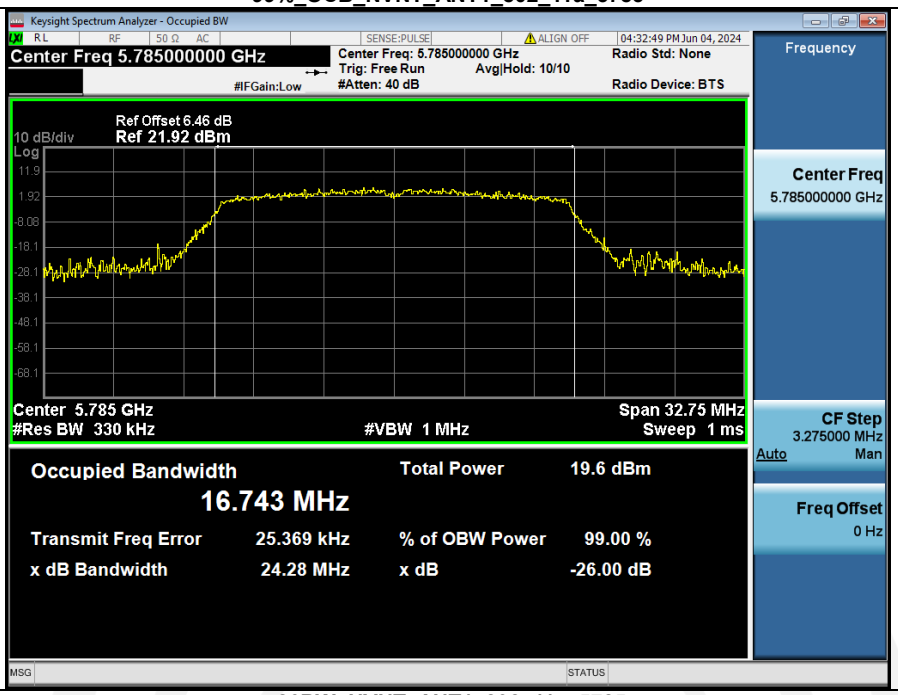
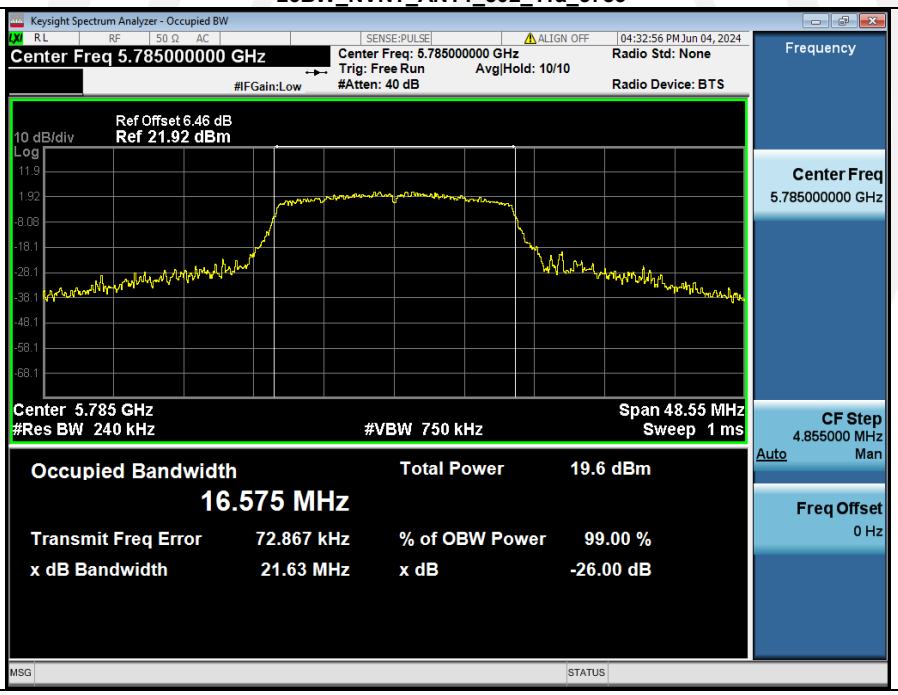
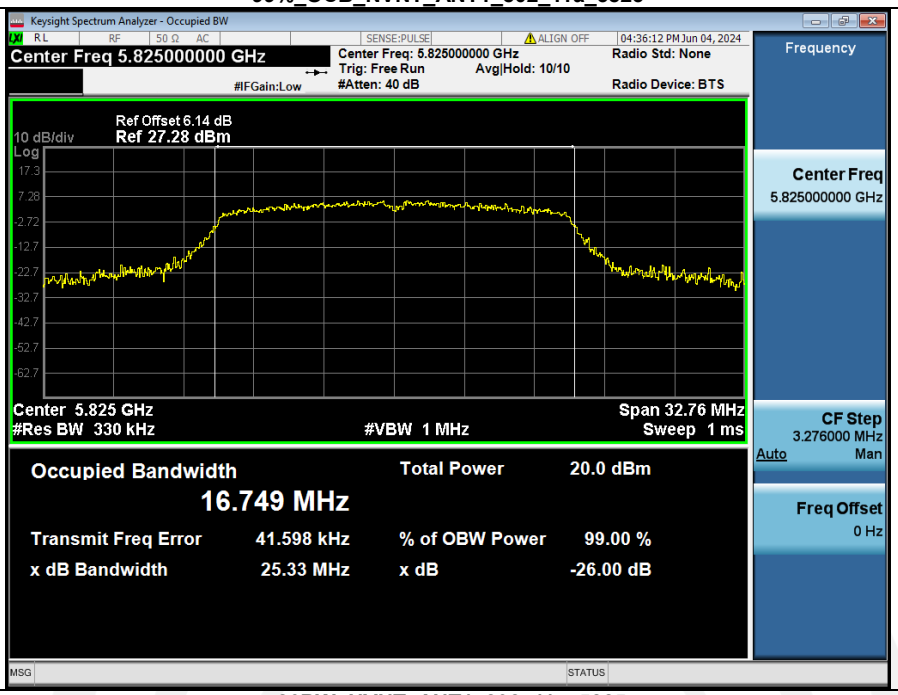
99%_OCB_NVNT_ANT1_802_11a_5785



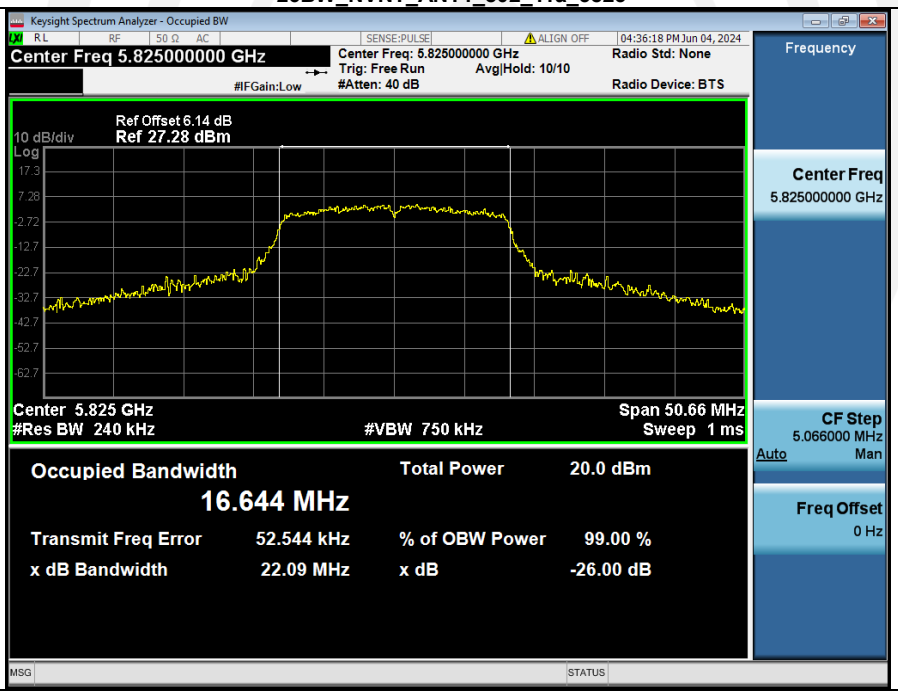
-26BW_NVNT_ANT1_802_11a_5785



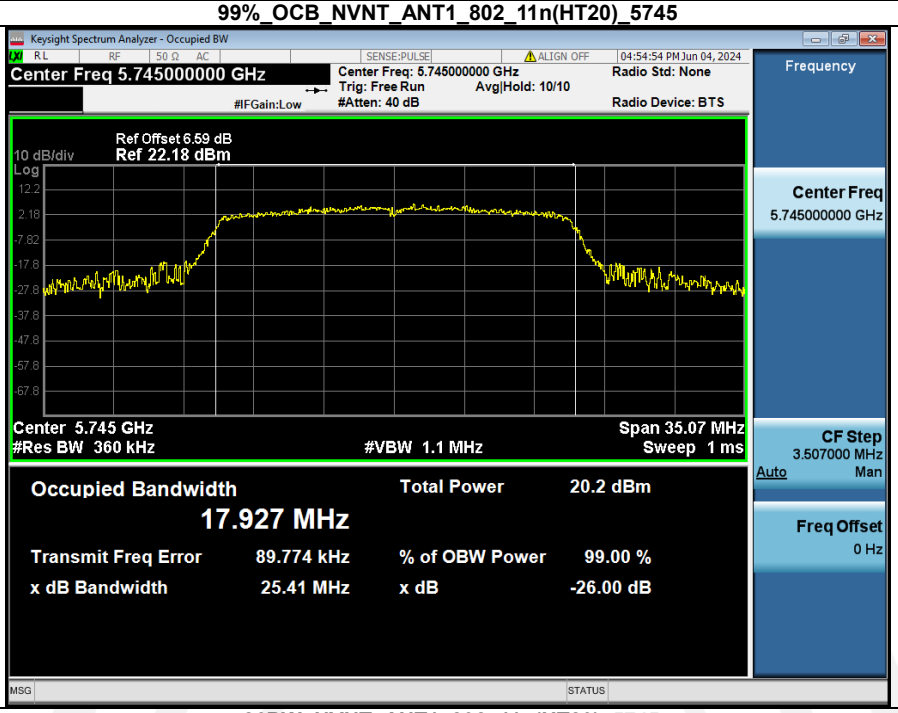
99%_OCB_NVNT_ANT1_802_11a_5825



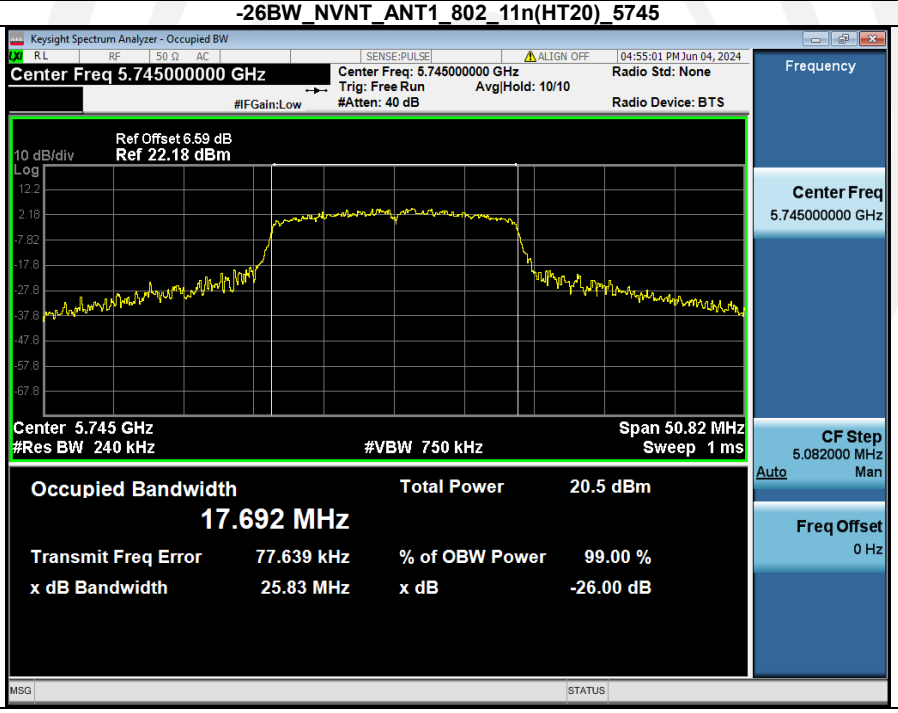
-26BW_NVNT_ANT1_802_11a_5825



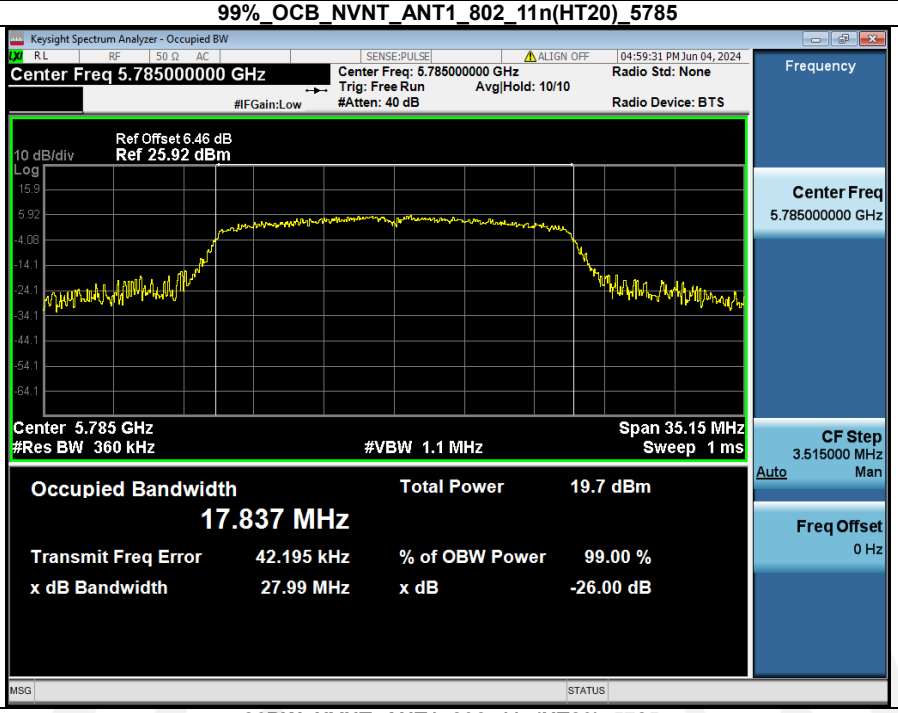
99%_OCB_NVNT_ANT1_802_11n(HT20)_5745



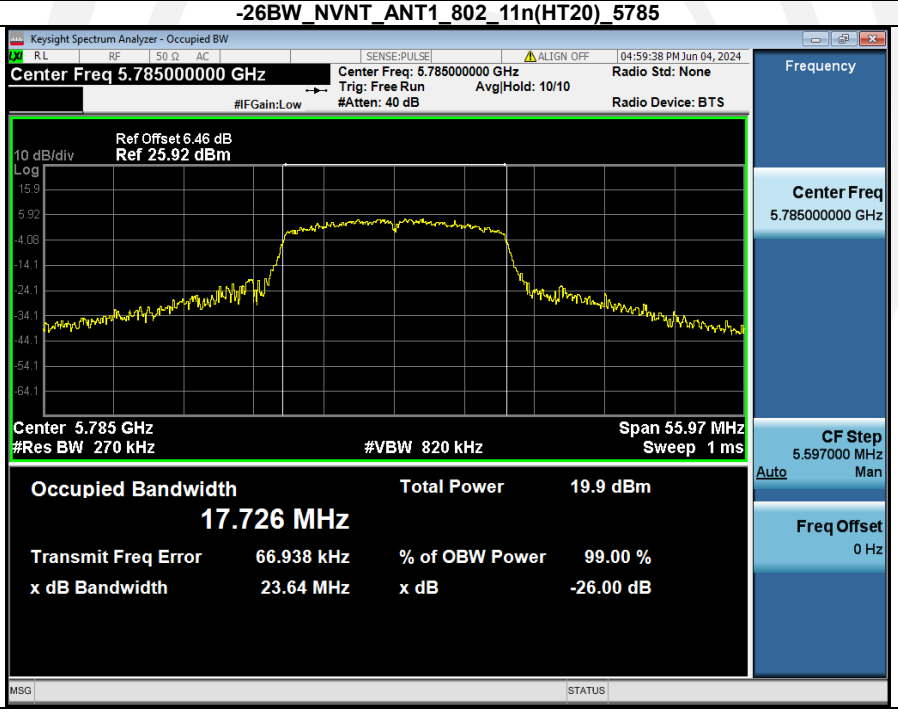
-26BW_NVNT_ANT1_802_11n(HT20)_5745



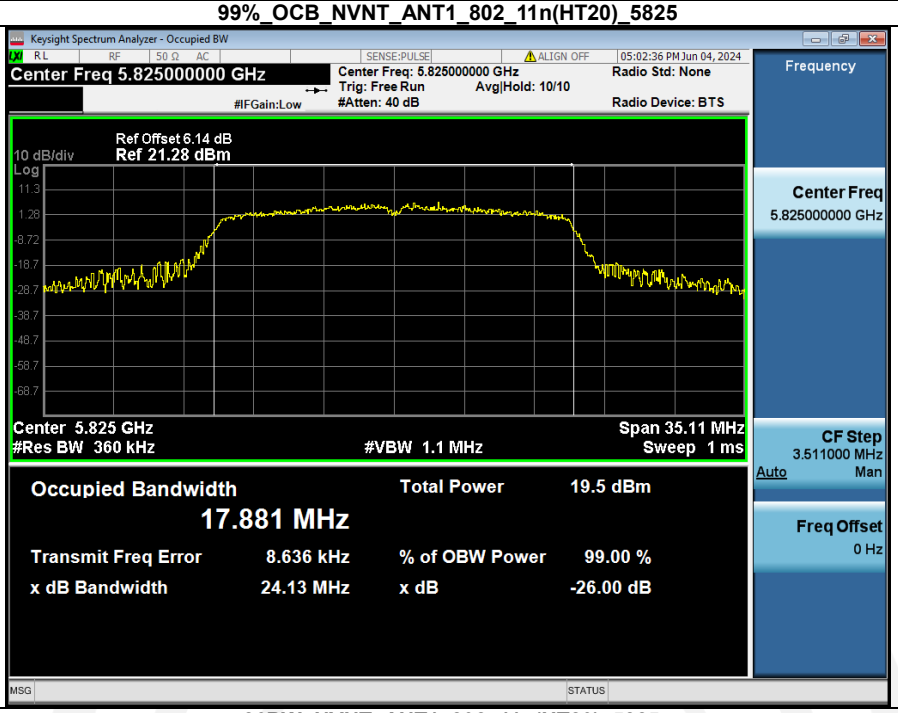
99%_OCB_NVNT_ANT1_802_11n(HT20)_5785



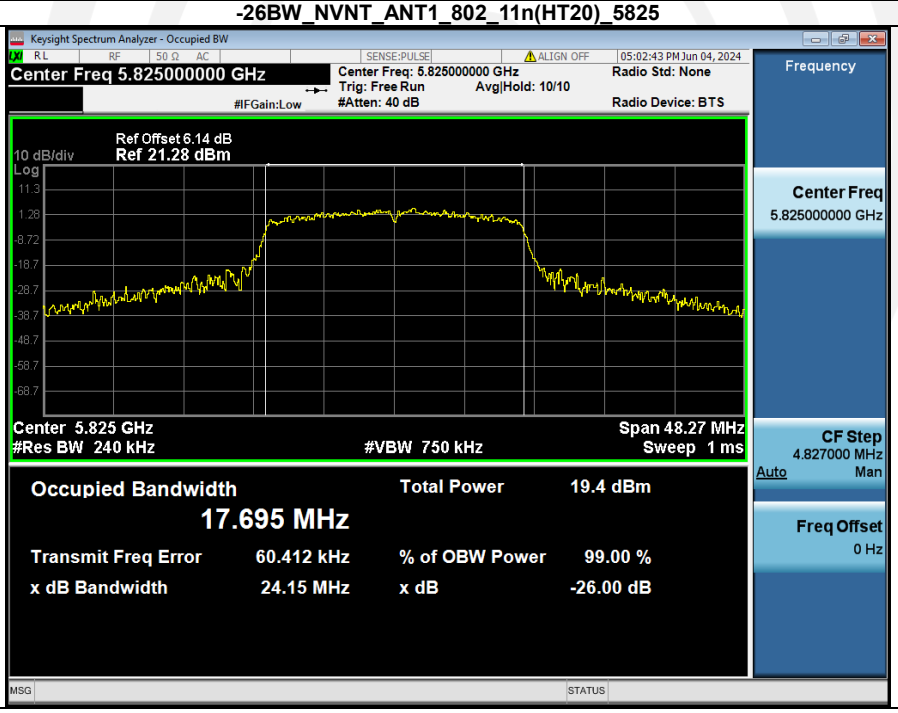
-26BW_NVNT_ANT1_802_11n(HT20)_5785



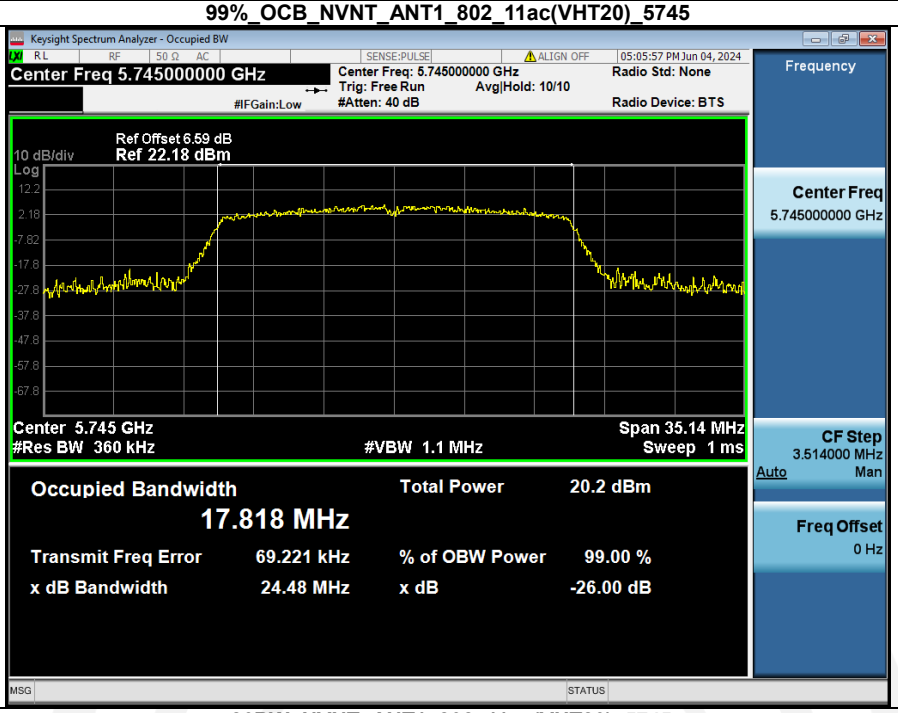
99%_OCB_NVNT_ANT1_802_11n(HT20)_5825



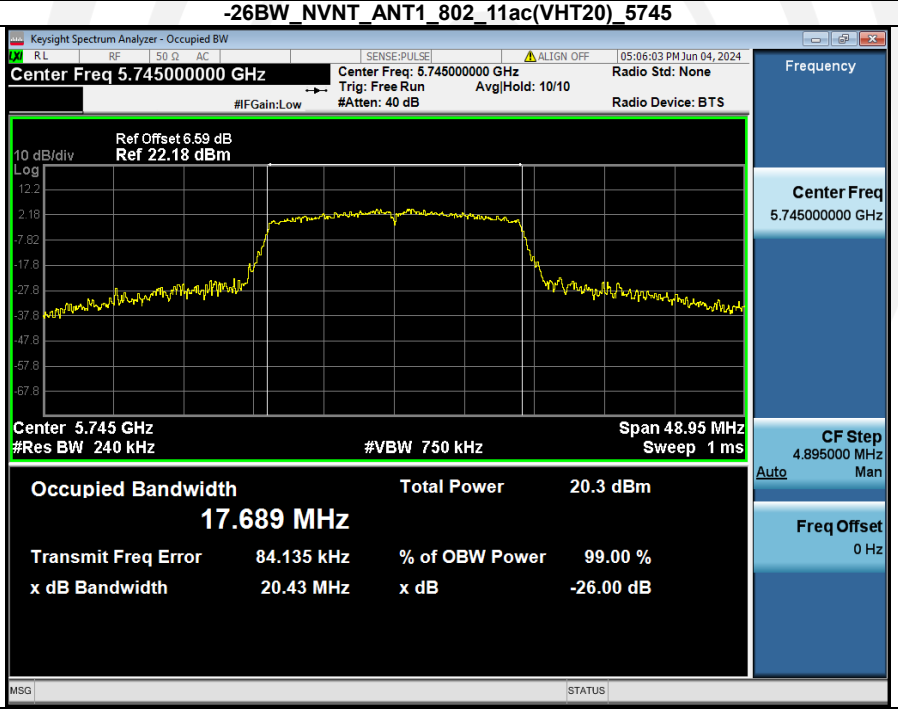
-26BW_NVNT_ANT1_802_11n(HT20)_5825



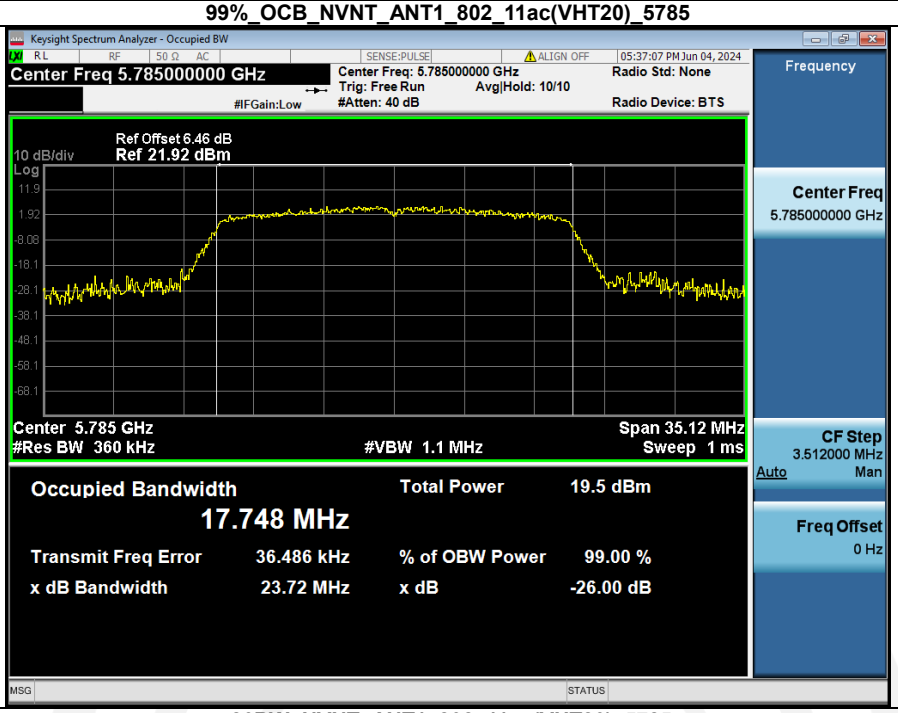
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5745



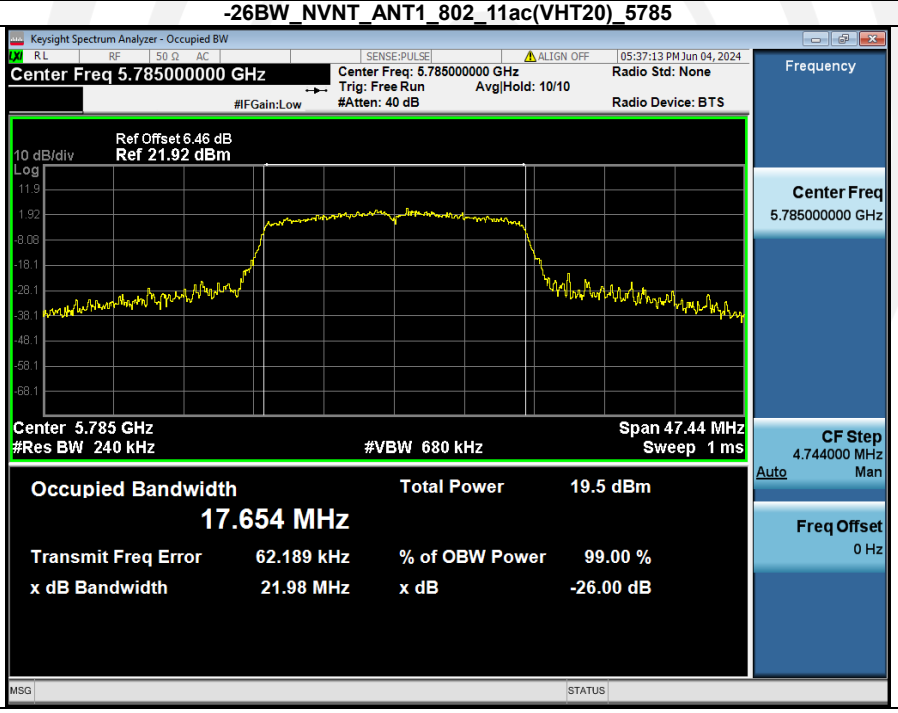
-26BW_NVNT_ANT1_802_11ac(VHT20)_5745



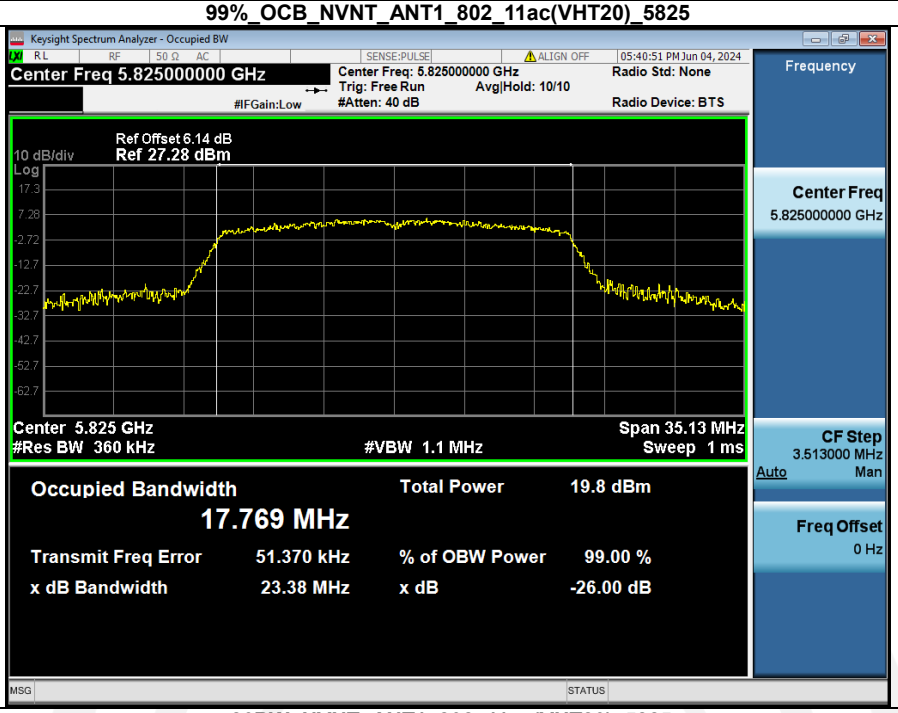
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5785



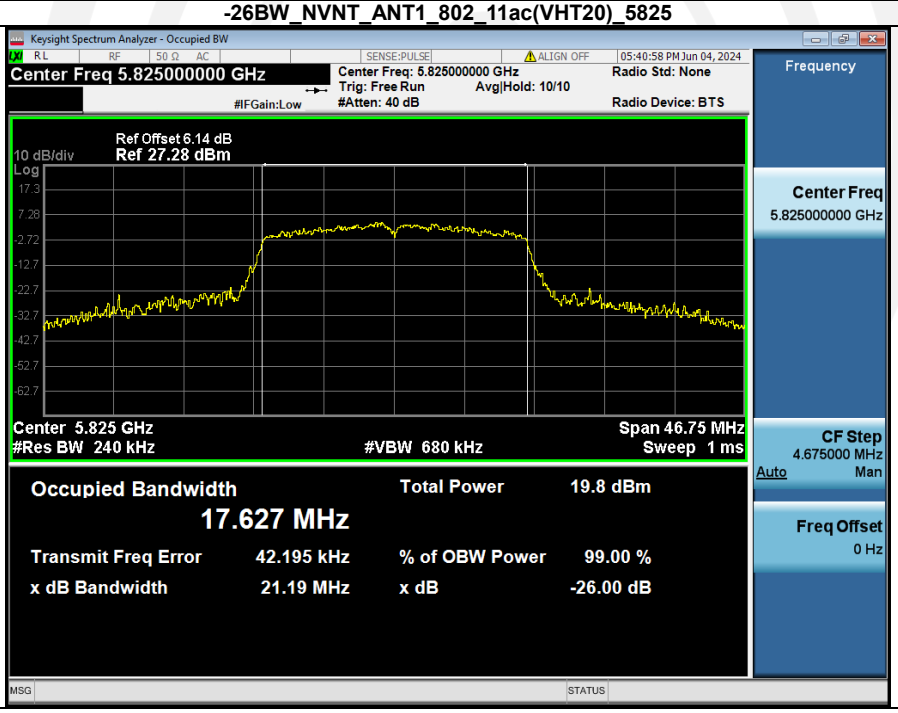
-26BW_NVNT_ANT1_802_11ac(VHT20)_5785



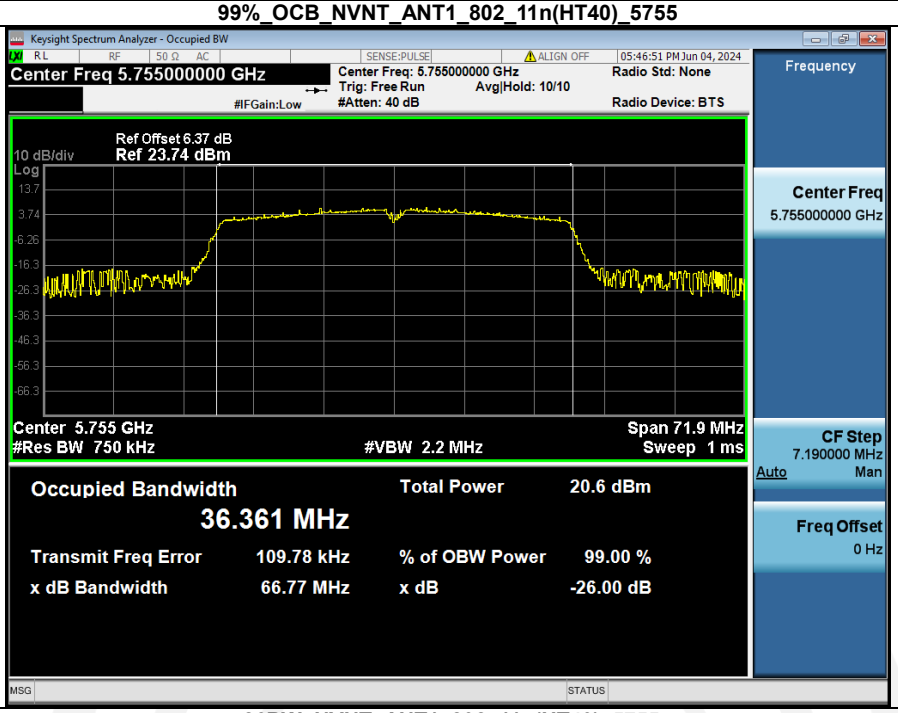
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5825



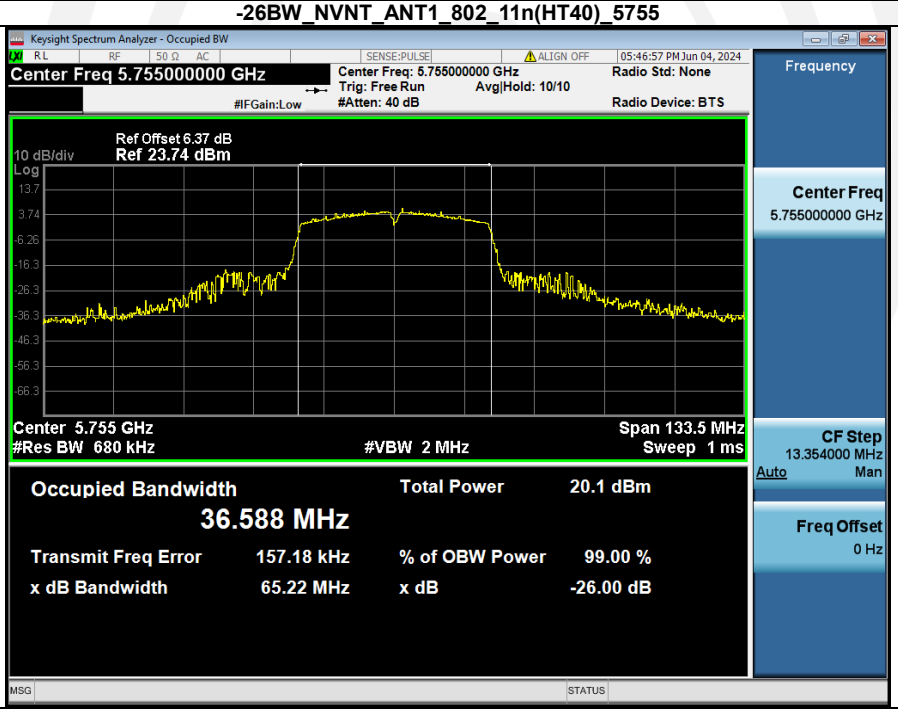
-26BW_NVNT_ANT1_802_11ac(VHT20)_5825



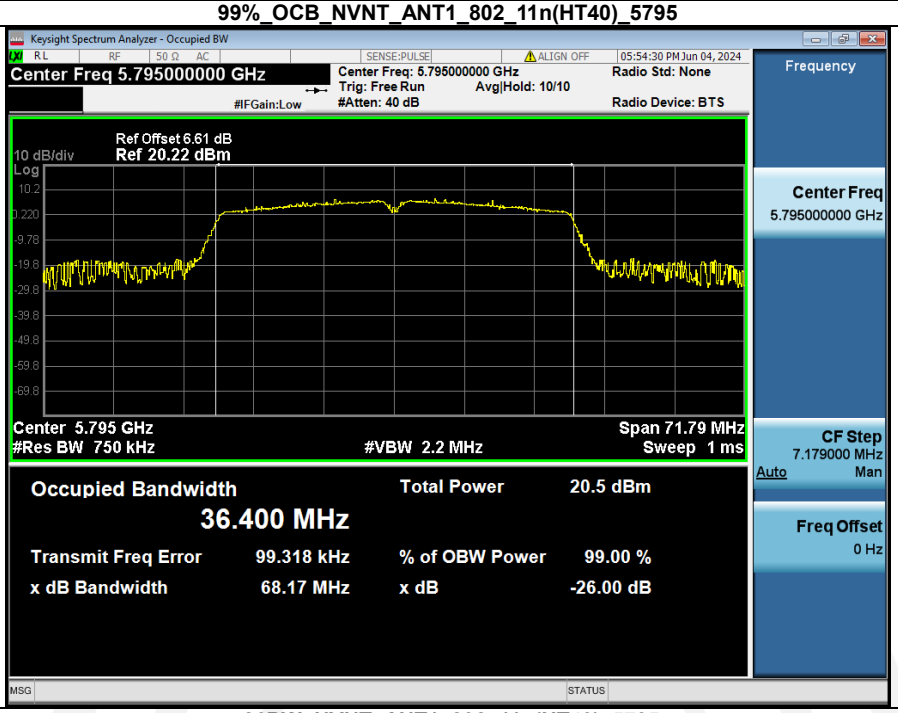
99%_OCB_NVNT_ANT1_802_11n(HT40)_5755



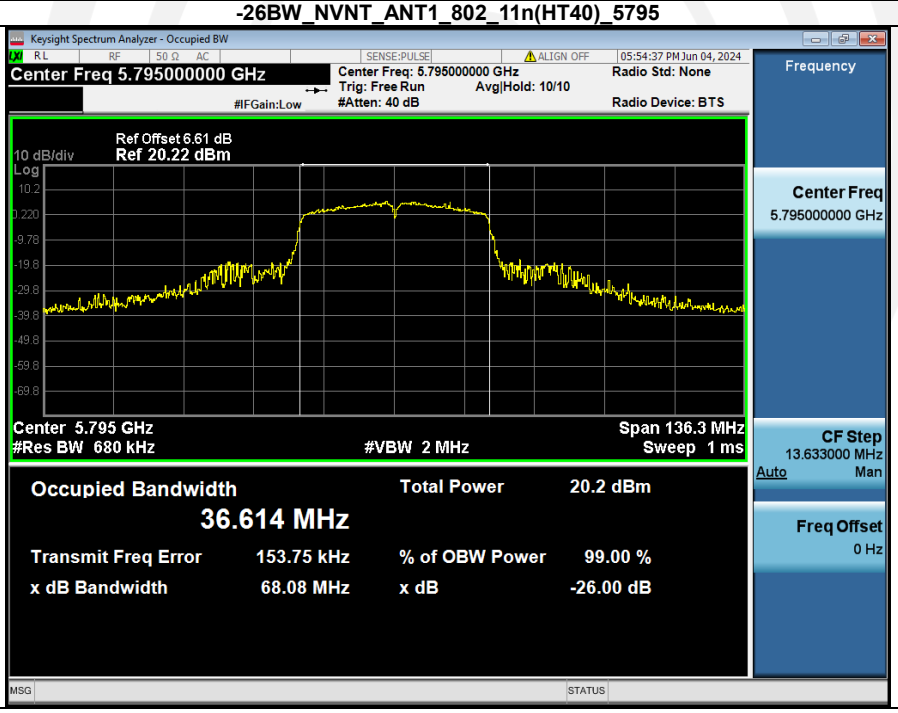
-26BW_NVNT_ANT1_802_11n(HT40)_5755



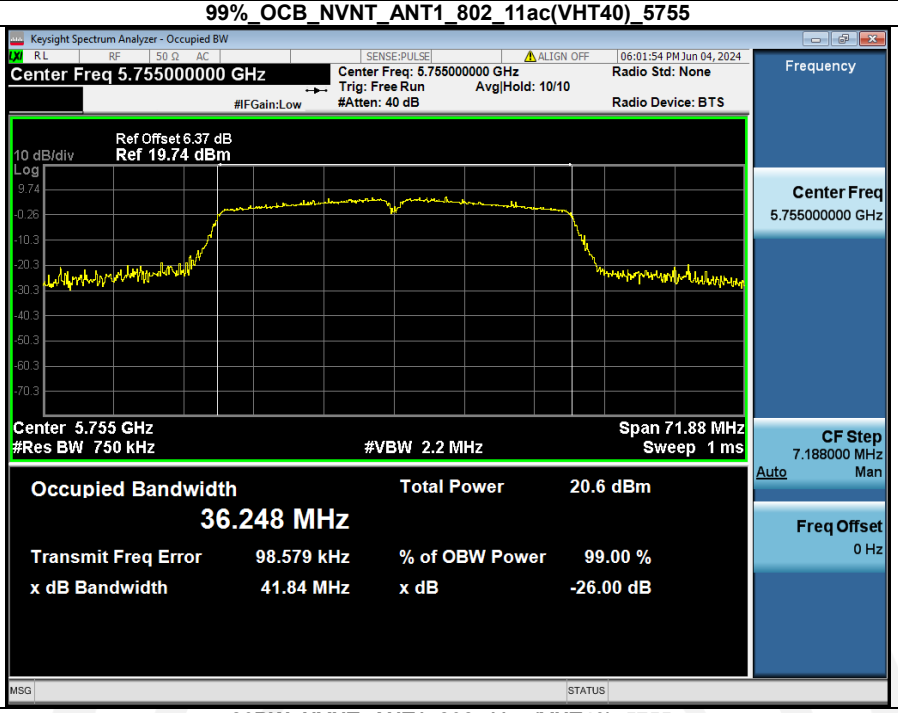
99%_OCB_NVNT_ANT1_802_11n(HT40)_5795



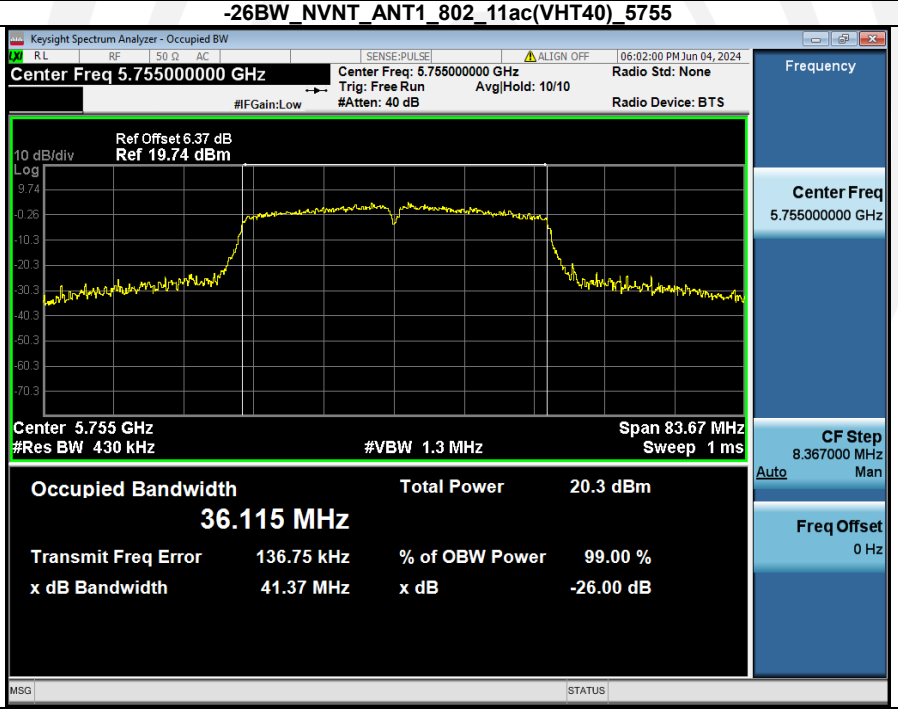
-26BW_NVNT_ANT1_802_11n(HT40)_5795



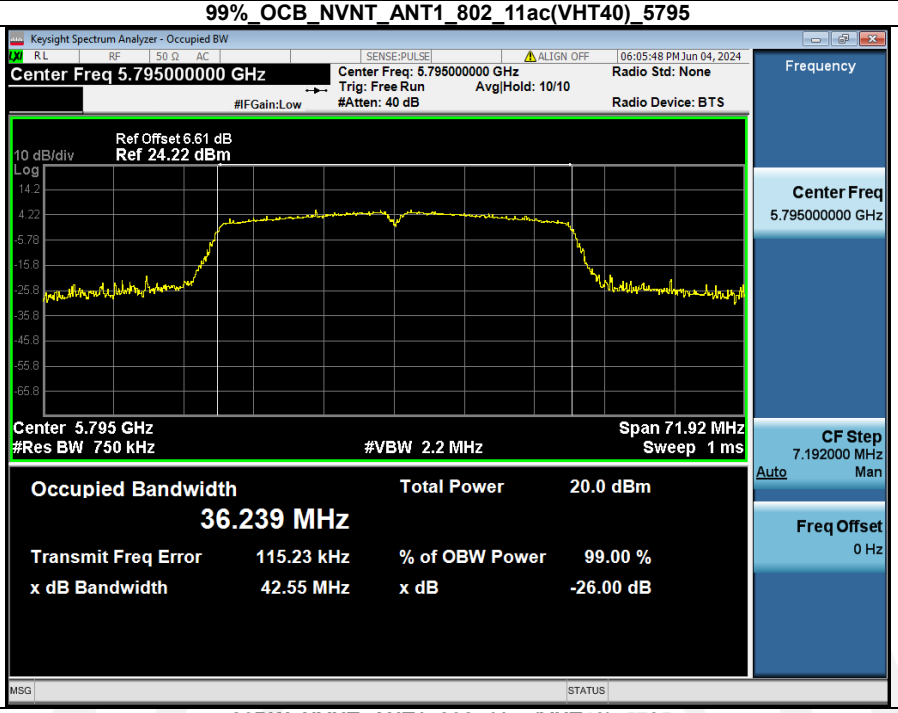
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5755



-26BW_NVNT_ANT1_802_11ac(VHT40)_5755

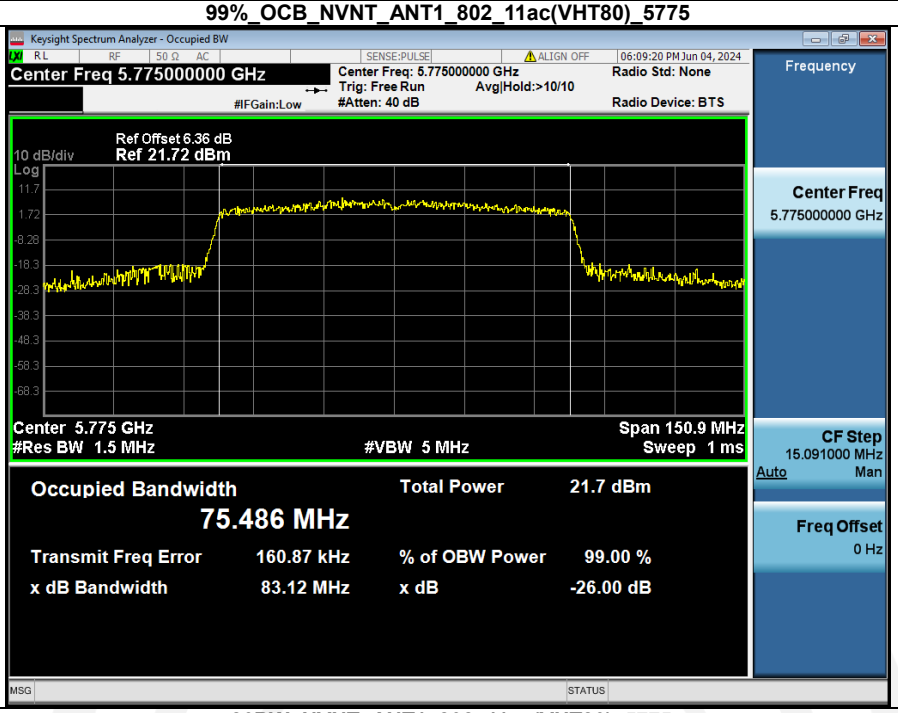


99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5795

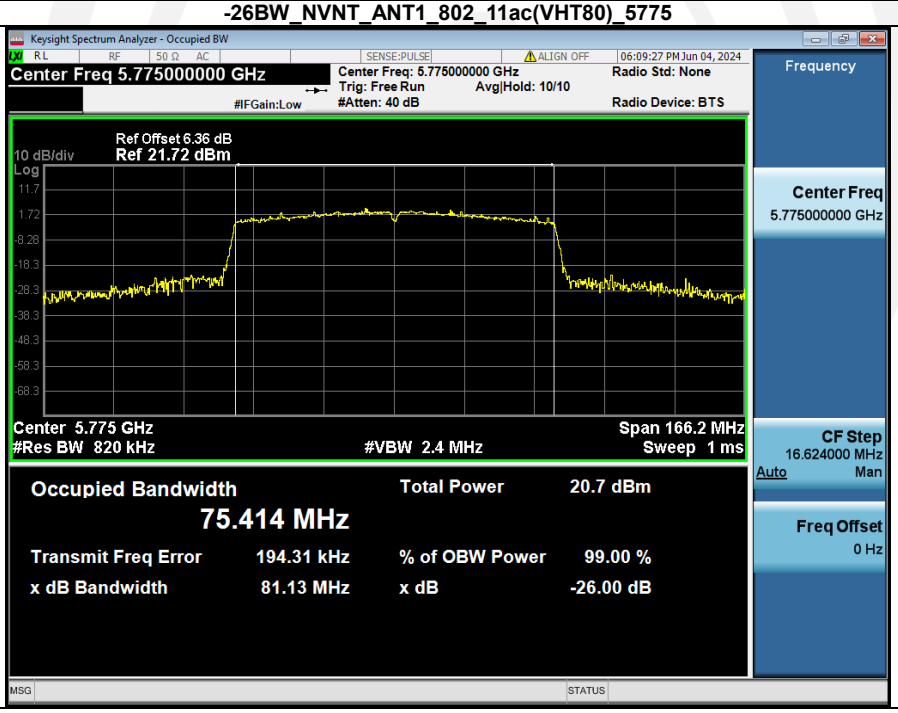


-26BW_NVNT_ANT1_802_11ac(VHT40)_5795

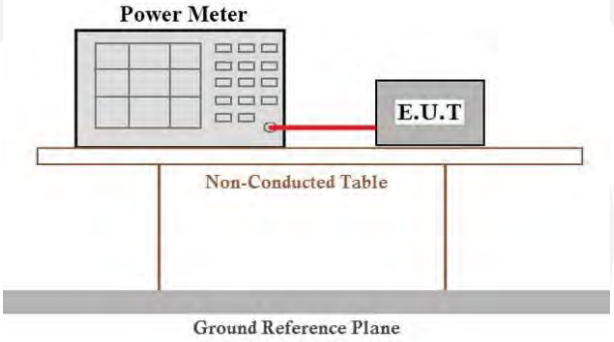
99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5775



-26BW_NVNT_ANT1_802_11ac(VHT80)_5775



4.4 Peak Transmit Power

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407, RSS-247 §6.2</td></tr>
<tr><td>Test Method:</td><td>KDB 789033 D02 General UNII Test Procedures New Rules v02r01</td></tr>
<tr><td>Limit:</td><td>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:
<table>
<tr><th>Section</th><th>Test Item</th><th>Limit</th><th>FrequencyRange (MHz)</th><th>Result</th></tr>
<tr><td>6.2.1.1</td><td rowspan="3">Peak Output Power</td><td>200 mW or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz</td><td>5150-5250</td><td rowspan="3">PASS</td></tr>
<tr><td>6.2.2.1
6.2.3.1</td><td>The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)</td><td>5250-5350
5470-5725</td></tr>
<tr><td>6.2.4.1</td><td>1 watt</td><td>5725-5825</td></tr>
</table></td></tr>
<tr><td>Test setup:</td><td> 
</td></tr>
<tr><td>Test procedure:</td><td>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).</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 3.0 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 2.2 for details</td></tr>
<tr><td>Test results:</td><td>Pass</td></tr>
</table>

Measurement Data:

Band 1 (5150-5250 MHz)

Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
ANT1	802.11a	5180.00	13.62	0.12	13.74	24	23.01	Pass
ANT1	802.11a	5200.00	14.26	0.12	14.38	24	23.01	Pass
ANT1	802.11a	5240.00	14.40	0.12	**14.52**	24	23.01	Pass
ANT1	802.11n(HT20)	5180.00	13.40	0.13	13.53	24	23.01	Pass
ANT1	802.11n(HT20)	5200.00	13.83	0.13	13.96	24	23.01	Pass
ANT1	802.11n(HT20)	5240.00	13.65	0.00	13.65	24	23.01	Pass
ANT1	802.11ac(VHT20)	5180.00	13.57	0.13	13.70	24	23.01	Pass
ANT1	802.11ac(VHT20)	5200.00	13.67	0.13	13.80	24	23.01	Pass
ANT1	802.11ac(VHT20)	5240.00	13.73	0.13	13.86	24	23.01	Pass
ANT1	802.11n(HT40)	5190.00	13.31	0.26	13.57	24	23.01	Pass
ANT1	802.11n(HT40)	5230.00	13.89	0.00	13.89	24	23.01	Pass
ANT1	802.11ac(VHT40)	5190.00	13.28	0.26	13.54	24	23.01	Pass
ANT1	802.11ac(VHT40)	5230.00	13.89	0.26	14.15	24	23.01	Pass
ANT1	802.11ac(VHT80)	5210.00	13.55	0.51	14.06	24	23.01	Pass

Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5180.00	97.18	0.12
ANT1	802.11a	5200.00	97.22	0.12
ANT1	802.11a	5240.00	97.22	0.12
ANT1	802.11n(HT20)	5180.00	97.01	0.13
ANT1	802.11n(HT20)	5200.00	97.01	0.13
ANT1	802.11n(HT20)	5240.00	98.50	0.00
ANT1	802.11ac(VHT20)	5180.00	97.01	0.13
ANT1	802.11ac(VHT20)	5200.00	97.06	0.13
ANT1	802.11ac(VHT20)	5240.00	97.01	0.13
ANT1	802.11n(HT40)	5190.00	94.12	0.26
ANT1	802.11n(HT40)	5230.00	98.06	0.00
ANT1	802.11ac(VHT40)	5190.00	94.12	0.26
ANT1	802.11ac(VHT40)	5230.00	94.12	0.26
ANT1	802.11ac(VHT80)	5210.00	88.89	0.51

Band 2 (5260-5320 MHz):

Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
ANT1	802.11a	5260.00	13.26	0.12	13.38	24	Pass
ANT1	802.11a	5300.00	12.59	0.12	12.71	24	Pass
ANT1	802.11a	5320.00	12.79	0.12	12.91	24	Pass
ANT1	802.11n(HT20)	5260.00	13.05	0.13	13.18	24	Pass
ANT1	802.11n(HT20)	5300.00	12.86	0.13	12.99	24	Pass
ANT1	802.11n(HT20)	5320.00	12.85	0.13	12.98	24	Pass
ANT1	802.11ac(VHT20)	5260.00	13.00	0.13	13.13	24	Pass
ANT1	802.11ac(VHT20)	5300.00	12.83	0.13	12.96	24	Pass
ANT1	802.11ac(VHT20)	5320.00	12.26	0.13	12.39	24	Pass
ANT1	802.11n(HT40)	5270.00	12.76	0.26	13.02	24	Pass
ANT1	802.11n(HT40)	5310.00	12.47	0.00	12.47	24	Pass
ANT1	802.11ac(VHT40)	5270.00	13.05	0.13	13.18	24	Pass
ANT1	802.11ac(VHT40)	5310.00	13.03	0.13	13.16	24	Pass
ANT1	802.11ac(VHT80)	5290.00	12.91	0.51	**13.42**	24	Pass

Antenna	Modulation	Frequency(MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5260.00	97.18	0.12
ANT1	802.11a	5300.00	97.18	0.12
ANT1	802.11a	5320.00	97.18	0.12
ANT1	802.11n(HT20)	5260.00	97.01	0.13
ANT1	802.11n(HT20)	5300.00	97.01	0.13
ANT1	802.11n(HT20)	5320.00	97.01	0.13
ANT1	802.11ac(VHT20)	5260.00	97.01	0.13
ANT1	802.11ac(VHT20)	5300.00	97.01	0.13
ANT1	802.11ac(VHT20)	5320.00	97.01	0.13
ANT1	802.11n(HT40)	5270.00	94.12	0.26
ANT1	802.11n(HT40)	5310.00	98.06	0.00
ANT1	802.11ac(VHT40)	5270.00	97.10	0.13
ANT1	802.11ac(VHT40)	5310.00	97.10	0.13
ANT1	802.11ac(VHT80)	5290.00	88.89	0.51

Band 3 (5500-5570 MHz):

Antenna	Modulation	Frequency(MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
ANT1	802.11a	5500	12.20	0.00	12.20	24	Pass
ANT1	802.11a	5600	12.10	0.12	12.22	24	Pass
ANT1	802.11a	5700.00	12.95	0.12	13.07	24	Pass
ANT1	802.11n(HT20)	5500	12.40	0.13	12.53	24	Pass
ANT1	802.11n(HT20)	5600	11.98	0.13	12.11	24	Pass
ANT1	802.11n(HT20)	5700.00	12.82	0.13	12.95	24	Pass
ANT1	802.11ac(VHT20)	5500	12.47	0.13	12.60	24	Pass
ANT1	802.11ac(VHT20)	5600	11.68	0.13	11.81	24	Pass
ANT1	802.11ac(VHT20)	5700.00	12.82	0.13	12.95	24	Pass
ANT1	802.11n(HT40)	5510	12.33	0.00	12.33	24	Pass
ANT1	802.11n(HT40)	5590	11.51	0.26	11.77	24	Pass
ANT1	802.11n(HT40)	5670	13.18	0.26	**13.44**	24	Pass
ANT1	802.11ac(VHT40)	5510	12.34	0.26	12.60	24	Pass
ANT1	802.11ac(VHT40)	5590	11.77	0.26	12.03	24	Pass
ANT1	802.11ac(VHT40)	5670	13.17	0.26	13.43	24	Pass
ANT1	802.11ac(VHT80)	5530	11.69	0.51	12.20	24	Pass
ANT1	802.11ac(VHT80)	5610	11.50	0.51	12.01	24	Pass

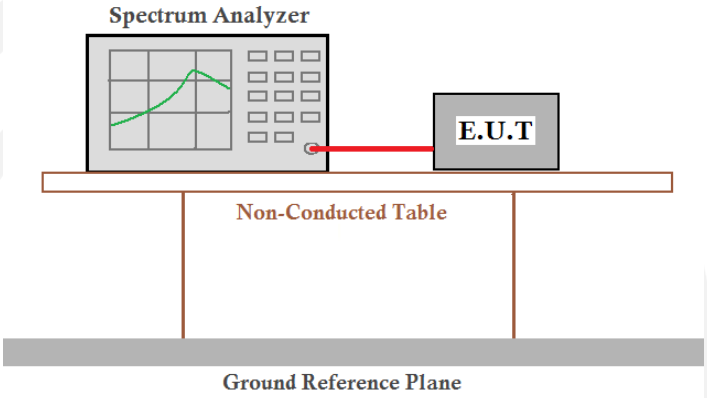
Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5500	98.60	0.00
ANT1	802.11a	5600	97.18	0.12
ANT1	802.11a	5700.00	97.18	0.12
ANT1	802.11n(HT20)	5500	97.01	0.13
ANT1	802.11n(HT20)	5600	97.01	0.13
ANT1	802.11n(HT20)	5700.00	97.01	0.13
ANT1	802.11ac(VHT20)	5500	97.01	0.13
ANT1	802.11ac(VHT20)	5600	97.01	0.13
ANT1	802.11ac(VHT20)	5700.00	97.01	0.13
ANT1	802.11n(HT40)	5510	98.06	0.00
ANT1	802.11n(HT40)	5590	94.12	0.26
ANT1	802.11n(HT40)	5670	94.12	0.26
ANT1	802.11ac(VHT40)	5510	94.12	0.26
ANT1	802.11ac(VHT40)	5590	94.12	0.26
ANT1	802.11ac(VHT40)	5670	94.12	0.26
ANT1	802.11ac(VHT80)	5530	88.89	0.51
ANT1	802.11ac(VHT80)	5610	88.89	0.51

Band 4 (5725 – 5850 MHz)

Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
ANT1	802.11a	5745.00	14.33	0.12	**14.45**	30	Pass
ANT1	802.11a	5785.00	13.01	0.00	13.01	30	Pass
ANT1	802.11a	5825.00	13.41	0.12	13.53	30	Pass
ANT1	802.11n(HT20)	5745.00	13.86	0.13	13.99	30	Pass
ANT1	802.11n(HT20)	5785.00	13.19	0.13	13.32	30	Pass
ANT1	802.11n(HT20)	5825.00	12.90	0.13	13.03	30	Pass
ANT1	802.11ac(VHT20)	5745.00	13.84	0.00	13.84	30	Pass
ANT1	802.11ac(VHT20)	5785.00	12.84	0.13	12.97	30	Pass
ANT1	802.11ac(VHT20)	5825.00	13.14	0.13	13.27	30	Pass
ANT1	802.11n(HT40)	5755.00	13.46	0.26	13.72	30	Pass
ANT1	802.11n(HT40)	5795.00	13.33	0.26	13.59	30	Pass
ANT1	802.11ac(VHT40)	5755.00	13.47	0.26	13.73	30	Pass
ANT1	802.11ac(VHT40)	5795.00	12.87	0.26	13.13	30	Pass
ANT1	802.11ac(VHT80)	5775.00	12.75	0.51	13.26	30	Pass

Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5745.00	97.18	0.12
ANT1	802.11a	5785.00	98.60	0.00
ANT1	802.11a	5825.00	97.18	0.12
ANT1	802.11n(HT20)	5745.00	97.01	0.13
ANT1	802.11n(HT20)	5785.00	97.01	0.13
ANT1	802.11n(HT20)	5825.00	97.01	0.13
ANT1	802.11ac(VHT20)	5745.00	98.52	0.00
ANT1	802.11ac(VHT20)	5785.00	97.01	0.13
ANT1	802.11ac(VHT20)	5825.00	97.01	0.13
ANT1	802.11n(HT40)	5755.00	94.12	0.26
ANT1	802.11n(HT40)	5795.00	94.12	0.26
ANT1	802.11ac(VHT40)	5755.00	94.12	0.26
ANT1	802.11ac(VHT40)	5795.00	94.29	0.26
ANT1	802.11ac(VHT80)	5775.00	88.89	0.51

4.5 Power Spectral Density

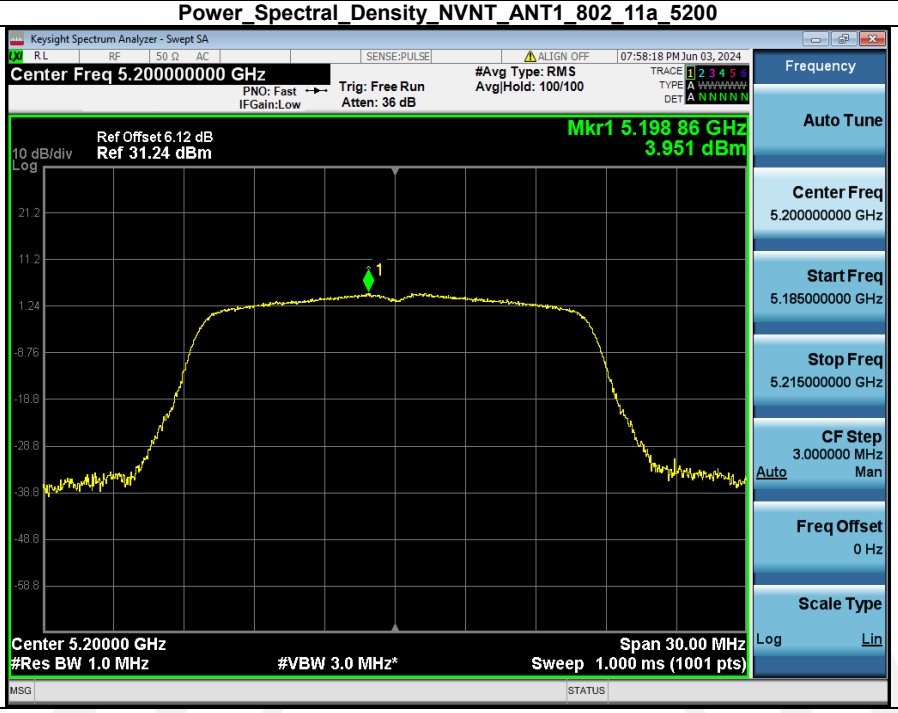
Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	FCC: 1.≤11.00dBm/MHz for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2.≤30.00dBm/500KHz for 5725MHz-5850MHz IC: 1.For the 5.15-5.25 GHz, The e.i.r.p. spectral 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

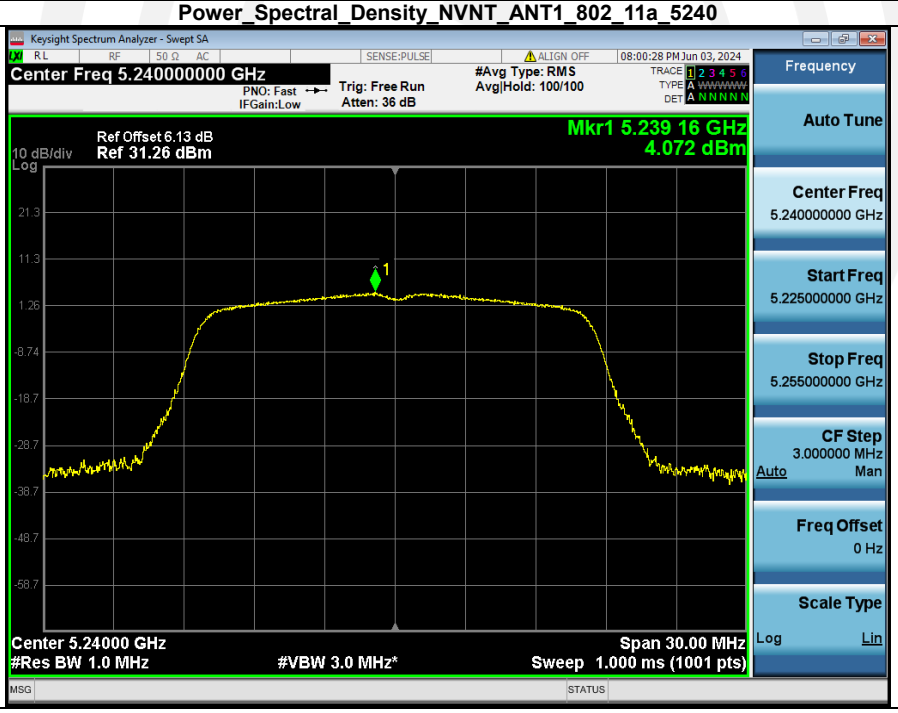
Measurement Data

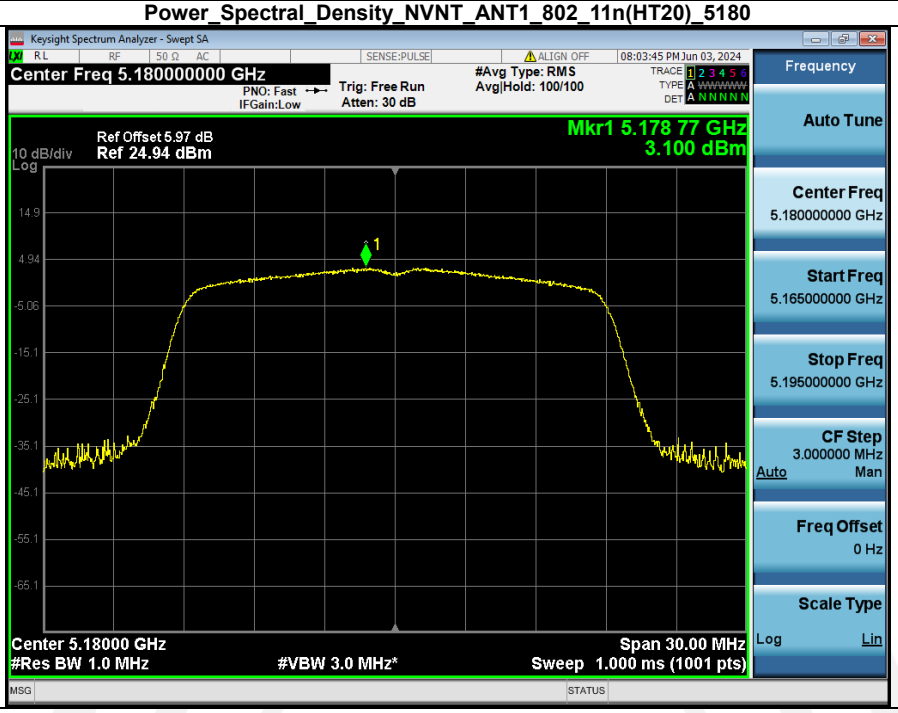
Band 1 (5150-5250 MHz)

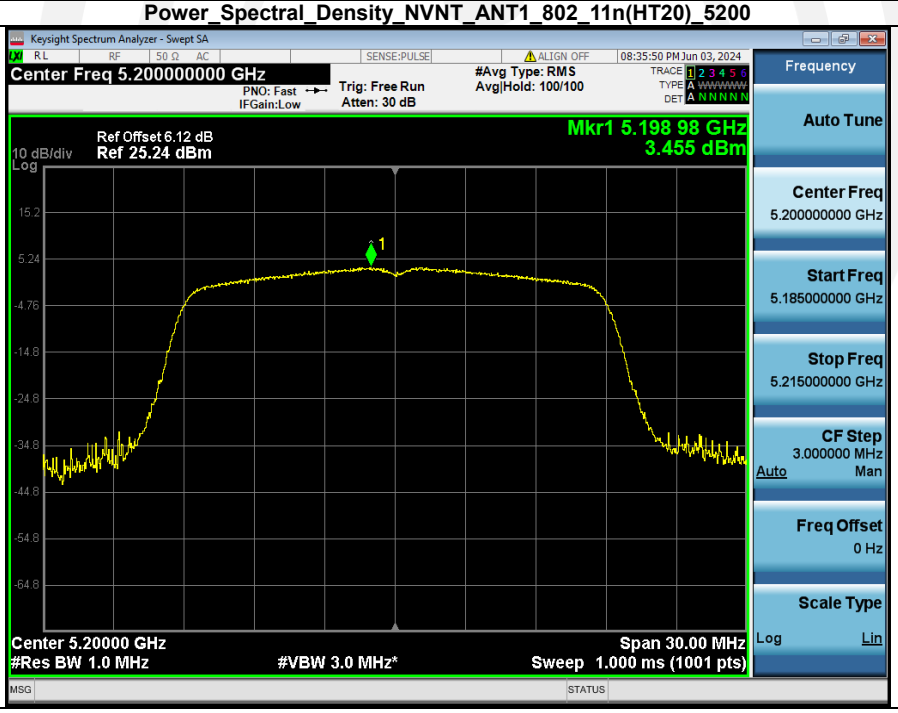
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	3.25	0.12	3.37	11	Pass
NVNT	ANT1	802.11a	5200.00	3.95	0.12	4.07	11	Pass
NVNT	ANT1	802.11a	5240.00	4.07	0.12	4.19	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	3.10	0.13	3.23	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	3.46	0.13	3.58	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	3.22	0.00	3.22	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	3.12	0.13	3.25	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	3.24	0.13	3.37	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	3.29	0.13	3.42	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-0.02	0.26	0.24	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	0.43	0.00	0.43	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-0.12	0.26	0.14	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	0.47	0.26	0.73	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-2.95	0.51	-2.44	11	Pass

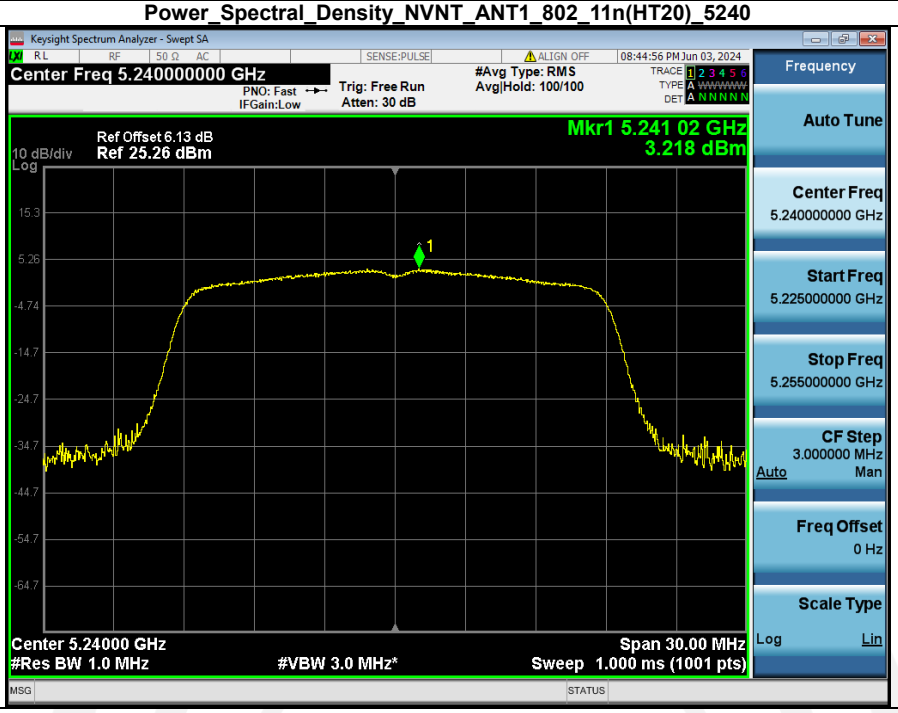
Power_Spectral_Density_NVNT_ANT1_802_11a_5180

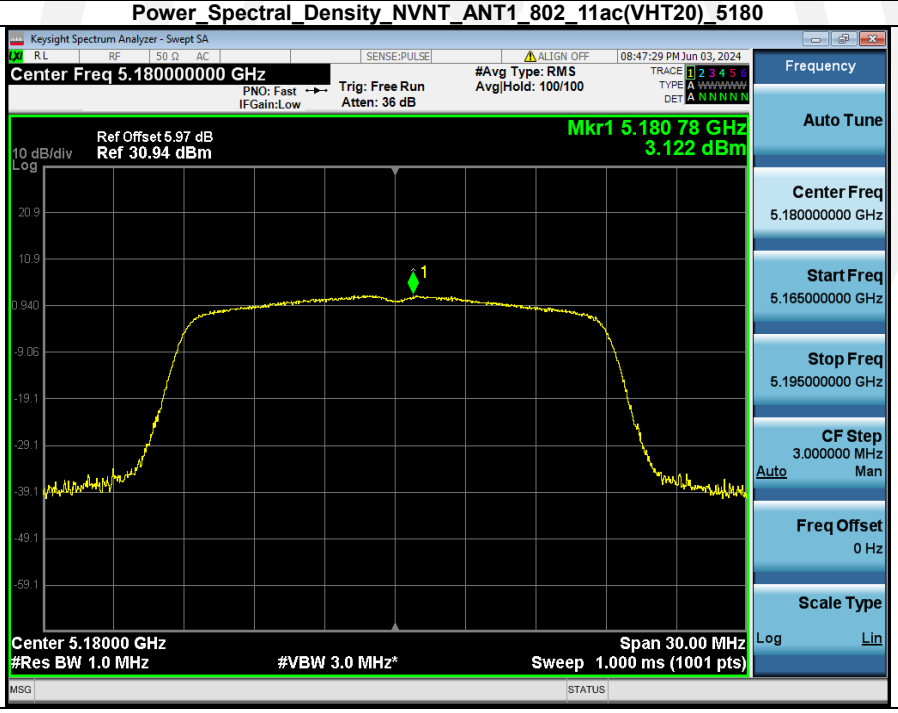
Power_Spectral_Density_NVNT_ANT1_802_11a_5200


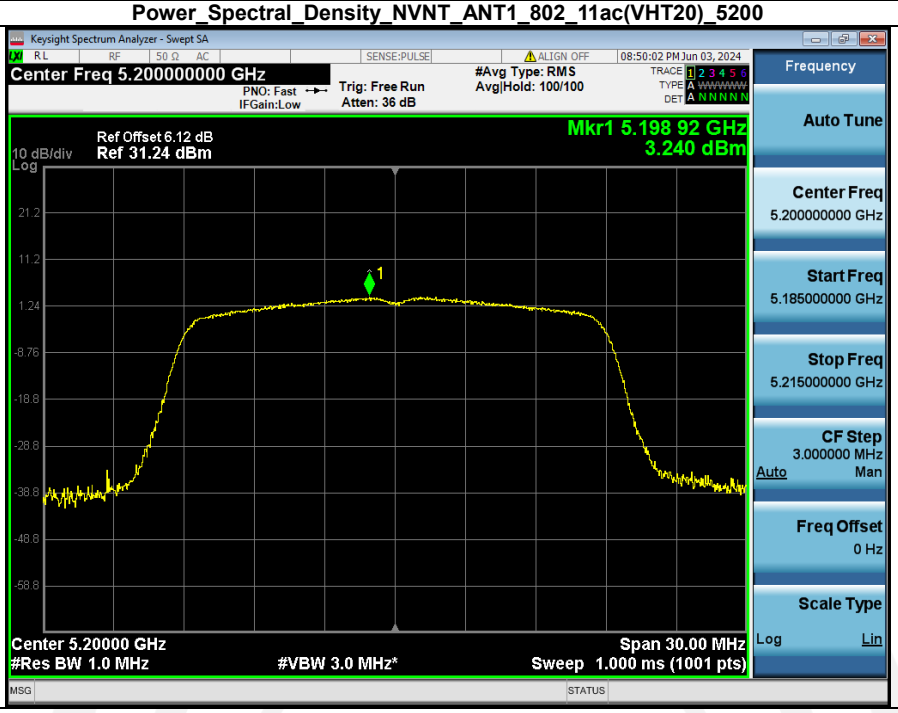
Power_Spectral_Density_NVNT_ANT1_802_11a_5240


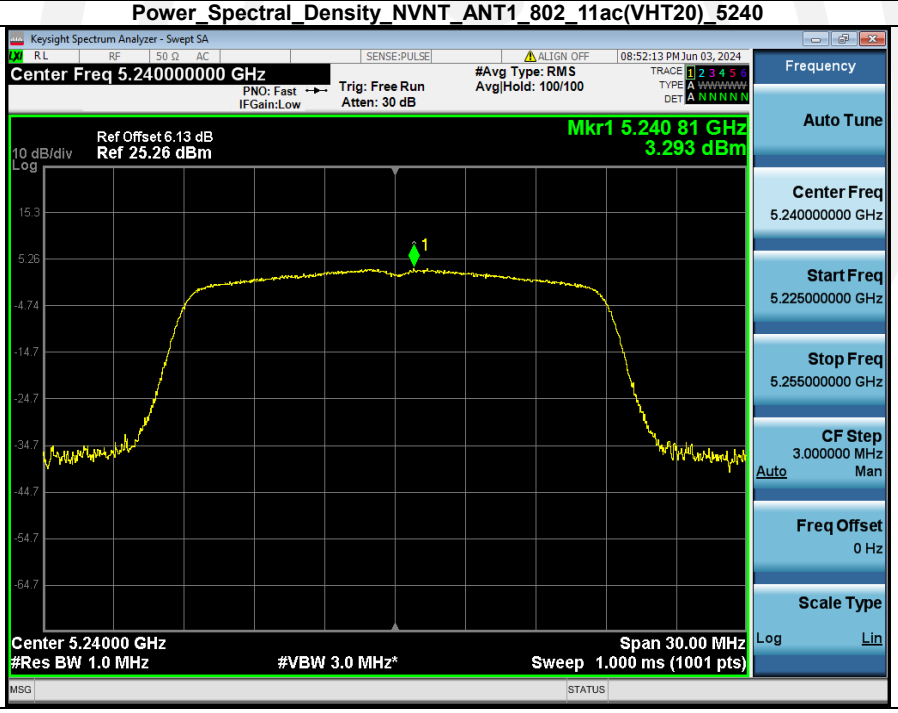
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180


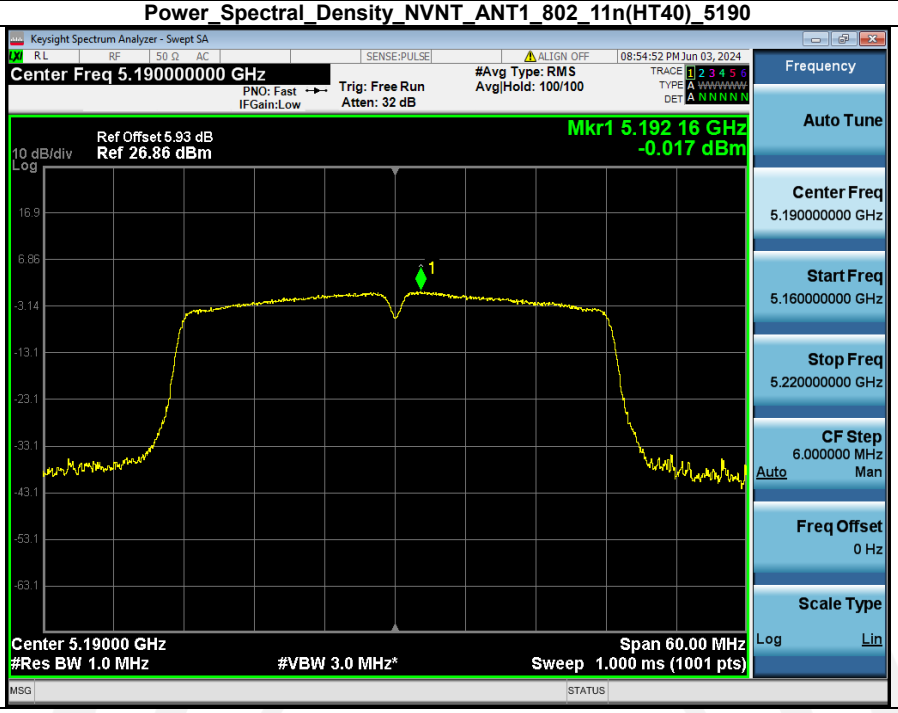
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200


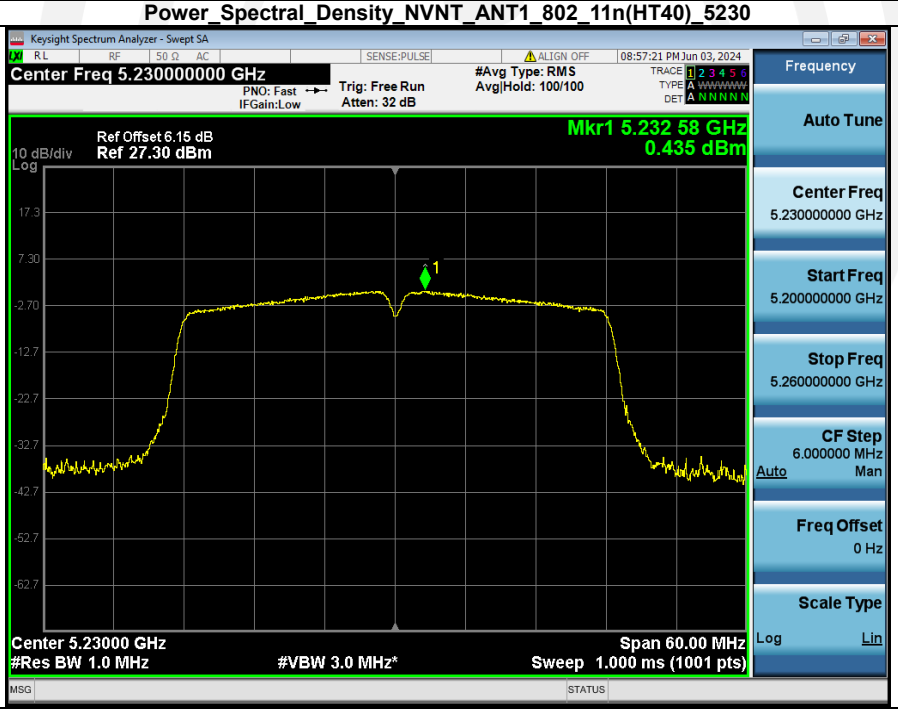
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240


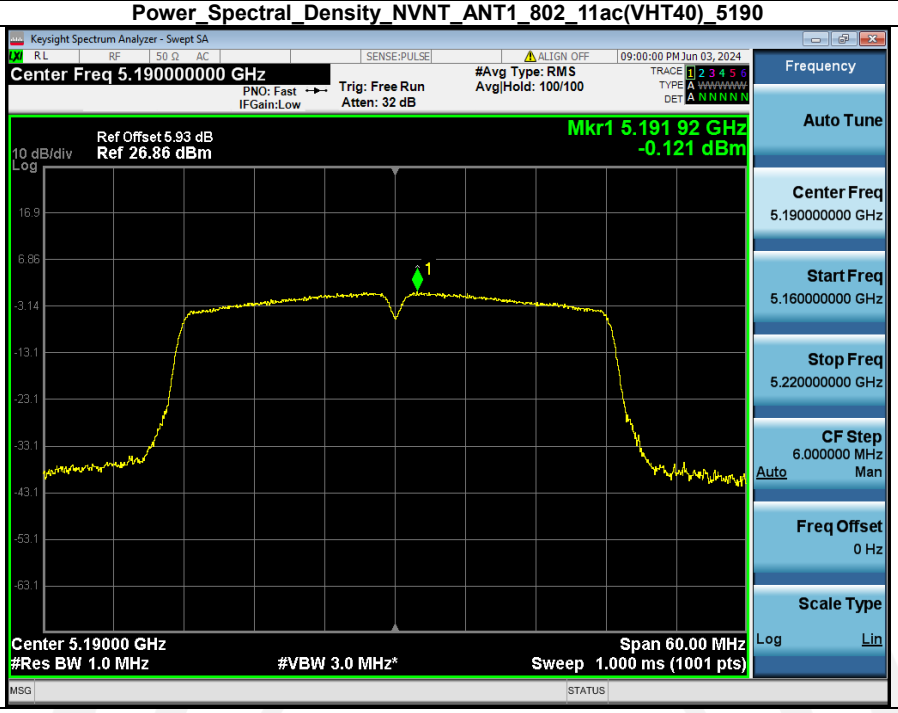
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180


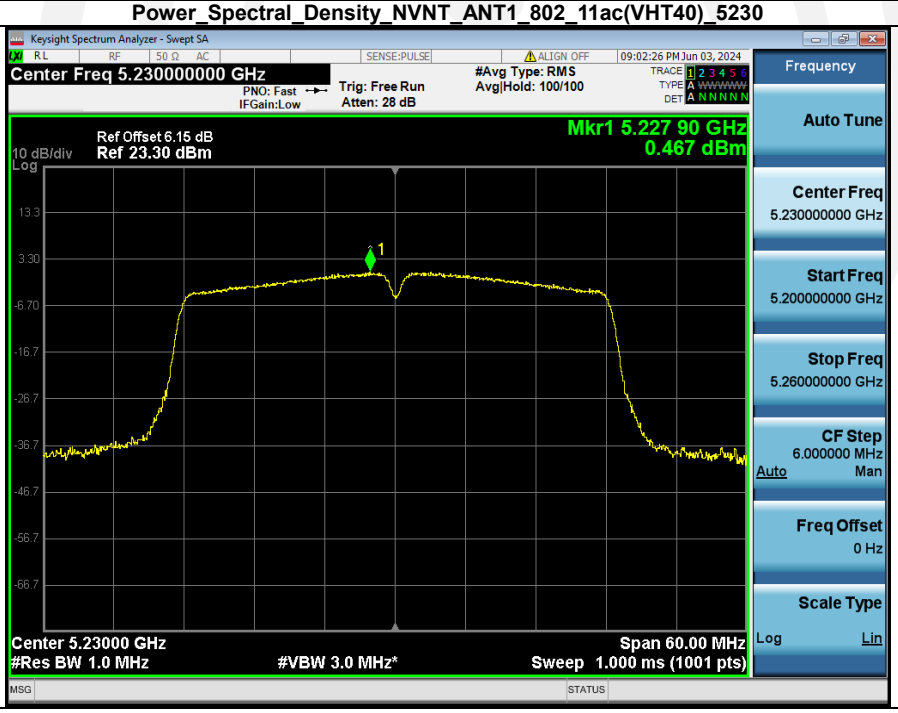
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200


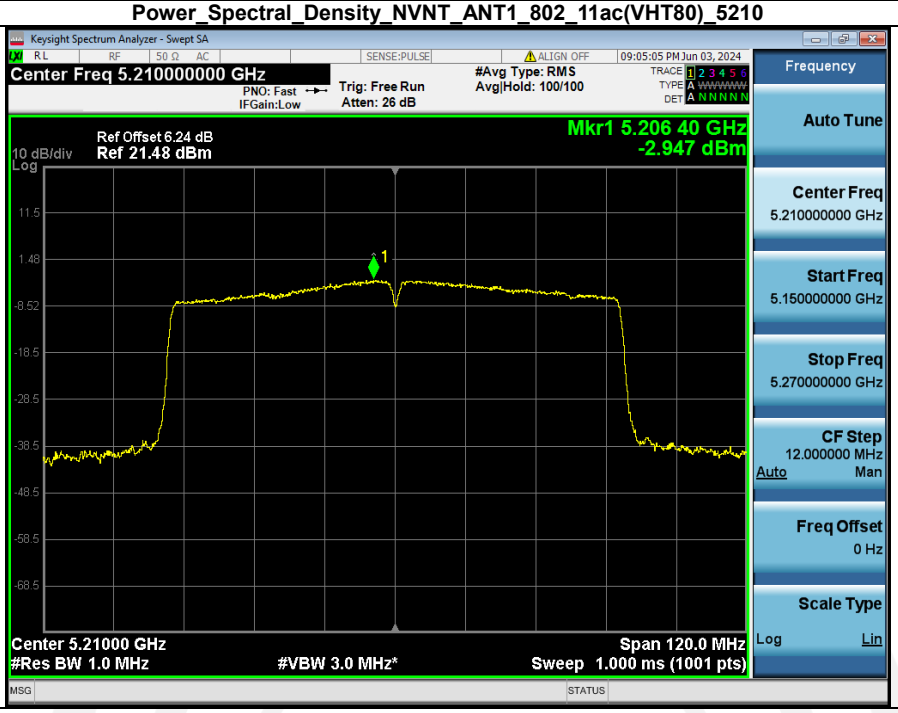
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190


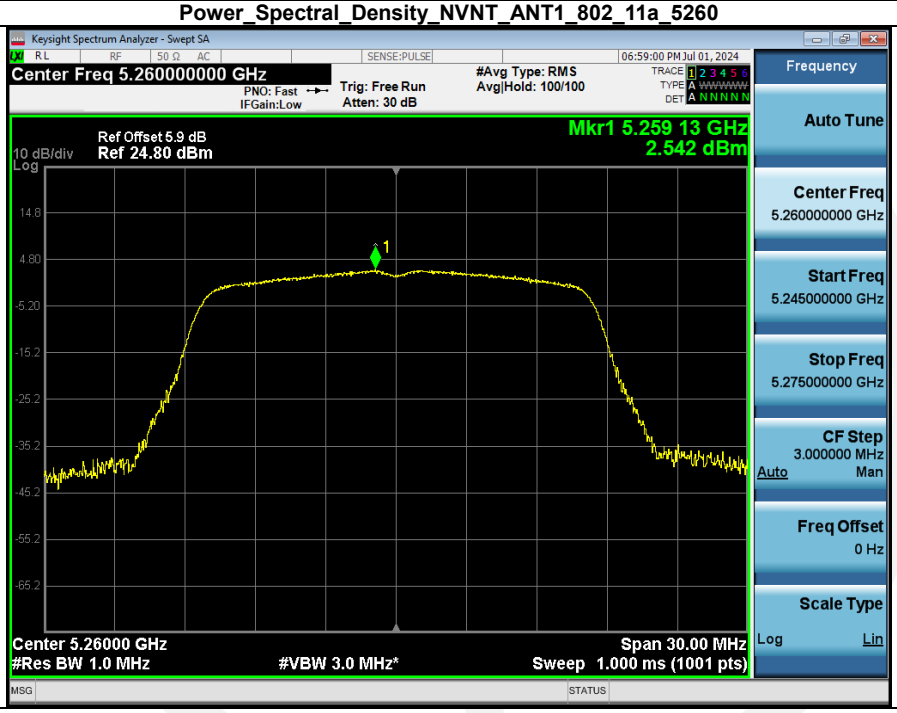
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230


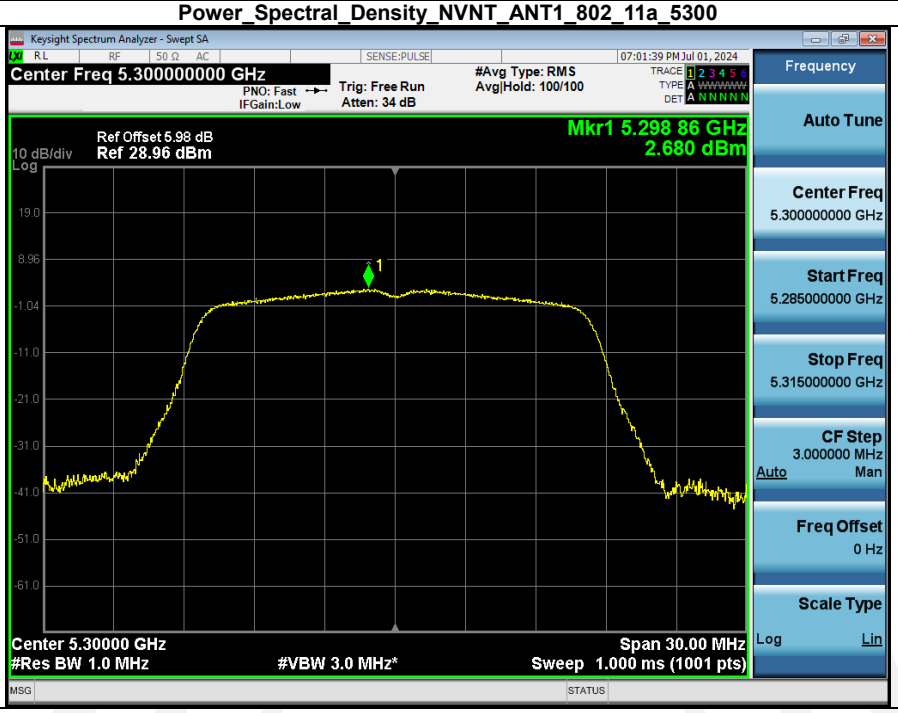
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210


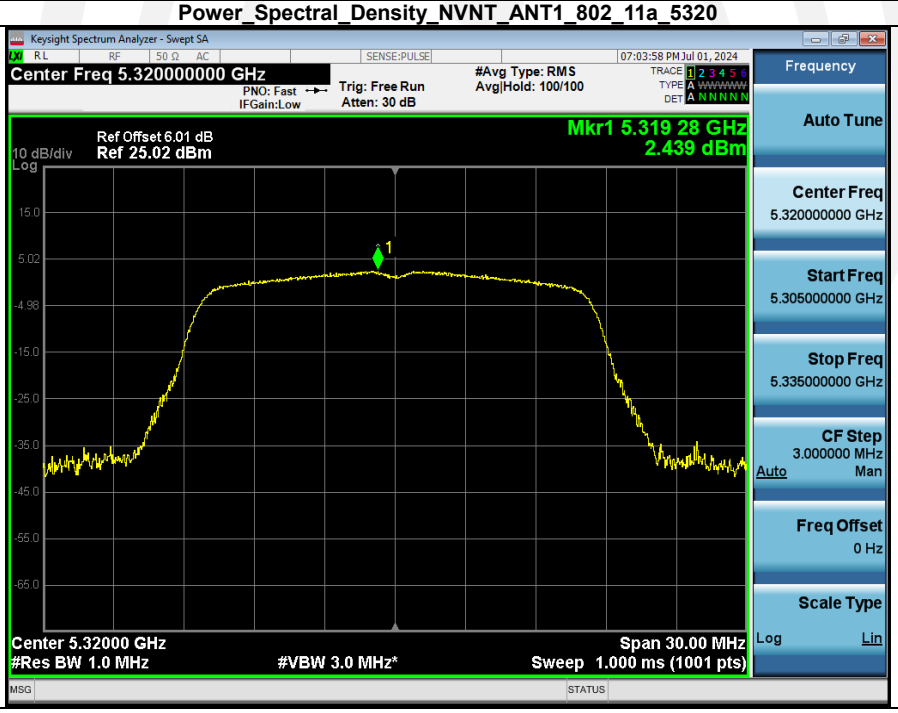
Band 2 (5260-5320 MHz):

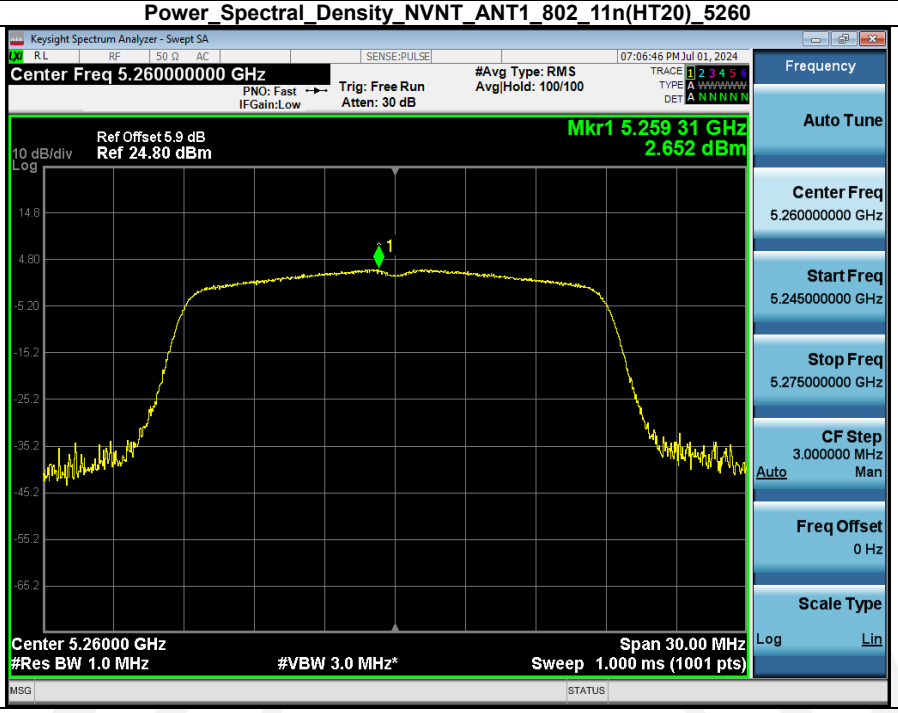
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	2.54	0.12	2.66	11	Pass
NVNT	ANT1	802.11a	5300.00	2.68	0.12	2.80	11	Pass
NVNT	ANT1	802.11a	5320.00	2.44	0.12	2.56	11	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	2.65	0.13	2.78	11	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	2.51	0.13	2.64	11	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	2.39	0.13	2.52	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	2.38	0.13	2.51	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	2.54	0.13	2.67	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	2.09	0.13	2.22	11	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	-0.19	0.26	0.07	11	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	-0.88	0.00	-0.88	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	-0.33	0.13	-0.20	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	-0.36	0.13	-0.23	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	-3.57	0.51	-3.06	11	Pass

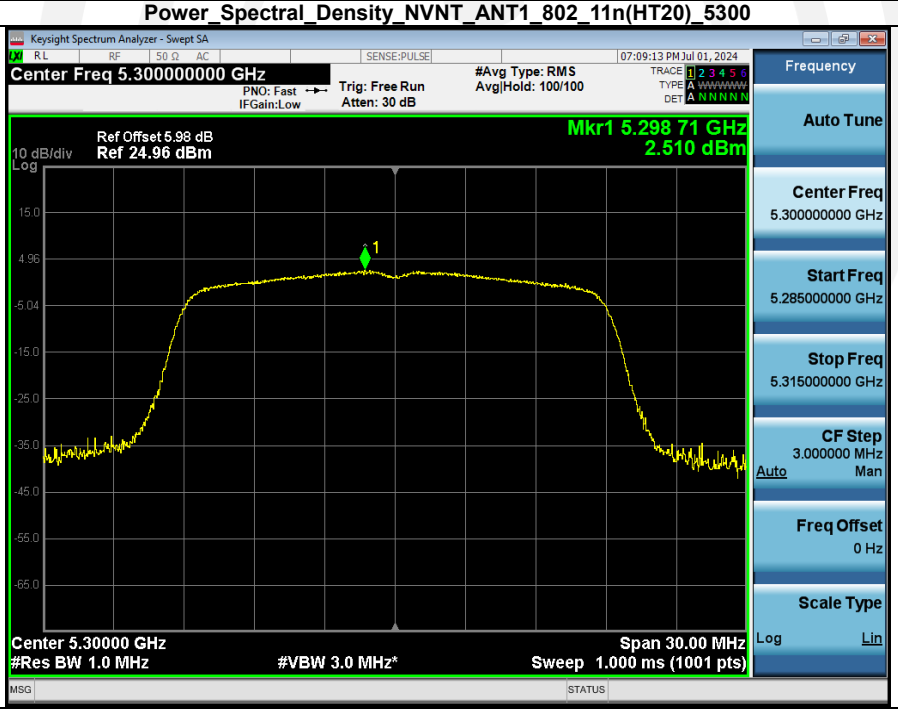
Power_Spectral_Density_NVNT_ANT1_802_11a_5260

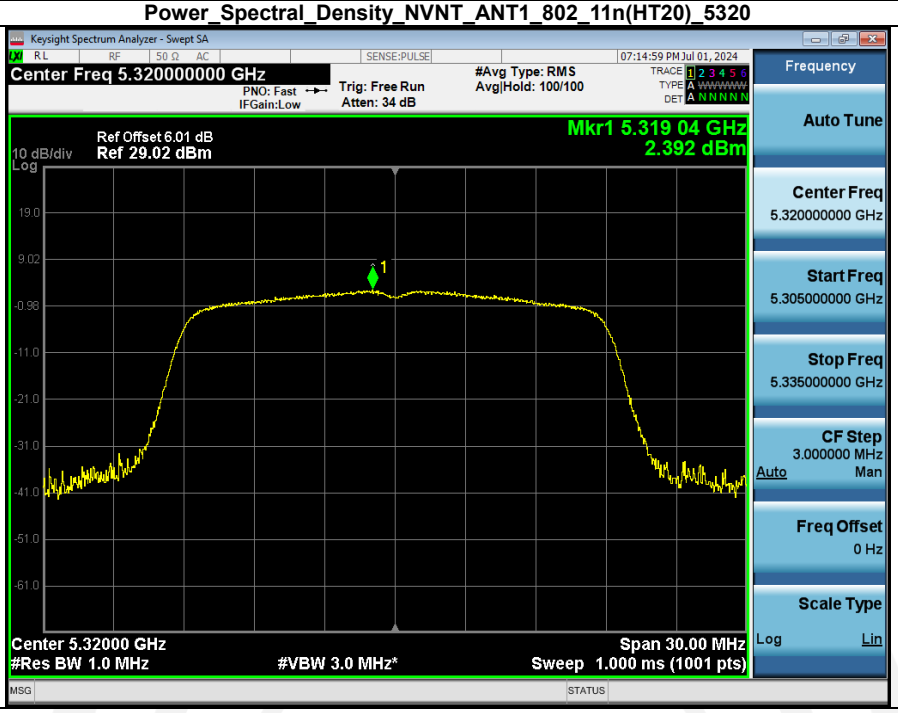


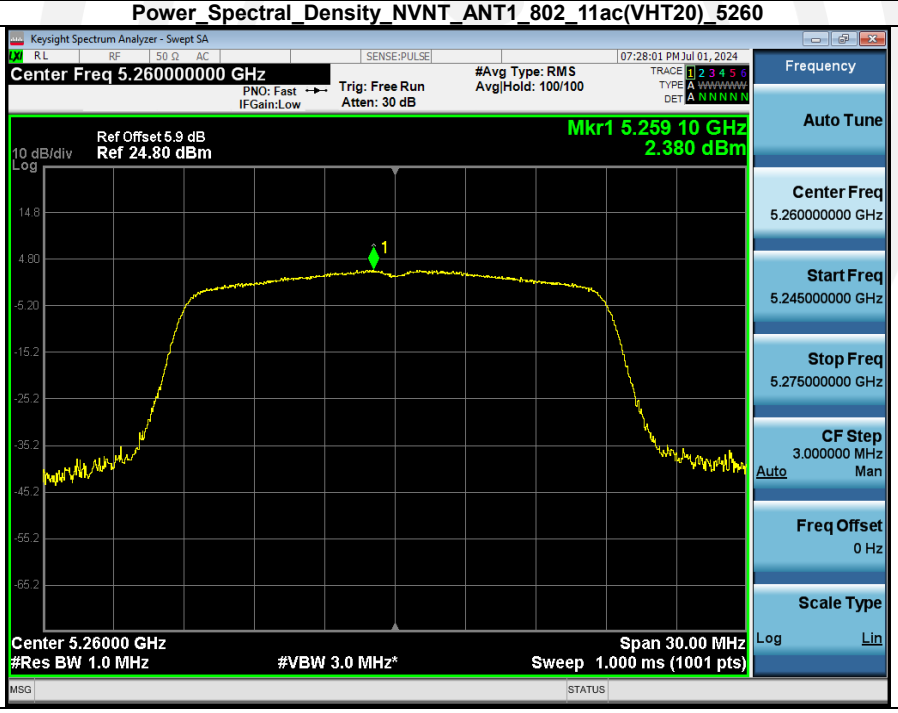
Power_Spectral_Density_NVNT_ANT1_802_11a_5300


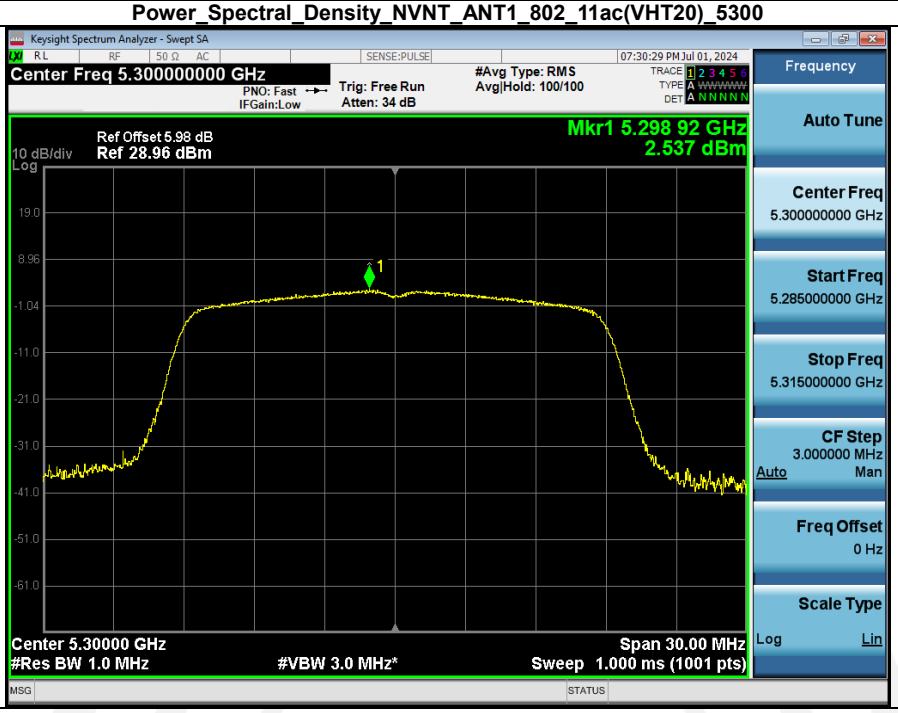
Power_Spectral_Density_NVNT_ANT1_802_11a_5320


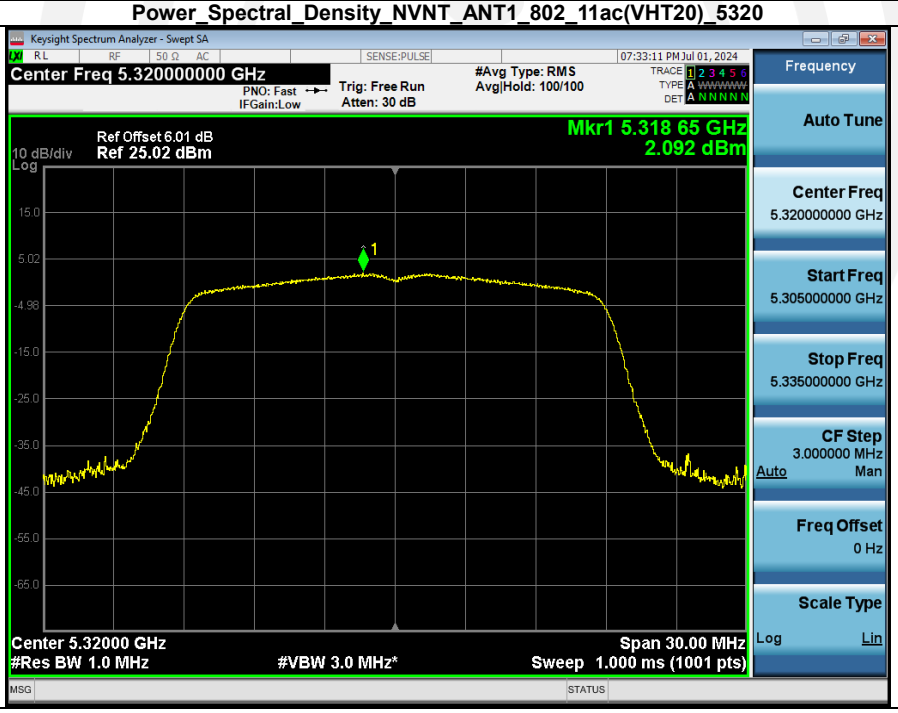
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5260


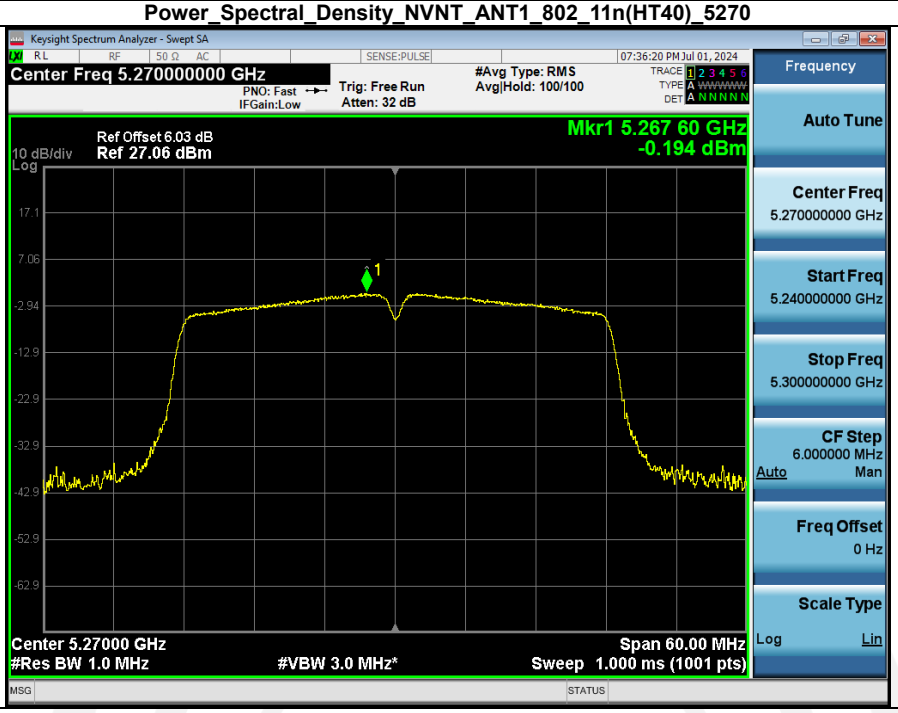
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5300


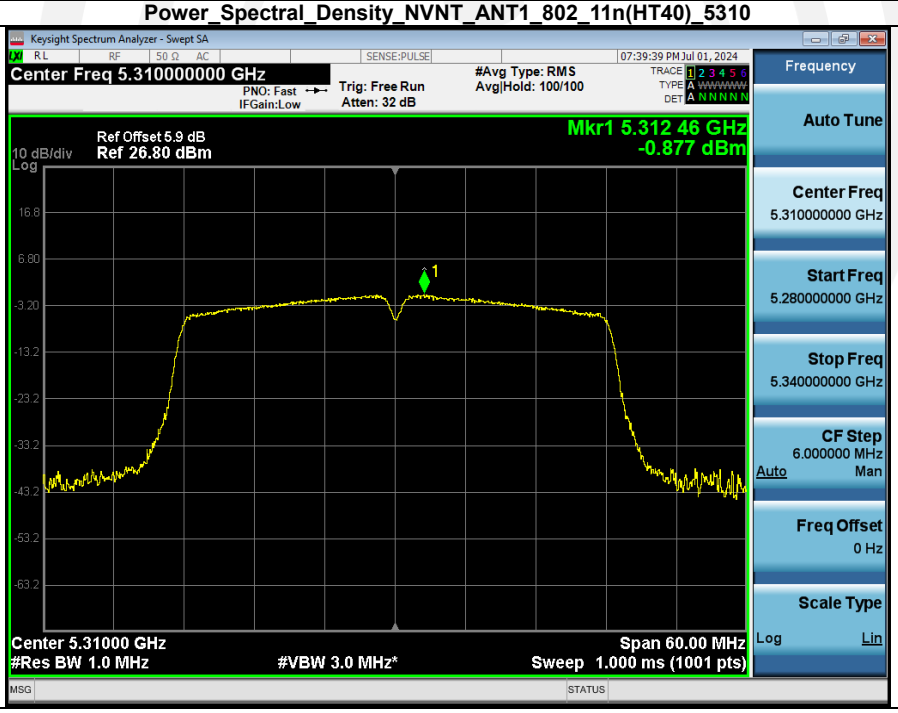
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5320


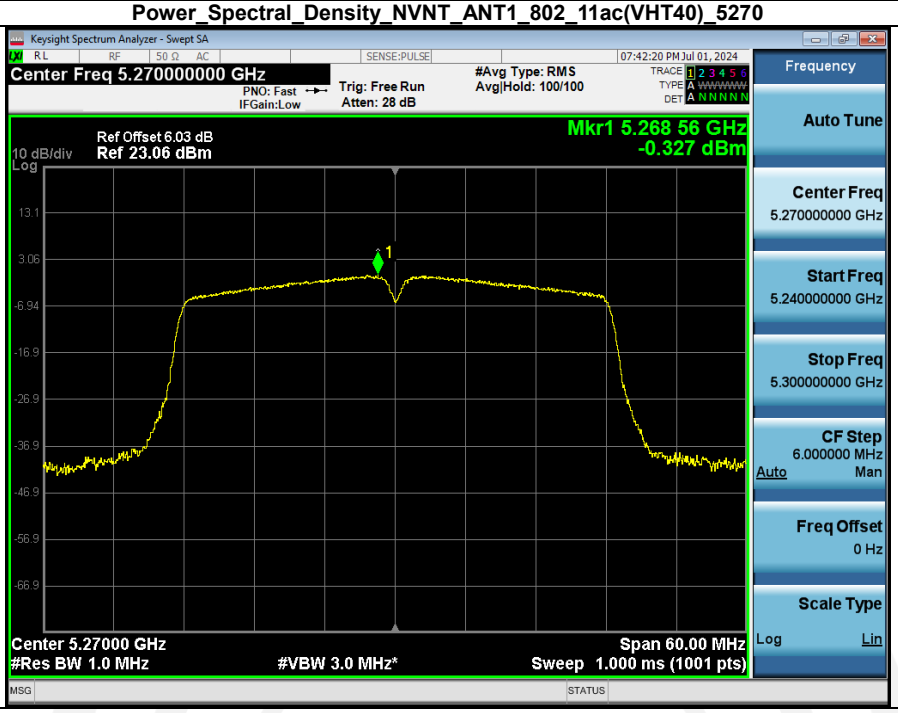
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5260


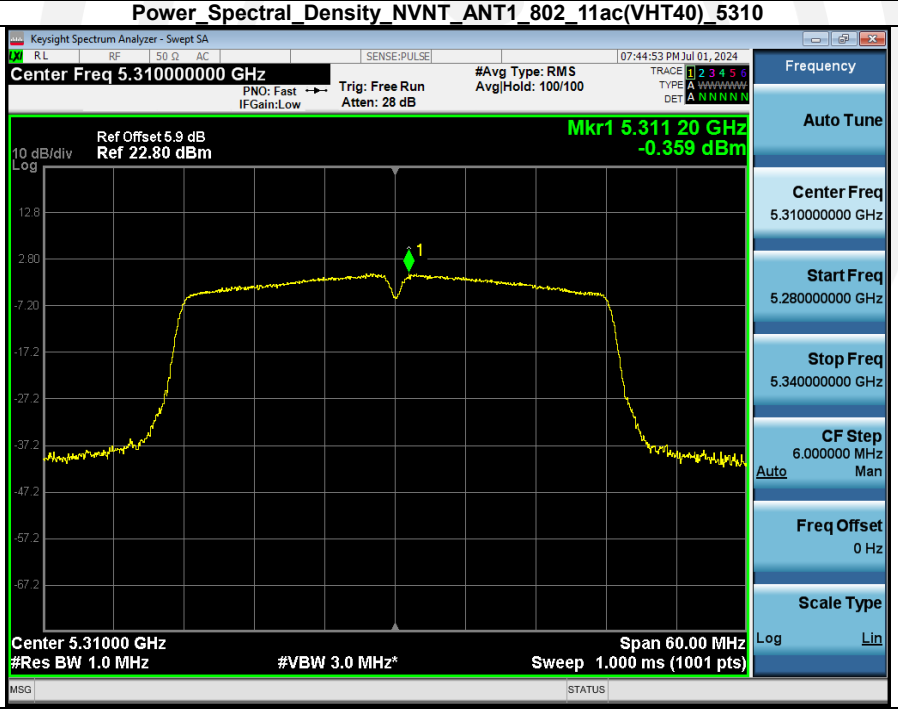
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5300


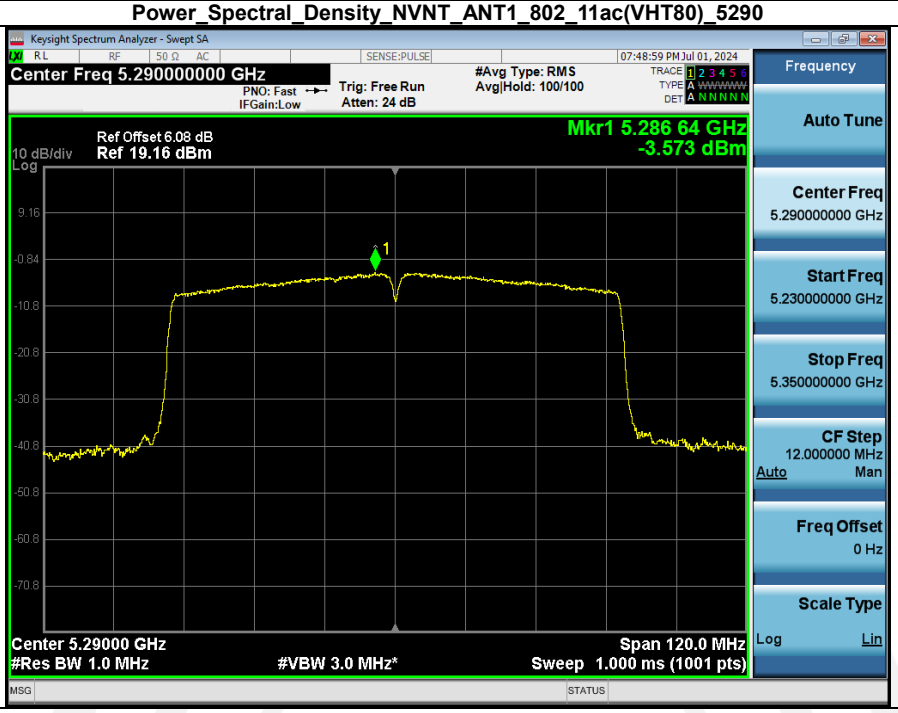
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5320


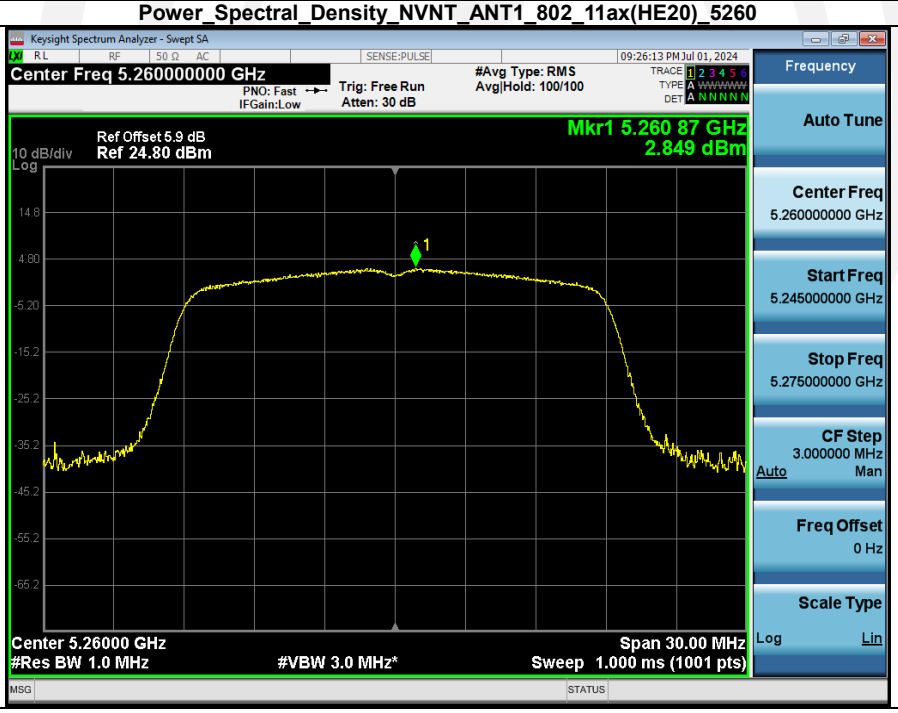
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5270


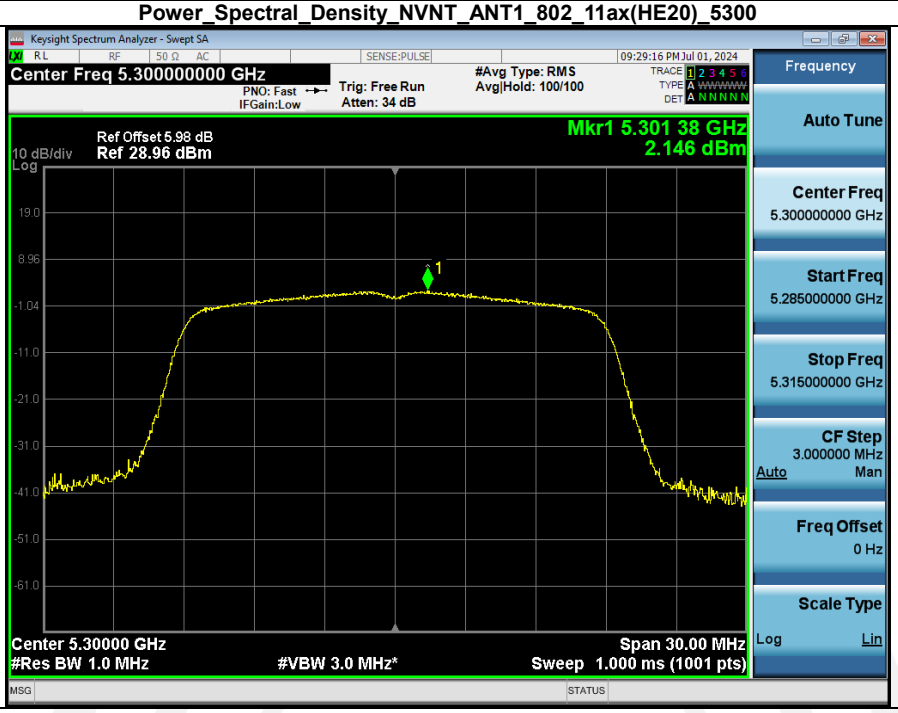
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5310


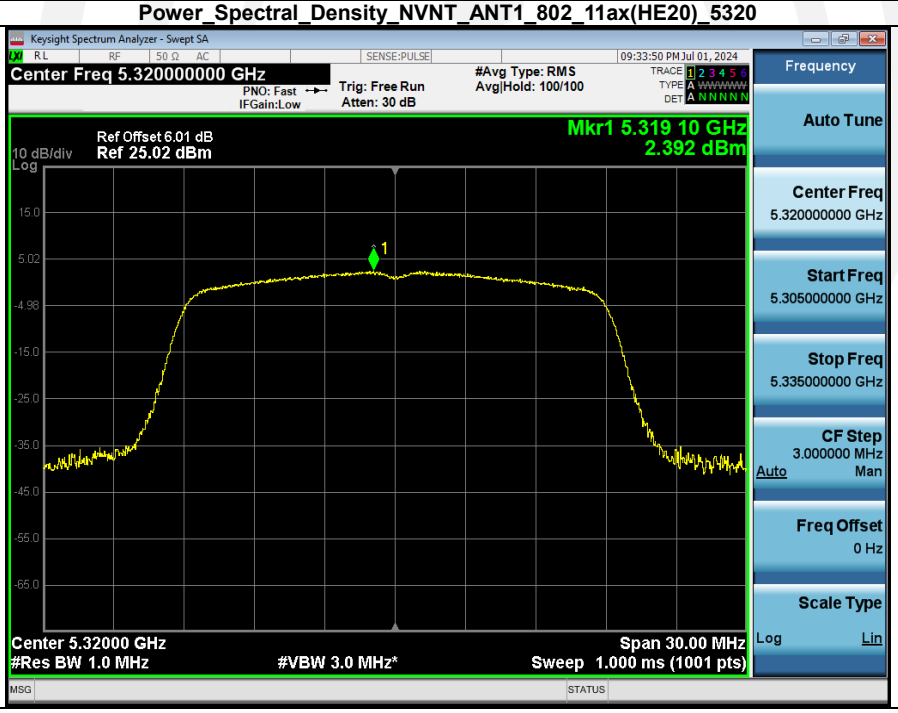
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5270


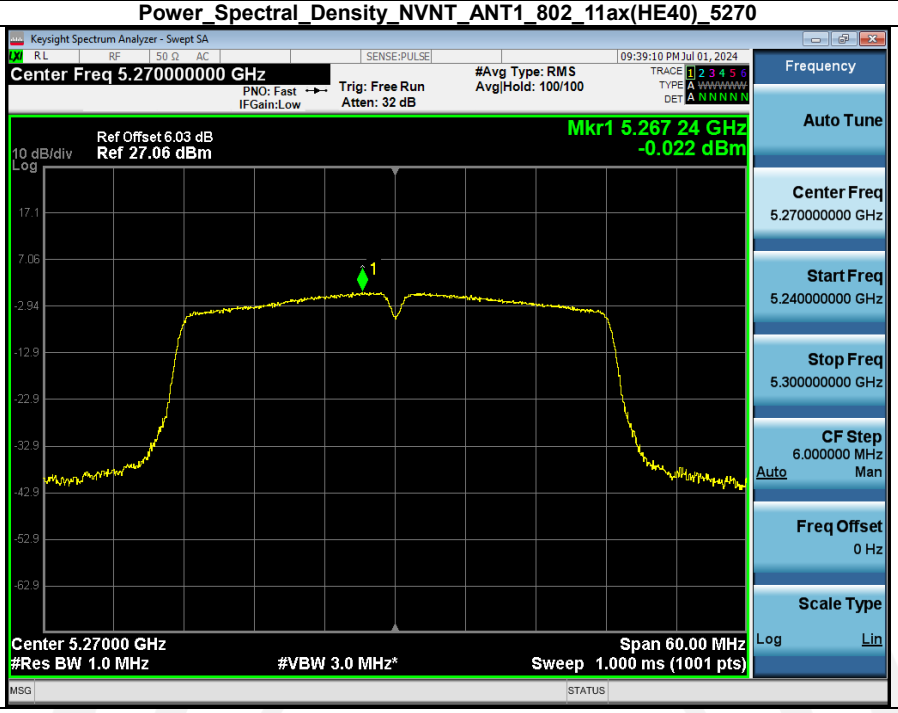
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5310


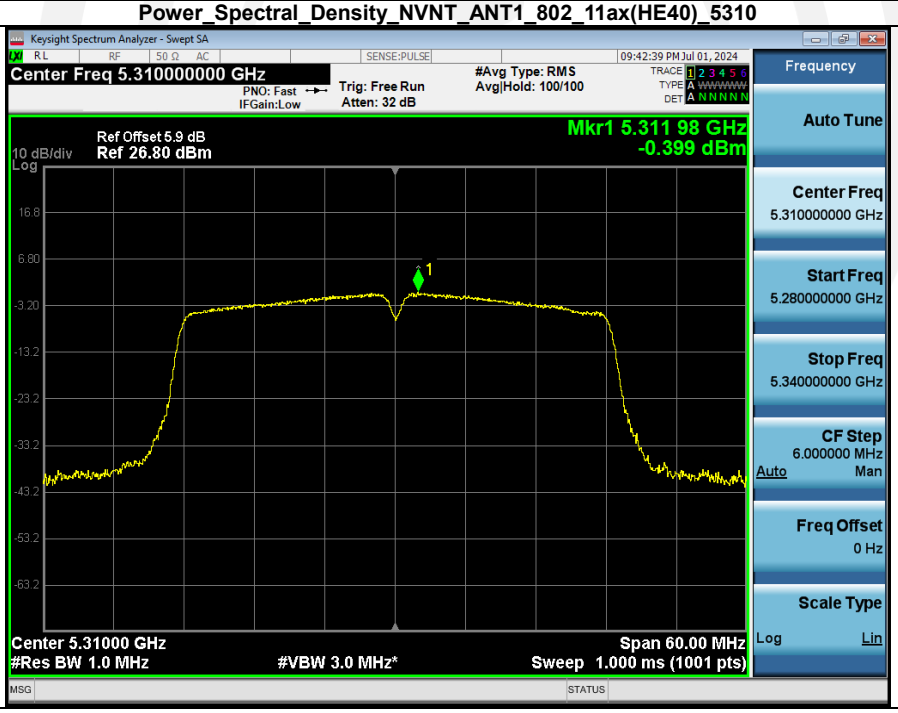
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5290


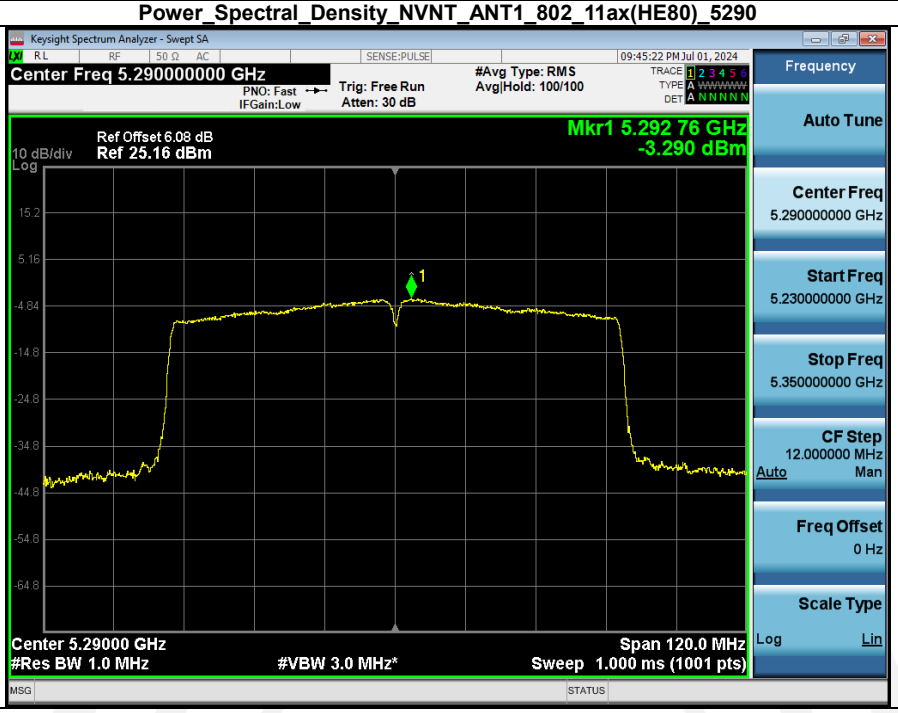
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5260


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5300


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5320


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5270


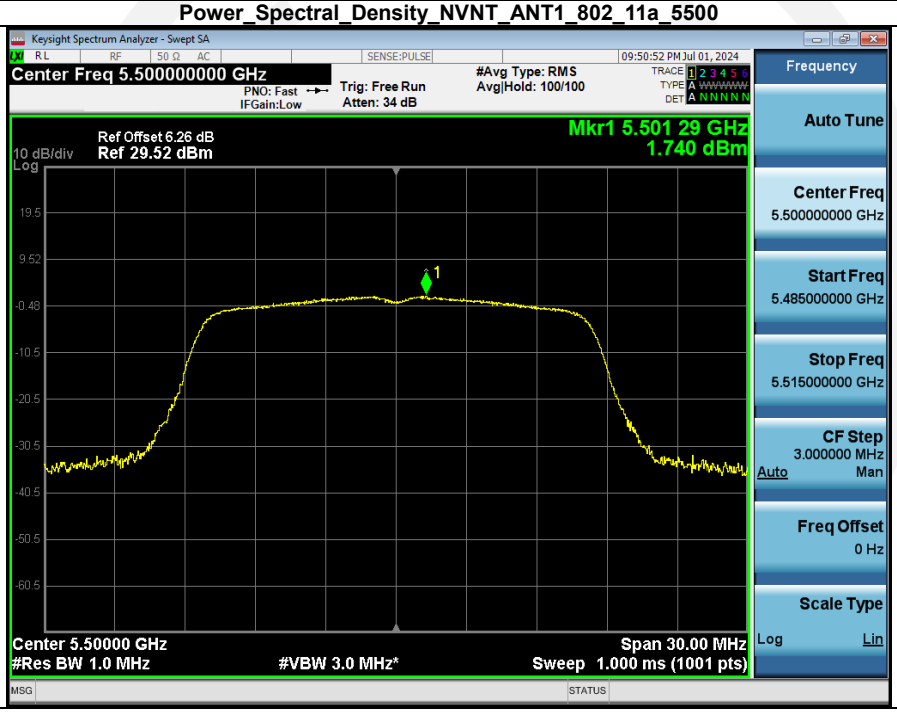
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5310


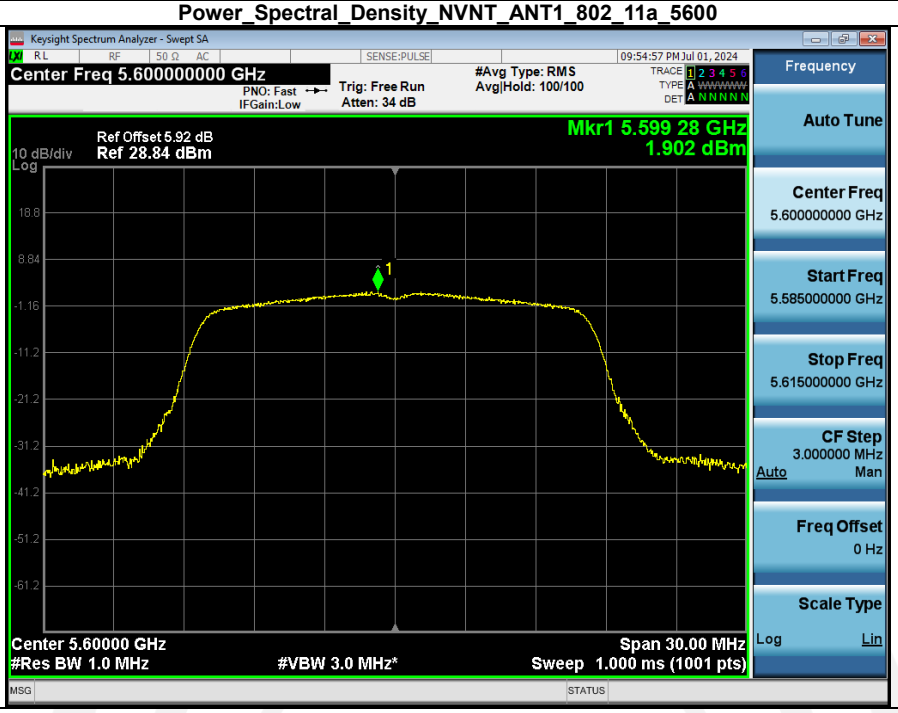
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5290


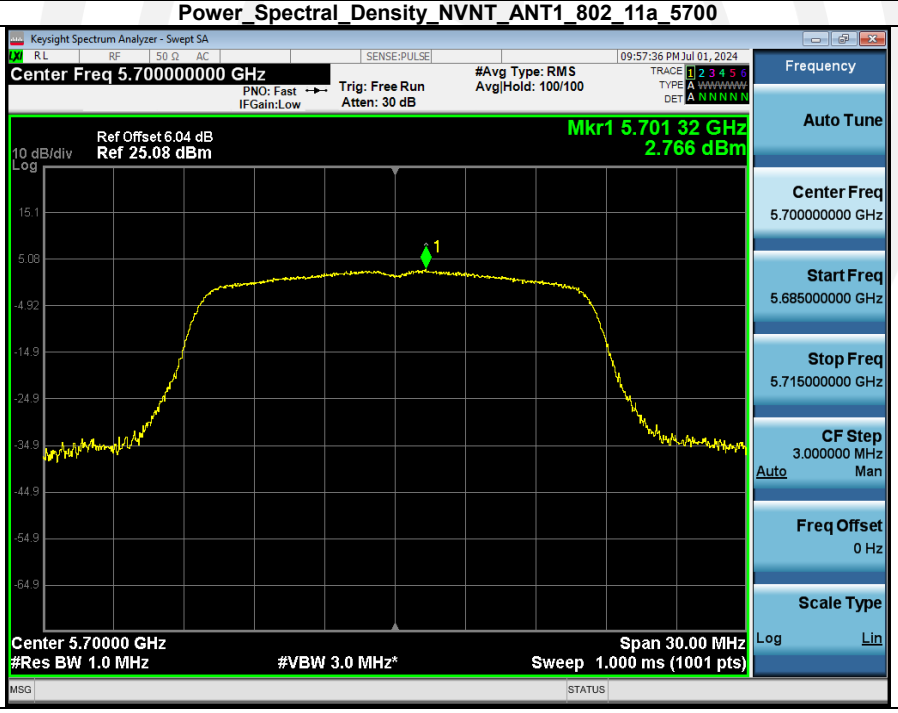
Band 3 (5500-5570 MHz):

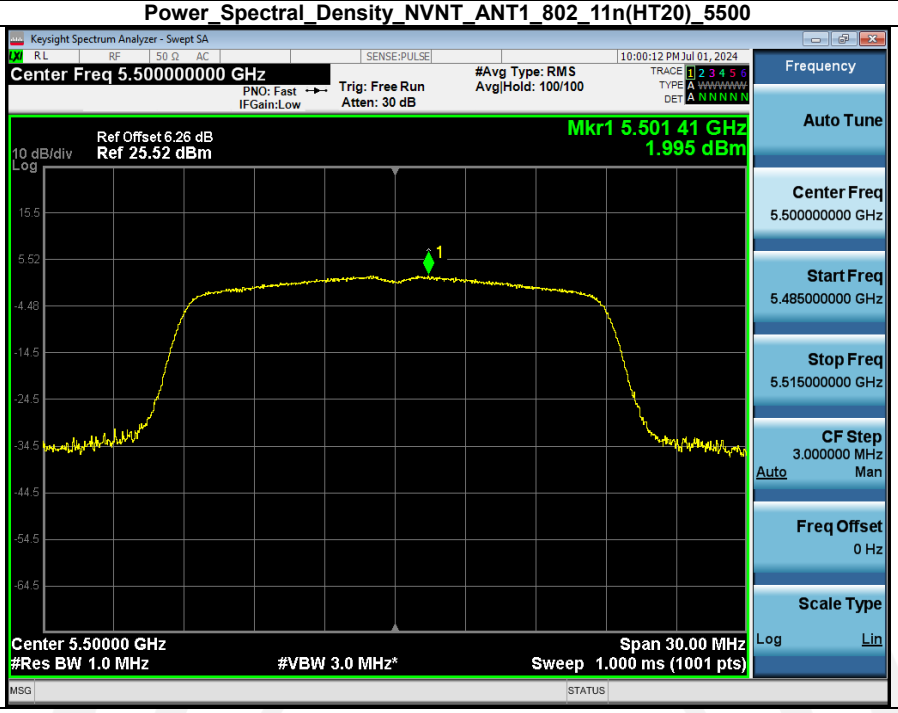
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500	1.74	0.00	1.74	11	Pass
NVNT	ANT1	802.11a	5600	1.90	0.12	2.02	11	Pass
NVNT	ANT1	802.11a	5700.00	2.77	0.12	2.89	11	Pass
NVNT	ANT1	802.11n(HT20)	5500	2.00	0.13	2.13	11	Pass
NVNT	ANT1	802.11n(HT20)	5600	0.99	0.13	1.12	11	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	2.49	0.13	2.62	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5500	2.00	0.13	2.13	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5600	1.49	0.13	1.62	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	2.51	0.13	2.64	11	Pass
NVNT	ANT1	802.11n(HT40)	5510	-0.99	0.00	-0.99	11	Pass
NVNT	ANT1	802.11n(HT40)	5590	-1.42	0.26	-1.16	11	Pass
NVNT	ANT1	802.11n(HT40)	5670	0.01	0.26	0.27	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5510	-1.07	0.26	-0.81	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5590	-1.60	0.26	-1.34	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5670	0.20	0.26	0.46	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5530	-4.93	0.51	-4.42	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5610	-4.92	0.51	-4.41	11	Pass

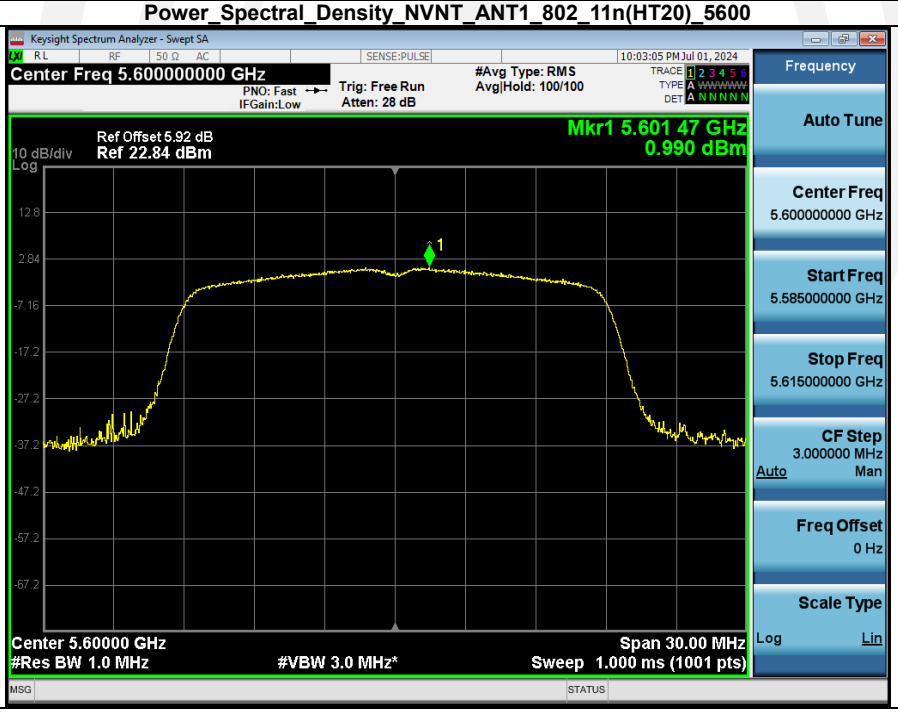
Power_Spectral_Density_NVNT_ANT1_802_11a_5500

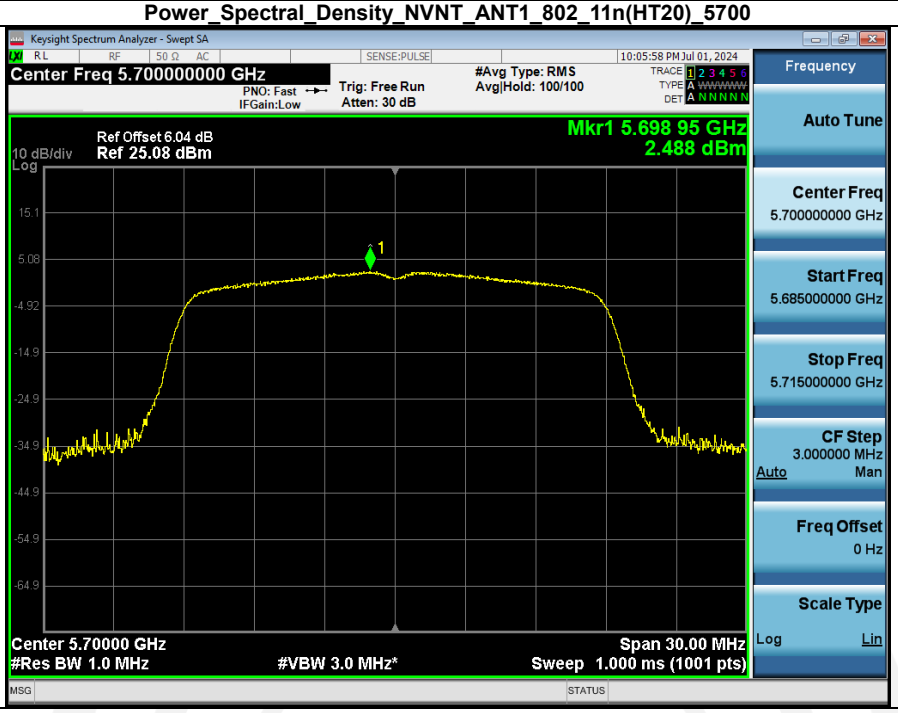


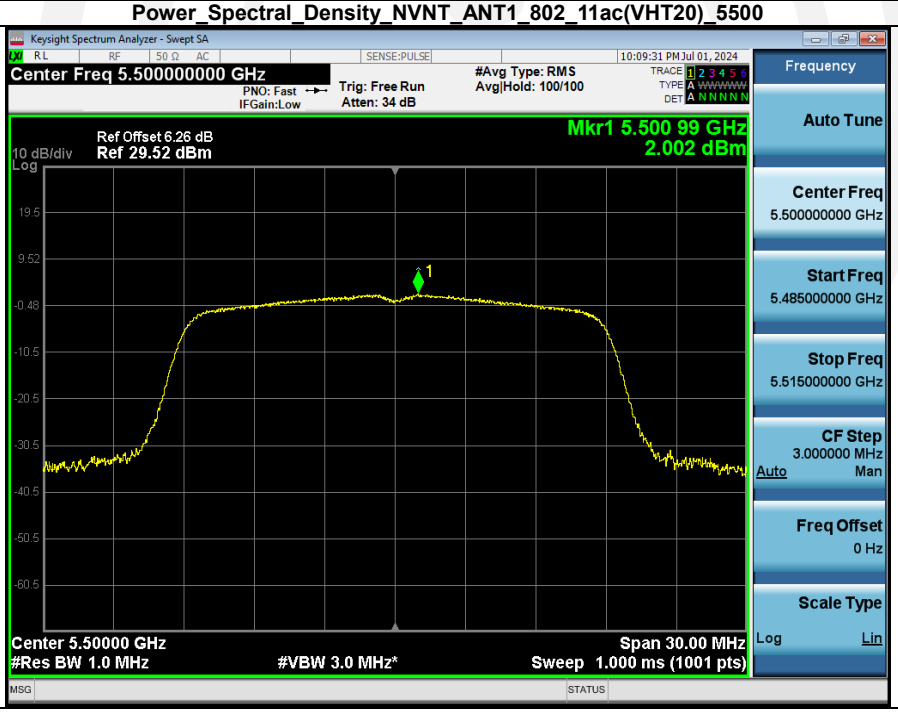
Power_Spectral_Density_NVNT_ANT1_802_11a_5600


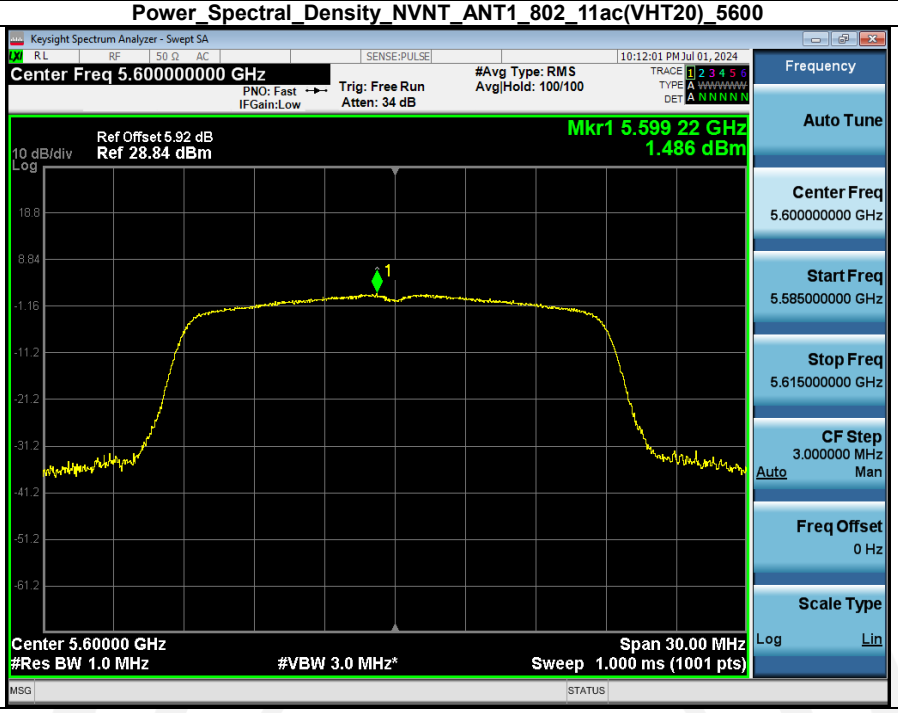
Power_Spectral_Density_NVNT_ANT1_802_11a_5700


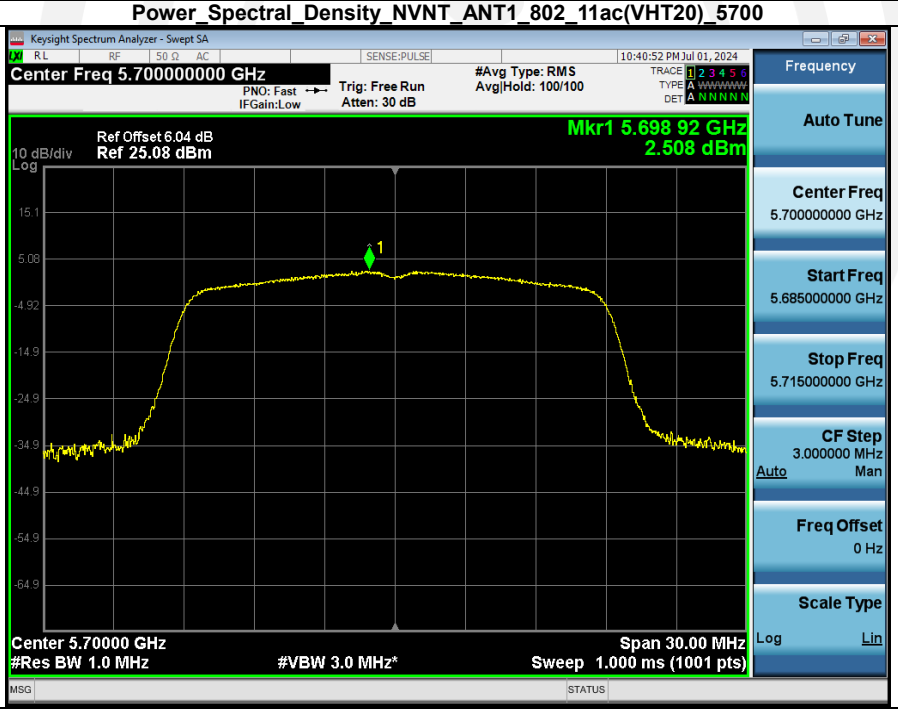
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5500


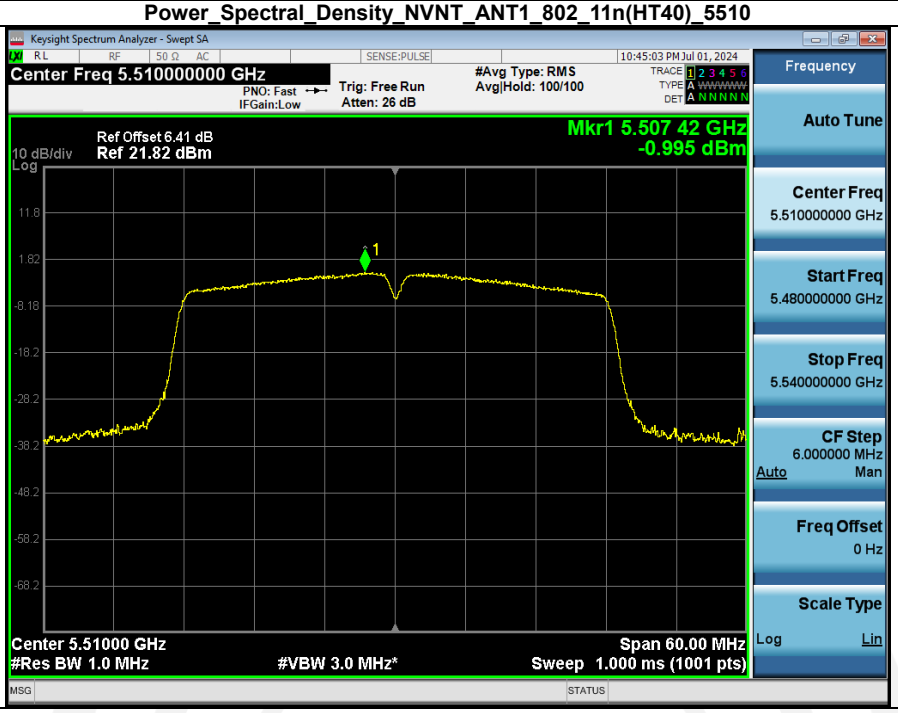
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5600


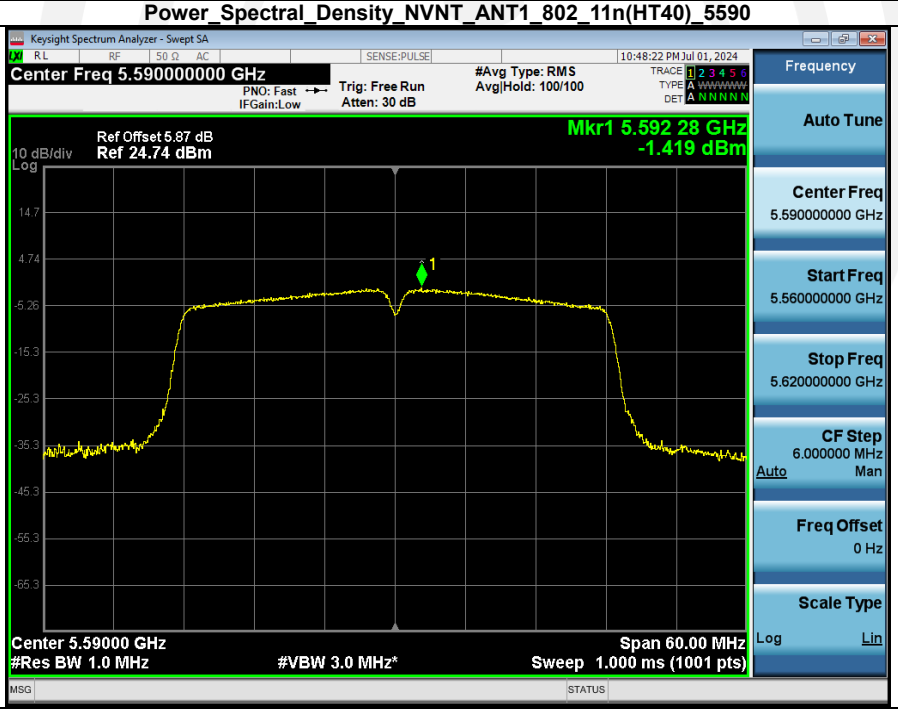
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5700


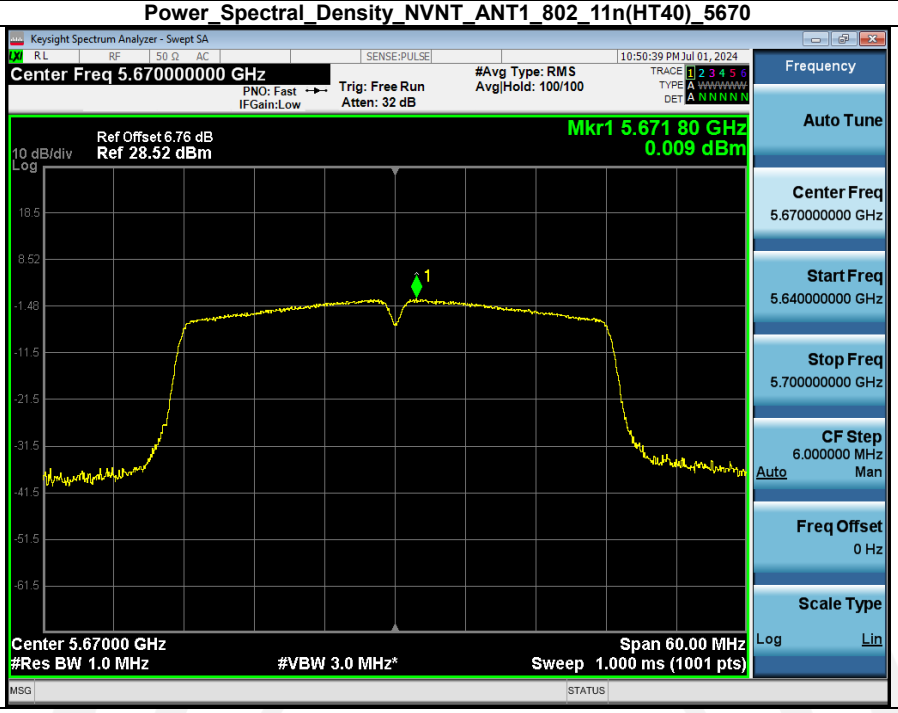
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5500


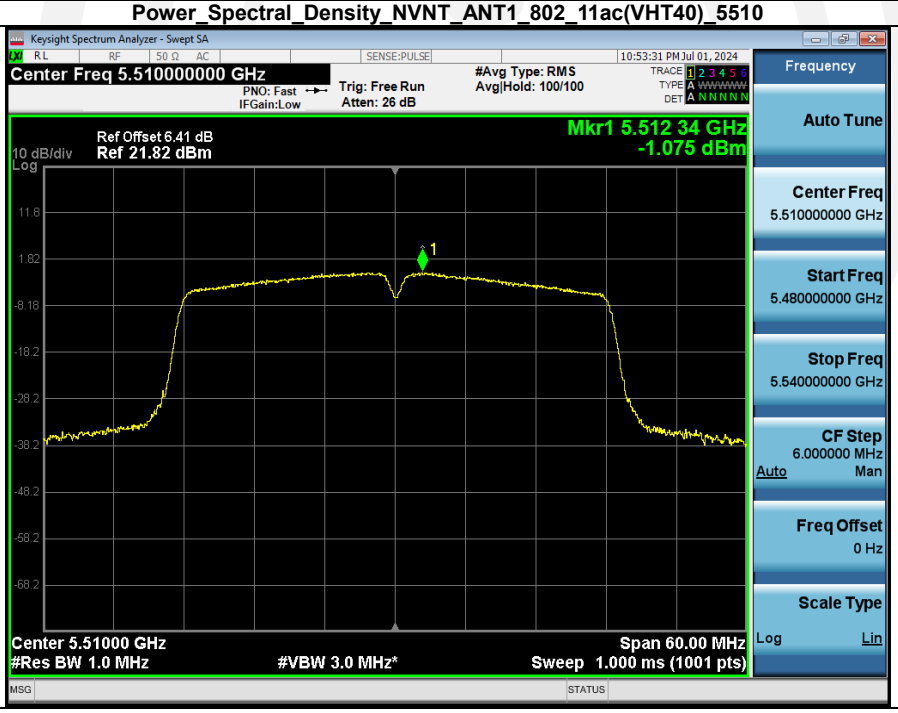
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5600


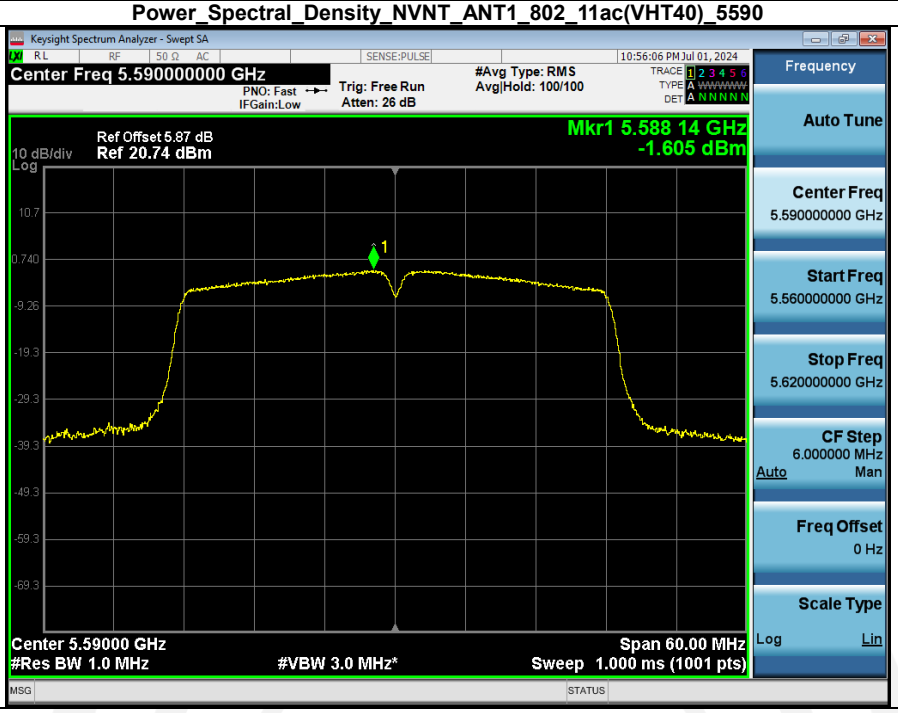
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5700


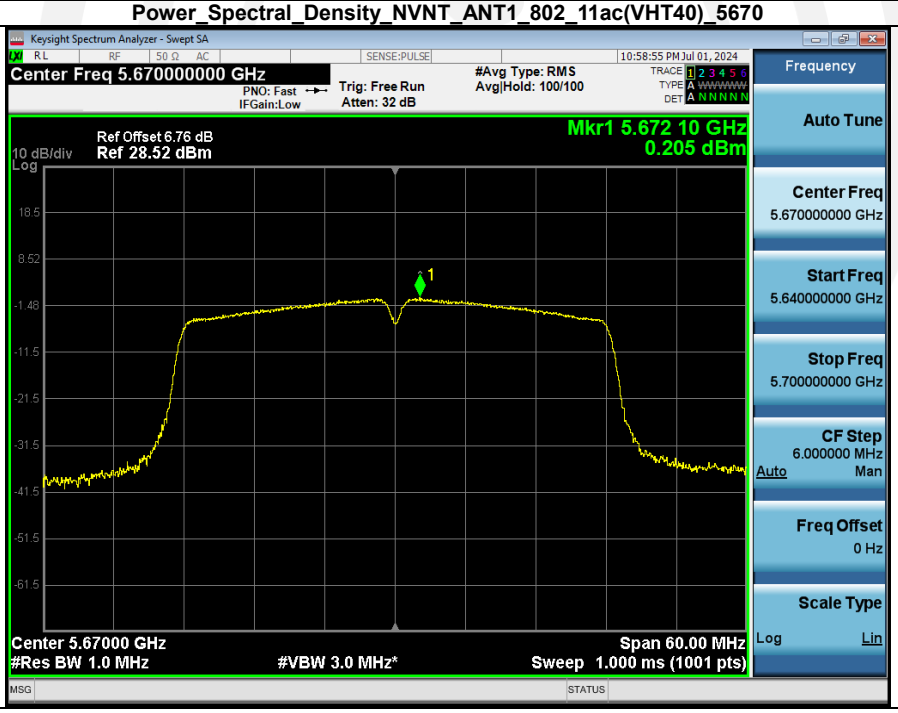
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5510


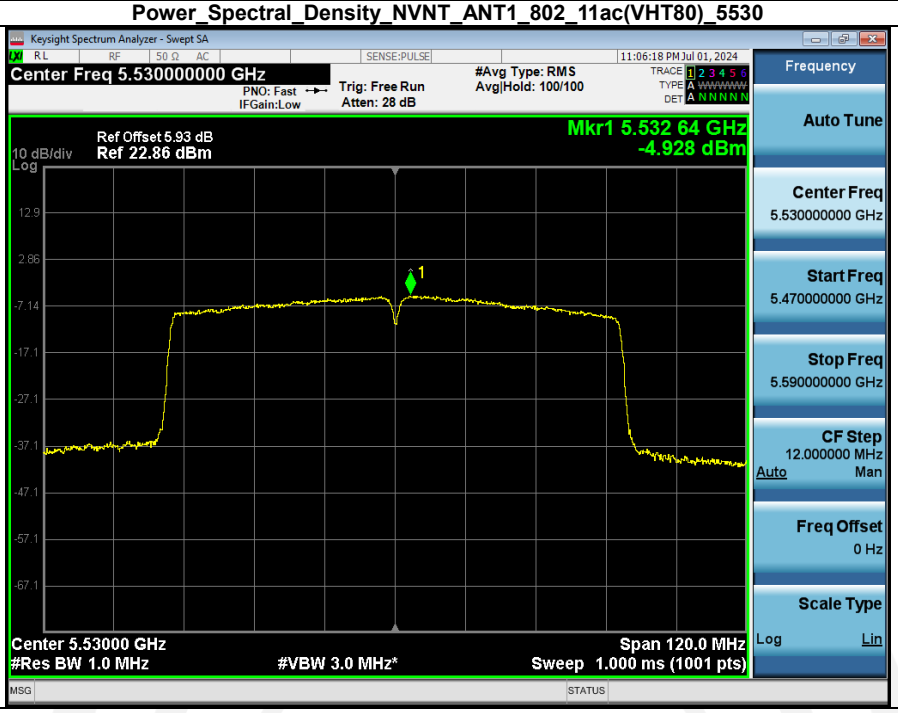
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5590


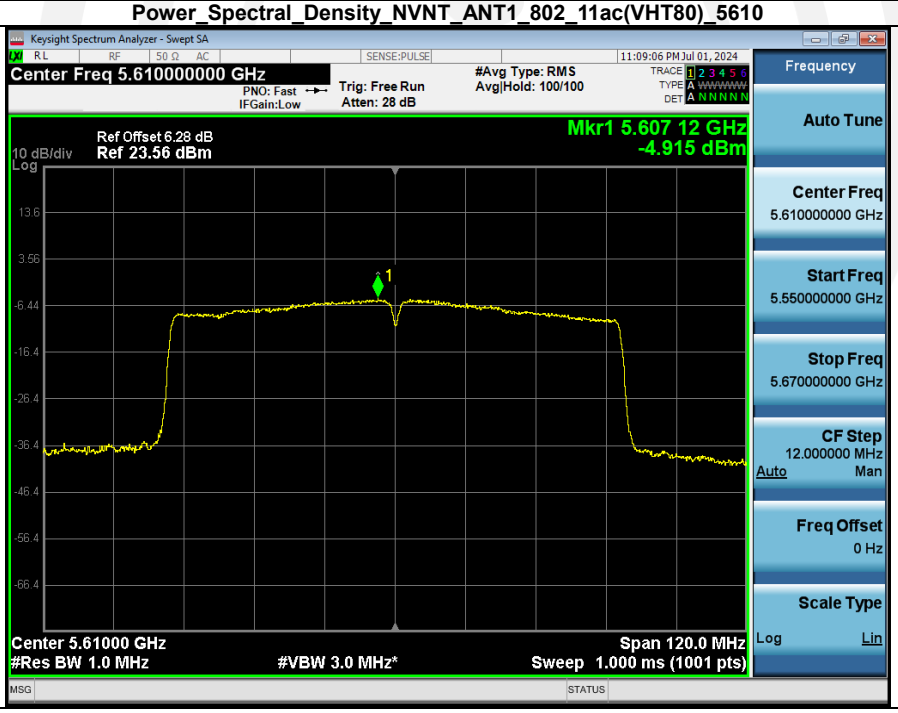
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5670


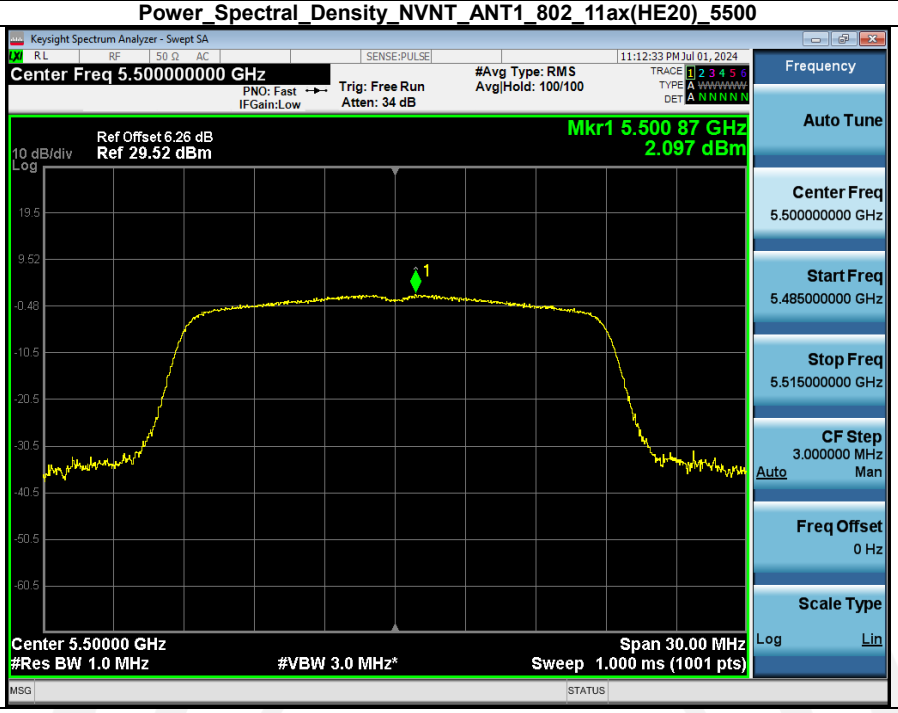
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5510


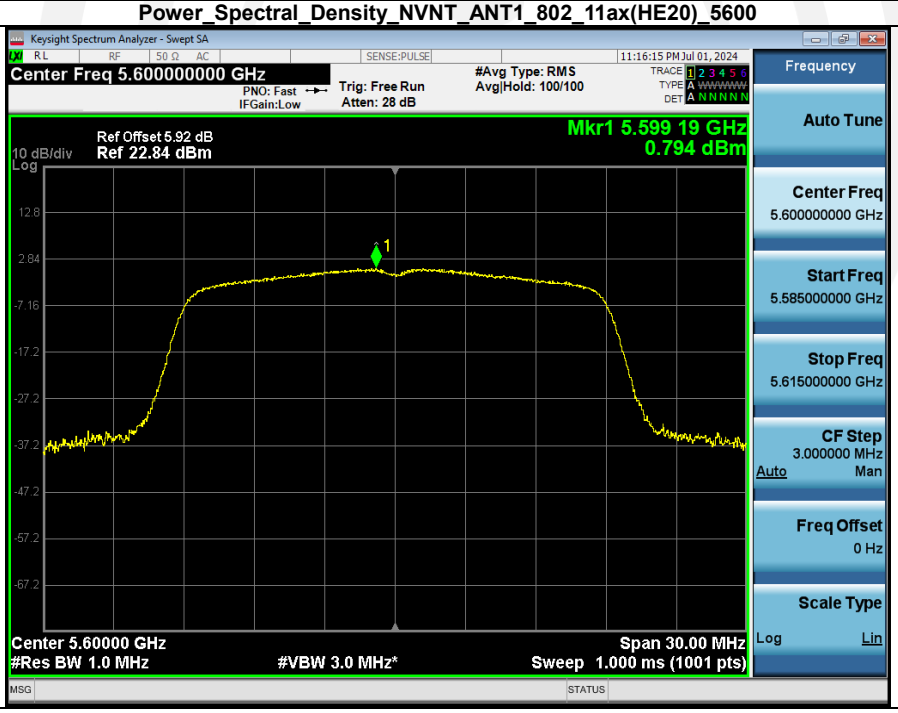
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5590


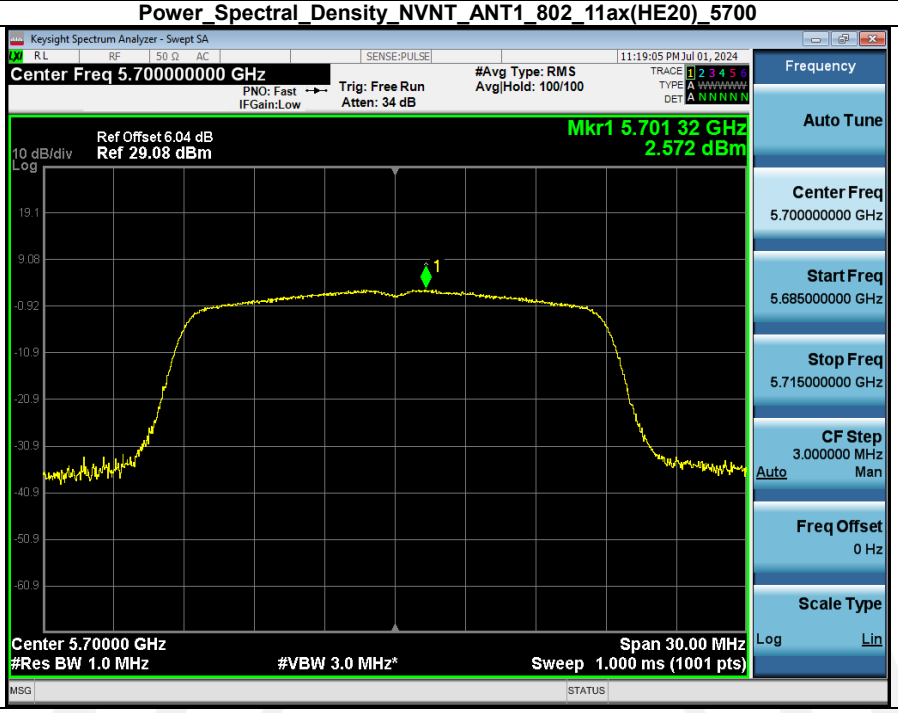
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5670


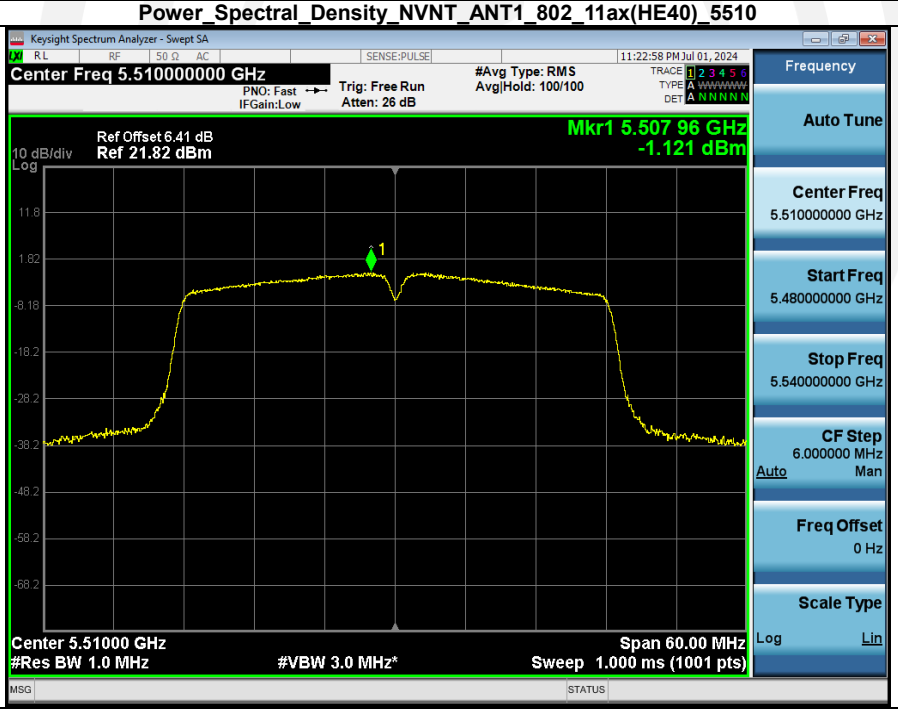
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5530


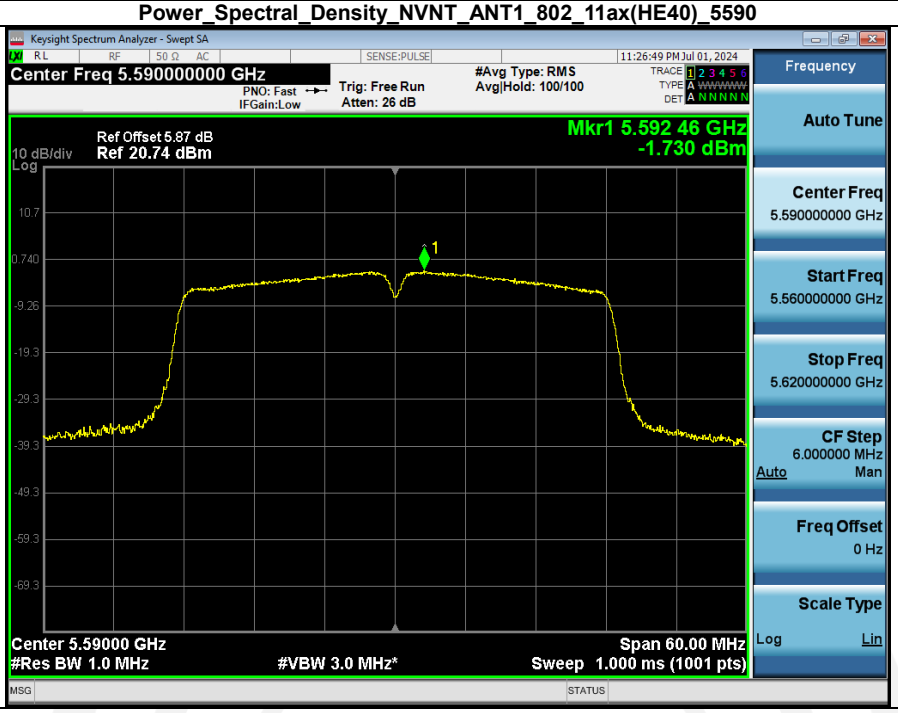
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5610


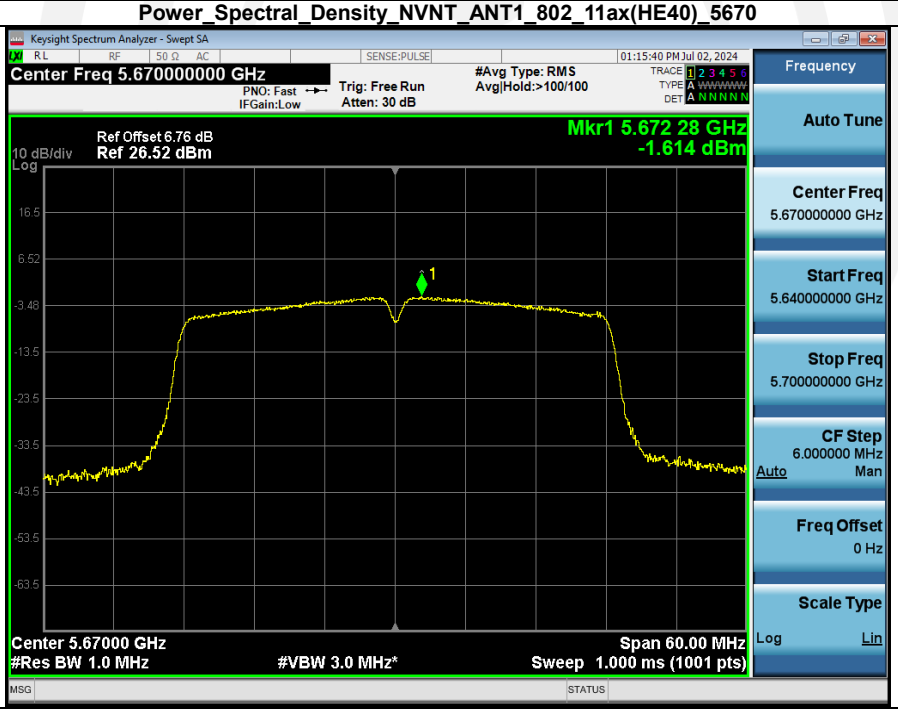
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5500


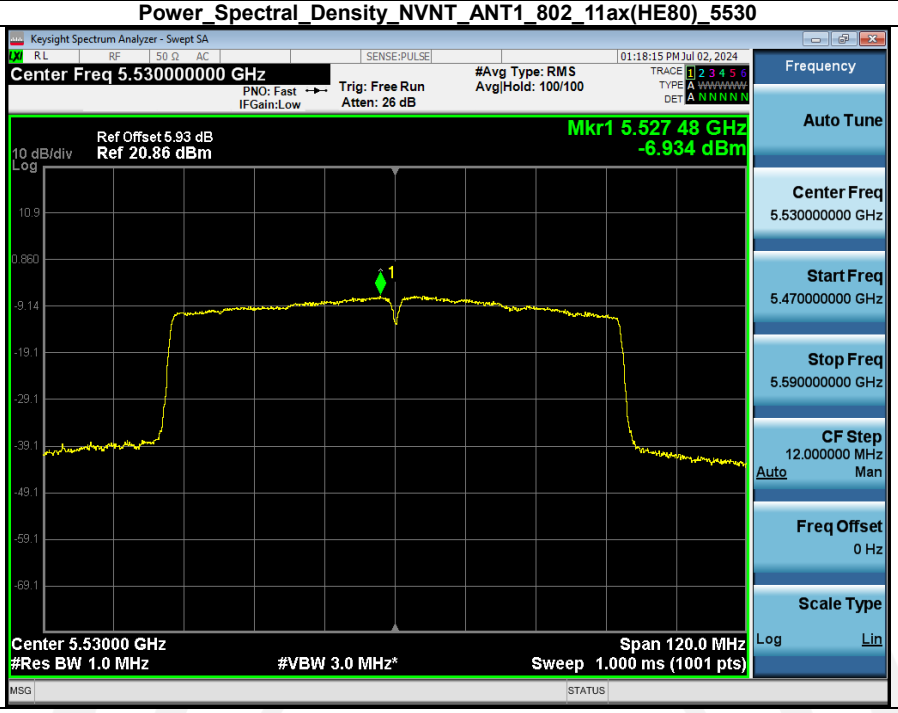
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5600


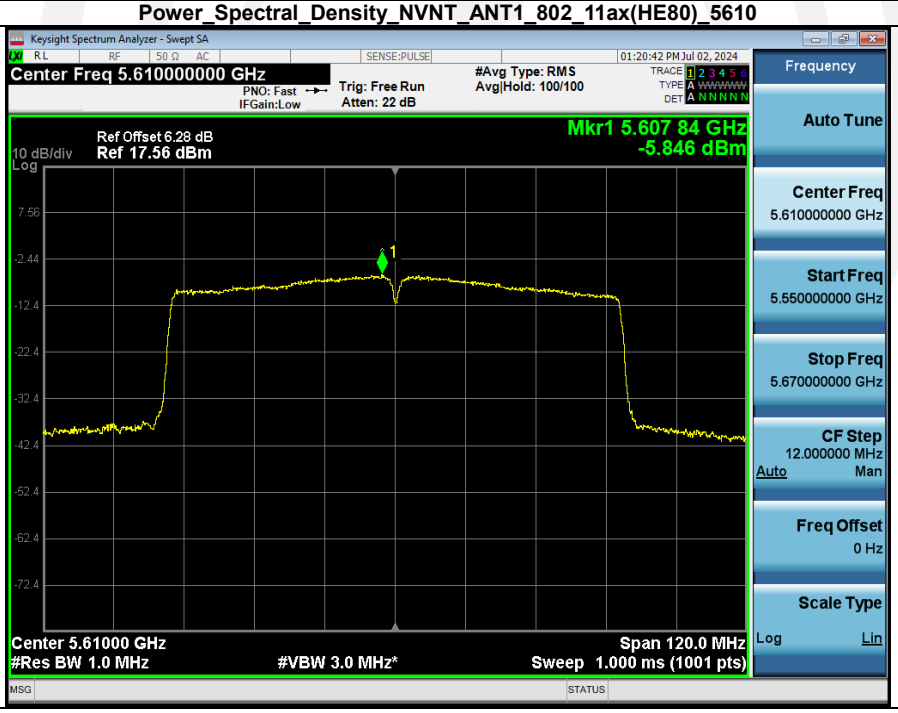
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5700


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5510


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5590


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5670


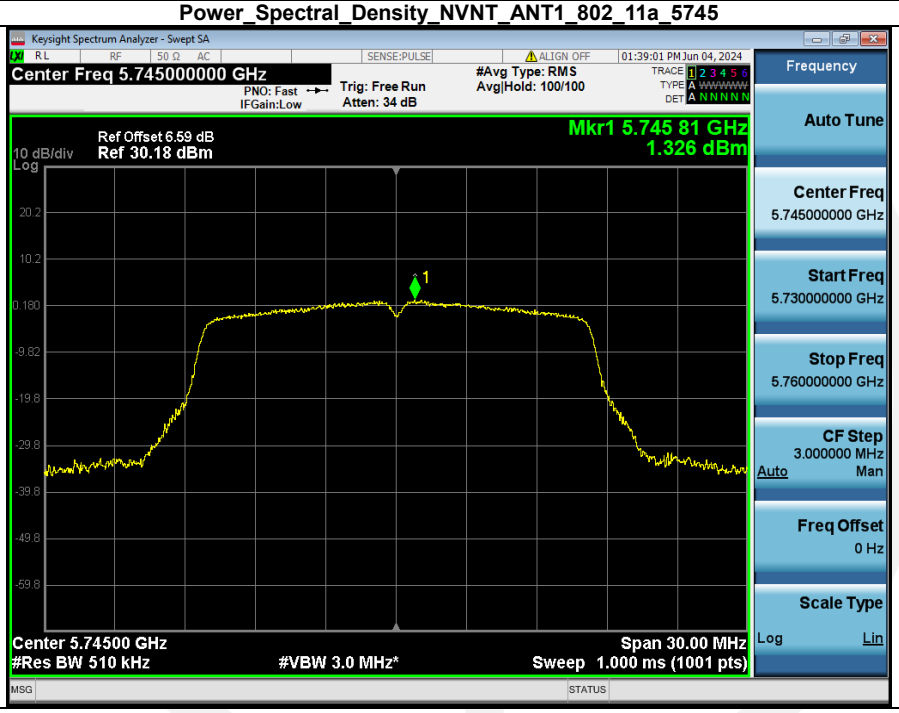
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5530


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5610


Band 4 (5725 – 5850 MHz)

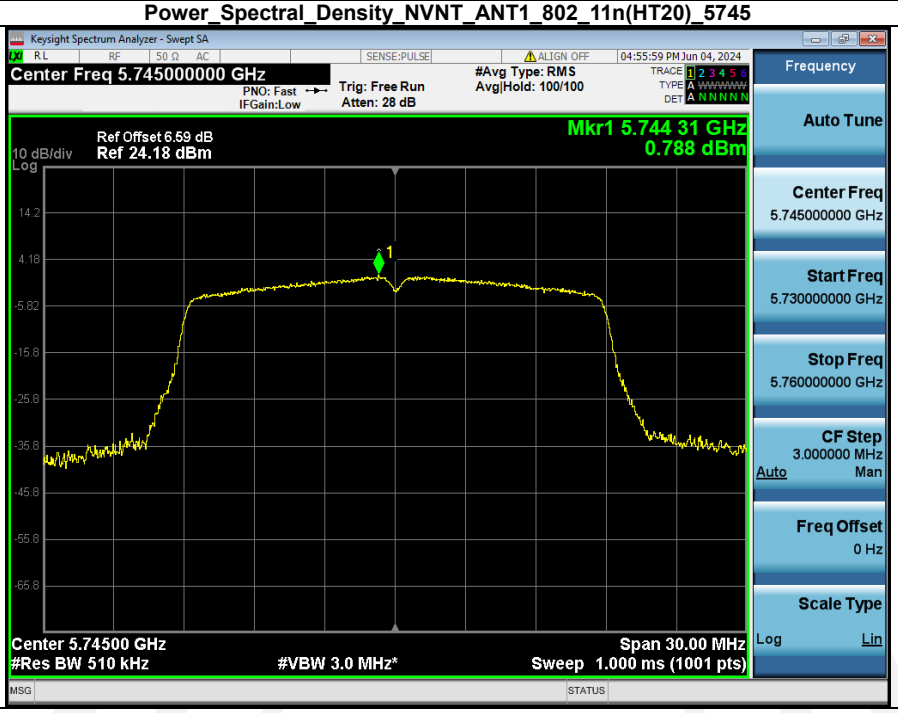
Modulation	Frequency (MHz)	PSD_SA(dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
802.11a	5745.00	1.33	0.12	0	1.36	30	Pass
802.11a	5785.00	0.02	0.00	0	-0.07	30	Pass
802.11a	5825.00	0.16	0.12	0	0.20	30	Pass
802.11n(HT20)	5745.00	0.79	0.13	0	0.83	30	Pass
802.11n(HT20)	5785.00	-0.28	0.13	0	-0.24	30	Pass
802.11n(HT20)	5825.00	-0.29	0.13	0	-0.25	30	Pass
802.11ac(VHT20)	5745.00	0.38	0.00	0	0.30	30	Pass
802.11ac(VHT20)	5785.00	-0.33	0.13	0	-0.28	30	Pass
802.11ac(VHT20)	5825.00	0.11	0.13	0	0.15	30	Pass
802.11n(HT40)	5755.00	-2.38	0.26	0	-2.21	30	Pass
802.11n(HT40)	5795.00	-2.94	0.26	0	-2.77	30	Pass
802.11ac(VHT40)	5755.00	-2.80	0.26	0	-2.62	30	Pass
802.11ac(VHT40)	5795.00	-3.34	0.26	0	-3.17	30	Pass
802.11ac(VHT80)	5775.00	-6.68	0.51	0	-6.25	30	Pass

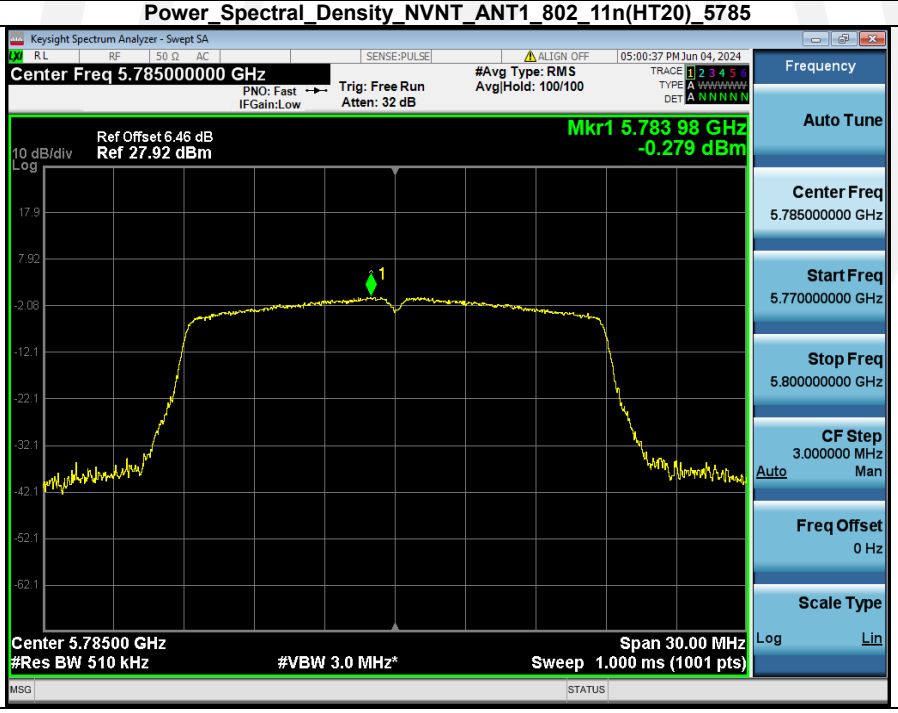
Power_Spectral_Density_NVNT_ANT1_802_11a_5745

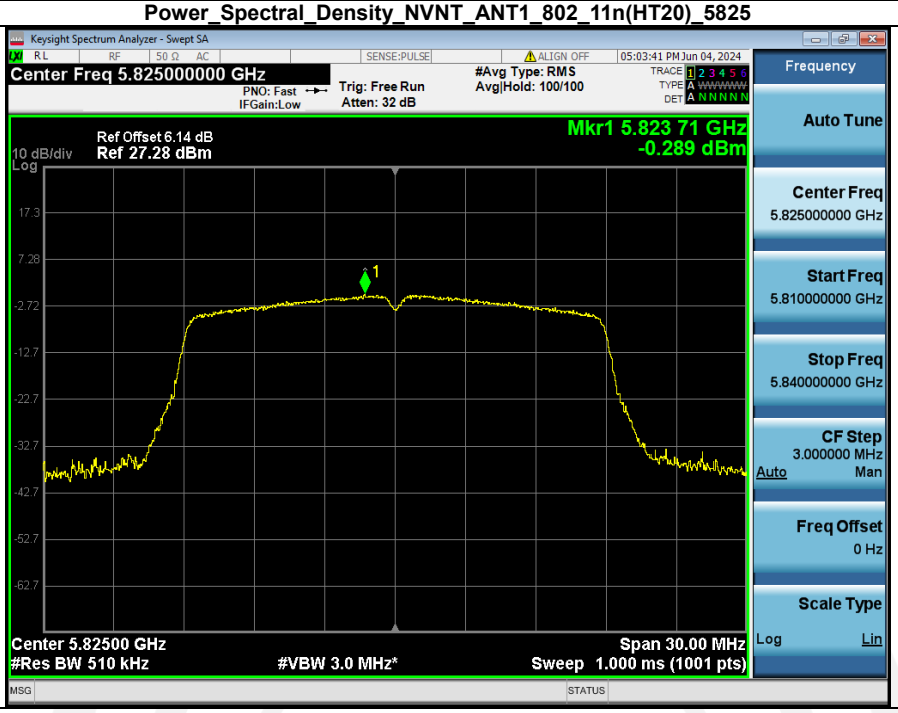


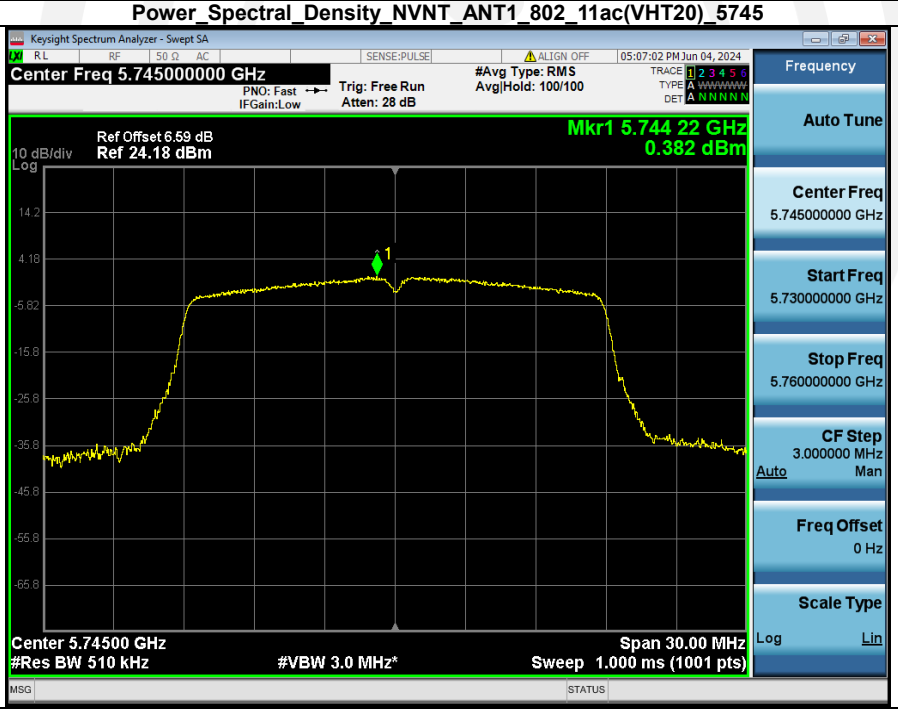
Power_Spectral_Density_NVNT_ANT1_802_11a_5785

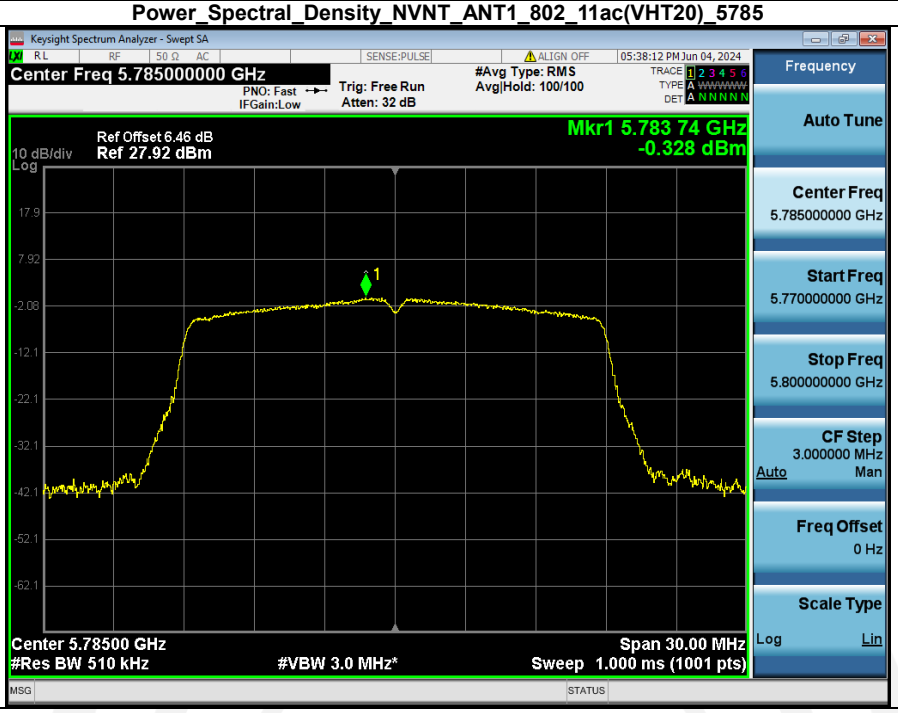

Power_Spectral_Density_NVNT_ANT1_802_11a_5825

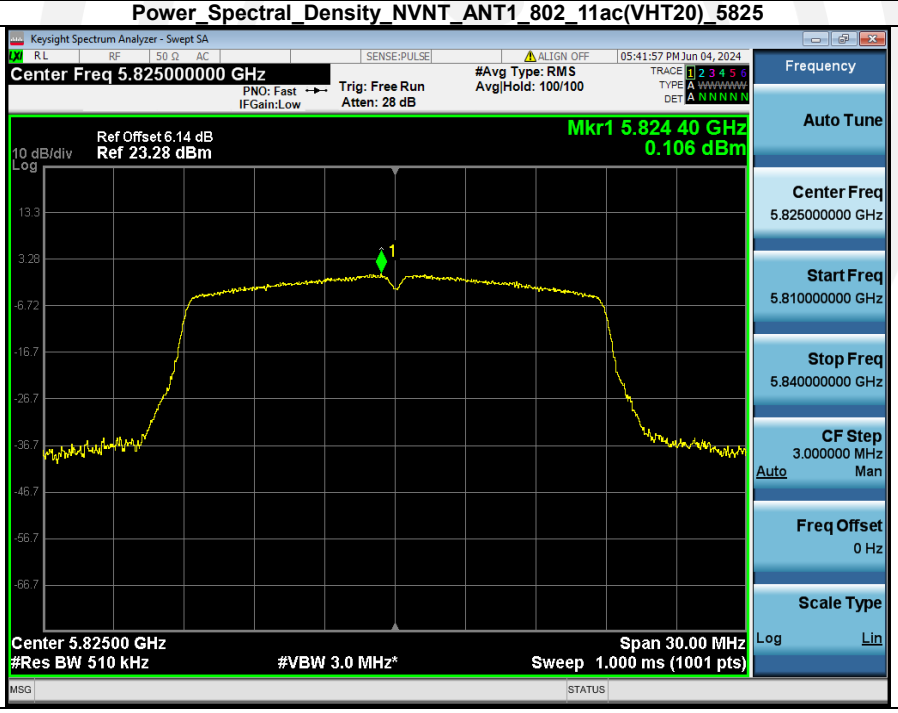

Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5745


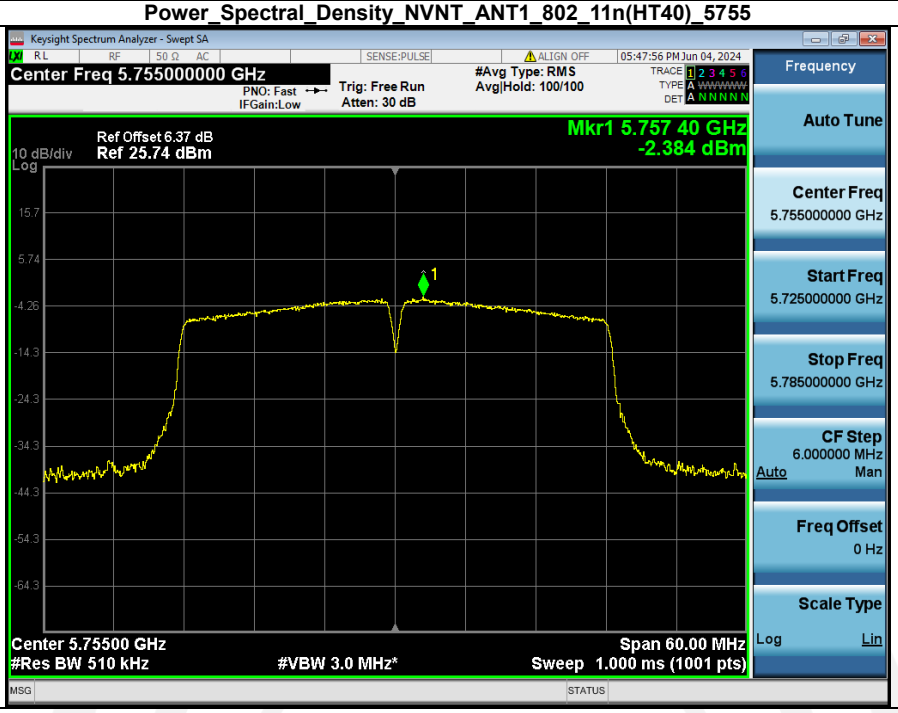
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5785


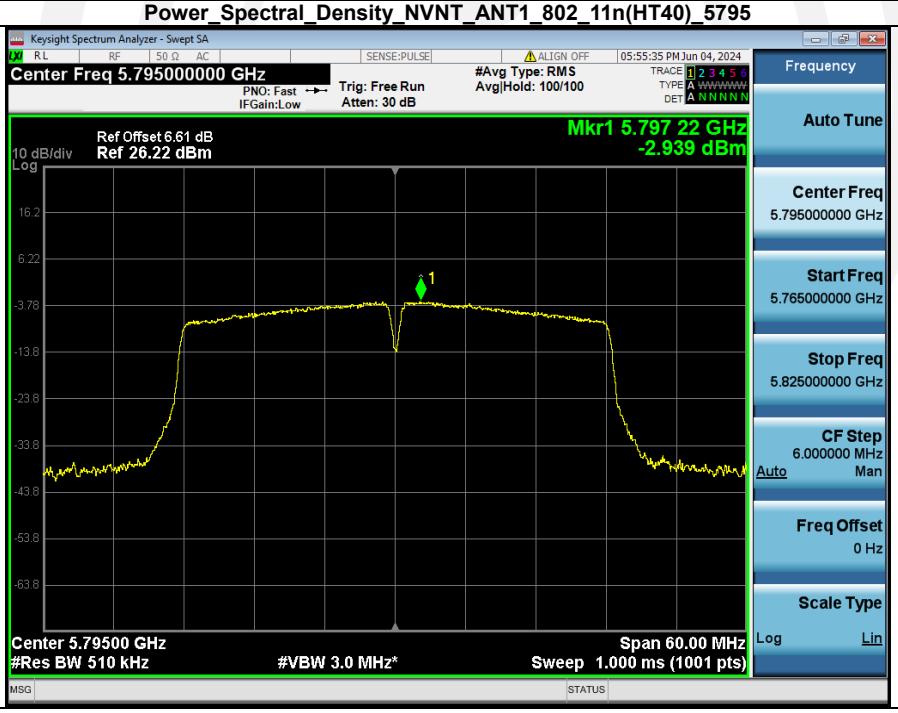
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5825


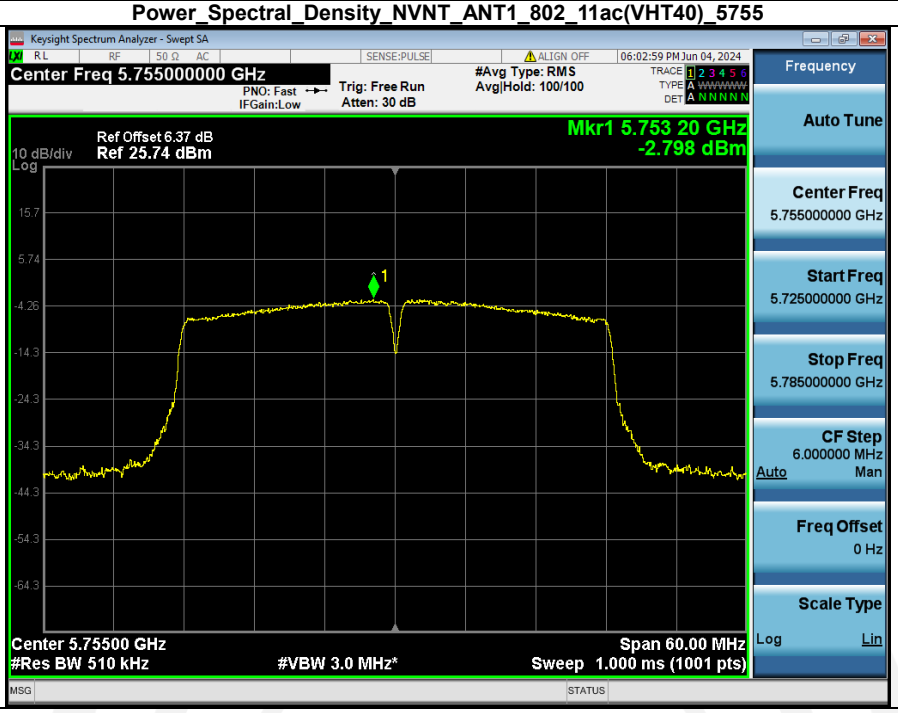
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5745


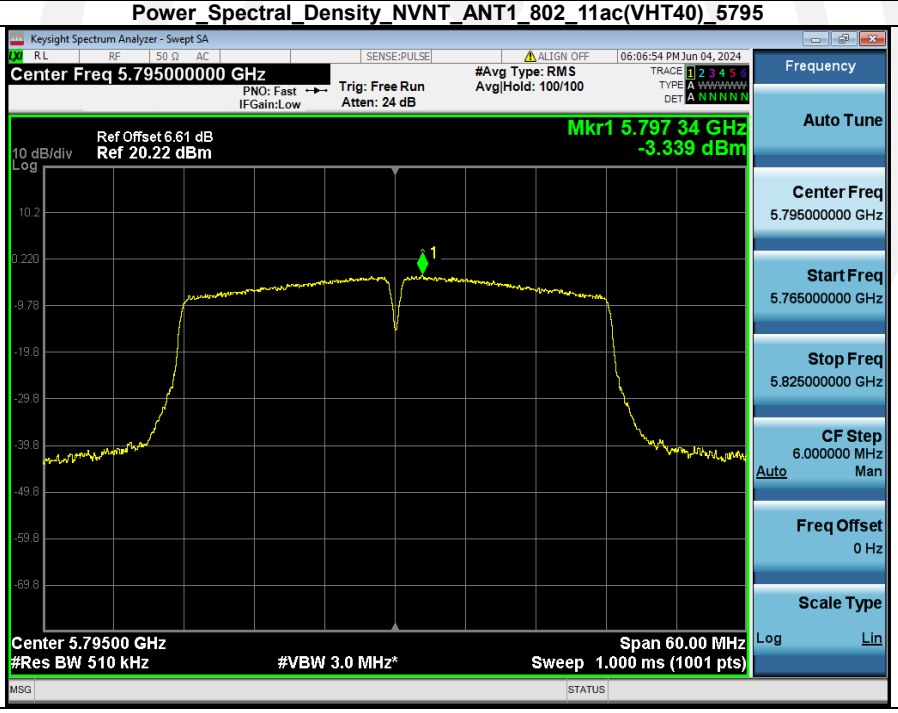
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5785


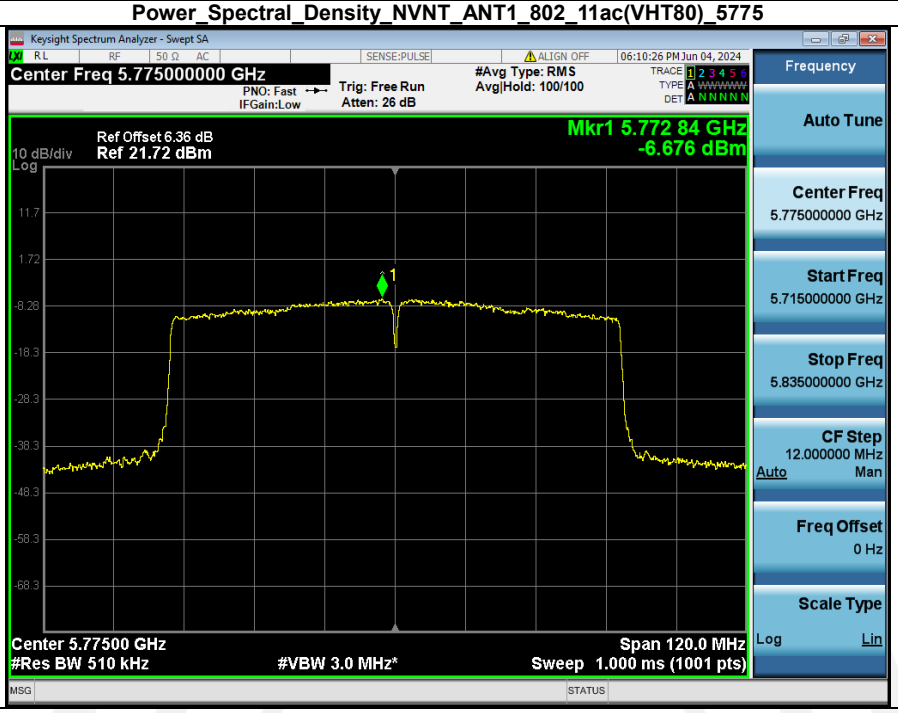
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5825


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5755


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5795


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5755


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5795


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5775


4.6 Band Edge

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407 and 15.205, RSS-Gen §8.9</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>68.2</td><td>Peak Value</td></tr>
</table>
Undesirable emission limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
</td></tr>
<tr><td>Test Procedure:</td><td>
a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
</td></tr>
<tr><td>Test setup:</td><td>Above 1GHz</td></tr>
</table>