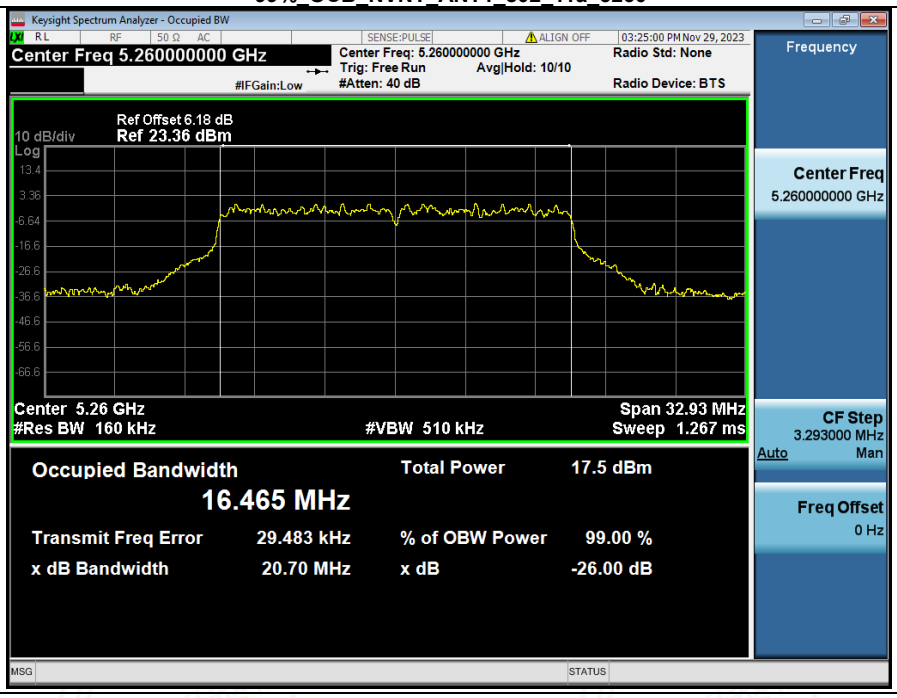
Appendix

UNII-2A Wi-Fi 5G Test Dat**5GWIFI**

1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5260.00	21.62	16.47
NVNT	ANT1	802.11a	5300.00	21.68	16.45
NVNT	ANT1	802.11a	5320.00	21.59	16.45
NVNT	ANT1	802.11n(HT20)	5260.00	21.65	17.74
NVNT	ANT1	802.11n(HT20)	5300.00	21.90	17.73
NVNT	ANT1	802.11n(HT20)	5320.00	22.06	17.71
NVNT	ANT1	802.11ac(VHT20)	5260.00	21.55	17.72
NVNT	ANT1	802.11ac(VHT20)	5300.00	21.80	17.74
NVNT	ANT1	802.11ac(VHT20)	5320.00	21.54	17.74

99%_OCB_NVNT_ANT1_802_11a_5260



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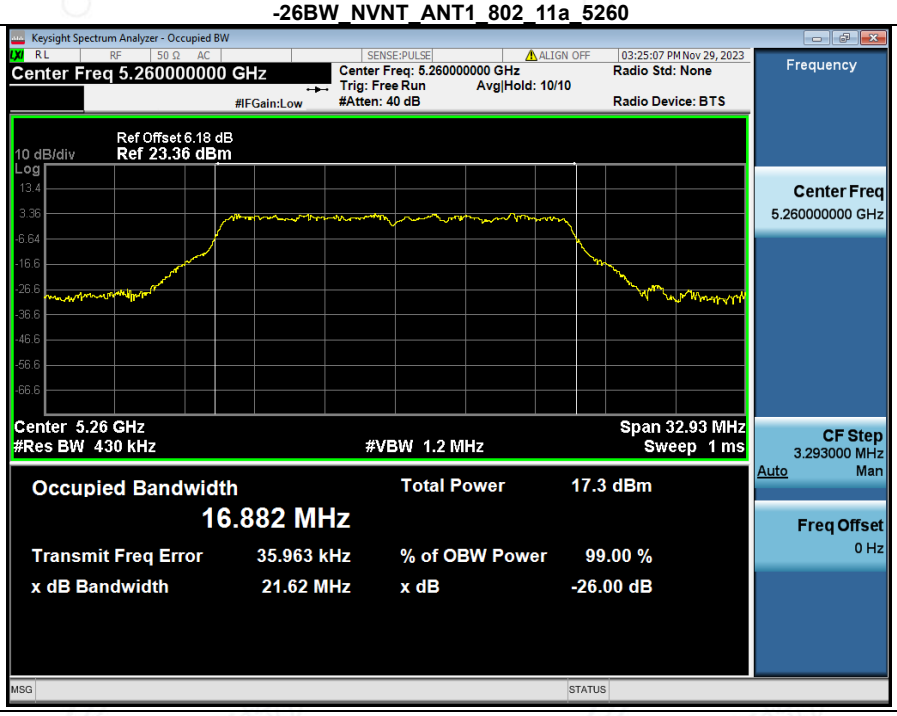

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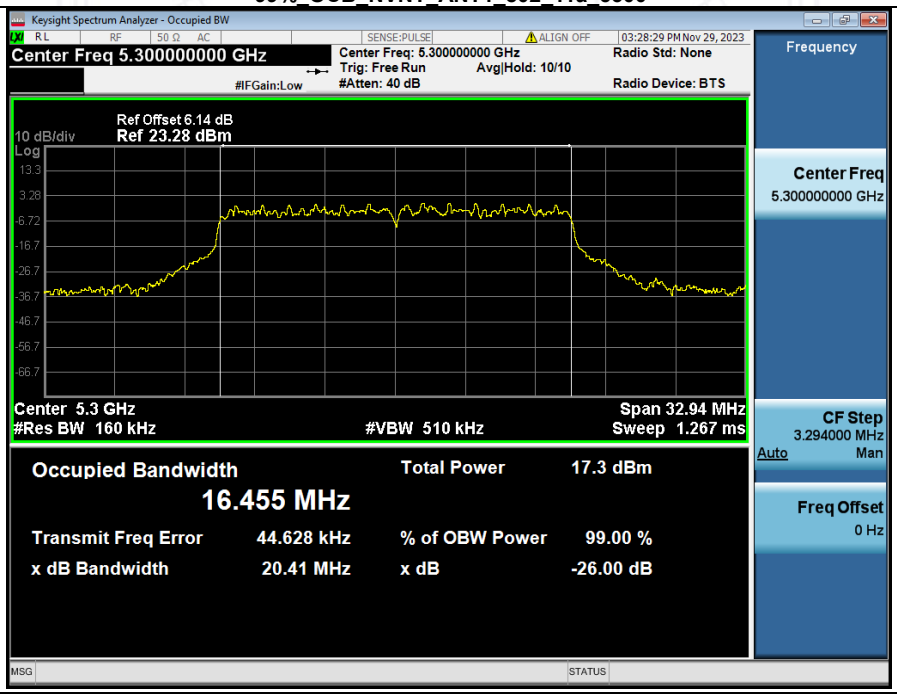

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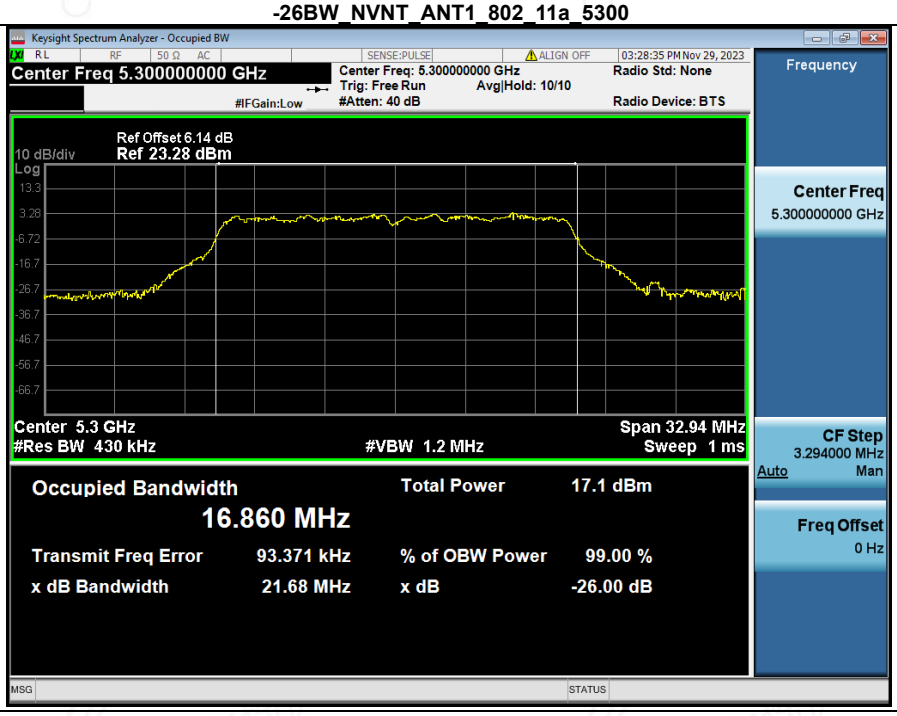

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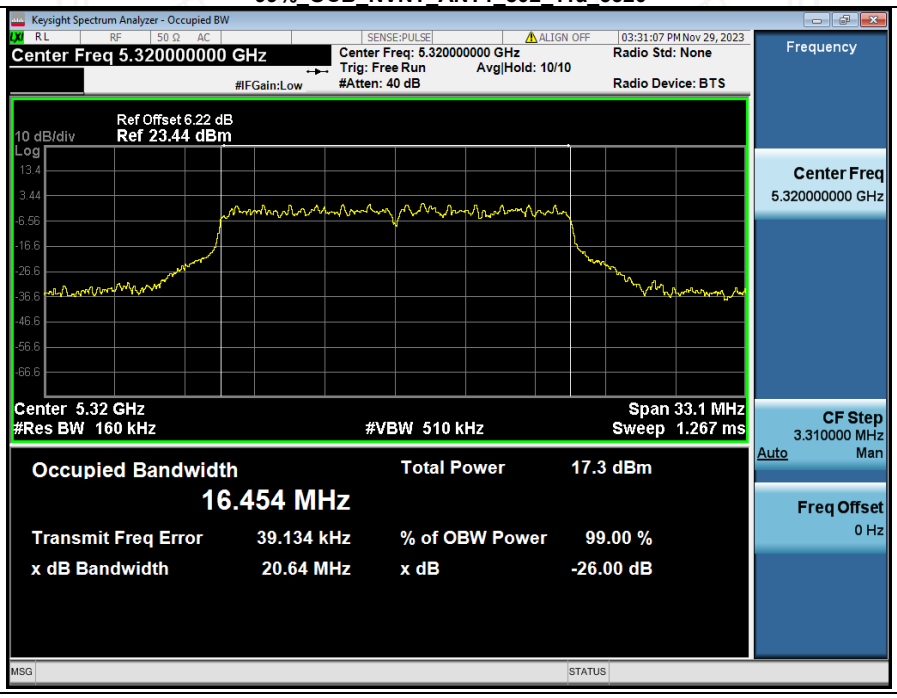

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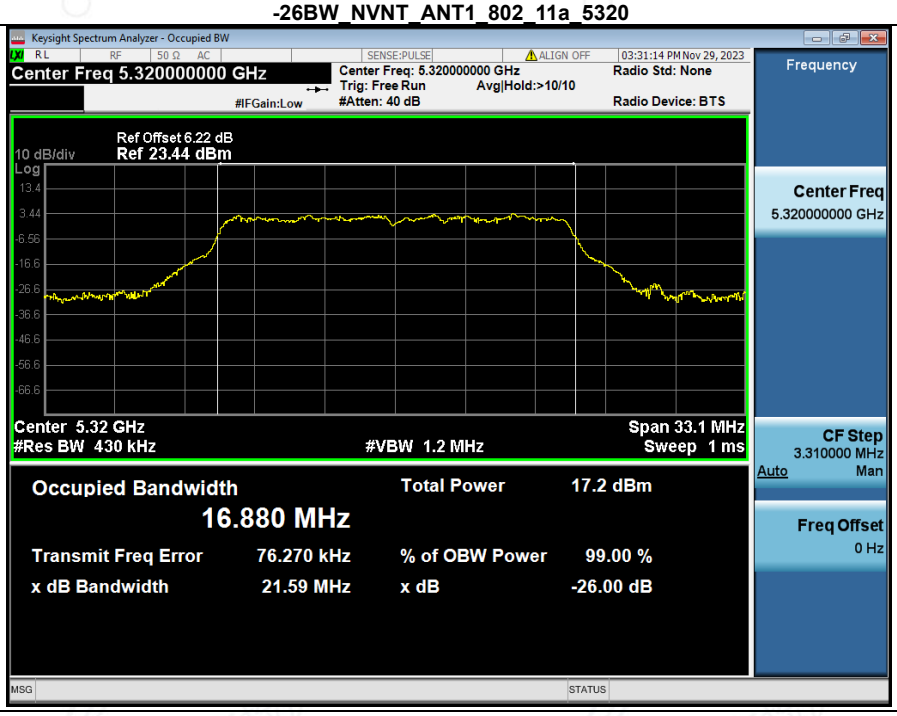
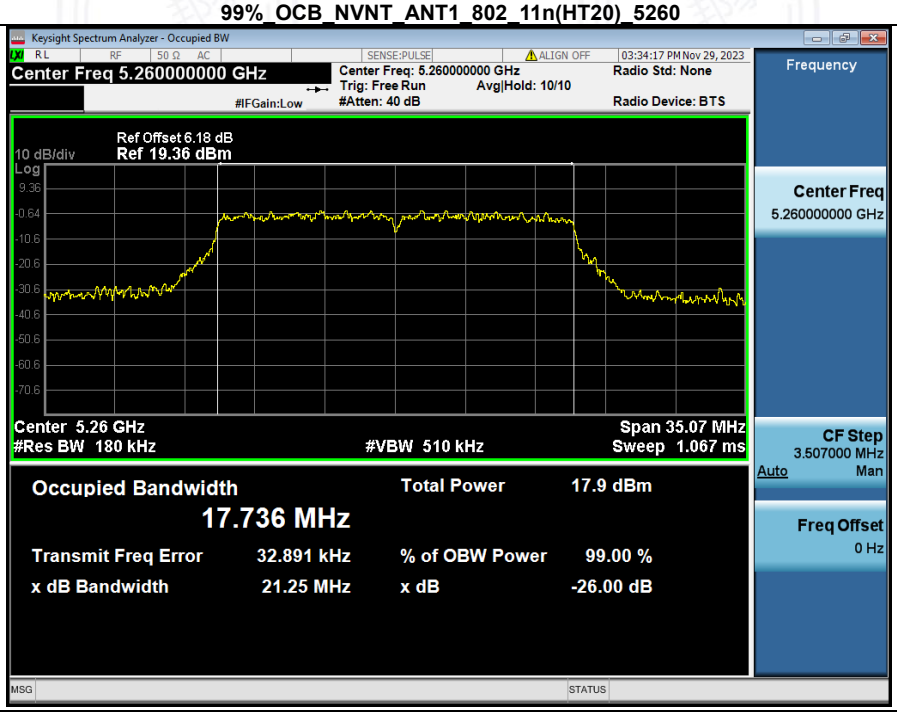


99%_OCB_NVNT_ANT1_802_11n(HT20)_5260



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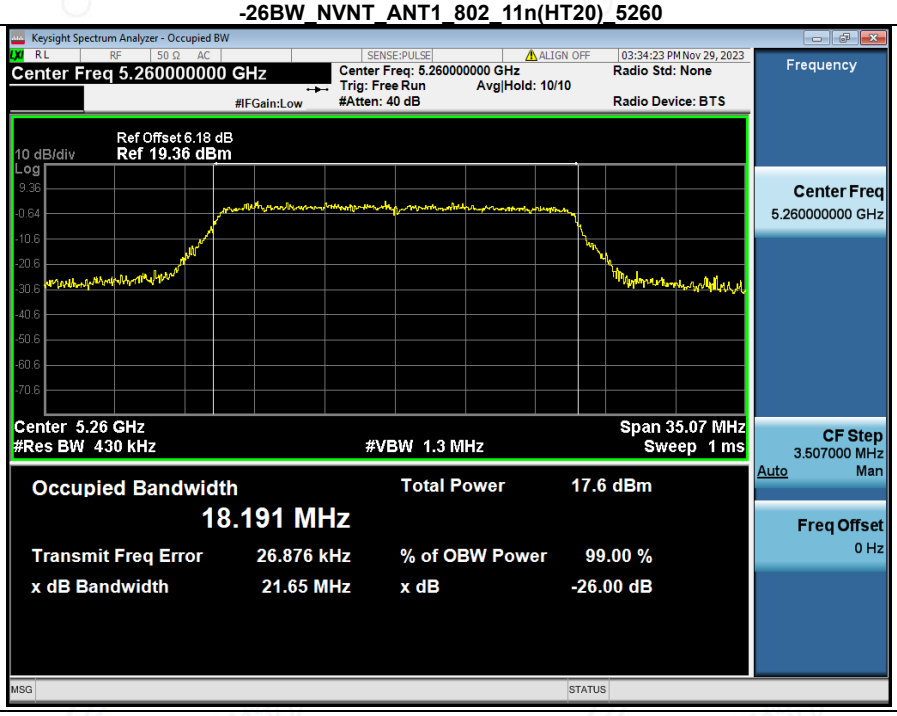

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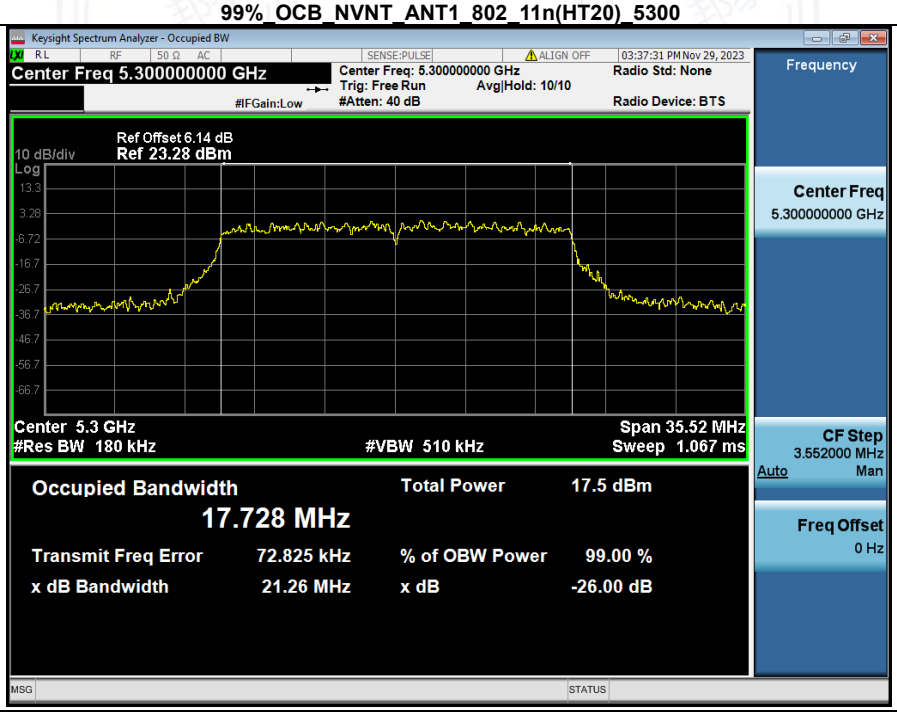

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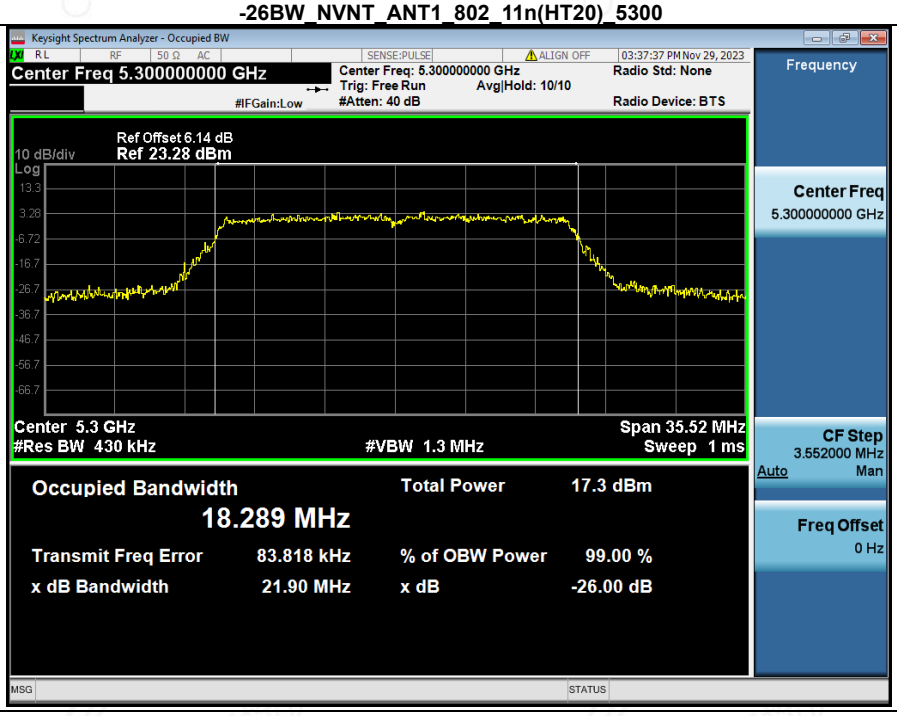

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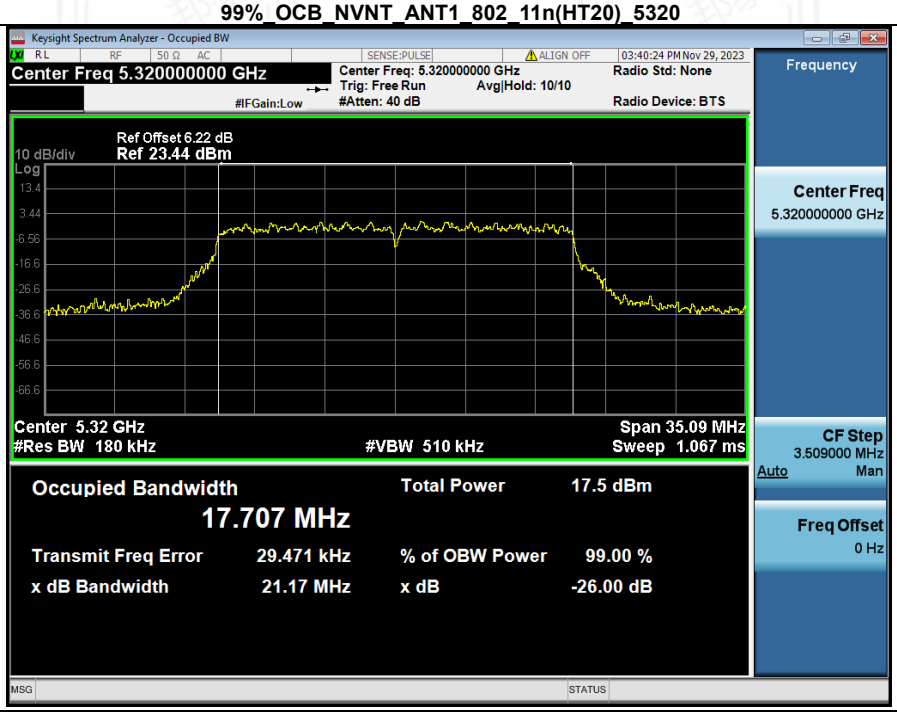

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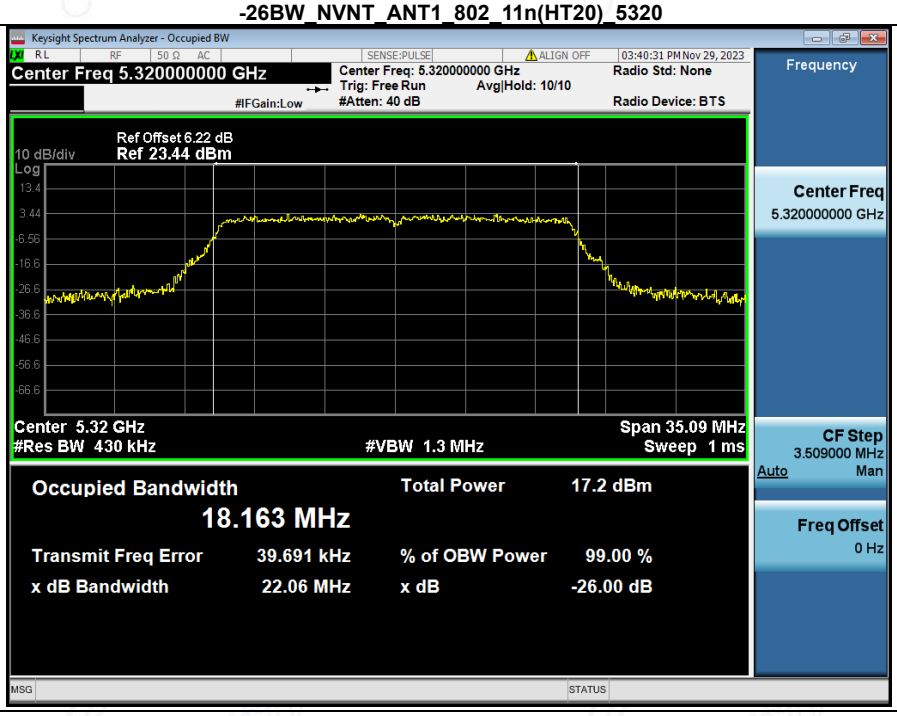
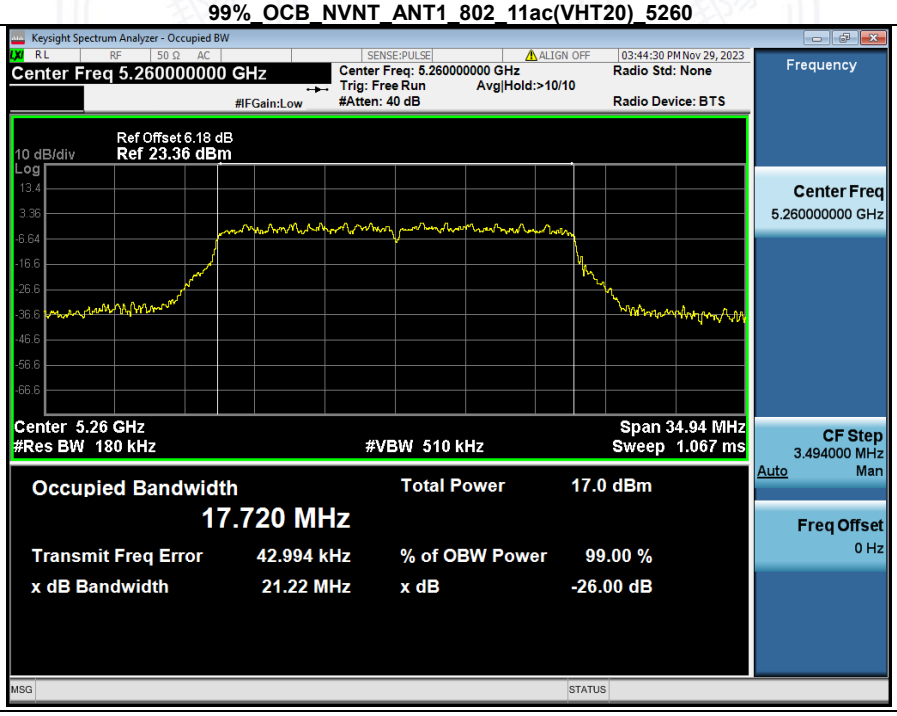


99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5260



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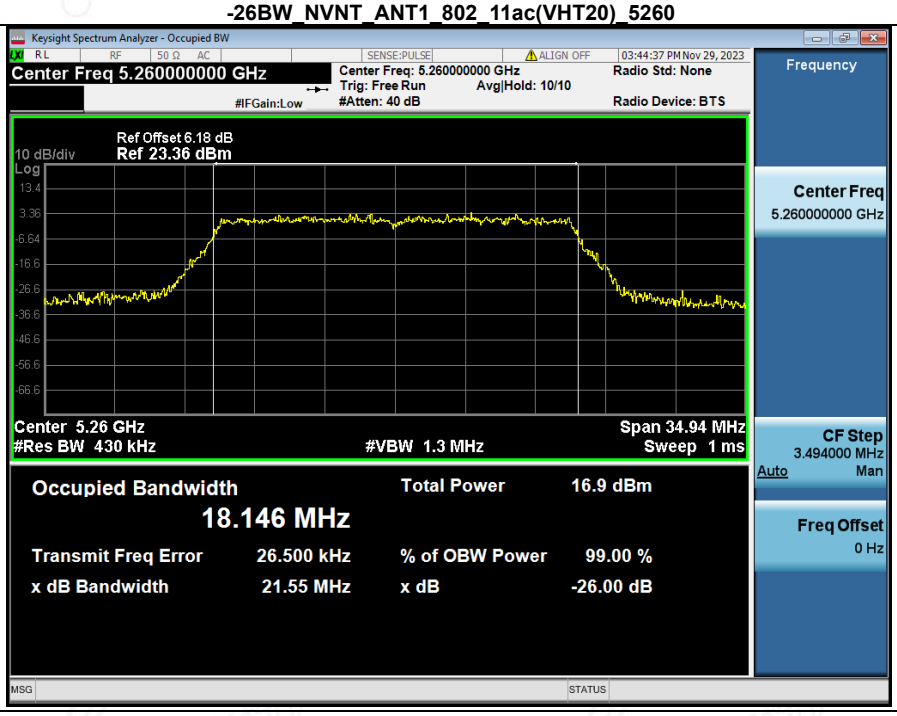

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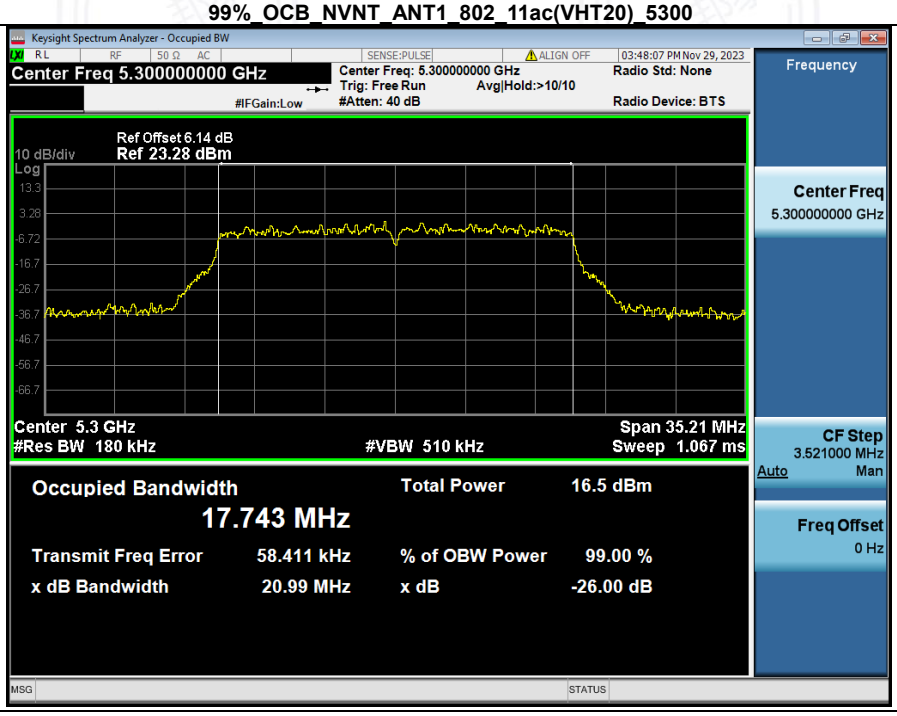

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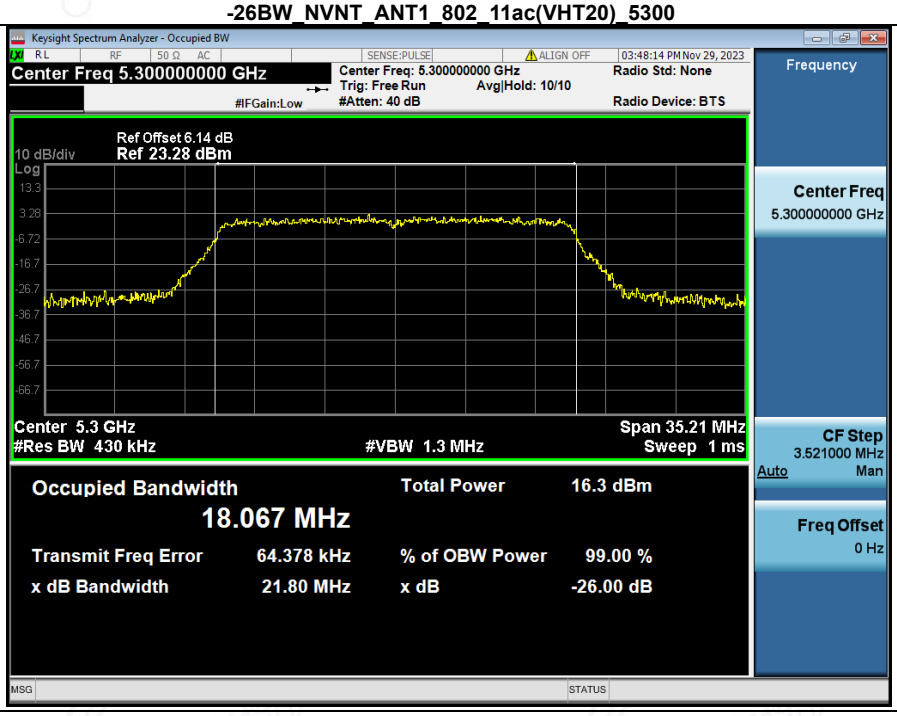

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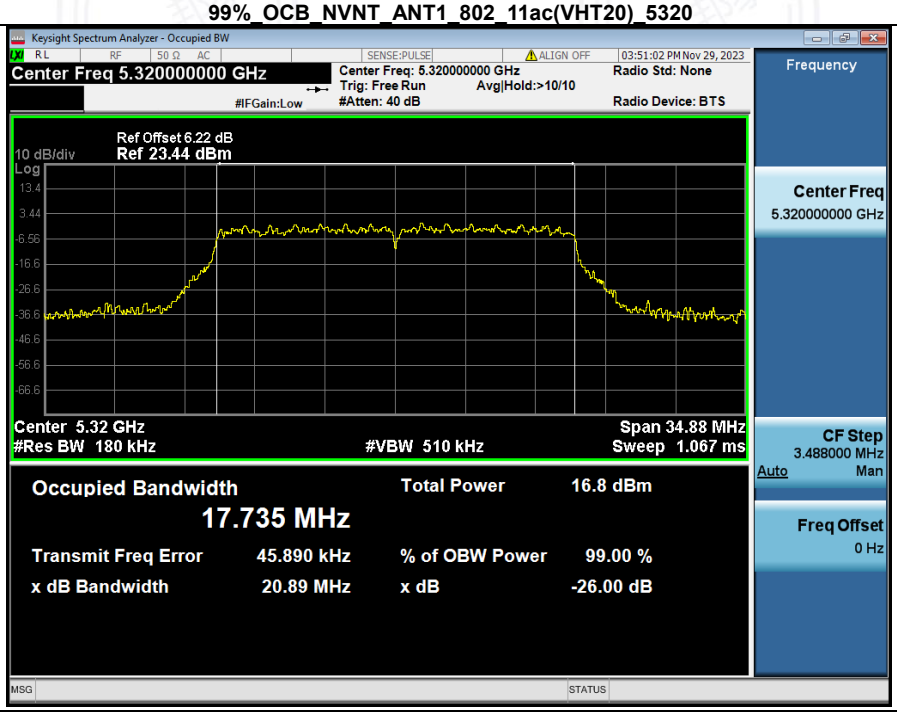

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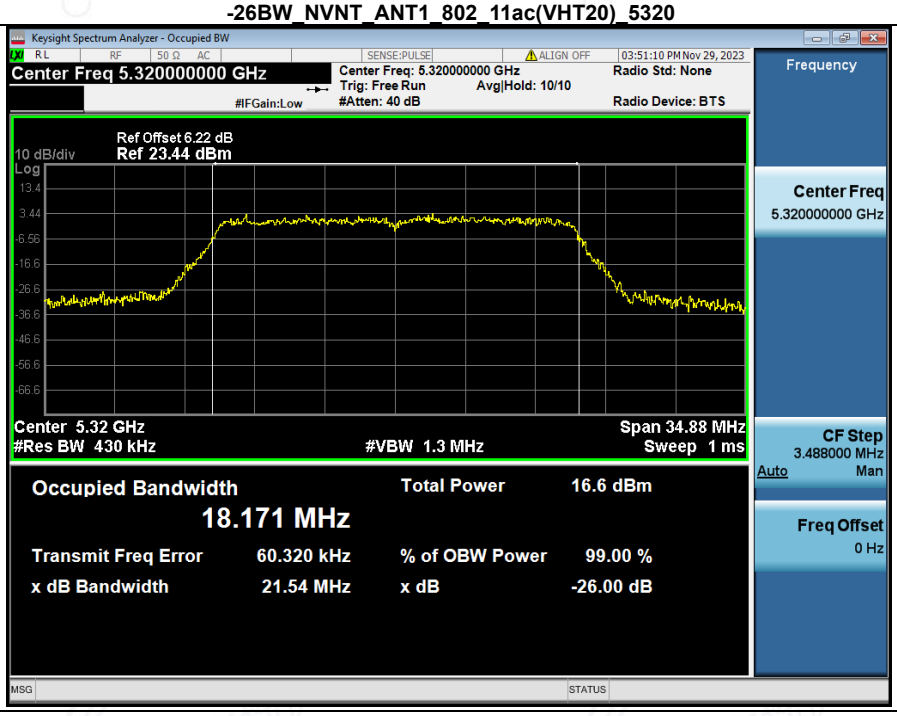
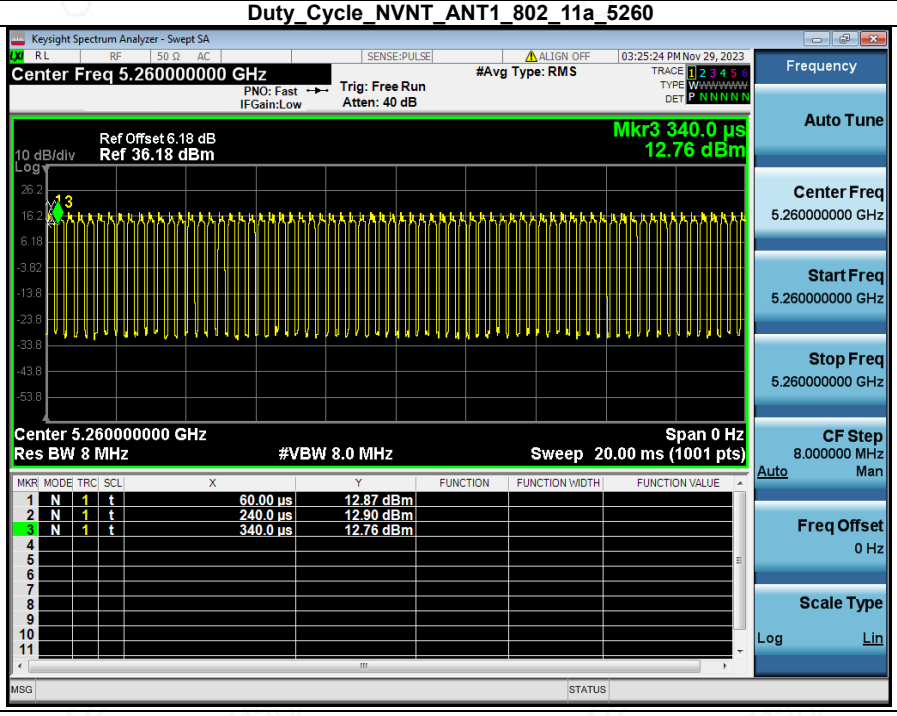


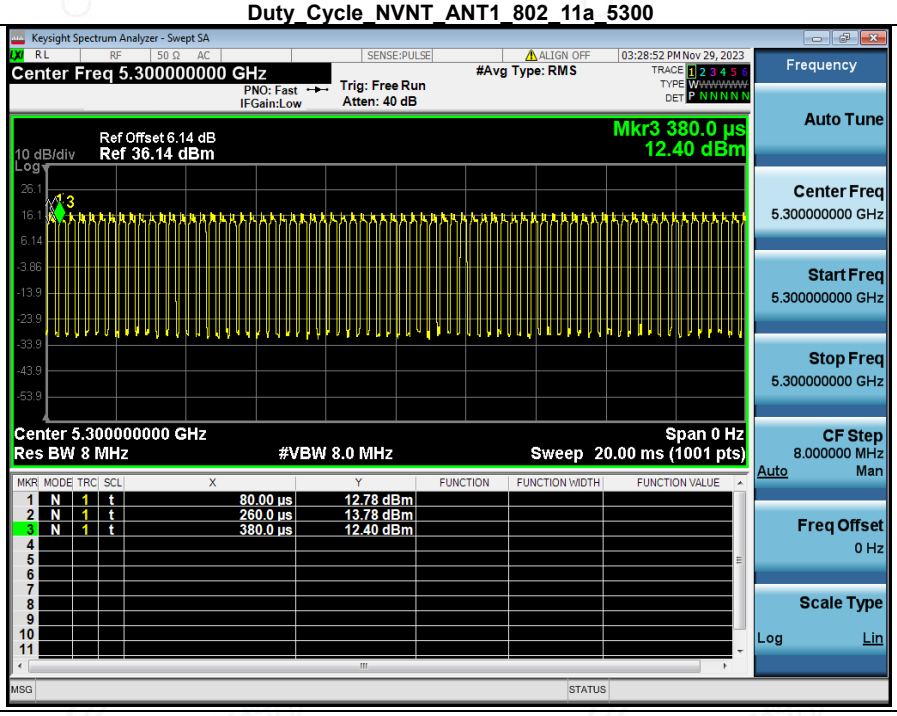
2. Duty Cycle

Condition	Antenna	Modulation	Frequency(MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5260.00	64.29	1.92
NVNT	ANT1	802.11a	5300.00	60.00	2.22
NVNT	ANT1	802.11a	5320.00	64.29	1.92
NVNT	ANT1	802.11n(HT20)	5260.00	61.54	2.11
NVNT	ANT1	802.11n(HT20)	5300.00	57.14	2.43
NVNT	ANT1	802.11n(HT20)	5320.00	61.54	2.11
NVNT	ANT1	802.11ac(VHT20)	5260.00	61.54	2.11
NVNT	ANT1	802.11ac(VHT20)	5300.00	53.85	2.69
NVNT	ANT1	802.11ac(VHT20)	5320.00	53.85	2.69

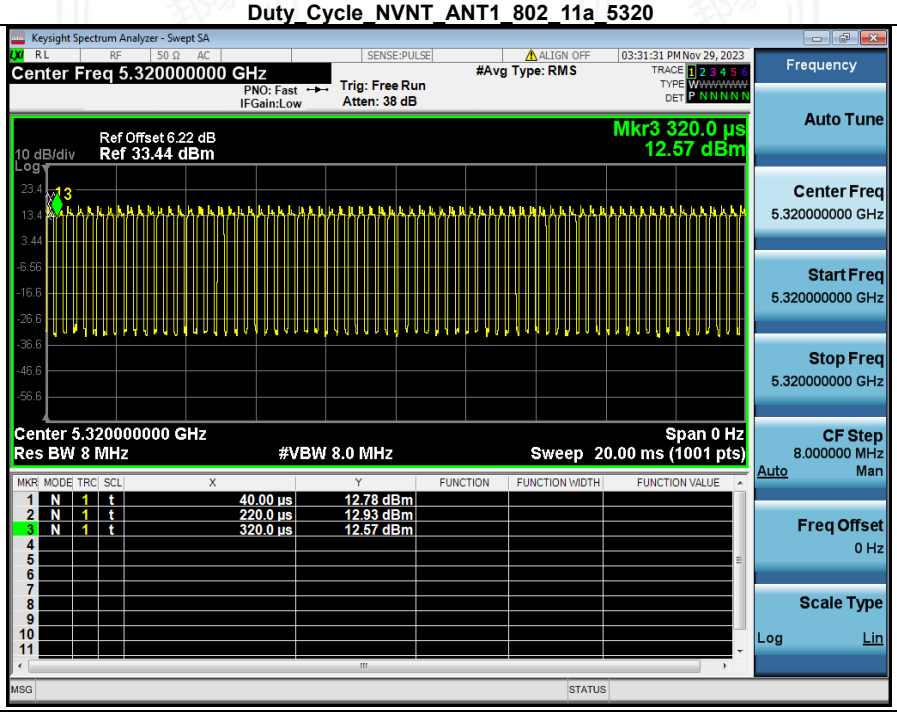
Duty_Cycle_NVNT_ANT1_802_11a_5260



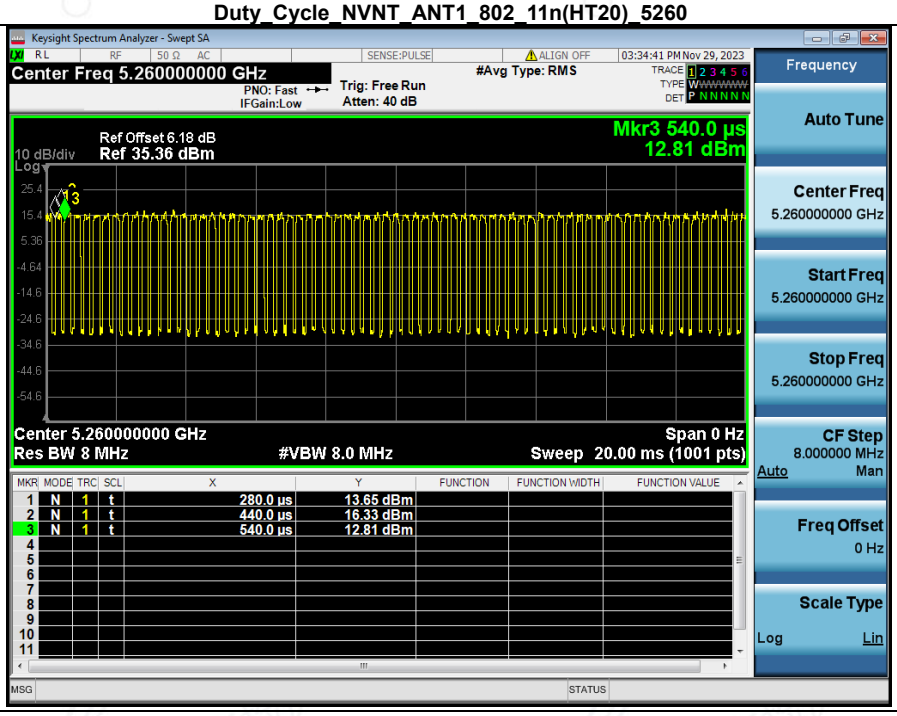
Duty_Cycle_NVNT_ANT1_802_11a_5300



Duty_Cycle_NVNT_ANT1_802_11a_5320



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5260



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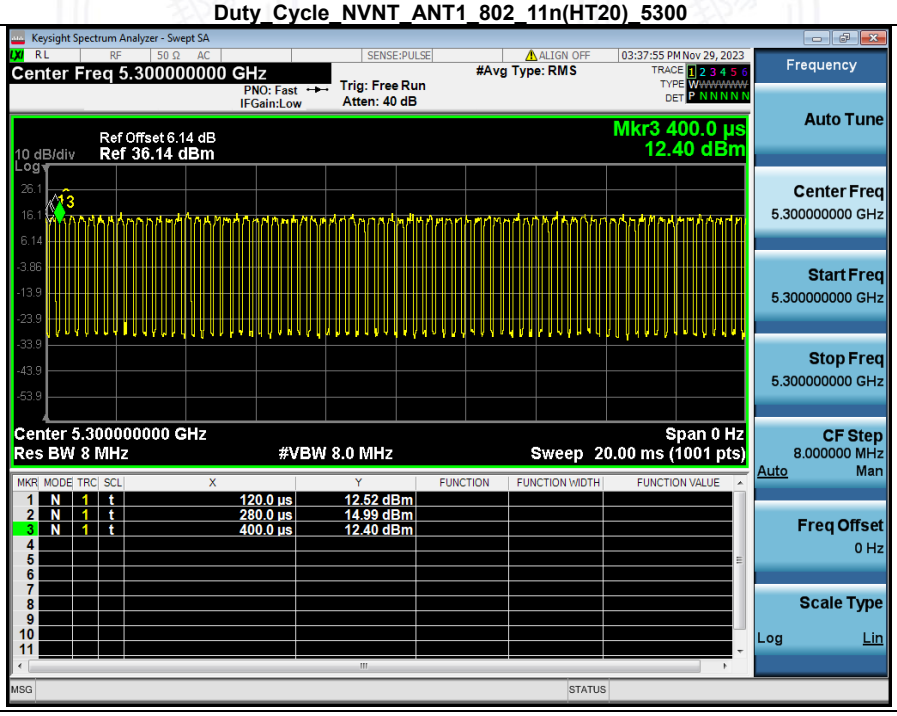
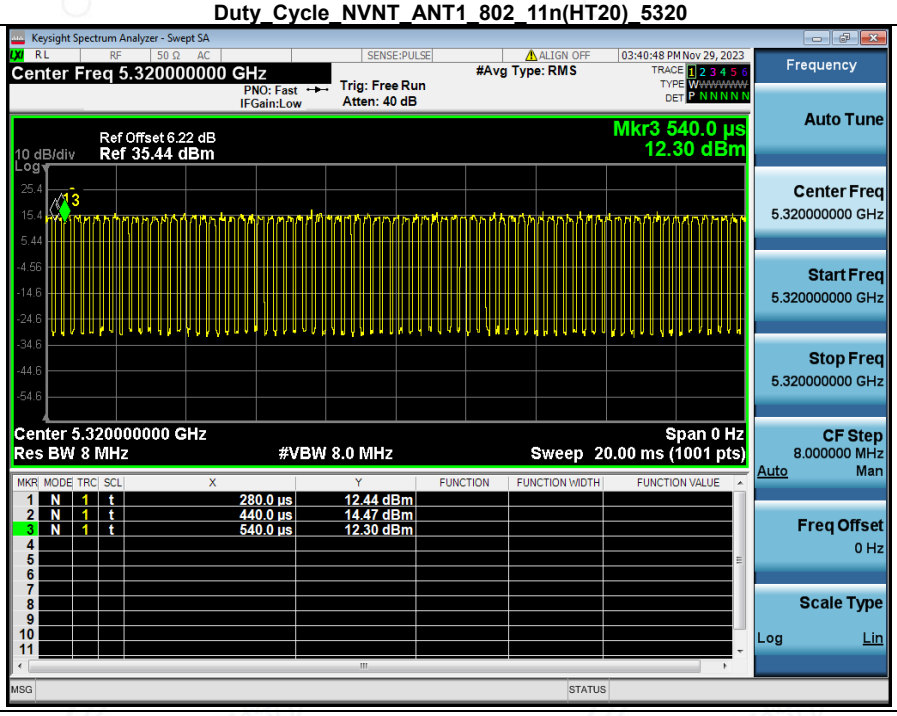
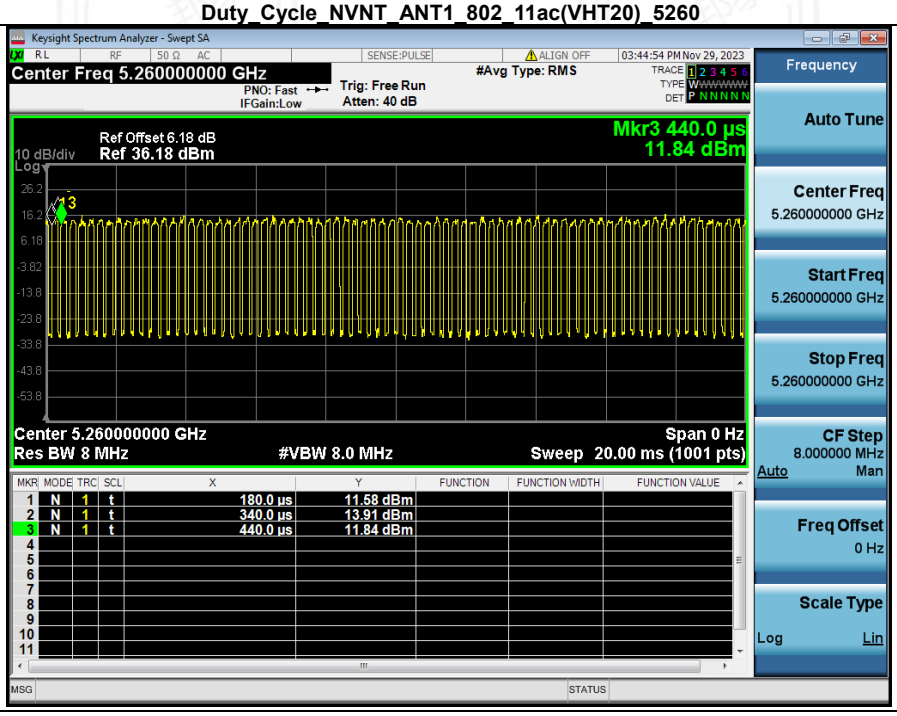


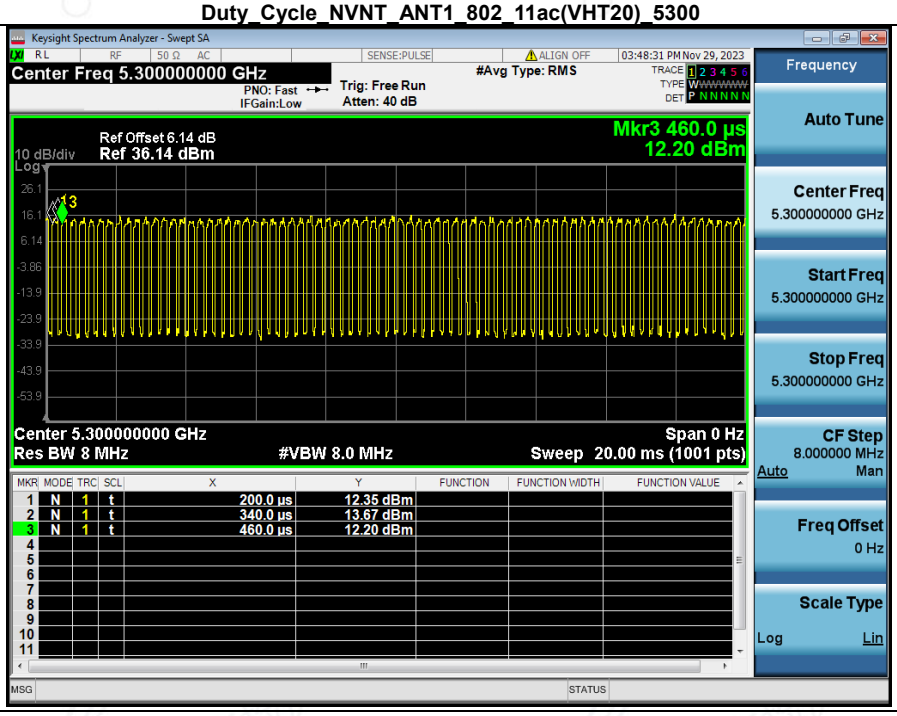
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5320



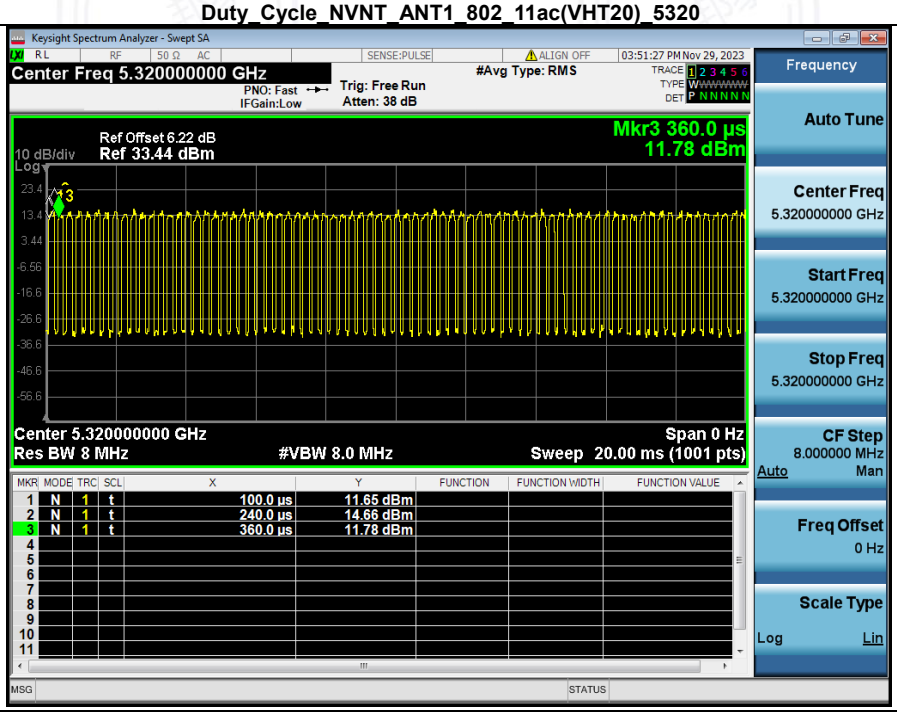
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5260



Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5300



Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5320



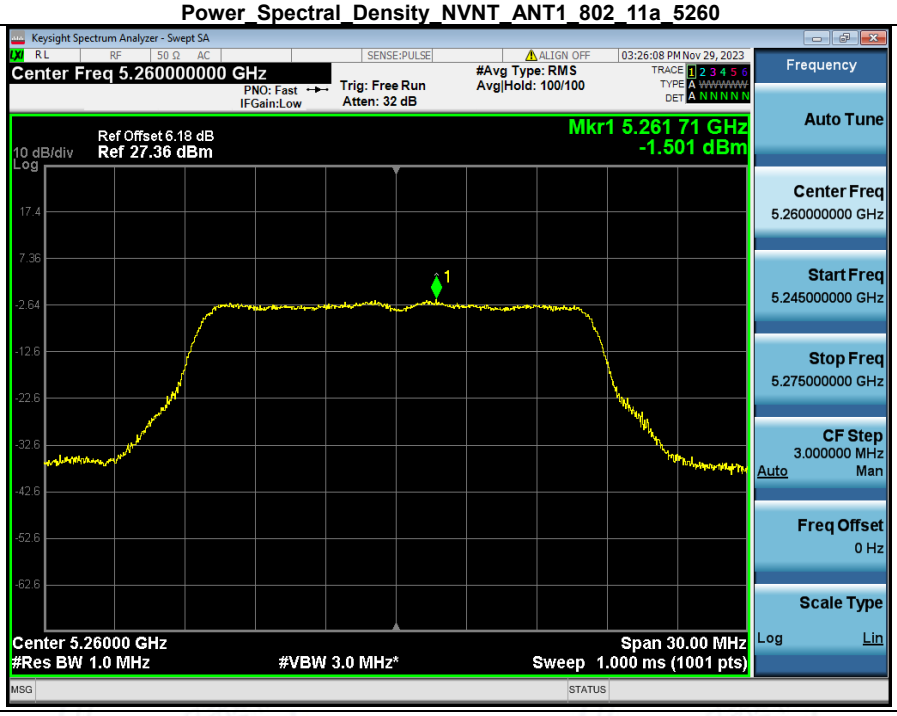
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	9.04	1.92	10.96	24	Pass
NVNT	ANT1	802.11a	5300.00	8.55	2.22	10.77	24	Pass
NVNT	ANT1	802.11a	5320.00	8.57	1.92	10.49	24	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	9.00	2.11	11.11	24	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	8.53	2.43	10.96	24	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	8.33	2.11	10.44	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	8.13	2.11	10.24	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	7.53	2.69	10.22	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	7.74	2.69	10.43	24	Pass

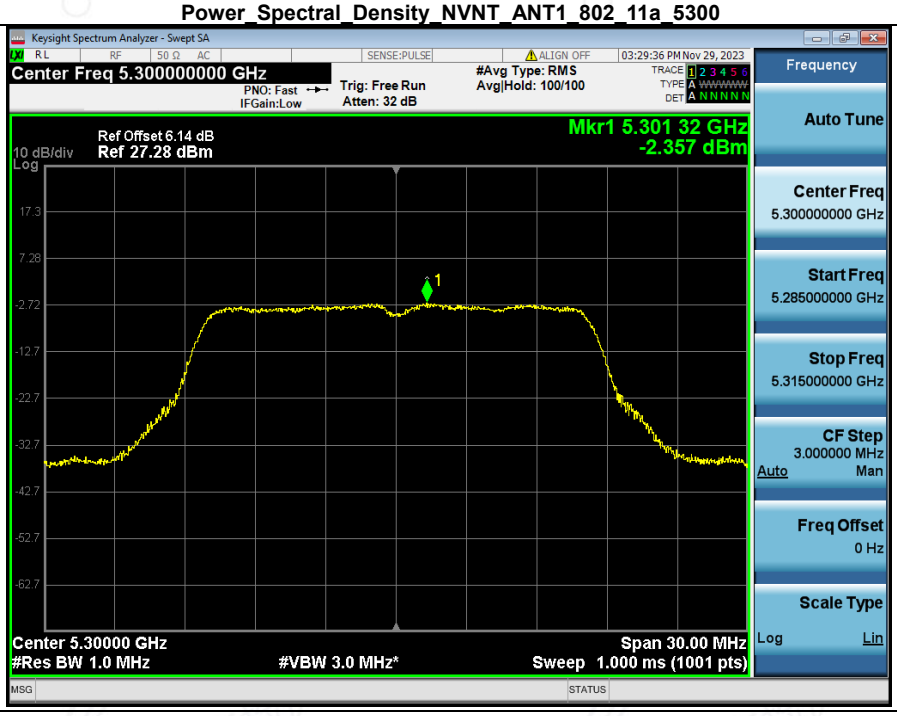
4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	-1.50	1.92	0.42	11	Pass
NVNT	ANT1	802.11a	5300.00	-2.36	2.22	-0.14	11	Pass
NVNT	ANT1	802.11a	5320.00	-2.21	1.92	-0.29	11	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	-2.16	2.11	-0.05	11	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	-2.83	2.43	-0.40	11	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	-2.67	2.11	-0.56	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	-2.98	2.11	-0.87	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	-3.43	2.69	-0.74	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	-3.59	2.69	-0.90	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5260

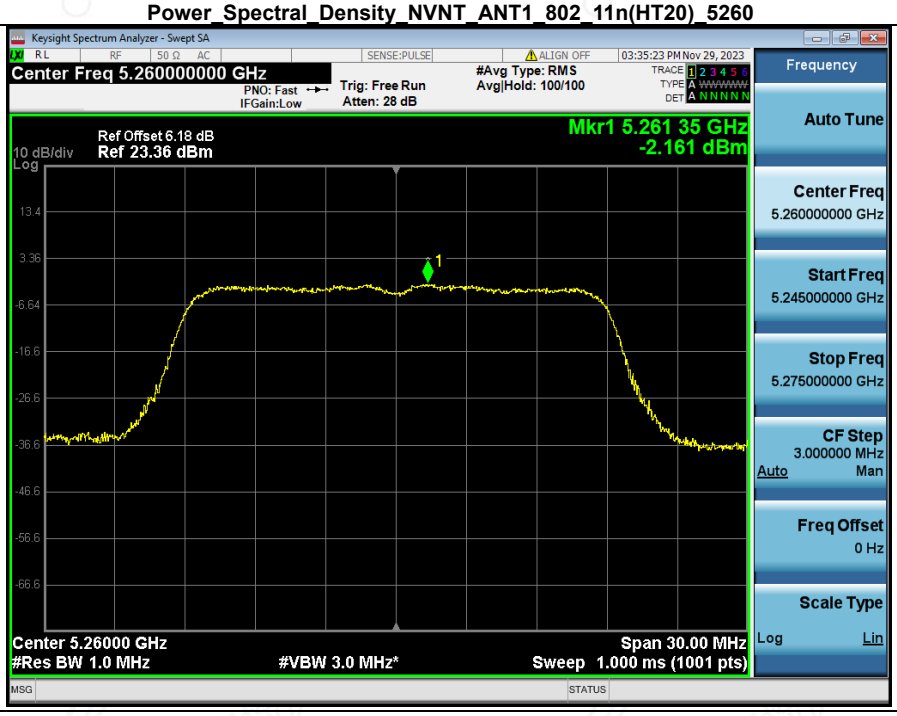


Power_Spectral_Density_NVNT_ANT1_802_11a_5300

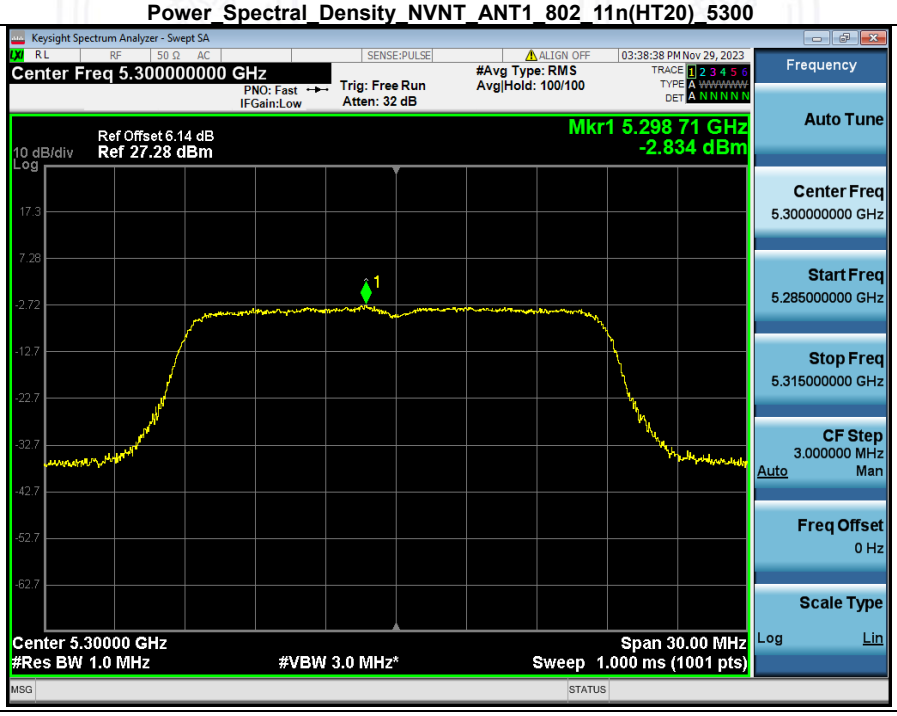


Power_Spectral_Density_NVNT_ANT1_802_11a_5320

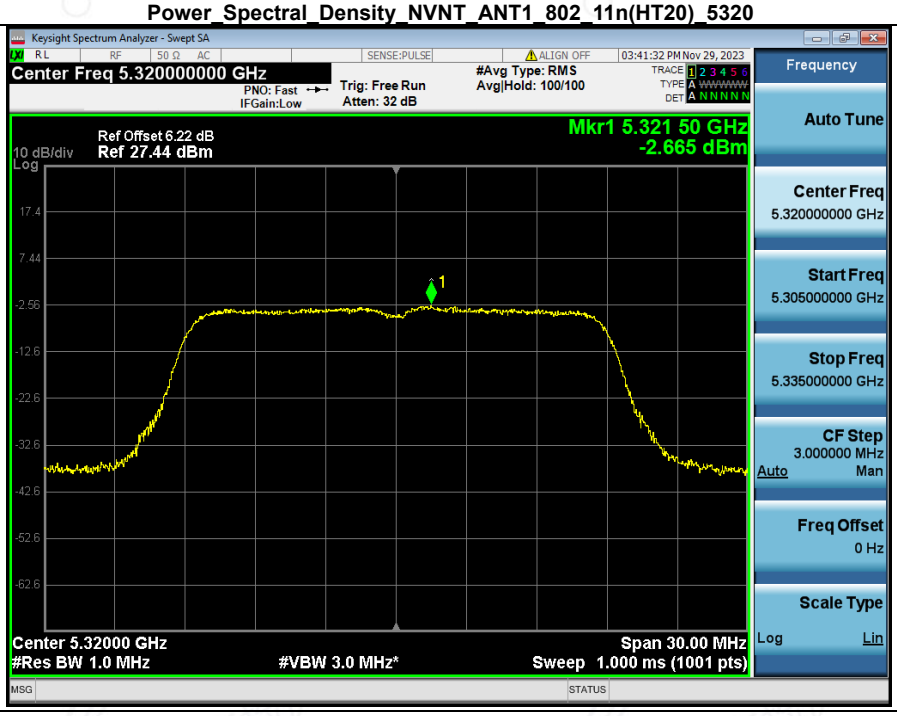
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5260



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5300

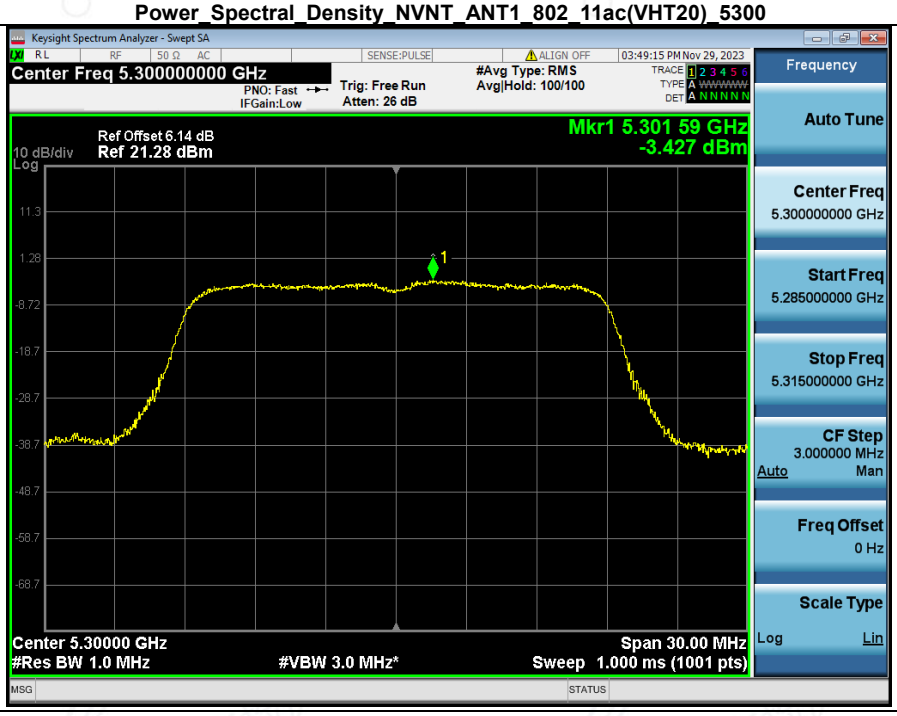


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5320

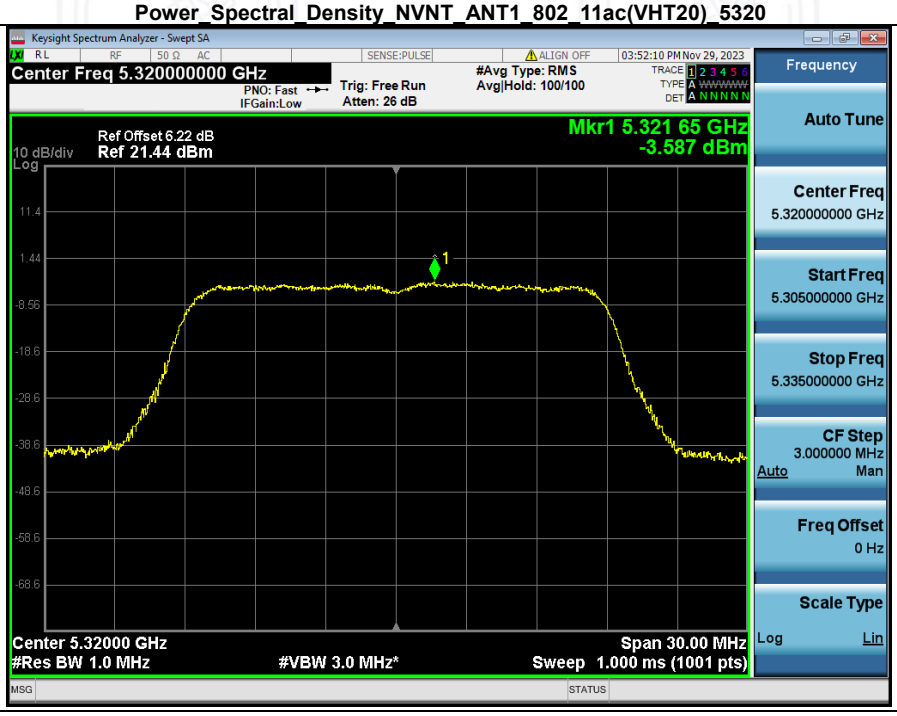


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5260

Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5300



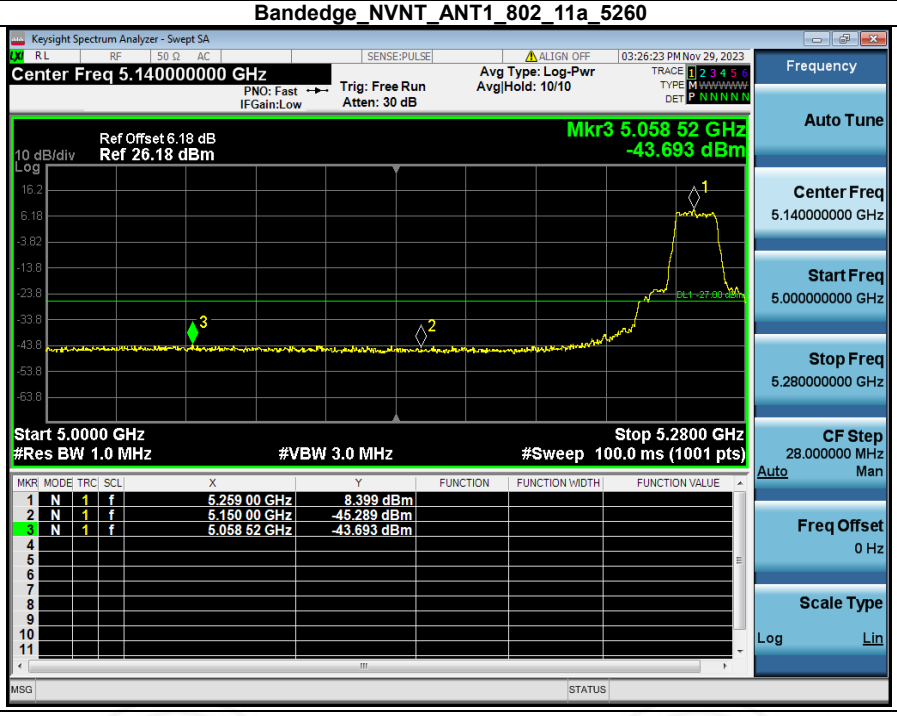
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5320



5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	5058.52	-43.69	-27	Pass
NVNT	ANT1	802.11a	5320.00	5350.20	-41.49	-27	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	5042.84	-43.07	-27	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	5350.20	-36.15	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	5052.64	-43.52	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	5350.20	-37.98	-27	Pass

Bandedge_NVNT_ANT1_802_11a_5260



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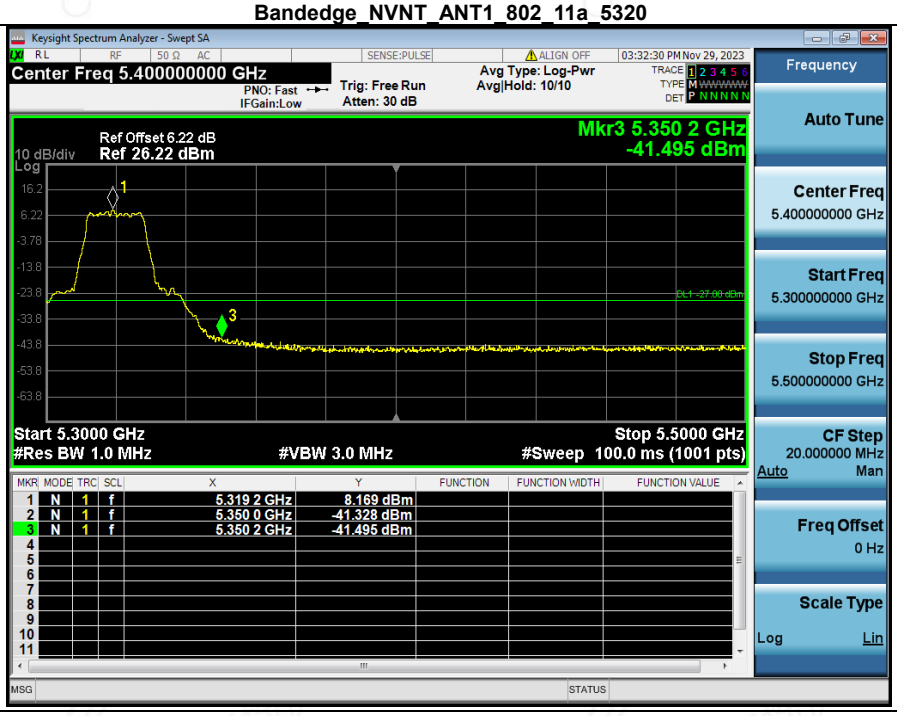
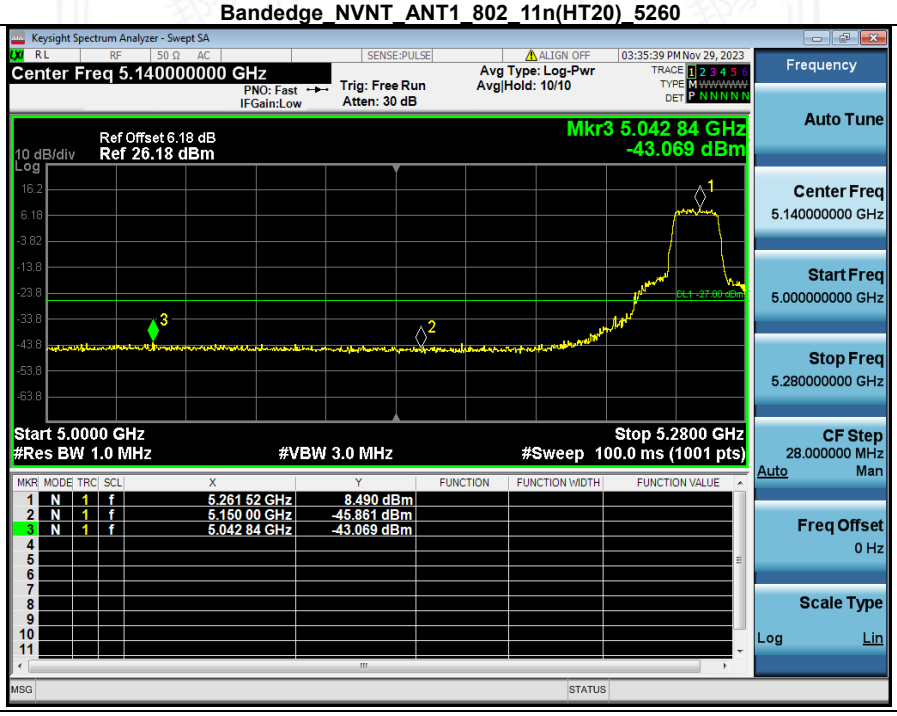


Bandedge_NVNT_ANT1_802_11n(HT20)_5260



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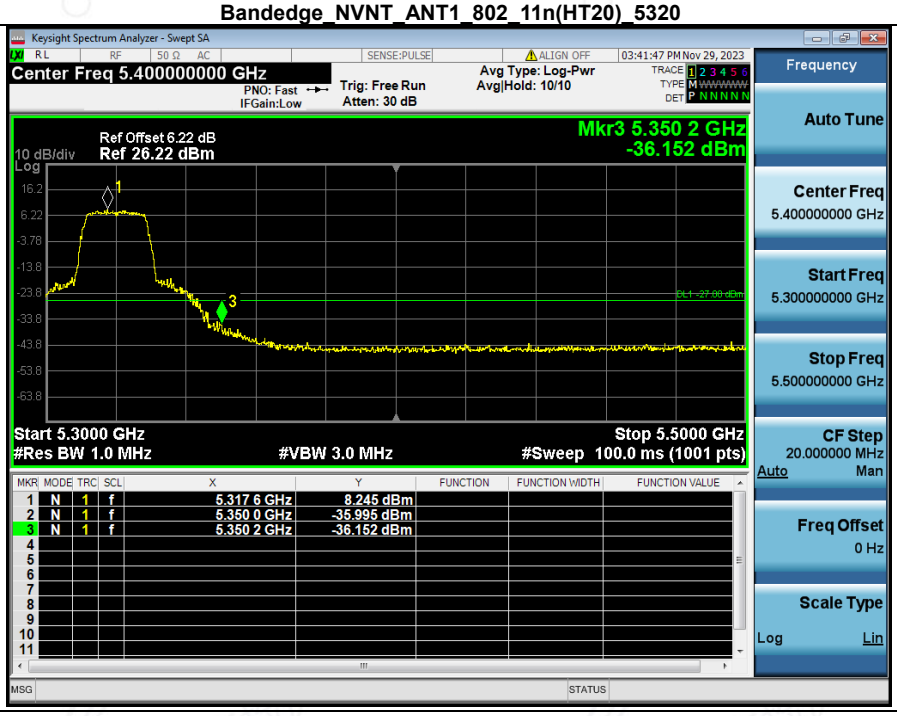
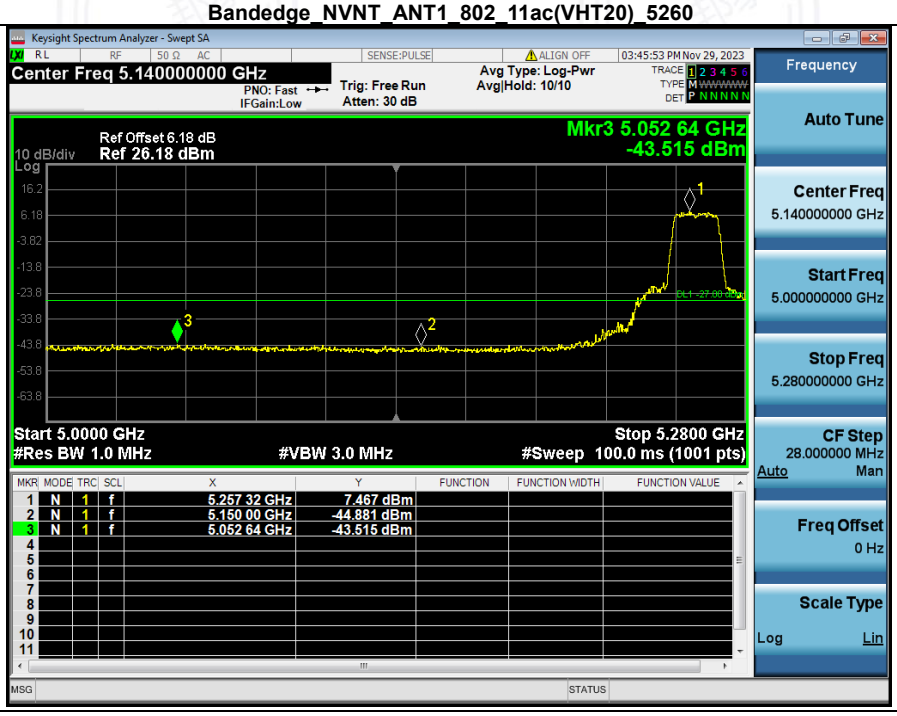
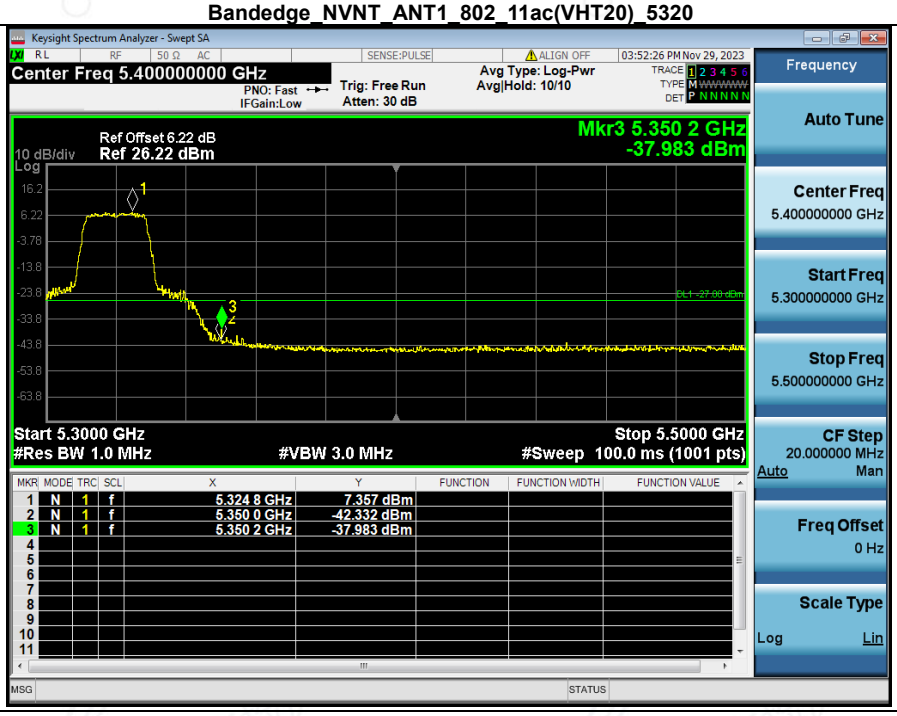


Bandedge_NVNT_ANT1_802_11ac(VHT20)_5260



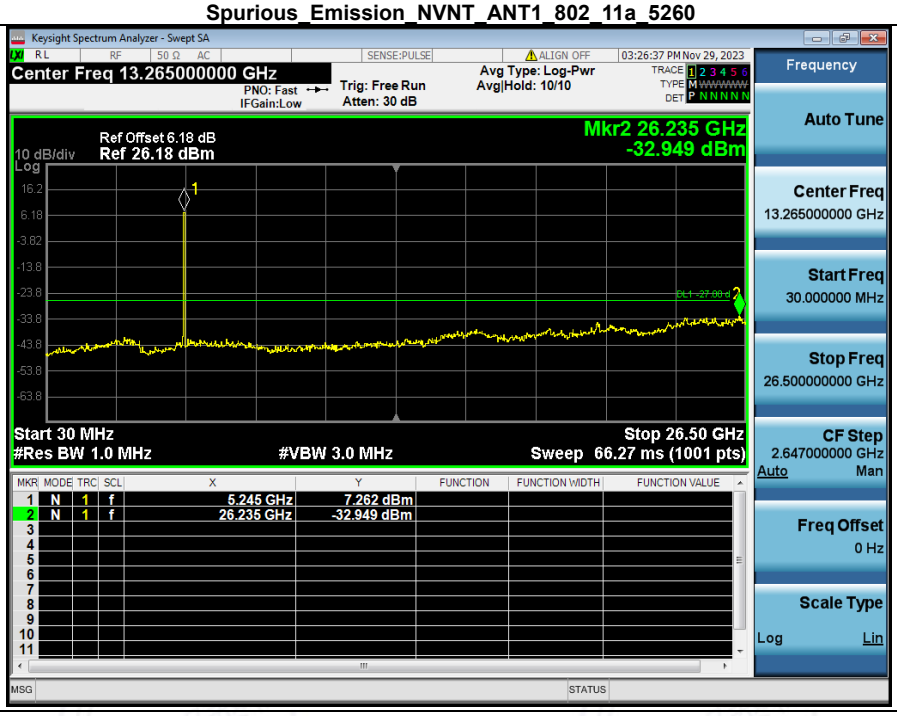
Bandedge_NVNT_ANT1_802_11ac(VHT20)_5320



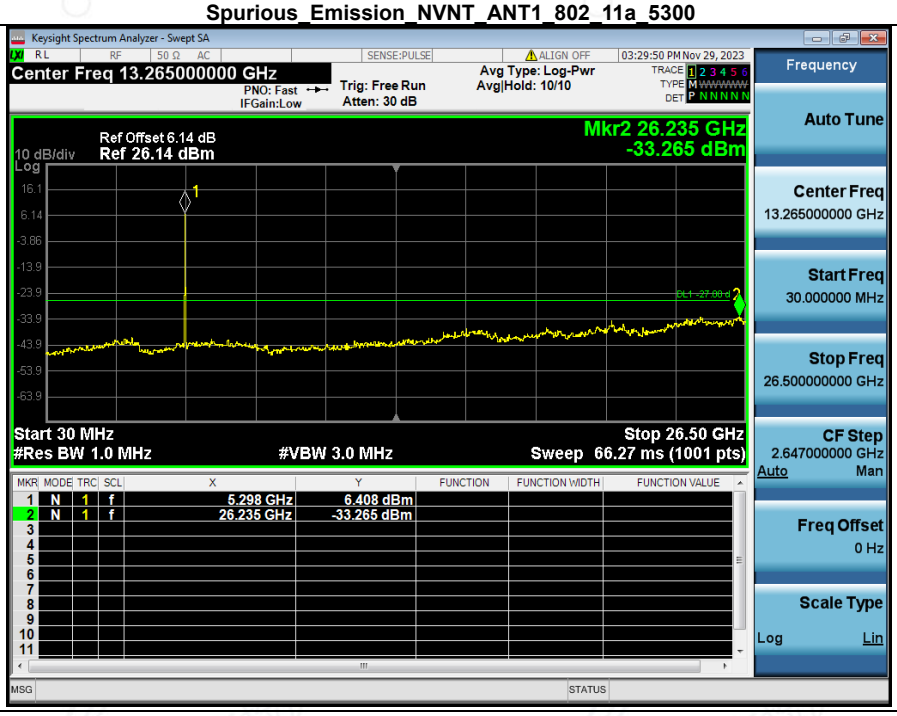
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	26235.30	-32.95	-27	Pass
NVNT	ANT1	802.11a	5300.00	26235.30	-33.26	-27	Pass
NVNT	ANT1	802.11a	5320.00	26155.89	-32.19	-27	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	24779.45	-33.33	-27	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	26182.36	-32.58	-27	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	25335.32	-32.39	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	26155.89	-32.54	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	26261.77	-33.35	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	24779.45	-32.09	-27	Pass

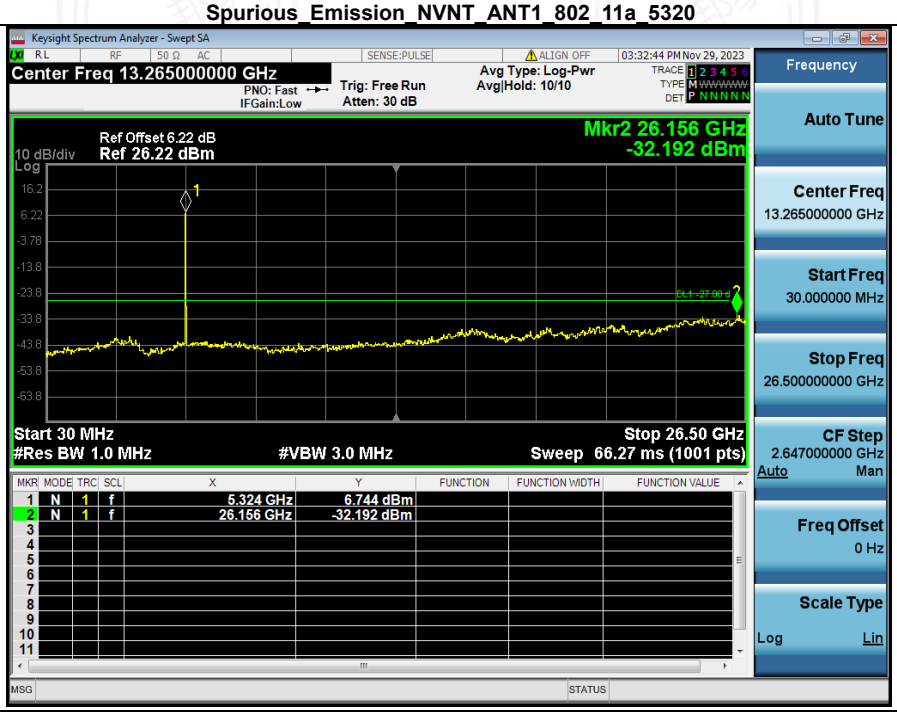
Spurious_Emission_NVNT_ANT1_802_11a_5260



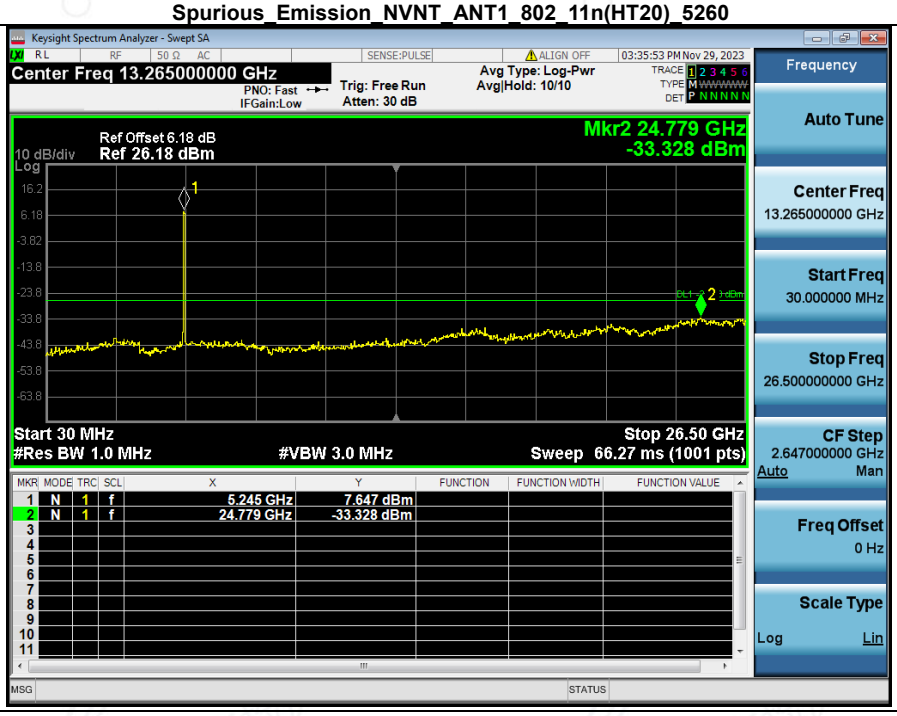
Spurious_Emission_NVNT_ANT1_802_11a_5300



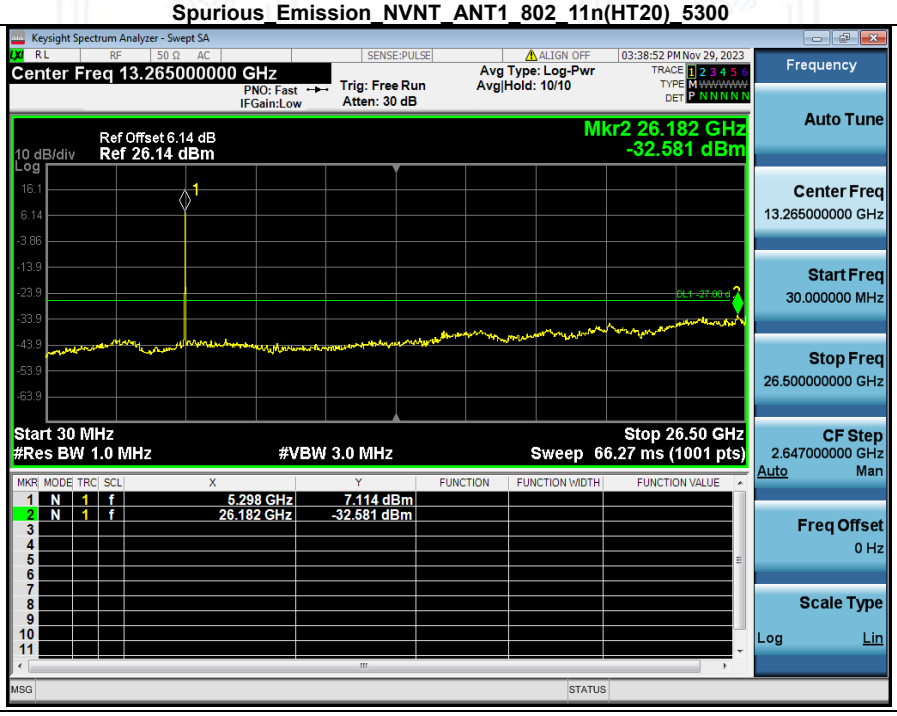
Spurious_Emission_NVNT_ANT1_802_11a_5320



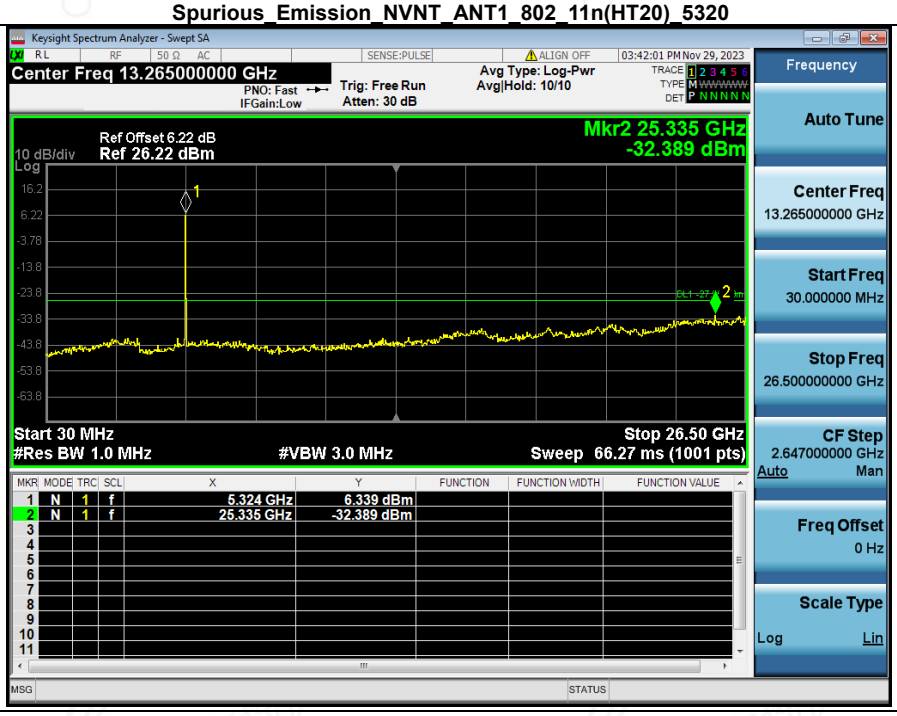
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5260



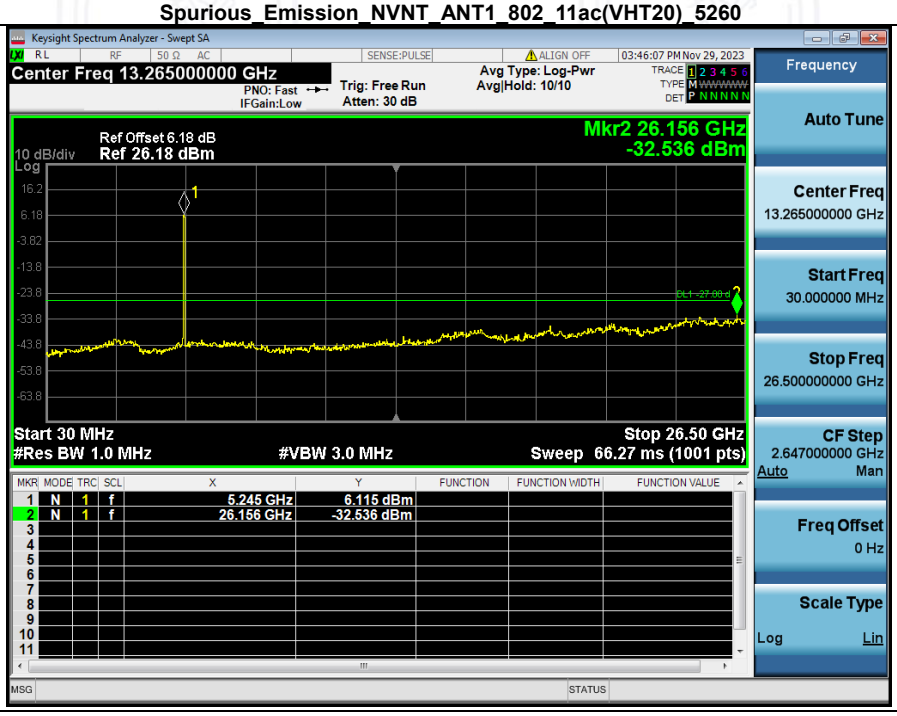
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5300



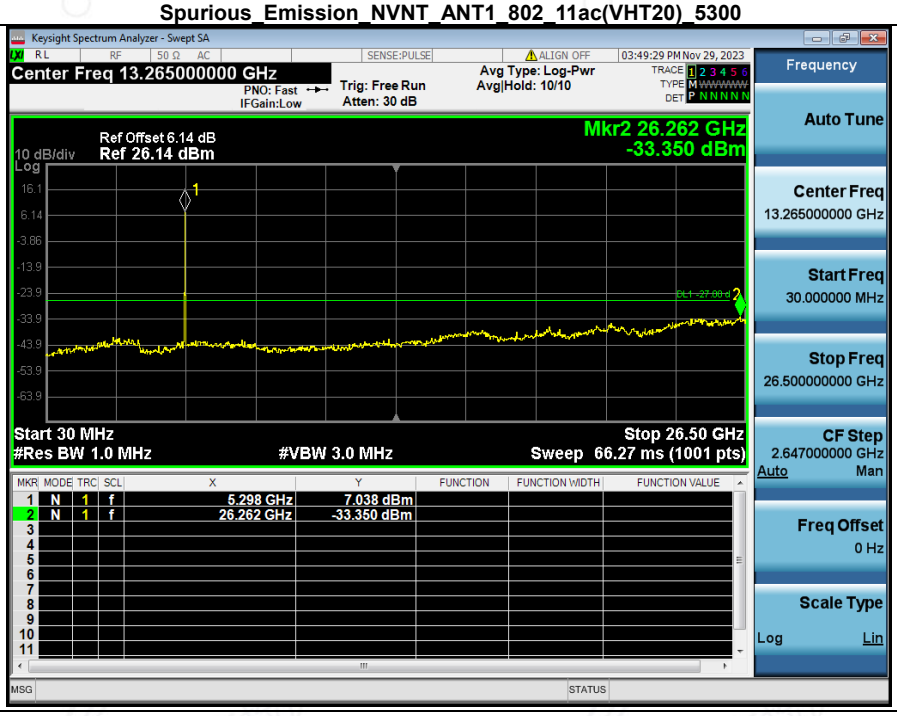
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5320



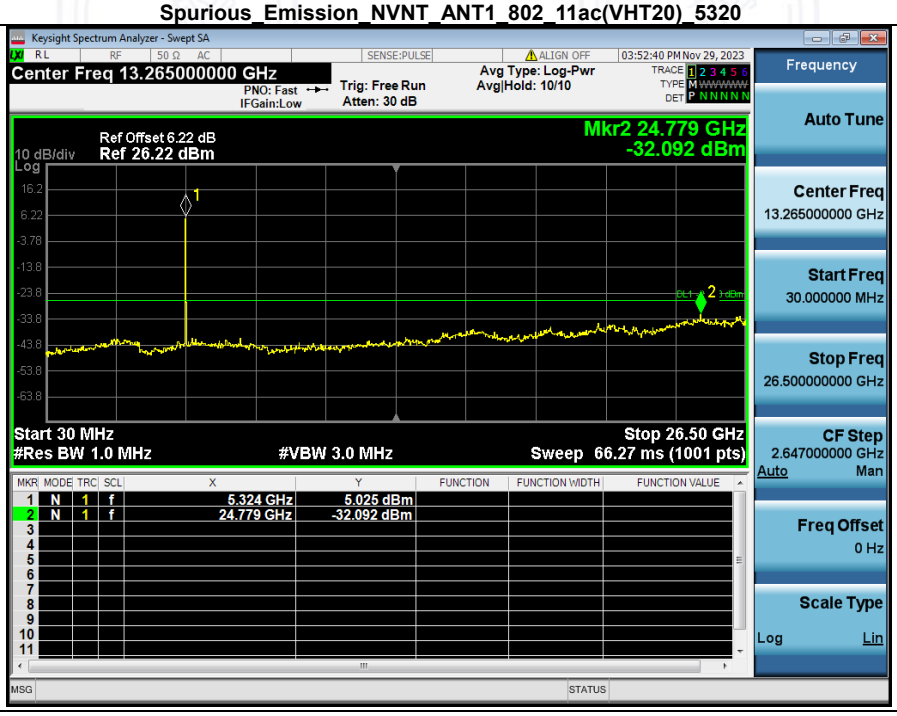
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5260



Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5300



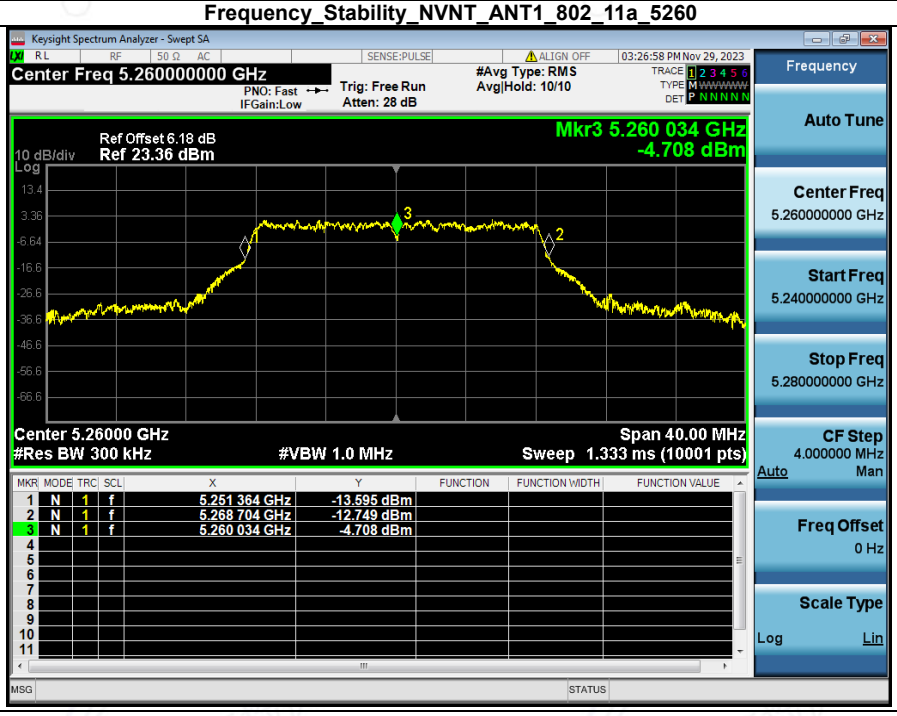
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5320



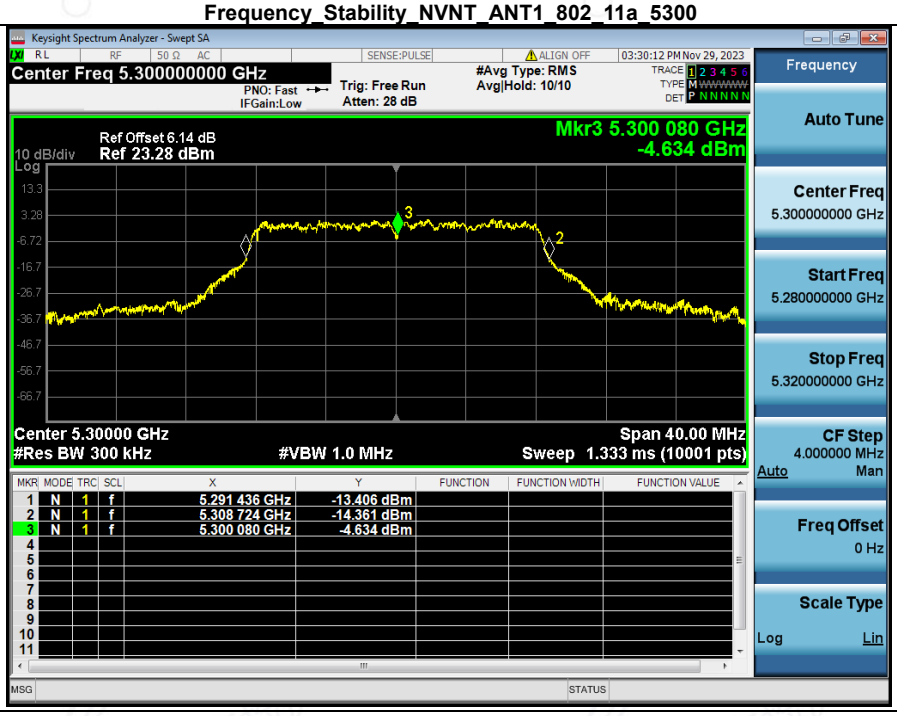
7. Frequency Stability

Condition	Antenna	Modulation	Frequency(MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5260.00	5260.034	5251.364	5268.704	5250~5350	Pass
NVNT	ANT1	802.11a	5300.00	5300.080	5291.436	5308.724	5250~5350	Pass
NVNT	ANT1	802.11a	5320.00	5320.046	5311.412	5328.680	5250~5350	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	5259.976	5250.752	5269.200	5250~5350	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	5300.026	5290.824	5309.228	5250~5350	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	5319.974	5310.748	5329.200	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	5259.990	5250.800	5269.180	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	5300.036	5290.852	5309.220	5250~5350	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	5320.038	5310.848	5329.228	5250~5350	Pass

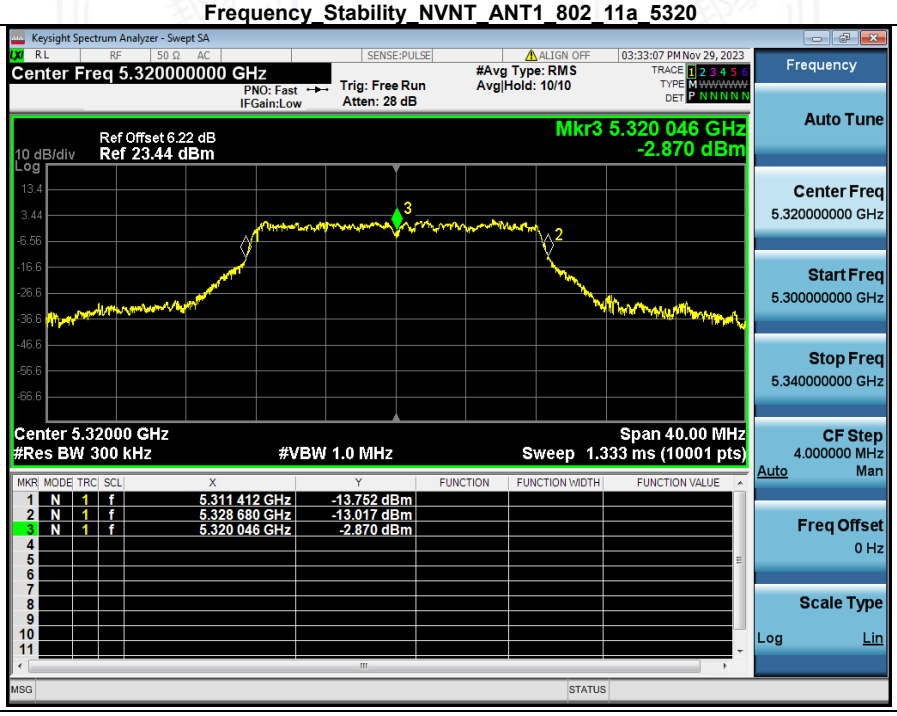
Frequency_Stability_NVNT_ANT1_802_11a_5260



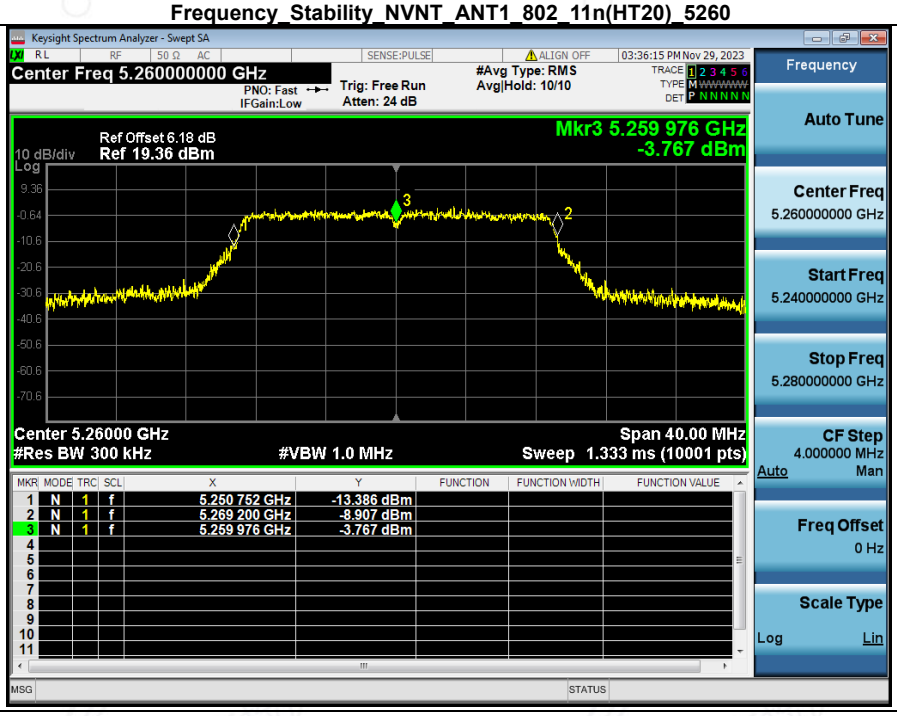
Frequency_Stability_NVNT_ANT1_802_11a_5300



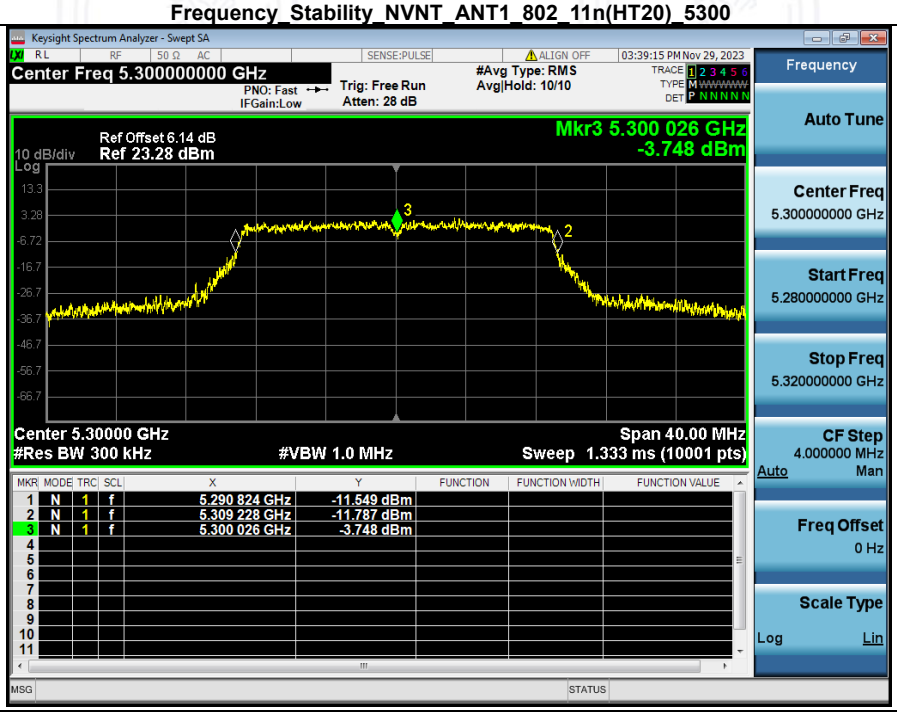
Frequency_Stability_NVNT_ANT1_802_11a_5320



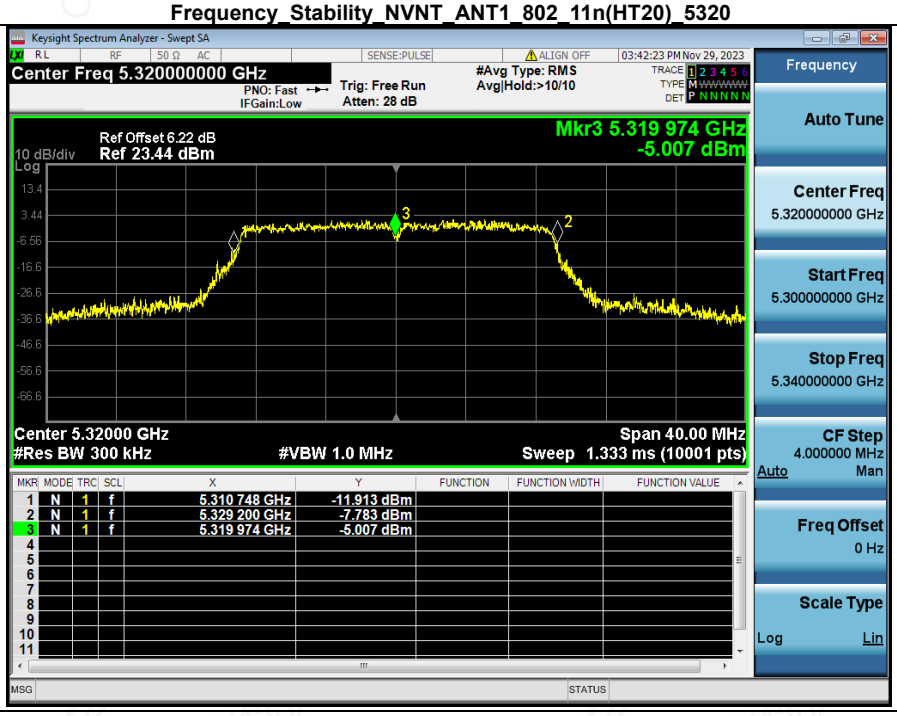
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5260



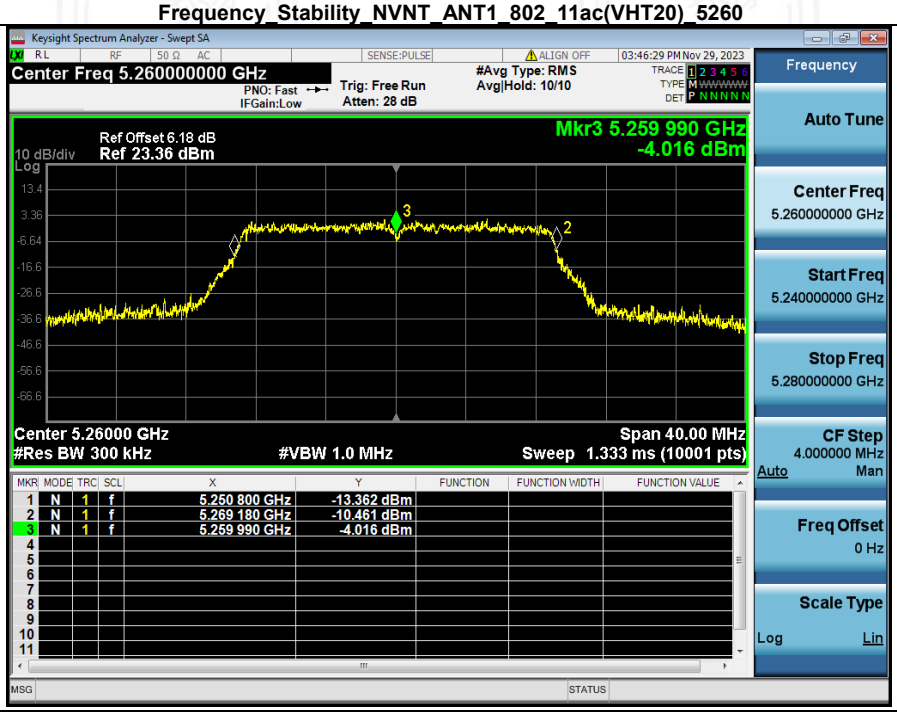
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5300



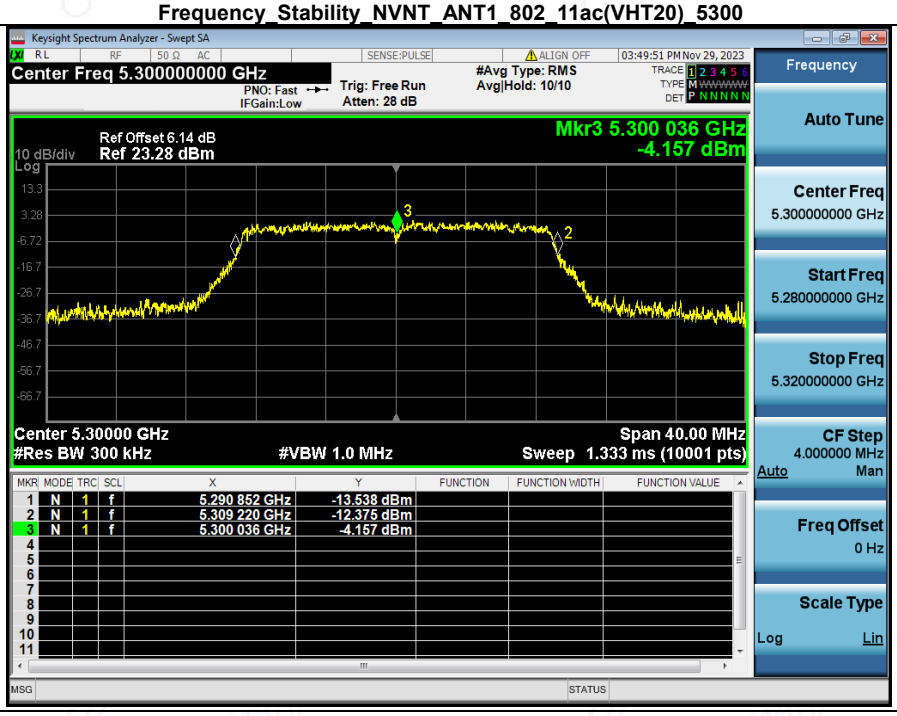
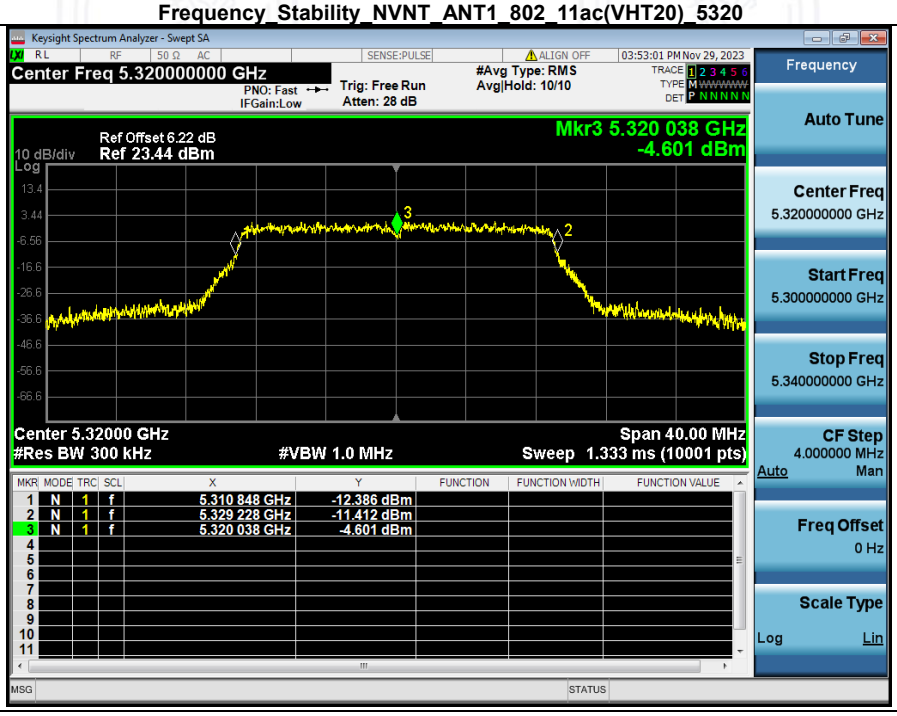
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5320



Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5260



Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5300



Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5320