

FCC_BLE (Part15.247) Test Data

FCC ID:2BC96NB-CMD02

Product: Birdfy Cam BD3A

Model Name: NB-CMD02, NB-CMD02-XXXXXX (XXXXXX can be A-Z, 0-9,a-z or blank, indicate different color)

Brand: Birdfy

Report No.: NCT260301097XE1-1

Prepared for

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Prepared by

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1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	669.06	500	Pass
NVNT	ANT1	1Mbps	2440.00	668.01	500	Pass
NVNT	ANT1	1Mbps	2480.00	669.35	500	Pass
NVNT	ANT1	2Mbps	2402.00	854.52	500	Pass
NVNT	ANT1	2Mbps	2440.00	852.91	500	Pass
NVNT	ANT1	2Mbps	2480.00	1243.11	500	Pass



-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	1.026
NVNT	ANT1	1Mbps	2440.00	1.029
NVNT	ANT1	1Mbps	2480.00	1.027
NVNT	ANT1	2Mbps	2402.00	2.028
NVNT	ANT1	2Mbps	2440.00	2.026
NVNT	ANT1	2Mbps	2480.00	2.051



99% Occupied Bandwidth NVNT ANT1 1Mbps 2480



99% Occupied Bandwidth NVNT_ANT1_2Mbps_2402



99% Occupied Bandwidth NVNT_ANT1_2Mbps_2440



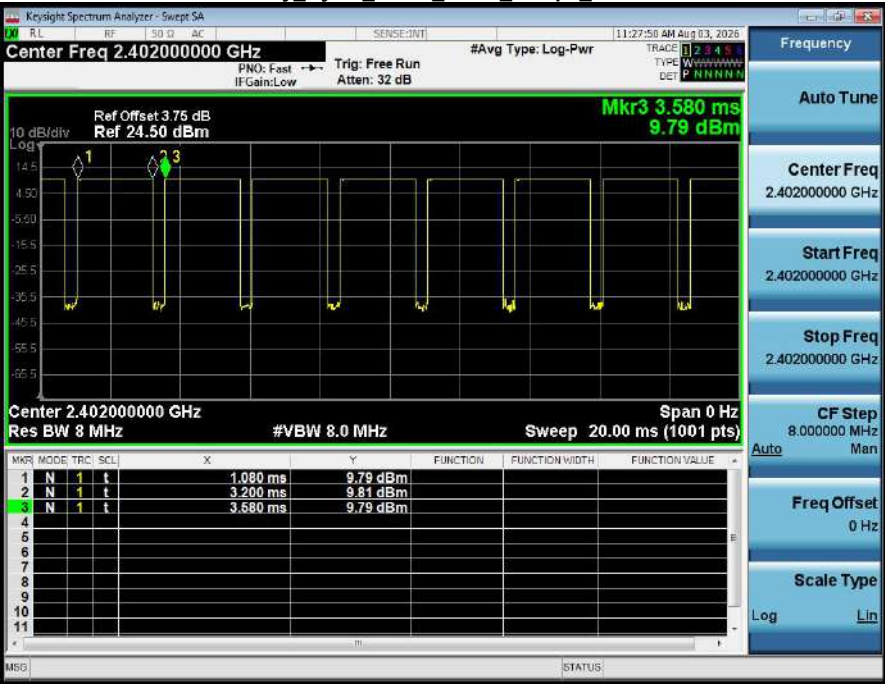
99% Occupied Bandwidth NVNT_ANT1_2Mbps_2480



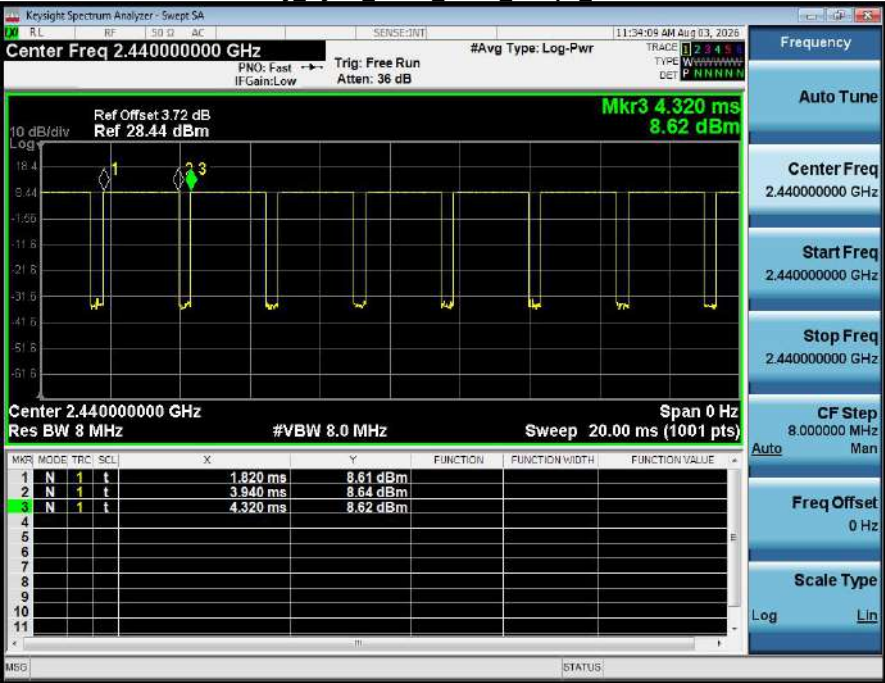
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	85.60	0.68
NVNT	ANT1	1Mbps	2440.00	85.60	0.68
NVNT	ANT1	1Mbps	2480.00	85.60	0.68
NVNT	ANT1	2Mbps	2402.00	12.50	9.03
NVNT	ANT1	2Mbps	2440.00	15.63	8.06
NVNT	ANT1	2Mbps	2480.00	56.99	2.44

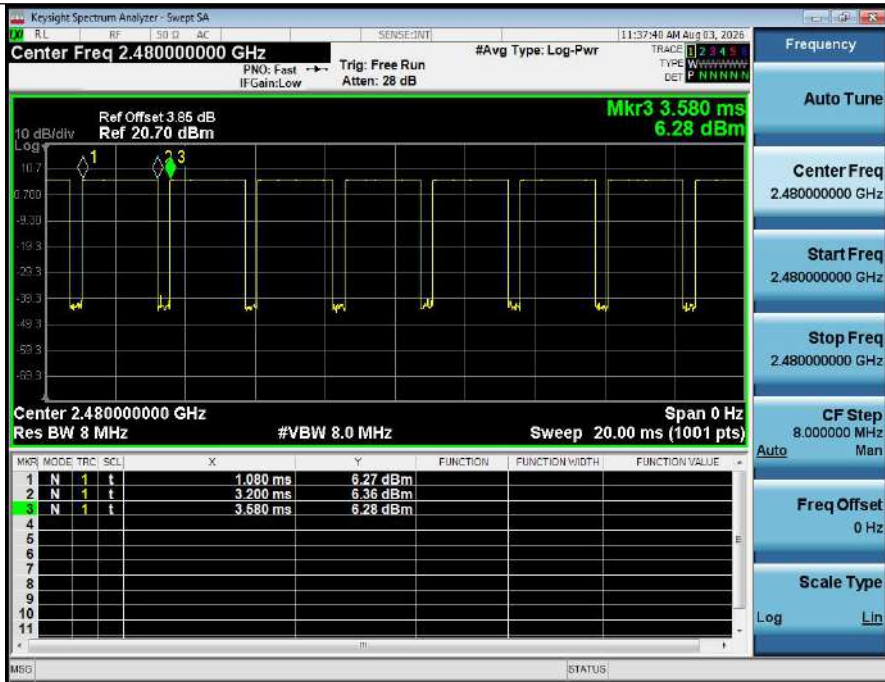
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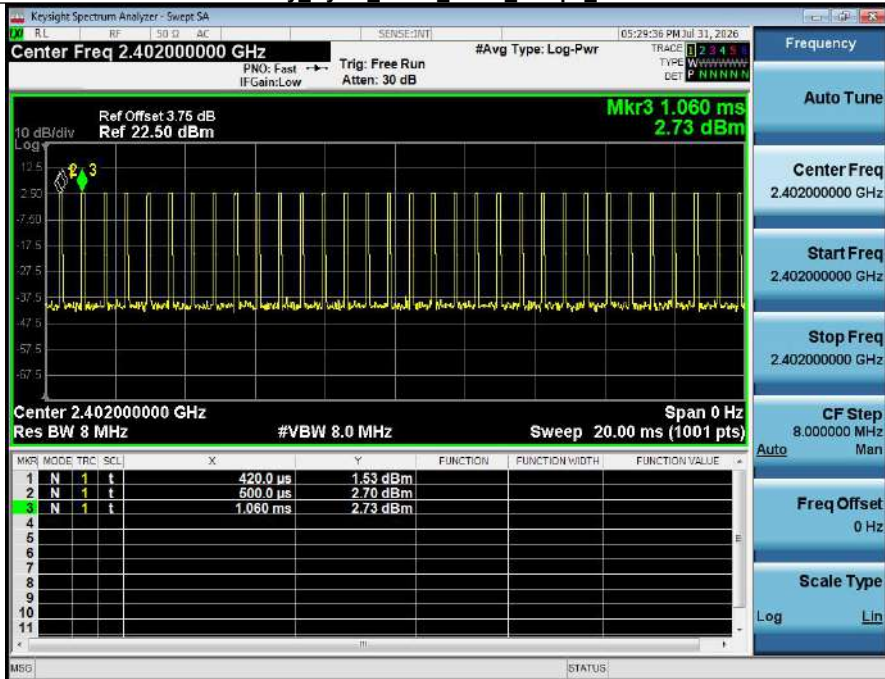
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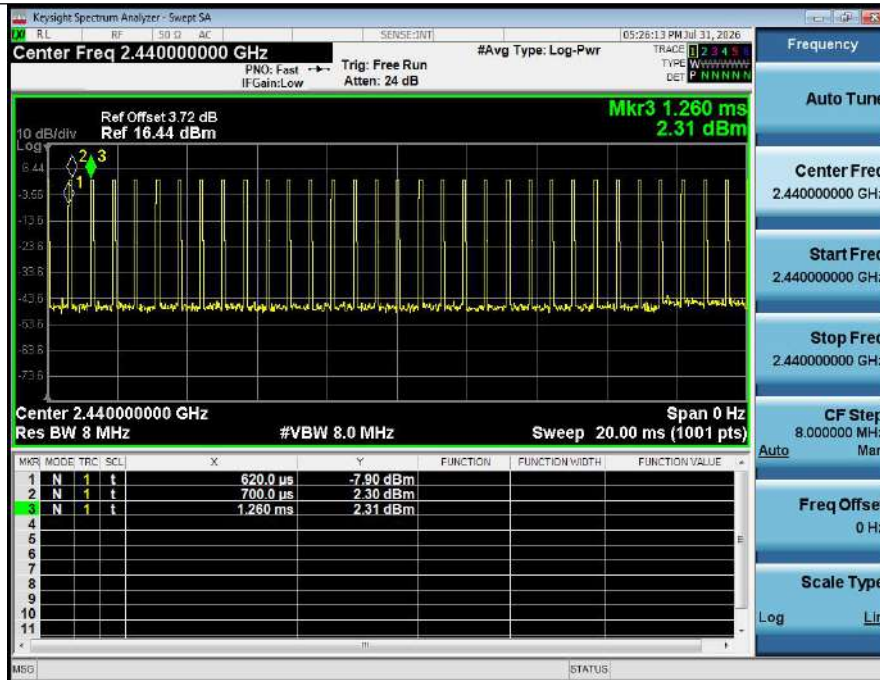
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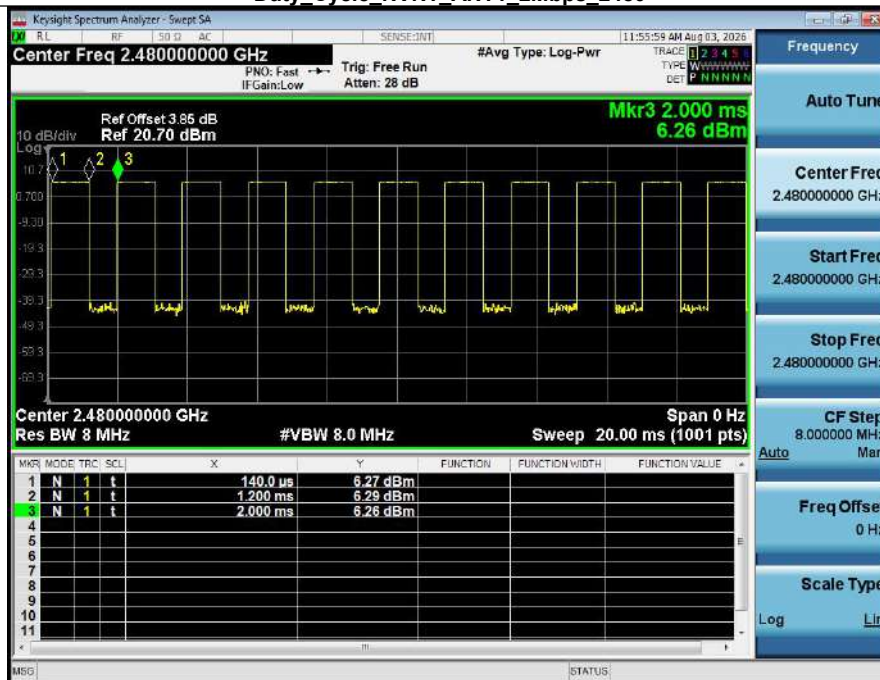
Duty Cycle_NVNT_ANT1_2Mbps_2402



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	2.69	1.86	1000	Pass
NVNT	ANT1	1Mbps	2440.00	2.21	1.66	1000	Pass
NVNT	ANT1	1Mbps	2480.00	2.03	1.59	1000	Pass
NVNT	ANT1	2Mbps	2402.00	2.79	1.90	1000	Pass
NVNT	ANT1	2Mbps	2440.00	2.36	1.72	1000	Pass
NVNT	ANT1	2Mbps	2480.00	2.10	1.62	1000	Pass

Peak_Output_Power_NVNT_ANT1_1Mbps_2402



Peak_Output_Power_NVNT_ANT1_1Mbps_2440



Peak_Output_Power_NVNT_ANT1_1Mbps_2480



Peak Output Power_NVNT_ANT1_2Mbps_2402



Peak Output Power_NVNT_ANT1_2Mbps_2440

5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-6.10	8	Pass
NVNT	ANT1	1Mbps	2440.00	-7.51	8	Pass
NVNT	ANT1	1Mbps	2480.00	-9.77	8	Pass
NVNT	ANT1	2Mbps	2402.00	-18.03	8	Pass
NVNT	ANT1	2Mbps	2440.00	-18.42	8	Pass
NVNT	ANT1	2Mbps	2480.00	-13.17	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



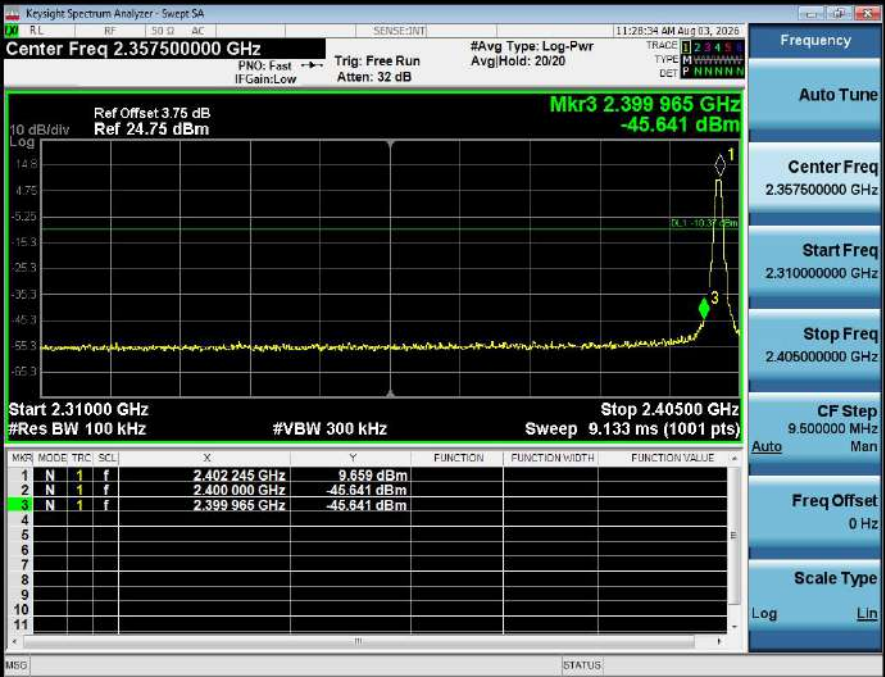
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	9.632	-45.641	-10.368	Pass
NVNT	ANT1	1Mbps	2480.00	2484.000	6.124	-52.963	-13.876	Pass
NVNT	ANT1	2Mbps	2402.00	2399.965	2.484	-31.394	-17.516	Pass
NVNT	ANT1	2Mbps	2480.00	2496.500	5.017	-53.815	-14.983	Pass

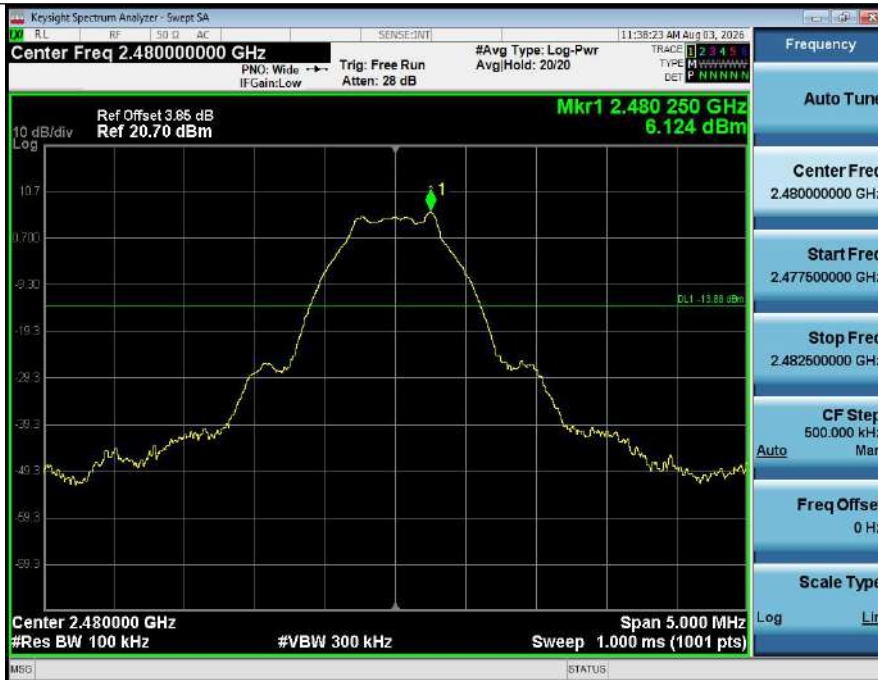
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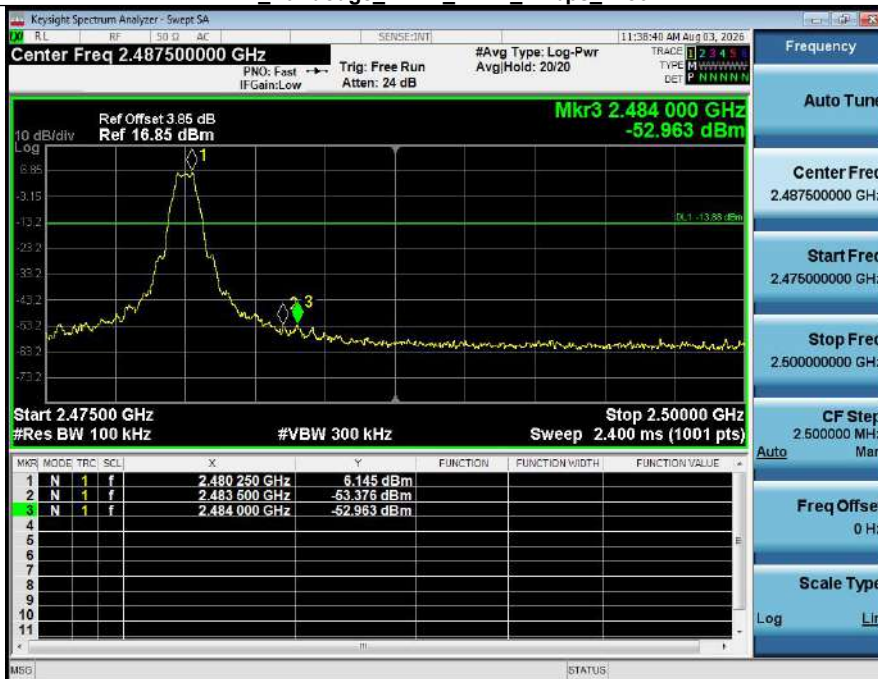
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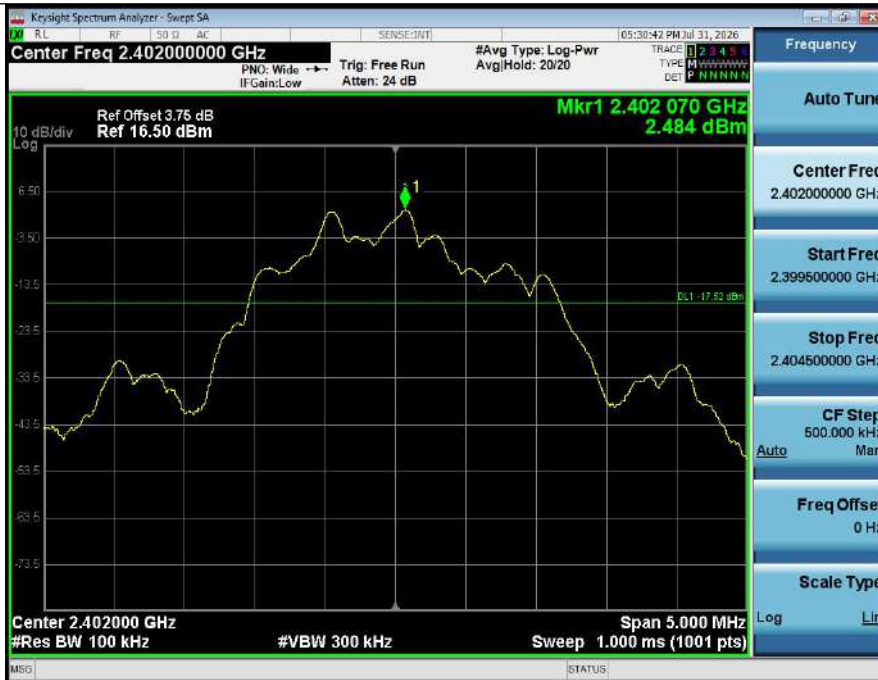
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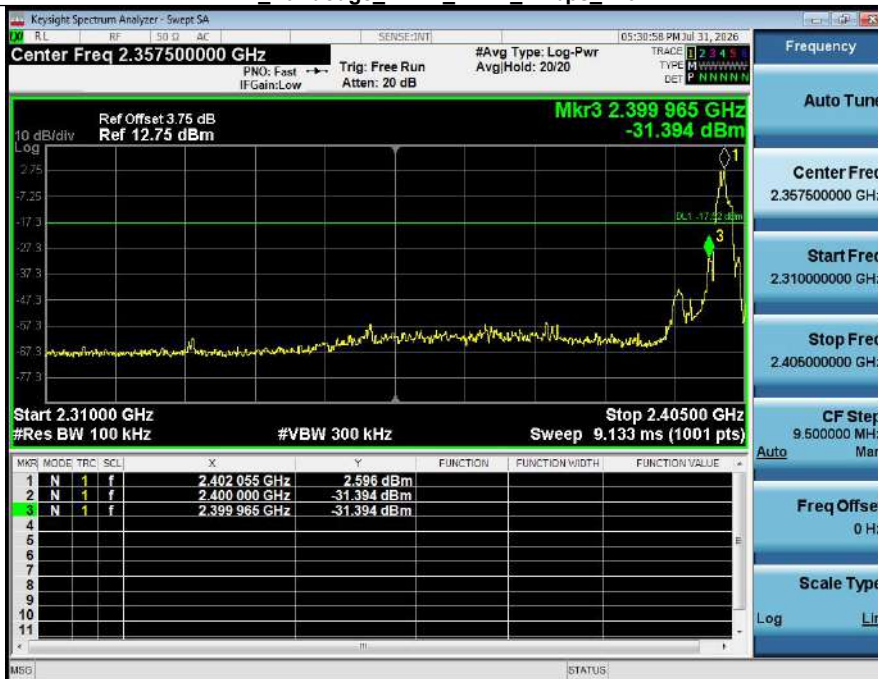
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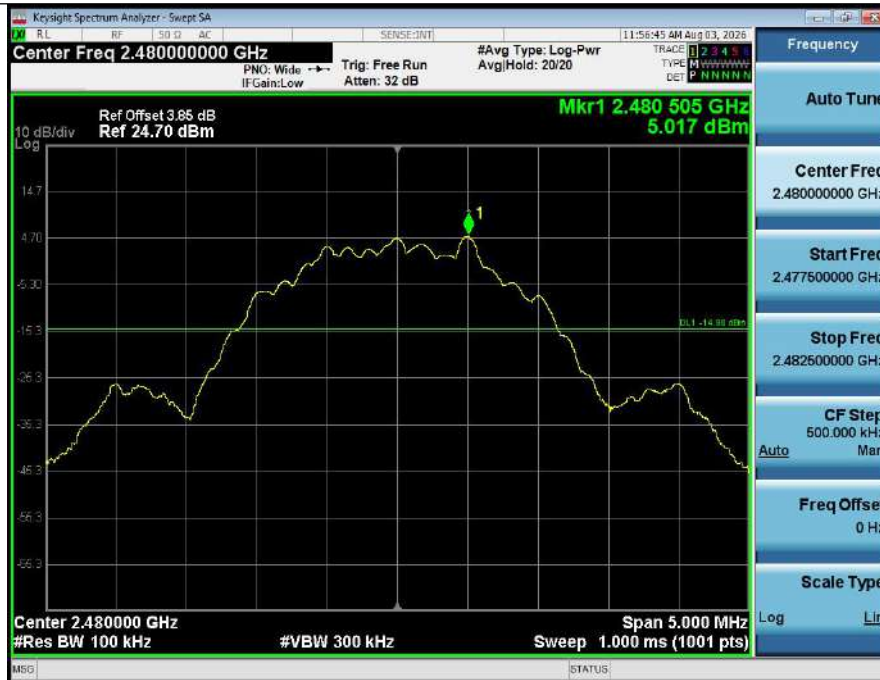
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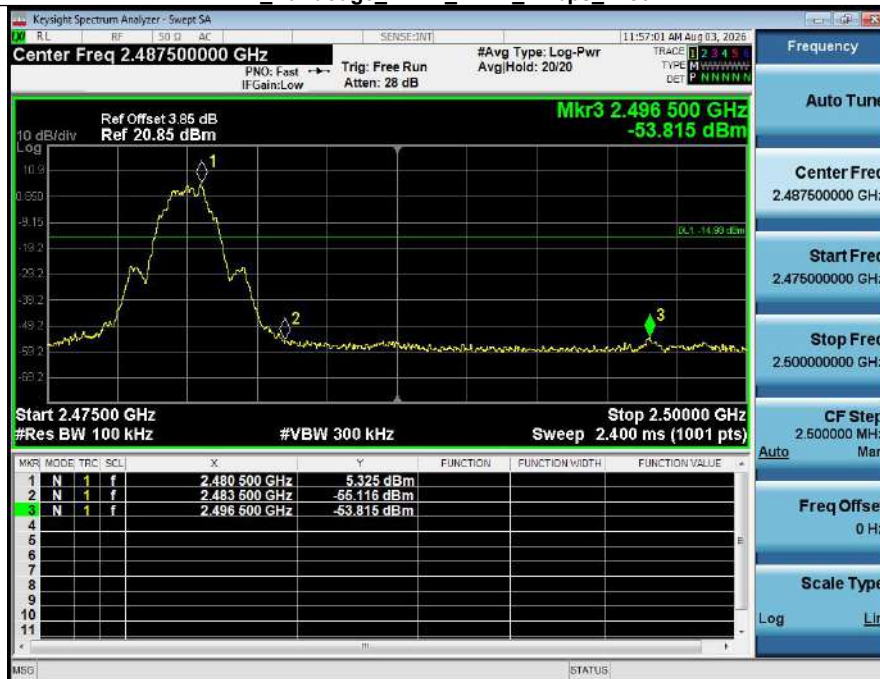
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1_Reference_Level_NVNT_ANT1_2Mbps_2480



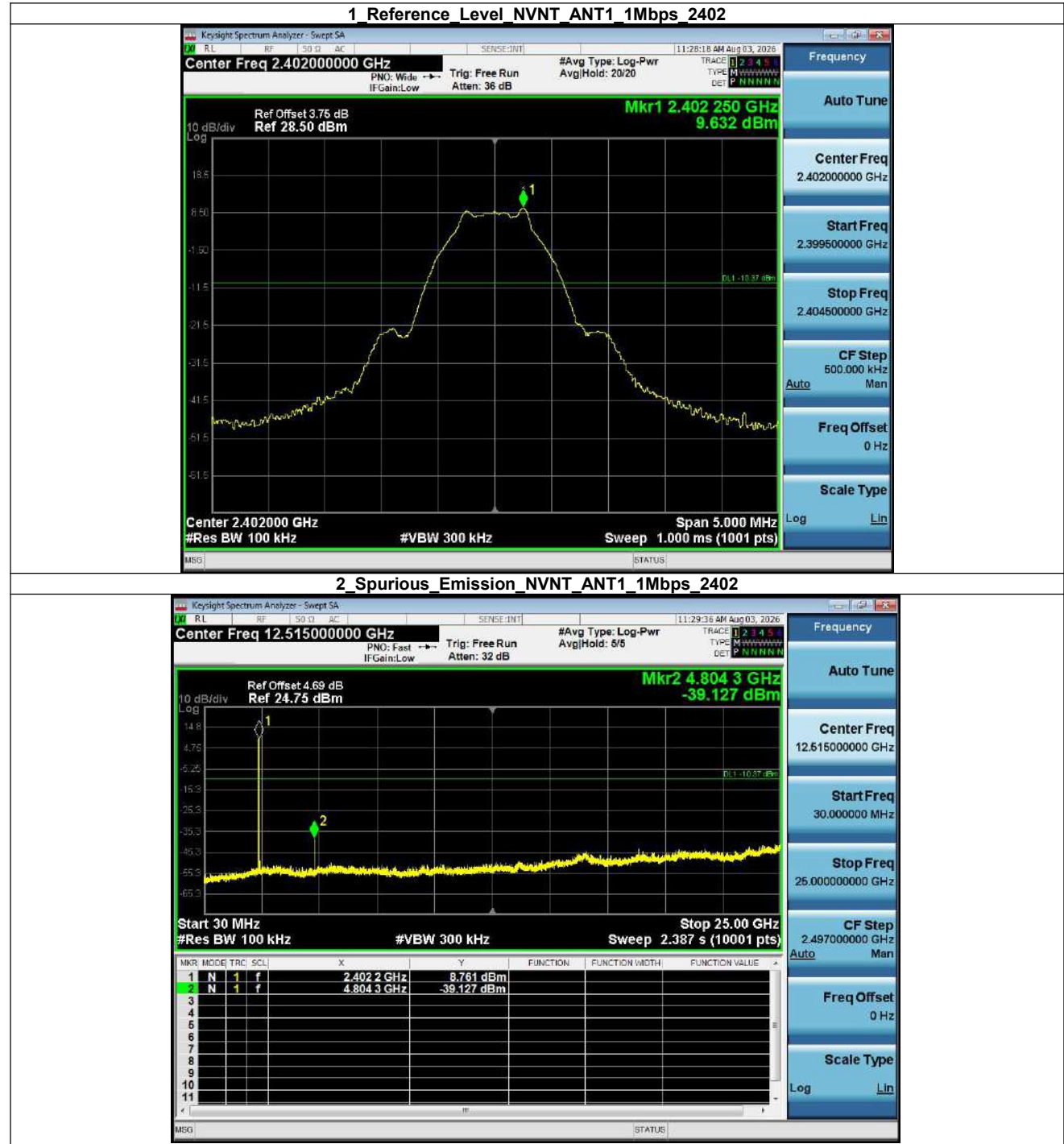
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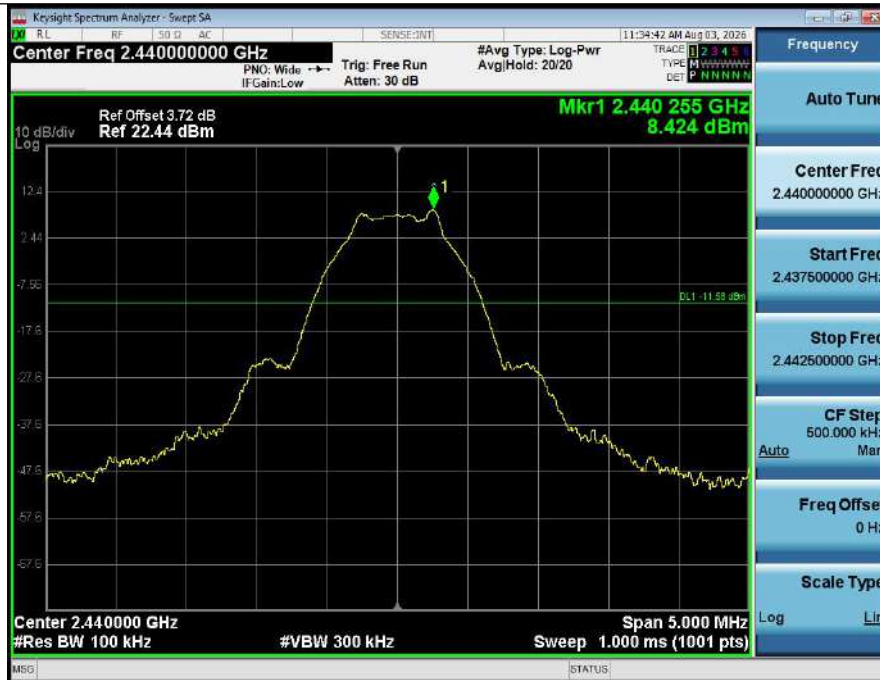
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	9.632	-39.127	-10.368	Pass
NVNT	ANT1	1Mbps	2440.00	8.424	-40.172	-11.576	Pass
NVNT	ANT1	1Mbps	2480.00	6.124	-44.707	-13.876	Pass
NVNT	ANT1	2Mbps	2402.00	2.484	-40.940	-17.516	Pass
NVNT	ANT1	2Mbps	2440.00	1.978	-40.711	-18.022	Pass
NVNT	ANT1	2Mbps	2480.00	5.017	-43.446	-14.983	Pass

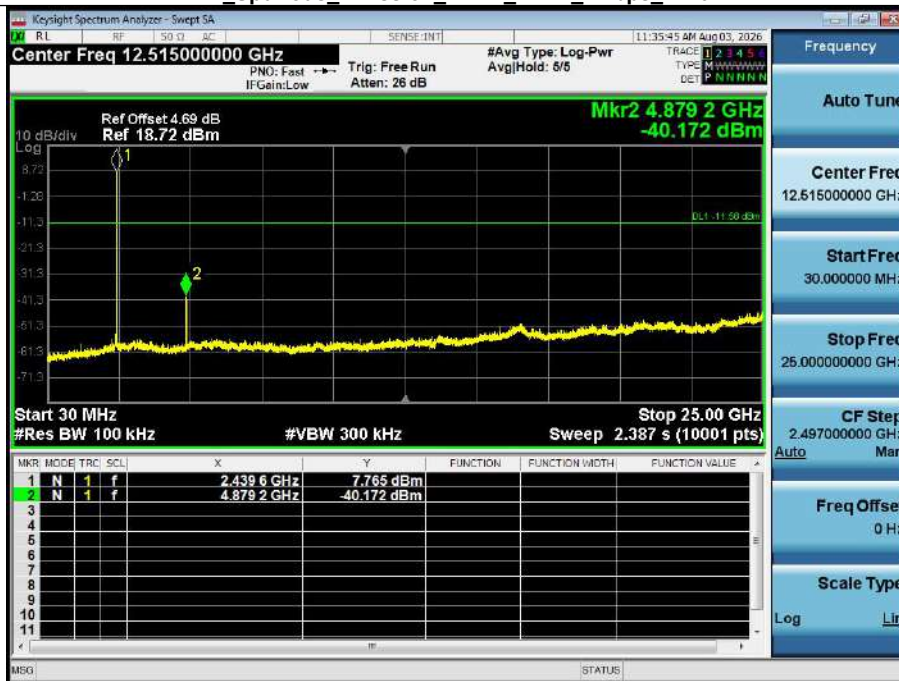
Note:The test diagram has integrated cable loss to Offset Settings. The cable loss is compensated in the test data.



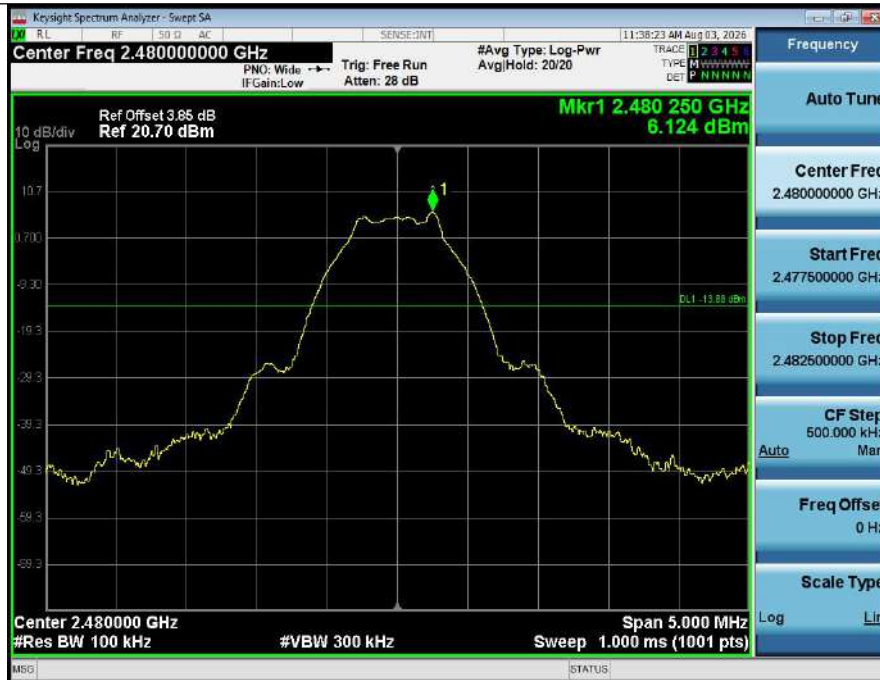
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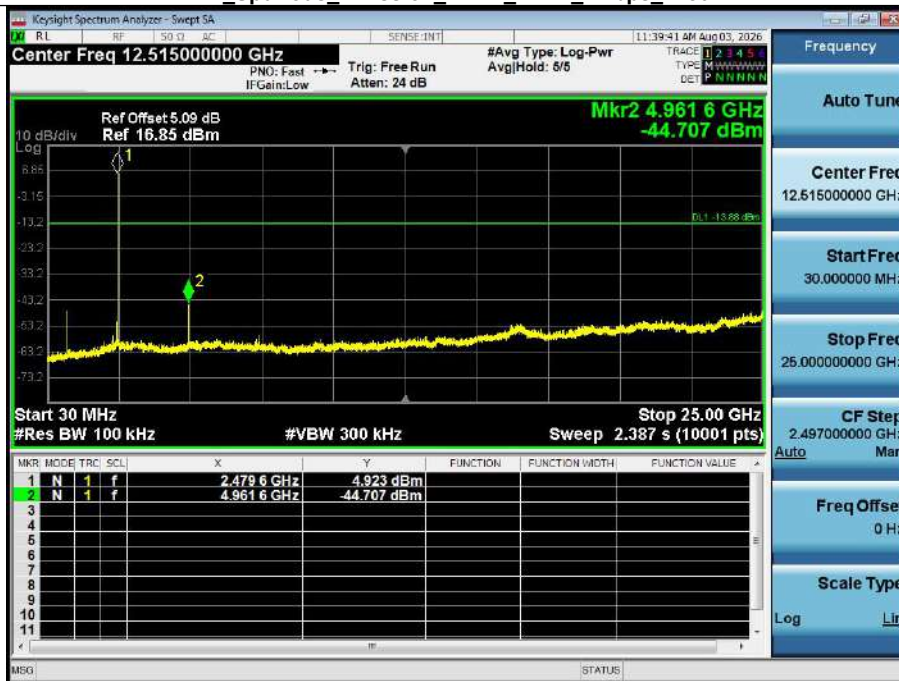
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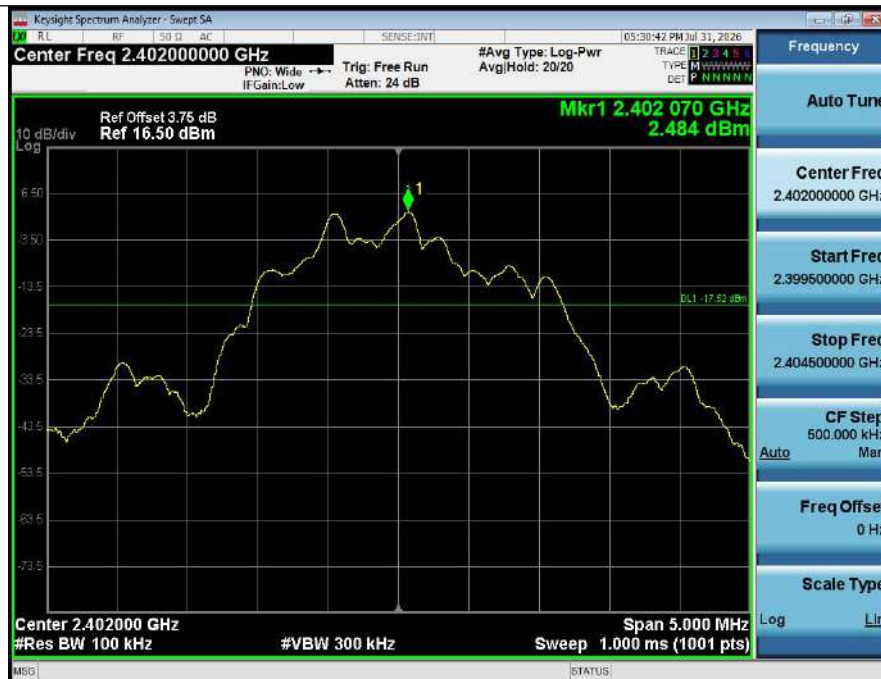
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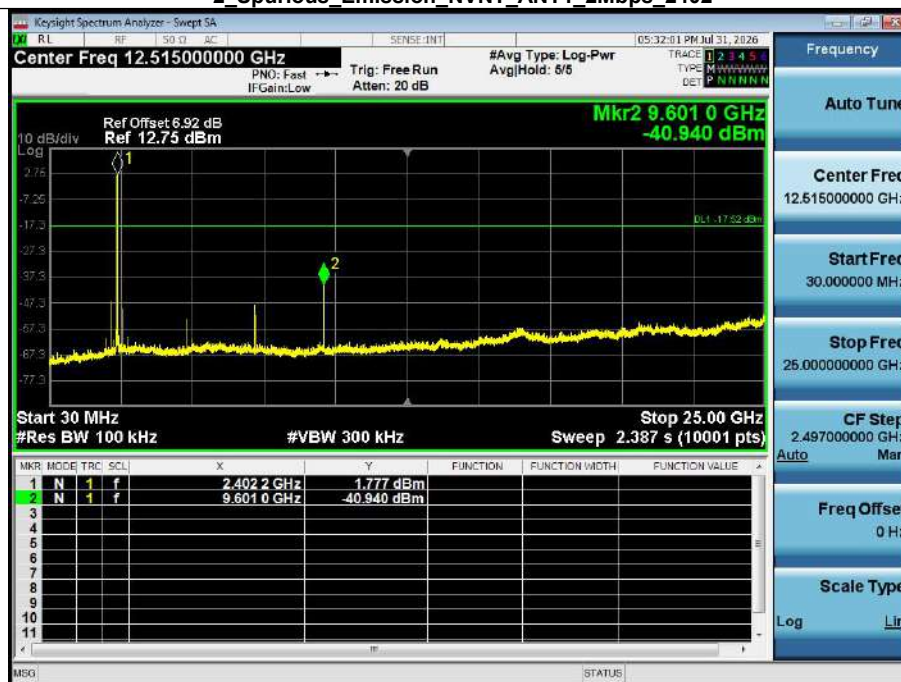
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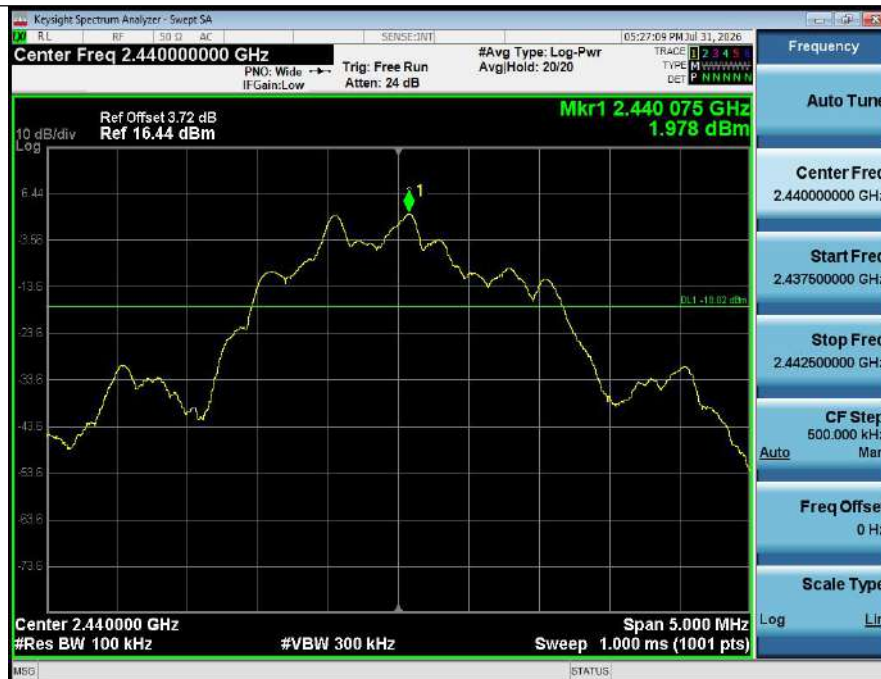
1_Reference_Level_NVNT_ANT1_2Mbps_2402



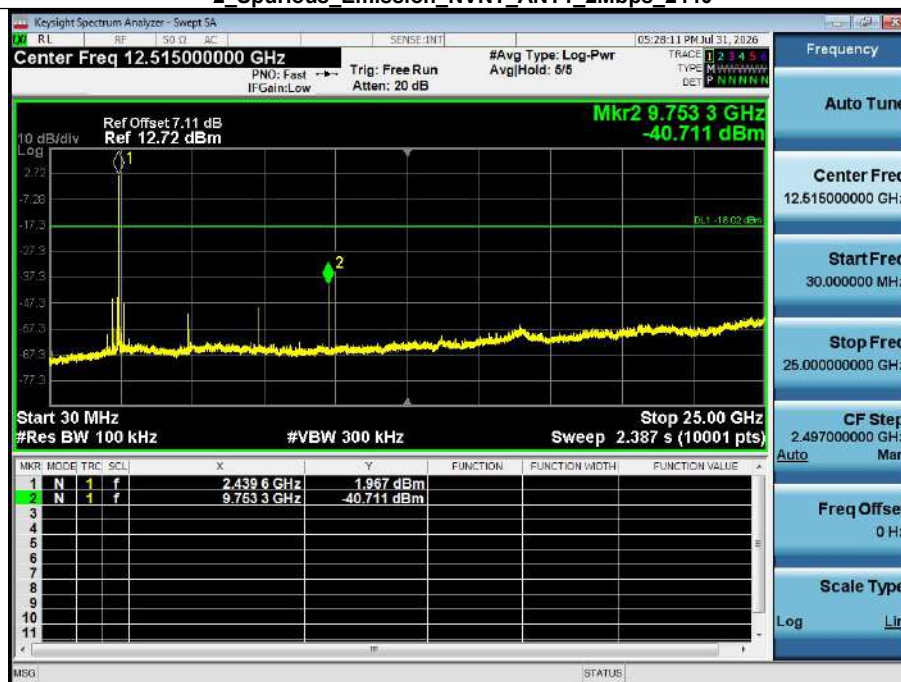
2_Spurious_Emission_NVNT_ANT1_2Mbps_2402



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

