

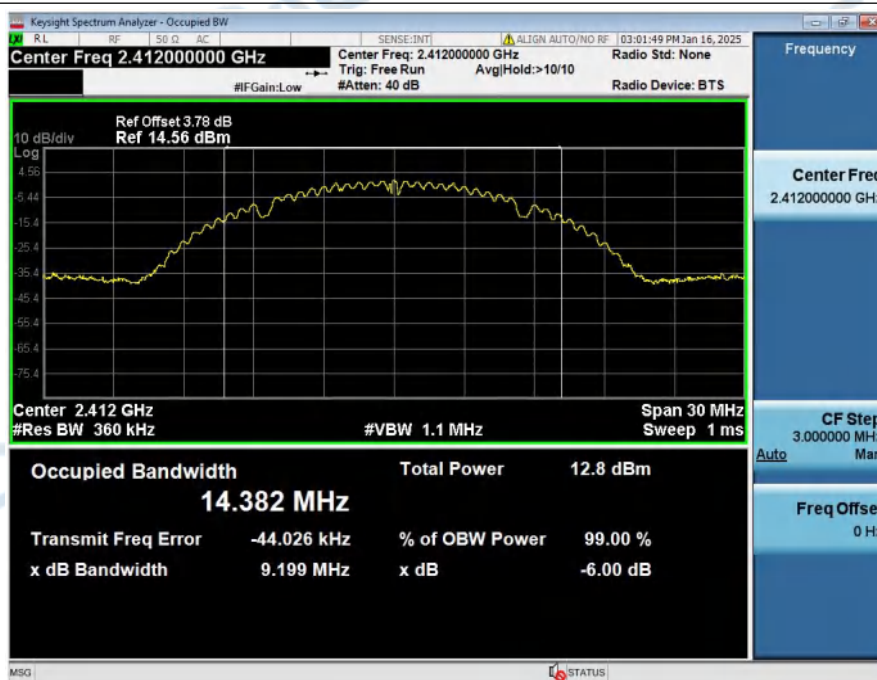
Appendix

HT241226008--ETLSP4000--2.4G--FCC 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	9.20	500	Pass
NVNT	ANT1	802.11b	2437.00	9.19	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	10.37	500	Pass
NVNT	ANT1	802.11g	2437.00	10.27	500	Pass
NVNT	ANT1	802.11g	2462.00	10.27	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	11.60	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	11.53	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	11.34	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	30.01	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	30.53	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	30.34	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



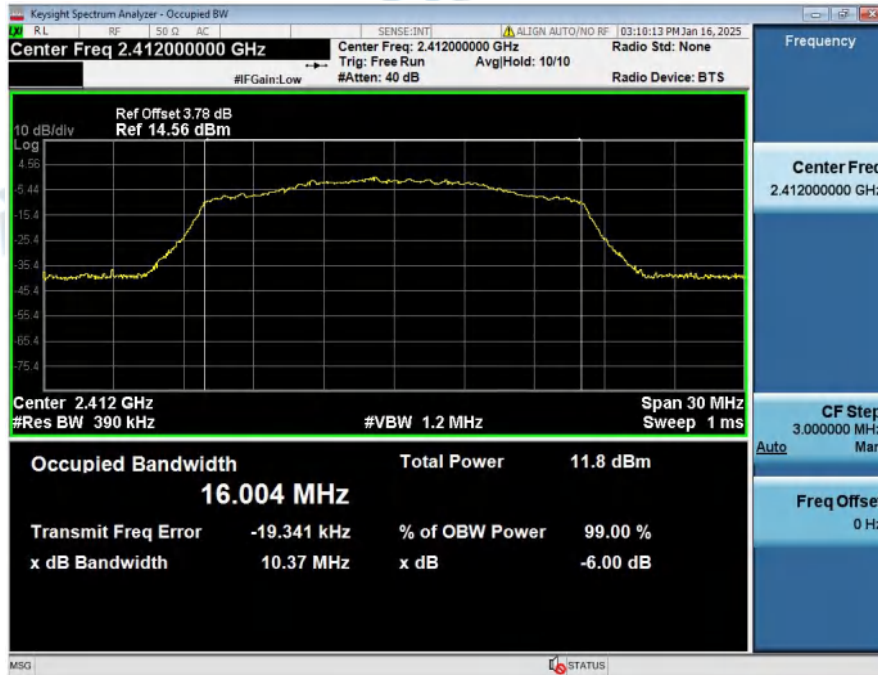
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



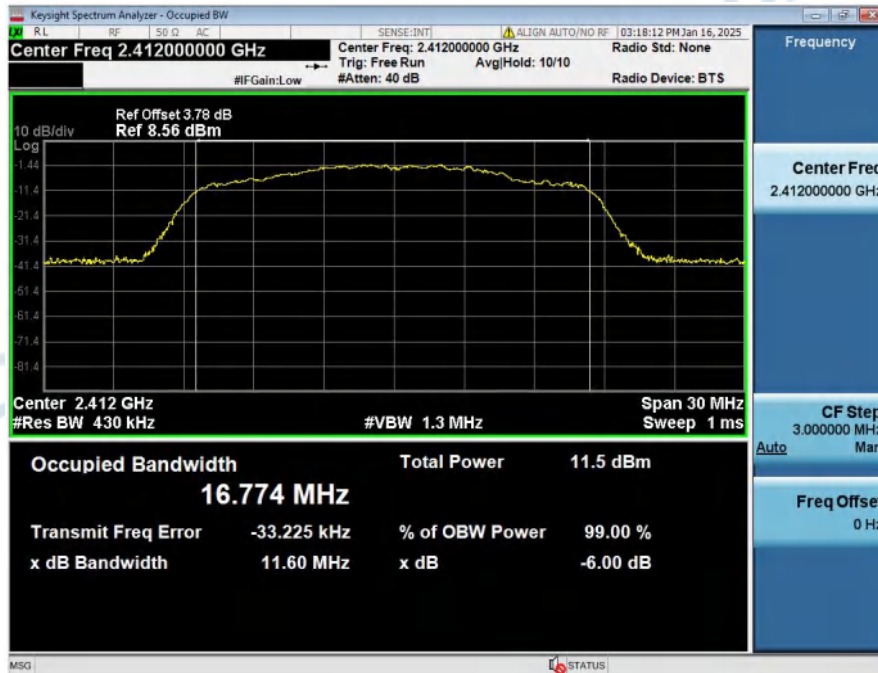
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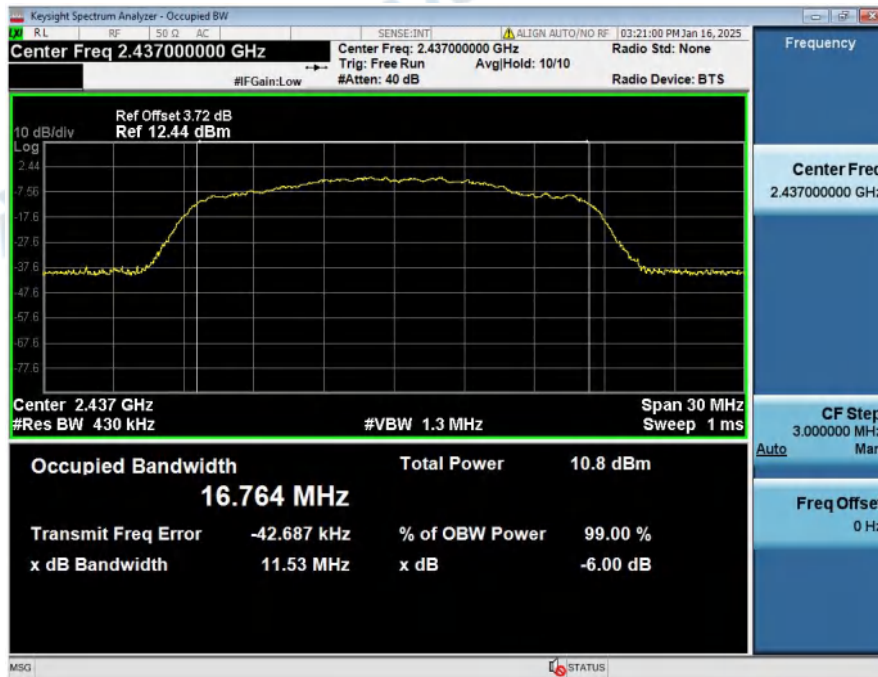
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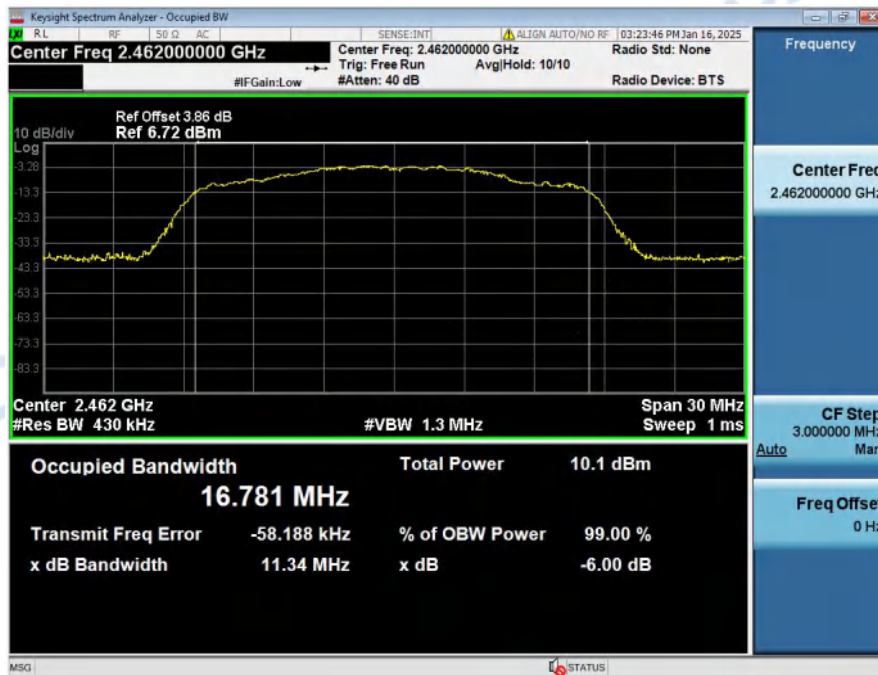
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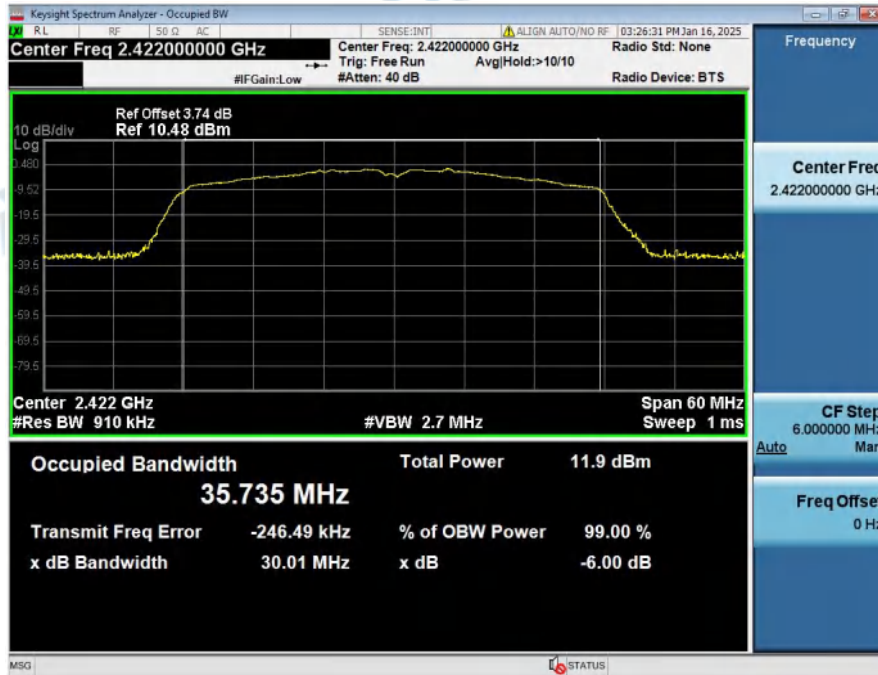
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



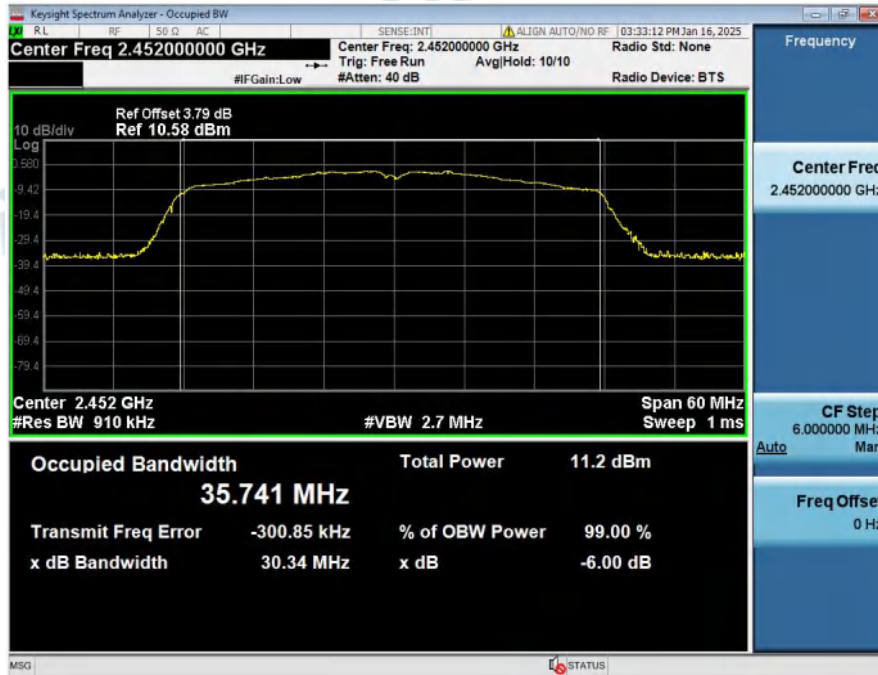
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.408
NVNT	ANT1	802.11b	2437.00	14.336
NVNT	ANT1	802.11b	2462.00	14.335
NVNT	ANT1	802.11g	2412.00	16.011
NVNT	ANT1	802.11g	2437.00	16.018
NVNT	ANT1	802.11g	2462.00	16.024
NVNT	ANT1	802.11n(HT20)	2412.00	16.799
NVNT	ANT1	802.11n(HT20)	2437.00	16.800
NVNT	ANT1	802.11n(HT20)	2462.00	16.797
NVNT	ANT1	802.11n(HT40)	2422.00	35.683
NVNT	ANT1	802.11n(HT40)	2437.00	35.700
NVNT	ANT1	802.11n(HT40)	2452.00	35.729

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



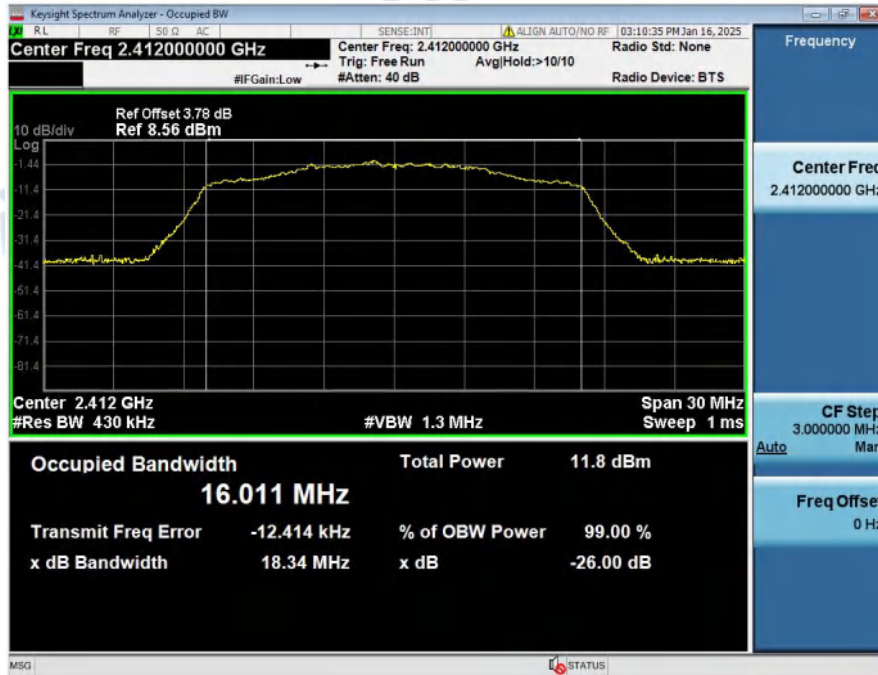
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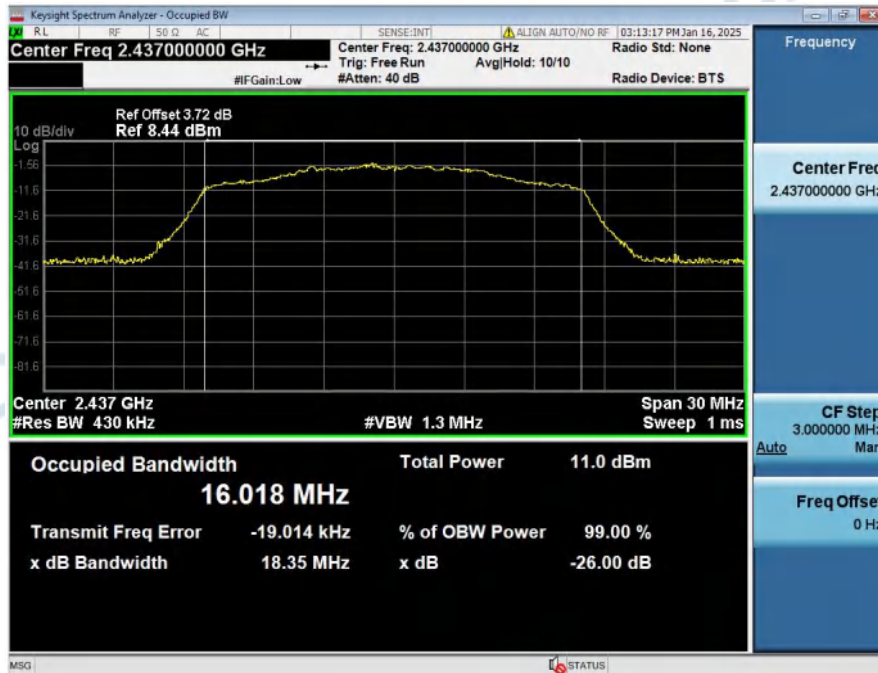
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



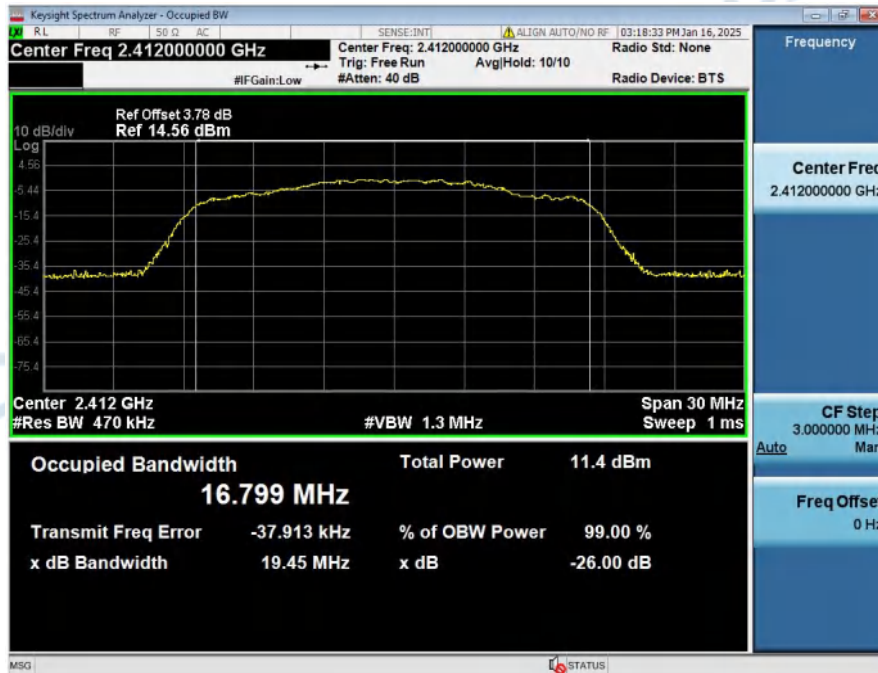
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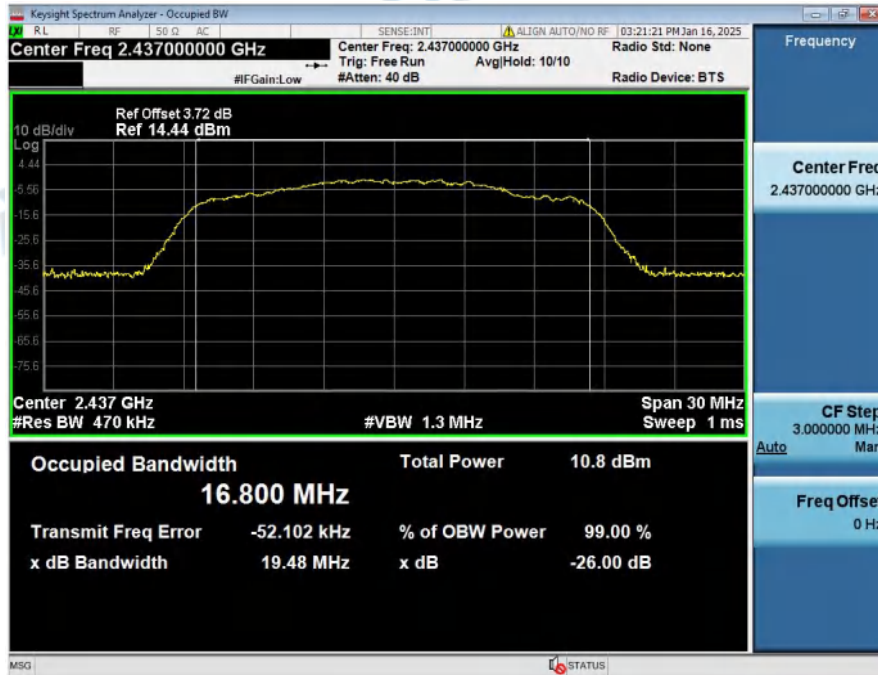
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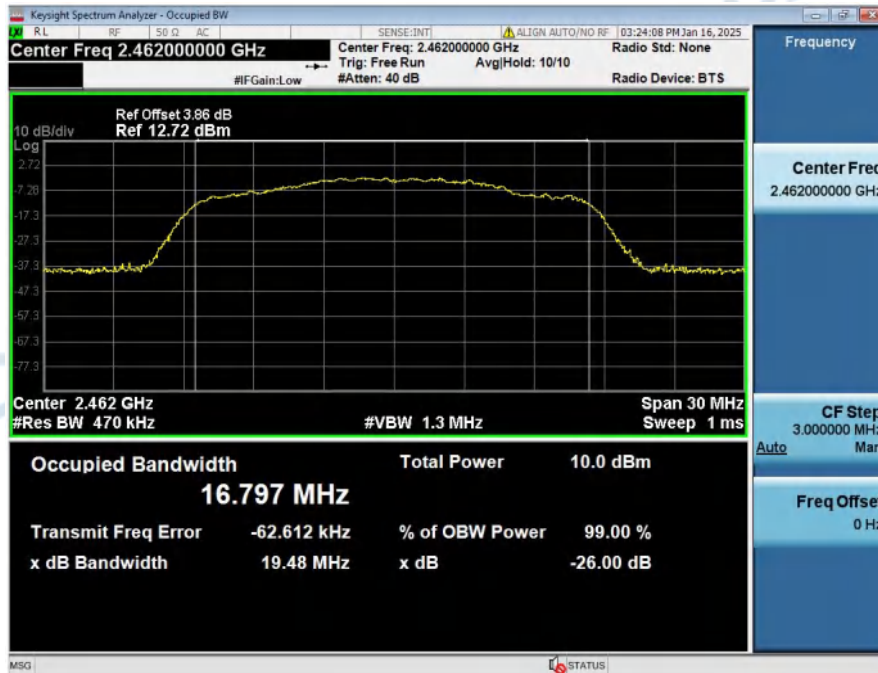
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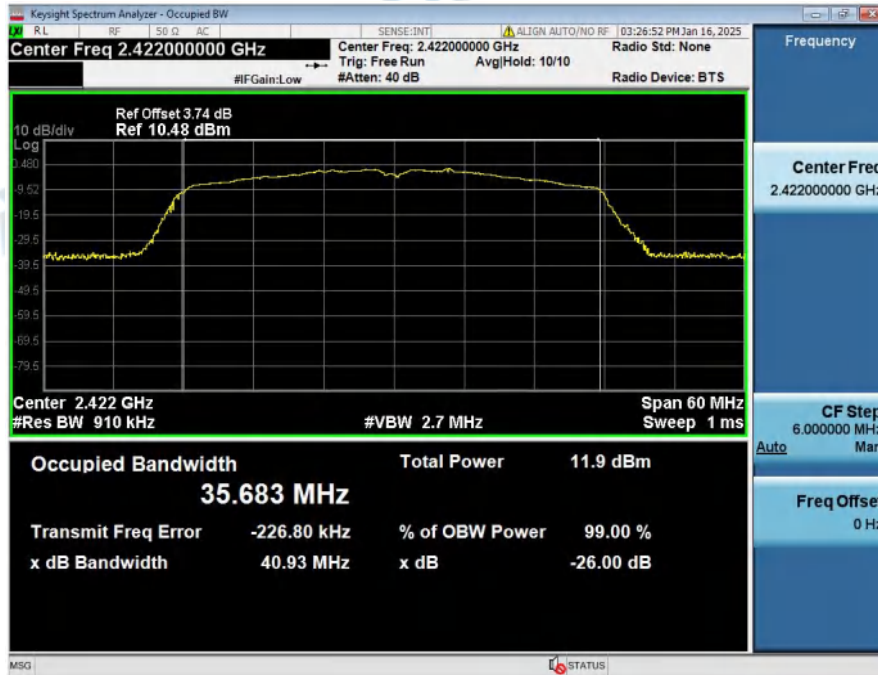
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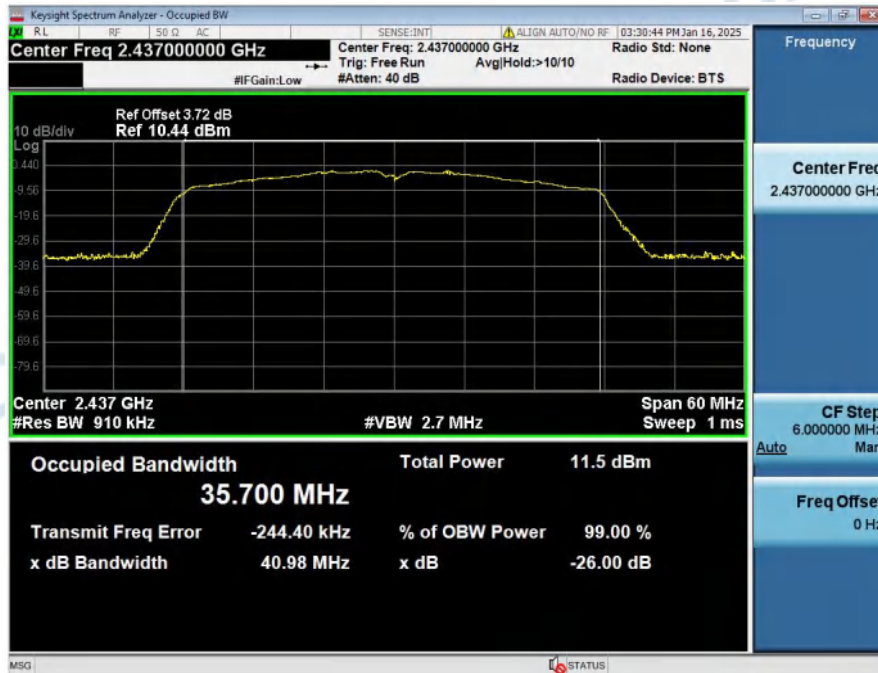
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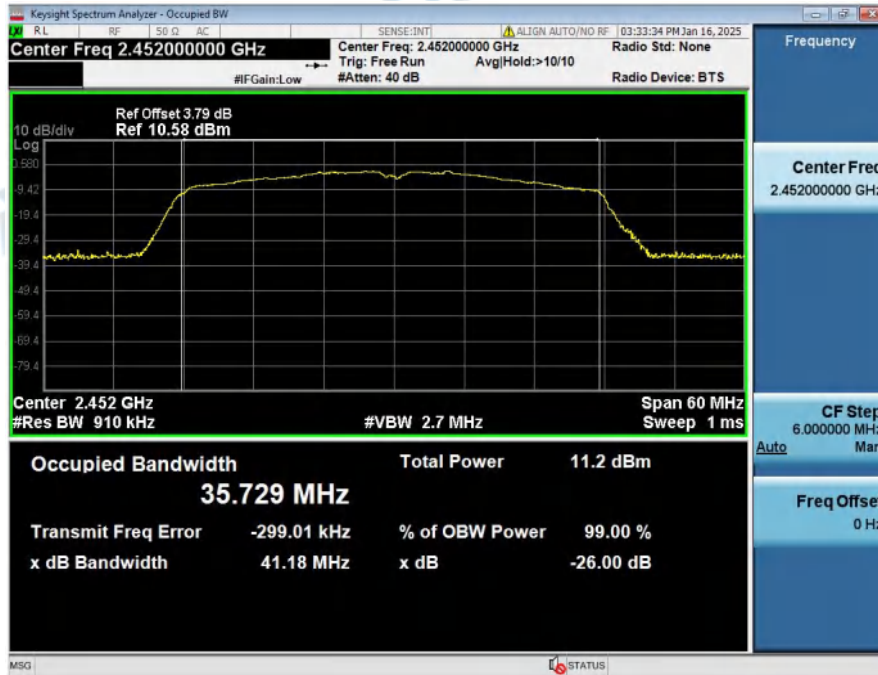
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



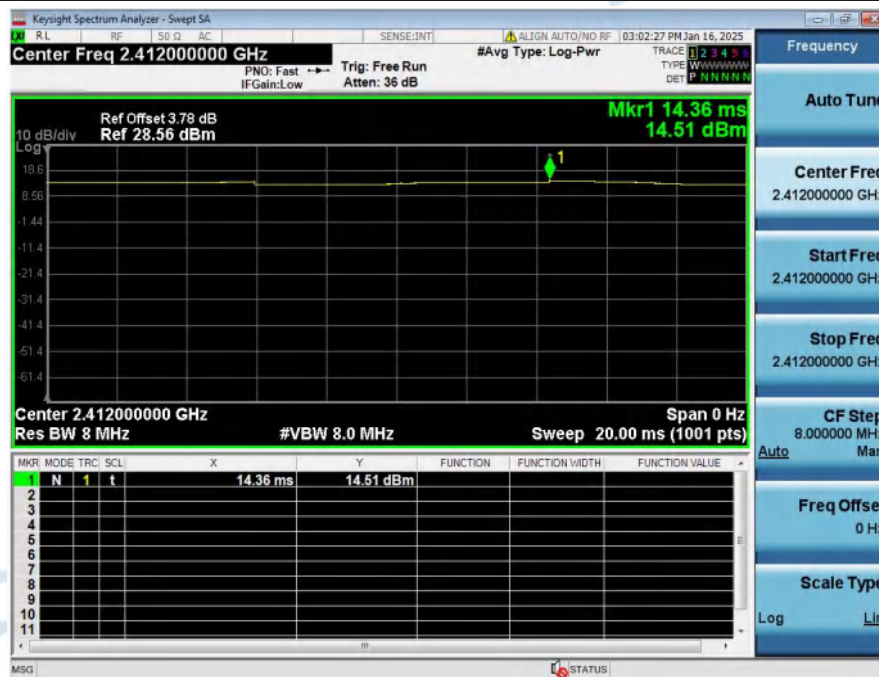
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



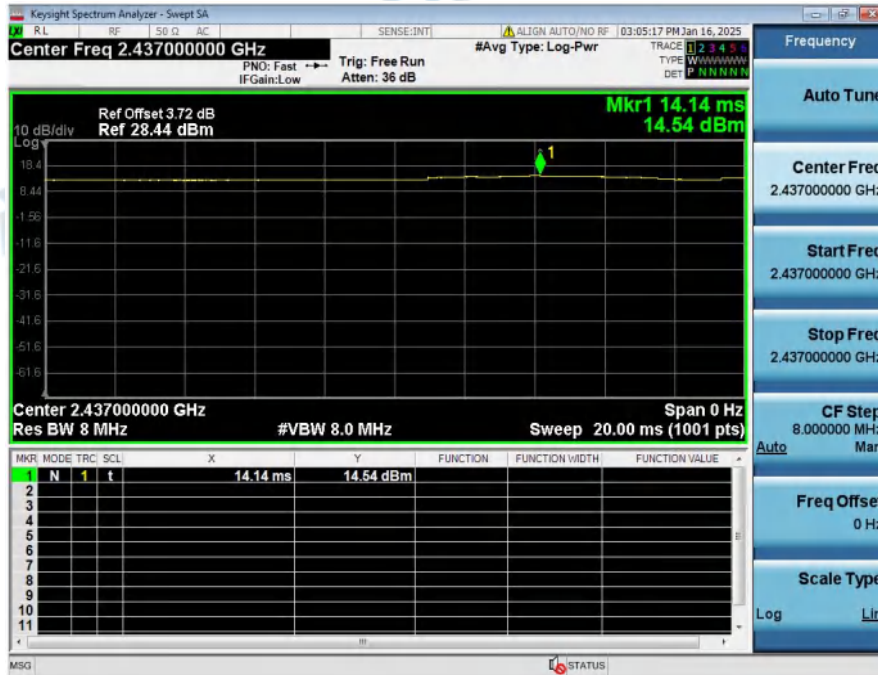
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	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
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00

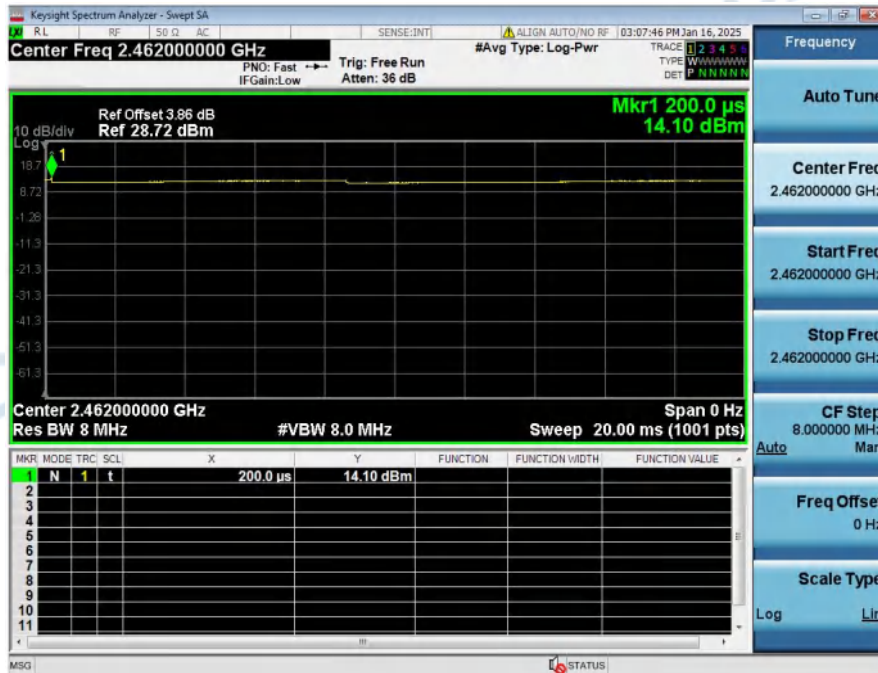
Duty_Cycle_NVNT_ANT1_802_11b_2412



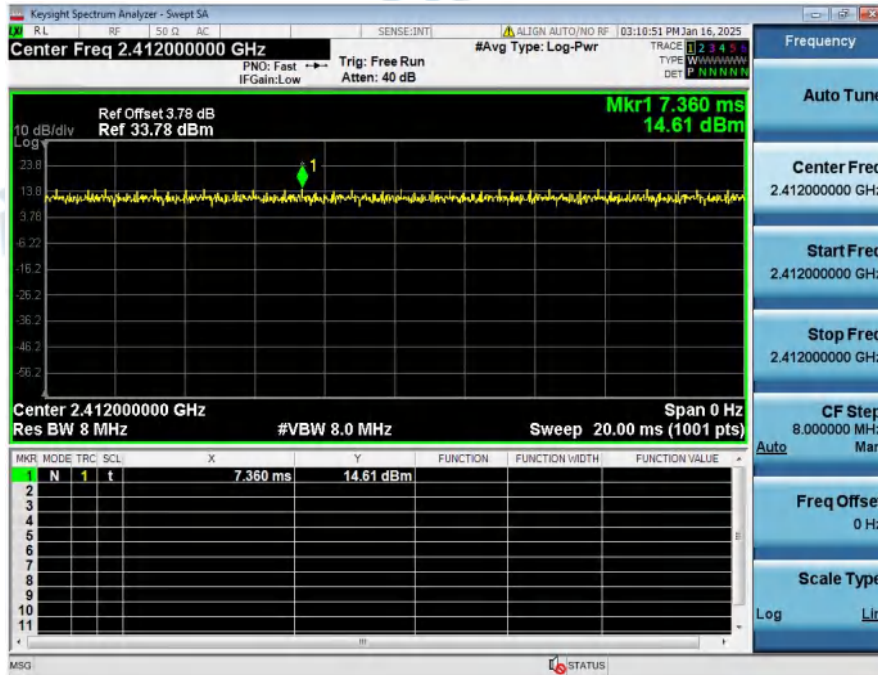
Duty_Cycle_NVNT_ANT1_802_11b_2437



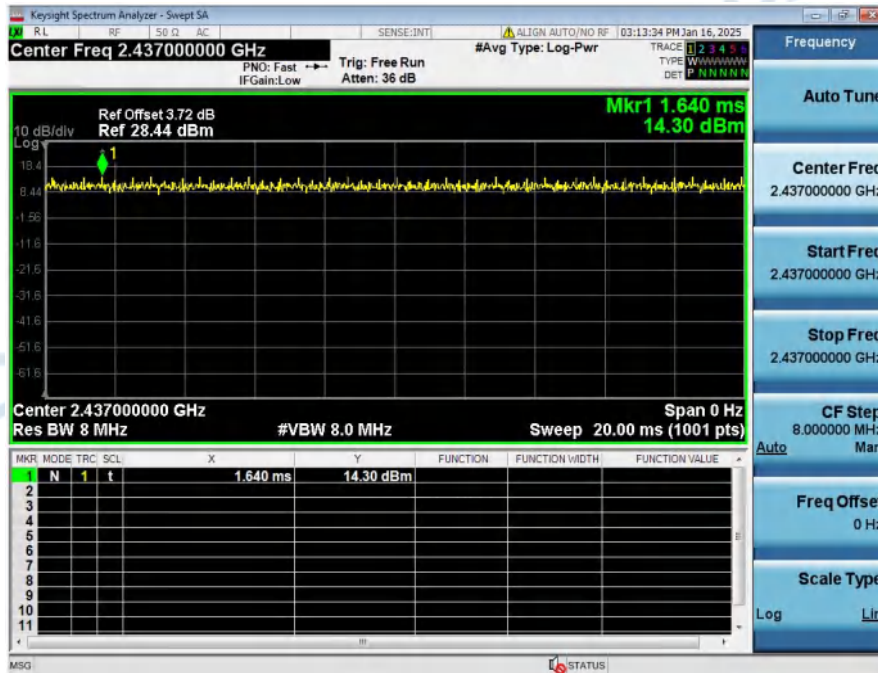
Duty_Cycle_NVNT_ANT1_802_11b_2462



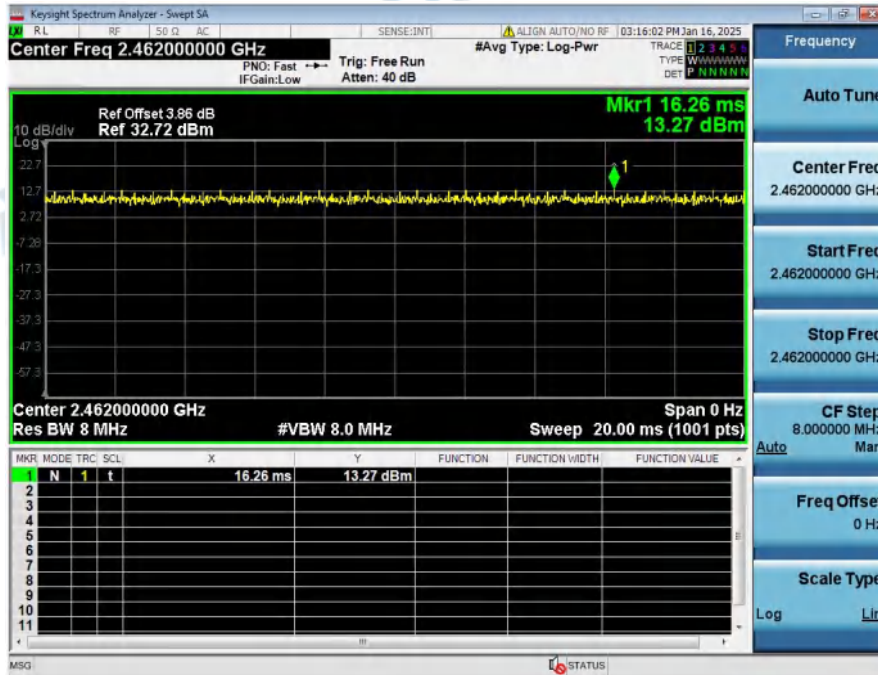
Duty_Cycle_NVNT_ANT1_802_11g_2412



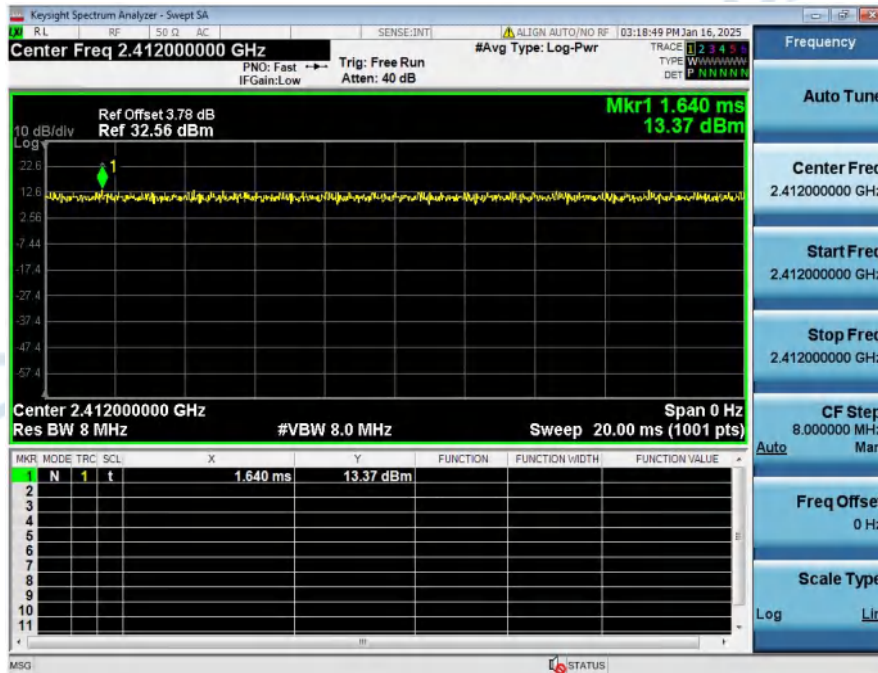
Duty_Cycle_NVNT_ANT1_802_11g_2437



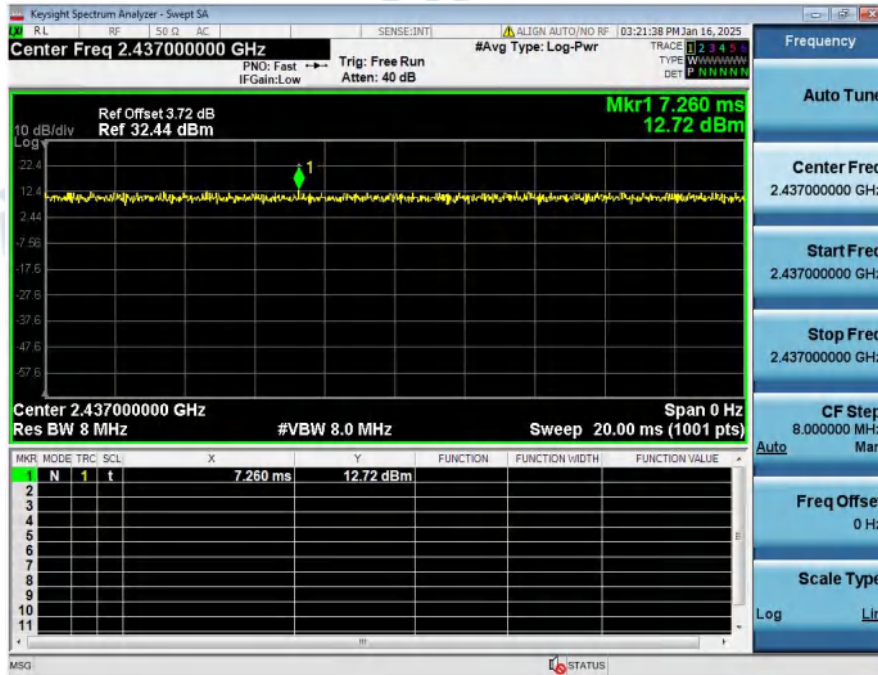
Duty_Cycle_NVNT_ANT1_802_11g_2462



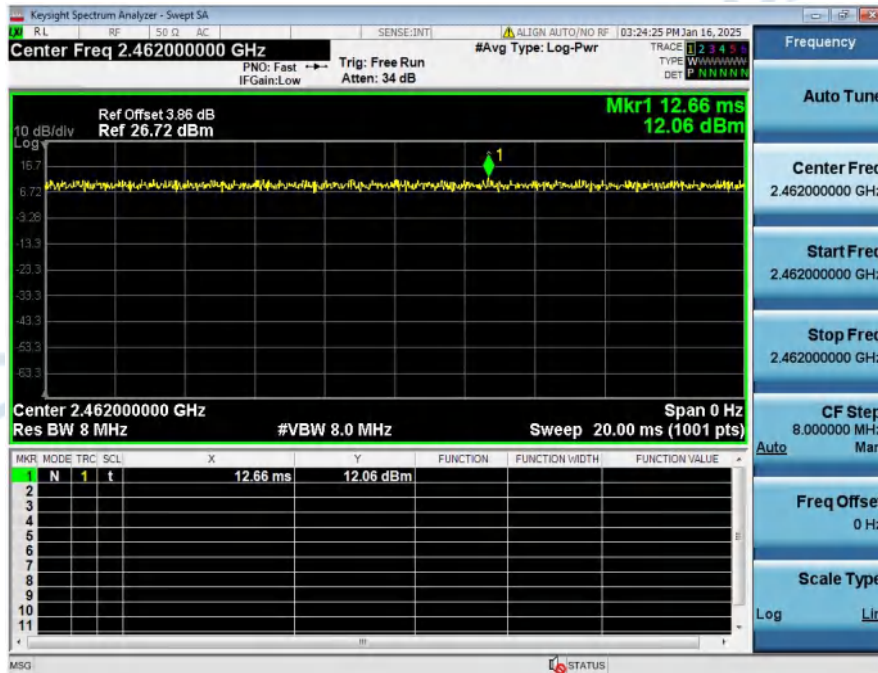
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



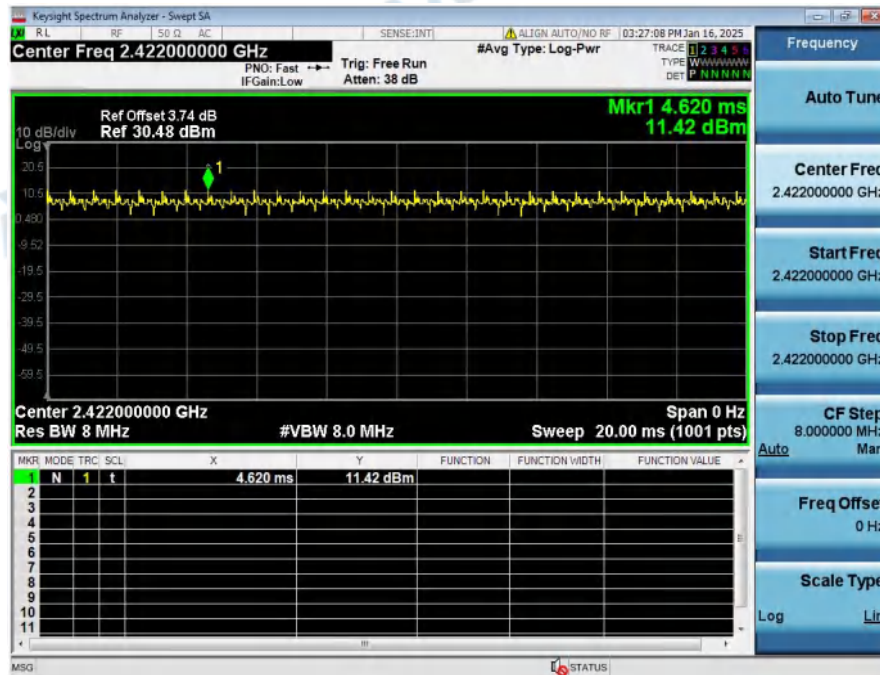
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



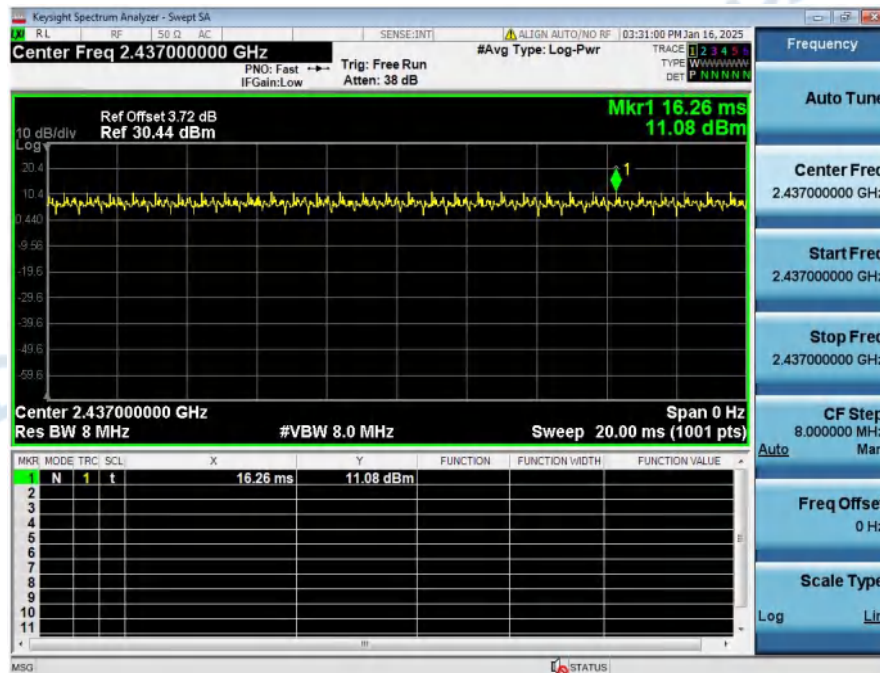
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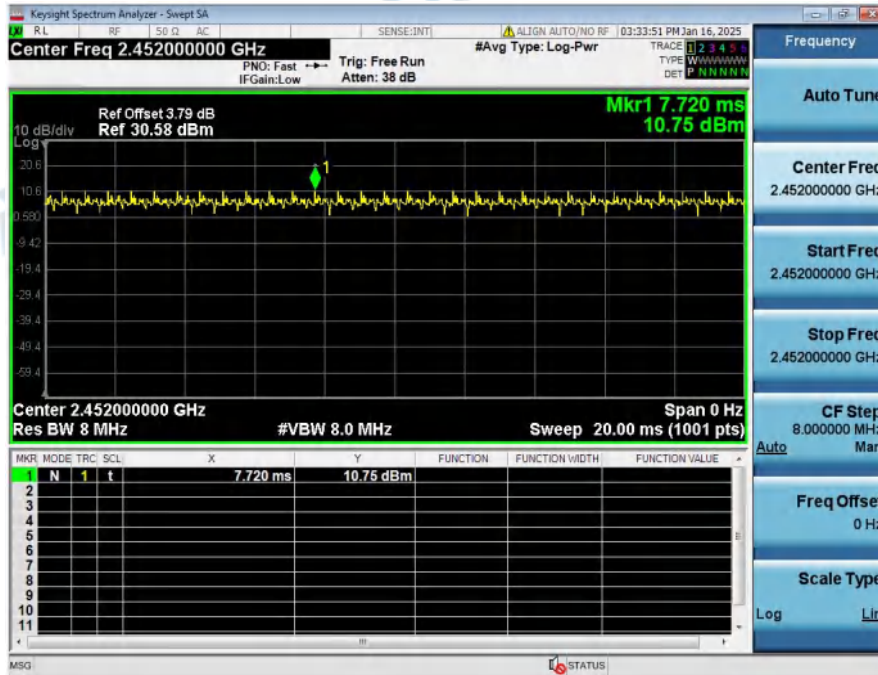
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



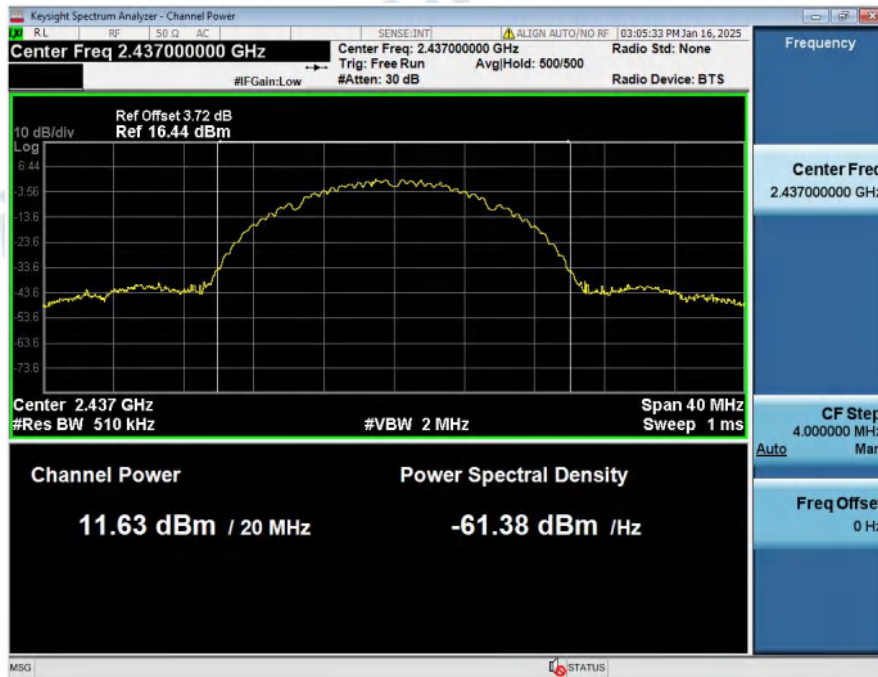
4. MAX. Output Power

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	11.89	N/A	11.89	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	11.63	N/A	11.63	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	11.12	N/A	11.12	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	11.65	N/A	11.65	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	10.82	N/A	10.82	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	10.20	N/A	10.20	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	11.19	N/A	11.19	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	10.61	N/A	10.61	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	9.80	N/A	9.80	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	10.95	N/A	10.95	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	10.49	N/A	10.49	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	10.21	N/A	10.21	30	Pass

MAX__Output_Power_NVNT_ANT1_802_11b_2412



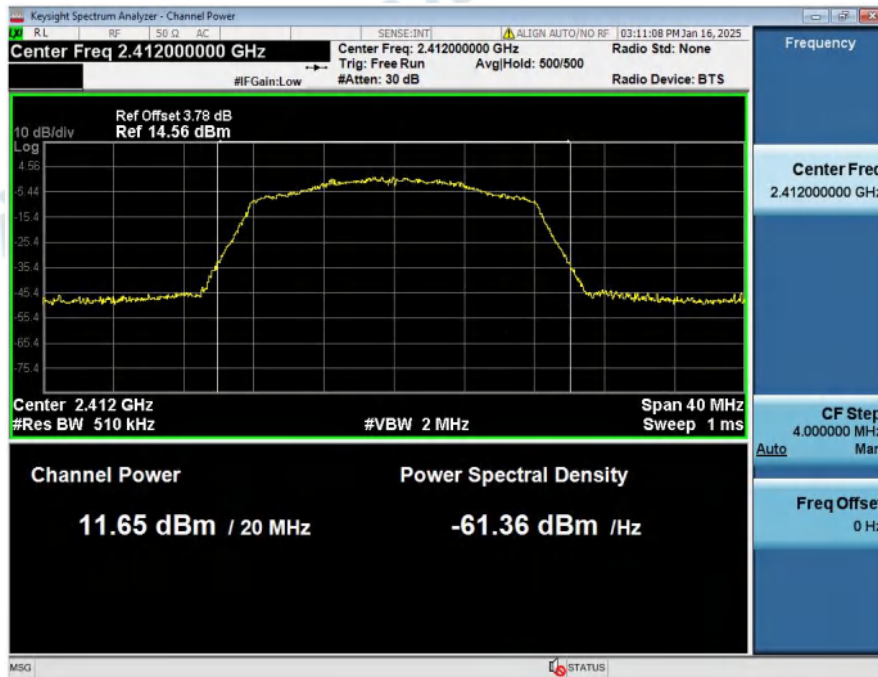
MAX__Output_Power_NVNT_ANT1_802_11b_2437



MAX__Output_Power_NVNT_ANT1_802_11b_2462



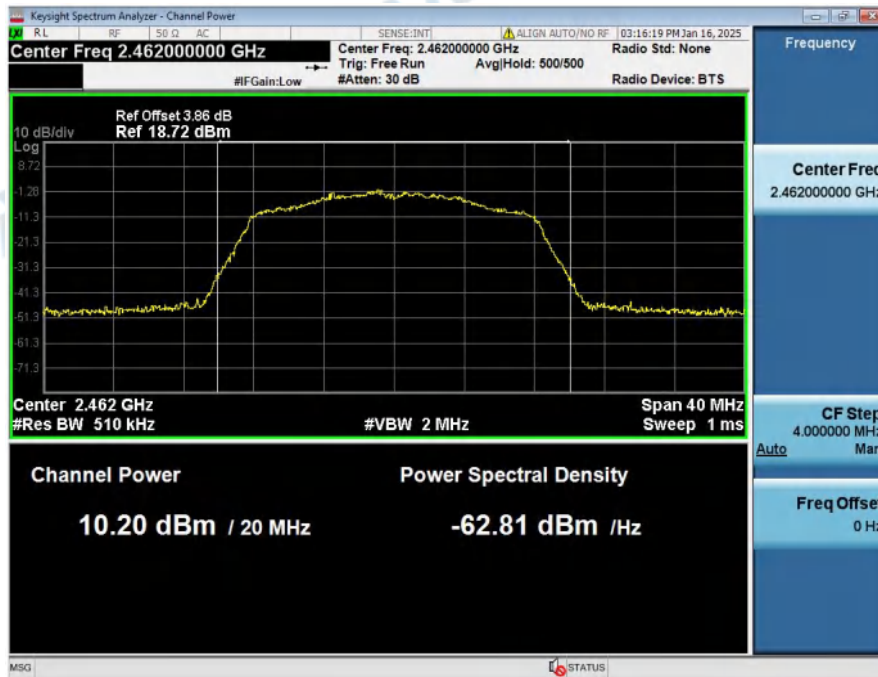
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MAX__Output_Power_NVNT_ANT1_802_11g_2437



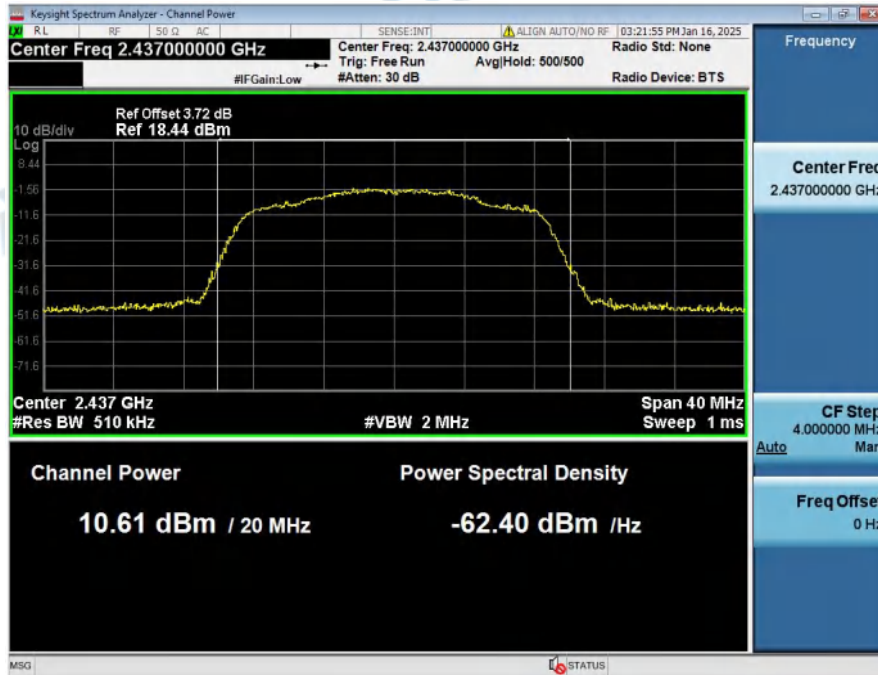
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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



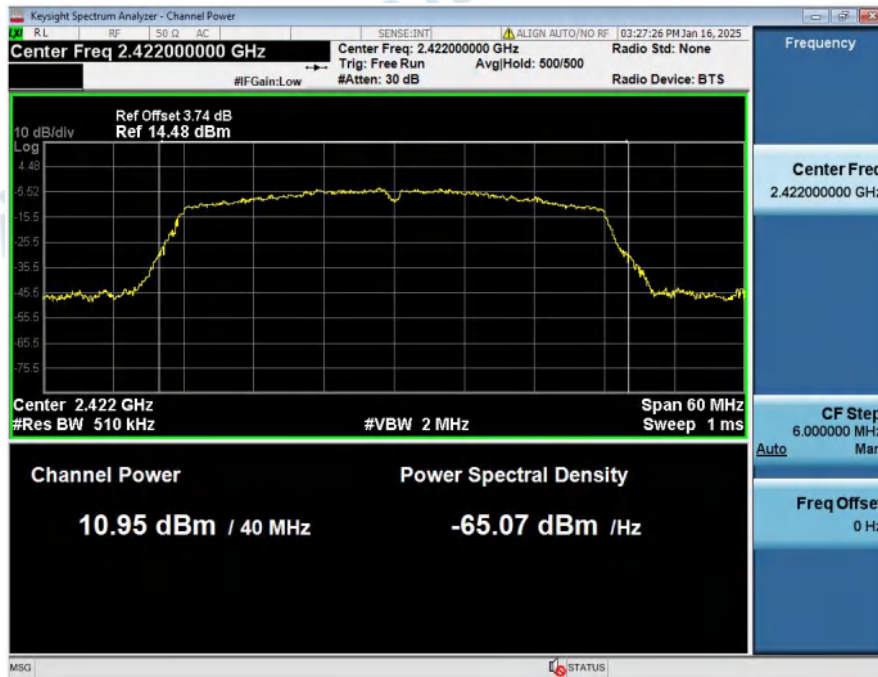
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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



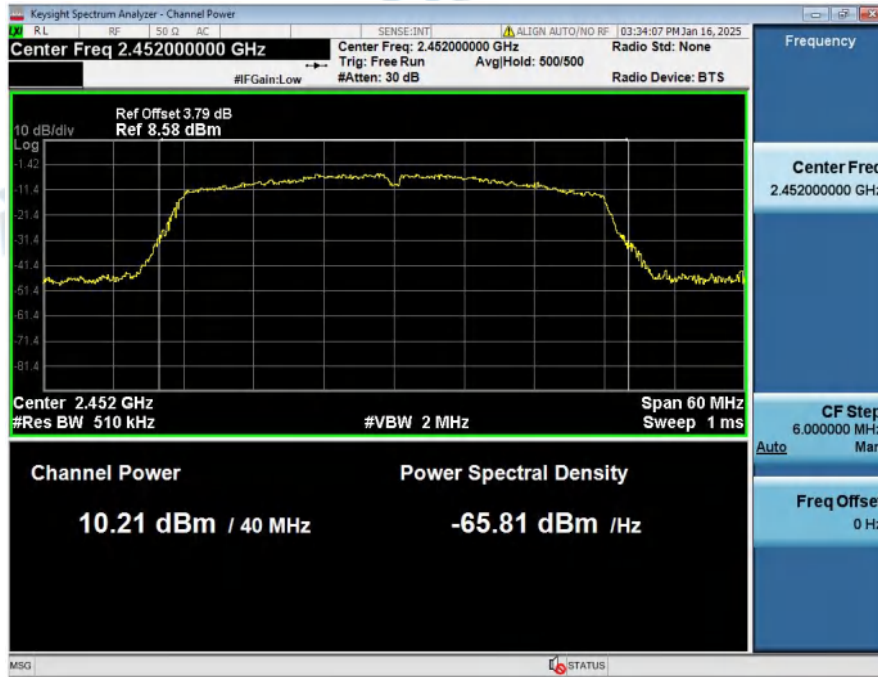
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MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-3.63	8	Pass
NVNT	ANT1	802.11b	2437.00	-4.14	8	Pass
NVNT	ANT1	802.11b	2462.00	-4.32	8	Pass
NVNT	ANT1	802.11g	2412.00	-9.23	8	Pass
NVNT	ANT1	802.11g	2437.00	-10.03	8	Pass
NVNT	ANT1	802.11g	2462.00	-10.80	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-9.79	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-10.44	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-11.54	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-12.64	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-13.21	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-13.38	8	Pass

Power_Spectral_Density_NVNT_ANT1_802_11b_2412



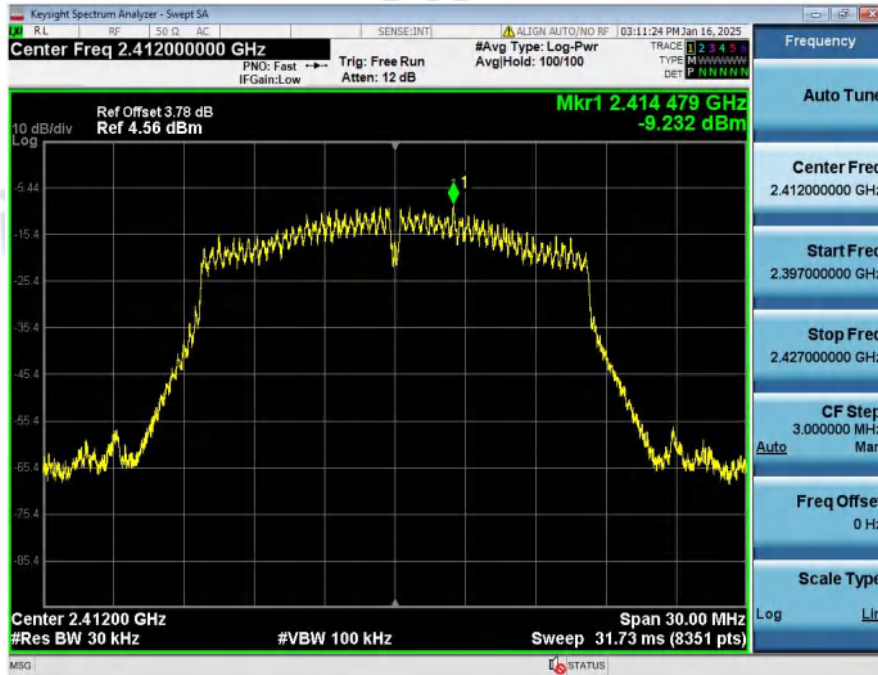
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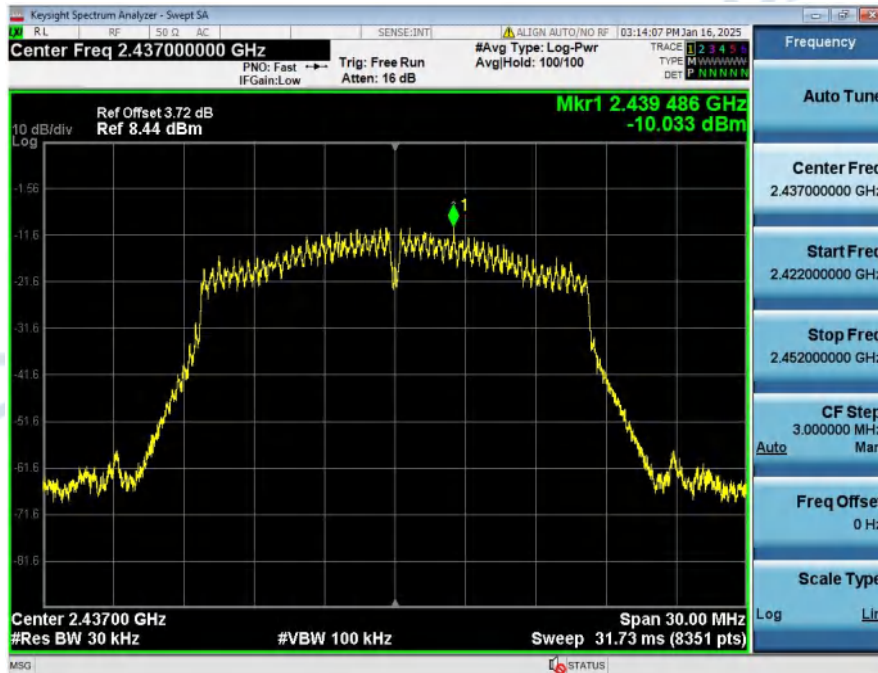
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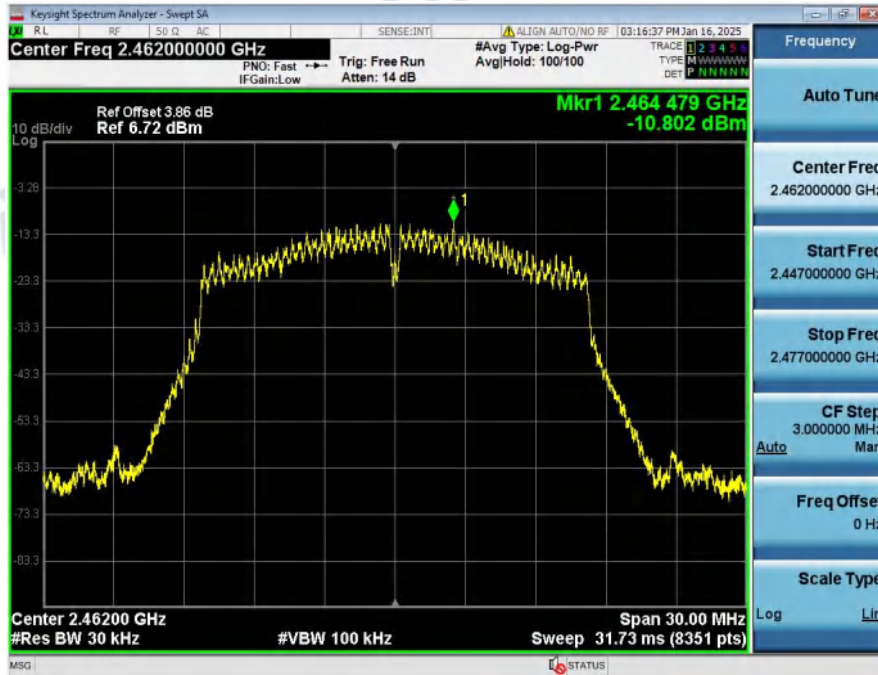
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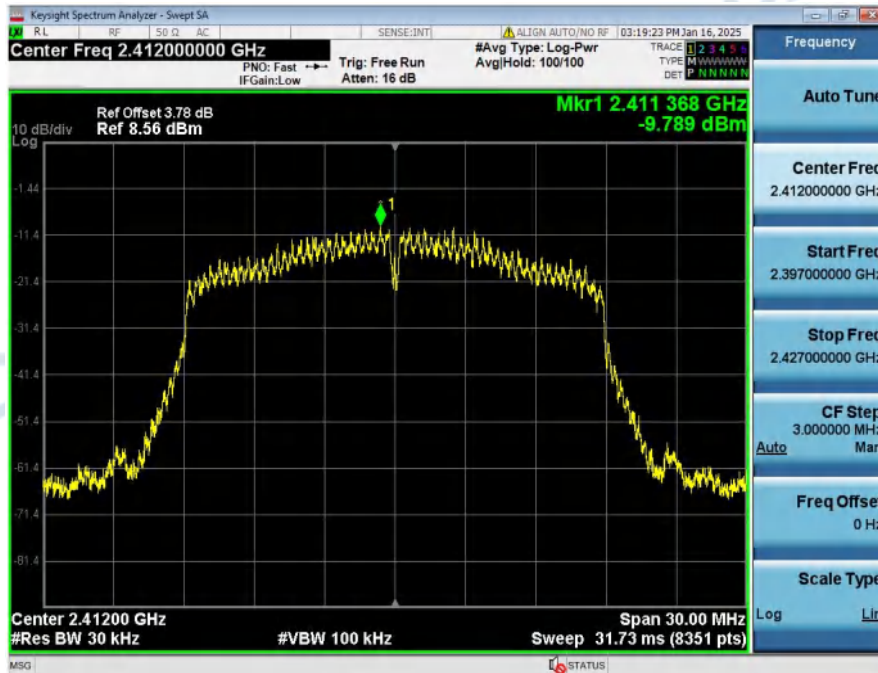
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



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



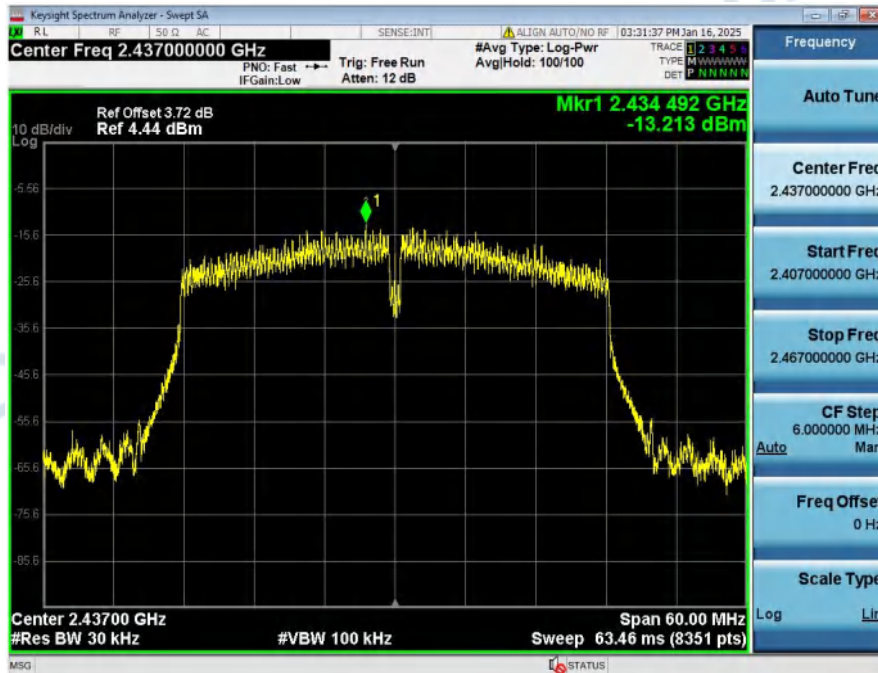
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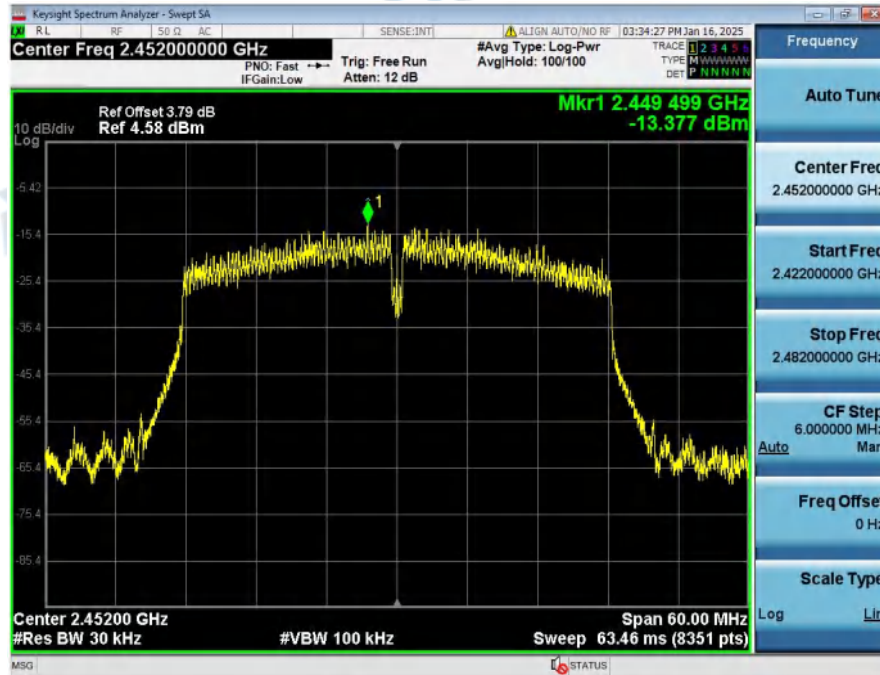
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



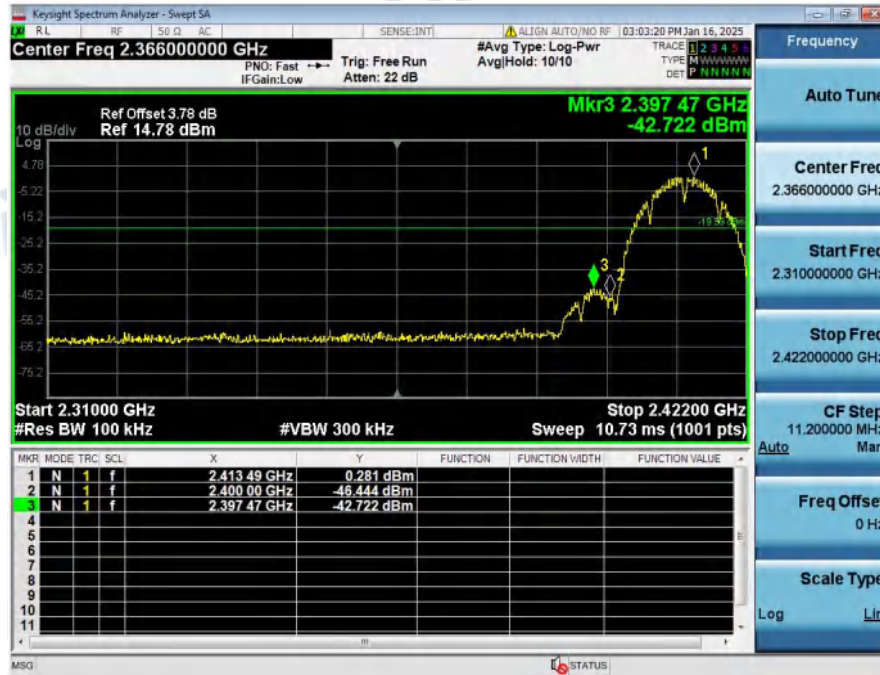
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.472	0.414	-42.722	-19.586	Pass
NVNT	ANT1	802.11b	2462.00	2487.136	0.355	-56.505	-19.645	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-4.557	-55.430	-24.557	Pass
NVNT	ANT1	802.11g	2462.00	2484.064	-5.539	-60.709	-25.539	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-5.174	-54.302	-25.174	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2492.704	-5.727	-60.865	-25.727	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.100	-8.611	-53.109	-28.611	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2486.128	-9.459	-55.622	-29.459	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



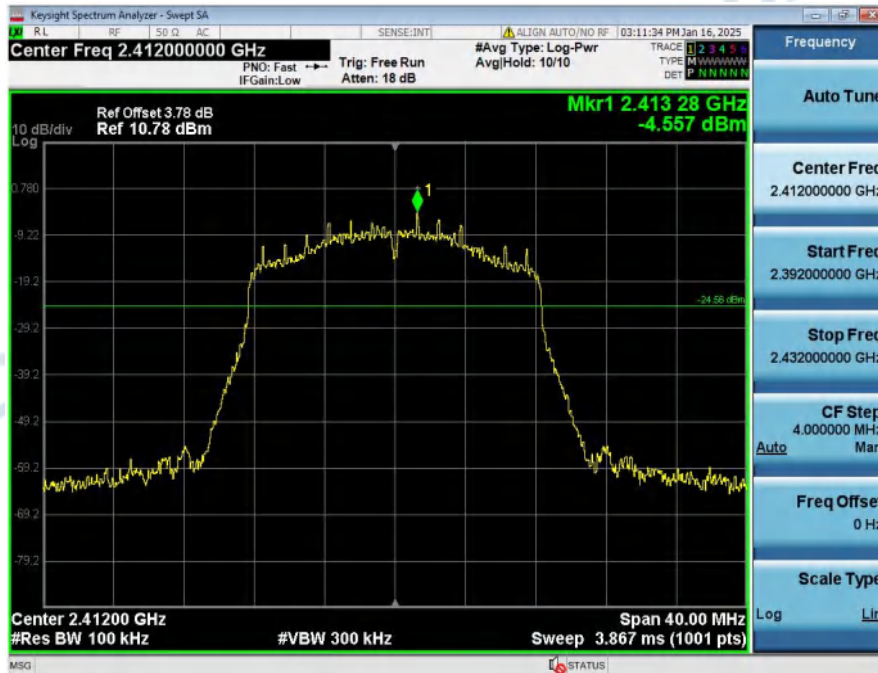
1_Reference_Level_NVNT_ANT1_802_11b_2462



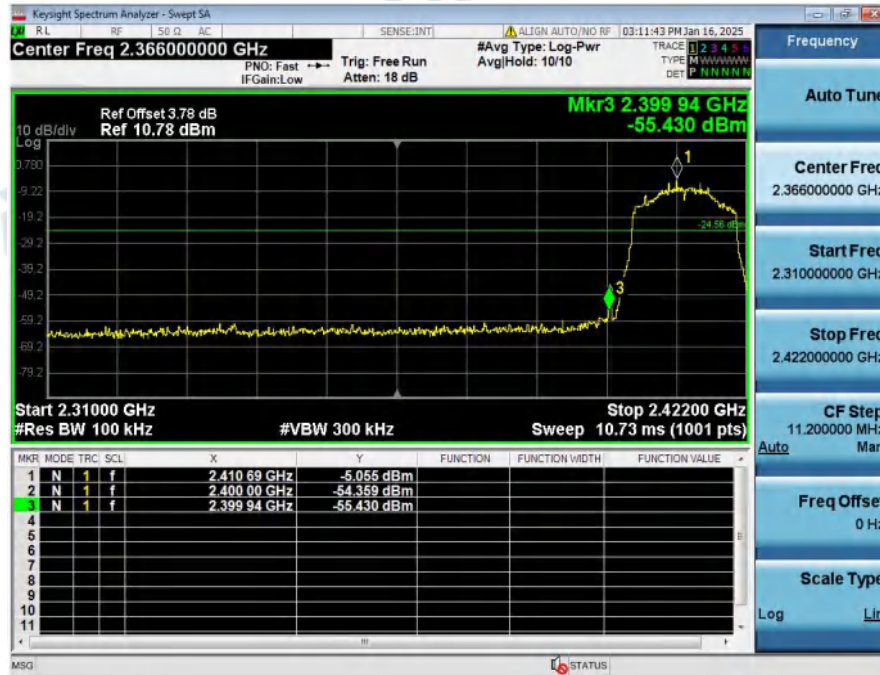
2_Bandedge_NVNT_ANT1_802_11b_2462



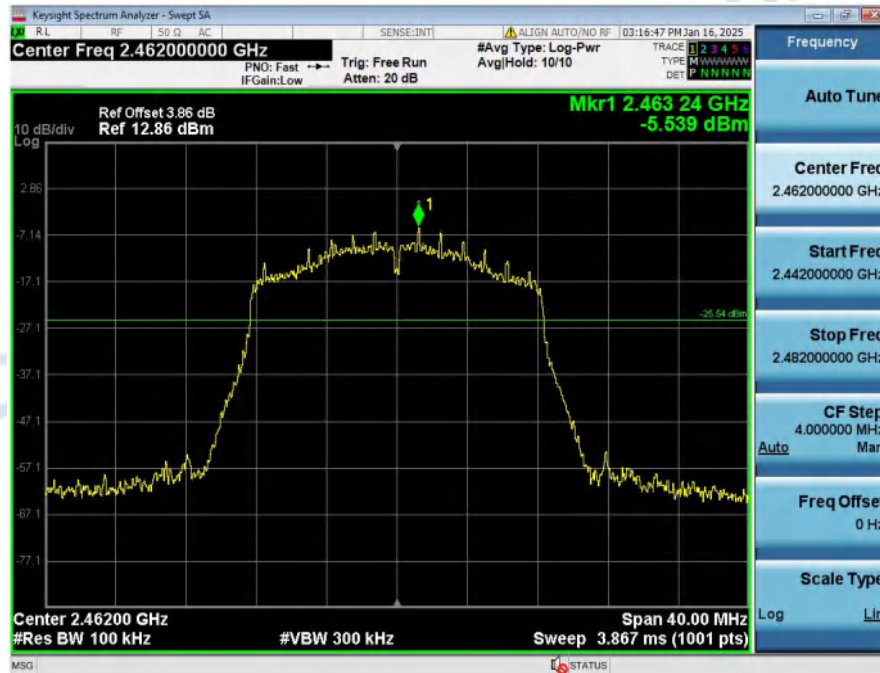
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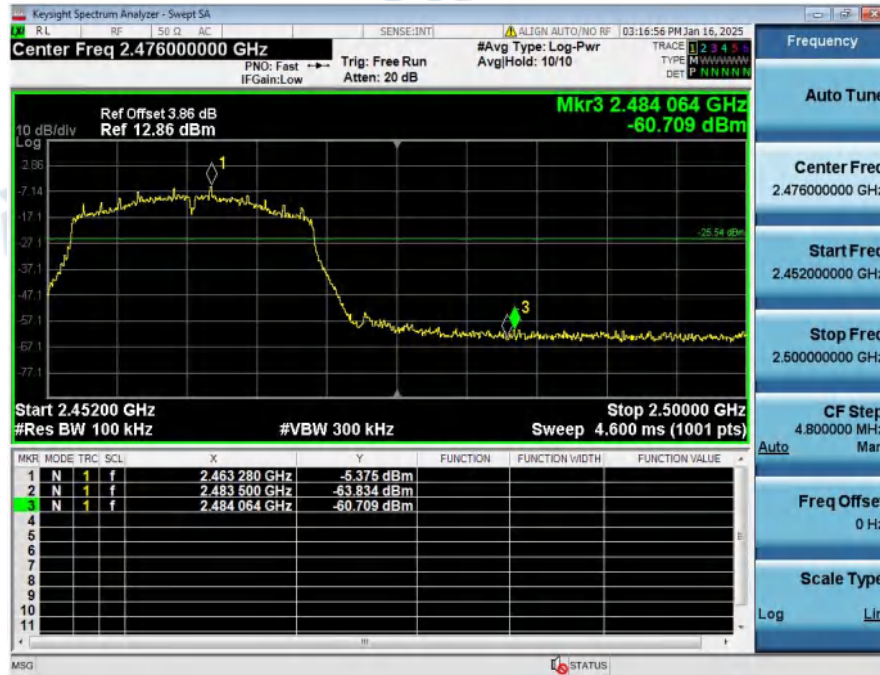
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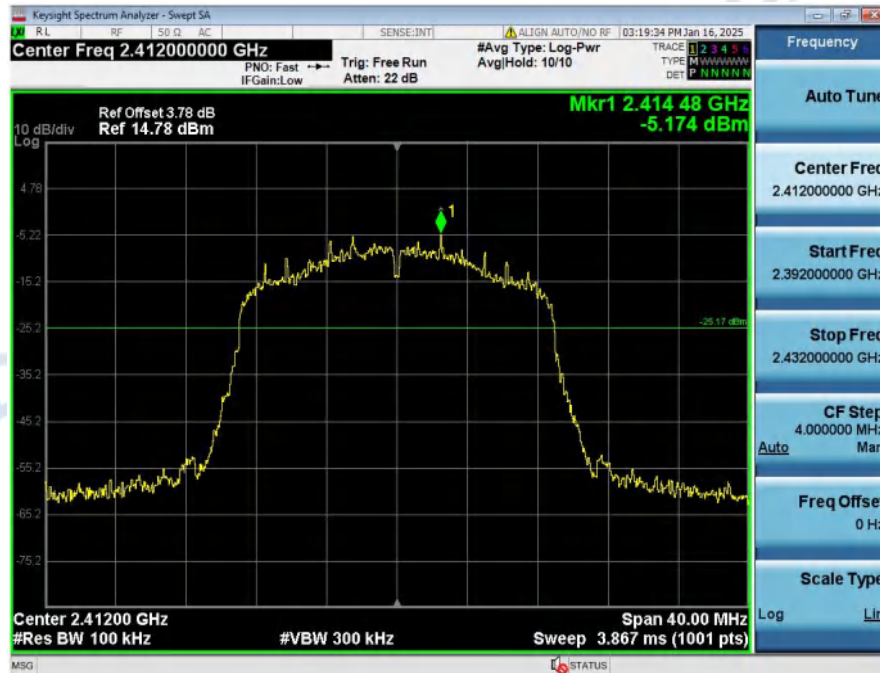
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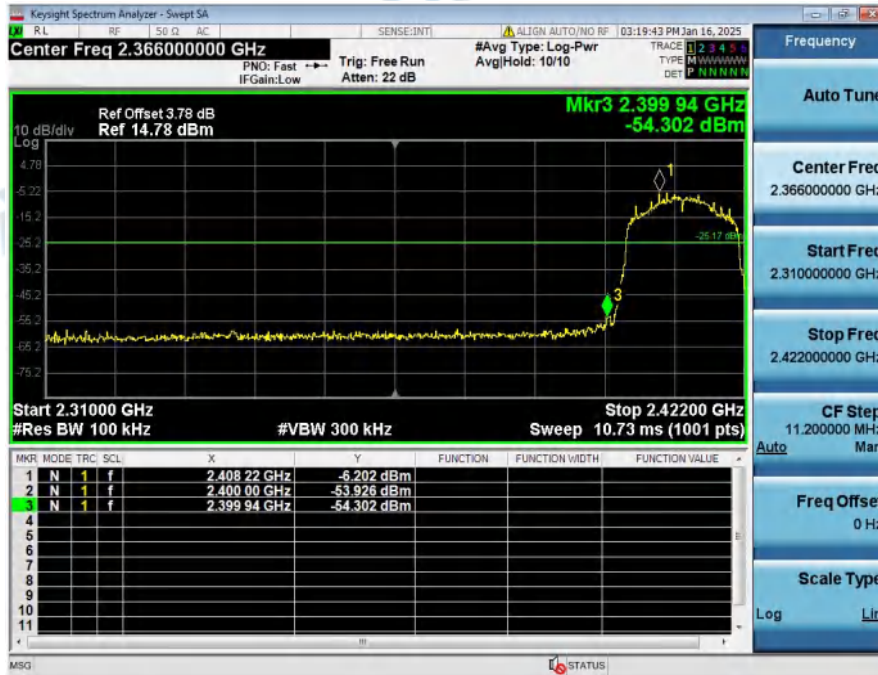
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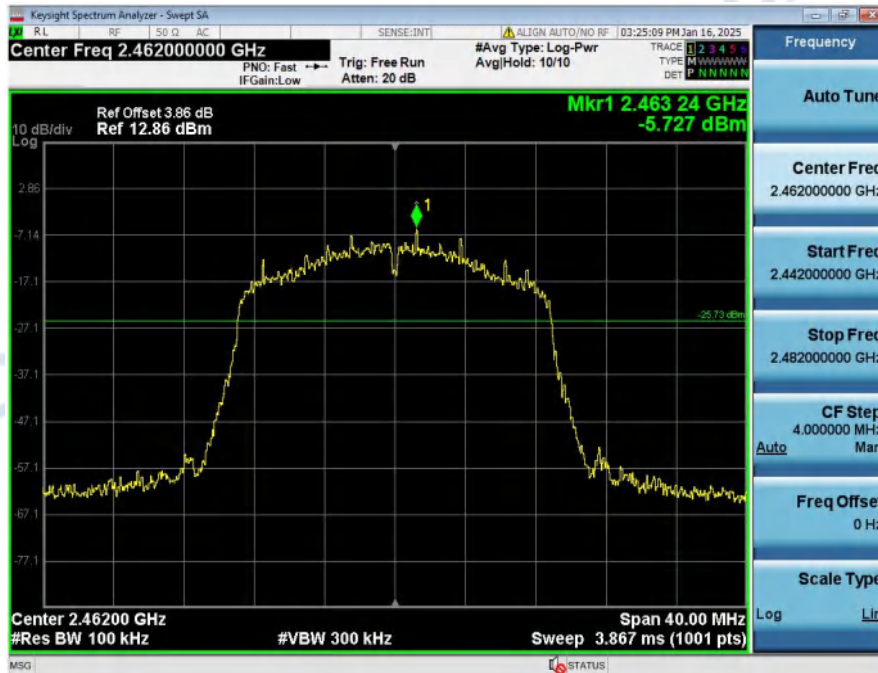
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



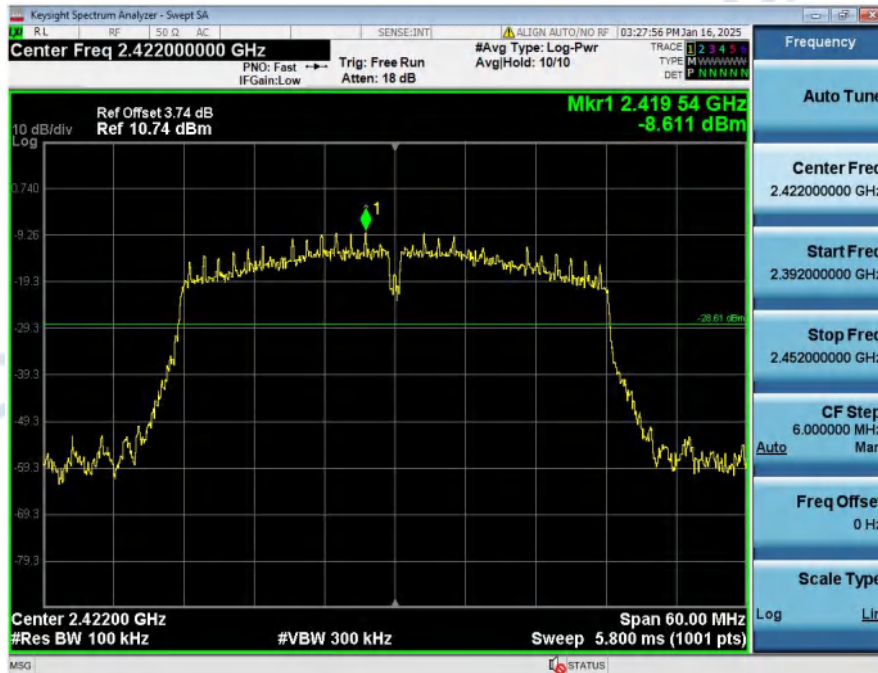
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



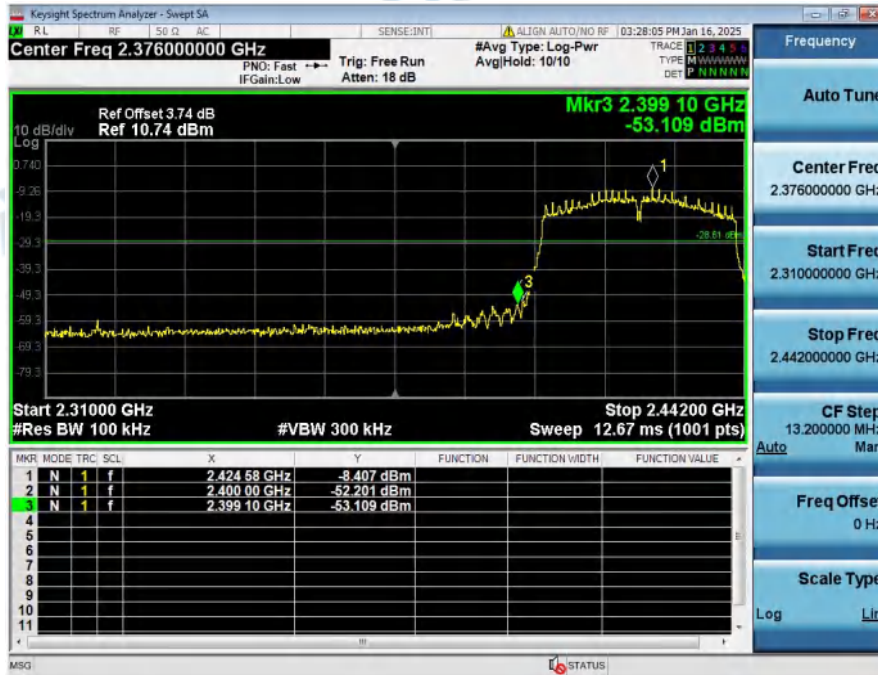
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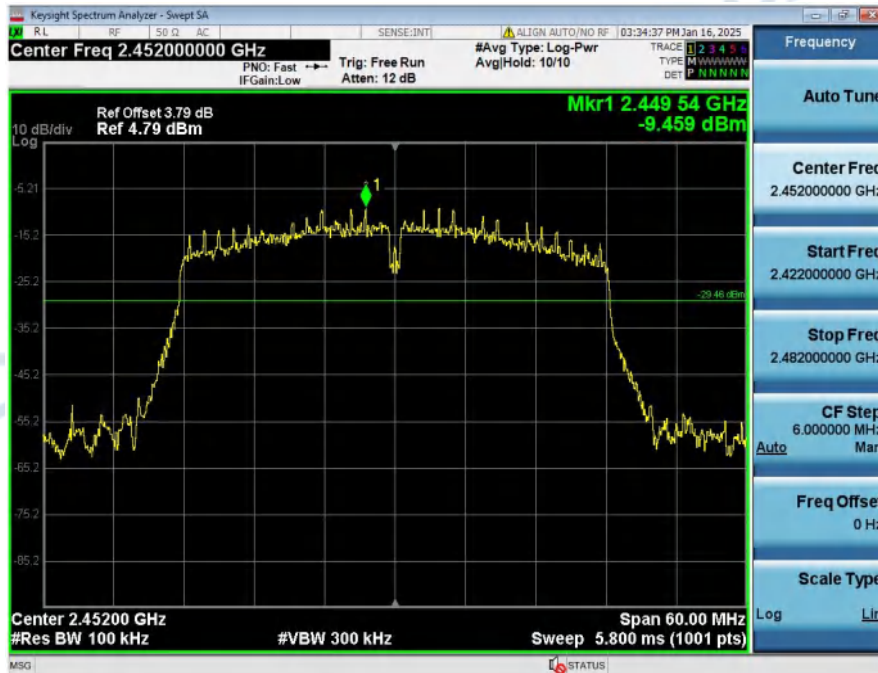
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



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



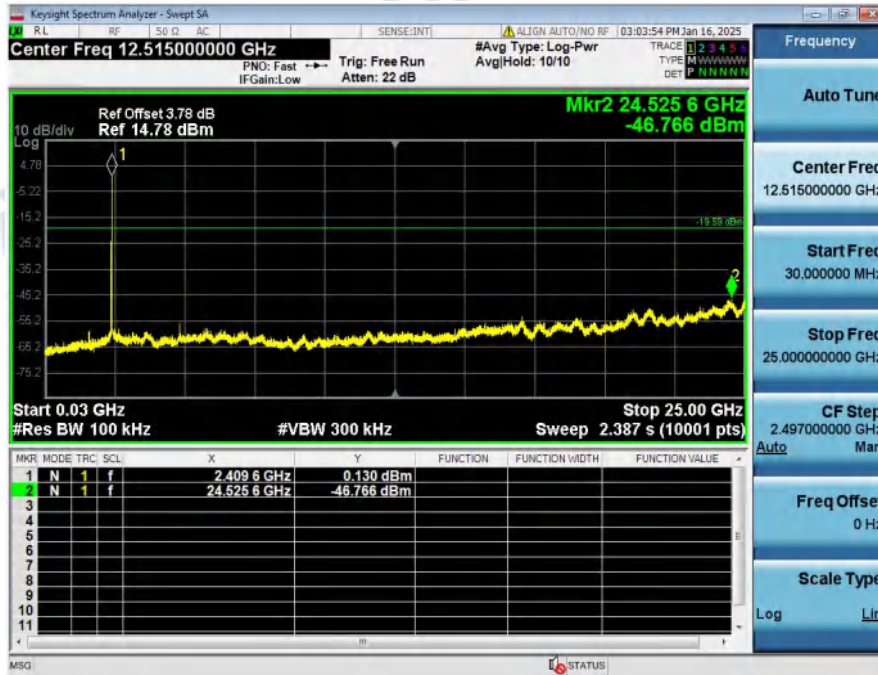
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24525.570	0.414	-46.766	-19.586	Pass
NVNT	ANT1	802.11b	2437.00	24450.660	0.339	-42.775	-19.661	Pass
NVNT	ANT1	802.11b	2462.00	24987.515	0.355	-42.360	-19.645	Pass
NVNT	ANT1	802.11g	2412.00	24992.509	-4.557	-50.816	-24.557	Pass
NVNT	ANT1	802.11g	2437.00	24490.612	-5.780	-47.441	-25.780	Pass
NVNT	ANT1	802.11g	2462.00	24443.169	-5.539	-48.736	-25.539	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24950.060	-5.174	-46.722	-25.174	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24378.247	-4.547	-52.949	-24.547	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	25000.000	-5.727	-48.536	-25.727	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24453.157	-8.611	-51.313	-28.611	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24535.558	-9.222	-50.839	-29.222	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24960.048	-9.459	-57.149	-29.459	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



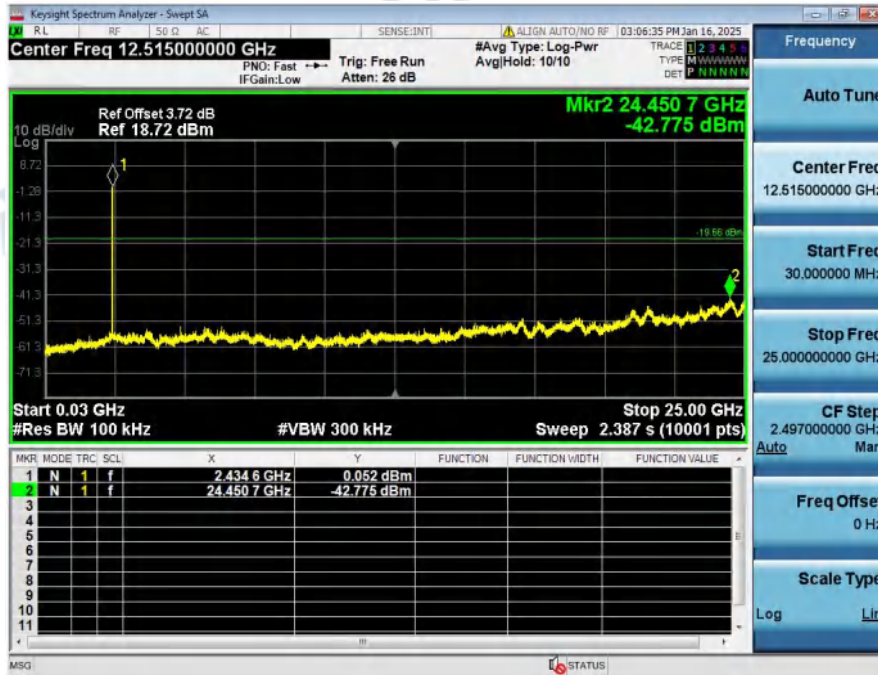
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



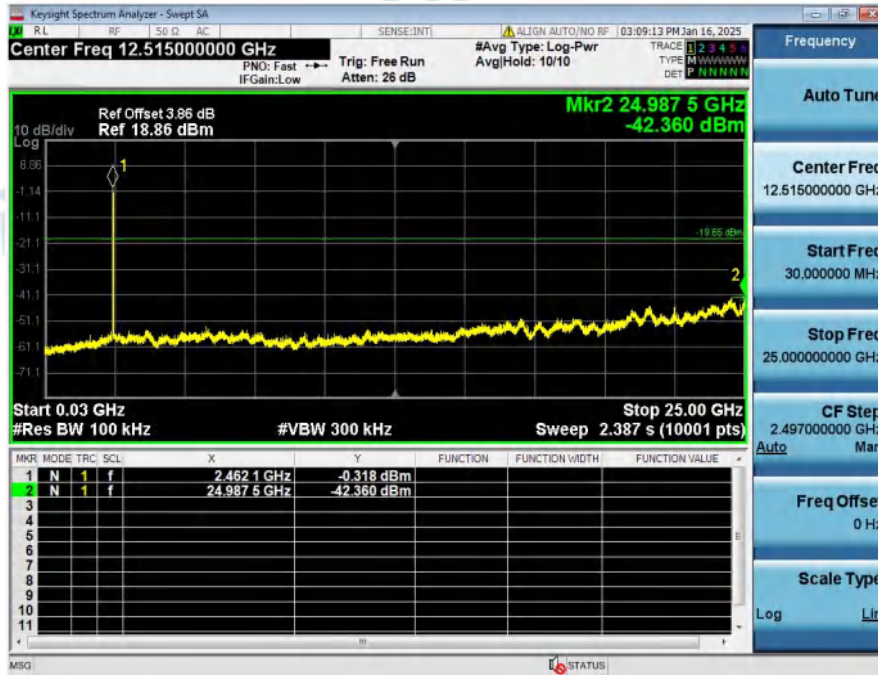
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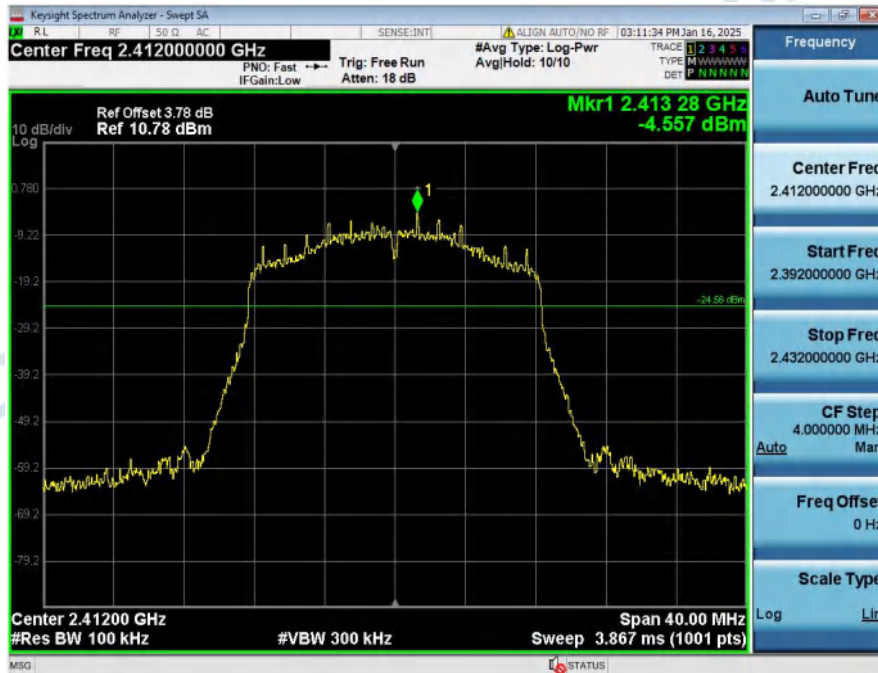
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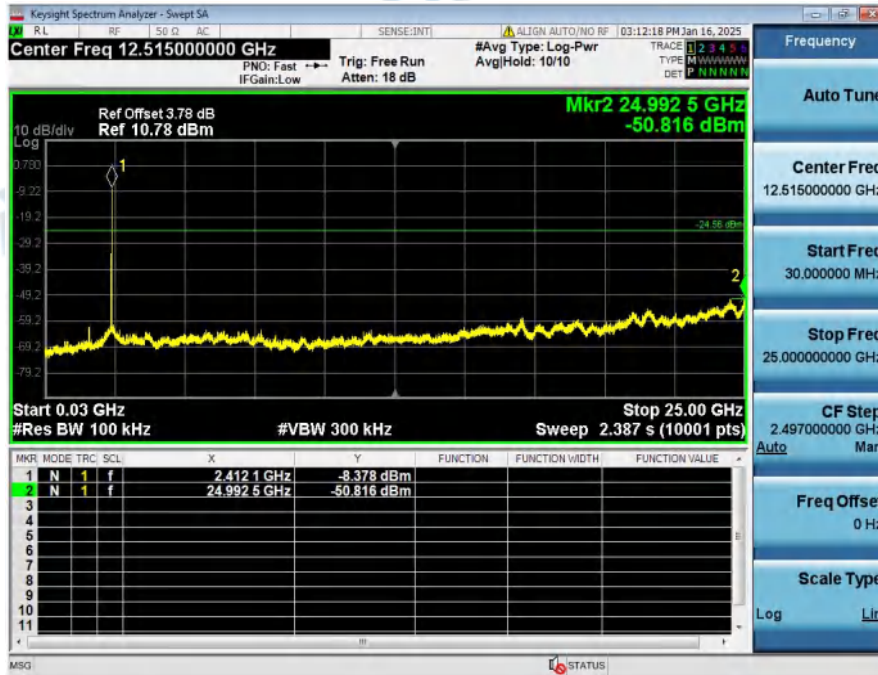
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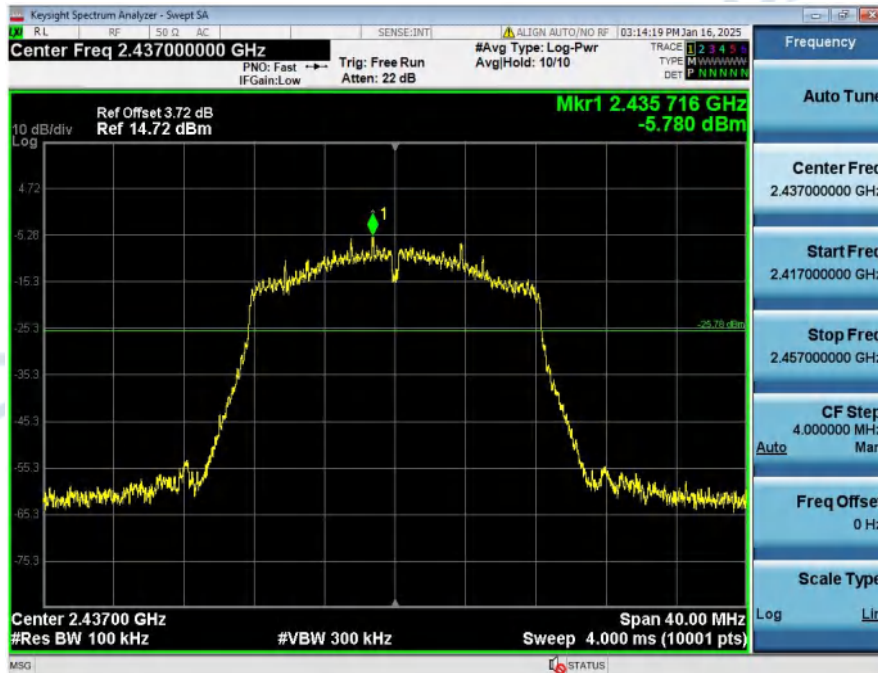
1_Reference_Level_NVNT_ANT1_802_11g_2412



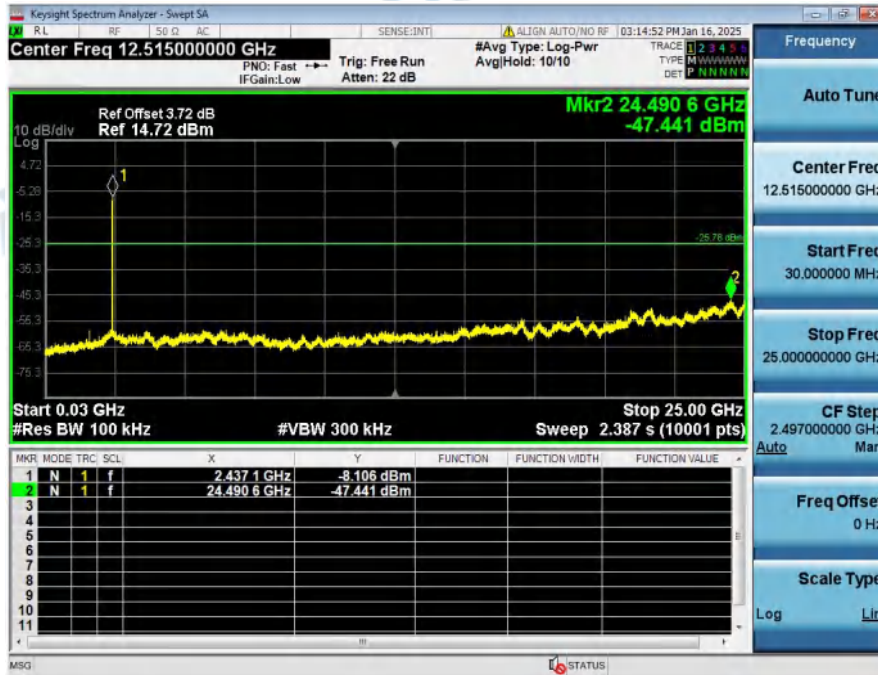
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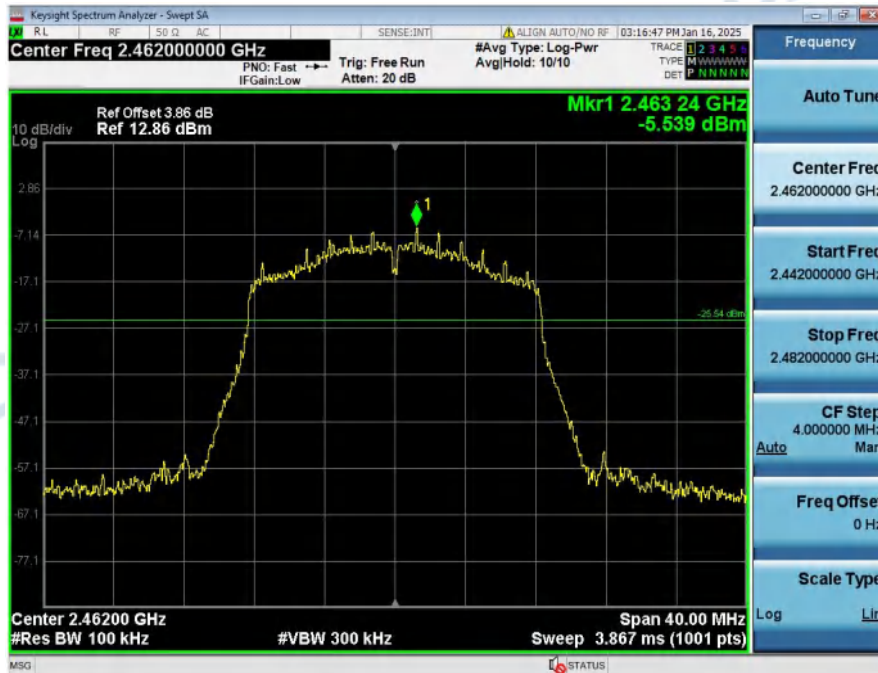
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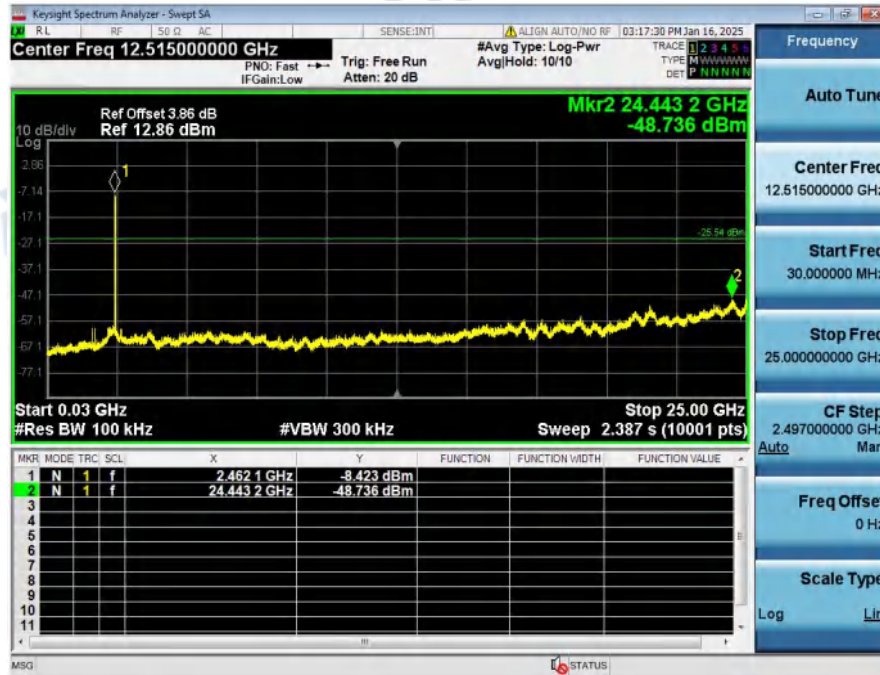
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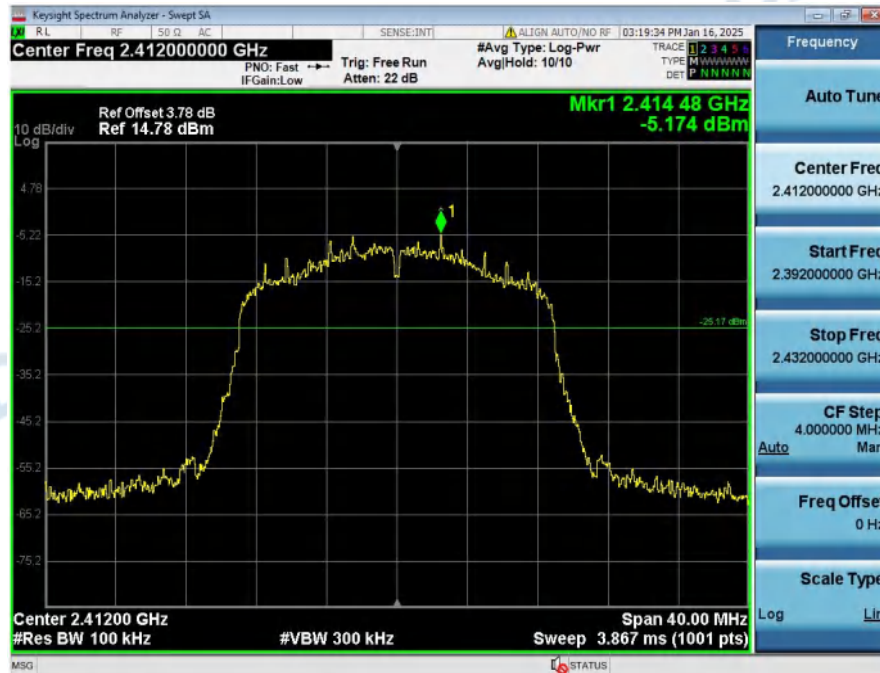
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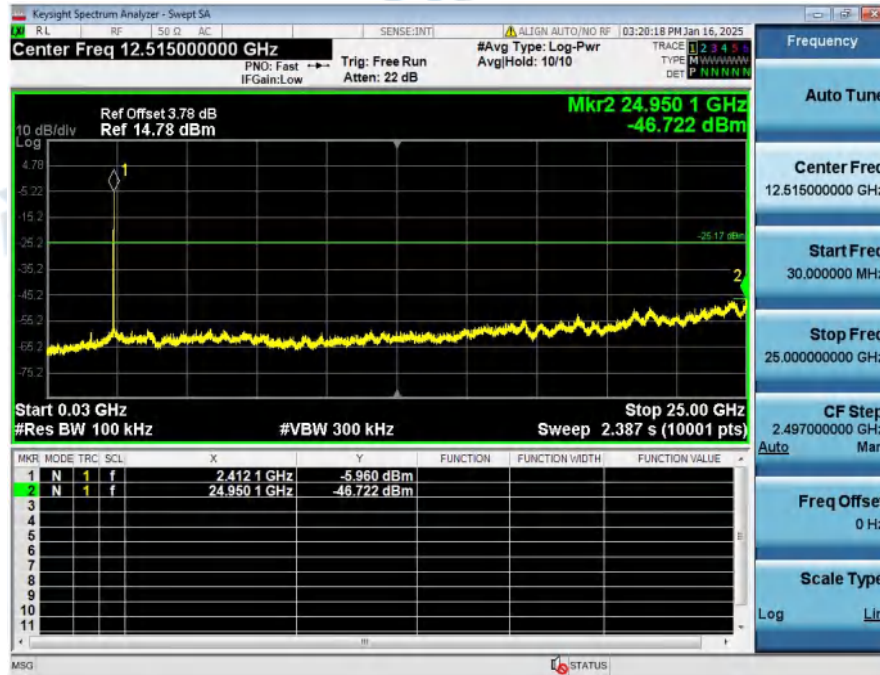
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



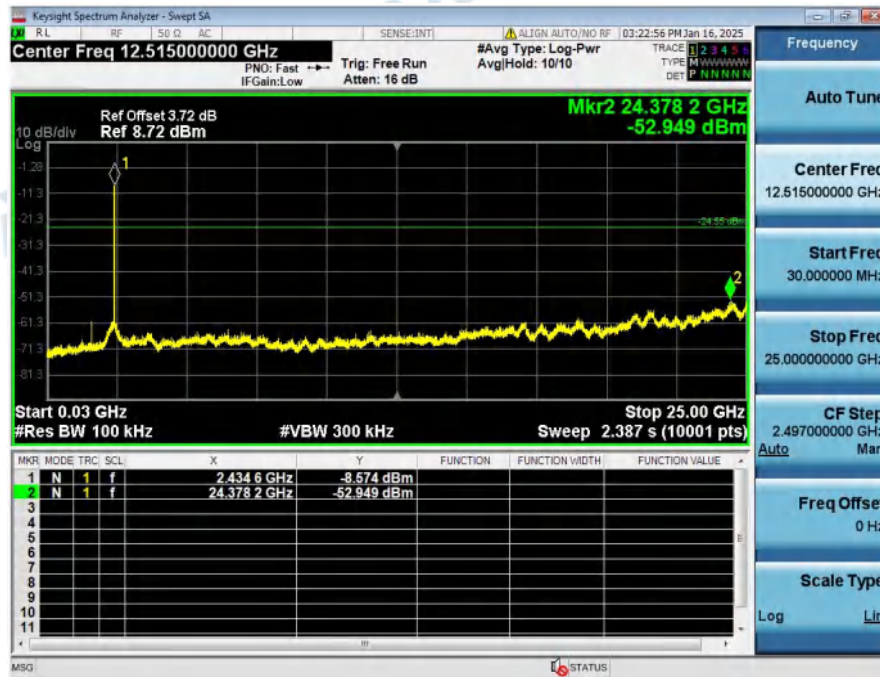
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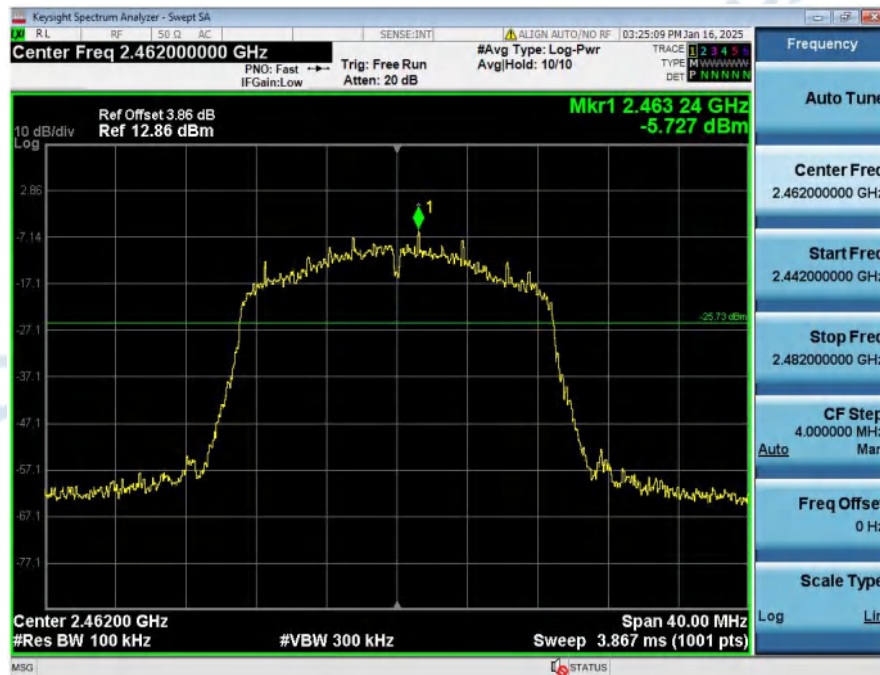
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



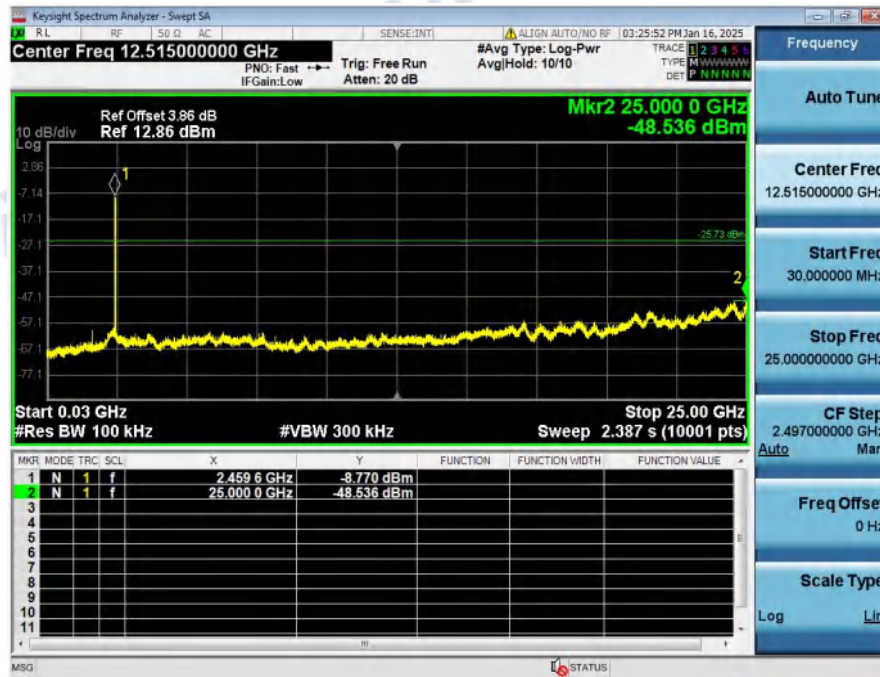
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



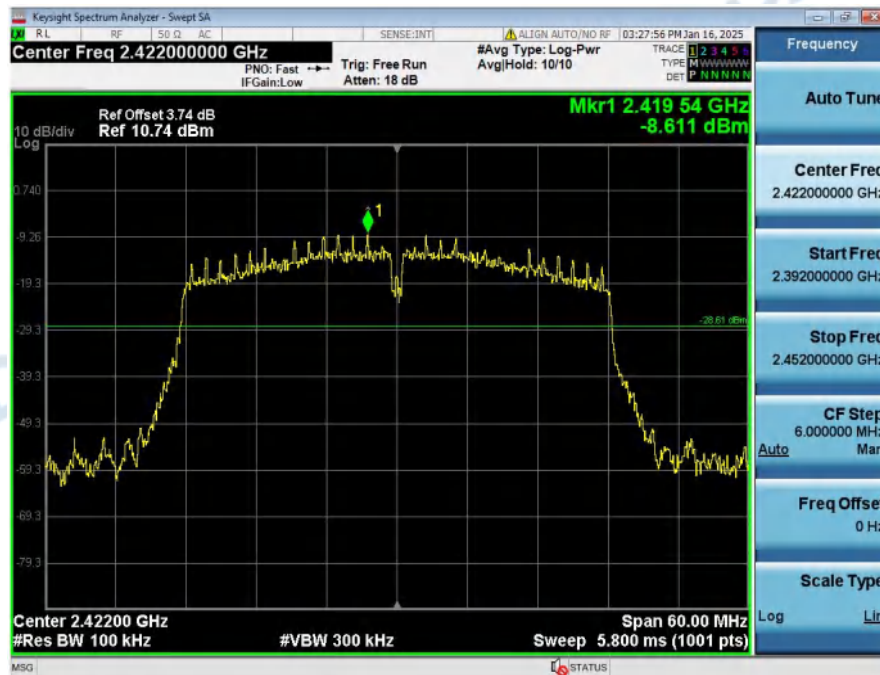
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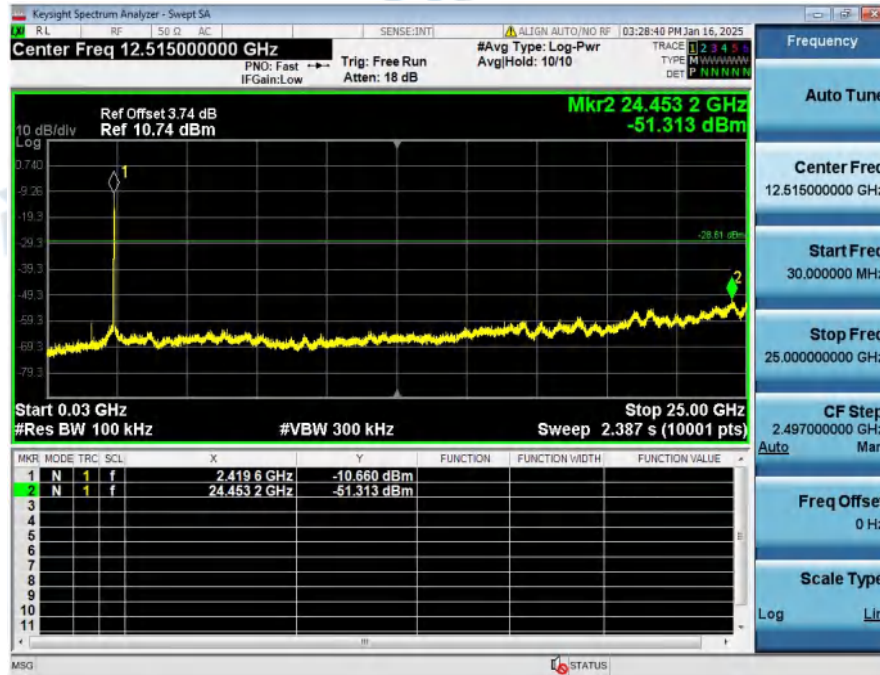
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



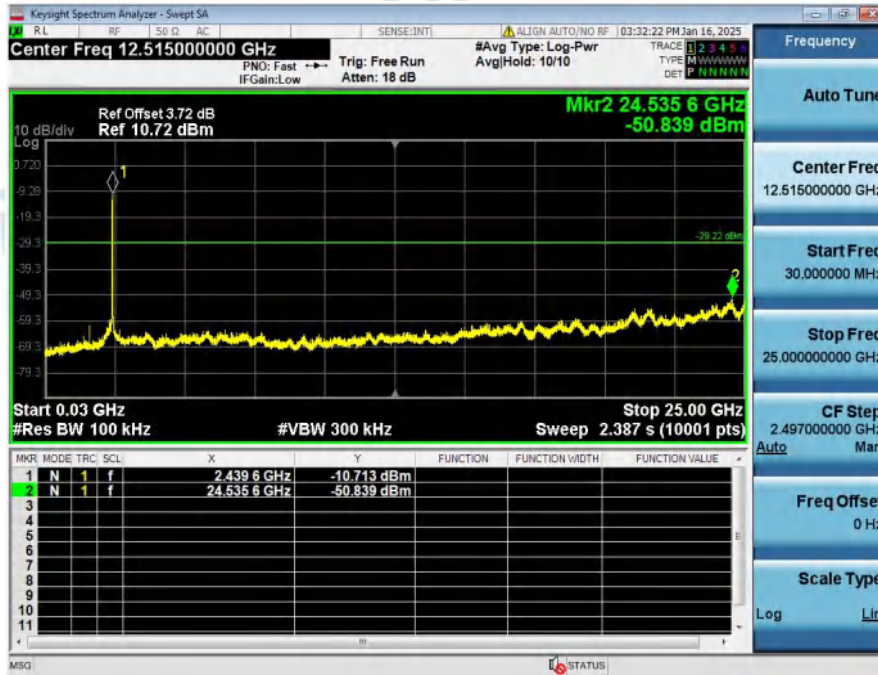
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



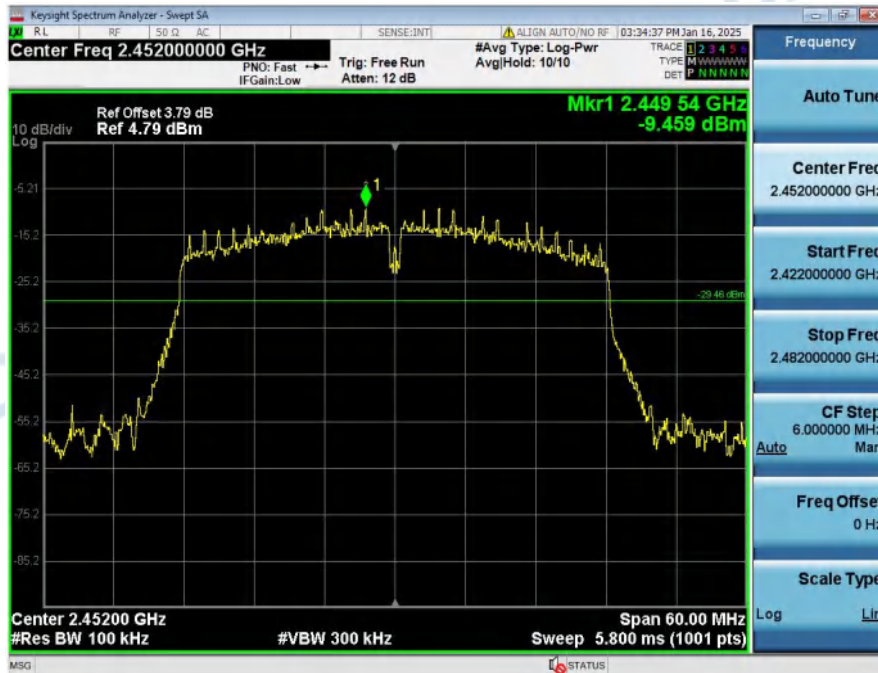
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



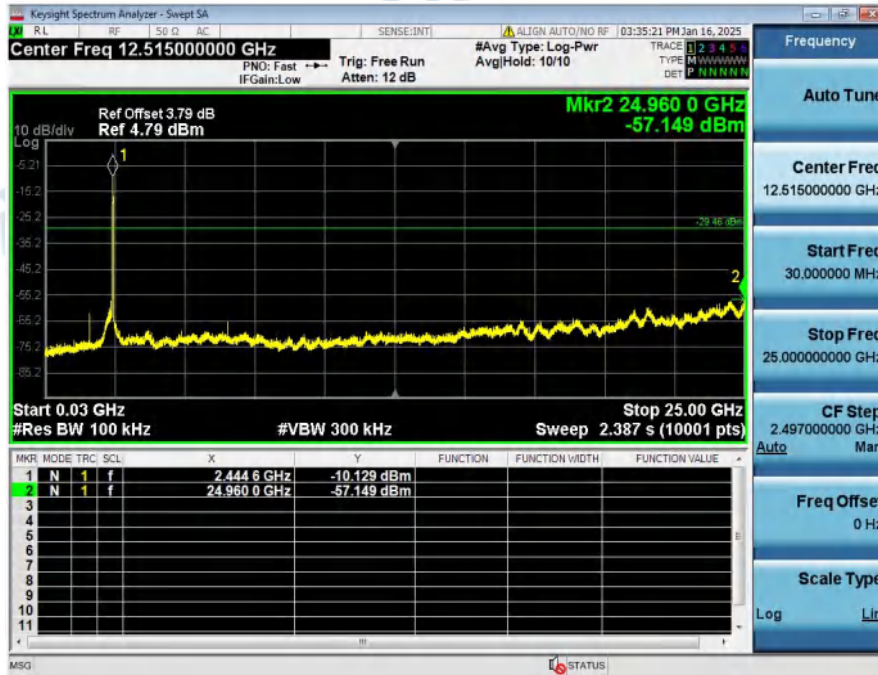
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



***** End of Report *****