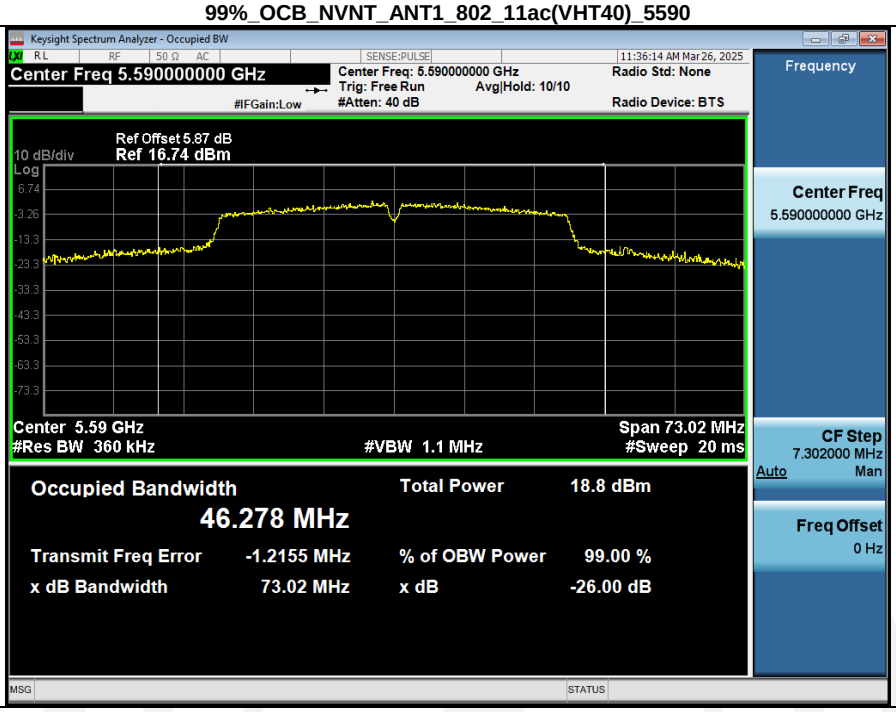
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5590



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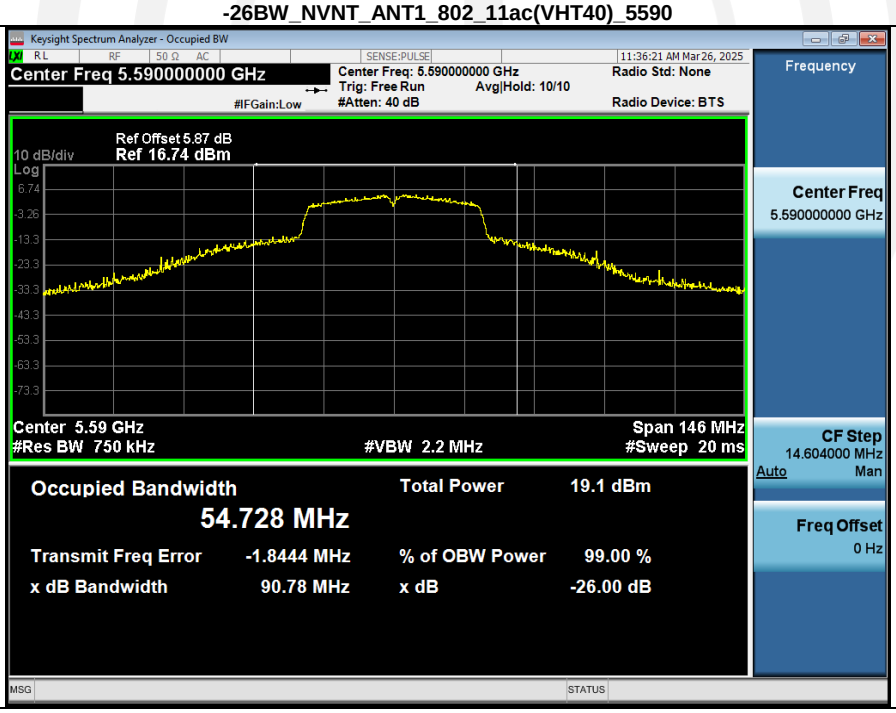

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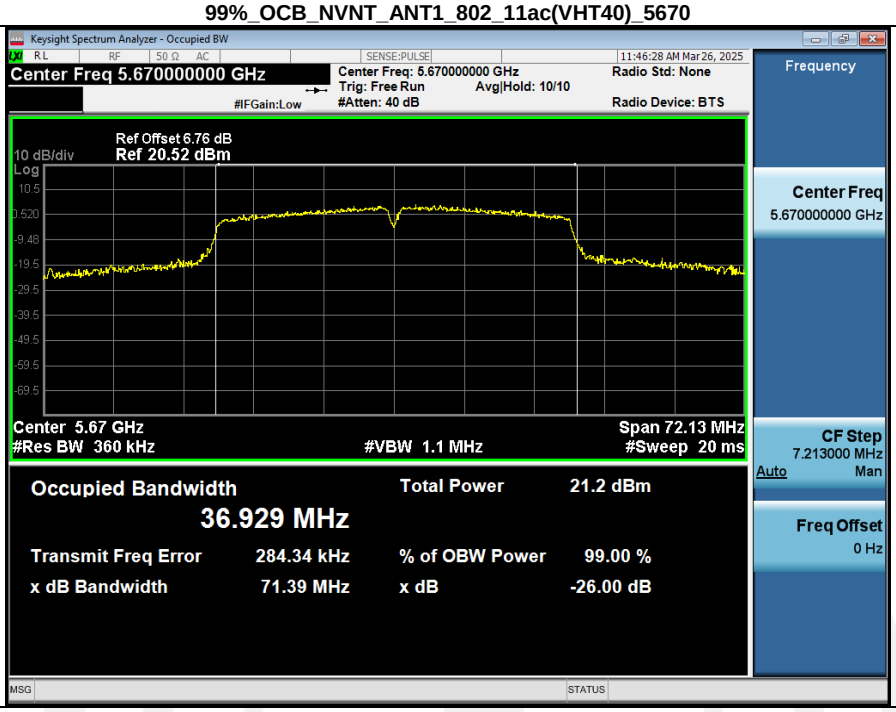

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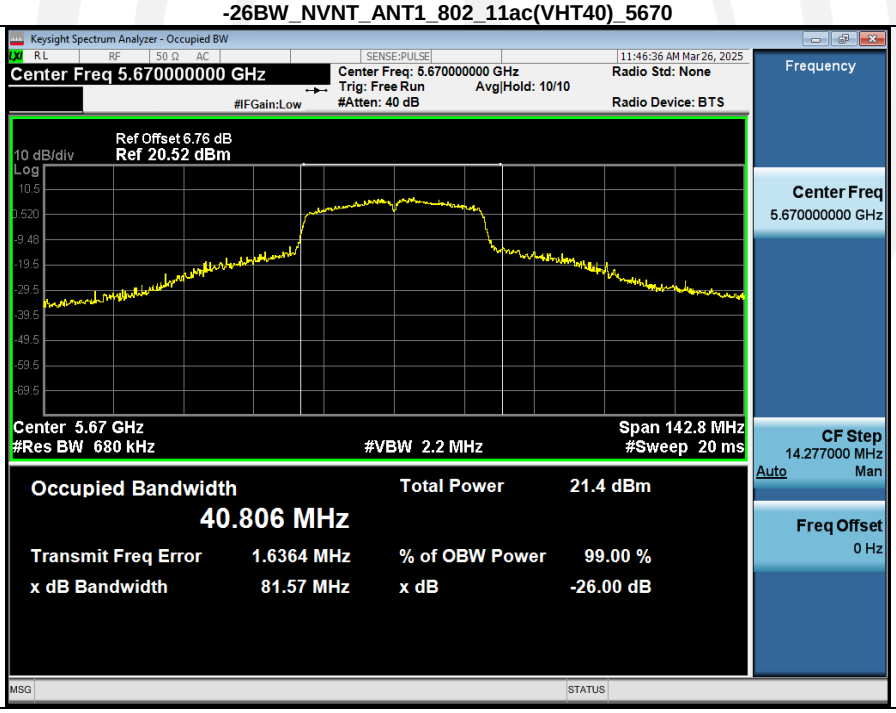

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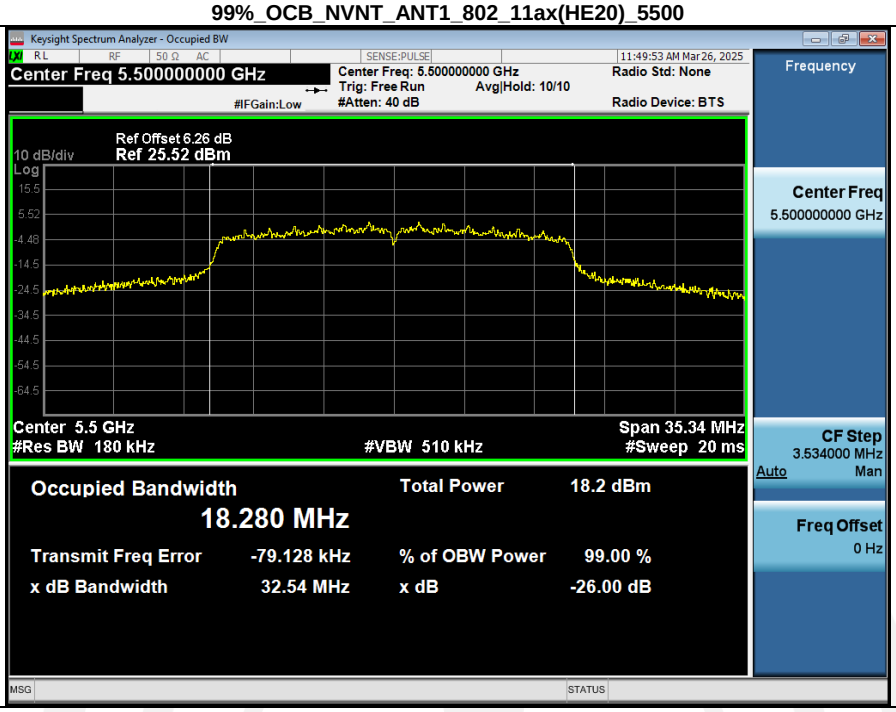

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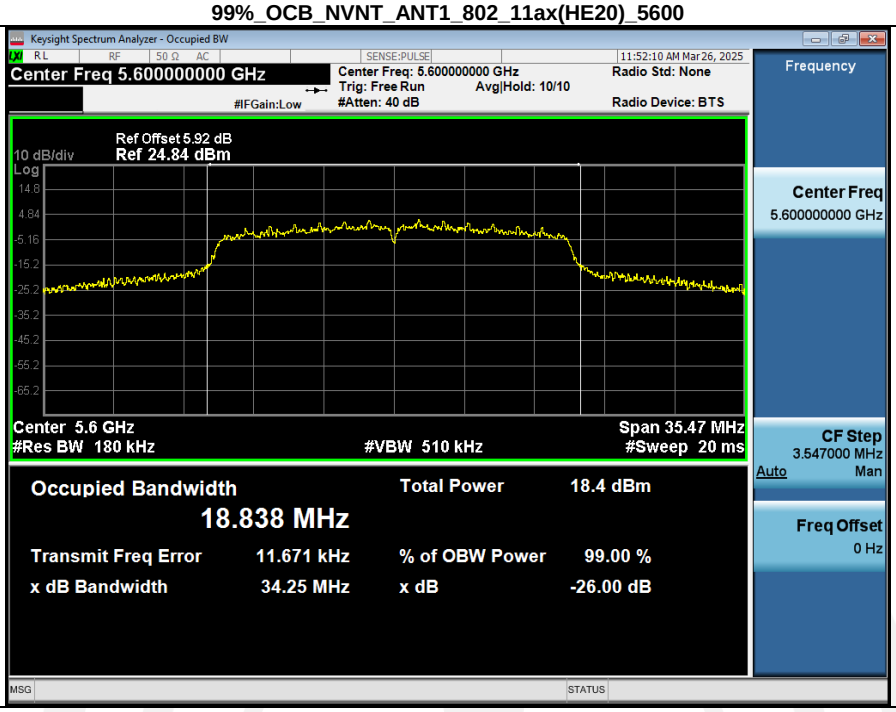
99%_OCB_NVNT_ANT1_802_11ax(HE20)_5600



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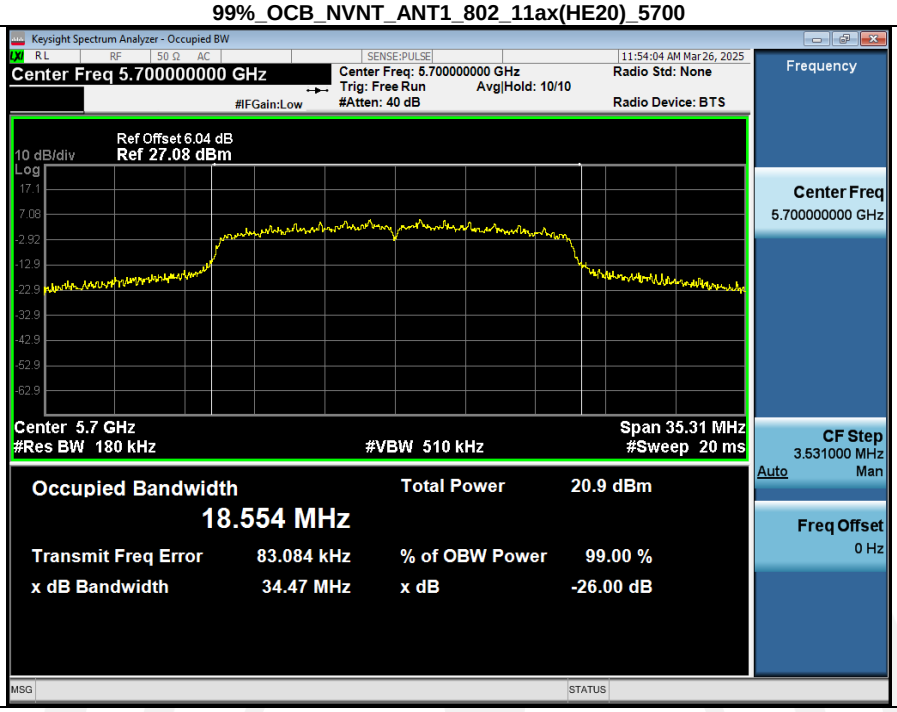
99%_OCB_NVNT_ANT1_802_11ax(HE20)_5700



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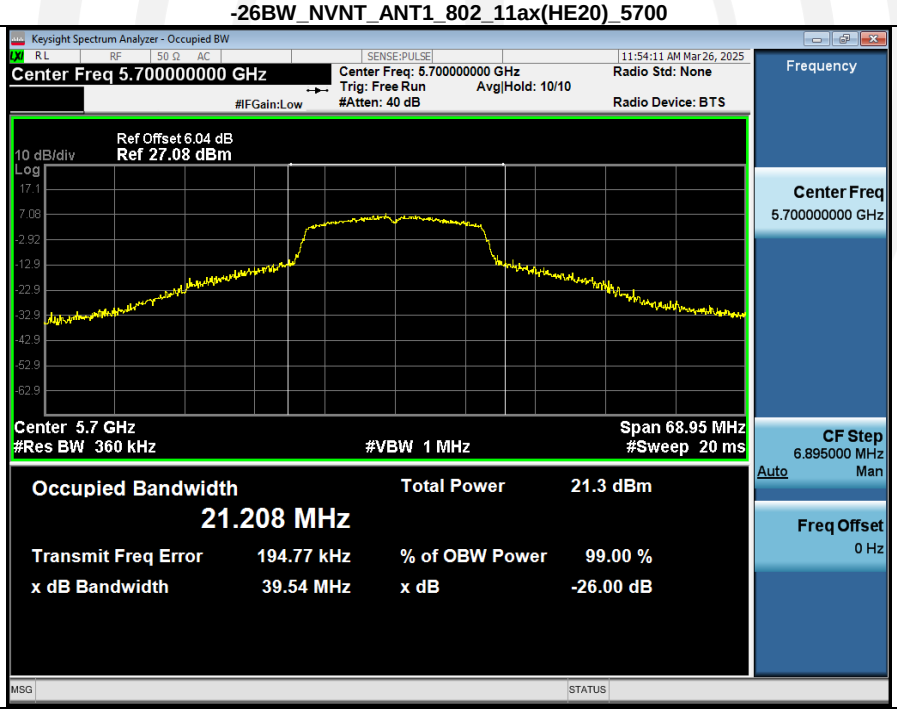

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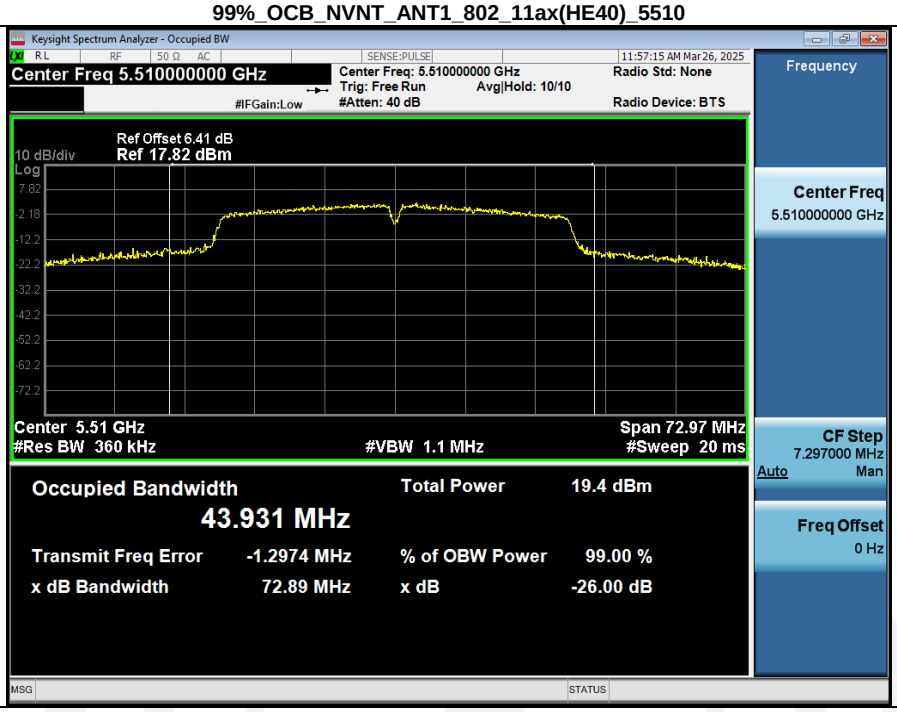

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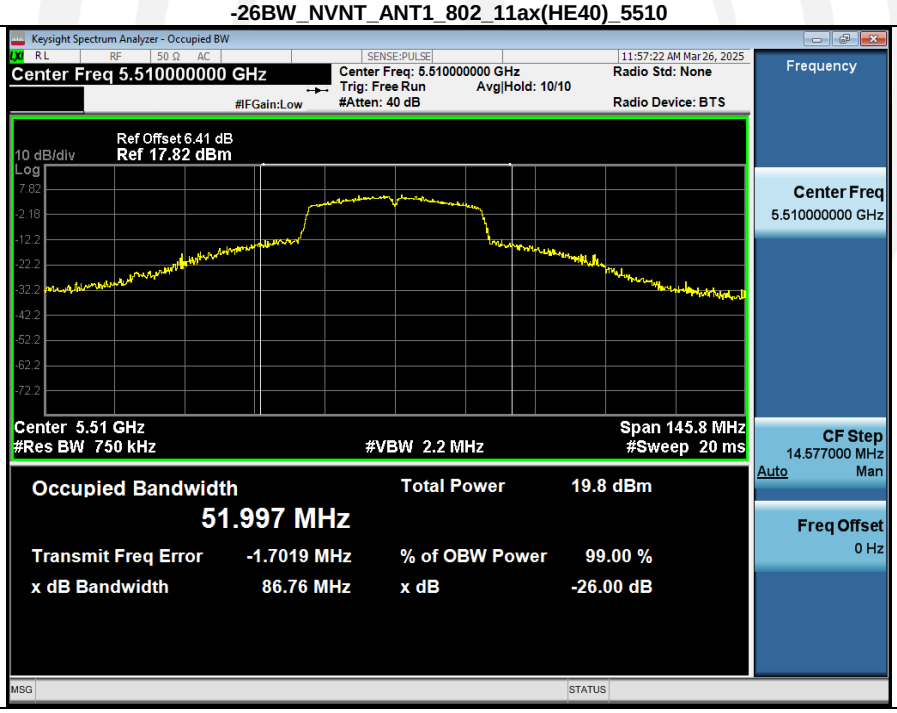

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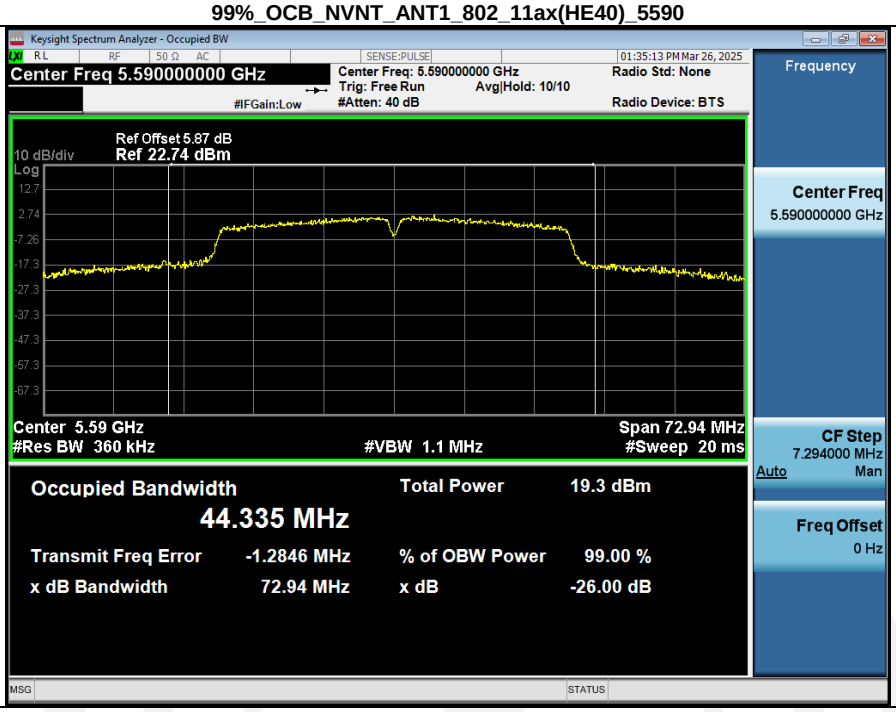

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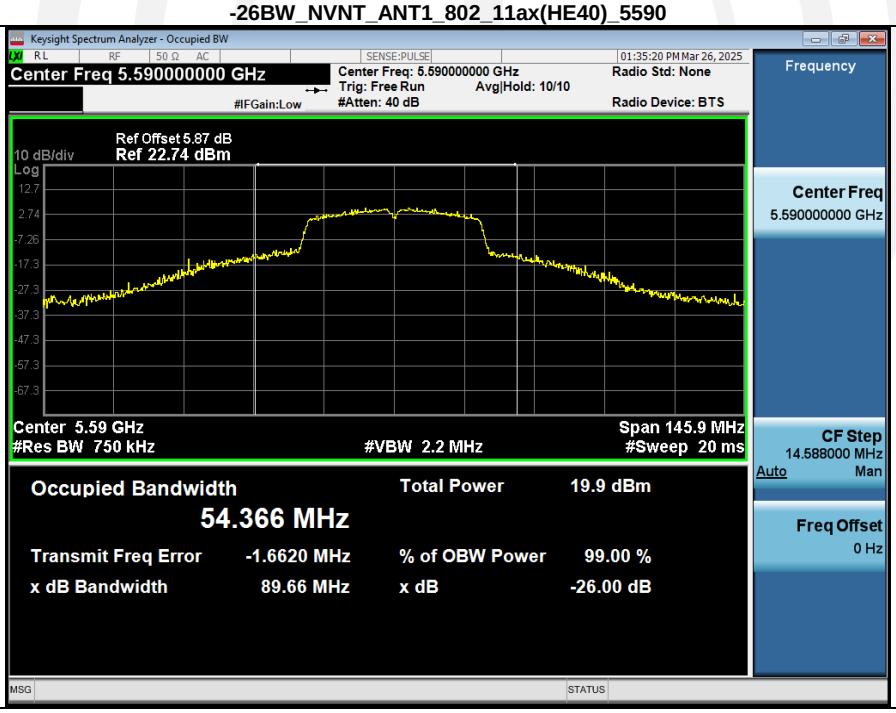

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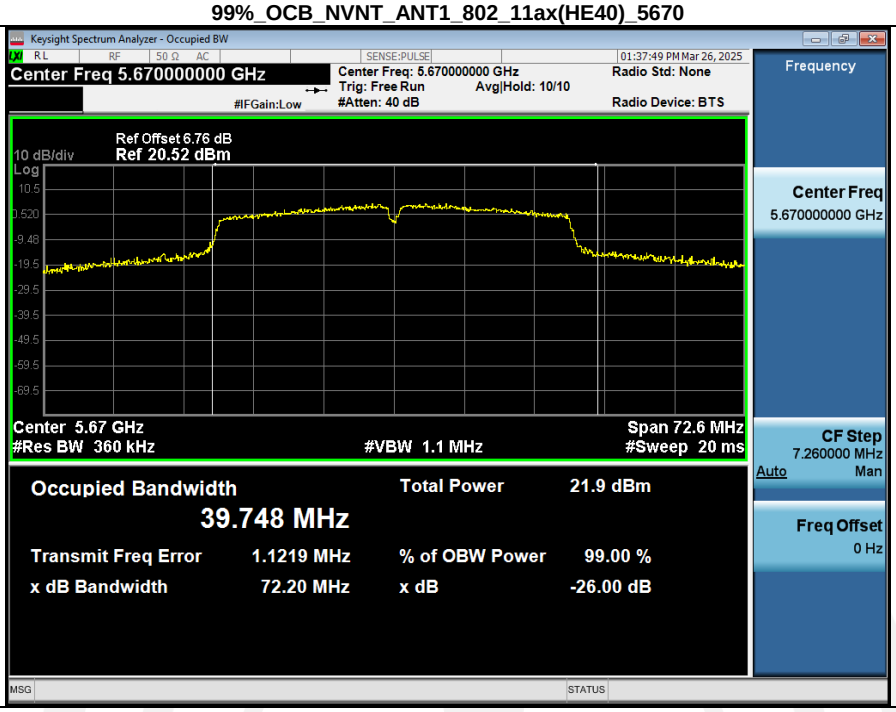

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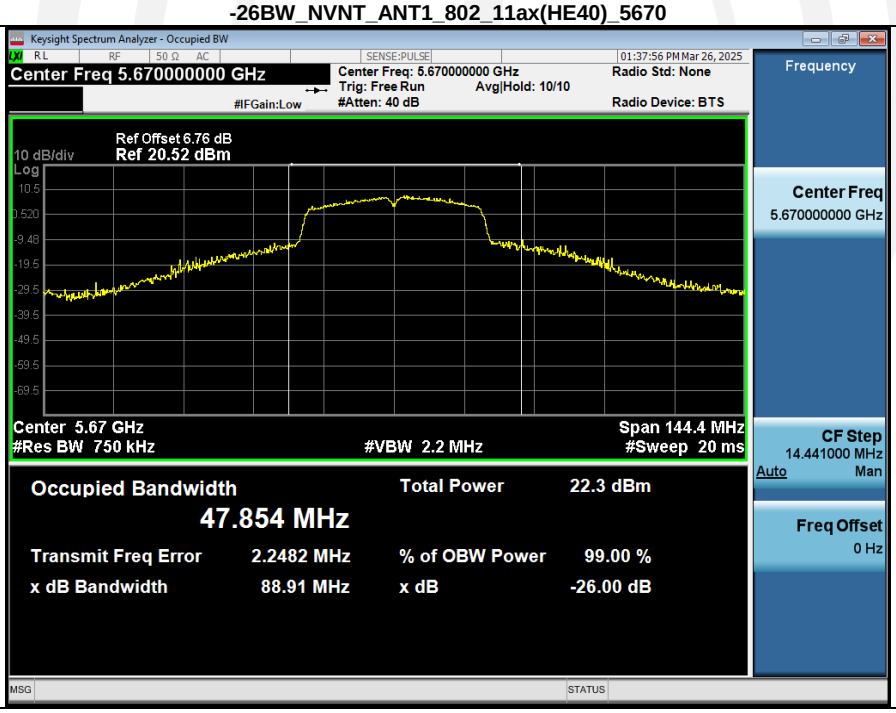

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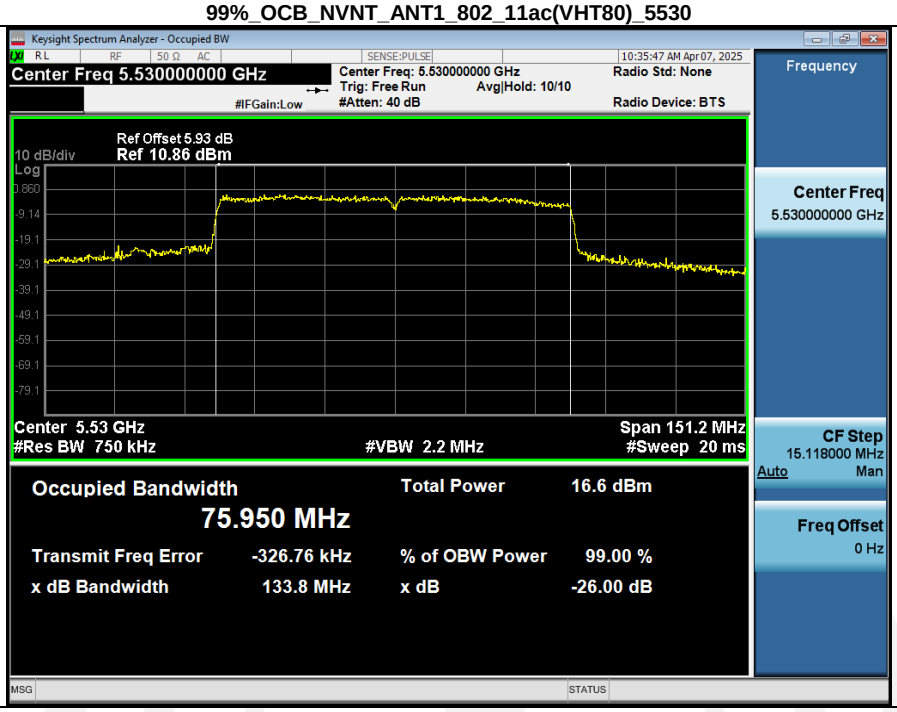

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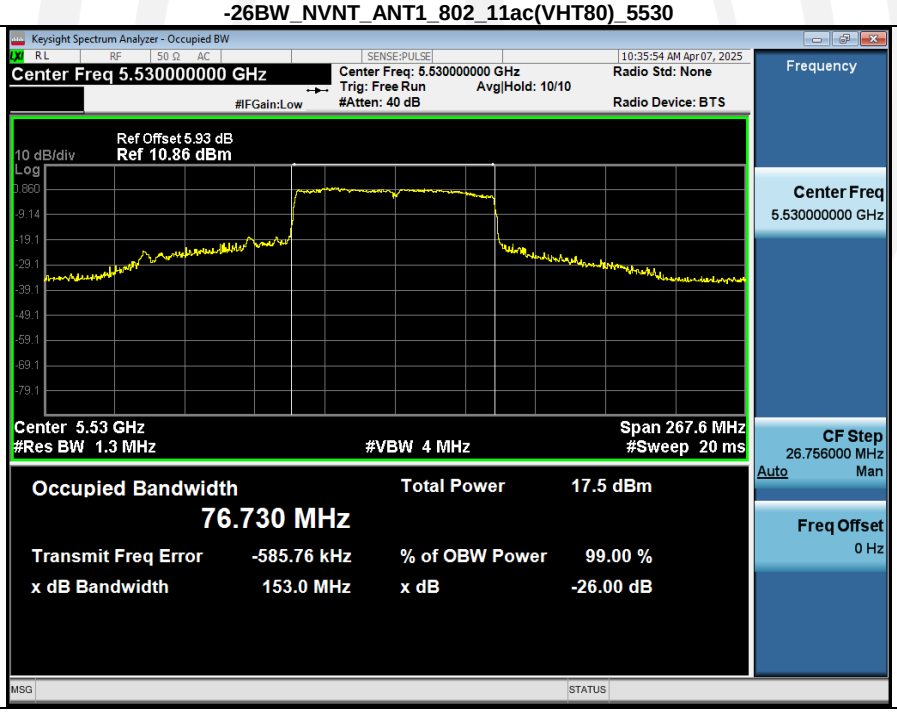

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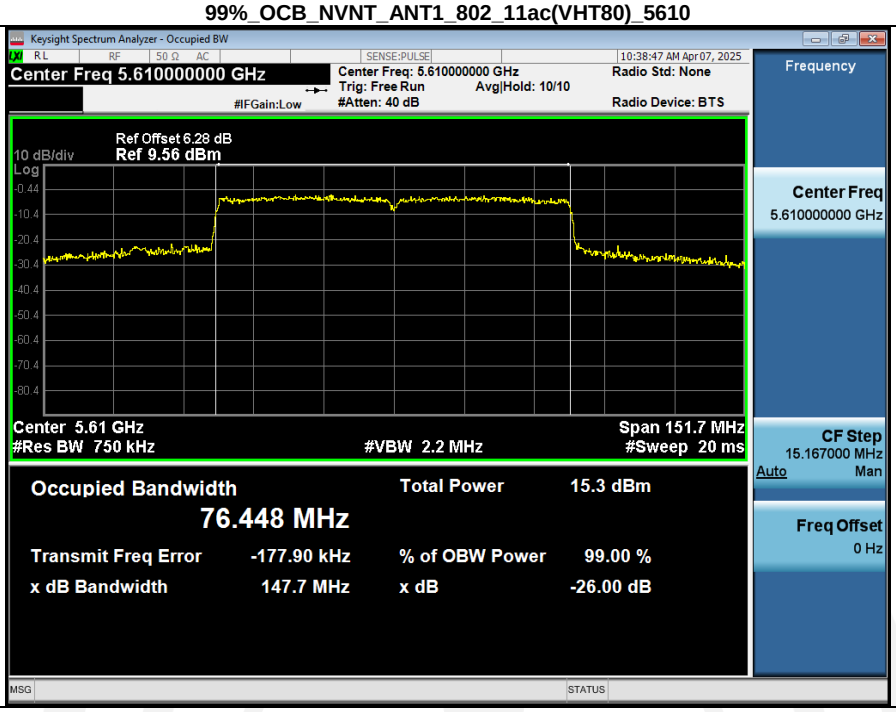

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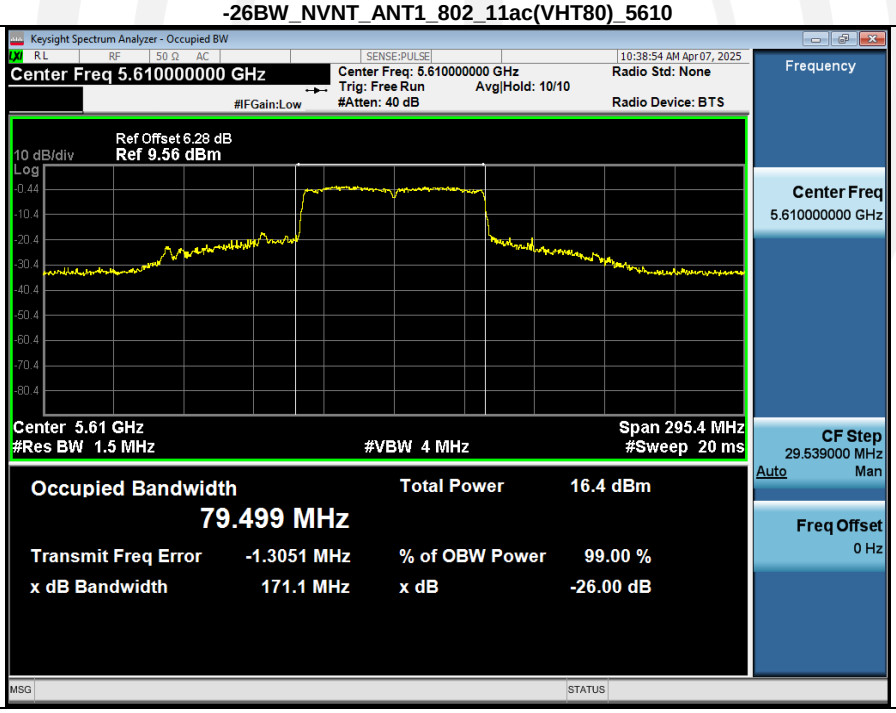

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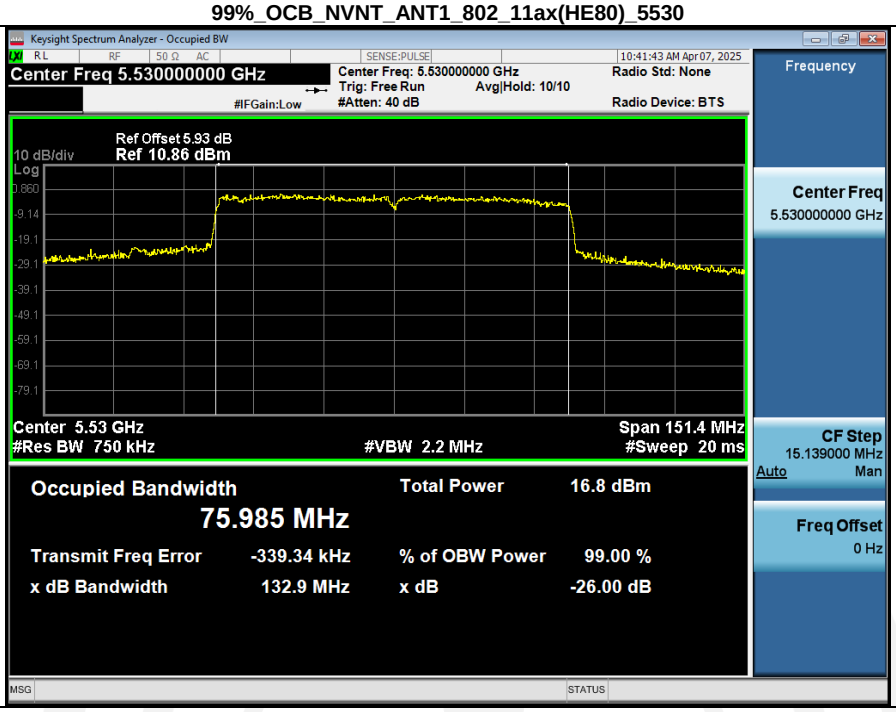

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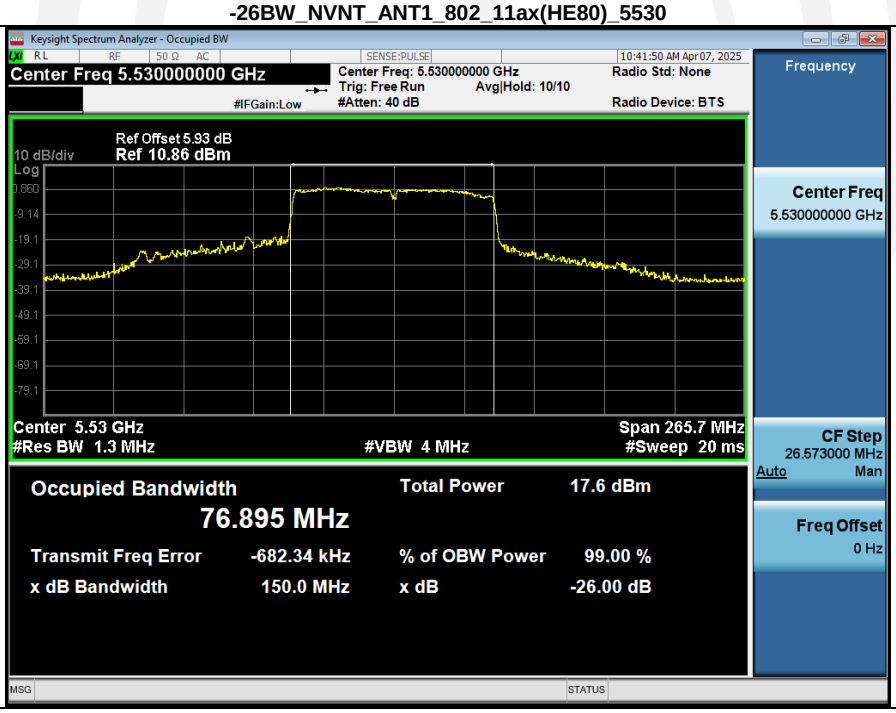

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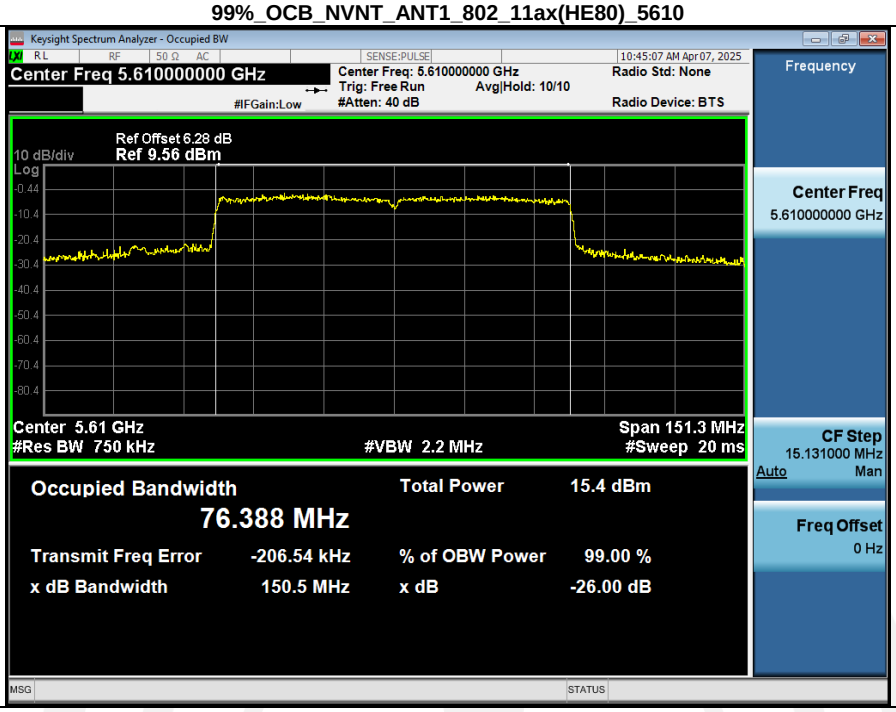

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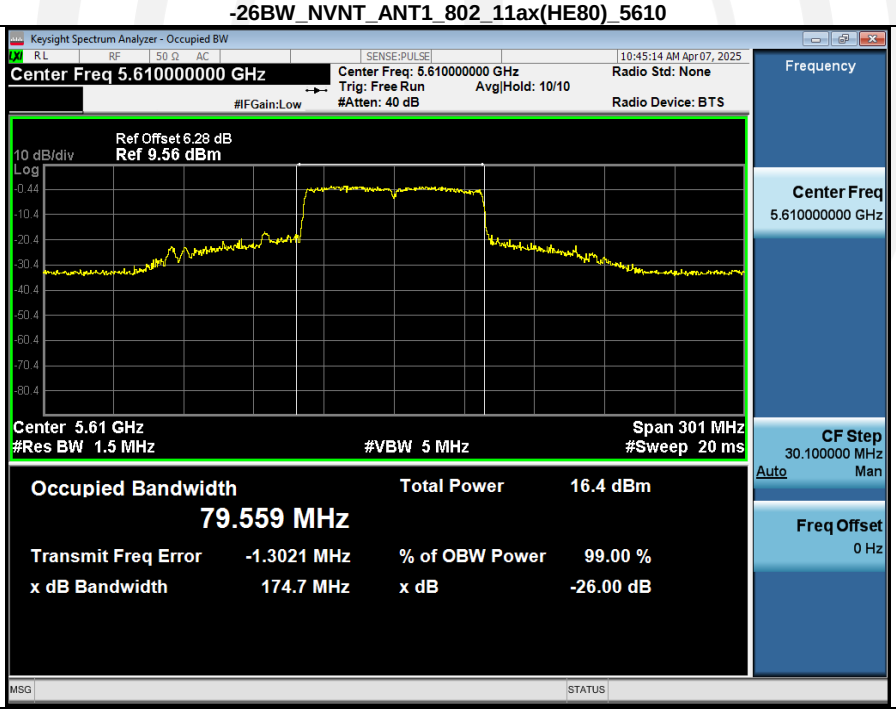
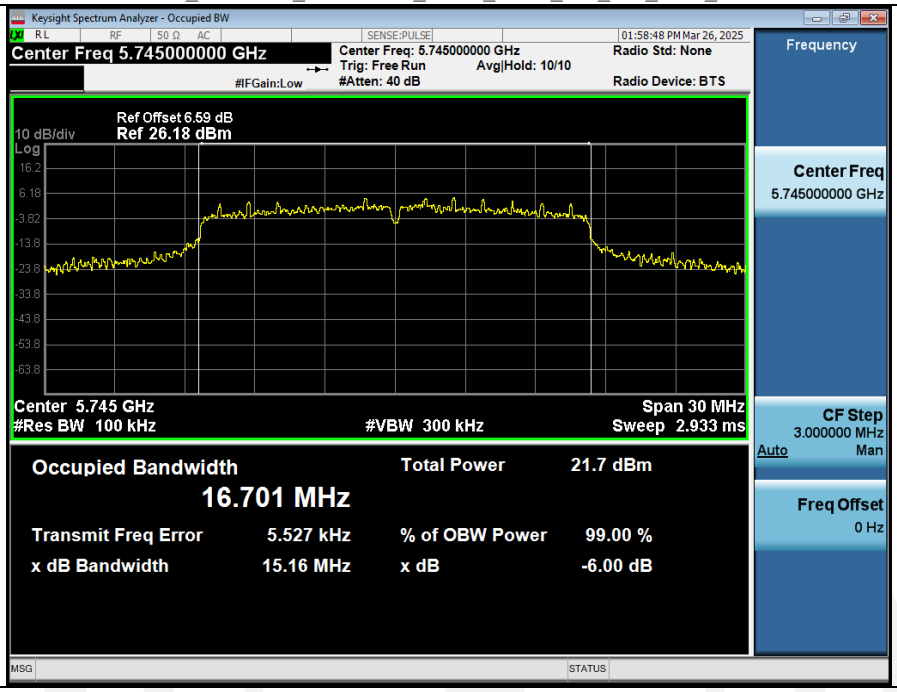


Band 4(5745-5825MHz)

Condition	Antenna	Mode	Frequency(MHz)	-6dB_Emission_Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	15.157	0.500	Pass
NVNT	ANT1	802.11a	5785.00	15.129	0.500	Pass
NVNT	ANT1	802.11a	5825.00	15.156	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	15.161	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	15.149	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	15.042	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	13.928	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	15.167	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	11.986	0.500	Pass
NVNT	ANT1	802.11ax(HE20)	5745.00	15.143	0.500	Pass
NVNT	ANT1	802.11ax(HE20)	5785.00	15.048	0.500	Pass
NVNT	ANT1	802.11ax(HE20)	5825.00	15.099	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	35.111	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	35.107	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	31.420	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	35.113	0.500	Pass
NVNT	ANT1	802.11ax(HE40)	5755.00	34.997	0.500	Pass
NVNT	ANT1	802.11ax(HE40)	5795.00	35.128	0.500	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	75.641	0.500	Pass
NVNT	ANT1	802.11ax(HE80)	5775.00	75.624	0.500	Pass

-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5745_20M



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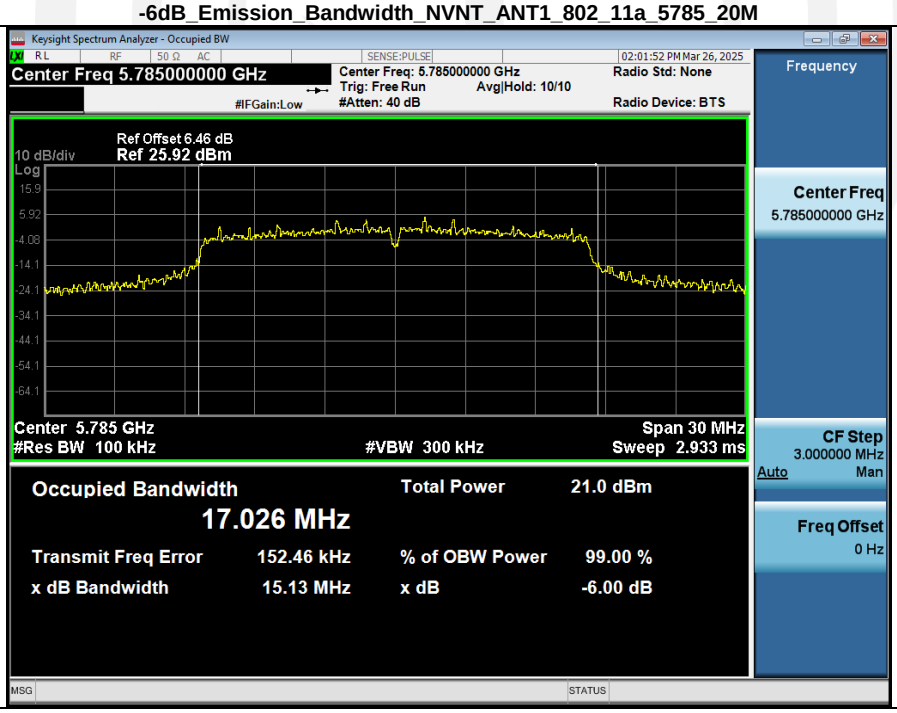
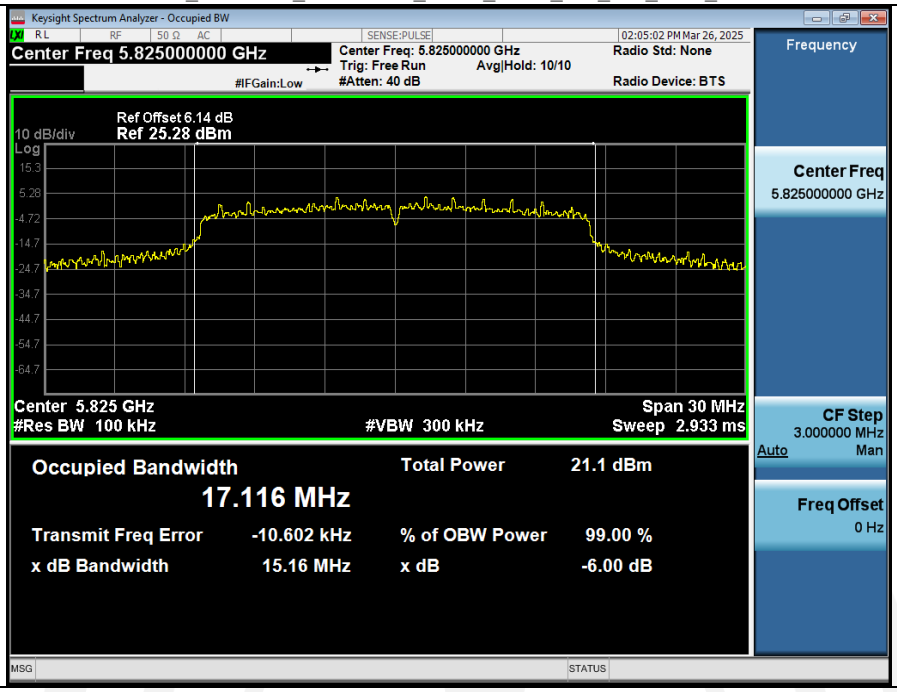


-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5825_20M



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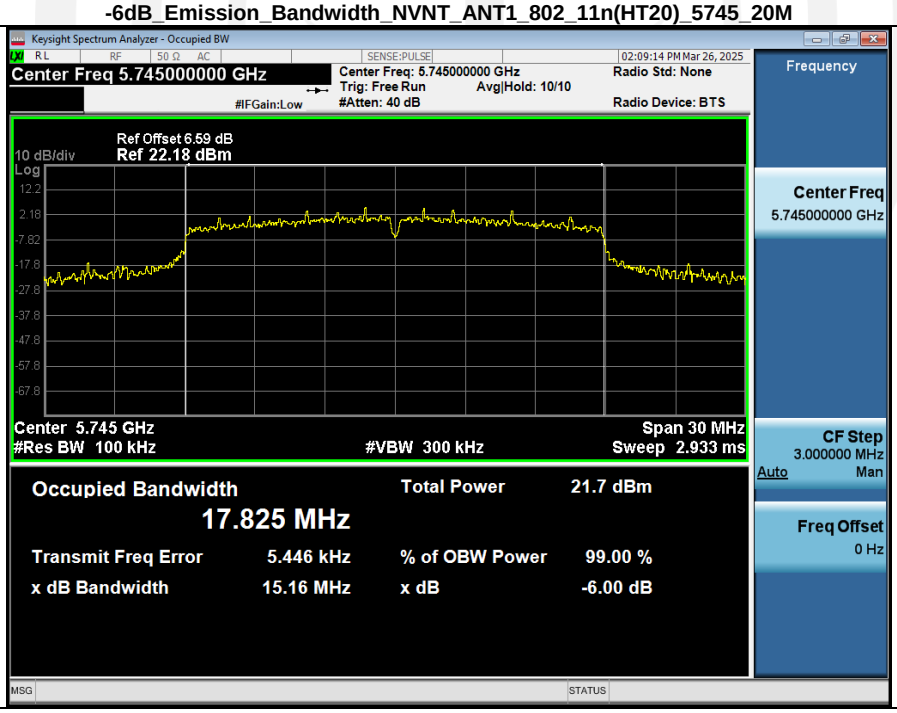

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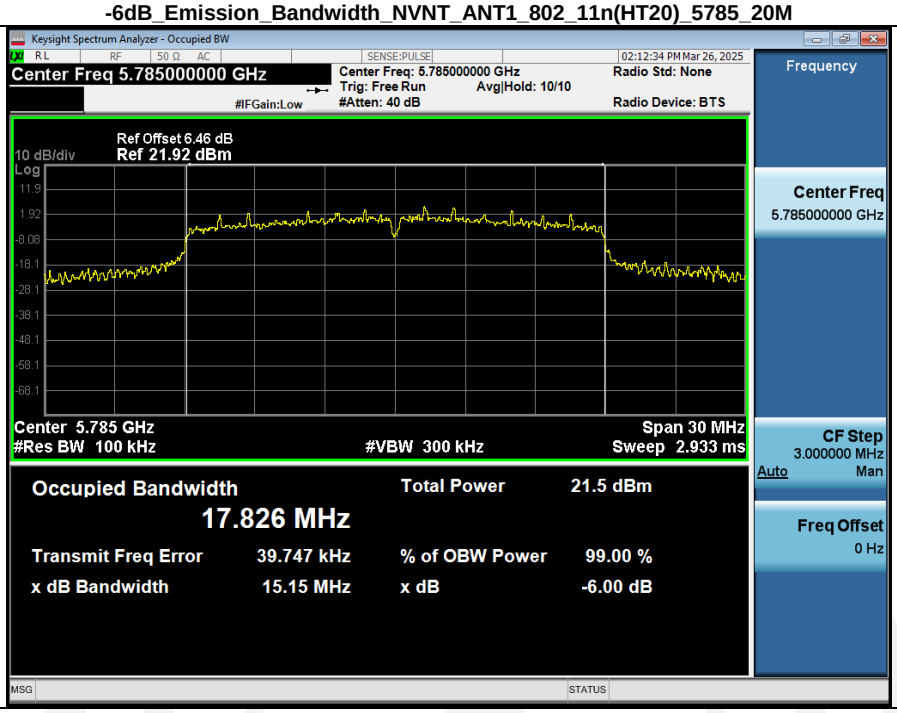

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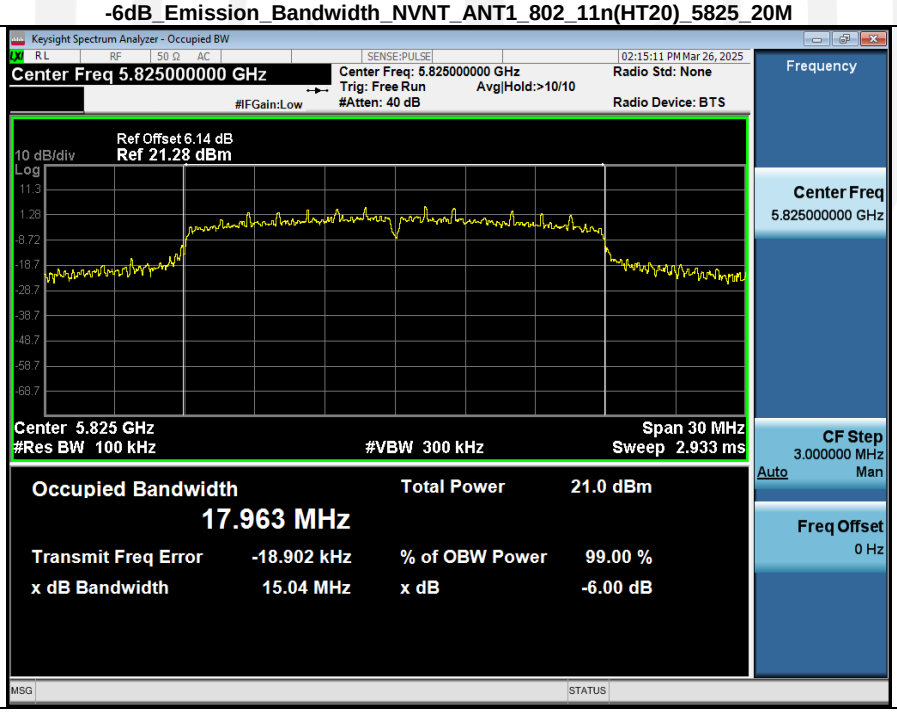
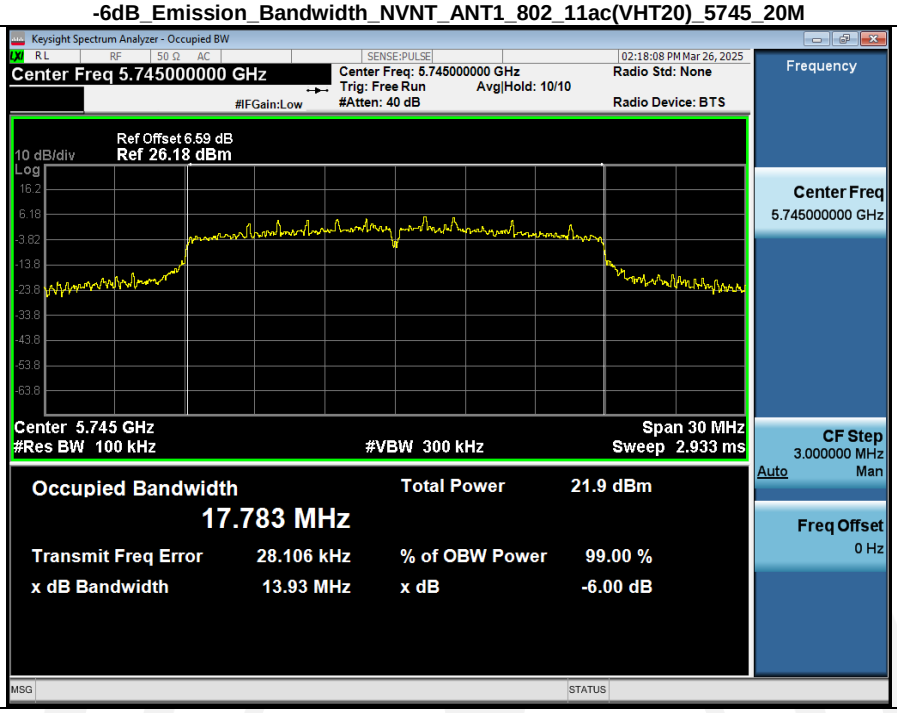
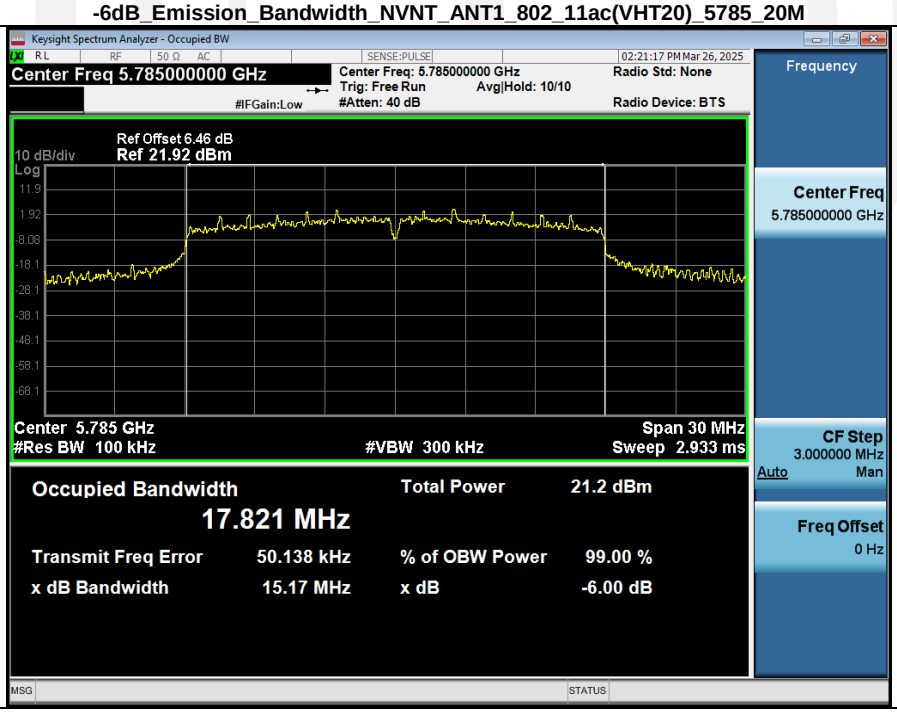


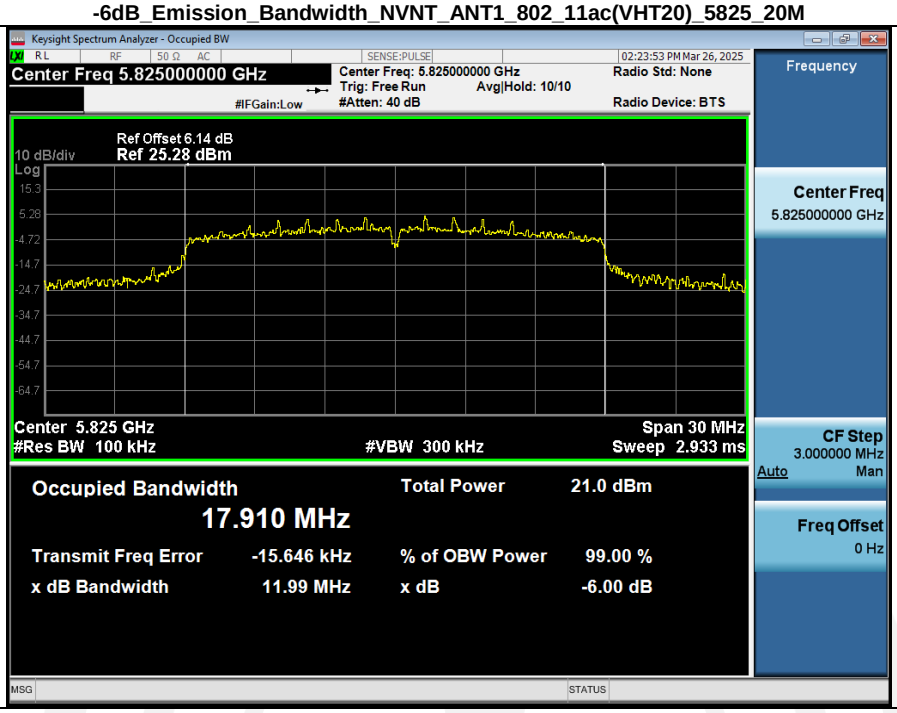
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT20)_5745_20M



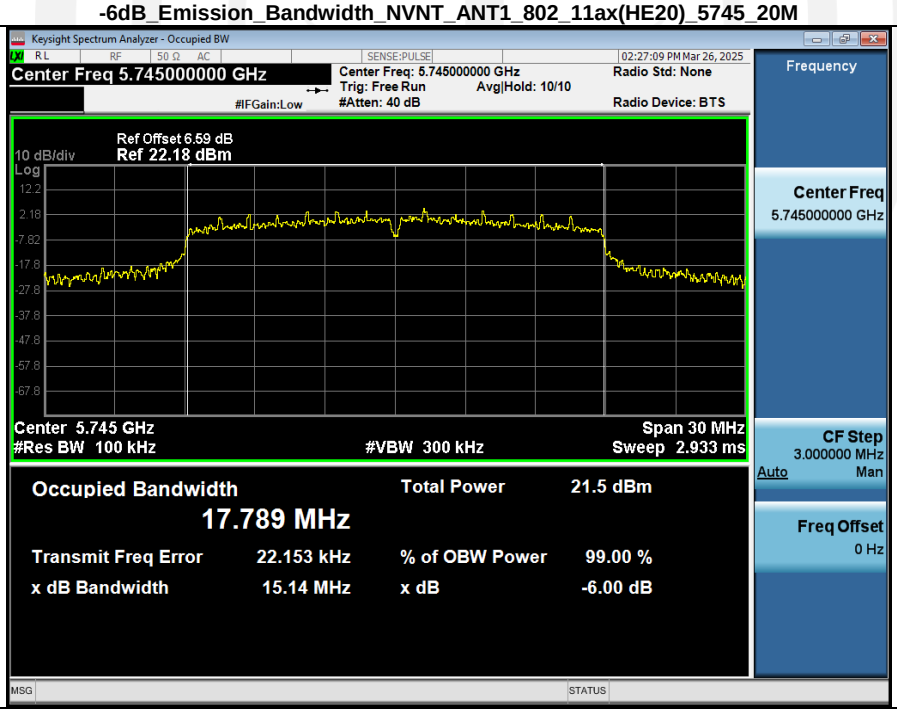
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT20)_5785_20M



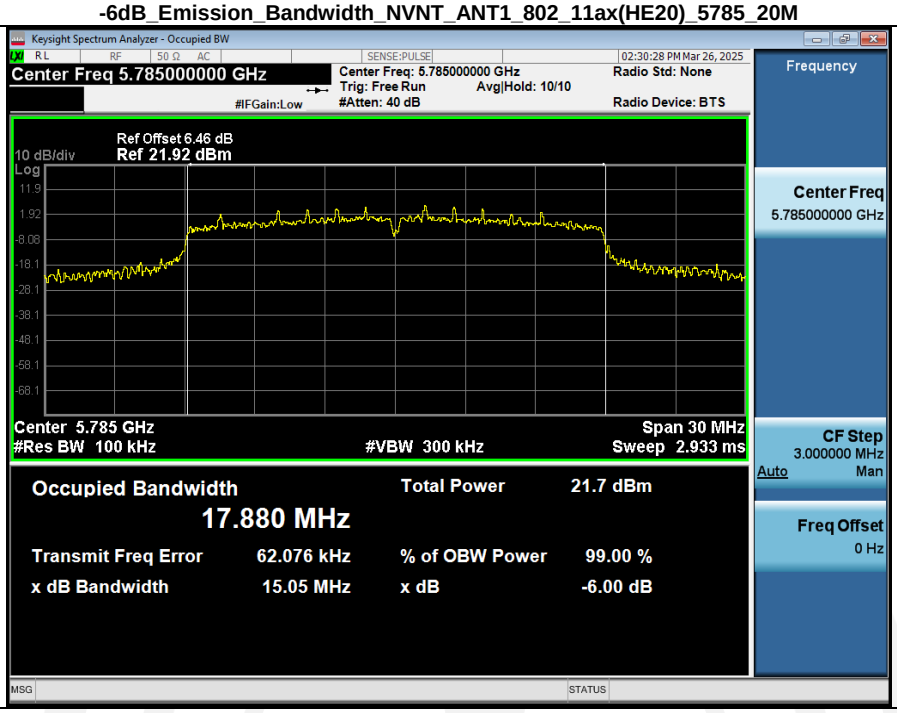
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT20)_5825_20M



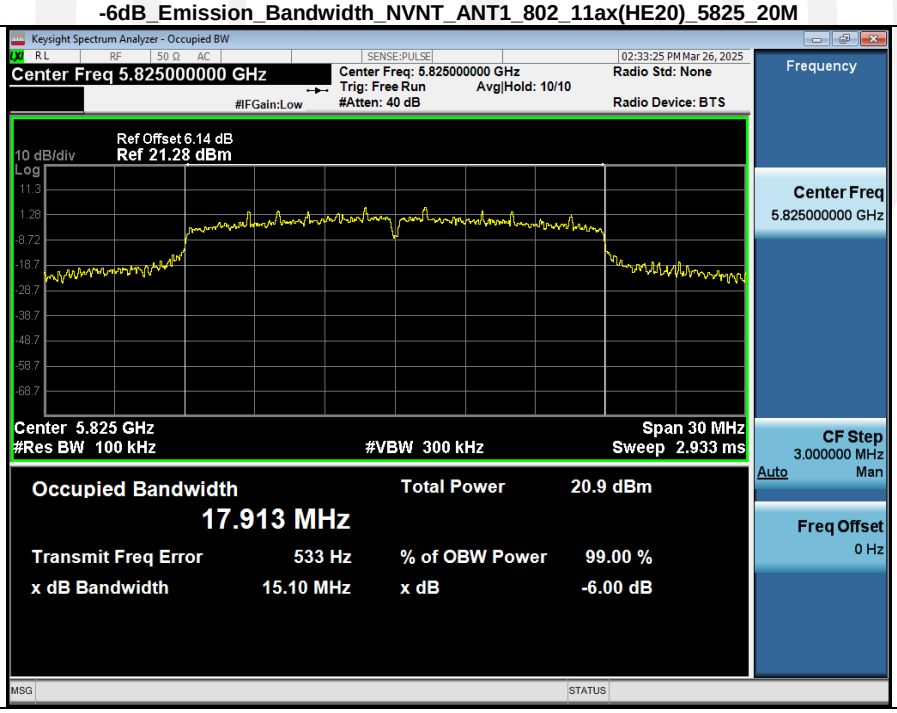
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE20)_5745_20M



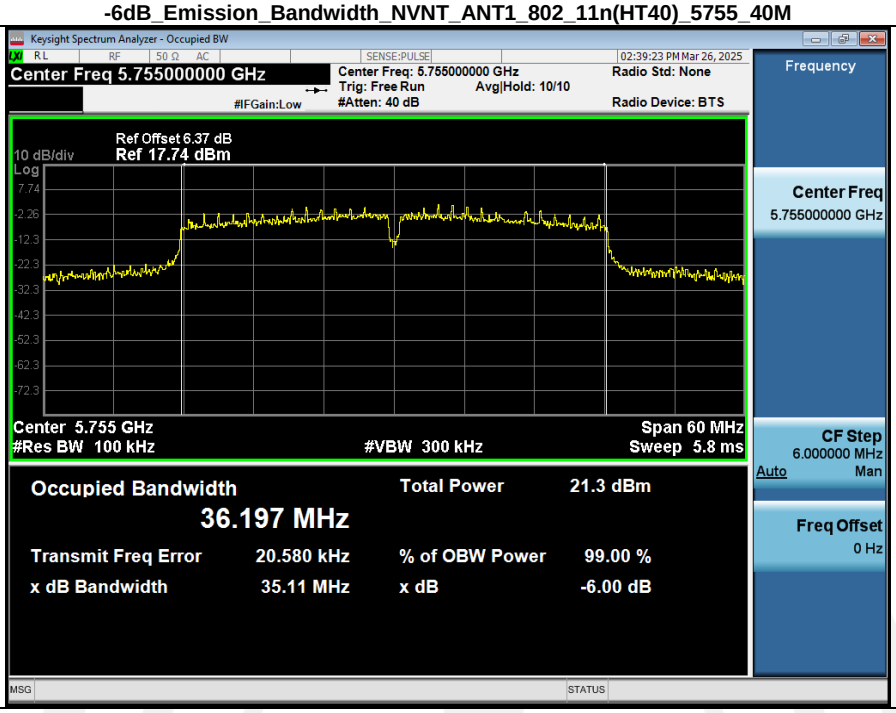
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE20)_5785_20M



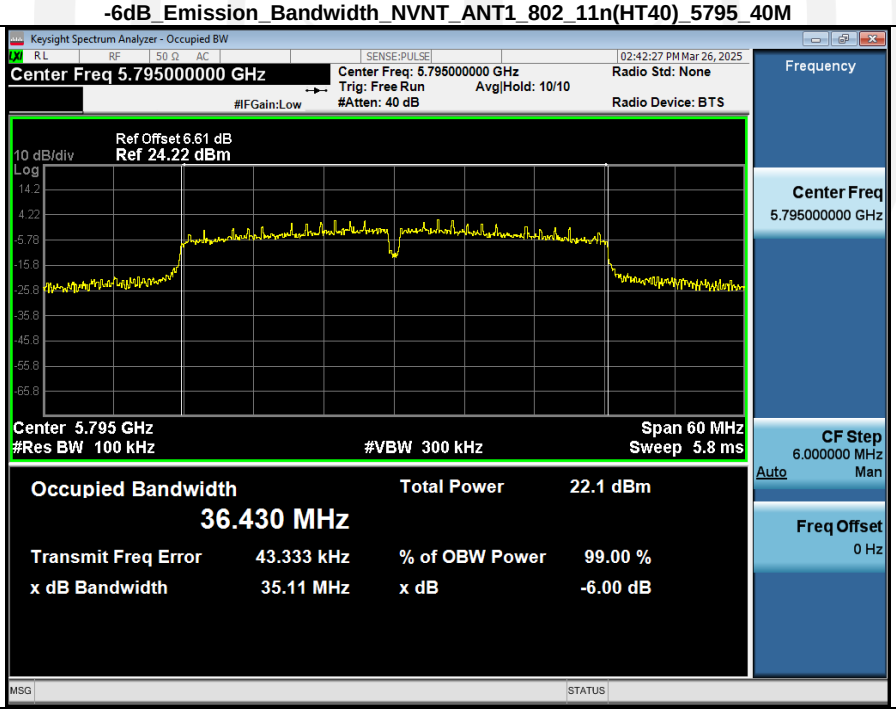
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE20)_5825_20M



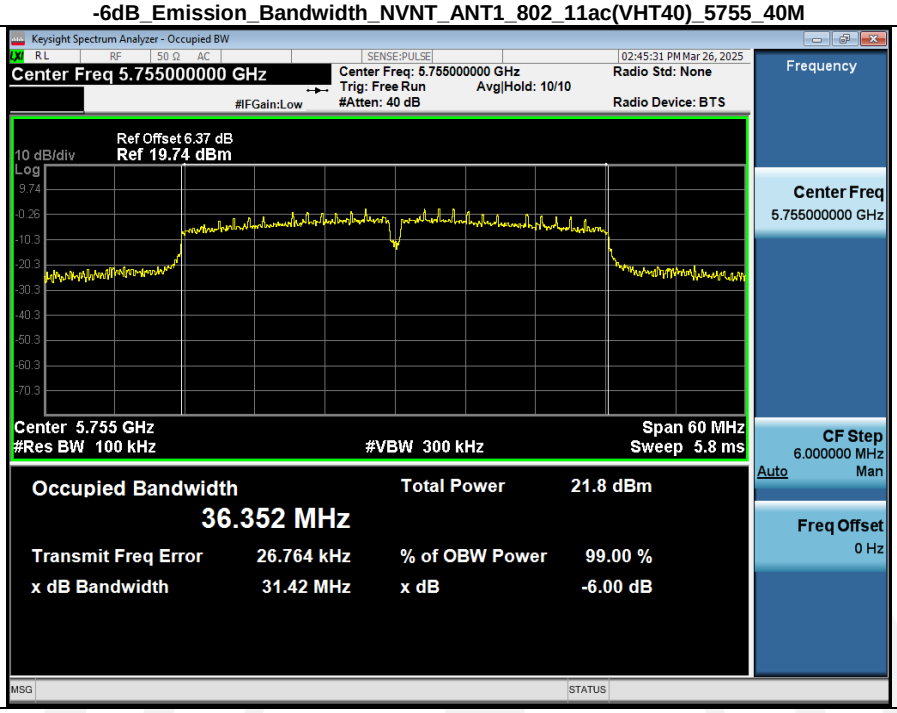
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5755_40M



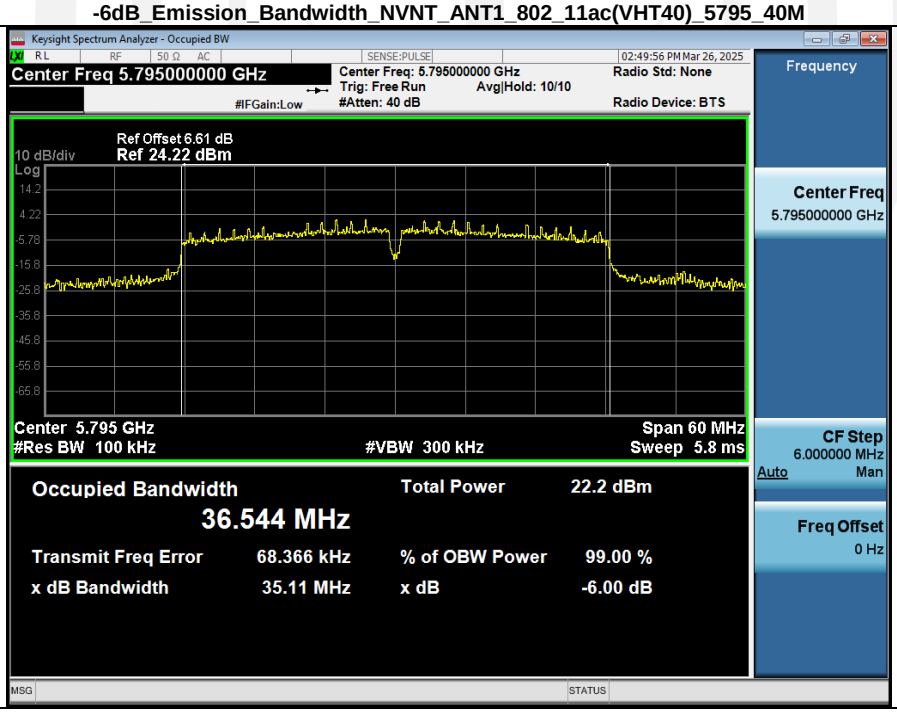
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5795_40M



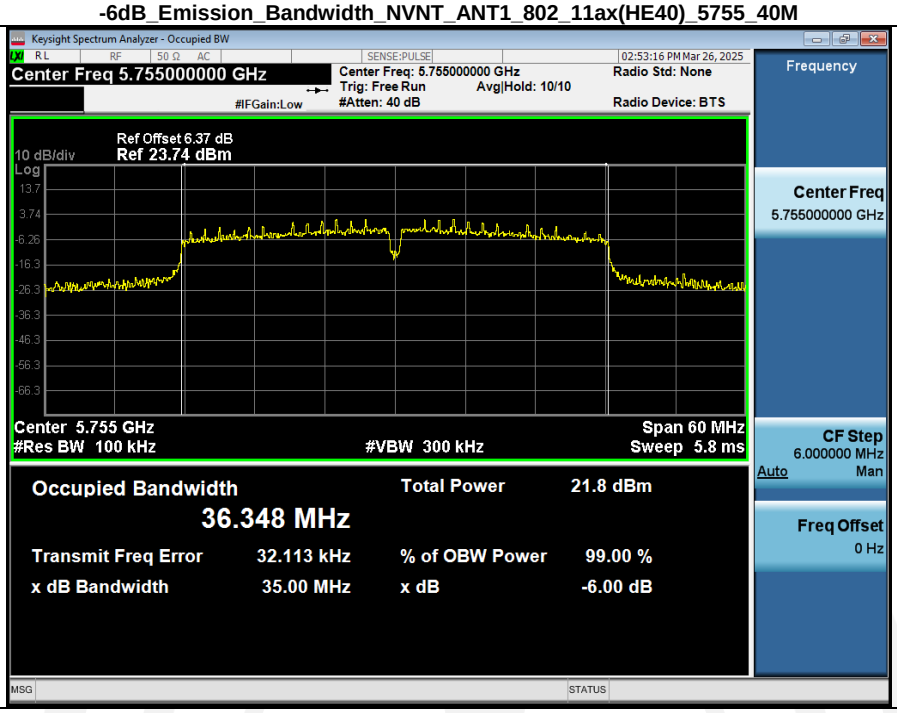
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT40)_5755_40M



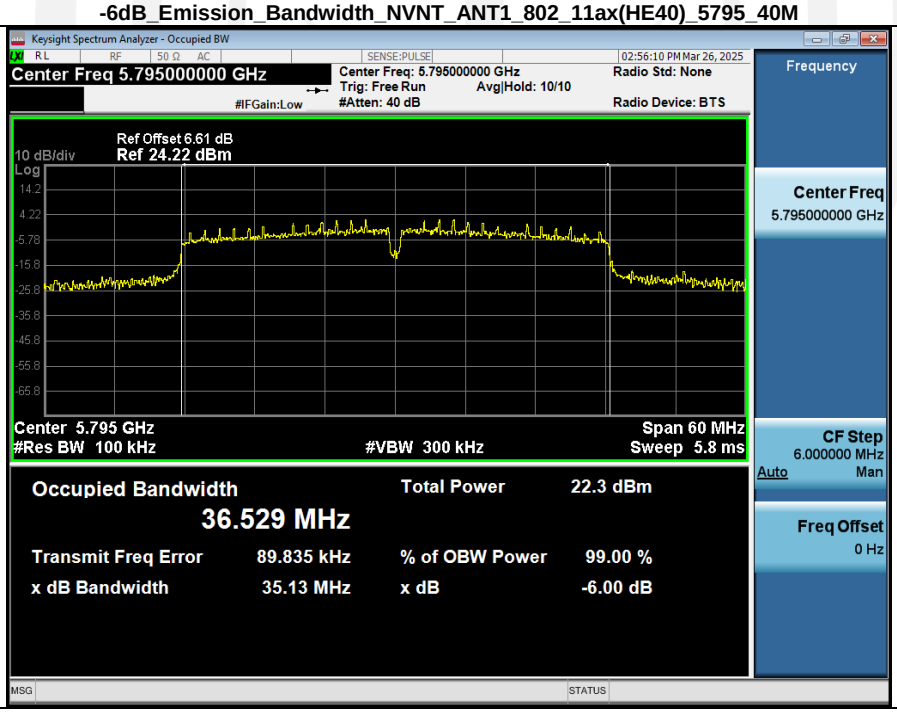
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT40)_5795_40M



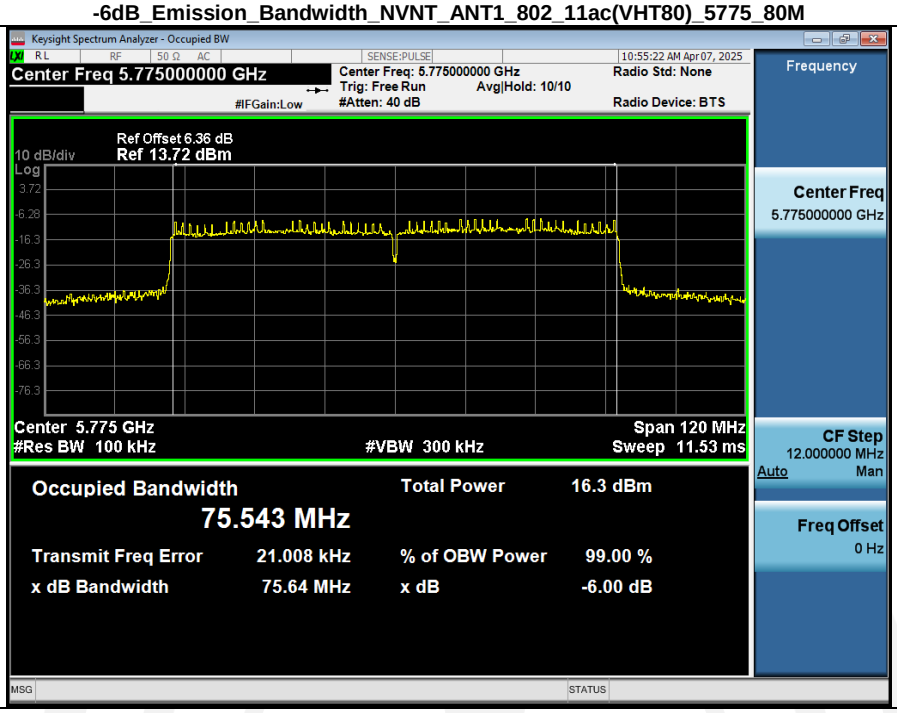
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE40)_5755_40M



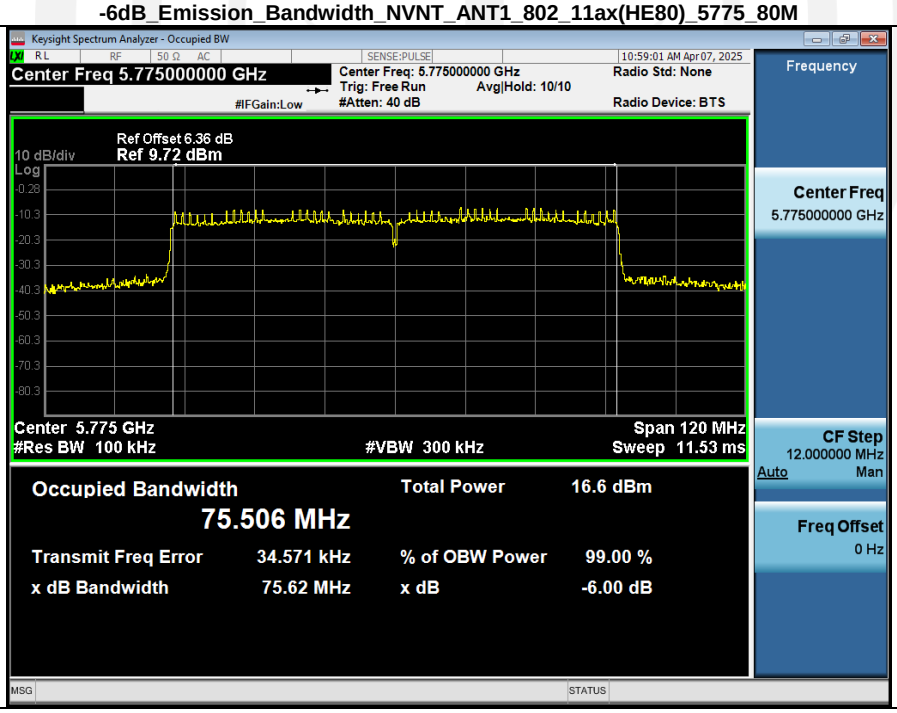
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE40)_5795_40M



-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT80)_5775_80M

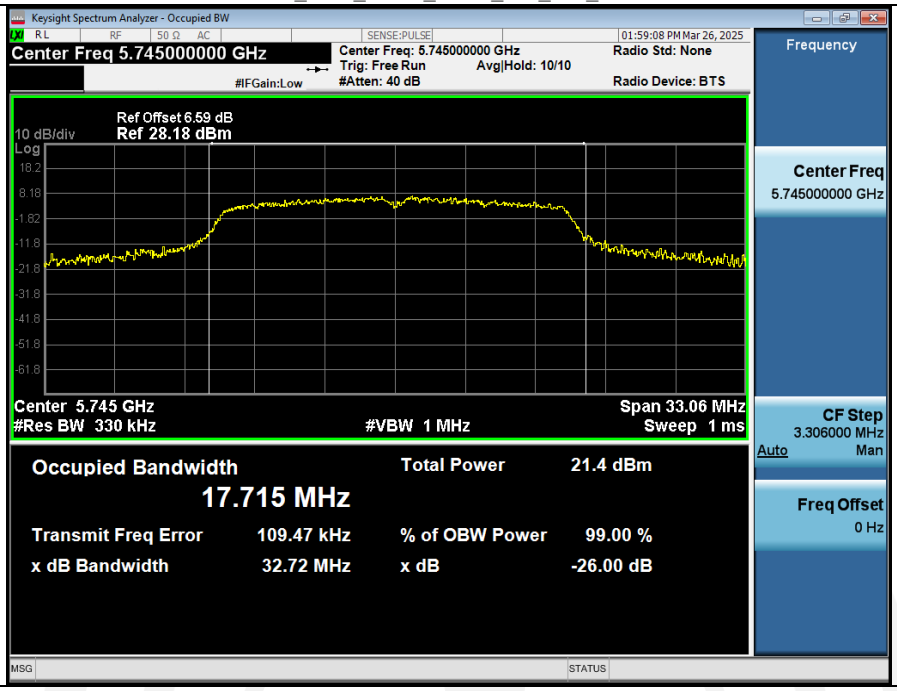


-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE80)_5775_80M



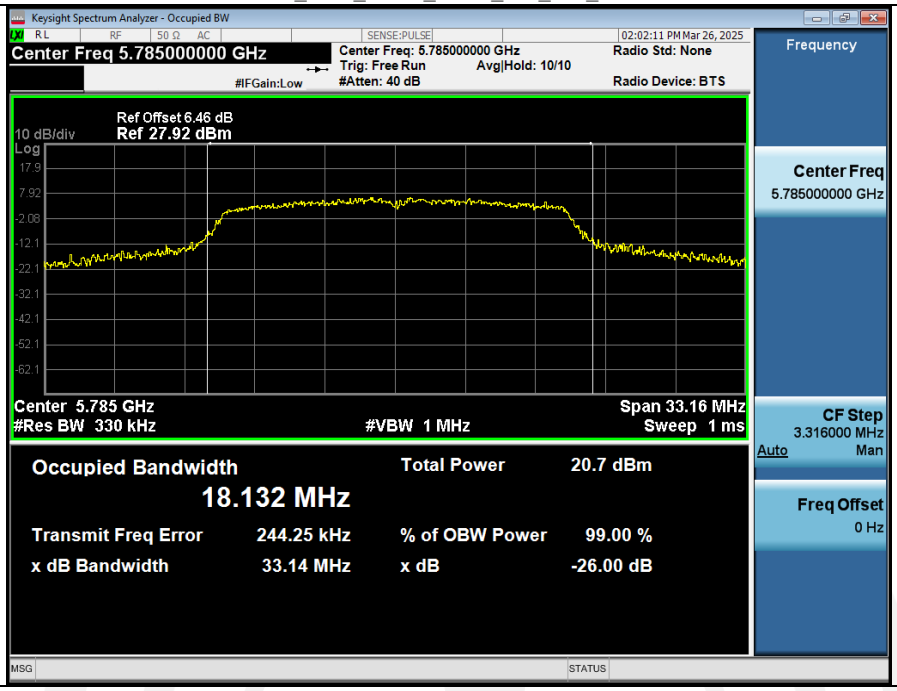
Condition	Antenna	Modulation	Frequency(MHz)	- 26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	34.41	17.71
NVNT	ANT1	802.11a	5785.00	34.10	18.13
NVNT	ANT1	802.11a	5825.00	34.15	18.48
NVNT	ANT1	802.11n(HT20)	5745.00	35.29	18.78
NVNT	ANT1	802.11n(HT20)	5785.00	36.57	19.04
NVNT	ANT1	802.11n(HT20)	5825.00	39.66	19.18
NVNT	ANT1	802.11ac(VHT20)	5745.00	37.22	18.61
NVNT	ANT1	802.11ac(VHT20)	5785.00	35.97	18.87
NVNT	ANT1	802.11ac(VHT20)	5825.00	38.21	19.11
NVNT	ANT1	802.11ax(HE20)	5745.00	36.31	18.59
NVNT	ANT1	802.11ax(HE20)	5785.00	38.03	18.80
NVNT	ANT1	802.11ax(HE20)	5825.00	38.23	19.09
NVNT	ANT1	802.11n(HT40)	5755.00	73.25	37.37
NVNT	ANT1	802.11n(HT40)	5795.00	76.91	39.39
NVNT	ANT1	802.11ac(VHT40)	5755.00	85.19	39.03
NVNT	ANT1	802.11ac(VHT40)	5795.00	84.29	40.60
NVNT	ANT1	802.11ax(HE40)	5755.00	77.37	38.94
NVNT	ANT1	802.11ax(HE40)	5795.00	81.77	39.97
NVNT	ANT1	802.11ac(VHT80)	5775.00	105.05	75.97
NVNT	ANT1	802.11ax(HE80)	5775.00	117.50	76.03

99%_OCB_NVNT_ANT1_802_11a_5745

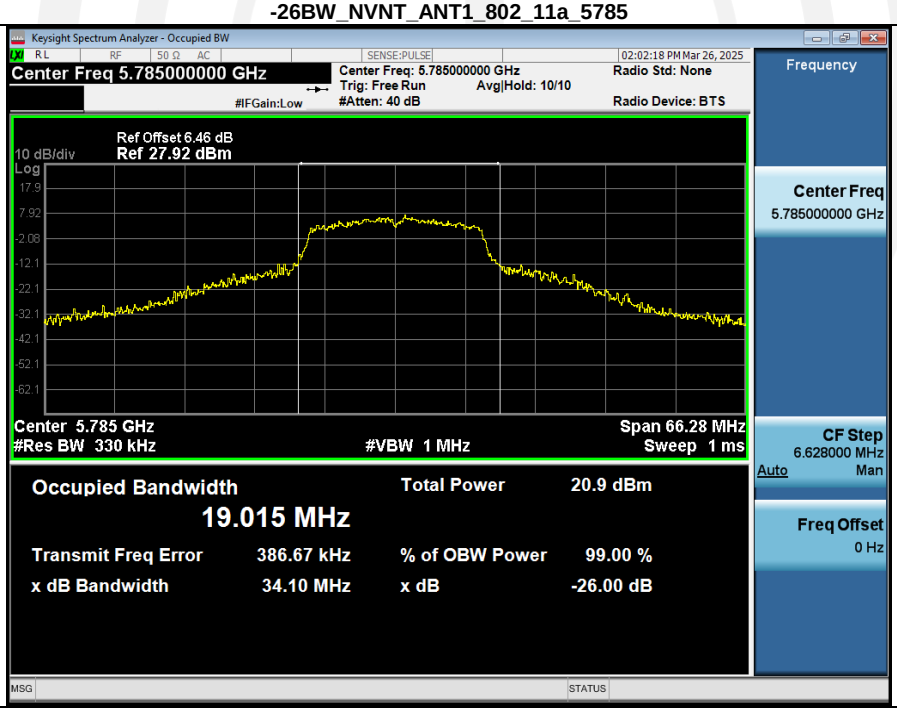


-26BW_NVNT_ANT1_802_11a_5745

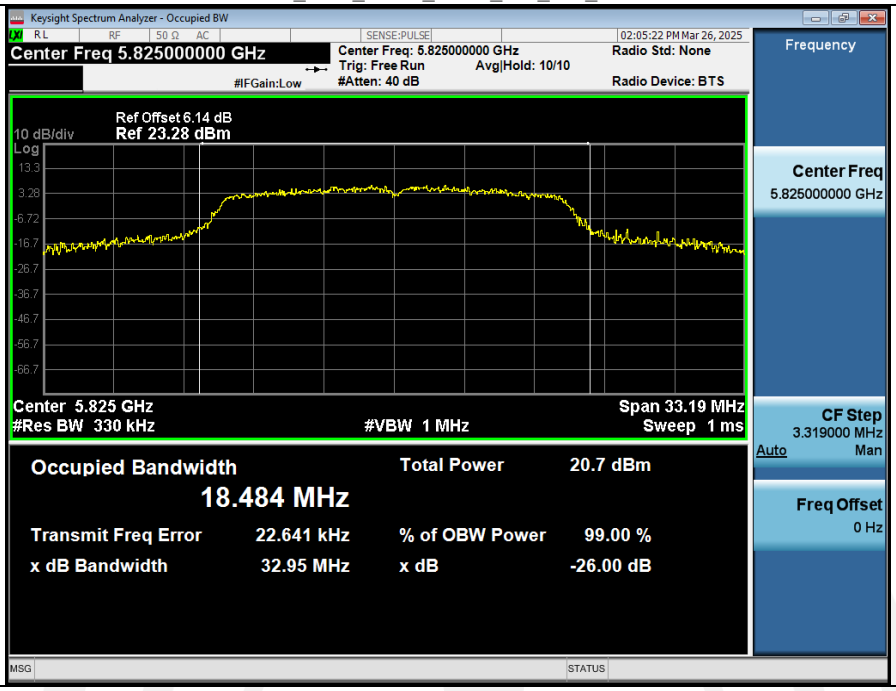
99%_OCB_NVNT_ANT1_802_11a_5785



-26BW_NVNT_ANT1_802_11a_5785



99%_OCB_NVNT_ANT1_802_11a_5825



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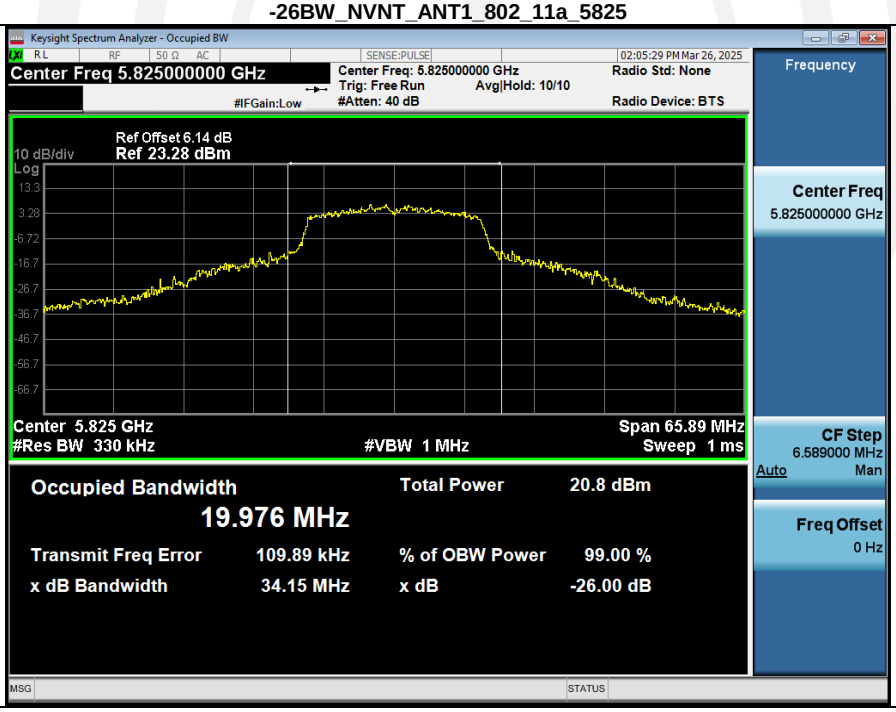

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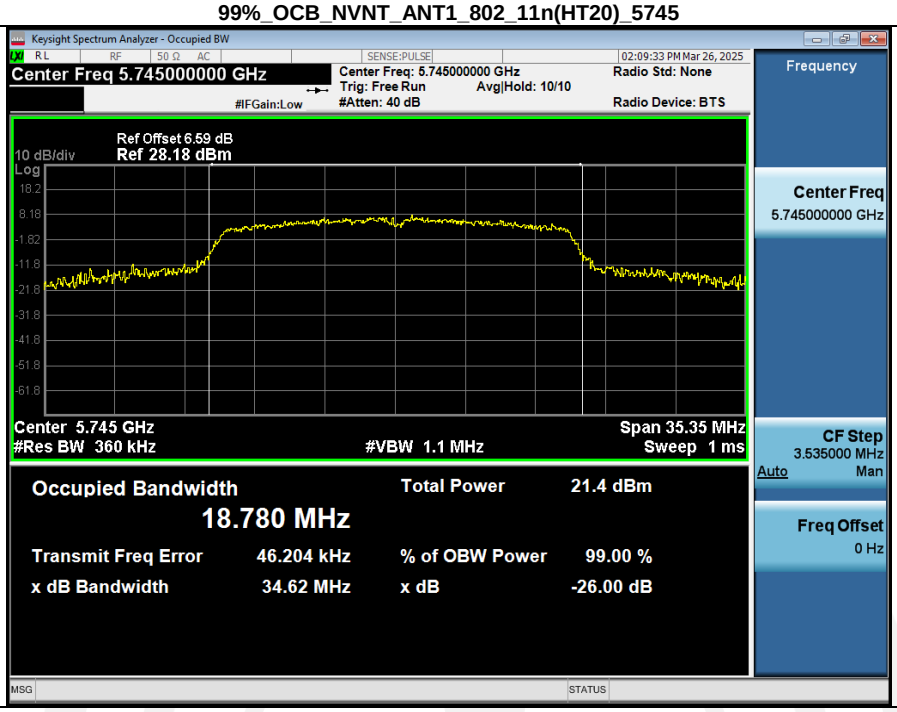

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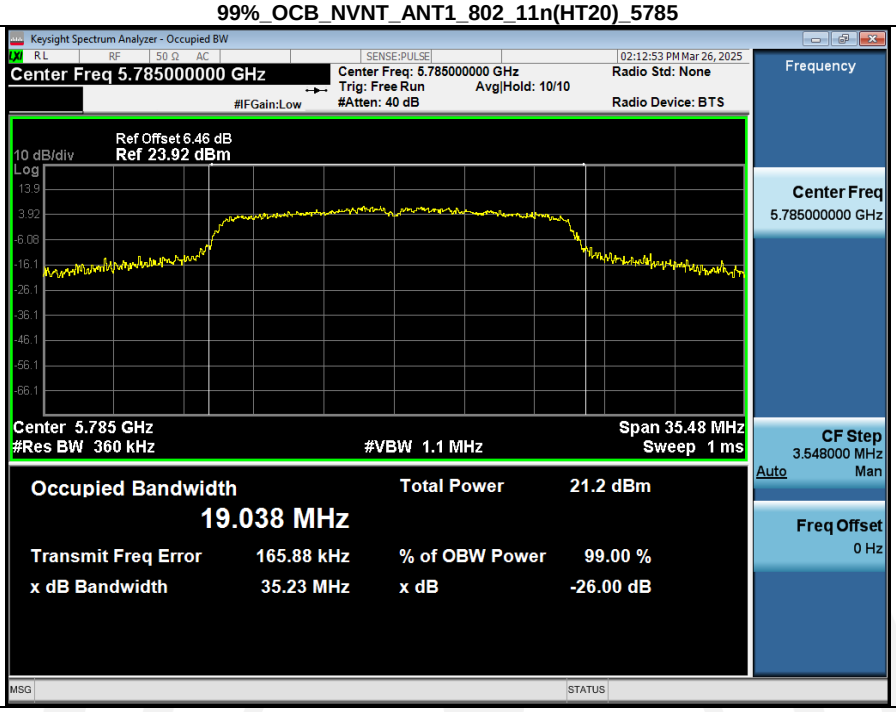
99%_OCB_NVNT_ANT1_802_11n(HT20)_5785



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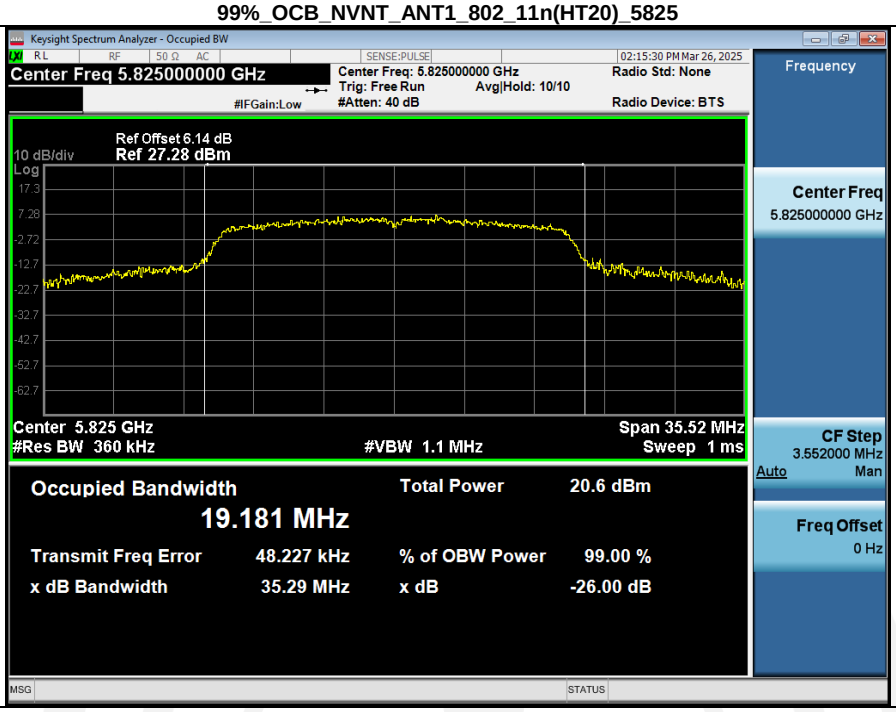
99%_OCB_NVNT_ANT1_802_11n(HT20)_5825



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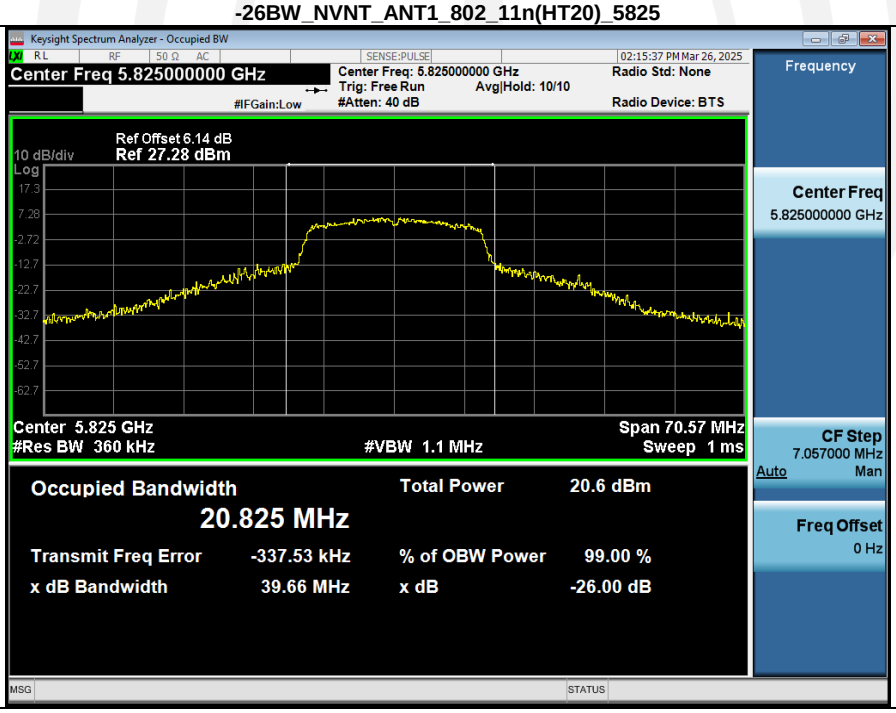
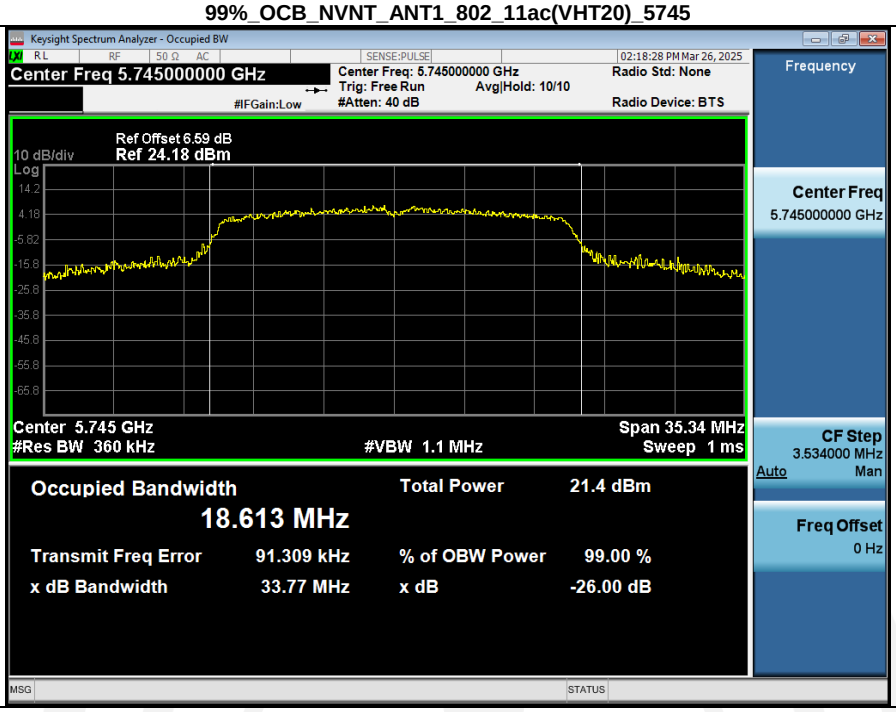


99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5745



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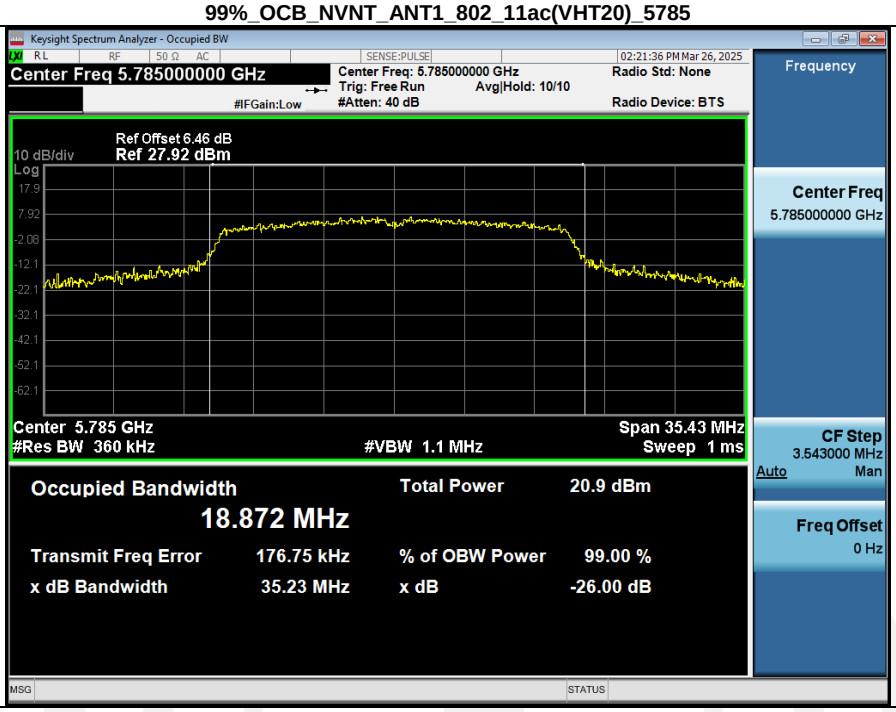
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5785



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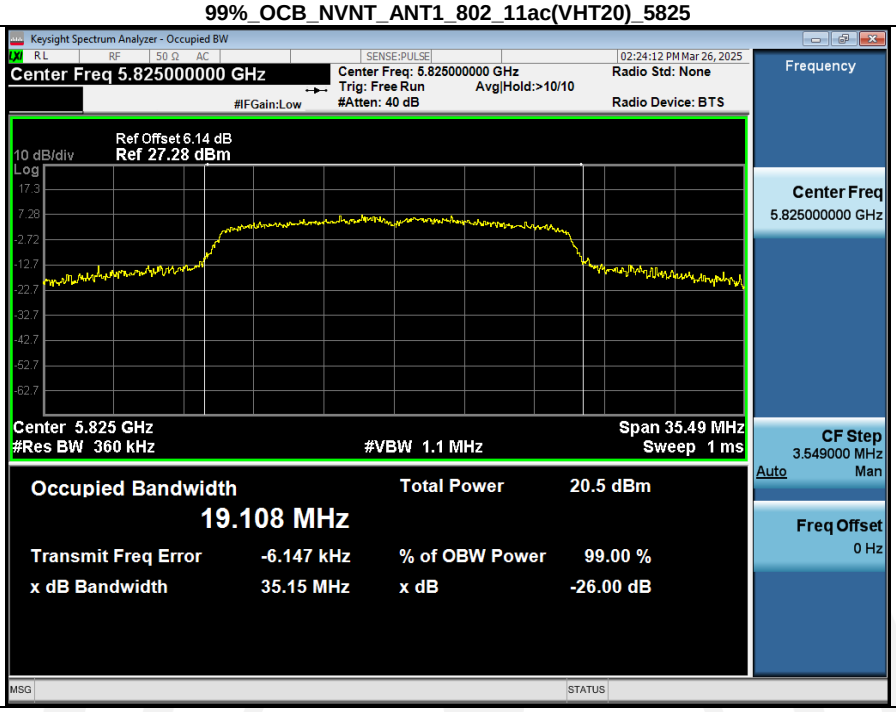
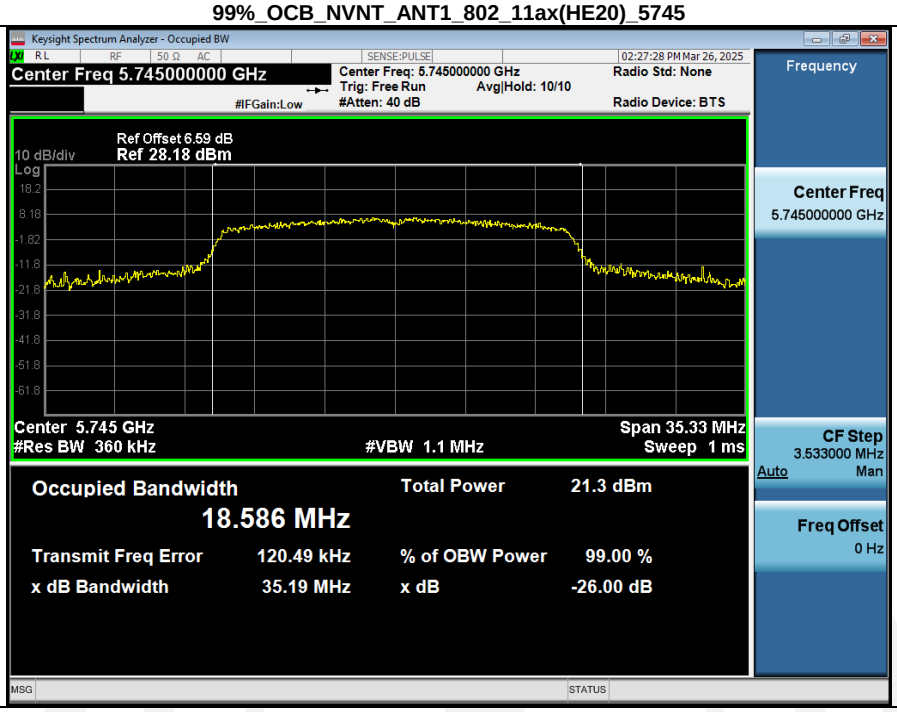
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5825



-26BW_NVNT_ANT1_802_11ac(VHT20)_5825

99%_OCB_NVNT_ANT1_802_11ax(HE20)_5745



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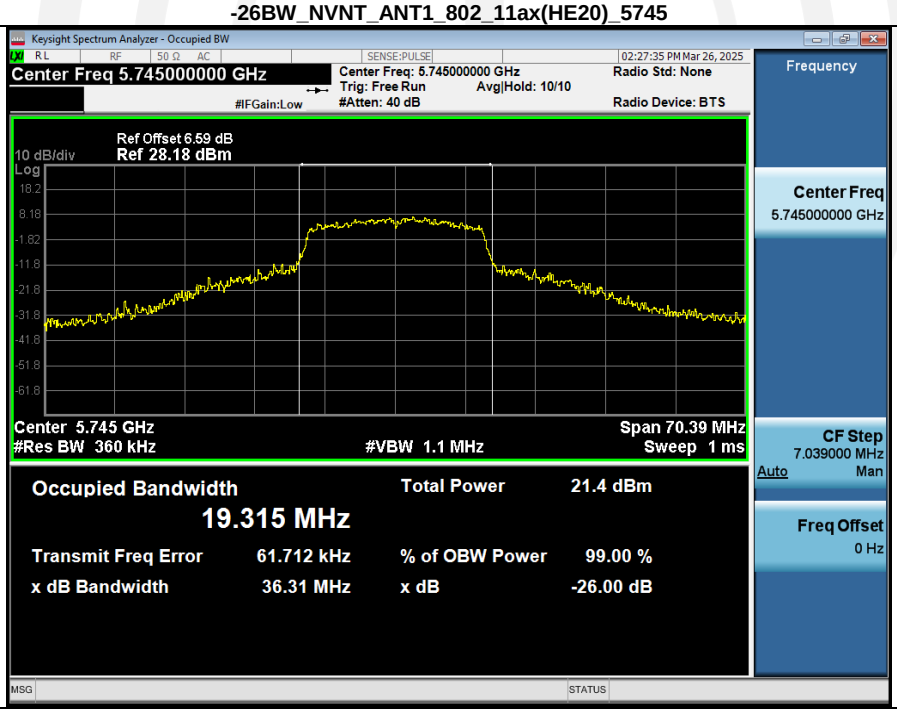

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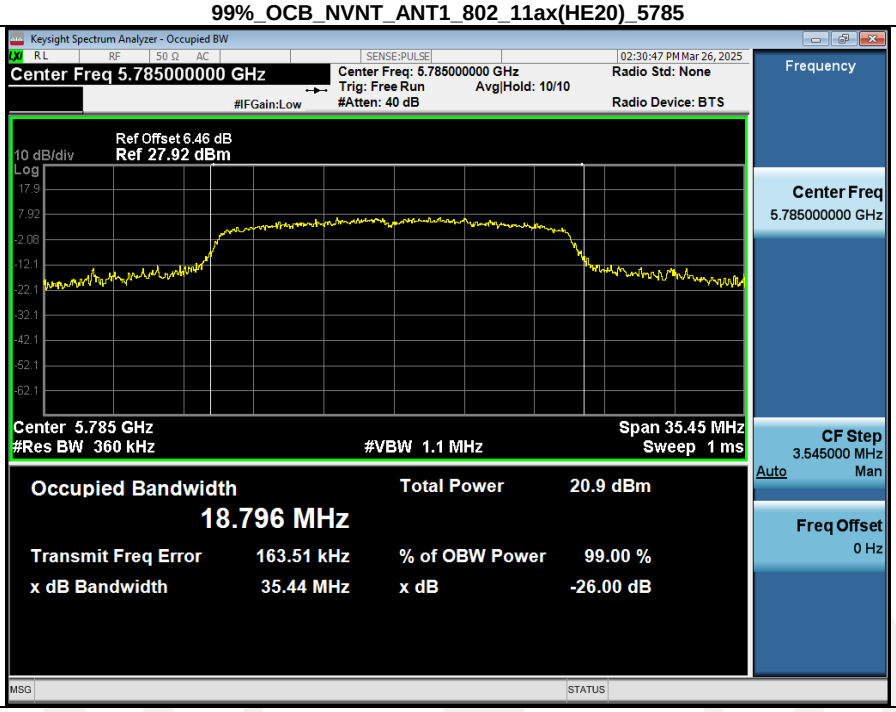

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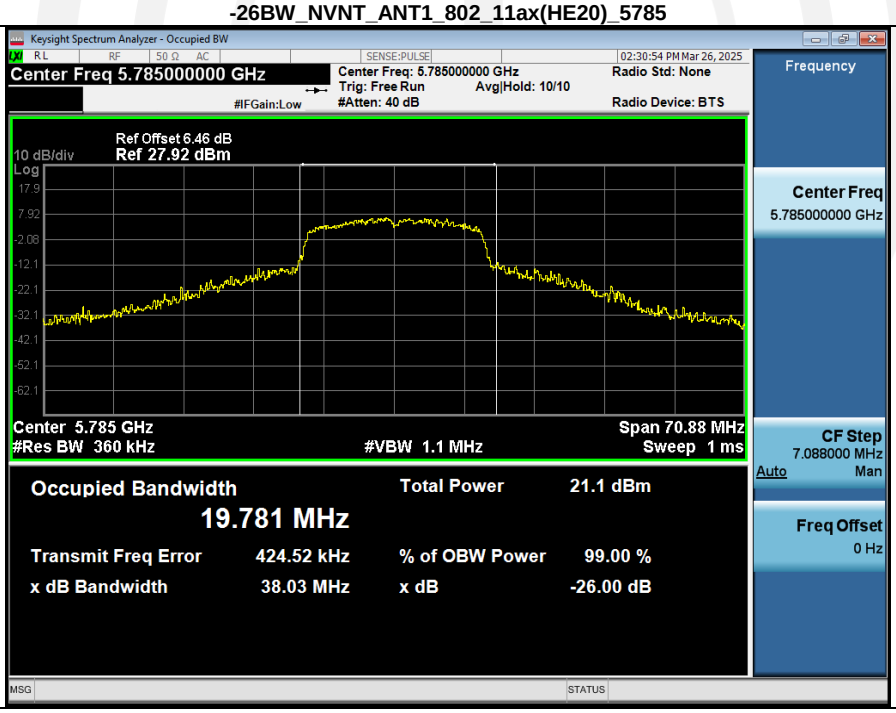
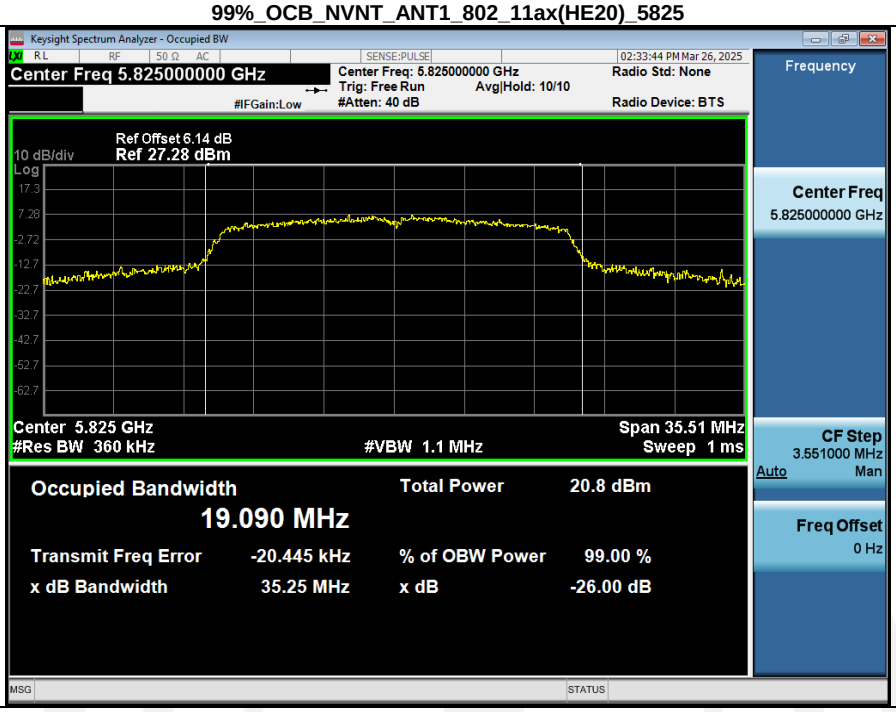


99%_OCB_NVNT_ANT1_802_11ax(HE20)_5825



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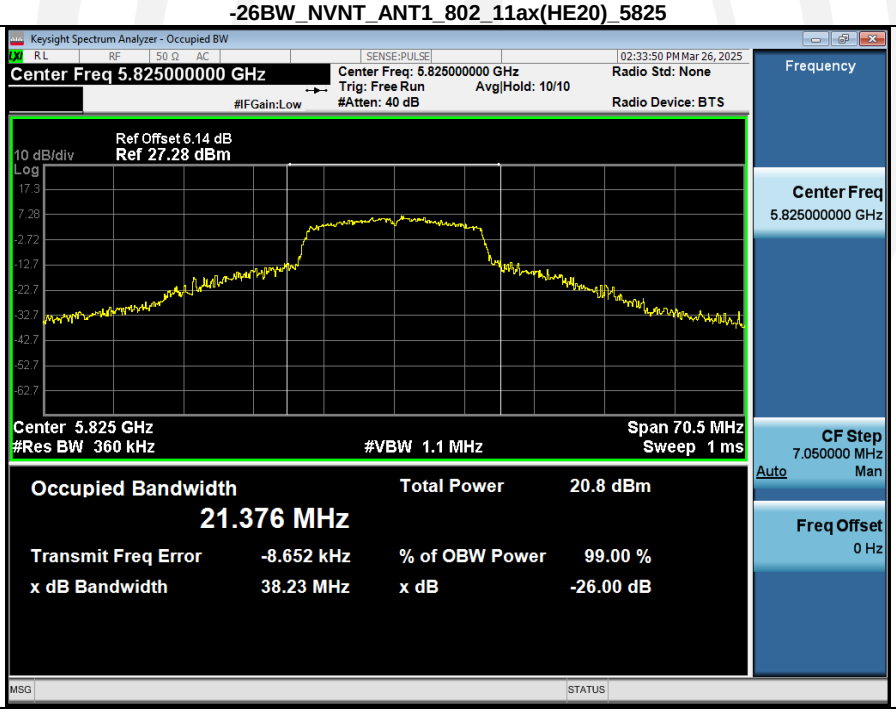
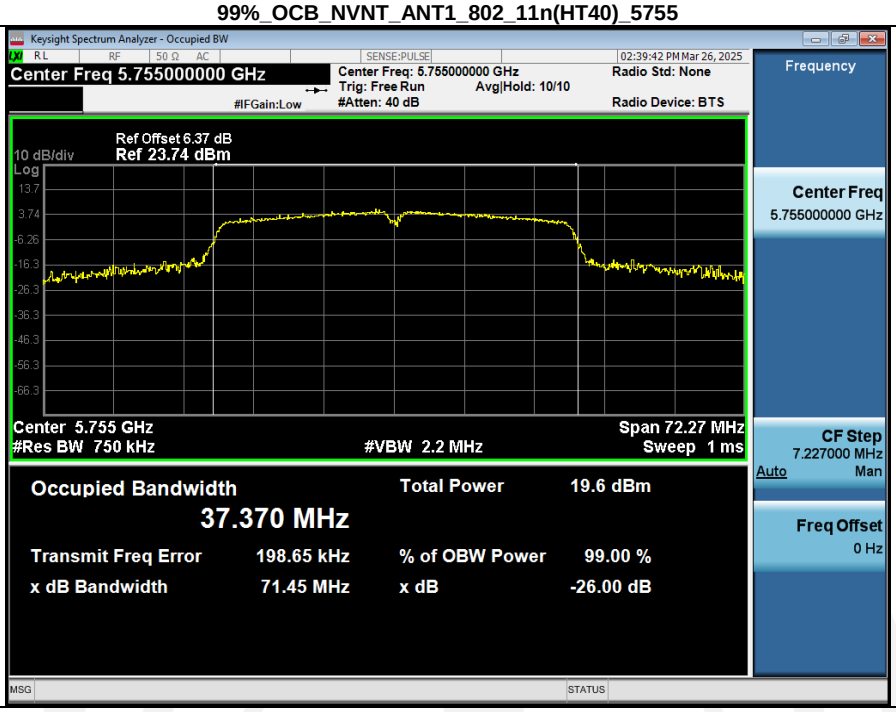


99%_OCB_NVNT_ANT1_802_11n(HT40)_5755



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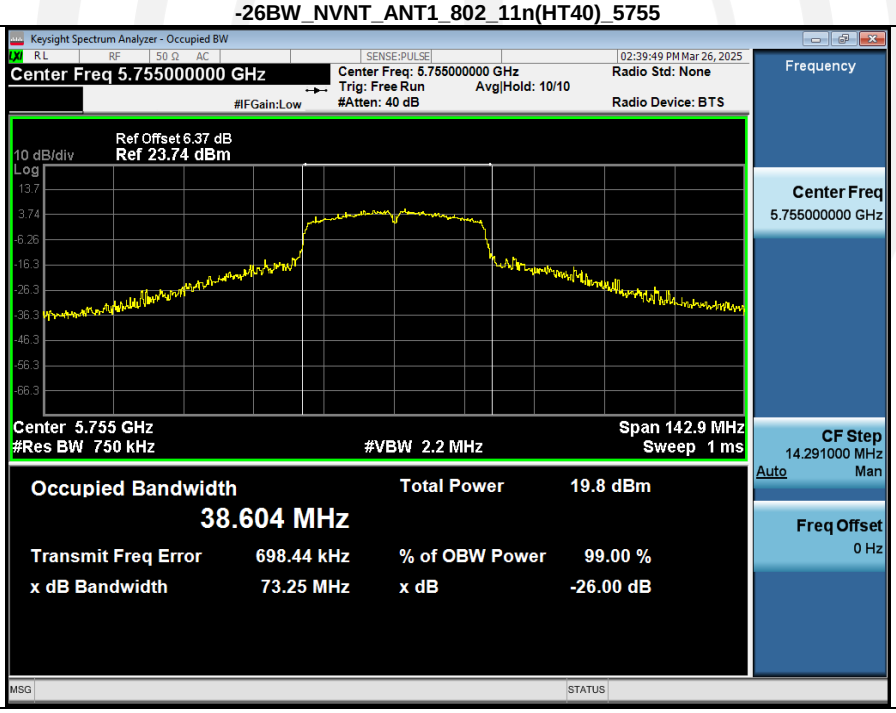

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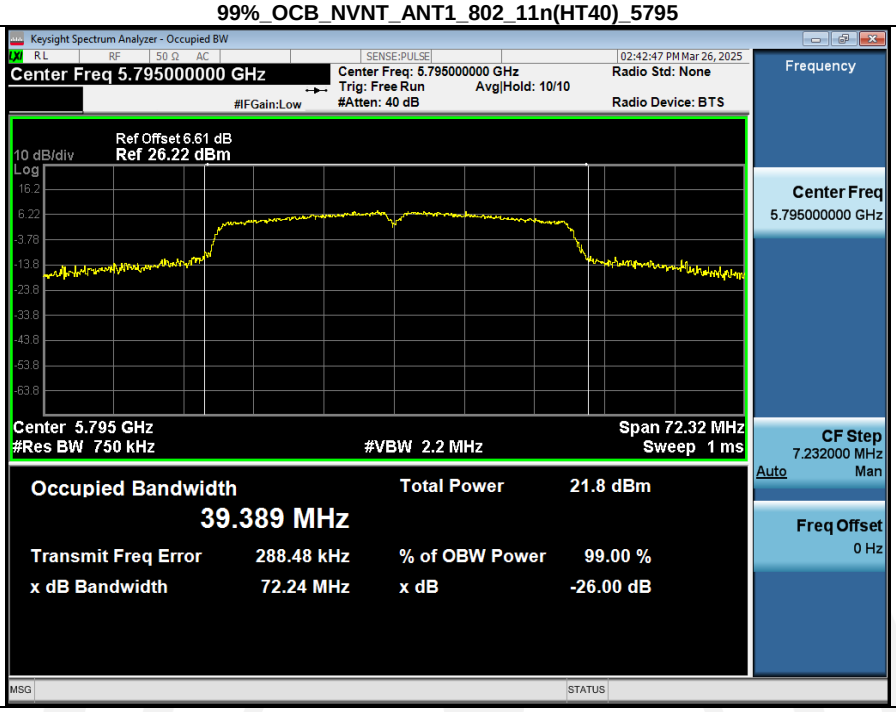

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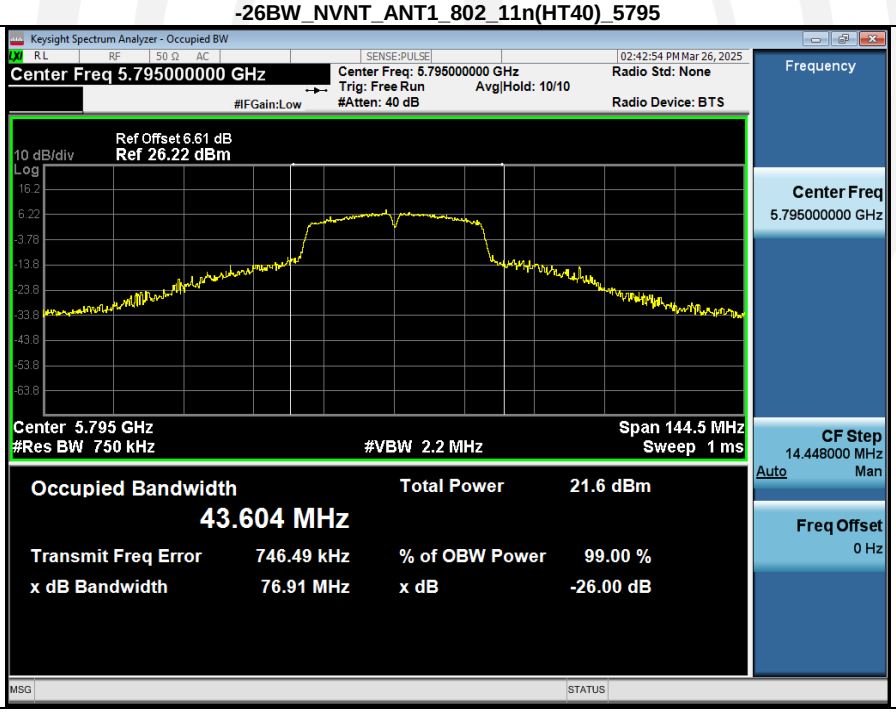
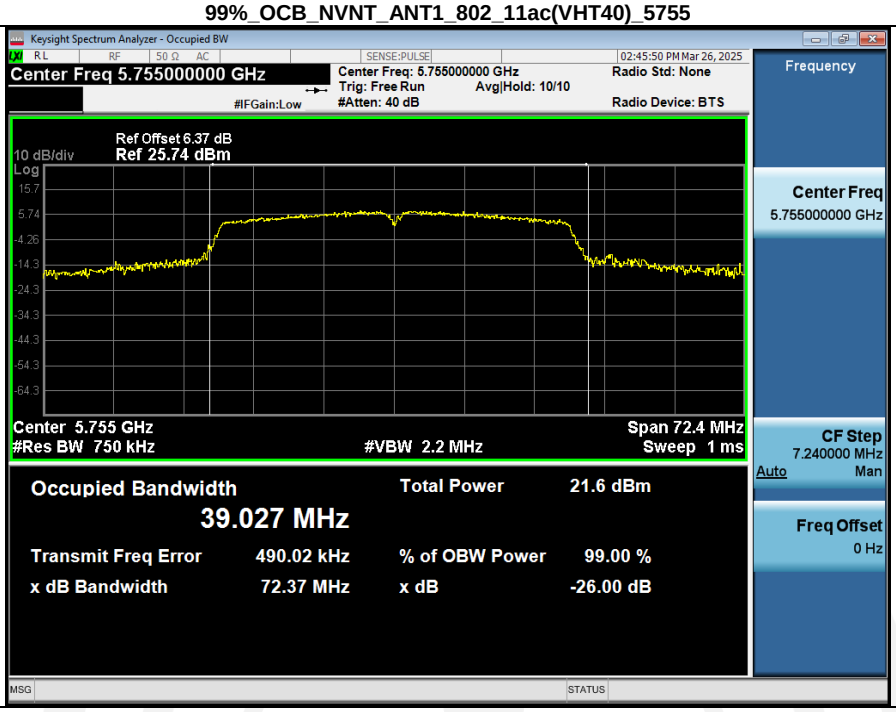


99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5755



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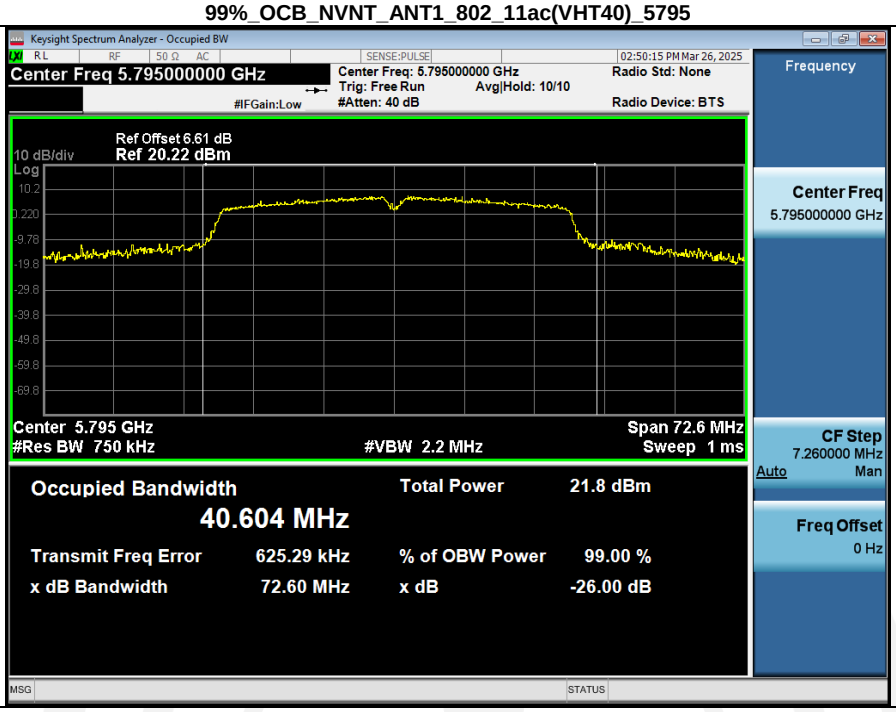
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5795



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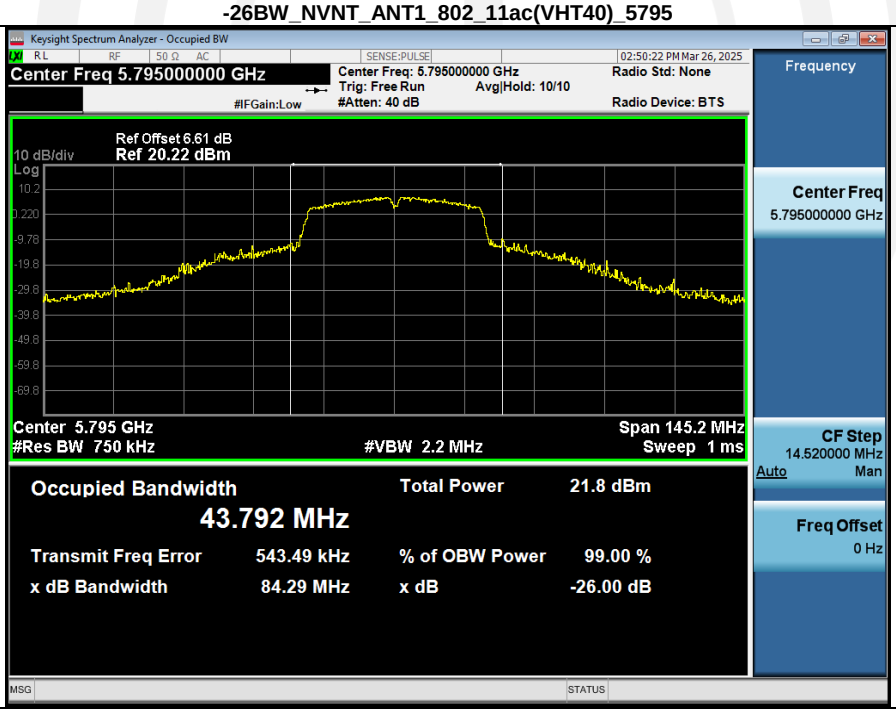
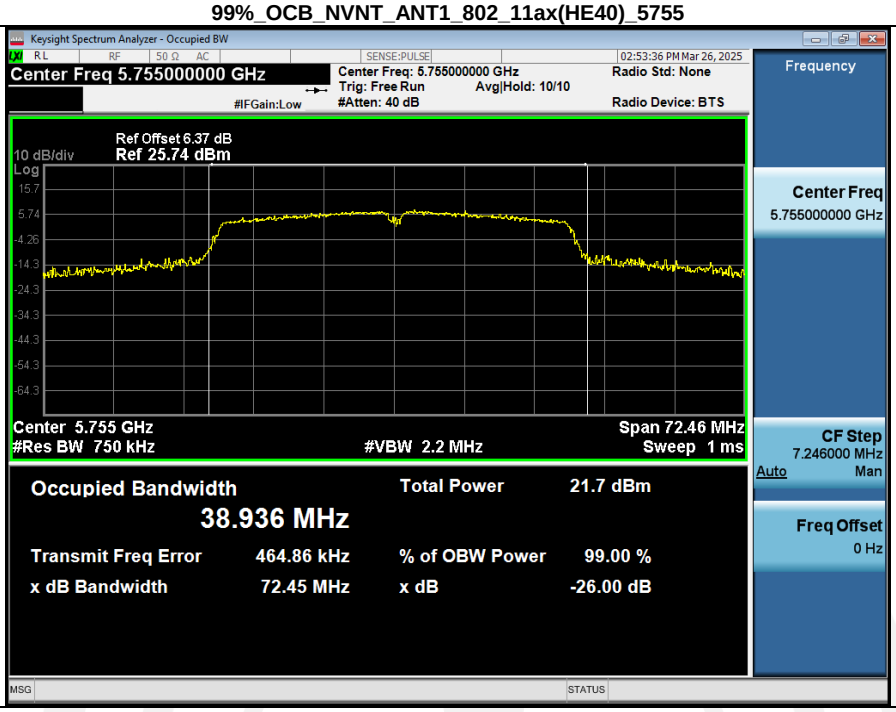
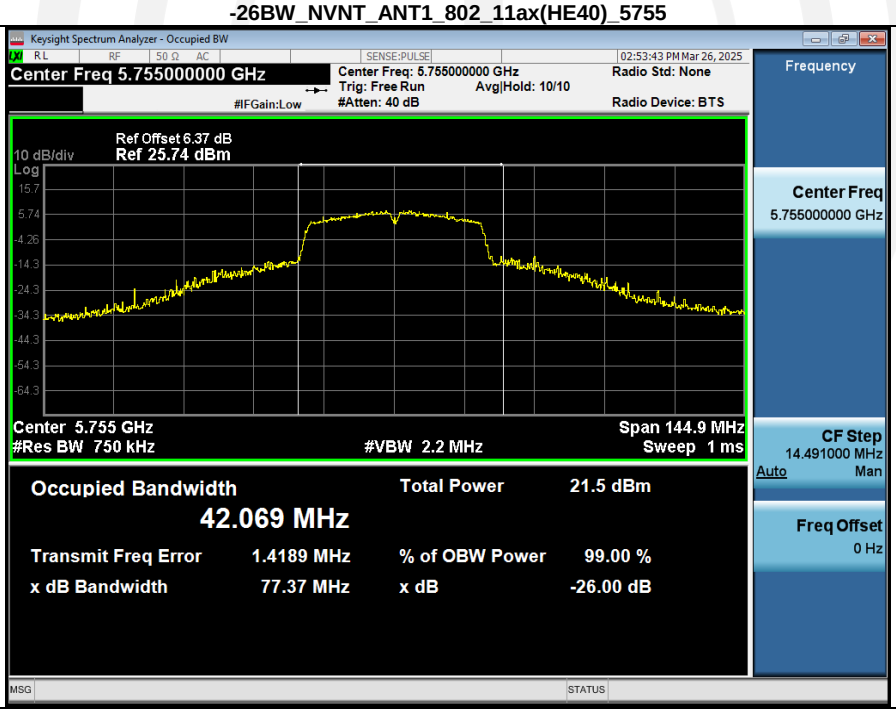


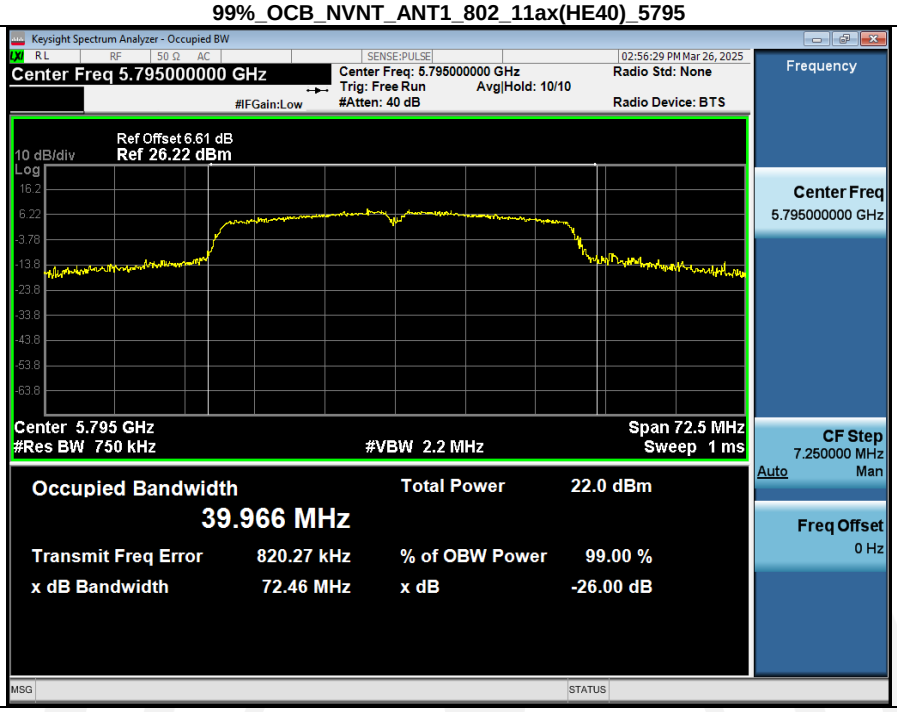
99%_OCB_NVNT_ANT1_802_11ax(HE40)_5755



-26BW_NVNT_ANT1_802_11ax(HE40)_5755

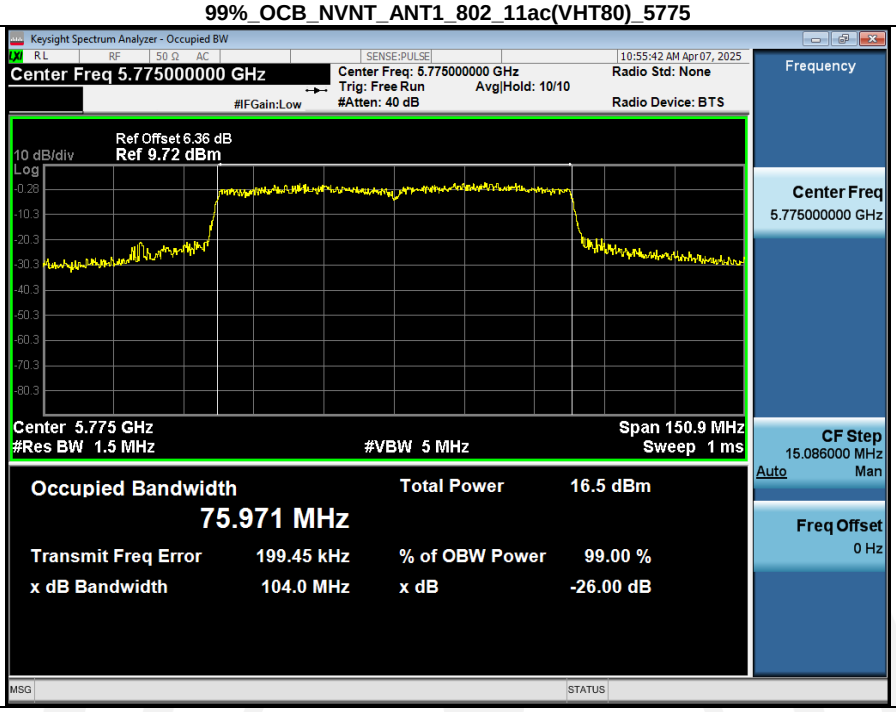


99%_OCB_NVNT_ANT1_802_11ax(HE40)_5795



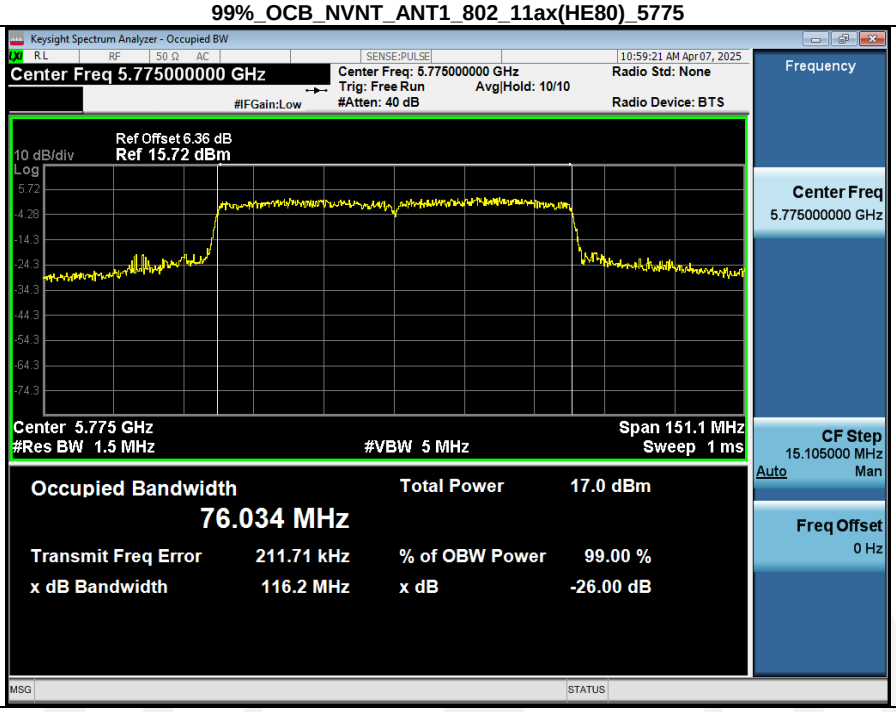
-26BW_NVNT_ANT1_802_11ax(HE40)_5795

99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5775



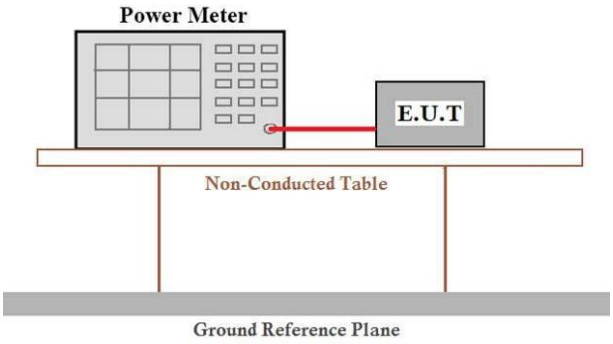
-26BW_NVNT_ANT1_802_11ac(VHT80)_5775

99%_OCB_NVNT_ANT1_802_11ax(HE80)_5775



-26BW_NVNT_ANT1_802_11ax(HE80)_5775

4.4 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. IC: For the 5.15–5.25 GHz band, For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. For the 5.25–5.35 GHz band, Other than devices installed in vehicles, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log10 B, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10 B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log10 B, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10 B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test setup:	
Test procedure:	**Measurement using an RF average power meter** (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the

	conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Band 1 (5150-5250 MHz) SISO:

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.79	0.09	12.88	24	Pass
NVNT	ANT1	802.11a	5200.00	13.00	0.12	13.12	24	Pass
NVNT	ANT1	802.11a	5240.00	12.58	0.12	12.70	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	12.92	0.10	13.02	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	12.96	0.10	13.06	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	12.67	0.10	12.77	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	12.77	0.10	12.87	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	12.80	0.10	12.90	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	12.65	0.13	12.78	24	Pass
NVNT	ANT1	802.11ax(HE20)	5180.00	12.53	0.10	12.63	24	Pass
NVNT	ANT1	802.11ax(HE20)	5200.00	12.85	0.13	12.98	24	Pass
NVNT	ANT1	802.11ax(HE20)	5240.00	12.54	0.13	12.67	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	12.93	0.26	13.19	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	13.05	0.26	13.31	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	12.99	0.13	13.12	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	13.09	0.13	13.22	24	Pass
NVNT	ANT1	802.11ax(HE40)	5190.00	12.96	0.13	13.09	24	Pass
NVNT	ANT1	802.11ax(HE40)	5230.00	13.03	0.19	13.22	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	9.08	1.91	10.99	24	Pass
NVNT	ANT1	802.11ax(HE80)	5210.00	9.84	1.66	11.50	24	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	97.90	0.09
NVNT	ANT1	802.11a	5200.00	97.20	0.12
NVNT	ANT1	802.11a	5240.00	97.20	0.12
NVNT	ANT1	802.11n(HT20)	5180.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5200.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5240.00	97.74	0.10
NVNT	ANT1	802.11ac(VHT20)	5180.00	97.76	0.10
NVNT	ANT1	802.11ac(VHT20)	5200.00	97.78	0.10
NVNT	ANT1	802.11ac(VHT20)	5240.00	97.04	0.13
NVNT	ANT1	802.11ax(HE20)	5180.00	97.76	0.10
NVNT	ANT1	802.11ax(HE20)	5200.00	97.04	0.13
NVNT	ANT1	802.11ax(HE20)	5240.00	97.04	0.13
NVNT	ANT1	802.11n(HT40)	5190.00	94.12	0.26
NVNT	ANT1	802.11n(HT40)	5230.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5190.00	97.10	0.13
NVNT	ANT1	802.11ac(VHT40)	5230.00	97.10	0.13
NVNT	ANT1	802.11ax(HE40)	5190.00	97.10	0.13
NVNT	ANT1	802.11ax(HE40)	5230.00	95.65	0.19
NVNT	ANT1	802.11ac(VHT80)	5210.00	64.44	1.91
NVNT	ANT1	802.11ax(HE80)	5210.00	68.18	1.66

Band 2 (5260-5320 MHz) SISO:

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	12.67	0.09	12.76	24	Pass
NVNT	ANT1	802.11a	5300.00	12.36	0.09	12.45	24	Pass
NVNT	ANT1	802.11a	5320.00	12.34	0.12	12.46	24	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	12.39	0.10	12.49	24	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	12.53	0.10	12.63	24	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	12.16	0.13	12.29	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	11.96	0.13	12.09	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	11.97	0.13	12.10	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	11.72	0.10	11.82	24	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	12.16	0.20	12.36	24	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	12.20	0.20	12.40	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	12.33	0.19	12.52	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	12.26	0.26	12.52	24	Pass
NVNT	ANT1	802.11ax(HE20)	5260.00	12.12	0.13	12.25	24	Pass
NVNT	ANT1	802.11ax(HE20)	5300.00	12.48	0.13	12.61	24	Pass
NVNT	ANT1	802.11ax(HE20)	5320.00	12.24	0.13	12.37	24	Pass
NVNT	ANT1	802.11ax(HE40)	5270.00	12.90	0.26	13.16	24	Pass
NVNT	ANT1	802.11ax(HE40)	5310.00	12.35	0.13	12.48	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	9.71	1.76	11.47	24	Pass
NVNT	ANT1	802.11ax(HE80)	5290.00	9.82	1.81	11.63	24	Pass

Condition	Antenna	Modulation	Frequency(MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5260.00	97.90	0.09
NVNT	ANT1	802.11a	5300.00	97.90	0.09
NVNT	ANT1	802.11a	5320.00	97.20	0.12
NVNT	ANT1	802.11n(HT20)	5260.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5300.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5320.00	97.01	0.13
NVNT	ANT1	802.11ac(VHT20)	5260.00	97.04	0.13
NVNT	ANT1	802.11ac(VHT20)	5300.00	97.04	0.13
NVNT	ANT1	802.11ac(VHT20)	5320.00	97.76	0.10
NVNT	ANT1	802.11n(HT40)	5270.00	95.59	0.20
NVNT	ANT1	802.11n(HT40)	5310.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT40)	5270.00	95.65	0.19
NVNT	ANT1	802.11ac(VHT40)	5310.00	94.20	0.26
NVNT	ANT1	802.11ax(HE20)	5260.00	97.04	0.13
NVNT	ANT1	802.11ax(HE20)	5300.00	97.04	0.13
NVNT	ANT1	802.11ax(HE20)	5320.00	97.04	0.13
NVNT	ANT1	802.11ax(HE40)	5270.00	94.20	0.26
NVNT	ANT1	802.11ax(HE40)	5310.00	97.10	0.13
NVNT	ANT1	802.11ac(VHT80)	5290.00	66.67	1.76
NVNT	ANT1	802.11ax(HE80)	5290.00	65.91	1.81

Band 3 (5500-5570 MHz) SISO:

Condition	Antenna	Modulation	Frequency(MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500	11.19	0.12	11.31	24	Pass
NVNT	ANT1	802.11a	5600	10.70	0.09	10.79	24	Pass
NVNT	ANT1	802.11a	5700.00	13.52	0.09	13.61	24	Pass
NVNT	ANT1	802.11n(HT20)	5500	10.82	0.13	10.95	24	Pass
NVNT	ANT1	802.11n(HT20)	5600	11.08	0.13	11.21	24	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	13.54	0.10	13.64	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5500	11.06	0.10	11.16	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5600	10.95	0.13	11.08	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	13.54	0.10	13.64	24	Pass
NVNT	ANT1	802.11n(HT40)	5510	11.63	0.26	11.89	24	Pass
NVNT	ANT1	802.11n(HT40)	5590	11.43	0.26	11.69	24	Pass
NVNT	ANT1	802.11n(HT40)	5670	13.16	0.26	13.42	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5510	11.57	0.26	11.83	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5590	11.10	0.26	11.36	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5670	13.62	0.26	13.88	24	Pass
NVNT	ANT1	802.11ax(HE20)	5500.00	10.90	0.10	11.00	24	Pass
NVNT	ANT1	802.11ax(HE20)	5600.00	11.41	0.13	11.54	24	Pass
NVNT	ANT1	802.11ax(HE20)	5700.00	13.84	0.10	13.94	24	Pass
NVNT	ANT1	802.11ax(HE40)	5510.00	11.73	0.26	11.99	24	Pass
NVNT	ANT1	802.11ax(HE40)	5590.00	11.81	0.26	12.07	24	Pass
NVNT	ANT1	802.11ax(HE40)	5670.00	14.21	0.20	14.41	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5530	6.76	1.81	8.57	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5610	5.36	1.66	7.02	24	Pass
NVNT	ANT1	802.11ax(HE80)	5530.00	6.88	1.81	8.69	24	Pass
NVNT	ANT1	802.11ax(HE80)	5610.00	5.55	1.81	7.36	24	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5500.00	97.20	0.12
NVNT	ANT1	802.11a	5600.00	97.90	0.09
NVNT	ANT1	802.11a	5700.00	97.89	0.09
NVNT	ANT1	802.11n(HT20)	5500.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5600.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5700.00	97.74	0.10
NVNT	ANT1	802.11ac(VHT20)	5500.00	97.76	0.10
NVNT	ANT1	802.11ac(VHT20)	5600.00	97.04	0.13
NVNT	ANT1	802.11ac(VHT20)	5700.00	97.78	0.10
NVNT	ANT1	802.11n(HT40)	5510.00	94.20	0.26
NVNT	ANT1	802.11n(HT40)	5590.00	94.12	0.26
NVNT	ANT1	802.11n(HT40)	5670.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5510.00	94.20	0.26
NVNT	ANT1	802.11ac(VHT40)	5590.00	94.20	0.26
NVNT	ANT1	802.11ac(VHT40)	5670.00	94.20	0.26
NVNT	ANT1	802.11ax(HE20)	5500.00	97.74	0.10
NVNT	ANT1	802.11ax(HE20)	5600.00	97.01	0.13
NVNT	ANT1	802.11ax(HE20)	5700.00	97.74	0.10
NVNT	ANT1	802.11ax(HE40)	5510.00	94.20	0.26
NVNT	ANT1	802.11ax(HE40)	5590.00	94.12	0.26
NVNT	ANT1	802.11ax(HE40)	5670.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT80)	5530.00	65.91	1.81
NVNT	ANT1	802.11ac(VHT80)	5610.00	68.18	1.66
NVNT	ANT1	802.11ax(HE80)	5530.00	65.91	1.81
NVNT	ANT1	802.11ax(HE80)	5610.00	65.91	1.81

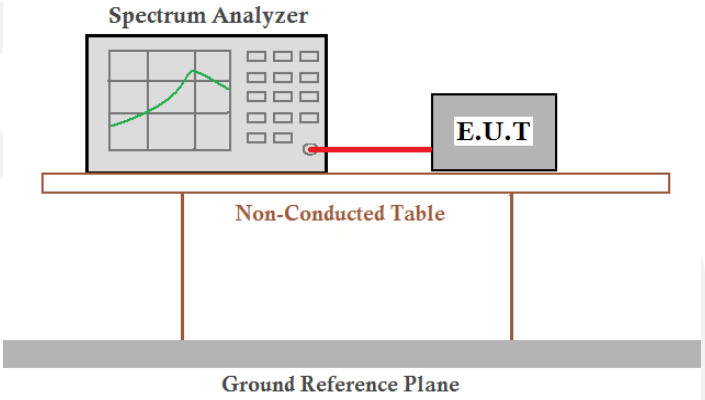
Band 4 (5725 – 5850 MHz) SISO:

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	14.71	0.12	14.83	30	Pass
NVNT	ANT1	802.11a	5785.00	14.04	0.09	14.13	30	Pass
NVNT	ANT1	802.11a	5825.00	14.10	0.09	14.19	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	14.85	0.10	14.95	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	14.73	0.10	14.83	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	13.97	0.13	14.10	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	14.42	0.13	14.55	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	14.15	0.10	14.25	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	13.97	0.13	14.10	30	Pass
NVNT	ANT1	802.11ax(HE20)	5745.00	14.51	0.10	14.61	30	Pass
NVNT	ANT1	802.11ax(HE20)	5785.00	14.86	0.13	14.99	30	Pass
NVNT	ANT1	802.11ax(HE20)	5825.00	13.89	0.13	14.02	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	12.68	0.26	12.94	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	14.58	0.26	14.84	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	14.44	0.26	14.70	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	14.58	0.13	14.71	30	Pass
NVNT	ANT1	802.11ax(HE40)	5755.00	14.56	0.26	14.82	30	Pass
NVNT	ANT1	802.11ax(HE40)	5795.00	14.78	0.26	15.04	30	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	6.96	1.86	8.82	30	Pass
NVNT	ANT1	802.11ax(HE80)	5775.00	6.94	1.66	8.60	30	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	97.20	0.12
NVNT	ANT1	802.11a	5785.00	97.89	0.09
NVNT	ANT1	802.11a	5825.00	97.90	0.09
NVNT	ANT1	802.11n(HT20)	5745.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5785.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5825.00	97.01	0.13
NVNT	ANT1	802.11ac(VHT20)	5745.00	97.04	0.13
NVNT	ANT1	802.11ac(VHT20)	5785.00	97.76	0.10
NVNT	ANT1	802.11ac(VHT20)	5825.00	97.04	0.13
NVNT	ANT1	802.11ax(HE20)	5745.00	97.78	0.10
NVNT	ANT1	802.11ax(HE20)	5785.00	97.04	0.13
NVNT	ANT1	802.11ax(HE20)	5825.00	97.04	0.13
NVNT	ANT1	802.11n(HT40)	5755.00	94.12	0.26
NVNT	ANT1	802.11n(HT40)	5795.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5755.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5795.00	97.10	0.13
NVNT	ANT1	802.11ax(HE40)	5755.00	94.12	0.26
NVNT	ANT1	802.11ax(HE40)	5795.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT80)	5775.00	65.22	1.86
NVNT	ANT1	802.11ax(HE80)	5775.00	68.18	1.66

Note: The measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power levels measured at the various output ports.

4.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	FCC: 1.≤11.00dBm/MHz for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2.≤30.00dBm/500KHz for 5725MHz-5850MHz IC: 1.For the 5.15-5.25 GHz, The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Test setup:	
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power…”. 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

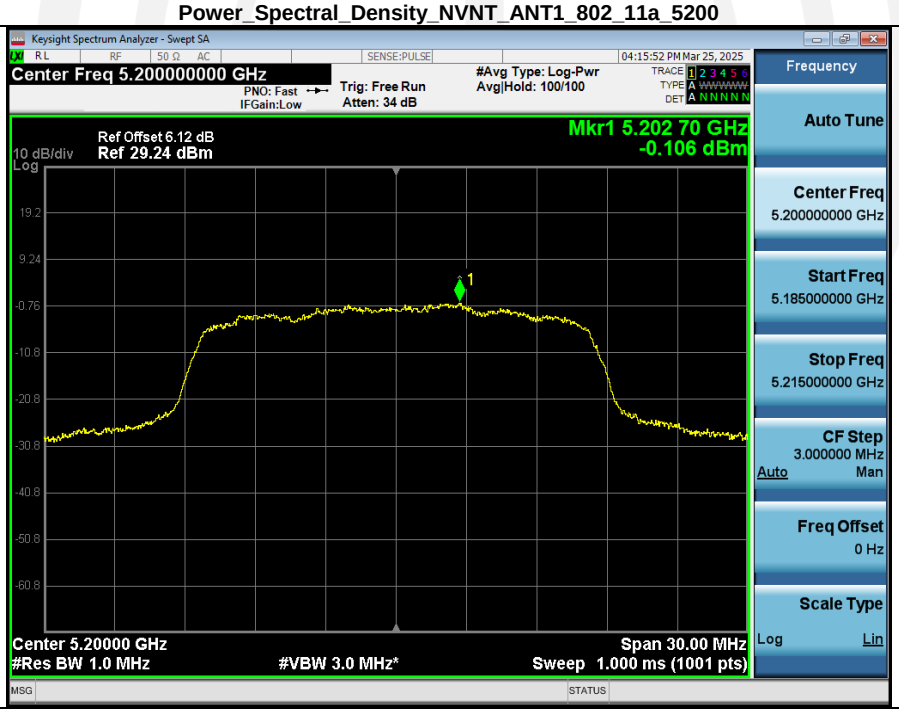
Measurement Data

Band 1 (5150-5250 MHz) SISO:

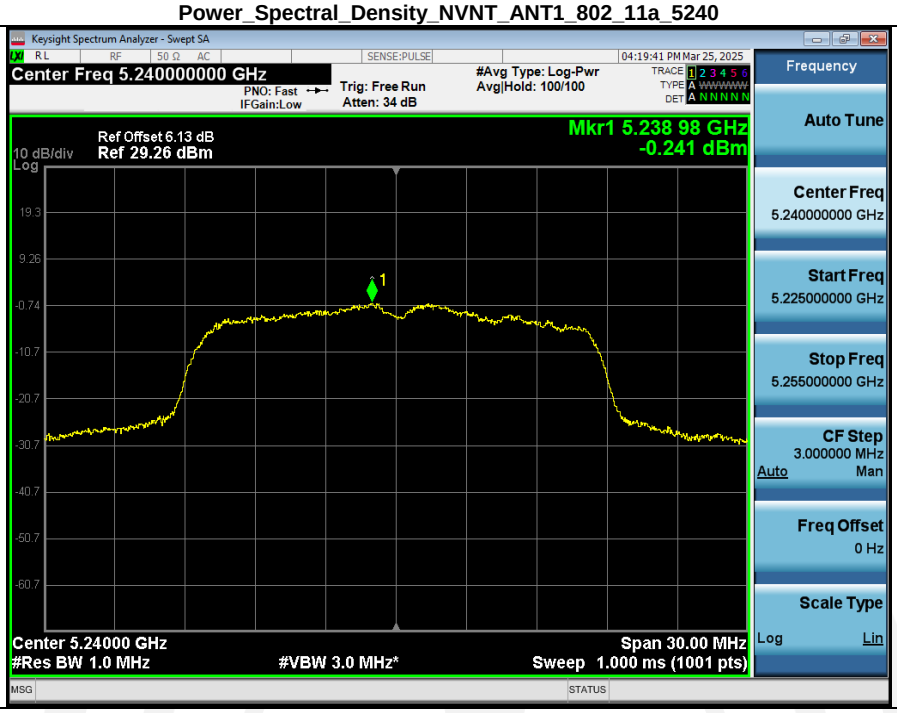
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	0.24	0.09	0.33	11	Pass
NVNT	ANT1	802.11a	5200.00	-0.11	0.12	0.01	11	Pass
NVNT	ANT1	802.11a	5240.00	-0.24	0.12	-0.12	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	0.15	0.10	0.26	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-0.60	0.10	-0.50	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-0.86	0.10	-0.76	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-0.55	0.10	-0.45	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-0.57	0.10	-0.47	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-0.45	0.13	-0.32	11	Pass
NVNT	ANT1	802.11ax(HE20)	5180.00	-0.16	0.10	-0.06	11	Pass
NVNT	ANT1	802.11ax(HE20)	5200.00	-0.80	0.13	-0.67	11	Pass
NVNT	ANT1	802.11ax(HE20)	5240.00	-0.73	0.13	-0.60	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-3.67	0.26	-3.41	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-4.21	0.26	-3.95	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-4.24	0.13	-4.11	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-4.92	0.13	-4.79	11	Pass
NVNT	ANT1	802.11ax(HE40)	5190.00	-3.88	0.13	-3.75	11	Pass
NVNT	ANT1	802.11ax(HE40)	5230.00	-3.48	0.19	-3.29	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-24.60	1.91	-22.69	11	Pass
NVNT	ANT1	802.11ax(HE80)	5210.00	-23.42	1.66	-21.76	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5180

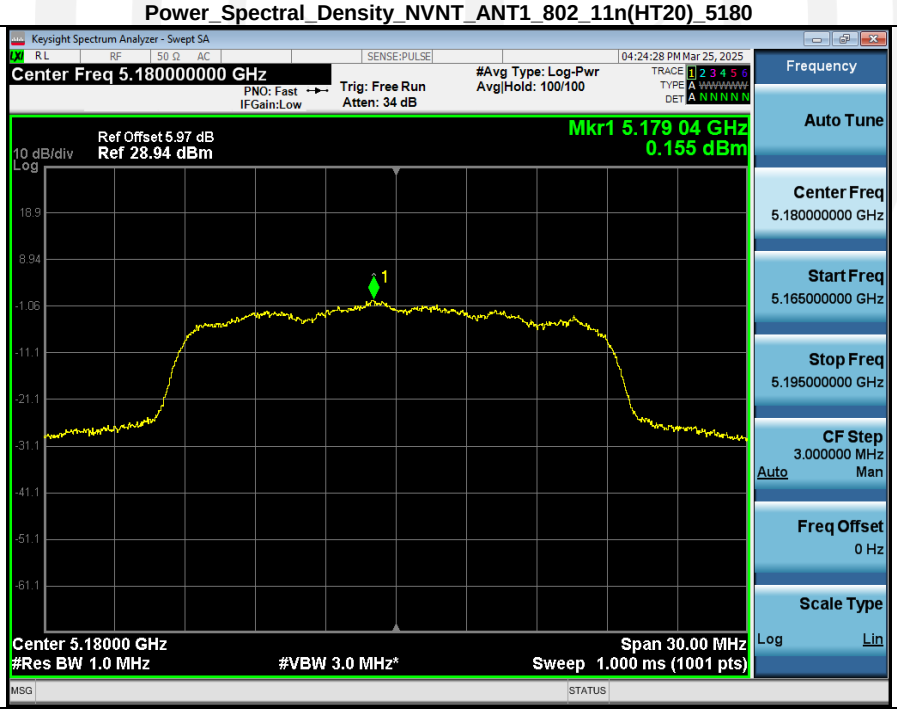
Power_Spectral_Density_NVNT_ANT1_802_11a_5200



Power_Spectral_Density_NVNT_ANT1_802_11a_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180



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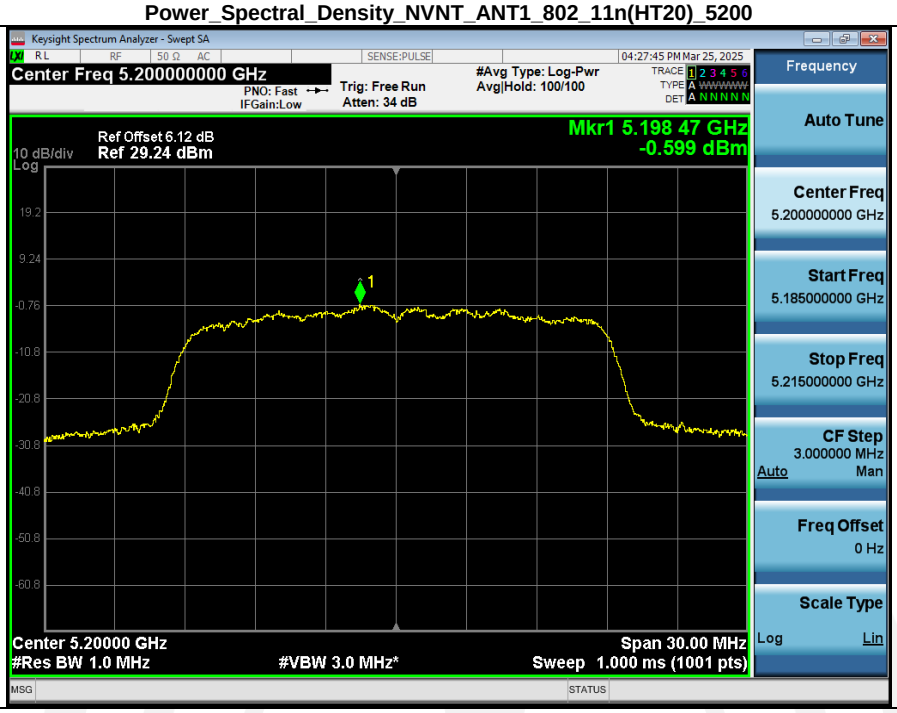
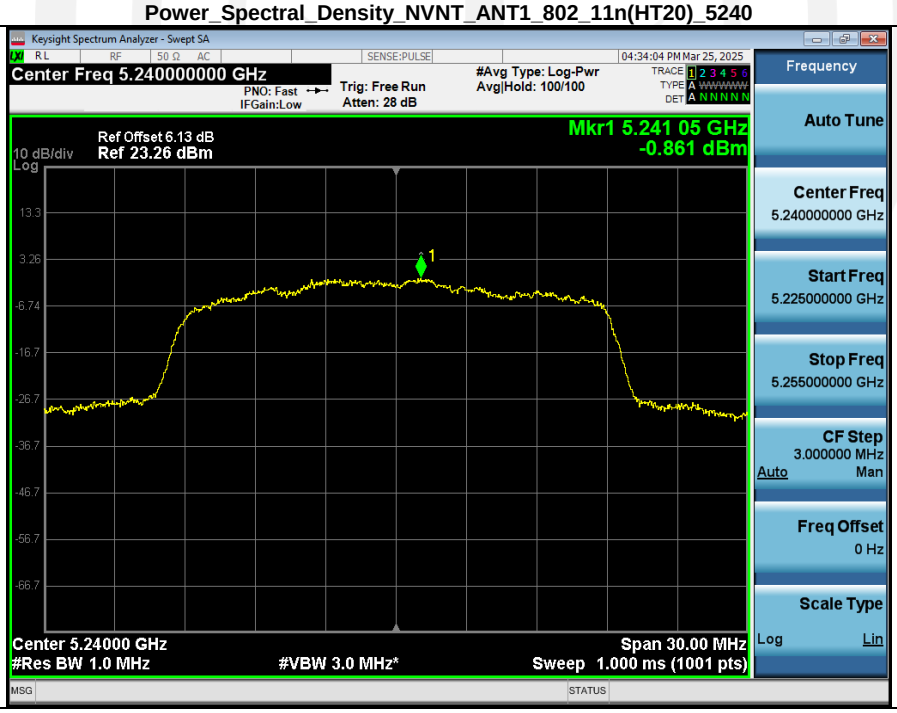
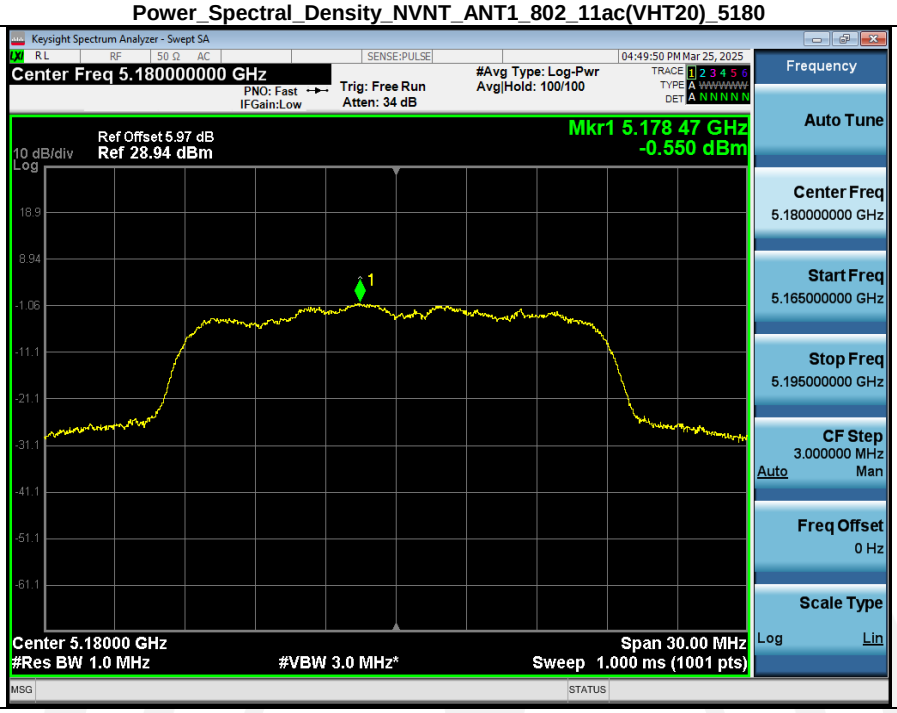


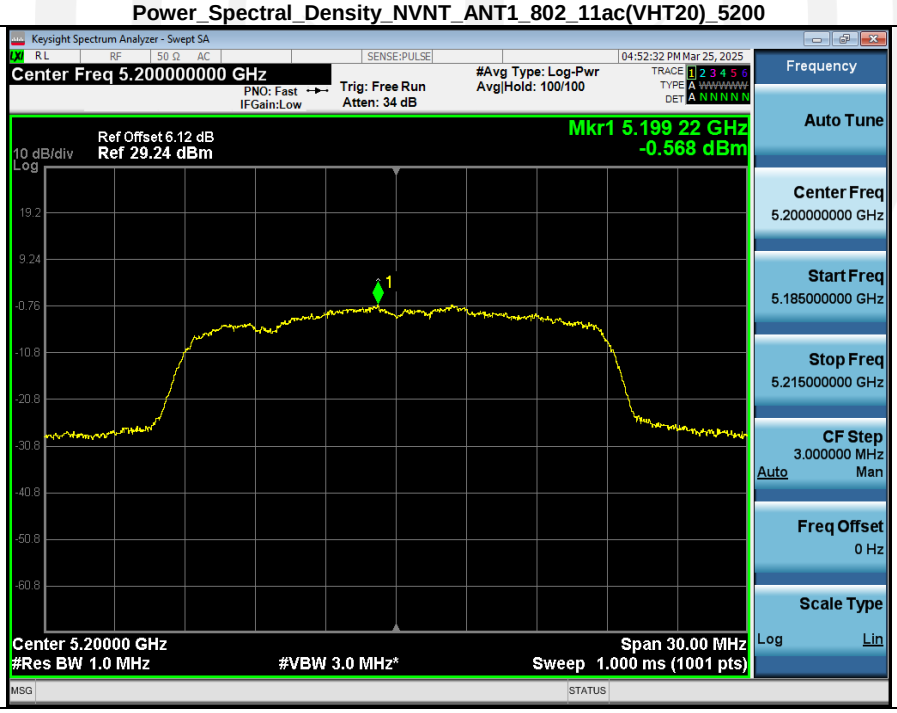
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180

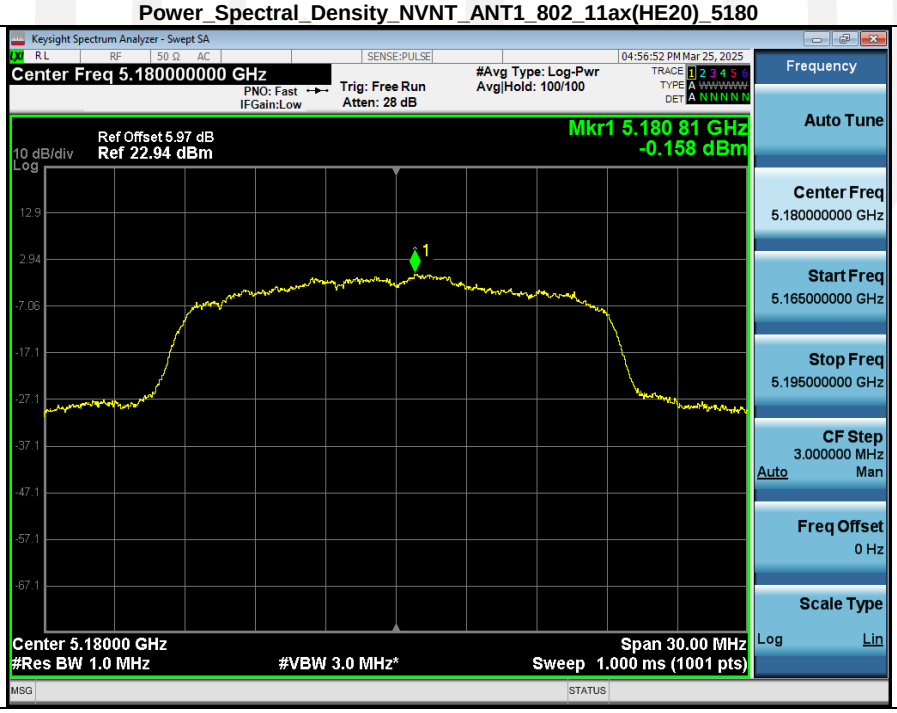


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200

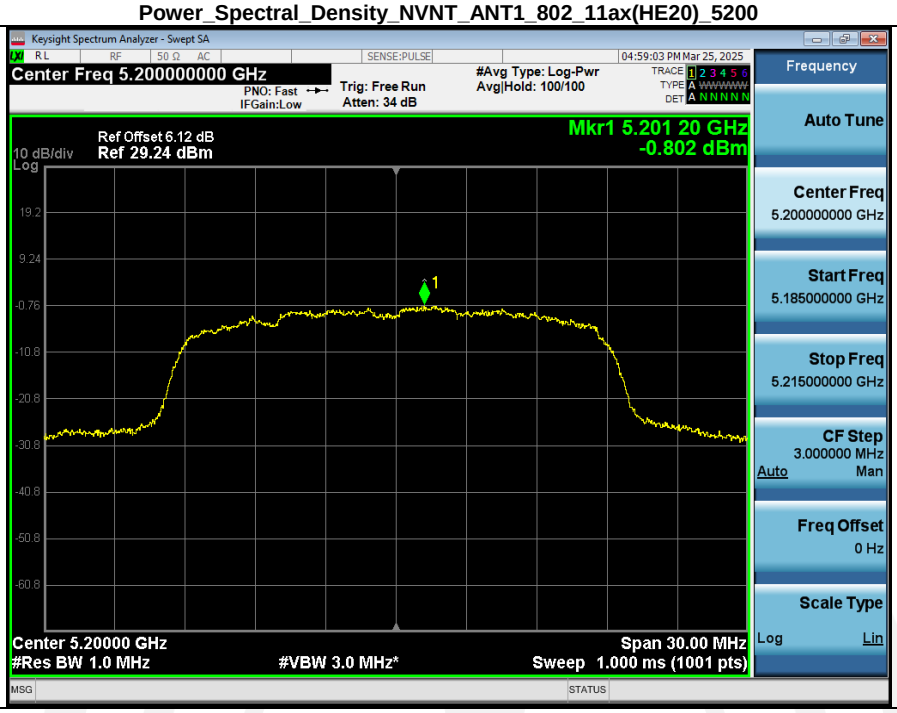


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240

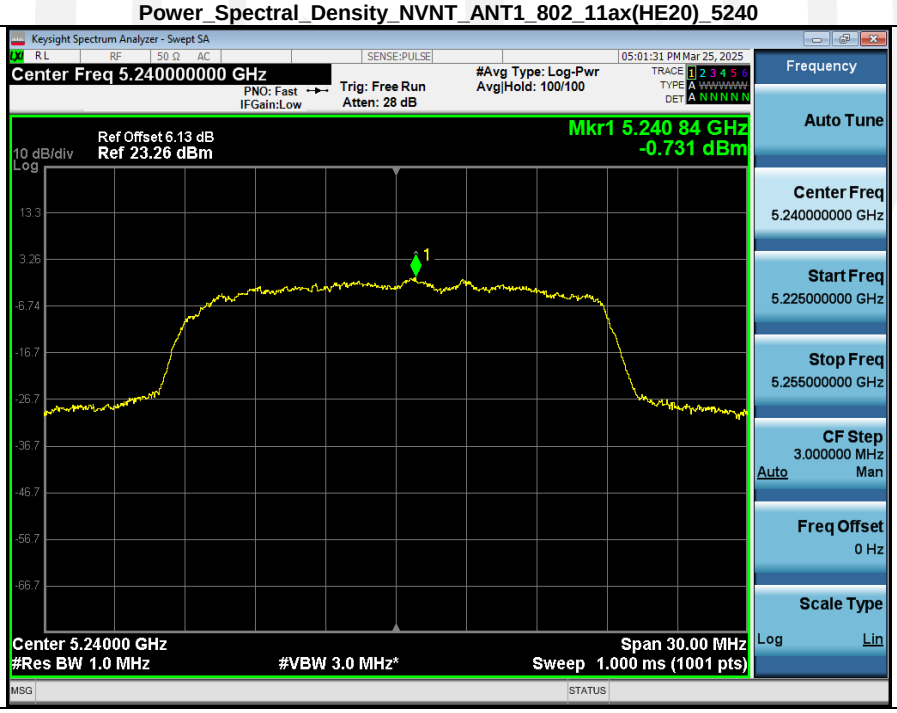
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5180



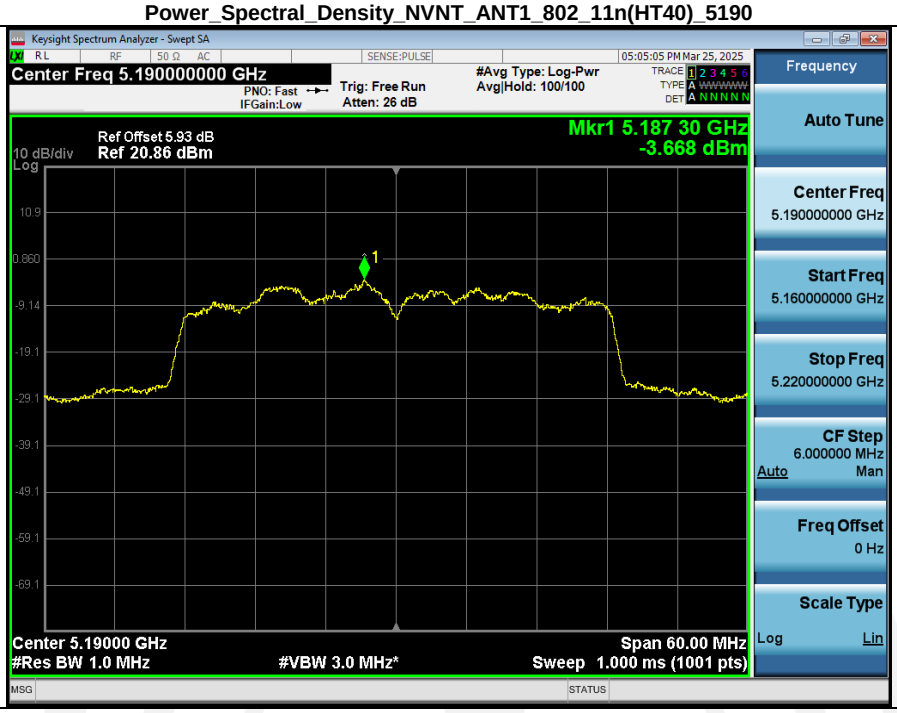
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_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