

9.10 VLP 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	106T: 300kHz/910kHz MRU106+26T: 300kHz/910kHz	MRU106+26T: 510kHz/1.6MHz	MRU106+26T: 510kHz/1.6MHz	MRU106+26T: 510kHz/1.6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

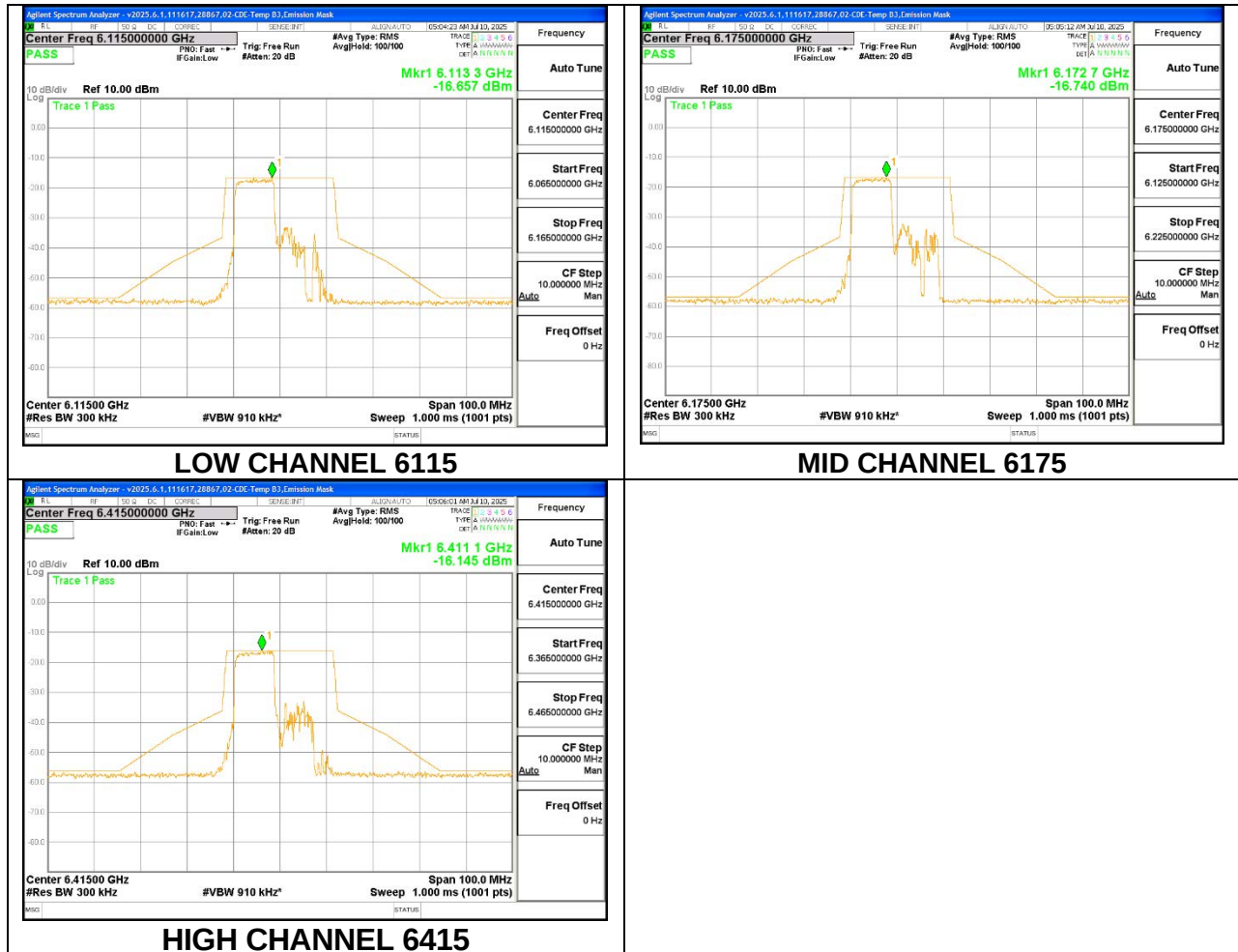
*Different RBW/VBW due to different partial tones.

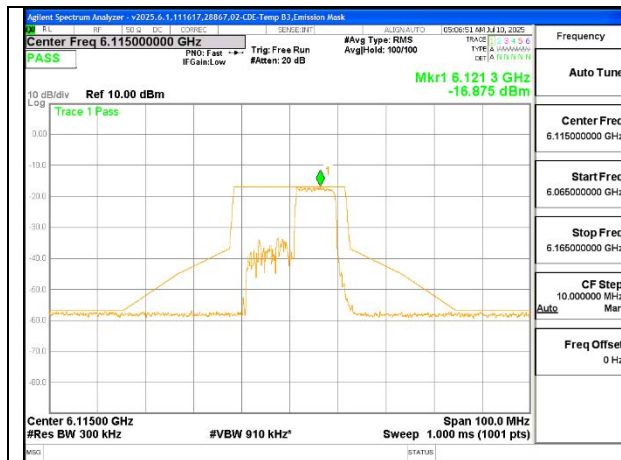
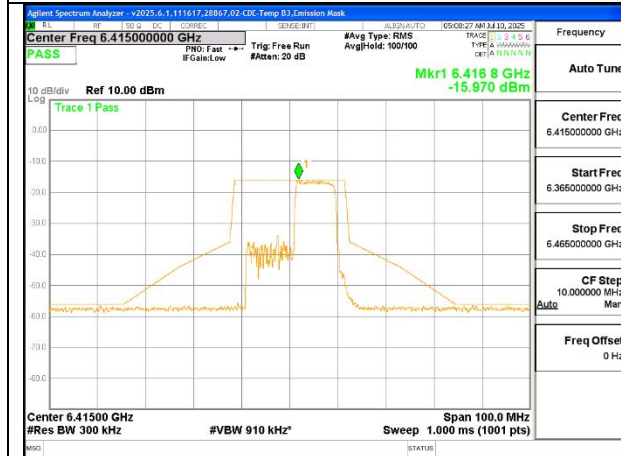
RESULTS

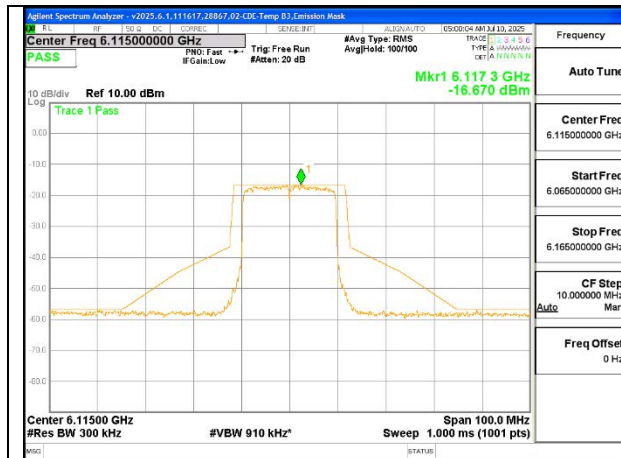
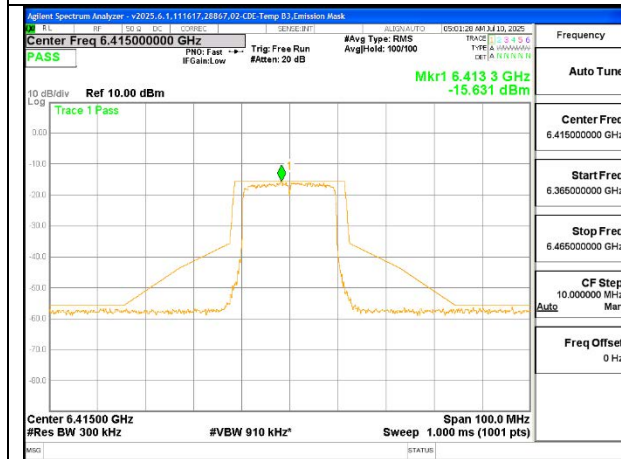
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify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

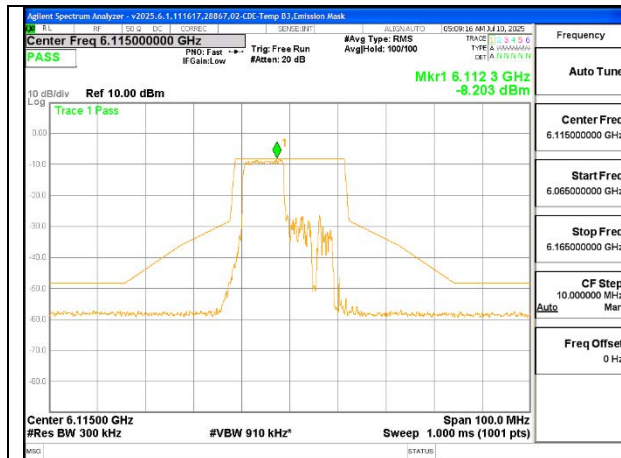
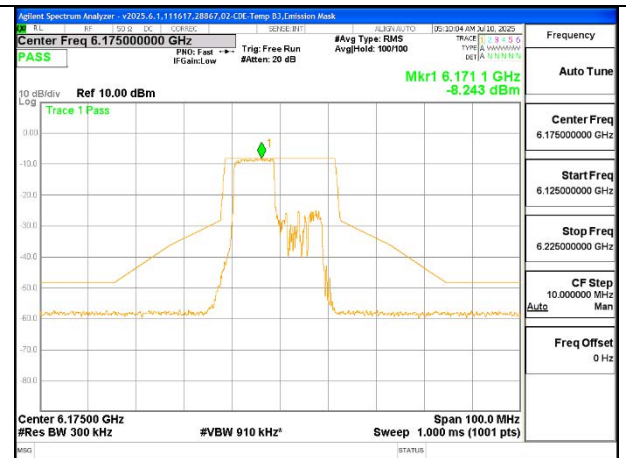
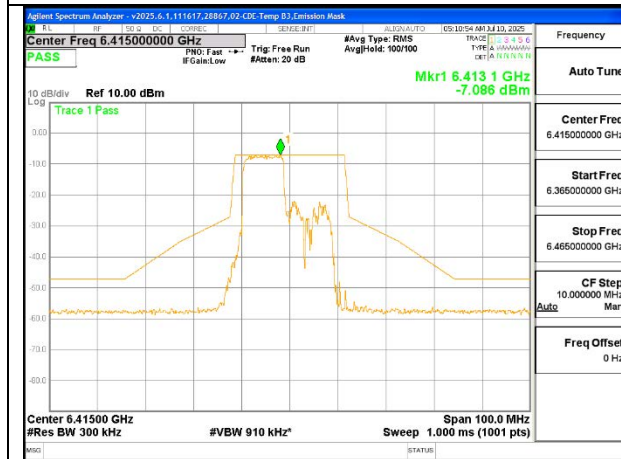
9.10.1 802.11be EHT20 MODE IN THE UNII-5 BAND

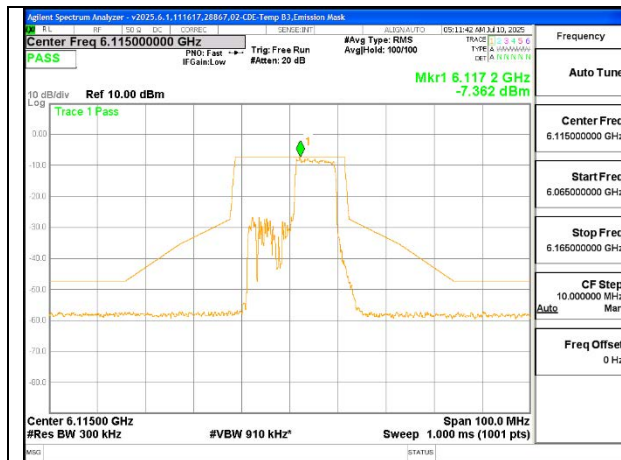
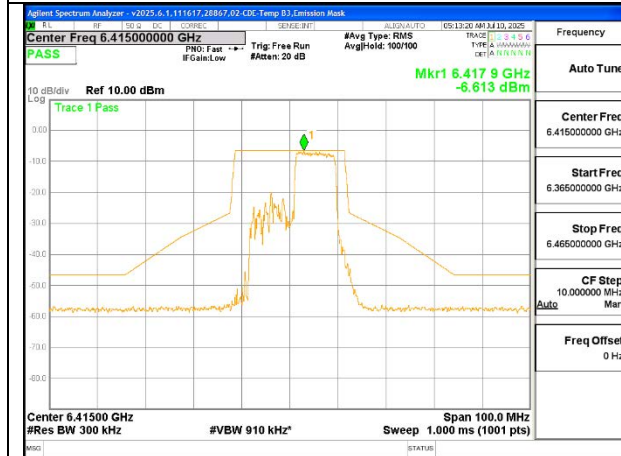
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53

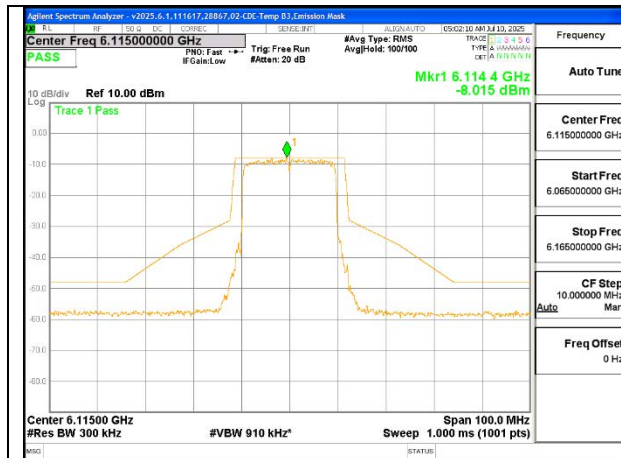
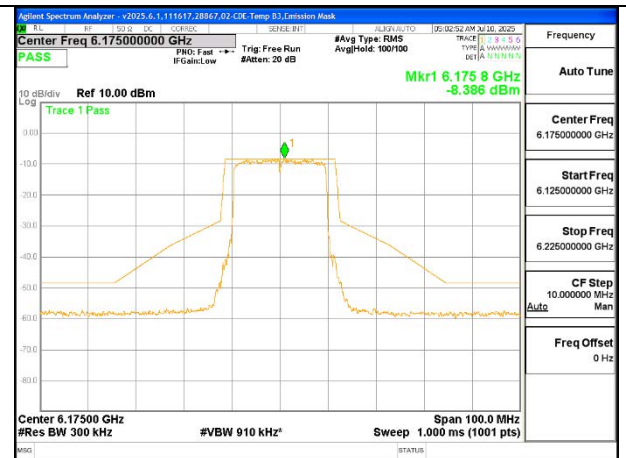
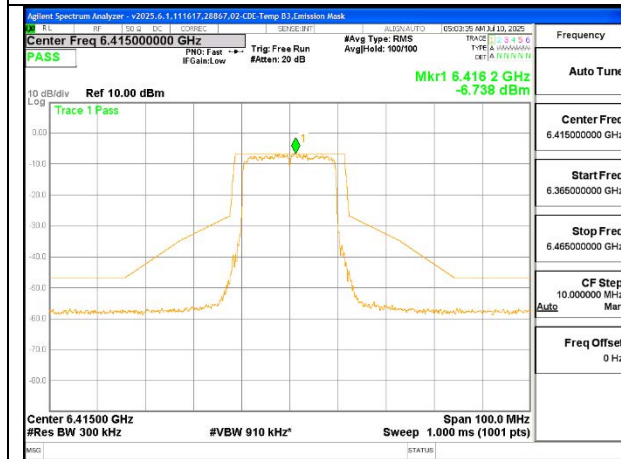


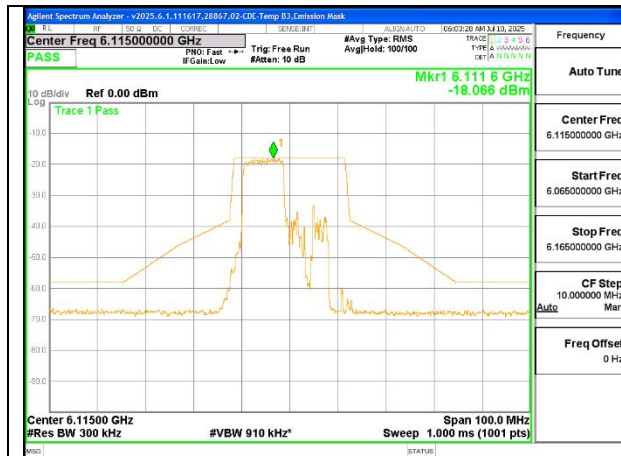
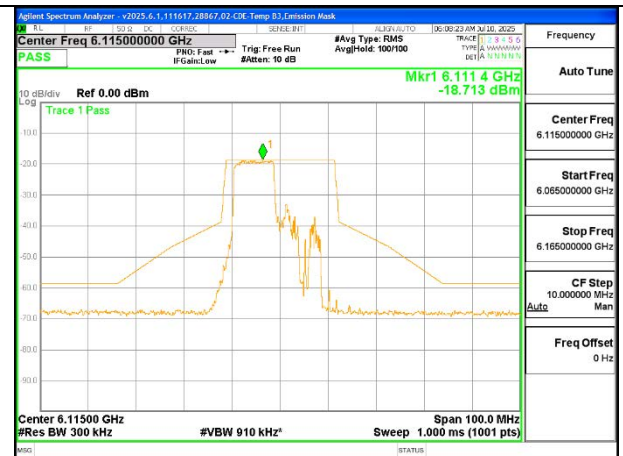
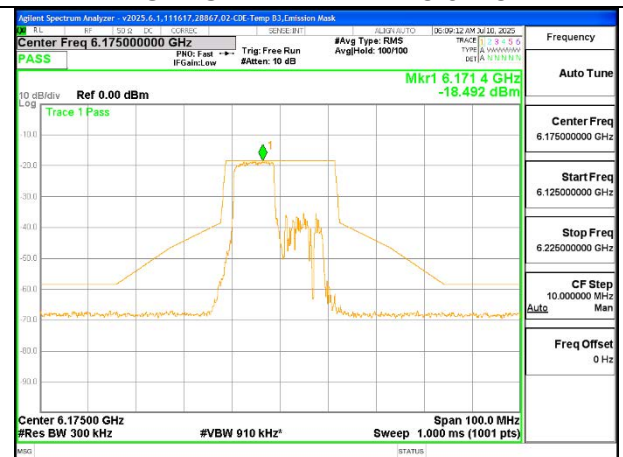
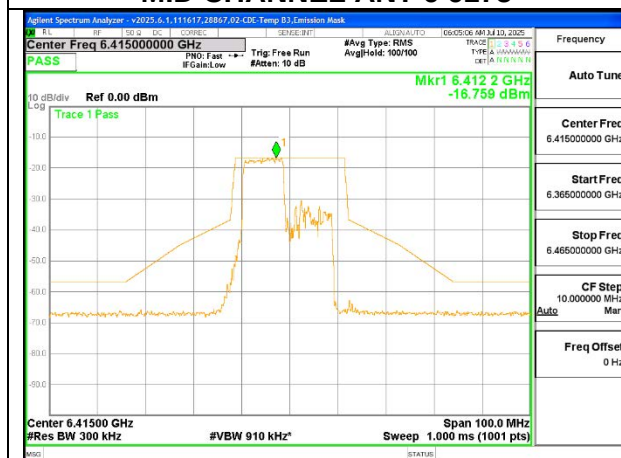
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54**LOW CHANNEL 6115****MID CHANNEL 6175****HIGH CHANNEL 6415**

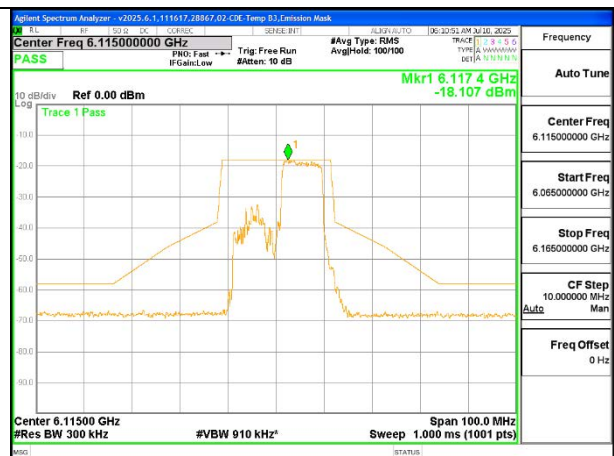
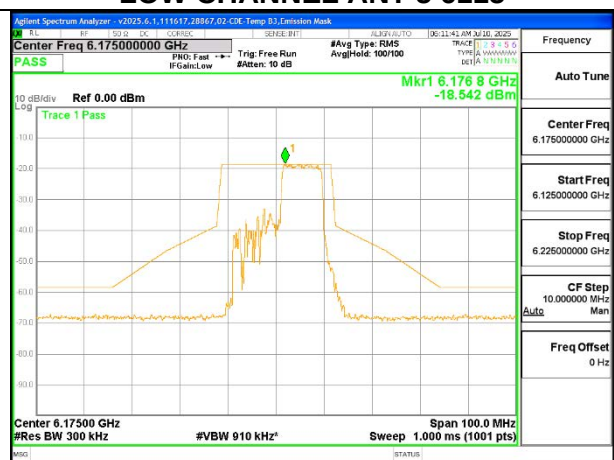
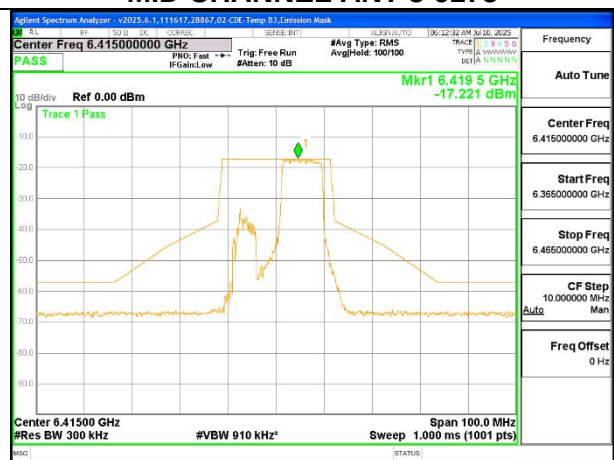
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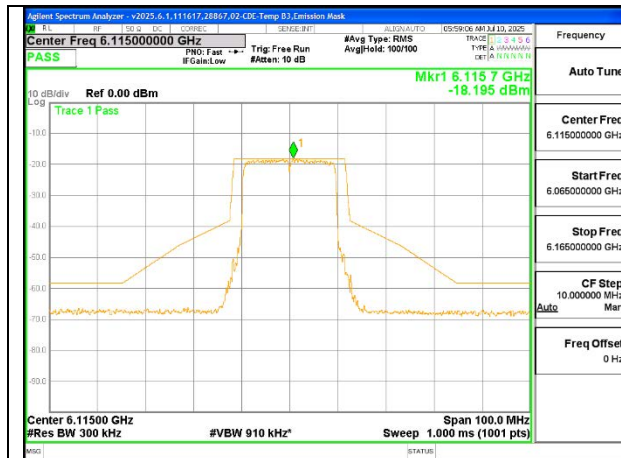
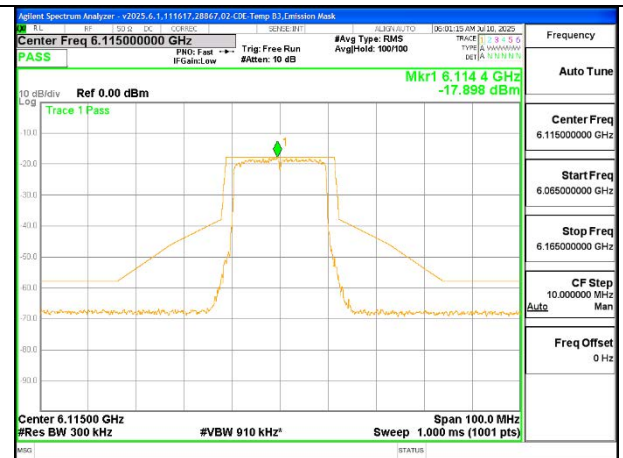
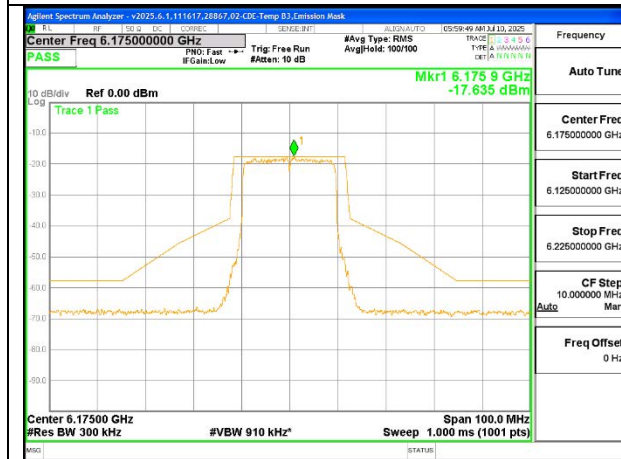
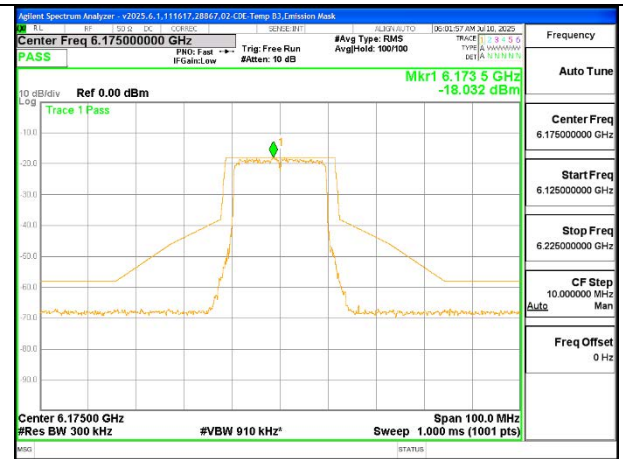
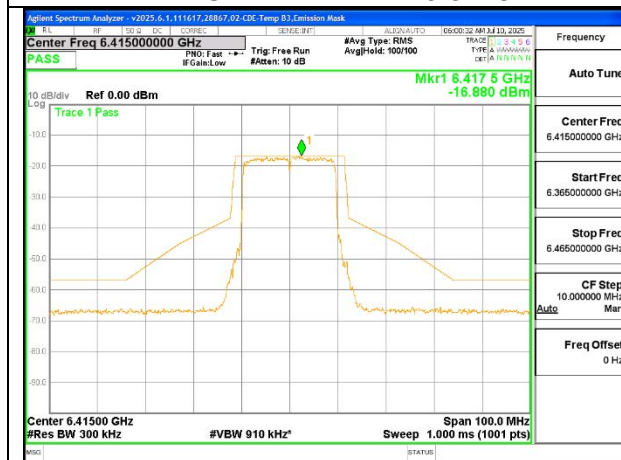
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53**LOW CHANNEL 6115****MID CHANNEL 6175****HIGH CHANNEL 6415**

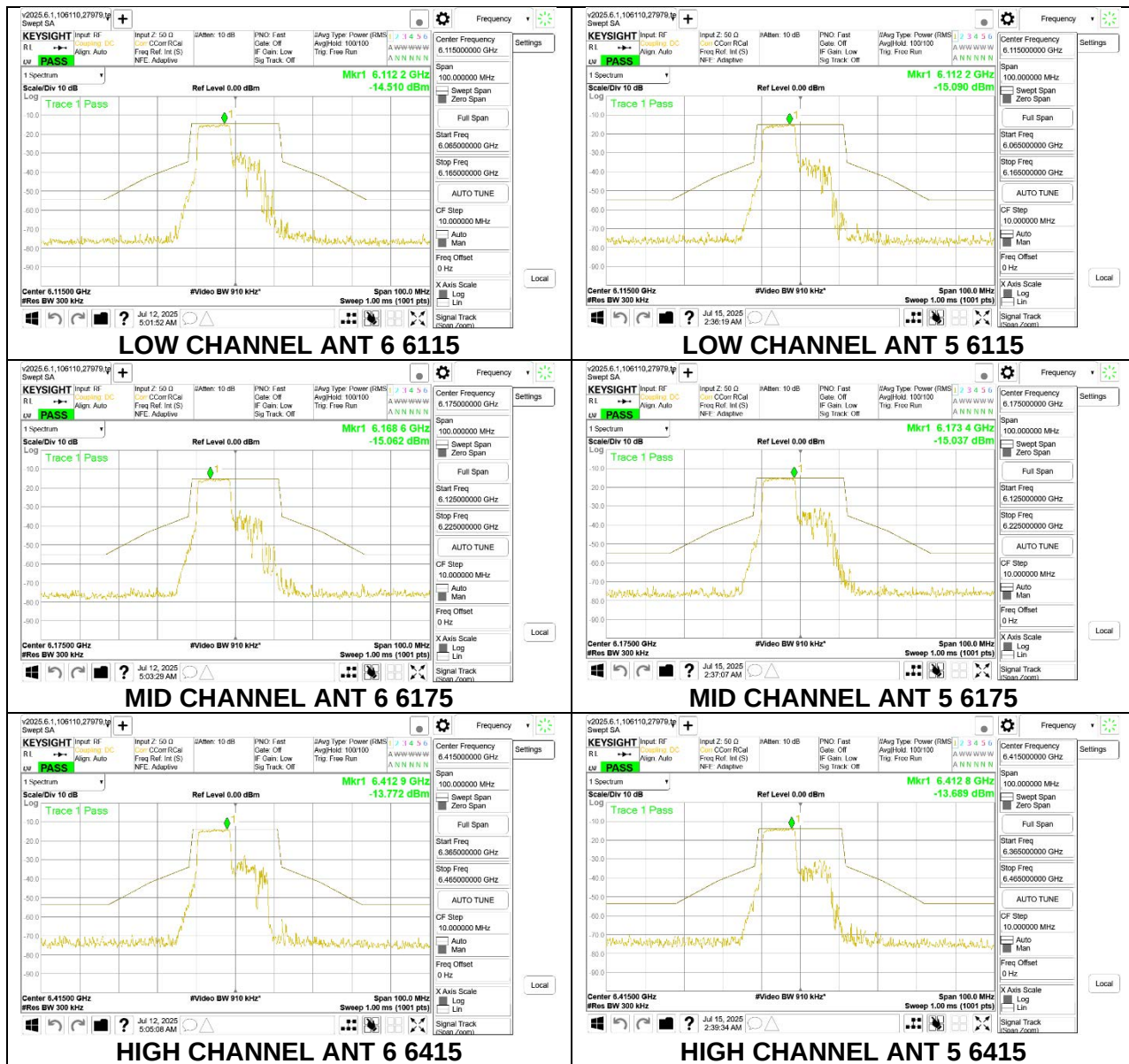
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54**LOW CHANNEL 6115****MID CHANNEL 6175****HIGH CHANNEL 6415**

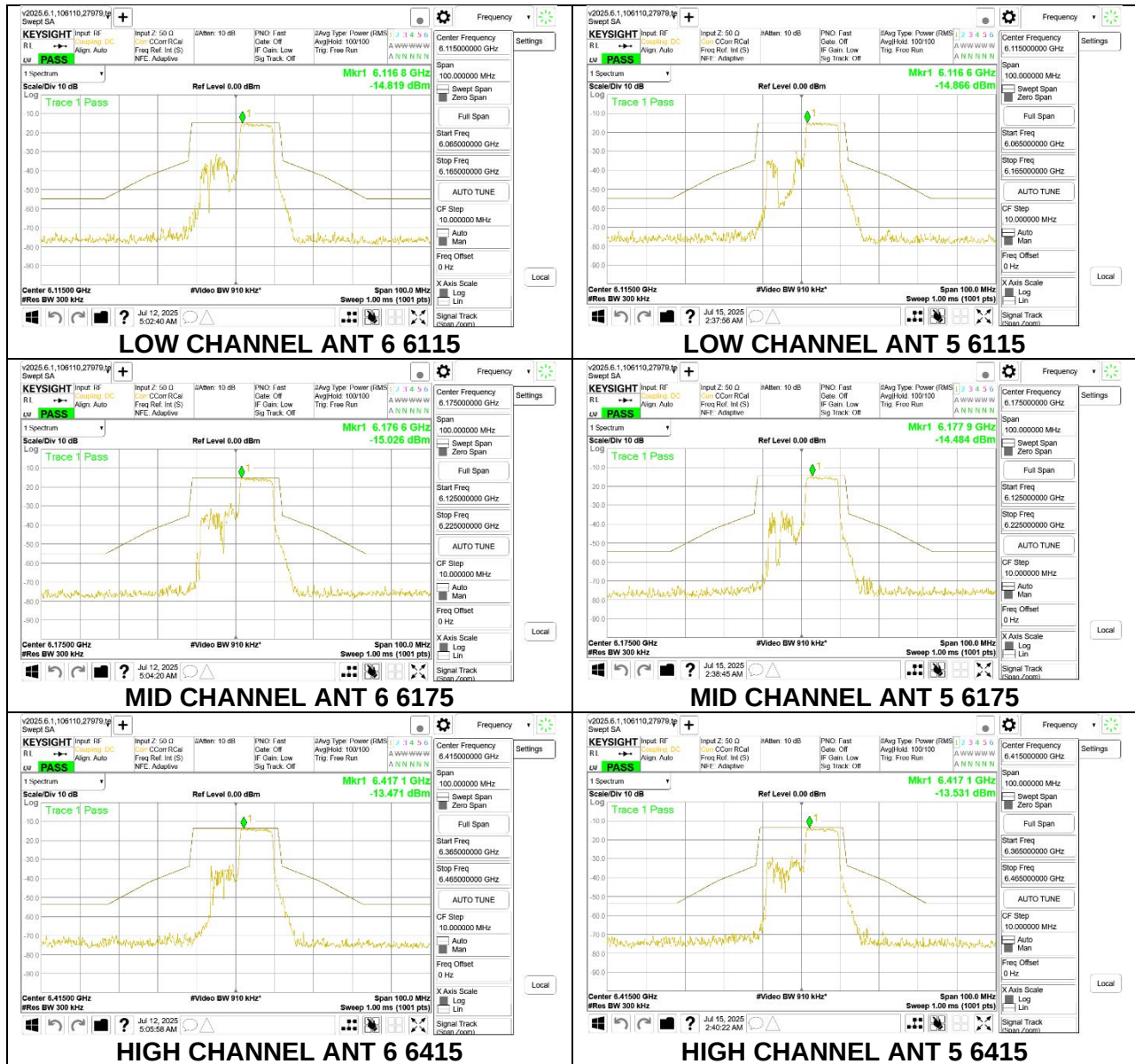
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 6115****MID CHANNEL 6175****HIGH CHANNEL 6415**

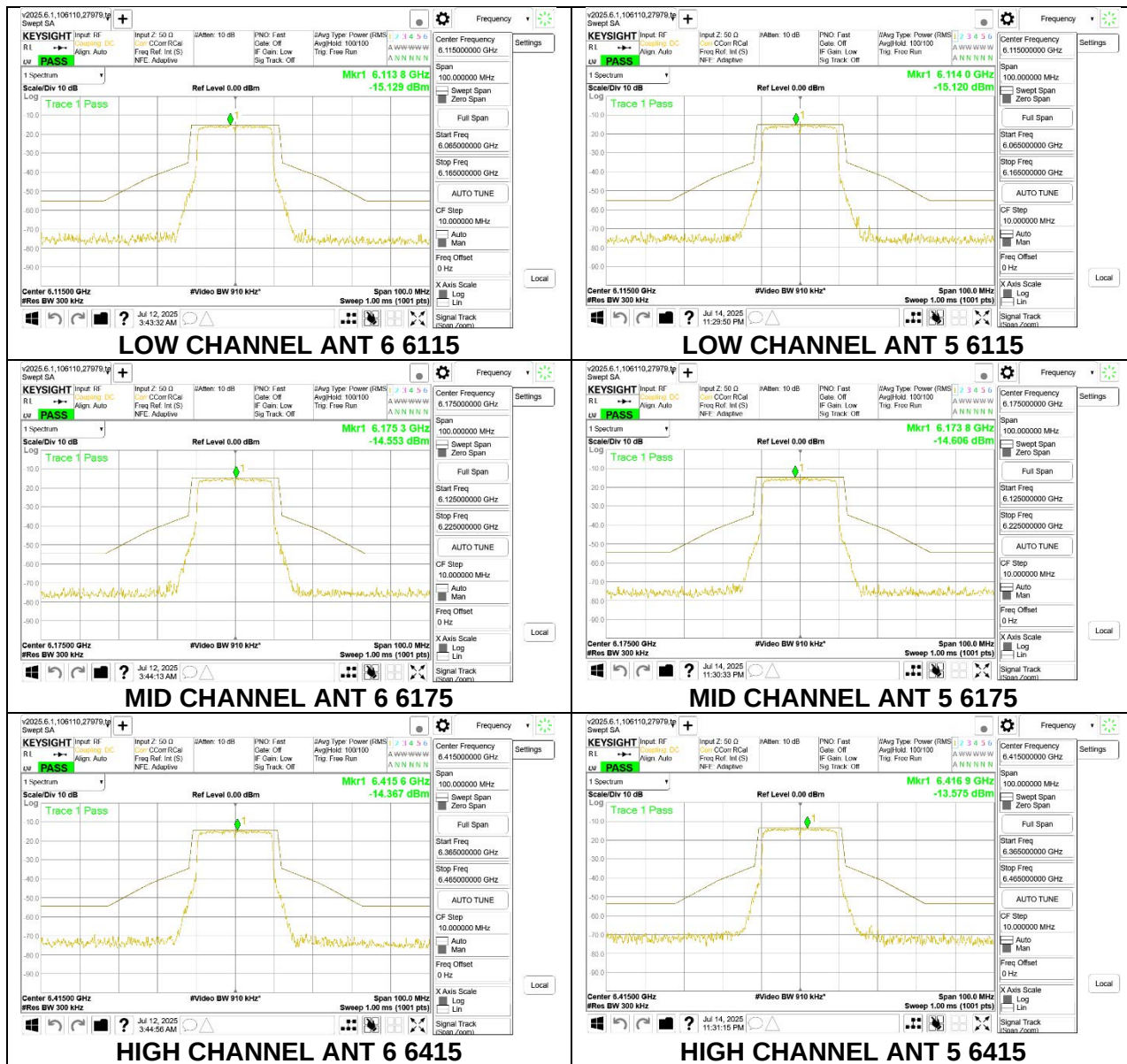
2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 53**LOW CHANNEL ANT 6 6115****LOW CHANNEL ANT 5 6115****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 54**LOW CHANNEL ANT 6 6115****LOW CHANNEL ANT 5 6115****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

2TX CDD MODE (FCC + IC) – SU MODE**LOW CHANNEL ANT 6 6115****LOW CHANNEL ANT 5 6115****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

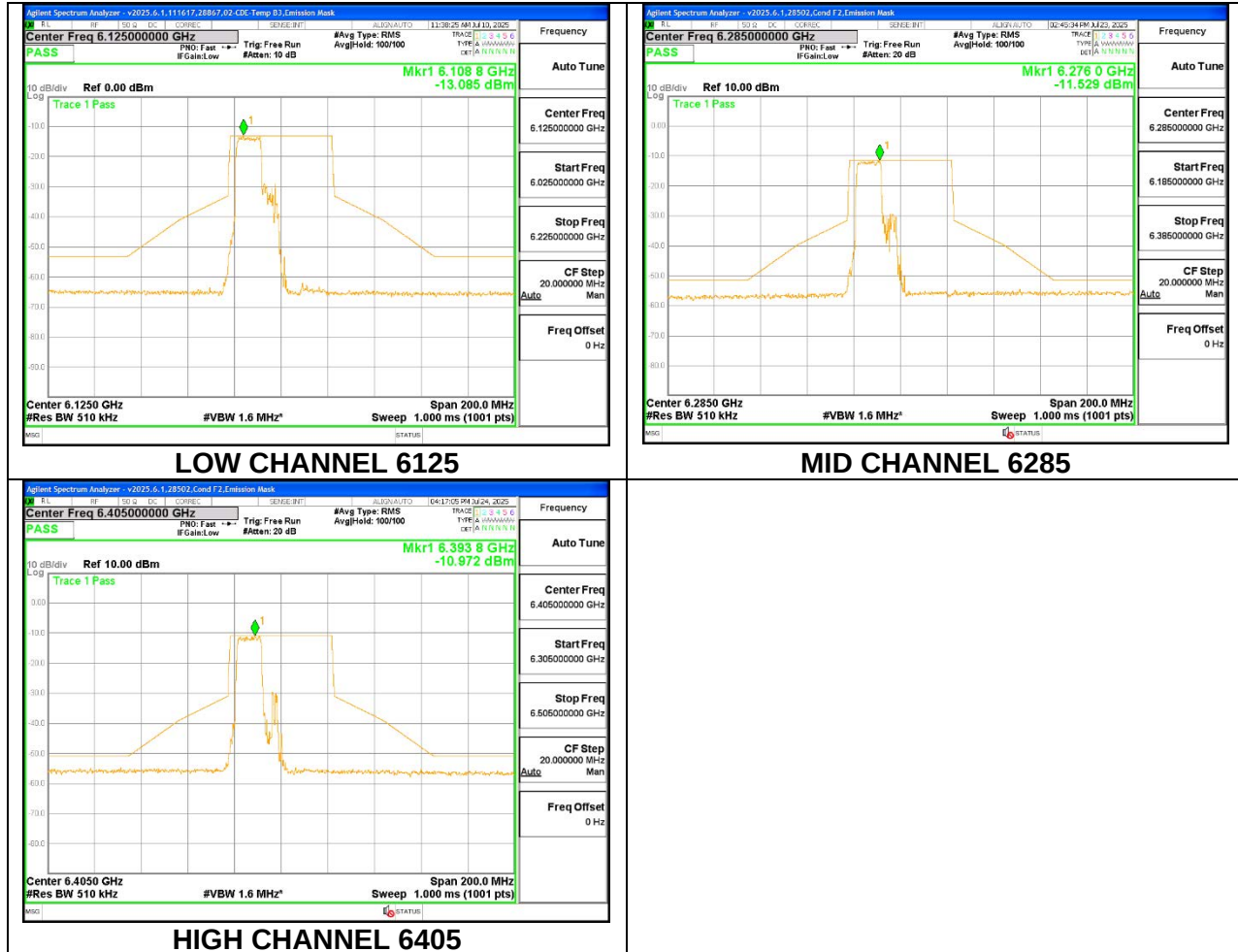
2TX SDM MODE (FCC + IC) – 106-Tones, RU Index 53

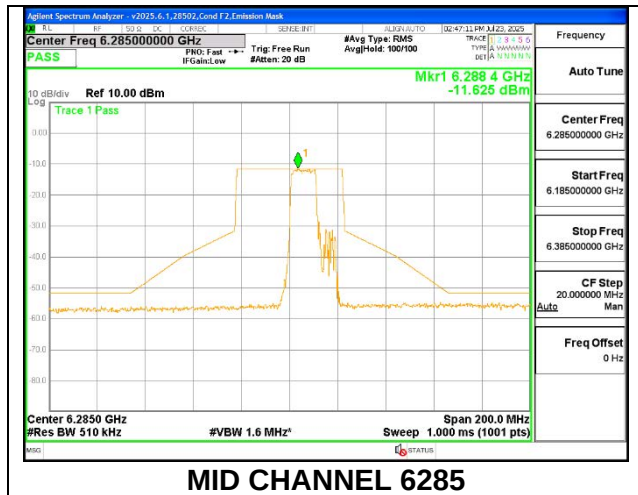
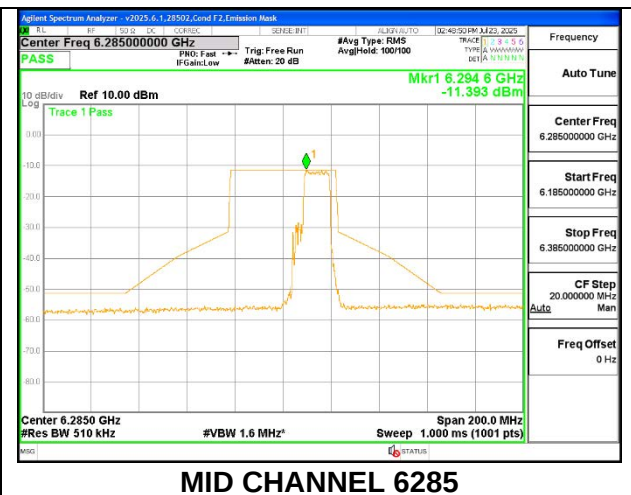
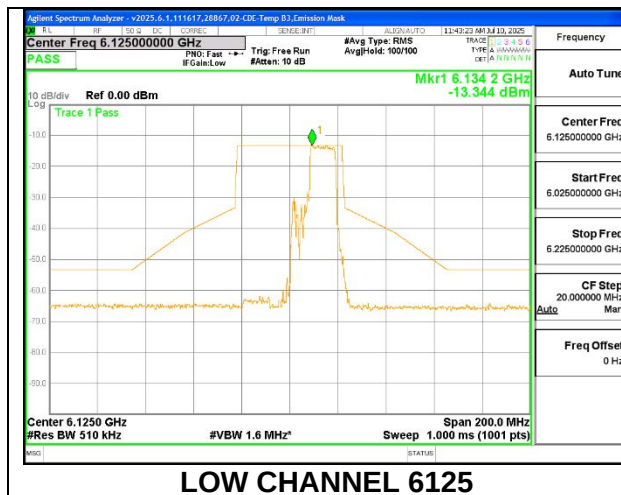
2TX SDM MODE (FCC + IC) – 106-Tones, RU Index 54

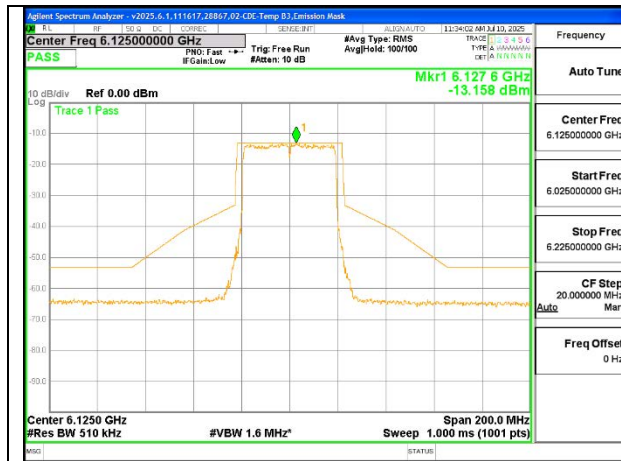
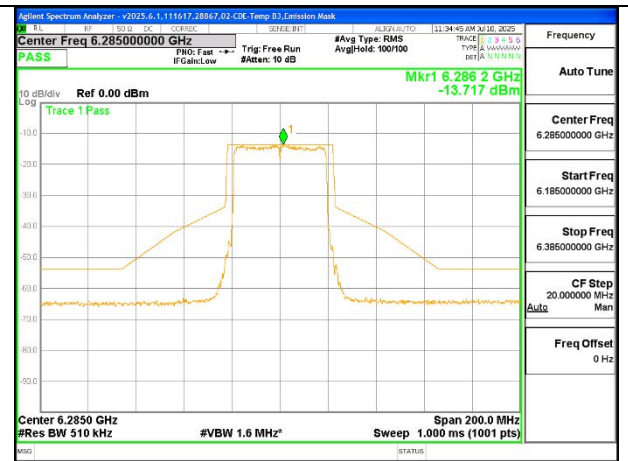
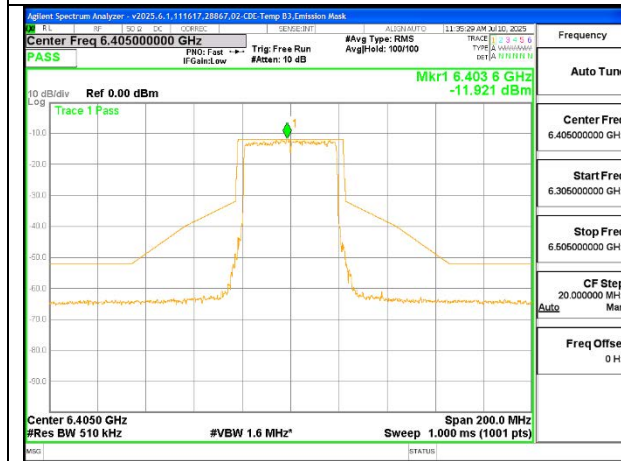
2TX SDM MODE (FCC + IC) – SU MODE

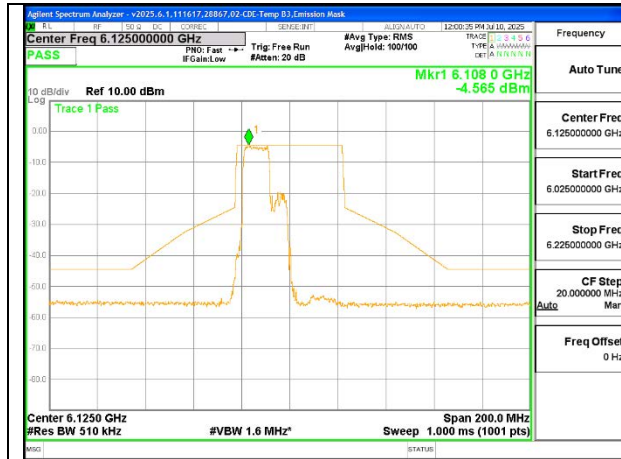
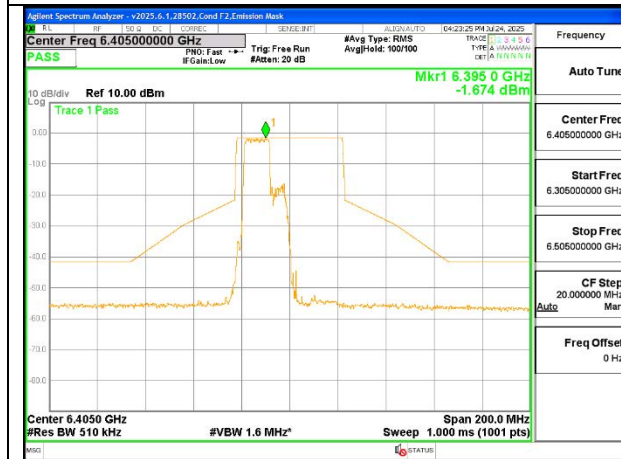
9.10.2 802.11be EHT40 MODE IN THE UNII-5 BAND

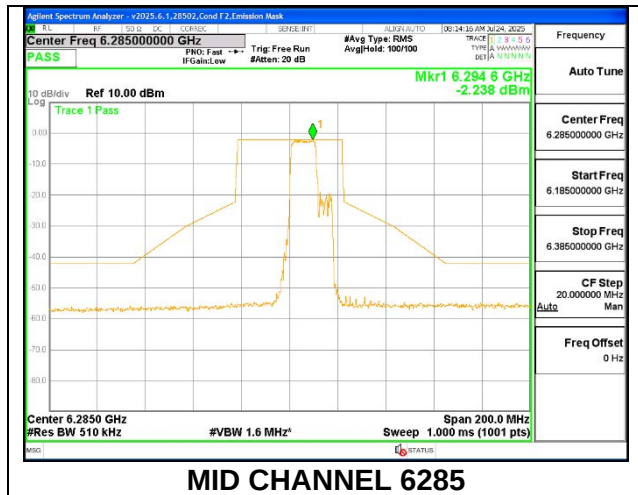
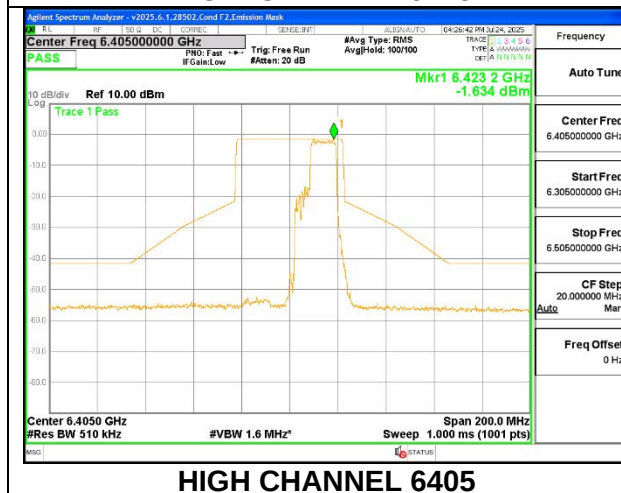
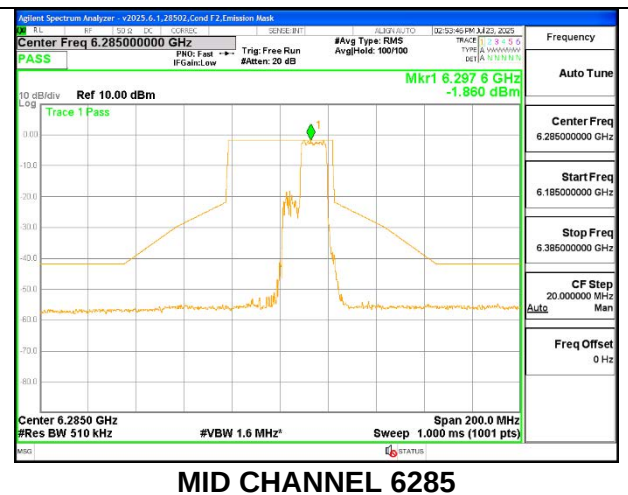
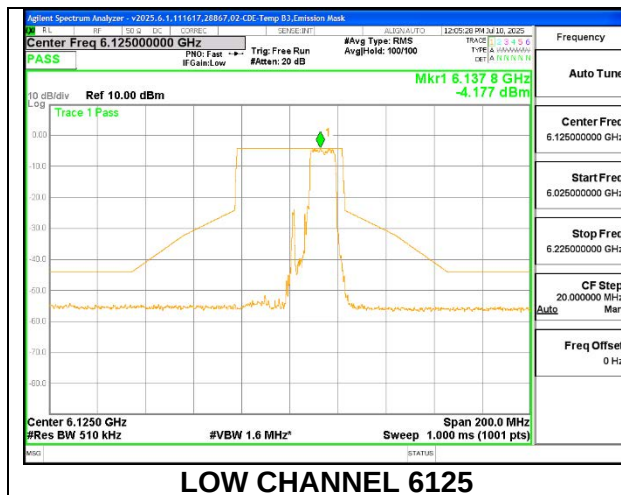
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tones, RU Index 82

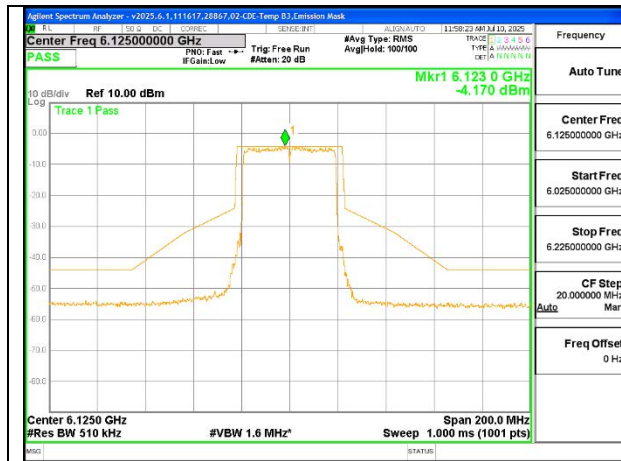
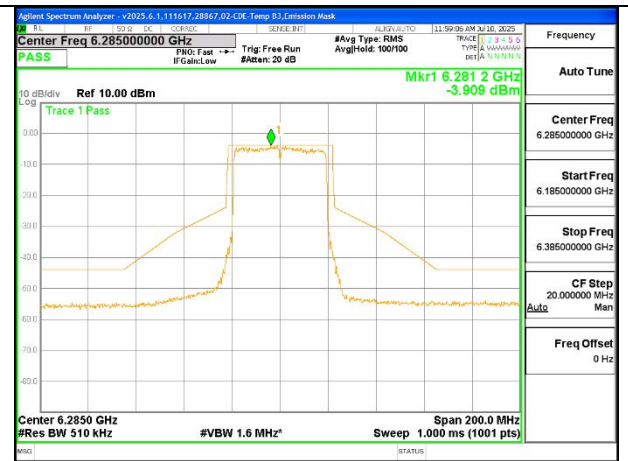
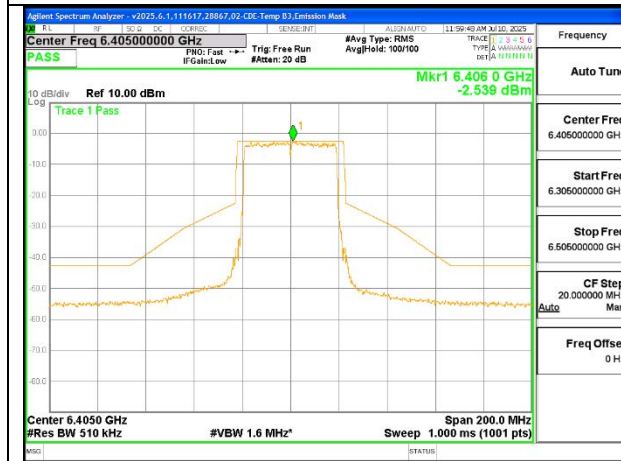


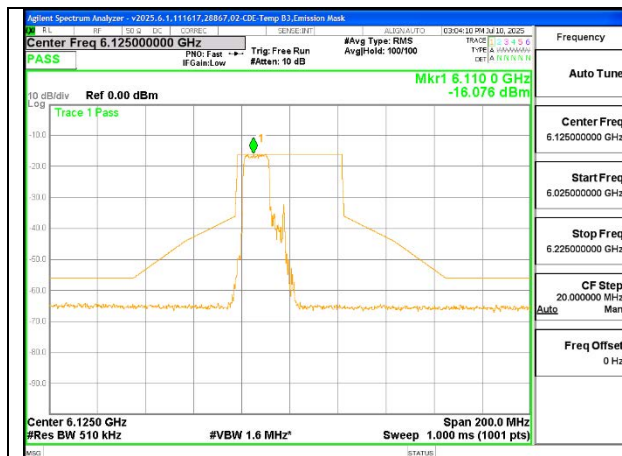
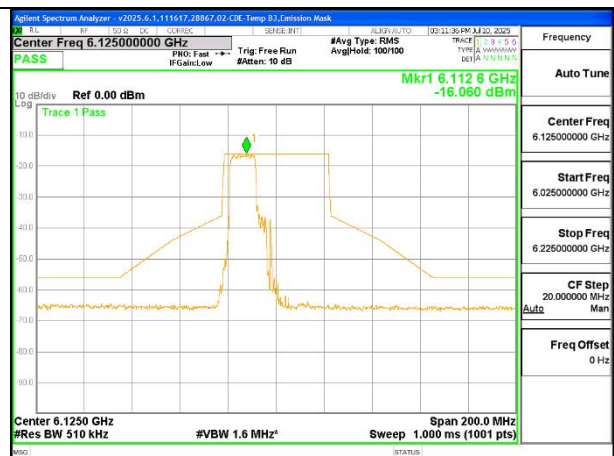
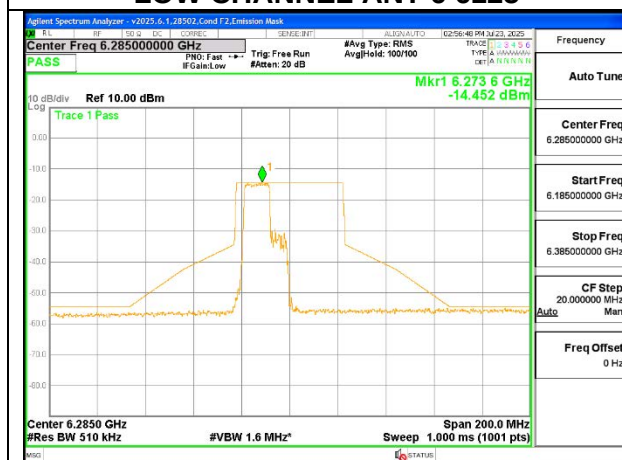
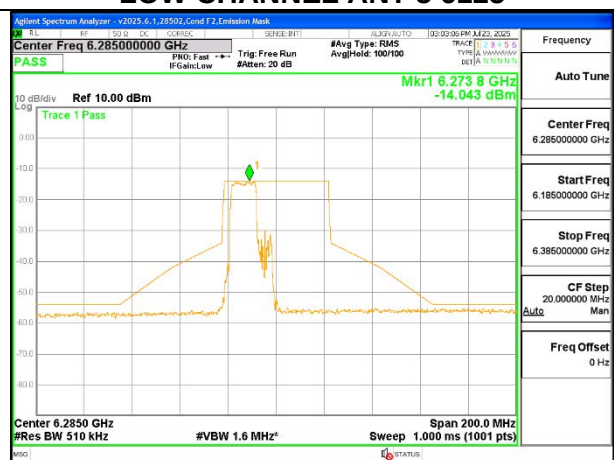
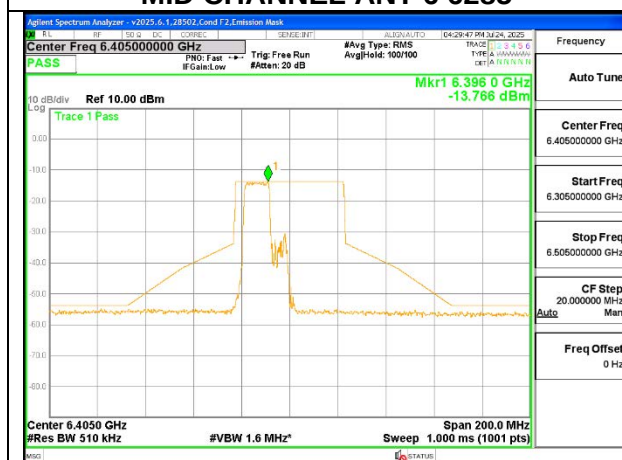
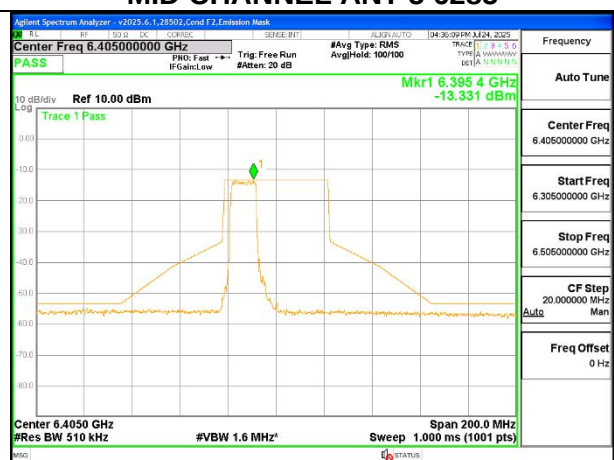
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tones, RU Index 84**1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tones, RU Index 85**

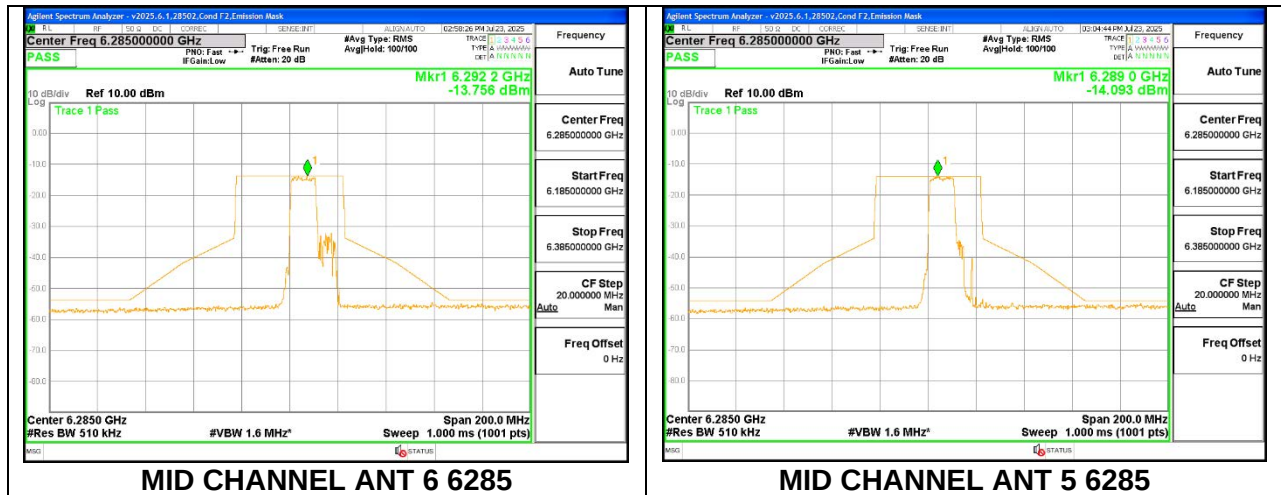
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 6125****MID CHANNEL 6285****HIGH CHANNEL 6405**

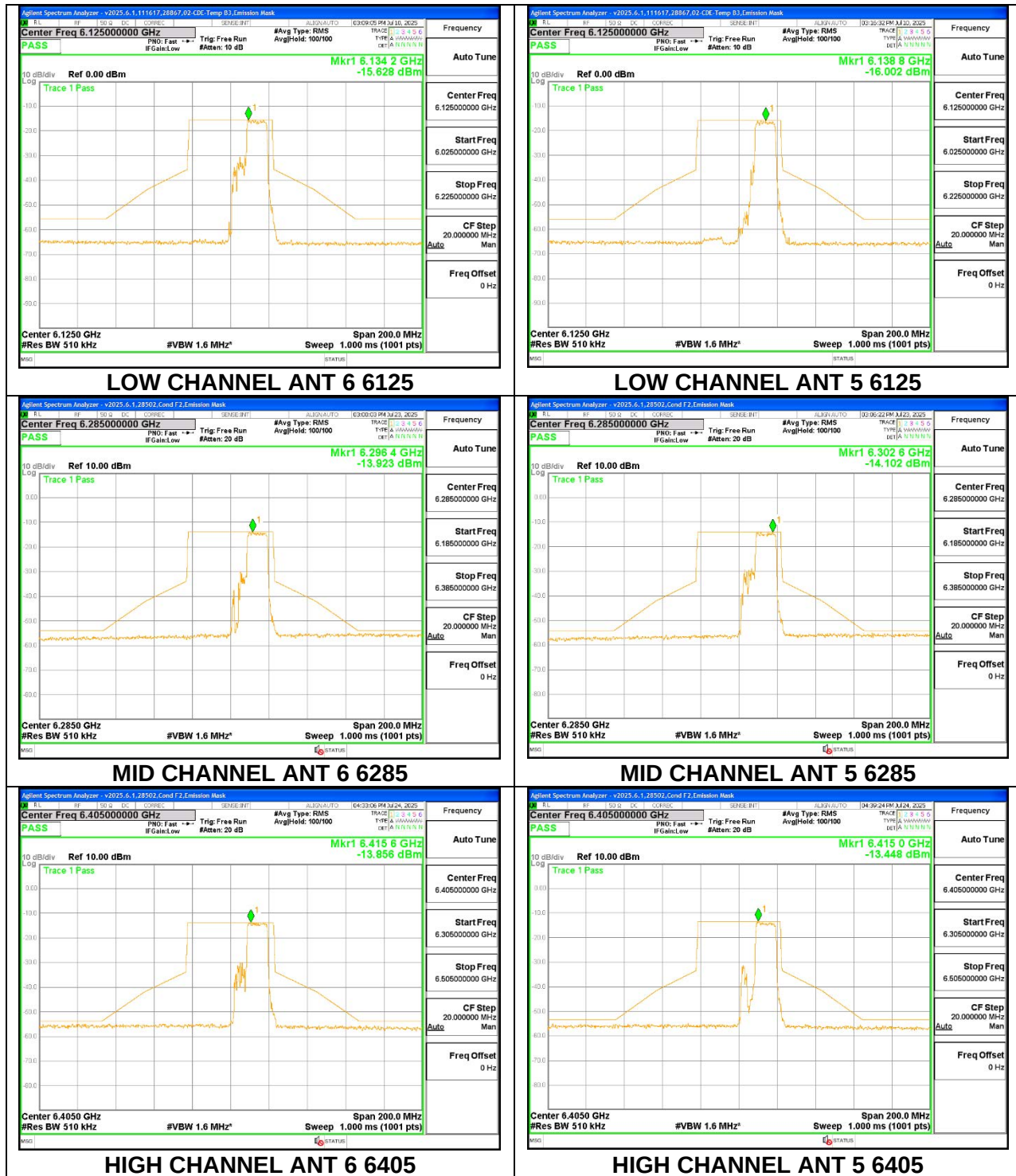
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tones, RU Index 82**LOW CHANNEL 6125****MID CHANNEL 6285****HIGH CHANNEL 6405**

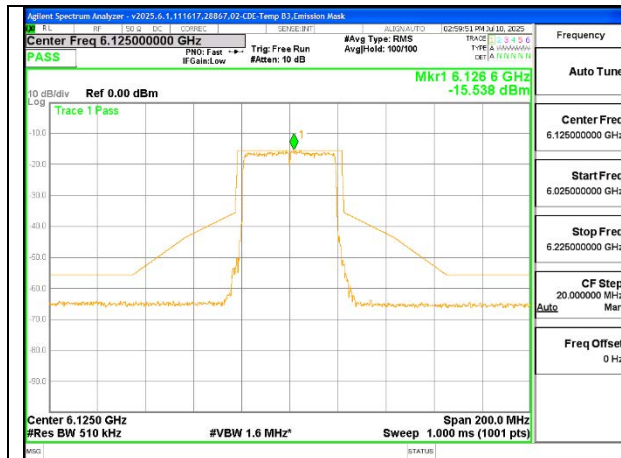
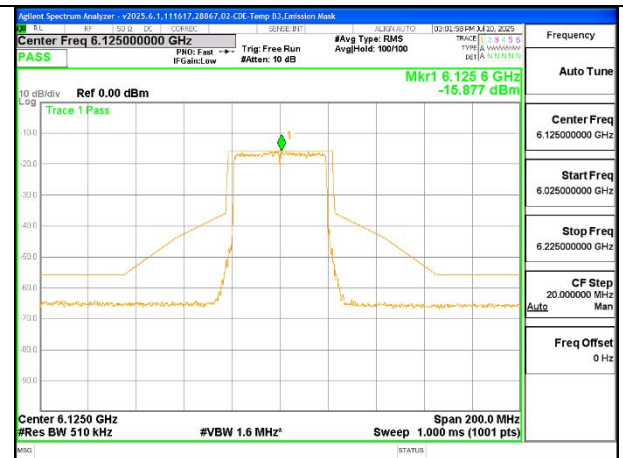
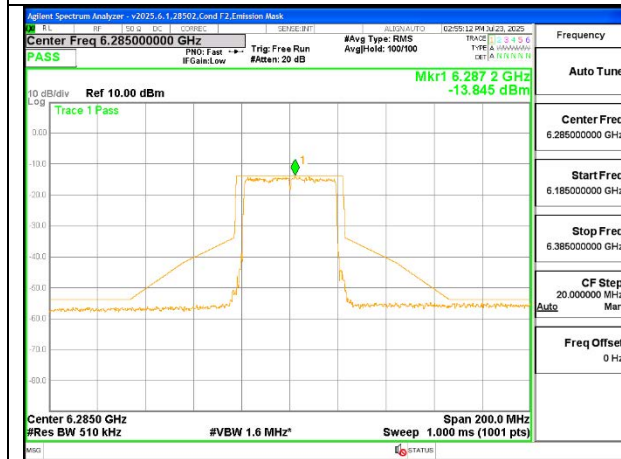
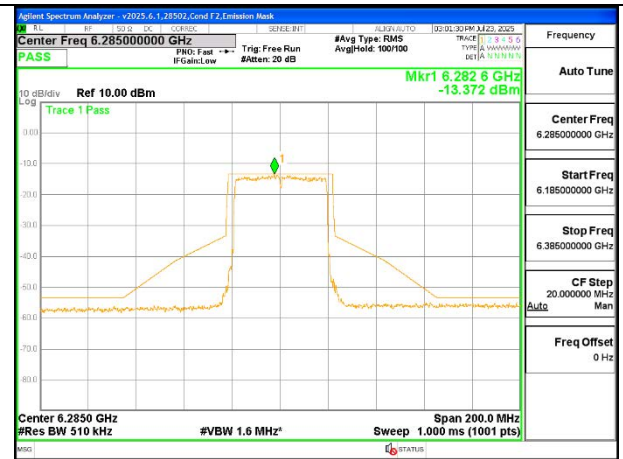
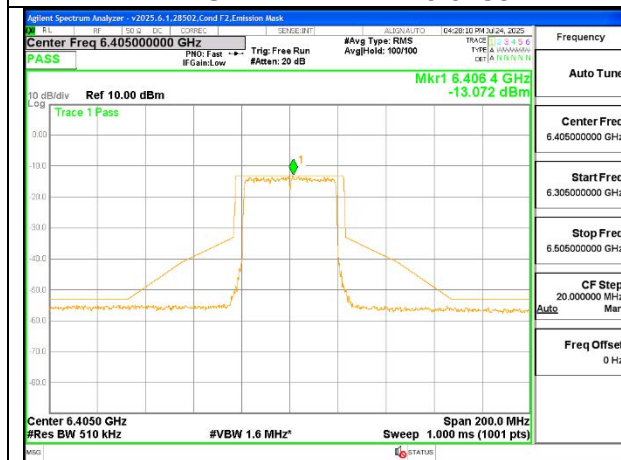
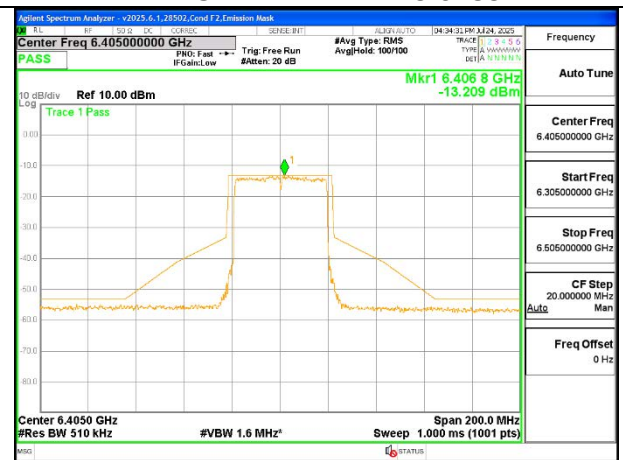
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tones, RU Index 84**1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tones, RU Index 85**

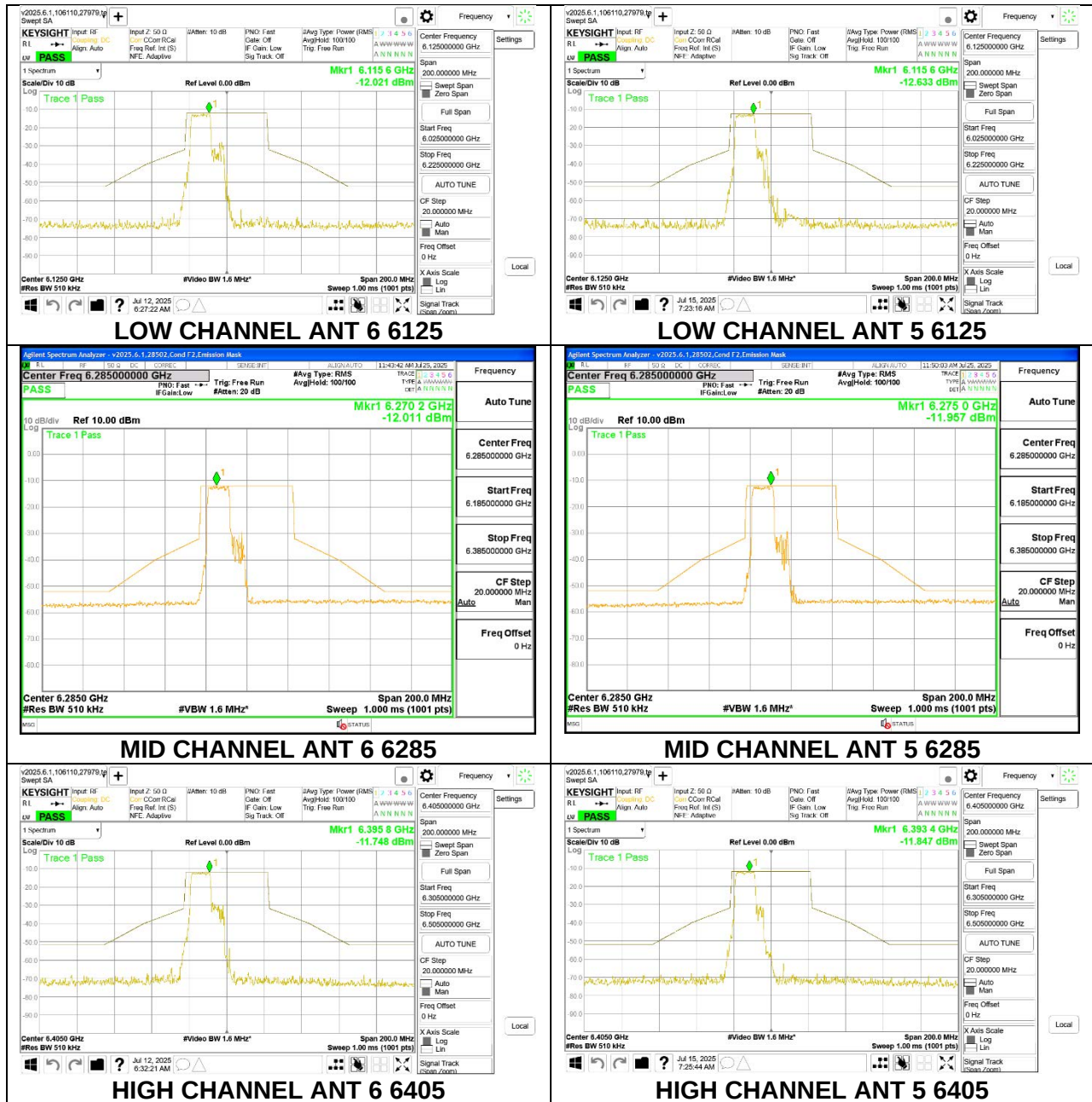
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 6125****MID CHANNEL 6285****HIGH CHANNEL 6405**

2TX CDD MODE (FCC + IC) – 106+26-Tones, RU Index 82**LOW CHANNEL ANT 6 6125****LOW CHANNEL ANT 5 6125****MID CHANNEL ANT 6 6285****MID CHANNEL ANT 5 6285****HIGH CHANNEL ANT 6 6405****HIGH CHANNEL ANT 5 6405**

2TX CDD MODE (FCC + IC) – 106+26-Tones, RU Index 84

2TX CDD MODE (FCC + IC) – 106+26-Tones, RU Index 85

2TX CDD MODE (FCC + IC) – SU MODE**LOW CHANNEL ANT 6 6125****LOW CHANNEL ANT 5 6125****MID CHANNEL ANT 6 6285****MID CHANNEL ANT 5 6285****HIGH CHANNEL ANT 6 6405****HIGH CHANNEL ANT 5 6405**

2TX SDM MODE (FCC + IC) – 106+26-Tones, RU Index 82

2TX SDM MODE (FCC + IC) – 106+26-Tones, RU Index 84