

Appendix A: Test Results of 5GHz Wi-Fi

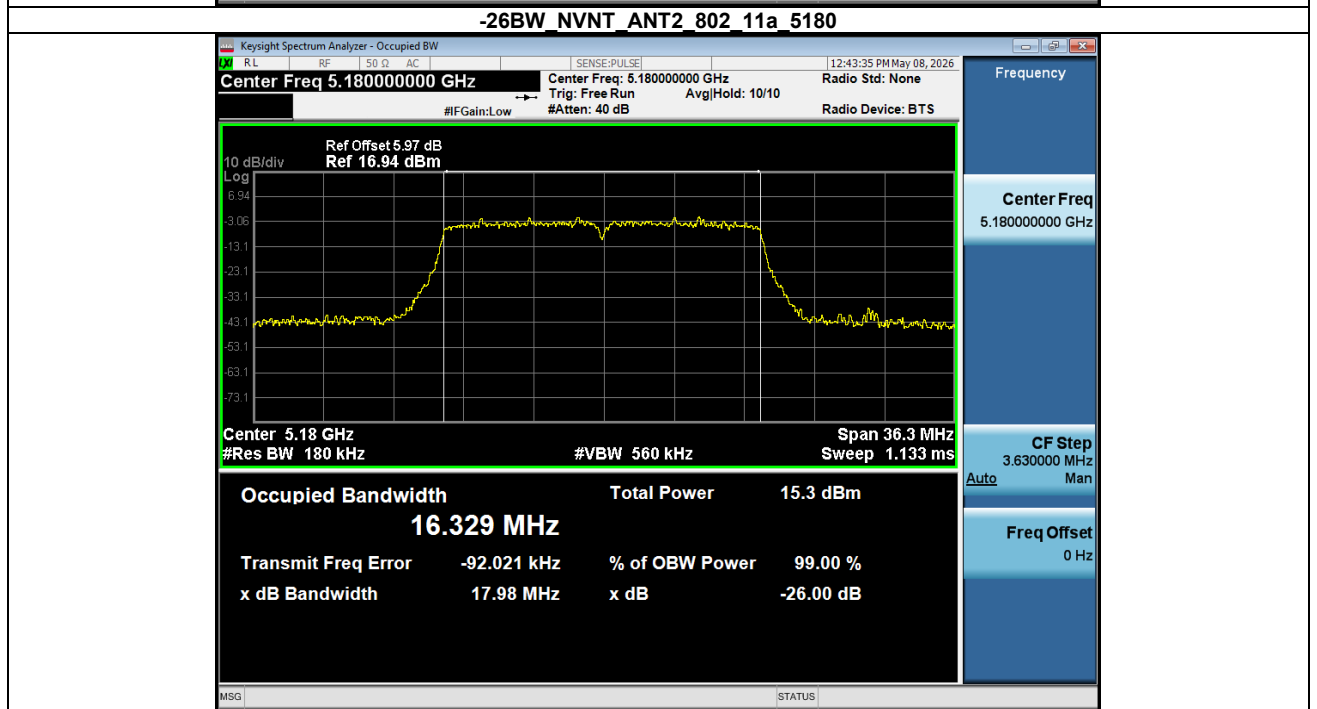
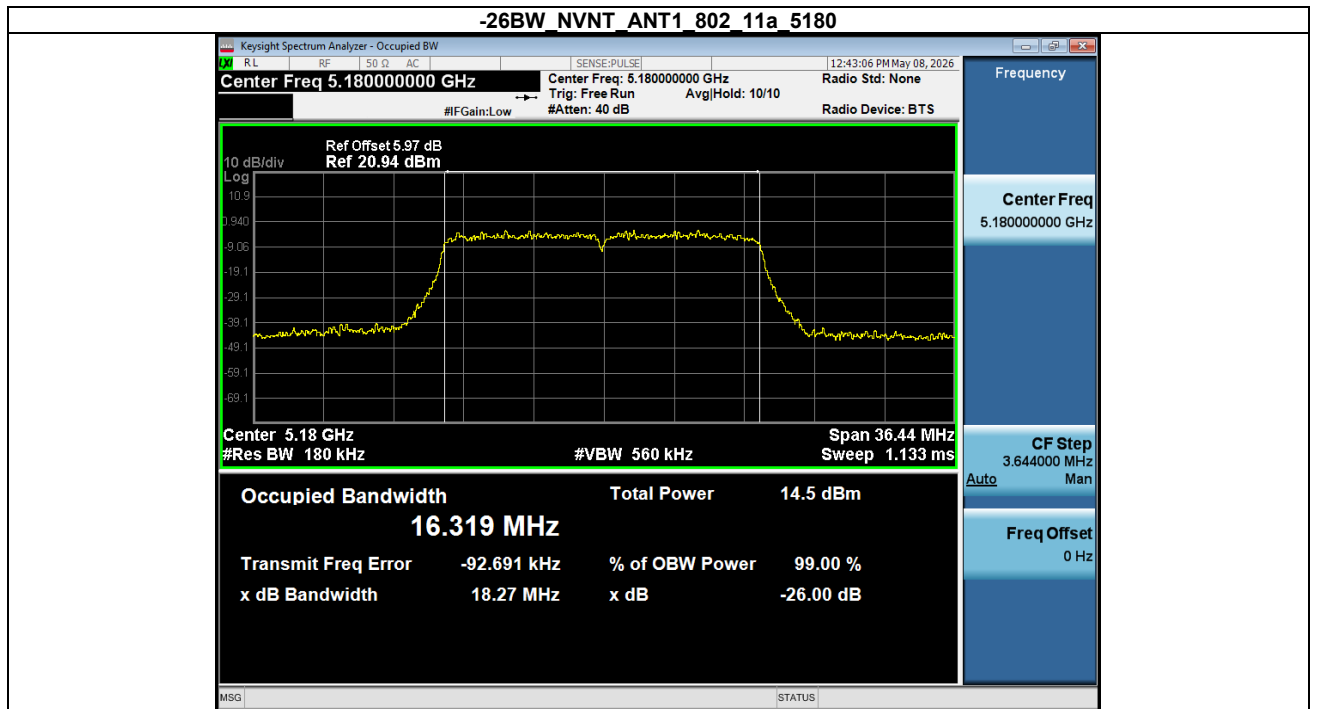
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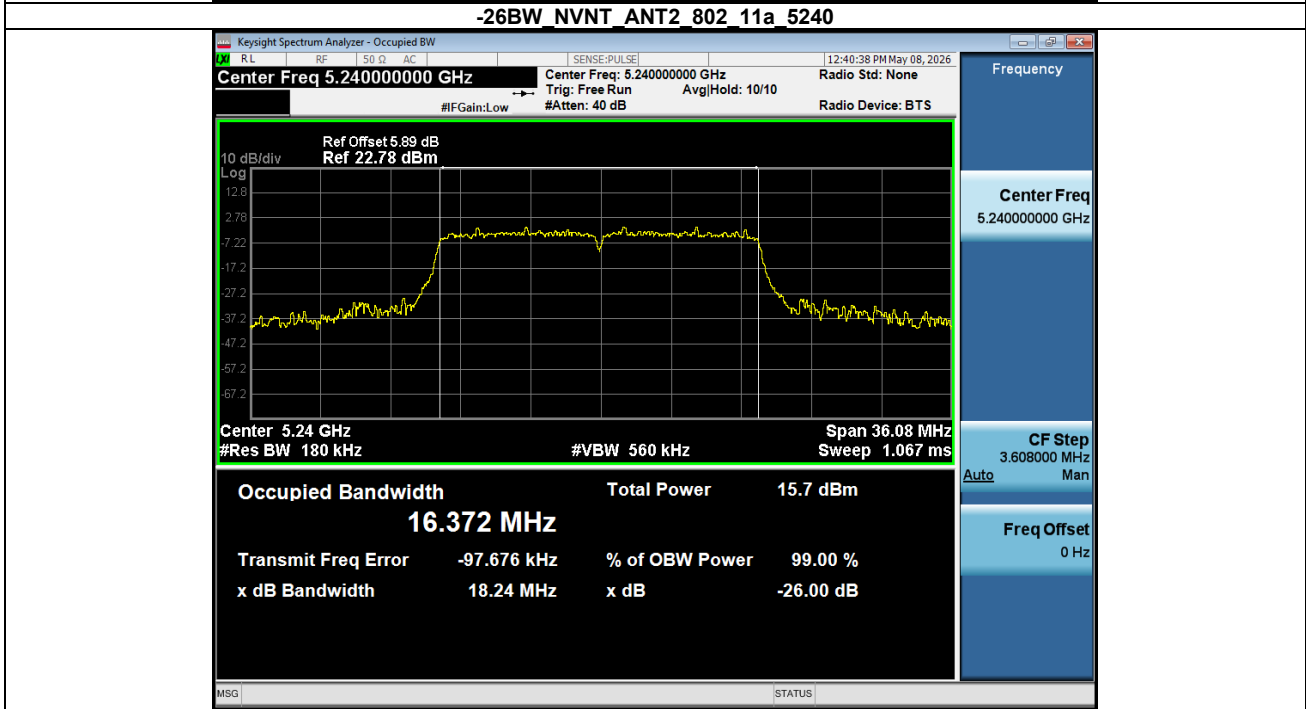
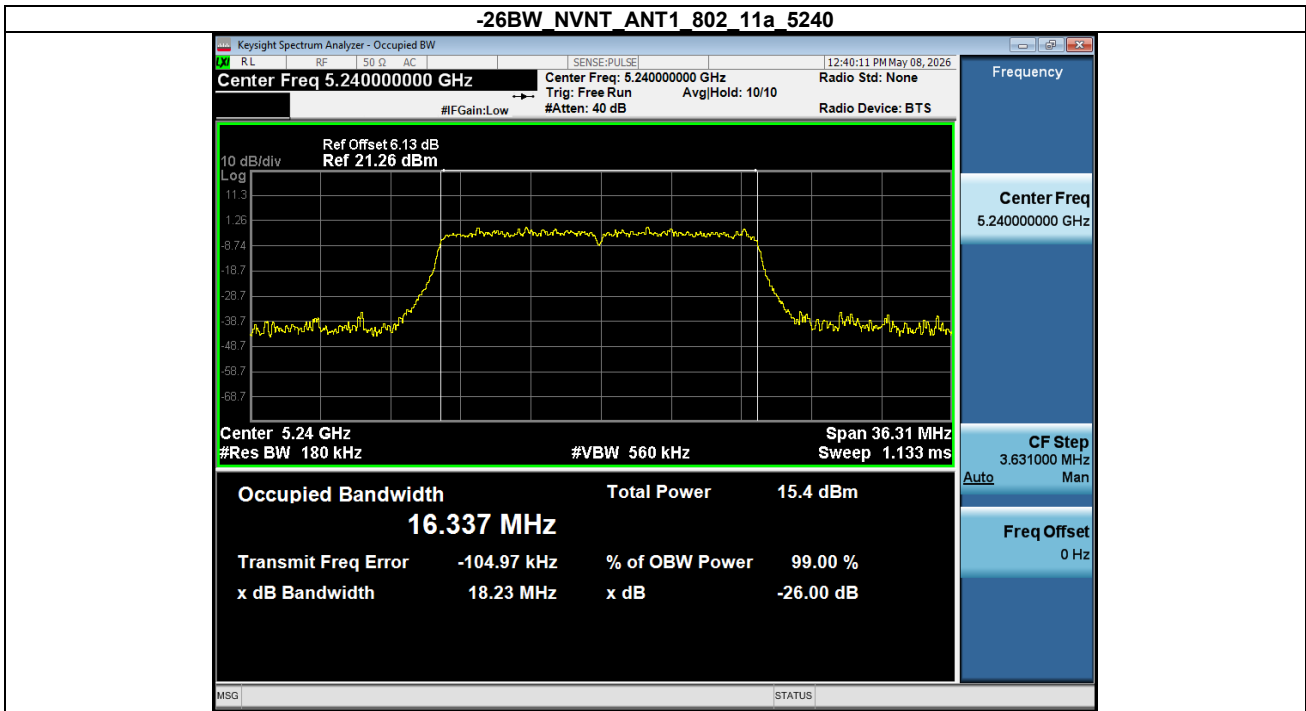
Appendix A.1: Test Results of 26dB Bandwidth

Test Result

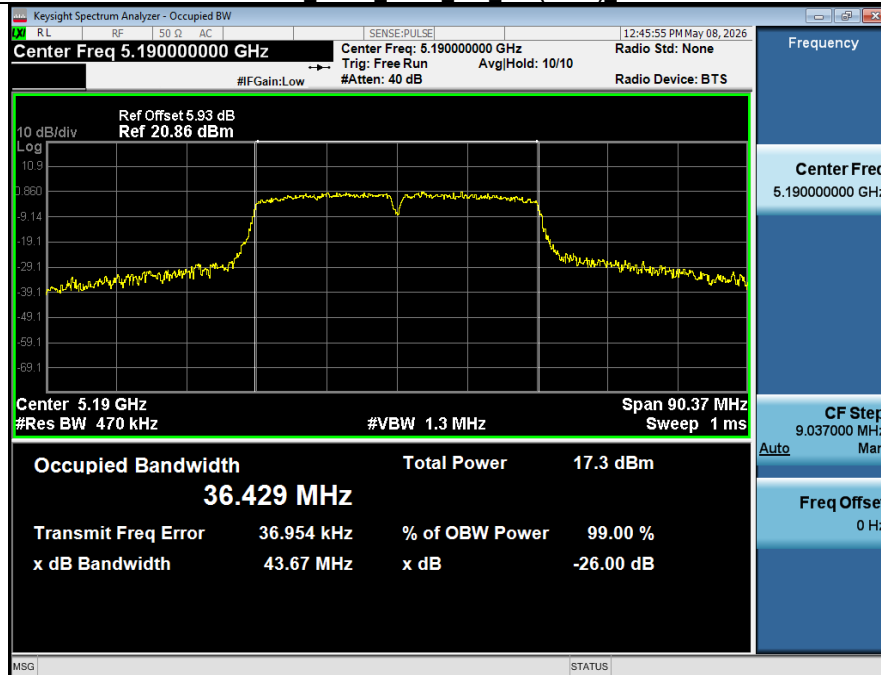
Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	18.27
NVNT	ANT2	802.11a	5180.00	17.98
NVNT	ANT1	802.11a	5240.00	18.23
NVNT	ANT2	802.11a	5240.00	18.24
NVNT	ANT1	802.11n(HT40)	5190.00	43.67
NVNT	ANT2	802.11n(HT40)	5190.00	43.22
NVNT	ANT1	802.11n(HT40)	5230.00	41.02
NVNT	ANT2	802.11n(HT40)	5230.00	40.96
NVNT	ANT1	802.11ac(VHT80)	5210.00	87.42
NVNT	ANT2	802.11ac(VHT80)	5210.00	87.09

Test Graphs

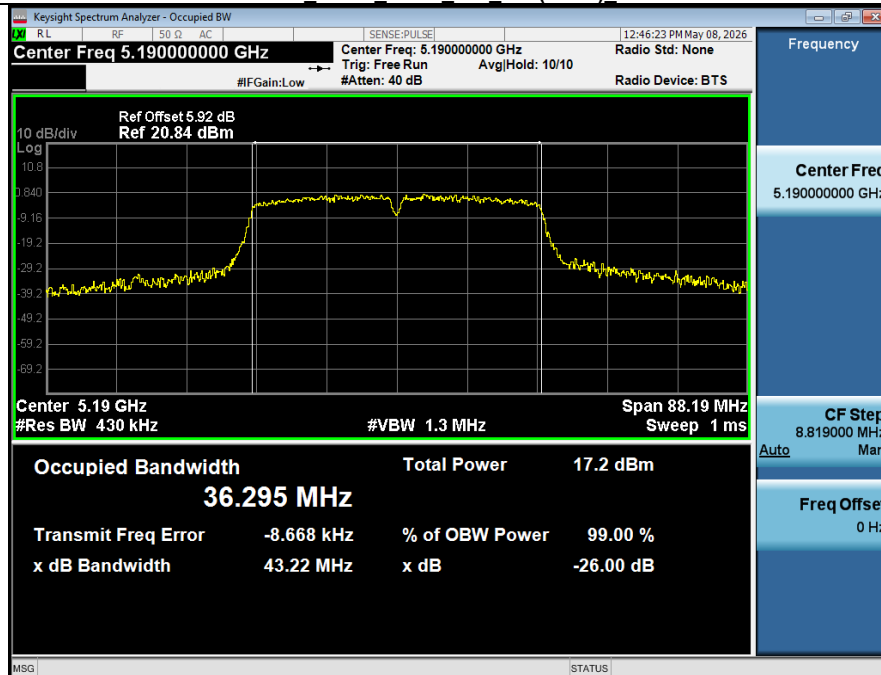




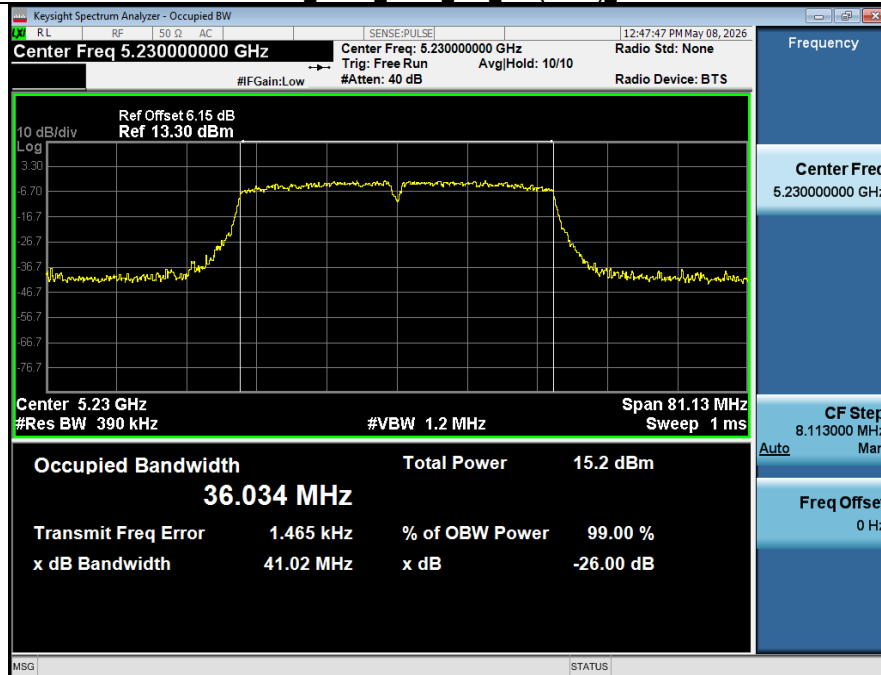
-26BW NVNT ANT1 802 11n(HT40) 5190



-26BW NVNT ANT2 802 11n(HT40) 5190

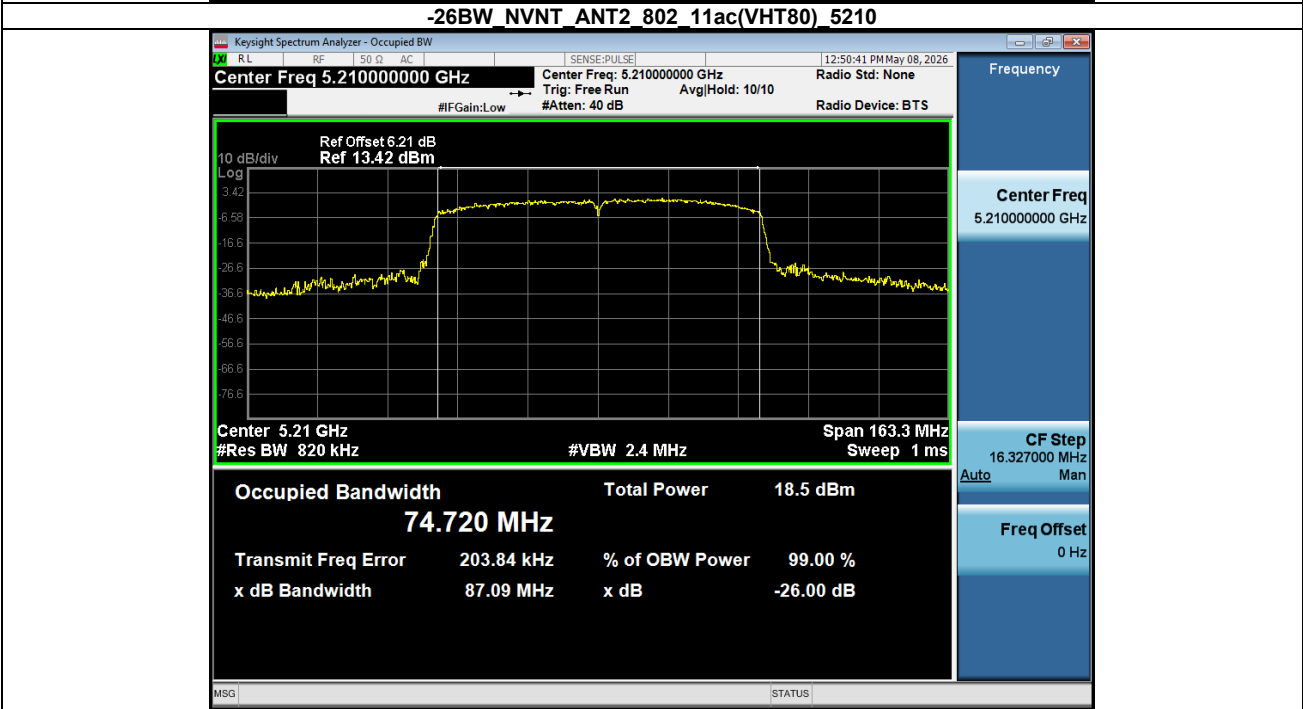
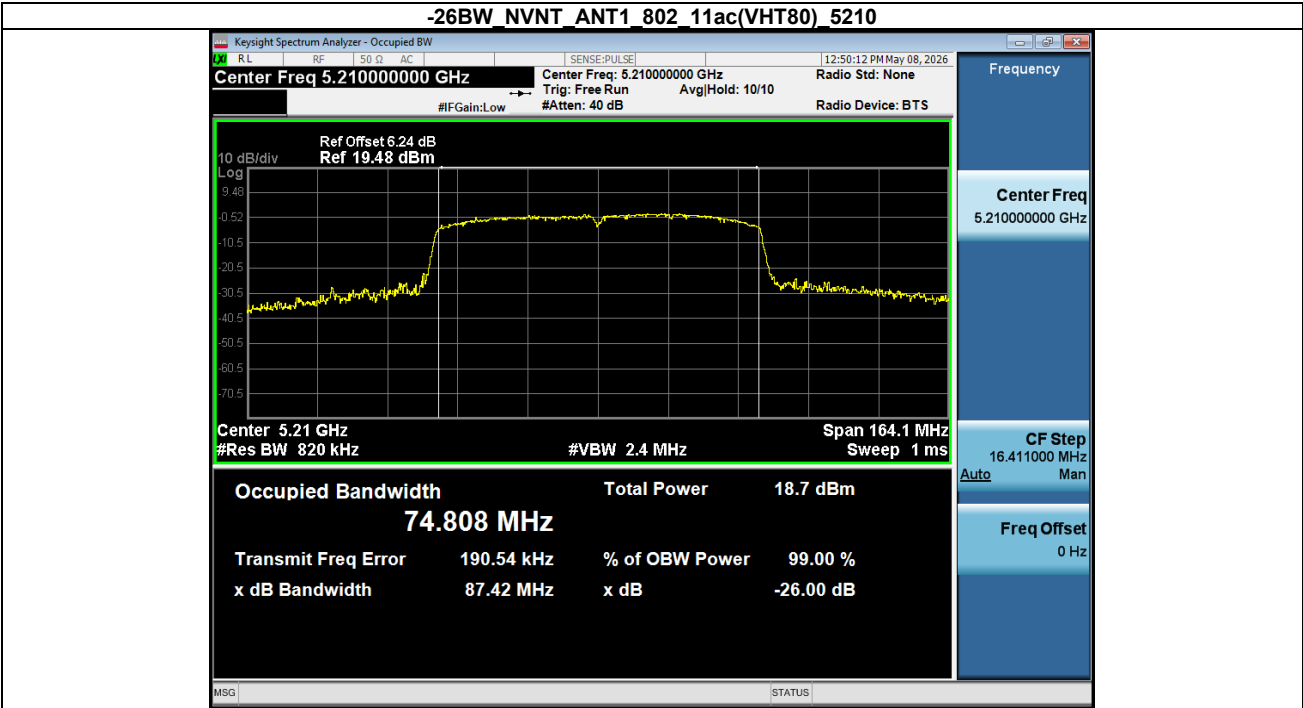


-26BW NVNT ANT1 802_11n(HT40) 5230



-26BW NVNT ANT2 802_11n(HT40) 5230





Appendix A.2: Test Results of 99% Bandwidth

Test Result

U-NII-1:

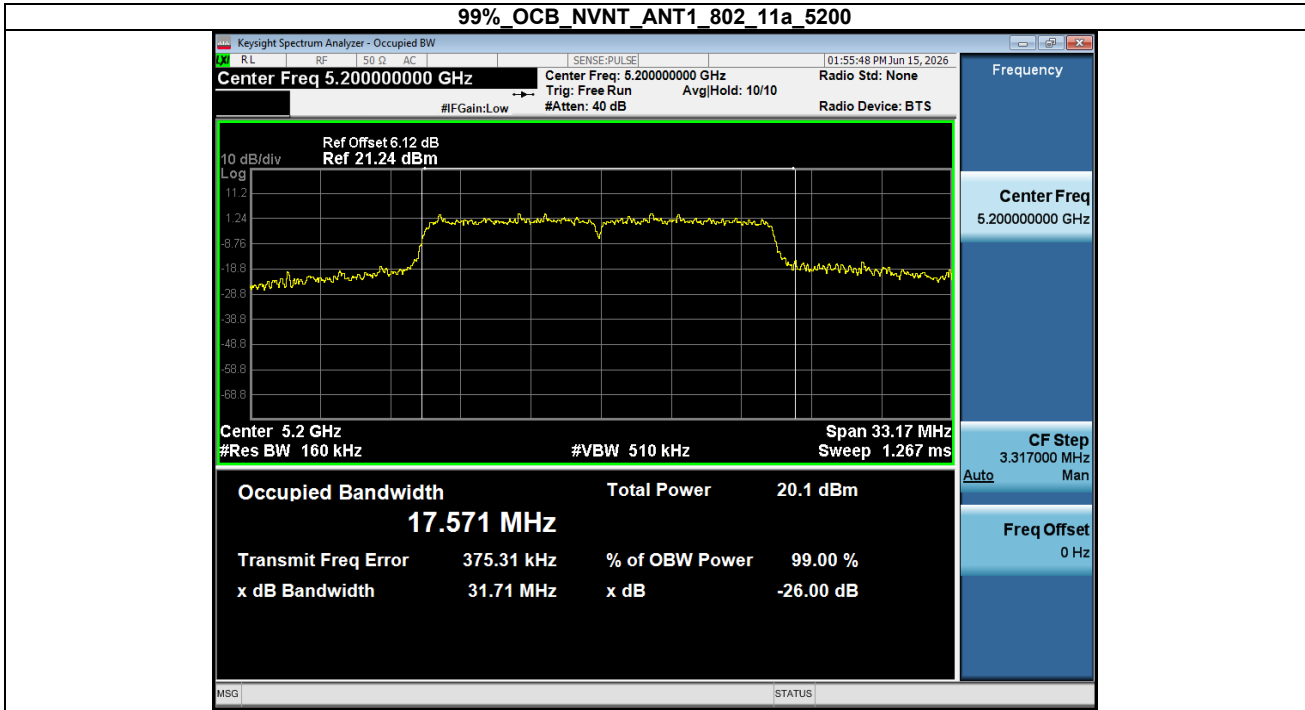
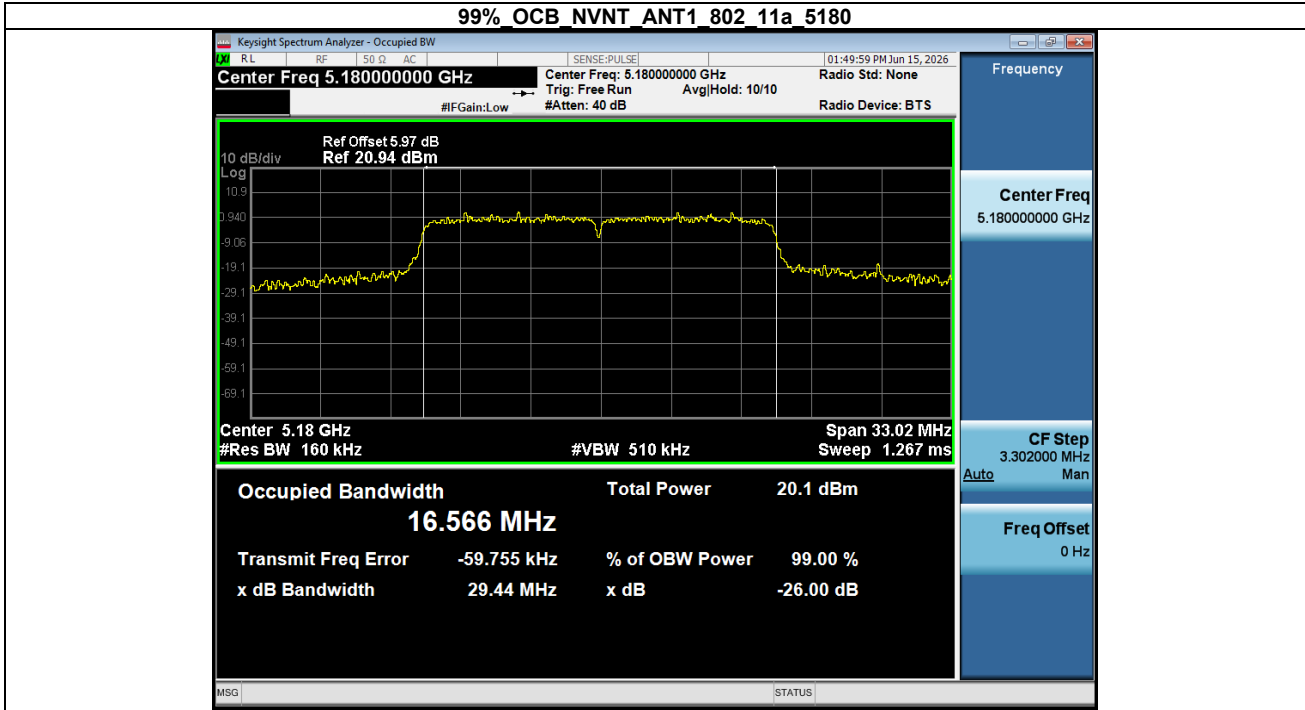
Condition	Antenna	Modulation	Frequency(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	16.57
NVNT	ANT1	802.11a	5200.00	17.57
NVNT	ANT1	802.11a	5240.00	18.62
NVNT	ANT1	802.11n(HT20)	5180.00	17.79
NVNT	ANT1	802.11n(HT20)	5200.00	18.42
NVNT	ANT1	802.11n(HT20)	5240.00	19.77
NVNT	ANT1	802.11ac(VHT20)	5180.00	17.89
NVNT	ANT1	802.11ac(VHT20)	5200.00	18.70
NVNT	ANT1	802.11ac(VHT20)	5240.00	19.82
NVNT	ANT1	802.11n(HT40)	5190.00	36.25
NVNT	ANT1	802.11n(HT40)	5230.00	35.99
NVNT	ANT1	802.11ac(VHT40)	5190.00	36.20
NVNT	ANT1	802.11ac(VHT40)	5230.00	36.03
NVNT	ANT1	802.11ac(VHT80)	5210.00	74.74

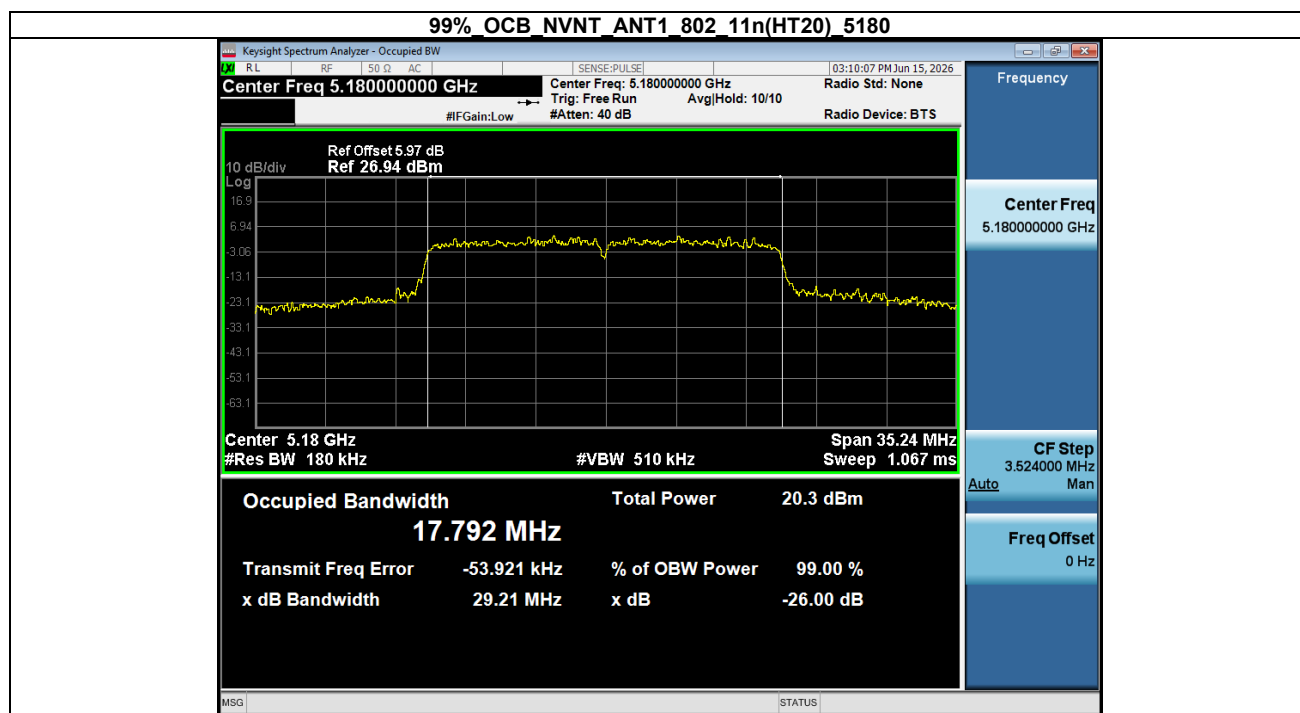
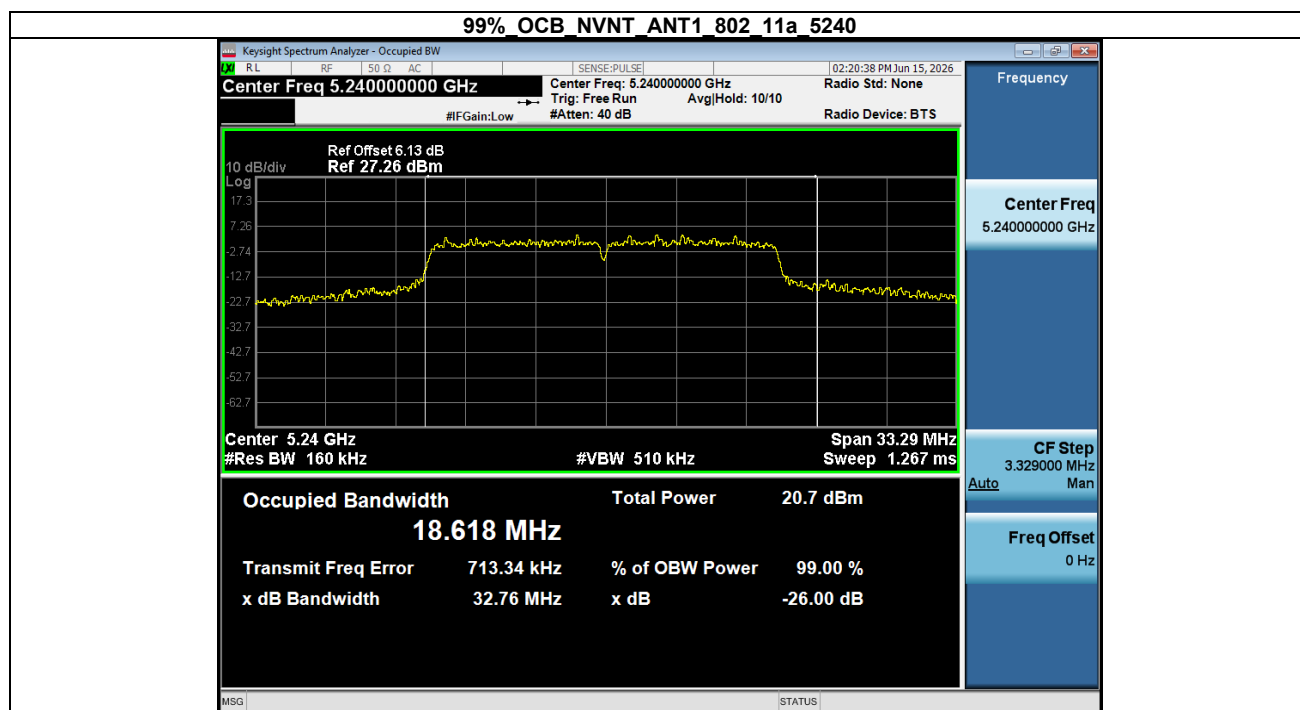
U-NII-3:

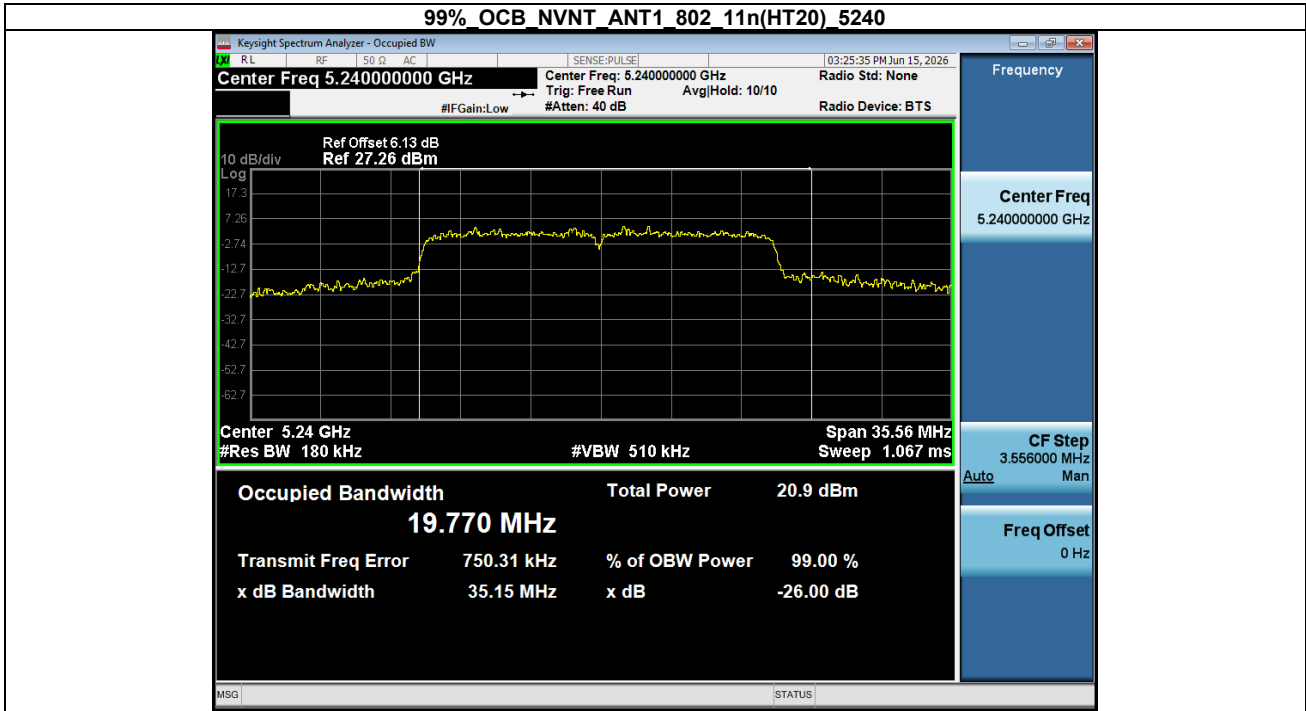
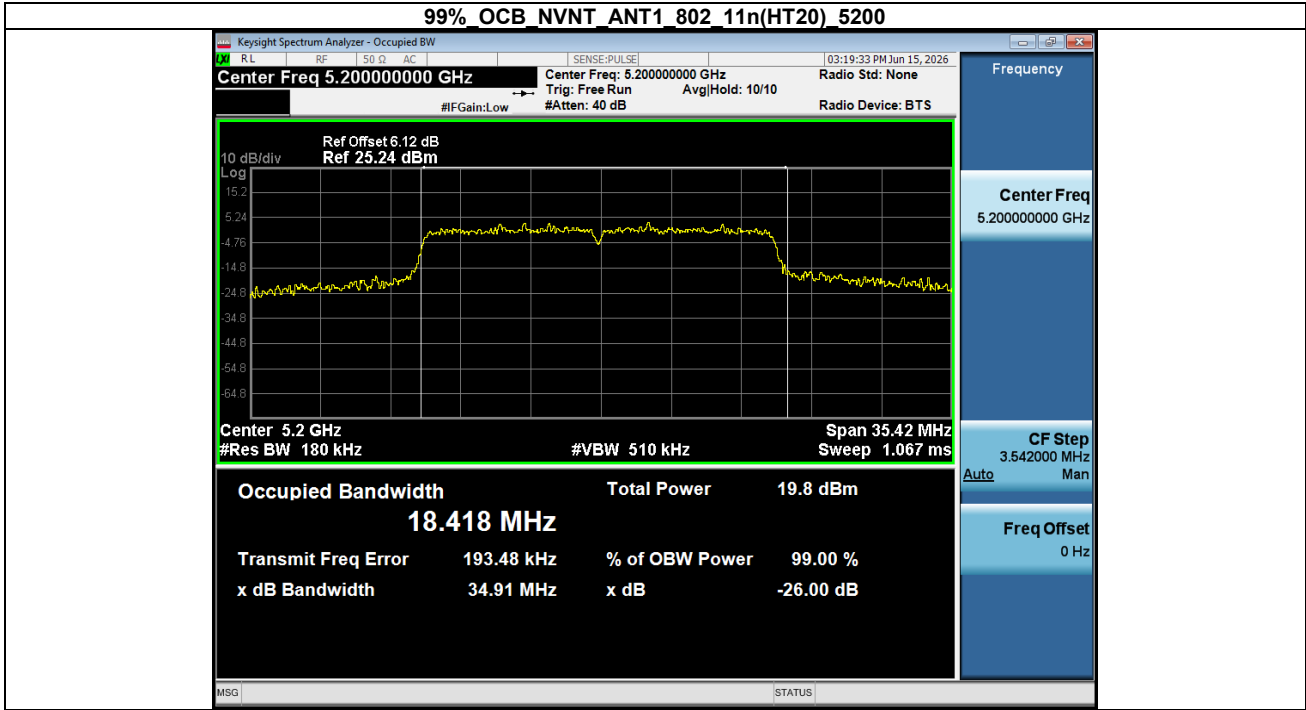
Condition	Antenna	Modulation	Frequency(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	16.91
NVNT	ANT1	802.11a	5785.00	17.33
NVNT	ANT1	802.11a	5825.00	18.24
NVNT	ANT1	802.11n(HT20)	5745.00	18.40
NVNT	ANT1	802.11n(HT20)	5785.00	18.69
NVNT	ANT1	802.11n(HT20)	5825.00	20.42
NVNT	ANT1	802.11ac(VHT20)	5745.00	18.21
NVNT	ANT1	802.11ac(VHT20)	5785.00	18.58
NVNT	ANT1	802.11ac(VHT20)	5825.00	20.14
NVNT	ANT1	802.11n(HT40)	5755.00	36.34
NVNT	ANT1	802.11n(HT40)	5795.00	36.27
NVNT	ANT1	802.11ac(VHT40)	5755.00	36.42
NVNT	ANT1	802.11ac(VHT40)	5795.00	36.26
NVNT	ANT1	802.11ac(VHT80)	5775.00	75.01

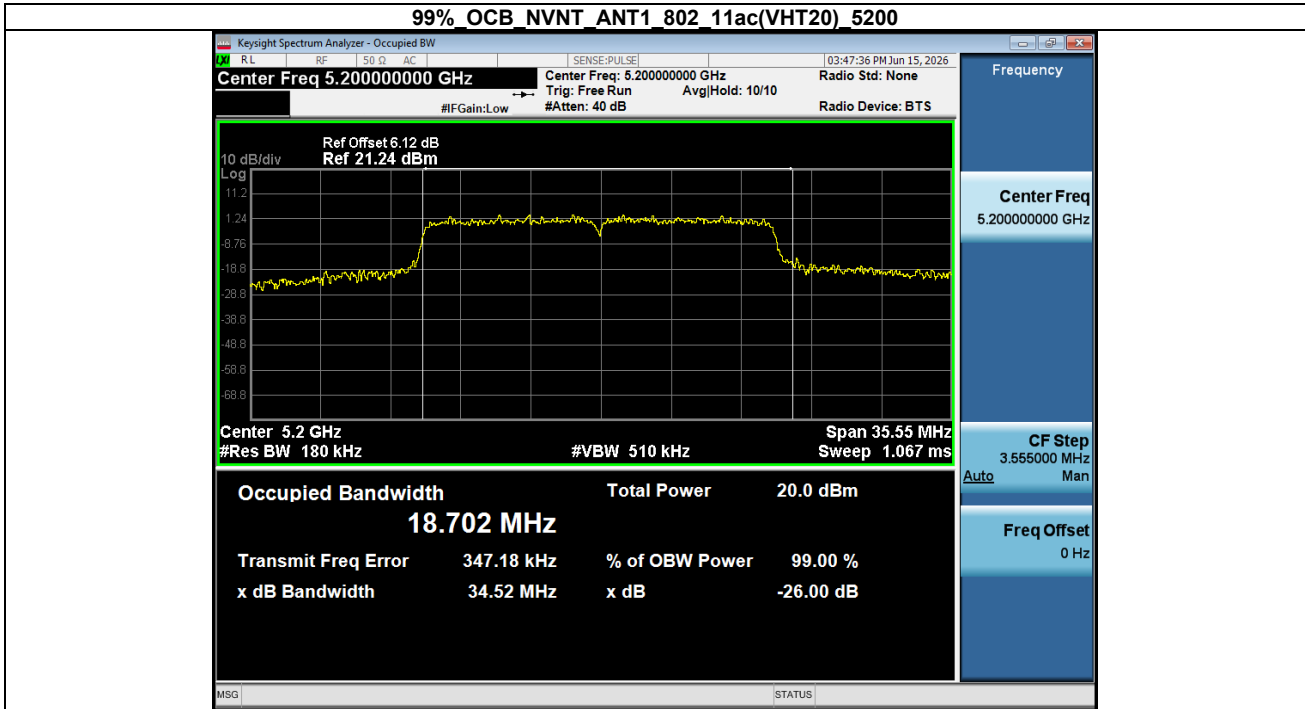
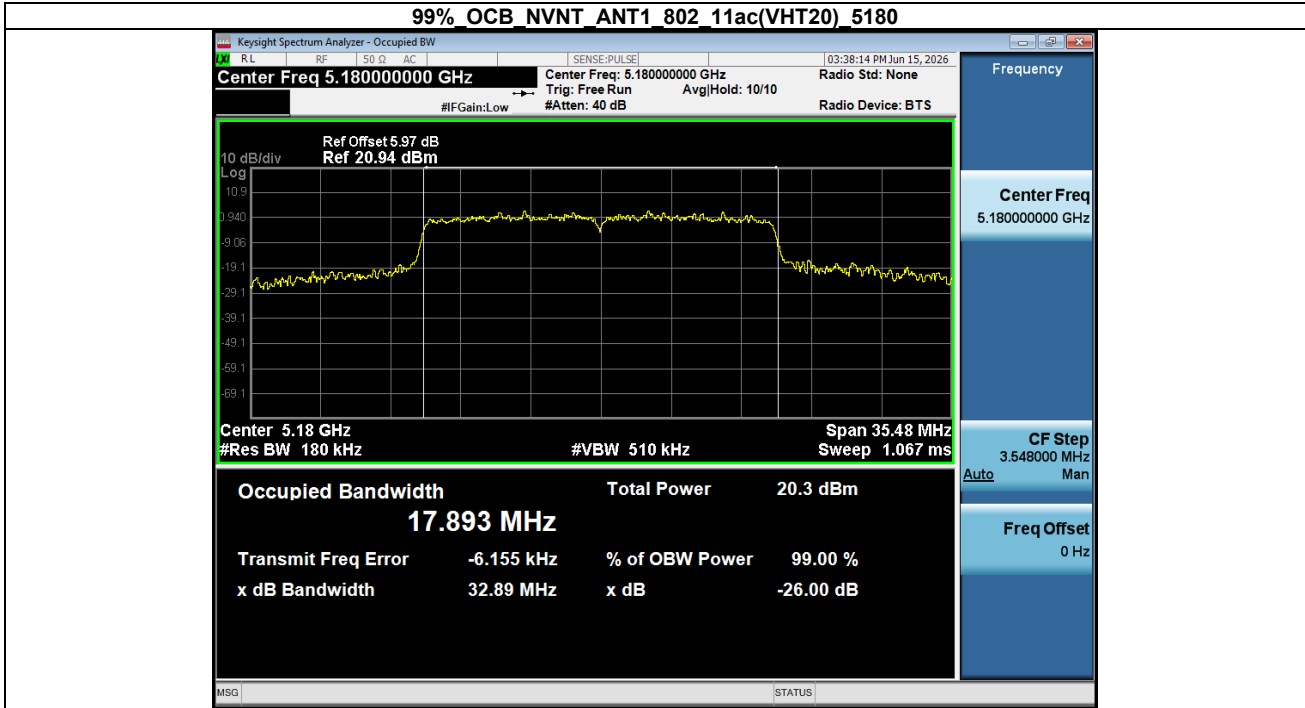
Test Graphs

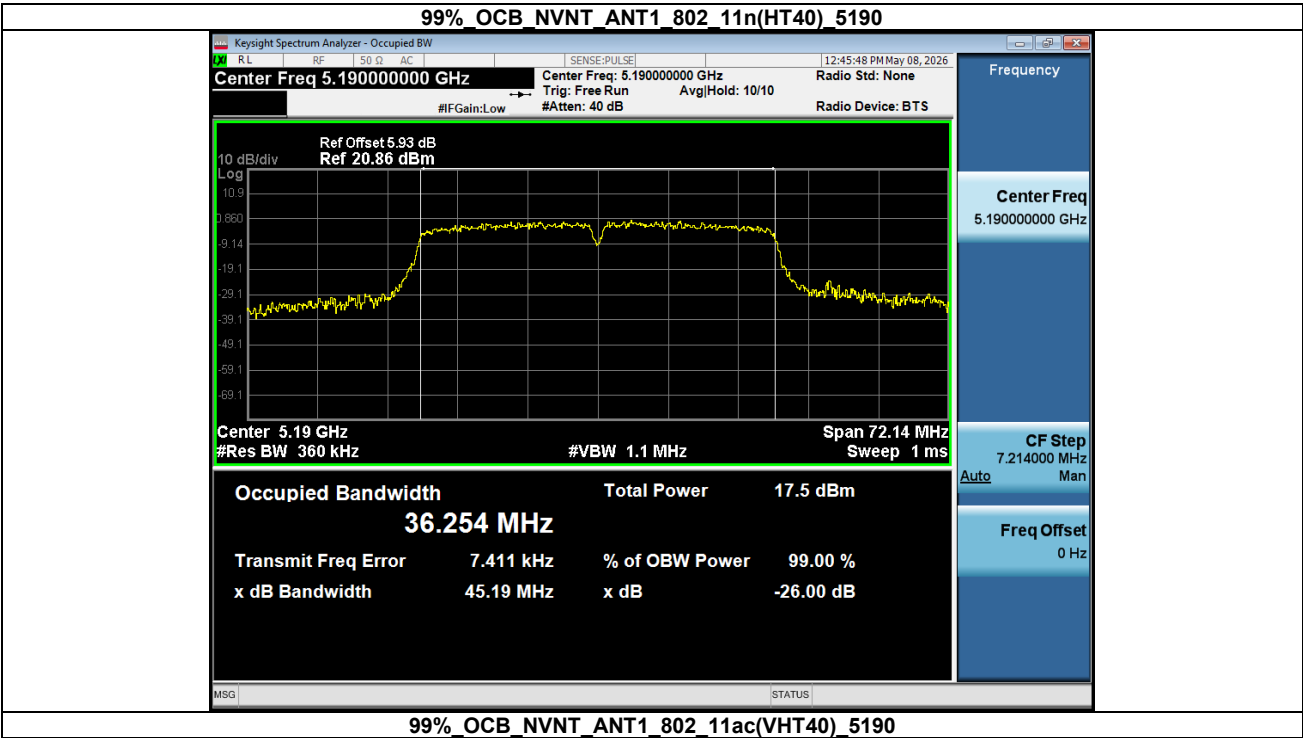
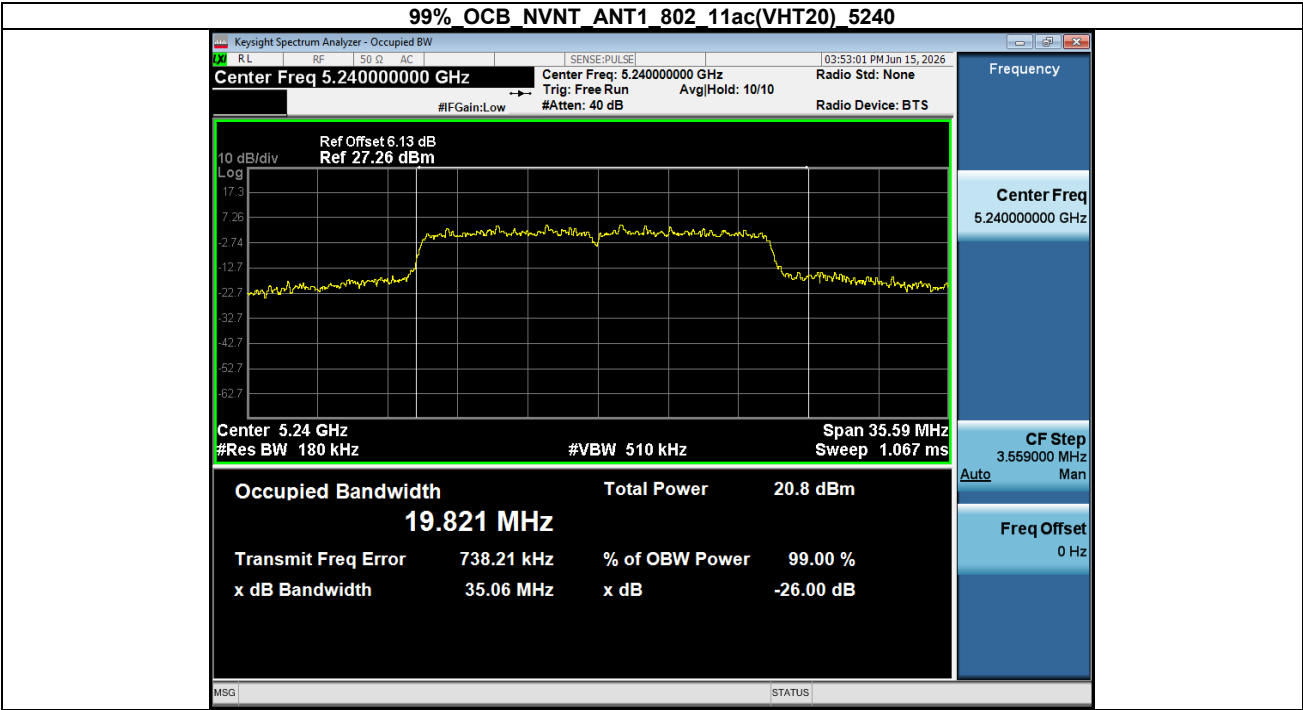
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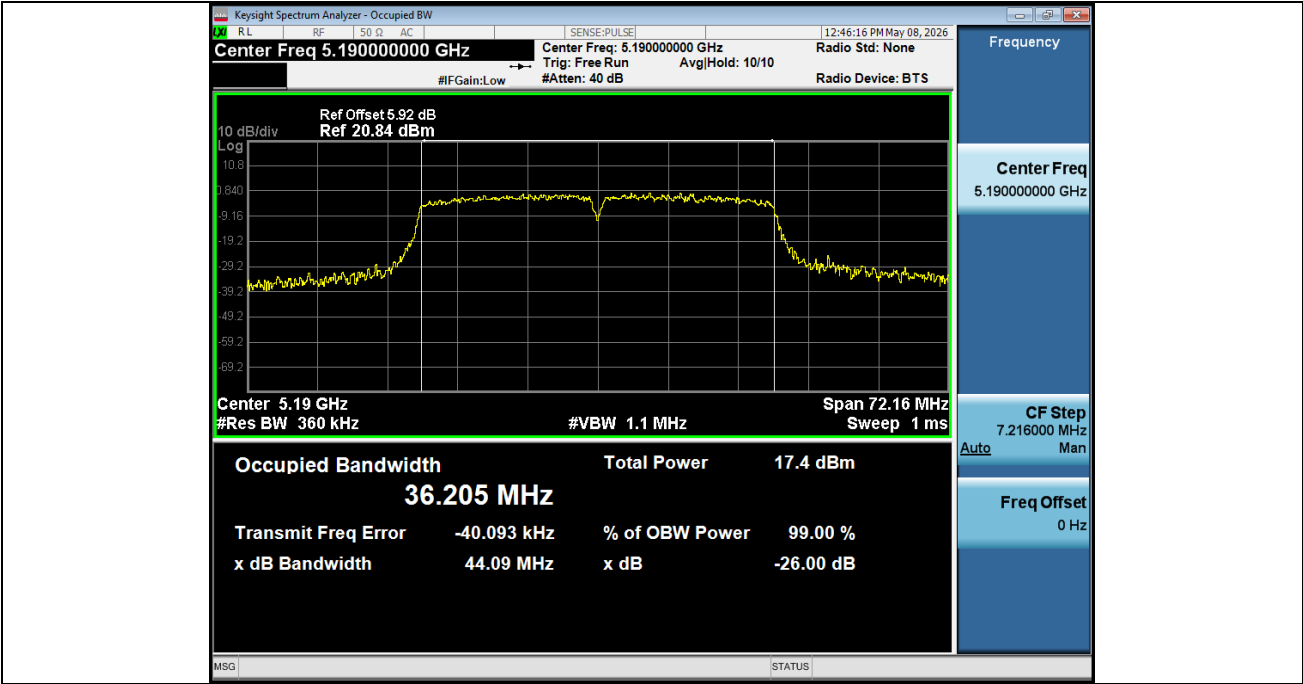




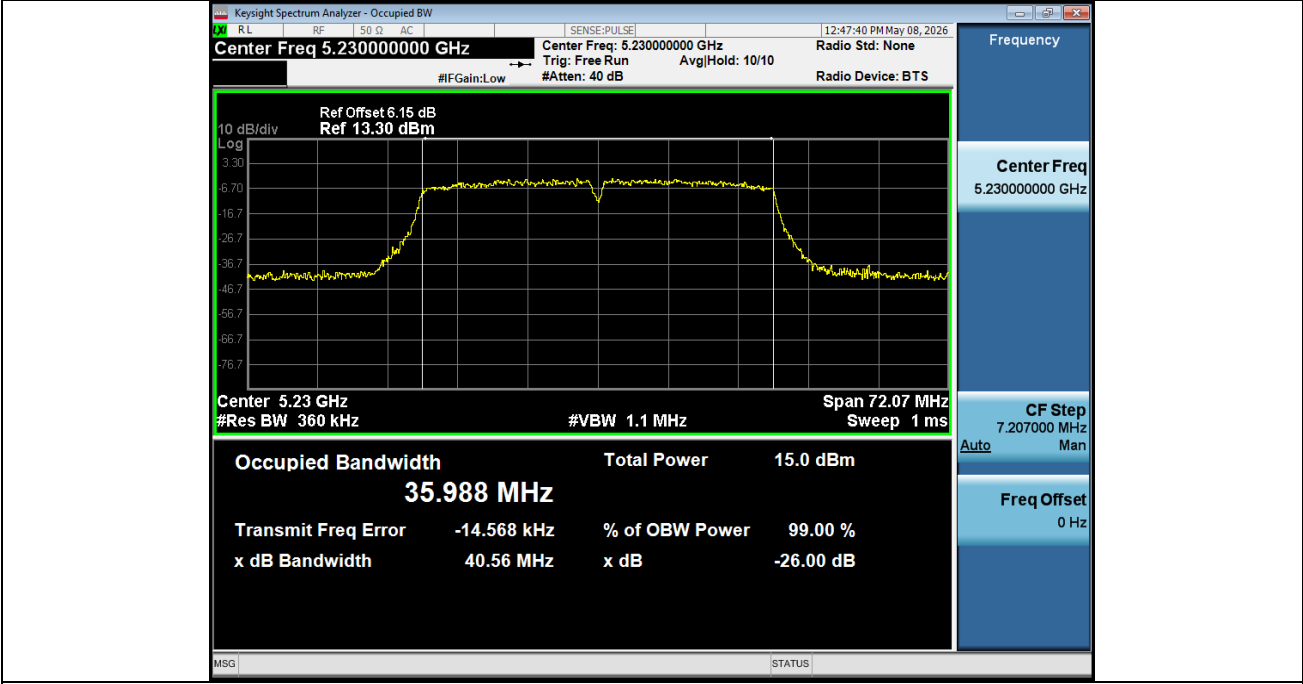




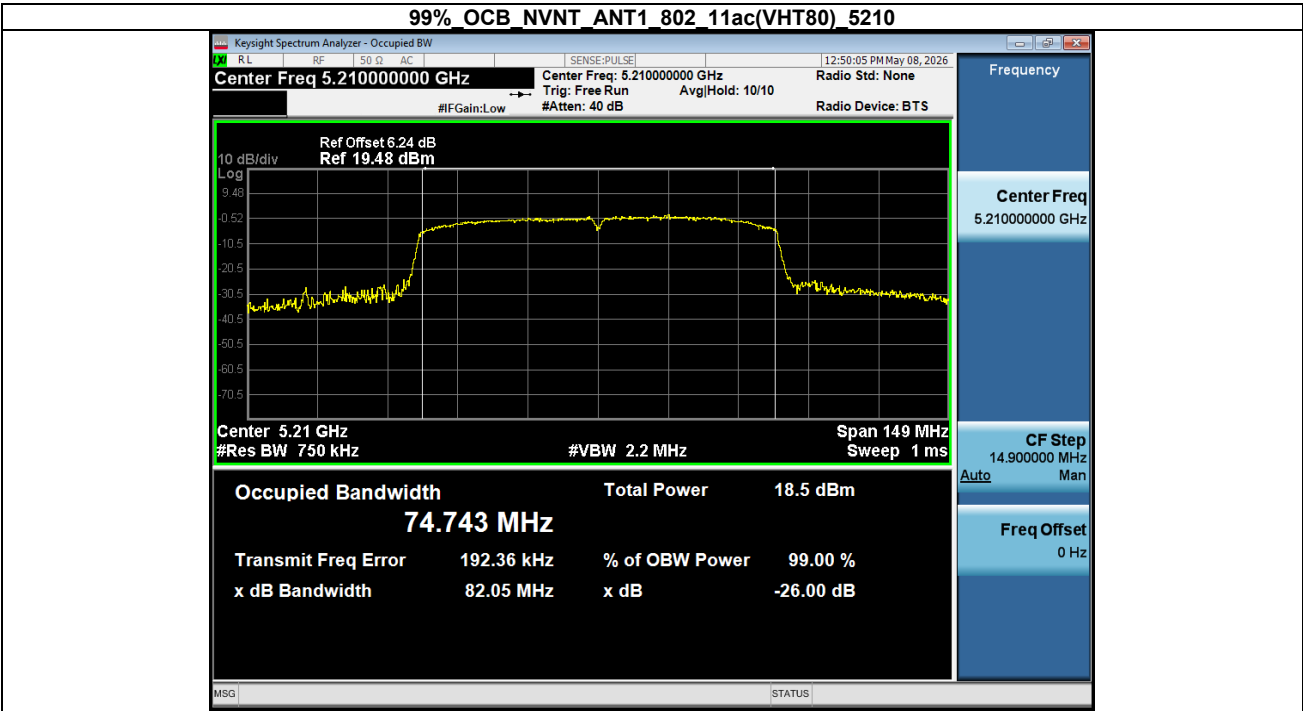
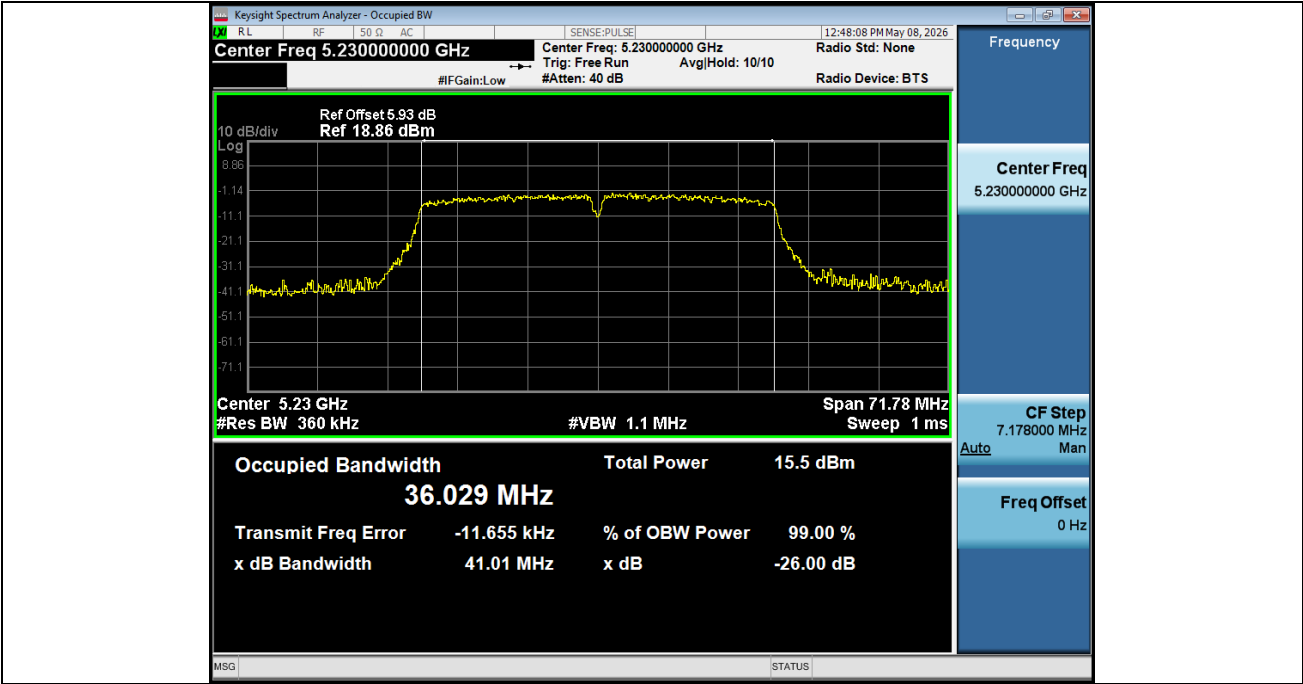
99% OCB NVNT ANT1 802 11ac(VHT40) 5190



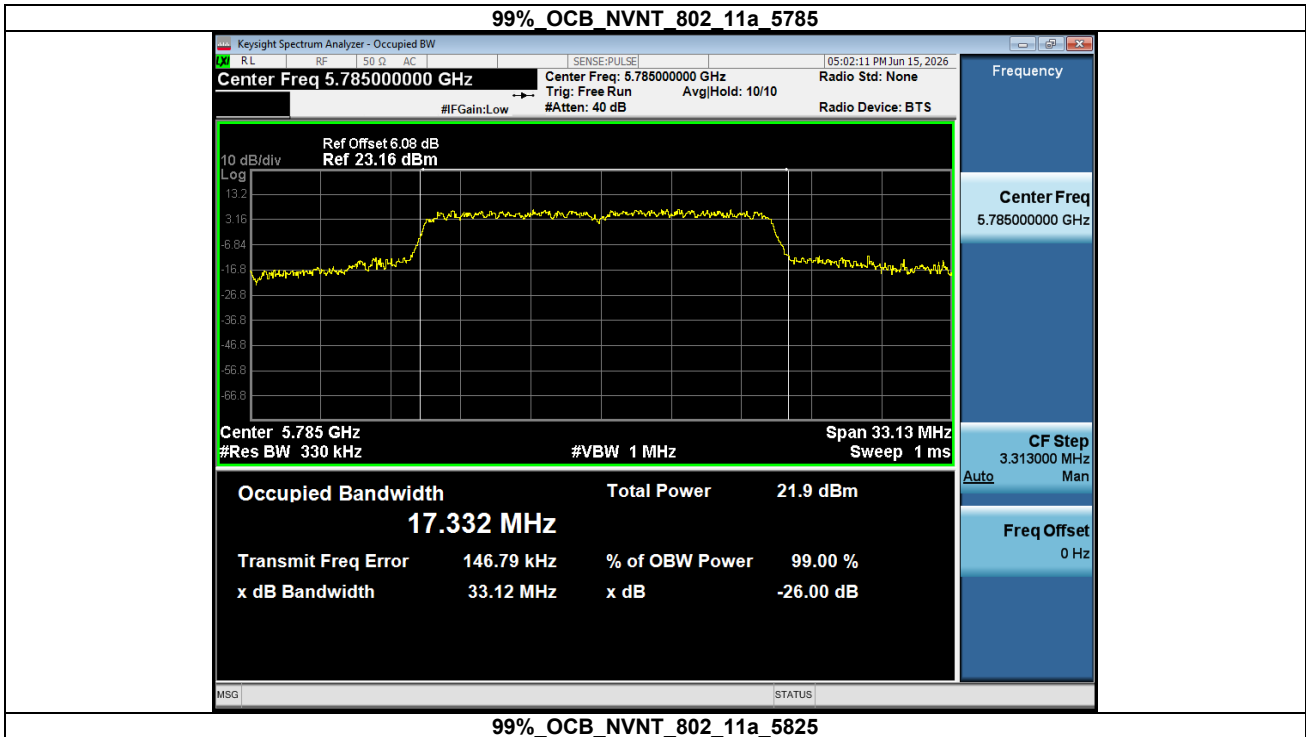
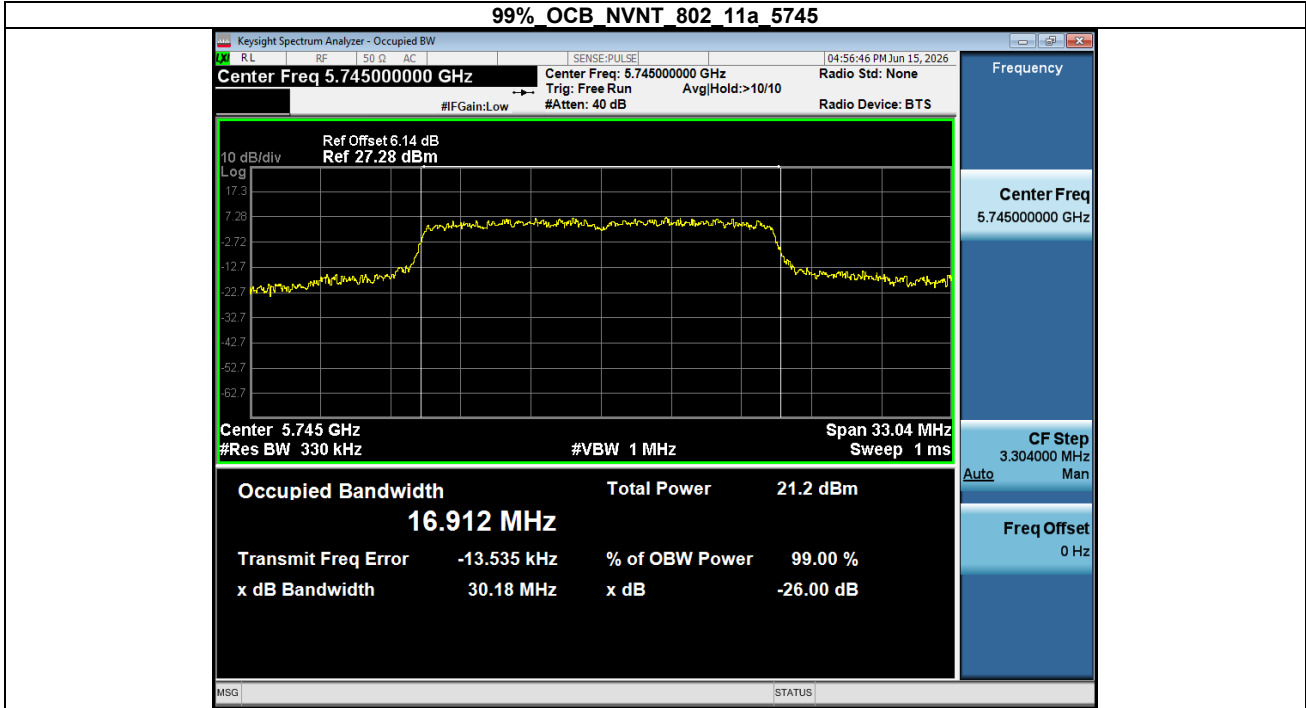
99%_OCB_NVNT_ANT1_802_11n(HT40)_5230



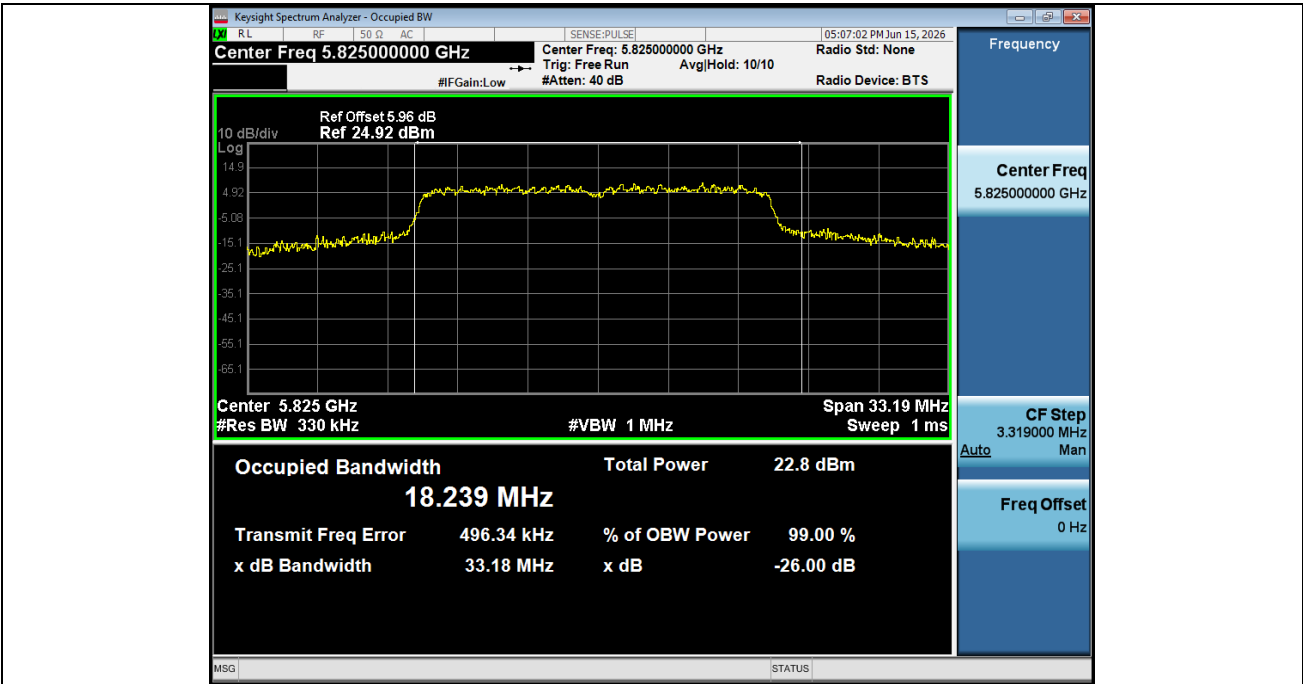
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5230



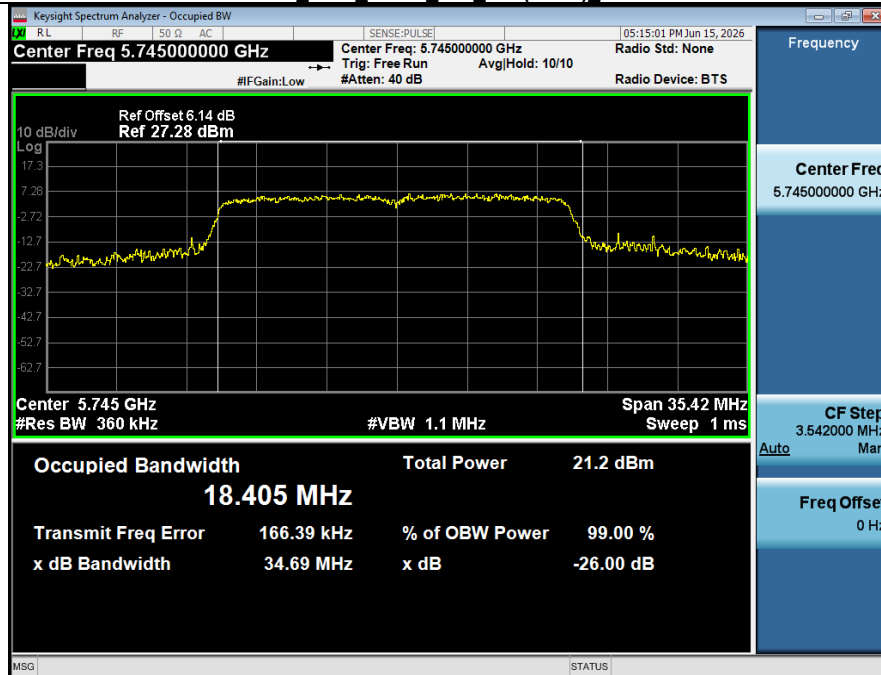
U-NII-3:



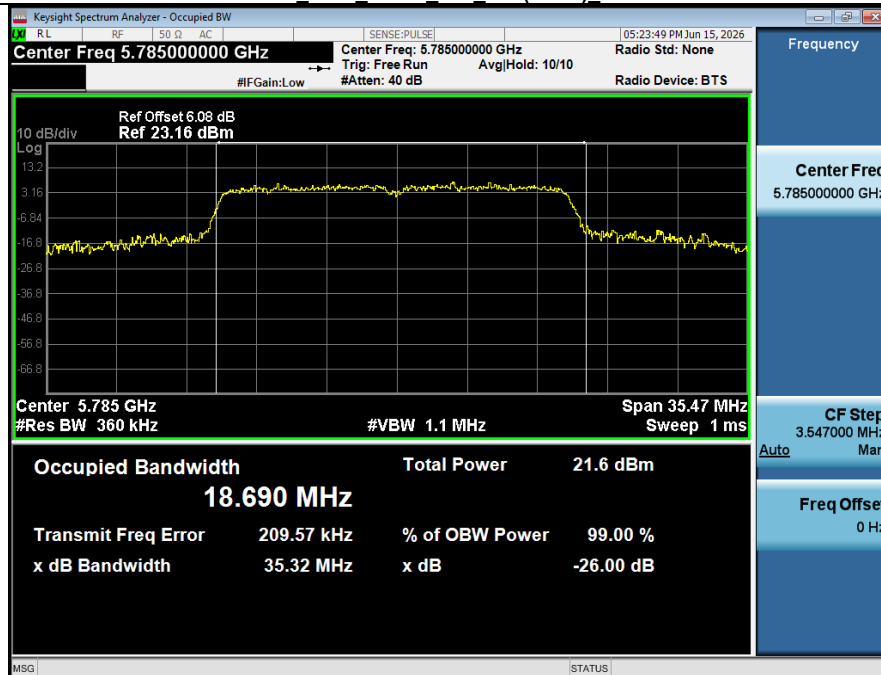
99% OCB NVNT 802 11a 5825

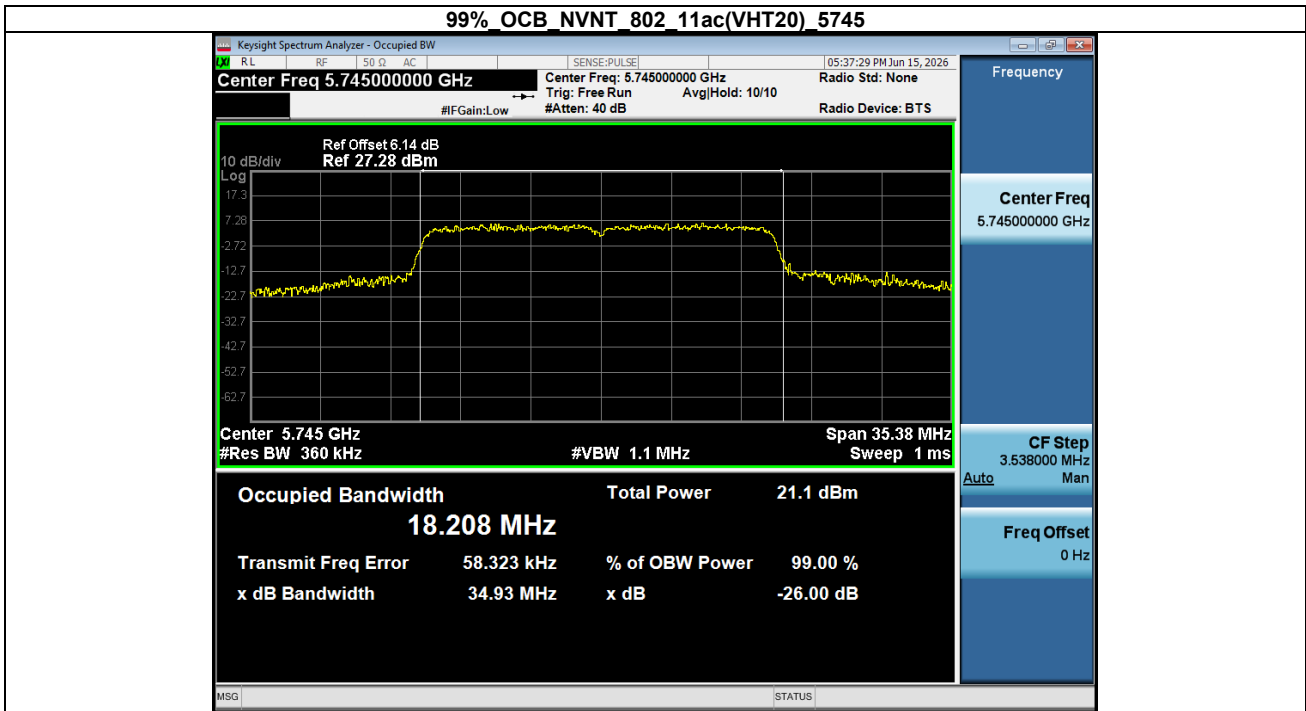
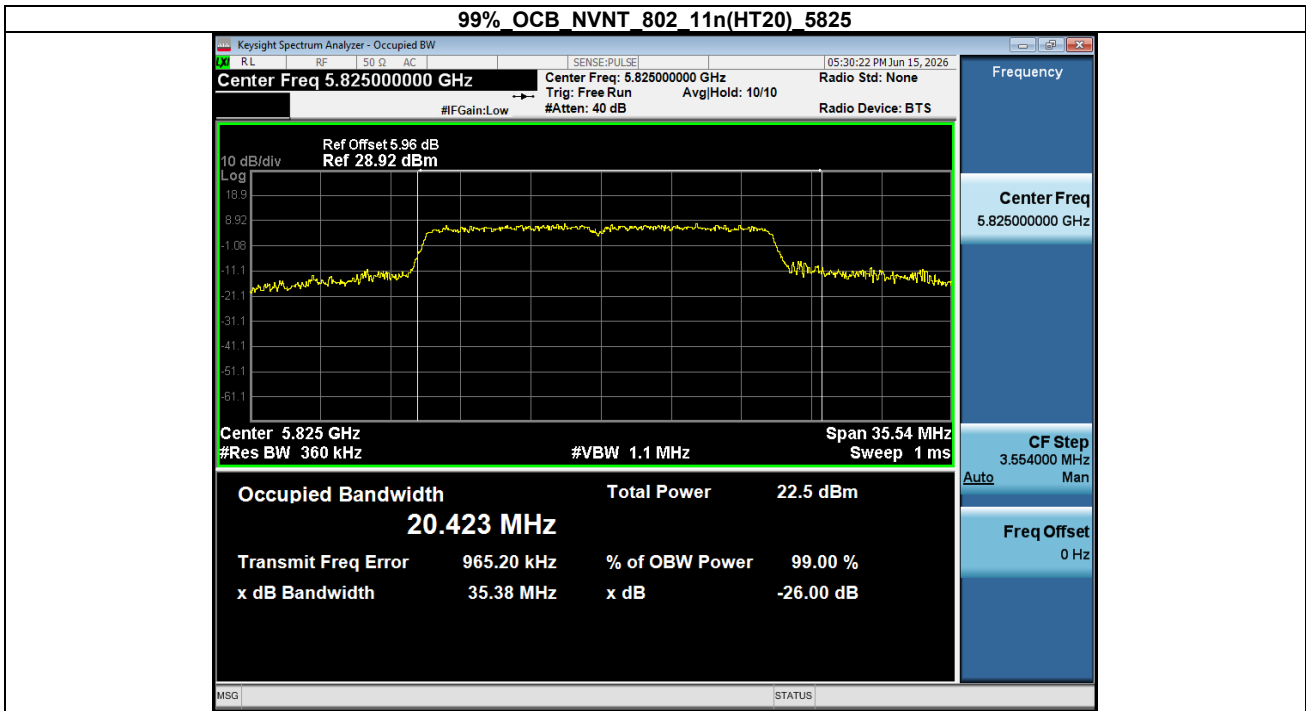


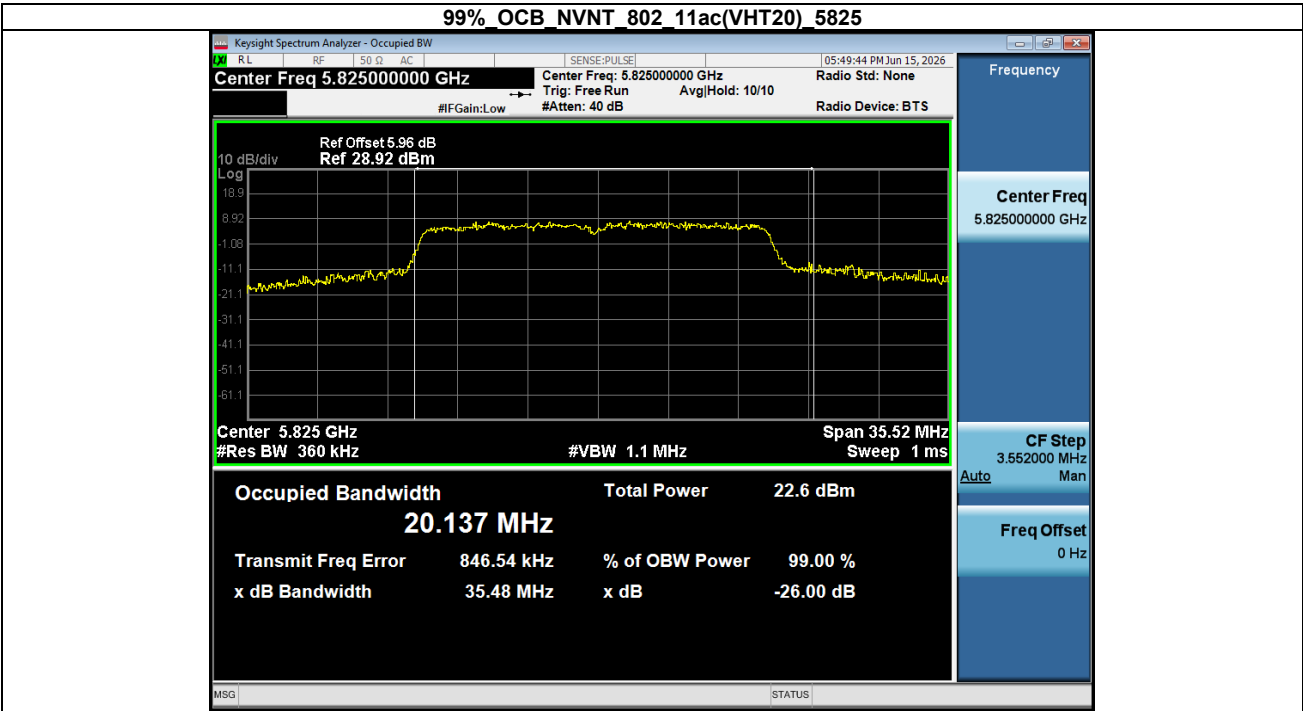
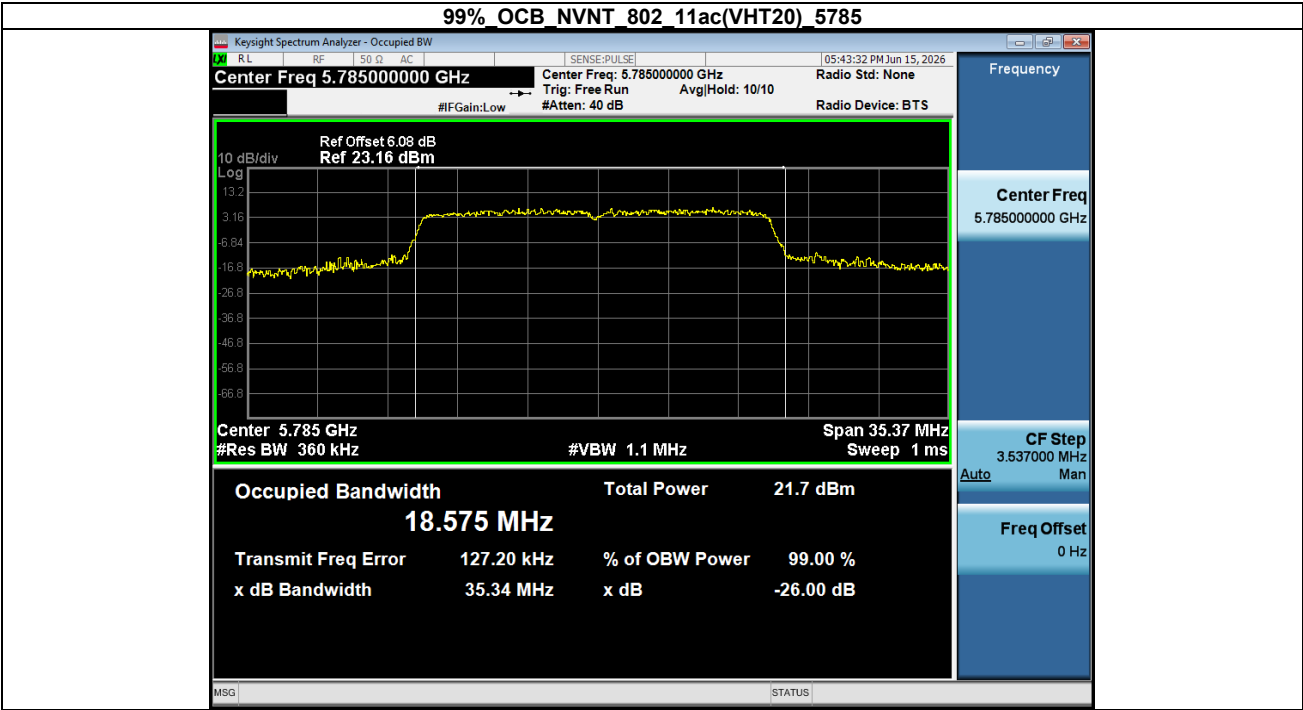
99% OCB NVNT_802_11n(HT20) 5745



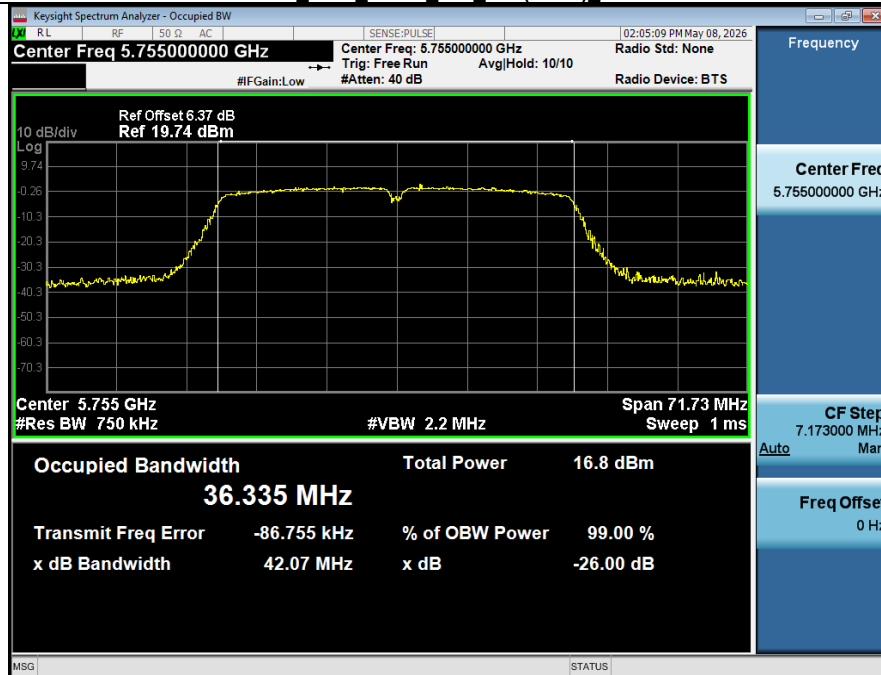
99% OCB NVNT_802_11n(HT20) 5785



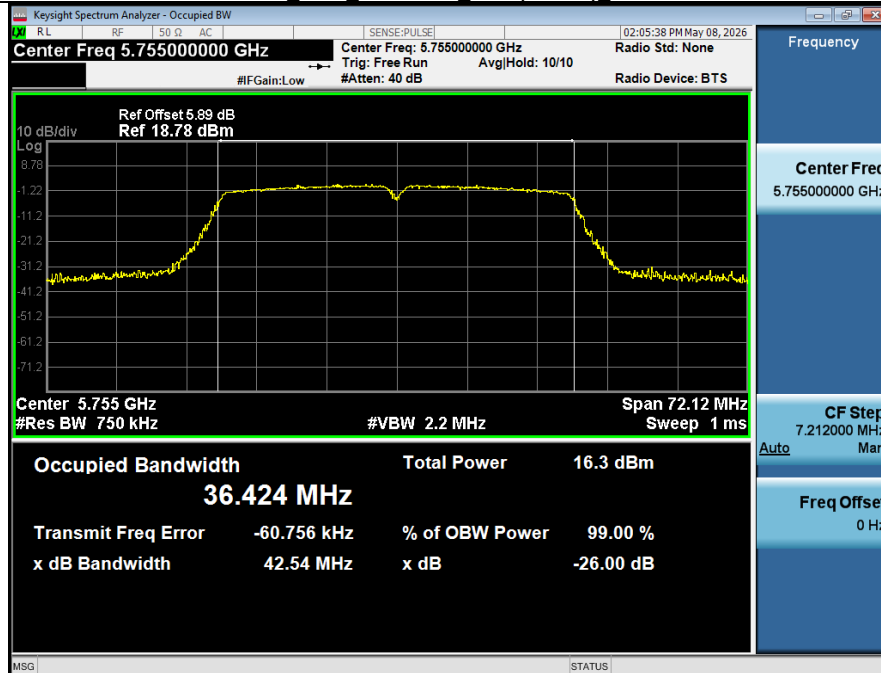




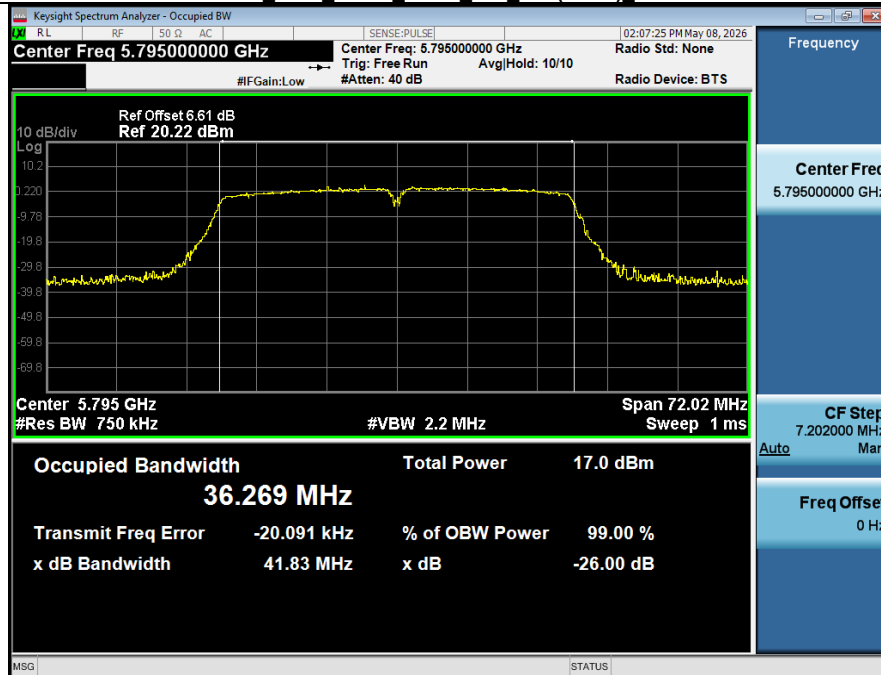
99% OCB NVNT 802_11n(HT40) 5755



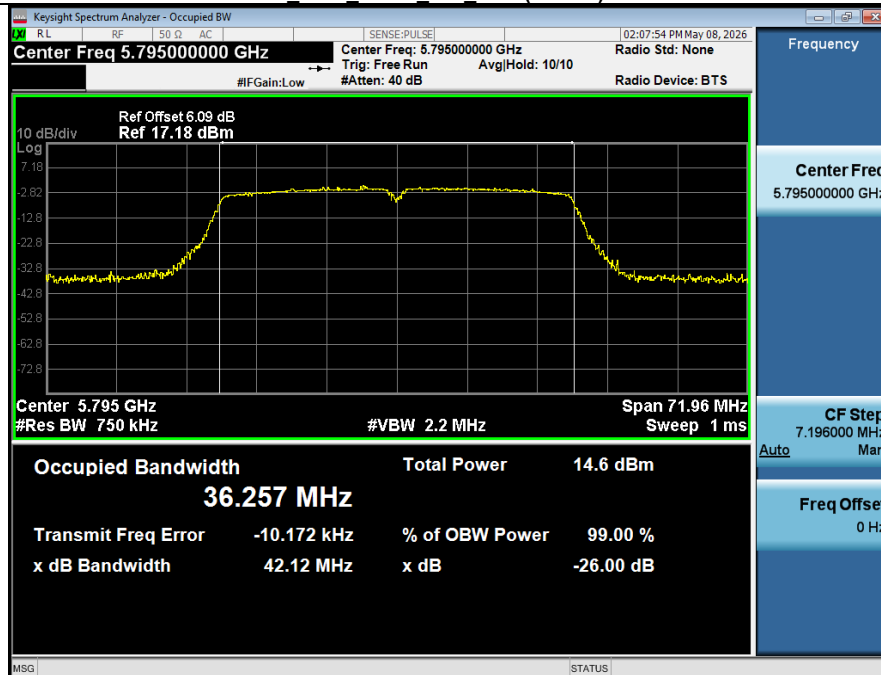
99% OCB NVNT 802_11ac(VHT40) 5755

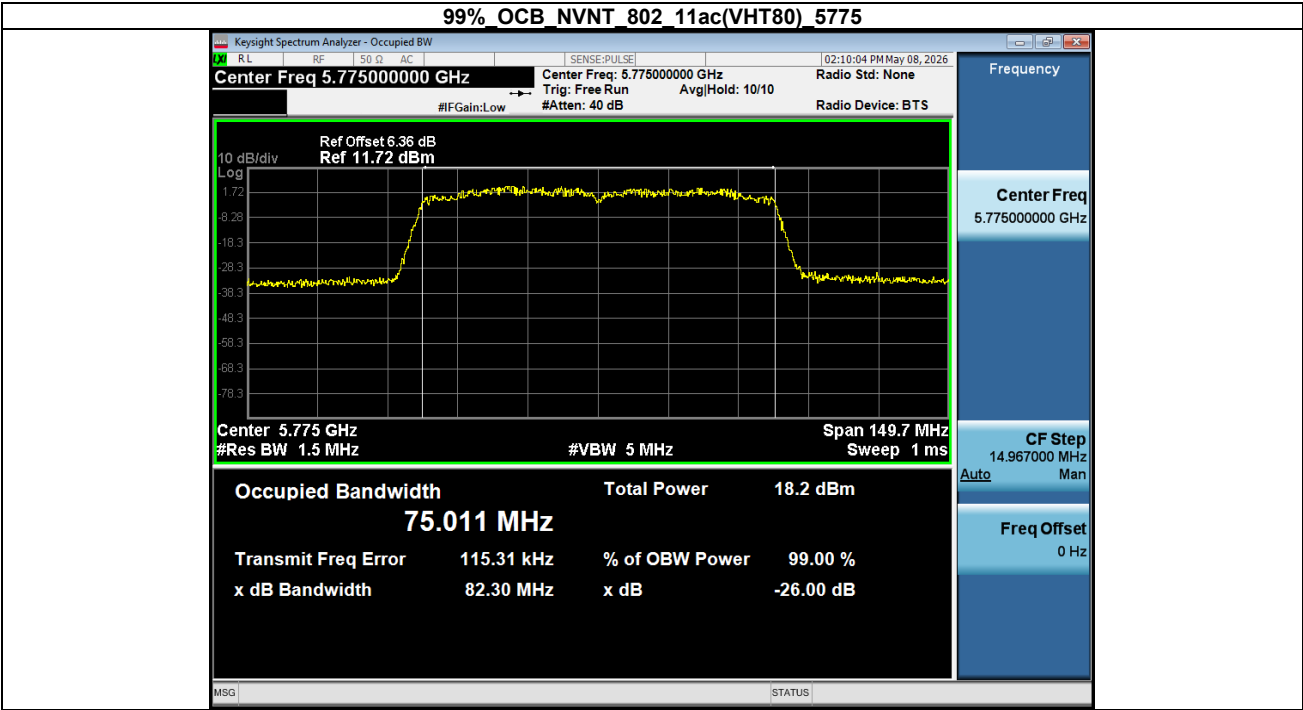


99% OCB NVNT ANT1 802 11n(HT40) 5795



99% OCB NVNT 802 11ac(VHT40) 5795



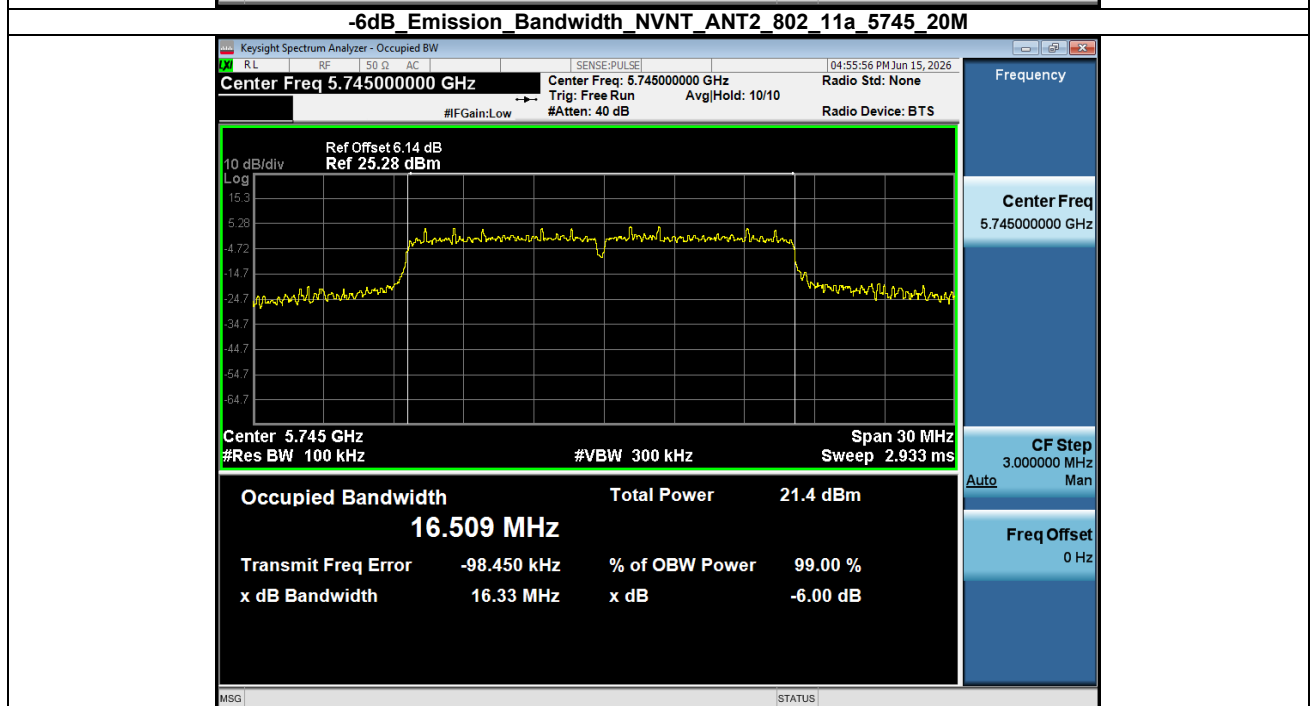
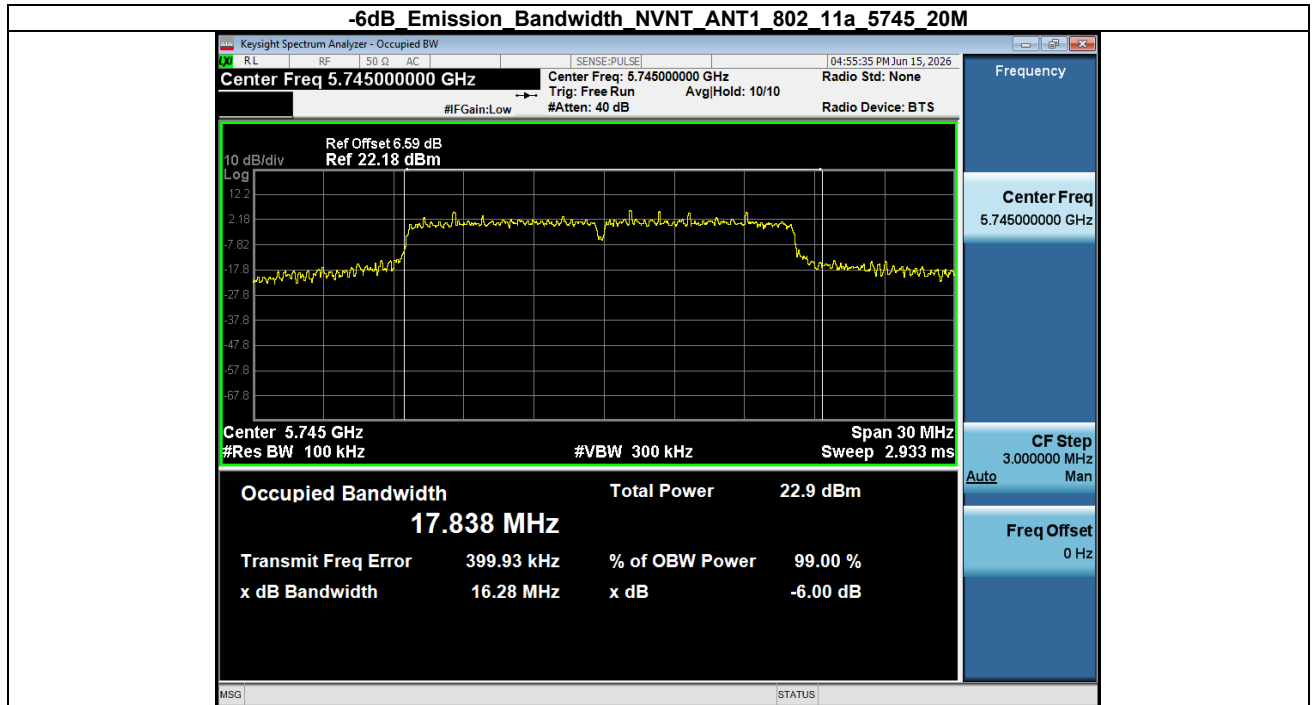


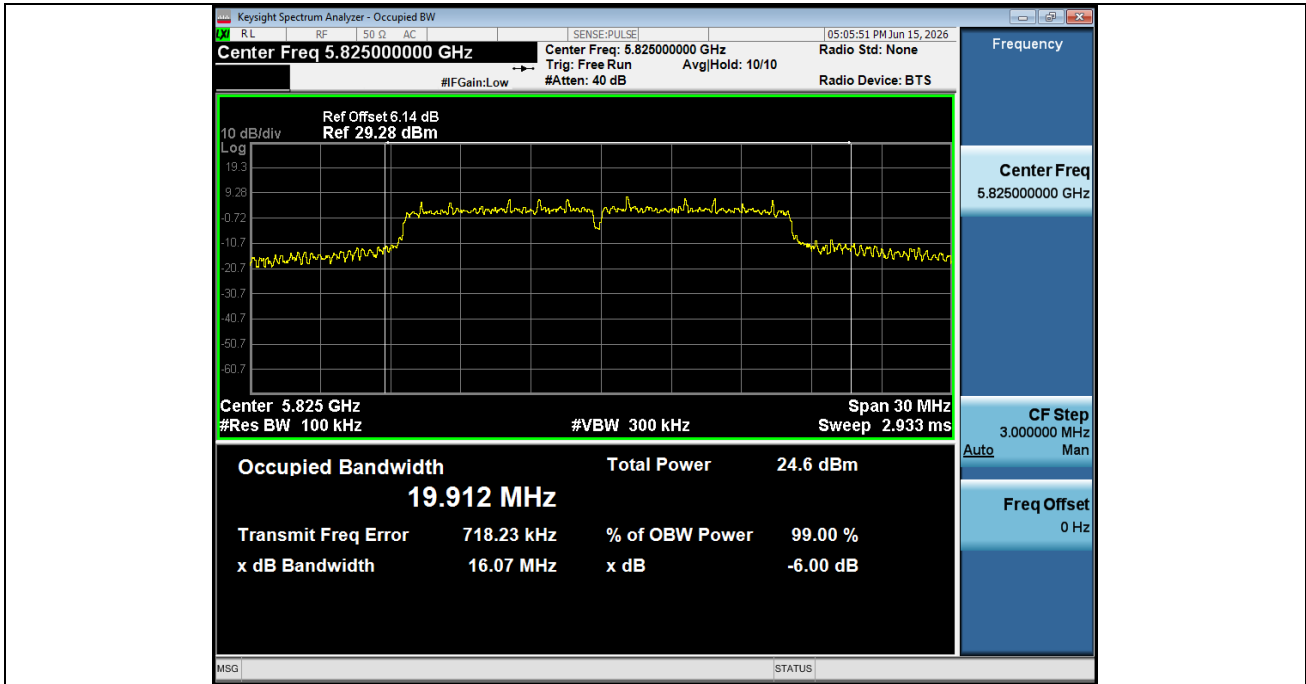
Appendix A.3: Test Results of 6dB Bandwidth

Test Result

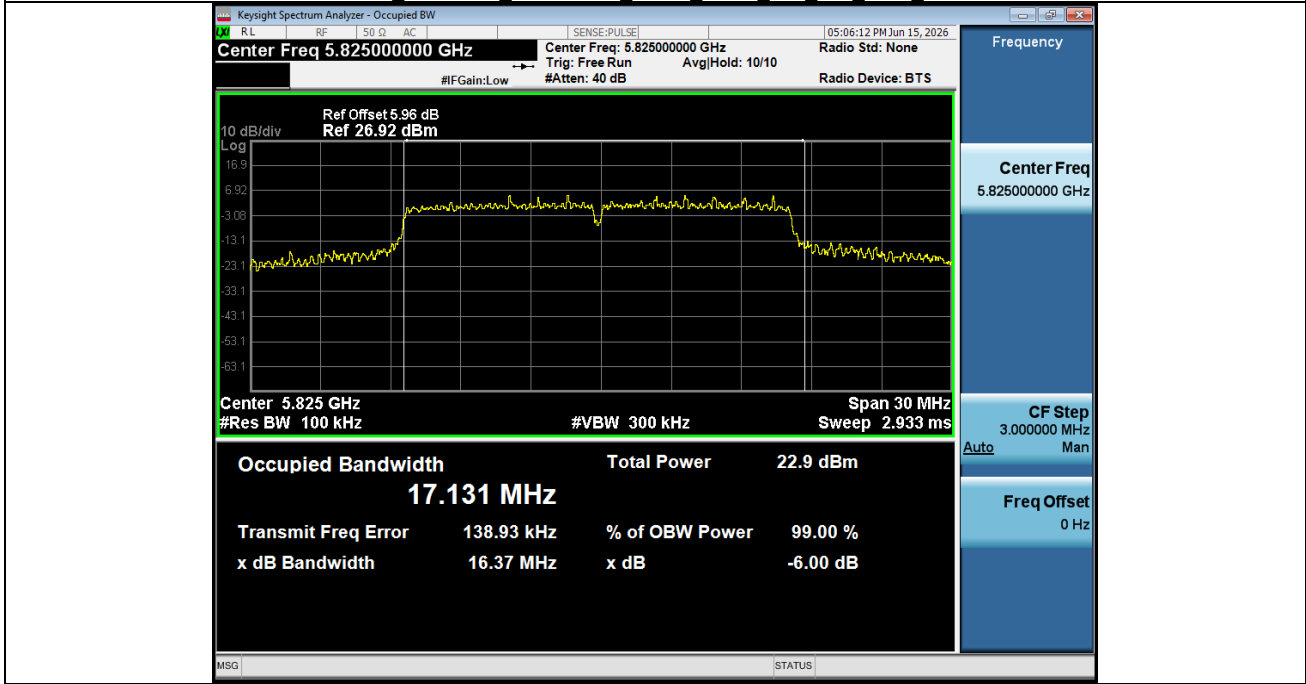
Condition	Antenna	Mode	Frequency(MHz)	-6dB Emission Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	16.279	0.500	Pass
NVNT	ANT2	802.11a	5745.00	16.330	0.500	Pass
NVNT	ANT1	802.11a	5785.00	16.302	0.500	Pass
NVNT	ANT2	802.11a	5785.00	16.344	0.500	Pass
NVNT	ANT1	802.11a	5825.00	16.071	0.500	Pass
NVNT	ANT2	802.11a	5825.00	16.368	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	16.265	0.500	Pass
NVNT	ANT2	802.11n(HT20)	5745.00	17.176	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	17.530	0.500	Pass
NVNT	ANT2	802.11n(HT20)	5785.00	16.933	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	17.288	0.500	Pass
NVNT	ANT2	802.11n(HT20)	5825.00	17.356	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	17.251	0.500	Pass
NVNT	ANT2	802.11ac(VHT20)	5745.00	17.153	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	17.532	0.500	Pass
NVNT	ANT2	802.11ac(VHT20)	5785.00	17.573	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	17.191	0.500	Pass
NVNT	ANT2	802.11ac(VHT20)	5825.00	16.931	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	33.792	0.500	Pass
NVNT	ANT2	802.11n(HT40)	5755.00	33.890	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	35.117	0.500	Pass
NVNT	ANT2	802.11n(HT40)	5795.00	33.862	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	35.107	0.500	Pass
NVNT	ANT2	802.11ac(VHT40)	5755.00	35.153	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	35.087	0.500	Pass
NVNT	ANT2	802.11ac(VHT40)	5795.00	34.953	0.500	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	71.326	0.500	Pass
NVNT	ANT2	802.11ac(VHT80)	5775.00	71.368	0.500	Pass

Test Graphs

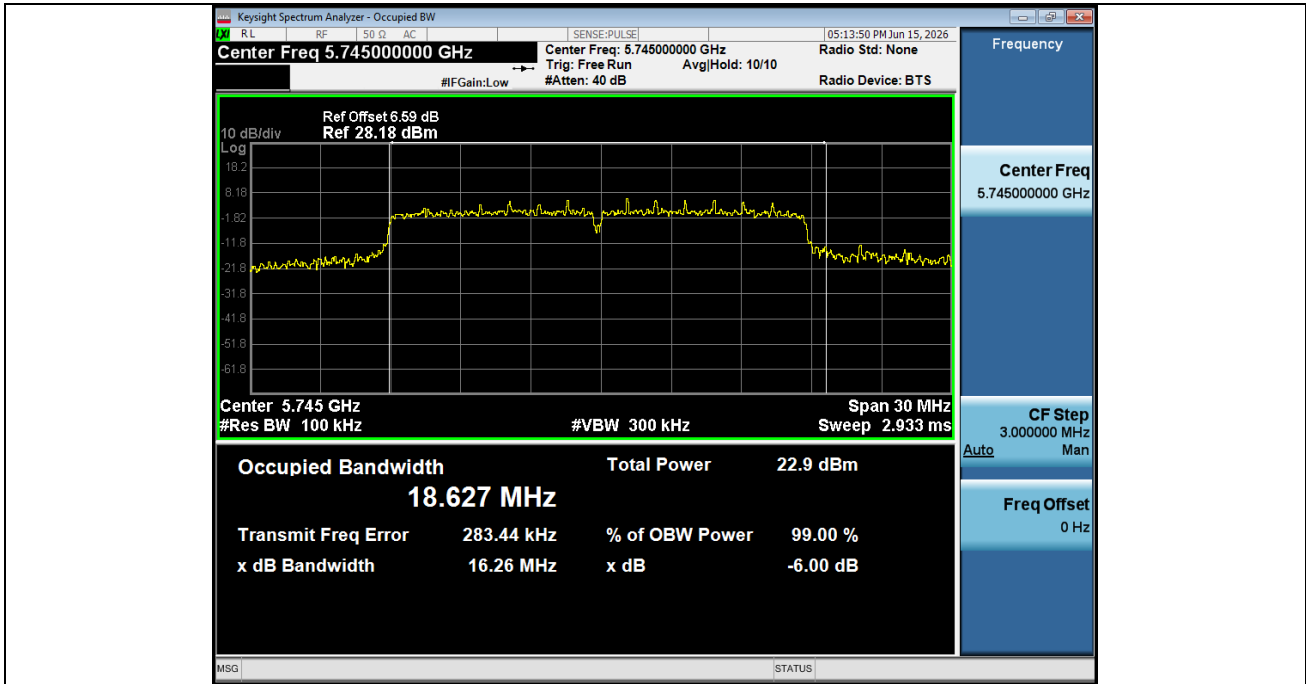




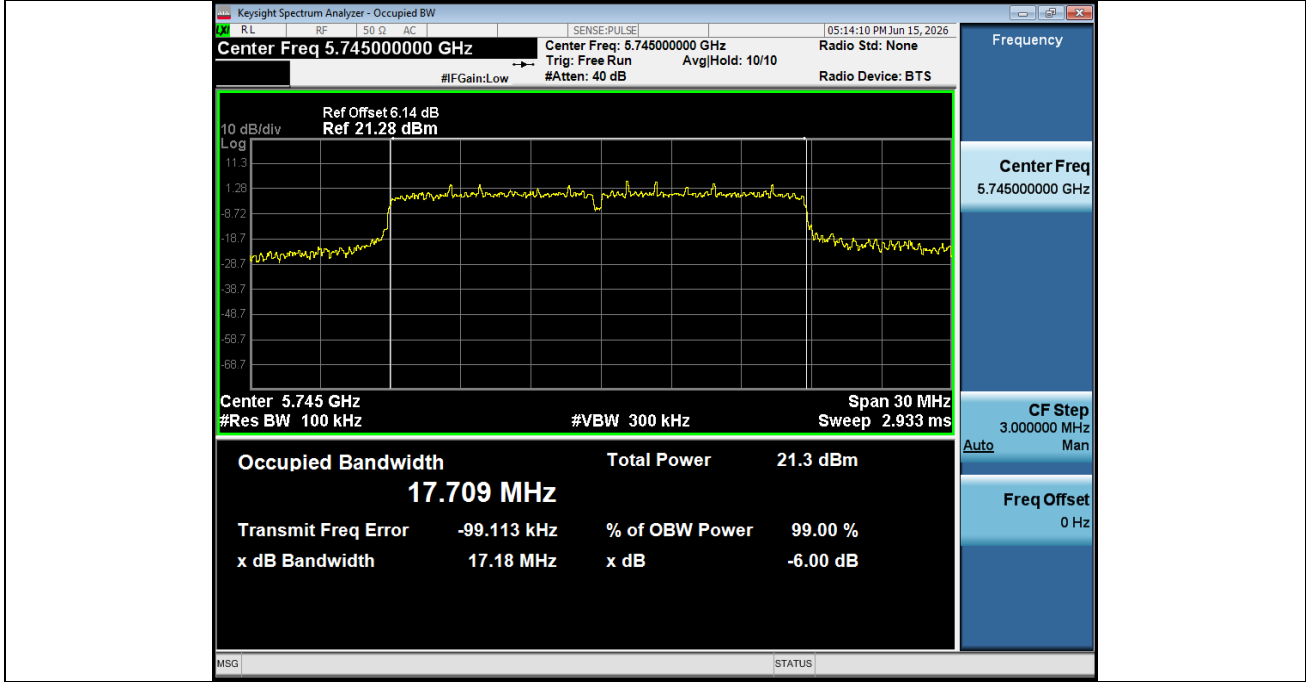
-6dB Emission Bandwidth NVNT ANT2 802 11a 5825 20M



-6dB Emission Bandwidth NVNT ANT1 802 11n(HT20) 5745 20M



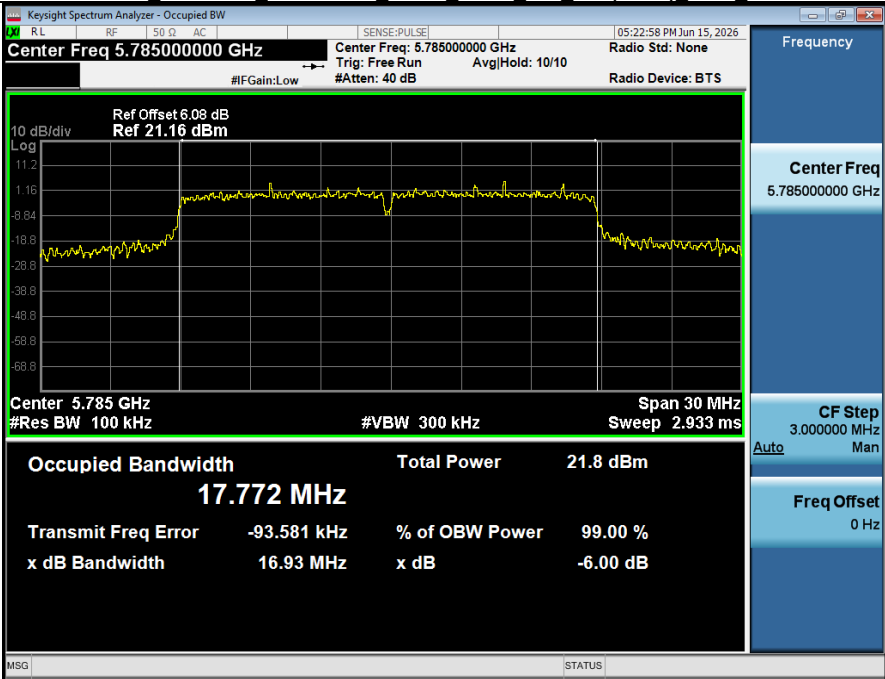
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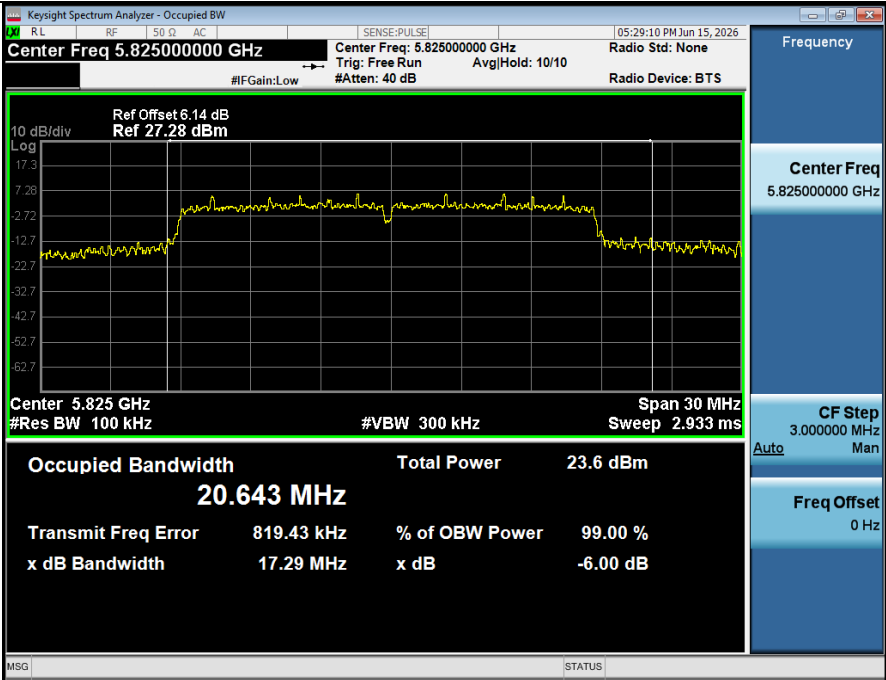
-6dB Emission Bandwidth NVNT ANT1 802 11n(HT20) 5785 20M



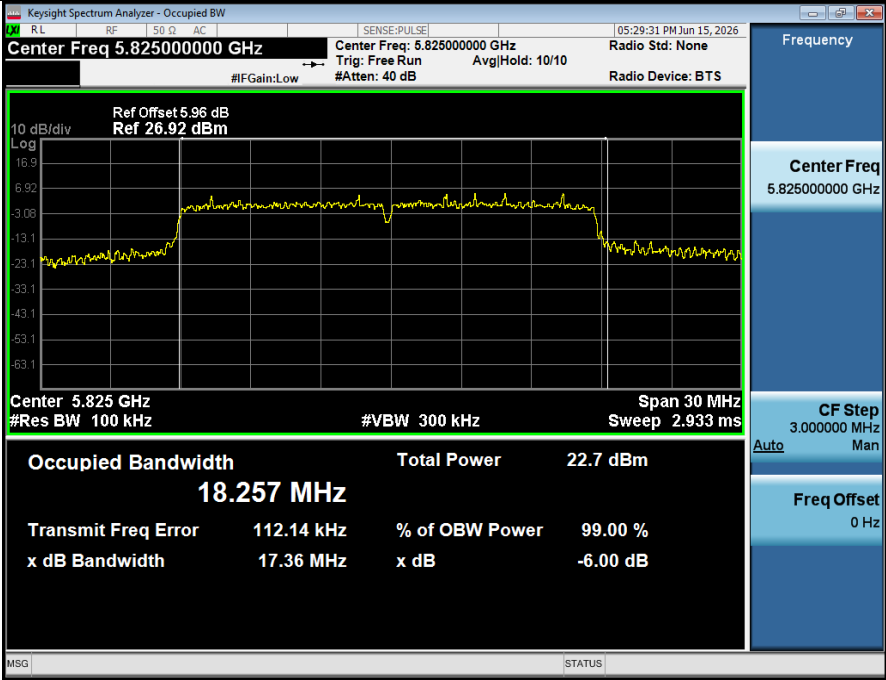
-6dB Emission Bandwidth NVNT ANT2 802 11n(HT20) 5785 20M



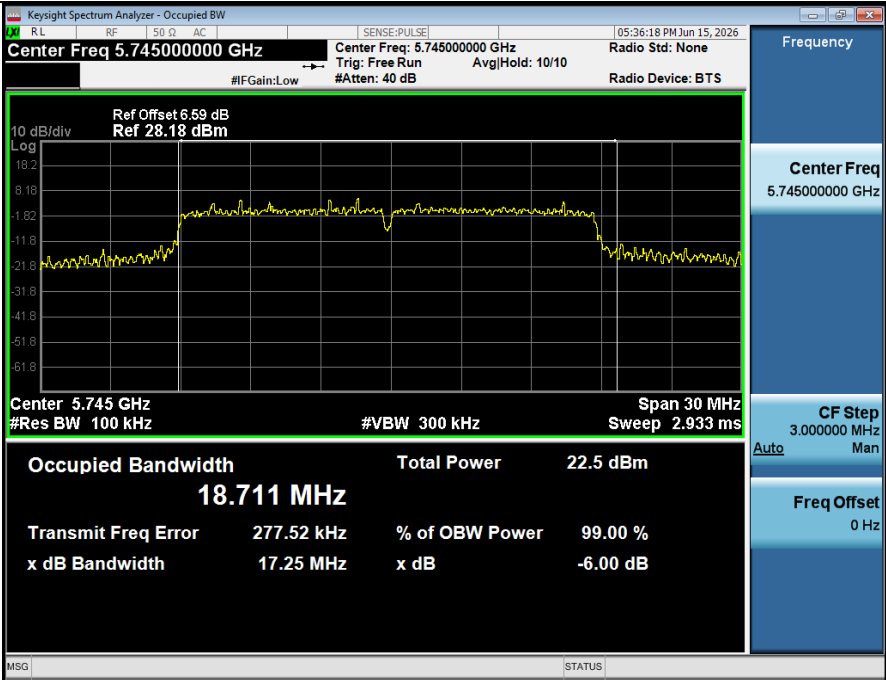
-6dB Emission Bandwidth NVNT ANT1 802 11n(HT20) 5825 20M



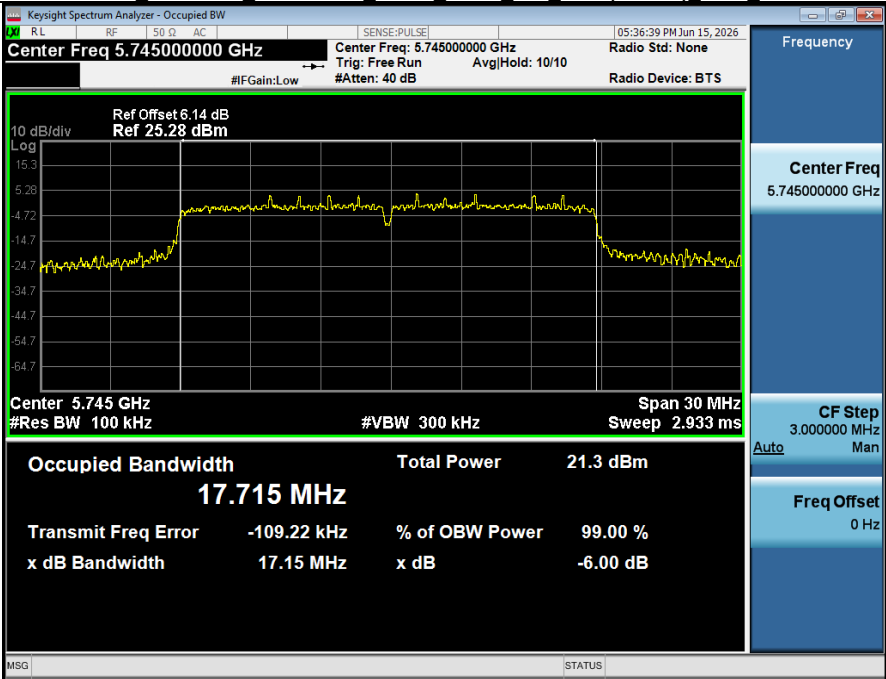
-6dB Emission Bandwidth NVNT ANT2 802 11n(HT20) 5825 20M



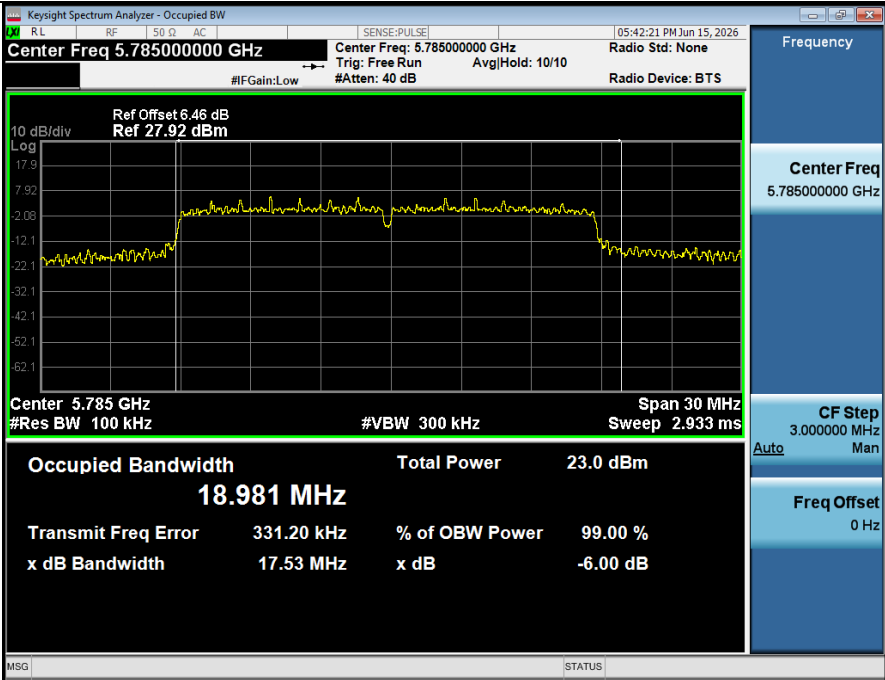
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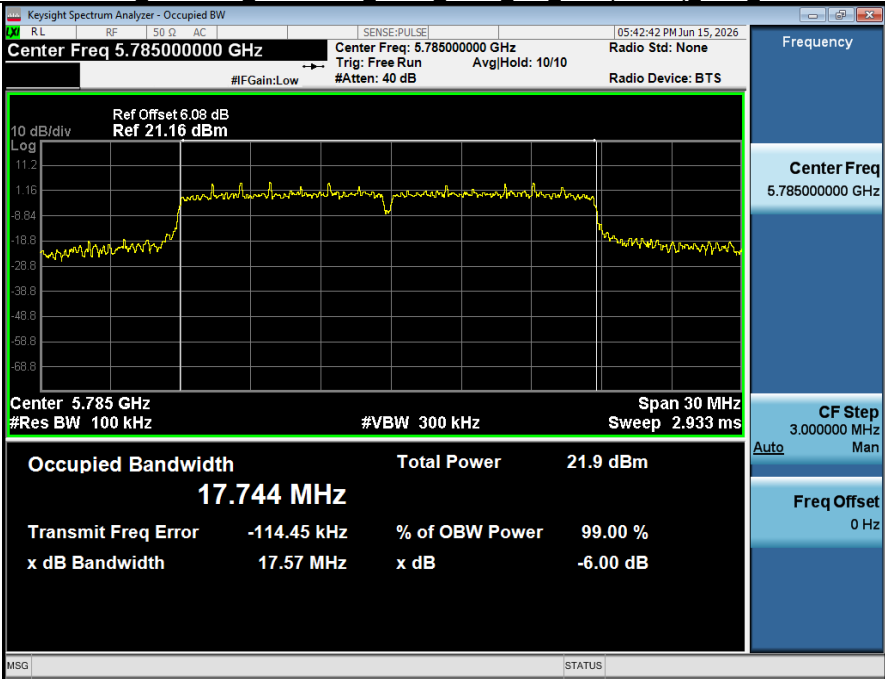
-6dB Emission Bandwidth NVNT ANT2 802 11ac(VHT20) 5745 20M



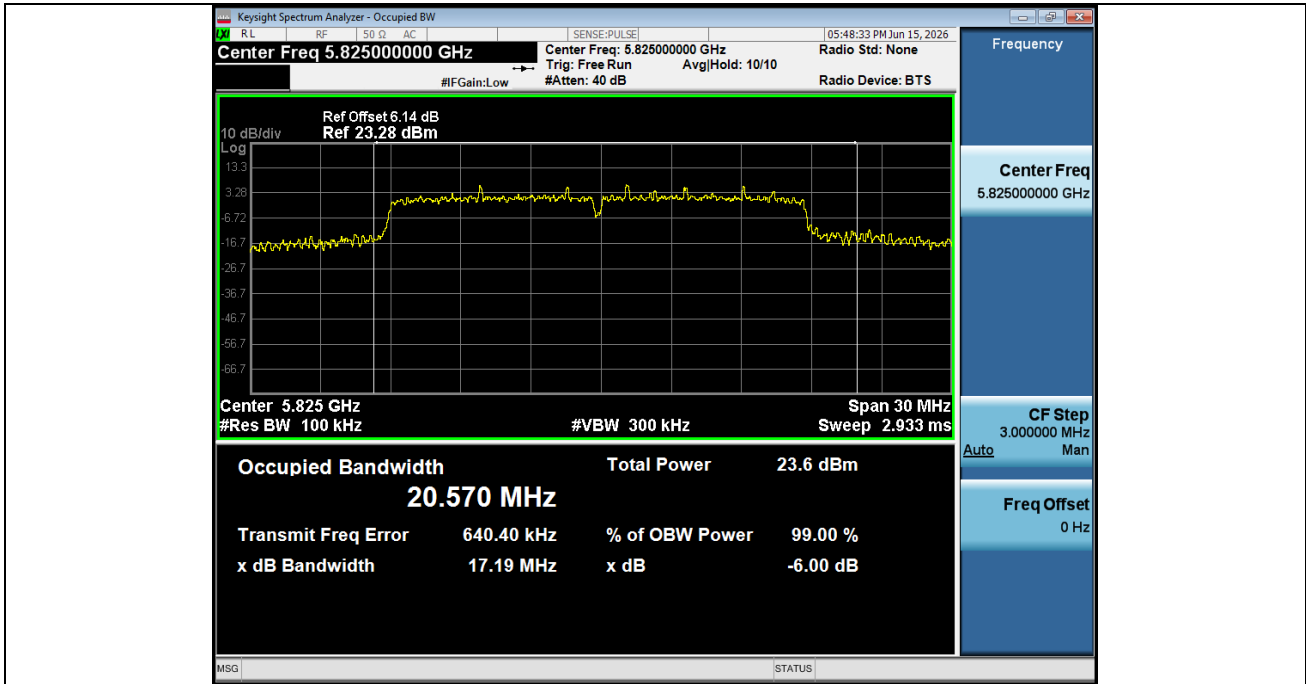
-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT20) 5785 20M



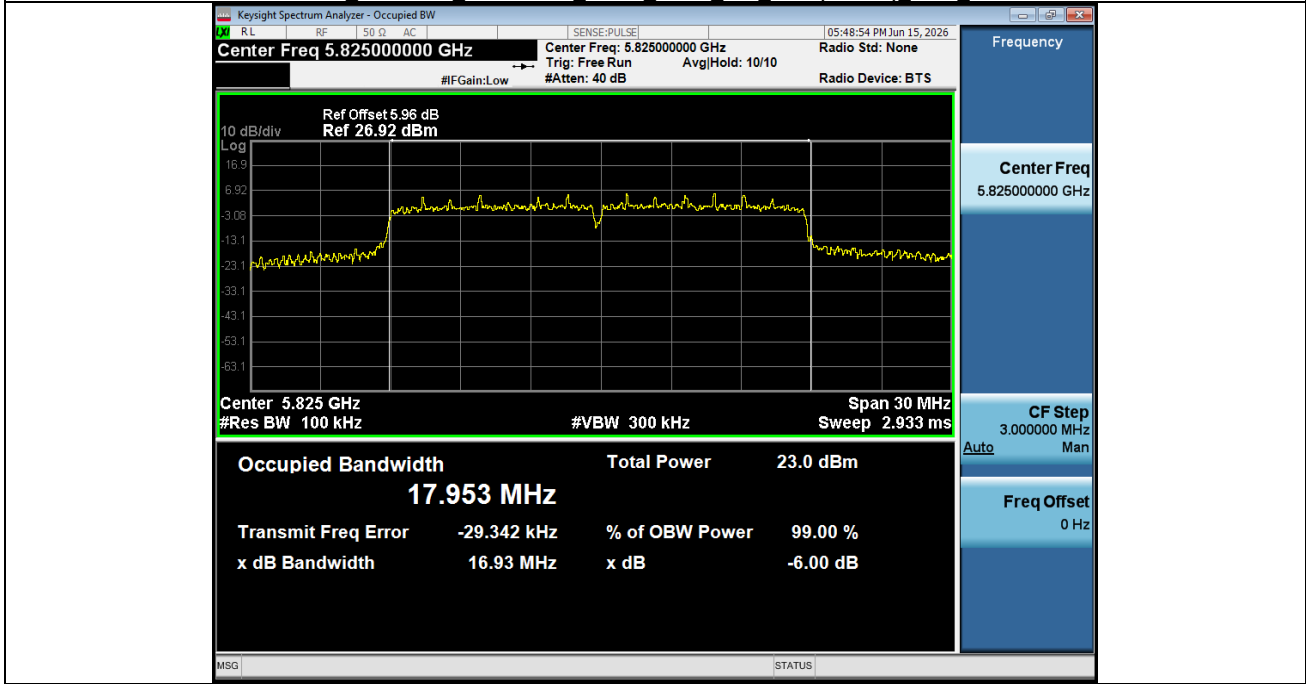
-6dB Emission Bandwidth NVNT ANT2 802 11ac(VHT20) 5785 20M



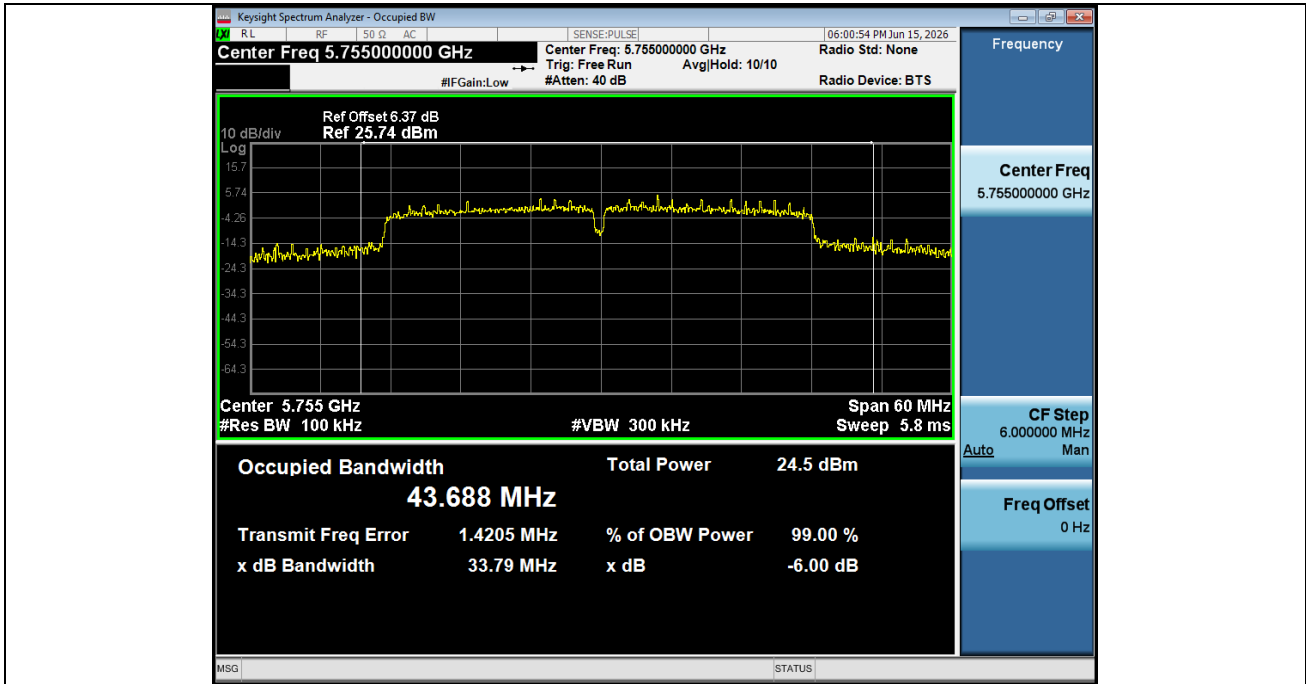
-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT20) 5825 20M



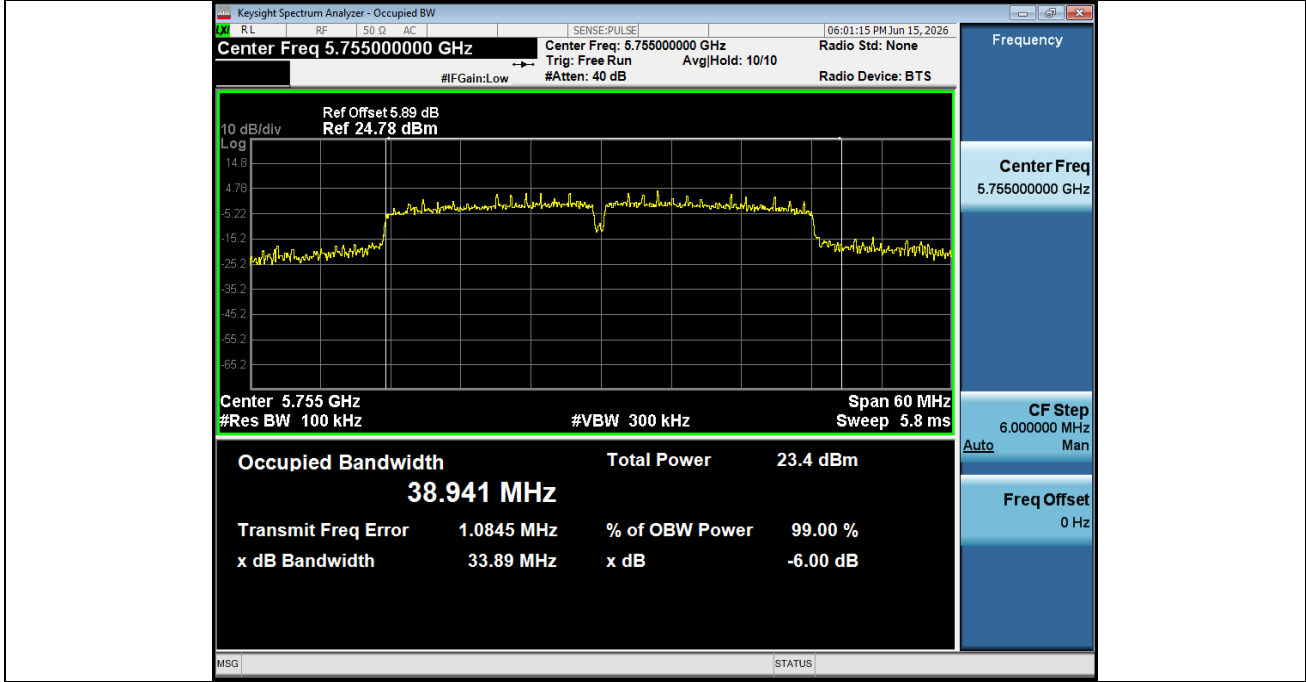
-6dB Emission Bandwidth NVNT ANT2 802 11ac(VHT20) 5825 20M



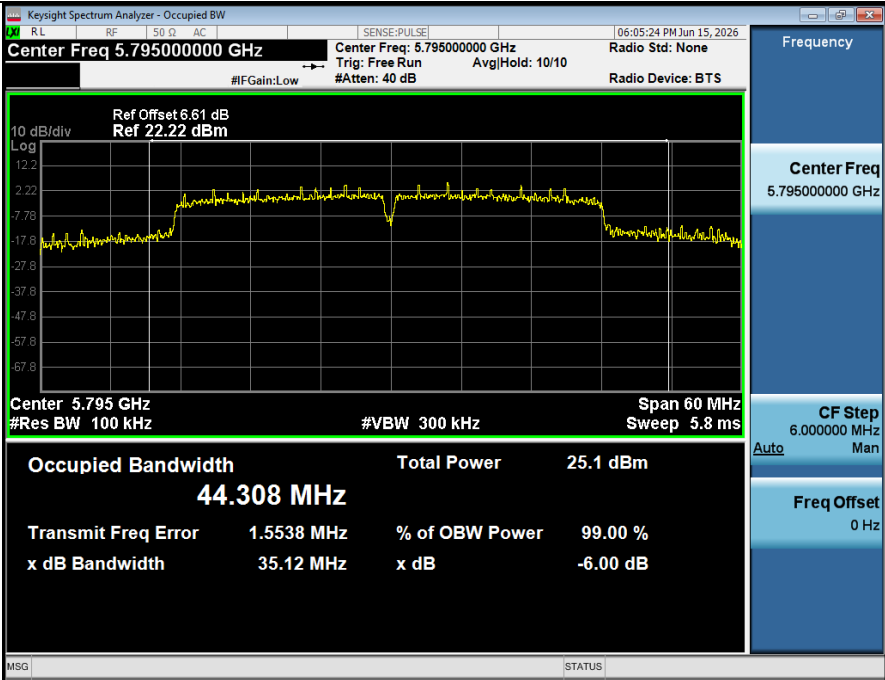
-6dB Emission Bandwidth NVNT ANT1 802 11n(HT40) 5755 40M



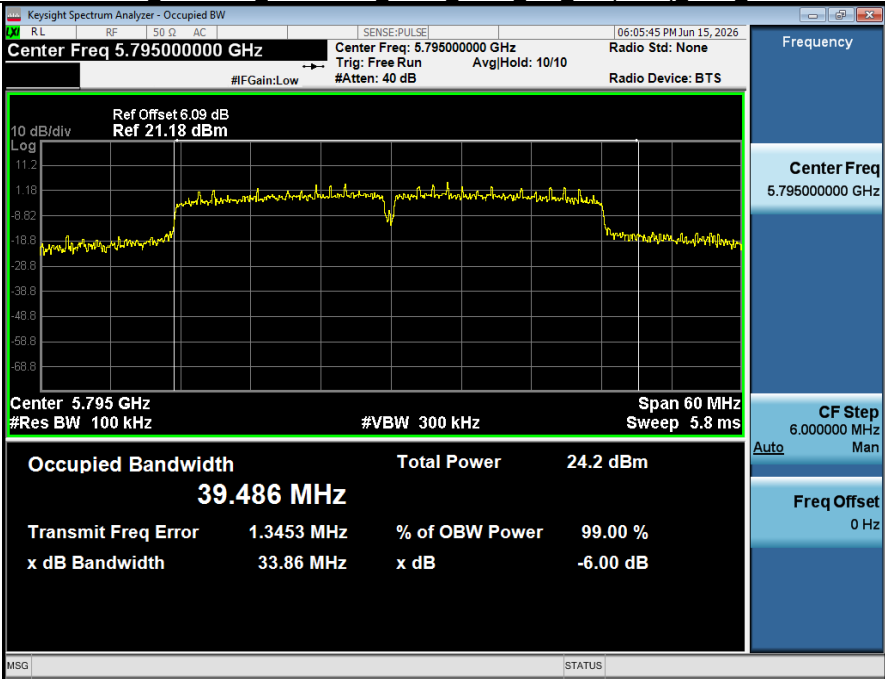
-6dB Emission Bandwidth NVNT ANT2 802 11n(HT40) 5755 40M



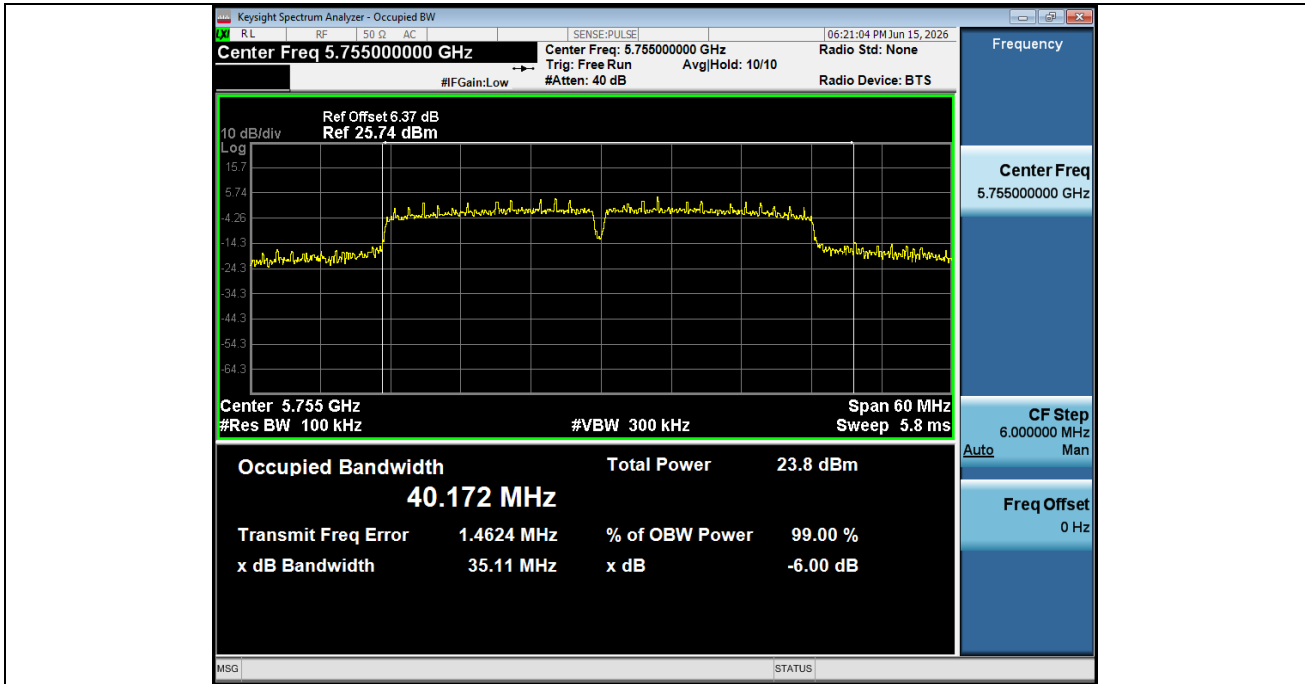
-6dB Emission Bandwidth NVNT ANT1 802 11n(HT40) 5795 40M



-6dB Emission Bandwidth NVNT ANT2 802 11n(HT40) 5795 40M



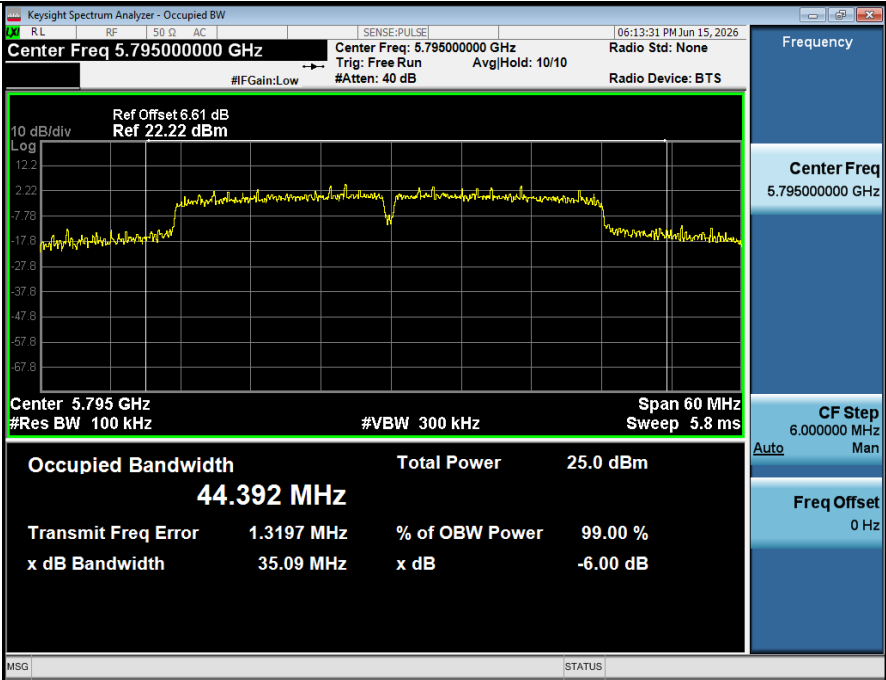
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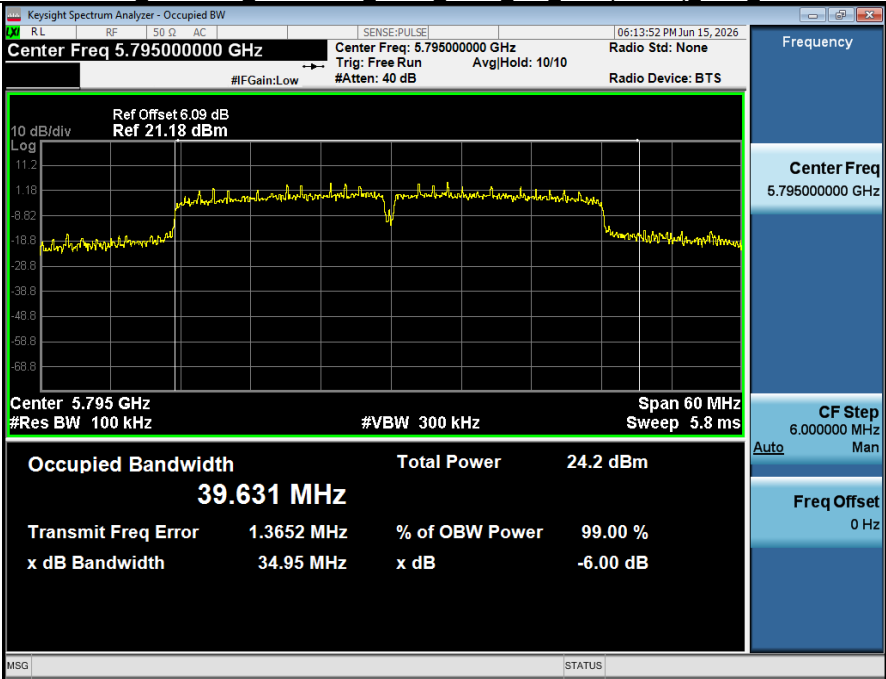
-6dB Emission Bandwidth NVNT ANT2 802 11ac(VHT40) 5755 40M



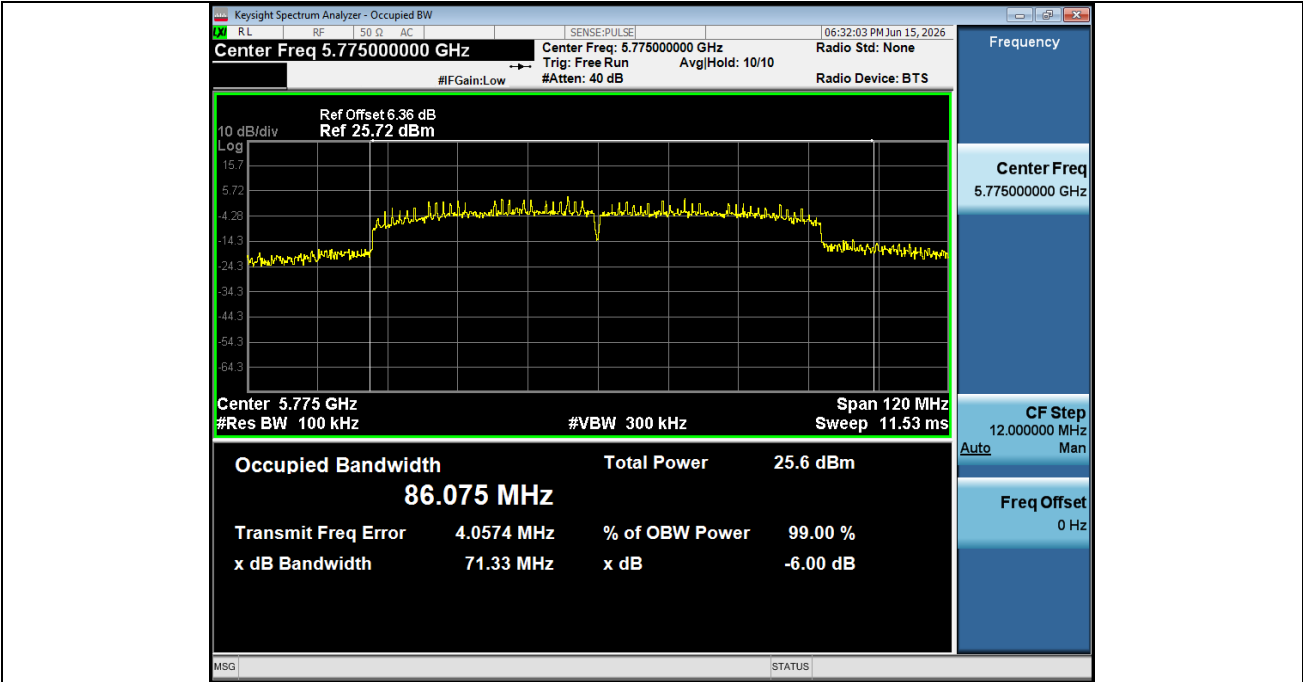
-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT40) 5795 40M



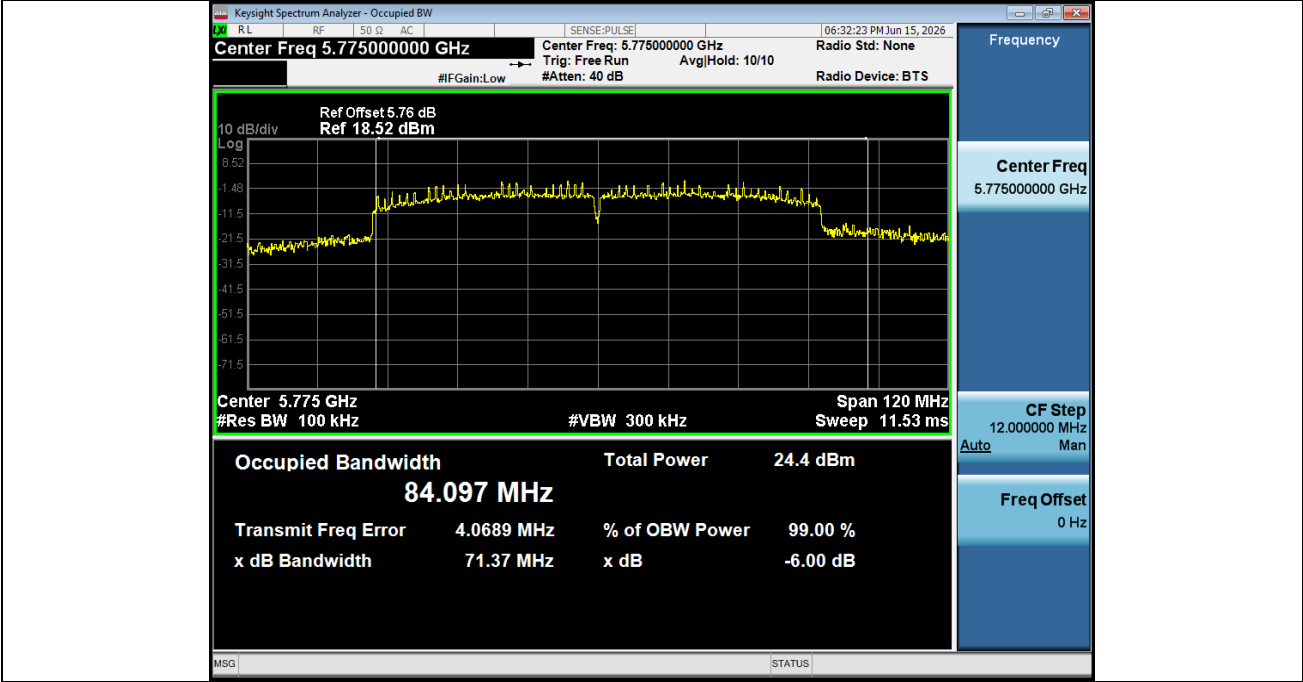
-6dB Emission Bandwidth NVNT ANT2 802 11ac(VHT40) 5795 40M



-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT80) 5775 80M



-6dB Emission Bandwidth NVNT ANT2 802 11ac(VHT80) 5775 80M



Appendix A.4: Test Results of Maximum Output Power

Test Result

U-NII-1:

Conducted Power:

Condition	Antenna	Modulation	Frequency (MHz)	Power(dBm)	FCC limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	14.62	24	Pass
NVNT	ANT2	802.11a	5180.00	14.86	24	Pass
NVNT	ANT1	802.11a	5200.00	13.47	24	Pass
NVNT	ANT2	802.11a	5200.00	14.36	24	Pass
NVNT	ANT1	802.11a	5240.00	14.15	24	Pass
NVNT	ANT2	802.11a	5240.00	13.71	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	13.45	24	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	14.50	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	13.71	24	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	14.64	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	14.01	24	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	13.48	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	13.51	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	14.74	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	13.56	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	14.76	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	13.89	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	14.00	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	15.26	24	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	16.44	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	16.18	24	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	15.73	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	15.33	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	16.31	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	16.31	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	16.17	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	16.72	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	17.54	24	Pass

Condition	Antenna	Mode	Frequency(MHz)	MIMO_Conducted_Power(dBm)	FCC Limit(dBm)	Result
NVNT	MIMO_TX	802.11n(HT20)	5180.00	17.02	24	Pass
NVNT	MIMO_TX	802.11n(HT20)	5200.00	17.21	24	Pass
NVNT	MIMO_TX	802.11n(HT20)	5240.00	16.76	24	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5180.00	17.18	24	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5200.00	17.21	24	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5240.00	16.96	24	Pass
NVNT	MIMO_TX	802.11n(HT40)	5190.00	18.90	24	Pass
NVNT	MIMO_TX	802.11n(HT40)	5230.00	18.97	24	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5190.00	18.86	24	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5230.00	19.25	24	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5210.00	19.16	24	Pass

ISED EIRP for U-NII 1 (5150-5250 MHz)

Antenna	Modulation	Frequency (MHz)	Power(dBm)	Antenna Gain (dBi)	EIRP(dBm)	ISED EIRP limit(dBm)	Result
ANT1	802.11a	5180.00	14.62	3.15	17.77	22.19	Pass
ANT2	802.11a	5180.00	14.86	2.03	16.89	22.19	Pass
ANT1	802.11a	5200.00	13.47	3.15	16.62	22.19	Pass
ANT2	802.11a	5200.00	14.36	2.03	16.39	22.19	Pass
ANT1	802.11a	5240.00	14.15	3.15	17.30	22.19	Pass
ANT2	802.11a	5240.00	13.71	2.03	15.74	22.19	Pass
ANT1	802.11n(HT20)	5180.00	13.45	3.15	16.60	22.50	Pass
ANT2	802.11n(HT20)	5180.00	14.50	2.03	16.53	22.50	Pass
ANT1	802.11n(HT20)	5200.00	13.71	3.15	16.86	22.50	Pass
ANT2	802.11n(HT20)	5200.00	14.64	2.03	16.67	22.50	Pass
ANT1	802.11n(HT20)	5240.00	14.01	3.15	17.16	22.50	Pass
ANT2	802.11n(HT20)	5240.00	13.48	2.03	15.51	22.50	Pass
ANT1	802.11ac(VHT20)	5180.00	13.51	3.15	16.66	22.52	Pass
ANT2	802.11ac(VHT20)	5180.00	14.74	2.03	16.77	22.52	Pass
ANT1	802.11ac(VHT20)	5200.00	13.56	3.15	16.71	22.52	Pass
ANT2	802.11ac(VHT20)	5200.00	14.76	2.03	16.79	22.52	Pass
ANT1	802.11ac(VHT20)	5240.00	13.89	3.15	17.04	22.52	Pass
ANT2	802.11ac(VHT20)	5240.00	14.00	2.03	16.03	23.00	Pass
ANT1	802.11n(HT40)	5190.00	15.26	3.15	18.41	23.00	Pass
ANT2	802.11n(HT40)	5190.00	16.44	2.03	18.47	23.00	Pass
ANT1	802.11n(HT40)	5230.00	16.18	3.15	19.33	23.00	Pass
ANT2	802.11n(HT40)	5230.00	15.73	2.03	17.76	23.00	Pass
ANT1	802.11ac(VHT40)	5190.00	15.33	3.15	18.48	23.00	Pass
ANT2	802.11ac(VHT40)	5190.00	16.31	2.03	18.34	23.00	Pass
ANT1	802.11ac(VHT40)	5230.00	16.31	3.15	19.46	23.00	Pass
ANT2	802.11ac(VHT40)	5230.00	16.17	2.03	18.2	23.00	Pass
ANT1	802.11ac(VHT80)	5210.00	16.72	3.15	18.87	23.00	Pass
ANT2	802.11ac(VHT80)	5210.00	16.54	2.03	18.57	23.00	Pass

Antenna	Mode	Frequency (MHz)	Power(dBm)	Antenna Gain (dBi)	EIRP (dBm)	ISED EIRP limit(dBm)	Result
MIMO_TX	802.11n(HT20)	5180.00	17.02	3.15	20.17	22.50	Pass
MIMO_TX	802.11n(HT20)	5200.00	17.21	3.15	20.36	22.50	Pass
MIMO_TX	802.11n(HT20)	5240.00	16.76	3.15	19.91	22.50	Pass
MIMO_TX	802.11ac(VHT20)	5180.00	17.18	3.15	20.33	22.52	Pass
MIMO_TX	802.11ac(VHT20)	5200.00	17.21	3.15	20.36	22.52	Pass
MIMO_TX	802.11ac(VHT20)	5240.00	16.96	3.15	20.11	22.52	Pass
MIMO_TX	802.11n(HT40)	5190.00	18.90	3.15	22.05	23.00	Pass
MIMO_TX	802.11n(HT40)	5230.00	18.97	3.15	22.12	23.00	Pass
MIMO_TX	802.11ac(VHT40)	5190.00	18.86	3.15	22.01	23.00	Pass
MIMO_TX	802.11ac(VHT40)	5230.00	19.25	3.15	22.40	23.00	Pass
MIMO_TX	802.11ac(VHT80)	5210.00	19.16	3.15	22.31	23.00	Pass

Note:

- 1) The Duty Cycle Factor is compensated in the graph.
- 2); e.i.r.p.=P(Conducted power)+ G
- 3) B is the 99% emission bandwidth in MHz

U-NII-3:

Conducted Power:

Condition	Antenna	Modulation	Frequency (MHz)	Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	13.29	30	Pass
NVNT	ANT2	802.11a	5745.00	14.47	30	Pass
NVNT	ANT1	802.11a	5785.00	16.22	30	Pass
NVNT	ANT2	802.11a	5785.00	15.37	30	Pass
NVNT	ANT1	802.11a	5825.00	16.74	30	Pass
NVNT	ANT2	802.11a	5825.00	16.16	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	15.53	30	Pass
NVNT	ANT2	802.11n(HT20)	5745.00	14.14	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	16.81	30	Pass
NVNT	ANT2	802.11n(HT20)	5785.00	15.33	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	16.85	30	Pass
NVNT	ANT2	802.11n(HT20)	5825.00	16.06	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	16.18	30	Pass
NVNT	ANT2	802.11ac(VHT20)	5745.00	14.71	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	16.38	30	Pass
NVNT	ANT2	802.11ac(VHT20)	5785.00	15.43	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	16.77	30	Pass
NVNT	ANT2	802.11ac(VHT20)	5825.00	16.30	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	17.21	30	Pass
NVNT	ANT2	802.11n(HT40)	5755.00	15.96	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	17.05	30	Pass
NVNT	ANT2	802.11n(HT40)	5795.00	16.99	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	16.84	30	Pass
NVNT	ANT2	802.11ac(VHT40)	5755.00	16.29	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	17.45	30	Pass
NVNT	ANT2	802.11ac(VHT40)	5795.00	17.13	30	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	17.47	30	Pass
NVNT	ANT2	802.11ac(VHT80)	5775.00	17.28	30	Pass

Condition	Antenna	Mode	Frequency(MHz)	MIMO_Conducted_Power(dBm)	Limit(dBm)	Result
NVNT	MIMO_TX	802.11n(HT20)	5745.00	17.90	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5785.00	19.14	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5825.00	19.48	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5745.00	18.51	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5785.00	18.95	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5825.00	19.55	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5755.00	19.64	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5795.00	20.03	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5755.00	19.58	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5795.00	20.31	30	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5775.00	20.39	30	Pass

Note:

- 1) The Duty Cycle Factor is compensated in the graph.
- 2); e.i.r.p.=P(Conducted power)+ G, Max EIRP=20.39 dBm+5.19dBi=25.58dBm, less than 36dBm(4W)
- 3) B is the 99% emission bandwidth in MHz

Appendix A.5: Test Results of Conducted Power Spectral Density

Test Result

U-NII-1:

Conducted Power

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-6.49	1.60	-4.89	11	Pass
NVNT	ANT2	802.11a	5180.00	-1.54	0.36	-1.18	11	Pass
NVNT	ANT1	802.11a	5200.00	-1.75	0.44	-1.31	11	Pass
NVNT	ANT2	802.11a	5200.00	-2.08	0.40	-1.68	11	Pass
NVNT	ANT1	802.11a	5240.00	-0.72	0.32	-0.40	11	Pass
NVNT	ANT2	802.11a	5240.00	-1.04	0.36	-0.68	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-4.43	0.31	-4.13	11	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	-1.62	0.26	-1.36	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-3.92	0.43	-3.49	11	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	-2.15	0.47	-1.68	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-4.54	0.22	-4.32	11	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	-3.06	0.47	-2.59	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-6.70	0.51	-6.19	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	-3.10	0.43	-2.67	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-2.40	0.47	-1.93	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	-2.68	0.34	-2.34	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-3.27	0.35	-2.92	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	-2.60	0.55	-2.05	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-5.85	0.44	-5.41	11	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	-5.83	0.52	-5.30	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-7.52	0.68	-6.84	11	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	-8.61	0.44	-8.17	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-7.85	0.60	-7.25	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	-5.95	0.84	-5.11	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-5.97	0.68	-5.29	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	-6.60	0.84	-5.76	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-15.26	0.00	-15.26	11	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	-14.82	0.00	-14.82	11	Pass

Condition	Antenna	Mode	Frequency (MHz)	MIMO PSD(dBm/MHz)	Limit(dBm/MHz)	Result
NVNT	MIMO_TX	802.11n(HT20)	5180.00	-0.20	11	Pass
NVNT	MIMO_TX	802.11n(HT20)	5200.00	-0.38	11	Pass
NVNT	MIMO_TX	802.11n(HT20)	5240.00	-0.76	11	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5180.00	-1.30	11	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5200.00	0.51	11	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5240.00	-0.07	11	Pass
NVNT	MIMO_TX	802.11n(HT40)	5190.00	-3.37	11	Pass
NVNT	MIMO_TX	802.11n(HT40)	5230.00	-4.86	11	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5190.00	-3.18	11	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5230.00	-3.66	11	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5210.00	-13.10	11	Pass

(U-NII-1) ISED EIRP (dBm/MHz)

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)	ISED EIRP limit (dBm/MHz)	Result
NVNT	ANT1	802.11a	5180.00	-4.89	3.15	-1.74	10	Pass
NVNT	ANT2	802.11a	5180.00	-1.18	2.03	0.85	10	Pass
NVNT	ANT1	802.11a	5200.00	-1.31	3.15	1.84	10	Pass
NVNT	ANT2	802.11a	5200.00	-1.68	2.03	0.35	10	Pass
NVNT	ANT1	802.11a	5240.00	-0.40	3.15	2.75	10	Pass
NVNT	ANT2	802.11a	5240.00	-0.68	2.03	1.35	10	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-4.13	3.15	-0.98	10	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	-1.36	2.03	0.67	10	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-3.49	3.15	-0.34	10	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	-1.68	2.03	0.35	10	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-4.32	3.15	-1.17	10	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	-2.59	2.03	-0.56	10	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-6.19	3.15	-3.04	10	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	-2.67	2.03	-0.64	10	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-1.93	3.15	1.22	10	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	-2.34	2.03	-0.31	10	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-2.92	3.15	0.23	10	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	-2.05	2.03	-0.02	10	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-5.41	3.15	-2.26	10	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	-5.30	2.03	-3.27	10	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-6.84	3.15	-3.69	10	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	-8.17	2.03	-6.14	10	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-7.25	3.15	-4.10	10	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	-5.11	2.03	-3.08	10	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-5.29	3.15	-2.14	10	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	-5.76	2.03	-3.73	10	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-15.26	3.15	-12.11	10	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	-14.82	2.03	-12.79	10	Pass

Condition	Antenna	Mode	Frequency (MHz)	MIMO PSD(dBm/MHz)	Directional Gain (dBi)	EIRP (dBm/MHz)	ISED EIRP limit (dBm/MHz)	Result
NVNT	MIMO_TX	802.11n(HT20)	5180.00	-0.20	5.62	5.42	10	Pass
NVNT	MIMO_TX	802.11n(HT20)	5200.00	-0.38	5.62	5.24	10	Pass
NVNT	MIMO_TX	802.11n(HT20)	5240.00	-0.76	5.62	4.86	10	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5180.00	-1.30	5.62	4.32	10	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5200.00	0.51	5.62	6.13	10	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5240.00	-0.07	5.62	5.55	10	Pass
NVNT	MIMO_TX	802.11n(HT40)	5190.00	-3.37	5.62	2.25	10	Pass
NVNT	MIMO_TX	802.11n(HT40)	5230.00	-4.86	5.62	0.76	10	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5190.00	-3.18	5.62	2.44	10	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5230.00	-3.66	5.62	1.96	10	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5210.00	-13.10	5.62	-7.48	10	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 3.15dBi for ANT1, 2.03dBi for ANT2; Directional Gain 5.62 dBi for CDD mode (802.11n and ac).

U-NII-3:

Antenna	Modulation	Frequency (MHz)	PSD_SA (dBm/RBW)	Duty factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
ANT1	802.11a	5745.00	-2.05	0.48	-1.66	30	Pass
ANT2	802.11a	5745.00	-5.33	0.24	-5.18	30	Pass
ANT1	802.11a	5785.00	-1.87	0.29	-1.66	30	Pass
ANT2	802.11a	5785.00	-2.56	0.32	-2.33	30	Pass
ANT1	802.11a	5825.00	-0.95	0.21	-0.82	30	Pass
ANT2	802.11a	5825.00	-2.41	0.21	-2.29	30	Pass
ANT1	802.11n(HT20)	5745.00	-3.38	0.35	-3.12	30	Pass
ANT2	802.11n(HT20)	5745.00	-6.62	0.31	-6.40	30	Pass
ANT1	802.11n(HT20)	5785.00	-2.83	0.47	-2.45	30	Pass
ANT2	802.11n(HT20)	5785.00	-5.93	0.43	-5.59	30	Pass
ANT1	802.11n(HT20)	5825.00	-2.89	0.43	-2.55	30	Pass
ANT2	802.11n(HT20)	5825.00	-2.69	0.39	-2.38	30	Pass
ANT1	802.11ac(VHT20)	5745.00	-4.31	0.51	-3.89	30	Pass
ANT2	802.11ac(VHT20)	5745.00	-6.25	0.34	-5.99	30	Pass
ANT1	802.11ac(VHT20)	5785.00	-3.56	0.39	-3.26	30	Pass
ANT2	802.11ac(VHT20)	5785.00	-3.92	0.35	-3.66	30	Pass
ANT1	802.11ac(VHT20)	5825.00	-2.92	0.43	-2.58	30	Pass
ANT2	802.11ac(VHT20)	5825.00	-2.39	0.55	-1.93	30	Pass
ANT1	802.11n(HT40)	5755.00	-8.77	0.76	-8.10	30	Pass
ANT2	802.11n(HT40)	5755.00	-8.54	0.84	-7.79	30	Pass
ANT1	802.11n(HT40)	5795.00	-7.95	0.52	-7.51	30	Pass
ANT2	802.11n(HT40)	5795.00	-8.11	0.76	-7.44	30	Pass
ANT1	802.11ac(VHT40)	5755.00	-10.94	0.84	-10.19	30	Pass
ANT2	802.11ac(VHT40)	5755.00	-9.63	0.84	-8.88	30	Pass
ANT1	802.11ac(VHT40)	5795.00	-10.72	0.91	-9.90	30	Pass
ANT2	802.11ac(VHT40)	5795.00	-8.83	0.84	-8.07	30	Pass
ANT1	802.11ac(VHT80)	5775.00	-17.48	1.43	-16.14	30	Pass
ANT2	802.11ac(VHT80)	5775.00	-17.82	1.82	-16.09	30	Pass

Condition	Antenna	Mode	Frequency (MHz)	MIMO PSD(dBm/500kHz)	Limit(dBm/500kHz)	Result
NVNT	MIMO_TX	802.11n(HT20)	5745.00	-2.07	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5785.00	-1.32	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5825.00	0.12	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5745.00	-1.90	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5785.00	-1.16	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5825.00	0.54	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5755.00	-5.58	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5795.00	-5.69	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5755.00	-7.01	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5795.00	-6.49	30	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5775.00	-14.47	30	Pass

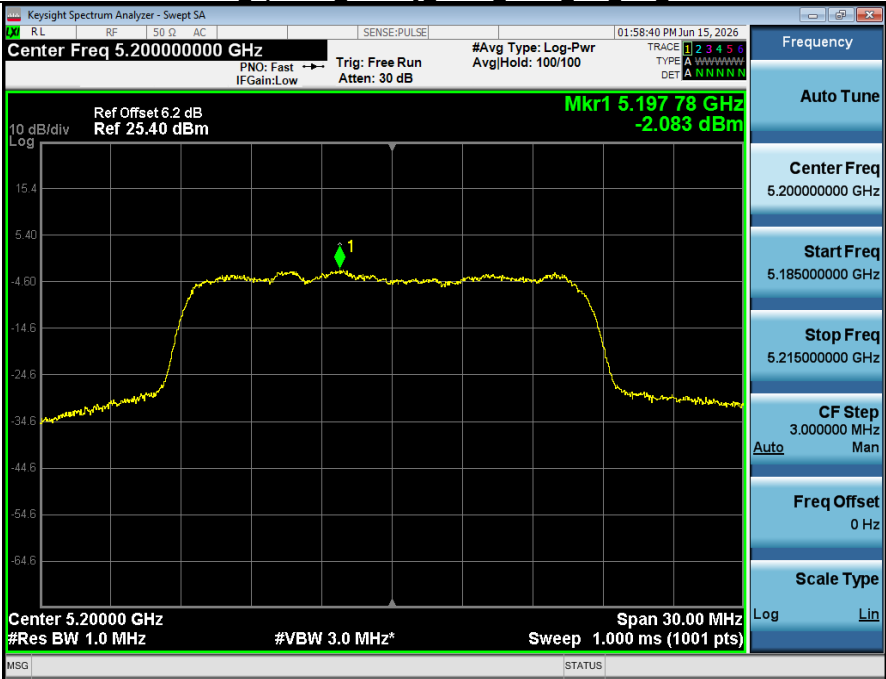
Test Graphs

U-NII-1:





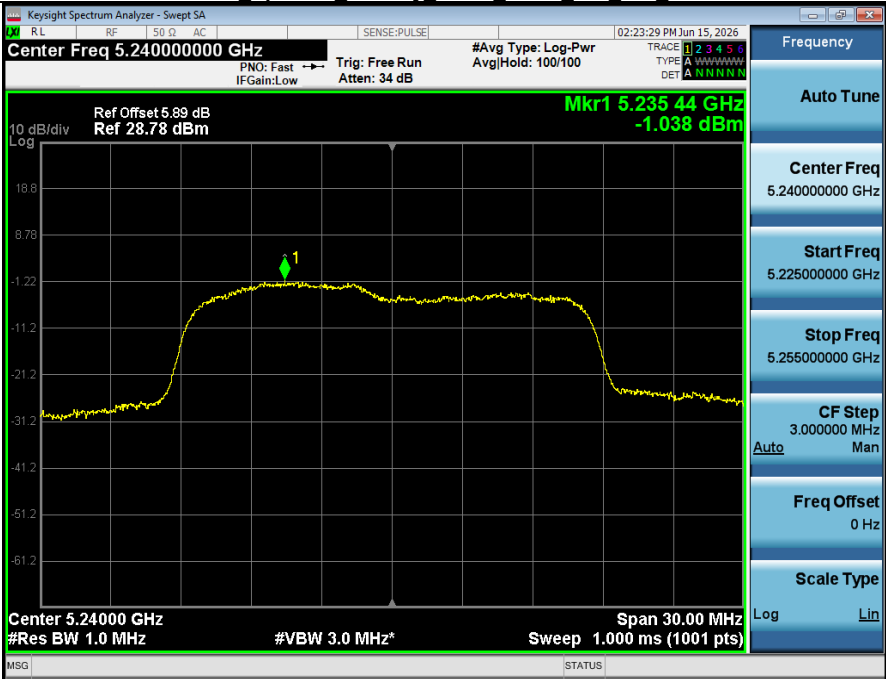
Power Spectral Density_NVNT_ANT2_802_11a_5200



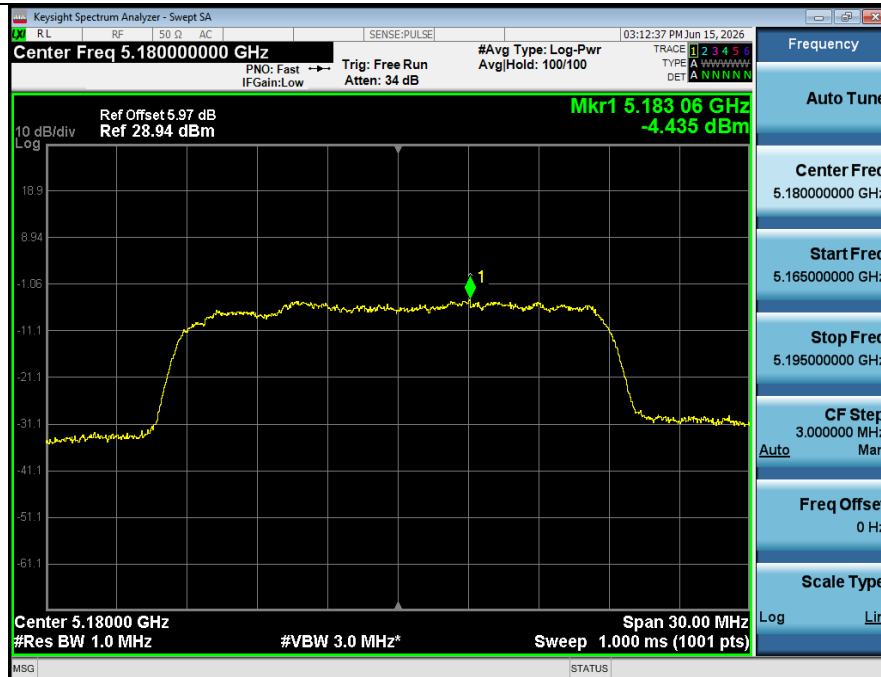
Power Spectral Density_NVNT_ANT1_802_11a_5240



Power Spectral Density NVNT ANT2 802 11a 5240



Power Spectral Density NVNT ANT1 802 11n(HT20) 5180



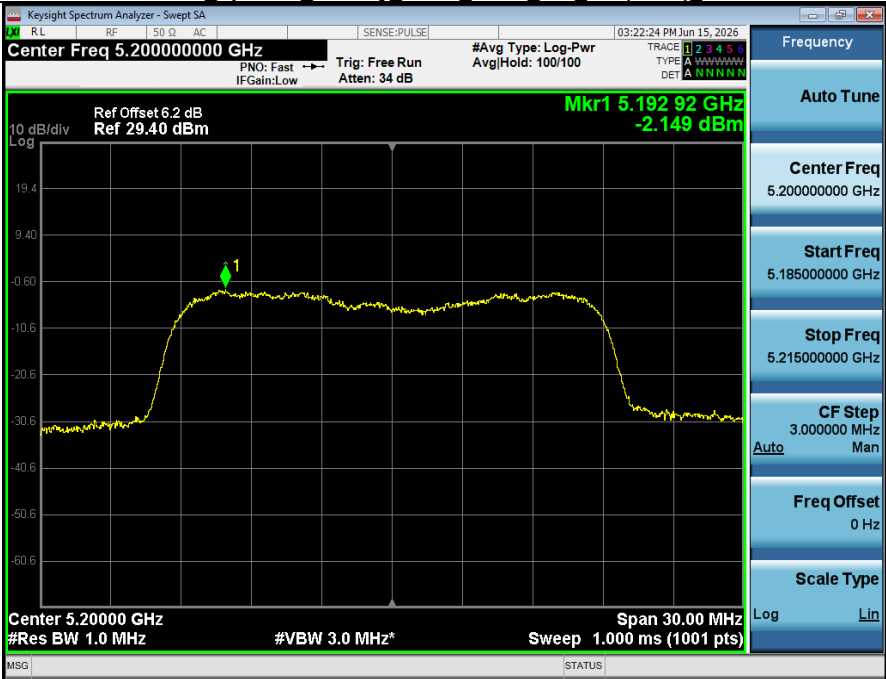
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240