

## 9.8. 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, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only RU26 tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

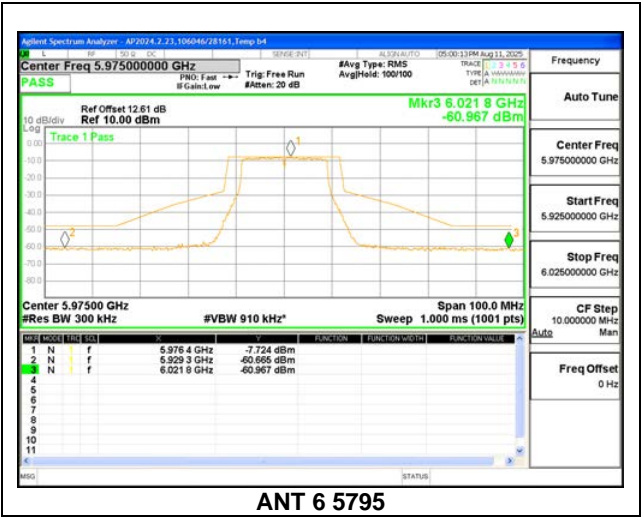
Band	Tones	20MHz (RBW/VBW)	40MHz (RBW/VBW)	80MHz (RBW/VBW)	160MHz (RBW/VBW)
UNII-5/6/7/8	Partial RU	52+26T: 300kHz/910kHz 106T: 300kHz/910kHz 106+26T: 300kHz/910kHz	52T: 510kHz/1.6MHz 52+26T: 510kHz/1.6MHz 106T: 510kHz/1.6MHz 106+26T: 510kHz/1.6MHz	52T: 510kHz/1.6MHz 106T: 510kHz/1.6MHz 106+26T: 510kHz/1.6MHz 484T: 510kHz/1.6MHz	106+26T: 510kHz/1.6MHz 484T: 510kHz/1.6MHz 996T: 1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

### RESULTS

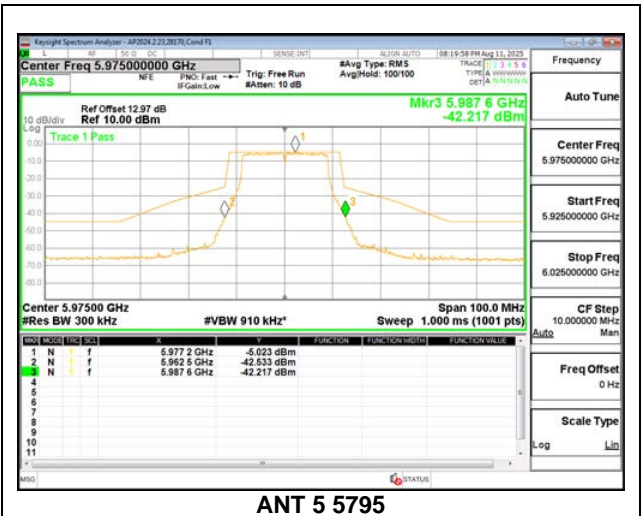
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are the worst case.

9.8.1. 802.11a MODE IN THE UNII-5 BAND

1TX Antenna 6 MODE

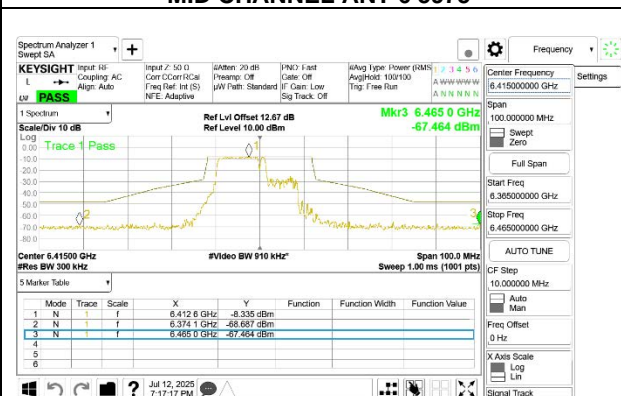
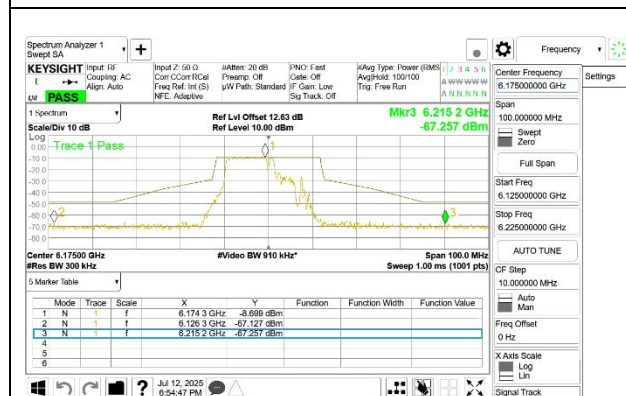
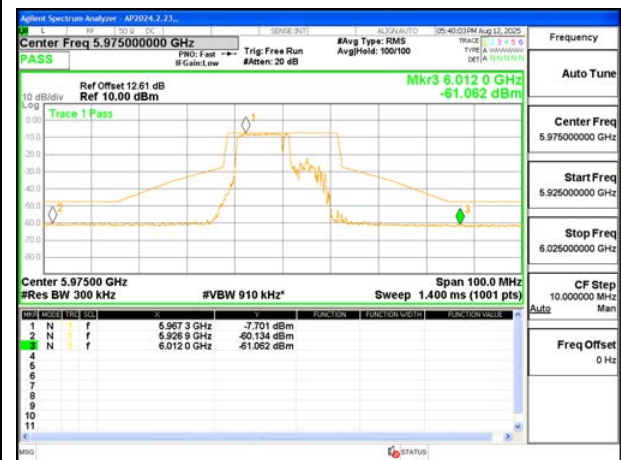
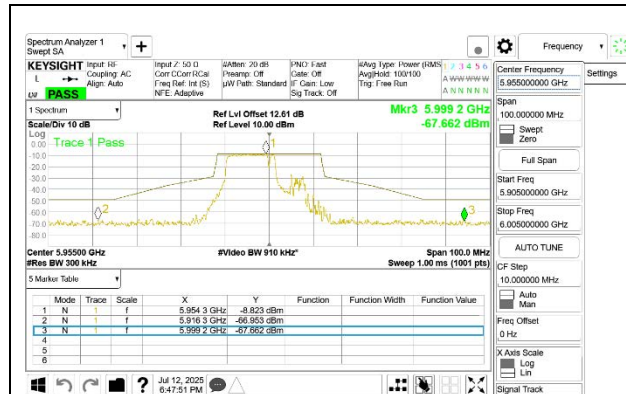


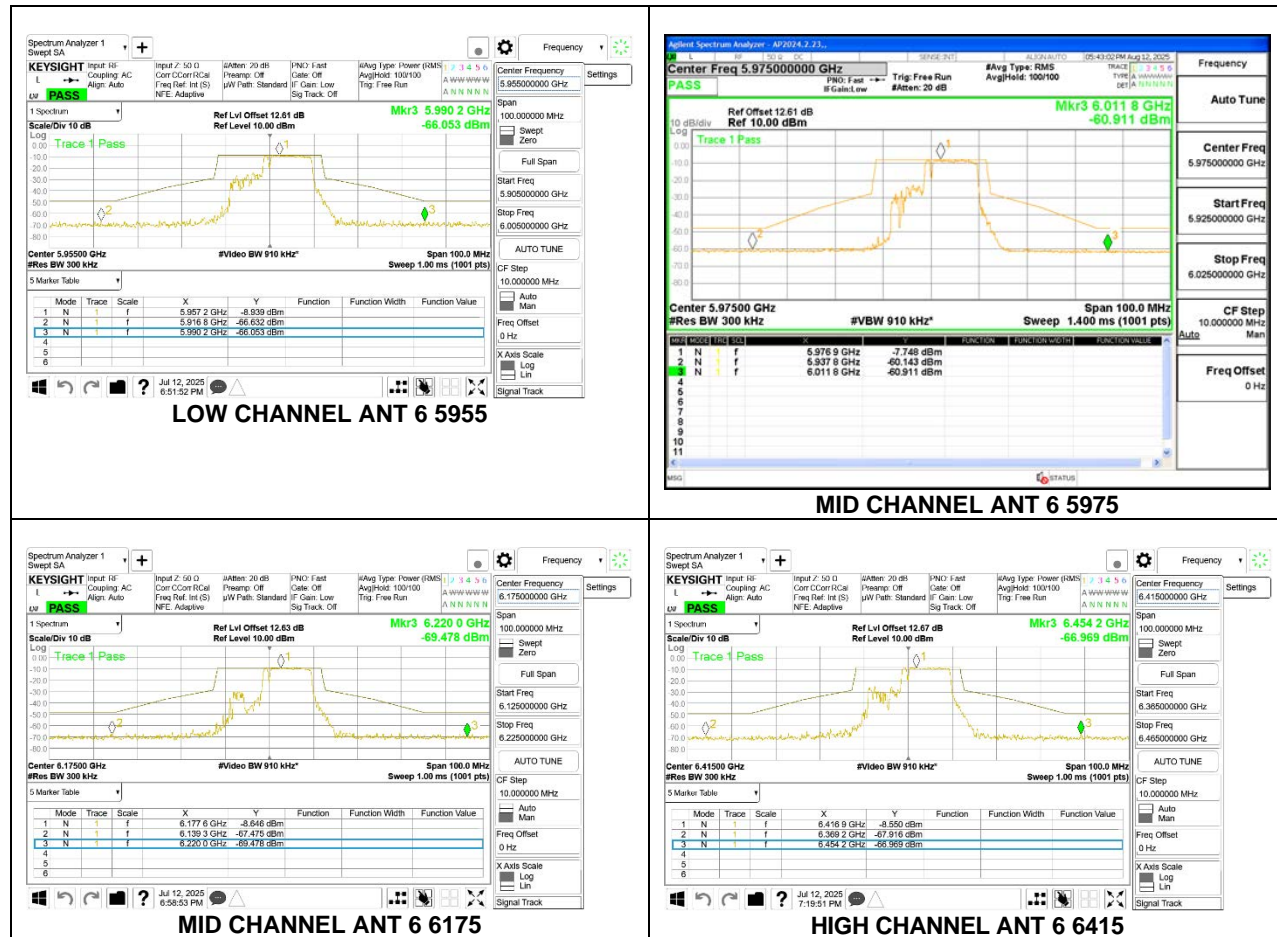
1TX Antenna 5 MODE

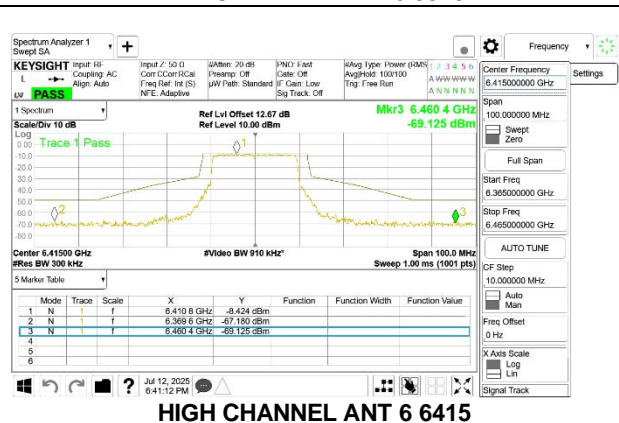
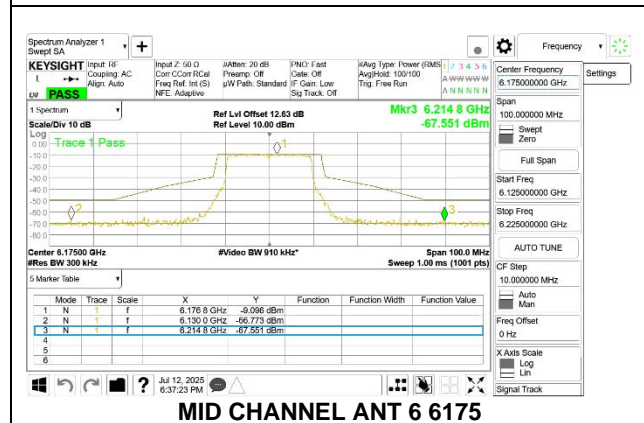
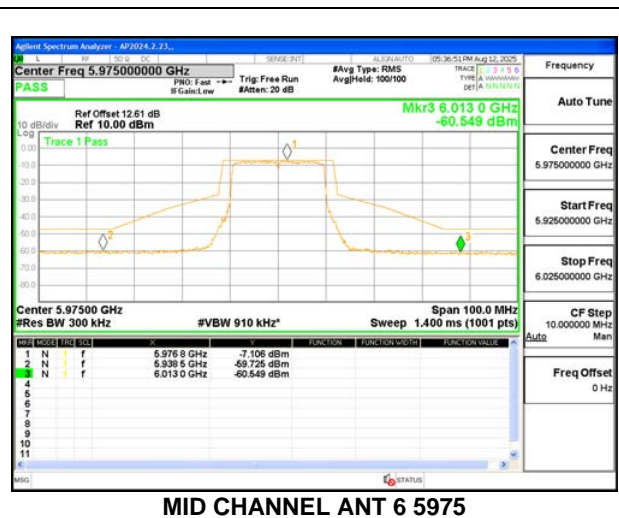
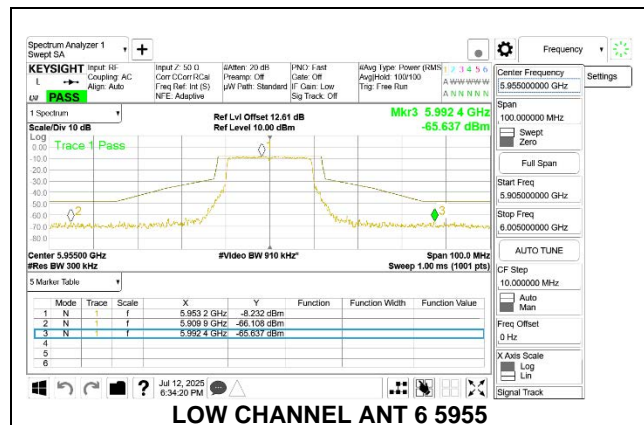


## 9.8.2. 802.11be EHT20 MODE IN THE UNII-5 BAND

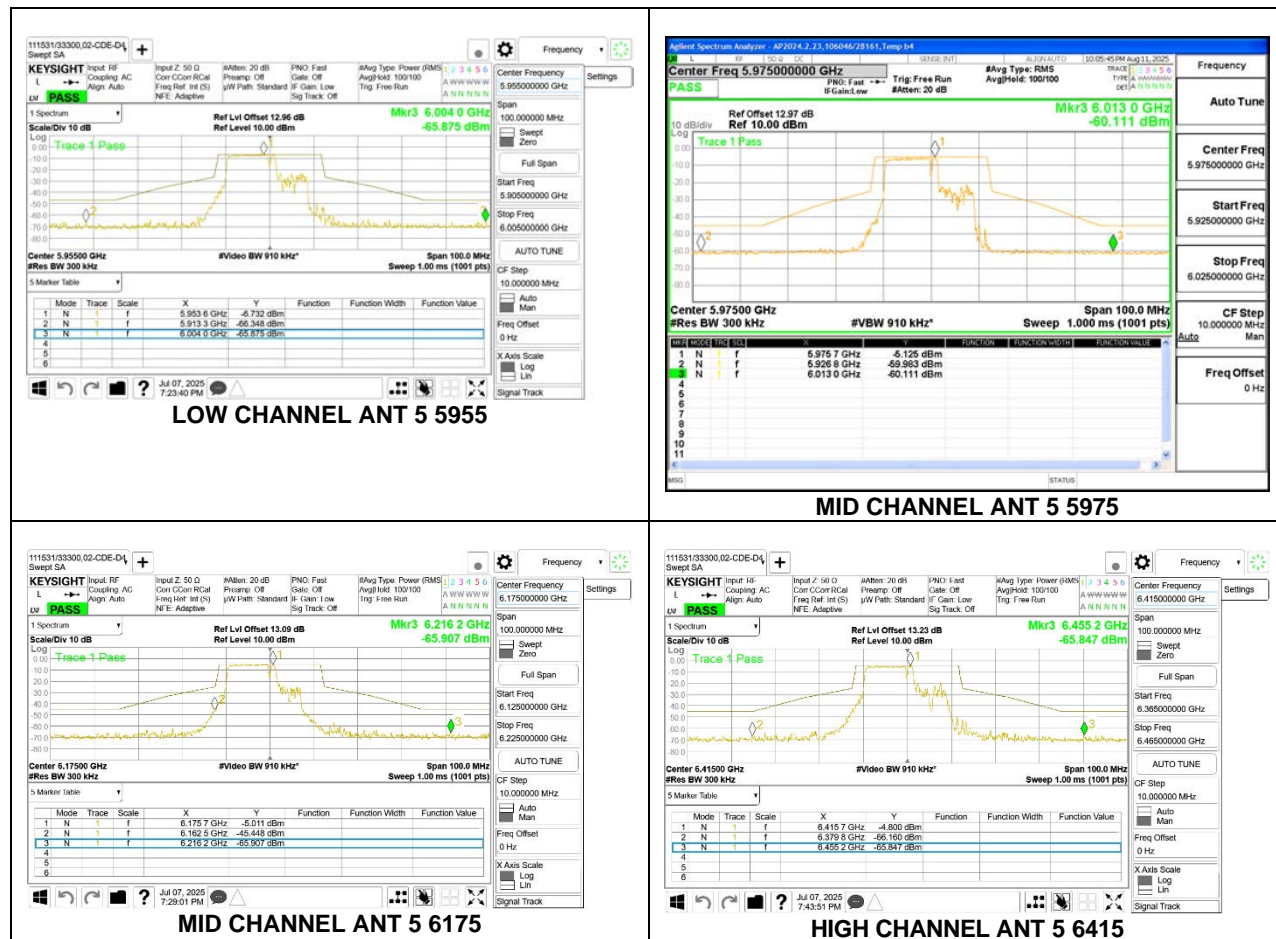
### 1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26 Tone, RU Index 82

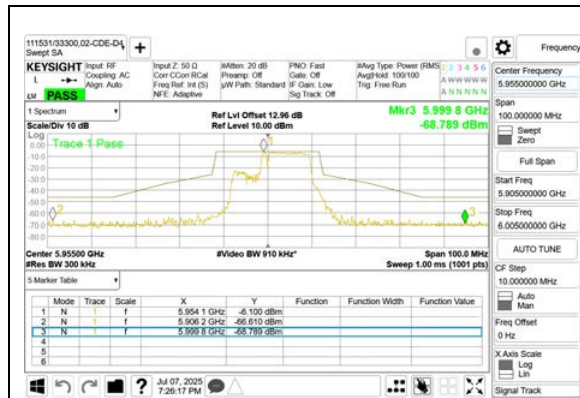
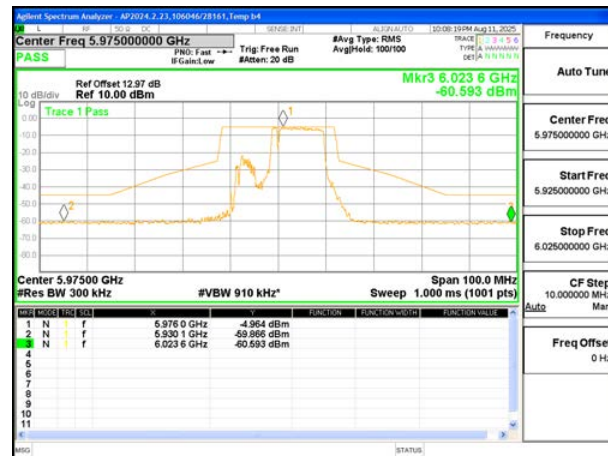
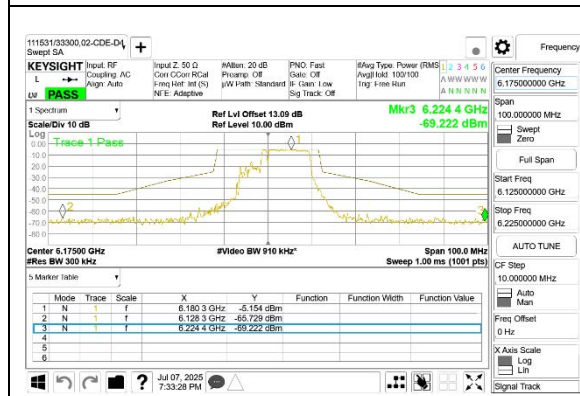
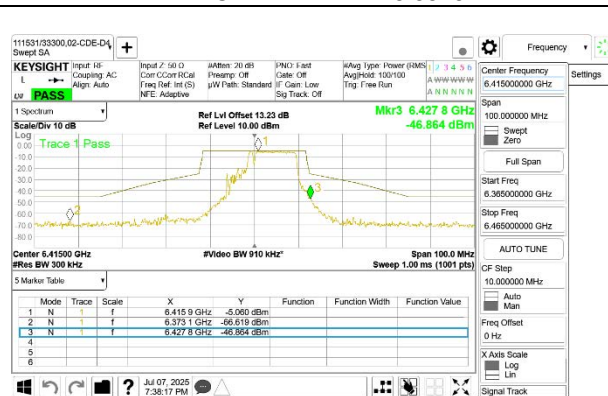


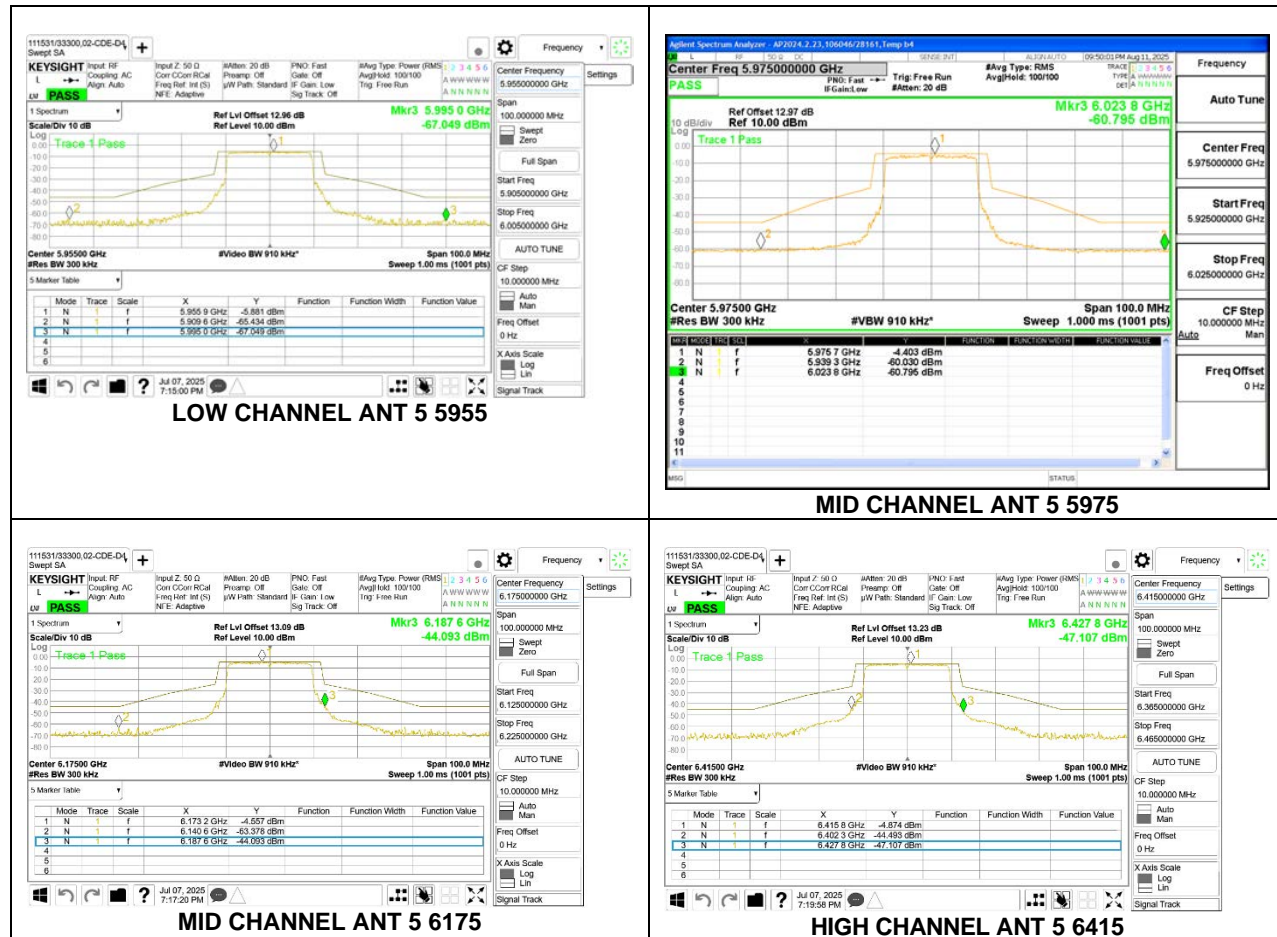
**1TX Antenna 6 MODE (FCC-IC) MOBILE – 106+26 Tone, RU Index 83**

**1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE**

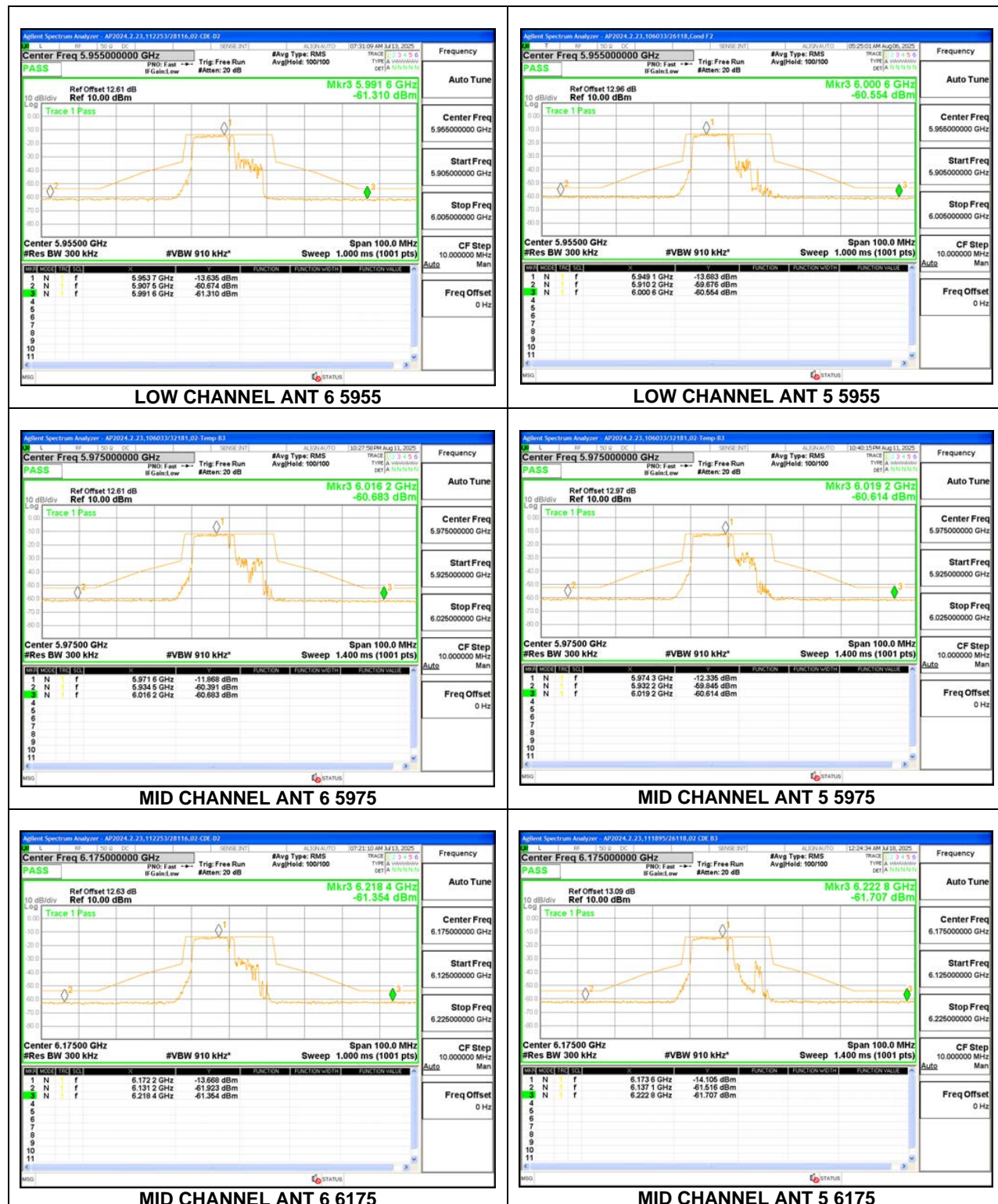


**1TX Antenna 5 MODE (FCC-IC) MOBILE – 106+26 Tone, RU Index 82**

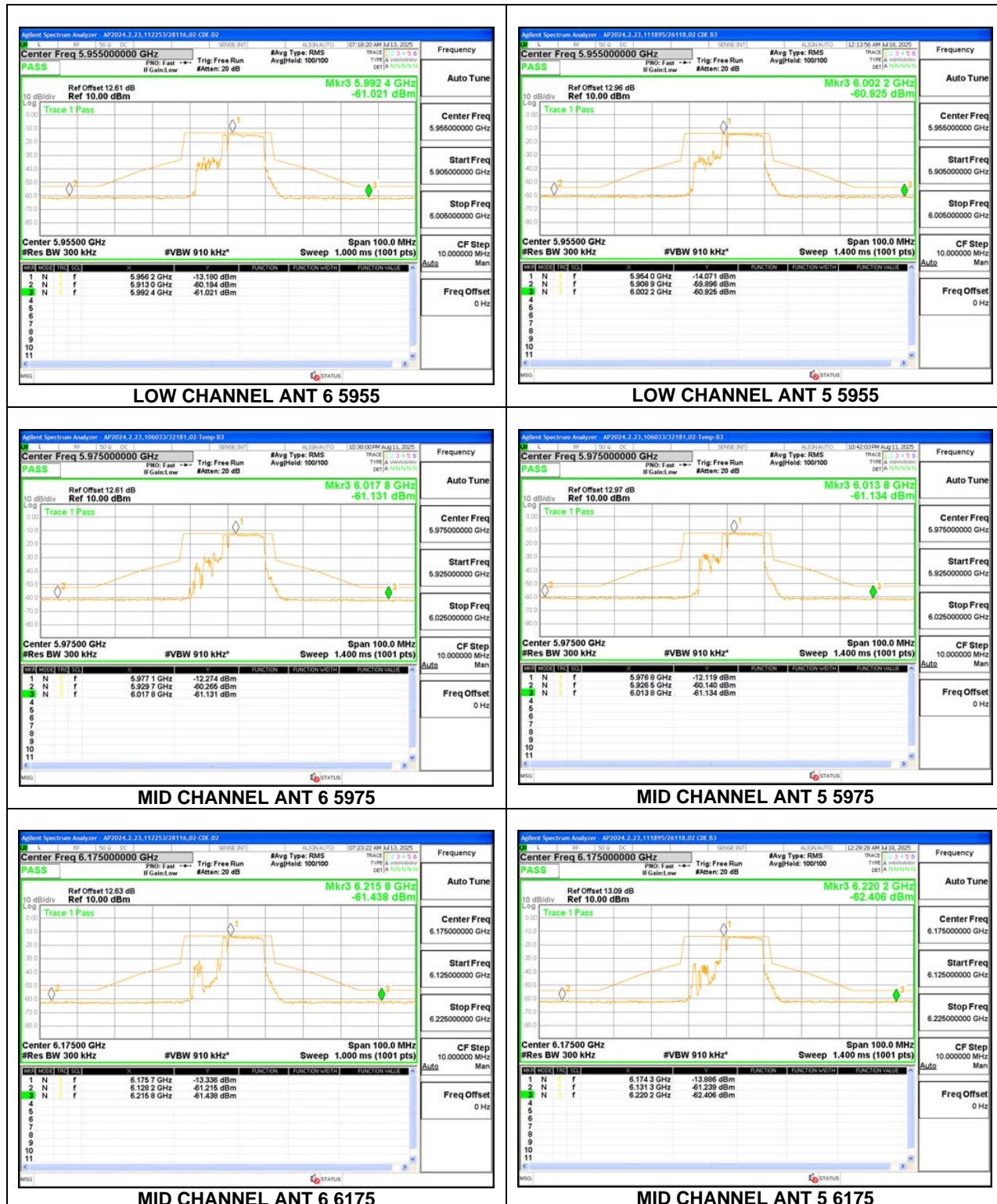
**1TX Antenna 5 MODE (FCC-IC) MOBILE – 106+26 Tone, RU Index 83****LOW CHANNEL ANT 5 5955****MID CHANNEL ANT 5 5975****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 5 6415**

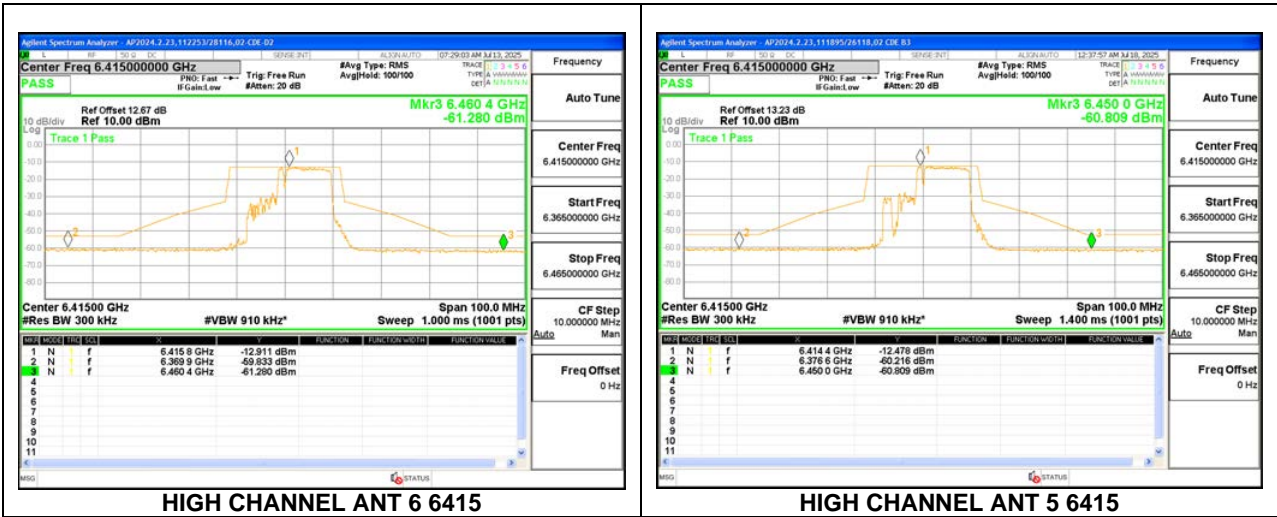
**1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE**



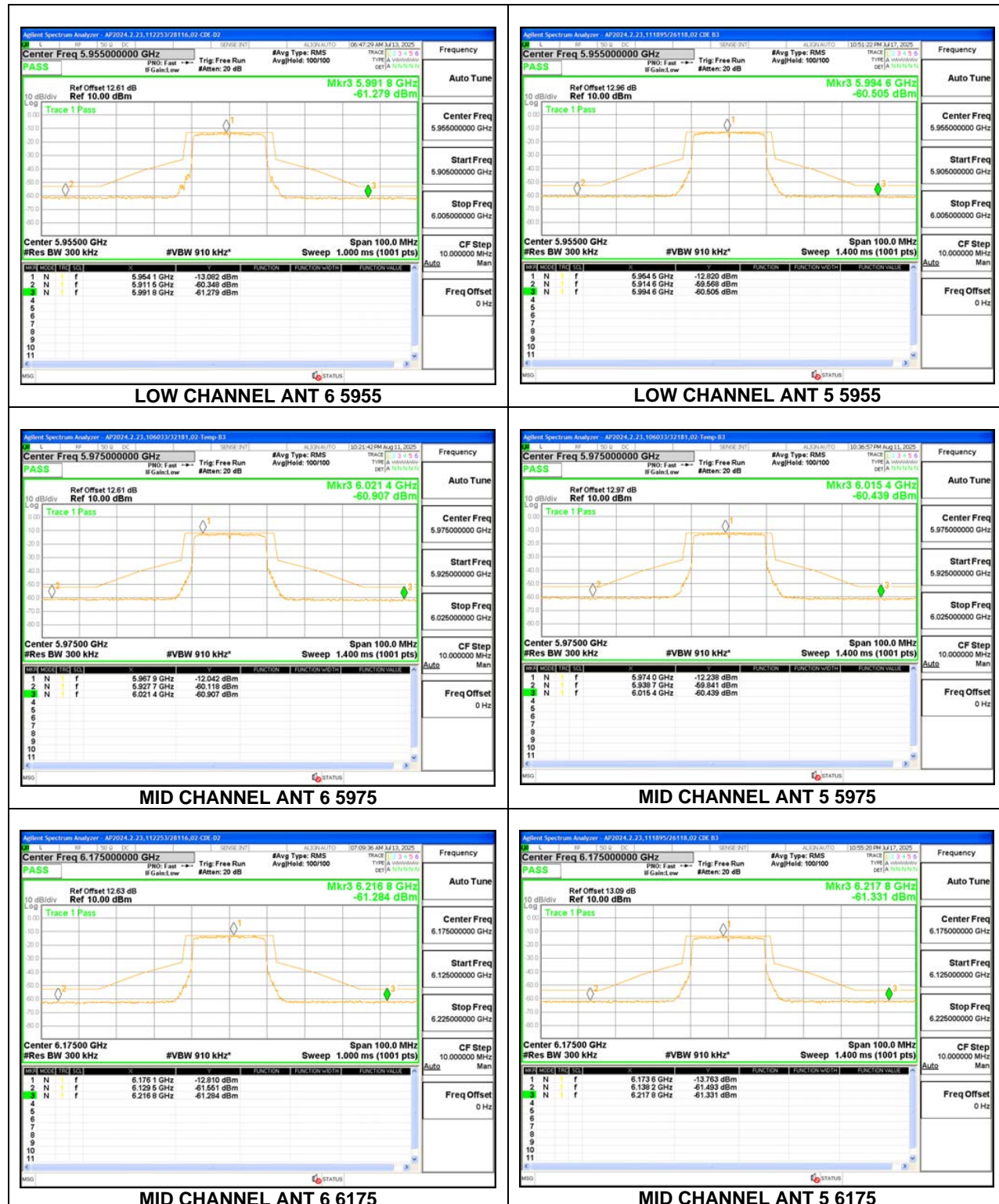
**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 106+26 Tone, RU Index 82**



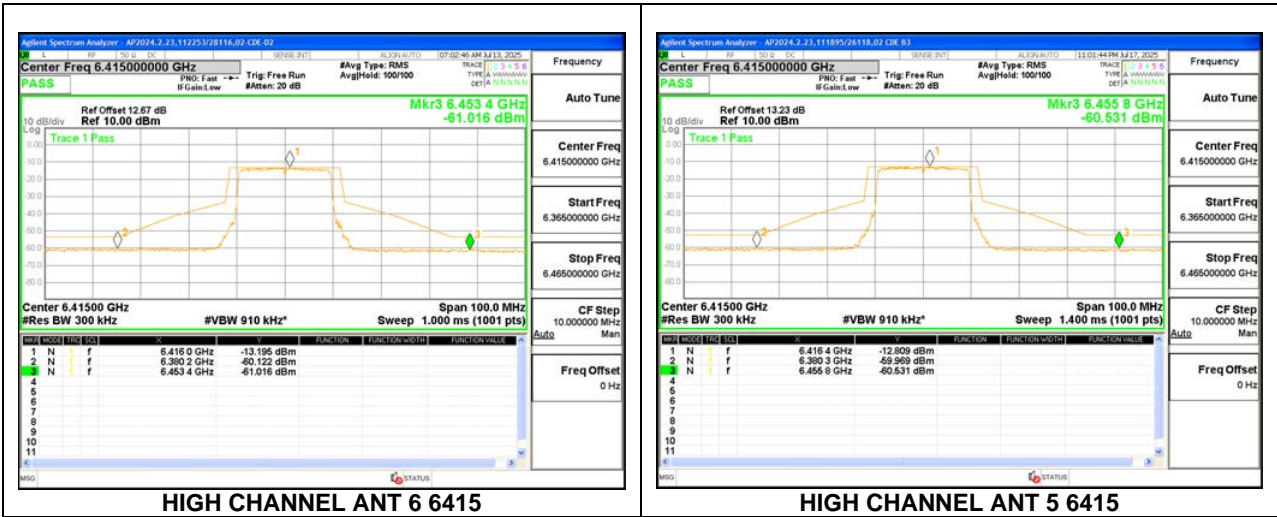
**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 106+26 Tone, RU Index 83**

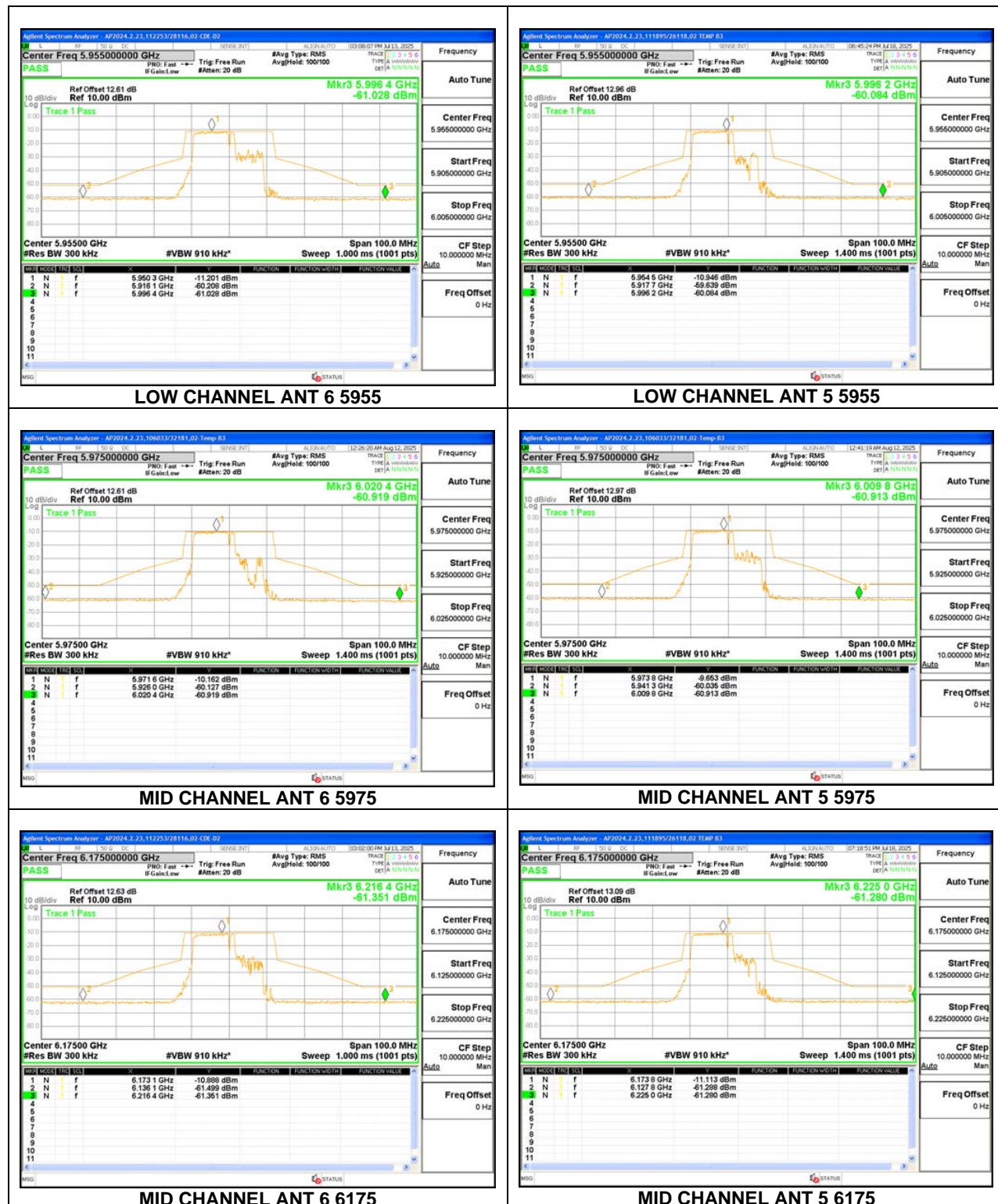


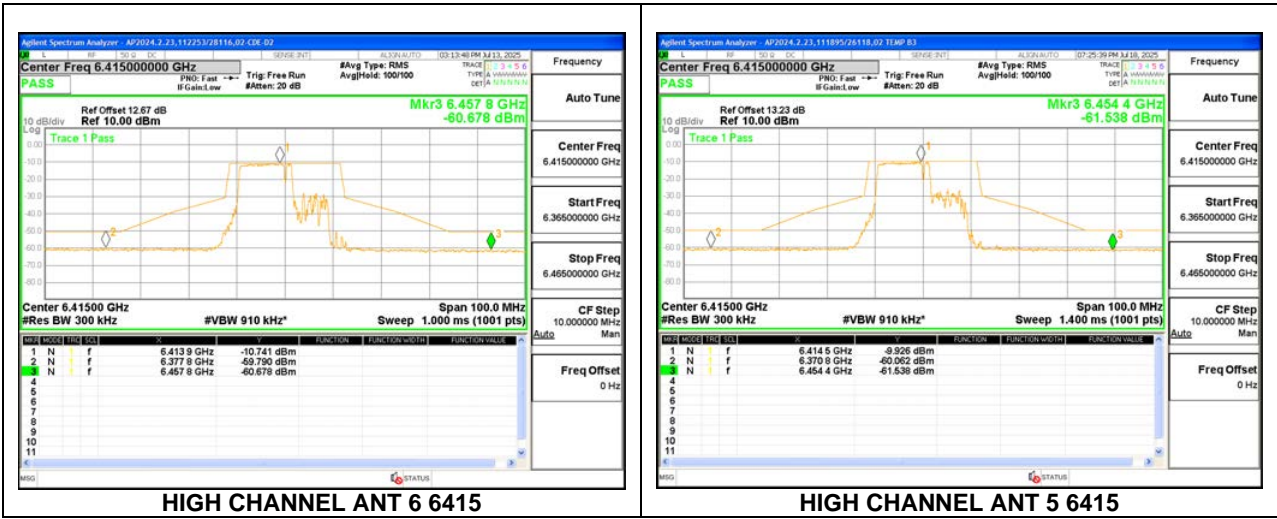


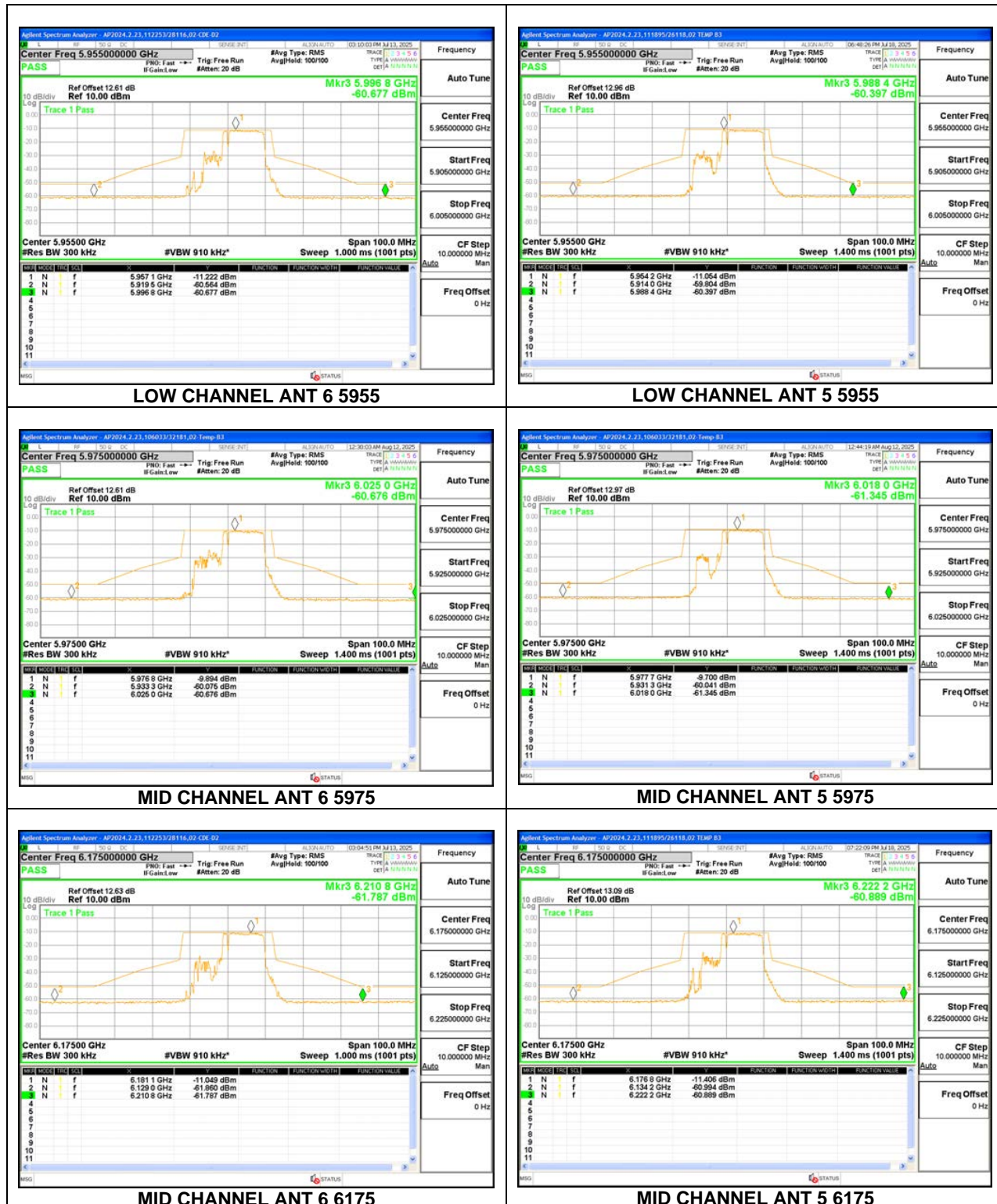
**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – SU MODE**



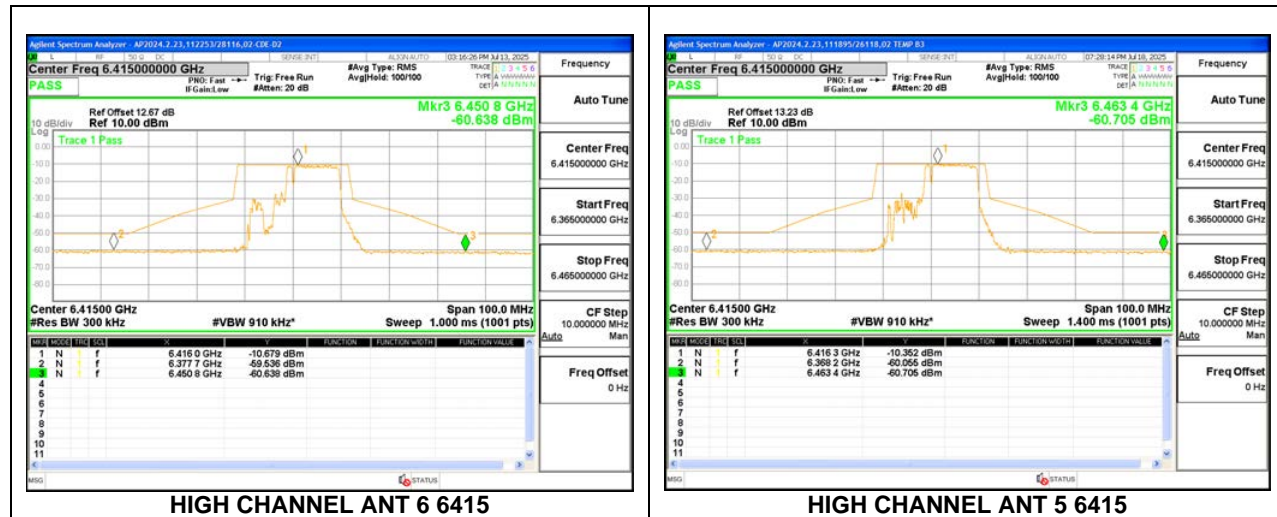


**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 106+26 Tone, RU Index 82**

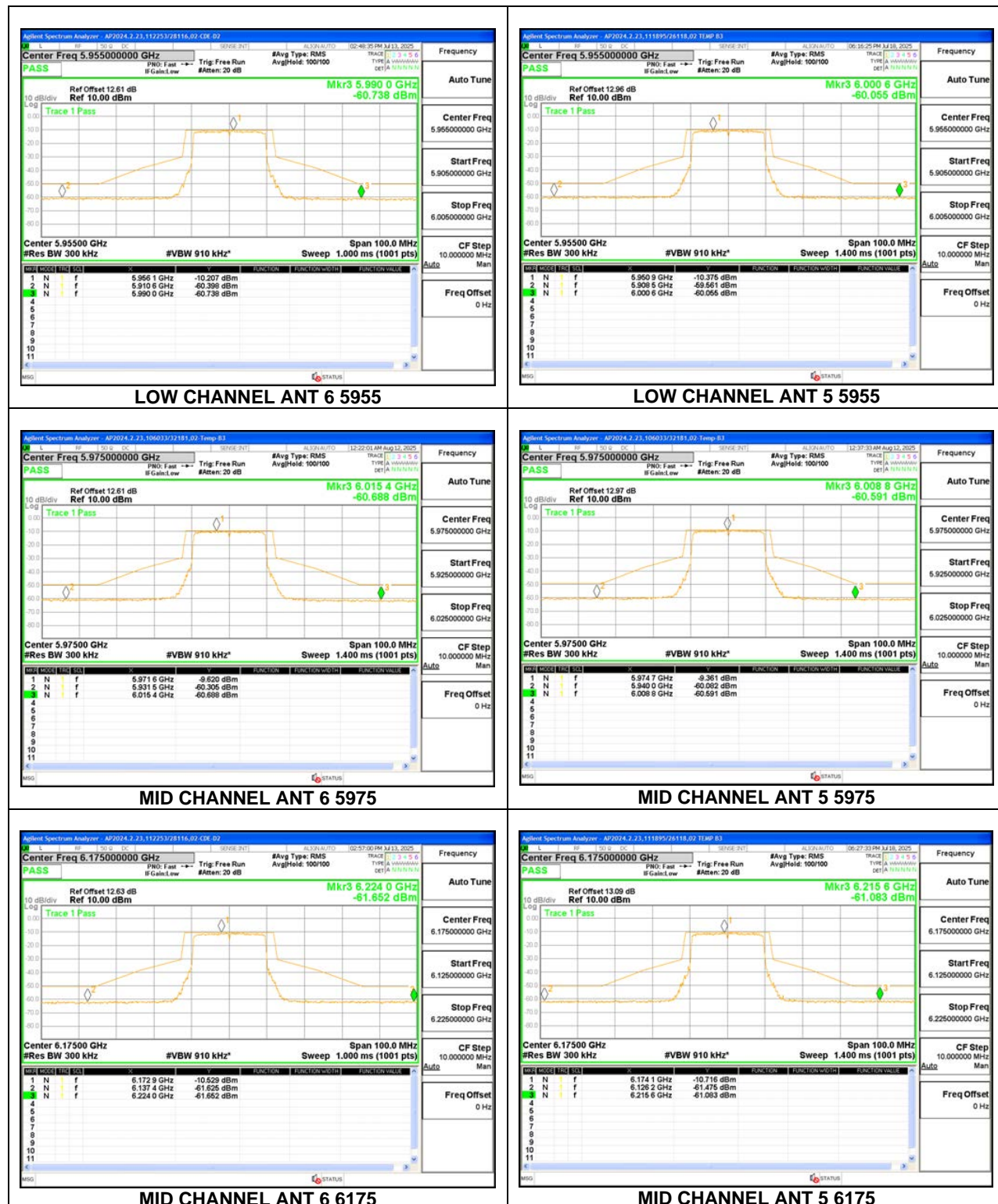


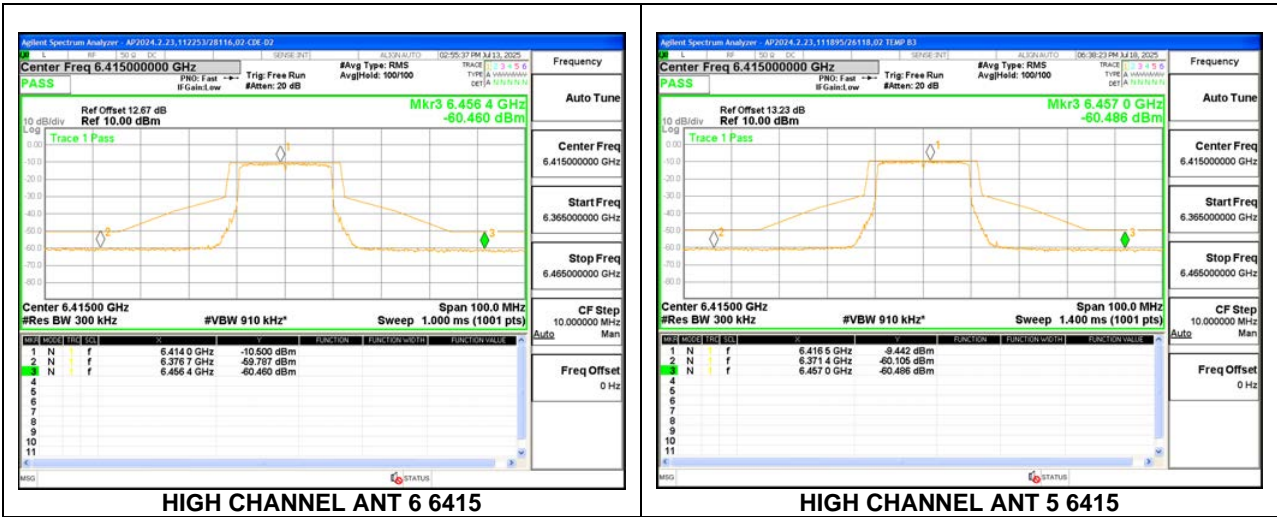
**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 106+26 Tone, RU Index 83**





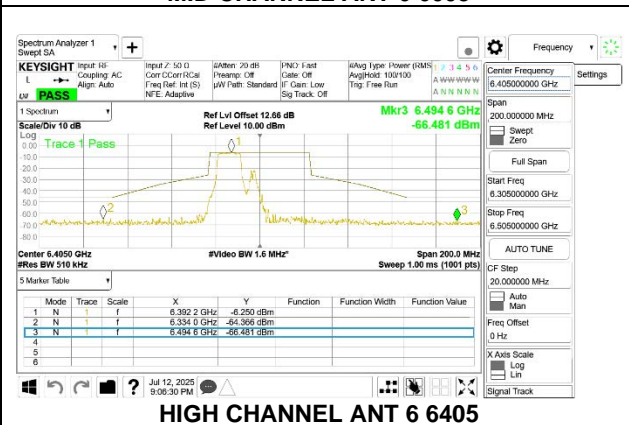
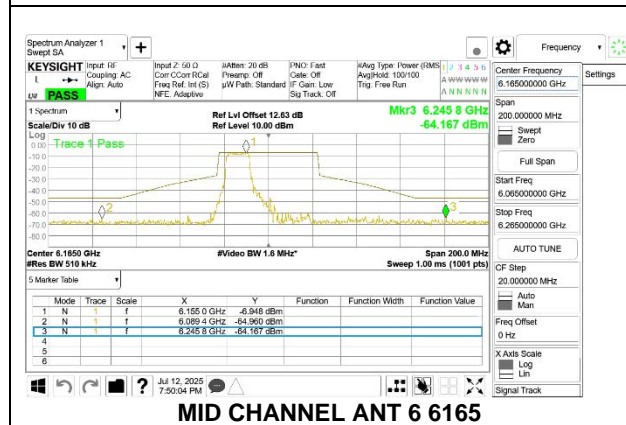
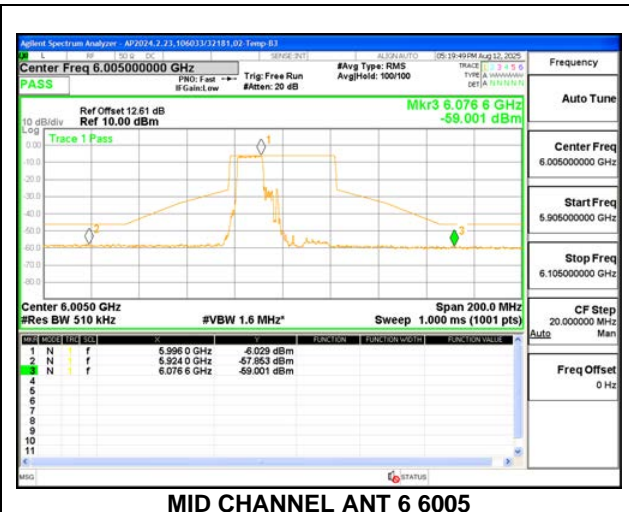
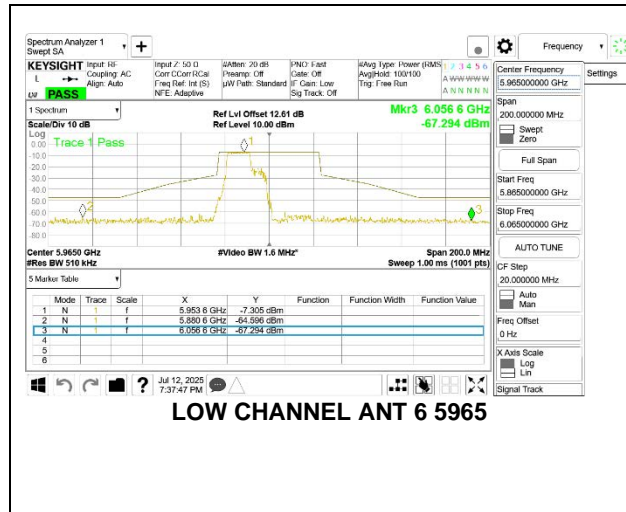


**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – SU Mode**

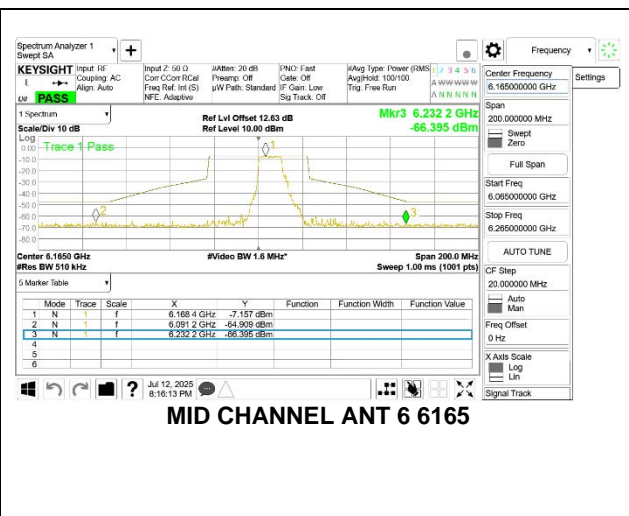
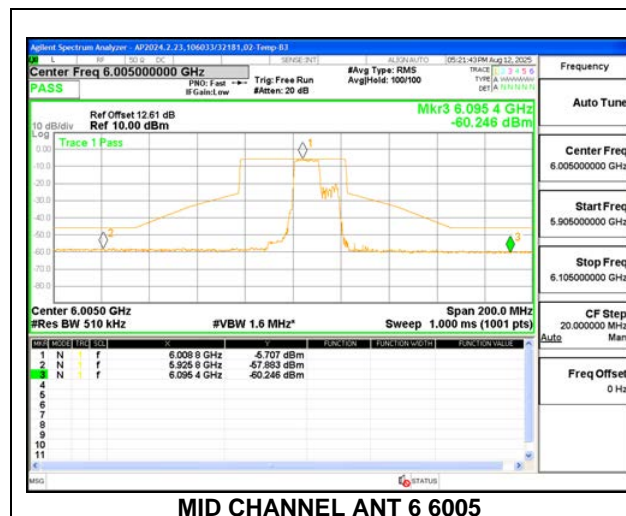


### 9.8.3. 802.11be EHT40 MODE IN THE UNII-5 BAND

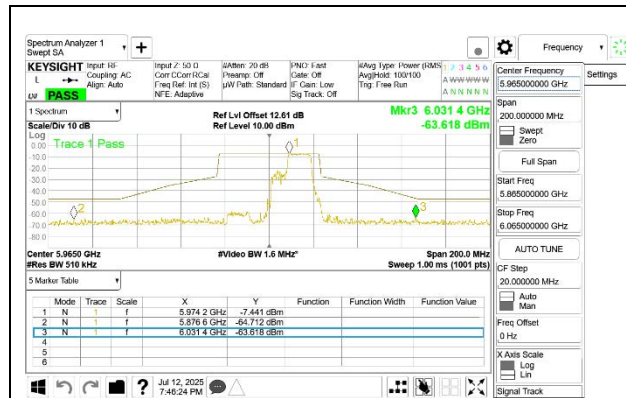
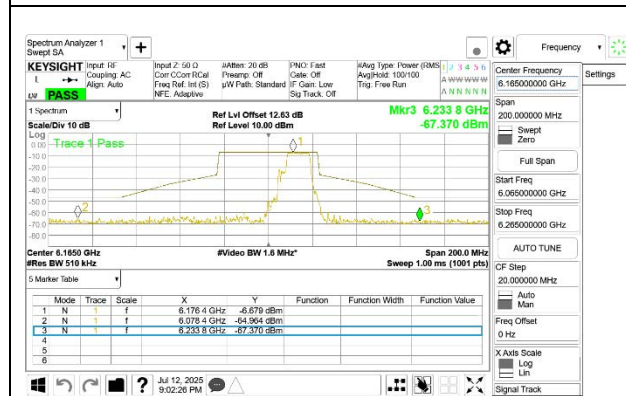
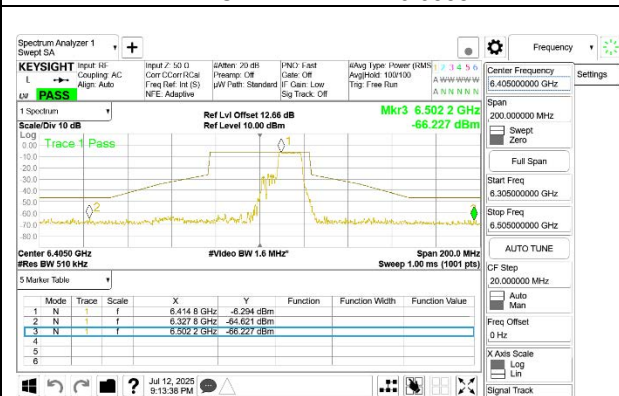
#### 1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 82

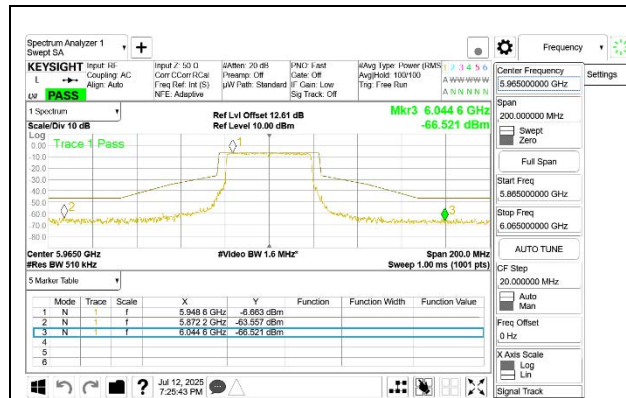
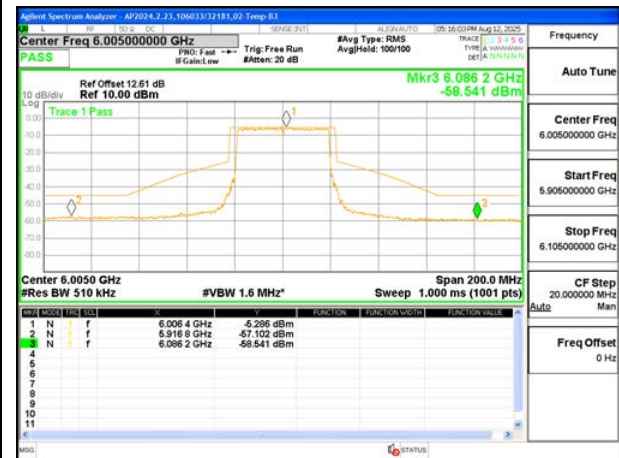
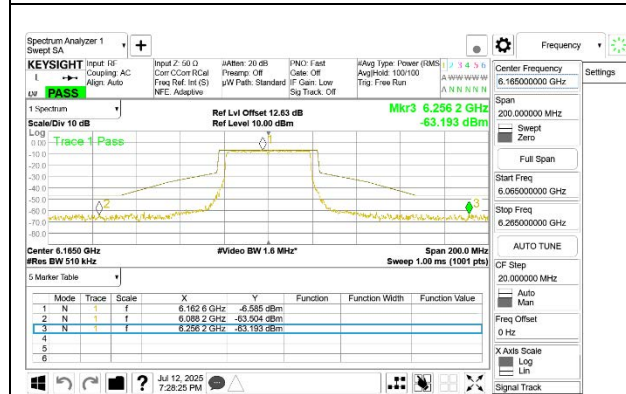
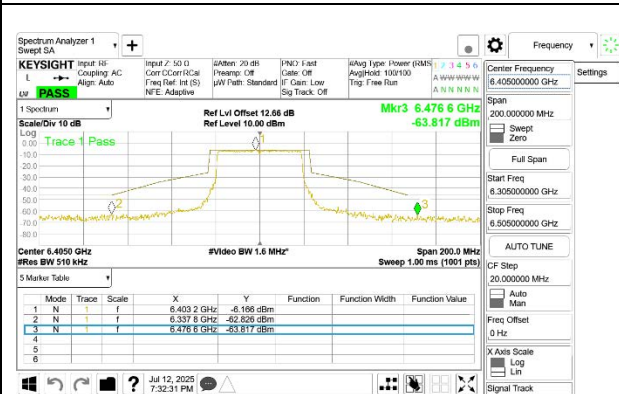


#### 1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 84

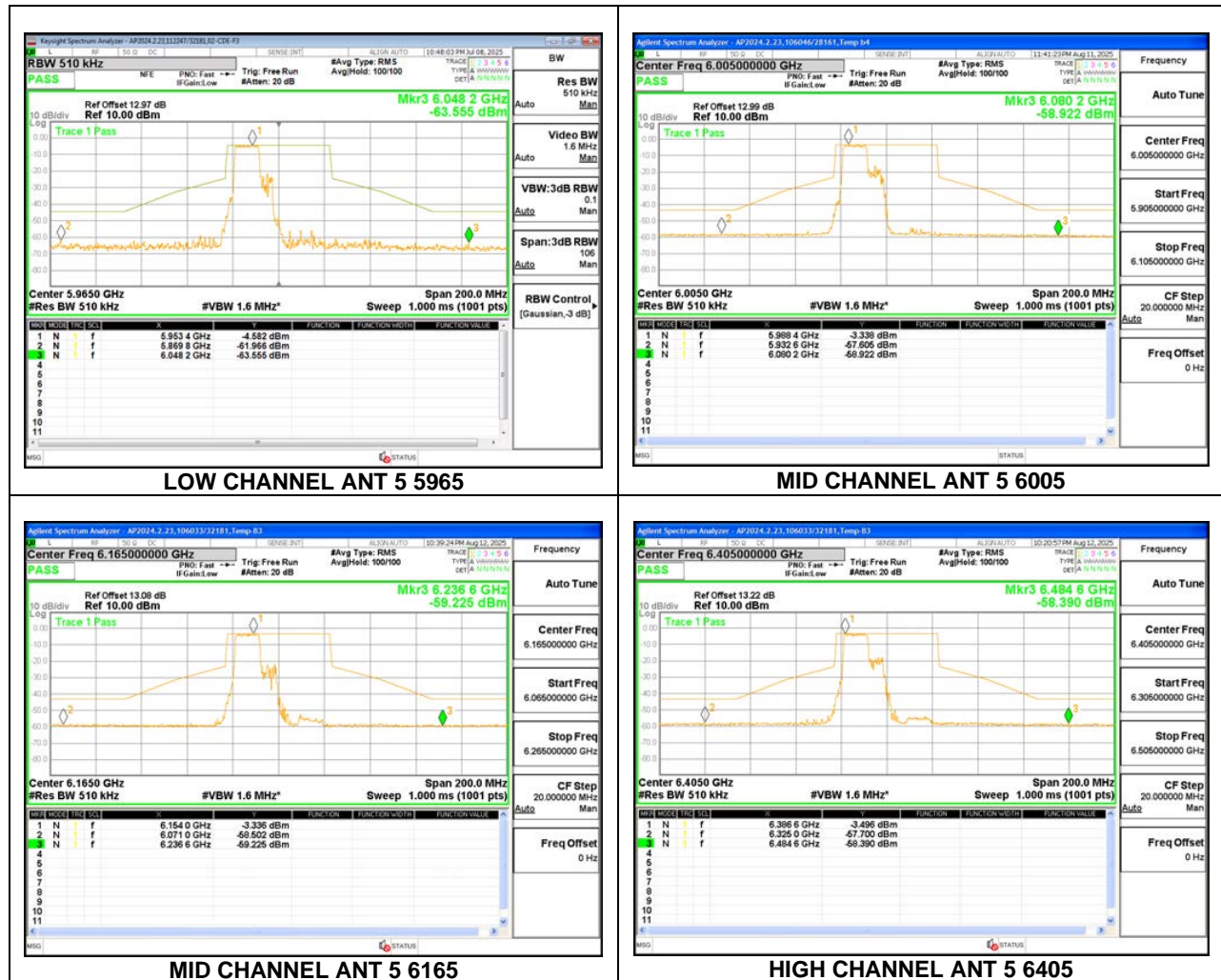
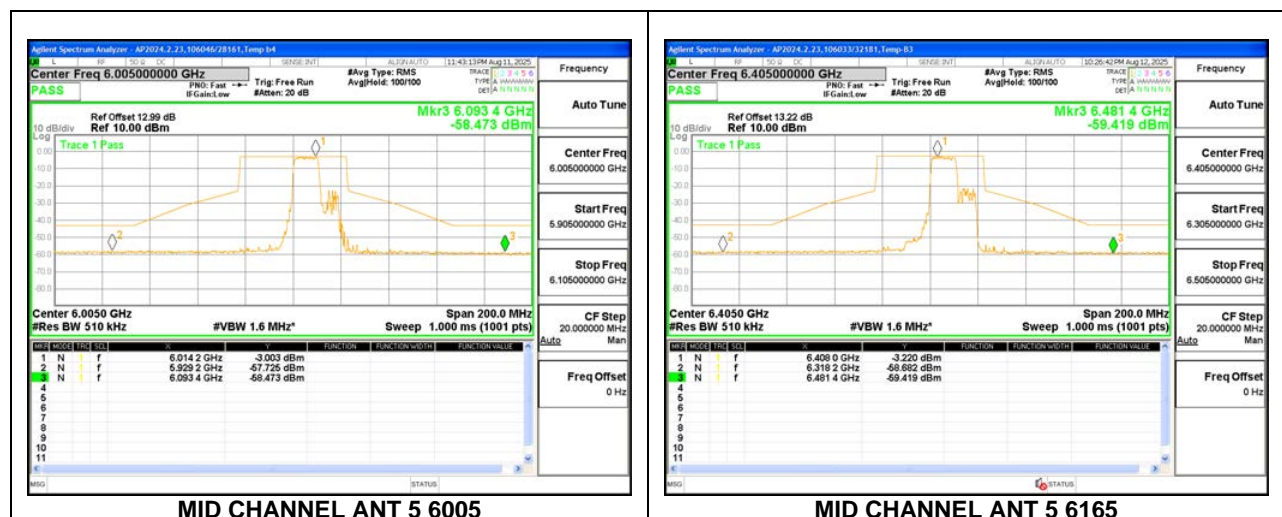


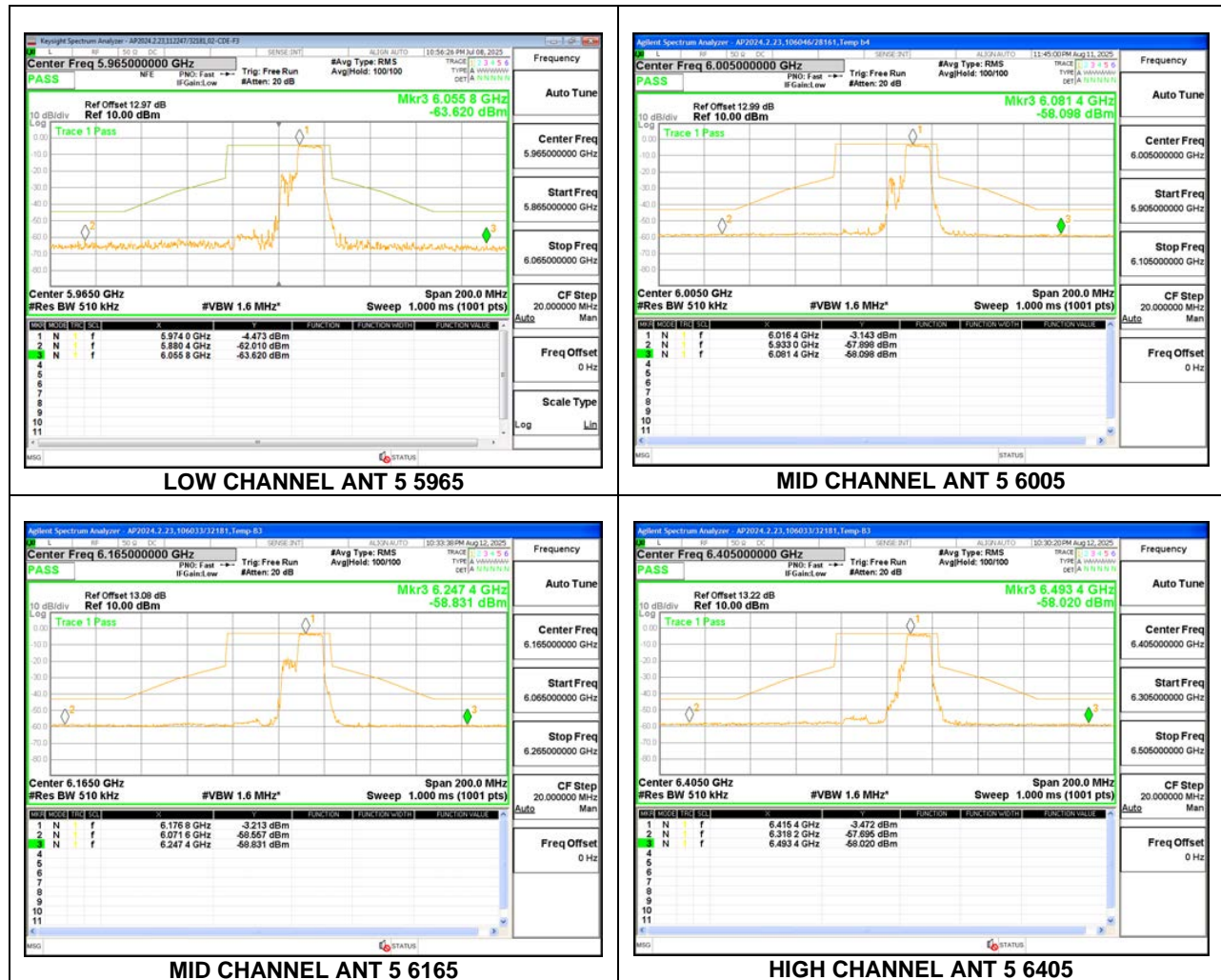


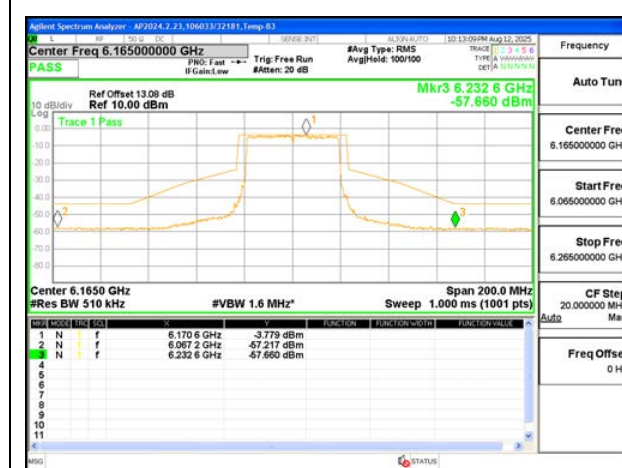
**1TX Antenna 6 MODE (FCC-IC) MOBILE – 106+26-Tone, RU Index 85****LOW CHANNEL ANT 6 5965****MID CHANNEL ANT 6 6005****MID CHANNEL ANT 6 6165****HIGH CHANNEL ANT 6 6405**

**1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE****LOW CHANNEL ANT 6 5965****MID CHANNEL ANT 6 6005****MID CHANNEL ANT 6 6165****HIGH CHANNEL ANT 6 6405**

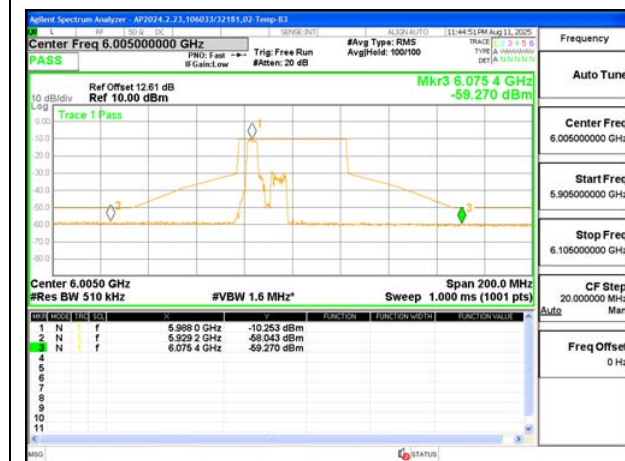
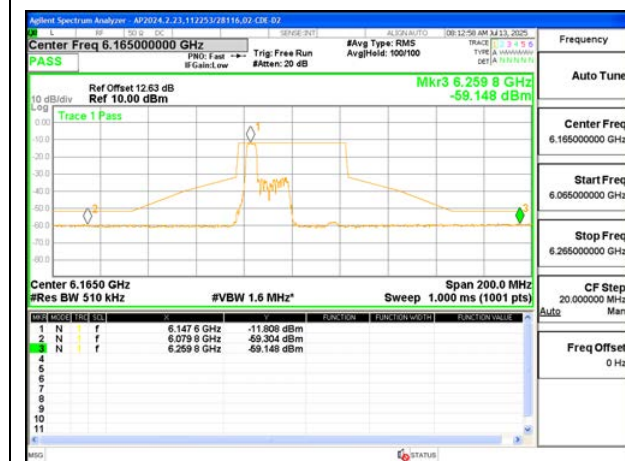


**1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 82****1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 84**

**1TX Antenna 5 MODE (FCC-IC) MOBILE – 106+26-Tone, RU Index 85**

**1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 5 6005****MID CHANNEL ANT 5 6165****HIGH CHANNEL ANT 5 6405**



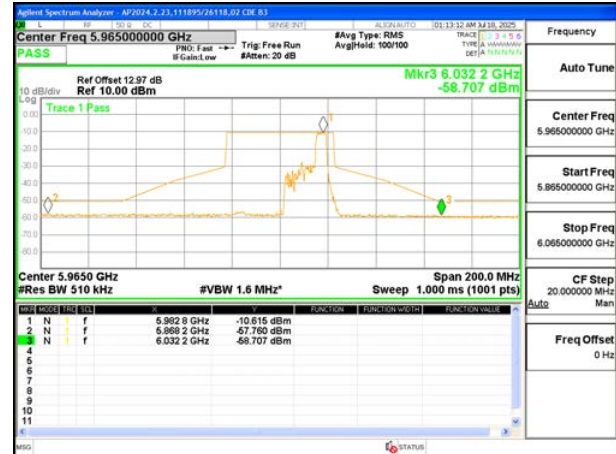
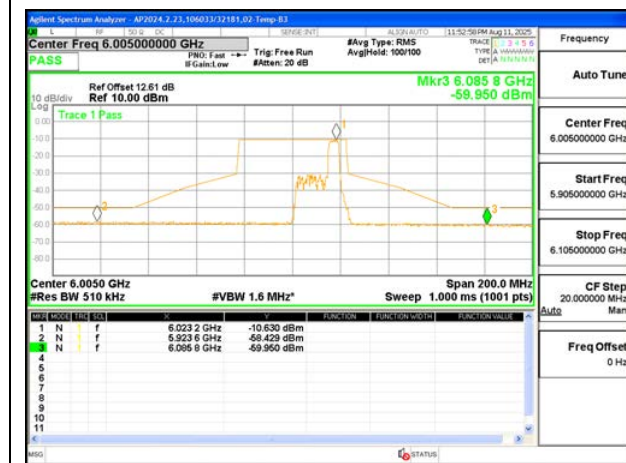
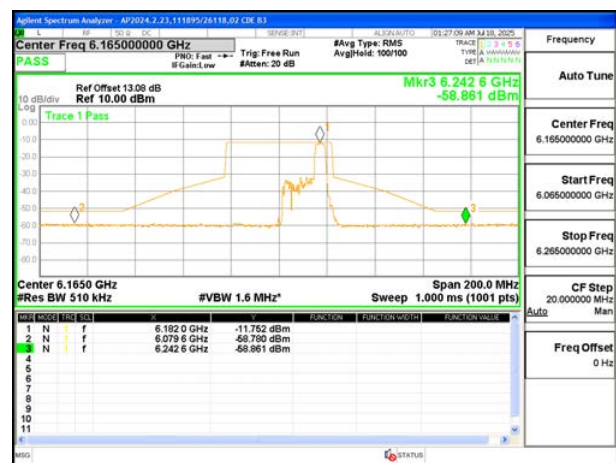
**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 52-Tone, RU Index 37****LOW CHANNEL ANT 6 5965****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 6 6005****MID CHANNEL ANT 5 6005****MID CHANNEL ANT 6 6165****MID CHANNEL ANT 5 6165**

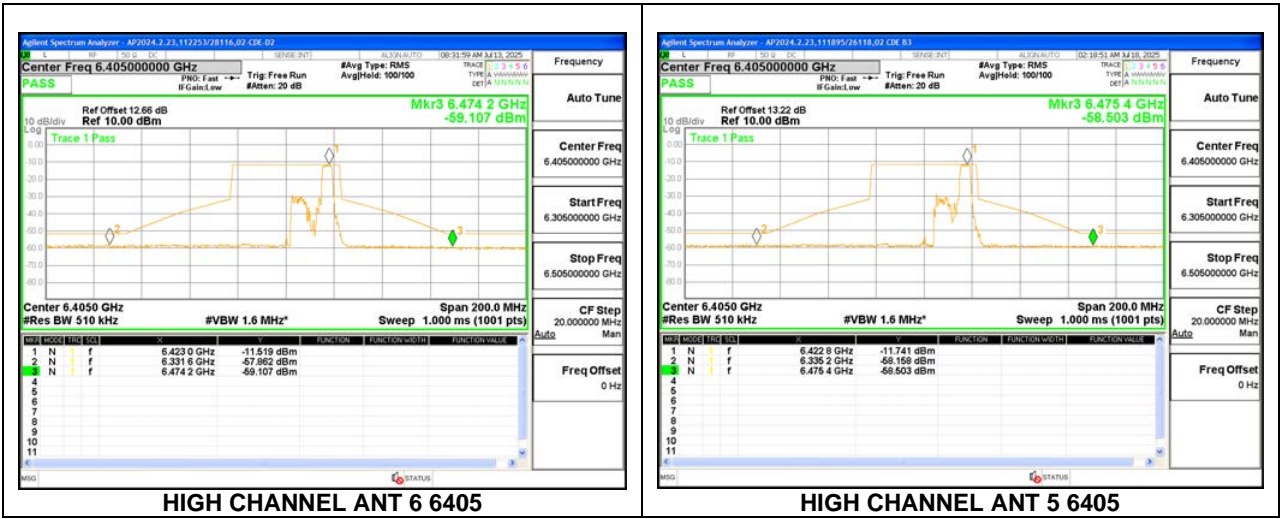


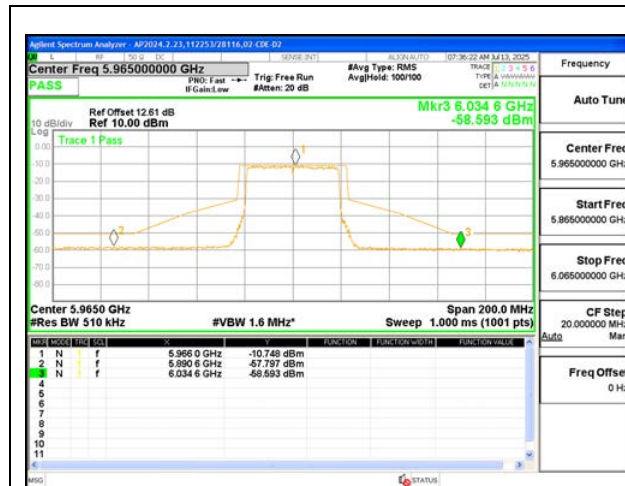
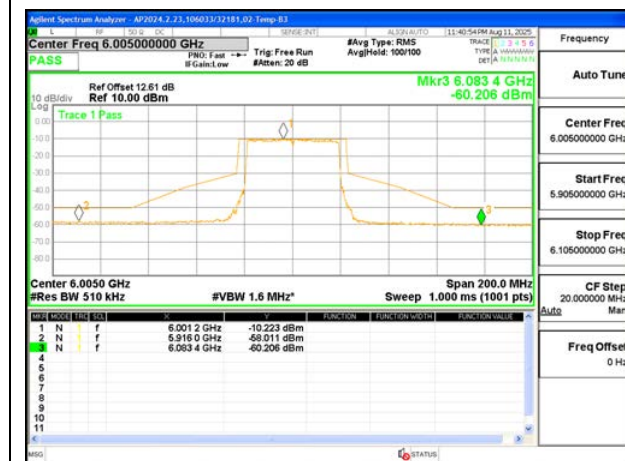
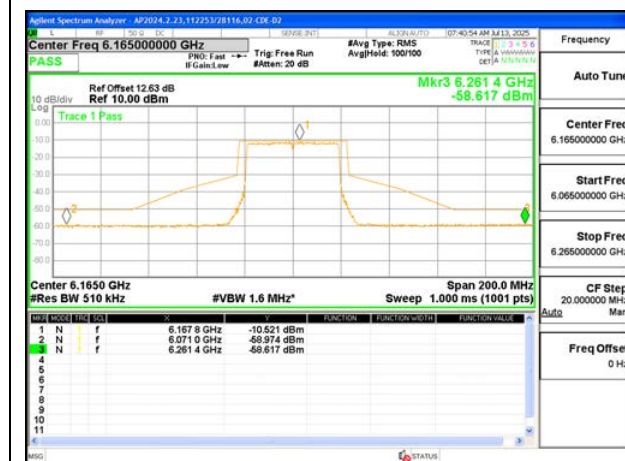
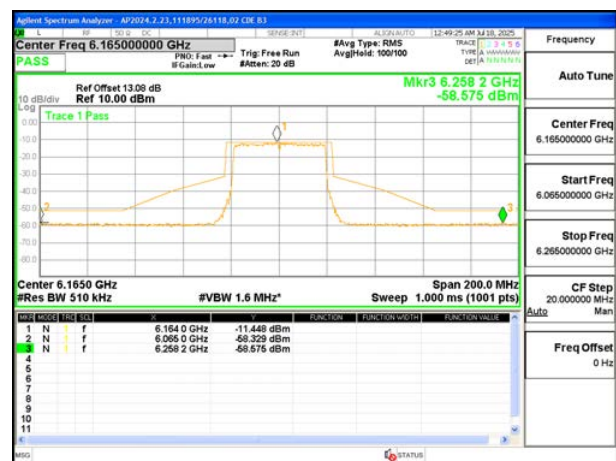
## 2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 52-Tone, RU Index 41





**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 52-Tone, RU Index 44****LOW CHANNEL ANT 6 5965****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 6 6005****MID CHANNEL ANT 5 6005****MID CHANNEL ANT 6 6165****MID CHANNEL ANT 5 6165**



**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – SU MODE****LOW CHANNEL ANT 6 5965****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 6 6005****MID CHANNEL ANT 5 6005****MID CHANNEL ANT 6 6165****MID CHANNEL ANT 5 6165**

