

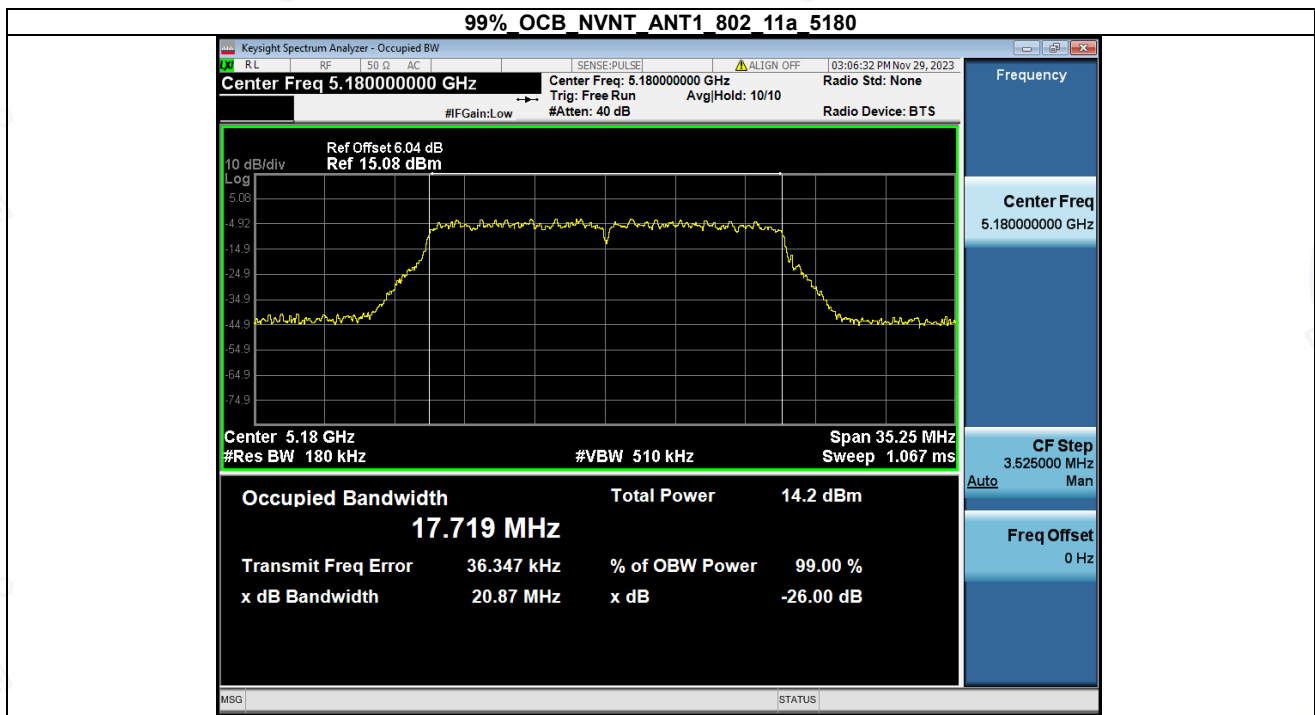
Appendix

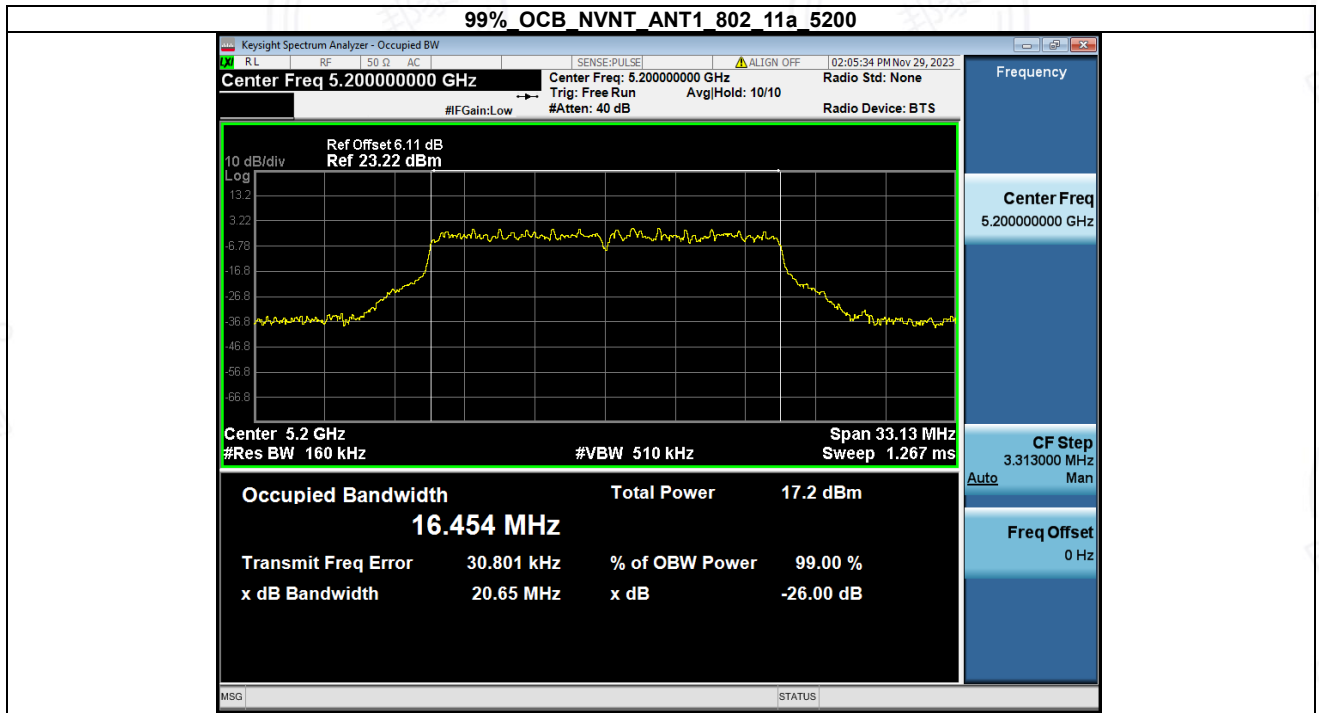
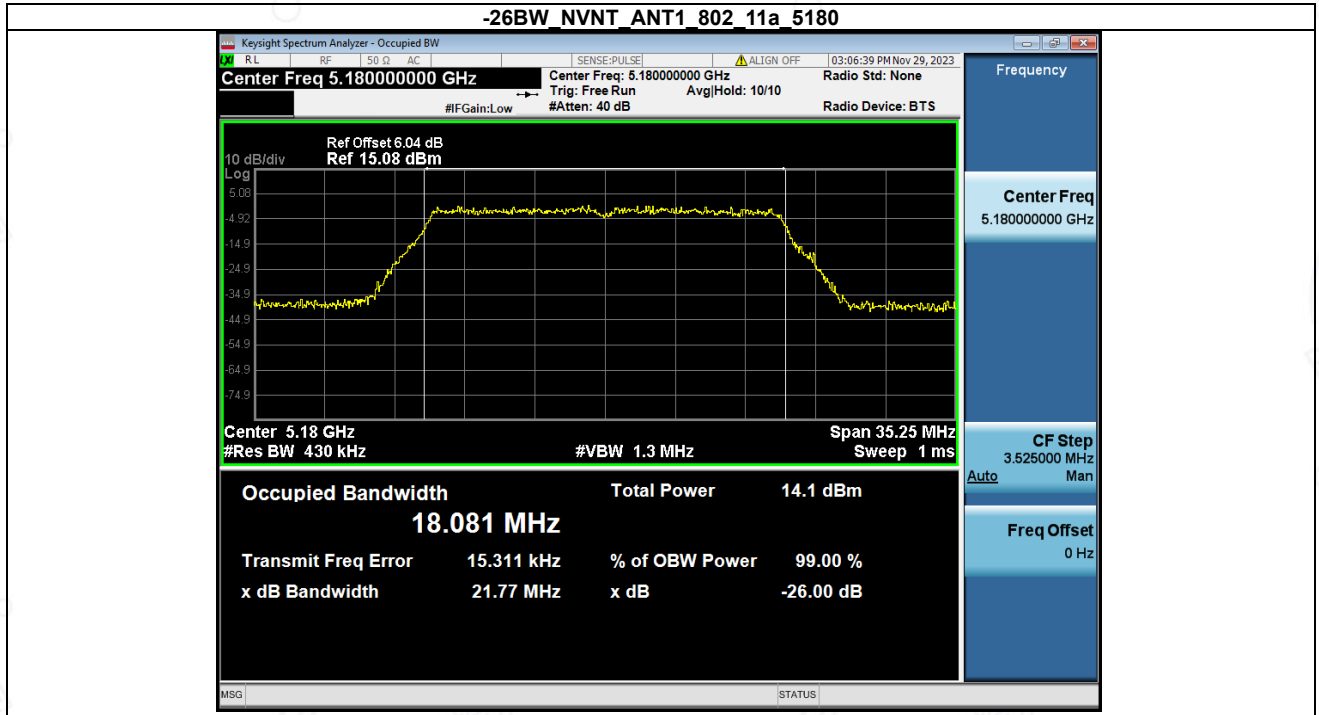
UNII-1 Wi-Fi 5G Test Data 5GWIFI

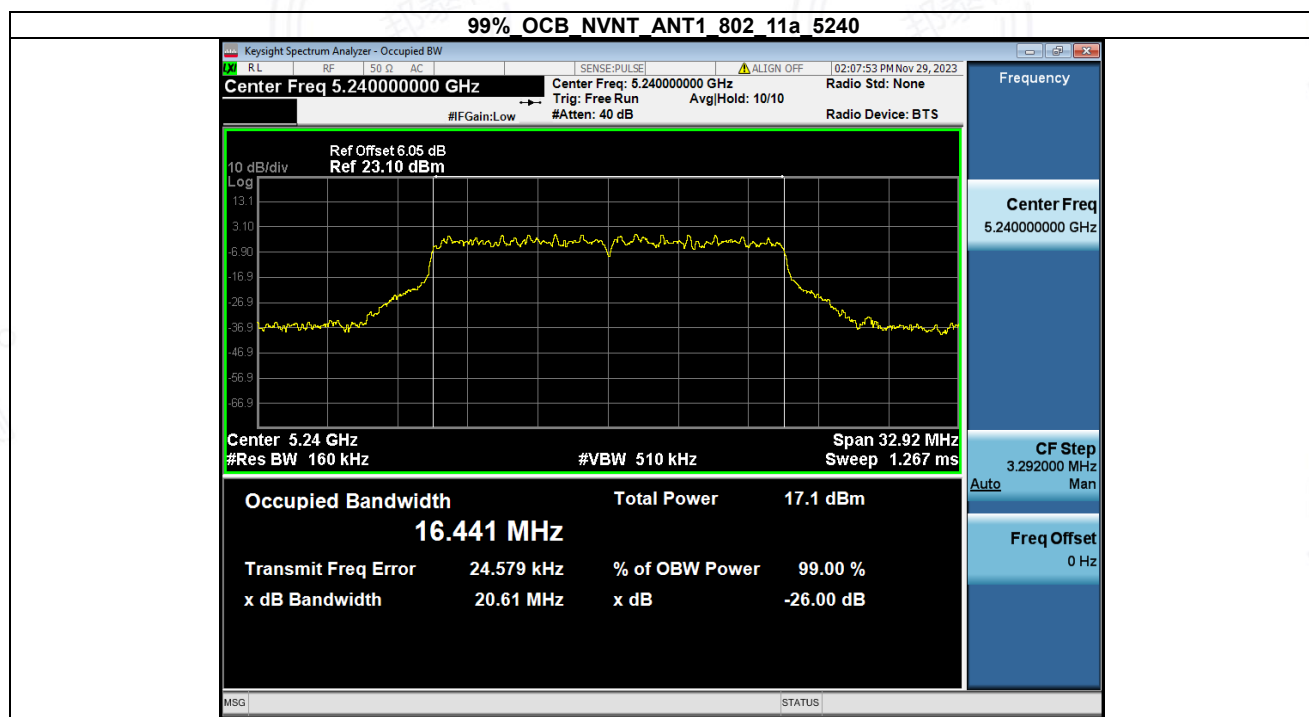
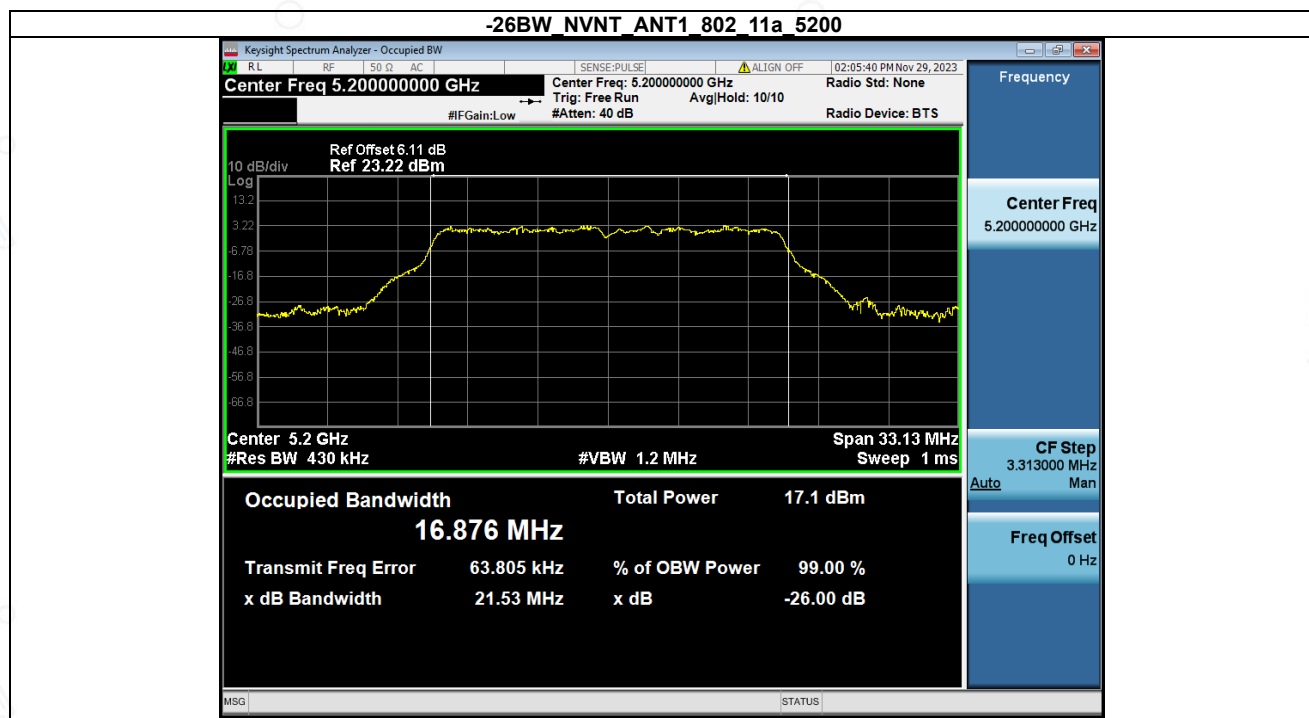


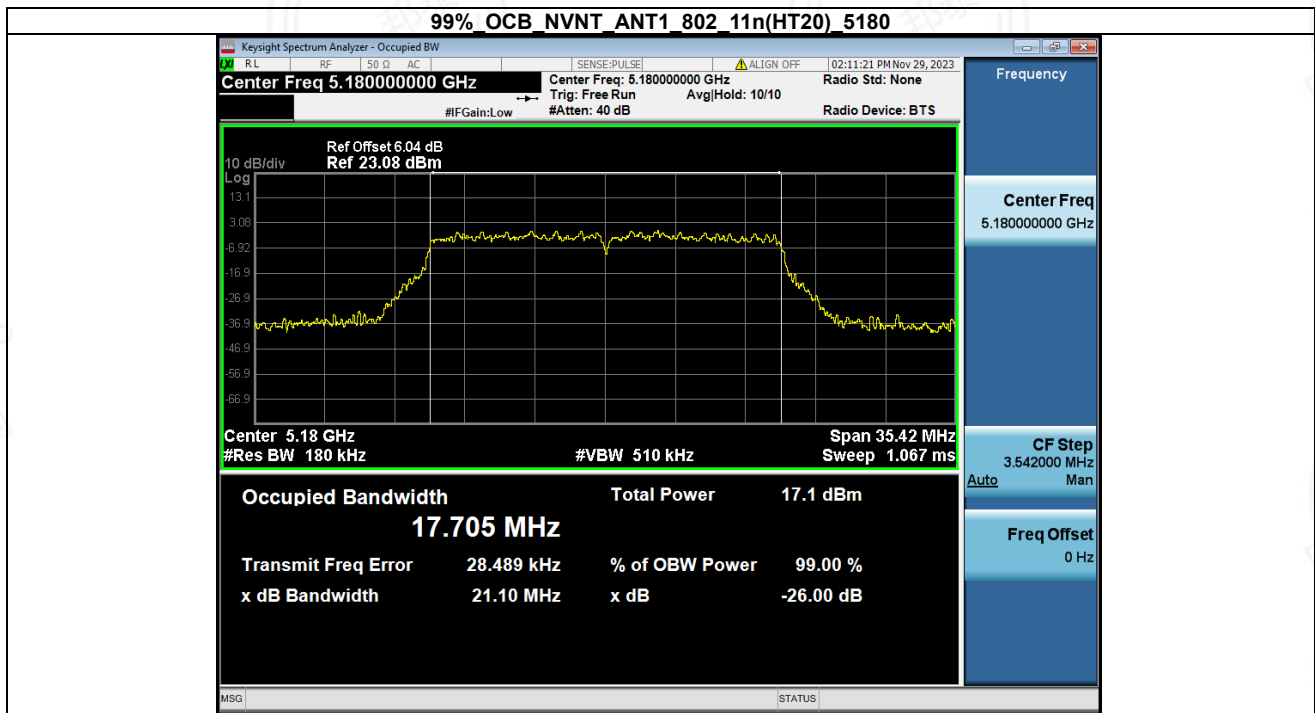
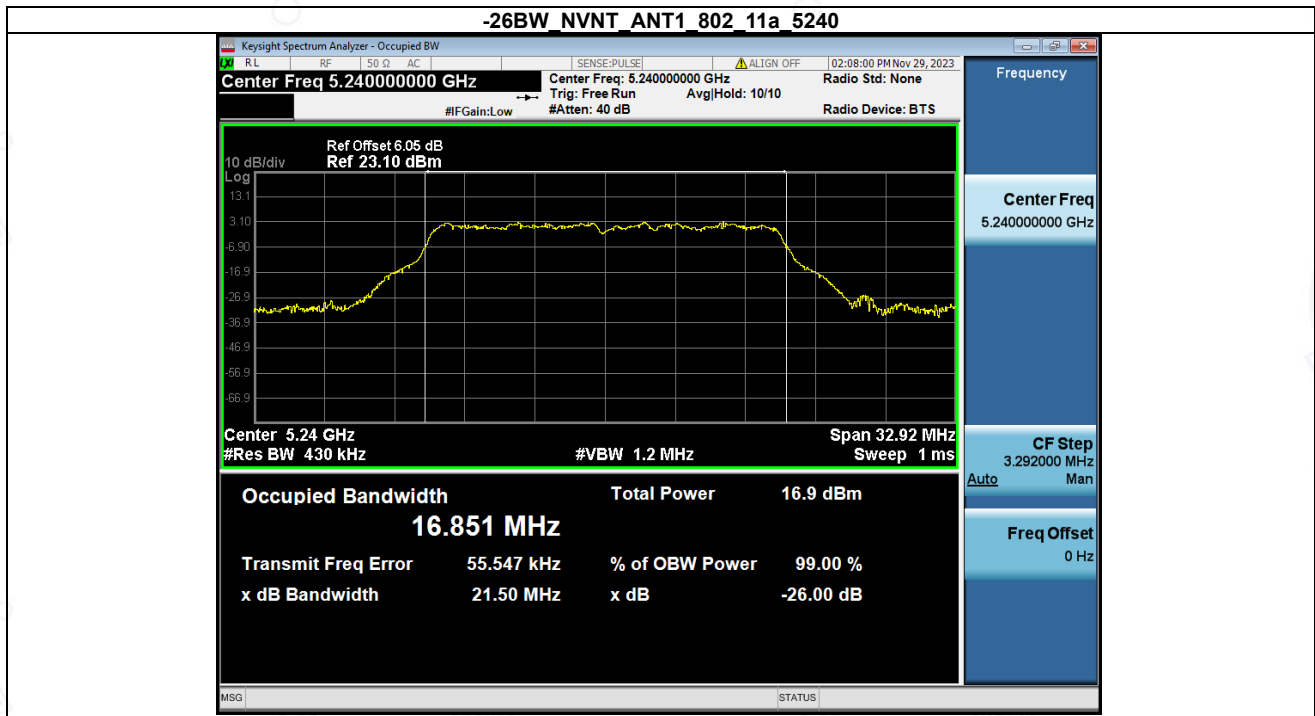
1. -26dB and 99% Emission Bandwidth

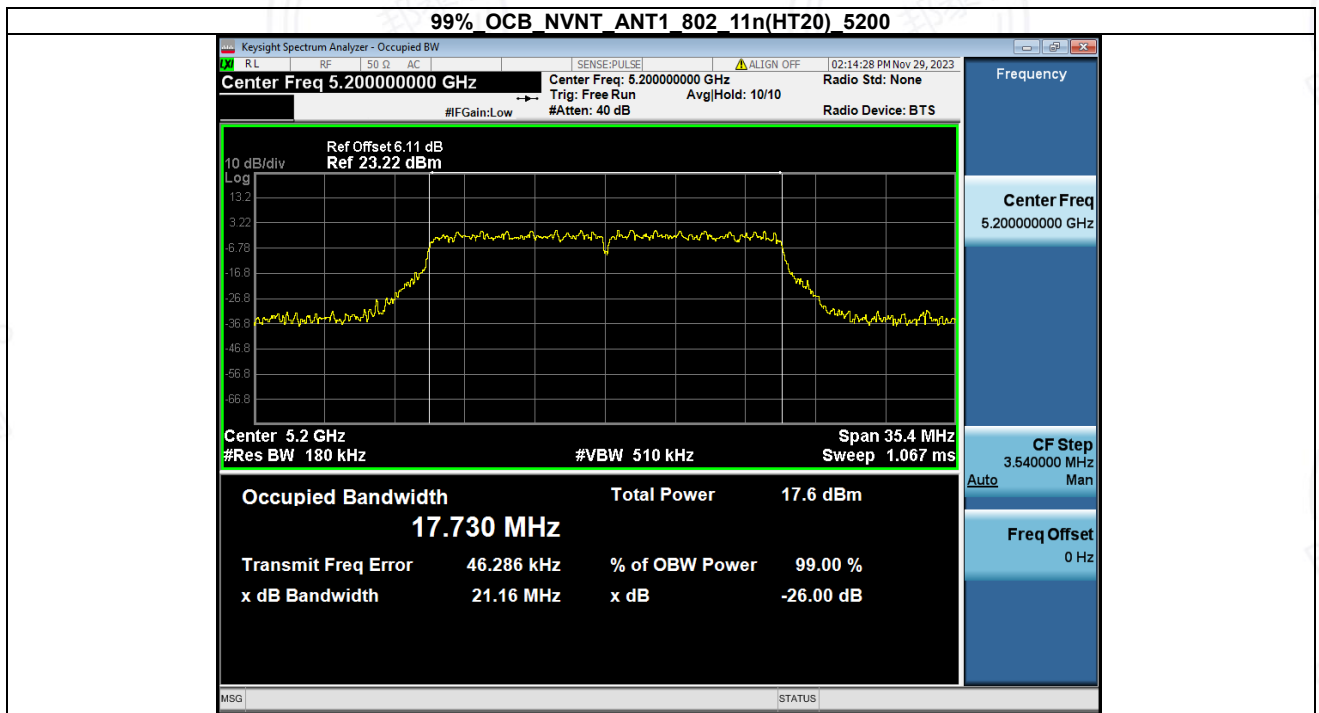
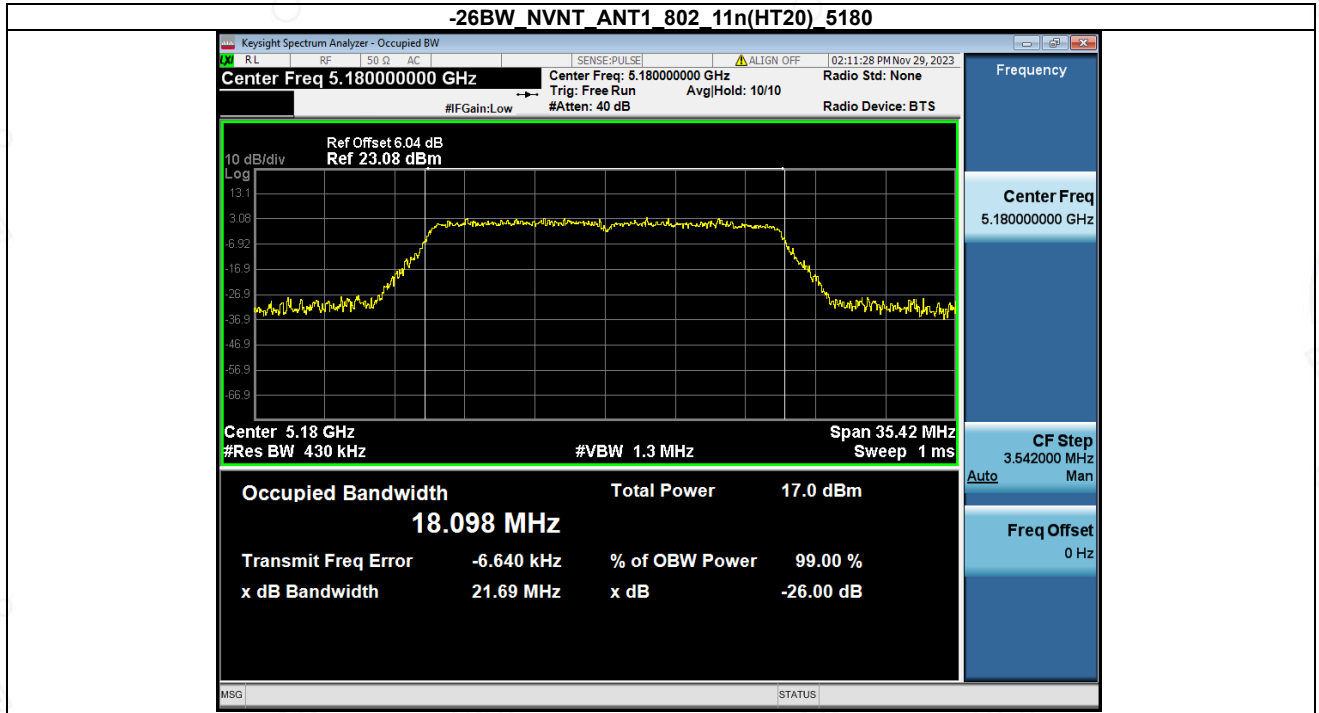
Condition	Antenna	Modulation	Frequency(MHz)	26dB Emission Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	21.77	17.72
NVNT	ANT1	802.11a	5200.00	21.53	16.45
NVNT	ANT1	802.11a	5240.00	21.50	16.44
NVNT	ANT1	802.11n(HT20)	5180.00	21.69	17.71
NVNT	ANT1	802.11n(HT20)	5200.00	21.63	17.73
NVNT	ANT1	802.11n(HT20)	5240.00	21.60	17.78
NVNT	ANT1	802.11ac(VHT20)	5180.00	21.62	17.73
NVNT	ANT1	802.11ac(VHT20)	5200.00	21.70	17.73
NVNT	ANT1	802.11ac(VHT20)	5240.00	21.77	17.68

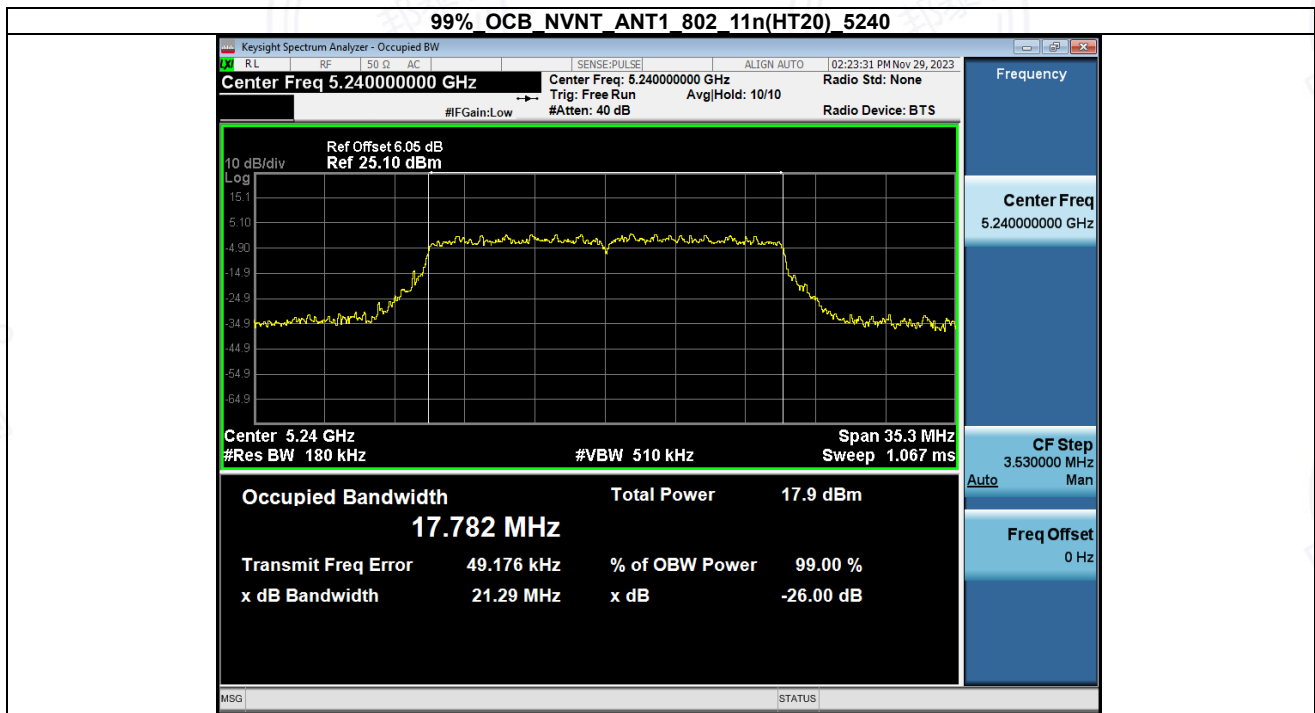
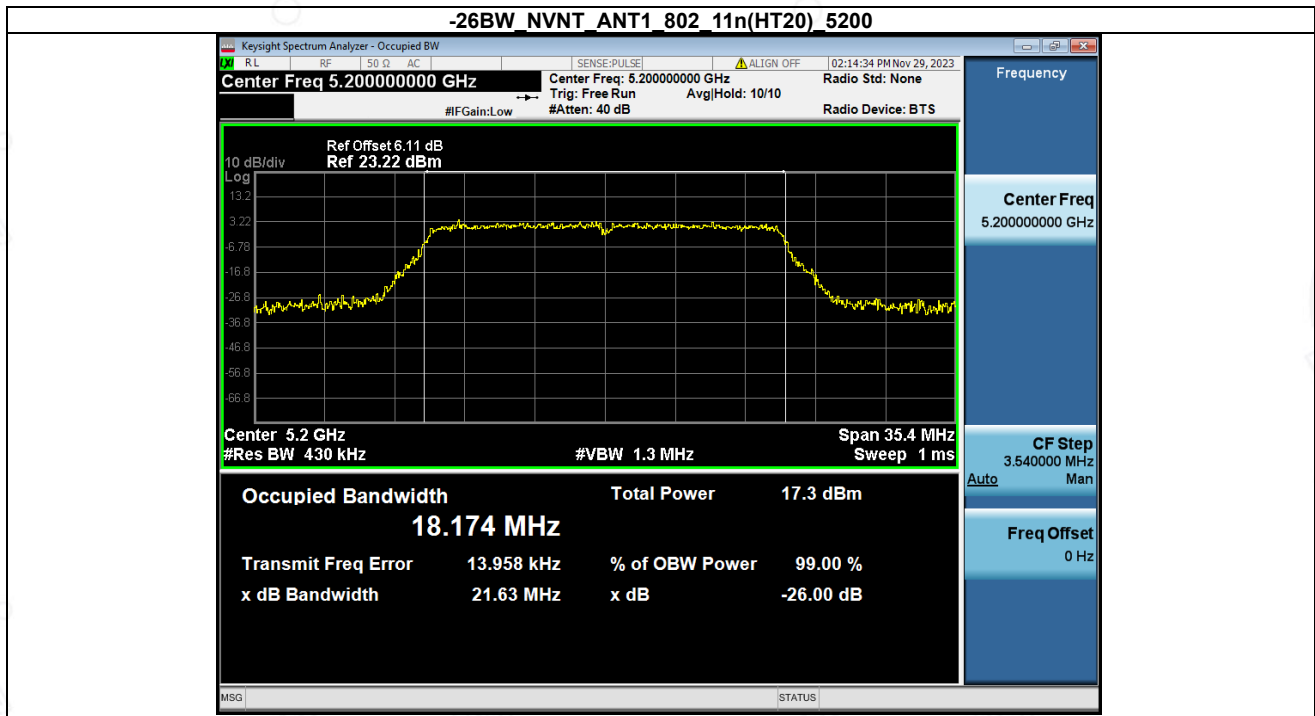


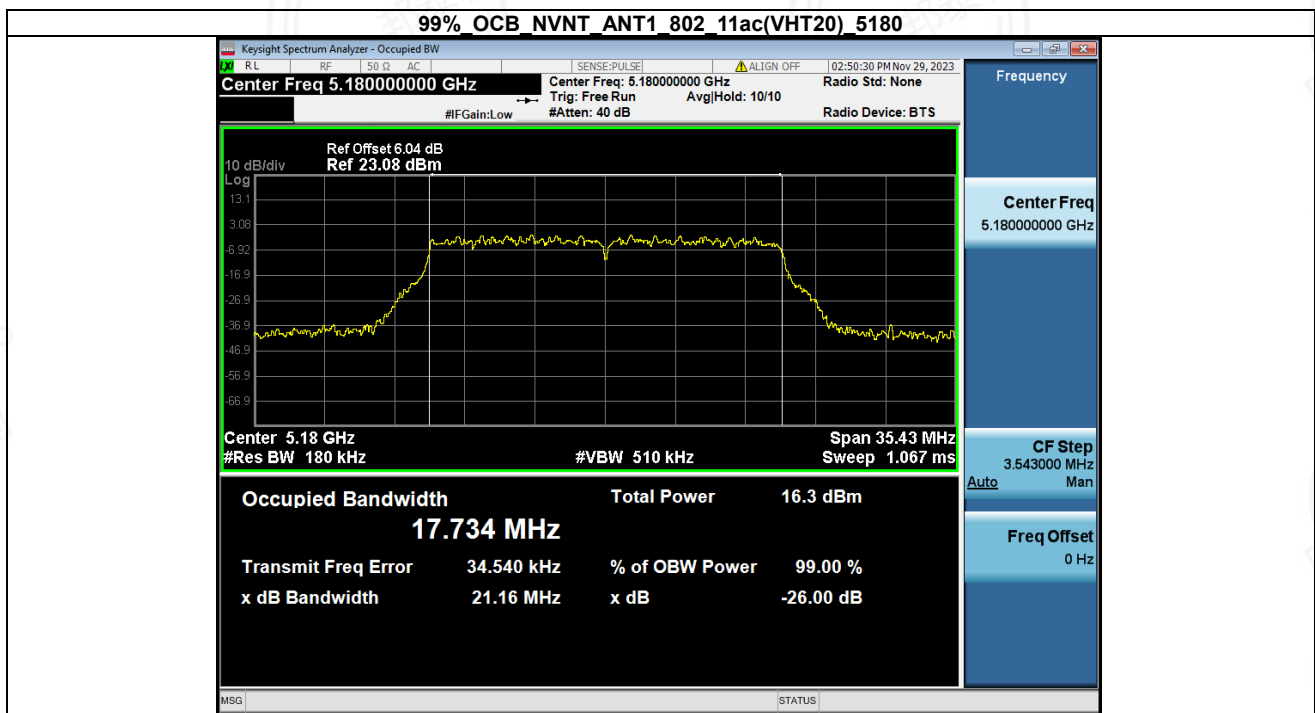
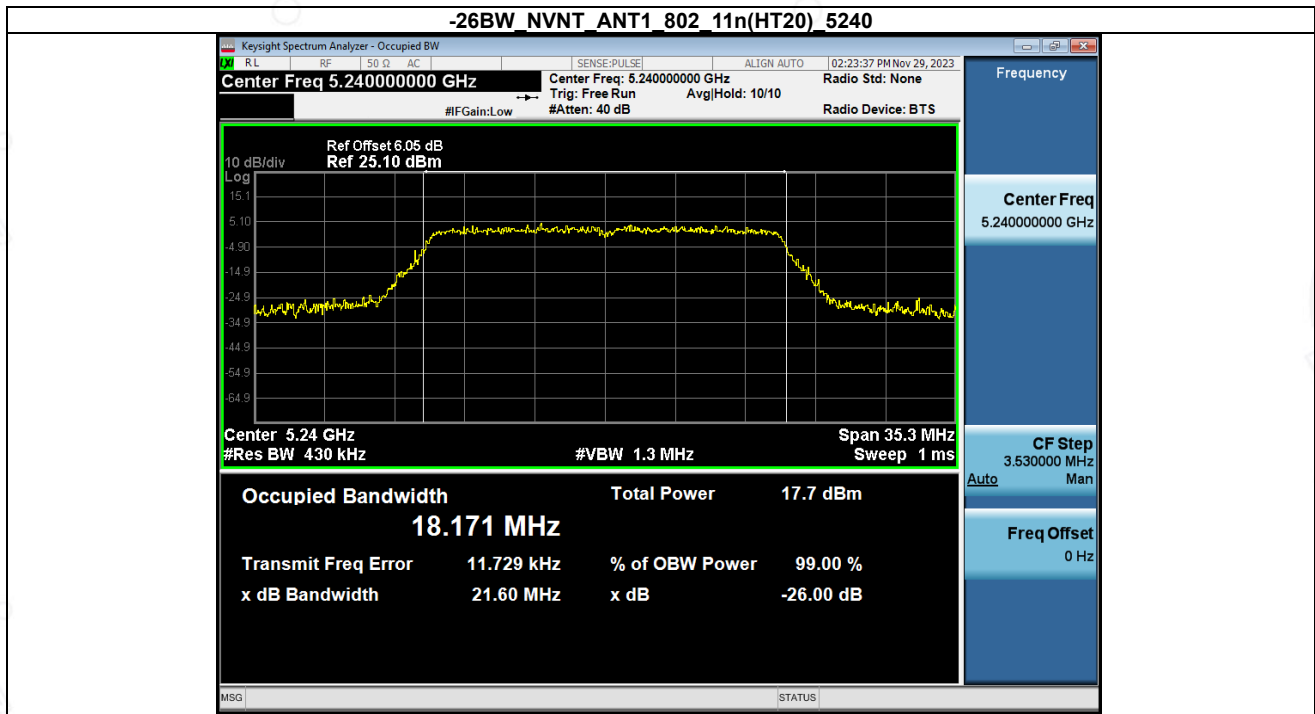


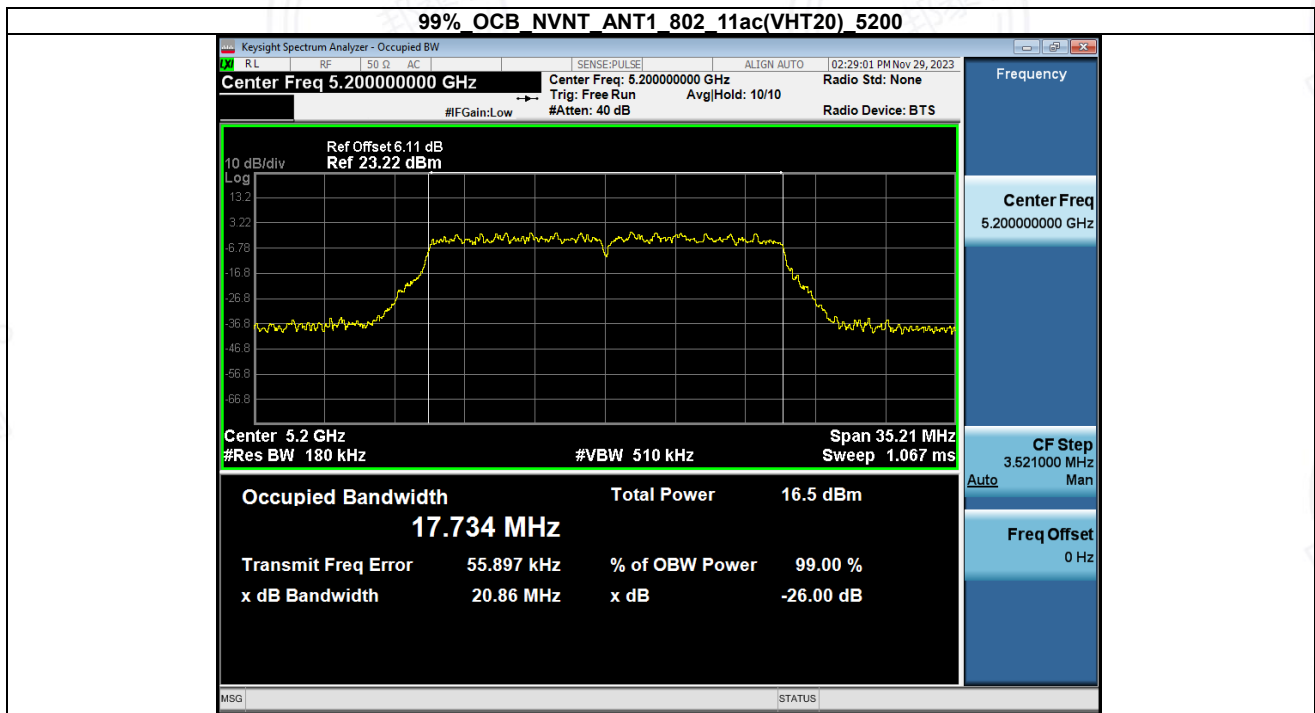
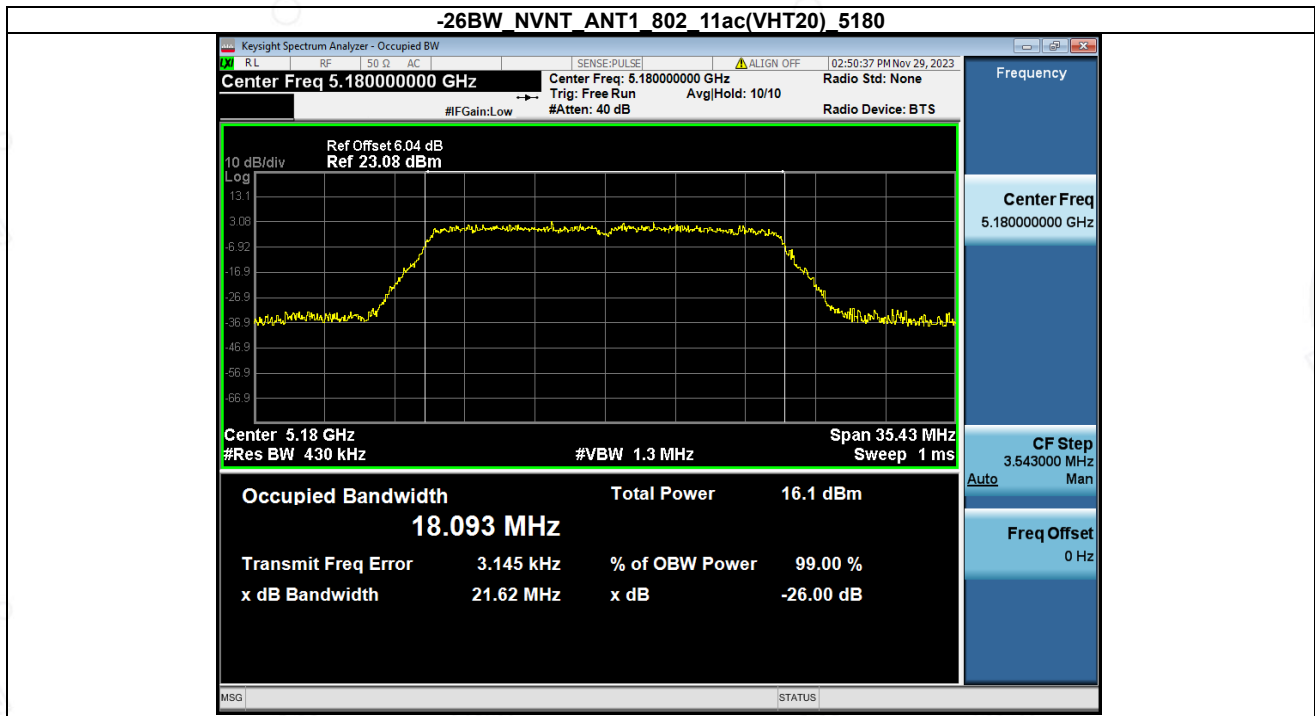


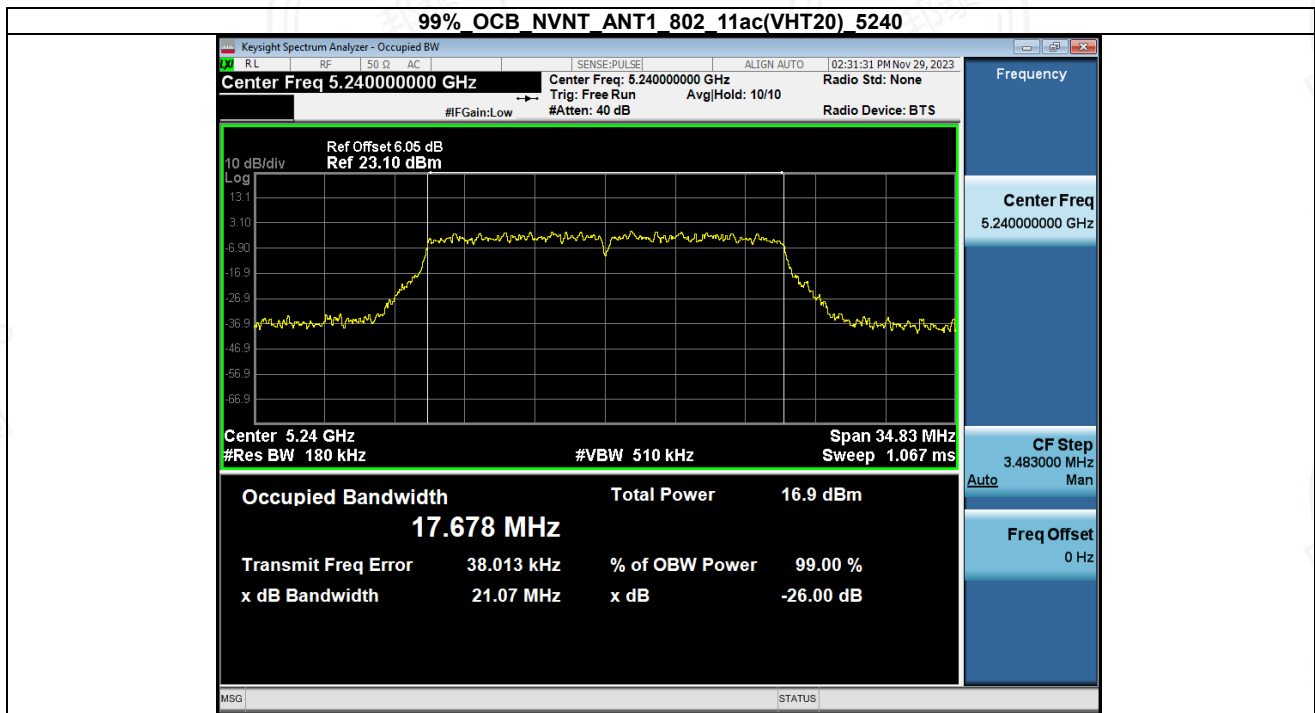
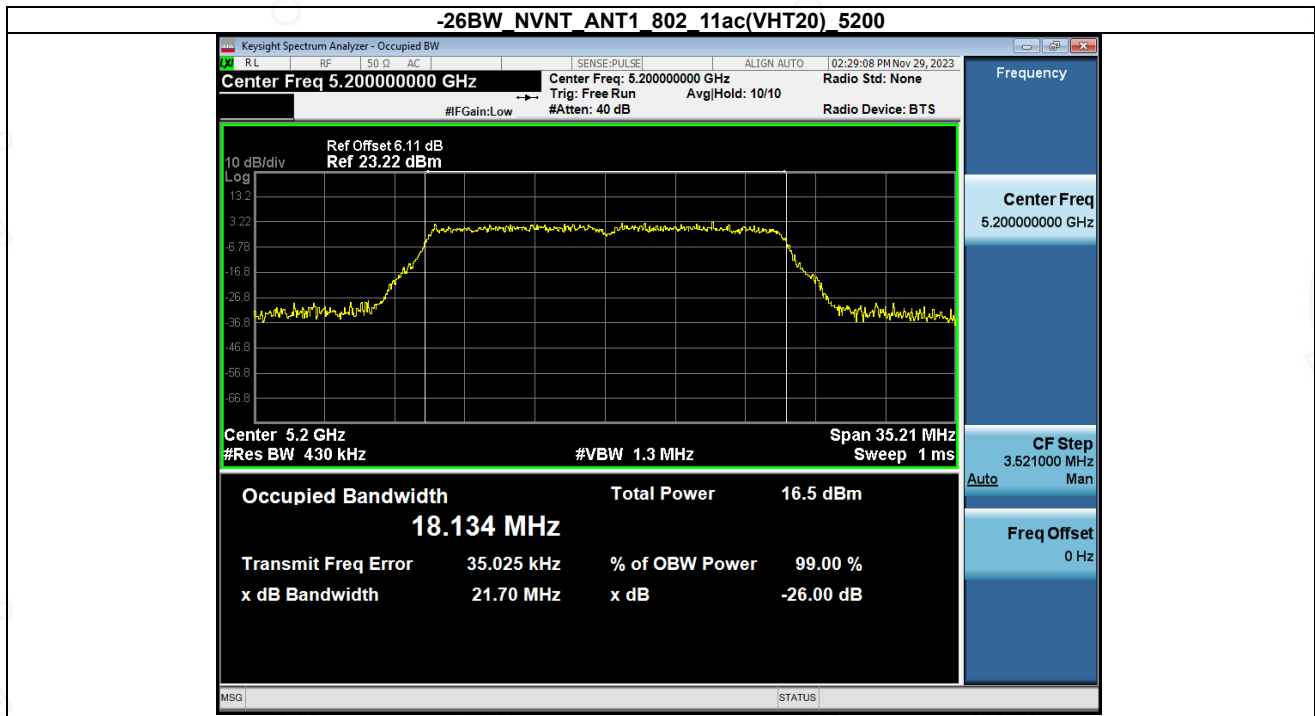


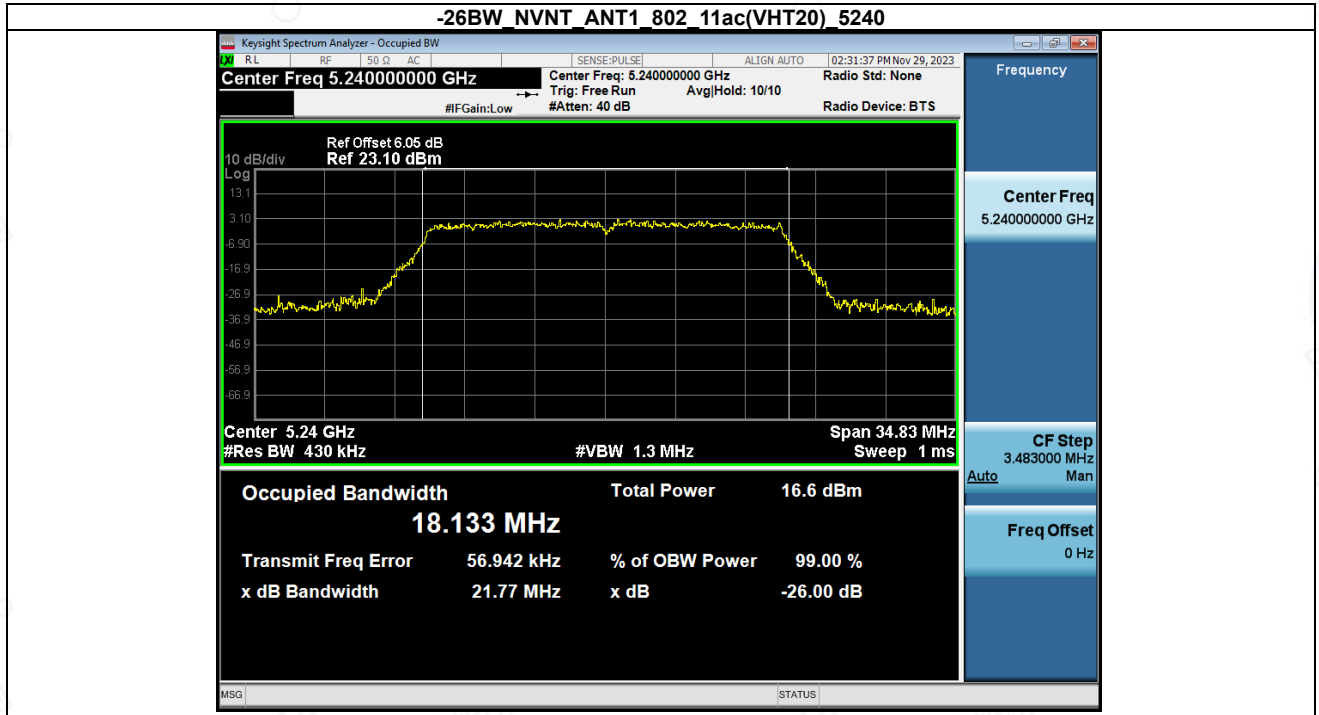






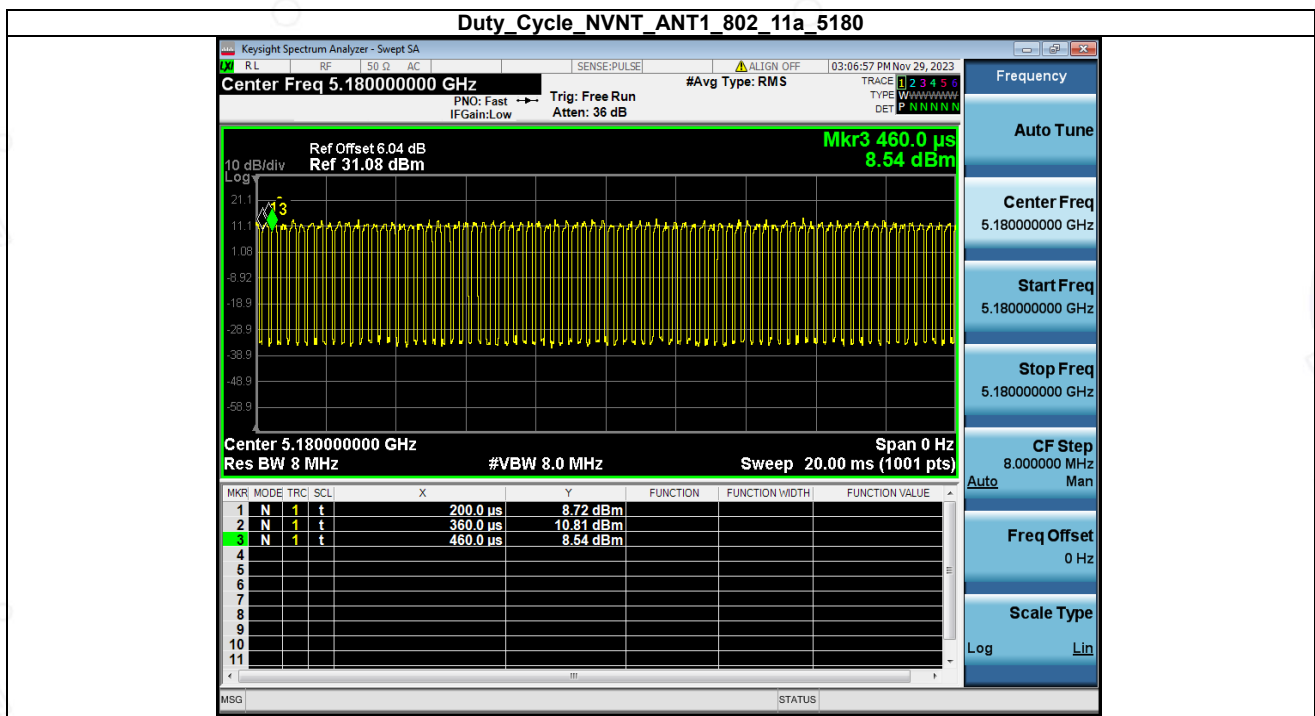






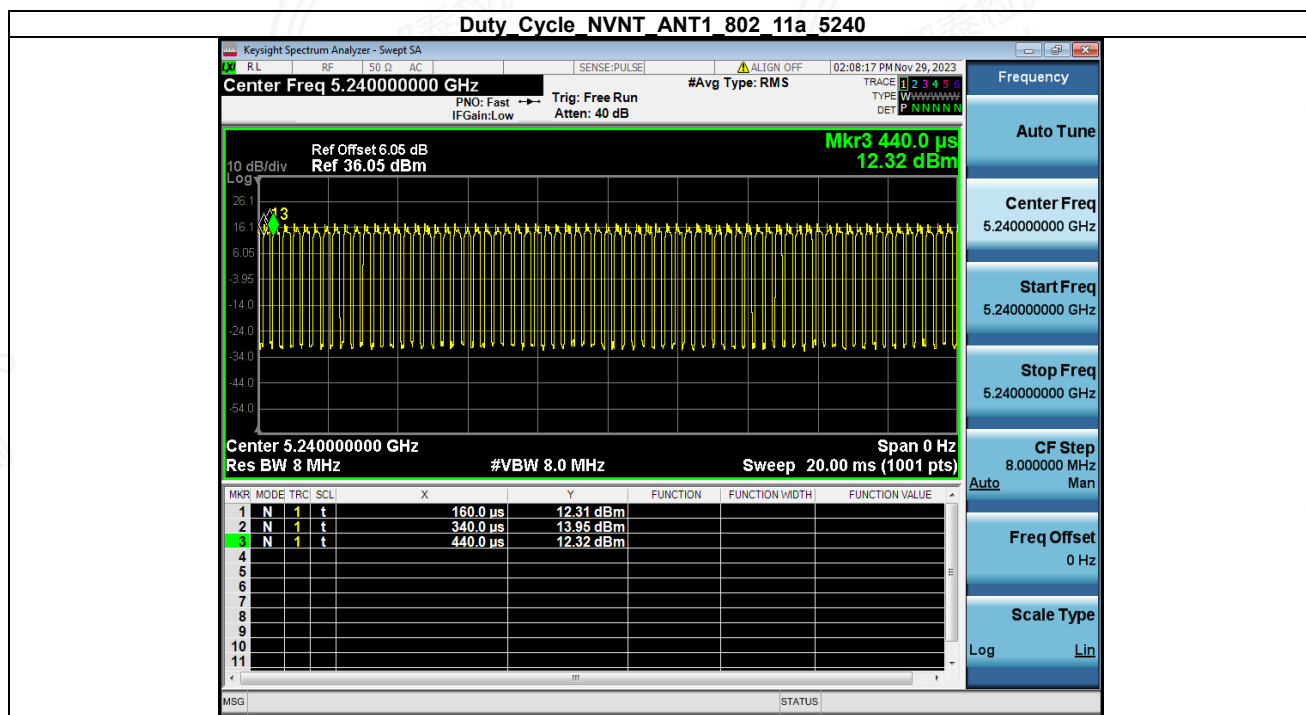
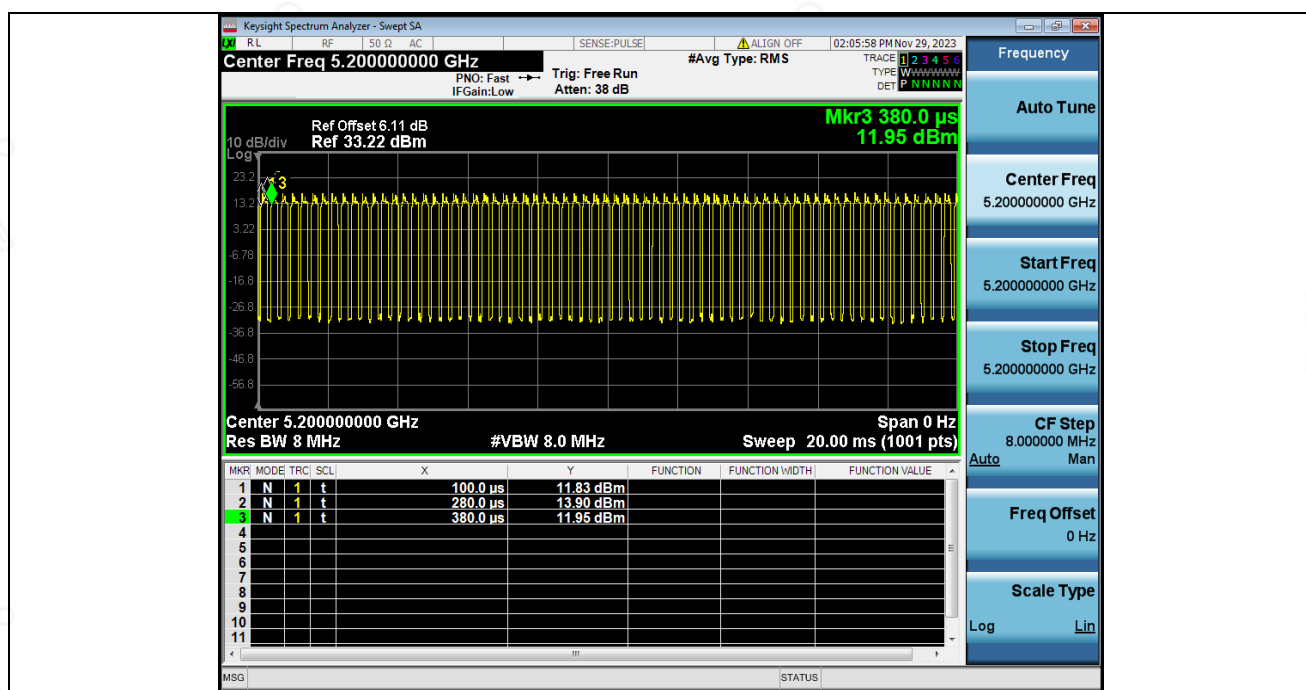
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	61.54	2.11
NVNT	ANT1	802.11a	5200.00	64.29	1.92
NVNT	ANT1	802.11a	5240.00	64.29	1.92
NVNT	ANT1	802.11n(HT20)	5180.00	57.14	2.43
NVNT	ANT1	802.11n(HT20)	5200.00	61.54	2.11
NVNT	ANT1	802.11n(HT20)	5240.00	64.29	1.92
NVNT	ANT1	802.11ac(VHT20)	5180.00	53.85	2.69
NVNT	ANT1	802.11ac(VHT20)	5200.00	53.85	2.69
NVNT	ANT1	802.11ac(VHT20)	5240.00	61.54	2.11



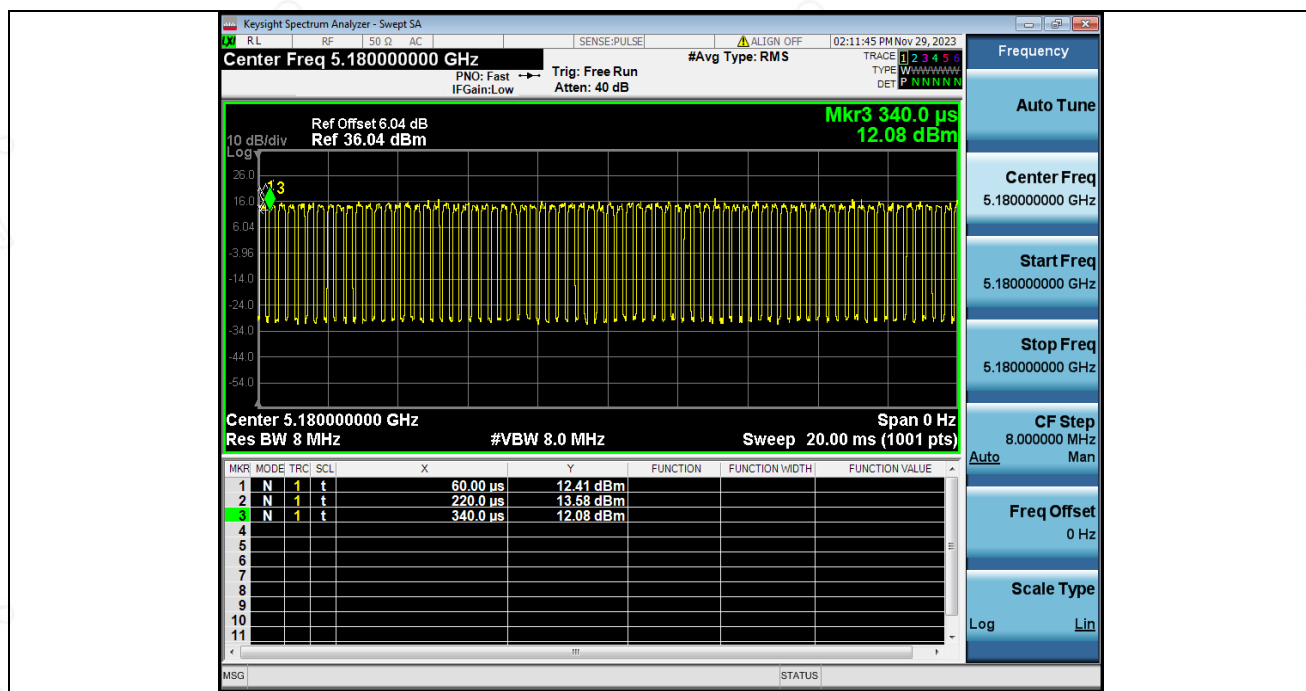
Duty_Cycle_NVNT_ANT1_802_11a_5200

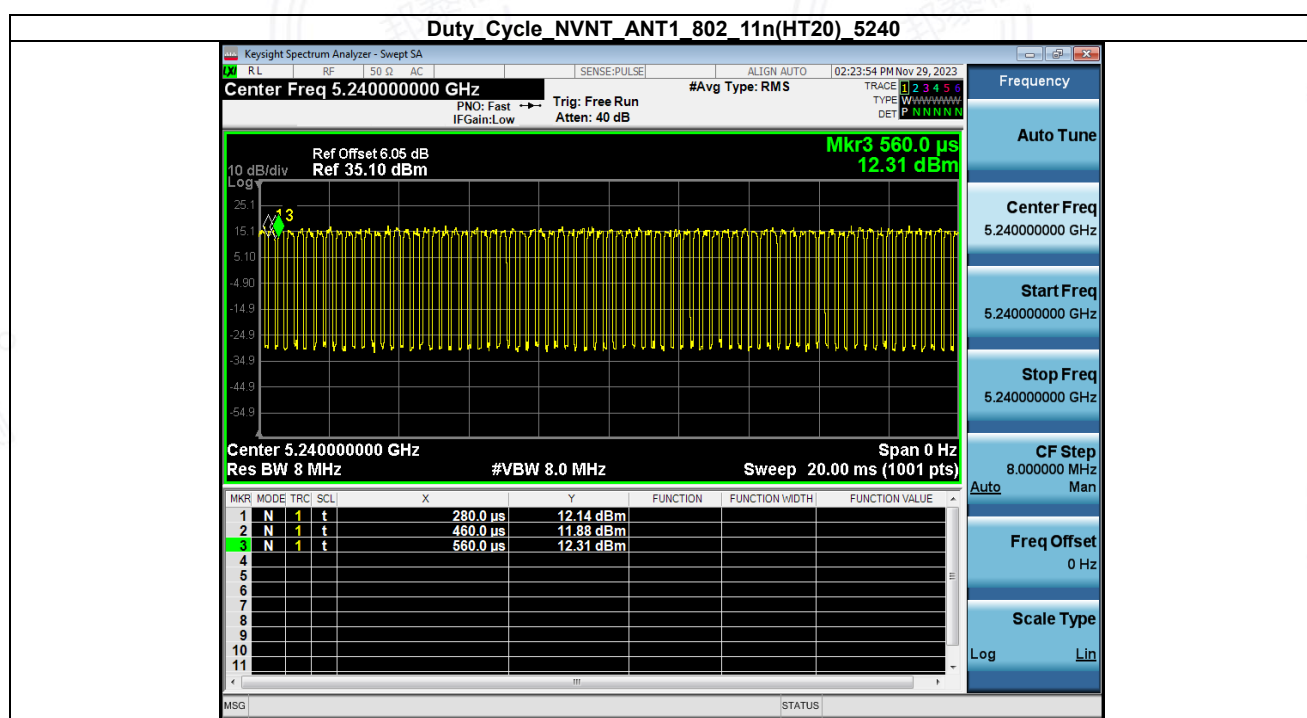
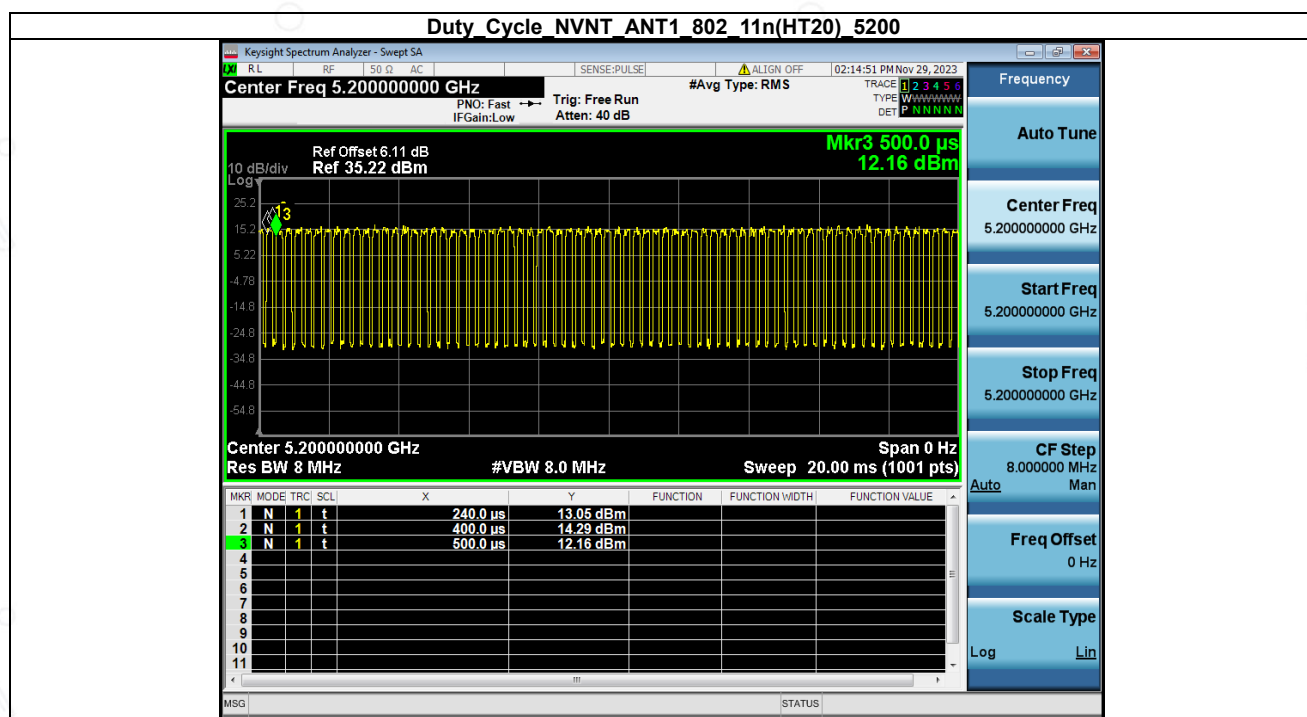


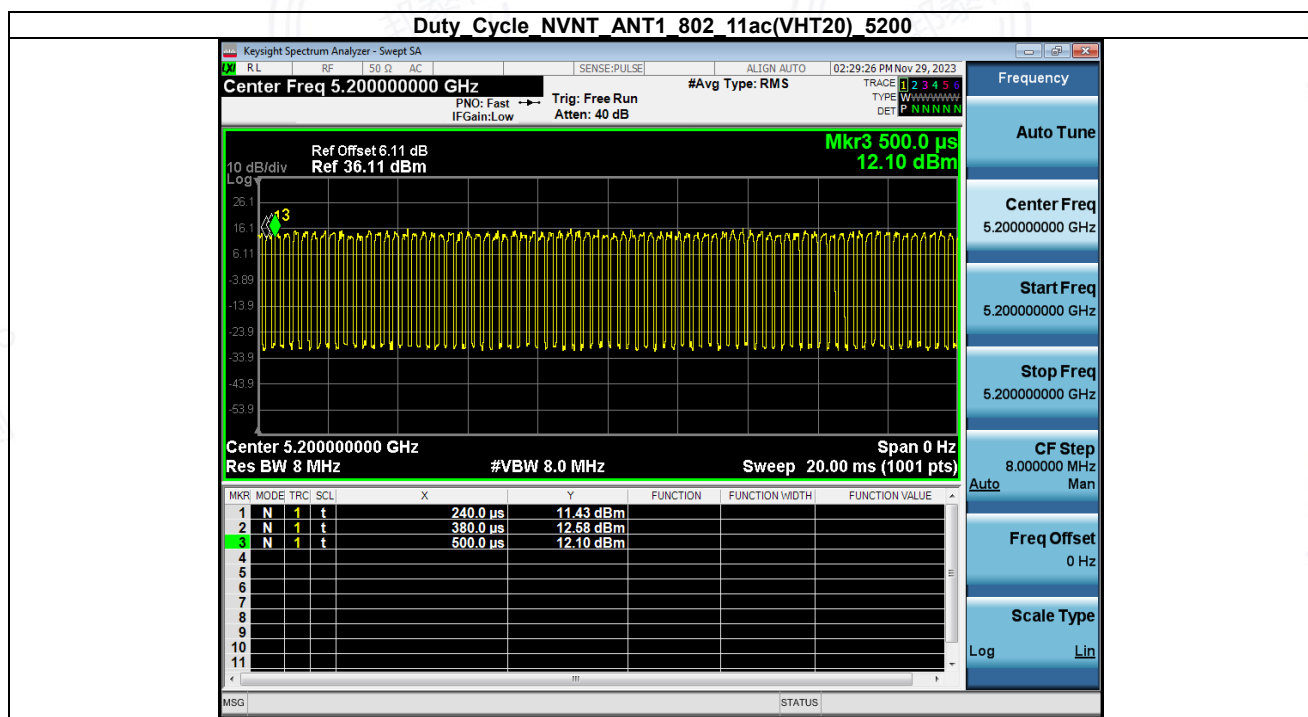
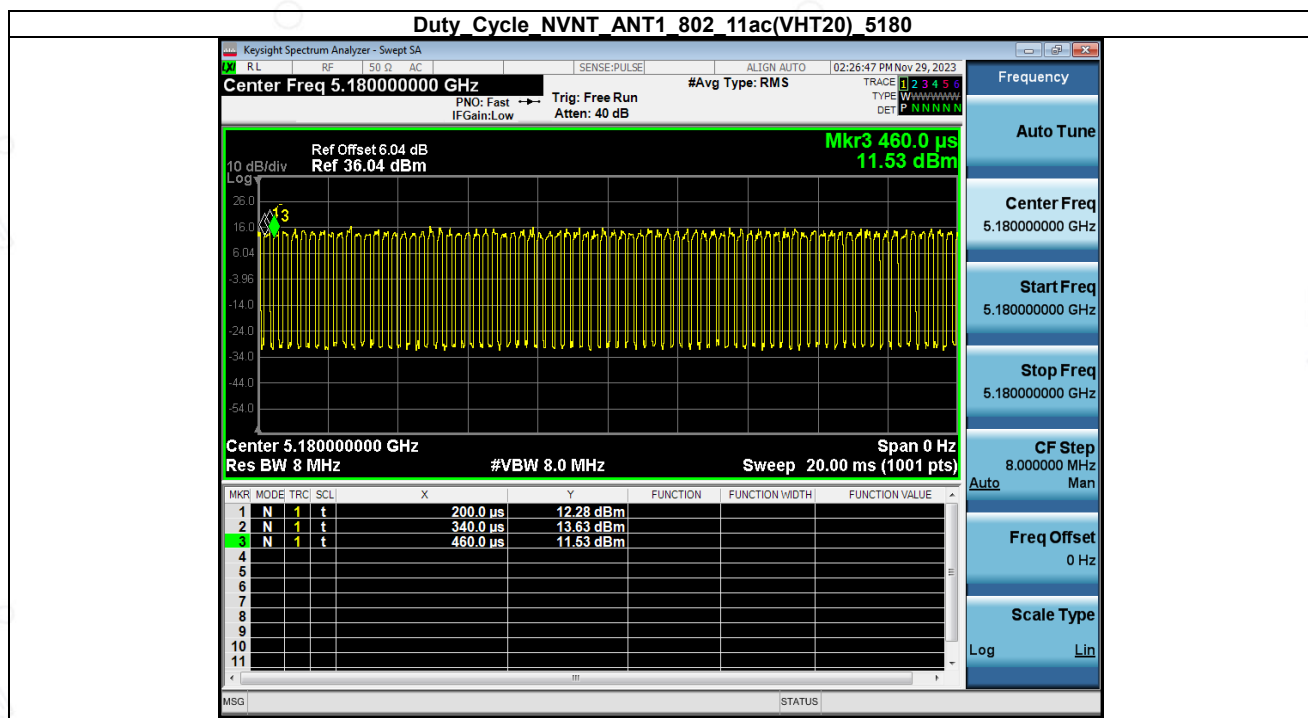


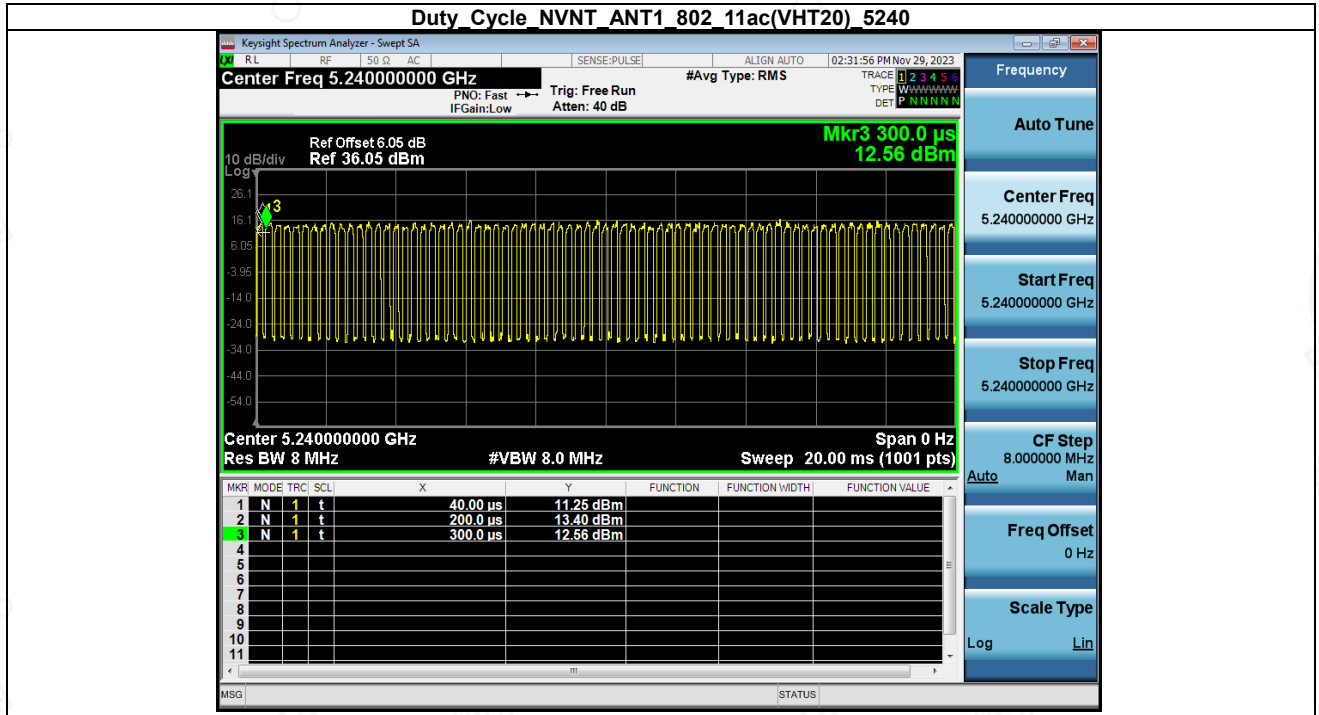
Duty Cycle NVNT ANT1_802_11n(HT20)_5180











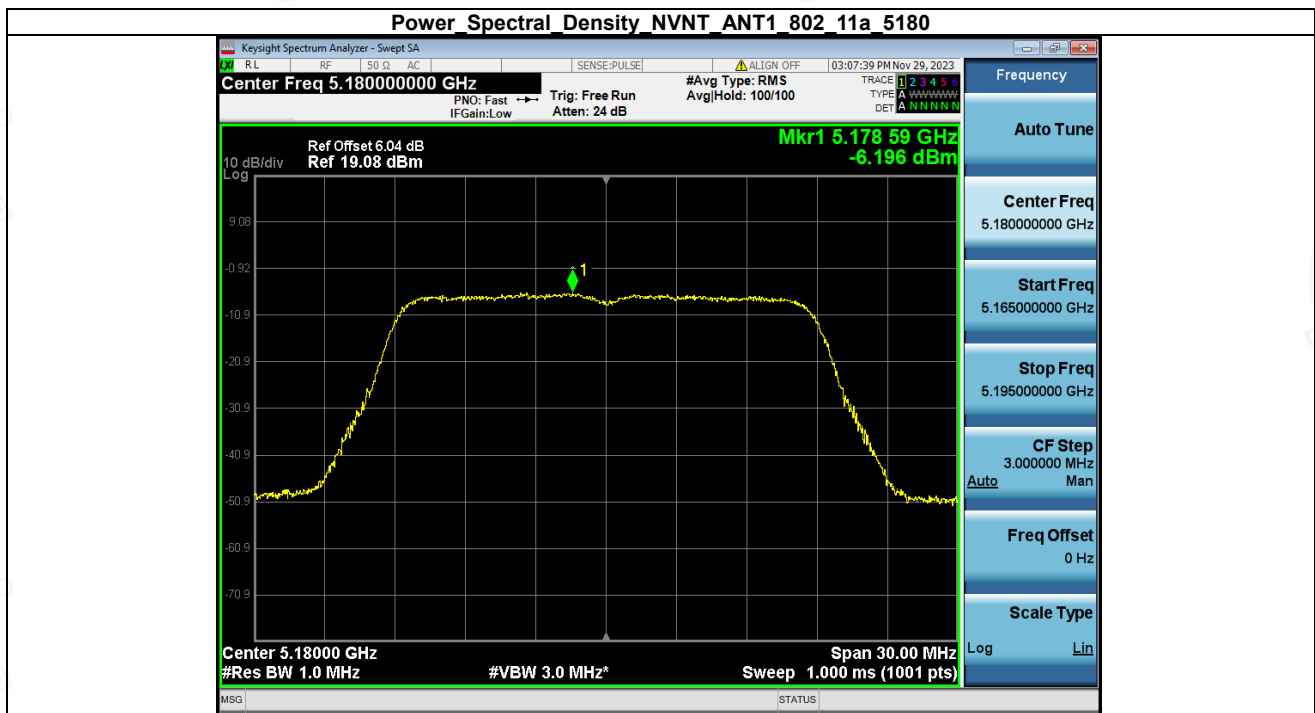
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	4.89	2.11	7.00	24	Pass
NVNT	ANT1	802.11a	5200.00	8.45	1.92	10.37	24	Pass
NVNT	ANT1	802.11a	5240.00	8.65	1.92	10.57	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	8.01	2.43	10.44	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	8.43	2.11	10.54	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	8.66	1.92	10.58	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	7.27	2.69	9.96	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	7.37	2.69	10.06	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	7.49	2.11	9.60	24	Pass



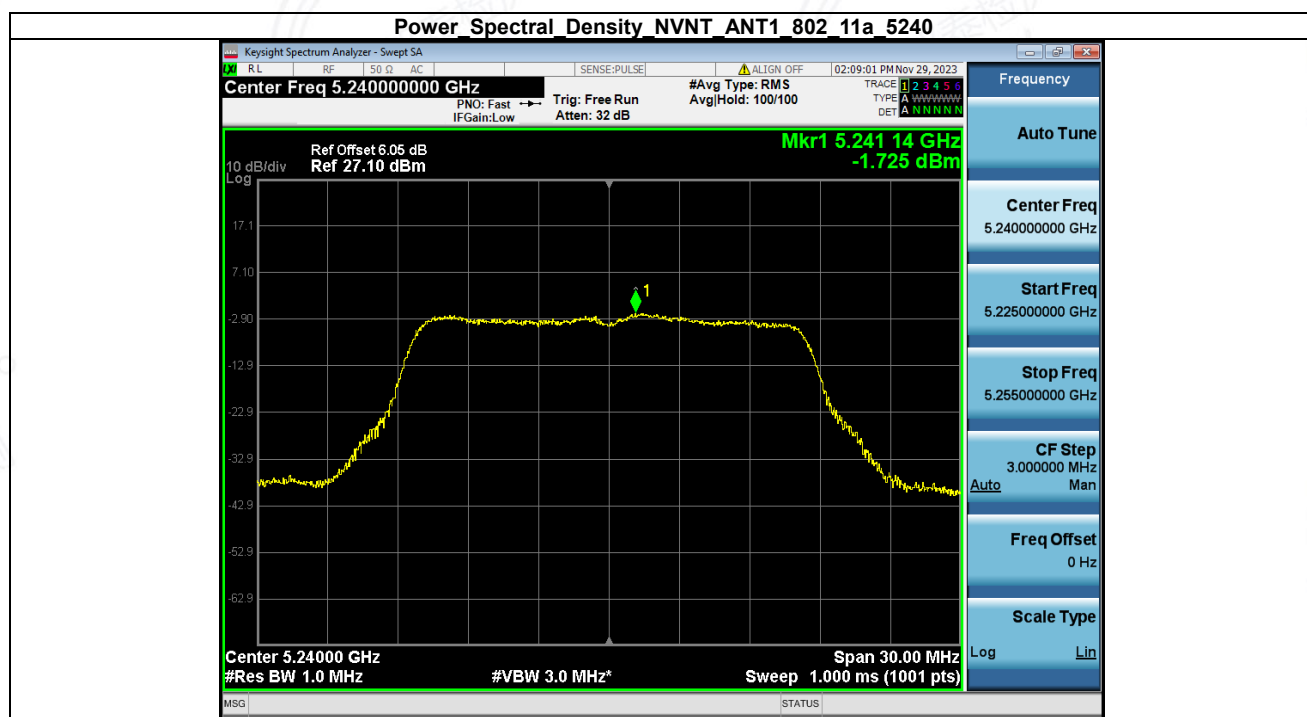
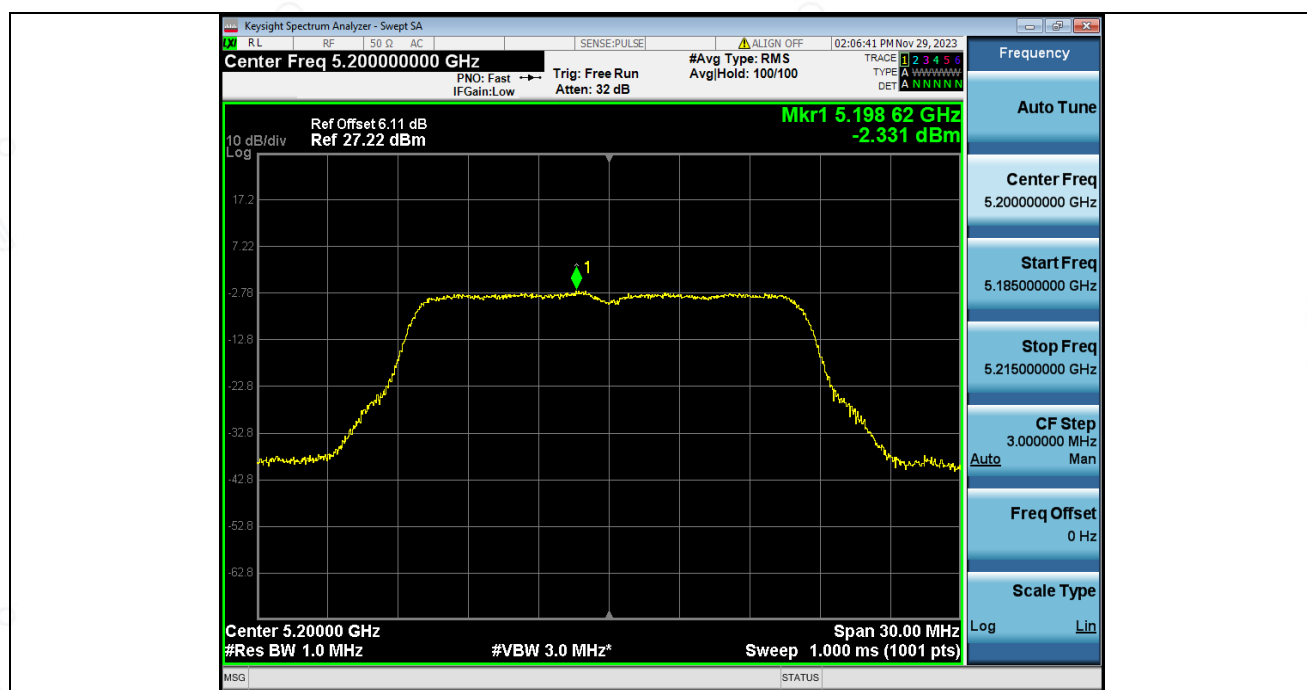
4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-6.20	2.11	-4.09	11	Pass
NVNT	ANT1	802.11a	5200.00	-2.33	1.92	-0.41	11	Pass
NVNT	ANT1	802.11a	5240.00	-1.73	1.92	0.19	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-2.68	2.43	-0.25	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-2.58	2.11	-0.47	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-2.42	1.92	-0.50	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-3.79	2.69	-1.10	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-3.54	2.69	-0.85	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-3.23	2.11	-1.12	11	Pass



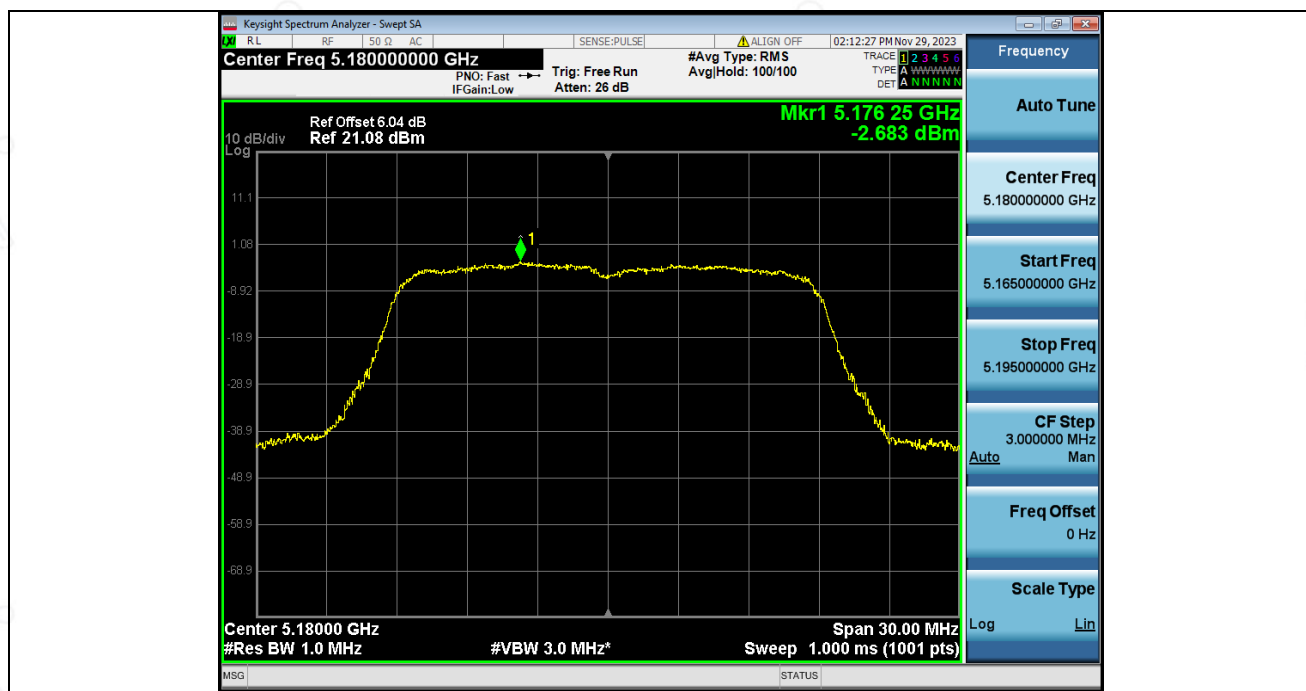
Power Spectral Density NVNT ANT1 802 11a 5200

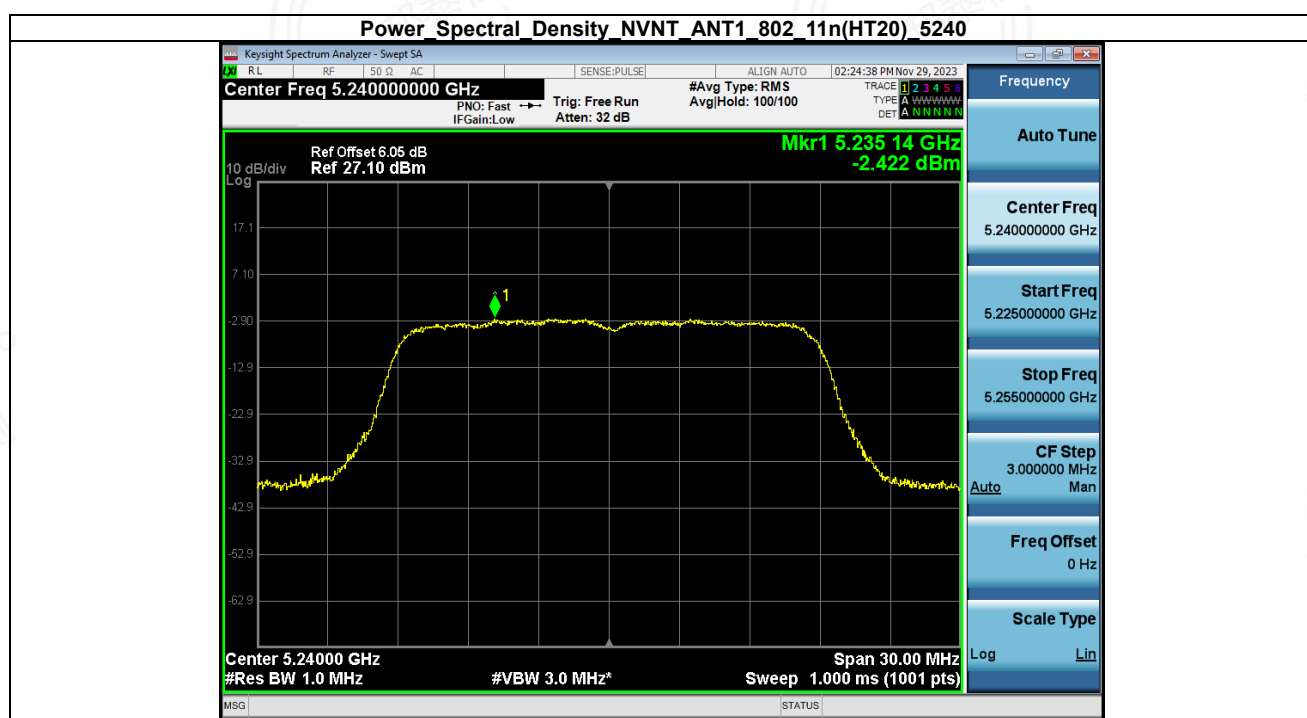
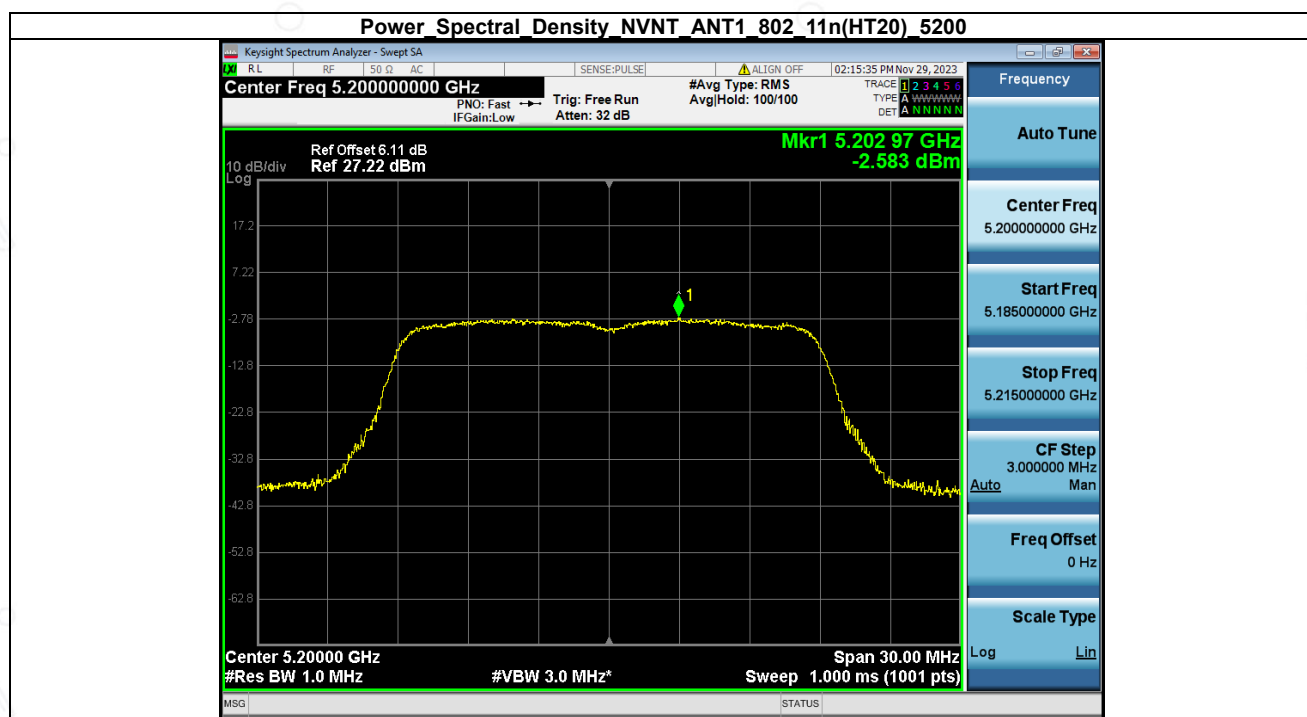


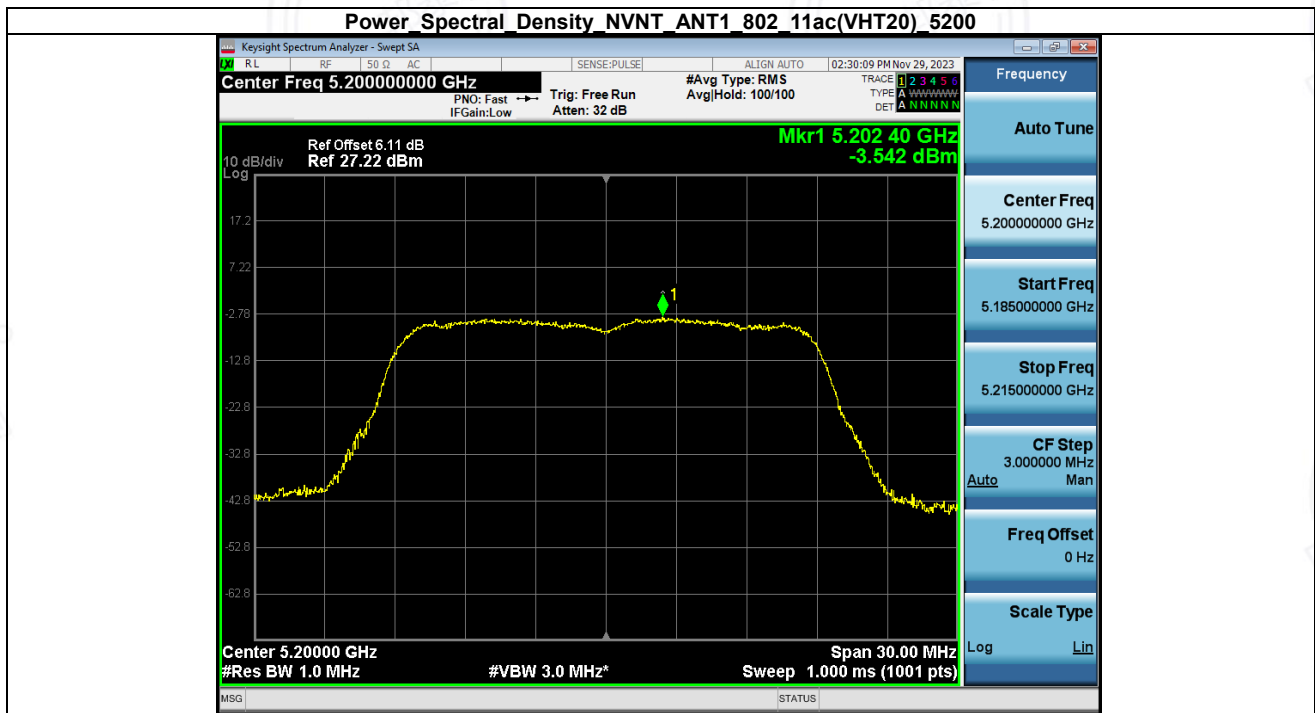
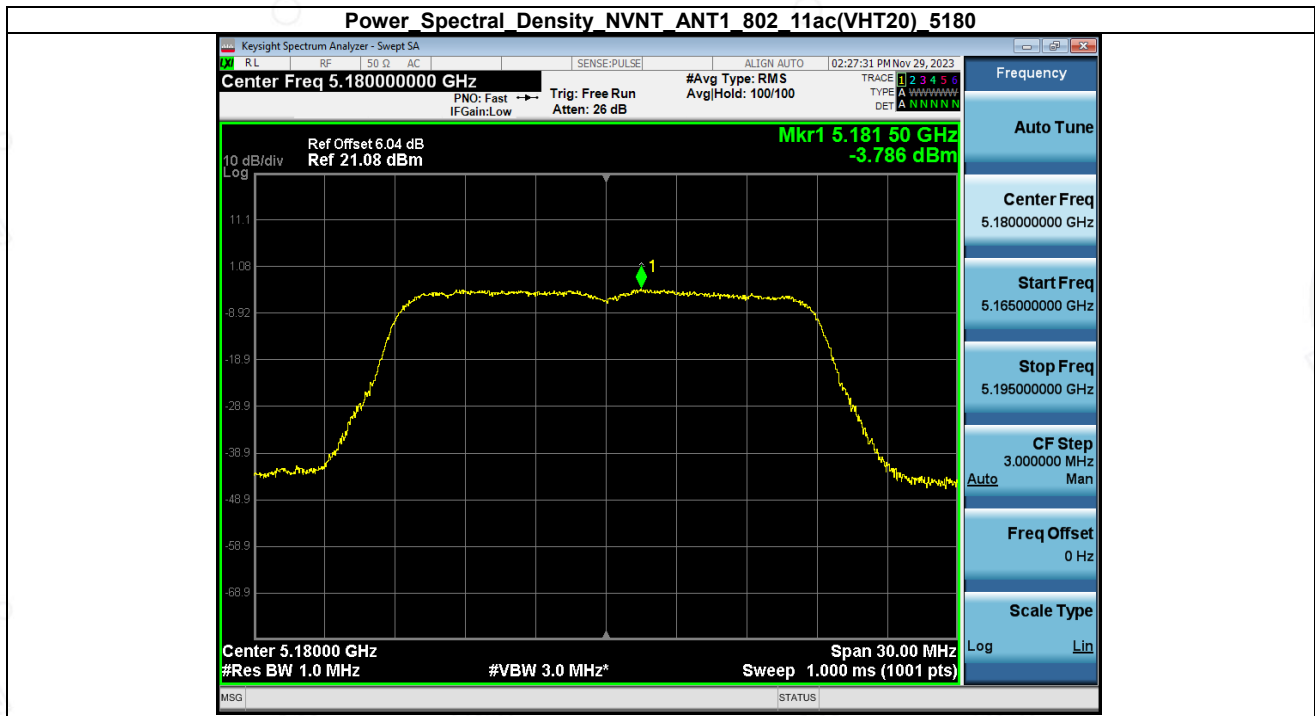


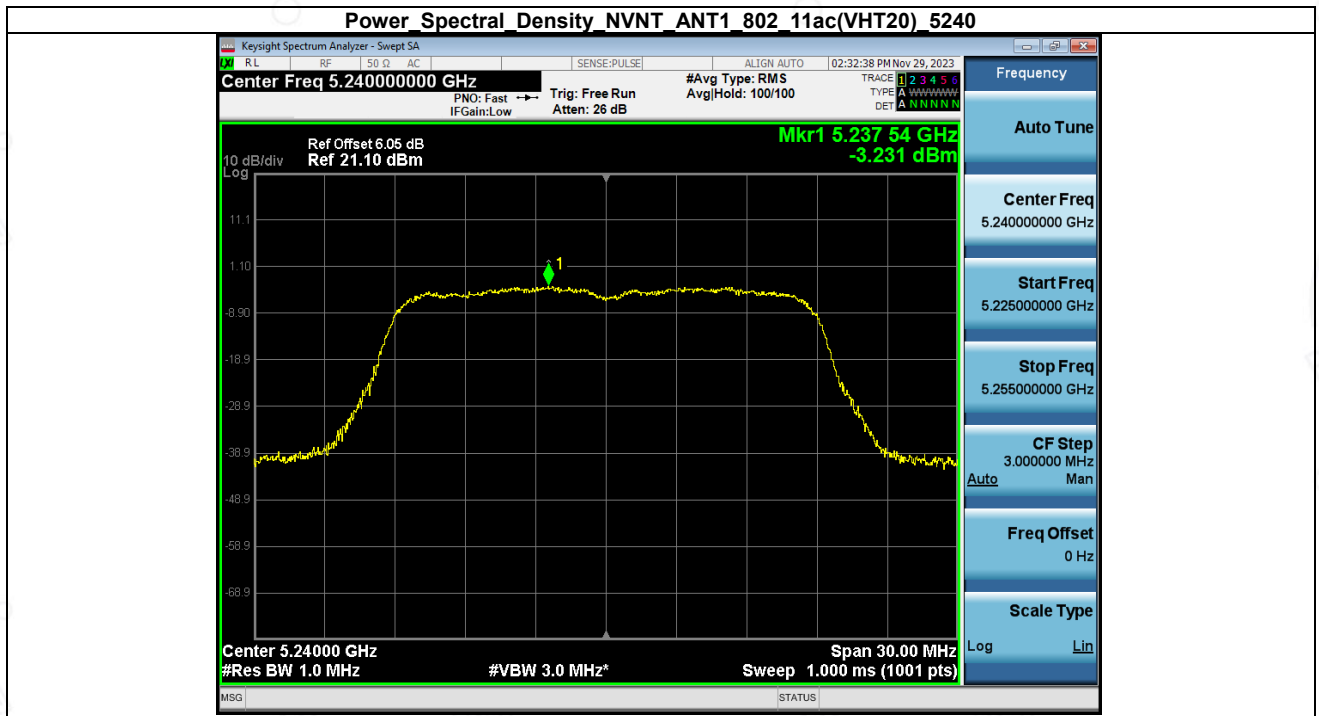
Power Spectral Density NVNT_ANT1_802_11n(HT20)_5180





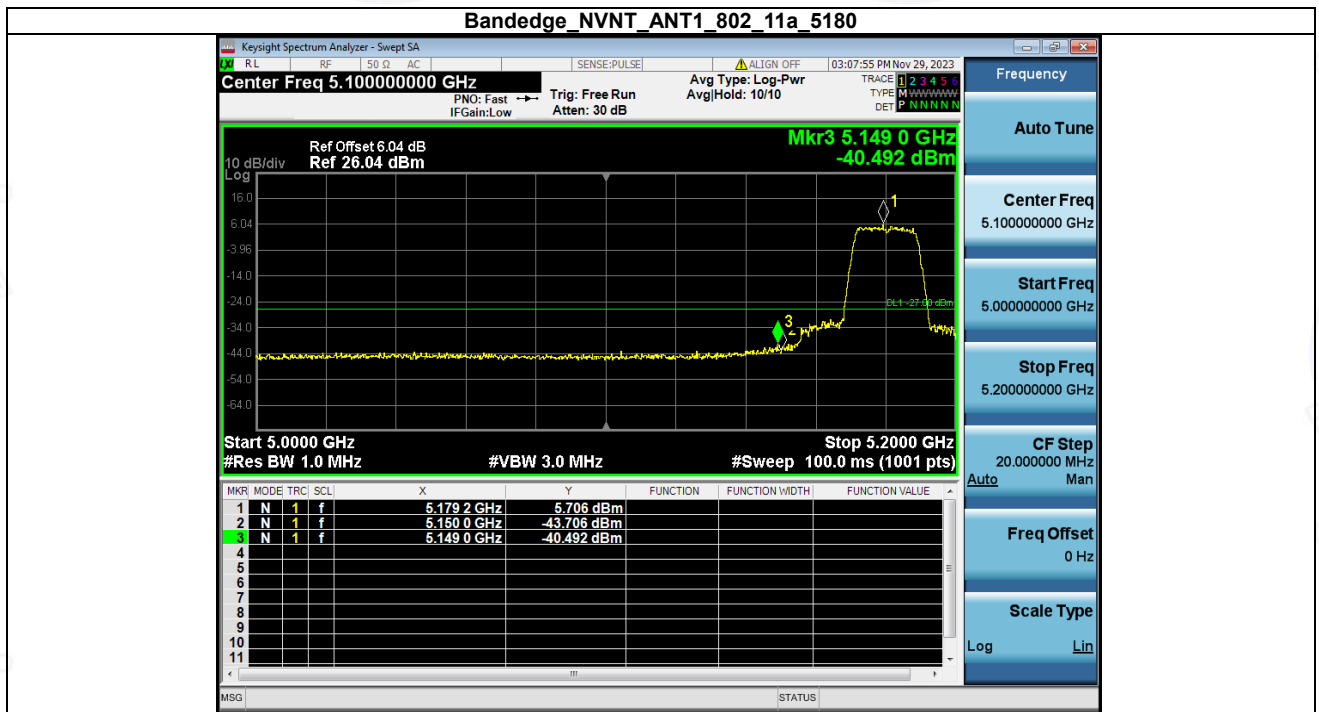






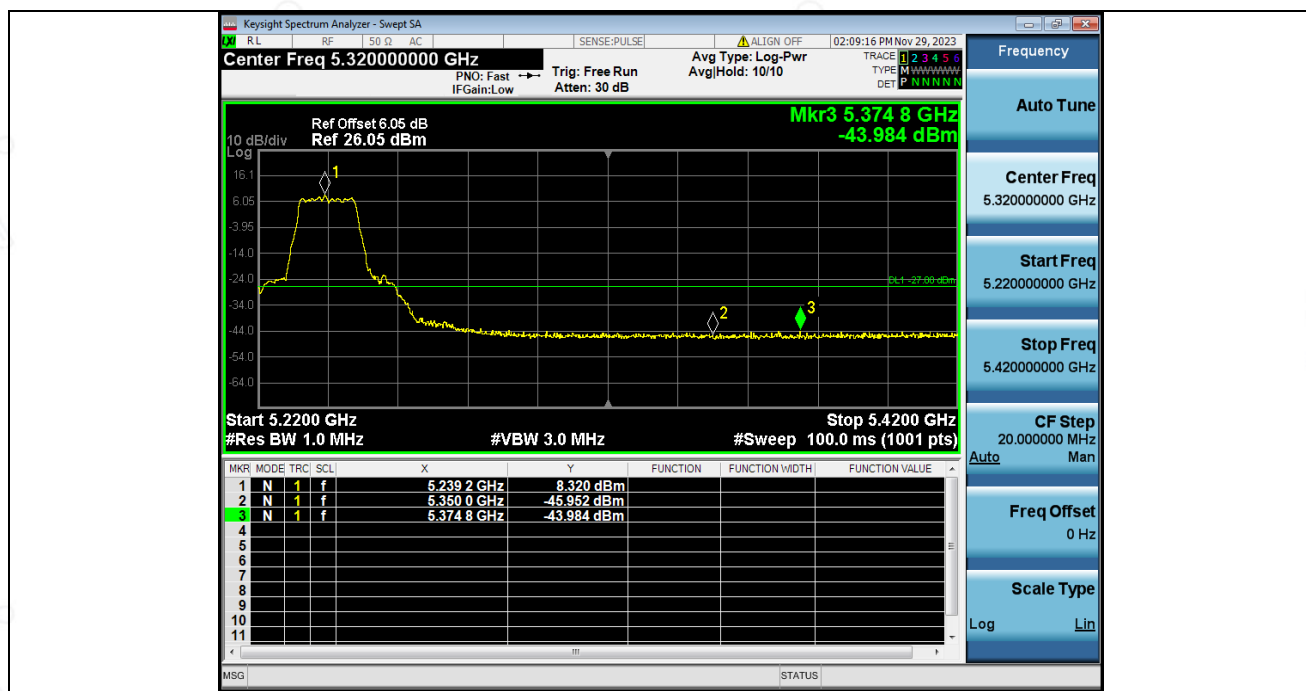
5. Bandedge

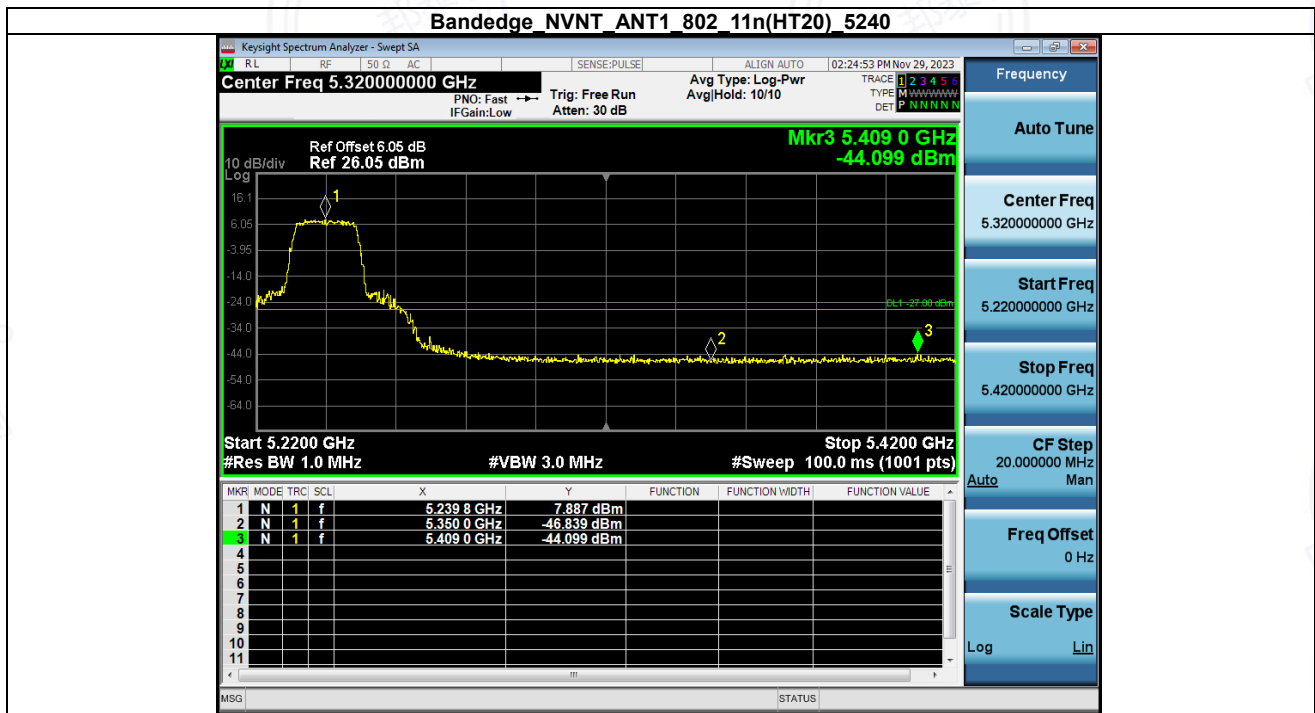
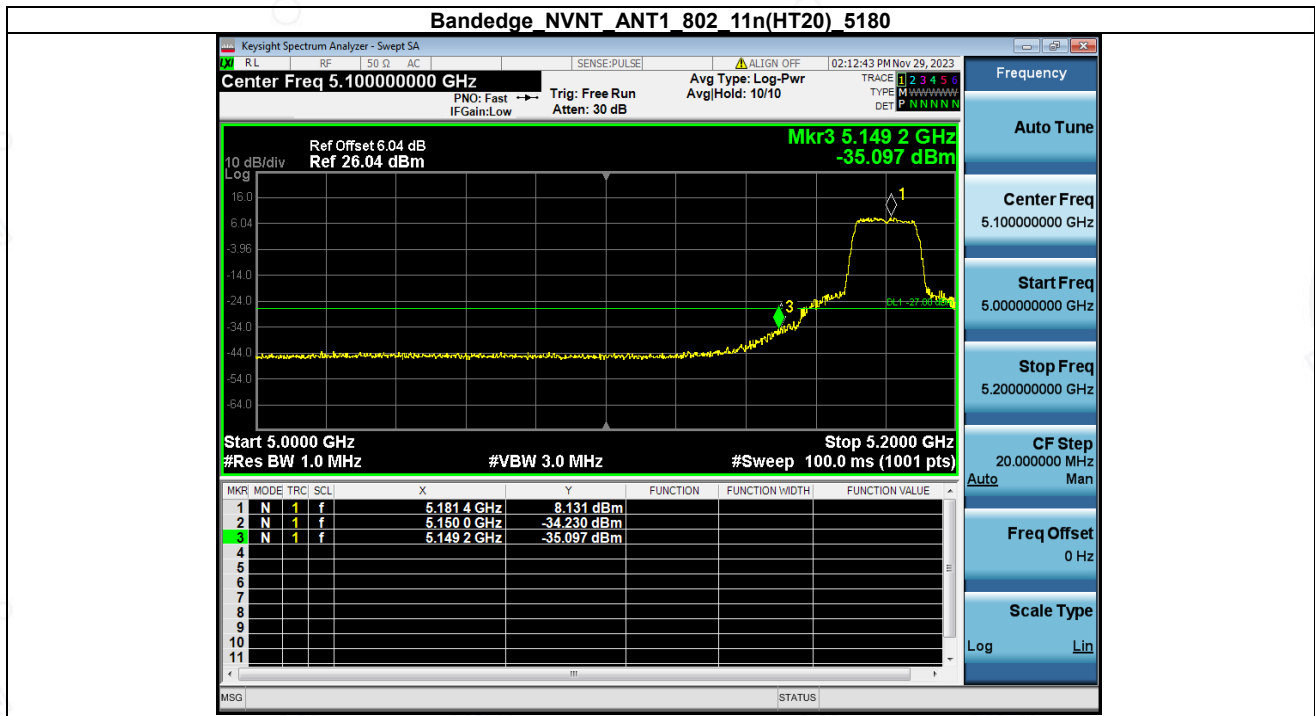
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5149.00	-40.49	-27	Pass
NVNT	ANT1	802.11a	5240.00	5374.80	-43.98	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5149.20	-35.10	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5409.00	-44.10	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5148.60	-36.79	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5395.20	-43.91	-27	Pass

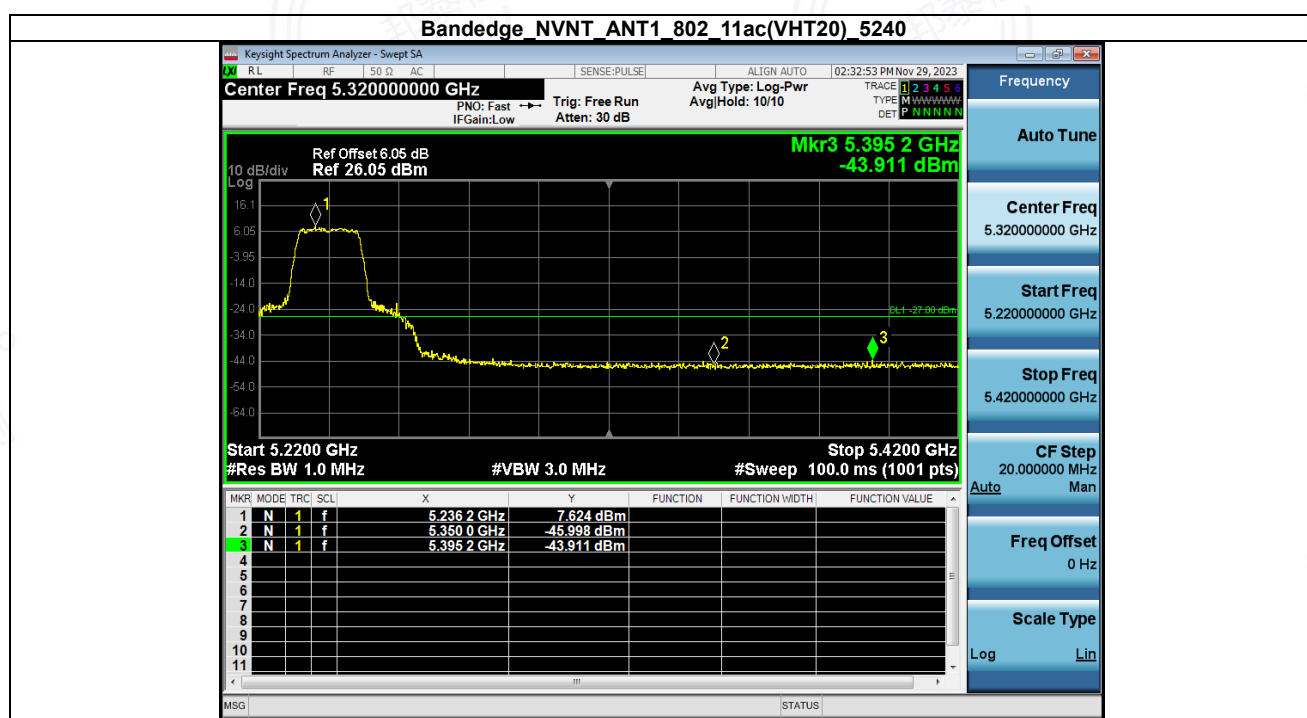
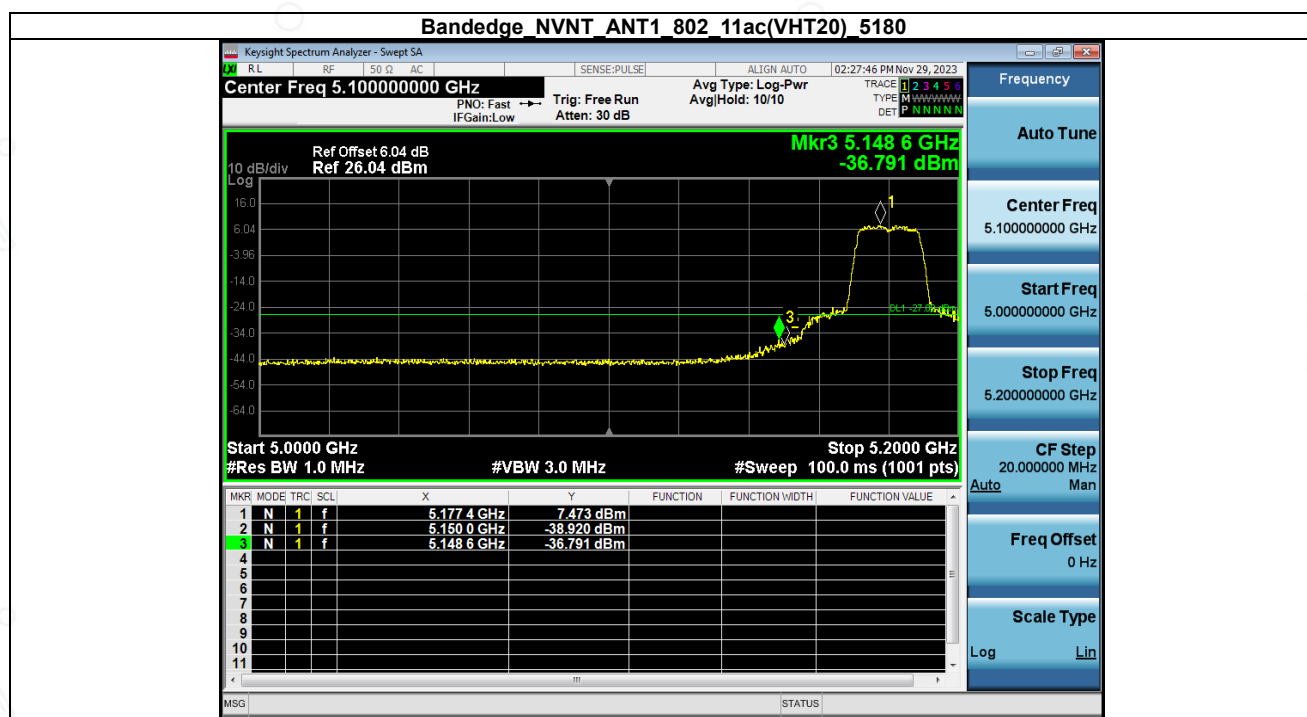


Bandedge_NVNT_ANT1_802_11a_5240



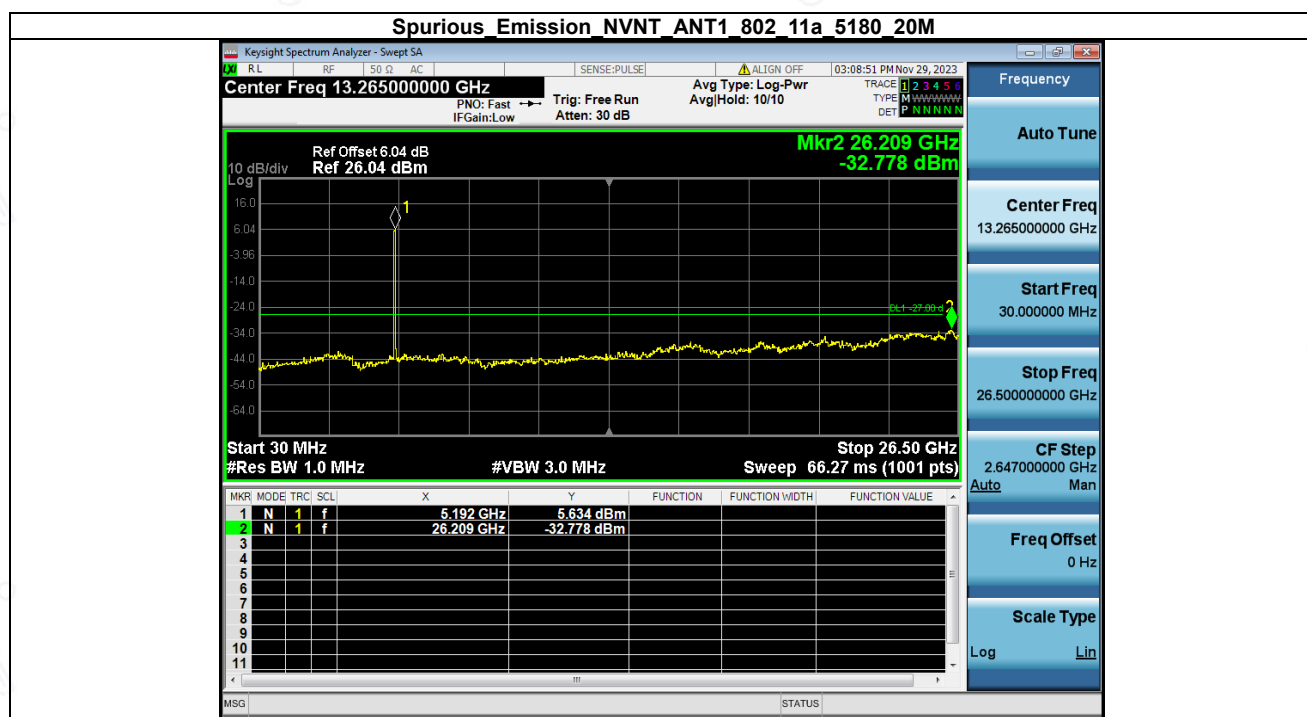






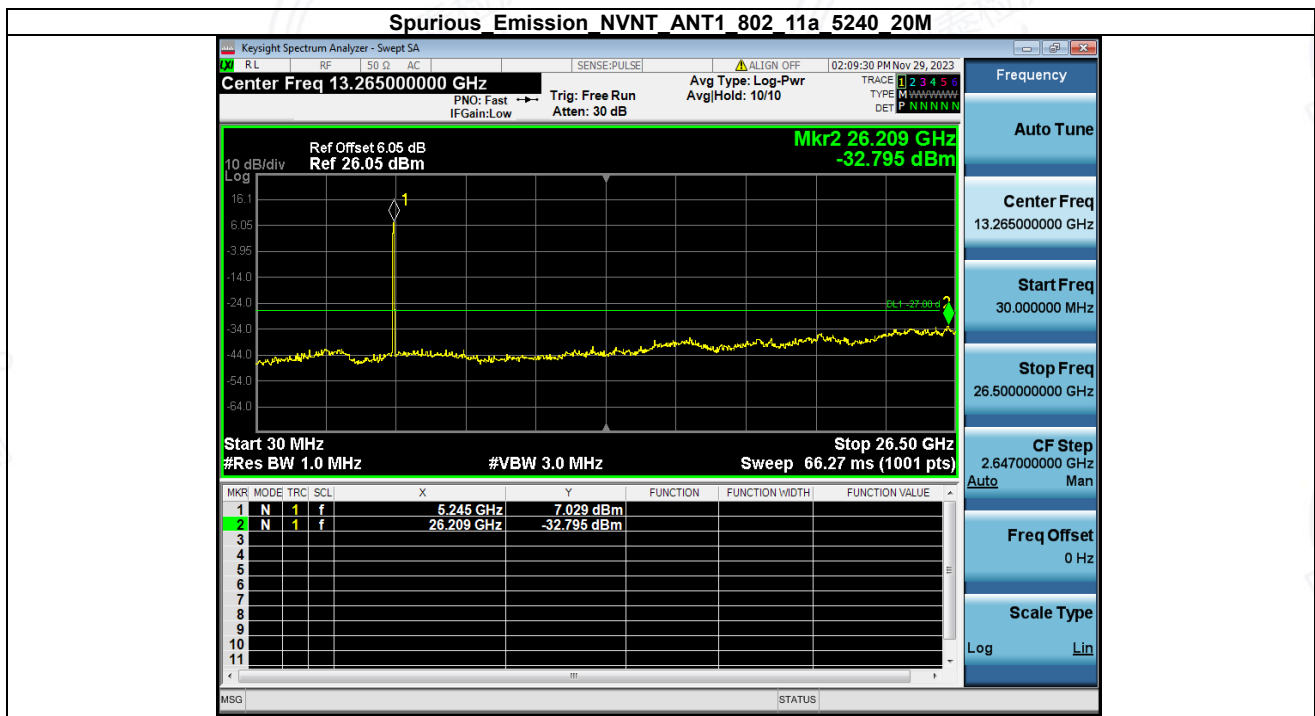
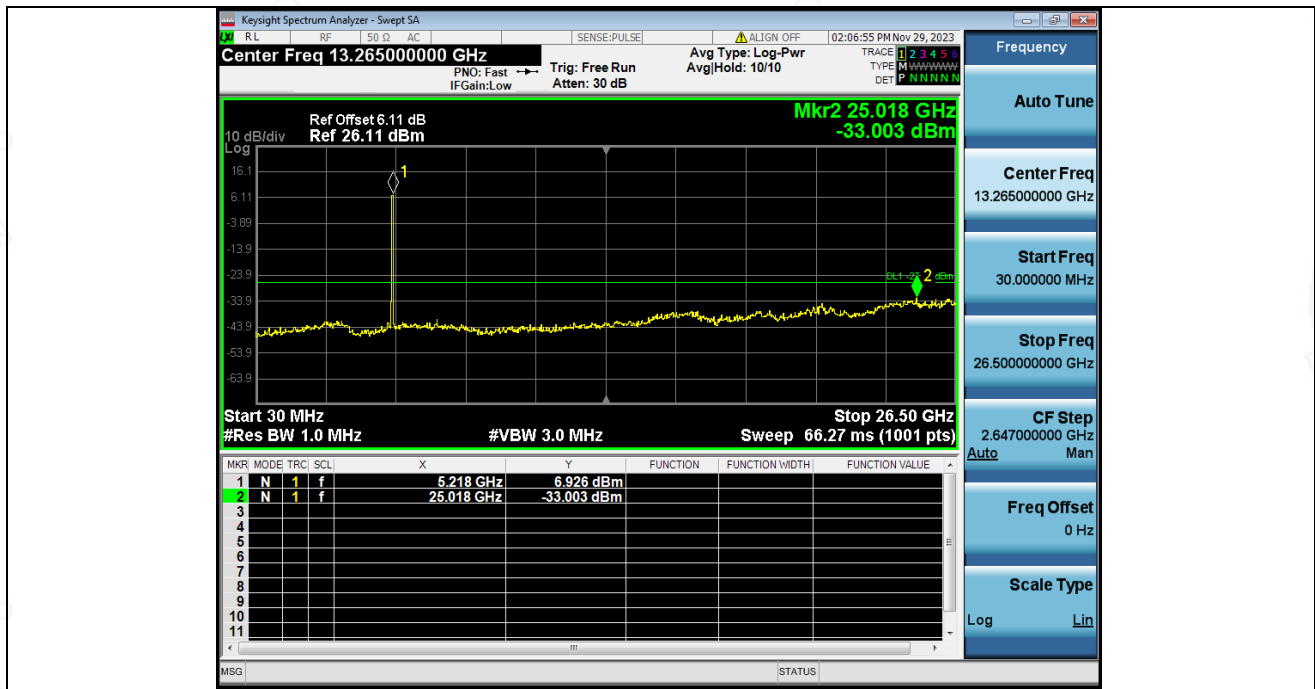
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	26208.83	-32.78	-27	Pass
NVNT	ANT1	802.11a	5200.00	25017.68	-33.00	-27	Pass
NVNT	ANT1	802.11a	5240.00	26208.83	-32.79	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	26235.30	-32.42	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	26235.30	-32.89	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	26155.89	-32.62	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	26208.83	-32.37	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	25732.37	-33.56	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	26182.36	-33.16	-27	Pass



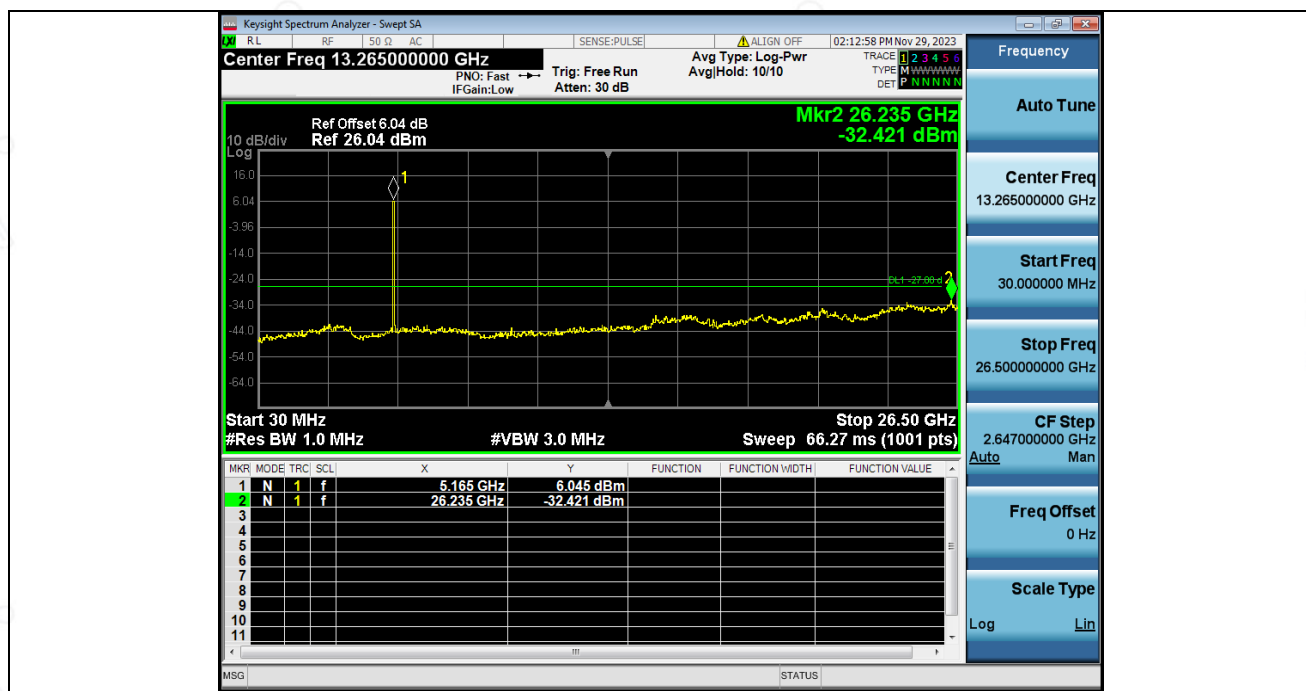
Spurious Emission NVNT ANT1 802_11a 5200 20M

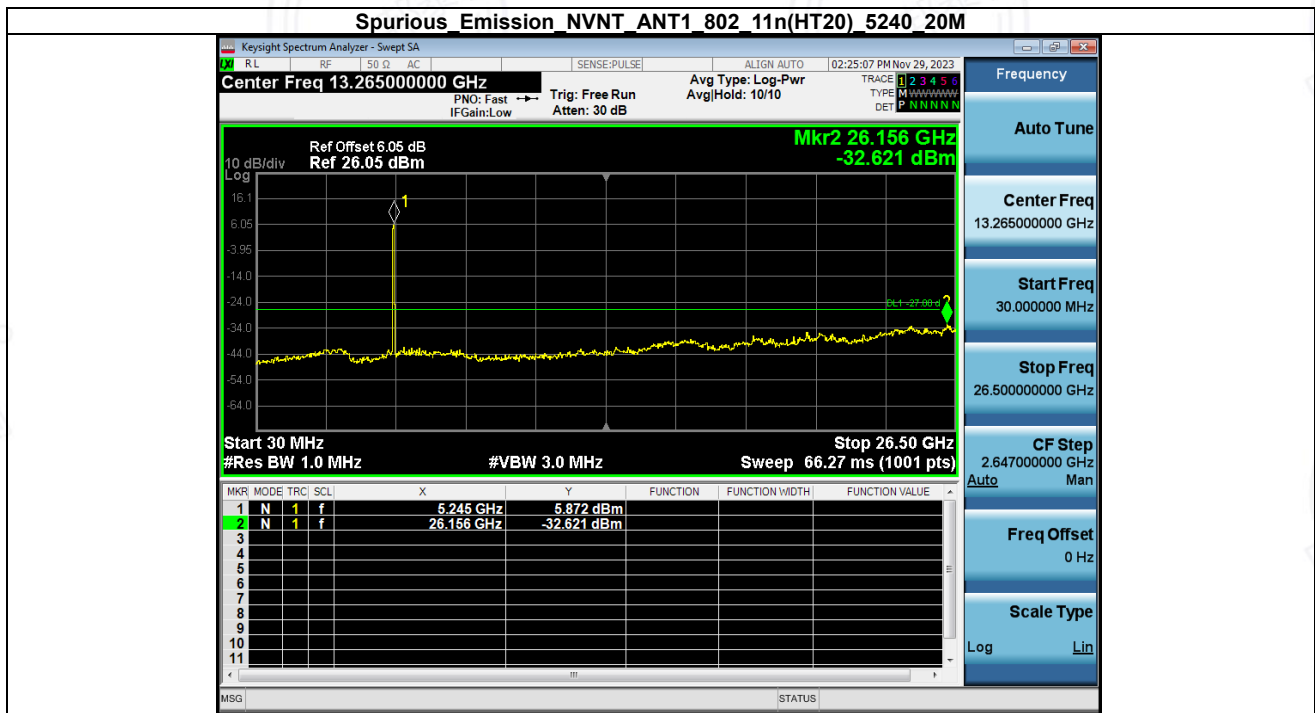
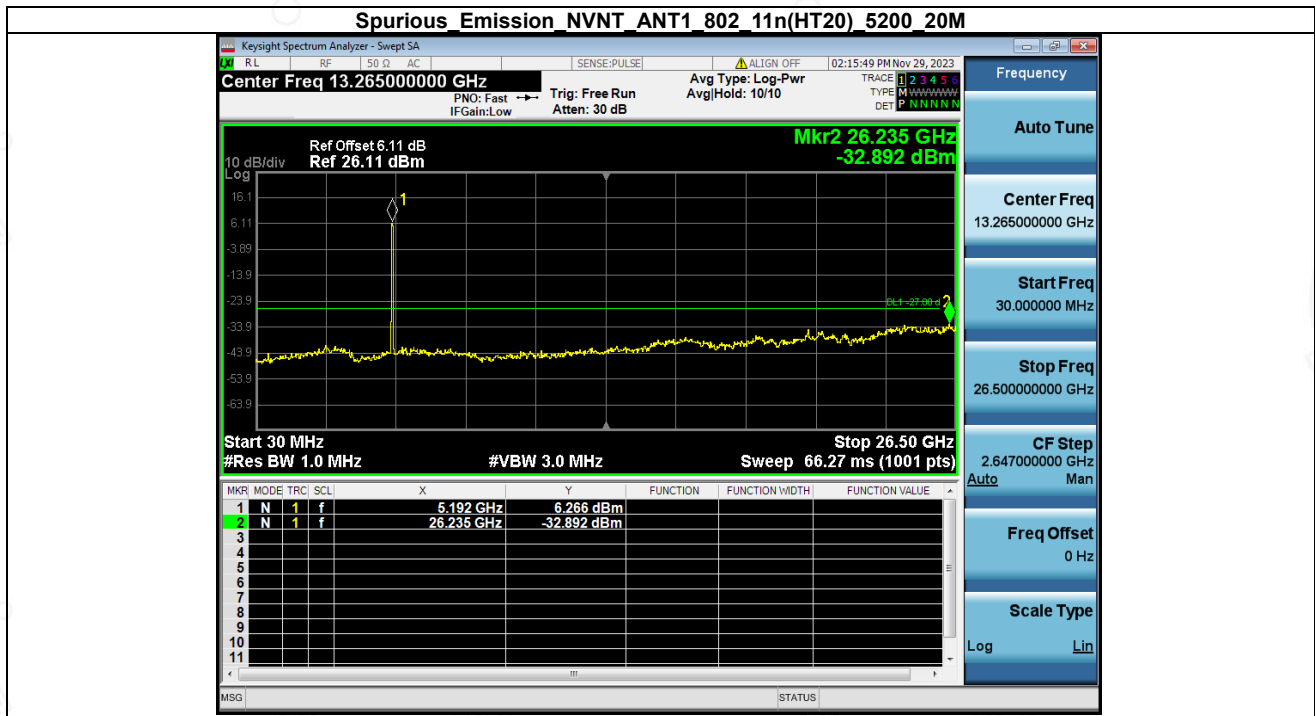


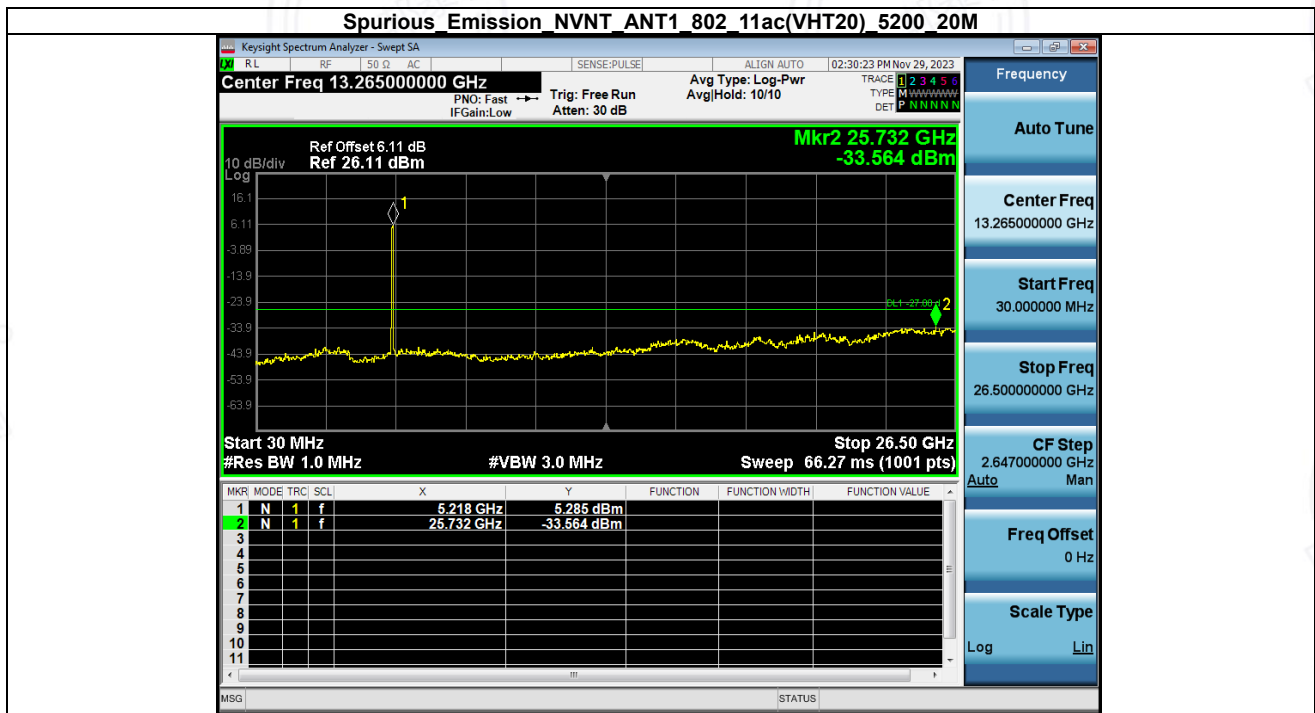
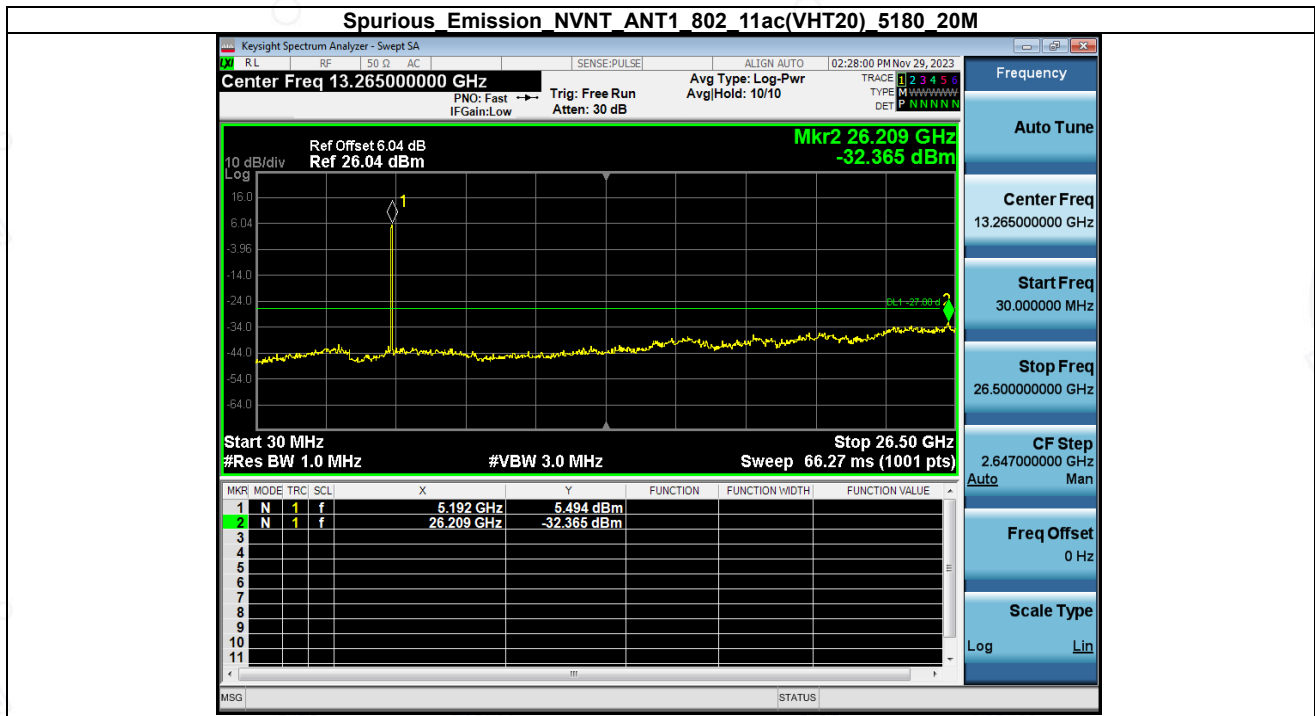


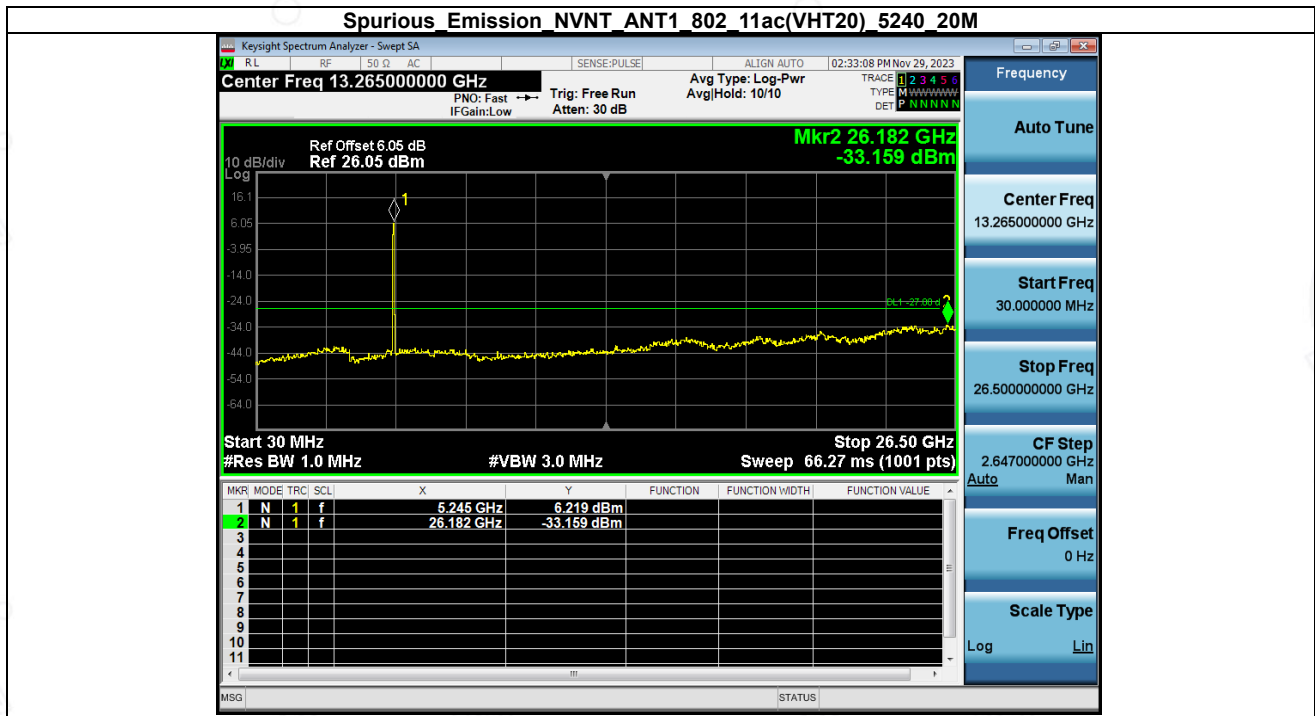
Spurious Emission_NVNT_ANT1_802_11n(HT20)_5180_20M





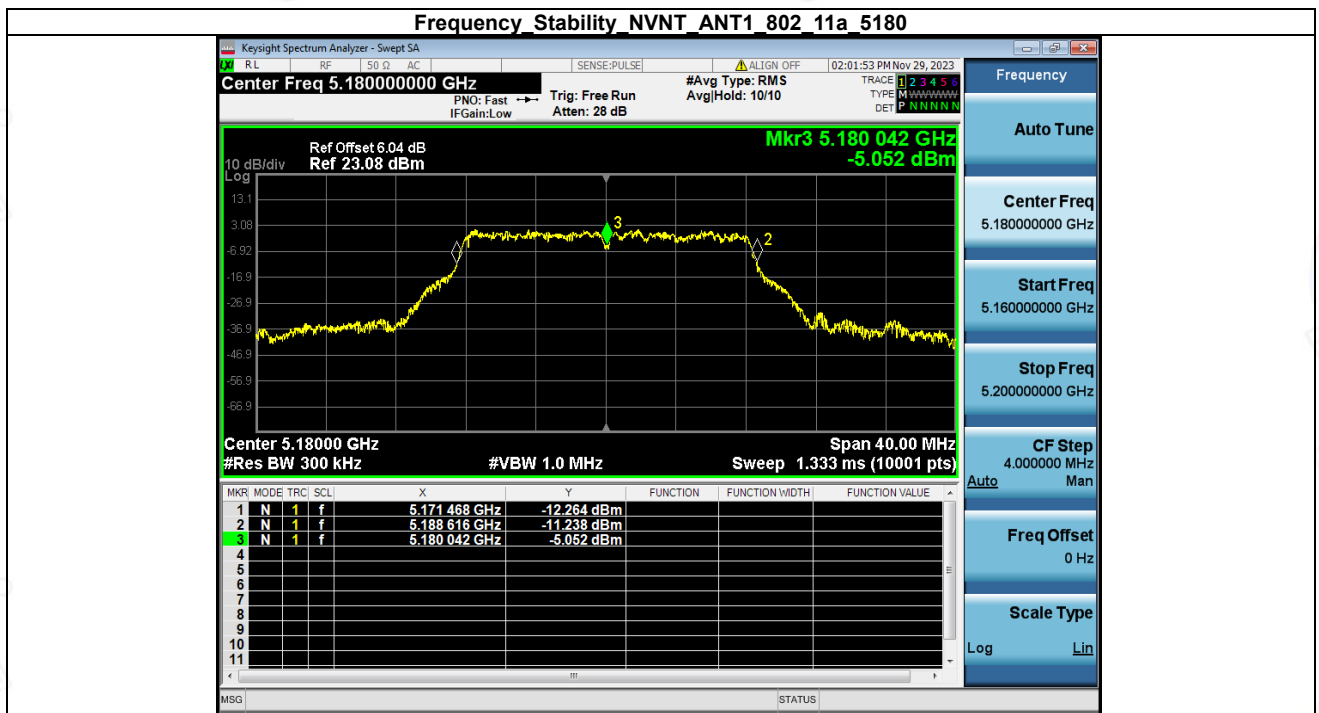






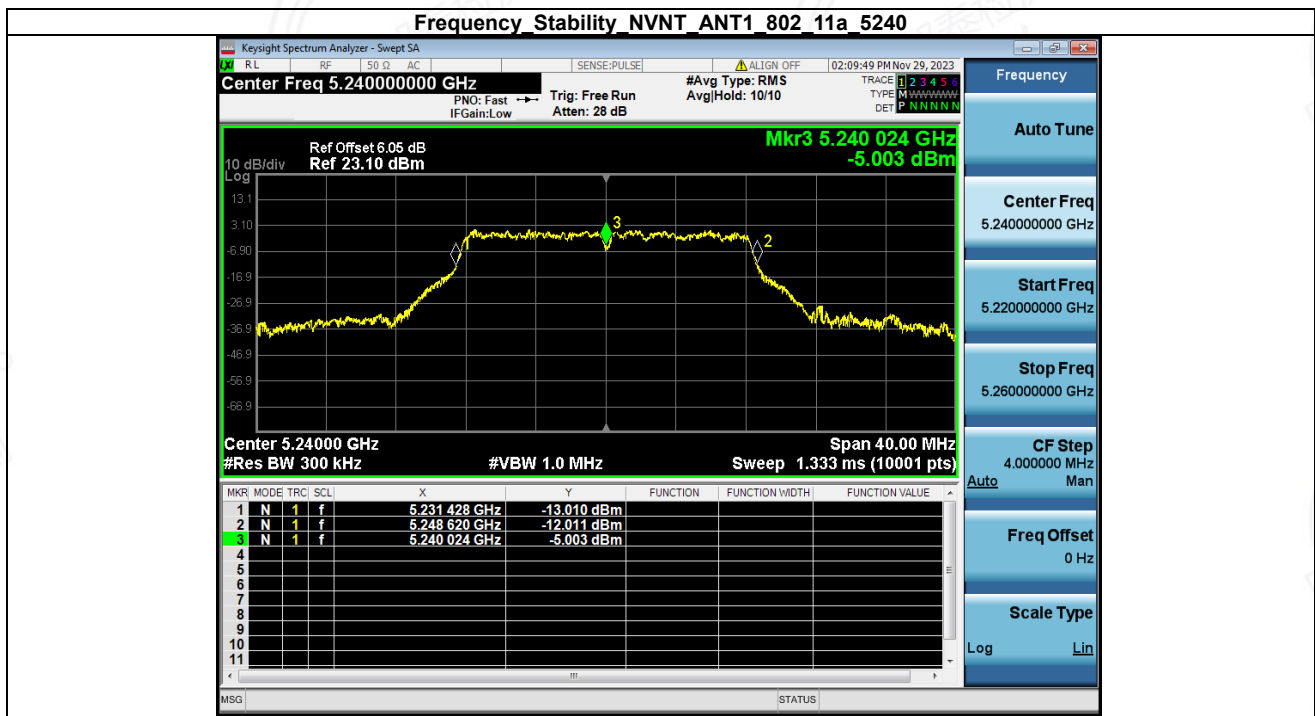
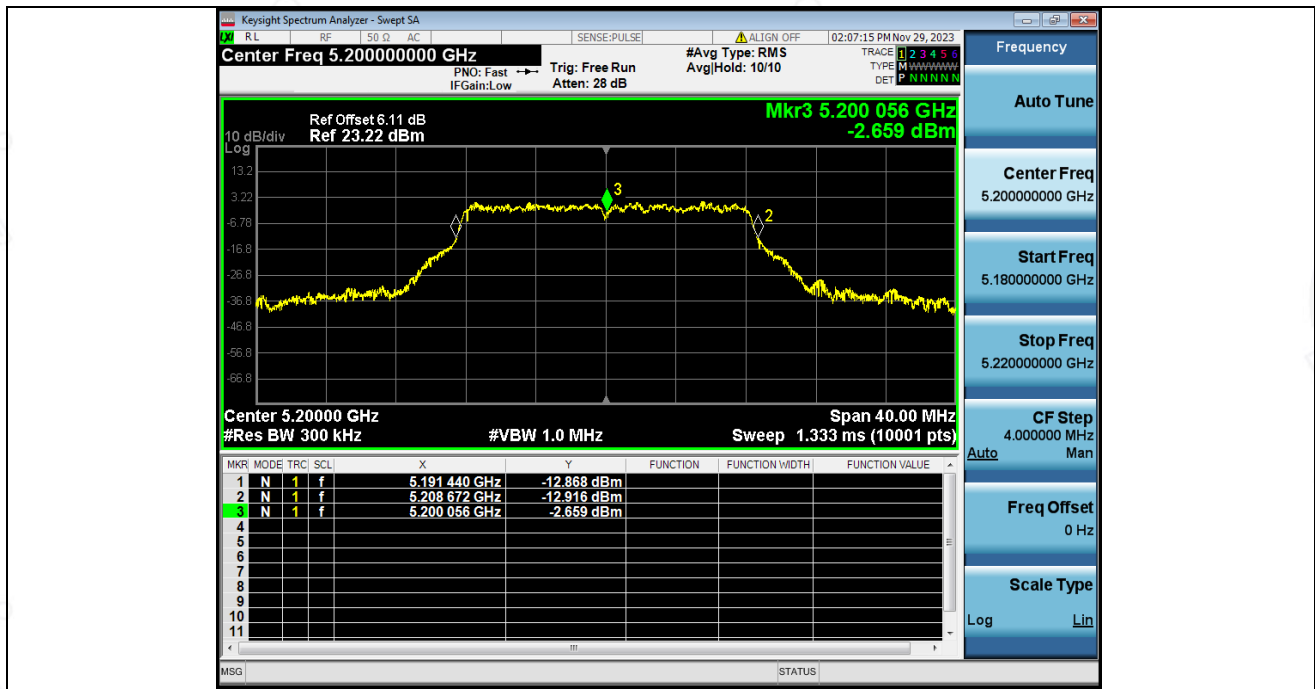
7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.042	5171.468	5188.616	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5200.056	5191.440	5208.672	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.024	5231.428	5248.620	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5179.996	5170.832	5189.160	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5200.022	5190.804	5209.240	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5240.012	5230.824	5249.200	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5179.994	5170.868	5189.120	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5200.052	5190.844	5209.260	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5239.998	5230.824	5249.172	5150~5250	Pass



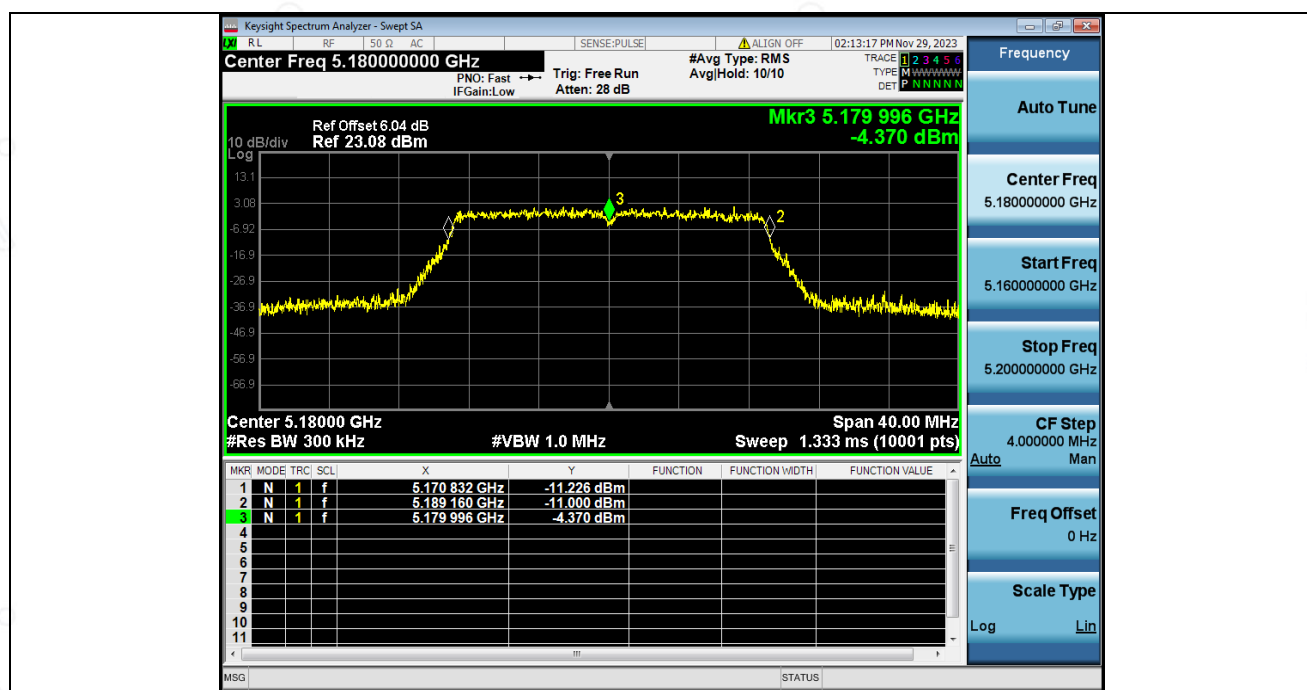
Frequency Stability NVNT ANT1 802 11a 5200

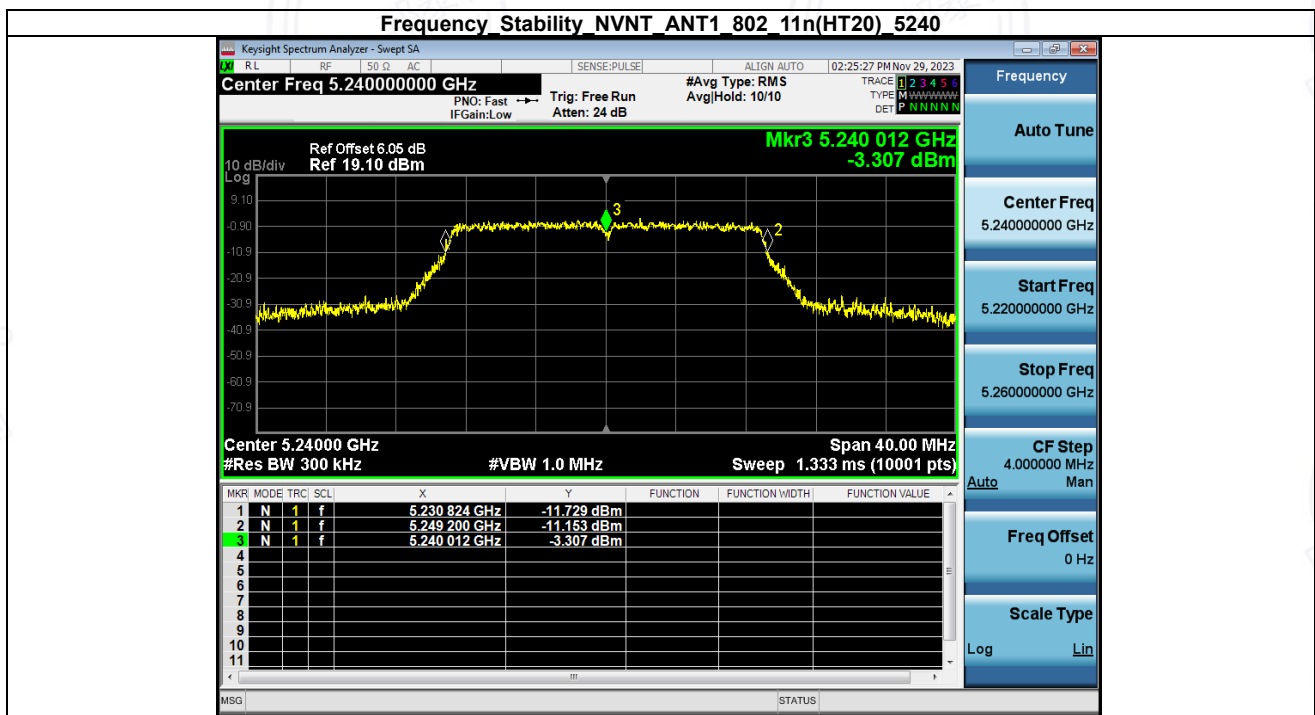
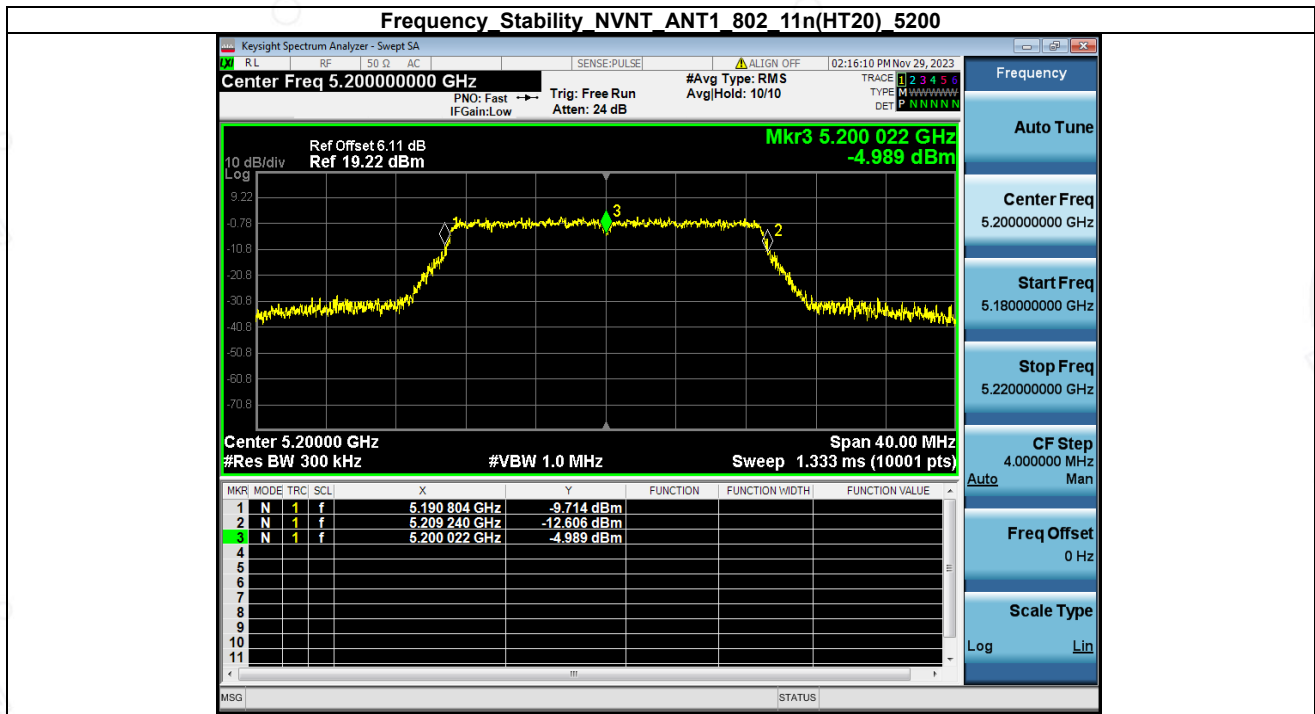




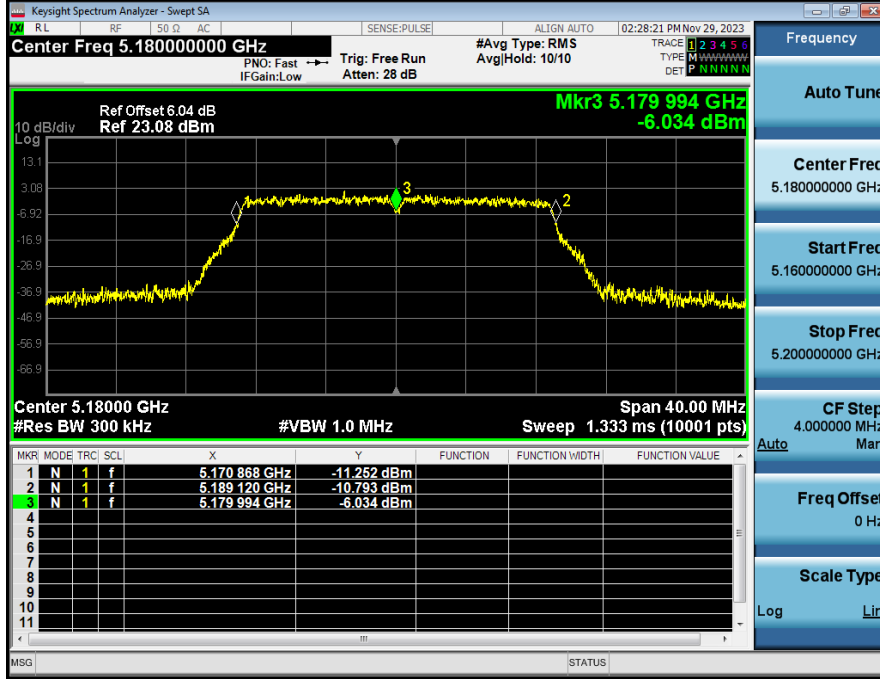
Frequency Stability NVNT ANT1 802 11n(HT20) 5180







Frequency Stability NVNT_ANT1_802_11ac(VHT20) 5180



Frequency Stability NVNT_ANT1_802_11ac(VHT20) 5200

