

Table of Contents

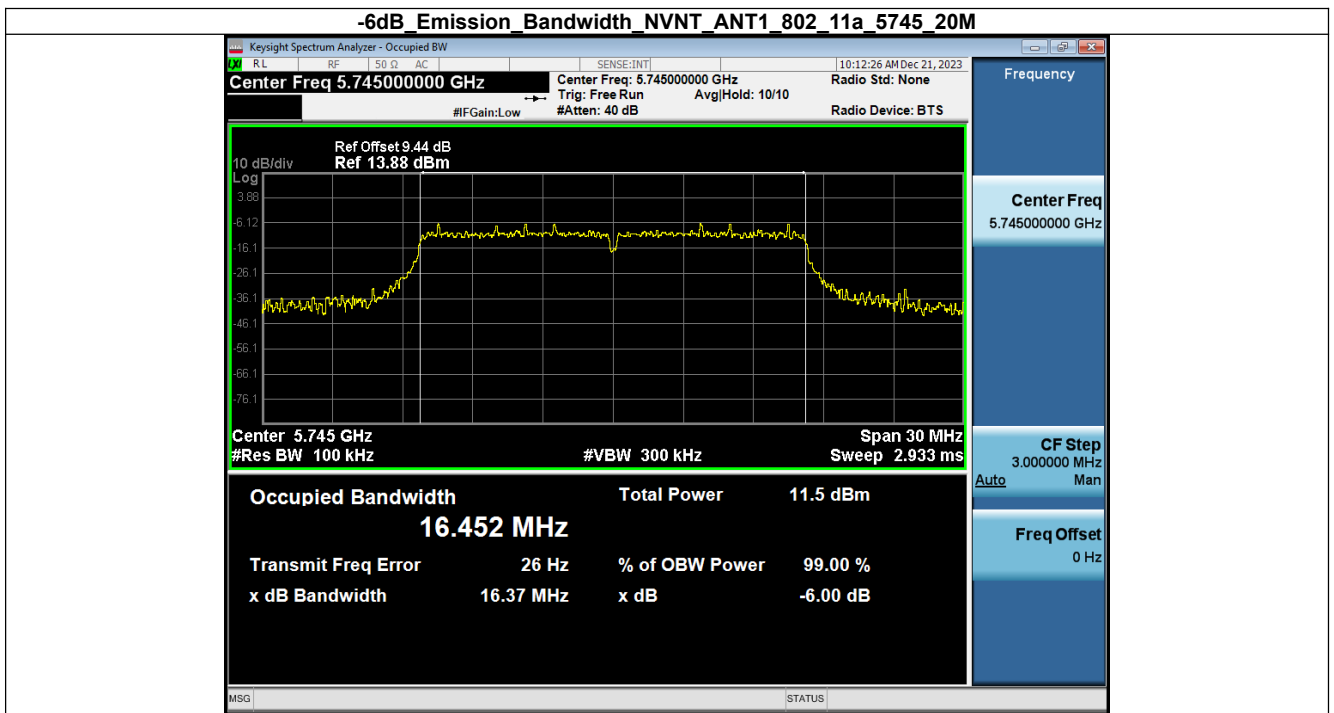
1. -6dB Emission Bandwidth	2
2. -26dB and 99% Emission Bandwidth	7
3. Duty Cycle	15
4. Maximum Conducted Output Power	19
5. Power Spectral Density	23
6. Bandedge	28
8. Frequency Stability	32

FCC ID WIFI5.8

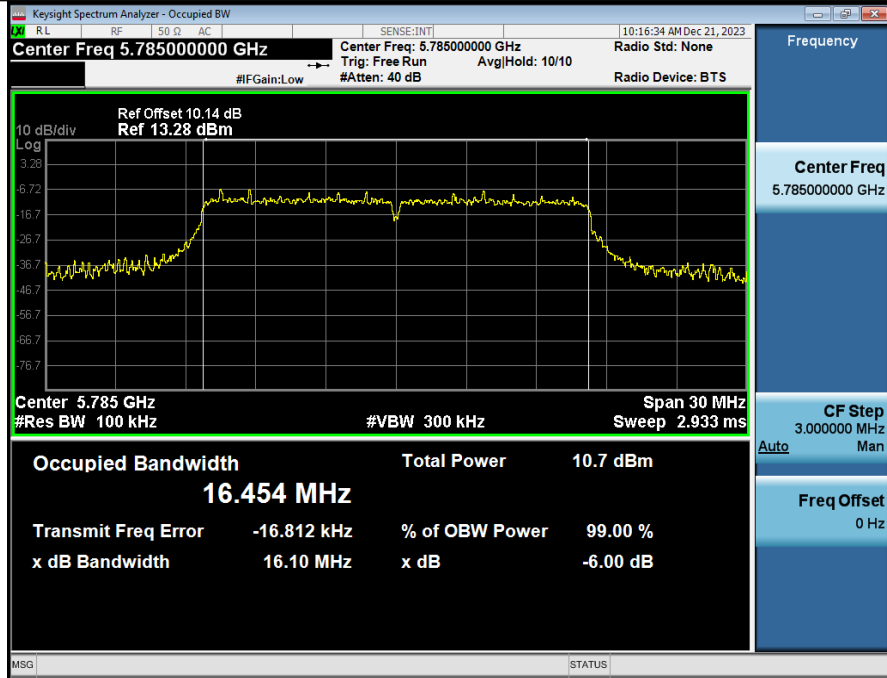
FCC_5.8G_WIFI (Part15.407) Test Data

1. -6dB Emission Bandwidth

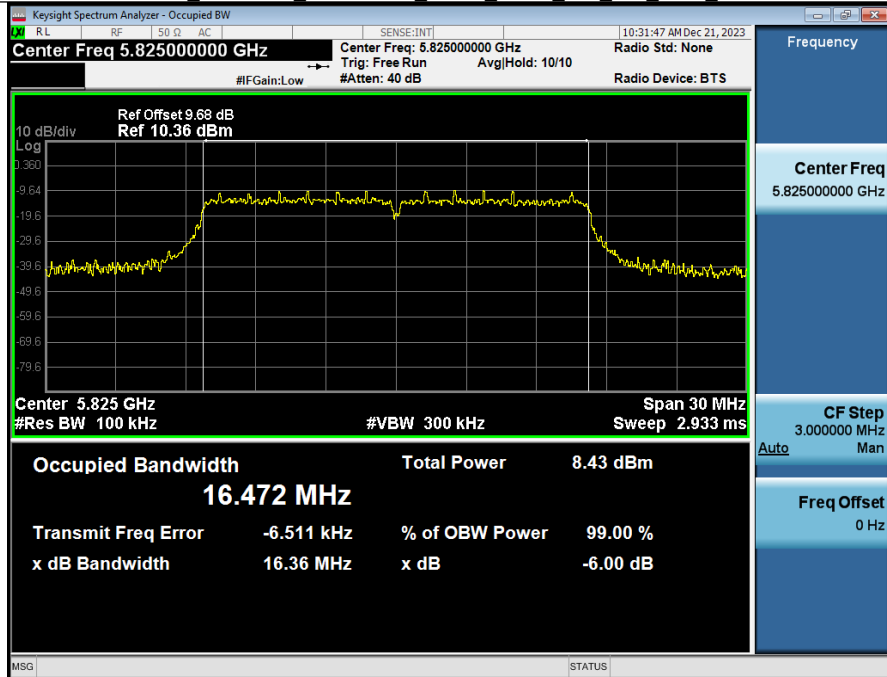
Condition	Antenna	Mode	Frequency(MHz)	-6dB_Emission_Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	LCH	5745.00	16.372	0.500	Pass
NVNT	ANT1	MCH	5785.00	16.097	0.500	Pass
NVNT	ANT1	HCH	5825.00	16.359	0.500	Pass
NVNT	ANT1	LCH	5745.00	17.388	0.500	Pass
NVNT	ANT1	MCH	5785.00	17.259	0.500	Pass
NVNT	ANT1	HCH	5825.00	17.332	0.500	Pass
NVNT	ANT1	LCH	5755.00	35.473	0.500	Pass
NVNT	ANT1	HCH	5795.00	35.685	0.500	Pass



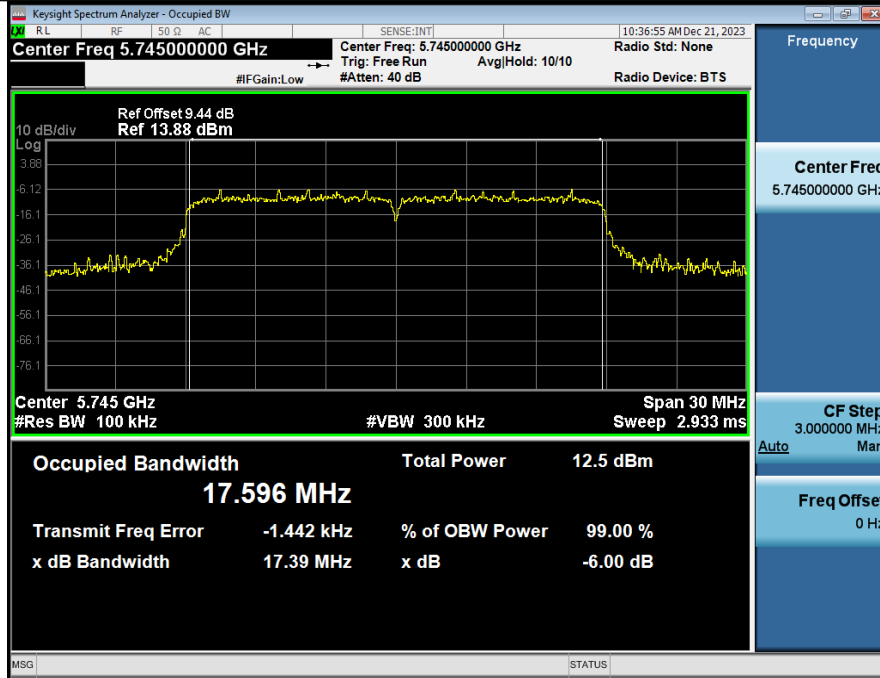
-6dB Emission Bandwidth NVNT_ANT1_802_11a_5785_20M



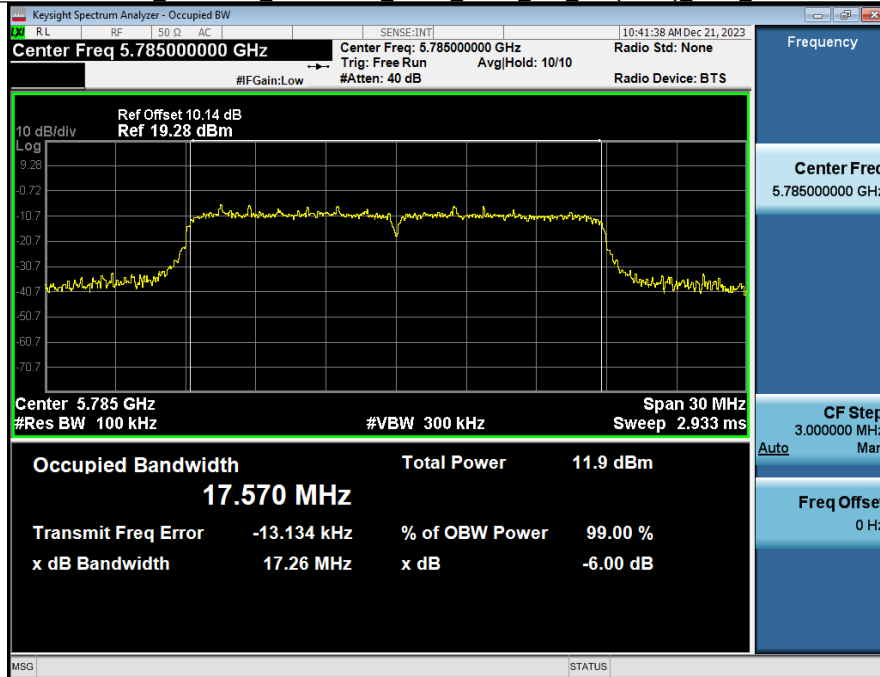
-6dB Emission Bandwidth NVNT_ANT1_802_11a_5825_20M



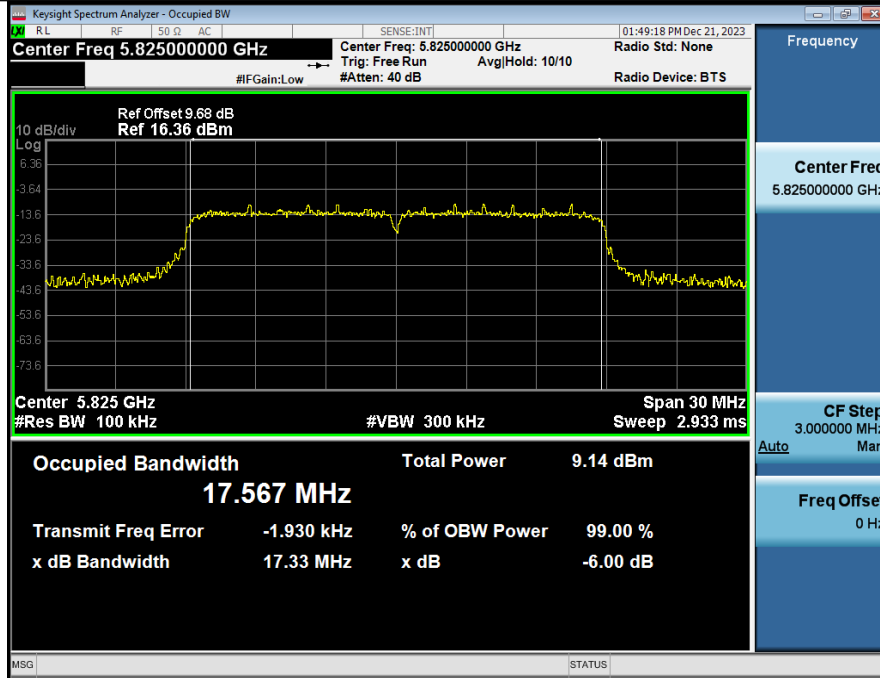
-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT20) 5745_20M



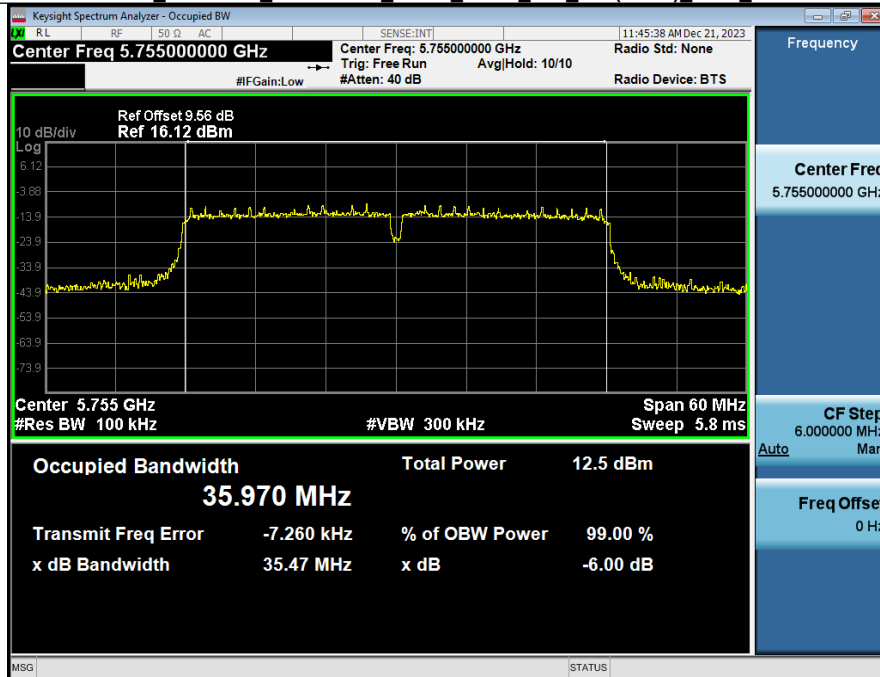
-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT20) 5785_20M



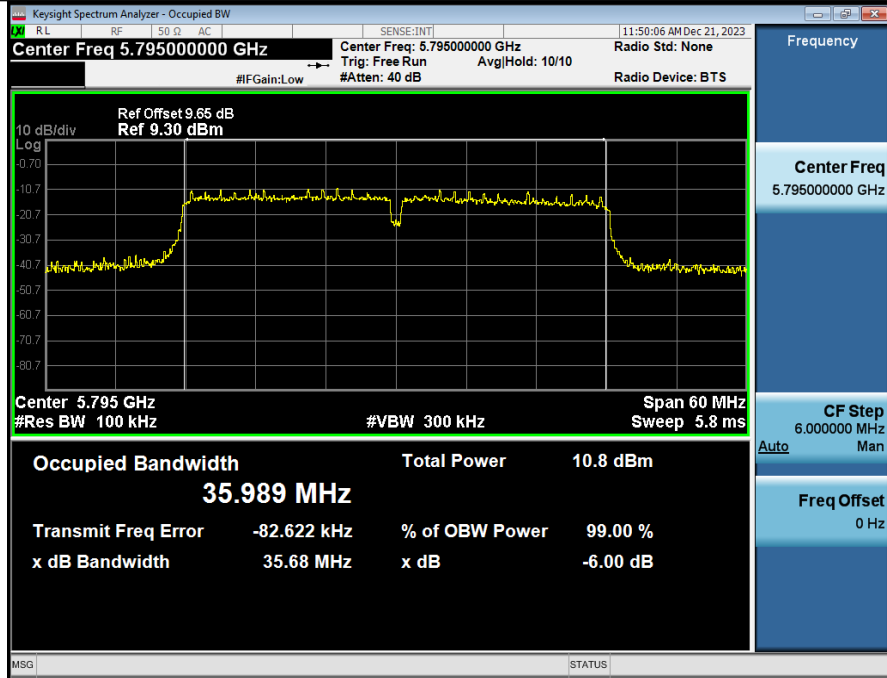
-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT20)_5825_20M



-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT40)_5755_40M

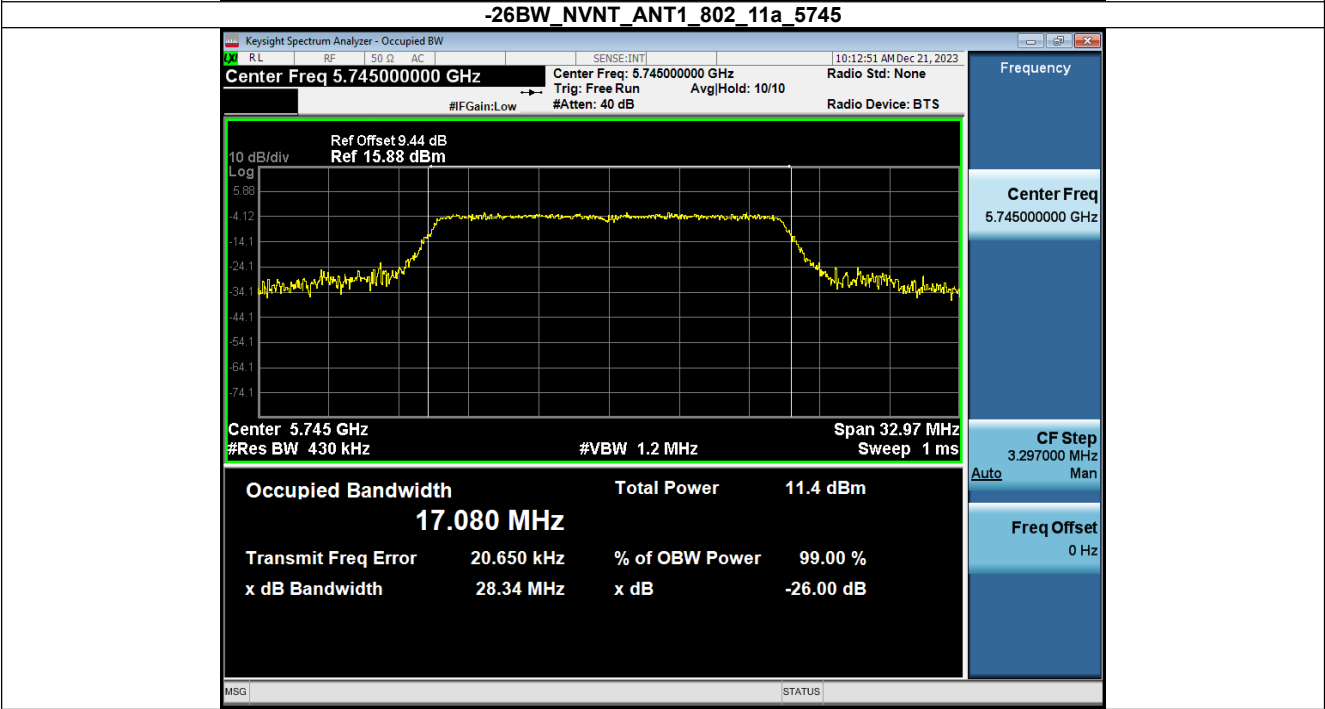
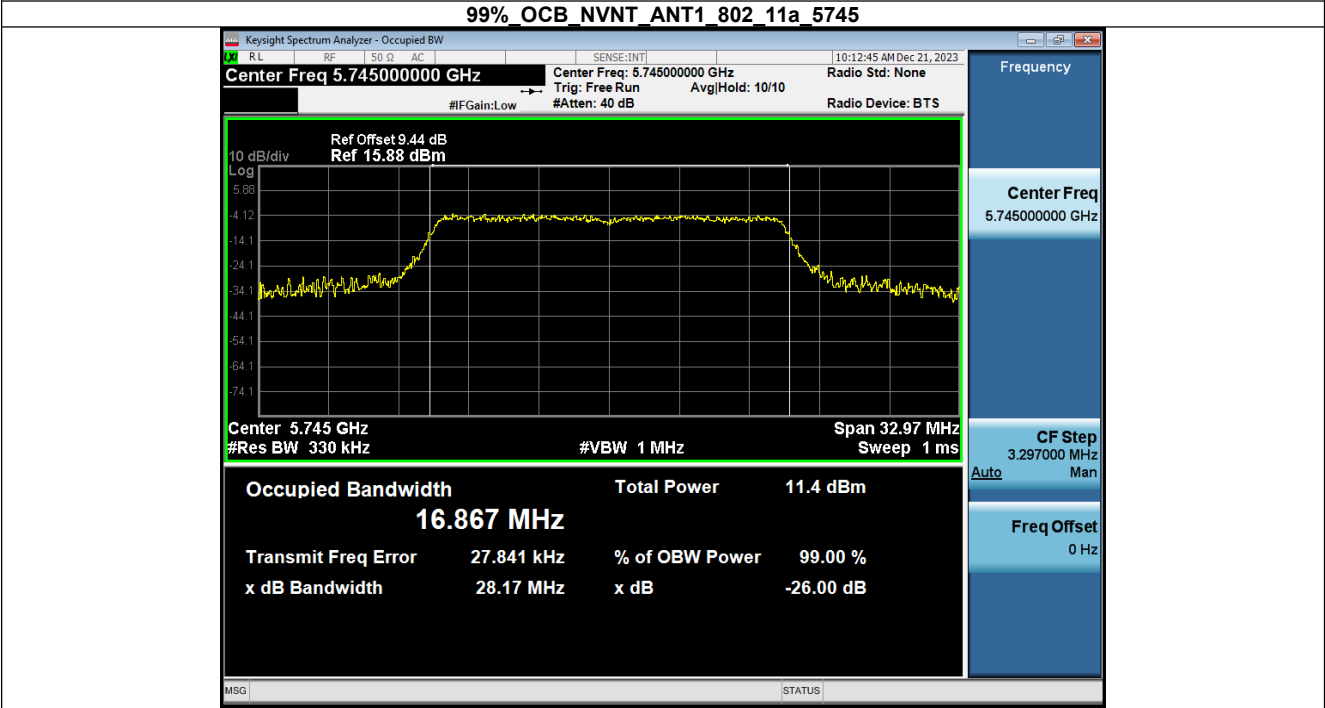


-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT40)_5795_40M

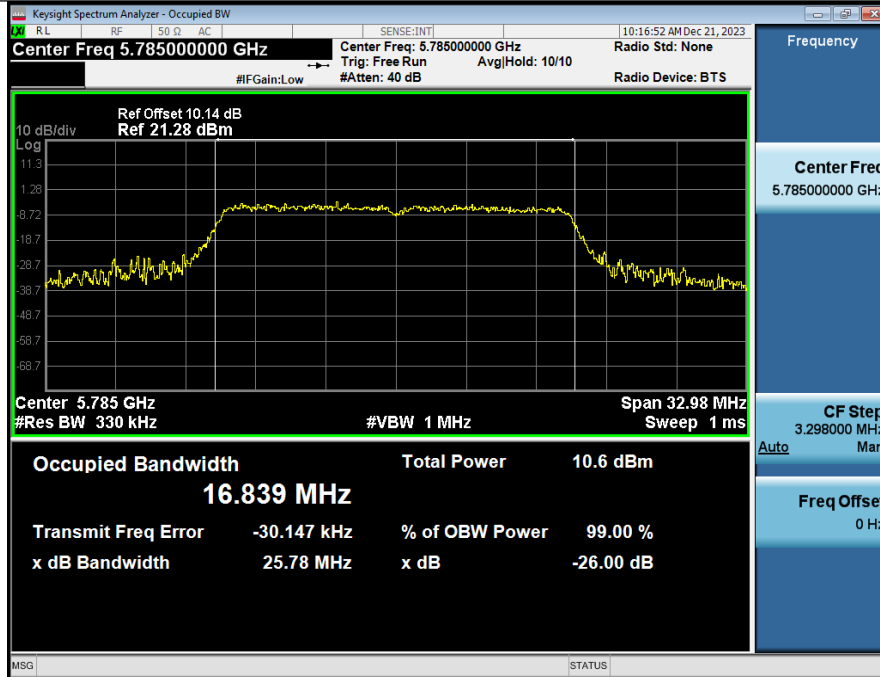


2. -26dB and 99% Emission Bandwidth

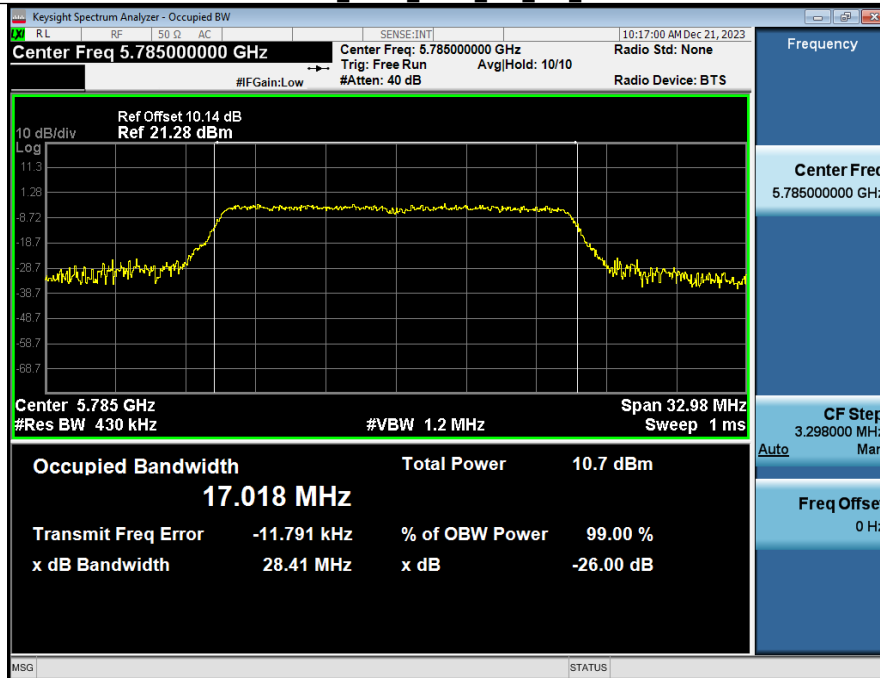
Condition	Antenna	Modulation	Frequency(MHz)	26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	28.34	16.87
NVNT	ANT1	802.11a	5785.00	28.41	16.84
NVNT	ANT1	802.11a	5825.00	29.18	16.86
NVNT	ANT1	802.11n(HT20)	5745.00	28.83	17.85
NVNT	ANT1	802.11n(HT20)	5785.00	31.34	17.85
NVNT	ANT1	802.11n(HT20)	5825.00	31.33	17.84
NVNT	ANT1	802.11n(HT40)	5755.00	47.59	36.27
NVNT	ANT1	802.11n(HT40)	5795.00	52.77	36.37



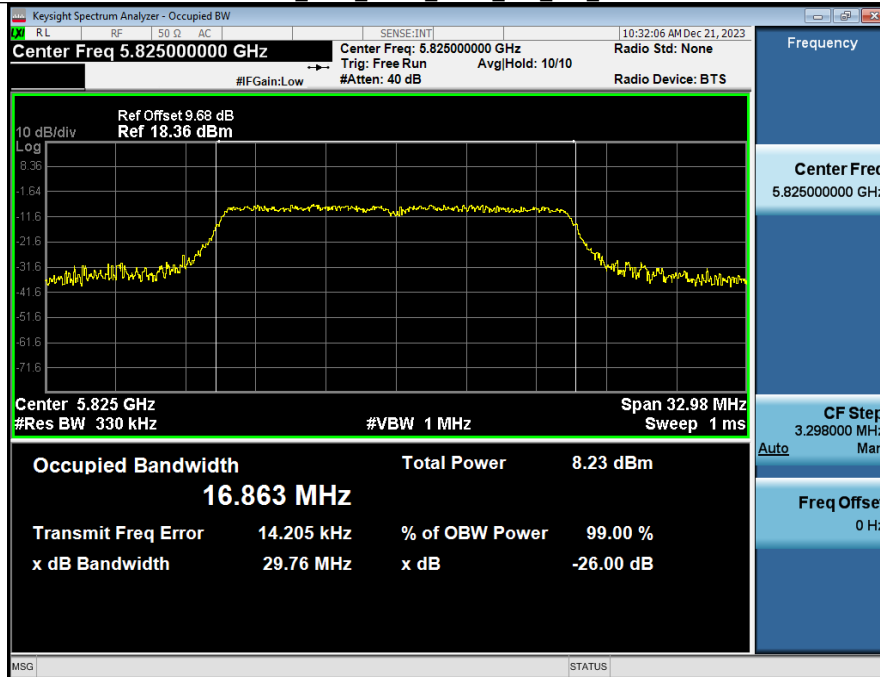
99%_OCB_NVNT_ANT1_802_11a_5785



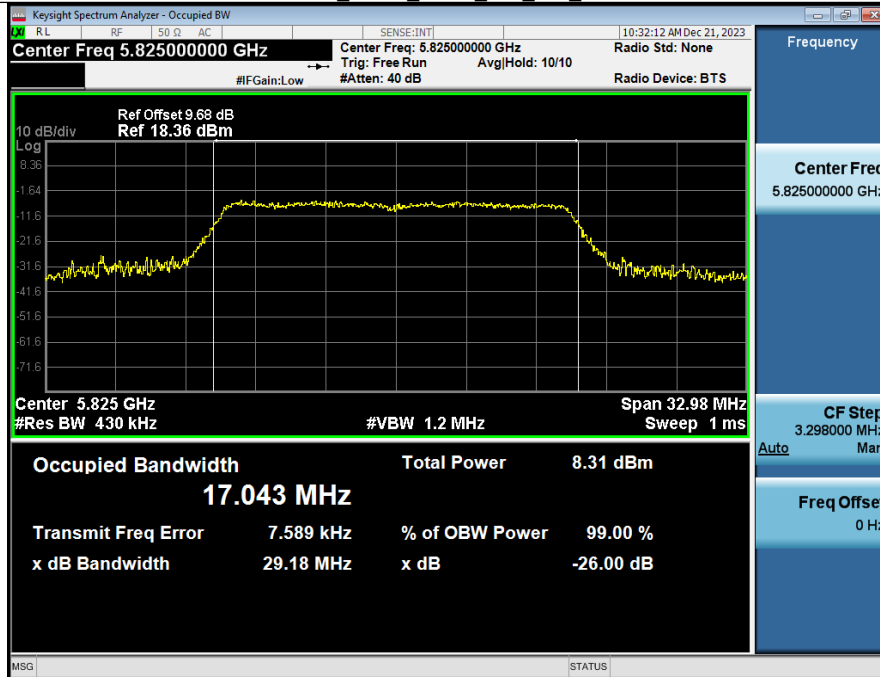
-26BW_NVNT_ANT1_802_11a_5785



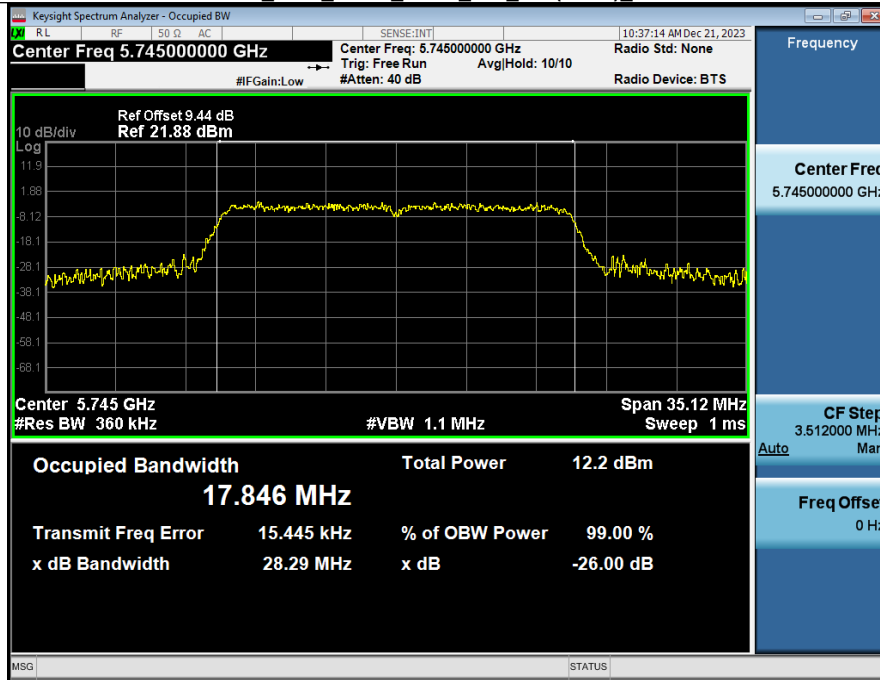
99%_OCB_NVNT_ANT1_802_11a_5825



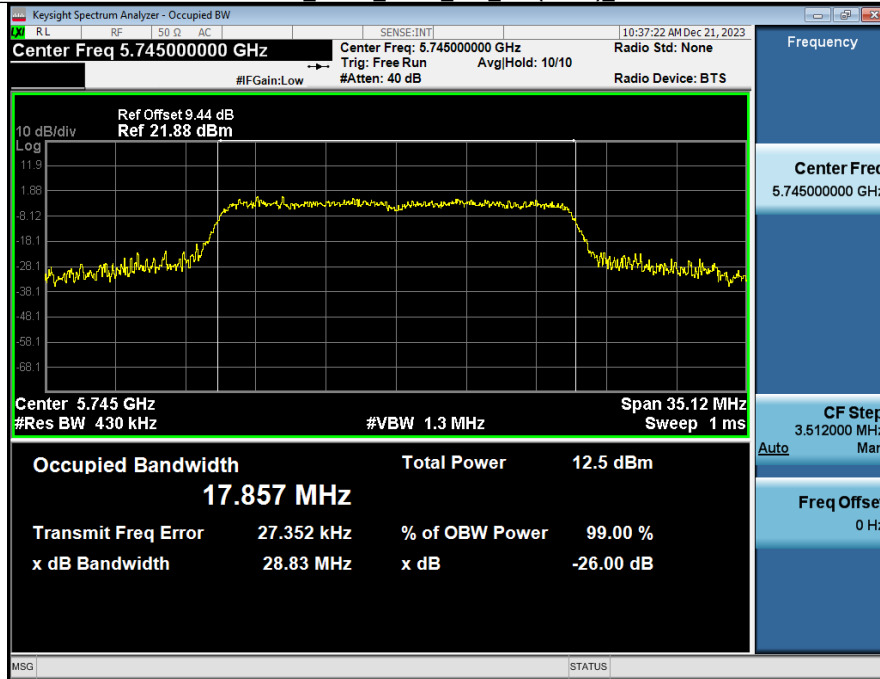
-26BW_NVNT_ANT1_802_11a_5825



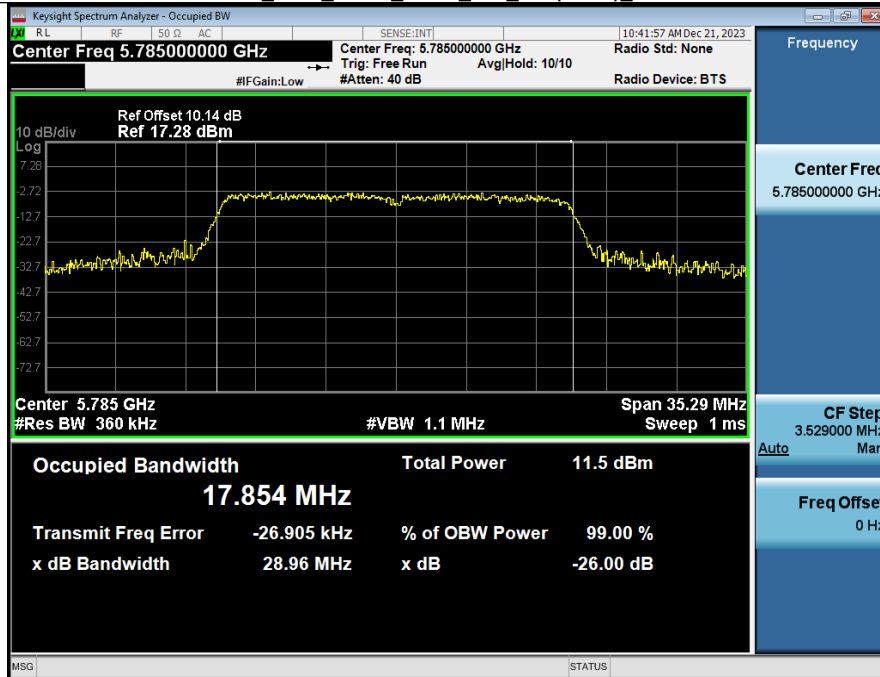
99%_OCB_NVNT_ANT1_802_11n(HT20)_5745



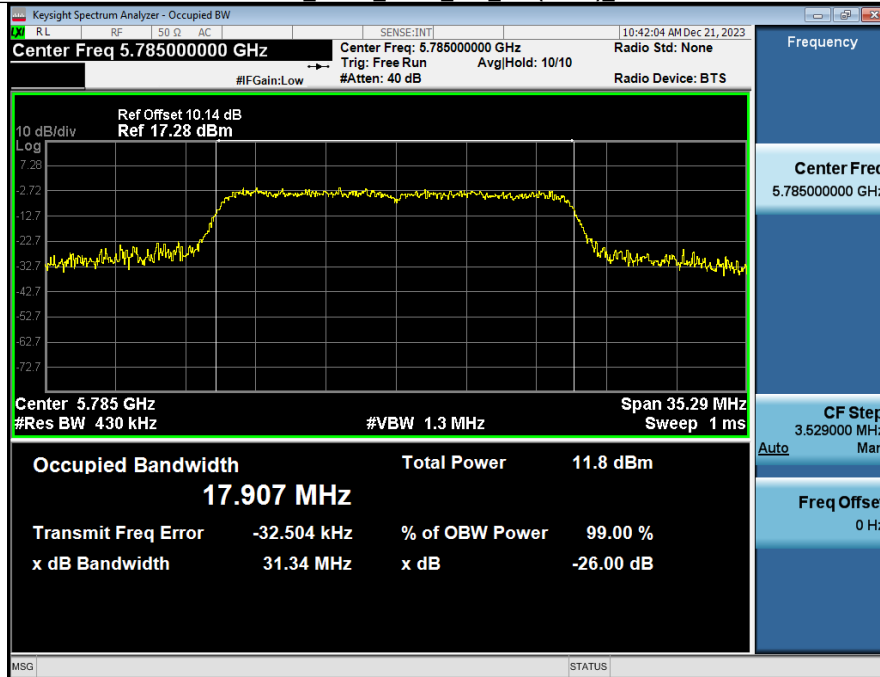
-26BW_NVNT_ANT1_802_11n(HT20)_5745



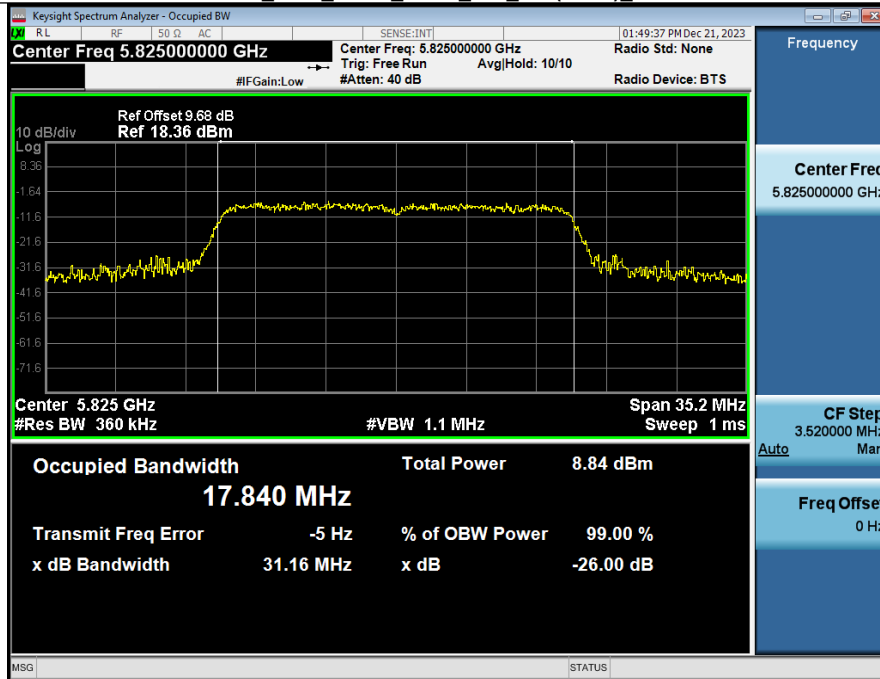
99%_OCB_NVNT_ANT1_802_11n(HT20)_5785



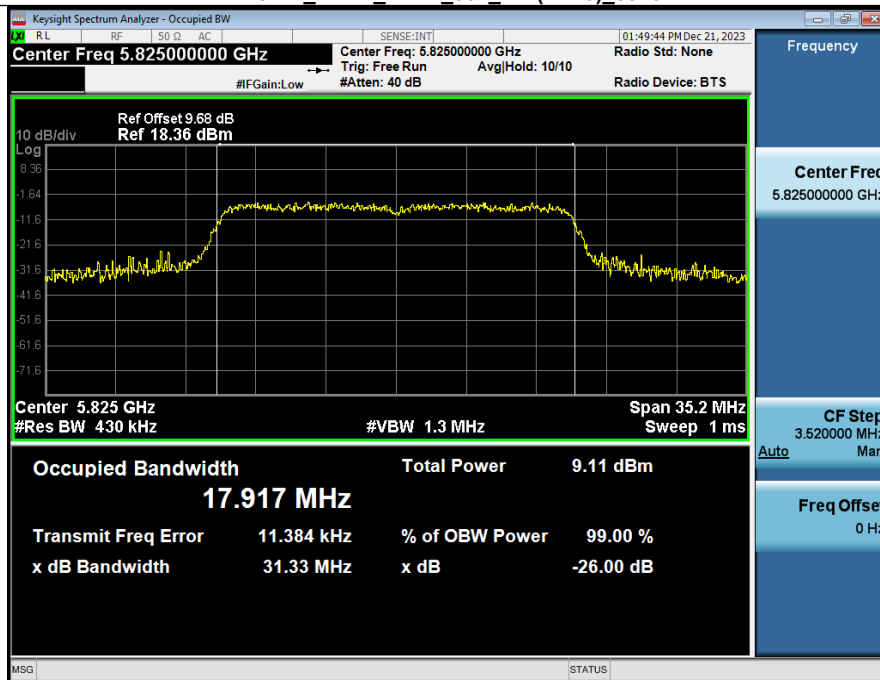
-26BW_NVNT_ANT1_802_11n(HT20)_5785



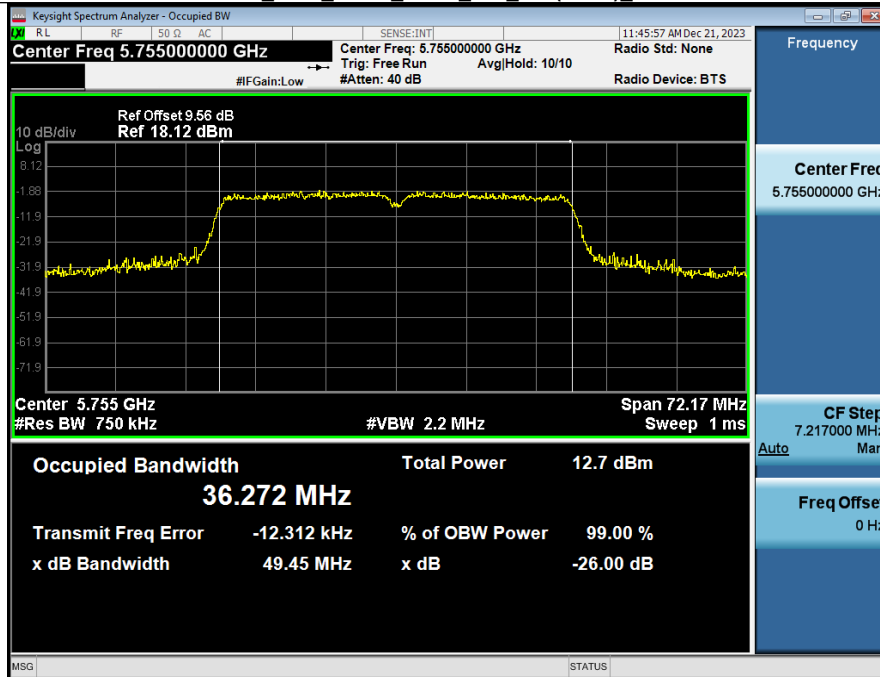
99%_OCB_NVNT_ANT1_802_11n(HT20)_5825



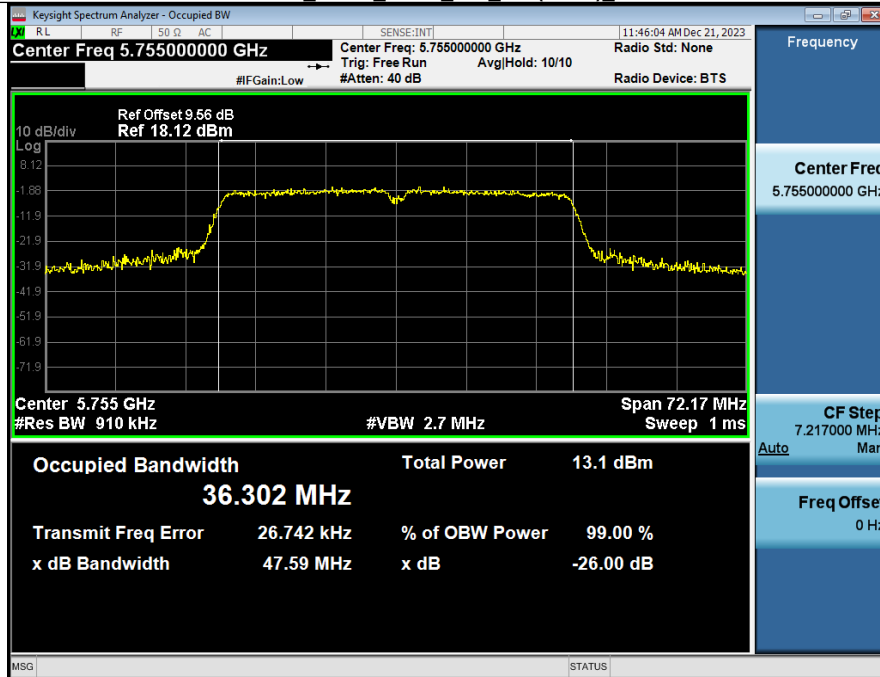
-26BW_NVNT_ANT1_802_11n(HT20)_5825



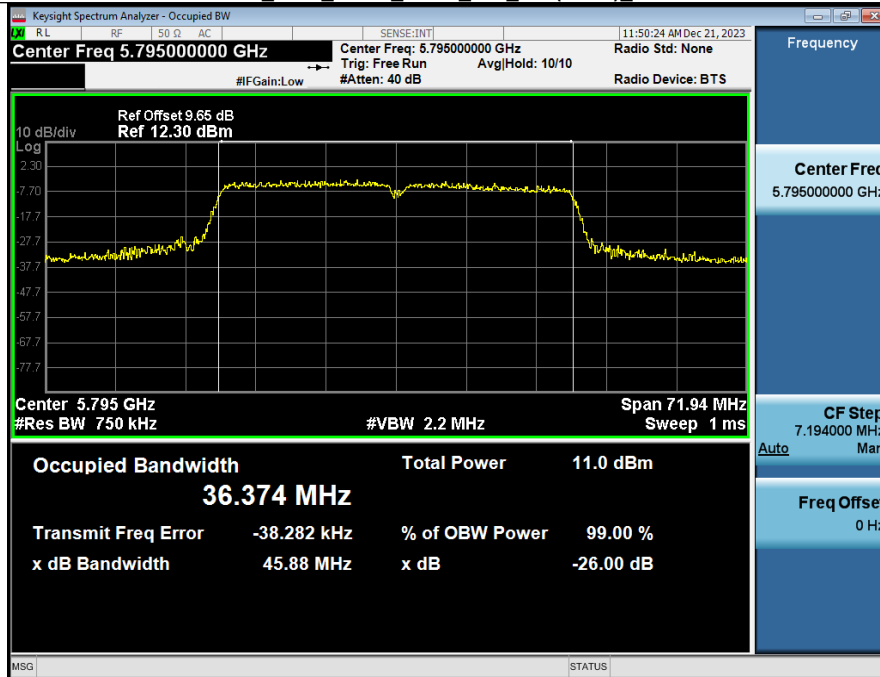
99%_OCB_NVNT_ANT1_802_11n(HT40)_5755



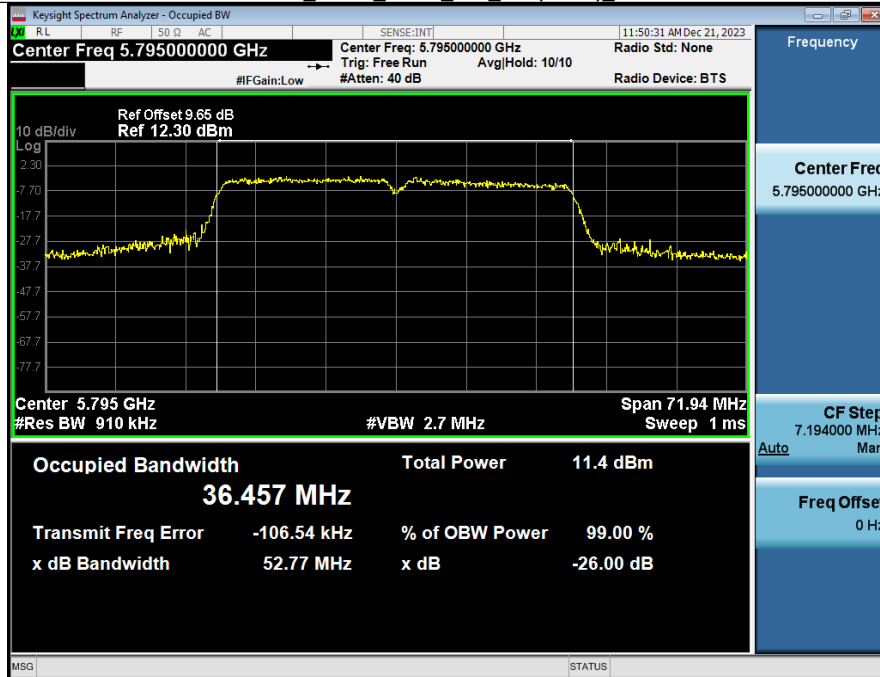
-26BW_NVNT_ANT1_802_11n(HT40)_5755



99%_OCB_NVNT_ANT1_802_11n(HT40)_5795

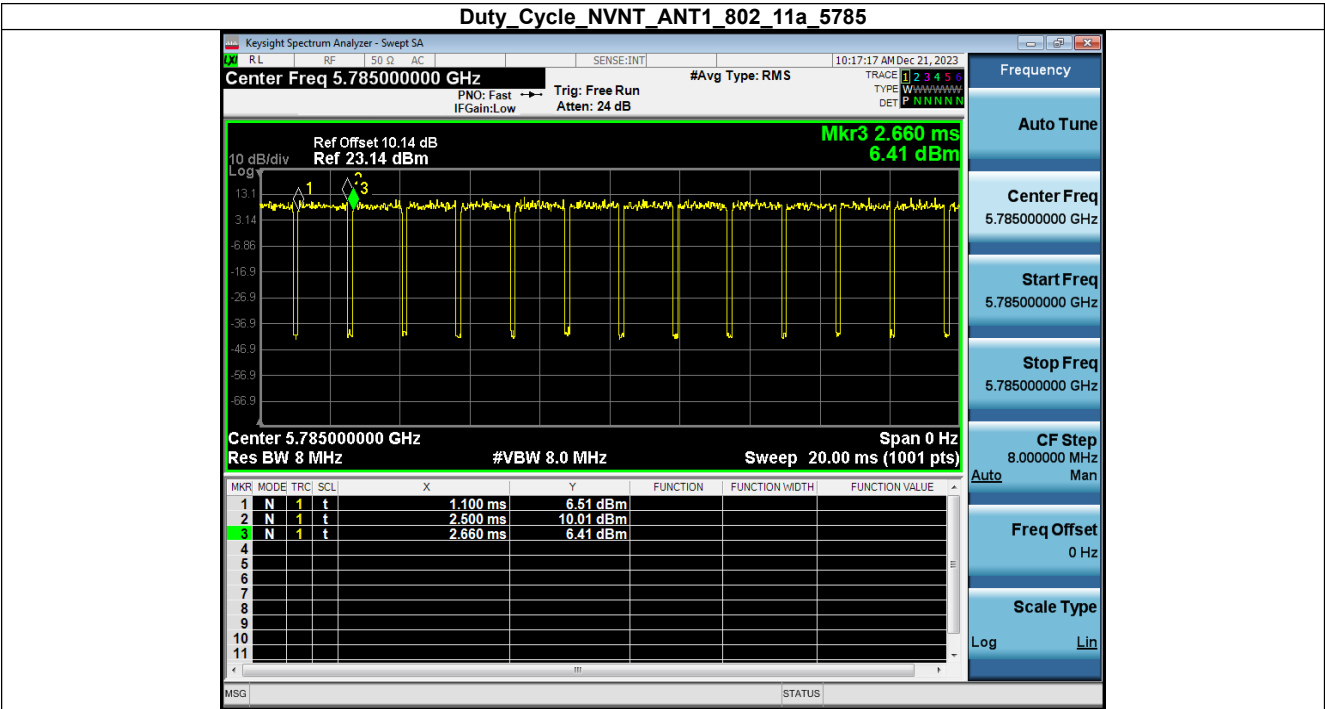
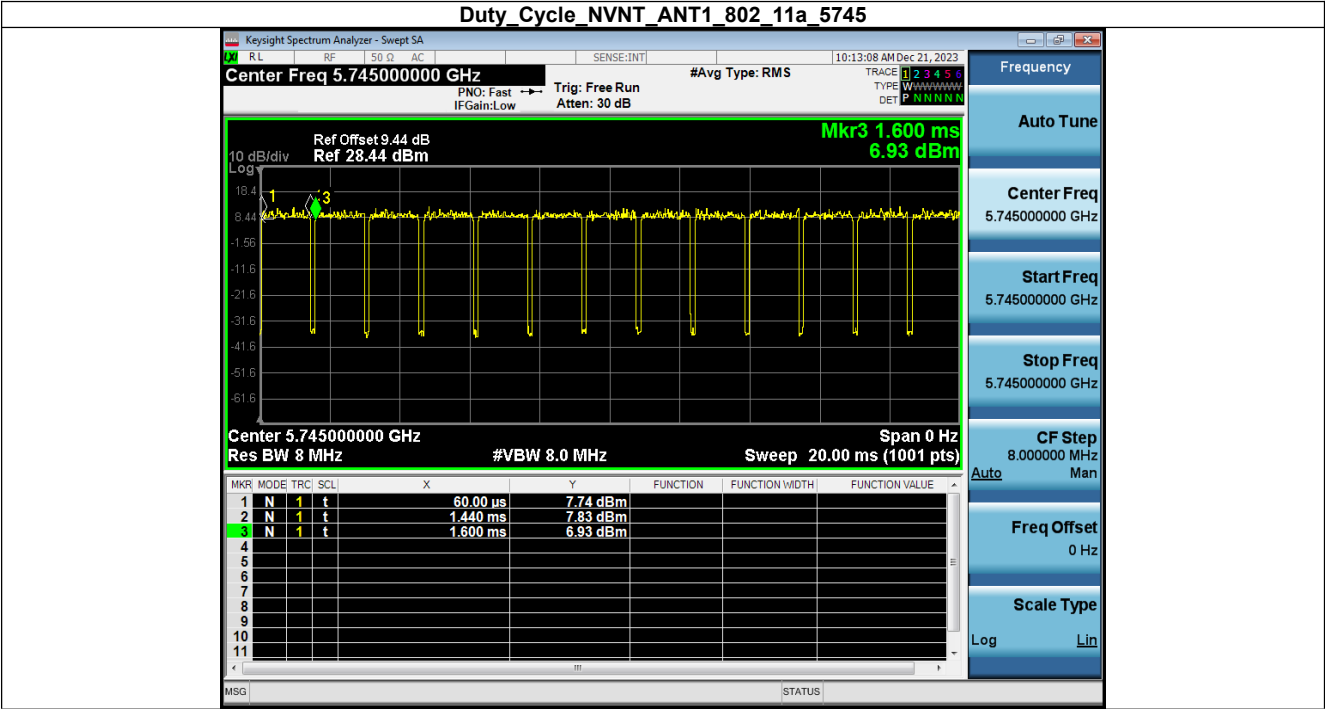


-26BW_NVNT_ANT1_802_11n(HT40)_5795

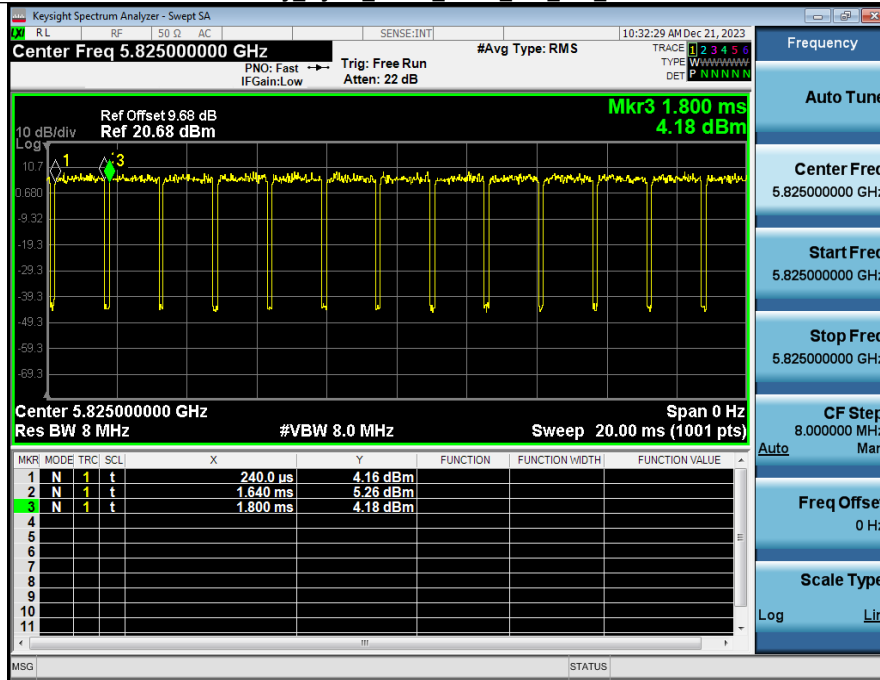


3. Duty Cycle

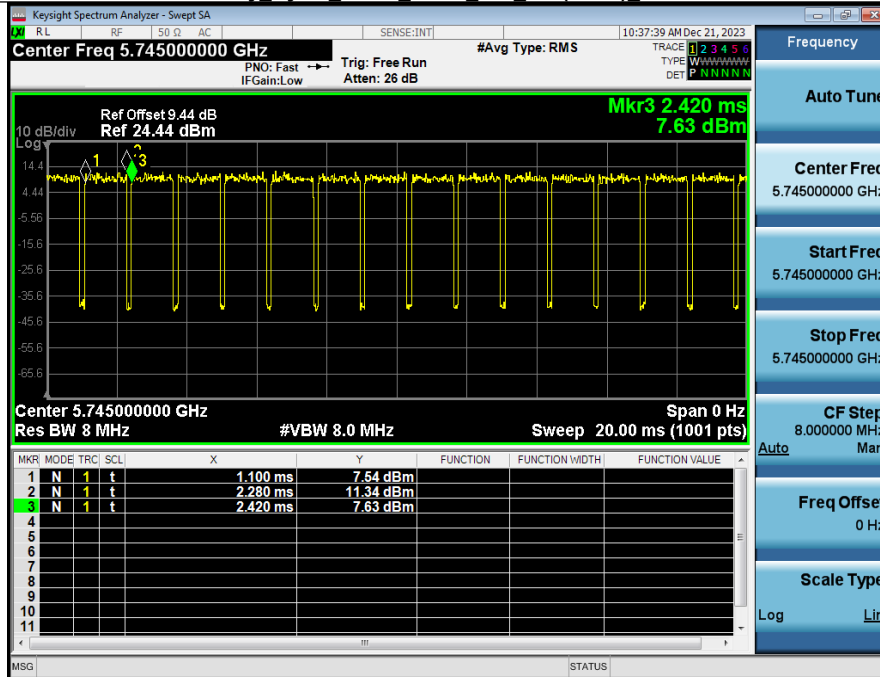
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	89.61	0.48
NVNT	ANT1	802.11a	5785.00	89.74	0.47
NVNT	ANT1	802.11a	5825.00	89.74	0.47
NVNT	ANT1	802.11n(HT20)	5745.00	89.39	0.49
NVNT	ANT1	802.11n(HT20)	5785.00	88.06	0.55
NVNT	ANT1	802.11n(HT20)	5825.00	88.06	0.55
NVNT	ANT1	802.11n(HT40)	5755.00	78.38	1.06
NVNT	ANT1	802.11n(HT40)	5795.00	78.38	1.06



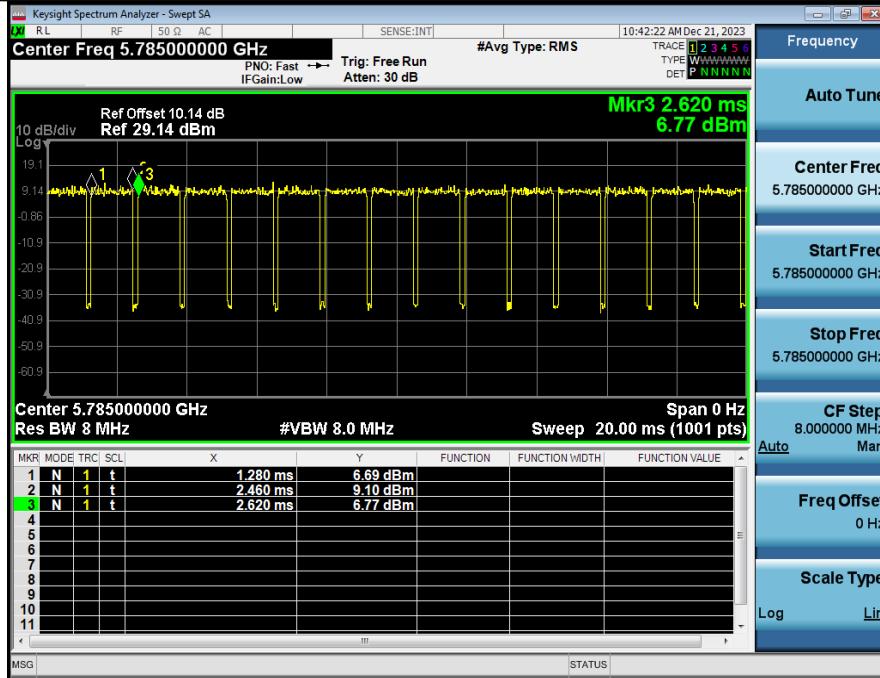
Duty Cycle NVNT_ANT1_802_11a_5825



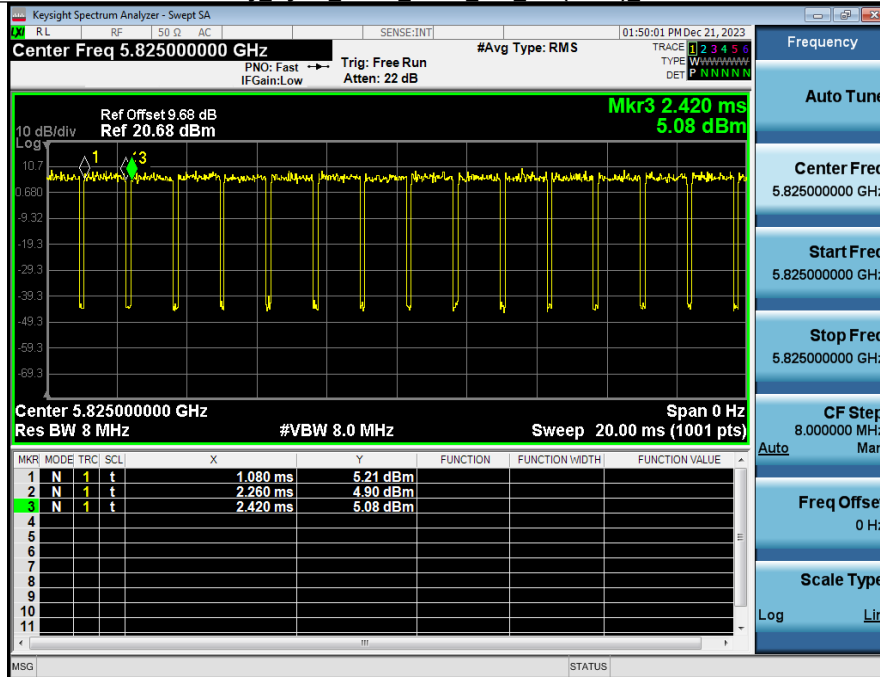
Duty Cycle NVNT_ANT1_802_11n(HT20)_5745



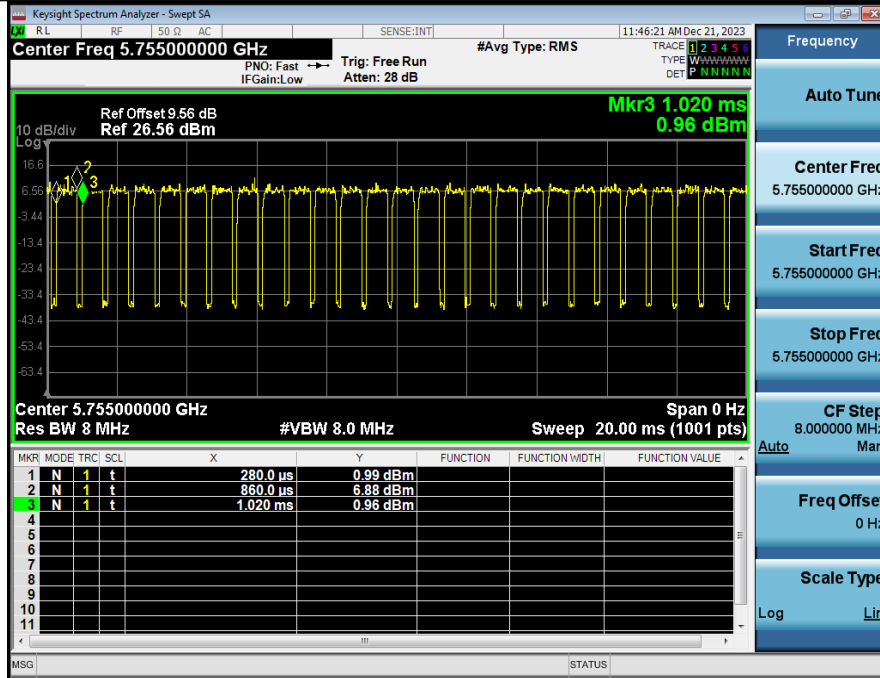
Duty Cycle NVNT_ANT1_802_11n(HT20)_5785



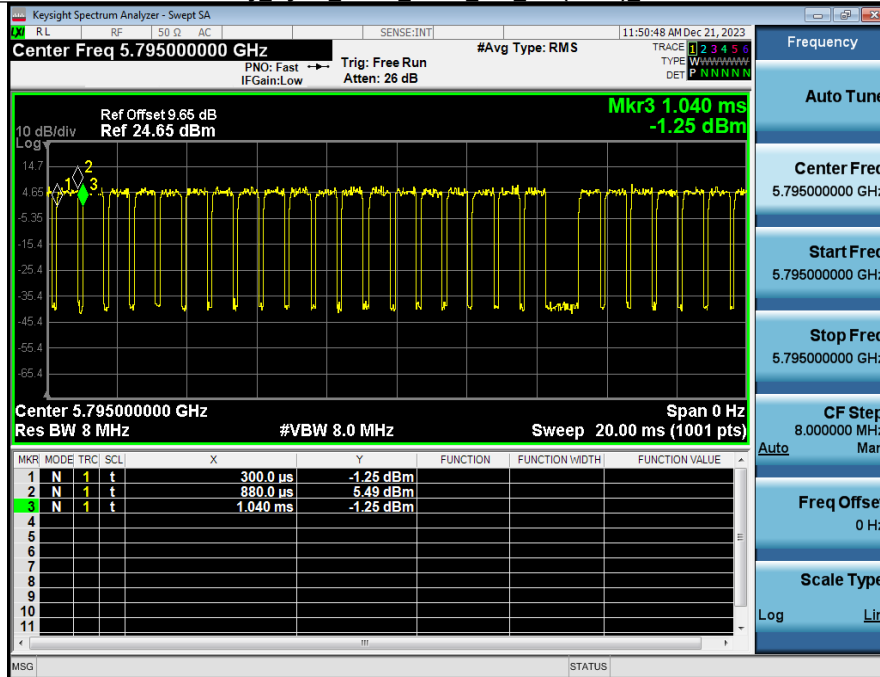
Duty Cycle NVNT_ANT1_802_11n(HT20)_5825



Duty Cycle NVNT_ANT1_802_11n(HT40)_5755

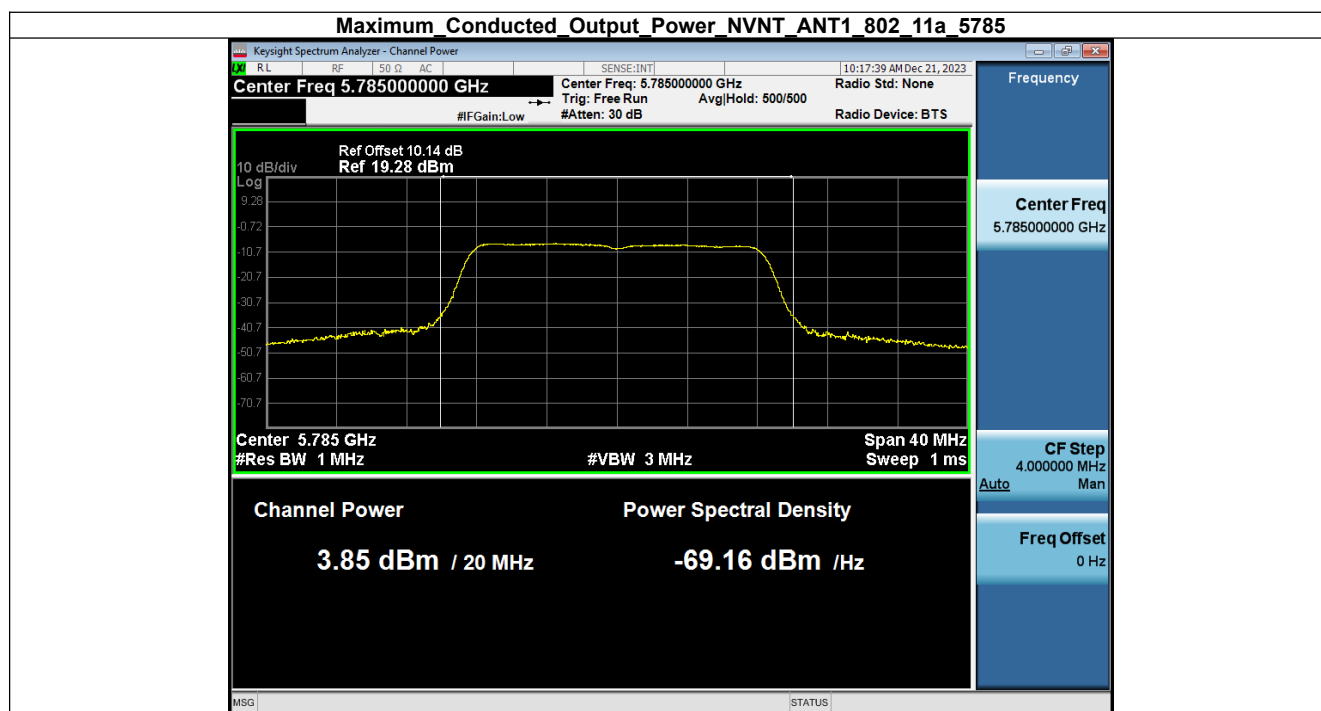
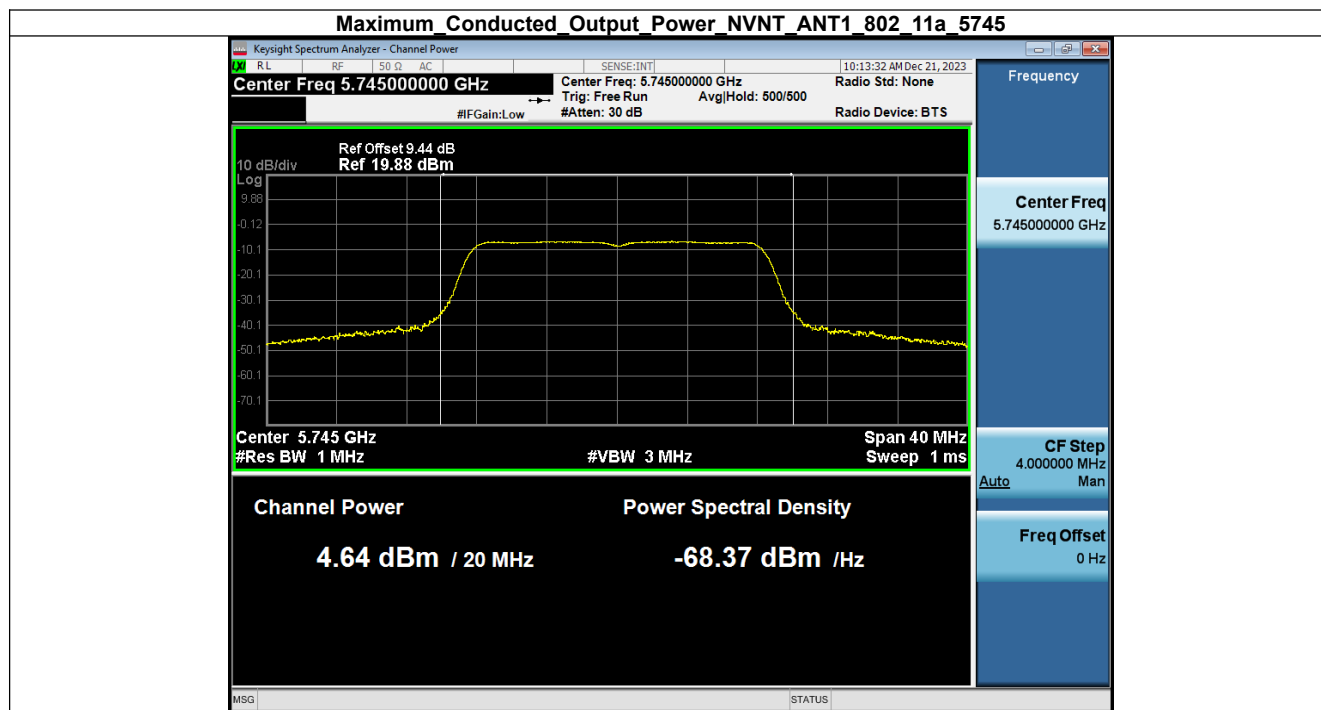


Duty Cycle NVNT_ANT1_802_11n(HT40)_5795

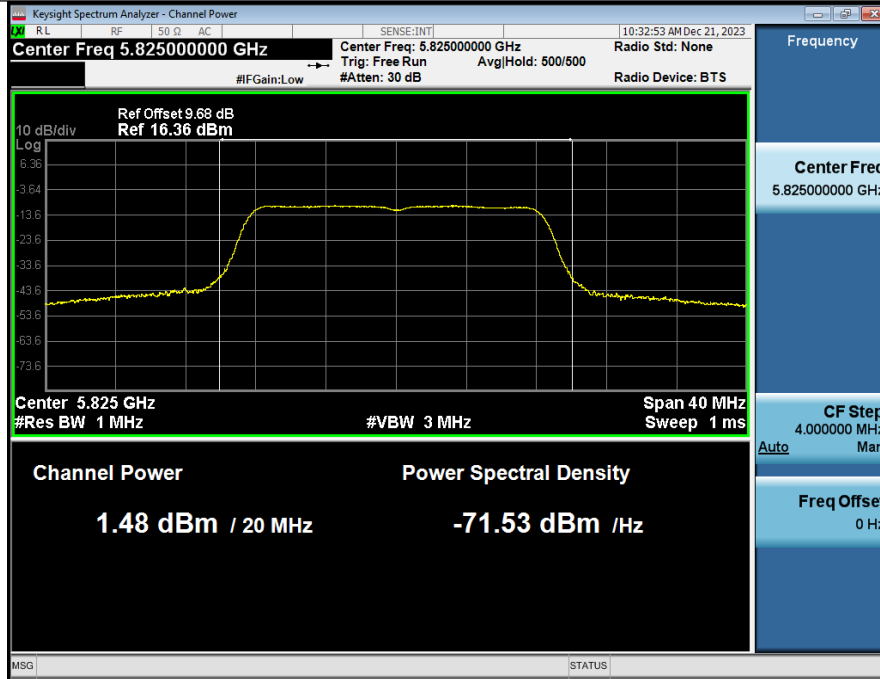


4. Maximum Conducted Output Power

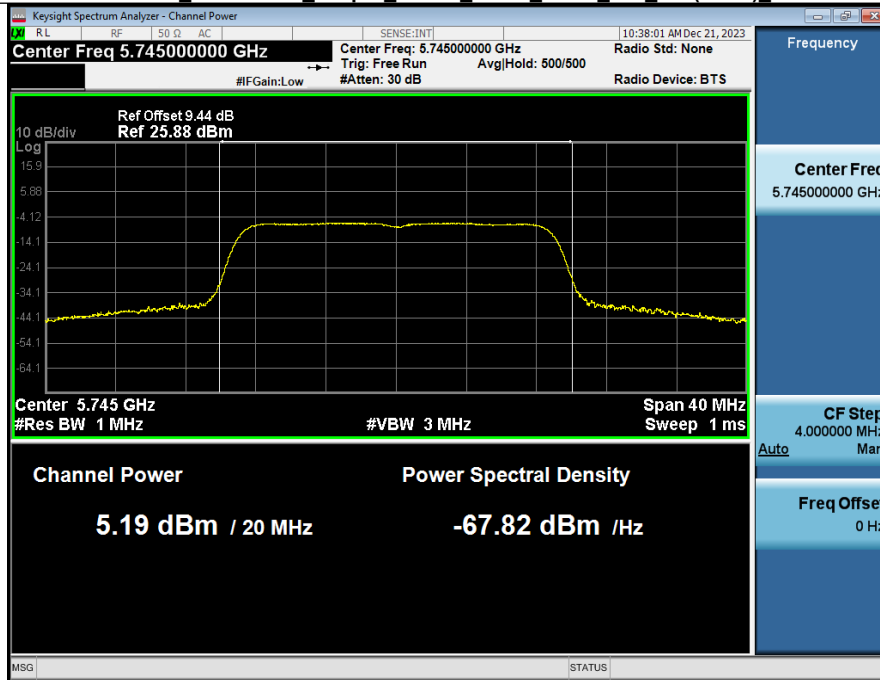
Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	4.64	0.48	5.12	30	Pass
NVNT	ANT1	802.11a	5785.00	3.85	0.47	4.32	30	Pass
NVNT	ANT1	802.11a	5825.00	1.48	0.47	1.95	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	5.19	0.49	5.68	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	4.56	0.55	5.11	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	1.79	0.55	2.34	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	4.41	1.06	5.47	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	2.76	1.06	3.82	30	Pass



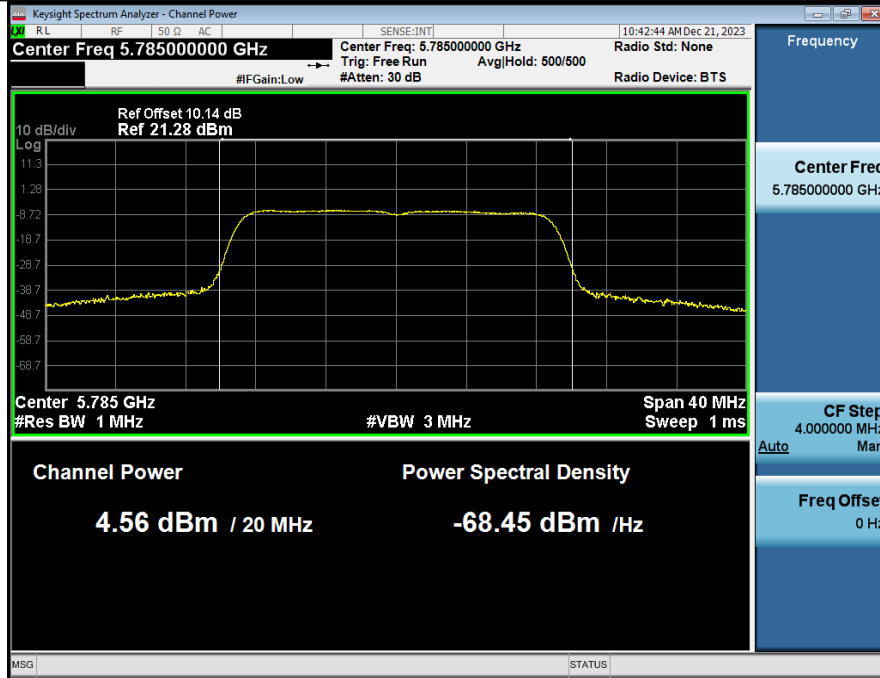
Maximum Conducted Output Power_NVNT_ANT1_802_11a_5825



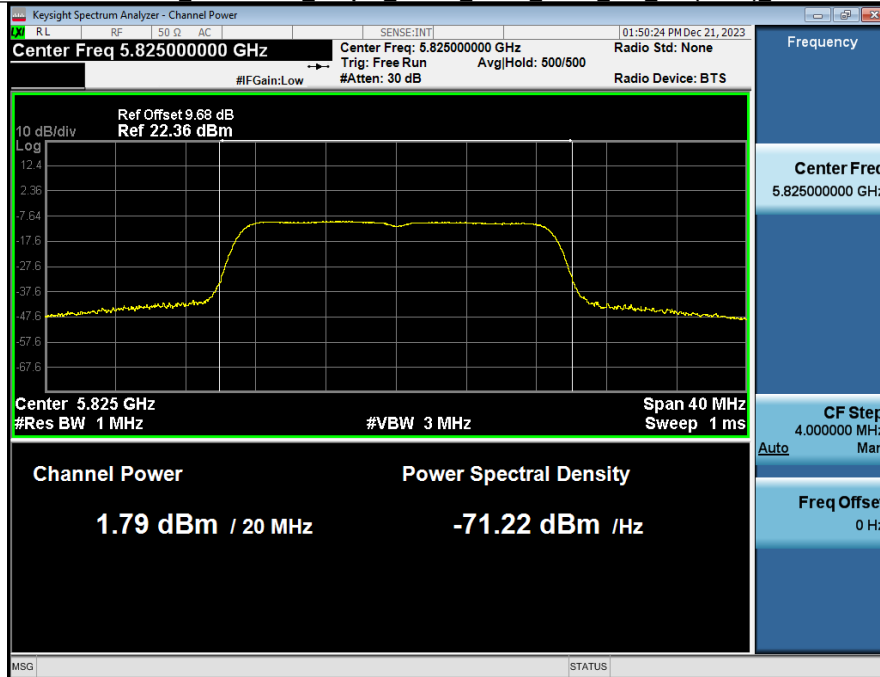
Maximum Conducted Output Power_NVNT_ANT1_802_11n(HT20)_5745



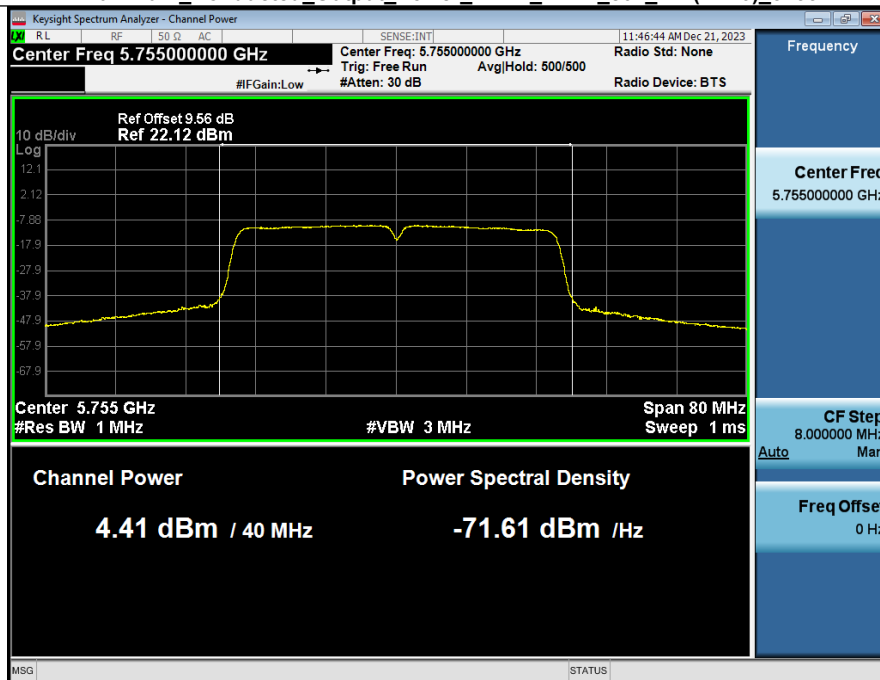
Maximum Conducted Output Power NVNT_ANT1_802_11n(HT20) 5785



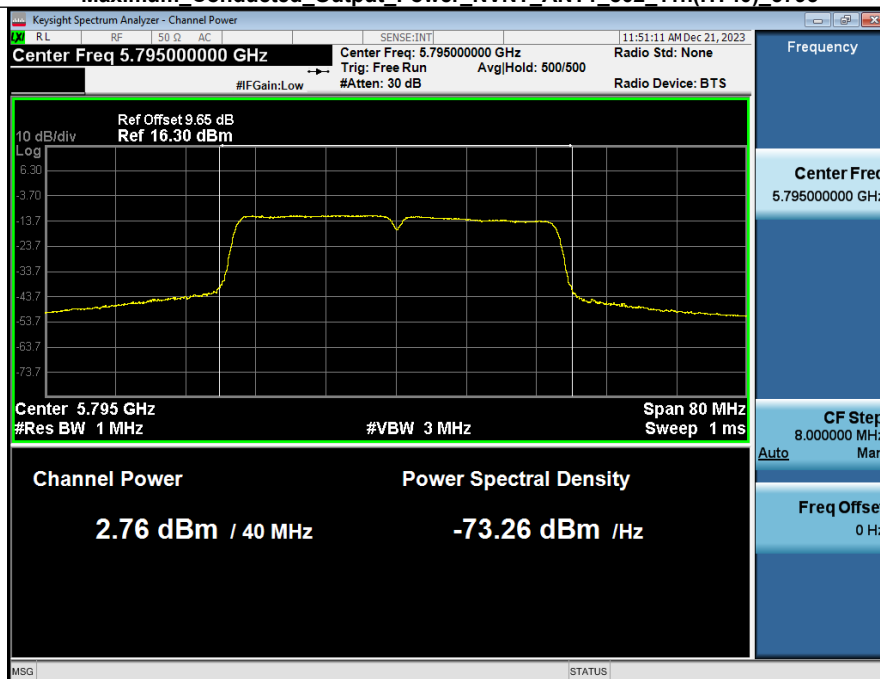
Maximum Conducted Output Power NVNT_ANT1_802_11n(HT20) 5825



Maximum Conducted Output Power NVNT_ANT1_802_11n(HT40)_5755

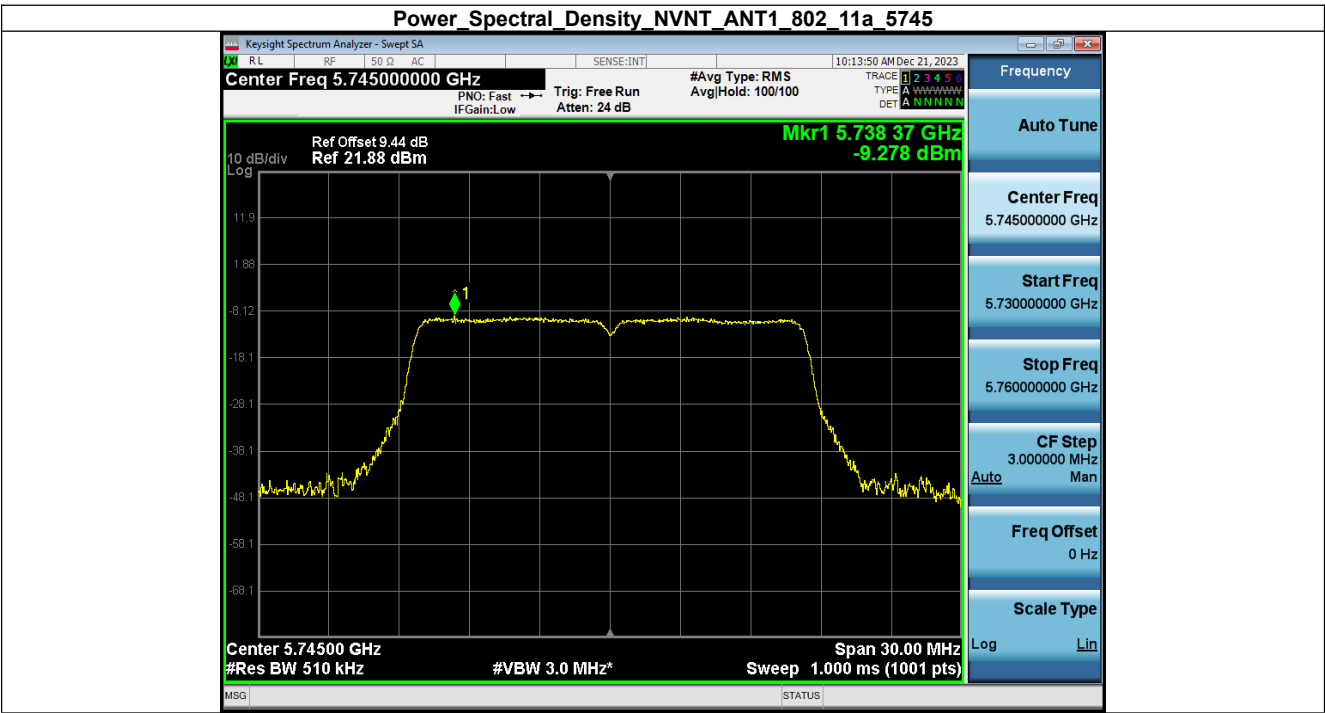


Maximum Conducted Output Power NVNT_ANT1_802_11n(HT40)_5795

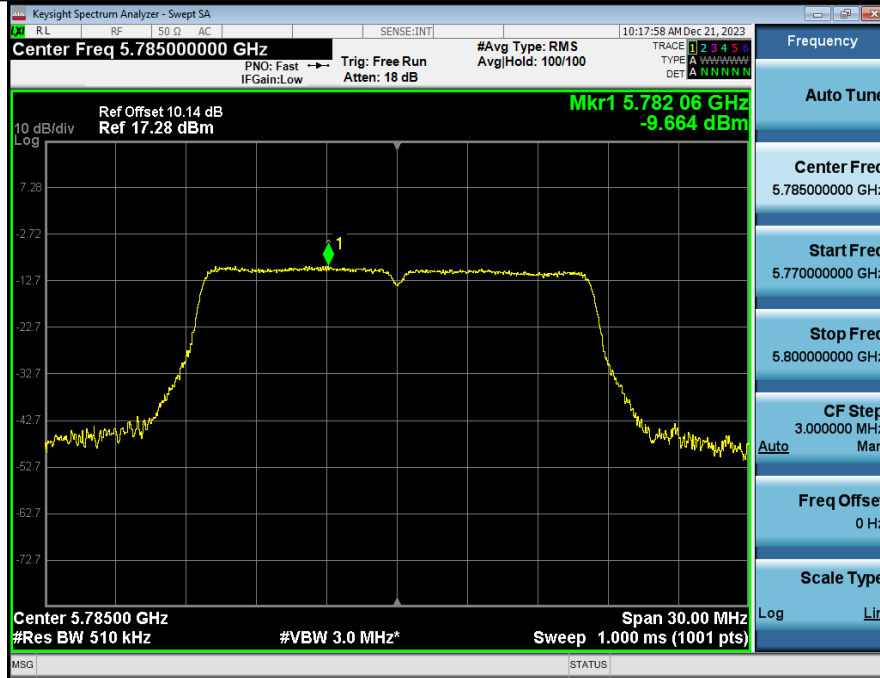


5. Power Spectral Density

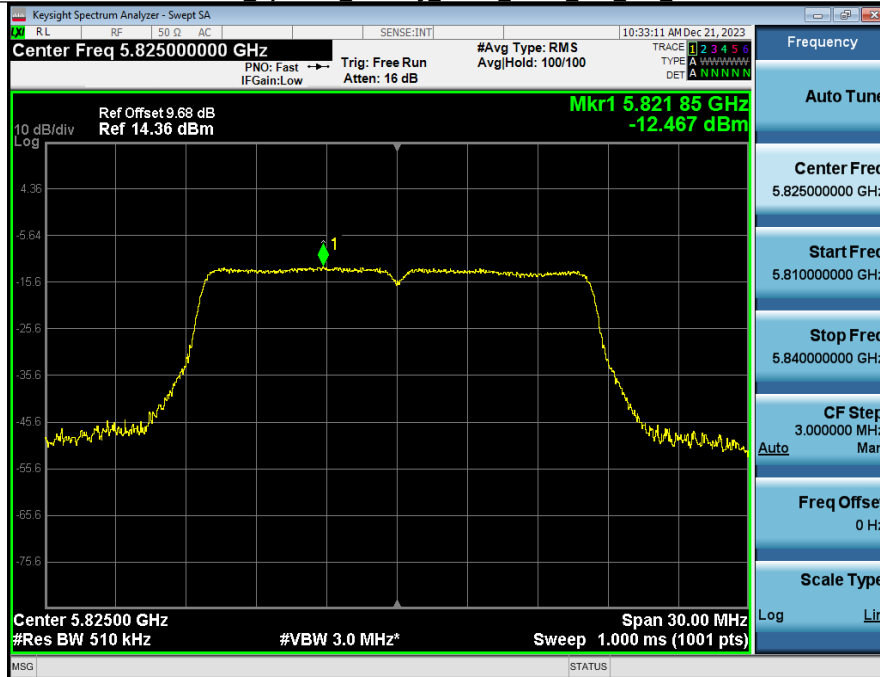
Condition	Antenna	Modulation	Frequency (MHz)	PSD_SA(dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
NVNT	ANT1	802.11a	5745.00	-9.28	0.48	-0	-8.88	30	Pass
NVNT	ANT1	802.11a	5785.00	-9.66	0.47	-0	-9.28	30	Pass
NVNT	ANT1	802.11a	5825.00	-12.47	0.47	-0	-12.08	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	-8.91	0.49	-0	-8.51	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	-9.35	0.55	-0	-8.88	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	-12.20	0.55	-0	-11.74	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	-12.43	1.06	-0	-11.46	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	-14.00	1.06	-0	-13.02	30	Pass



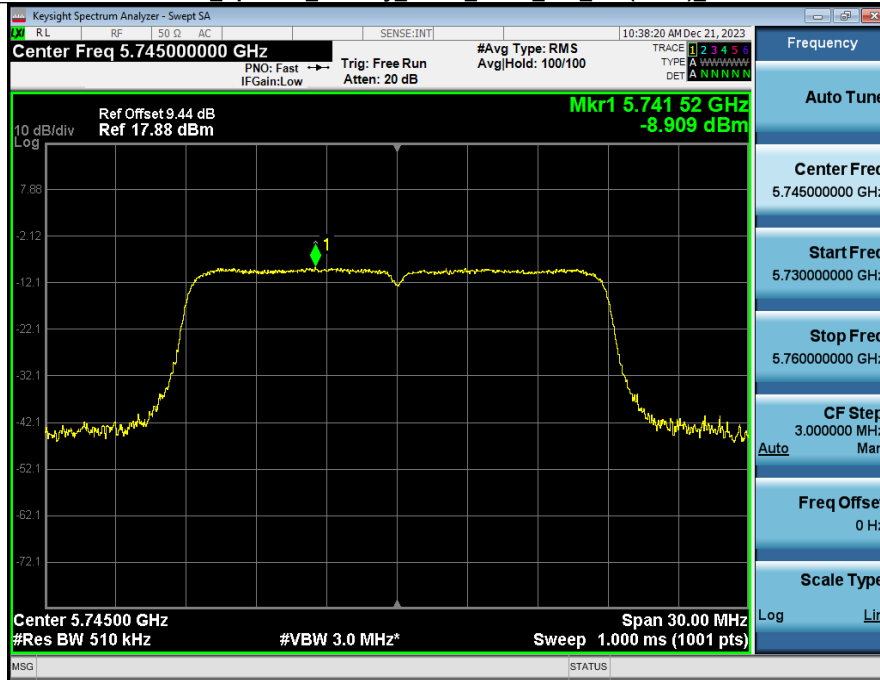
Power Spectral Density NVNT_ANT1_802_11a_5785



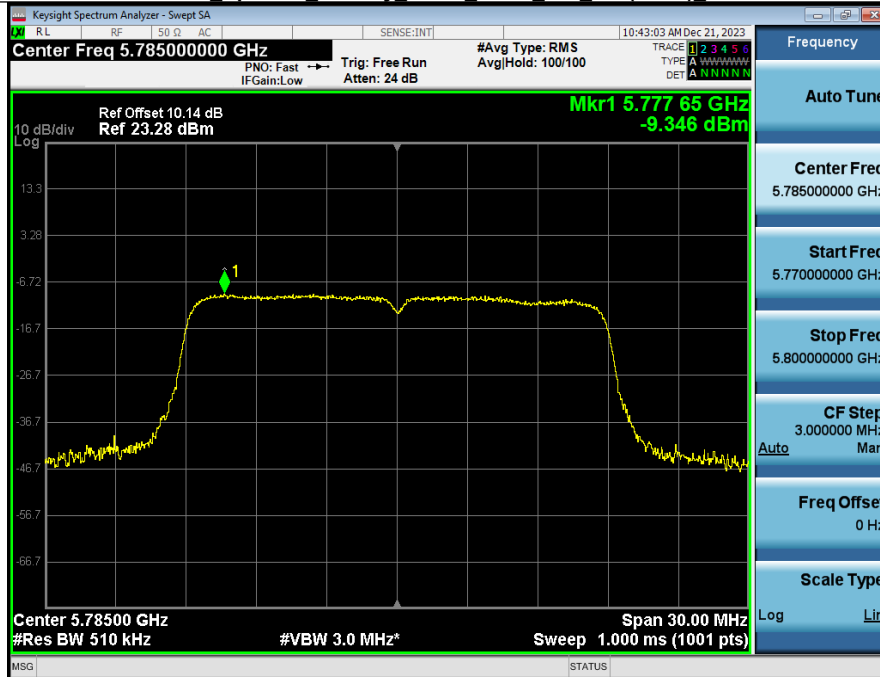
Power Spectral Density NVNT_ANT1_802_11a_5825



Power Spectral Density NVNT_ANT1_802_11n(HT20)_5745



Power Spectral Density NVNT_ANT1_802_11n(HT20)_5785



Power Spectral Density_NVNT_ANT1_802_11n(HT20)_5825



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_5755



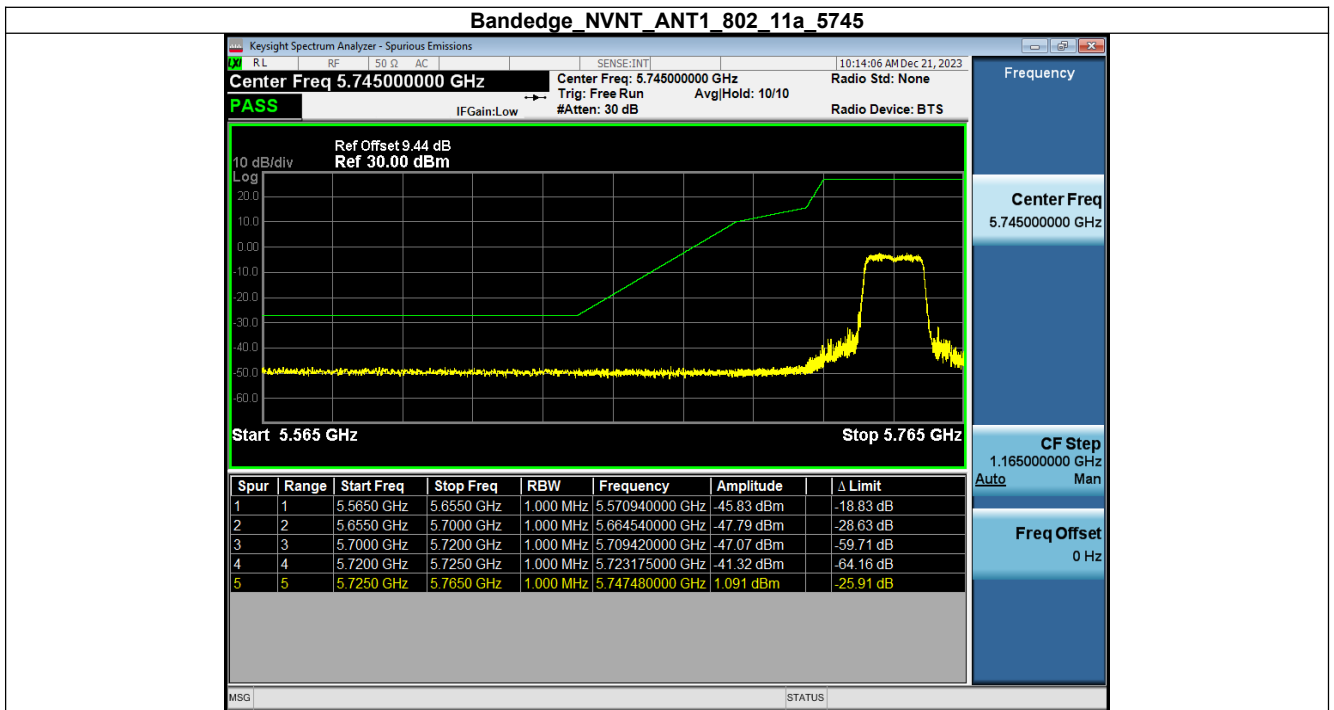
Power Spectral Density NVNT_ANT1_802_11n(HT40)_5795



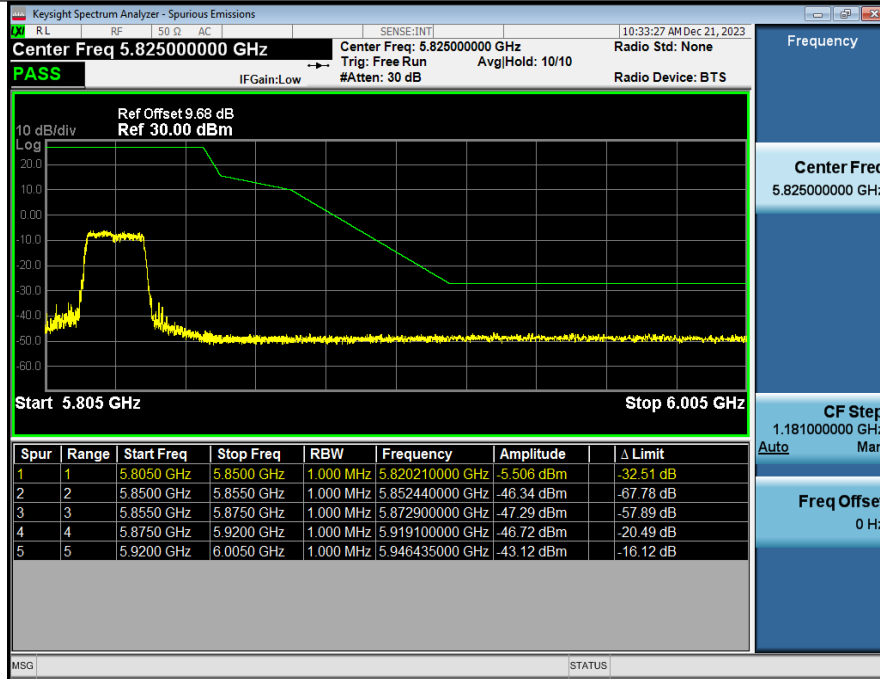
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Frequency Area(MHz)	Frequency(MHz)	Amplitude(dBm)	Limit(dBm)	Result
NVNT	ANT1	802.11a	LCH	5565-5655	5570.940	-45.83	-27.00	Pass
NVNT	ANT1	802.11a	LCH	5655-5700	5664.540	-47.79	-19.16	Pass
NVNT	ANT1	802.11a	LCH	5700-5720	5709.420	-47.07	12.64	Pass
NVNT	ANT1	802.11a	LCH	5720-5725	5723.175	-41.32	22.84	Pass
NVNT	ANT1	802.11a	HCH	5850-5855	5852.440	-46.34	21.44	Pass
NVNT	ANT1	802.11a	HCH	5855-5875	5872.900	-47.29	10.59	Pass
NVNT	ANT1	802.11a	HCH	5875-5920	5919.100	-46.72	-26.26	Pass
NVNT	ANT1	802.11a	HCH	5920-6005	5946.435	-43.12	-27.00	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5565-5655	5618.910	-46.58	-27.00	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5655-5700	5661.660	-47.79	-21.52	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5700-5720	5718.700	-44.34	15.24	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5720-5725	5722.790	-37.52	21.96	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5850-5855	5854.480	-45.51	16.79	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5855-5875	5870.140	-46.50	11.36	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5875-5920	5916.040	-46.88	-23.74	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5920-6005	5994.630	-41.15	-27.00	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5595-5655	5595.180	-46.78	-27.00	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5655-5700	5667.510	-47.09	-16.71	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5700-5720	5719.540	-42.81	15.47	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5720-5725	5721.180	-38.82	18.29	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5850-5855	5854.130	-47.12	17.58	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5855-5875	5874.200	-47.29	10.22	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5875-5920	5919.550	-46.78	-26.63	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5920-5955	5953.145	-42.72	-27.00	Pass

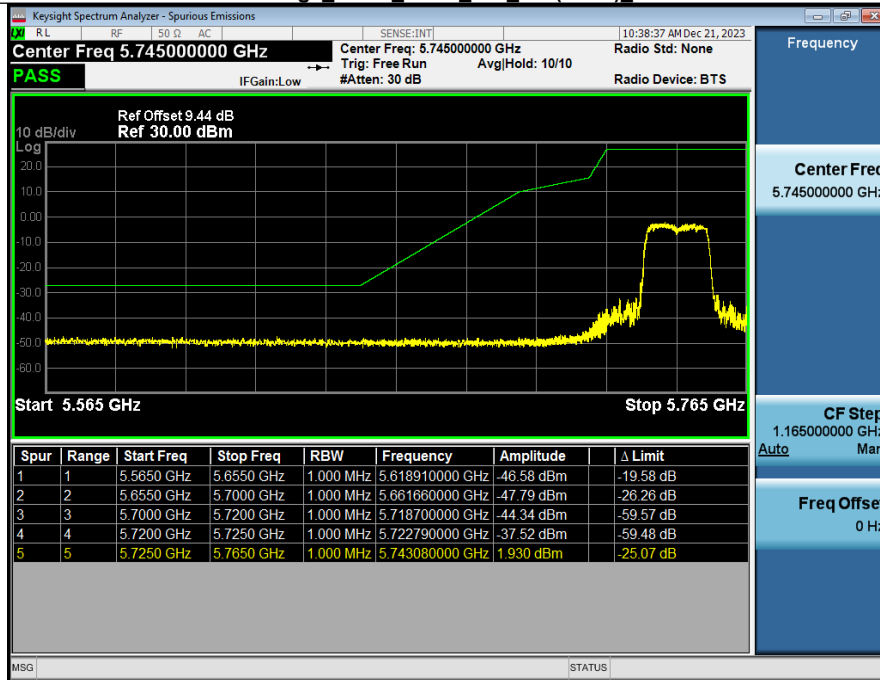
Note: The test diagram has integrated antenna gain to Offset Settings.



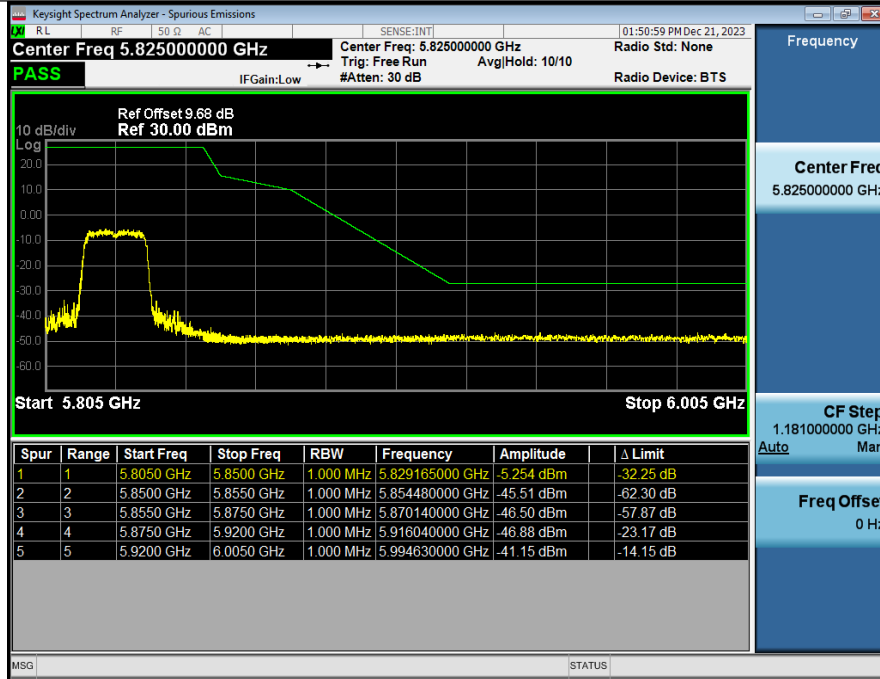
Bandedge_NVNT_ANT1_802_11a_5825



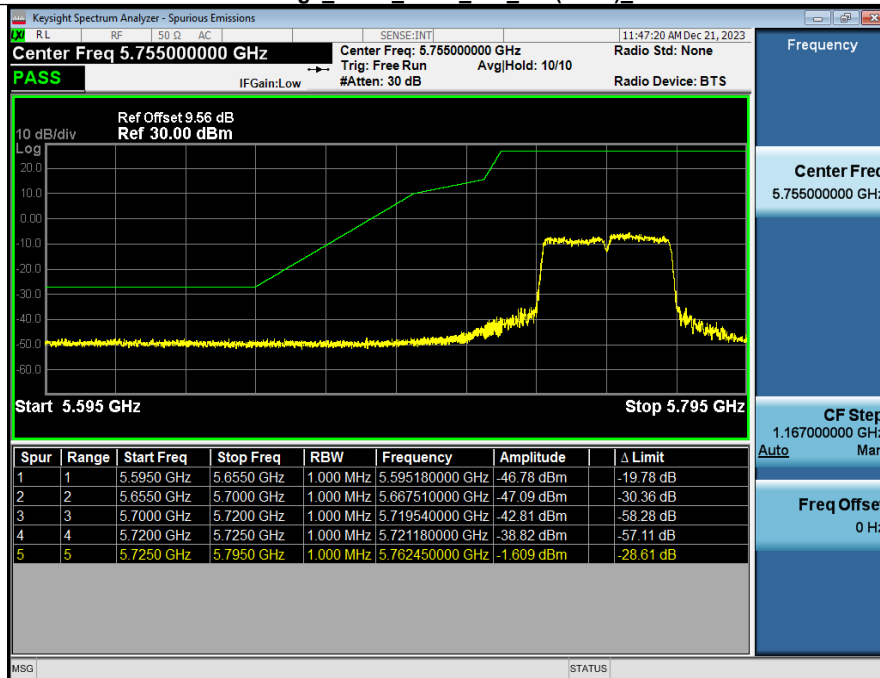
Bandedge_NVNT_ANT1_802_11n(HT20)_5745



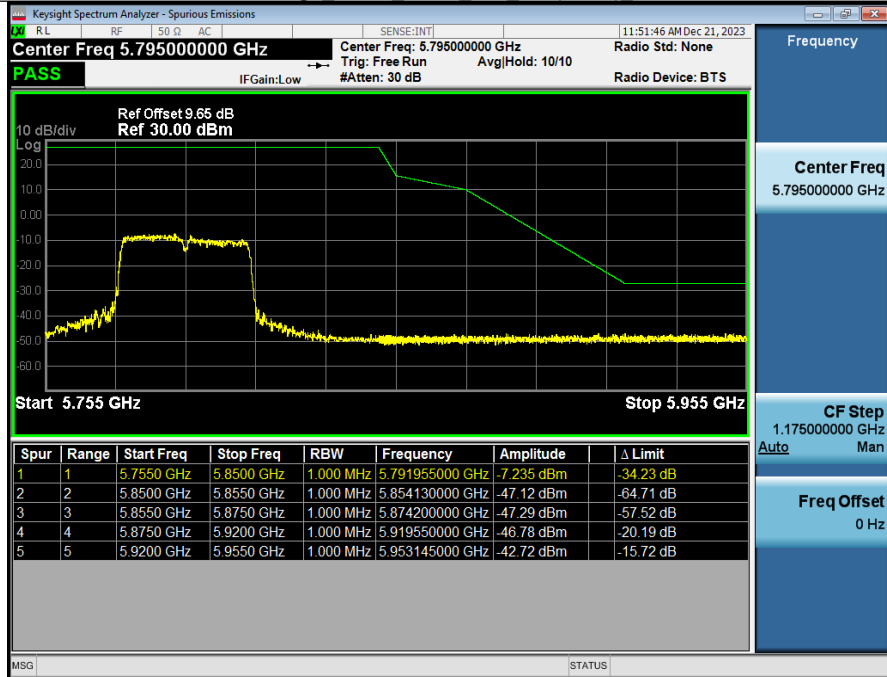
Bandedge_NVNT_ANT1_802_11n(HT20)_5825



Bandedge_NVNT_ANT1_802_11n(HT40)_5755

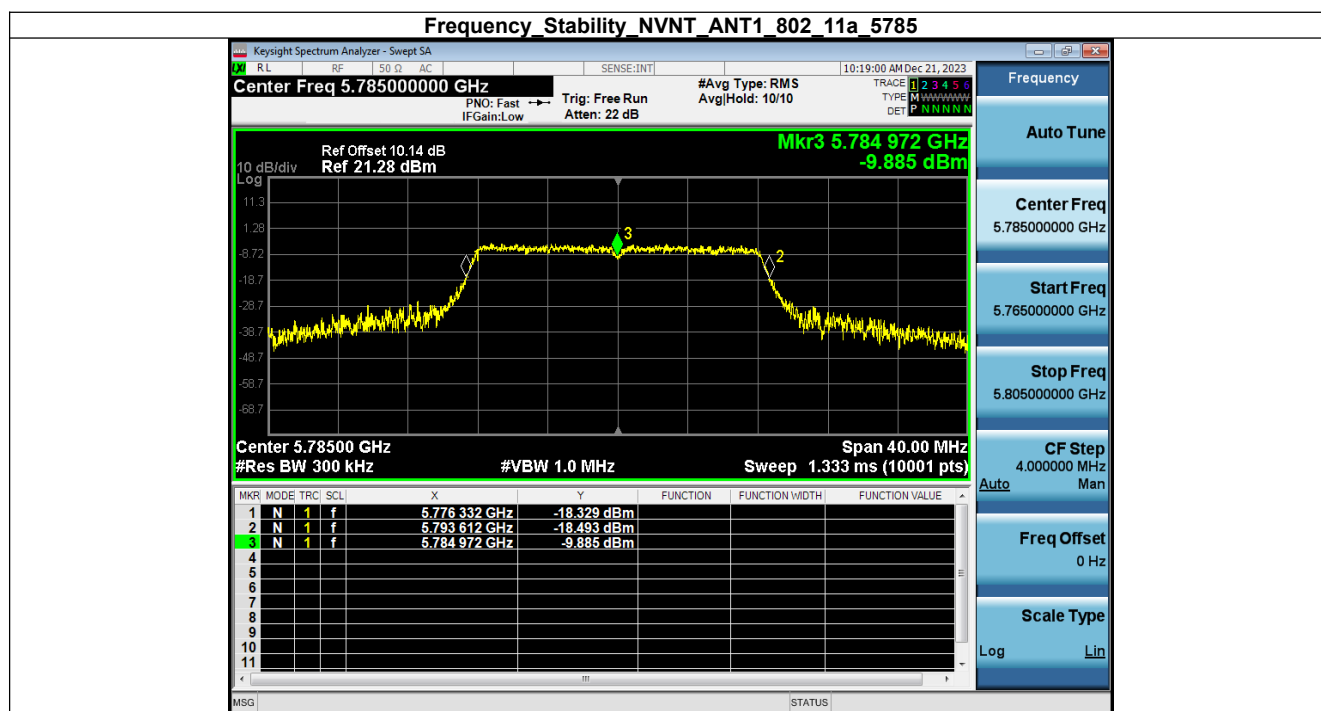
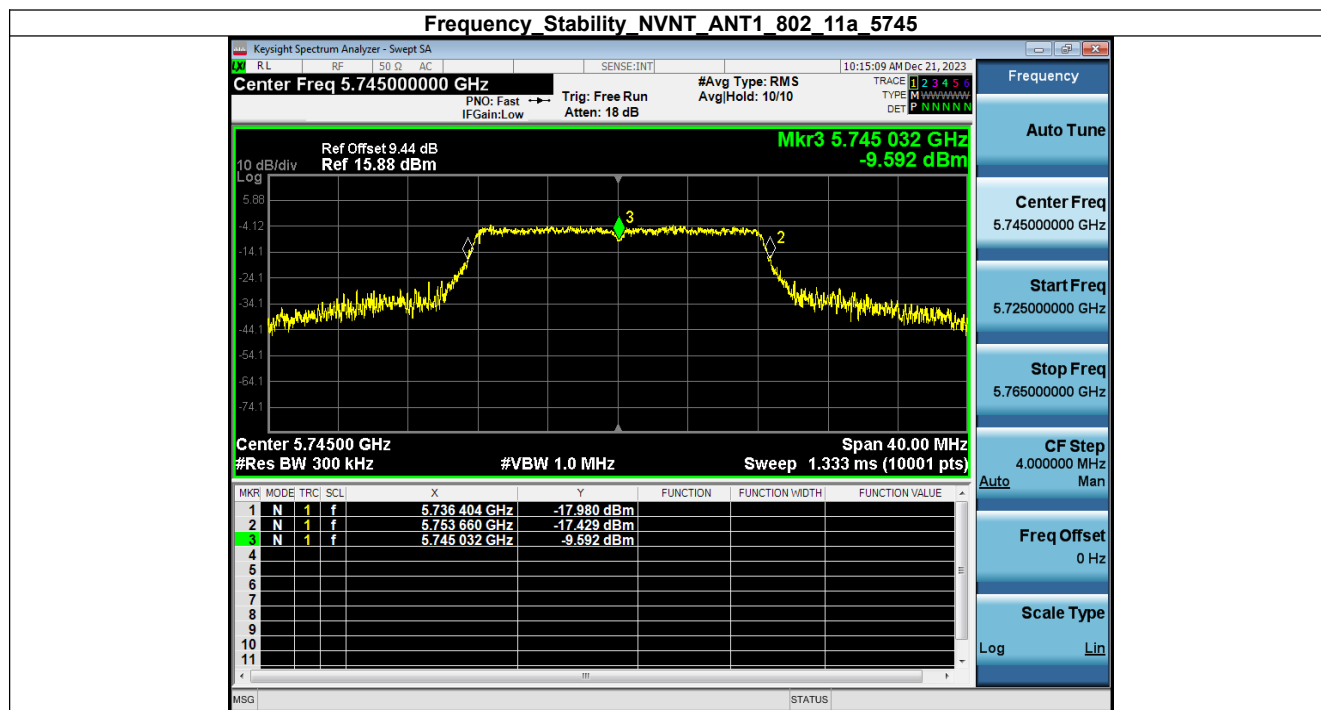


Bandedge_NVNT_ANT1_802_11n(HT40)_5795

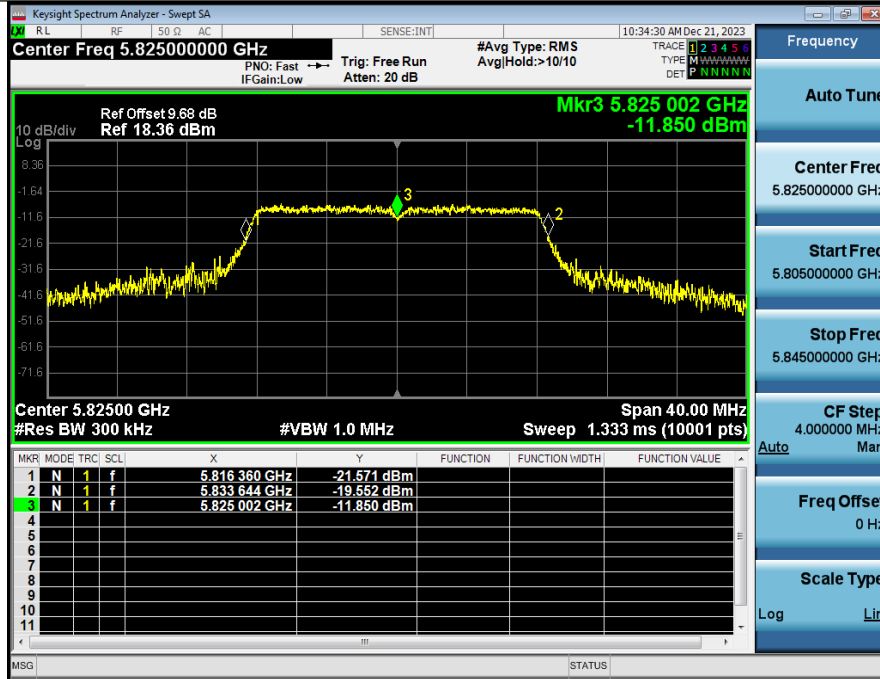


8. Frequency Stability

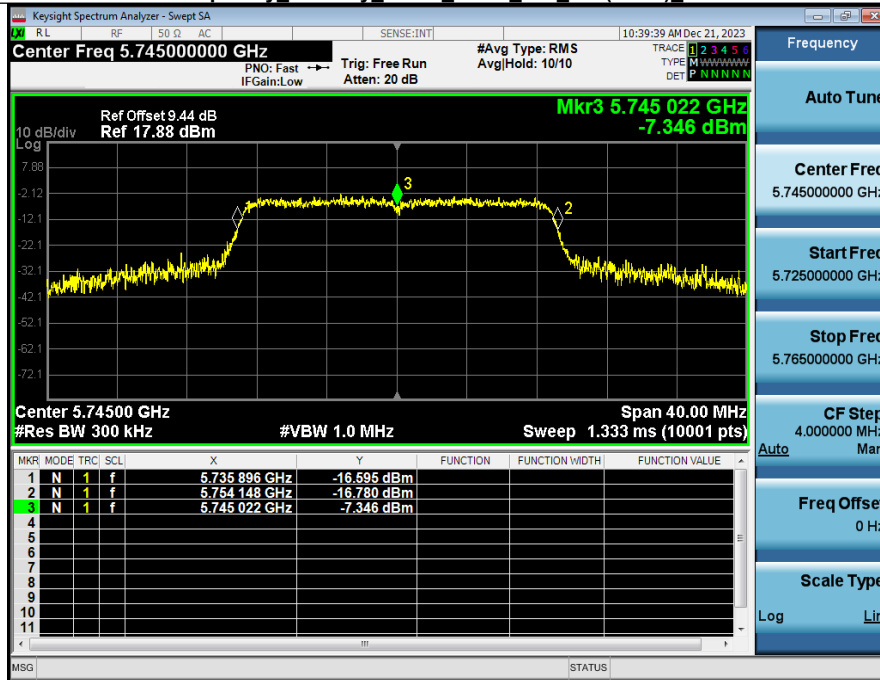
Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	FI(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	5745.032	5736.404	5753.660	5725~5850	Pass
NVNT	ANT1	802.11a	5785.00	5784.972	5776.332	5793.612	5725~5850	Pass
NVNT	ANT1	802.11a	5825.00	5825.002	5816.360	5833.644	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	5745.022	5735.896	5754.148	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	5784.968	5775.848	5794.088	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	5824.992	5815.900	5834.084	5725~5850	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	5755.044	5736.784	5773.304	5725~5850	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	5795.040	5776.816	5813.264	5725~5850	Pass



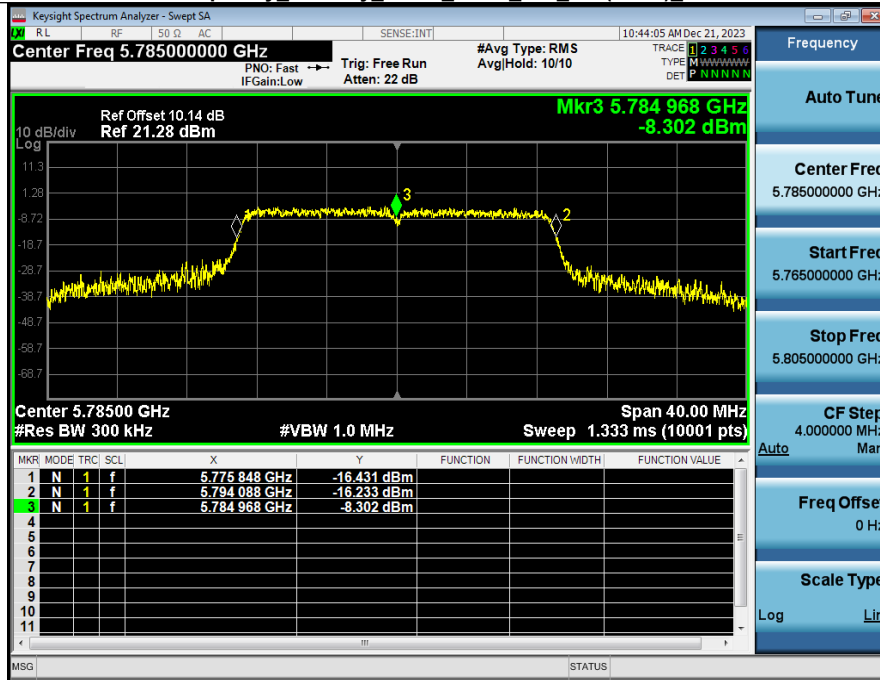
Frequency Stability_NVNT_ANT1_802_11a_5825



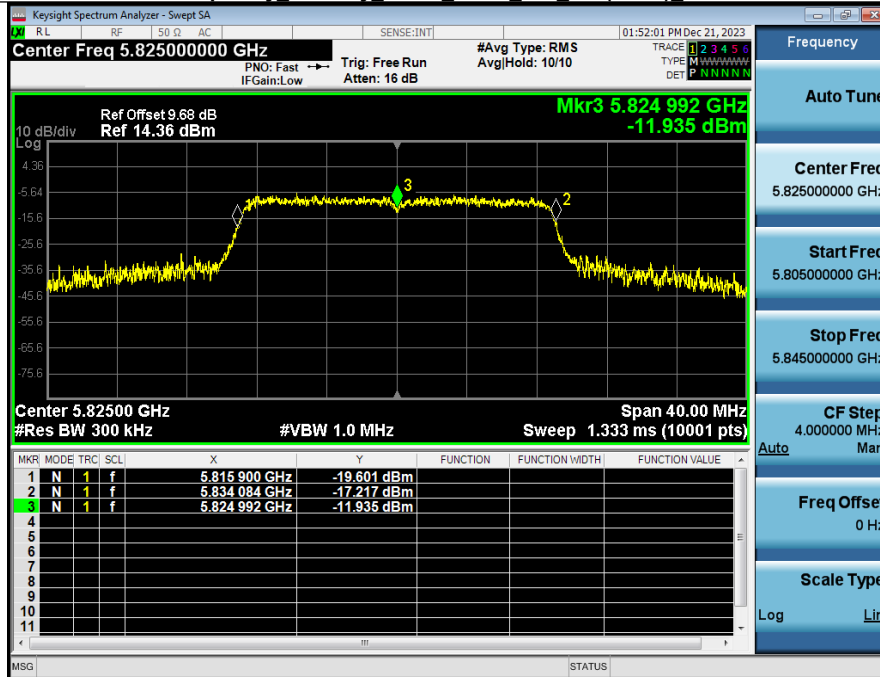
Frequency Stability_NVNT_ANT1_802_11n(HT20)_5745



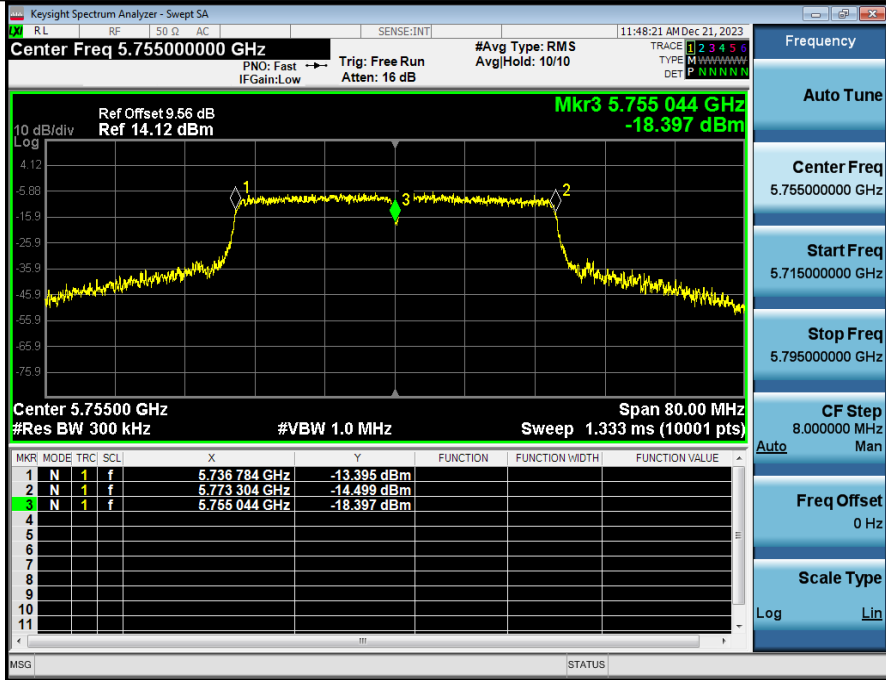
Frequency Stability NVNT_ANT1_802_11n(HT20)_5785



Frequency Stability NVNT_ANT1_802_11n(HT20)_5825



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5755



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5795

