

Report No.: NCT25037336E1-1
FCC ID:2BAFB-PL-40RGB
FCC_BLE (Part15.247) Test Data

Table of Contents

1. -6dB Bandwidth	3
2. 99% Occupied Bandwidth	6
3. Duty Cycle	9
4. Peak Output Power	12
5. Power Spectral Density	15
6. Bandedge	18
7. Spurious Emission	22

1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	677.03	500	Pass
NVNT	ANT1	1Mbps	2440.00	671.43	500	Pass
NVNT	ANT1	1Mbps	2480.00	680.85	500	Pass
NVNT	ANT1	2Mbps	2402.00	1324.97	500	Pass
NVNT	ANT1	2Mbps	2440.00	1408.85	500	Pass
NVNT	ANT1	2Mbps	2480.00	1398.55	500	Pass

-6dB_Bandwidth_NVNT_ANT1_1Mbps_2402



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2440



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2480



-6dB_Bandwidth_NVNT_ANT1_2Mbps_2402



-6dB_Bandwidth_NVNT_ANT1_2Mbps_2440

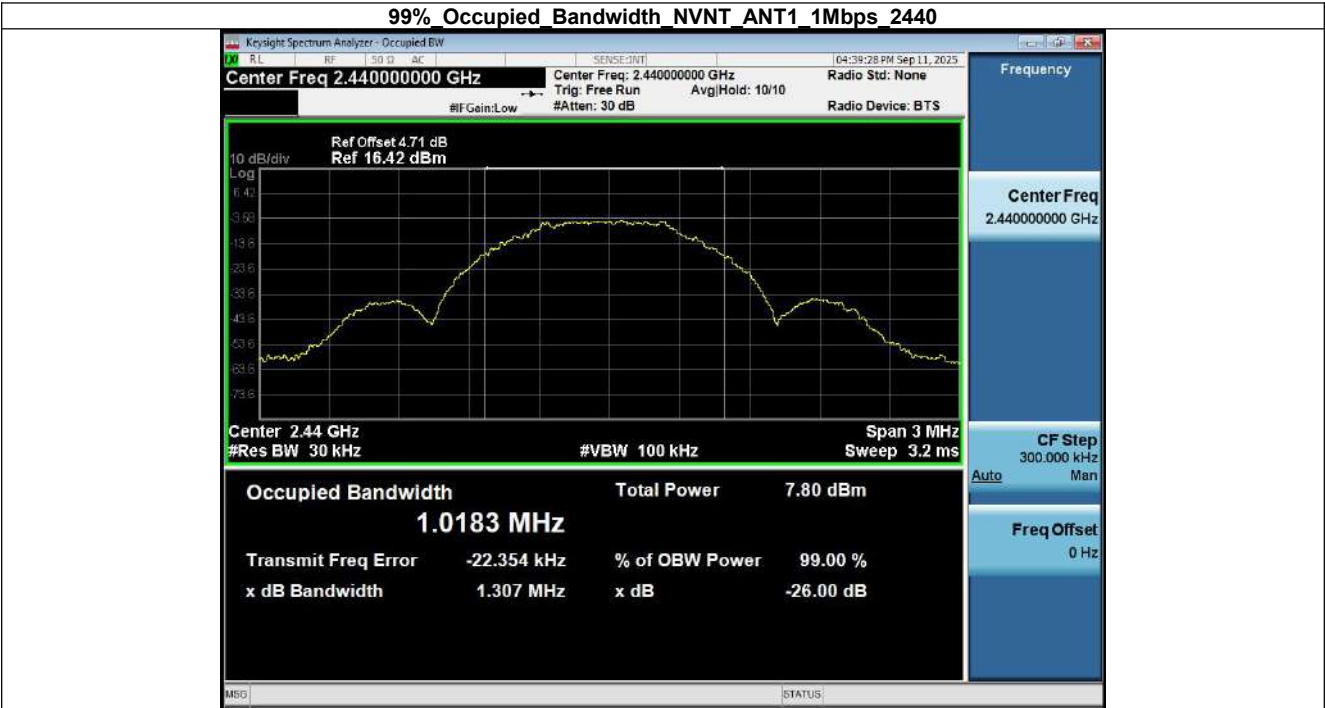


-6dB_Bandwidth_NVNT_ANT1_2Mbps_2480



2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.021
NVNT	ANT1	1Mbps	2440.00	1.018
NVNT	ANT1	1Mbps	2480.00	1.024
NVNT	ANT1	2Mbps	2402.00	2.042
NVNT	ANT1	2Mbps	2440.00	2.034
NVNT	ANT1	2Mbps	2480.00	2.027



99% Occupied Bandwidth NVNT ANT1 1Mbps 2480



99% Occupied Bandwidth NVNT_ANT1_2Mbps_2402



99% Occupied Bandwidth NVNT_ANT1_2Mbps_2440



99% Occupied Bandwidth NVNT_ANT1_2Mbps_2480



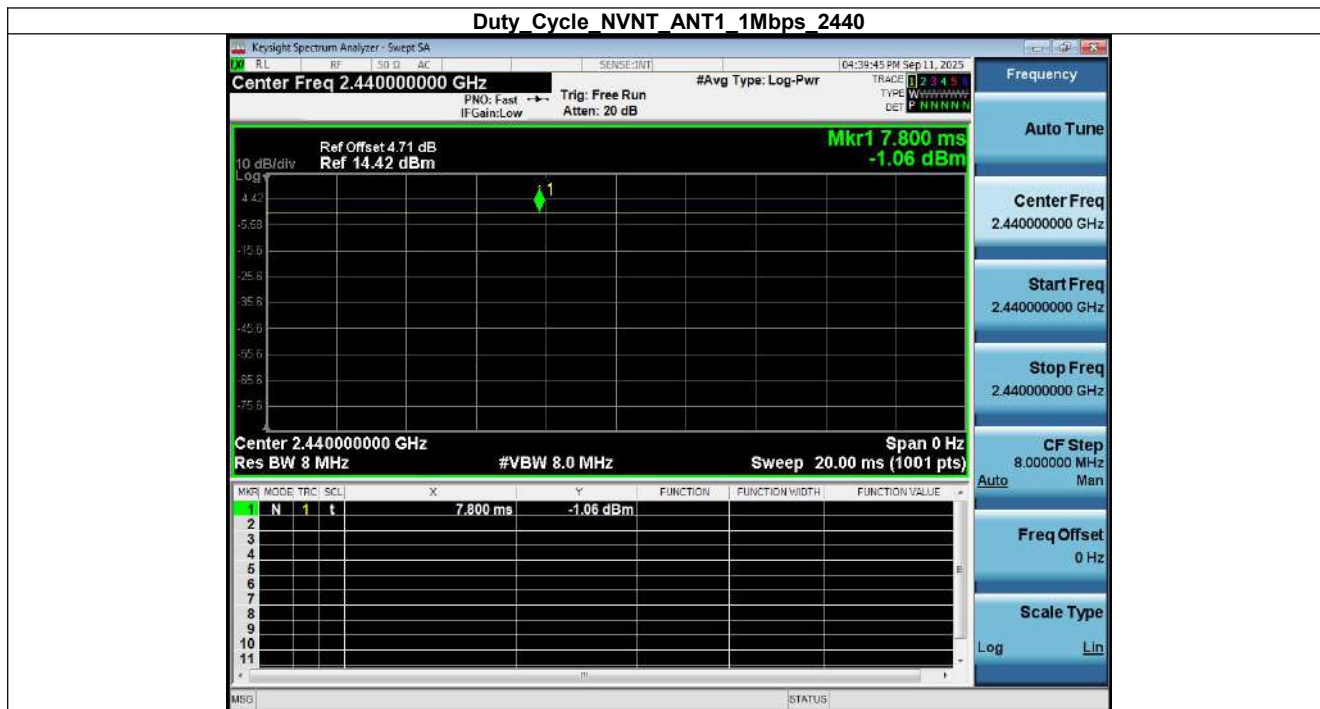
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	100	0.00
NVNT	ANT1	1Mbps	2440.00	100	0.00
NVNT	ANT1	1Mbps	2480.00	100	0.00
NVNT	ANT1	2Mbps	2402.00	100	0.00
NVNT	ANT1	2Mbps	2440.00	100	0.00
NVNT	ANT1	2Mbps	2480.00	100	0.00

Duty_Cycle_NVNT_ANT1_1Mbps_2402



Duty_Cycle_NVNT_ANT1_1Mbps_2440



Duty_Cycle_NVNT_ANT1_1Mbps_2480



Duty_Cycle_NVNT_ANT1_2Mbps_2402



Duty_Cycle_NVNT_ANT1_2Mbps_2440



Duty Cycle_NVNT_ANT1_2Mbps_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	0.10	1.02	1000	Pass
NVNT	ANT1	1Mbps	2440.00	-1.01	0.79	1000	Pass
NVNT	ANT1	1Mbps	2480.00	-2.27	0.59	1000	Pass
NVNT	ANT1	2Mbps	2402.00	0.14	1.03	1000	Pass
NVNT	ANT1	2Mbps	2440.00	-1.09	0.78	1000	Pass
NVNT	ANT1	2Mbps	2480.00	-2.23	0.60	1000	Pass



Peak_Output_Power_NVNT_ANT1_1Mbps_2480



Peak Output Power_NVNT_ANT1_2Mbps_2402



Peak Output Power_NVNT_ANT1_2Mbps_2440

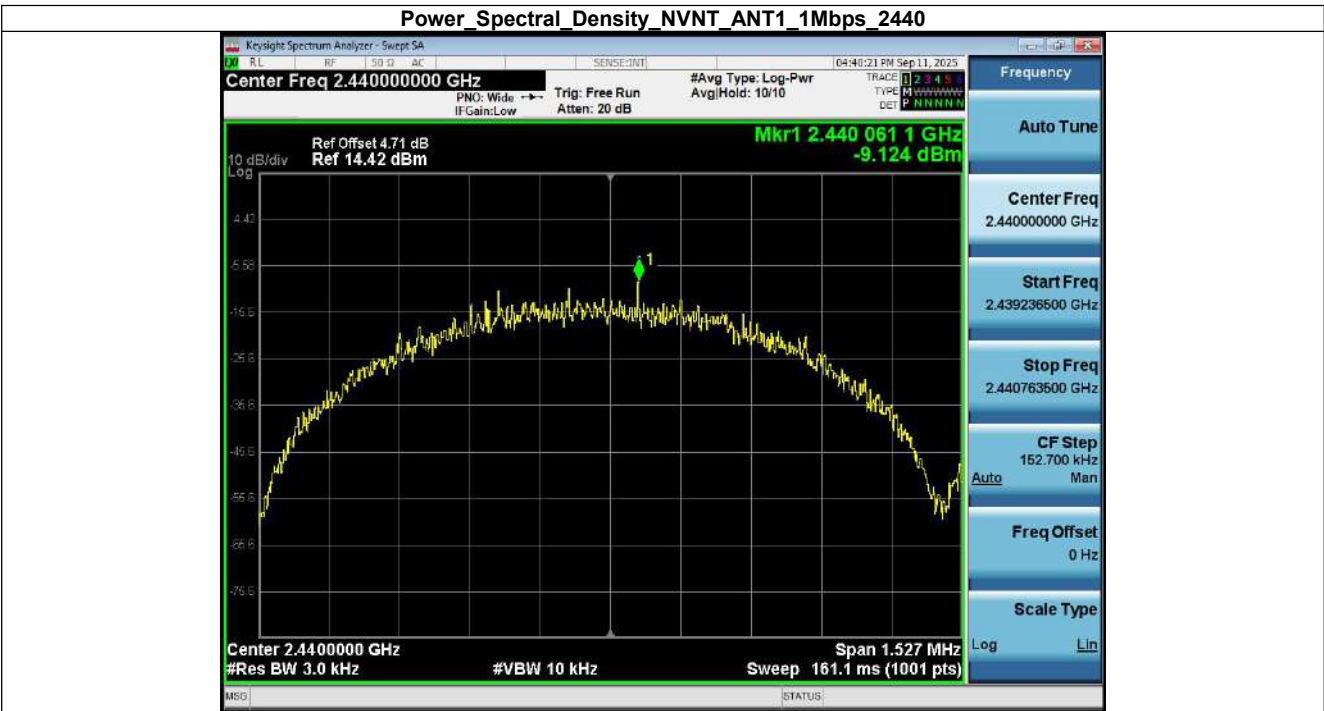
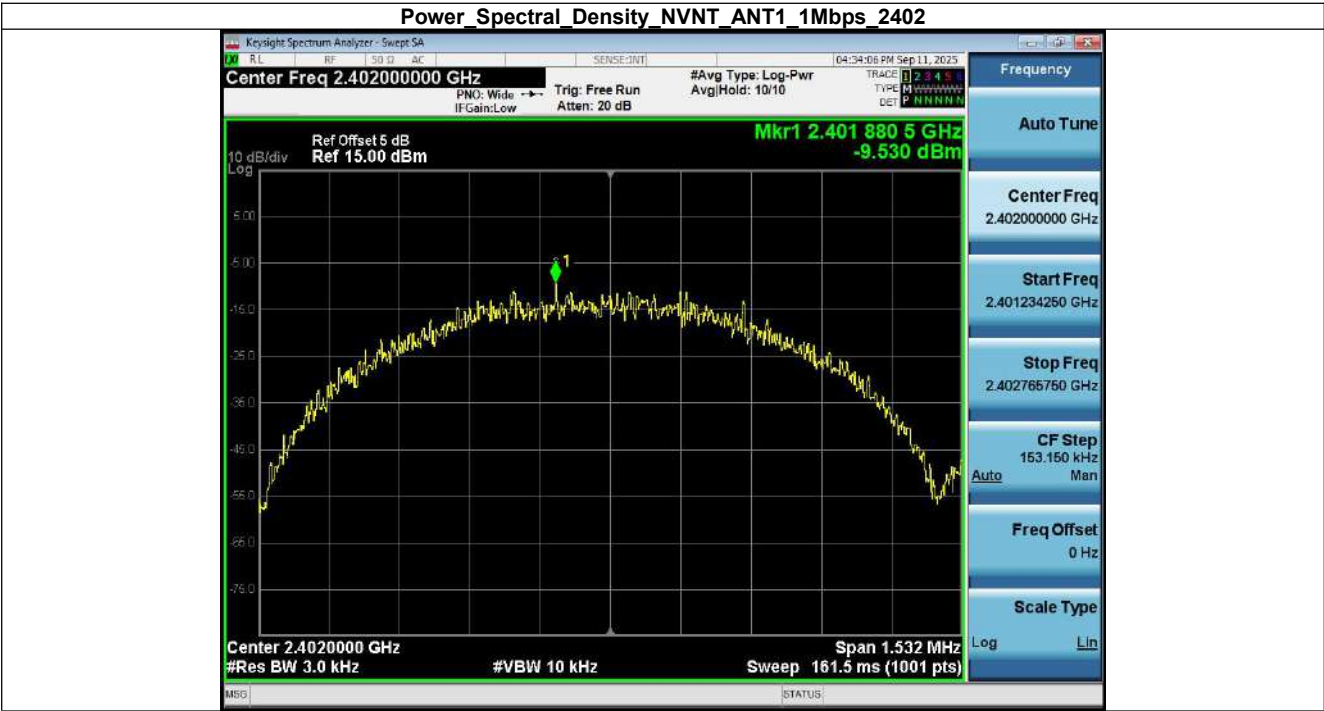


Peak Output Power_NVNT_ANT1_2Mbps_2480



5. Power Spectral Density

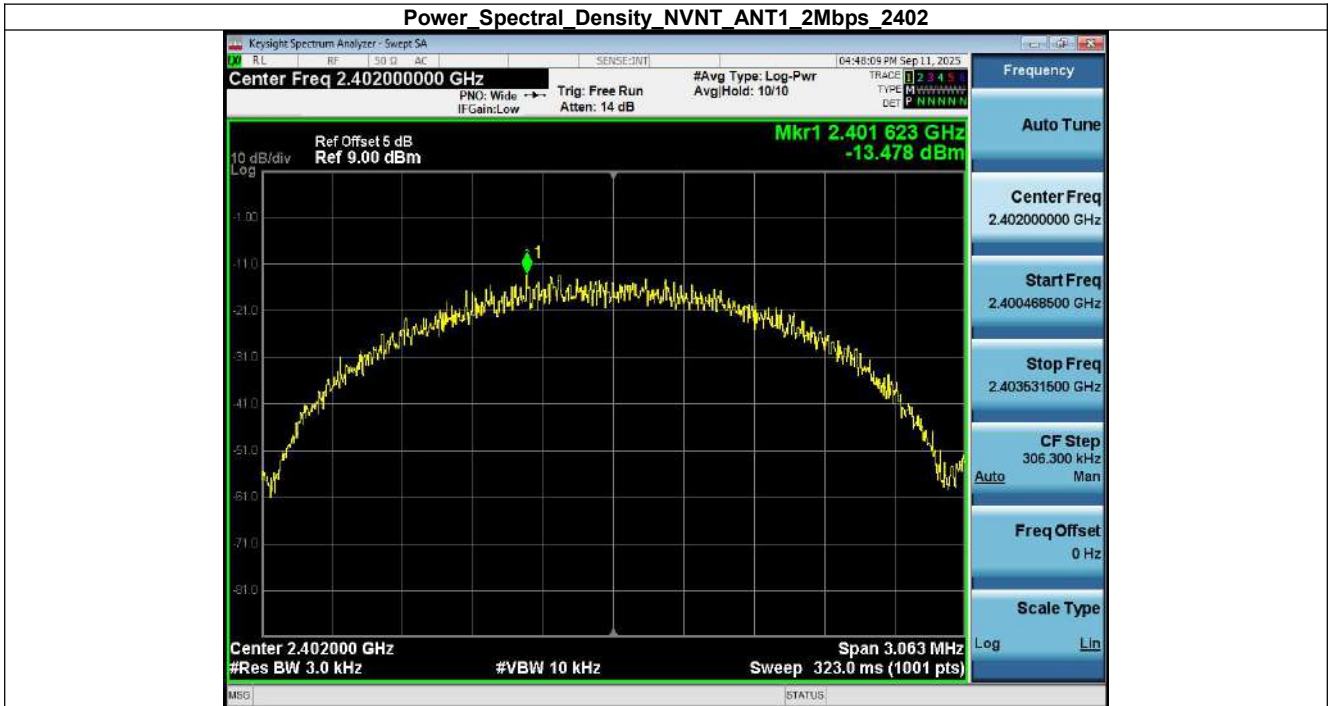
Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-9.53	8	Pass
NVNT	ANT1	1Mbps	2440.00	-9.12	8	Pass
NVNT	ANT1	1Mbps	2480.00	-13.13	8	Pass
NVNT	ANT1	2Mbps	2402.00	-13.48	8	Pass
NVNT	ANT1	2Mbps	2440.00	-14.23	8	Pass
NVNT	ANT1	2Mbps	2480.00	-14.97	8	Pass



Power Spectral Density NVNT ANT1 1Mbps 2480



Power_Spectral_Density_NVNT_ANT1_2Mbps_2402



Power_Spectral_Density_NVNT_ANT1_2Mbps_2440



Power Spectral Density_NVNT_ANT1_2Mbps_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	2379.635	0.011	-55.420	-19.989	Pass
NVNT	ANT1	1Mbps	2480.00	2498.075	-2.550	-64.726	-22.550	Pass
NVNT	ANT1	2Mbps	2402.00	2399.965	-1.500	-34.143	-21.500	Pass
NVNT	ANT1	2Mbps	2480.00	2497.575	-4.026	-63.022	-24.026	Pass

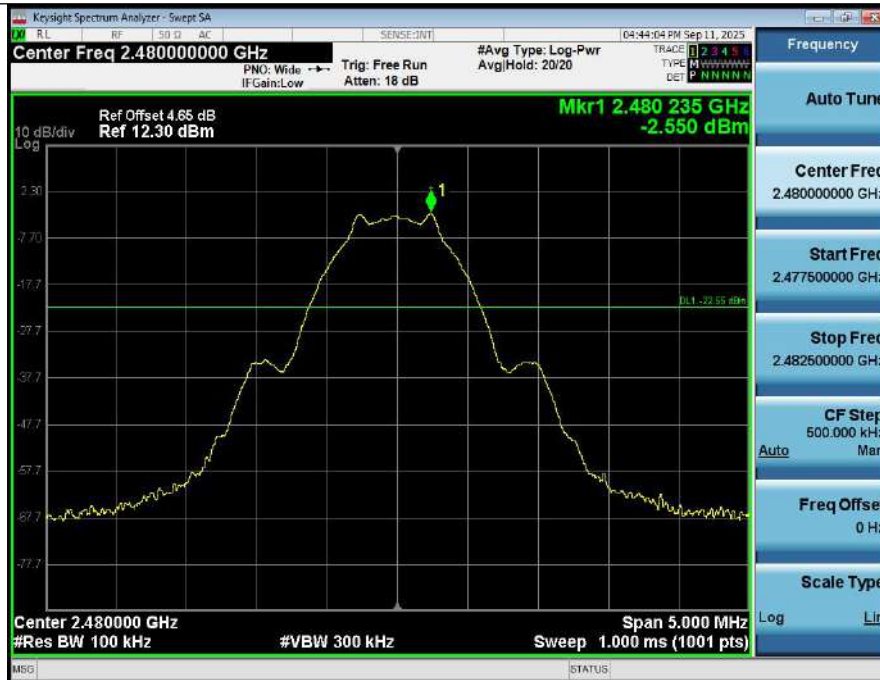
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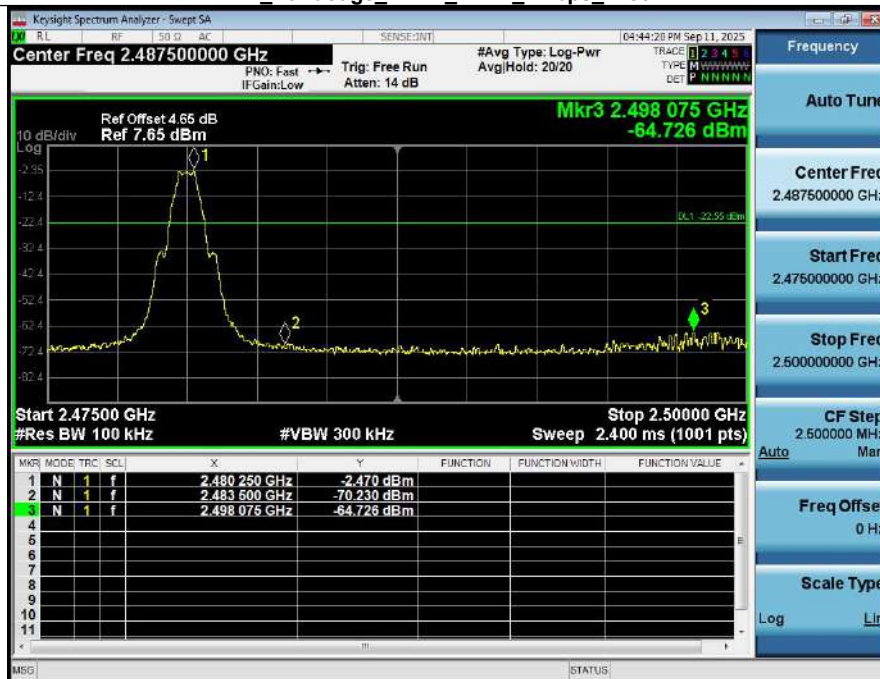
2_Bandedge_NVNT_ANT1_1Mbps_2402



1_Reference_Level_NVNT_ANT1_1Mbps_2480



2_Bandedge_NVNT_ANT1_1Mbps_2480



1_Reference_Level_NVNT_ANT1_2Mbps_2402



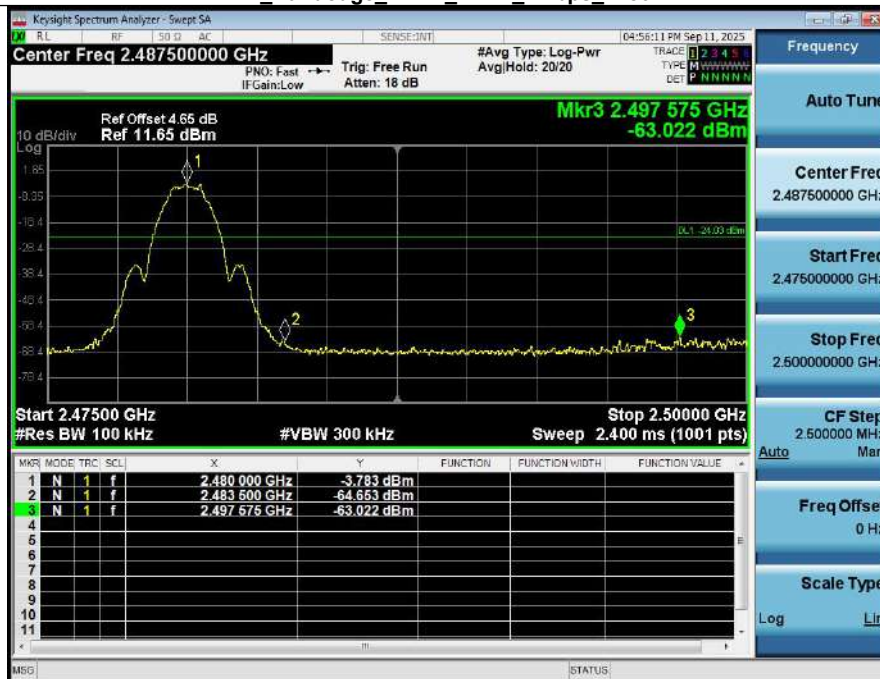
2_Bandedge_NVNT_ANT1_2Mbps_2402



1_Reference_Level_NVNT_ANT1_2Mbps_2480

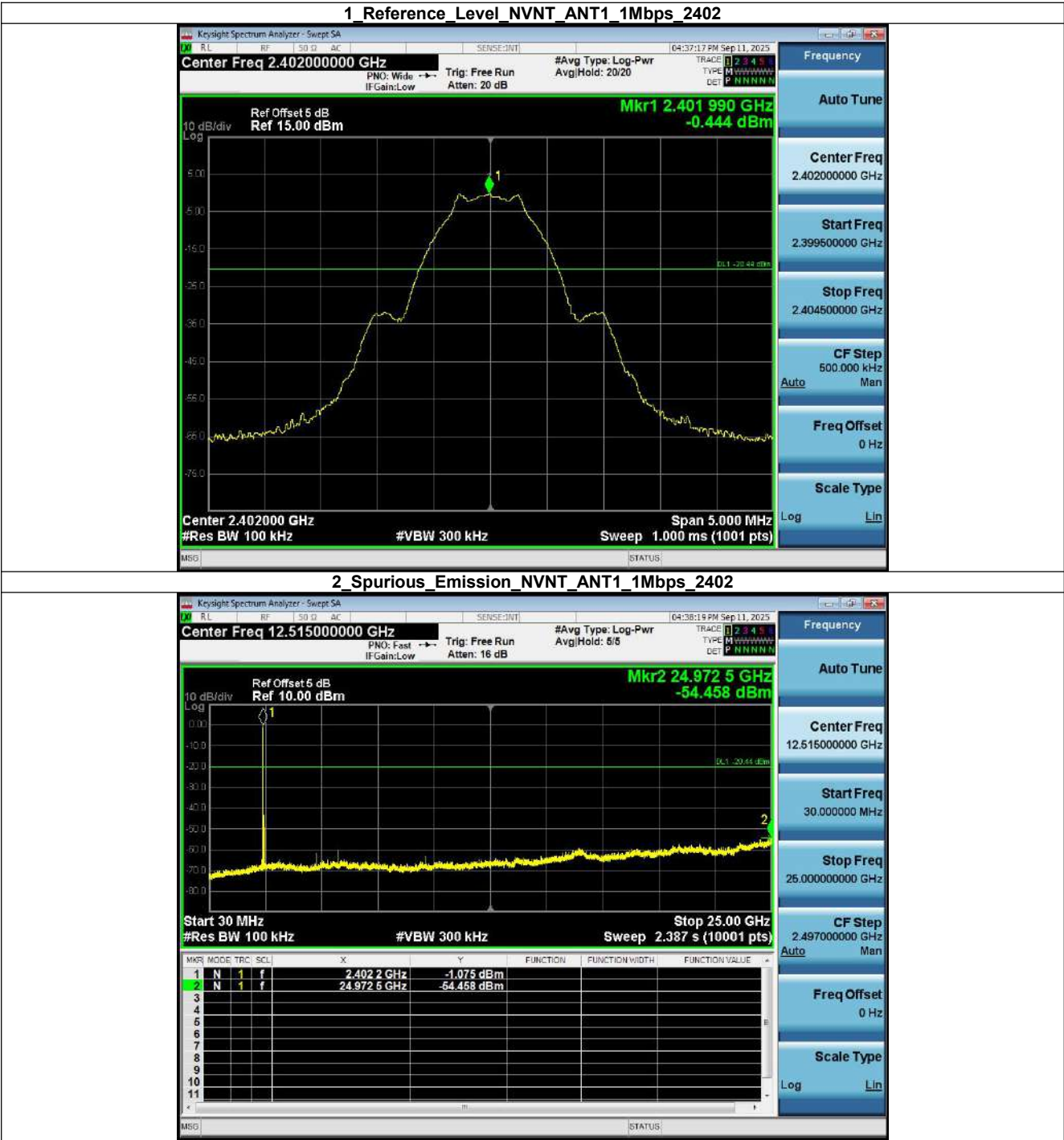


2_Bandedge_NVNT_ANT1_2Mbps_2480

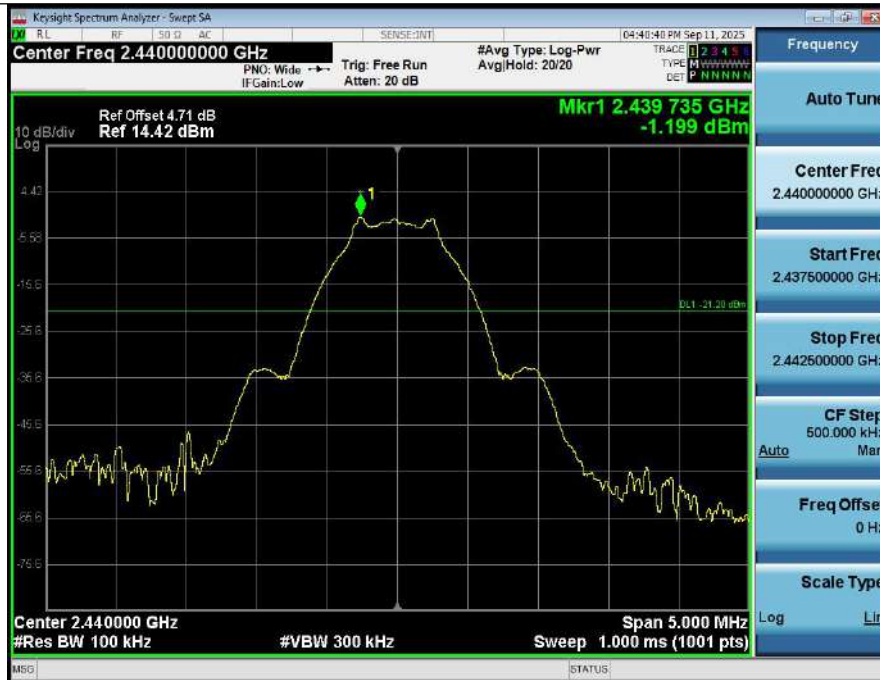


7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	-0.444	-54.458	-20.444	Pass
NVNT	ANT1	1Mbps	2440.00	-1.199	-55.045	-21.199	Pass
NVNT	ANT1	1Mbps	2480.00	-2.550	-56.788	-22.550	Pass
NVNT	ANT1	2Mbps	2402.00	-1.500	-50.547	-21.500	Pass
NVNT	ANT1	2Mbps	2440.00	-2.612	-56.792	-22.612	Pass
NVNT	ANT1	2Mbps	2480.00	-4.026	-50.399	-24.026	Pass



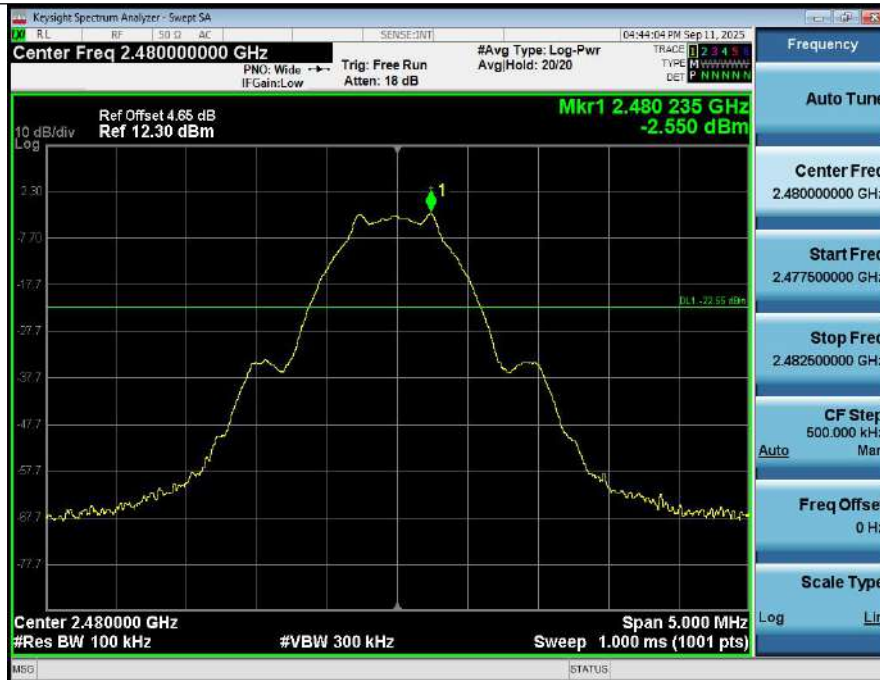
1 Reference_Level_NVNT_ANT1_1Mbps_2440



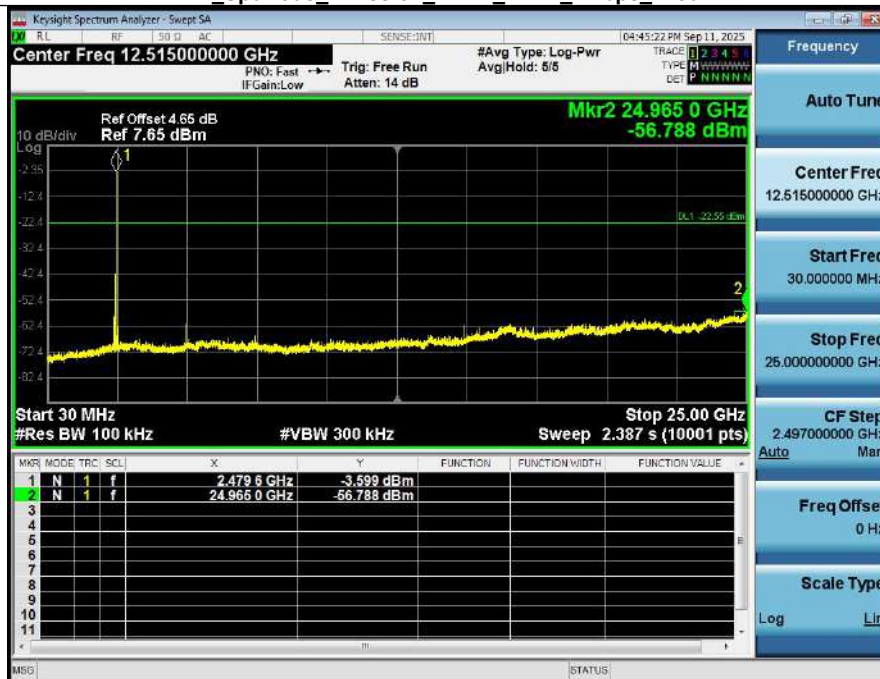
2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1_Reference_Level_NVNT_ANT1_1Mbps_2480



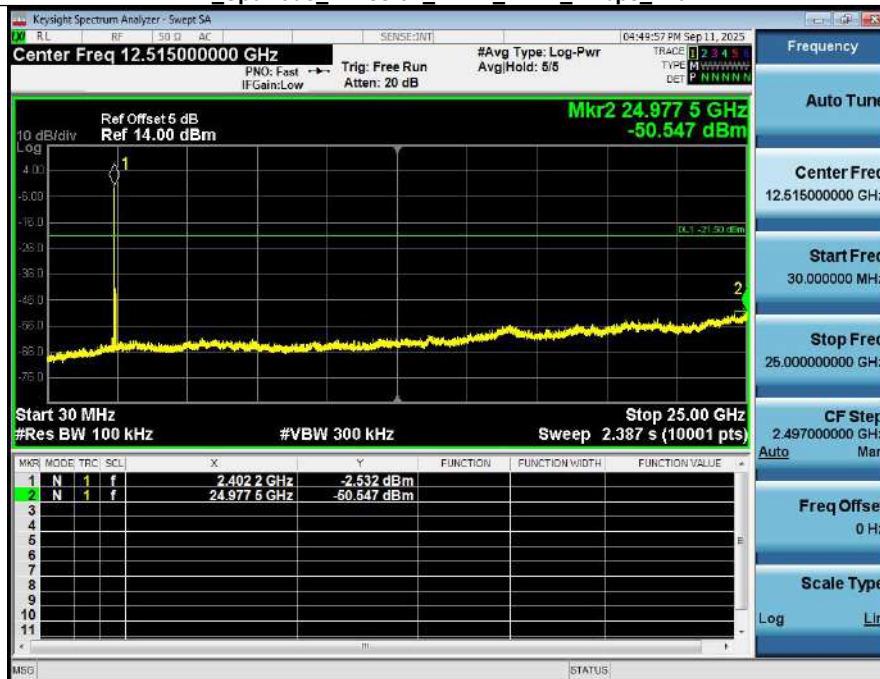
2_Spurious_Emission_NVNT_ANT1_1Mbps_2480



1_Reference_Level_NVNT_ANT1_2Mbps_2402



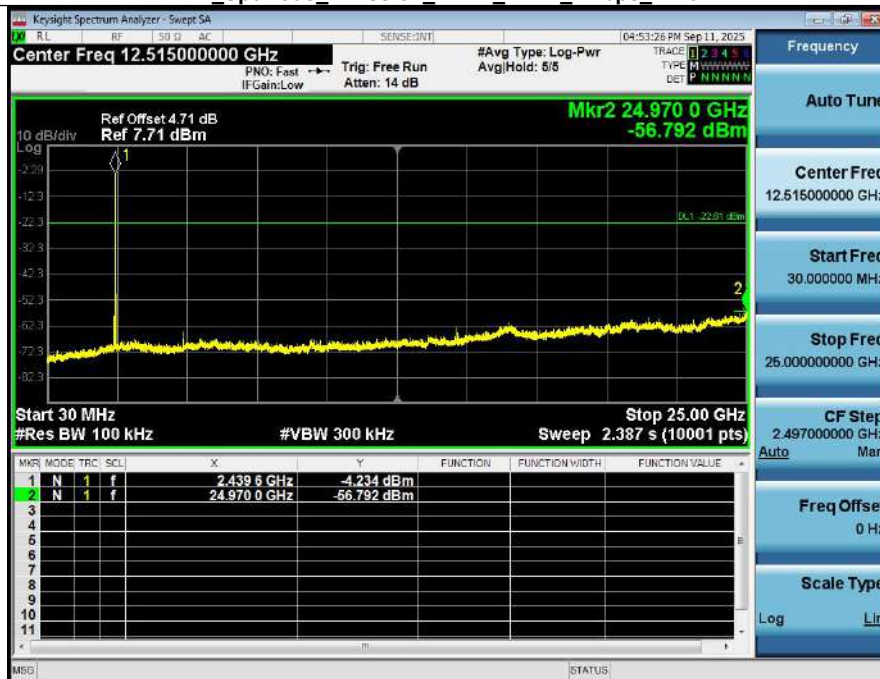
2_Spurious_Emission_NVNT_ANT1_2Mbps_2402



1_Reference_Level_NVNT_ANT1_2Mbps_2440



2_Spurious_Emission_NVNT_ANT1_2Mbps_2440



1_Reference_Level_NVNT_ANT1_2Mbps_2480



2_Spurious_Emission_NVNT_ANT1_2Mbps_2480

