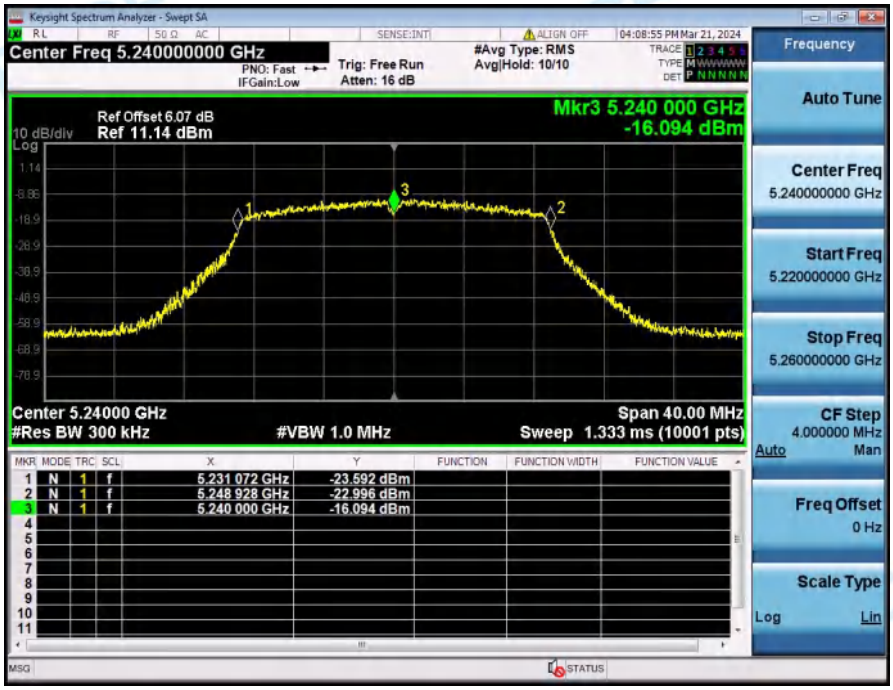
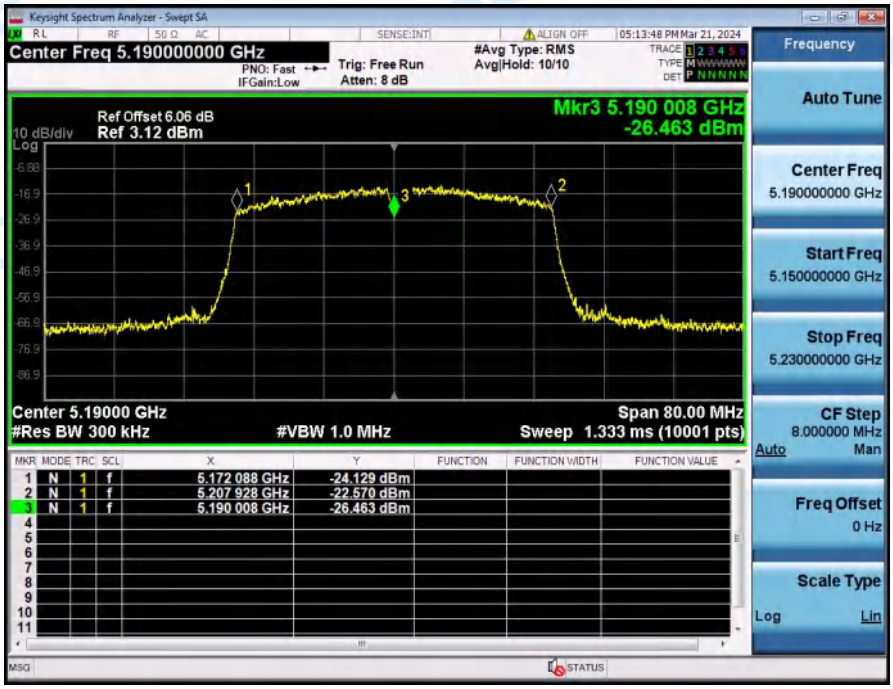
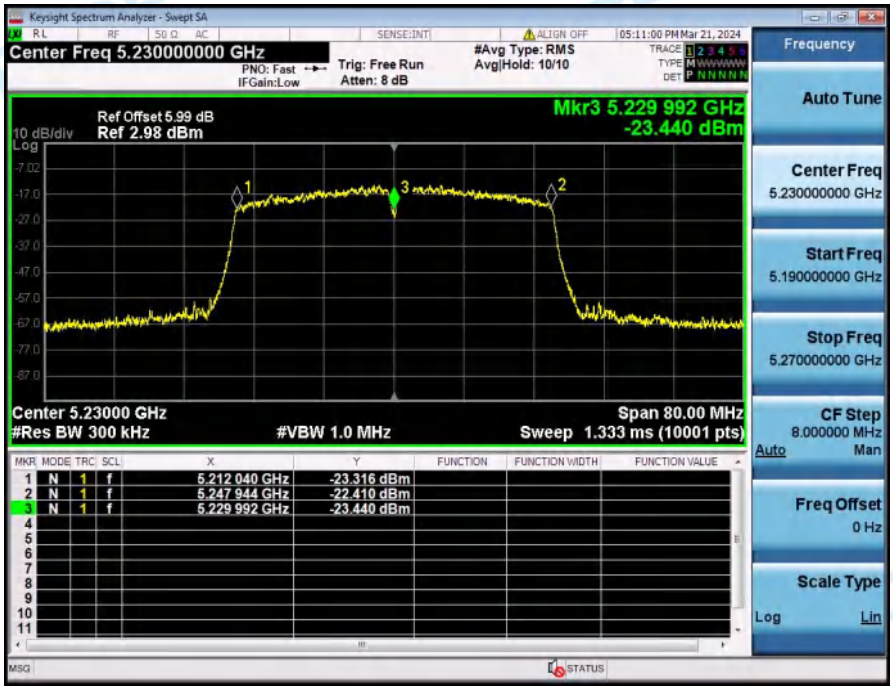
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5240



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5190



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5230



Appendix--5.8GWIFI

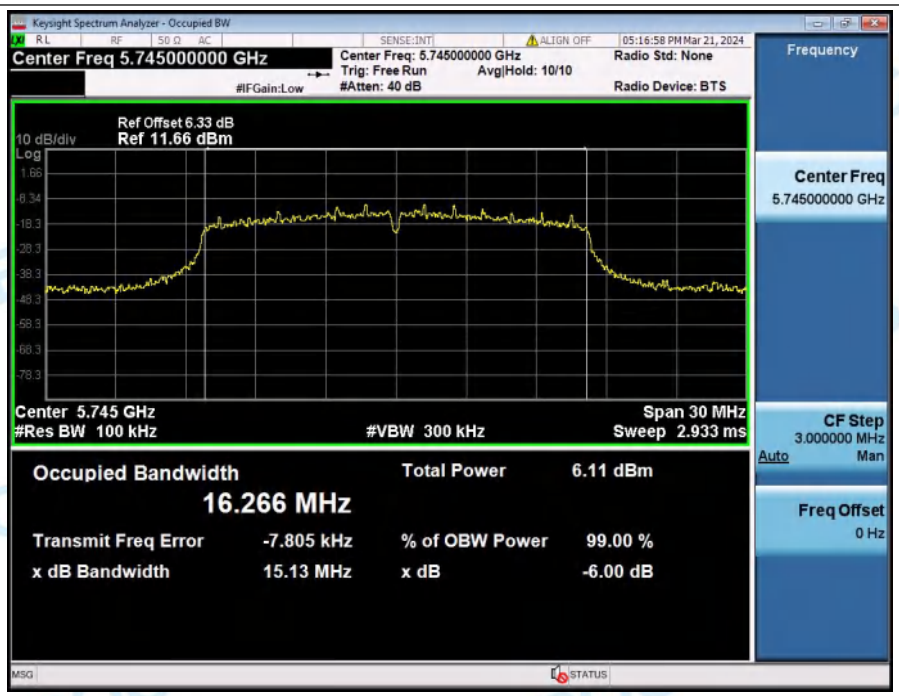
HT240319011--F01--5.8G--FCC

FCC_5.8G_WIFI (Part15.407) Test Data

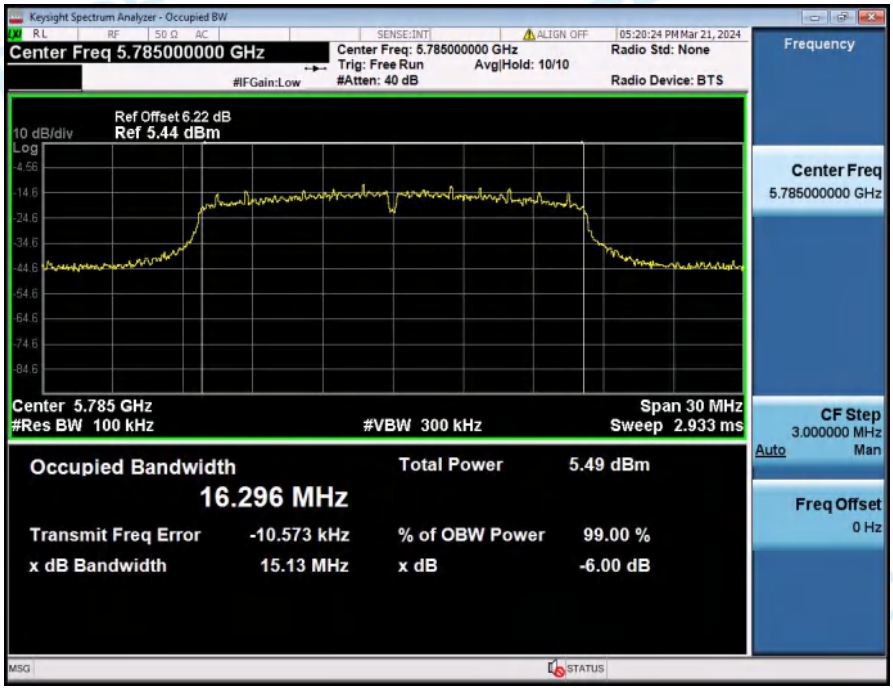
1. -6dB Emission Bandwidth

Condition	Antenna	Mode	Frequency(MHz)	-6dB_Emission_Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	LCH	5745.00	15.125	0.500	Pass
NVNT	ANT1	MCH	5785.00	15.130	0.500	Pass
NVNT	ANT1	HCH	5825.00	15.045	0.500	Pass
NVNT	ANT1	LCH	5745.00	15.048	0.500	Pass
NVNT	ANT1	MCH	5785.00	13.879	0.500	Pass
NVNT	ANT1	HCH	5825.00	15.046	0.500	Pass
NVNT	ANT1	LCH	5755.00	32.603	0.500	Pass
NVNT	ANT1	HCH	5795.00	30.119	0.500	Pass

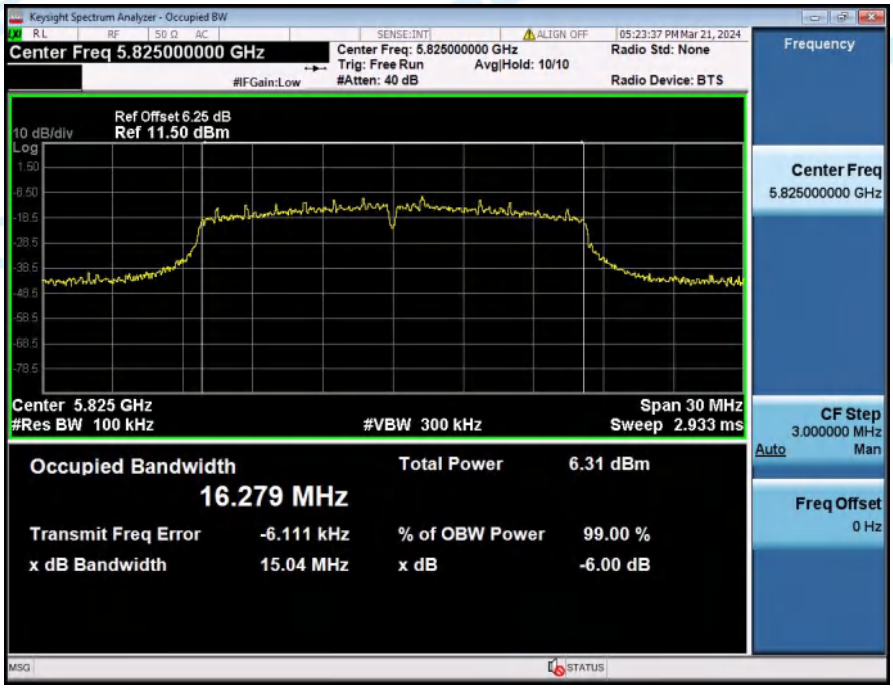
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5745_20M



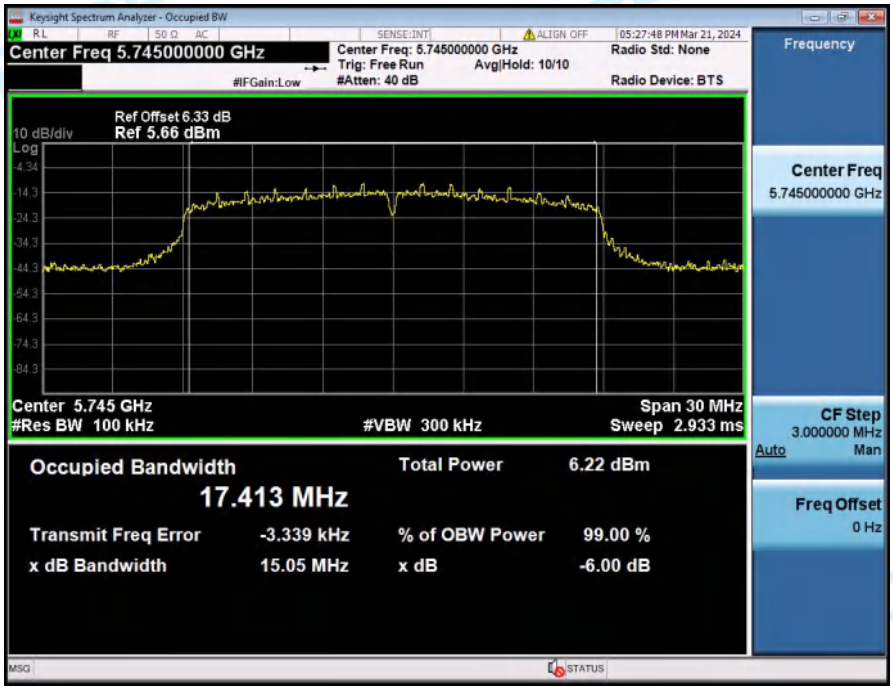
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5785_20M



-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5825_20M



-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT20)_5745_20M



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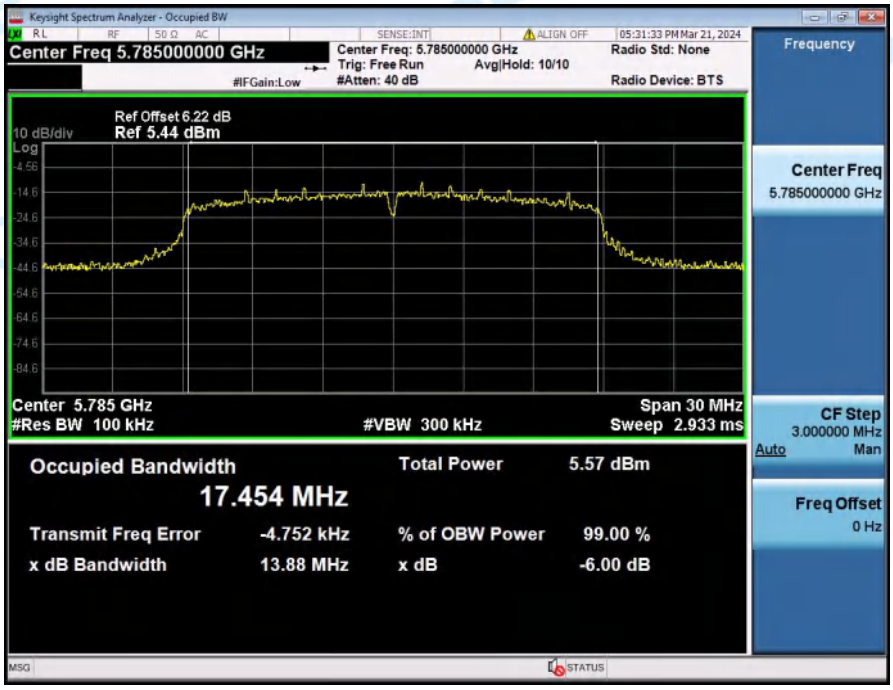
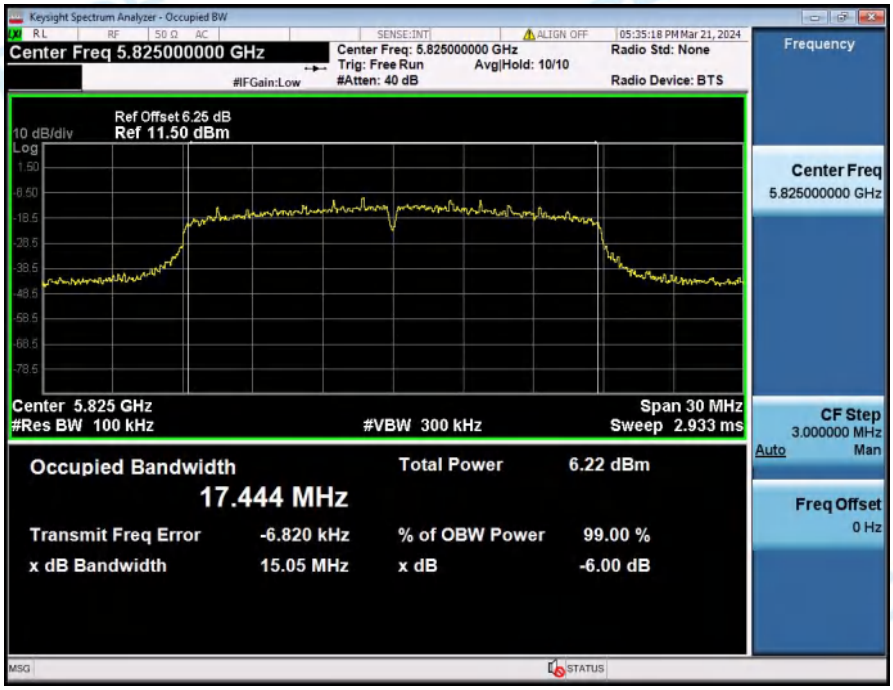
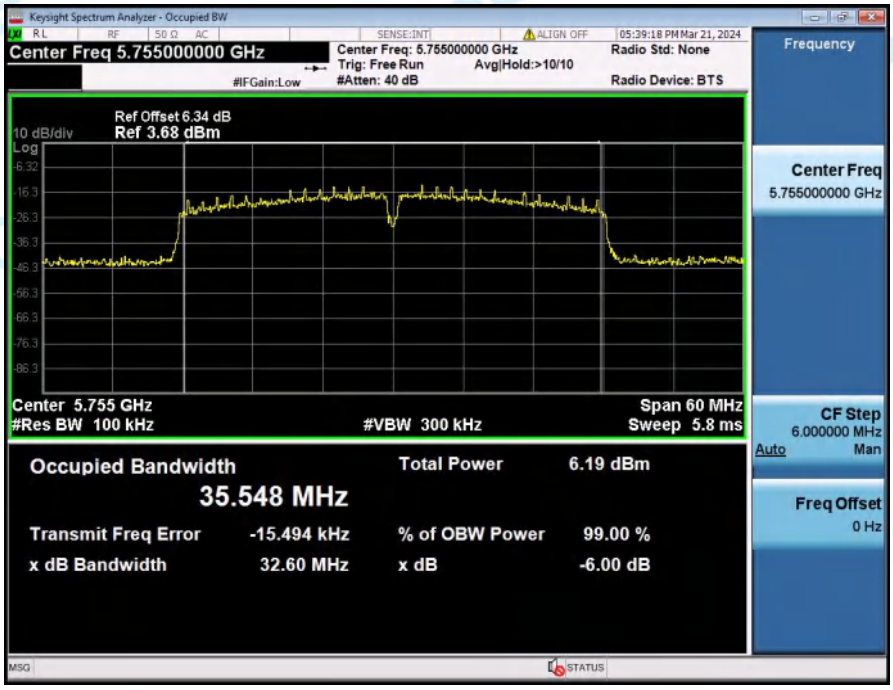


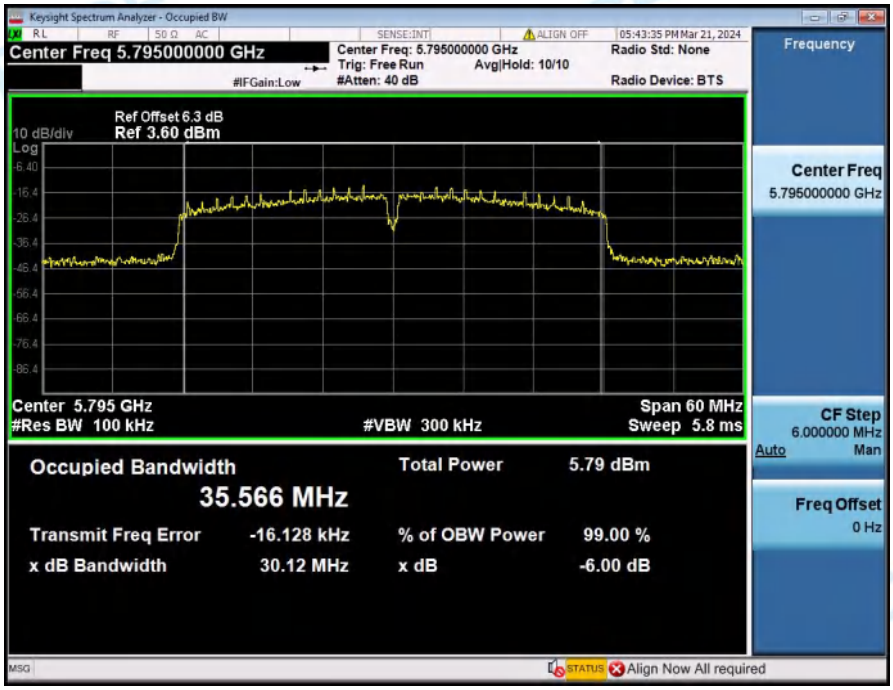
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT20)_5825_20M



-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5755_40M



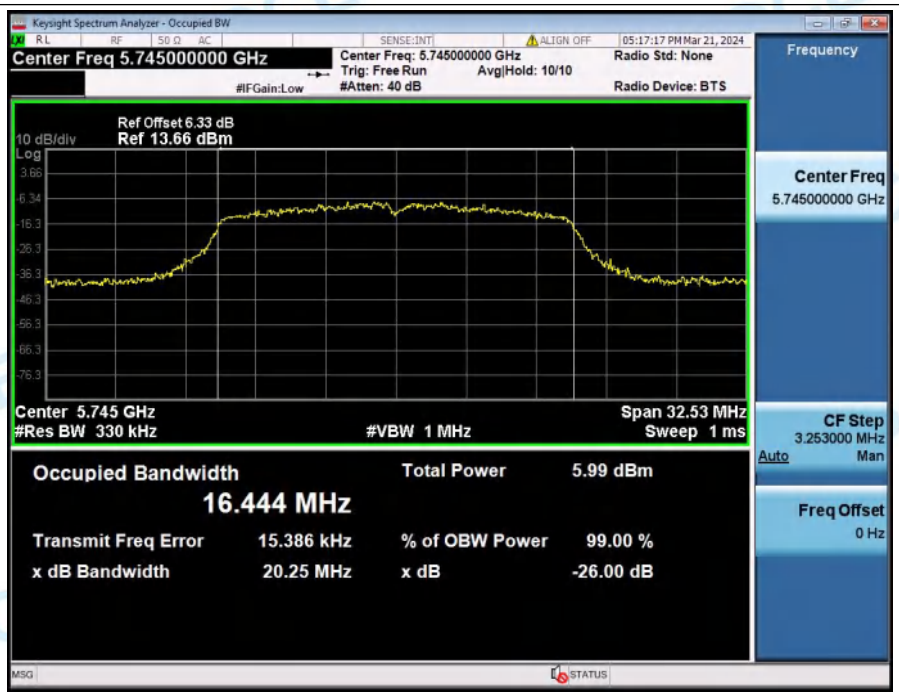
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5795_40M



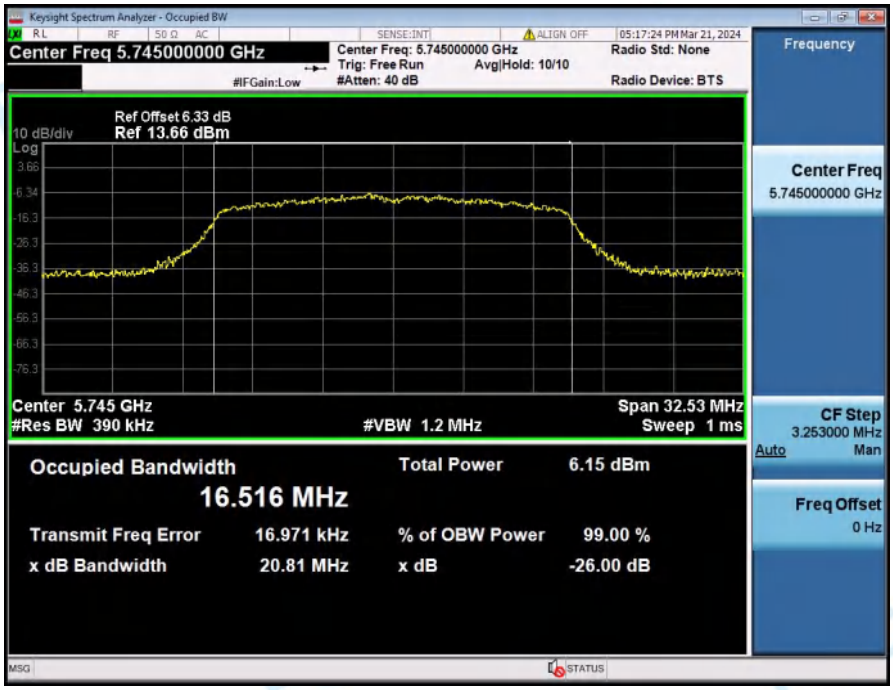
2. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	20.81	16.44
NVNT	ANT1	802.11a	5785.00	20.97	16.52
NVNT	ANT1	802.11a	5825.00	21.18	16.47
NVNT	ANT1	802.11n(HT20)	5745.00	21.68	17.59
NVNT	ANT1	802.11n(HT20)	5785.00	21.59	17.65
NVNT	ANT1	802.11n(HT20)	5825.00	22.36	17.61
NVNT	ANT1	802.11n(HT40)	5755.00	54.64	35.74
NVNT	ANT1	802.11n(HT40)	5795.00	67.79	35.86

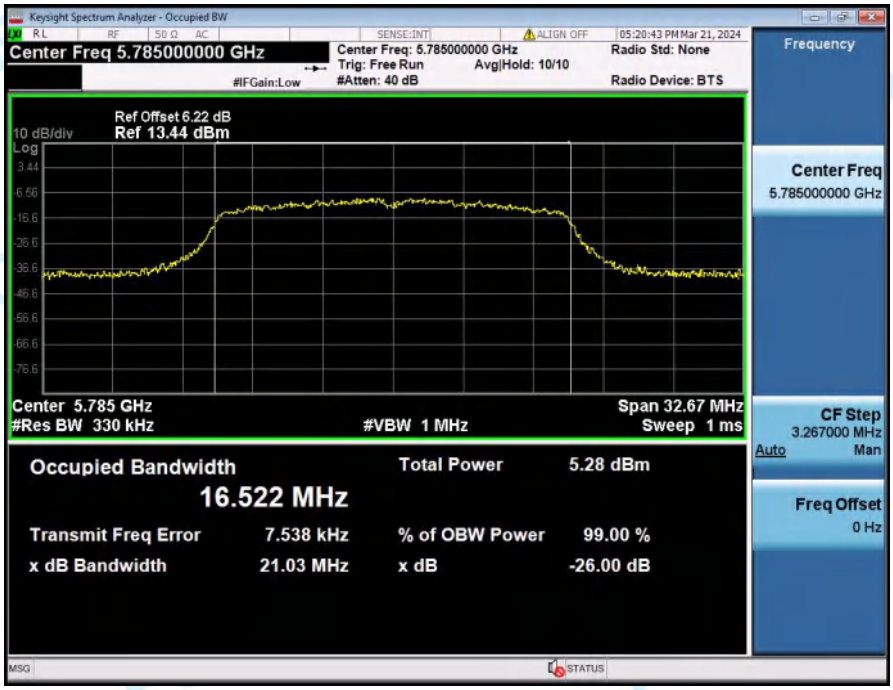
99%_OCB_NVNT_ANT1_802_11a_5745



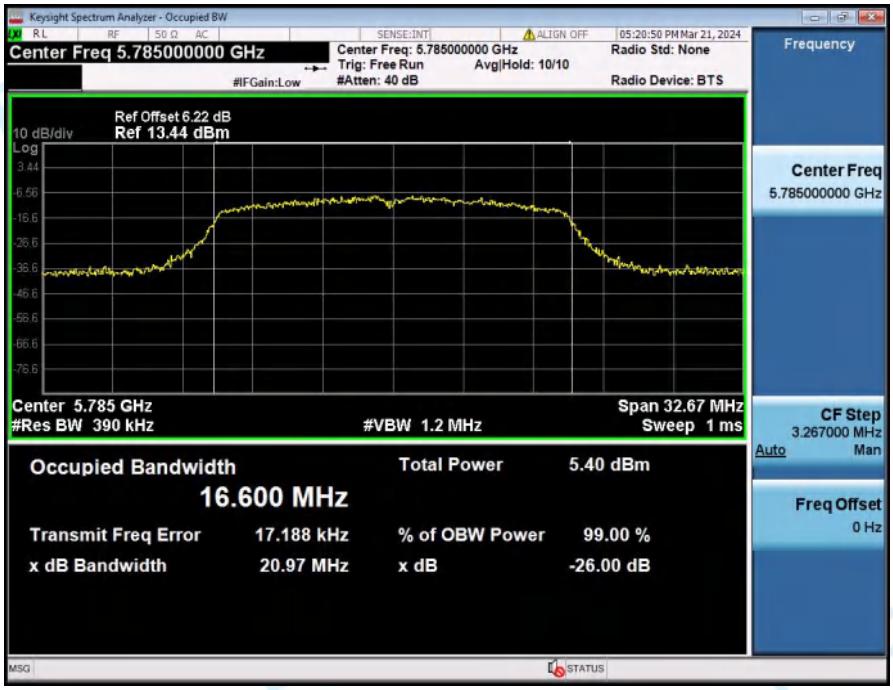
-26BW_NVNT_ANT1_802_11a_5745



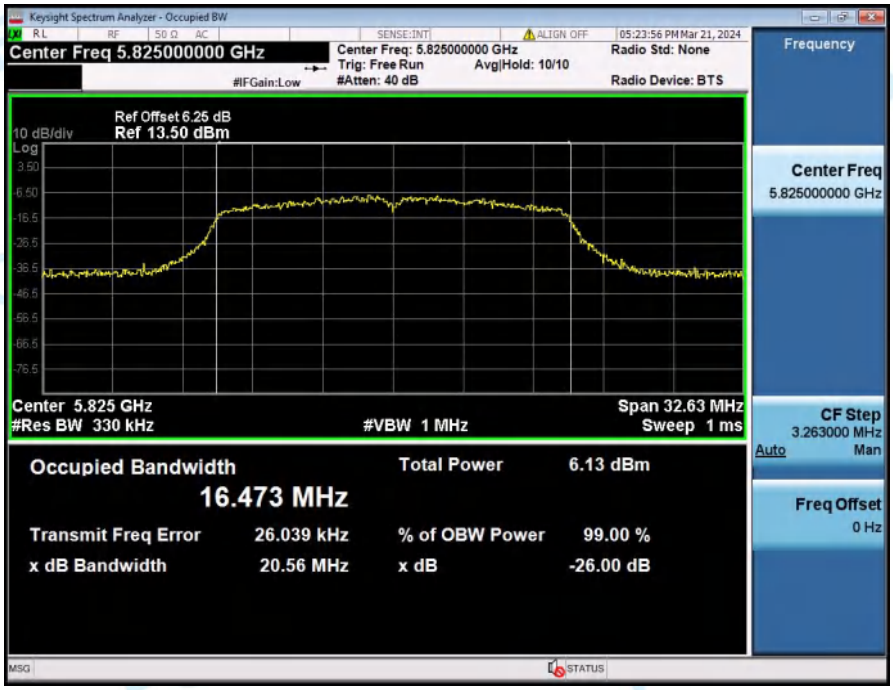
99%_OCB_NVNT_ANT1_802_11a_5785



-26BW_NVNT_ANT1_802_11a_5785



99%_OCB_NVNT_ANT1_802_11a_5825



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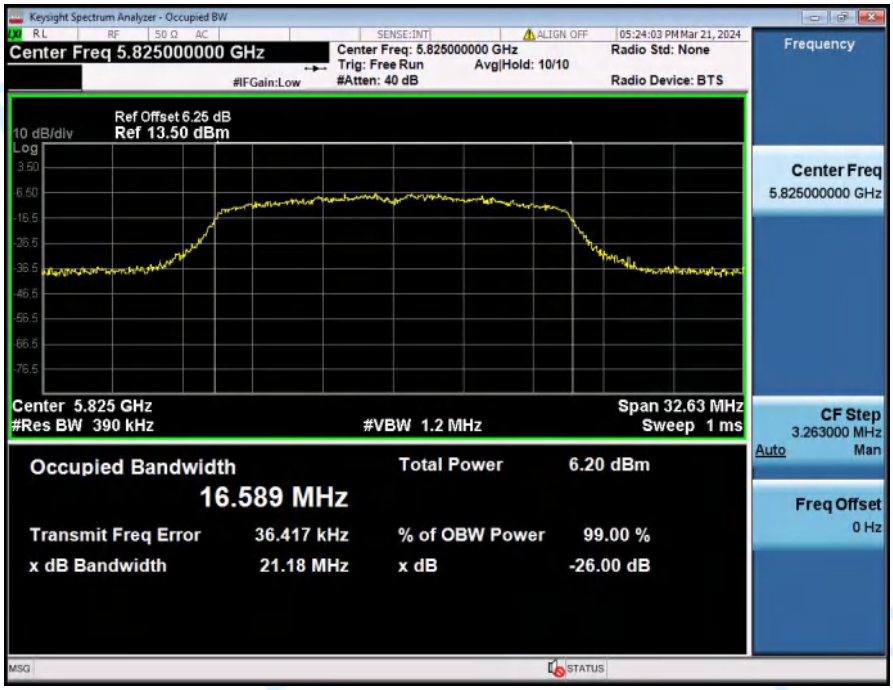
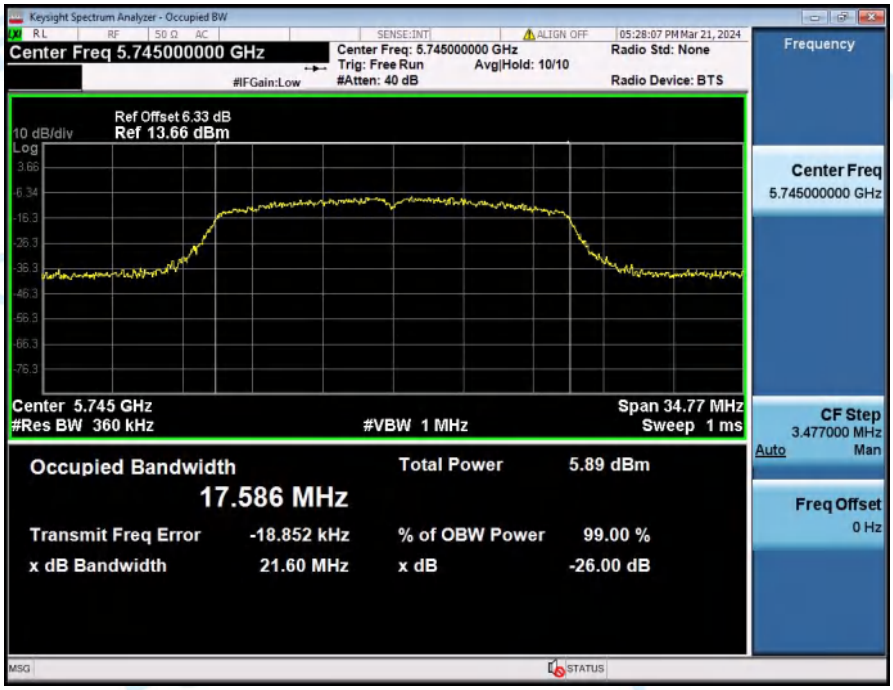


99%_OCB_NVNT_ANT1_802_11n(HT20)_5745



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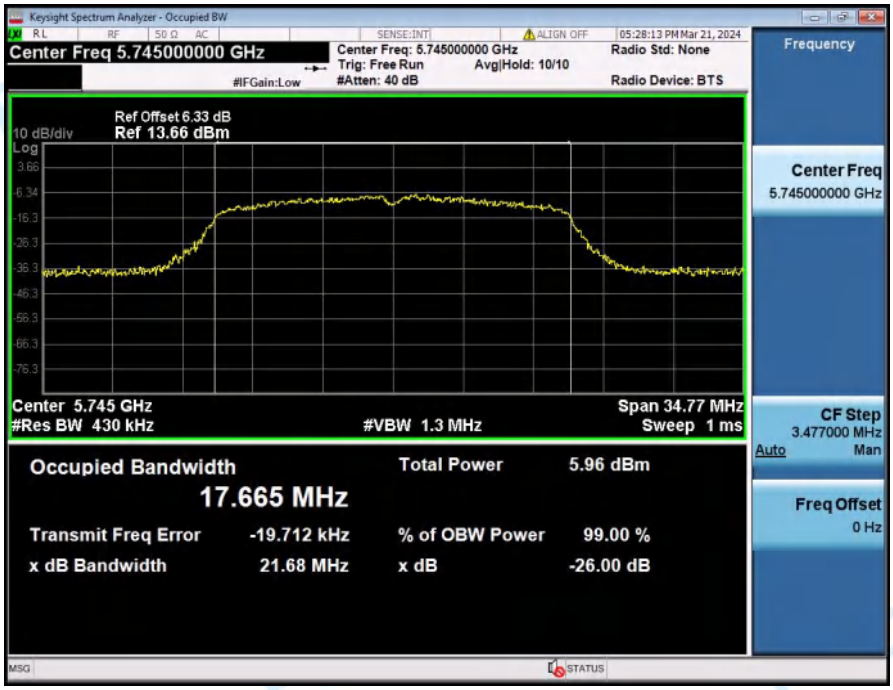

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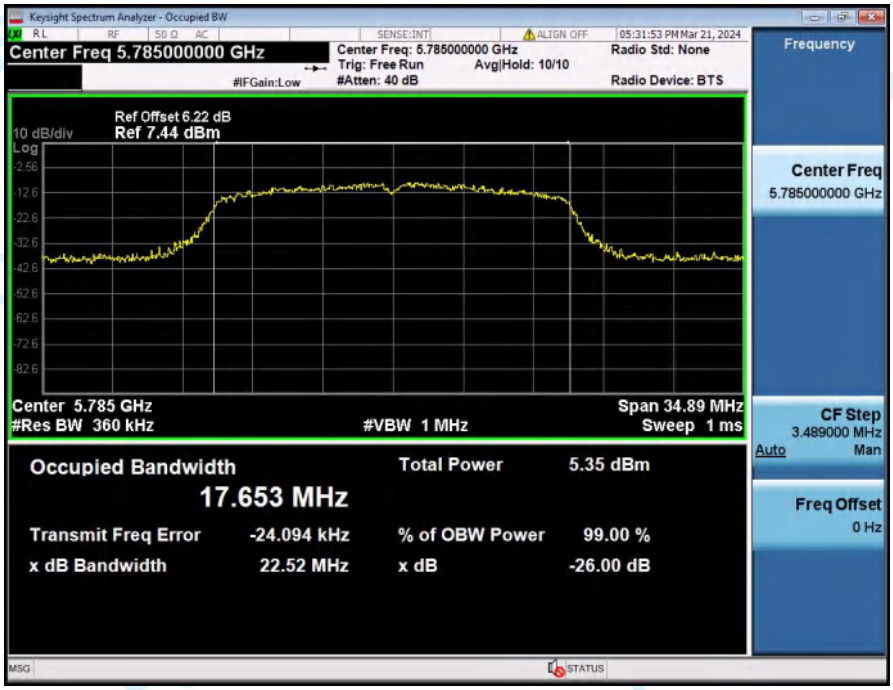

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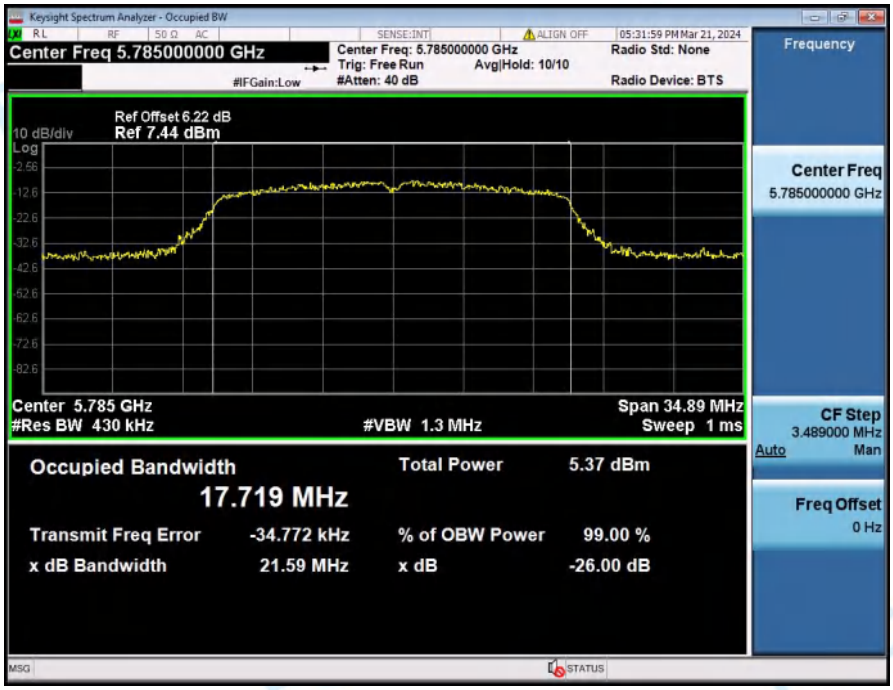
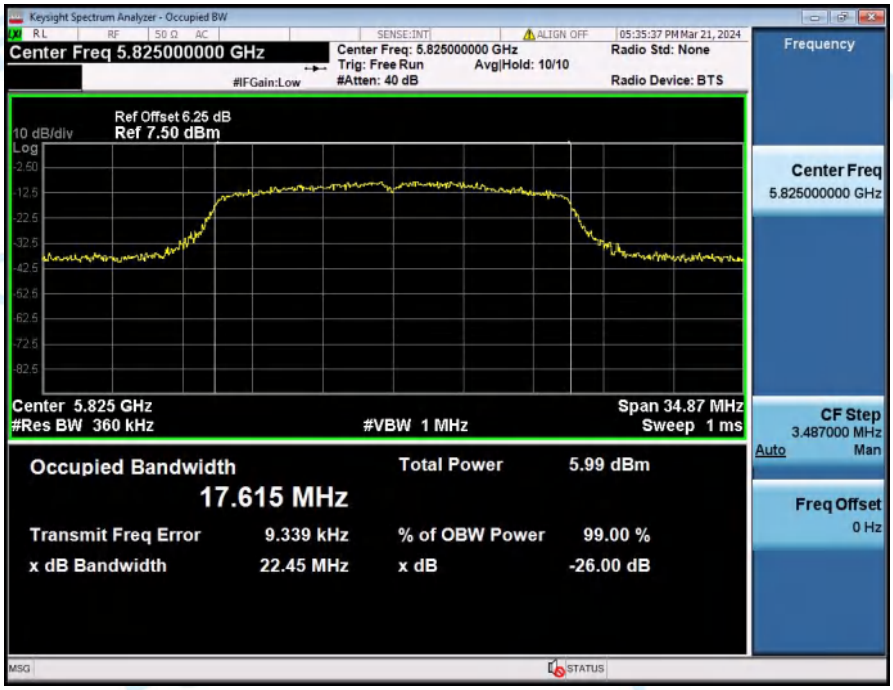


99%_OCB_NVNT_ANT1_802_11n(HT20)_5825



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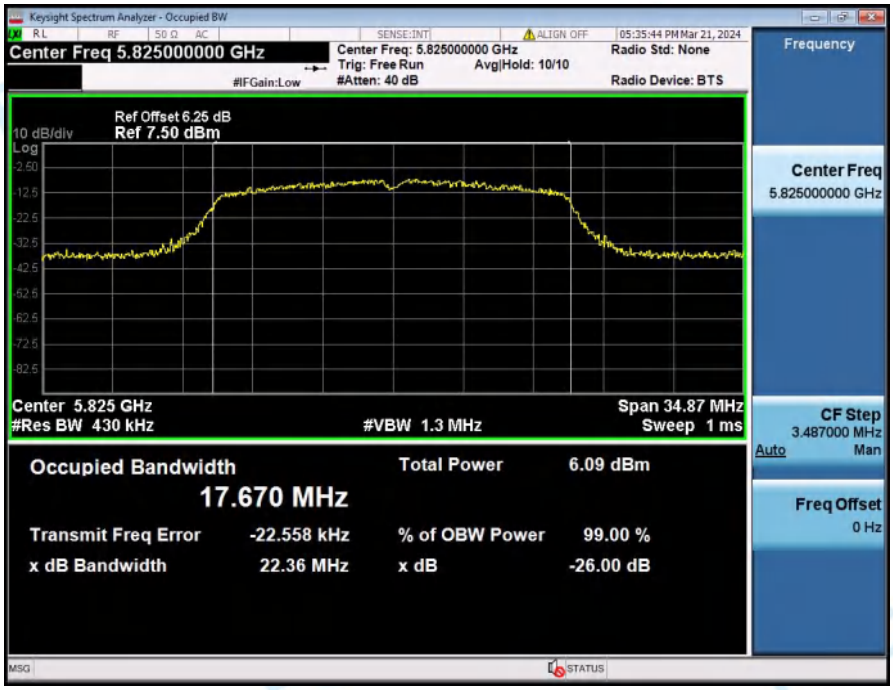
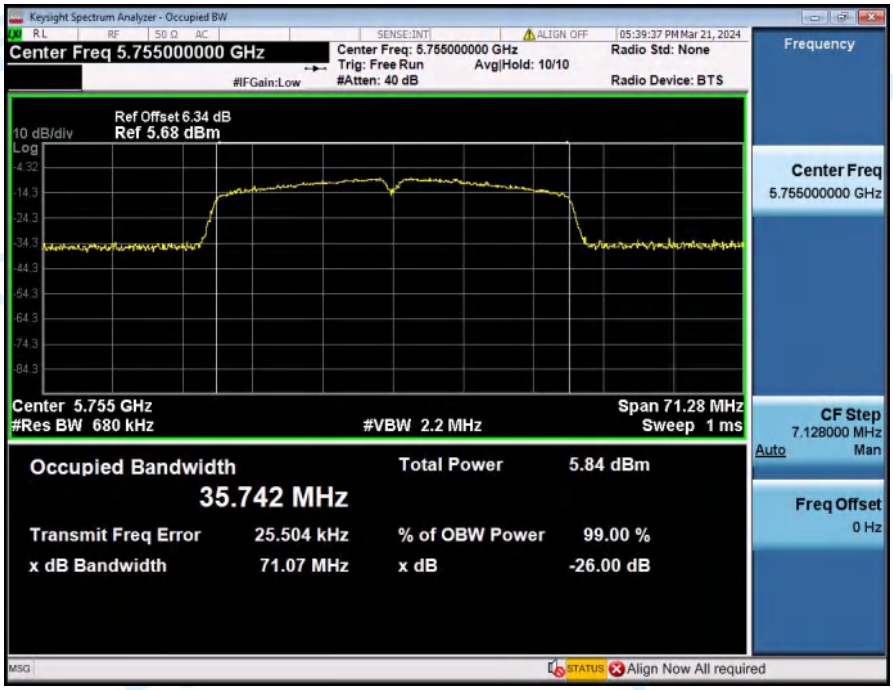


99%_OCB_NVNT_ANT1_802_11n(HT40)_5755



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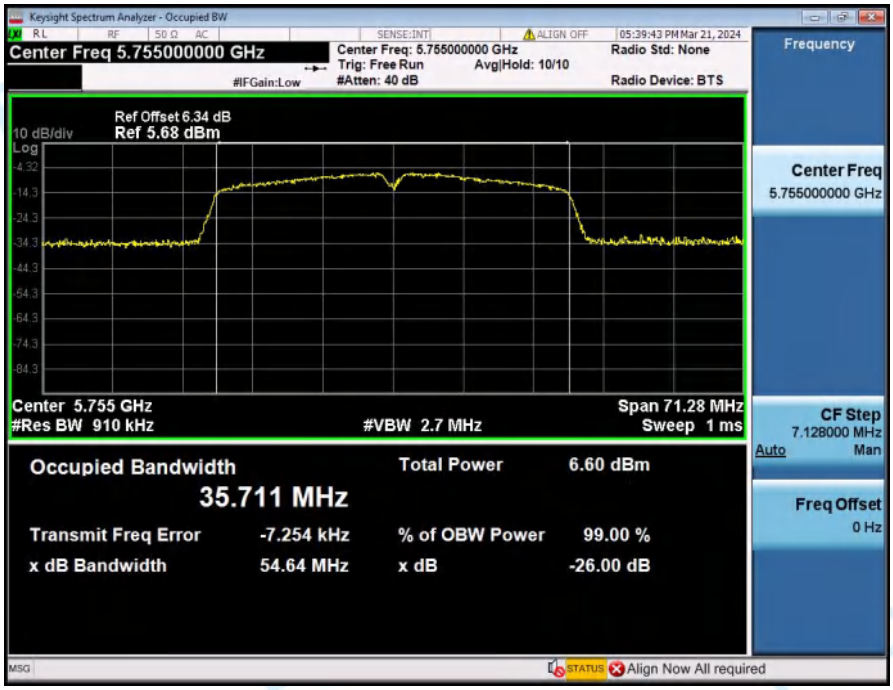
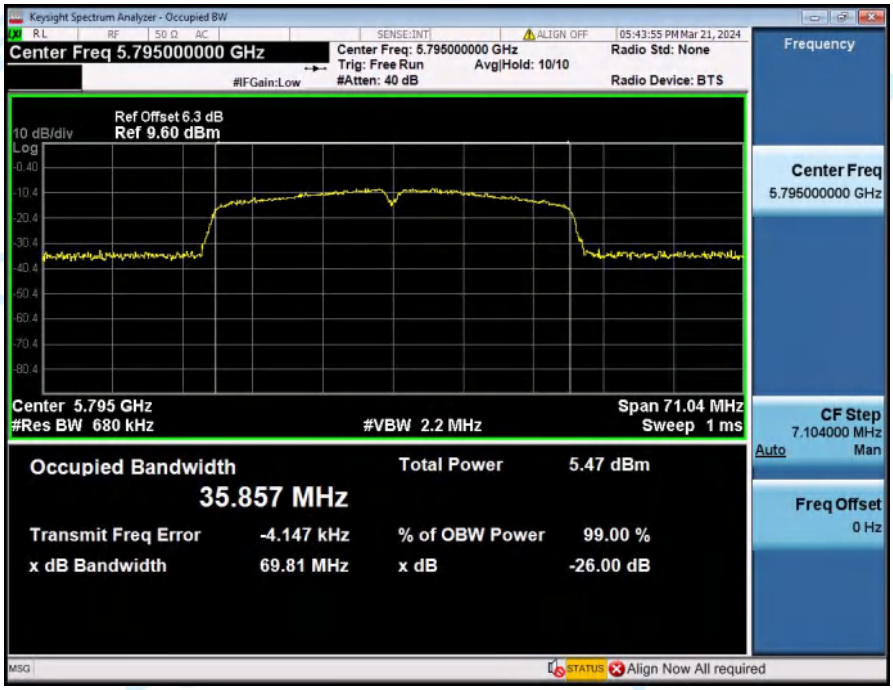


99%_OCB_NVNT_ANT1_802_11n(HT40)_5795



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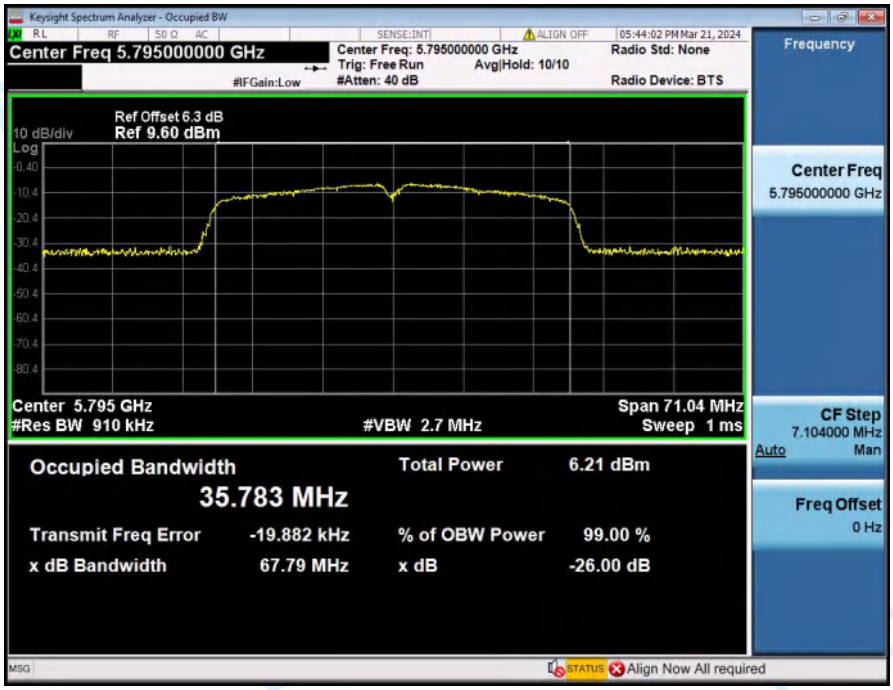
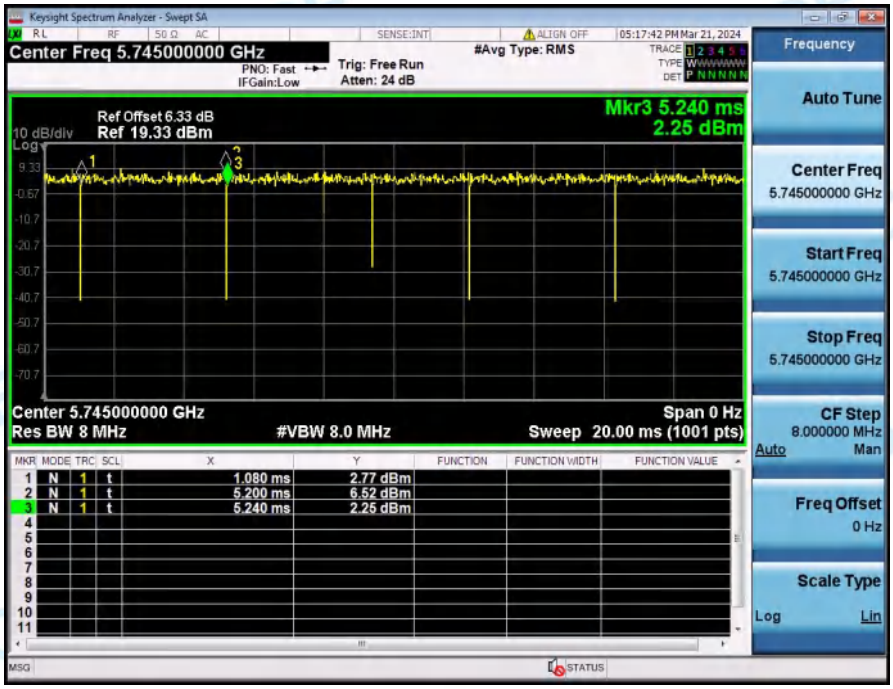


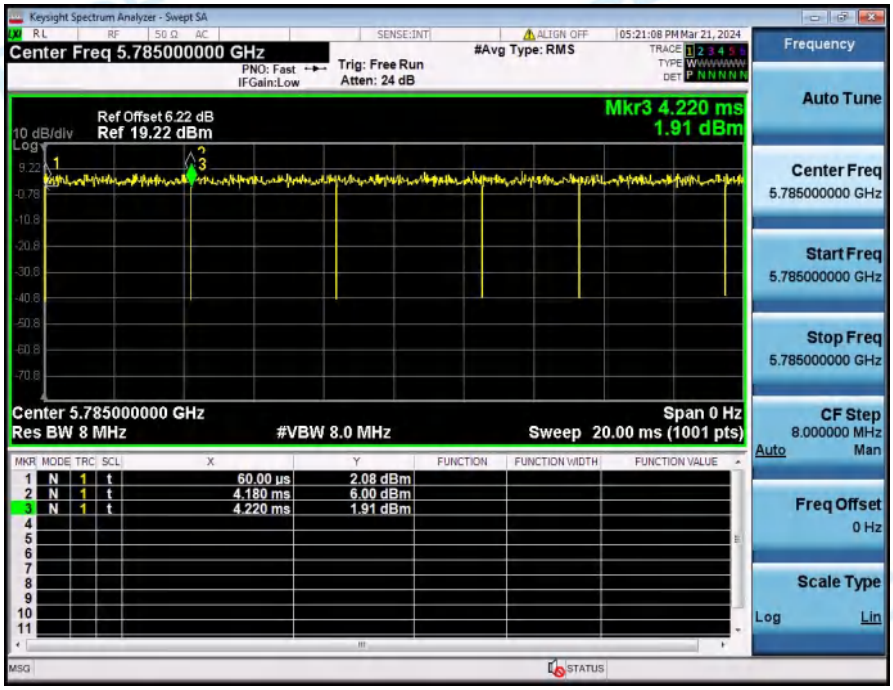
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	99.04	0.00
NVNT	ANT1	802.11a	5785.00	99.04	0.00
NVNT	ANT1	802.11a	5825.00	99.04	0.00
NVNT	ANT1	802.11n(HT20)	5745.00	96.92	0.14
NVNT	ANT1	802.11n(HT20)	5785.00	96.92	0.14
NVNT	ANT1	802.11n(HT20)	5825.00	96.92	0.14
NVNT	ANT1	802.11n(HT40)	5755.00	93.94	0.27
NVNT	ANT1	802.11n(HT40)	5795.00	93.94	0.27

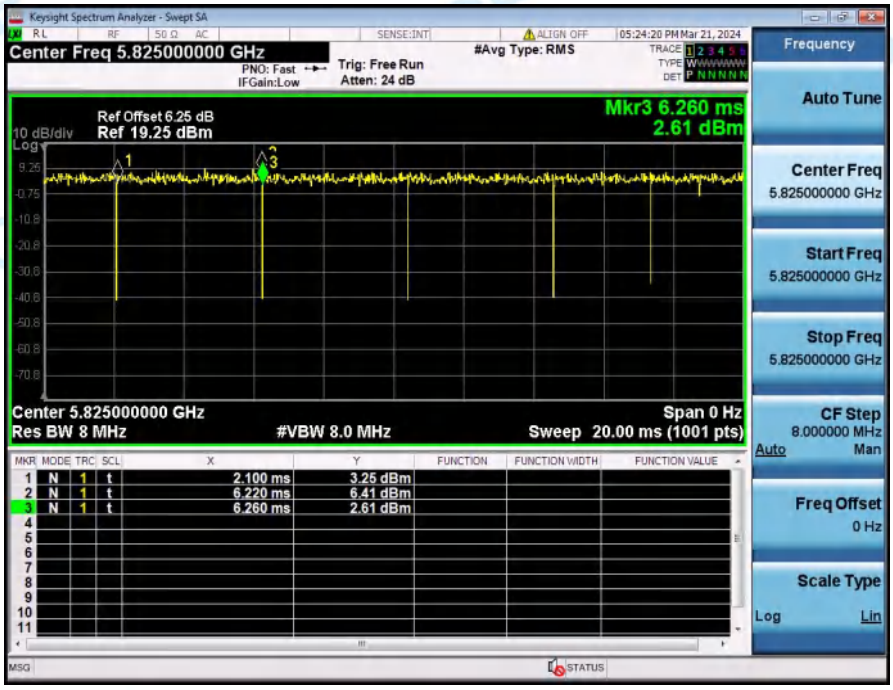
Duty_Cycle_NVNT_ANT1_802_11a_5745



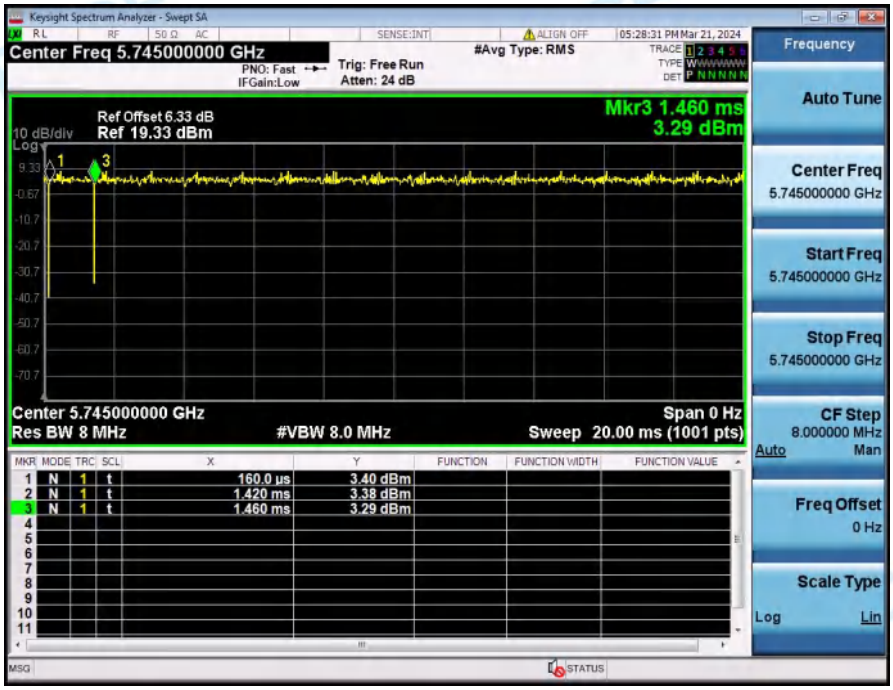
Duty_Cycle_NVNT_ANT1_802_11a_5785



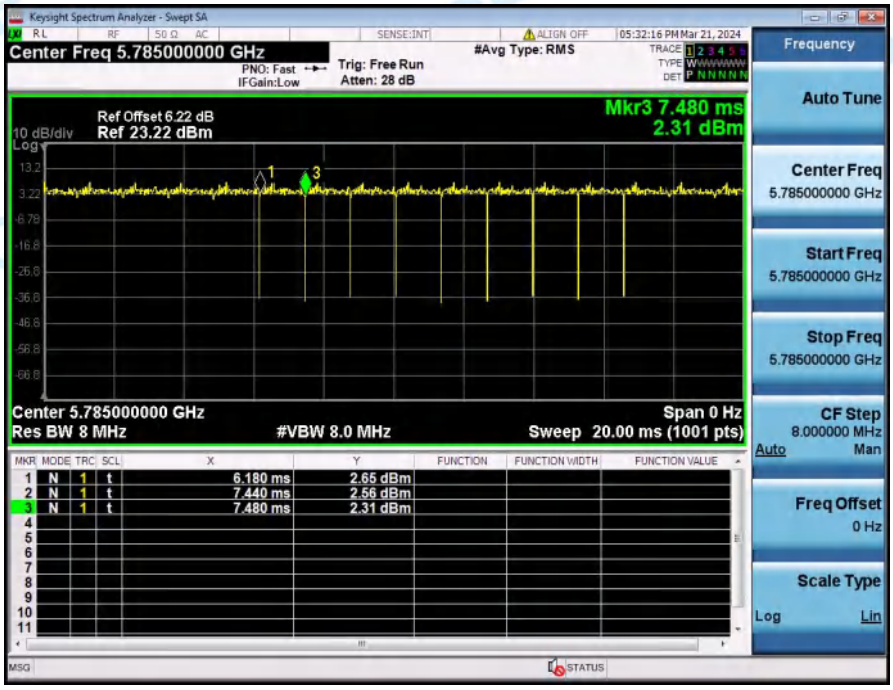
Duty_Cycle_NVNT_ANT1_802_11a_5825



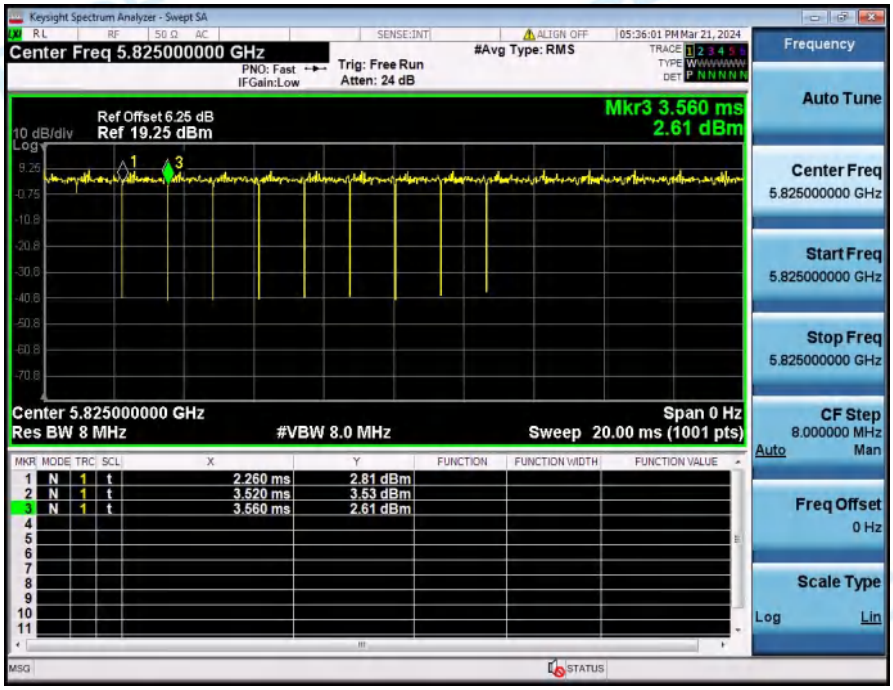
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5745



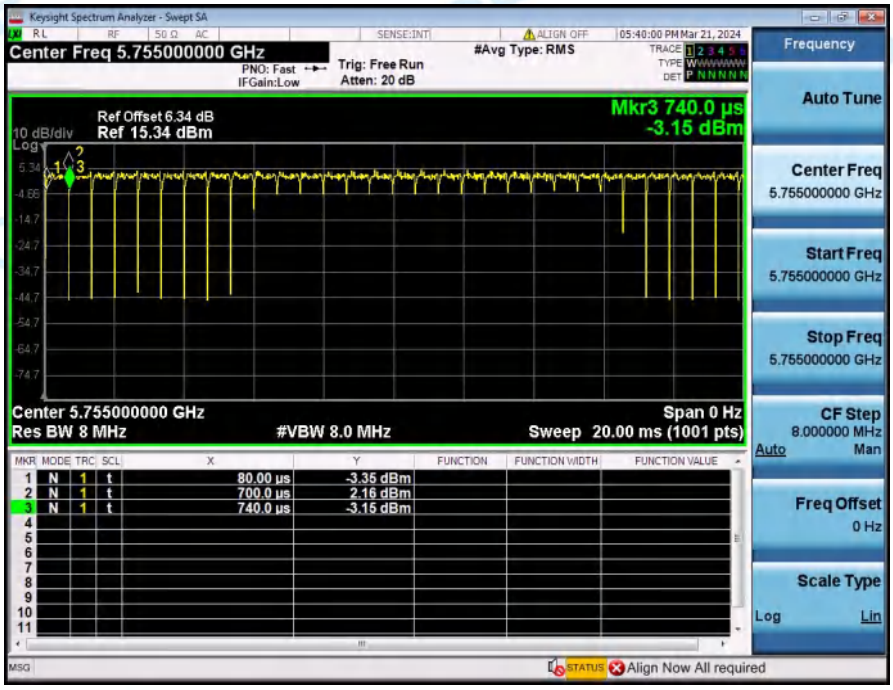
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5785



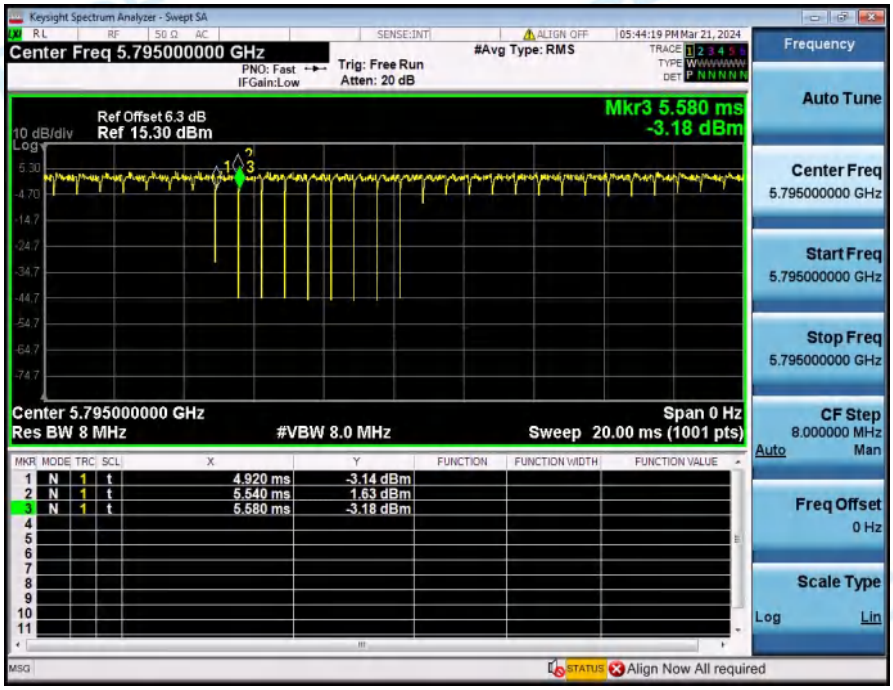
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5825



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5755



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5795

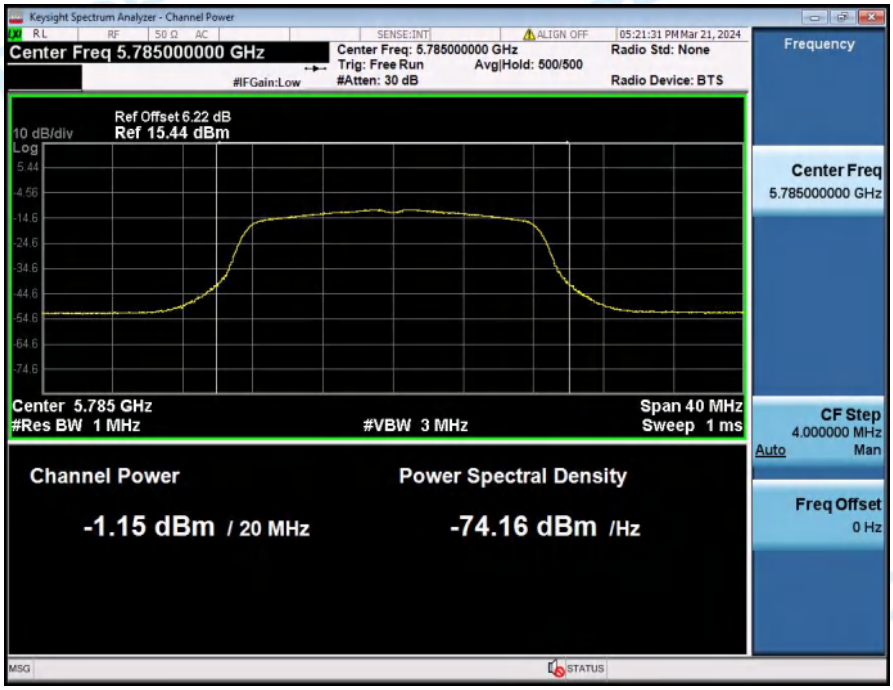


4. Maximum Conducted Output Power

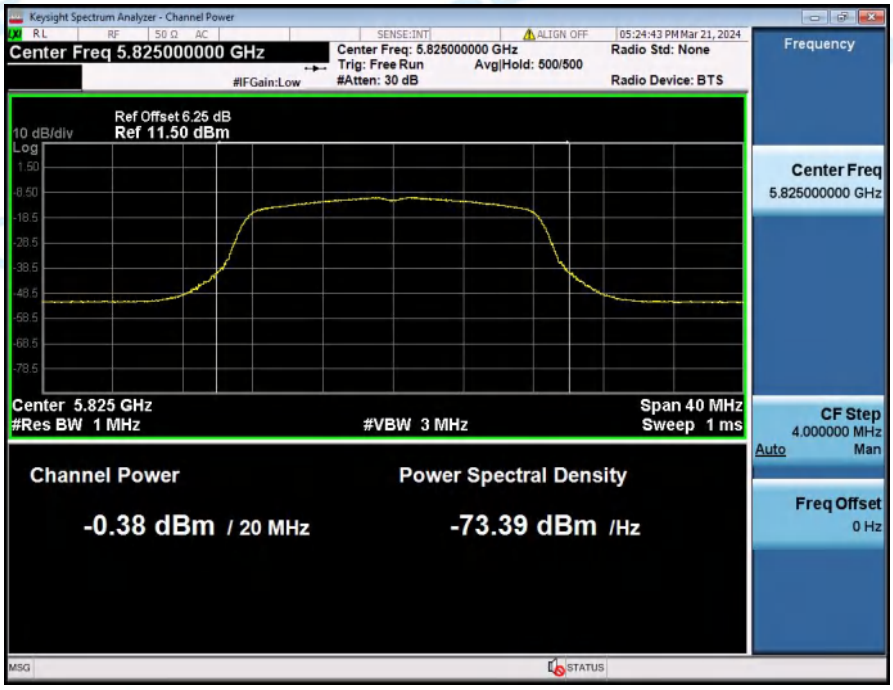
Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	-0.49	0.00	-0.49	30	Pass
NVNT	ANT1	802.11a	5785.00	-1.15	0.00	-1.15	30	Pass
NVNT	ANT1	802.11a	5825.00	-0.38	0.00	-0.38	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	-0.52	0.14	-0.38	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	-1.07	0.14	-0.93	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	-0.44	0.14	-0.30	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	-0.98	0.27	-0.71	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	-1.40	0.27	-1.13	30	Pass

Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5745

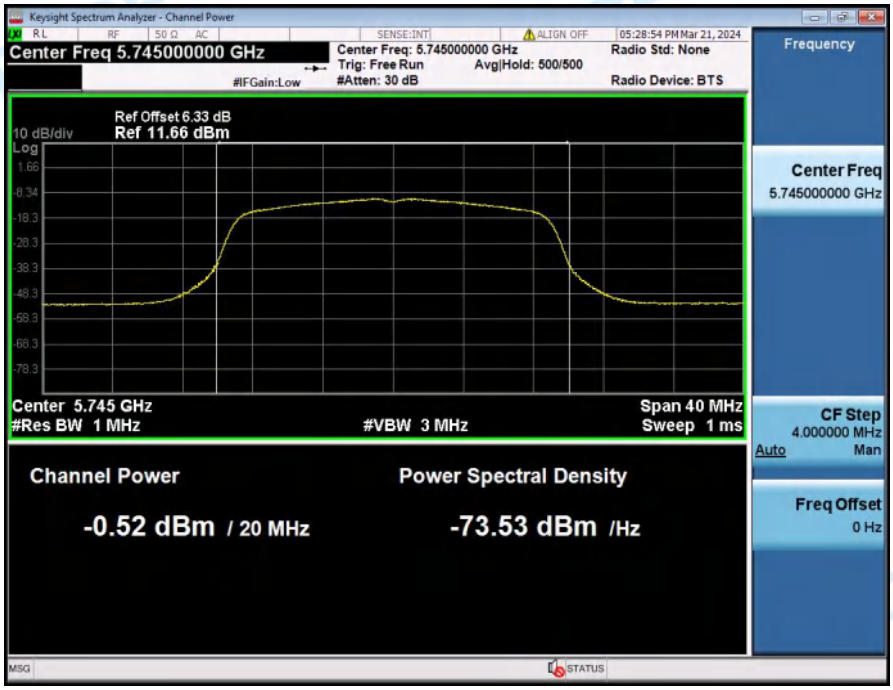
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5785



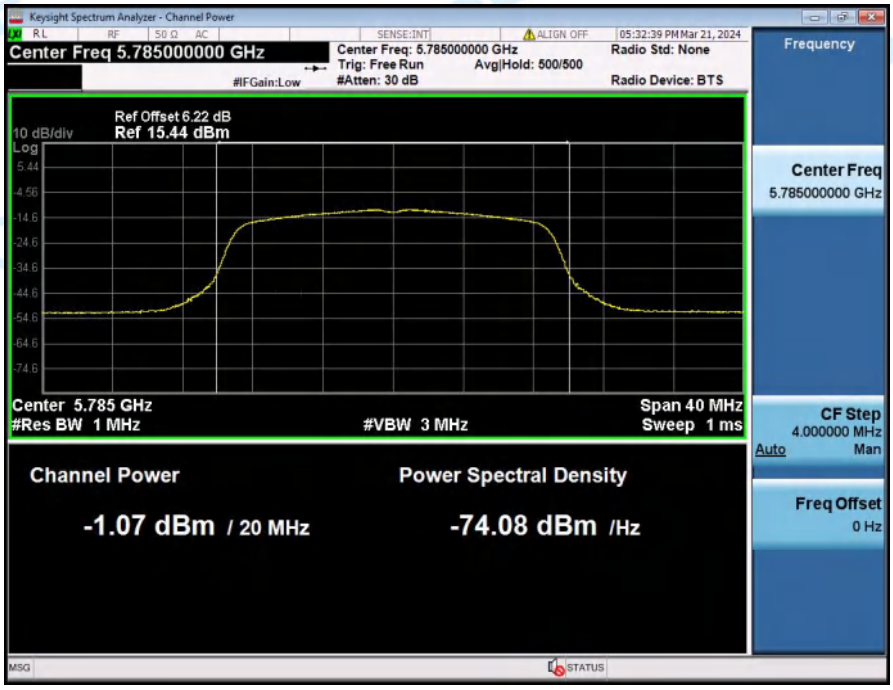
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5825



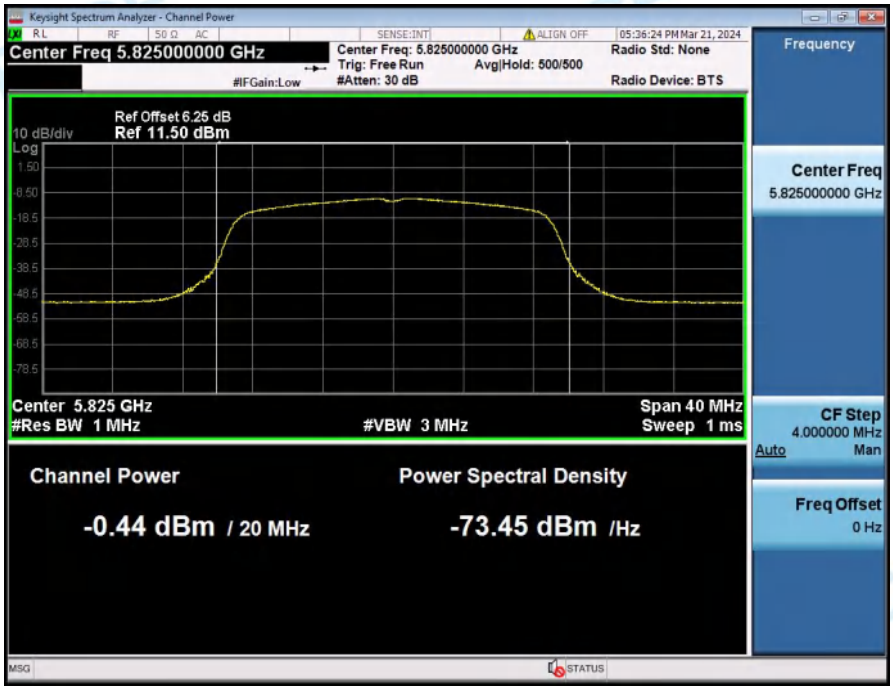
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5745



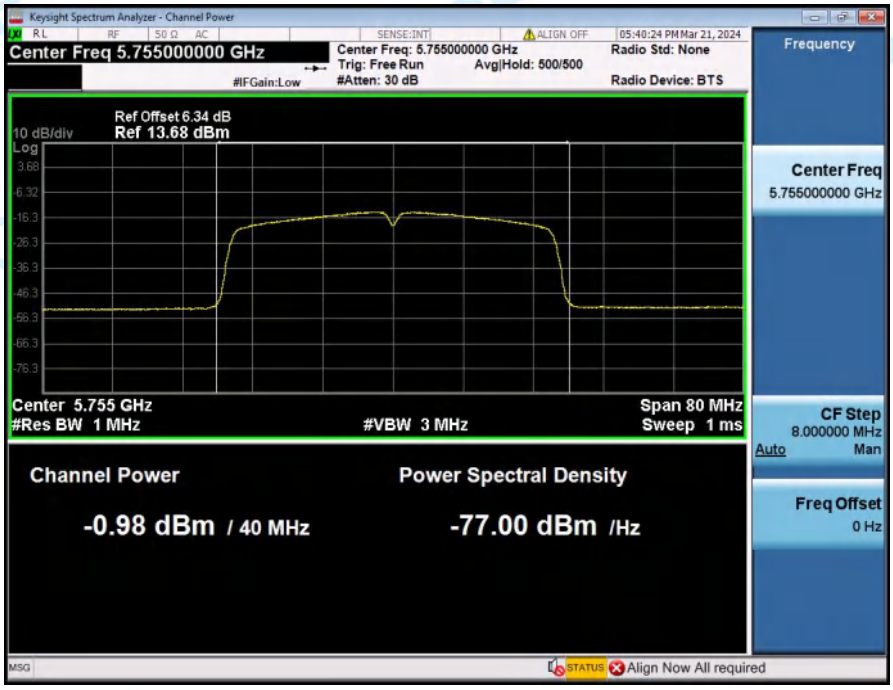
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5785



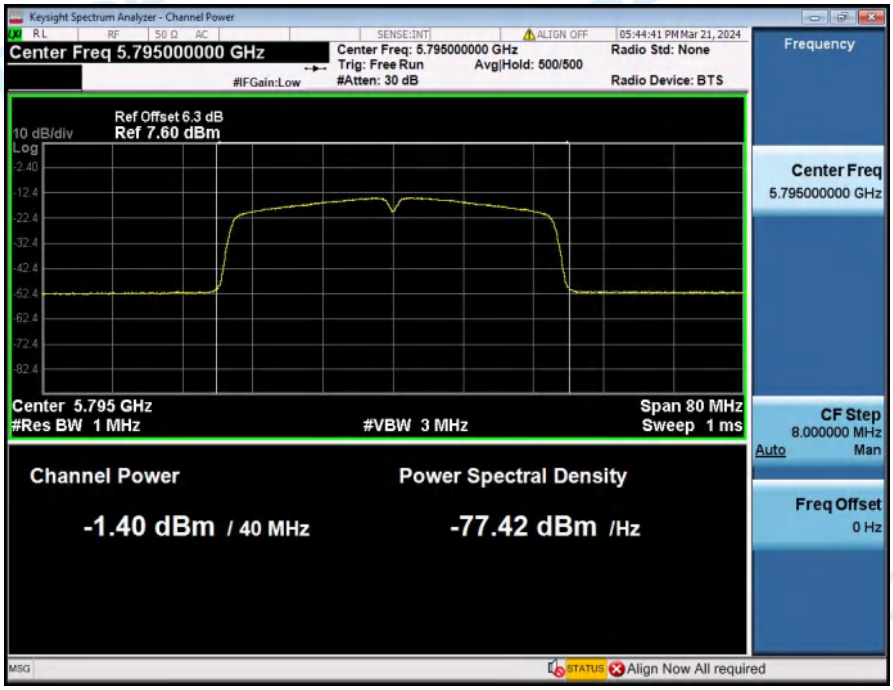
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5825



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5755



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5795

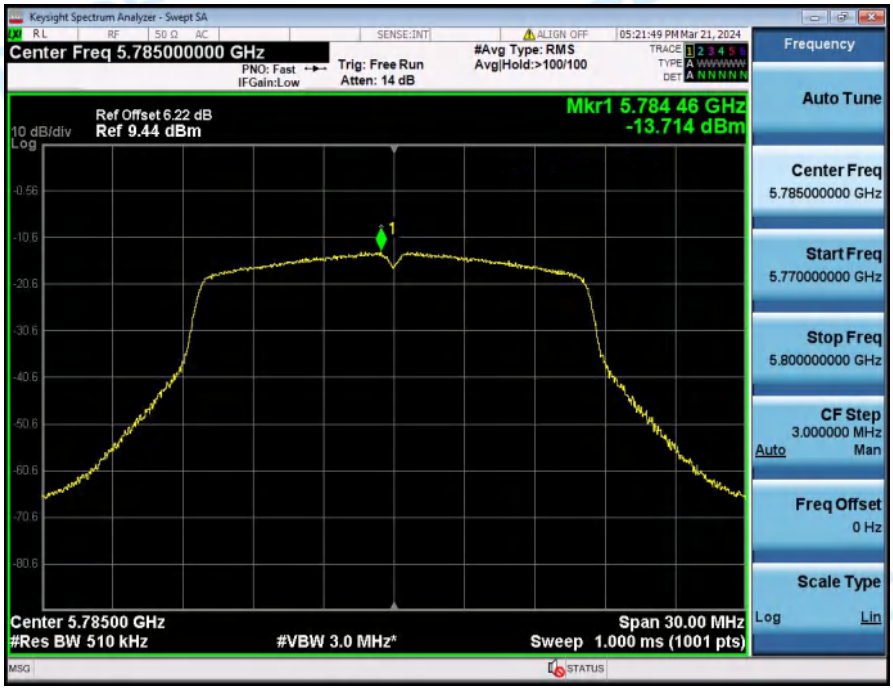


5. Power Spectral Density

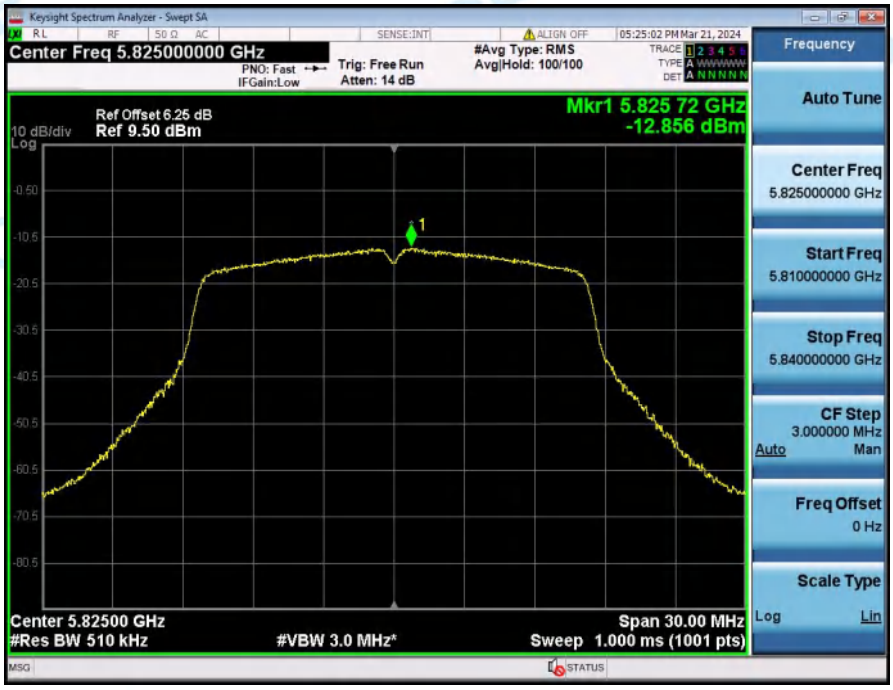
Condition	Modulation	Frequency (MHz)	PSD_SA(dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
NVNT	802.11a	5745.00	-12.89	0.00	-0	-12.98	30	Pass
NVNT	802.11a	5785.00	-13.71	0.00	-0	-13.80	30	Pass
NVNT	802.11a	5825.00	-12.86	0.00	-0	-12.94	30	Pass
NVNT	802.11n(HT20)	5745.00	-13.05	0.14	-0	-13.00	30	Pass
NVNT	802.11n(HT20)	5785.00	-13.60	0.14	-0	-13.55	30	Pass
NVNT	802.11n(HT20)	5825.00	-12.89	0.14	-0	-12.84	30	Pass
NVNT	802.11n(HT40)	5755.00	-16.45	0.27	-0	-16.26	30	Pass
NVNT	802.11n(HT40)	5795.00	-16.76	0.27	-0	-16.58	30	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5745

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

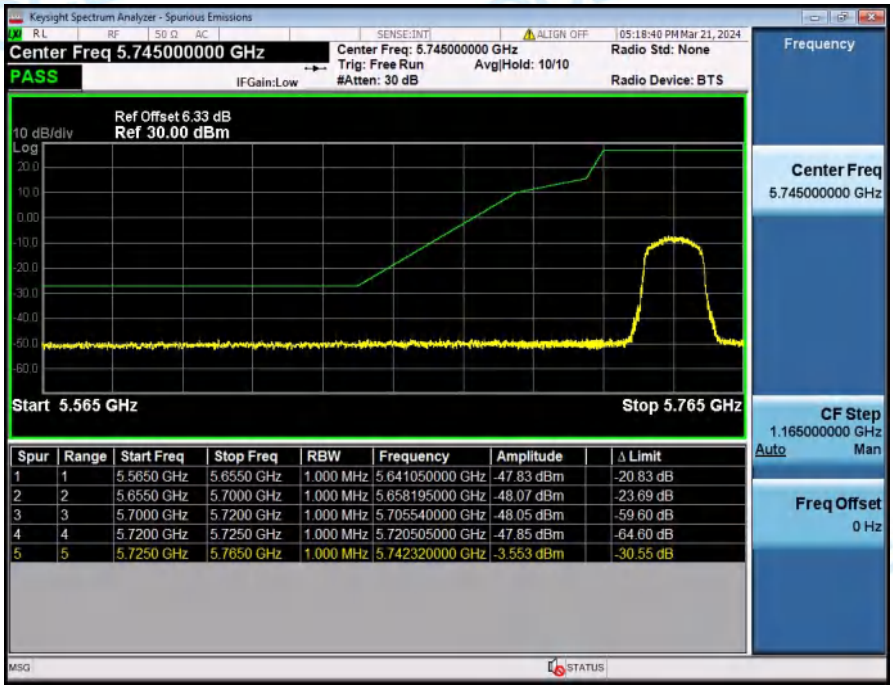
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5755

Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5795

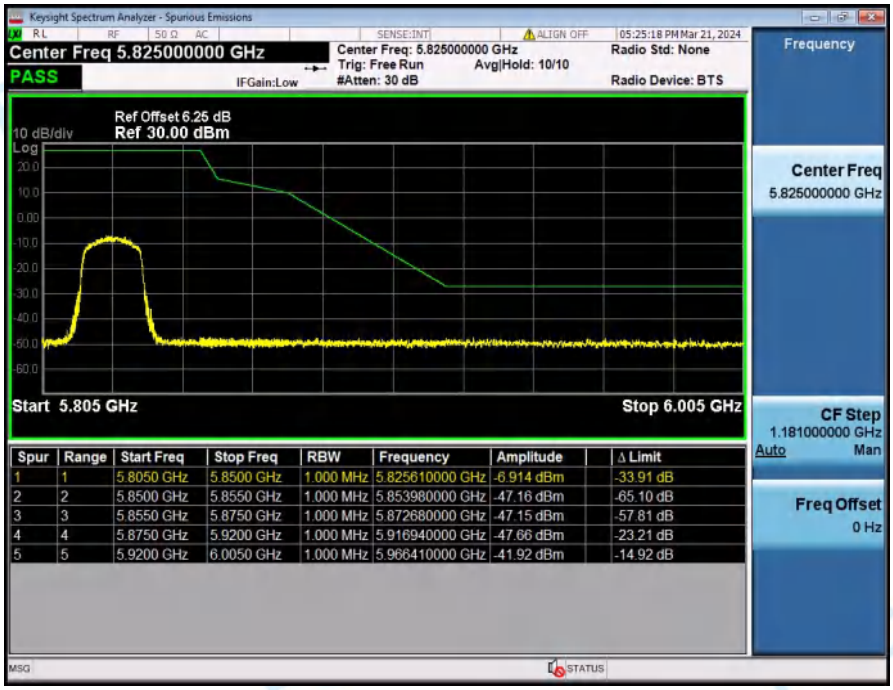
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Frequency Area(MHz)	Frequency(MHz)	Amplitude(dBm)	Limit(dBm)	Result
NVNT	ANT1	802.11a	LCH	5565-5655	5641.050	-47.83	-27.00	Pass
NVNT	ANT1	802.11a	LCH	5655-5700	5658.195	-48.07	-24.37	Pass
NVNT	ANT1	802.11a	LCH	5700-5720	5705.540	-48.05	11.55	Pass
NVNT	ANT1	802.11a	LCH	5720-5725	5720.505	-47.85	16.75	Pass
NVNT	ANT1	802.11a	HCH	5850-5855	5853.980	-47.16	17.93	Pass
NVNT	ANT1	802.11a	HCH	5855-5875	5872.680	-47.15	10.65	Pass
NVNT	ANT1	802.11a	HCH	5875-5920	5916.940	-47.66	-24.48	Pass
NVNT	ANT1	802.11a	HCH	5920-6005	5966.410	-41.92	-27.00	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5565-5655	5646.450	-47.76	-27.00	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5655-5700	5672.190	-47.78	-12.87	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5700-5720	5701.660	-47.45	10.46	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5720-5725	5720.110	-47.87	15.85	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5850-5855	5854.330	-47.05	17.13	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5855-5875	5873.720	-47.23	10.36	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5875-5920	5914.195	-46.94	-22.23	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5920-6005	5934.960	-42.43	-27.00	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5595-5655	5636.700	-48.14	-27.00	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5655-5700	5664.045	-47.91	-19.56	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5700-5720	5700.760	-47.94	10.21	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5720-5725	5720.735	-47.19	17.28	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5850-5855	5854.535	-47.14	16.66	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5855-5875	5871.600	-47.30	10.95	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5875-5920	5917.750	-47.10	-25.15	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5920-5955	5949.050	-43.04	-27.00	Pass

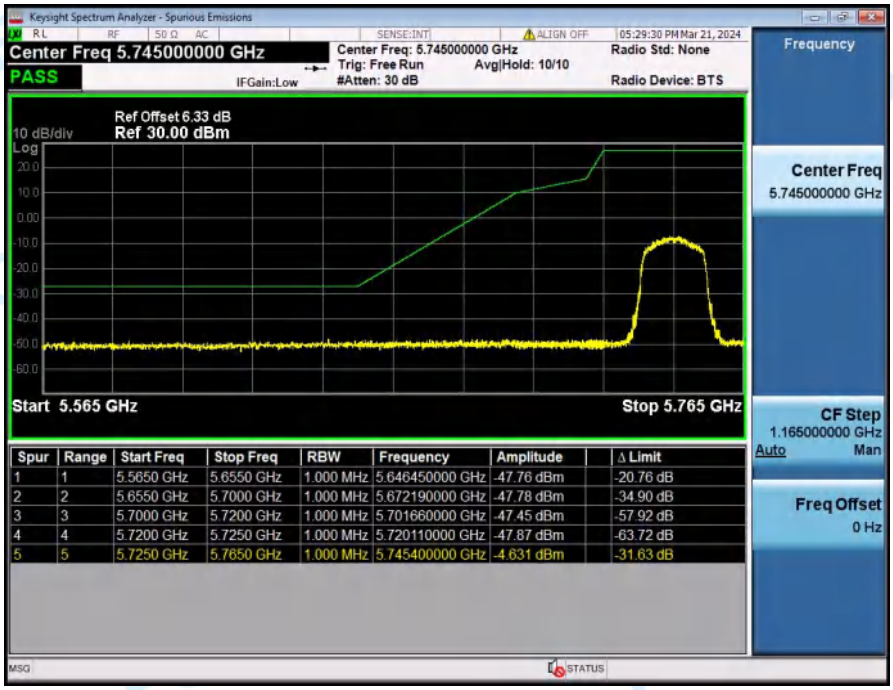
Bandedge_NVNT_ANT1_802_11a_5745



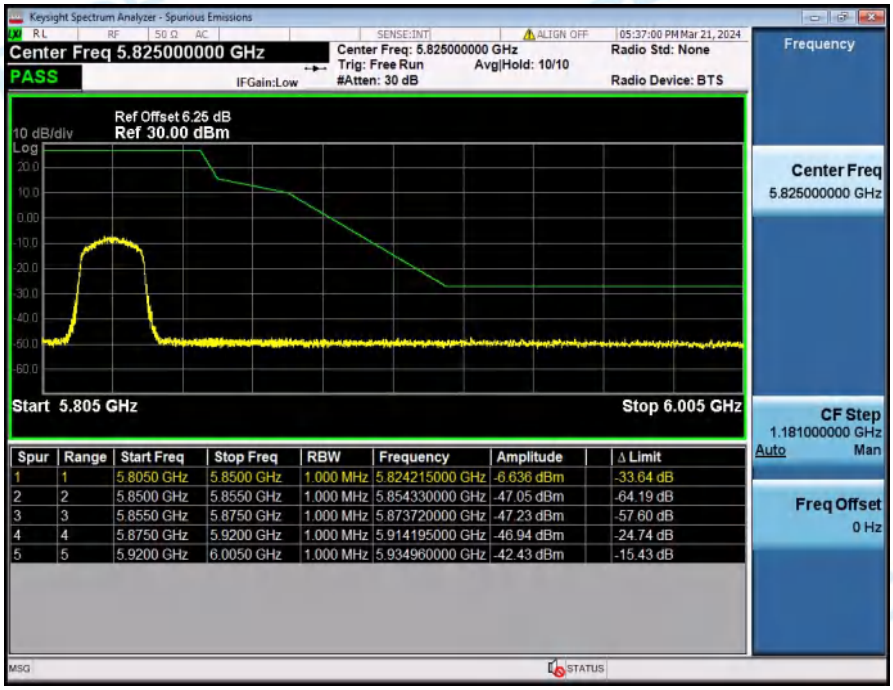
Bandedge_NVNT_ANT1_802_11a_5825



Bandedge_NVNT_ANT1_802_11n(HT20)_5745



Bandedge_NVNT_ANT1_802_11n(HT20)_5825



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.8050 GHz	5.8500 GHz	1.000 MHz	5.824215000 GHz	-6.636 dBm	-33.64 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.854330000 GHz	-47.05 dBm	-64.19 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.873720000 GHz	-47.23 dBm	-57.60 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.914195000 GHz	-46.94 dBm	-24.74 dB
5	5	5.9200 GHz	6.0050 GHz	1.000 MHz	5.934960000 GHz	-42.43 dBm	-15.43 dB

Bandedge_NVNT_ANT1_802_11n(HT40)_5755

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5950 GHz	5.6550 GHz	1.000 MHz	5.636700000 GHz	-48.14 dBm	-21.14 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.664045000 GHz	-47.91 dBm	-28.34 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.700760000 GHz	-47.94 dBm	-58.16 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.720735000 GHz	-47.19 dBm	-64.46 dB
5	5	5.7250 GHz	5.7950 GHz	1.000 MHz	5.758460000 GHz	-7.575 dBm	-34.57 dB

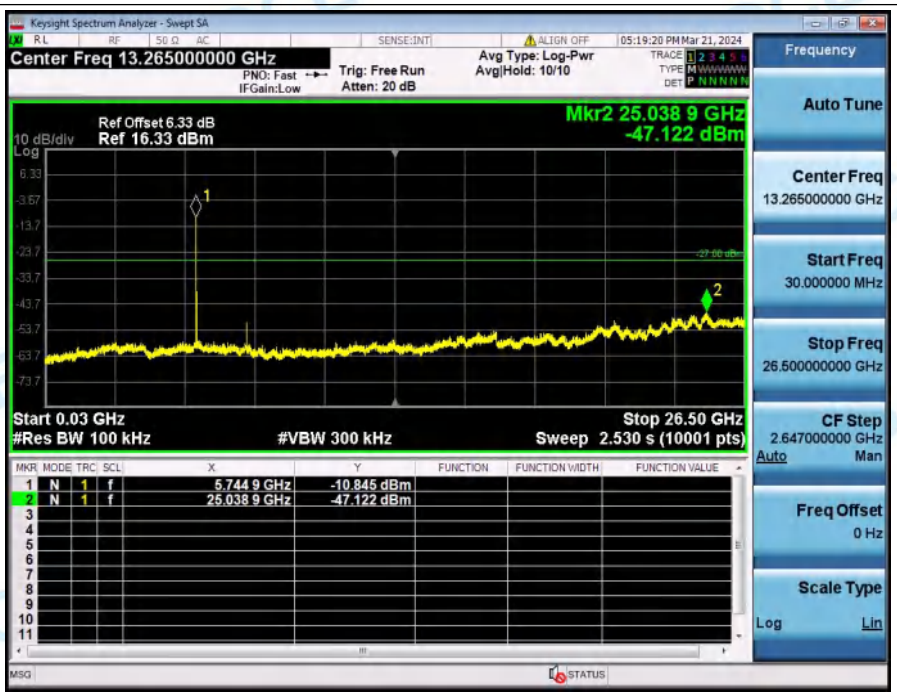
Bandedge_NVNT_ANT1_802_11n(HT40)_5795

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.7550 GHz	5.8500 GHz	1.000 MHz	5.796705000 GHz	-10.13 dBm	-37.13 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.854535000 GHz	-47.14 dBm	-63.81 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.871600000 GHz	-47.30 dBm	-58.26 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.917750000 GHz	-47.10 dBm	-21.98 dB
5	5	5.9200 GHz	5.9550 GHz	1.000 MHz	5.949050000 GHz	-43.04 dBm	-16.04 dB

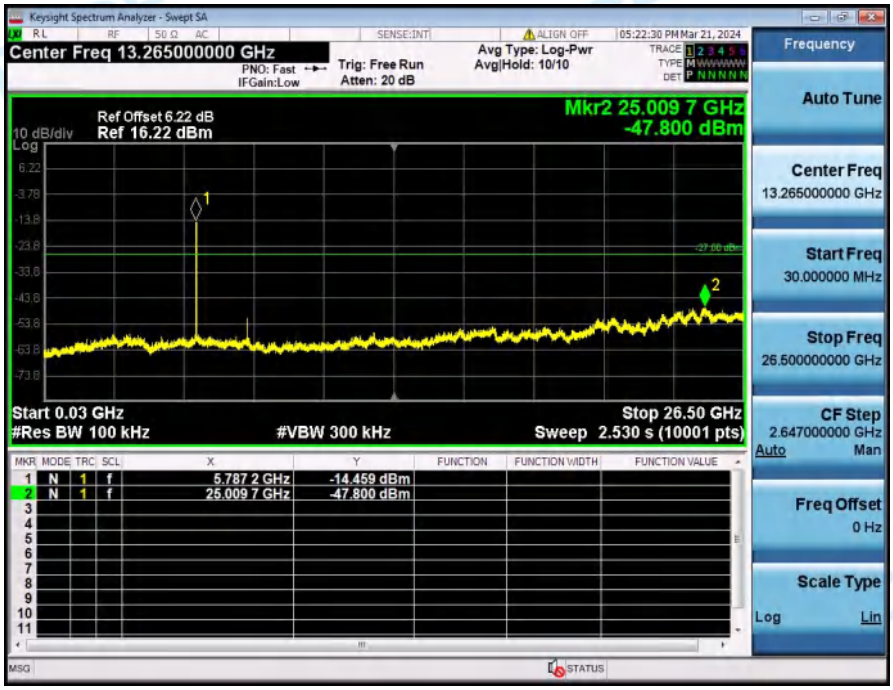
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	25038.86	-47.12	-27	Pass
NVNT	ANT1	802.11a	5785.00	25009.74	-47.80	-27	Pass
NVNT	ANT1	802.11a	5825.00	25057.38	-47.62	-27	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	25057.38	-47.37	-27	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	25062.68	-47.43	-27	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	26208.83	-47.26	-27	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	25017.68	-47.11	-27	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	25004.44	-47.91	-27	Pass

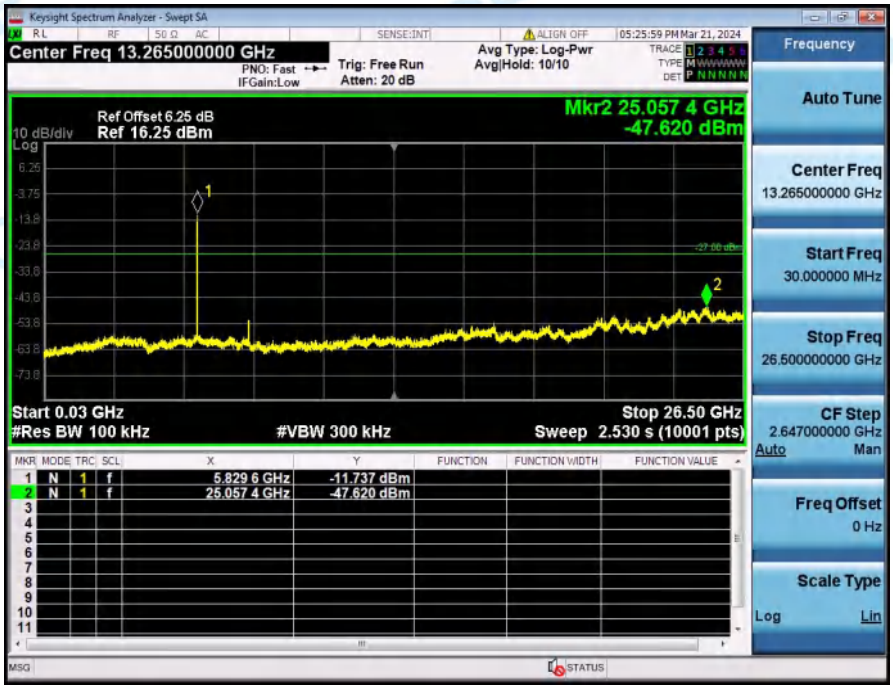
Spurious_Emission_NVNT_ANT1_802_11a_5745



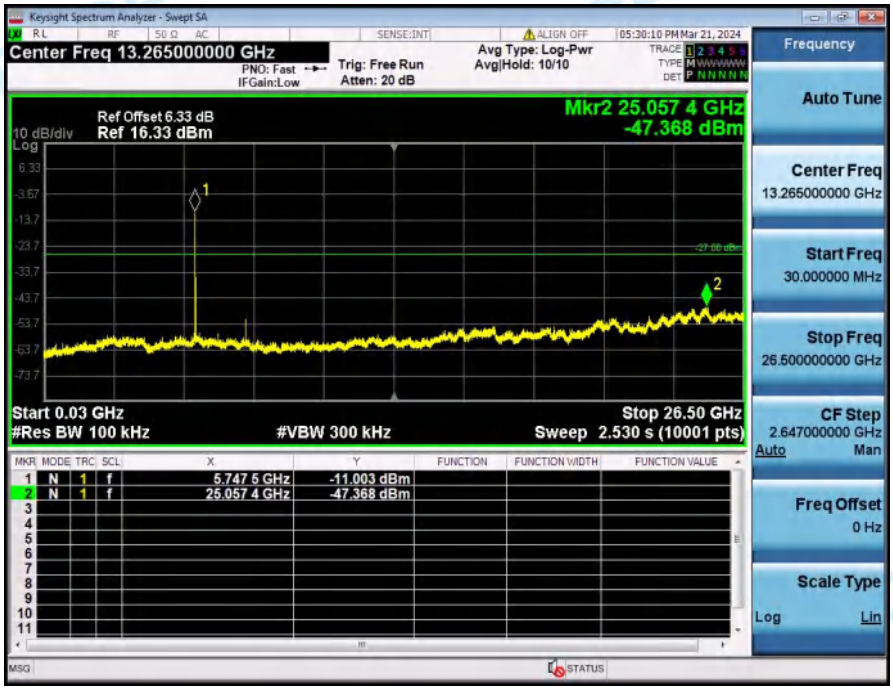
Spurious_Emission_NVNT_ANT1_802_11a_5785



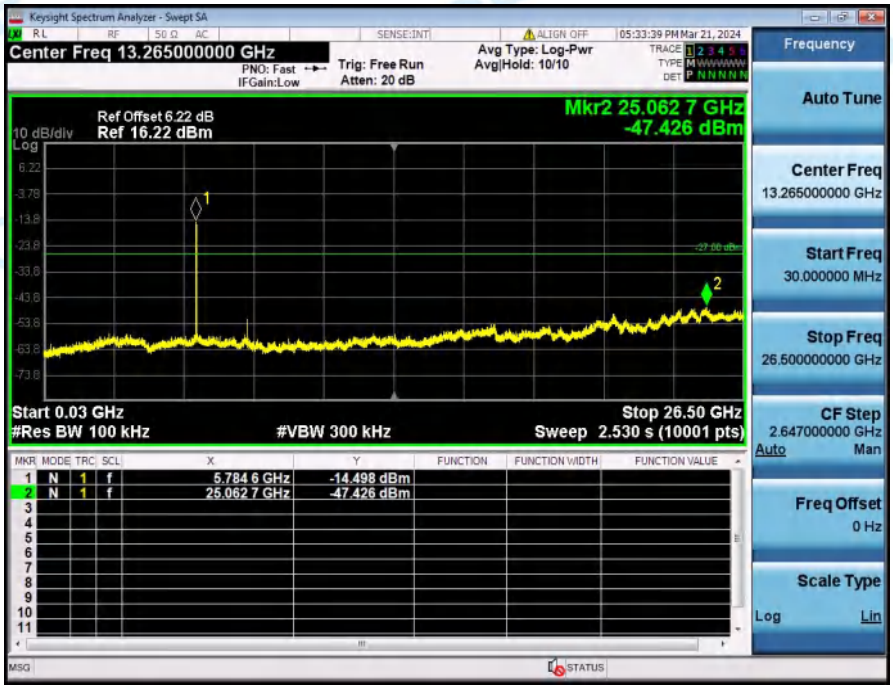
Spurious_Emission_NVNT_ANT1_802_11a_5825



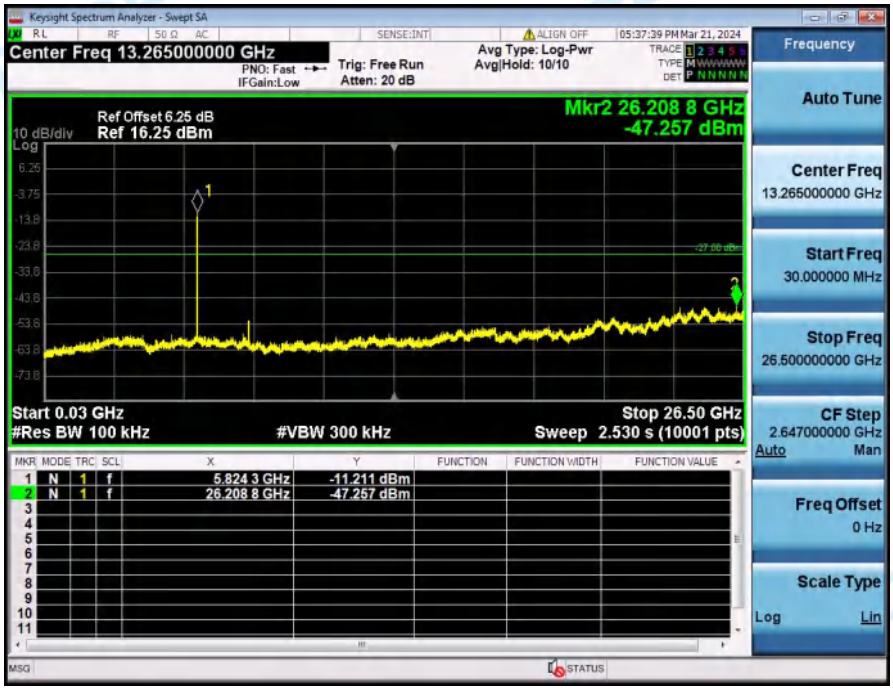
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5745



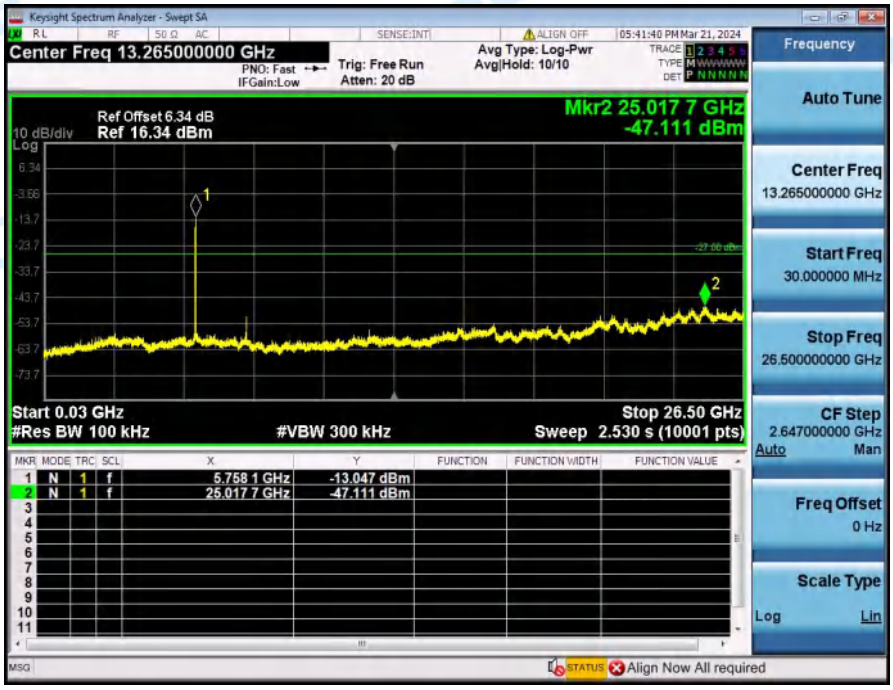
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5785



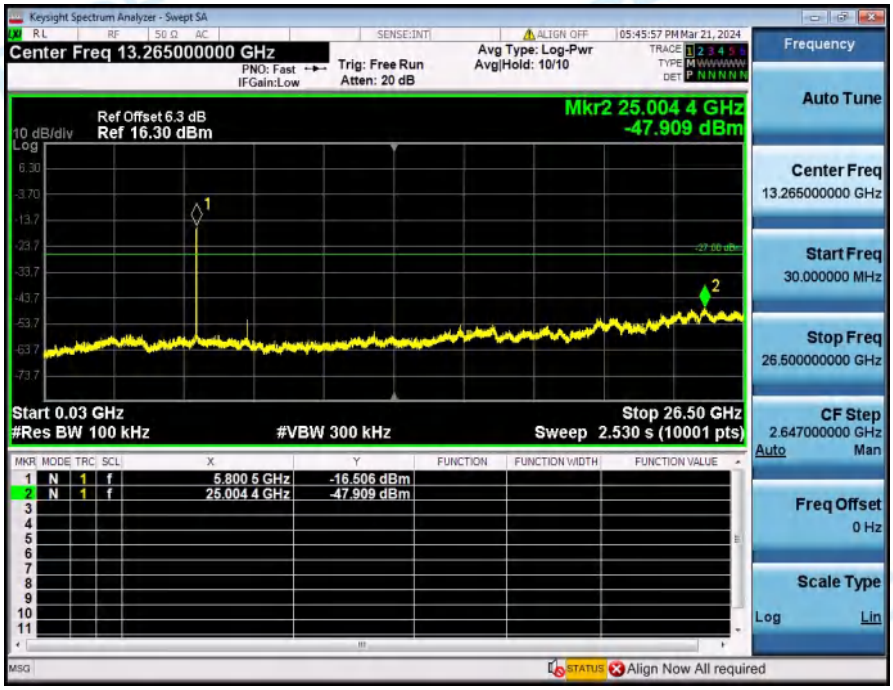
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5825



Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5755



Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5795

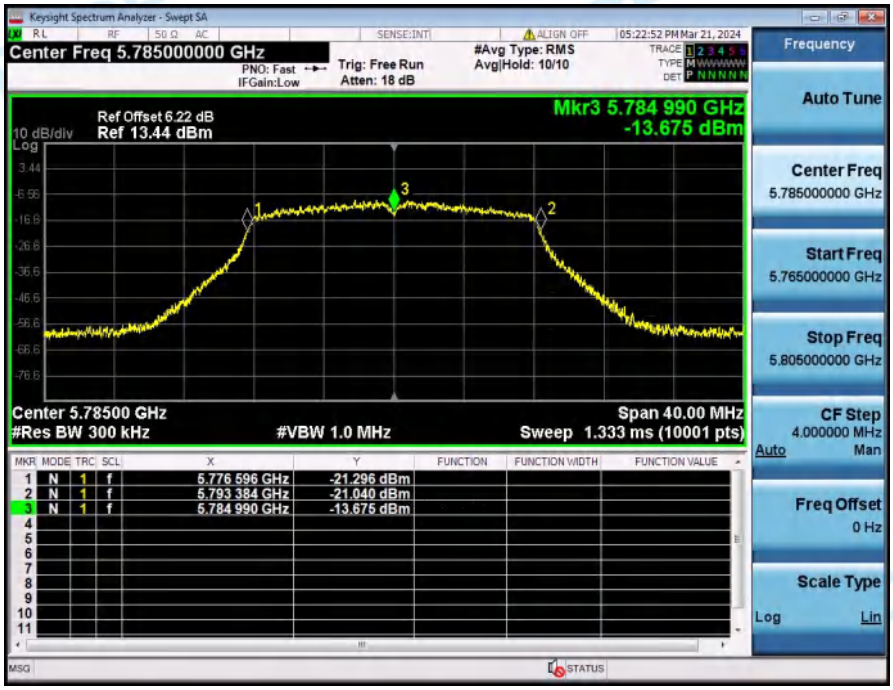


8. Frequency Stability

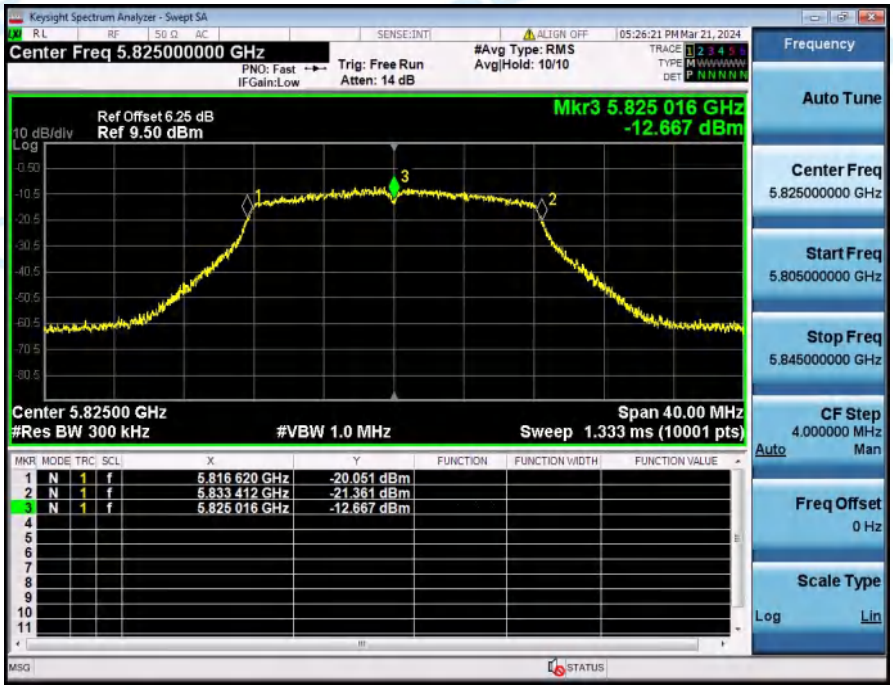
Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	5745.026	5736.644	5753.408	5725~5850	Pass
NVNT	ANT1	802.11a	5785.00	5784.990	5776.596	5793.384	5725~5850	Pass
NVNT	ANT1	802.11a	5825.00	5825.016	5816.620	5833.412	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	5744.966	5736.068	5753.864	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	5784.964	5776.036	5793.892	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	5824.956	5816.016	5833.896	5725~5850	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	5754.968	5737.016	5772.920	5725~5850	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	5794.976	5777.032	5812.920	5725~5850	Pass

Frequency_Stability_NVNT_ANT1_802_11a_5745

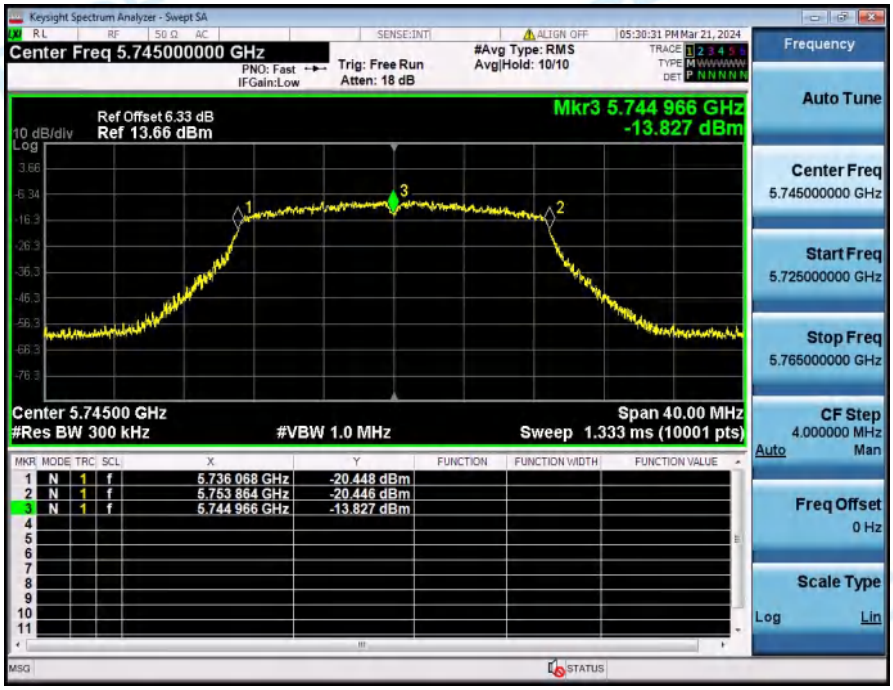
Frequency_Stability_NVNT_ANT1_802_11a_5785



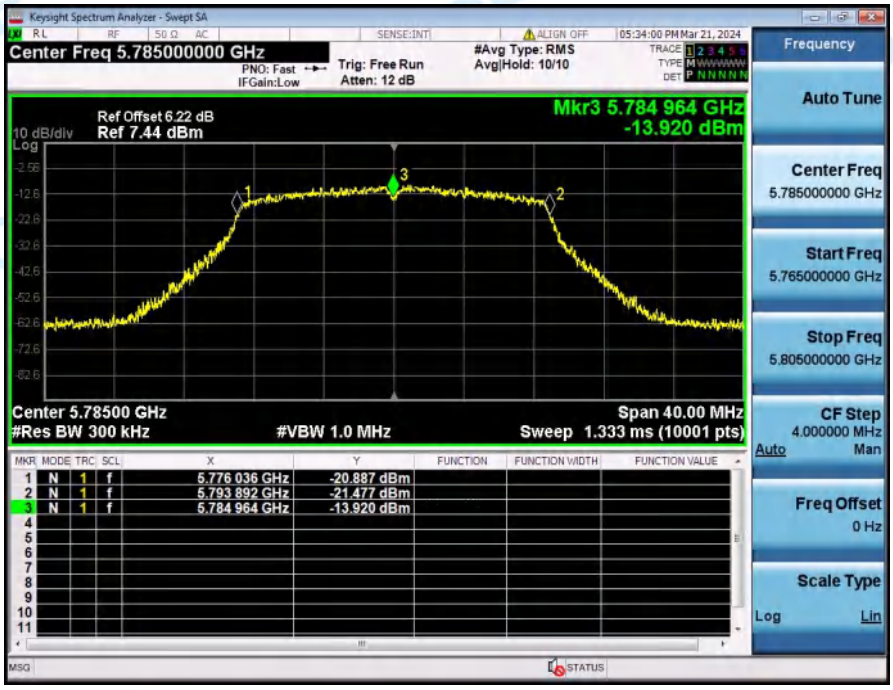
Frequency_Stability_NVNT_ANT1_802_11a_5825



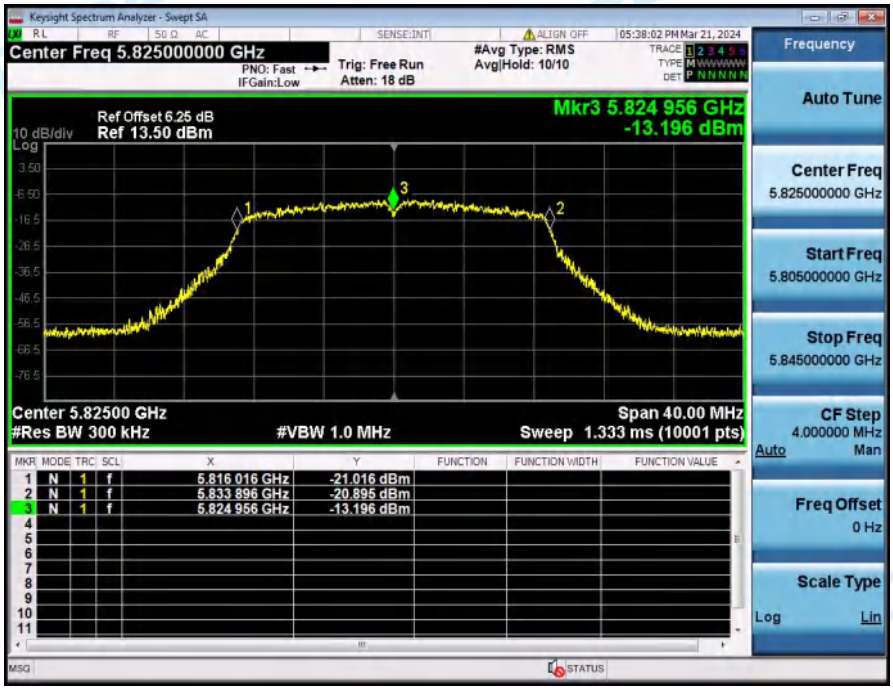
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5745



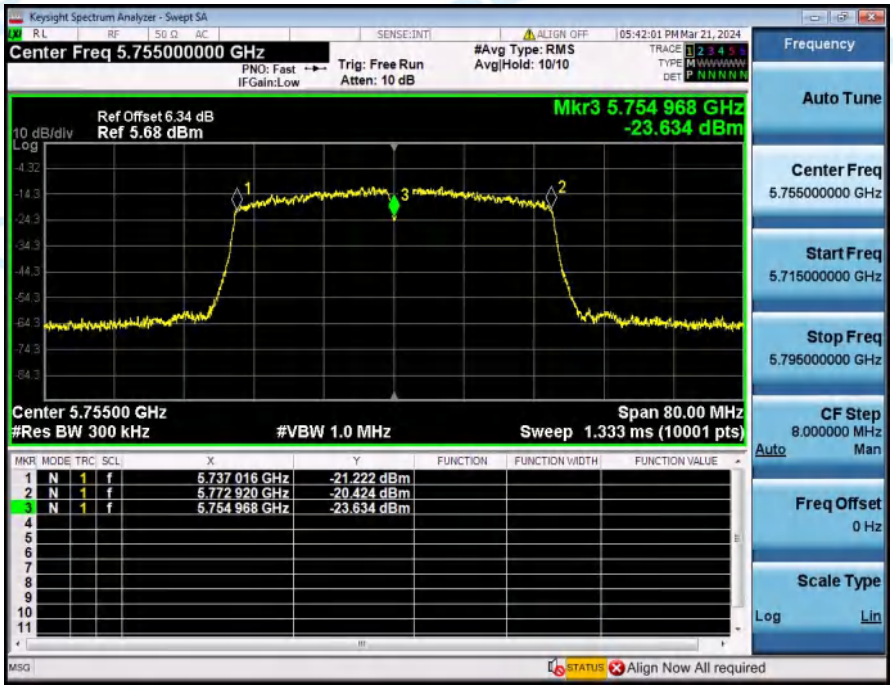
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5785



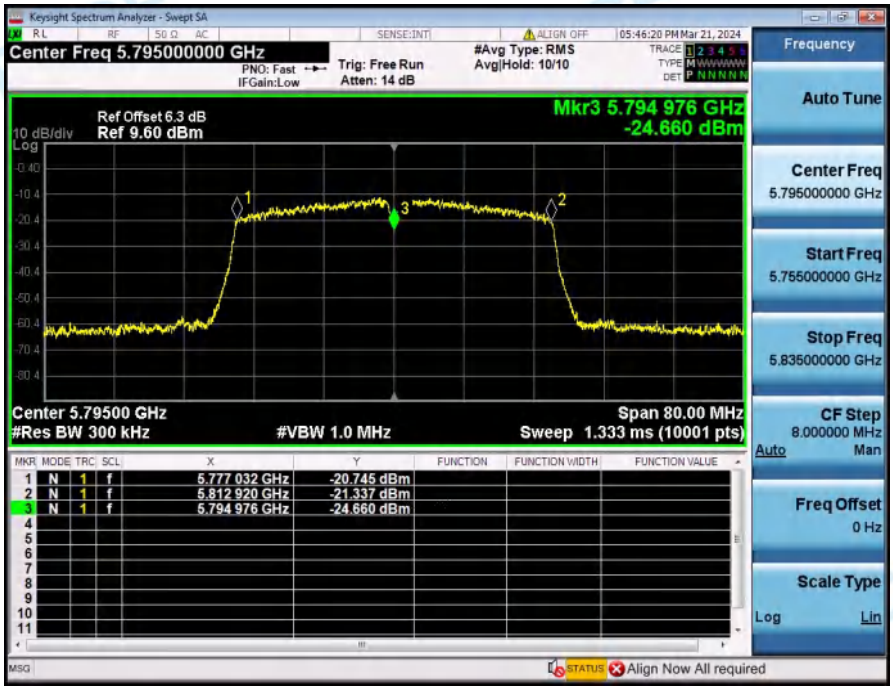
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5825



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5755



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5795



********** End of Report **********