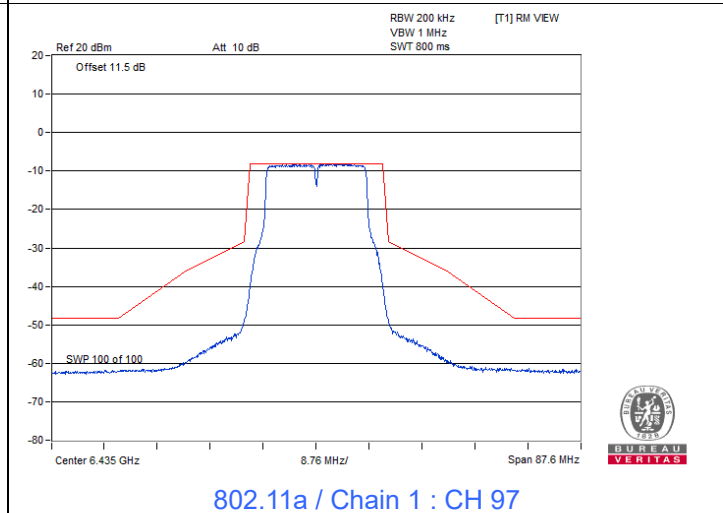
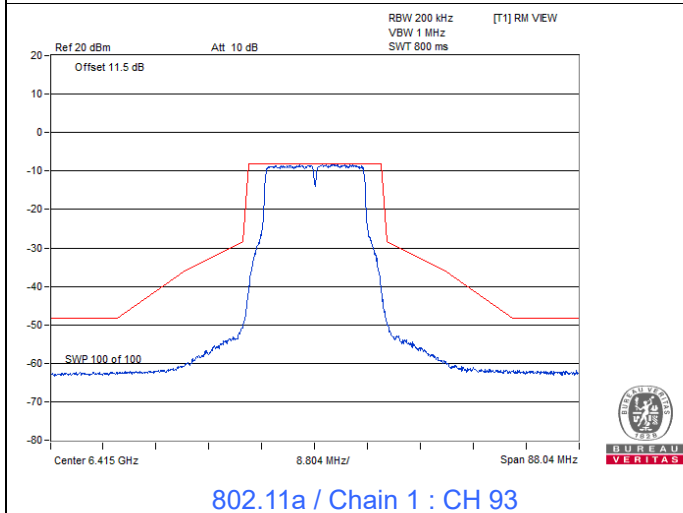
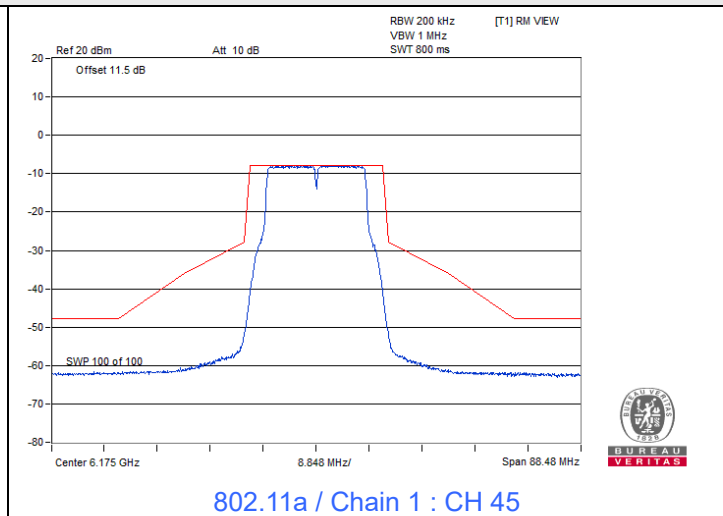
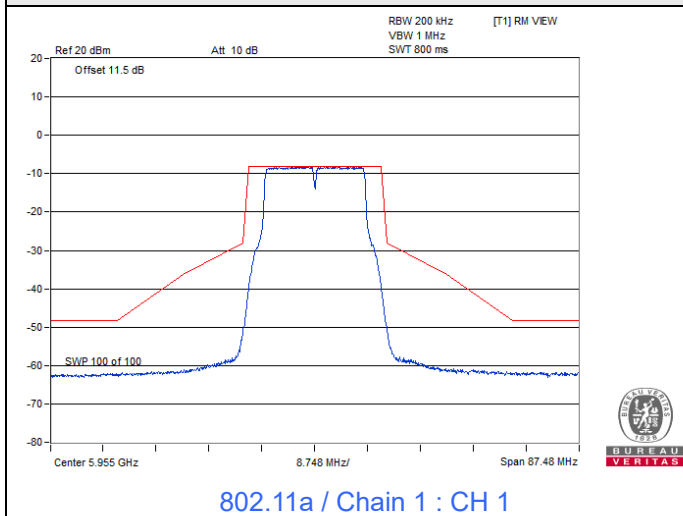
### 802.11a



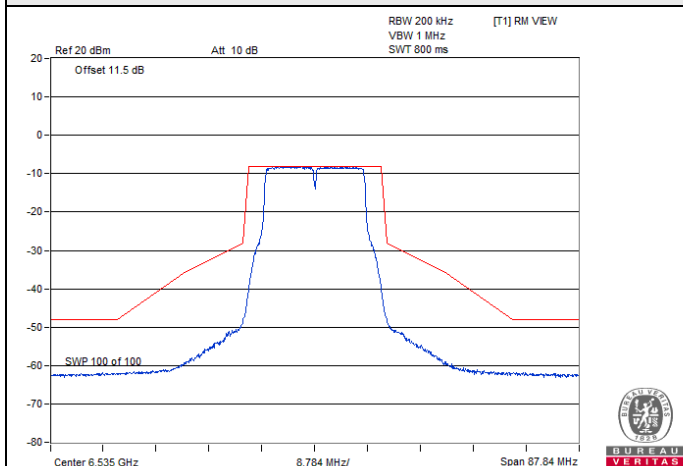
## Spectrum Plot



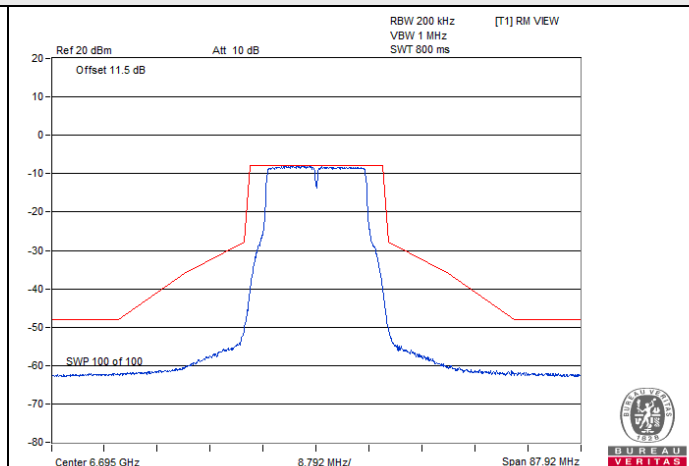
## Spectrum Plot



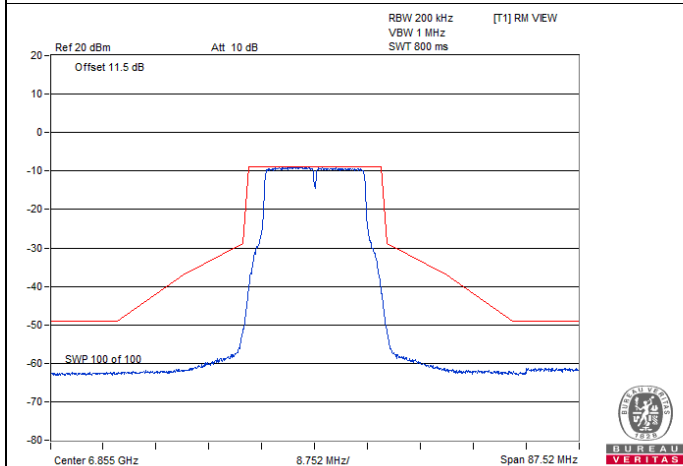
## Spectrum Plot



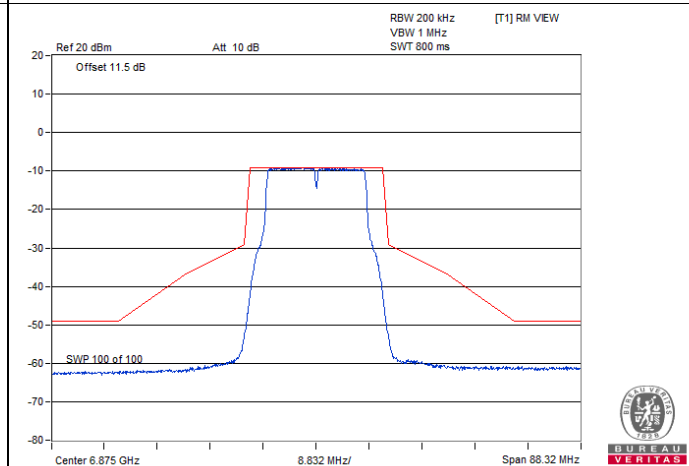
802.11a / Chain 1 : CH 117



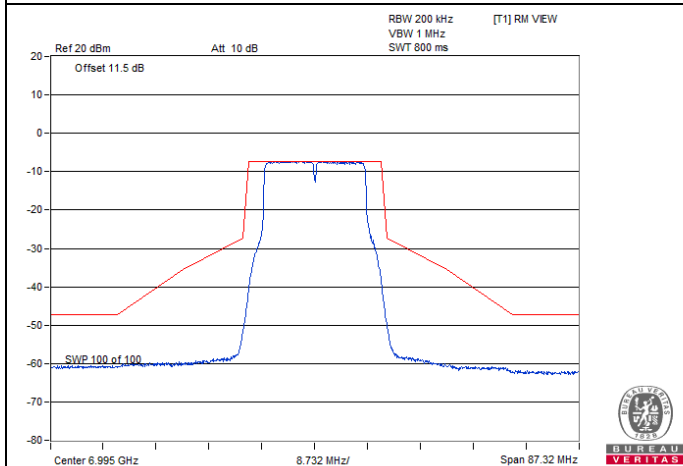
802.11a / Chain 1 : CH 149



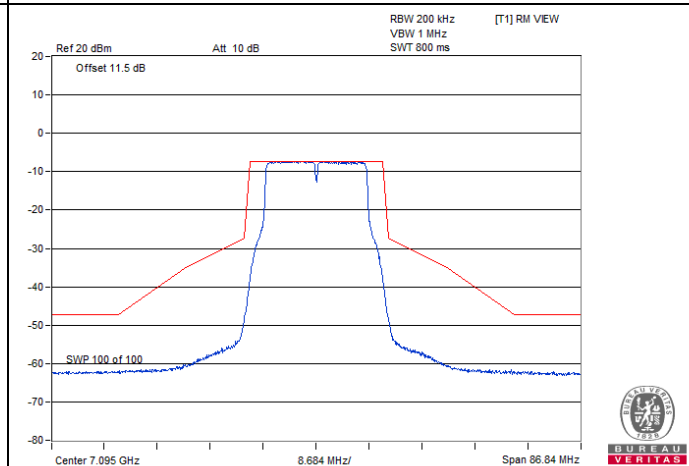
802.11a / Chain 1 : CH 181



802.11a / Chain 1 : CH 185

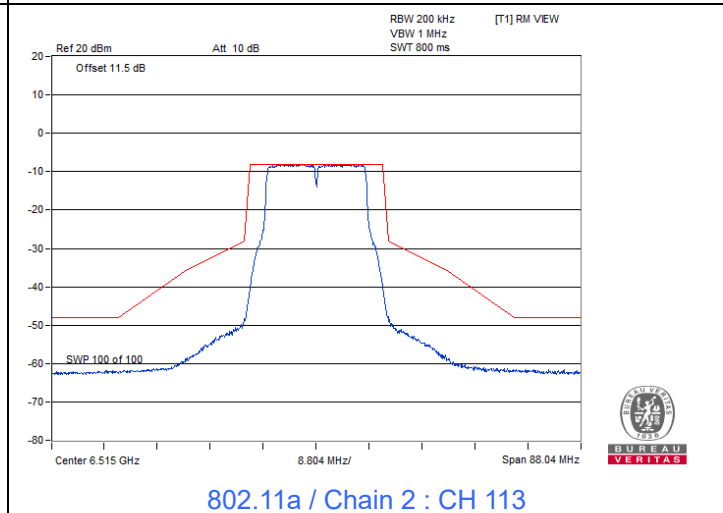
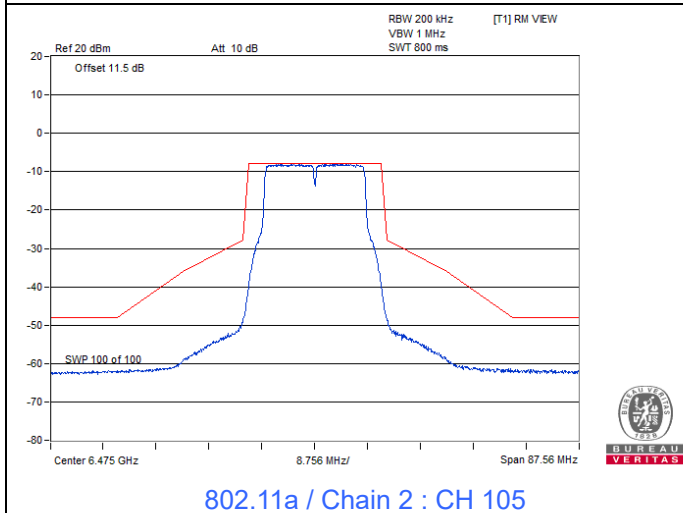
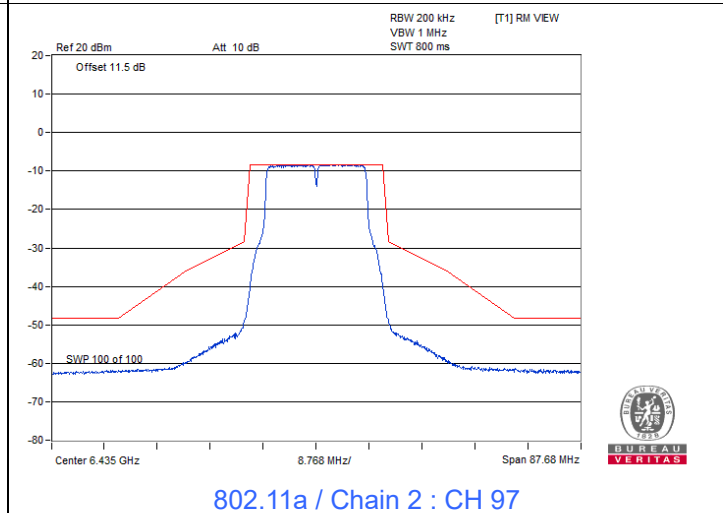
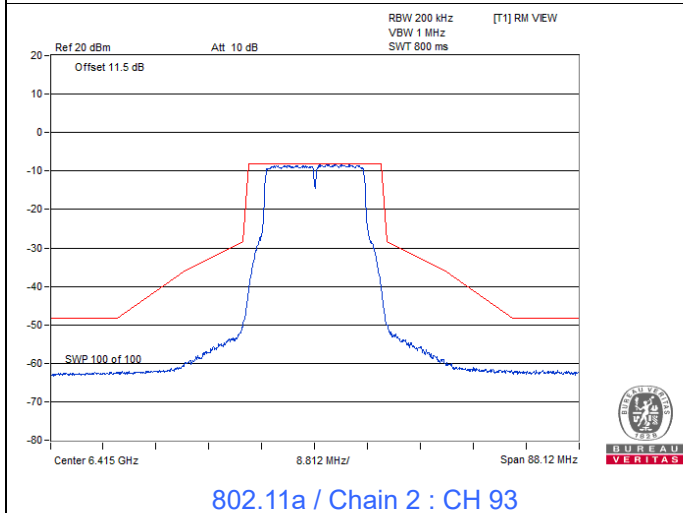
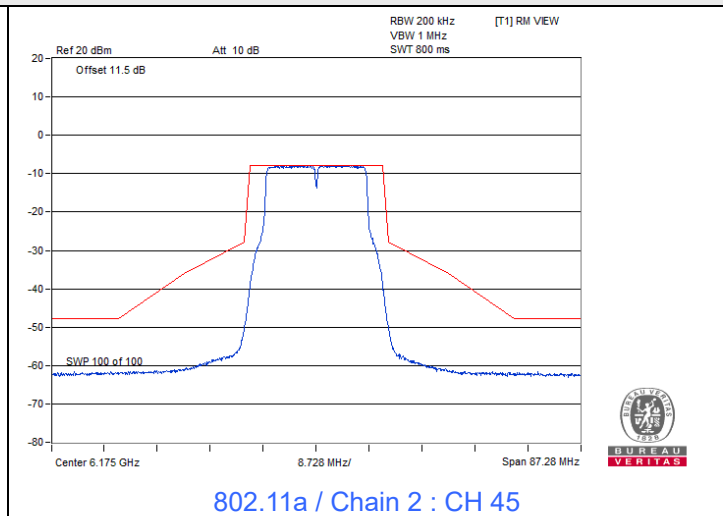
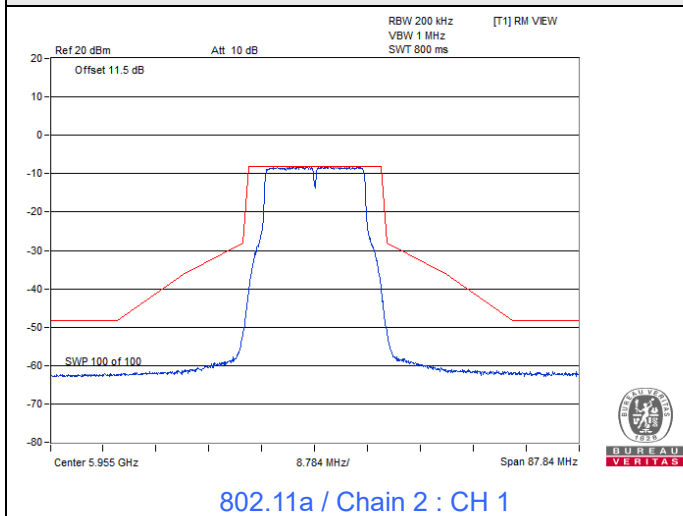


802.11a / Chain 1 : CH 209

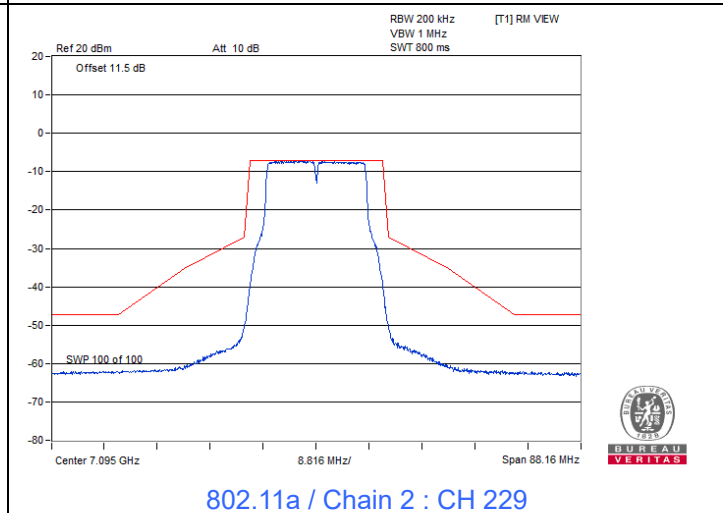
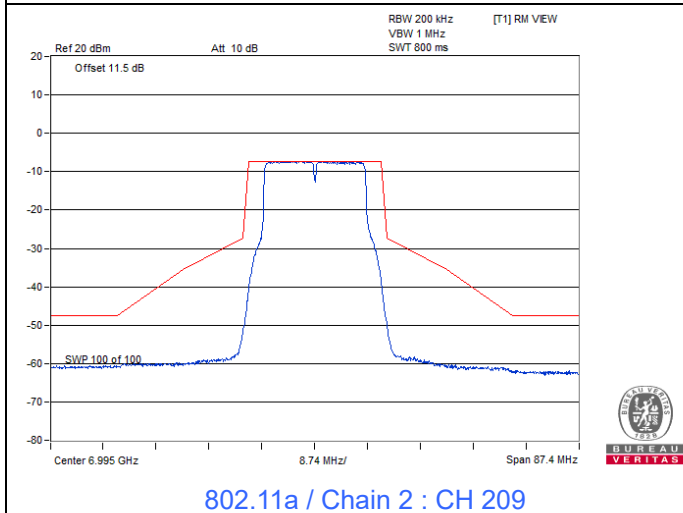
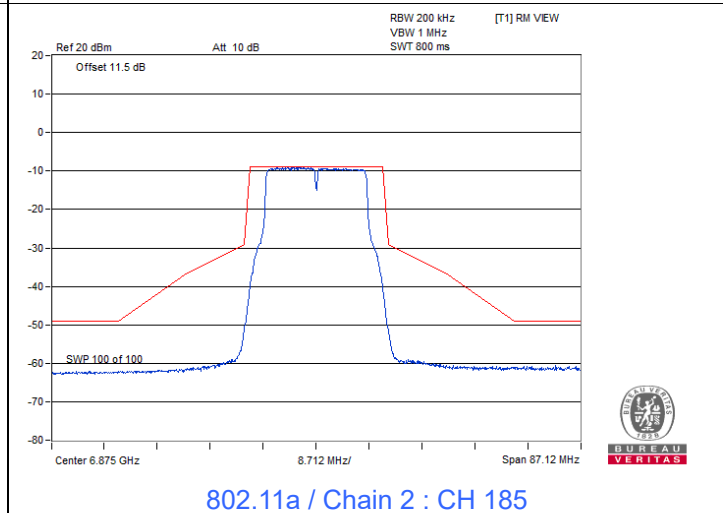
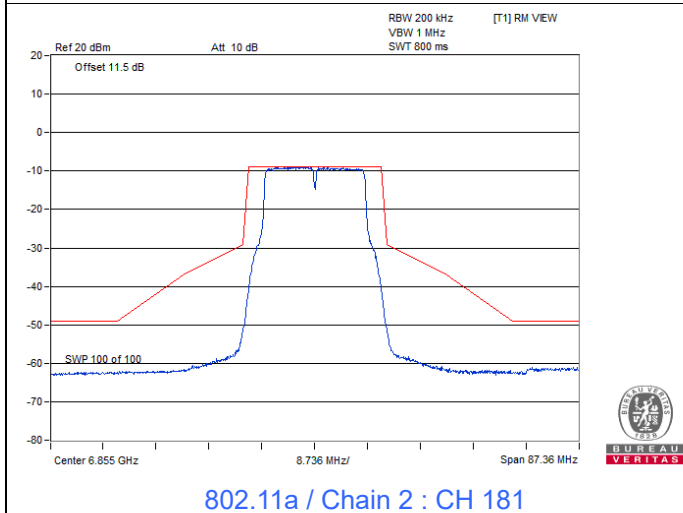
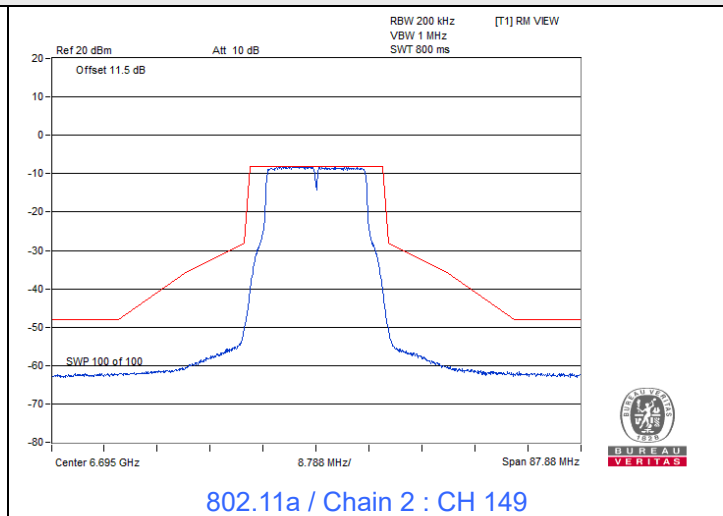
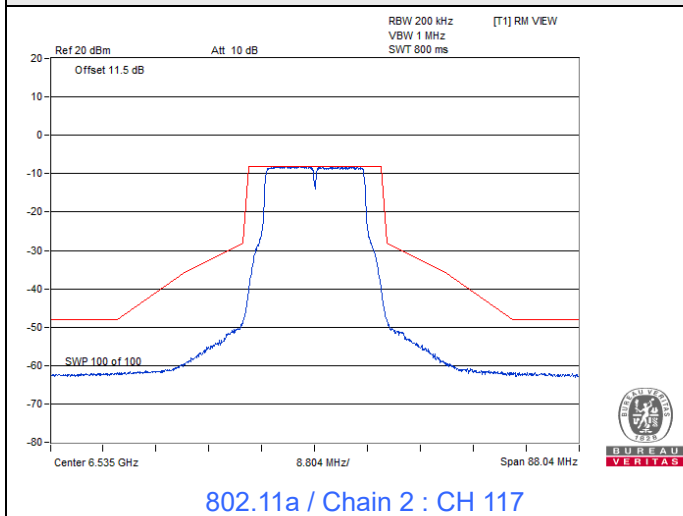


802.11a / Chain 1 : CH 229

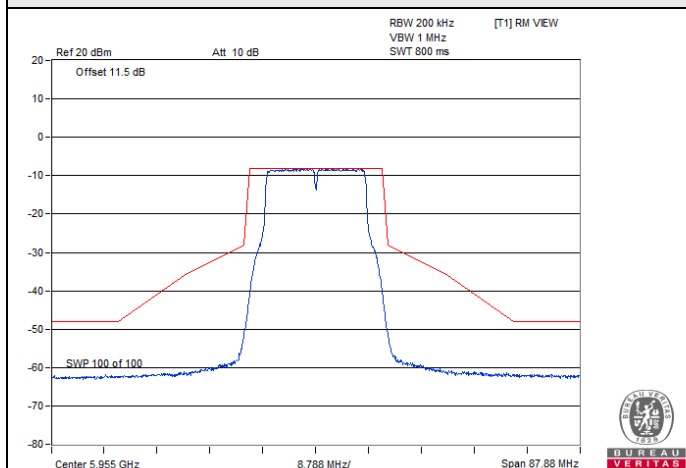
## Spectrum Plot



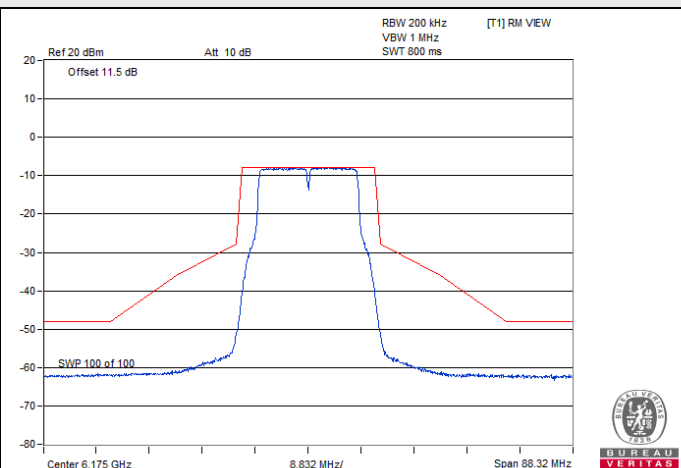
## Spectrum Plot



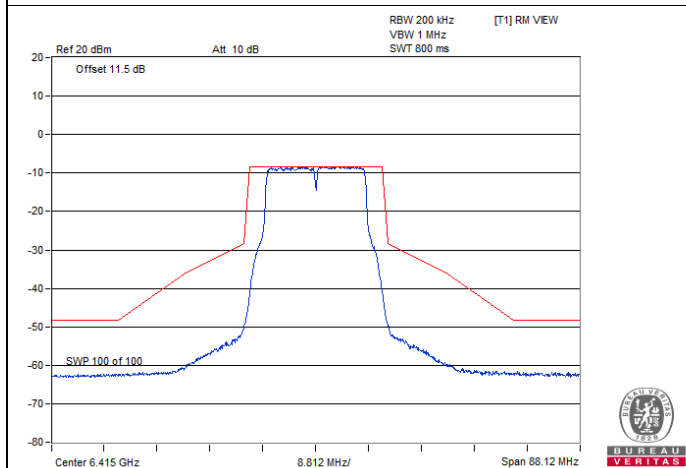
# Spectrum Plot



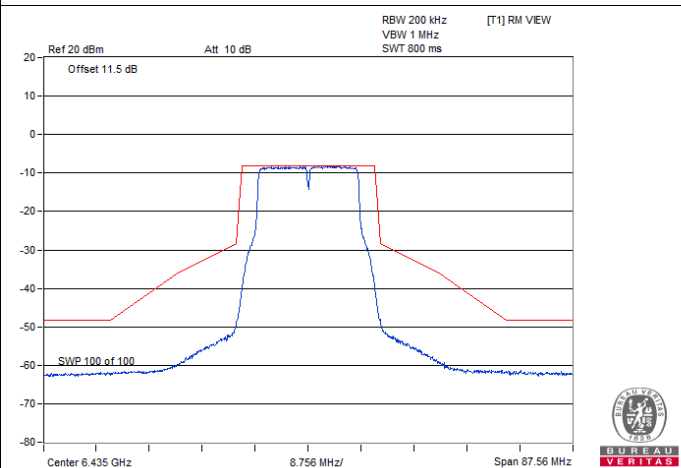
802.11a / Chain 3 : CH 1



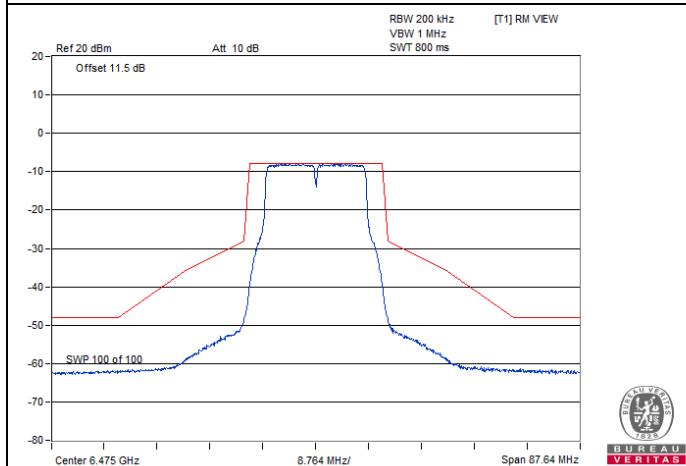
802.11a / Chain 3 : CH 45



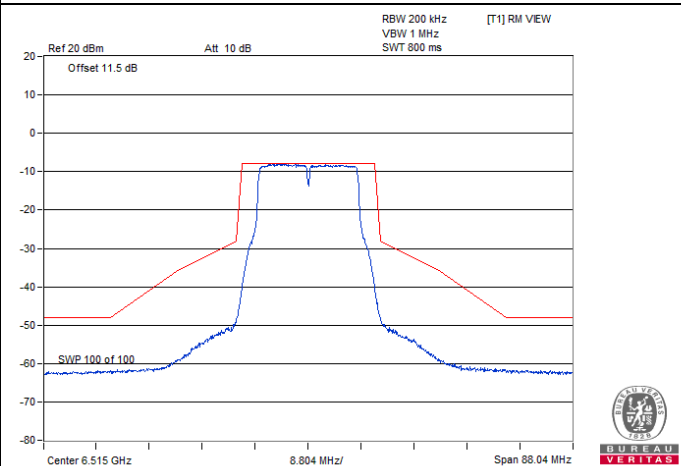
802.11a / Chain 3 : CH 93



802.11a / Chain 3 : CH 97

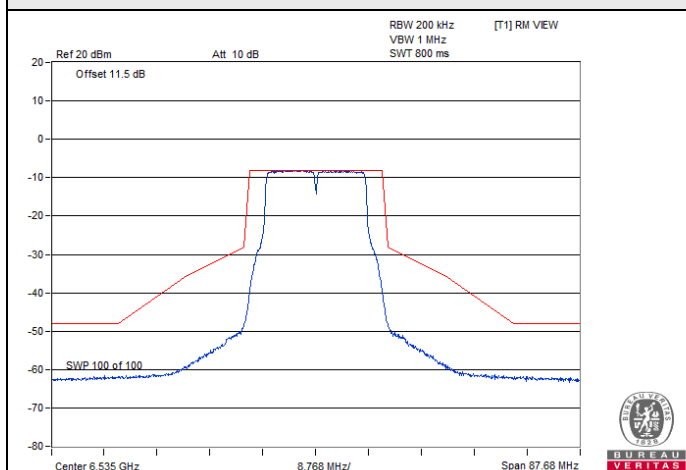


802.11a / Chain 3 : CH 105

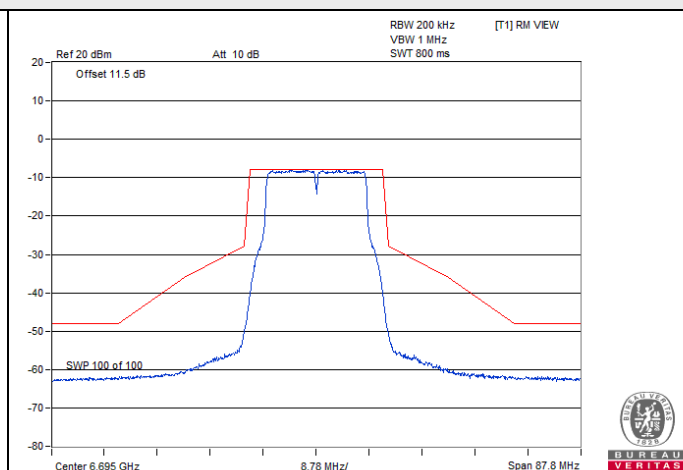


802.11a / Chain 3 : CH 113

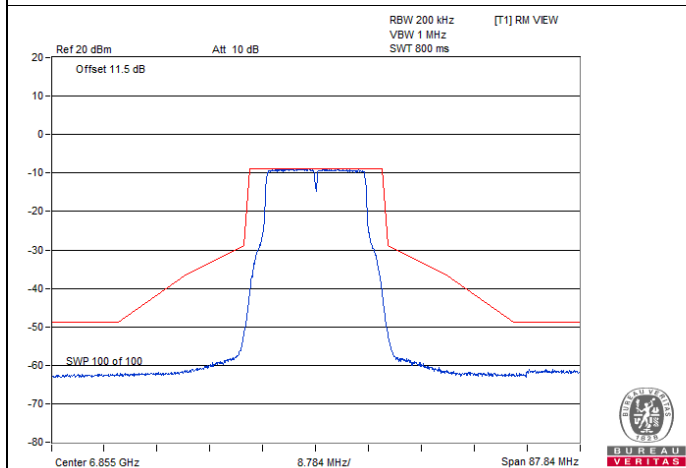
# Spectrum Plot



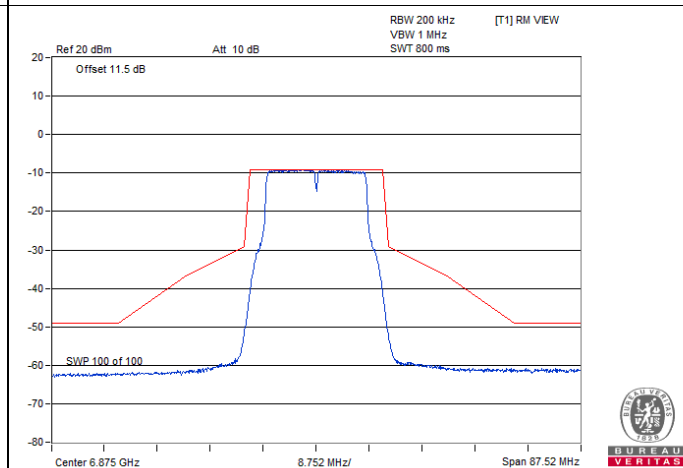
802.11a / Chain 3 : CH 117



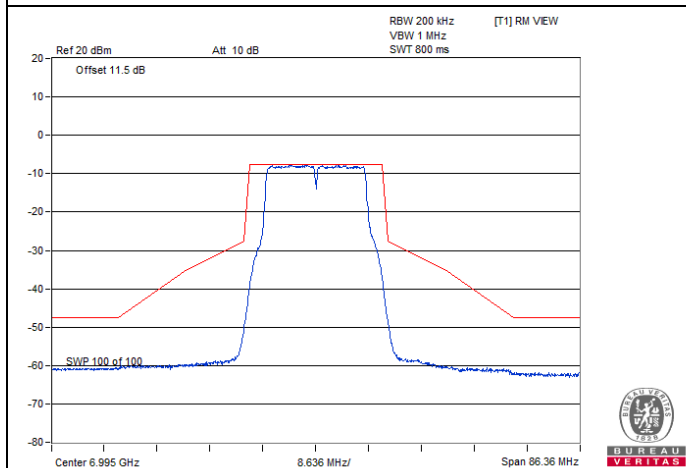
802.11a / Chain 3 : CH 149



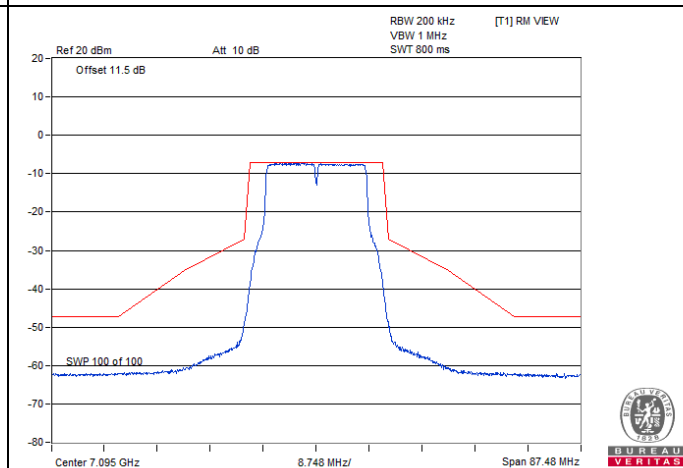
802.11a / Chain 3 : CH 181



802.11a / Chain 3 : CH 185



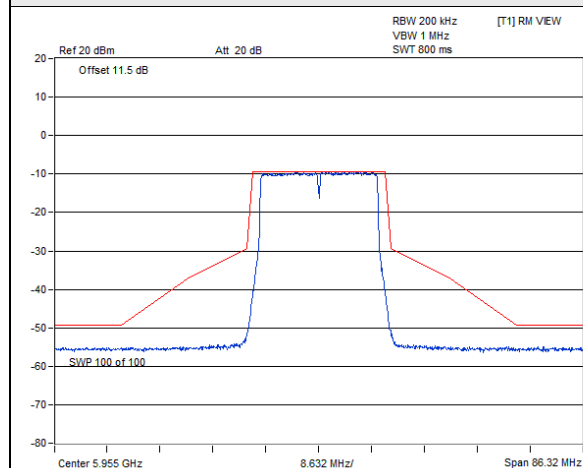
802.11a / Chain 3 : CH 209



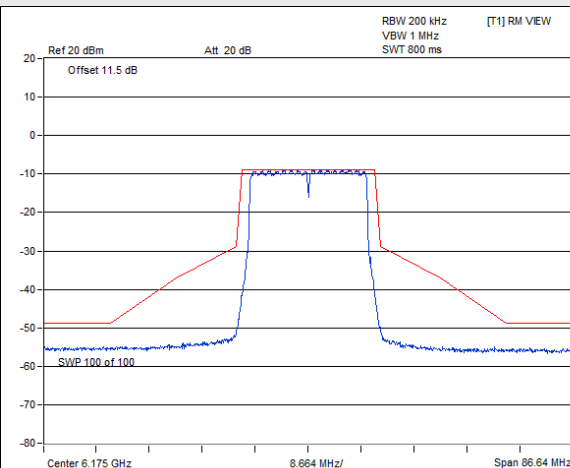
802.11a / Chain 3 : CH 229

## 802.11be (EHT20)

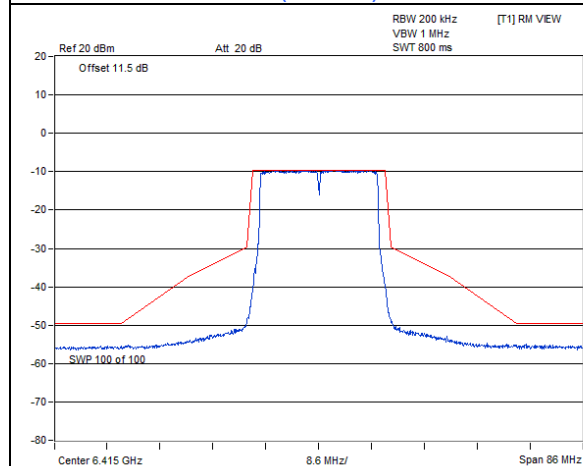
### Spectrum Plot



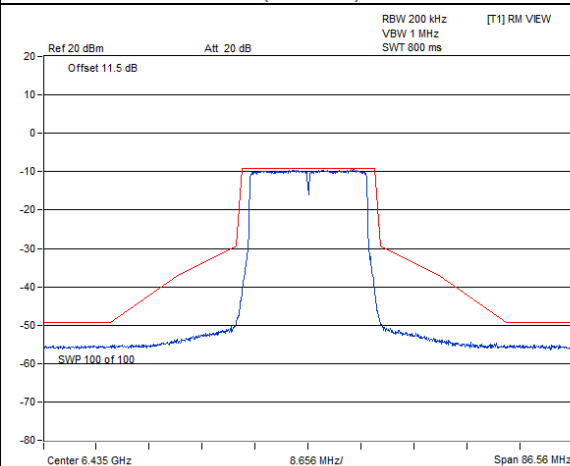
802.11be (EHT20) / Chain 0 : CH 1



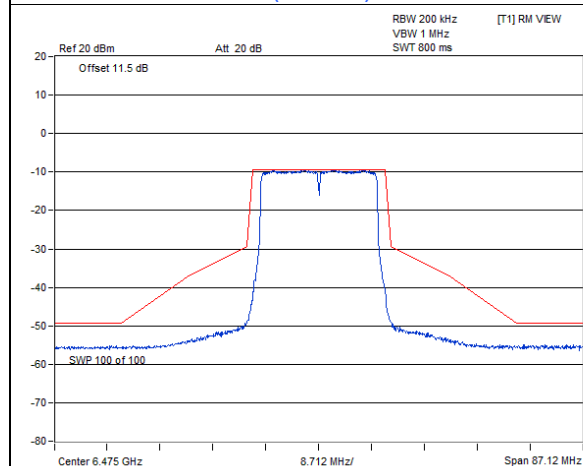
802.11be (EHT20) / Chain 0 : CH 45



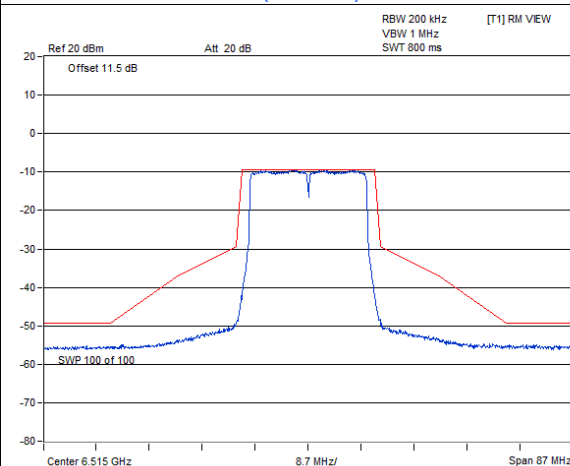
802.11be (EHT20) / Chain 0 : CH 93



802.11be (EHT20) / Chain 0 : CH 97



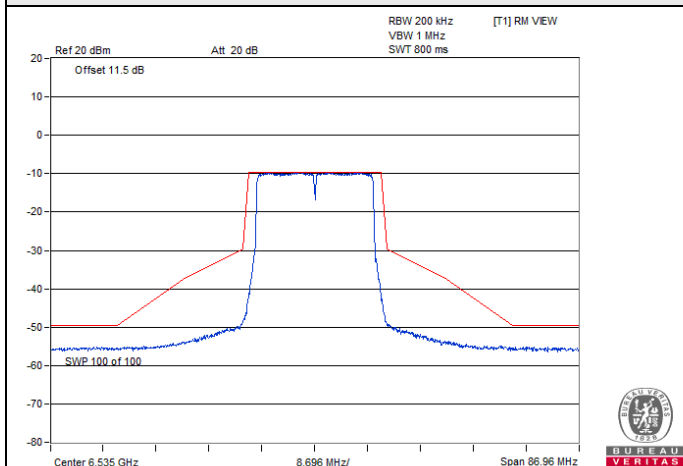
802.11be (EHT20) / Chain 0 : CH 105



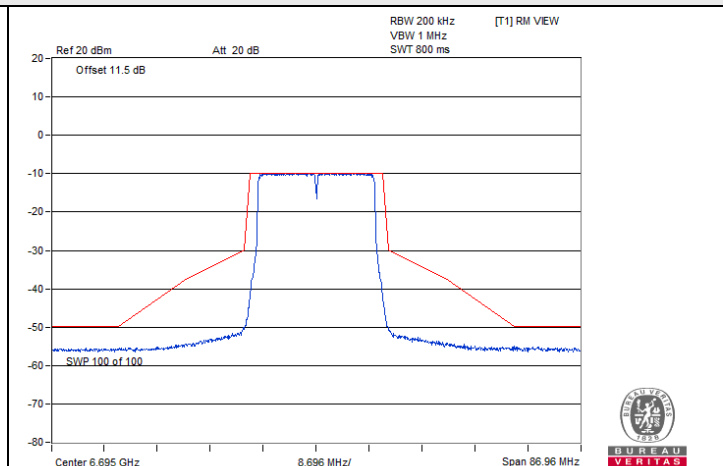
802.11be (EHT20) / Chain 0 : CH 113



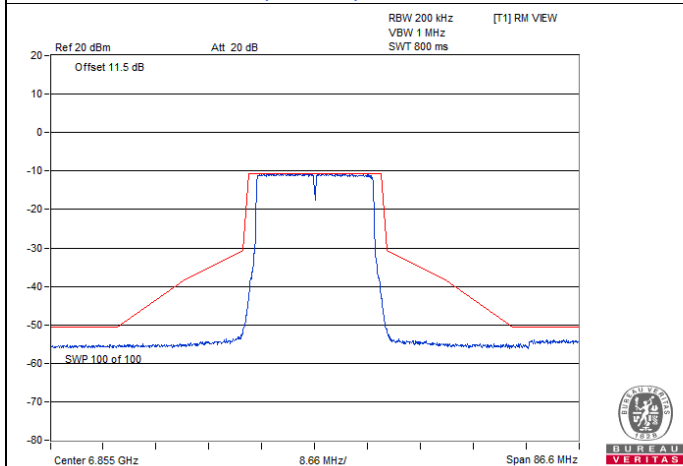
## Spectrum Plot



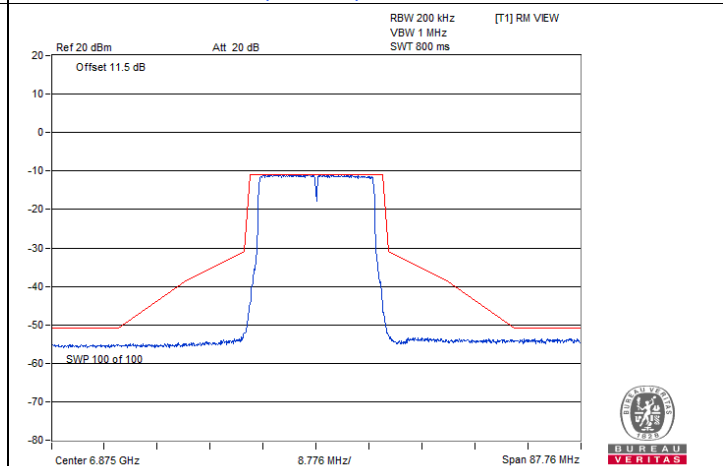
802.11be (EHT20) / Chain 0 : CH 117



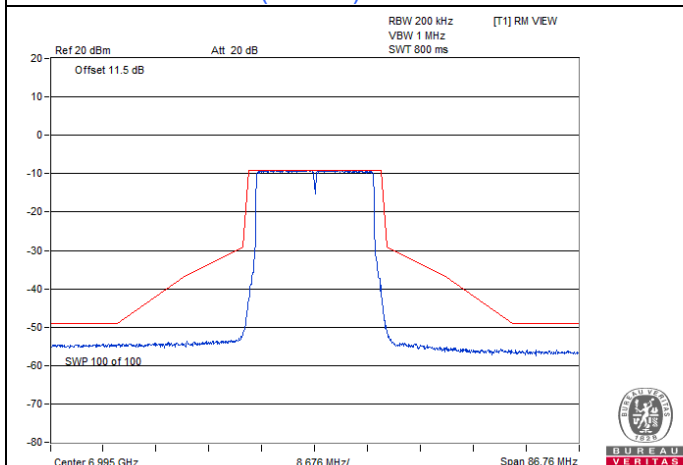
802.11be (EHT20) / Chain 0 : CH 149



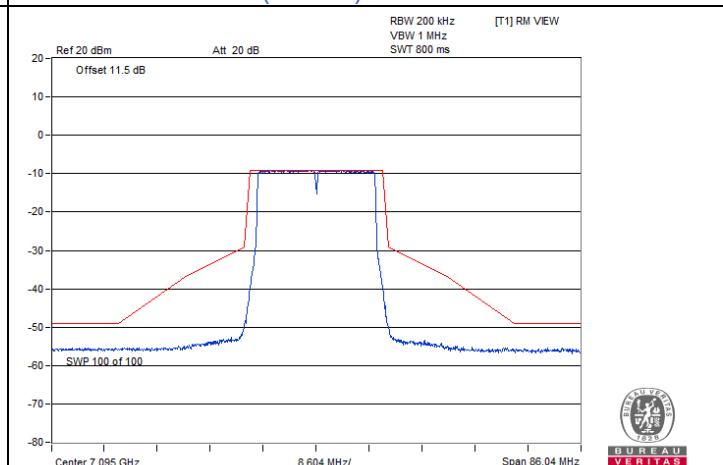
802.11be (EHT20) / Chain 0 : CH 181



802.11be (EHT20) / Chain 0 : CH 185

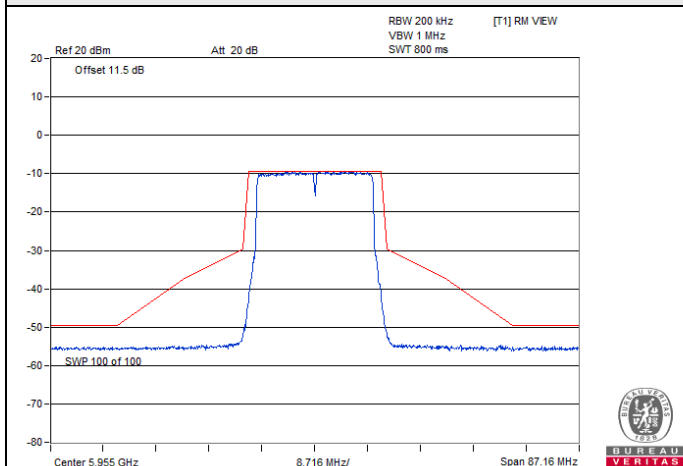


802.11be (EHT20) / Chain 0 : CH 209

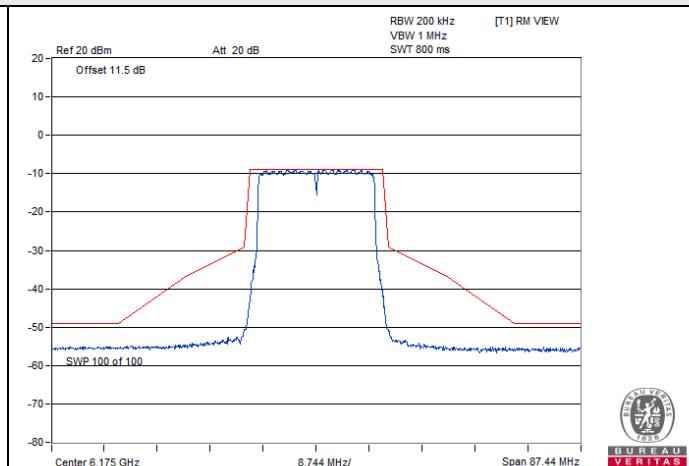


802.11be (EHT20) / Chain 0 : CH 229

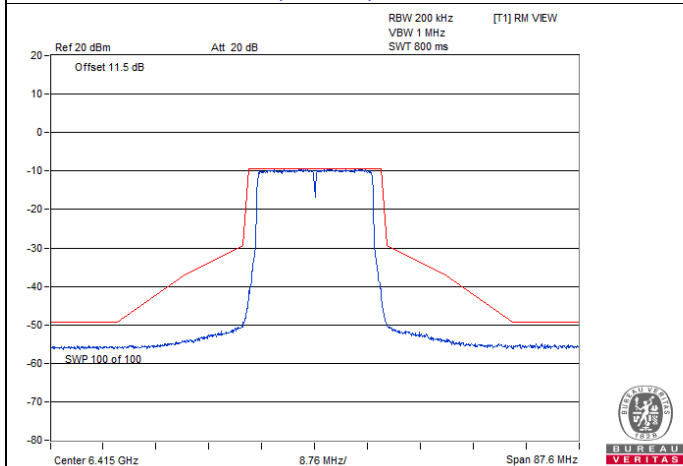
## Spectrum Plot



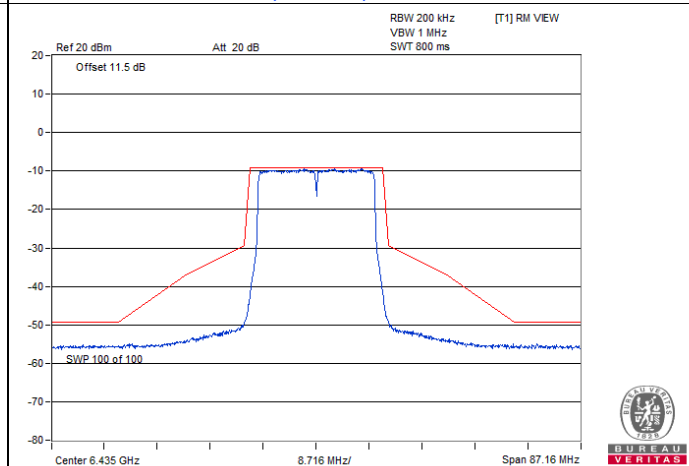
802.11be (EHT20) / Chain 1 : CH 1



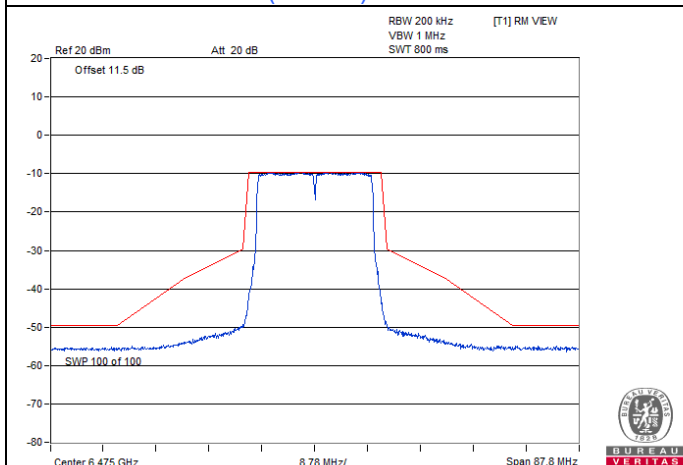
802.11be (EHT20) / Chain 1 : CH 45



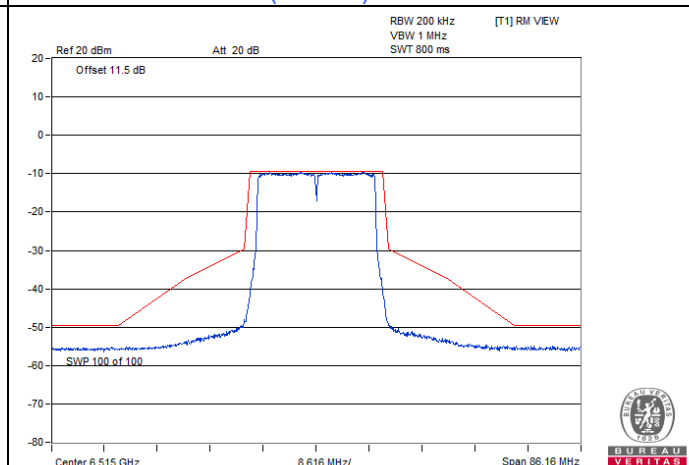
802.11be (EHT20) / Chain 1 : CH 93



802.11be (EHT20) / Chain 1 : CH 97

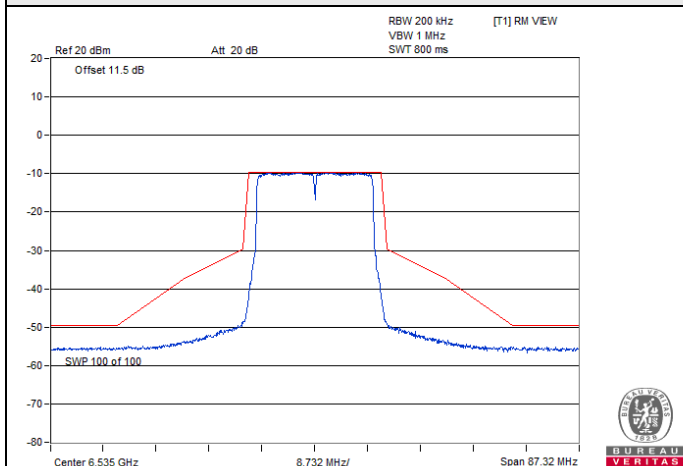


802.11be (EHT20) / Chain 1 : CH 105

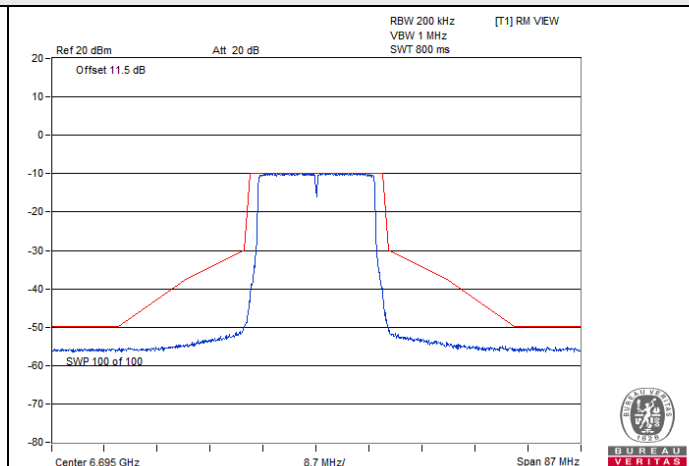


802.11be (EHT20) / Chain 1 : CH 113

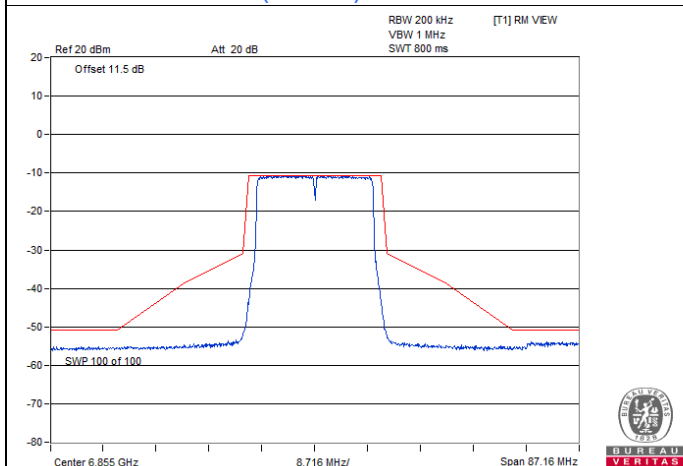
## Spectrum Plot



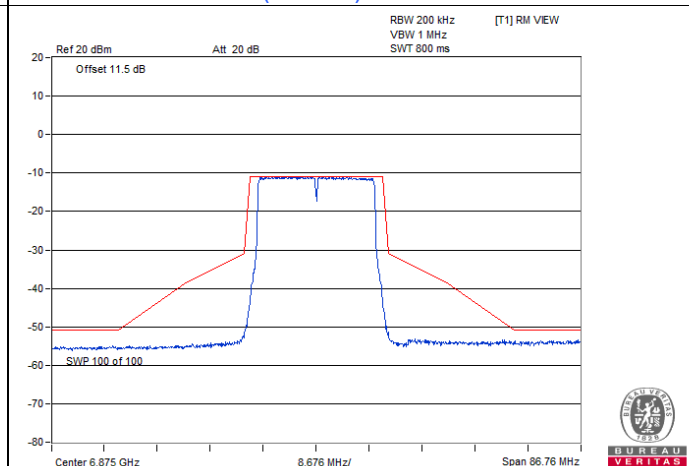
802.11be (EHT20) / Chain 1 : CH 117



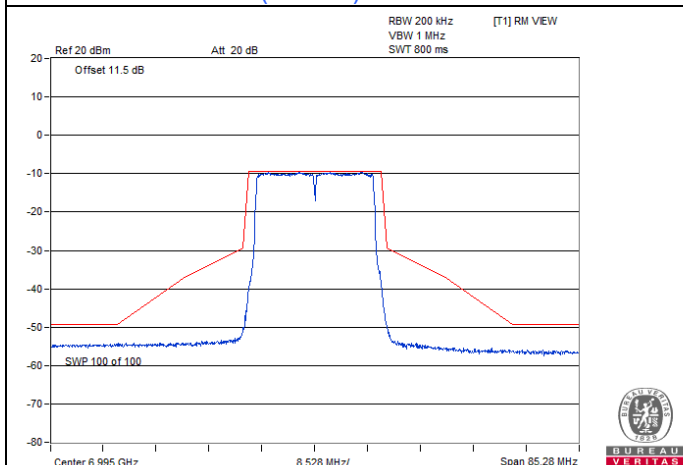
802.11be (EHT20) / Chain 1 : CH 149



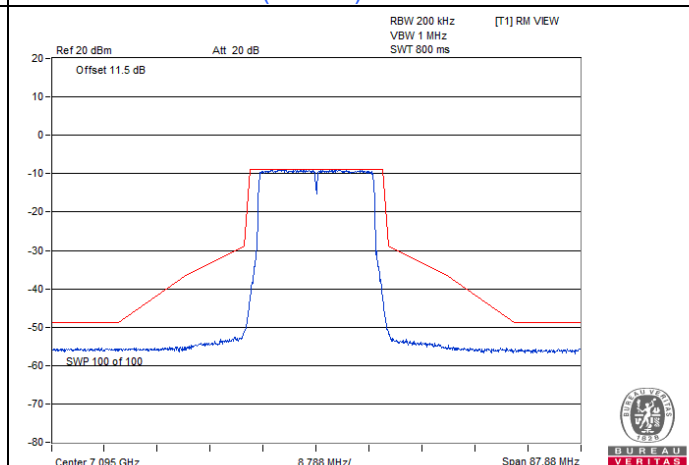
802.11be (EHT20) / Chain 1 : CH 181



802.11be (EHT20) / Chain 1 : CH 185

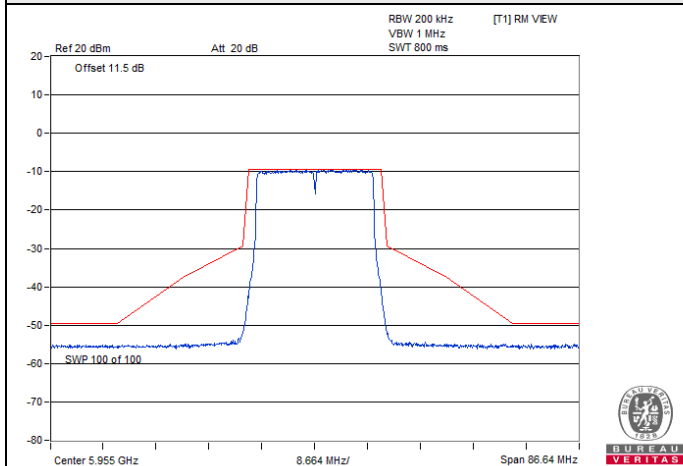


802.11be (EHT20) / Chain 1 : CH 209

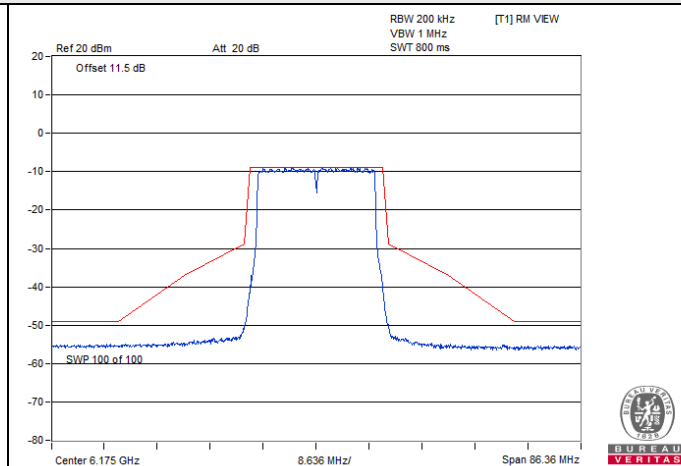


802.11be (EHT20) / Chain 1 : CH 229

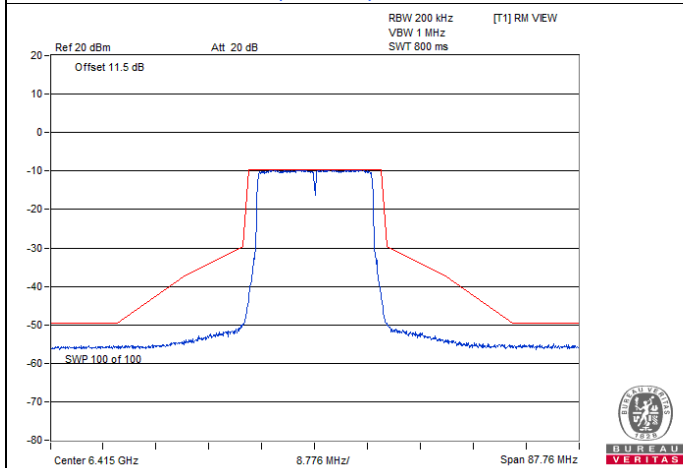
## Spectrum Plot



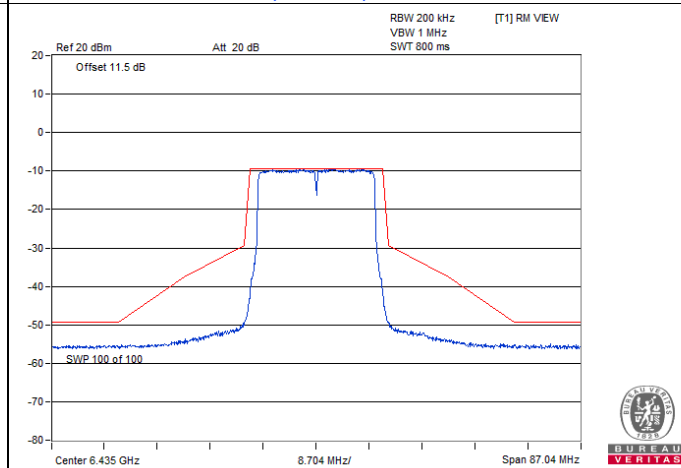
802.11be (EHT20) / Chain 2 : CH 1



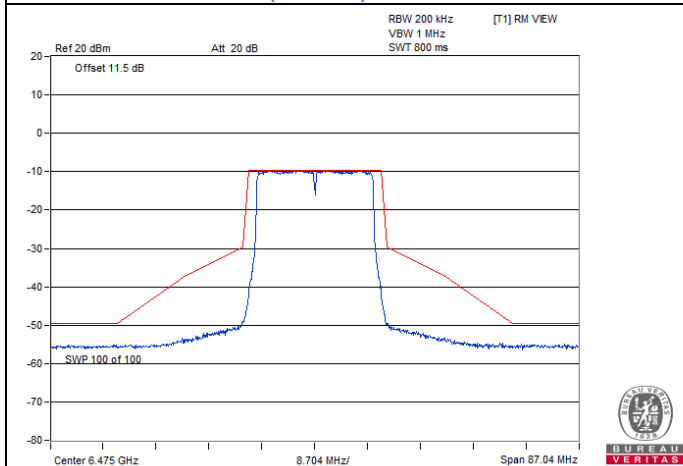
802.11be (EHT20) / Chain 2 : CH 45



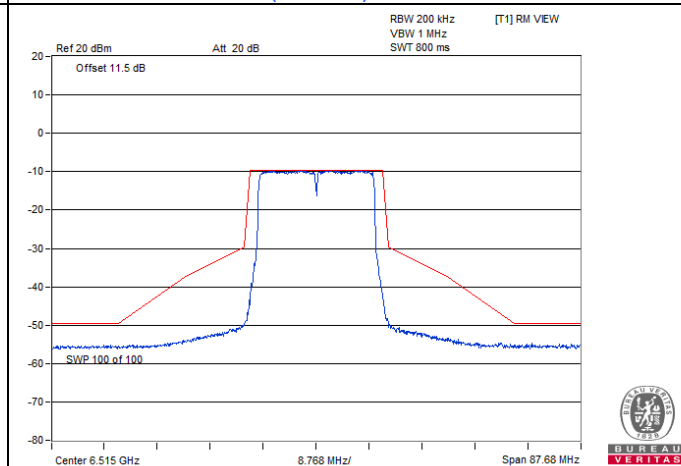
802.11be (EHT20) / Chain 2 : CH 93



802.11be (EHT20) / Chain 2 : CH 97

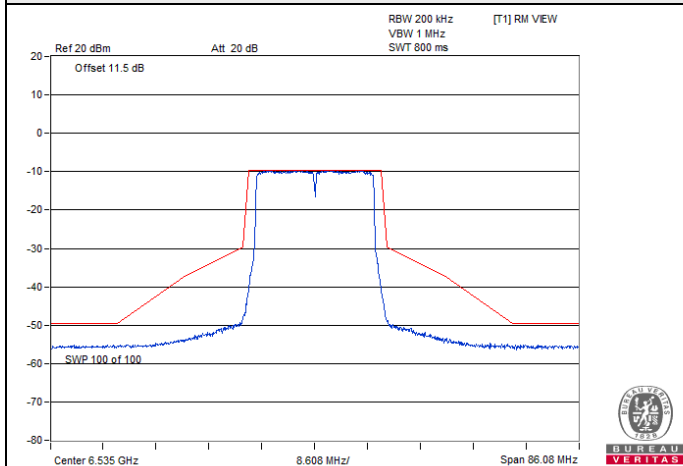


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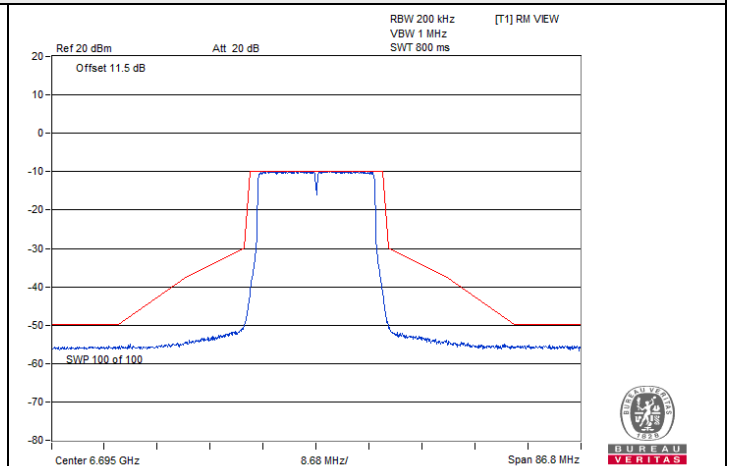


802.11be (EHT20) / Chain 2 : CH 113

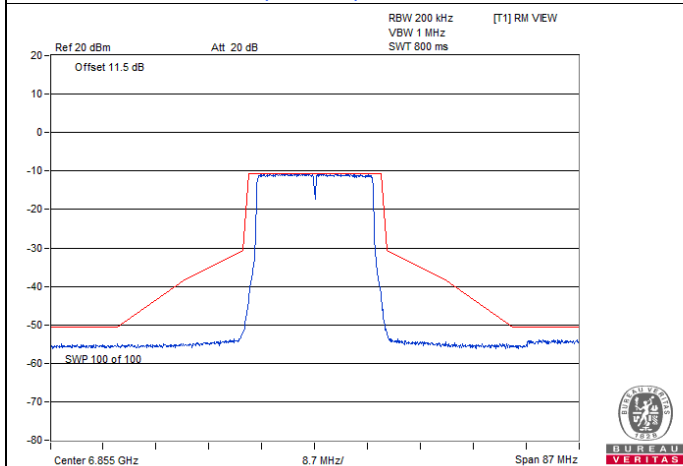
## Spectrum Plot



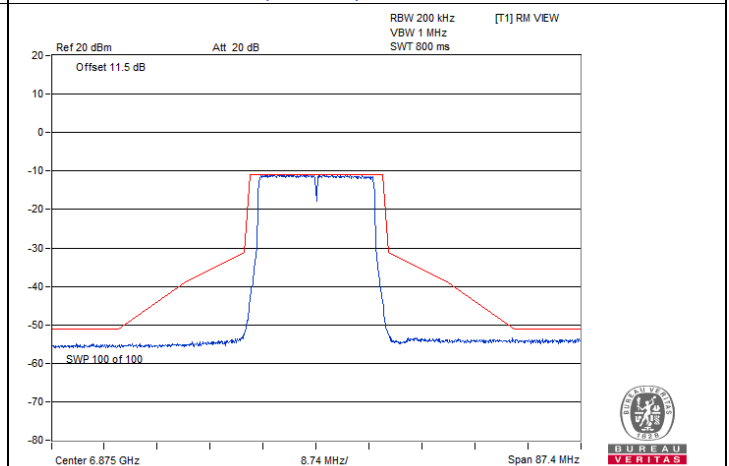
802.11be (EHT20) / Chain 2 : CH 117



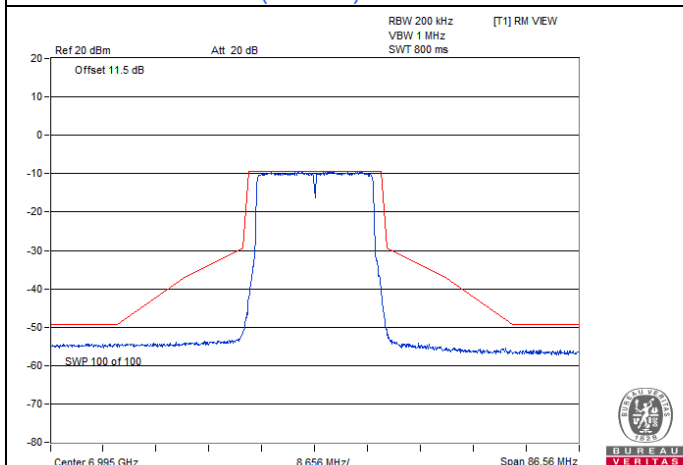
802.11be (EHT20) / Chain 2 : CH 149



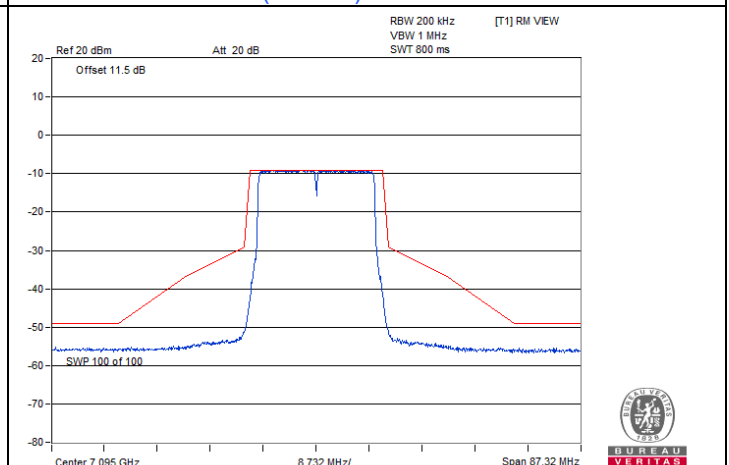
802.11be (EHT20) / Chain 2 : CH 181



802.11be (EHT20) / Chain 2 : CH 185

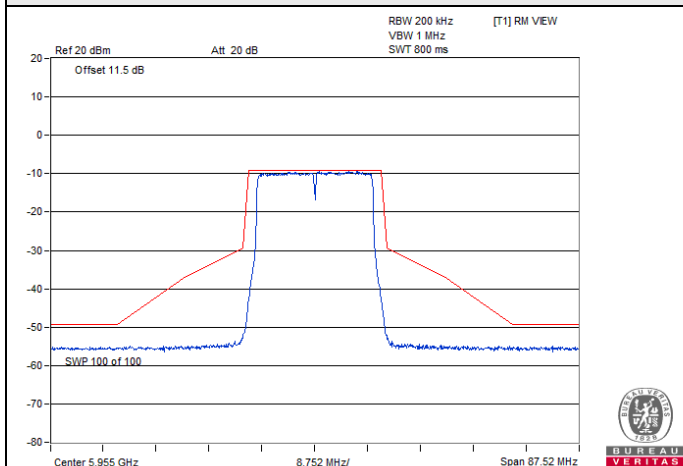


802.11be (EHT20) / Chain 2 : CH 209

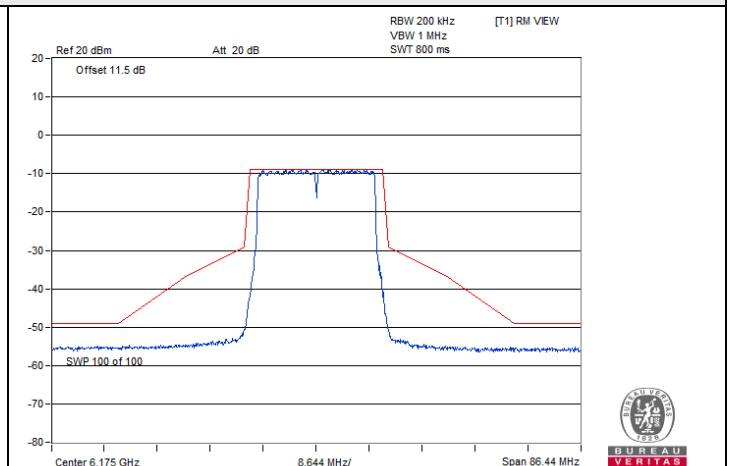


802.11be (EHT20) / Chain 2 : CH 229

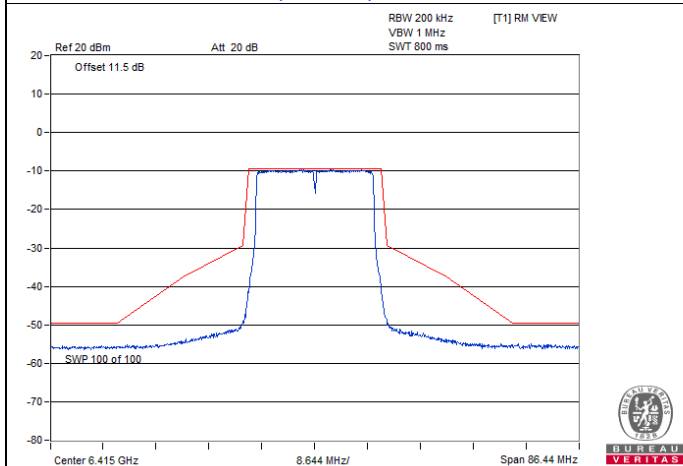
## Spectrum Plot



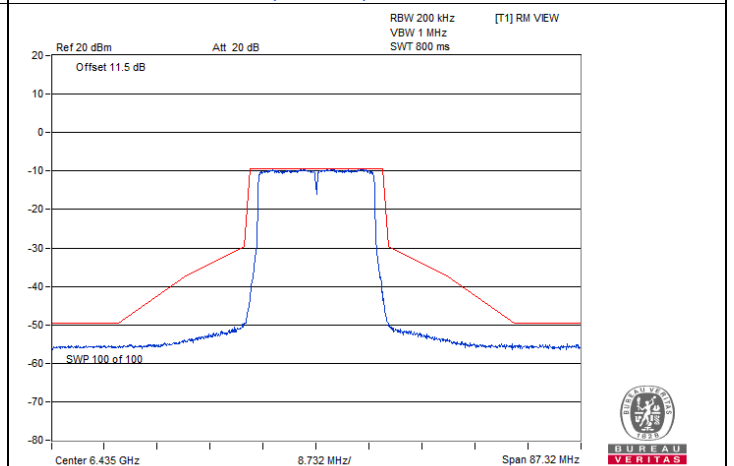
802.11be (EHT20) / Chain 3 : CH 1



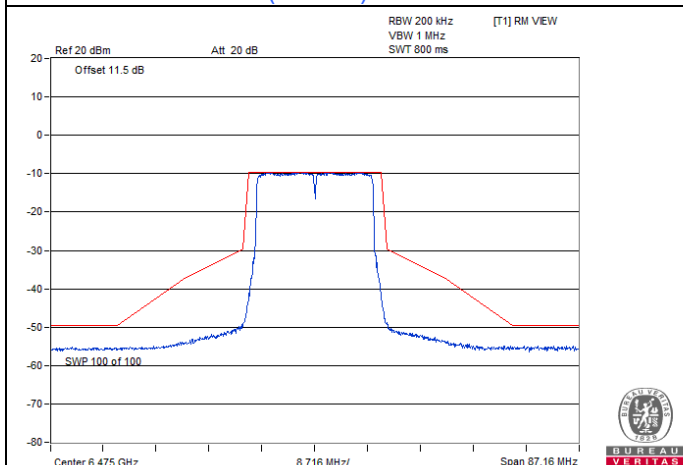
802.11be (EHT20) / Chain 3 : CH 45



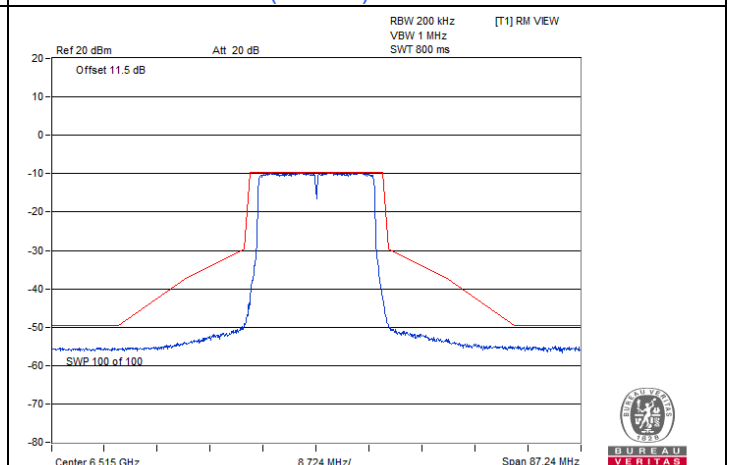
802.11be (EHT20) / Chain 3 : CH 93



802.11be (EHT20) / Chain 3 : CH 97

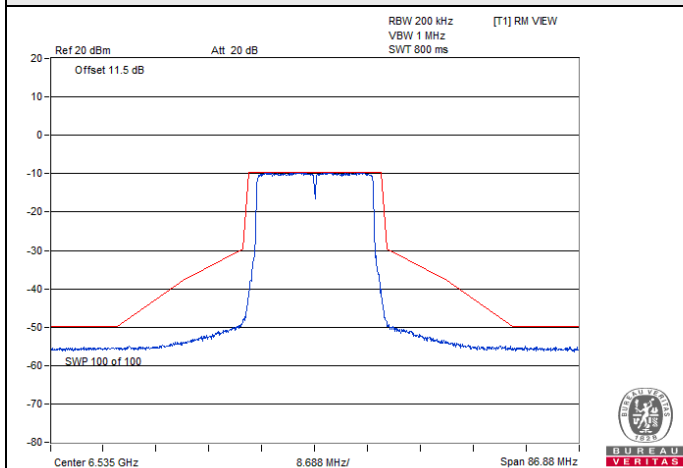


802.11be (EHT20) / Chain 3 : CH 105

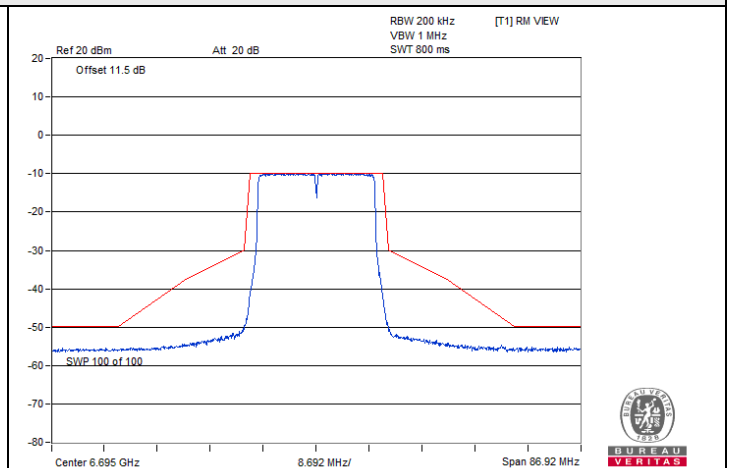


802.11be (EHT20) / Chain 3 : CH 113

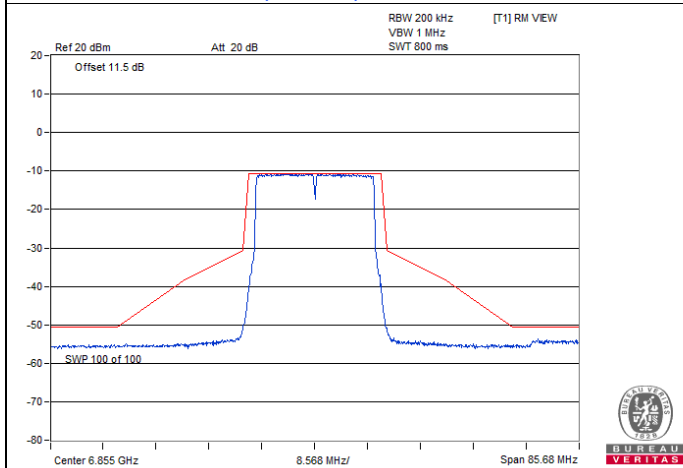
## Spectrum Plot



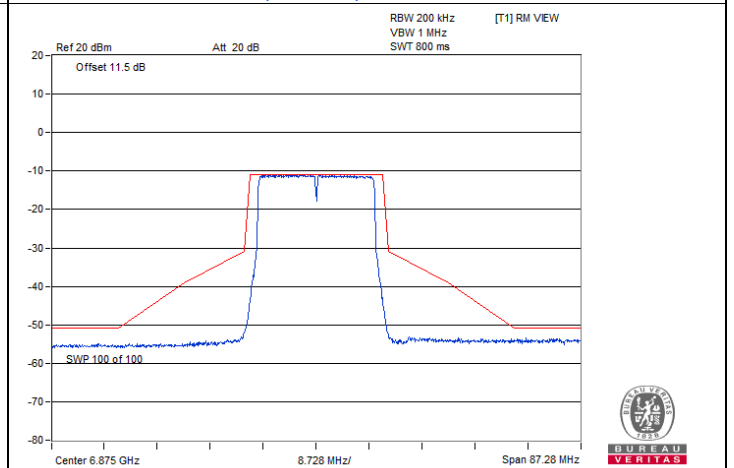
802.11be (EHT20) / Chain 3 : CH 117



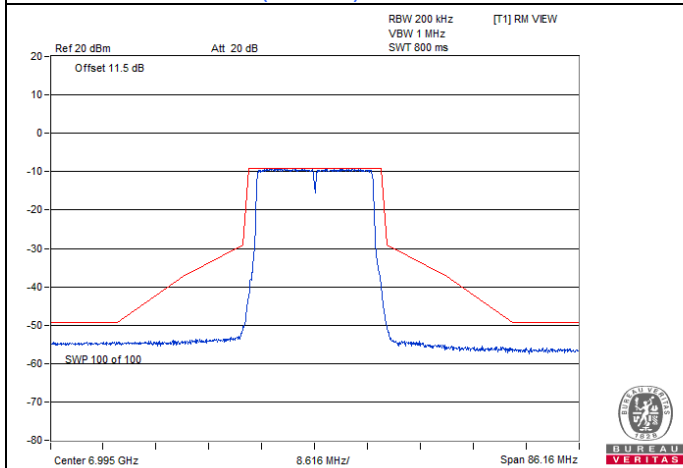
802.11be (EHT20) / Chain 3 : CH 149



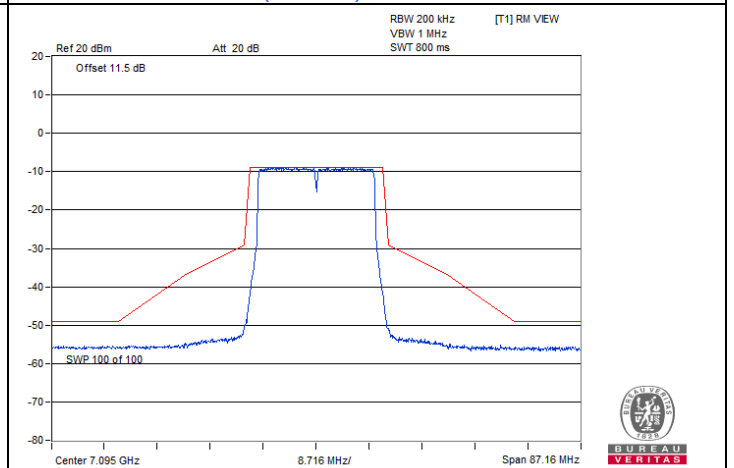
802.11be (EHT20) / Chain 3 : CH 181



802.11be (EHT20) / Chain 3 : CH 185



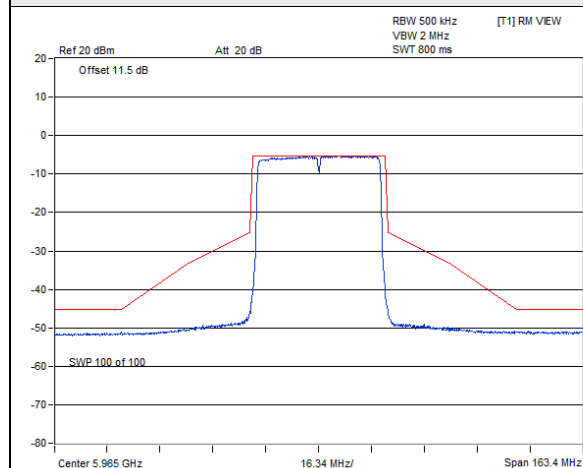
802.11be (EHT20) / Chain 3 : CH 209



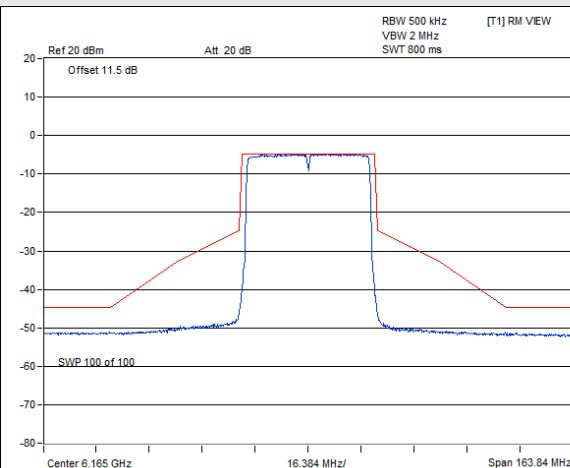
802.11be (EHT20) / Chain 3 : CH 229

## 802.11be (EHT40)

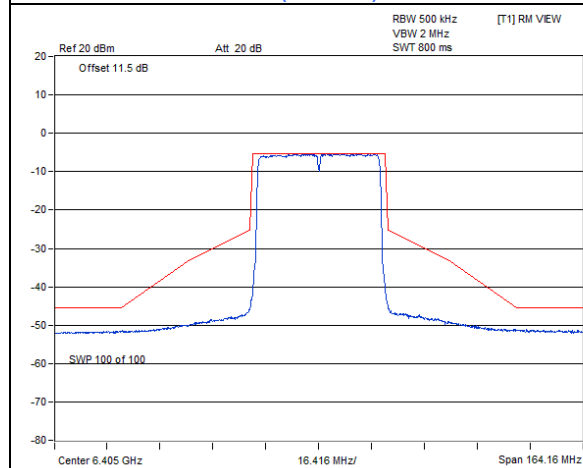
### Spectrum Plot



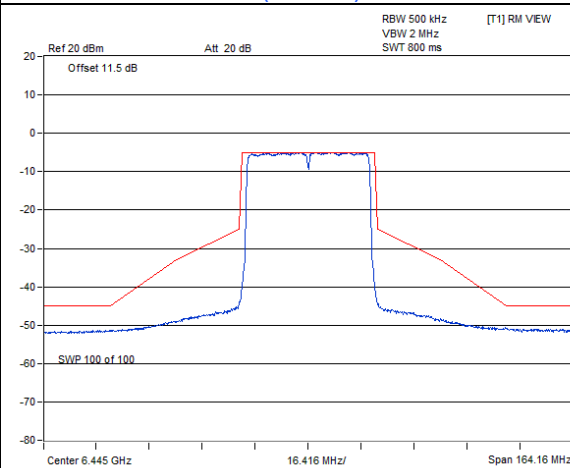
802.11be (EHT40) / Chain 0 : CH 3



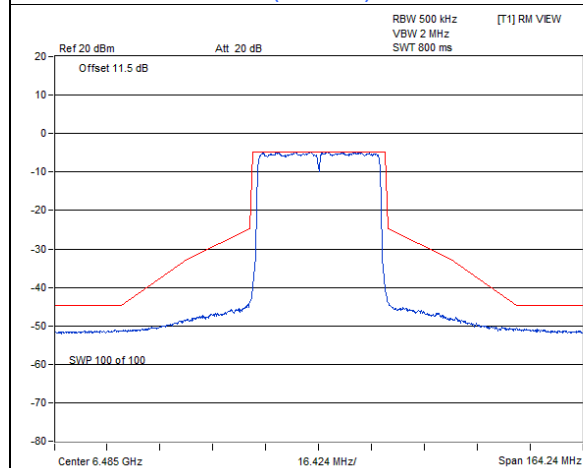
802.11be (EHT40) / Chain 0 : CH 43



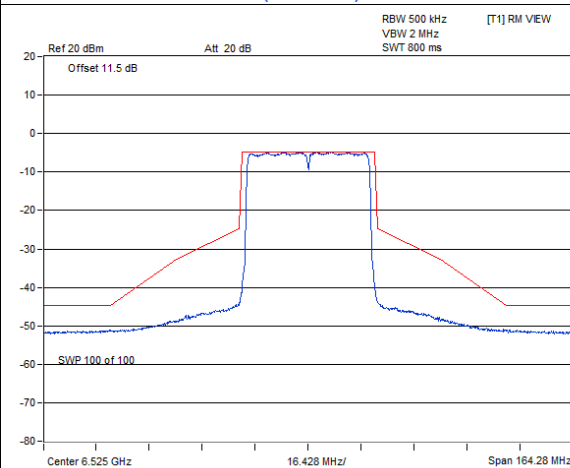
802.11be (EHT40) / Chain 0 : CH 91



802.11be (EHT40) / Chain 0 : CH 99

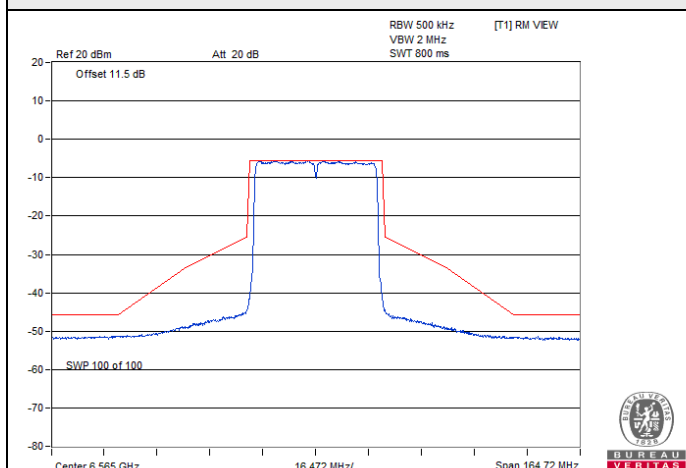


802.11be (EHT40) / Chain 0 : CH 107

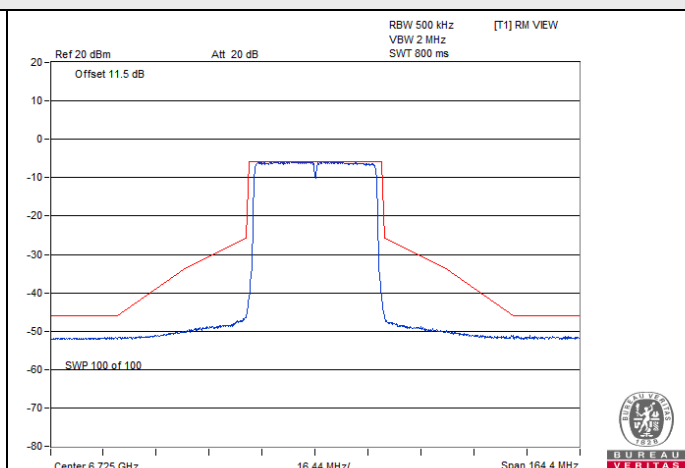


802.11be (EHT40) / Chain 0 : CH 115

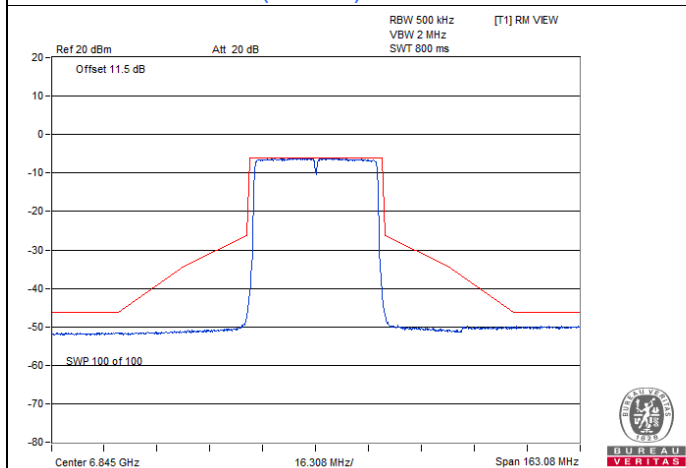
# Spectrum Plot



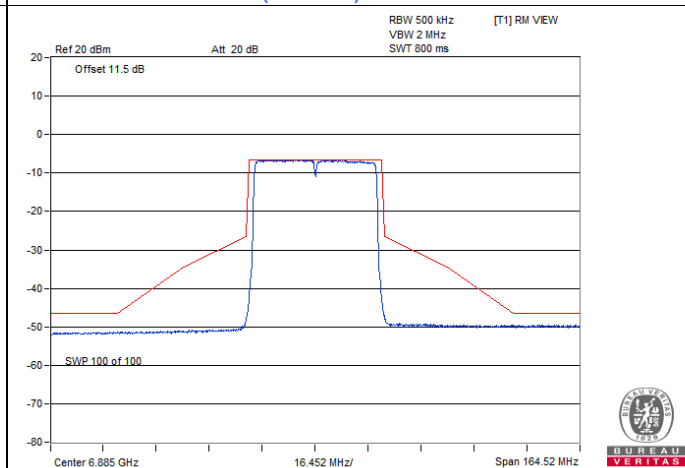
802.11be (EHT40) / Chain 0 : CH 123



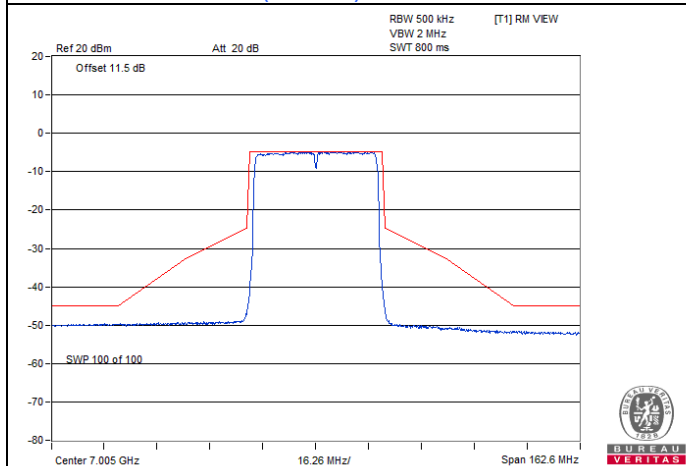
802.11be (EHT40) / Chain 0 : CH 155



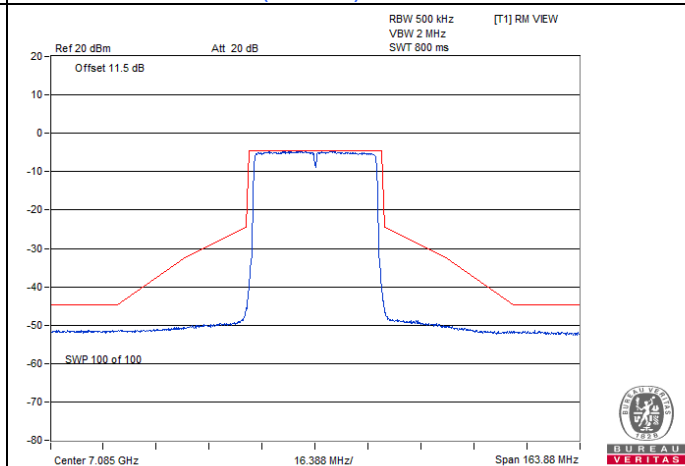
802.11be (EHT40) / Chain 0 : CH 179



802.11be (EHT40) / Chain 0 : CH 187

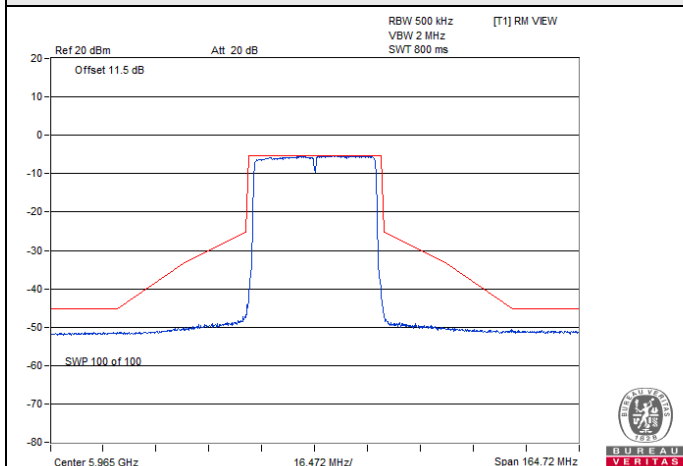


802.11be (EHT40) / Chain 0 : CH 211

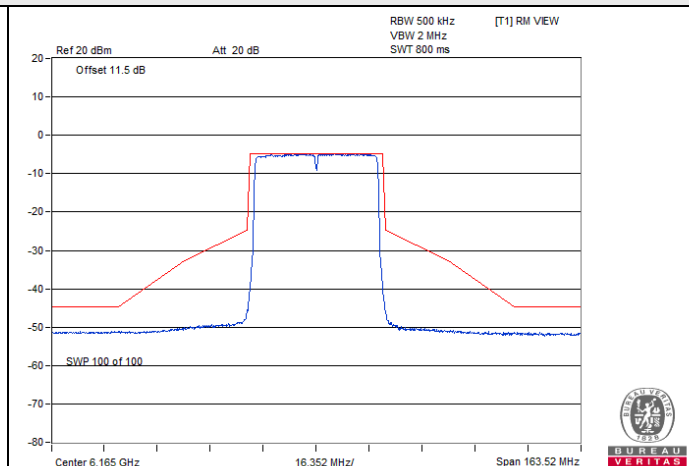


802.11be (EHT40) / Chain 0 : CH 227

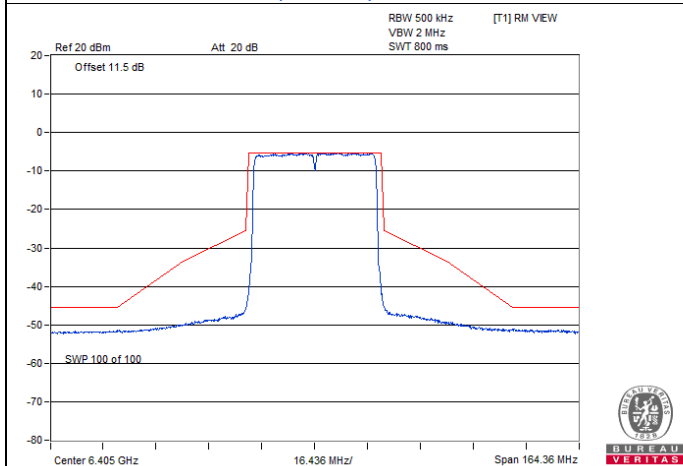
## Spectrum Plot



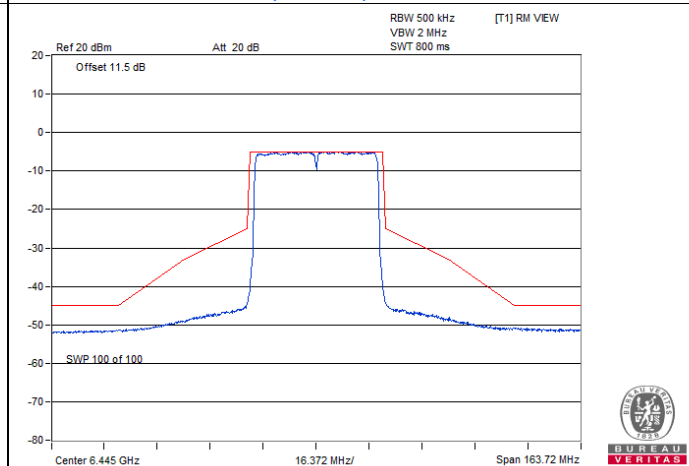
802.11be (EHT40) / Chain 1 : CH 3



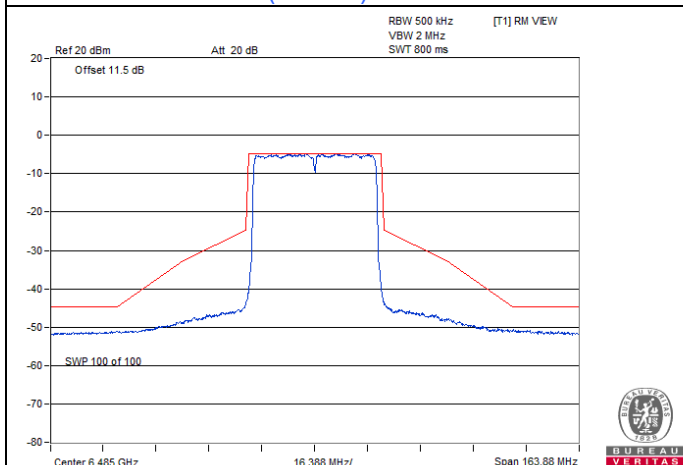
802.11be (EHT40) / Chain 1 : CH 43



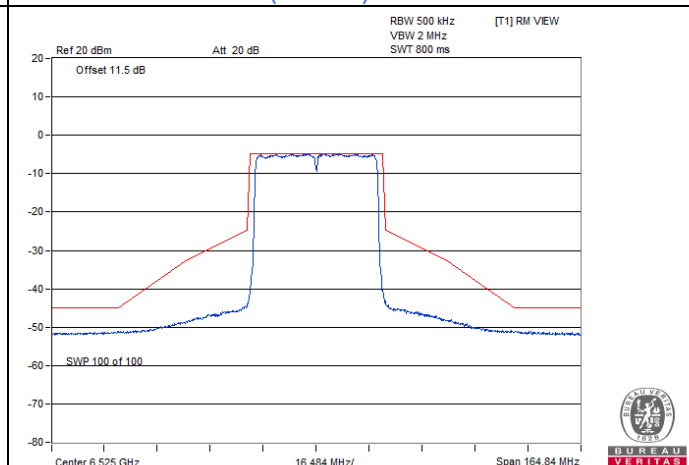
802.11be (EHT40) / Chain 1 : CH 91



802.11be (EHT40) / Chain 1 : CH 99

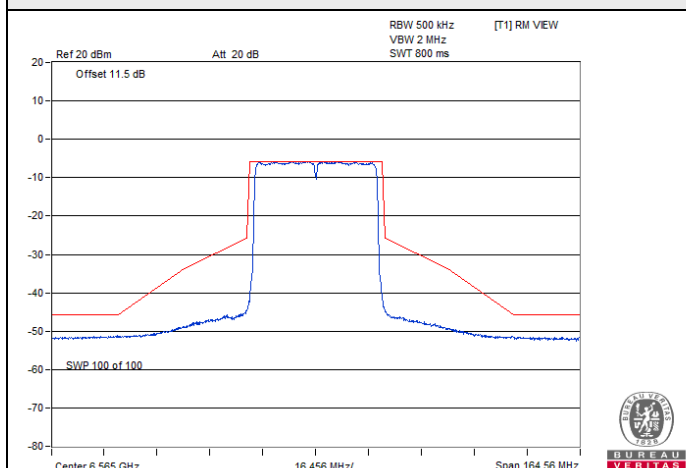


802.11be (EHT40) / Chain 1 : CH 107

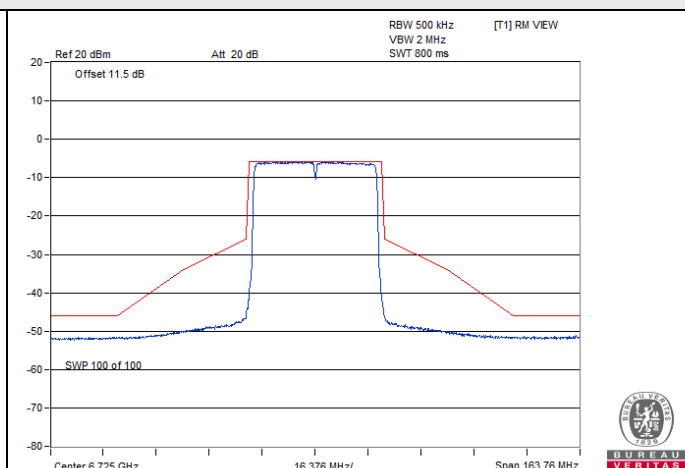


802.11be (EHT40) / Chain 1 : CH 115

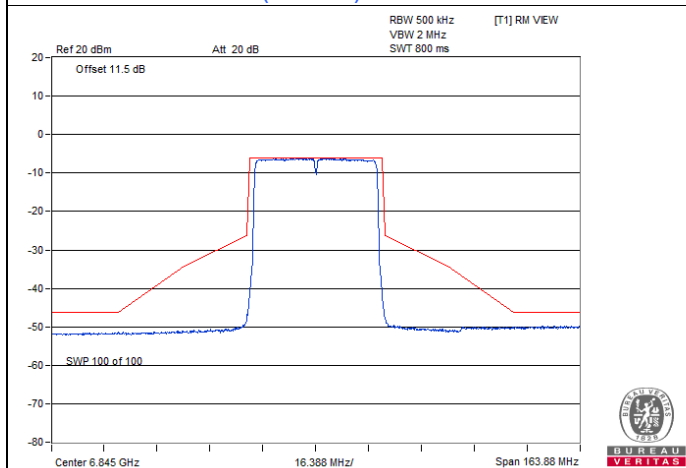
# Spectrum Plot



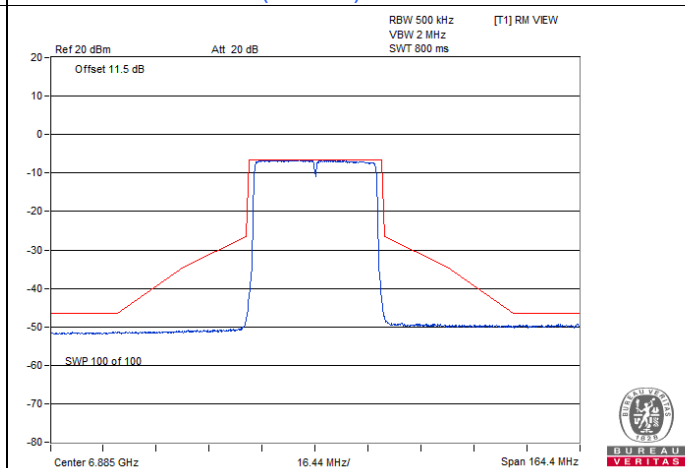
802.11be (EHT40) / Chain 1 : CH 123



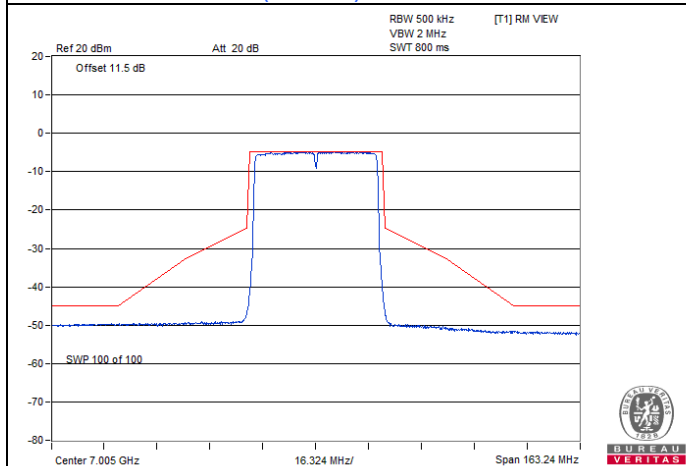
802.11be (EHT40) / Chain 1 : CH 155



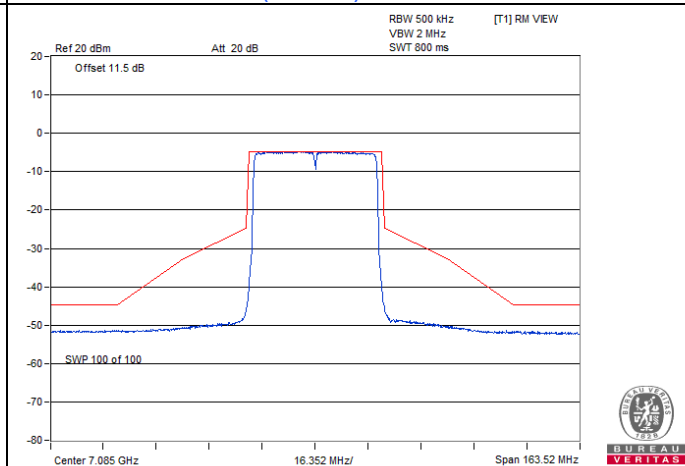
802.11be (EHT40) / Chain 1 : CH 179



802.11be (EHT40) / Chain 1 : CH 187

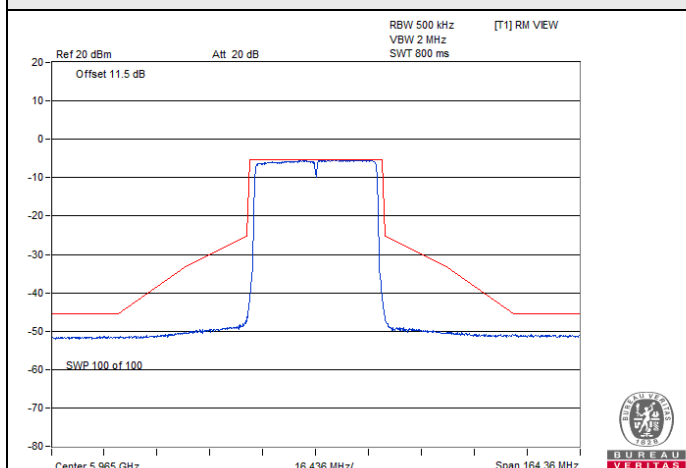


802.11be (EHT40) / Chain 1 : CH 211

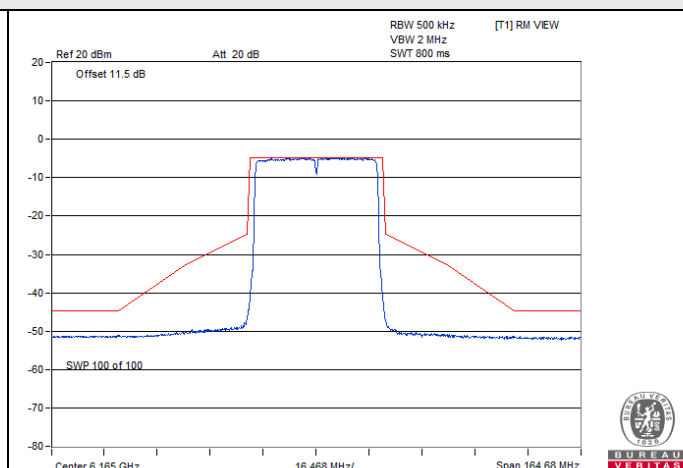


802.11be (EHT40) / Chain 1 : CH 227

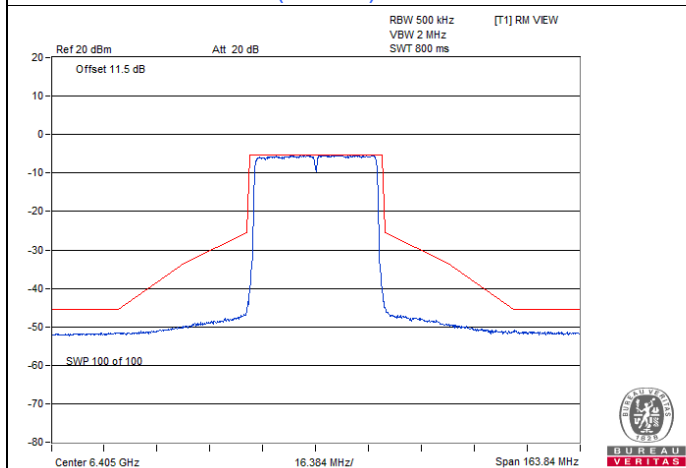
## Spectrum Plot



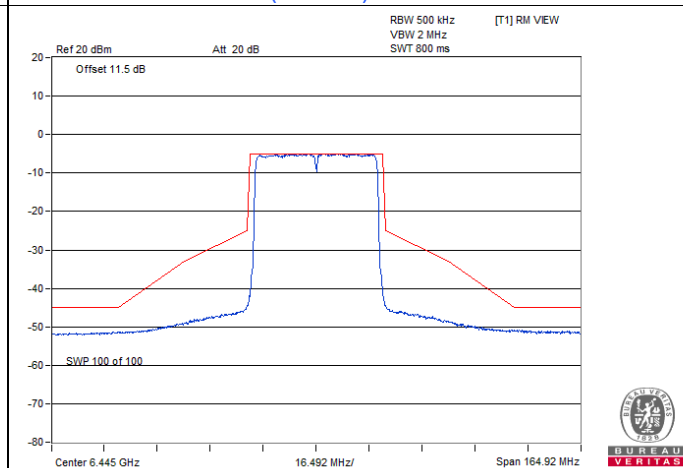
802.11be (EHT40) / Chain 2 : CH 3



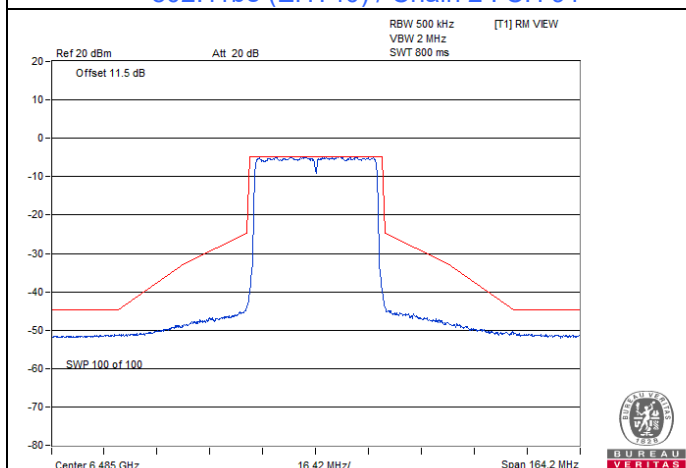
802.11be (EHT40) / Chain 2 : CH 43



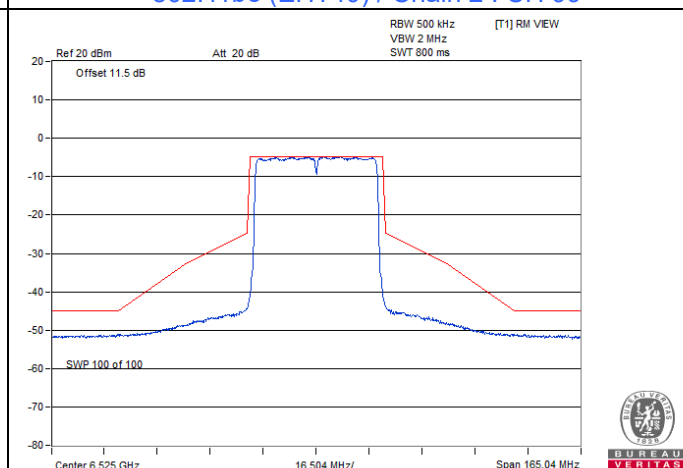
802.11be (EHT40) / Chain 2 : CH 91



802.11be (EHT40) / Chain 2 : CH 99

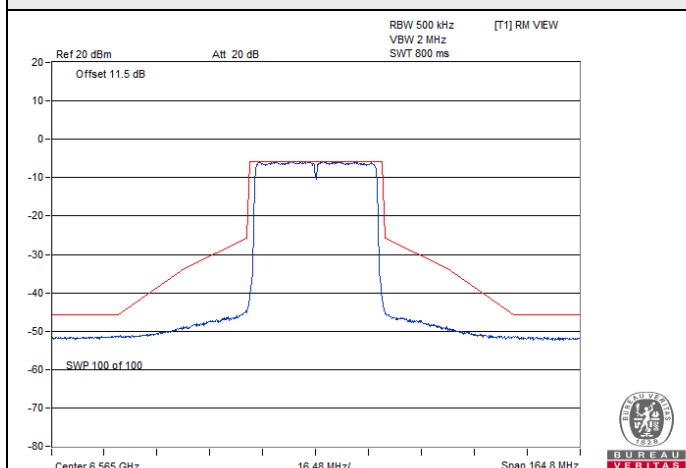


802.11be (EHT40) / Chain 2 : CH 107

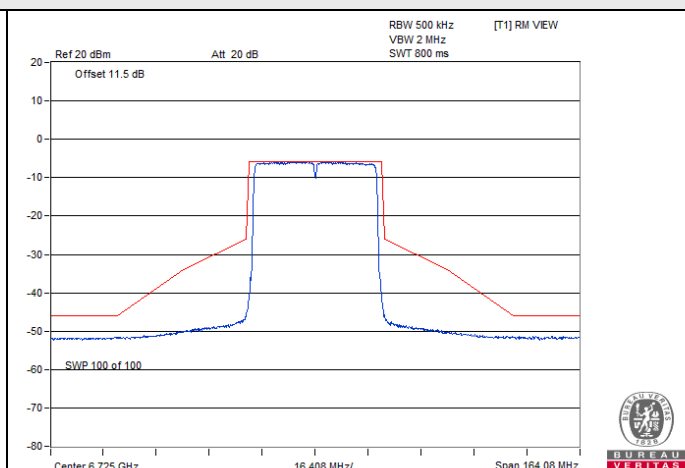


802.11be (EHT40) / Chain 2 : CH 115

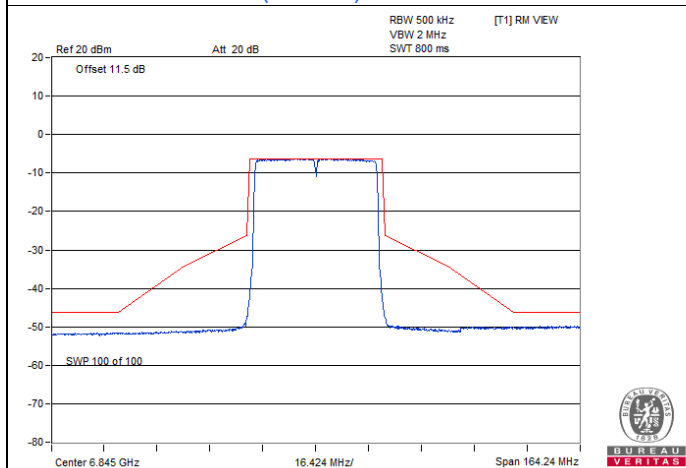
# Spectrum Plot



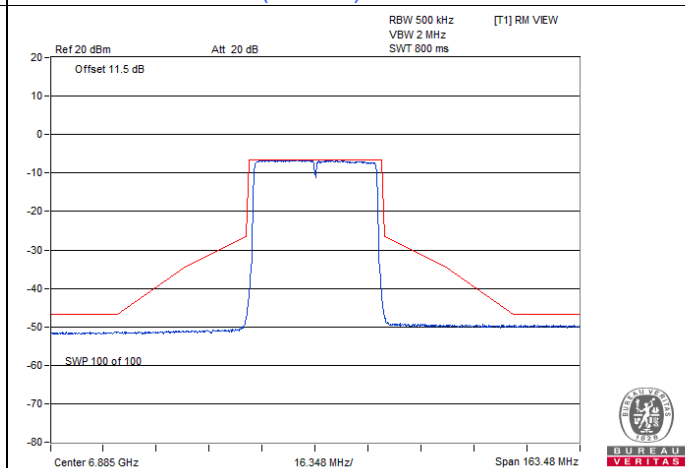
802.11be (EHT40) / Chain 2 : CH 123



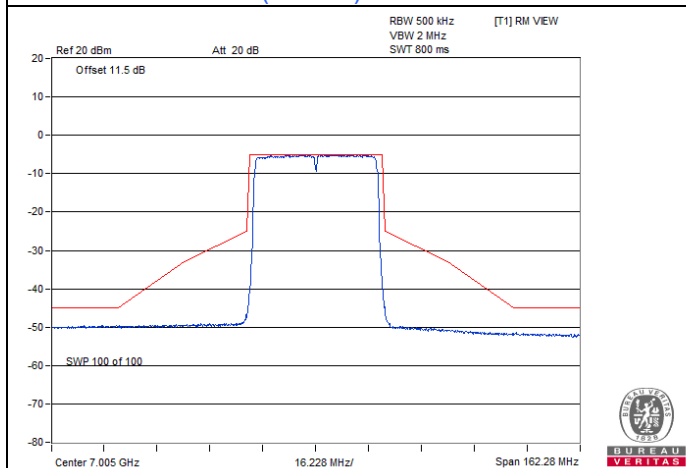
802.11be (EHT40) / Chain 2 : CH 155



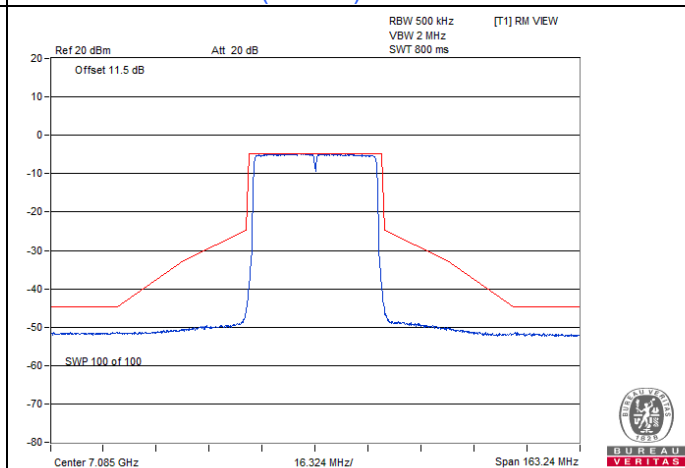
802.11be (EHT40) / Chain 2 : CH 179



802.11be (EHT40) / Chain 2 : CH 187

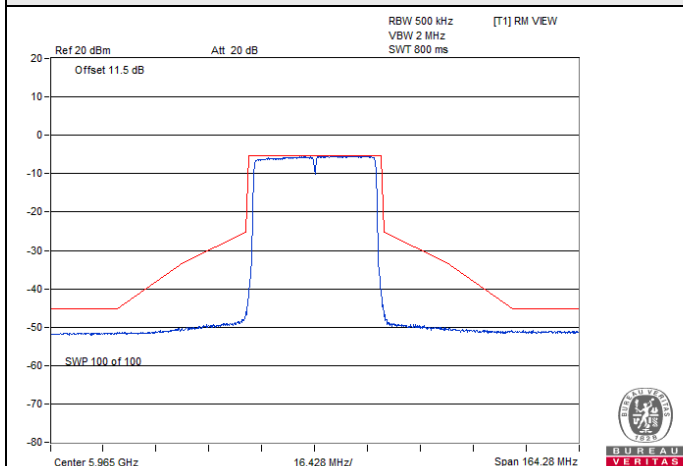


802.11be (EHT40) / Chain 2 : CH 211

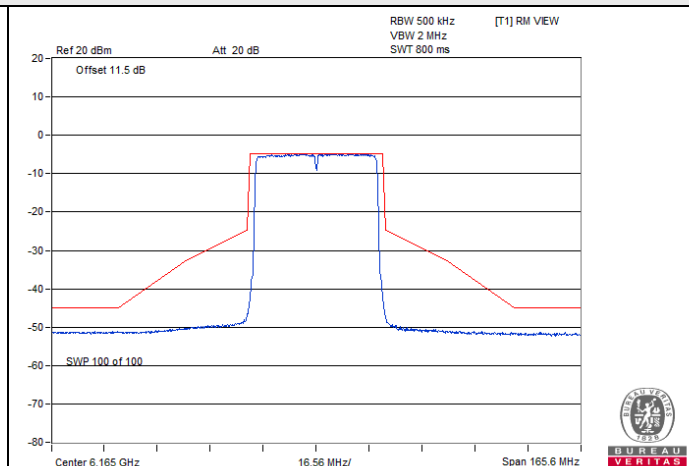


802.11be (EHT40) / Chain 2 : CH 227

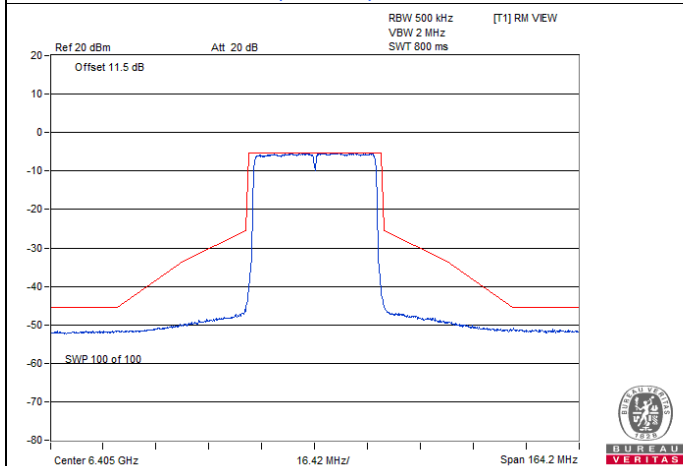
## Spectrum Plot



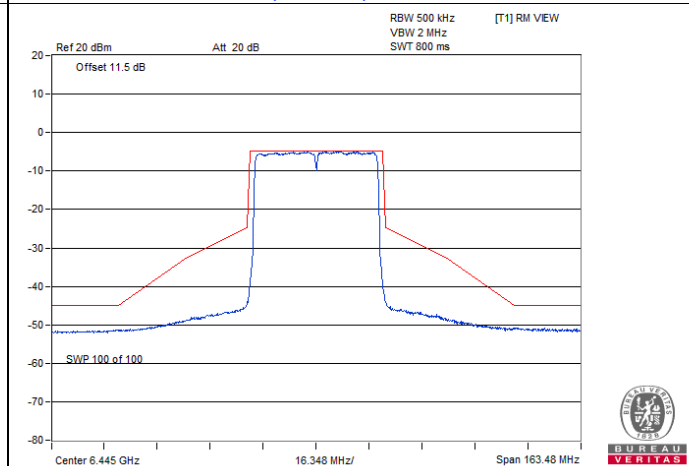
802.11be (EHT40) / Chain 3 : CH 3



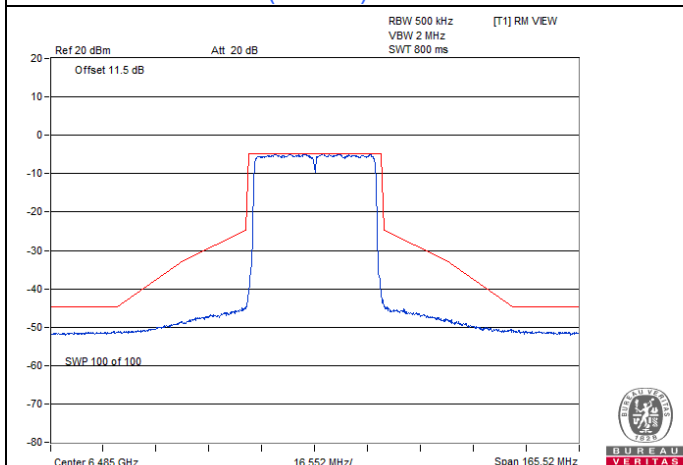
802.11be (EHT40) / Chain 3 : CH 43



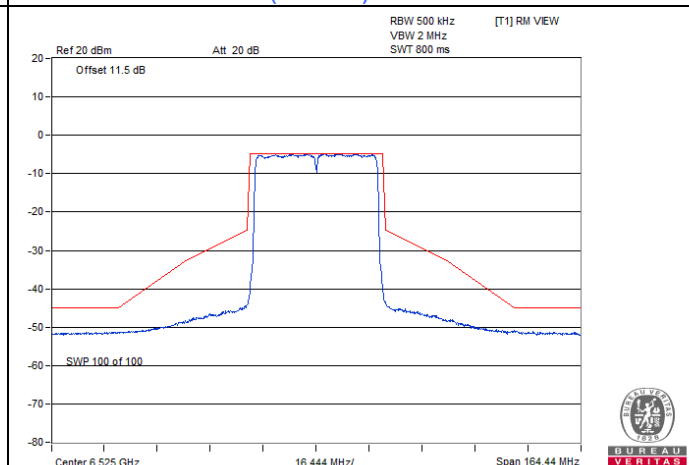
802.11be (EHT40) / Chain 3 : CH 91



802.11be (EHT40) / Chain 3 : CH 99

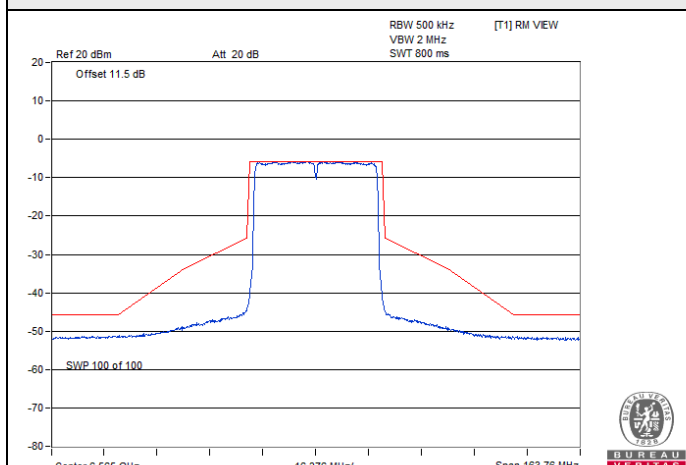


802.11be (EHT40) / Chain 3 : CH 107

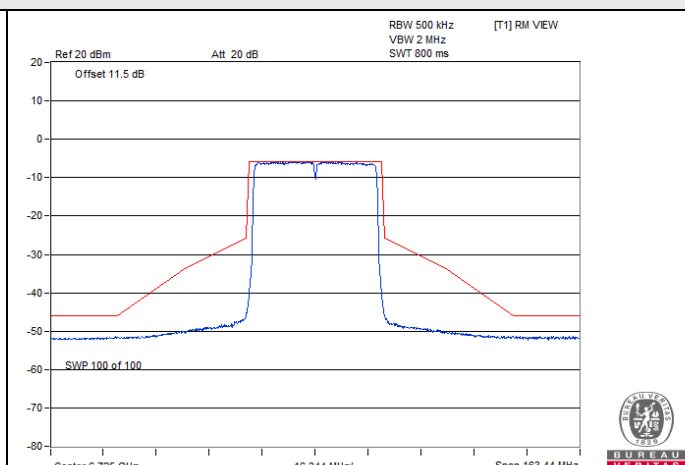


802.11be (EHT40) / Chain 3 : CH 115

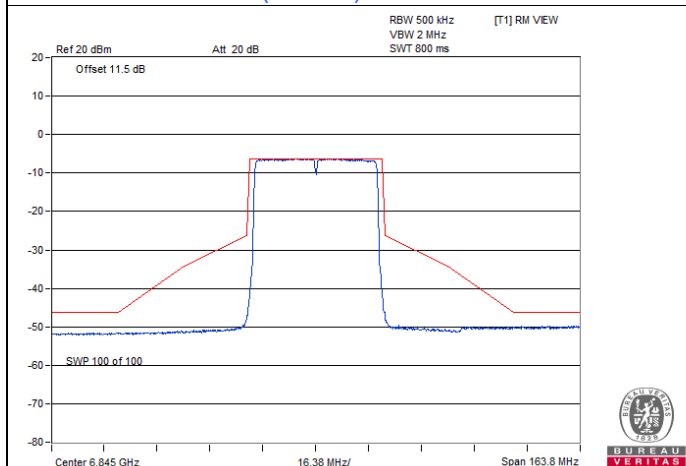
# Spectrum Plot



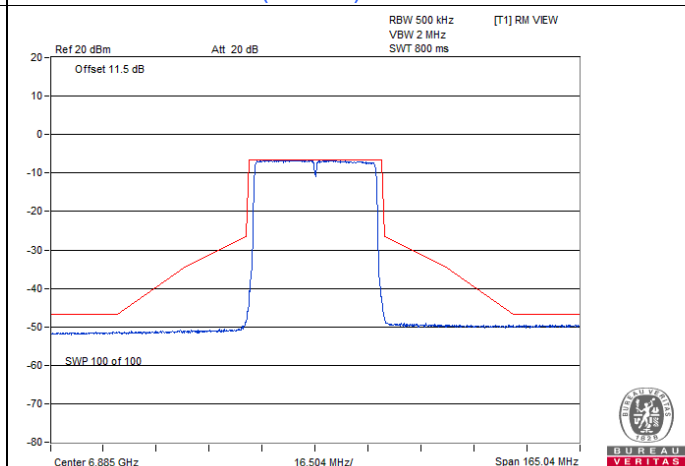
802.11be (EHT40) / Chain 3 : CH 123



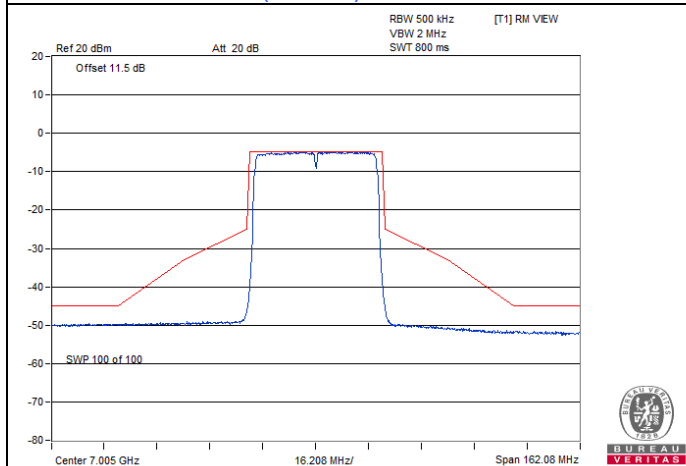
802.11be (EHT40) / Chain 3 : CH 155



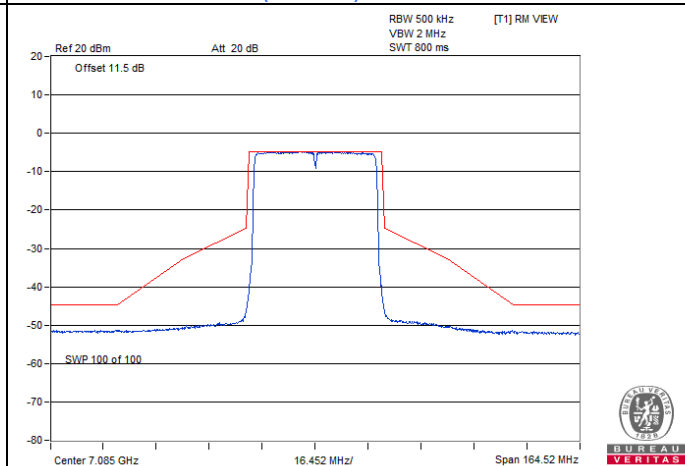
802.11be (EHT40) / Chain 3 : CH 179



802.11be (EHT40) / Chain 3 : CH 187



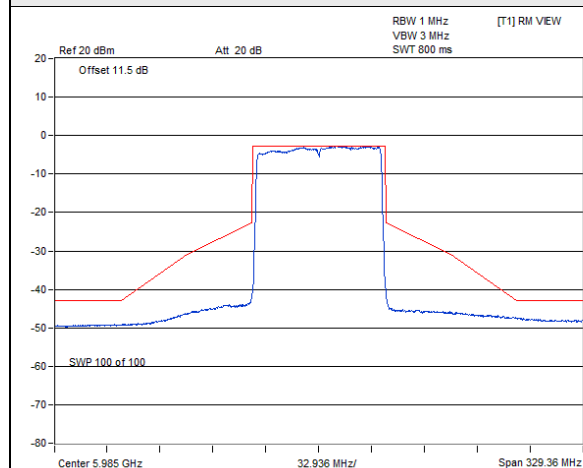
802.11be (EHT40) / Chain 3 : CH 211



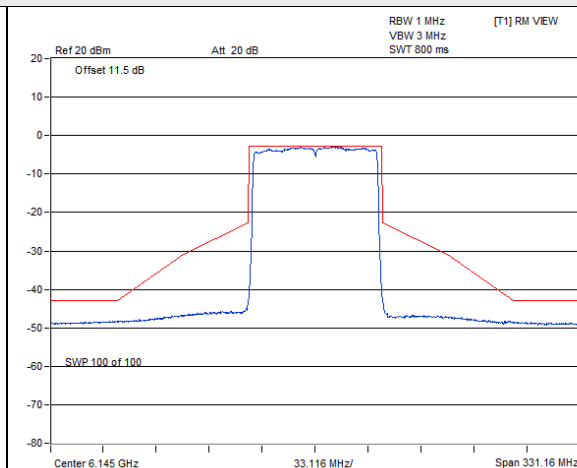
802.11be (EHT40) / Chain 3 : CH 227

## 802.11be (EHT80)

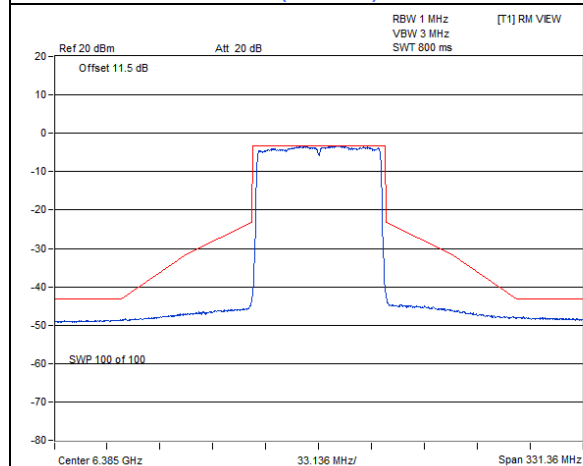
### Spectrum Plot



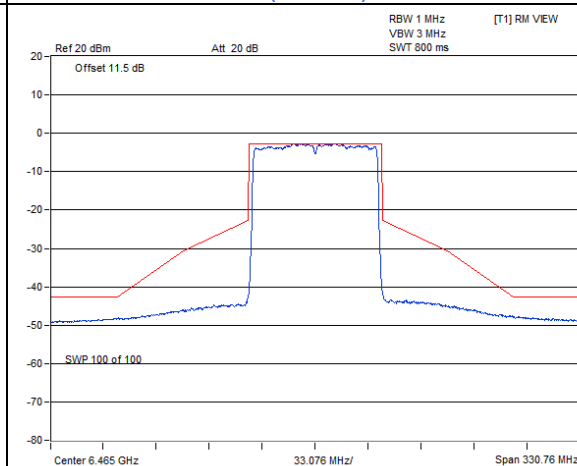
802.11be (EHT80) / Chain 0 : CH 7



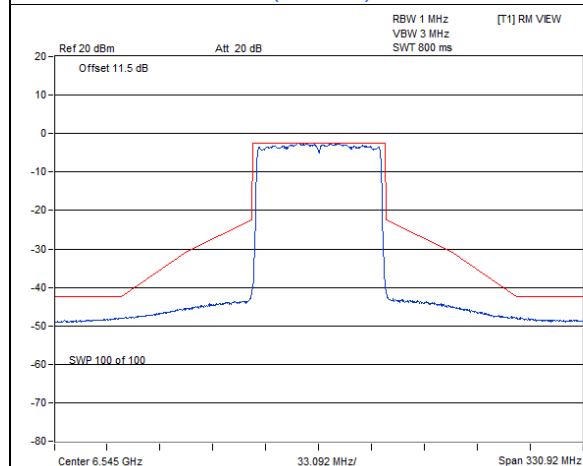
802.11be (EHT80) / Chain 0 : CH 39



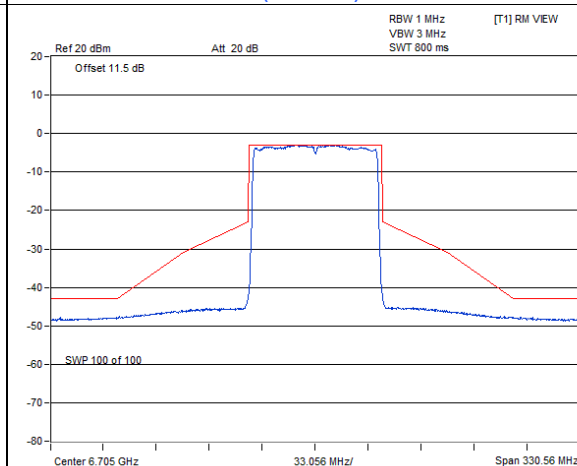
802.11be (EHT80) / Chain 0 : CH 87



802.11be (EHT80) / Chain 0 : CH 103



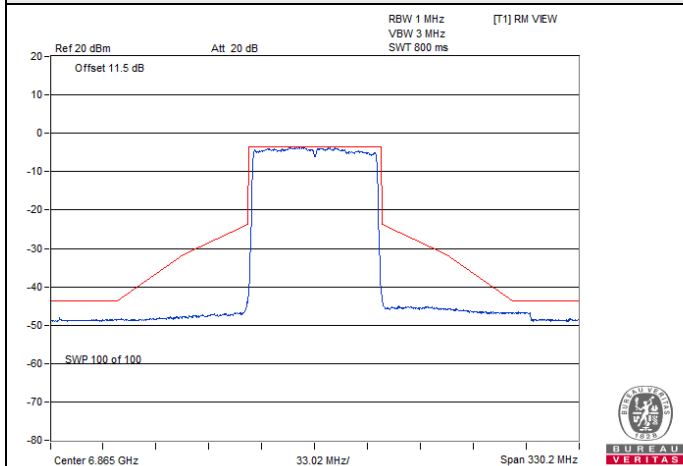
802.11be (EHT80) / Chain 0 : CH 119



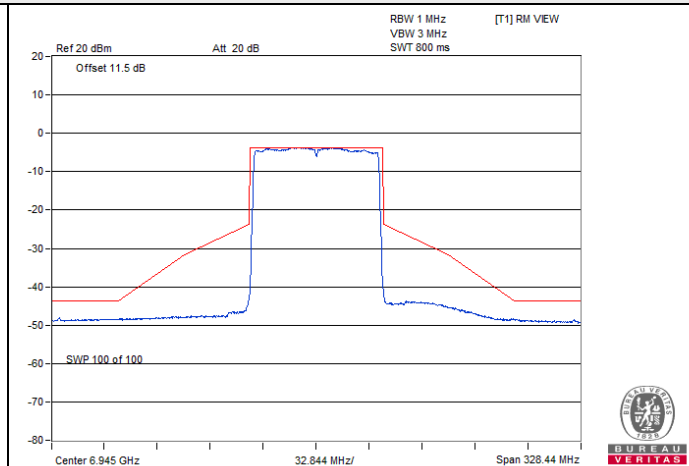
802.11be (EHT80) / Chain 0 : CH 151



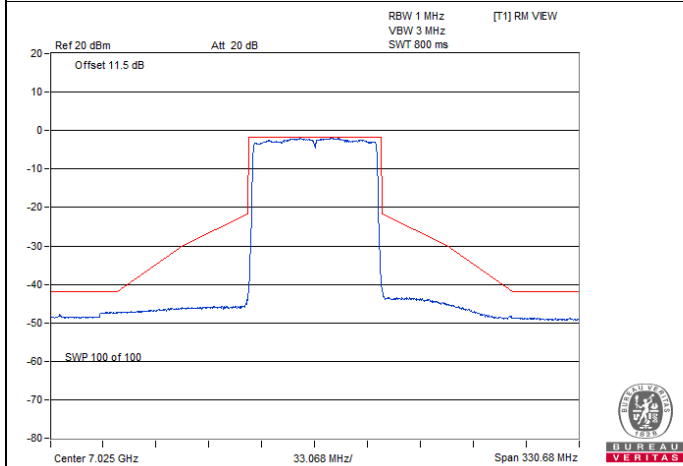
## Spectrum Plot



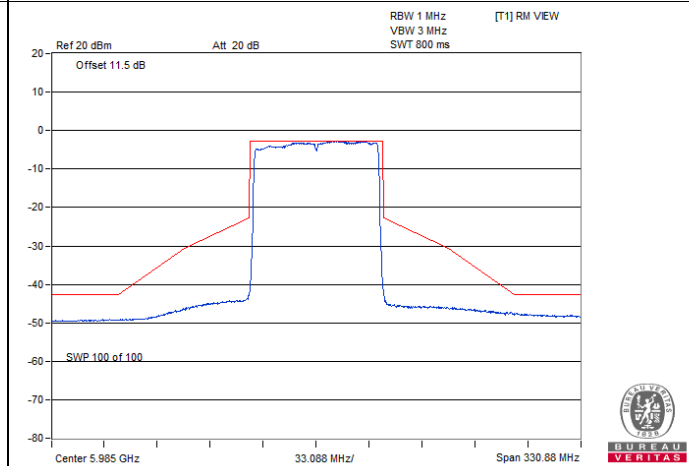
802.11be (EHT80) / Chain 0 : CH 183



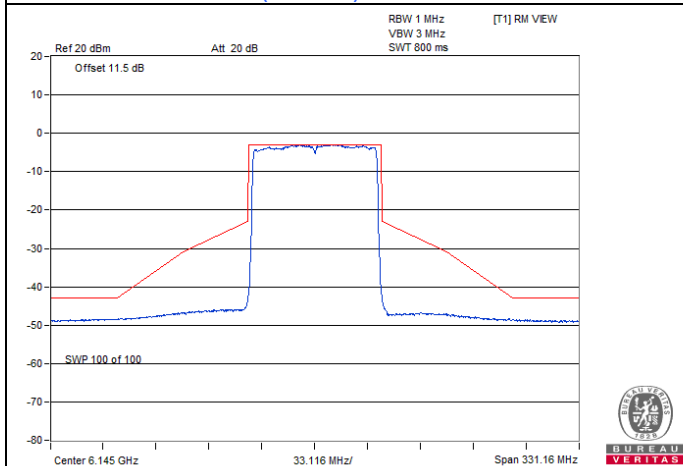
802.11be (EHT80) / Chain 0 : CH 199



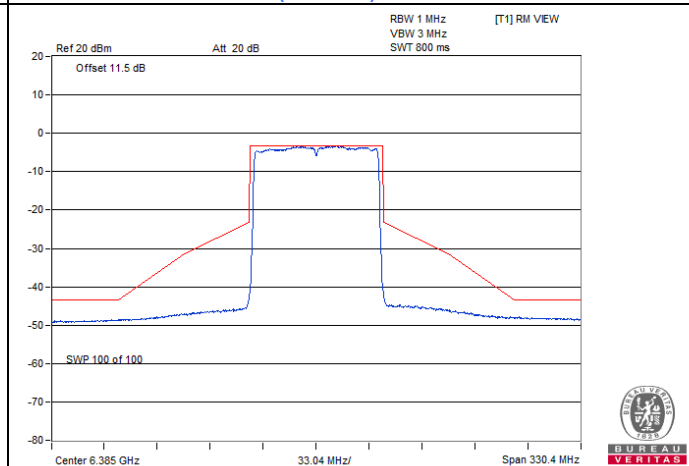
802.11be (EHT80) / Chain 0 : CH 215



802.11be (EHT80) / Chain 1 : CH 7

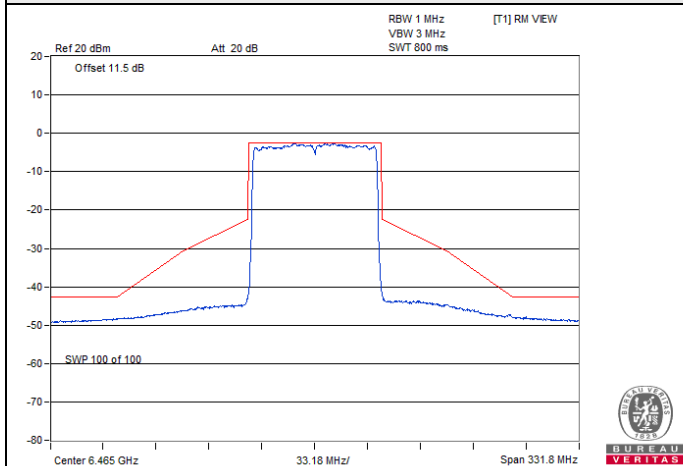


802.11be (EHT80) / Chain 1 : CH 39

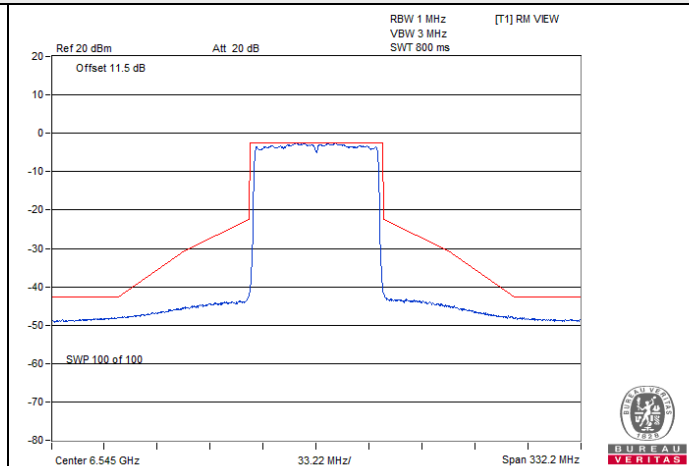


802.11be (EHT80) / Chain 1 : CH 87

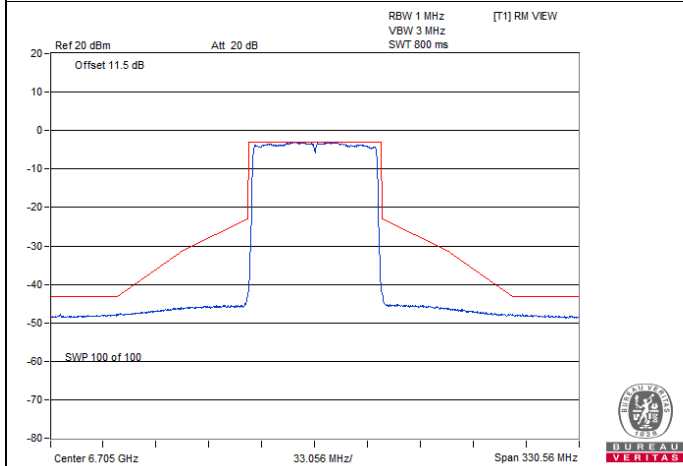
## Spectrum Plot



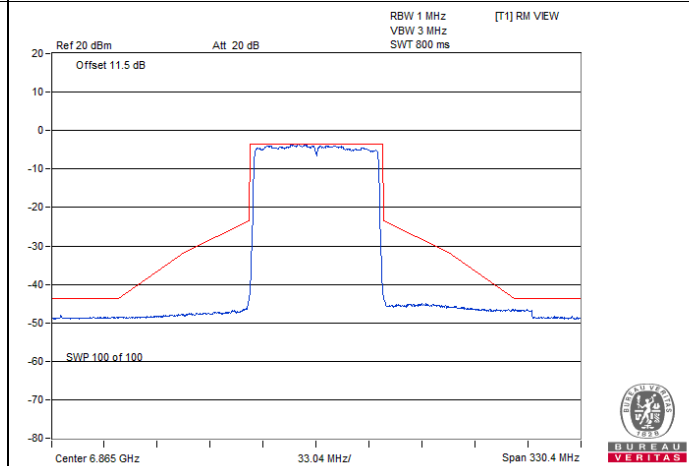
802.11be (EHT80) / Chain 1 : CH 103



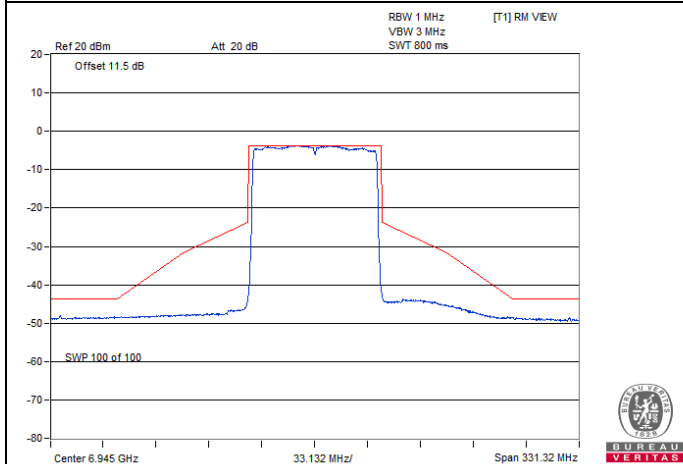
802.11be (EHT80) / Chain 1 : CH 119



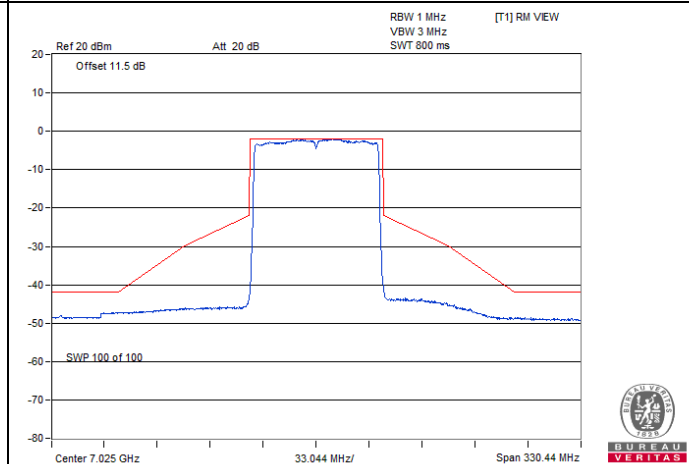
802.11be (EHT80) / Chain 1 : CH 151



802.11be (EHT80) / Chain 1 : CH 183

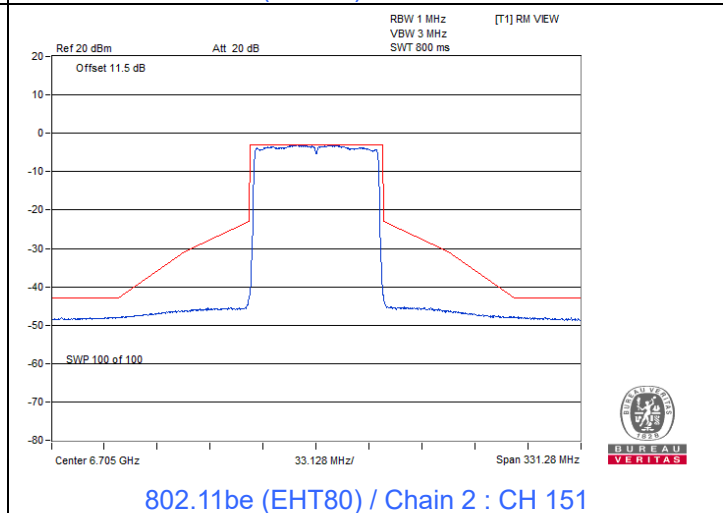
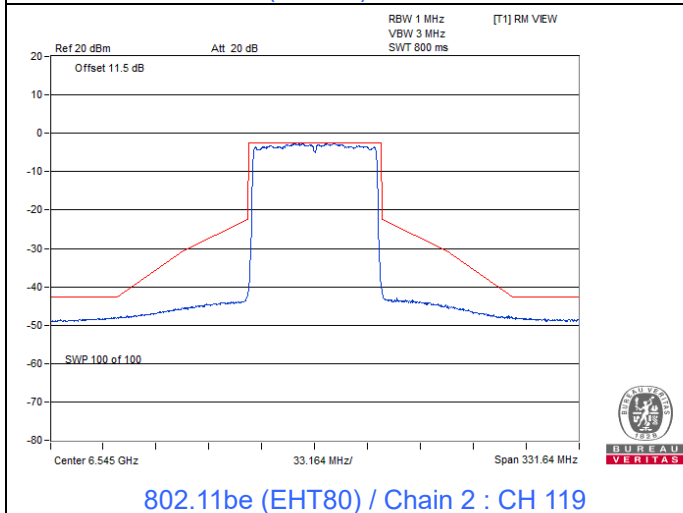
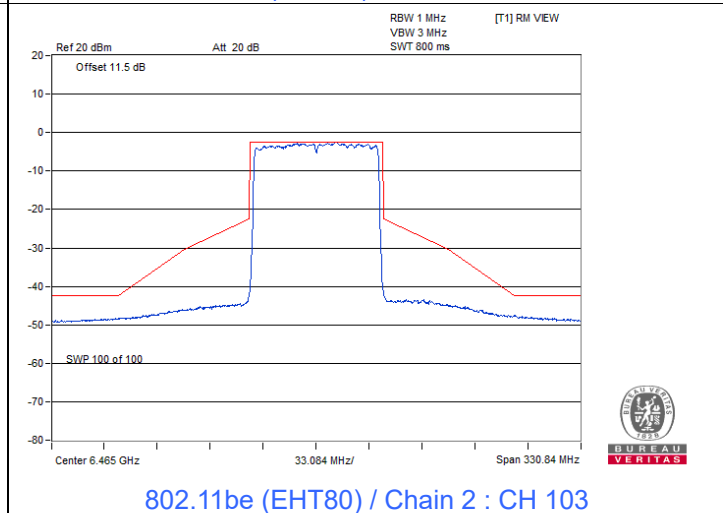
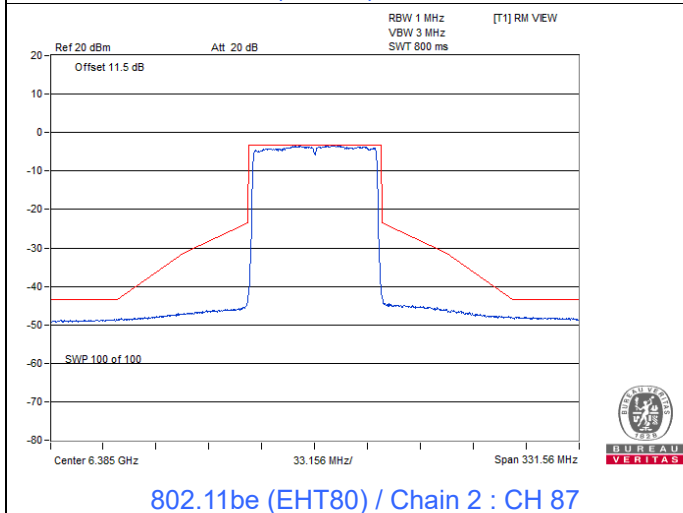
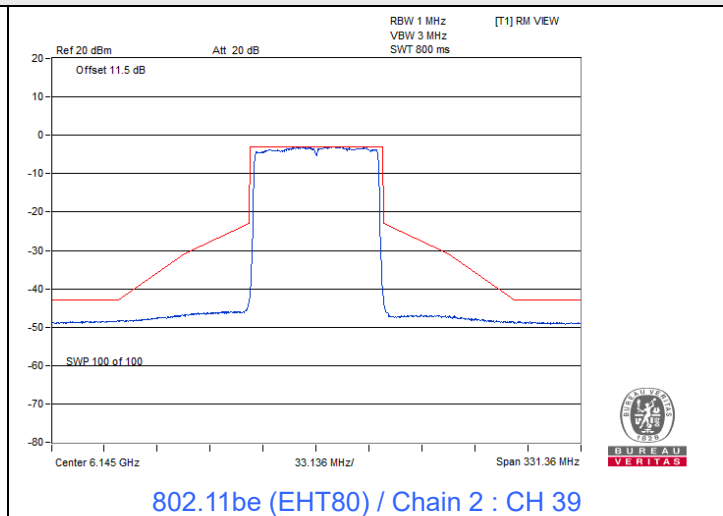
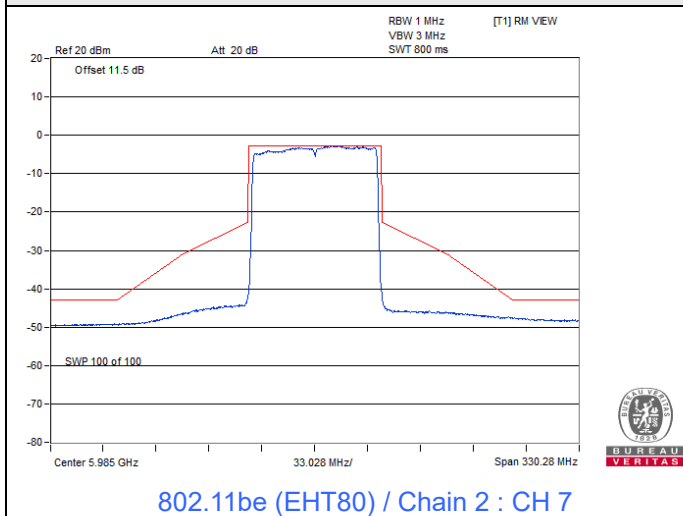


802.11be (EHT80) / Chain 1 : CH 199

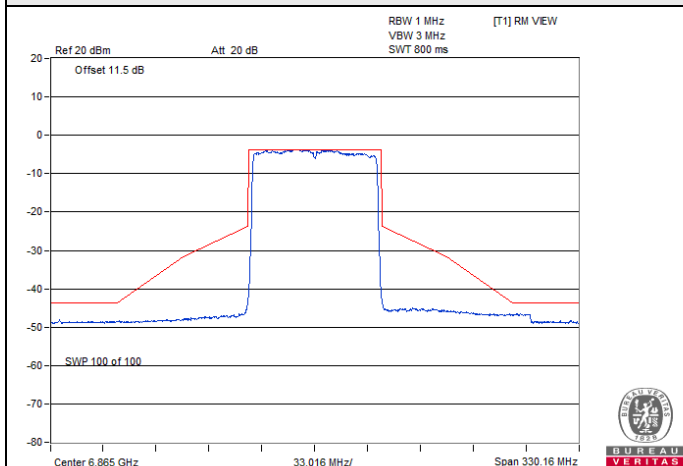


802.11be (EHT80) / Chain 1 : CH 215

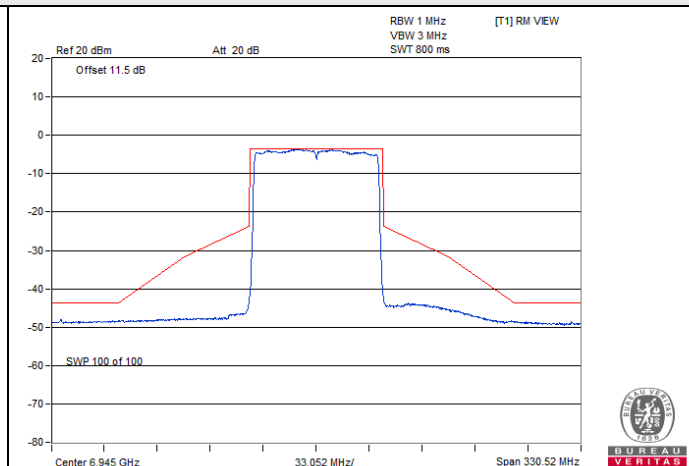
# Spectrum Plot



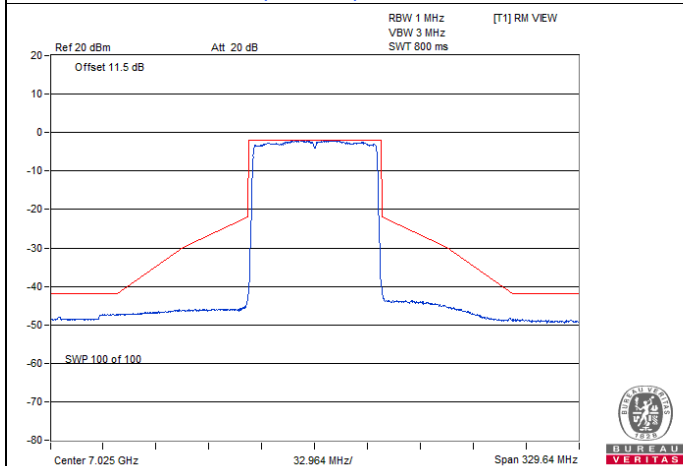
## Spectrum Plot



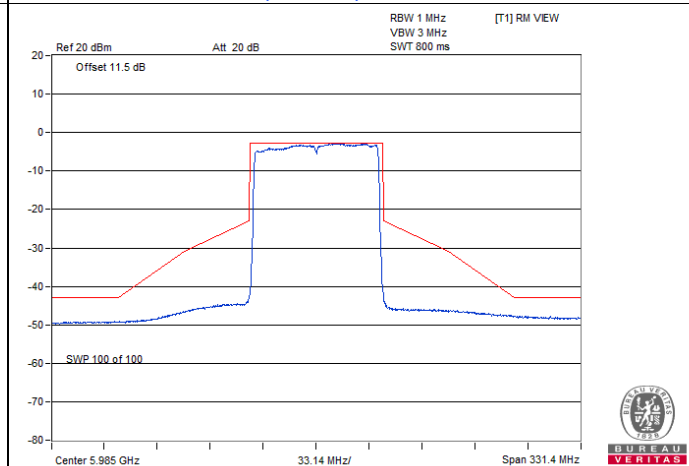
802.11be (EHT80) / Chain 2 : CH 183



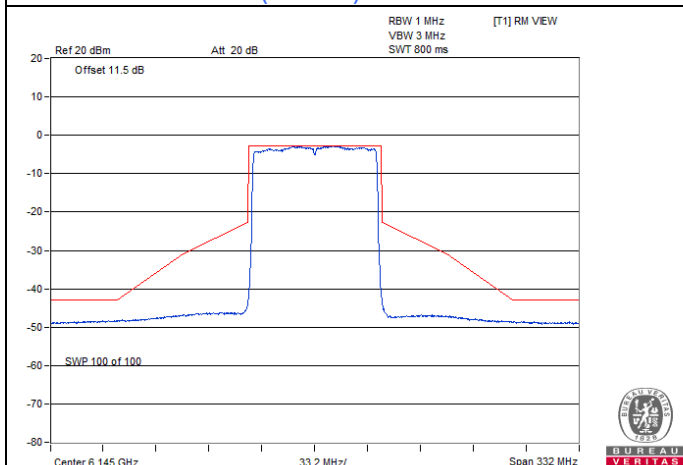
802.11be (EHT80) / Chain 2 : CH 199



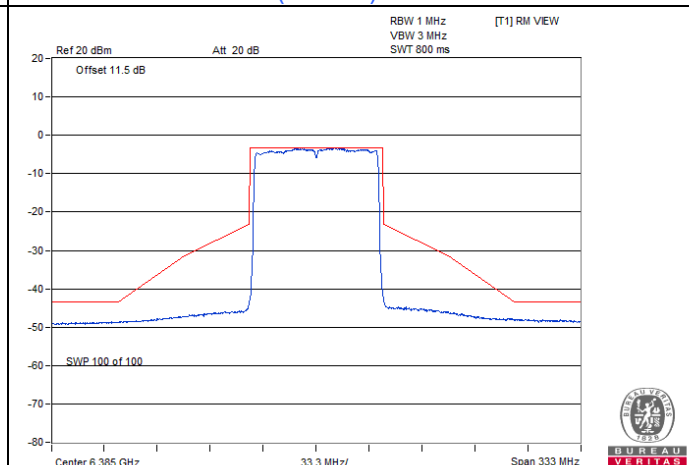
802.11be (EHT80) / Chain 2 : CH 215



802.11be (EHT80) / Chain 3 : CH 7

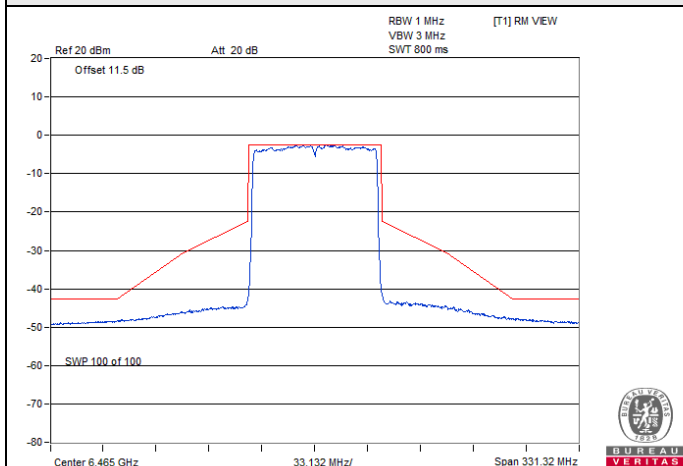


802.11be (EHT80) / Chain 3 : CH 39

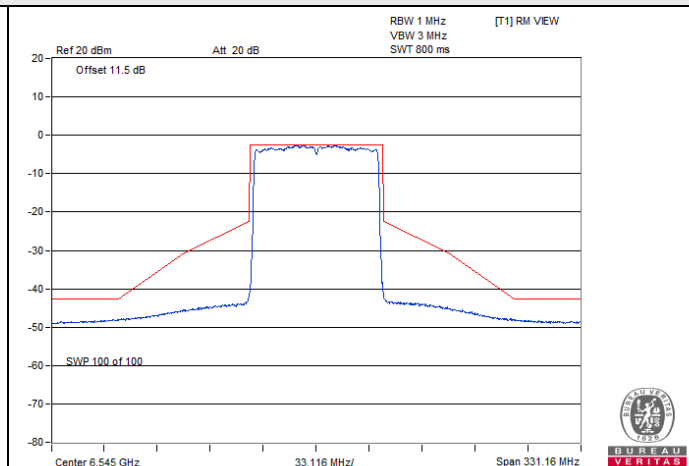


802.11be (EHT80) / Chain 3 : CH 87

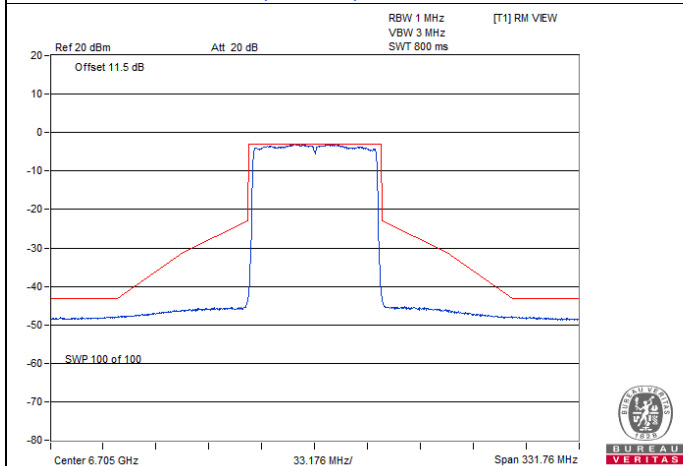
## Spectrum Plot



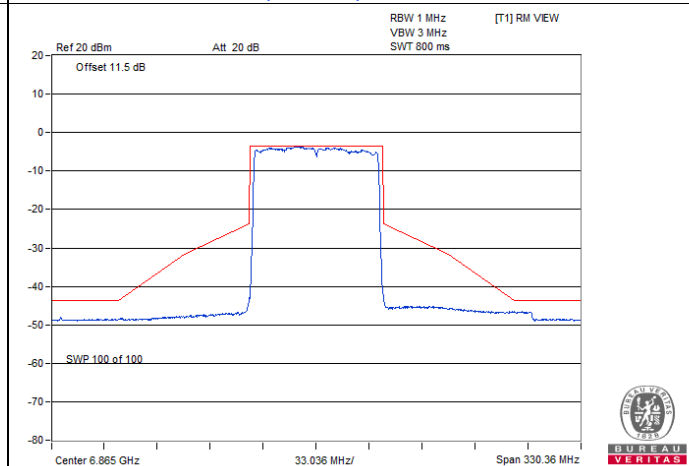
802.11be (EHT80) / Chain 3 : CH 103



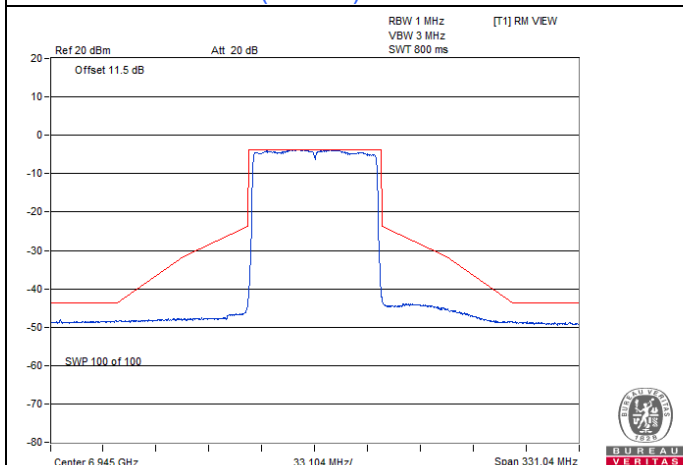
802.11be (EHT80) / Chain 3 : CH 119



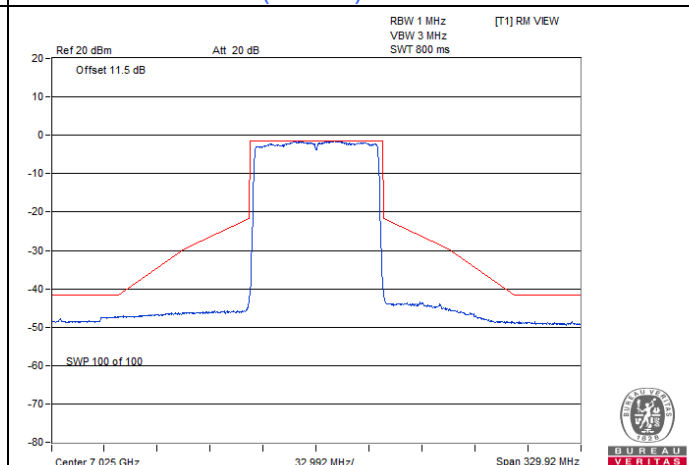
802.11be (EHT80) / Chain 3 : CH 151



802.11be (EHT80) / Chain 3 : CH 183



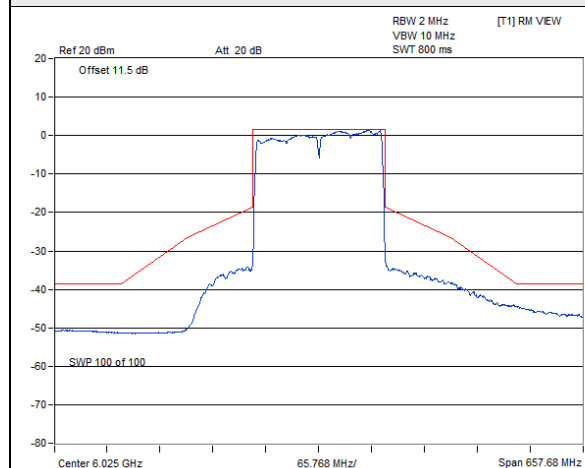
802.11be (EHT80) / Chain 3 : CH 199



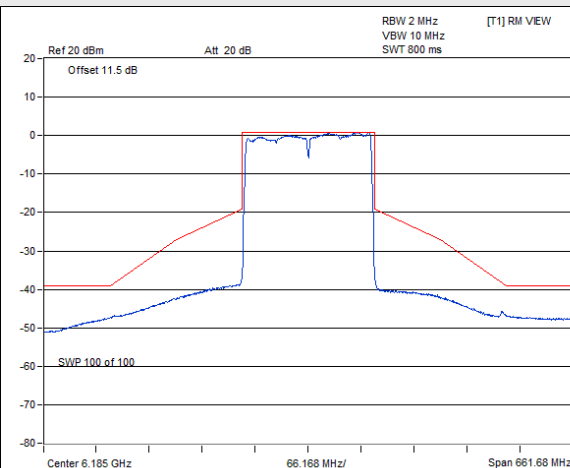
802.11be (EHT80) / Chain 3 : CH 215

## 802.11be (EHT160)

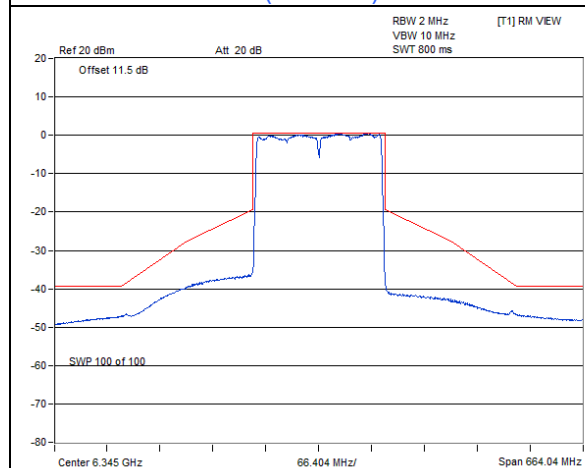
### Spectrum Plot



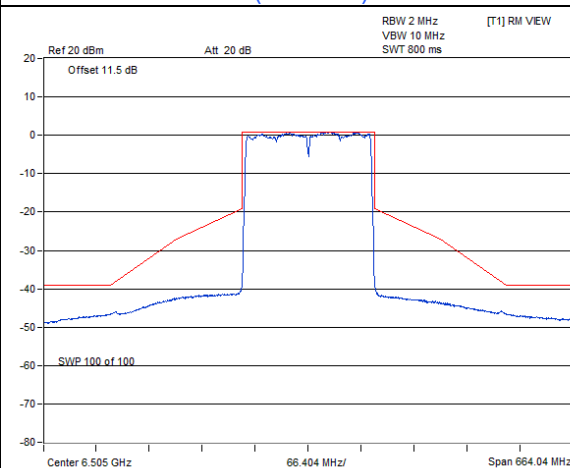
802.11be (EHT160) / Chain 0 : CH 15



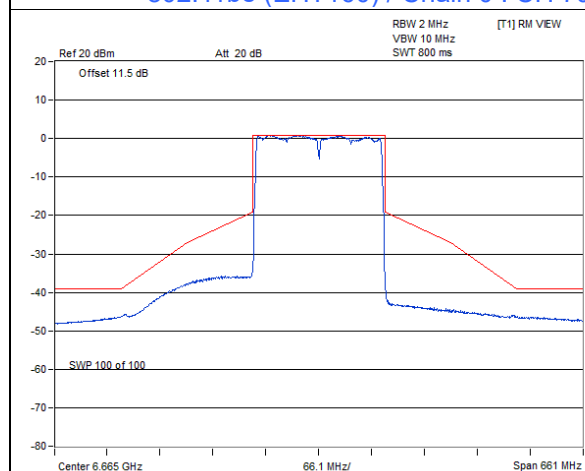
802.11be (EHT160) / Chain 0 : CH 47



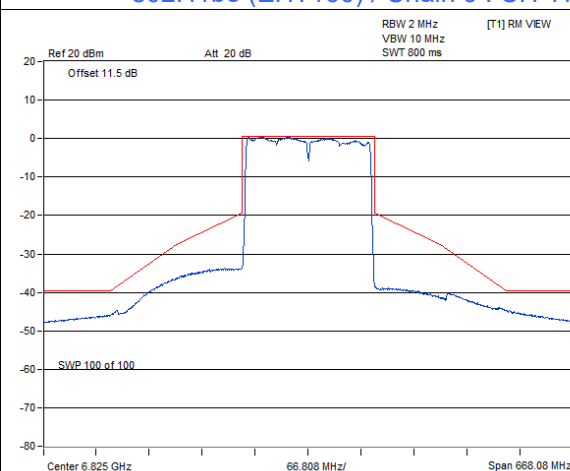
802.11be (EHT160) / Chain 0 : CH 79



802.11be (EHT160) / Chain 0 : CH 111



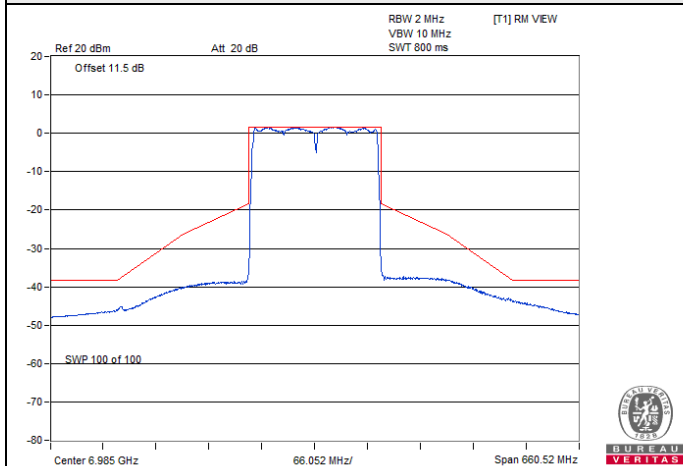
802.11be (EHT160) / Chain 0 : CH 143



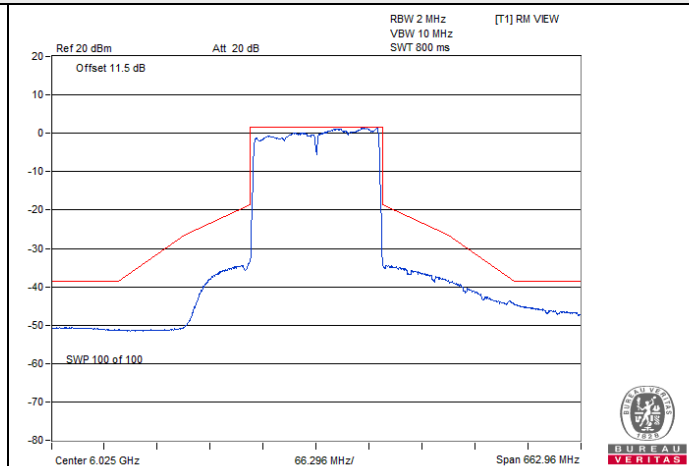
802.11be (EHT160) / Chain 0 : CH 175



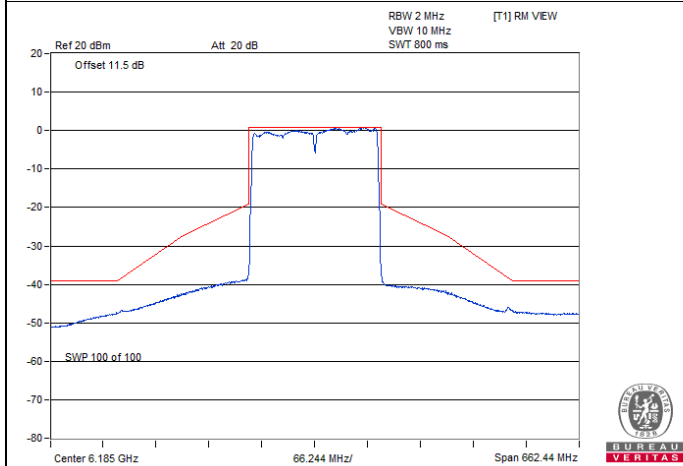
## Spectrum Plot



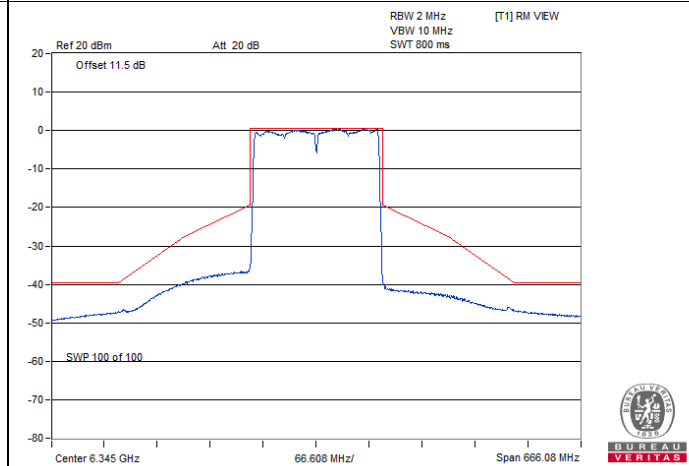
802.11be (EHT160) / Chain 0 : CH 207



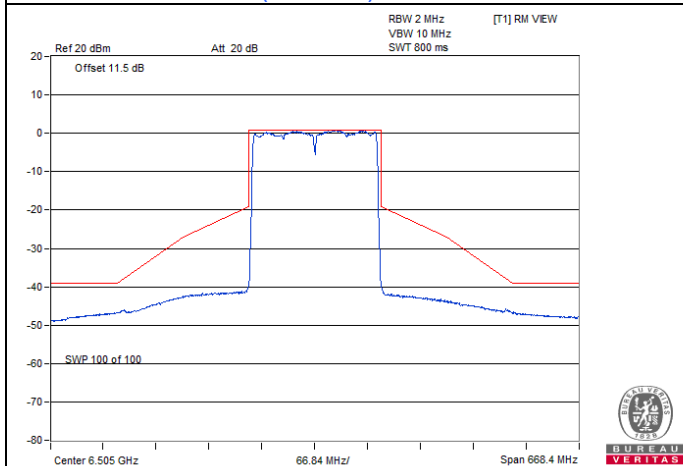
802.11be (EHT160) / Chain 1 : CH 15



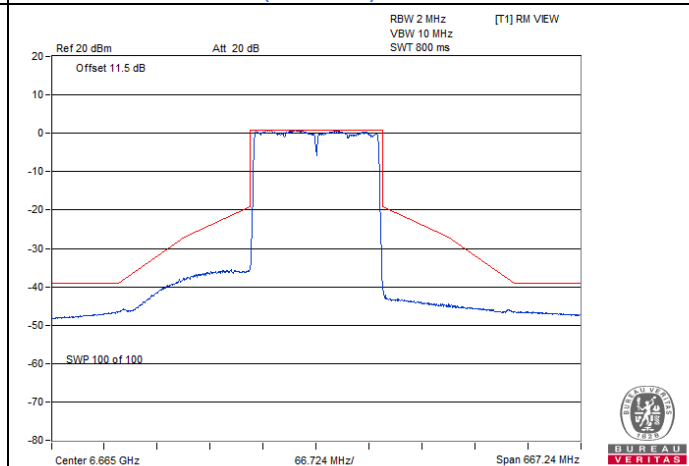
802.11be (EHT160) / Chain 1 : CH 47



802.11be (EHT160) / Chain 1 : CH 79

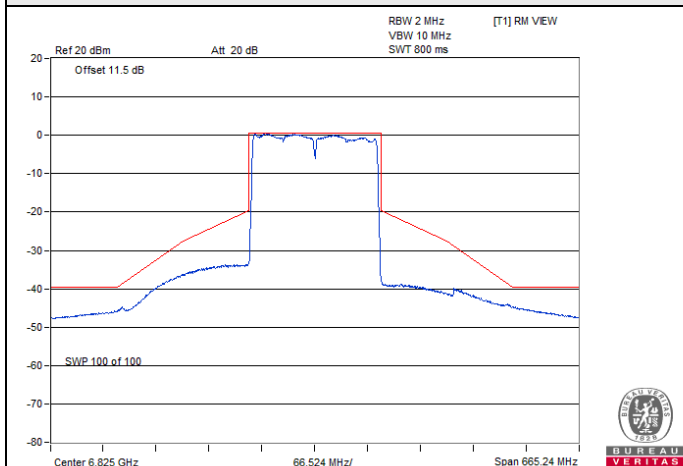


802.11be (EHT160) / Chain 1 : CH 111

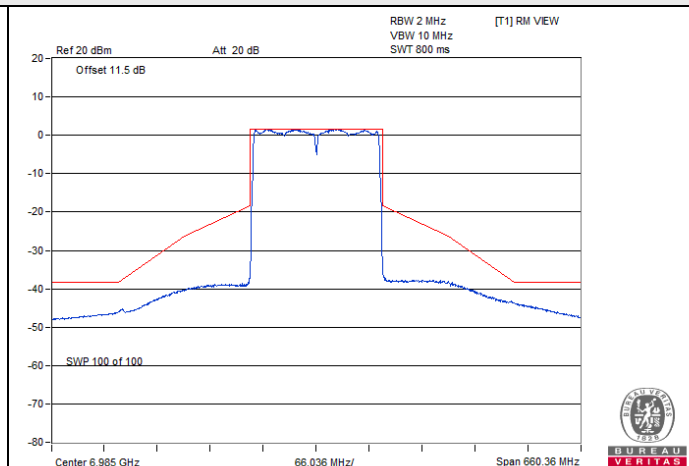


802.11be (EHT160) / Chain 1 : CH 143

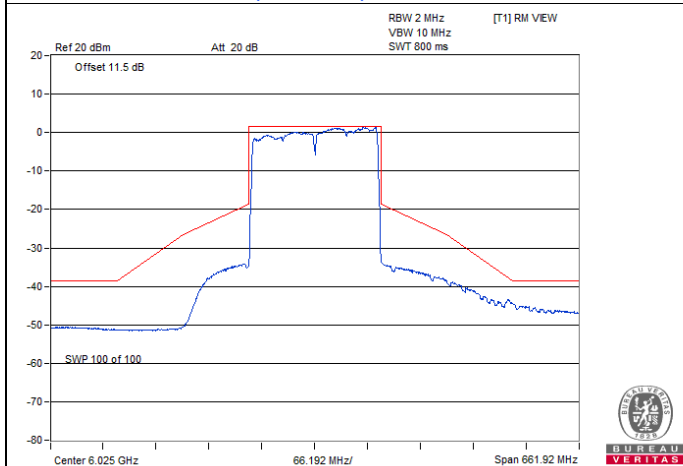
## Spectrum Plot



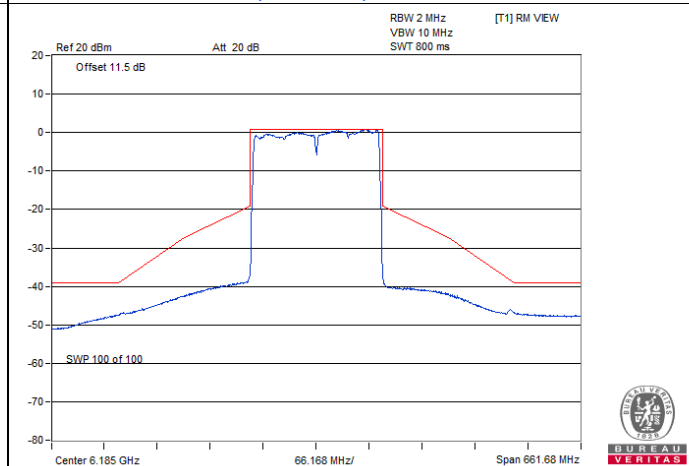
802.11be (EHT160) / Chain 1 : CH 175



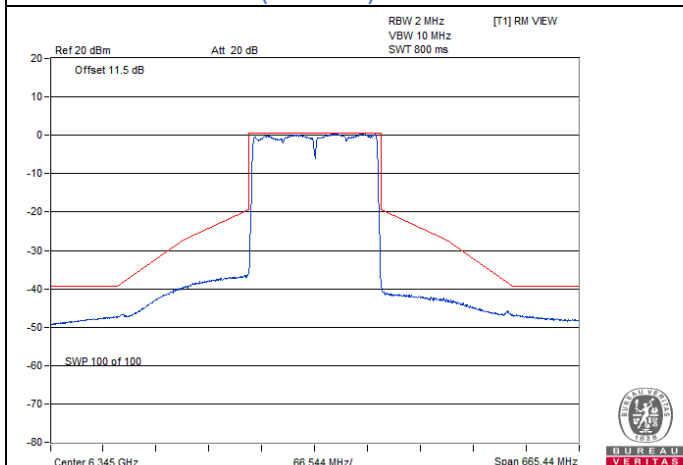
802.11be (EHT160) / Chain 1 : CH 207



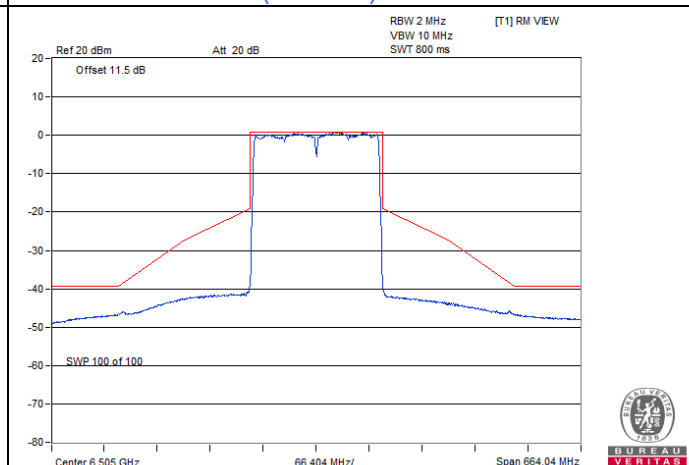
802.11be (EHT160) / Chain 2 : CH 15



802.11be (EHT160) / Chain 2 : CH 47

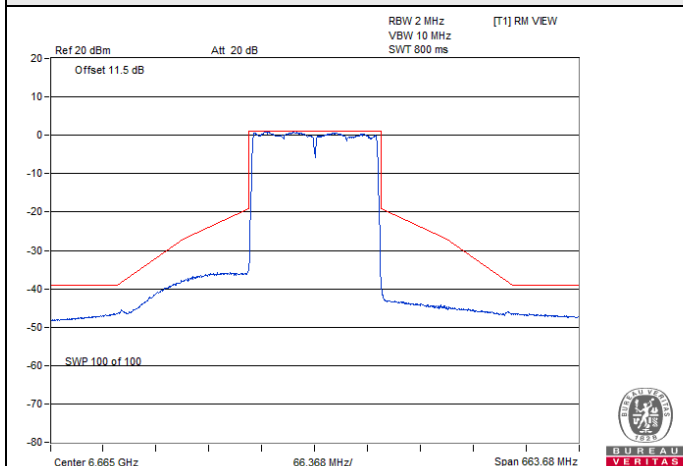


802.11be (EHT160) / Chain 2 : CH 79

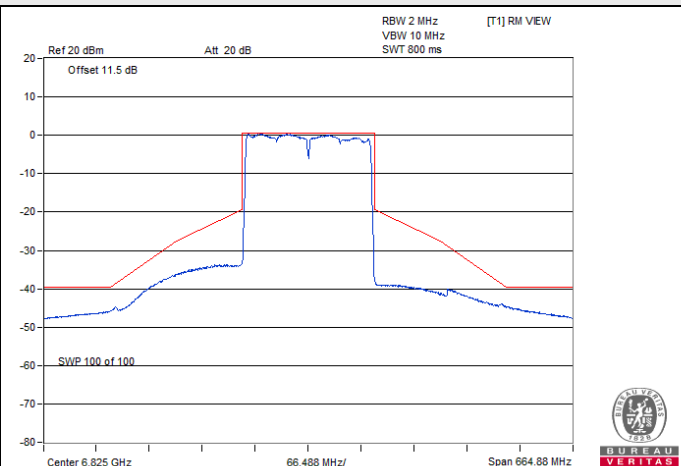


802.11be (EHT160) / Chain 2 : CH 111

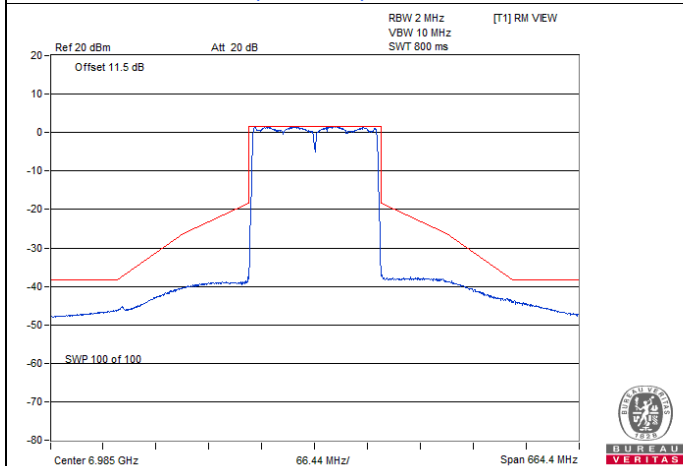
## Spectrum Plot



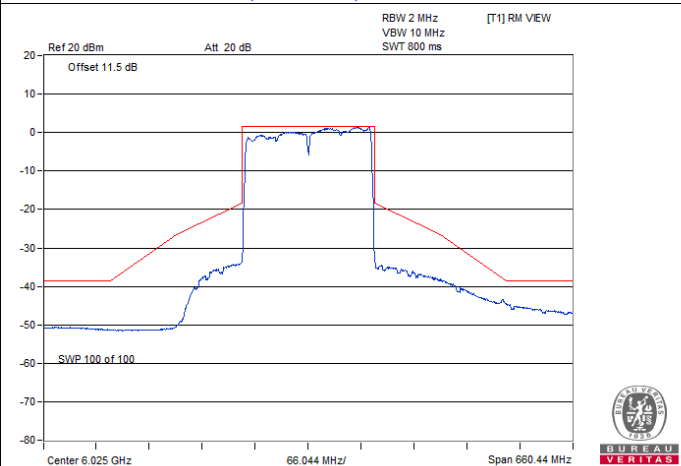
802.11be (EHT160) / Chain 2 : CH 143



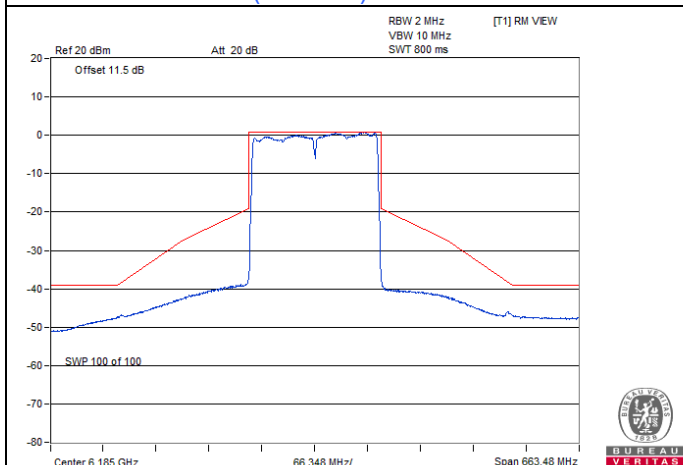
802.11be (EHT160) / Chain 2 : CH 175



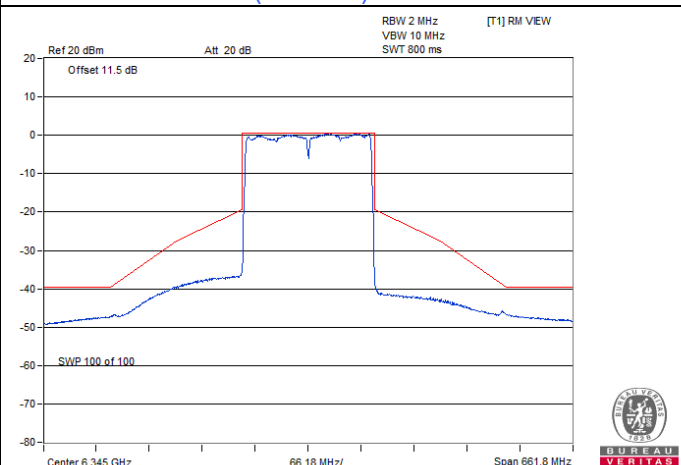
802.11be (EHT160) / Chain 2 : CH 207



802.11be (EHT160) / Chain 3 : CH 15

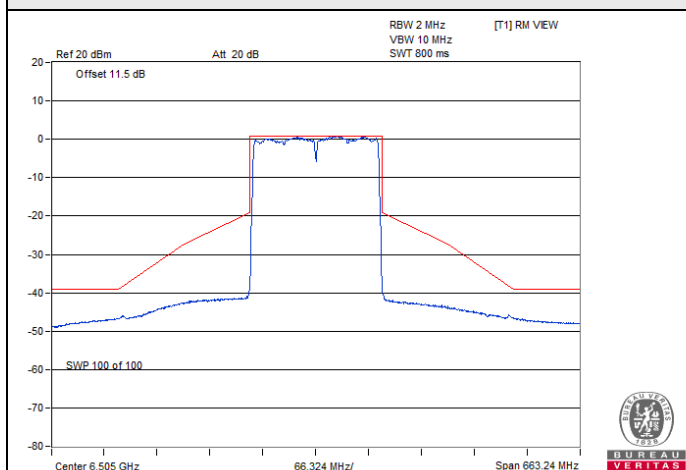


802.11be (EHT160) / Chain 3 : CH 47

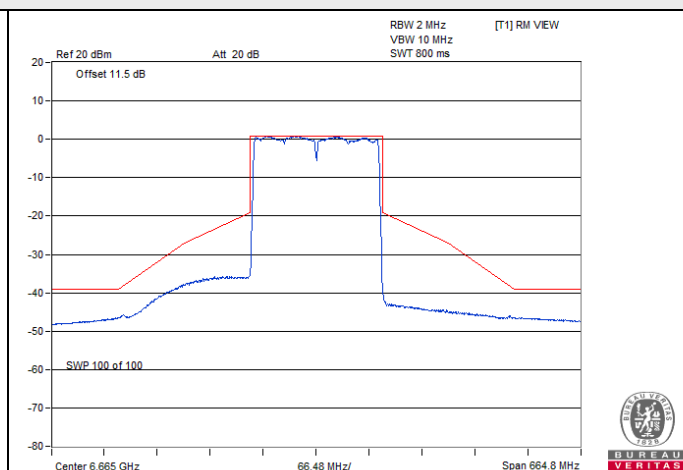


802.11be (EHT160) / Chain 3 : CH 79

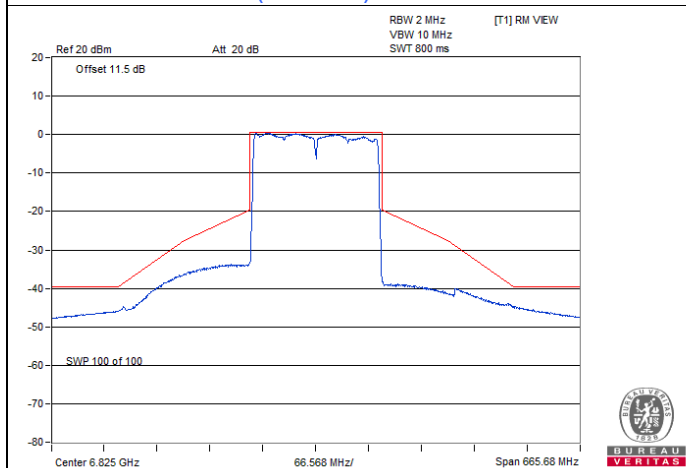
## Spectrum Plot



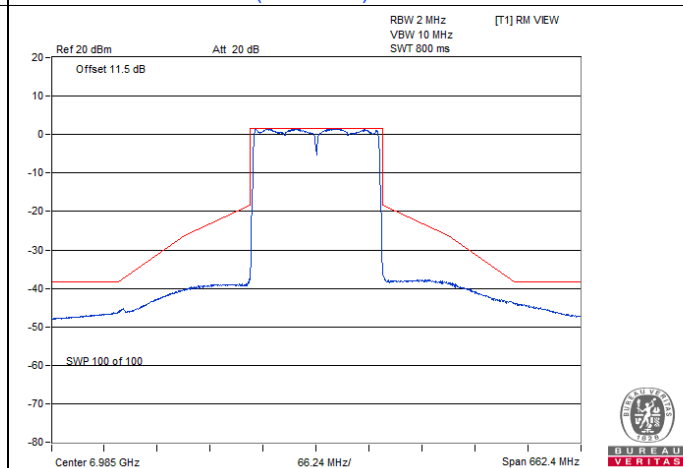
802.11be (EHT160) / Chain 3 : CH 111



802.11be (EHT160) / Chain 3 : CH 143



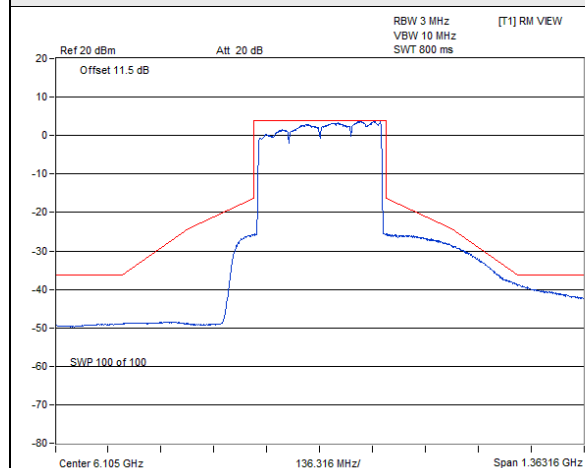
802.11be (EHT160) / Chain 3 : CH 175



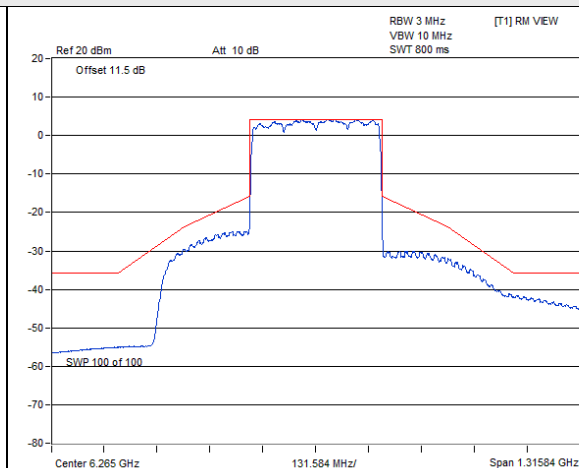
802.11be (EHT160) / Chain 3 : CH 207

## 802.11be (EHT320)

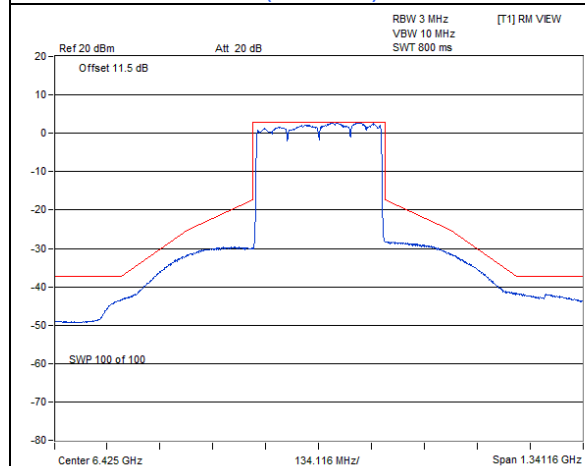
### Spectrum Plot



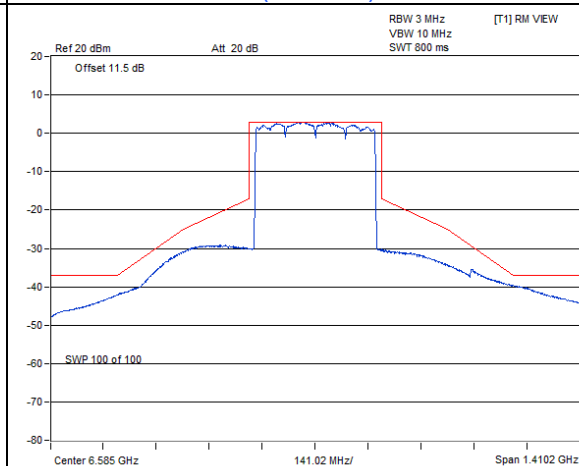
802.11be (EHT320) / Chain 0 : CH 31



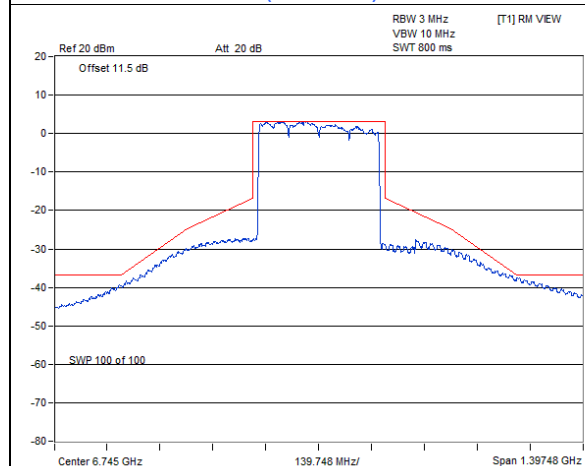
802.11be (EHT320) / Chain 0 : CH 63



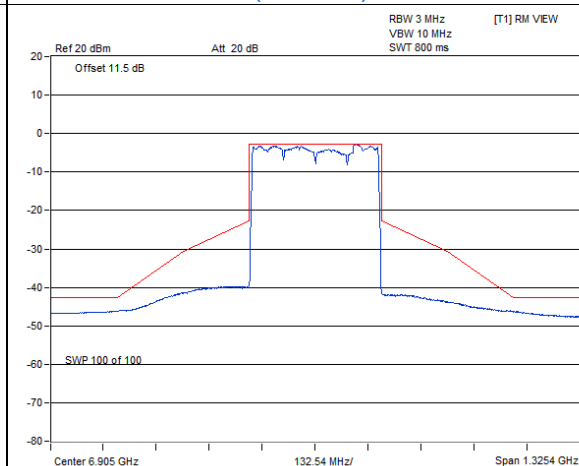
802.11be (EHT320) / Chain 0 : CH 95



802.11be (EHT320) / Chain 0 : CH 127

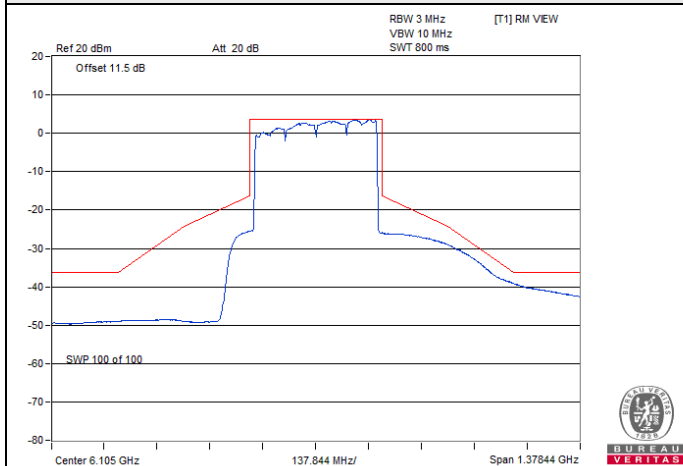


802.11be (EHT320) / Chain 0 : CH 159

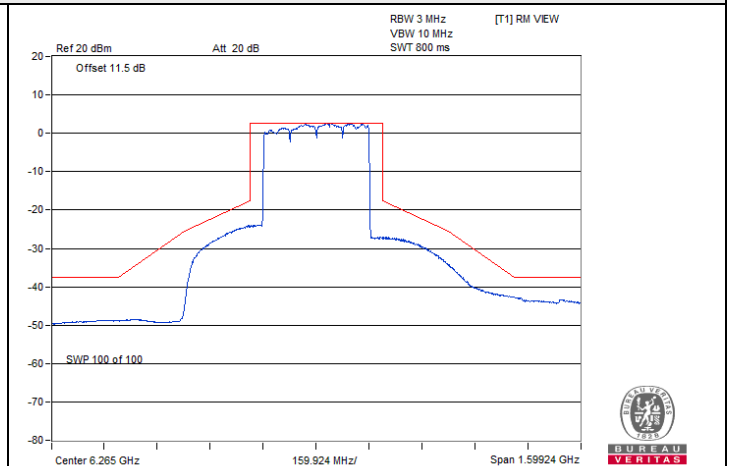


802.11be (EHT320) / Chain 0 : CH 191

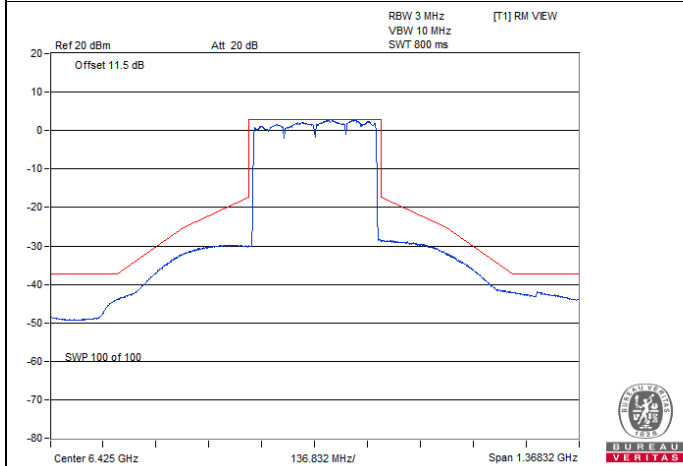
## Spectrum Plot



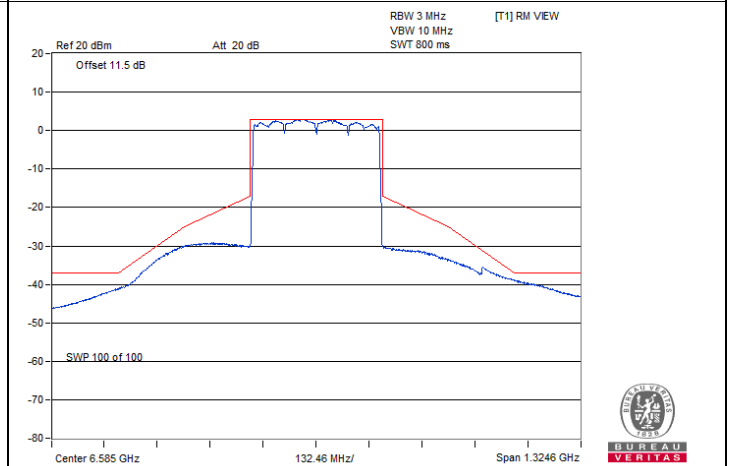
802.11be (EHT320) / Chain 1 : CH 31



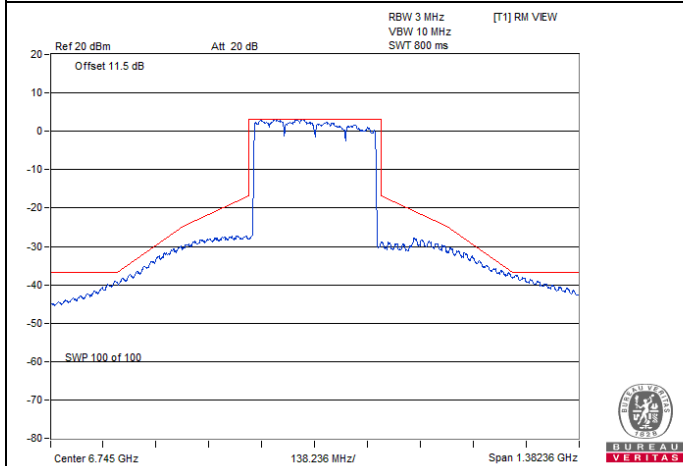
802.11be (EHT320) / Chain 1 : CH 63



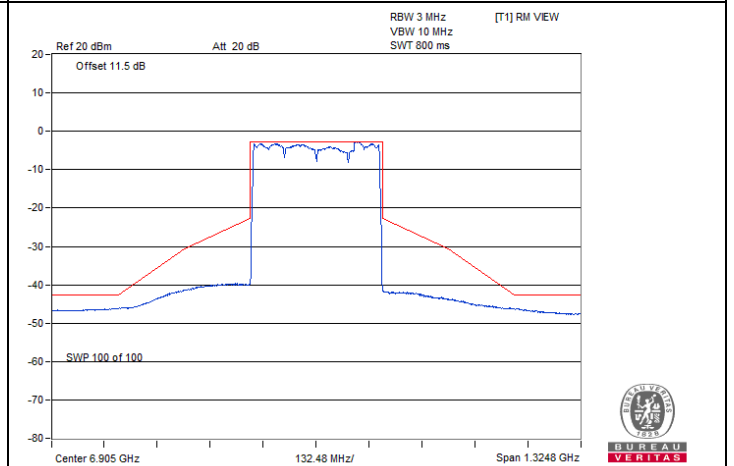
802.11be (EHT320) / Chain 1 : CH 95



802.11be (EHT320) / Chain 1 : CH 127

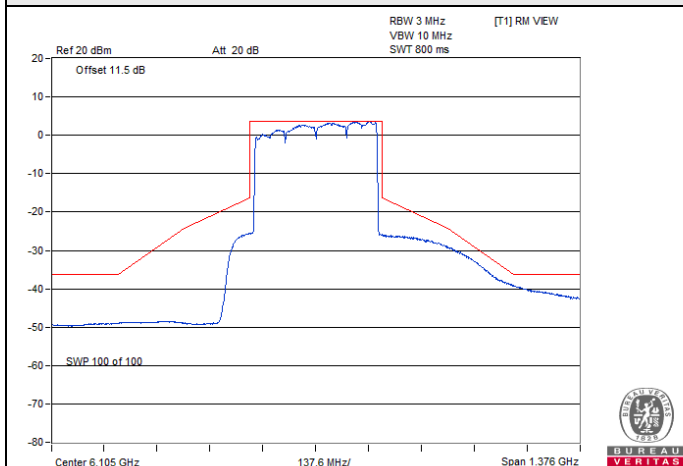


802.11be (EHT320) / Chain 1 : CH 159

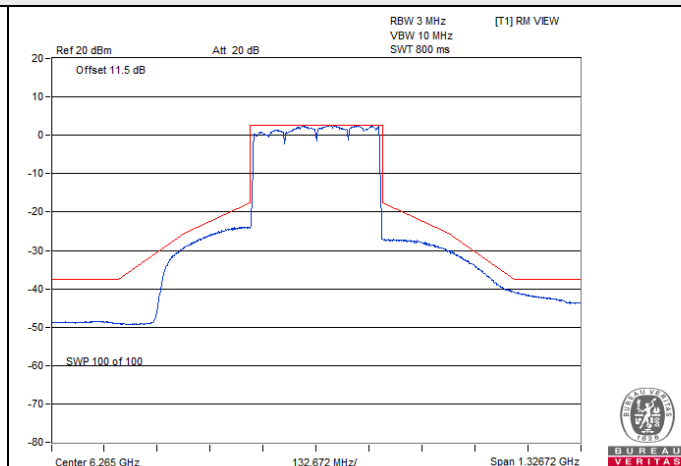


802.11be (EHT320) / Chain 1 : CH 191

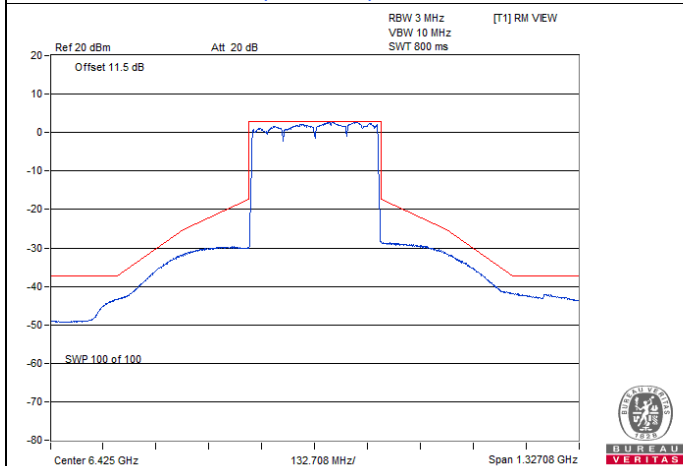
## Spectrum Plot



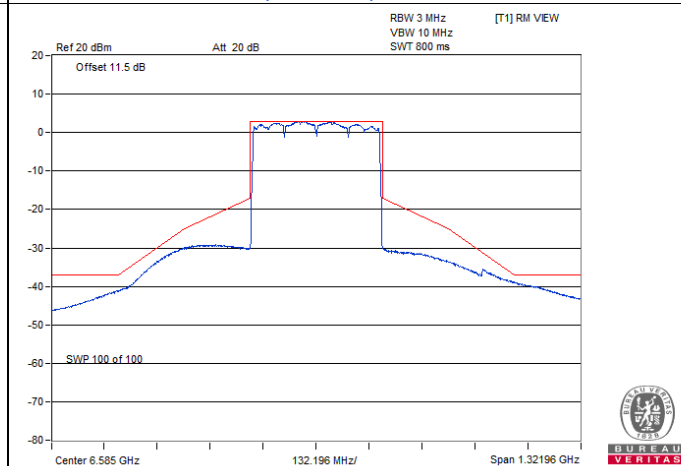
802.11be (EHT320) / Chain 2 : CH 31



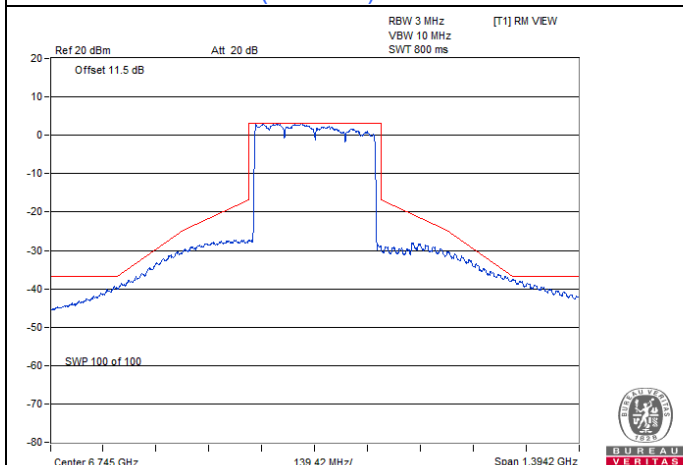
802.11be (EHT320) / Chain 2 : CH 63



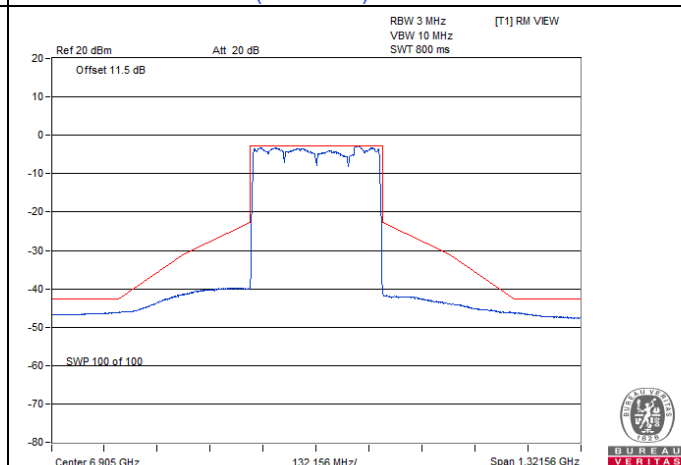
802.11be (EHT320) / Chain 2 : CH 95



802.11be (EHT320) / Chain 2 : CH 127

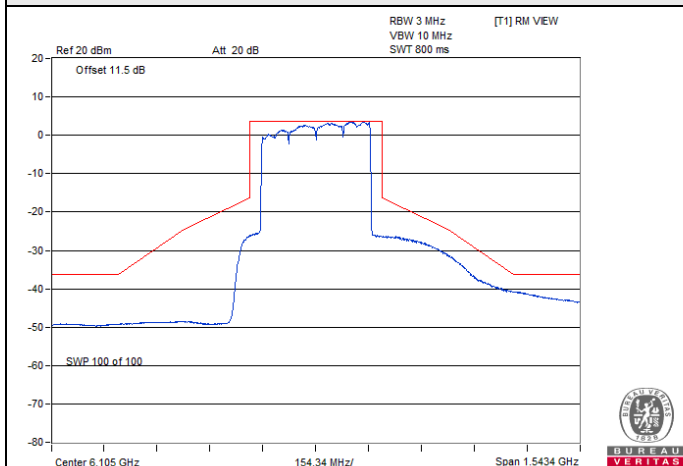


802.11be (EHT320) / Chain 2 : CH 159

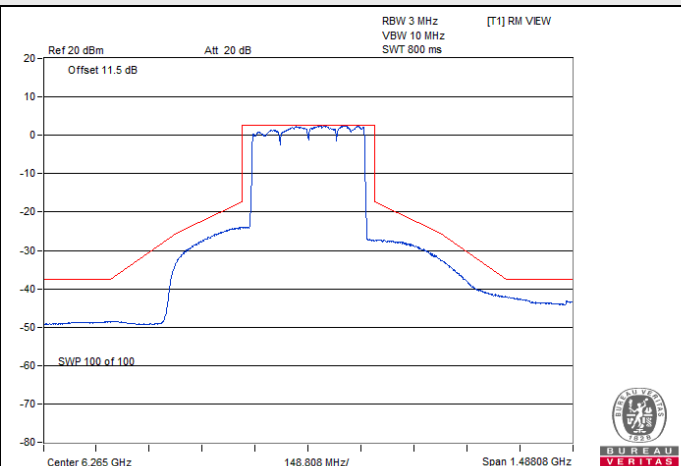


802.11be (EHT320) / Chain 2 : CH 191

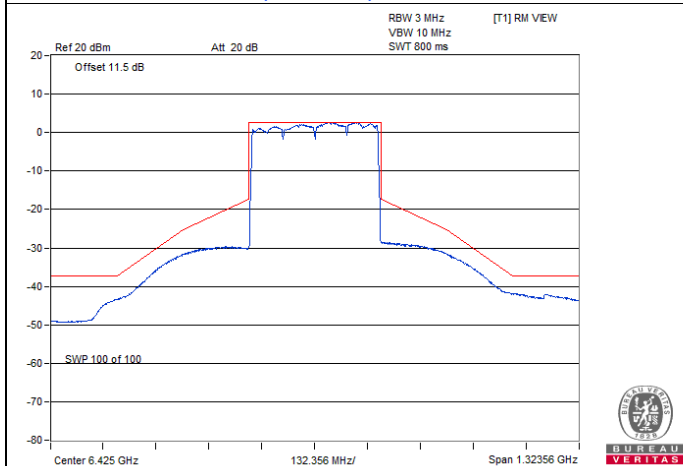
## Spectrum Plot



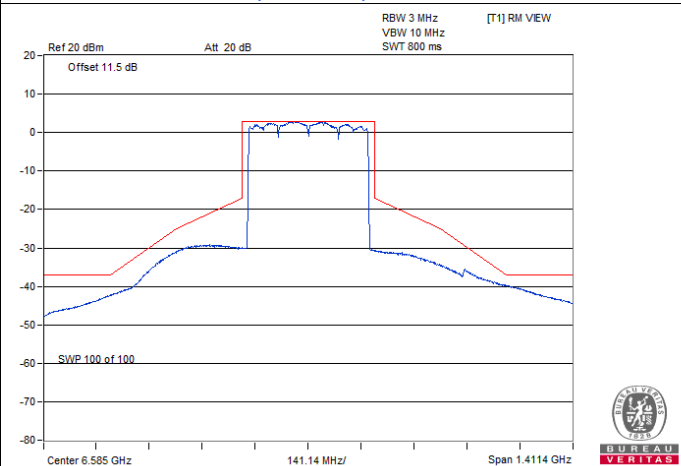
802.11be (EHT320) / Chain 3 : CH 31



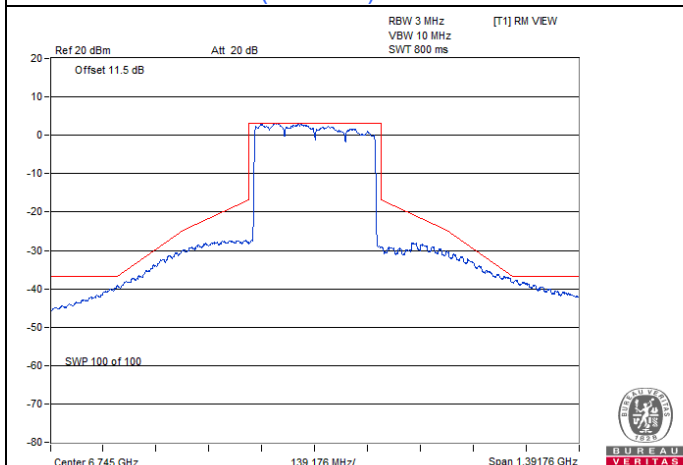
802.11be (EHT320) / Chain 3 : CH 63



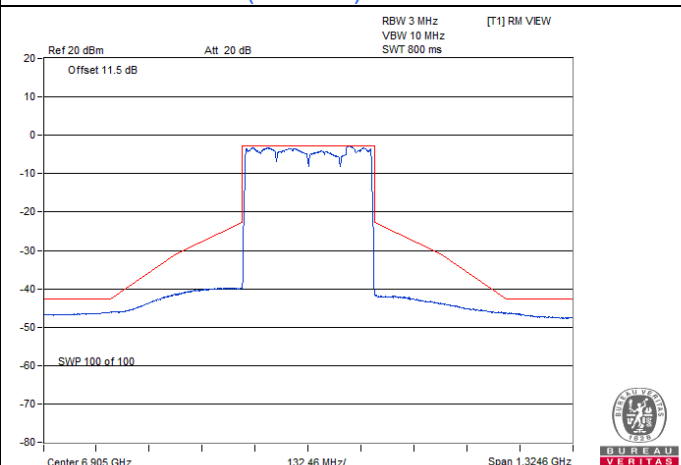
802.11be (EHT320) / Chain 3 : CH 95



802.11be (EHT320) / Chain 3 : CH 127



802.11be (EHT320) / Chain 3 : CH 159



802.11be (EHT320) / Chain 3 : CH 191

## 7.5 Occupied Bandwidth

|              |                |                           |              |            |            |
|--------------|----------------|---------------------------|--------------|------------|------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Waydi Tuan |
|--------------|----------------|---------------------------|--------------|------------|------------|

### 802.11a

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |         |         |         |
|---------|-----------------|--------------------------|---------|---------|---------|
|         |                 | Chain 0                  | Chain 1 | Chain 2 | Chain 3 |
| 1       | 5955            | 17.13                    | 17.28   | 17.04   | 17.16   |
| 45      | 6175            | 17.04                    | 17.04   | 17.04   | 17.16   |
| 93      | 6415            | 17.04                    | 17.16   | 17.04   | 17.16   |
| 97      | 6435            | 17.04                    | 17.04   | 17.04   | 17.04   |
| 105     | 6475            | 17.16                    | 17.04   | 17.16   | 17.04   |
| 113     | 6515            | 17.04                    | 17.16   | 17.16   | 17.16   |
| 117     | 6535            | 17.16                    | 17.16   | 17.04   | 17.04   |
| 149     | 6695            | 17.16                    | 17.16   | 17.16   | 17.16   |
| 181     | 6855            | 17.04                    | 17.04   | 17.04   | 17.16   |
| 185     | 6875            | 17.04                    | 17.04   | 17.04   | 16.92   |
| 209     | 6995            | 17.22                    | 17.16   | 17.16   | 16.92   |
| 229     | 7095            | 17.04                    | 17.04   | 17.16   | 17.16   |

### 802.11be (EHT20)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |         |         |         |
|---------|-----------------|--------------------------|---------|---------|---------|
|         |                 | Chain 0                  | Chain 1 | Chain 2 | Chain 3 |
| 1       | 5955            | 19.14                    | 19.20   | 19.20   | 19.20   |
| 45      | 6175            | 19.20                    | 19.20   | 19.20   | 19.20   |
| 93      | 6415            | 19.20                    | 19.20   | 19.20   | 19.20   |
| 97      | 6435            | 19.20                    | 19.20   | 19.08   | 19.08   |
| 105     | 6475            | 19.20                    | 19.20   | 19.20   | 19.08   |
| 113     | 6515            | 19.20                    | 19.20   | 19.20   | 19.08   |
| 117     | 6535            | 19.20                    | 19.32   | 19.08   | 19.08   |
| 149     | 6695            | 19.20                    | 19.20   | 19.20   | 19.20   |
| 181     | 6855            | 19.20                    | 19.08   | 19.20   | 19.20   |
| 185     | 6875            | 19.20                    | 19.08   | 19.20   | 19.20   |
| 209     | 6995            | 19.08                    | 19.20   | 19.20   | 19.20   |
| 229     | 7095            | 19.20                    | 19.20   | 19.08   | 19.20   |

### 802.11be (EHT40)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |         |         |         |
|---------|-----------------|--------------------------|---------|---------|---------|
|         |                 | Chain 0                  | Chain 1 | Chain 2 | Chain 3 |
| 3       | 5965            | 37.92                    | 37.92   | 38.16   | 37.92   |
| 43      | 6165            | 38.16                    | 38.16   | 37.92   | 37.92   |
| 91      | 6405            | 38.16                    | 37.92   | 37.92   | 38.16   |
| 99      | 6445            | 37.92                    | 38.16   | 38.16   | 37.92   |
| 107     | 6485            | 37.92                    | 38.16   | 38.16   | 38.16   |
| 115     | 6525            | 38.78                    | 37.92   | 37.92   | 38.16   |
| 123     | 6565            | 38.16                    | 38.40   | 38.16   | 37.92   |
| 155     | 6725            | 38.16                    | 37.92   | 38.16   | 38.16   |
| 179     | 6845            | 38.16                    | 37.92   | 38.16   | 38.16   |
| 187     | 6885            | 38.16                    | 37.92   | 37.92   | 37.92   |
| 211     | 7005            | 37.92                    | 37.92   | 37.92   | 37.92   |
| 227     | 7085            | 38.16                    | 37.92   | 37.92   | 38.16   |

### 802.11be (EHT80)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |         |         |         |
|---------|-----------------|--------------------------|---------|---------|---------|
|         |                 | Chain 0                  | Chain 1 | Chain 2 | Chain 3 |
| 7       | 5985            | 77.57                    | 77.76   | 77.28   | 77.76   |
| 39      | 6145            | 77.76                    | 77.28   | 77.76   | 77.28   |
| 87      | 6385            | 77.28                    | 77.76   | 77.28   | 77.28   |
| 103     | 6465            | 77.28                    | 77.76   | 77.28   | 76.80   |
| 119     | 6545            | 77.28                    | 76.80   | 77.28   | 77.28   |
| 151     | 6705            | 77.28                    | 77.28   | 77.28   | 77.28   |
| 183     | 6865            | 77.28                    | 77.28   | 77.28   | 77.28   |
| 199     | 6945            | 77.28                    | 77.28   | 77.28   | 77.28   |
| 215     | 7025            | 76.80                    | 76.80   | 76.80   | 77.28   |

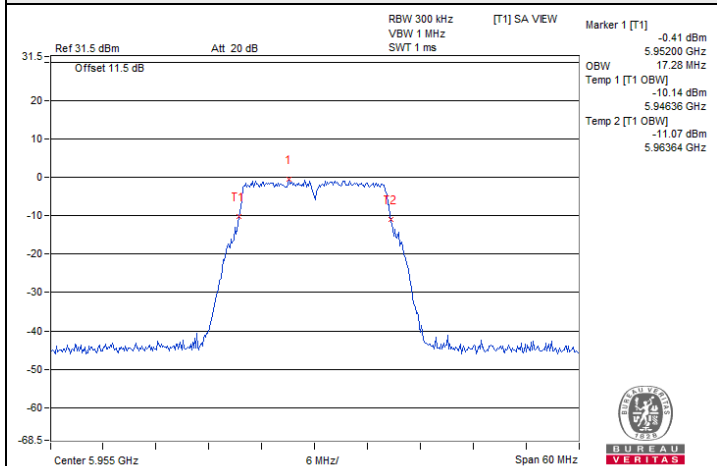
### 802.11be (EHT160)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |         |         |         |
|---------|-----------------|--------------------------|---------|---------|---------|
|         |                 | Chain 0                  | Chain 1 | Chain 2 | Chain 3 |
| 15      | 6025            | 156.52                   | 157.44  | 157.44  | 156.48  |
| 47      | 6185            | 157.44                   | 157.44  | 157.44  | 157.44  |
| 79      | 6345            | 157.44                   | 157.44  | 156.48  | 157.44  |
| 111     | 6505            | 156.48                   | 157.44  | 157.44  | 157.44  |
| 143     | 6665            | 157.44                   | 156.48  | 156.48  | 156.48  |
| 175     | 6825            | 157.44                   | 157.44  | 157.44  | 157.44  |
| 207     | 6985            | 157.44                   | 157.44  | 157.44  | 157.44  |

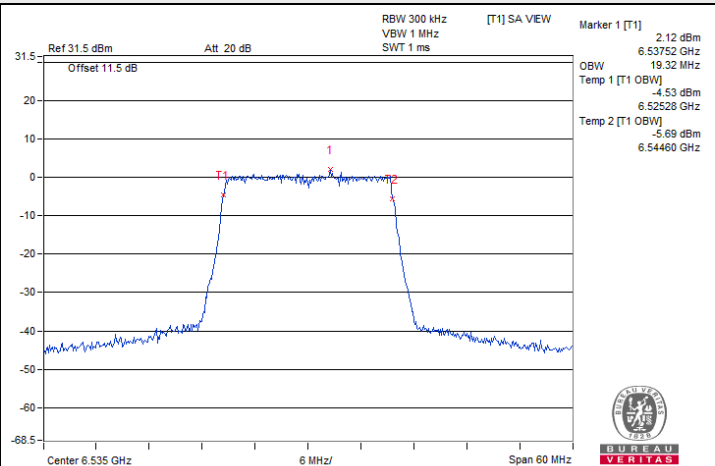
### 802.11be (EHT320)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |         |         |         |
|---------|-----------------|--------------------------|---------|---------|---------|
|         |                 | Chain 0                  | Chain 1 | Chain 2 | Chain 3 |
| 31      | 6105            | 314.44                   | 316.80  | 316.80  | 314.88  |
| 63      | 6265            | 314.88                   | 318.72  | 318.72  | 316.80  |
| 95      | 6425            | 318.72                   | 314.88  | 314.88  | 314.88  |
| 127     | 6585            | 316.80                   | 316.80  | 316.80  | 316.80  |
| 159     | 6745            | 316.80                   | 316.80  | 316.80  | 316.80  |
| 191     | 6905            | 316.80                   | 316.80  | 316.80  | 316.80  |

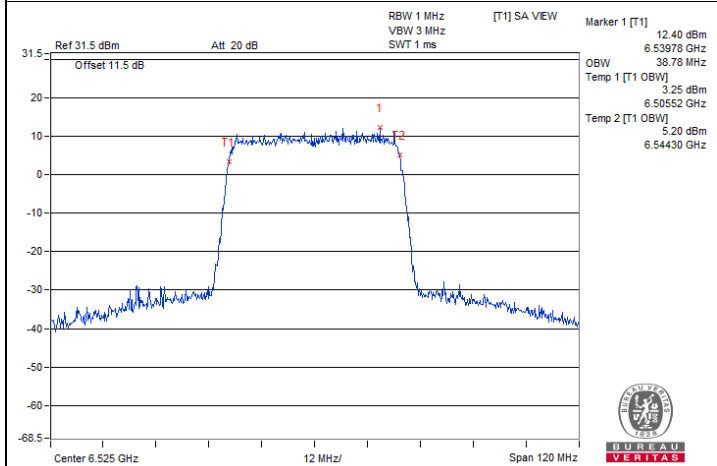
## Spectrum Plot of Maximum Value



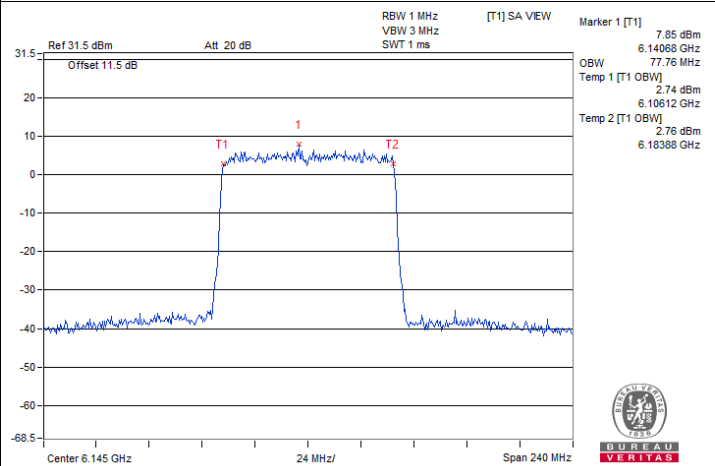
802.11a / Chain 1 : CH 1



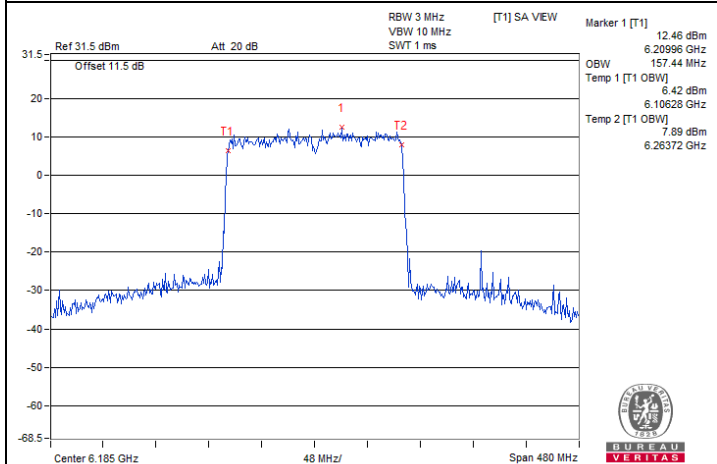
802.11be (EHT20) / Chain 1 : CH 117



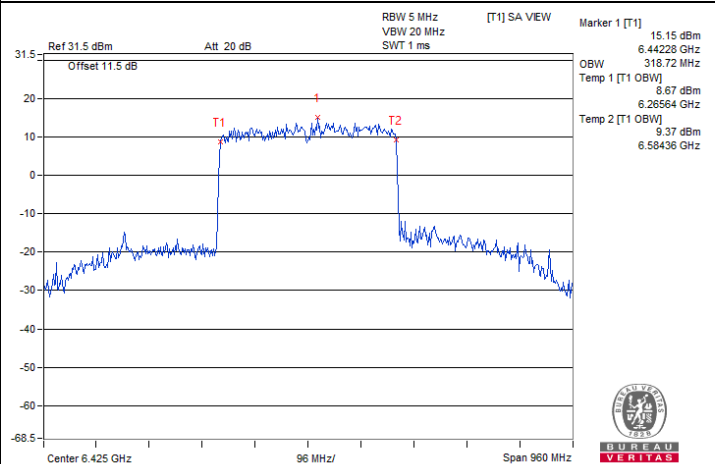
802.11be (EHT40) / Chain 0 : CH 115



802.11be (EHT80) / Chain 0 : CH 39



802.11be (EHT160) / Chain 0 : CH 47



802.11be (EHT320) / Chain 0 : CH 95

## 7.6 Contention-based Protocol

|                           |              |            |               |
|---------------------------|--------------|------------|---------------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Frankie Chang |
|---------------------------|--------------|------------|---------------|

| Companion Device Information |       |           |                           |
|------------------------------|-------|-----------|---------------------------|
| Product                      | Brand | Model No. | Software/Firmware Version |
| Wireless Module              | Intel | BE200     | 23.40.0.4                 |

Note: The EUT device modulation technique OFDMA does not support partial RUs (resource units), channel puncturing, and bandwidth reduction mechanisms.

# For U-NII-5

## Contention Based Protocol Measurement

| Operation Mode | Channel Bandwidth (MHz) | Channel Number | Channel Freq. (MHz) | Injected Signal (AWGN) |             | Antenna Gain (dBi) | Path Loss (dB) (Note 3) | Adjusted Power (dBm) | Detection Limit | EUT TX Status |
|----------------|-------------------------|----------------|---------------------|------------------------|-------------|--------------------|-------------------------|----------------------|-----------------|---------------|
|                |                         |                |                     | Freq. (MHz)            | Power (dBm) |                    |                         |                      |                 |               |
| 802.11be       | 20                      | 45             | 6175                | 6175                   | -60         | 4.3                | 0                       | -64.3                | -62             | OFF           |
|                |                         |                |                     |                        | -62         | 4.3                | 0                       | -66.3                | -62             | Minimal       |
|                |                         |                |                     |                        | -77.7       | 4.3                | 0                       | -82                  | -62             | ON            |
|                | 320                     | 31             | 6105                | 5950                   | -60         | 4.3                | 0                       | -64.3                | -62             | OFF           |
|                |                         |                |                     |                        | -63         | 4.3                | 0                       | -67.3                | -62             | Minimal       |
|                |                         |                |                     |                        | -77.7       | 4.3                | 0                       | -82                  | -62             | ON            |
|                |                         |                |                     | 6105                   | -61         | 4.3                | 0                       | -65.3                | -62             | OFF           |
|                |                         |                |                     |                        | -64         | 4.3                | 0                       | -68.3                | -62             | Minimal       |
|                |                         |                |                     |                        | -77.7       | 4.3                | 0                       | -82                  | -62             | ON            |
|                |                         |                |                     | 6260                   | -61         | 4.3                | 0                       | -65.3                | -62             | OFF           |
|                |                         |                |                     |                        | -64         | 4.3                | 0                       | -68.3                | -62             | Minimal       |
|                |                         |                |                     |                        | -77.7       | 4.3                | 0                       | -82                  | -62             | ON            |

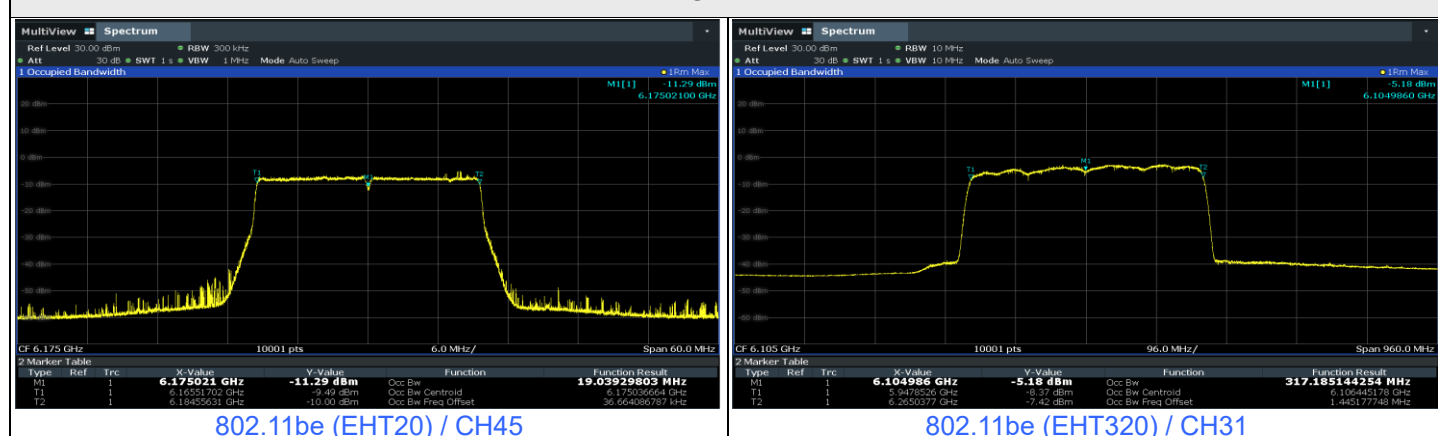
Notes:

1. After investigation (consider antenna gain and path loss), the one representative port (Ant. 4) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

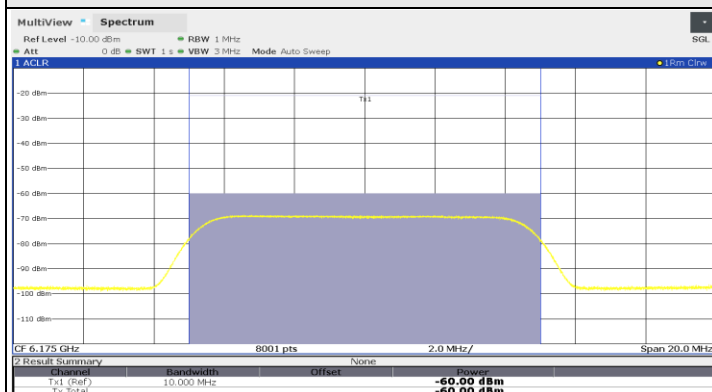
## Contention Based Protocol Detection Probability

| Operation Mode | Channel Bandwidth (MHz) | AWGN Signal Freq. (MHz) | #01 | #02 | #03 | #04 | #05 | #06 | #07 | #08 | #09 | #10 | Detection Probability | Detection Limit | Test Result |
|----------------|-------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----------------|-------------|
| 802.11be       | 20                      | 6175                    | v   | v   | v   | v   | v   | v   | v   | v   | v   | v   | 100%                  | 90%             | Pass        |
|                | 320                     | 5950                    | v   | v   | v   | v   | v   | v   | v   | v   | v   | v   | 100%                  | 90%             | Pass        |
|                |                         | 6105                    | v   | v   | v   | v   | v   | v   | v   | v   | v   | v   | 100%                  | 90%             | Pass        |
|                |                         | 6260                    | v   | v   | v   | v   | v   | v   | v   | v   | v   | v   | 100%                  | 90%             | Pass        |

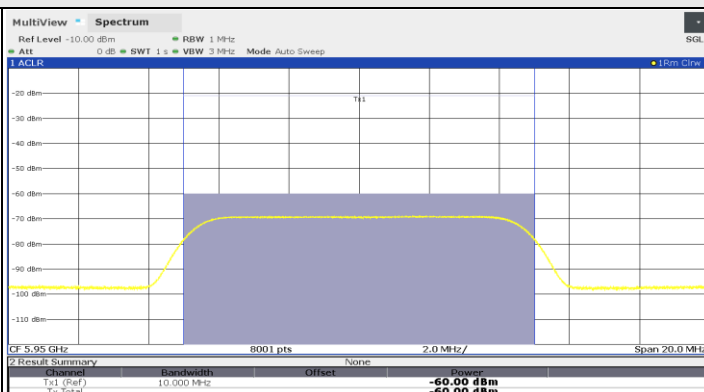
## Plots of EUT Tx waveform



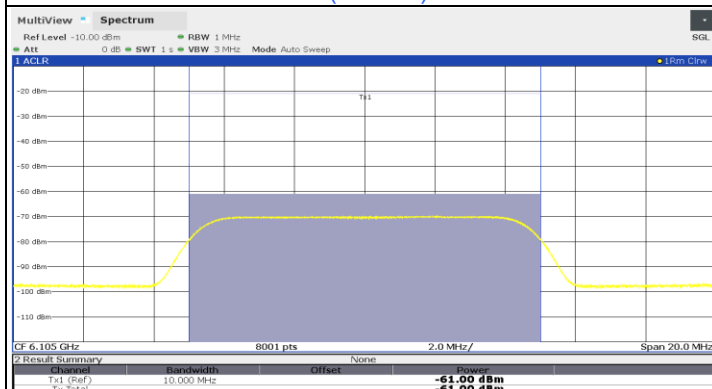
## Plots of Injected signal (AWGN) level



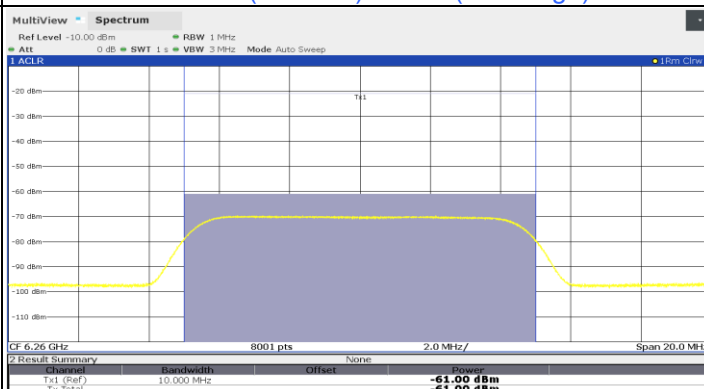
802.11be (EHT20) / CH45



802.11be (EHT320) / CH31(Low Edge)



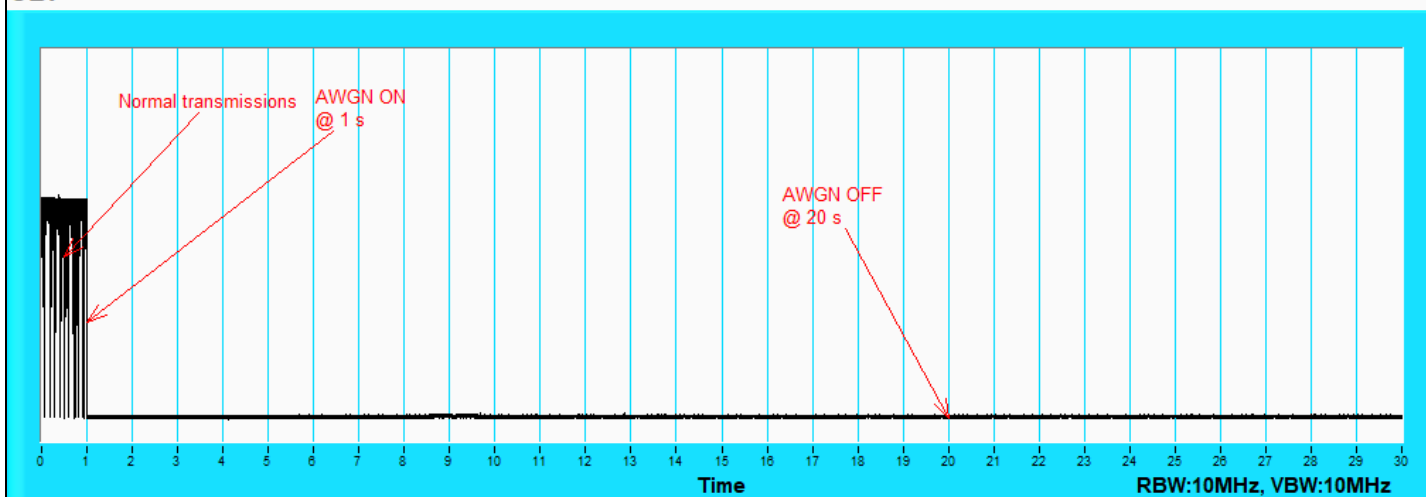
802.11be (EHT320) / CH31(Middle)



802.11be (EHT320) / CH31(High Edge)

## Plots of EUT ceased transmission in the time domain

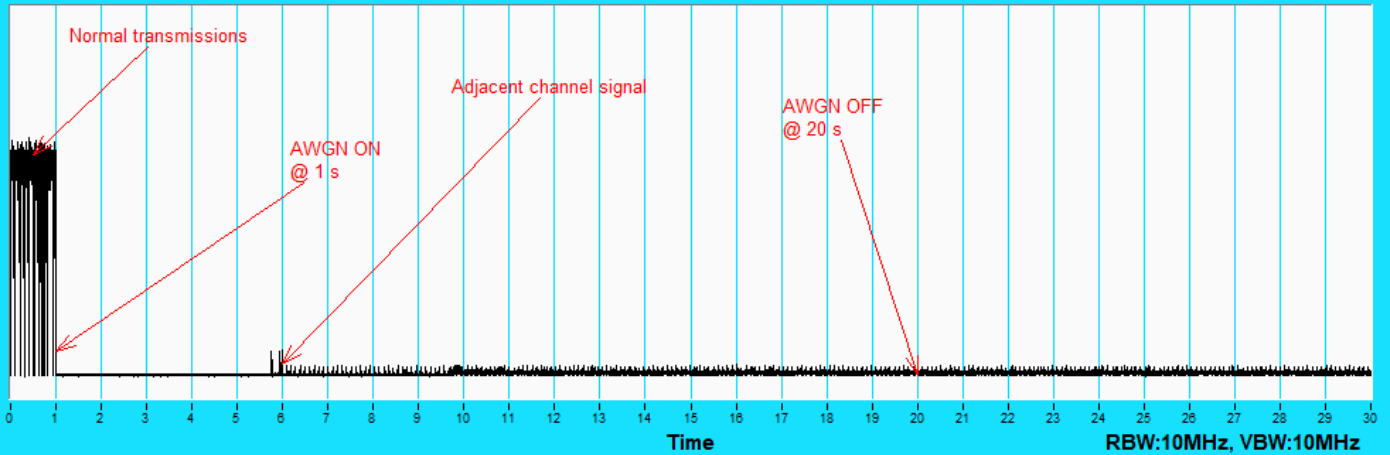
### CBP



802.11be (EHT20) / CH45

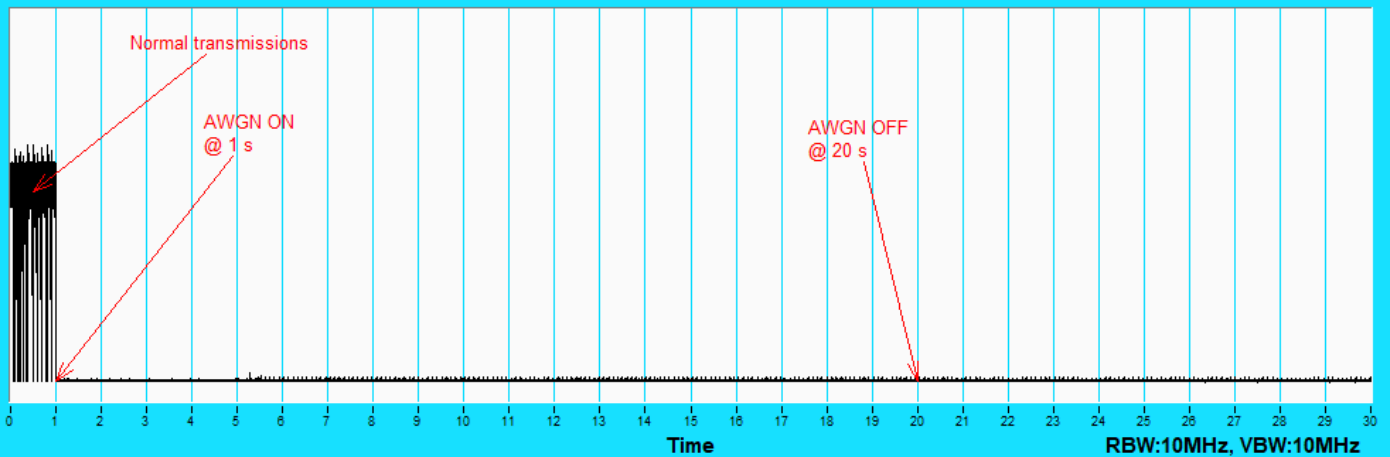
# Plots of EUT ceased transmission in the time domain

## CBP



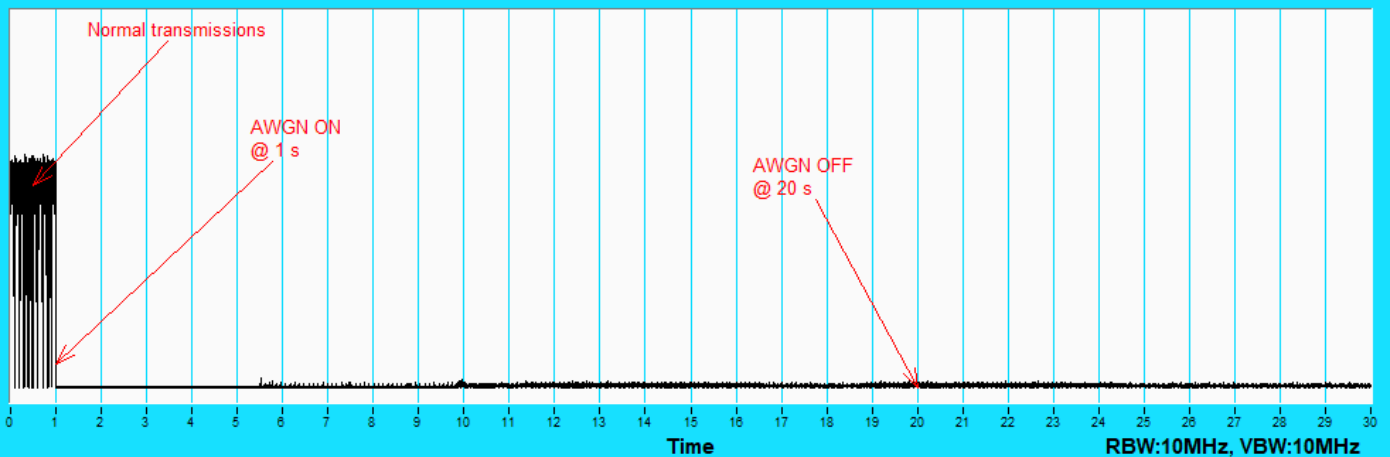
802.11be (EHT320) / CH31(Low Edge)

## CBP



802.11be (EHT320) / CH31(Middle)

## CBP



802.11be (EHT320) / CH31(High Edge)