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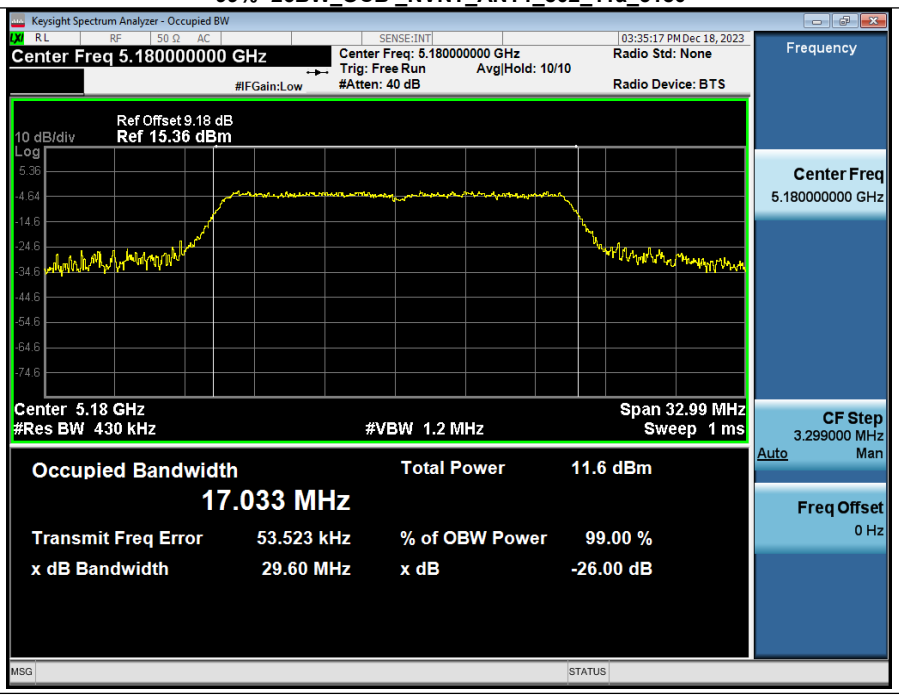
FCC ID WIFI5.2
FCC_5.2G_WIFI (Part15.407) Test Data

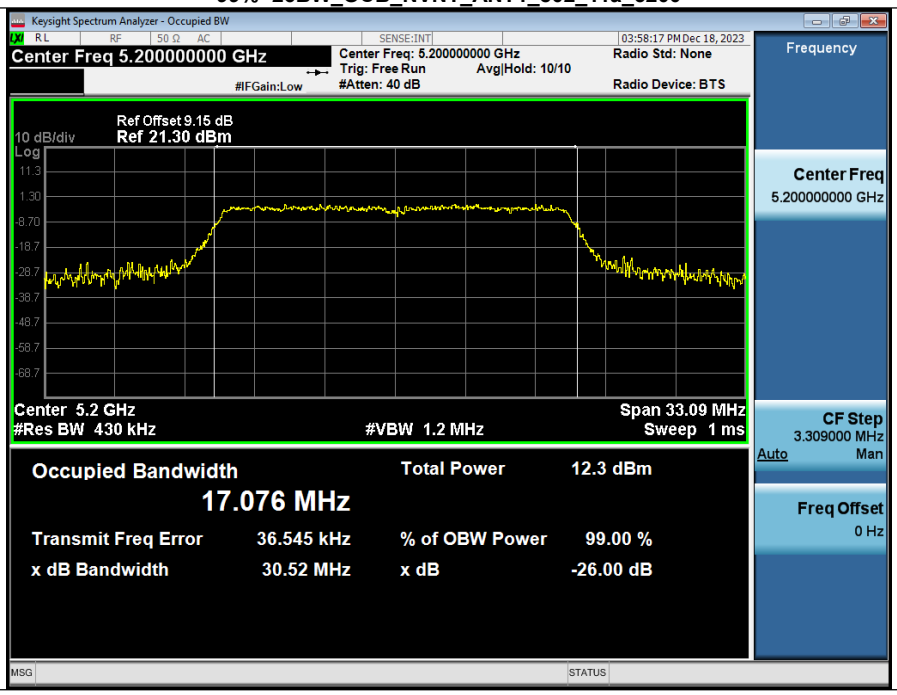
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	29.60	17.03
NVNT	ANT1	802.11a	5200.00	30.52	17.08
NVNT	ANT1	802.11a	5240.00	28.86	17.04
NVNT	ANT1	802.11n(HT20)	5180.00	32.00	17.89
NVNT	ANT1	802.11n(HT20)	5200.00	34.38	17.91
NVNT	ANT1	802.11n(HT20)	5240.00	29.75	17.88
NVNT	ANT1	802.11n(HT40)	5190.00	47.88	36.32
NVNT	ANT1	802.11n(HT40)	5230.00	48.35	36.34

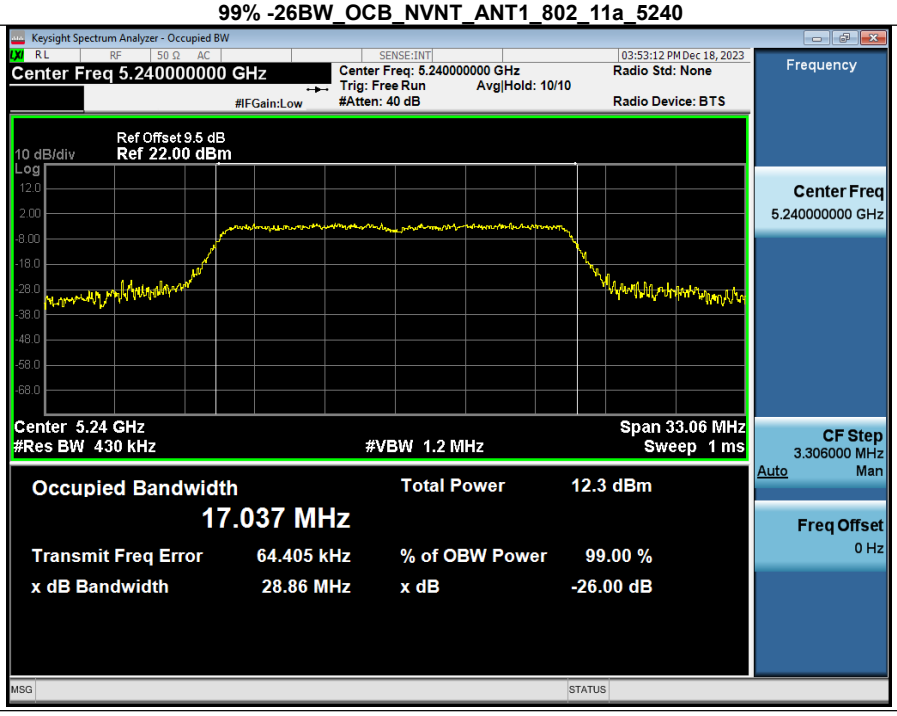
99% -26BW_OCB _NVNT_ANT1_802_11a_5180



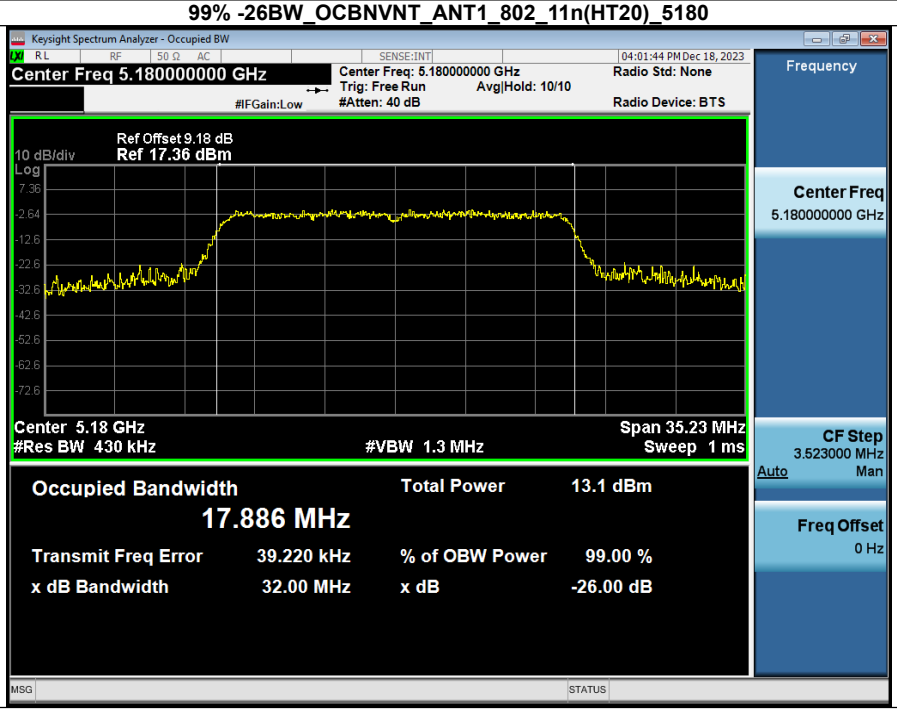
99% -26BW_OCB_NVNT_ANT1_802_11a_5200



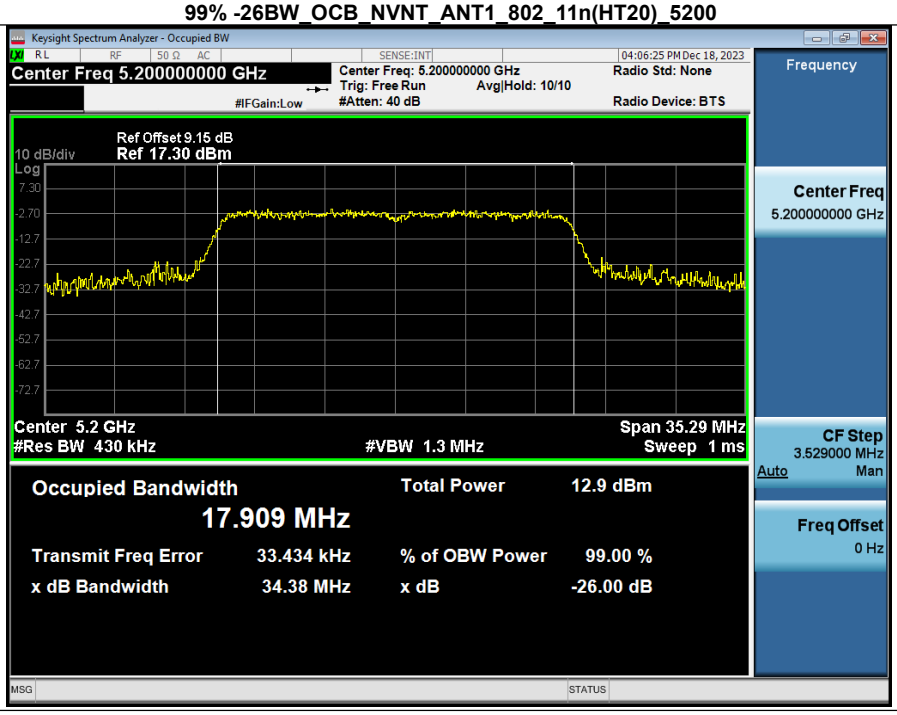
99% -26BW_OCB_NVNT_ANT1_802_11a_5240



99% -26BW_OCBNVNT_ANT1_802_11n(HT20)_5180



99% -26BW_OCB_NVNT_ANT1_802_11n(HT20)_5200



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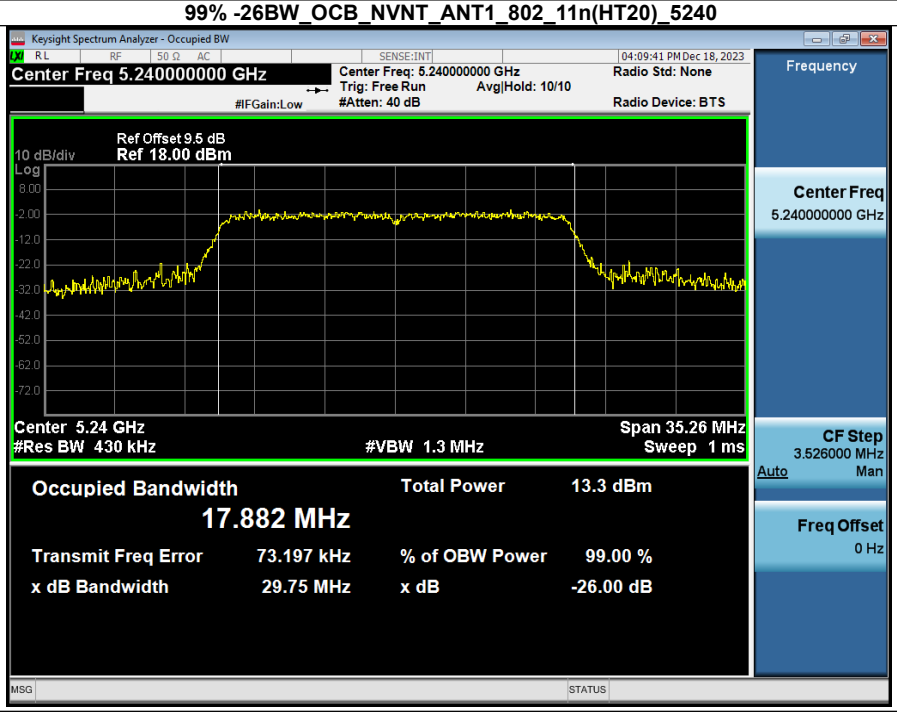

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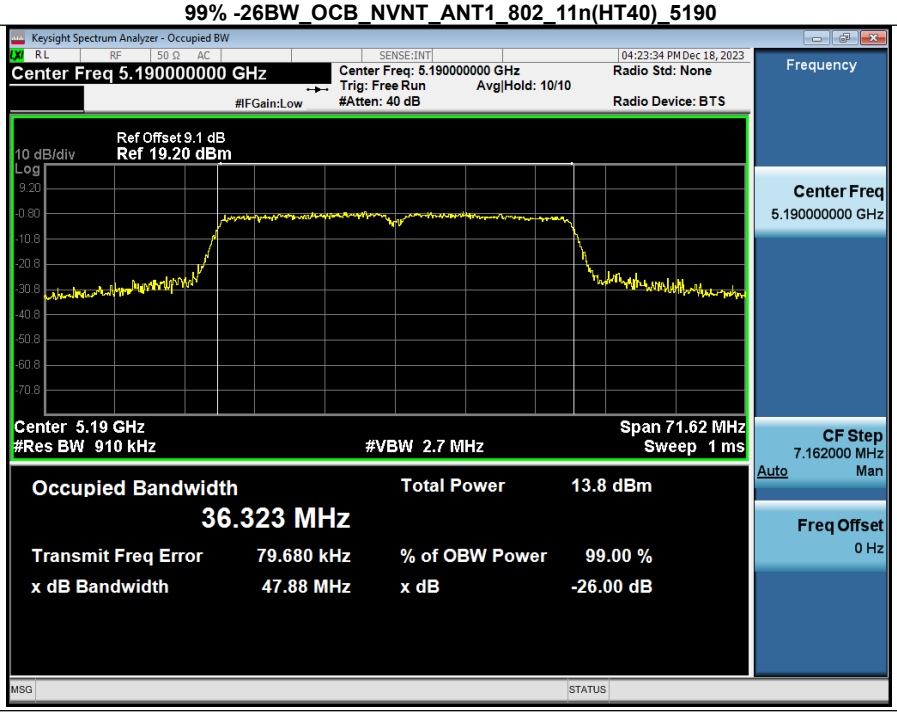
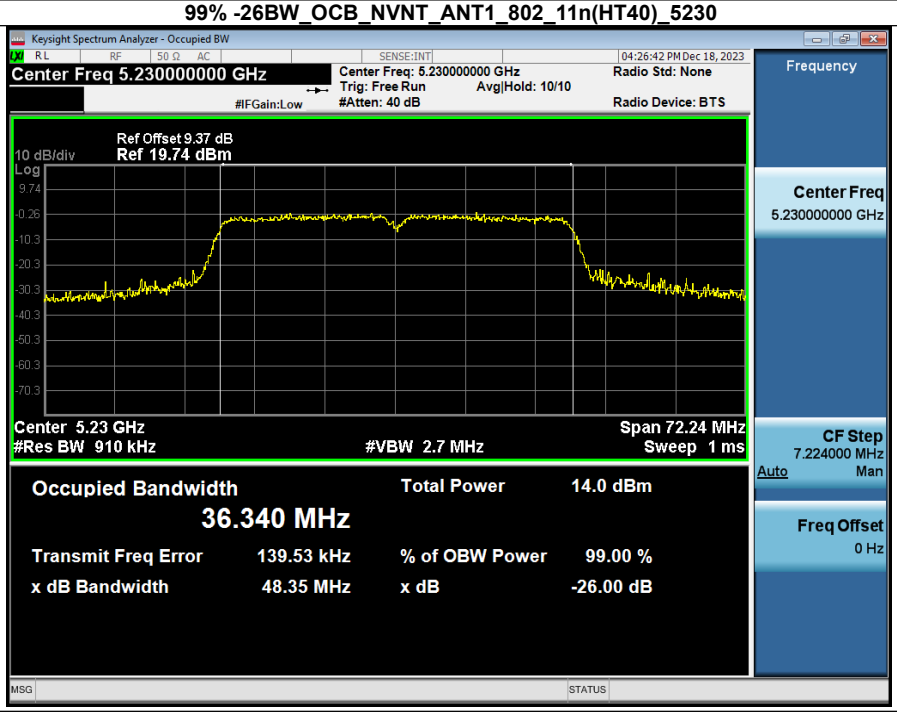


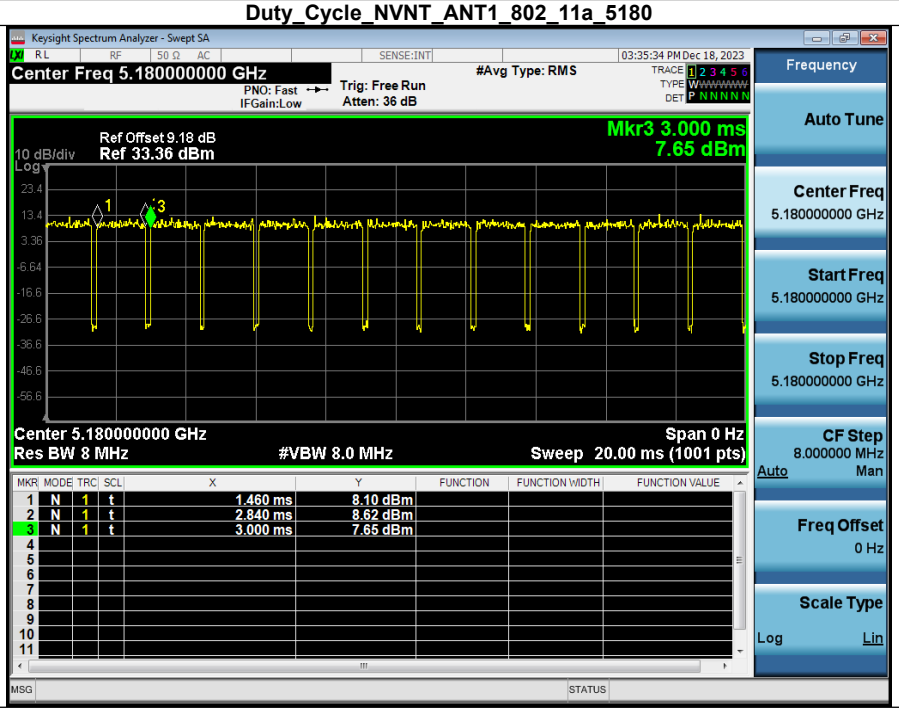
99% -26BW_OCB_NVNT_ANT1_802_11n(HT40)_5230



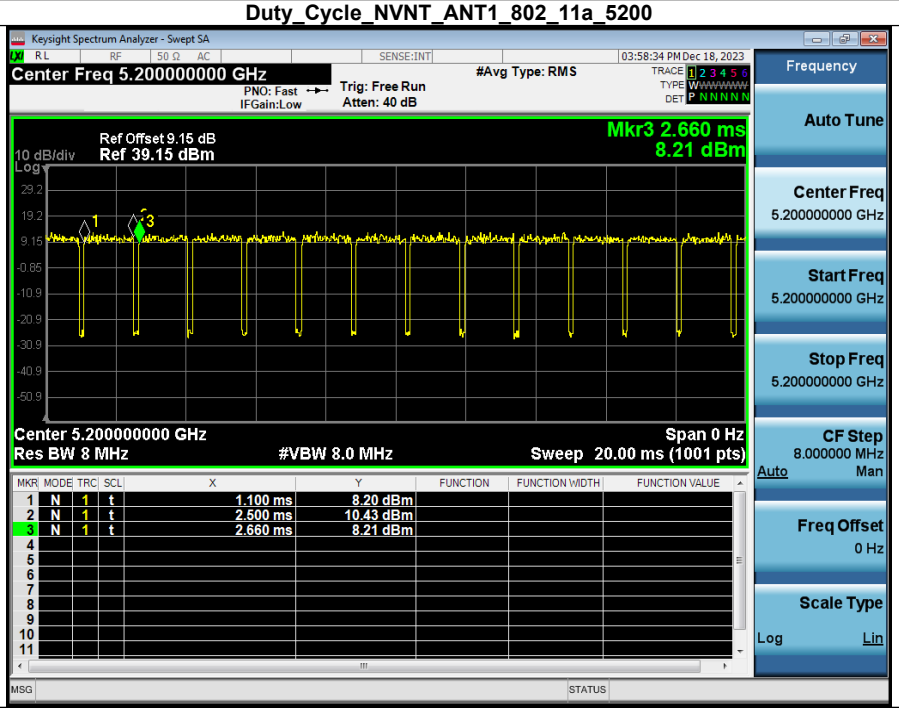
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	89.61	0.48
NVNT	ANT1	802.11a	5200.00	89.74	0.47
NVNT	ANT1	802.11a	5240.00	89.61	0.48
NVNT	ANT1	802.11n(HT20)	5180.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	5200.00	89.39	0.49
NVNT	ANT1	802.11n(HT20)	5240.00	89.39	0.49
NVNT	ANT1	802.11n(HT40)	5190.00	81.08	0.91
NVNT	ANT1	802.11n(HT40)	5230.00	80.56	0.94

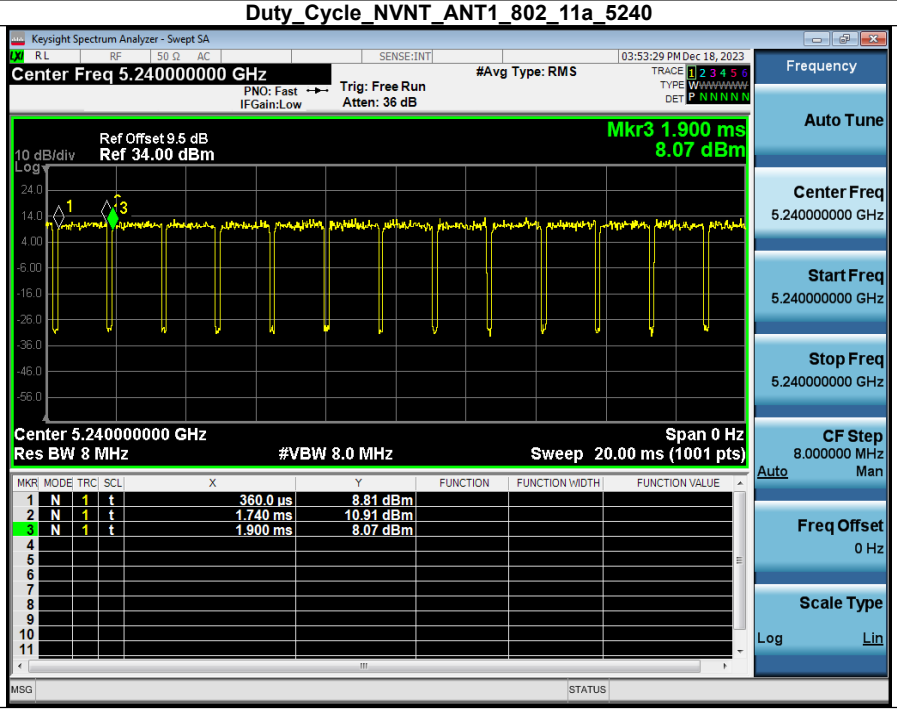
Duty_Cycle_NVNT_ANT1_802_11a_5180



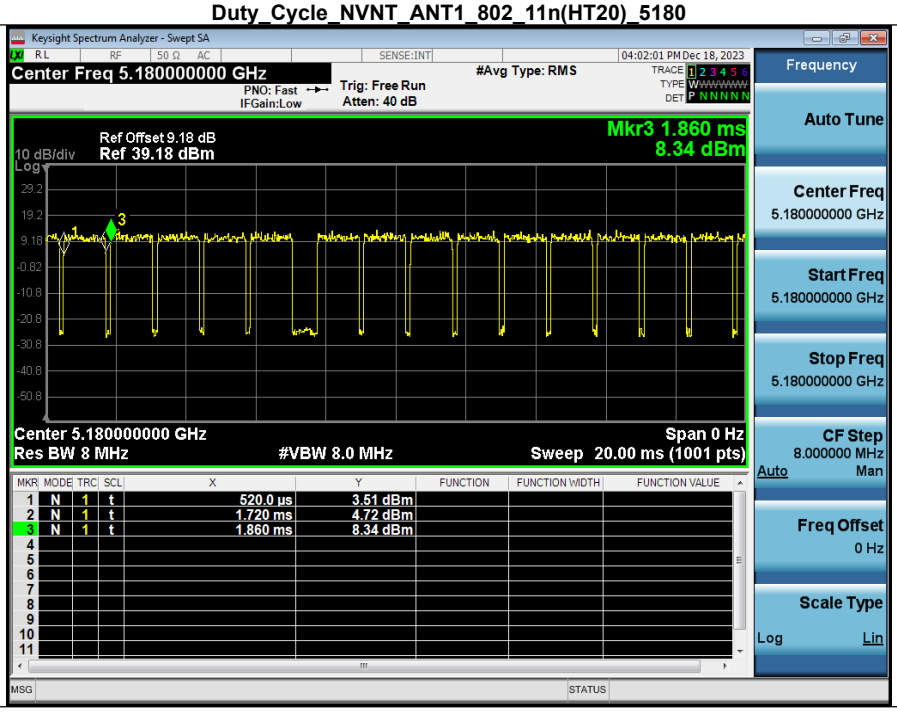
Duty_Cycle_NVNT_ANT1_802_11a_5200



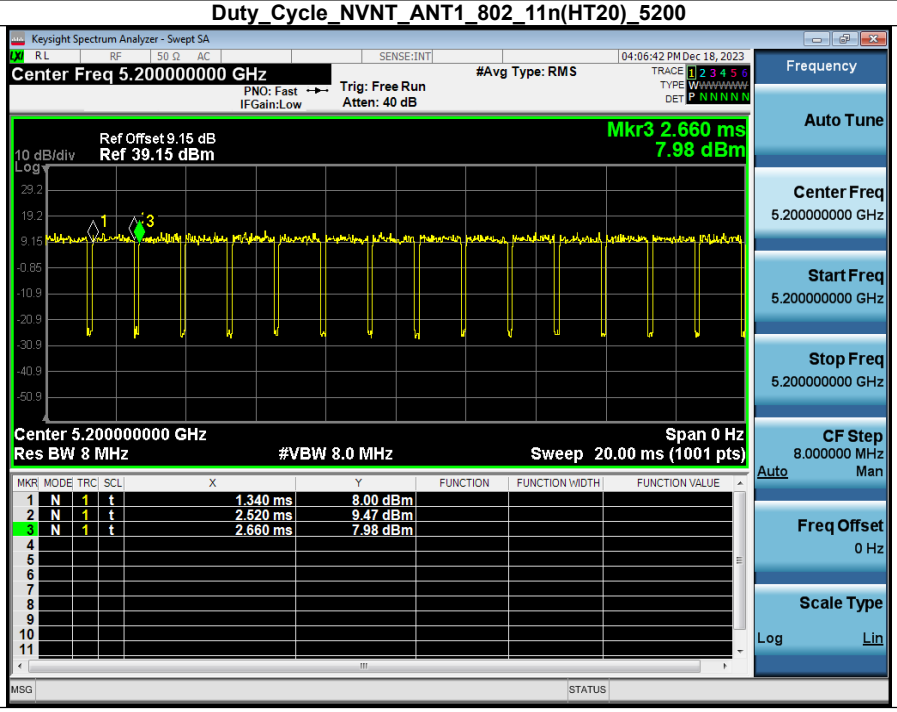
Duty_Cycle_NVNT_ANT1_802_11a_5240



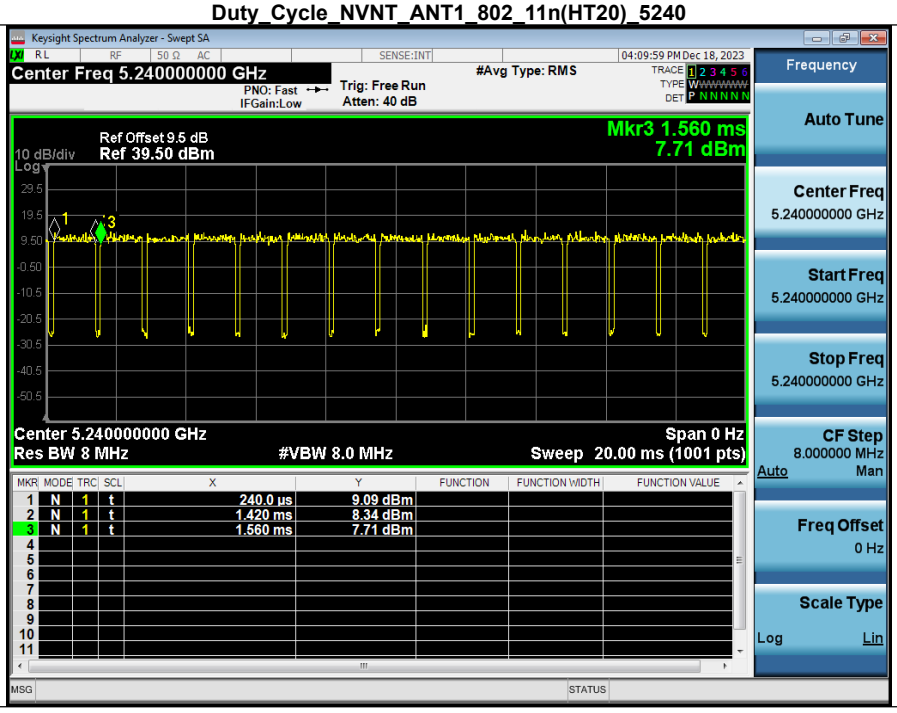
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



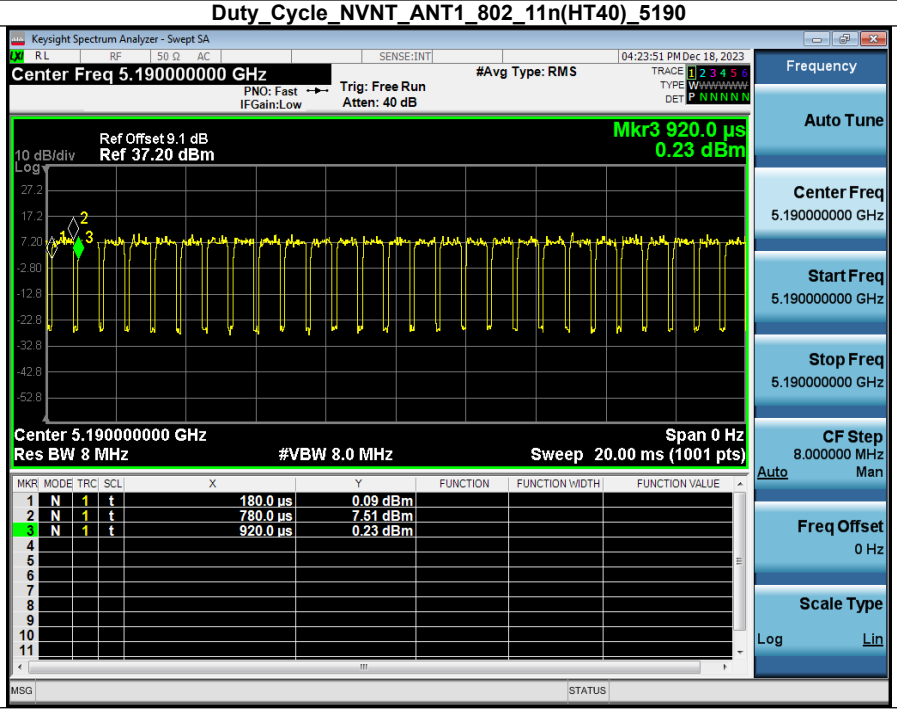
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5200



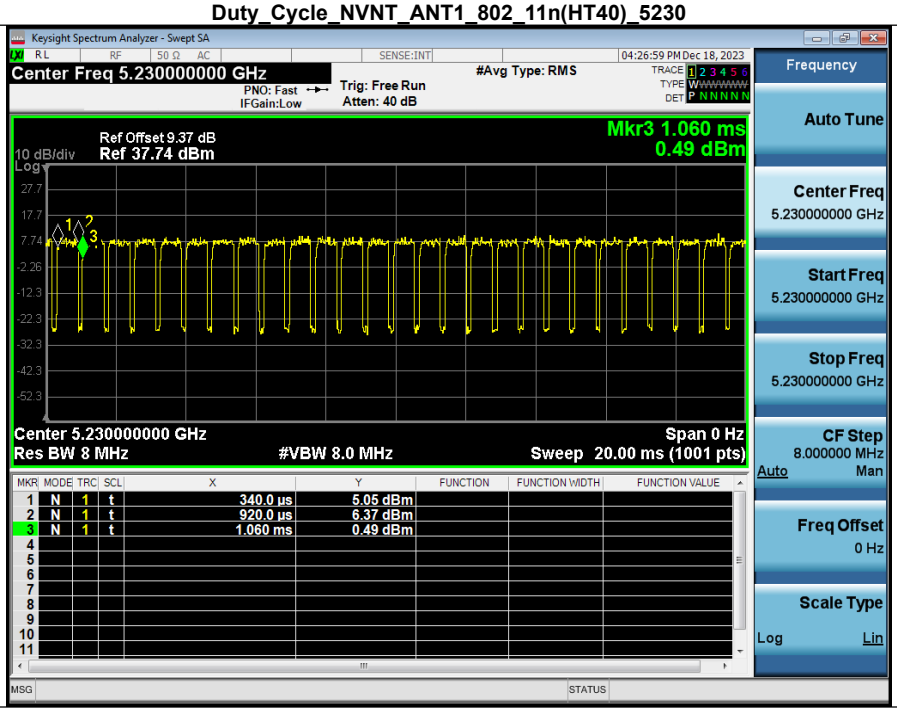
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5240



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5190



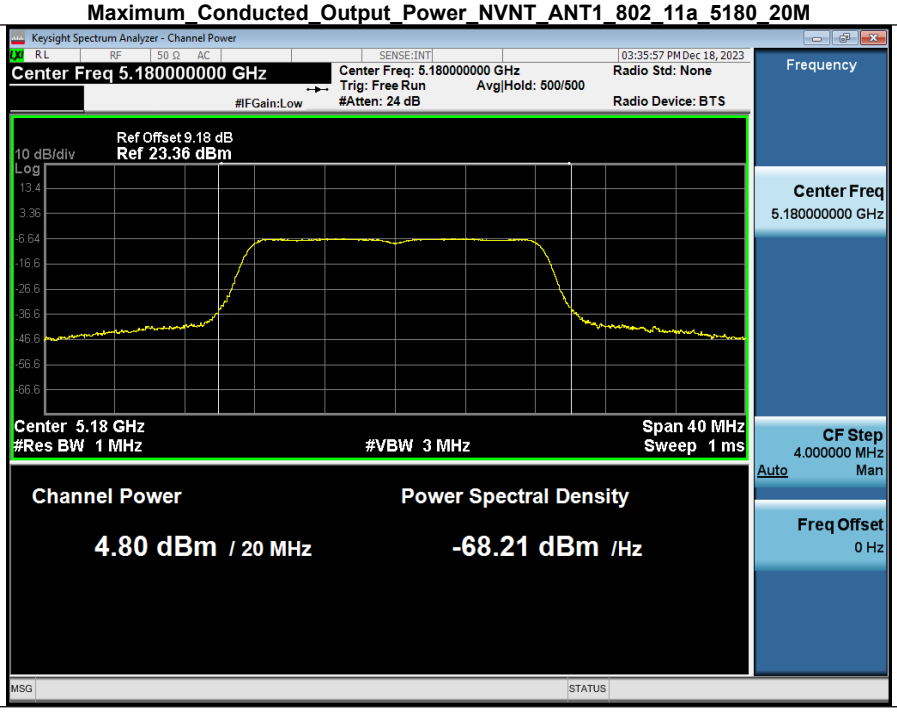
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5230



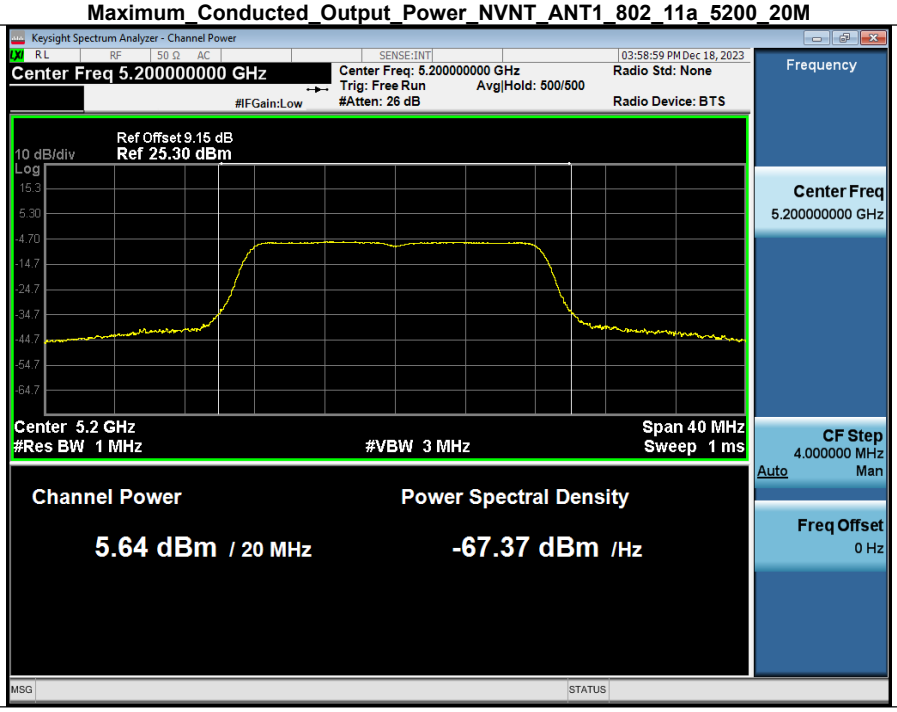
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	4.80	0.48	5.28	24	Pass
NVNT	ANT1	802.11a	5200.00	5.64	0.47	6.11	24	Pass
NVNT	ANT1	802.11a	5240.00	5.62	0.48	6.10	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5.90	0.48	6.38	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5.58	0.49	6.07	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	6.02	0.49	6.51	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5.18	0.91	6.09	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5.32	0.94	6.26	24	Pass

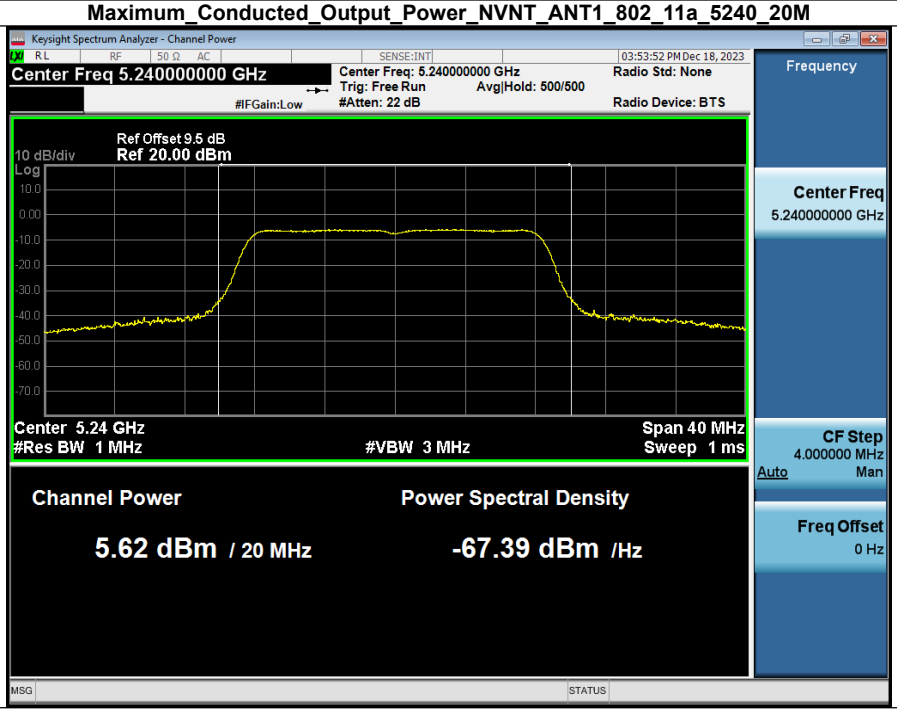
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5180_20M



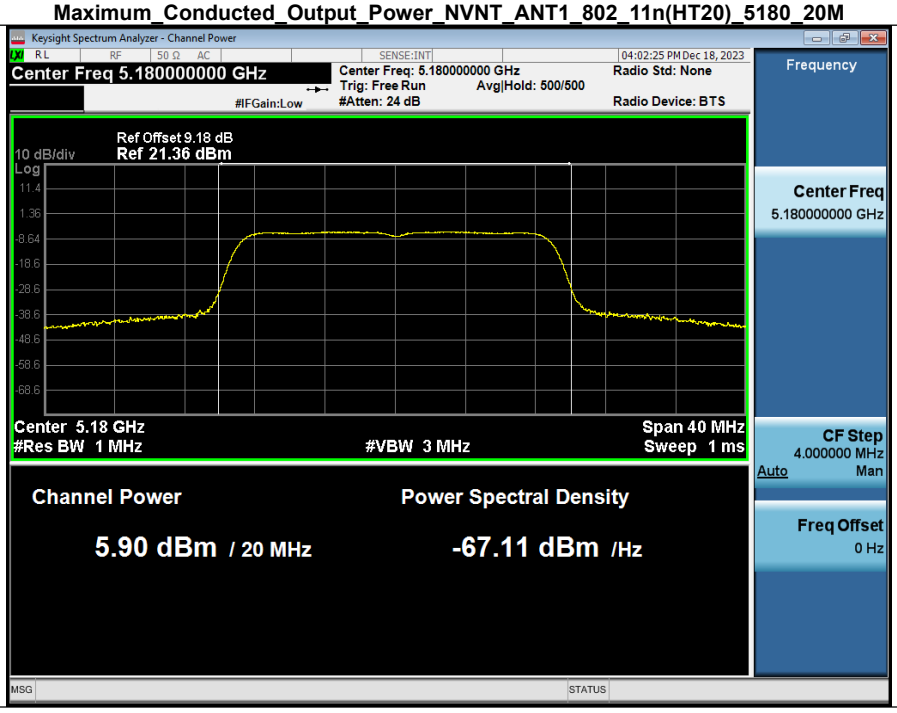
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5200_20M



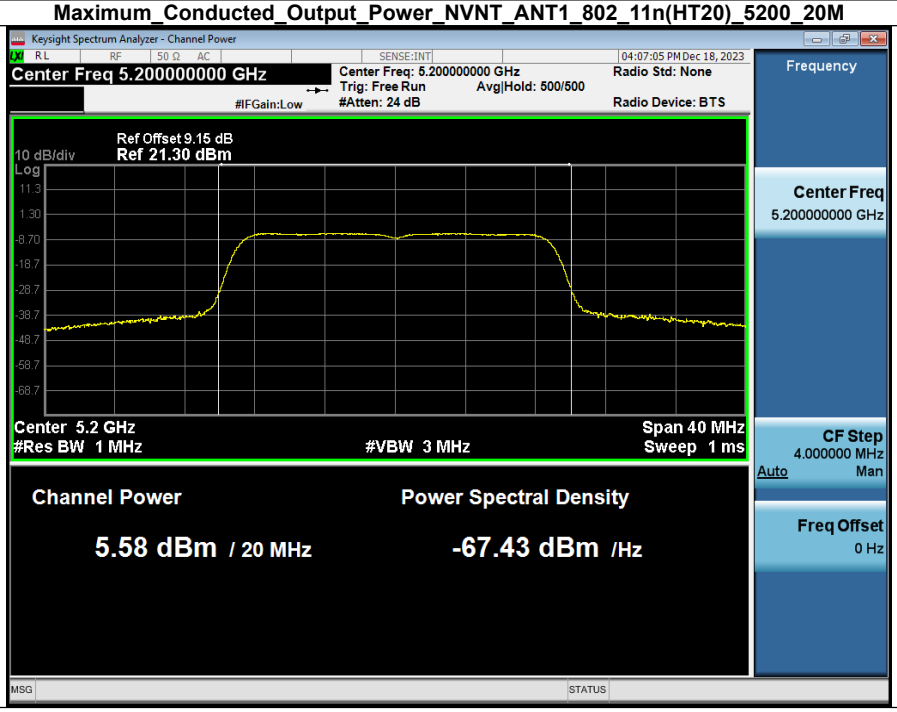
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5240_20M



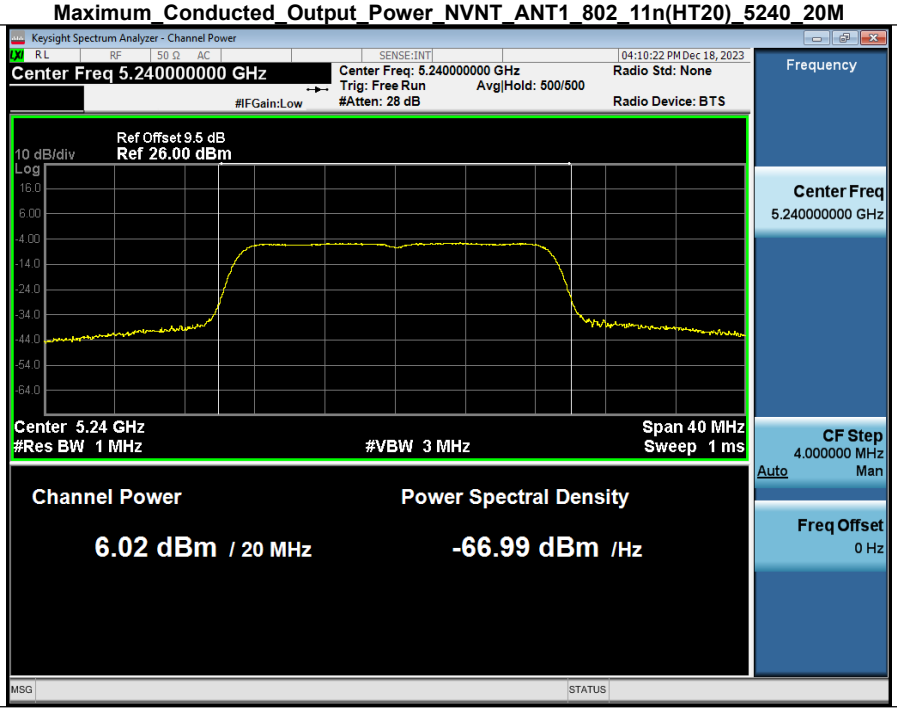
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5180_20M



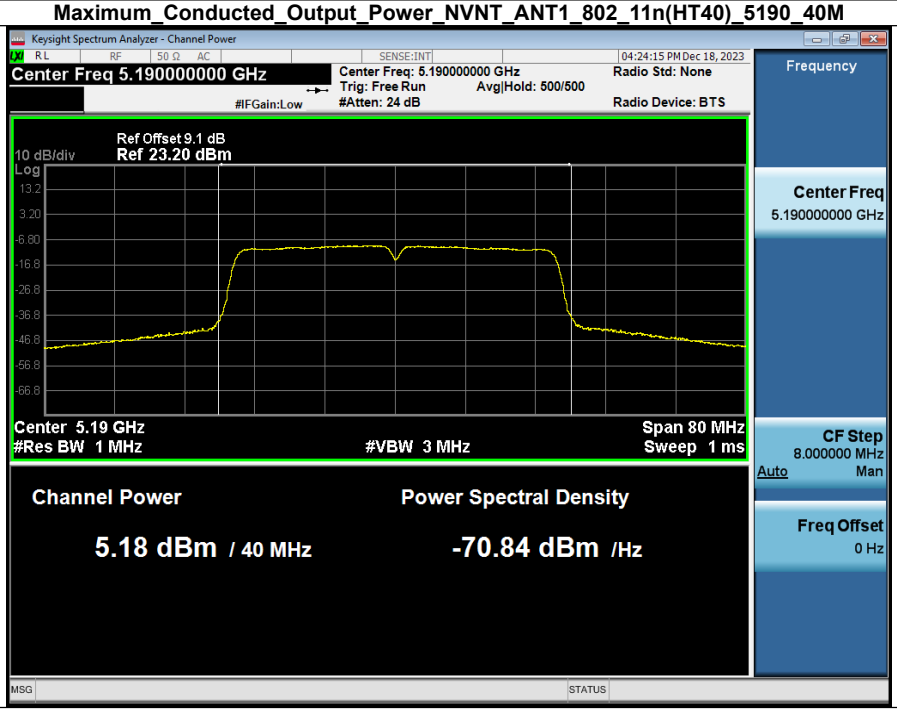
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5200_20M



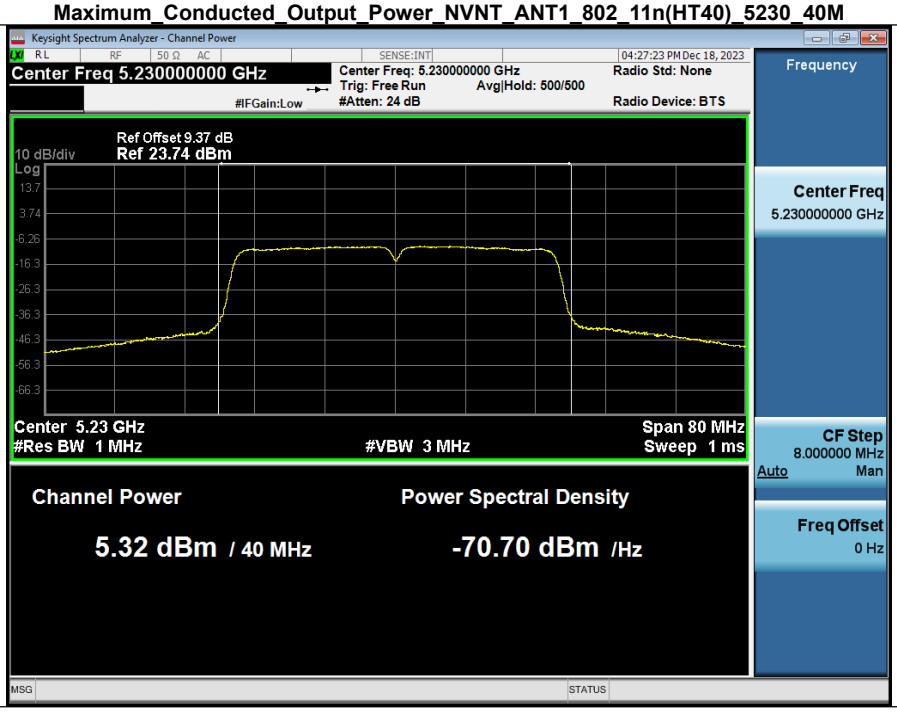
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5240_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5190_40M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5230_40M

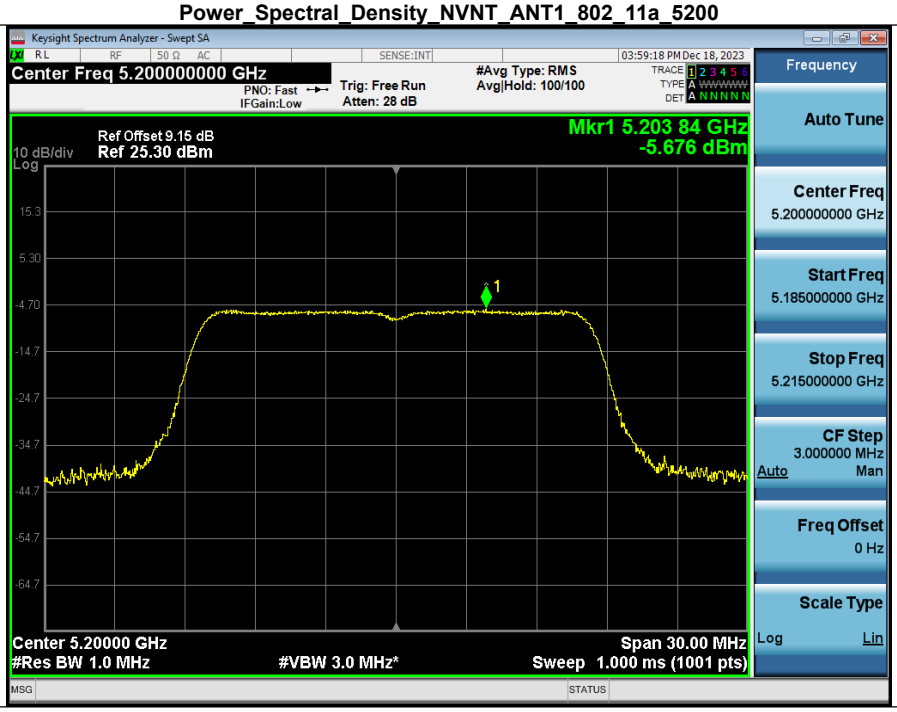


4. Power Spectral Density

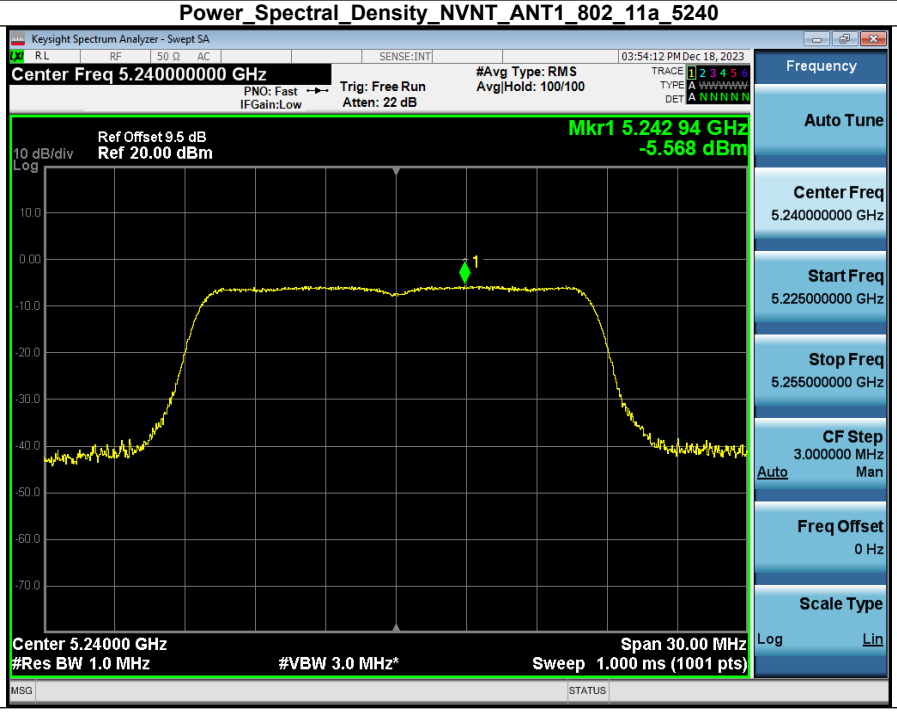
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-6.41	0.48	-5.93	11	Pass
NVNT	ANT1	802.11a	5200.00	-5.68	0.47	-5.21	11	Pass
NVNT	ANT1	802.11a	5240.00	-5.57	0.48	-5.09	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-5.51	0.48	-5.03	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-5.79	0.49	-5.30	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-5.40	0.49	-4.91	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-8.63	0.91	-7.72	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-8.68	0.94	-7.74	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5180

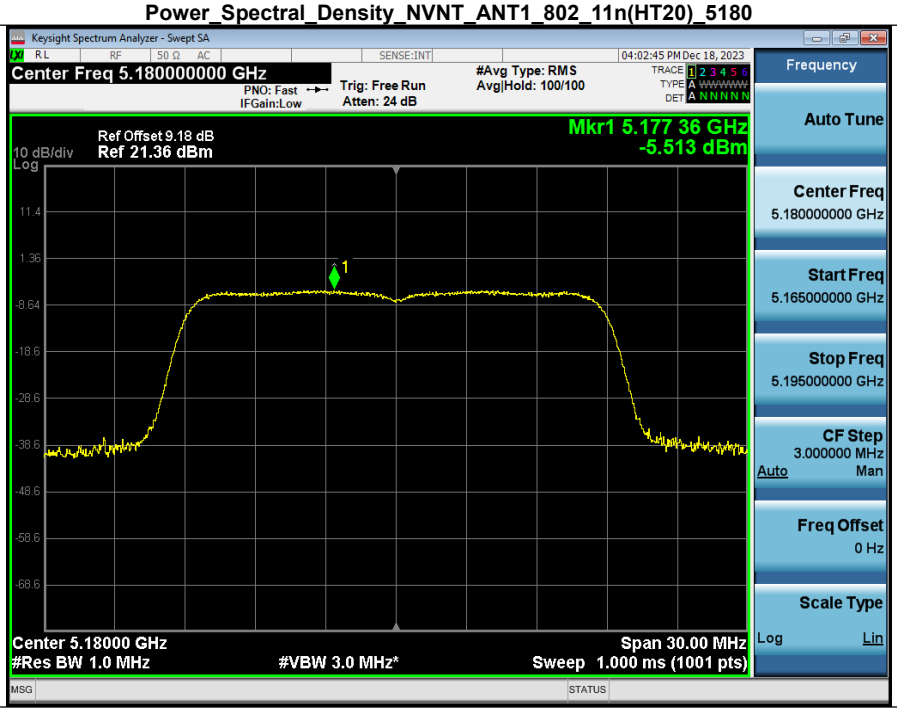
Power_Spectral_Density_NVNT_ANT1_802_11a_5200



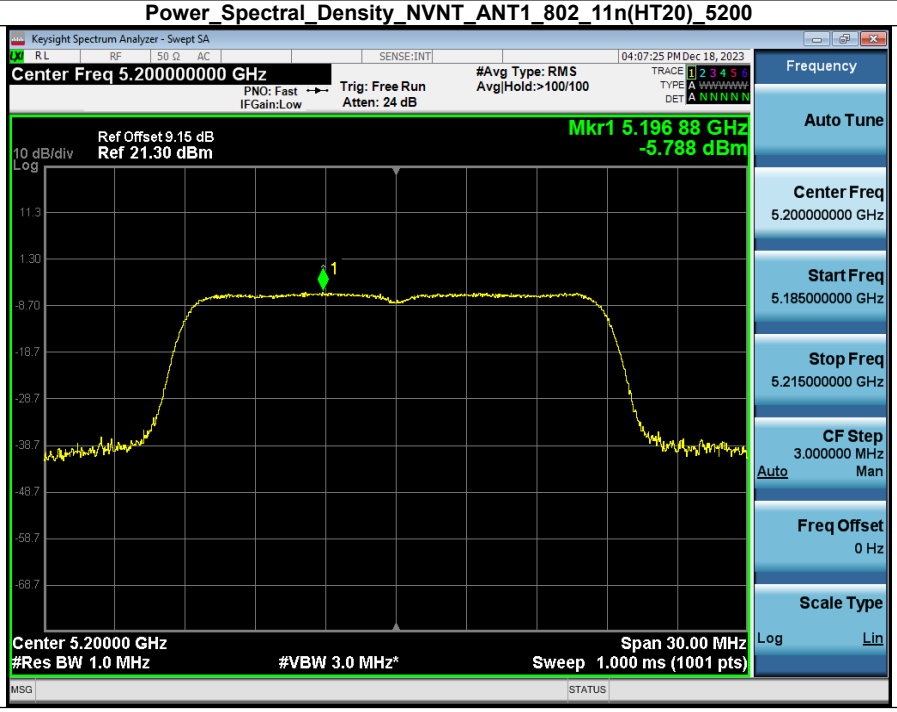
Power_Spectral_Density_NVNT_ANT1_802_11a_5240



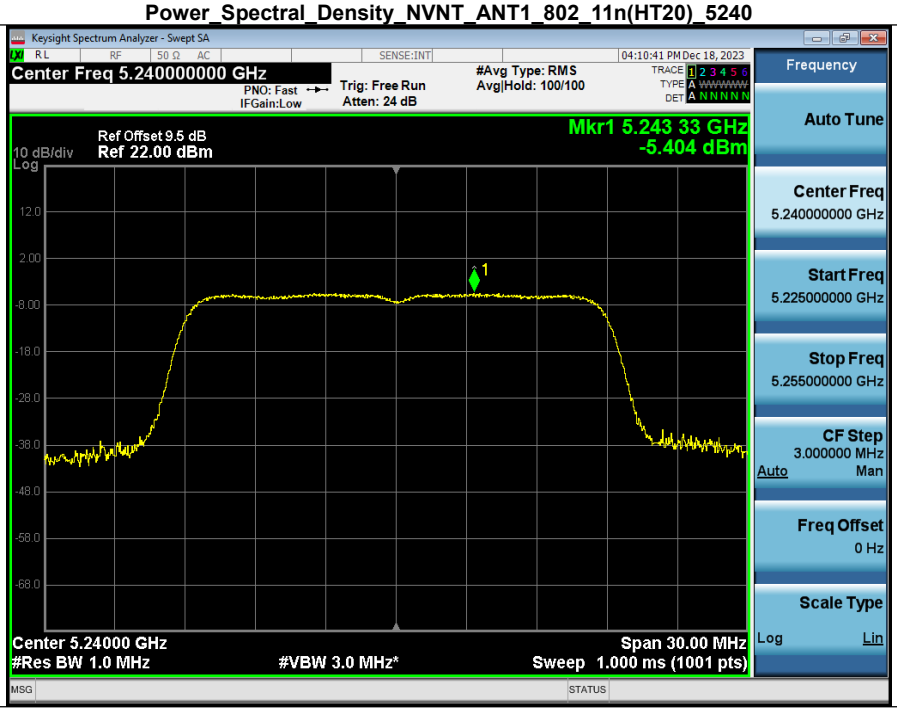
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180



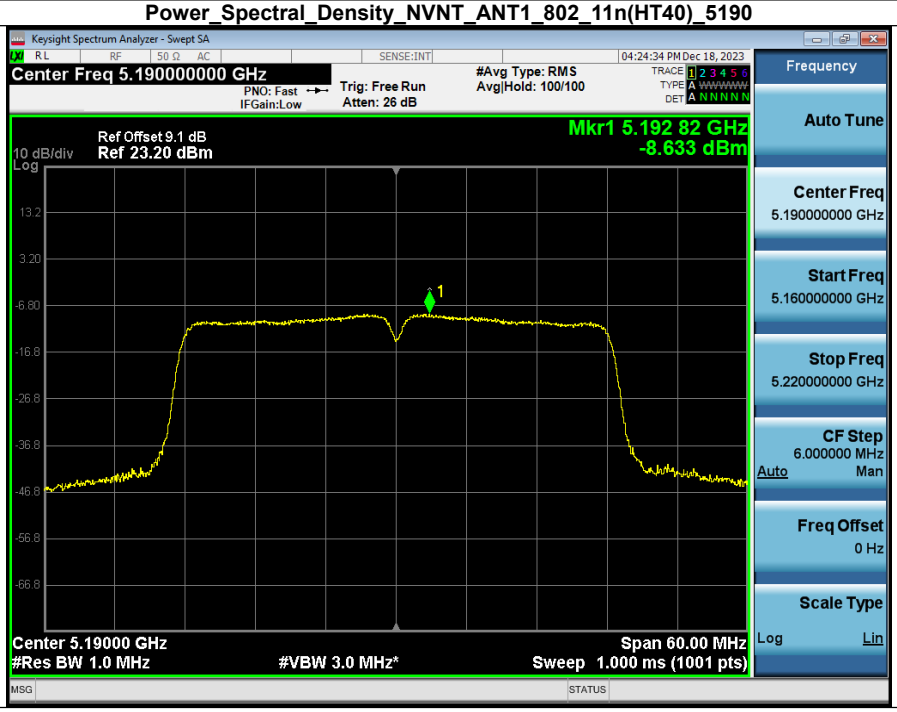
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



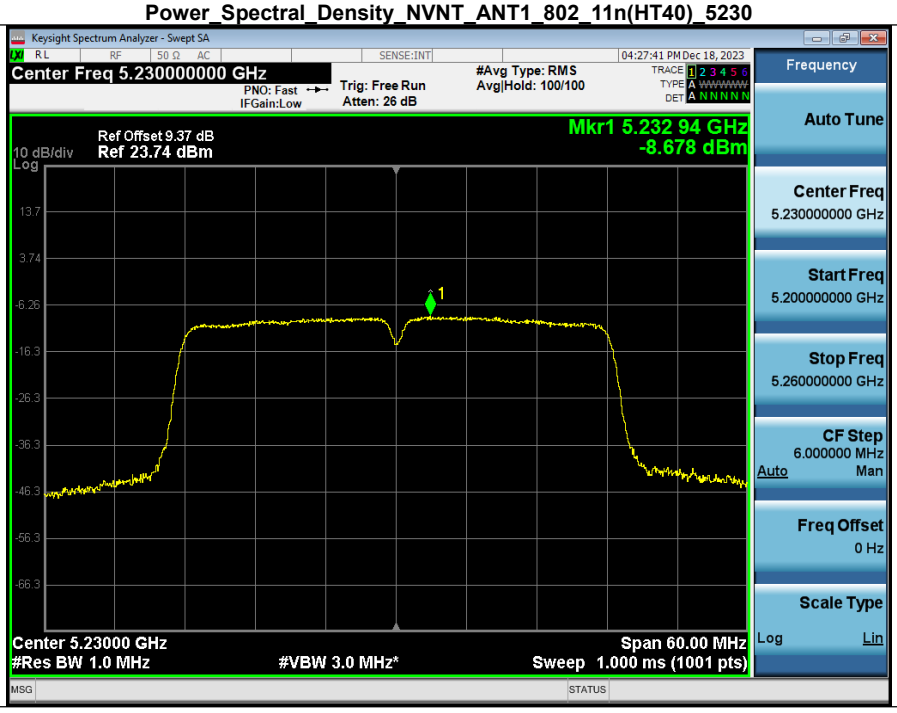
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190



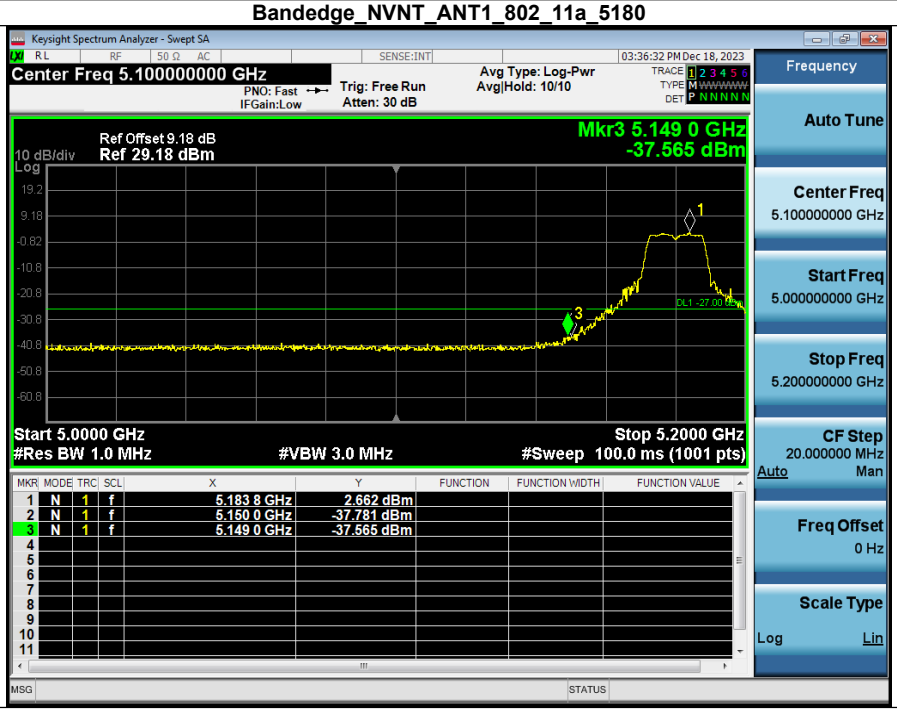
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



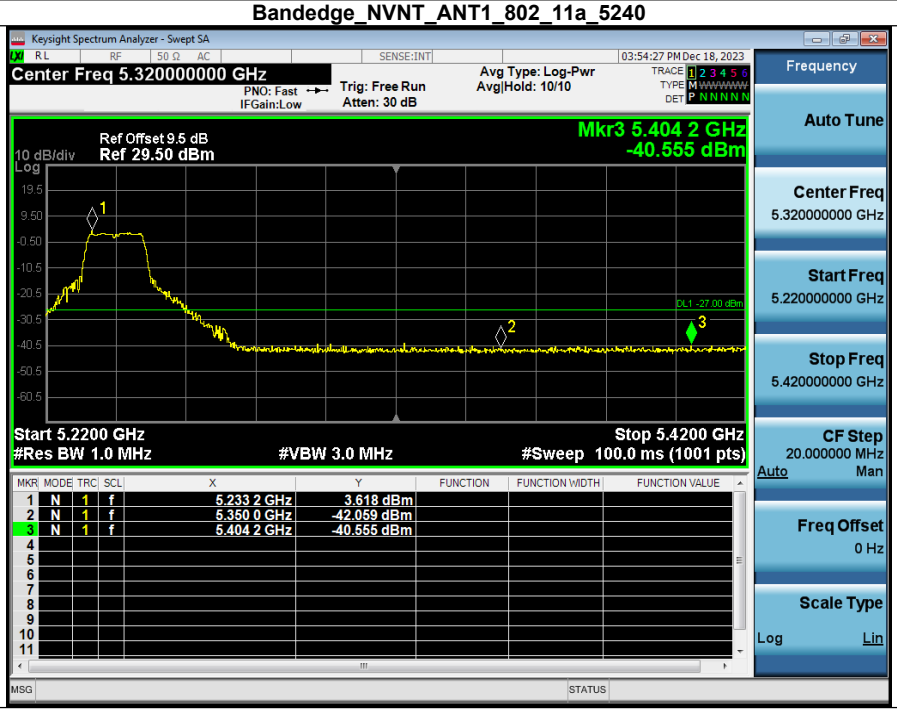
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5149.00	-37.56	-27	Pass
NVNT	ANT1	802.11a	5240.00	5404.20	-40.55	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5148.80	-32.91	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5386.00	-40.49	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5148.68	-33.51	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5402.99	-40.37	-27	Pass
Note:The test diagram has integrated antenna gain to Offset Settings.							

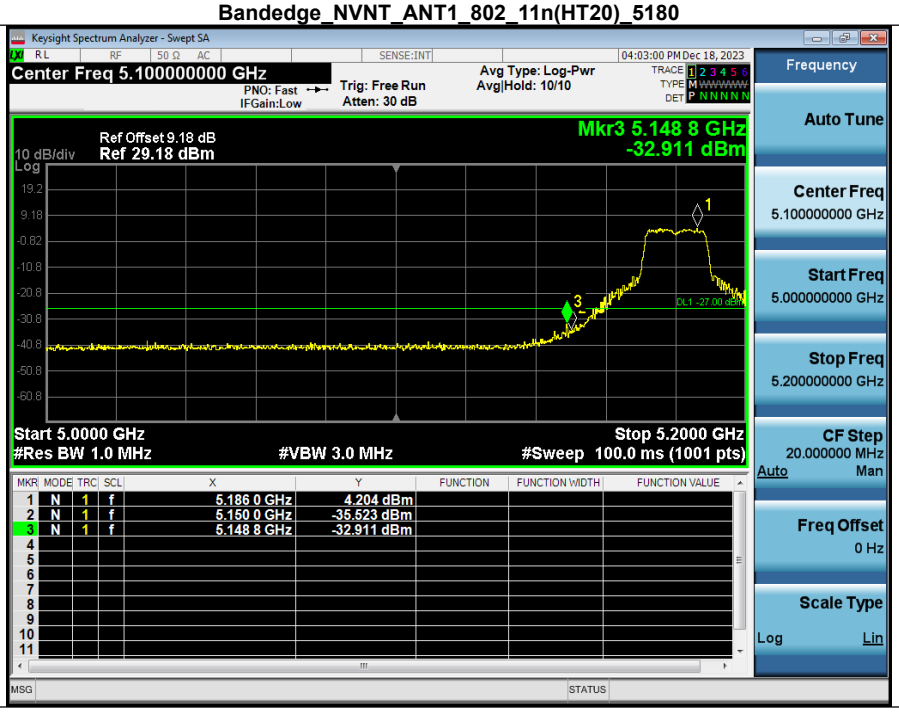
Bandedge_NVNT_ANT1_802_11a_5180



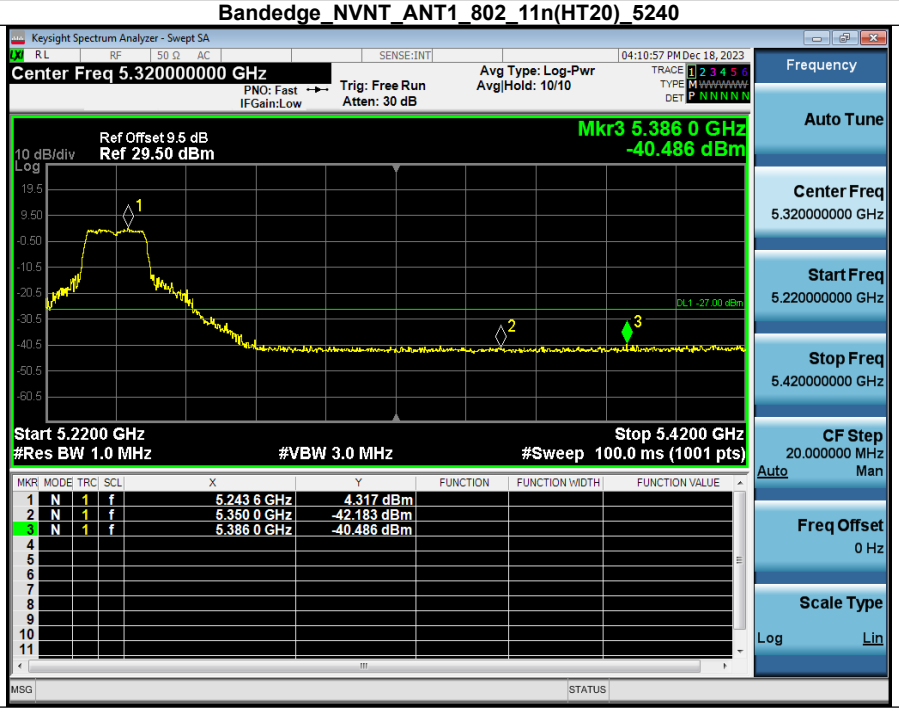
Bandedge_NVNT_ANT1_802_11a_5240



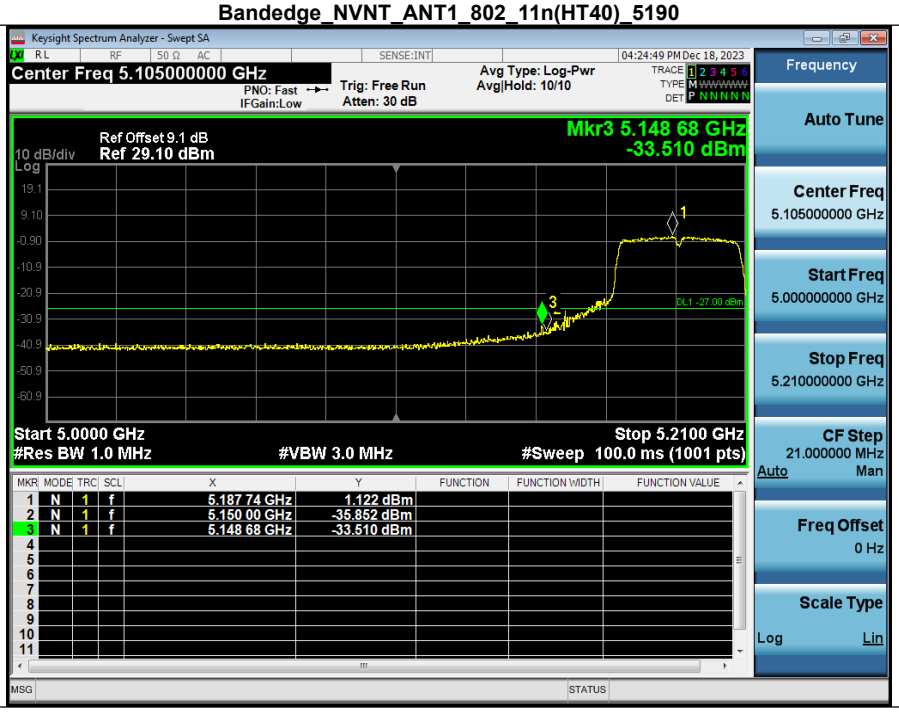
Bandedge_NVNT_ANT1_802_11n(HT20)_5180



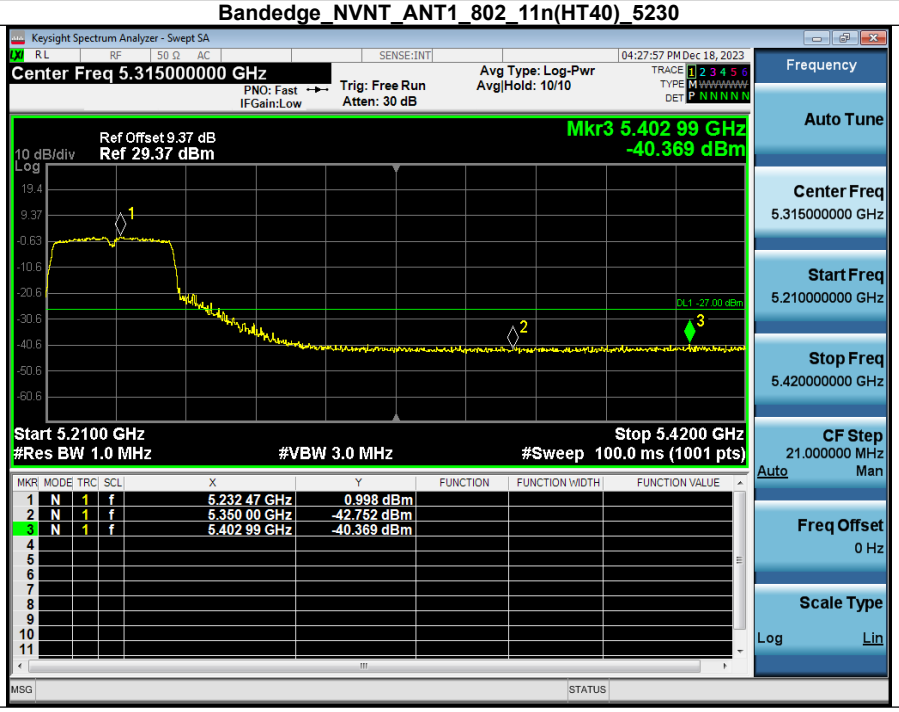
Bandedge_NVNT_ANT1_802_11n(HT20)_5240



Bandedge_NVNT_ANT1_802_11n(HT40)_5190



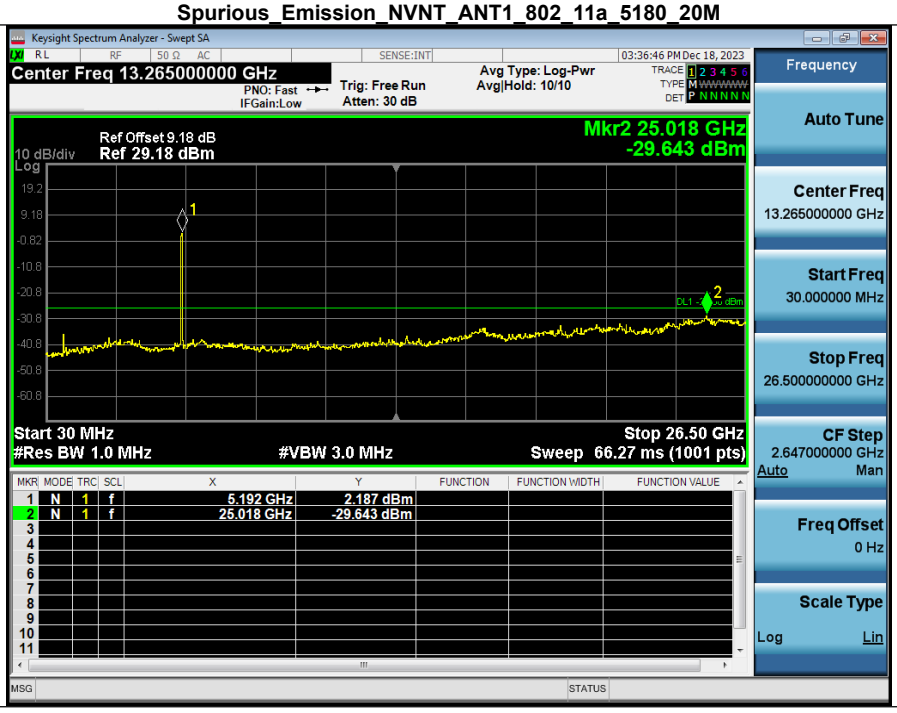
Bandedge_NVNT_ANT1_802_11n(HT40)_5230



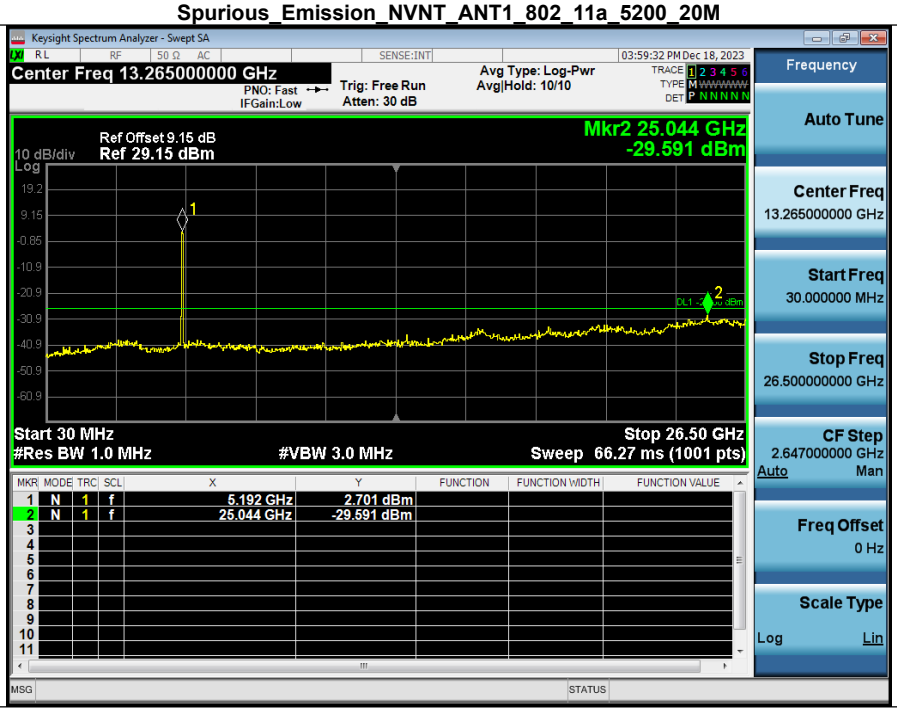
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	25017.68	-29.64	-27	Pass
NVNT	ANT1	802.11a	5200.00	25044.15	-29.59	-27	Pass
NVNT	ANT1	802.11a	5240.00	25017.68	-30.09	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	25785.31	-30.21	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	25044.15	-29.46	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	24911.80	-30.01	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	24911.80	-30.65	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	24991.21	-29.75	-27	Pass

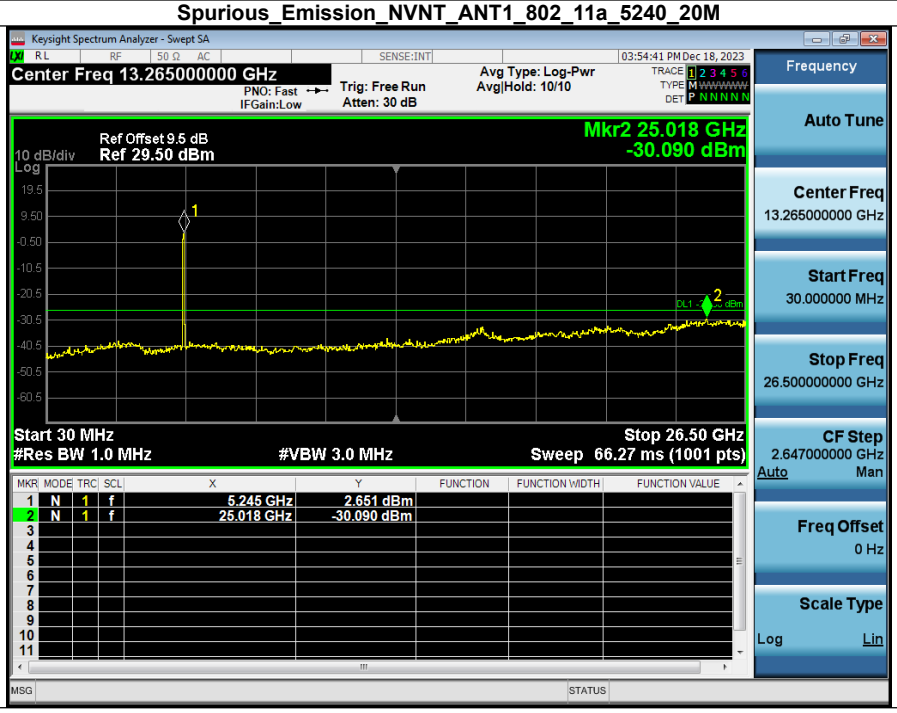
Spurious_Emission_NVNT_ANT1_802_11a_5180_20M



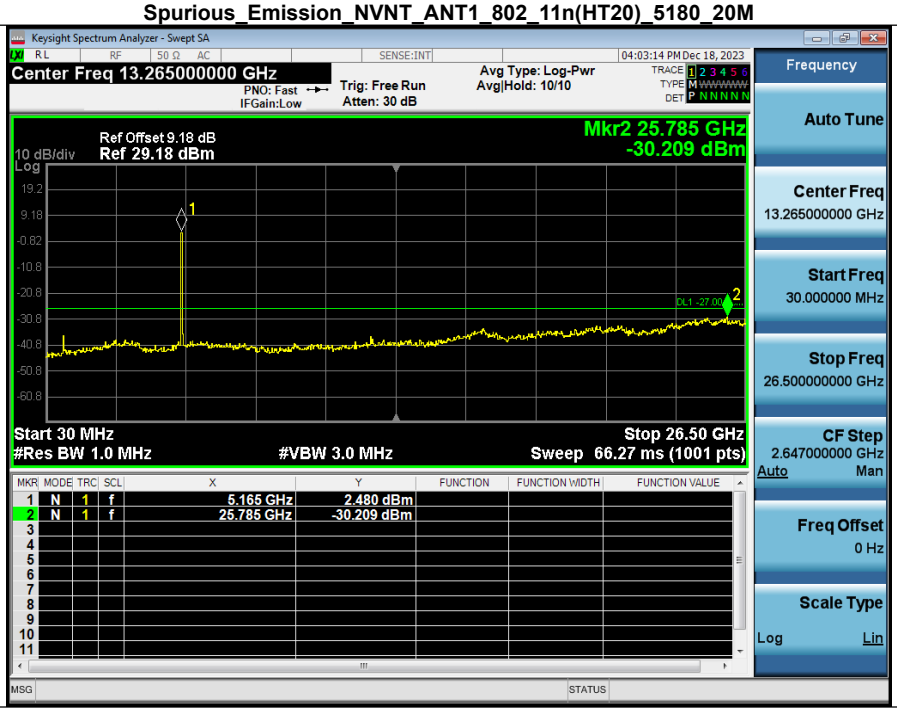
Spurious_Emission_NVNT_ANT1_802_11a_5200_20M



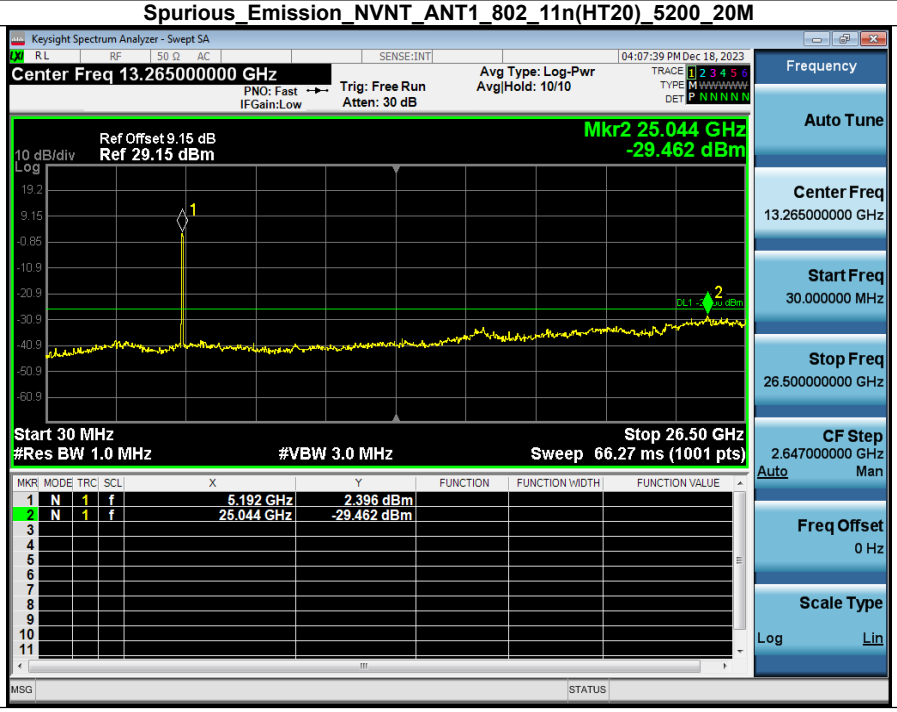
Spurious_Emission_NVNT_ANT1_802_11a_5240_20M



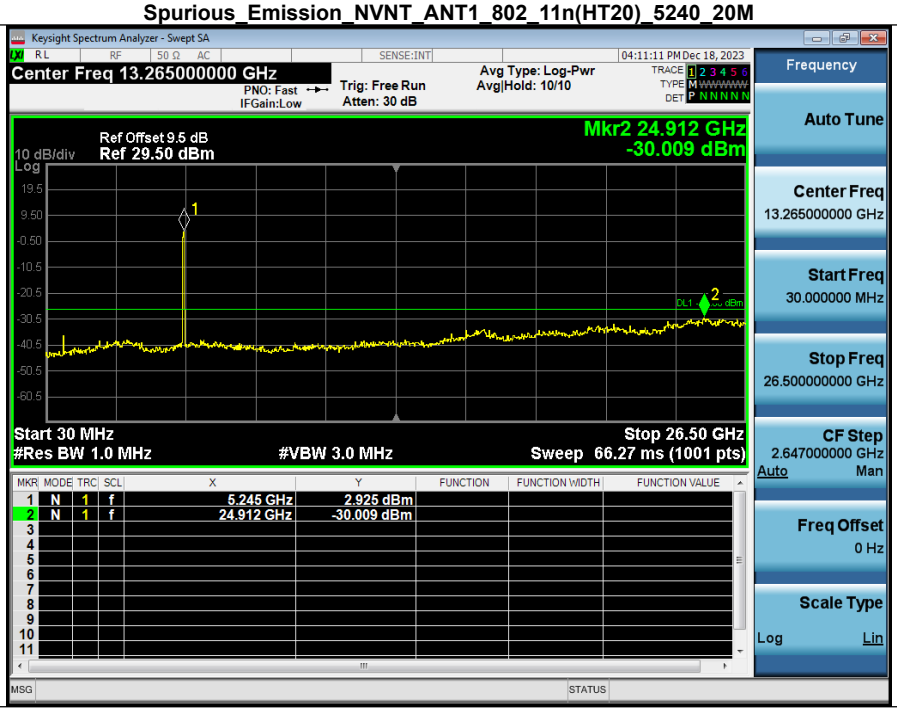
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5180_20M



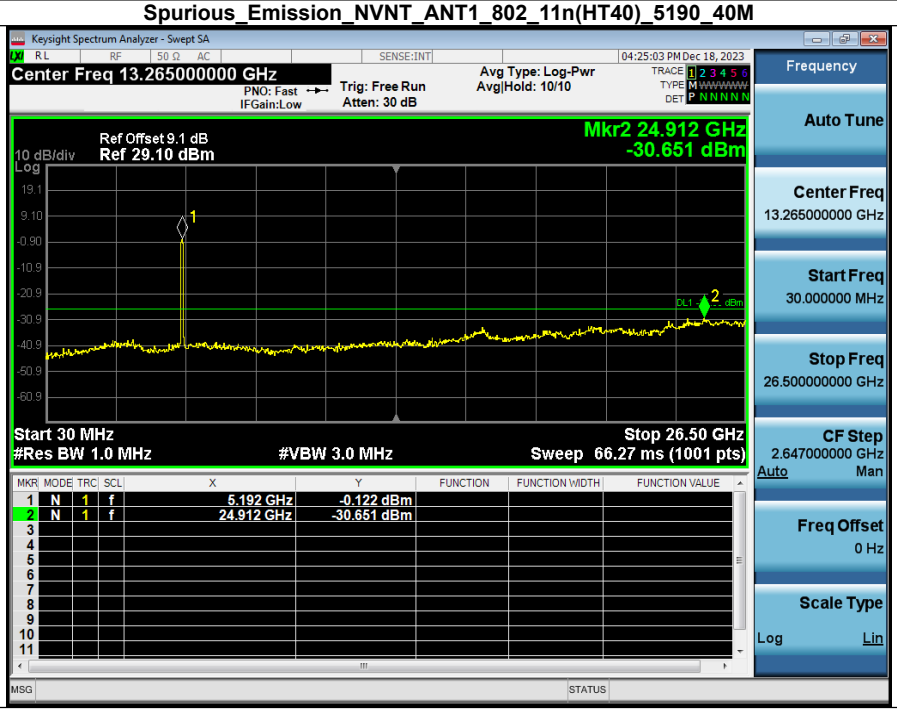
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5200_20M



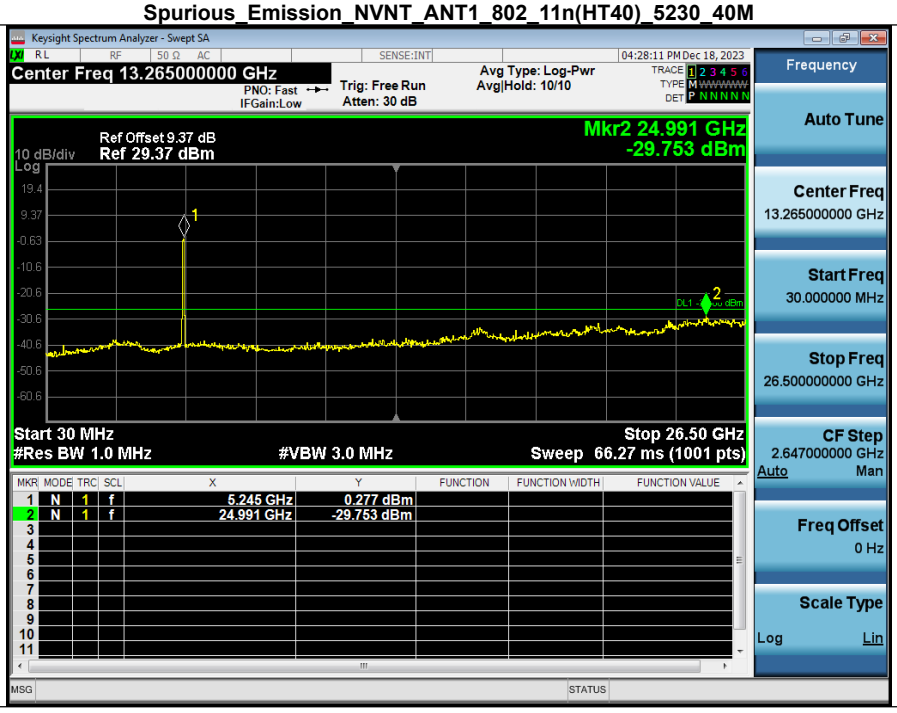
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5240_20M



Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5190_40M



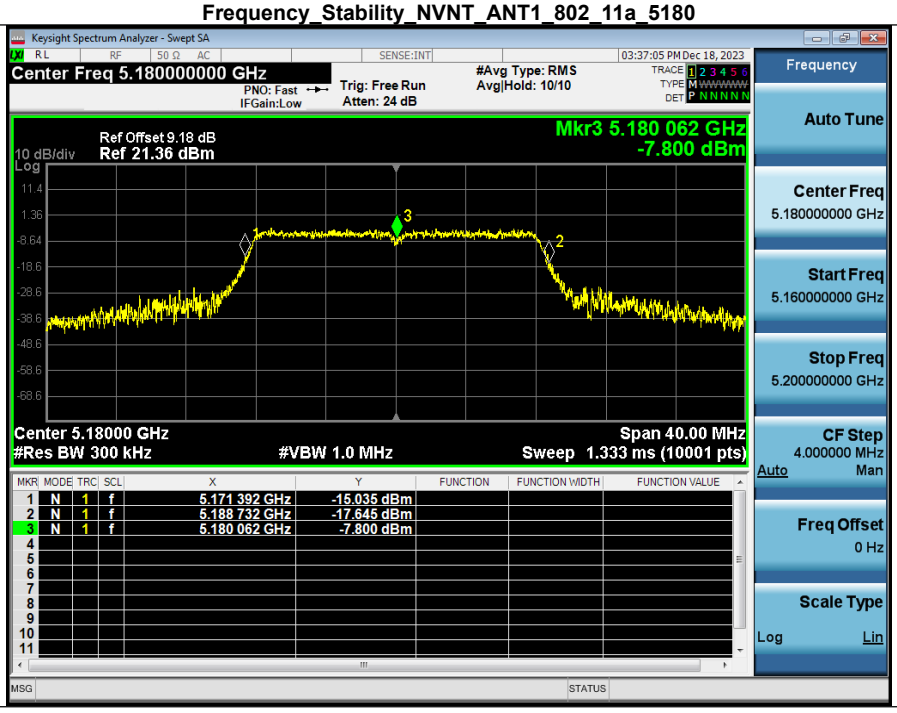
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5230_40M



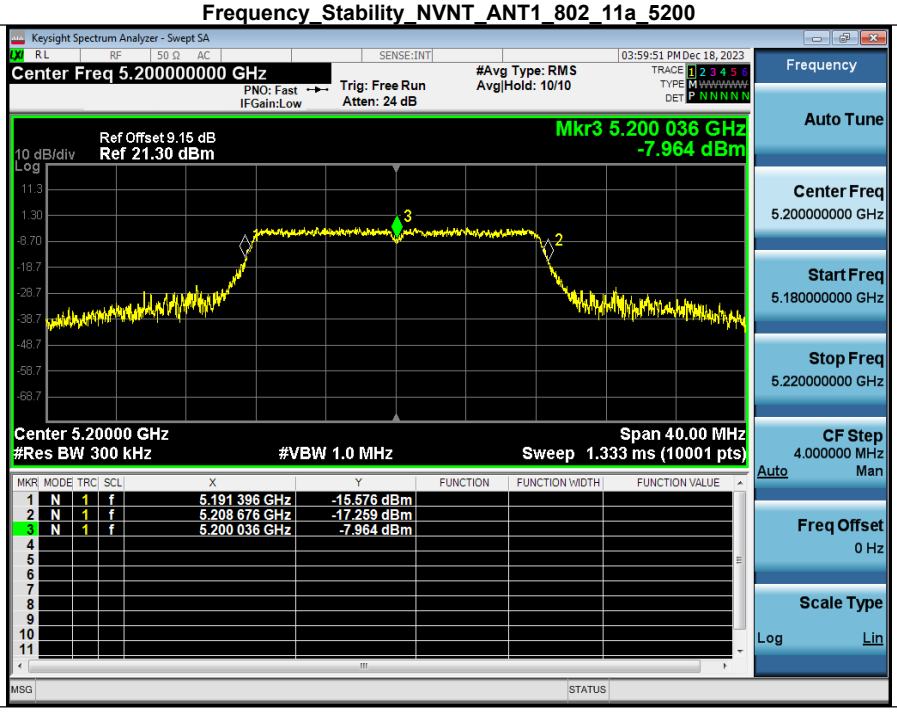
7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.062	5171.392	5188.732	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5200.036	5191.396	5208.676	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.088	5231.396	5248.780	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5180.046	5170.936	5189.156	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5200.036	5190.900	5209.172	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5240.050	5230.944	5249.156	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5190.052	5171.816	5208.288	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5230.064	5211.816	5248.312	5150~5250	Pass

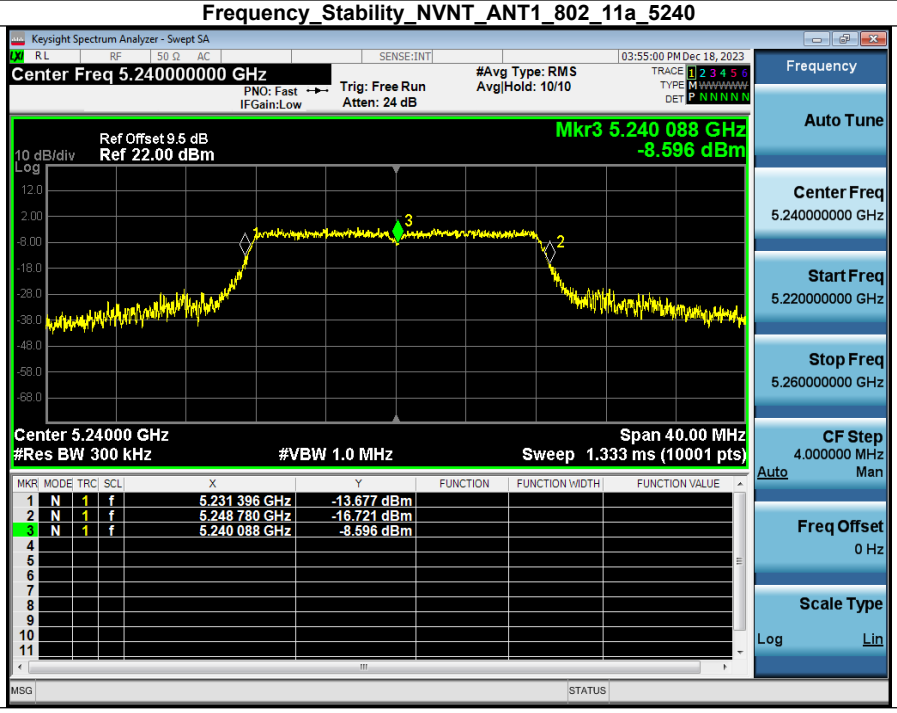
Frequency_Stability_NVNT_ANT1_802_11a_5180



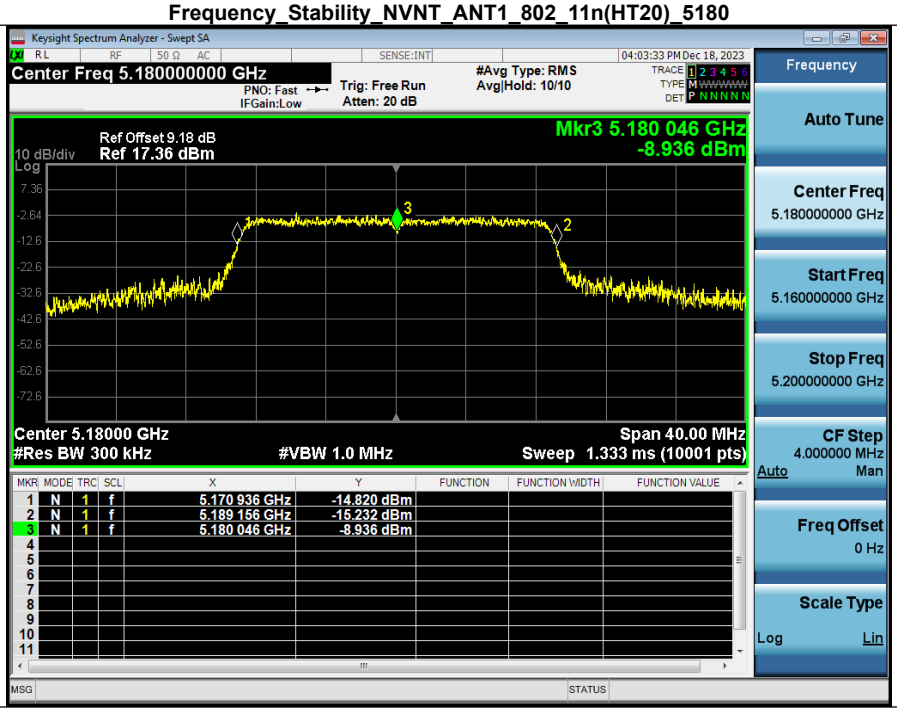
Frequency_Stability_NVNT_ANT1_802_11a_5200



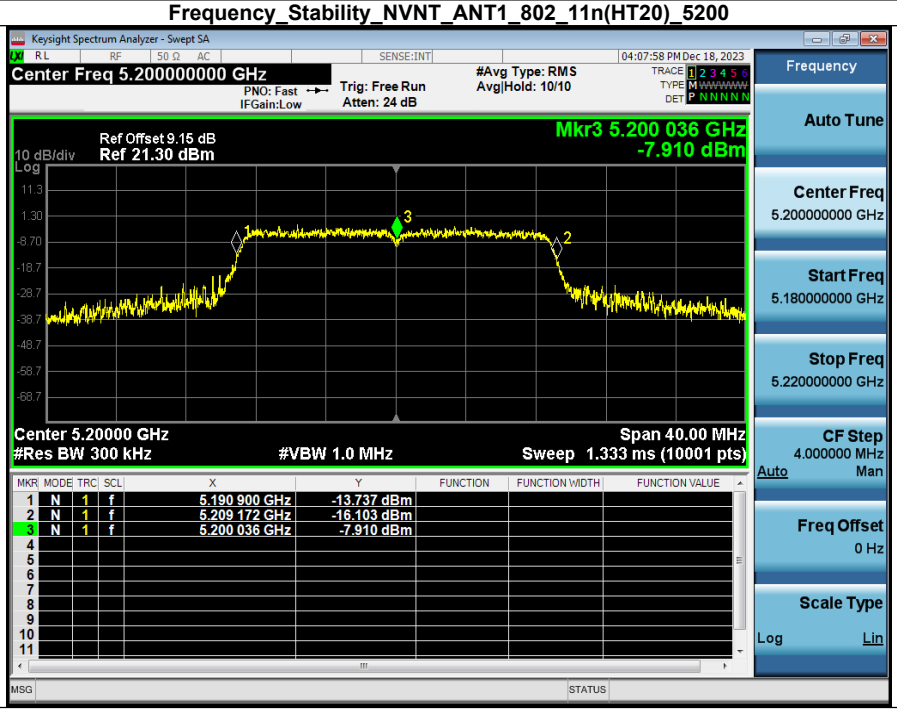
Frequency_Stability_NVNT_ANT1_802_11a_5240



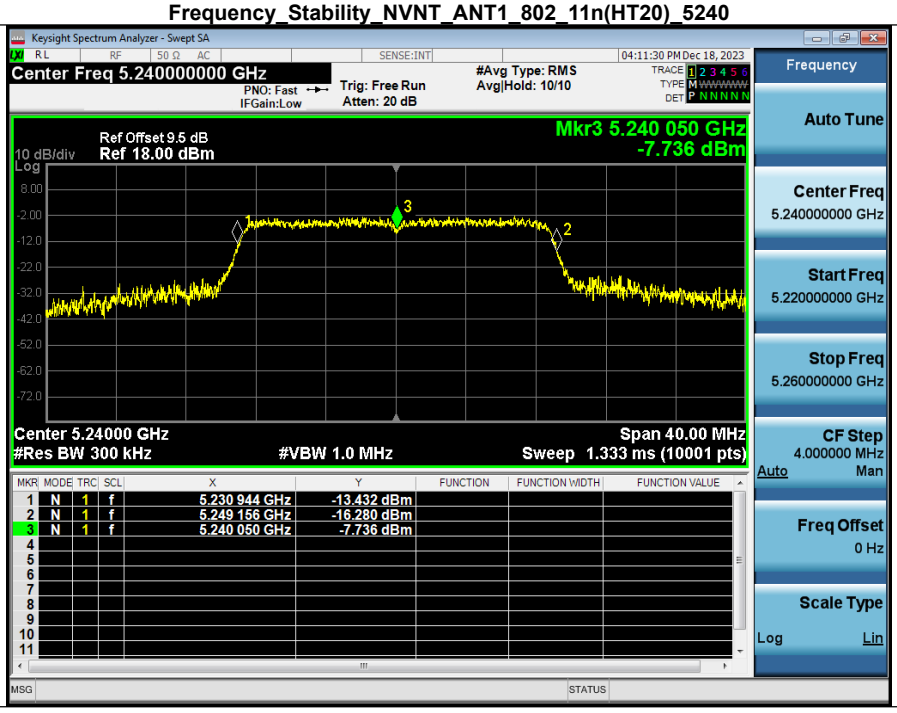
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5180



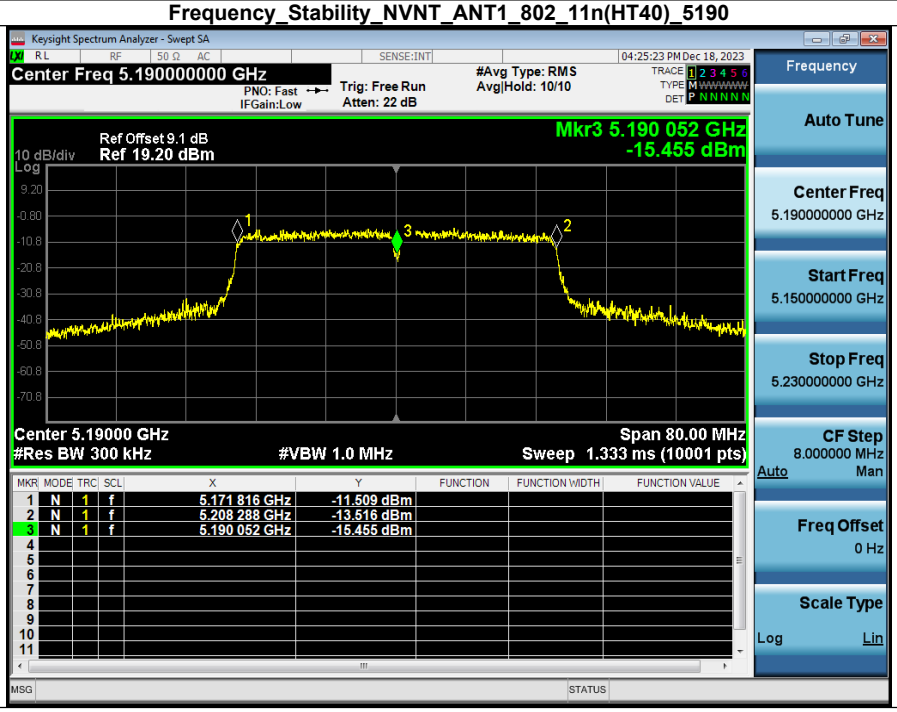
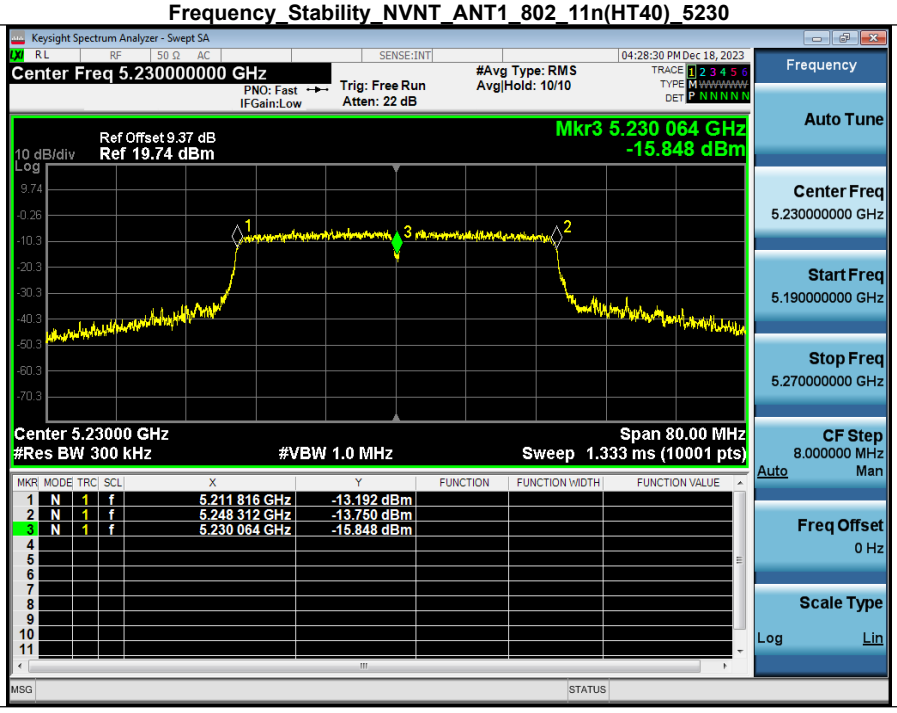
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5200



Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5240



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5190



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5230