

Appendix

Test Data

for BTEK250324124A01E01

Start date	2025/4/19	Finish date	2025/4/19
Temperature	24.1℃	Humidity	67%
RF specifications	BLE	Test Engineer	Zora



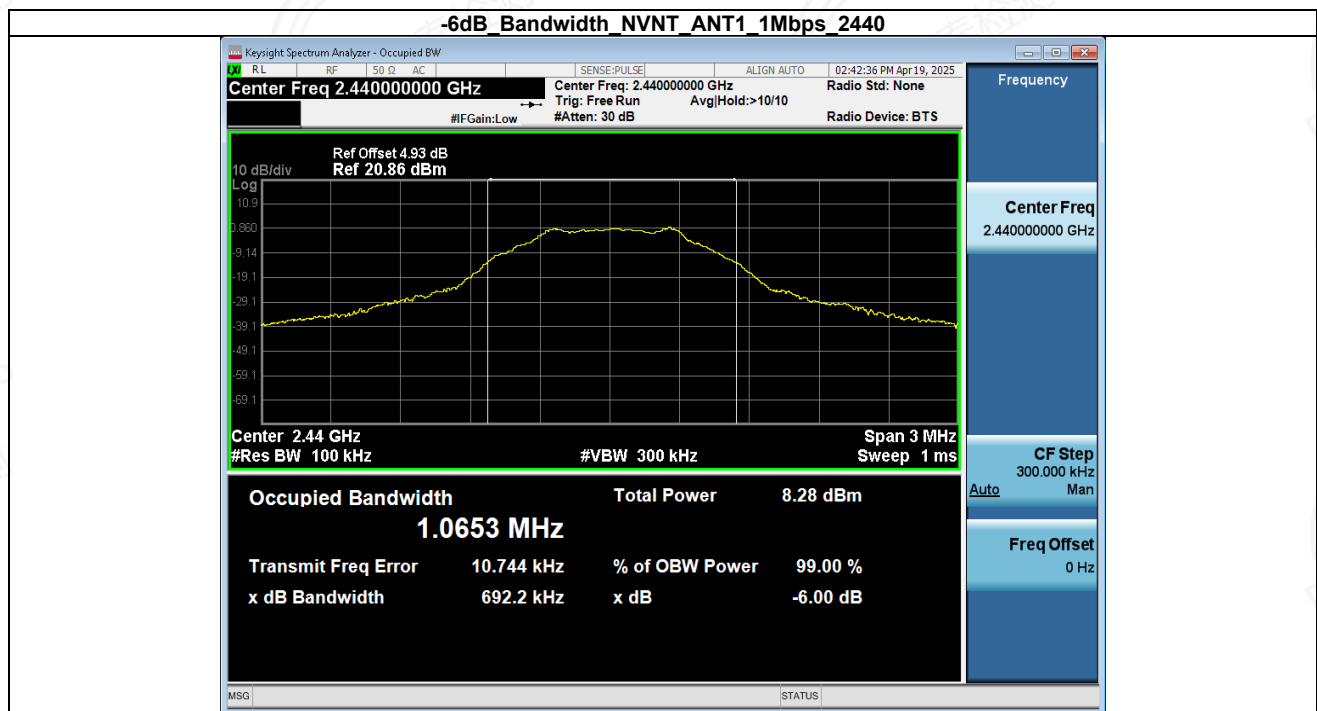
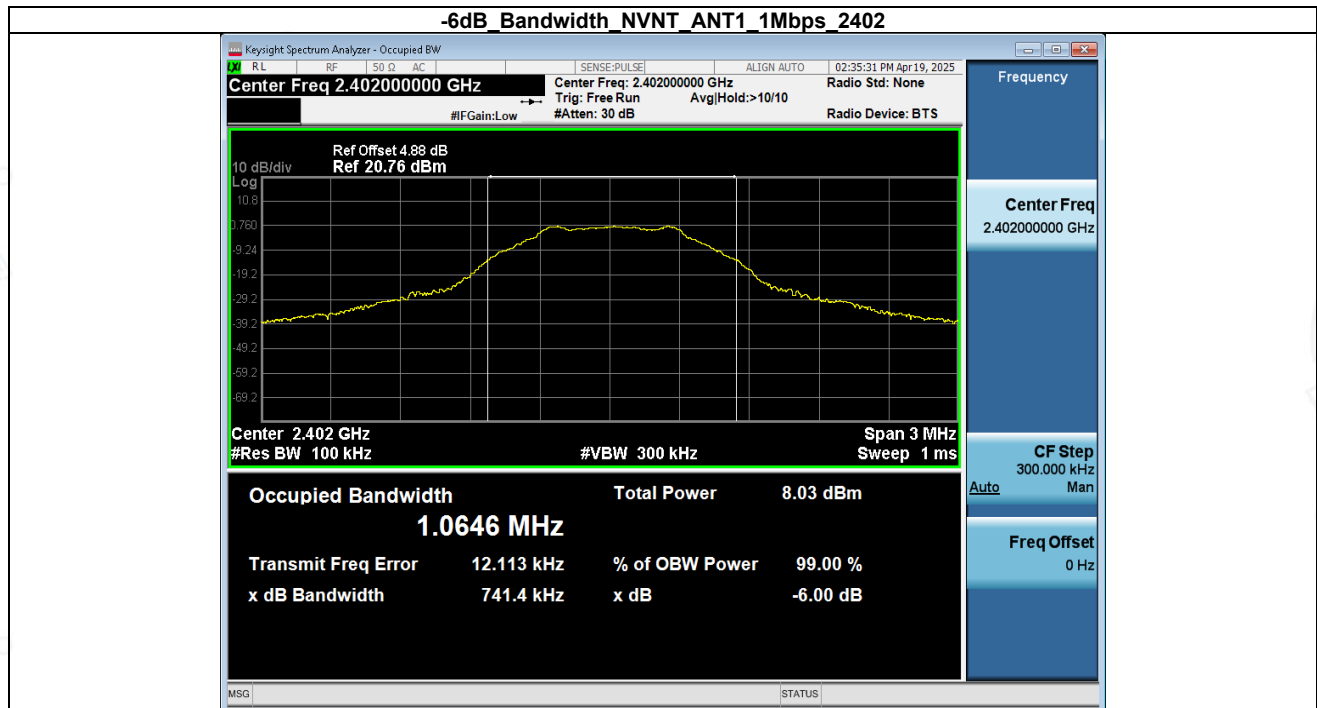
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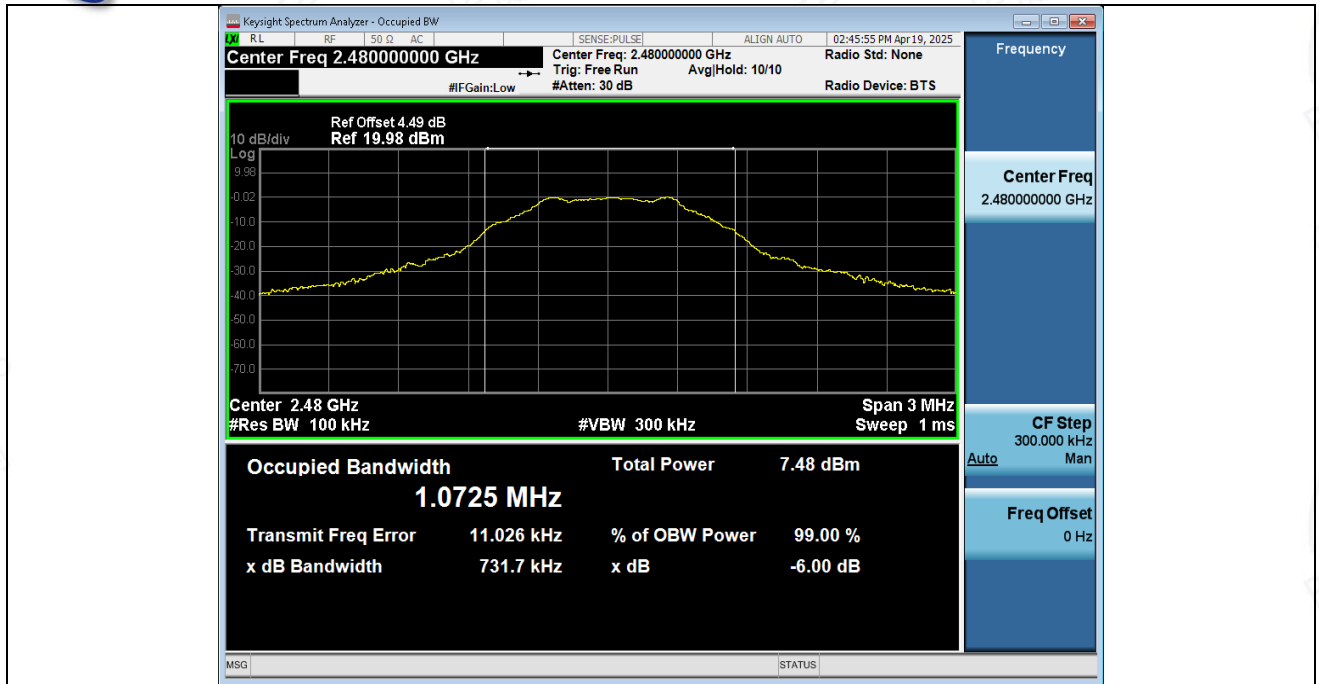
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1. -6dB Bandwidth

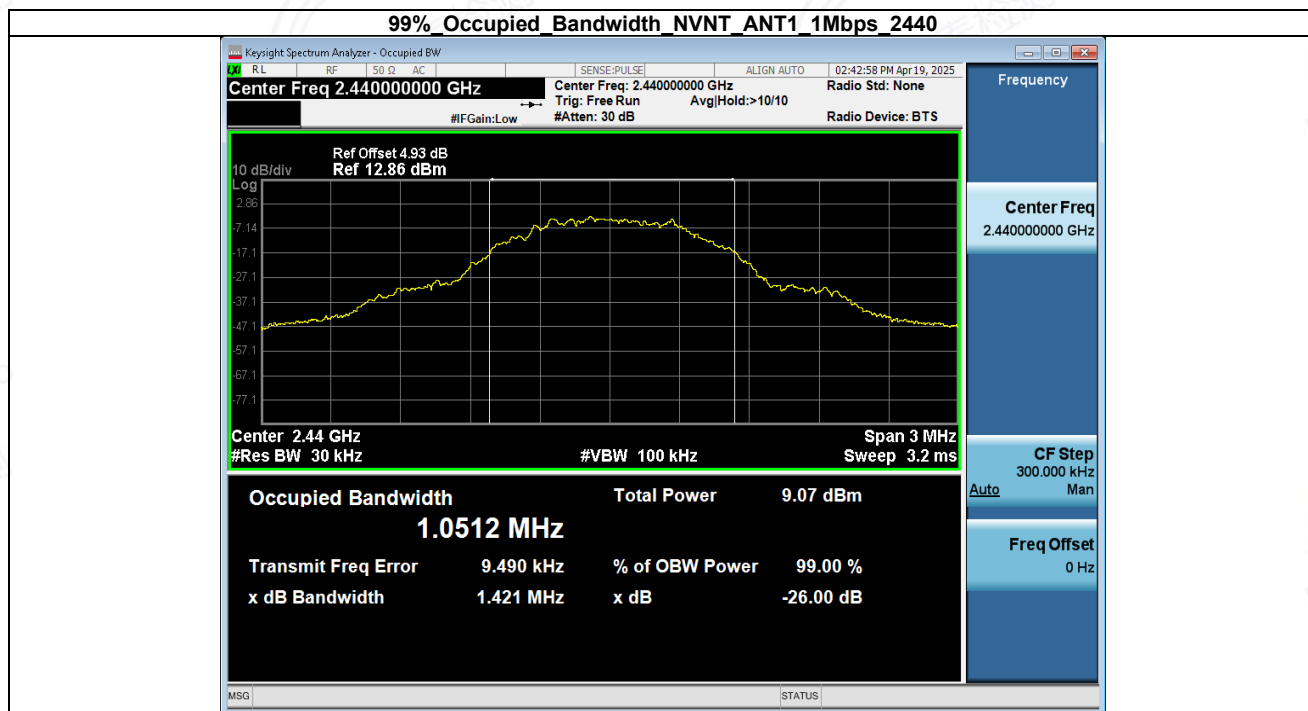
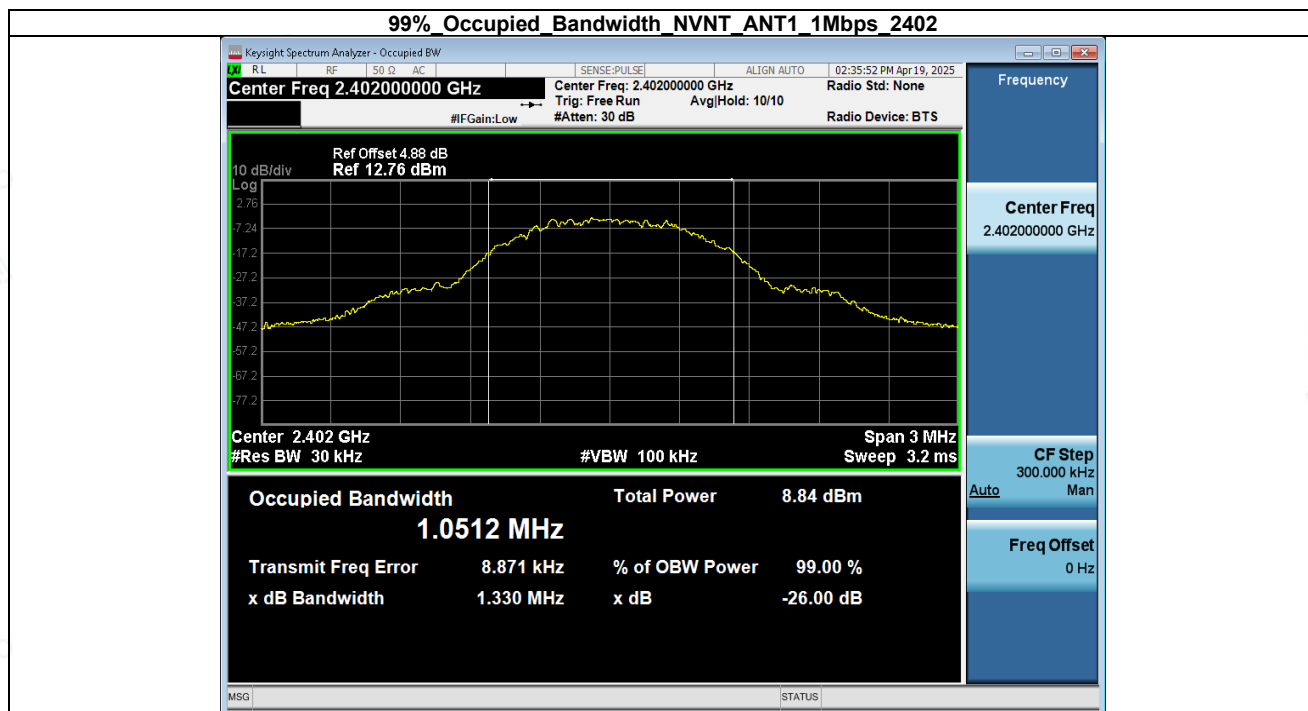
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	741.43	500	Pass
NVNT	ANT1	1Mbps	2440.00	692.16	500	Pass
NVNT	ANT1	1Mbps	2480.00	731.70	500	Pass





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	1Mbps	2402.00	1.051
NVNT	ANT1	1Mbps	2440.00	1.051
NVNT	ANT1	1Mbps	2480.00	1.063



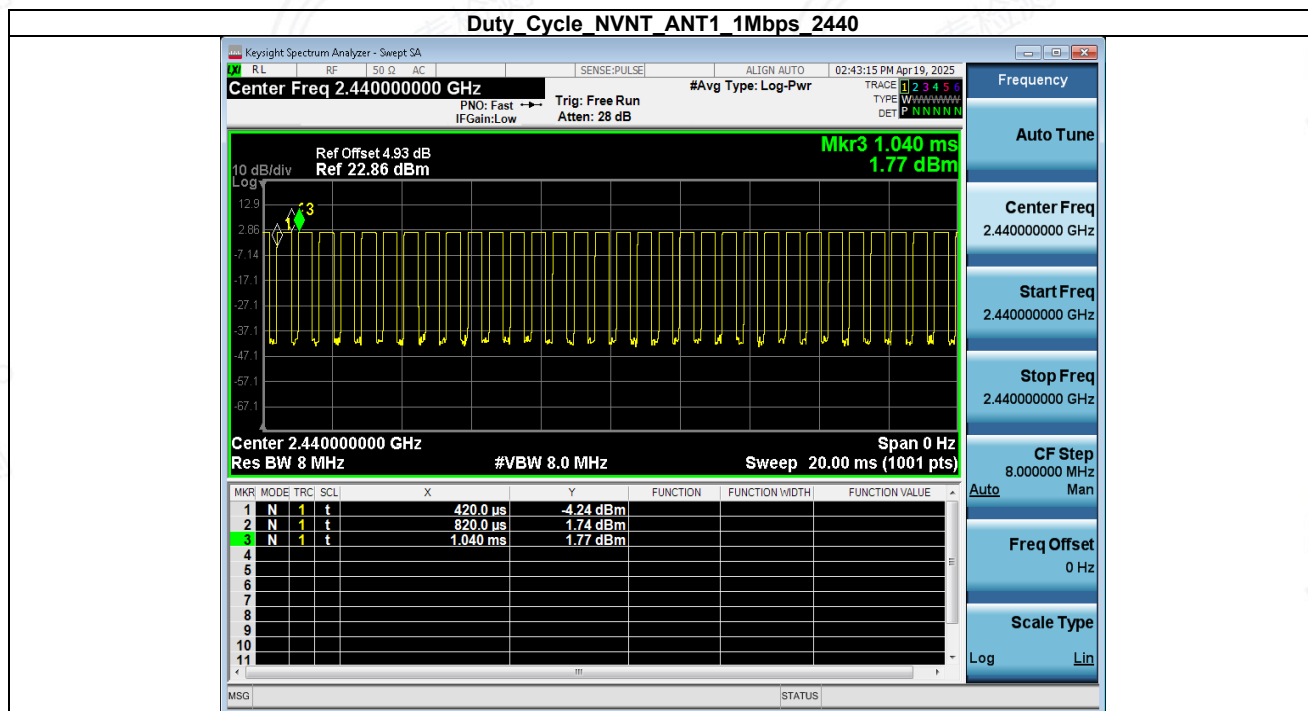
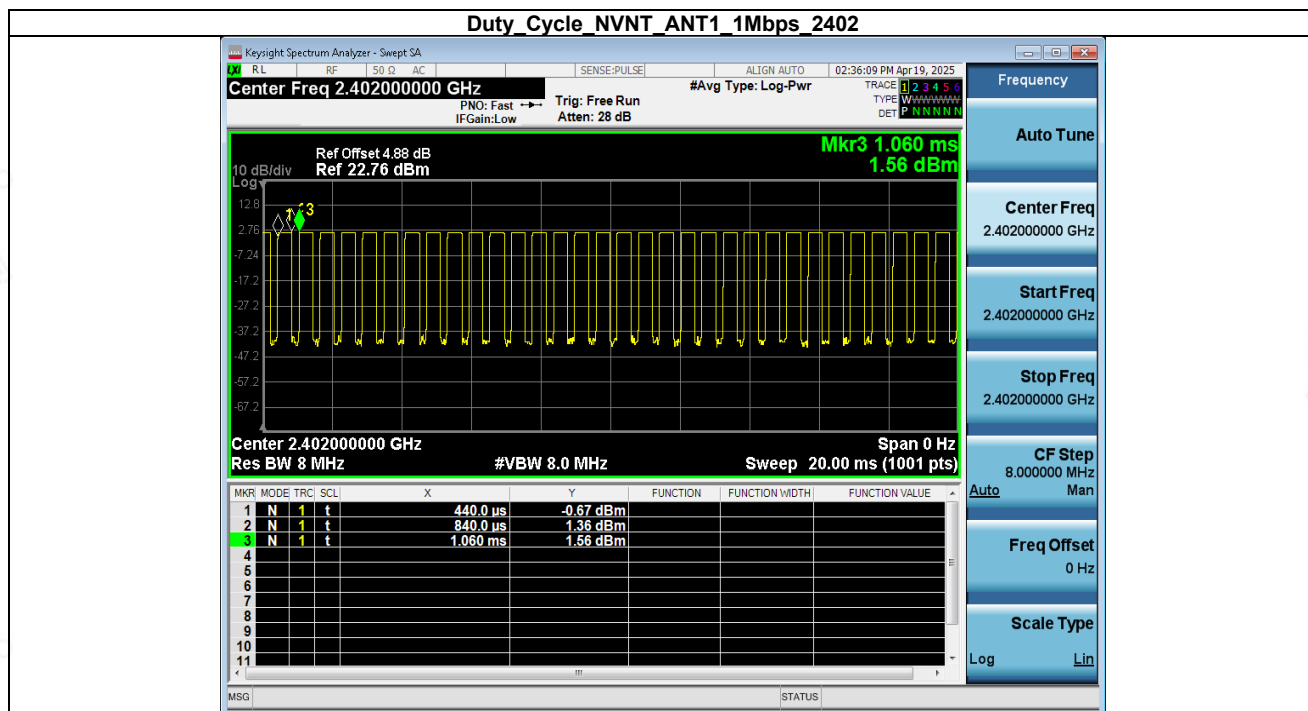
99% Occupied Bandwidth NVNT ANT1 1Mbps 2480





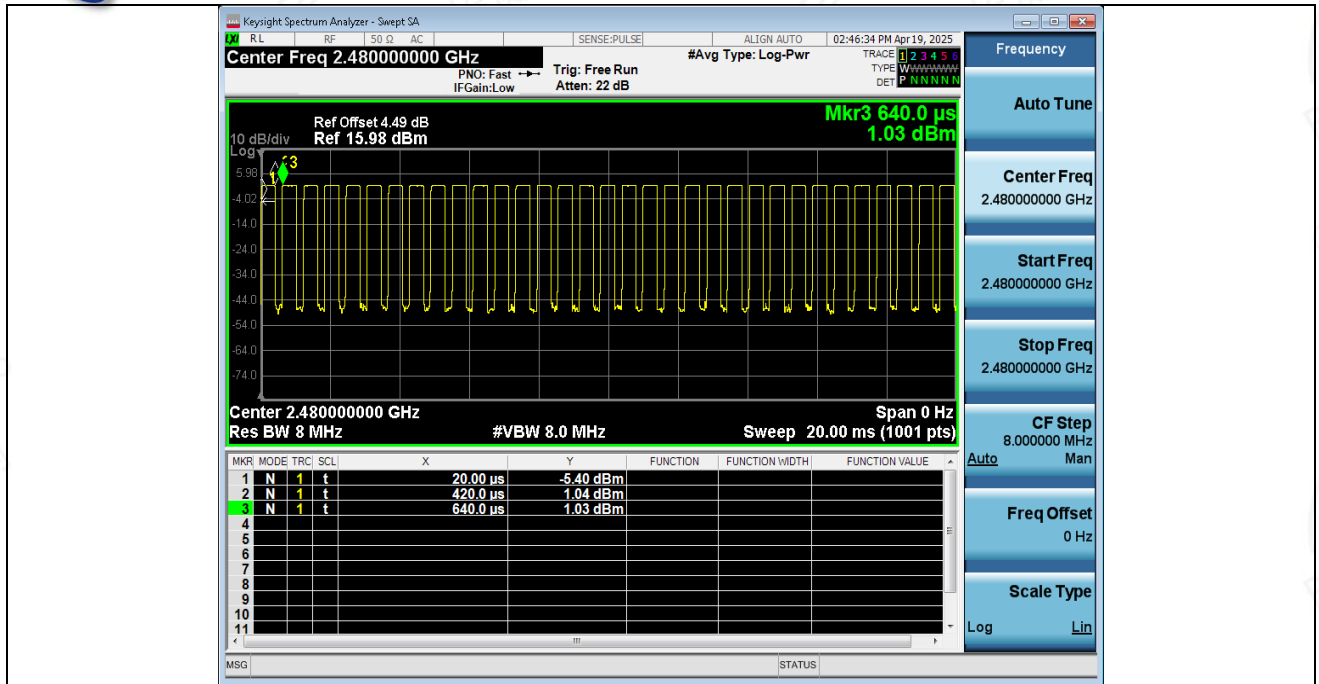
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	67.74	1.69
NVNT	ANT1	1Mbps	2440.00	67.74	1.69
NVNT	ANT1	1Mbps	2480.00	64.52	1.90



Duty Cycle_NVNT_ANT1_1Mbps_2480

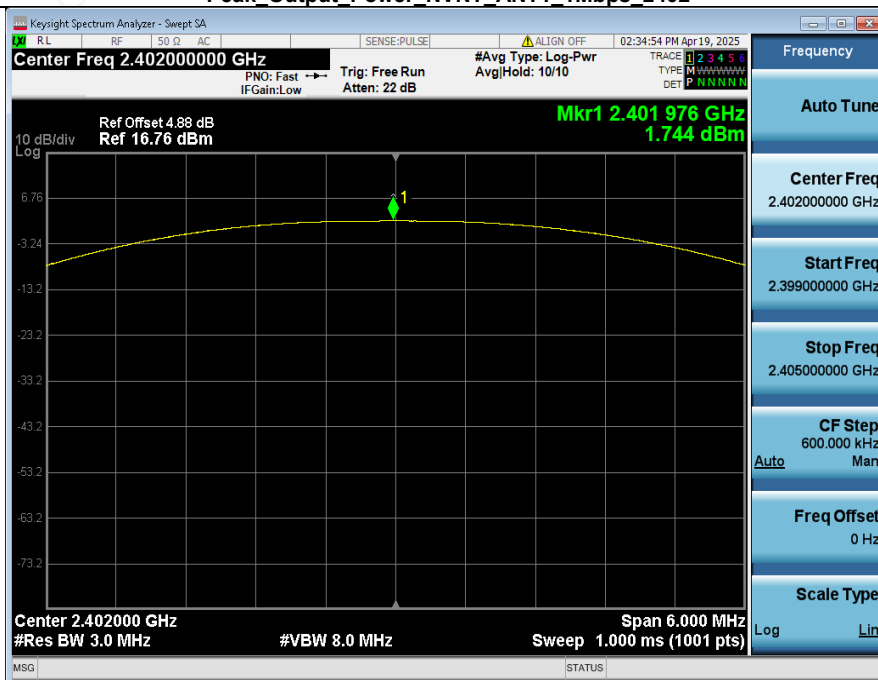




4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	1.74	1.49	1000	Pass
NVNT	ANT1	1Mbps	2440.00	1.88	1.54	1000	Pass
NVNT	ANT1	1Mbps	2480.00	1.18	1.31	1000	Pass

Peak Output Power NVNT ANT1 1Mbps 2402



Peak Output Power NVNT ANT1 1Mbps 2440



Peak Output Power NVNT ANT1 1Mbps 2480





5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-13.41	8	Pass
NVNT	ANT1	1Mbps	2440.00	-11.93	8	Pass
NVNT	ANT1	1Mbps	2480.00	-13.58	8	Pass

Power Spectral Density_NVNT_ANT1_1Mbps_2402

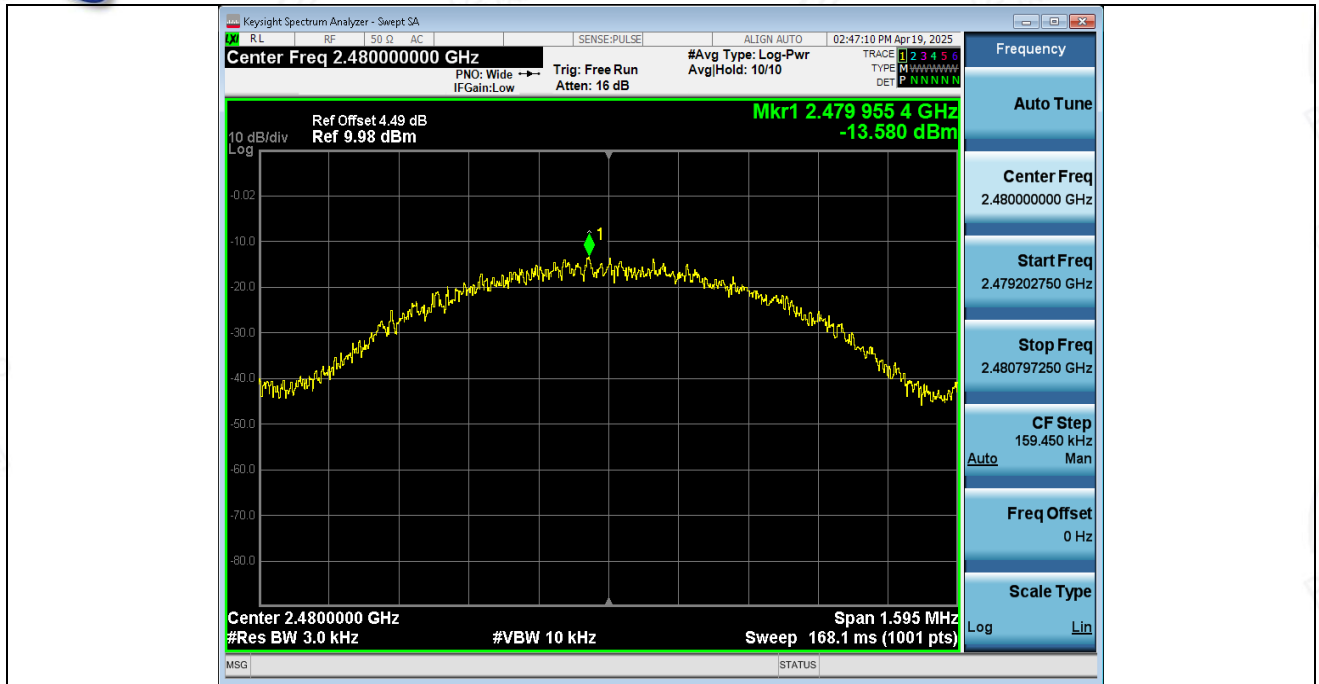


Power Spectral Density_NVNT_ANT1_1Mbps_2440



Power Spectral Density_NVNT_ANT1_1Mbps_2480

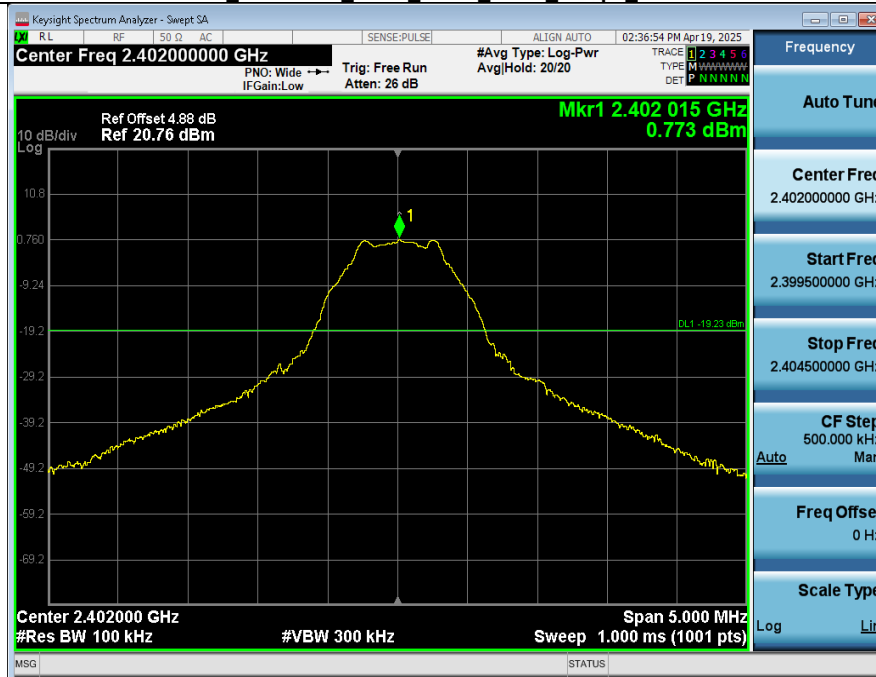




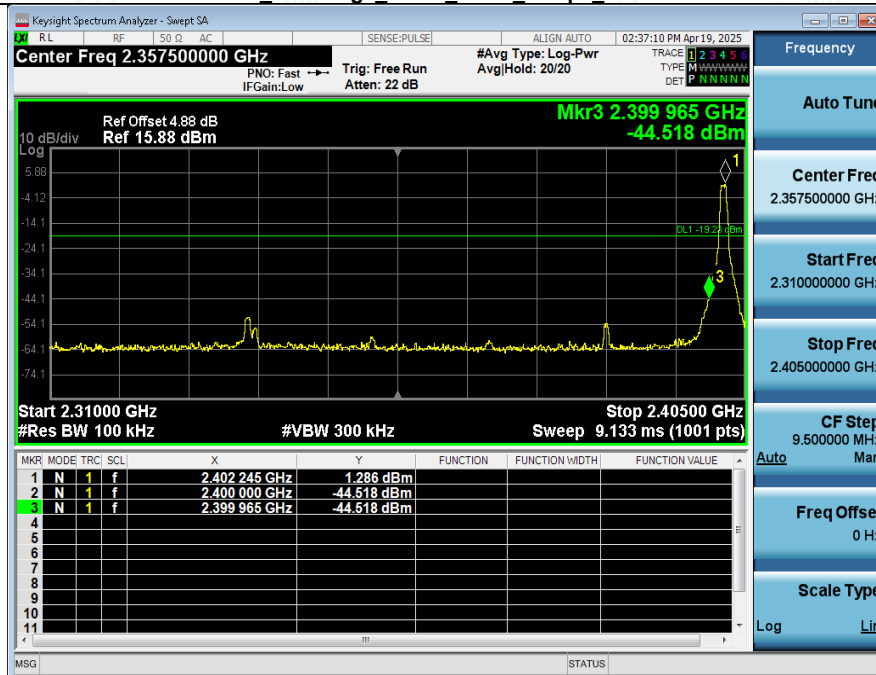
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	0.773	-44.518	-19.227	Pass
NVNT	ANT1	1Mbps	2480.00	2496.200	0.118	-54.305	-19.882	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402

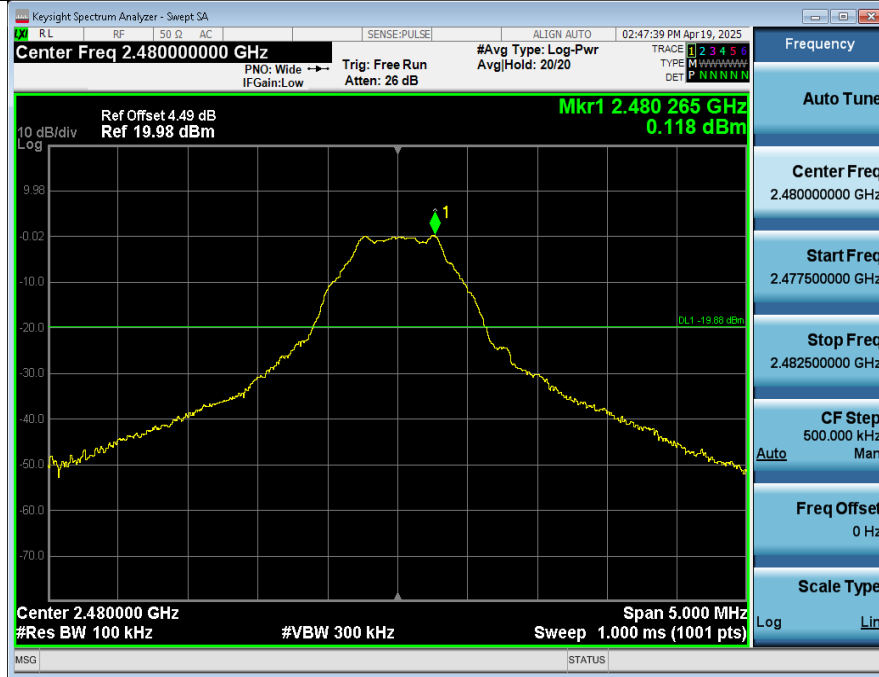


2 Bandedge_NVNT_ANT1_1Mbps_2402

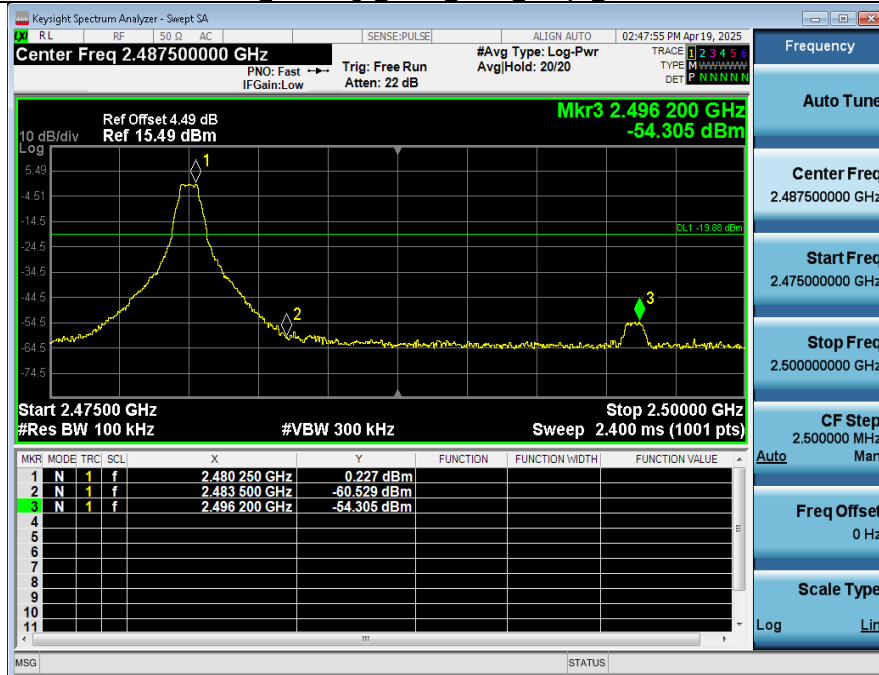


1 Reference_Level_NVNT_ANT1_1Mbps_2480





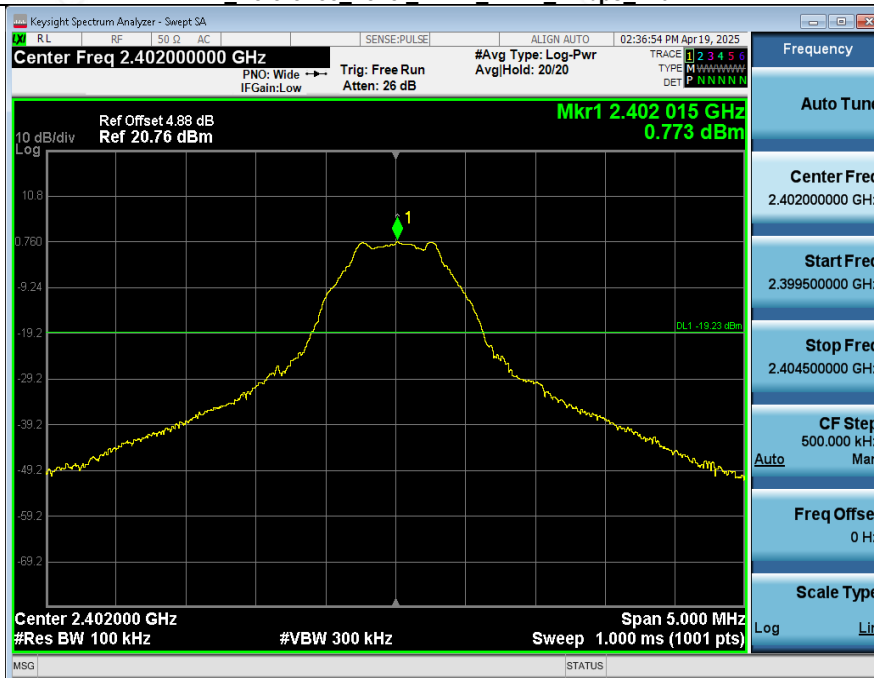
2_Bandedge_NVNT_ANT1_1Mbps_2480



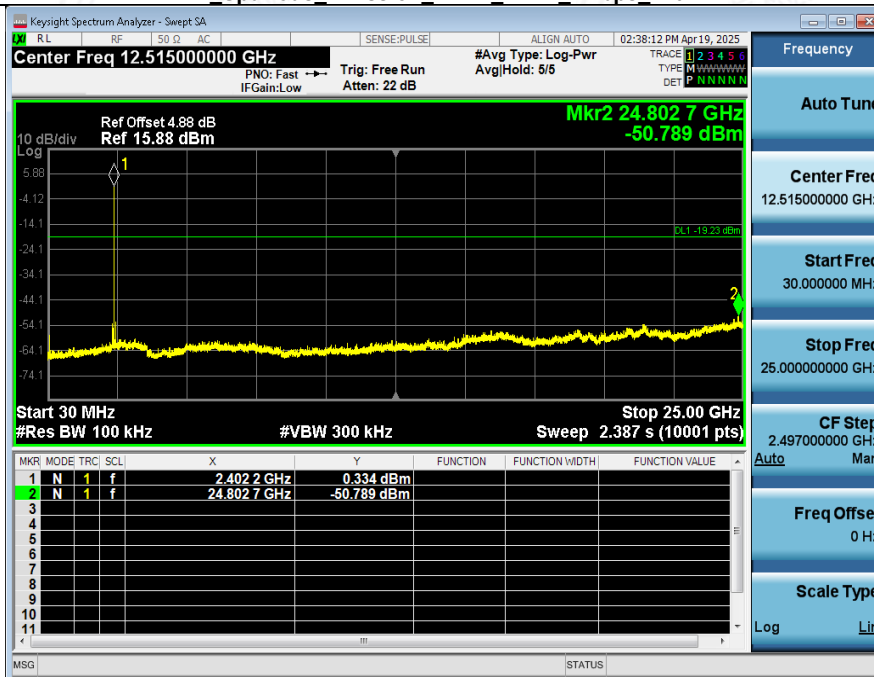
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	0.773	-50.789	-19.227	Pass
NVNT	ANT1	1Mbps	2440.00	0.761	-51.545	-19.239	Pass
NVNT	ANT1	1Mbps	2480.00	0.118	-52.623	-19.882	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Spurious Emission_NVNT_ANT1_1Mbps_2402

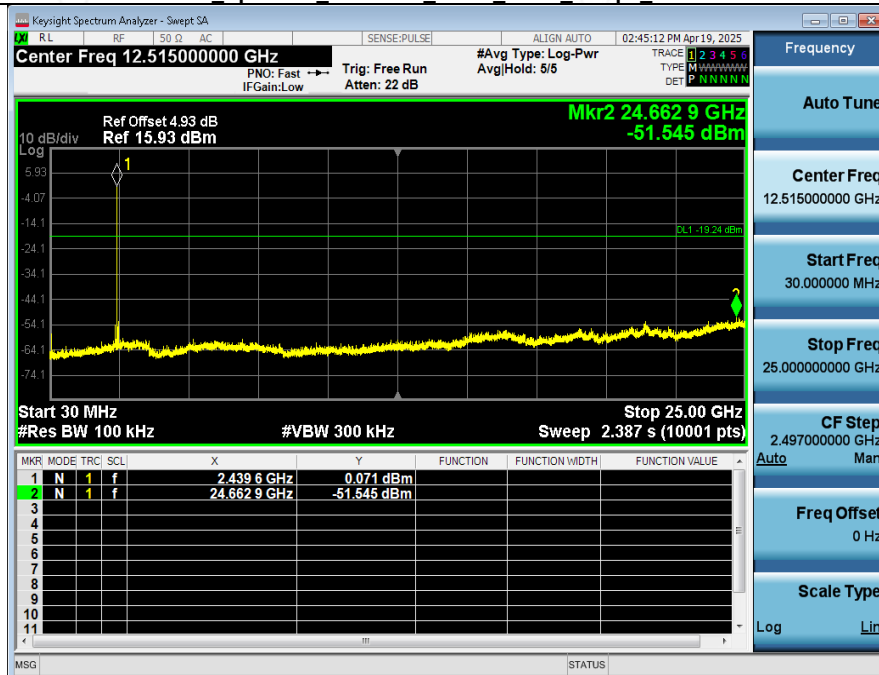


1 Reference_Level_NVNT_ANT1_1Mbps_2440





2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1_Reference_Level_NVNT_ANT1_1Mbps_2480





2 Spurious Emission NVNT_ANT1 1Mbps 2480

