



Report No.: MAX250423110P01-R02
FCC ID: 2BDTM-M01
FCC_2.4G_WIFI (Part15.247) Test Data

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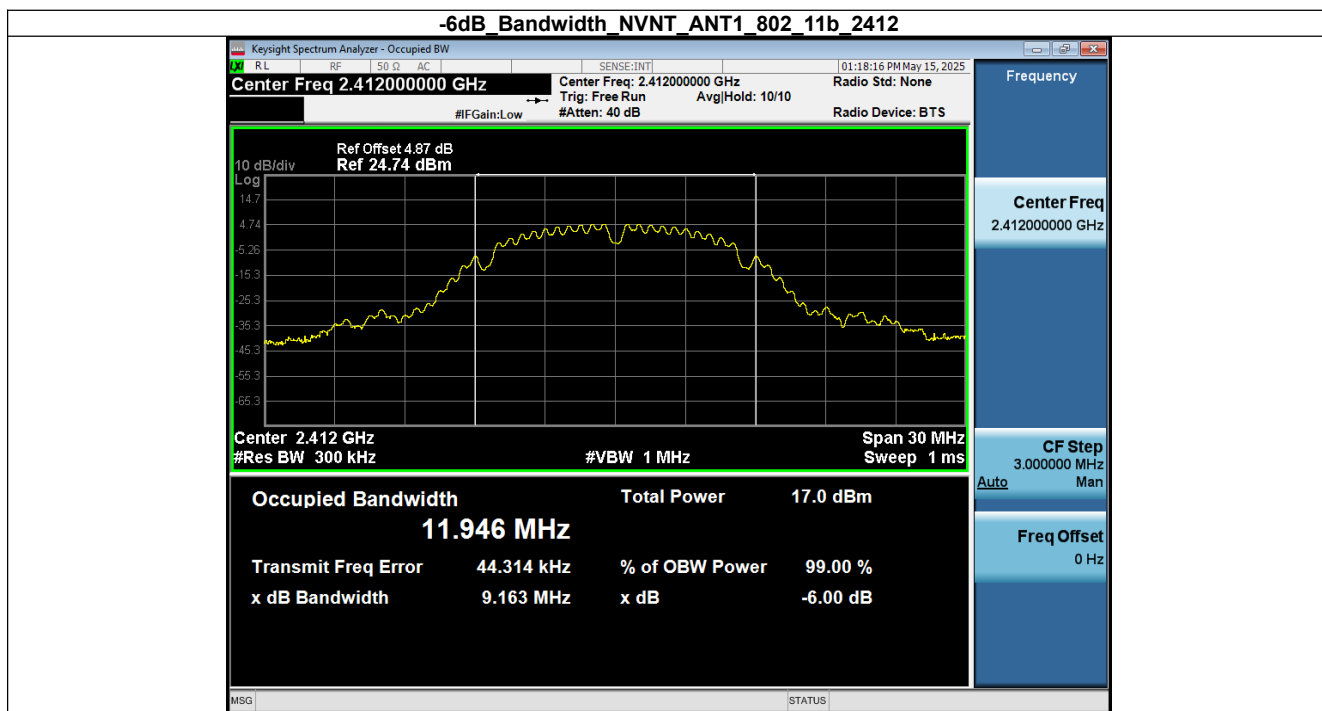
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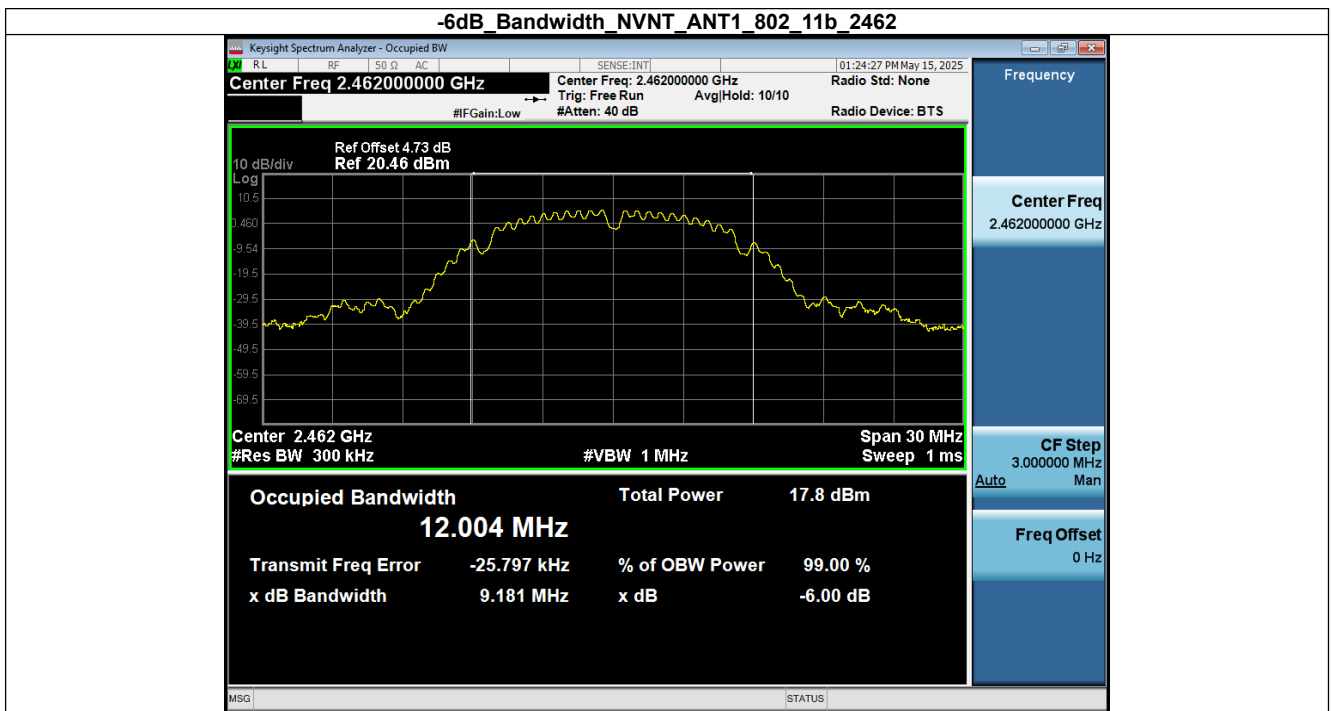
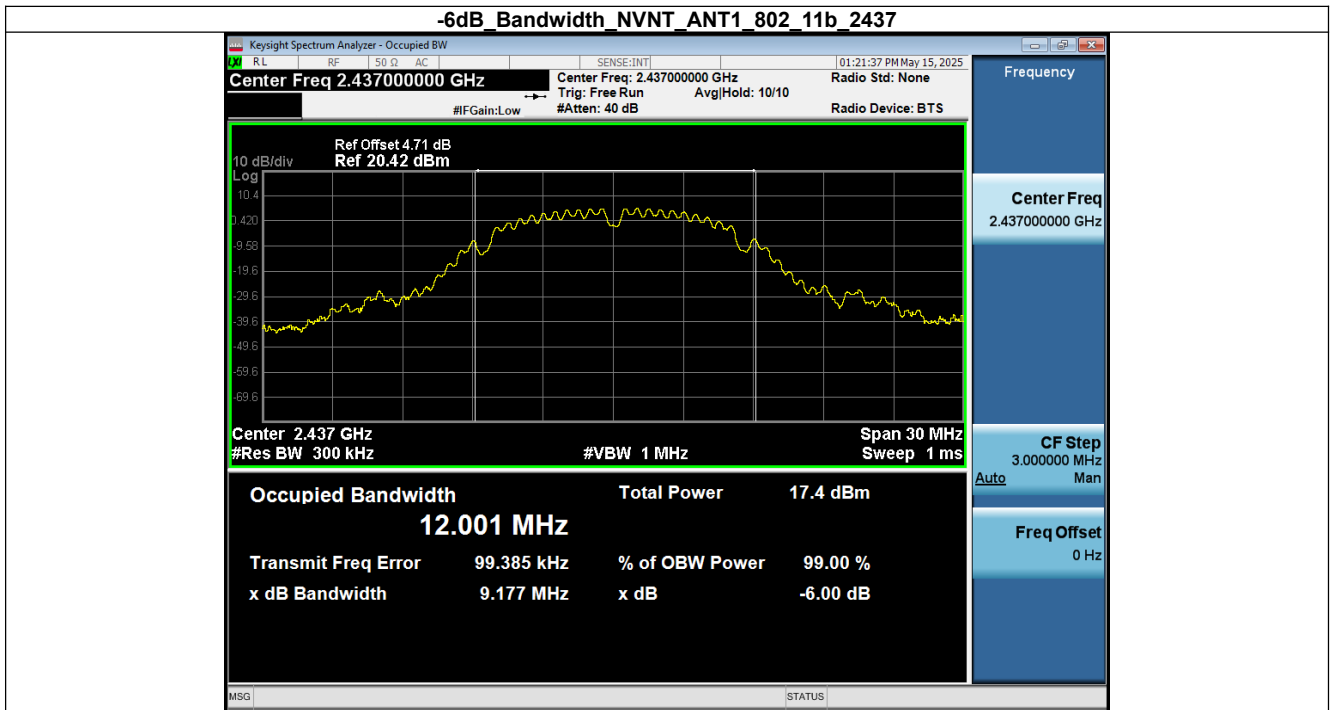
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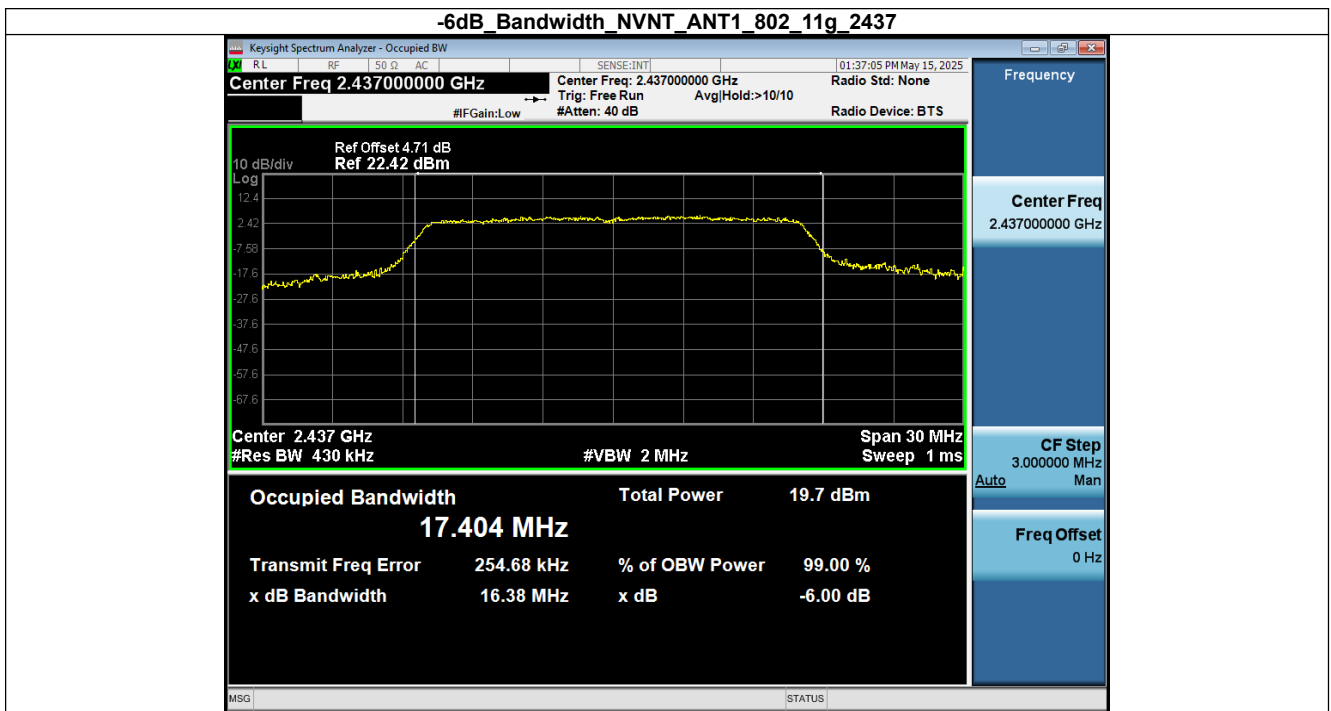
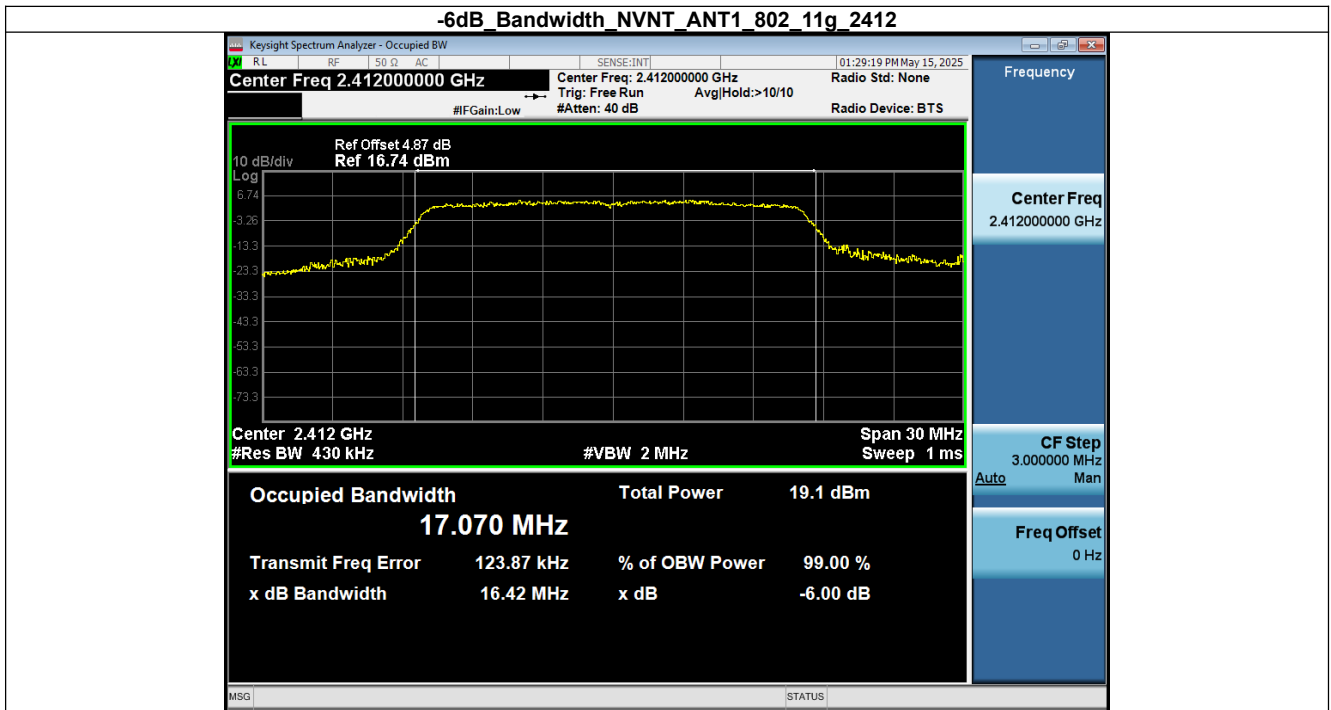
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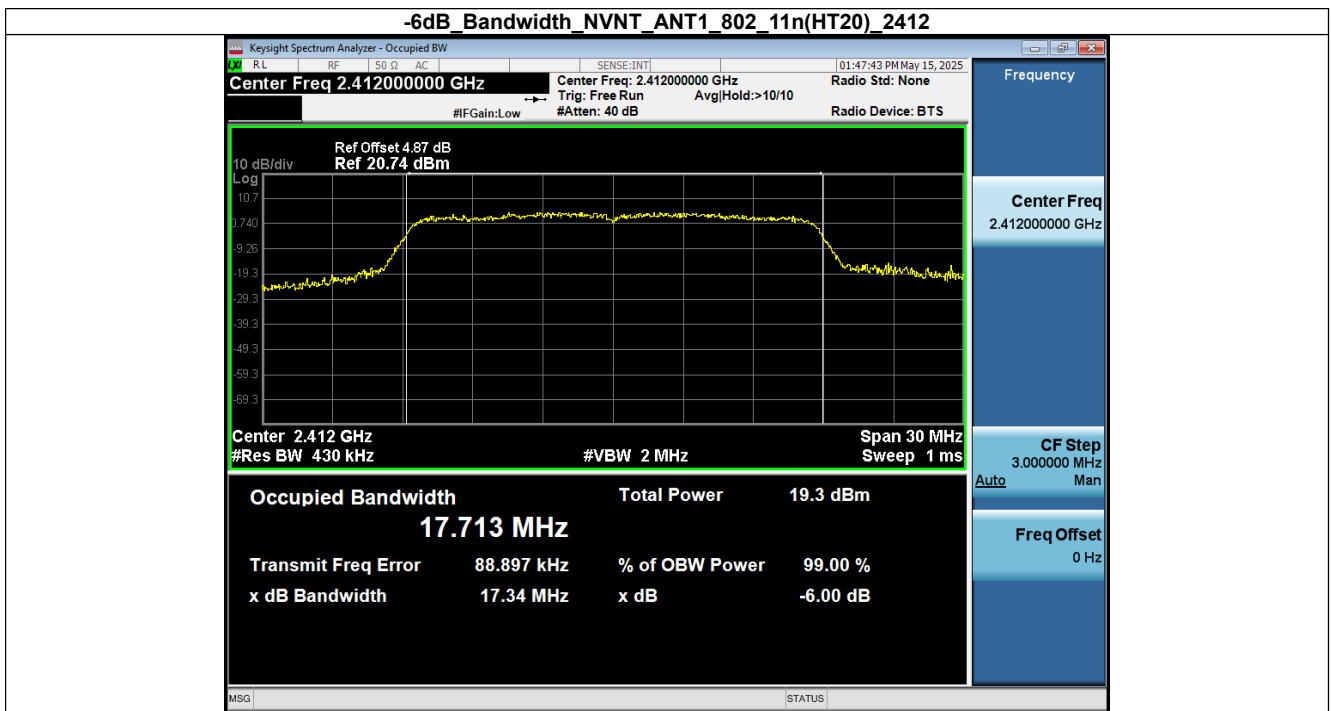
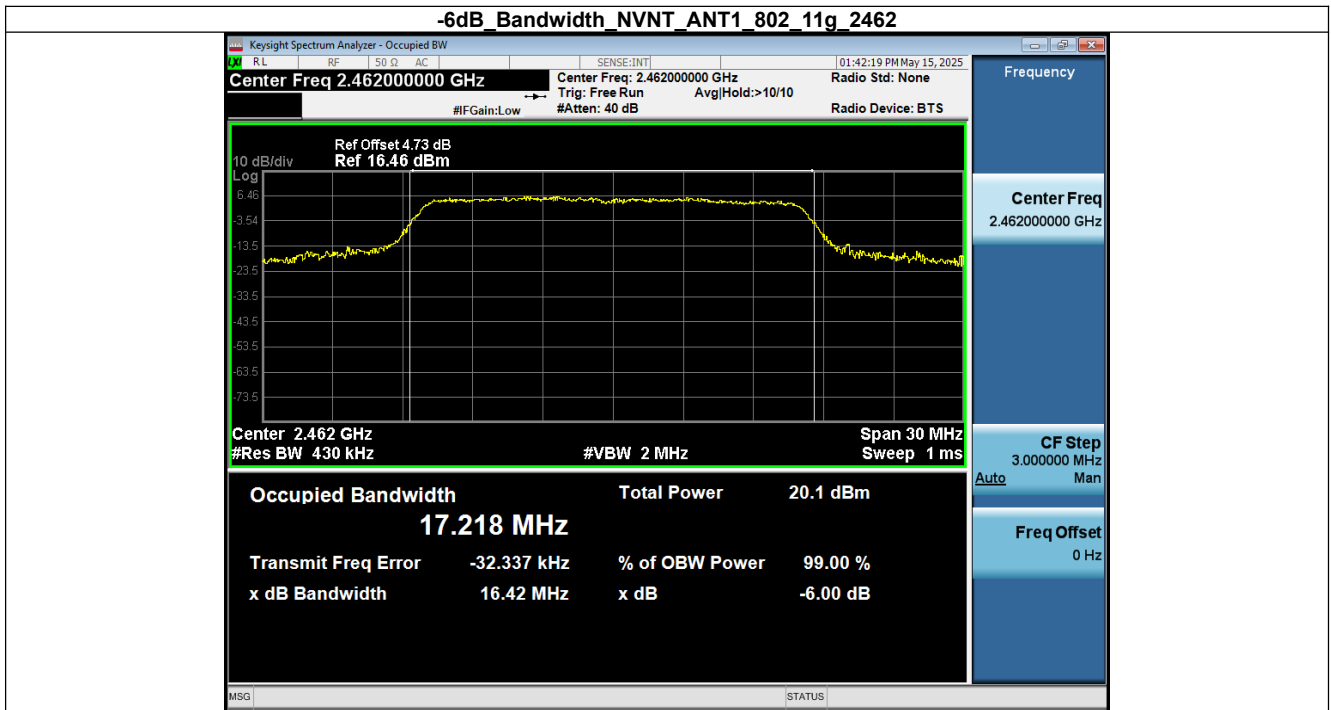
1. -6dB Bandwidth

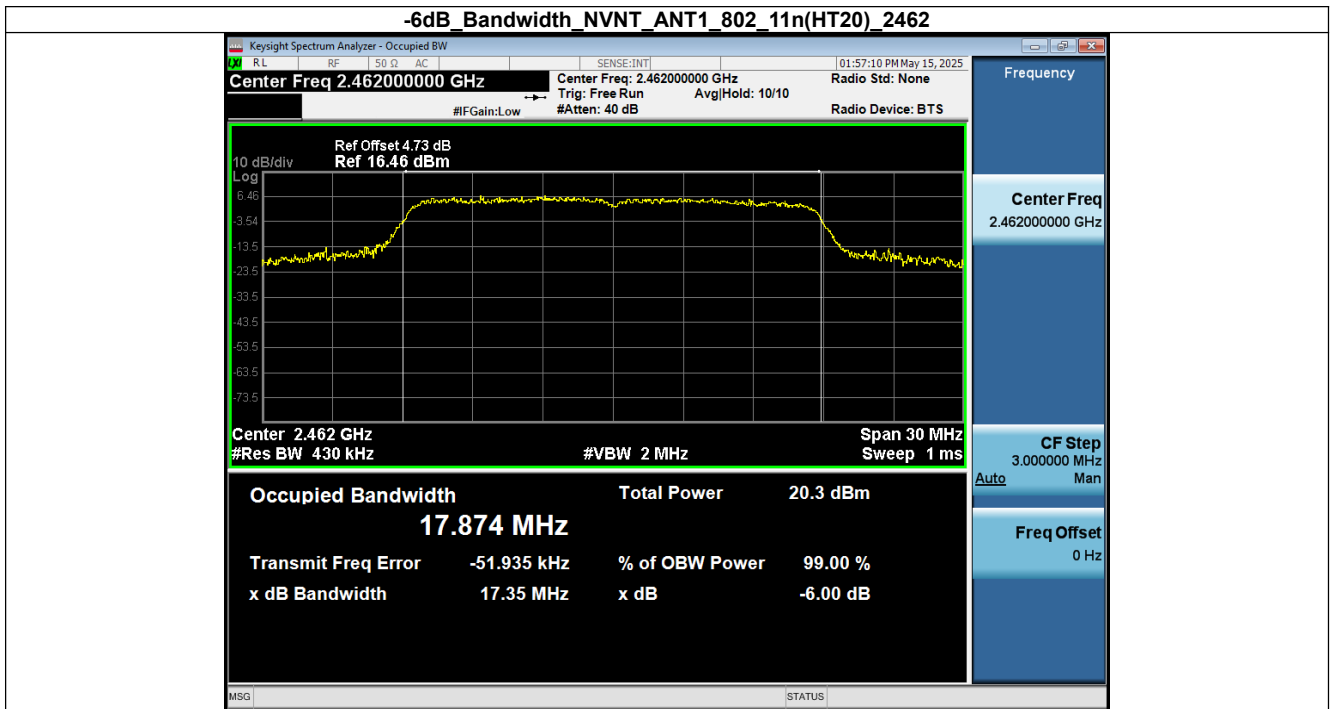
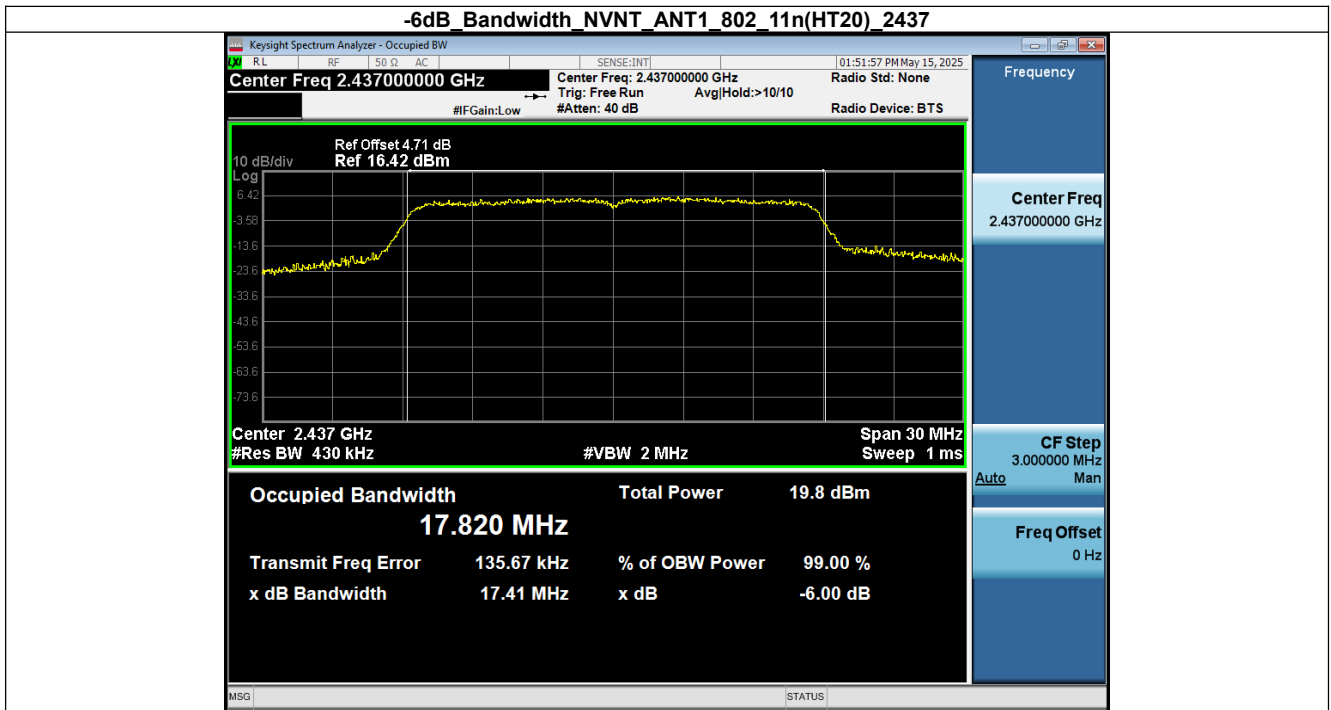
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.16	500	Pass
NVNT	ANT1	802.11b	2437.00	9.18	500	Pass
NVNT	ANT1	802.11b	2462.00	9.18	500	Pass
NVNT	ANT1	802.11g	2412.00	16.42	500	Pass
NVNT	ANT1	802.11g	2437.00	16.38	500	Pass
NVNT	ANT1	802.11g	2462.00	16.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.41	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.35	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.20	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.90	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.86	500	Pass



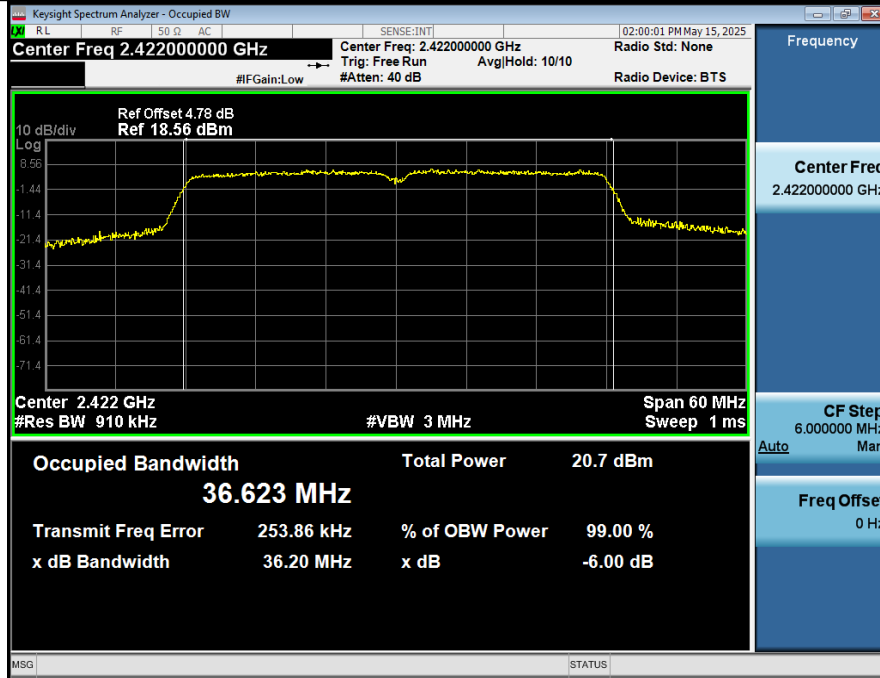




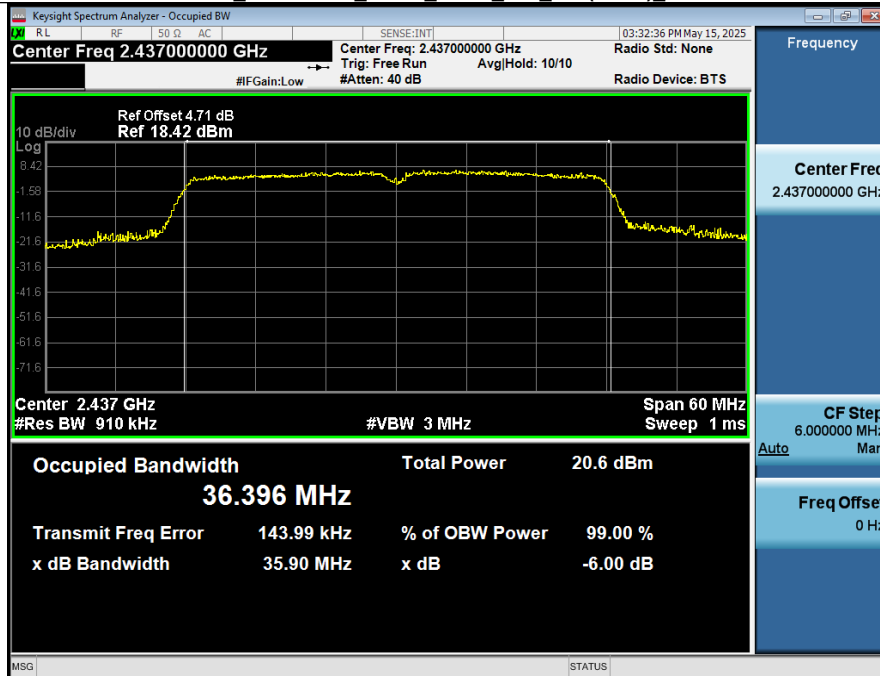


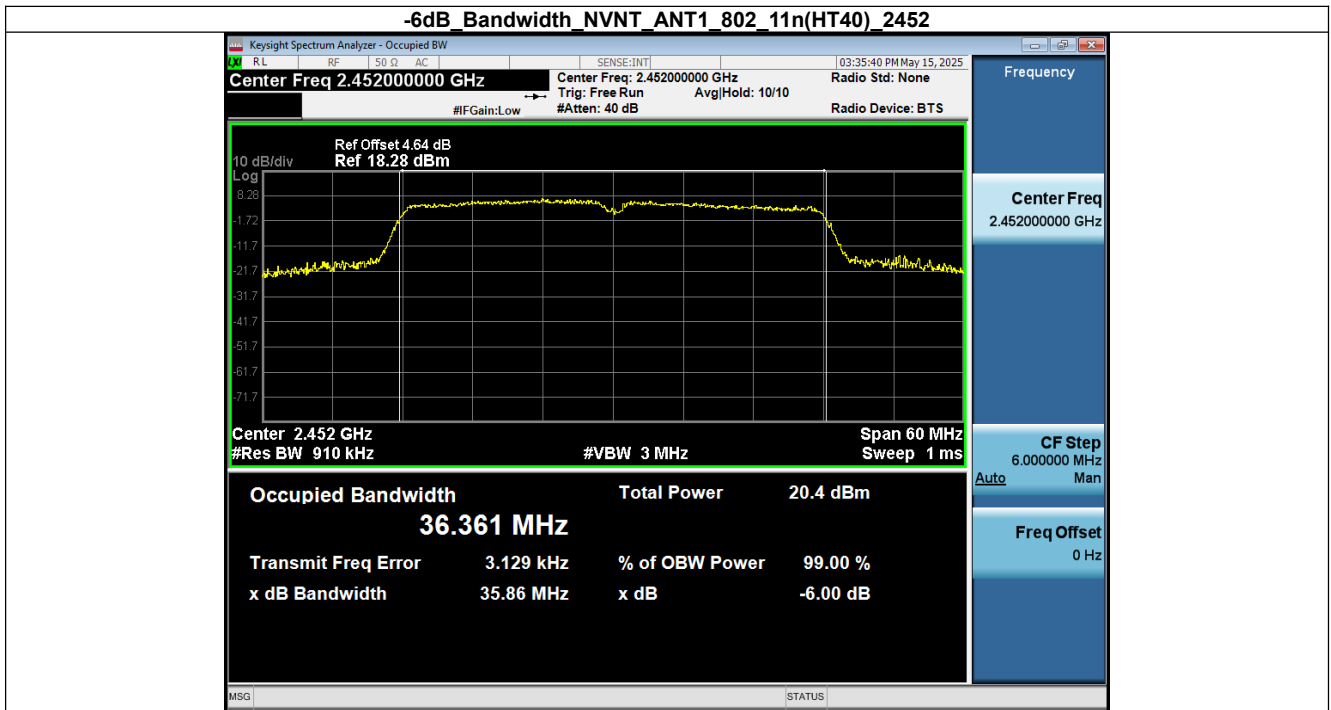


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



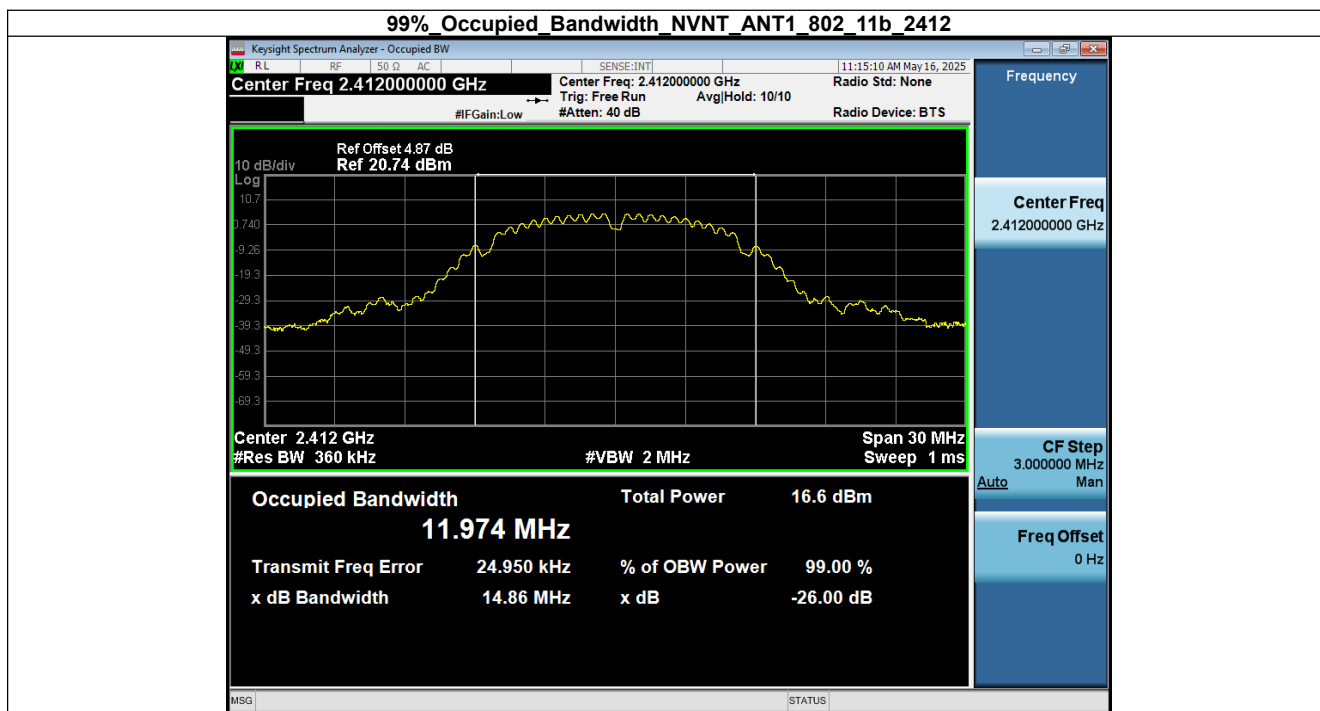
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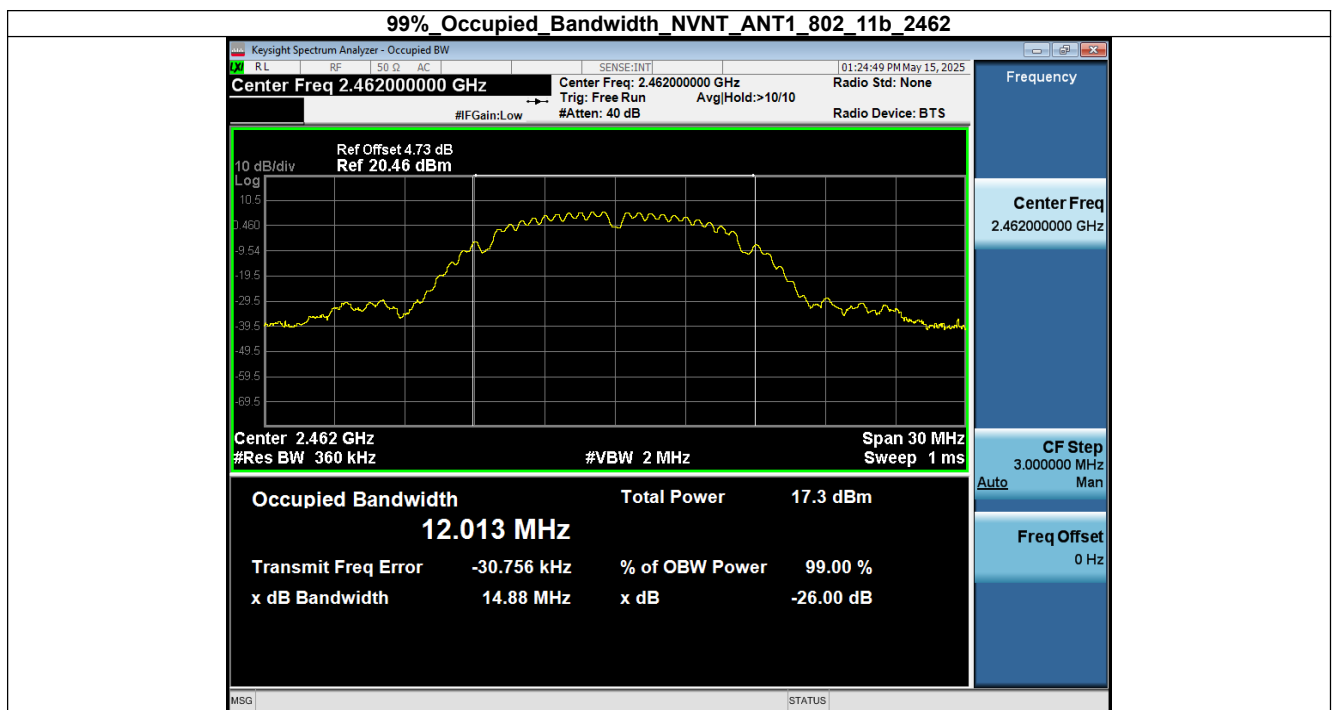
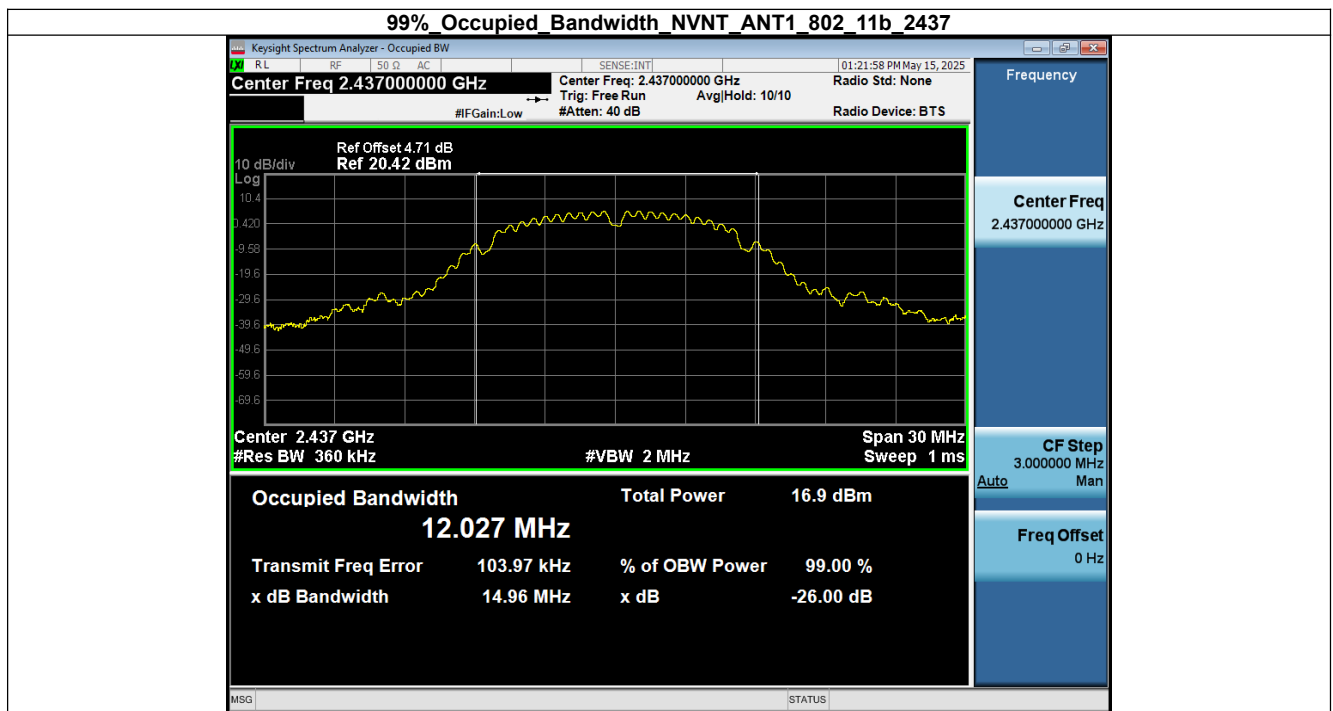


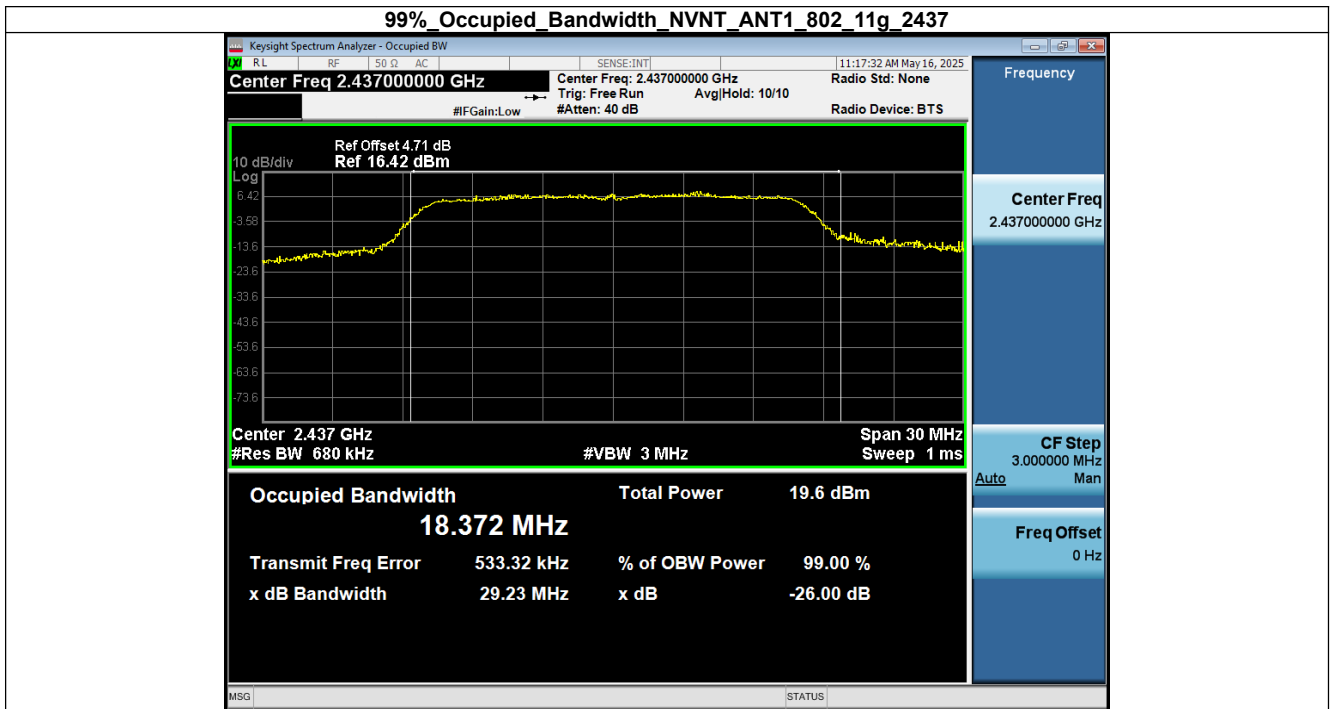
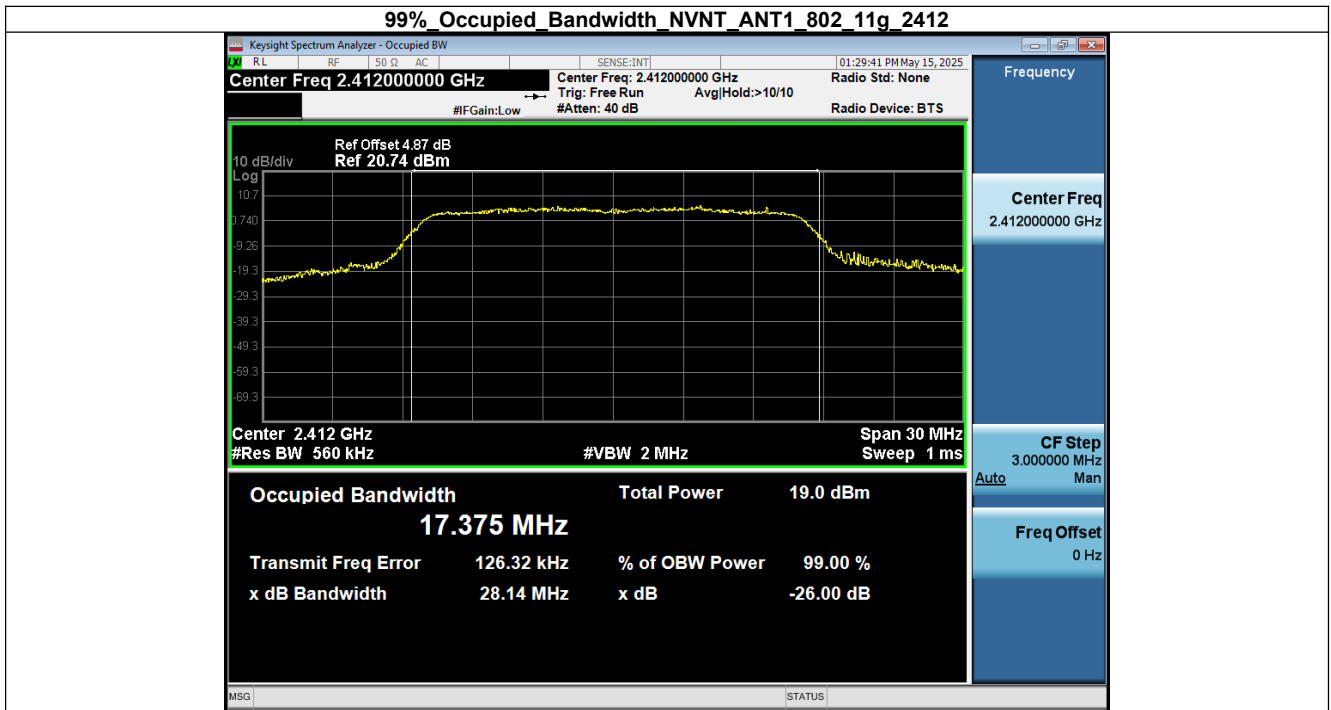


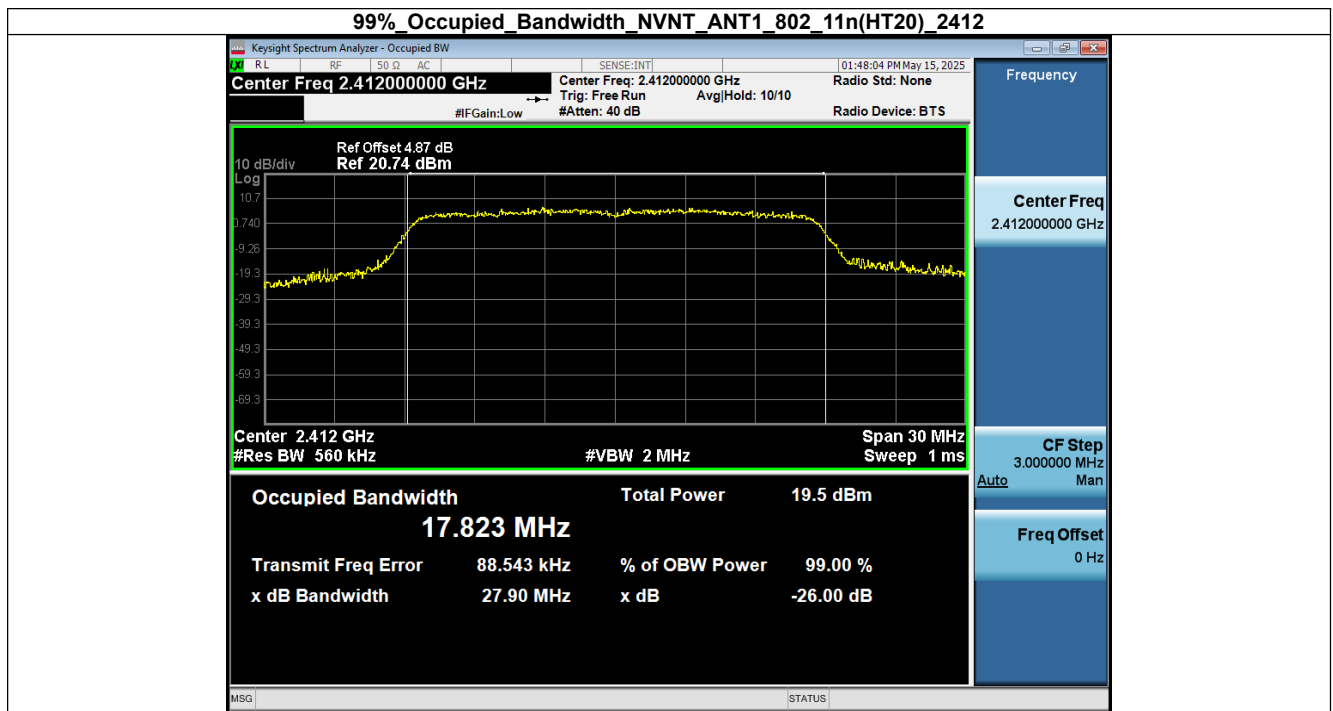
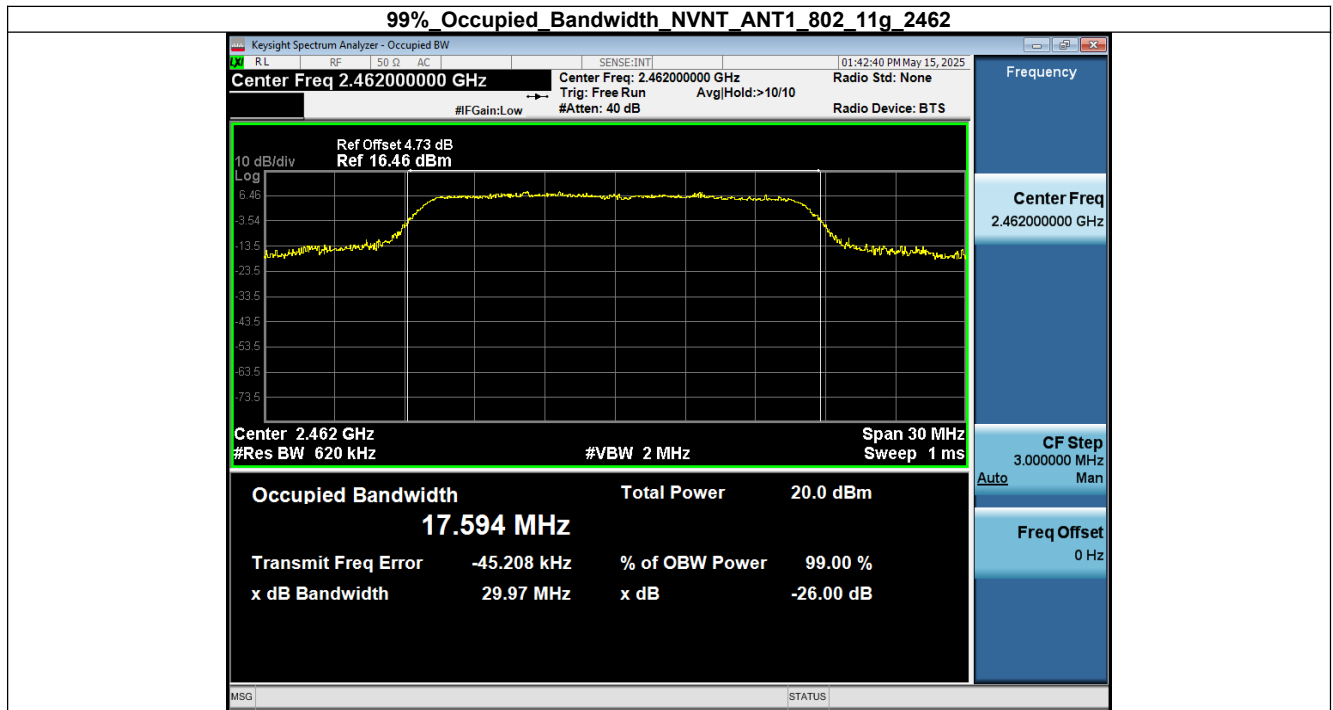
2. 99% Occupied Bandwidth

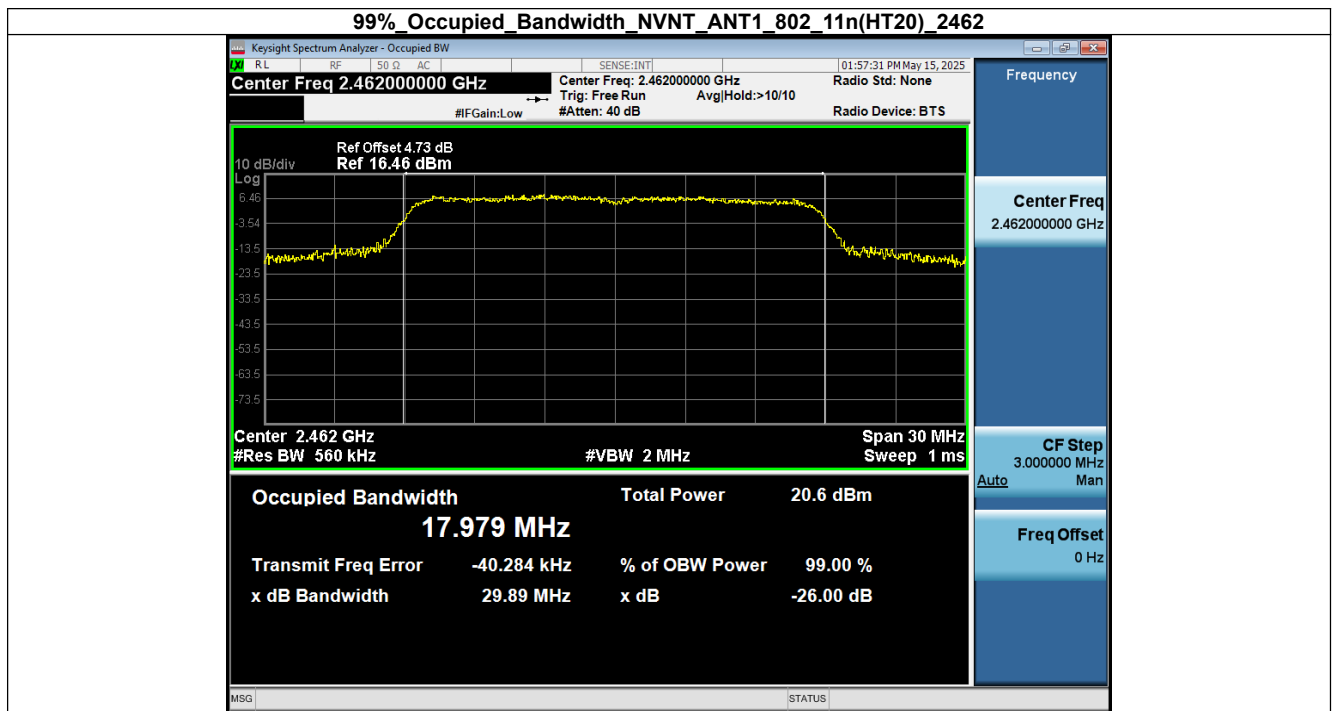
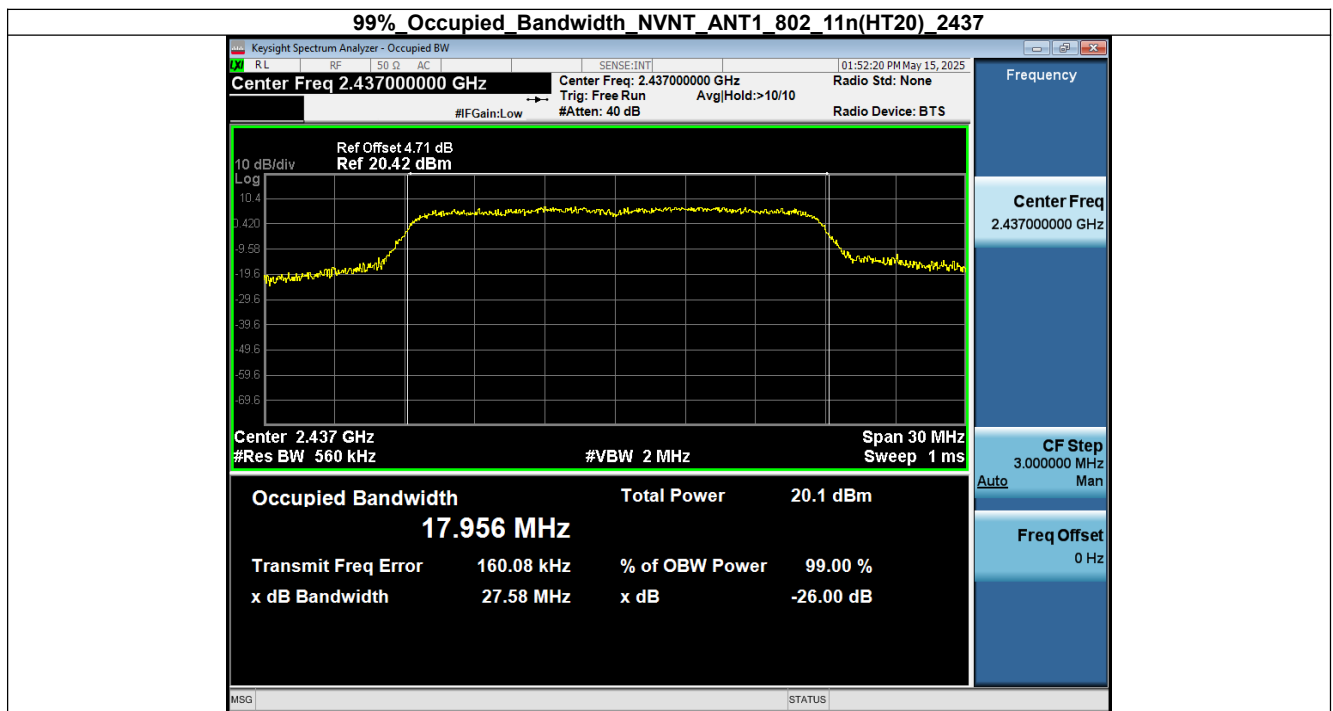
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.974
NVNT	ANT1	802.11b	2437.00	12.027
NVNT	ANT1	802.11b	2462.00	12.013
NVNT	ANT1	802.11g	2412.00	17.375
NVNT	ANT1	802.11g	2437.00	18.372
NVNT	ANT1	802.11g	2462.00	17.594
NVNT	ANT1	802.11n(HT20)	2412.00	17.823
NVNT	ANT1	802.11n(HT20)	2437.00	17.956
NVNT	ANT1	802.11n(HT20)	2462.00	17.979
NVNT	ANT1	802.11n(HT40)	2422.00	36.802
NVNT	ANT1	802.11n(HT40)	2437.00	36.462
NVNT	ANT1	802.11n(HT40)	2452.00	36.440

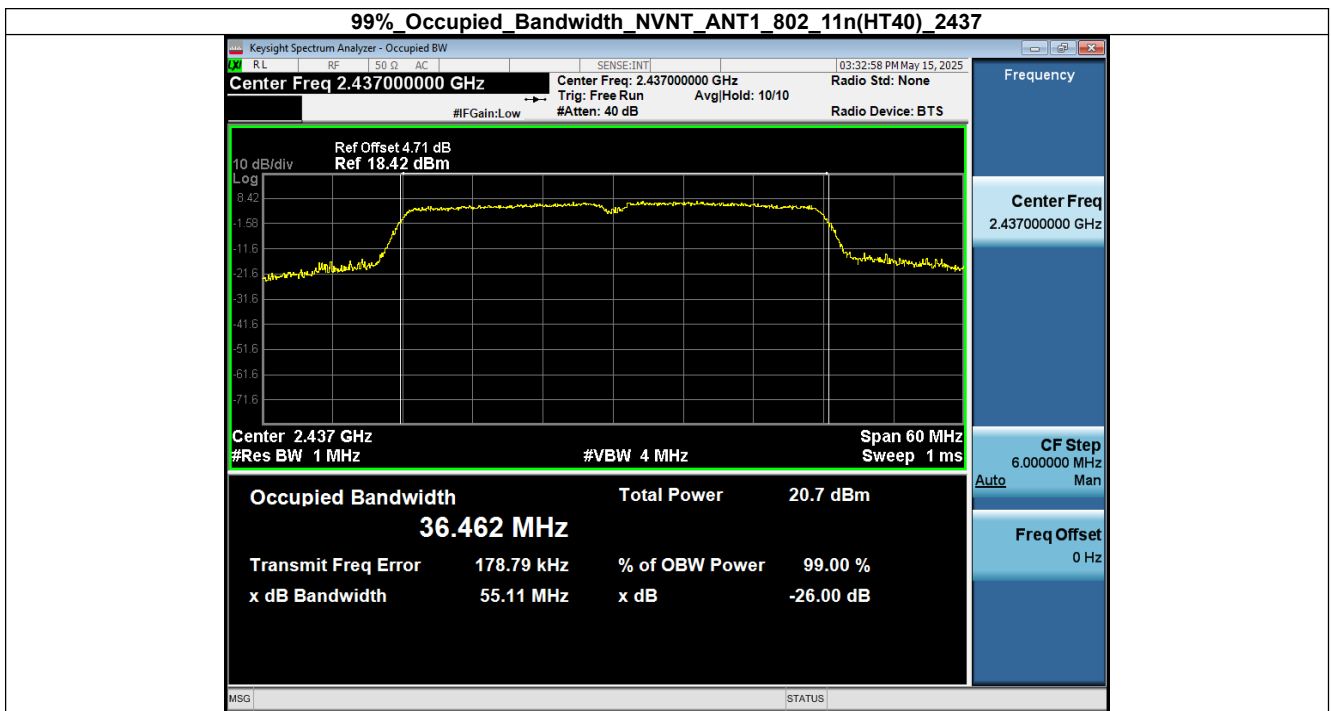
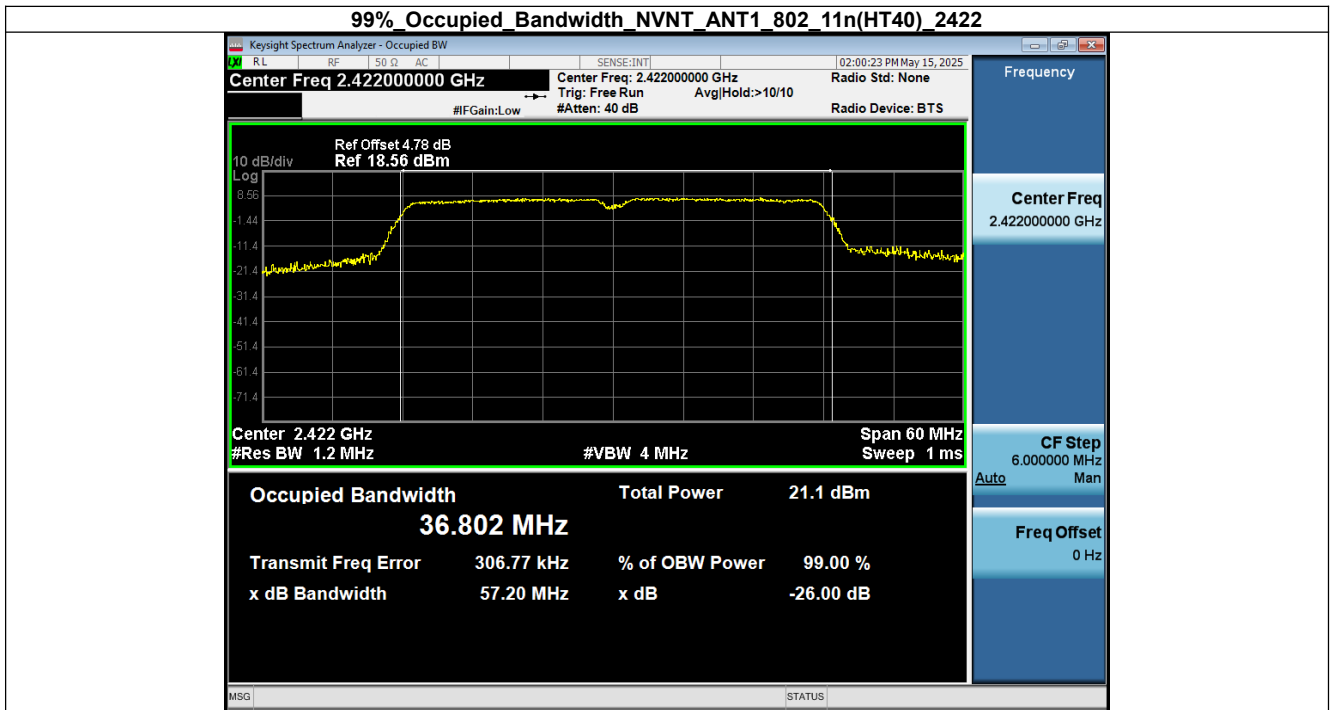


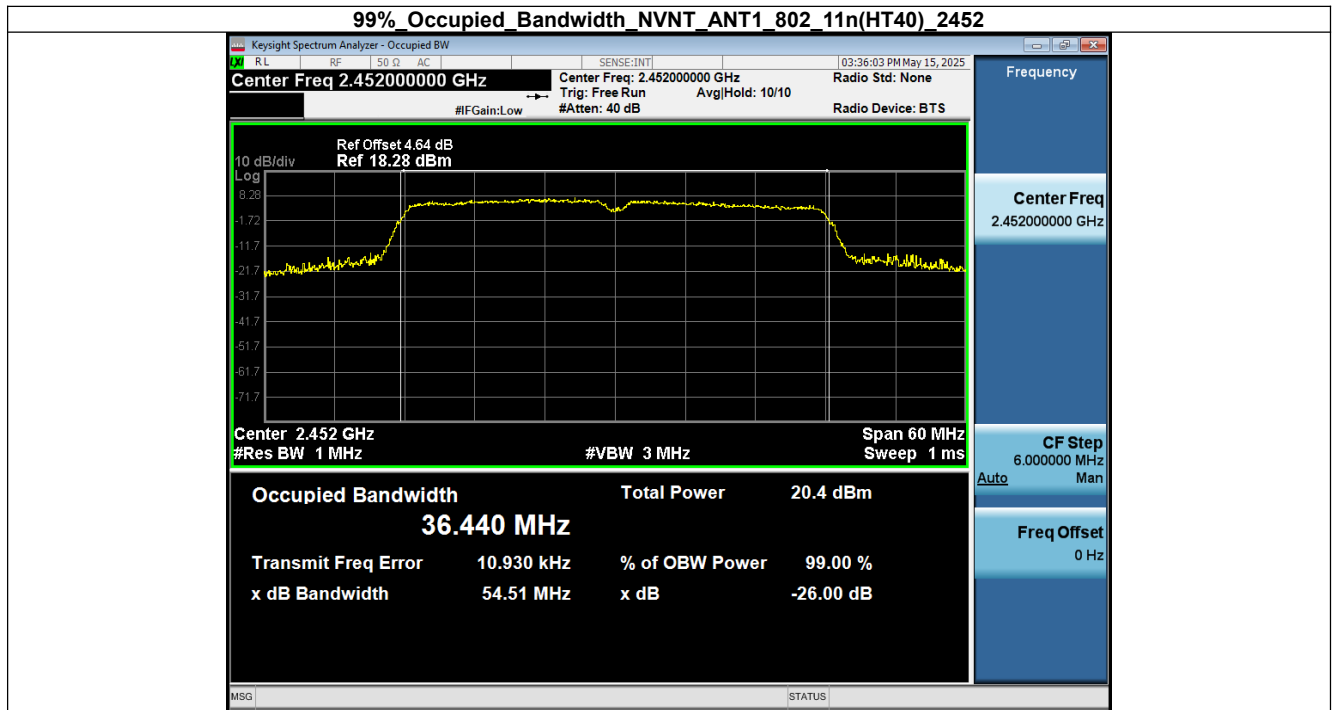






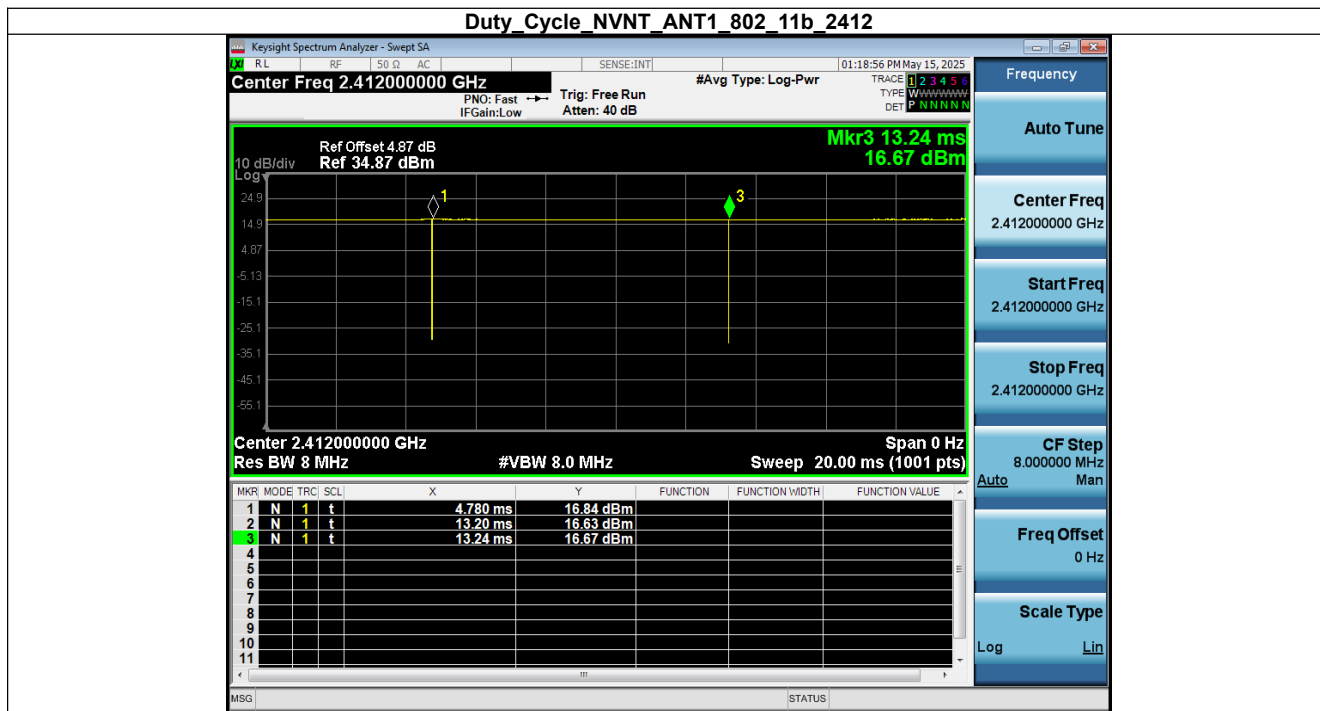




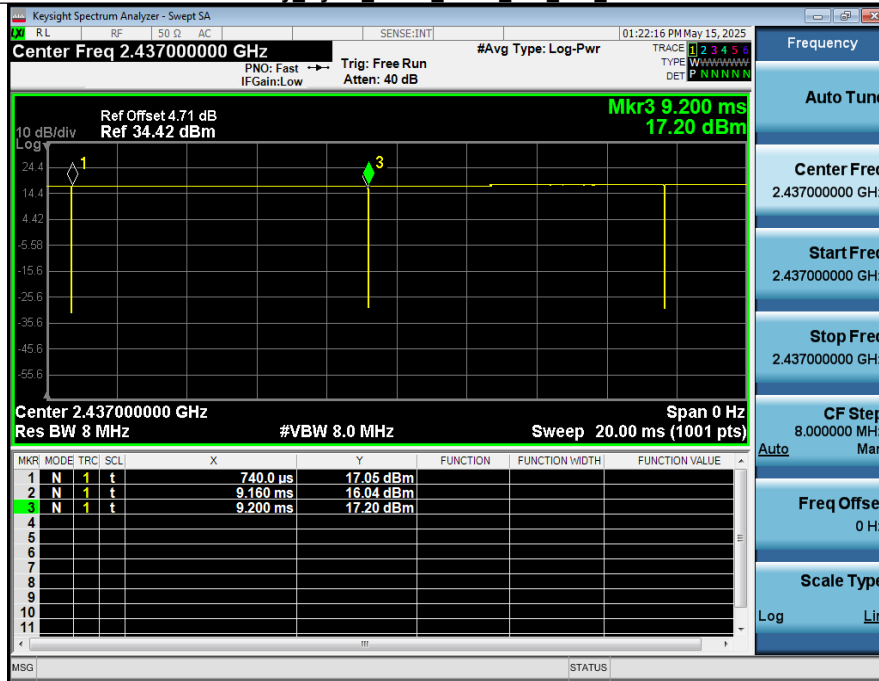


3. Duty Cycle

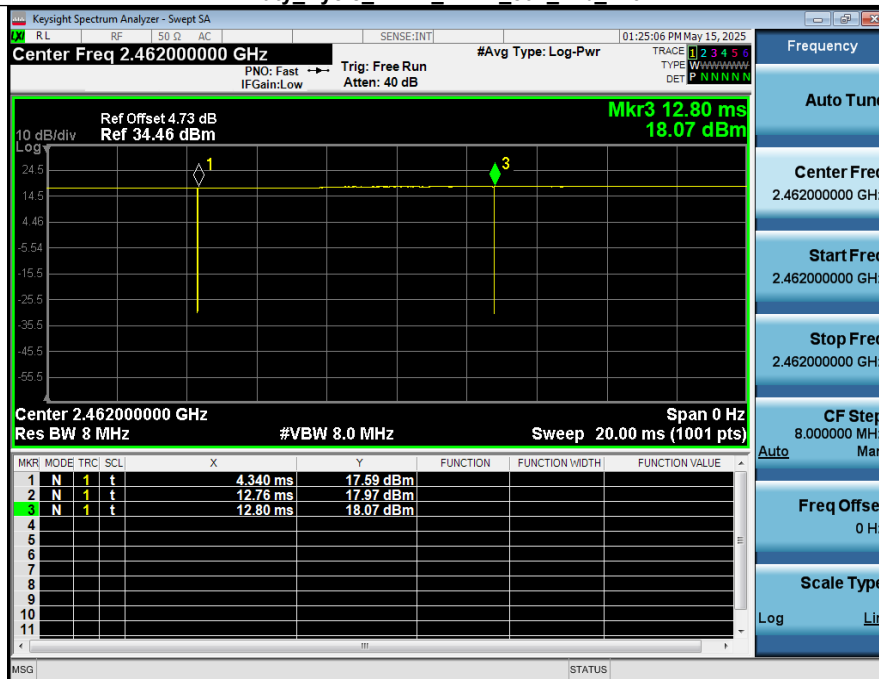
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	98.61	0.00
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	98.36	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



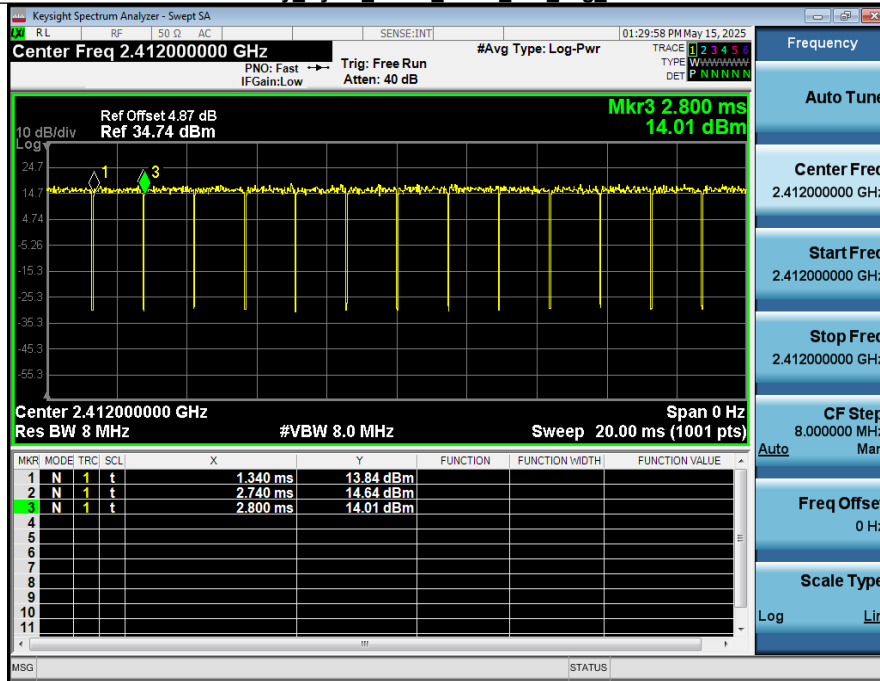
Duty_Cycle_NVNT_ANT1_802_11b_2437



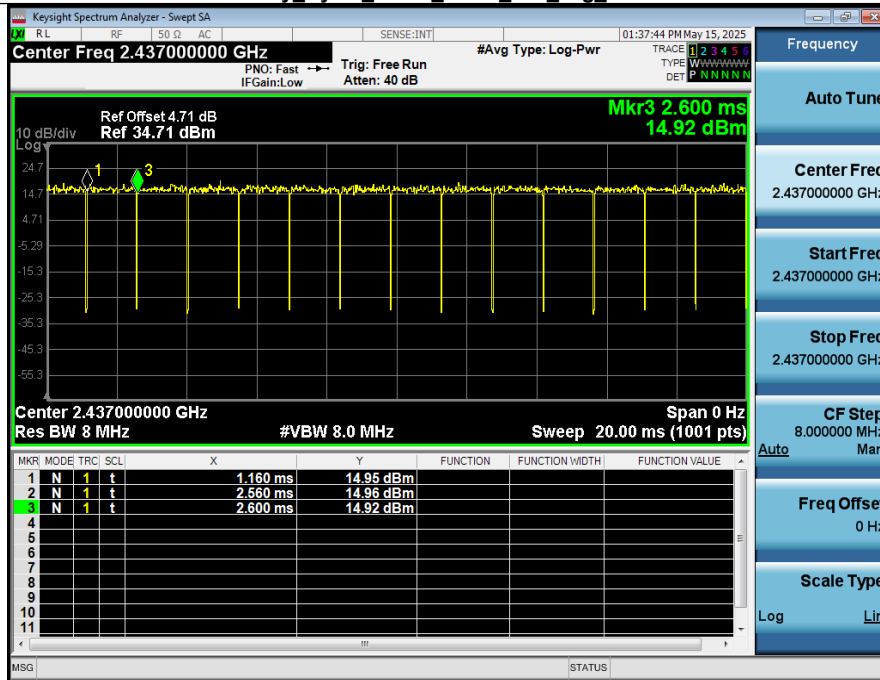
Duty_Cycle_NVNT_ANT1_802_11b_2462



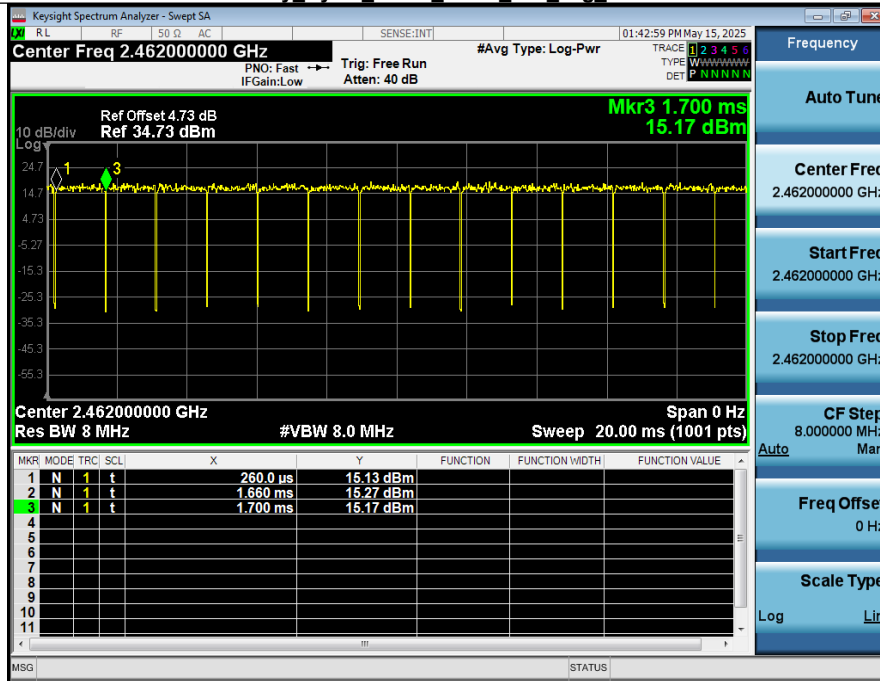
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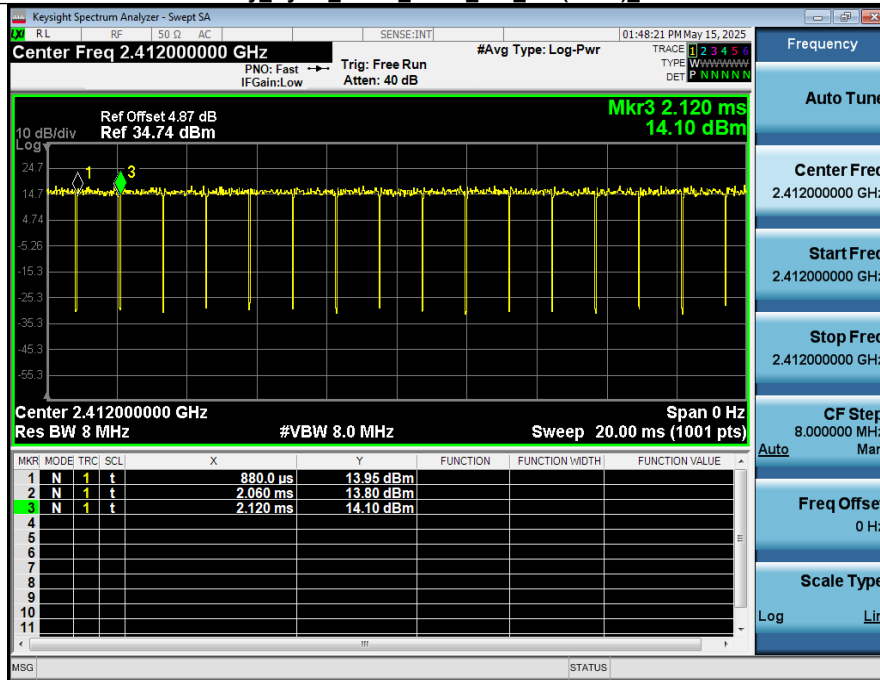
Duty_Cycle_NVNT_ANT1_802_11g_2437



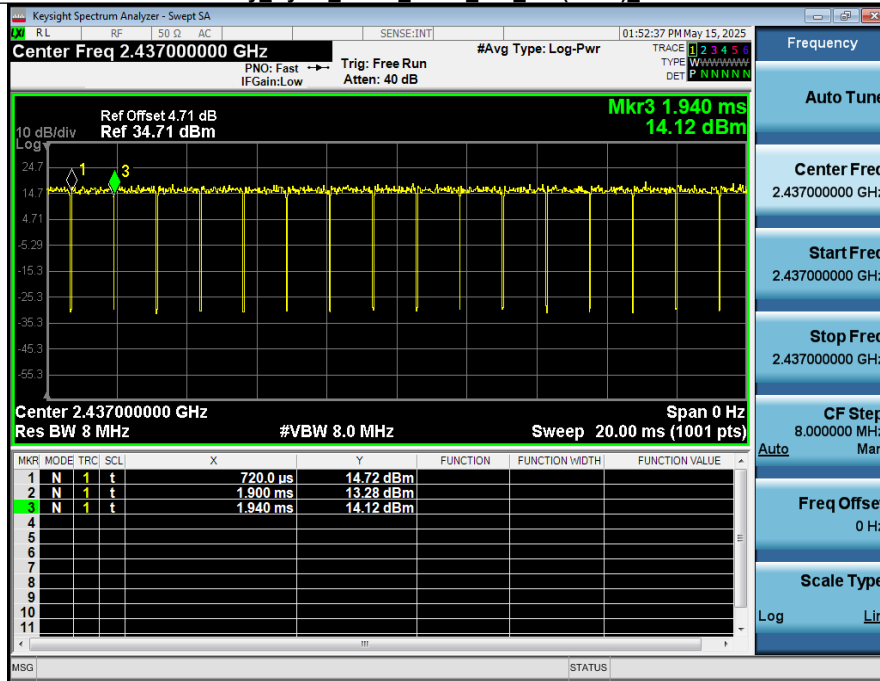
Duty_Cycle_NVNT_ANT1_802_11g_2462



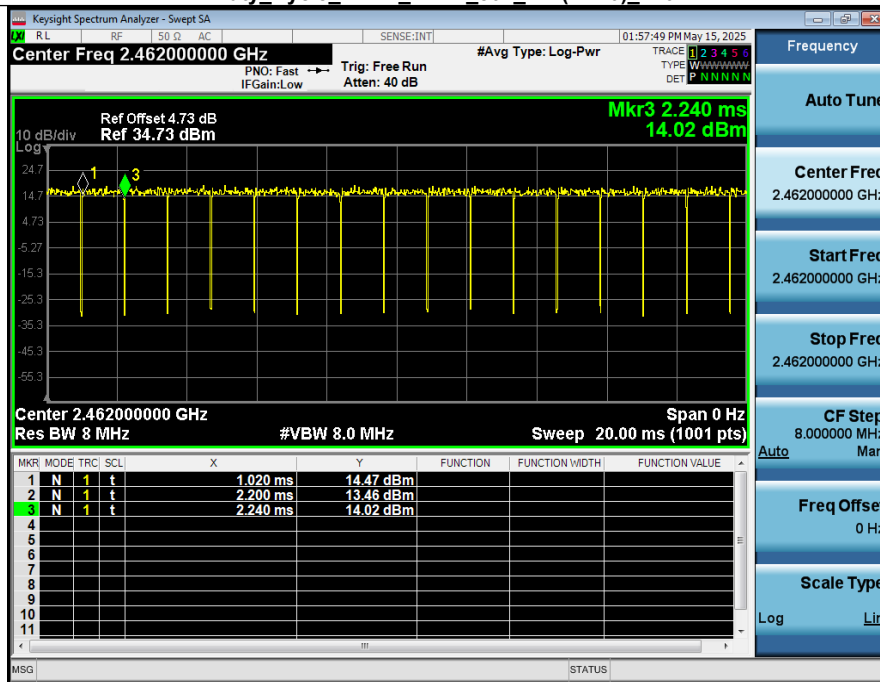
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



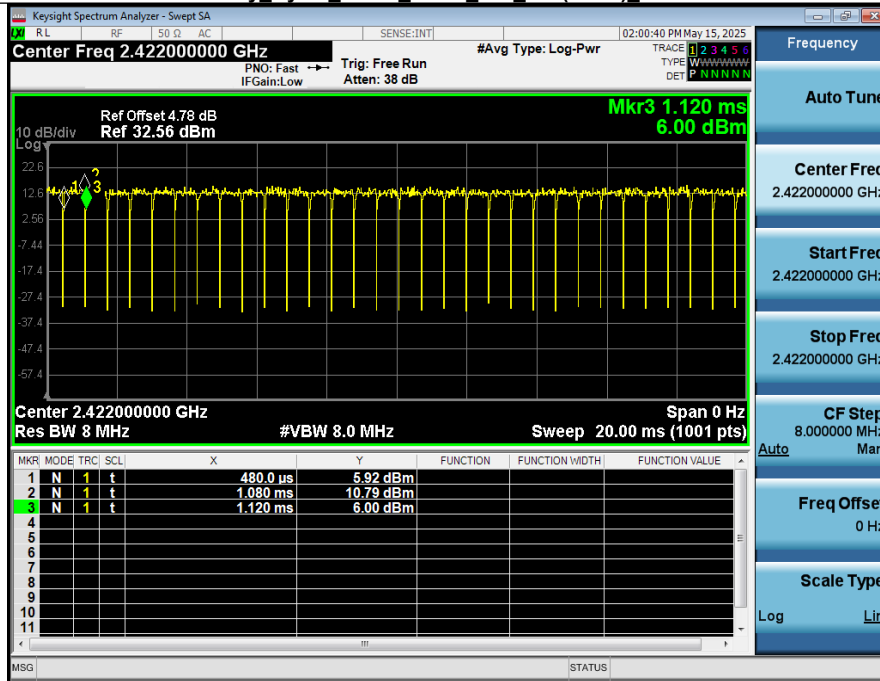
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



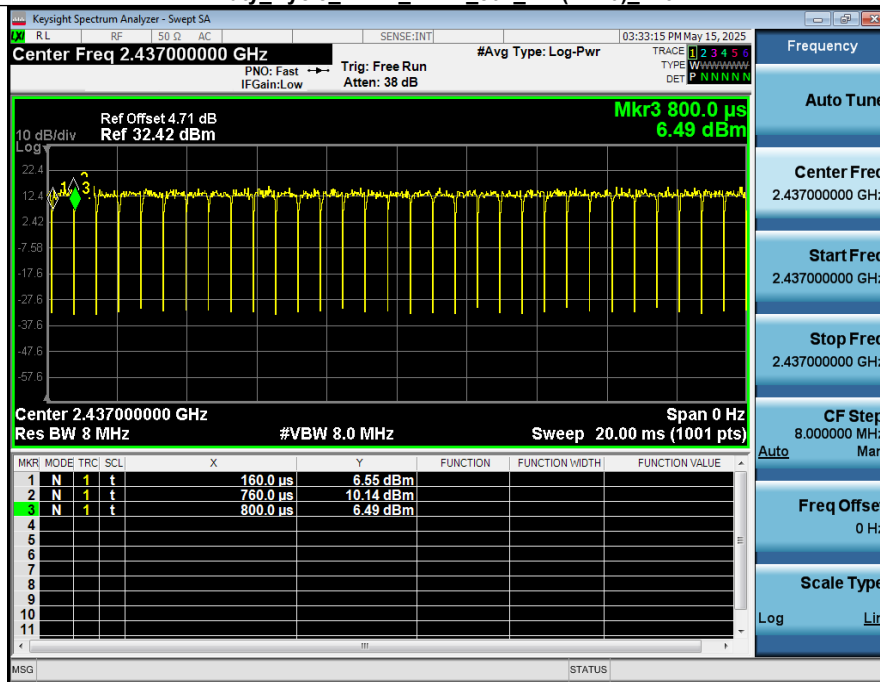
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

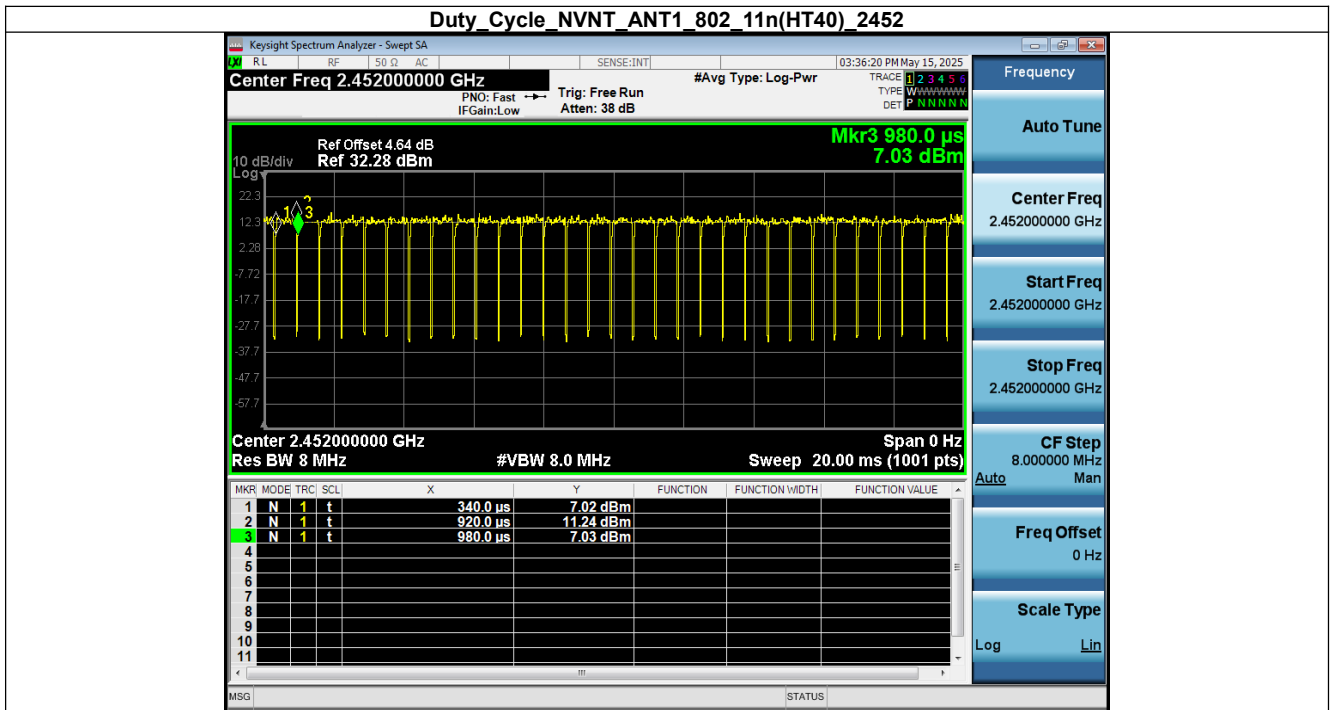


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



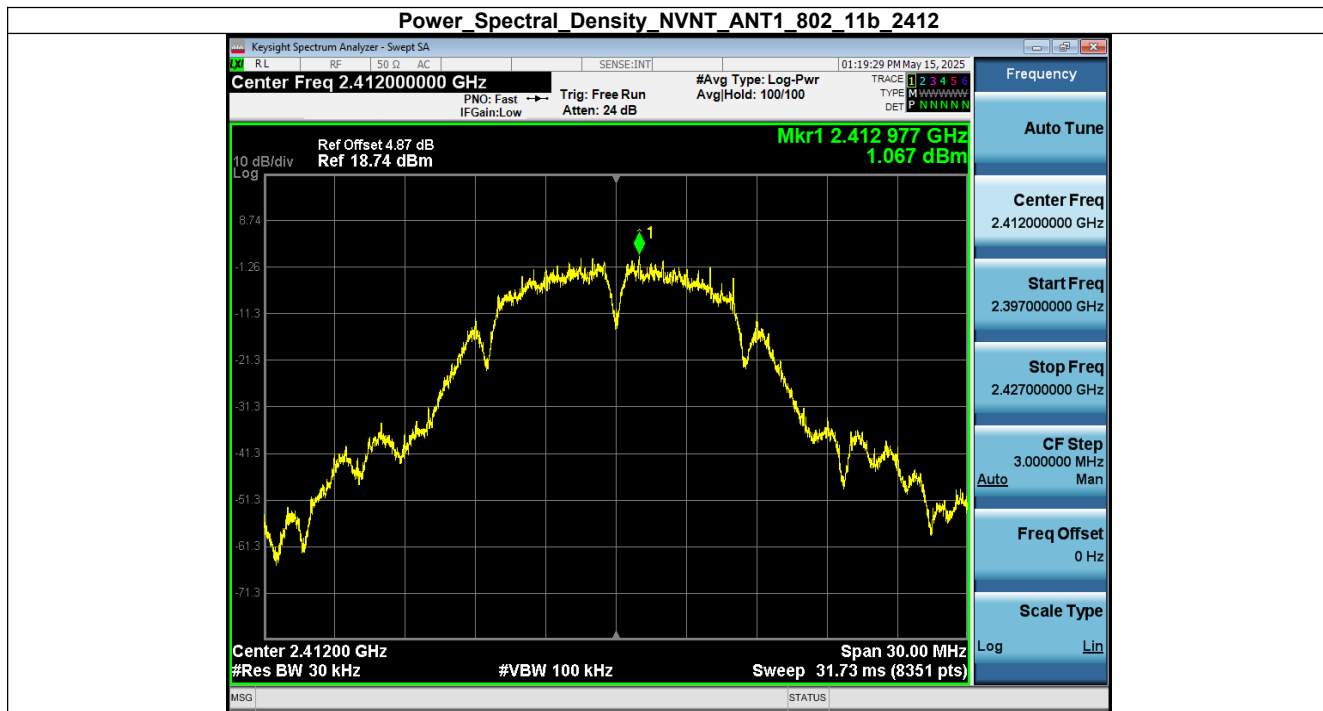


4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	peak conducted output power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	17.01	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.48	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.87	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	18.67	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.22	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.84	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	17.68	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.25	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	17.87	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	18.56	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	18.39	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	18.28	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.07	N/A	-10.00	-8.93	8	Pass
NVNT	ANT1	802.11b	2437.00	0.98	N/A	-10.00	-9.02	8	Pass
NVNT	ANT1	802.11b	2462.00	1.26	N/A	-10.00	-8.73	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.74	N/A	-10.00	-13.74	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.13	N/A	-10.00	-13.13	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.55	N/A	-10.00	-12.55	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.36	N/A	-10.00	-14.36	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-3.72	N/A	-10.00	-13.72	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.24	N/A	-10.00	-13.24	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.20	N/A	-10.00	-17.20	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-6.44	N/A	-10.00	-16.44	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.49	N/A	-10.00	-16.49	8	Pass



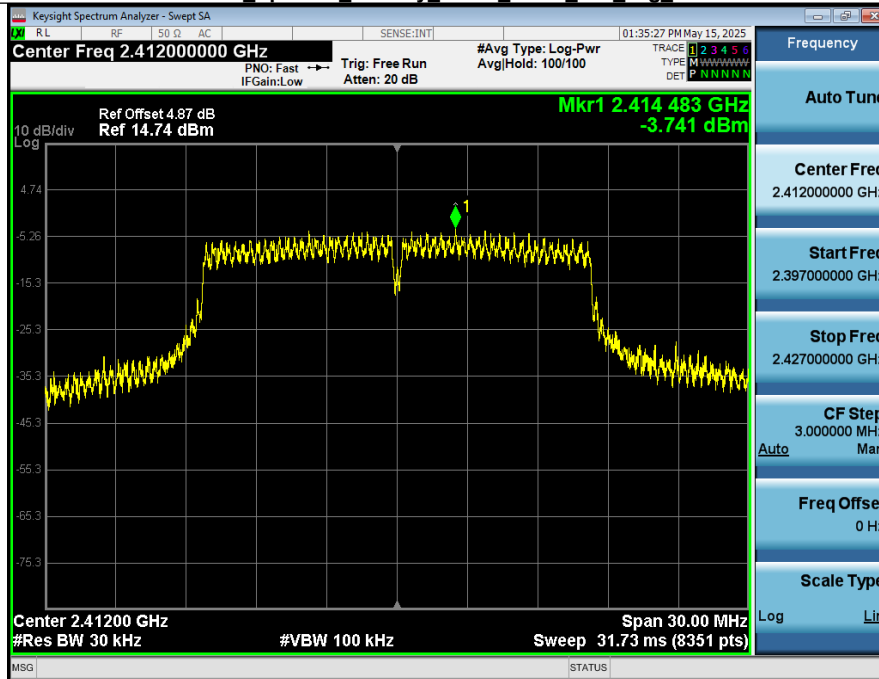
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



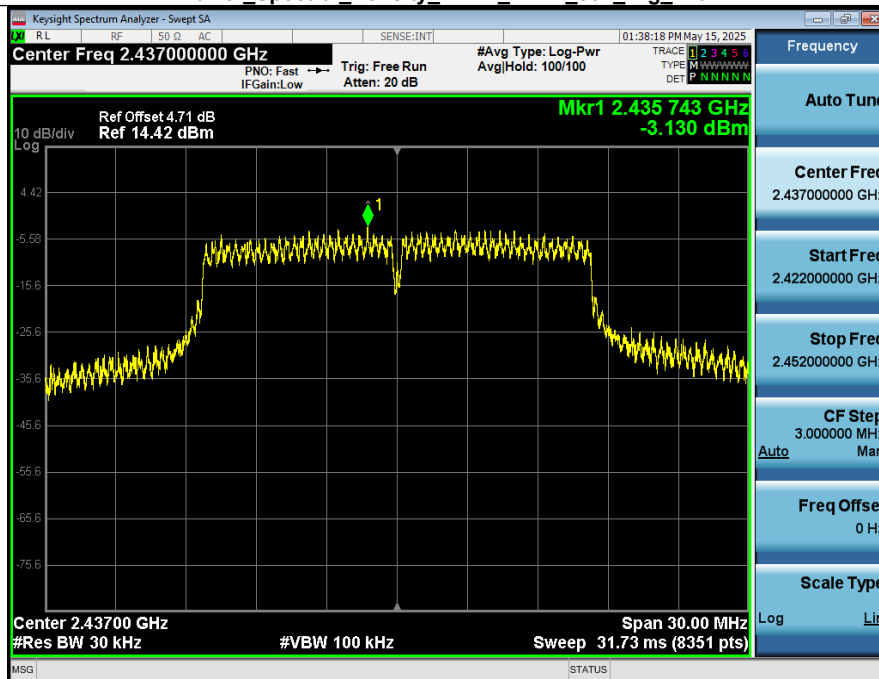
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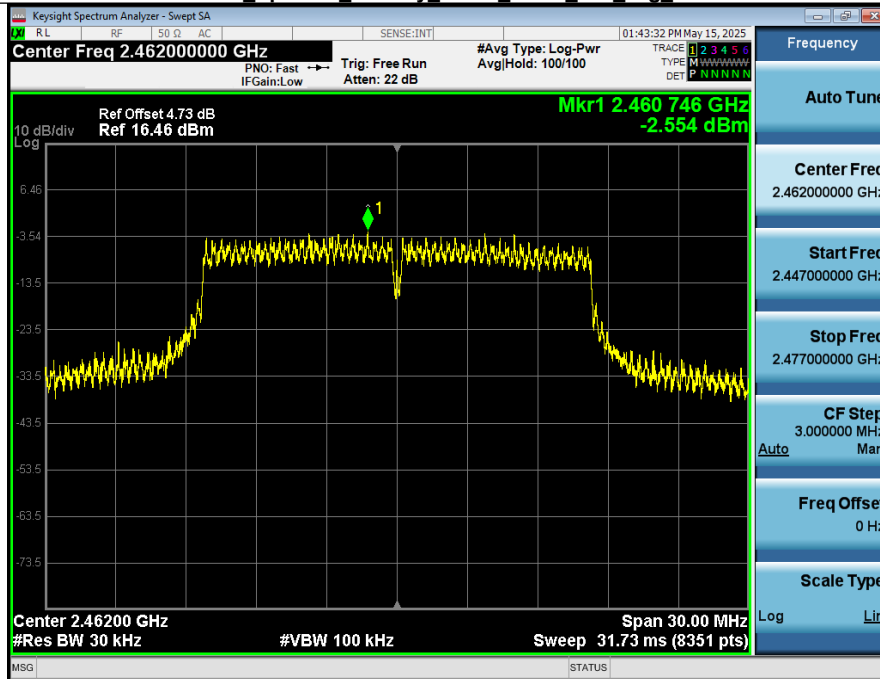
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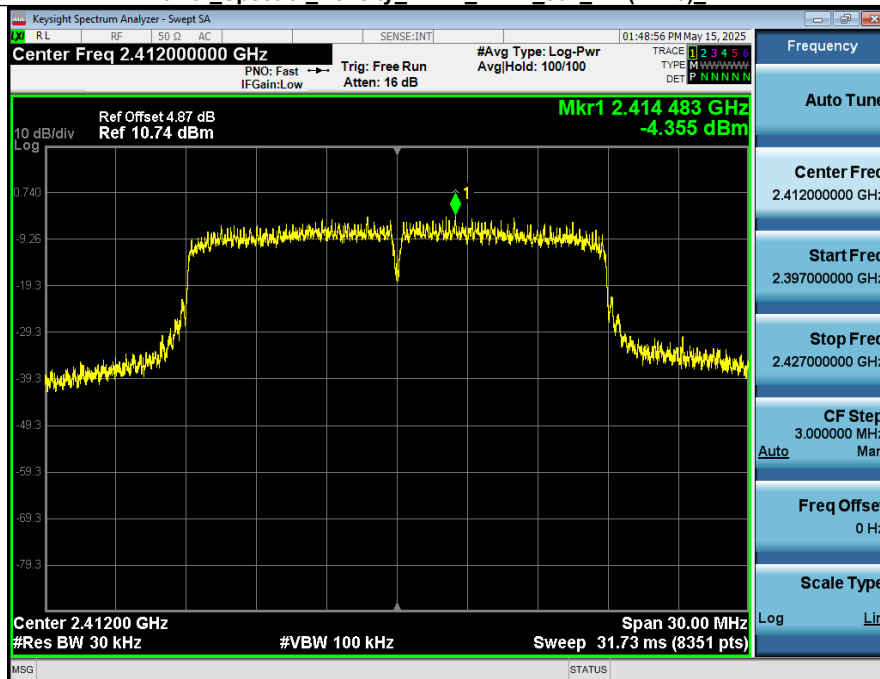
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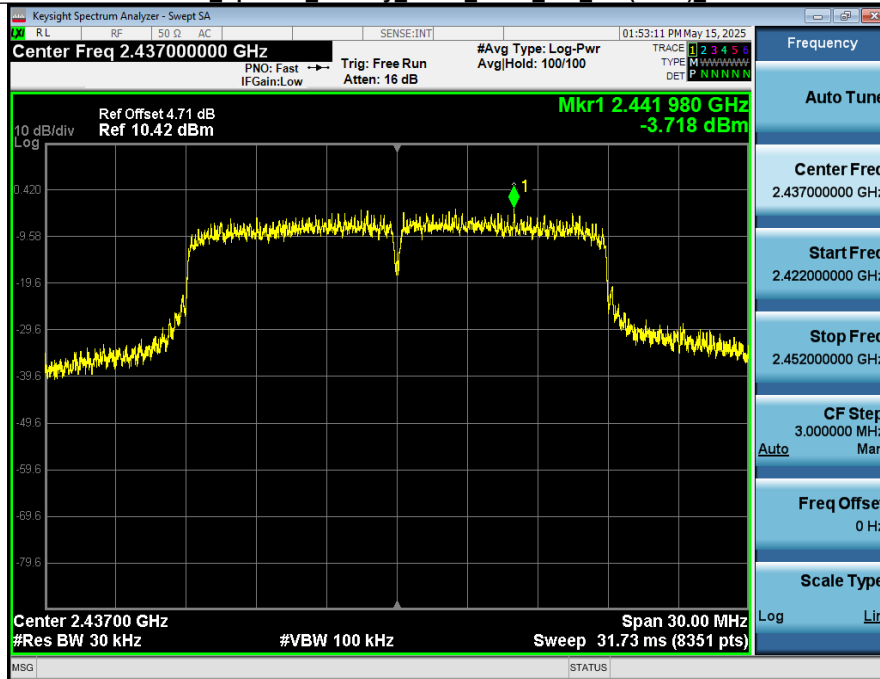
Power Spectral Density NVNT_ANT1_802_11g_2462



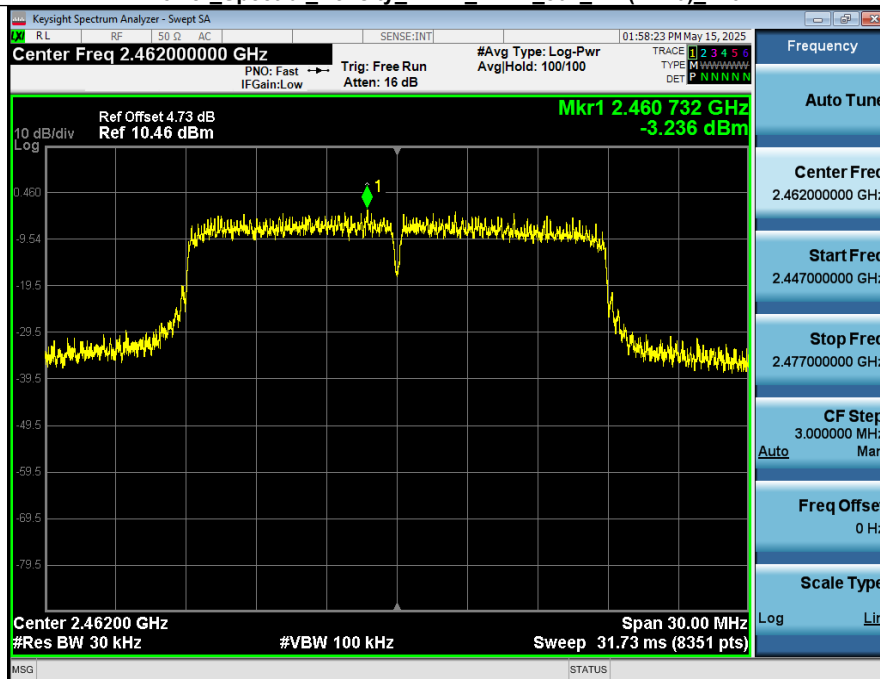
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



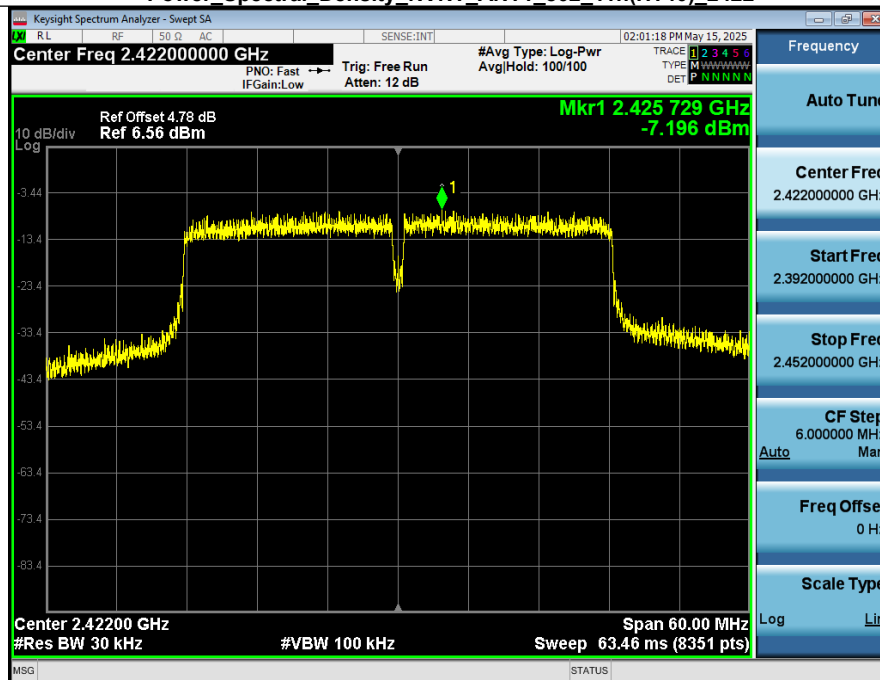
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



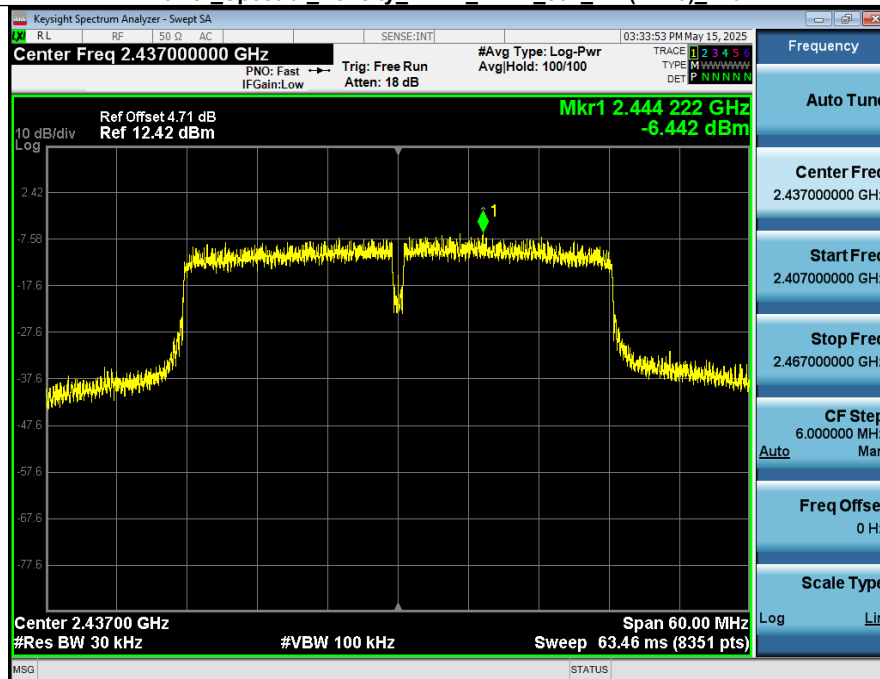
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462

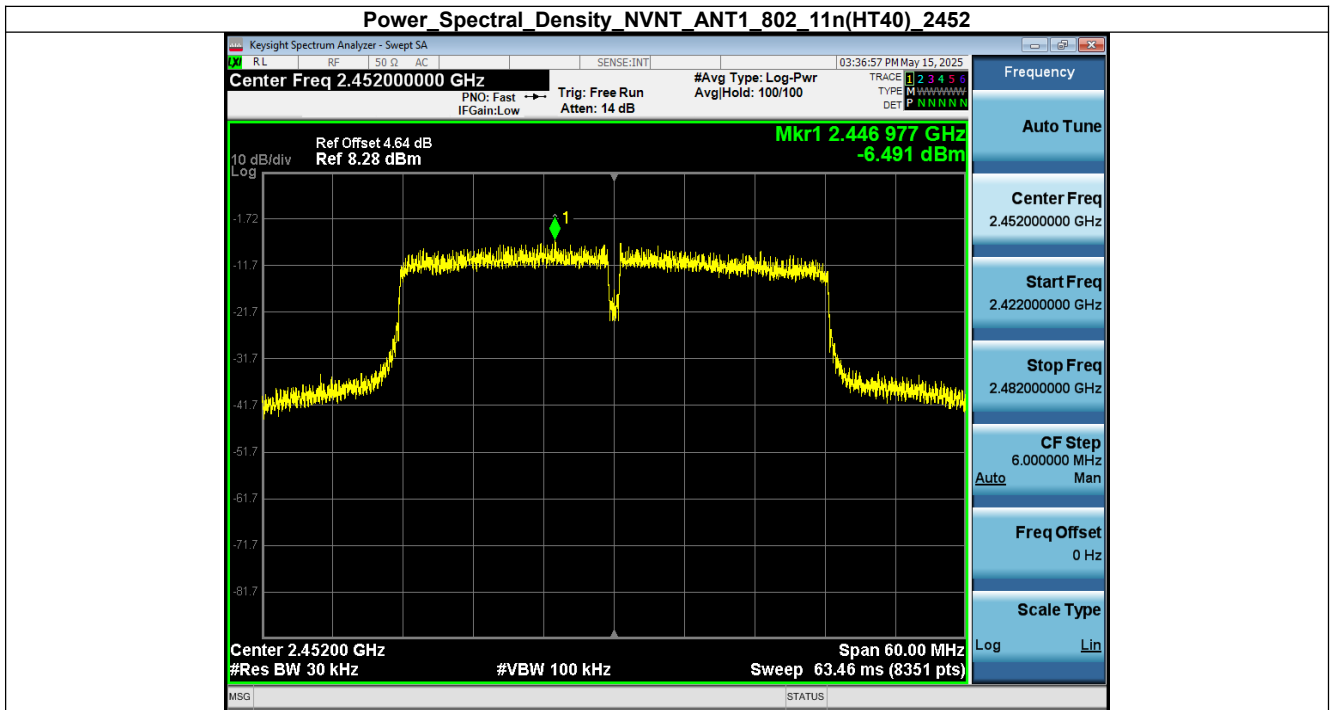


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437





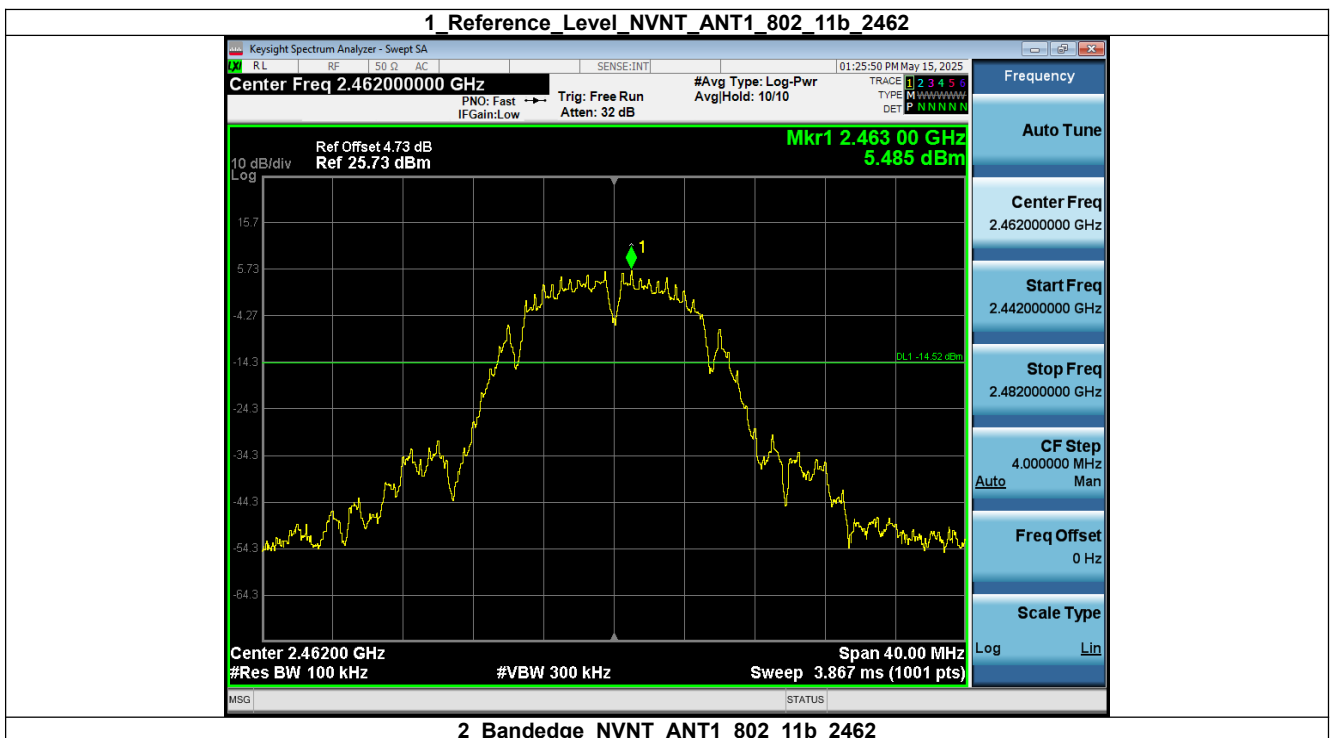
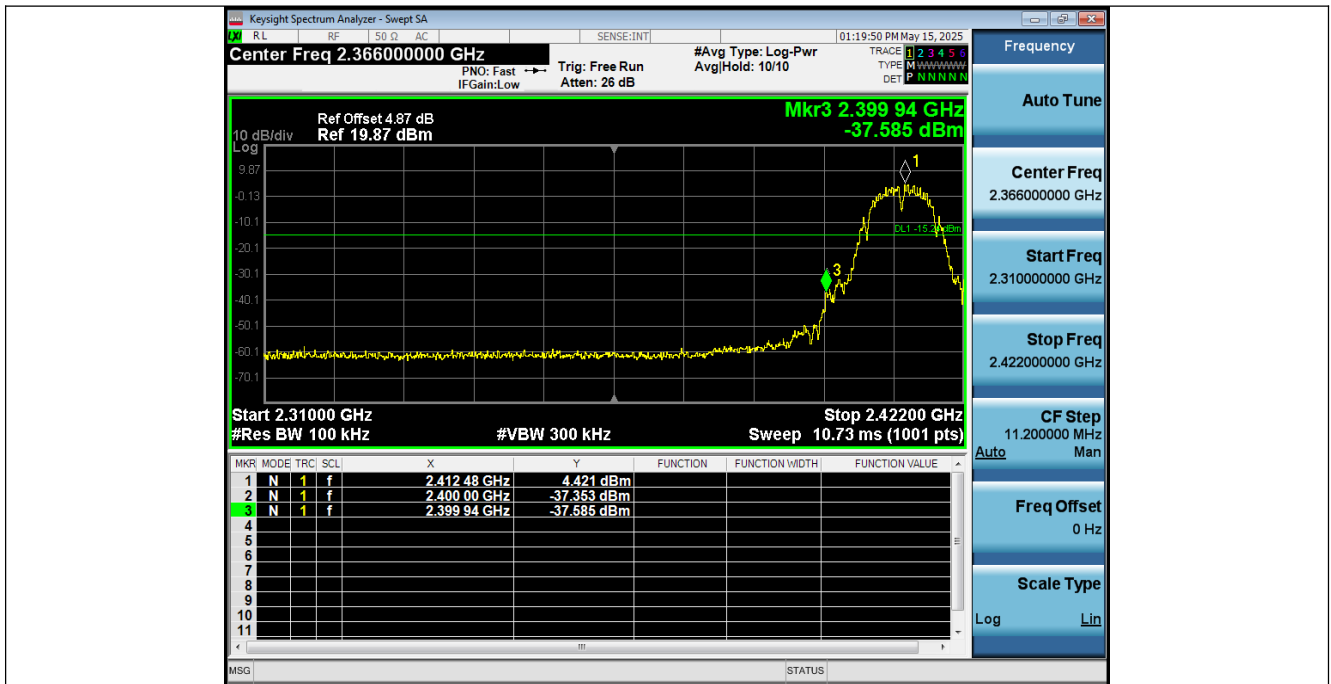
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	4.761	-37.585	-15.239	Pass
NVNT	ANT1	802.11b	2462.00	2485.792	5.485	-52.727	-14.515	Pass
NVNT	ANT1	802.11g	2412.00	2399.600	0.978	-29.639	-19.022	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	2.175	-37.532	-17.825	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.600	0.383	-29.702	-19.617	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	1.358	-36.815	-18.642	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.232	-1.895	-29.359	-21.895	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.816	-1.874	-34.852	-21.874	Pass

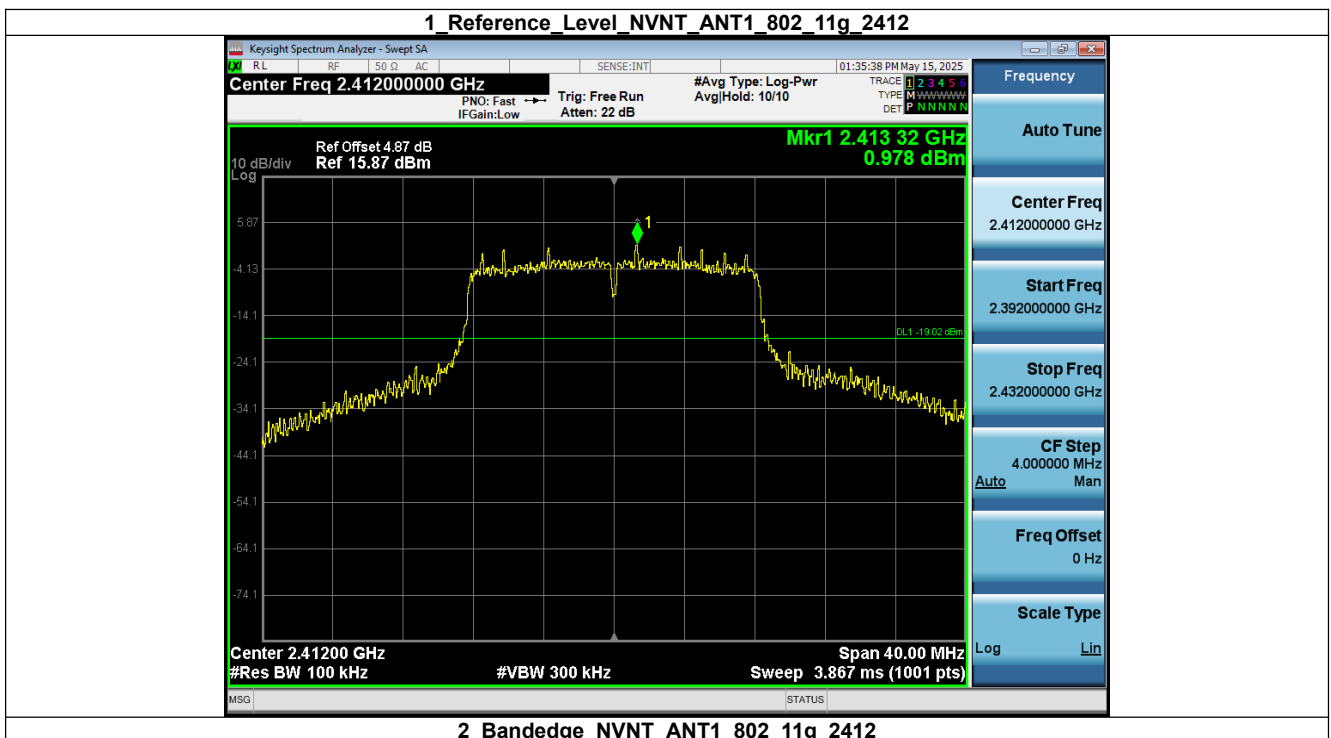
1 Reference_Level_NVNT_ANT1_802_11b_2412

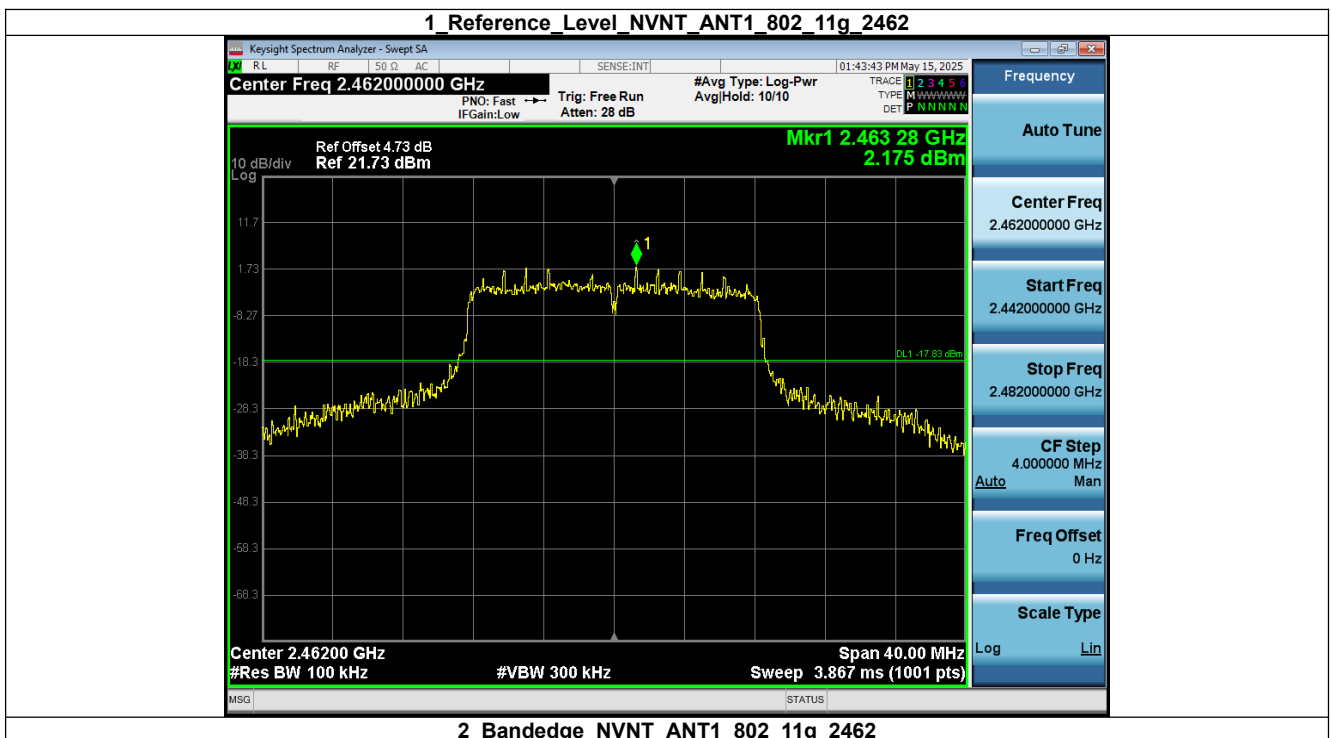
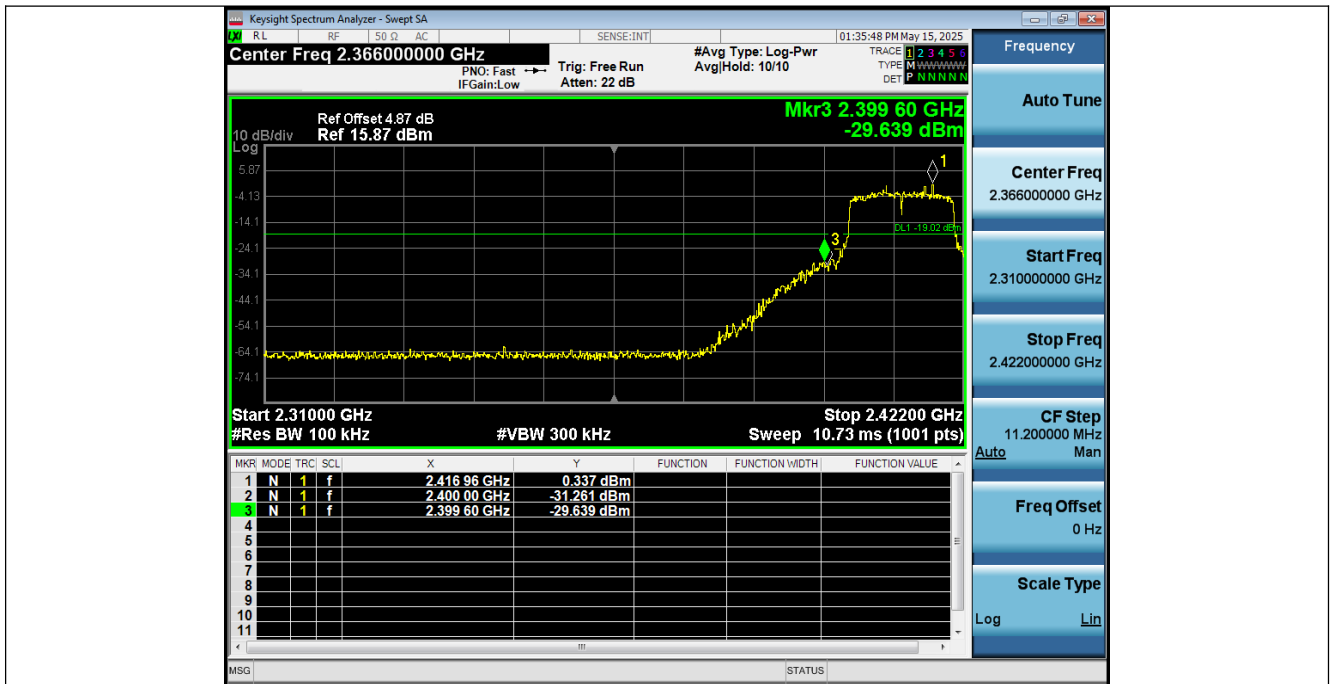


2 Bandedge_NVNT_ANT1_802_11b_2412

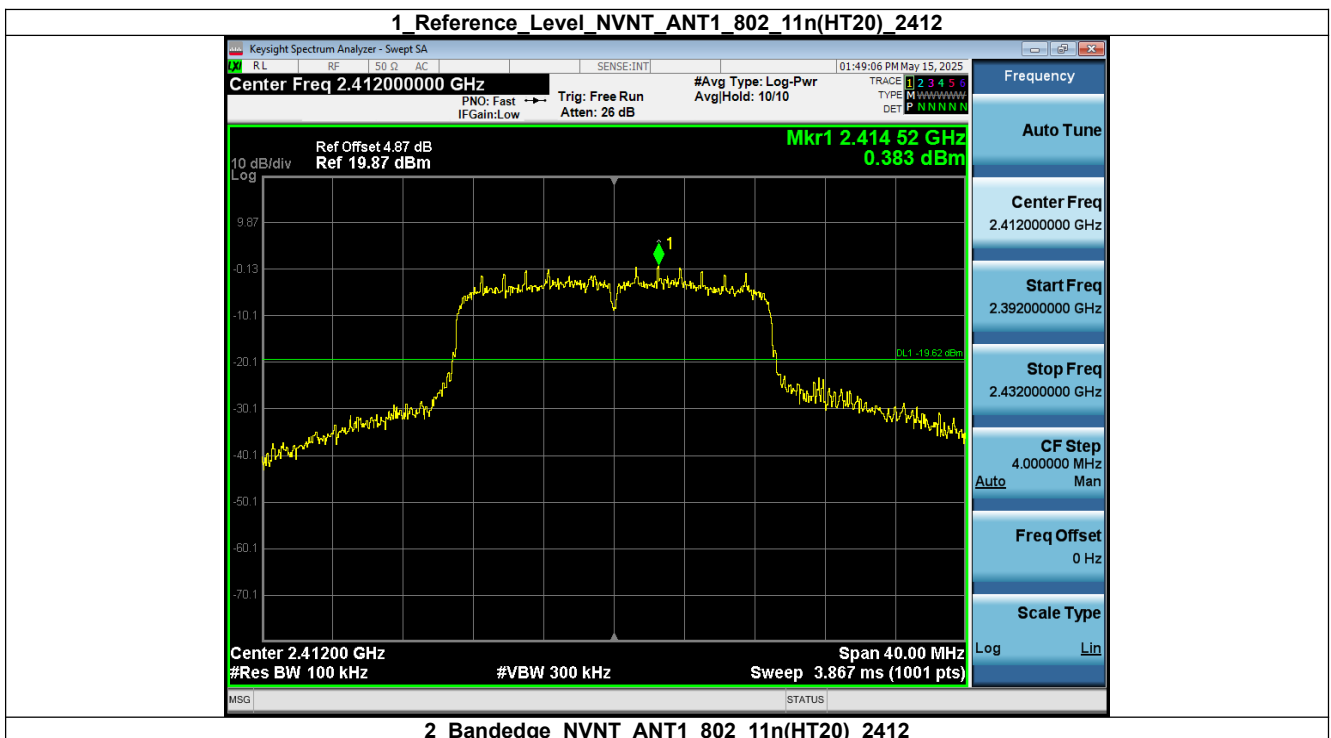


2_Bandedge_NVNT_ANT1_802_11b_2462

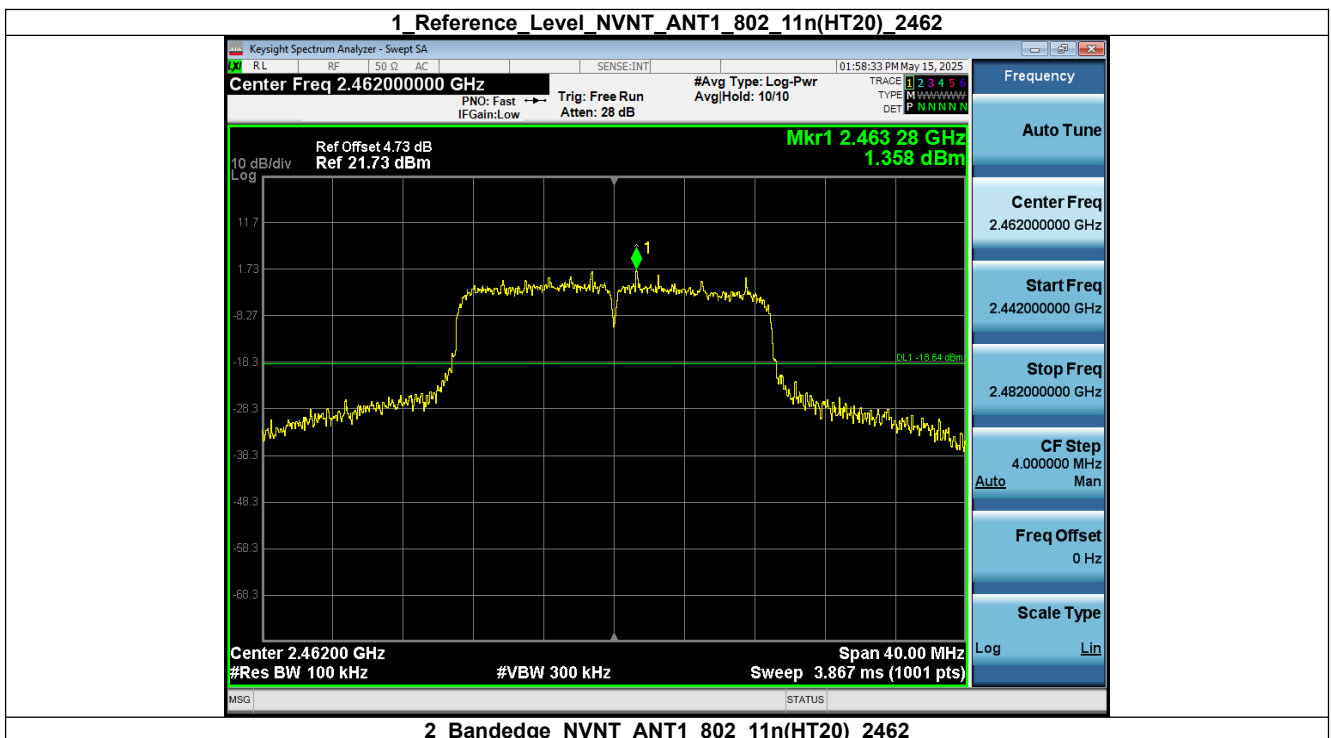
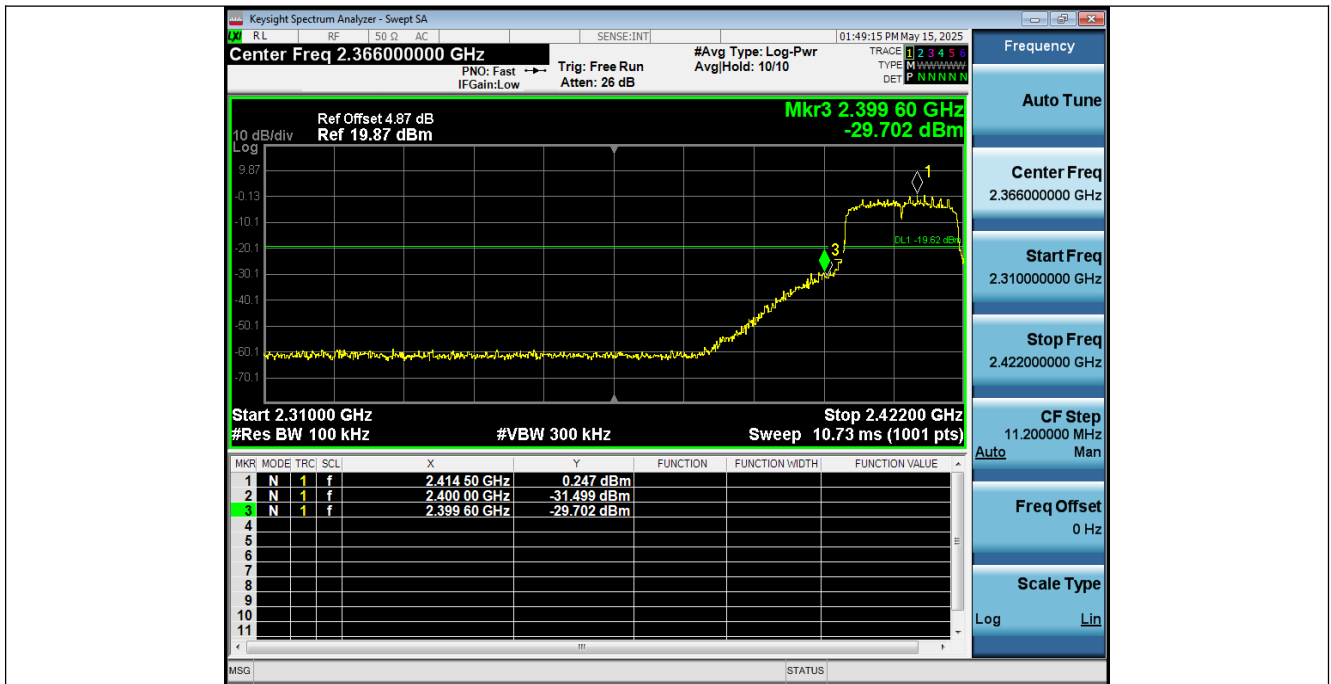




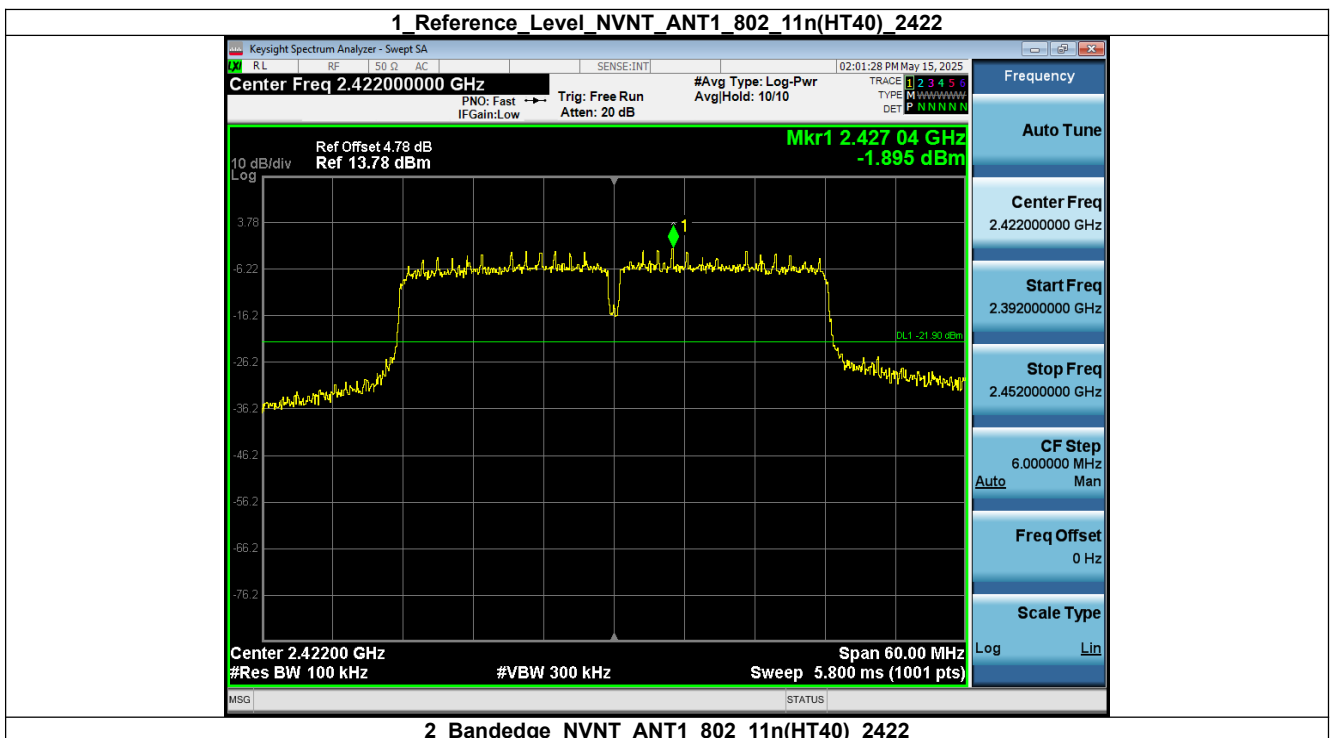
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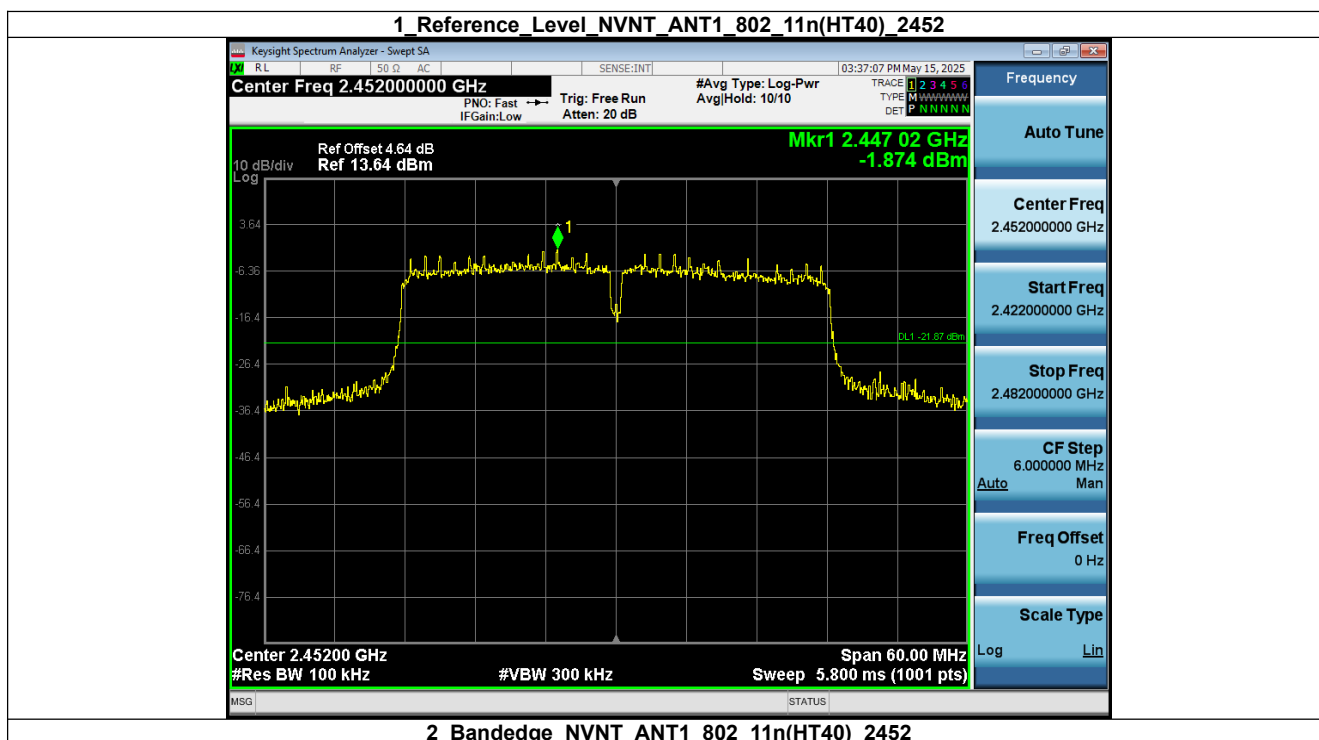
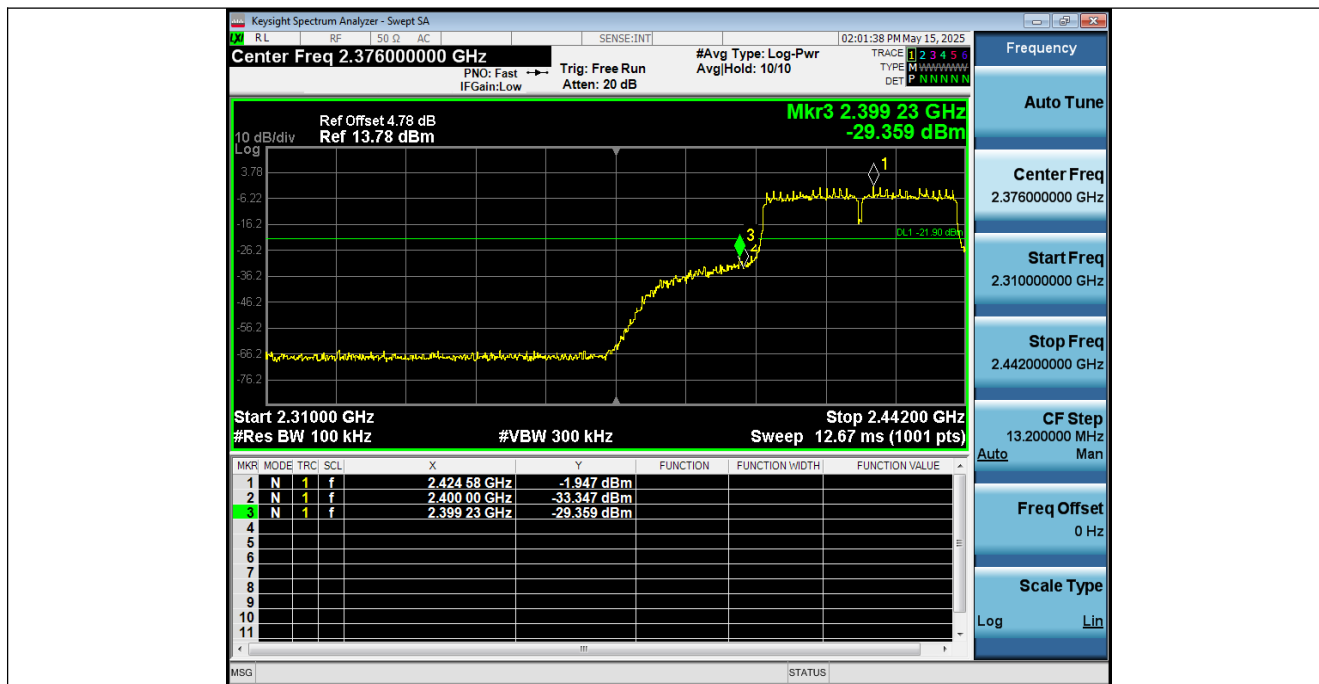
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



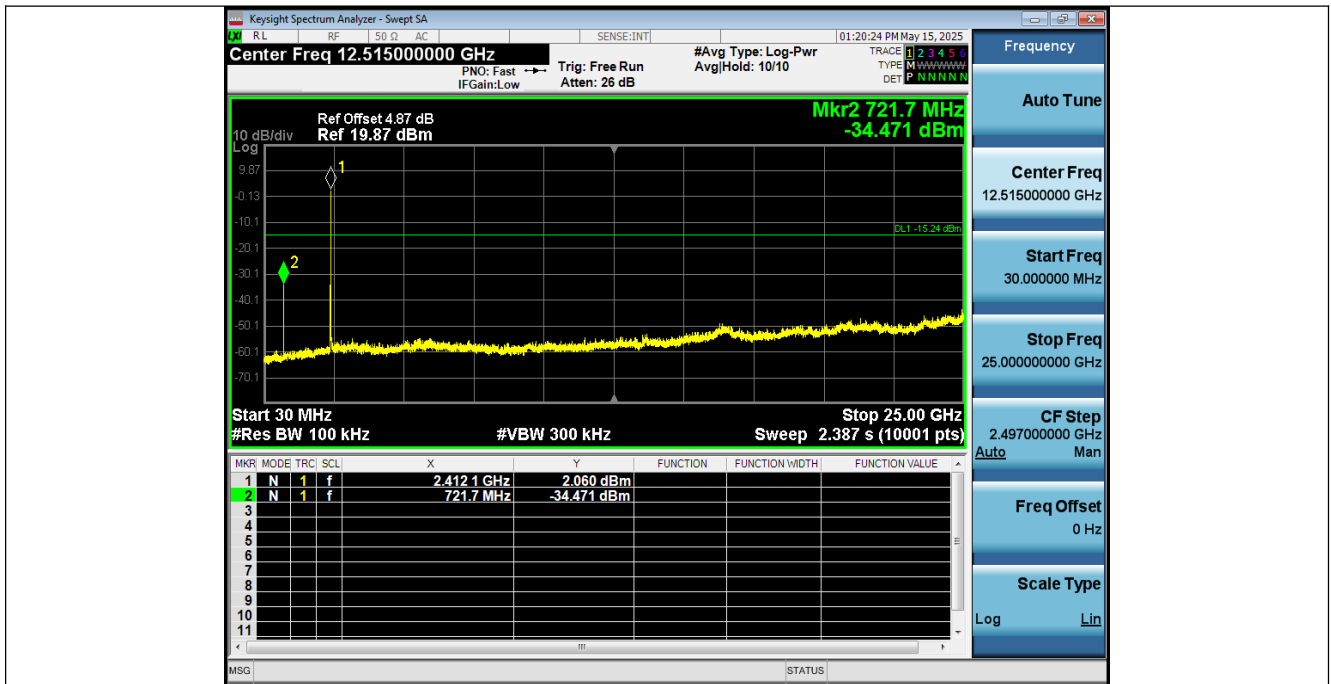
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	721.669	4.761	-34.471	-15.239	Pass
NVNT	ANT1	802.11b	2437.00	24480.624	4.673	-44.499	-15.327	Pass
NVNT	ANT1	802.11b	2462.00	24997.503	5.485	-39.891	-14.515	Pass
NVNT	ANT1	802.11g	2412.00	24430.684	0.978	-49.508	-19.022	Pass
NVNT	ANT1	802.11g	2437.00	721.669	0.994	-39.516	-19.006	Pass
NVNT	ANT1	802.11g	2462.00	24992.509	2.175	-42.650	-17.825	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	729.160	0.383	-44.624	-19.617	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	706.687	0.823	-46.056	-19.177	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	911.441	1.358	-33.483	-18.642	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24982.521	-1.895	-50.988	-21.895	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	721.669	-1.466	-44.903	-21.466	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	898.956	-1.874	-36.347	-21.874	Pass

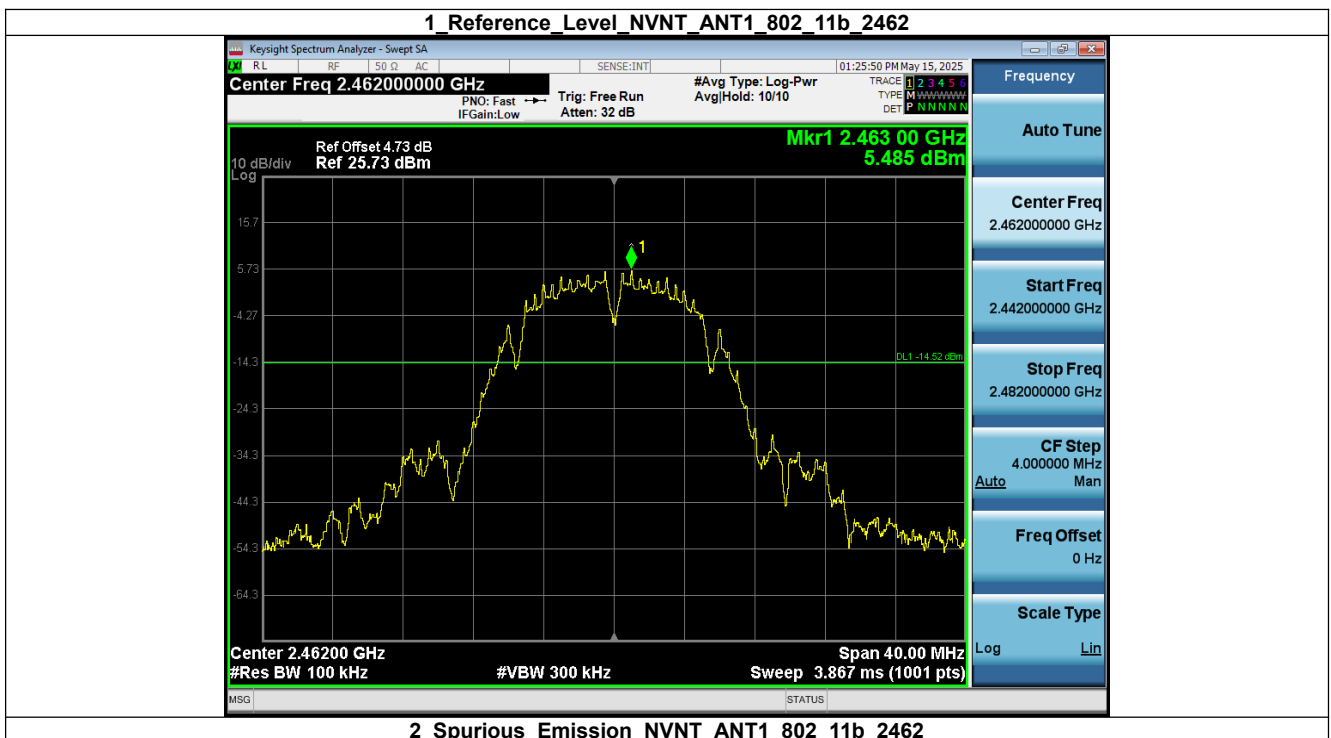
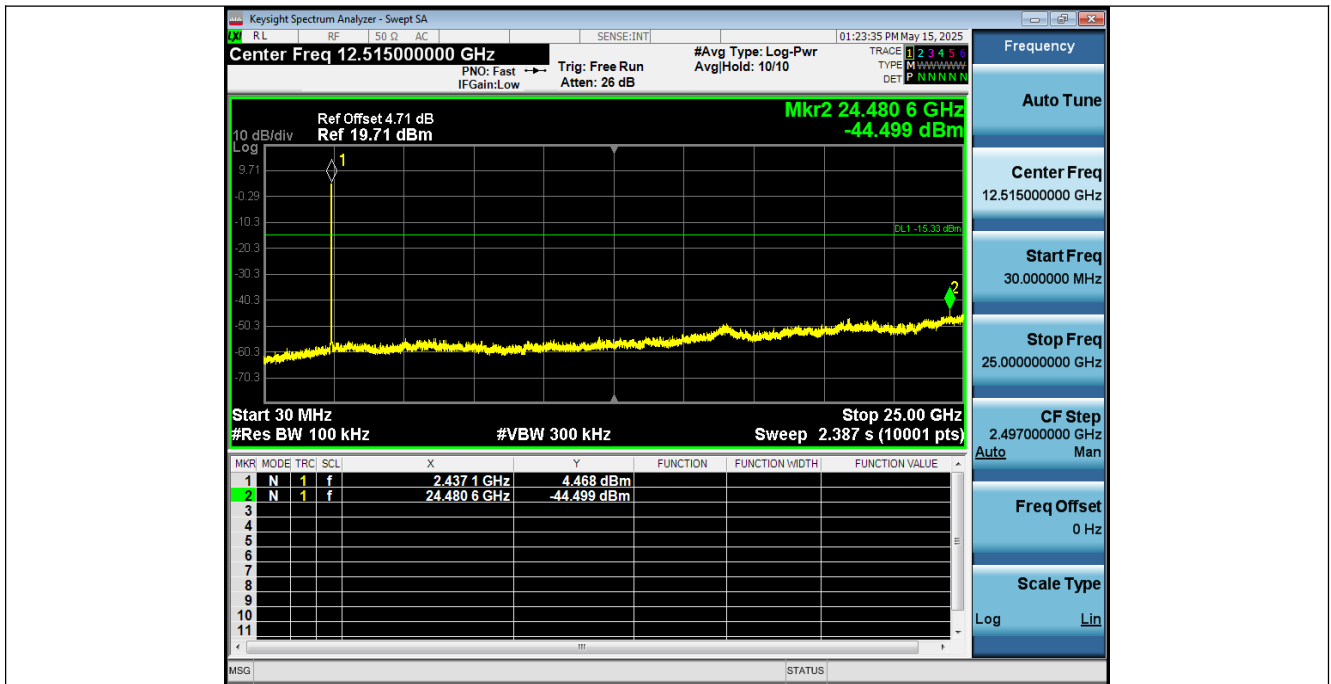
1 Reference_Level_NVNT_ANT1_802_11b_2412



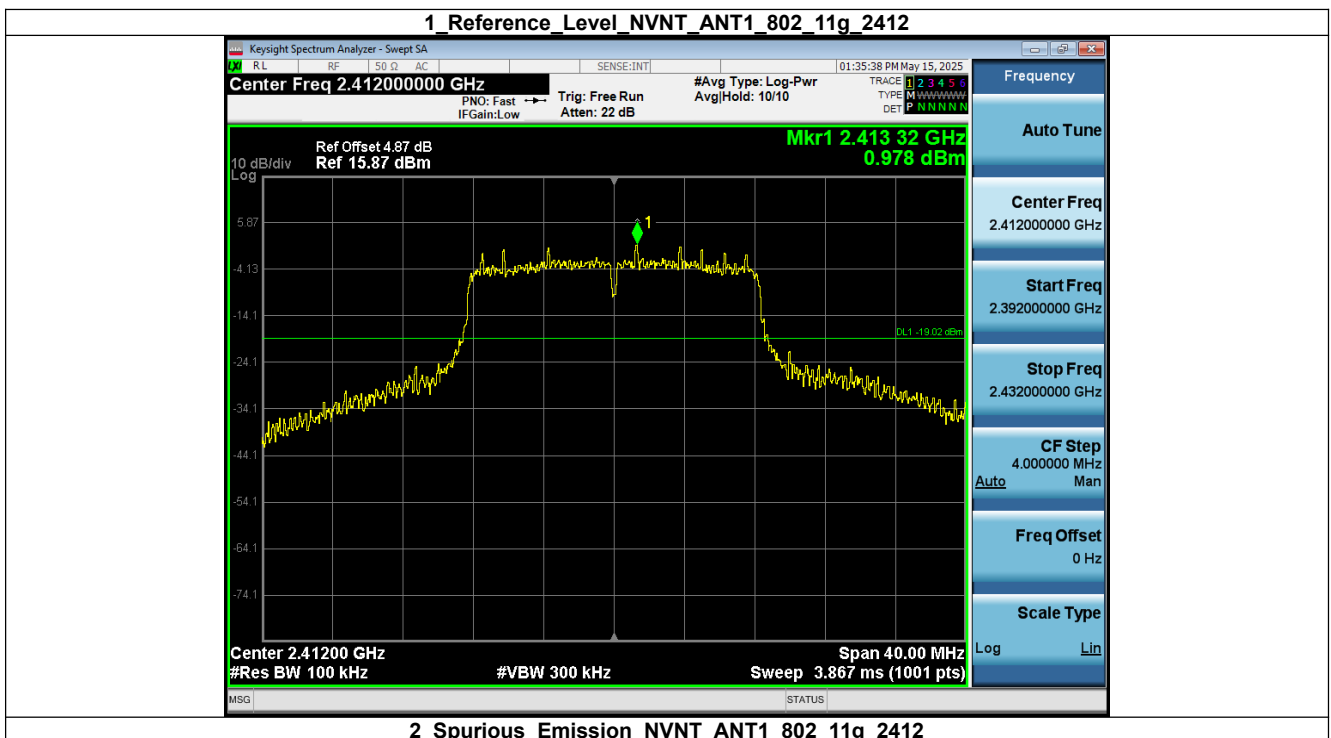
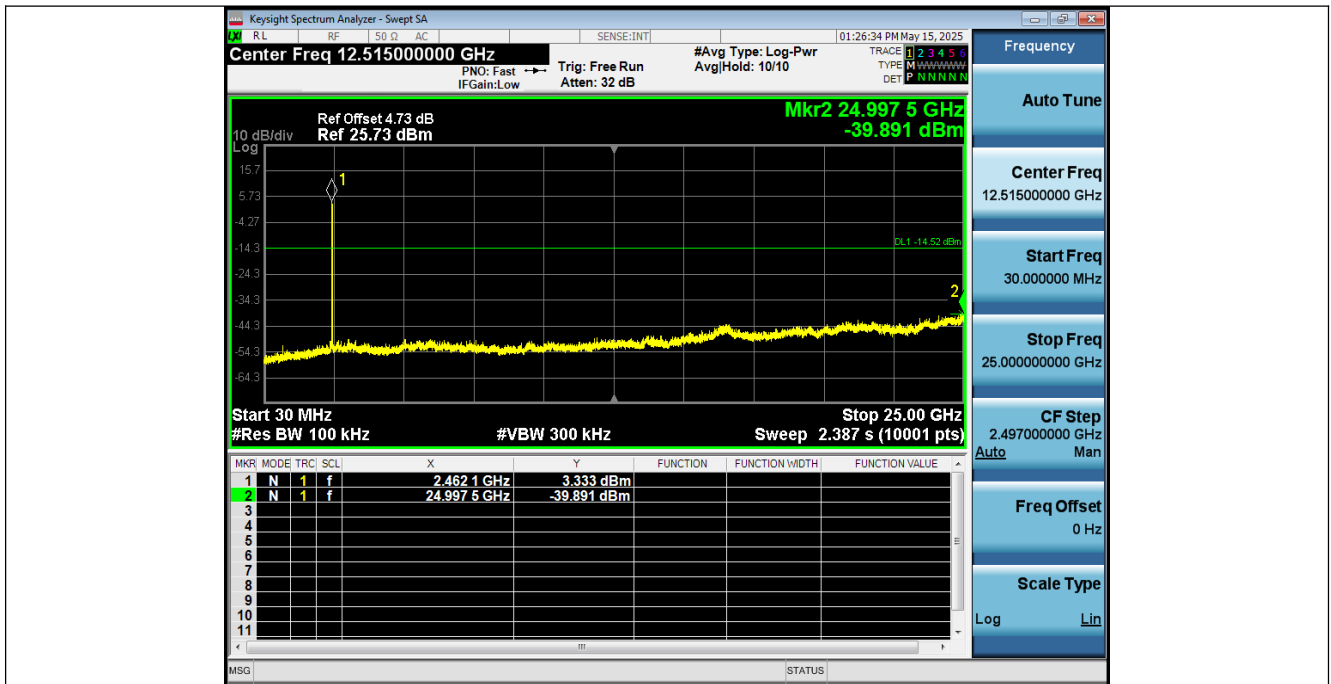
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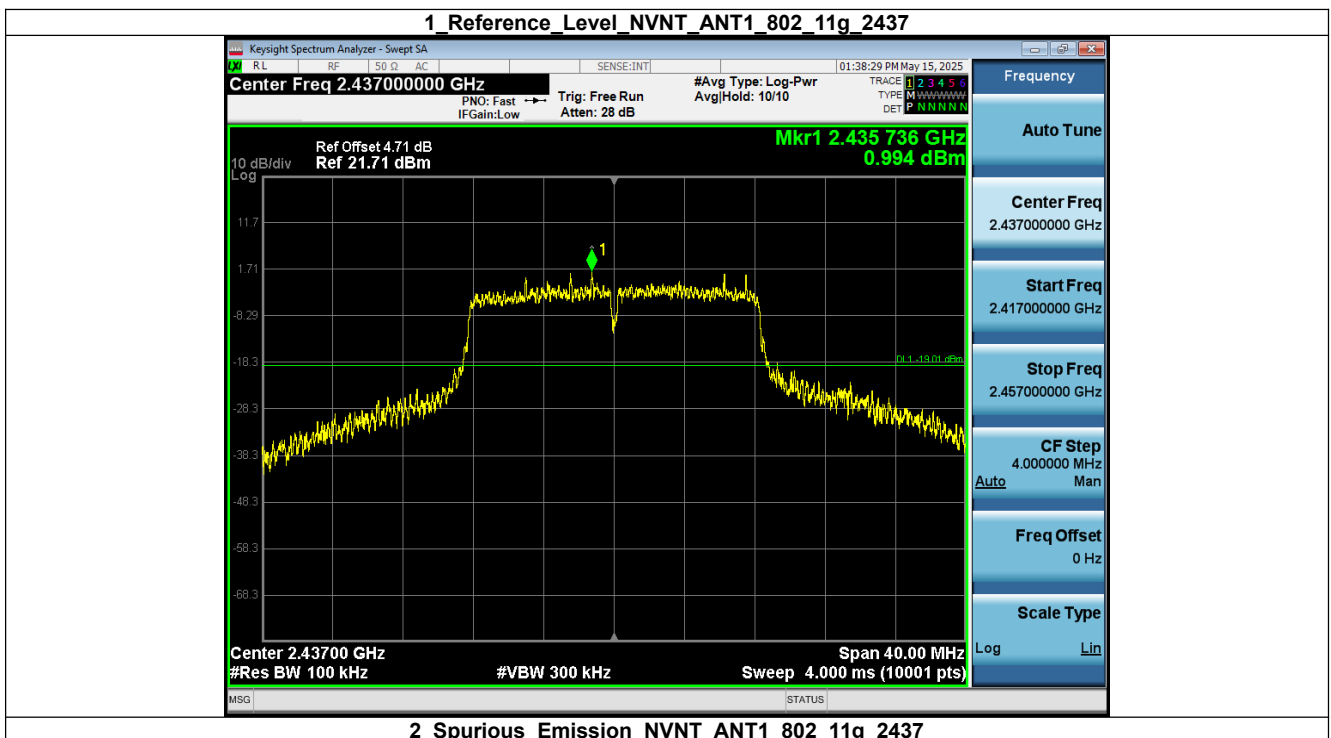
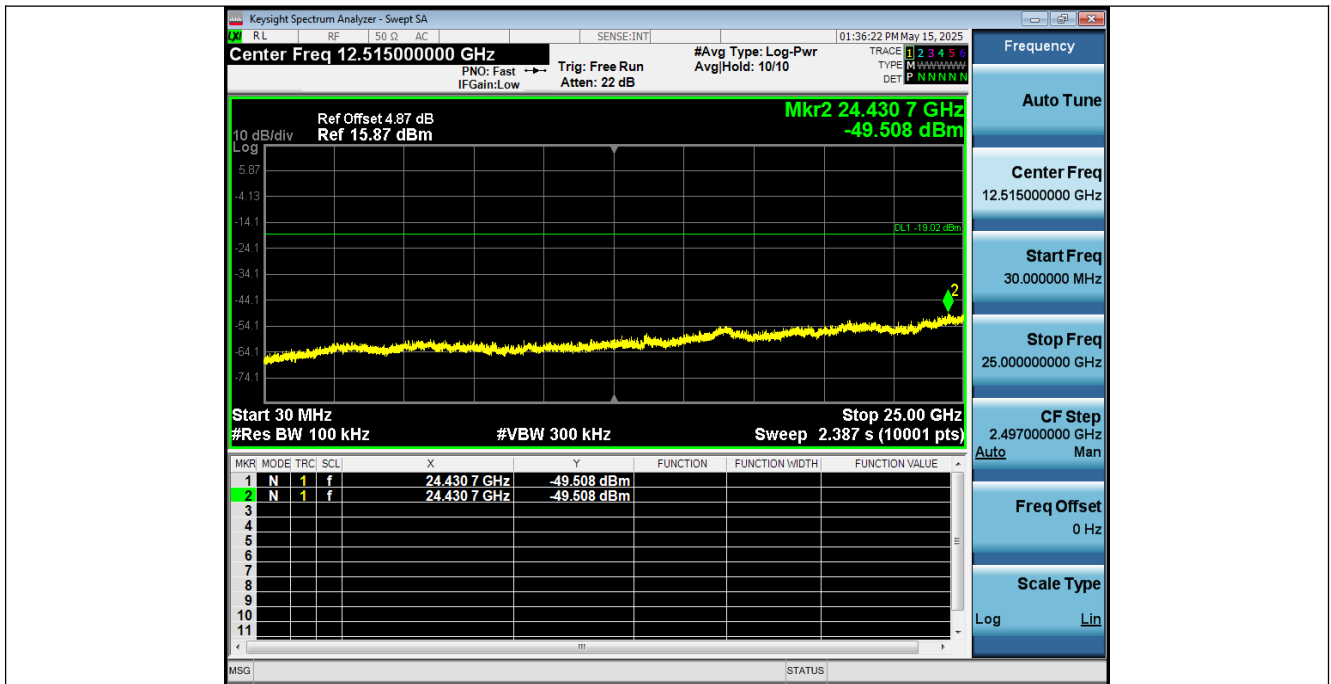
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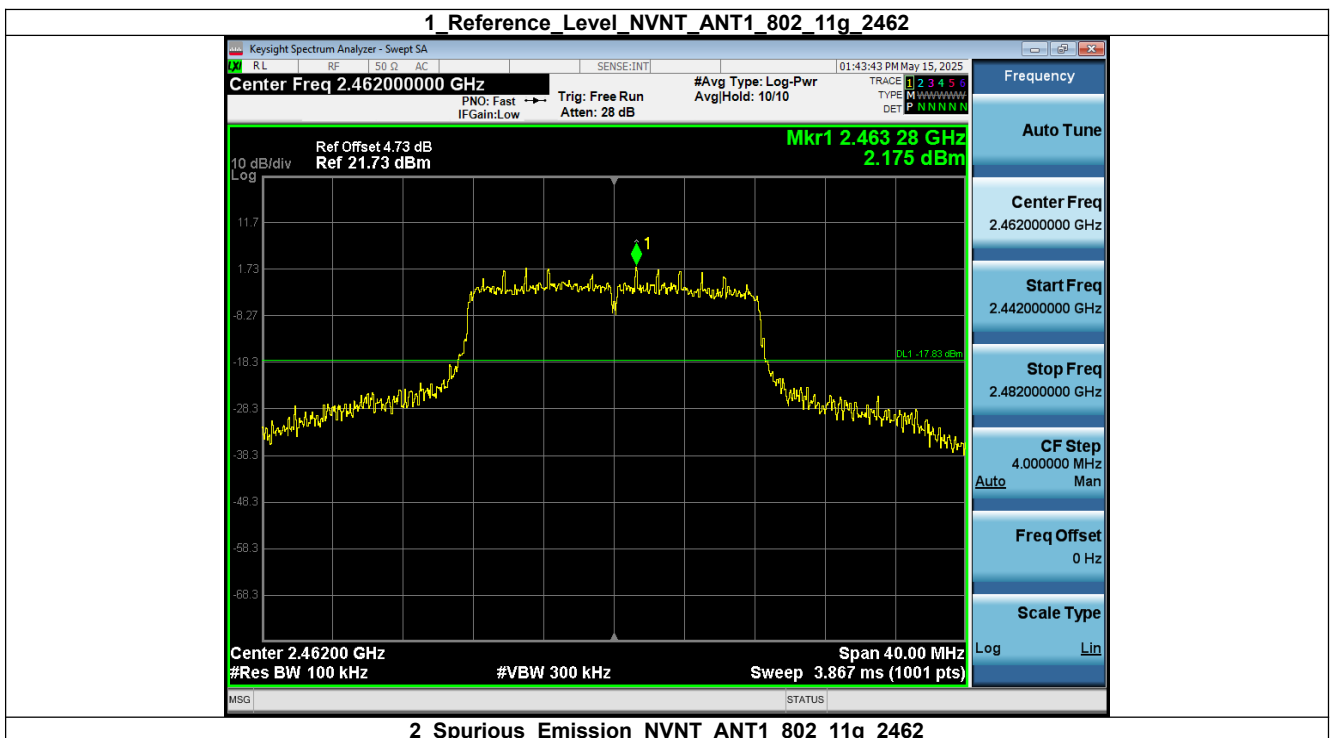
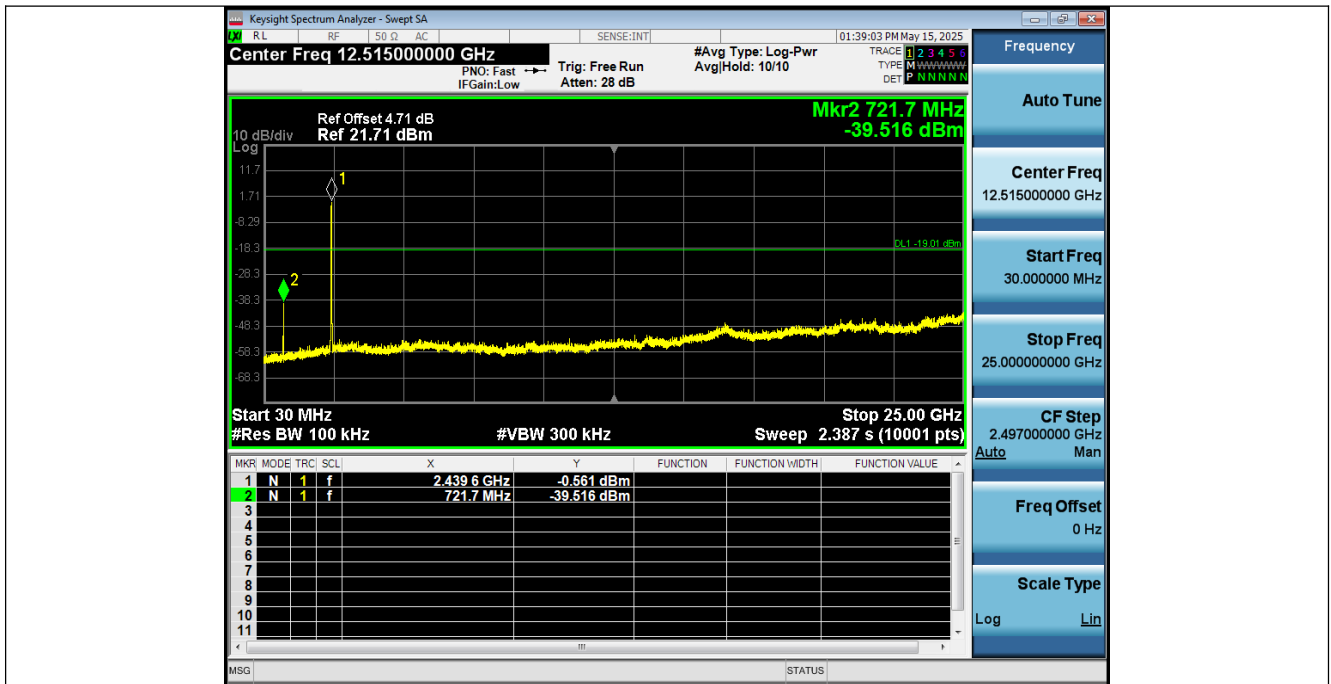
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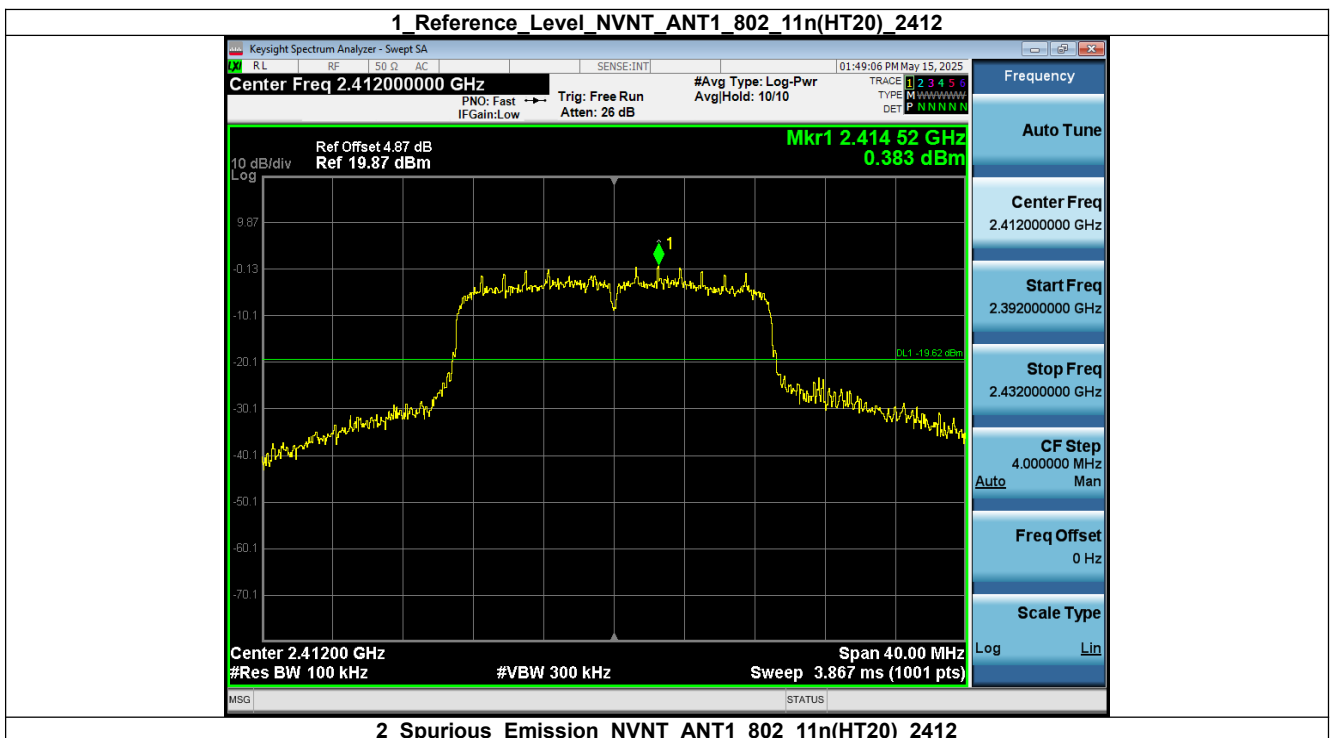
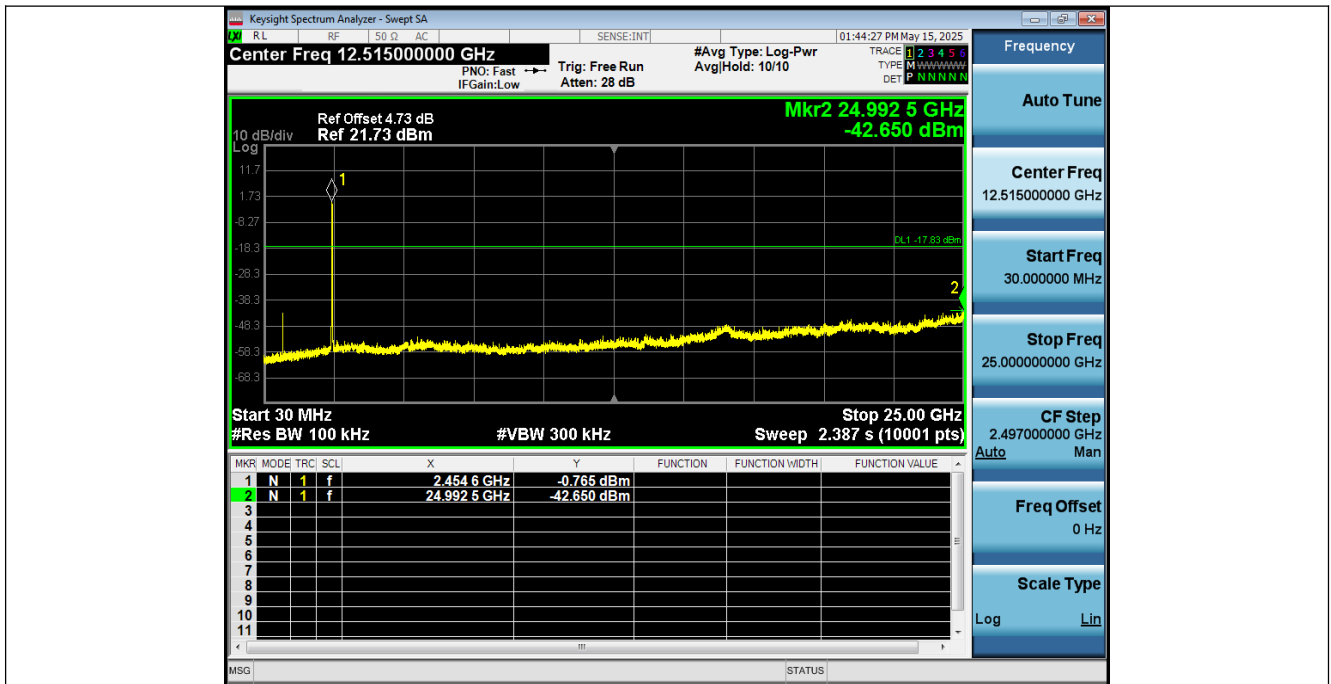
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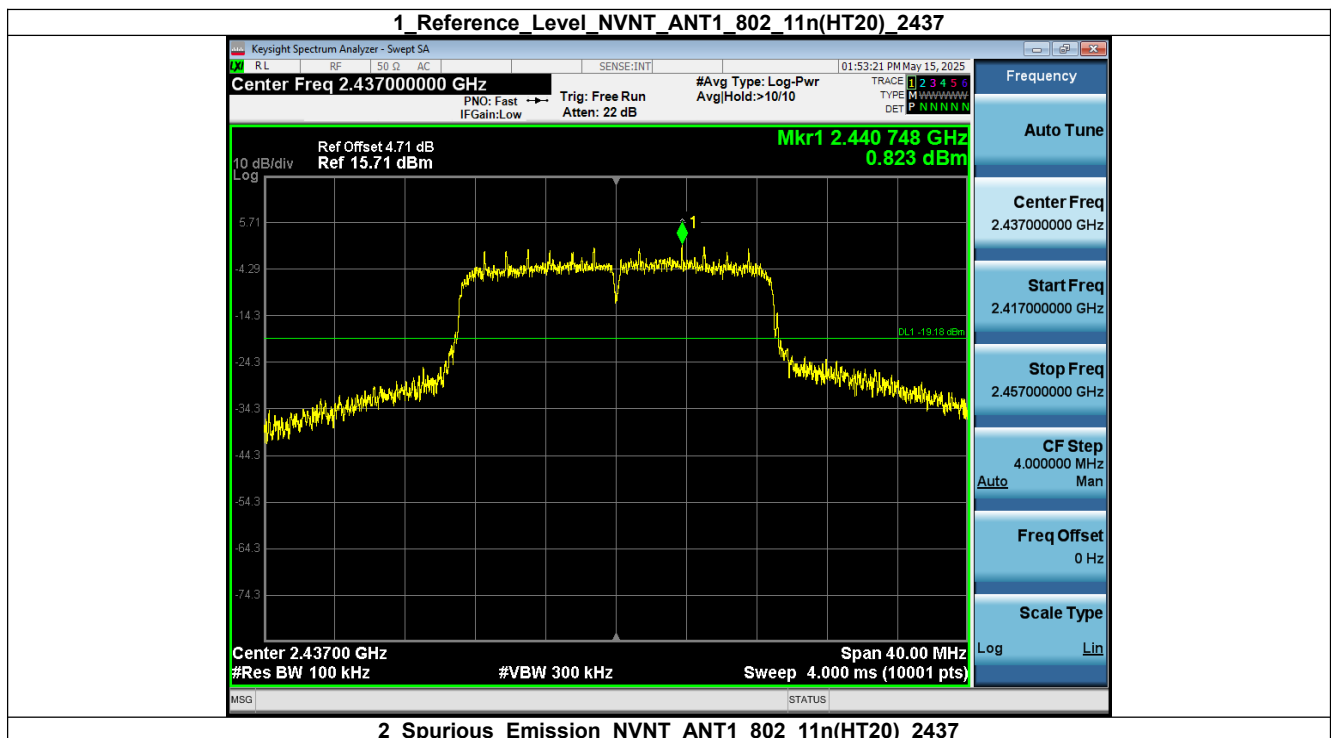
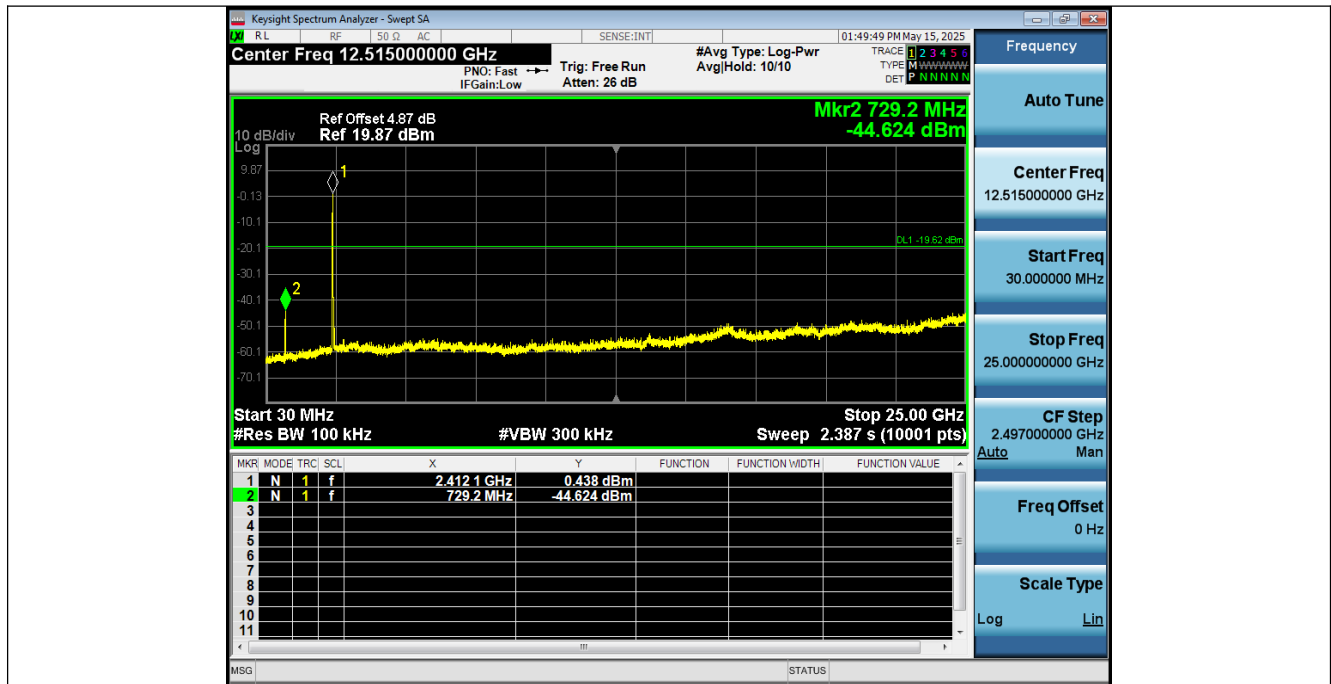
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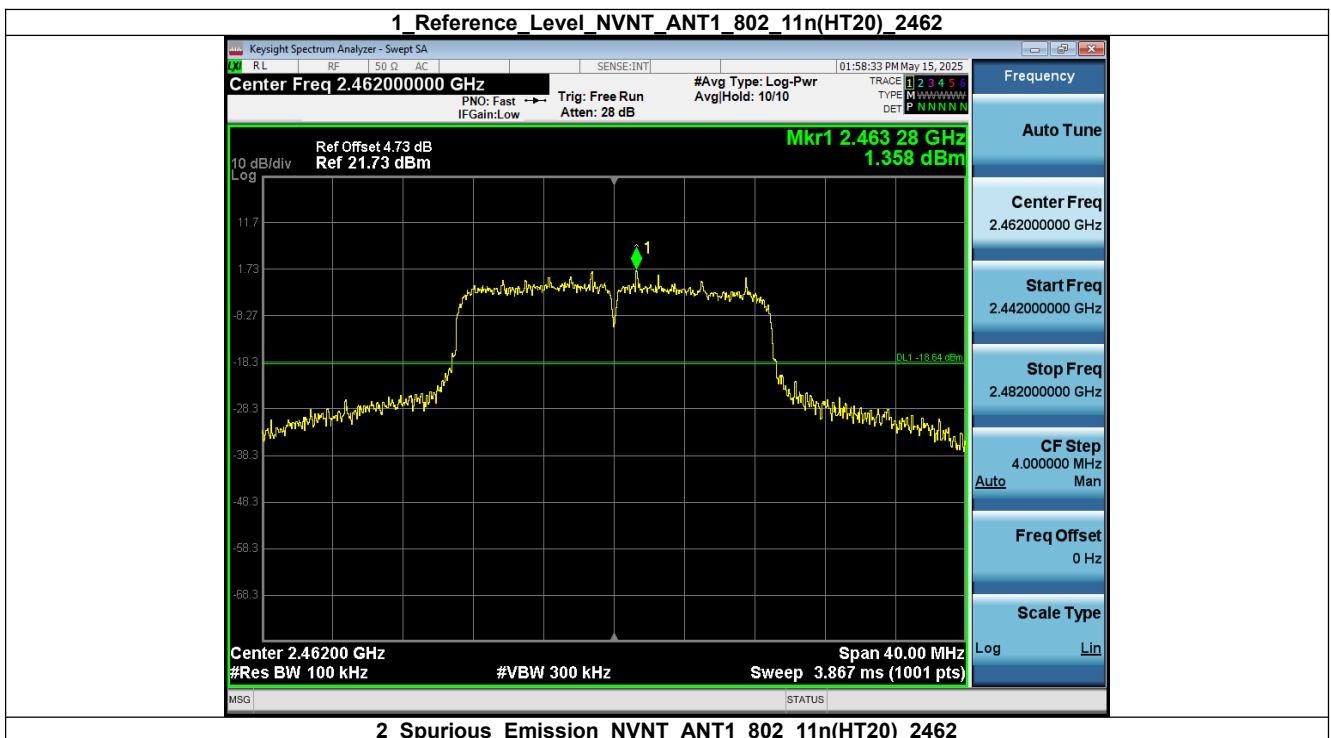
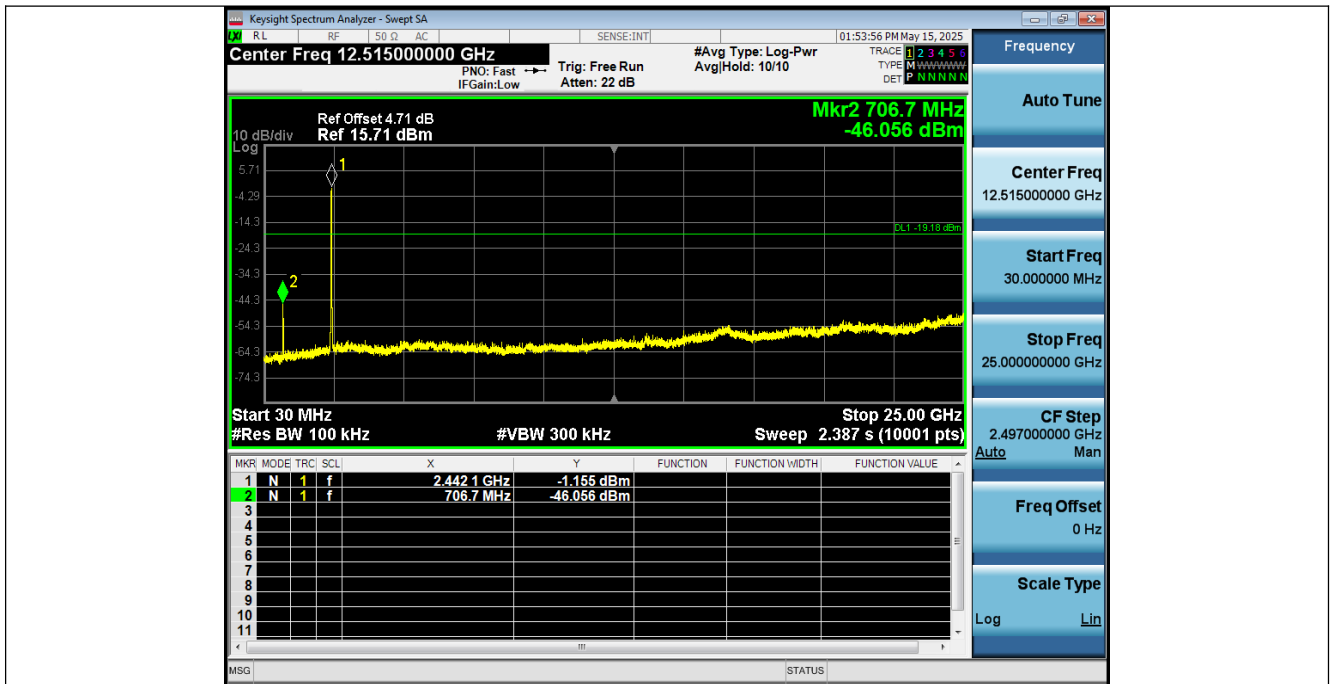
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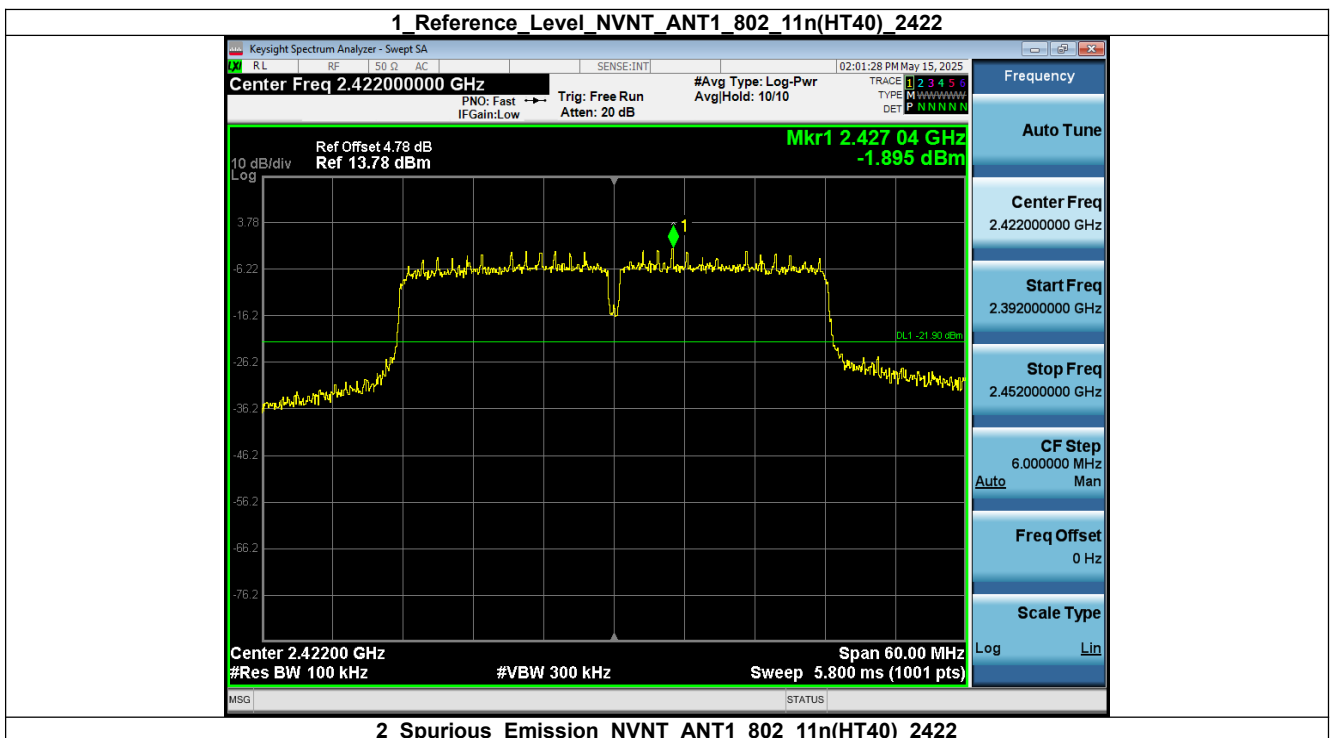
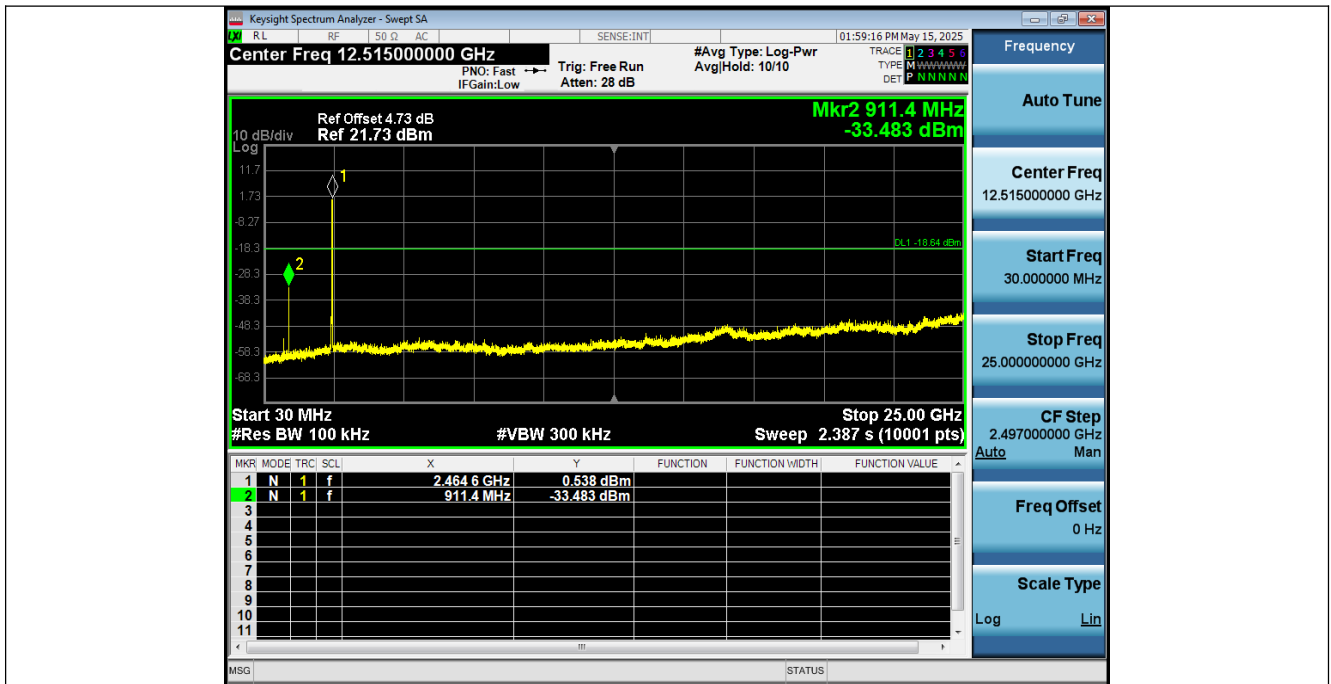
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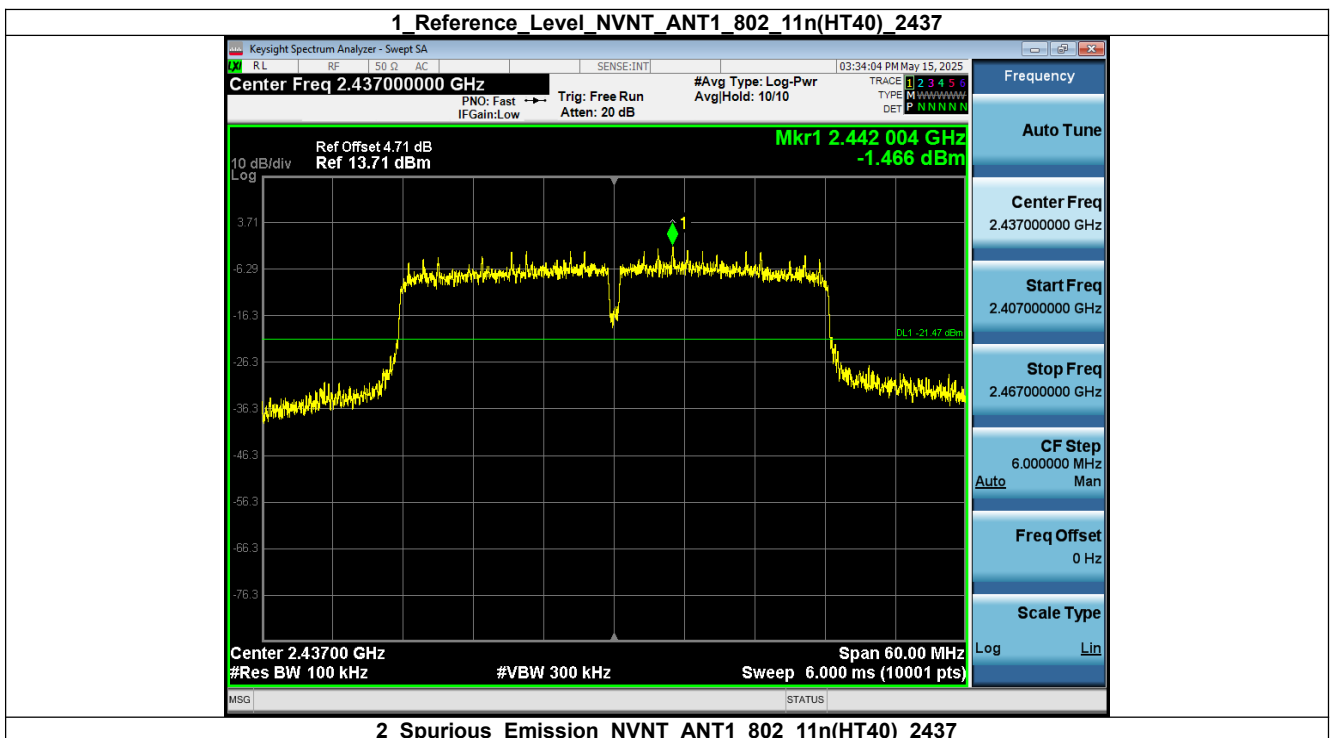
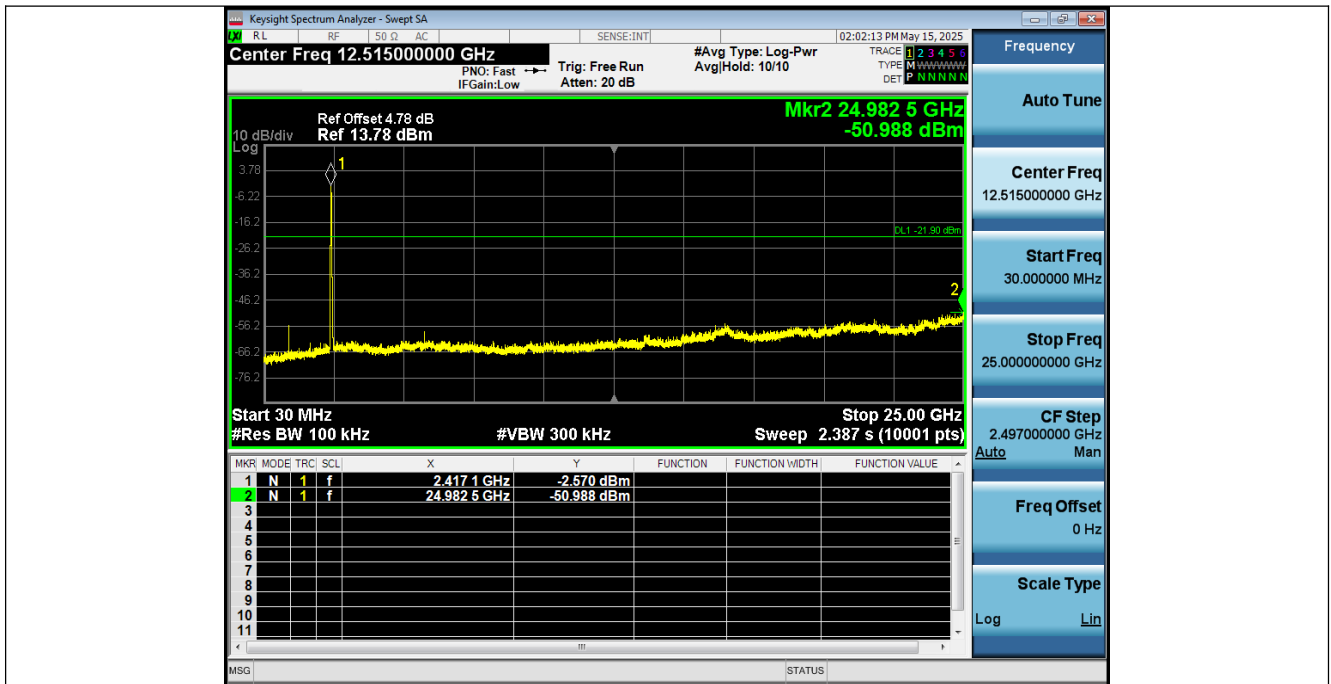
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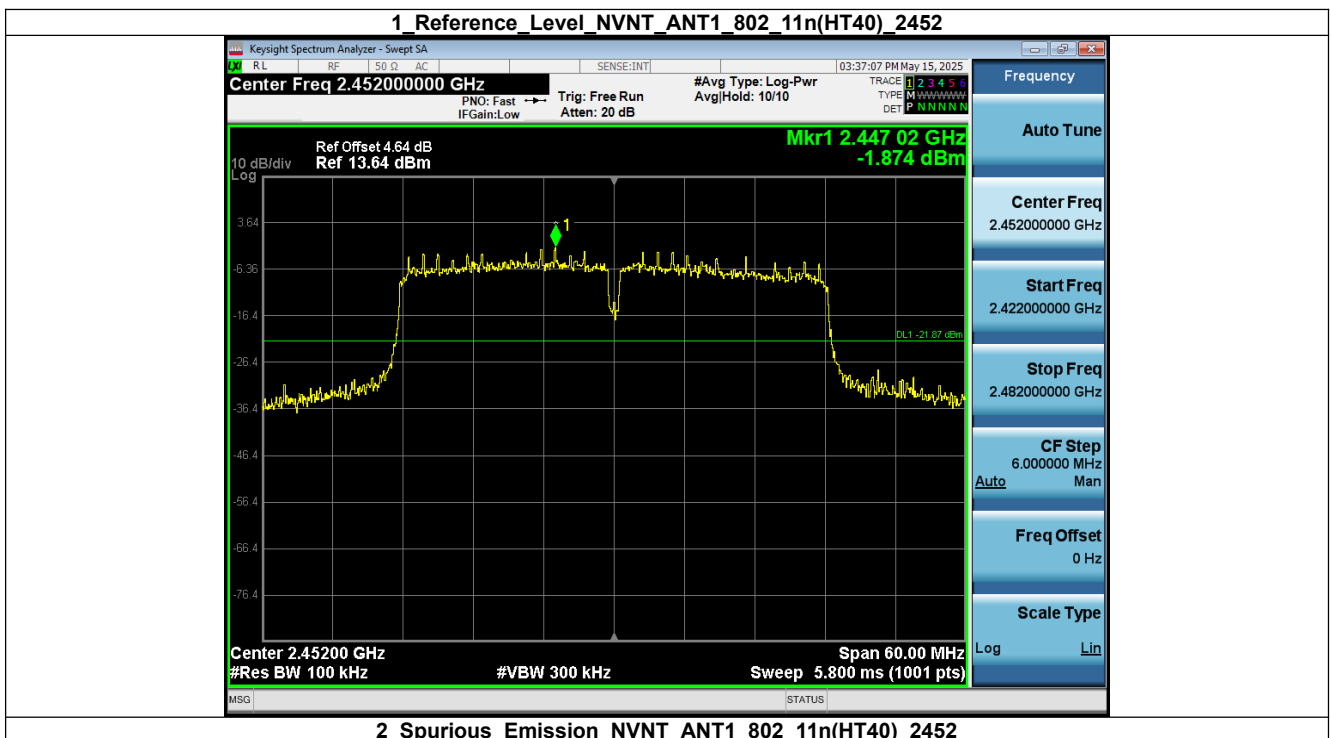
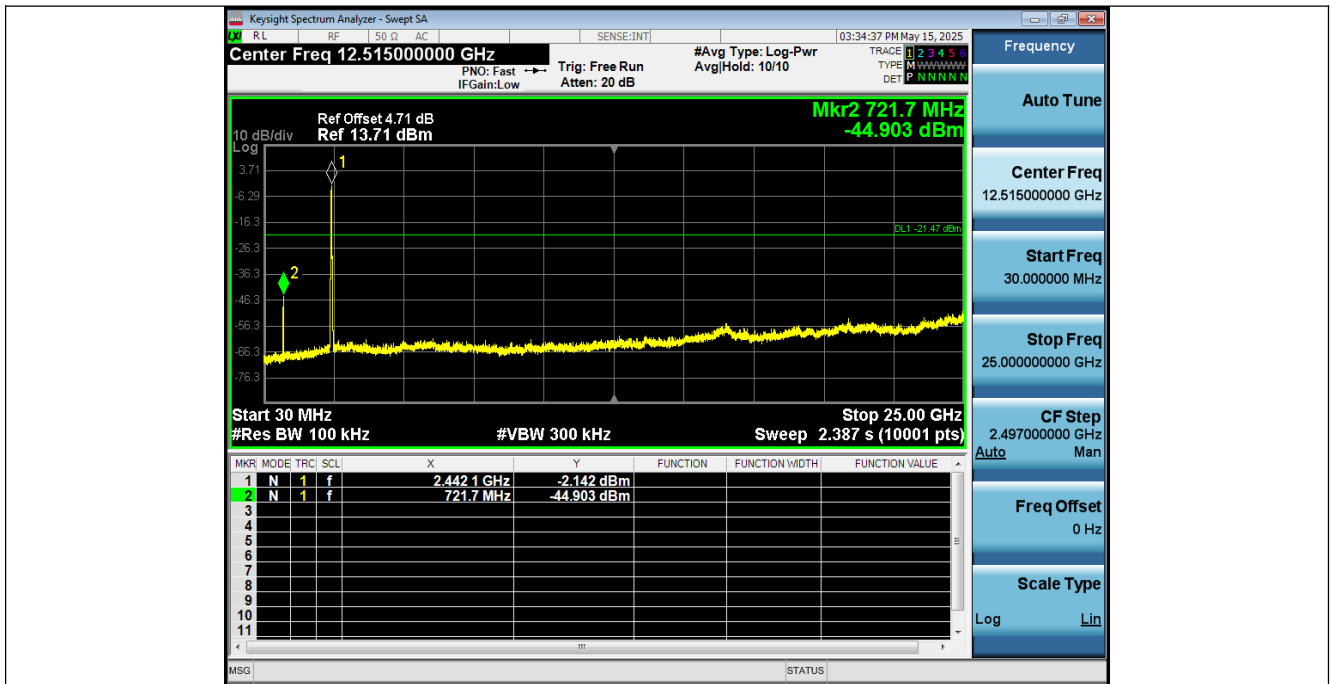
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2437



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452

