# FCC RADIO TEST REPORT

| | | |
|---|---|---|
| **FCC ID** | : | **2ABOF-GXRN8356900** |
| **Equipment** | : | **RN System (Multiband)** |
| **Brand Name** | : | **Tarana** |
| **Model Name** | : | **GXRN8356900** |
| **Applicant** | : | **Tarana Wireless, Inc.<br>630 Alder Drive, Milpitas, CA 95035** |
| **Manufacturer** | : | **Tarana Wireless, Inc.<br>630 Alder Drive, Milpitas, CA 95035** |
| **Standard** | : | **FCC Part 15 Subpart E §15.407** |

**The product was received on Apr. 30, 2025 and testing was performed from May 02, 2025 to May 30, 2025. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.**

**The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.**

**Approved by: Neil Kao**

***Sporton International (USA) Inc.***
*1175 Montague Expressway, Milpitas, CA 95035*

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# History of this test report

| Report No. | Version | Description | Issue Date |
|---|---|---|---|
| FR250408001B | 01 | Initial issue of report | Jun. 04, 2025 |
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# Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 3.1 | 15.407(a)(10) | 26dB Emission Bandwidth | Pass | - |
| 3.1 | 2.1049 | 99% Occupied Bandwidth | Pass | - |
| 3.2 | 15.407(a)(4) | Fundamental Maximum EIRP | Pass | - |
| 3.3 | 15.407(a)(4) | Fundamental Power Spectral Density | Pass | - |
| 3.4 | 15.407(b)(7) | In-Band Emissions (Channel Mask) | Pass | - |
| - | 15.407(d)(6) | Contention Based Protocol | Not Required | See Note |
| 3.5 | 15.407(b) | Unwanted Emissions | Pass | - |
| 3.6 | 15.207 | AC Conducted Emission | Pass | - |
| 3.7 | 15.203 | Antenna Requirement | Pass | - |
| **Note:** CBP testing can be exempted since the equipment is categorized as Fixed Client device. | | | | |

| **Conformity Assessment Condition:** |
|---|
| 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. |
| 2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”. |
| **Disclaimer:** |
| The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity. |

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature |
|---|
| **General Specs**<br>Proprietary radio 5G / 6G, CBRS and GNSS.<br><br>**Antenna Type**<br>Proprietary radio 6G: Array antenna |

| Antenna information | | |
|---|---|---|
| **5925 MHz ~ 6425 MHz** | Peak Gain (dBi) | 15.90 |
| **6525 MHz ~ 6875 MHz** | Peak Gain (dBi) | 15.71 |

**Remark:**

1. The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna
2. Minimum number of spatial stream (Nss) is 2
3. The EUT is a fixed client device operating in UNII-5.
   In X1 mode, Directional Gain (4H/4V) = 15.90dBi + 10log(Ntx = 4 / Nss = 2) = 18.91dBi
   In X2 mode, Directional Gain (4H/4V) = 15.90dBi + 10log(Ntx = 2 / Nss = 2) = 15.90dBi
   The EUT is a fixed client device operating in UNII-7.
   In X1 mode, Directional Gain (4H/4V) = 15.71dBi + 10log(Ntx = 4 / Nss = 2) = 18.72dBi
   In X2 mode, Directional Gain (4H/4V) = 15.71dBi + 10log(Ntx = 2 / Nss = 2) = 15.71dBi
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

| | |
|---|---|
| **Test Site** | Sporton International (USA) Inc. |
| **Test Site Location** | 1175 Montague Expressway, Milpitas, CA 95035<br>TEL : 408 9043300 |
| **Test Site No.** | **Sporton Site No.** |
| | TH01-CA, CO01-CA, 03CH01-CA |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: US1250

## 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2020

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

# 2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

b. AC power line Conducted Emission was tested under maximum output power.

## 2.1 Carrier Frequency and Channel

| Frequency Band | Channel | Freq. (MHz) |
|---|---|---|
| 5925-6425 MHz (U-NII-5) 40MHz | 3 | 5965 |
| | 7 | 5985 |
| | 11 | 6005 |
| | 15 | 6025 |
| | 19 | 6045 |
| | 23 | 6065 |
| | 27 | 6085 |
| | 31 | 6105 |
| | 35 | 6125 |
| | 39 | 6145 |
| | 43 | 6165 |
| | 47 | 6185 |
| | 51 | 6205 |
| | 55 | 6225 |
| | 59 | 6245 |
| | 63 | 6265 |
| | 67 | 6285 |
| | 71 | 6305 |
| | 75 | 6325 |
| | 79 | 6345 |
| | 83 | 6365 |
| | 87 | 6385 |
| | 91 | 6405 |
| 5925-6425 MHz (U-NII-5) 40+40MHz | 3 + 11 | 5965 + 6005 |
| | 43 + 51 | 6165 + 6205 |
| | 83 + 91 | 6365 + 6405 |
| | 3 + 91 | 5965 + 6405 |
| 5925-6425 MHz (U-NII-5) 40+40+40MHz | 3 + 11 + 19 | 5965 + 6005 + 6045 |
| | 43 + 51 + 59 | 6165 + 6205 + 6245 |
| | 75 + 83 + 91 | 6325 + 6365 + 6405 |
| | 3 + 43 + 91 | 5965 + 6165 + 6405 |
| 5925-6425 MHz (U-NII-5) 40+40+40+40 MHz | 3+11+19+27 | 5965+6005+6045+6085 |
| | 35+43+51+59 | 6125+6165+6205+6245 |
| | 67+75+83+91 | 6285+6325+6365+6405 |
| | 3+27+51+91 | 5965+6085+6205+6405 |

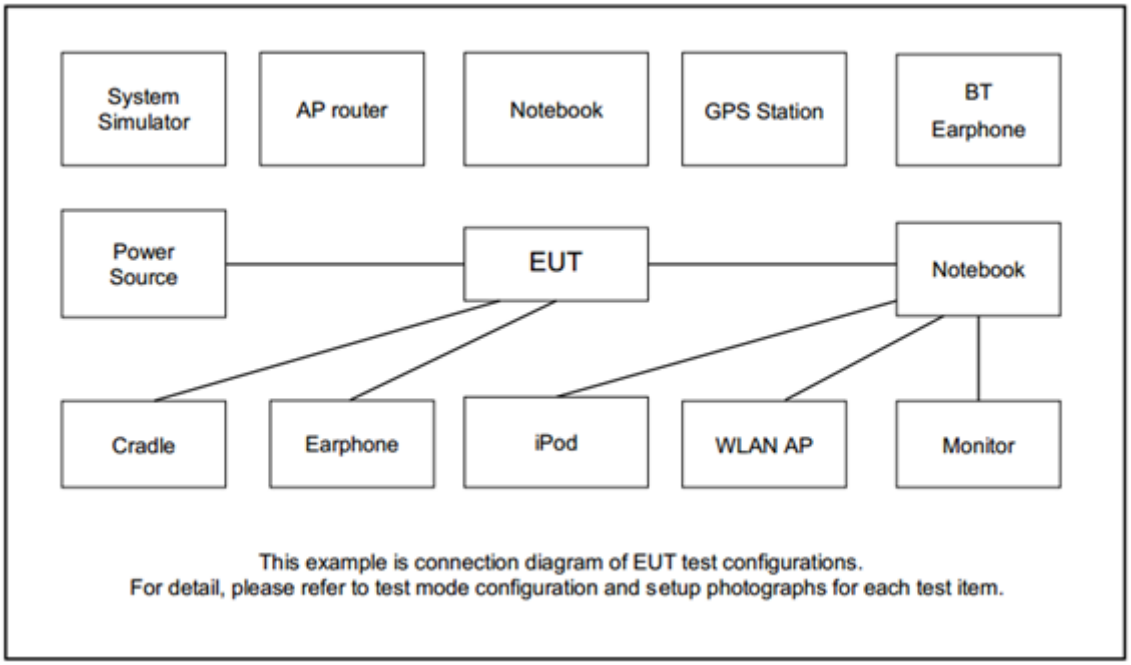
| Frequency Band | Channel | Freq. (MHz) |
|---|---|---|
| 6525-685 MHz (U-NII-7) 40MHz | 119 | 6545 |
| | 123 | 6565 |
| | 127 | 6585 |
| | 131 | 6605 |
| | 135 | 6625 |
| | 139 | 6645 |
| | 143 | 6665 |
| | 147 | 6685 |
| | 151 | 6705 |
| | 155 | 6725 |
| | 159 | 6745 |
| | 163 | 6765 |
| | 167 | 6785 |
| | 171 | 6805 |
| | 173 | 6815 |
| | 175 | 6825 |
| | 179 | 6845 |
| | 181 | 6855 |
| 6525-6875 MHz (U-NII-7) 40+40MHz | 119 + 127 | 6545 + 6585 |
| | 147 + 155 | 6685 + 6725 |
| | 173 + 181 | 6815 + 6855 |
| | 119 + 181 | 6545 + 6855 |
| 6525-6875 MHz (U-NII-7) 40+40+40MHz | 119 + 127 + 135 | 6545 + 6585 + 6625 |
| | 139 + 147 + 155 | 6645 + 6685 + 6725 |
| | 165 + 173 + 181 | 6775 + 6815 + 6855 |
| | 119 + 147 + 181 | 6545 + 6685 + 6855 |
| 6525-6875 MHz (U-NII-7) 40+40+40+40 MHz | 119+127+135+143 | 6545+6585+6625+6665 |
| | 139+147+155+163 | 6645+6685+6725+6765 |
| | 157+165+173+181 | 6735+6775+6815+6855 |
| | 119+139+159+181 | 6545+6645+6745+6855 |

## 2.2 Test Mode

| Test Cases | |
|---|---|
| **AC Conducted Emission** | Mode 1 : 6GHz TX + Adapter |

**Remark:**
1. The detailed Radiated test modes are shown in Appendix C.
2. Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.

## 2.3 Connection Diagram of Test System




## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | Power Supply w/adapter | SHENZHEN GOSPELL DIGITAL TECHNOLOHU CO.,LTD | G0566-500-120 | N/A | N/A | AC I/P : Unshielded, 1.8m |
| 2. | Desktop Computer THINKCENTRE | Lenovo | NA | N/A | N/A | AC I/P Unshielded 1.2m DC O/P Shielded 1.8m |

## 2.5 EUT Operation Test Setup

The RF test items, utility “Terminal” was used on the Linux-based support desktop. Command-line scripts were executed to place the EUT into engineering modes to provide channel frequency and bandwidth selection, power level and continuous transmitting mode.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
*Offset = RF cable loss + attenuator factor.*
Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*
= 4.2 + 10 = 14.2 (dB)

# 3 Test Result

## 3.1 26dB & 99% Occupied Bandwidth Measurement

### 3.1.1 Limit of 26dB & 99% Occupied Bandwidth

**<FCC 14-30 CFR 15.407>**

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

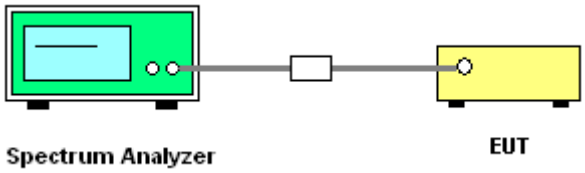
### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. 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%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

### 3.1.4 Test Setup




### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

# 3.2 Fundamental Maximum EIRP Measurement

## 3.2.1 Limit of Fundamental Maximum EIRP

**<FCC 14-30 CFR 15.407>**

(a)(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.

For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

## 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

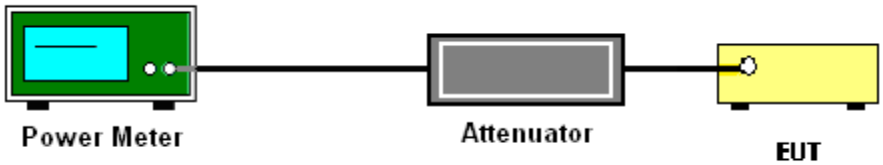
## 3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

## 3.2.4 Test Setup




## 3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

# 3.3 Fundamental Power Spectral Density Measurement

## 3.3.1 Limit of Fundamental Power Spectral Density

**<FCC 14-30 CFR 15.407>**

(a)(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.

## 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

## 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

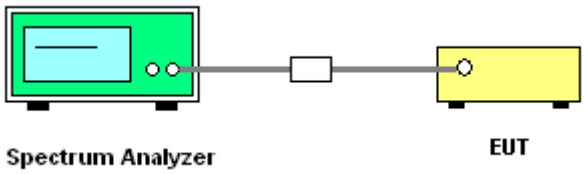
**# Method SA-2 #**

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

### 3.3.4 Test Setup




### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

# 3.4 In-Band Emissions (Channel Mask)

## 3.4.1 Limit of Unwanted Emissions

**<FCC 14-30 CFR 15.407>**

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

## 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

## 3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
   a) Set the span to encompass the entire 26 dB EBW of the signal.
   b) Set RBW = same RBW used for 26 dB EBW measurement.
   c) Set VBW ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / RBW].
   e) Sweep time = auto.
   f) Detector = RMS (i.e., power averaging)
   g) Trace average at least 100 traces in power averaging (rms) mode.
   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
   b. Suppressed by 28 dB at one channel bandwidth from the channel center.
   c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

### 3.4.4 Test Setup


### 3.4.5 Test Result

Please refer to Appendix A.

## 3.5 Unwanted Emissions Measurement

**This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.**

### 3.5.2 Limit of Unwanted Emissions

(1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

| EIRP (dBm) | Field Strength at 3m (dBμV/m) |
|---|---|
| - 27 (RMS) | 68.3 |
| - 7 (Peak) | 88.3 |

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:
Unwanted emissions outside of restricted bands are measured with a RMS detector.
In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

| Frequency (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 |

**Note:** The following formula is used to convert the EIRP to field strength.

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

### 3.5.3 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.5.4 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

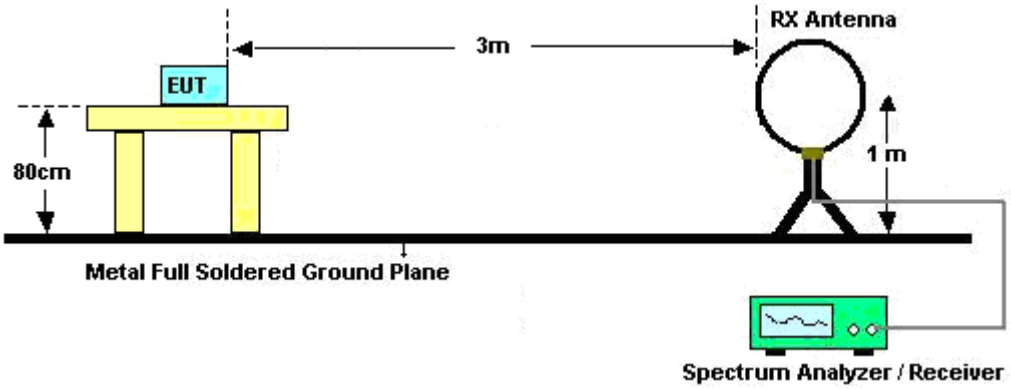
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

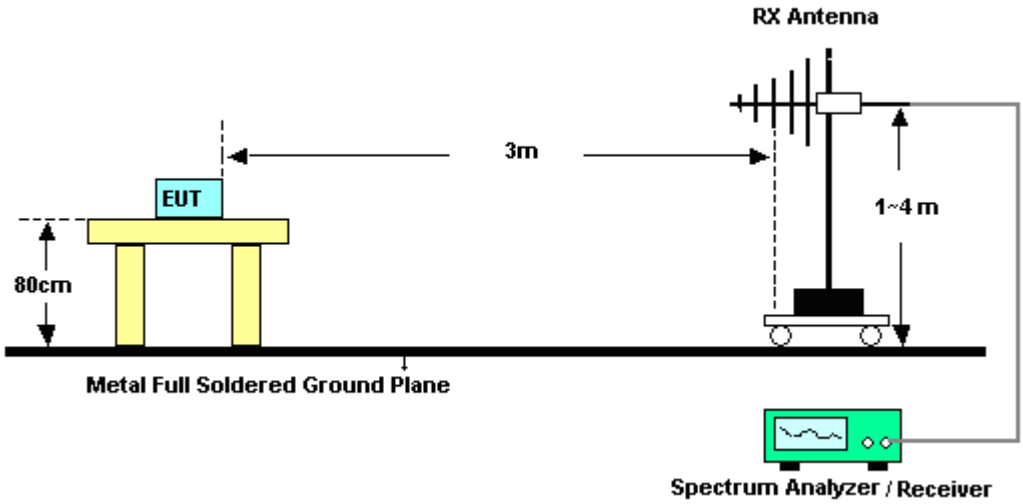
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

### 3.5.5 Test Setup

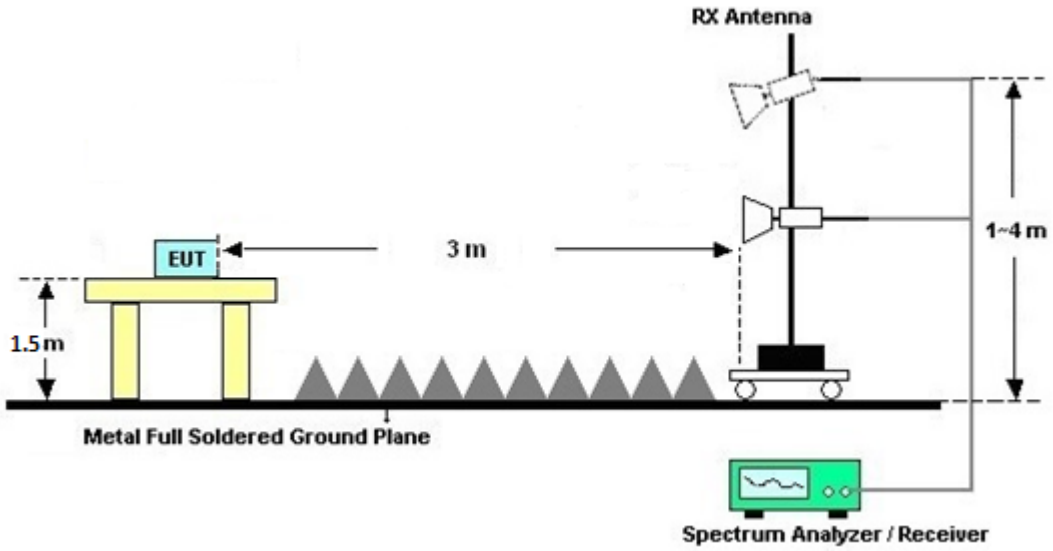
**For radiated emissions below 30MHz**



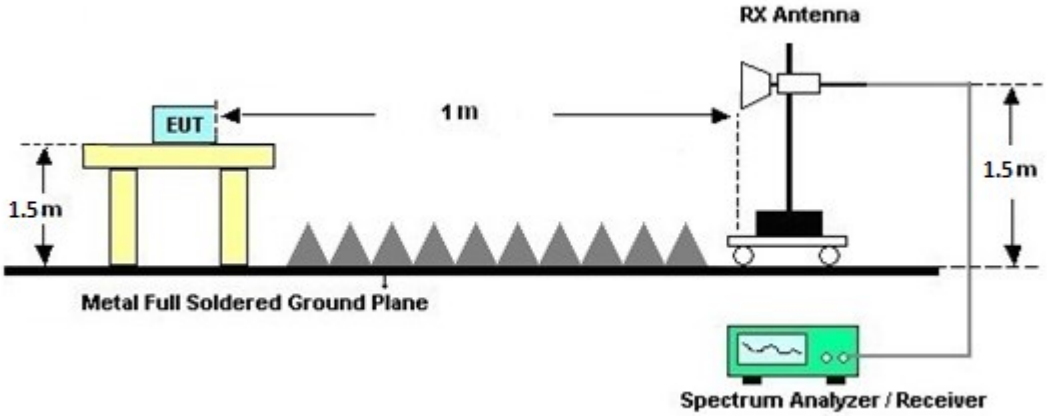

**For radiated emissions from 30MHz to 1GHz**



**For radiated test from 1GHz to 18GHz**




**For radiated test above 18GHz**



### 3.5.6 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.5.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

### 3.5.8 Duty Cycle

Please refer to Appendix D.

### 3.5.9 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

# 3.6 AC Conducted Emission Measurement

## 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

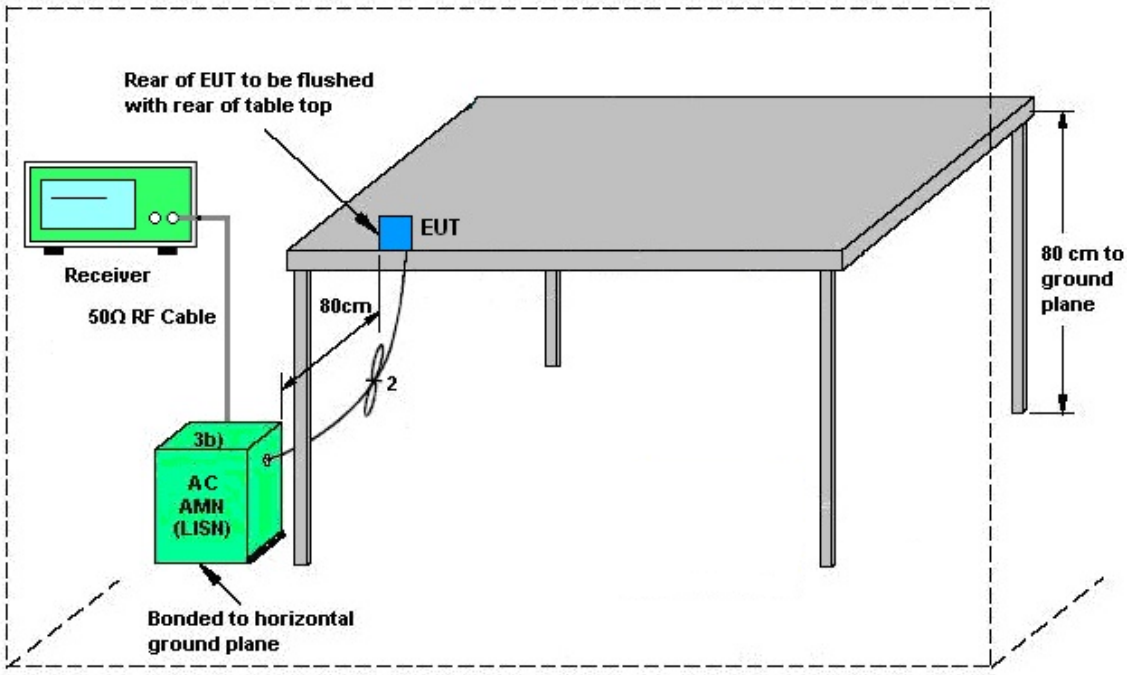
## 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

## 3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.6.4 Test Setup




AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

# 3.7 Antenna Requirements

## 3.7.1 Standard Applicable

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

## 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

# 4 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Hygrometer | Testo | 608-H1 | 45141354 | N/A | Aug. 14. 2024 | May 02, 2025~ May 30, 2025 | Aug. 13. 2025 | Conducted (TH01-CA) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101089 | 10Hz-40GHz | Apr. 17, 2025 | May 02, 2025~ May 30, 2025 | Apr. 16, 2026 | Conducted (TH01-CA) |
| Switch Box | EM Electronics | EMSW26 | 1090304 | N/A | Oct. 10, 2024 | May 02, 2025~ May 30, 2025 | Oct. 09, 2025 | Conducted (TH01-CA) |
| Bilog Antenna | TESEQ | 6111D | 54683 | 30MHz~1GHz | Nov. 15, 2024 | May 12, 2025~ May 22, 2025 | Nov. 14, 2025 | Radiation (03CH01-CA) |
| Loop Antenna | R&S | HFH2-Z2E | 100840 | 9kHz~30MHz | Apr. 28, 2025 | May 12, 2025~ May 22, 2025 | Apr. 27.2026 | Radiation (03CH01-CA) |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 02115 | 1GHz~18GHz | Aug. 06, 2024 | May 12, 2025~ May 22, 2025 | Aug. 05, 2025 | Radiation (03CH01-CA) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA9170 | 00841 | 18GHz~40GHz | Aug. 07, 2024 | May 12, 2025~ May 22, 2025 | Aug. 06, 2025 | Radiation (03CH01-CA) |
| Amplifier | SONOMA | 310N | 372241 | 9kHz~1GHz | Apr. 14, 2025 | May 12, 2025~ May 22, 2025 | Apr. 13, 2026 | Radiation (03CH01-CA) |
| Filter | Wainwright | WFIL-H8000-25000F-01 | WR32BNW2B1 | NA | Jun. 04, 2024 | May 12, 2025~ May 22, 2025 | Jun. 03, 2025 | Radiation (03CH01-CA) |
| Filter | Wainwright | WHKX8-5872.5-6750-18000-40ST | SN8 | NA | Jun. 04, 2024 | May 12, 2025~ May 22, 2025 | Jun. 03, 2025 | Radiation (03CH01-CA) |
| Filter | Wainwright | WLK12-1200-1272-11000-40SS | SN1 | 1.2GHz Low Pass Filter | Jun. 04, 2024 | May 12, 2025~ May 22, 2025 | Jun. 03, 2025 | Radiation (03CH01-CA) |
| Preamplifier | Keysight | 83017A | MY53270321 | 1GHz~26.5GHz | Apr. 14, 2025 | May 12, 2025~ May 22, 2025 | Apr. 13, 2026 | Radiation (03CH01-CA) |
| Preamplifier | E-instrument | ERA-100M-18G-56-01-A70 | EC1900252 | 1GHz~18GHz | Apr. 14, 2025 | May 12, 2025~ May 22, 2025 | Apr. 13, 2026 | Radiation (03CH01-CA) |
| Preamplifier | EMEC | EMC18G40G | 060726 | 18G-40G | Apr. 15, 2025 | May 12, 2025~ May 22, 2025 | Apr. 14, 2026 | Radiation (03CH01-CA) |
| RF Cable | HUBER+SUHNER | SUCOFLEX 102 | 8015932/2, 8015762/2, 804938/2 | N/A | Mar. 04, 2025 | May 12, 2025~ May 22, 2025 | Mar. 03, 2026 | Radiation (03CH01-CA) |
| Hygrometer | TESEO | 608-H1 | 45142559 | N/A | Aug. 14, 2024 | May 12, 2025~ May 22, 2025 | Aug. 13, 2025 | Radiation (03CH01-CA) |
| Controller | Chaintek | EM-1000 | 060881 | Control Turn Table & Antenna Mast | N/A | May 12, 2025~ May 22, 2025 | N/A | Radiation (03CH01-CA) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | May 12, 2025~ May 22, 2025 | N/A | Radiation (03CH01-CA) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | May 12, 2025~ May 22, 2025 | N/A | Radiation (03CH01-CA) |
| Test Software | Audix E3 | E3 230621 Sporton US,V9 | PK-002093 | N/A | N/A | May 12, 2025~ May 22, 2025 | N/A | Radiation (03CH01-CA) |
| LISN | TESEQ | NNB51 | 47415 | N/A | Aug. 14, 2024 | May 28, 2025 | Aug. 13, 2025 | Conduction (CO01-CA) |
| LISN | TESEQ | NNB51 | 47407 | N/A | Apr. 15, 2025 | May 28, 2025 | Apr. 14, 2026 | Conduction (CO01-CA) |
| EMI Test Receiver | R&S | ESR7 | 102177 | 9kHz~7GHz | Apr. 15, 2025 | May 28, 2025 | Apr. 14, 2026 | Conduction (CO01-CA) |
| Pulse limiter with 10dB attenuation | R&S | VTSD 9561-F N | 9561-F-N00412 | N/A | Jun. 04, 2024 | May 28, 2025 | Jun. 03, 2025 | Conduction (CO01-CA) |
| LISN Cable | HUBER+SUHNER | RG-214/U | LISN cable -01 | N/A | Jun. 04, 2024 | May 28, 2025 | Jun. 03, 2025 | Conduction (CO01-CA) |
| Test Software | R&S | EMC32 V10.30.0 | N/A | N/A | N/A | May 28, 2025 | N/A | Conduction (CO01-CA) |

# 5 Measurement Uncertainty

**Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.9 dB |

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.7 dB |

**Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.5 dB |

**Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.5 dB |

# Appendix A. Test Result of Conducted Test Items

| | | | | |
|---|---|---|---|---|
| Test Engineer: | Venkata Kondepudi | Temperature: | 18.8~21.7°C | °C |
| Test Date: | 2025/05/02~2025/05/30 | Relative Humidity: | 43.00~52.40% | % |

<X1 Mdoe>

**Conducted Power on Port 0H**

| BW | Freq (MHz) | Conducted Power Carrier 0 (dBm) | Conducted Power Carrier 1 (dBm) | Condcuted Power (dBm) | MIMO Factor (dB) | Antenna Gain (dBi) | DG (dBi) | Total Conducted Power (dBm) | Total EIRP (dBm) | EIRP Limit (dBm) | Pass/Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40MHz | 5965 | - | - | 8.04 | 9.03 | 15.90 | 18.91 | 17.07 | 35.98 | 36 | Pass |
| | 6165 | - | - | 8.02 | 9.03 | 15.90 | 18.91 | 17.05 | 35.96 | 36 | Pass |
| | 6405 | - | - | 8.05 | 9.03 | 15.90 | 18.91 | 17.08 | 35.99 | 36 | Pass |
| 40+40MHz Contiguous | 5965+6005 | - | - | 8.05 | 9.03 | 15.90 | 18.91 | 17.08 | 35.99 | 36 | Pass |
| | 6165+6205 | - | - | 8.04 | 9.03 | 15.90 | 18.91 | 17.07 | 35.98 | 36 | Pass |
| | 6365+6405 | - | - | 8.05 | 9.03 | 15.90 | 18.91 | 17.08 | 35.99 | 36 | Pass |
| 40+40MHz Non-Contiguous | 5965+6405 | 5.06 | 5.04 | 8.06 | 9.03 | 15.90 | 18.91 | 17.09 | 36.00 | 36 | Pass |

**Power Setting**

| ADAK | Attn |
|---|---|
| 24 | 0.5 |
| 24 | 1.4 |
| 21 | 0.6 |
| 27 | 0.2_-0.6 |
| 30 | 2.5 |
| 27 | -0.1_-1.3 |
| 27 | 2.3_-1.4 |

**PSD on Port 0H**

| BW | Freq (MHz) | Conducted PSD Carrier 0 (dBm/MHz) | Conducted PSD Carrier 1 (dBm/MHz) | Condcuted PSD (dBm/MHz) | MIMO Factor (dB) | Antenna Gain (dBi) | DG (dBi) | Total Conducted PSD (dBm/MHz) | Total EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Pass/Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40MHz | 5965 | - | - | -6.97 | 9.03 | 15.90 | 18.91 | 2.06 | 20.97 | 23 | Pass |
| | 6165 | - | - | -6.89 | 9.03 | 15.90 | 18.91 | 2.14 | 21.05 | 23 | Pass |
| | 6405 | - | - | -6.06 | 9.03 | 15.90 | 18.91 | 2.97 | 21.88 | 23 | Pass |
| 40 + 40MHz Contiguous | 5965+6005 | - | - | -9.17 | 9.03 | 15.90 | 18.91 | -0.14 | 18.77 | 23 | Pass |
| | 6165+6205 | - | - | -9.47 | 9.03 | 15.90 | 18.91 | -0.44 | 18.47 | 23 | Pass |
| | 6365+6405 | - | - | -9.79 | 9.03 | 15.90 | 18.91 | -0.76 | 18.15 | 23 | Pass |
| 40+40MHz Non-Contiguous | 5965+6405 | -9.79 | -9.82 | -9.79 | 9.03 | 15.90 | 18.91 | -0.76 | 18.15 | 23 | Pass |

**MIMO Calculation**

| Number of Ant | Number of SS | SS Correction |
|---|---|---|
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |

| BW | Freq (MHz) | 26dB BW Carrier 0 (MHz) | 26dB BW Carrier 1 (MHz) | OBW Carrier 0 (MHz) | OBW Carrier 1 (MHz) | 26dB BW (MHz) | OBW (MHz) |
|---|---|---|---|---|---|---|---|
| 40MHz | 5965 | - | - | - | - | 39.82 | 37.46 |
| | 6165 | - | - | - | - | 39.81 | 37.49 |
| | 6405 | - | - | - | - | 39.79 | 37.50 |
| 40 + 40MHz Contiguous | 5965+6005 | - | - | - | - | 79.78 | 76.91 |
| | 6165+6205 | - | - | - | - | 79.78 | 77.02 |
| | 6365+6405 | - | - | - | - | 79.74 | 77.02 |
| 40+40MHz Non-contiguous | 5965+6405 | 39.74 | 39.74 | 37.59 | 37.66 | 79.49 | 75.24 |

Conducted Output Power
Antenna Gain = 15.90dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna
Directional Gain (4H/4V) = 14.84dBi + 10log(Ntx = 4 / Nss = 2) = 18.91dBi

Power Spectral Density
Antenna Gain = 15.90dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna
Directional Gain (4H/4V) = 14.84dBi + 10log(Ntx = 4 / Nss = 2) = 18.91dBi

**<X2 Mdoe>**

| BW | Freq (MHz) | Carrier | Frequency (MHz) | Ant # | Condcuted Power (dBm) | Antenna Gain (dBi) | MIMO factor (dB) | DG (dBi) | Total Conducted power (dBm) | Total EIRP (dBm) | EIRP Limit (dBm) | Pass/Fail | ADAK | Attn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Contiguous | 5965+6005 | C2 | 5965 | Ant 0 of 0~3 | 11.06 | 15.90 | 6.02 | 15.90 | 20.09 | 35.99 | 36 | Pass | 24 | 1_0.9 |
| | | C3 | 6005 | Ant 4 of 4~7 | 11.06 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | 6165+6205 | C2 | 6165 | Ant 0 of 0~3 | 11.02 | 15.90 | 6.02 | 15.90 | 20.05 | 35.95 | 36 | Pass | 21 | -0.6_-1.3 |
| | | C3 | 6205 | Ant 4 of 4~7 | 11.02 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | 6365+6405 | C2 | 6365 | Ant 0 of 0~3 | 11.03 | 15.90 | 6.02 | 15.90 | 20.07 | 35.96 | 36 | Pass | 21 | 0.9_1.1 |
| | | C3 | 6405 | Ant 4 of 4~7 | 11.04 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| 40+40+40MHz Contiguous | 5965+6005+6045 | C0 | 5965 | Ant 0 of 0~3 | 11.9 | 15.90 | 6.02 | 15.90 | 19.84 | 35.74 | 36 | Pass | 24 | 1.4_0.9_0.8 |
| | | C2 | 6005 | | | | | | | | 36 | | | |
| | | C1 | 6045 | Ant 4 of 4~7 | 9.35 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | 6165+6205+6245 | C0 | 5965 | Ant 0 of 0~3 | 12.31 | 15.90 | 6.02 | 15.90 | 20.09 | 35.99 | 36 | Pass | 18 | -0.4_-0.4_-0.5 |
| | | C2 | 6005 | | | | | | | | 36 | | | |
| | | C1 | 6245 | Ant 4 of 4~7 | 9.29 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | 6325+6365+6405 | C0 | 5965 | Ant 0 of 0~3 | 12.32 | 15.90 | 6.02 | 15.90 | 20.09 | 35.99 | 36 | Pass | 18 | 0_0.9_1.4 |
| | | C2 | 6005 | | | | | | | | 36 | | | |
| | | C1 | 6405 | Ant 4 of 4~7 | 9.29 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| 40+40+40+40MHz Contiguous | 5965+6005+6045+6085 | C0 | 5965 | Ant 0 of 0~3 | 10.93 | 15.90 | 6.02 | 15.90 | 20.02 | 35.92 | 36 | Pass | 27_24 | 2.9_0.7 |
| | | C2 | 6005 | | | | | | | | 36 | | | |
| | | C1 | 6045 | Ant 4 of 4~7 | 11.05 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | | C3 | 6085 | | | | | | | | 36 | | | |
| | 6125+6165+6205+6245 | C0 | 6125 | Ant 0 of 0~3 | 11.03 | 15.90 | 6.02 | 15.90 | 20.05 | 35.94 | 36 | Pass | 21 | 0.5_0.3 |
| | | C2 | 6165 | | | | | | | | 36 | | | |
| | | C1 | 6205 | Ant 4 of 4~7 | 11 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | | C3 | 6245 | | | | | | | | 36 | | | |
| | 6285+6325+6365+6405 | C0 | 6285 | Ant 0 of 0~3 | 11.02 | 15.90 | 6.02 | 15.90 | 20.06 | 35.96 | 36 | Pass | 21 | 0.5_1.5_1.9 |
| | | C2 | 6325 | | | | | | | | 36 | | | |
| | | C1 | 6365 | Ant 4 of 4~7 | 11.04 | 15.90 | 6.02 | 15.90 | | | 36 | | | |
| | | C3 | 6405 | | | | | | | | 36 | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Non-Contiguous | 5965+6405 | C2 | 5965 | Ant 0 of 0~3 | 10.97 | 15.90 | 6.02 | 15.90 | 20.06 | 35.96 | 36 | Pass | 24 | 1 |
| | | C3 | 6405 | Ant 4 of 4~7 | 11.09 | 15.90 | 6.02 | 15.90 | | | 36 | | 18 | -0.6 |
| 40 + 40 + 40MHz Non-Contiguous | 5965+6165+6405 | C0 | 5965 | Ant 0 of 0~3 | 9.18 | 15.90 | 6.02 | 15.90 | 19.99 | 35.89 | 36 | Pass | 24 | 1 |
| | | C2 | 6165 | | 9.2 | 15.90 | 6.02 | 15.90 | | | 36 | | 24 | 1.9 |
| | | C1 | 6405 | Ant 4 of 4~7 | 9.21 | 15.90 | 6.02 | 15.90 | | | 36 | | 24 | 4.1 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 5965+6085+6205+6405 | C0 | 5965 | Ant 0 of 0~3 | 8.1 | 15.90 | 6.02 | 15.90 | 20.08 | 35.98 | 36 | Pass | 21 | -0.4 |
| | | C2 | 6085 | | 8.01 | 15.90 | 6.02 | 15.90 | | | 36 | | 21 | -0.1 |
| | | C1 | 6205 | Ant 4 of 4~7 | 8.05 | 15.90 | 6.02 | 15.90 | | | 36 | | 21 | 0 |
| | | C3 | 6405 | | 8 | 15.90 | 6.02 | 15.90 | | | 36 | | 21 | 2.1 |

| BW | Freq (MHz) | Carrier | Frequency (MHz) | Ant # | Condcuted PSD (dBm/MHz) | Antenna Gain (dBi) | MIMO Factor (dB) | DG (dBi) | Total Conducted PSD (dBm/MHz) | Total EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Pass/Fail | Number of Ant | Number of SS | SS Correction |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Contiguous | 5965+6005 | C2 | 5965 | Ant 0 of 0~3 | -3.73 | 15.90 | 6.02 | 15.90 | 5.23 | 21.13 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6005 | Ant 4 of 4~7 | -3.88 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | 6165+6205 | C2 | 6165 | Ant 0 of 0~3 | -3.62 | 15.90 | 6.02 | 15.90 | 5.21 | 21.11 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6205 | Ant 4 of 4~7 | -4.02 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | 6365+6405 | C2 | 6365 | Ant 0 of 0~3 | -3.95 | 15.90 | 6.02 | 15.90 | 5.13 | 21.03 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6405 | Ant 4 of 4~7 | -3.86 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| 40+40+40MHz Contiguous | 5965+6005+6045 | C0 | 5965 | Ant 0 of 0~3 | -5.83 | 15.90 | 6.02 | 15.90 | 3.32 | 19.22 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6005 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6045 | Ant 4 of 4~7 | -5.6 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | 6165+6205+6245 | C0 | 6165 | Ant 0 of 0~3 | -5.64 | 15.90 | 6.02 | 15.90 | 3.20 | 19.10 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6205 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6245 | Ant 4 of 4~7 | -6.02 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | 6325+6365+6405 | C0 | 6325 | Ant 0 of 0~3 | -5.81 | 15.90 | 6.02 | 15.90 | 3.38 | 19.28 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6365 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6405 | Ant 4 of 4~7 | -5.5 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| 40+40+40+40MHz Contiguous | 5965+6005+6045+6085 | C0 | 5965 | Ant 0 of 0~3 | -6.88 | 15.90 | 6.02 | 15.90 | 2.25 | 18.15 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6005 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6045 | Ant 4 of 4~7 | -6.69 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6085 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | 6125+6165+6205+6245 | C0 | 6125 | Ant 0 of 0~3 | -6.58 | 15.90 | 6.02 | 15.90 | 2.32 | 18.22 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6165 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6205 | Ant 4 of 4~7 | -6.84 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6245 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | 6285+6325+6365+6405 | C0 | 6285 | Ant 0 of 0~3 | -6.87 | 15.90 | 6.02 | 15.90 | 2.20 | 18.10 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6325 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6365 | Ant 4 of 4~7 | -6.8 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6405 | | | | | | | | 23 | | 4 | 2 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Non-Contiguous | 5965+6405 | C2 | 5965 | Ant 0 of 0~3 | -3.66 | 15.90 | 6.02 | 15.90 | 5.40 | 21.29 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6405 | Ant 4 of 4~7 | -3.61 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| 40 + 40 + 40MHz Non-Contiguous | 5965+6165+6405 | C0 | 5965 | Ant 0 of 0~3 | -5.85 | 15.90 | 6.02 | 15.90 | 5.08 | 20.98 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6165 | | -5.61 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6405 | Ant 4 of 4~7 | -5.68 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 5965+6085+6205+6405 | C0 | 5965 | Ant 0 of 0~3 | -6.95 | 15.90 | 6.02 | 15.90 | 5.18 | 21.08 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6085 | | -6.73 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6205 | Ant 4 of 4~7 | -6.83 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6405 | | -6.92 | 15.90 | 6.02 | 15.90 | | | 23 | | 4 | 2 | 0.00 |

| BW | Freq (MHz) | 26dB BW Carrier 0 (MHz) | 26dB BW Carrier 2 (MHz) | 26dB BW Carrier 1 (MHz) | 26dB BW Carrier 3 (MHz) | OBW Carrier 0 (MHz) | OBW Carrier 2 (MHz) | OBW Carrier 1 (MHz) | OBW Carrier 3 (MHz) | 26dB BW (MHz) | OBW (MHz) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 + 40MHz Contiguous | 5965+6005 | - | 39.81 | - | 39.79 | - | 37.47 | - | 37.49 | 79.60 | 74.95 |
| | 6165+6205 | - | 39.81 | - | 39.79 | - | 37.50 | - | 37.49 | 79.60 | 74.98 |
| | 6365+6405 | - | 39.79 | - | 39.82 | - | 37.53 | - | 37.49 | 79.62 | 75.01 |
| 40 + 40 + 40MHz Contiguous | 5965+6005+6045 | 79.81 | | 39.79 | - | 76.92 | | 37.50 | - | 119.60 | 114.42 |
| | 6165+6205+6245 | 79.78 | | 39.78 | - | 76.91 | | 37.49 | - | 119.55 | 114.40 |
| | 6325+6365+6405 | 79.74 | | 39.76 | - | 76.97 | | 37.49 | - | 119.50 | 114.46 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 5965+6005+6045+6085 | 79.78 | | 79.84 | | 76.92 | | 76.97 | | 159.62 | 153.90 |
| | 6125+6165+6205+6245 | 79.78 | | 79.81 | | 77.03 | | 76.98 | | 159.58 | 154.02 |
| | 6285+6325+6365+6405 | 79.78 | | 79.81 | | 76.89 | | 77.01 | | 159.58 | 153.90 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Non-Contiguous | 5965+6405 | - | 39.76 | - | 39.78 | - | 37.49 | - | 37.53 | 79.54 | 75.01 |
| 40 + 40 + 40MHz Non-Contiguous | 5965+6165+6405 | 39.74 | 39.81 | 39.76 | | 37.51 | 37.51 | 37.58 | - | 119.31 | 112.59 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 5965+6085+6205+6405 | 39.76 | 39.78 | 39.79 | 39.78 | 37.53 | 37.54 | 37.58 | 37.57 | 159.10 | 150.20 |

Conducted Output Power
Antenna Gain = 15.90dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna, X2 mode sets 8 antennas into 2 groups, each group has 4 antennas
Directional Gain (4H/4V) = 15.90dBi + 10log(Ntx = 2 / Nss = 2) = 15.90dBi

Power Spectral Density
Antenna Gain = 15.90dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna, X2 mode sets 8 antennas into 2 groups, each group has 4 antennas
Directional Gain (4H/4V) = 15.90dBi + 10log(Ntx = 2 / Nss = 2) = 15.90dBi

<X1 Mdoe>

**Conducted Power on Port 0H**

| BW | Freq (MHz) | Conducted Power Carrier 0 (dBm) | Conducted Power Carrier 1 (dBm) | Condcuted Power (dBm) | MIMO Factor (dB) | Antenna Gain (dBi) | DG (dBi) | Total Conducted Power (dBm) | Total EIRP (dBm) | EIRP Limit (dBm) | Pass/Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40MHz | 6545 | - | - | 8.24 | 9.03 | 15.71 | 18.72 | 17.27 | 35.99 | 36 | Pass |
| | 6685 | - | - | 8.23 | 9.03 | 15.71 | 18.72 | 17.26 | 35.98 | 36 | Pass |
| | 6855 | - | - | 8.24 | 9.03 | 15.71 | 18.72 | 17.27 | 35.99 | 36 | Pass |
| 40+40MHz Contiguous | 6545+6585 | - | - | 8.23 | 9.03 | 15.71 | 18.72 | 17.26 | 35.98 | 36 | Pass |
| | 6685+6725 | - | - | 8.24 | 9.03 | 15.71 | 18.72 | 17.27 | 35.99 | 36 | Pass |
| | 6815+6855 | - | - | 8.23 | 9.03 | 15.71 | 18.72 | 17.26 | 35.98 | 36 | Pass |
| 40+40MHz Non-Contiguous | 6545+6855 | 5.18 | 5.25 | 8.23 | 9.03 | 15.71 | 18.72 | 17.26 | 35.98 | 36 | Pass |

**Power Setting**

| ADAK | Attn |
|---|---|
| 21 | 0.4 |
| 21 | 1.1 |
| 21 | 1.7 |
| 24 | -2_-1 |
| 24 | -2.5 |
| 24 | -0.8_-1.5 |
| 27 | 0.9_2.4 |

**PSD on Port 0H**

| BW | Freq (MHz) | Conducted PSD Carrier 0 (dBm/MHz) | Conducted PSD Carrier 1 (dBm/MHz) | Condcuted PSD (dBm/MHz) | MIMO Factor (dB) | Antenna Gain (dBi) | DG (dBi) | Total Conducted PSD (dBm/MHz) | Total EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Pass/Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40MHz | 6545 | - | - | -7.08 | 9.03 | 15.71 | 18.72 | 1.95 | 20.67 | 23 | Pass |
| | 6685 | - | - | -6.56 | 9.03 | 15.71 | 18.72 | 2.47 | 21.19 | 23 | Pass |
| | 6855 | - | - | -6.94 | 9.03 | 15.71 | 18.72 | 2.09 | 20.81 | 23 | Pass |
| 40 + 40MHz Contiguous | 6545+6585 | - | - | -9.21 | 9.03 | 15.71 | 18.72 | -0.18 | 18.54 | 23 | Pass |
| | 6685+6725 | - | - | -8.97 | 9.03 | 15.71 | 18.72 | 0.06 | 18.78 | 23 | Pass |
| | 6815+6855 | - | - | -9.56 | 9.03 | 15.71 | 18.72 | -0.53 | 18.19 | 23 | Pass |
| 40+40MHz Non-Contiguous | 6545+6855 | -9.43 | -9.89 | -9.43 | 9.03 | 15.71 | 18.72 | -0.40 | 18.32 | 23 | Pass |

**MIMO Calculation**

| Number of Ant | Number of SS | SS Correction |
|---|---|---|
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |
| 8 | 2 | 3.01 |

| BW | Freq (MHz) | 26dB BW Carrier 0 (MHz) | 26dB BW Carrier 1 (MHz) | OBW Carrier 0 (MHz) | OBW Carrier 1 (MHz) | 26dB BW (MHz) | OBW (MHz) |
|---|---|---|---|---|---|---|---|
| 40MHz | 6545 | - | - | - | - | 39.79 | 37.51 |
| | 6685 | - | - | - | - | 39.84 | 37.51 |
| | 6855 | - | - | - | - | 39.82 | 37.51 |
| 40 + 40MHz Contiguous | 6545+6585 | - | - | - | - | 79.71 | 76.98 |
| | 6685+6725 | - | - | - | - | 79.74 | 77.02 |
| | 6815+6855 | - | - | - | - | 79.78 | 77.00 |
| 40+40MHz Non-contiguous | 6545+6855 | 39.74 | 39.78 | 37.64 | 37.65 | 79.52 | 75.28 |

Conducted Output Power
Antenna Gain = 15.71dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna
Directional Gain (4H/4V) = 15.71dBi + 10log(Ntx = 4 / Nss = 2) = 18.72dBi

Power Spectral Density
Antenna Gain = 15.71dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna
Directional Gain (4H/4V) = 15.71dBi + 10log(Ntx = 4 / Nss = 2) = 18.72dBi

**<X2 Mdoe>**

| BW | Freq (MHz) | Carrier | Frequency (MHz) | Ant # | Condcuted Power (dBm) | Antenna Gain | MIMO factor (dB) | DG (dBi) | Total Conducted power (dBm) | Total EIRP (dBm) | EIRP Limit (dBm) | Pass/Fail | ADAK | Attn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Contiguous | 6545+6585 | C2 | 6545 | Ant 0 of 0~3 | 11.04 | 15.71 | 6.02 | 15.71 | 20.08 | 35.78 | 36 | Pass | 18 | 1.5_1.5 |
| | | C3 | 6585 | Ant 4 of 4~7 | 11.05 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | 6685+6725 | C2 | 6685 | Ant 0 of 0~3 | 11.01 | 15.71 | 6.02 | 15.71 | 20.06 | 35.76 | 36 | Pass | 18 | 2.6_2.8 |
| | | C3 | 6725 | Ant 4 of 4~7 | 11.04 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | 6815+6855 | C2 | 6815 | Ant 0 of 0~3 | 11.05 | 15.71 | 6.02 | 15.71 | 20.07 | 35.77 | 36 | Pass | 18 | 2.8_2.6 |
| | | C3 | 6855 | Ant 4 of 4~7 | 11.02 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| 40+40+40MHz Contiguous | 6545+6585+6625 | C0 | 6545 | Ant 0 of 0~3 | 12.53 | 15.71 | 6.02 | 15.71 | 20.29 | 36.00 | 36 | Pass | 21 | 0.2_-0.2 |
| | | C2 | 6585 | | | | | | | | 36 | | | |
| | | C1 | 6625 | Ant 4 of 4~7 | 9.45 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | 6645+6685+6725 | C0 | 6645 | Ant 0 of 0~3 | 12.53 | 15.71 | 6.02 | 15.71 | 20.27 | 35.98 | 36 | Pass | 21 | 1_0.3_1.7 |
| | | C2 | 6685 | | | | | | | | 36 | | | |
| | | C1 | 6725 | Ant 4 of 4~7 | 9.41 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | 6775+6815+6855 | C0 | 6775 | Ant 0 of 0~3 | 12.52 | 15.71 | 6.02 | 15.71 | 20.26 | 35.97 | 36 | Pass | 21 | 2.2_1.6_2.9 |
| | | C2 | 6815 | | | | | | | | 36 | | | |
| | | C1 | 6855 | Ant 4 of 4~7 | 9.40 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| 40+40+40+40MHz Contiguous | 6545+6585+6625+6665 | C0 | 6545 | Ant 0 of 0~3 | 11.20 | 15.71 | 6.02 | 15.71 | 20.28 | 35.99 | 36 | Pass | 21 | 1.1_0.4_1.4 |
| | | C2 | 6585 | | | | | | | | 36 | | | |
| | | C1 | 6625 | Ant 4 of 4~7 | 11.30 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | | C3 | 6665 | | | | | | | | 36 | | | |
| | 6645+6685+6725+6765 | C0 | 6645 | Ant 0 of 0~3 | 11.24 | 15.71 | 6.02 | 15.71 | 20.27 | 35.98 | 36 | Pass | 21 | 2.2_1.2_2.9 |
| | | C2 | 6685 | | | | | | | | 36 | | | |
| | | C1 | 6725 | Ant 4 of 4~7 | 11.24 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | | C3 | 6765 | | | | | | | | 36 | | | |
| | 6735+6775+6815+6855 | C0 | 6735 | Ant 0 of 0~3 | 11.22 | 15.71 | 6.02 | 15.71 | 20.27 | 35.97 | 36 | Pass | 21 | 0.7_1.5 |
| | | C2 | 6775 | | | | | | | | 36 | | | |
| | | C1 | 6815 | Ant 4 of 4~7 | 11.25 | 15.71 | 6.02 | 15.71 | | | 36 | | | |
| | | C3 | 6855 | | | | | | | | 36 | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Non-Contiguous | 6545+6855 | C2 | 6545 | Ant 0 of 0~3 | 11.05 | 15.71 | 6.02 | 15.71 | 19.50 | 35.21 | 36 | Pass | 18 | 1.7 |
| | | C3 | 6855 | Ant 4 of 4~7 | 9.79 | 15.71 | 6.02 | 15.71 | | | 36 | | 18 | 1 |
| 40 + 40 + 40MHz Non-Contiguous | 6545+6685+6855 | C0 | 6545 | Ant 0 of 0~3 | 6.19 | 15.71 | 6.02 | 15.71 | 17.43 | 33.14 | 36 | Pass | 21 | -2.5 |
| | | C2 | 6685 | | 6.16 | 15.71 | 6.02 | 15.71 | | | 36 | | 21 | -2.5 |
| | | C1 | 6855 | Ant 4 of 4~7 | 7.44 | 15.71 | 6.02 | 15.71 | | | 36 | | 21 | 1 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 6545+6645+6745+6855 | C0 | 6545 | Ant 0 of 0~3 | 8.24 | 15.71 | 6.02 | 15.71 | 20.26 | 35.97 | 36 | Pass | 24 | 2.4 |
| | | C2 | 6645 | | 8.22 | 15.71 | 6.02 | 15.71 | | | 36 | | 24 | 1.1 |
| | | C1 | 6745 | Ant 4 of 4~7 | 8.22 | 15.71 | 6.02 | 15.71 | | | 36 | | 21 | 1.1 |
| | | C3 | 6855 | | 8.21 | 15.71 | 6.02 | 15.71 | | | 36 | | 21 | 0.4 |

| BW | Freq (MHz) | Carrier | Frequency (MHz) | Ant # | Condcuted PSD (dBm/MHz) | Antenna Gain (dBi) | MIMO Factor (dB) | DG (dBi) | Total Conducted PSD (dBm/MHz) | Total EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Pass/Fail | Number of Ant | Number of SS | SS Correction |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Contiguous | 6545+6585 | C2 | 6545 | Ant 0 of 0~3 | -4.46 | 15.71 | 6.02 | 15.71 | 4.64 | 20.35 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6585 | Ant 4 of 4~7 | -4.33 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | 6685+6725 | C2 | 6685 | Ant 0 of 0~3 | -4.15 | 15.71 | 6.02 | 15.71 | 4.94 | 20.65 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6725 | Ant 4 of 4~7 | -4.03 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | 6815+6855 | C2 | 6815 | Ant 0 of 0~3 | -4.3 | 15.71 | 6.02 | 15.71 | 4.68 | 20.39 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6855 | Ant 4 of 4~7 | -4.4 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| 40+40+40MHz Contiguous | 6545+6585+6625 | C0 | 6545 | Ant 0 of 0~3 | -5.39 | 15.71 | 6.02 | 15.71 | 3.55 | 19.26 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6585 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6625 | Ant 4 of 4~7 | -5.58 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | 6645+6685+6725 | C0 | 6645 | Ant 0 of 0~3 | -5.96 | 15.71 | 6.02 | 15.71 | 2.93 | 18.64 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6685 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6725 | Ant 4 of 4~7 | -6.24 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | 6775+6815+6855 | C0 | 6775 | Ant 0 of 0~3 | -6.14 | 15.71 | 6.02 | 15.71 | 2.71 | 18.42 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6815 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6855 | Ant 4 of 4~7 | -6.5 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| 40+40+40+40MHz Contiguous | 6545+6585+6625+6665 | C0 | 6545 | Ant 0 of 0~3 | -5.04 | 15.71 | 6.02 | 15.71 | 4.16 | 19.87 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6585 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6625 | Ant 4 of 4~7 | -4.71 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6665 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | 6645+6685+6725+6765 | C0 | 6645 | Ant 0 of 0~3 | -4.69 | 15.71 | 6.02 | 15.71 | 4.22 | 19.93 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6685 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6725 | Ant 4 of 4~7 | -4.93 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6765 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | 6735+6775+6815+6855 | C0 | 6735 | Ant 0 of 0~3 | -6.68 | 15.71 | 6.02 | 15.71 | 2.45 | 18.16 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6775 | | | | | | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6815 | Ant 4 of 4~7 | -6.48 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6855 | | | | | | | | 23 | | 4 | 2 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Non-Contiguous | 6545+6855 | C2 | 6545 | Ant 0 of 0~3 | -4.26 | 15.71 | 6.02 | 15.71 | 4.31 | 20.02 | 23 | Pass | 4 | 2 | 0.00 |
| | | C3 | 6855 | Ant 4 of 4~7 | -5.23 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| 40 + 40 + 40MHz Non-Contiguous | 6545+6685+6855 | C0 | 6545 | Ant 0 of 0~3 | -8.81 | 15.71 | 6.02 | 15.71 | 2.34 | 18.05 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6685 | | -8.85 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6855 | Ant 4 of 4~7 | -7.78 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 6545+6645+6745+6855 | C0 | 6545 | Ant 0 of 0~3 | -6.96 | 15.71 | 6.02 | 15.71 | 5.25 | 20.96 | 23 | Pass | 4 | 2 | 0.00 |
| | | C2 | 6645 | | -6.62 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | | C1 | 6745 | Ant 4 of 4~7 | -6.59 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |
| | | C3 | 6855 | | -7.02 | 15.71 | 6.02 | 15.71 | | | 23 | | 4 | 2 | 0.00 |

| BW | Freq (MHz) | 26dB BW Carrier 0 (MHz) | 26dB BW Carrier 2 (MHz) | 26dB BW Carrier 1 (MHz) | 26dB BW Carrier 3 (MHz) | OBW Carrier 0 (MHz) | OBW Carrier 2 (MHz) | OBW Carrier 1 (MHz) | OBW Carrier 3 (MHz) | 26dB BW (MHz) | OBW (MHz) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 + 40MHz Contiguous | 6545+6585 | - | 39.79 | - | 39.76 | - | 37.48 | - | 37.47 | 79.55 | 74.94 |
| | 6685+6725 | - | 39.78 | - | 39.78 | - | 37.49 | - | 37.46 | 79.55 | 74.94 |
| | 6815+6855 | - | 39.73 | - | 39.82 | - | 37.46 | - | 37.47 | 79.55 | 74.92 |
| 40 + 40 + 40MHz Contiguous | 6545+6585+6625 | 79.81 | | 39.78 | - | 76.96 | | 37.51 | - | 119.58 | 114.47 |
| | 6645+6685+6725 | 79.81 | | 39.79 | - | 77.00 | | 37.53 | - | 119.60 | 114.52 |
| | 6775+6815+6855 | 79.78 | | 39.79 | - | 76.98 | | 37.53 | - | 119.57 | 114.51 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 6545+6585+6625+6665 | 79.81 | | 79.78 | | 76.98 | | 76.94 | | 159.58 | 153.92 |
| | 6645+6685+6725+6765 | 79.84 | | 79.81 | | 76.98 | | 76.94 | | 159.65 | 153.92 |
| | 6735+6775+6815+6855 | 79.87 | | 79.78 | | 76.98 | | 76.92 | | 159.65 | 153.91 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40+40MHz Non-Contiguous | 6545+6855 | - | 39.78 | - | 39.87 | - | 37.52 | - | 37.52 | 79.65 | 75.03 |
| 40 + 40 + 40MHz Non-Contiguous | 6545+6685+6855 | 39.76 | 39.78 | 39.81 | - | 37.56 | 37.50 | 37.55 | - | 119.34 | 112.60 |
| 40 + 40 + 40 + 40MHz Non-Contiguous | 6545+6645+6745+6855 | 39.76 | 39.78 | 39.82 | 39.86 | 37.62 | 37.61 | 37.57 | 37.57 | 159.22 | 150.35 |

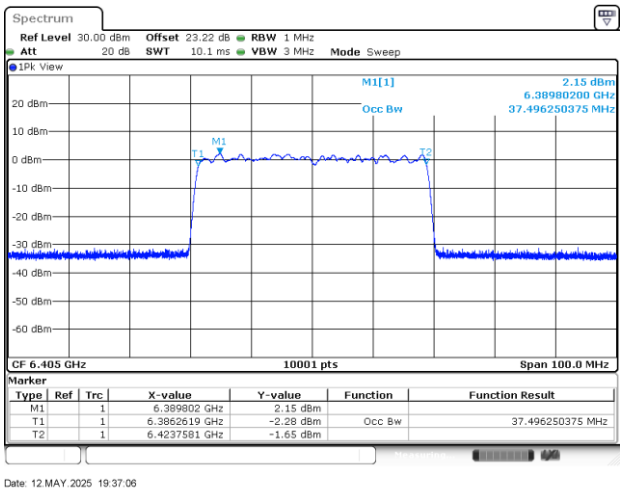
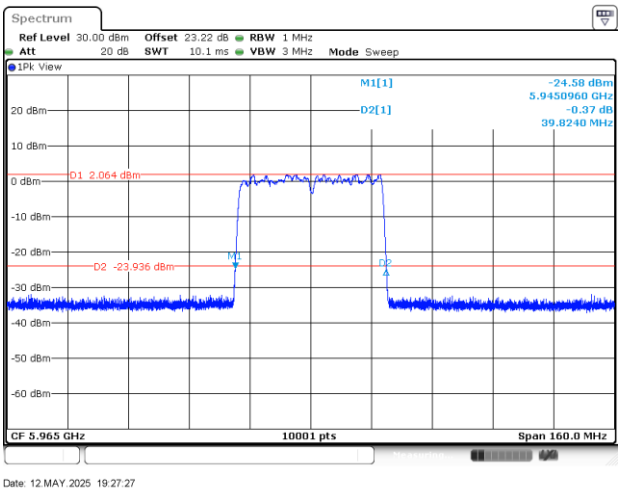
Conducted Output Power
Antenna Gain = 15.71dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna, X2 mode sets 8 antennas into 2 groups, each group has 4 antennas
Directional Gain (4H/4V) = 15.71dBi + 10log(Ntx = 2 / Nss = 2) = 15.71dBi

Power Spectral Density
Antenna Gain = 15.71dBi
The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna, X2 mode sets 8 antennas into 2 groups, each group has 4 antennas
Directional Gain (4H/4V) = 15.71dBi + 10log(Ntx = 2 / Nss = 2) = 15.71dBi

## Test Result of 26dB & 99% Occupied Bandwidth

**<Single Carrier, X1 mode>**

**<40MHz>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |

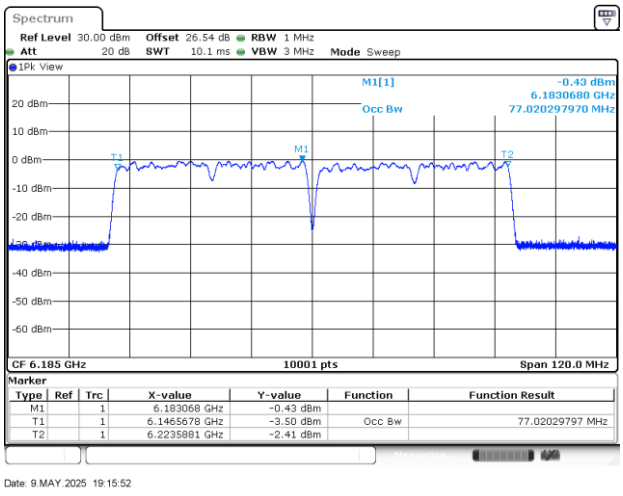
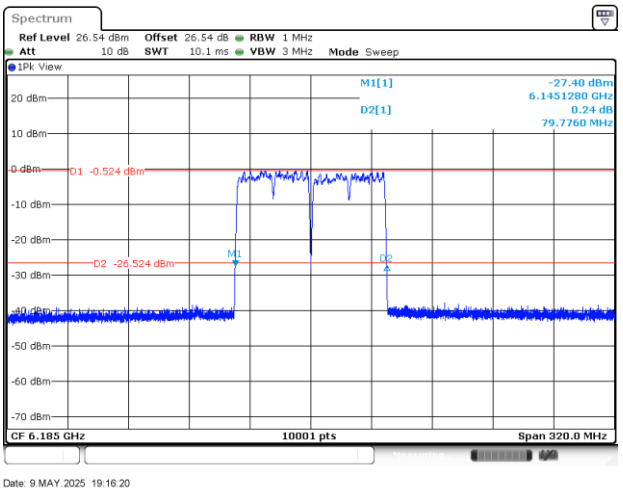




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X1 mode, Contiguous)>**

**<40MHz + 40MHz>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |

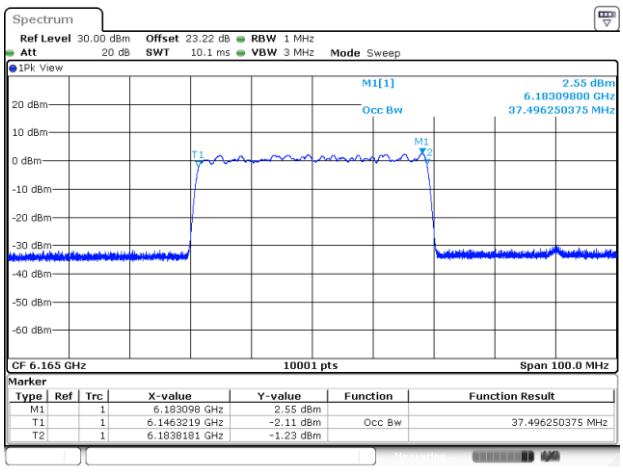
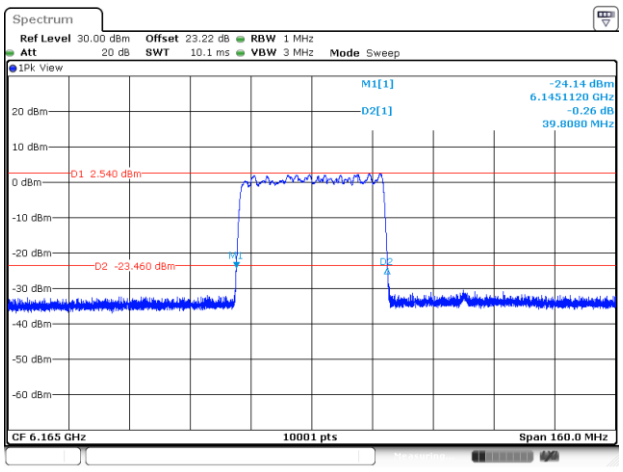




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X2 mode, Contiguous)>**

**<40MHz + 40MHz, Carrier 2>**

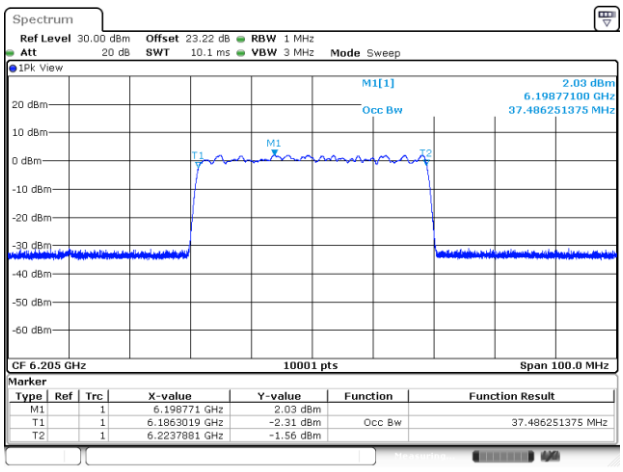
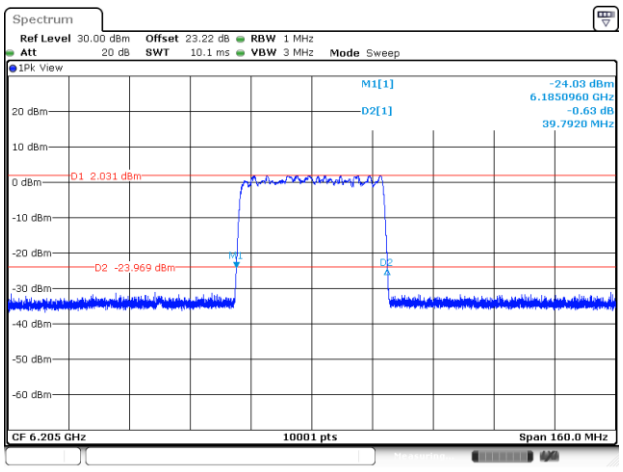
| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<40MHz + 40MHz, Carrier 3>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |

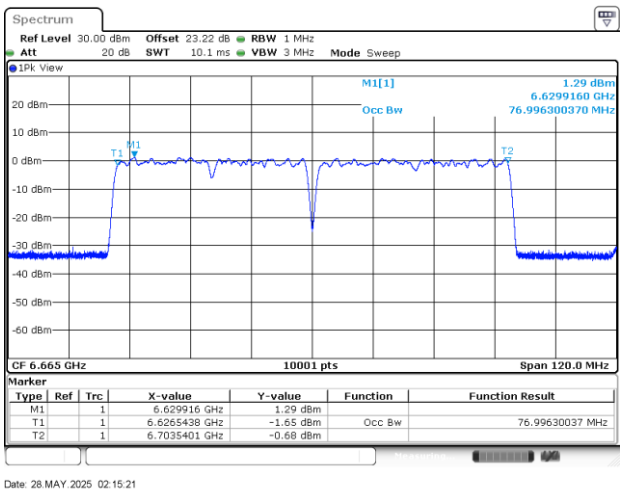
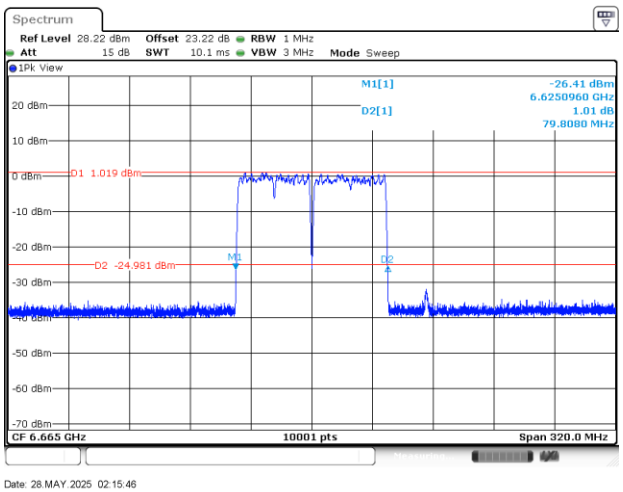




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X2 mode, Contiguous)>**

**<40MHz + 40MHz + 40MHz, Carrier 0+2>**

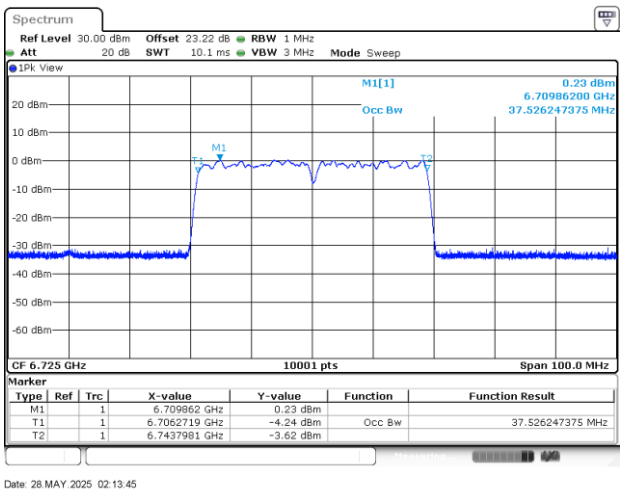
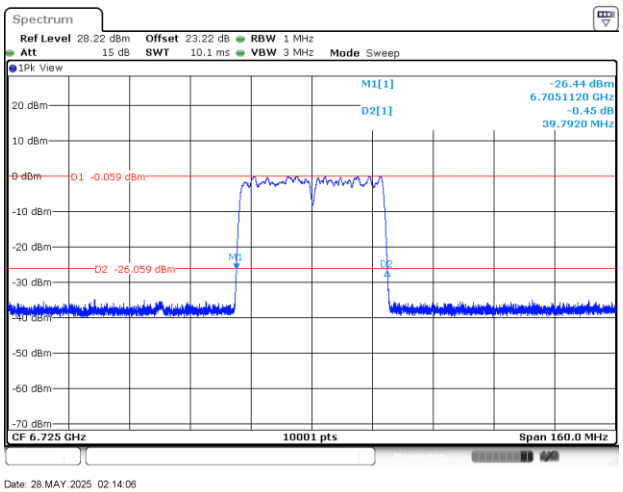
| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<40MHz + 40MHz + 40MHz, Carrier 1>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |

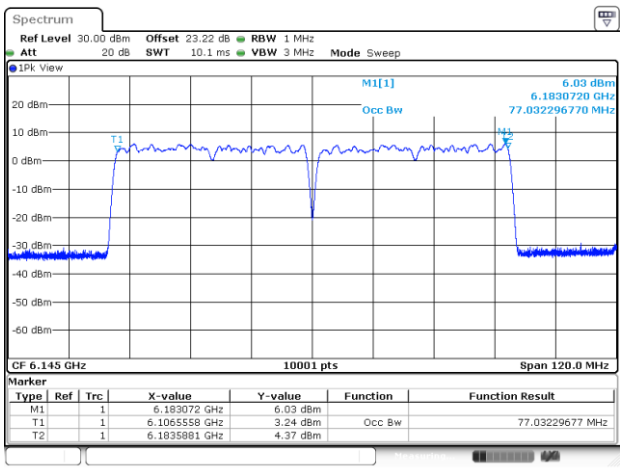
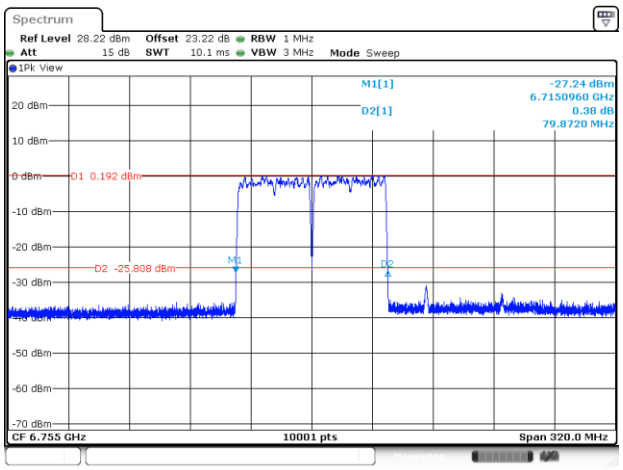




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X2 mode, Contiguous)>**

**<40MHz + 40MHz + 40MHz + 40MHz, Carrier 0+2>**

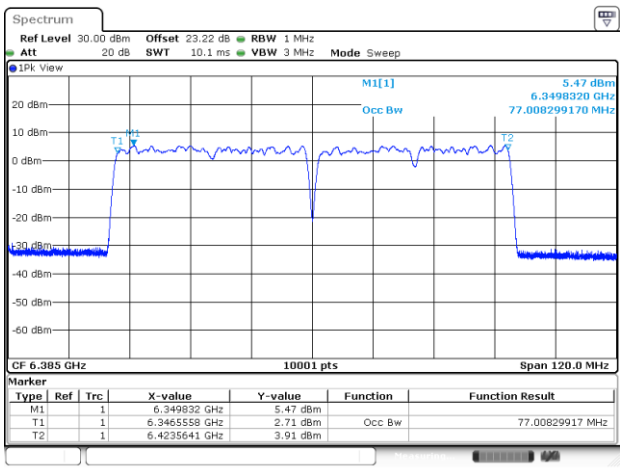
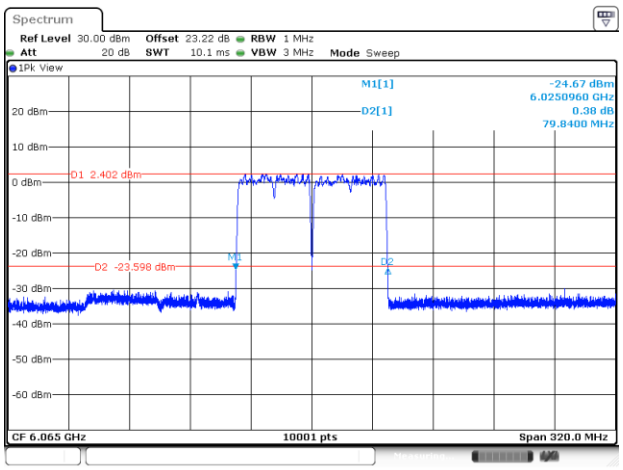
| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<40MHz + 40MHz + 40MHz + 40MHz, Carrier 1+3>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |

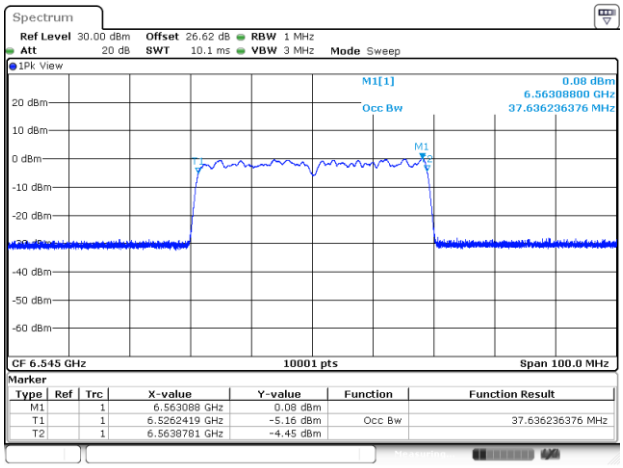
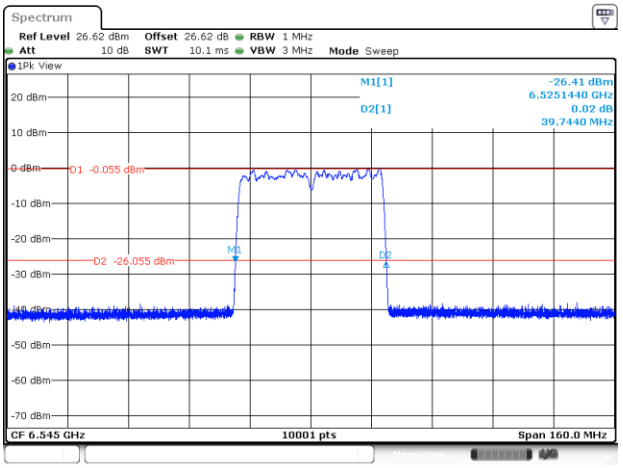
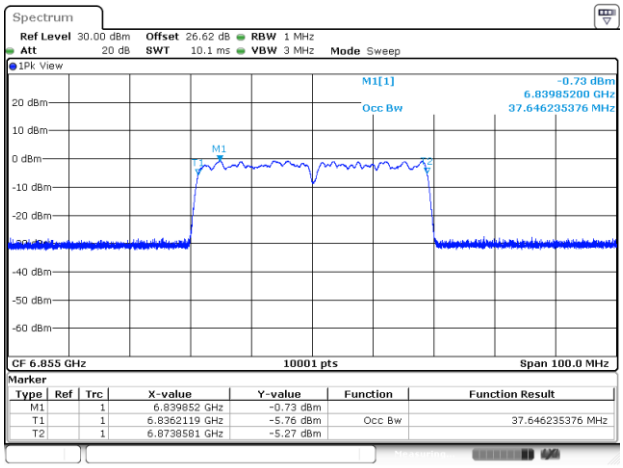
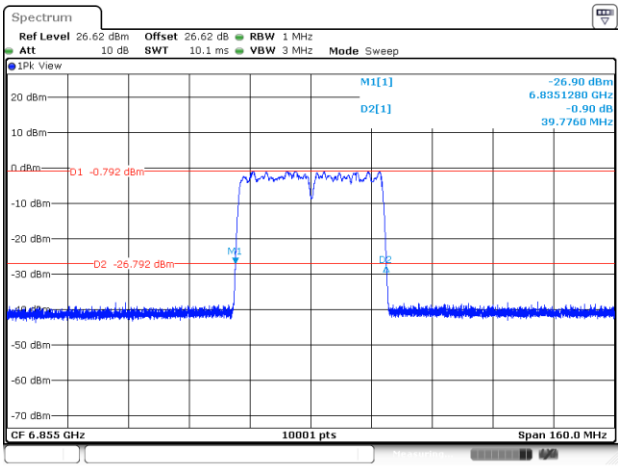




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X1 mode, Non-Contiguous)>**

**<40MHz + 40MHz>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |
|  |  |





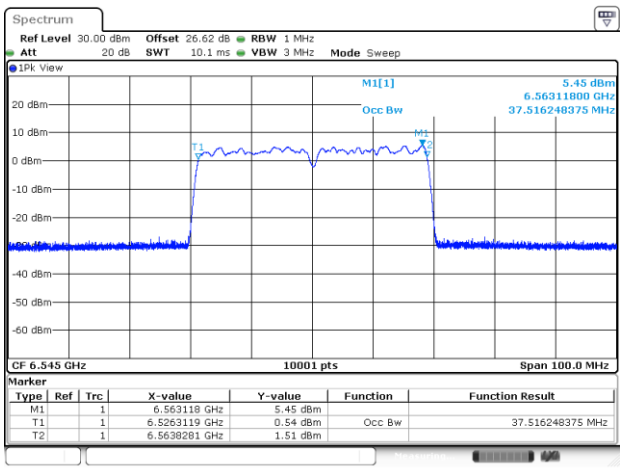
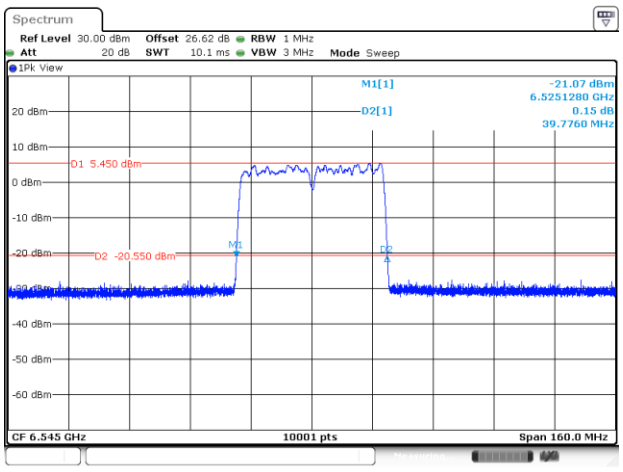
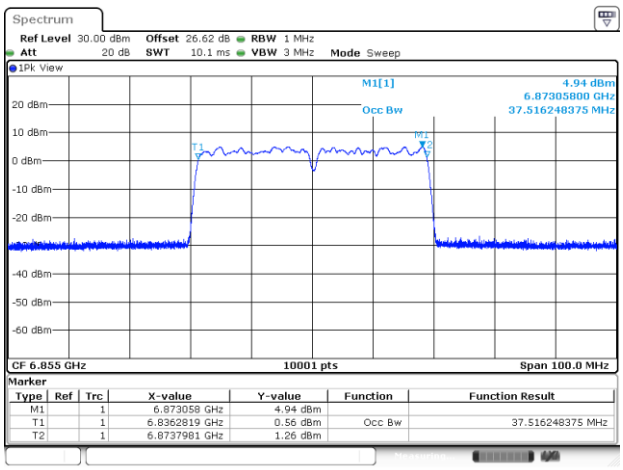
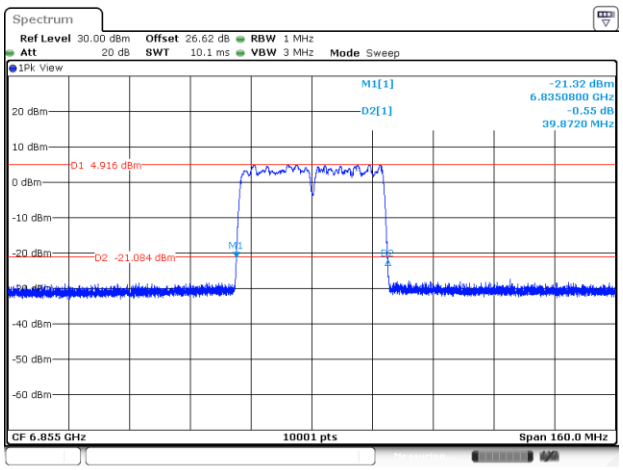




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X2 mode, Non-Contiguous)>**

**<40MHz + 40MHz, Carrier 2 and 3>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |
|  |  |





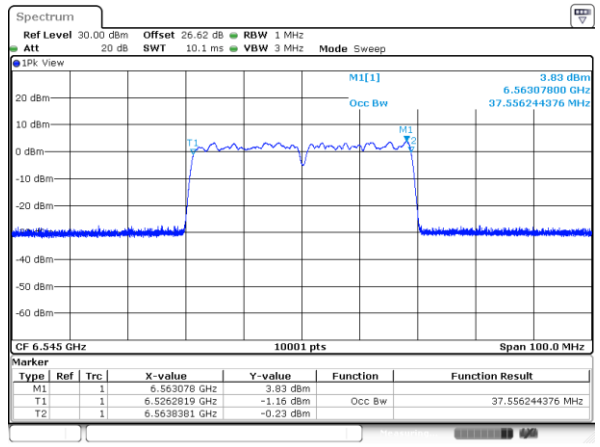
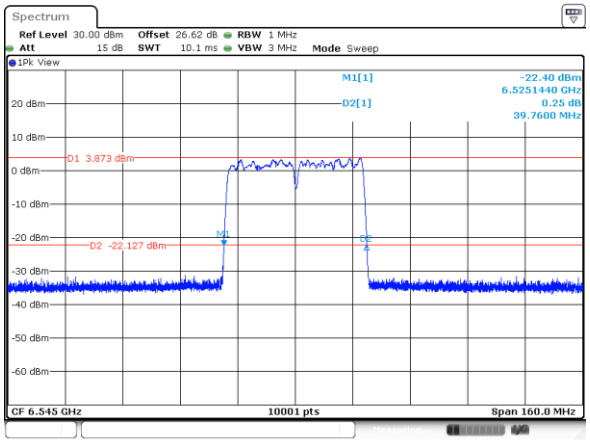
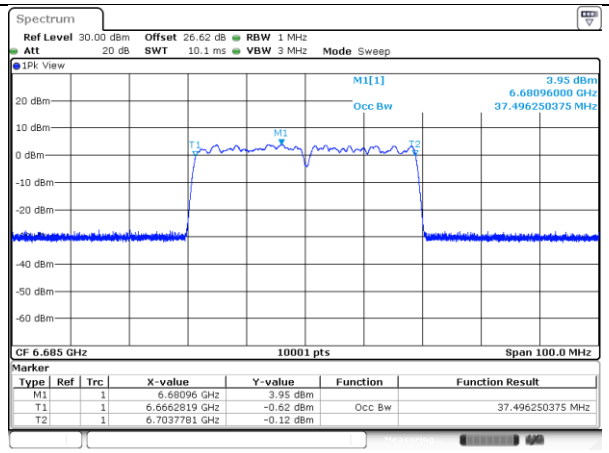
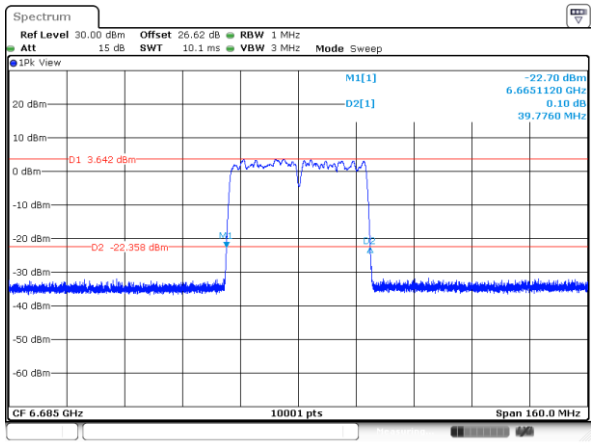
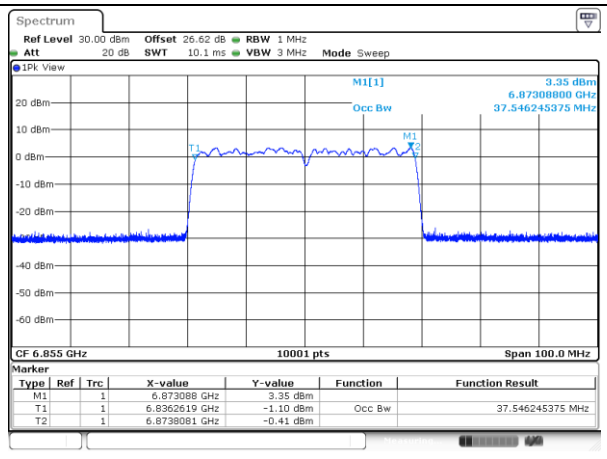
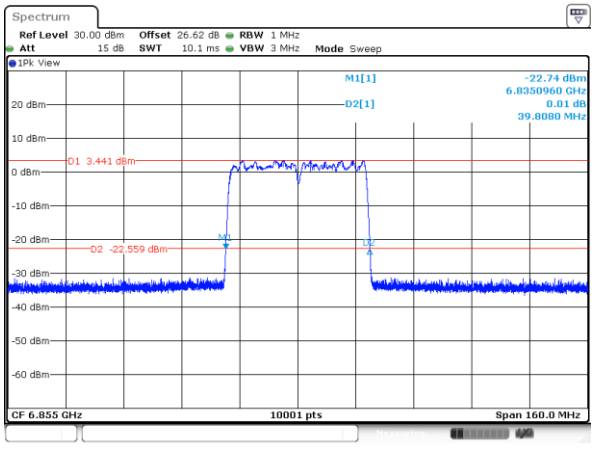




Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X2 mode, Non-Contiguous)>**

**<40MHz + 40MHz + 40MHz, Carrier 0+2 and 1>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |
|  |  |
|  |  |









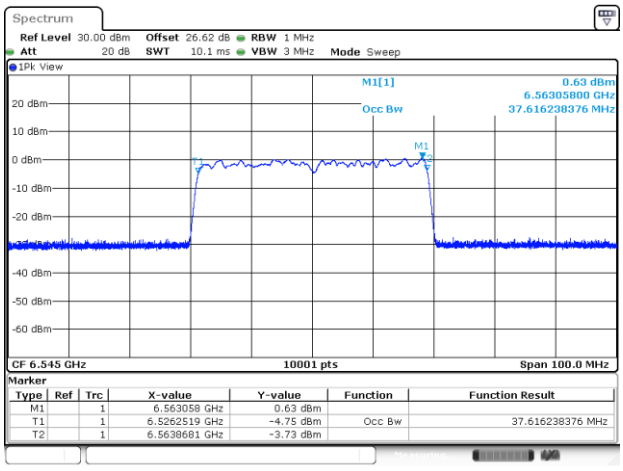
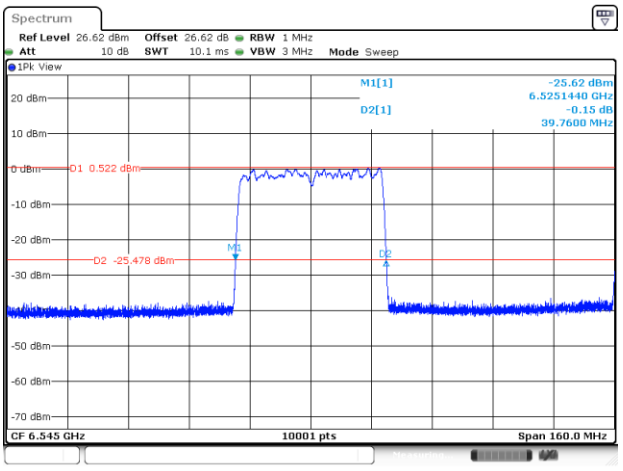
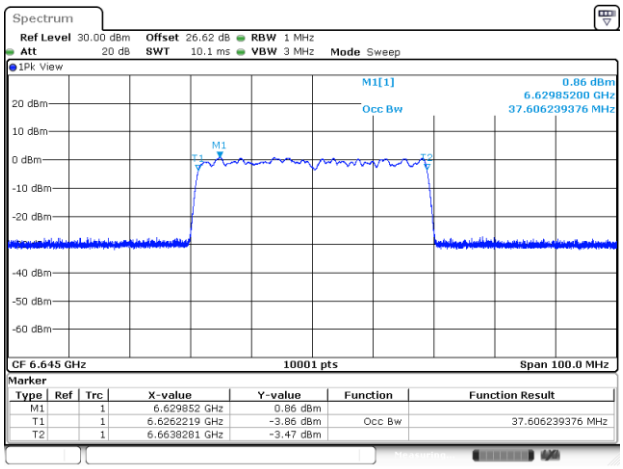
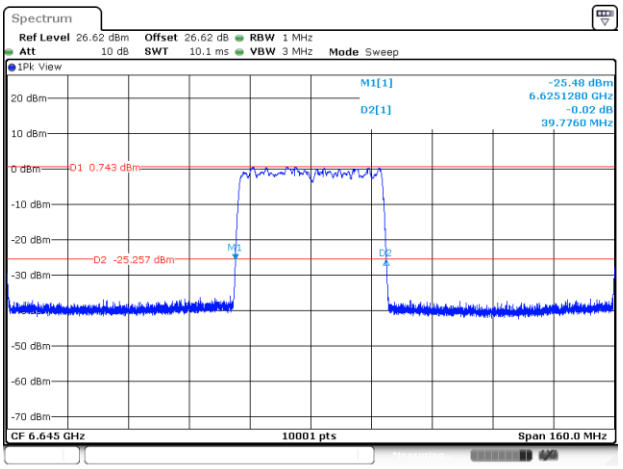
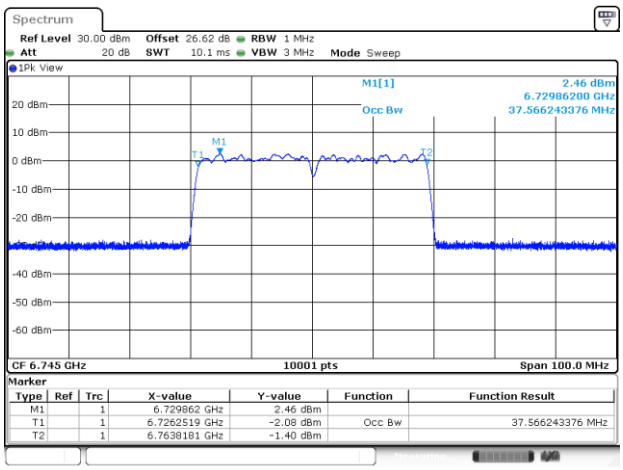
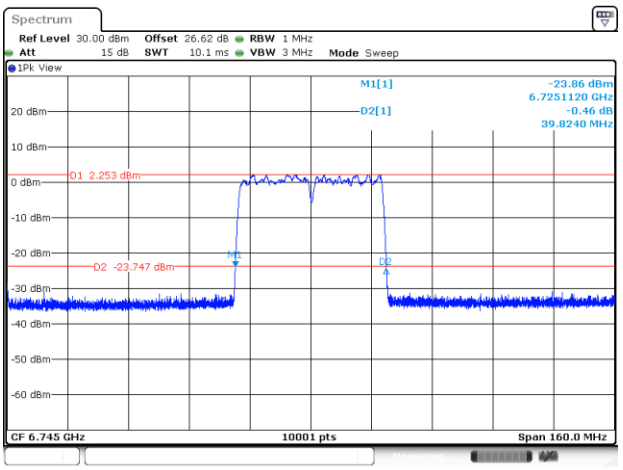


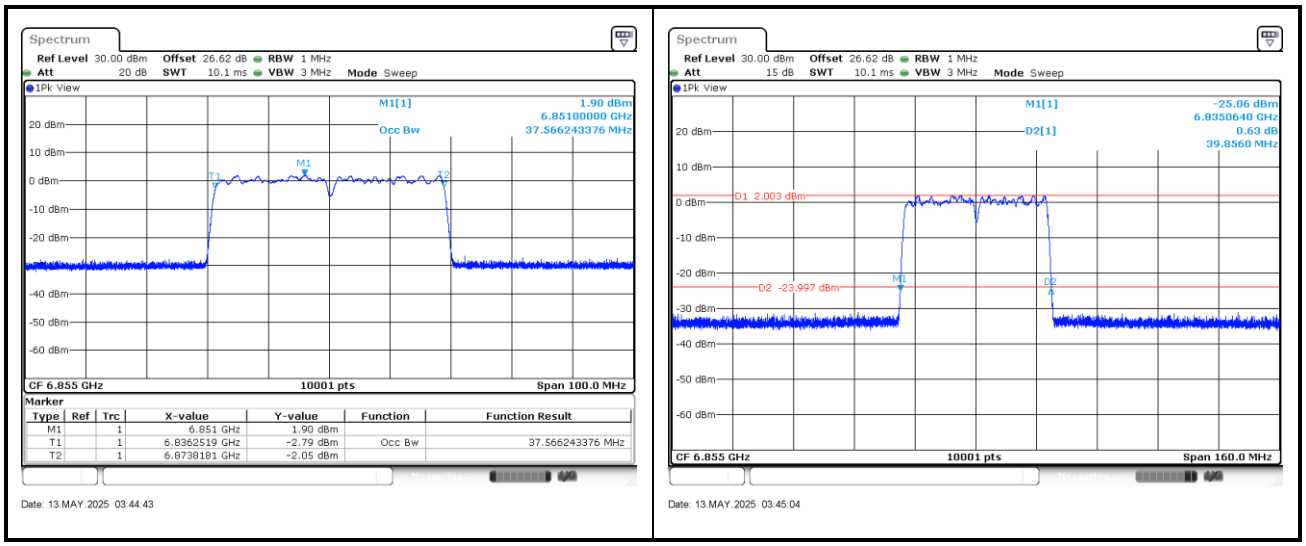


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<Multiple Carrier (X2 mode, Non-Contiguous)>**

**<40MHz + 40MHz + 40MHz + 40MHz, Carrier 0+2 and 1+3>**

| 99% Occupied Bandwidth | 26dB Bandwidth |
|---|---|
|  |  |
|  |  |
|  |  |

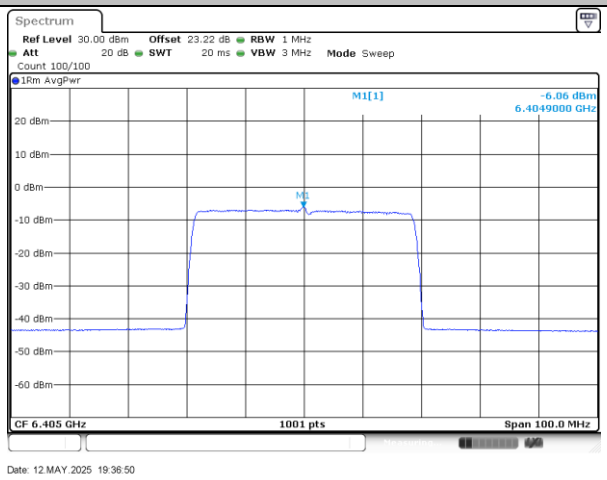



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## Test Result of Power Spectral Density

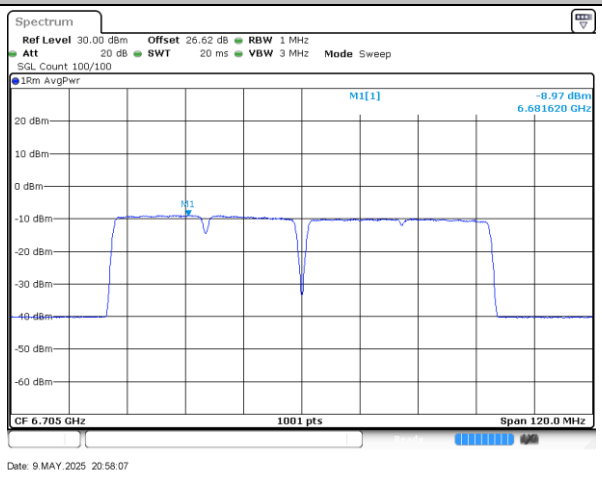
**<Single Carrier, X1 mode>**

**<40MHz>**

| Maximum Power Density Plot (dBm/MHz) |
|---|
|  |

**<Multiple Carrier (X1 mode, Contiguous)>**

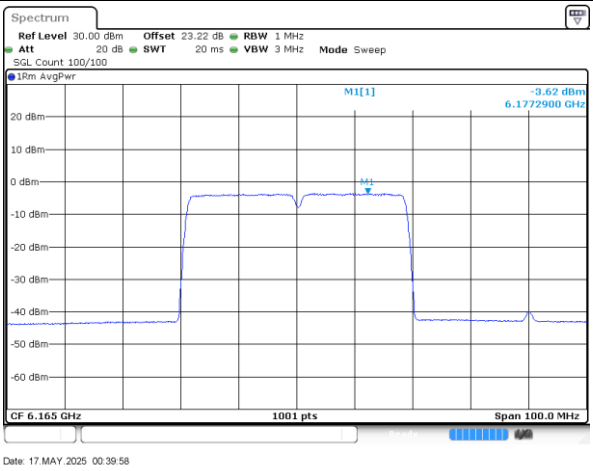
**<40MHz + 40MHz>**

| Maximum Power Density Plot (dBm/MHz) |
|---|
|  |

**<Multiple Carrier (X2 mode, Contiguous)>**

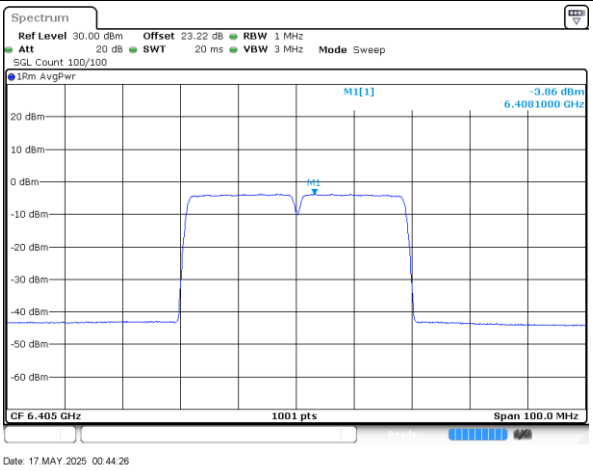
**<40MHz + 40MHz, Carrier 2>**

| Maximum Power Density Plot (dBm/MHz) |
|---|




**<40MHz + 40MHz, Carrier 3>**

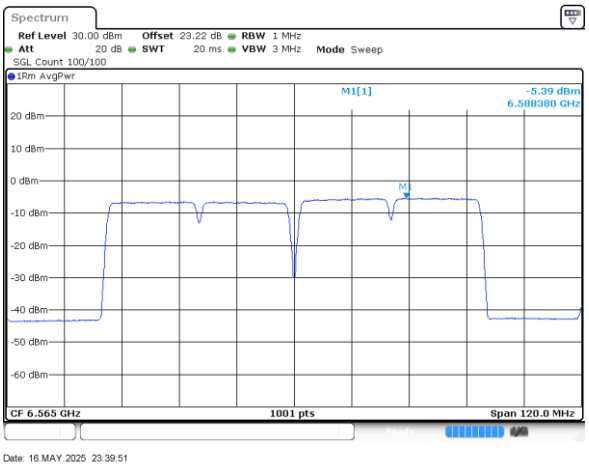
| Maximum Power Density Plot (dBm/MHz) |
|---|



**<Multiple Carrier (X2 mode, Contiguous)>**

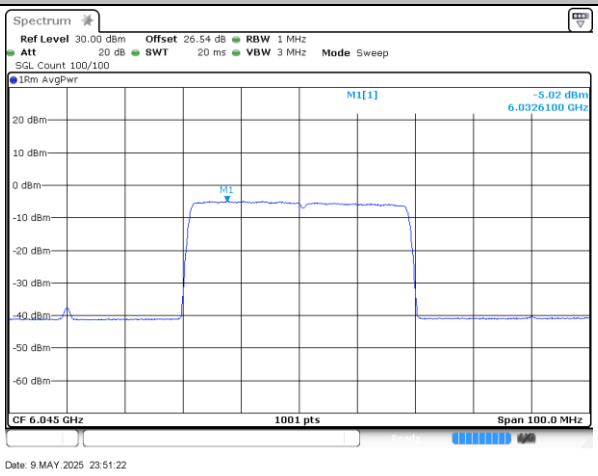
**<40MHz + 40MHz + 40MHz, Carrier 0+2>**

| Maximum Power Density Plot (dBm/MHz) |
|---|




**<40MHz + 40MHz + 40MHz, Carrier 1>**

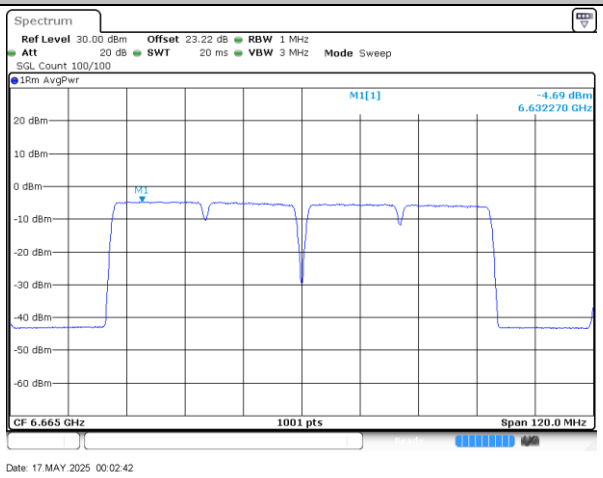
| Maximum Power Density Plot (dBm/MHz) |
|---|



**<Multiple Carrier (X2 mode, Contiguous)>**

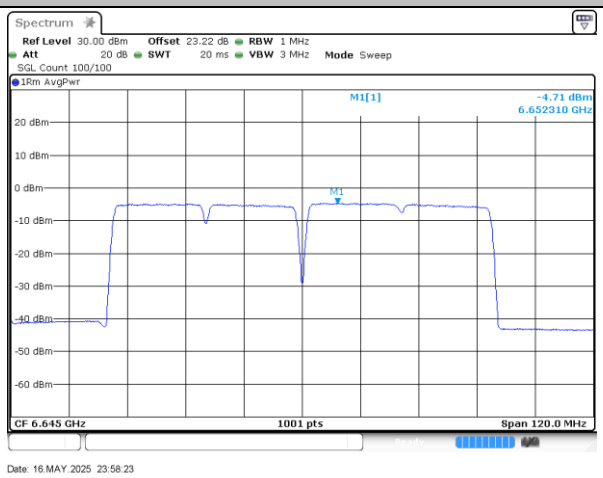
**<40MHz + 40MHz + 40MHz + 40MHz, Carrier 0+2>**

| Maximum Power Density Plot (dBm/MHz) |
|---|




**<40MHz + 40MHz + 40MHz + 40MHz, Carrier 1+3>**

| Maximum Power Density Plot (dBm/MHz) |
|---|

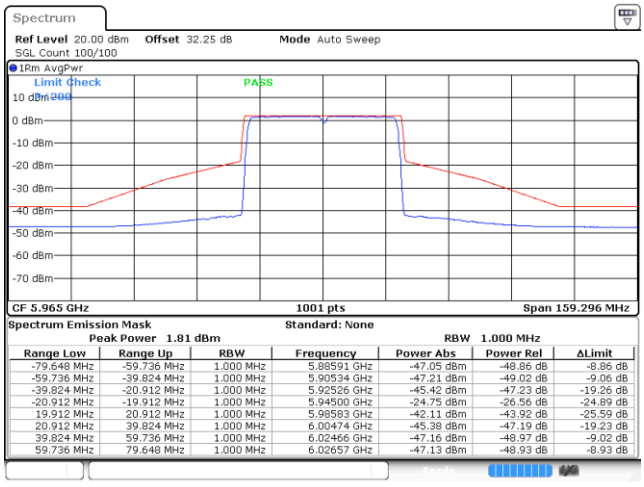


# In-Band Emissions (Channel Mask)

**<Single Carrier, X1 mode>**

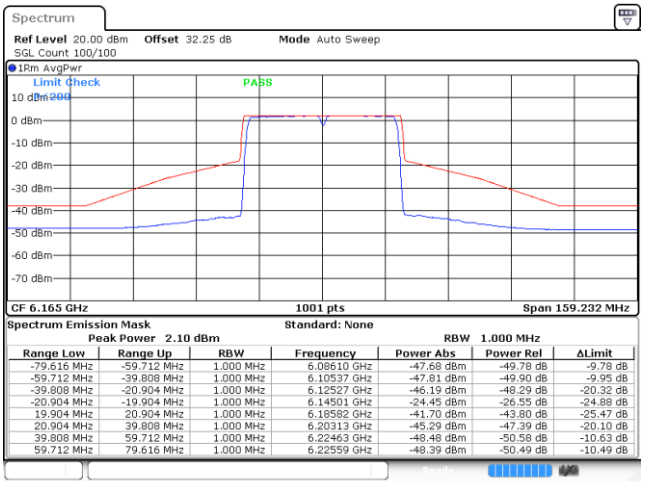
| EUT Mode | 40MHz |
|---|---|

## Plot on Channel 5965 MHz



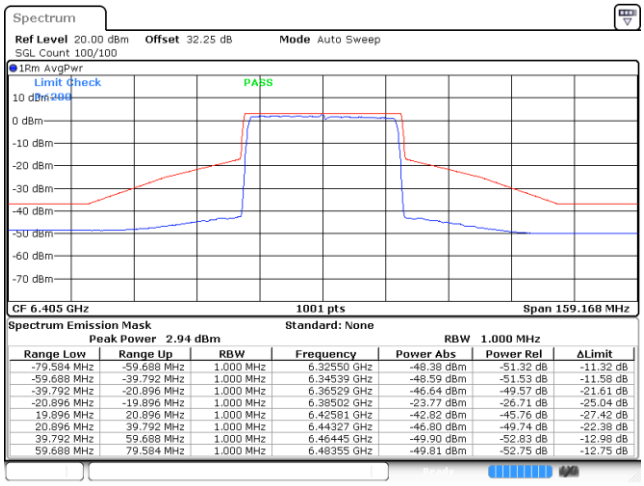

Date: 12.MAY.2025 19:27:53

## Plot on Channel 6165 MHz



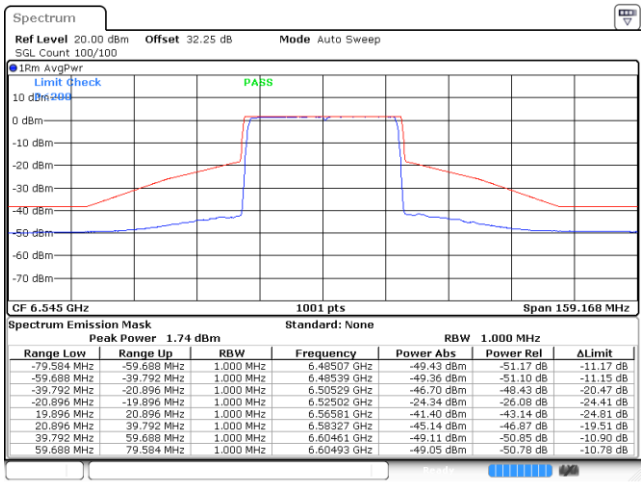

Date: 12.MAY.2025 19:32:06

## Plot on Channel 6405 MHz




Date: 12.MAY.2025 19:37:41

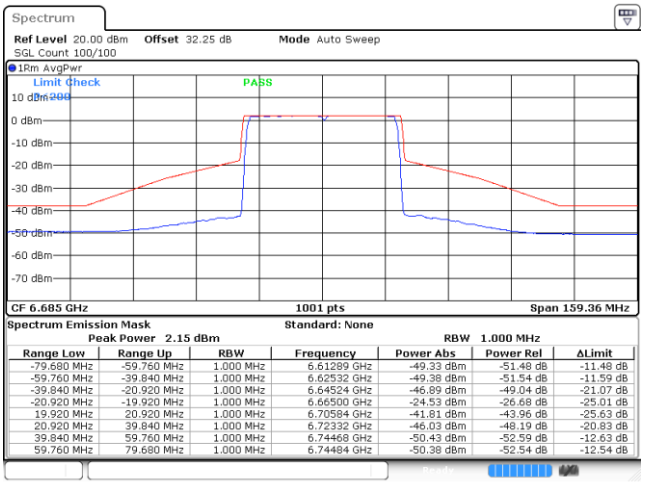
## Plot on Channel 6545 MHz




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.584 MHz | -59.688 MHz | 1.000 MHz | 6.48507 GHz | -49.43 dBm | -51.17 dB | -11.17 dB |
| -59.688 MHz | -39.792 MHz | 1.000 MHz | 6.48539 GHz | -49.36 dBm | -51.10 dB | -11.15 dB |
| -39.792 MHz | -20.896 MHz | 1.000 MHz | 6.50529 GHz | -46.70 dBm | -48.43 dB | -20.47 dB |
| -20.896 MHz | -19.896 MHz | 1.000 MHz | 6.52502 GHz | -24.34 dBm | -26.08 dB | -24.41 dB |
| 19.896 MHz | 20.896 MHz | 1.000 MHz | 6.56581 GHz | -41.40 dBm | -43.14 dB | -24.81 dB |
| 20.896 MHz | 39.792 MHz | 1.000 MHz | 6.58327 GHz | -45.14 dBm | -46.87 dB | -19.51 dB |
| 39.792 MHz | 59.688 MHz | 1.000 MHz | 6.60461 GHz | -49.11 dBm | -50.85 dB | -10.90 dB |
| 59.688 MHz | 79.584 MHz | 1.000 MHz | 6.60493 GHz | -49.05 dBm | -50.78 dB | -10.78 dB |

Date: 12.MAY.2025 20:08:43

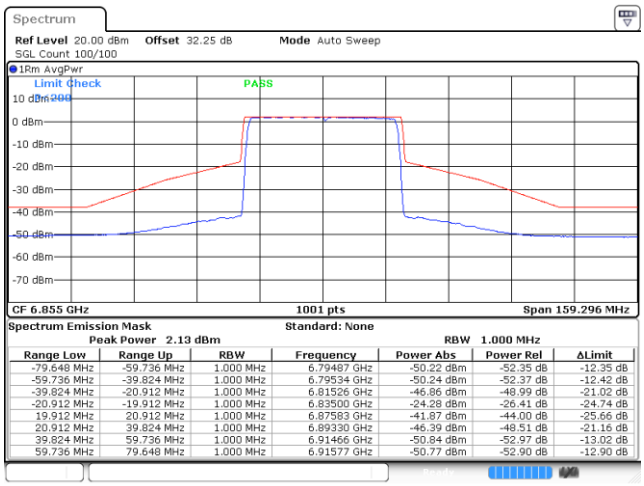
## Plot on Channel 6685 MHz




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.680 MHz | -59.760 MHz | 1.000 MHz | 6.61289 GHz | -49.33 dBm | -51.48 dB | -11.48 dB |
| -59.760 MHz | -39.840 MHz | 1.000 MHz | 6.62532 GHz | -49.38 dBm | -51.54 dB | -11.59 dB |
| -39.840 MHz | -20.920 MHz | 1.000 MHz | 6.64524 GHz | -46.89 dBm | -49.04 dB | -21.07 dB |
| -20.920 MHz | -19.920 MHz | 1.000 MHz | 6.66500 GHz | -24.53 dBm | -26.68 dB | -25.01 dB |
| 19.920 MHz | 20.920 MHz | 1.000 MHz | 6.70584 GHz | -41.81 dBm | -43.96 dB | -25.63 dB |
| 20.920 MHz | 39.840 MHz | 1.000 MHz | 6.72332 GHz | -46.03 dBm | -48.19 dB | -20.83 dB |
| 39.840 MHz | 59.760 MHz | 1.000 MHz | 6.74468 GHz | -50.43 dBm | -52.59 dB | -12.63 dB |
| 59.760 MHz | 79.680 MHz | 1.000 MHz | 6.74484 GHz | -50.38 dBm | -52.54 dB | -12.54 dB |

Date: 12.MAY.2025 20:11:30

## Plot on Channel 6855 MHz



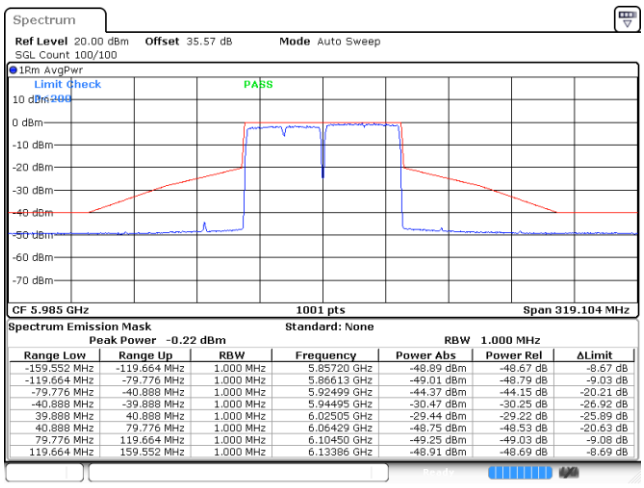

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.648 MHz | -59.736 MHz | 1.000 MHz | 6.79487 GHz | -50.22 dBm | -52.35 dB | -12.35 dB |
| -59.736 MHz | -39.824 MHz | 1.000 MHz | 6.79534 GHz | -50.24 dBm | -52.37 dB | -12.42 dB |
| -39.824 MHz | -20.912 MHz | 1.000 MHz | 6.81526 GHz | -46.86 dBm | -48.99 dB | -21.02 dB |
| -20.912 MHz | -19.912 MHz | 1.000 MHz | 6.83500 GHz | -24.28 dBm | -26.41 dB | -24.74 dB |
| 19.912 MHz | 20.912 MHz | 1.000 MHz | 6.87583 GHz | -41.87 dBm | -44.00 dB | -25.66 dB |
| 20.912 MHz | 39.824 MHz | 1.000 MHz | 6.89330 GHz | -46.39 dBm | -48.51 dB | -21.16 dB |
| 39.824 MHz | 59.736 MHz | 1.000 MHz | 6.91466 GHz | -50.84 dBm | -52.97 dB | -13.02 dB |
| 59.736 MHz | 79.648 MHz | 1.000 MHz | 6.91577 GHz | -50.77 dBm | -52.90 dB | -12.90 dB |

Date: 12.MAY.2025 20:14:25

**<Multiple Carrier, X1 mode>**

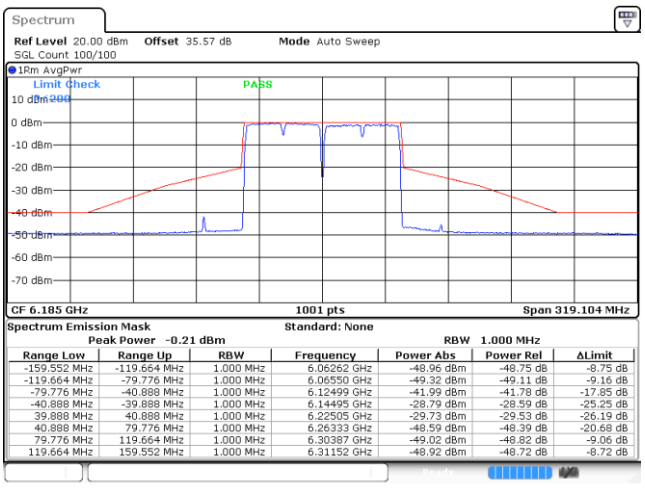
| EUT Mode | Contiguous 40MHz + 40MHz |
|---|---|

### Plot on Channel 5965 MHz + 6005 MHz



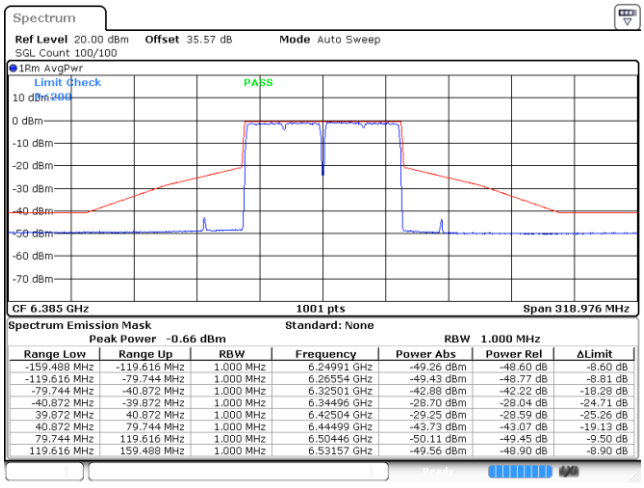

Date: 9.MAY.2025 18:57:50

### Plot on Channel 6165 MHz + 6205 MHz



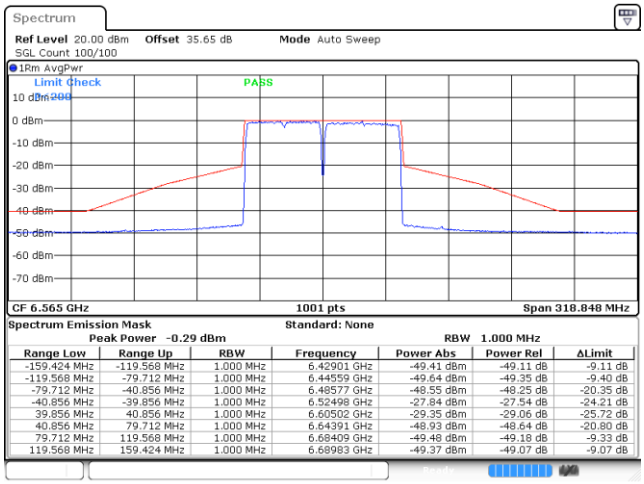

Date: 9.MAY.2025 19:16:36

### Plot on Channel 6365 MHz + 6405 MHz




Date: 9.MAY.2025 19:23:43

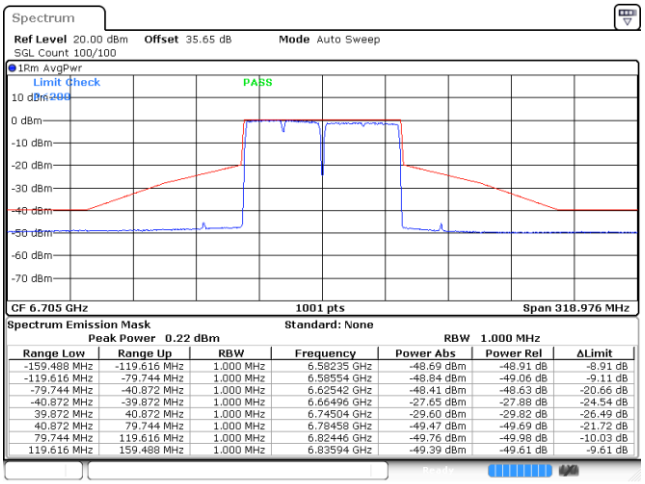
## Plot on Channel 6545 MHz + 6585 MHz




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.424 MHz | -119.568 MHz | 1.000 MHz | 6.42901 GHz | -49.41 dBm | -49.11 dB | -9.11 dB |
| -119.568 MHz | -79.712 MHz | 1.000 MHz | 6.44559 GHz | -49.64 dBm | -49.35 dB | -9.40 dB |
| -79.712 MHz | -40.856 MHz | 1.000 MHz | 6.48577 GHz | -48.55 dBm | -48.25 dB | -20.35 dB |
| -40.856 MHz | -39.856 MHz | 1.000 MHz | 6.52498 GHz | -27.84 dBm | -27.54 dB | -24.21 dB |
| 39.856 MHz | 40.856 MHz | 1.000 MHz | 6.60502 GHz | -29.35 dBm | -29.06 dB | -25.72 dB |
| 40.856 MHz | 79.712 MHz | 1.000 MHz | 6.64391 GHz | -48.93 dBm | -48.64 dB | -20.80 dB |
| 79.712 MHz | 119.568 MHz | 1.000 MHz | 6.68409 GHz | -49.48 dBm | -49.18 dB | -9.33 dB |
| 119.568 MHz | 159.424 MHz | 1.000 MHz | 6.68983 GHz | -49.37 dBm | -49.07 dB | -9.07 dB |

Date: 9.MAY.2025 20:52:04

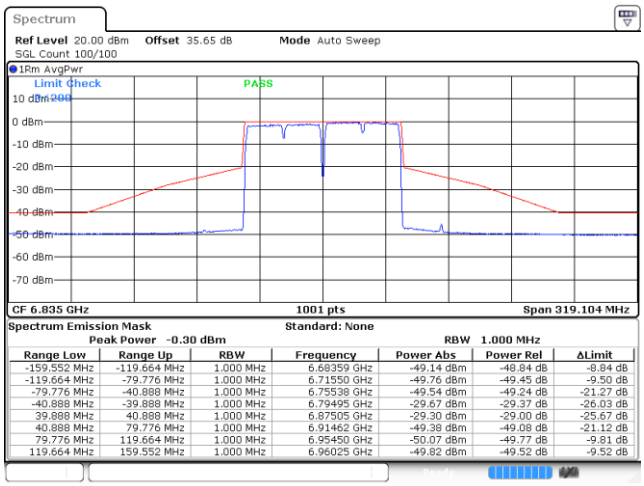
## Plot on Channel 6685 MHz + 6725 MHz




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.488 MHz | -119.616 MHz | 1.000 MHz | 6.58235 GHz | -48.69 dBm | -48.91 dB | -8.91 dB |
| -119.616 MHz | -79.744 MHz | 1.000 MHz | 6.58554 GHz | -48.84 dBm | -49.06 dB | -9.11 dB |
| -79.744 MHz | -40.872 MHz | 1.000 MHz | 6.62542 GHz | -48.41 dBm | -48.63 dB | -20.66 dB |
| -40.872 MHz | -39.872 MHz | 1.000 MHz | 6.66496 GHz | -27.65 dBm | -27.88 dB | -24.54 dB |
| 39.872 MHz | 40.872 MHz | 1.000 MHz | 6.74504 GHz | -29.60 dBm | -29.82 dB | -26.49 dB |
| 40.872 MHz | 79.744 MHz | 1.000 MHz | 6.78458 GHz | -49.47 dBm | -49.69 dB | -21.72 dB |
| 79.744 MHz | 119.616 MHz | 1.000 MHz | 6.82446 GHz | -49.76 dBm | -49.98 dB | -10.03 dB |
| 119.616 MHz | 159.488 MHz | 1.000 MHz | 6.83594 GHz | -49.39 dBm | -49.61 dB | -9.61 dB |

Date: 9.MAY.2025 20:59:18

## Plot on Channel 6815 MHz + 6855 MHz




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.552 MHz | -119.664 MHz | 1.000 MHz | 6.68359 GHz | -49.14 dBm | -48.84 dB | -8.84 dB |
| -119.664 MHz | -79.776 MHz | 1.000 MHz | 6.71550 GHz | -49.76 dBm | -49.45 dB | -9.50 dB |
| -79.776 MHz | -40.888 MHz | 1.000 MHz | 6.75538 GHz | -49.54 dBm | -49.24 dB | -21.27 dB |
| -40.888 MHz | -39.888 MHz | 1.000 MHz | 6.79495 GHz | -29.67 dBm | -29.37 dB | -26.03 dB |
| 39.888 MHz | 40.888 MHz | 1.000 MHz | 6.87505 GHz | -29.30 dBm | -29.00 dB | -25.67 dB |
| 40.888 MHz | 79.776 MHz | 1.000 MHz | 6.91462 GHz | -49.38 dBm | -49.08 dB | -21.12 dB |
| 79.776 MHz | 119.664 MHz | 1.000 MHz | 6.95450 GHz | -50.07 dBm | -49.77 dB | -9.81 dB |
| 119.664 MHz | 159.552 MHz | 1.000 MHz | 6.96025 GHz | -49.82 dBm | -49.52 dB | -9.52 dB |

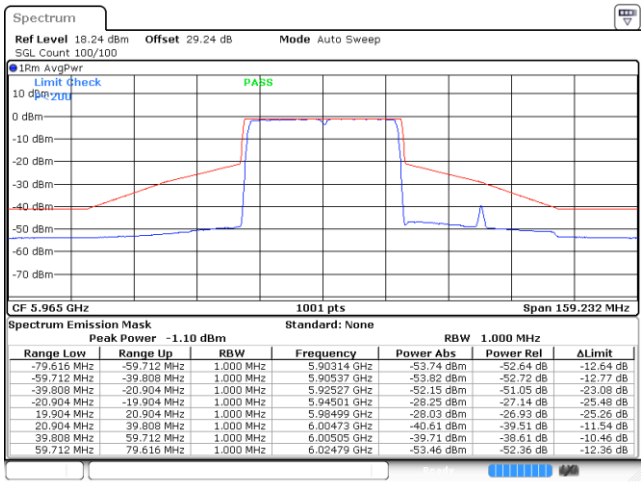
Date: 9.MAY.2025 21:04:44

**<Multiple Carrier, X2 mode>**

| EUT Mode | Contiguous 40MHz + 40MHz |
|---|---|

**<Carrier 2>**

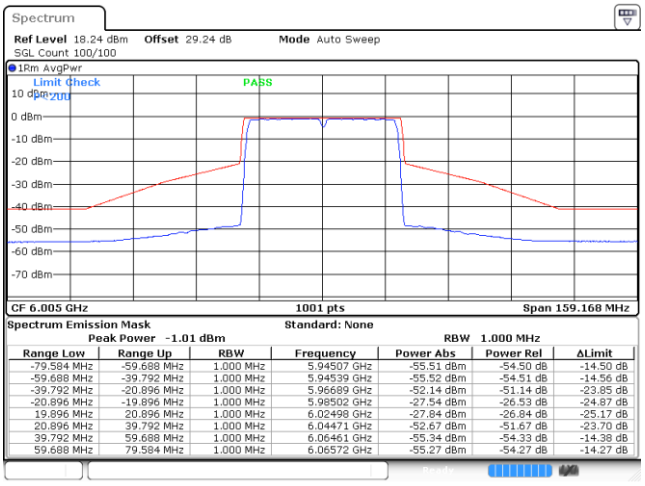
**Plot on Channel 5965 MHz**




Date: 27.MAY.2025 22:48:30

**<Carrier 3>**

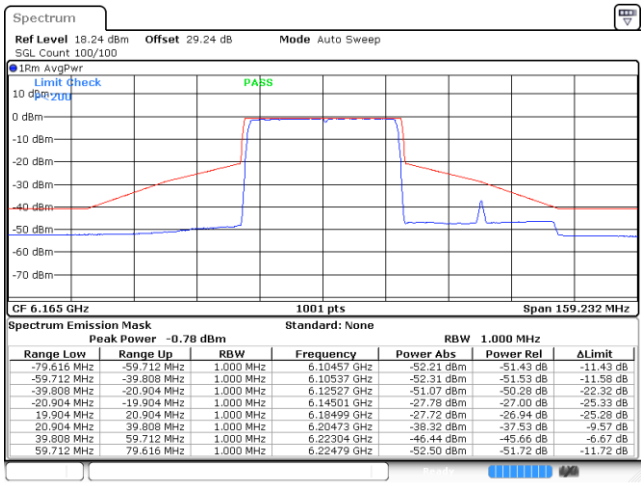
**Plot on Channel 6005 MHz**




Date: 27.MAY.2025 22:43:28

**<Carrier 2>**

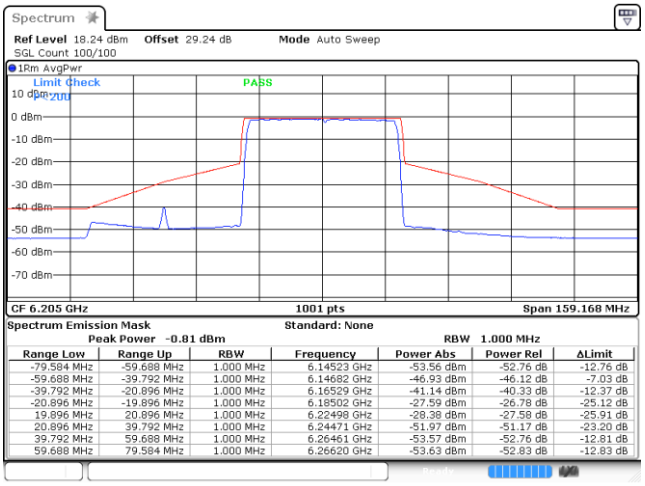
**Plot on Channel 6165 MHz**




Date: 27.MAY.2025 22:52:19

**<Carrier 3>**

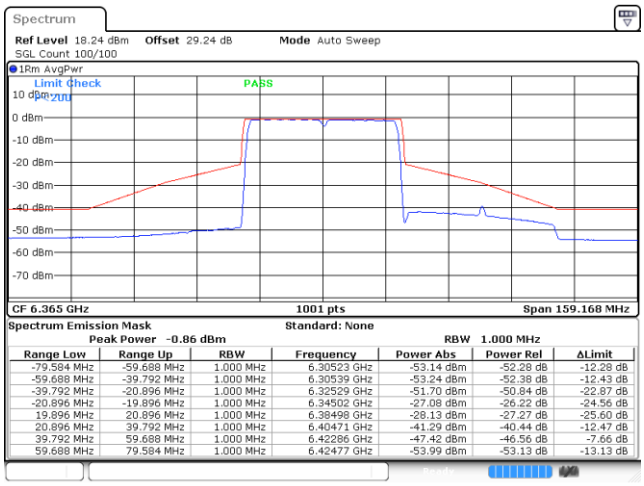
**Plot on Channel 6205 MHz**




Date: 27.MAY.2025 22:55:41

**<Carrier 2>**

**Plot on Channel 6365 MHz**

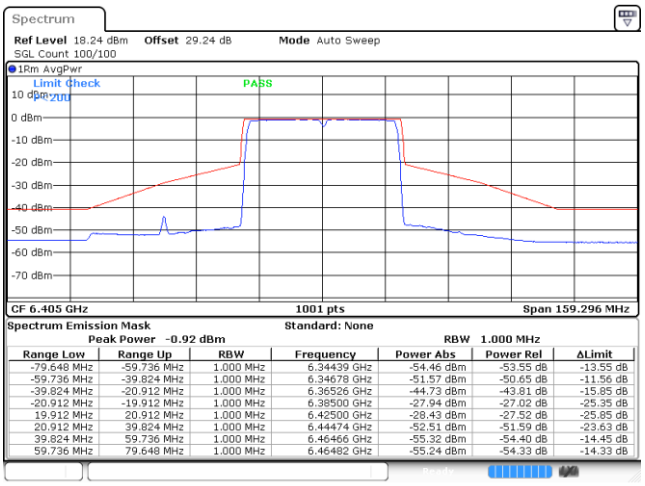



| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.584 MHz | -59.688 MHz | 1.000 MHz | 6.30523 GHz | -53.14 dBm | -52.28 dB | -12.28 dB |
| -59.688 MHz | -39.792 MHz | 1.000 MHz | 6.30539 GHz | -53.24 dBm | -52.38 dB | -12.43 dB |
| -39.792 MHz | -20.896 MHz | 1.000 MHz | 6.32529 GHz | -51.70 dBm | -50.84 dB | -22.87 dB |
| -20.896 MHz | -19.896 MHz | 1.000 MHz | 6.34502 GHz | -27.08 dBm | -26.22 dB | -24.56 dB |
| 19.896 MHz | 20.896 MHz | 1.000 MHz | 6.38498 GHz | -28.13 dBm | -27.27 dB | -25.60 dB |
| 20.896 MHz | 39.792 MHz | 1.000 MHz | 6.40471 GHz | -41.29 dBm | -40.44 dB | -12.47 dB |
| 39.792 MHz | 59.688 MHz | 1.000 MHz | 6.42286 GHz | -47.42 dBm | -46.56 dB | -7.66 dB |
| 59.688 MHz | 79.584 MHz | 1.000 MHz | 6.42477 GHz | -53.99 dBm | -53.13 dB | -13.13 dB |

Date: 27.MAY.2025 22:59:53

**<Carrier 3>**

**Plot on Channel 6405 MHz**

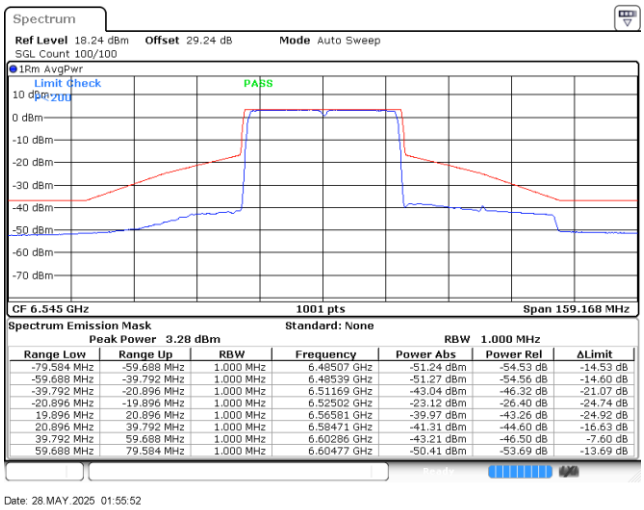



| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.648 MHz | -59.736 MHz | 1.000 MHz | 6.34439 GHz | -54.46 dBm | -53.55 dB | -13.55 dB |
| -59.736 MHz | -39.824 MHz | 1.000 MHz | 6.34678 GHz | -51.57 dBm | -50.65 dB | -11.56 dB |
| -39.824 MHz | -20.912 MHz | 1.000 MHz | 6.36526 GHz | -44.73 dBm | -43.81 dB | -15.85 dB |
| -20.912 MHz | -19.912 MHz | 1.000 MHz | 6.38500 GHz | -27.94 dBm | -27.02 dB | -25.35 dB |
| 19.912 MHz | 20.912 MHz | 1.000 MHz | 6.42500 GHz | -28.43 dBm | -27.52 dB | -25.85 dB |
| 20.912 MHz | 39.824 MHz | 1.000 MHz | 6.44474 GHz | -52.51 dBm | -51.59 dB | -23.63 dB |
| 39.824 MHz | 59.736 MHz | 1.000 MHz | 6.46466 GHz | -55.32 dBm | -54.40 dB | -14.45 dB |
| 59.736 MHz | 79.648 MHz | 1.000 MHz | 6.46482 GHz | -55.24 dBm | -54.33 dB | -14.33 dB |

Date: 27.MAY.2025 22:58:28

**<Carrier 2>**

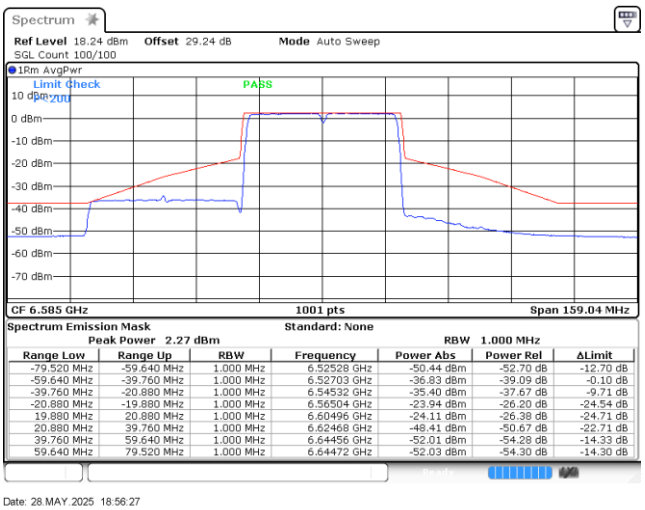
**Plot on Channel 6545 MHz**




Date: 28.MAY.2025 01:55:52

**<Carrier 3>**

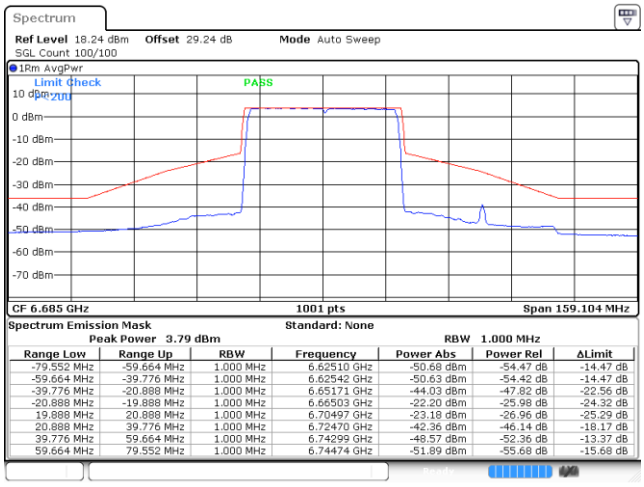
**Plot on Channel 6585 MHz**




Date: 28.MAY.2025 18:56:27

**<Carrier 2>**

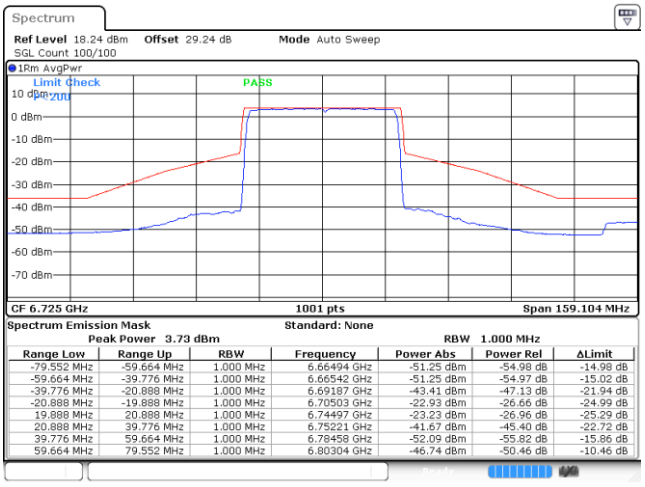
**Plot on Channel 6685 MHz**




Date: 28.MAY.2025 01:57:31

**<Carrier 3>**

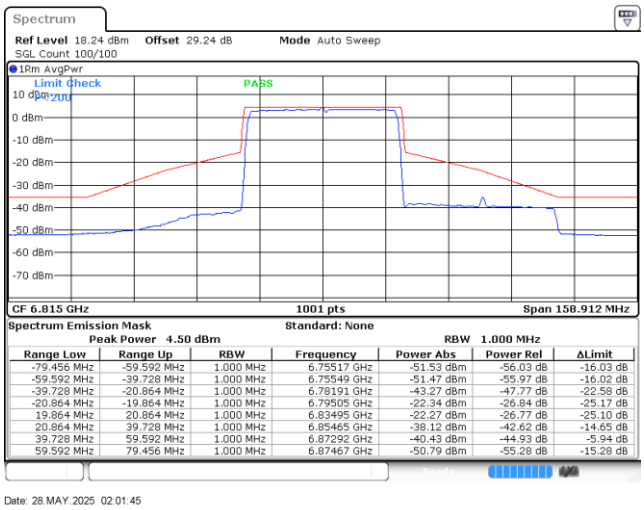
**Plot on Channel 6725 MHz**




Date: 28.MAY.2025 01:59:15

**<Carrier 2>**

**Plot on Channel 6815 MHz**

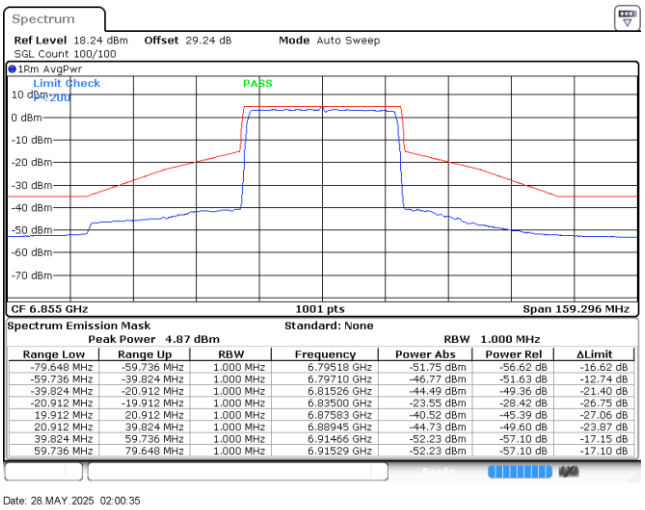



| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.456 MHz | -59.592 MHz | 1.000 MHz | 6.75517 GHz | -51.53 dBm | -56.03 dB | -16.03 dB |
| -59.592 MHz | -39.728 MHz | 1.000 MHz | 6.75549 GHz | -51.47 dBm | -55.97 dB | -16.02 dB |
| -39.728 MHz | -20.864 MHz | 1.000 MHz | 6.78191 GHz | -43.27 dBm | -47.77 dB | -22.58 dB |
| -20.864 MHz | -19.864 MHz | 1.000 MHz | 6.79505 GHz | -22.34 dBm | -26.84 dB | -25.17 dB |
| 19.864 MHz | 20.864 MHz | 1.000 MHz | 6.83495 GHz | -22.27 dBm | -26.77 dB | -25.10 dB |
| 20.864 MHz | 39.728 MHz | 1.000 MHz | 6.85465 GHz | -38.12 dBm | -42.62 dB | -14.65 dB |
| 39.728 MHz | 59.592 MHz | 1.000 MHz | 6.87292 GHz | -40.43 dBm | -44.93 dB | -5.94 dB |
| 59.592 MHz | 79.456 MHz | 1.000 MHz | 6.87467 GHz | -50.79 dBm | -55.28 dB | -15.28 dB |

Date: 28.MAY.2025 02:01:45

**<Carrier 3>**

**Plot on Channel 6855 MHz**




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.648 MHz | -59.736 MHz | 1.000 MHz | 6.79518 GHz | -51.75 dBm | -56.62 dB | -16.62 dB |
| -59.736 MHz | -39.824 MHz | 1.000 MHz | 6.79710 GHz | -46.77 dBm | -51.63 dB | -12.74 dB |
| -39.824 MHz | -20.912 MHz | 1.000 MHz | 6.81526 GHz | -44.49 dBm | -49.36 dB | -21.40 dB |
| -20.912 MHz | -19.912 MHz | 1.000 MHz | 6.83500 GHz | -23.55 dBm | -28.42 dB | -26.75 dB |
| 19.912 MHz | 20.912 MHz | 1.000 MHz | 6.87583 GHz | -40.52 dBm | -45.39 dB | -27.06 dB |
| 20.912 MHz | 39.824 MHz | 1.000 MHz | 6.88945 GHz | -44.73 dBm | -49.60 dB | -23.87 dB |
| 39.824 MHz | 59.736 MHz | 1.000 MHz | 6.91466 GHz | -52.23 dBm | -57.10 dB | -17.15 dB |
| 59.736 MHz | 79.648 MHz | 1.000 MHz | 6.91529 GHz | -52.23 dBm | -57.10 dB | -17.10 dB |

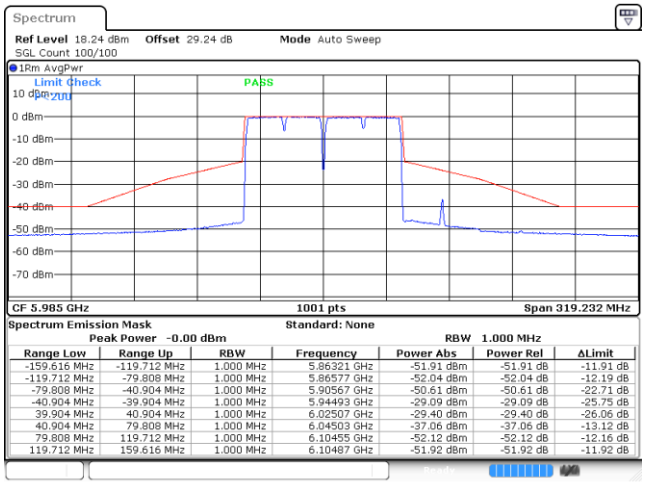
Date: 28.MAY.2025 02:00:35

**<Multiple Carrier, X2 mode>**

| EUT Mode | Contiguous 40MHz + 40MHz + 40MHz |
|---|---|

**<Carrier 0+2>**

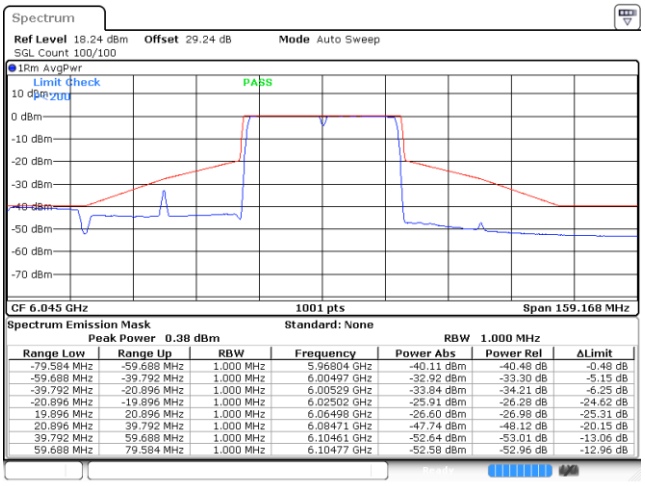
**Plot on Channel 5965 MHz + 6005 MHz**




Date: 30.MAY.2025 18:43:03

**<Carrier 1>**

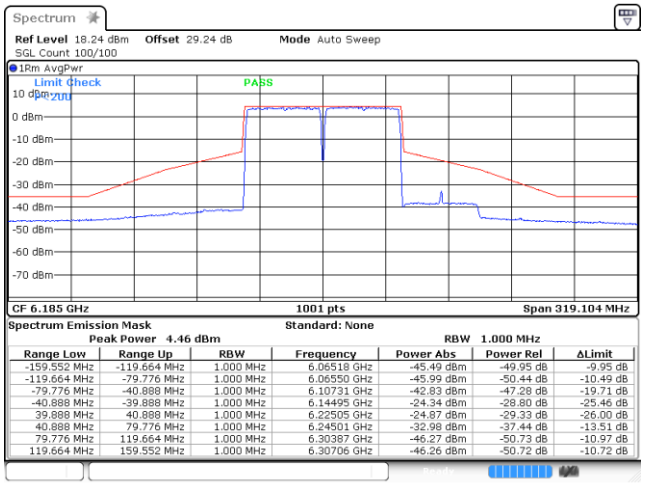
**Plot on Channel 6045 MHz**




Date: 30.MAY.2025 18:48:42

**<Carrier 0+2>**

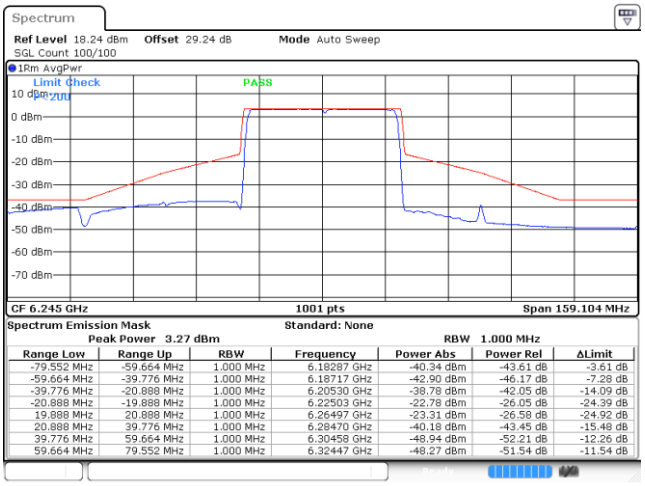
**Plot on Channel 6165 MHz + 6205 MHz**




Date: 27.MAY.2025 23:39:06

**<Carrier 1>**

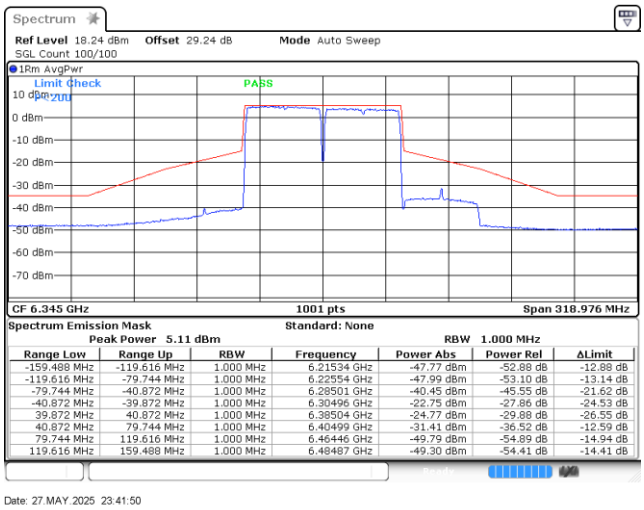
**Plot on Channel 6245 MHz**




Date: 27.MAY.2025 23:34:31

**<Carrier 0+2>**

**Plot on Channel 6325 MHz + 6365 MHz**

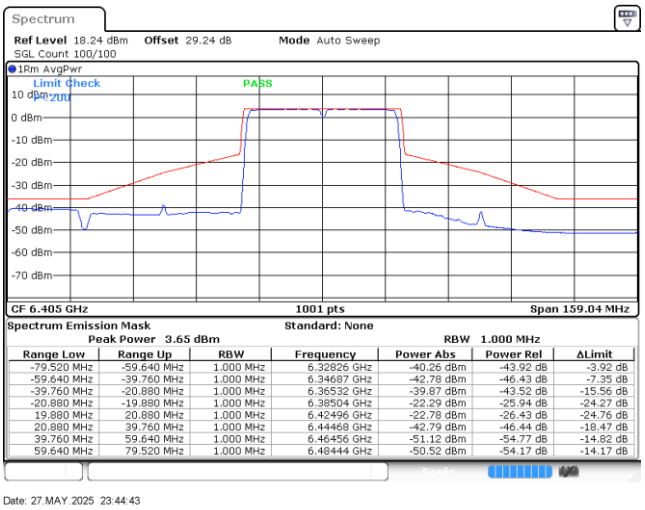



| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.488 MHz | -119.616 MHz | 1.000 MHz | 6.21534 GHz | -47.77 dBm | -52.88 dB | -12.88 dB |
| -119.616 MHz | -79.744 MHz | 1.000 MHz | 6.22554 GHz | -47.99 dBm | -53.10 dB | -13.14 dB |
| -79.744 MHz | -40.872 MHz | 1.000 MHz | 6.28501 GHz | -40.45 dBm | -45.55 dB | -21.62 dB |
| -40.872 MHz | -39.872 MHz | 1.000 MHz | 6.30496 GHz | -22.75 dBm | -27.86 dB | -24.53 dB |
| 39.872 MHz | 40.872 MHz | 1.000 MHz | 6.38504 GHz | -24.77 dBm | -29.88 dB | -26.55 dB |
| 40.872 MHz | 79.744 MHz | 1.000 MHz | 6.40499 GHz | -31.41 dBm | -36.52 dB | -12.59 dB |
| 79.744 MHz | 119.616 MHz | 1.000 MHz | 6.46446 GHz | -49.79 dBm | -54.89 dB | -14.94 dB |
| 119.616 MHz | 159.488 MHz | 1.000 MHz | 6.48487 GHz | -49.30 dBm | -54.41 dB | -14.41 dB |

Date: 27.MAY.2025 23:41:50

**<Carrier 1>**

**Plot on Channel 6405 MHz**

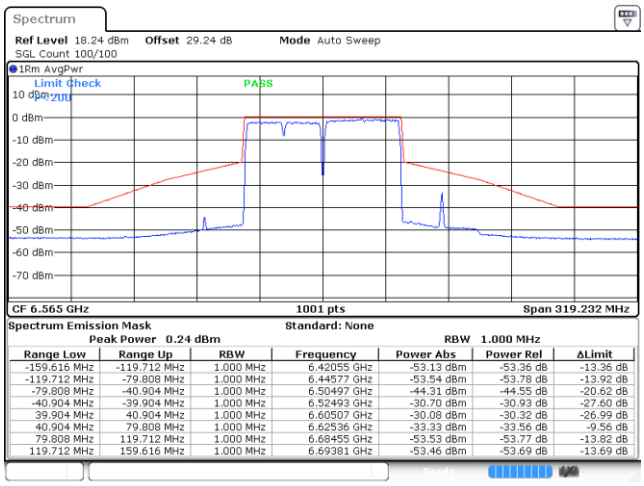



| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.520 MHz | -59.640 MHz | 1.000 MHz | 6.32826 GHz | -40.26 dBm | -43.92 dB | -3.92 dB |
| -59.640 MHz | -39.760 MHz | 1.000 MHz | 6.34687 GHz | -42.78 dBm | -46.43 dB | -7.35 dB |
| -39.760 MHz | -20.880 MHz | 1.000 MHz | 6.36532 GHz | -39.87 dBm | -43.52 dB | -15.56 dB |
| -20.880 MHz | -19.880 MHz | 1.000 MHz | 6.38504 GHz | -22.29 dBm | -25.94 dB | -24.27 dB |
| 19.880 MHz | 20.880 MHz | 1.000 MHz | 6.42496 GHz | -22.78 dBm | -26.43 dB | -24.76 dB |
| 20.880 MHz | 39.760 MHz | 1.000 MHz | 6.44468 GHz | -42.79 dBm | -46.44 dB | -18.47 dB |
| 39.760 MHz | 59.640 MHz | 1.000 MHz | 6.46456 GHz | -51.12 dBm | -54.77 dB | -14.82 dB |
| 59.640 MHz | 79.520 MHz | 1.000 MHz | 6.48444 GHz | -50.52 dBm | -54.17 dB | -14.17 dB |

Date: 27.MAY.2025 23:44:43

**<Carrier 0+2>**

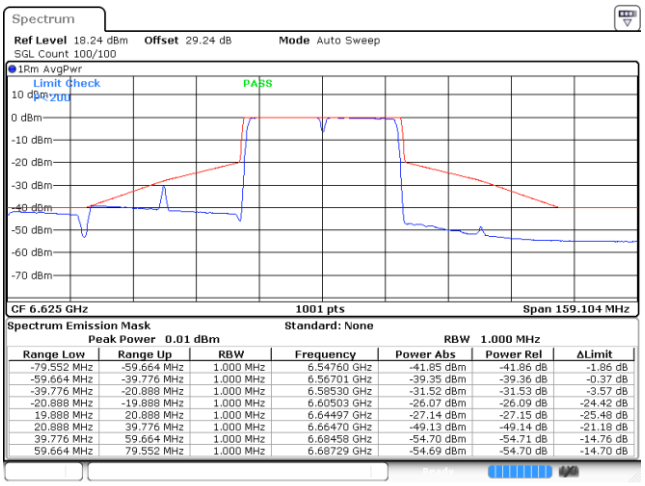
**Plot on Channel 6545 MHz + 6585 MHz**




Date: 28.MAY.2025 02:09:54

**<Carrier 1>**

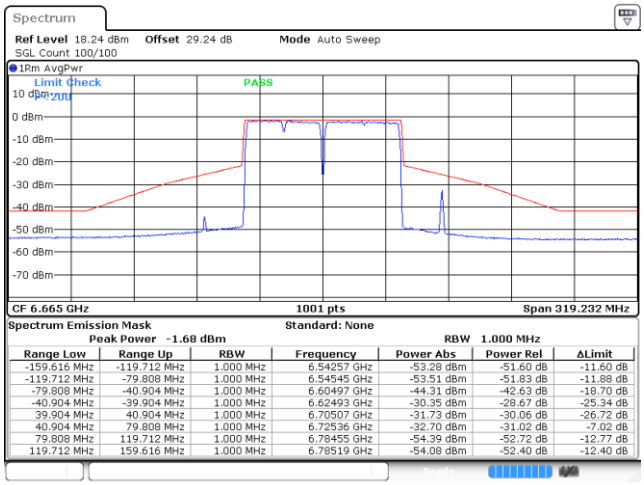
**Plot on Channel 6625 MHz**




Date: 28.MAY.2025 02:12:18

**<Carrier 0+2>**

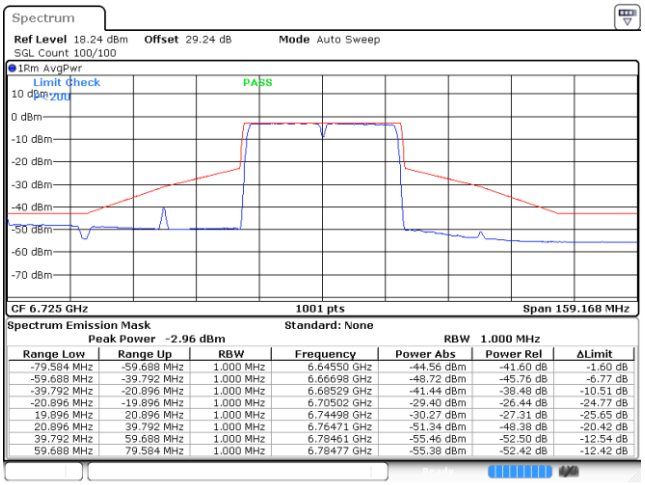
**Plot on Channel 6645 MHz + 6685 MHz**




Date: 28.MAY.2025 02:16:08

**<Carrier 1>**

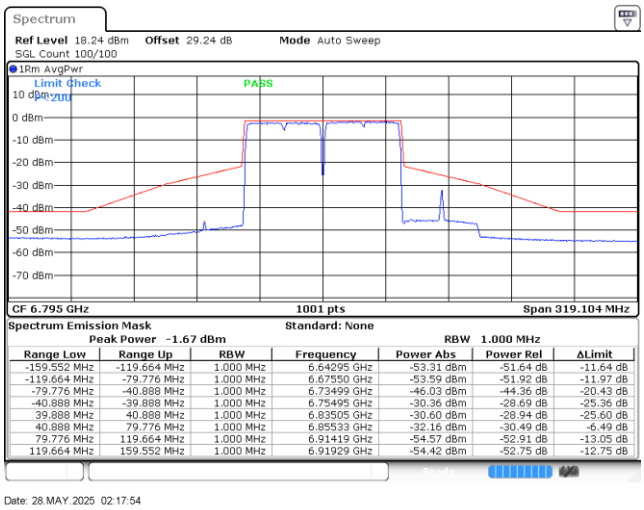
**Plot on Channel 6725 MHz**




Date: 28.MAY.2025 02:14:37

**<Carrier 0+2>**

**Plot on Channel 6775 MHz + 6815 MHz**




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.552 MHz | -119.664 MHz | 1.000 MHz | 6.64295 GHz | -53.31 dBm | -51.64 dB | -11.64 dB |
| -119.664 MHz | -79.776 MHz | 1.000 MHz | 6.67550 GHz | -53.59 dBm | -51.92 dB | -11.97 dB |
| -79.776 MHz | -40.888 MHz | 1.000 MHz | 6.73499 GHz | -46.03 dBm | -44.36 dB | -20.43 dB |
| -40.888 MHz | -39.888 MHz | 1.000 MHz | 6.75495 GHz | -30.36 dBm | -28.69 dB | -25.36 dB |
| 39.888 MHz | 40.888 MHz | 1.000 MHz | 6.83505 GHz | -30.60 dBm | -28.94 dB | -25.60 dB |
| 40.888 MHz | 79.776 MHz | 1.000 MHz | 6.85533 GHz | -32.16 dBm | -30.49 dB | -6.49 dB |
| 79.776 MHz | 119.664 MHz | 1.000 MHz | 6.91419 GHz | -54.57 dBm | -52.91 dB | -13.05 dB |
| 119.664 MHz | 159.552 MHz | 1.000 MHz | 6.91929 GHz | -54.42 dBm | -52.75 dB | -12.75 dB |

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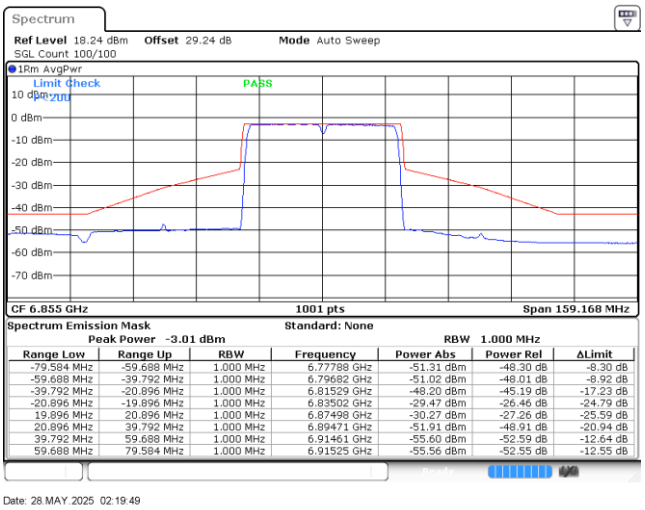
**<Carrier 1>**

**Plot on Channel 6855 MHz**




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -79.584 MHz | -59.688 MHz | 1.000 MHz | 6.77788 GHz | -51.31 dBm | -48.30 dB | -8.30 dB |
| -59.688 MHz | -39.792 MHz | 1.000 MHz | 6.79682 GHz | -51.02 dBm | -48.01 dB | -8.92 dB |
| -39.792 MHz | -20.896 MHz | 1.000 MHz | 6.81529 GHz | -48.20 dBm | -45.19 dB | -17.23 dB |
| -20.896 MHz | -19.896 MHz | 1.000 MHz | 6.83502 GHz | -29.47 dBm | -26.46 dB | -24.79 dB |
| 19.896 MHz | 20.896 MHz | 1.000 MHz | 6.87498 GHz | -30.27 dBm | -27.26 dB | -25.59 dB |
| 20.896 MHz | 39.792 MHz | 1.000 MHz | 6.89471 GHz | -51.91 dBm | -48.91 dB | -20.94 dB |
| 39.792 MHz | 59.688 MHz | 1.000 MHz | 6.91461 GHz | -55.60 dBm | -52.59 dB | -12.64 dB |
| 59.688 MHz | 79.584 MHz | 1.000 MHz | 6.91525 GHz | -55.56 dBm | -52.55 dB | -12.55 dB |

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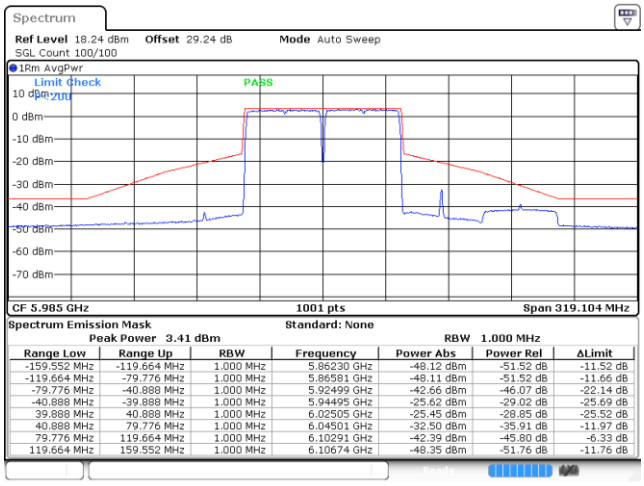
**<Multiple Carrier, X2 mode>**

| EUT Mode | Contiguous 40MHz + 40MHz + 40MHz + 40MHz |
|---|---|

**<Carrier 0+2>**

**Plot on Channel 5965 MHz + 6005 MHz**

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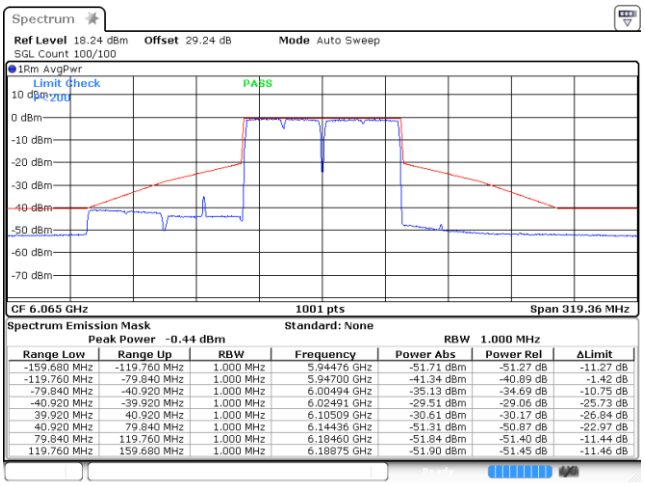
**<Carrier 1+3>**

**Plot on Channel 6045 MHz + 6085 MHz**

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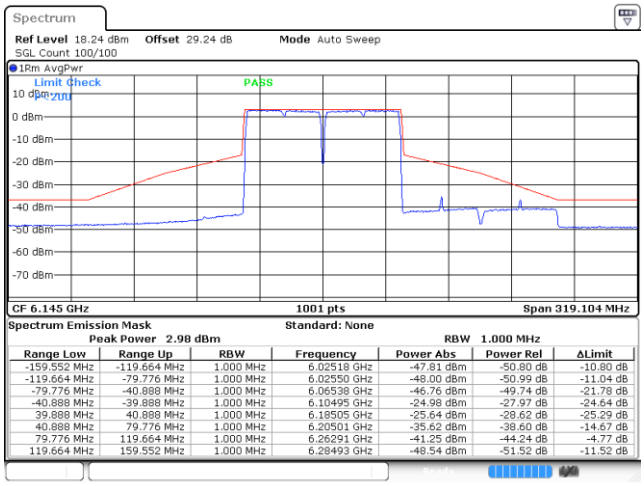
**<Carrier 0+2>**

**Plot on Channel 6125 MHz + 6165 MHz**

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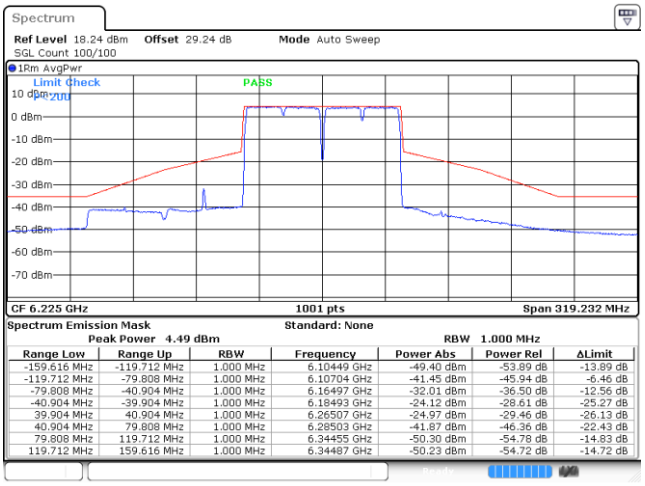
**<Carrier 1+3>**

**Plot on Channel 6205 MHz + 6245 MHz**

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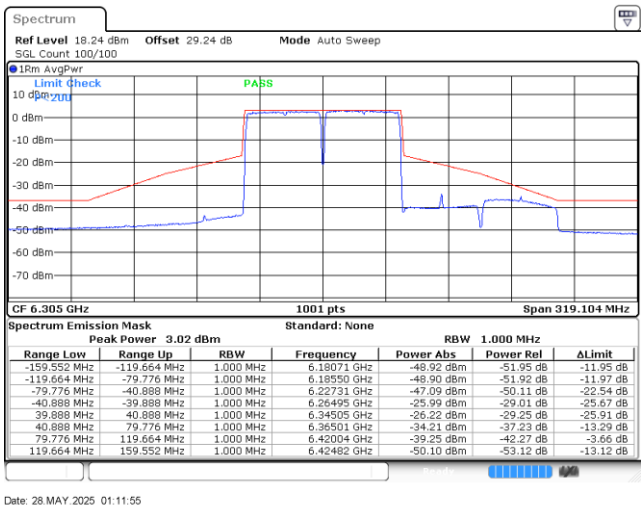
**<Carrier 0+2>**

**Plot on Channel 6285 MHz + 6325 MHz**




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.552 MHz | -119.664 MHz | 1.000 MHz | 6.18071 GHz | -48.92 dBm | -51.95 dB | -11.95 dB |
| -119.664 MHz | -79.776 MHz | 1.000 MHz | 6.18550 GHz | -48.90 dBm | -51.92 dB | -11.97 dB |
| -79.776 MHz | -40.888 MHz | 1.000 MHz | 6.22731 GHz | -47.09 dBm | -50.11 dB | -22.54 dB |
| -40.888 MHz | -39.888 MHz | 1.000 MHz | 6.26495 GHz | -25.99 dBm | -29.01 dB | -25.67 dB |
| 39.888 MHz | 40.888 MHz | 1.000 MHz | 6.34505 GHz | -26.22 dBm | -29.25 dB | -25.91 dB |
| 40.888 MHz | 79.776 MHz | 1.000 MHz | 6.36501 GHz | -34.21 dBm | -37.23 dB | -13.29 dB |
| 79.776 MHz | 119.664 MHz | 1.000 MHz | 6.42004 GHz | -39.25 dBm | -42.27 dB | -3.66 dB |
| 119.664 MHz | 159.552 MHz | 1.000 MHz | 6.42482 GHz | -50.10 dBm | -53.12 dB | -13.12 dB |

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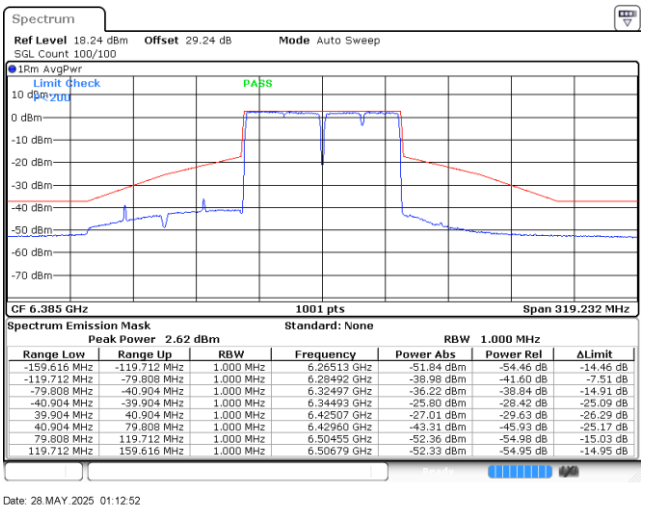
**<Carrier 1+3>**

**Plot on Channel 6365 MHz + 6405 MHz**




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -159.616 MHz | -119.712 MHz | 1.000 MHz | 6.26513 GHz | -51.84 dBm | -54.46 dB | -14.46 dB |
| -119.712 MHz | -79.808 MHz | 1.000 MHz | 6.28492 GHz | -38.98 dBm | -41.60 dB | -7.51 dB |
| -79.808 MHz | -40.904 MHz | 1.000 MHz | 6.32497 GHz | -36.22 dBm | -38.84 dB | -14.91 dB |
| -40.904 MHz | -39.904 MHz | 1.000 MHz | 6.34493 GHz | -25.80 dBm | -28.42 dB | -25.09 dB |
| 39.904 MHz | 40.904 MHz | 1.000 MHz | 6.42507 GHz | -27.01 dBm | -29.63 dB | -26.29 dB |
| 40.904 MHz | 79.808 MHz | 1.000 MHz | 6.42960 GHz | -43.31 dBm | -45.93 dB | -25.17 dB |
| 79.808 MHz | 119.712 MHz | 1.000 MHz | 6.50455 GHz | -52.36 dBm | -54.98 dB | -15.03 dB |
| 119.712 MHz | 159.616 MHz | 1.000 MHz | 6.50679 GHz | -52.33 dBm | -54.95 dB | -14.95 dB |

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