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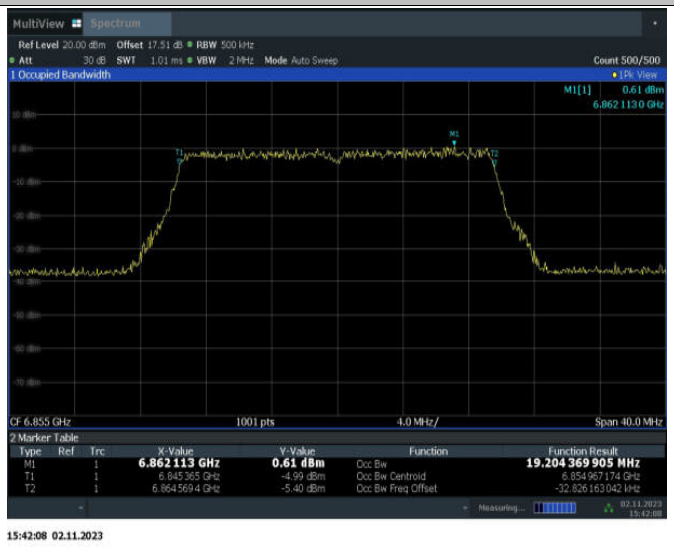

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11BE20MIMO_Ant15_6875

11BE20MIMO_Ant9_6895

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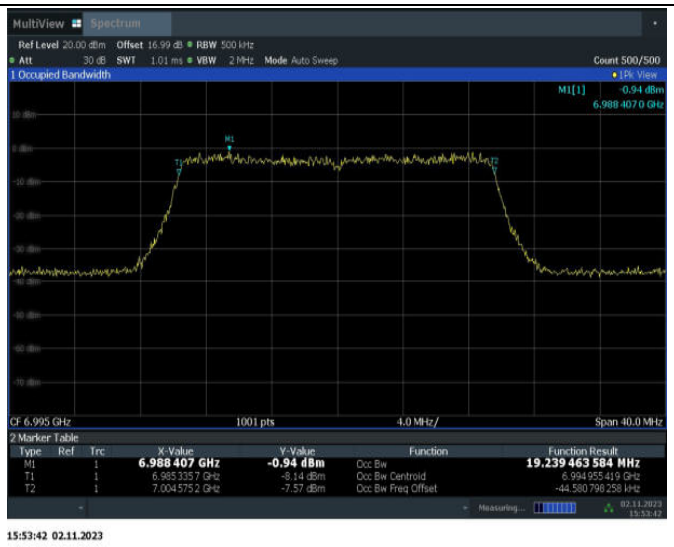

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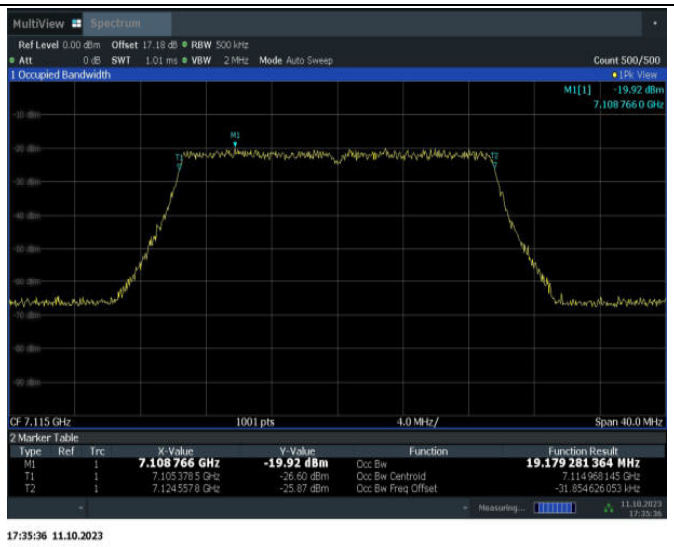

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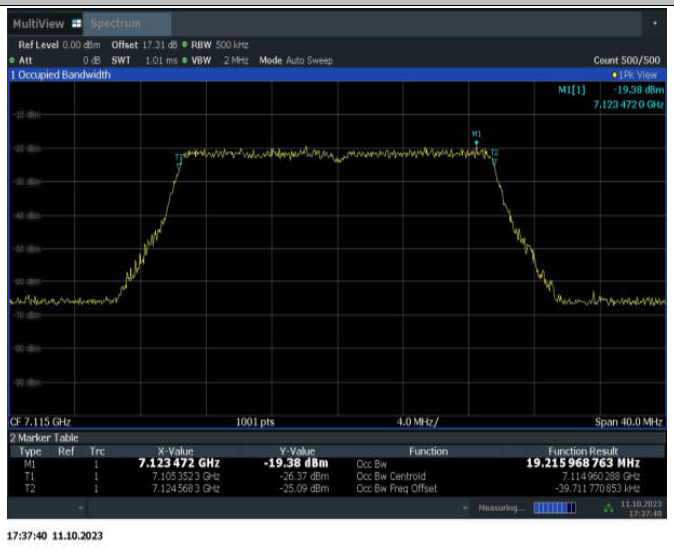

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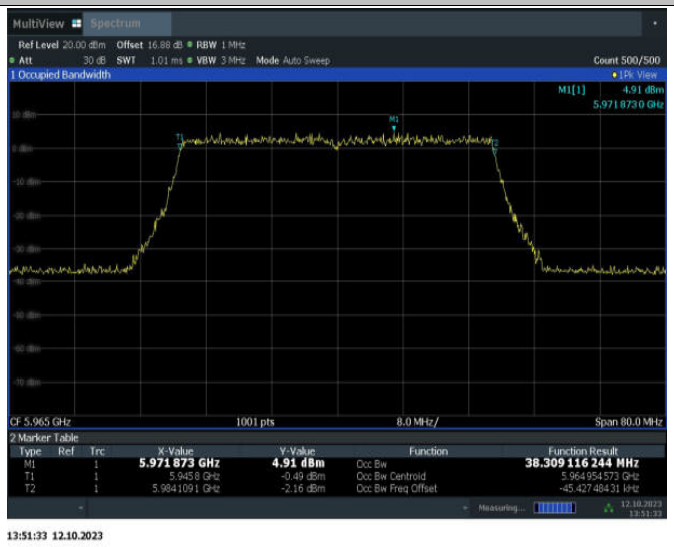

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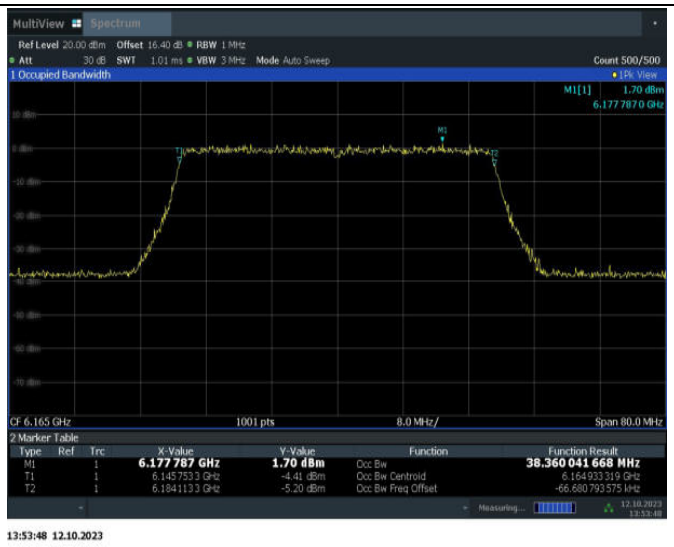

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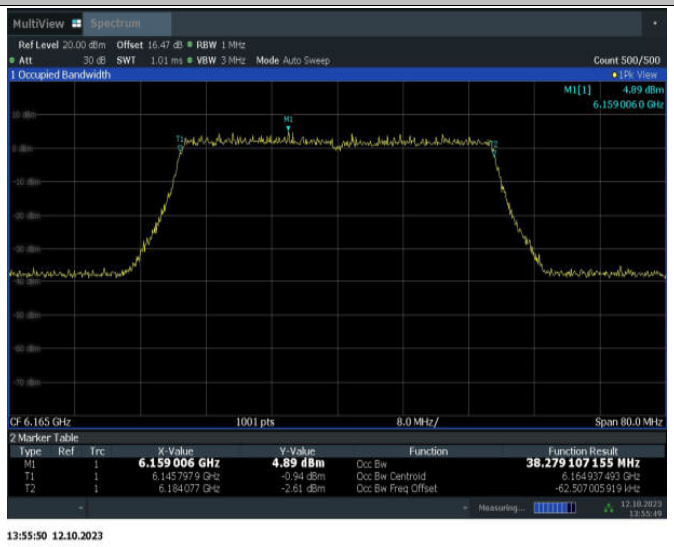

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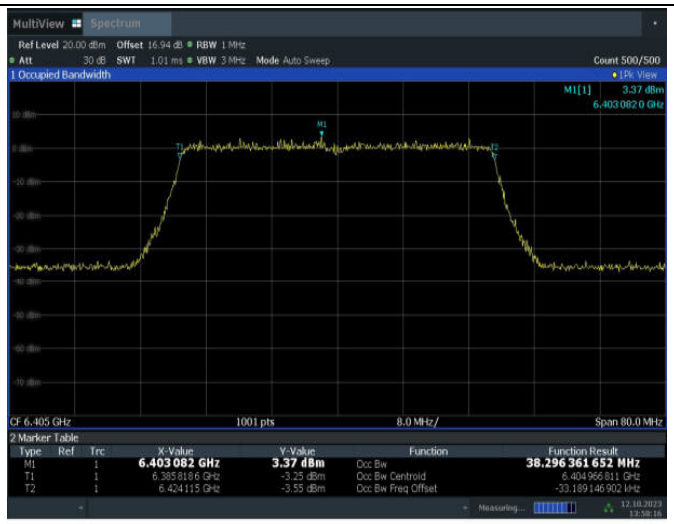

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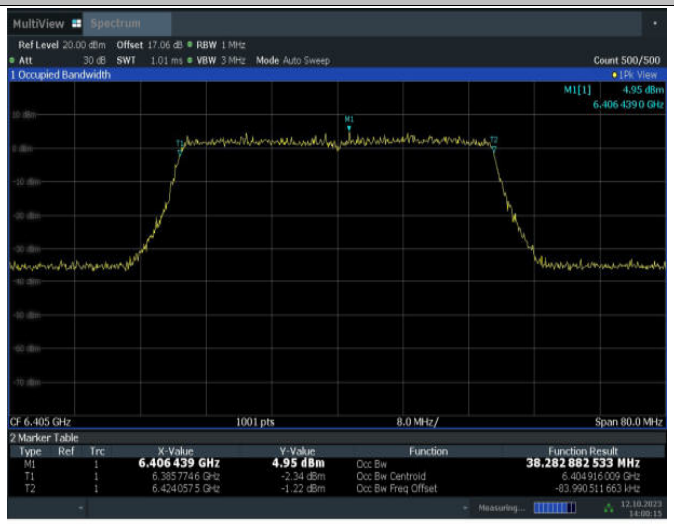

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11BE40MIMO_Ant15_6445

11BE40MIMO_Ant9_6485

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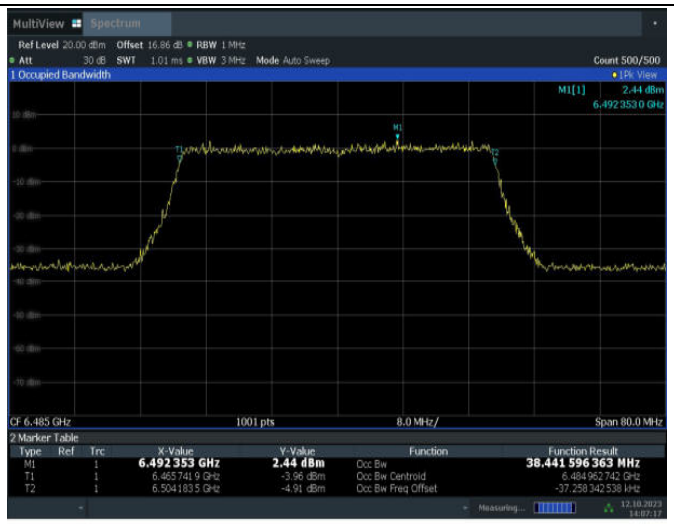

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11BE40MIMO_Ant9_6525

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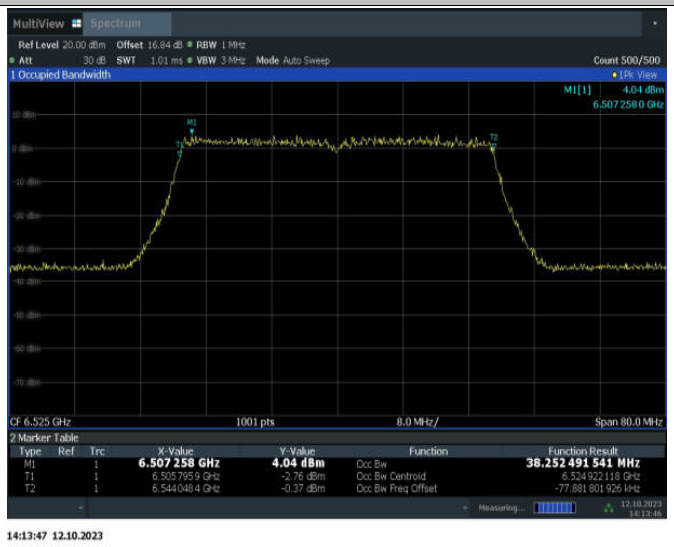

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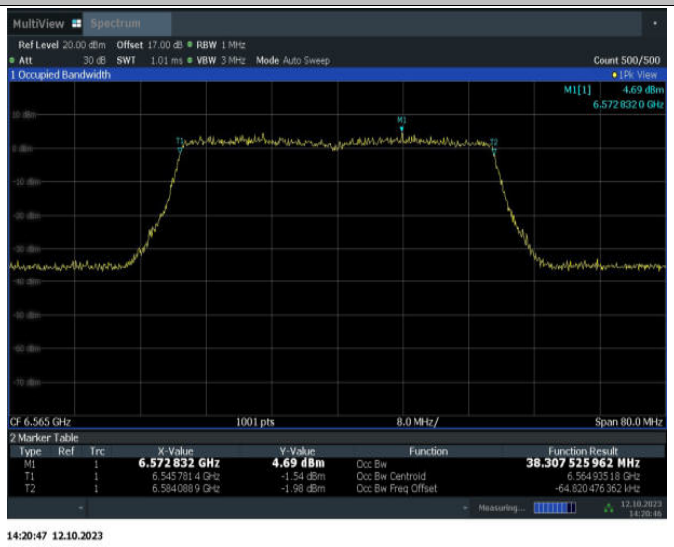

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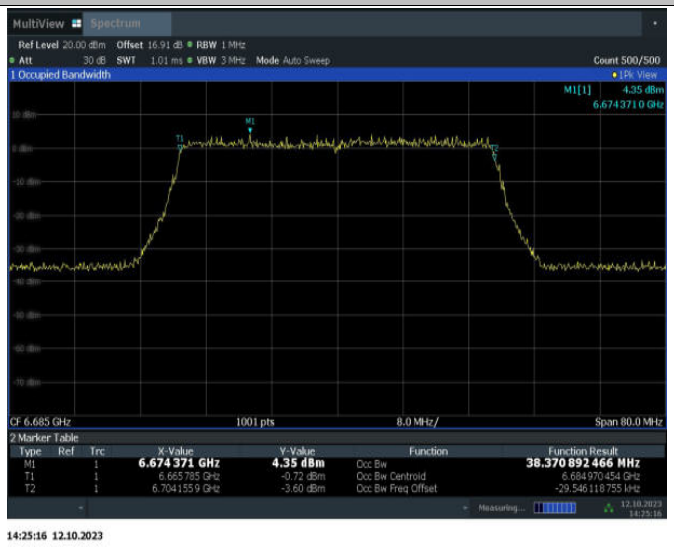

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11BE40MIMO_Ant9_6885

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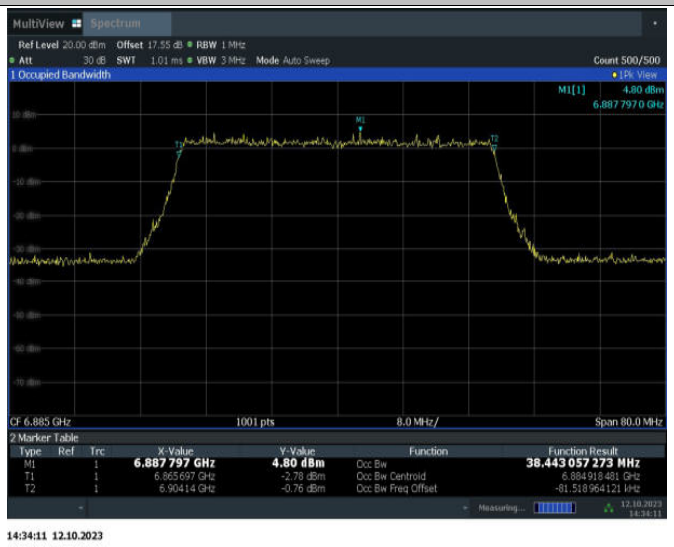

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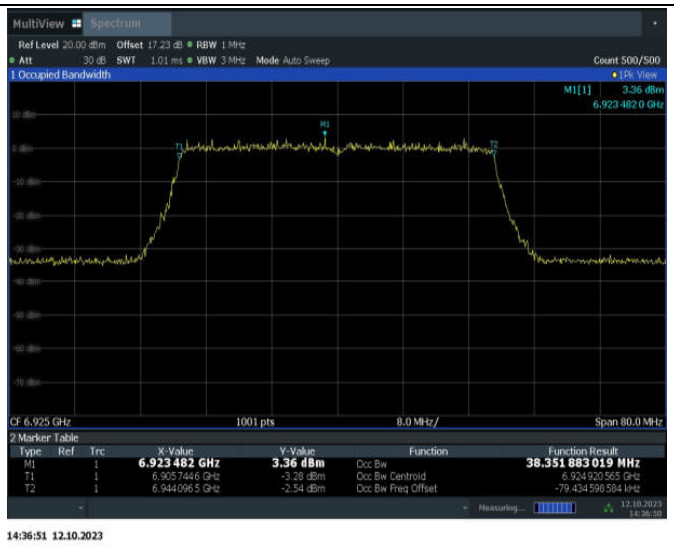

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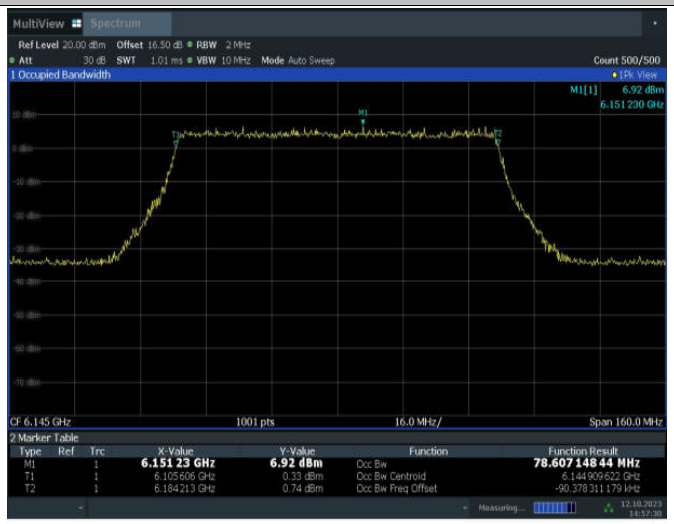

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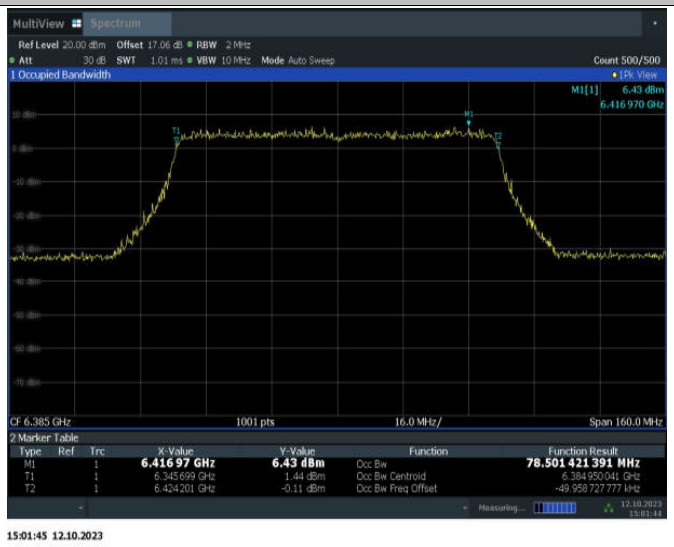

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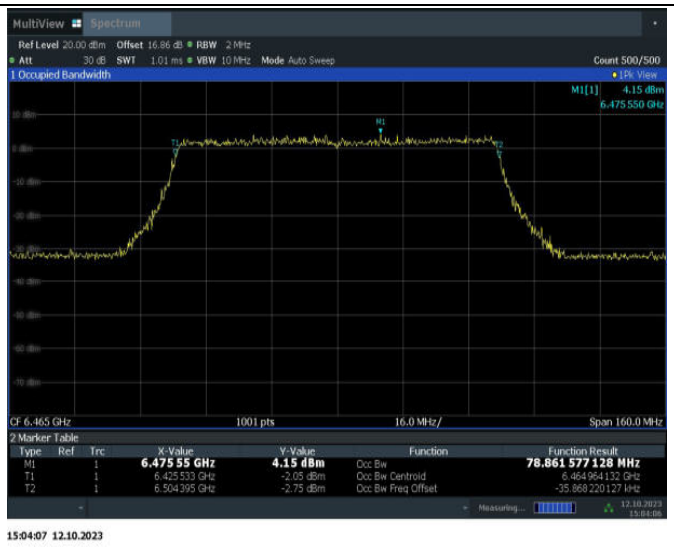

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11BE80MIMO_Ant9_6545

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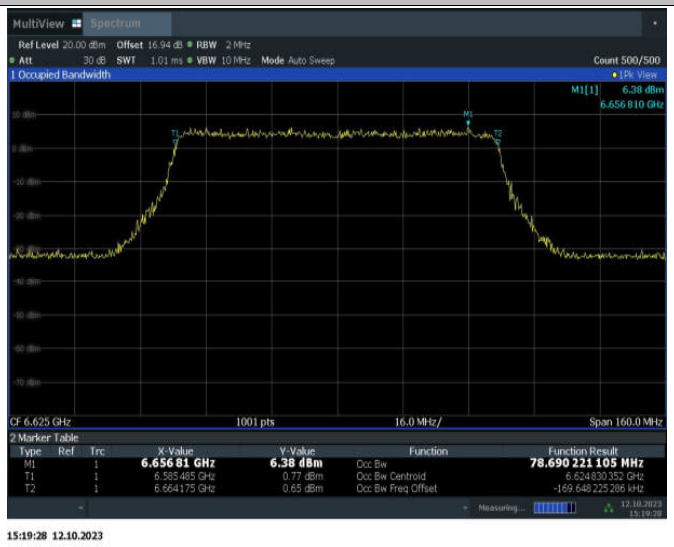

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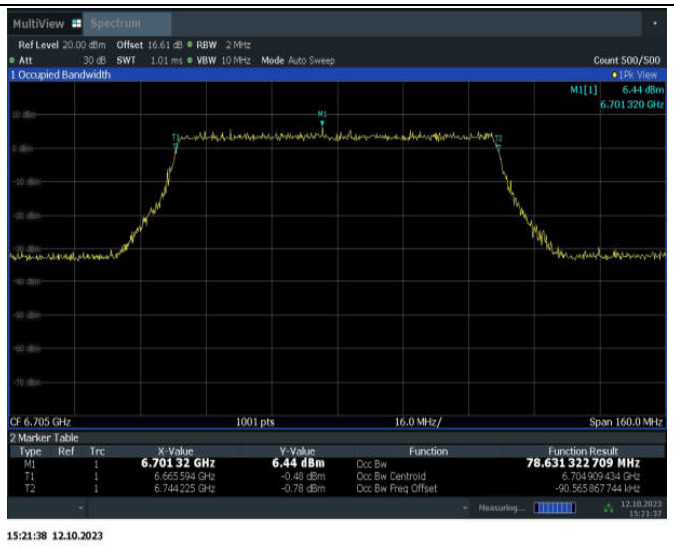

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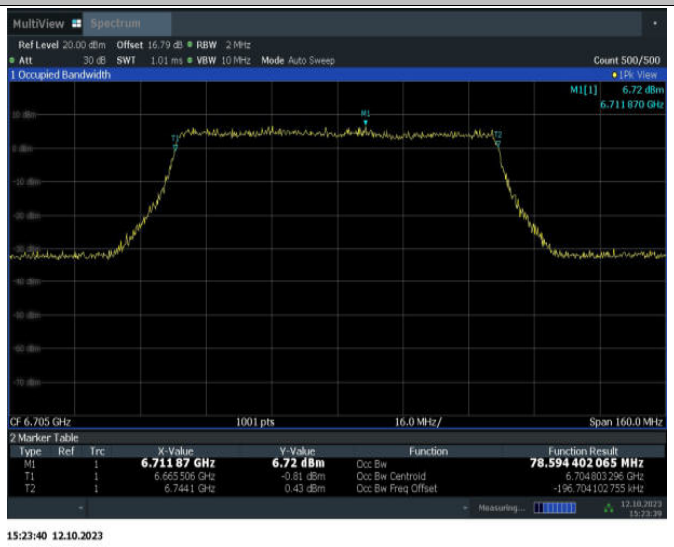

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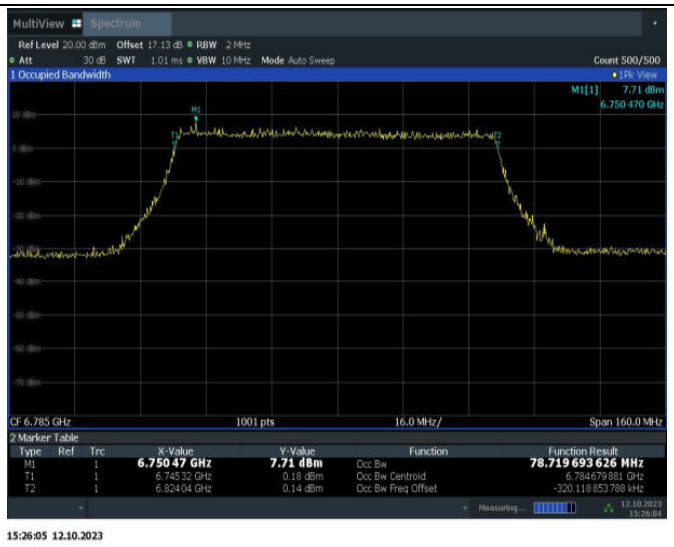

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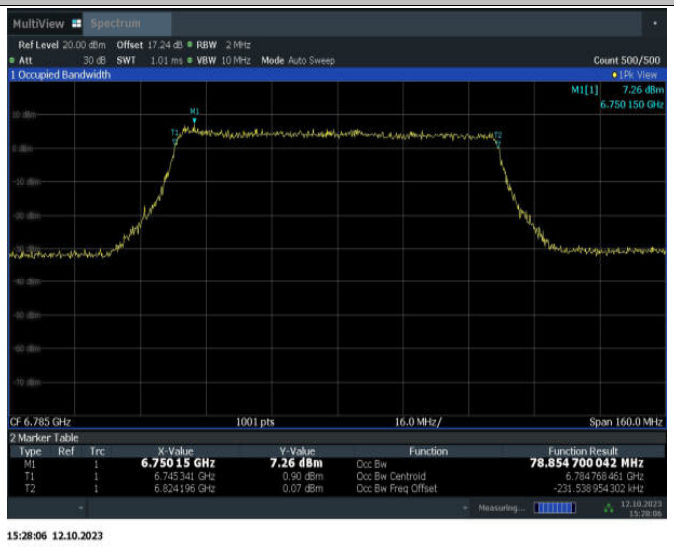

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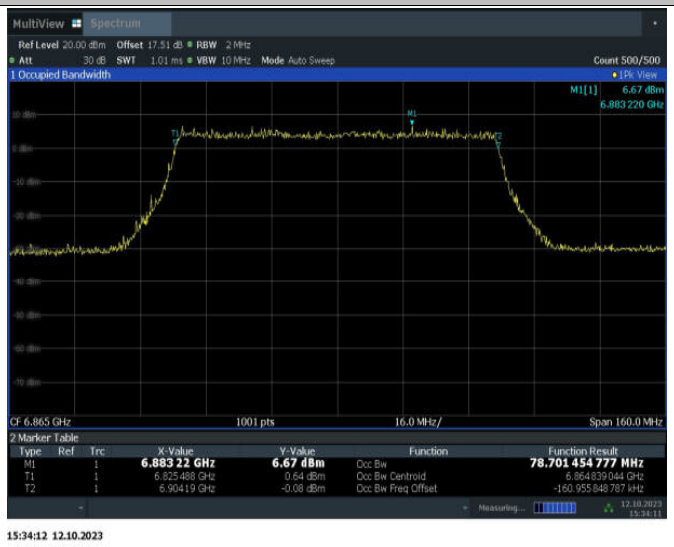

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11BE80MIMO_Ant9_7025

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11BE320MIMO_Ant9_6105

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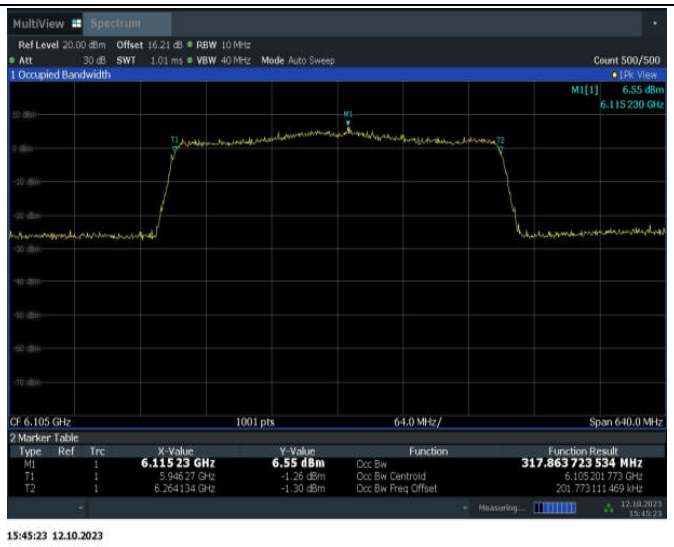

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11BE320MIMO_Ant9_6265

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A.6. Contention Based Protocol

Measurement Limit and Method:

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

The measurement is made according to KDB 987594.

EUT does NOT use channel puncturing for incumbent avoidance. The EUT use bandwidth reduction for incumbent avoidance. An example figure 1, take the UNII-5 band 320 MHz channel:

Working channel：5975MHz（primary channel）

Bandwidth：320MHz

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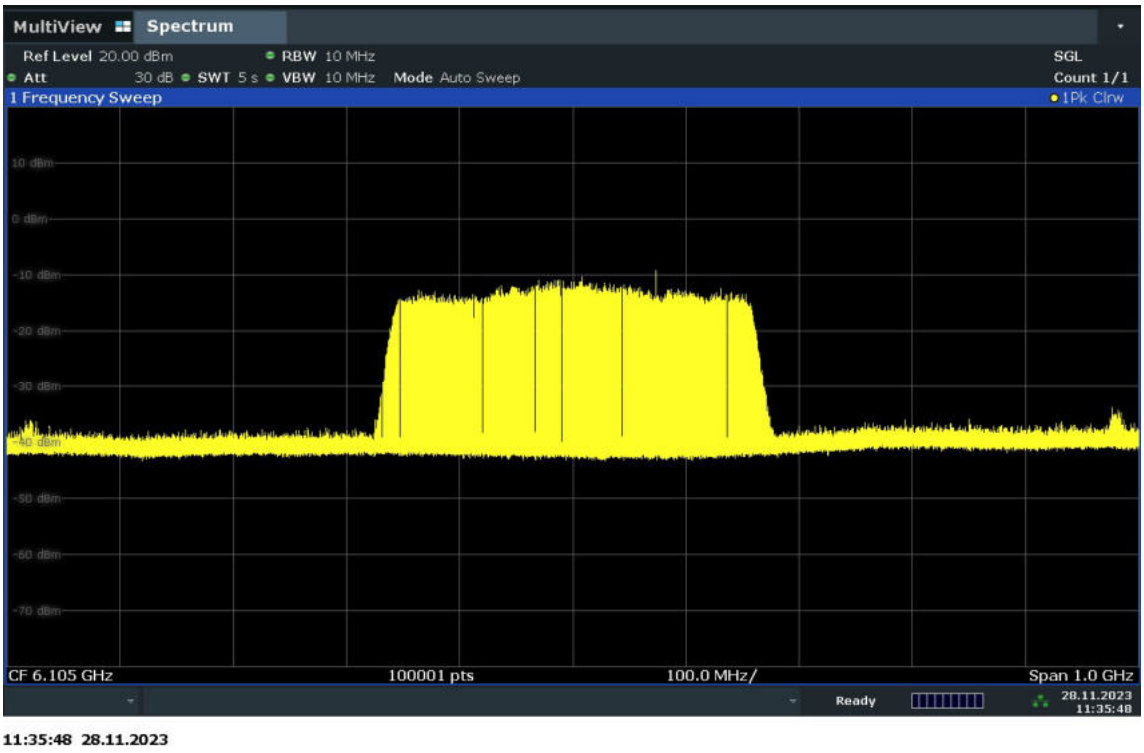

Figure 1

Injected signal 10MHz AWGN：
lower：5950MHz；
middle：6105MHz；
upper：6260MHz
For the lower edge
A 10 MHz AWGN signal (center frequency is 5950MHz) is injected, the EUT state on frequency domain is shown in figure 2, the bandwidth reduce to 40MHz (the primary channel is 5950MHz), and the other channel stop the data transmissions:
Mark1: primary channel
Mark2: AWGN signal center frequency

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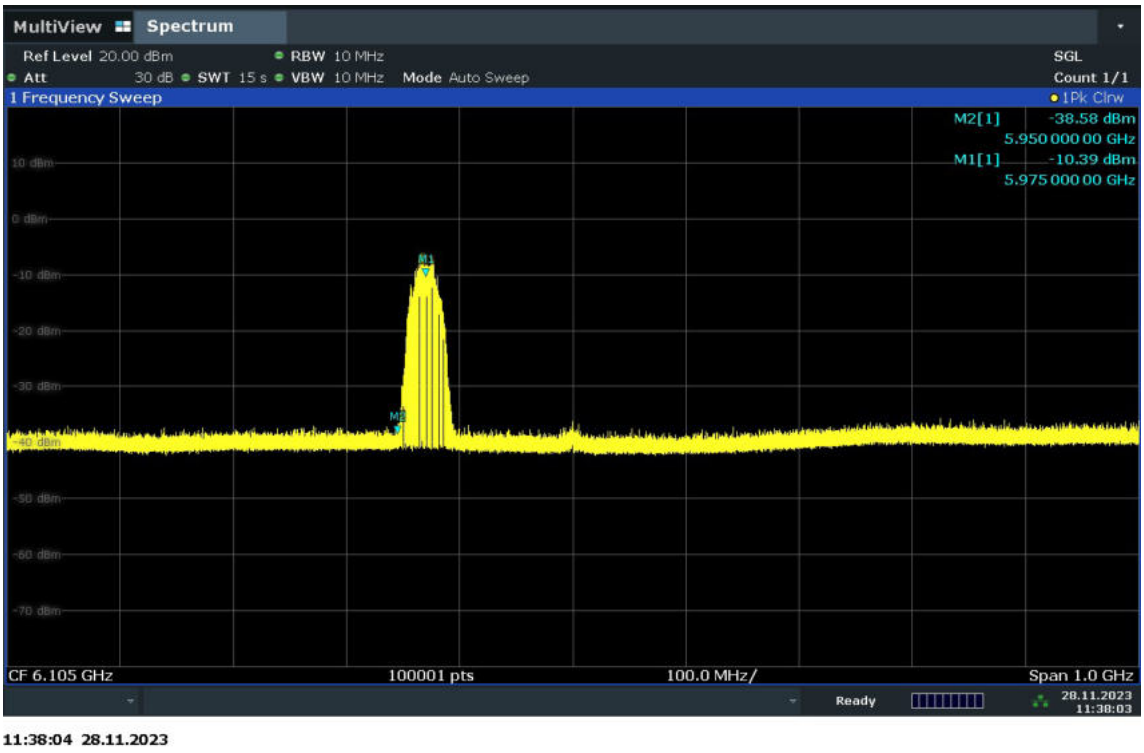

Figure 2

For the middle:

A 10 MHz AWGN signal (center frequency is 6105MHz) is injected, the EUT state on frequency domain is shown in figure 3, DUT stop data transmissions on all channel:

Mark1: primary channel

Mark2: AWGN signal center frequency

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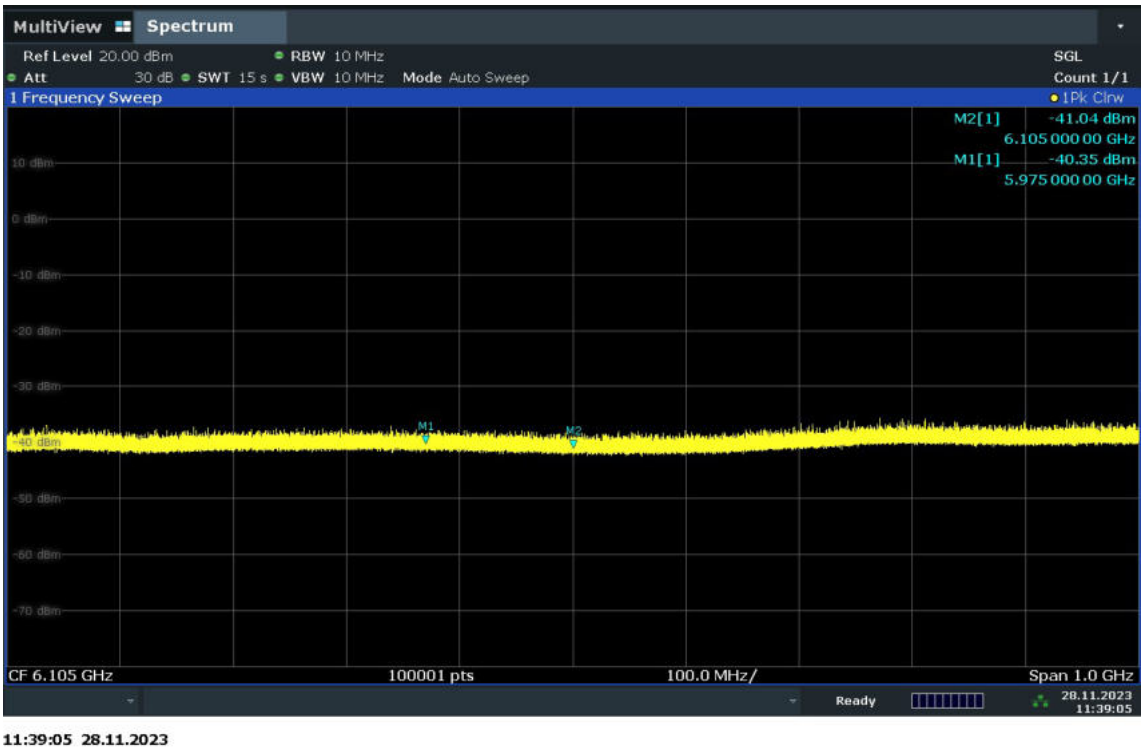

Figure 3

For the upper edge

A 10 MHz AWGN signal (center frequency is 6260MHz) is injected, the EUT state on frequency domain is shown in figure 4,the bandwidth reduce to 160MHz (the primary channel is 5950MHz), and the other channel stop the data transmissions :

Mark1: primary channel

Mark2: AWGN signal center frequency

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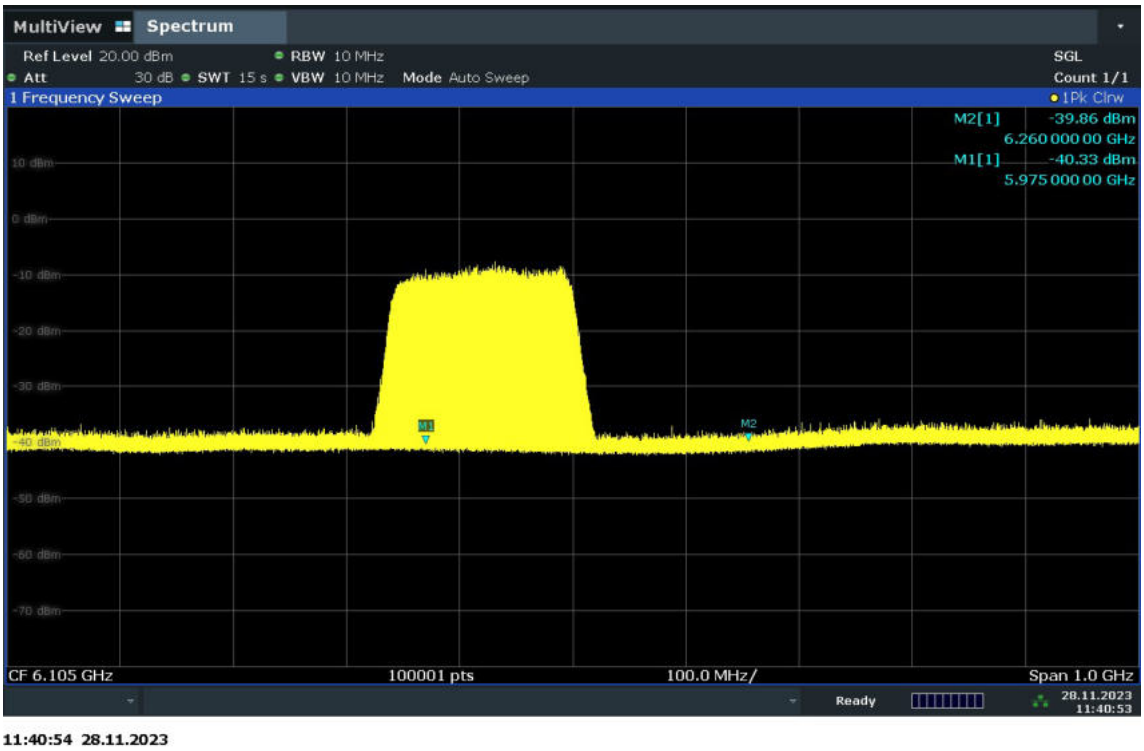

Figure 4

Measurement Results:

Note: The test evaluated the minimum antenna gain, which is reflected in the Ant Gain column.

Band	BW (MHz)	Fre. (MHz)	Incumbent Freq (MHz)	AWGN Signal Level (at Antenna Port) (dBm)	Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)	Ant Gain (dBi)	Detection Rate(%)	Threshold Level(dBm)
UNII Band 5	20	6135	6135 fc1 = fc2	-66.5	-64	-2.5	90	-62
					Cease transmission			
				-69.5	-67	-2.5	<90	-62
					Minimal transmission			
				-90	-87.5	-2.5	0	-62
					Normal transmission			
	320	6105	5950	-66.5	-64	-2.5	90	-62

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			Lower Edge		Cease transmission			
				-69.4	-66.9	-2.5	<90	-62
					Minimal transmission			
				-90	-87.5	-2.5	0	-62
					Normal transmission			
			6105 fc1 = fc2	-66.5	-64	-2.5	90	-62
					Cease transmission			
				-67.4	-64.9	-2.5	<90	-62
					Minimal transmission			
				-90	-87.5	-2.5	0	-62
					Normal transmission			
			6260 Upper Edge	-66.1	-63.6	-2.5	90	-62
					Cease transmission			
				-66.7	-64.2	-2.5	<90	-62
					Minimal transmission			
				-90	-87.5	-2.5	0	-62
					Normal transmission			
Band	**BW (MHz)**	**Fre. (MHz)**	**Incumbent Freq (MHz)**	**AWGN Signal Level (at Antenna Port) (dBm)**	**Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)**	**Ant Gain (dBi)**	**Detection Rate(%)**	**Threshold Level(dBm)**
UNII Band 6	20	6455	6455 fc1 = fc2	-67	-63.1	-3.9	100	-62
					Cease transmission			
				-70	-66.1	-3.9	<90	-62
					Minimal transmission			
				-90	-86.1	-3.9	0	-62
					Normal transmission			

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320 UNII Band 5/6/7	320	6425	6270 Lower Edge	-68.5	-66	-2.5	90	-62
					Cease transmission			
				-70.9	-68.4	-2.5	<90	-62
					Minimal transmission			
				-90	-87.5	-2.5	0	-62
					Normal transmission			
			6425 fc1 = fc2	-66.4	-62.5	-3.9	100	-62
					Cease transmission			
				-66.9	-63	-3.9	<90	-62
					Minimal transmission			
				-90	-86.1	-3.9	0	-62
					Normal transmission			
			6580 Upper Edge	-67.4	-63.9	-3.5	100	-62
					Cease transmission			
				-70.4	-66.9	-3.5	<90	-62
					Minimal transmission			
				-90	-86.5	-3.5	0	-62
					Normal transmission			
Band	**BW (MHz)**	**Fre. (MHz)**	**Incumbent Freq (MHz)**	**AWGN Signal Level (at Antenna Port) (dBm)**	**Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)**	**Ant Gain (dBi)**	**Detection Rate(%)**	**Threshold Level(dBm)**
UNII Band 7	20	6855	6855 fc1 = fc2	-67	-63.5	-3.5	100	-62
					Cease transmission			
				-70	-66.5	-3.5	<90	-62
					Minimal transmission			
				-90	-86.5	-3.5	0	-62

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					Normal transmission			
320 UNII Band 7(8)	320	6745	6590 Lower Edge	-66.9	-63.4	-3.5	90	-62
					Cease transmission			
				-68.5	-65	-3.5	<90	-62
					Minimal transmission			
				-90	-86.5	-3.5	0	-62
					Normal transmission			
			6745 fc1 = fc2	-67	-63.5	-3.5	100	-62
					Cease transmission			
				-68.5	-65	-3.5	<90	-62
					Minimal transmission			
				-90	-86.5	-3.5	0	-62
					Normal transmission			
			6900 Upper Edge	-67.9	-64.5	-3.4	90	-62
					Cease transmission			
				-71.4	-68	-3.4	<90	-62
					Minimal transmission			
				-90	-86.6	-3.4	0	-62
					Normal transmission			
Band	**BW (MHz)**	**Fre. (MHz)**	**Incumbent Freq (MHz)**	**AWGN Signal Level (at Antenna Port) (dBm)**	**Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)**	**Ant Gain (dBi)**	**Detection Rate(%)**	**Threshold Level(dBm)**
UNII Band 8	20	7015	7015 fc1 = fc2	-67	-63.6	-3.4	100	-62
					Cease transmission			
				-70	-66.6	-3.4	<90	-62
					Minimal transmission			

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				-90	-86.6	-3.4	0	-62
					Normal transmission			
320 UNII Band 8(7)	320	6745	6590 Lower Edge	-66.9	-63.4	-3.5	90	-62
					Cease transmission			
				-68.5	-65	-3.5	<90	-62
					Minimal transmission			
				-90	-86.5	-3.5	0	-62
					Normal transmission			
			6745 fc1 = fc2	-67	-63.5	-3.5	90	-62
					Cease transmission			
				-68.5	-65	-3.5	<90	-62
					Minimal transmission			
				-90	-86.5	-3.5	0	-62
					Normal transmission			
			6900 Upper Edge	-67.9	-64.5	-3.4	100	-62
					Cease transmission			
				-71.4	-68	-3.4	<90	-62
					Minimal transmission			
				-90	-86.6	-3.4	0	-62
					Normal transmission			

Note: Incumbent signal level (dBm) = AWGN Signal power Level (dBm)-Antenna Gain (dBi),

The EUT encounters the incumbent signal that its power level is less than or equal to the detection threshold (-62dBm) with reference to 0dBi antenna gain. Path loss is negligible (0dB).

EUT support bandwidth reduction mechanism.

Conclusion: PASS

Test graphs as below:

Mode	AWGN Signal Level	ceased transmission
802.1be-EHT20-7015MHz	See test graph	See test graph
802.11be-EHT320-6105MHz(middle)	See test graph	See test graph

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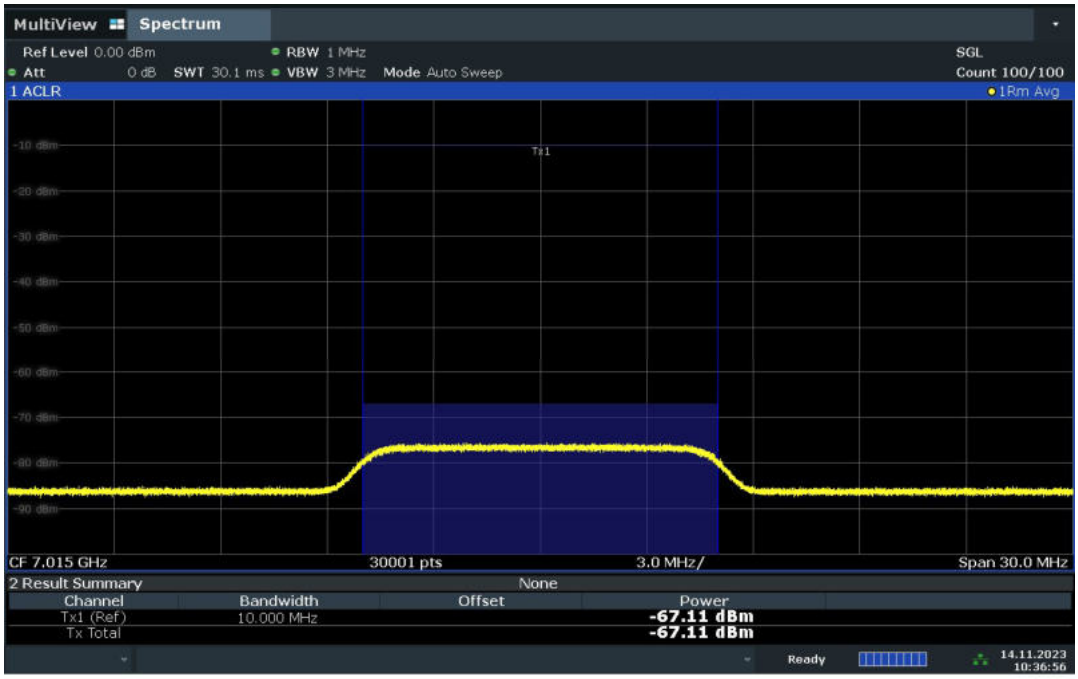

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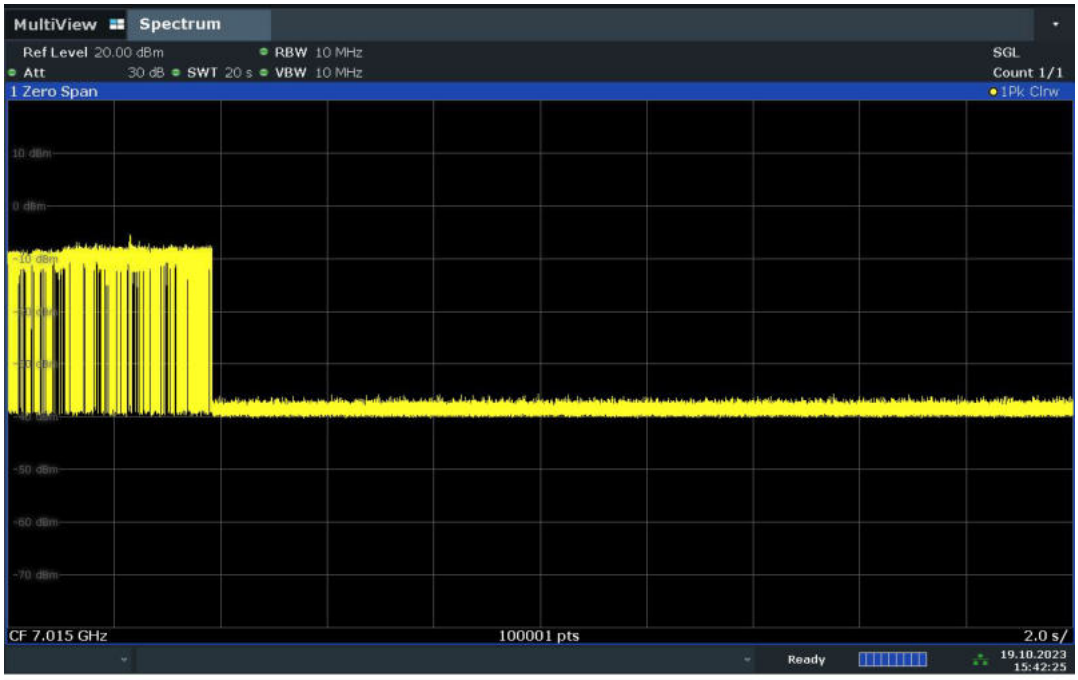
Contention Based Protocol 802.11be-EHT20 (ch7015MHz-AWGN Signal Level)



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Contention Based Protocol 802.11be-EHT20 (ch7015MHz-ceased transmission)

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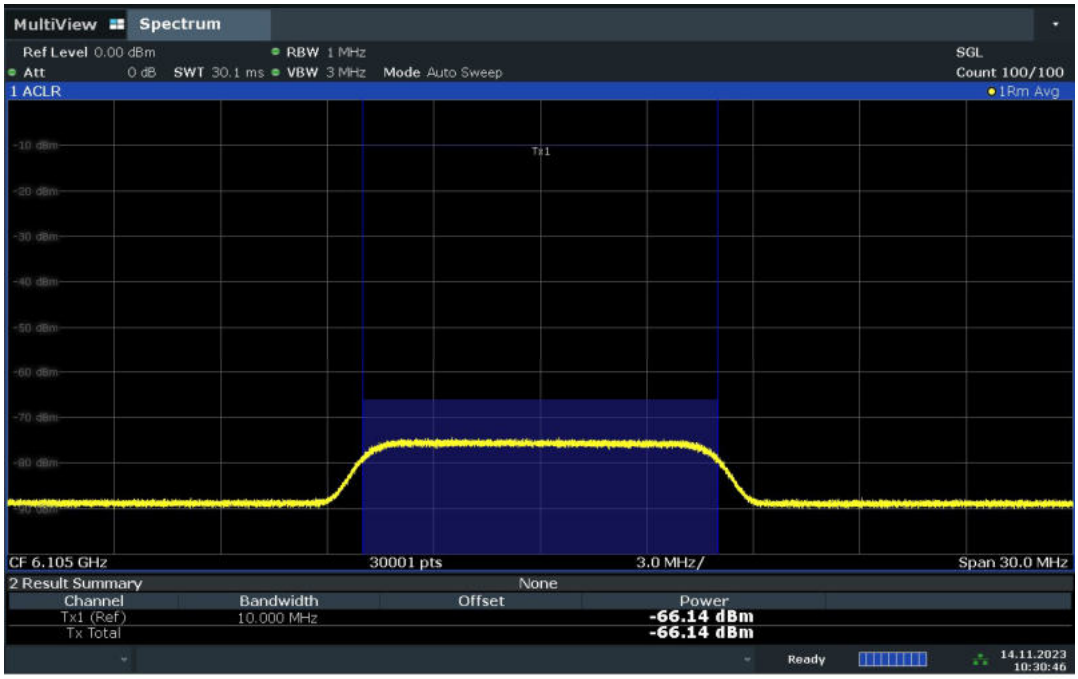

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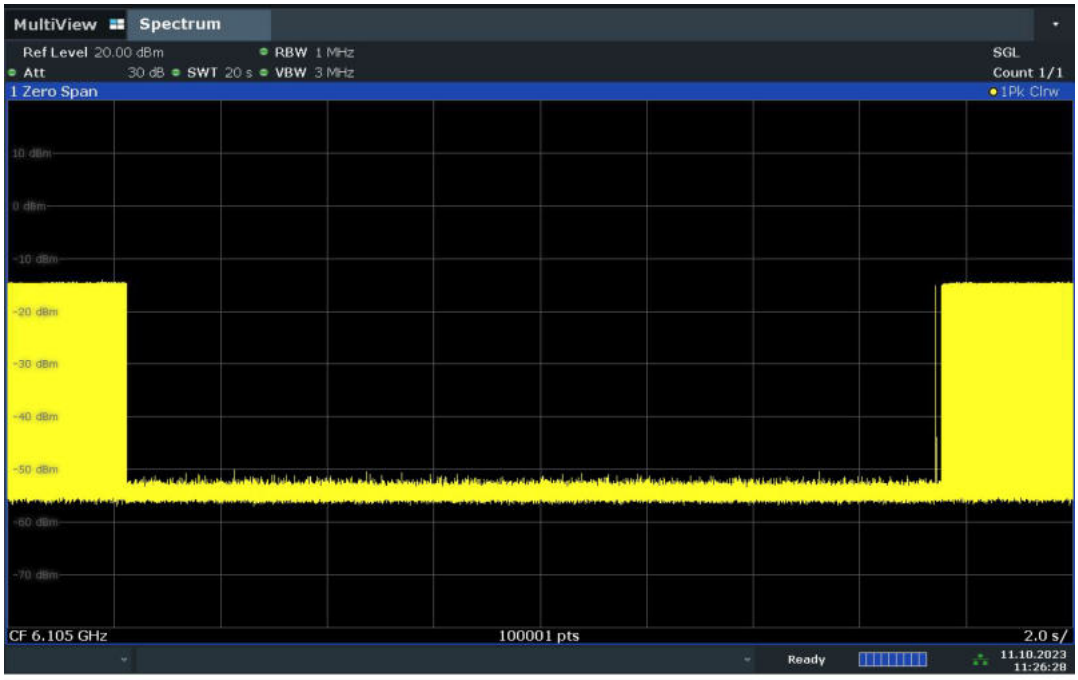

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Contention Based Protocol 802.11be-EHT320 (ch6105MHz-middle-ceased transmission)

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A.7. In-Band Emissions

Measurement Limit and Method:

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. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

b. Suppressed by 28 dB at one channel bandwidth from the channel center.

c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

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.

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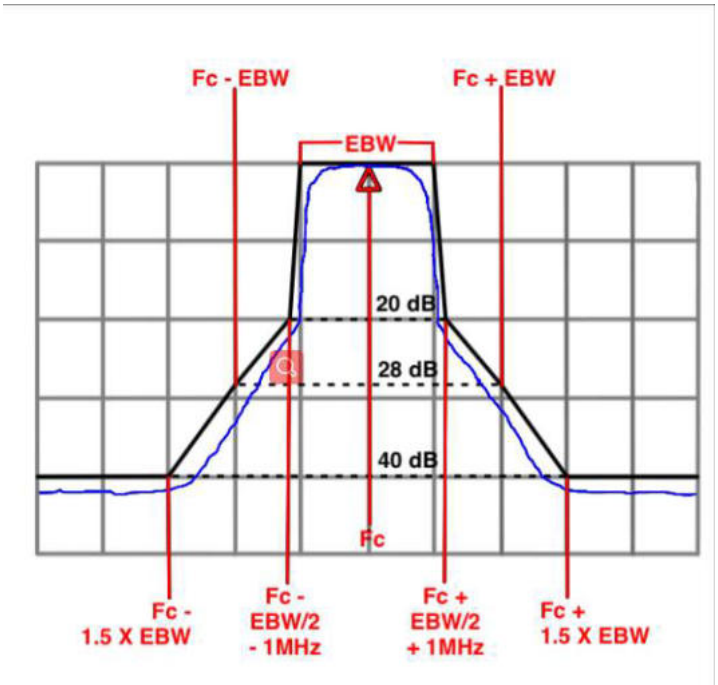

Generic Emission Mask

The measurement is made according to KDB 987594.

Measurement Results:

Test Mode	Antenna	Channel	Result	Limit	Verdict
11A-MIMO	Ant9	5955	See test graph	See test graph	PASS
	Ant15	5955	See test graph	See test graph	PASS
	Ant9	6175	See test graph	See test graph	PASS
	Ant15	6175	See test graph	See test graph	PASS
	Ant9	6415	See test graph	See test graph	PASS
	Ant15	6415	See test graph	See test graph	PASS
	Ant9	6435	See test graph	See test graph	PASS
	Ant15	6435	See test graph	See test graph	PASS
	Ant9	6475	See test graph	See test graph	PASS
	Ant15	6475	See test graph	See test graph	PASS
	Ant9	6515	See test graph	See test graph	PASS
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	Ant15	6535	See test graph	See test graph	PASS
	Ant9	6695	See test graph	See test graph	PASS
	Ant15	6695	See test graph	See test graph	PASS
	Ant9	6855	See test graph	See test graph	PASS
	Ant15	6855	See test graph	See test graph	PASS
	Ant9	6875	See test graph	See test graph	PASS
	Ant15	6875	See test graph	See test graph	PASS

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	Ant9	6895	See test graph	See test graph	PASS
	Ant15	6895	See test graph	See test graph	PASS
	Ant9	6995	See test graph	See test graph	PASS
	Ant15	6995	See test graph	See test graph	PASS
	Ant9	7115	See test graph	See test graph	PASS
	Ant15	7115	See test graph	See test graph	PASS
11AX160MIMO full RU	Ant9	6025	See test graph	See test graph	PASS
	Ant15	6025	See test graph	See test graph	PASS
	Ant9	6185	See test graph	See test graph	PASS
	Ant15	6185	See test graph	See test graph	PASS
	Ant9	6345	See test graph	See test graph	PASS
	Ant15	6345	See test graph	See test graph	PASS
	Ant9	6505	See test graph	See test graph	PASS
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	Ant15	6825	See test graph	See test graph	PASS
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	Ant15	6875	See test graph	See test graph	PASS
	Ant9	6895	See test graph	See test graph	PASS
	Ant15	6895	See test graph	See test graph	PASS

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	Ant15	6995	See test graph	See test graph	PASS
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	Ant15	7115	See test graph	See test graph	PASS
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	Ant9	6625	See test graph	See test graph	PASS
	Ant15	6625	See test graph	See test graph	PASS

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	Ant9	6705	See test graph	See test graph	PASS
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	Ant15	7025	See test graph	See test graph	PASS
11BE320MIMO full RU	Ant9	6105	See test graph	See test graph	PASS
	Ant15	6105	See test graph	See test graph	PASS
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	Ant15	6265	See test graph	See test graph	PASS
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Test Graphs

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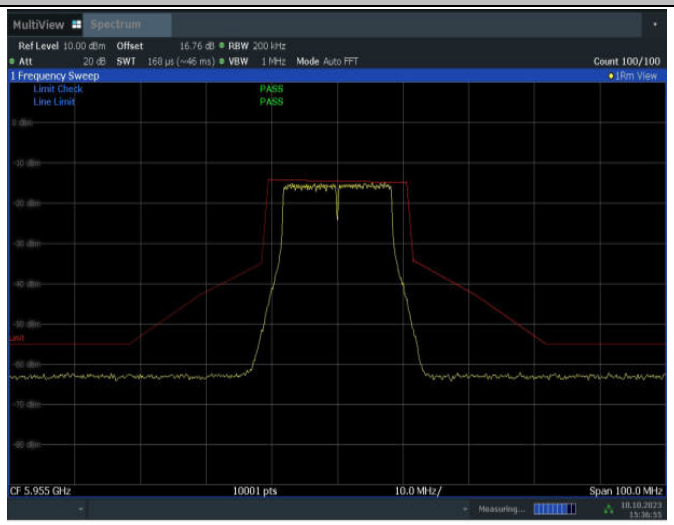
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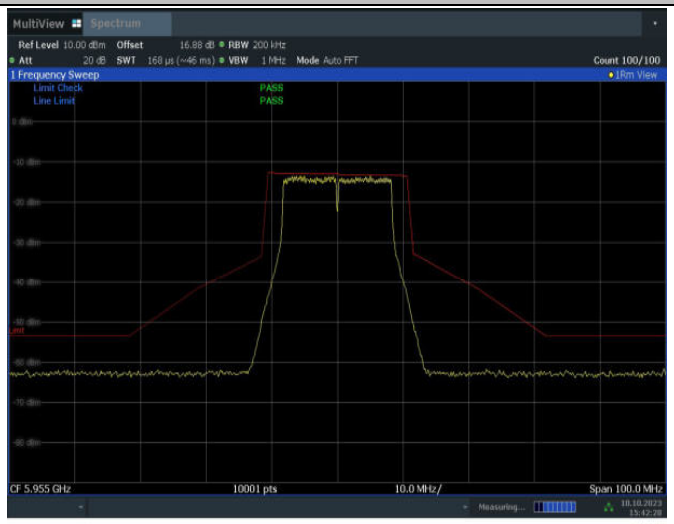
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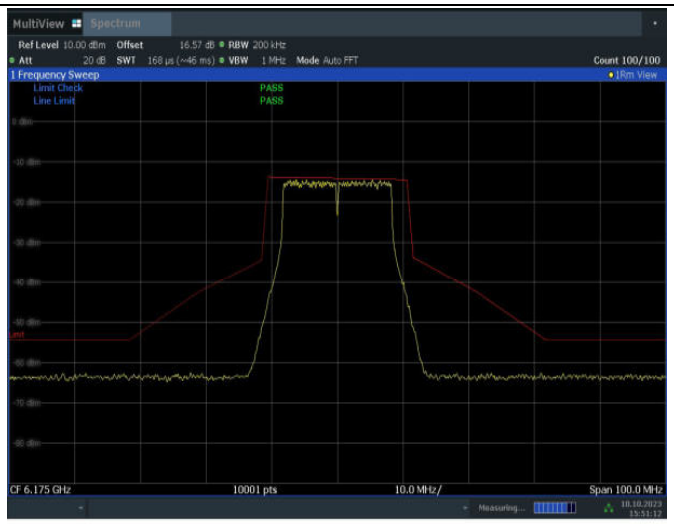

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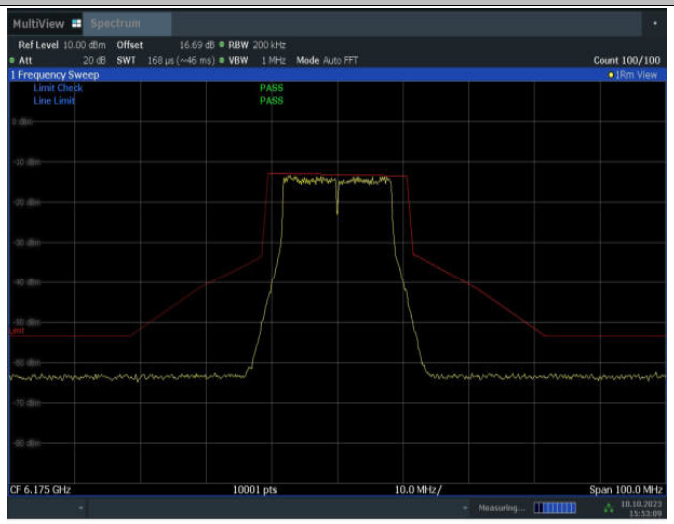

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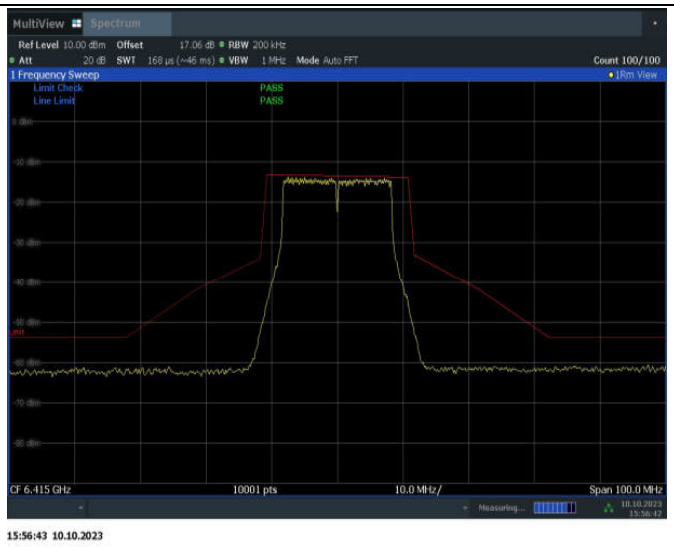

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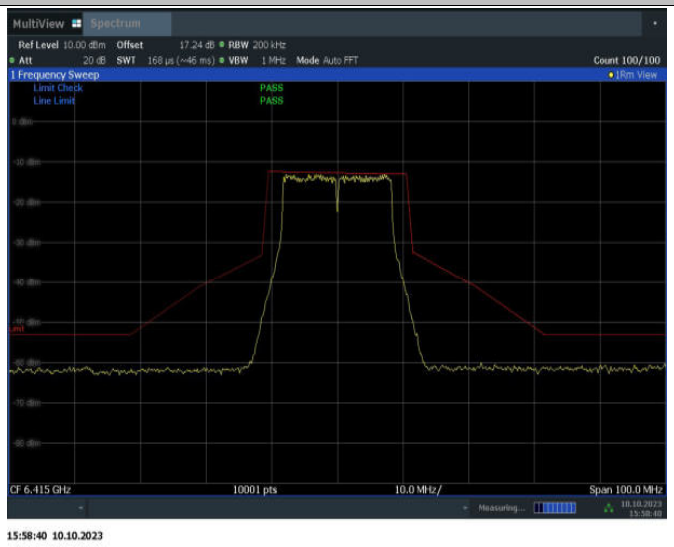

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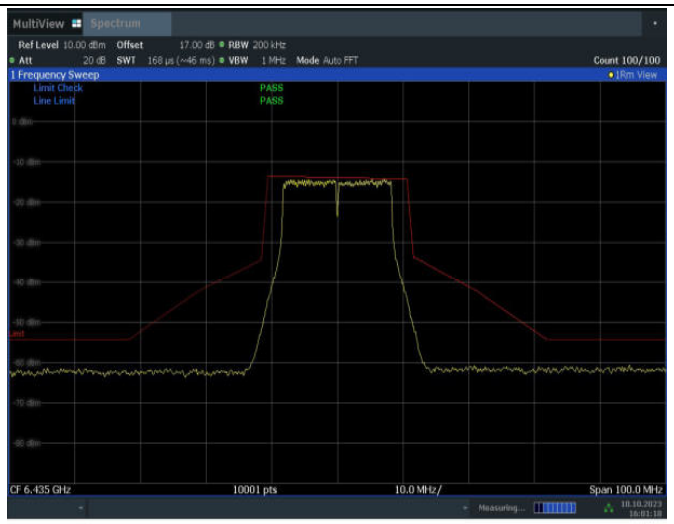

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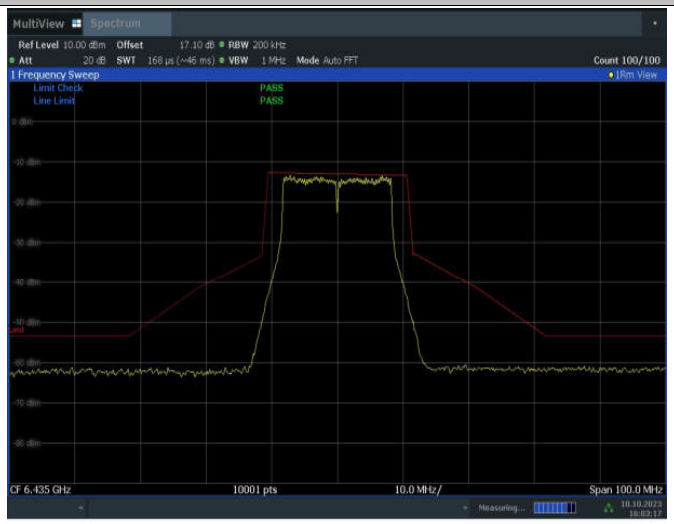

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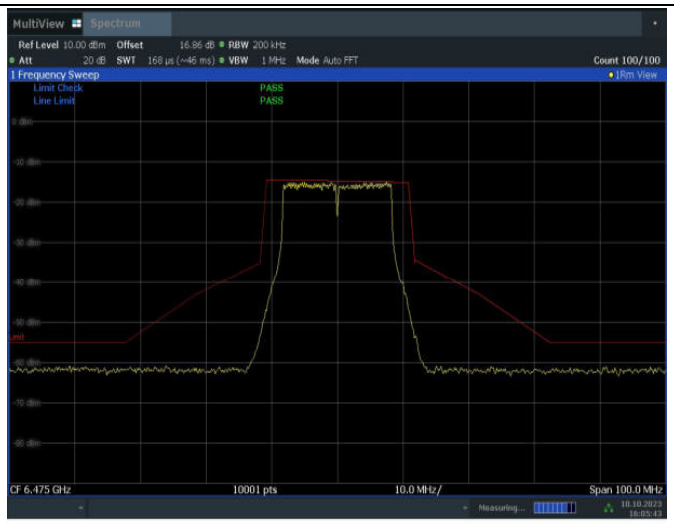

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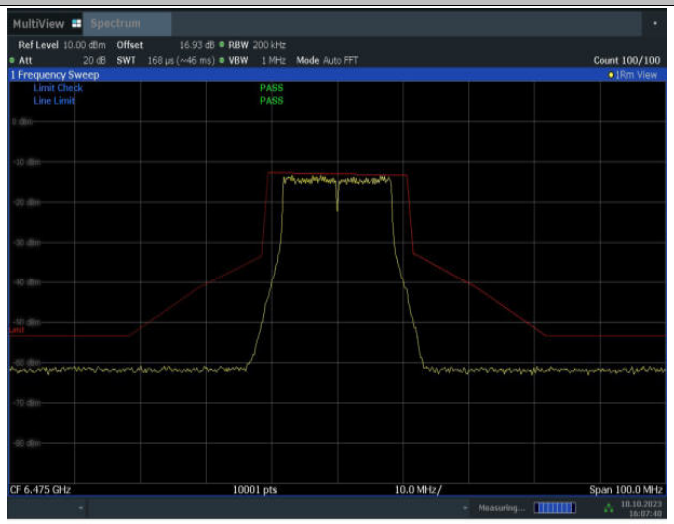

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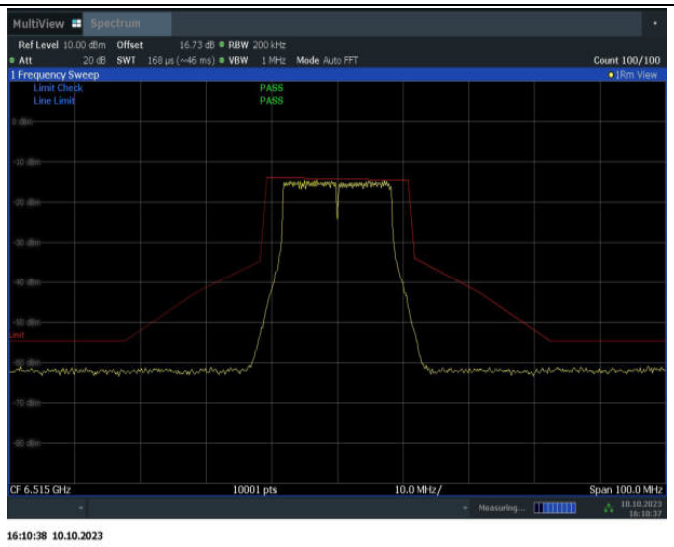

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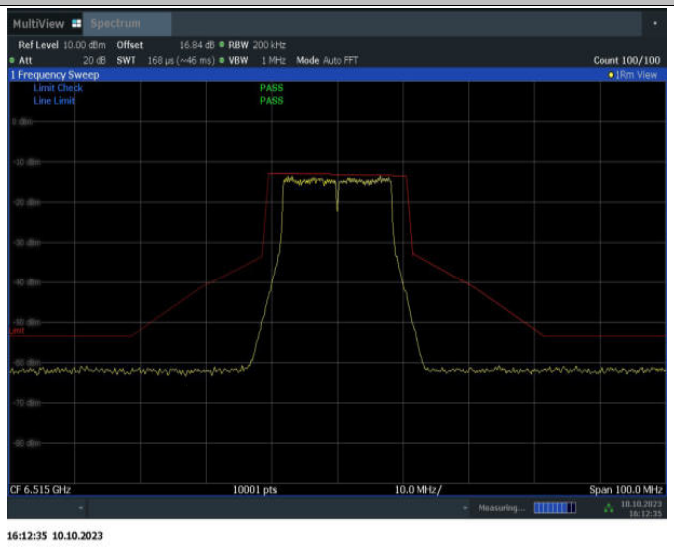

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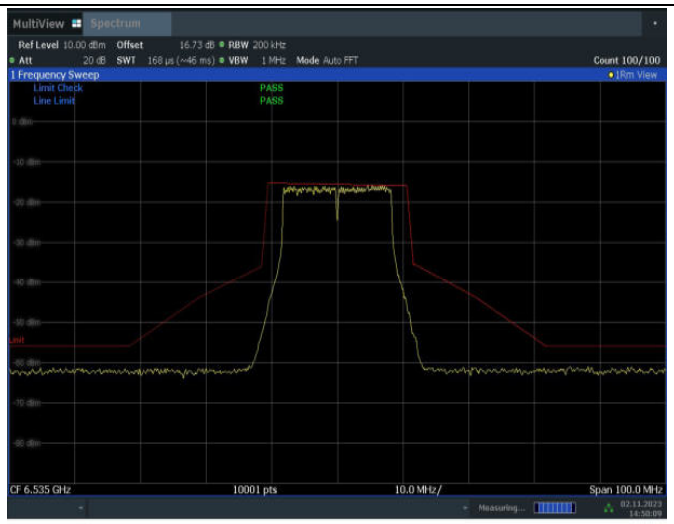

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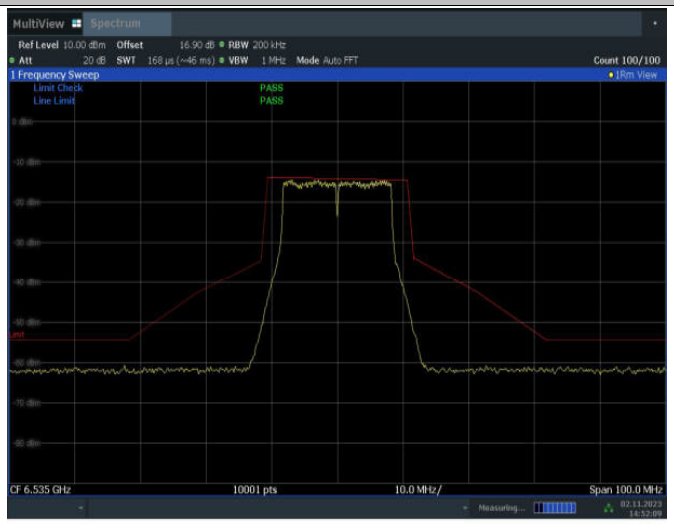

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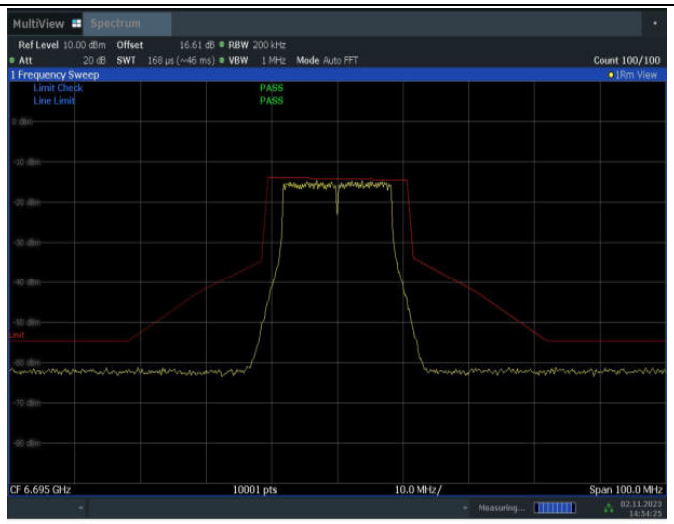

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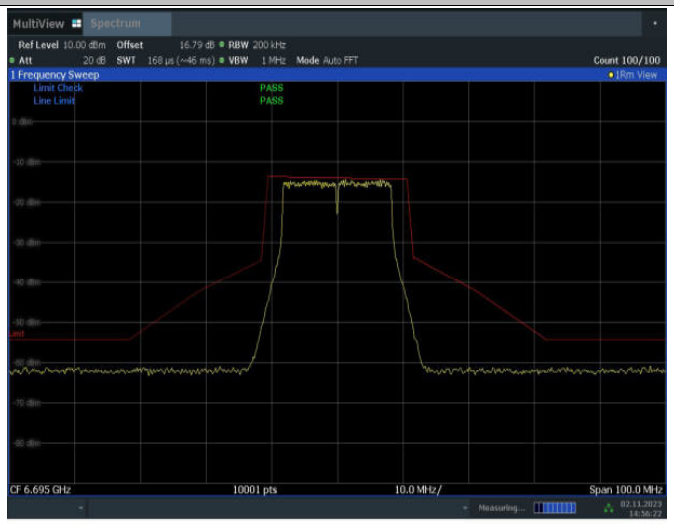

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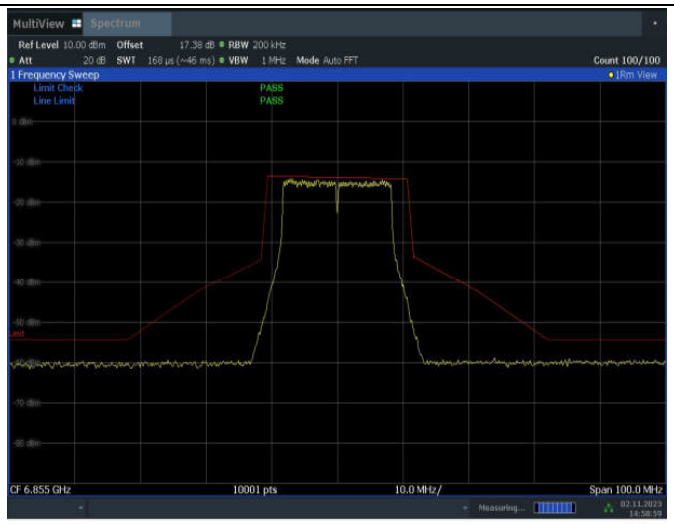

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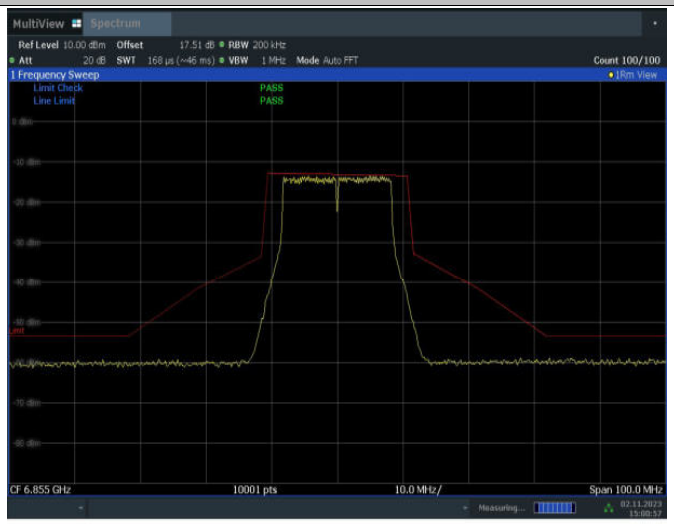

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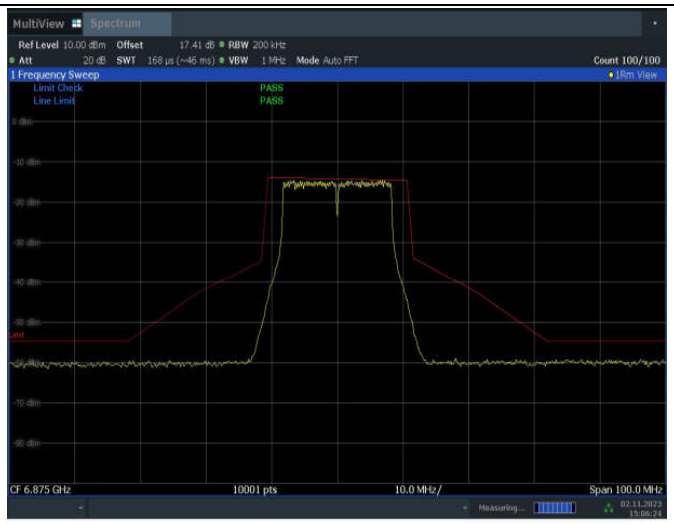

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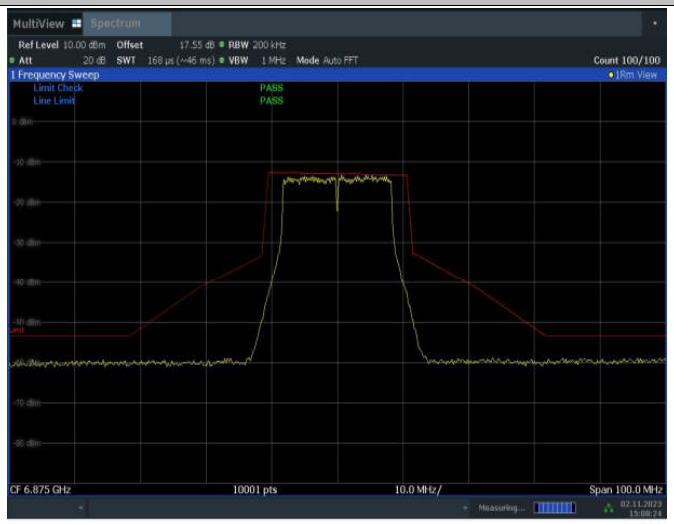

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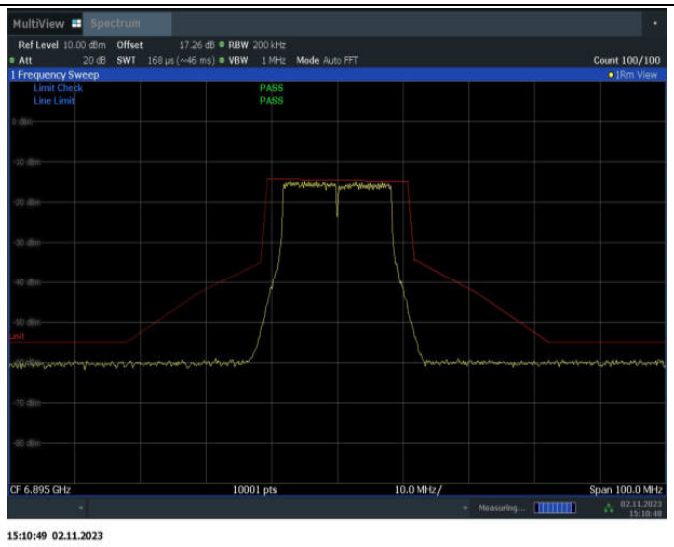

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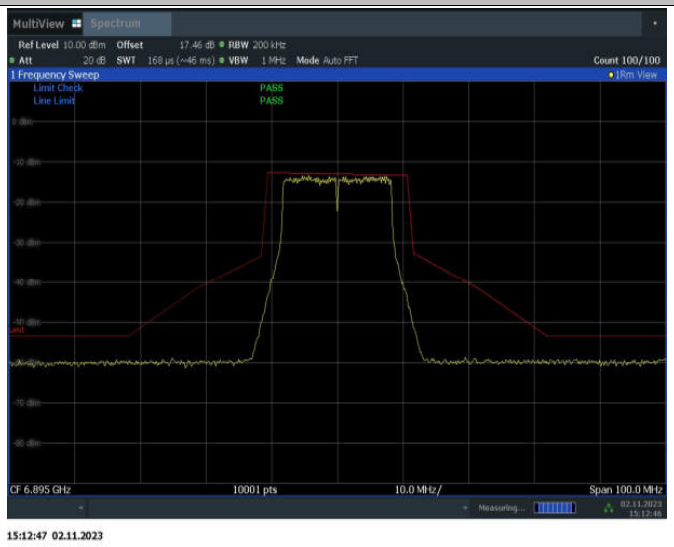

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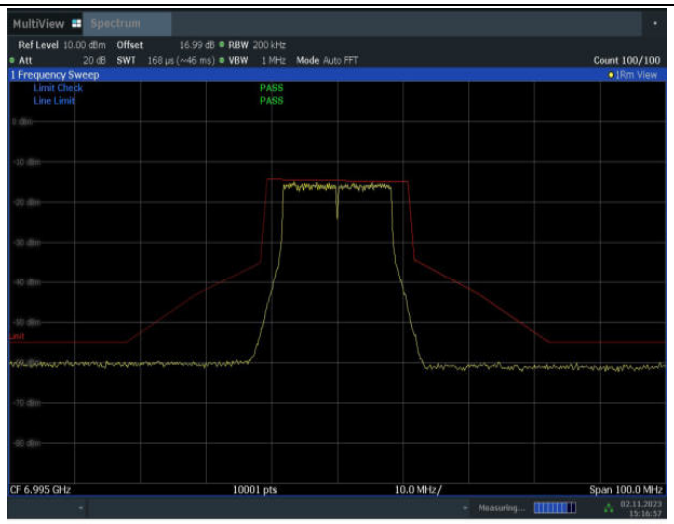

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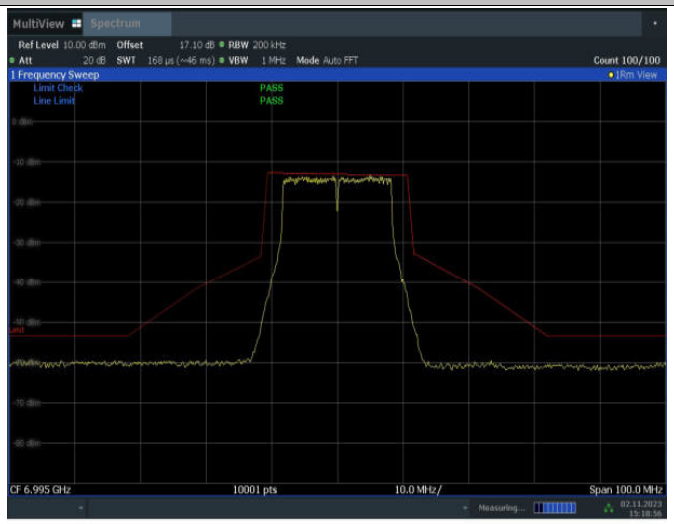

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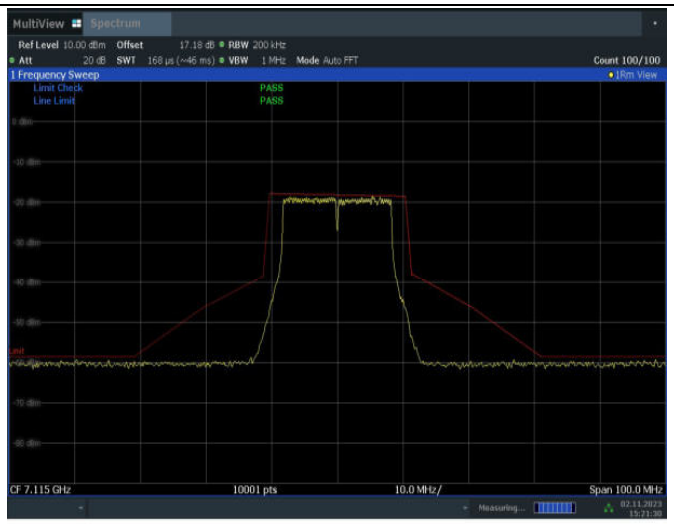

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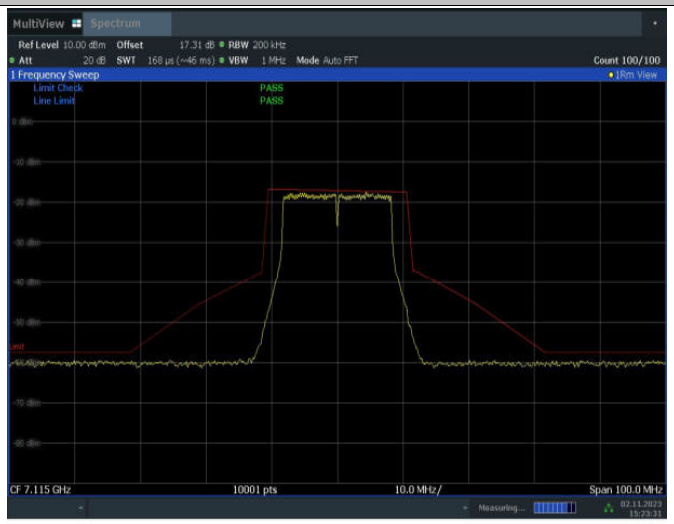

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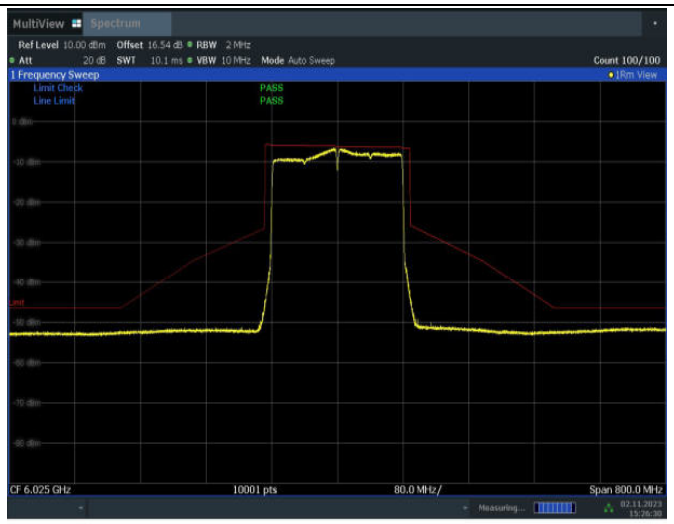

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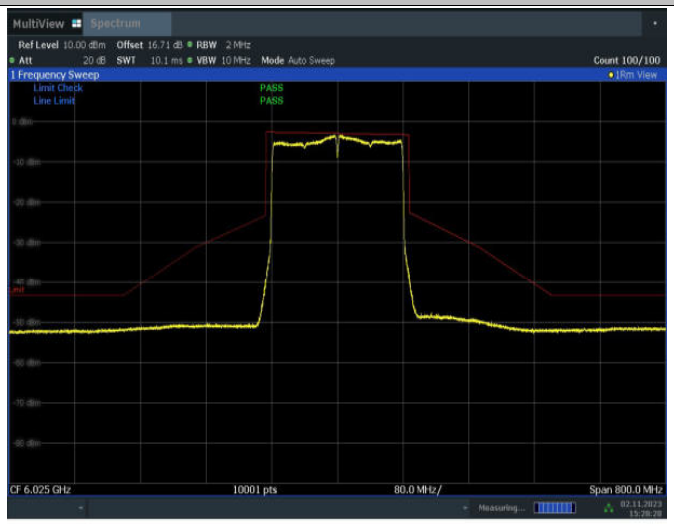

11AX160MIMO_Ant9_6185

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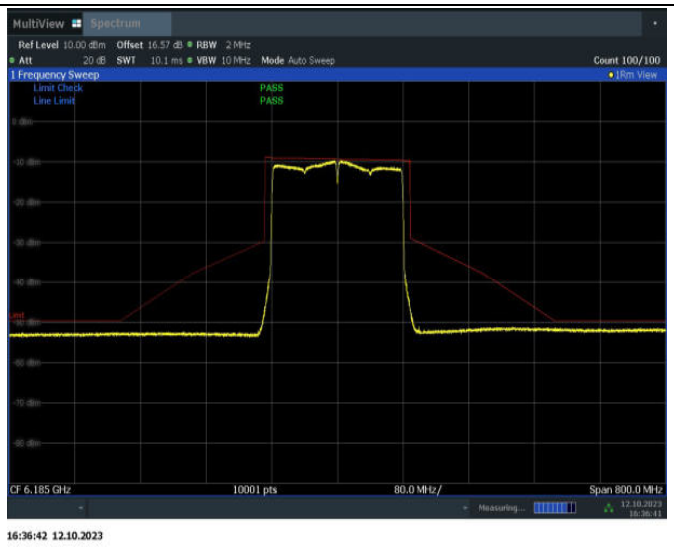

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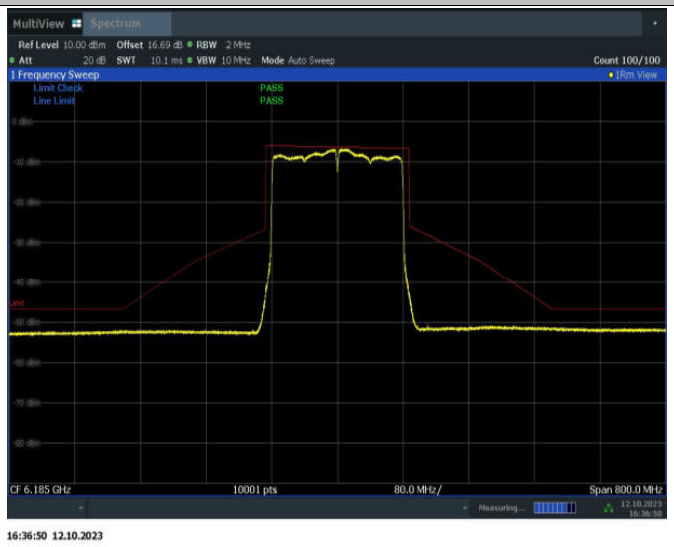

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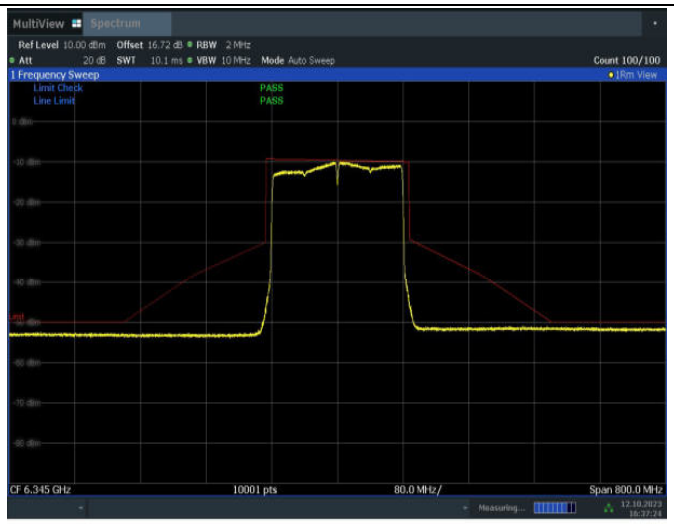

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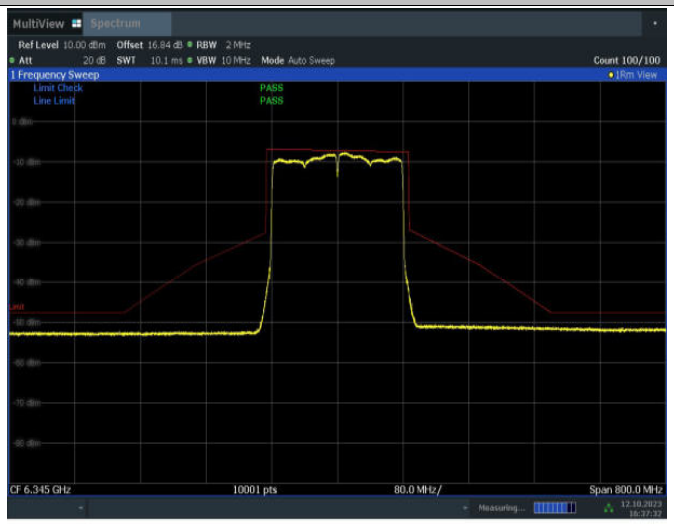

11AX160MIMO_Ant9_6505

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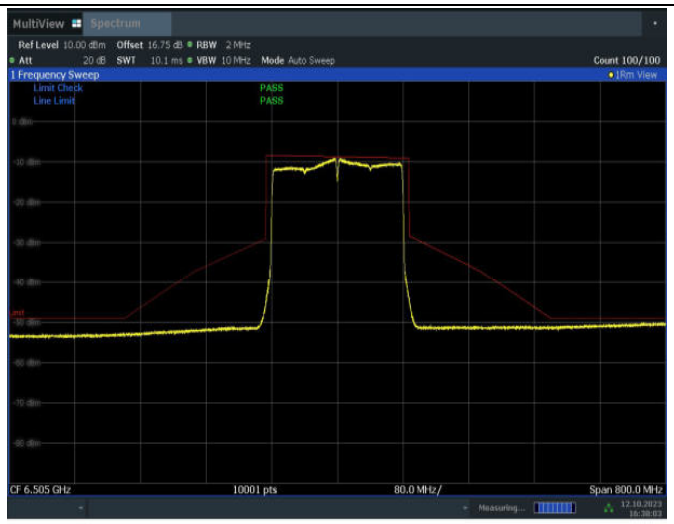

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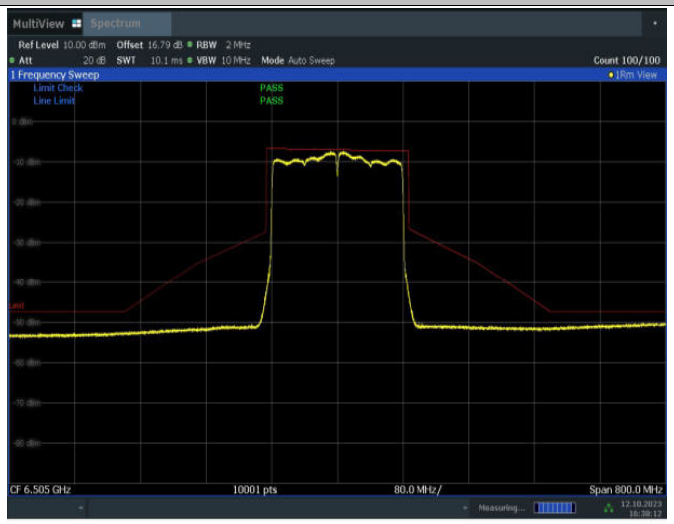

11AX160MIMO_Ant9_6665

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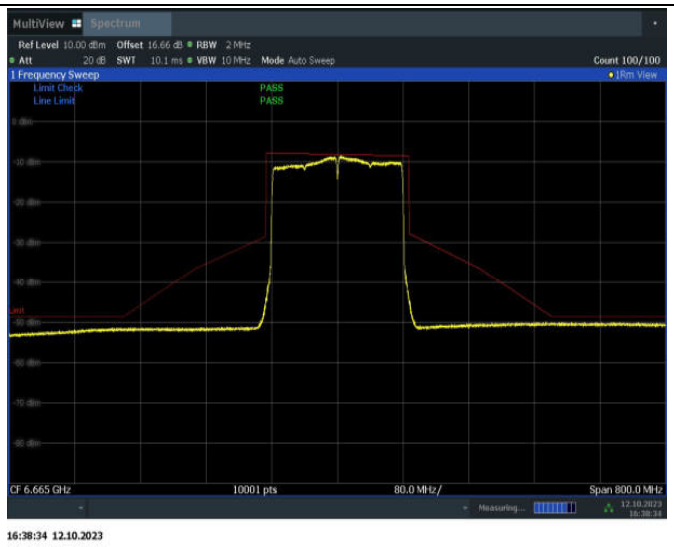

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11AX160MIMO_Ant9_6825

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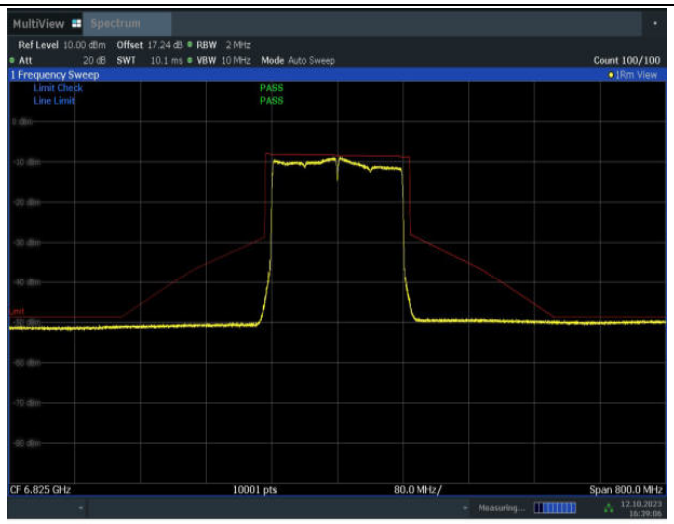

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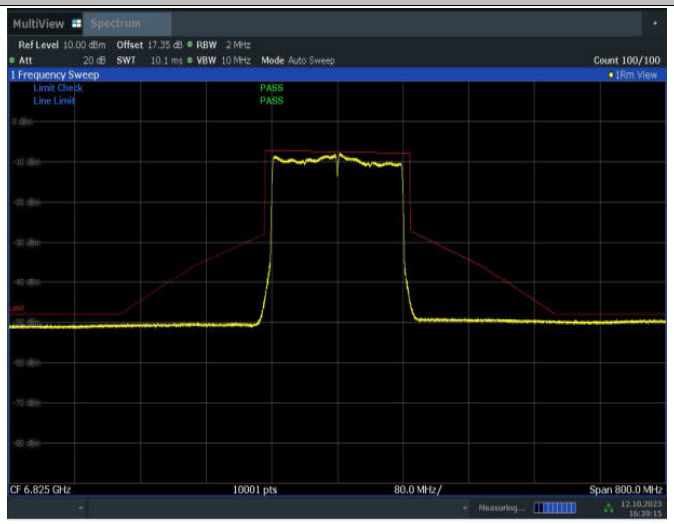

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