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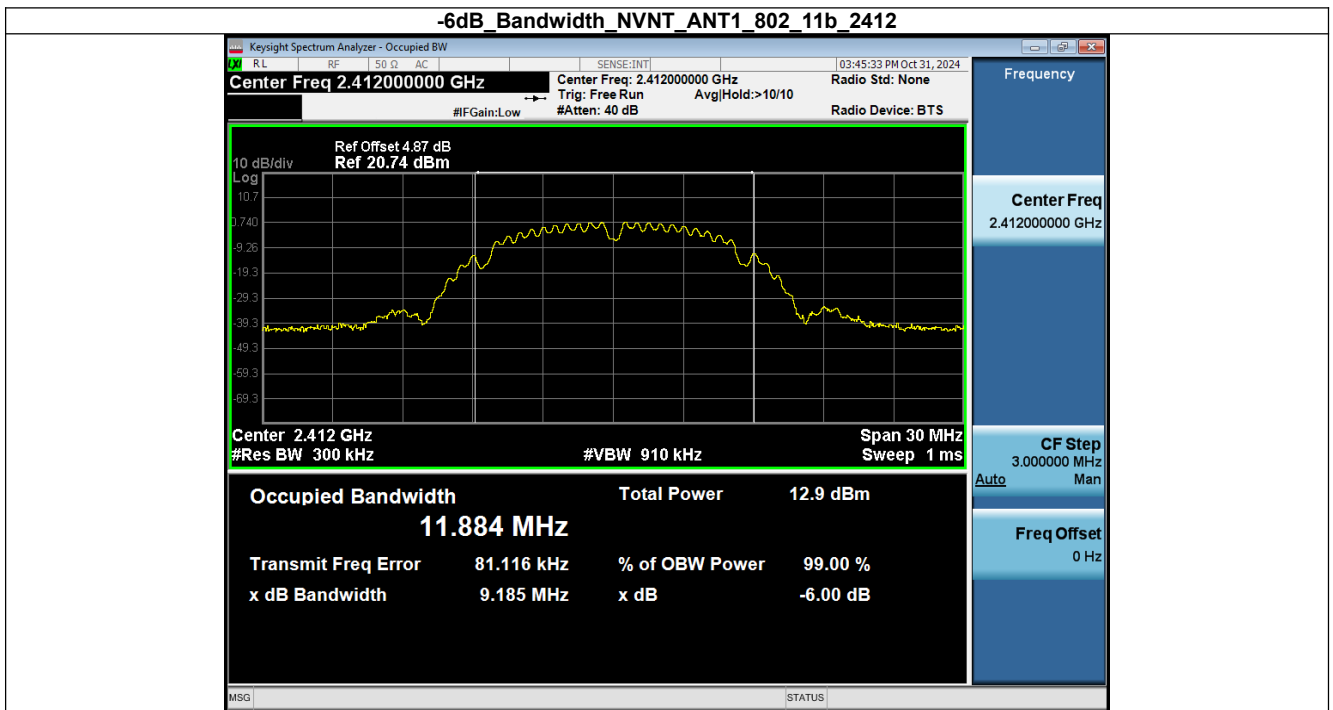
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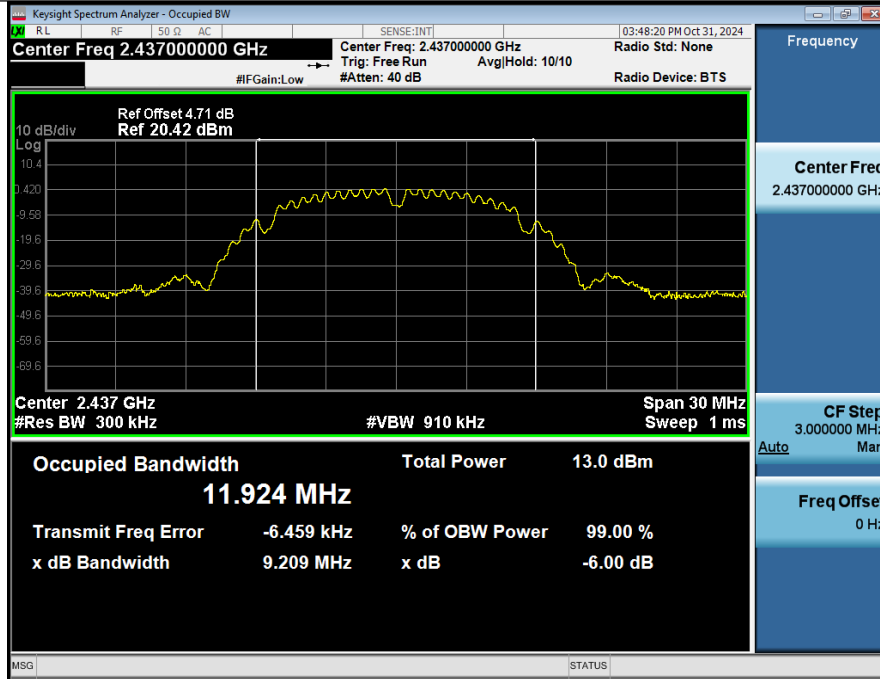
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

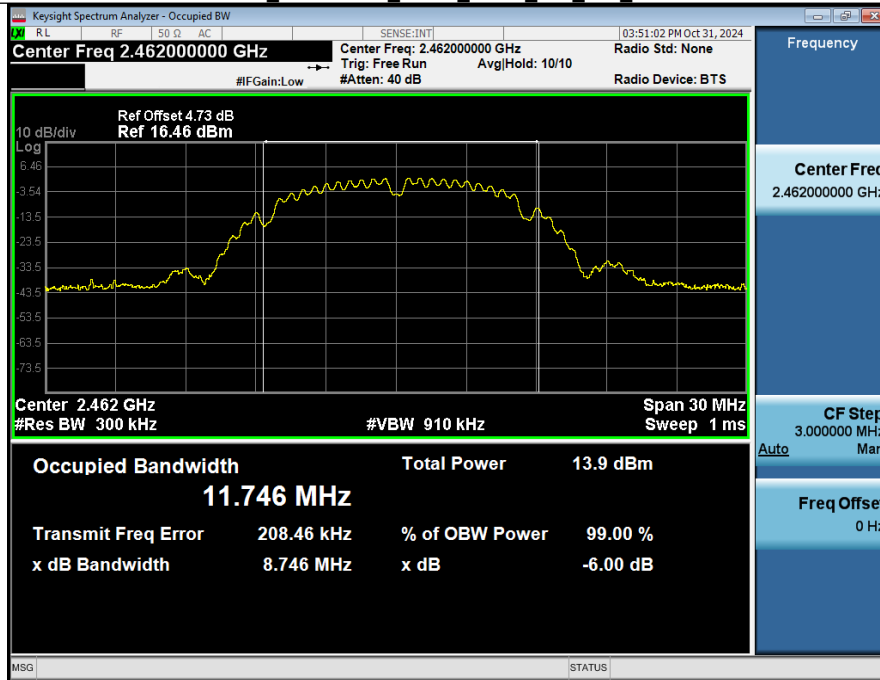
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.18	500	Pass
NVNT	ANT1	802.11b	2437.00	9.21	500	Pass
NVNT	ANT1	802.11b	2462.00	8.75	500	Pass
NVNT	ANT1	802.11g	2412.00	16.34	500	Pass
NVNT	ANT1	802.11g	2437.00	16.44	500	Pass
NVNT	ANT1	802.11g	2462.00	16.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.19	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.20	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.18	500	Pass



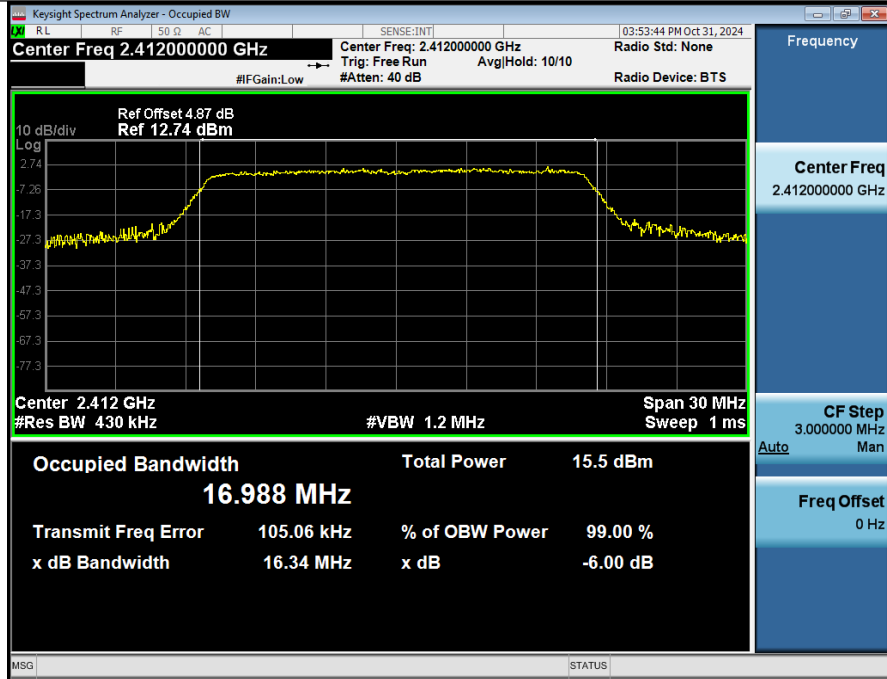
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



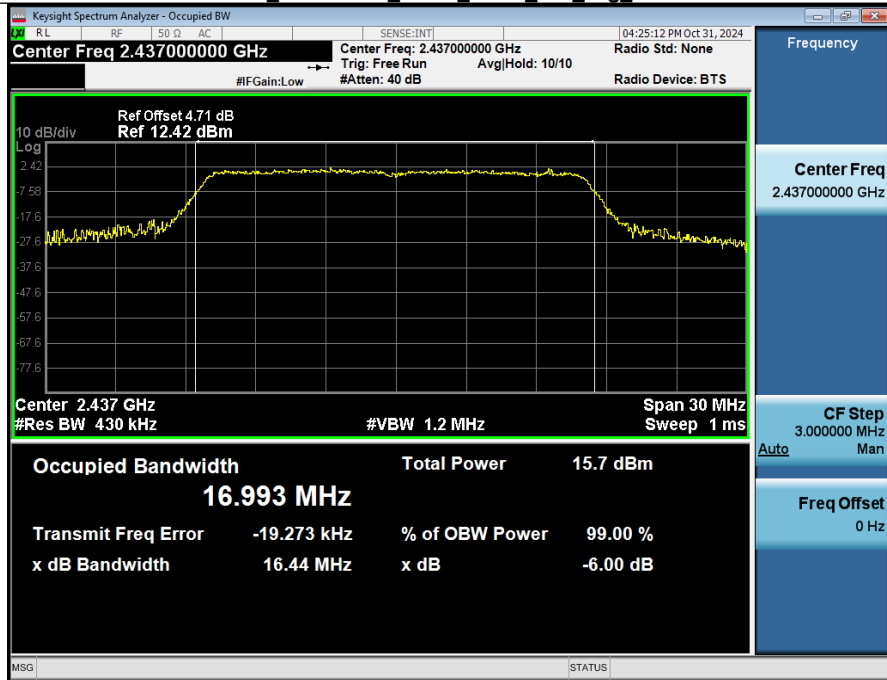
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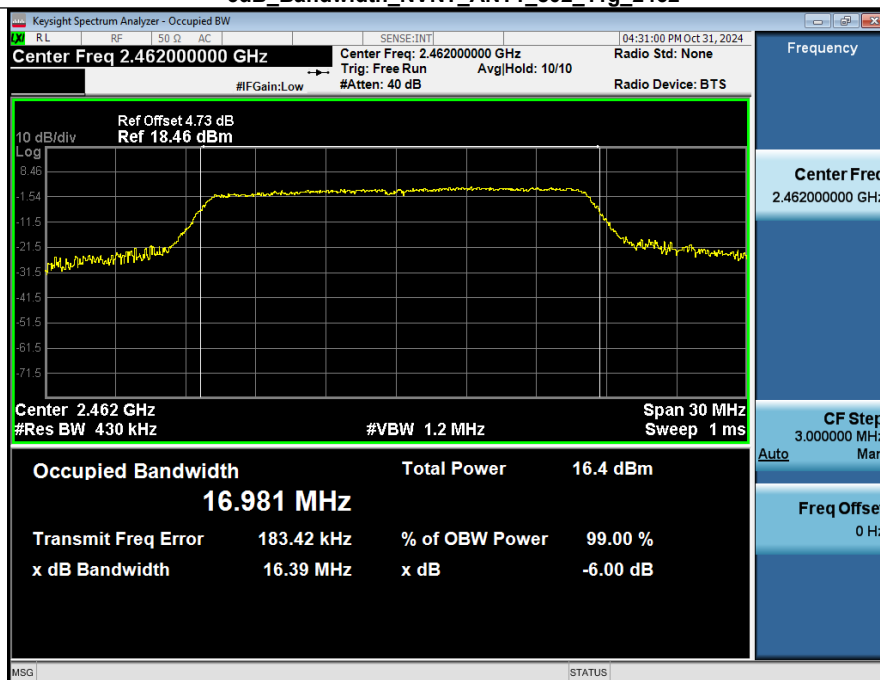
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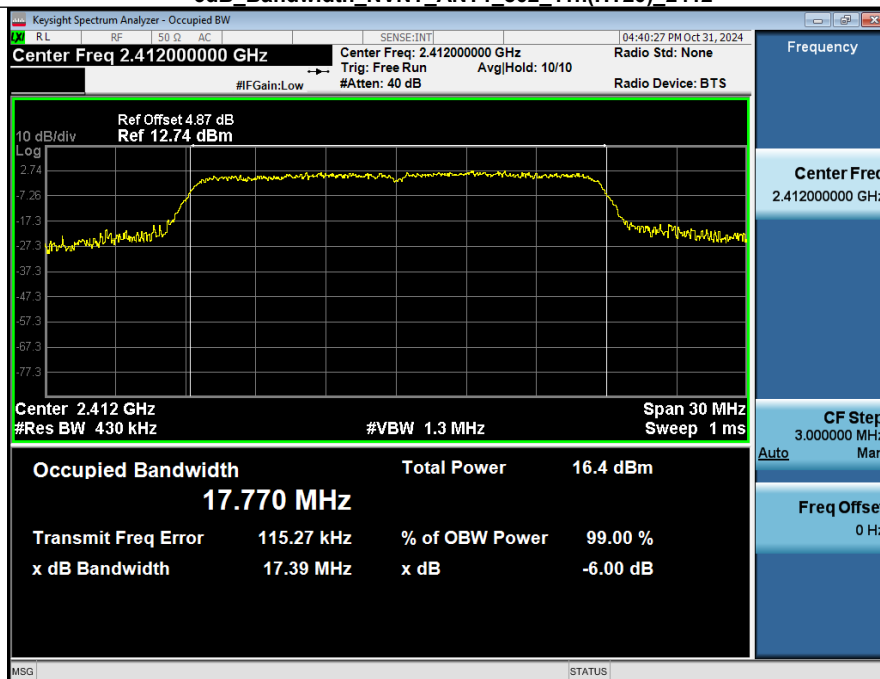
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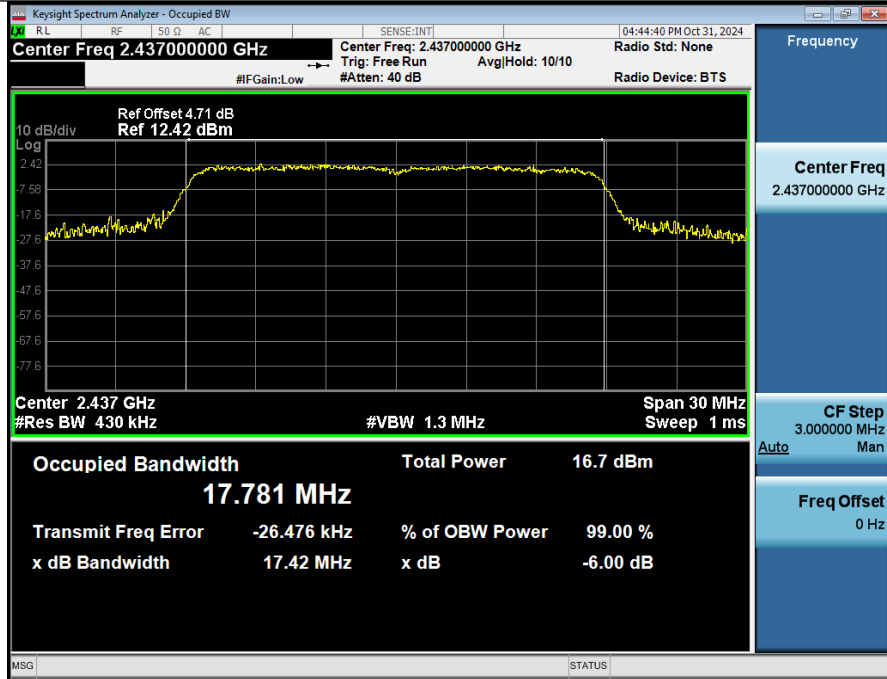
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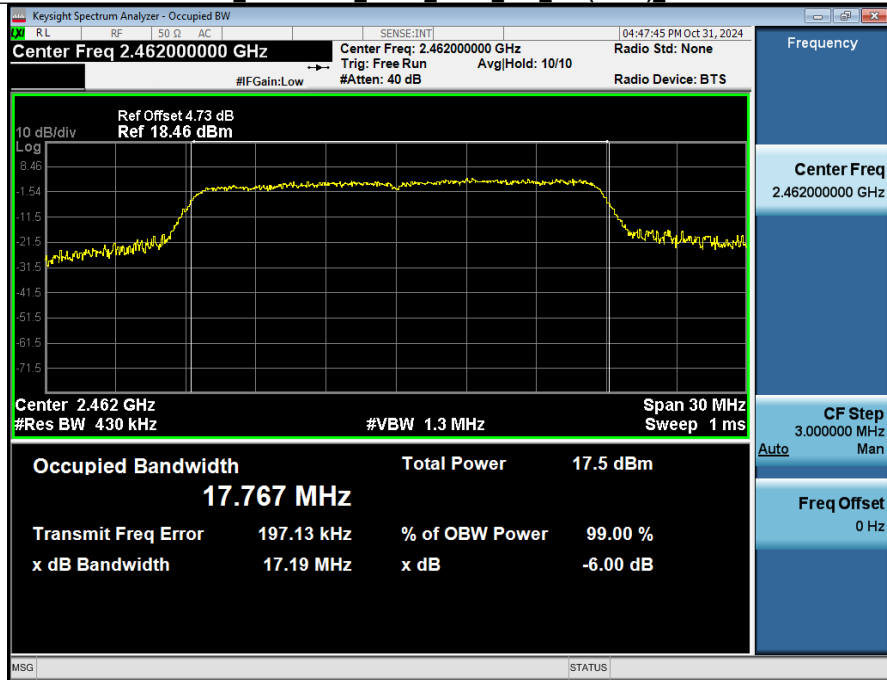
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



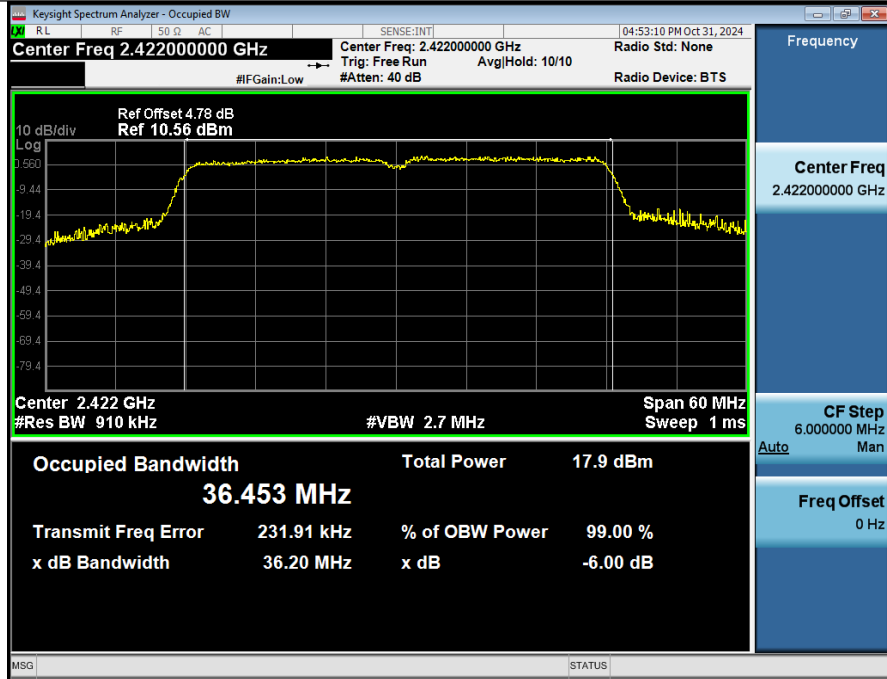
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



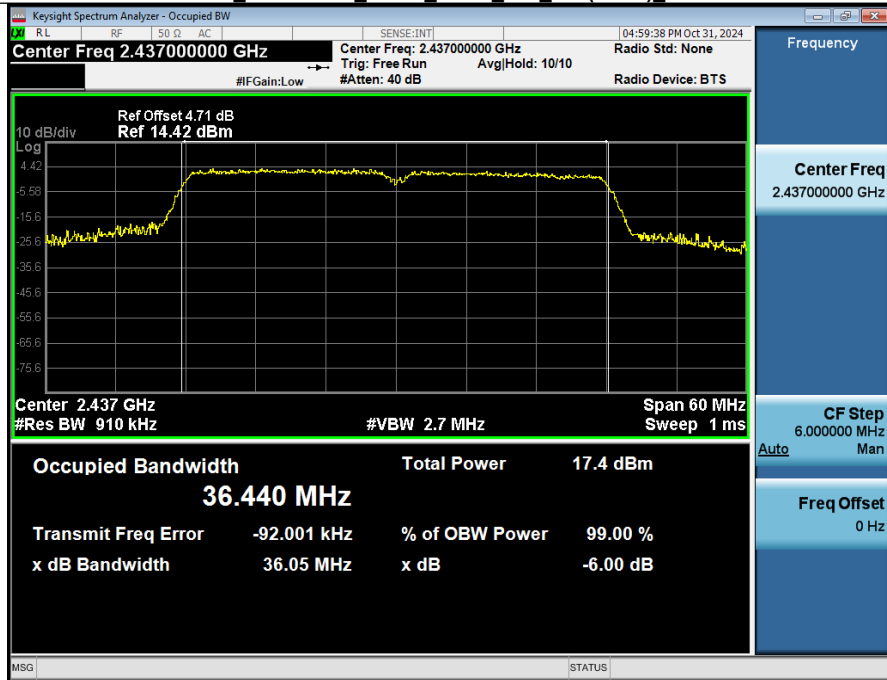
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



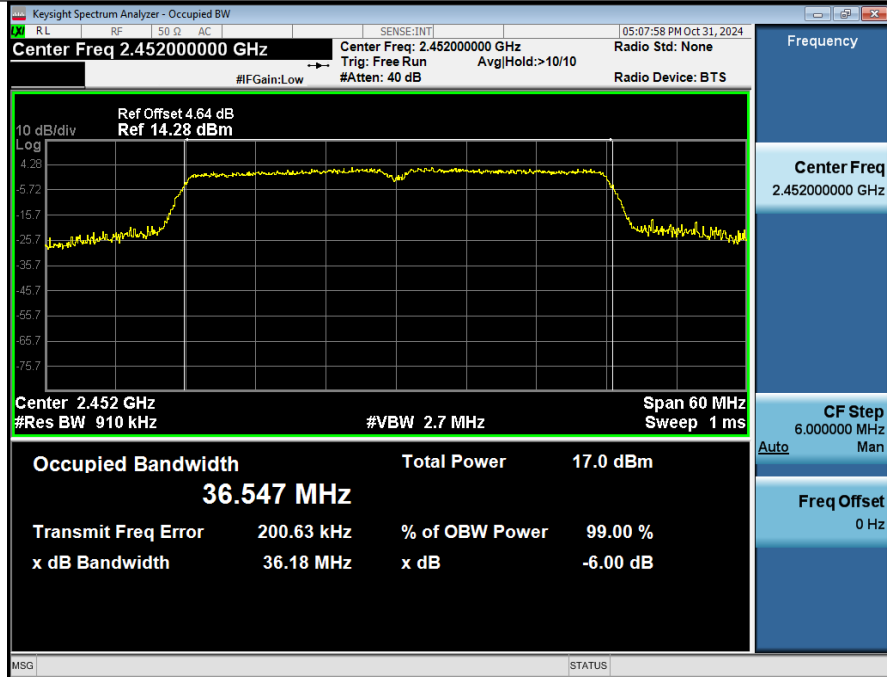
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

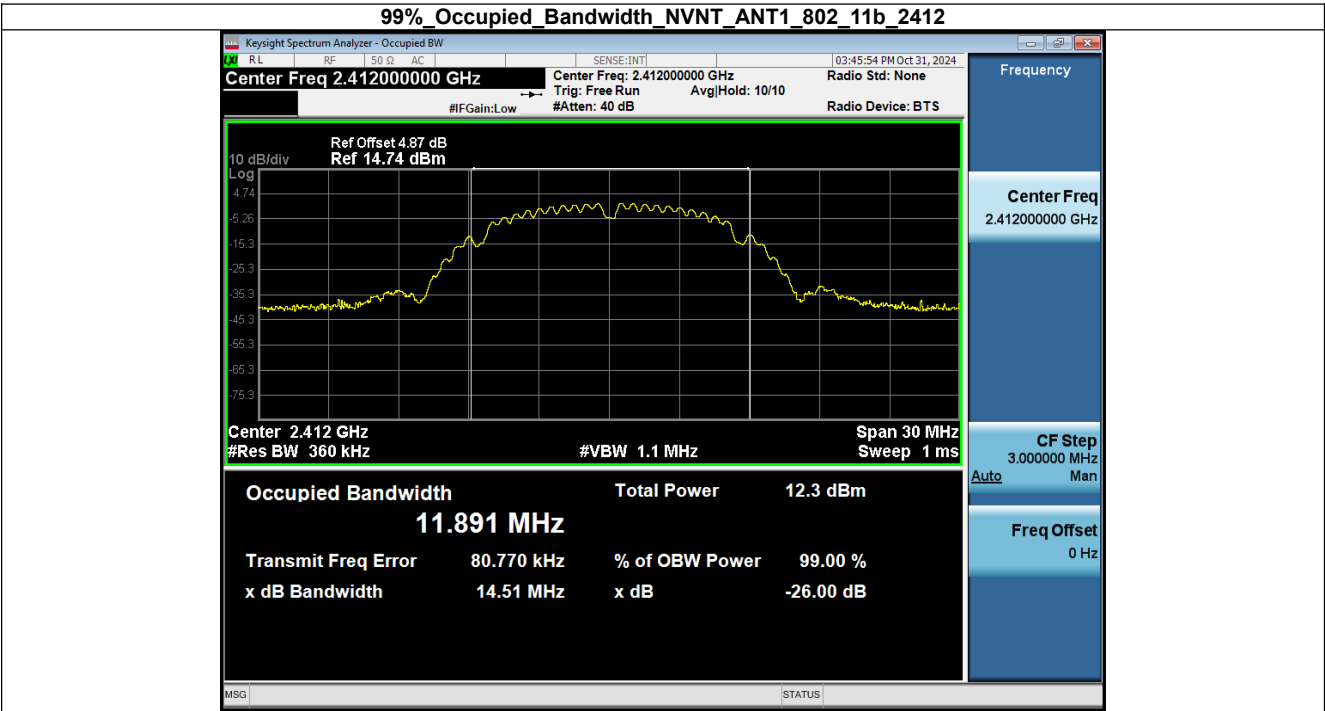


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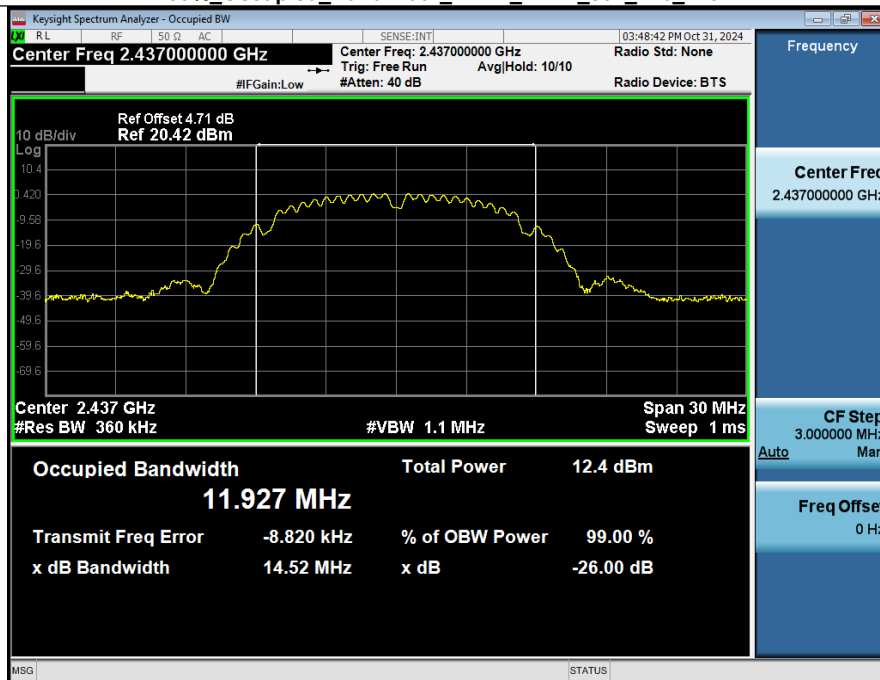


2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.891
NVNT	ANT1	802.11b	2437.00	11.927
NVNT	ANT1	802.11b	2462.00	11.783
NVNT	ANT1	802.11g	2412.00	17.094
NVNT	ANT1	802.11g	2437.00	17.097
NVNT	ANT1	802.11g	2462.00	17.164
NVNT	ANT1	802.11n(HT20)	2412.00	17.858
NVNT	ANT1	802.11n(HT20)	2437.00	17.892
NVNT	ANT1	802.11n(HT20)	2462.00	17.822
NVNT	ANT1	802.11n(HT40)	2422.00	36.423
NVNT	ANT1	802.11n(HT40)	2437.00	36.521
NVNT	ANT1	802.11n(HT40)	2452.00	36.557



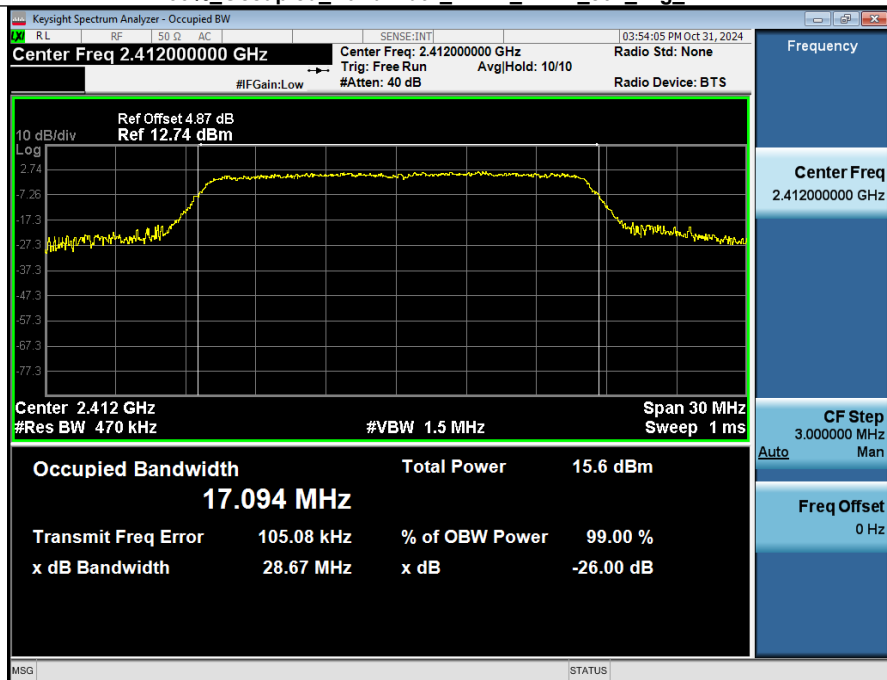
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



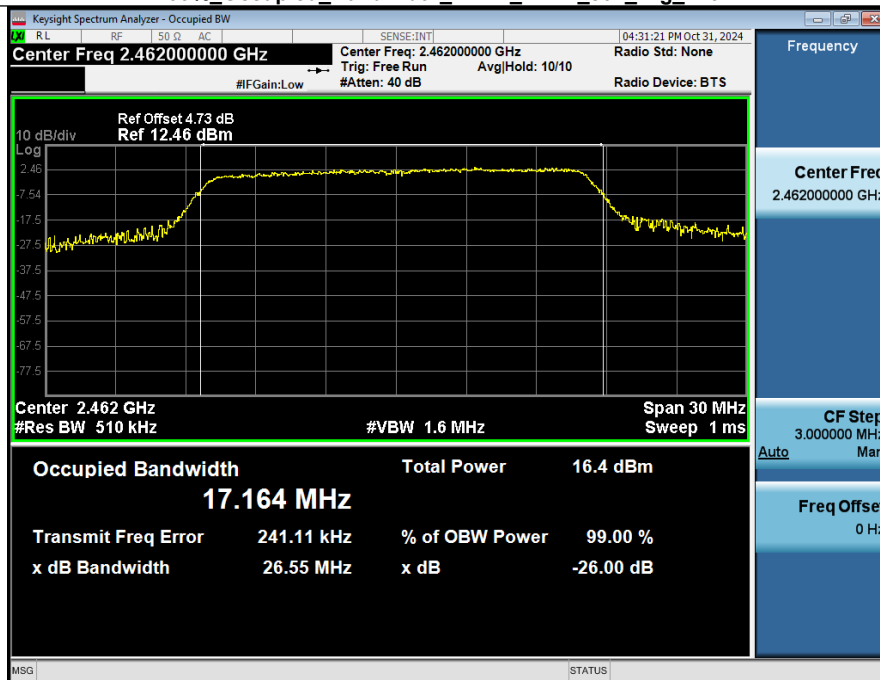
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



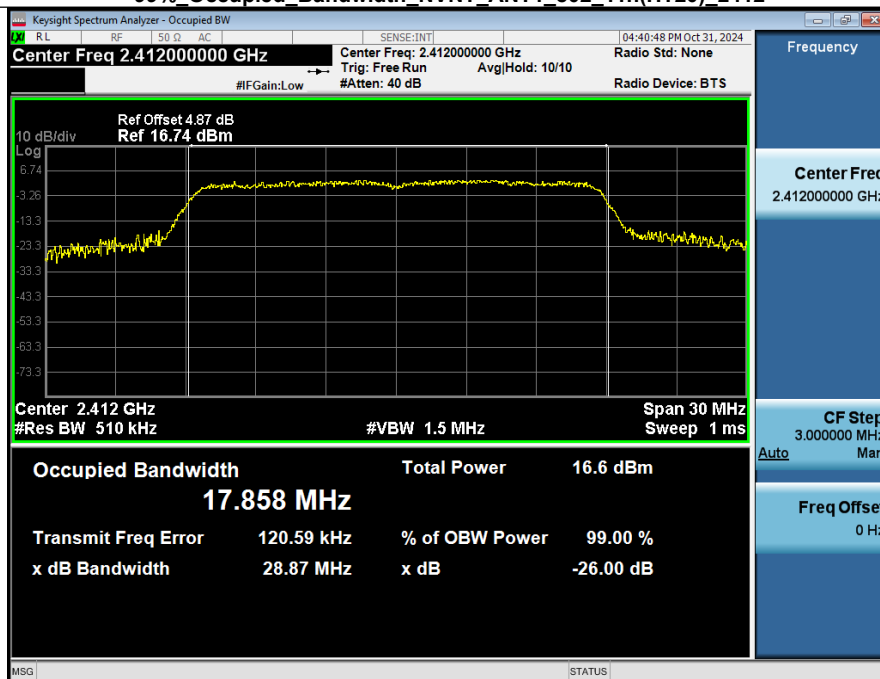
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

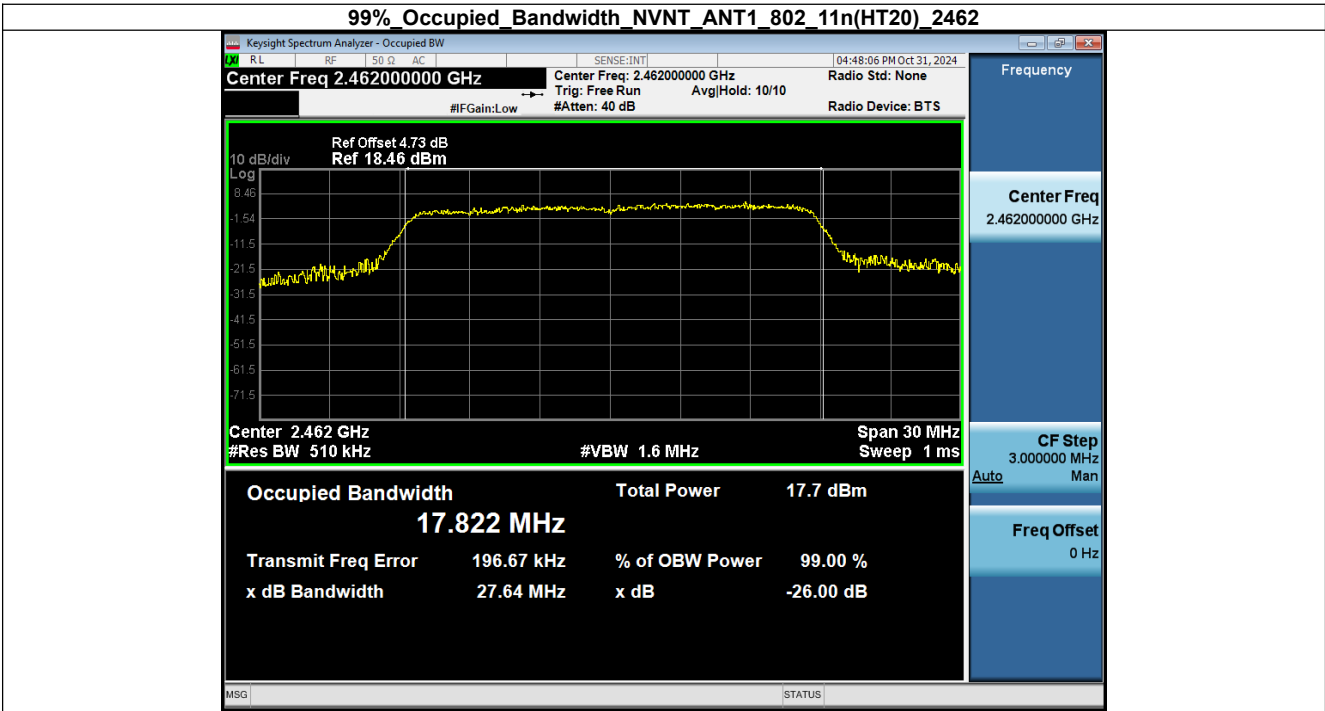
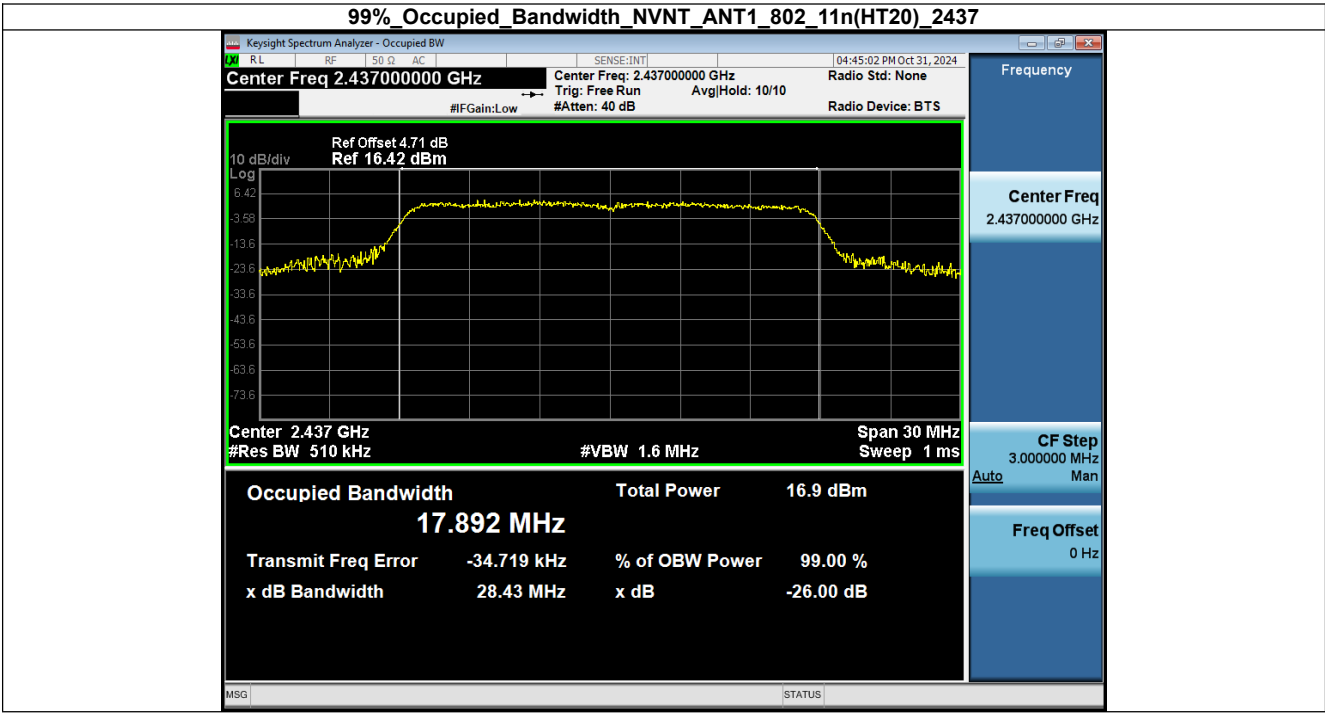


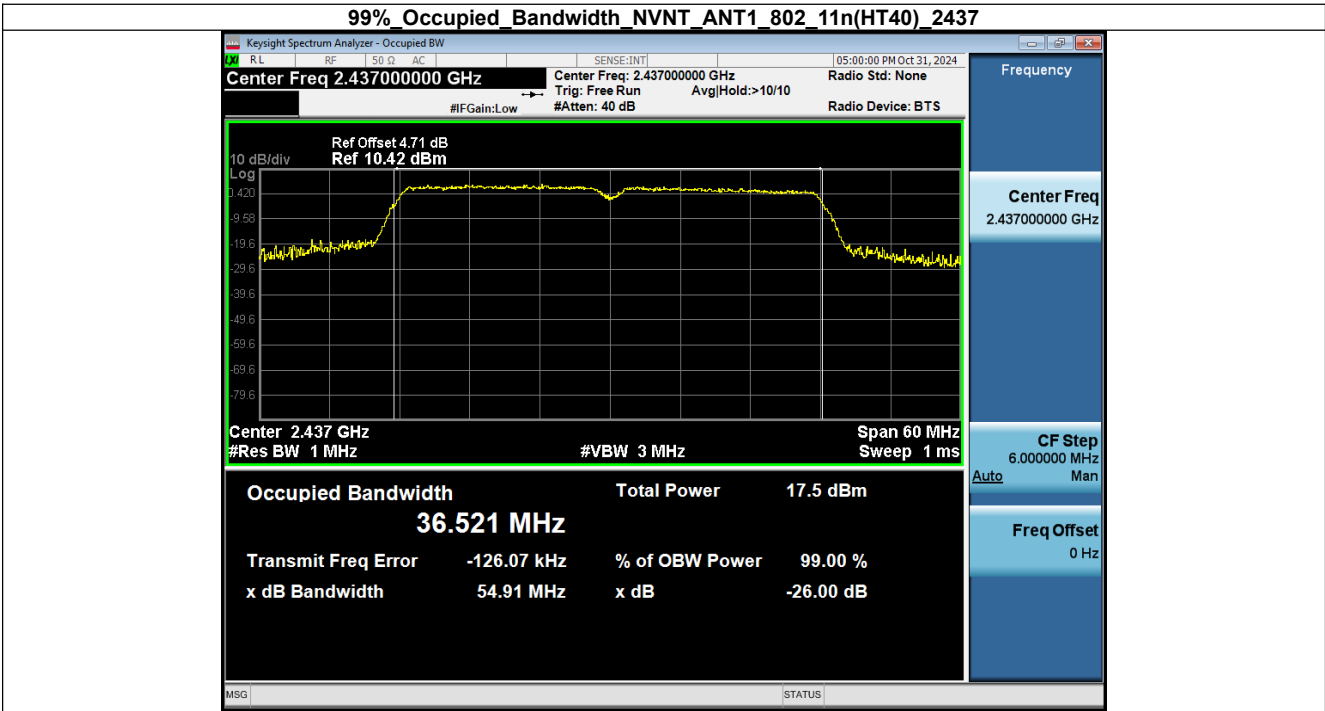
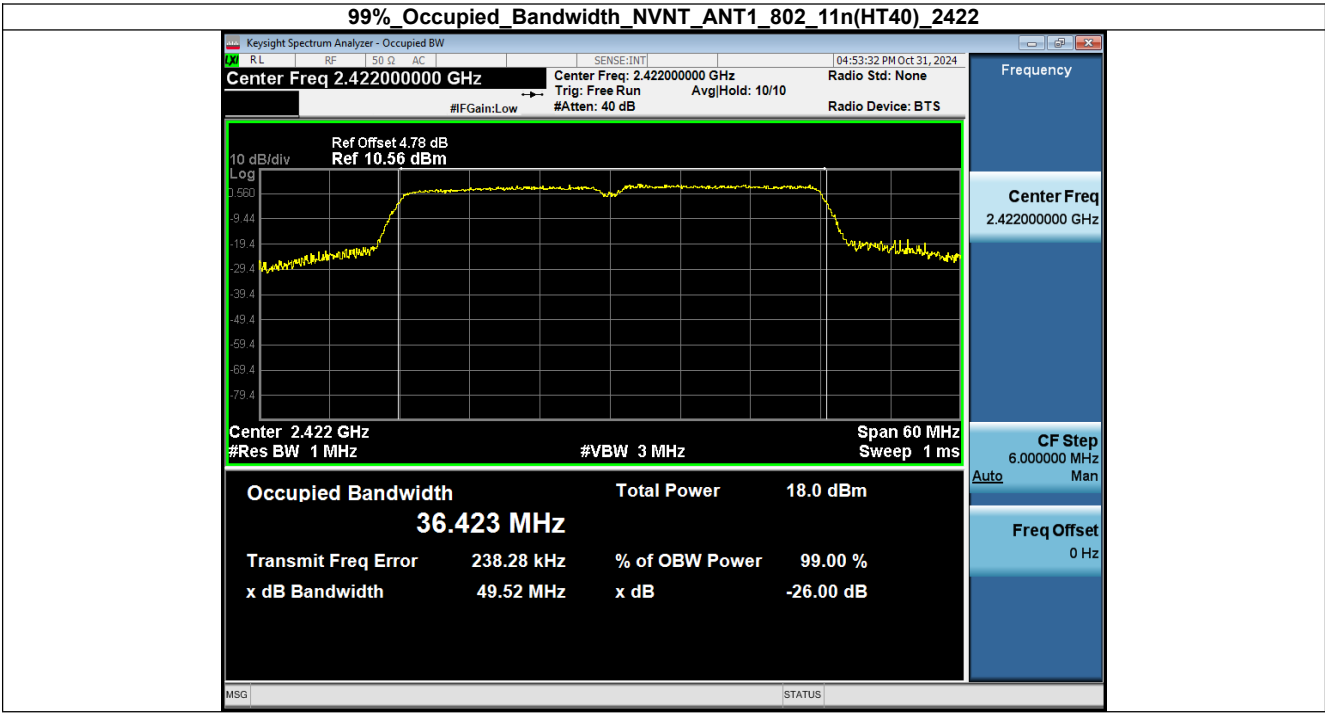
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

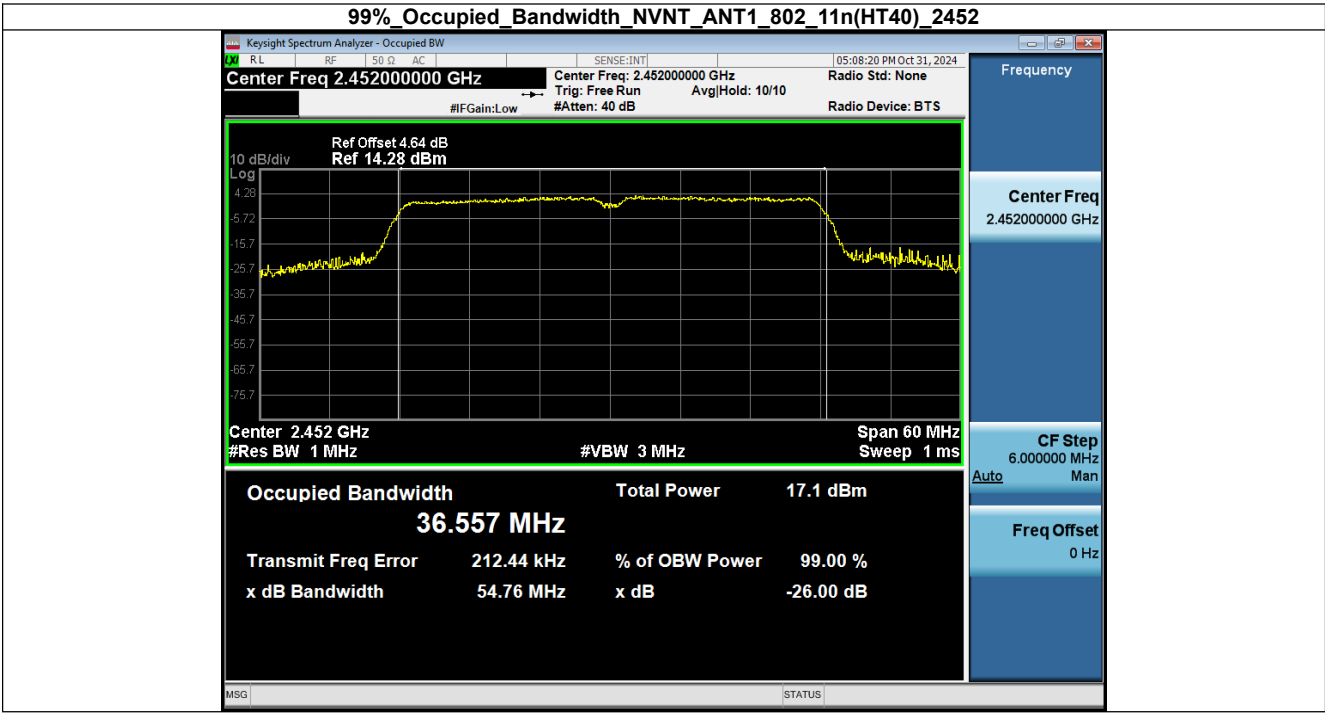


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



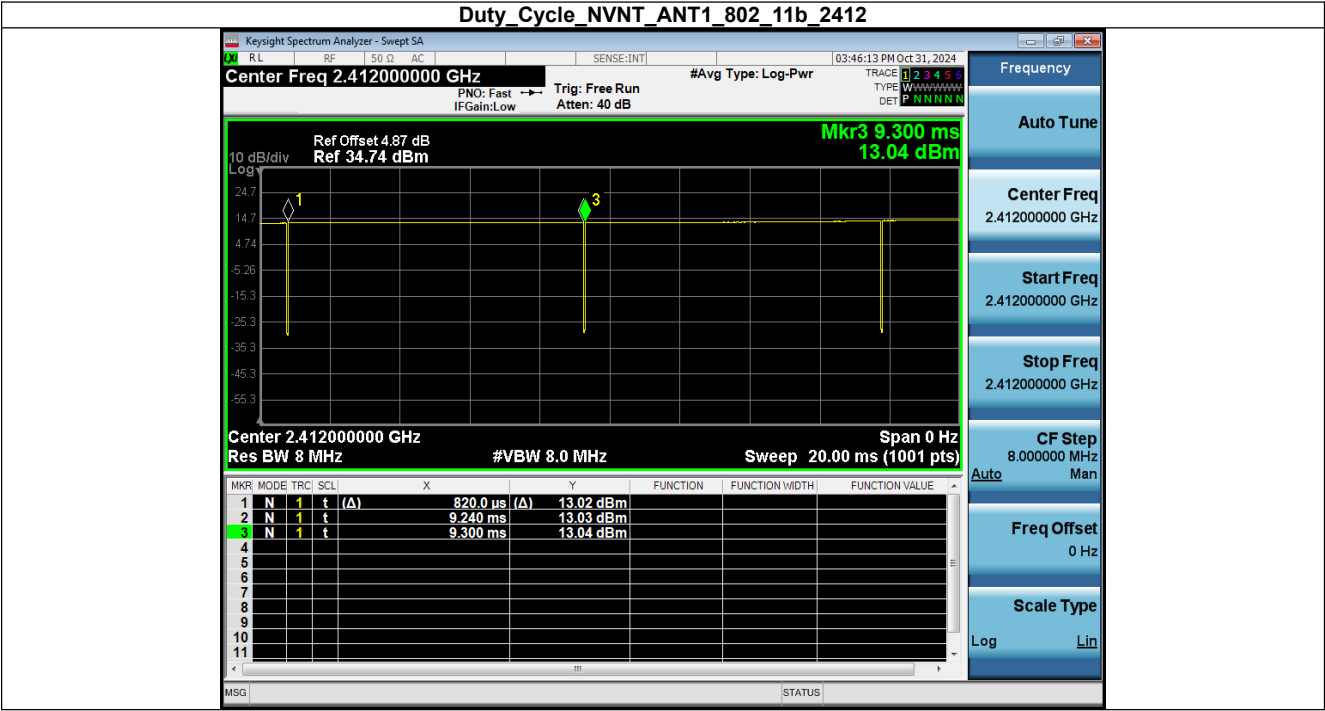




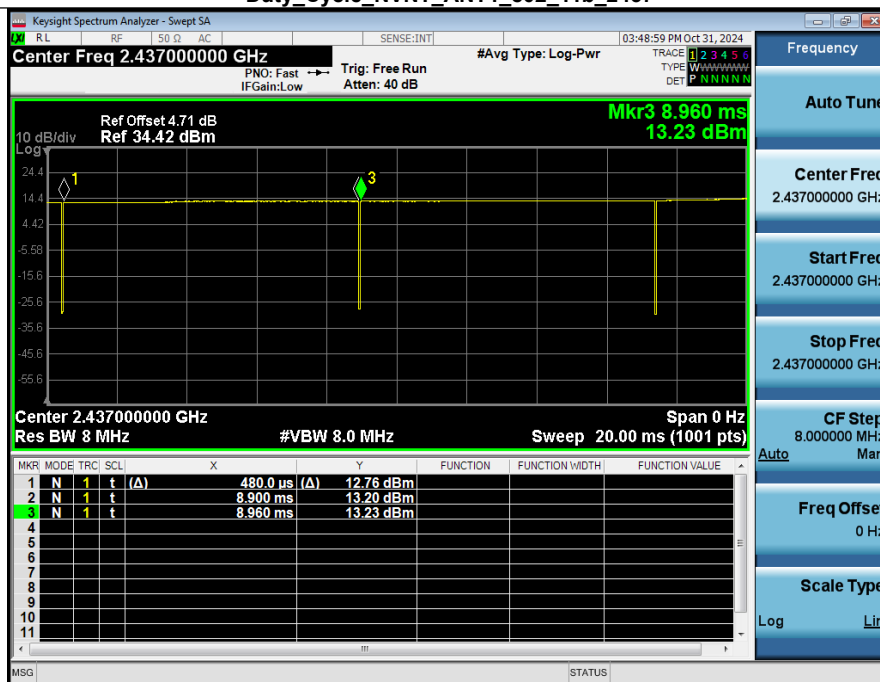


3. Duty Cycle

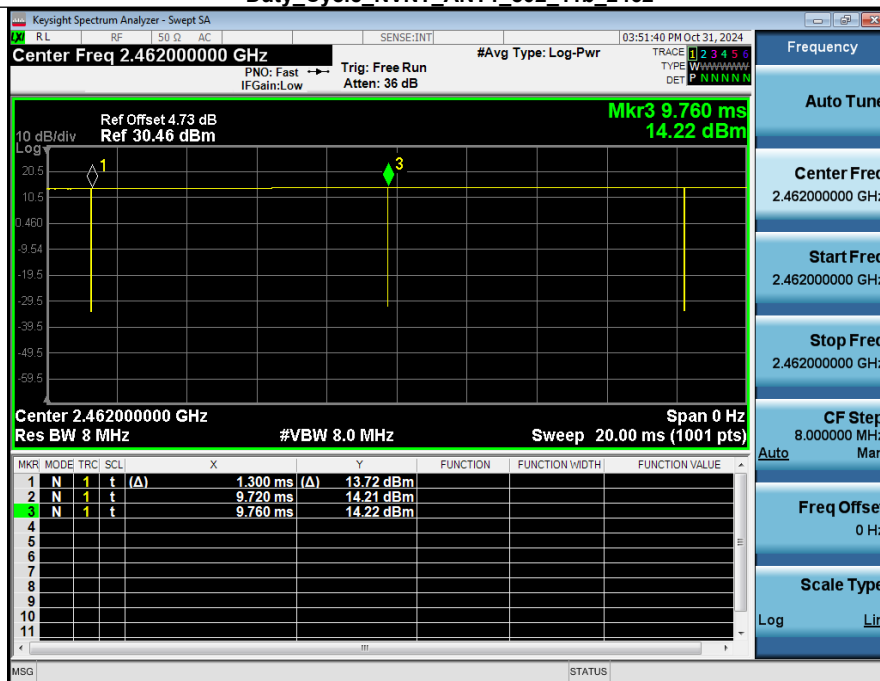
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	98.39	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	98.39	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



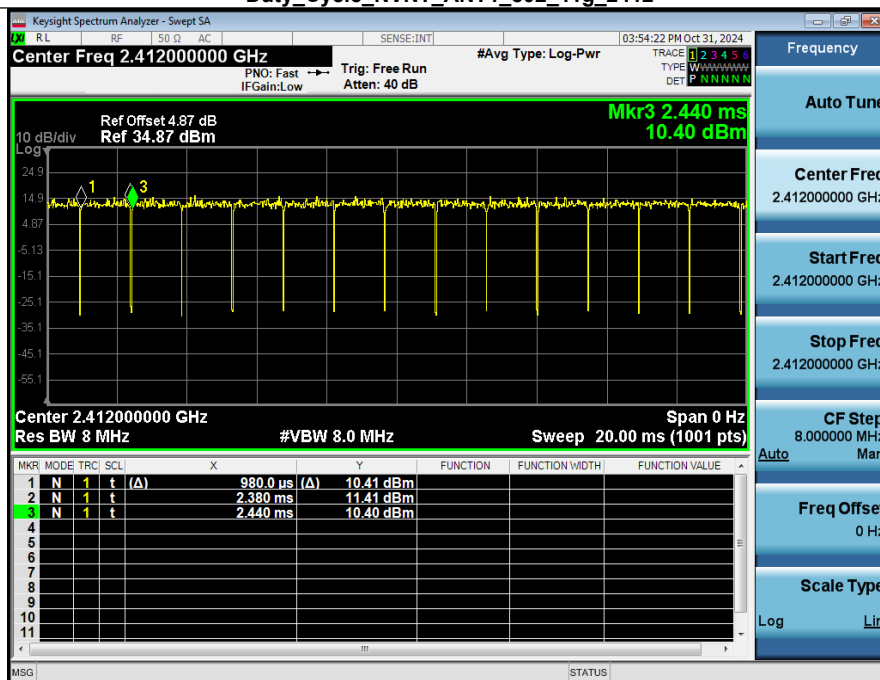
Duty Cycle NVNT_ANT1_802_11b_2437



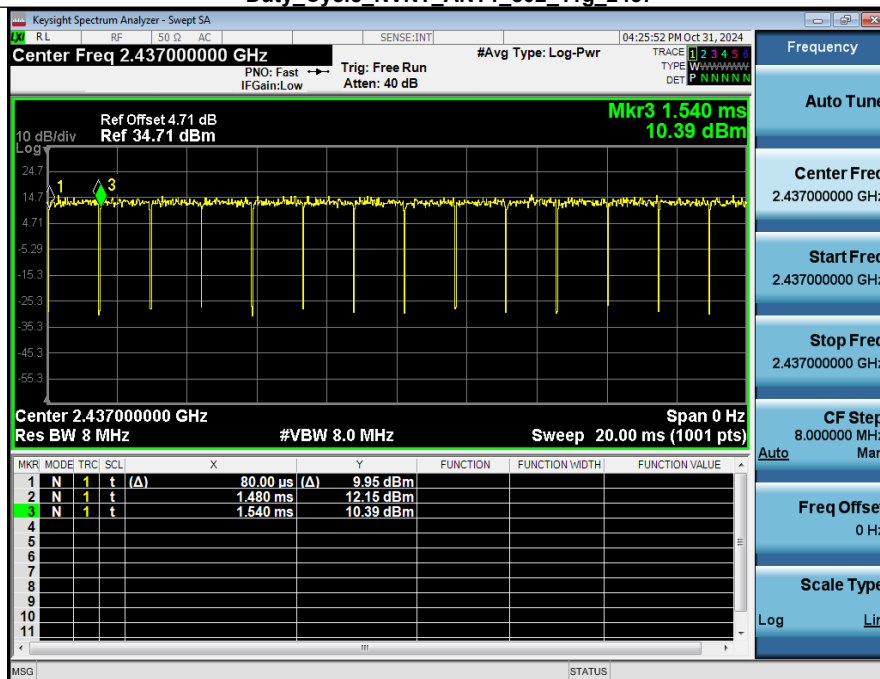
Duty Cycle NVNT_ANT1_802_11b_2462



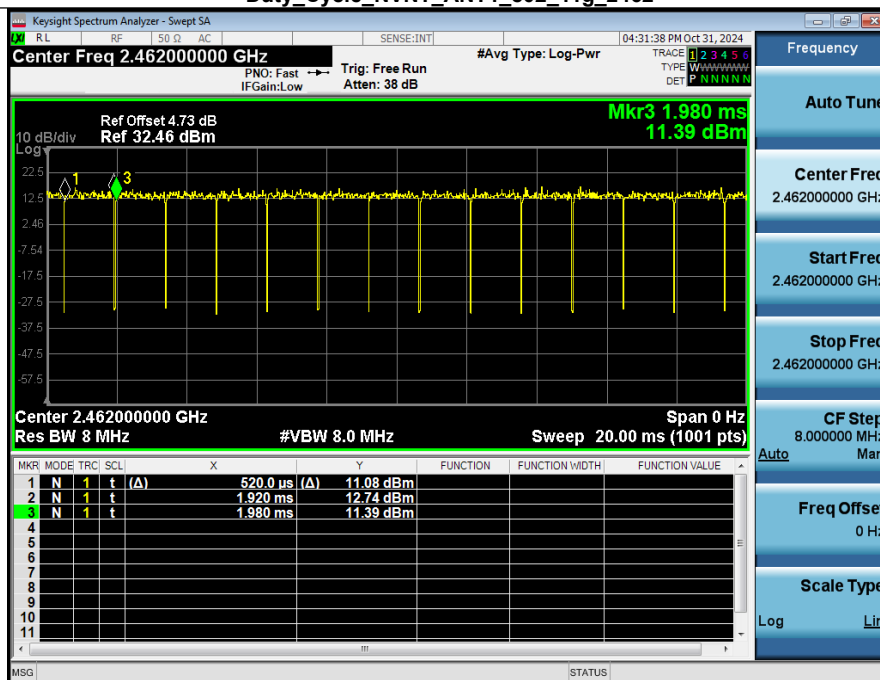
Duty Cycle NVNT_ANT1_802_11g_2412



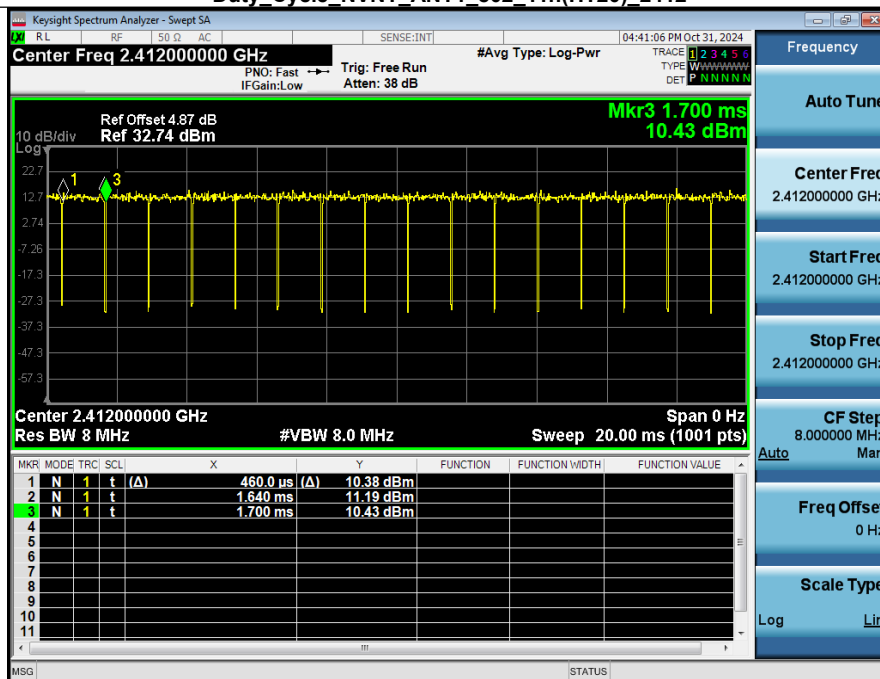
Duty Cycle NVNT_ANT1_802_11g_2437



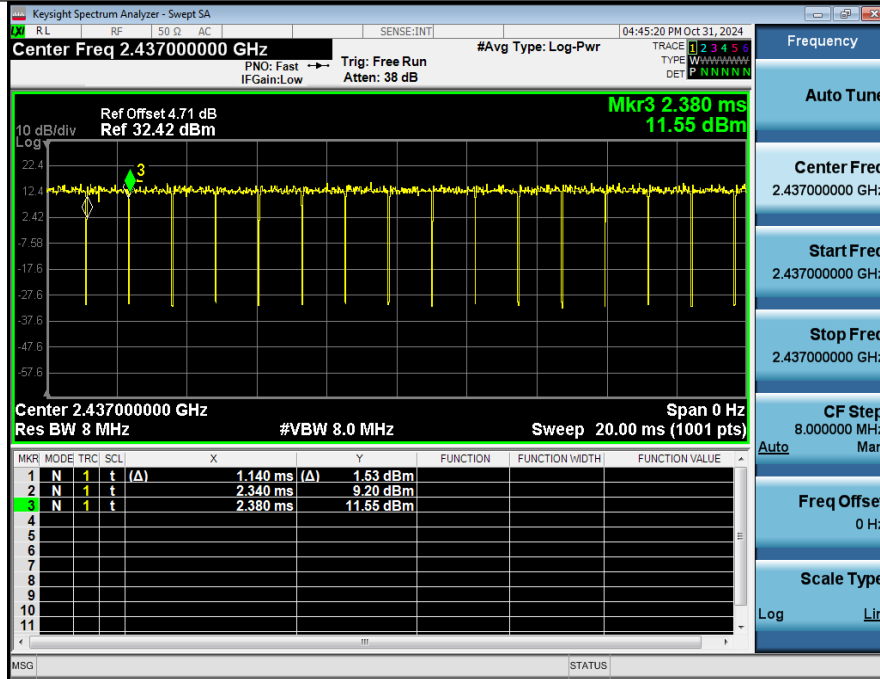
Duty Cycle NVNT_ANT1_802_11g_2462



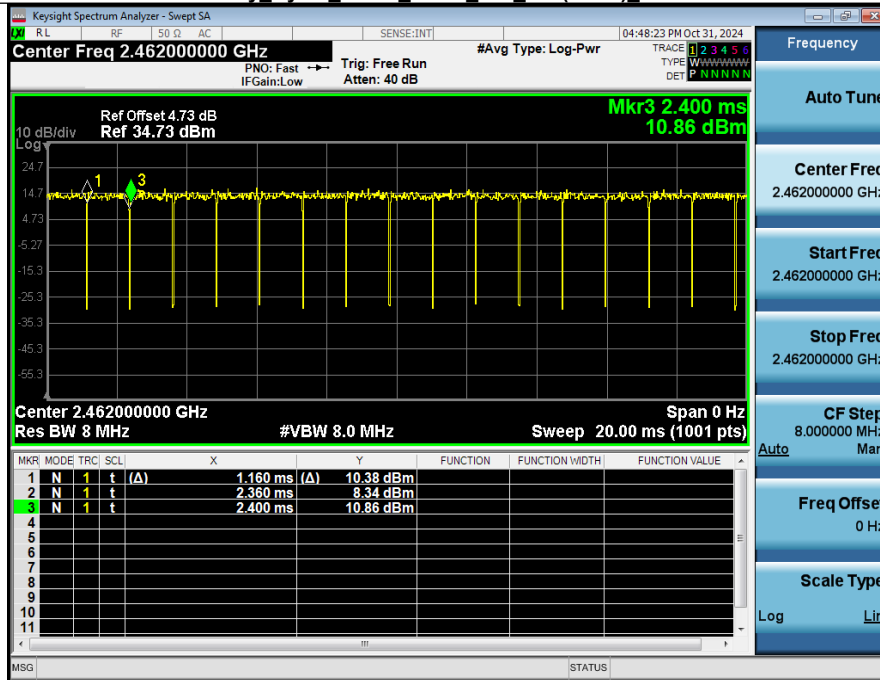
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



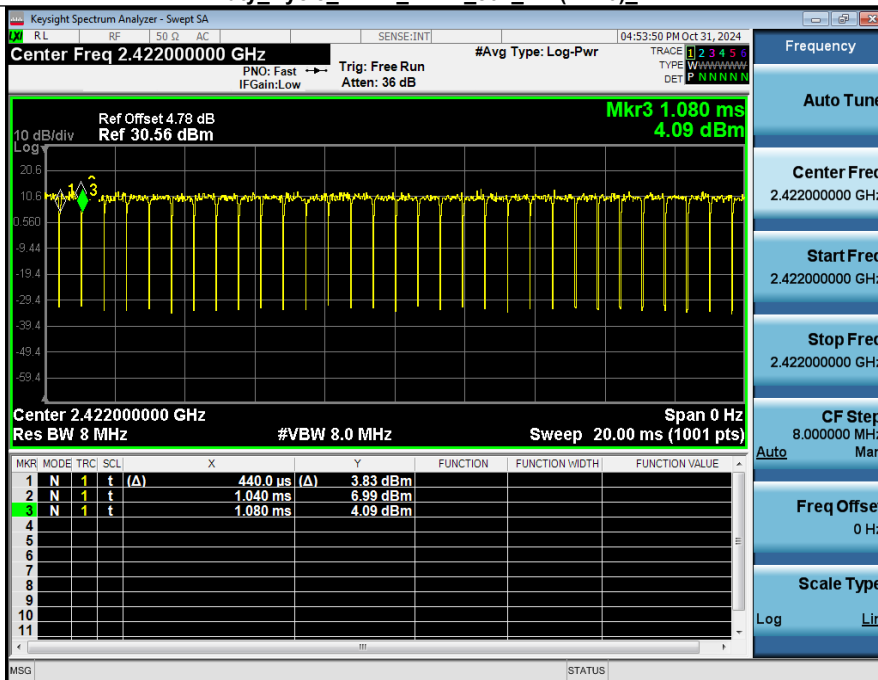
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



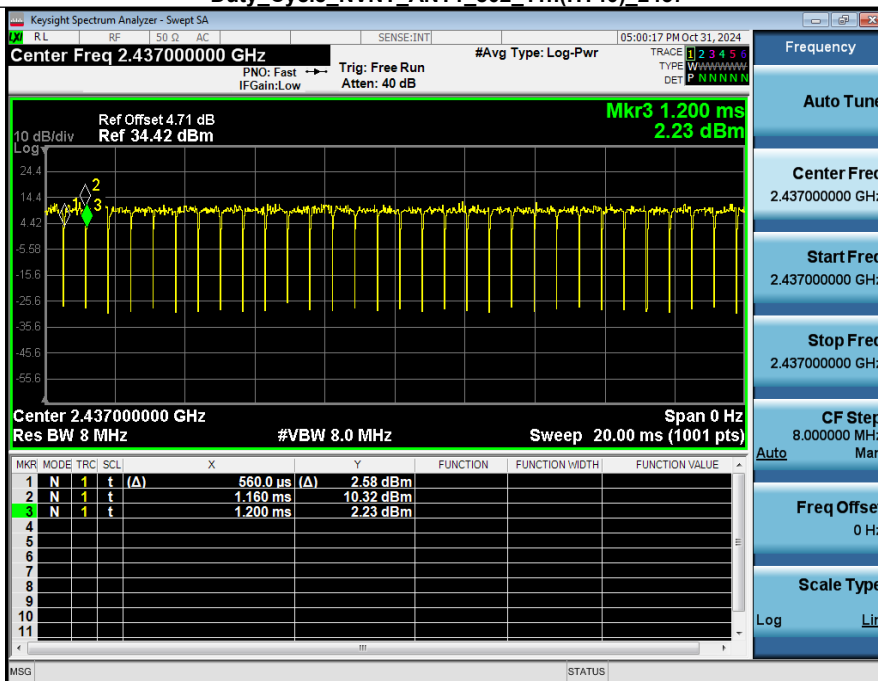
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



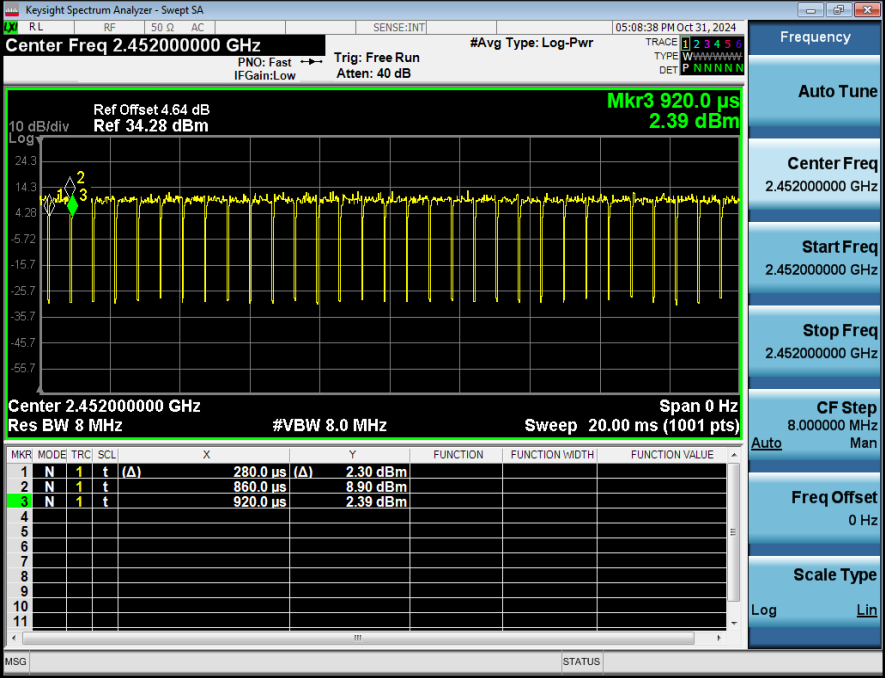
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-3.41	-10.00	-13.41	8	Pass
NVNT	ANT1	802.11b	2437.00	-3.41	-10.00	-13.41	8	Pass
NVNT	ANT1	802.11b	2462.00	-2.66	-10.00	-12.66	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.17	-10.00	-17.17	8	Pass
NVNT	ANT1	802.11g	2437.00	-7.51	-10.00	-17.51	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.07	-10.00	-15.07	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.13	-10.00	-17.13	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-7.46	-10.00	-17.46	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-6.00	-10.00	-16.00	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.53	-10.00	-19.53	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-9.19	-10.00	-19.19	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-10.49	-10.00	-20.49	8	Pass



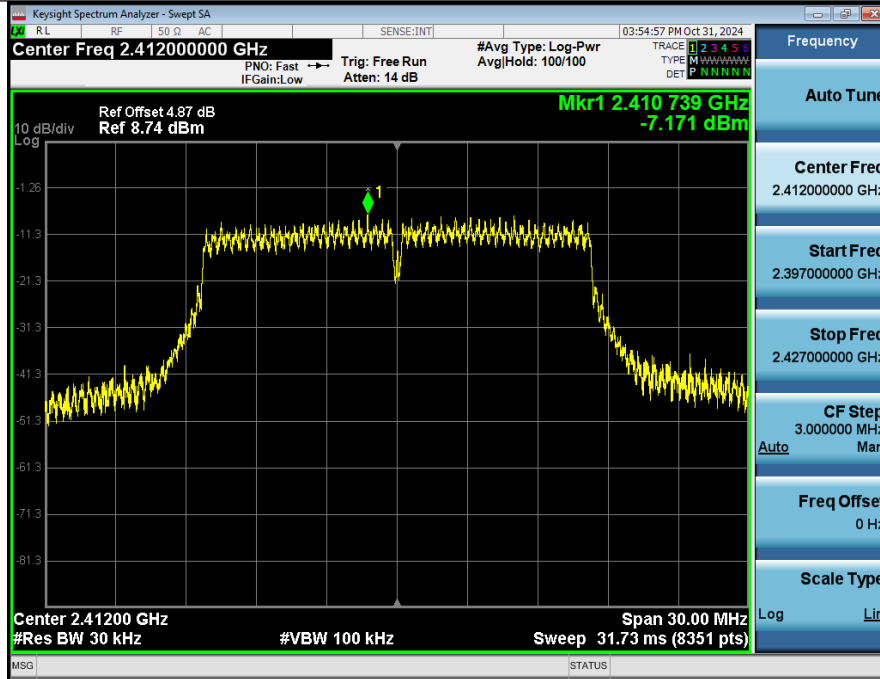
Power Spectral Density NVNT_ANT1_802_11b_2437



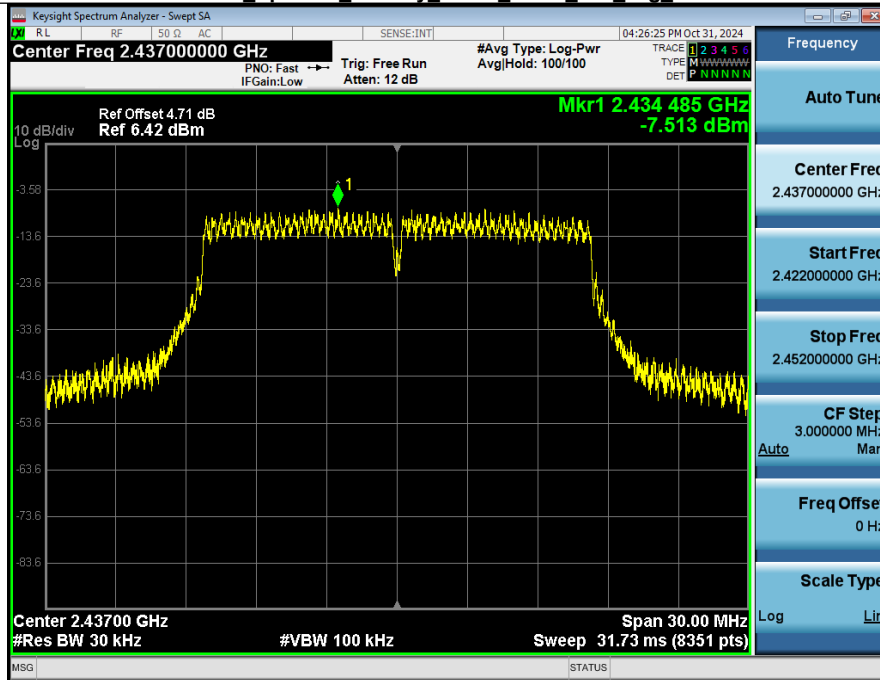
Power Spectral Density NVNT_ANT1_802_11b_2462



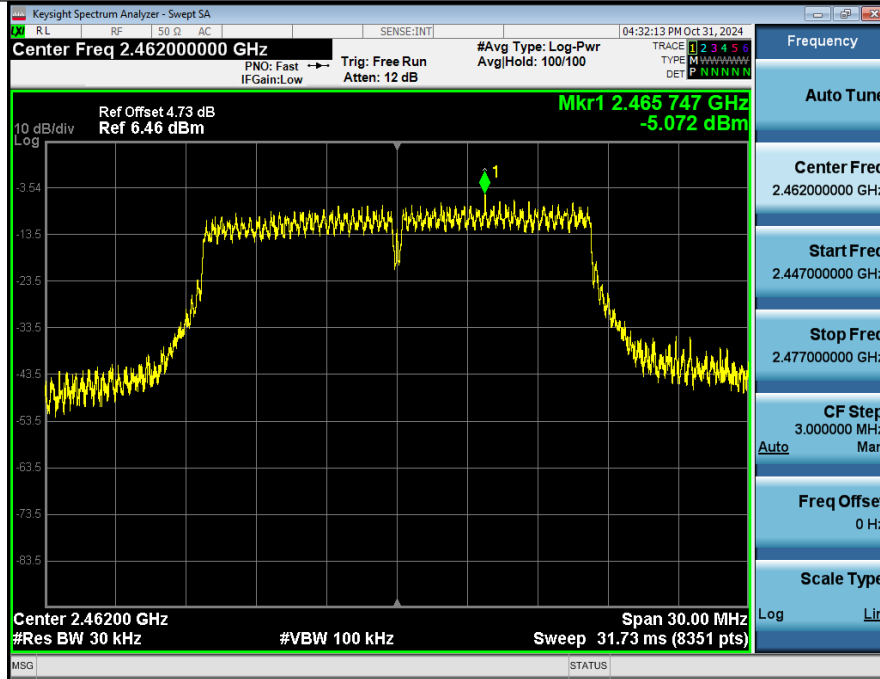
Power Spectral Density NVNT_ANT1_802_11g_2412



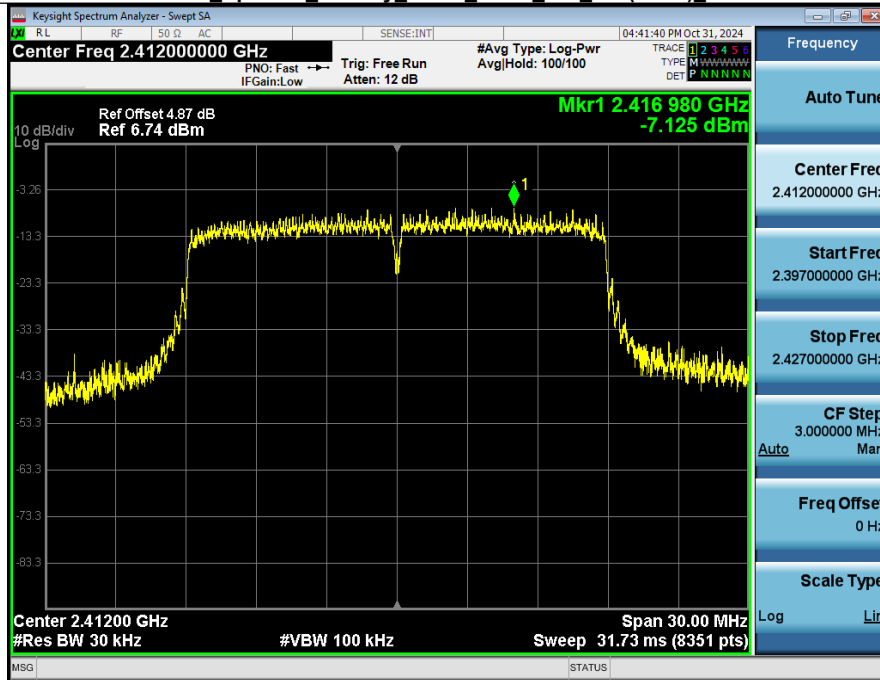
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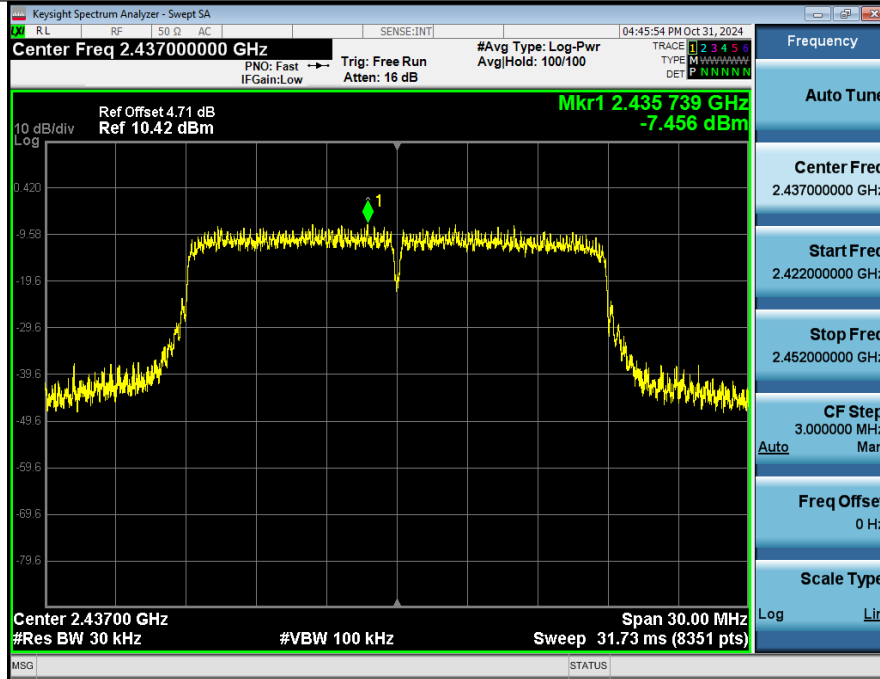
Power Spectral Density_NVNT_ANT1_802_11g_2462



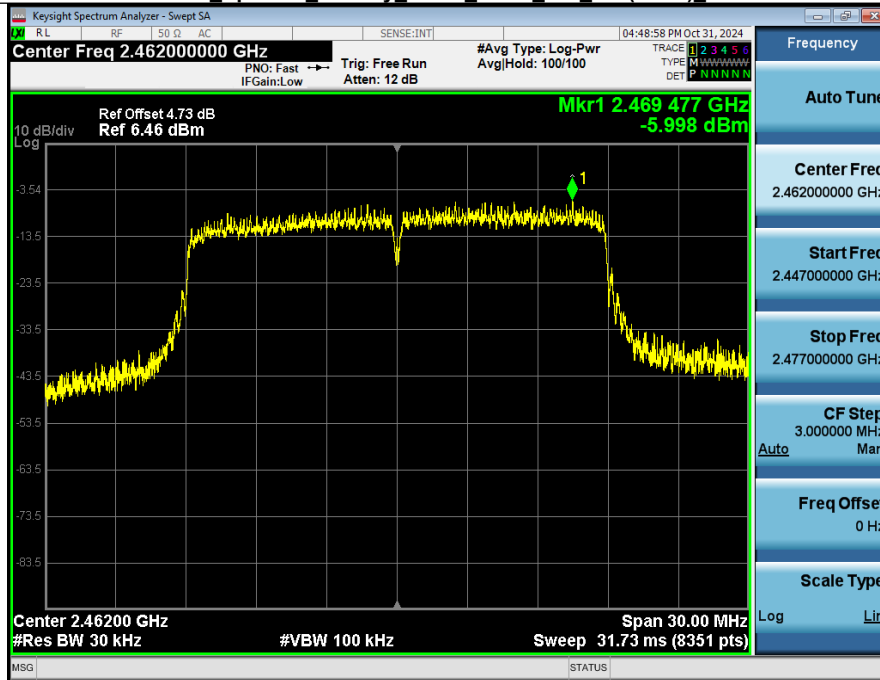
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



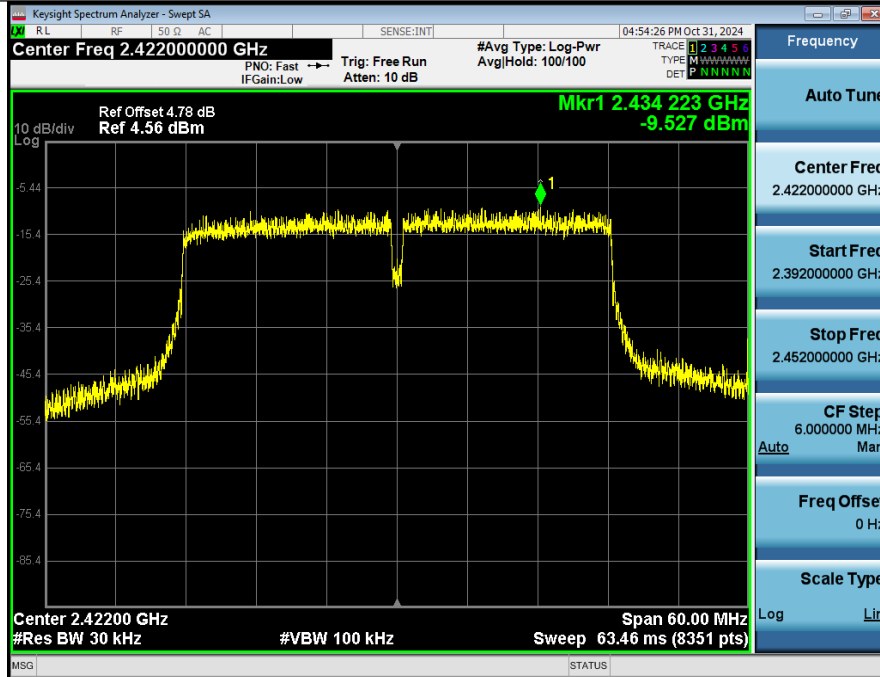
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



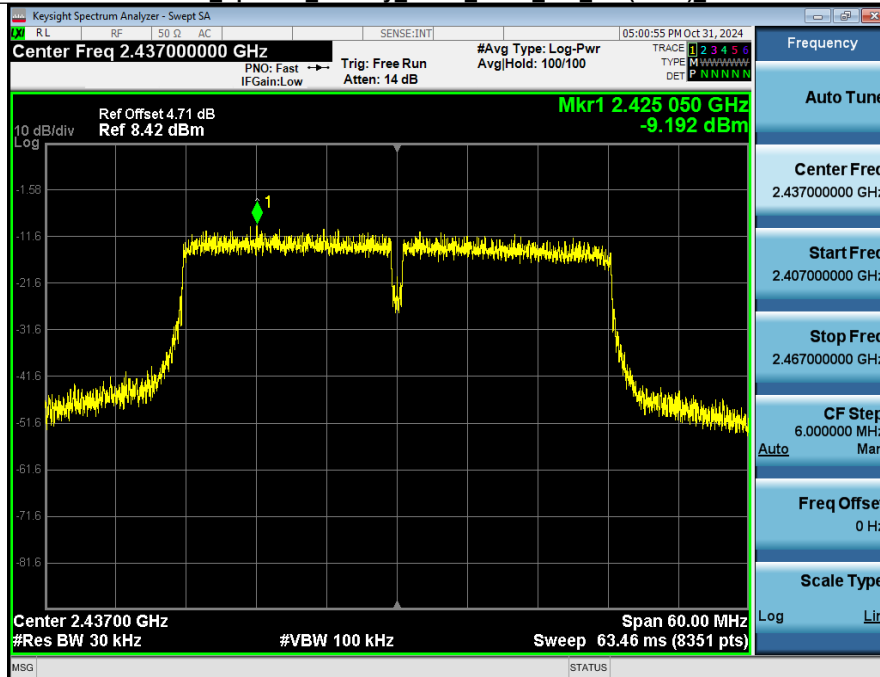
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



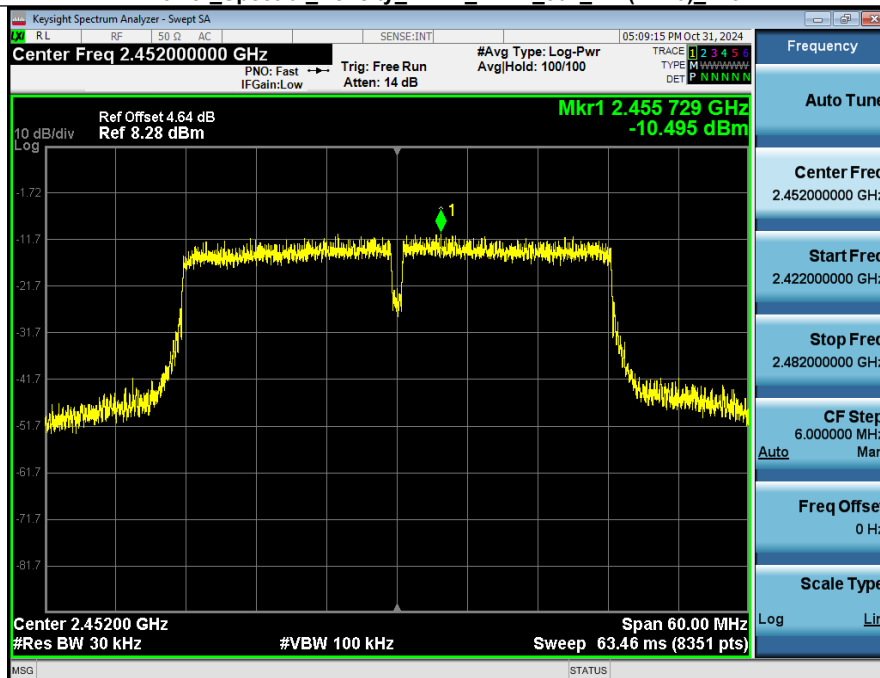
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437

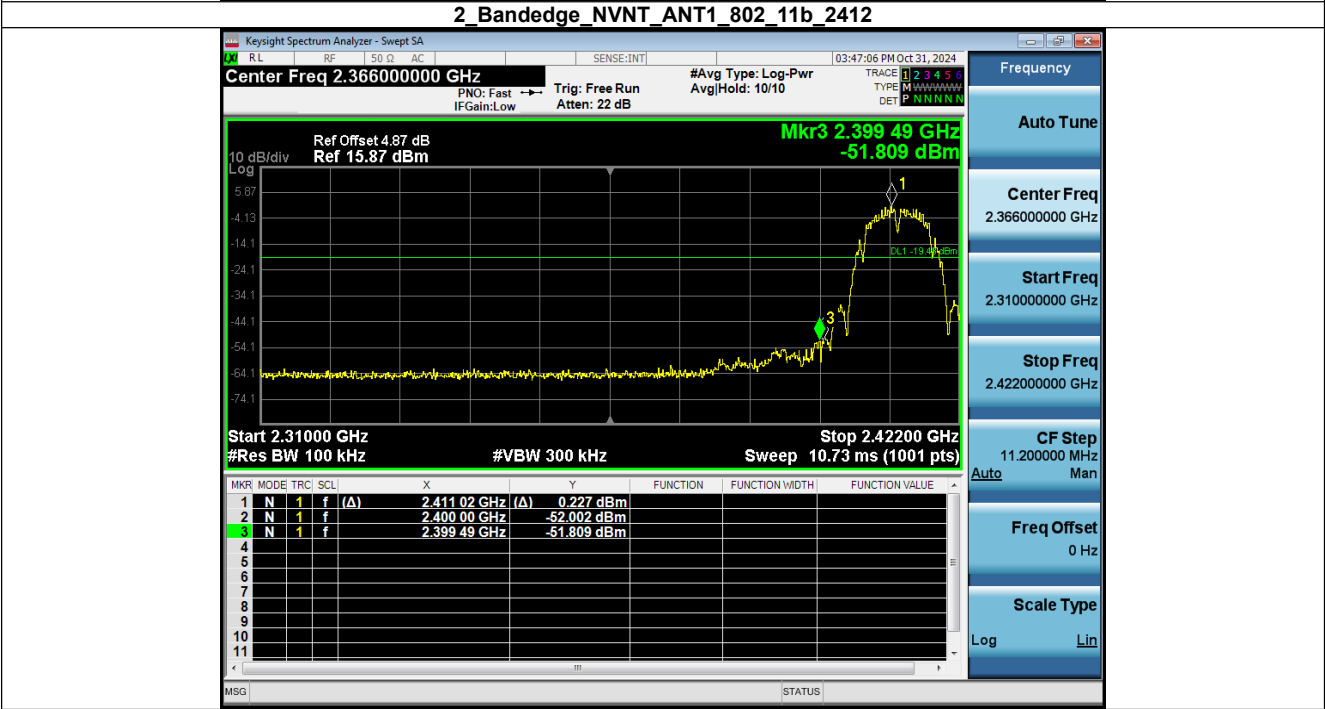


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	-51.809	-19.476	Pass
NVNT	ANT1	802.11b	2462.00	2484.640	-56.495	-18.764	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-33.364	-22.544	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-41.299	-21.626	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-33.921	-22.444	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	-38.707	-21.284	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-36.183	-24.723	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-41.350	-25.832	Pass



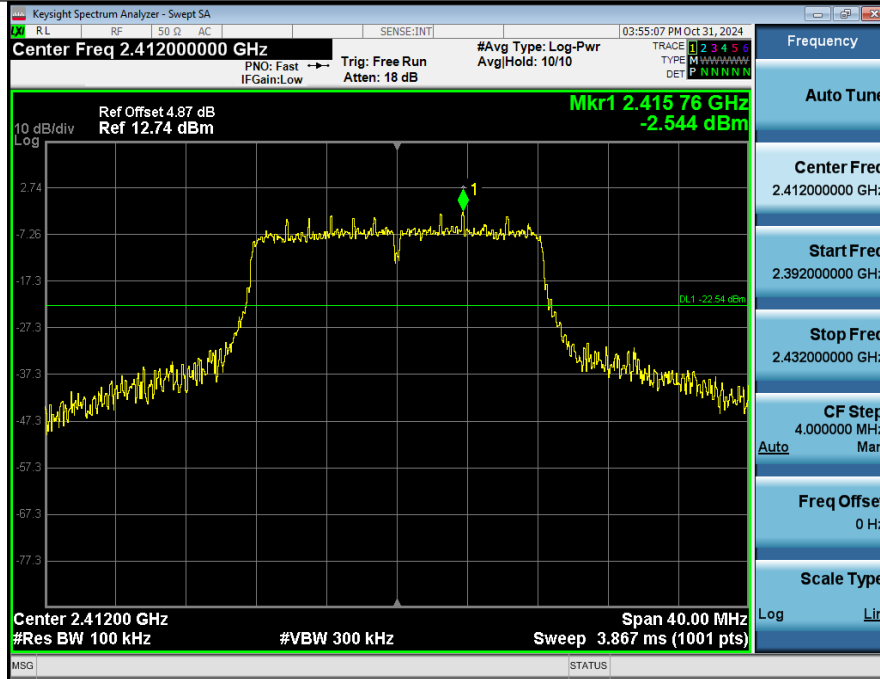
1 Reference Level_NVNT_ANT1_802_11b_2462



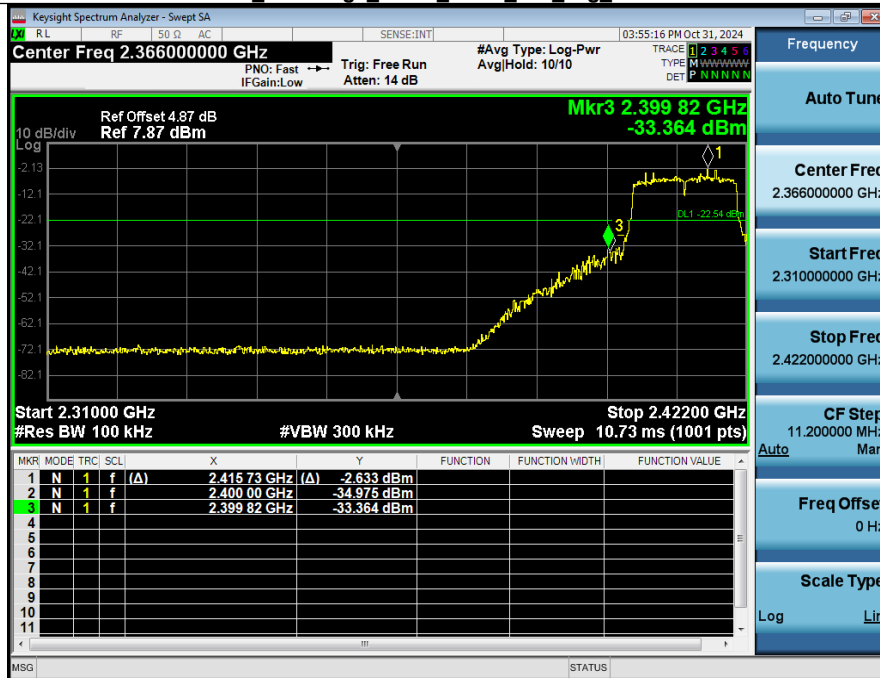
2 Bandedge_NVNT_ANT1_802_11b_2462



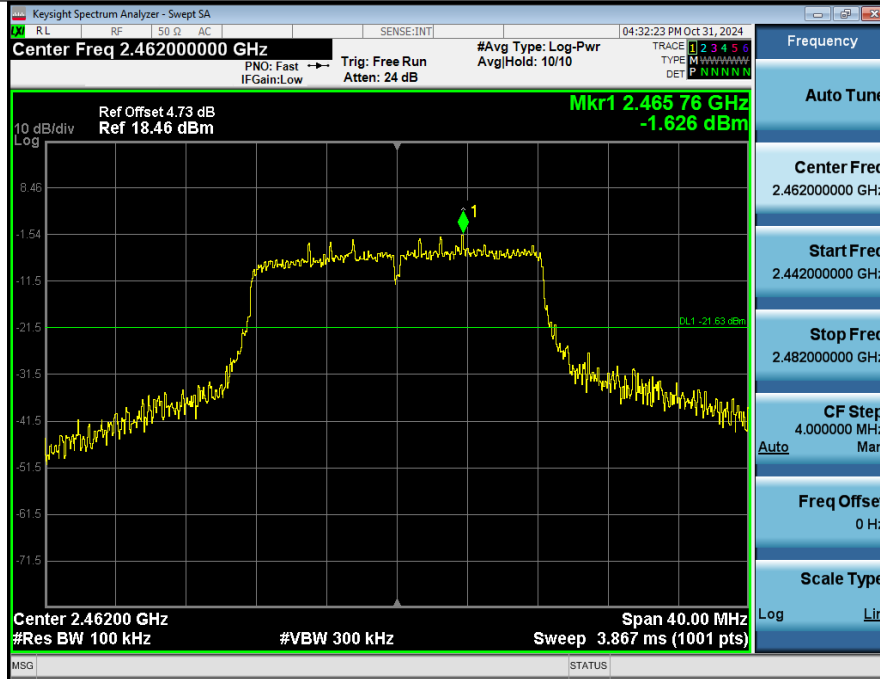
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2 Bandedge_NVNT_ANT1_802_11g_2412



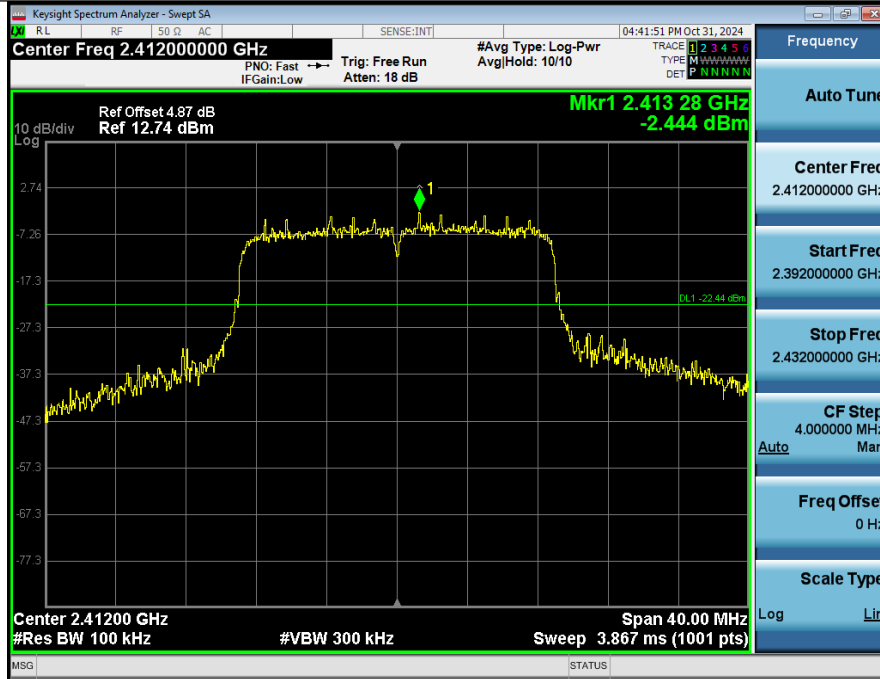
1 Reference Level_NVNT_ANT1_802_11g_2462



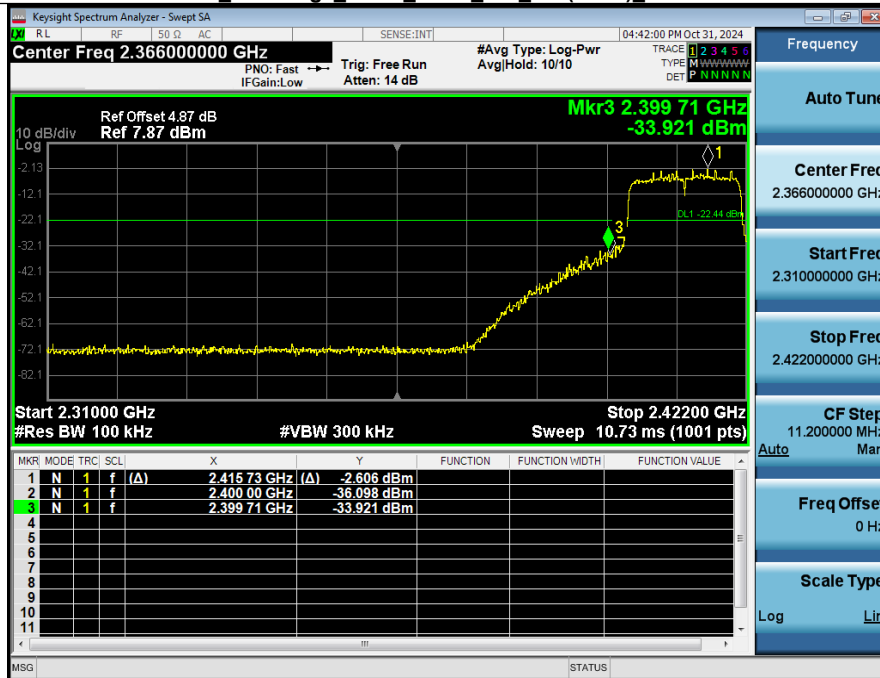
2 Bandedge_NVNT_ANT1_802_11g_2462



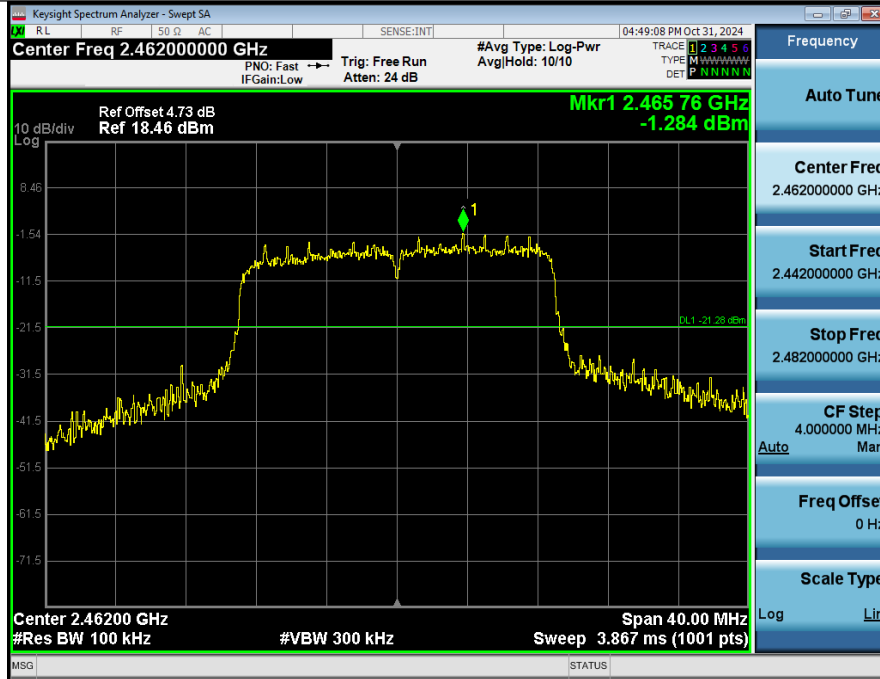
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



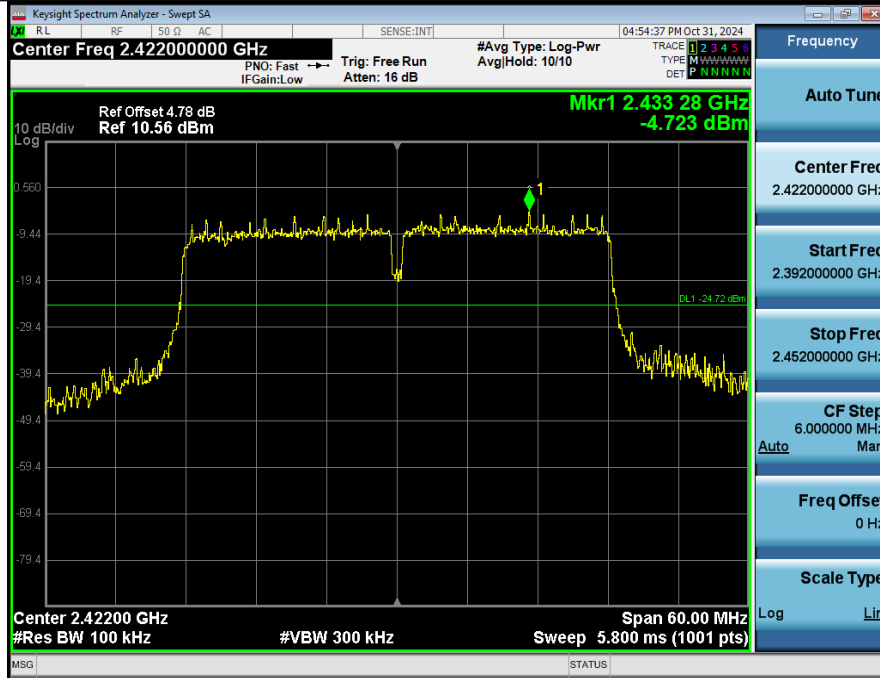
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



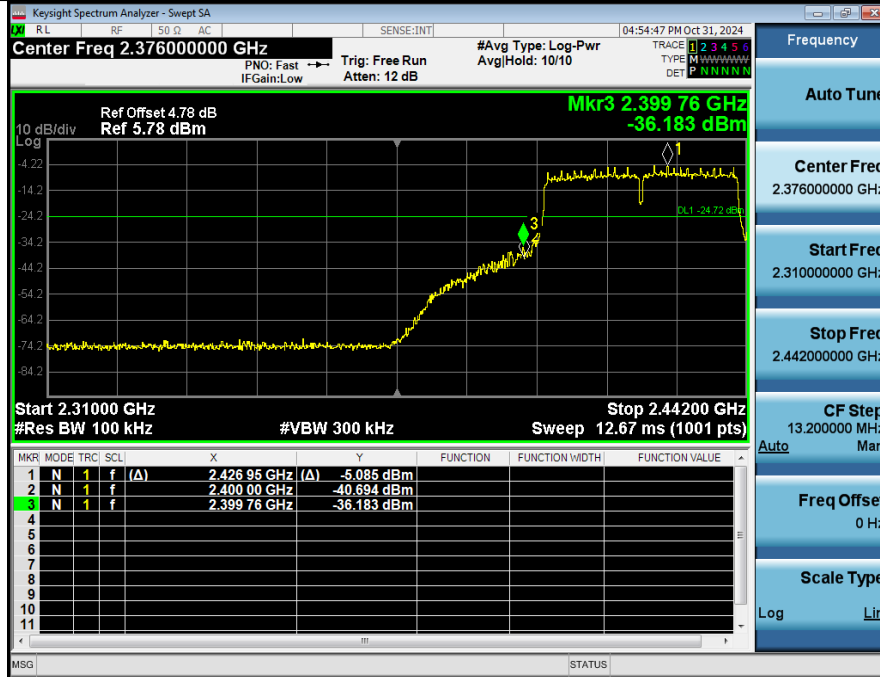
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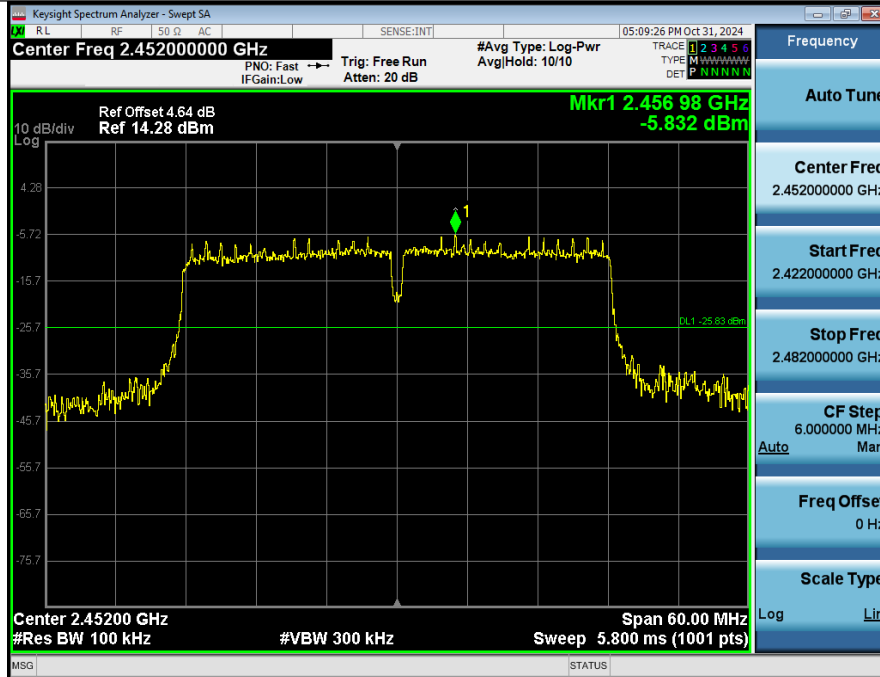
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

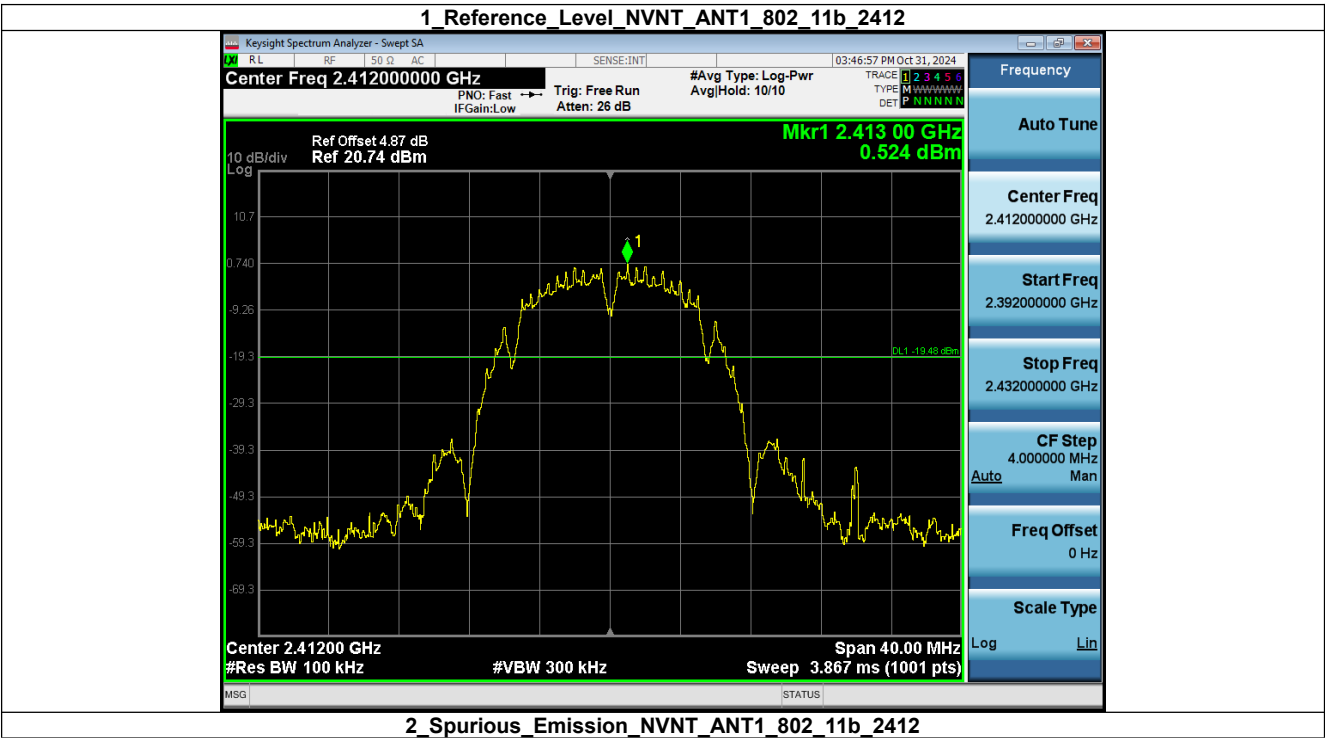


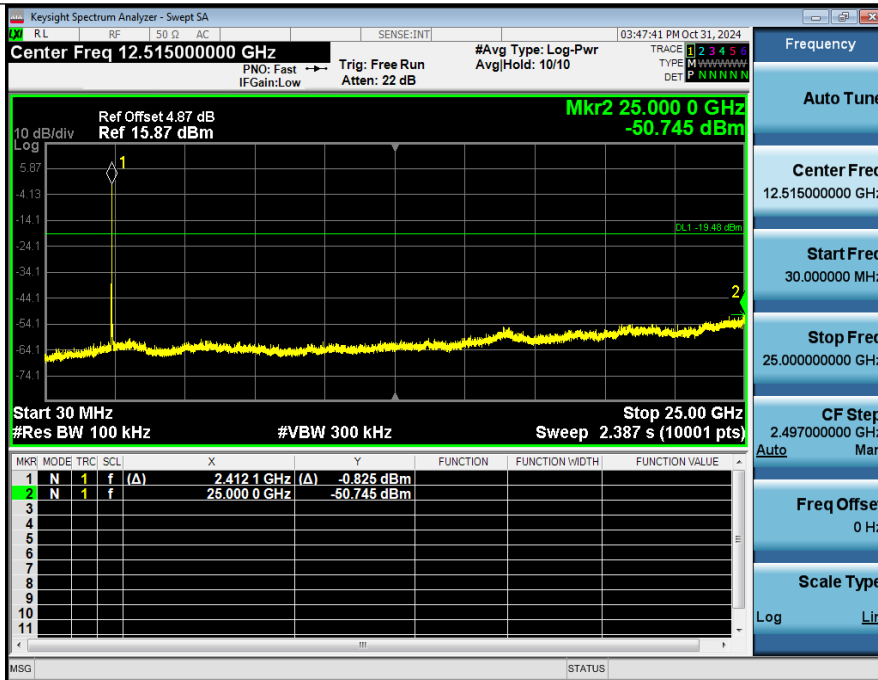
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



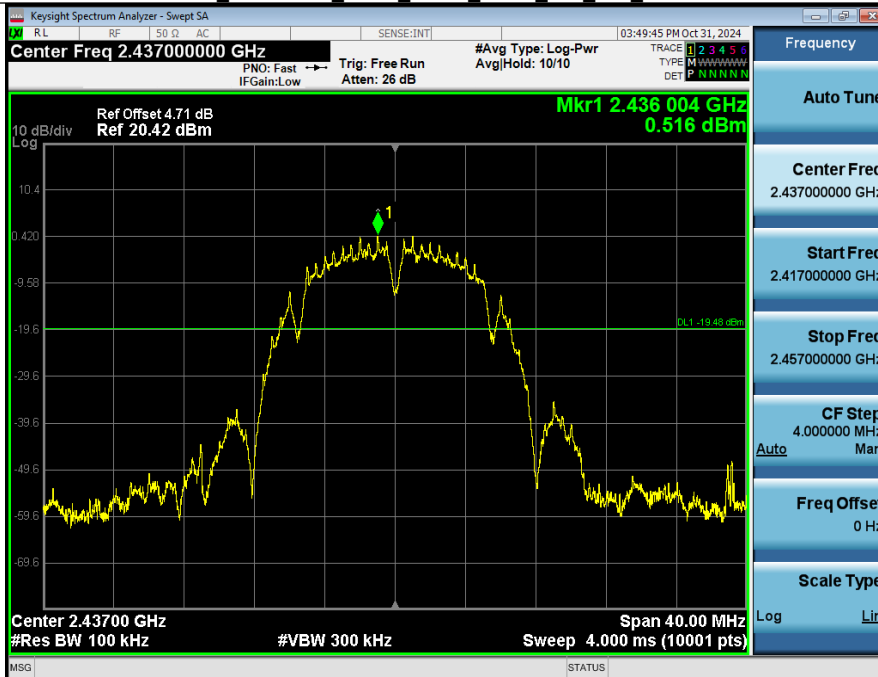
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	25000.000	-50.745	-19.476	Pass
NVNT	ANT1	802.11b	2437.00	24902.617	-51.713	-19.484	Pass
NVNT	ANT1	802.11b	2462.00	24987.515	-55.169	-18.764	Pass
NVNT	ANT1	802.11g	2412.00	24957.551	-59.260	-22.544	Pass
NVNT	ANT1	802.11g	2437.00	711.681	-38.728	-23.127	Pass
NVNT	ANT1	802.11g	2462.00	24992.509	-53.906	-21.626	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	719.172	-49.429	-22.444	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	721.669	-30.938	-22.578	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24895.126	-52.680	-21.284	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	706.687	-46.746	-24.723	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	25000.000	-57.004	-25.102	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24925.090	-56.570	-25.832	Pass

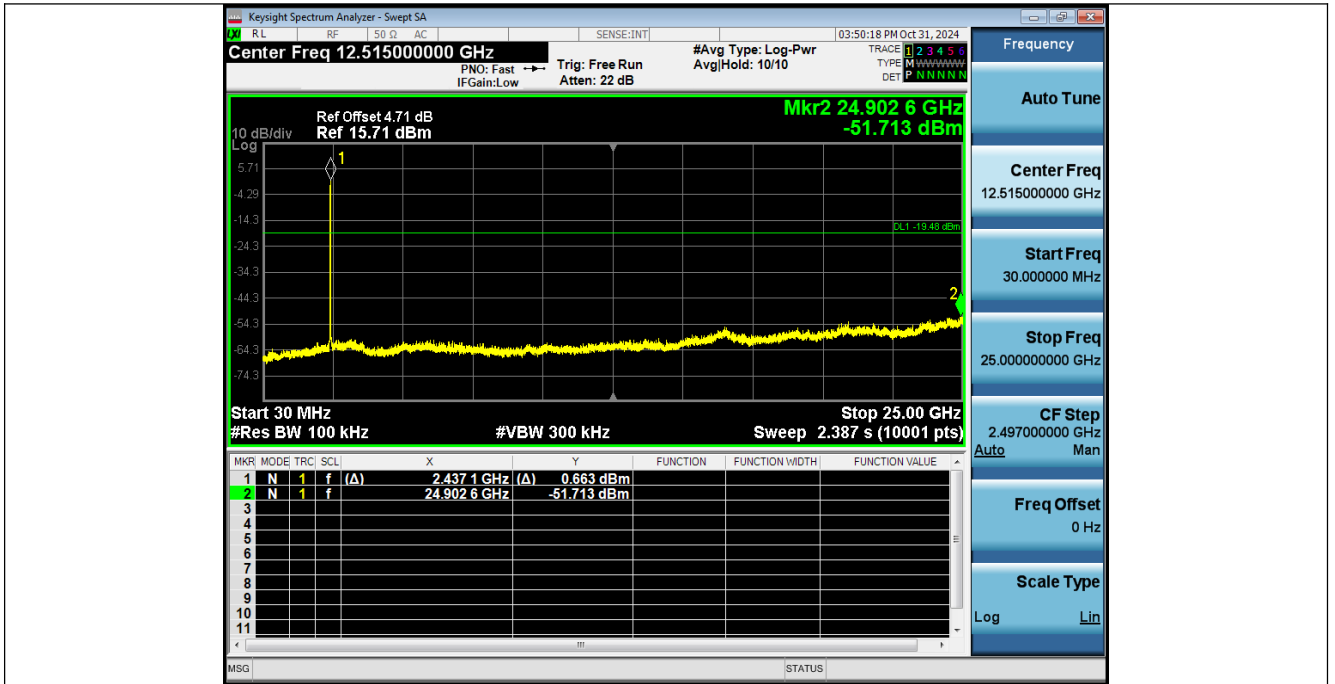




1 Reference Level NVNT_ANT1_802_11b_2437



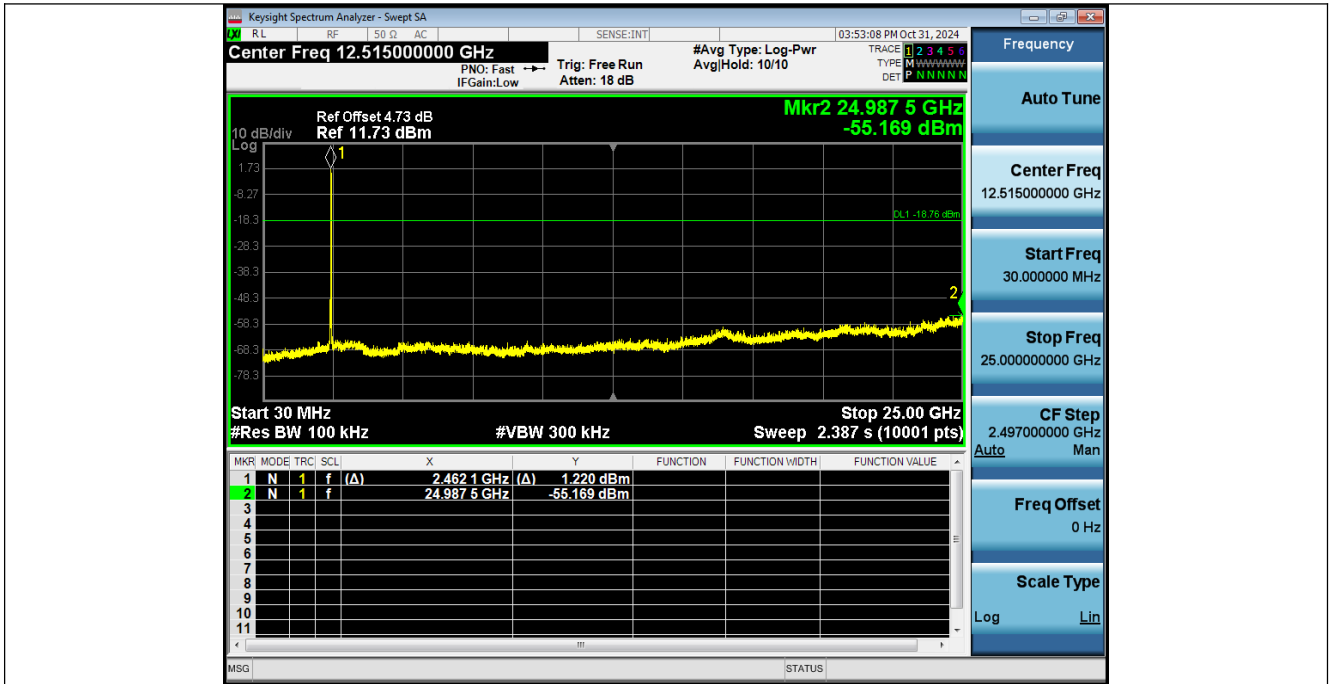
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



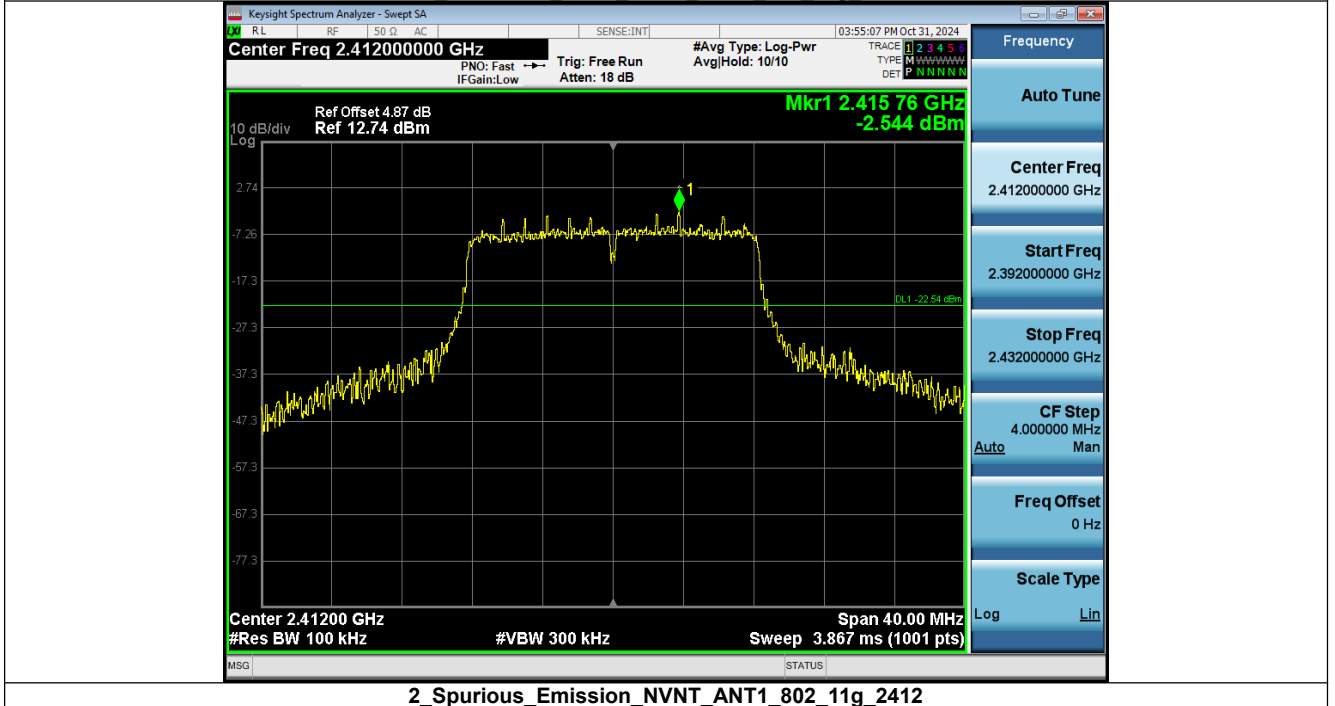
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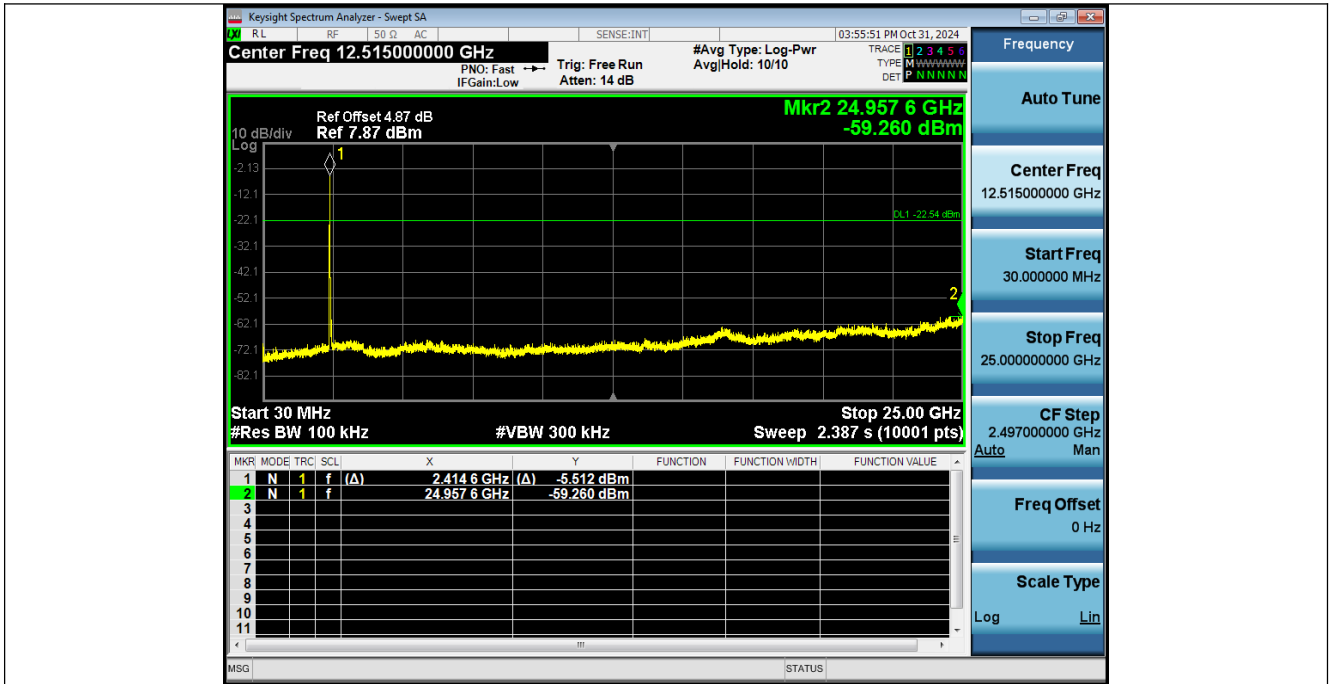
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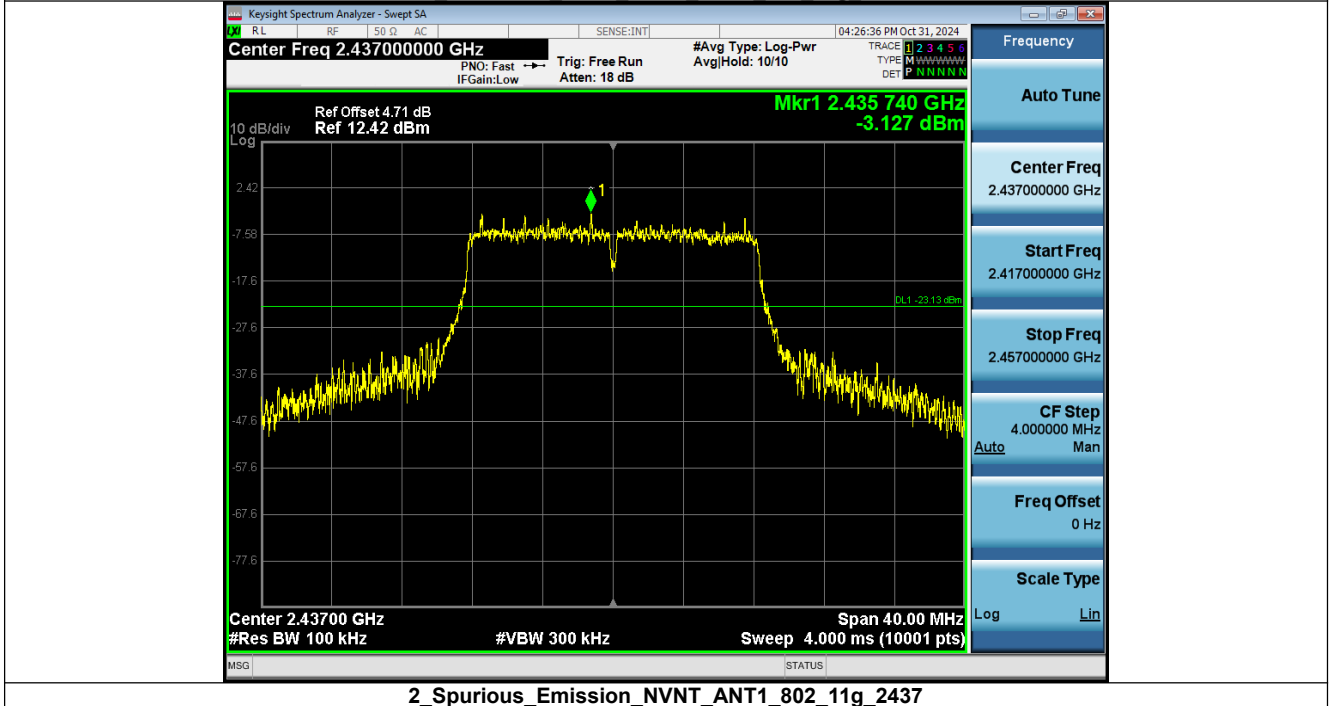
1 Reference Level NVNT_ANT1_802_11g_2412



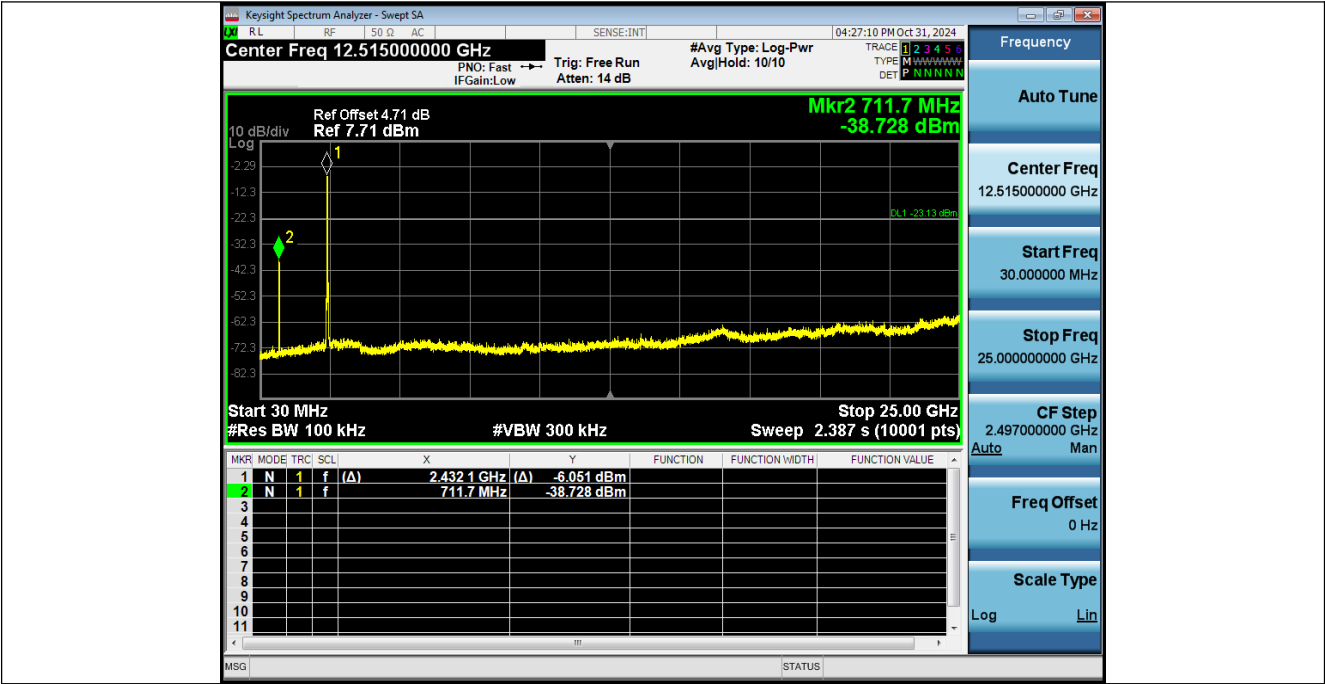
2 Spurious_Emission_NVNT_ANT1_802_11g_2412



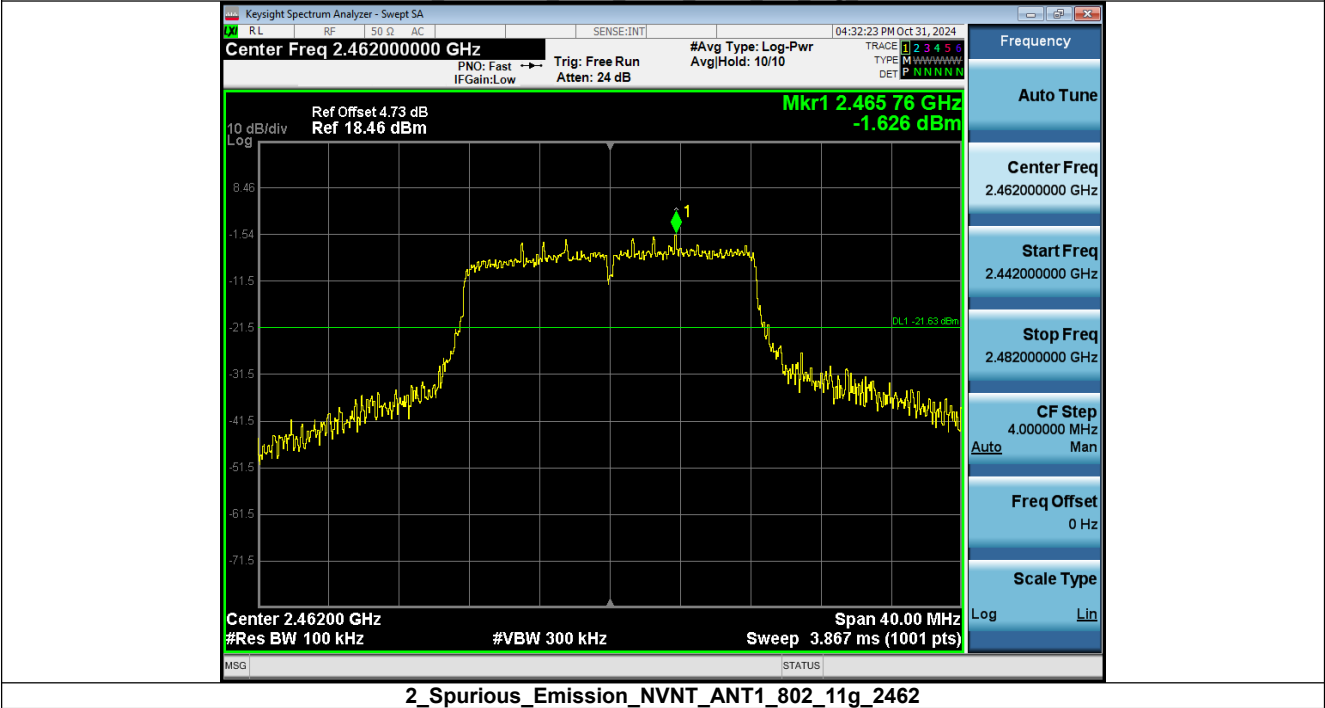
1 Reference Level NVNT_ANT1_802_11g_2437



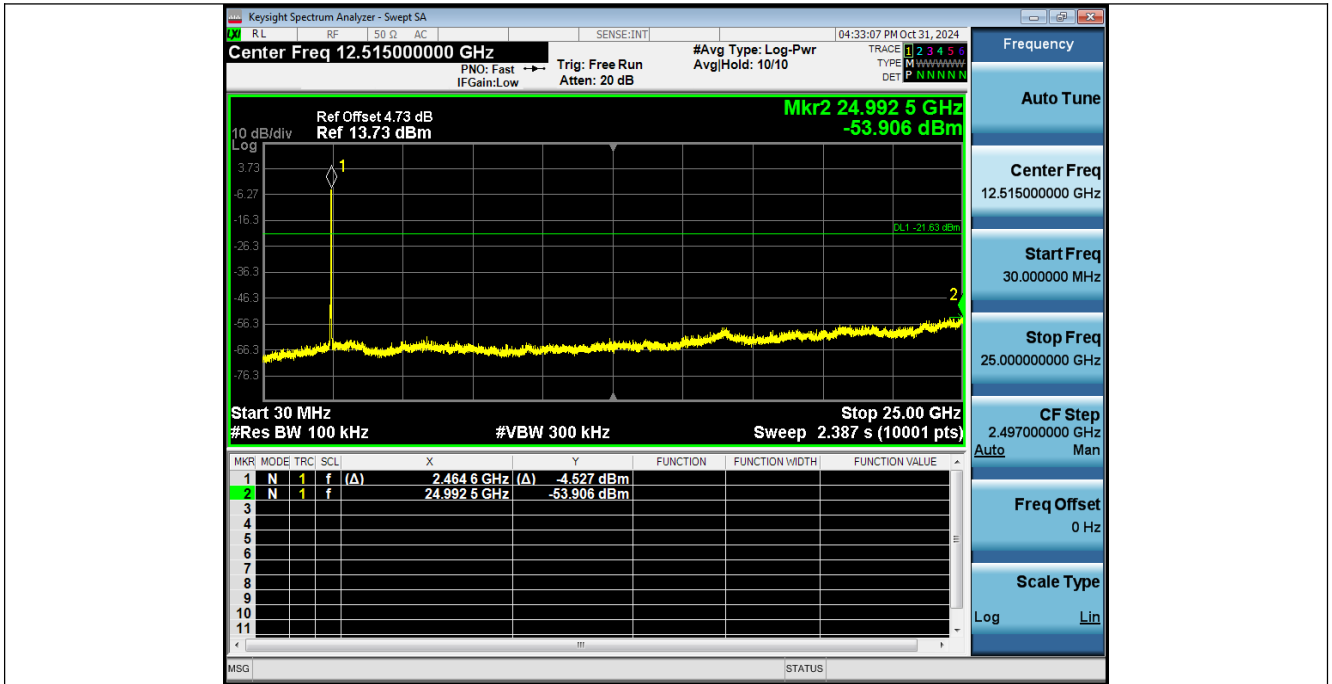
2 Spurious Emission NVNT_ANT1_802_11g_2437



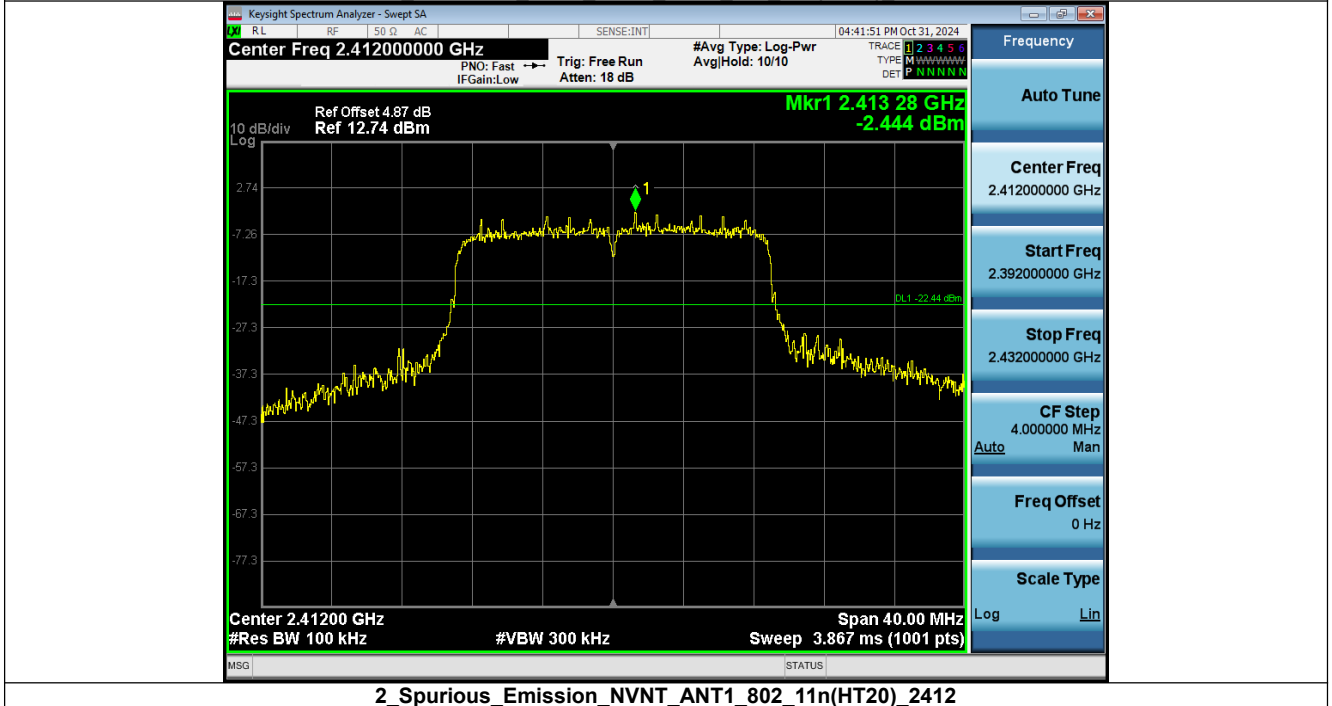
1 Reference Level NVNT_ANT1_802_11g_2462



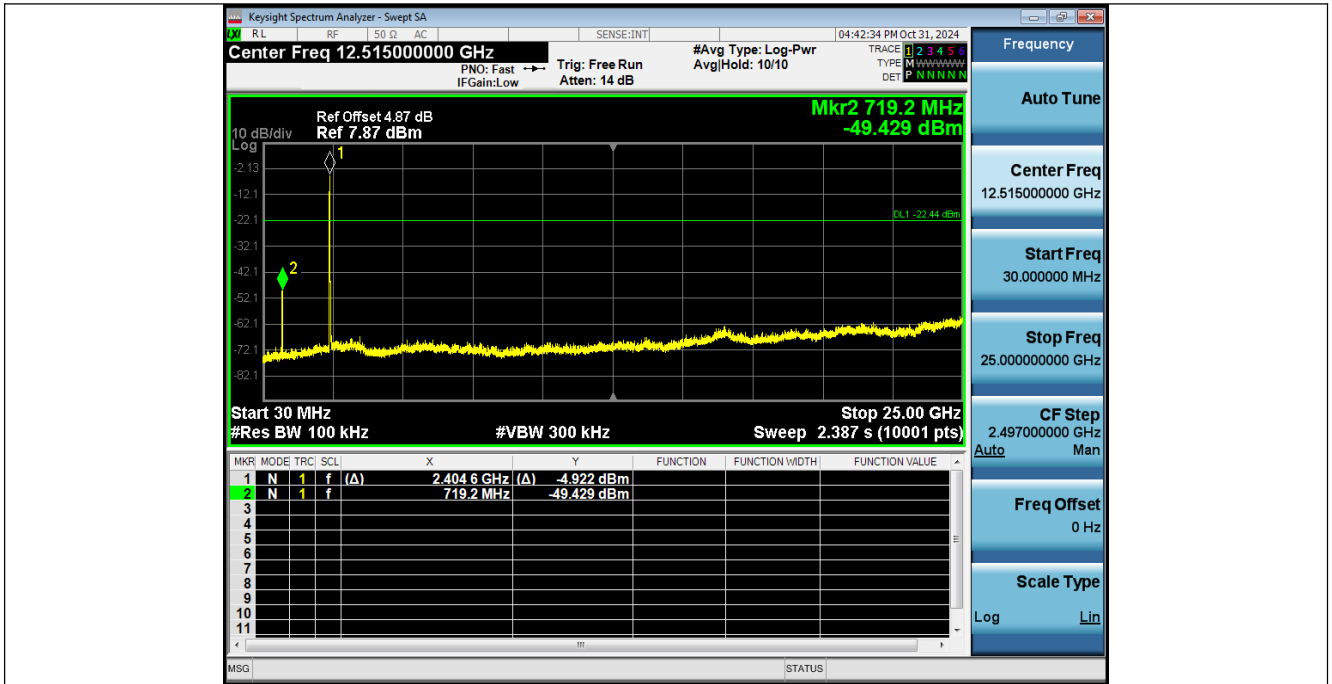
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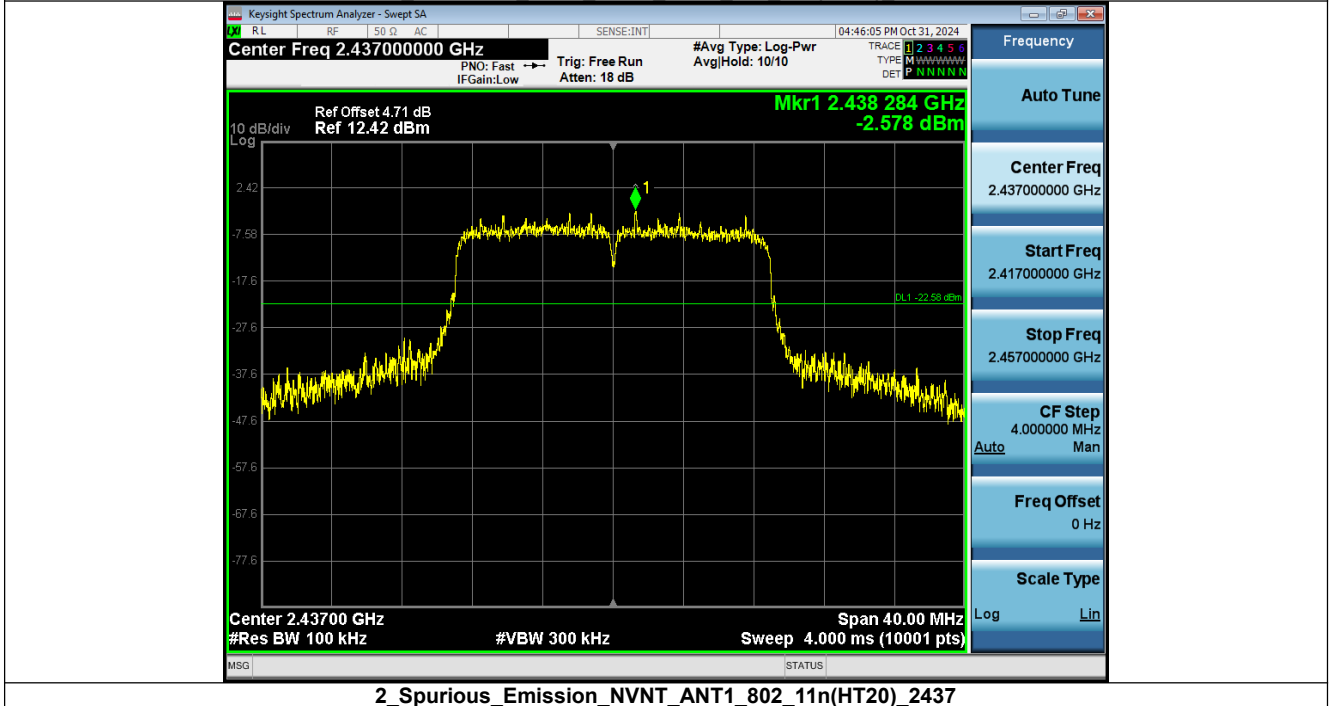
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



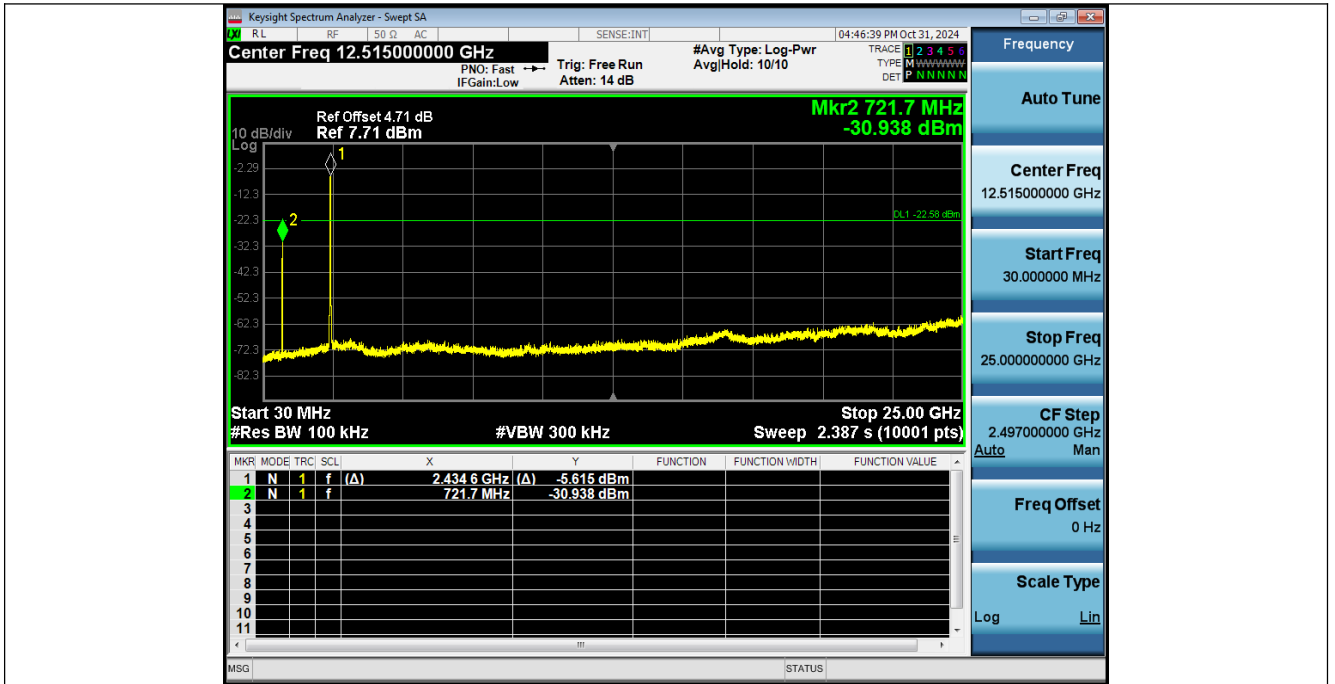
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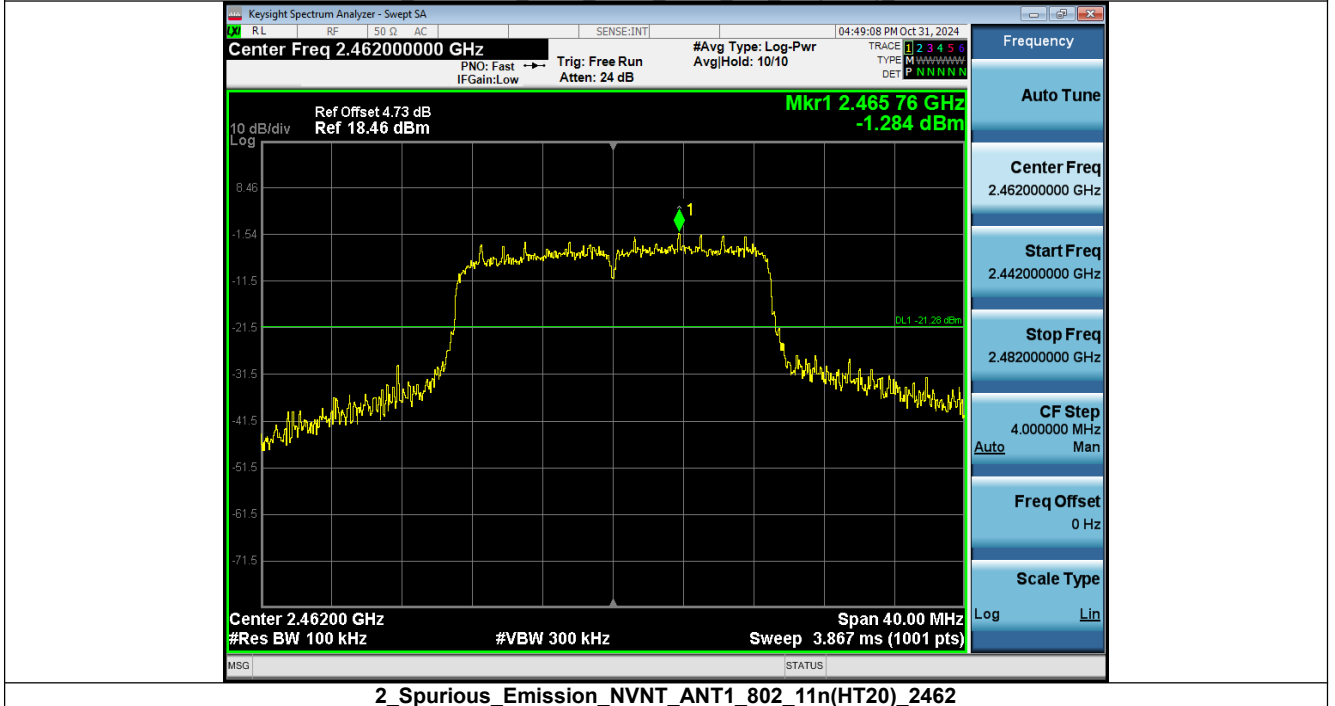
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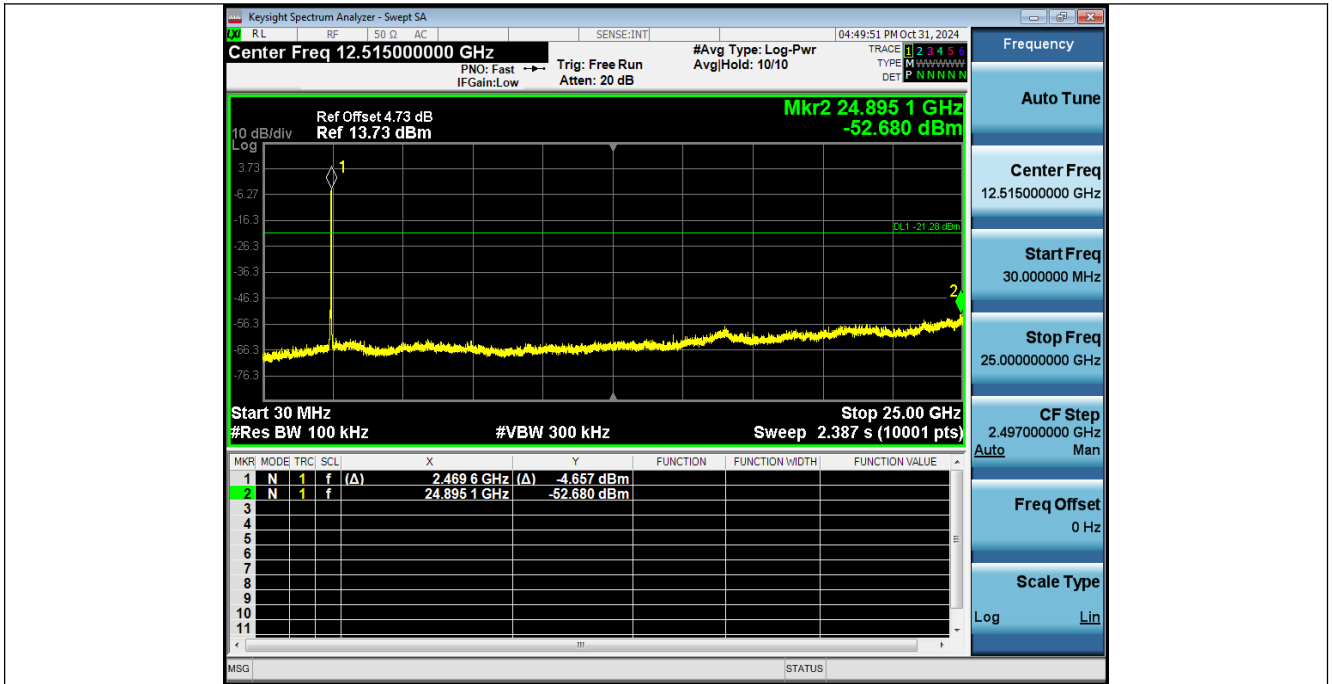


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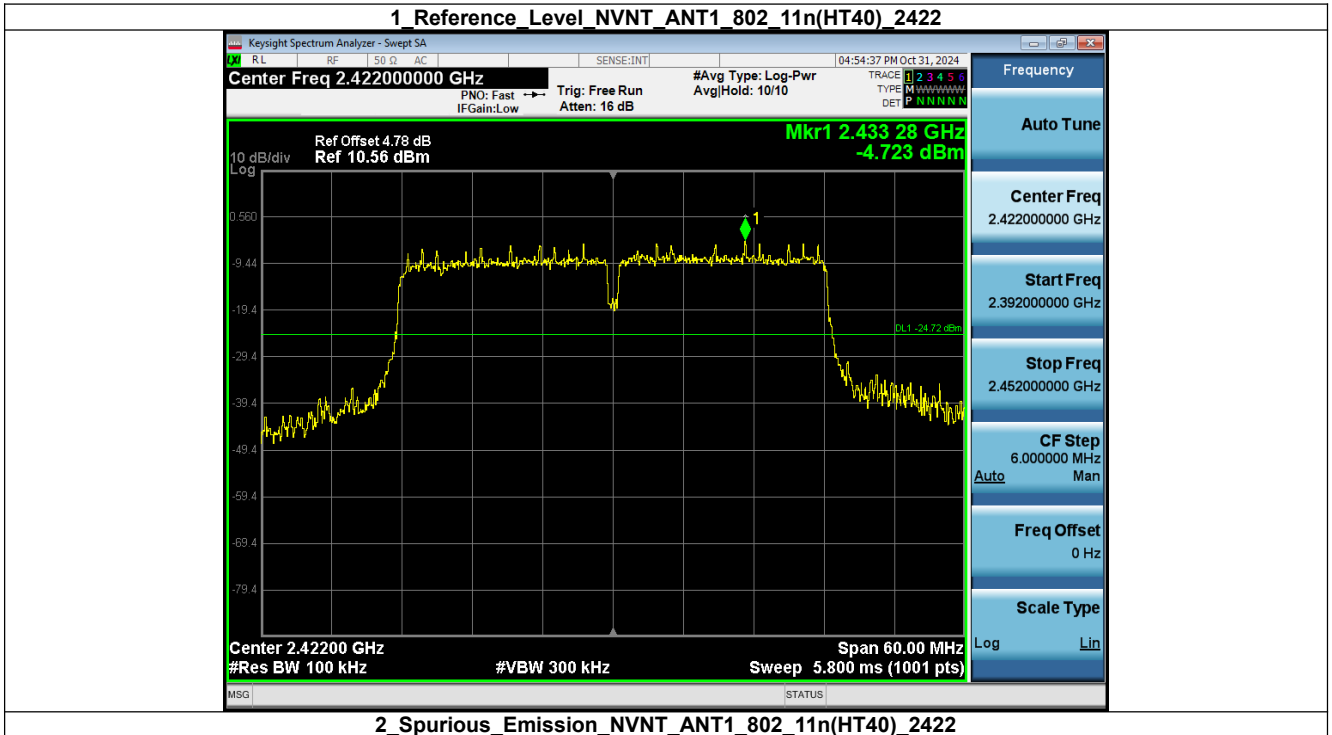


1 Reference Level NVNT_ANT1_802_11n(HT20)_2462

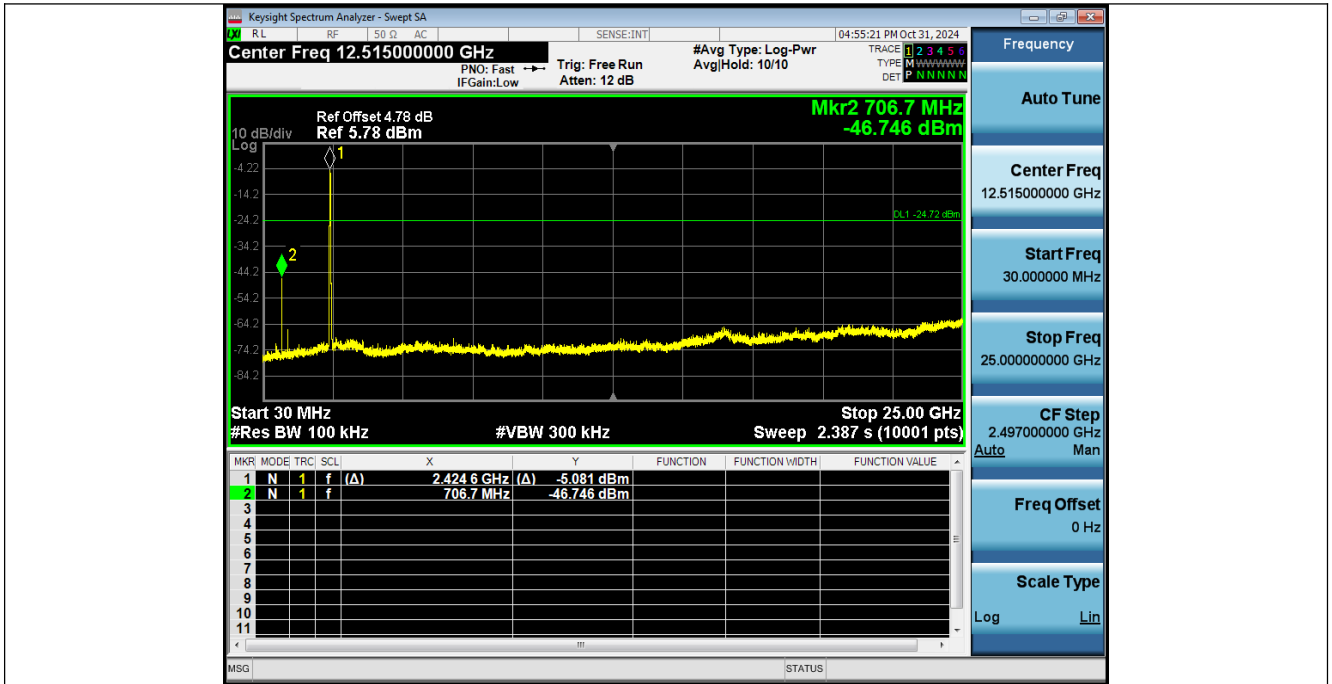




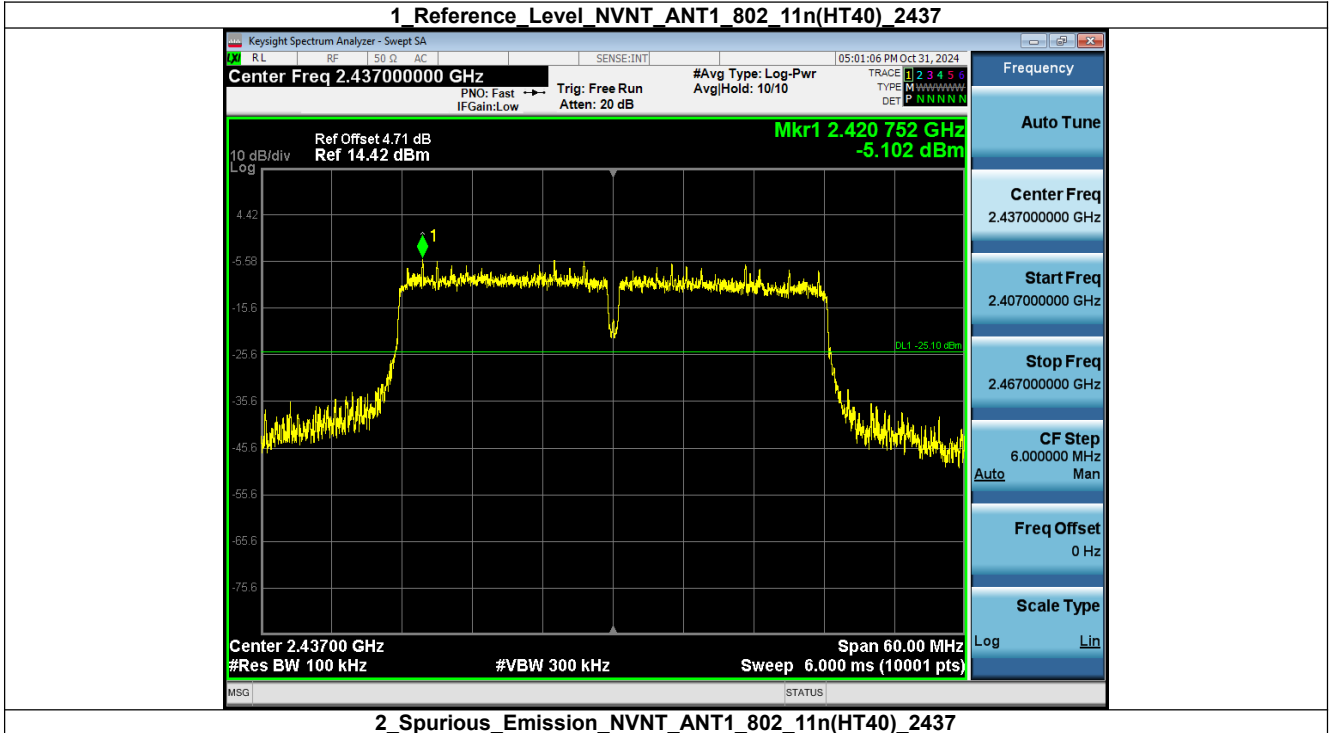
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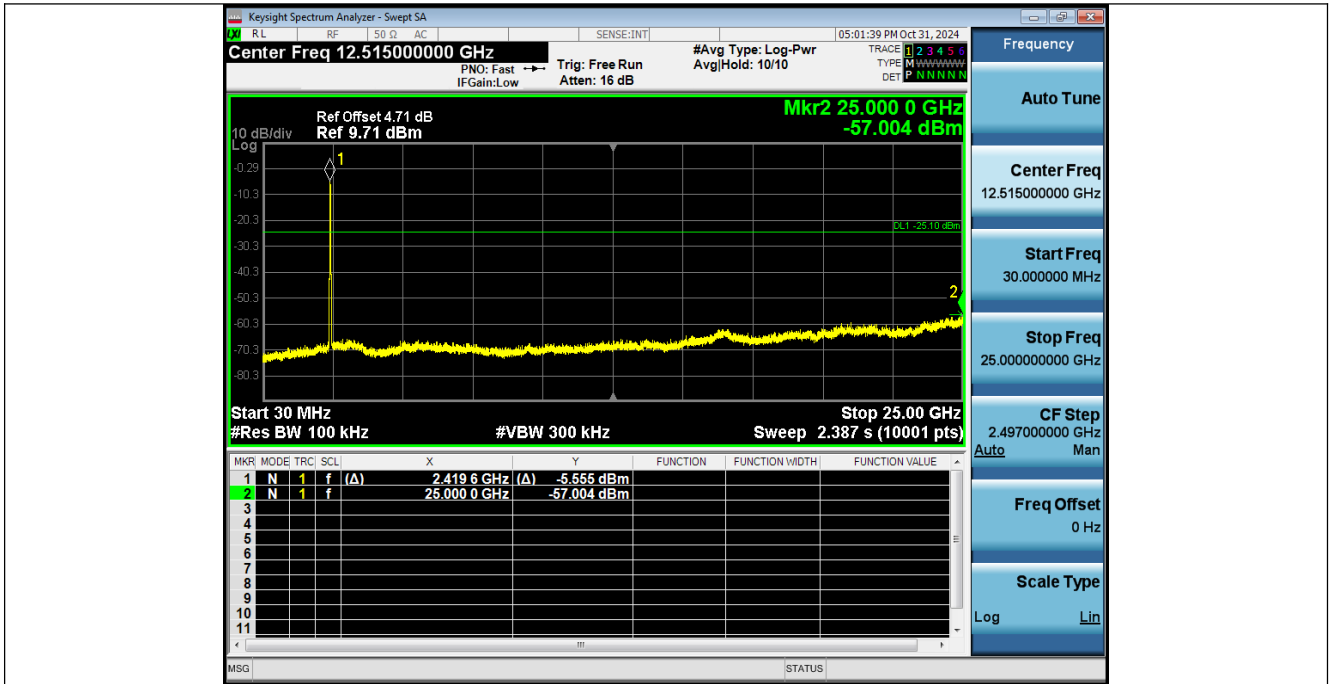
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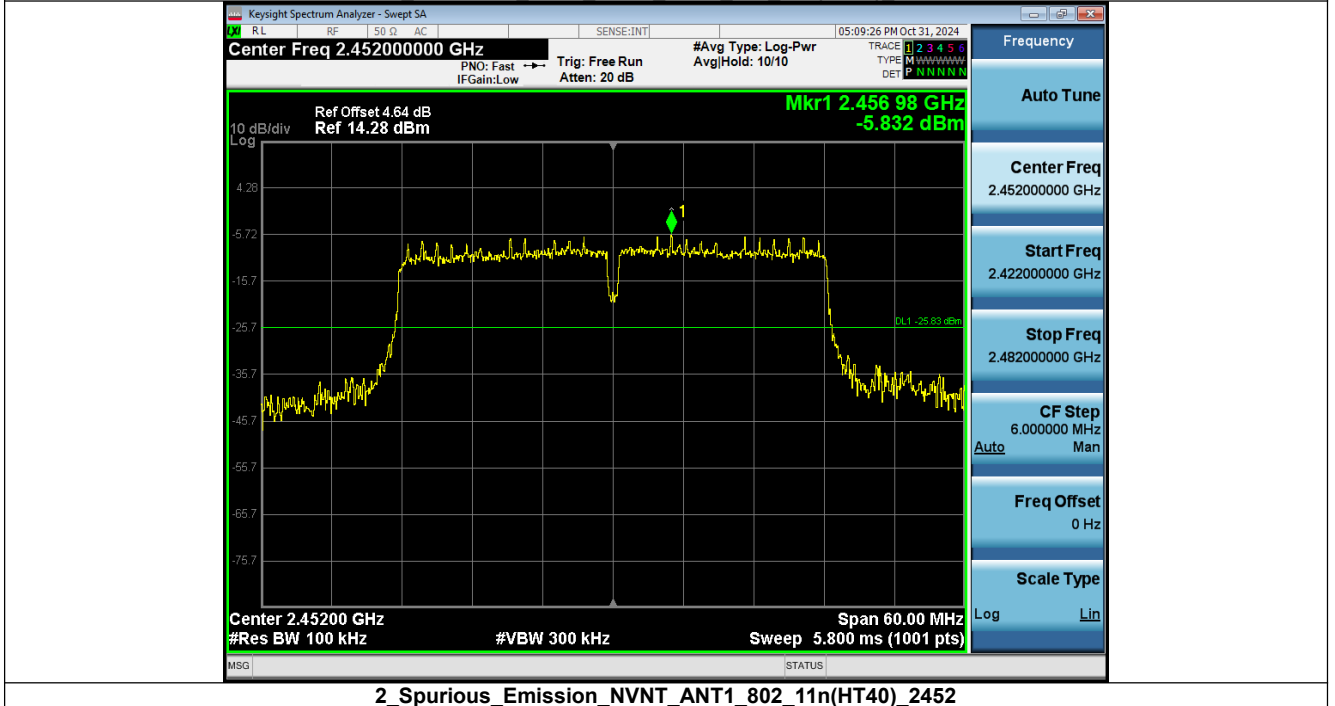
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452

