

Appendix

2.4G_WIFI Test Data for BTEK240507001A



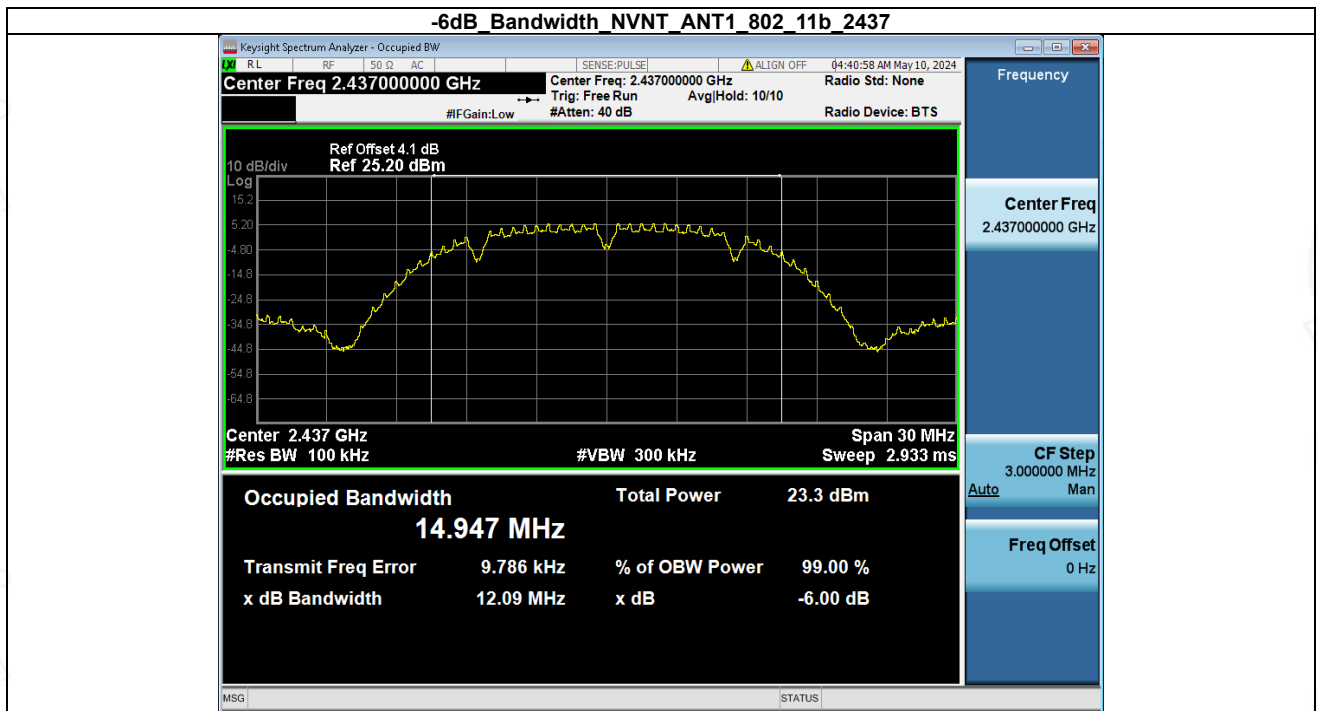
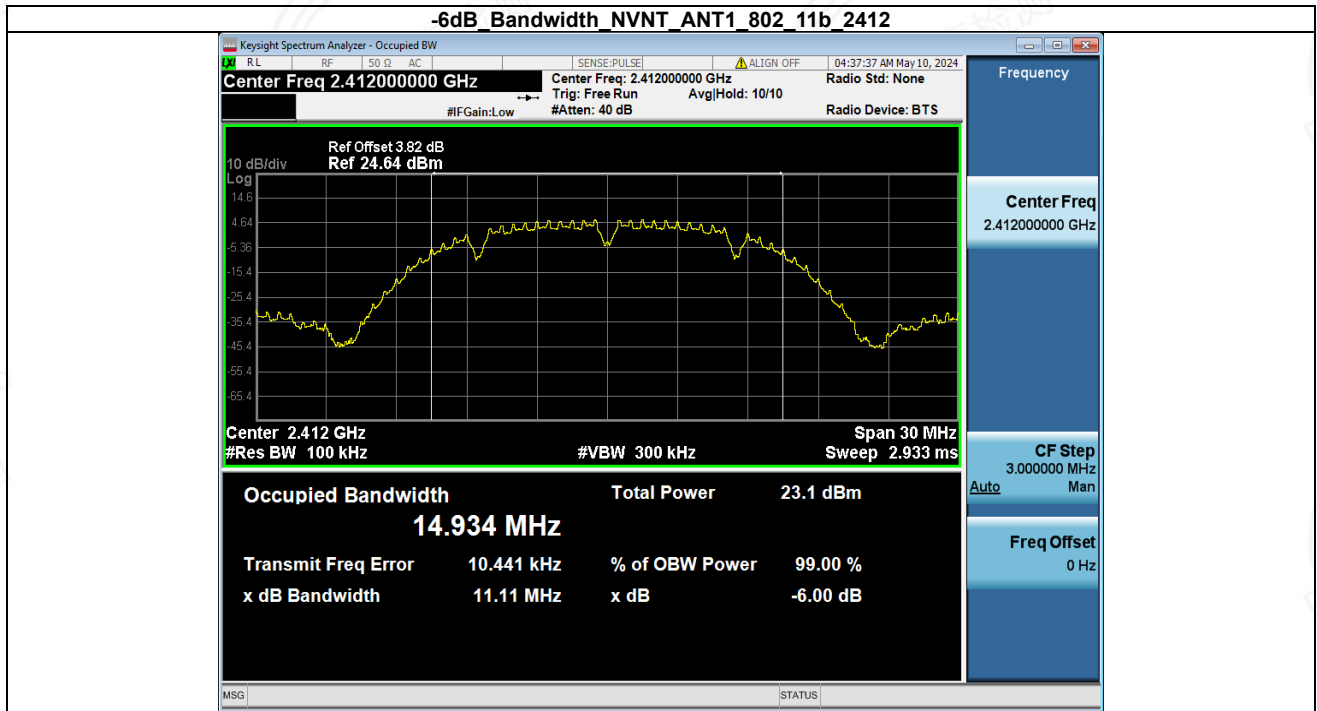
Table of Contents

1. -6dB Bandwidth.....	3
2. 99% Occupied Bandwidth	8
3. Duty Cycle.....	13
4. MAX. Output Power	18
5. Power Spectral Density.....	23
6. Bandedge.....	28
7. Spurious Emission.....	34



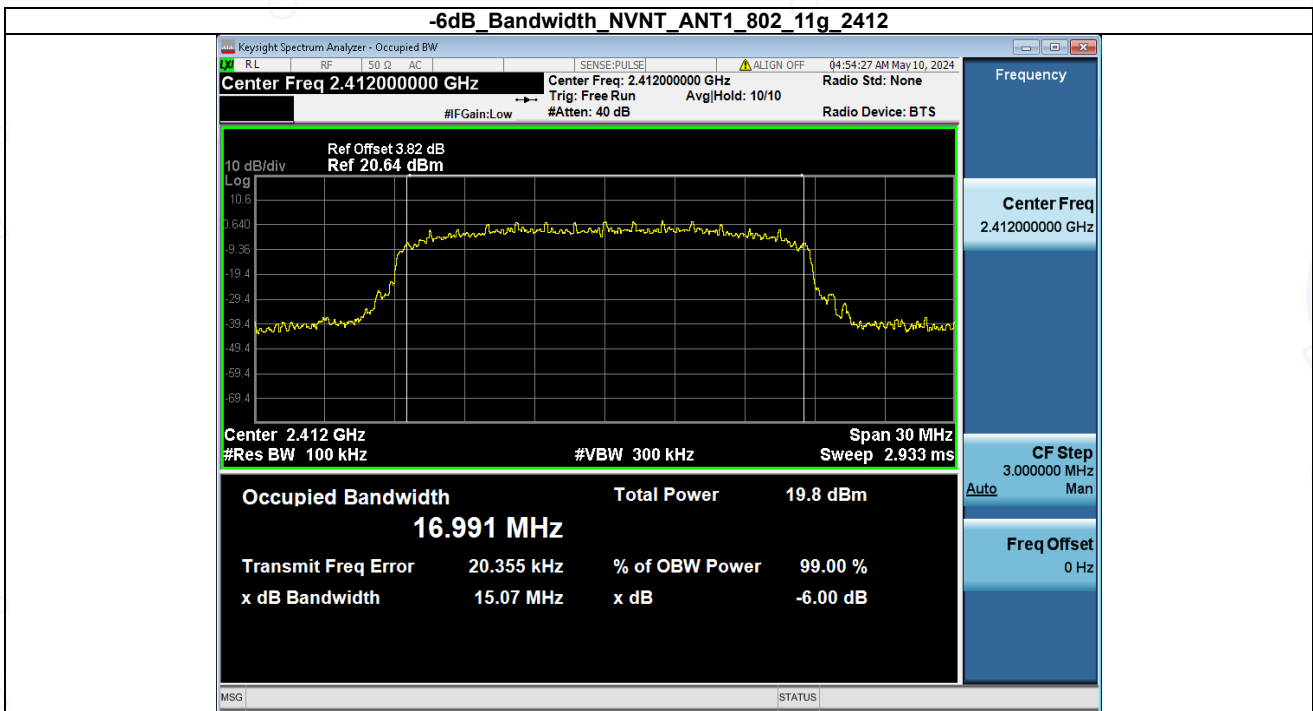
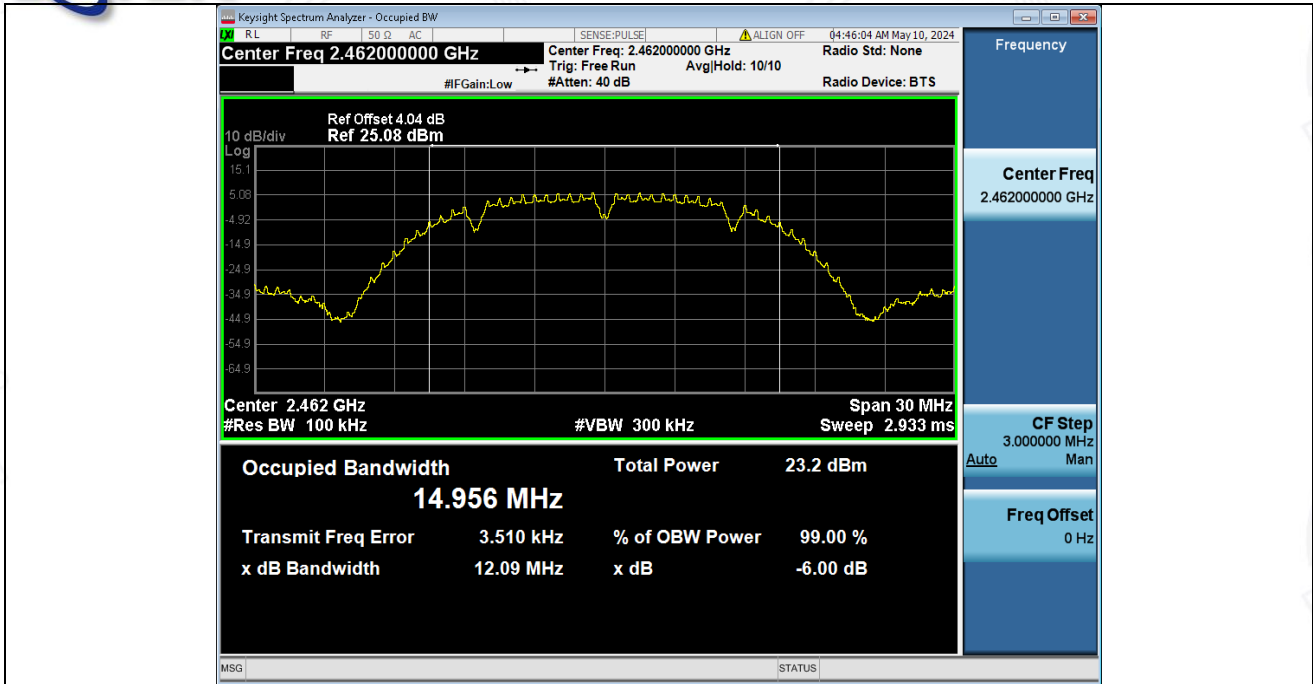
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	11.11	500	Pass
NVNT	ANT1	802.11b	2437.00	12.09	500	Pass
NVNT	ANT1	802.11b	2462.00	12.09	500	Pass
NVNT	ANT1	802.11g	2412.00	15.07	500	Pass
NVNT	ANT1	802.11g	2437.00	15.15	500	Pass
NVNT	ANT1	802.11g	2462.00	15.15	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	12.58	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	11.32	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	11.35	500	Pass



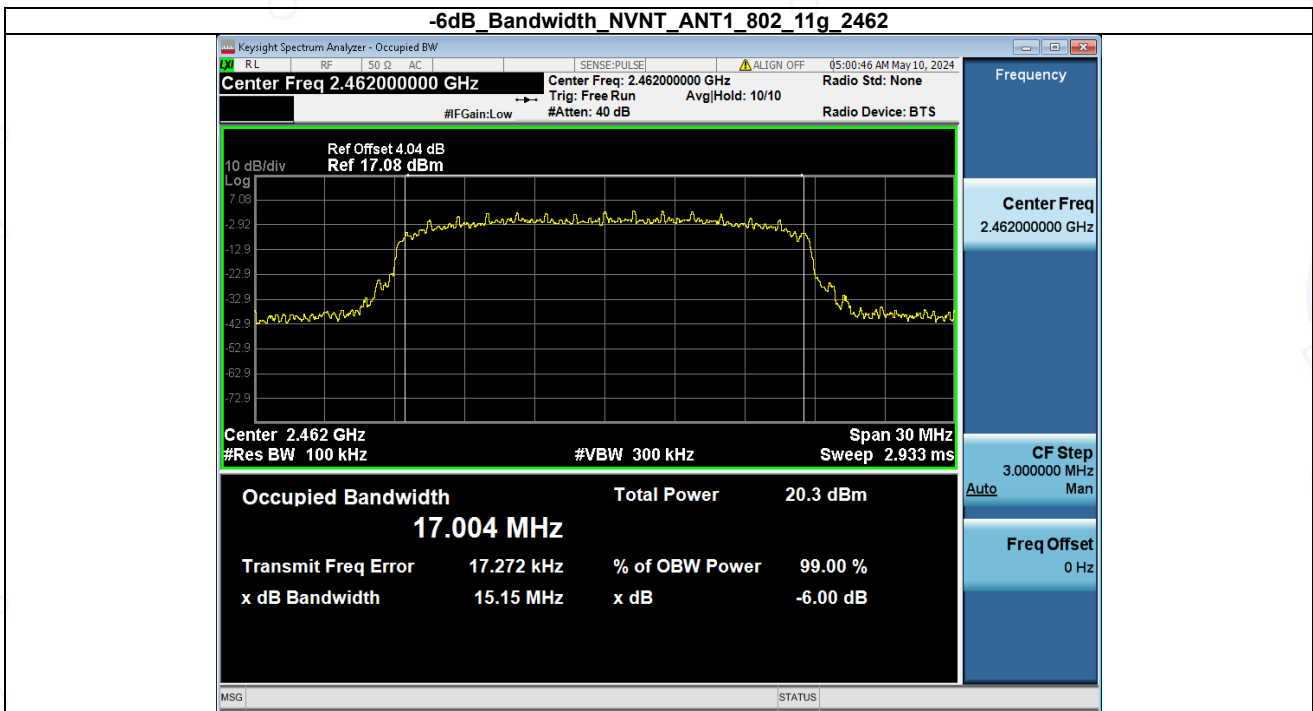
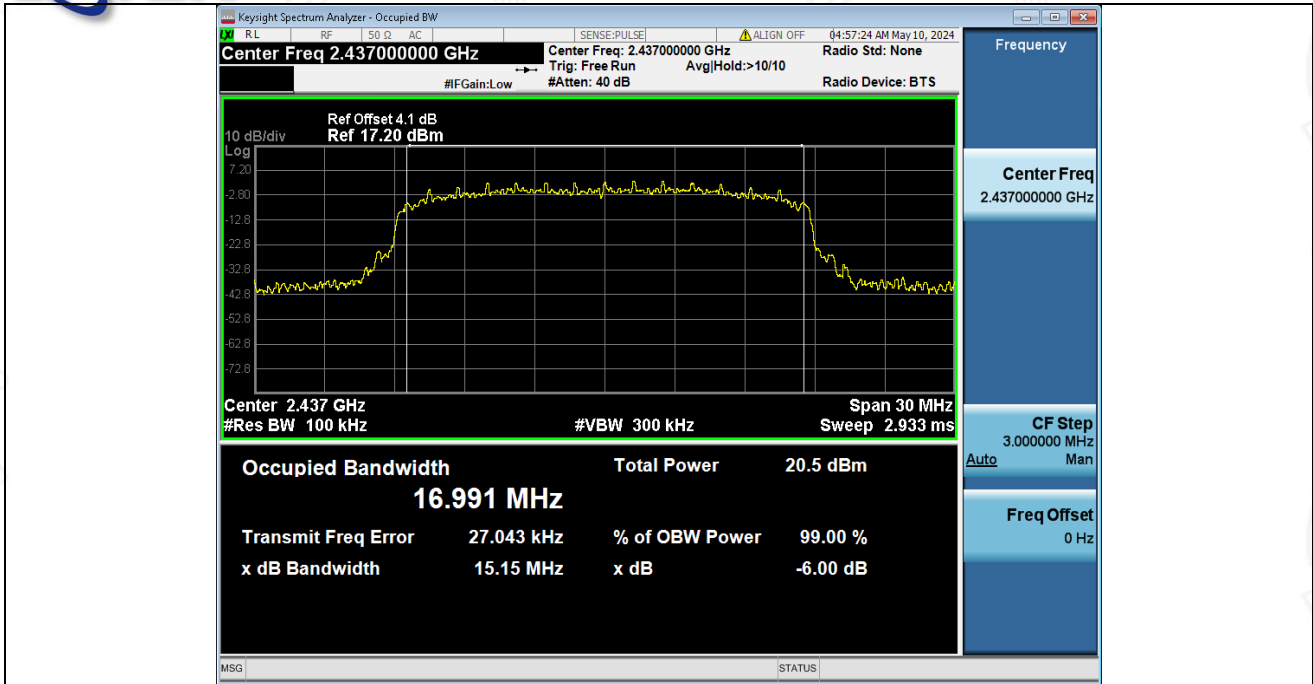
-6dB Bandwidth_NVNT_ANT1_802_11b_2462





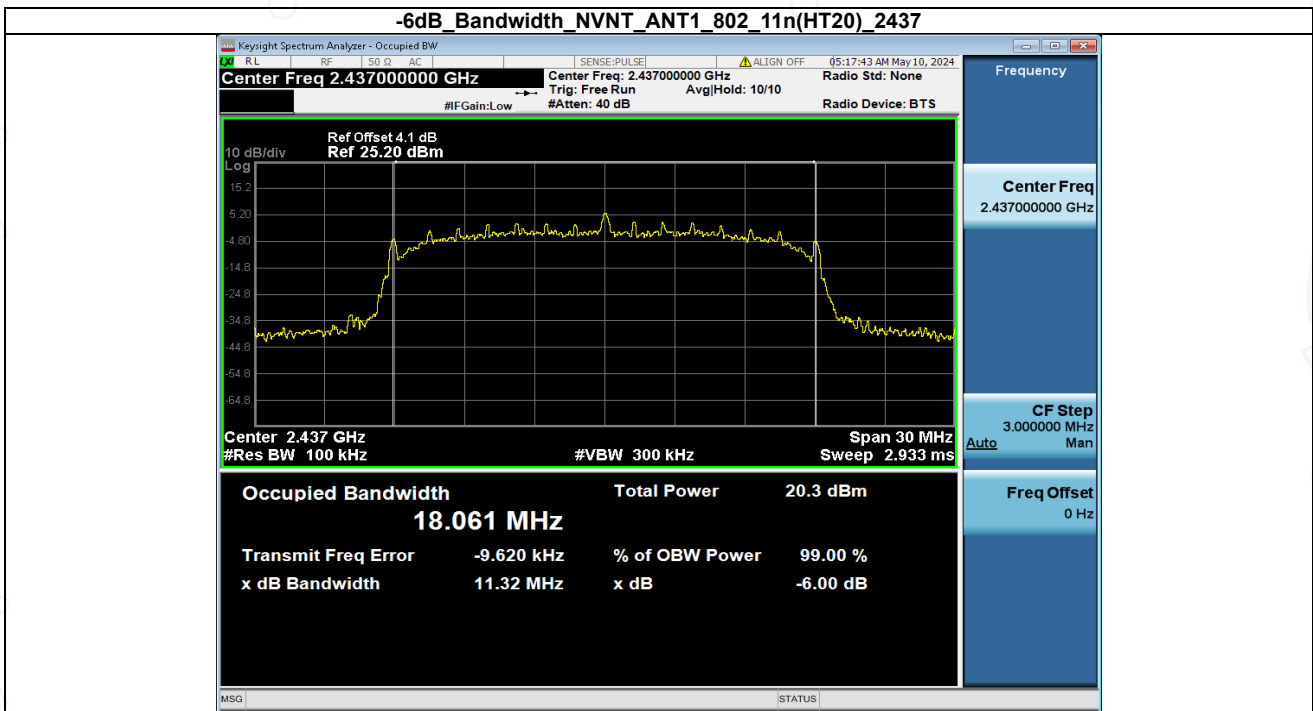
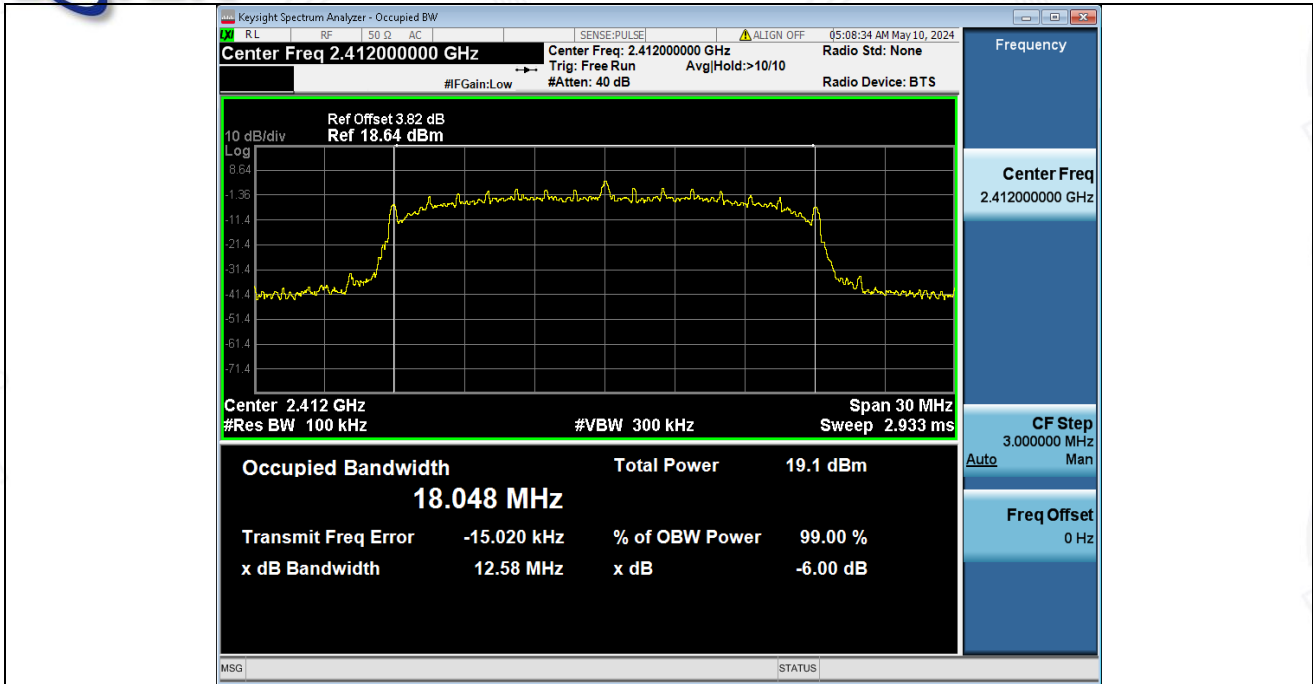
-6dB Bandwidth_NVNT_ANT1_802_11g_2437





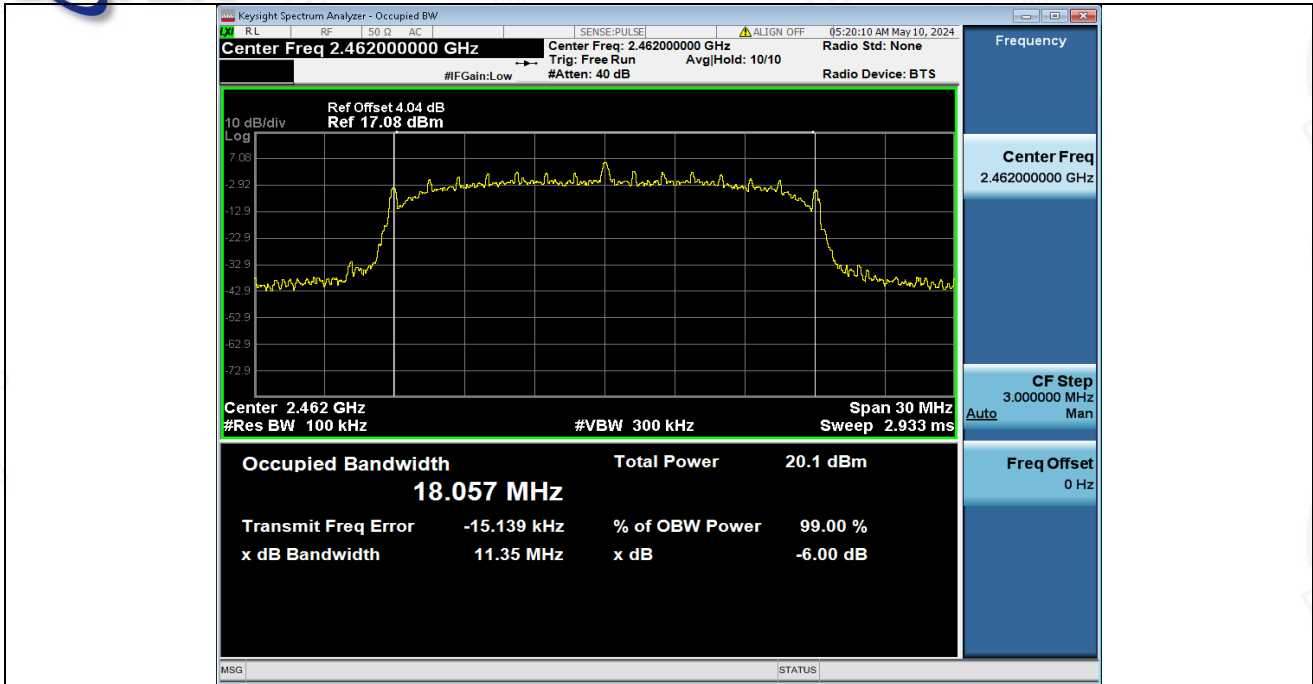
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





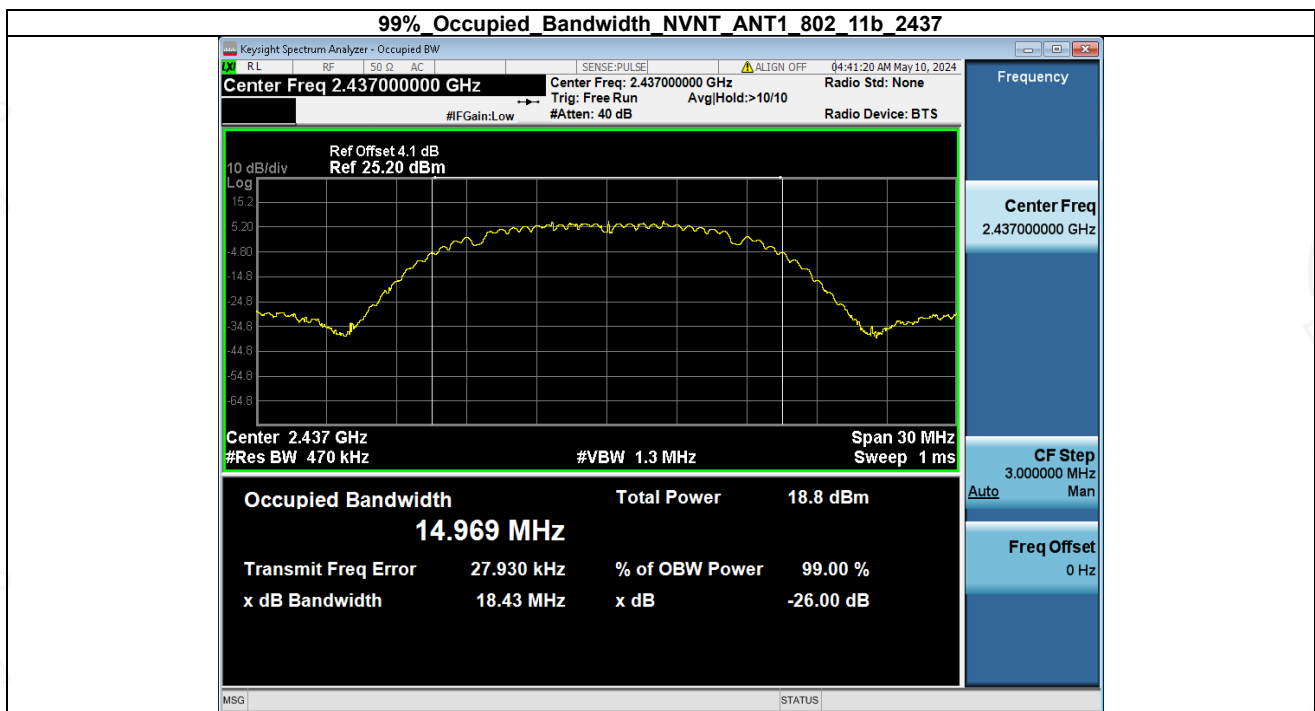
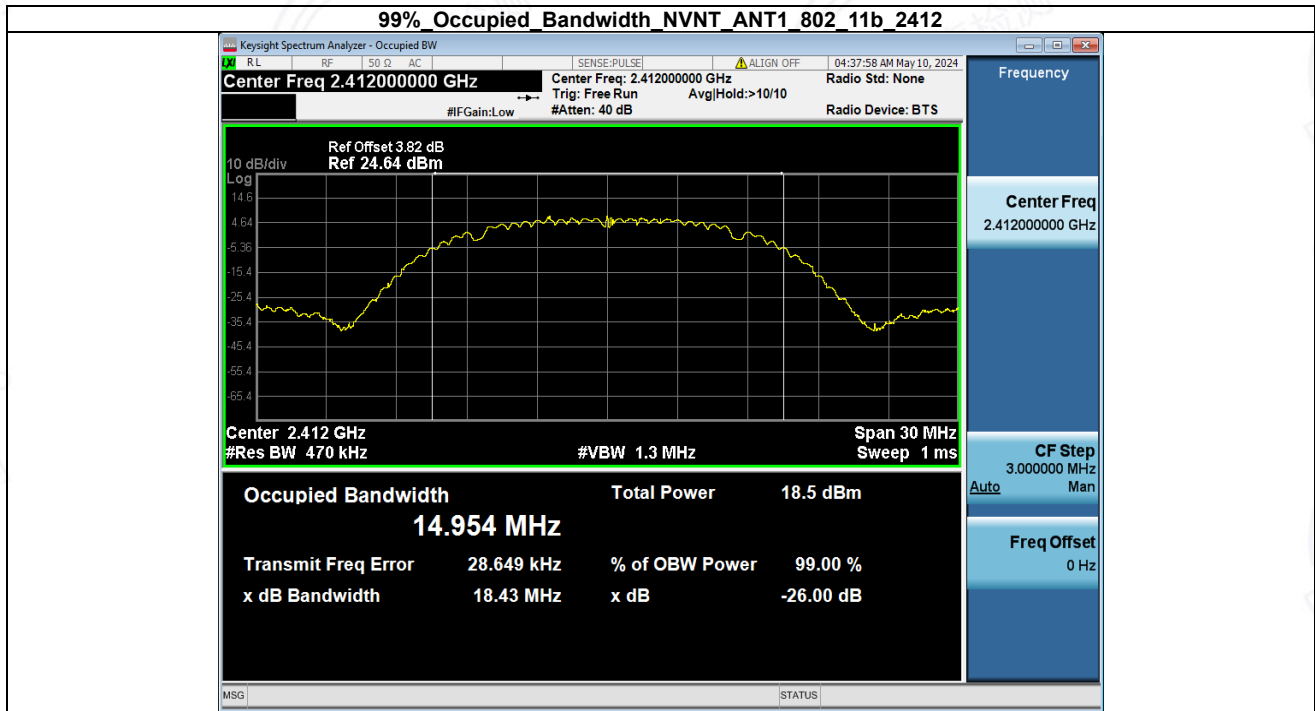
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.954
NVNT	ANT1	802.11b	2437.00	14.969
NVNT	ANT1	802.11b	2462.00	14.987
NVNT	ANT1	802.11g	2412.00	17.378
NVNT	ANT1	802.11g	2437.00	17.365
NVNT	ANT1	802.11g	2462.00	17.356
NVNT	ANT1	802.11n(HT20)	2412.00	18.208
NVNT	ANT1	802.11n(HT20)	2437.00	18.234
NVNT	ANT1	802.11n(HT20)	2462.00	18.252



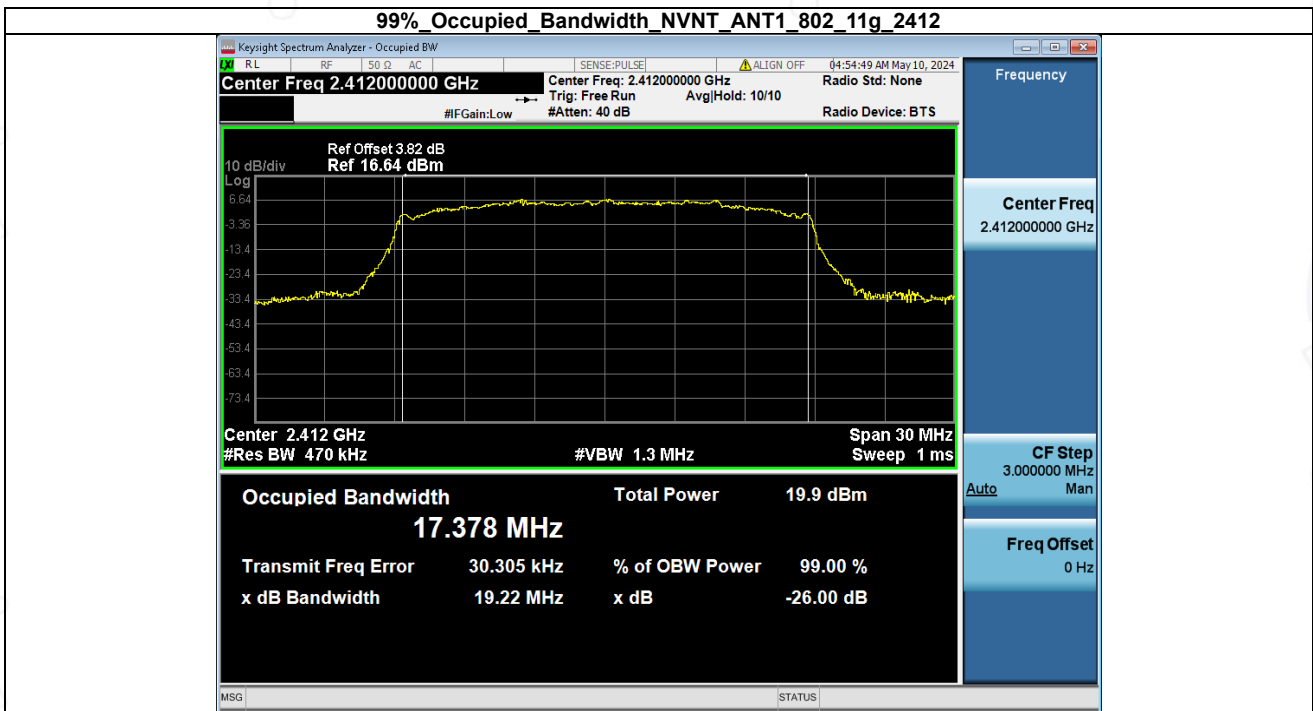
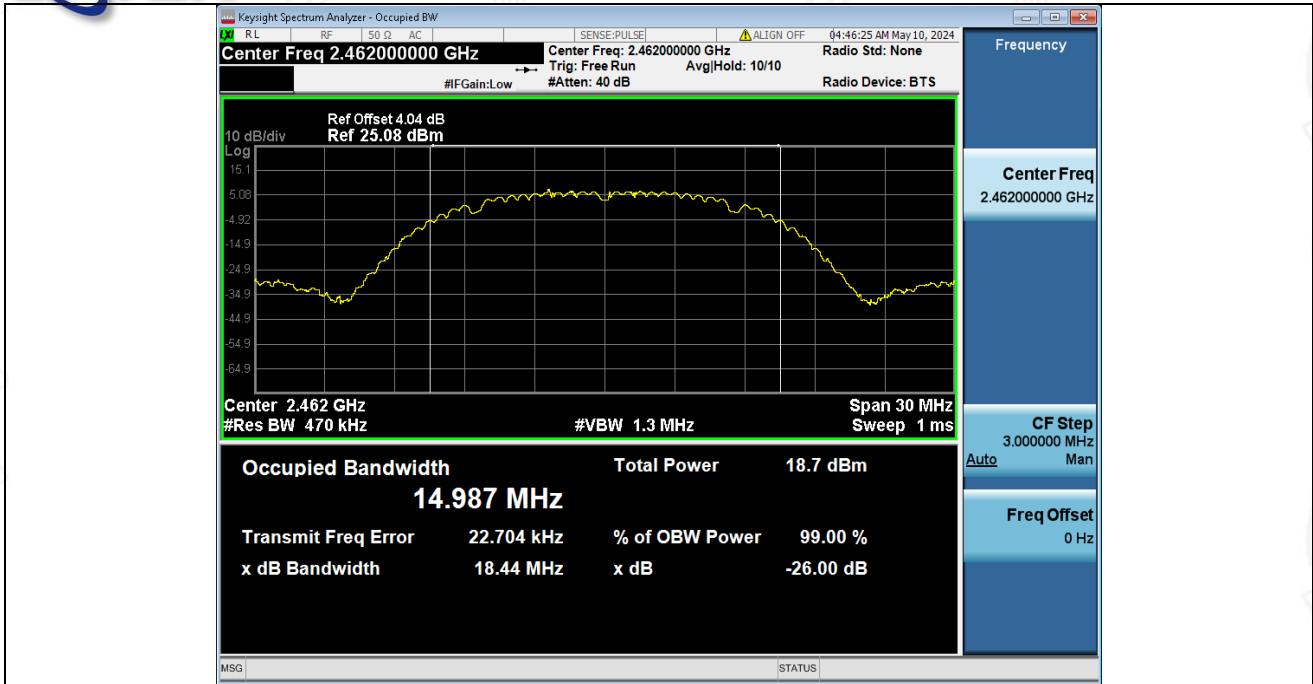
99% Occupied Bandwidth_NVNT_ANT1_802_11b_2462

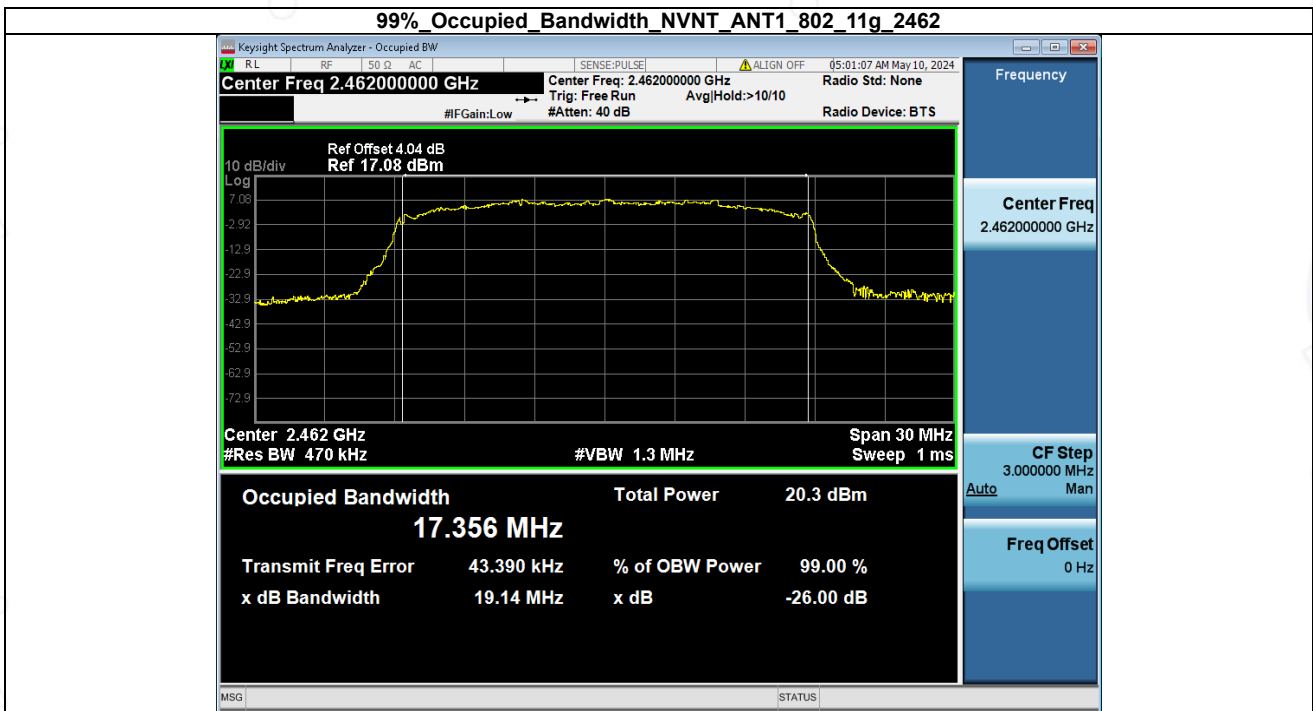
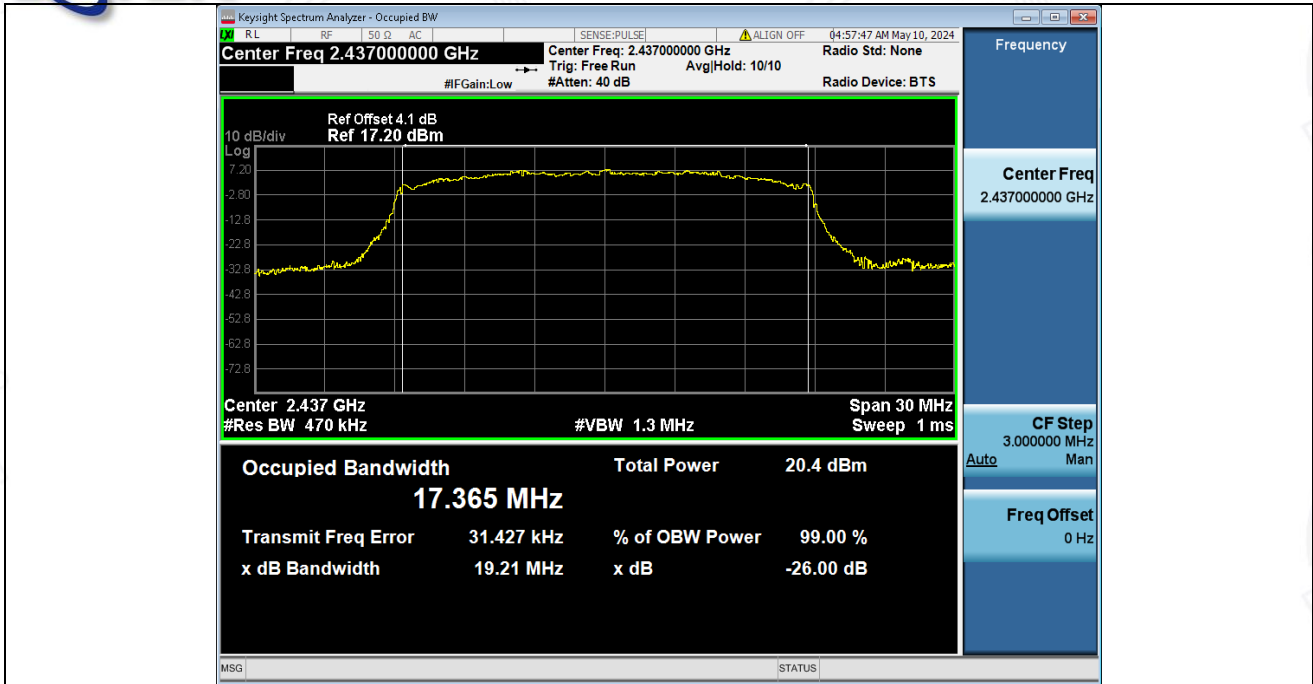
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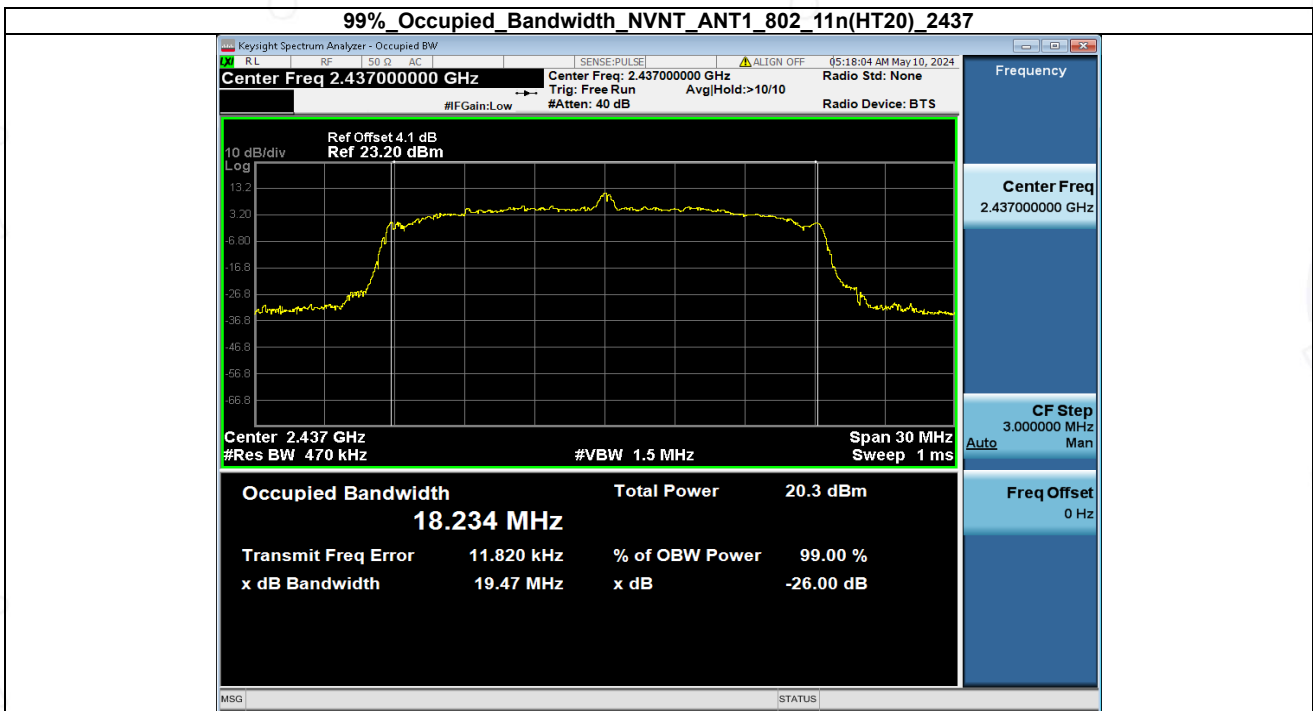
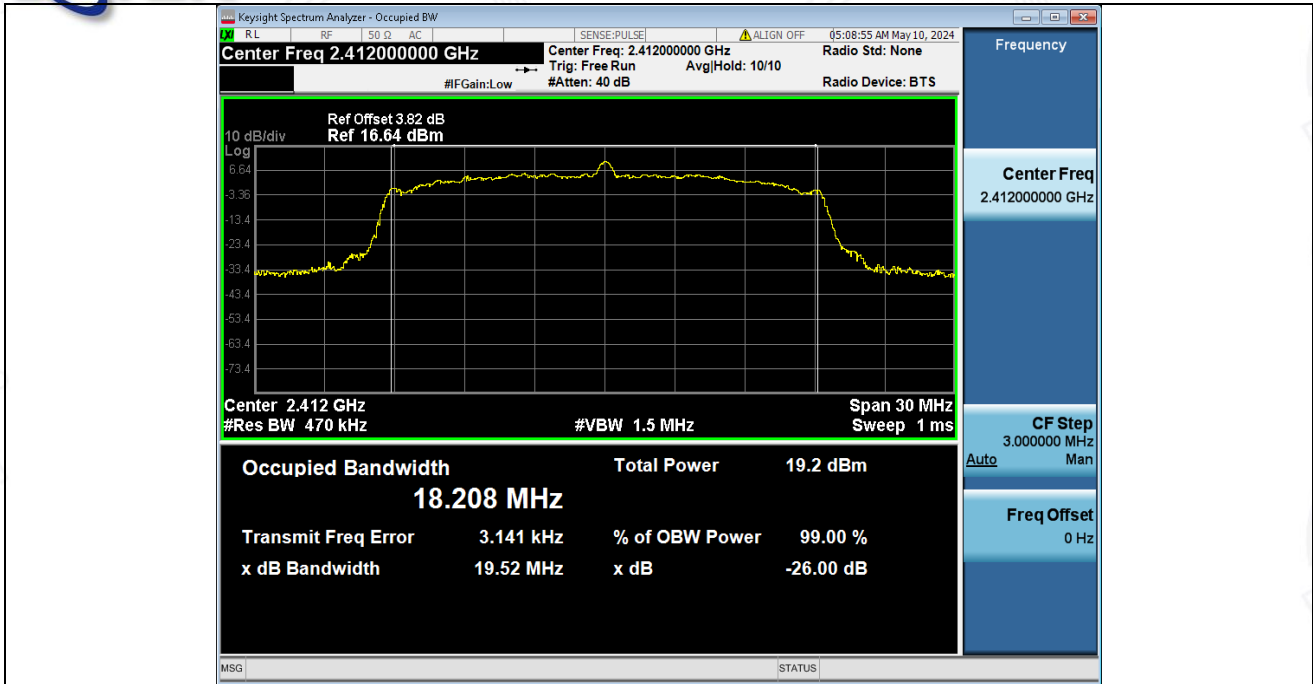






99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412





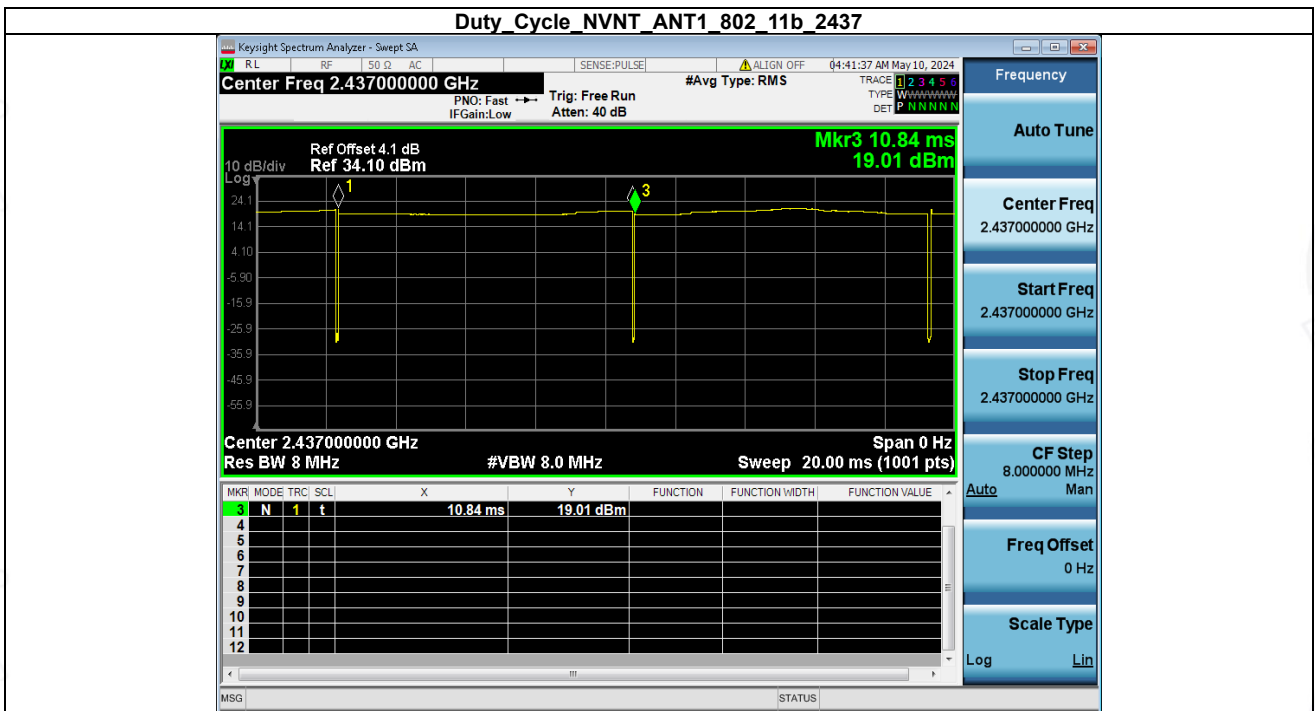
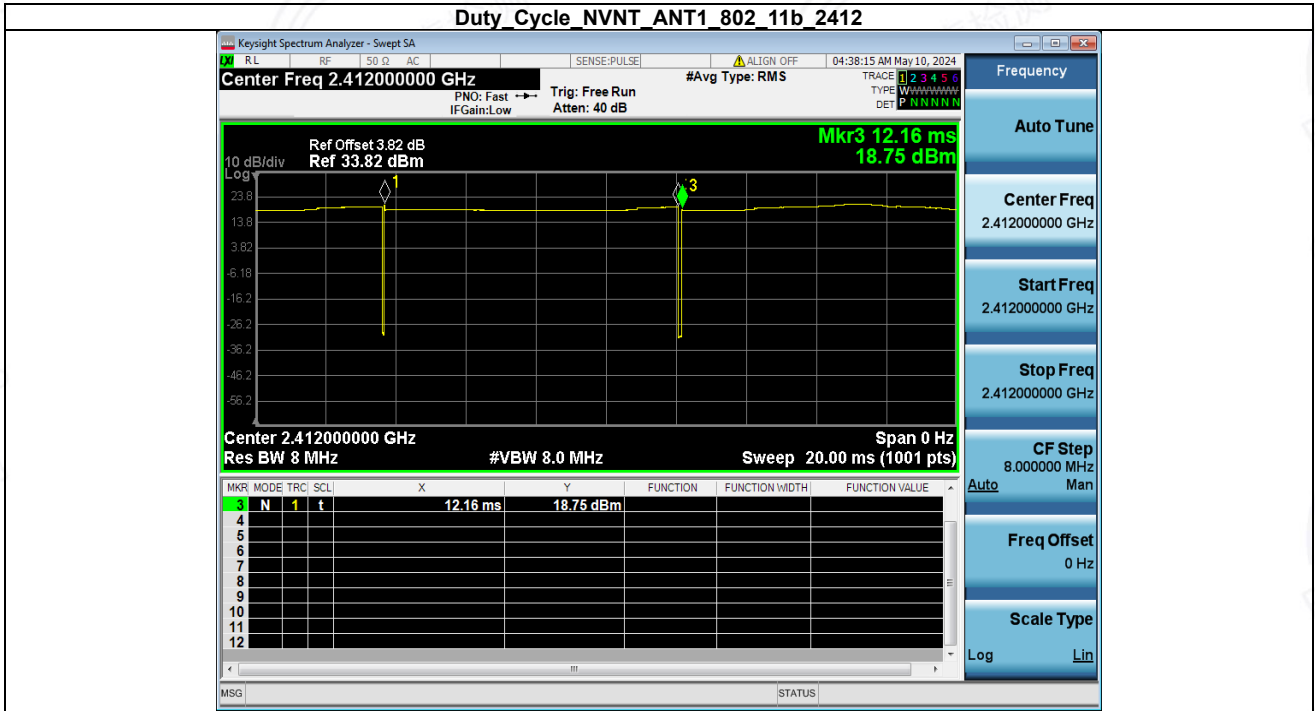
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





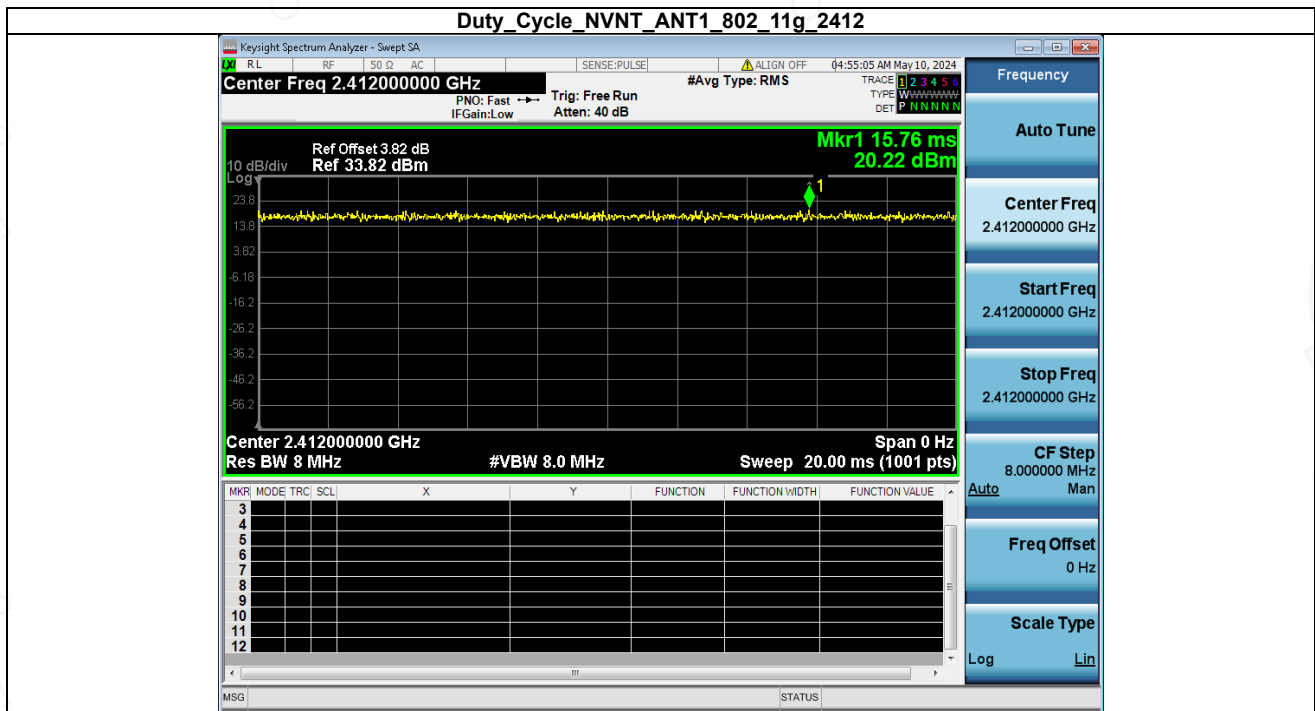
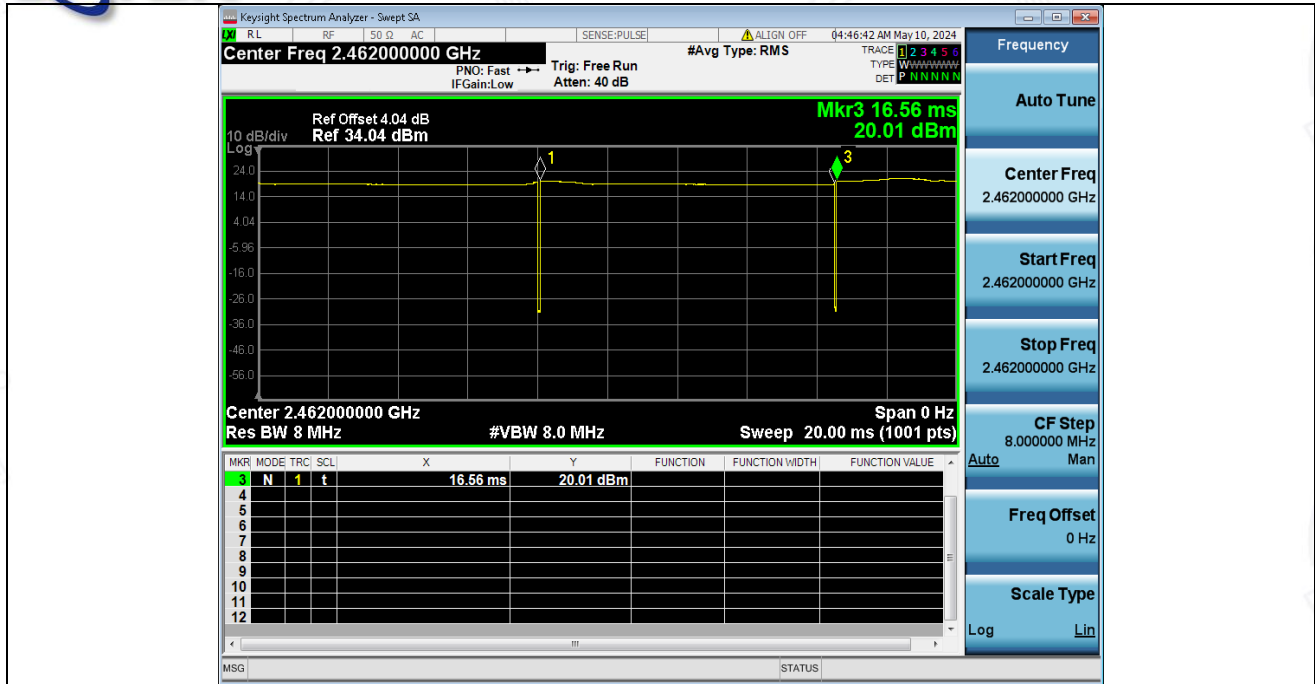
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.06	0.00
NVNT	ANT1	802.11b	2437.00	99.29	0.00
NVNT	ANT1	802.11b	2462.00	99.29	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00



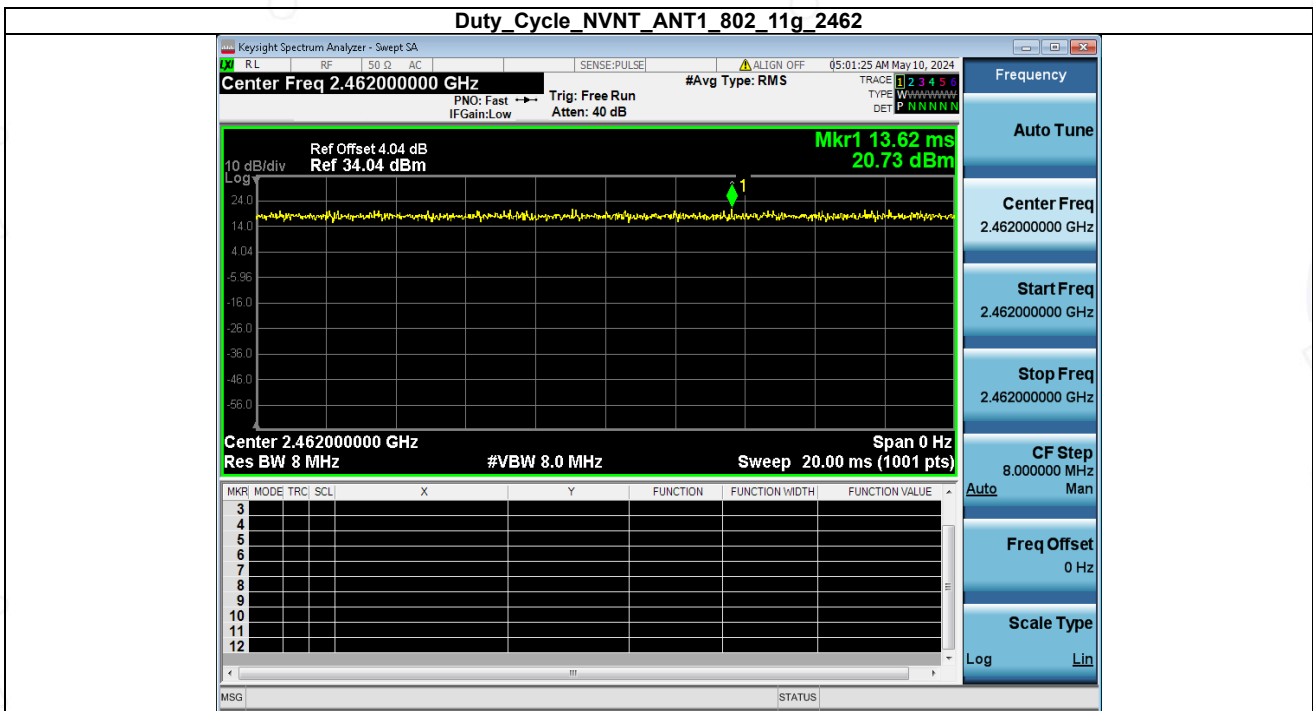
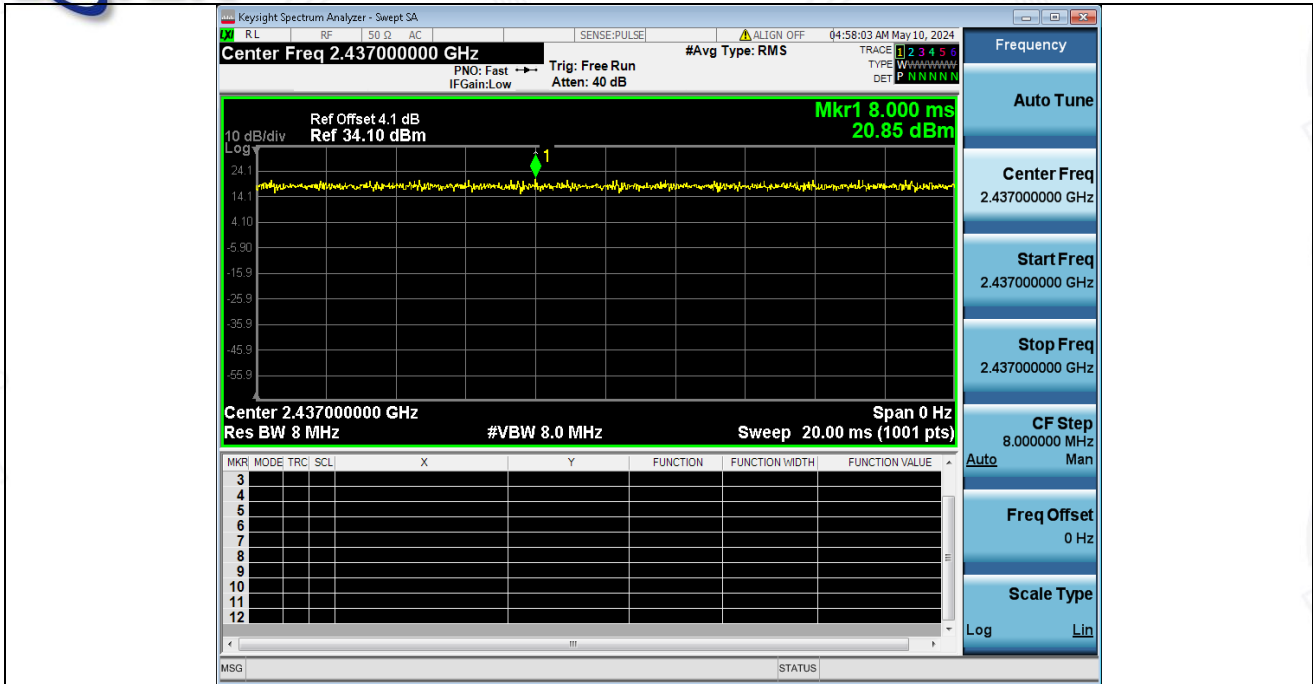
Duty Cycle NVNT ANT1 802_11b 2462





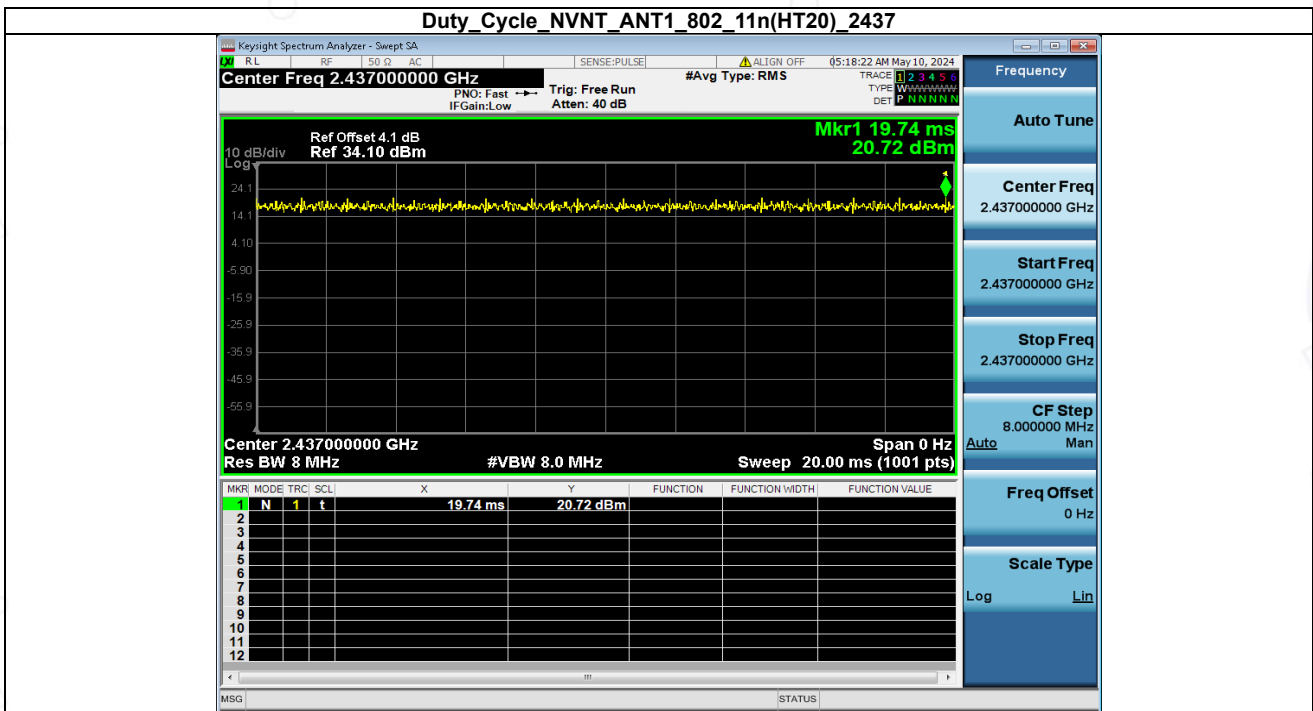
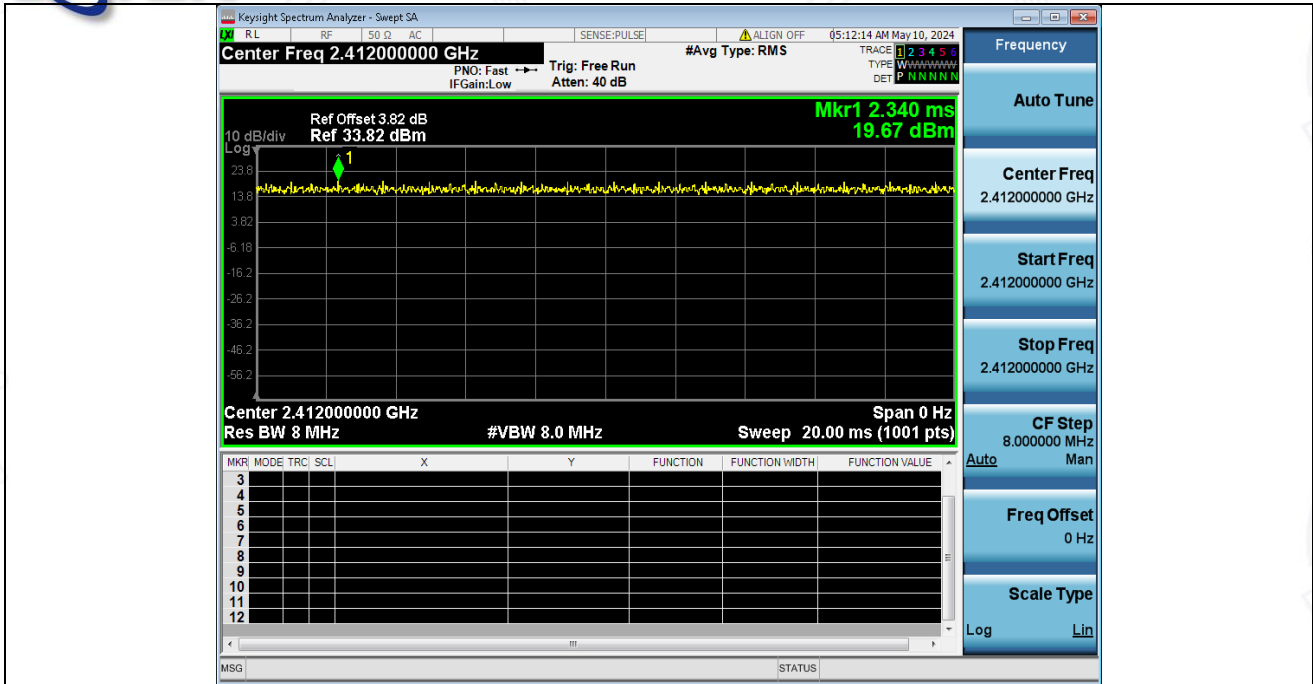
Duty Cycle NVNT_ANT1_802_11g_2437





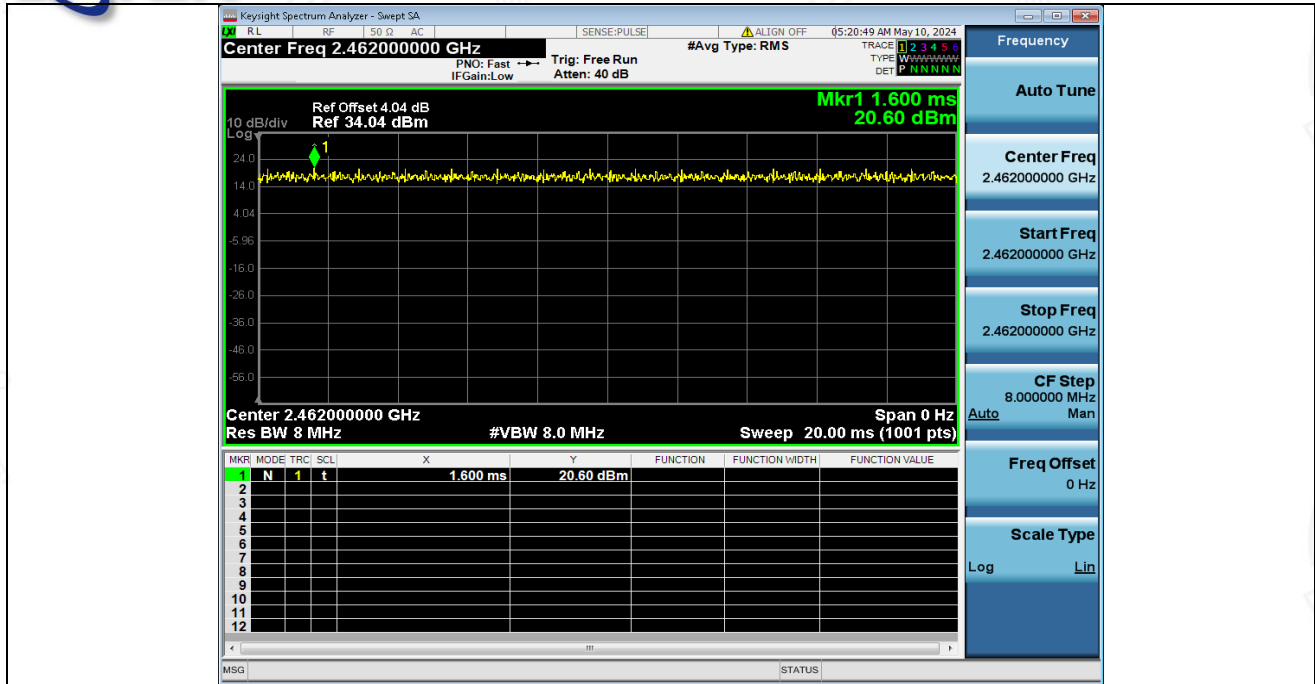
Duty Cycle_NVNT_ANT1_802_11n(HT20)_2412





Duty Cycle_NVNT_ANT1_802_11n(HT20)_2462

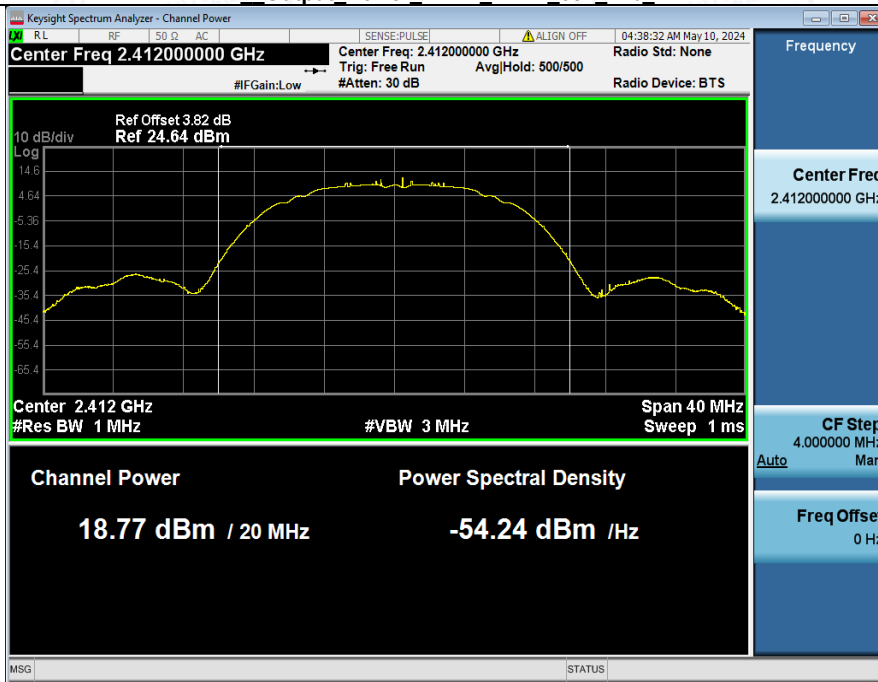




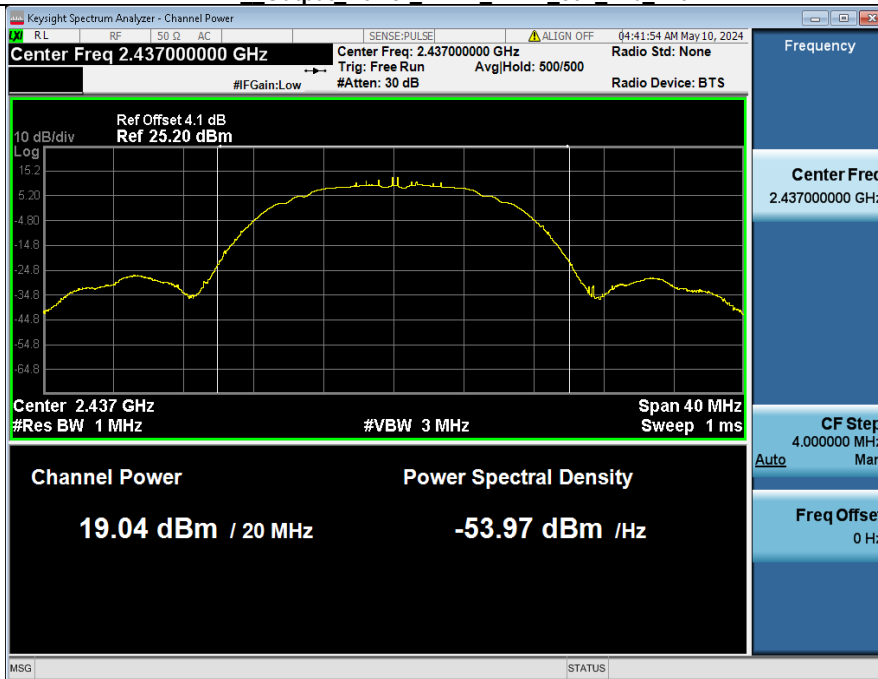
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.77	N/A	18.77	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	19.04	N/A	19.04	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	19.03	N/A	19.03	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	20.63	N/A	20.63	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	21.20	N/A	21.20	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	21.12	N/A	21.12	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	19.83	N/A	19.83	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	21.02	N/A	21.02	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	20.85	N/A	20.85	30	Pass

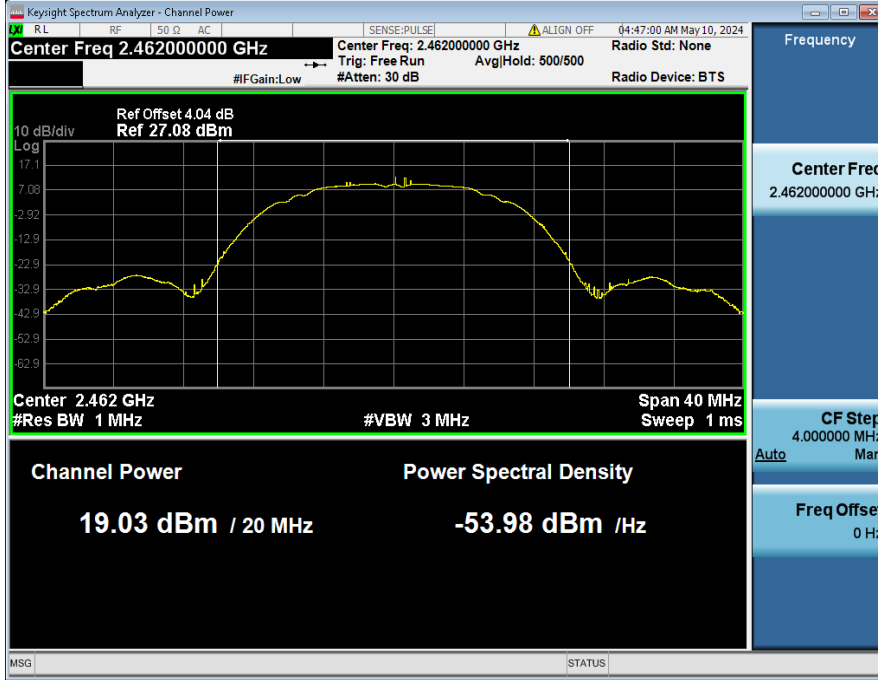
MAX Output Power NVNT ANT1 802 11b 2412



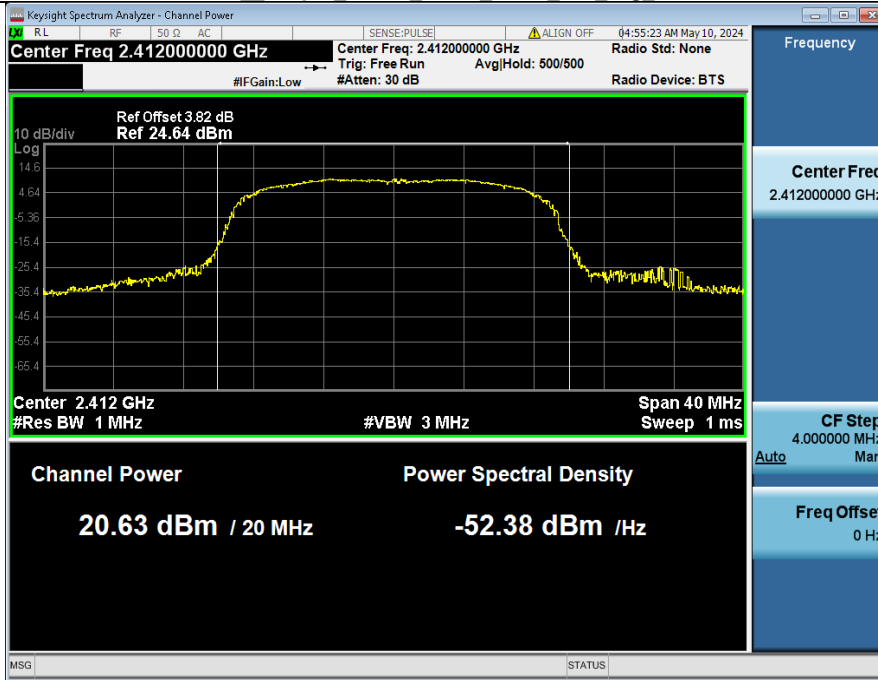
MAX Output Power NVNT ANT1 802 11b 2437



MAX Output Power NVNT_ANT1_802_11b_2462

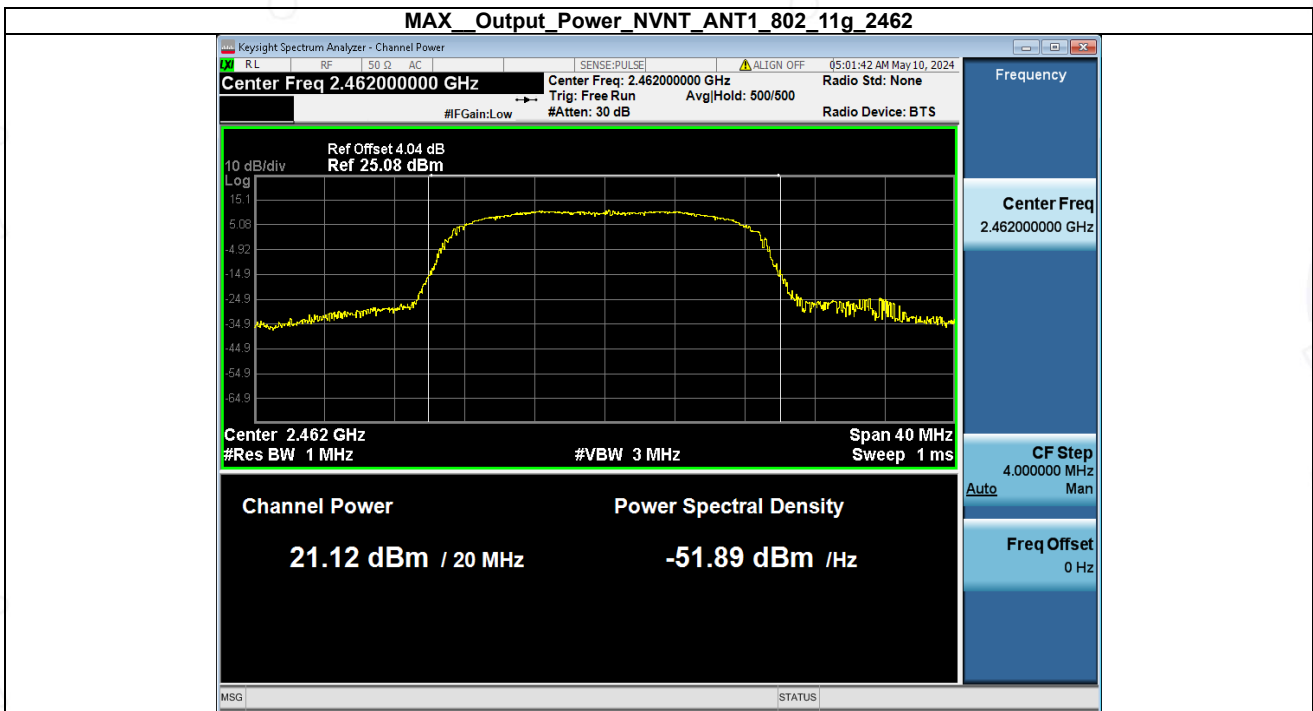
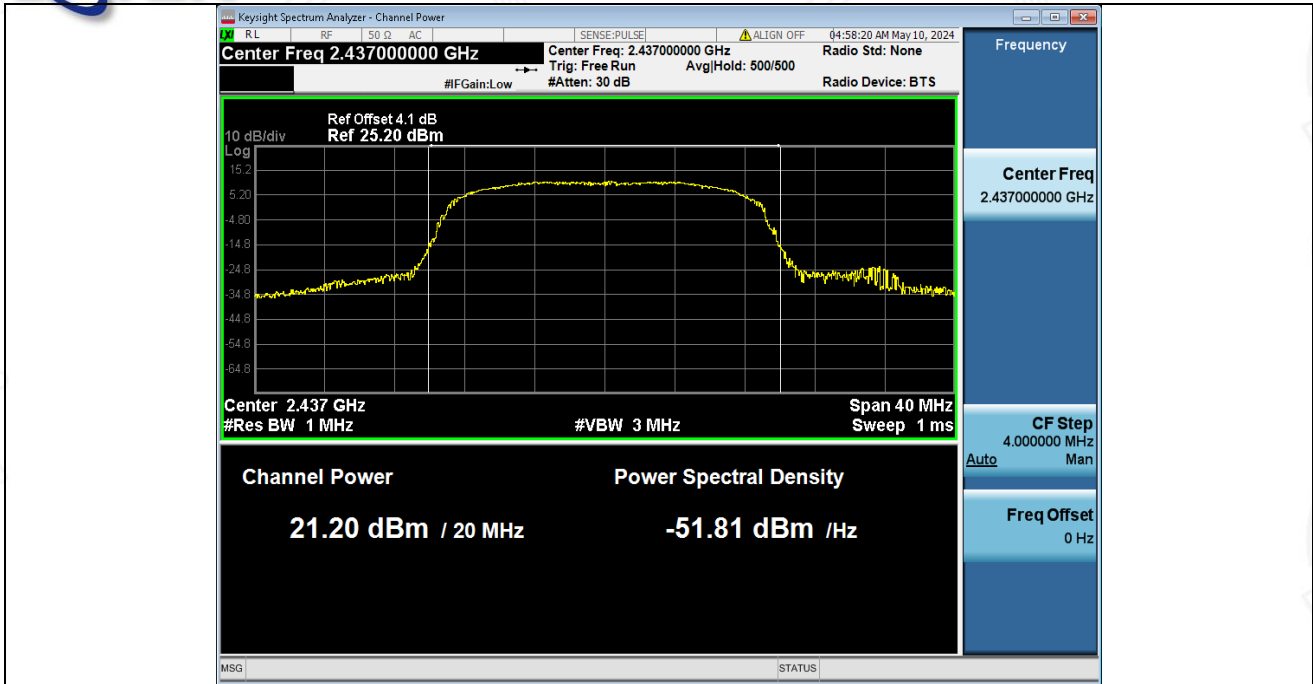


MAX Output Power NVNT_ANT1_802_11g_2412



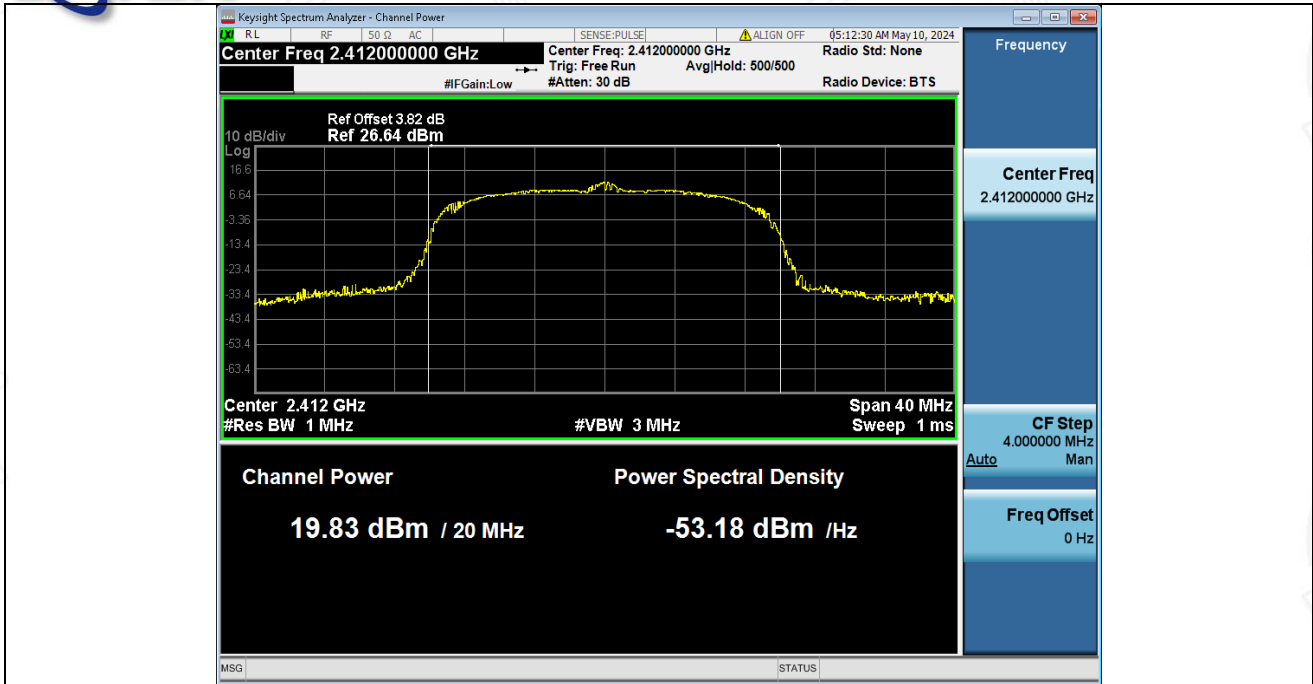
MAX Output Power NVNT_ANT1_802_11g_2437





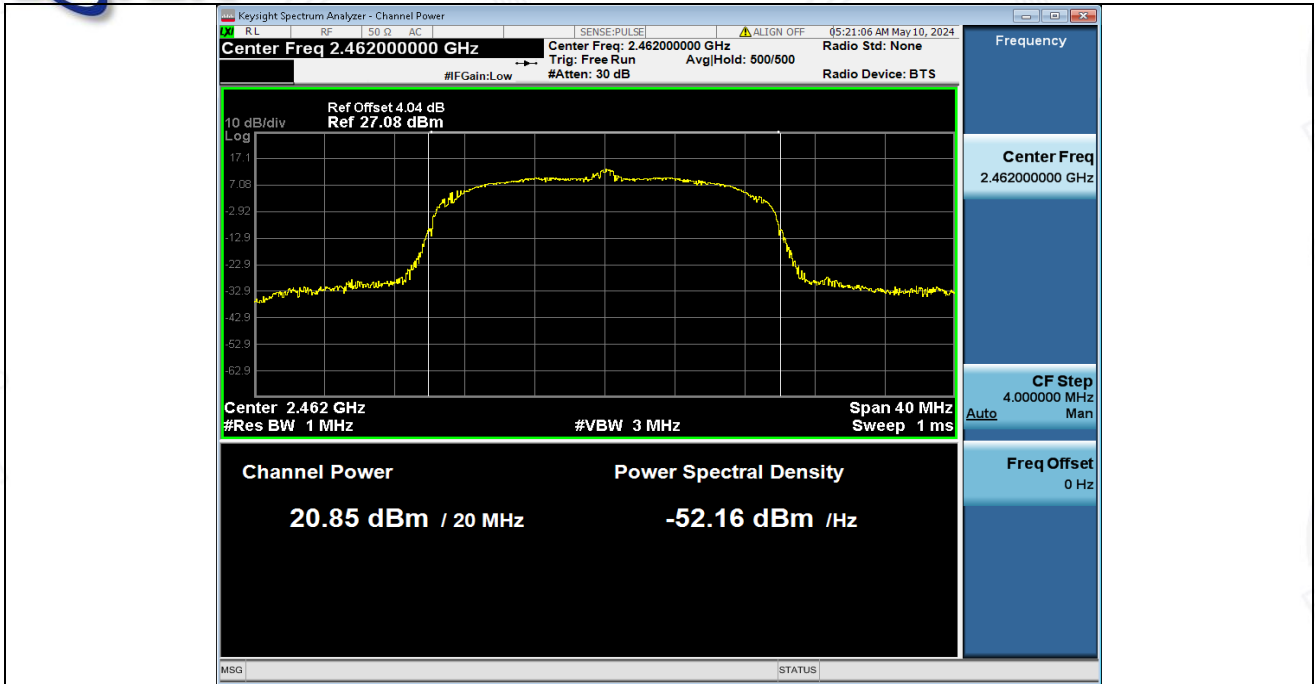
MAX Output Power_NVNT_ANT1_802_11n(HT20)_2412





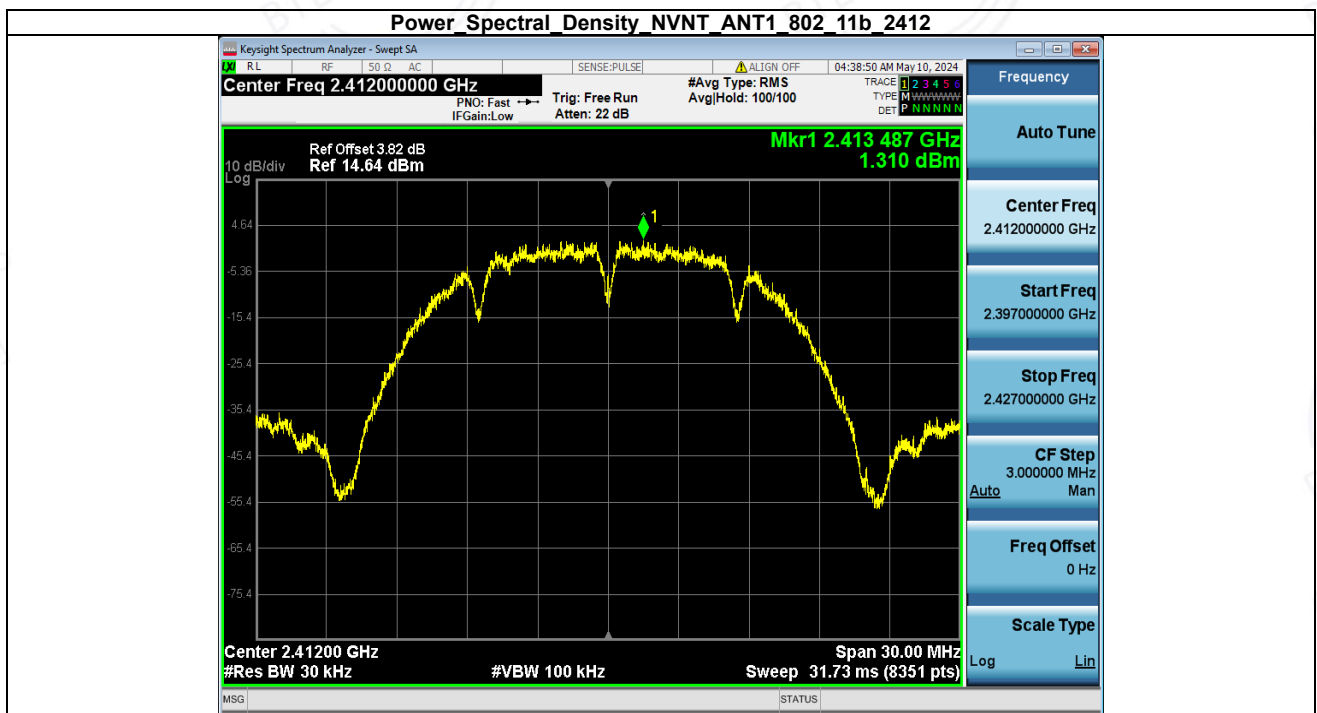
MAX Output Power_NVNT_ANT1_802_11n(HT20)_2462





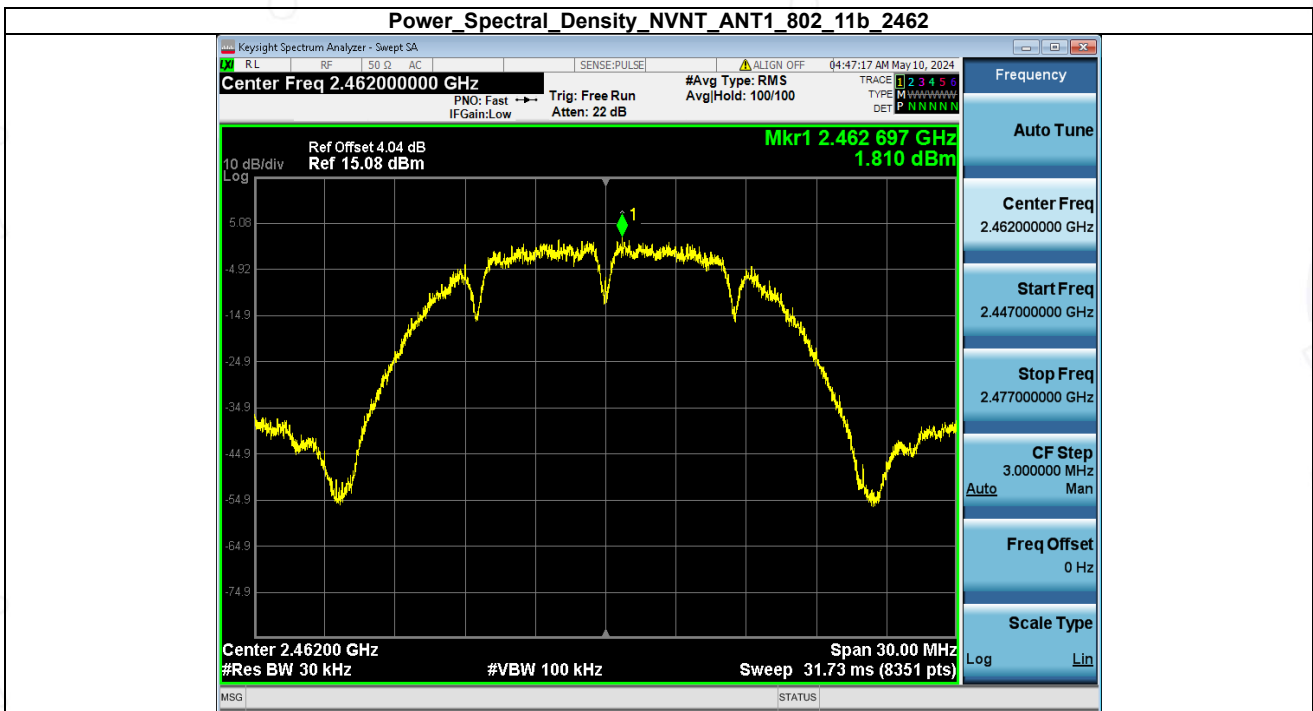
5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.31	N/A	-10.00	-8.69	8	Pass
NVNT	ANT1	802.11b	2437.00	1.49	N/A	-10.00	-8.51	8	Pass
NVNT	ANT1	802.11b	2462.00	1.81	N/A	-10.00	-8.19	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.39	N/A	-10.00	-12.39	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.06	N/A	-10.00	-12.05	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.98	N/A	-10.00	-11.98	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-2.89	N/A	-10.00	-12.89	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.49	N/A	-10.00	-12.49	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.57	N/A	-10.00	-12.57	8	Pass



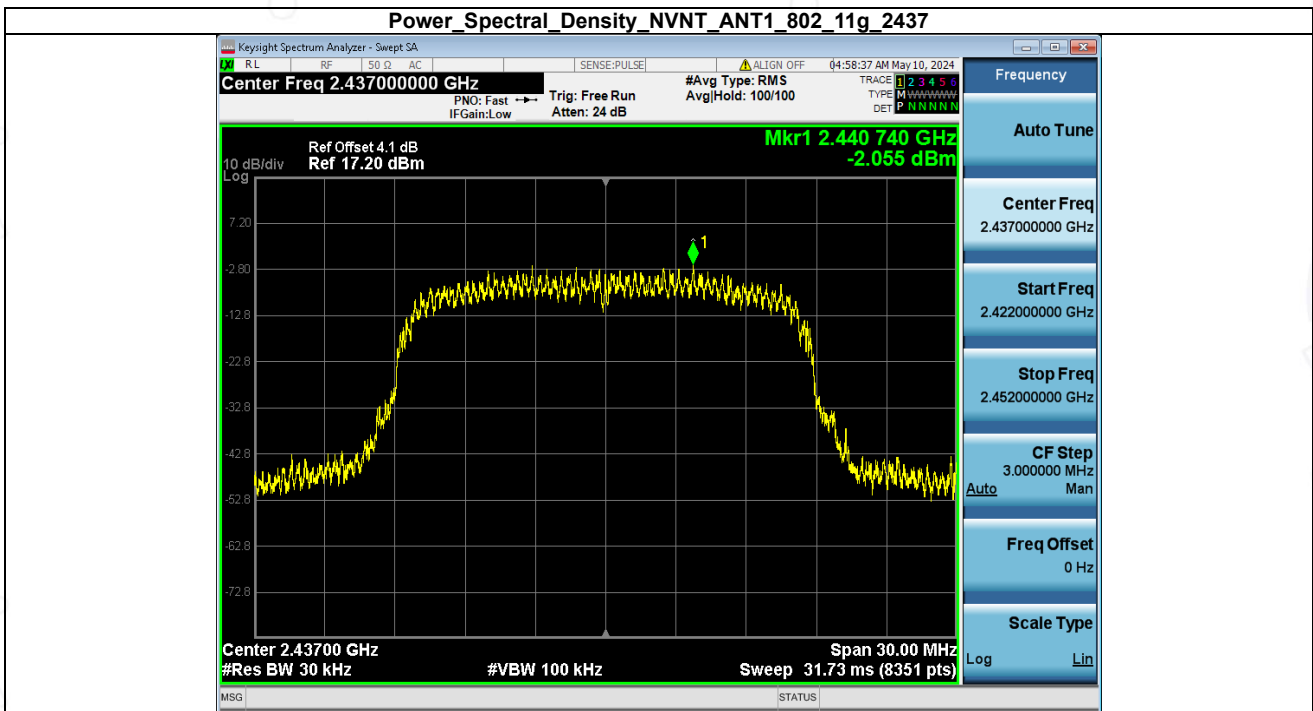
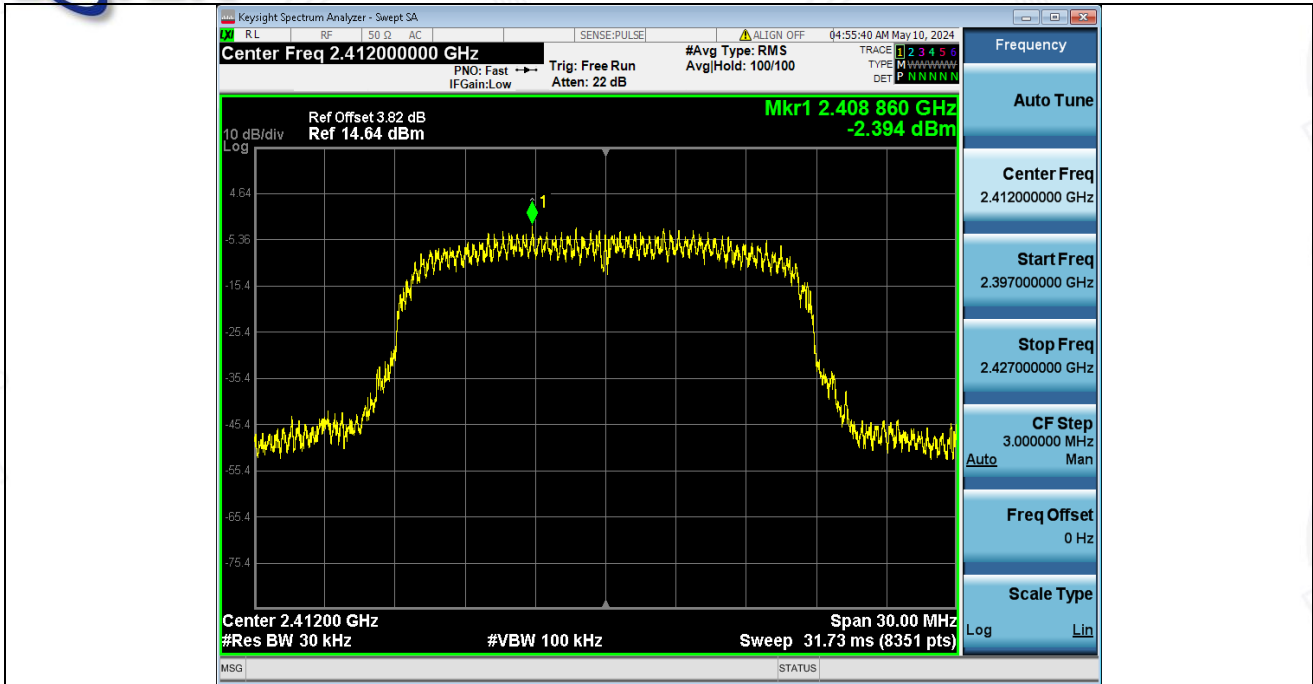
Power Spectral Density NVNT_ANT1_802_11b_2437





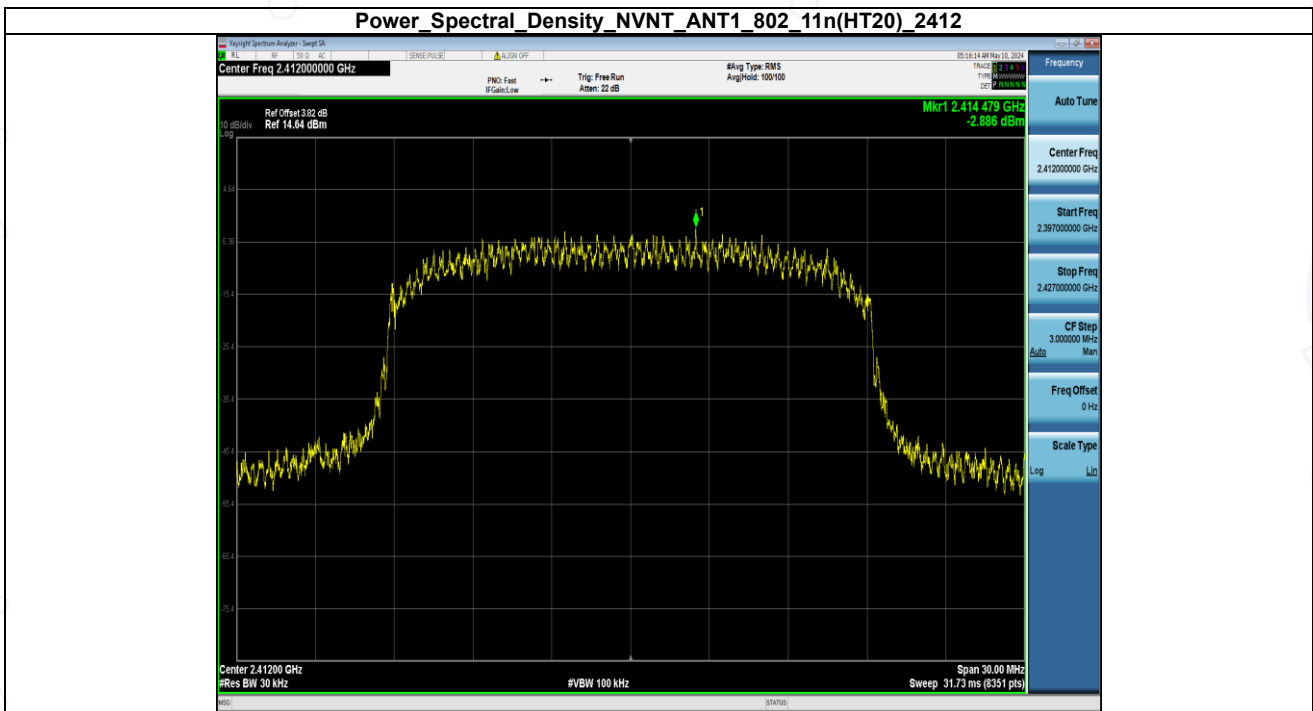
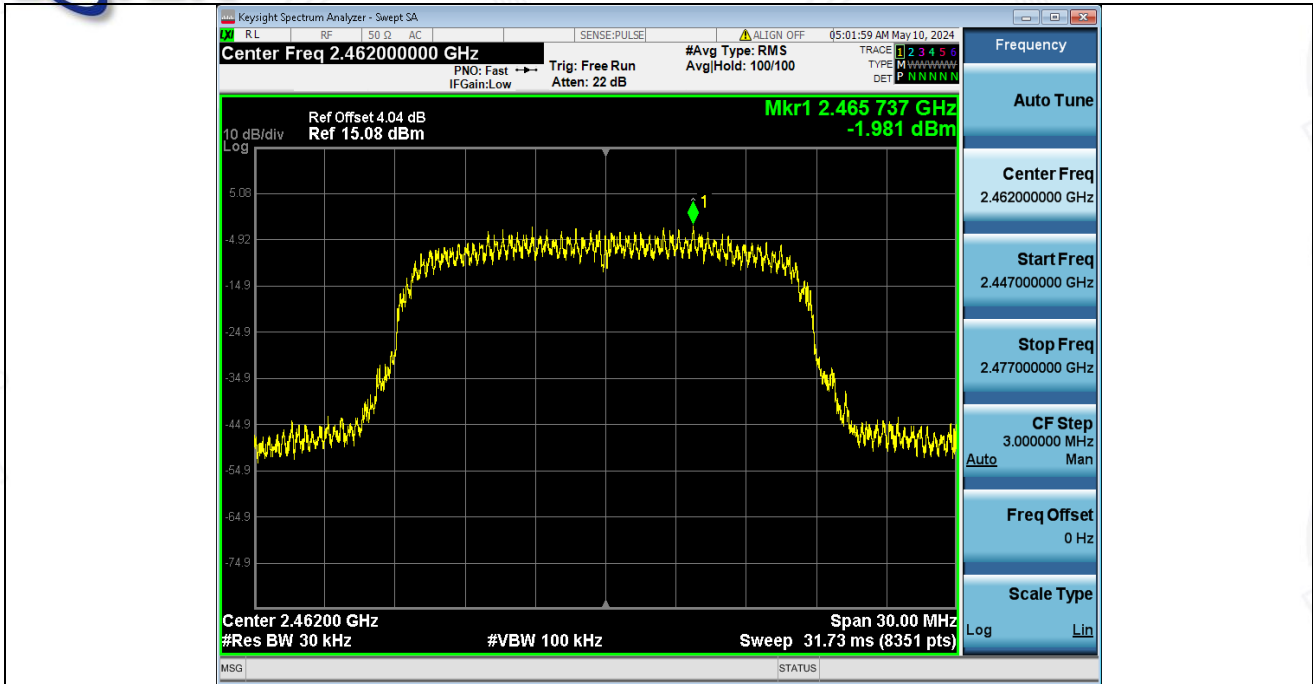
Power Spectral Density NVNT_ANT1_802_11g_2412





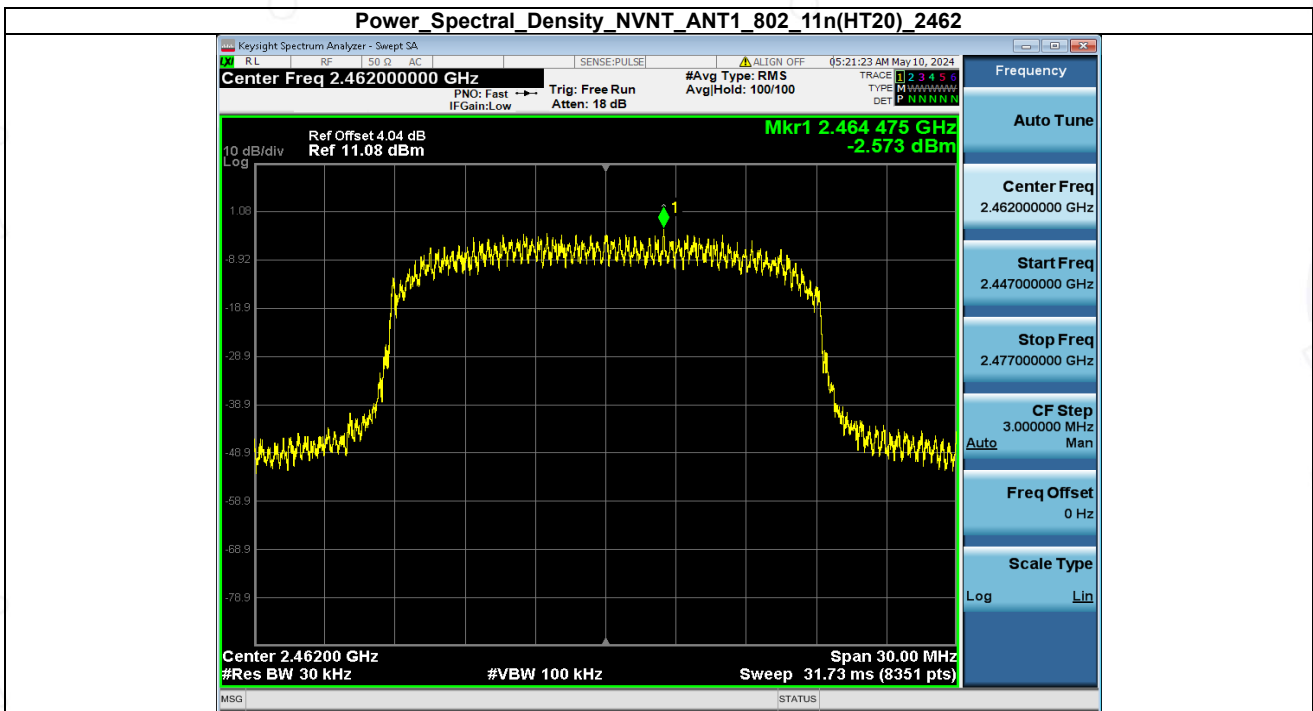
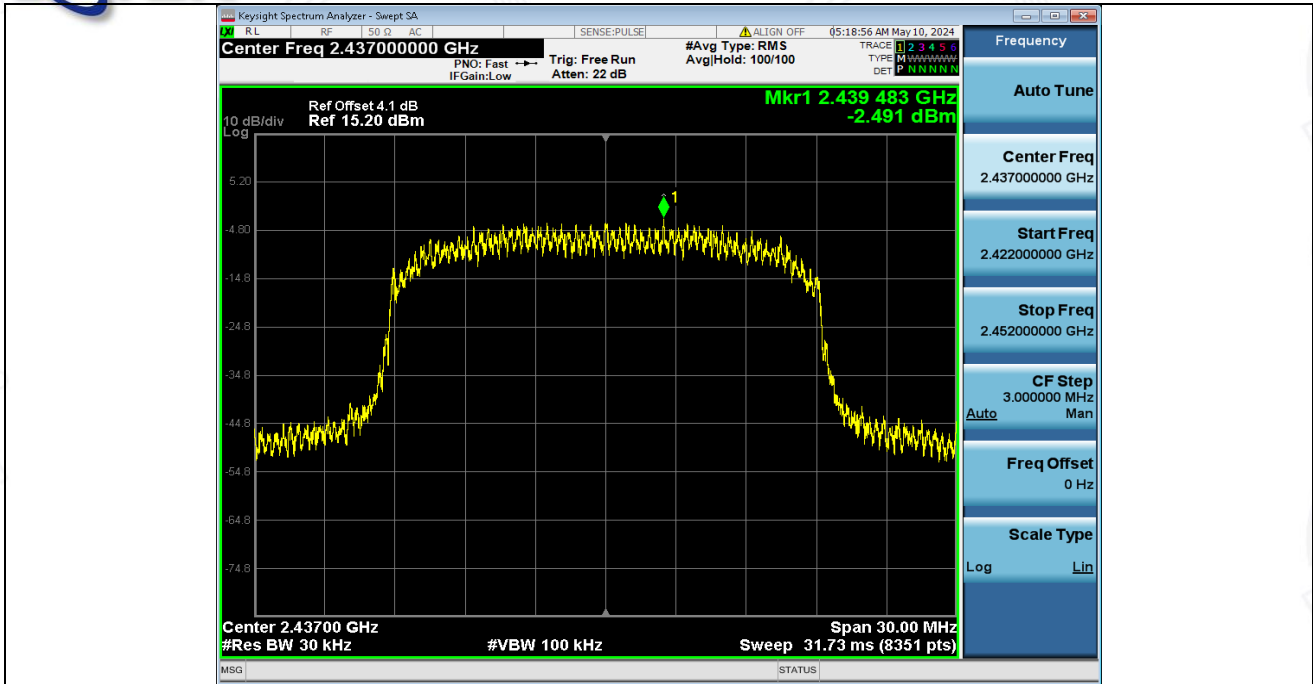
Power Spectral Density NVNT_ANT1_802_11g_2462





Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437





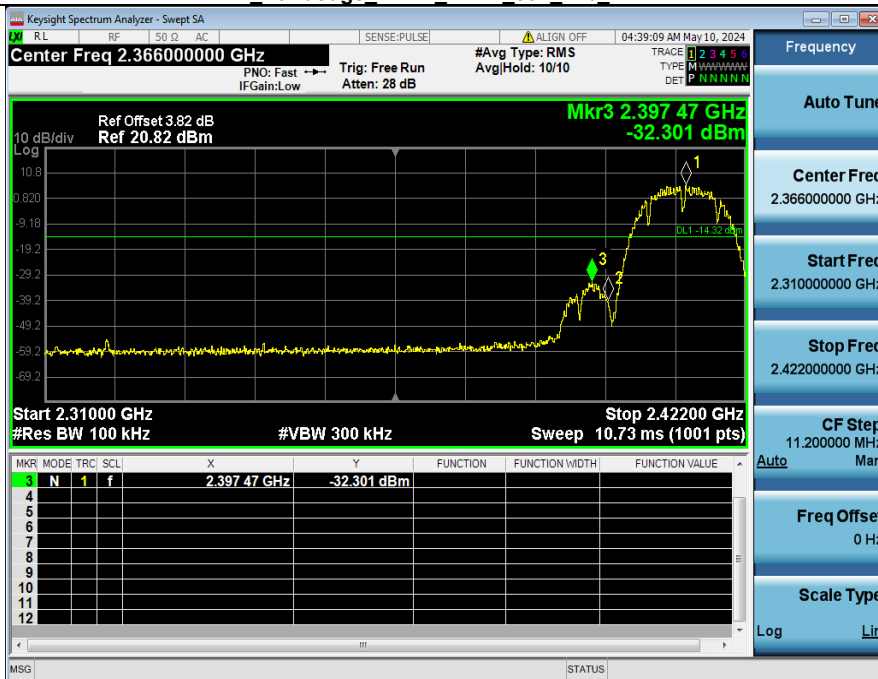
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.472	-32.301	-14.323	Pass
NVNT	ANT1	802.11b	2462.00	2484.064	-52.833	-14.251	Pass
NVNT	ANT1	802.11g	2412.00	2398.256	-38.583	-17.985	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-46.830	-17.675	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.024	-39.323	-14.883	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-47.820	-14.451	Pass

1 Reference Level NVNT ANT1 802 11b 2412



2 Bandedge NVNT ANT1 802 11b 2412



1 Reference Level NVNT ANT1 802 11b 2462



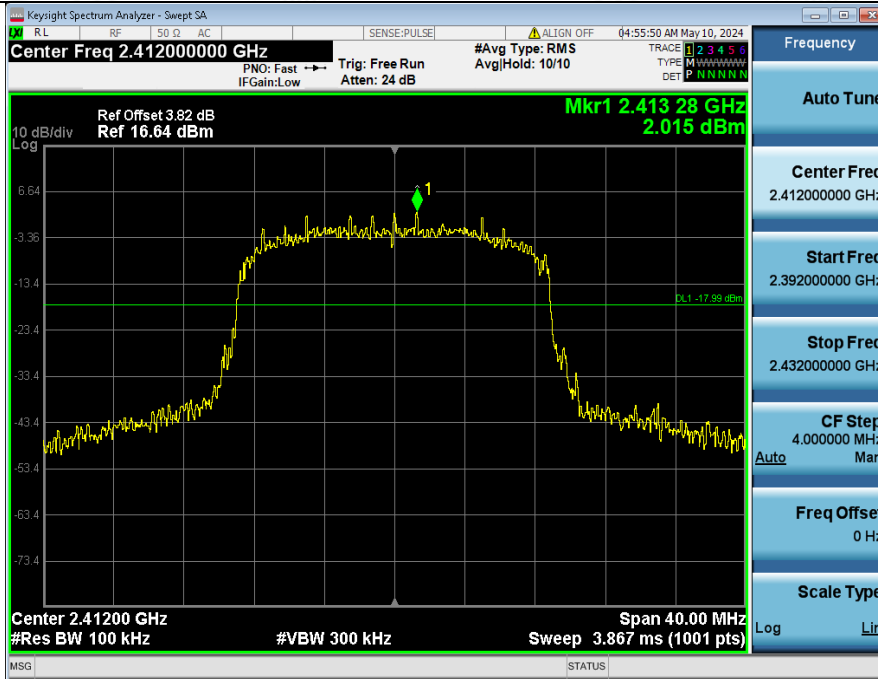


2 Bandedge_NVNT_ANT1_802_11b_2462

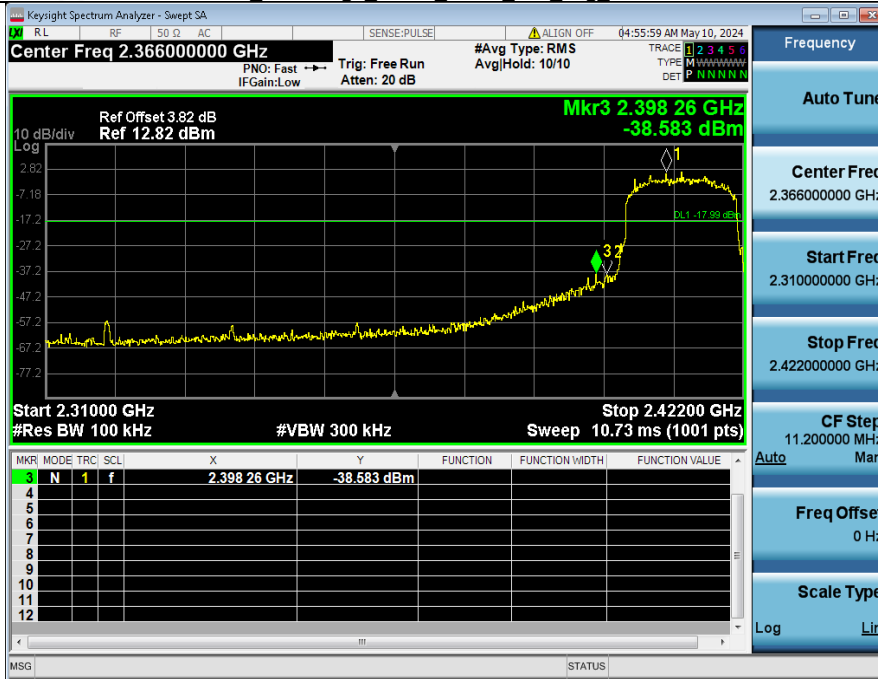


1 Reference_Level_NVNT_ANT1_802_11g_2412



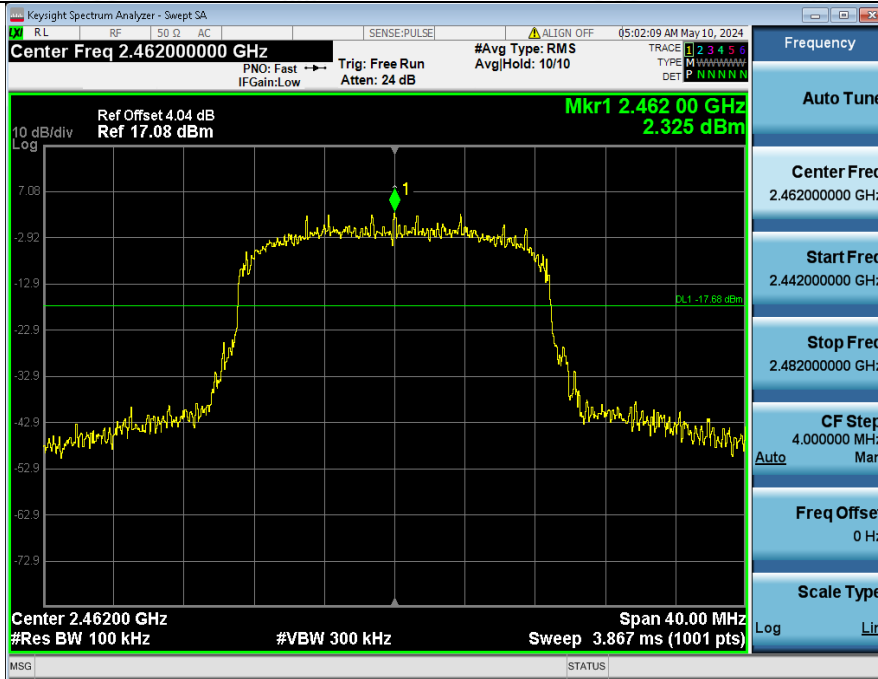


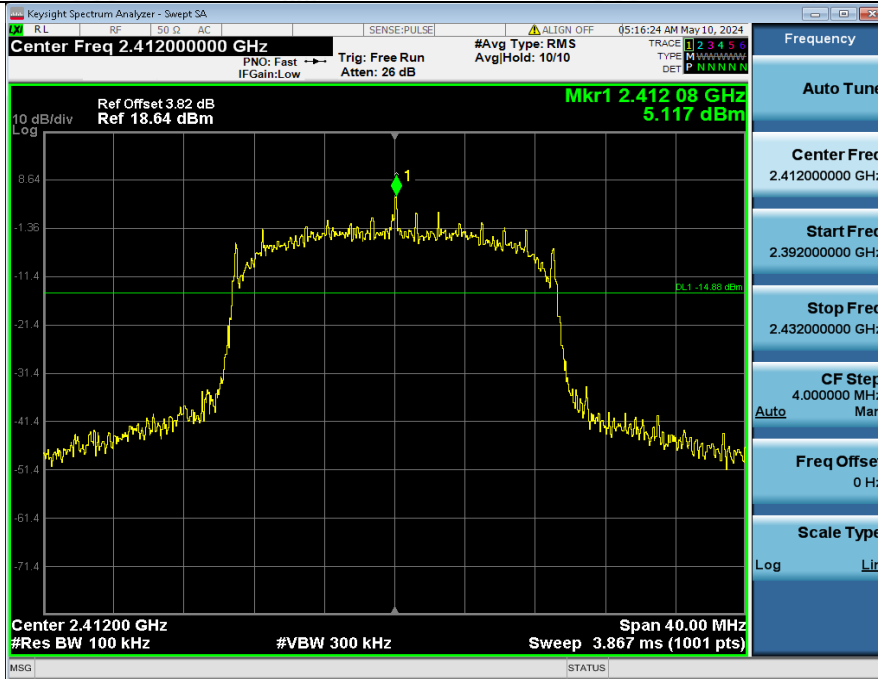
2 Bandedge NVNT_ANT1_802_11g_2412



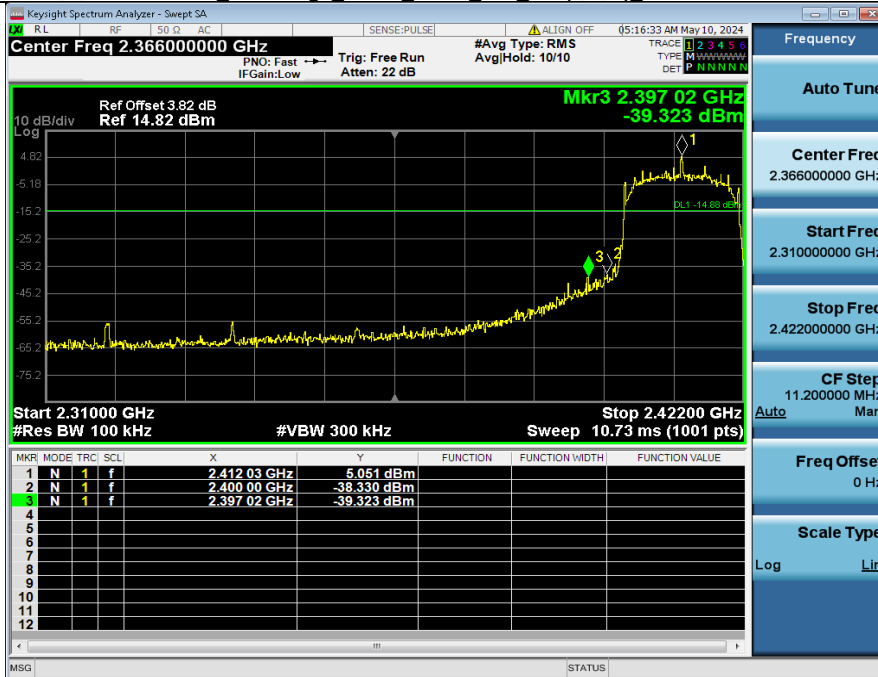
1 Reference Level NVNT_ANT1_802_11g_2462





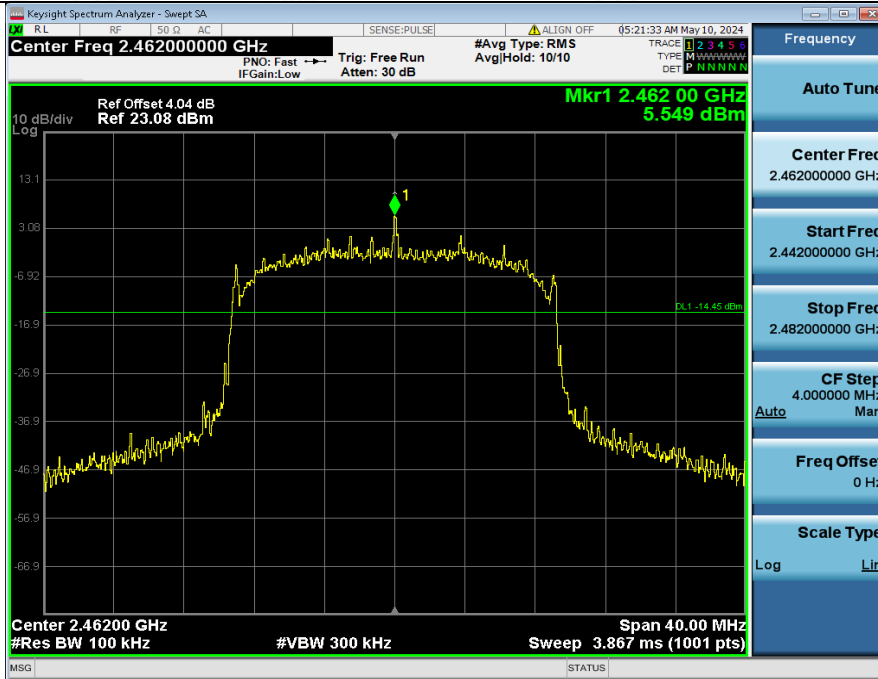


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462





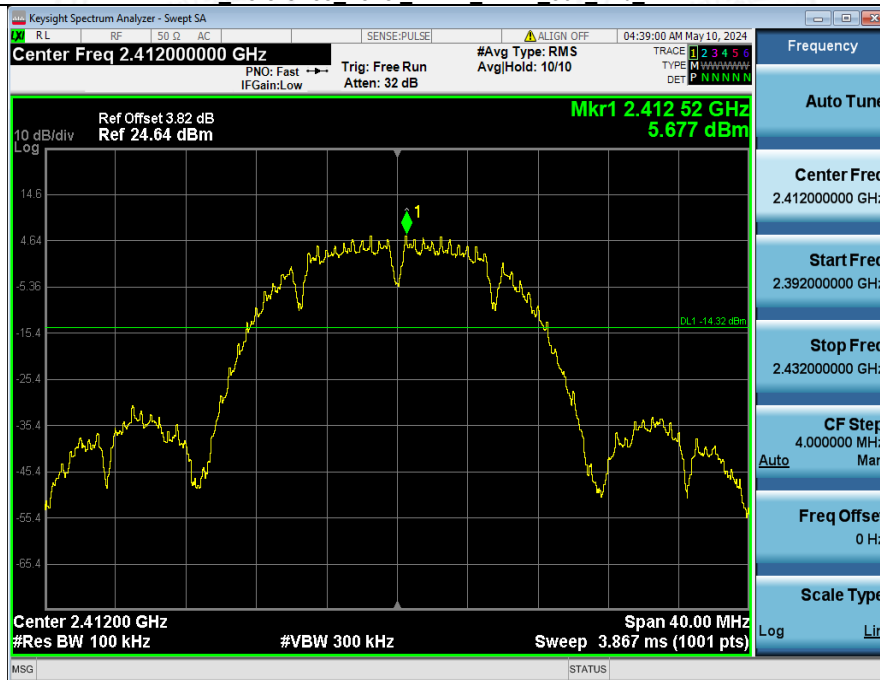
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



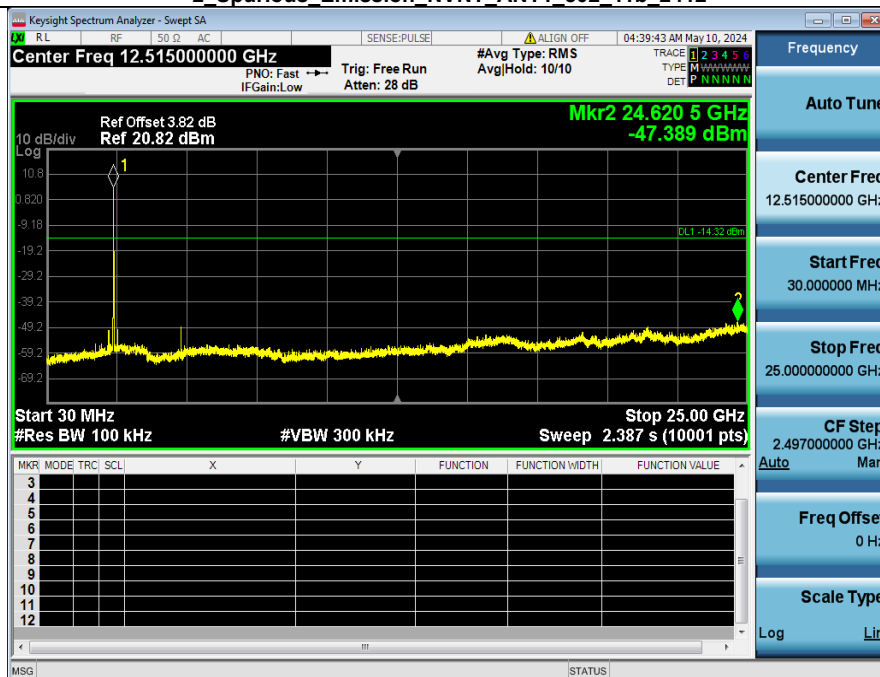
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24620.456	-47.389	-14.323	Pass
NVNT	ANT1	802.11b	2437.00	24755.294	-46.707	-14.091	Pass
NVNT	ANT1	802.11b	2462.00	24660.408	-46.650	-14.251	Pass
NVNT	ANT1	802.11g	2412.00	2559.461	-51.483	-17.985	Pass
NVNT	ANT1	802.11g	2437.00	2559.461	-51.204	-18.198	Pass
NVNT	ANT1	802.11g	2462.00	2559.461	-51.404	-17.675	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2239.845	-51.234	-14.883	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	23614.165	-47.251	-17.987	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24780.264	-49.231	-14.451	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Spurious_Emission_NVNT_ANT1_802_11b_2412

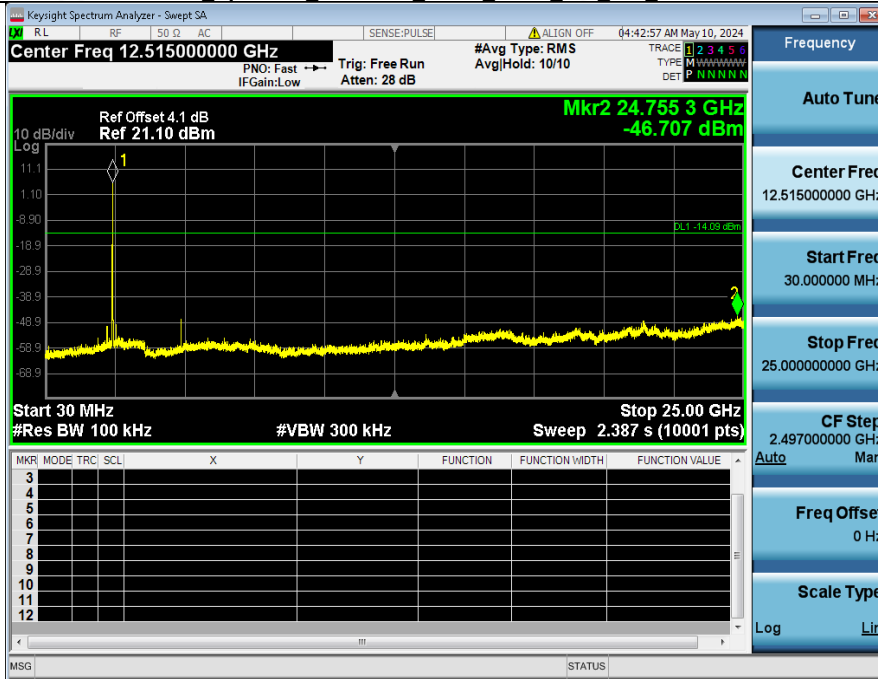


1 Reference_Level_NVNT_ANT1_802_11b_2437





2 Spurious Emission NVNT_ANT1_802_11b_2437

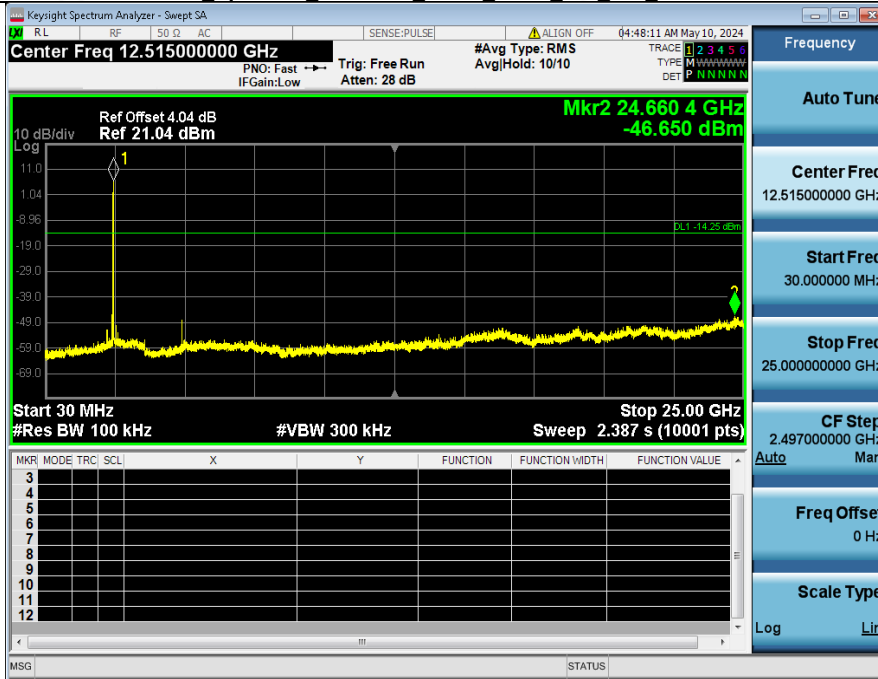


1 Reference Level NVNT_ANT1_802_11b_2462



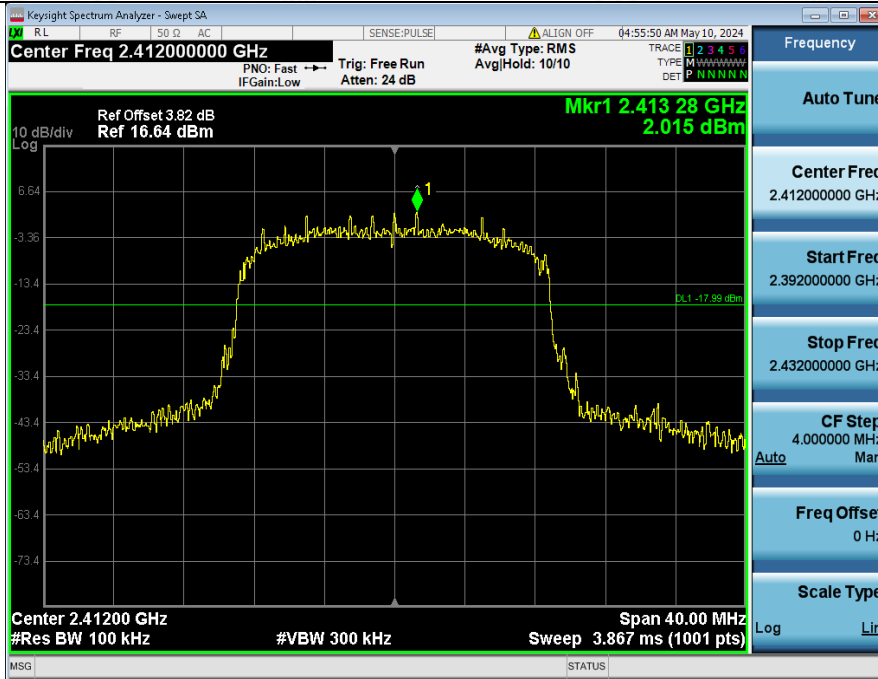


2 Spurious Emission NVNT_ANT1_802_11b_2462

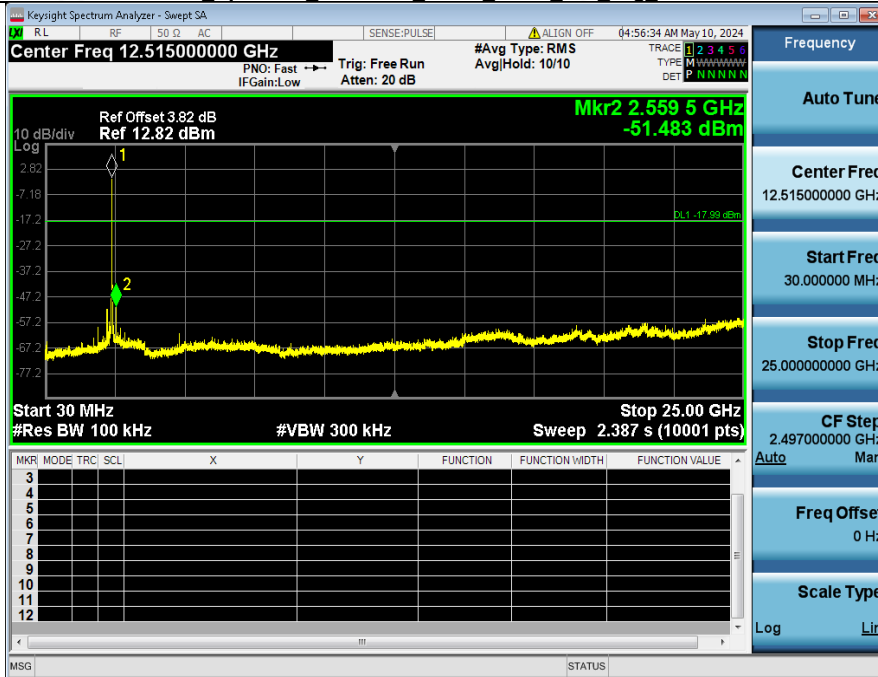


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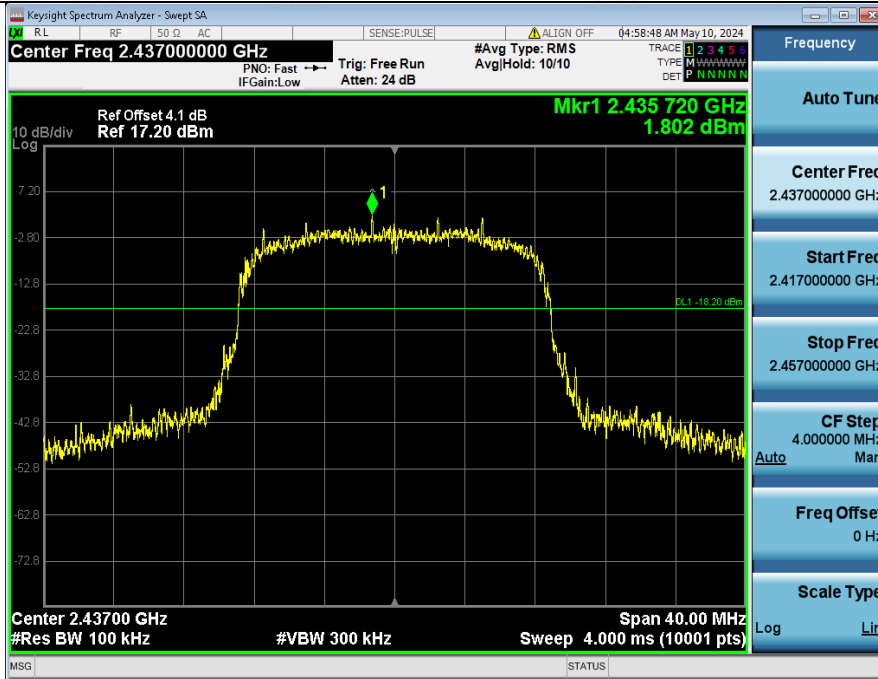


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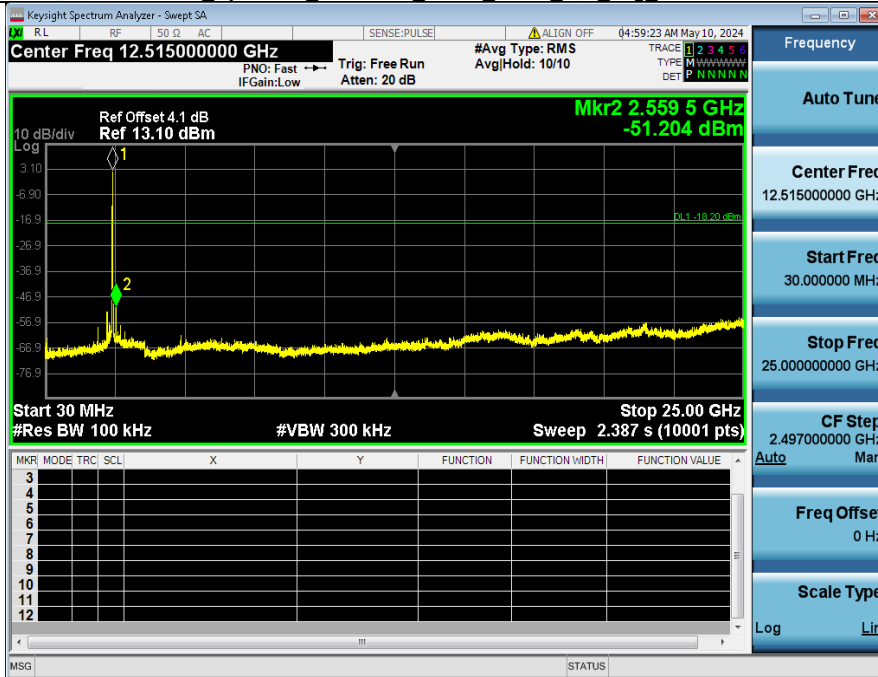


1 Reference Level NVNT_ANT1_802_11g_2437



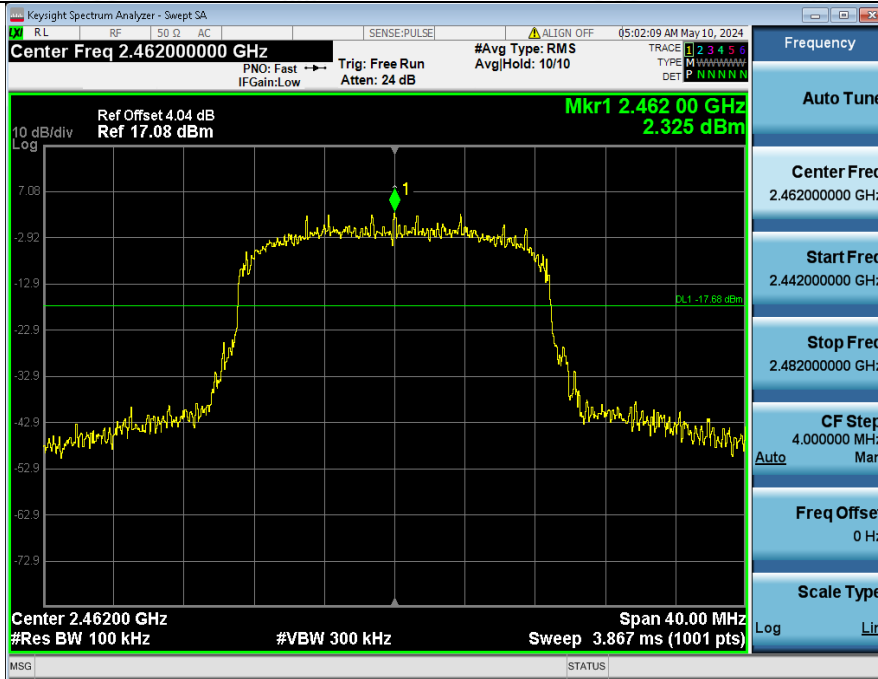


2 Spurious Emission NVNT_ANT1_802_11g_2437

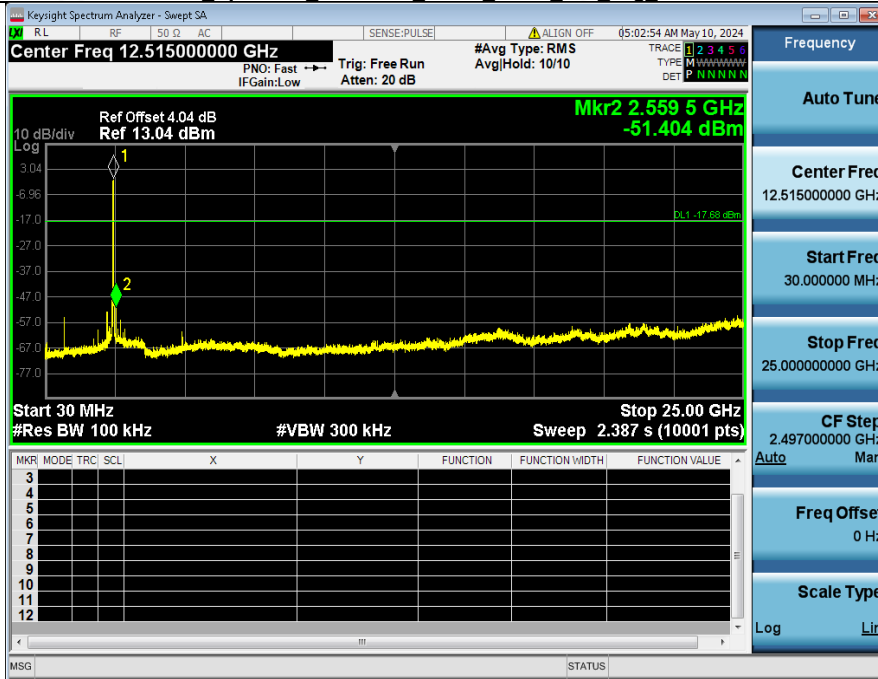


1 Reference Level NVNT_ANT1_802_11g_2462



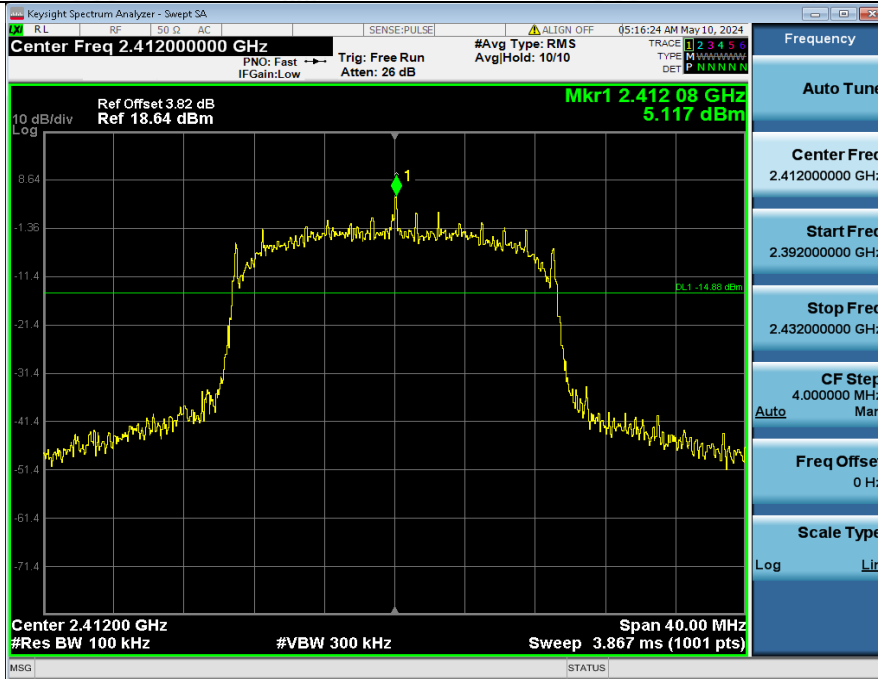


2 Spurious Emission NVNT_ANT1_802_11g_2462

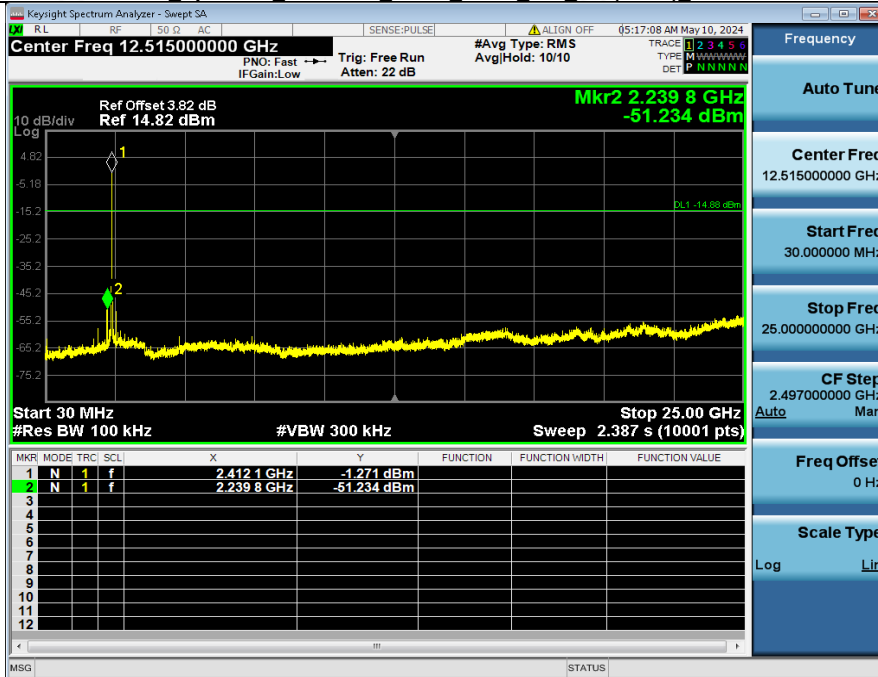


1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



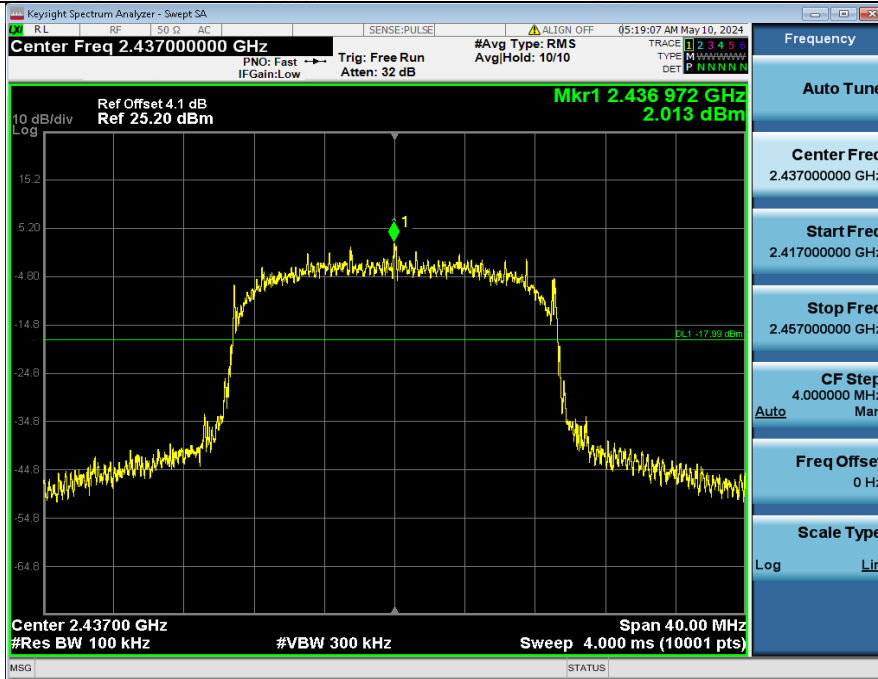


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412

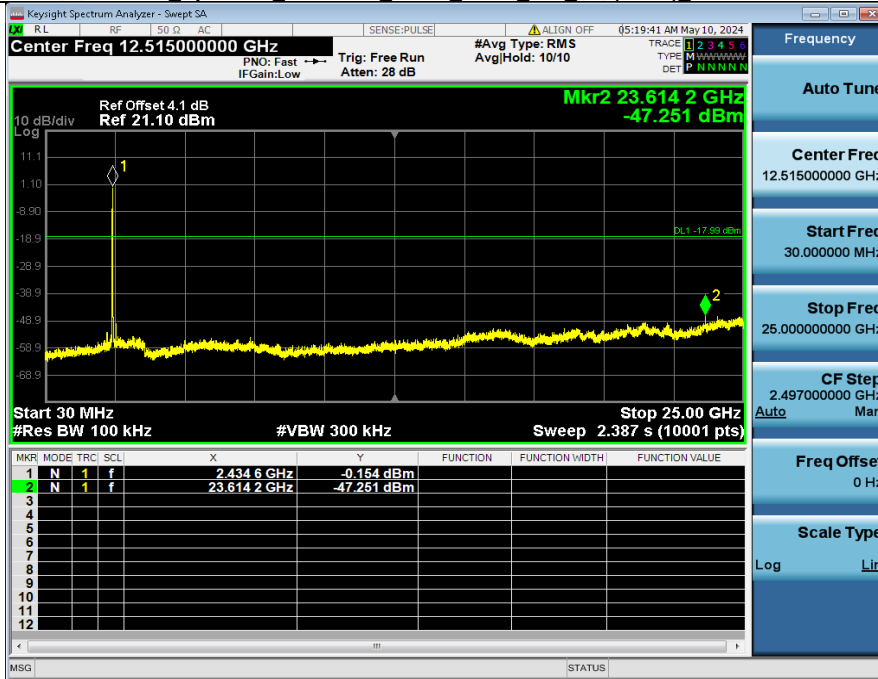


1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



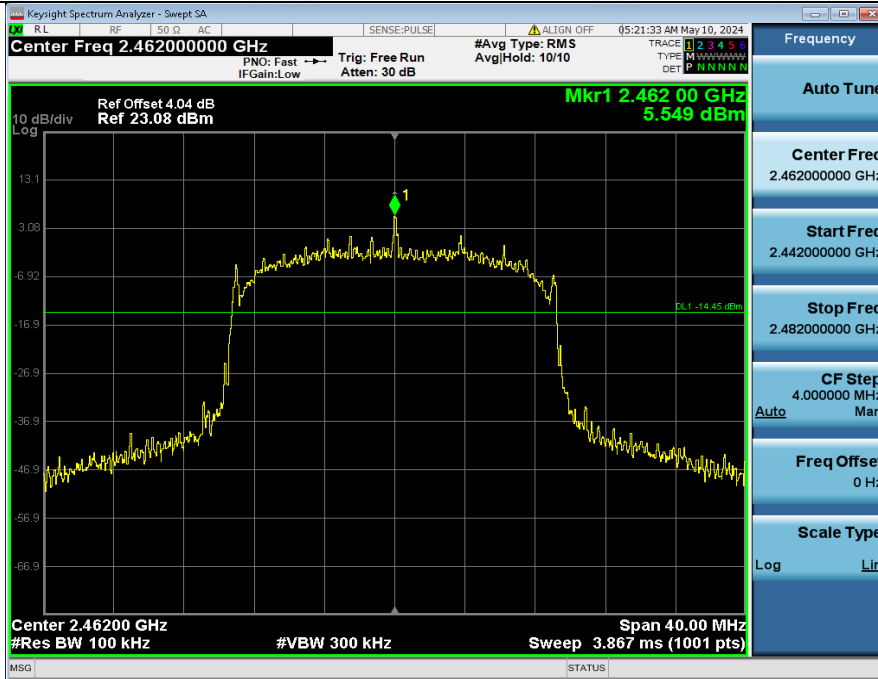


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462





2_Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

