9.8 LP SPURIOUS EMMISSIONS 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	MRU106+26T: 300kHz/910kHz 106T: 300kHz/910kHz	52T: 510kHz/1.6MHz 106T: 510kHz/1.6MHz MRU106+26T: 510kHz/1.6MHz	52T: 510kHz/1.6MHz 52T: 820kHz/2.7MHz 106T: 510kHz/1.6MHz MRU106+26T: 510kHz/1.6MHz	106T: 510kHz/1.6MHz 52T: 510kHz/1.6MHz 242T: 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 mid 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.

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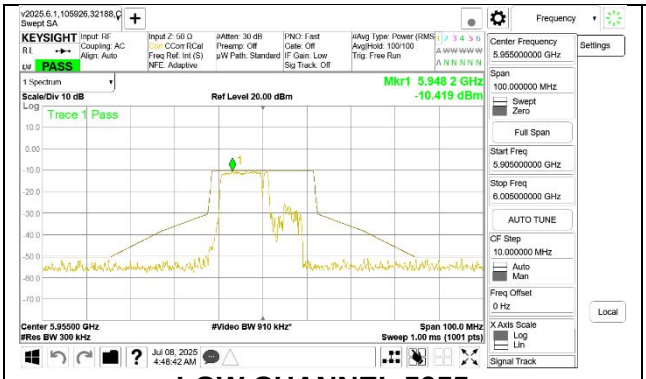
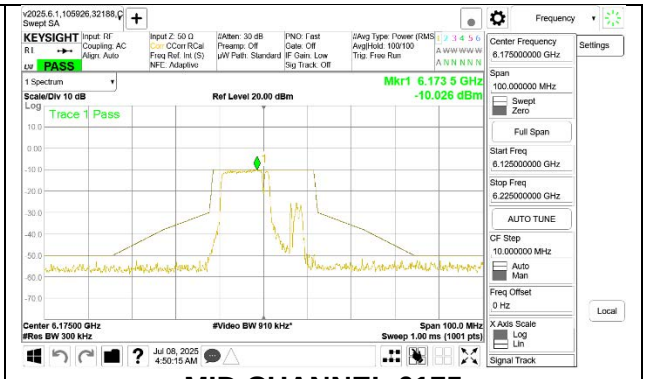
9.8.1 802.11be EHT20 MODE IN THE UNII-5 BAND

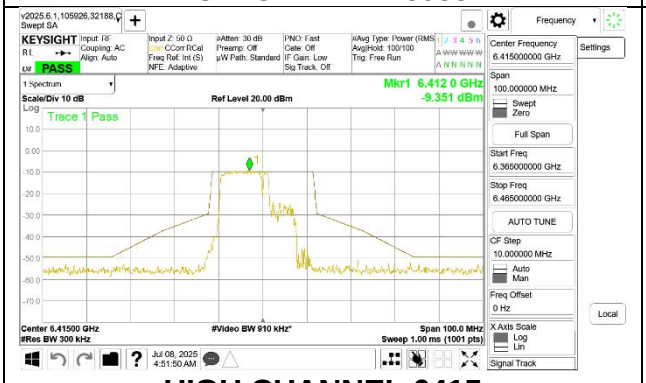
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82



LOW CHANNEL 5955

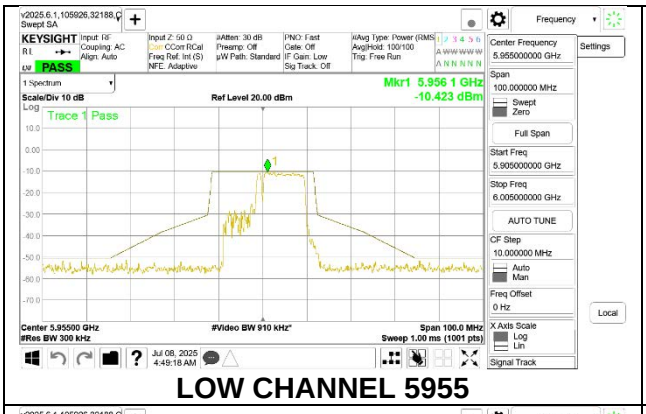


MID CHANNEL 6175

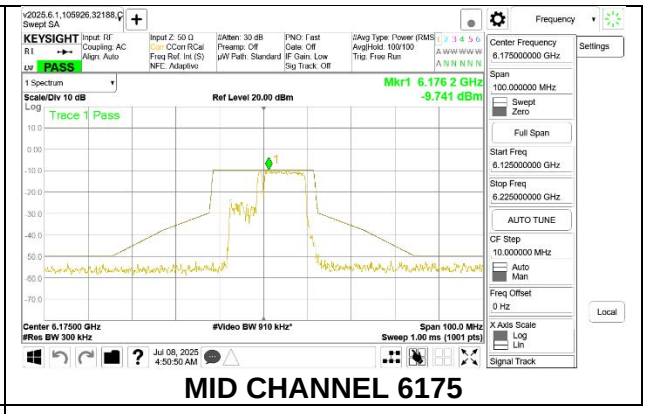


HIGH CHANNEL 6415

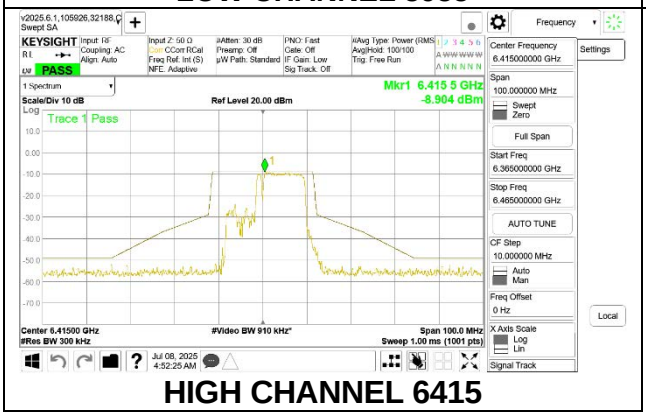
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83



LOW CHANNEL 5955

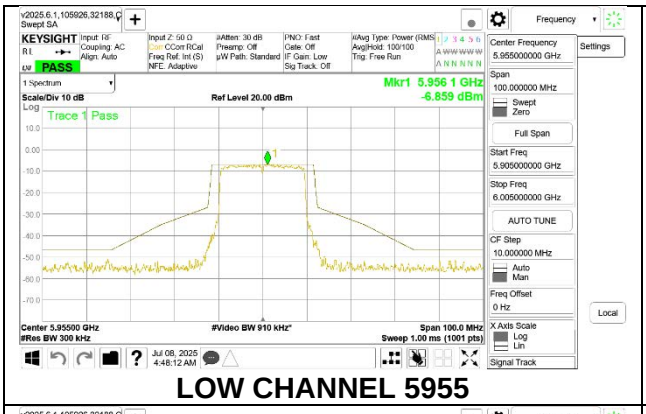


MID CHANNEL 6175

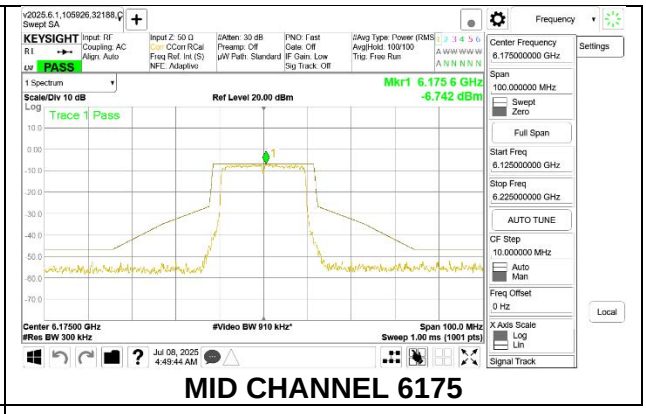


HIGH CHANNEL 6415

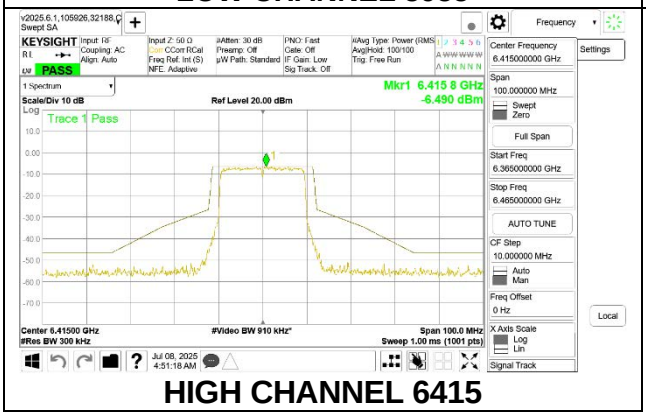
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5955

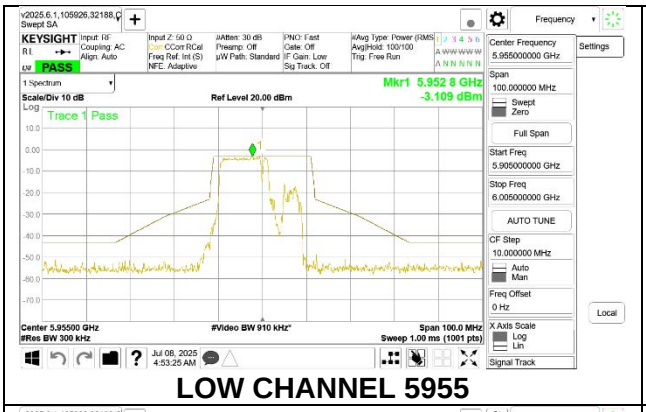


MID CHANNEL 6175

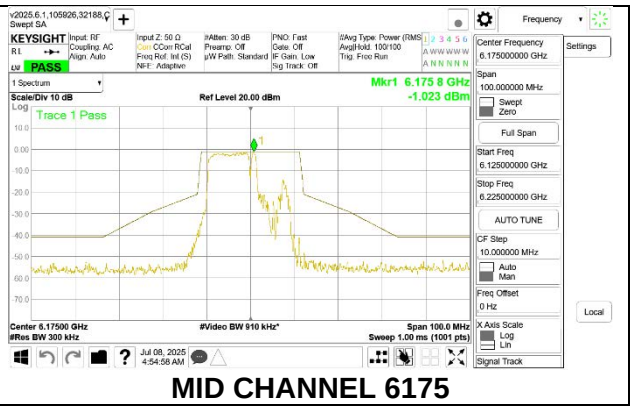


HIGH CHANNEL 6415

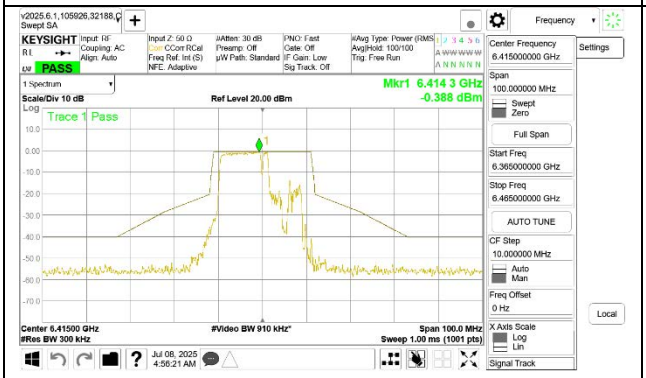
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82



LOW CHANNEL 5955

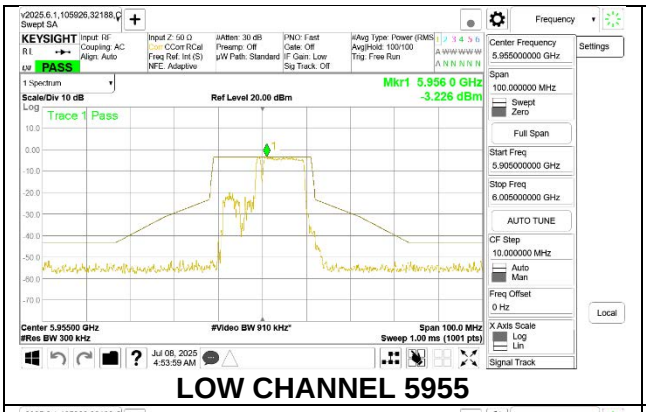


MID CHANNEL 6175



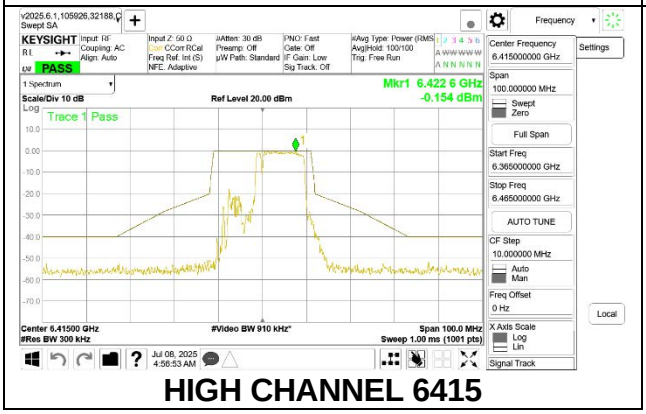
HIGH CHANNEL 6415

1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83



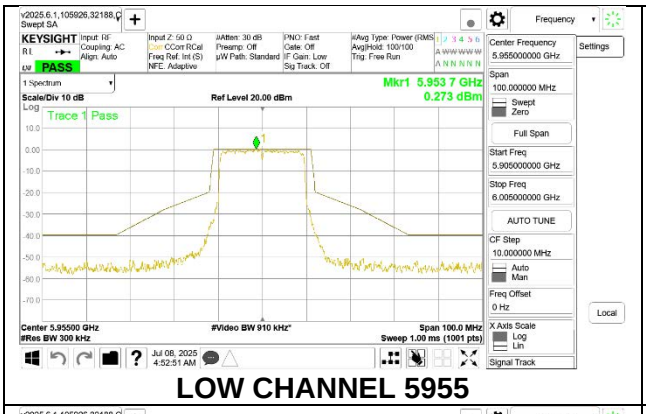
LOW CHANNEL 5955

MID CHANNEL 6175

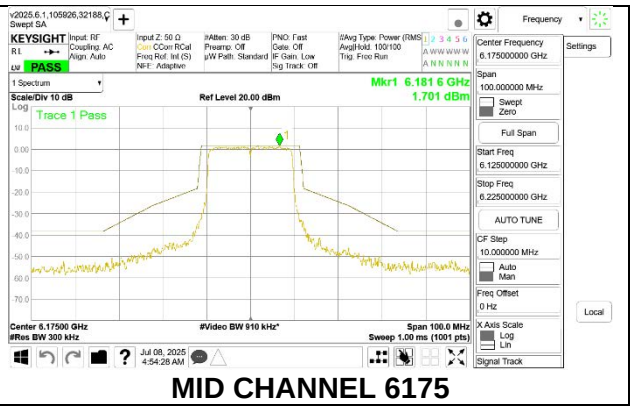


HIGH CHANNEL 6415

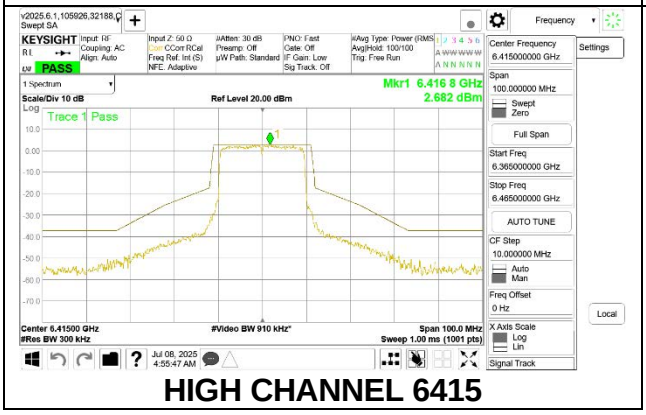
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5955

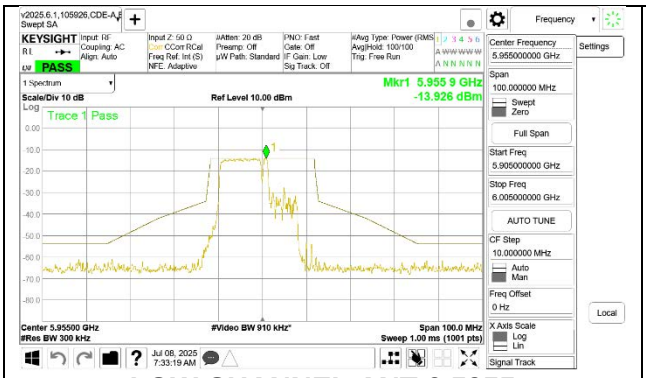


MID CHANNEL 6175

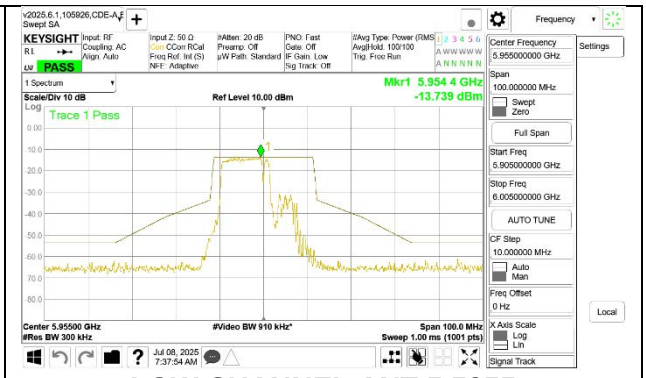


HIGH CHANNEL 6415

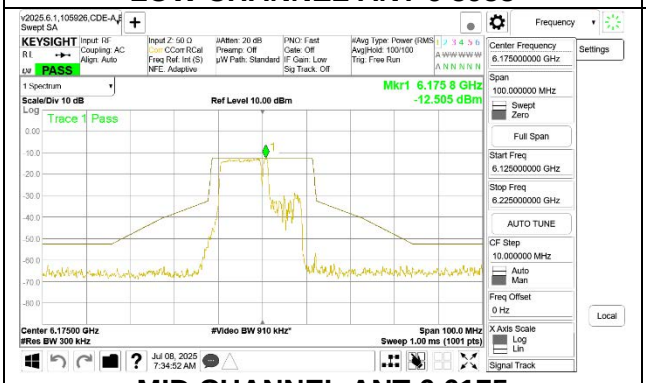
2TX CDD MODE (FCC + IC) – MRU106+26-Tones, RU Index 82



LOW CHANNEL ANT 6 5955

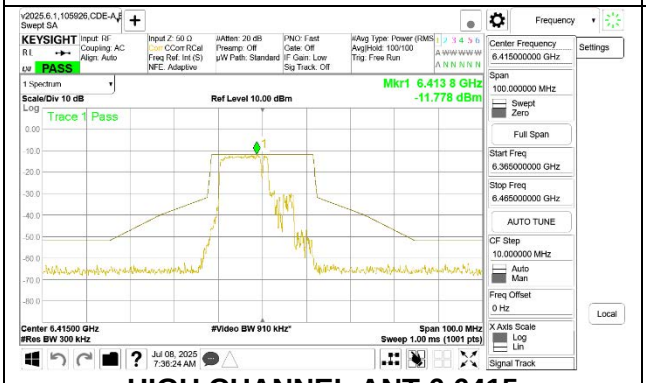


LOW CHANNEL ANT 5 5955

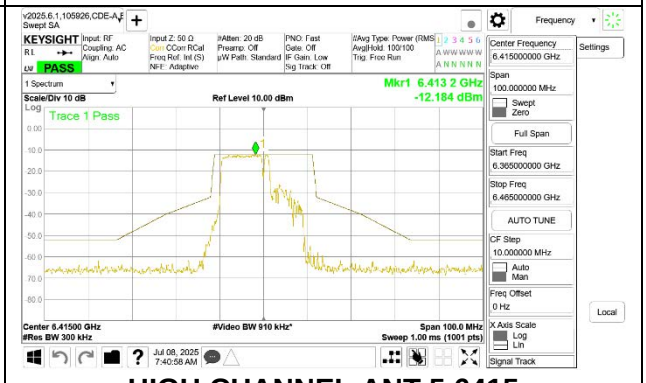


MID CHANNEL ANT 6 6175

MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415



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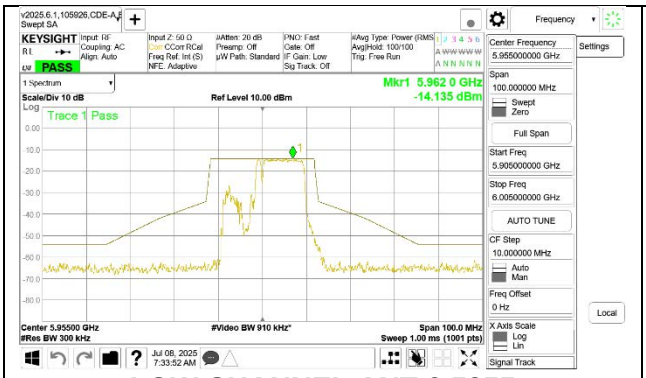
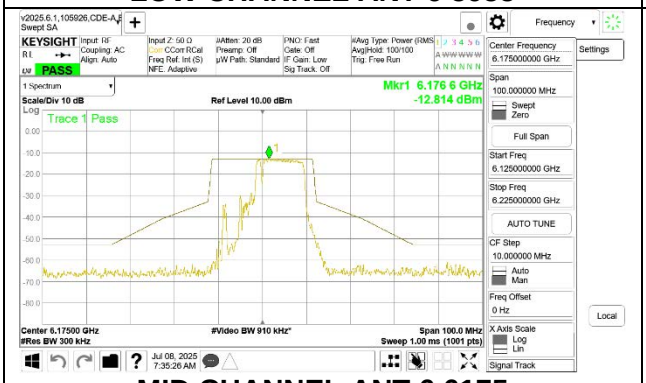
2TX CDD MODE (FCC + IC) – MRU106+26T-Tones, RU Index 83



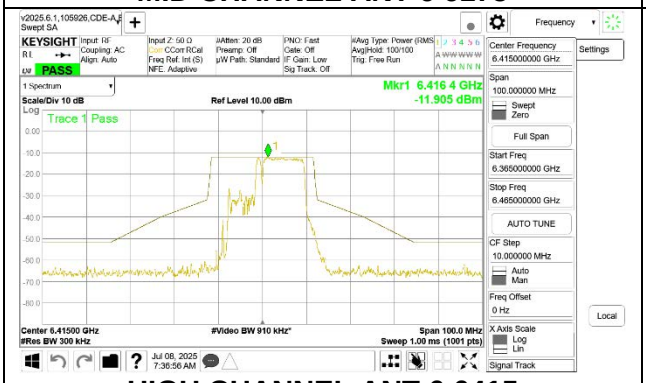
LOW CHANNEL ANT 6 5955

LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175

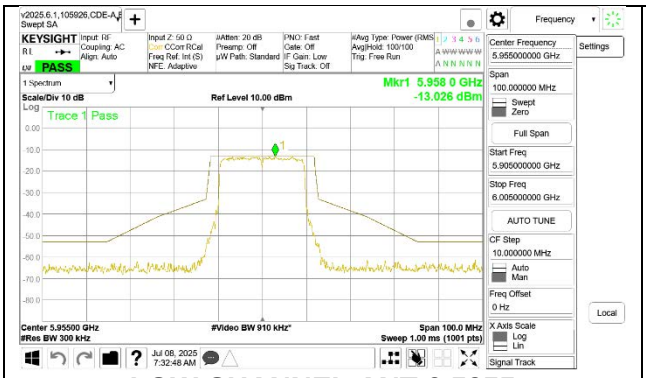
MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415

HIGH CHANNEL ANT 5 6415

2TX CDD MODE (FCC + IC) – SU MODE

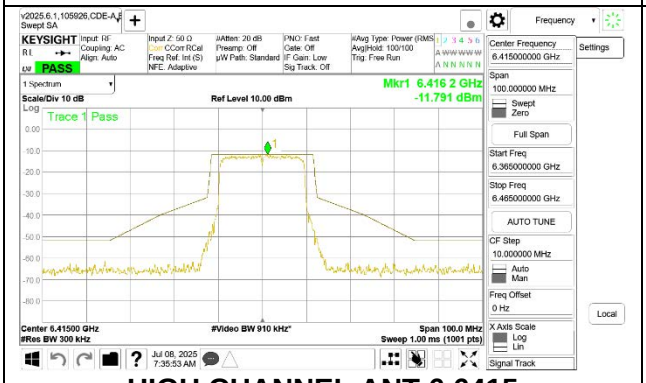


LOW CHANNEL ANT 6 5955

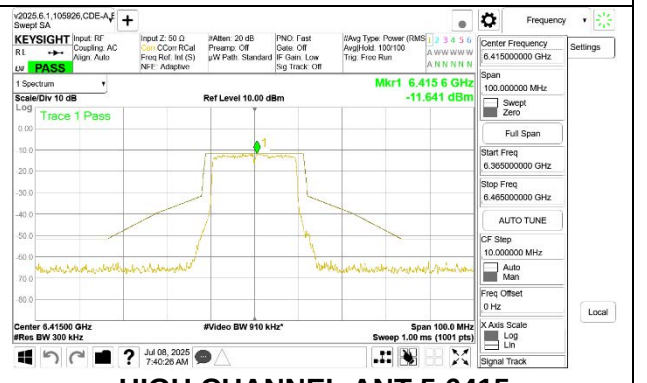
LOW CHANNEL ANT 5 5955

MID CHANNEL ANT 6 6175

MID CHANNEL ANT 5 6175

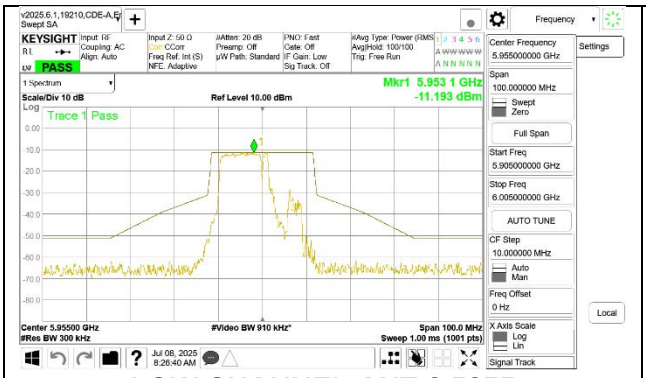


HIGH CHANNEL ANT 6 6415

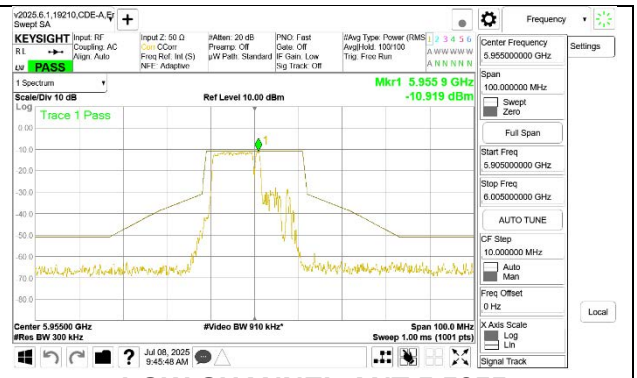


HIGH CHANNEL ANT 5 6415

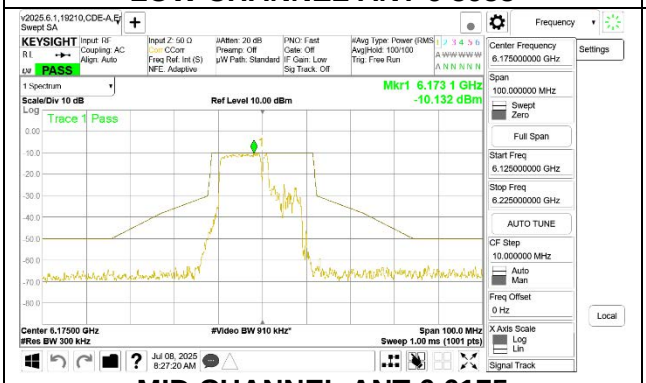
2TX SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 82



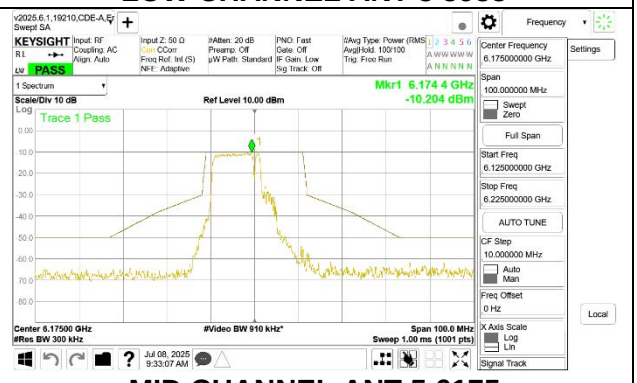
LOW CHANNEL ANT 6 5955



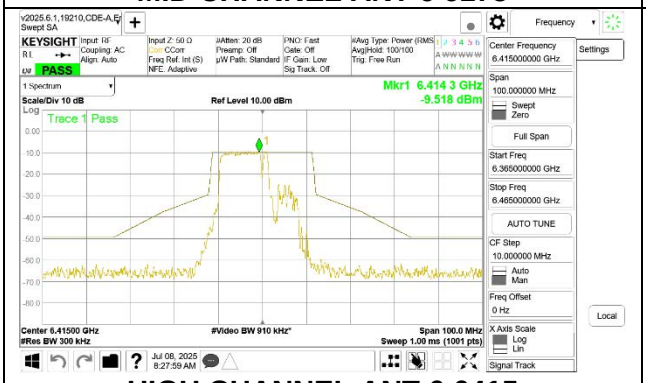
LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415

HIGH CHANNEL ANT 5 6415

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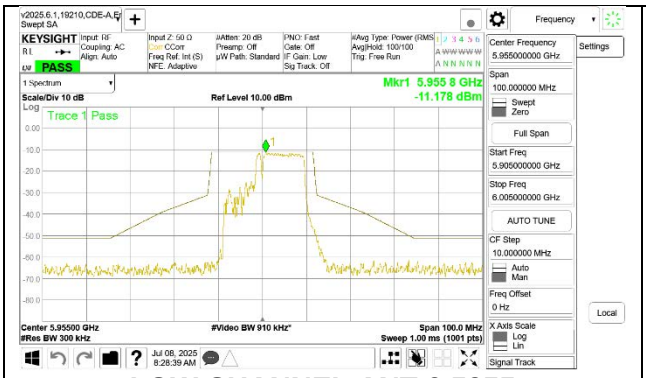
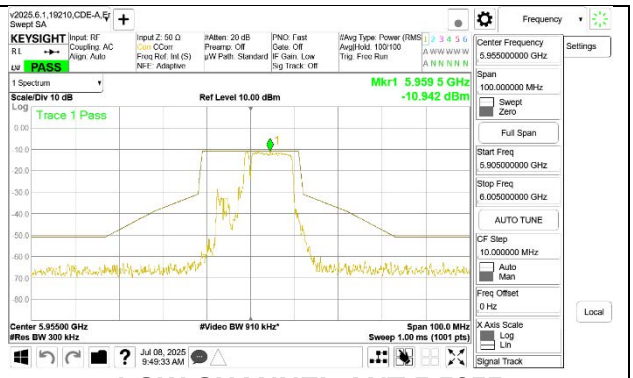
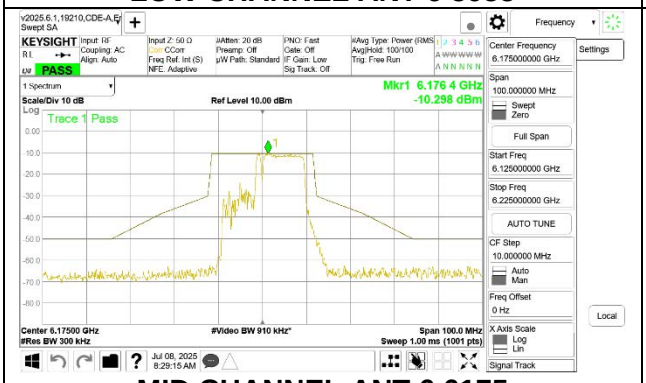
2TX SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 83



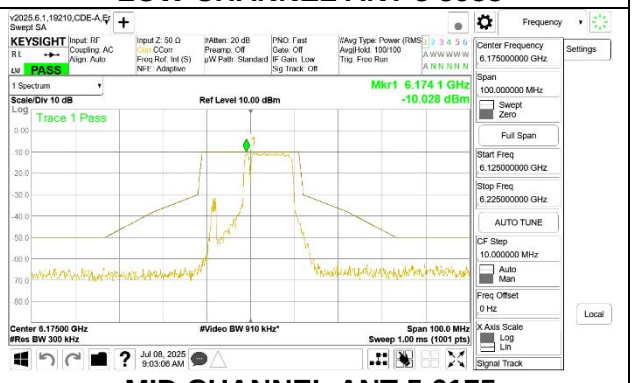
LOW CHANNEL ANT 6 5955



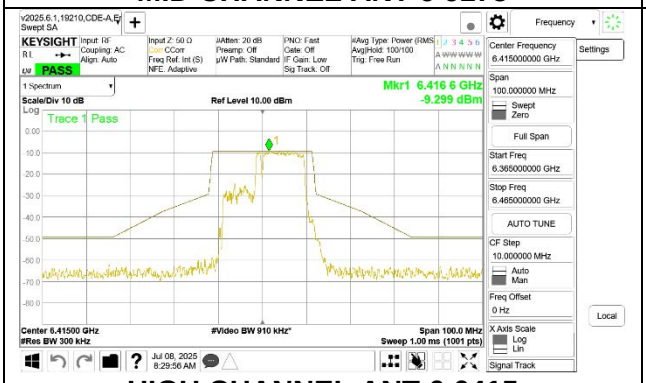
LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415

HIGH CHANNEL ANT 5 6415

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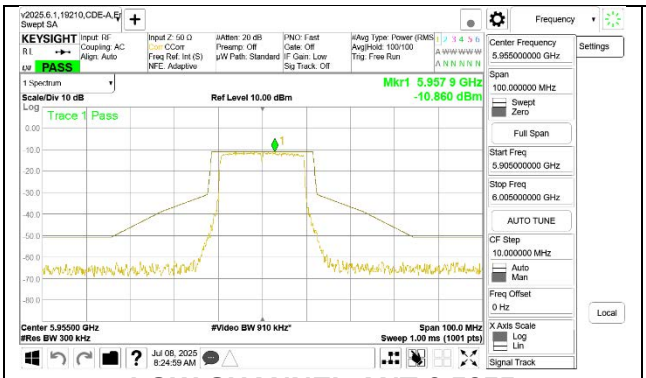
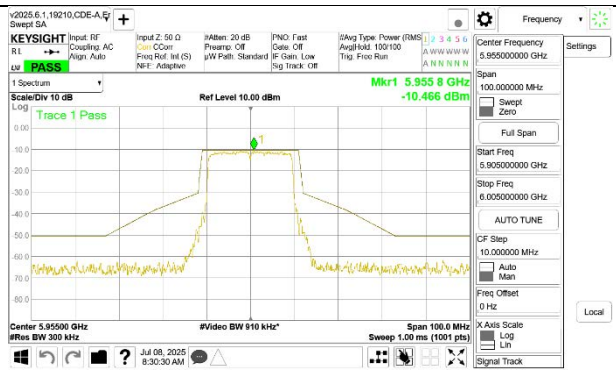
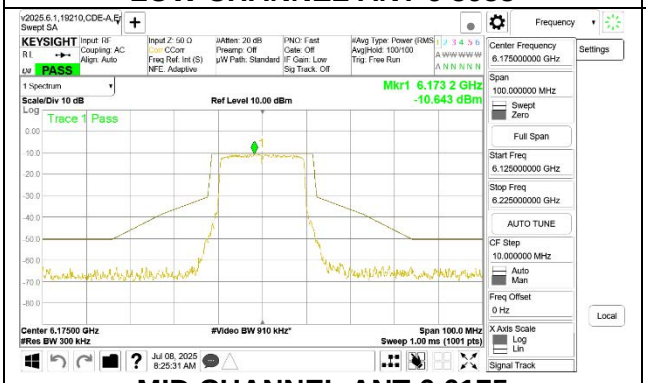
2TX SDM MODE (FCC + IC) – SU Mode



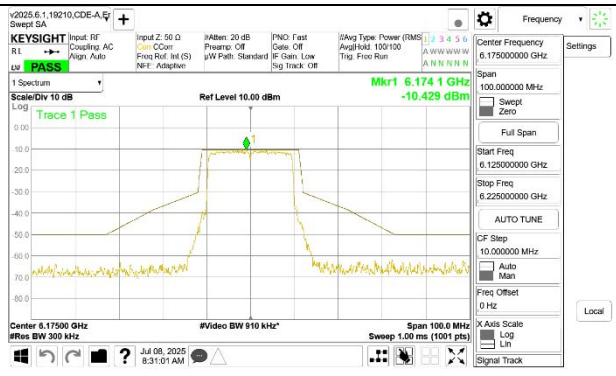
LOW CHANNEL ANT 6 5955



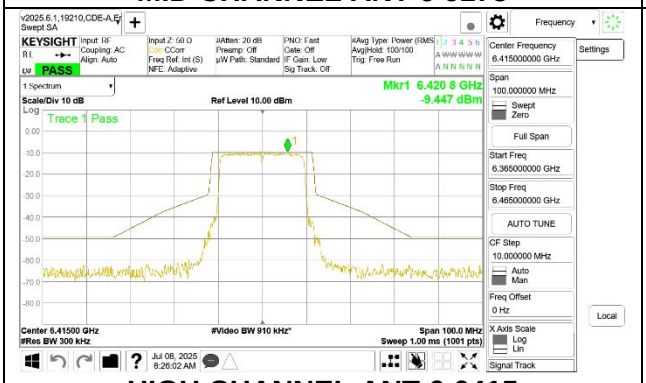
LOW CHANNEL ANT 5 5955



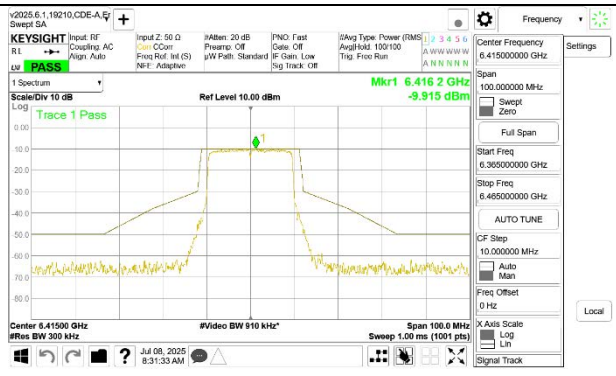
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

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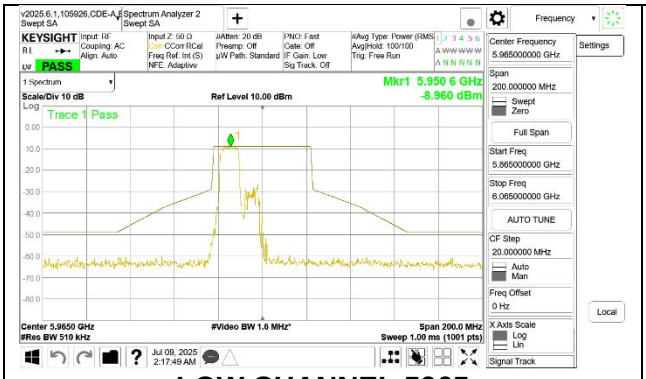
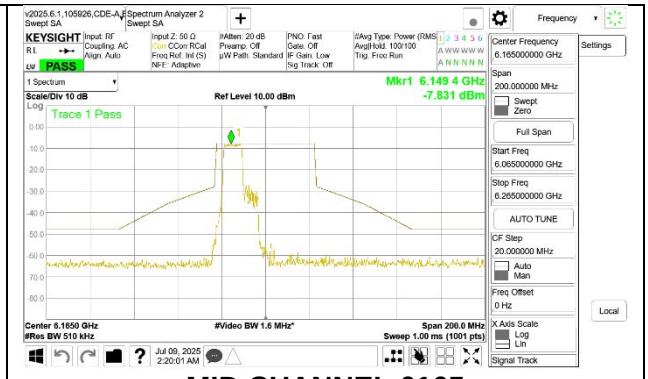
9.8.2 802.11be EHT40 MODE IN THE UNII-5 BAND

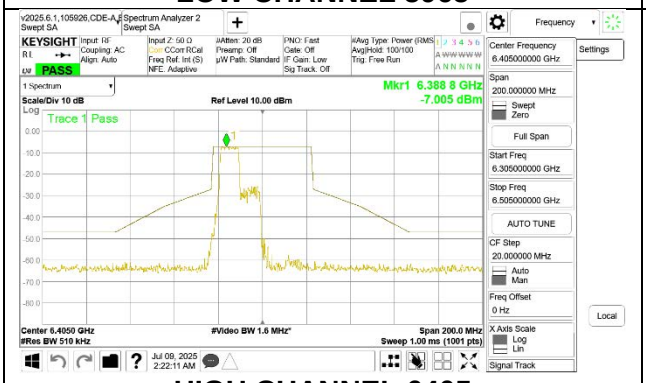
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53



LOW CHANNEL 5965

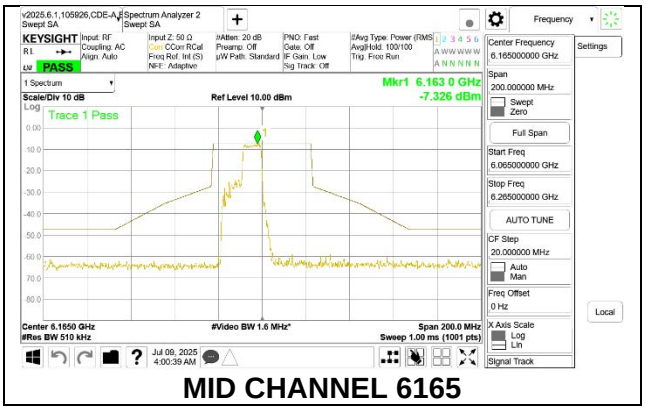


MID CHANNEL 6165



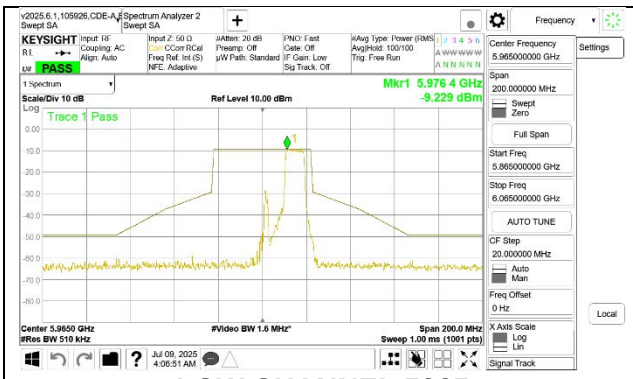
HIGH CHANNEL 6405

1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54

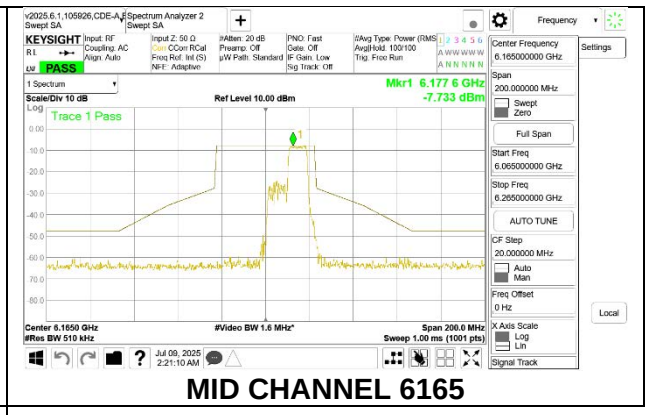


MID CHANNEL 6165

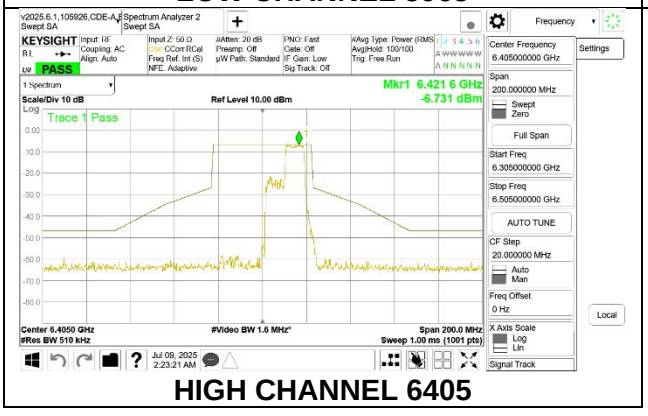
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 56



LOW CHANNEL 5965

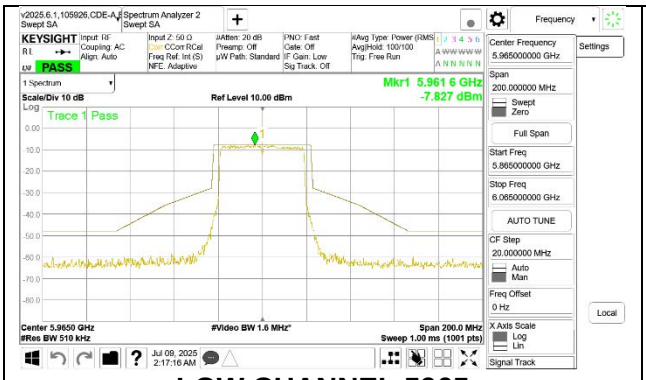


MID CHANNEL 6165

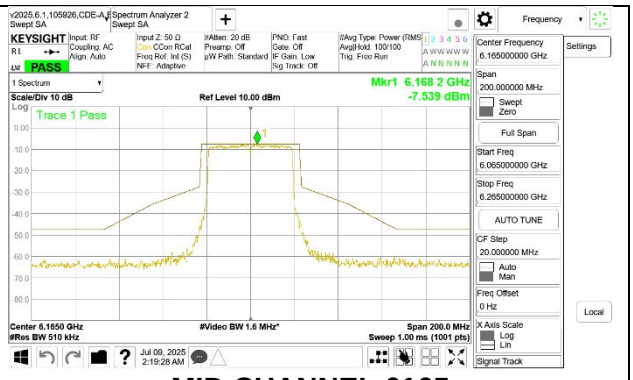


HIGH CHANNEL 6405

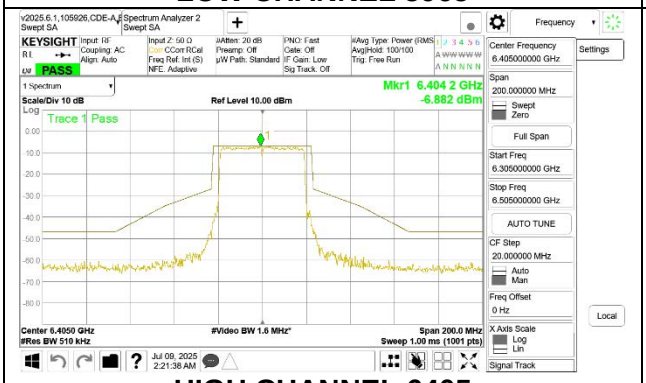
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5965



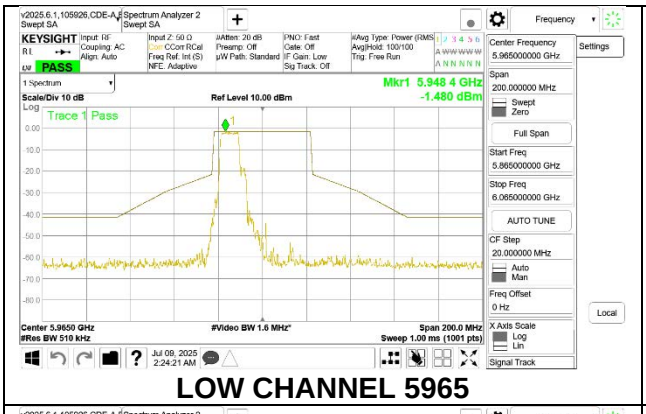
MID CHANNEL 6165



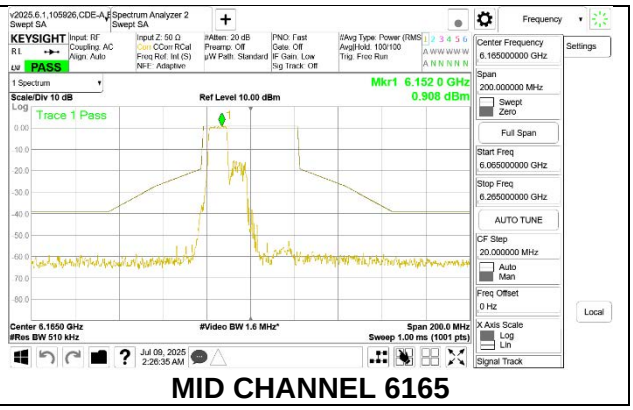
HIGH CHANNEL 6405

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

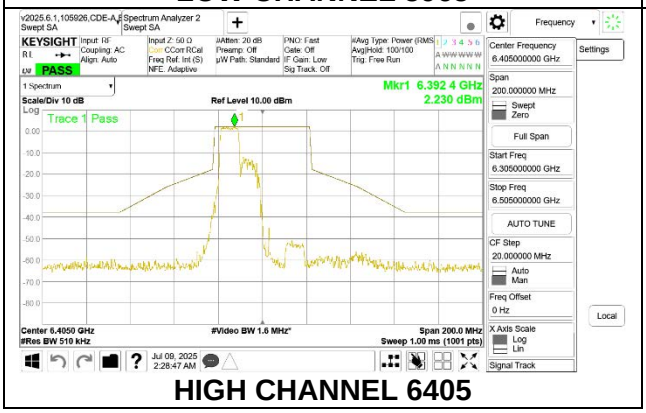
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53



LOW CHANNEL 5965



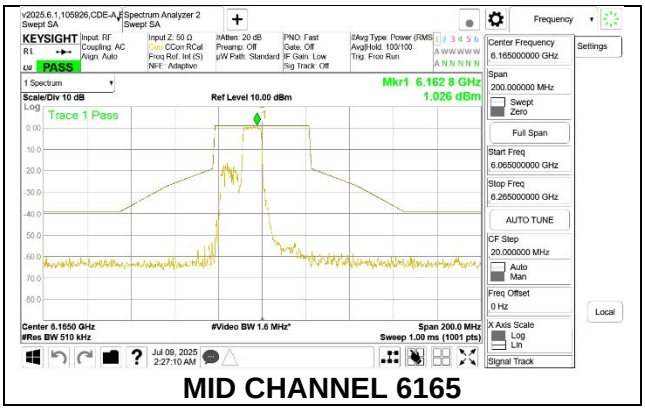
MID CHANNEL 6165



HIGH CHANNEL 6405

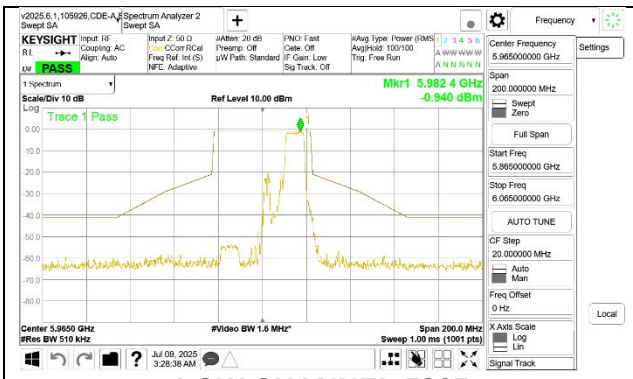
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54

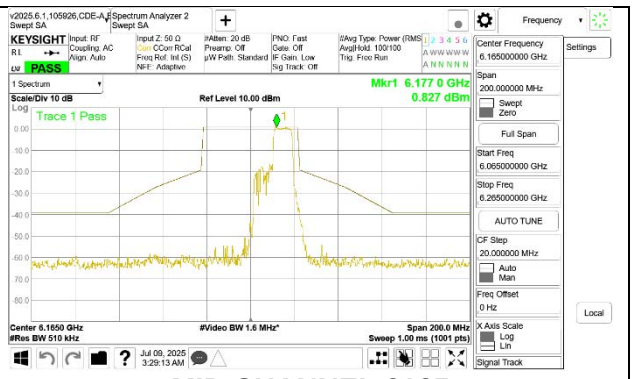


MID CHANNEL 6165

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 56



LOW CHANNEL 5965



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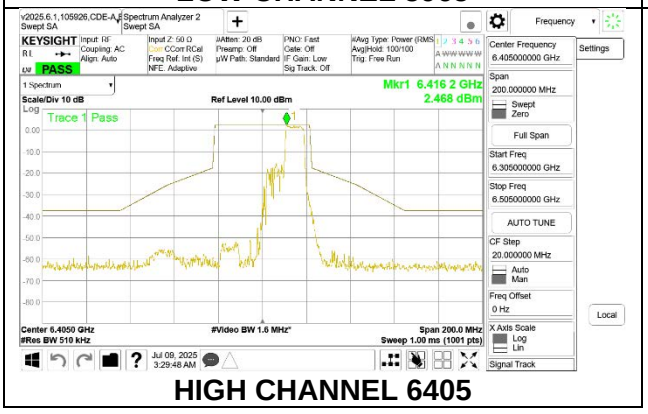
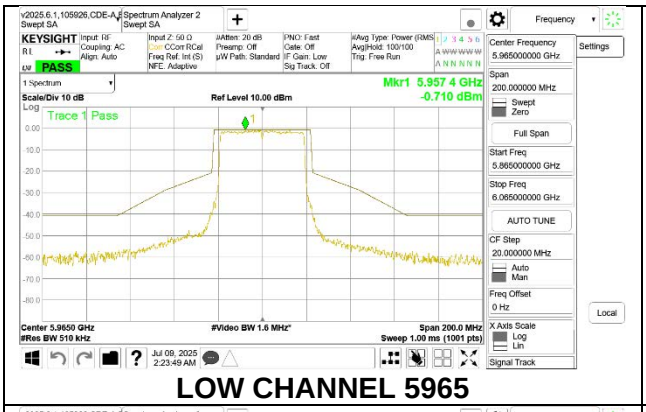
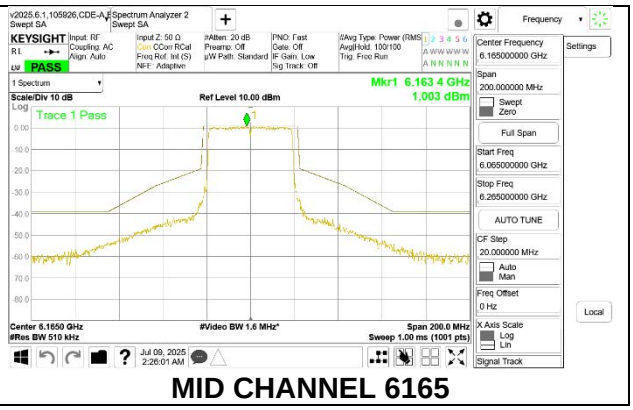


HIGH CHANNEL 6405

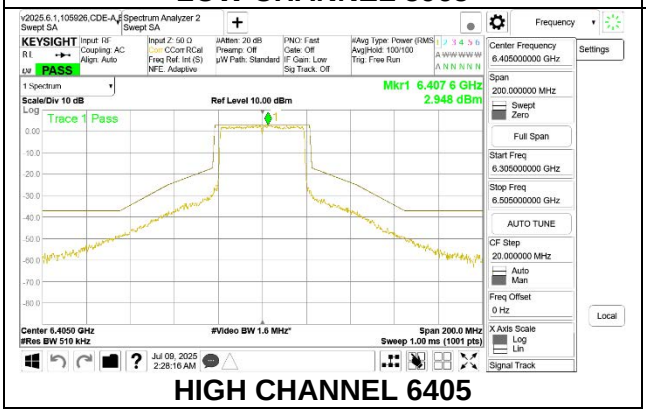
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5965



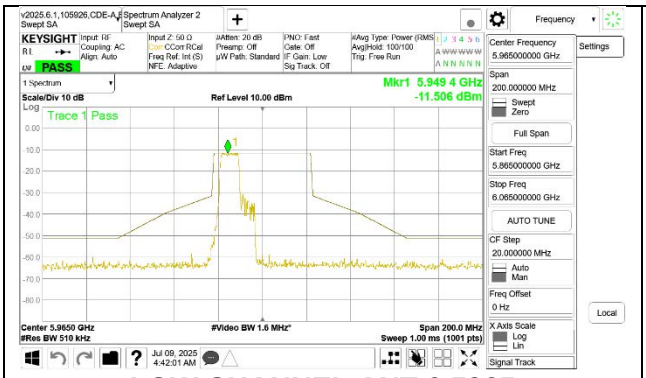
MID CHANNEL 6165



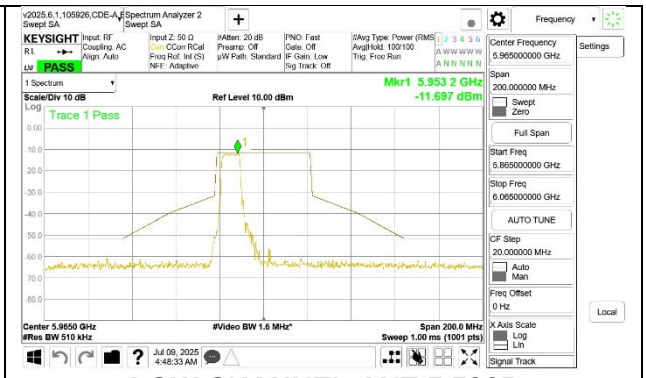
HIGH CHANNEL 6405

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

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



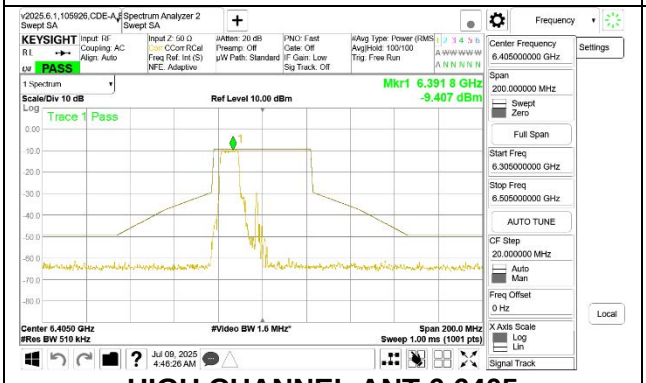
LOW CHANNEL ANT 6 5965



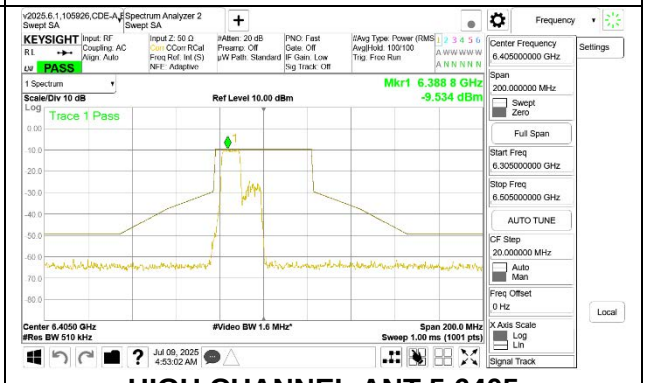
LOW CHANNEL ANT 5 5965

MID CHANNEL ANT 6 6165

MID CHANNEL ANT 5 6165



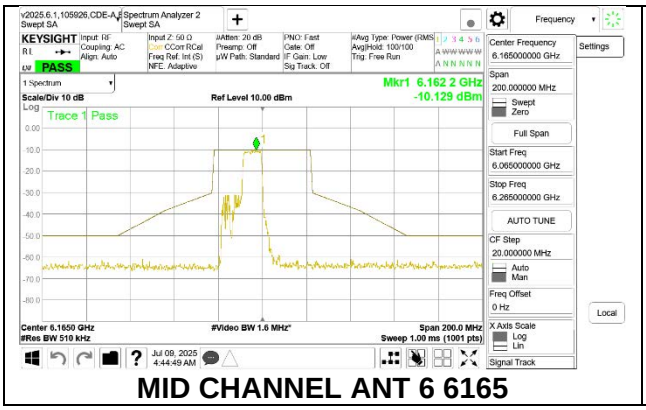
HIGH CHANNEL ANT 6 6405



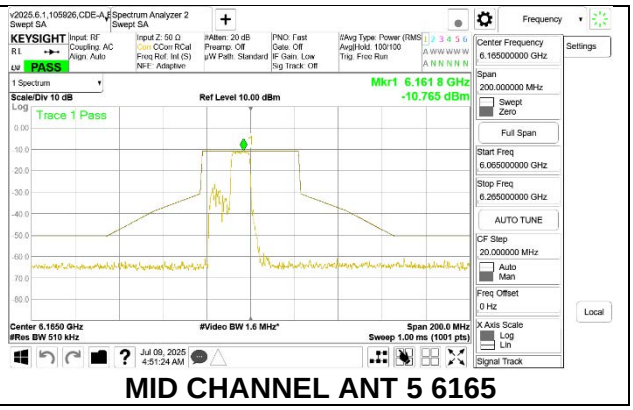
HIGH CHANNEL ANT 5 6405

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

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



MID CHANNEL ANT 6 6165



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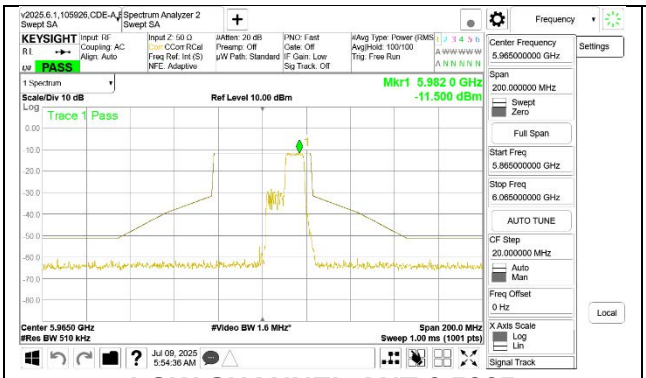
2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 56

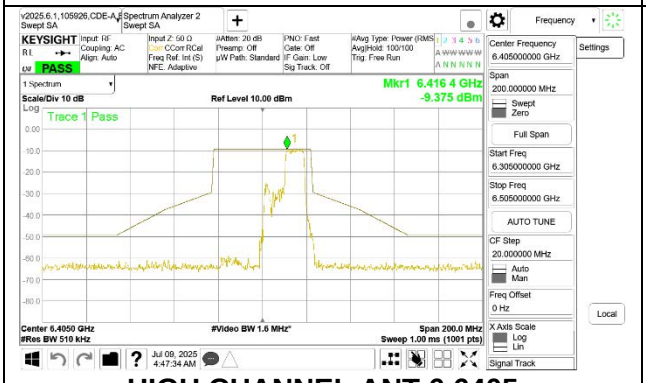


LOW CHANNEL ANT 6 5965

LOW CHANNEL ANT 5 5965

MID CHANNEL ANT 6 6165

MID CHANNEL ANT 5 6165



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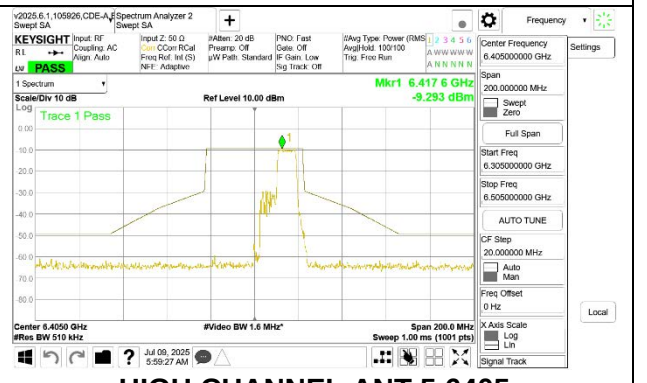
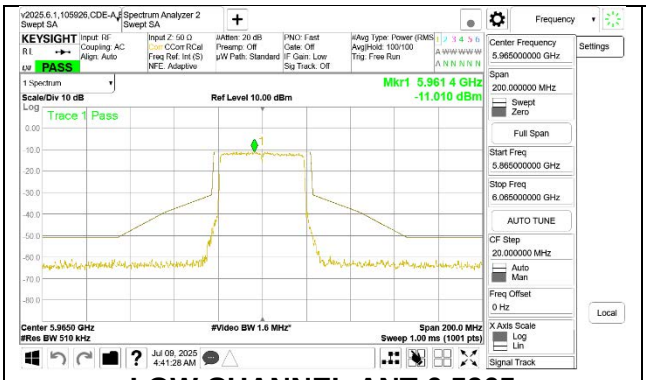


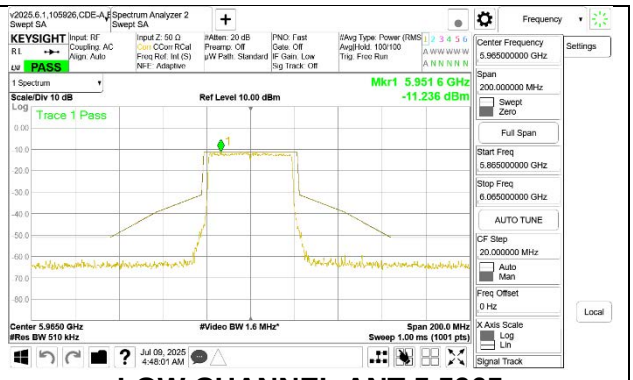
HIGH CHANNEL ANT 5 6405

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

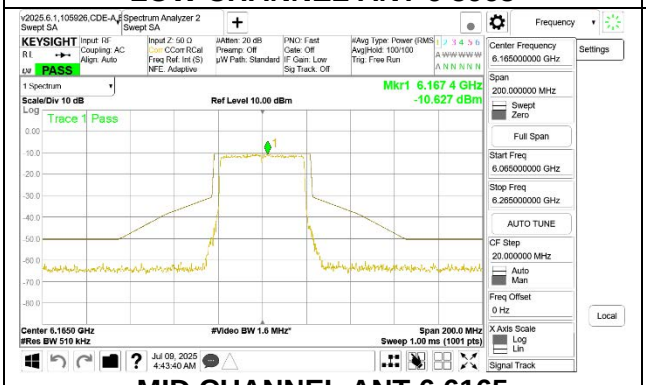
2TX CDD MODE (FCC + IC) – SU MODE



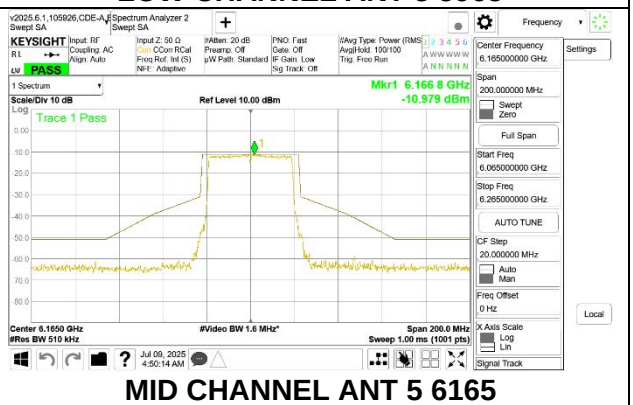
LOW CHANNEL ANT 6 5965



LOW CHANNEL ANT 5 5965



MID CHANNEL ANT 6 6165



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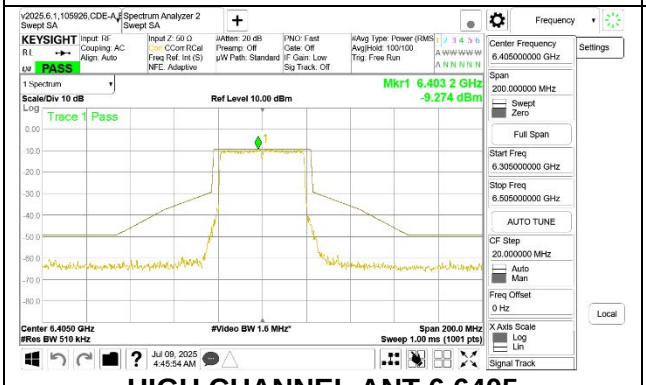
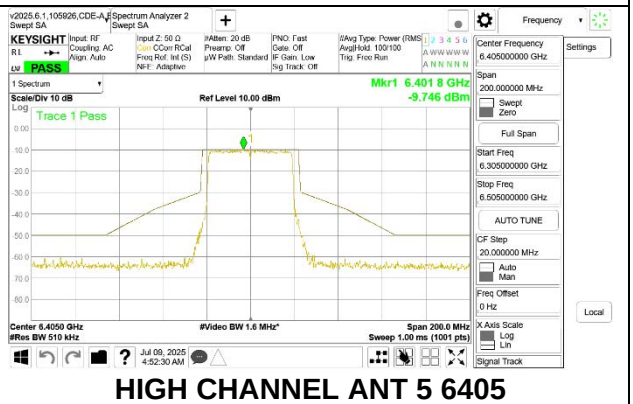


HIGH CHANNEL ANT 6 6405



HIGH CHANNEL ANT 5 6405

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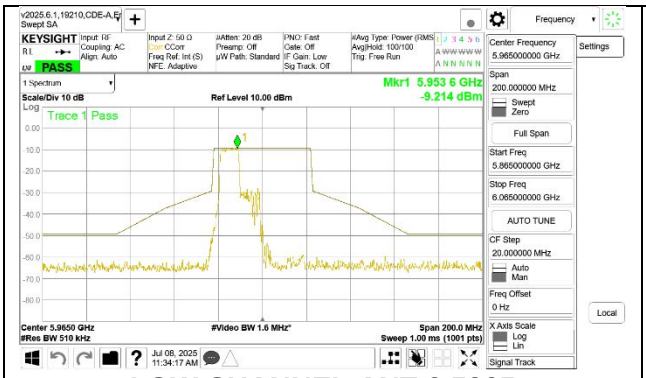
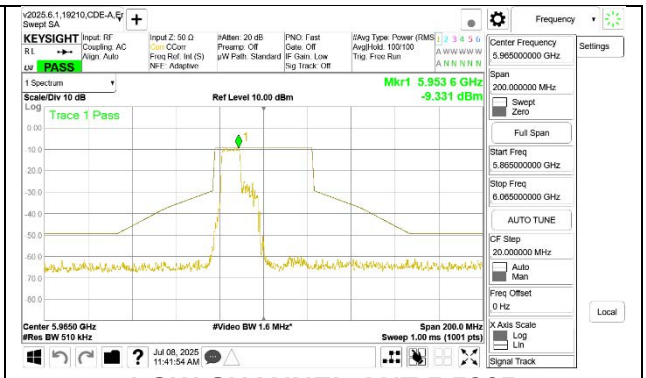
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

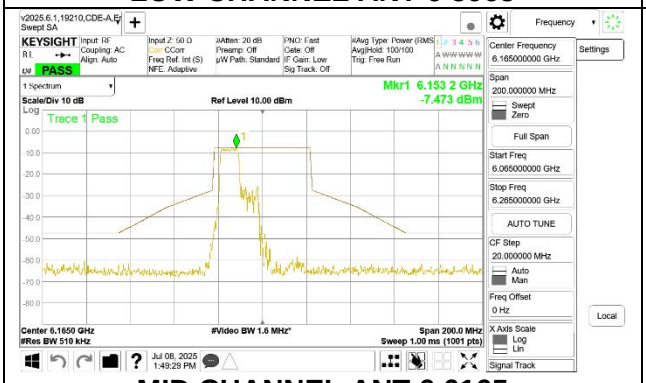
2TX SDM MODE (FCC + IC) – 106-Tones, RU Index 53



LOW CHANNEL ANT 6 5965



LOW CHANNEL ANT 5 5965



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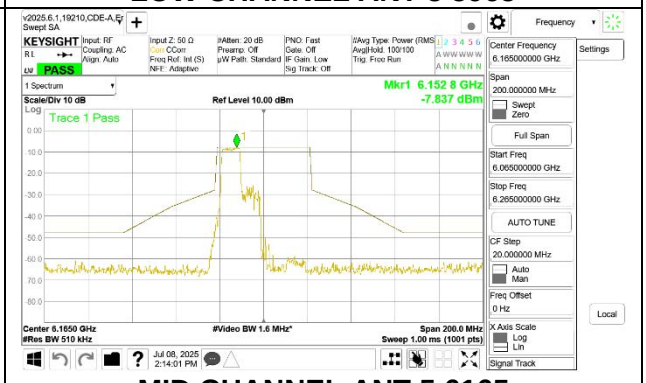

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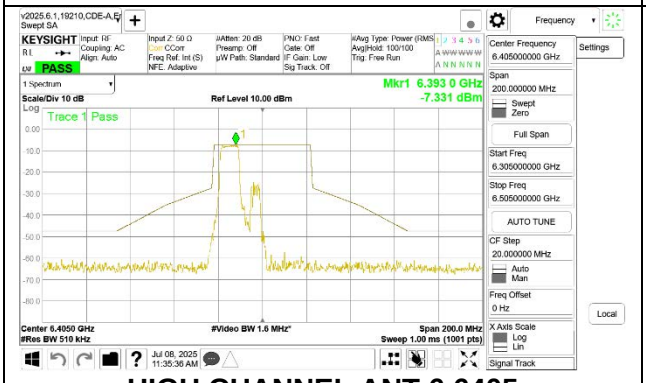
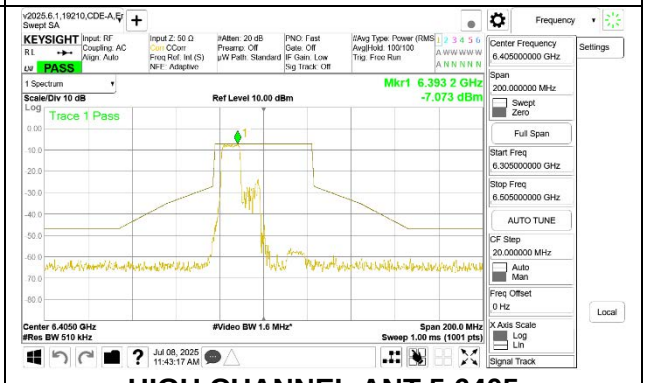


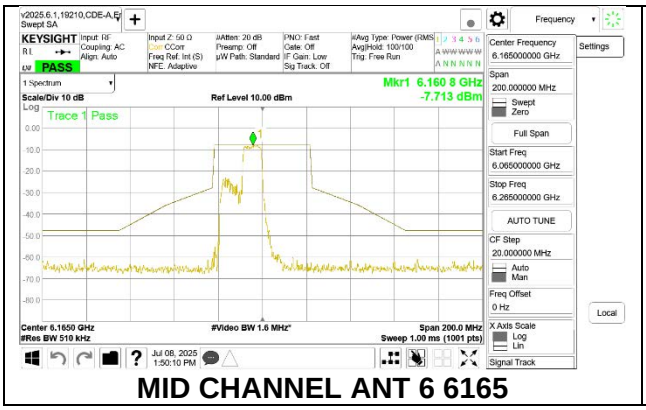
HIGH CHANNEL ANT 6 6405



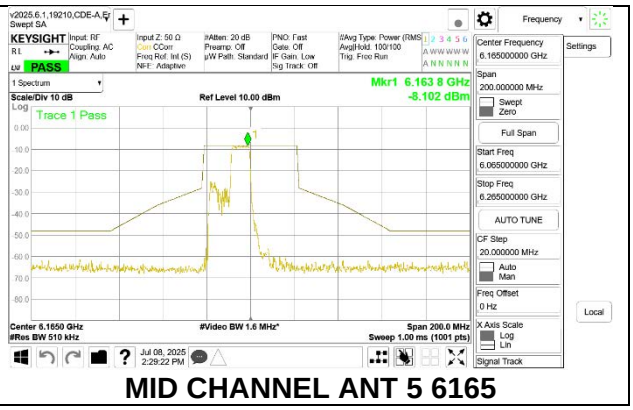
HIGH CHANNEL ANT 5 6405

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

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



MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165

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