

Appendix--5.3G

HT260106014-PD1317-FCC-5.3GWIFI

FCC_5.3G_WIFI (Part15.407) Test Data

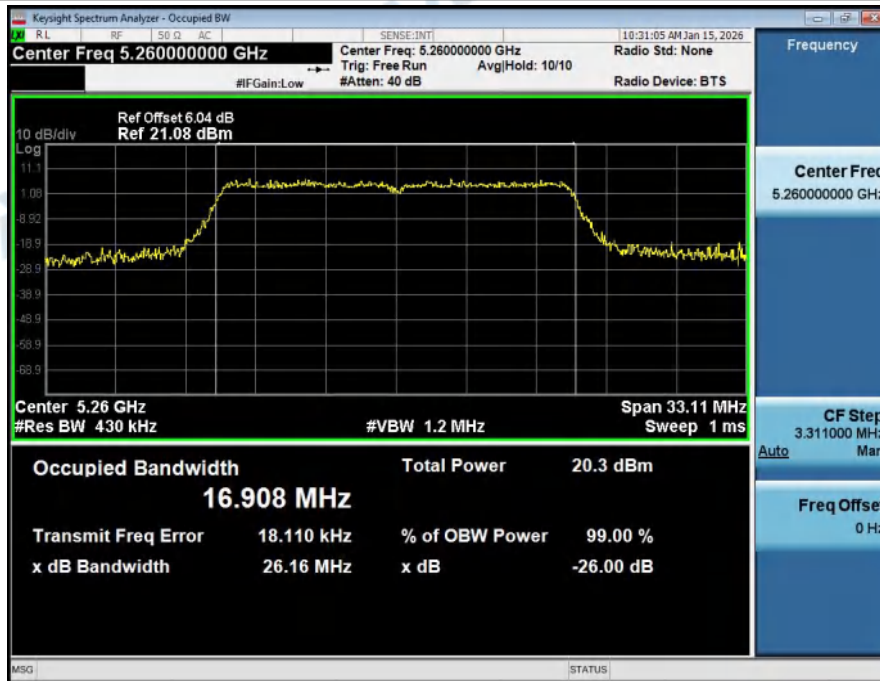
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5260.00	26.16	16.50
NVNT	ANT1	802.11a	5300.00	24.99	16.50
NVNT	ANT1	802.11a	5320.00	26.57	16.50
NVNT	ANT1	802.11n(HT20)	5260.00	29.99	17.67
NVNT	ANT1	802.11n(HT20)	5300.00	29.75	17.64
NVNT	ANT1	802.11n(HT20)	5320.00	31.12	17.65
NVNT	ANT1	802.11ac(VHT20)	5260.00	33.68	17.67
NVNT	ANT1	802.11ac(VHT20)	5300.00	31.61	17.66
NVNT	ANT1	802.11ac(VHT20)	5320.00	29.56	17.68
NVNT	ANT1	802.11n(HT40)	5270.00	58.89	36.14
NVNT	ANT1	802.11n(HT40)	5310.00	57.55	36.19
NVNT	ANT1	802.11ac(VHT40)	5270.00	61.14	36.18
NVNT	ANT1	802.11ac(VHT40)	5310.00	57.35	36.24
NVNT	ANT1	802.11ac(VHT80)	5290.00	96.64	75.67

99%_OCB_NVNT_ANT1_802_11a_5260



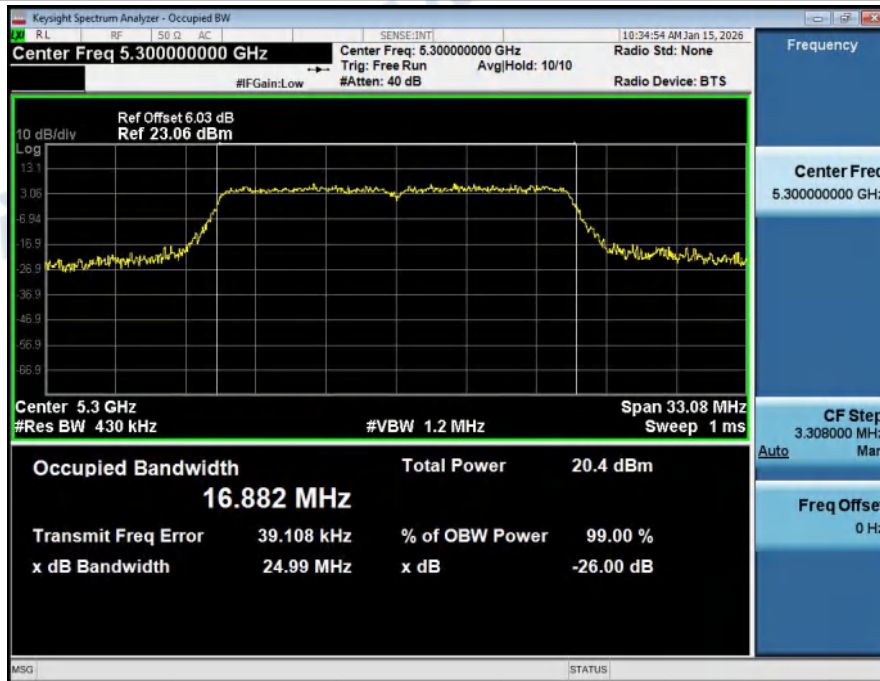
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99%_OCB_NVNT_ANT1_802_11a_5300



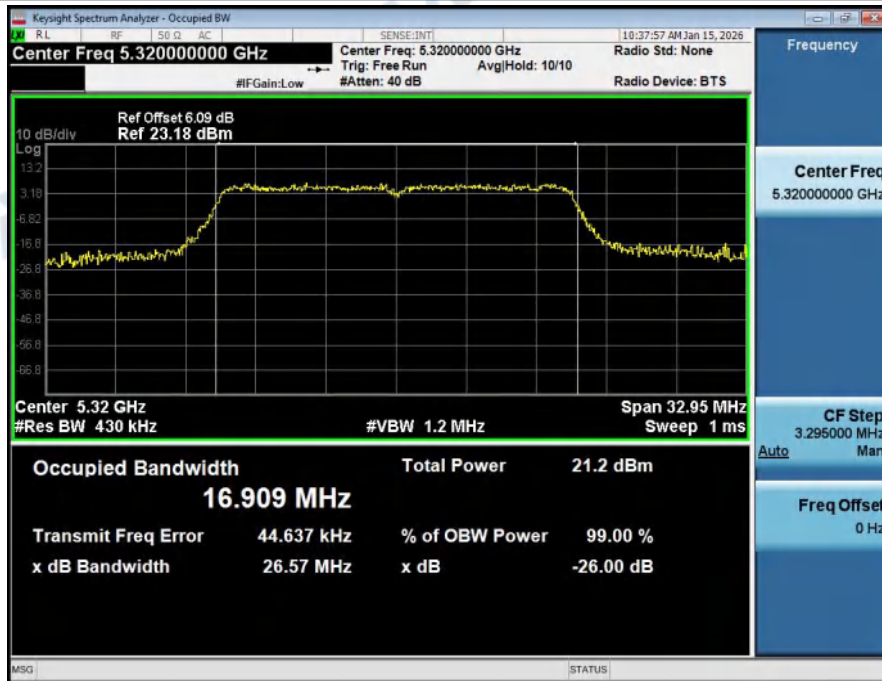
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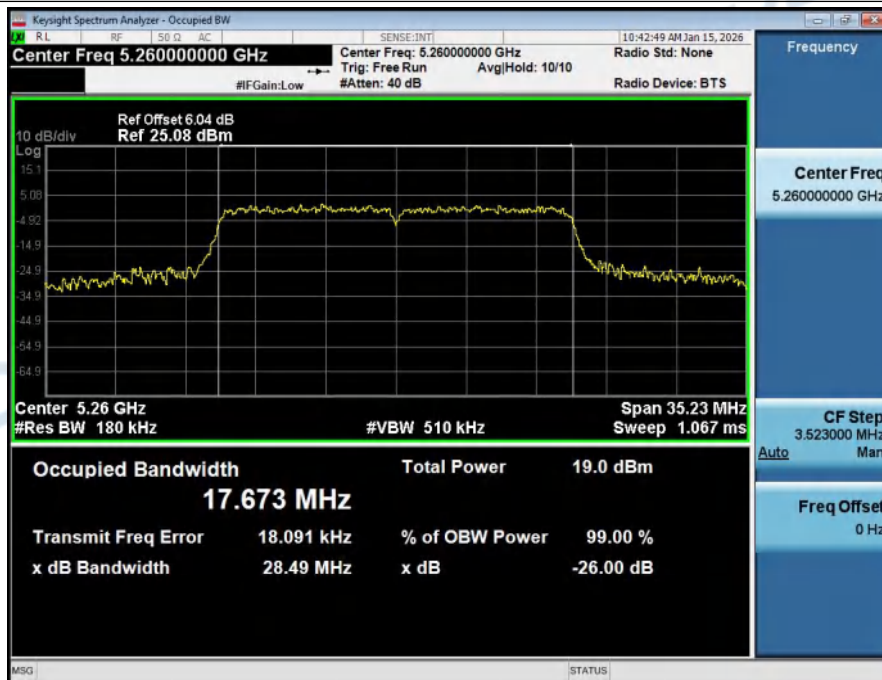
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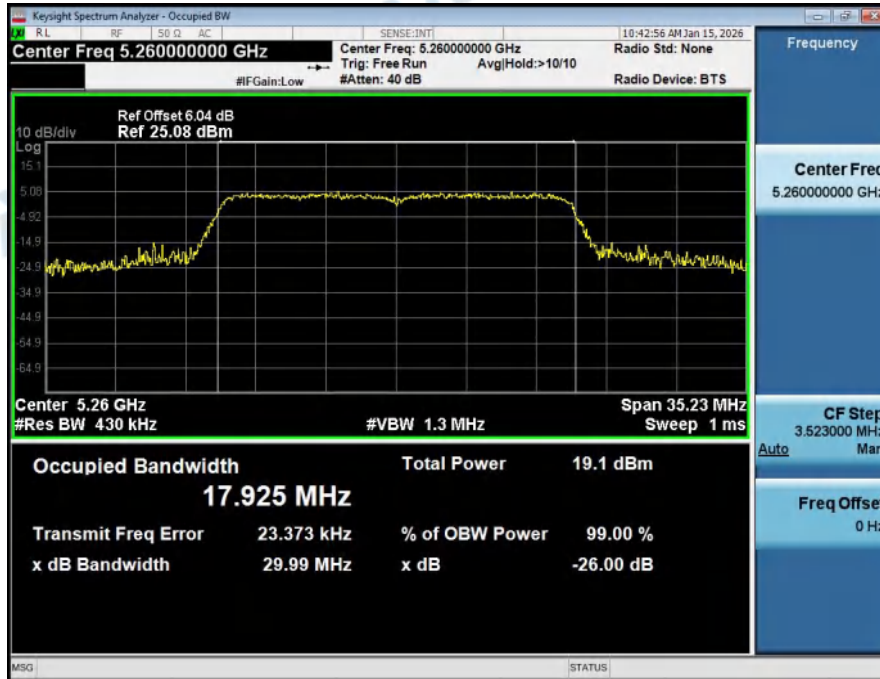
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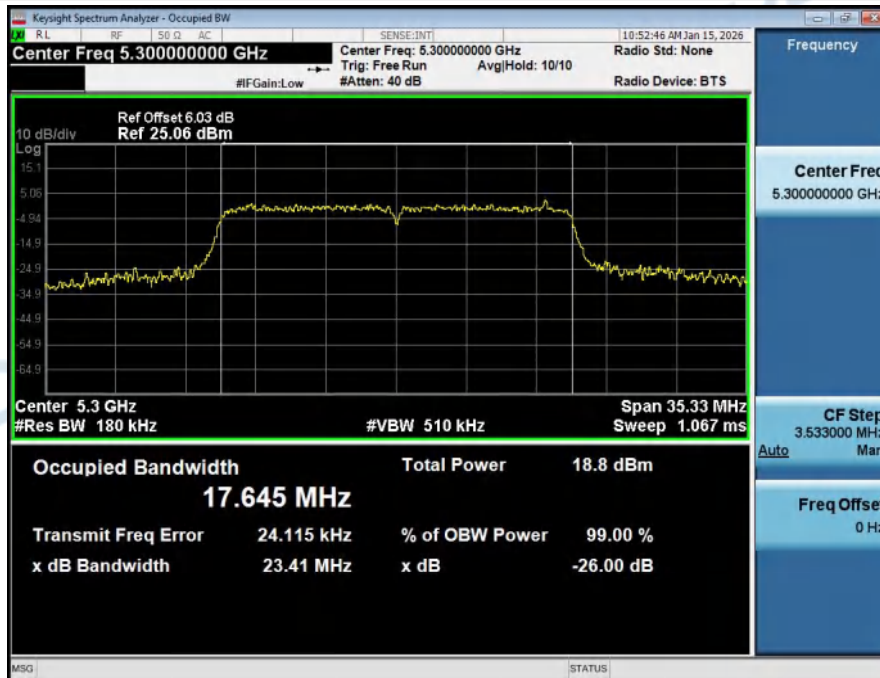
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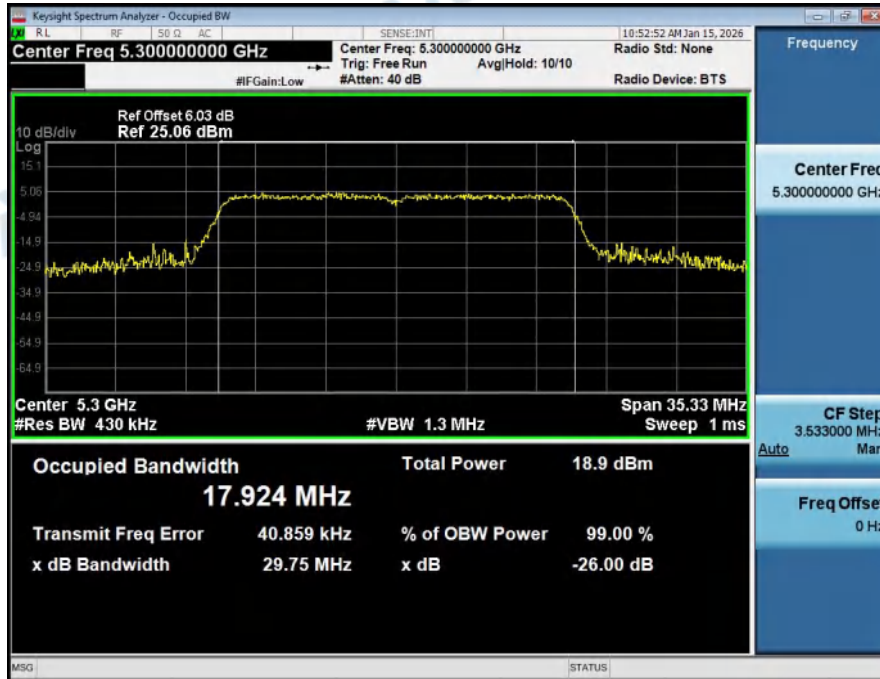
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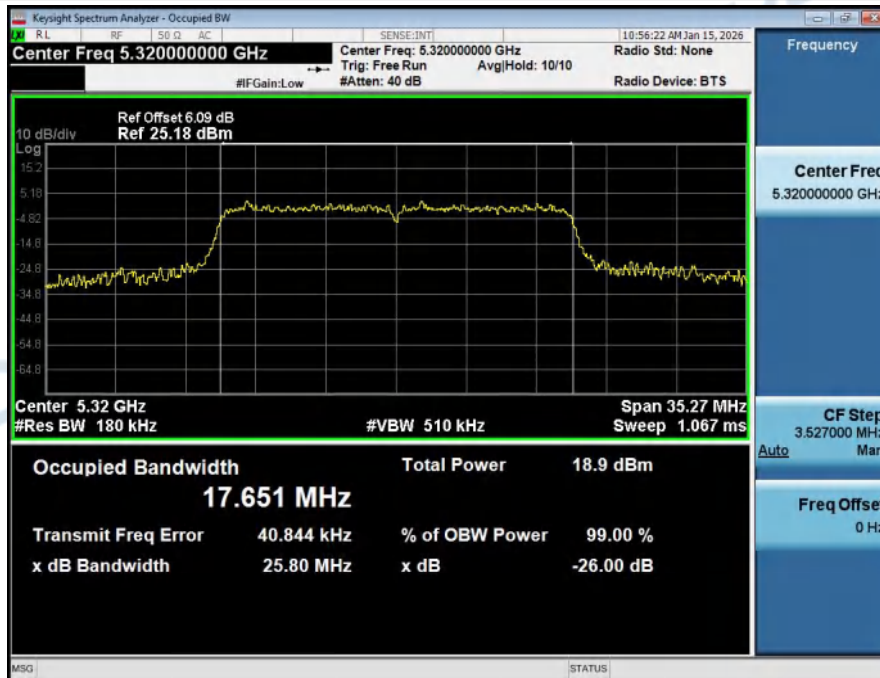
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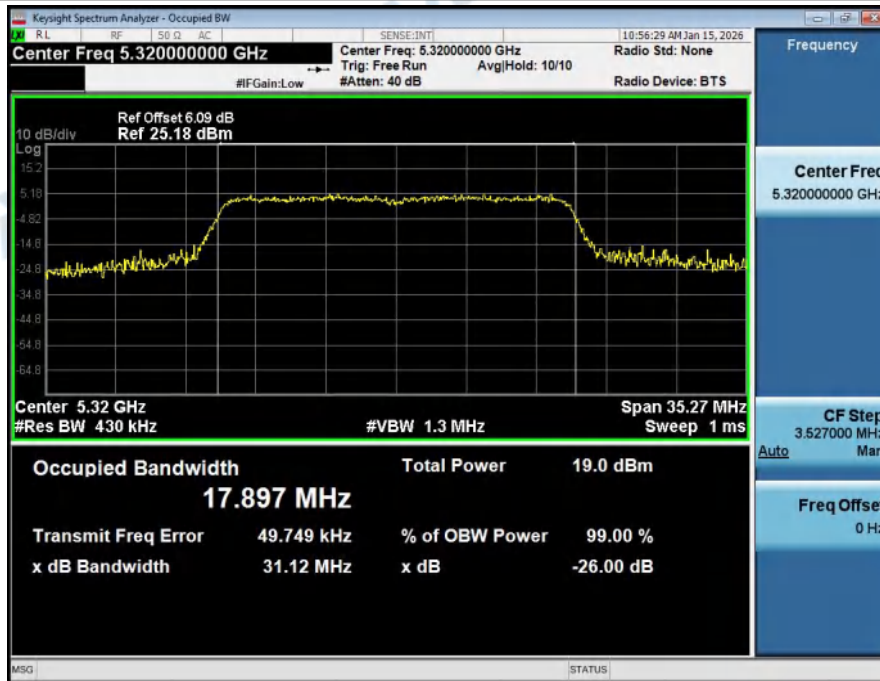
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99%_OCB_NVNT_ANT1_802_11n(HT20)_5320



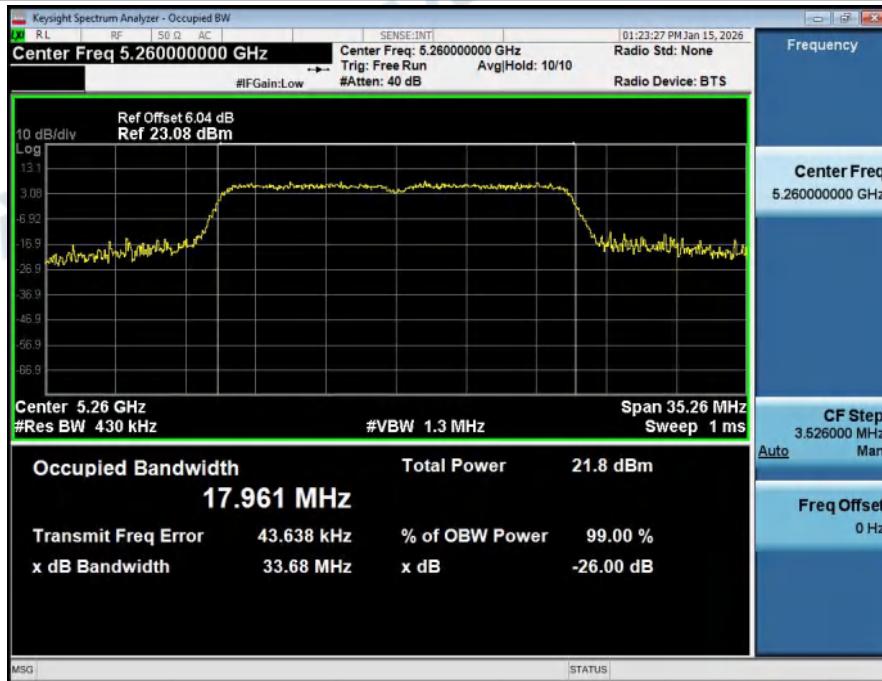
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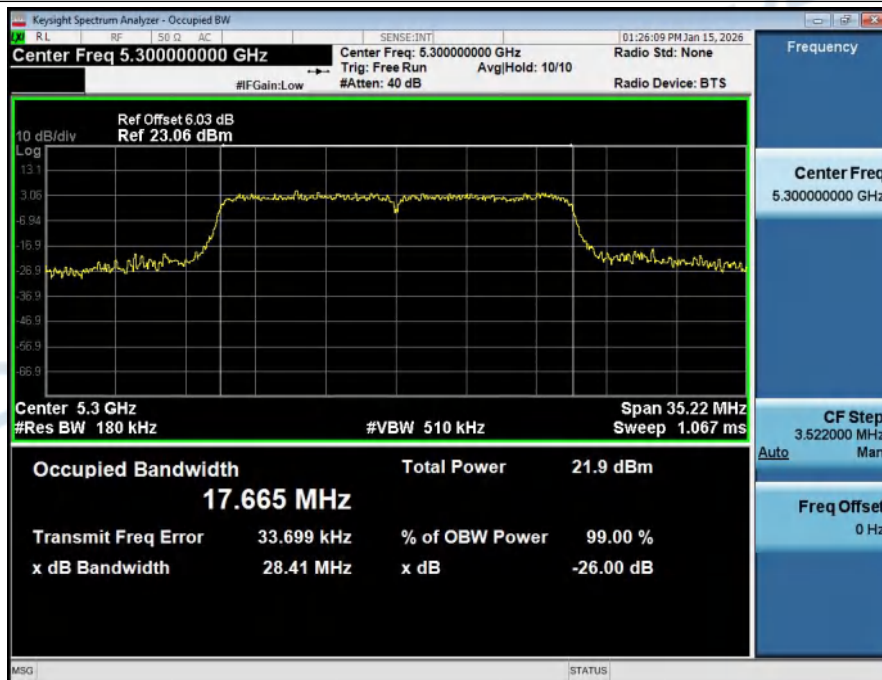
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5260



-26BW_NVNT_ANT1_802_11ac(VHT20)_5260



99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5300



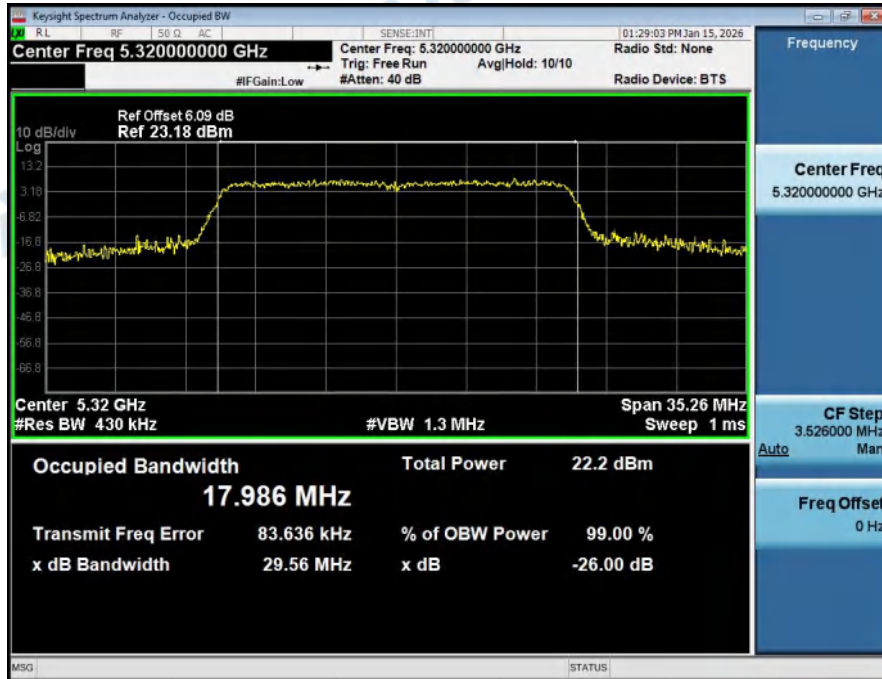
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99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5320



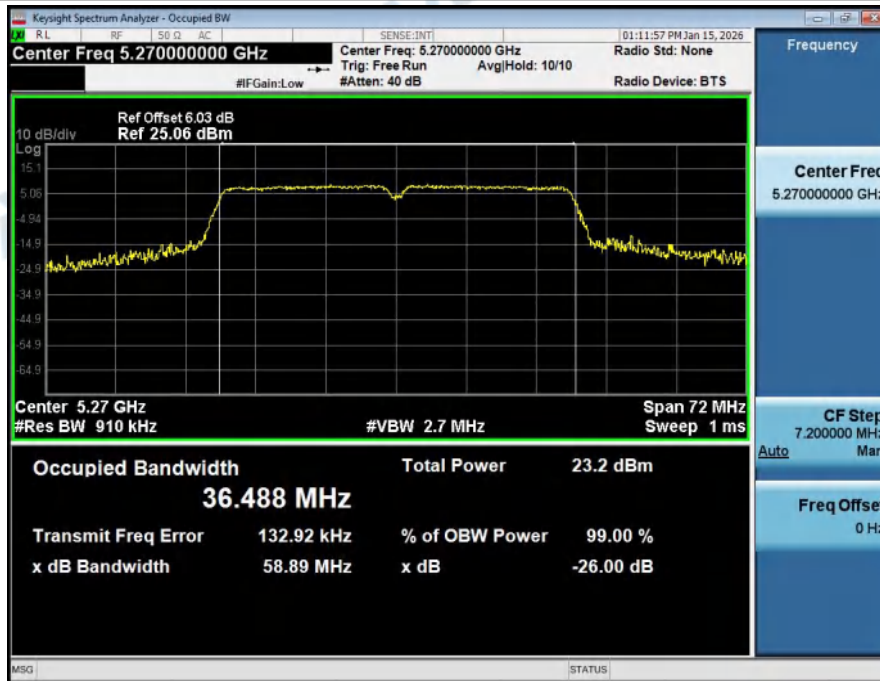
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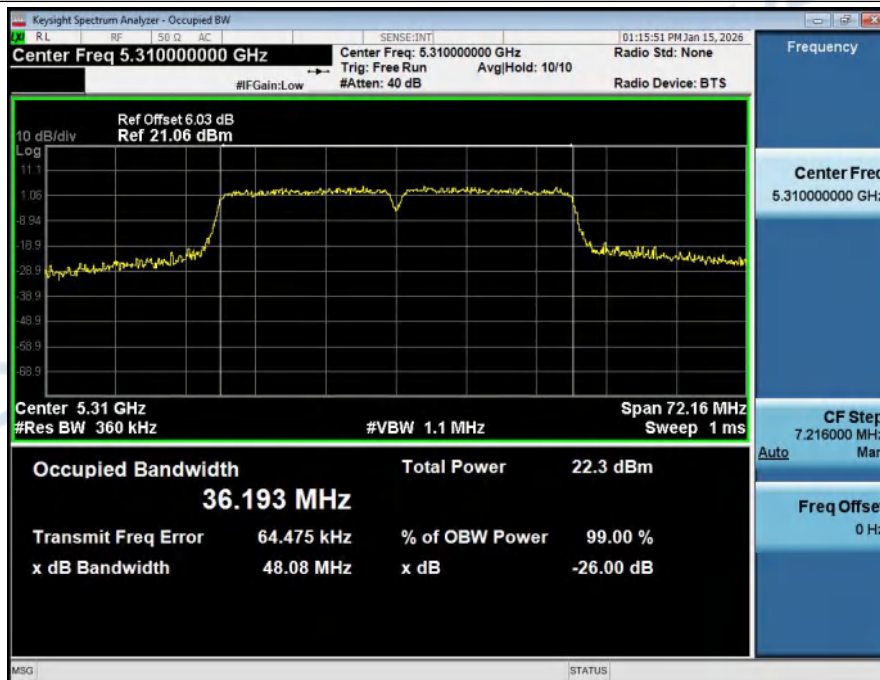
99%_OCB_NVNT_ANT1_802_11n(HT40)_5270



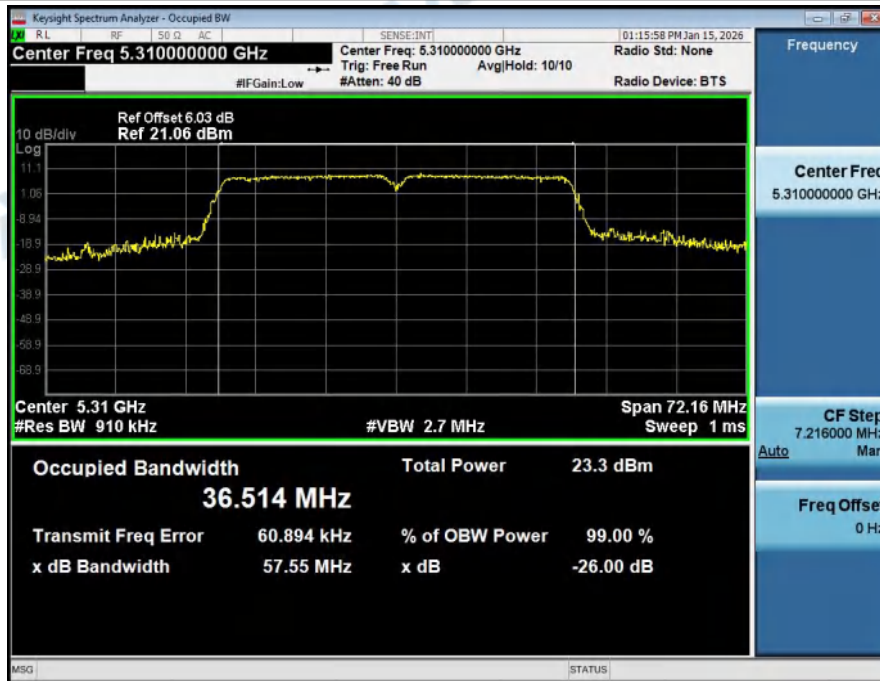
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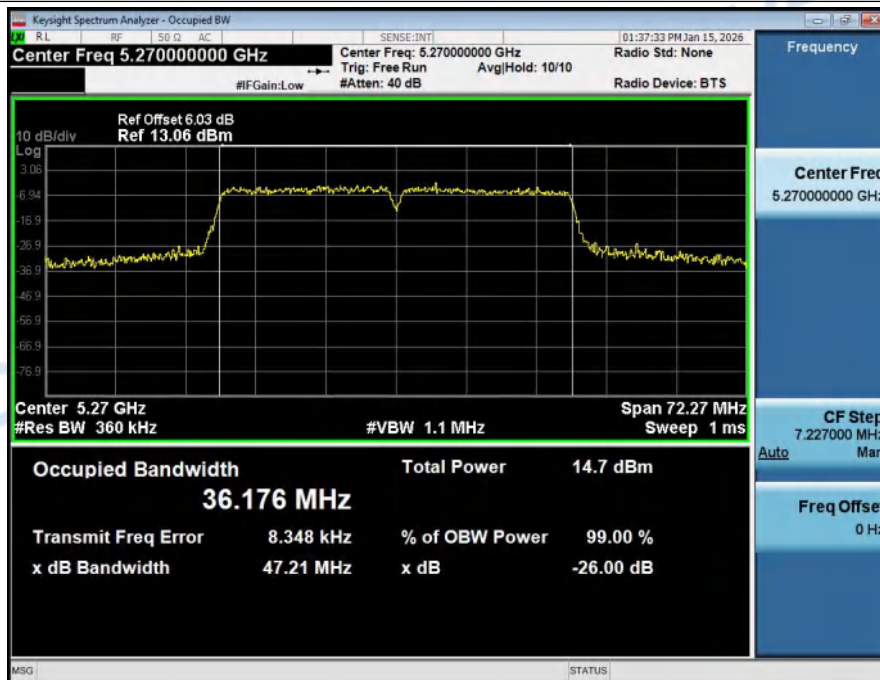
99%_OCB_NVNT_ANT1_802_11n(HT40)_5310



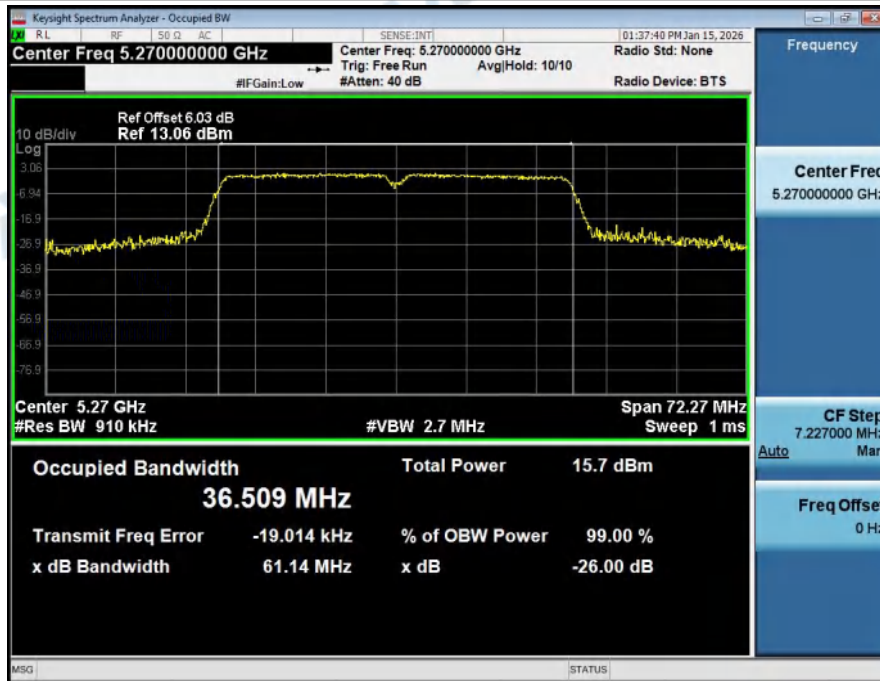
-26BW_NVNT_ANT1_802_11n(HT40)_5310



99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5270



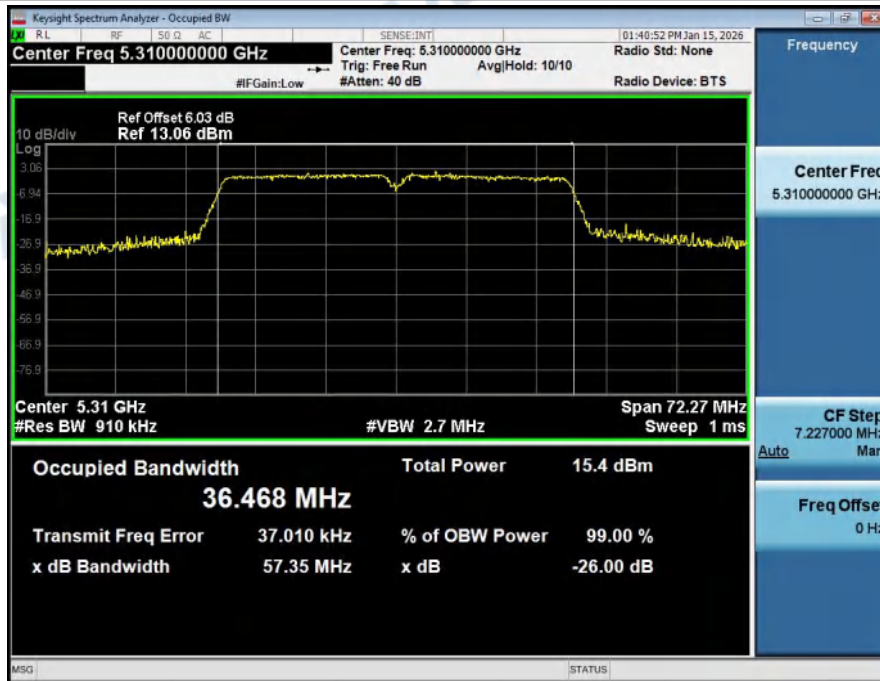
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99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5310



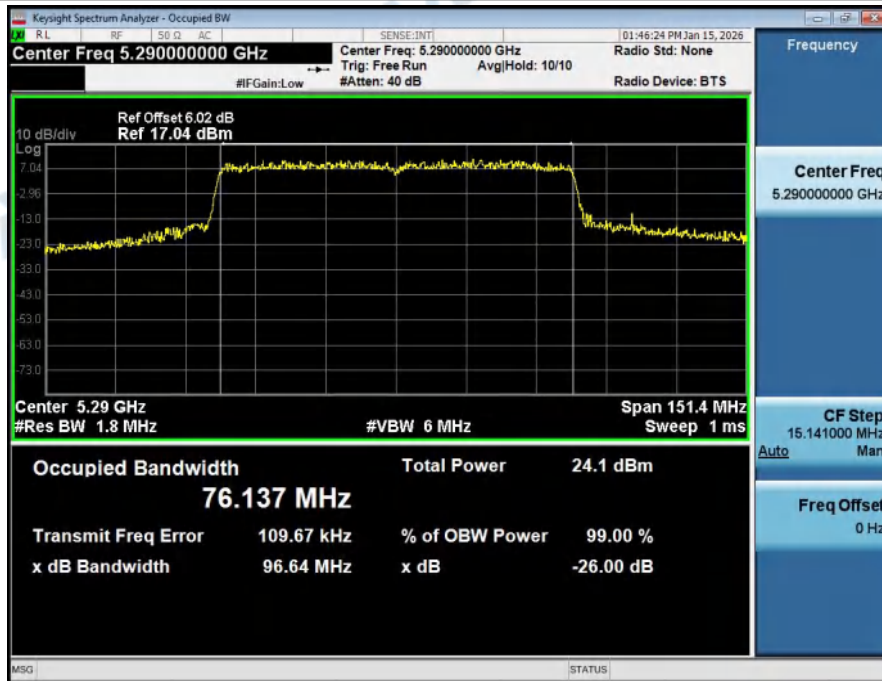
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99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5290



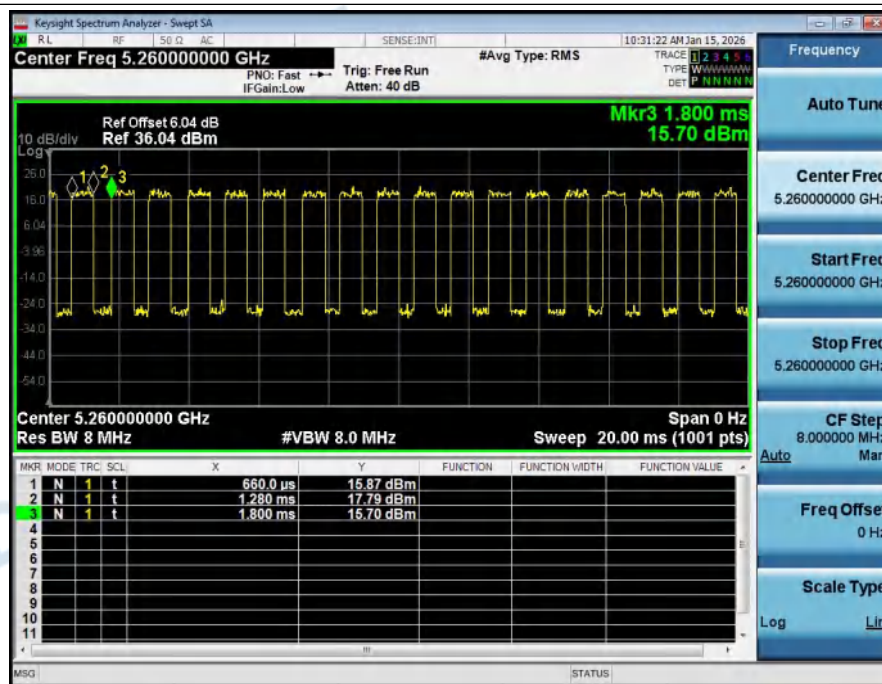
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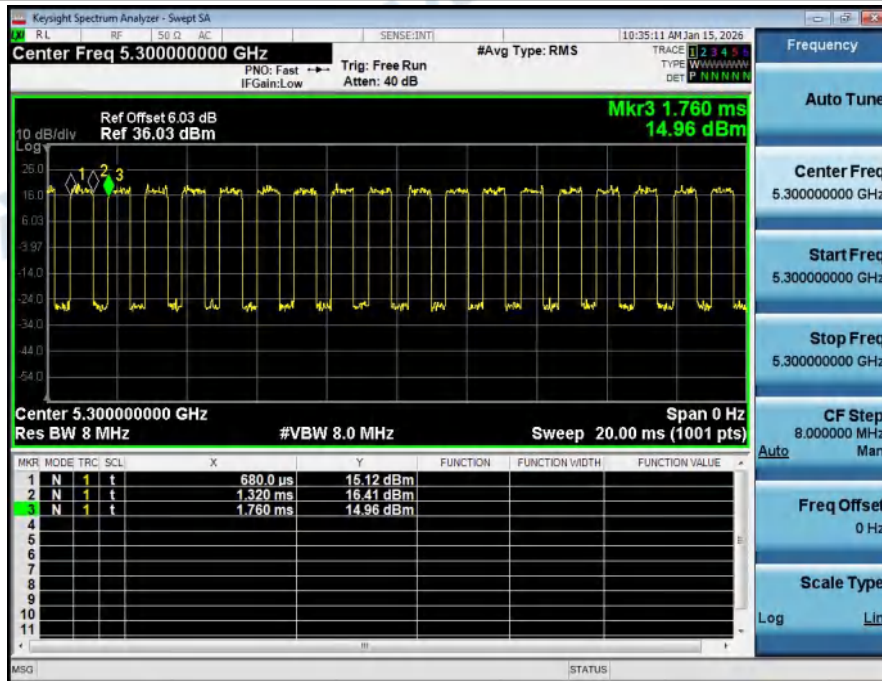
2. Duty Cycle

Condition	Antenna	Modulation	Frequency(MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5260.00	54.39	2.65
NVNT	ANT1	802.11a	5300.00	59.26	2.27
NVNT	ANT1	802.11a	5320.00	57.41	2.41
NVNT	ANT1	802.11n(HT20)	5260.00	91.70	0.38
NVNT	ANT1	802.11n(HT20)	5300.00	92.03	0.36
NVNT	ANT1	802.11n(HT20)	5320.00	91.70	0.38
NVNT	ANT1	802.11ac(VHT20)	5260.00	92.06	0.36
NVNT	ANT1	802.11ac(VHT20)	5300.00	92.03	0.36
NVNT	ANT1	802.11ac(VHT20)	5320.00	92.06	0.36
NVNT	ANT1	802.11n(HT40)	5270.00	83.22	0.80
NVNT	ANT1	802.11n(HT40)	5310.00	84.83	0.71
NVNT	ANT1	802.11ac(VHT40)	5270.00	84.25	0.74
NVNT	ANT1	802.11ac(VHT40)	5310.00	84.93	0.71
NVNT	ANT1	802.11ac(VHT80)	5290.00	72.50	1.40

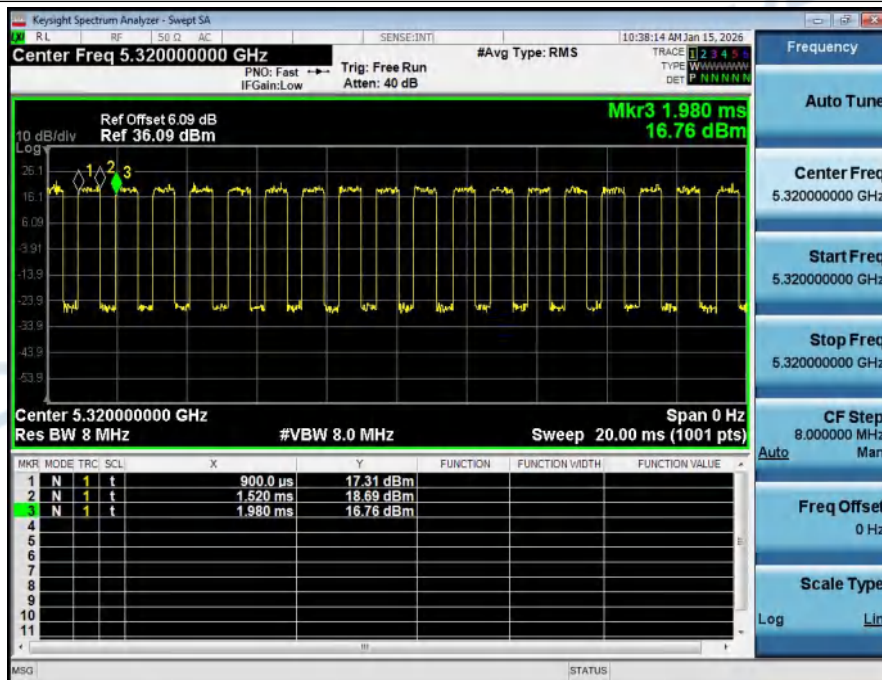
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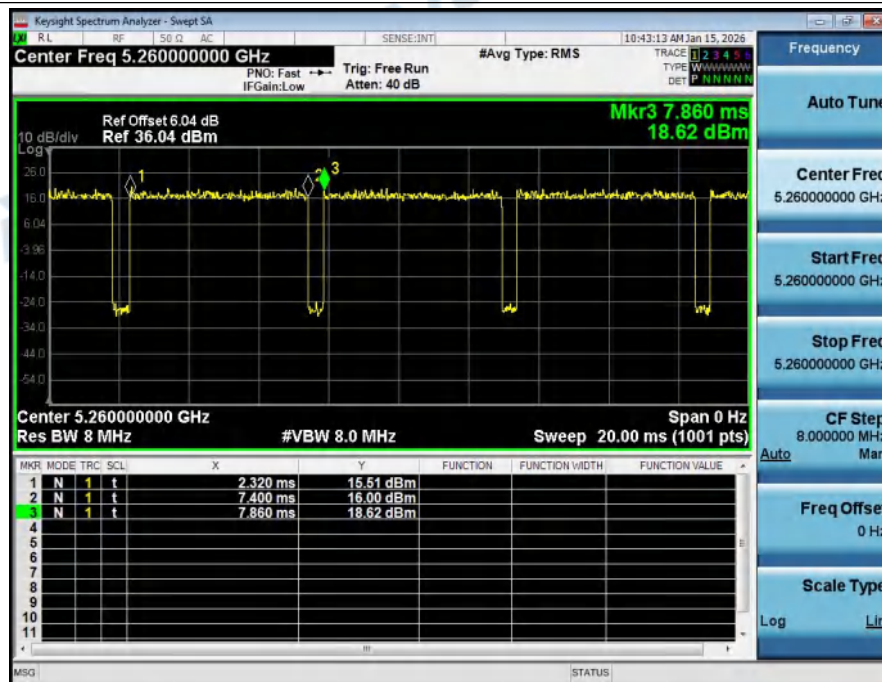
Duty_Cycle_NVNT_ANT1_802_11a_5300



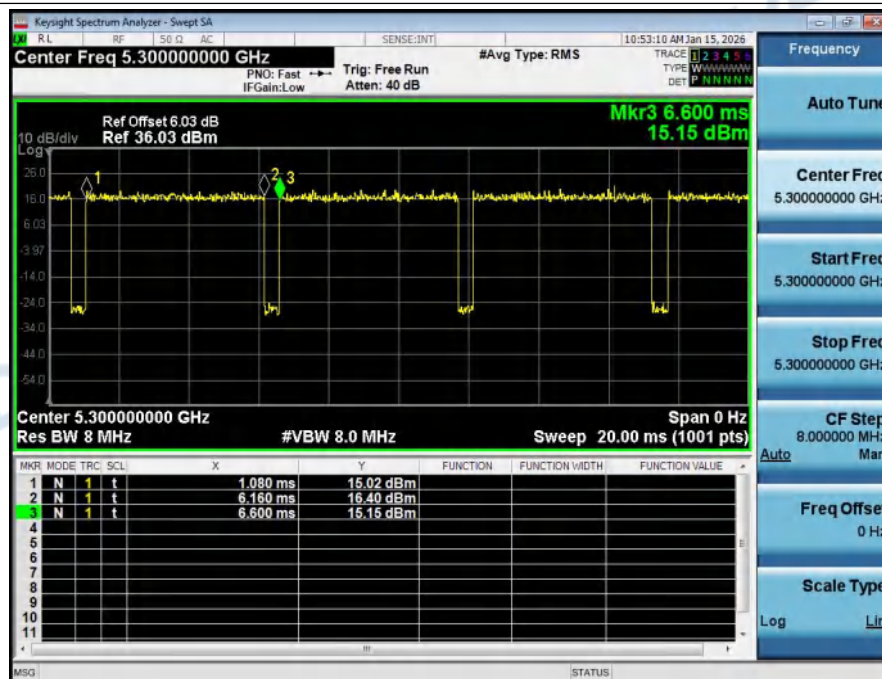
Duty_Cycle_NVNT_ANT1_802_11a_5320



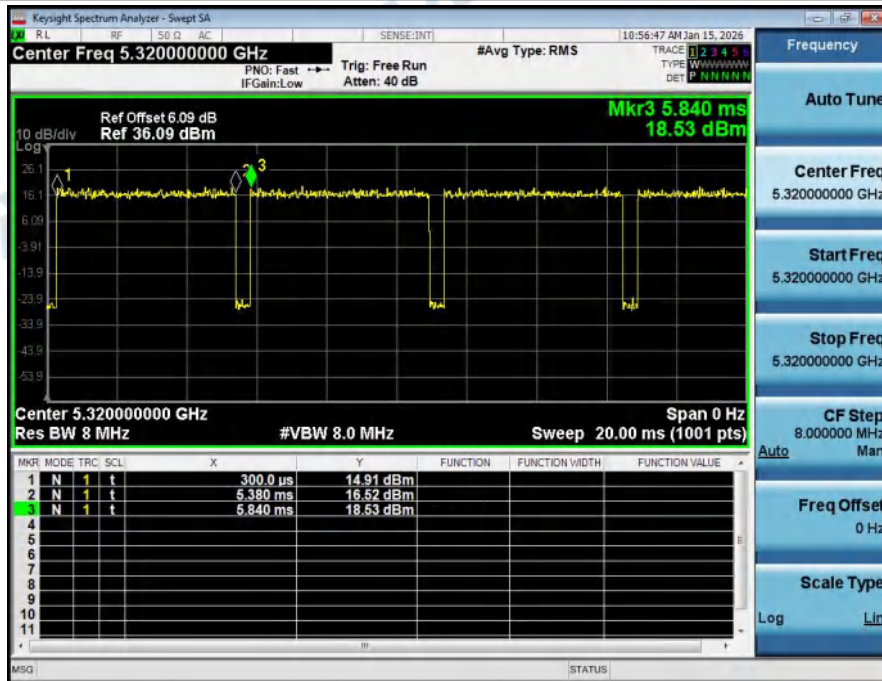
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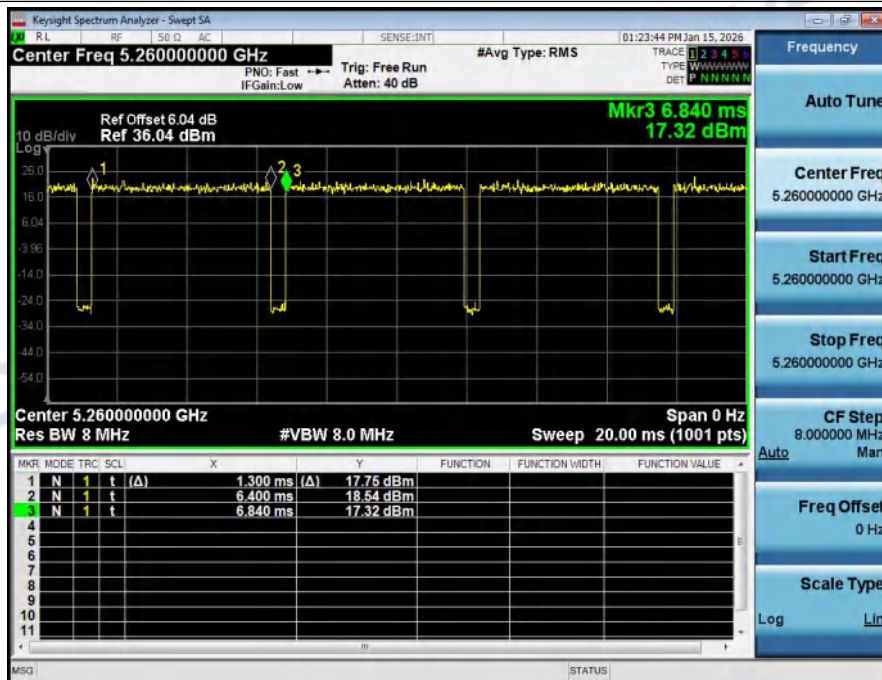
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5300



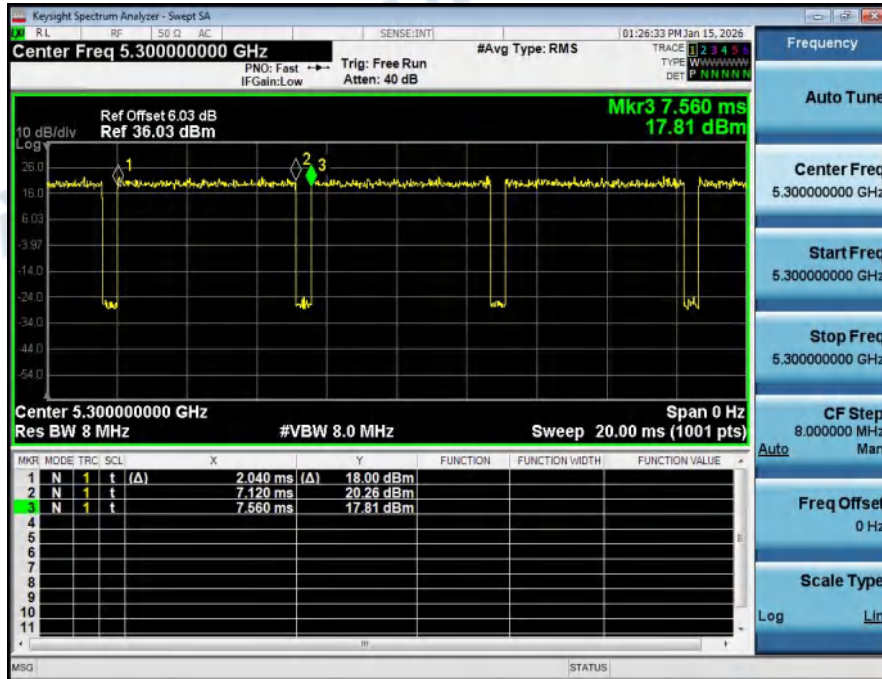
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5320



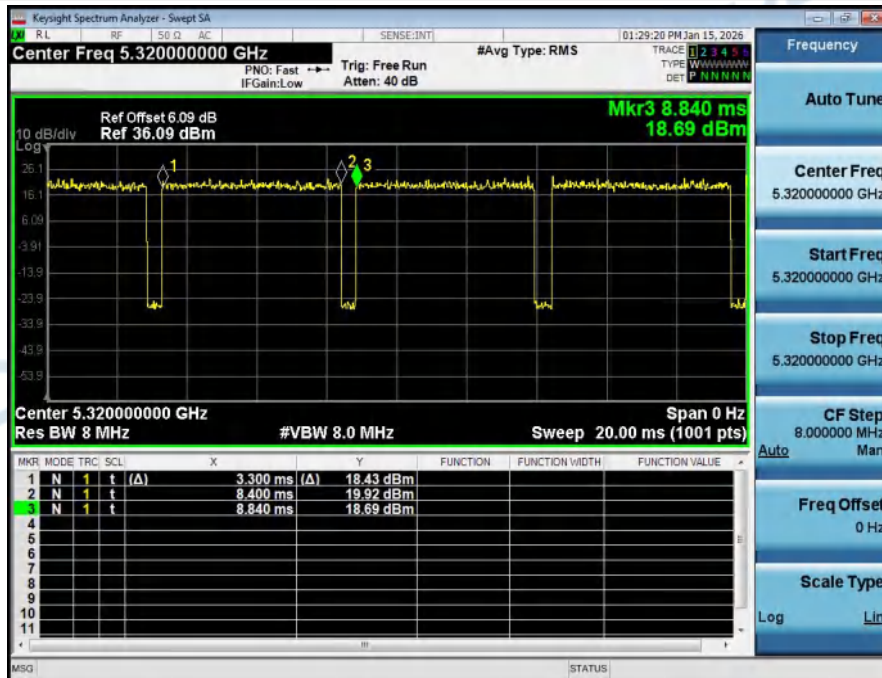
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5260



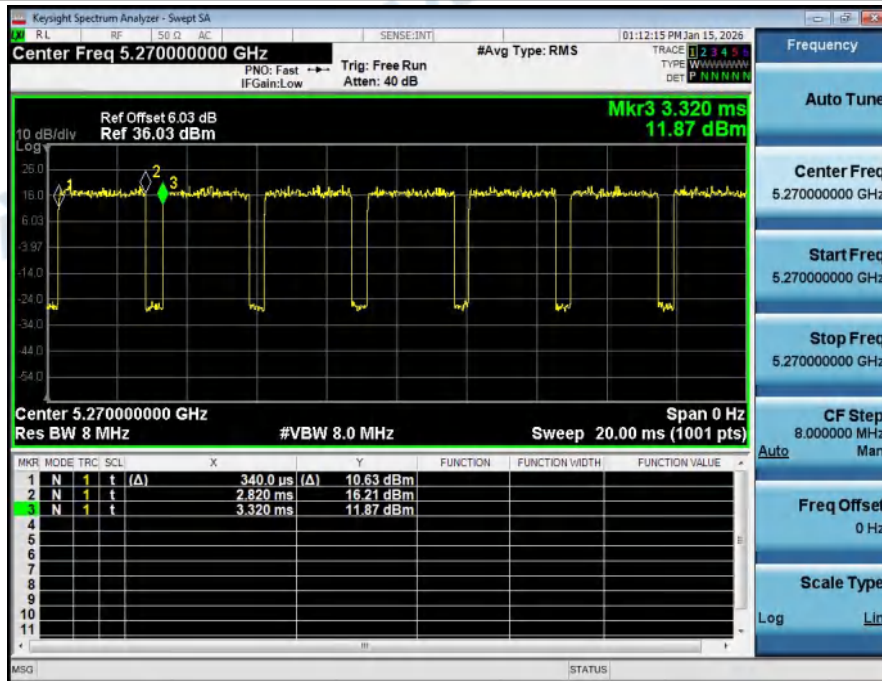
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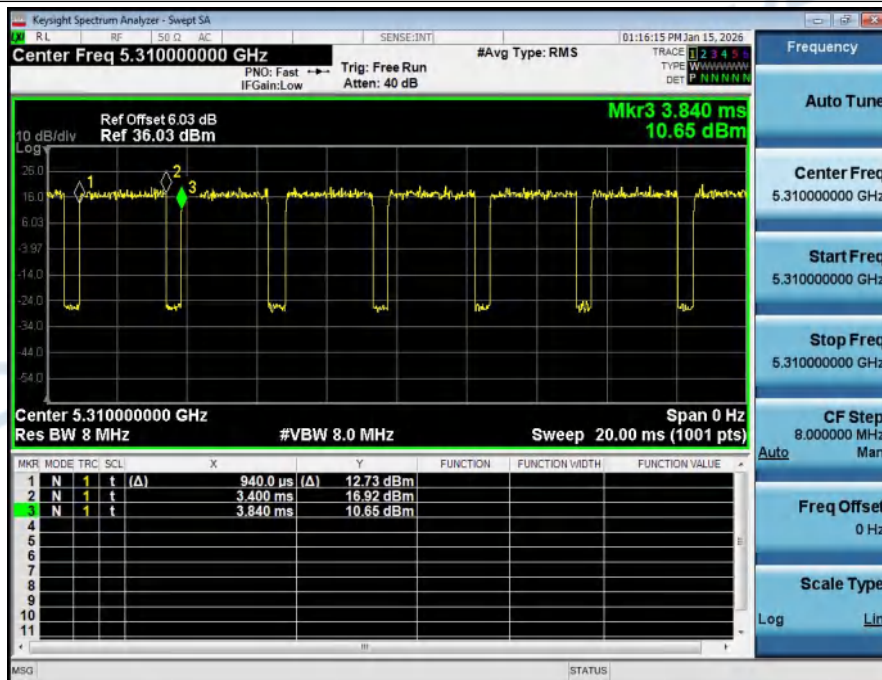
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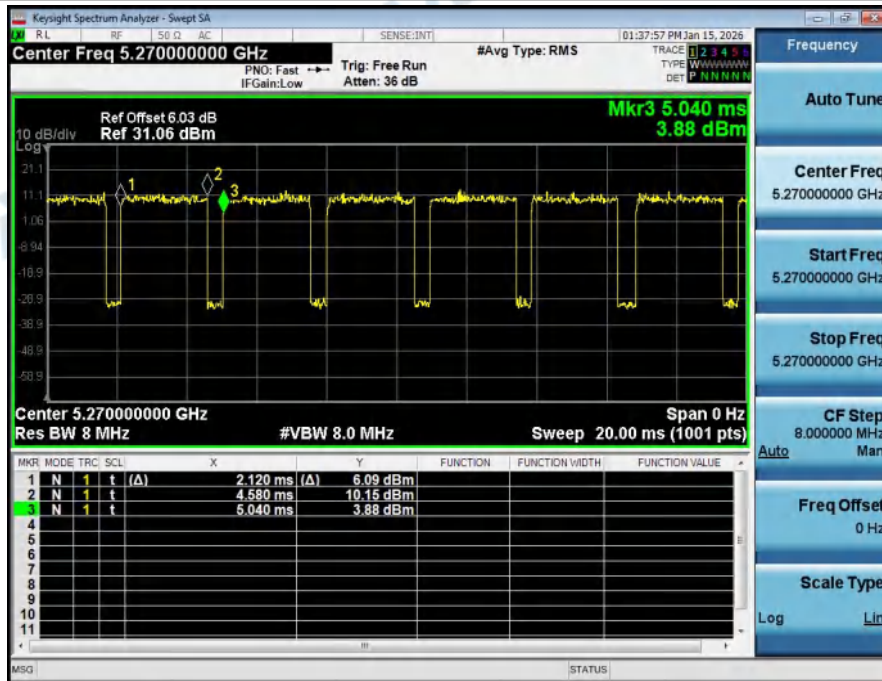
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5270



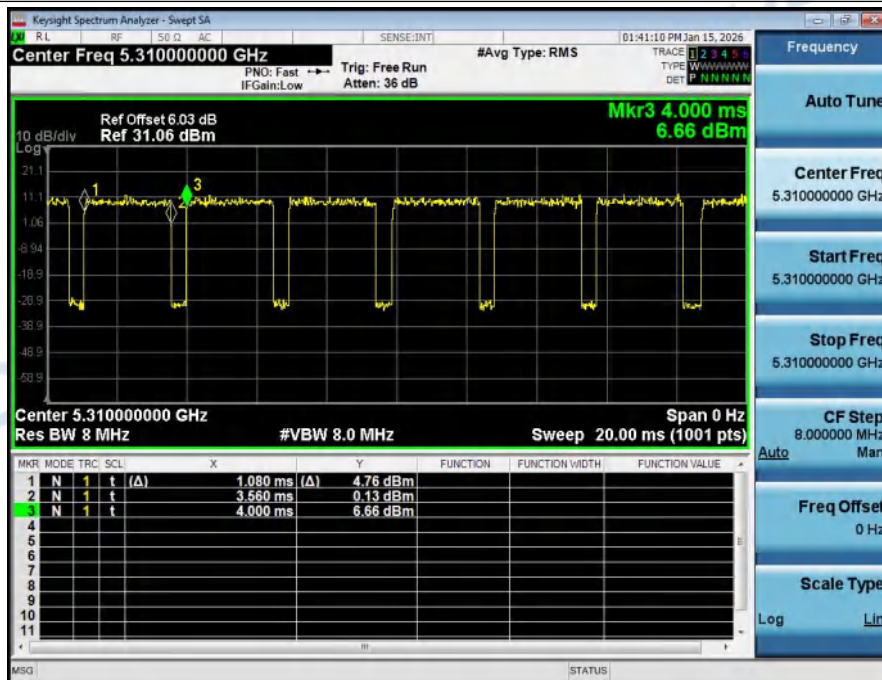
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5310



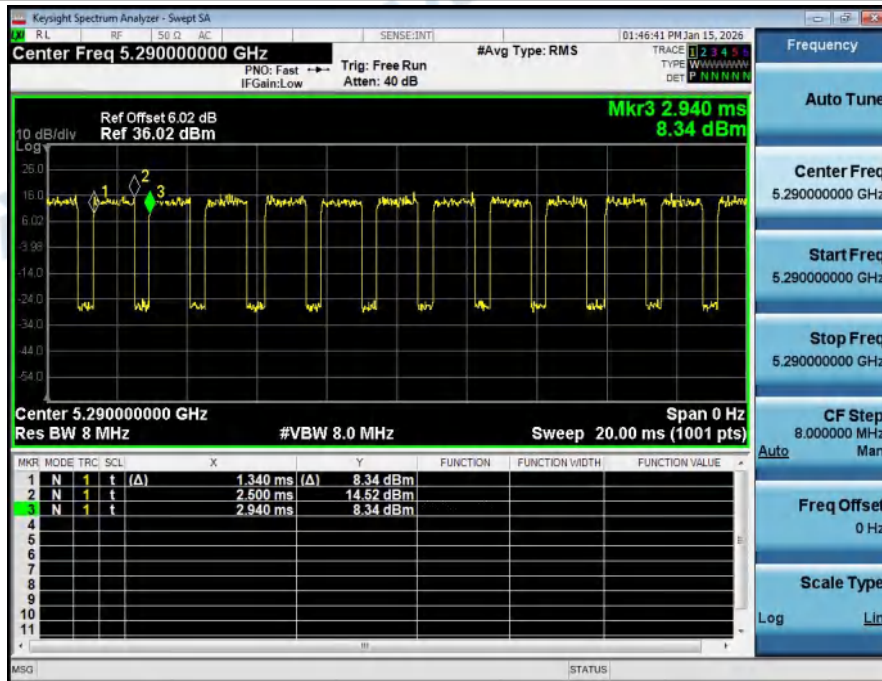
Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5270



Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5310



Duty_Cycle_NVNT_ANT1_802_11ac(VHT80)_5290



3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	13.25	2.65	15.90	24	Pass
NVNT	ANT1	802.11a	5300.00	14.12	2.27	16.39	24	Pass
NVNT	ANT1	802.11a	5320.00	13.44	2.41	15.85	24	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	14.91	0.38	15.29	24	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	15.22	0.36	15.58	24	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	15.34	0.38	15.72	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	15.04	0.36	15.40	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	15.27	0.36	15.63	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	15.49	0.36	15.85	24	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	15.10	0.80	15.90	24	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	15.48	0.71	16.19	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	15.10	0.74	15.84	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	15.62	0.71	16.33	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	14.33	1.40	15.73	24	Pass

4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	0.77	2.65	3.42	11	Pass
NVNT	ANT1	802.11a	5300.00	0.56	2.27	2.83	11	Pass
NVNT	ANT1	802.11a	5320.00	0.02	2.41	2.43	11	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	1.02	0.38	1.40	11	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	1.16	0.36	1.52	11	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	1.03	0.38	1.42	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	3.60	0.36	3.96	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	3.82	0.36	4.18	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	3.94	0.36	4.30	11	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	0.88	0.80	1.68	11	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	1.03	0.71	1.74	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	-6.03	0.74	-5.29	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	1.06	0.71	1.77	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	-2.71	1.40	-1.31	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5260



Power_Spectral_Density_NVNT_ANT1_802_11a_5300



Power_Spectral_Density_NVNT_ANT1_802_11a_5320



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5260



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5300



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5320



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5260



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5300



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5320



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5270



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5310



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5270



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5310



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5290



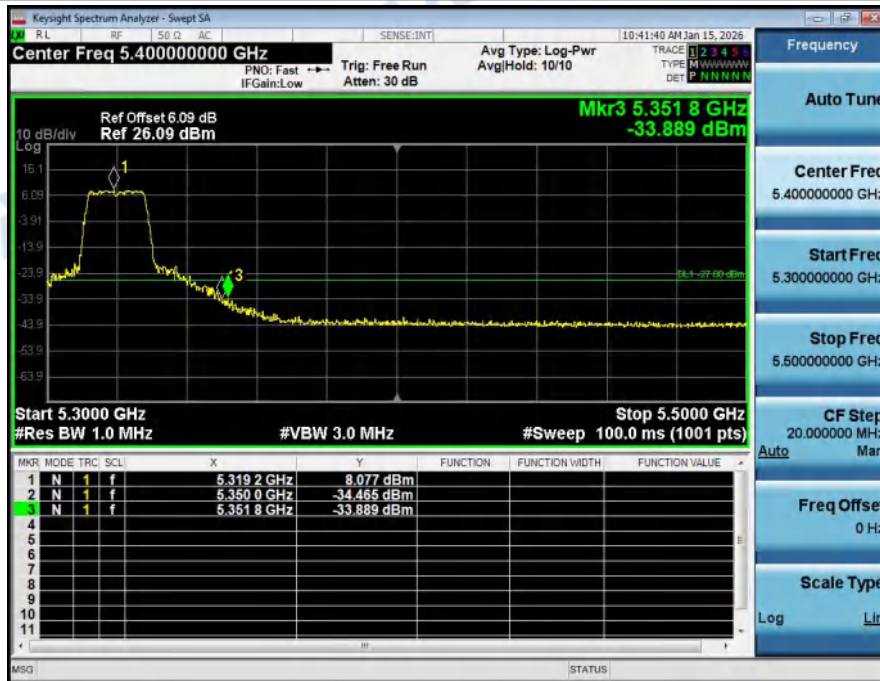
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	5074.20	-40.97	-27	Pass
NVNT	ANT1	802.11a	5320.00	5351.80	-33.89	-27	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	5115.92	-41.63	-27	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	5352.00	-28.93	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	5083.72	-41.64	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	5350.40	-33.41	-27	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	5128.80	-41.80	-27	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	5351.40	-27.25	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	5143.60	-42.47	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	5350.40	-29.22	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	5143.35	-40.84	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	5350.62	-29.77	-27	Pass

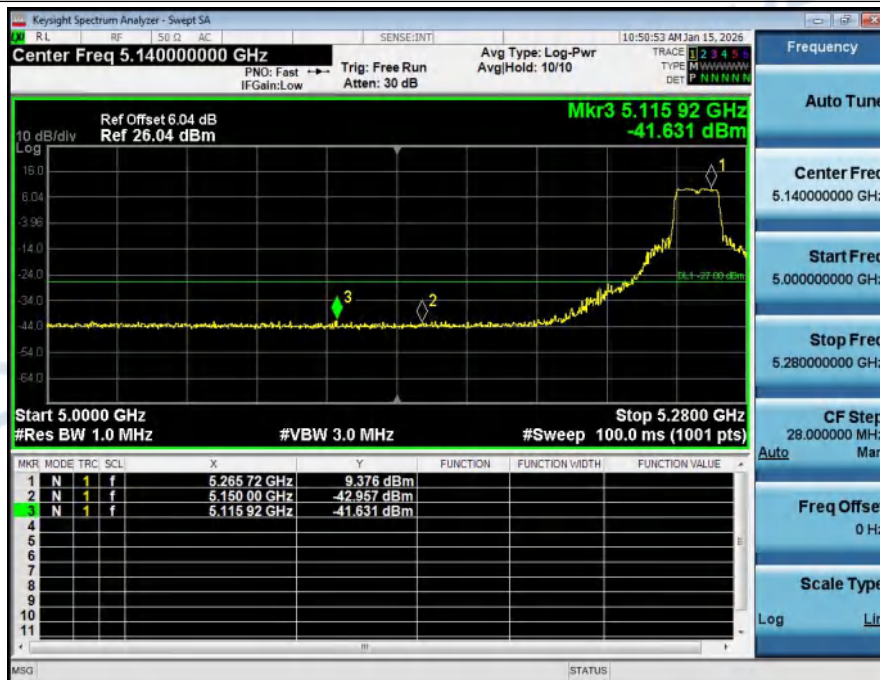
Bandedge_NVNT_ANT1_802_11a_5260



Bandedge_NVNT_ANT1_802_11a_5320



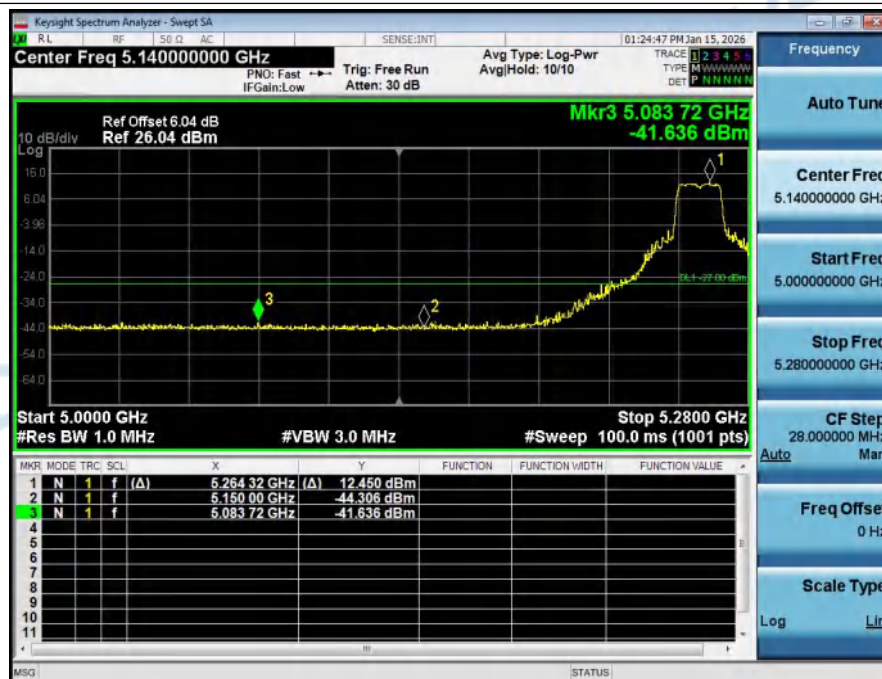
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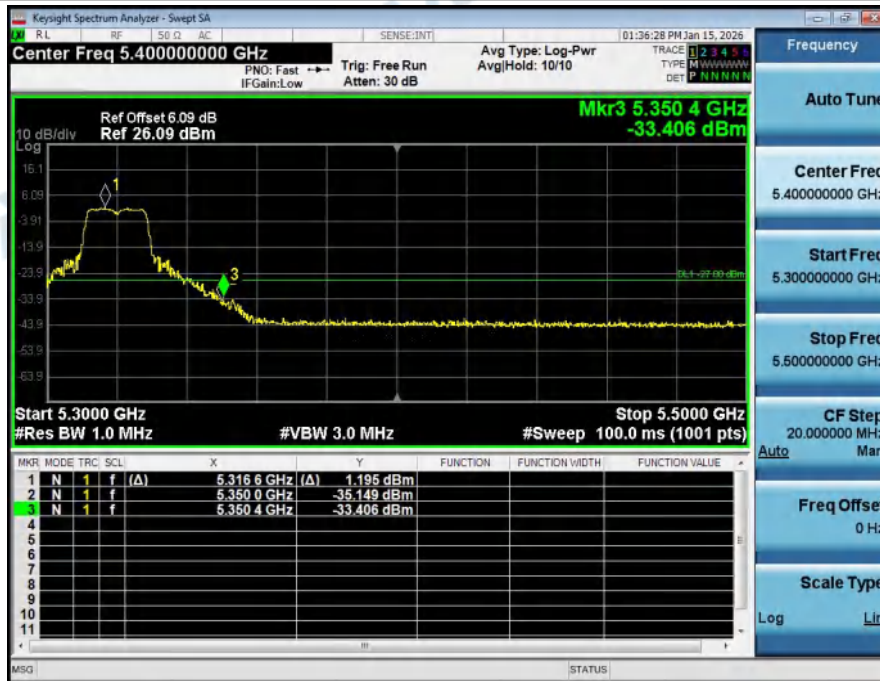
Bandedge_NVNT_ANT1_802_11n(HT20)_5320



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5260



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5320



Bandedge_NVNT_ANT1_802_11n(HT40)_5270



Bandedge_NVNT_ANT1_802_11n(HT40)_5310



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5270



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5310



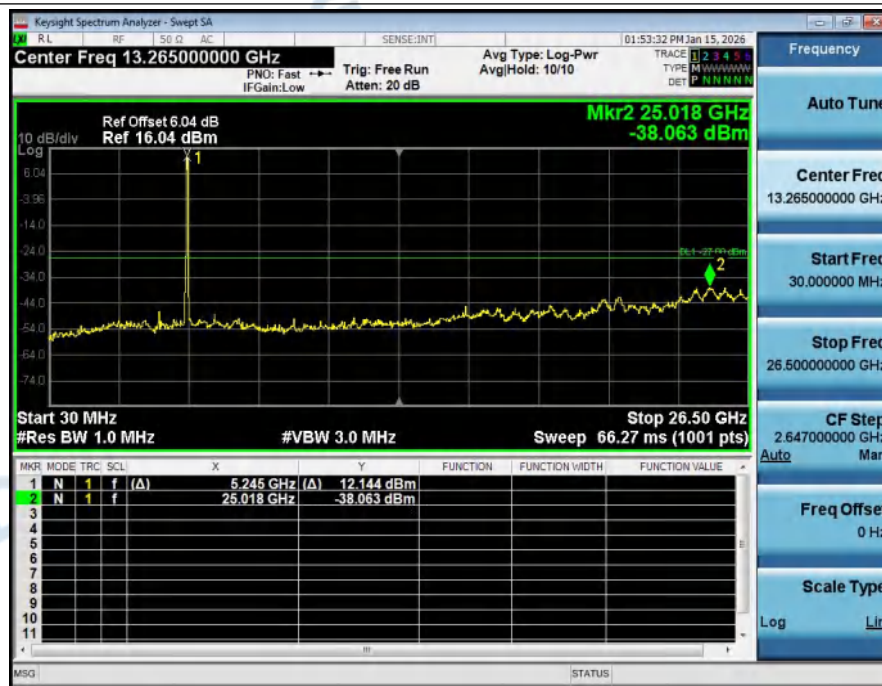
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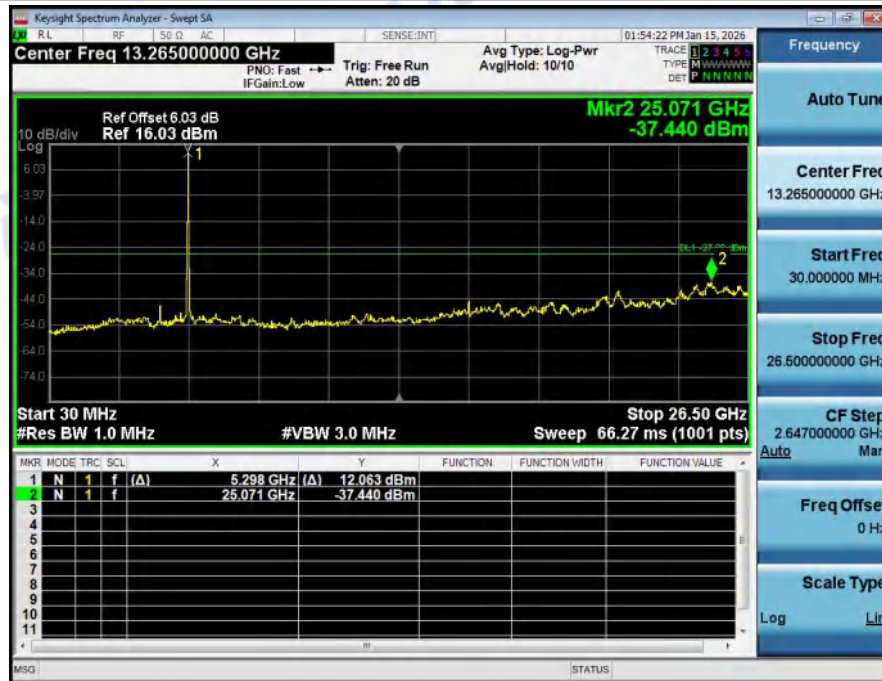
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	25017.68	-38.06	-27	Pass
NVNT	ANT1	802.11a	5300.00	25070.62	-37.44	-27	Pass
NVNT	ANT1	802.11a	5320.00	24964.74	-37.29	-27	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	25070.62	-37.81	-27	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	25017.68	-38.49	-27	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	25150.03	-38.43	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	24541.22	-37.88	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	24991.21	-36.45	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	25017.68	-35.73	-27	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	25070.62	-37.81	-27	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	24541.22	-38.41	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	25044.15	-37.50	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	25017.68	-37.48	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	5429.88	-33.23	-27	Pass

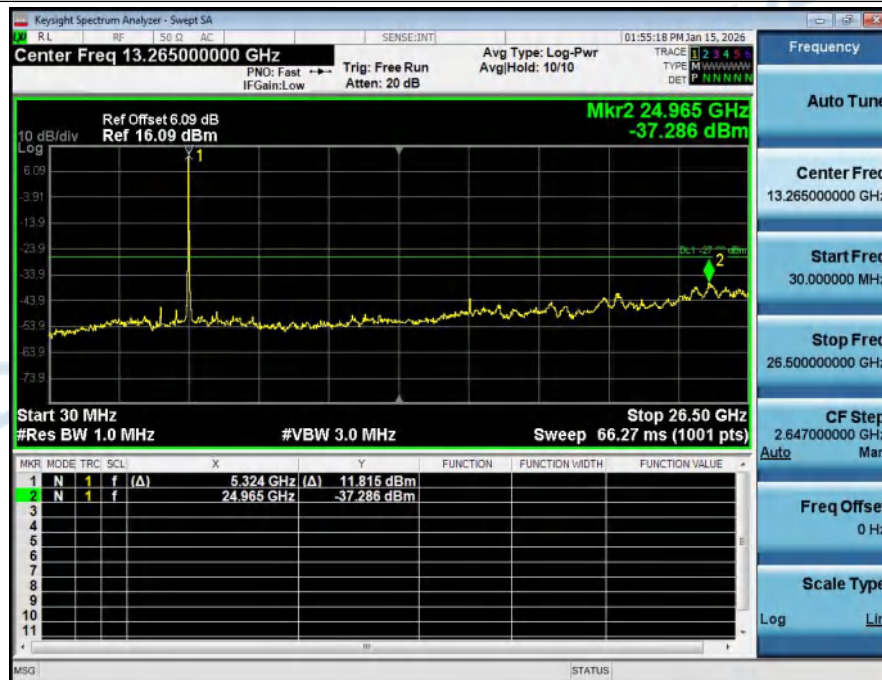
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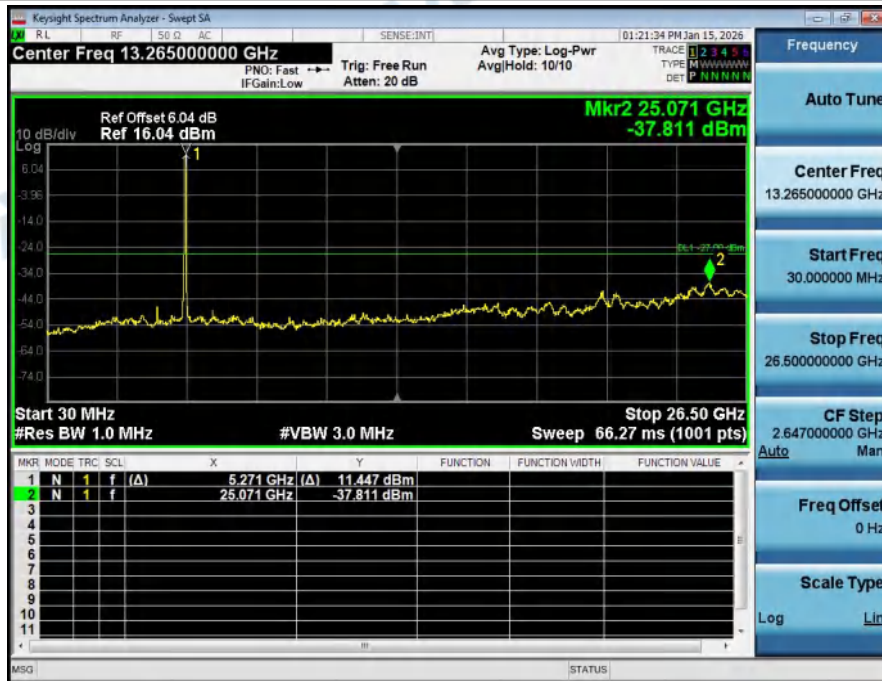
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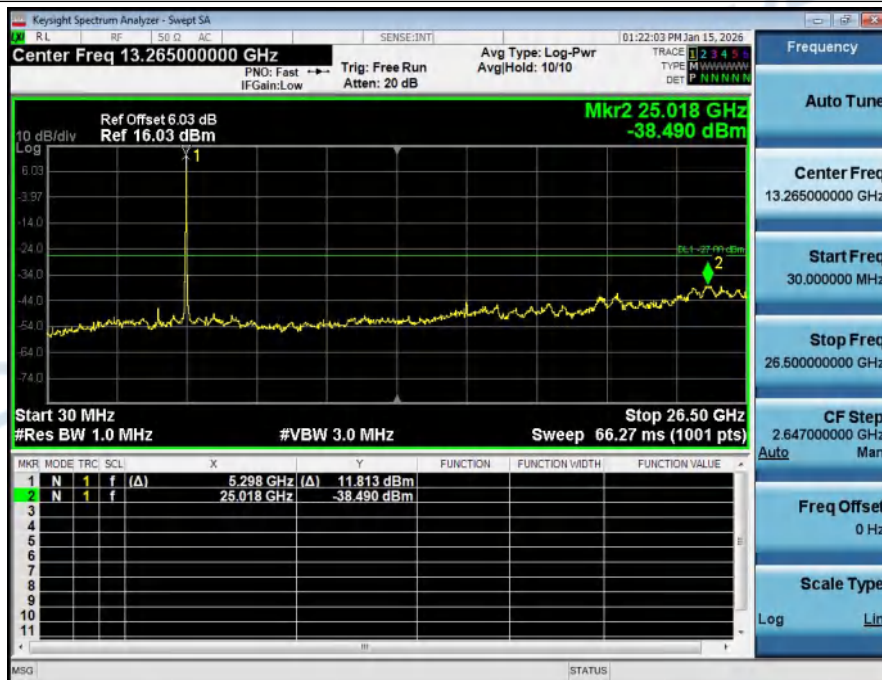
Spurious_Emission_NVNT_ANT1_802_11a_5320



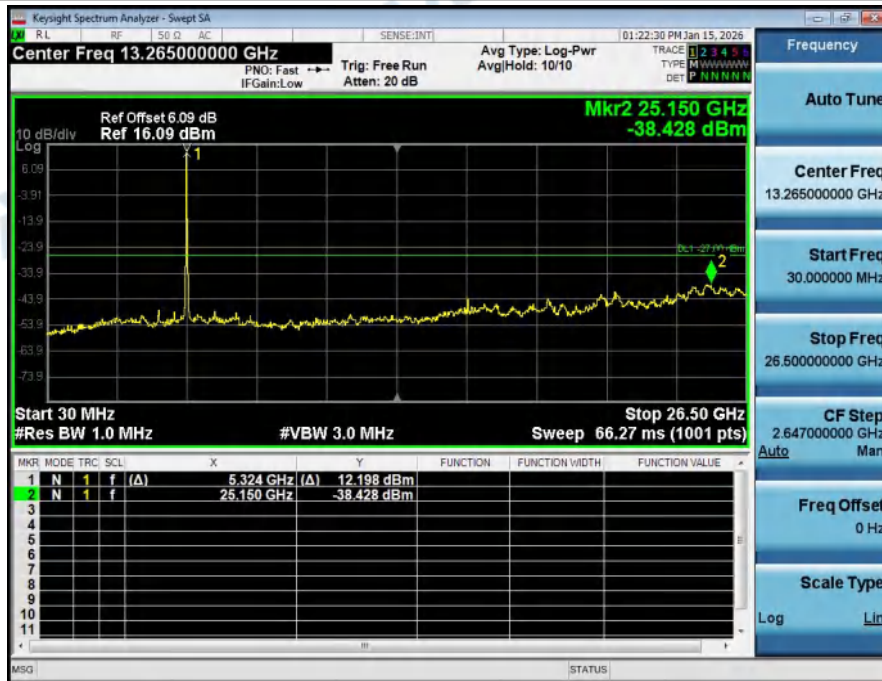
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5260



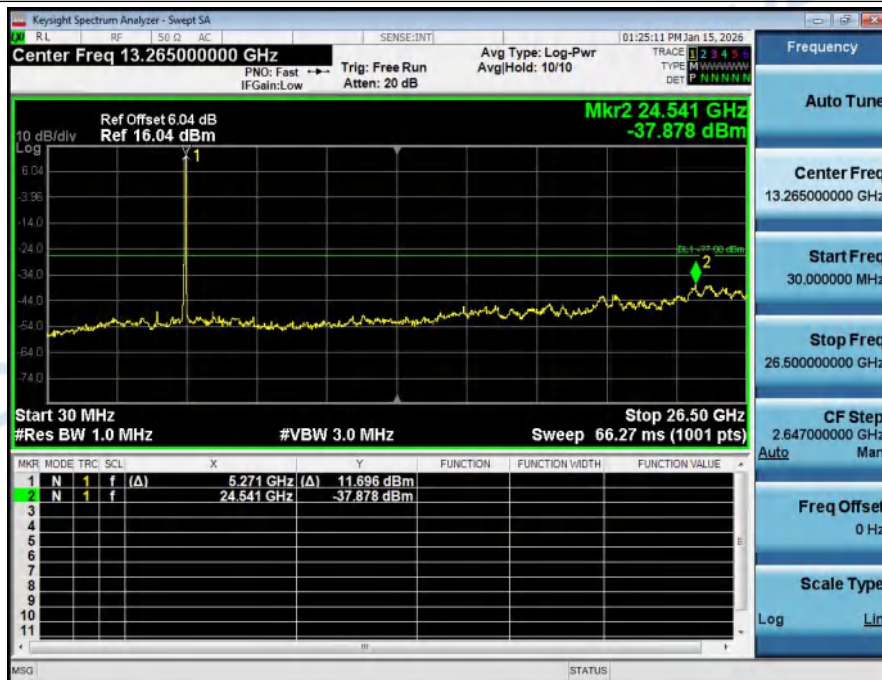
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5300



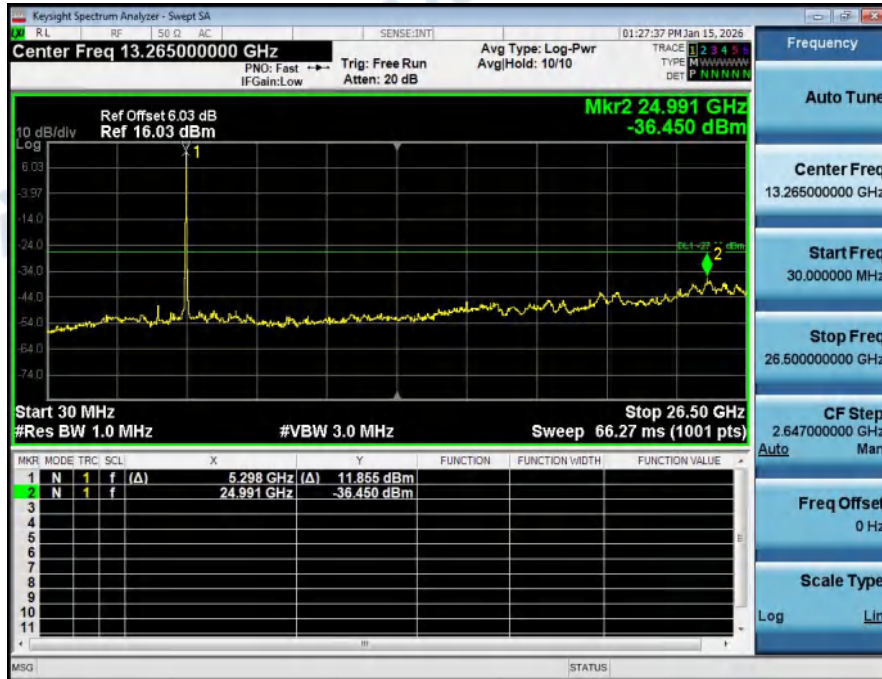
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5320



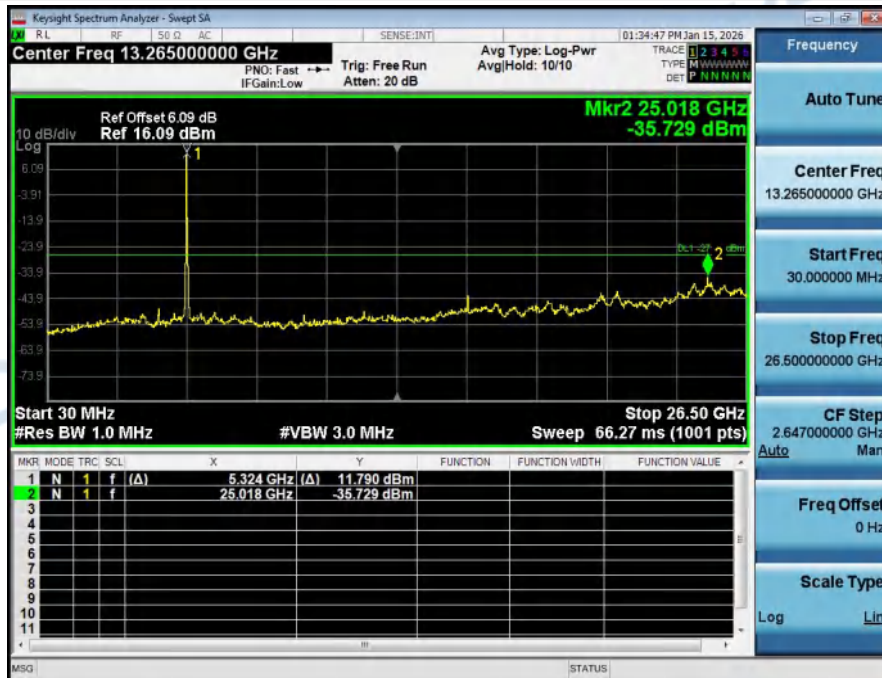
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5260



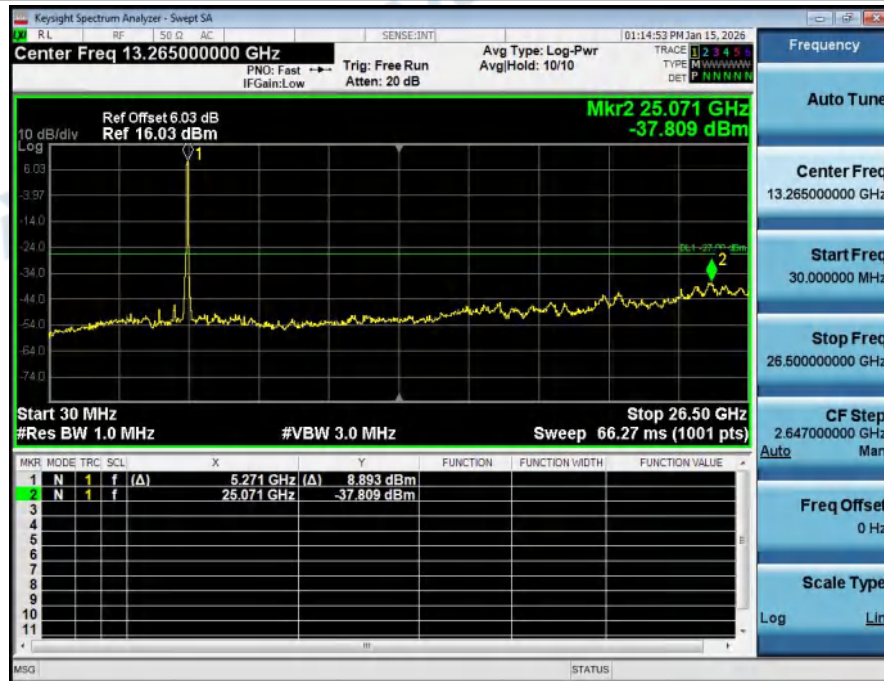
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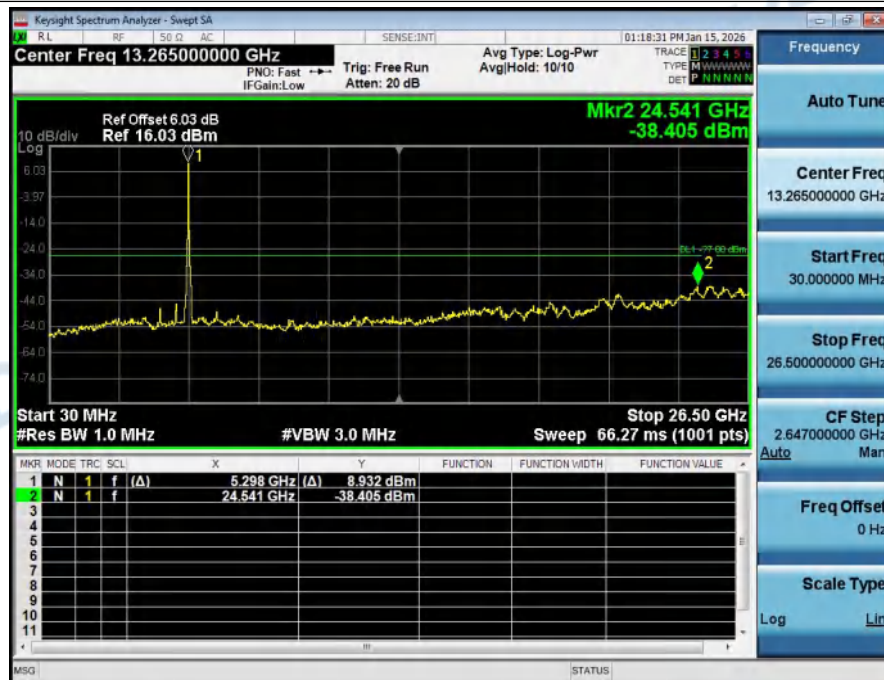
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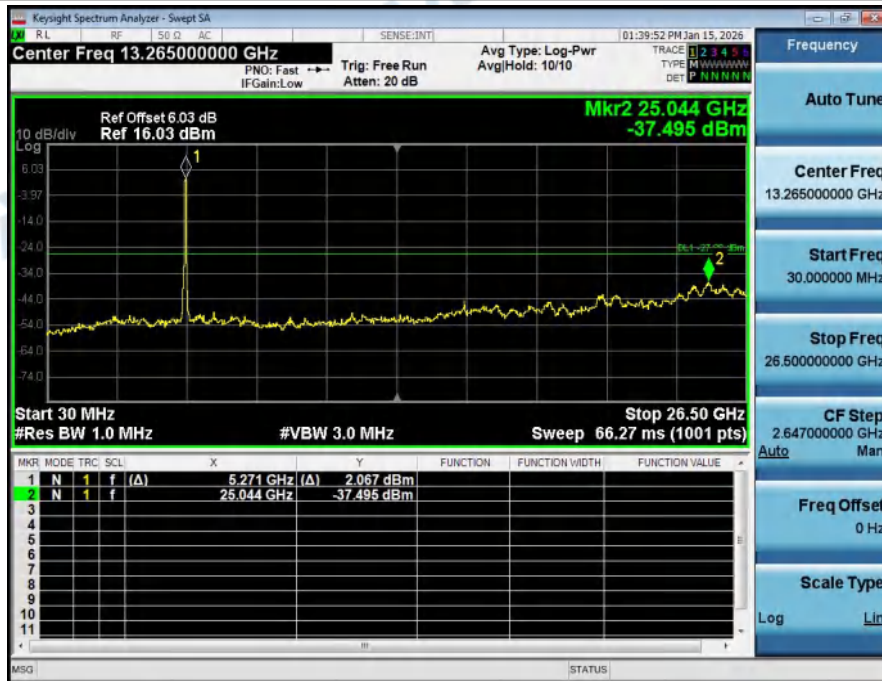
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5270



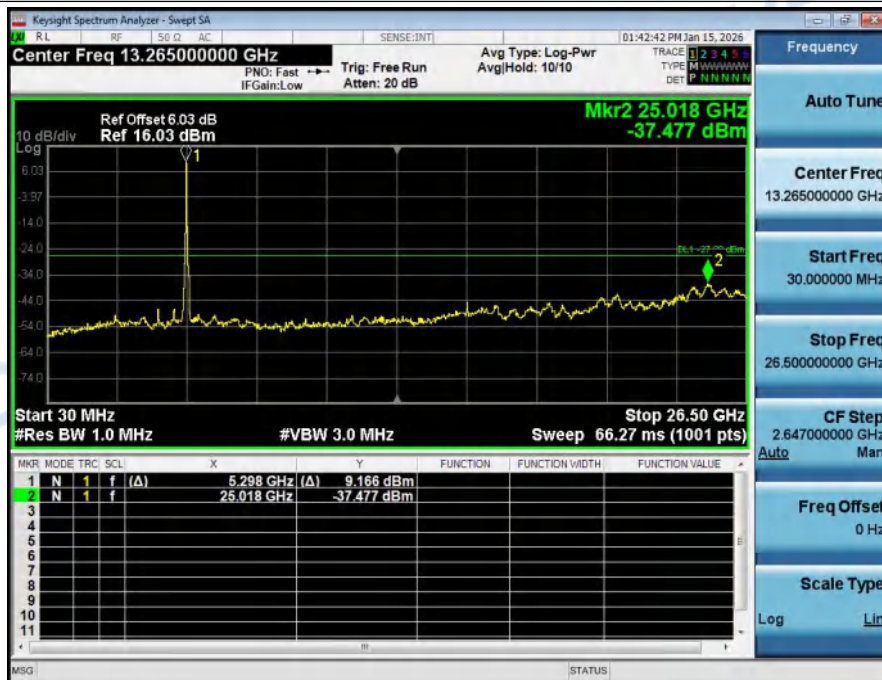
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5310



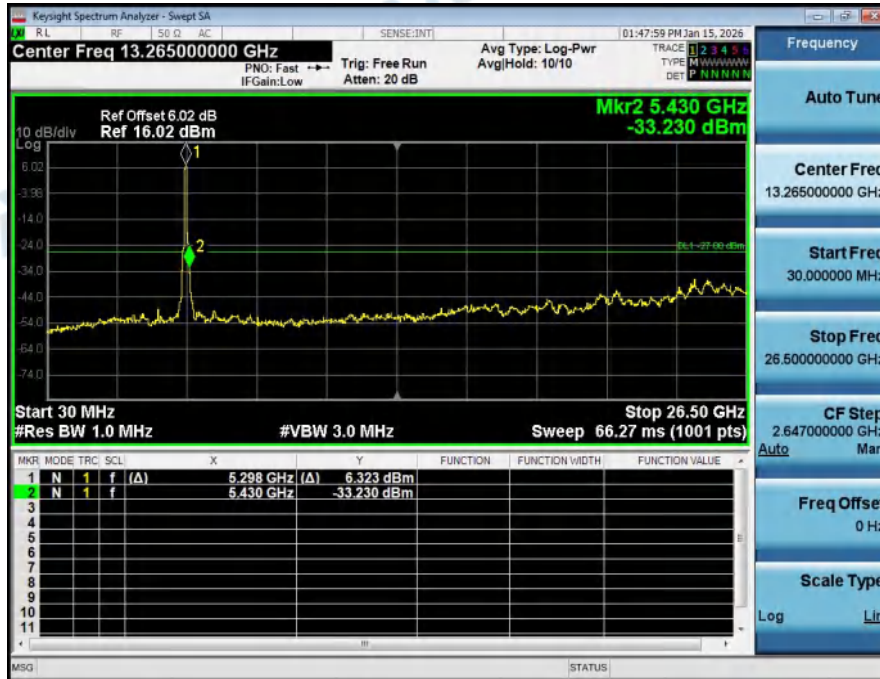
Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5270



Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5310



Spurious_Emission_NVNT_ANT1_802_11ac(VHT80)_5290



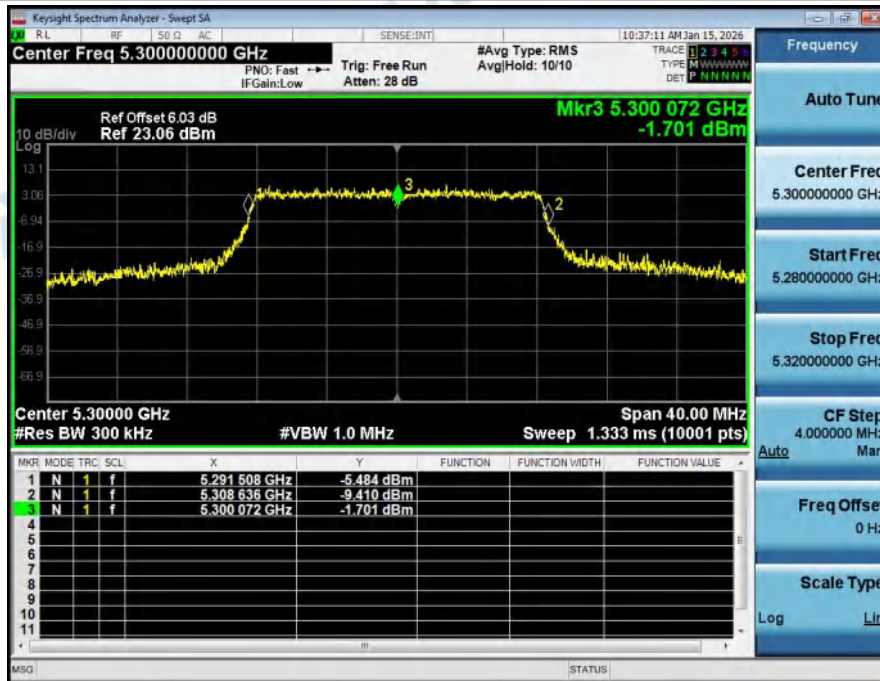
7. Frequency Stability

Condition	Antenna	Modulation	Frequency(MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5260.00	5260.036	5251.484	5268.588	5250~5350	Pass
NVNT	ANT1	802.11a	5300.00	5300.072	5291.508	5308.636	5250~5350	Pass
NVNT	ANT1	802.11a	5320.00	5320.052	5311.488	5328.616	5250~5350	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	5260.042	5250.896	5269.188	5250~5350	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	5300.052	5290.952	5309.152	5250~5350	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	5320.078	5310.932	5329.224	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	5260.052	5250.904	5269.200	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	5300.070	5290.888	5309.252	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	5320.090	5310.896	5329.284	5250~5350	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	5270.096	5251.744	5288.448	5250~5350	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	5310.120	5291.768	5328.472	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	5270.044	5251.696	5288.392	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	5310.096	5291.704	5328.488	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	5290.090	5252.032	5328.148	5250~5350	Pass

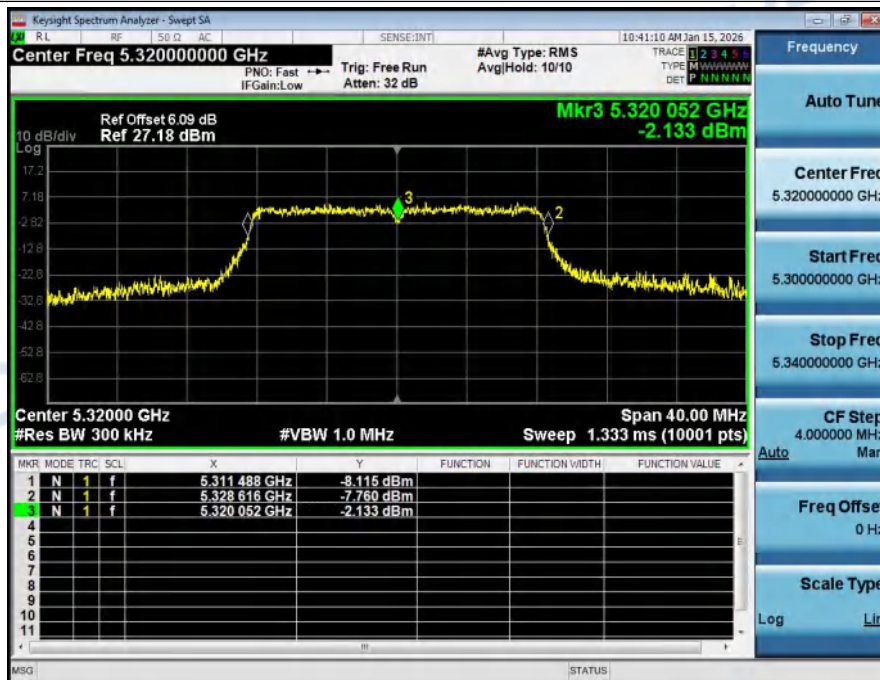
Frequency_Stability_NVNT_ANT1_802_11a_5260



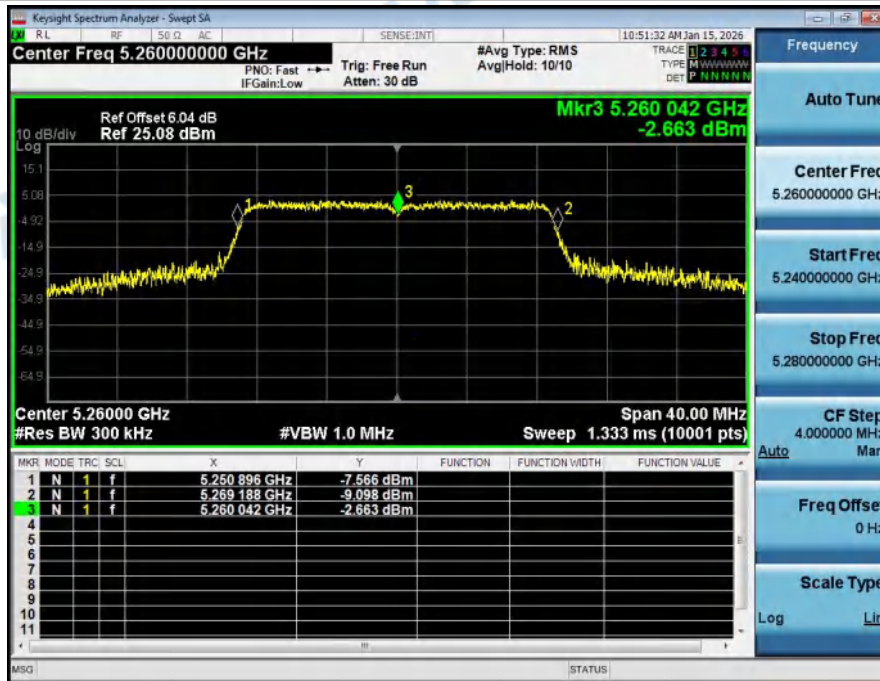
Frequency_Stability_NVNT_ANT1_802_11a_5300



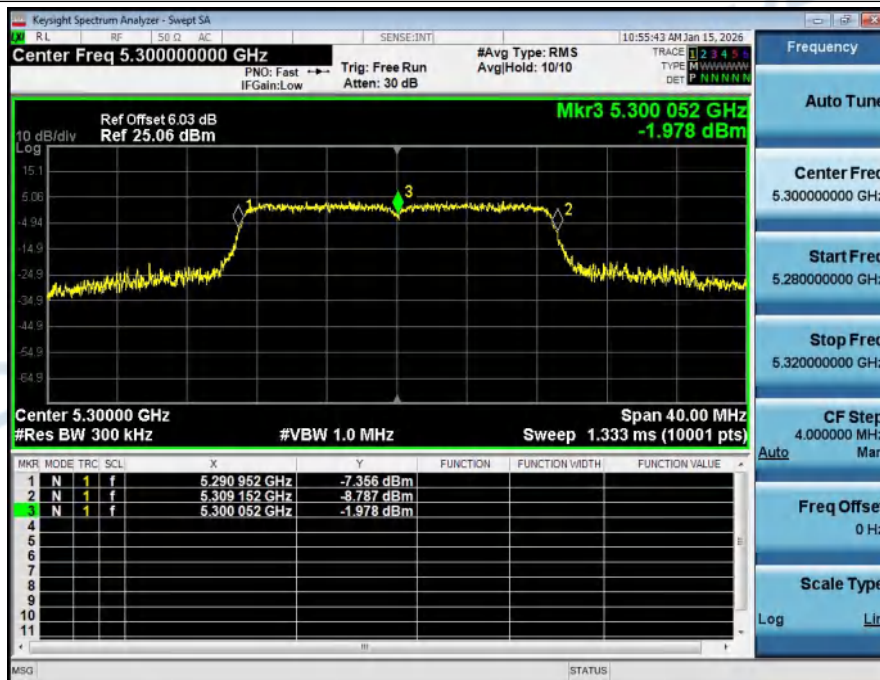
Frequency_Stability_NVNT_ANT1_802_11a_5320



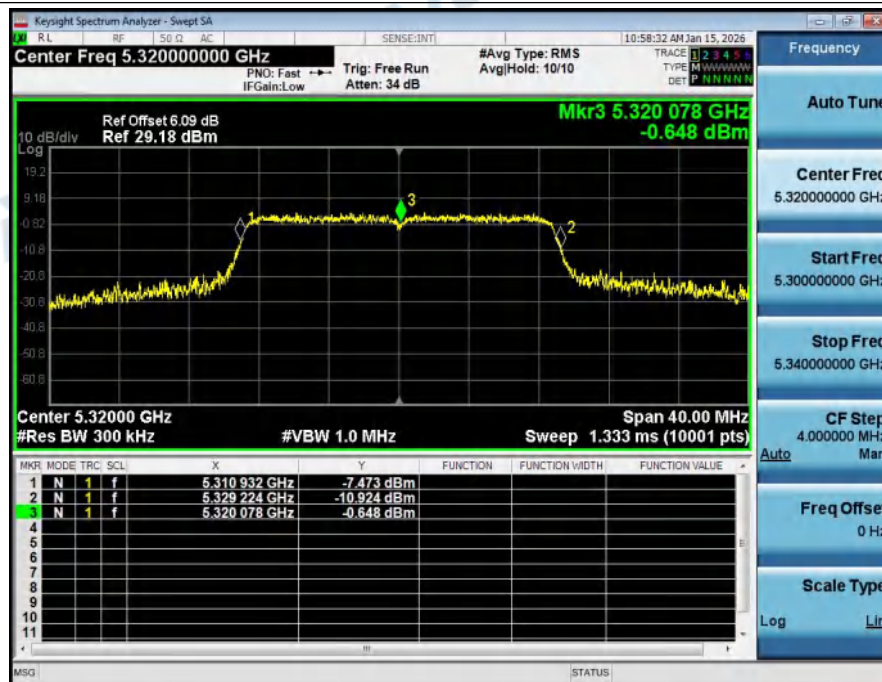
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5260



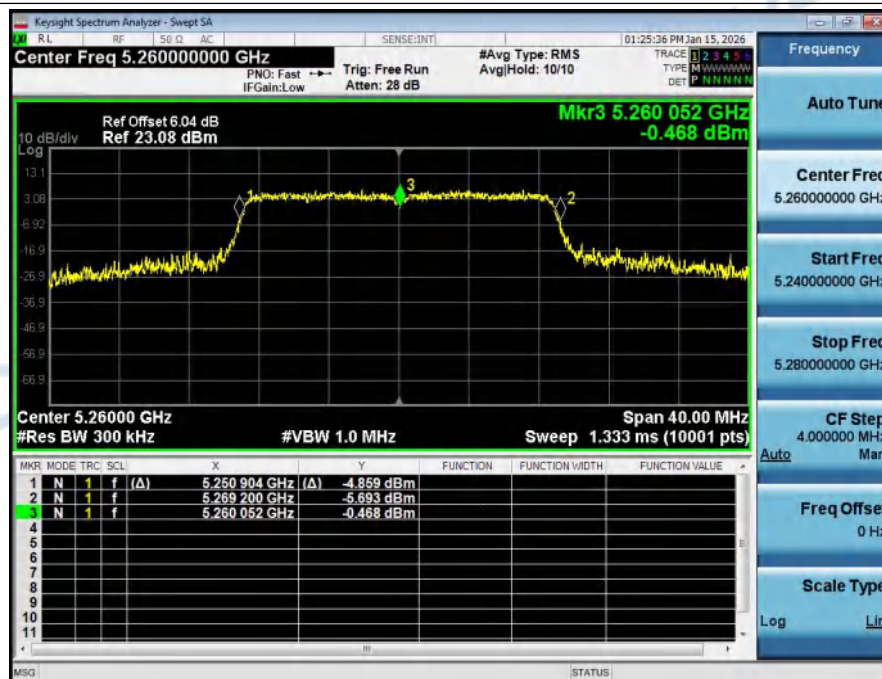
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5300



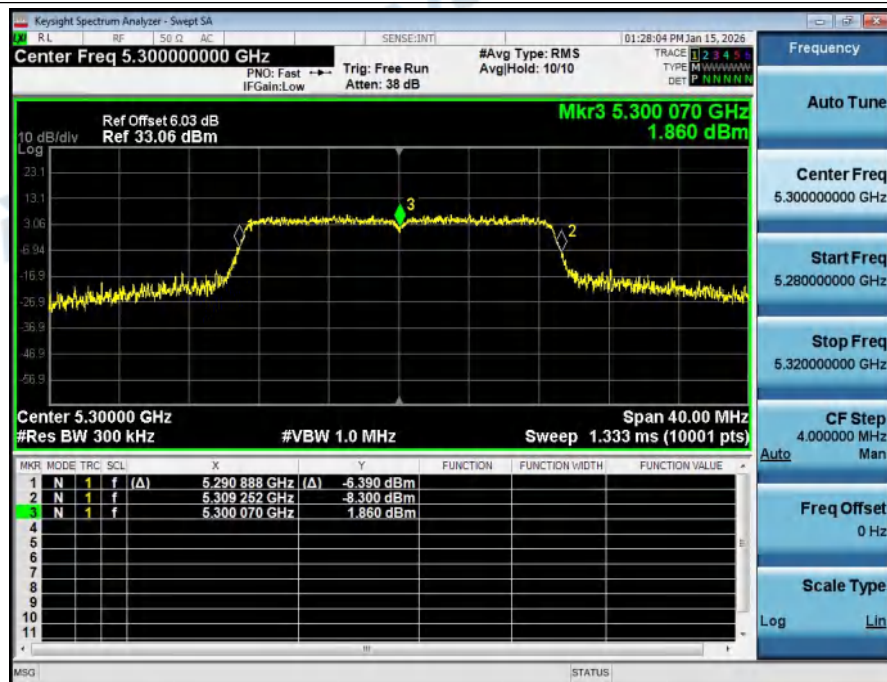
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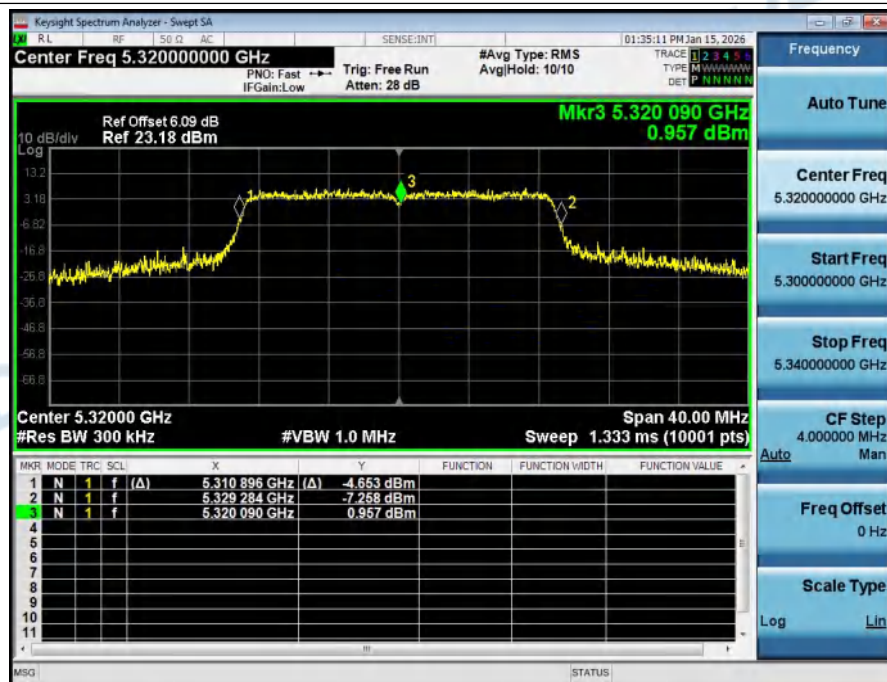
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5260



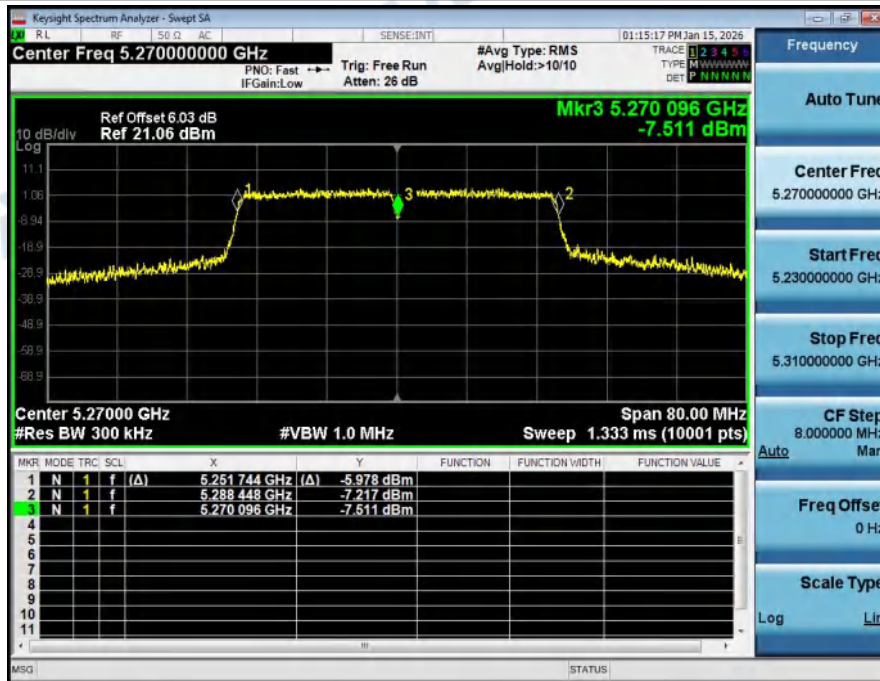
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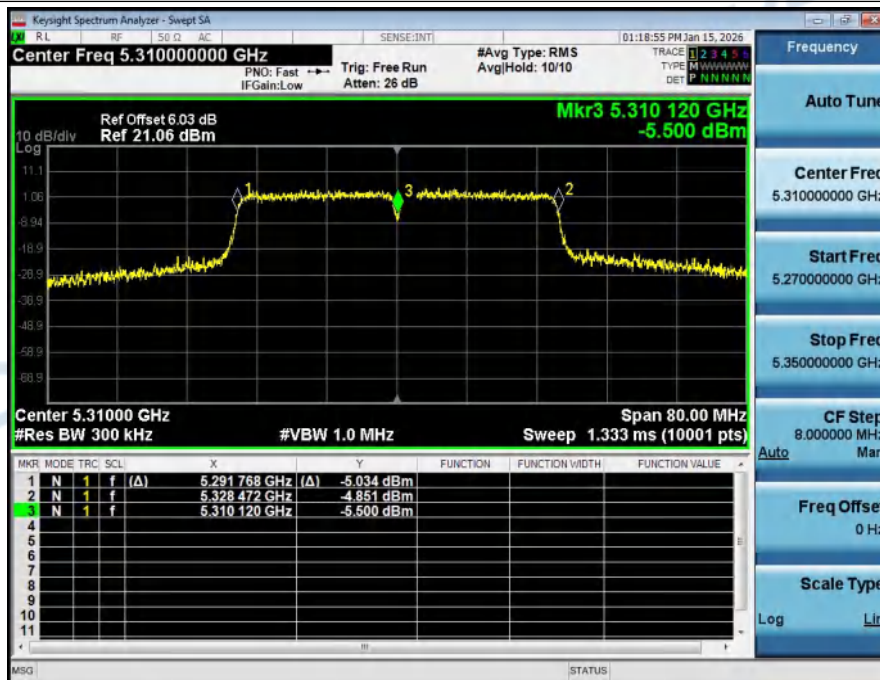
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5320



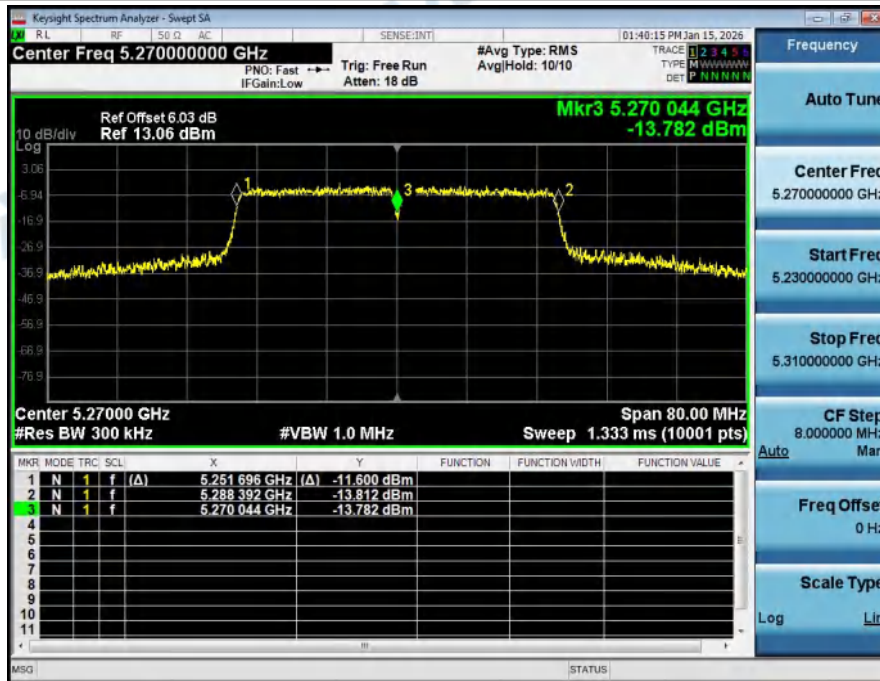
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5270



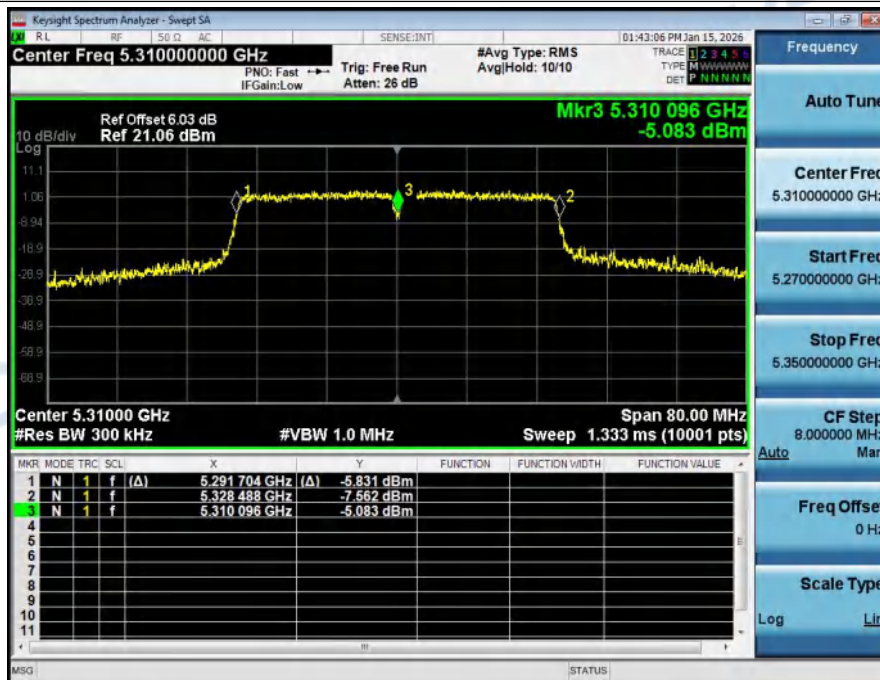
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5310



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5270



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5310



Frequency_Stability_NVNT_ANT1_802_11ac(VHT80)_5290

