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# 231124 FCC WIFI5.2 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	19.54	16.763
NVNT	ANT1	802.11a	5200.00	19.81	16.721
NVNT	ANT1	802.11a	5240.00	19.75	16.723
NVNT	ANT1	802.11n(HT20)	5180.00	20.19	17.785
NVNT	ANT1	802.11n(HT20)	5200.00	20.28	17.770
NVNT	ANT1	802.11n(HT20)	5240.00	19.94	17.725
NVNT	ANT1	802.11ac(VHT20)	5180.00	20.08	17.770
NVNT	ANT1	802.11ac(VHT20)	5200.00	20.09	17.757
NVNT	ANT1	802.11ac(VHT20)	5240.00	19.99	17.784
NVNT	ANT1	802.11n(HT40)	5190.00	40.02	36.117
NVNT	ANT1	802.11n(HT40)	5230.00	40.06	36.088
NVNT	ANT1	802.11ac(VHT40)	5190.00	39.69	36.072
NVNT	ANT1	802.11ac(VHT40)	5230.00	40.26	36.130
NVNT	ANT1	802.11ac(VHT80)	5210.00	81.77	76.014





**-26BW\_OCB\_NVNT\_ANT1\_802\_11a\_5200**



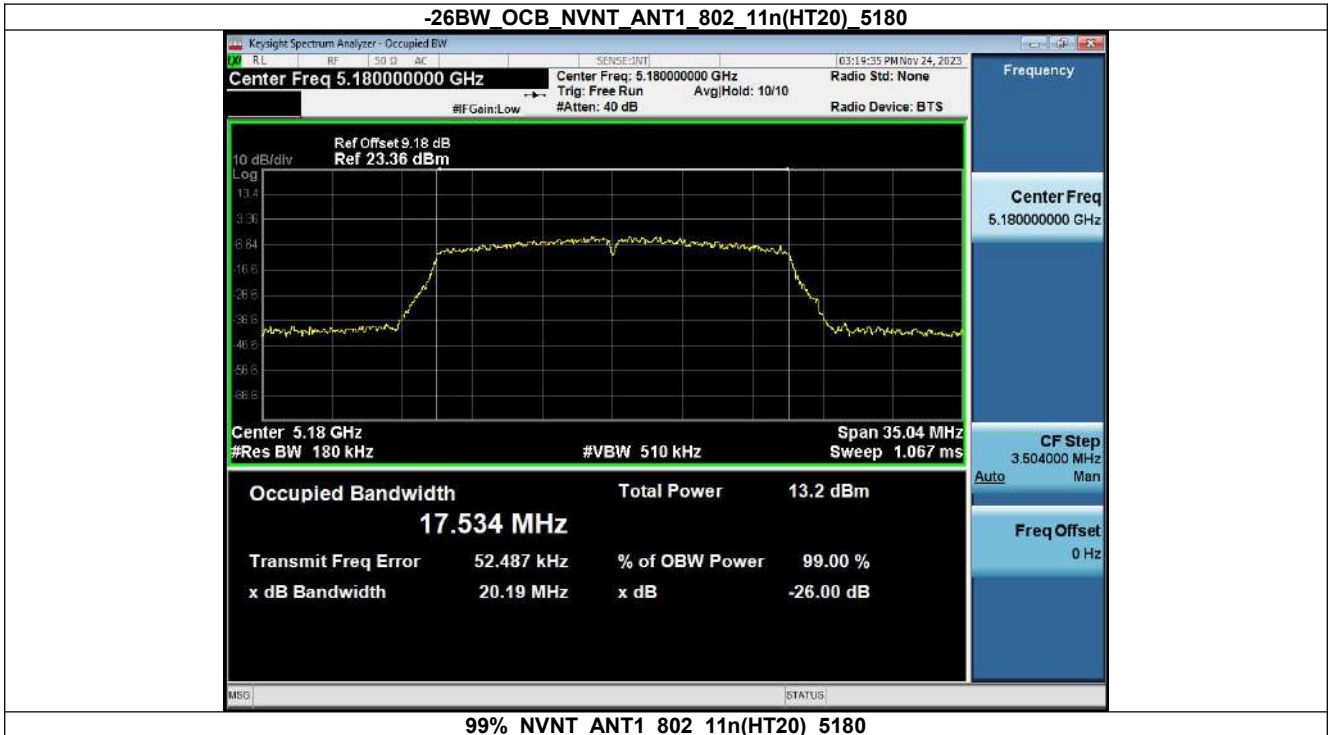


**-26BW\_OCB\_NVNT\_ANT1\_802\_11a\_5240**



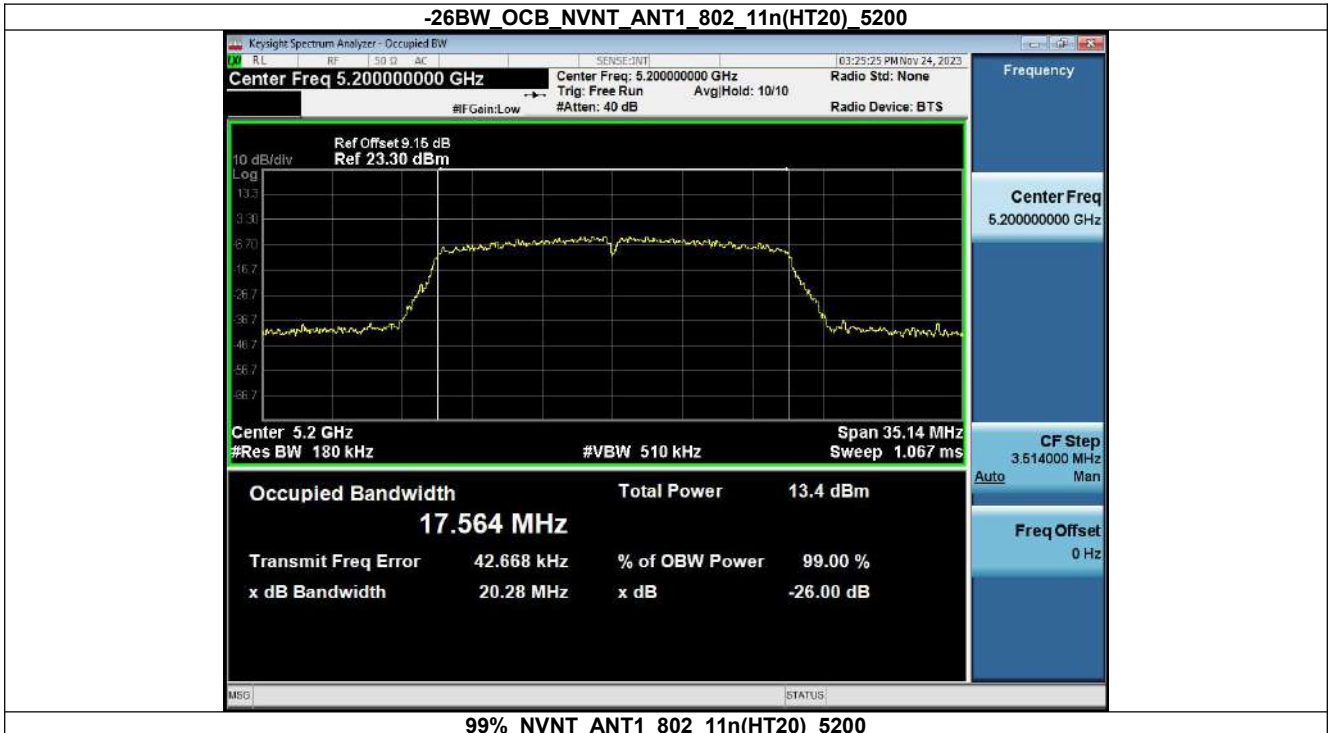


**-26BW OCB NVNT ANT1 802\_11n(HT20)\_5180**





**-26BW OCB NVNT ANT1 802\_11n(HT20)\_5200**





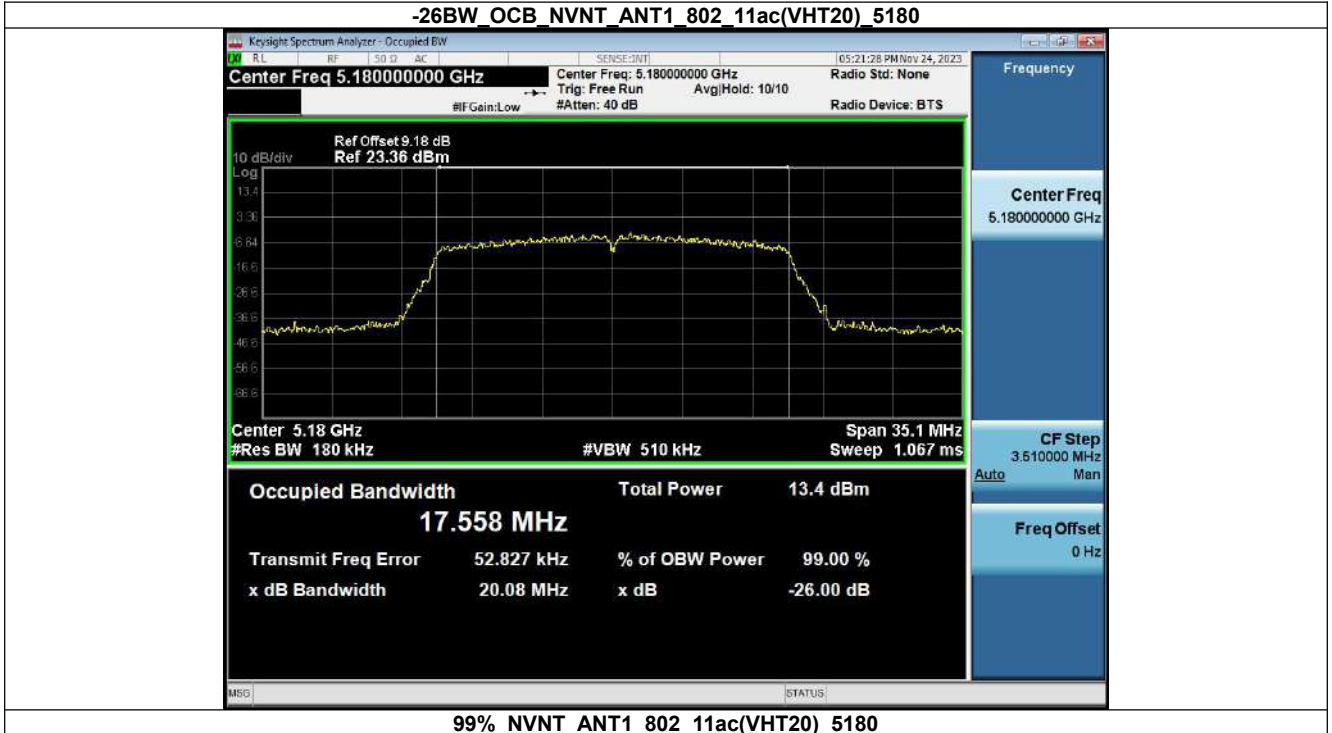


**-26BW OCB NVNT ANT1 802\_11n(HT20)\_5240**





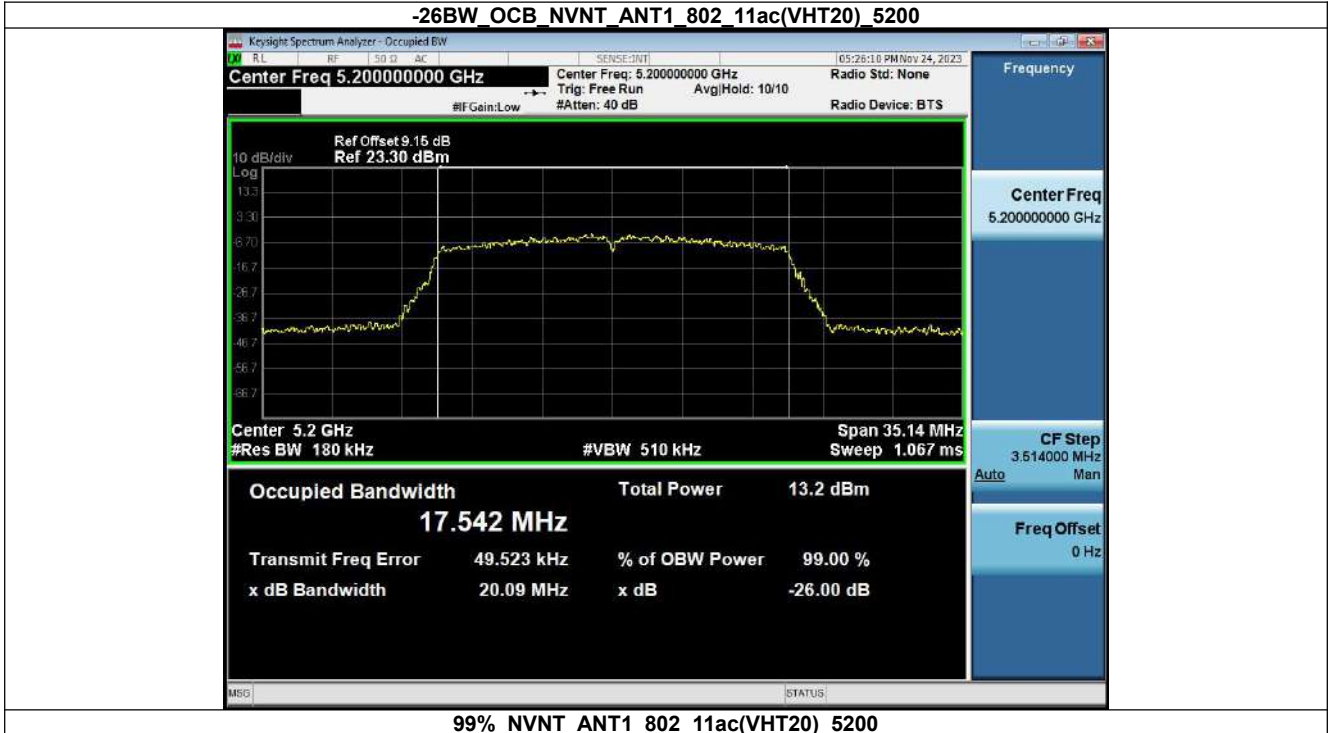
**-26BW\_OCB\_NVNT\_ANT1\_802\_11ac(VHT20)\_5180**





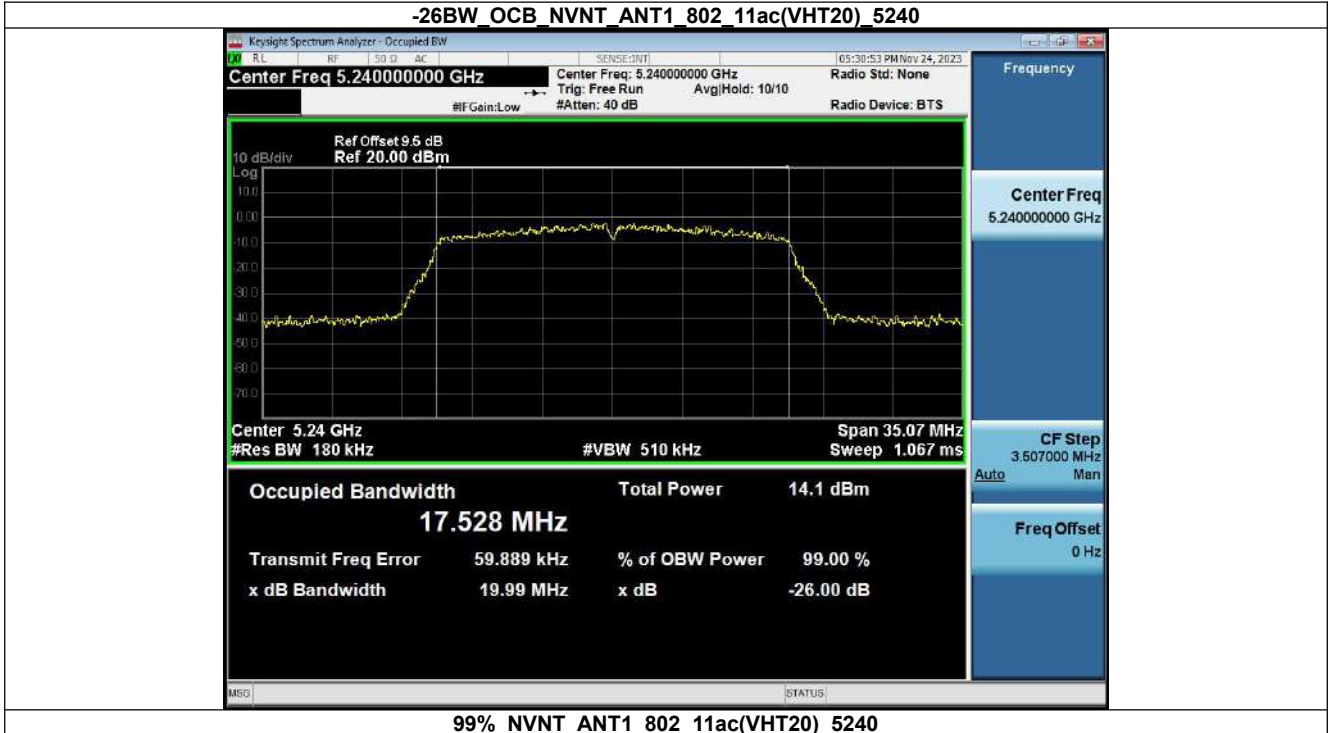


**-26BW\_OCB\_NVNT\_ANT1\_802\_11ac(VHT20)\_5200**



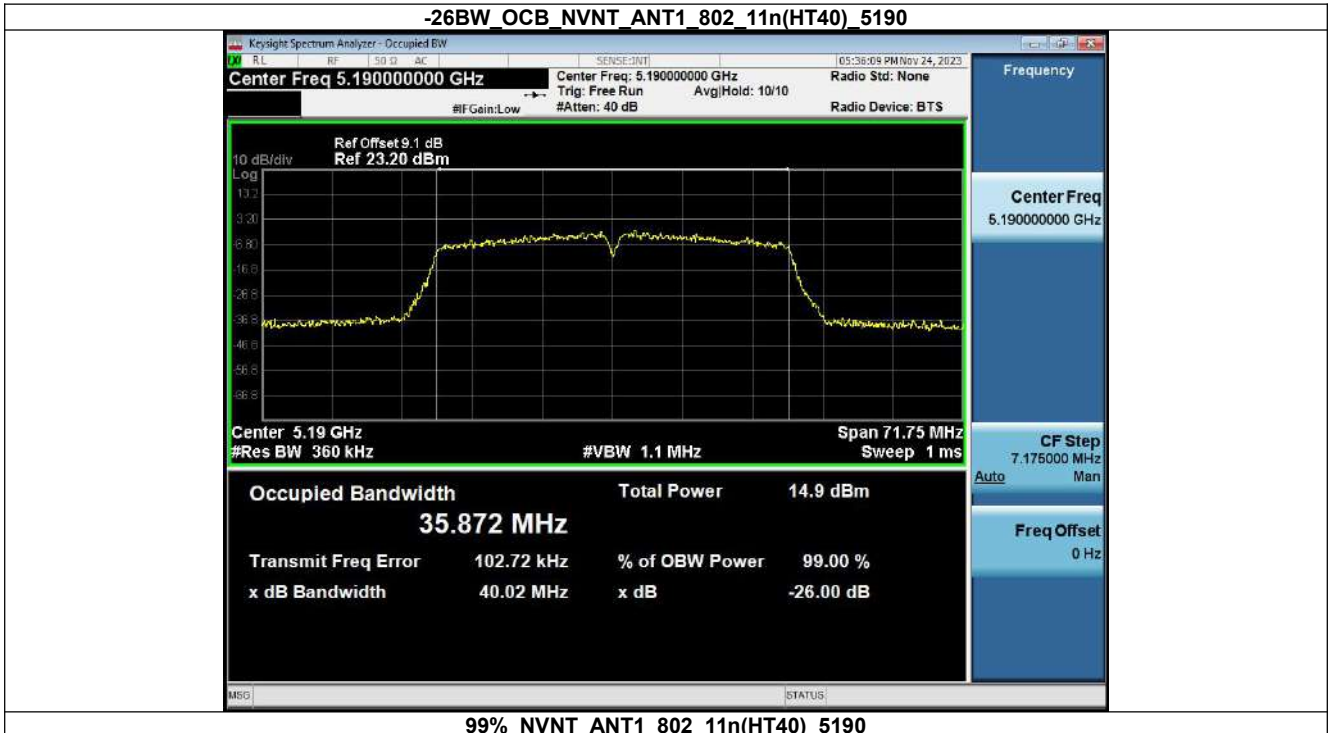


**-26BW\_OCB\_NVNT\_ANT1\_802\_11ac(VHT20)\_5240**





**-26BW OCB NVNT ANT1 802\_11n(HT40)\_5190**





**-26BW OCB NVNT ANT1 802\_11n(HT40) 5230**





**-26BW OCB NVNT ANT1 802\_11ac(VHT40) 5190**

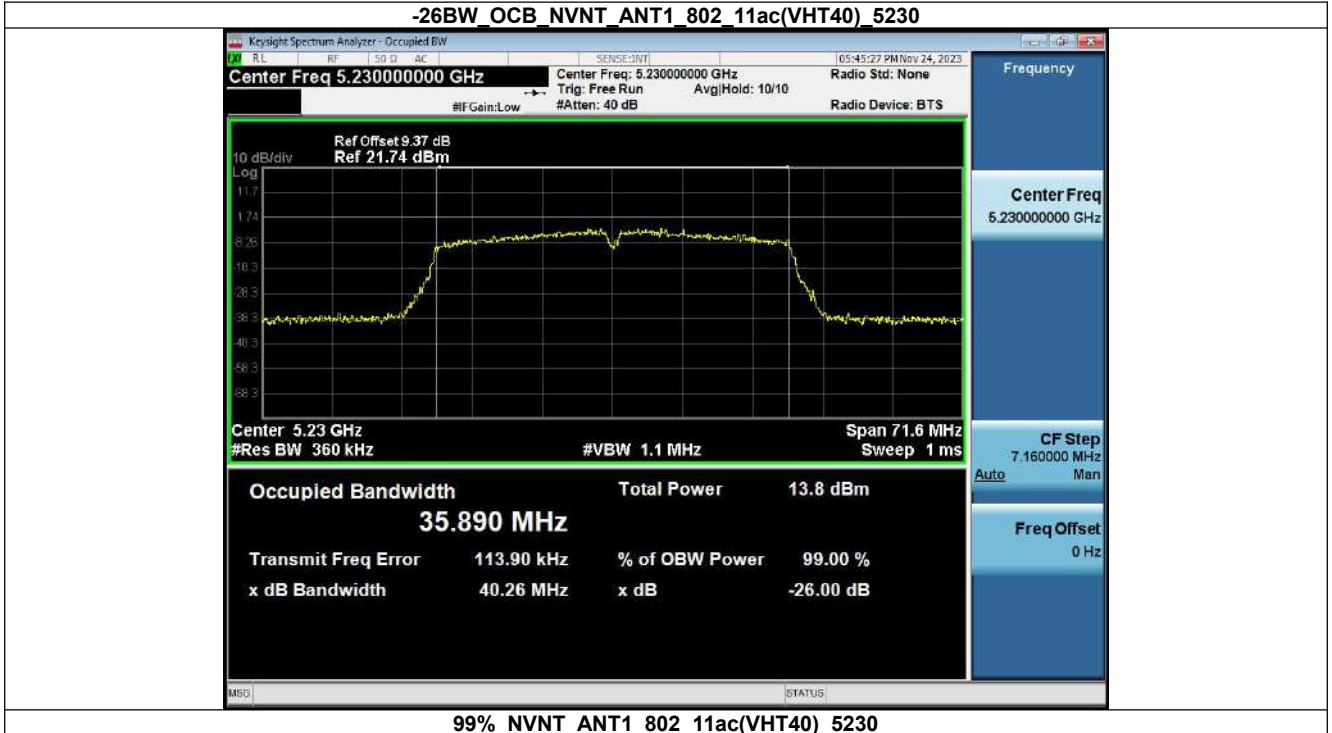


**99%\_NVNT\_ANT1\_802\_11ac(VHT40)\_5190**





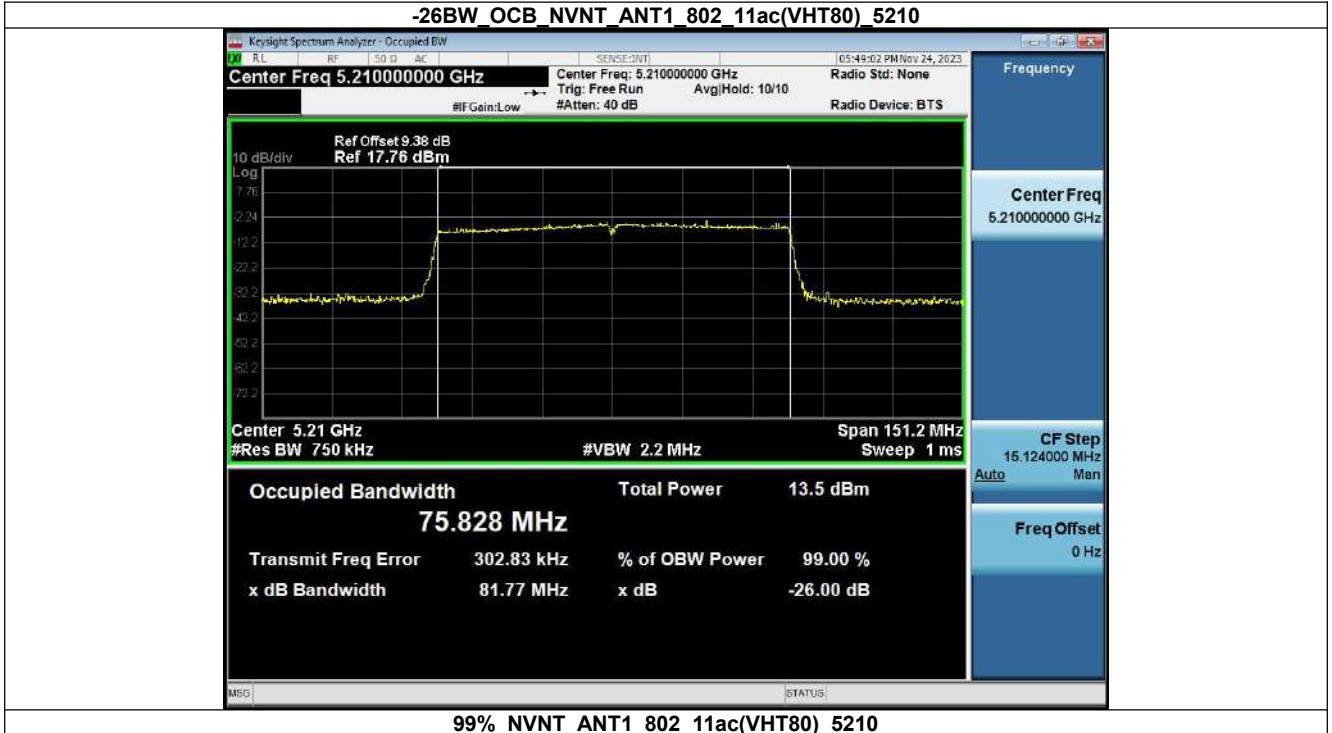
**-26BW OCB NVNT ANT1\_802\_11ac(VHT40)\_5230**







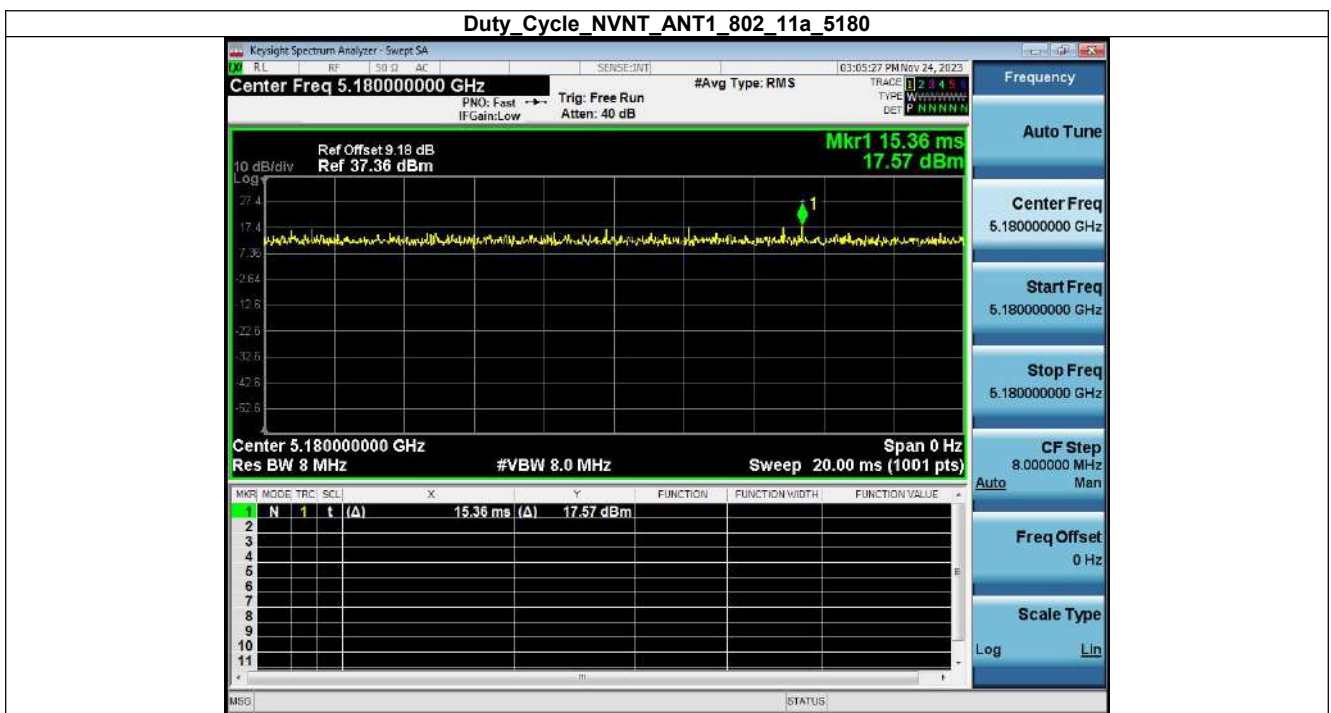
**-26BW\_OCB\_NVNT\_ANT1\_802\_11ac(VHT80)\_5210**



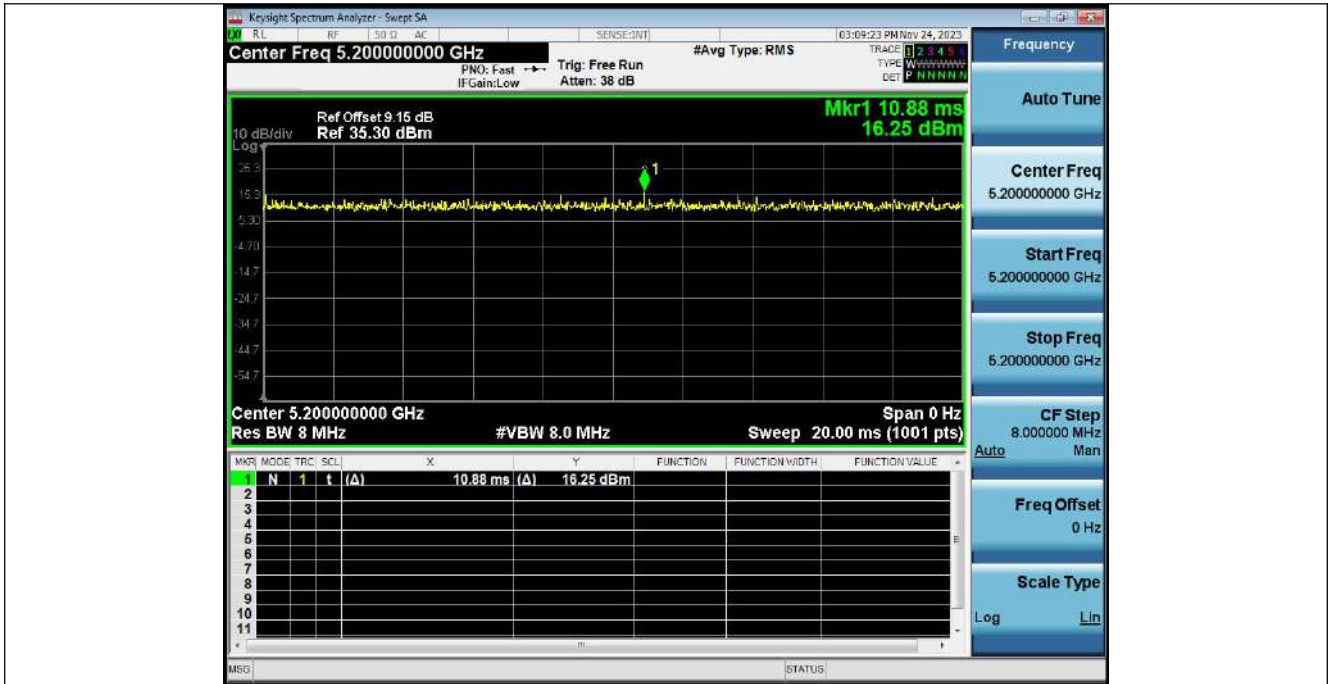


## 2. Duty Cycle

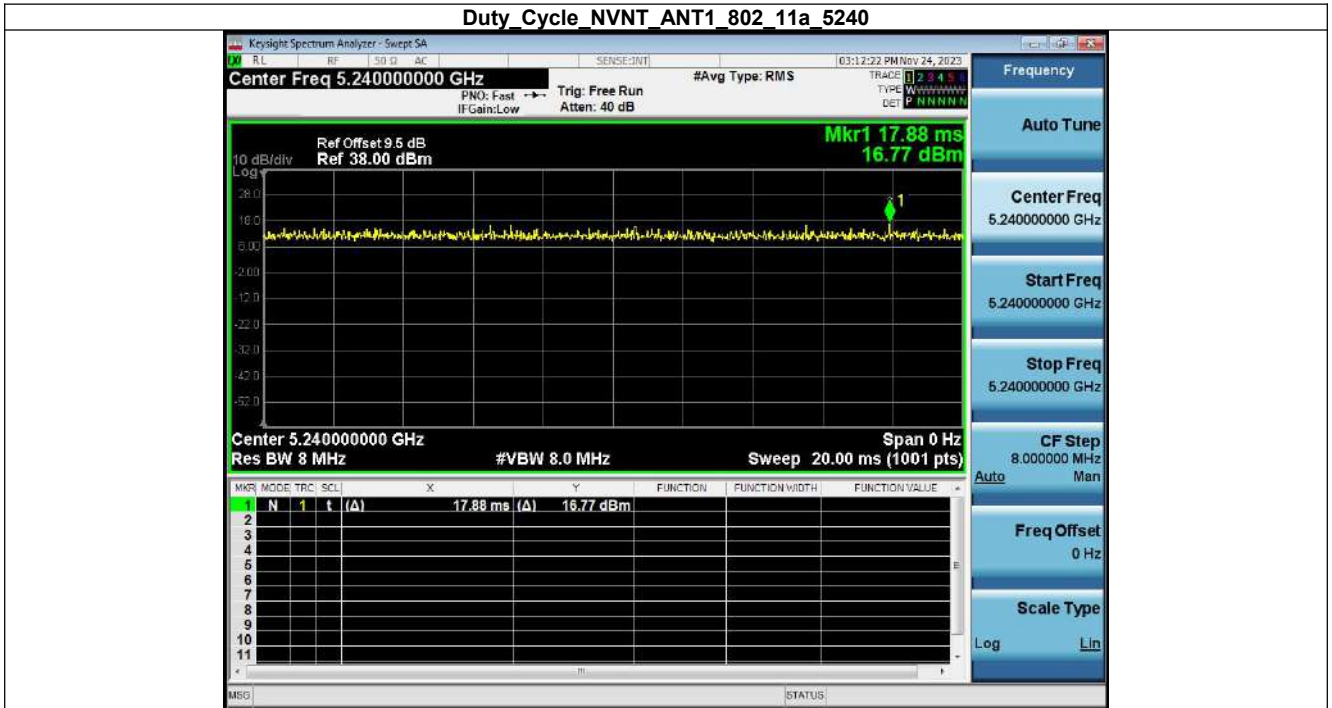
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	100	0.00
NVNT	ANT1	802.11a	5200.00	100	0.00
NVNT	ANT1	802.11a	5240.00	100	0.00
NVNT	ANT1	802.11n(HT20)	5180.00	100	0.00
NVNT	ANT1	802.11n(HT20)	5200.00	100	0.00
NVNT	ANT1	802.11n(HT20)	5240.00	100	0.00
NVNT	ANT1	802.11ac(VHT20)	5180.00	100	0.00
NVNT	ANT1	802.11ac(VHT20)	5200.00	100	0.00
NVNT	ANT1	802.11ac(VHT20)	5240.00	100	0.00
NVNT	ANT1	802.11n(HT40)	5190.00	100	0.00
NVNT	ANT1	802.11n(HT40)	5230.00	100	0.00
NVNT	ANT1	802.11ac(VHT40)	5190.00	100	0.00
NVNT	ANT1	802.11ac(VHT40)	5230.00	100	0.00
NVNT	ANT1	802.11ac(VHT80)	5210.00	100	0.00



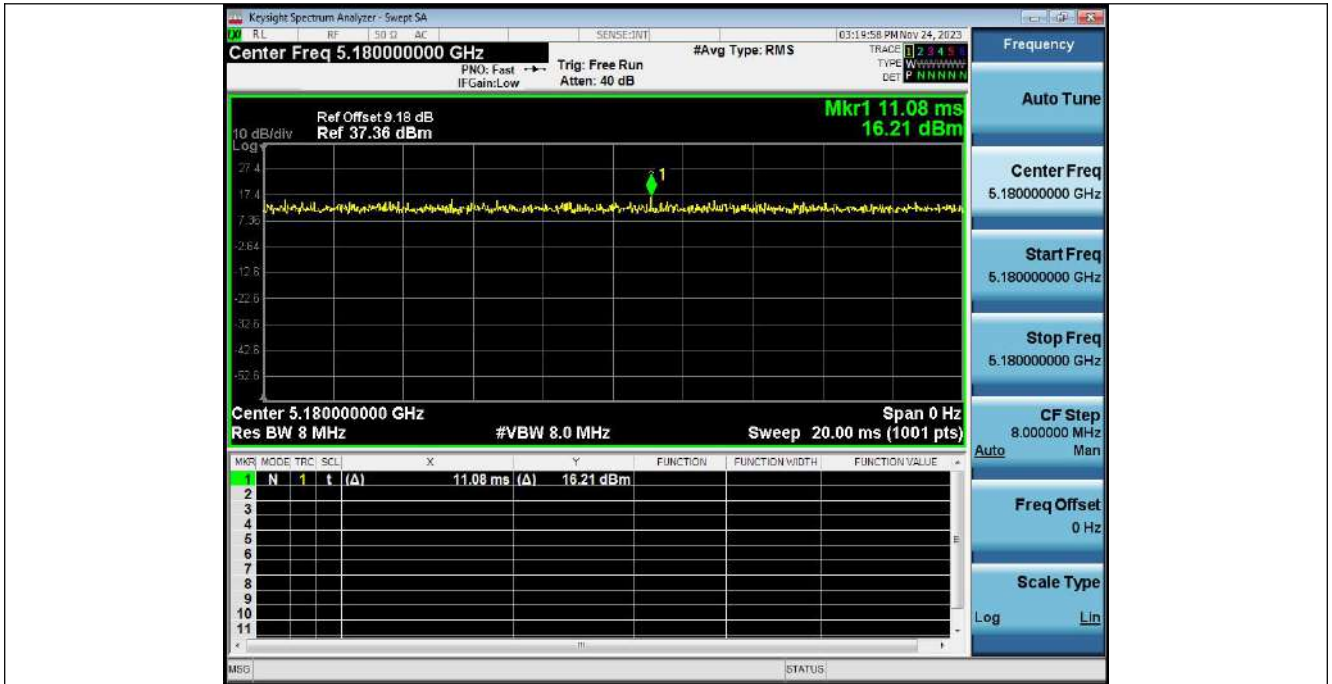
**Duty Cycle\_NVNT\_ANT1\_802\_11a\_5200**



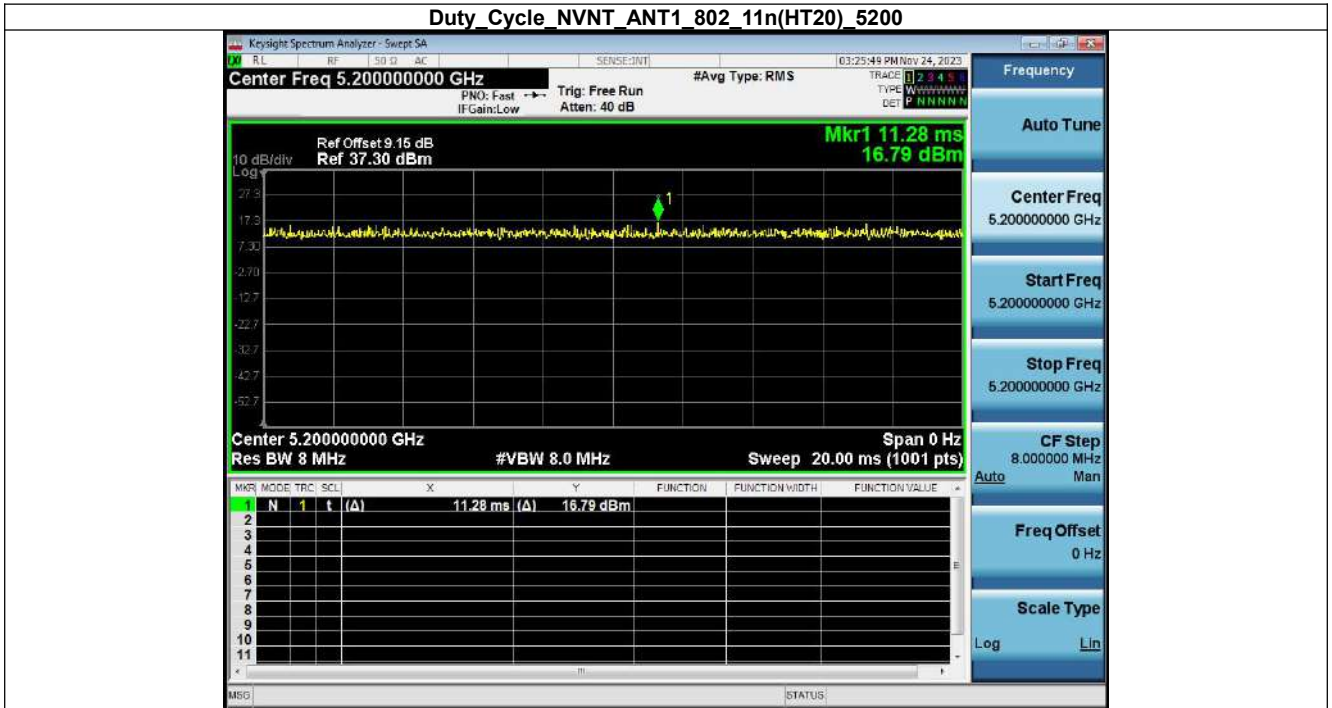
Duty Cycle NVNT ANT1 802\_11a\_5240



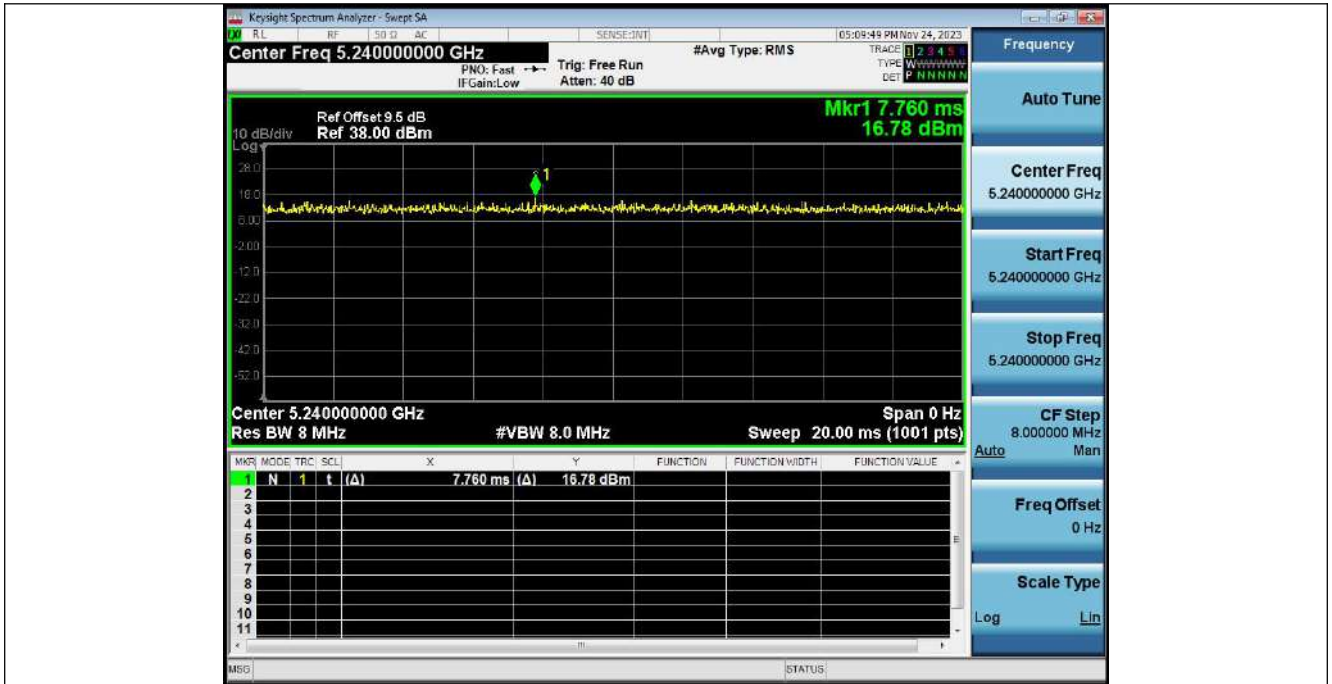
Duty Cycle NVNT ANT1 802\_11n(HT20)\_5180



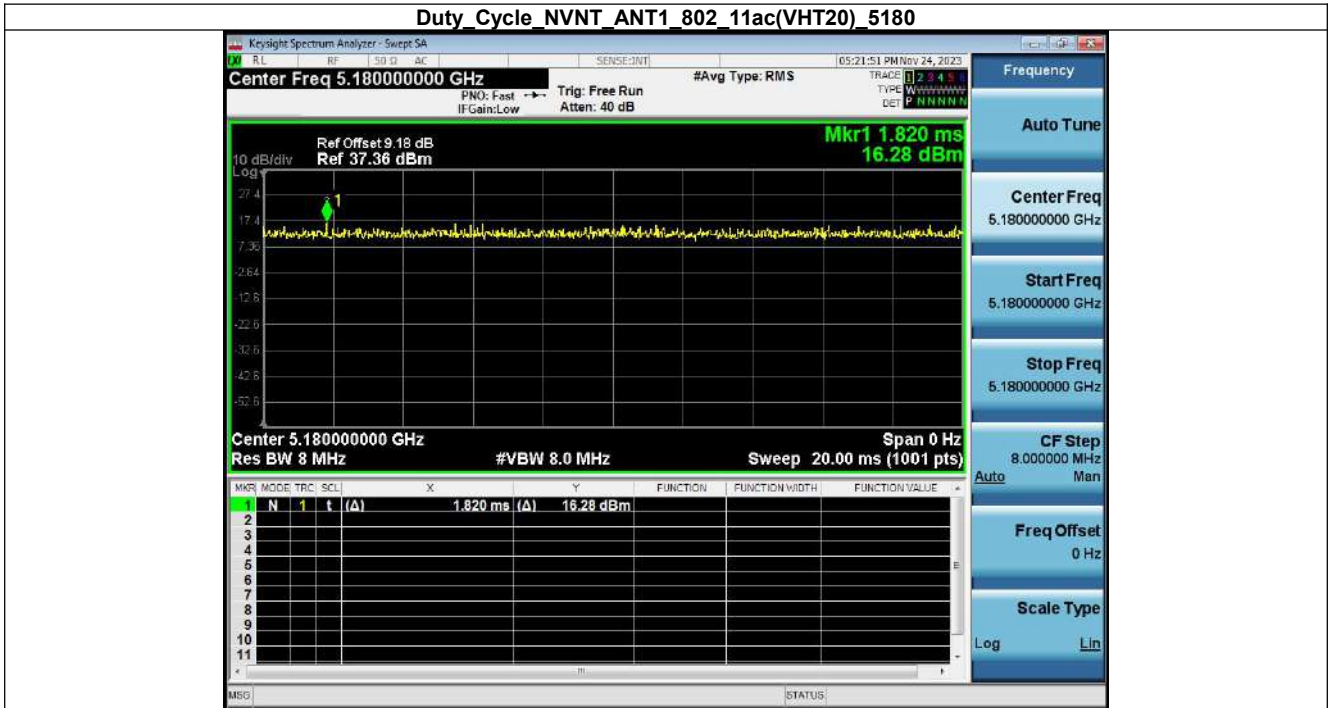
Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_5200



Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_5240

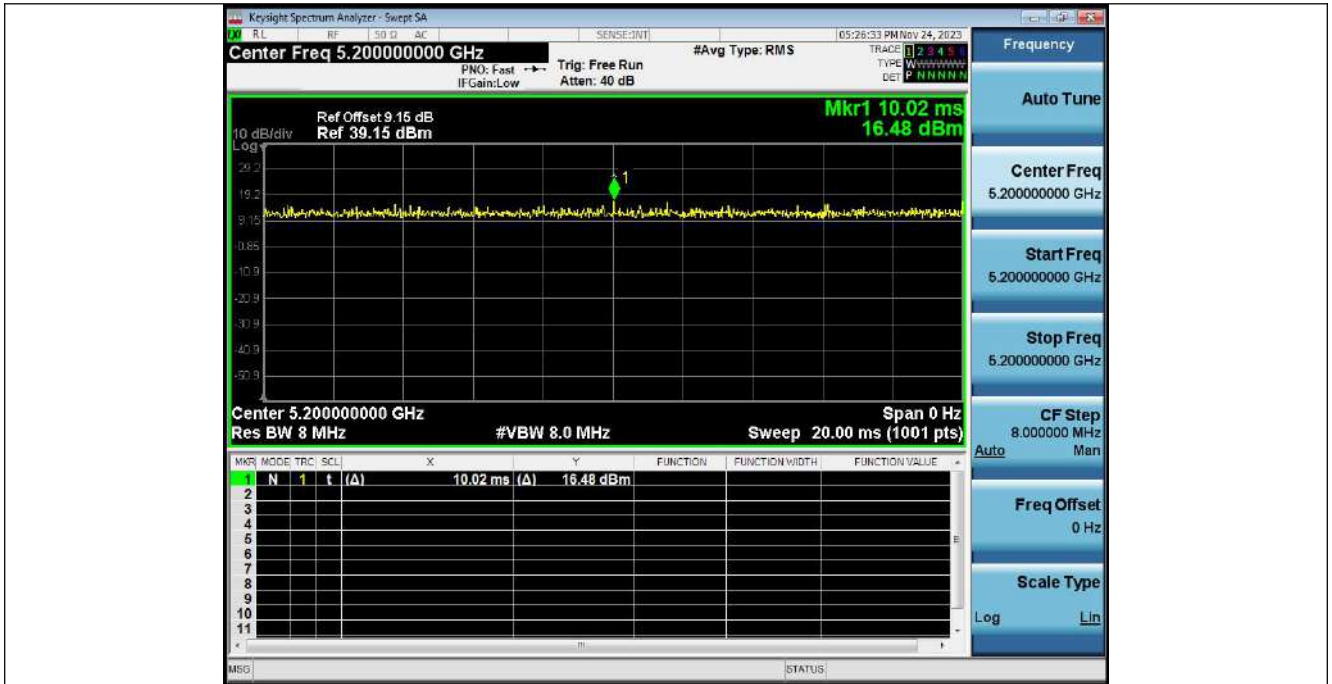


Duty Cycle NVNT\_ANT1\_802\_11ac(VHT20)\_5180

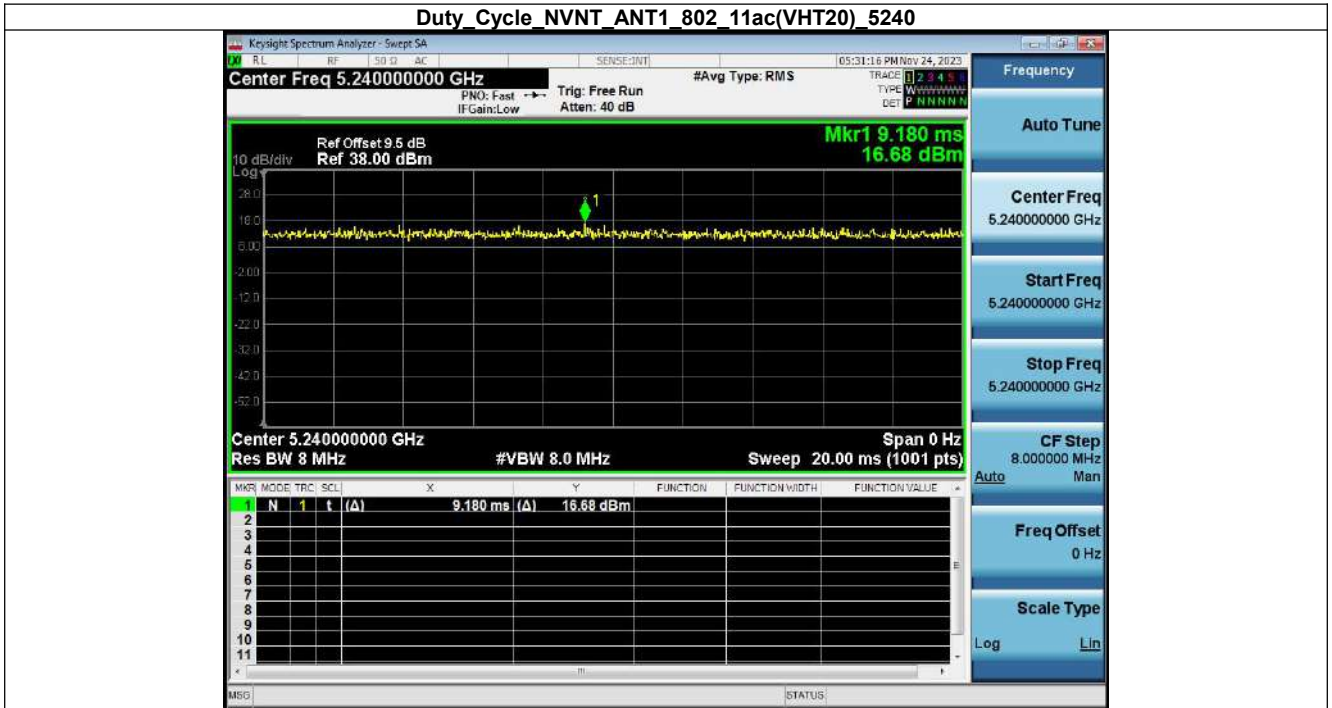


Duty Cycle NVNT\_ANT1\_802\_11ac(VHT20)\_5200

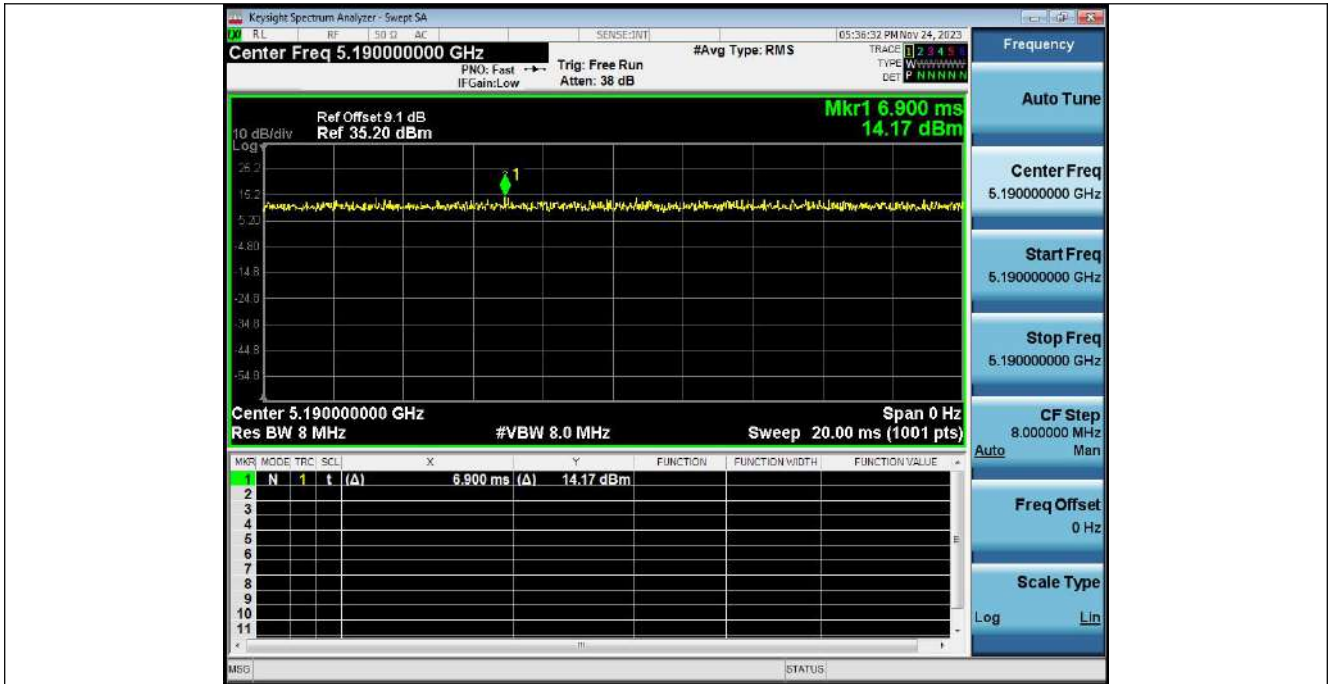




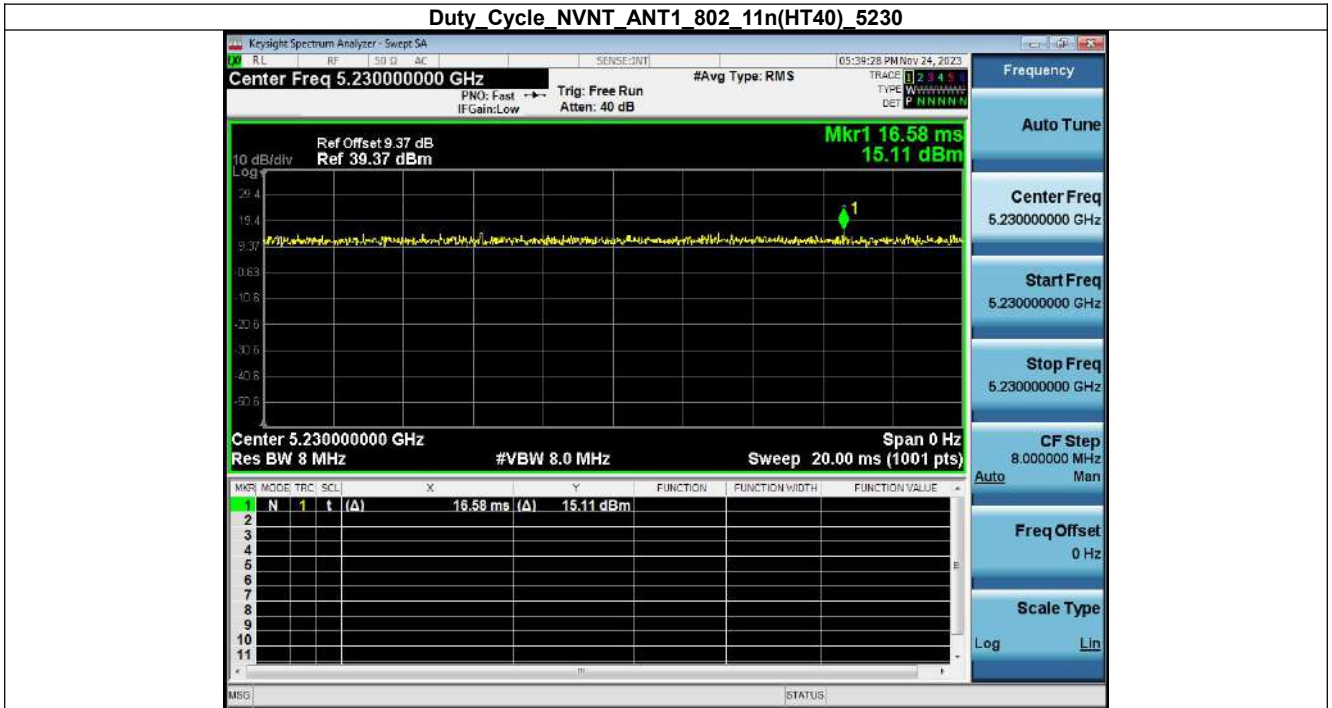
Duty Cycle NVNT ANT1 802\_11ac(VHT20) 5240



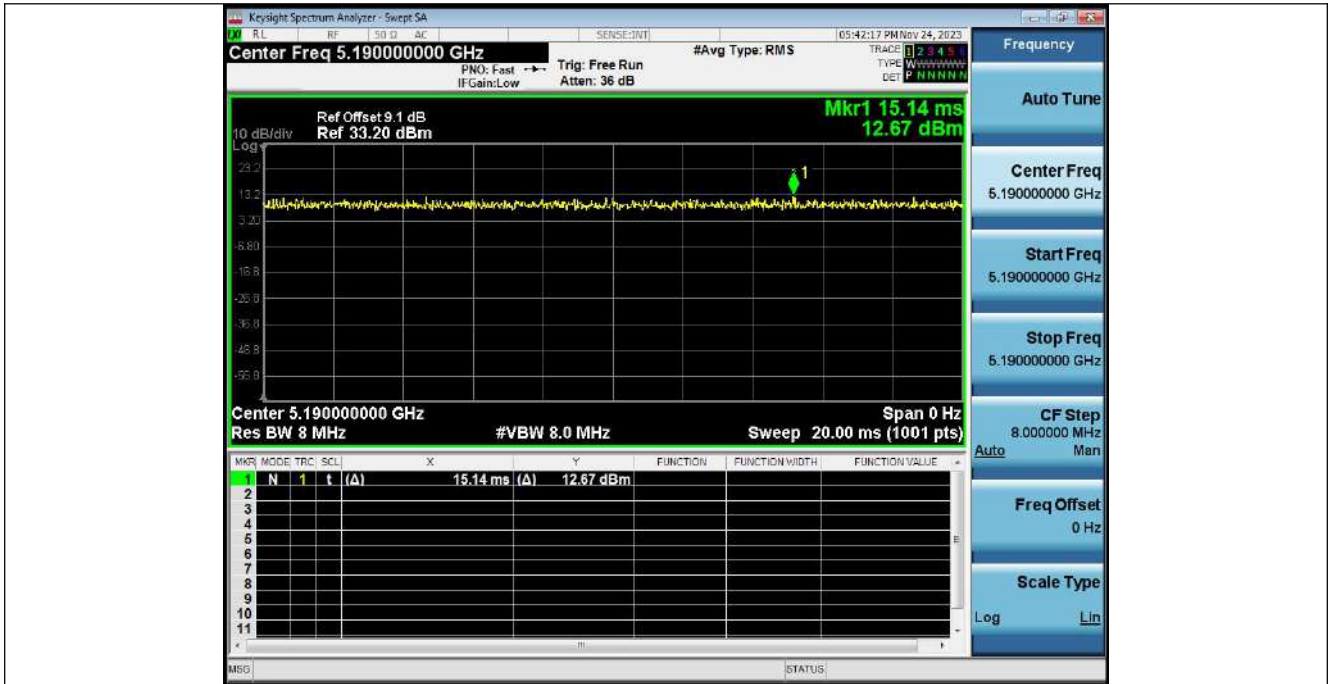
Duty Cycle NVNT ANT1 802\_11n(HT40) 5190



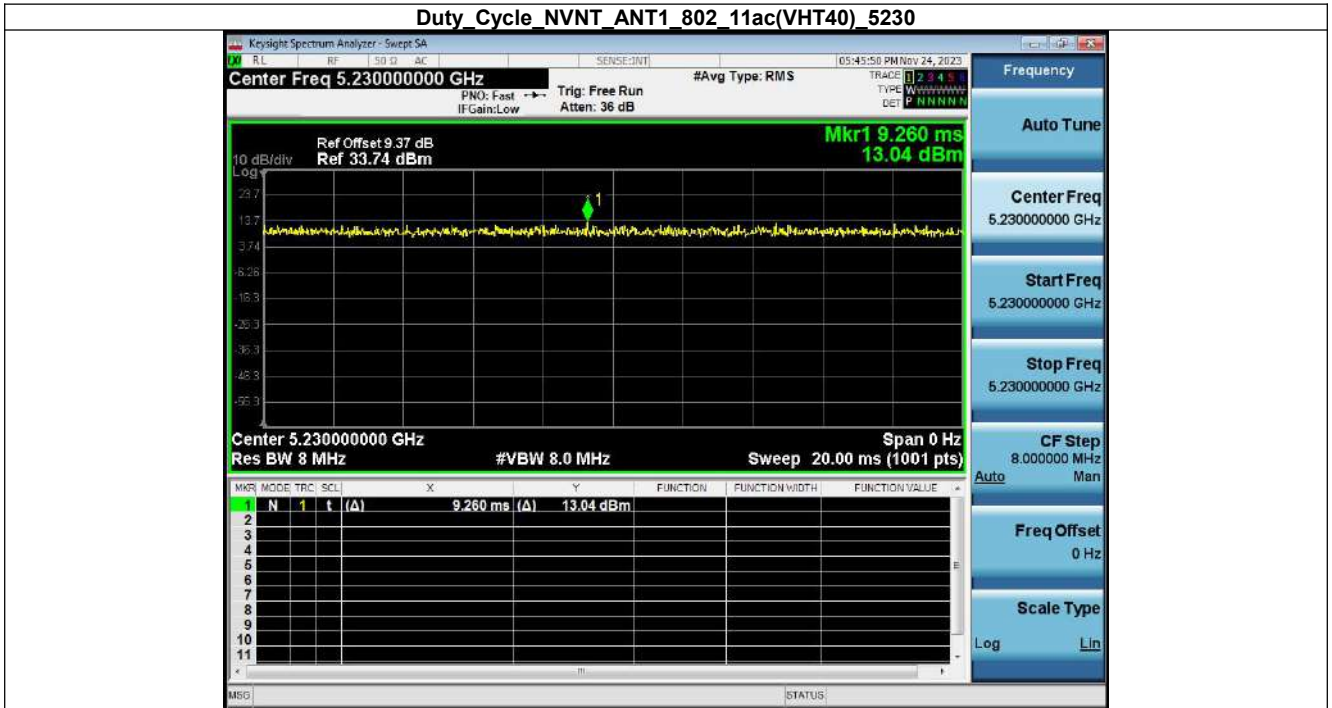
Duty Cycle NVNT\_ANT1\_802\_11n(HT40)\_5230



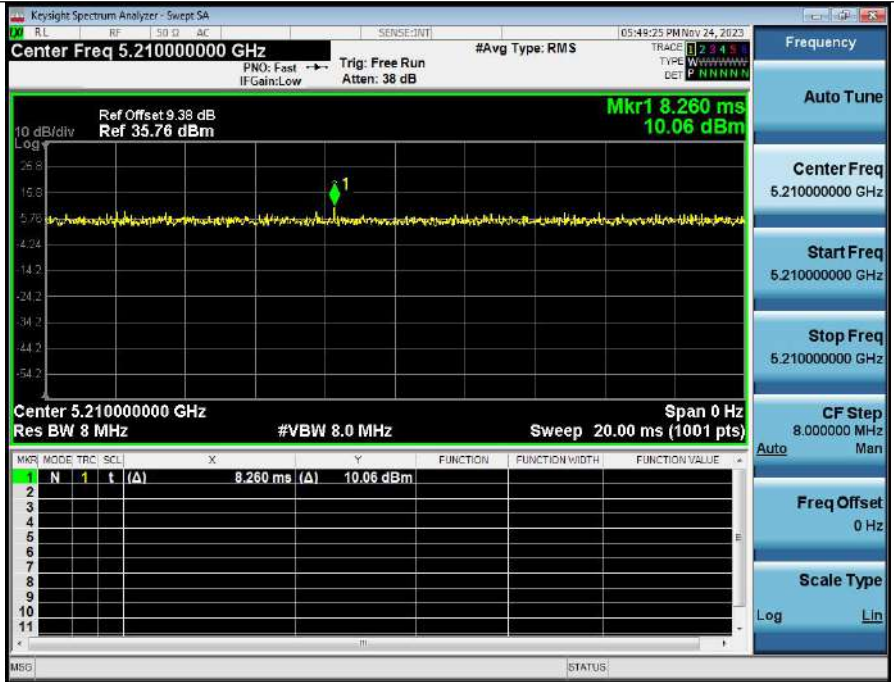
Duty Cycle NVNT\_ANT1\_802\_11ac(VHT40)\_5190



Duty Cycle NVNT\_ANT1\_802\_11ac(VHT40)\_5230



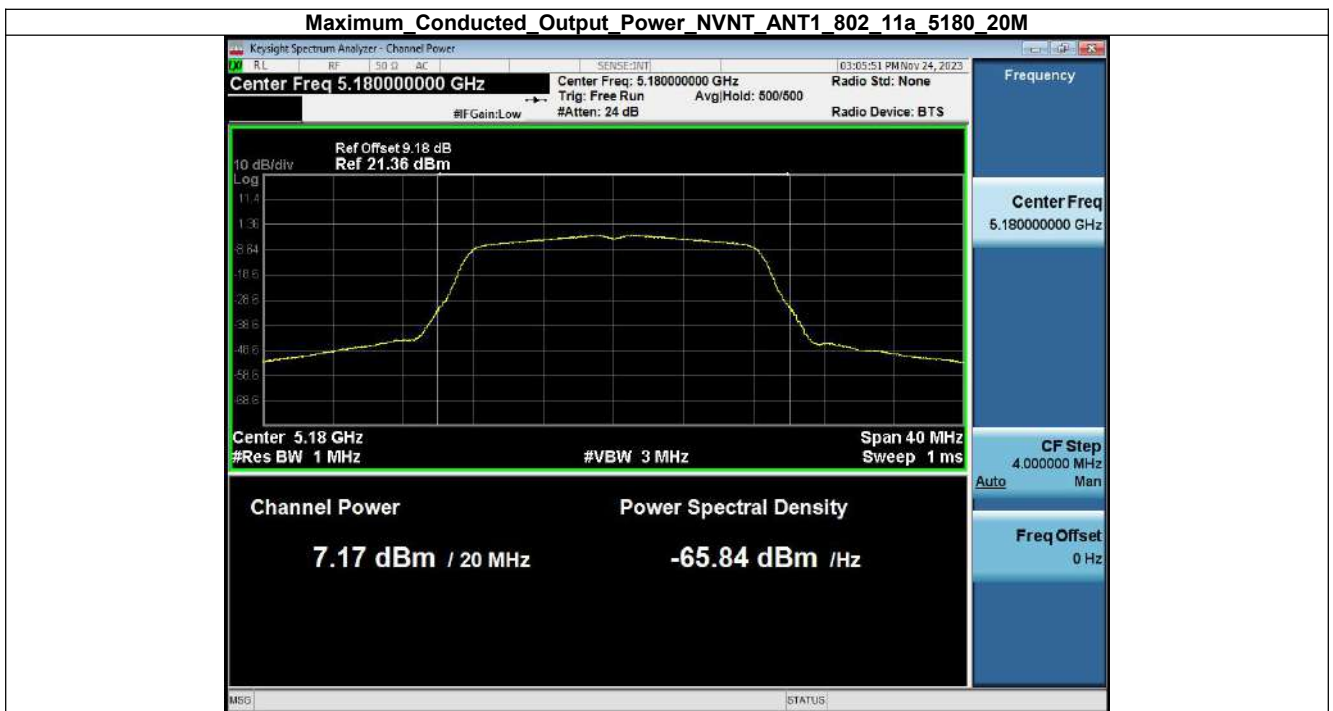
Duty Cycle NVNT\_ANT1\_802\_11ac(VHT80)\_5210



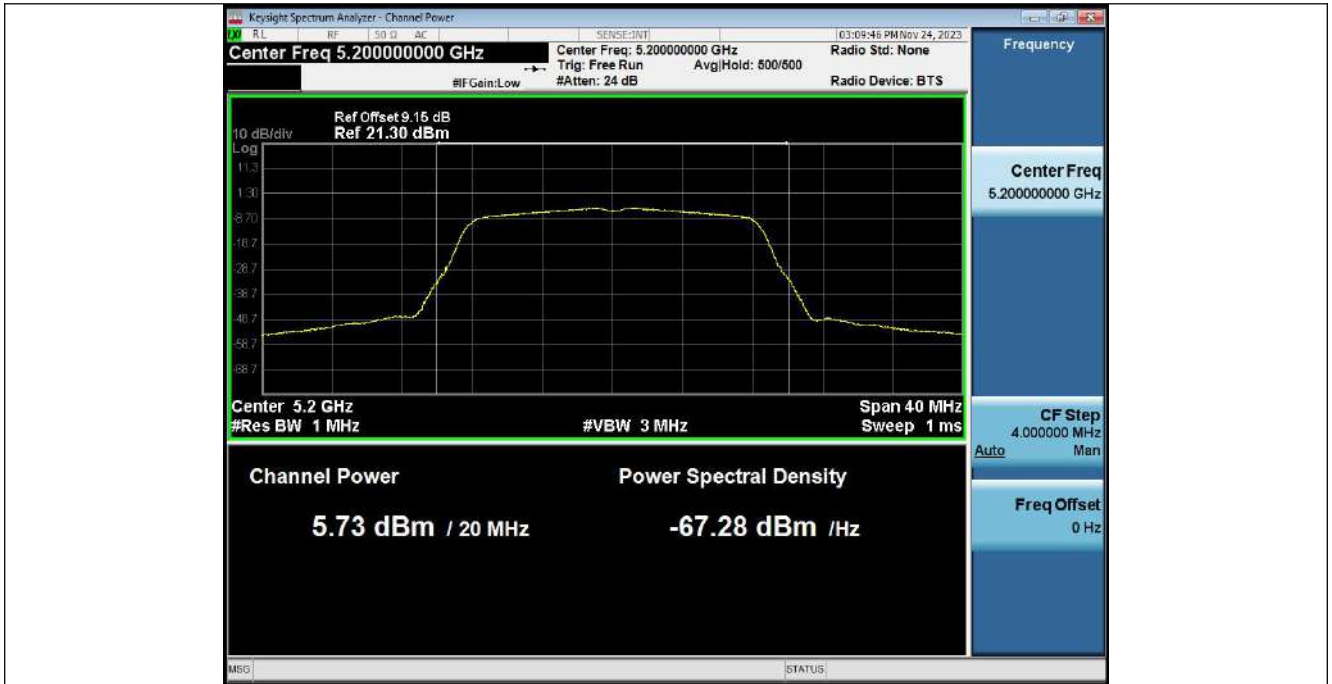
### 3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	7.17	0.00	7.17	24	Pass
NVNT	ANT1	802.11a	5200.00	5.73	0.00	5.73	24	Pass
NVNT	ANT1	802.11a	5240.00	7.26	0.00	7.26	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	7.18	0.00	7.18	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	7.47	0.00	7.47	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	7.49	0.00	7.49	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	7.28	0.00	7.28	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	7.17	0.00	7.17	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	7.29	0.00	7.29	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	6.28	0.00	6.28	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	6.71	0.00	6.71	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	6.96	0.00	6.96	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	7.30	0.00	7.30	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	6.63	0.00	6.63	24	Pass

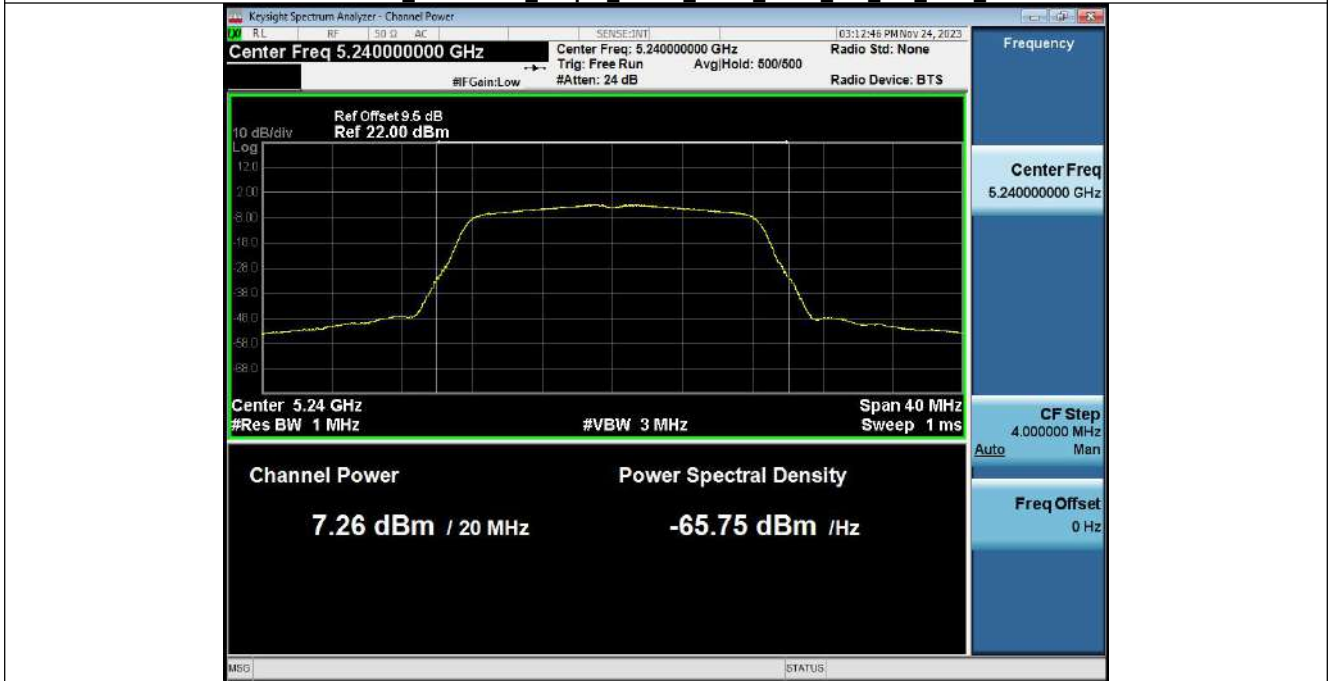
Maximum Conducted Output Power\_NVNT\_ANT1\_802\_11a\_5180\_20M



Maximum Conducted Output Power\_NVNT\_ANT1\_802\_11a\_5200\_20M

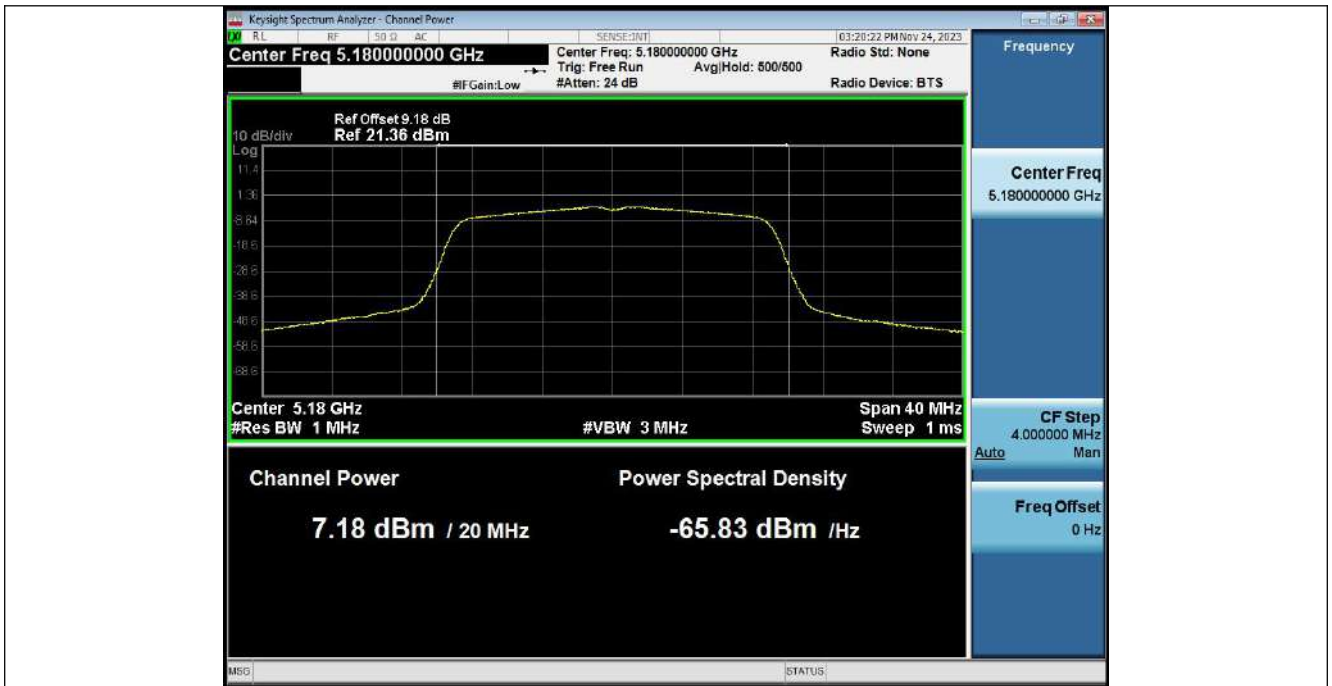


**Maximum Conducted Output Power NVNT\_ANT1\_802\_11a\_5240\_20M**

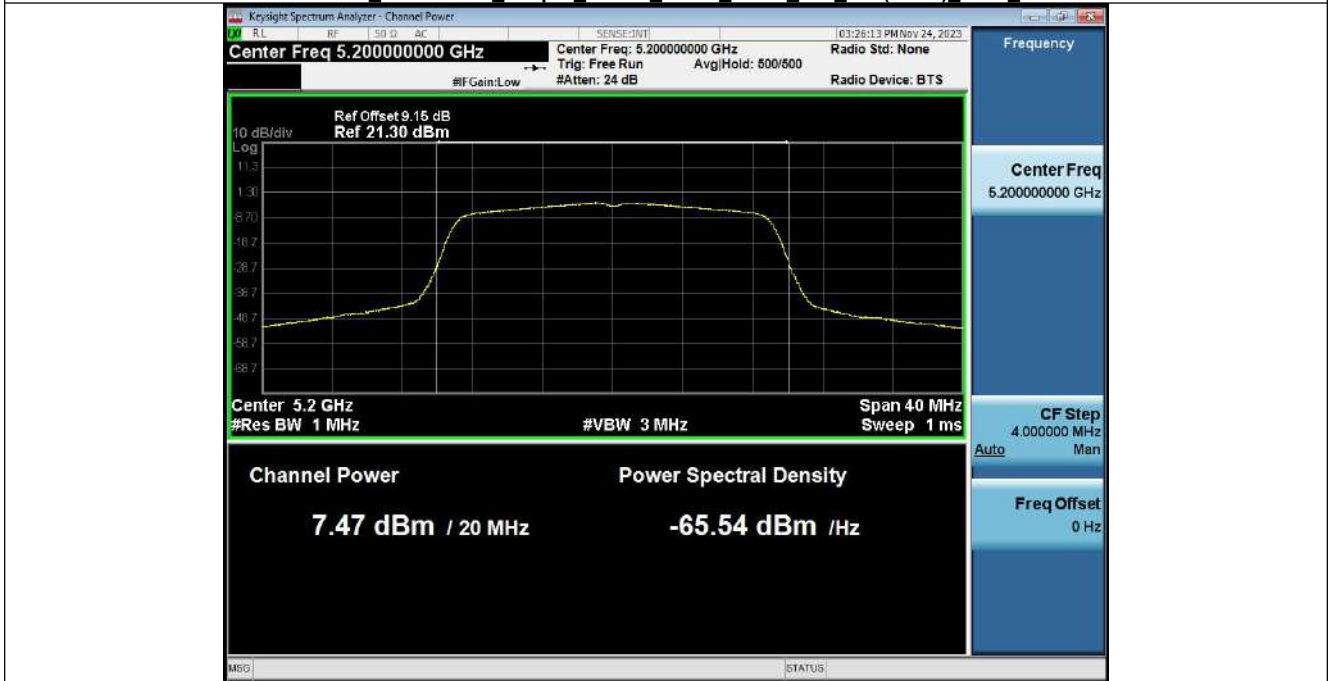


**Maximum Conducted Output Power NVNT\_ANT1\_802\_11n(HT20)\_5180\_20M**

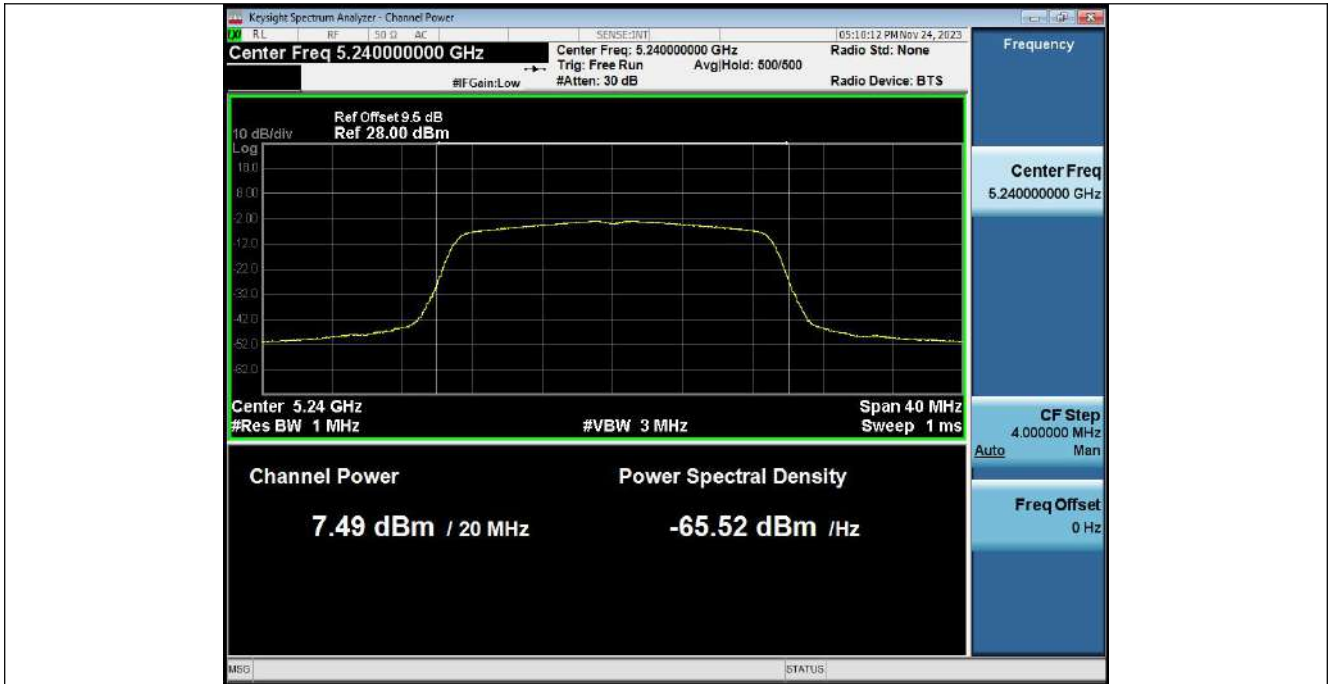




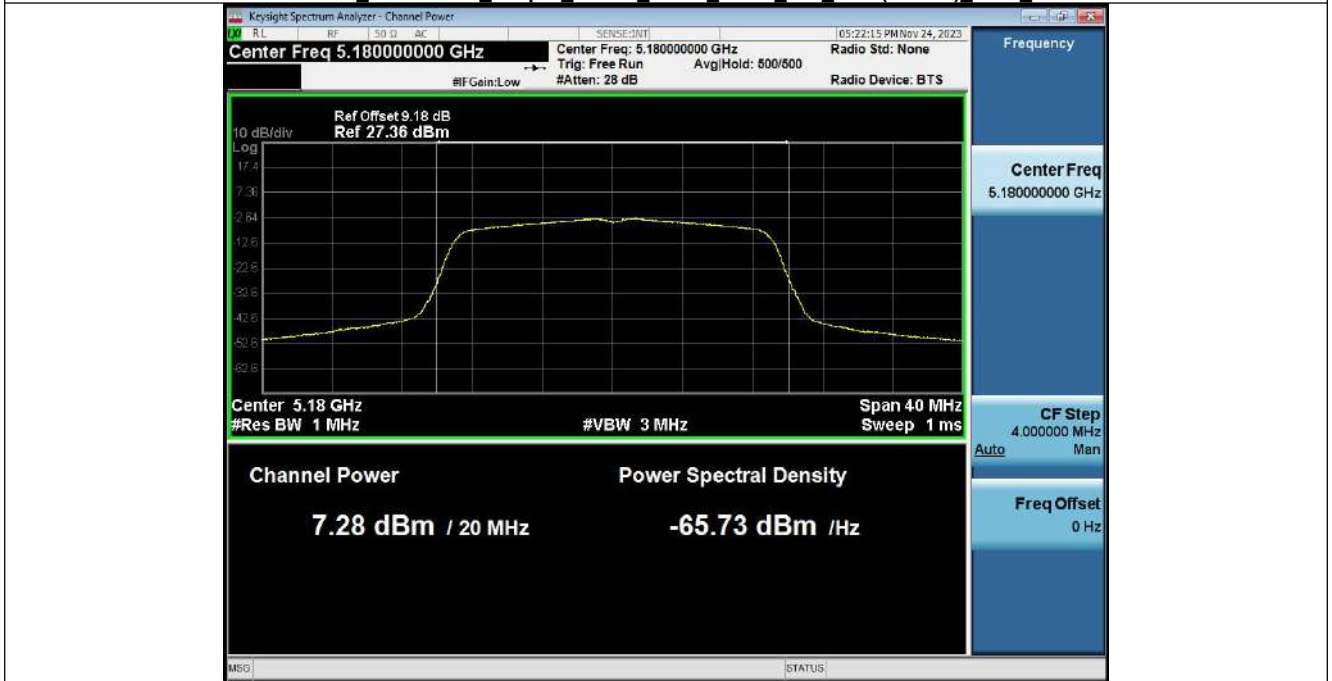
**Maximum Conducted Output Power NVNT\_ANT1\_802\_11n(HT20)\_5200\_20M**



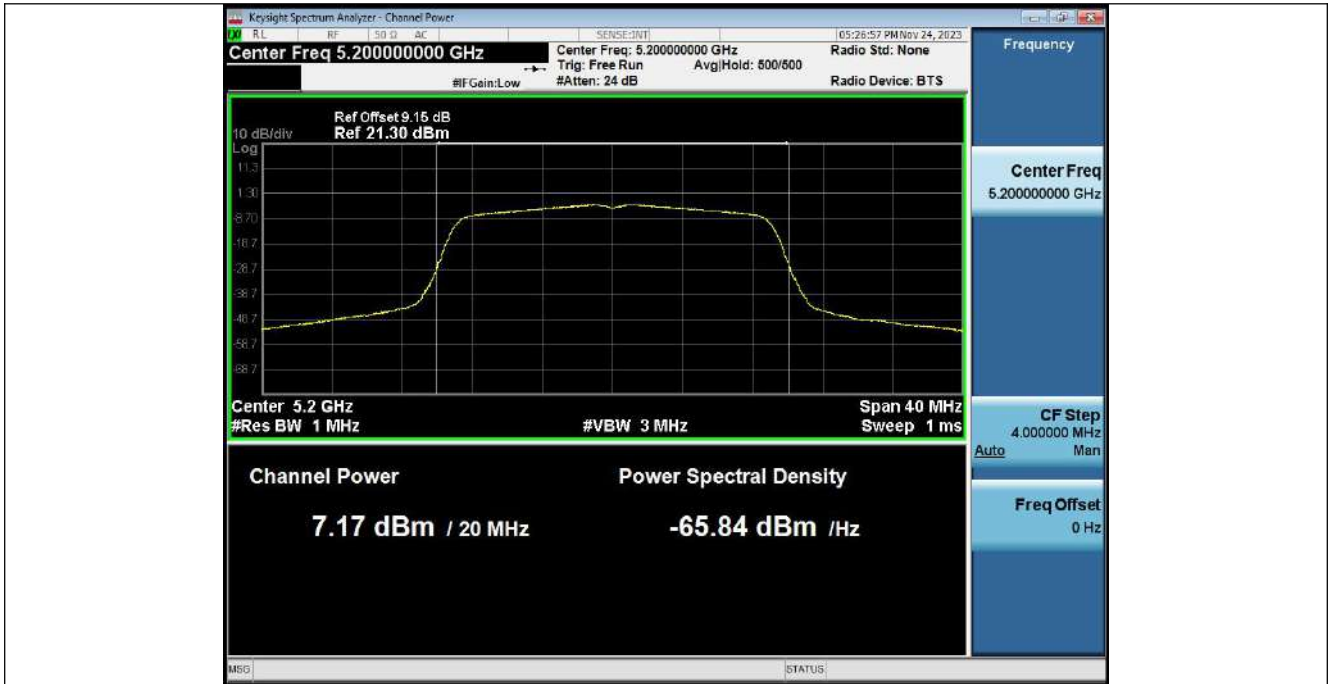
**Maximum Conducted Output Power NVNT\_ANT1\_802\_11n(HT20)\_5240\_20M**



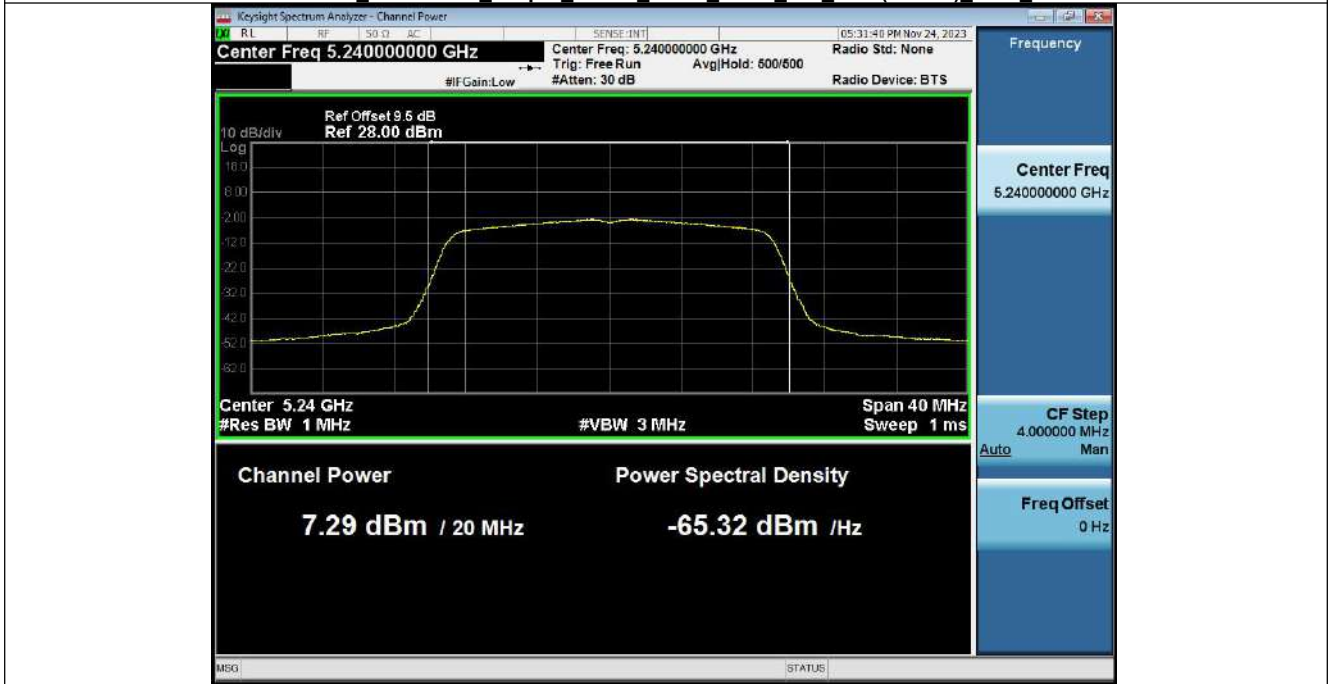
**Maximum Conducted Output Power NVNT\_ANT1\_802\_11ac(VHT20)\_5180\_20M**



**Maximum Conducted Output Power NVNT\_ANT1\_802\_11ac(VHT20)\_5200\_20M**



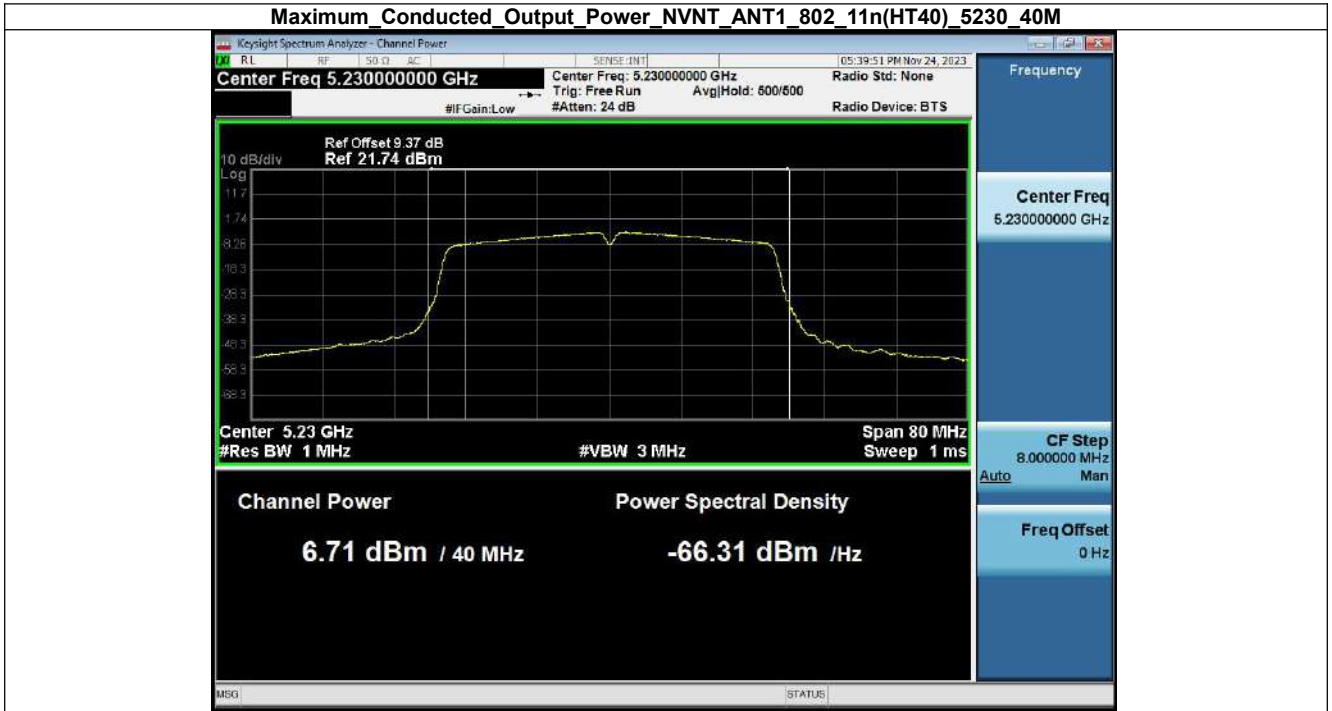
**Maximum Conducted Output Power NVNT\_ANT1\_802\_11ac(VHT20)\_5240\_20M**



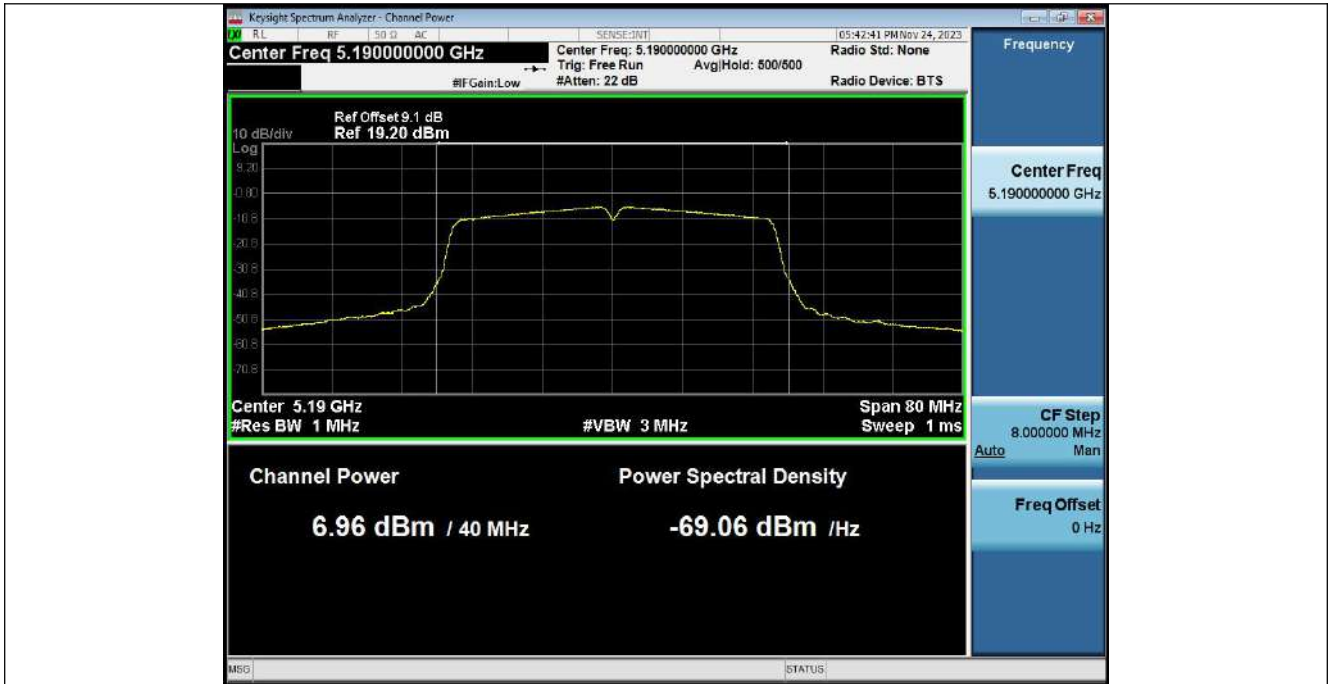
**Maximum Conducted Output Power NVNT\_ANT1\_802\_11n(HT40)\_5190\_40M**



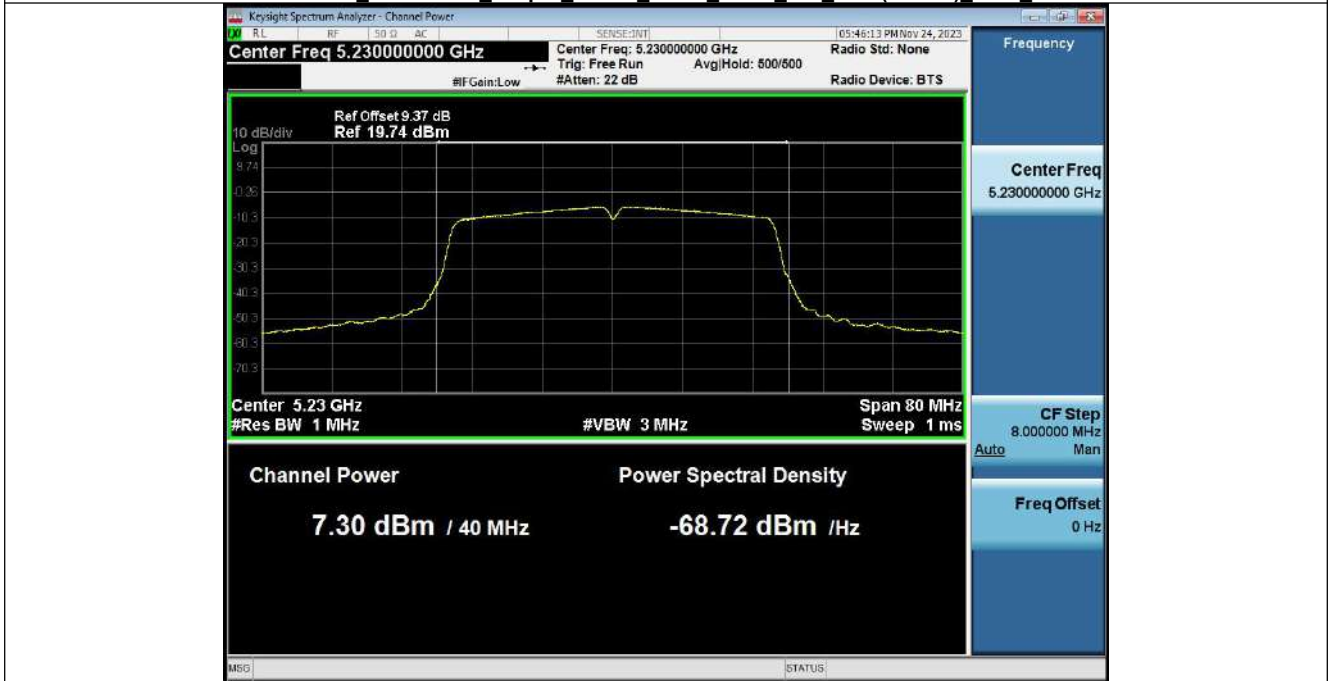
**Maximum Conducted Output Power\_NVNT\_ANT1\_802\_11n(HT40)\_5230\_40M**



**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	-2.98	0.00	-2.98	11	Pass
NVNT	ANT1	802.11a	5200.00	-4.38	0.00	-4.38	11	Pass
NVNT	ANT1	802.11a	5240.00	-2.80	0.00	-2.80	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-2.91	0.00	-2.91	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-2.81	0.00	-2.81	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-2.73	0.00	-2.73	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-3.22	0.00	-3.22	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-3.41	0.00	-3.41	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-2.47	0.00	-2.47	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-4.82	0.00	-4.82	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-3.35	0.00	-3.35	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-6.13	0.00	-6.13	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-5.87	0.00	-5.87	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-10.53	0.00	-10.53	11	Pass



**Power Spectral Density\_NVNT\_ANT1\_802\_11a\_5200**



Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11a\_5240



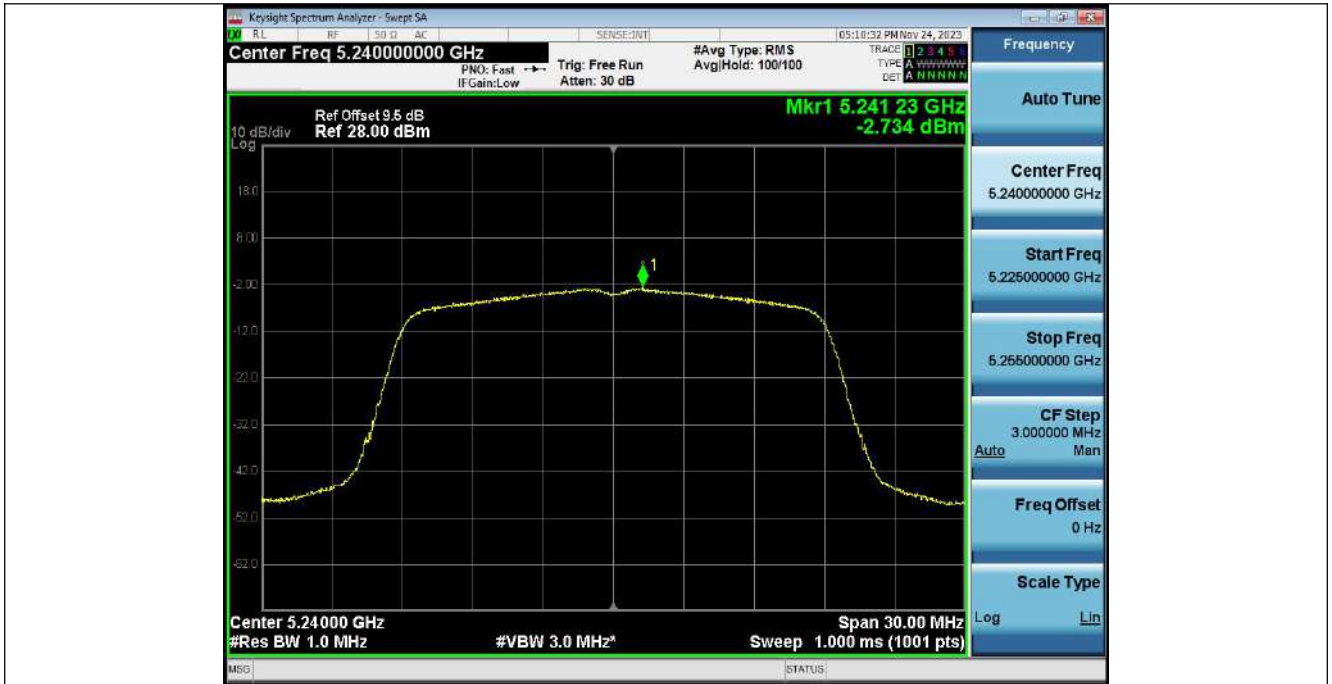
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11n(HT20)\_5180



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\_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

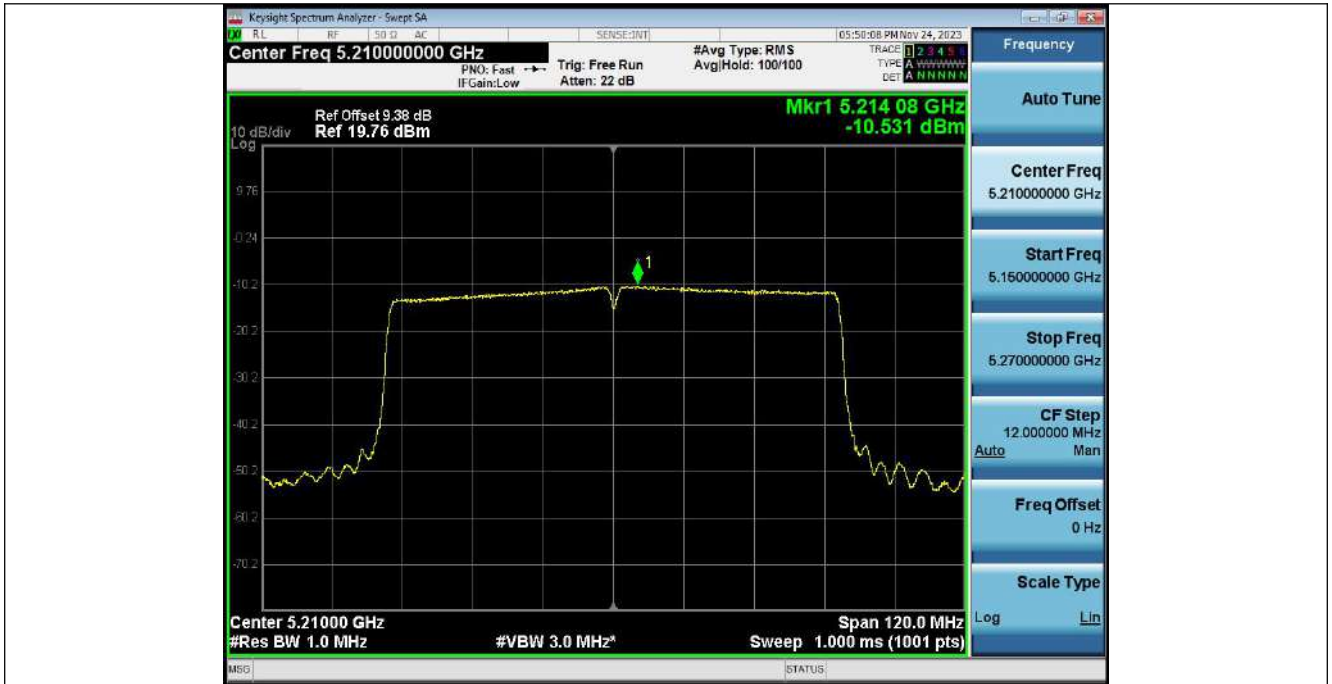




Power Spectral Density\_NVNT\_ANT1\_802\_11ac(VHT40)\_5230



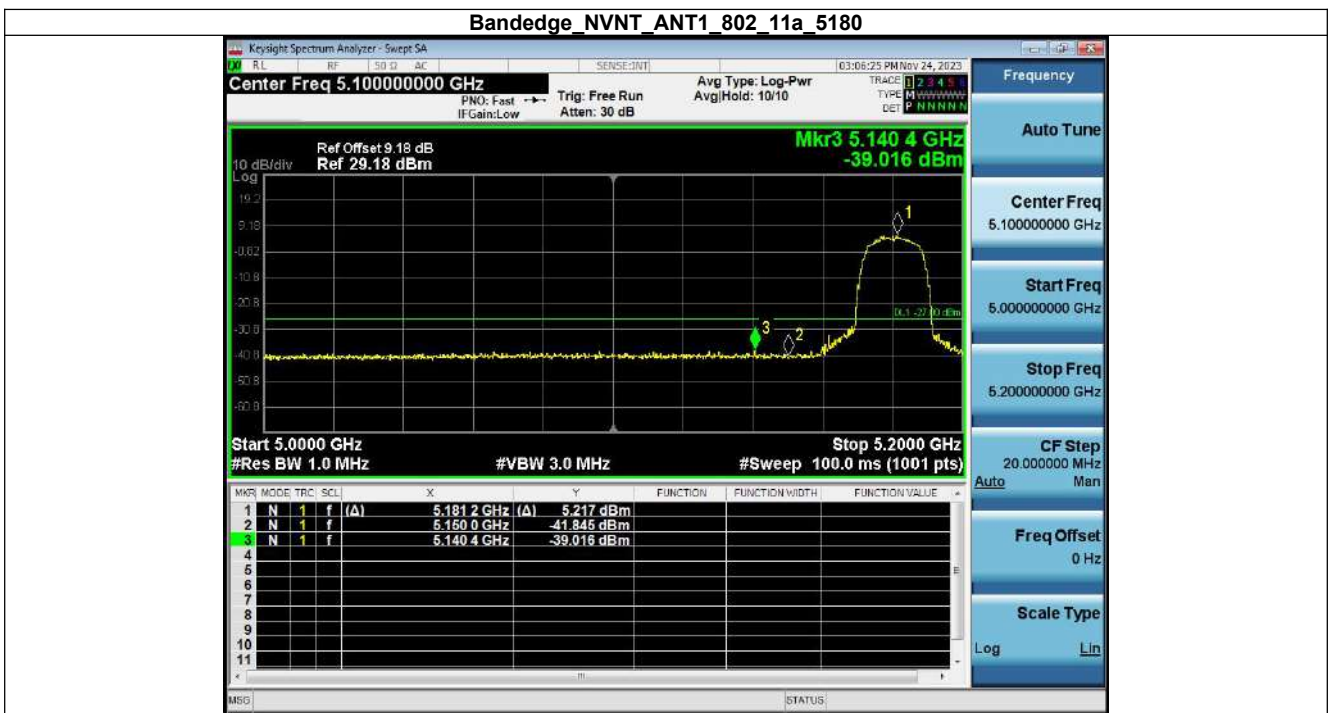
Power Spectral Density\_NVNT\_ANT1\_802\_11ac(VHT80)\_5210



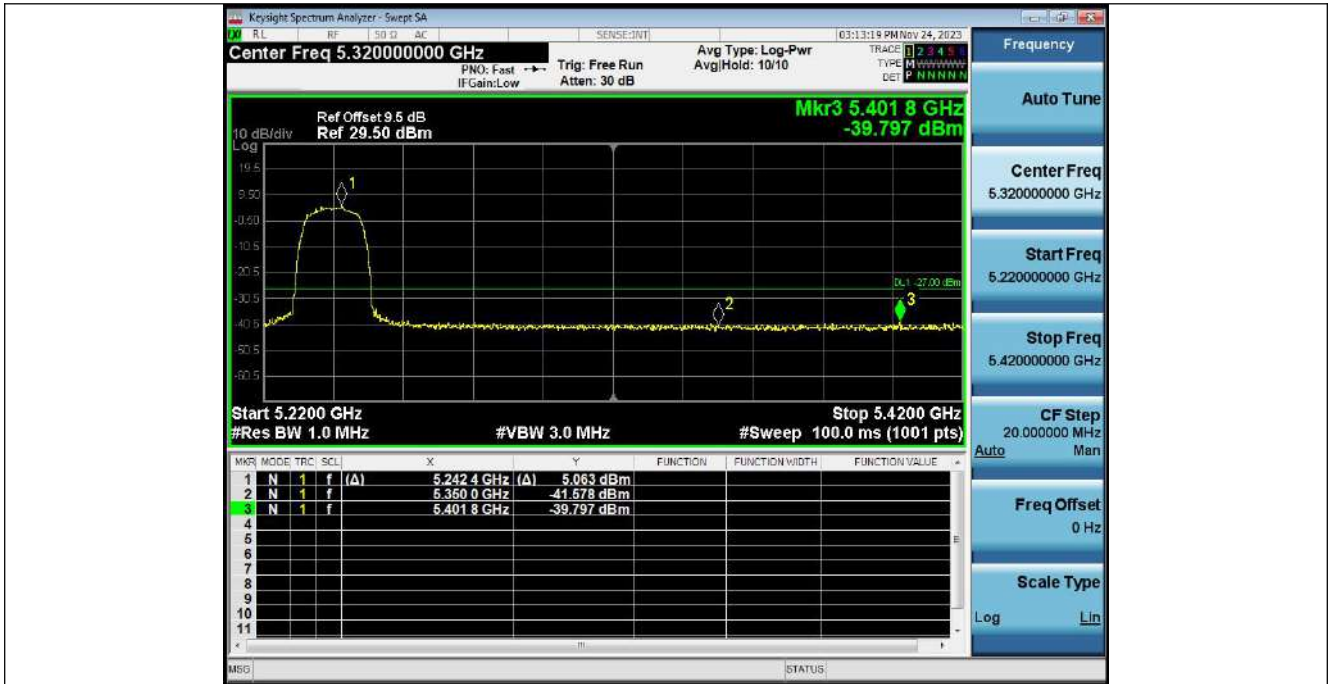
## 5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5140.40	-39.02	-27	Pass
NVNT	ANT1	802.11a	5240.00	5401.80	-39.80	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5086.00	-39.41	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5405.80	-39.88	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5129.40	-38.88	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5408.40	-39.91	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5148.05	-38.49	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5383.46	-39.63	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5145.95	-39.17	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5413.28	-40.14	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5133.98	-37.99	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5367.50	-40.00	-27	Pass

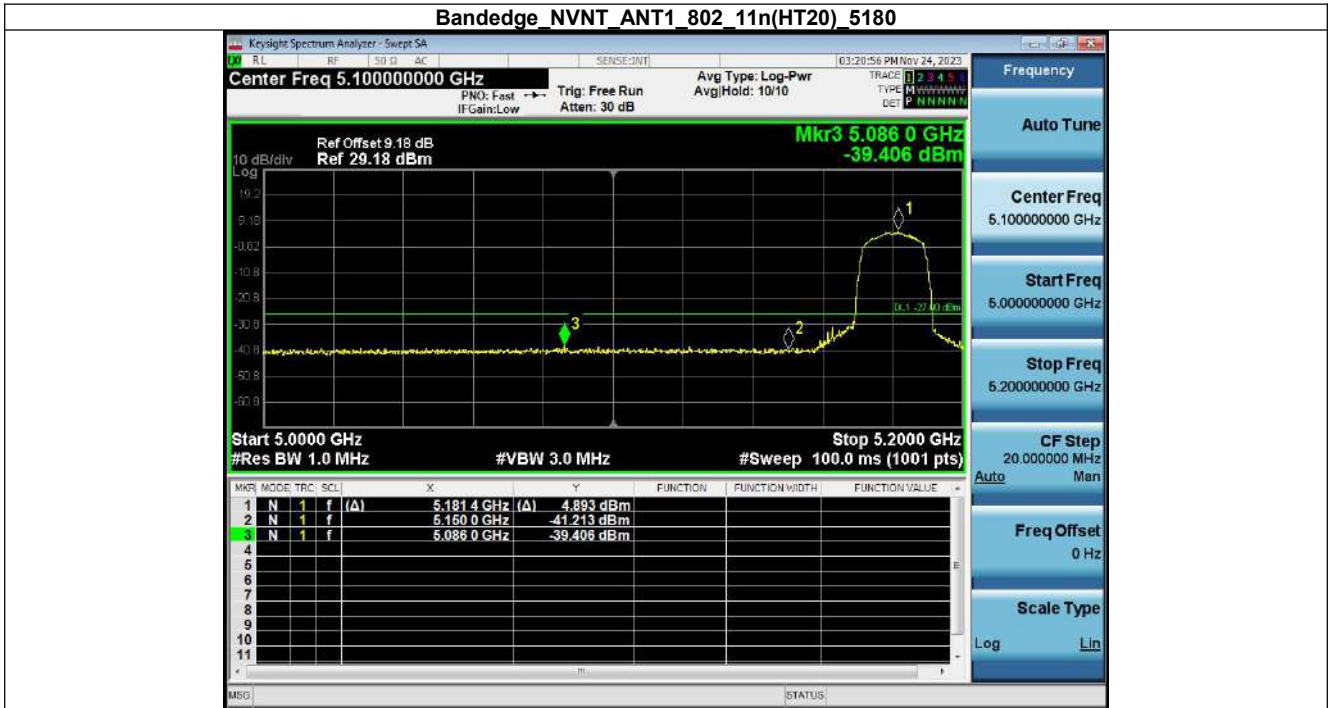
Reamrk: Antenna gain is covered in the test.



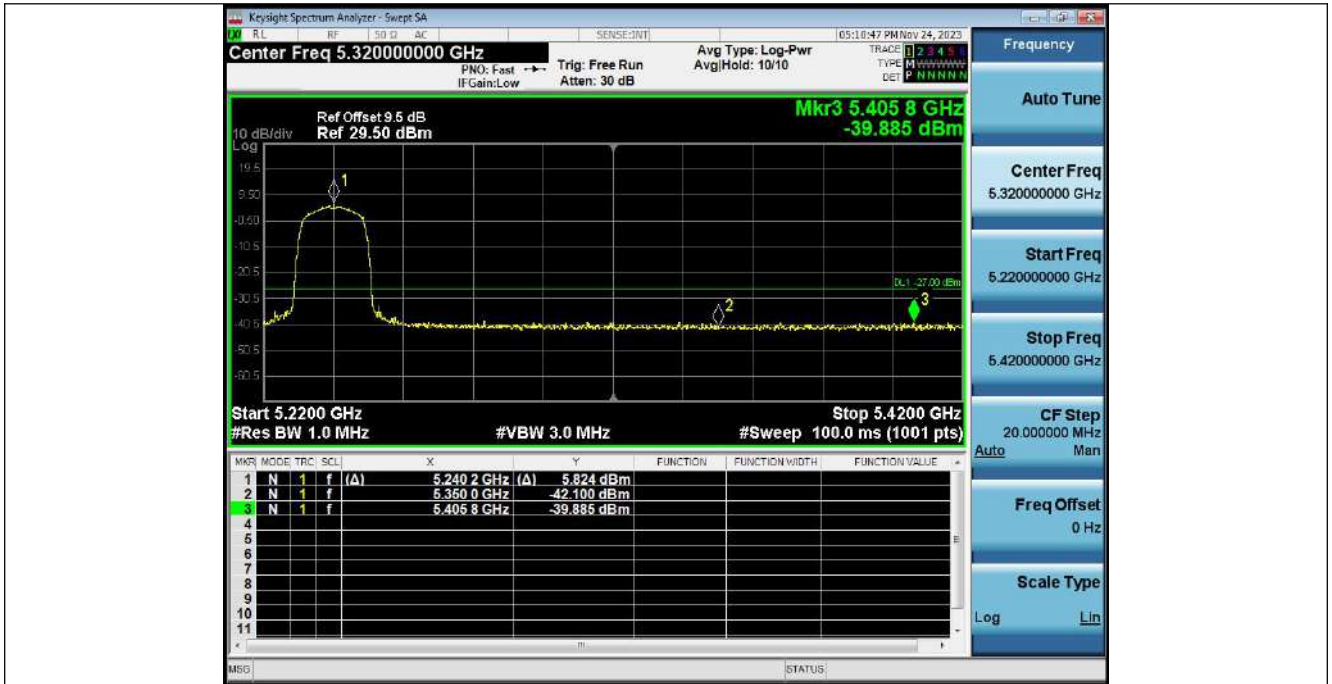
**Bandedge\_NVNT\_ANT1\_802\_11a\_5240**



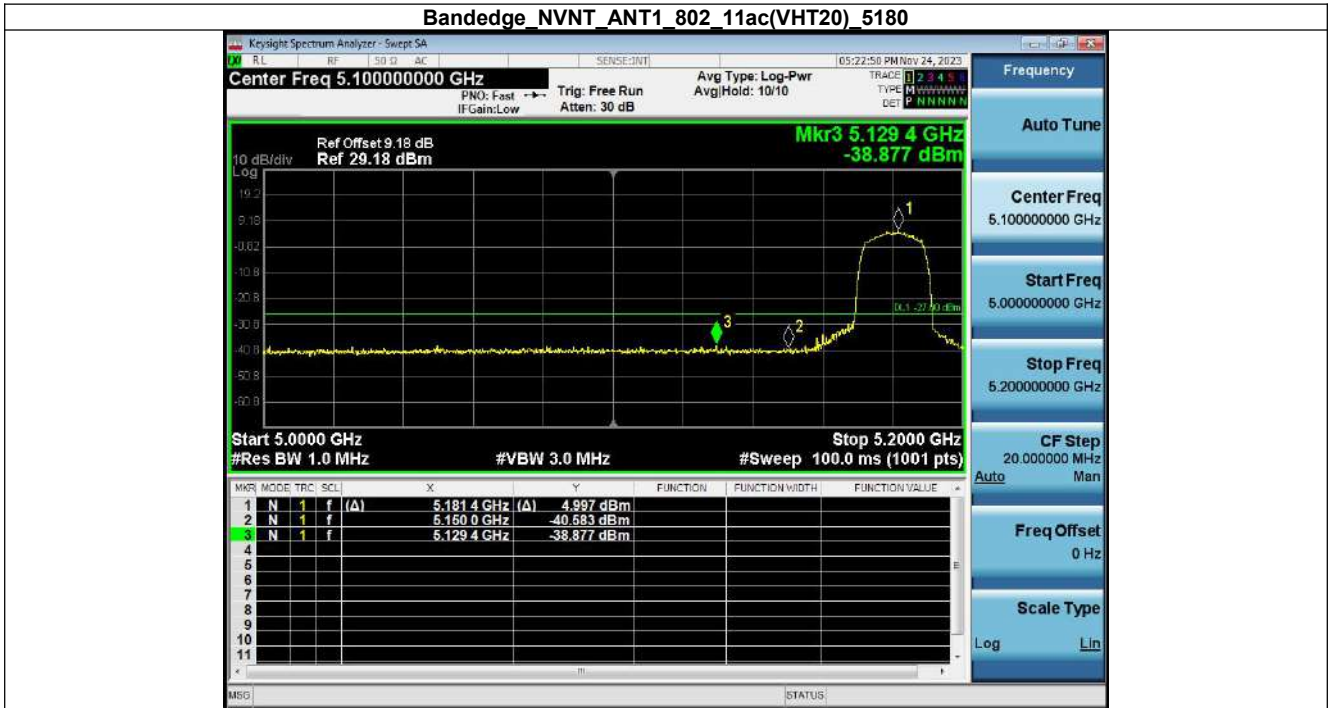
Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_5180



Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_5240

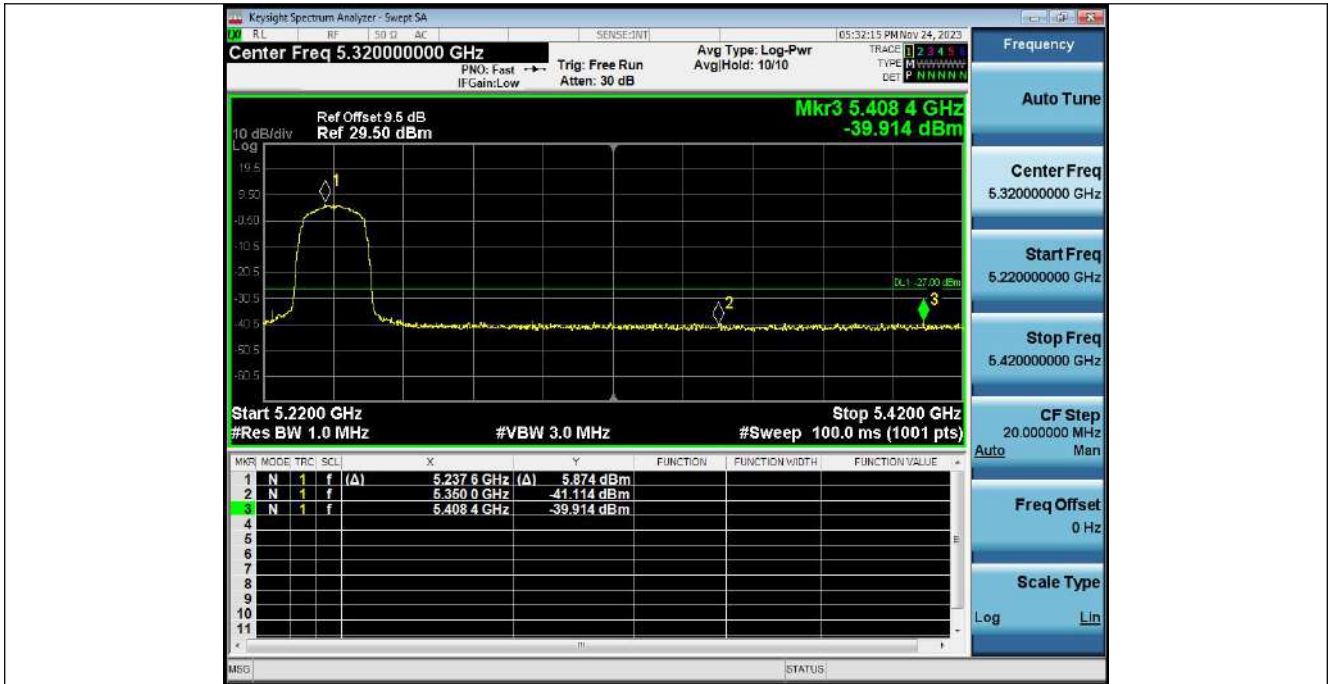


**Bandedge\_NVNT\_ANT1\_802\_11ac(VHT20)\_5180**

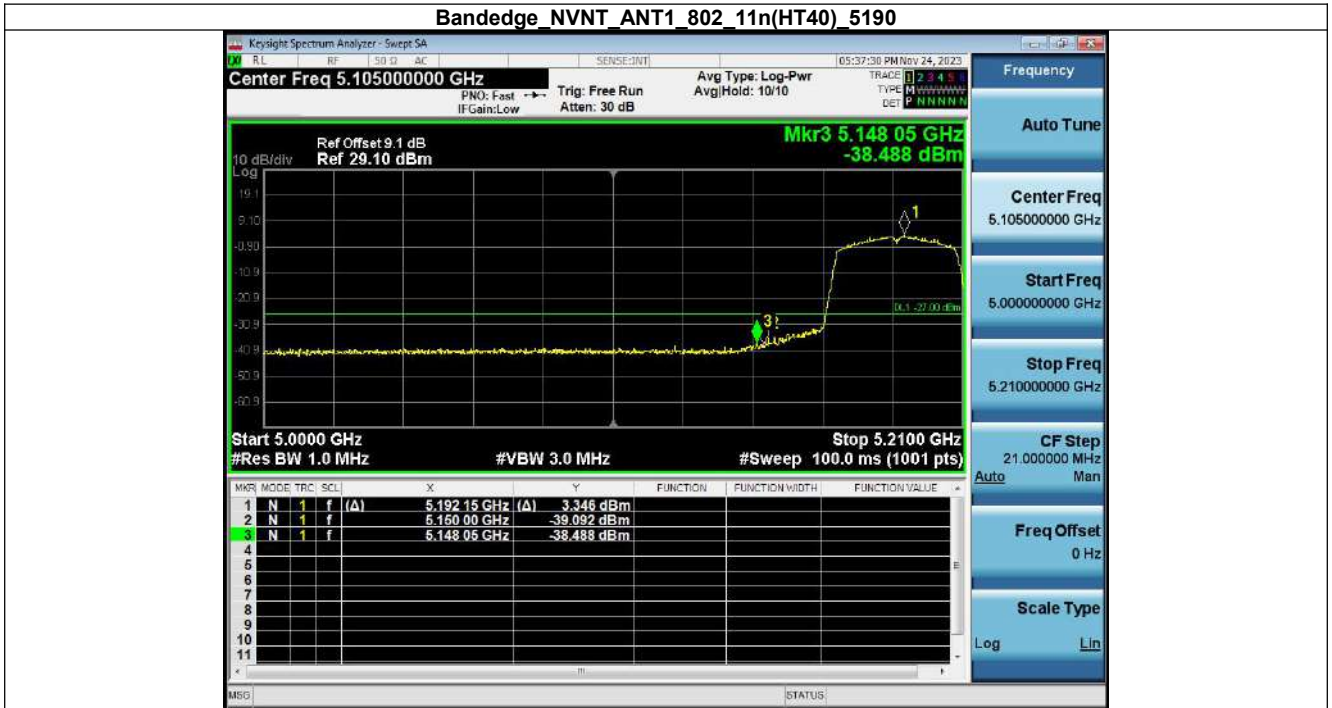


**Bandedge\_NVNT\_ANT1\_802\_11ac(VHT20)\_5240**





Bandedge\_NVNT\_ANT1\_802\_11n(HT40)\_5190

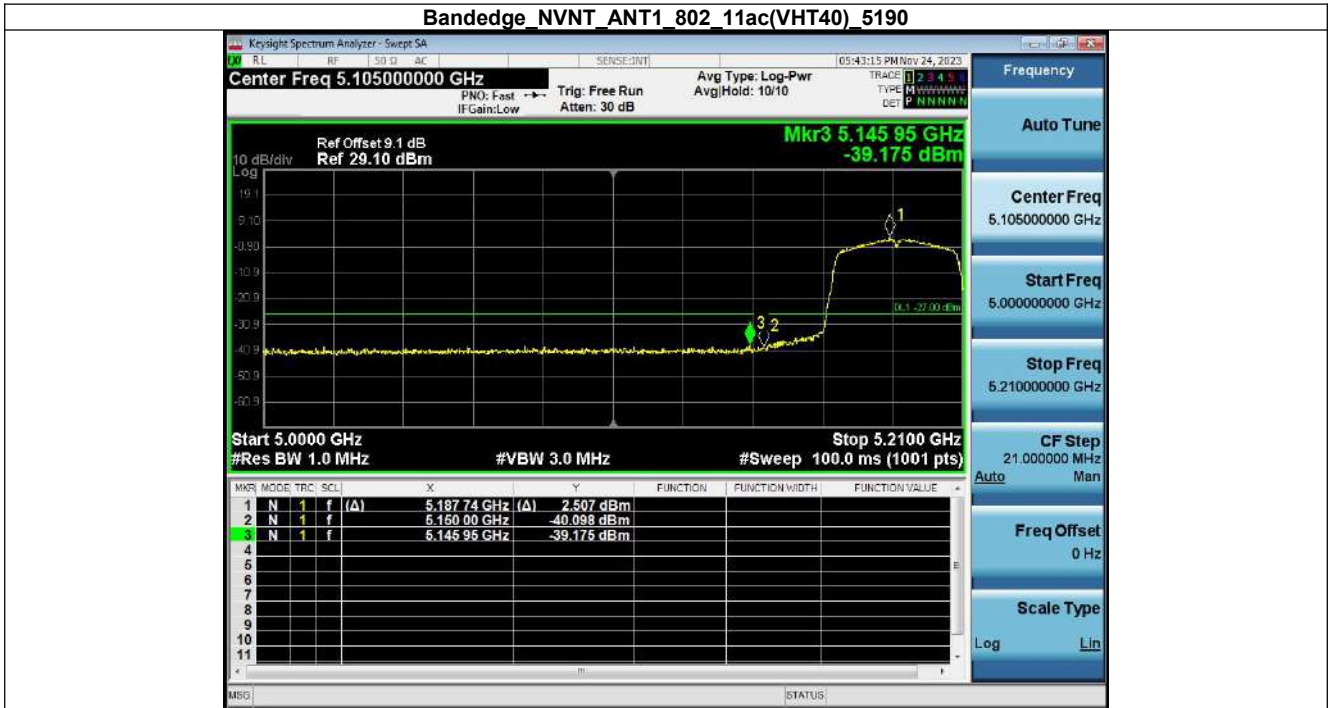


Bandedge\_NVNT\_ANT1\_802\_11n(HT40)\_5230





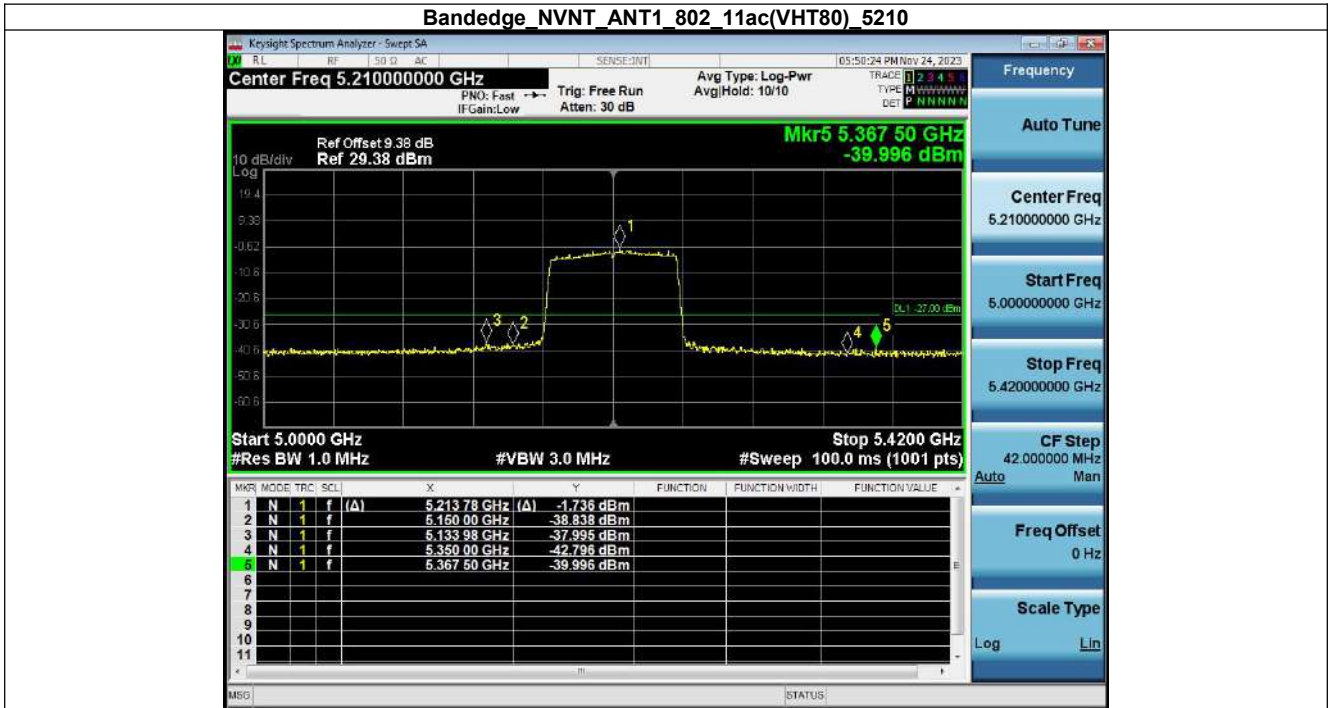
Bandedge\_NVNT\_ANT1\_802\_11ac(VHT40)\_5190



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)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	24911.80	-30.02	-27	Pass
NVNT	ANT1	802.11a	5200.00	25732.37	-30.23	-27	Pass
NVNT	ANT1	802.11a	5240.00	24911.80	-29.66	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	24938.27	-30.01	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	25097.09	-30.19	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	24991.21	-29.95	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	24991.21	-29.96	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	24991.21	-28.82	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	25017.68	-29.62	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	25705.90	-30.25	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	24911.80	-29.93	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	24964.74	-30.19	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	25732.37	-29.68	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	24991.21	-29.34	-27	Pass

Spurious Emission NVNT ANT1 802\_11a 5180 20M



Spurious Emission NVNT ANT1 802\_11a 5200 20M

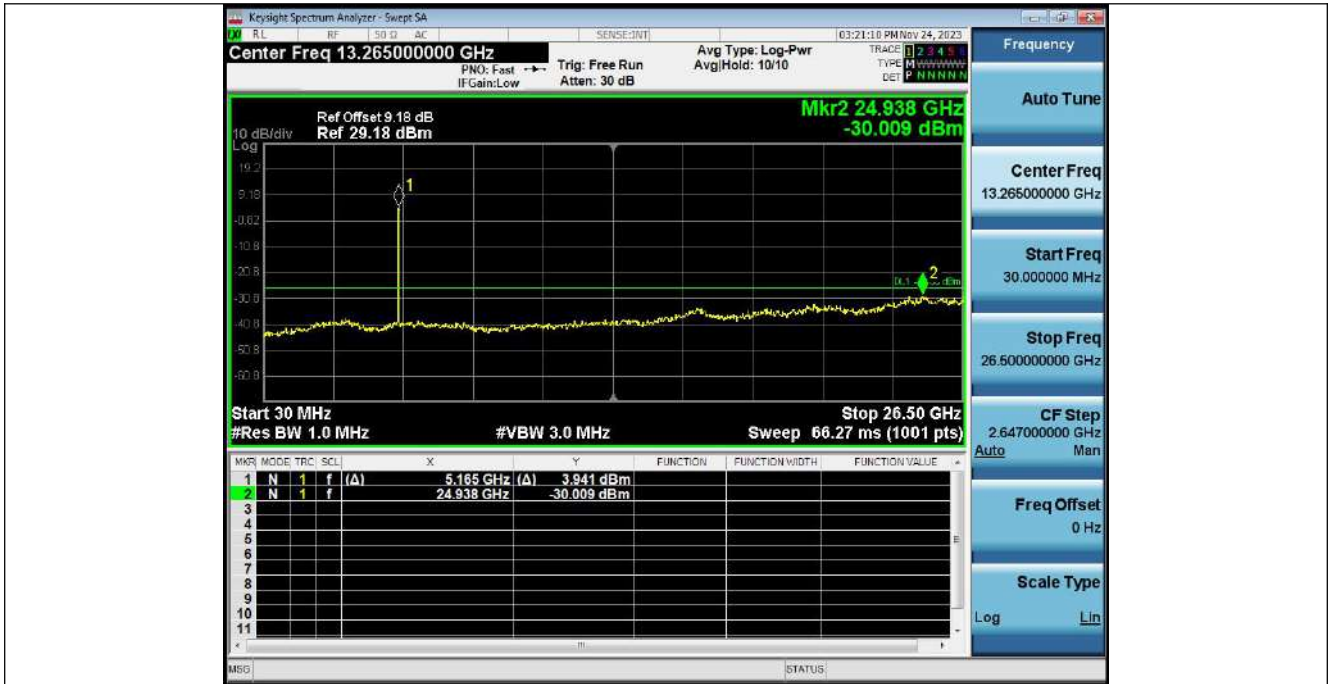


**Spurious Emission NVNT ANT1 802\_11a 5240 20M**



**Spurious Emission NVNT ANT1 802\_11n(HT20) 5180 20M**





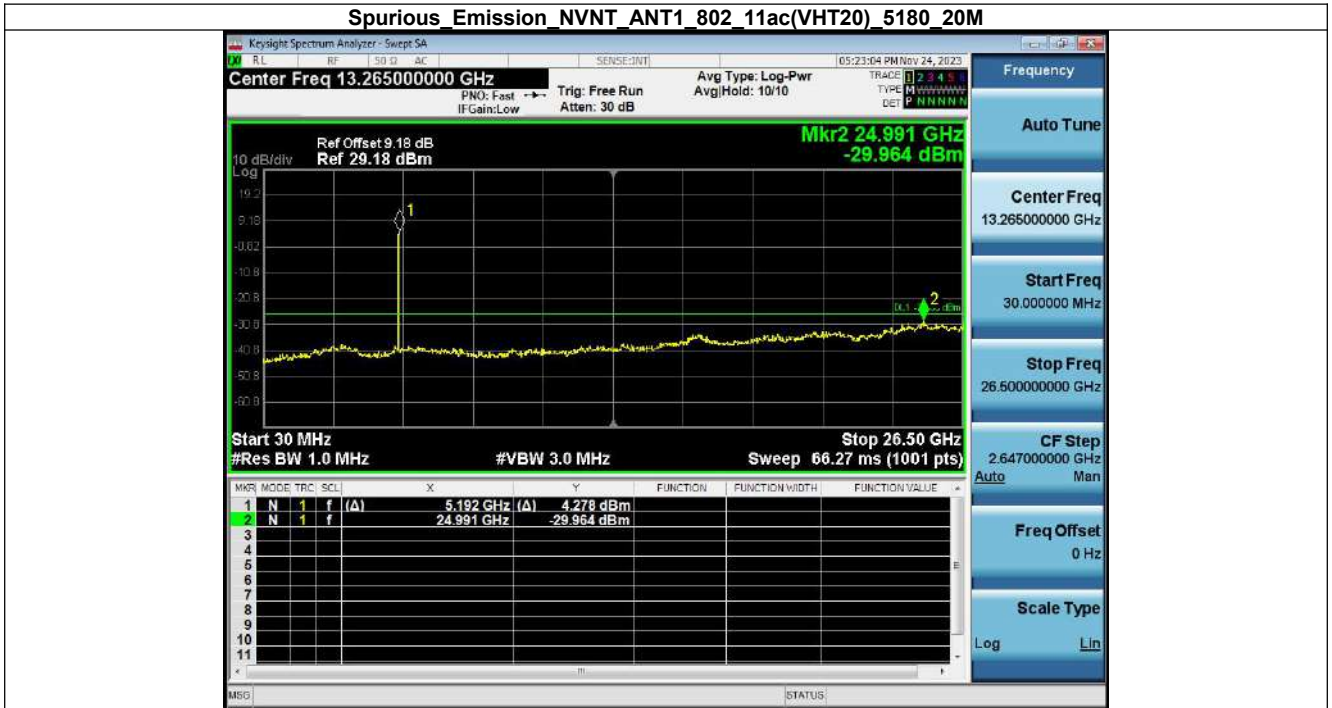
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**Spurious Emission\_NVNT\_ANT1\_802\_11n(HT20)\_5240\_20M**

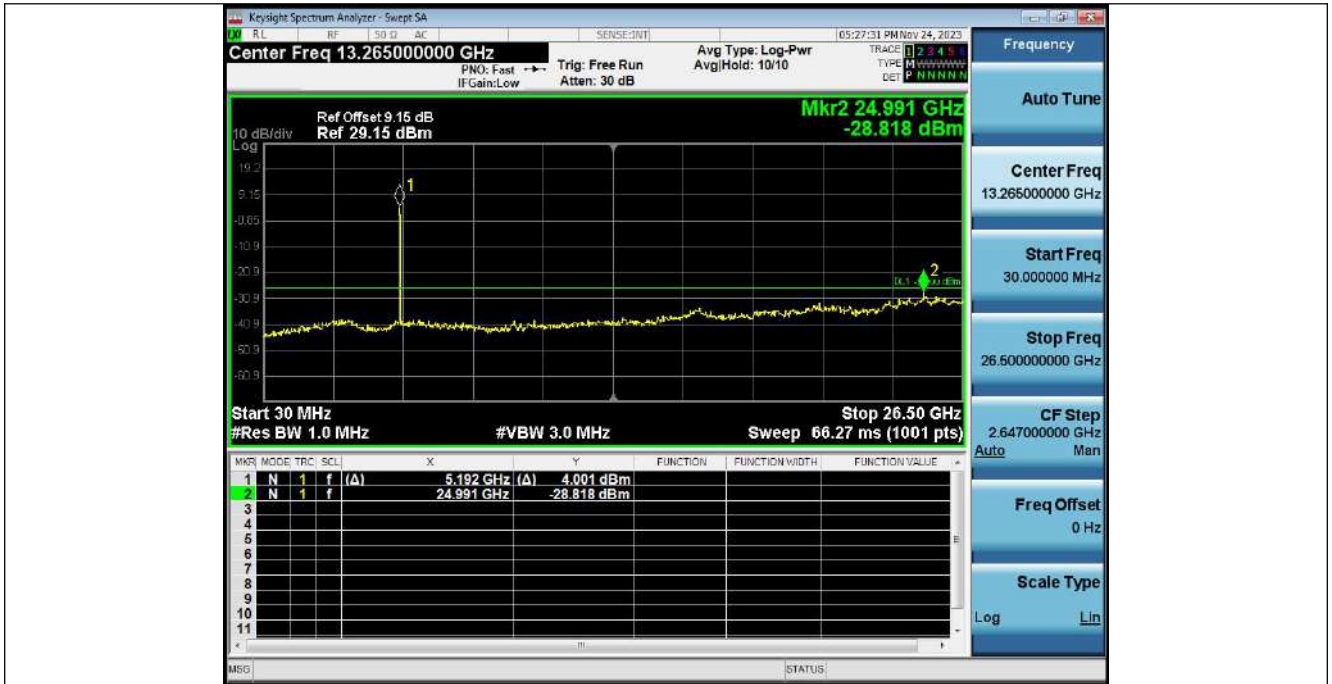


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**Spurious Emission NVNT\_ANT1\_802\_11ac(VHT20) 5200\_20M**

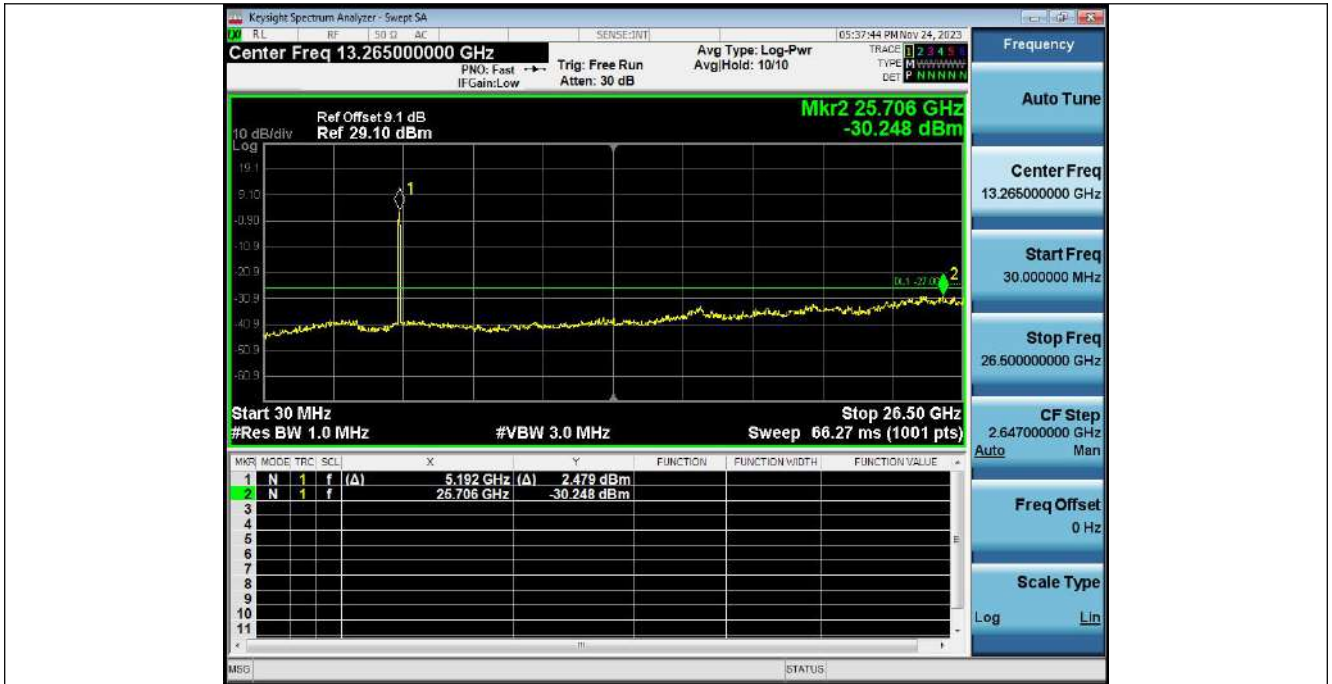




**Spurious Emission NVNT\_ANT1\_802\_11ac(VHT20)\_5240\_20M**



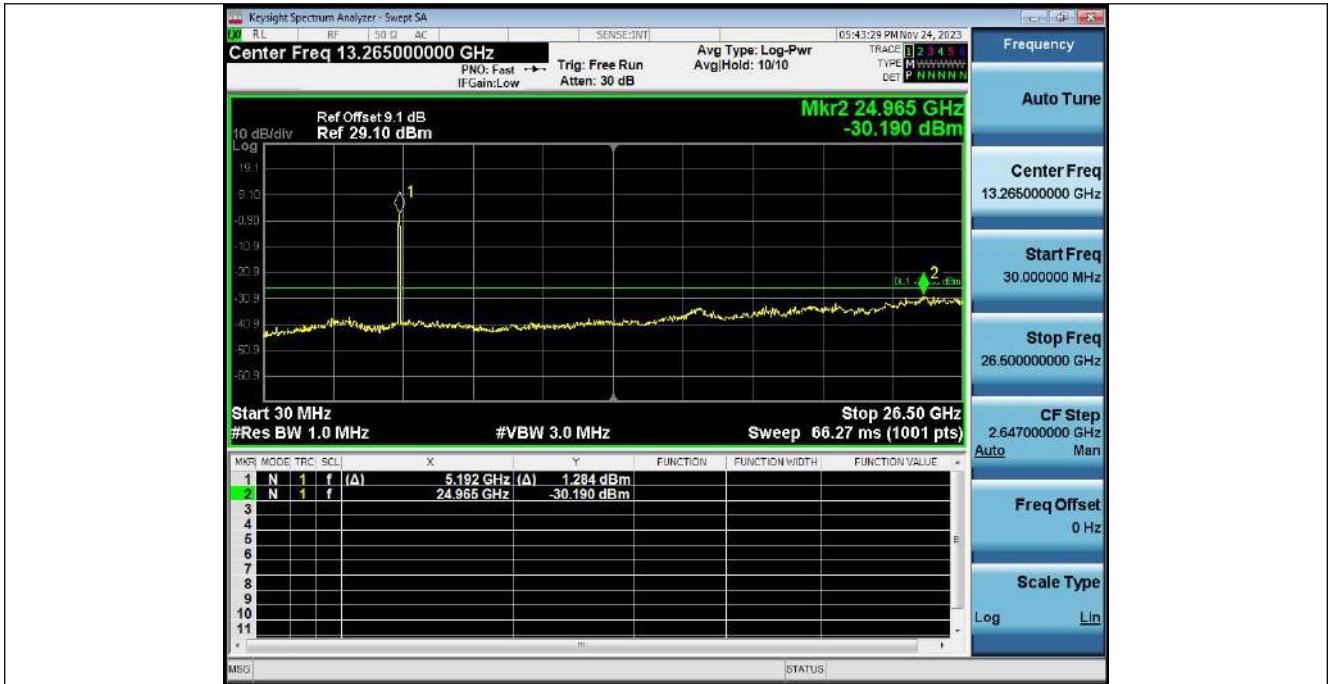
**Spurious Emission NVNT\_ANT1\_802\_11n(HT40)\_5190\_40M**



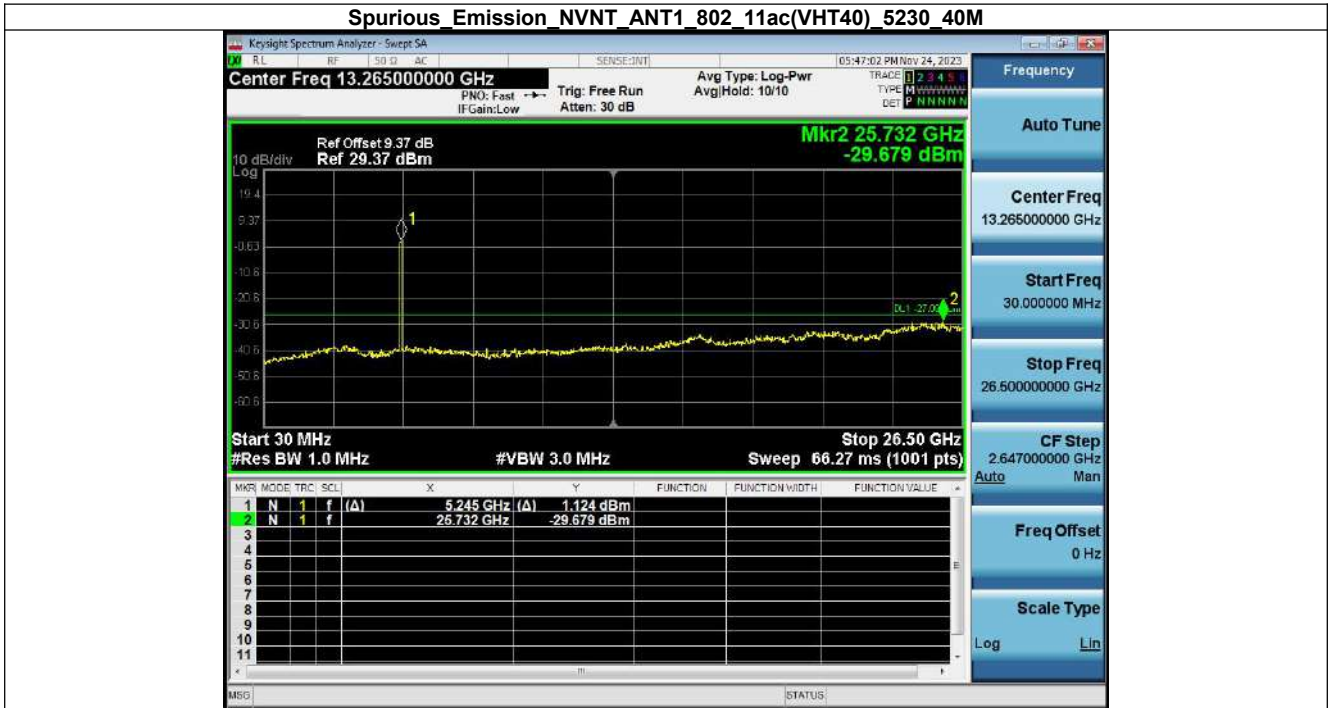
**Spurious Emission\_NVNT\_ANT1\_802\_11n(HT40)\_5230\_40M**



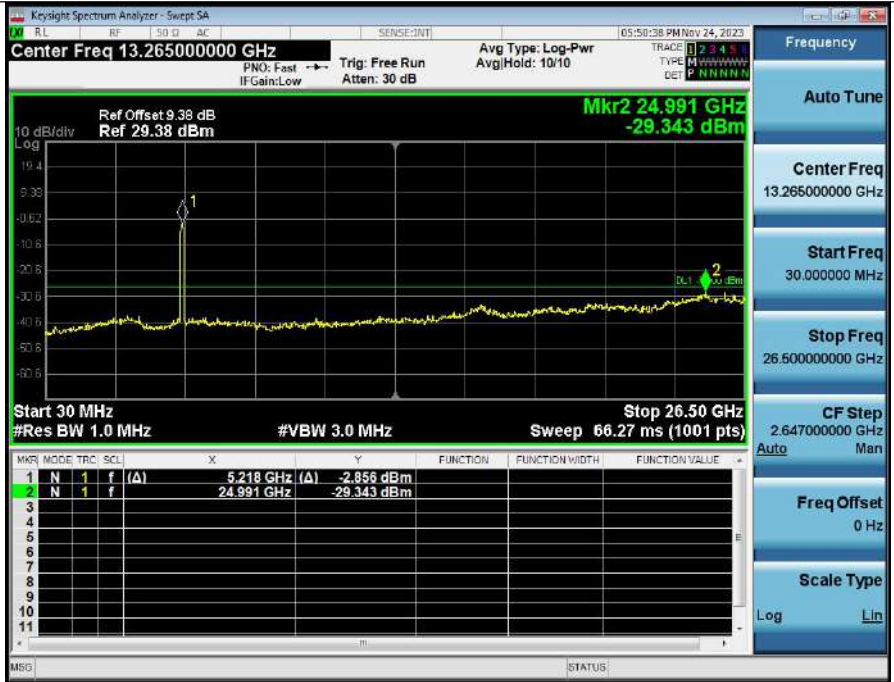
**Spurious Emission\_NVNT\_ANT1\_802\_11ac(VHT40)\_5190\_40M**



**Spurious Emission NVNT\_ANT1\_802\_11ac(VHT40)\_5230\_40M**



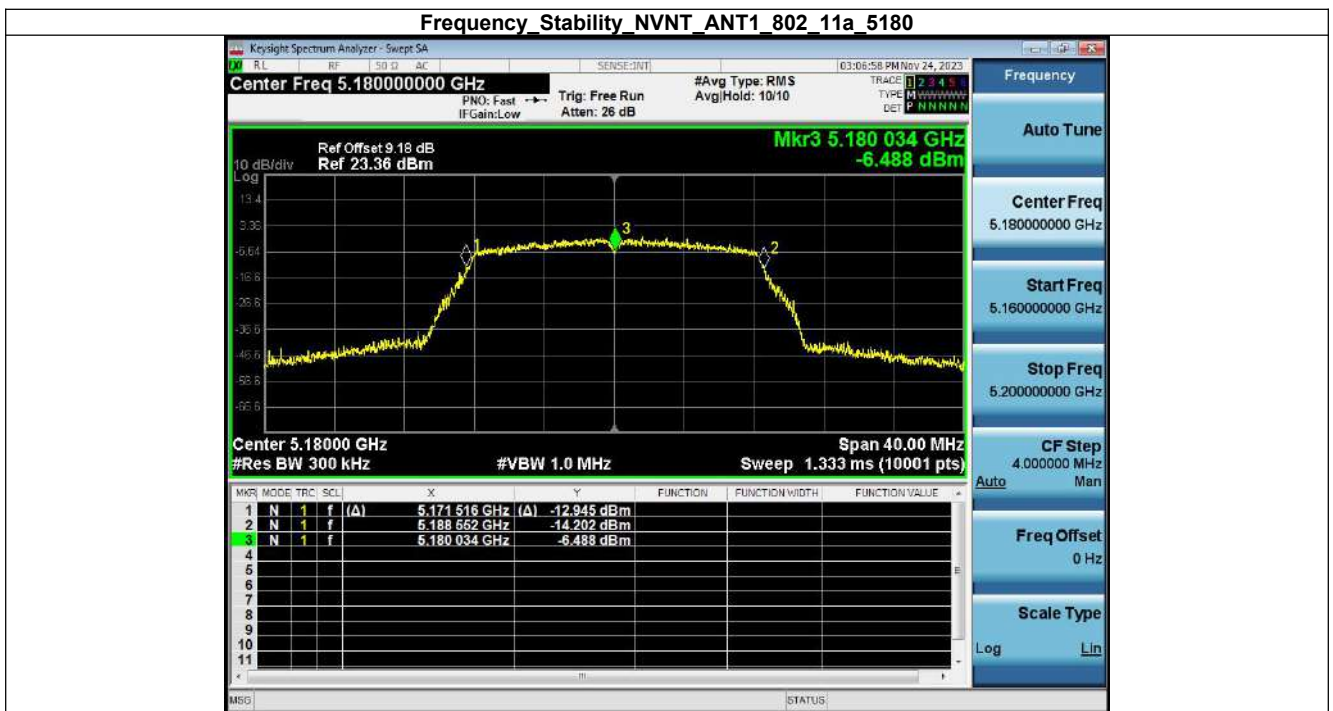
**Spurious Emission NVNT\_ANT1\_802\_11ac(VHT80)\_5210\_80M**



## 7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.034	5171.516	5188.552	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5200.052	5191.516	5208.588	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.060	5231.572	5248.548	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5180.044	5171.044	5189.044	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5200.044	5191.032	5209.056	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5240.060	5231.032	5249.088	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5180.038	5171.028	5189.048	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5200.054	5191.056	5209.052	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5240.042	5231.004	5249.080	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5190.080	5171.920	5208.240	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5230.080	5211.920	5248.240	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5190.088	5171.944	5208.232	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5230.108	5211.952	5248.264	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5210.150	5172.104	5248.196	5150~5250	Pass

Frequency Stability NVNT ANT1 802 11a 5180



Frequency Stability NVNT ANT1 802 11a 5200





Frequency Stability\_NVNT\_ANT1\_802\_11a\_5240



Frequency Stability\_NVNT\_ANT1\_802\_11n(HT20)\_5180





Frequency Stability\_NVNT\_ANT1\_802\_11n(HT20)\_5200



Frequency Stability\_NVNT\_ANT1\_802\_11n(HT20)\_5240



Frequency Stability NVNT\_ANT1\_802\_11ac(VHT20)\_5180



Frequency Stability NVNT\_ANT1\_802\_11ac(VHT20)\_5200



Frequency Stability NVNT\_ANT1\_802\_11ac(VHT20)\_5240



Frequency Stability NVNT\_ANT1\_802\_11n(HT40)\_5190



Frequency\_Stability\_NVNT\_ANT1\_802\_11n(HT40)\_5230

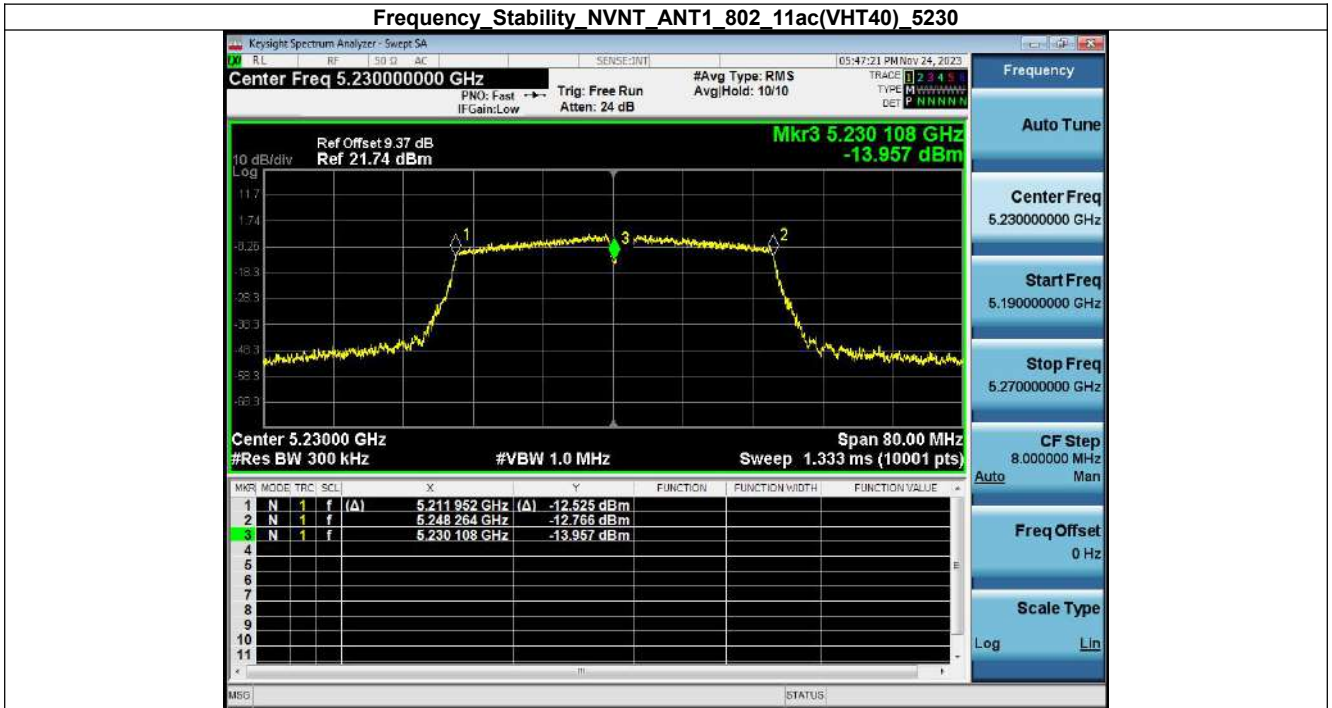


Frequency\_Stability\_NVNT\_ANT1\_802\_11ac(VHT40)\_5190





Frequency Stability NVNT\_ANT1\_802\_11ac(VHT40)\_5230



Frequency Stability NVNT\_ANT1\_802\_11ac(VHT80)\_5210

