

Appendix

Test Data

for BTEK250606024A01-T01

Start date	2025/7/21	Finish date	2025/7/21
Temperature	23.0°C	Humidity	54%
RF specifications	BLE-S2	Test Engineer	Zora



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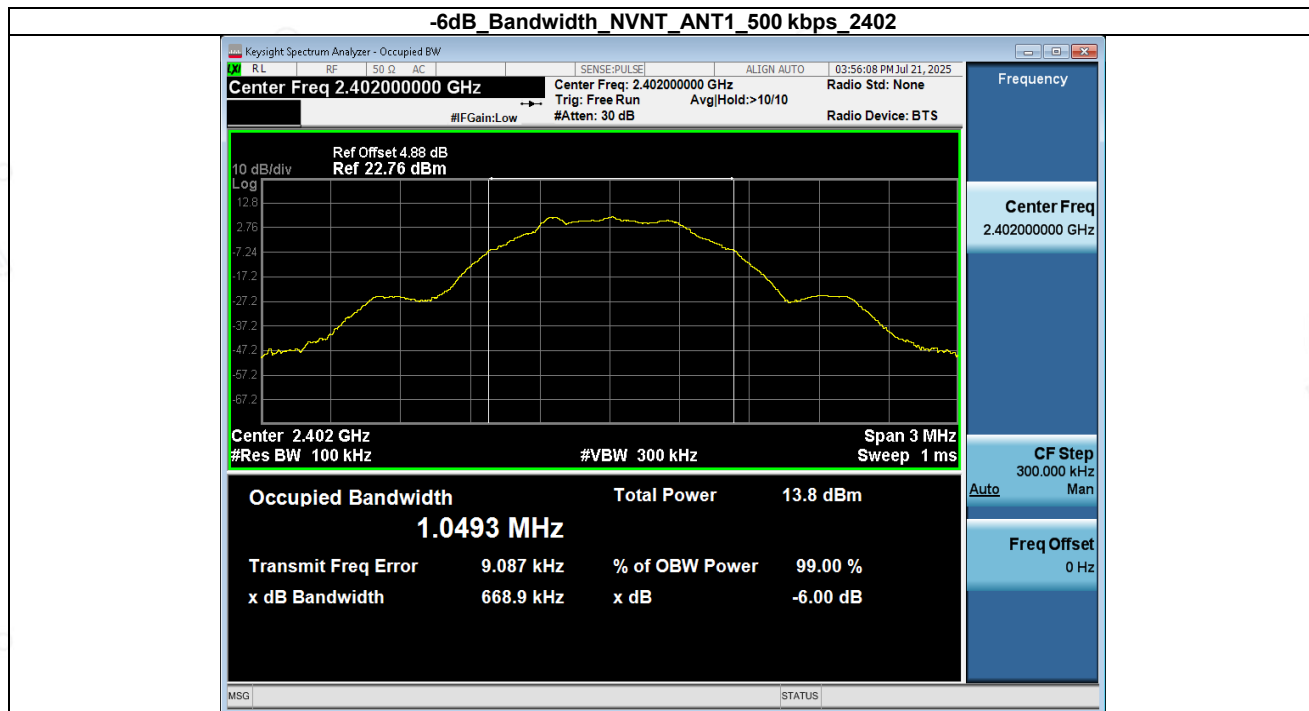
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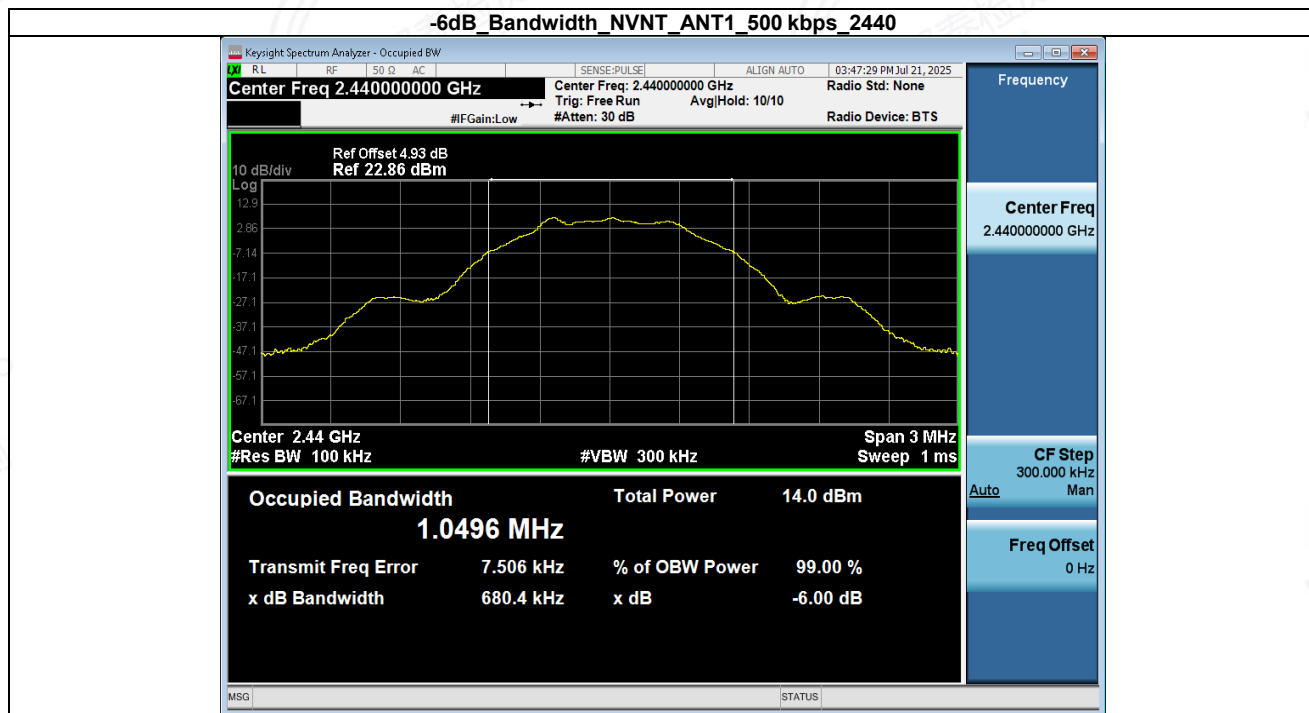
1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	500 kbps	2402.00	668.89	500	Pass
NVNT	ANT1	500 kbps	2440.00	680.36	500	Pass
NVNT	ANT1	500 kbps	2480.00	676.39	500	Pass

-6dB_Bandwidth_NVNT_ANT1_500 kbps_2402



-6dB_Bandwidth_NVNT_ANT1_500 kbps_2440



-6dB_Bandwidth_NVNT_ANT1_500 kbps_2480

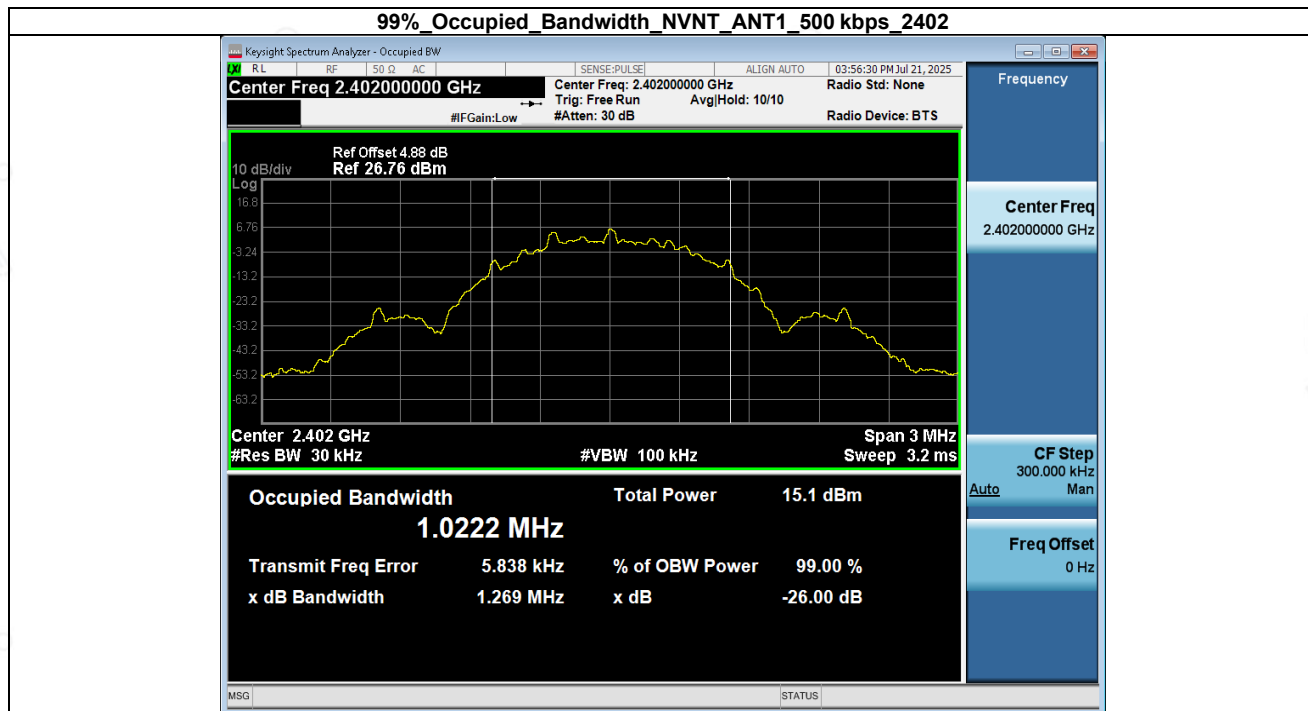




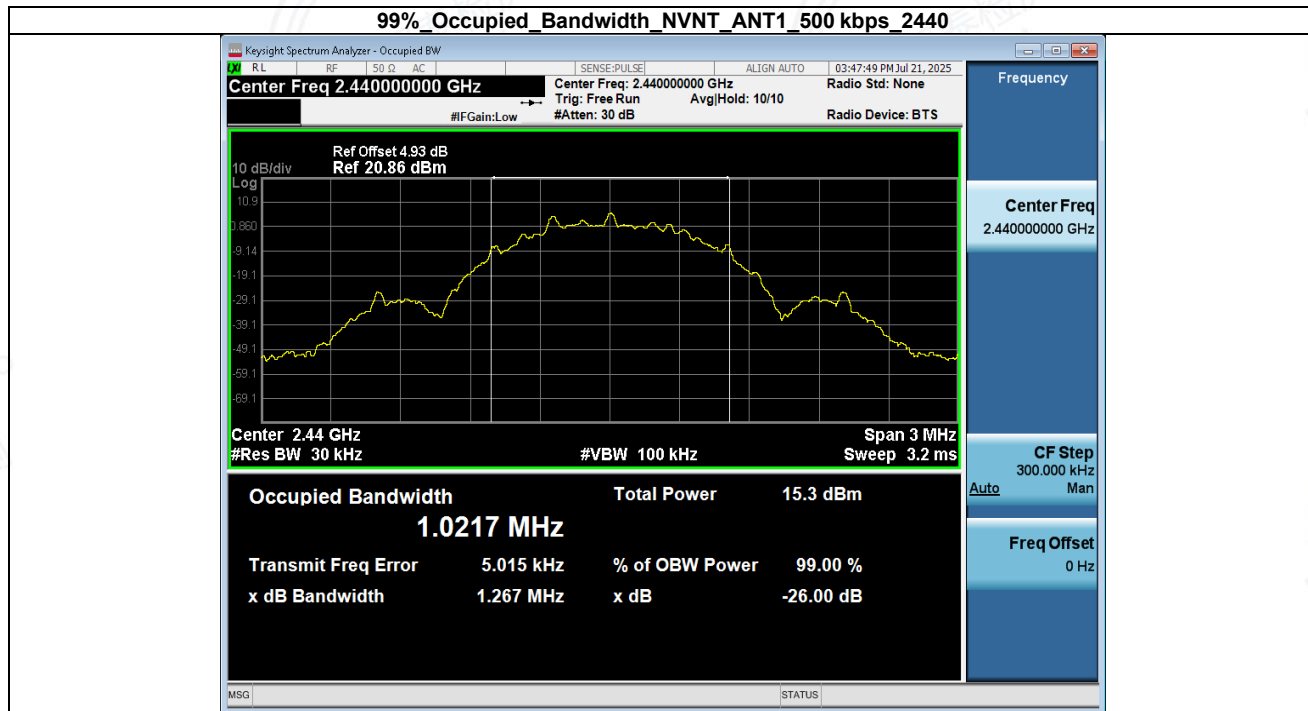
2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	500 kbps	2402.00	1.022
NVNT	ANT1	500 kbps	2440.00	1.022
NVNT	ANT1	500 kbps	2480.00	1.023

99%_Occupied_Bandwidth_NVNT_ANT1_500 kbps_2402

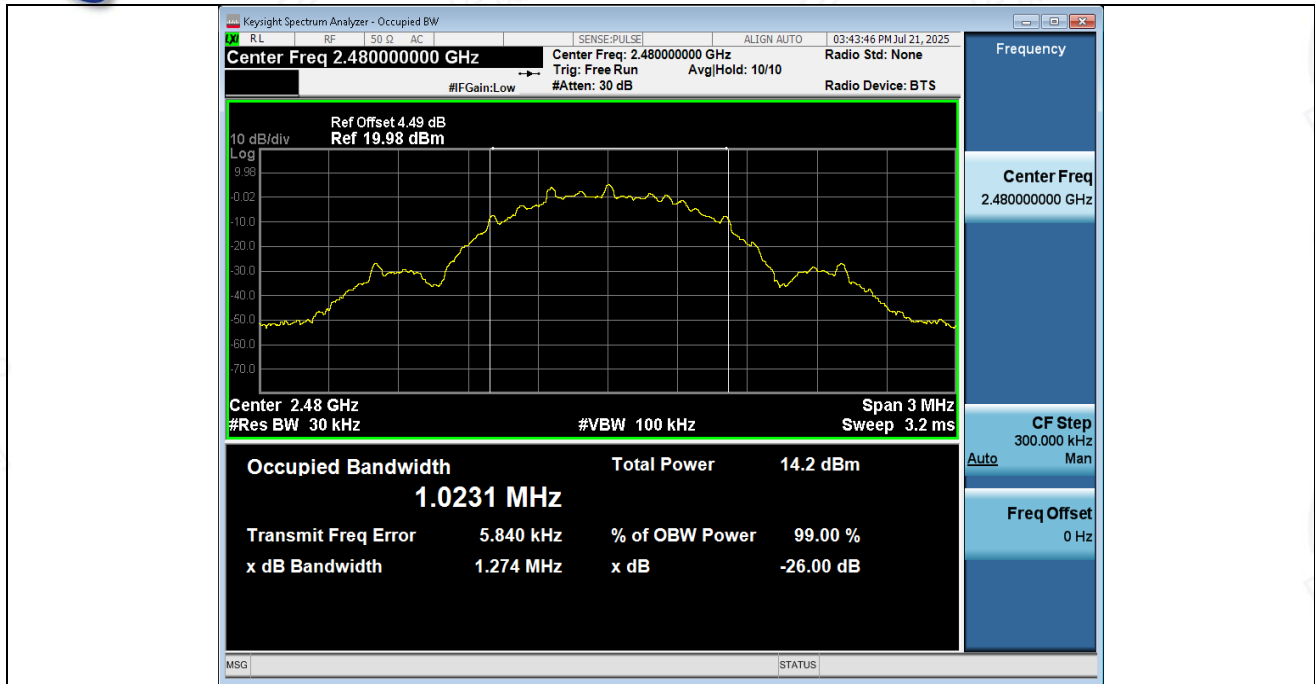


99%_Occupied_Bandwidth_NVNT_ANT1_500 kbps_2440



99%_Occupied_Bandwidth_NVNT_ANT1_500 kbps_2480

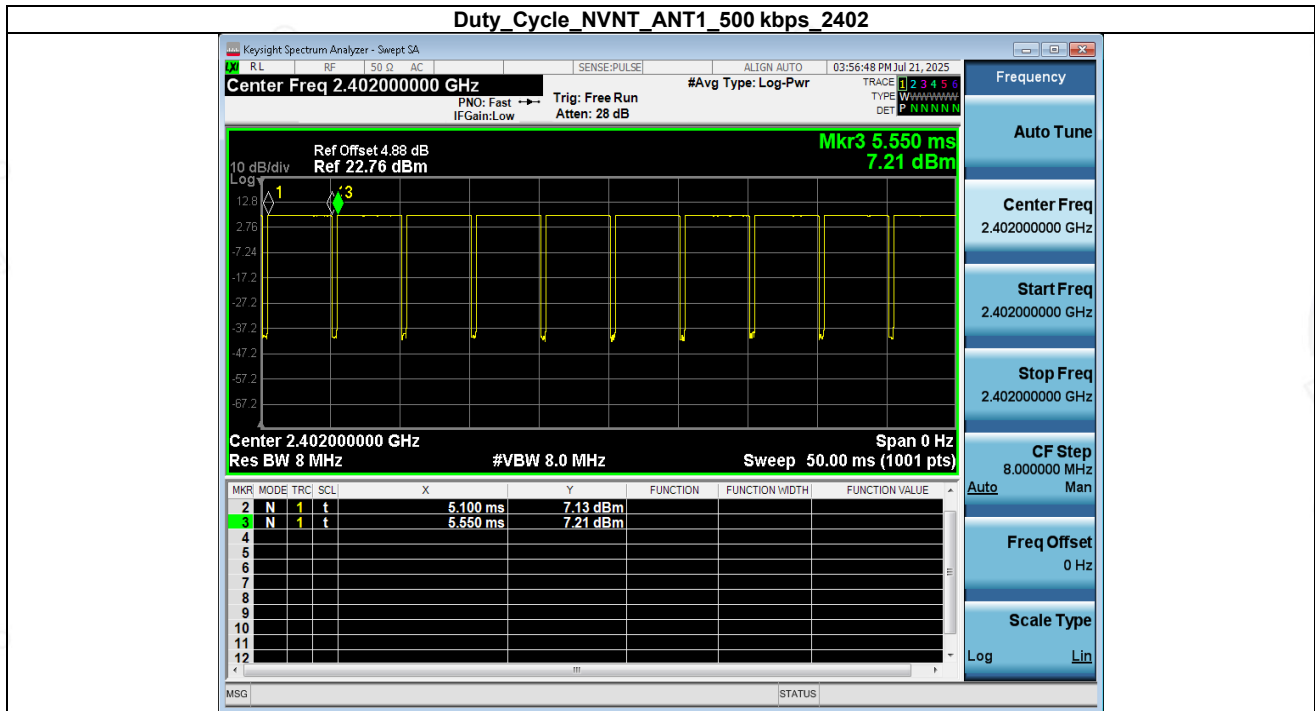




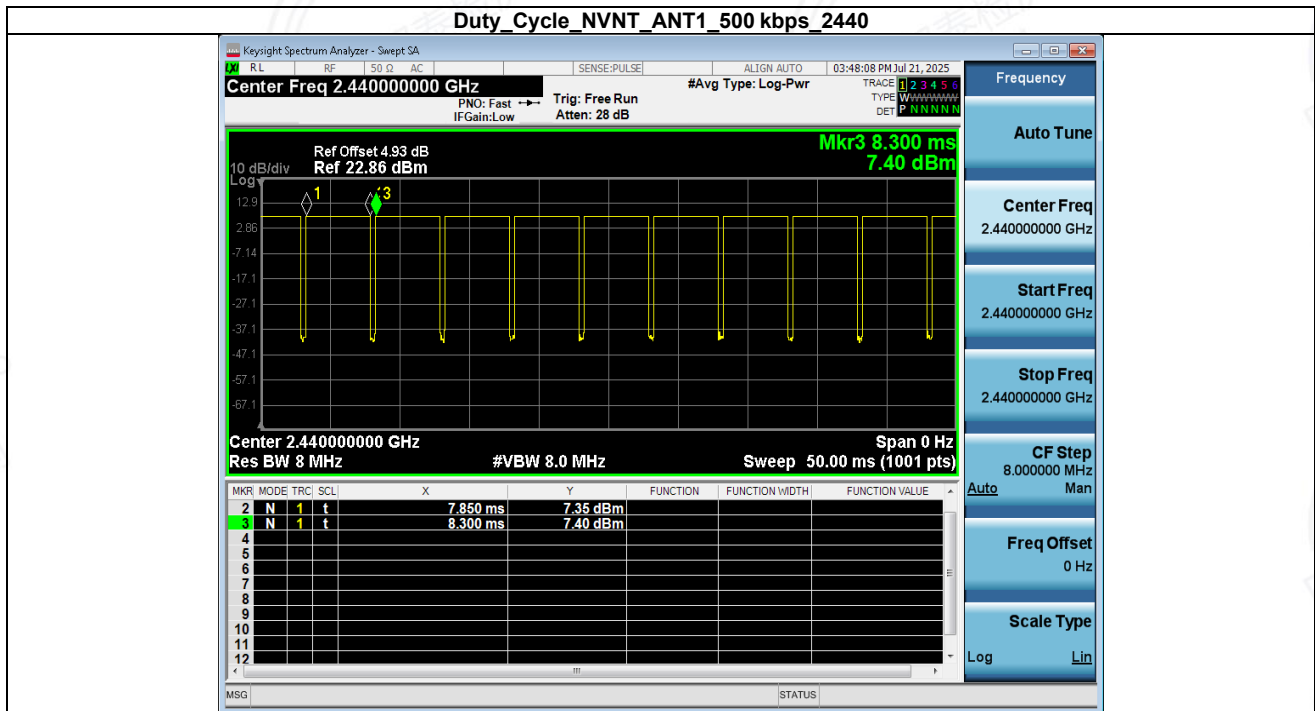
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	500 kbps	2402.00	92.00	0.36
NVNT	ANT1	500 kbps	2440.00	92.00	0.36
NVNT	ANT1	500 kbps	2480.00	92.00	0.36

Duty_Cycle_NVNT_ANT1_500 kbps_2402

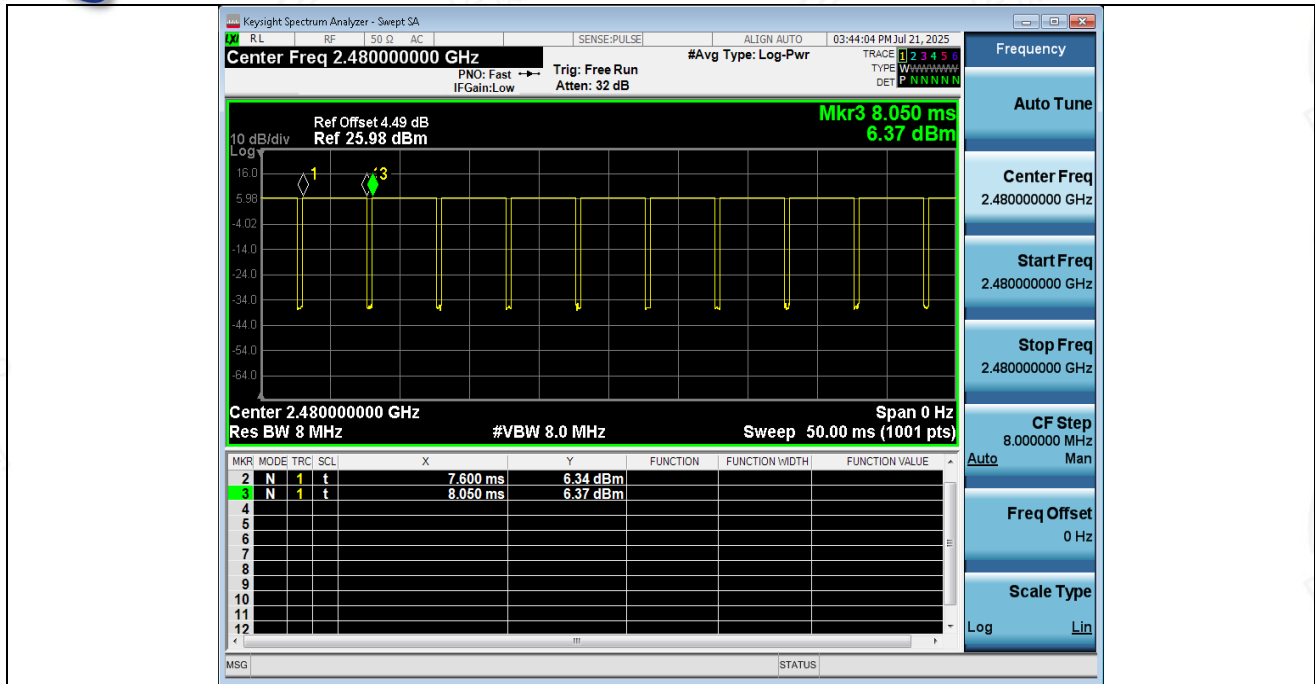


Duty_Cycle_NVNT_ANT1_500 kbps_2440



Duty_Cycle_NVNT_ANT1_500 kbps_2480

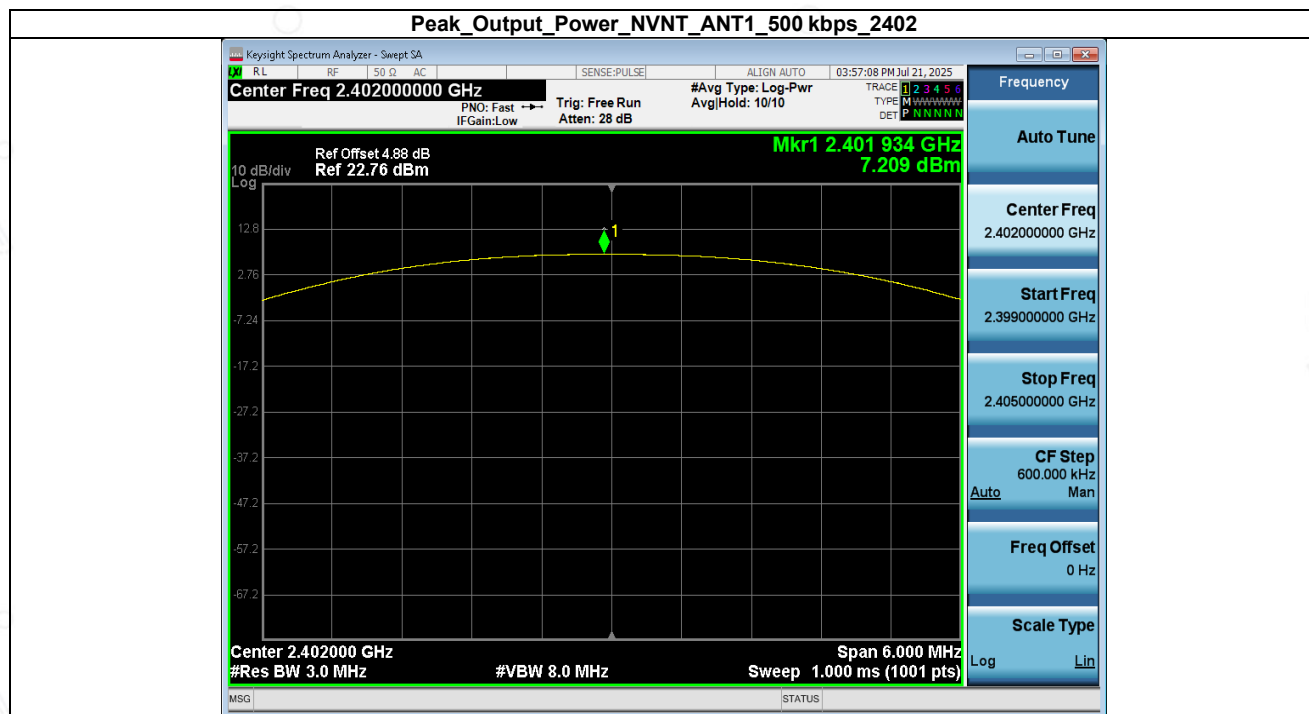




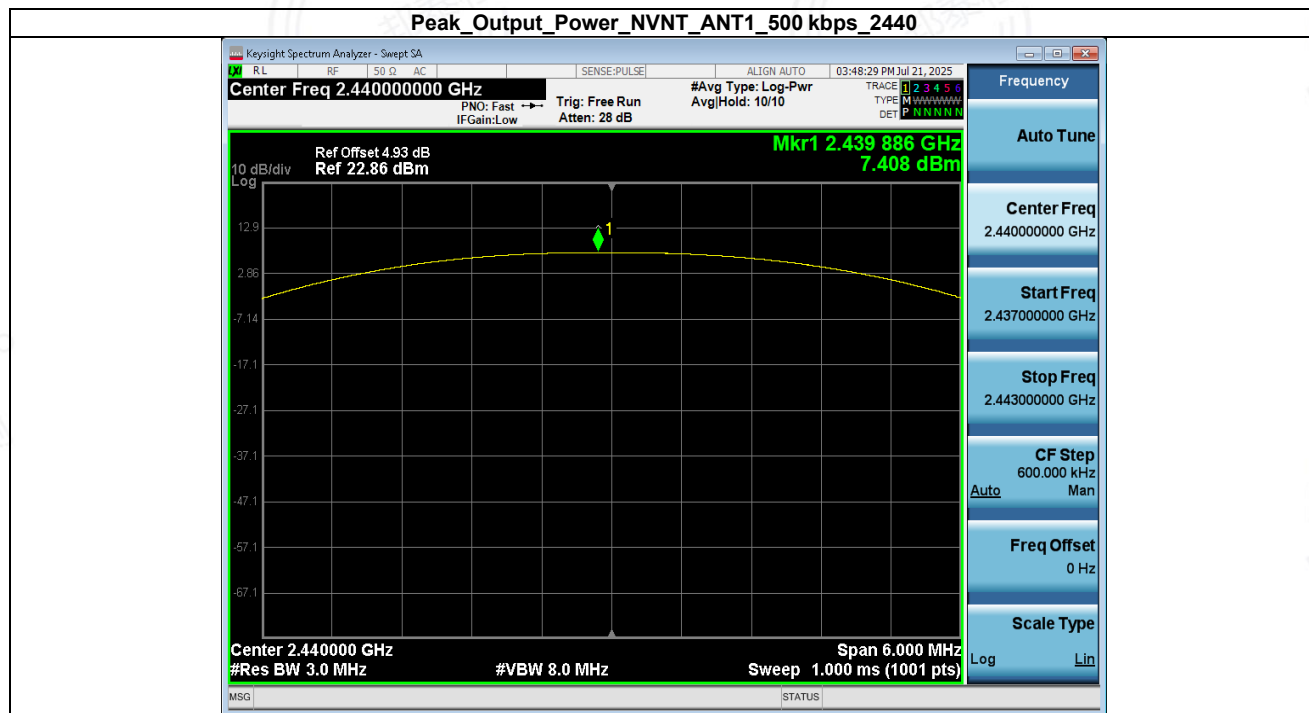
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	500 kbps	2402.00	7.21	5.26	1000	Pass
NVNT	ANT1	500 kbps	2440.00	7.41	5.51	1000	Pass
NVNT	ANT1	500 kbps	2480.00	6.40	4.36	1000	Pass

Peak_Output_Power_NVNT_ANT1_500 kbps_2402



Peak_Output_Power_NVNT_ANT1_500 kbps_2440



Peak_Output_Power_NVNT_ANT1_500 kbps_2480

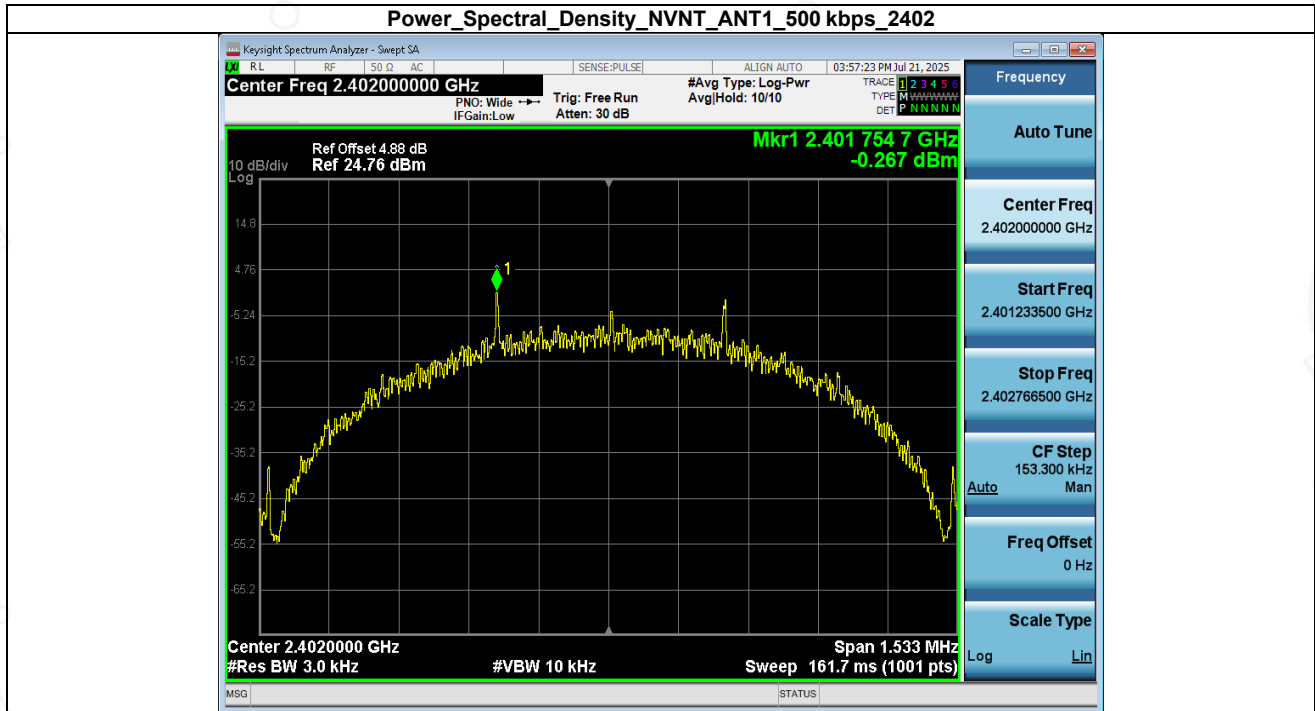




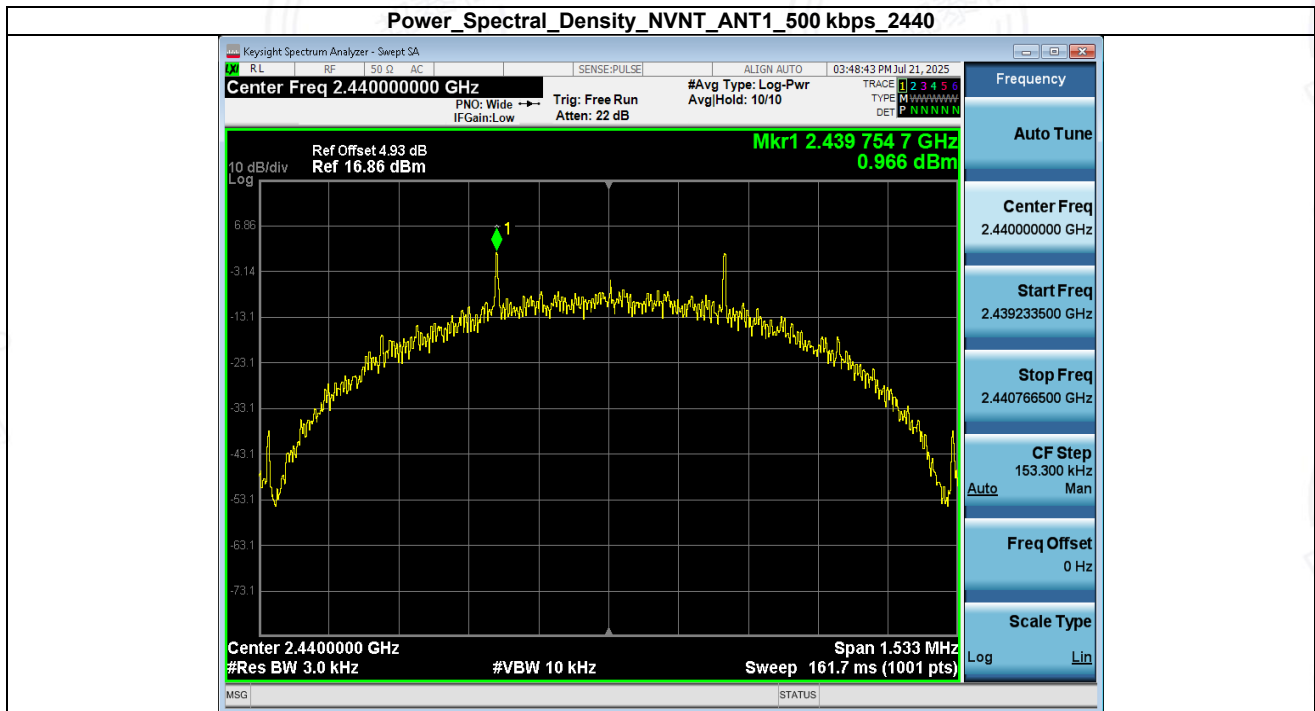
5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	500 kbps	2402.00	-0.27	8	Pass
NVNT	ANT1	500 kbps	2440.00	0.97	8	Pass
NVNT	ANT1	500 kbps	2480.00	-0.04	8	Pass

Power_Spectral_Density_NVNT_ANT1_500 kbps_2402



Power_Spectral_Density_NVNT_ANT1_500 kbps_2440



Power_Spectral_Density_NVNT_ANT1_500 kbps_2480

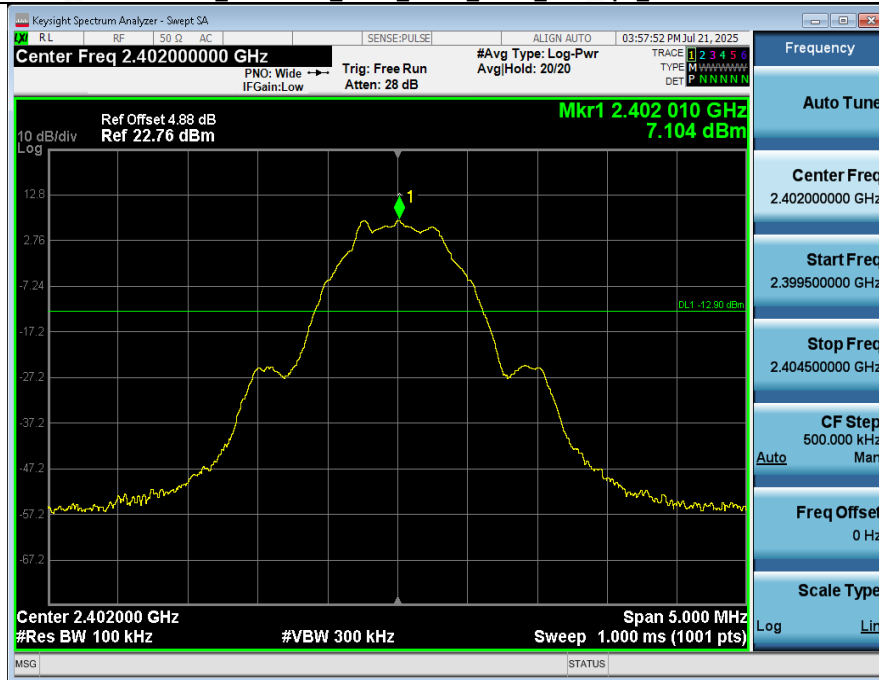




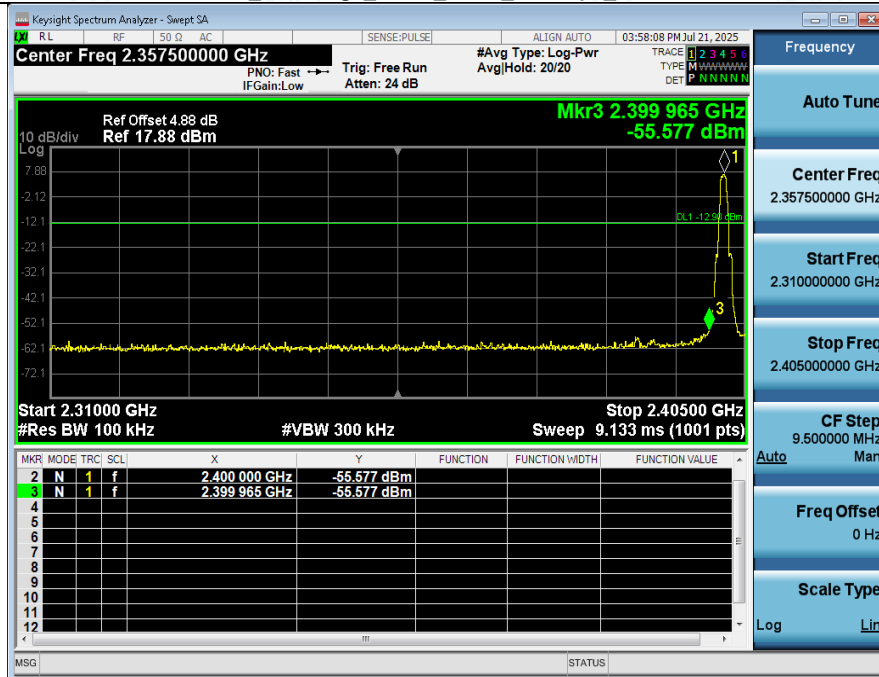
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500 kbps	2402.00	2399.965	7.104	-55.577	-12.896	Pass
NVNT	ANT1	500 kbps	2480.00	2483.725	6.143	-55.245	-13.857	Pass

1_Reference_Level_NVNT_ANT1_500 kbps_2402



2_Bandedge_NVNT_ANT1_500 kbps_2402

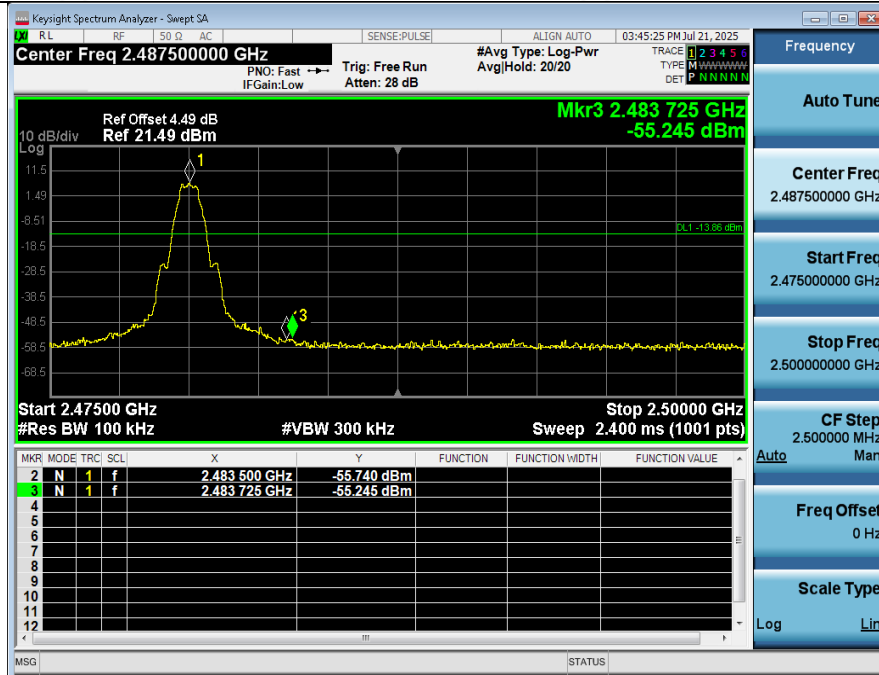


1_Reference_Level_NVNT_ANT1_500 kbps_2480





2_Bandedge_NVNT_ANT1_500 kbps_2480



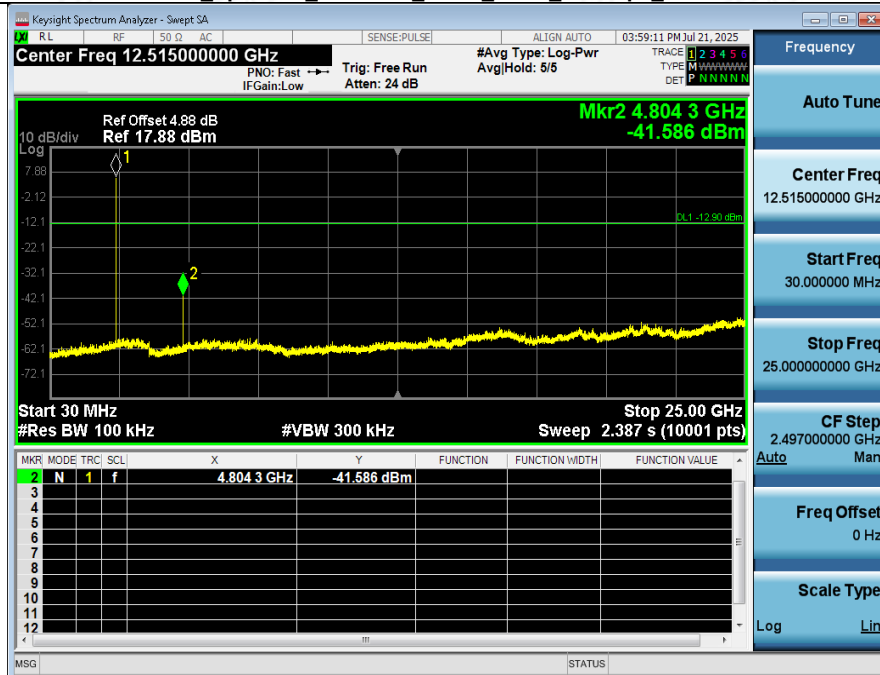
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500 kbps	2402.00	7.104	-41.586	-12.896	Pass
NVNT	ANT1	500 kbps	2440.00	7.229	-38.986	-12.771	Pass
NVNT	ANT1	500 kbps	2480.00	6.143	-41.833	-13.857	Pass

1_Reference_Level_NVNT_ANT1_500 kbps_2402

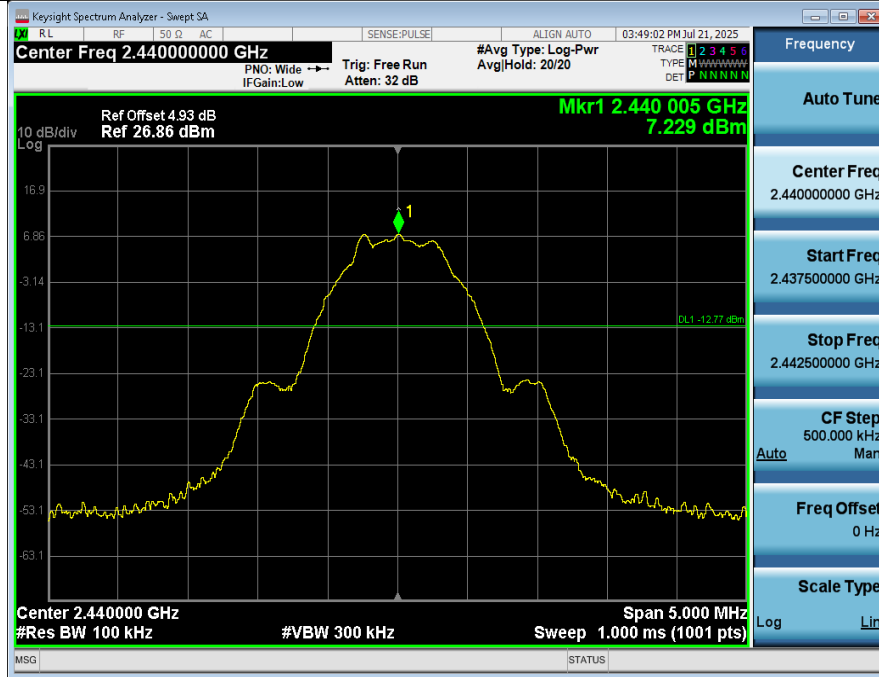


2_Spurious_Emission_NVNT_ANT1_500 kbps_2402

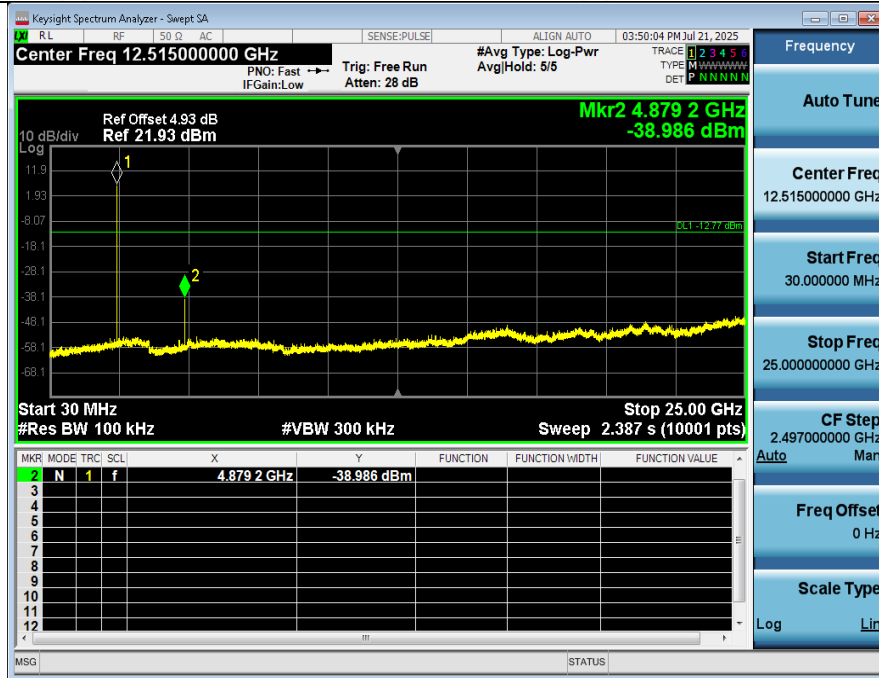


1_Reference_Level_NVNT_ANT1_500 kbps_2440





2_Spurious_Emission_NVNT_ANT1_500 kbps_2440



1_Reference_Level_NVNT_ANT1_500 kbps_2480





2_Spurious_Emission_NVNT_ANT1_500 kbps_2480

