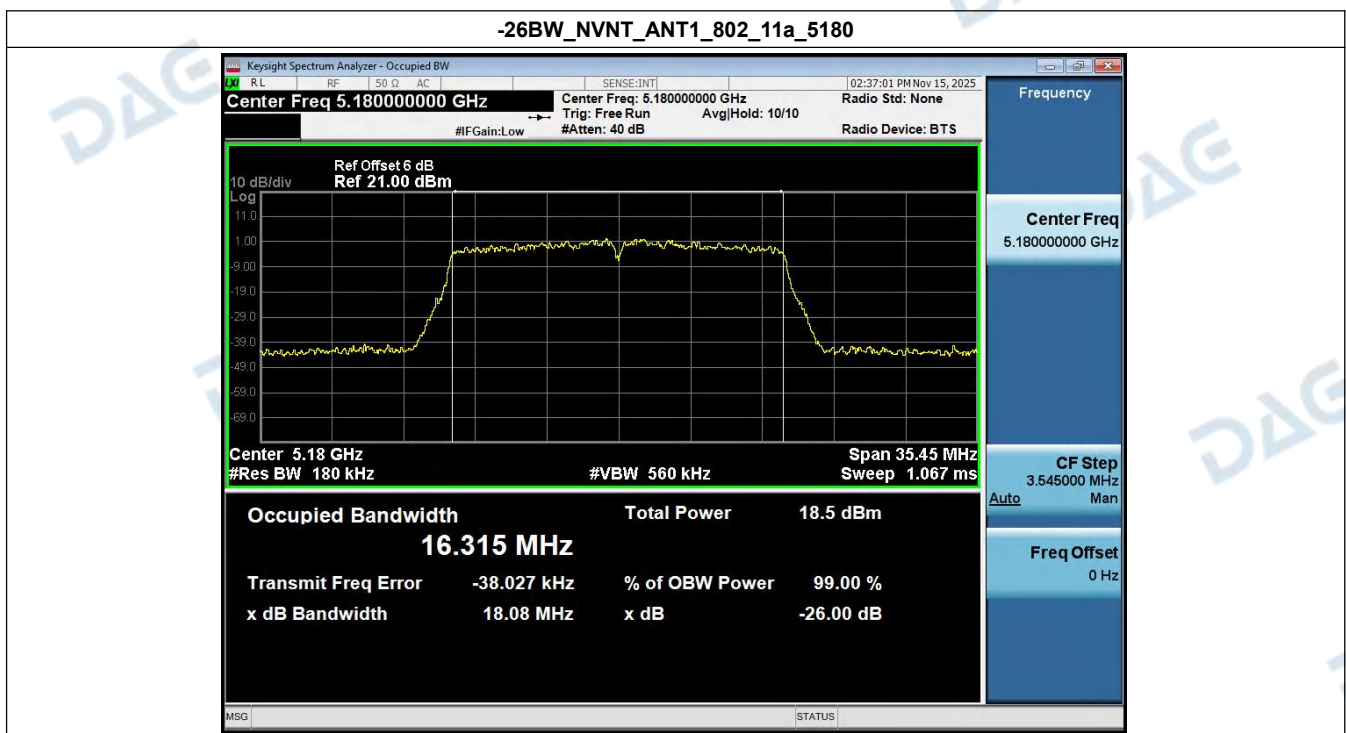


Appendix 5.2G

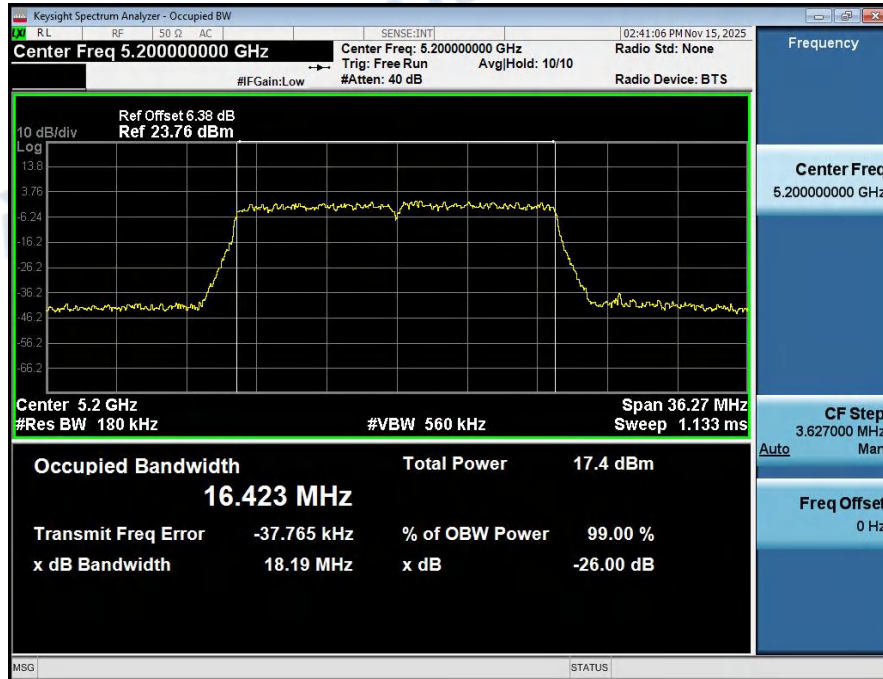
HT250613015--M-055--FCC ID--5.2GWIFI
FCC_5.2G_WIFI (Part15.407) Test Data

1. -26dB Emission Bandwidth

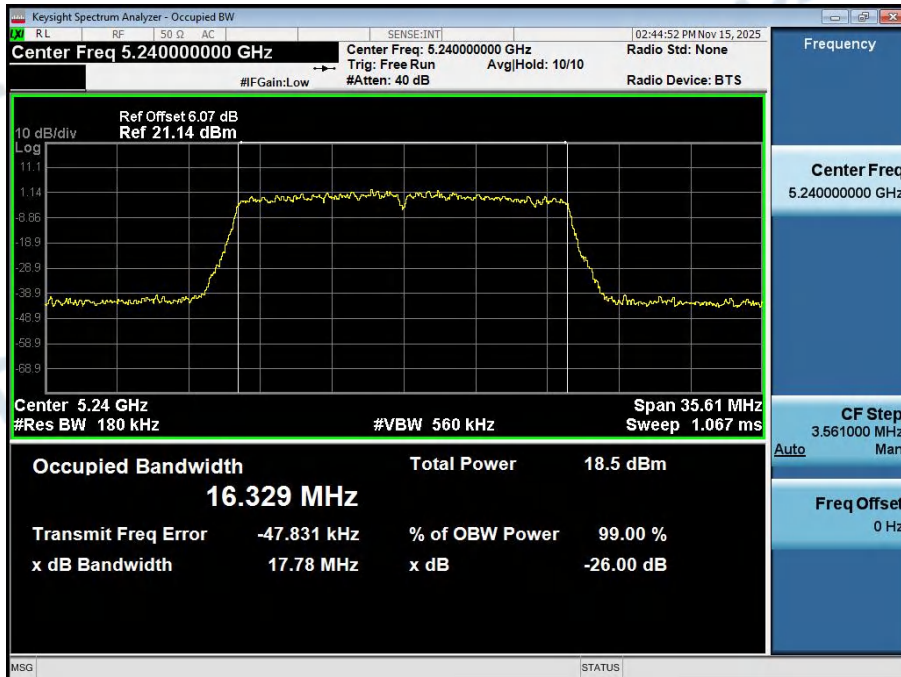
Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	18.08	16.29
NVNT	ANT1	802.11a	5200.00	18.19	16.37
NVNT	ANT1	802.11a	5240.00	17.78	16.30
NVNT	ANT1	802.11n(HT20)	5180.00	18.82	17.43
NVNT	ANT1	802.11n(HT20)	5200.00	19.10	17.55
NVNT	ANT1	802.11n(HT20)	5240.00	18.77	17.40
NVNT	ANT1	802.11ac(VHT20)	5180.00	18.72	17.53
NVNT	ANT1	802.11ac(VHT20)	5200.00	18.87	17.64
NVNT	ANT1	802.11ac(VHT20)	5240.00	18.79	17.56
NVNT	ANT1	802.11n(HT40)	5190.00	38.23	35.80
NVNT	ANT1	802.11n(HT40)	5230.00	38.25	35.72
NVNT	ANT1	802.11ac(VHT40)	5190.00	38.52	36.23
NVNT	ANT1	802.11ac(VHT40)	5230.00	38.52	36.14
NVNT	ANT1	802.11ac(VHT80)	5210.00	78.86	75.77
NVNT	ANT1	802.11ax(HE80)	5210.00	80.09	77.34



-26BW_NVNT_ANT1_802_11a_5200



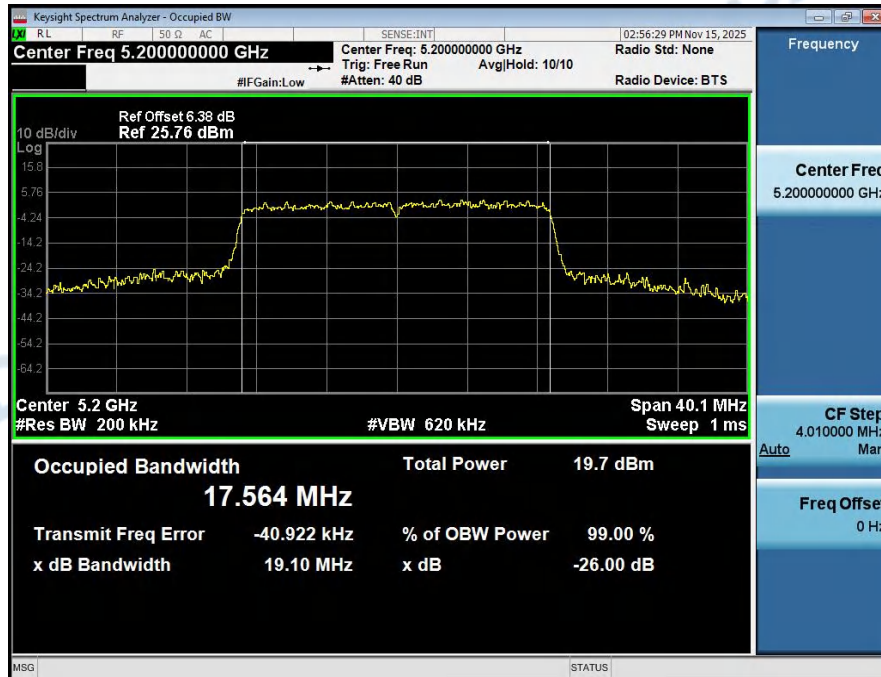
-26BW_NVNT_ANT1_802_11a_5240



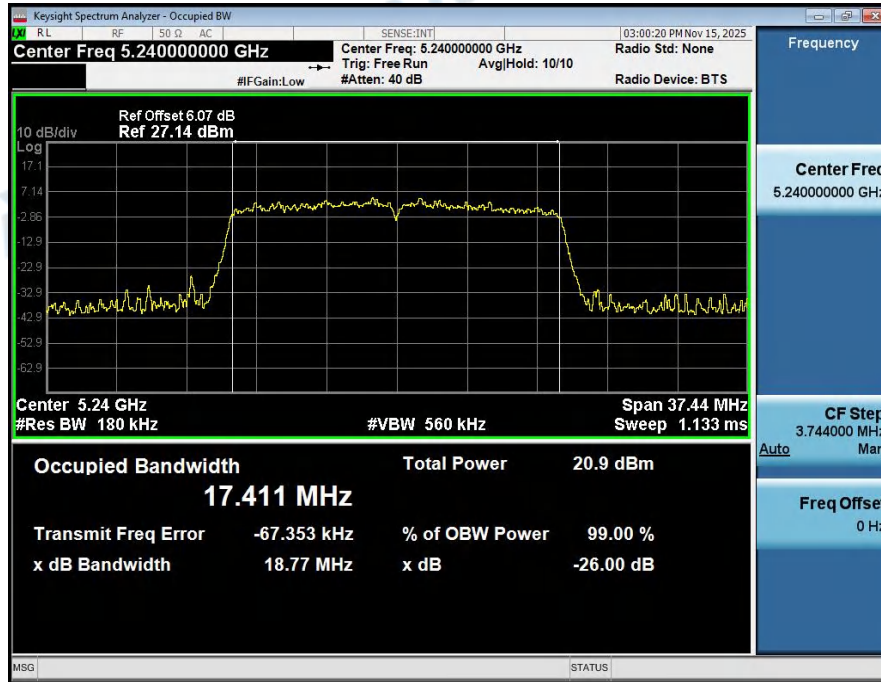
-26BW_NVNT_ANT1_802_11n(HT20)_5180



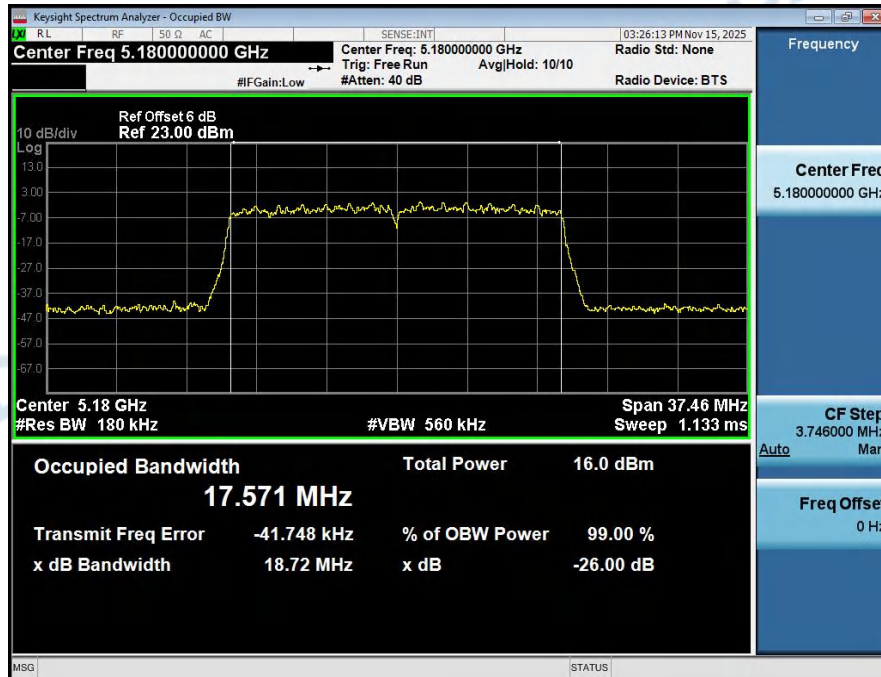
-26BW_NVNT_ANT1_802_11n(HT20)_5200



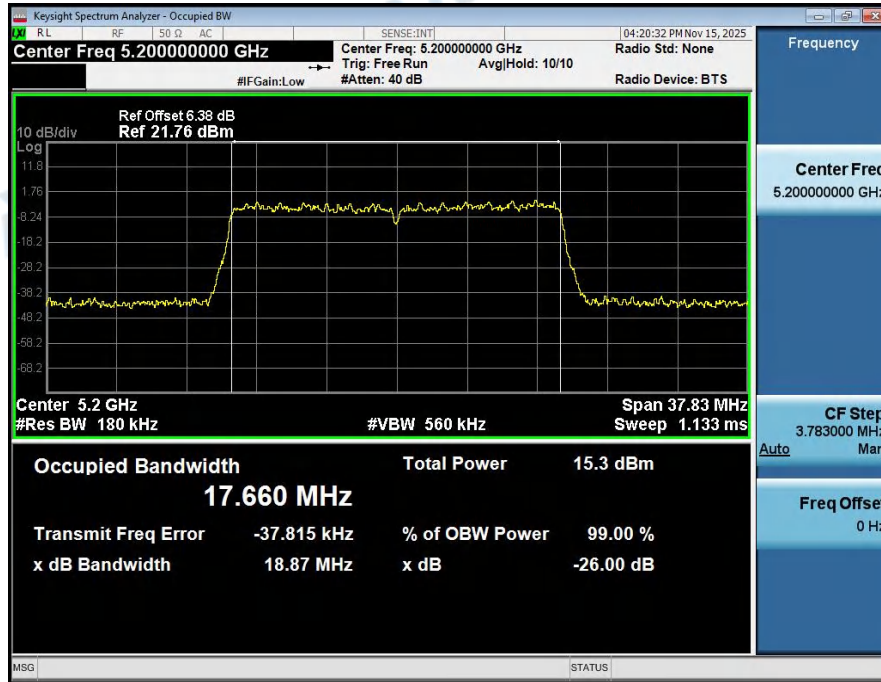
-26BW_NVNT_ANT1_802_11n(HT20)_5240



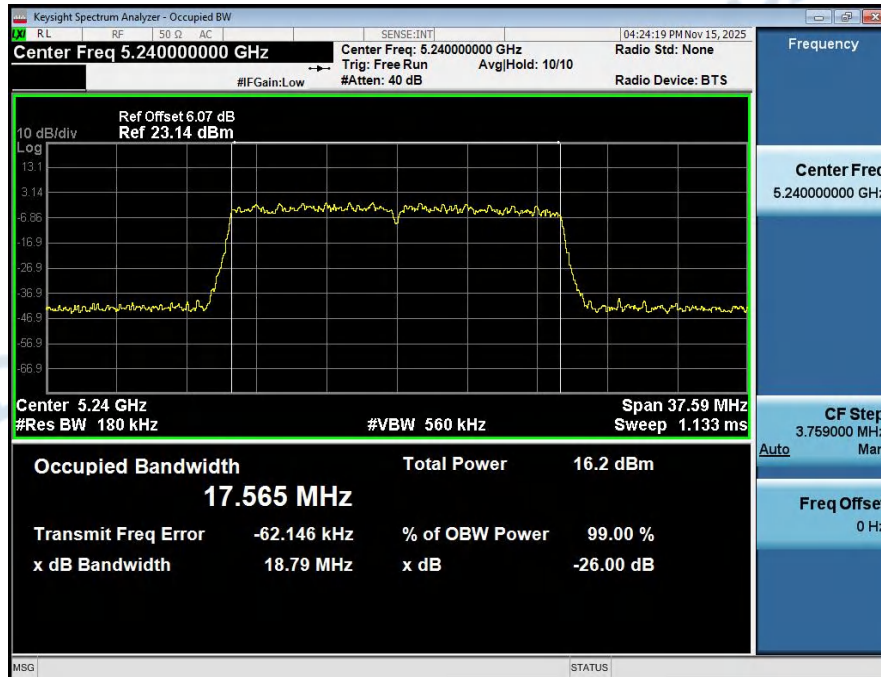
-26BW_NVNT_ANT1_802_11ac(VHT20)_5180



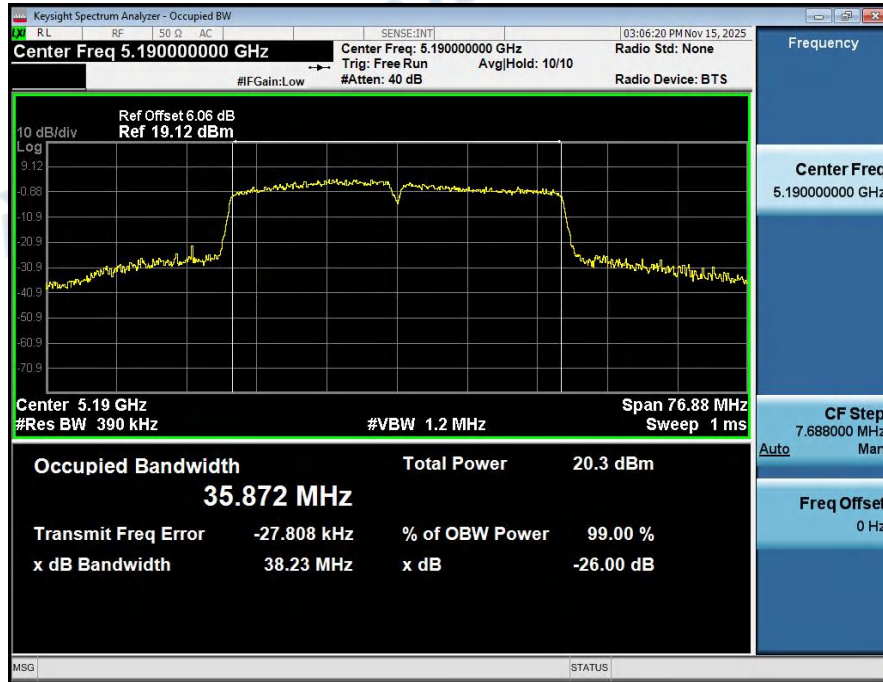
-26BW_NVNT_ANT1_802_11ac(VHT20)_5200



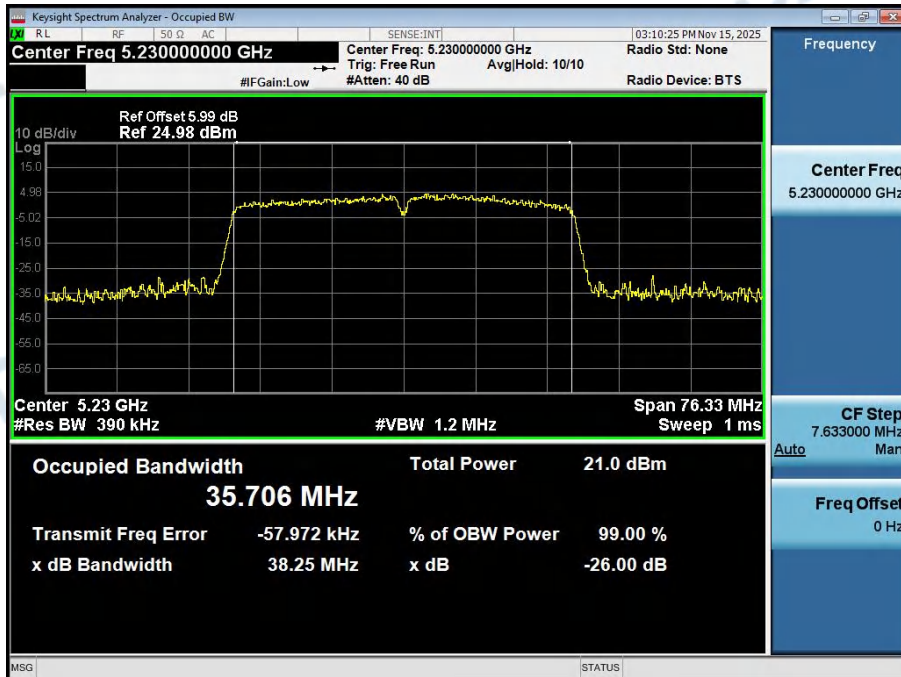
-26BW_NVNT_ANT1_802_11ac(VHT20)_5240



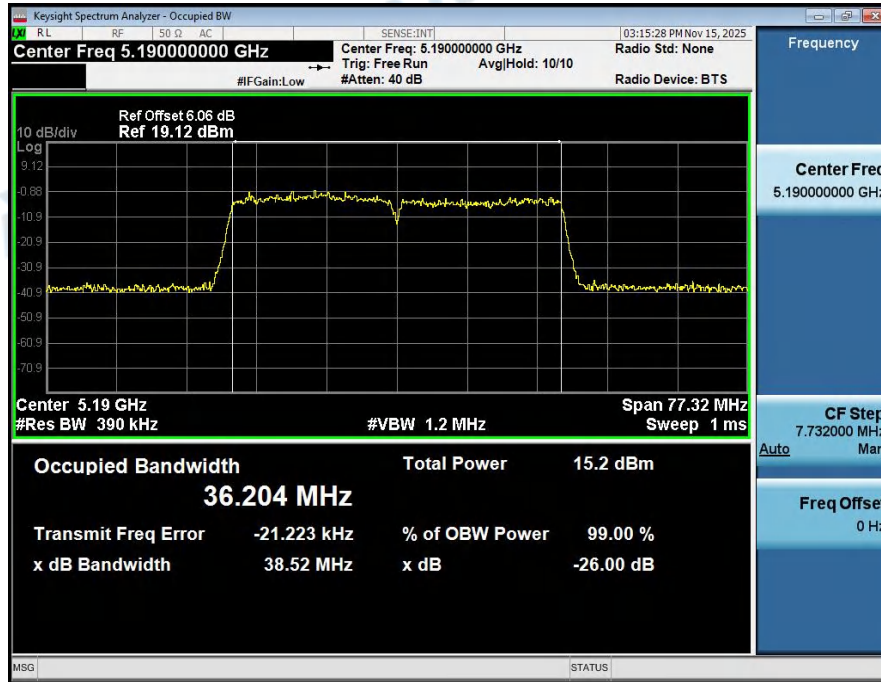
-26BW_NVNT_ANT1_802_11n(HT40)_5190



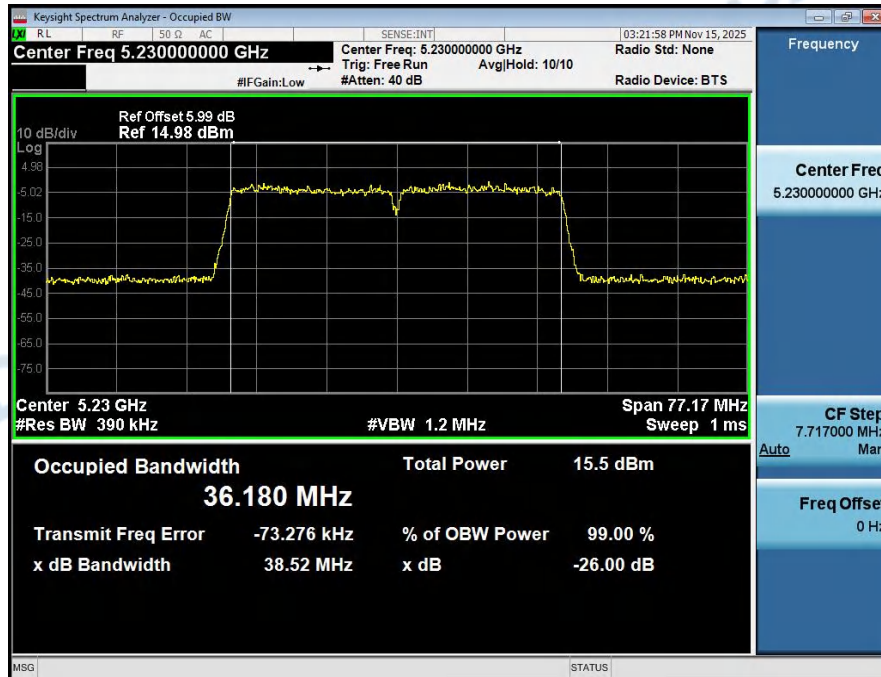
-26BW_NVNT_ANT1_802_11n(HT40)_5230



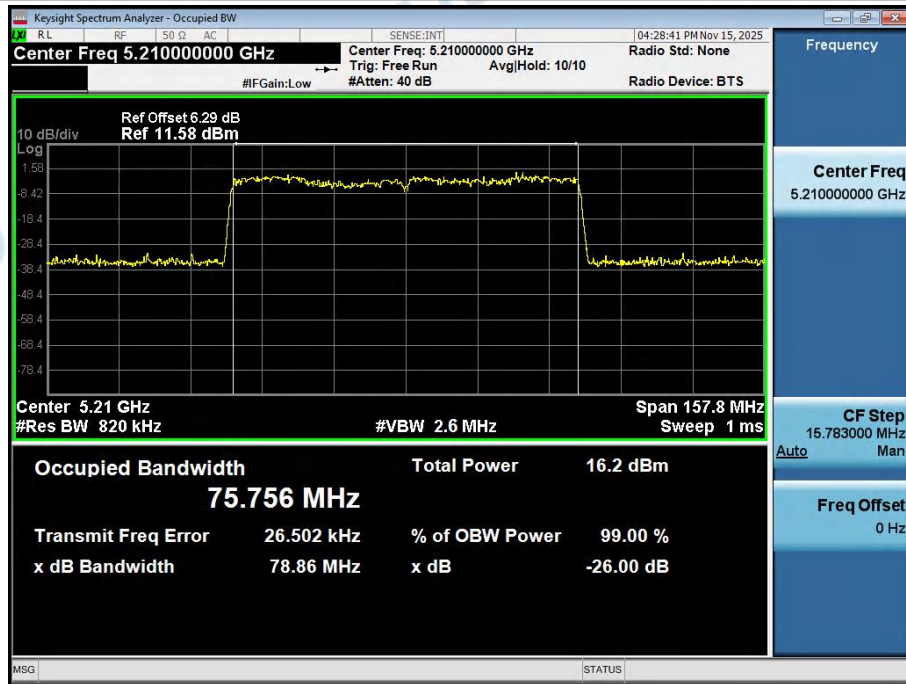
-26BW_NVNT_ANT1_802_11ac(VHT40)_5190



-26BW_NVNT_ANT1_802_11ac(VHT40)_5230



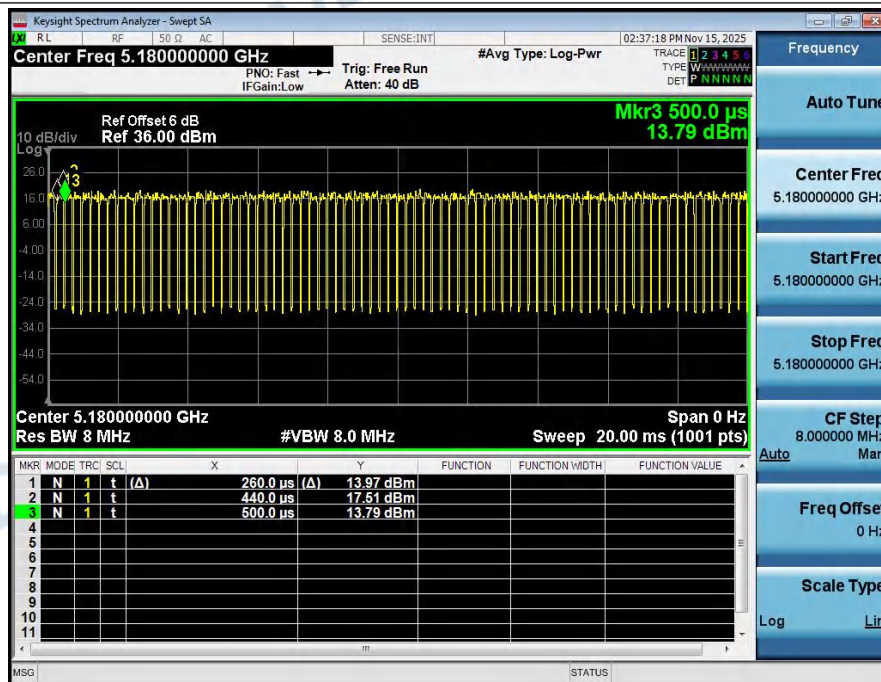
-26BW_NVNT_ANT1_802_11ac(VHT80)_5210



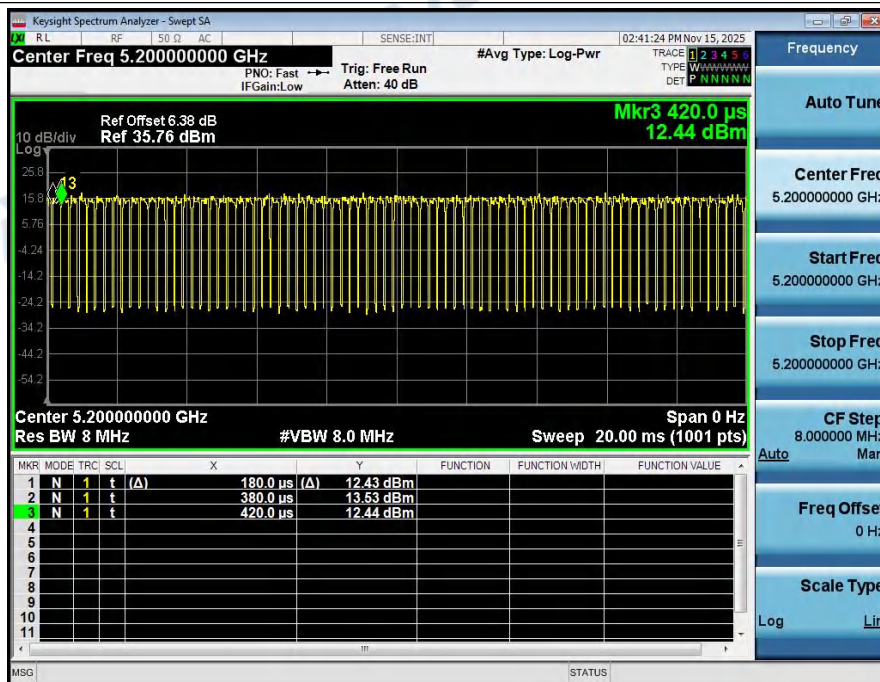
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	75.00	1.25
NVNT	ANT1	802.11a	5200.00	83.33	0.79
NVNT	ANT1	802.11a	5240.00	76.92	1.14
NVNT	ANT1	802.11n(HT20)	5180.00	95.59	0.20
NVNT	ANT1	802.11n(HT20)	5200.00	97.06	0.13
NVNT	ANT1	802.11n(HT20)	5240.00	95.65	0.19
NVNT	ANT1	802.11ac(VHT20)	5180.00	62.50	2.04
NVNT	ANT1	802.11ac(VHT20)	5200.00	62.50	2.04
NVNT	ANT1	802.11ac(VHT20)	5240.00	71.43	1.46
NVNT	ANT1	802.11ax(HE20)	5240.00	62.50	2.04
NVNT	ANT1	802.11n(HT40)	5190.00	91.43	0.39
NVNT	ANT1	802.11n(HT40)	5230.00	91.43	0.39
NVNT	ANT1	802.11ac(VHT40)	5190.00	66.67	1.76
NVNT	ANT1	802.11ac(VHT40)	5230.00	50.00	3.01
NVNT	ANT1	802.11ac(VHT80)	5210.00	60.00	2.22

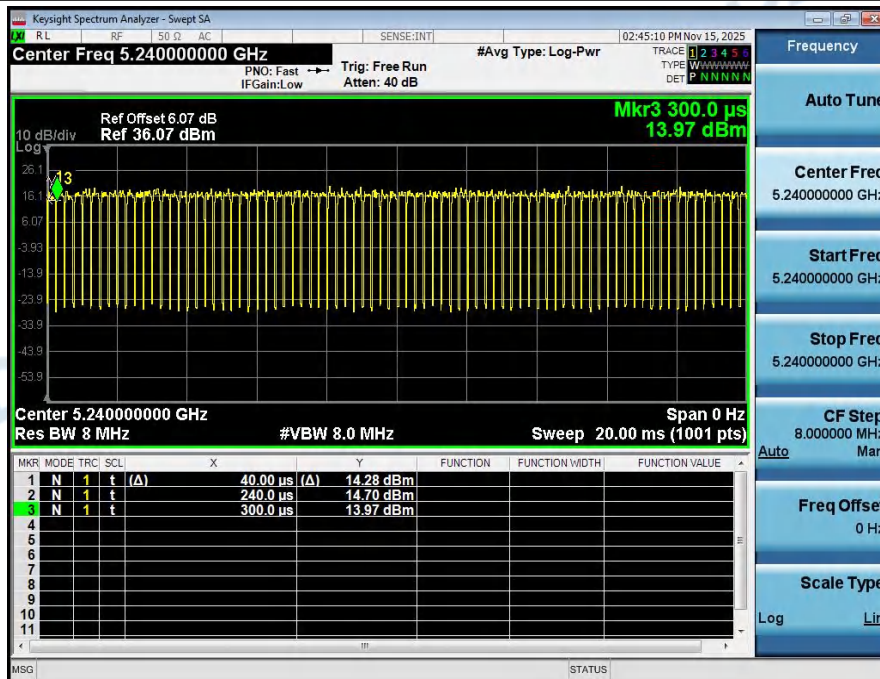
Duty_Cycle_NVNT_ANT1_802_11a_5180



Duty_Cycle_NVNT_ANT1_802_11a_5200



Duty_Cycle_NVNT_ANT1_802_11a_5240



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	10.14	1.25	11.39	24	Pass
NVNT	ANT1	802.11a	5200.00	9.07	0.79	9.86	24	Pass
NVNT	ANT1	802.11a	5240.00	10.36	1.14	11.50	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	13.76	0.20	13.96	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	12.91	0.13	13.04	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	14.36	0.19	14.55	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	7.26	2.04	9.30	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	6.46	2.04	8.50	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	7.56	1.46	9.02	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	13.38	0.39	13.77	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	14.15	0.39	14.54	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	6.09	1.76	7.85	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	6.69	3.01	9.70	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	6.13	2.22	8.35	24	Pass

4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	Limit (dBm/MHz)	Result
NVNT	ANT1	802.11a	5180.00	-0.30	1.25	0.95	11	Pass
NVNT	ANT1	802.11a	5200.00	-0.27	0.79	0.52	11	Pass
NVNT	ANT1	802.11a	5240.00	0.16	1.14	1.30	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	2.88	0.20	3.08	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	3.33	0.13	3.46	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	3.74	0.19	3.93	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	2.78	2.04	4.82	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	3.16	2.04	5.20	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	3.85	1.46	5.31	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	0.69	0.39	1.08	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	1.35	0.39	1.74	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	0.70	1.76	2.46	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	0.86	3.01	3.88	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-2.47	2.22	-0.25	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



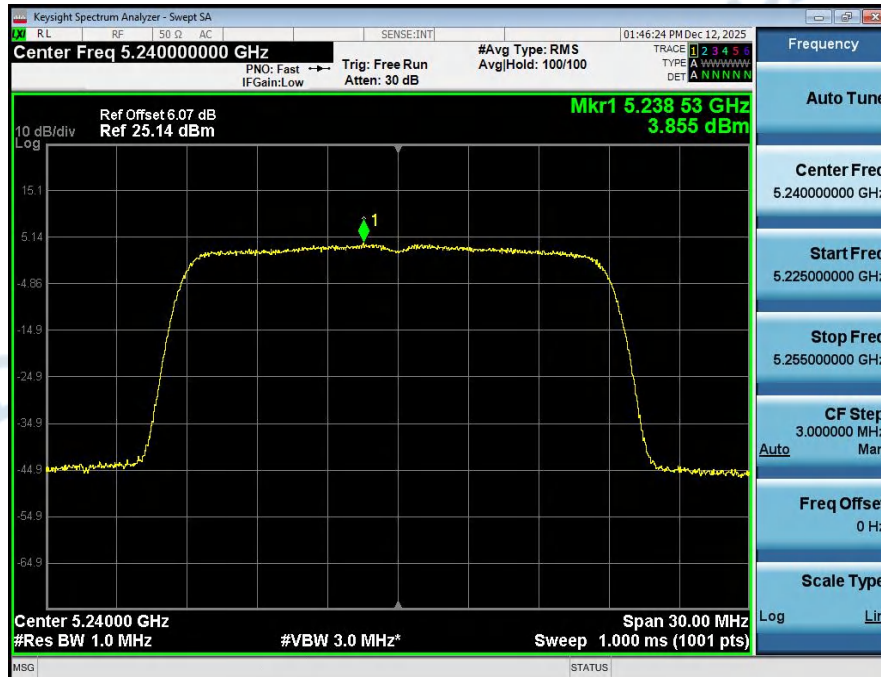
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240



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

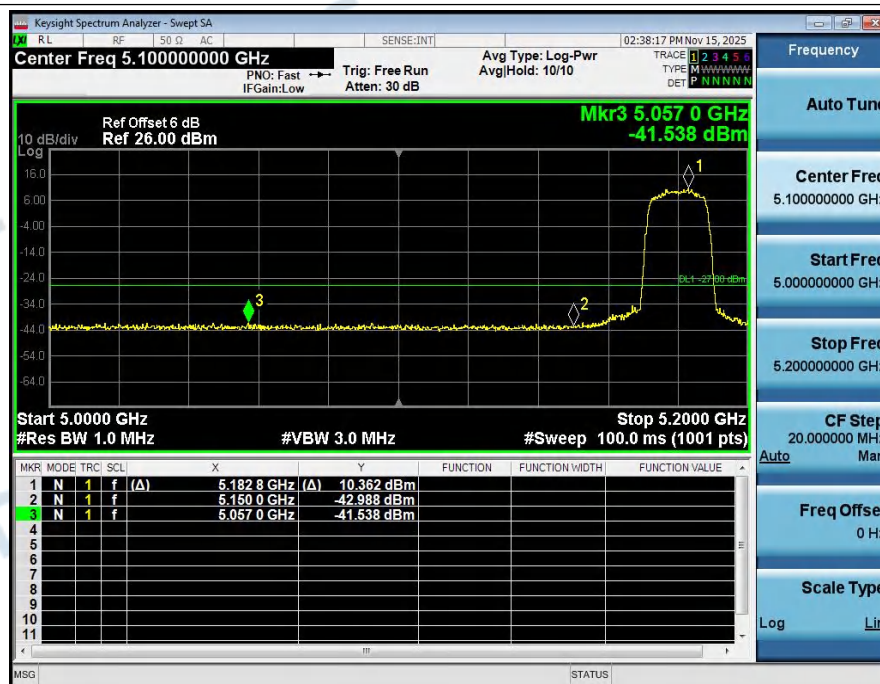


5. Bandedge

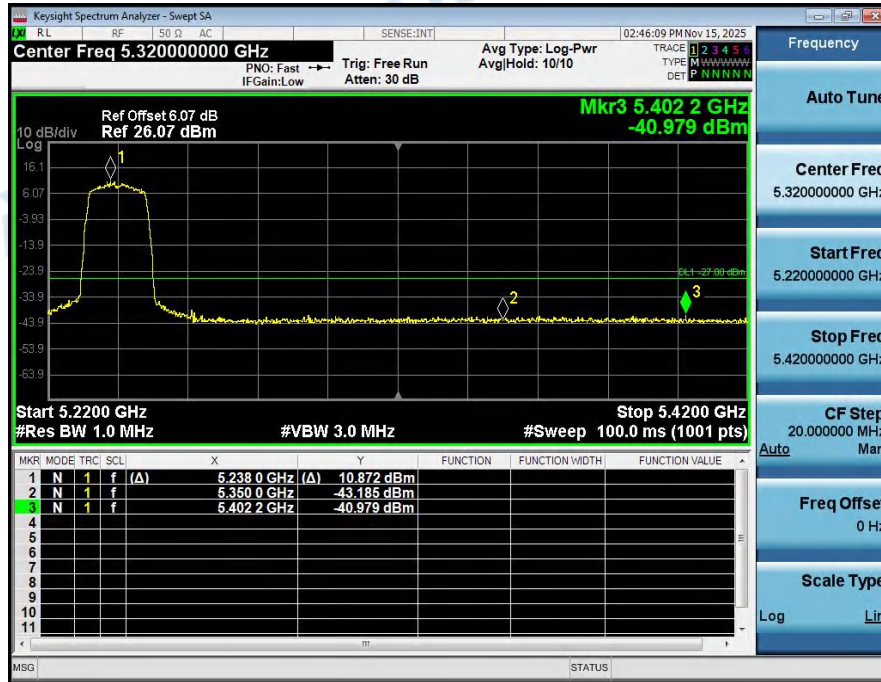
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level (dBm/MHz)	Limit (dBm/MHz)	Result
NVNT	ANT1	802.11a	5180.00	5057.00	-41.54	-27	Pass
NVNT	ANT1	802.11a	5240.00	5402.20	-40.98	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5097.80	-39.47	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5370.40	-40.80	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5128.60	-40.98	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5365.00	-41.16	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5149.52	-33.31	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5410.34	-41.11	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5145.95	-40.46	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5409.92	-40.89	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5125.16	-34.71	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5366.66	-40.92	-27	Pass

Note: The test data did not compensate for the antenna gain. The test margin is greater than the sum of the antenna gain and the cable loss, therefore the test meets the requirements.

Bandedge_NVNT_ANT1_802_11a_5180



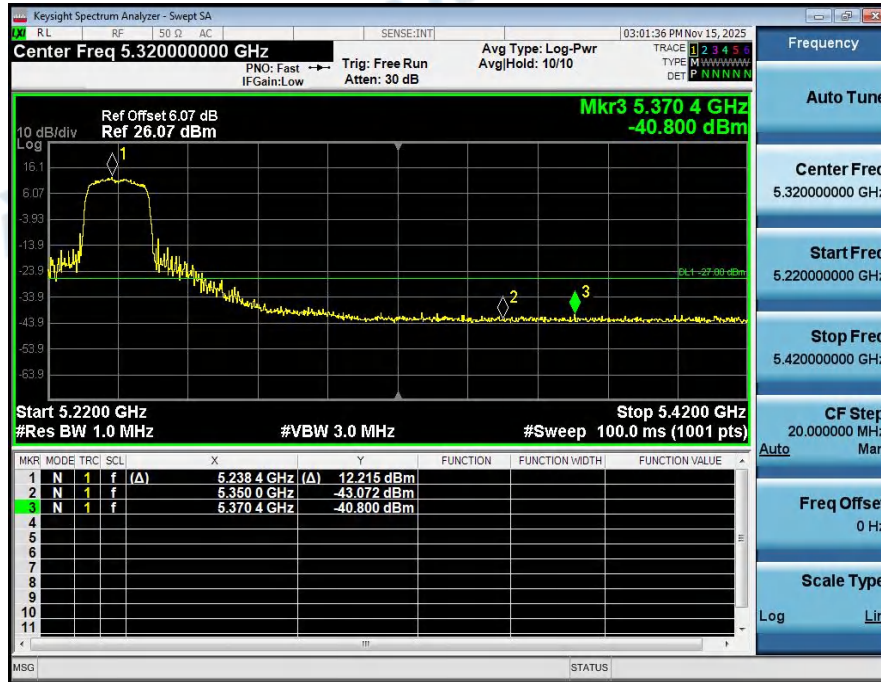
Bandedge_NVNT_ANT1_802_11a_5240



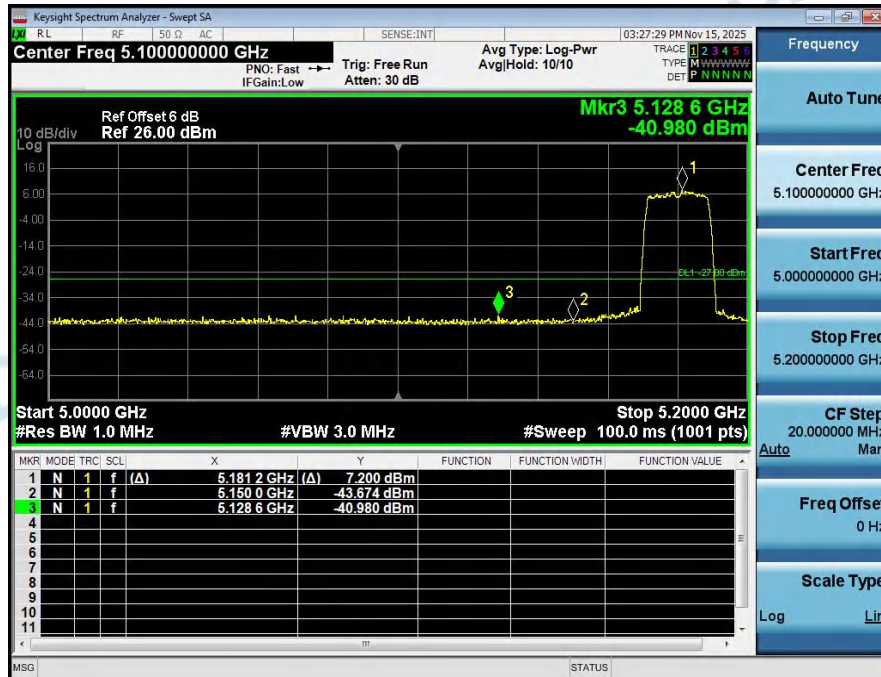
Bandedge_NVNT_ANT1_802_11n(HT20)_5180



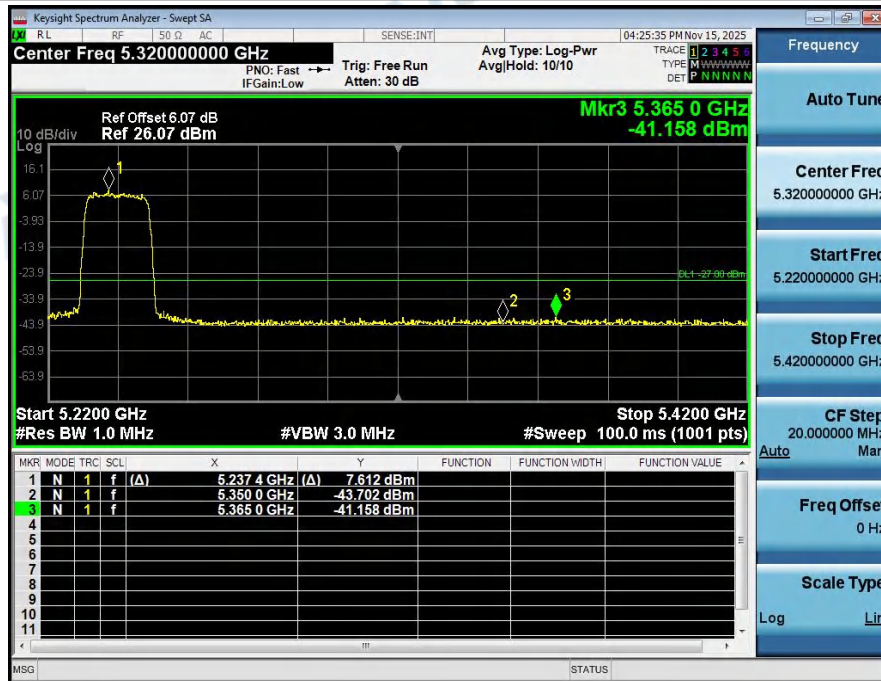
Bandedge_NVNT_ANT1_802_11n(HT20)_5240



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5180



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



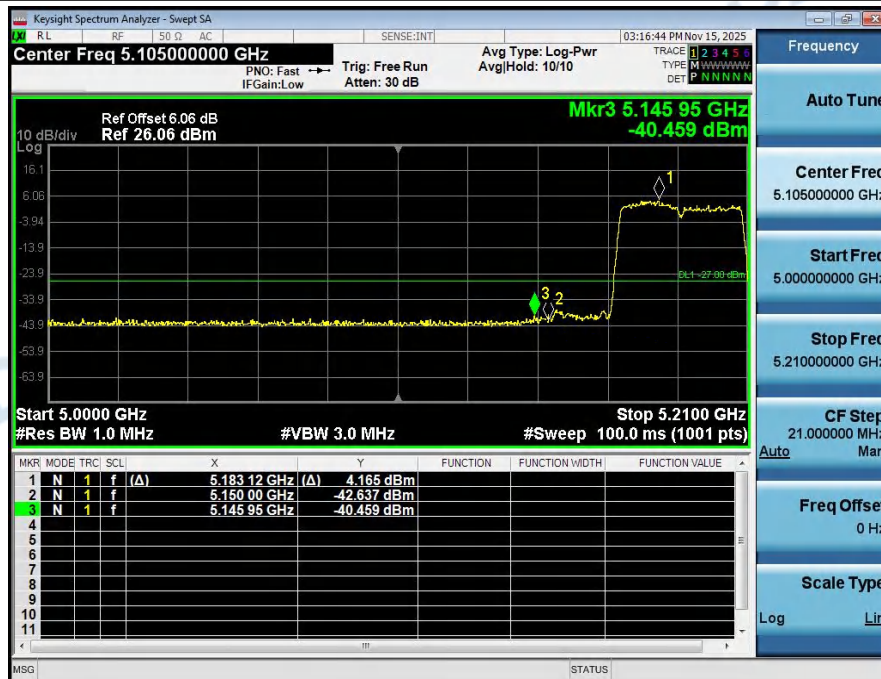
Bandedge_NVNT_ANT1_802_11n(HT40)_5190



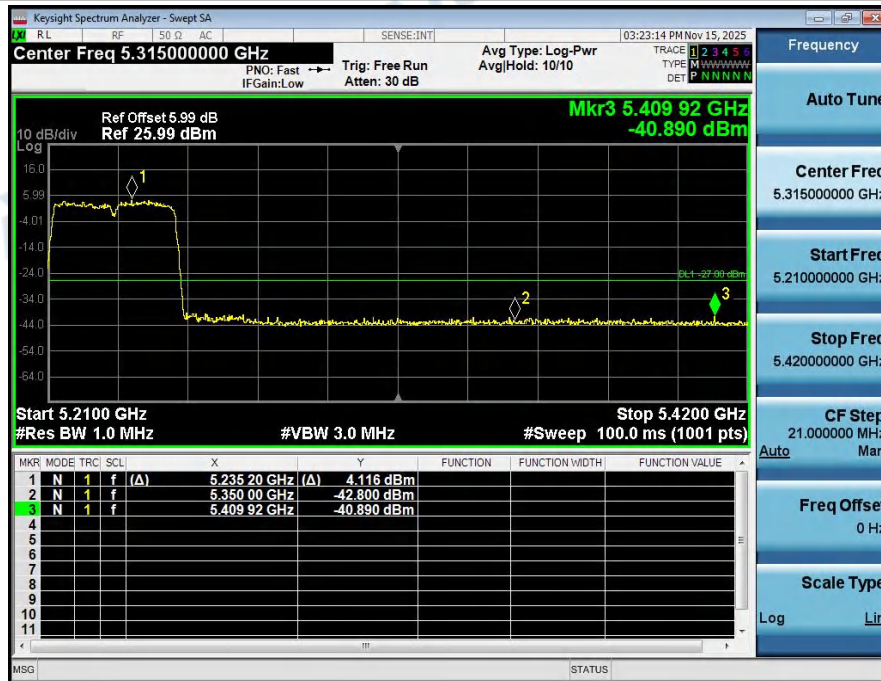
Bandedge_NVNT_ANT1_802_11n(HT40)_5230



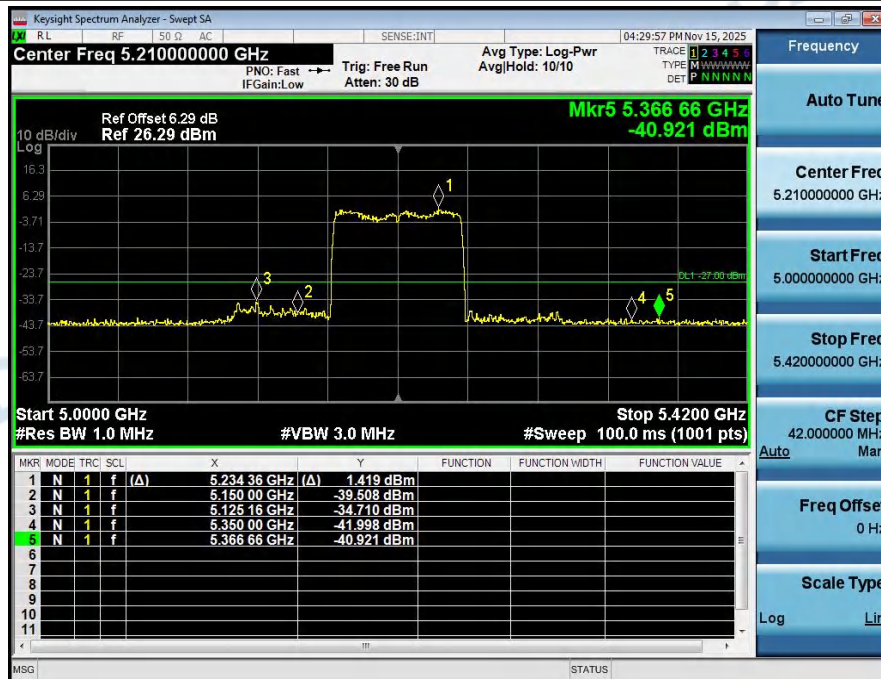
Bandedge_NVNT_ANT1_802_11ac(VHT40)_5190



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



Bandedge_NVNT_ANT1_802_11ac(VHT80)_5210

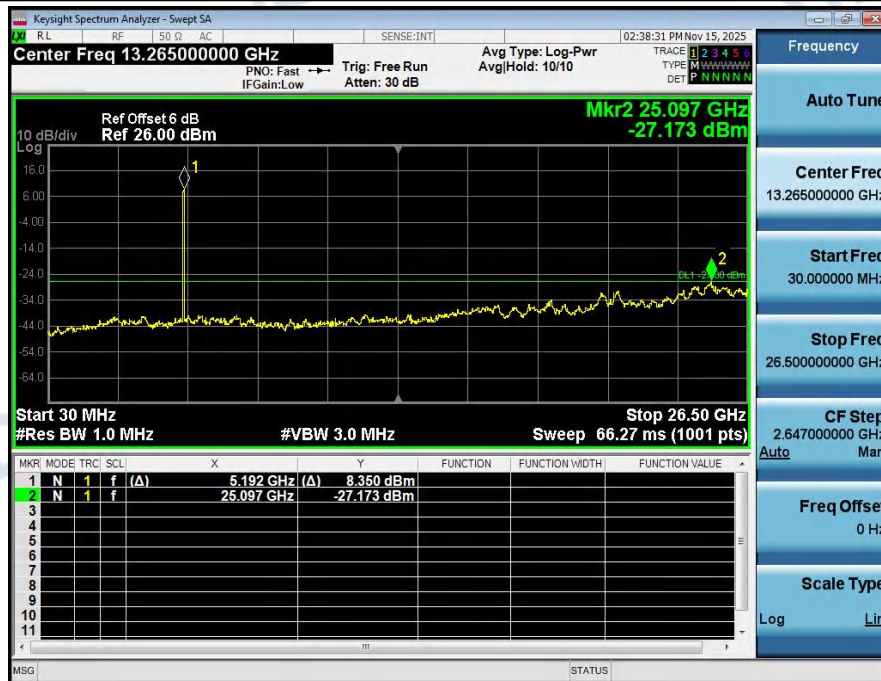


6. Spurious Emission

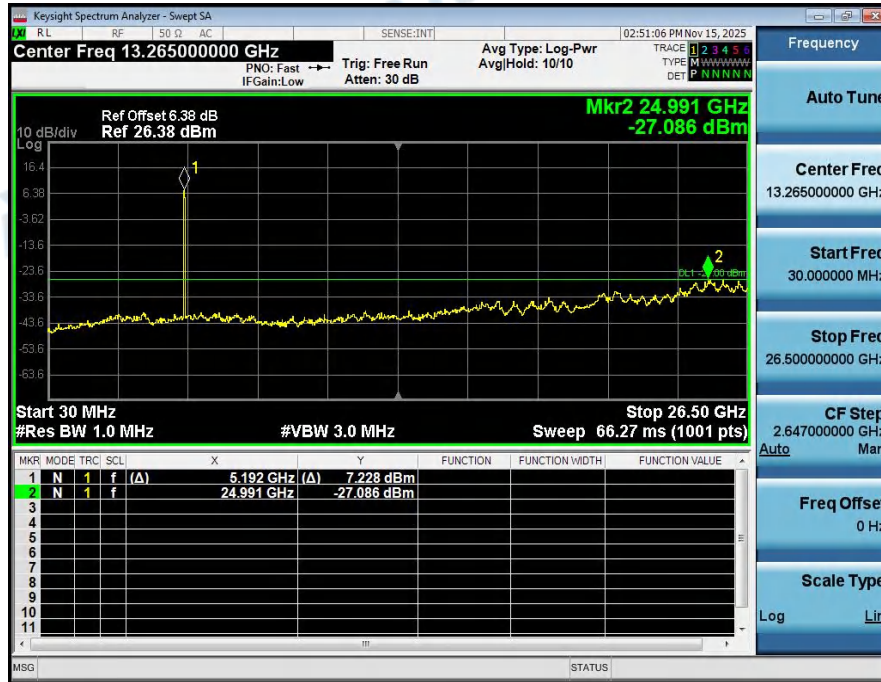
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level (dBm/MHz)	Limit (dBm/MHz)	Result
NVNT	ANT1	802.11a	5180.00	25097.09	-27.17	-27	Pass
NVNT	ANT1	802.11a	5200.00	24991.21	-27.09	-27	Pass
NVNT	ANT1	802.11a	5240.00	25123.56	-27.23	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	25547.08	-27.25	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	25017.68	-37.12	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	25017.68	-37.71	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25097.09	-27.39	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	25044.15	-27.04	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	24488.28	-27.20	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	25017.68	-27.61	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	24964.74	-28.21	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	26155.89	-27.82	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	24911.80	-27.92	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	25679.43	-27.44	-27	Pass

Note: The test data did not compensate for the antenna gain. The test margin is greater than the sum of the antenna gain and the cable loss, therefore the test meets the requirements.

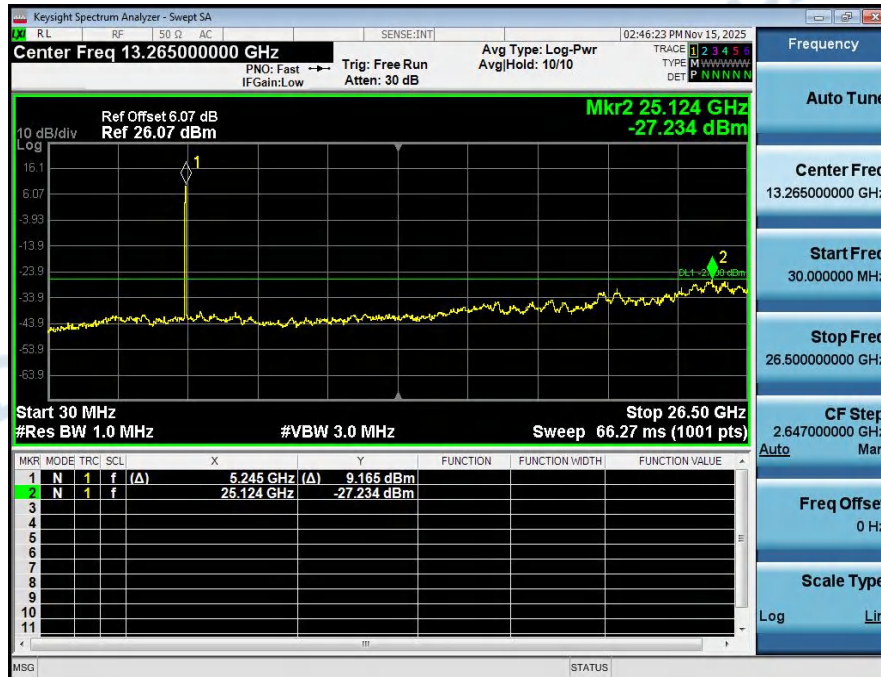
Spurious_Emission_NVNT_ANT1_802_11a_5180_20M



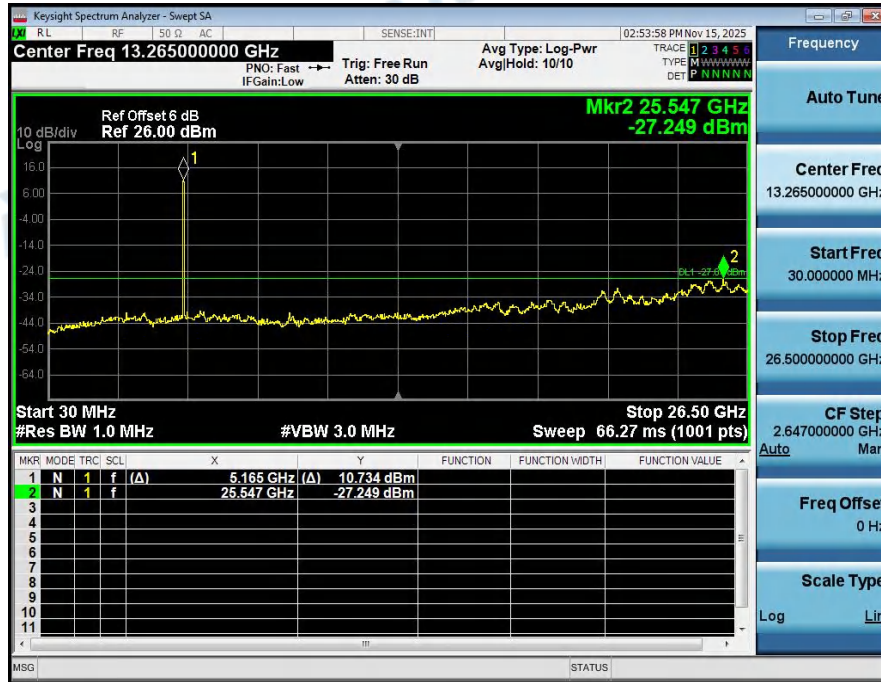
Spurious_Emission_NVNT_ANT1_802_11a_5200_20M



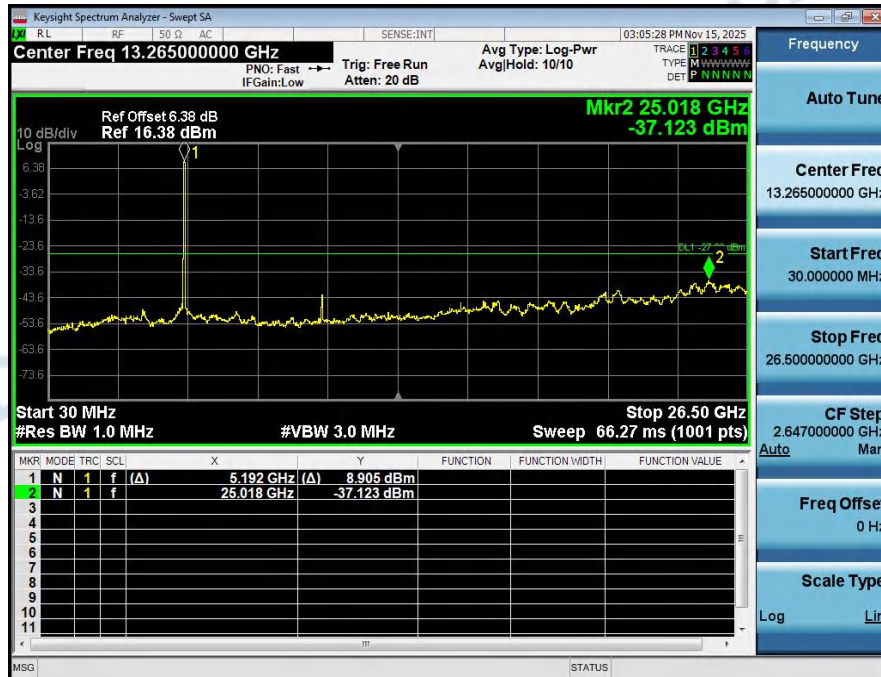
Spurious_Emission_NVNT_ANT1_802_11a_5240_20M



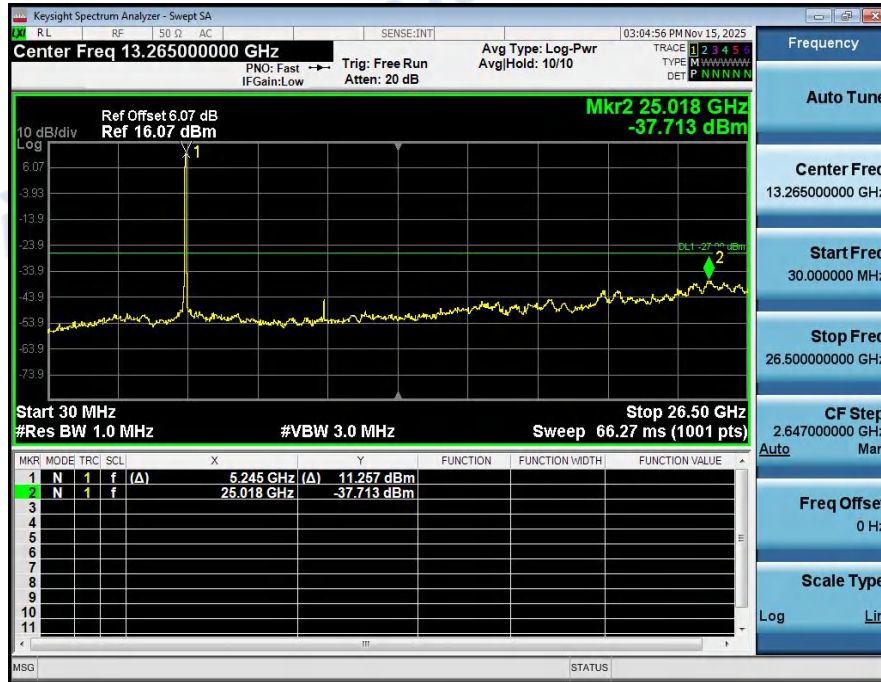
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5180_20M



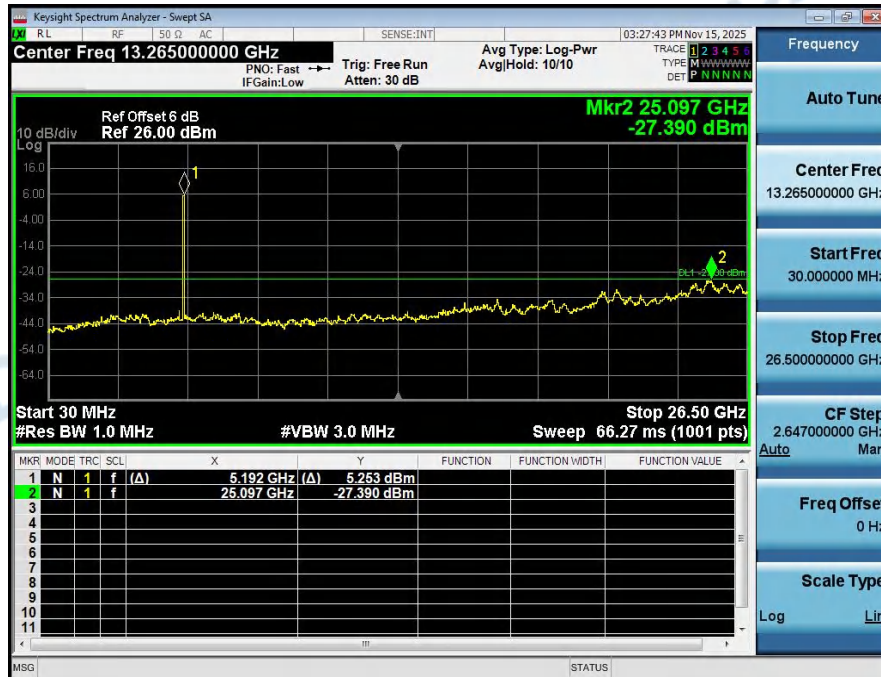
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5200_20M



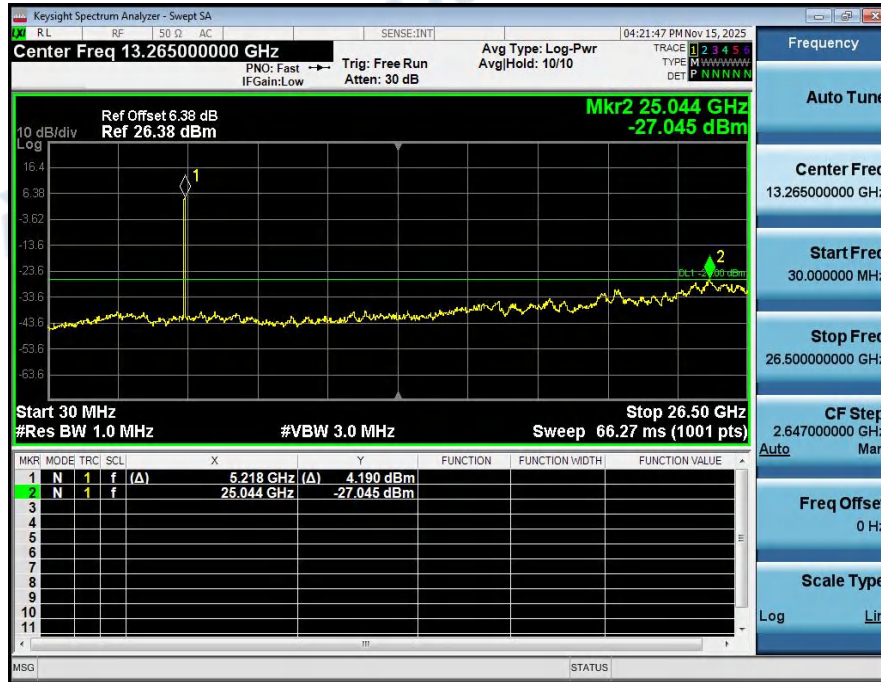
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5240_20M



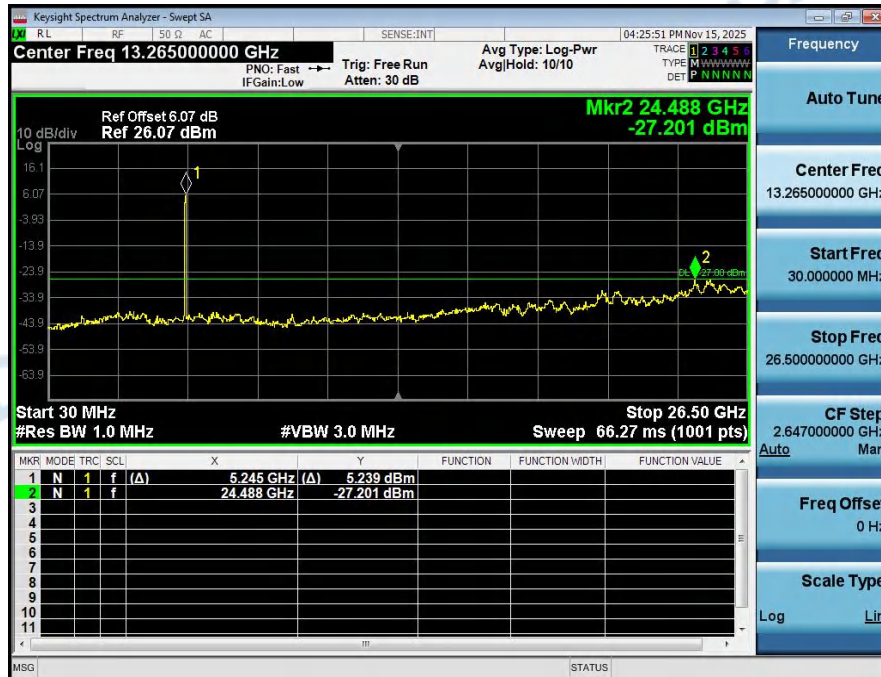
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5180_20M



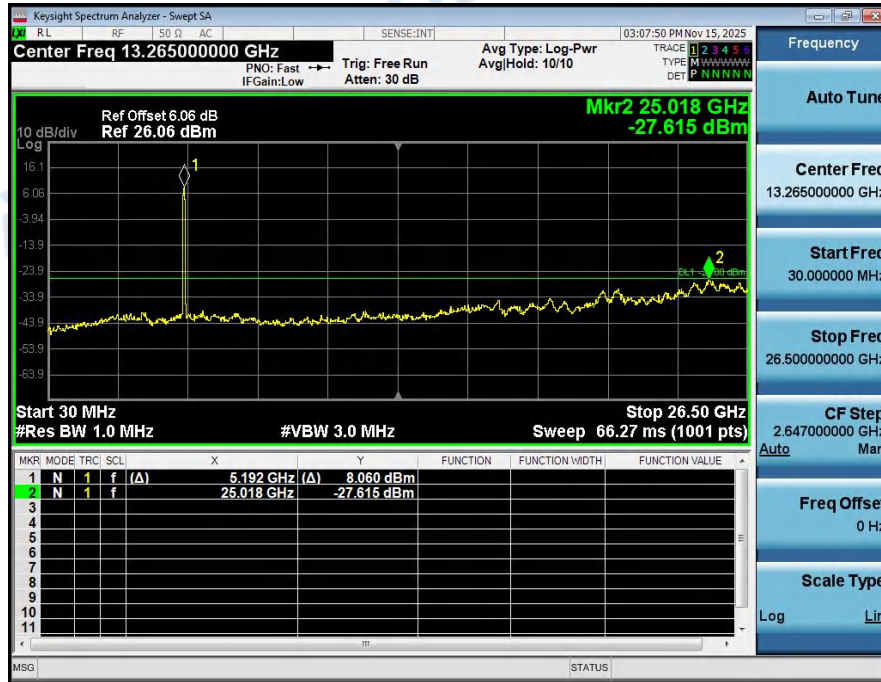
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5200_20M



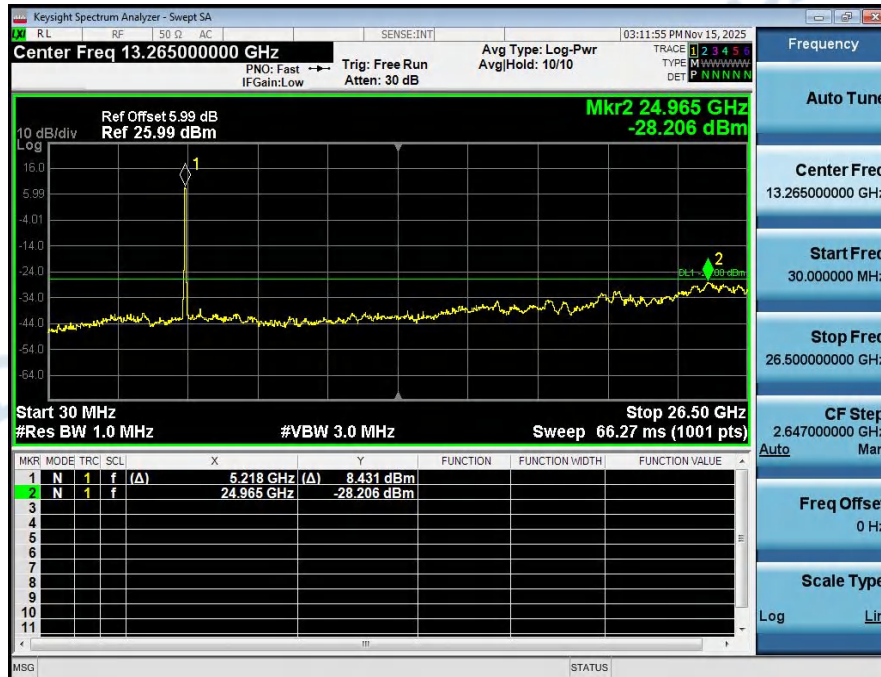
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5240_20M



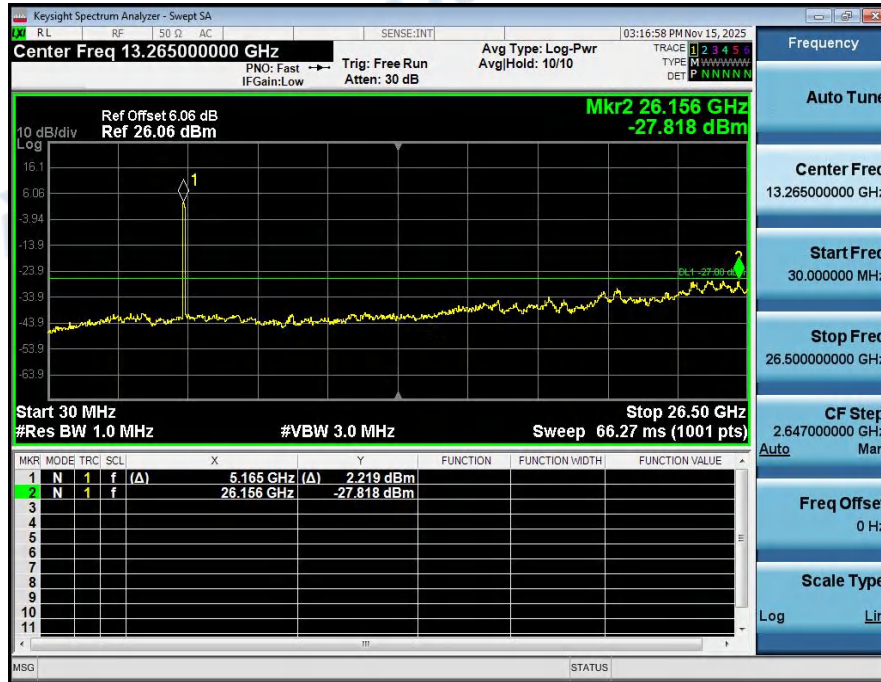
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5190_40M



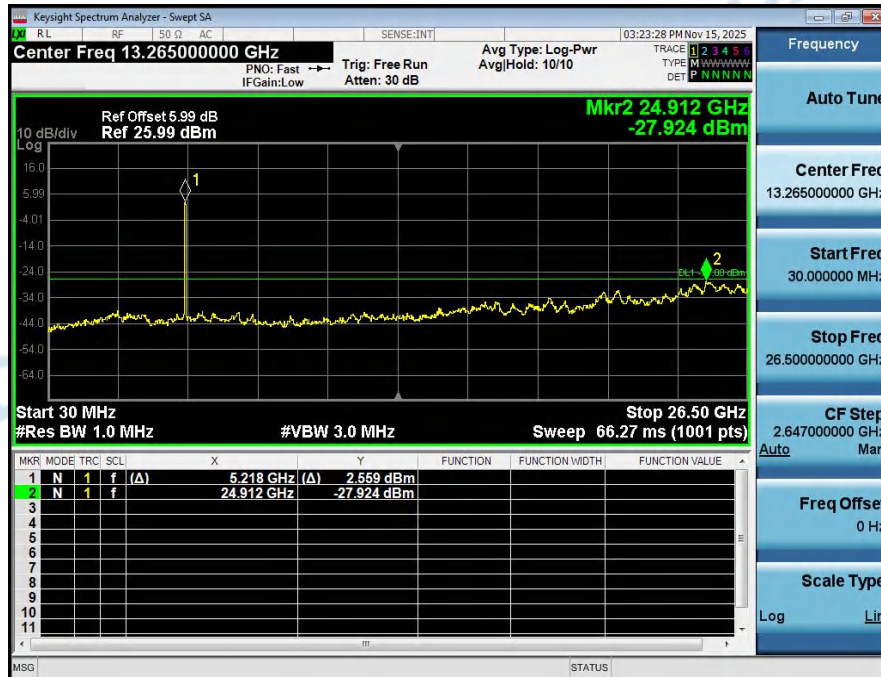
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5230_40M



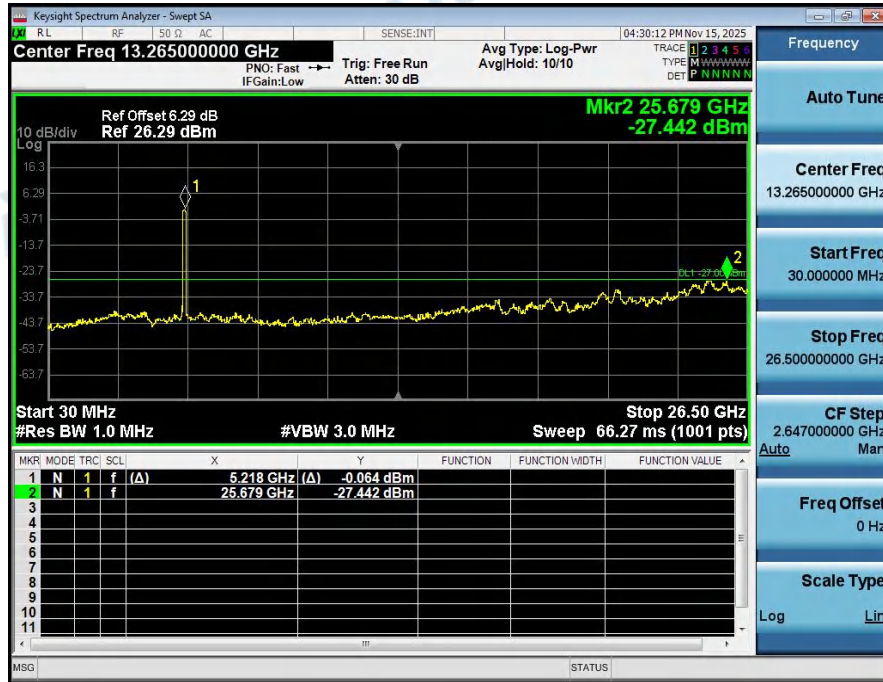
Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5190_40M



Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5230_40M



Spurious_Emission_NVNT_ANT1_802_11ac(VHT80)_5210_80M



7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fi(MHz)	Fh(MHz)	Limit(MHz)	Result
55degrees C&&3.80V	ANT1	802.11a	5180.00	5179.948	5171.640	5188.256	5150~5250	Pass
45degrees C&&3.80V	ANT1	802.11a	5180.00	5179.950	5171.772	5188.128	5150~5250	Pass
35degrees C&&3.80V	ANT1	802.11a	5180.00	5179.952	5171.856	5188.048	5150~5250	Pass
25degrees C&&3.80V	ANT1	802.11a	5180.00	5179.964	5171.940	5187.988	5150~5250	Pass
15degrees C&&3.80V	ANT1	802.11a	5180.00	5179.968	5172.004	5187.932	5150~5250	Pass
5degrees C&&3.80V	ANT1	802.11a	5180.00	5179.974	5172.072	5187.876	5150~5250	Pass
-5degrees C&&3.80V	ANT1	802.11a	5180.00	5179.950	5172.128	5187.772	5150~5250	Pass
-15degrees C&&3.80V	ANT1	802.11a	5180.00	5179.960	5172.204	5187.716	5150~5250	Pass
25degrees C&&4.37V	ANT1	802.11a	5180.00	5179.964	5172.272	5187.656	5150~5250	Pass
25degrees C&&3.80V	ANT1	802.11a	5180.00	5179.982	5172.336	5187.628	5150~5250	Pass
25degrees C&&3.23V	ANT1	802.11a	5180.00	5179.958	5172.396	5187.520	5150~5250	Pass
55degrees C&&3.80V	ANT1	802.11a	5200.00	5199.966	5191.600	5208.332	5150~5250	Pass
45degrees C&&3.80V	ANT1	802.11a	5200.00	5199.970	5191.724	5208.216	5150~5250	Pass
35degrees C&&3.80V	ANT1	802.11a	5200.00	5199.976	5191.800	5208.152	5150~5250	Pass
25degrees C&&3.80V	ANT1	802.11a	5200.00	5199.978	5191.872	5208.084	5150~5250	Pass
15degrees C&&3.80V	ANT1	802.11a	5200.00	5199.974	5191.928	5208.020	5150~5250	Pass
5degrees C&&3.80V	ANT1	802.11a	5200.00	5199.972	5191.984	5207.960	5150~5250	Pass
-5degrees C&&3.80V	ANT1	802.11a	5200.00	5199.984	5192.036	5207.932	5150~5250	Pass
-15degrees C&&3.80V	ANT1	802.11a	5200.00	5199.982	5192.096	5207.868	5150~5250	Pass
25degrees C&&4.37V	ANT1	802.11a	5200.00	5199.986	5192.144	5207.828	5150~5250	Pass
25degrees C&&3.80V	ANT1	802.11a	5200.00	5199.998	5192.200	5207.796	5150~5250	Pass
25degrees C&&3.23V	ANT1	802.11a	5200.00	5200.000	5192.244	5207.756	5150~5250	Pass
55degrees C&&3.80V	ANT1	802.11a	5240.00	5239.958	5231.644	5248.272	5150~5250	Pass
45degrees C&&3.80V	ANT1	802.11a	5240.00	5239.932	5231.756	5248.108	5150~5250	Pass
35degrees C&&3.80V	ANT1	802.11a	5240.00	5239.930	5231.848	5248.012	5150~5250	Pass
25degrees C&&3.80V	ANT1	802.11a	5240.00	5239.942	5231.916	5247.968	5150~5250	Pass
15degrees C&&3.80V	ANT1	802.11a	5240.00	5239.932	5231.976	5247.888	5150~5250	Pass
5degrees C&&3.80V	ANT1	802.11a	5240.00	5239.914	5232.028	5247.800	5150~5250	Pass
-5degrees C&&3.80V	ANT1	802.11a	5240.00	5239.936	5232.092	5247.780	5150~5250	Pass
-15degrees C&&3.80V	ANT1	802.11a	5240.00	5239.902	5232.156	5247.648	5150~5250	Pass
25degrees C&&4.37V	ANT1	802.11a	5240.00	5239.916	5232.216	5247.616	5150~5250	Pass
25degrees C&&3.80V	ANT1	802.11a	5240.00	5239.896	5232.256	5247.536	5150~5250	Pass
25degrees C&&3.23V	ANT1	802.11a	5240.00	5239.902	5232.316	5247.488	5150~5250	Pass

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