

Appendix

Test Data

for BTEK241218089A01E02

Start date	2024/12/30	Finish date	2024/12/30
Temperature	21.3℃	Humidity	33%
RF specifications	500kbps	Test Engineer	Zora



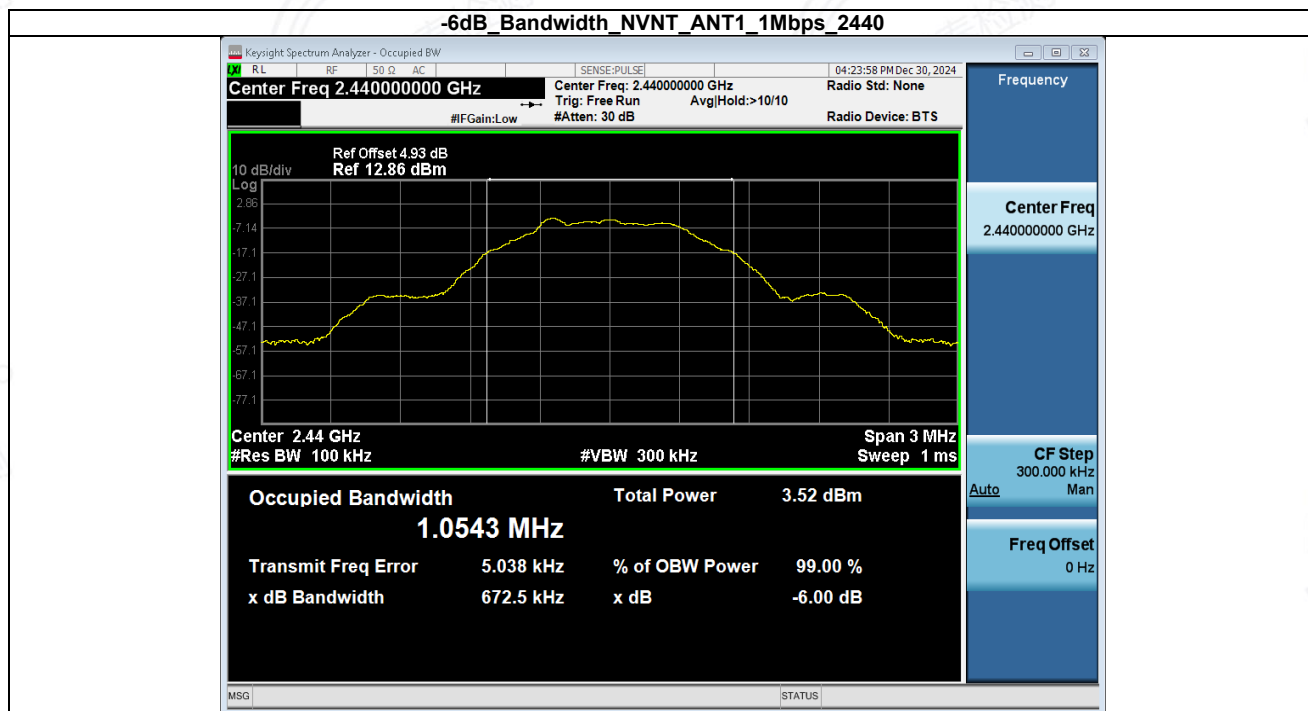
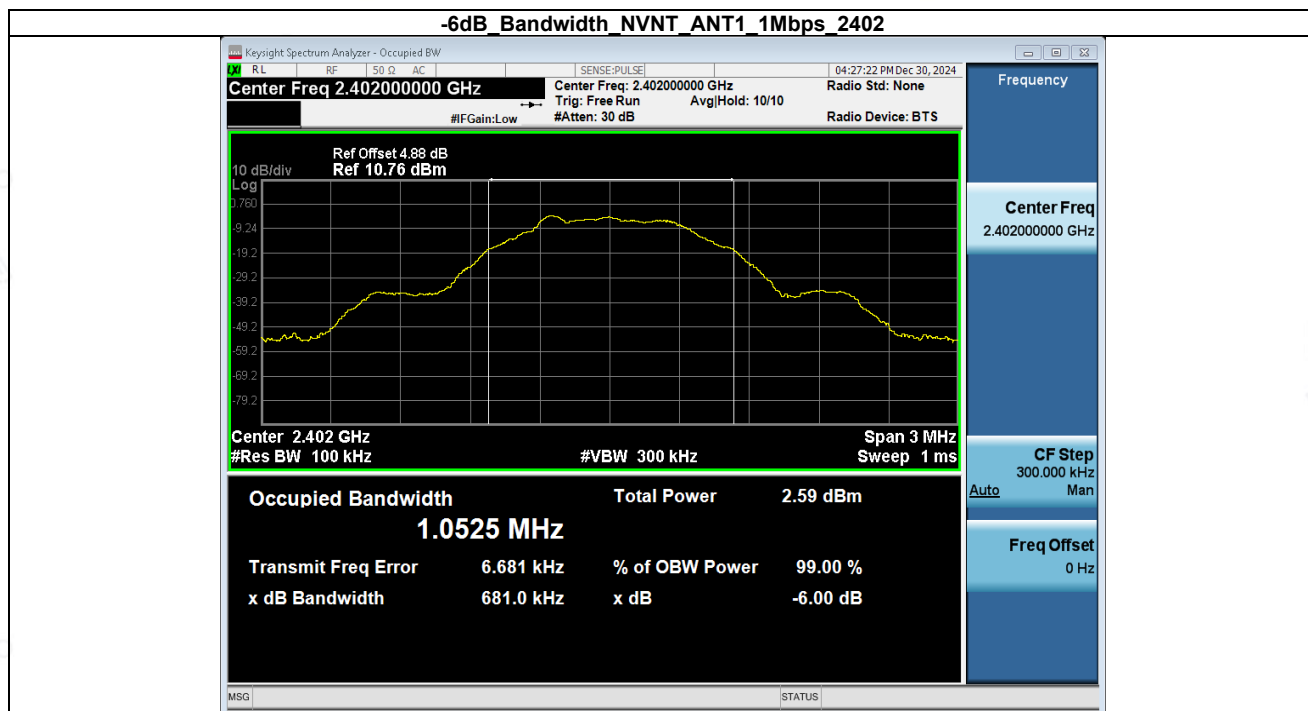
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1. -6dB Bandwidth

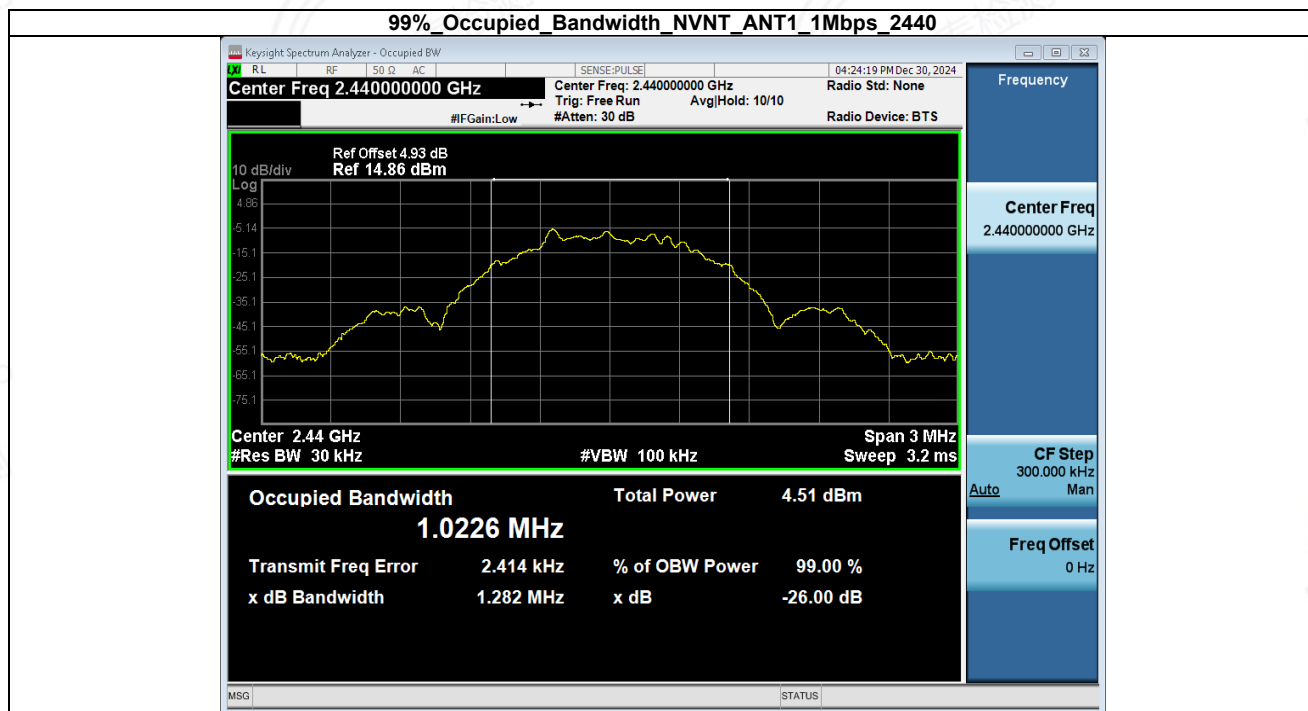
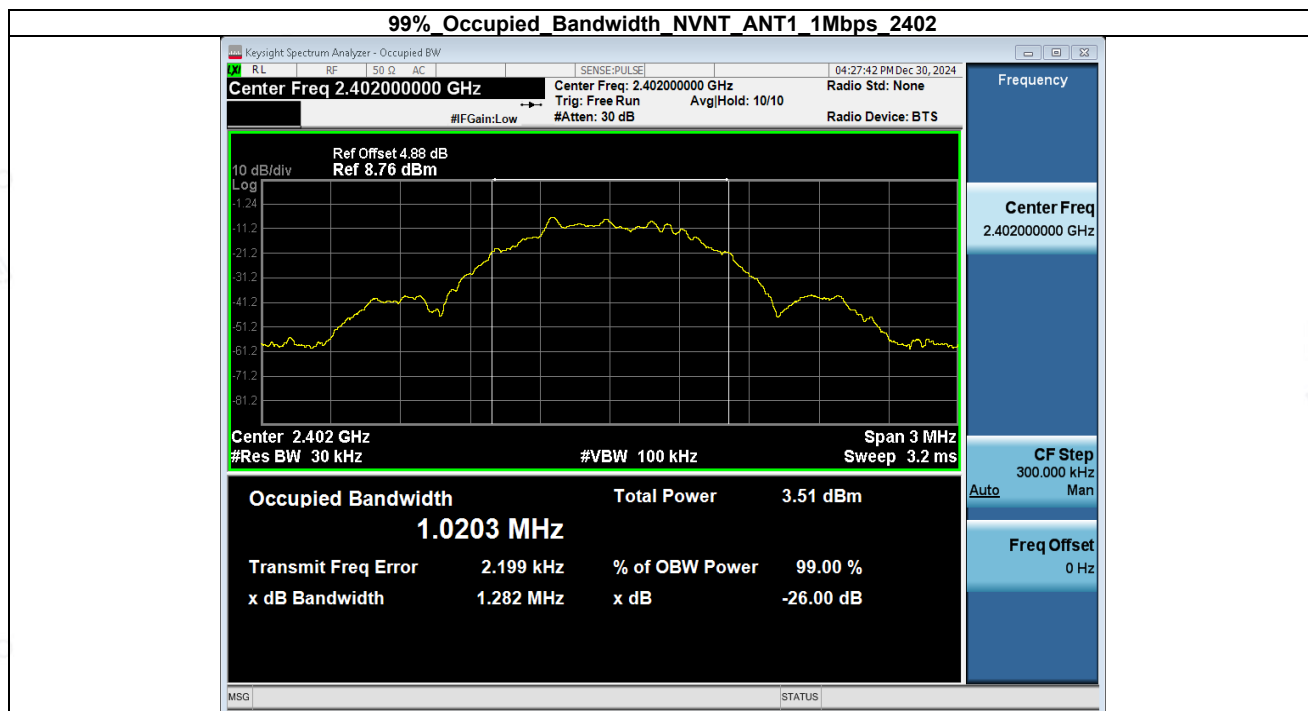
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	680.99	500	Pass
NVNT	ANT1	1Mbps	2440.00	672.47	500	Pass
NVNT	ANT1	1Mbps	2480.00	676.22	500	Pass





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	1Mbps	2402.00	1.020
NVNT	ANT1	1Mbps	2440.00	1.023
NVNT	ANT1	1Mbps	2480.00	1.023



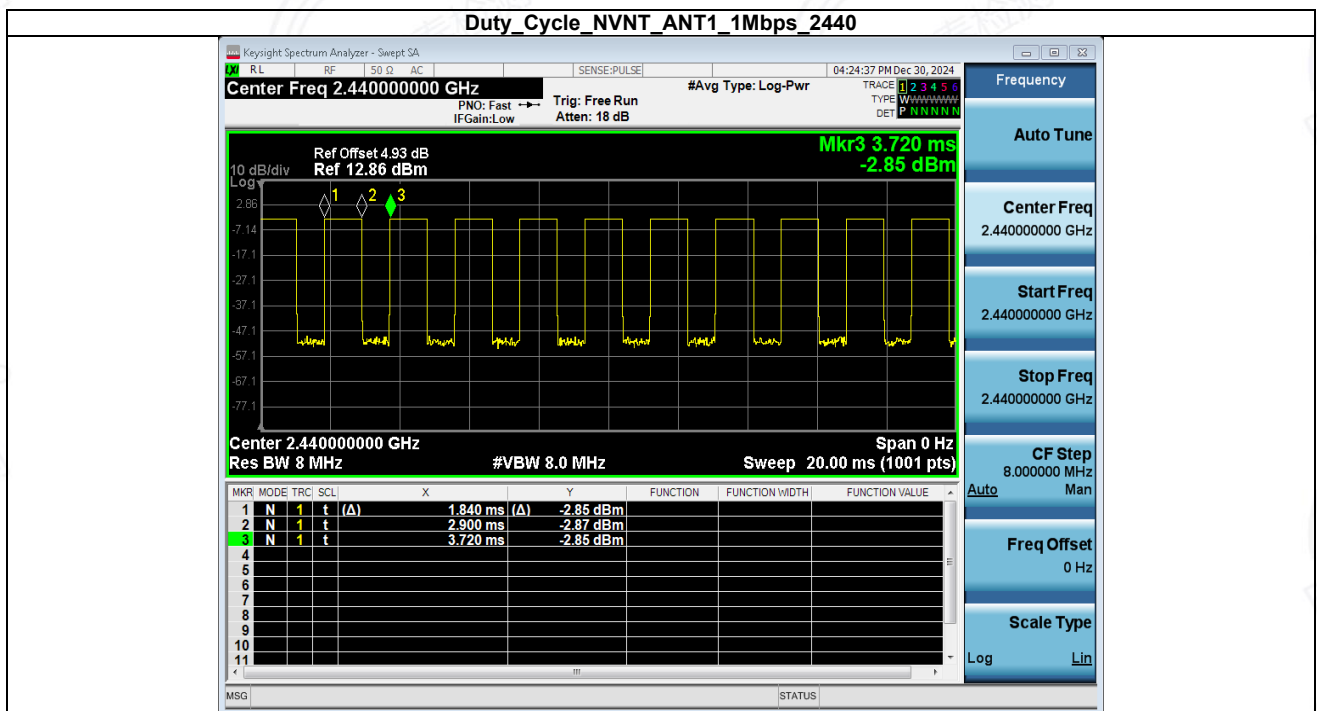
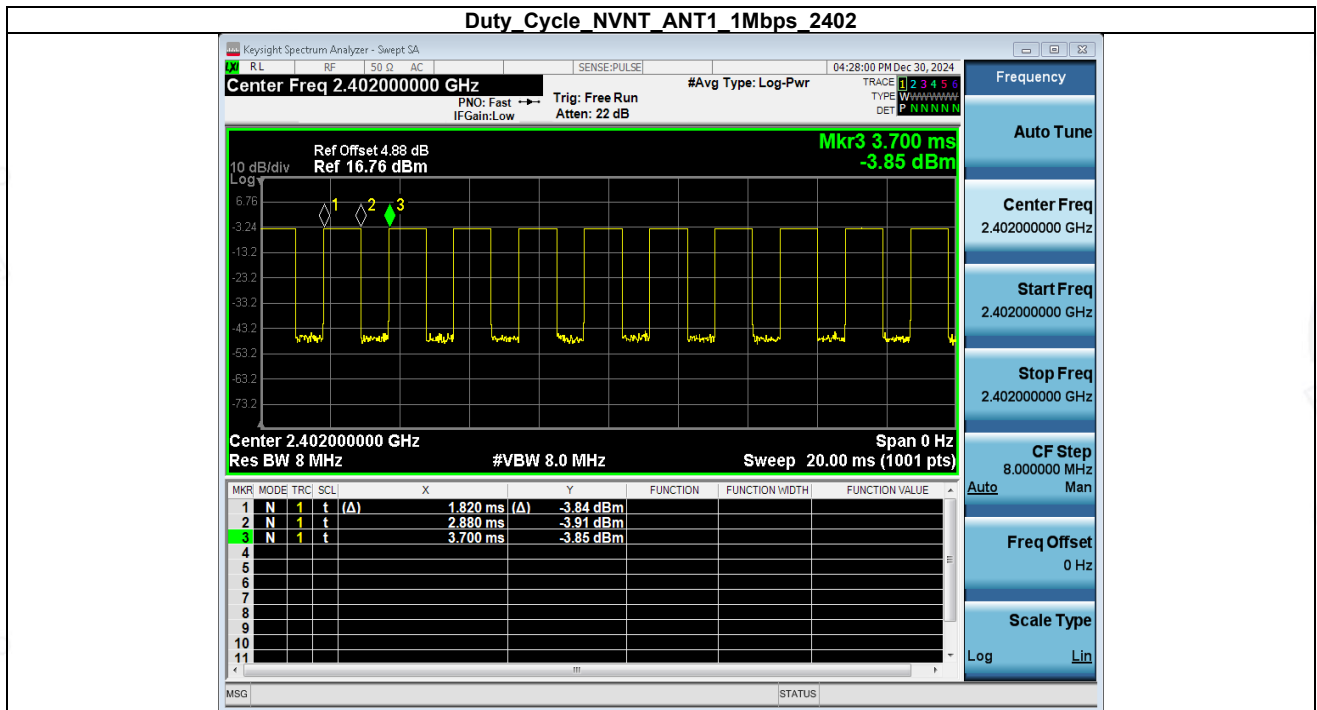
99% Occupied Bandwidth_NVNT_ANT1_1Mbps_2480





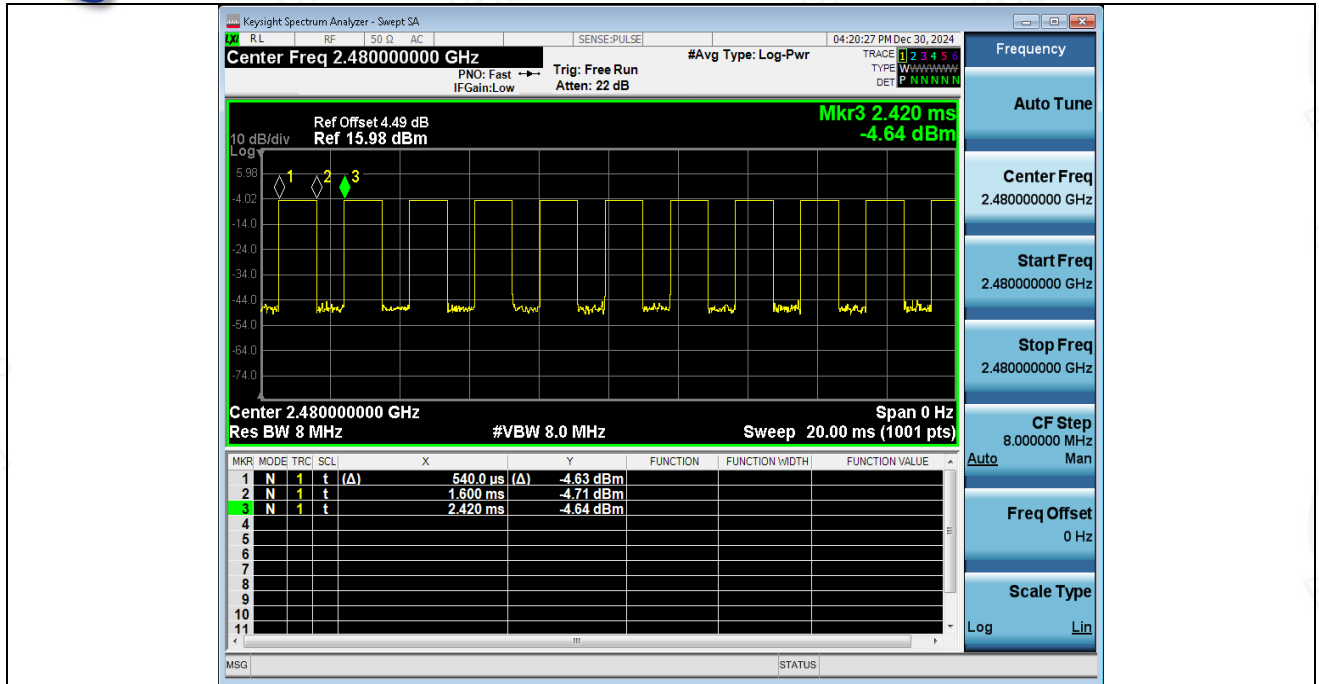
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	57.45	2.41
NVNT	ANT1	1Mbps	2440.00	57.45	2.41
NVNT	ANT1	1Mbps	2480.00	56.38	2.49



Duty Cycle_NVNT_ANT1_1Mbps_2480

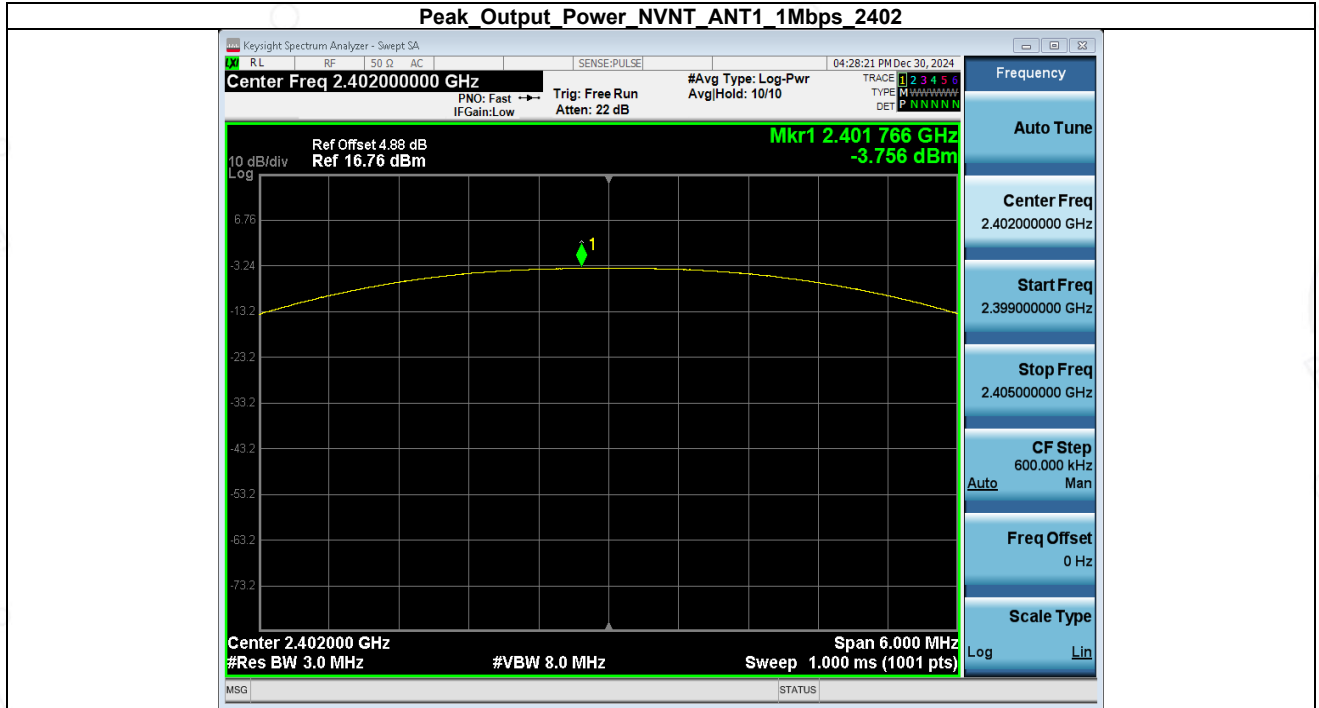




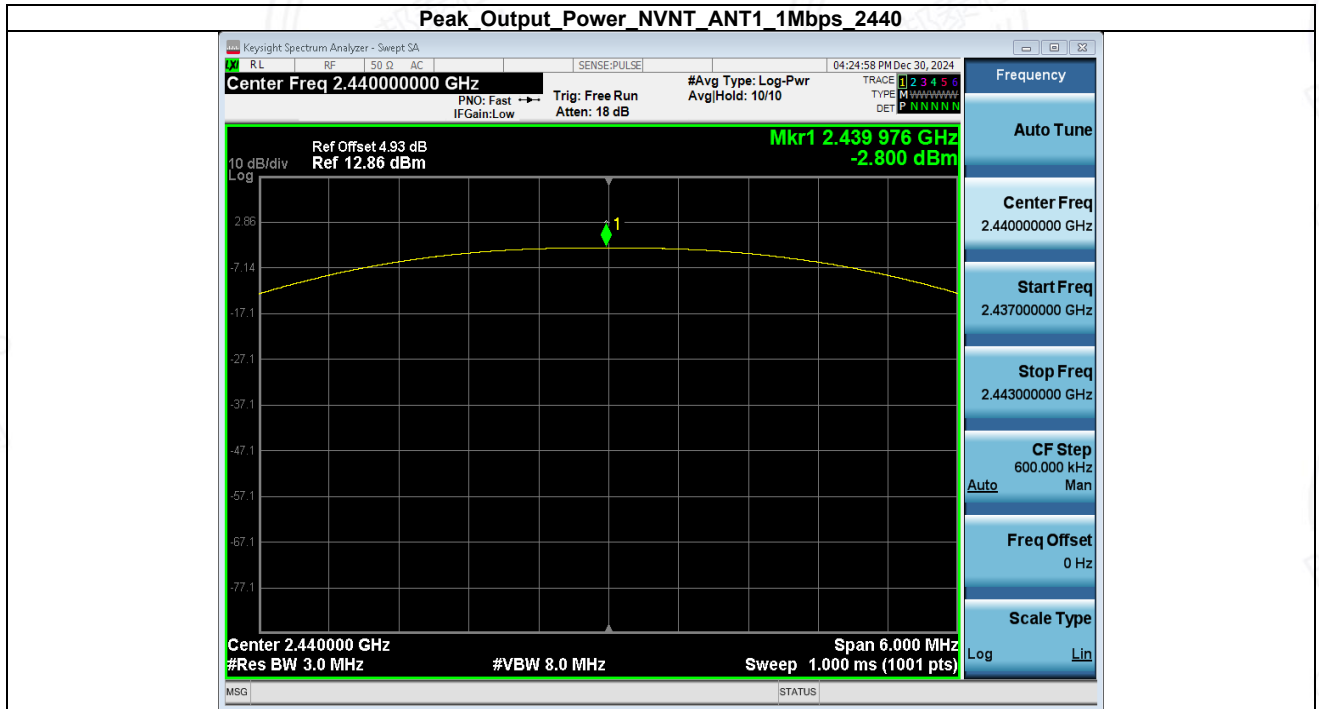
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	-3.76	0.42	1000	Pass
NVNT	ANT1	1Mbps	2440.00	-2.80	0.52	1000	Pass
NVNT	ANT1	1Mbps	2480.00	-4.31	0.37	1000	Pass

Peak Output Power_NVNT_ANT1_1Mbps_2402



Peak Output Power_NVNT_ANT1_1Mbps_2440



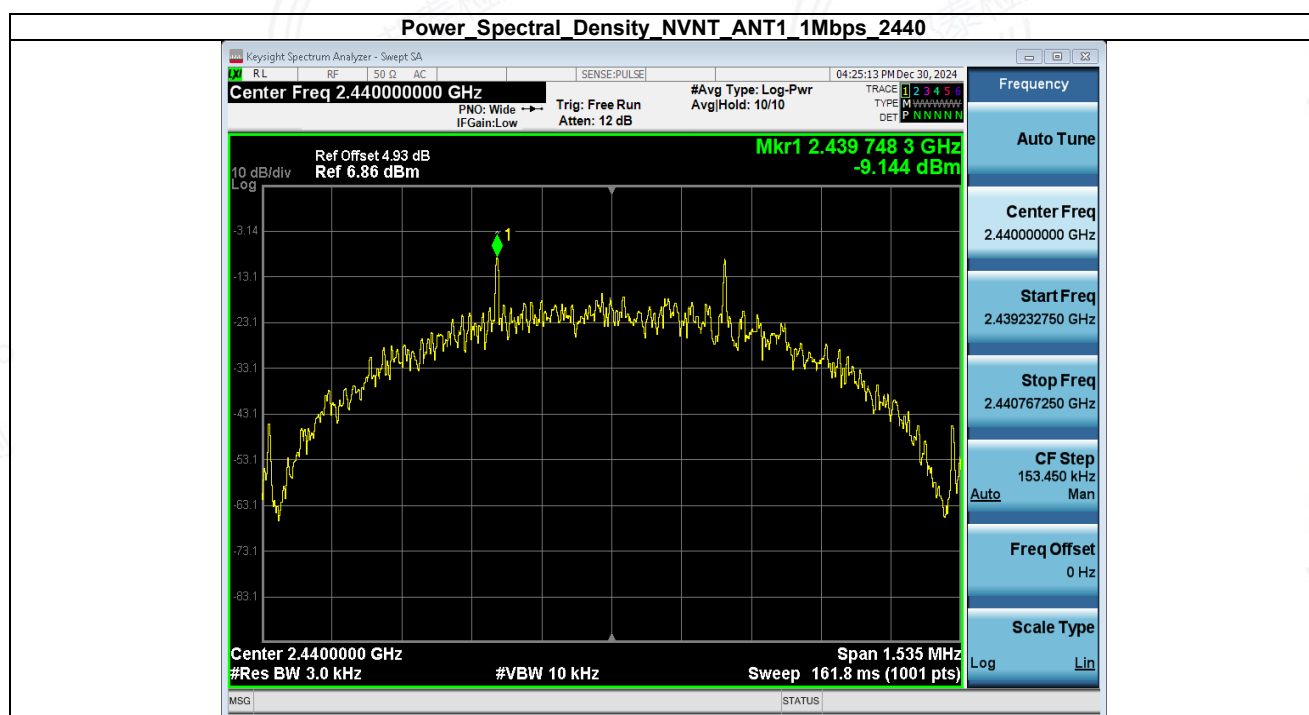
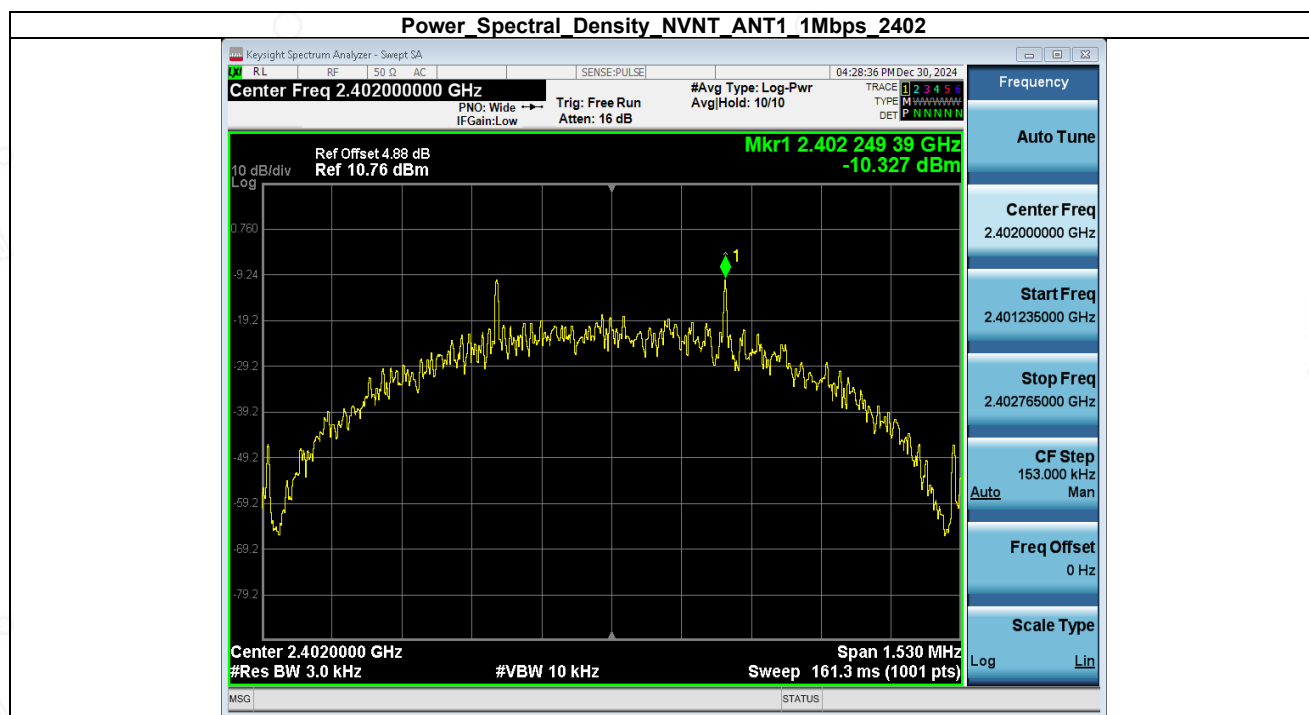
Peak Output Power_NVNT_ANT1_1Mbps_2480





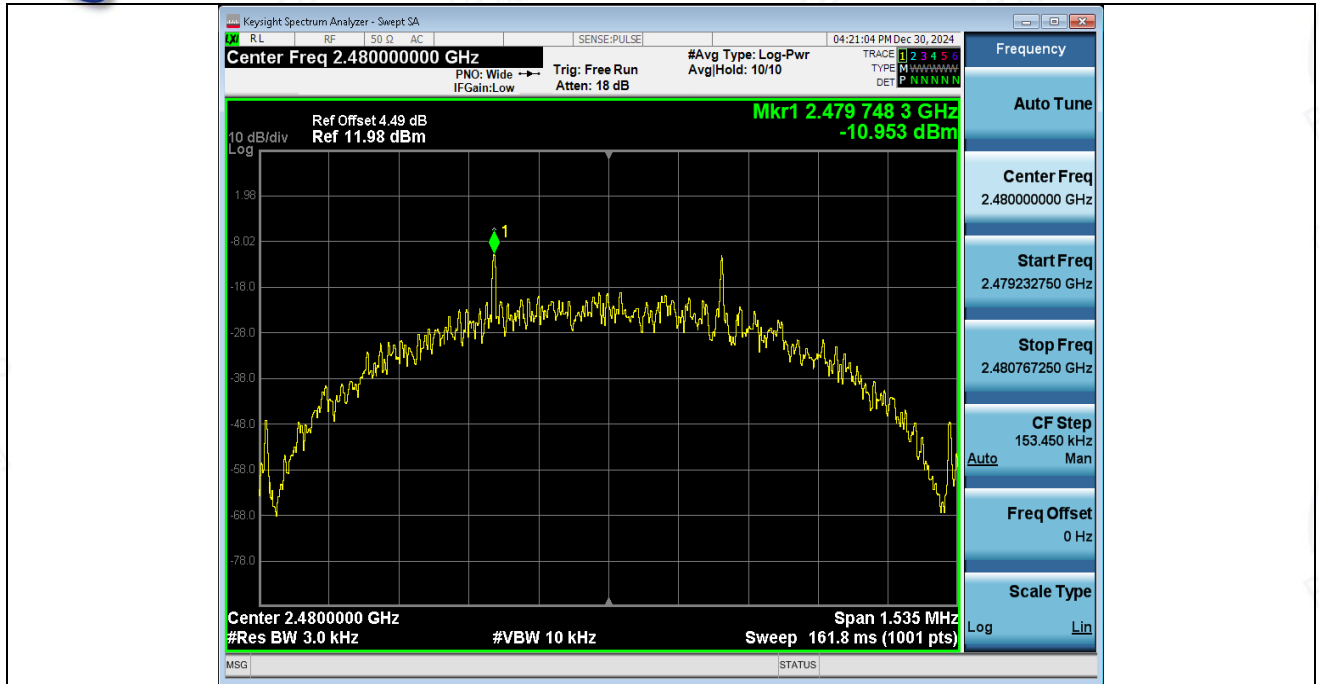
5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-10.33	8	Pass
NVNT	ANT1	1Mbps	2440.00	-9.14	8	Pass
NVNT	ANT1	1Mbps	2480.00	-10.95	8	Pass



Power Spectral Density NVNT ANT1 1Mbps 2480





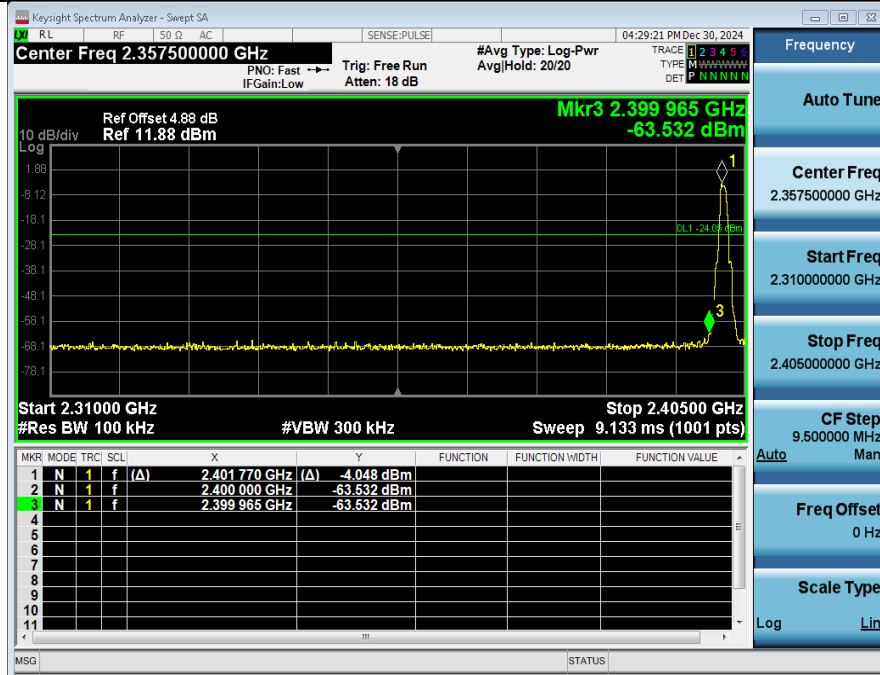
6. Bandedge

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	-4.047	-63.532	-24.047	Pass
NVNT	ANT1	1Mbps	2480.00	2486.500	-4.731	-58.323	-24.731	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Bandedge_NVNT_ANT1_1Mbps_2402



1 Reference_Level_NVNT_ANT1_1Mbps_2480





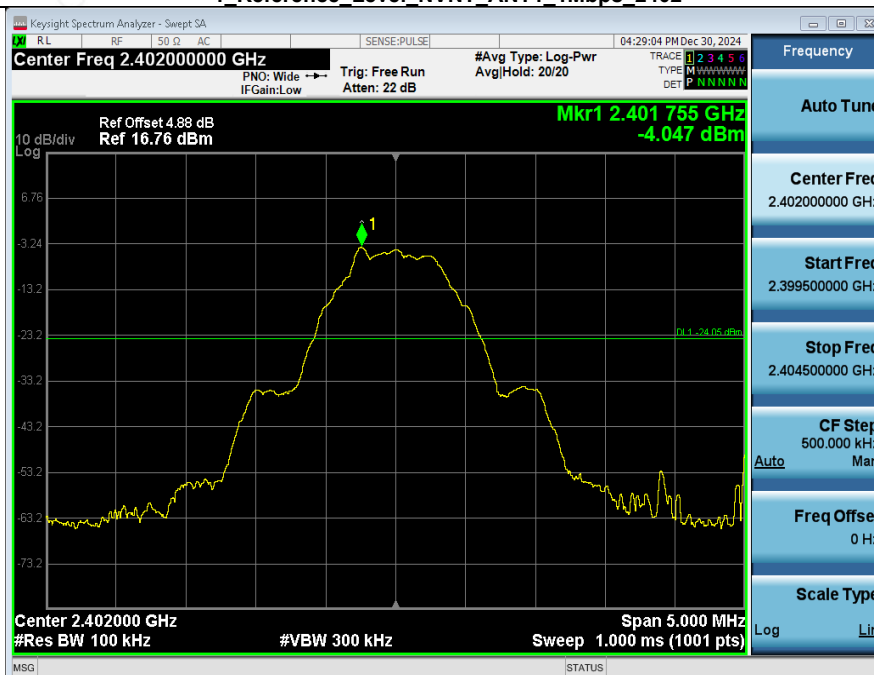
2_Bandedge_NVNT_ANT1_1Mbps_2480



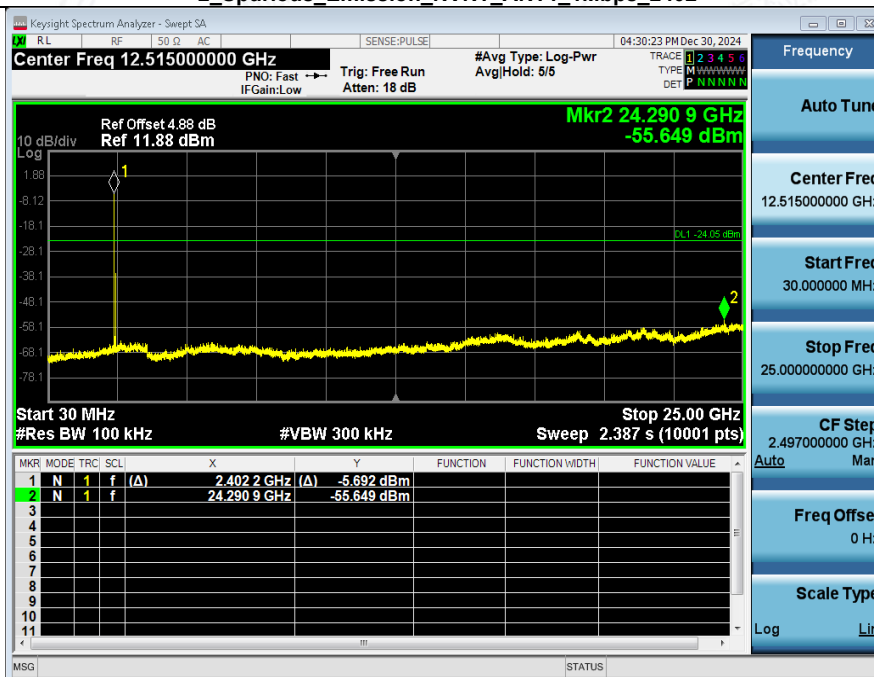
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	-4.047	-55.649	-24.047	Pass
NVNT	ANT1	1Mbps	2440.00	-3.037	-56.291	-23.037	Pass
NVNT	ANT1	1Mbps	2480.00	-4.731	-60.822	-24.731	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Spurious_Emission_NVNT_ANT1_1Mbps_2402

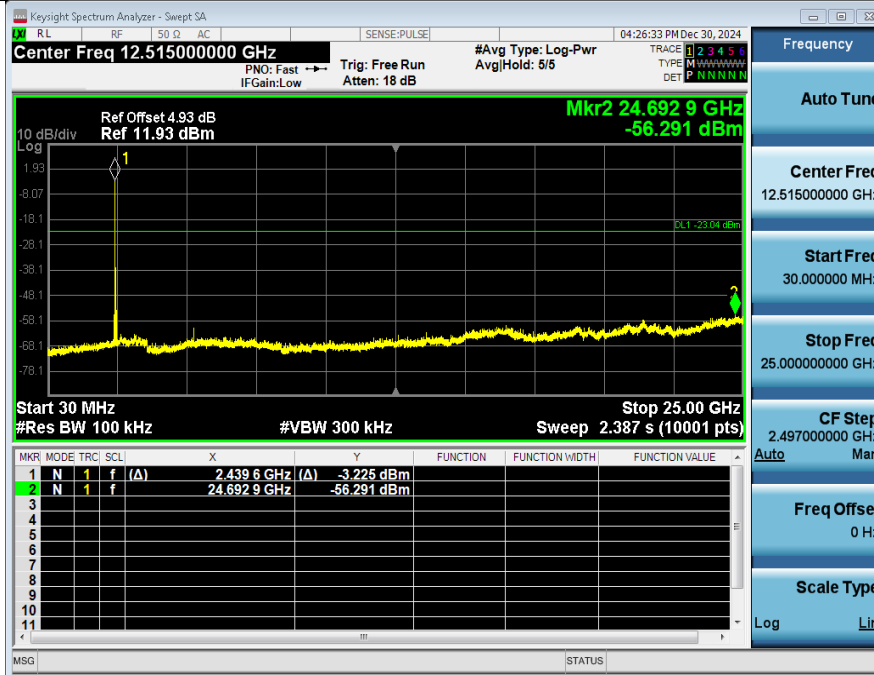


1 Reference_Level_NVNT_ANT1_1Mbps_2440





2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1_Reference_Level_NVNT_ANT1_1Mbps_2480





2_Spurious_Emission_NVNT_ANT1_1Mbps_2480

