

Table of Contents

1. -26dB and 99% Emission Bandwidth	2
2. Duty Cycle	10
3. Maximum Conducted Output Power	18
4. Power Spectral Density	26
5. Bandedge	34
6. Spurious Emission	40

240603 FCC ID WIFI5.1

FCC_5.2G_WIFI (Part15.407) Test Data

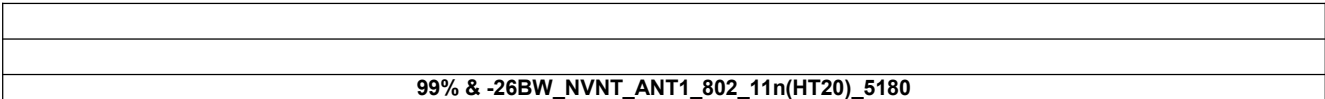
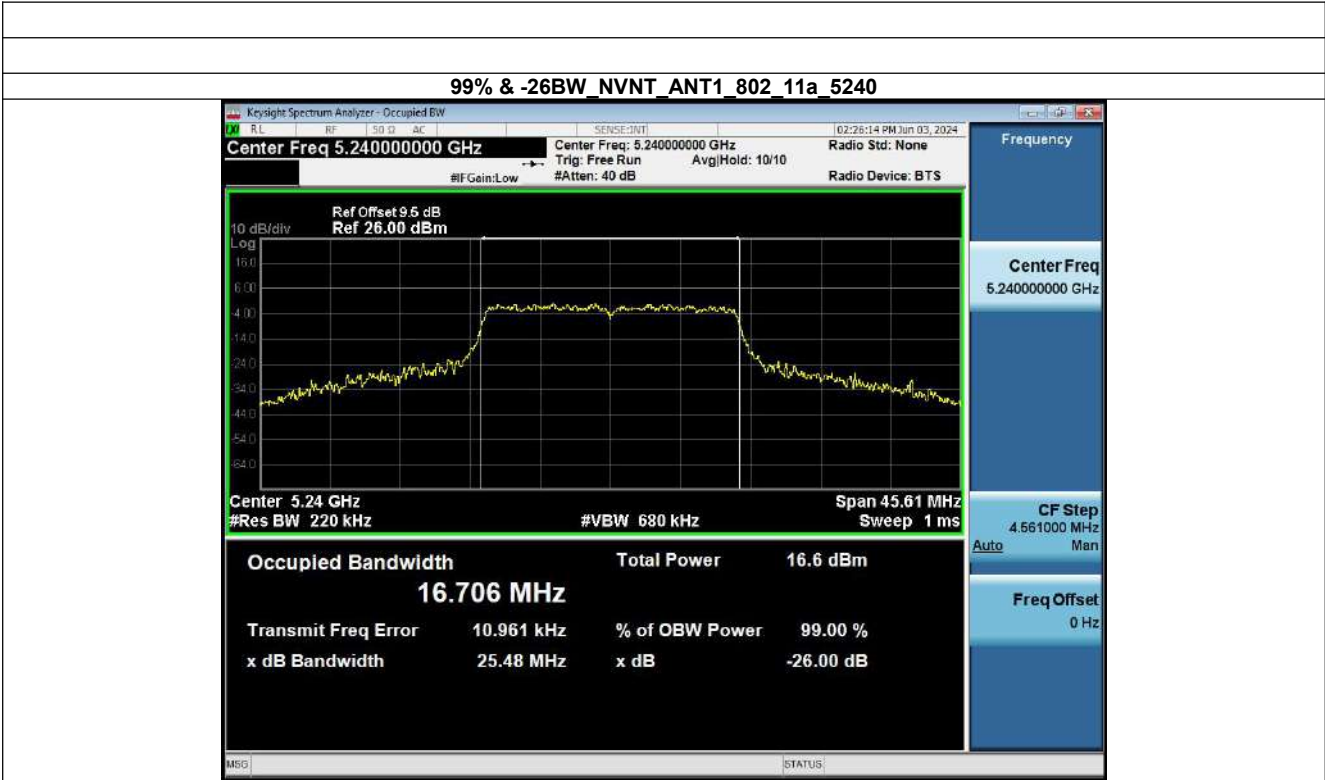
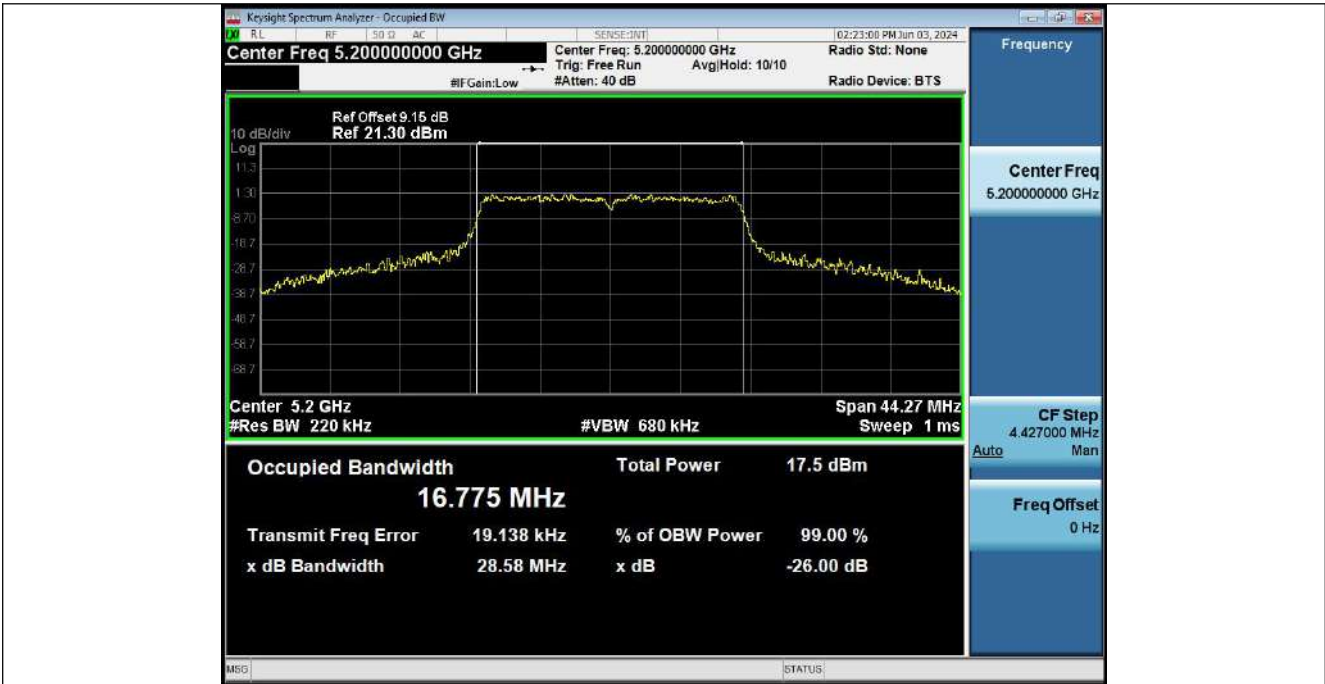
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	30.81	16.791
NVNT	ANT1	802.11a	5200.00	28.58	16.735
NVNT	ANT1	802.11a	5240.00	25.48	16.706
NVNT	ANT1	802.11n(HT20)	5180.00	30.89	16.975
NVNT	ANT1	802.11n(HT20)	5200.00	30.48	16.941
NVNT	ANT1	802.11n(HT20)	5240.00	31.61	17.920
NVNT	ANT1	802.11ac(VHT20)	5180.00	34.46	18.058
NVNT	ANT1	802.11ac(VHT20)	5200.00	31.65	17.938
NVNT	ANT1	802.11ac(VHT20)	5240.00	29.00	17.880
NVNT	ANT1	802.11n(HT40)	5190.00	47.71	36.401
NVNT	ANT1	802.11n(HT40)	5230.00	44.91	36.361
NVNT	ANT1	802.11ac(VHT40)	5190.00	48.02	36.482
NVNT	ANT1	802.11ac(VHT40)	5230.00	46.10	36.358
NVNT	ANT1	802.11ac(VHT80)	5210.00	86.99	75.756

99% & -26BW_NVNT_ANT1_802_11a_5180



99% & -26BW_NVNT_ANT1_802_11a_5200





99% & -26BW_NVNT_ANT1_802_11n(HT20)_5200



99% & -26BW_NVNT_ANT1_802_11n(HT20)_5240



99% & -26BW_NVNT_ANT1_802_11ac(VHT20)_5180



99% & -26BW_NVNT_ANT1_802_11ac(VHT20)_5200



99% & -26BW_NVNT_ANT1_802_11ac(VHT20)_5240



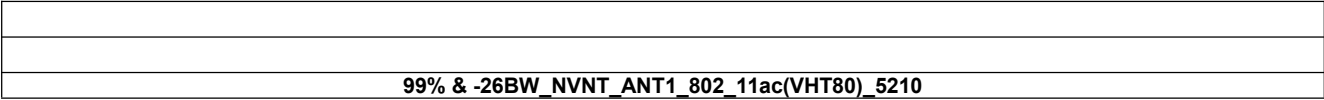
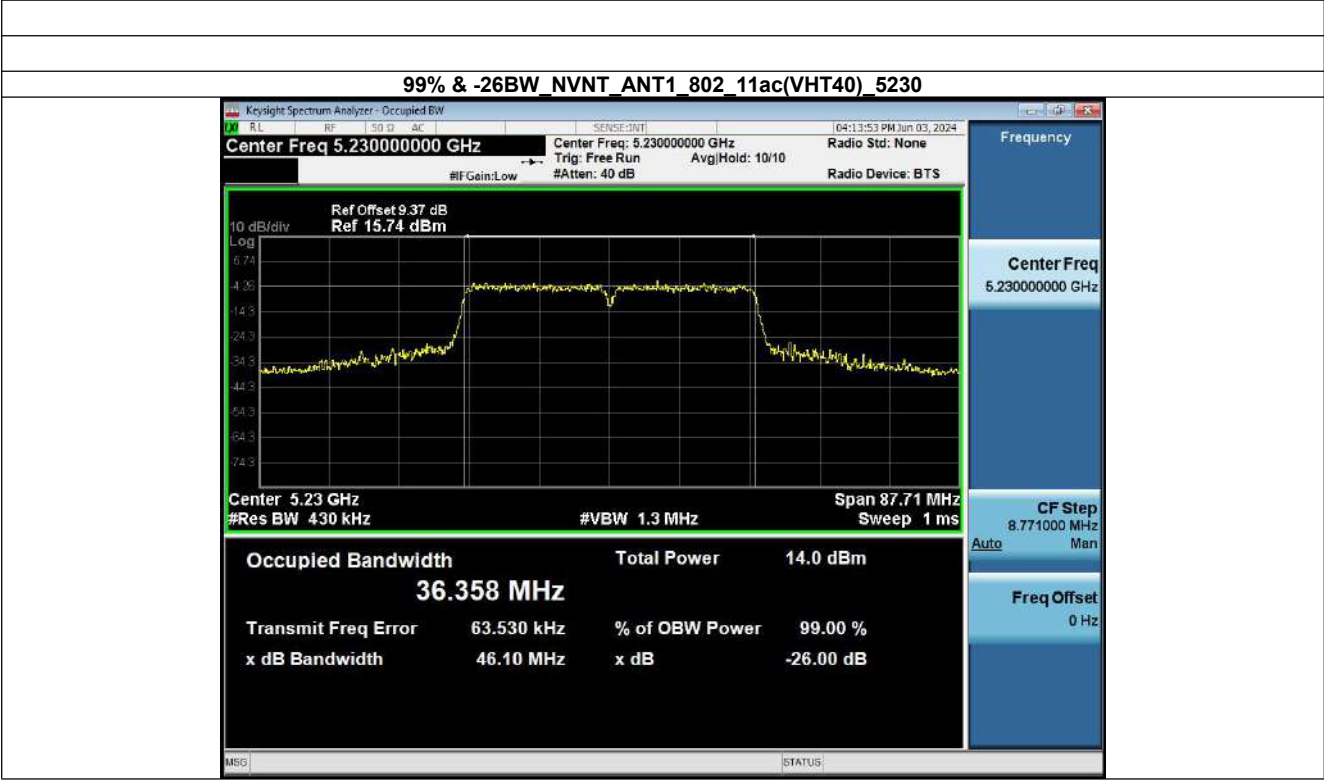
99% & -26BW_NVNT_ANT1_802_11n(HT40)_5190



99% & -26BW_NVNT_ANT1_802_11n(HT40)_5230



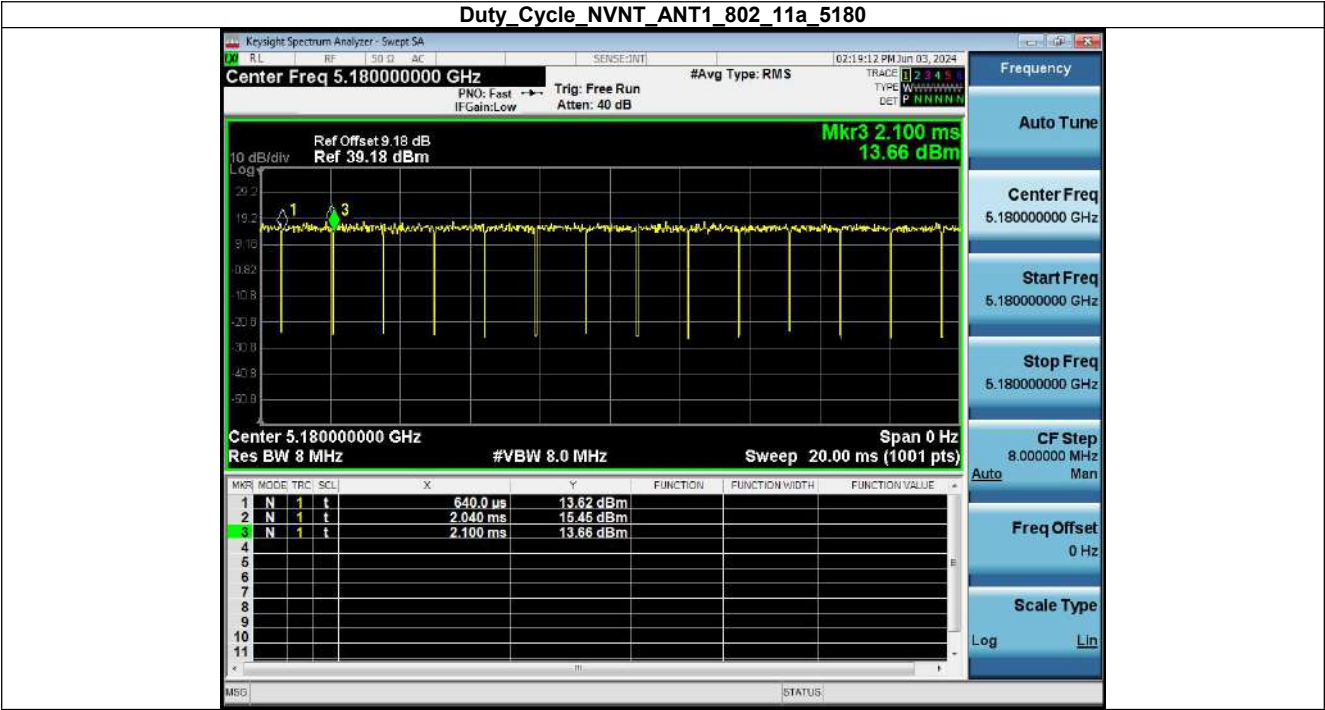
99% & -26BW_NVNT_ANT1_802_11ac(VHT40)_5190



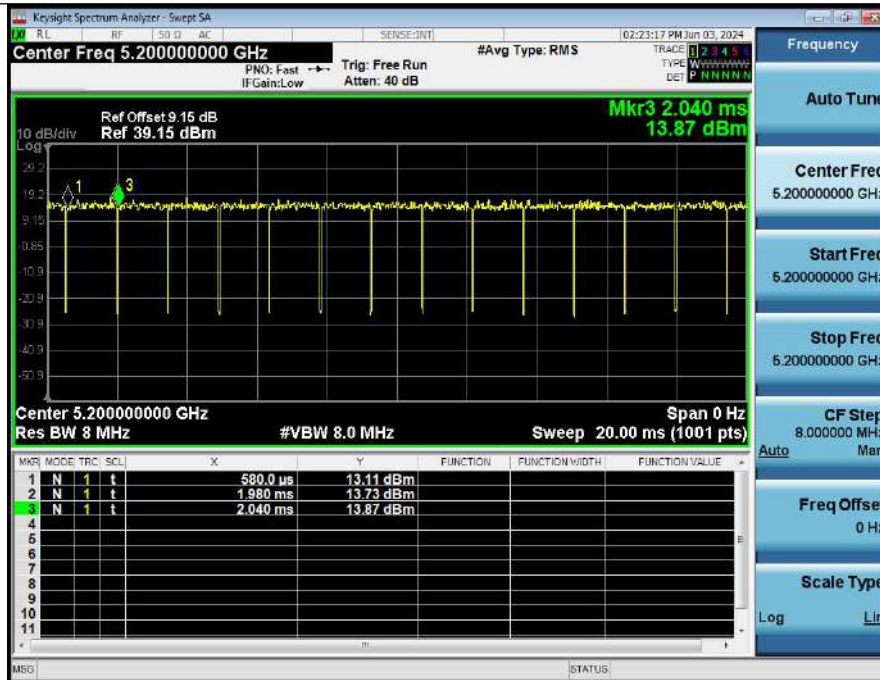


2. Duty Cycle

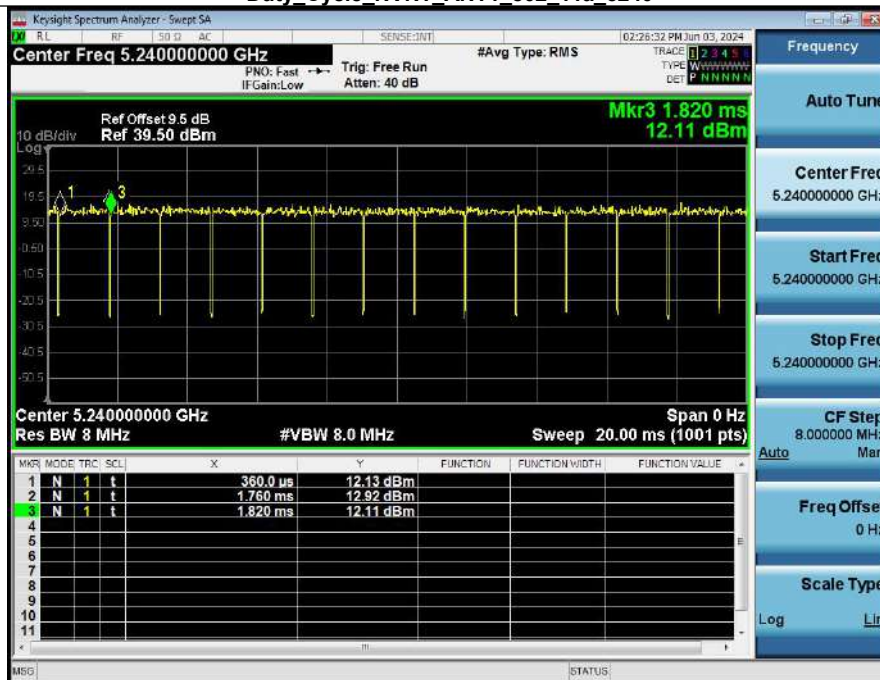
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	95.89	0.18
NVNT	ANT1	802.11a	5200.00	95.89	0.18
NVNT	ANT1	802.11a	5240.00	95.89	0.18
NVNT	ANT1	802.11n(HT20)	5180.00	96.72	0.14
NVNT	ANT1	802.11n(HT20)	5200.00	95.16	0.22
NVNT	ANT1	802.11n(HT20)	5240.00	95.16	0.22
NVNT	ANT1	802.11ac(VHT20)	5180.00	96.77	0.14
NVNT	ANT1	802.11ac(VHT20)	5200.00	95.16	0.22
NVNT	ANT1	802.11ac(VHT20)	5240.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	5190.00	90.63	0.43
NVNT	ANT1	802.11n(HT40)	5230.00	90.63	0.43
NVNT	ANT1	802.11ac(VHT40)	5190.00	90.63	0.43
NVNT	ANT1	802.11ac(VHT40)	5230.00	90.91	0.41
NVNT	ANT1	802.11ac(VHT80)	5210.00	82.35	0.84



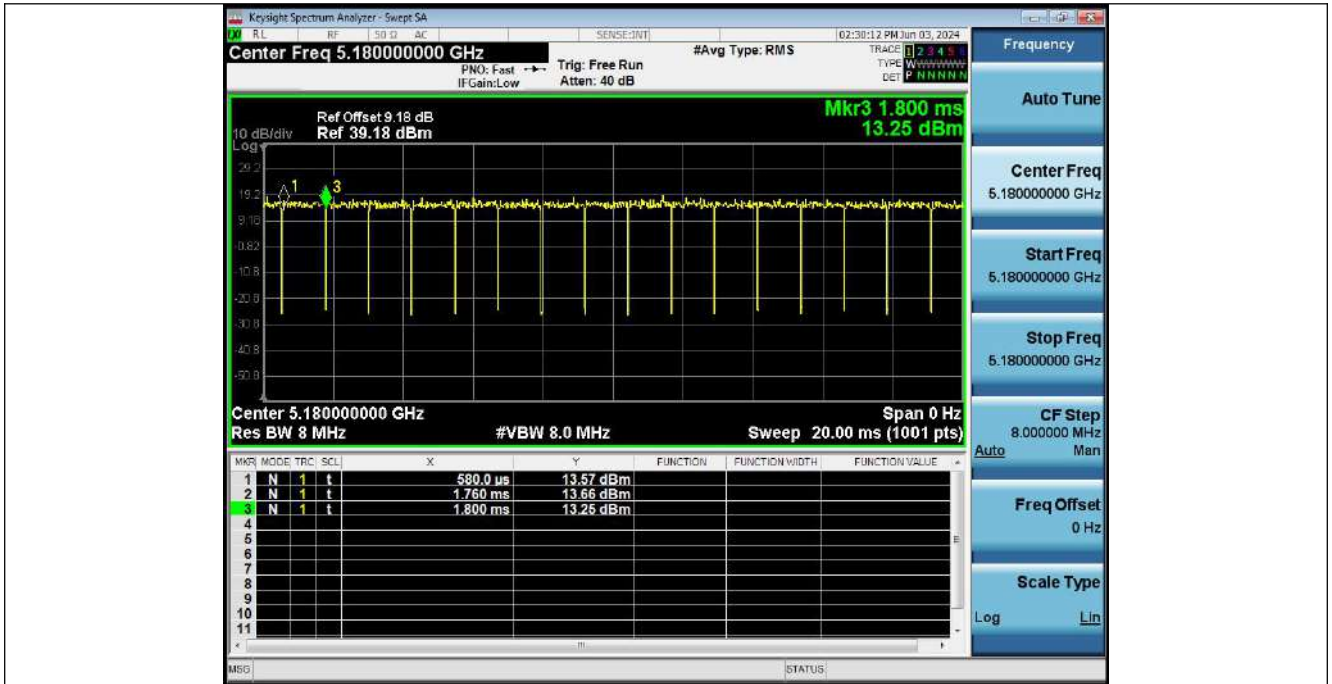
Duty Cycle_NVNT_ANT1_802_11a_5200



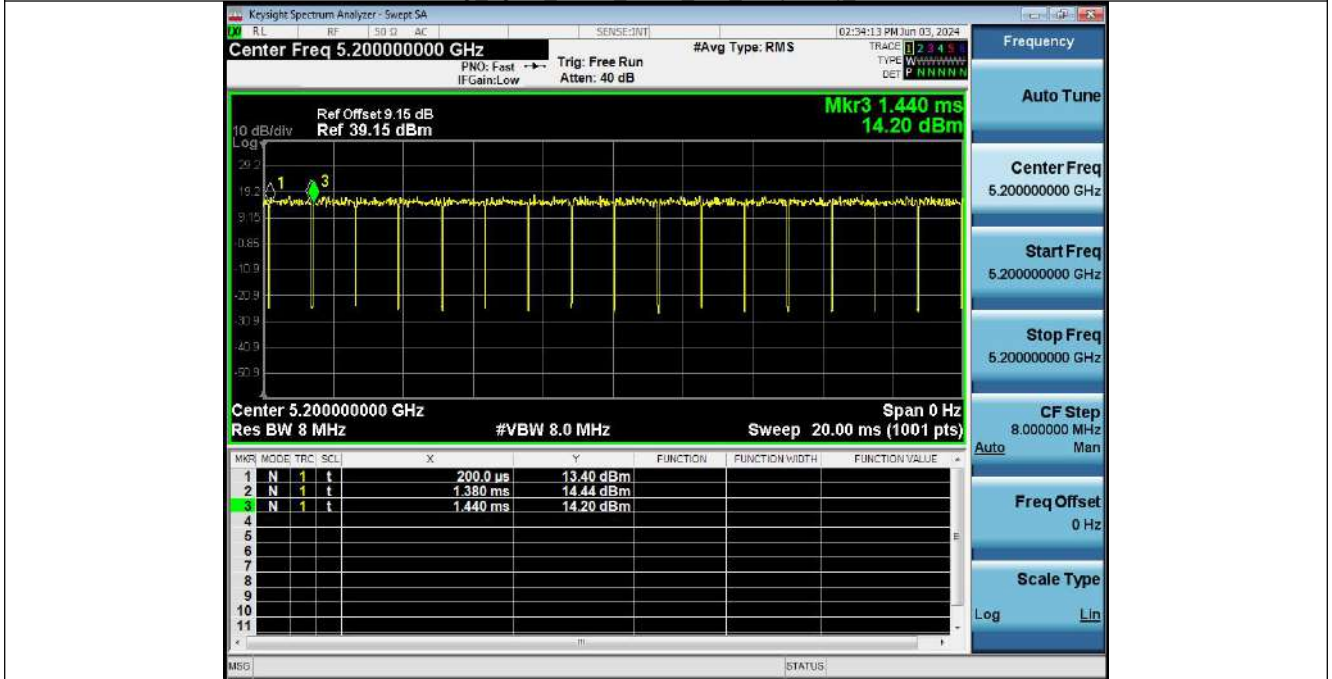
Duty_Cycle_NVNT_ANT1_802_11a_5240



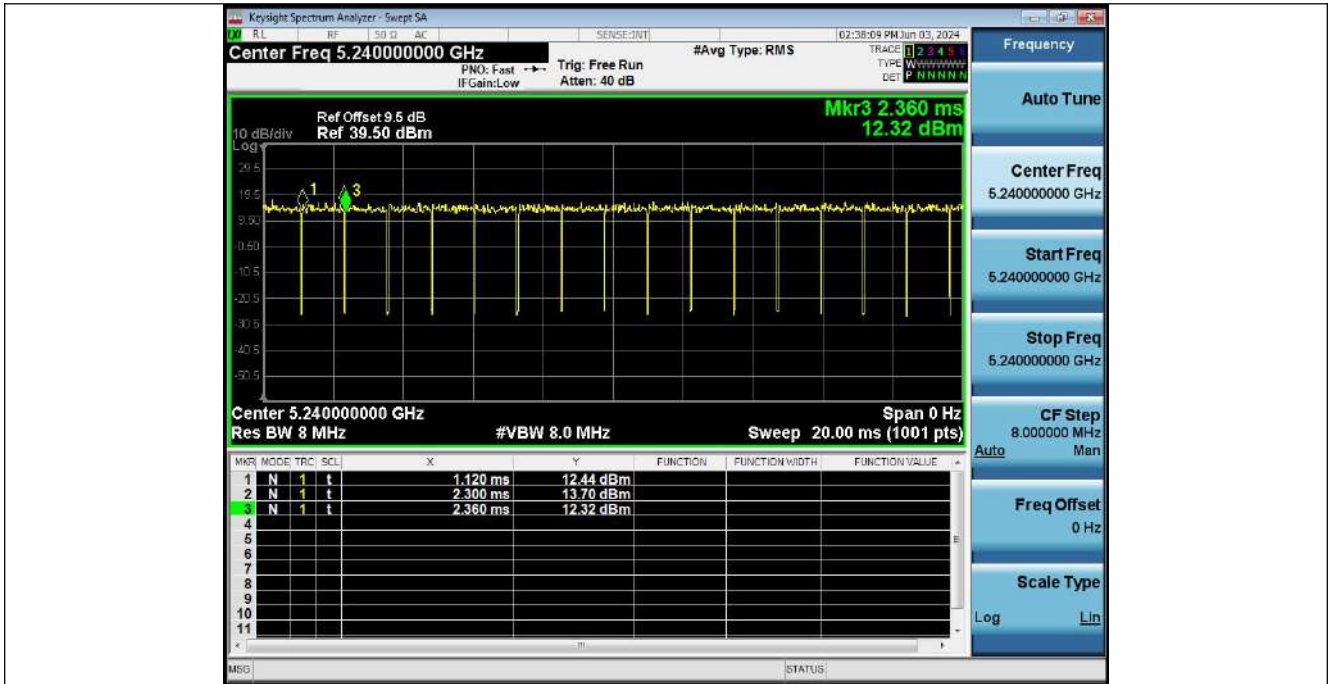
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



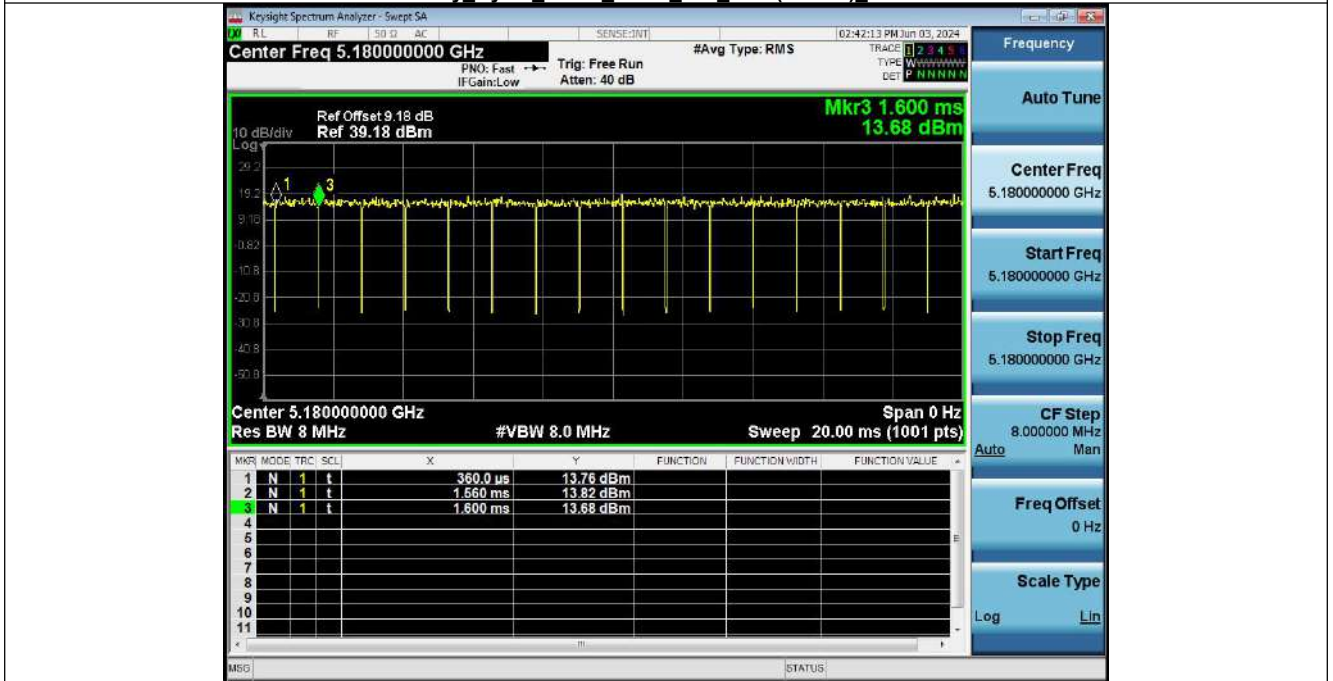
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5200



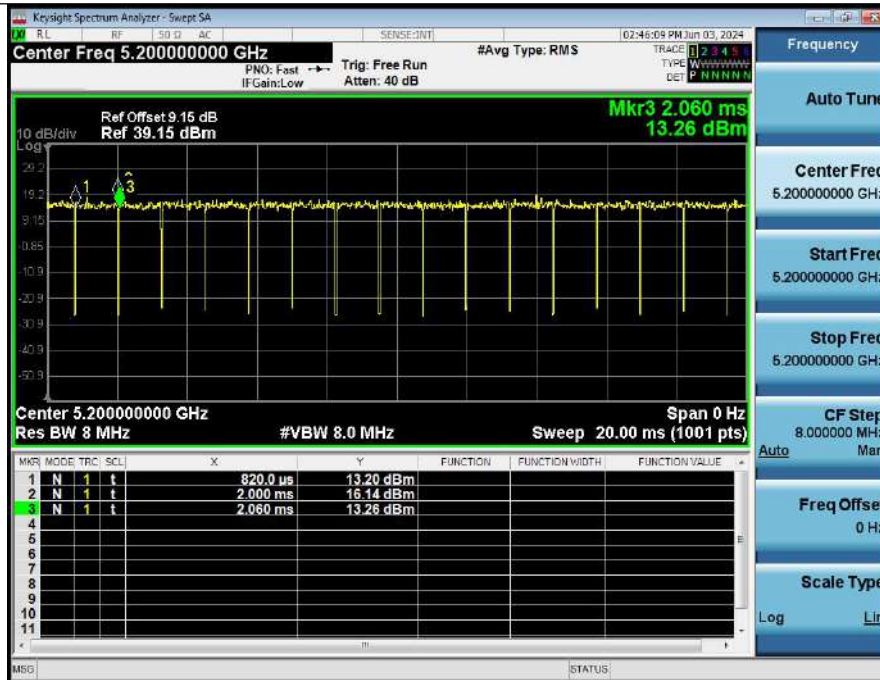
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5240



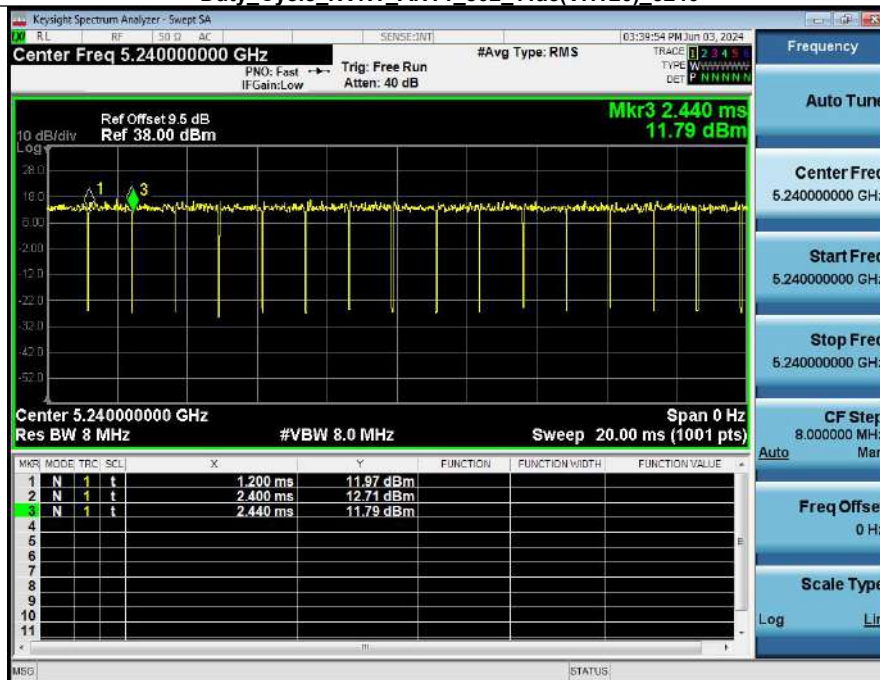
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5180



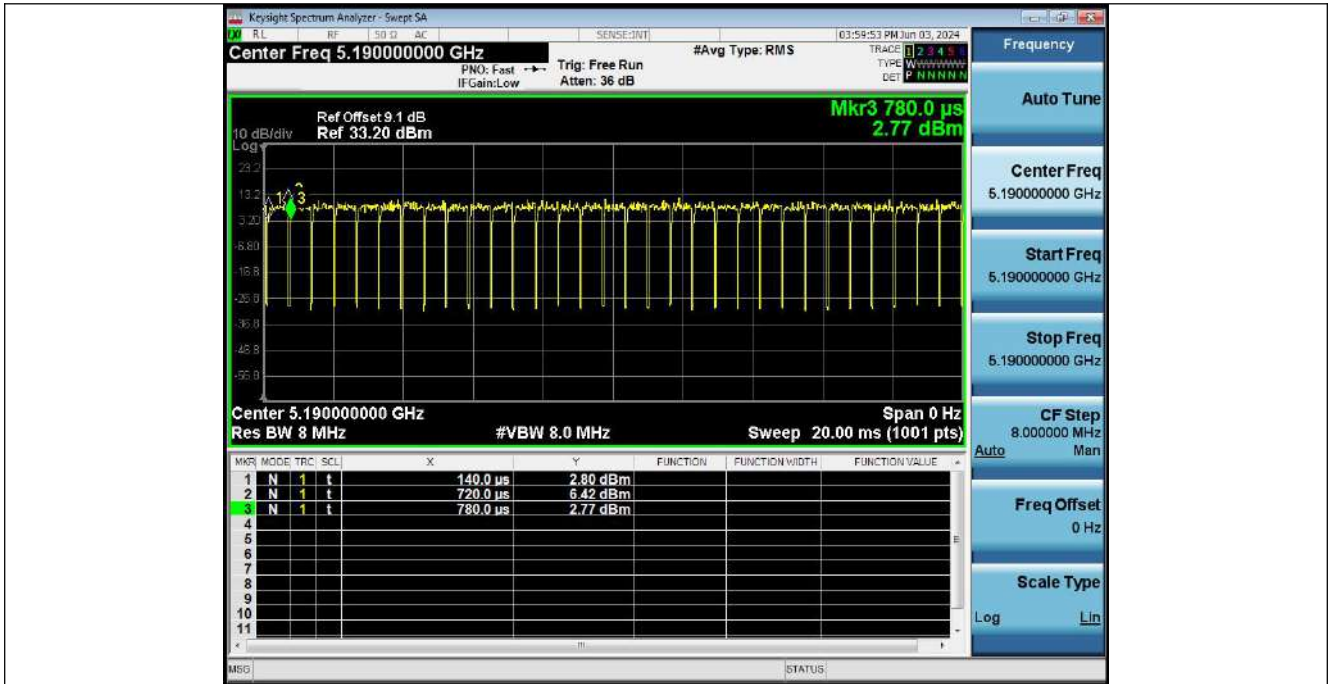
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5200



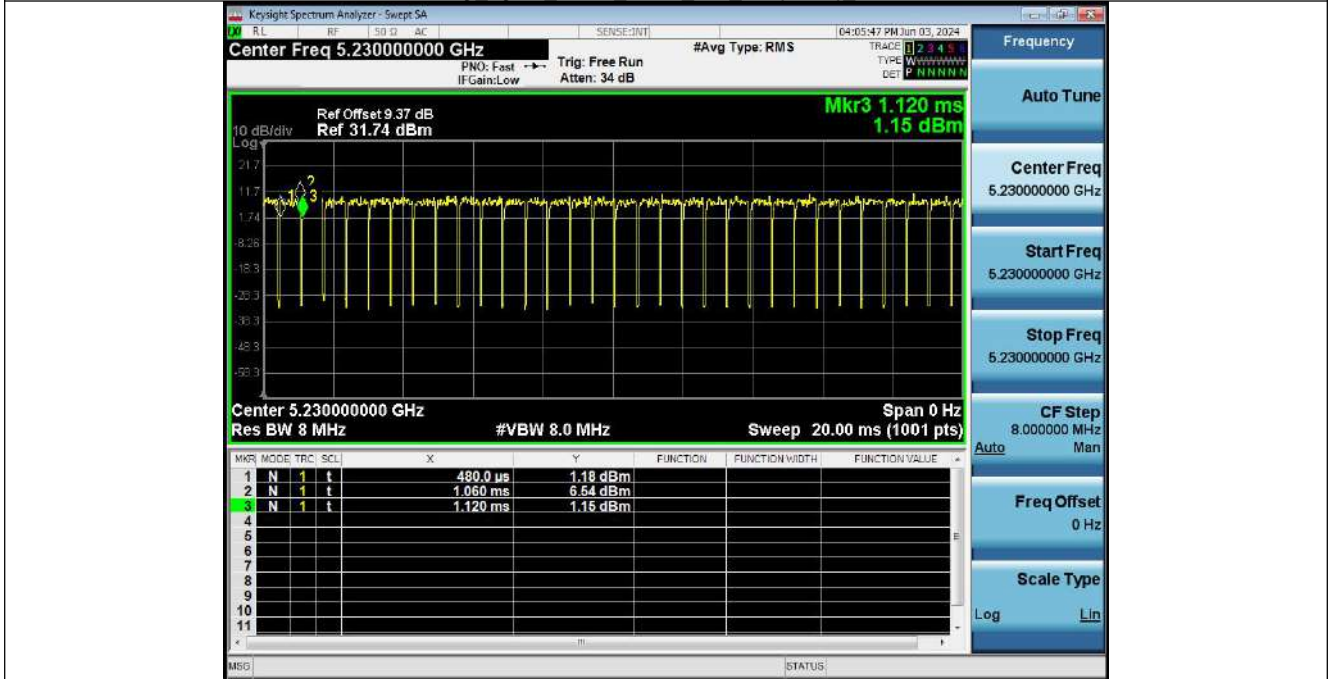
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5240



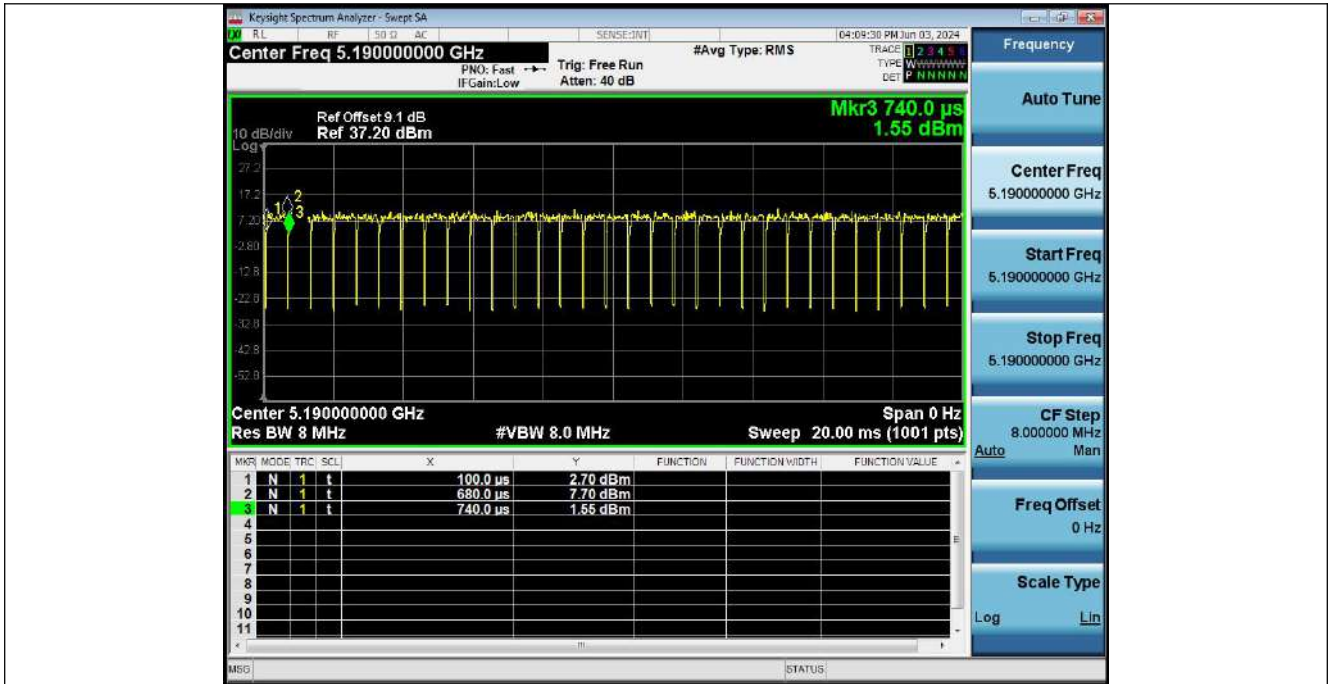
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5190



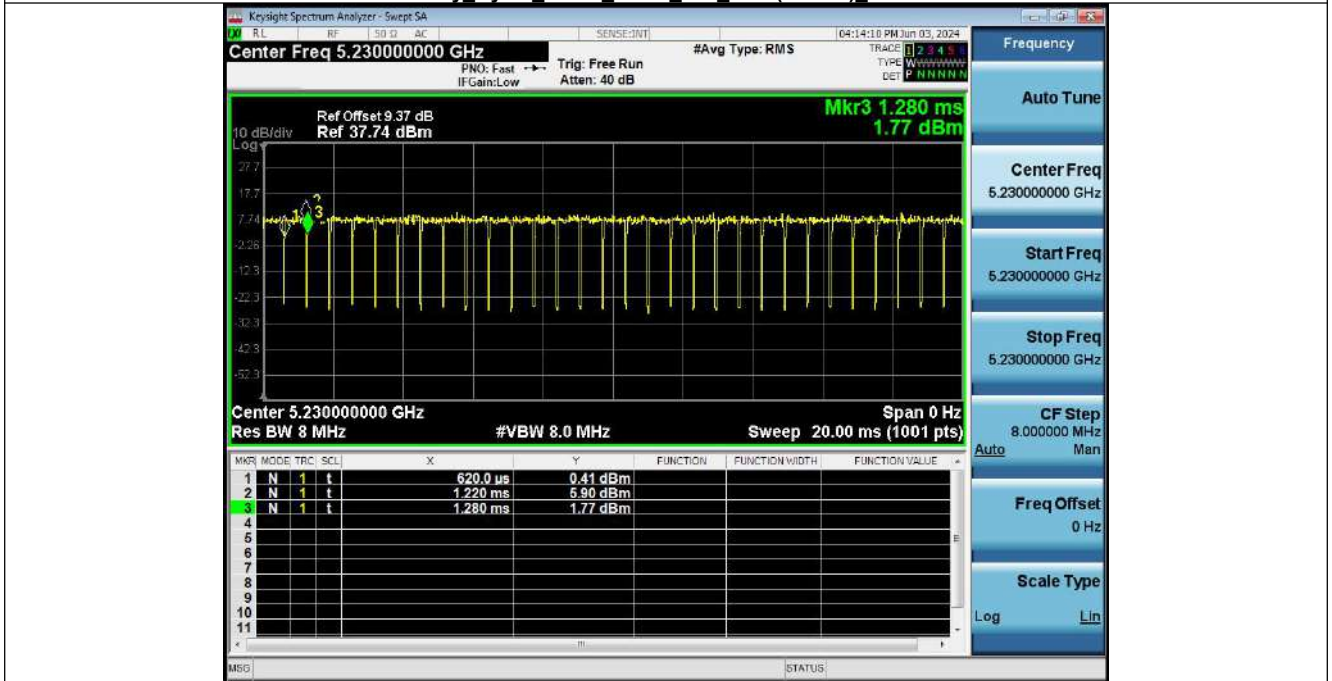
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5230



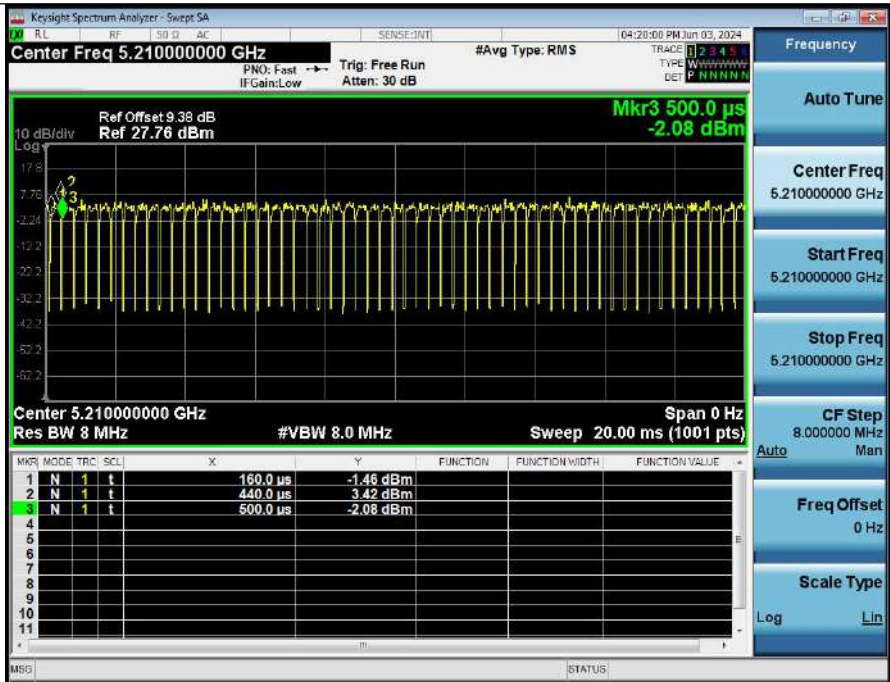
Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5190



Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5230



Duty_Cycle_NVNT_ANT1_802_11ac(VHT80)_5210



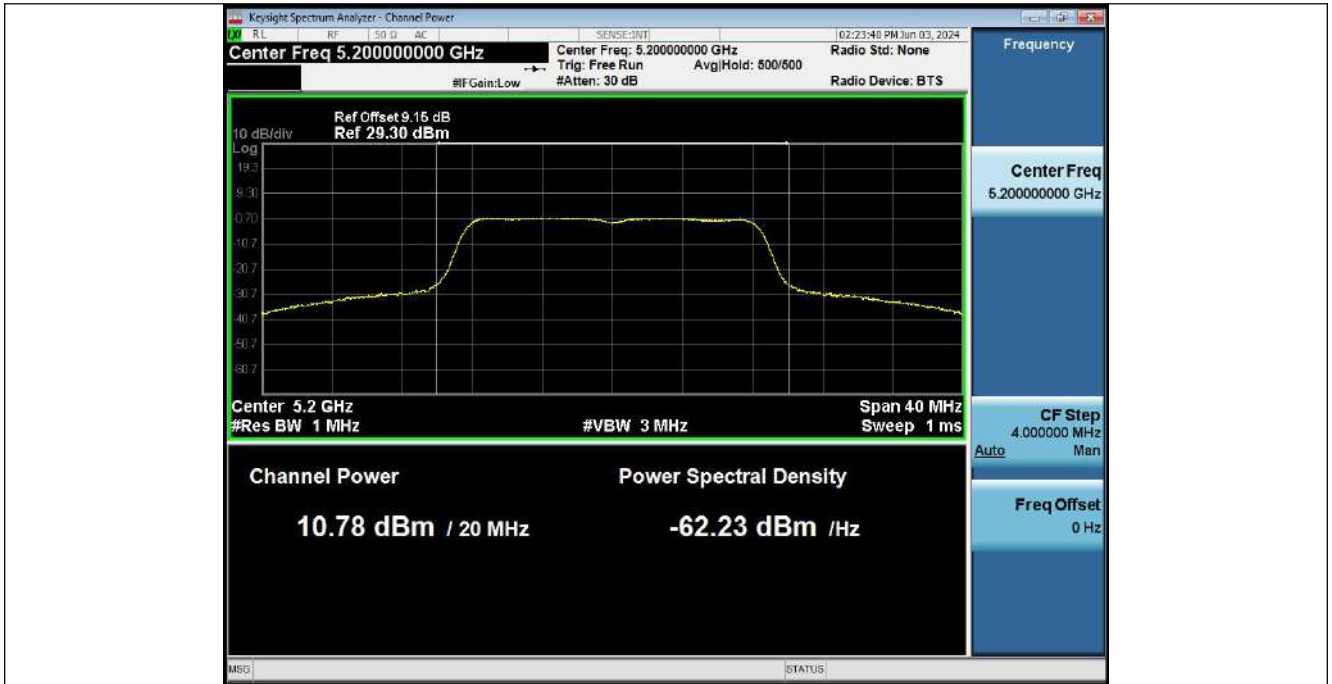
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	11.44	0.18	11.62	24	Pass
NVNT	ANT1	802.11a	5200.00	10.78	0.18	10.96	24	Pass
NVNT	ANT1	802.11a	5240.00	9.90	0.18	10.08	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	11.56	0.14	11.70	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	11.34	0.22	11.56	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	10.53	0.22	10.75	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	11.87	0.14	12.01	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	11.37	0.22	11.59	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	10.03	0.14	10.17	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	7.88	0.43	8.31	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	7.01	0.43	7.44	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	7.99	0.43	8.42	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	7.04	0.41	7.45	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5.87	0.84	6.71	24	Pass

Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5180_20M



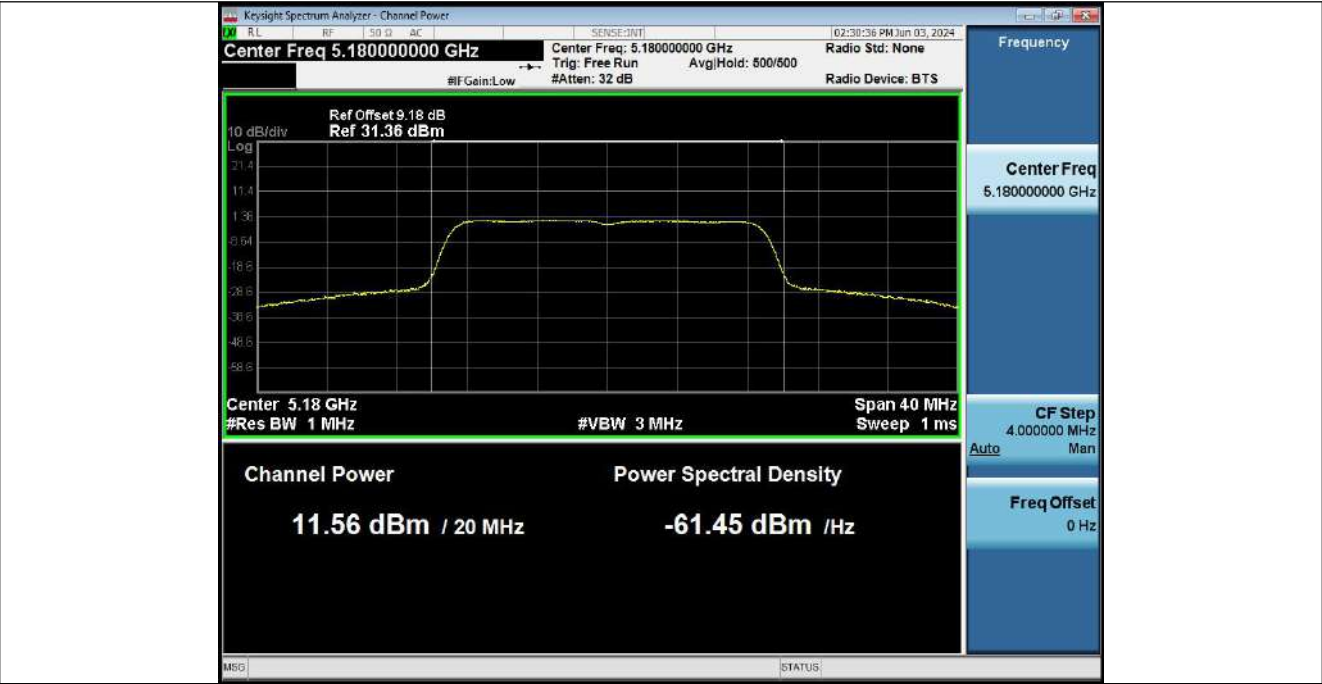
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5200_20M



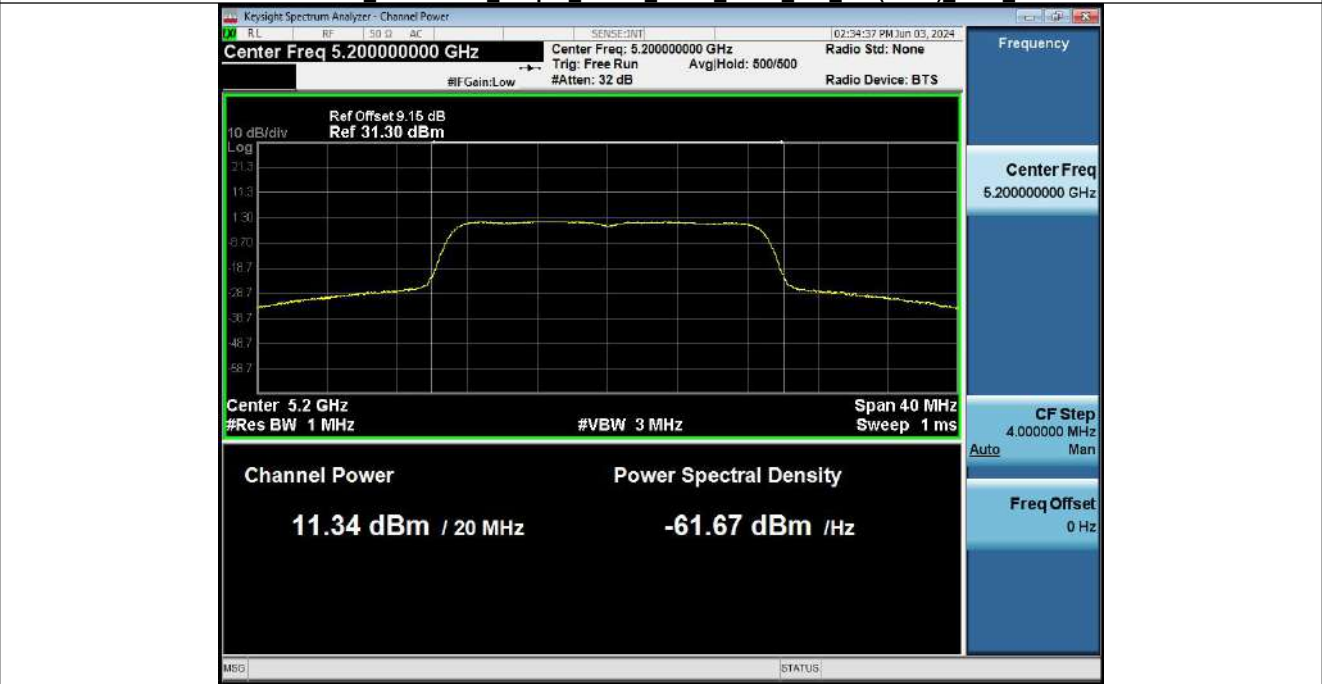
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5240_20M



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_11ac(VHT20)_5180_20M



Maximum Conducted Output Power_NVNT_ANT1_802_11ac(VHT20)_5200_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT20)_5240_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5190_40M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5230_40M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT40)_5190_40M



Maximum Conducted Output Power_NVNT_ANT1_802_11ac(VHT40)_5230_40M



Maximum Conducted Output Power_NVNT_ANT1_802_11ac(VHT80)_5210_80M



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	0.22	0.18	0.40	11	Pass
NVNT	ANT1	802.11a	5200.00	-0.26	0.18	-0.08	11	Pass
NVNT	ANT1	802.11a	5240.00	-1.25	0.18	-1.07	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	0.22	0.14	0.36	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	0.11	0.22	0.33	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-0.88	0.22	-0.66	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	0.43	0.14	0.57	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	0.00	0.22	0.22	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-1.21	0.14	-1.07	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-6.55	0.43	-6.13	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-7.35	0.43	-6.92	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-6.54	0.43	-6.11	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-7.43	0.41	-7.02	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-11.49	0.84	-10.65	11	Pass



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_11ac(VHT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power Spectral Density NVNT ANT1 802 11n(HT40) 5190



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



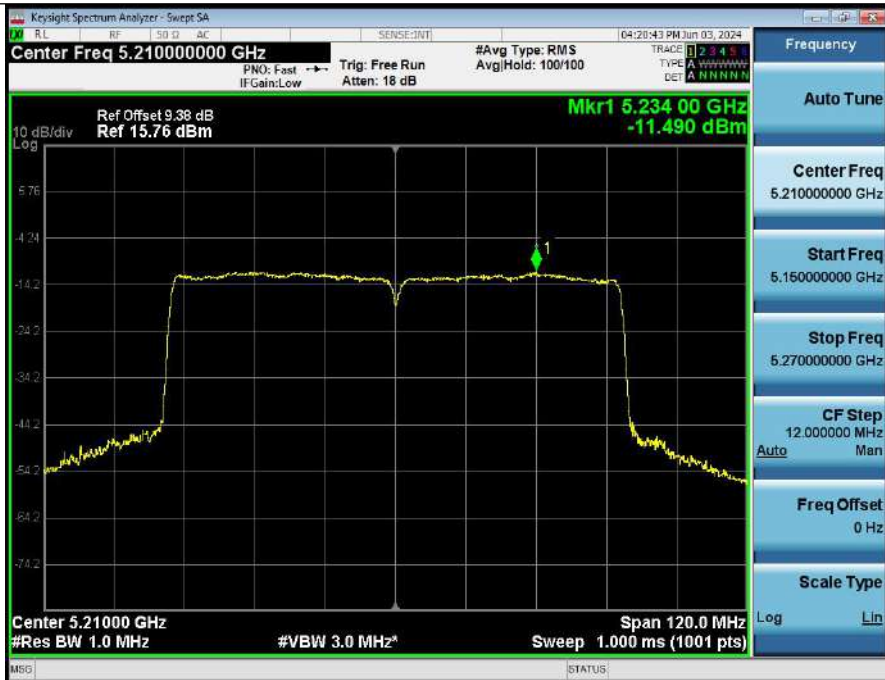
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210



5. Bandedge

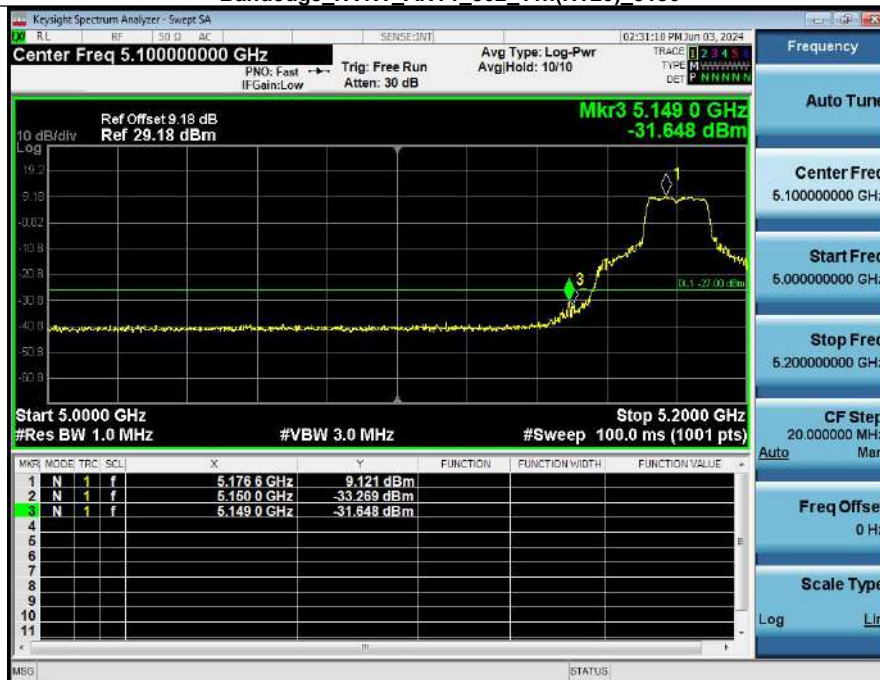
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5148.60	-37.09	-27	Pass
NVNT	ANT1	802.11a	5240.00	5385.60	-40.41	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5149.00	-31.65	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5415.40	-39.61	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5148.40	-31.31	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5409.00	-40.07	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5147.84	-30.88	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5385.56	-40.46	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5147.63	-31.89	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5417.48	-39.93	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5147.00	-36.27	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5354.90	-40.90	-27	Pass

Remark:Antenna gain is covered in the test.





Bandedge_NVNT_ANT1_802_11n(HT20)_5180



Bandedge_NVNT_ANT1_802_11n(HT20)_5240



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5180



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



Bandedge_NVNT_ANT1_802_11n(HT40)_5190



Bandedge_NVNT_ANT1_802_11n(HT40)_5230



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5190



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



Bandedge_NVNT_ANT1_802_11ac(VHT80)_5210



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	-29.19	-27	Pass
NVNT	ANT1	802.11a	5200.00	25070.62	-29.44	-27	Pass
NVNT	ANT1	802.11a	5240.00	24938.27	-29.63	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	25202.97	-30.10	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	24964.74	-30.26	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	24461.81	-29.54	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25044.15	-30.12	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	24991.21	-29.81	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	24938.27	-29.98	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	26182.36	-29.74	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	25600.02	-30.07	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	718.22	-27.00	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	718.22	-27.11	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	718.22	-28.09	-27	Pass



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



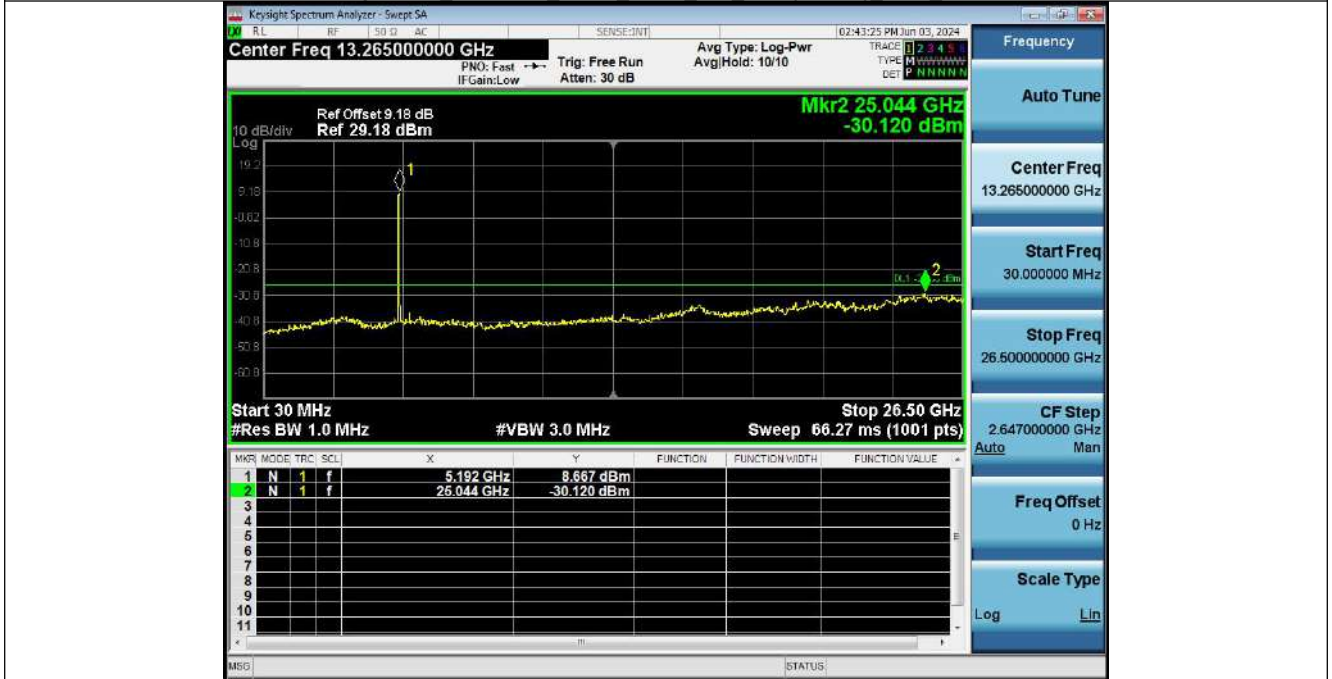
Spurious Emission_NVNT_ANT1_802_11n(HT20)_5200_20M



Spurious Emission_NVNT_ANT1_802_11n(HT20)_5240_20M



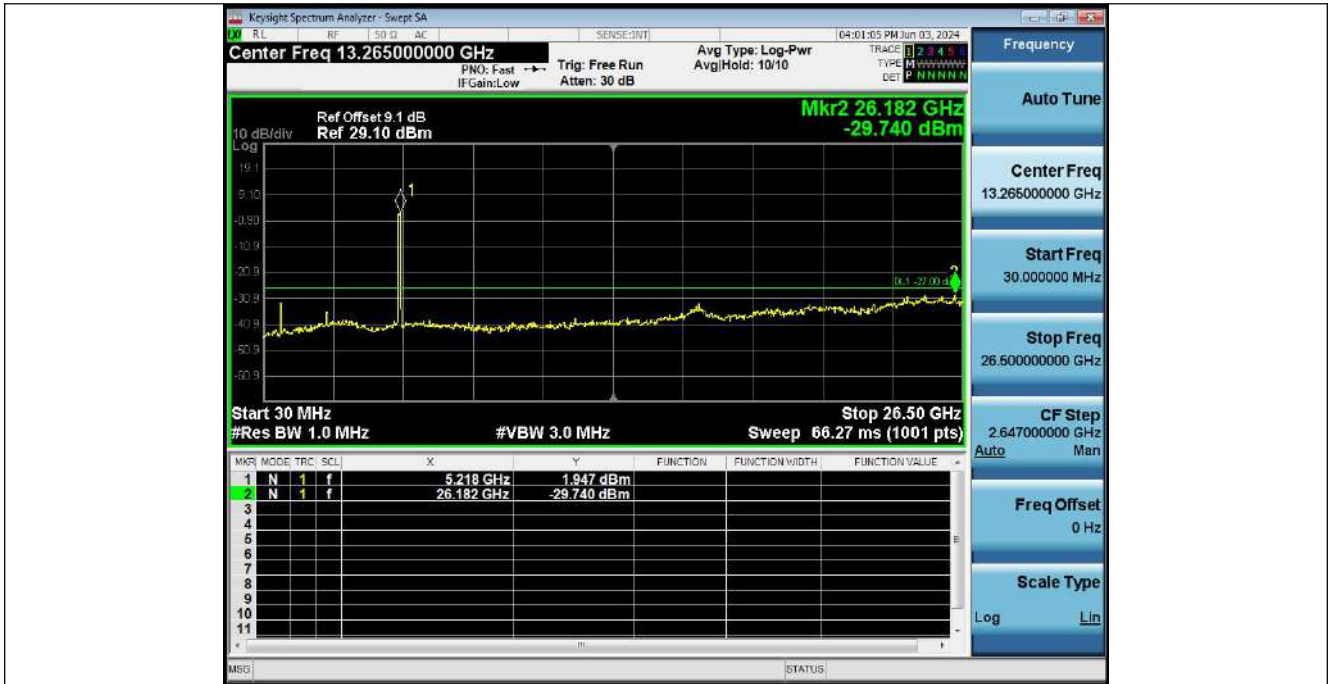
Spurious Emission NVNT_ANT1_802_11ac(VHT20)_5180_20M



Spurious Emission NVNT_ANT1_802_11ac(VHT20)_5200_20M



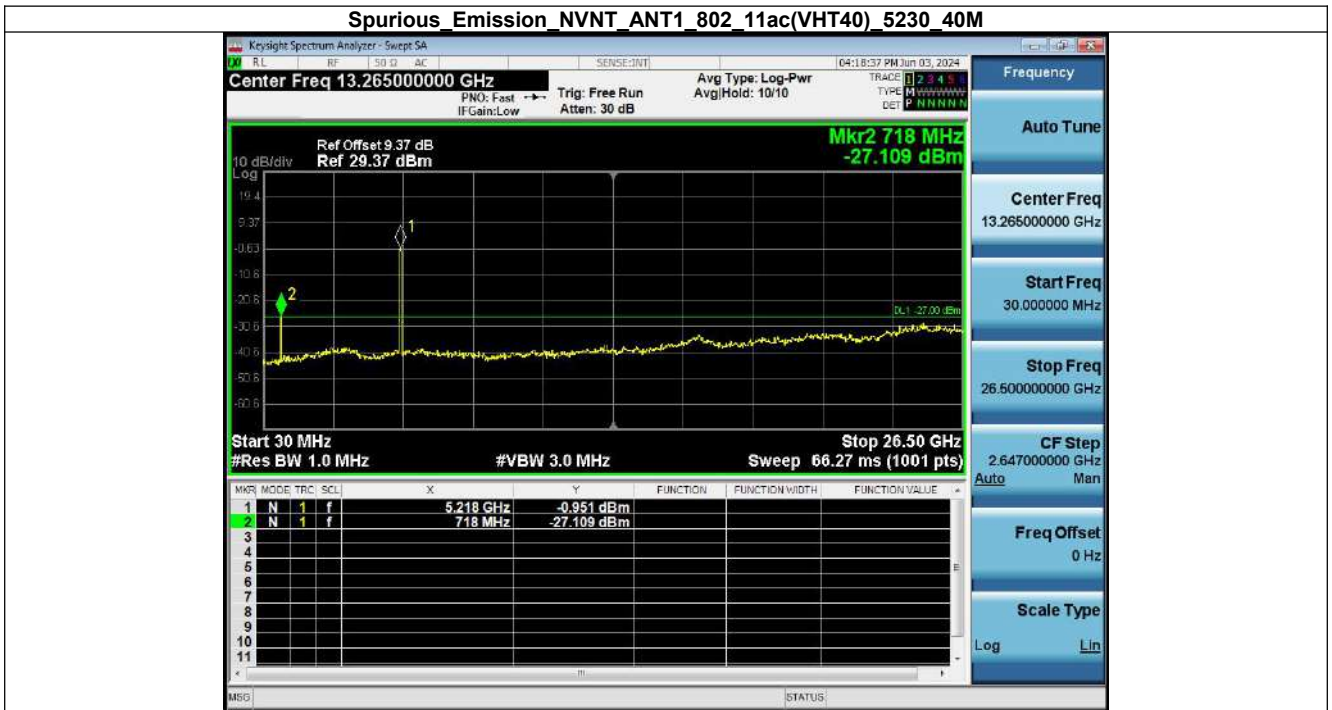
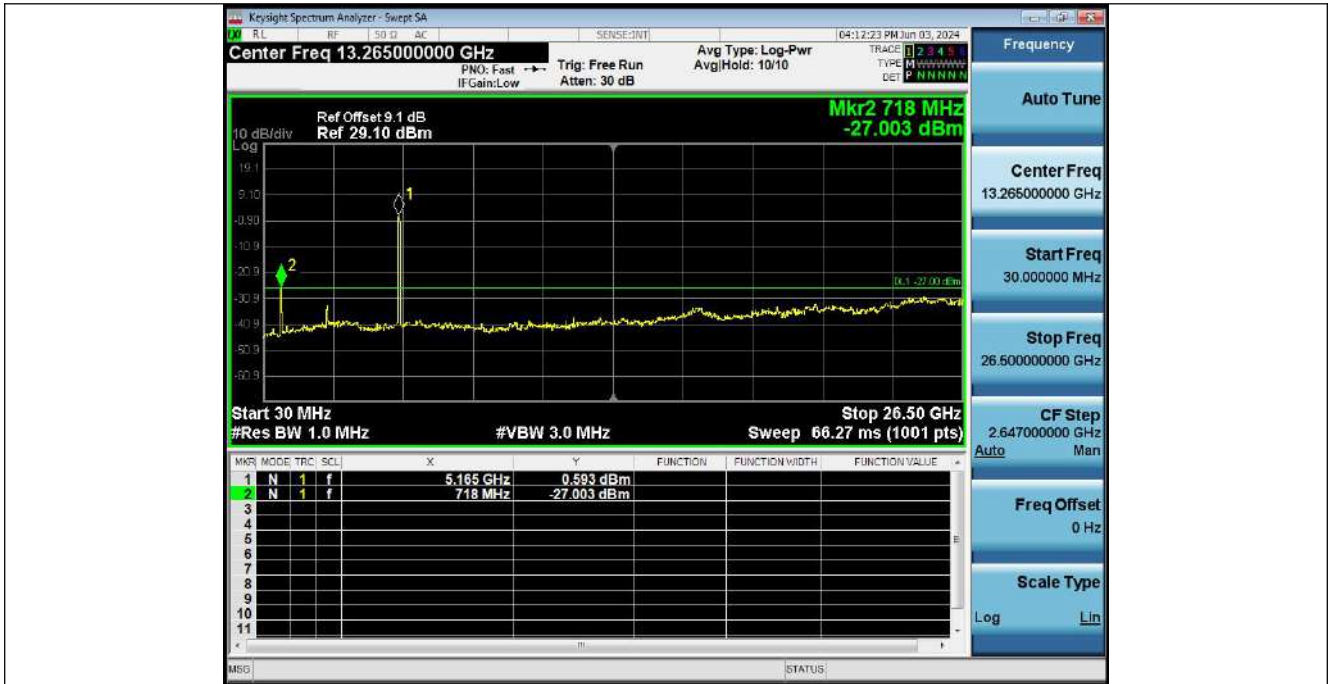
Spurious Emission NVNT_ANT1_802_11n(HT40)_5190_40M



Spurious Emission_NVNT_ANT1_802_11n(HT40)_5230_40M



Spurious Emission_NVNT_ANT1_802_11ac(VHT40)_5190_40M



Spurious Emission NVNT ANT1 802_11ac(VHT80) 5210 80M

