
9.5. LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §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.

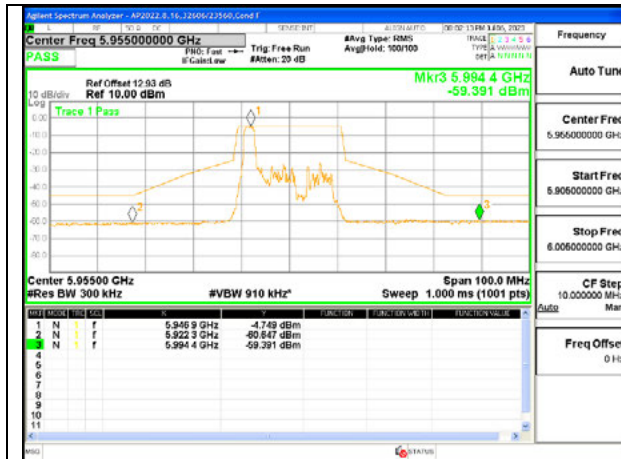
TEST PROCEDURE

Follow KDB 987594 D02 v01r01, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings.

RESULTS

9.5.1. 802.11ax HE20 MODE IN THE UNII-5 BAND

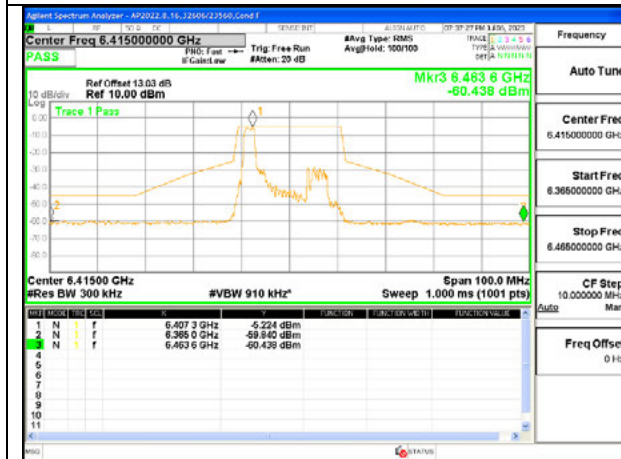
Antenna 6: 26-Tones, RU Index 0



LOW CHANNEL 5955

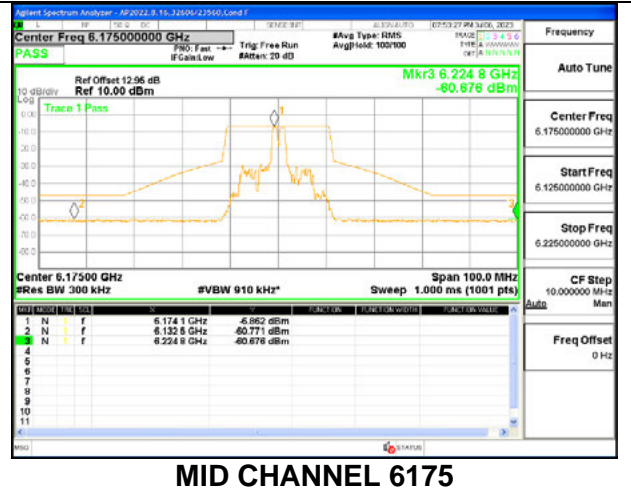
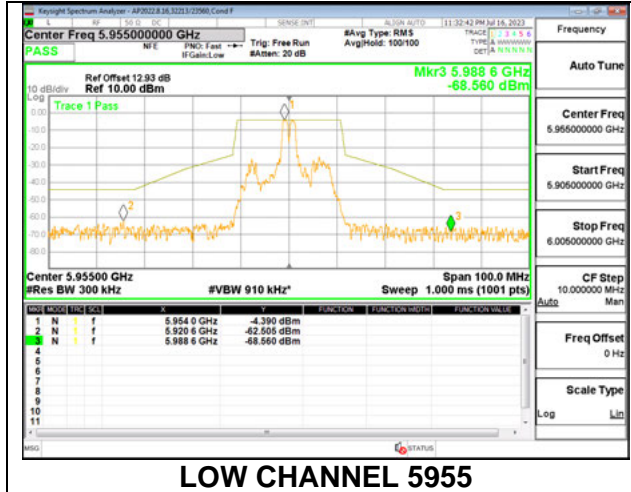


MID CHANNEL 6175

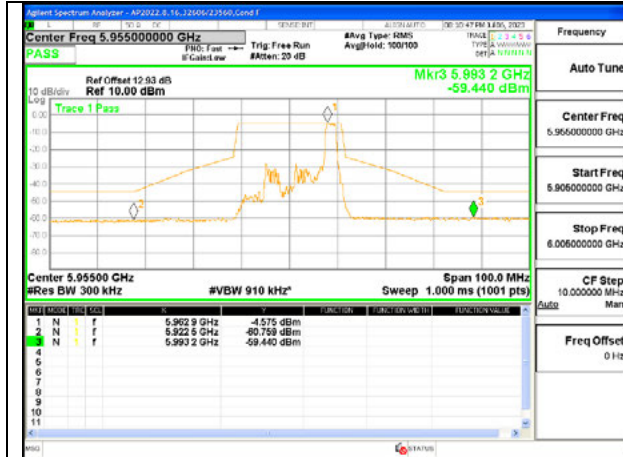


HIGH CHANNEL 6415

Antenna 6: 26-Tones, RU Index 4



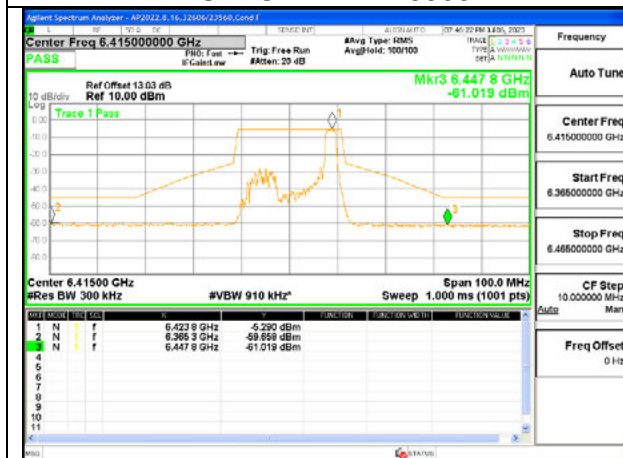
Antenna 6: 26-Tones, RU Index 8



LOW CHANNEL 5955

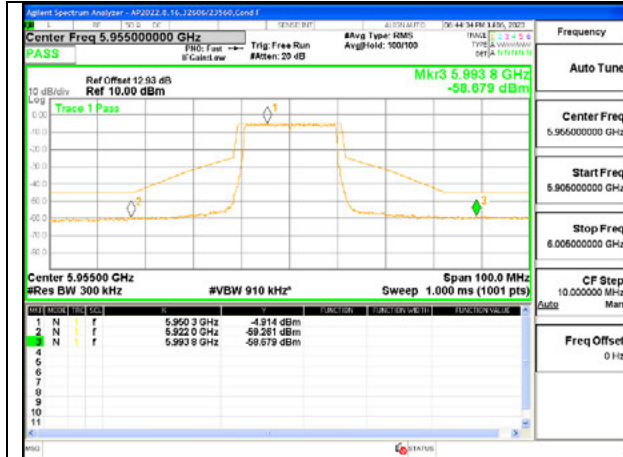


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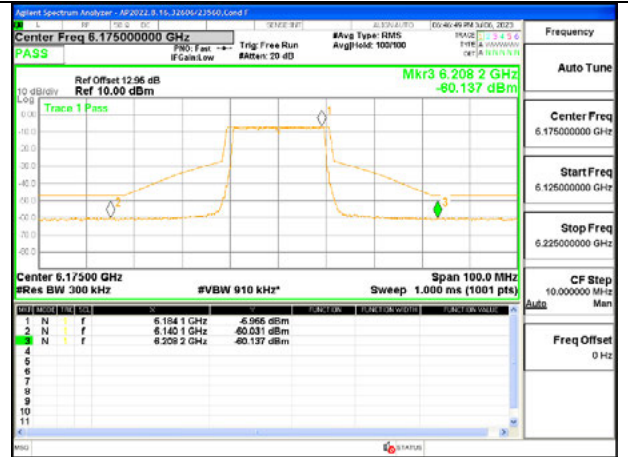


HIGH CHANNEL 6415

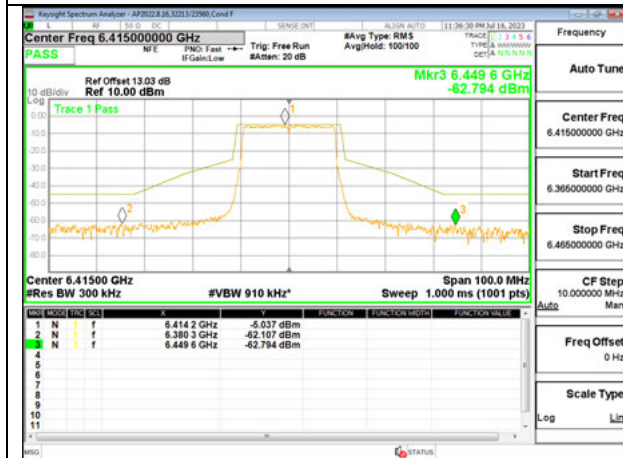
Antenna 6: SU MODE



LOW CHANNEL 5955

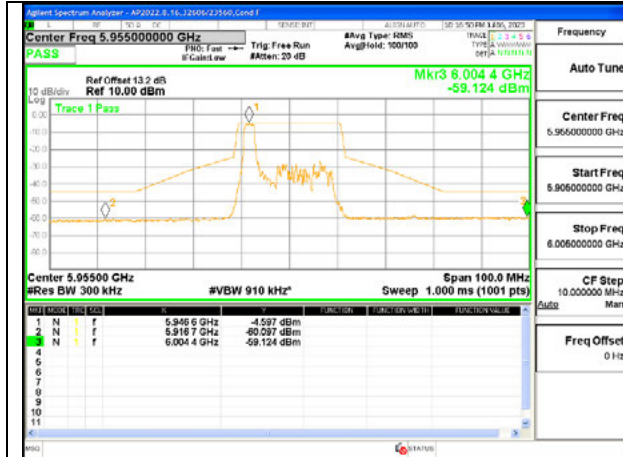


MID CHANNEL 6175

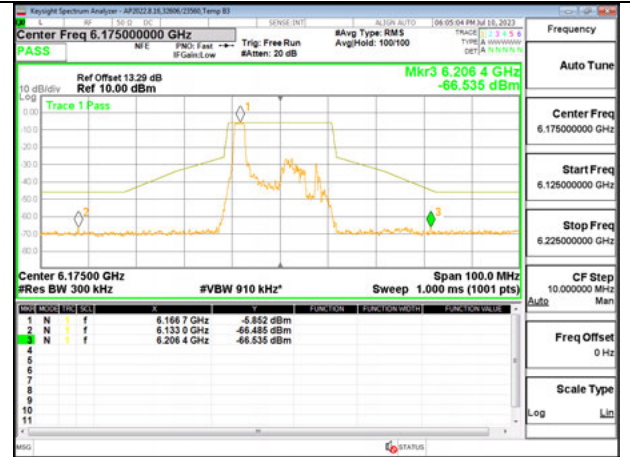


HIGH CHANNEL 6415

Antenna 5: 26-Tones, RU Index 0



LOW CHANNEL 5955

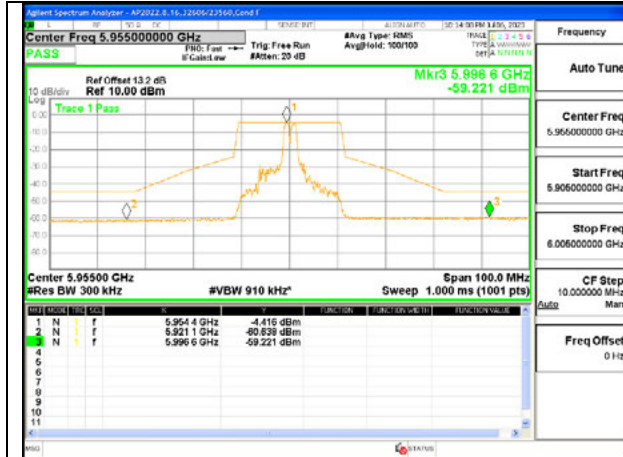


MID CHANNEL 6175



HIGH CHANNEL 6415

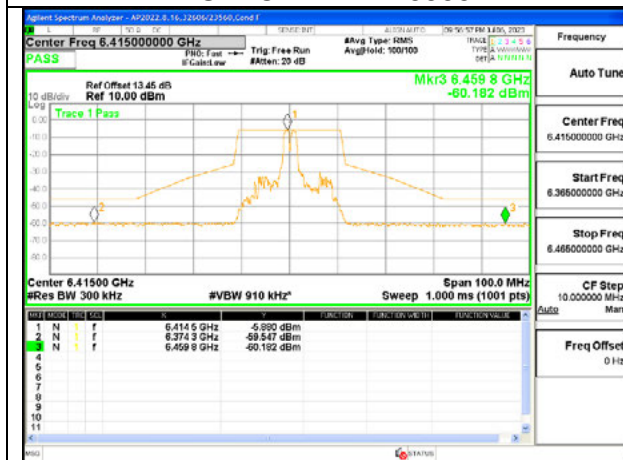
Antenna 5: 26-Tones, RU Index 4



LOW CHANNEL 5955

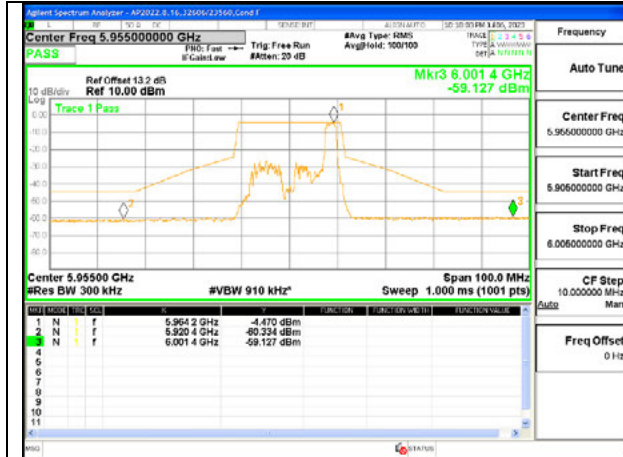


MID CHANNEL 6175

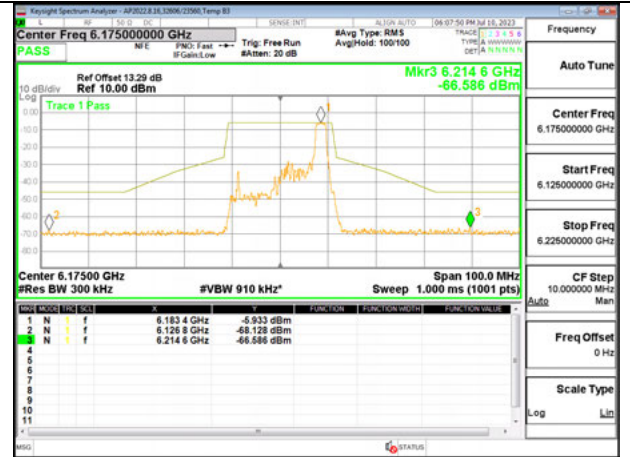


HIGH CHANNEL 6415

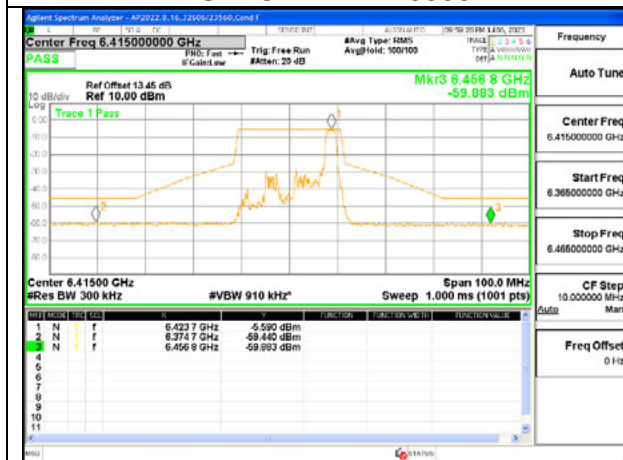
Antenna 5: 26-Tones, RU Index 8



LOW CHANNEL 5955

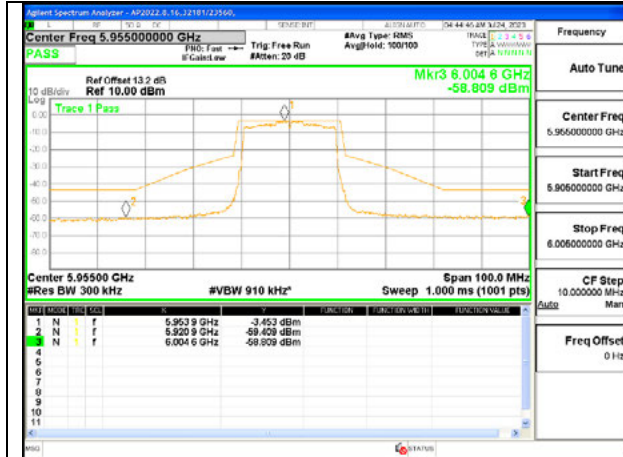


MID CHANNEL 6175



HIGH CHANNEL 6415

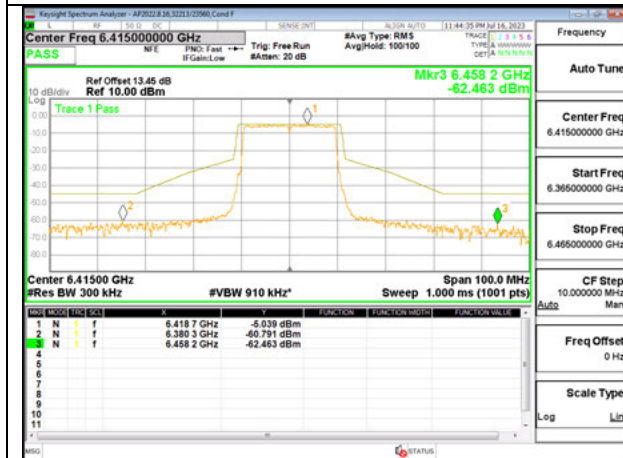
Antenna 5: SU MODE



LOW CHANNEL 5955

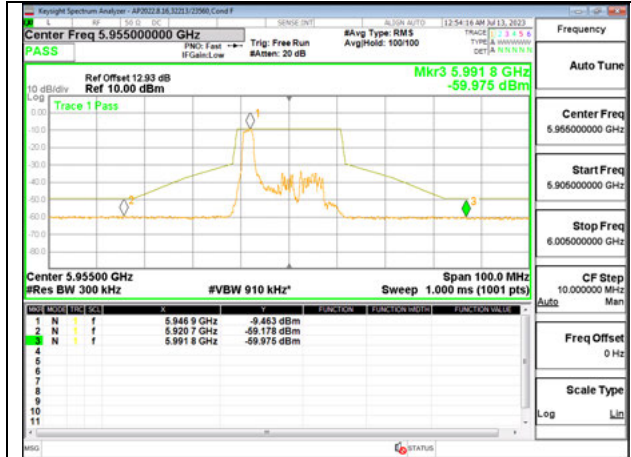


MID CHANNEL 6175



HIGH CHANNEL 6415

Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 0



LOW CHANNEL ANT 6 5955



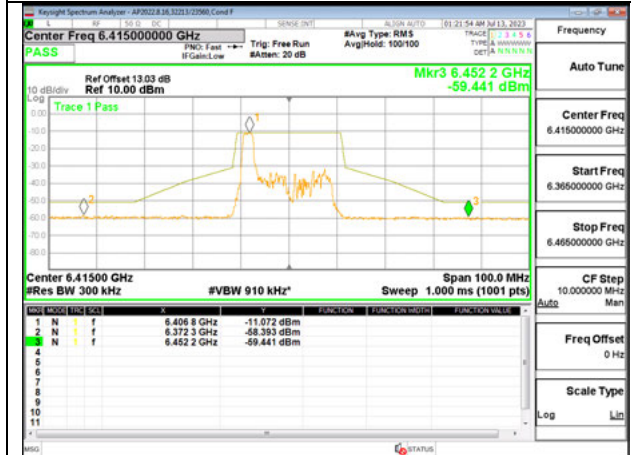
LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

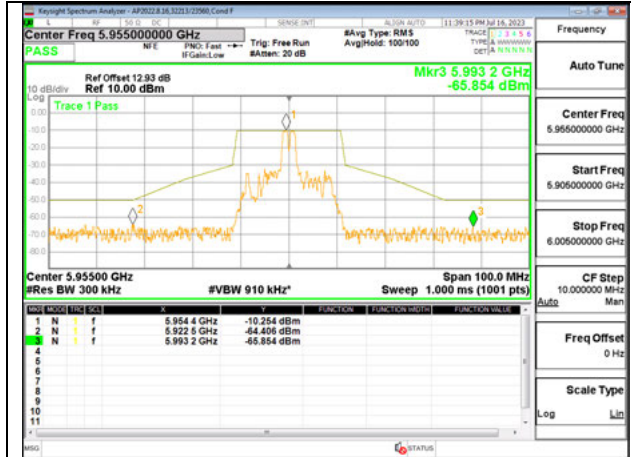


HIGH CHANNEL ANT 6 6415

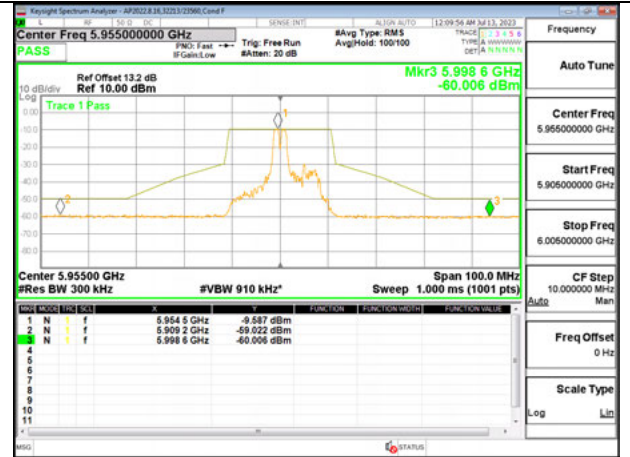


HIGH CHANNEL ANT 5 6415

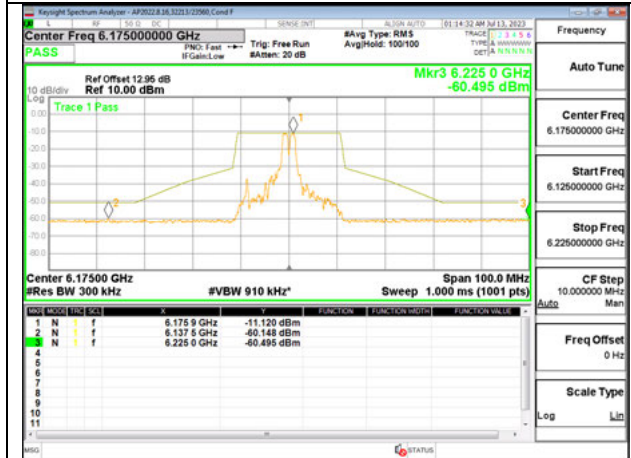
Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 4



LOW CHANNEL ANT 6 5955



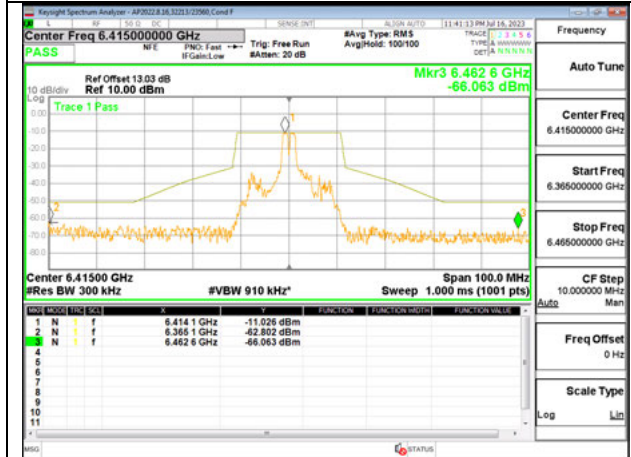
LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

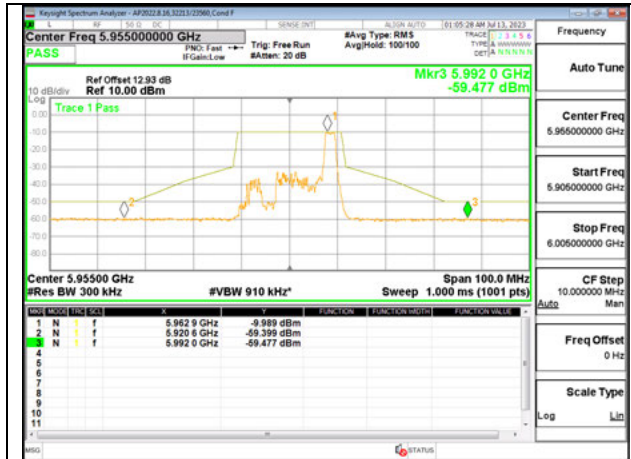


HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

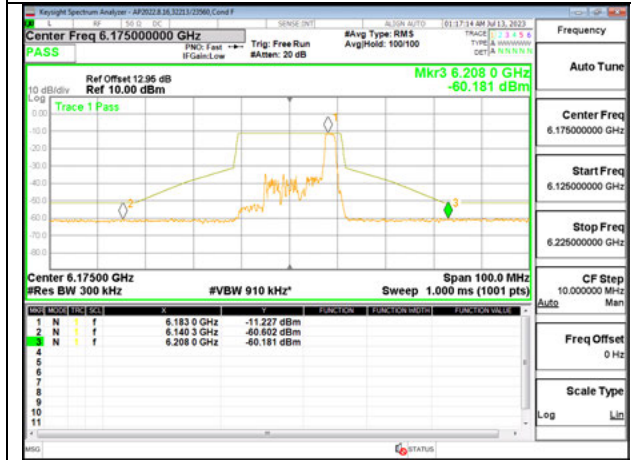
Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 8



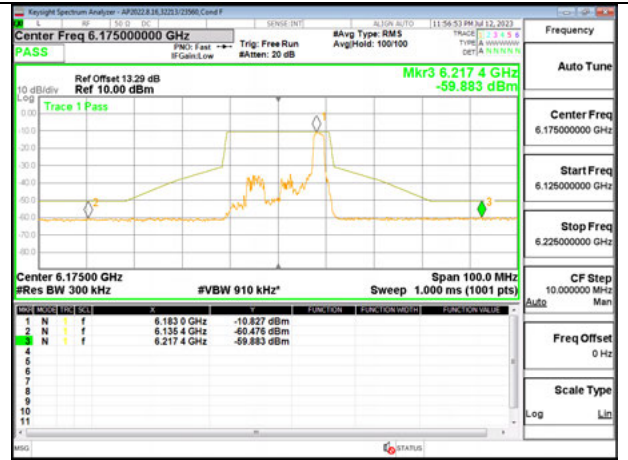
LOW CHANNEL ANT 6 5955



LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415

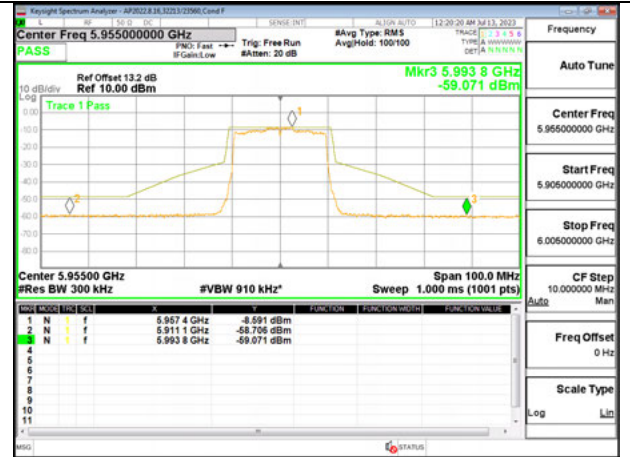


HIGH CHANNEL ANT 5 6415

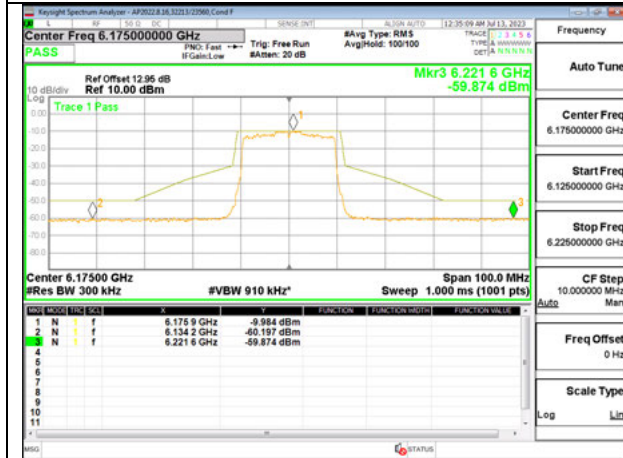
Antenna 6 + Antenna 5 OFDMA MODE: SU MODE



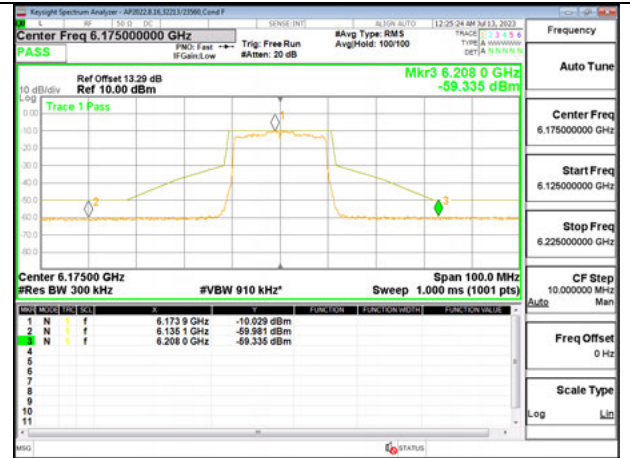
LOW CHANNEL ANT 6 5955



LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

2TX Antenna 6 + Antenna 5 SDM MODE - 26-Tones, RU Index 0



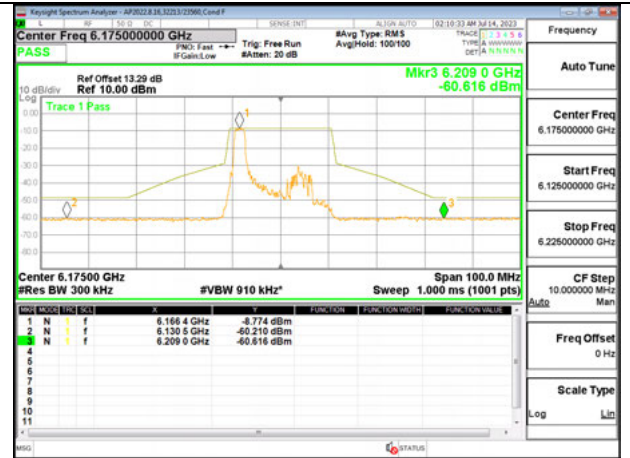
LOW CHANNEL ANT 6 5955



LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

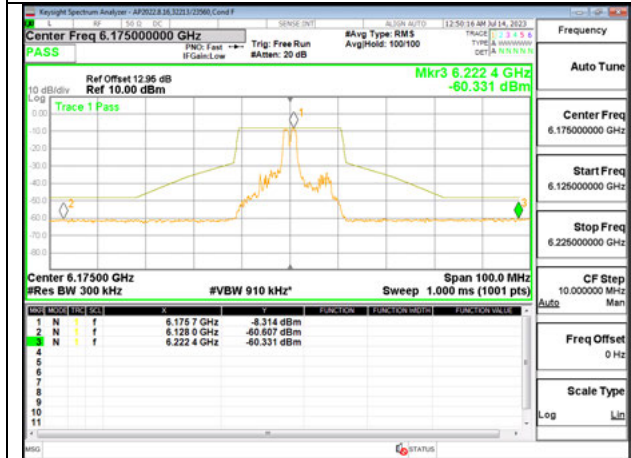
2TX Antenna 6 + Antenna 5 SDM MODE - 26-Tones, RU Index 4



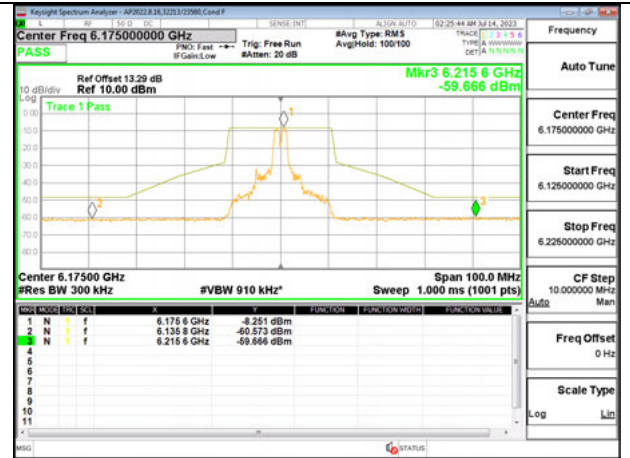
LOW CHANNEL ANT 6 5955



LOW CHANNEL ANT 5 5955



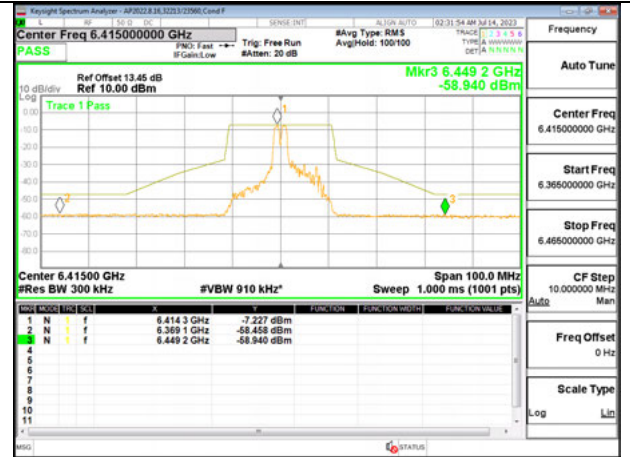
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

2TX Antenna 6 + Antenna 5 SDM MODE - 26-Tones, RU Index 8



LOW CHANNEL ANT 6 5955



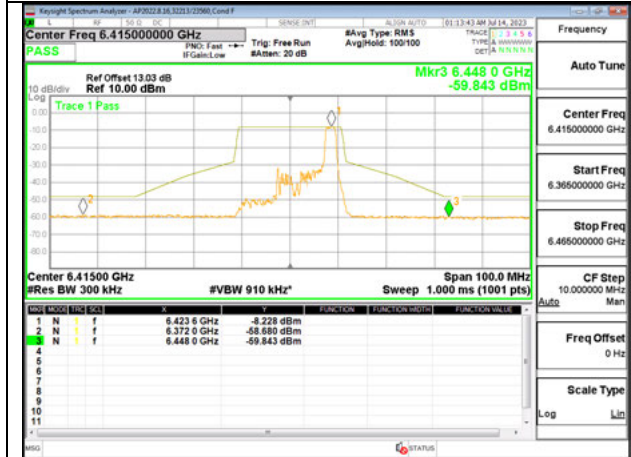
LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

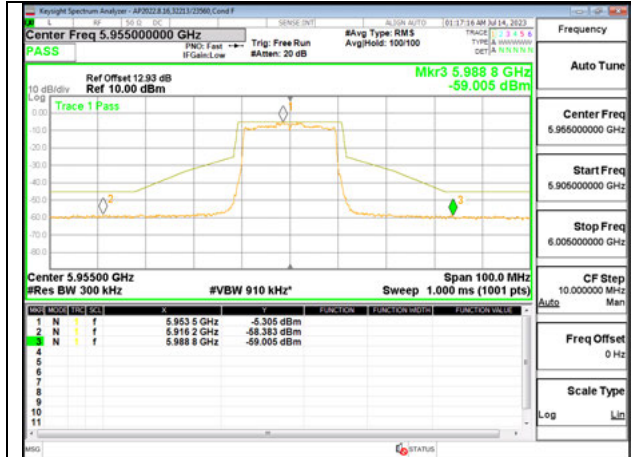


HIGH CHANNEL ANT 6 6415

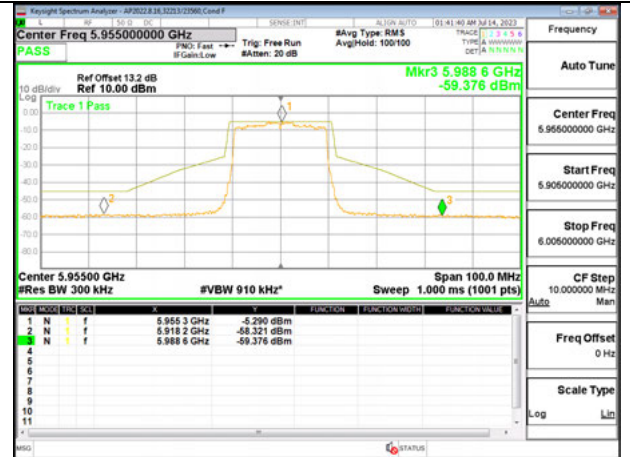


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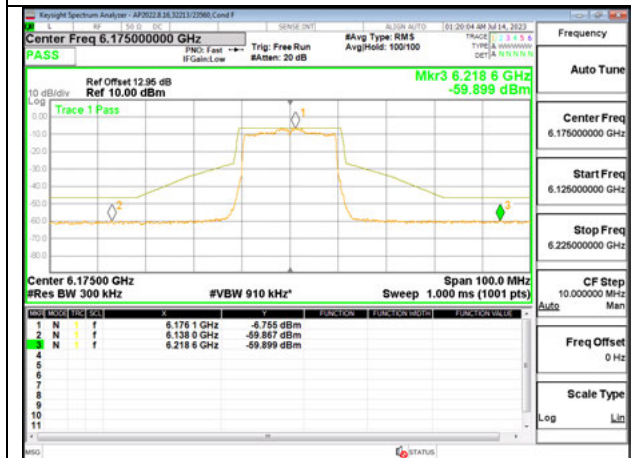
2TX Antenna 6 + Antenna 5 SDM MODE - SU Mode



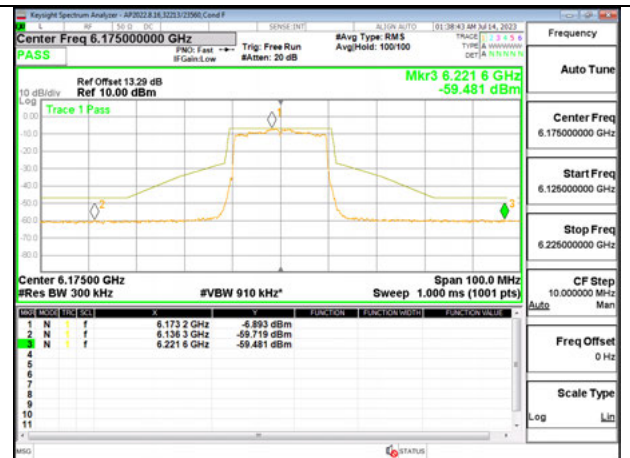
LOW CHANNEL ANT 6 5955



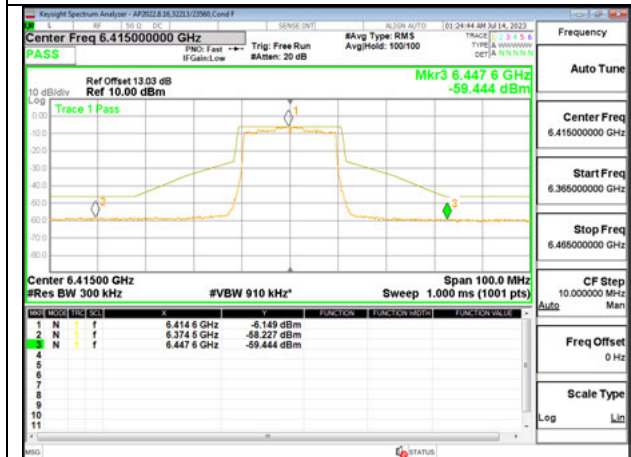
LOW CHANNEL ANT 5 5955



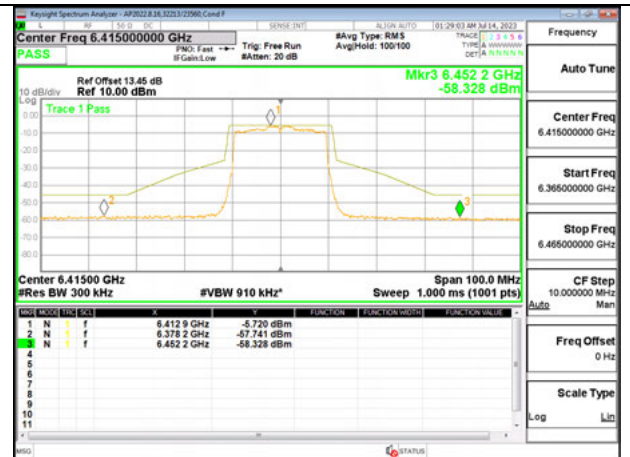
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



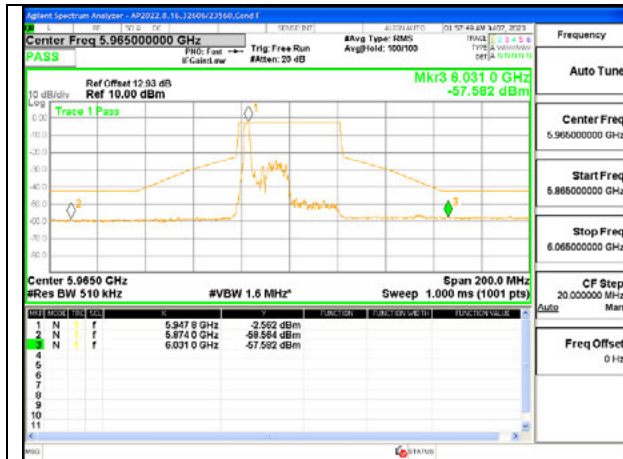
HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

9.5.2. 802.11ax HE40 MODE IN THE UNII-5 BAND

Antenna 6: 26-Tones, RU Index 0



LOW CHANNEL 5965

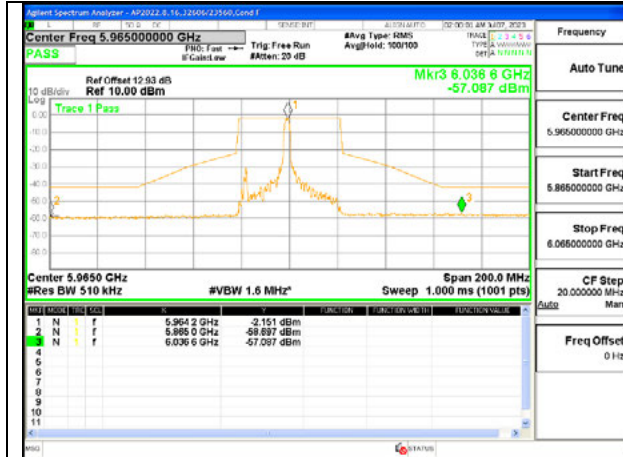


MID CHANNEL 6165

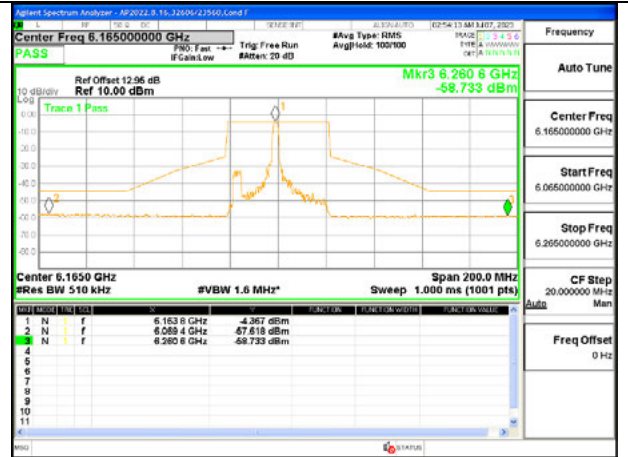


HIGH CHANNEL 6405

Antenna 6: 26-Tones, RU Index 8



LOW CHANNEL 5965

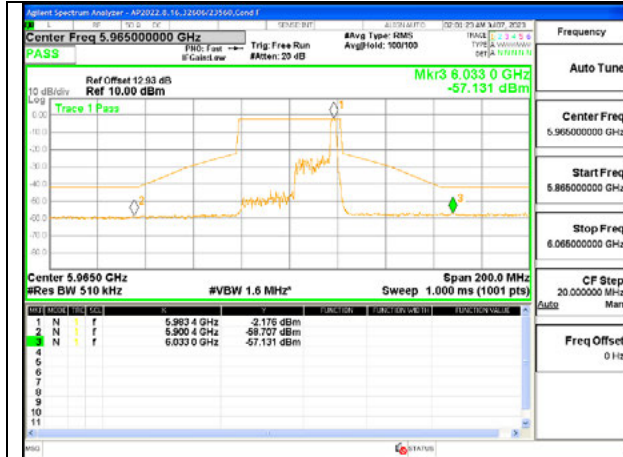


MID CHANNEL 6165



HIGH CHANNEL 6405

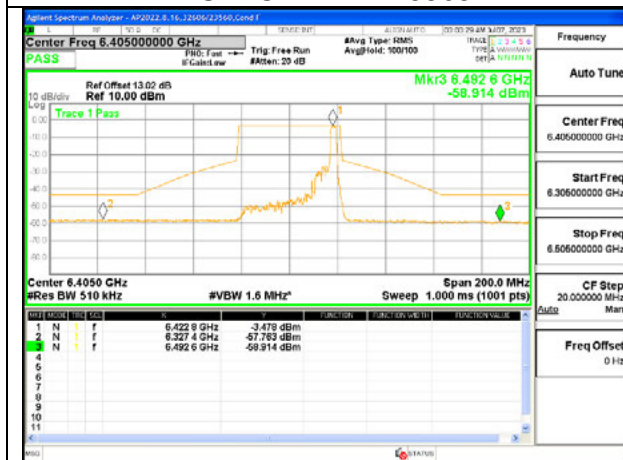
Antenna 6: 26-Tones, RU Index 17



LOW CHANNEL 5965

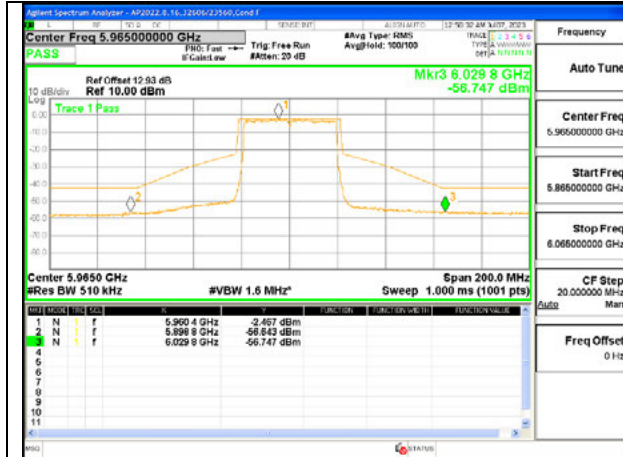


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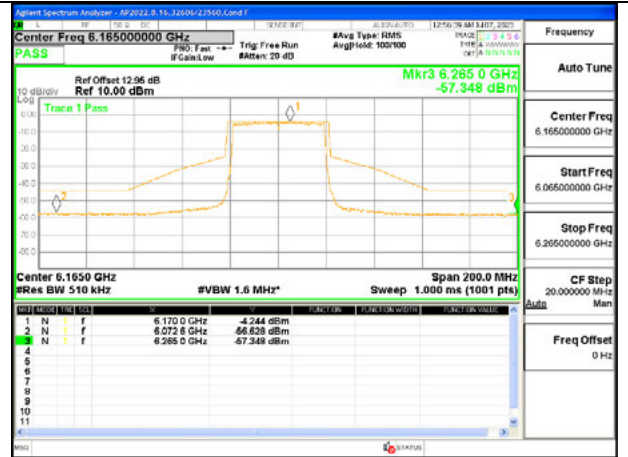


HIGH CHANNEL 6405

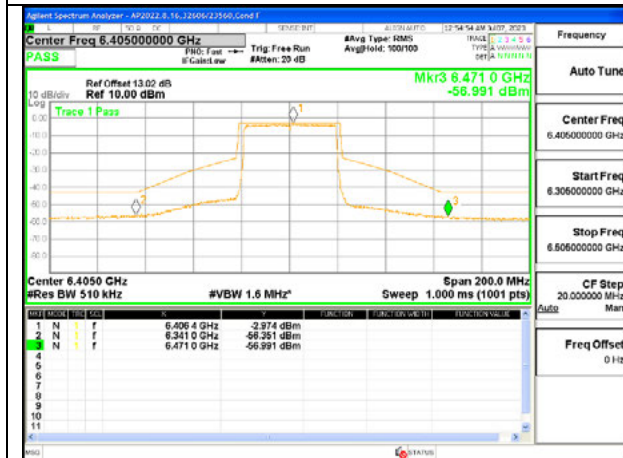
Antenna 6: SU MODE



LOW CHANNEL 5965



MID CHANNEL 6165



HIGH CHANNEL 6405

Antenna 5: 26-Tones, RU Index 0



LOW CHANNEL 5965

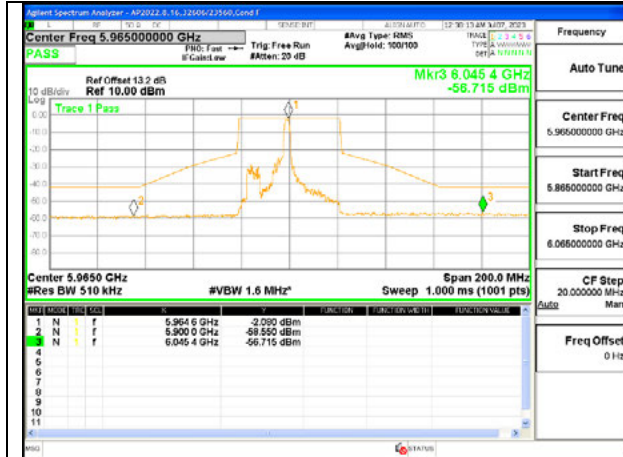


MID CHANNEL 6165



HIGH CHANNEL 6405

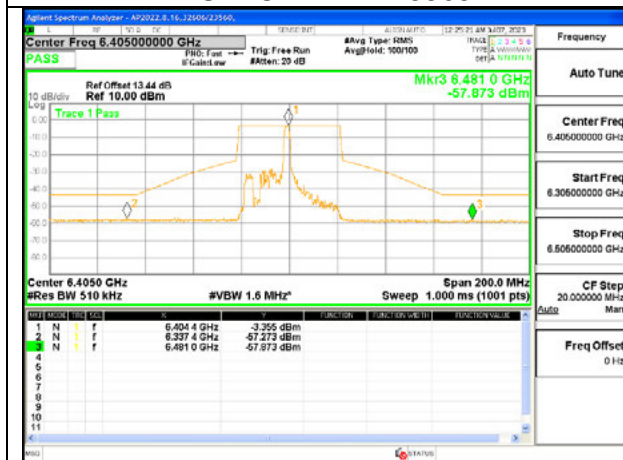
Antenna 5: 26-Tones, RU Index 8



LOW CHANNEL 5965



MID CHANNEL 6165

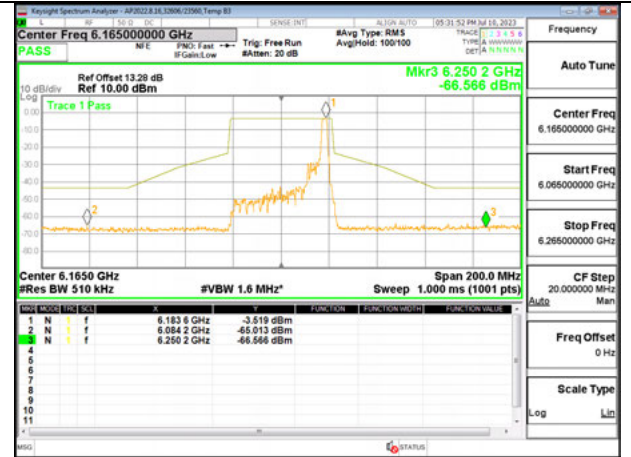


HIGH CHANNEL 6405

Antenna 5: 26-Tones, RU Index 17



LOW CHANNEL 5965

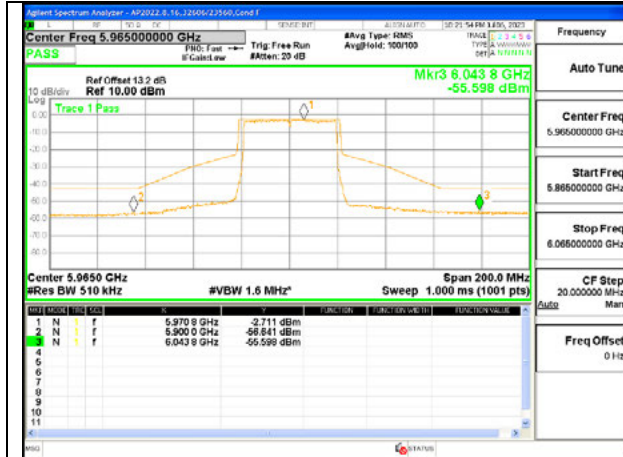


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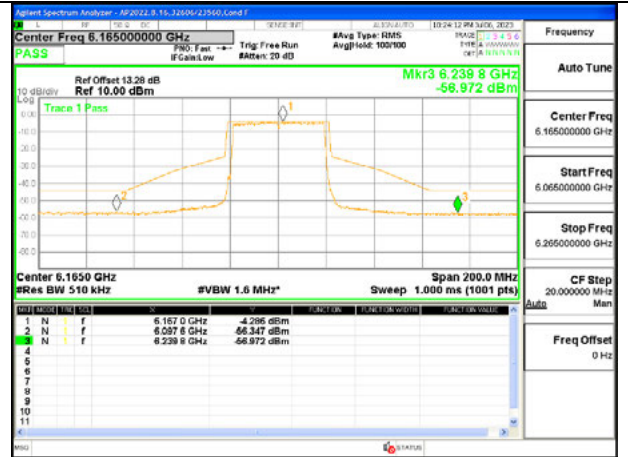


HIGH CHANNEL 6405

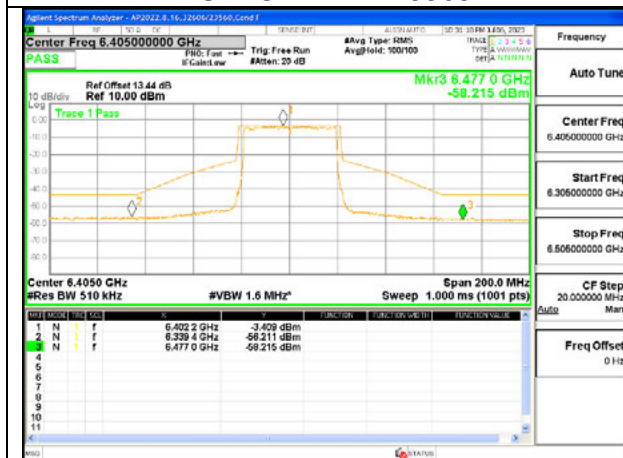
Antenna 5: SU MODE



LOW CHANNEL 5965



MID CHANNEL 6165

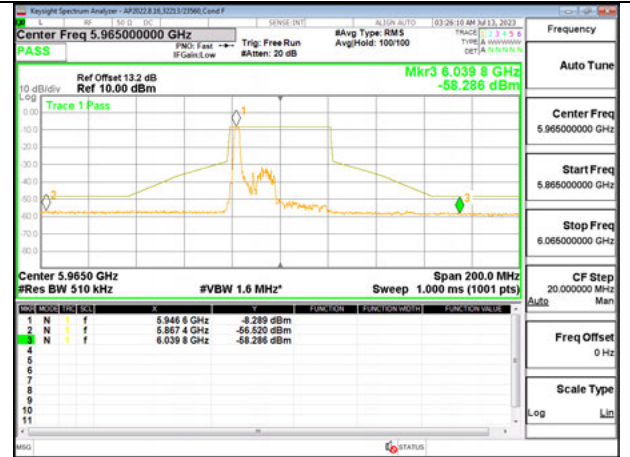


HIGH CHANNEL 6405

Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 0



LOW CHANNEL ANT 6 5965



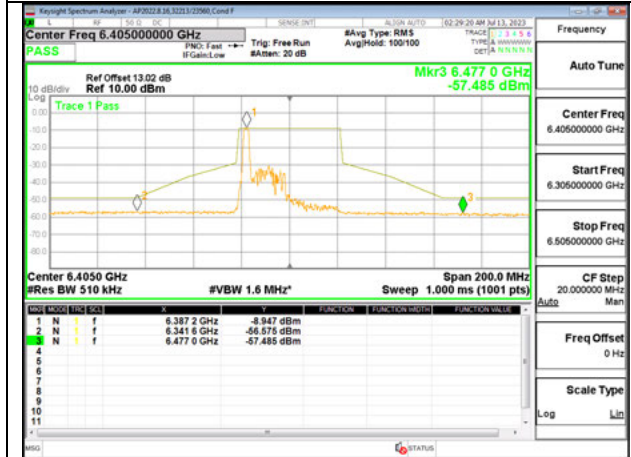
LOW CHANNEL ANT 5 5965



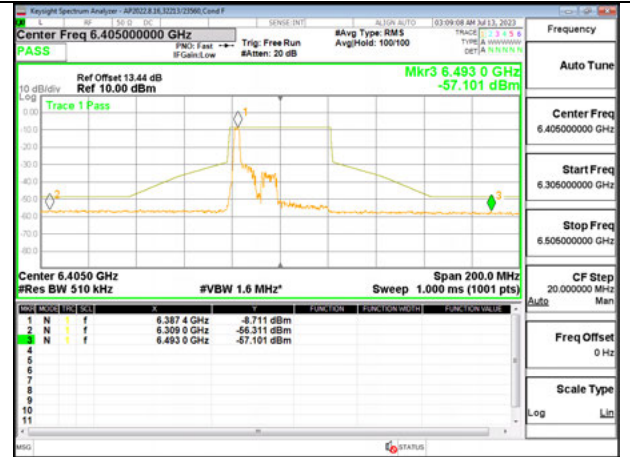
MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165

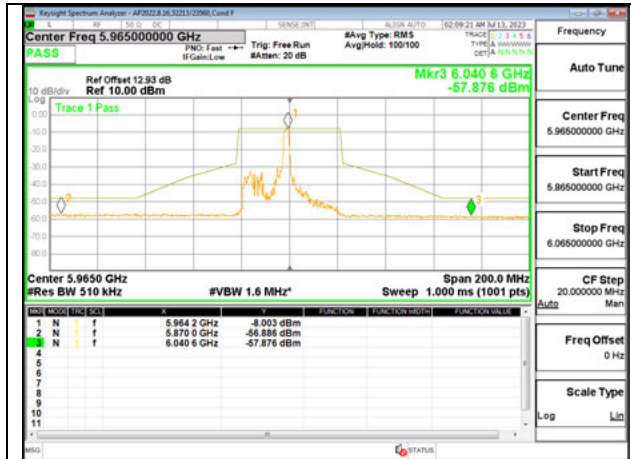


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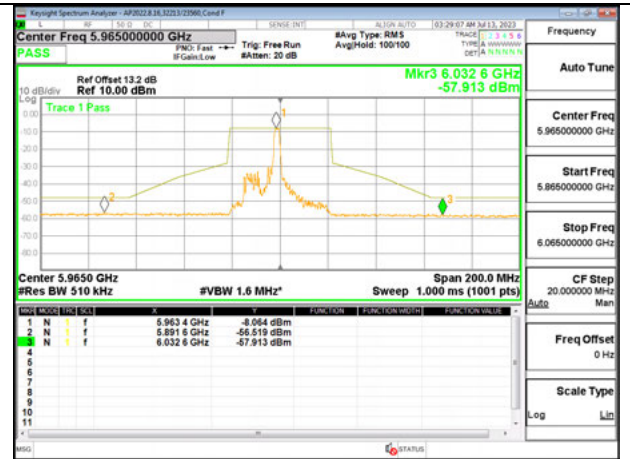


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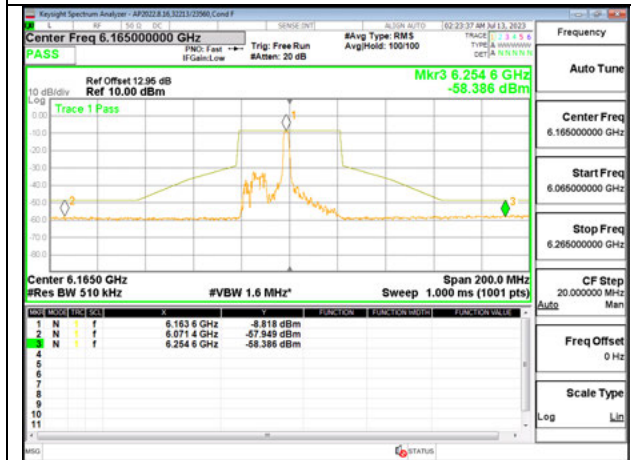
Antenna 6 + ntenna 5 OFDMA MODE: 26-Tones, RU Index 8



LOW CHANNEL ANT 6 5965



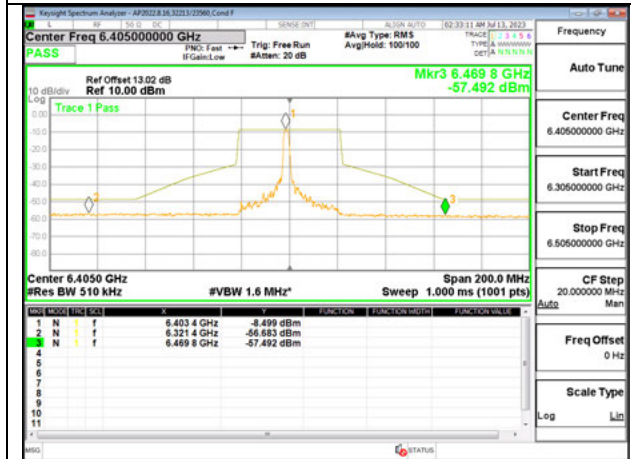
LOW CHANNEL ANT 5 5965



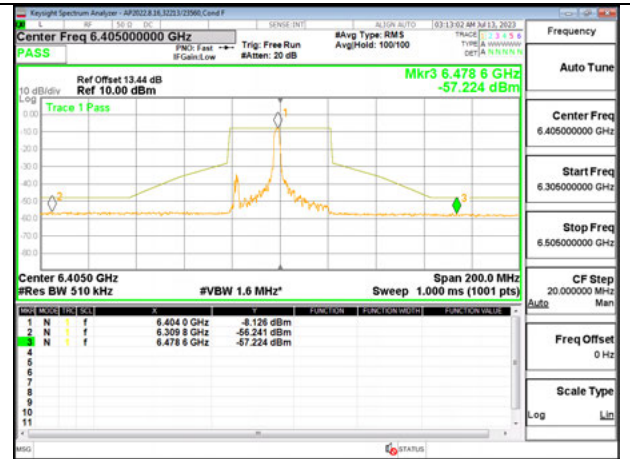
MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165

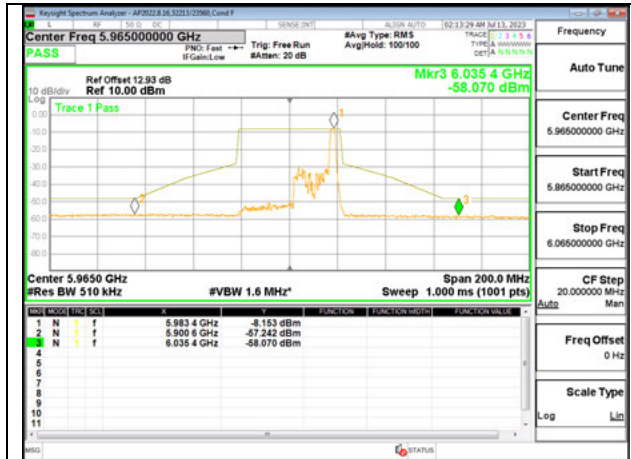


HIGH CHANNEL ANT 6 6405

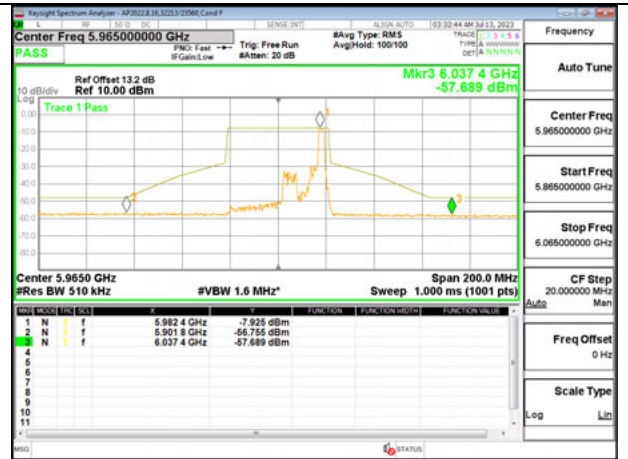


HIGH CHANNEL ANT 5 6405

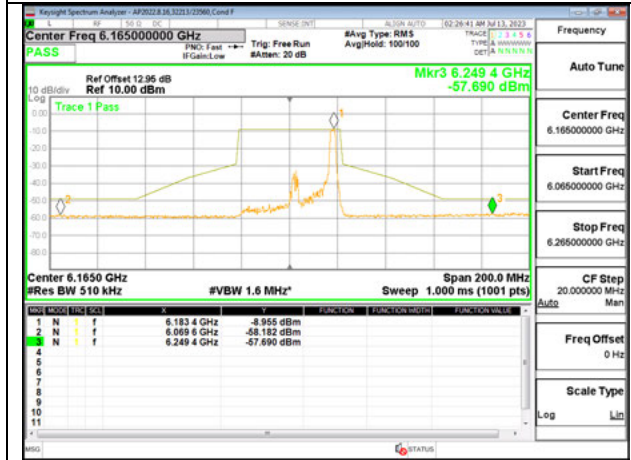
Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 17



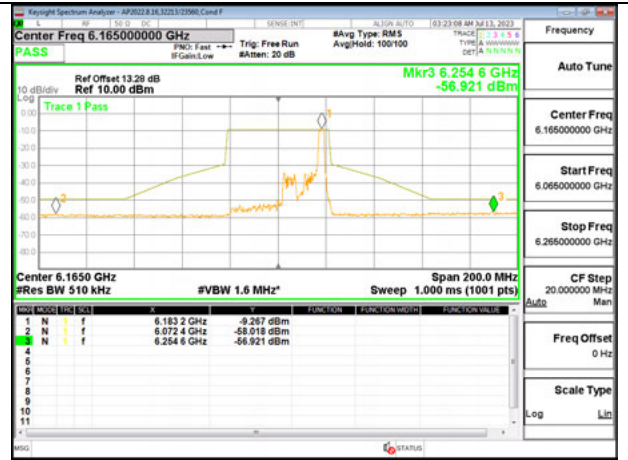
LOW CHANNEL ANT 6 5965



LOW CHANNEL ANT 5 5965



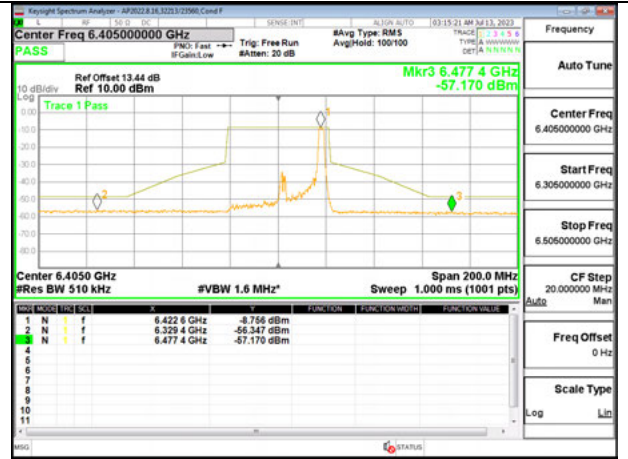
MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165



HIGH CHANNEL ANT 6 6405



HIGH CHANNEL ANT 5 6405