

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	13.37	0.12	13.49	24	Pass
ANT1	802.11a	5300.00	13.38	0.12	13.50	24	Pass
ANT1	802.11a	5320.00	13.19	0.12	13.31	24	Pass
ANT1	802.11n(HT20)	5260.00	12.68	0.00	12.68	24	Pass
ANT1	802.11n(HT20)	5300.00	12.63	0.13	12.76	24	Pass
ANT1	802.11n(HT20)	5320.00	12.67	0.00	12.67	24	Pass
ANT1	802.11ac(VHT20)	5260.00	12.69	0.00	12.69	24	Pass
ANT1	802.11ac(VHT20)	5300.00	12.63	0.13	12.76	24	Pass
ANT1	802.11ac(VHT20)	5320.00	12.68	0.13	12.81	24	Pass
ANT1	802.11n(HT40)	5270.00	12.69	0.26	12.95	24	Pass
ANT1	802.11n(HT40)	5310.00	12.71	0.26	12.97	24	Pass
ANT1	802.11ac(VHT40)	5270.00	13.35	0.13	13.48	24	Pass
ANT1	802.11ac(VHT40)	5310.00	13.11	0.26	13.37	24	Pass
ANT1	802.11ac(VHT80)	5290.00	12.39	0.51	12.90	24	Pass
ANT1	802.11ax(HE20)	5260.00	12.76	0.13	12.89	24	Pass
ANT1	802.11ax(HE20)	5300.00	12.75	0.13	12.88	24	Pass
ANT1	802.11ax(HE20)	5320.00	12.73	0.13	12.86	24	Pass
ANT1	802.11ax(HE40)	5270.00	12.81	0.13	12.94	24	Pass
ANT1	802.11ax(HE40)	5310.00	12.71	0.26	12.97	24	Pass
ANT1	802.11ax(HE80)	5290.00	12.44	0.51	12.95	24	Pass

Antenna	Modulation	Frequency(MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5260.00	97.18	0.12
ANT1	802.11a	5300.00	97.22	0.12
ANT1	802.11a	5320.00	97.22	0.12
ANT1	802.11n(HT20)	5260.00	98.50	0.00
ANT1	802.11n(HT20)	5300.00	97.01	0.13
ANT1	802.11n(HT20)	5320.00	98.50	0.00
ANT1	802.11ac(VHT20)	5260.00	98.52	0.00
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	94.12	0.26
ANT1	802.11ac(VHT40)	5270.00	97.10	0.13
ANT1	802.11ac(VHT40)	5310.00	94.12	0.26
ANT1	802.11ac(VHT80)	5290.00	88.89	0.51
ANT1	802.11ax(HE20)	5260.00	97.01	0.13
ANT1	802.11ax(HE20)	5300.00	97.06	0.13
ANT1	802.11ax(HE20)	5320.00	97.06	0.13
ANT1	802.11ax(HE40)	5270.00	97.10	0.13
ANT1	802.11ax(HE40)	5310.00	94.12	0.26
ANT1	802.11ax(HE80)	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	13.22	0.12	13.34	24	Pass
ANT1	802.11a	5600	11.77	0.12	11.89	24	Pass
ANT1	802.11a	5700.00	12.91	0.12	13.03	24	Pass
ANT1	802.11n(HT20)	5500	12.34	0.13	12.47	24	Pass
ANT1	802.11n(HT20)	5600	11.09	0.00	11.09	24	Pass
ANT1	802.11n(HT20)	5700.00	12.35	0.13	12.48	24	Pass
ANT1	802.11ac(VHT20)	5500	12.14	0.00	12.14	24	Pass
ANT1	802.11ac(VHT20)	5600	11.12	0.13	11.25	24	Pass
ANT1	802.11ac(VHT20)	5700.00	12.32	0.00	12.32	24	Pass
ANT1	802.11n(HT40)	5510	11.96	0.26	12.22	24	Pass
ANT1	802.11n(HT40)	5590	11.04	0.26	11.30	24	Pass
ANT1	802.11n(HT40)	5670	12.68	0.26	12.94	24	Pass
ANT1	802.11ac(VHT40)	5510	12.32	0.13	12.45	24	Pass
ANT1	802.11ac(VHT40)	5590	11.49	0.26	11.75	24	Pass
ANT1	802.11ac(VHT40)	5670	12.66	0.13	12.79	24	Pass
ANT1	802.11ac(VHT80)	5530	11.21	0.51	11.72	24	Pass
ANT1	802.11ac(VHT80)	5610	11.15	0.51	11.66	24	Pass
ANT1	802.11ax(HE20)	5500.00	12.09	0.13	12.22	24	Pass
ANT1	802.11ax(HE20)	5600.00	11.24	0.00	11.24	24	Pass
ANT1	802.11ax(HE20)	5700.00	12.37	0.13	12.50	24	Pass
ANT1	802.11ax(HE40)	5510.00	12.34	0.13	12.47	24	Pass
ANT1	802.11ax(HE40)	5590.00	11.06	0.26	11.32	24	Pass
ANT1	802.11ax(HE40)	5670.00	12.66	0.26	12.92	24	Pass
ANT1	802.11ax(HE80)	5530.00	11.15	0.51	11.66	24	Pass
ANT1	802.11ax(HE80)	5610.00	11.11	0.51	11.62	24	Pass

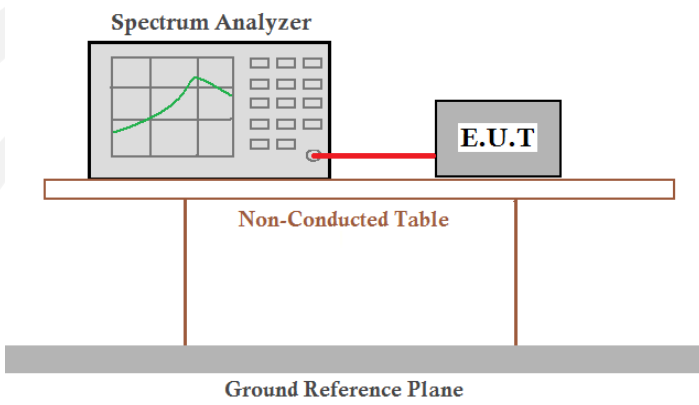
Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5500	97.22	0.12
ANT1	802.11a	5600	97.18	0.12
ANT1	802.11a	5700.00	97.18	0.12
ANT1	802.11n(HT20)	5500	97.01	0.13
ANT1	802.11n(HT20)	5600	98.50	0.00
ANT1	802.11n(HT20)	5700.00	97.01	0.13
ANT1	802.11ac(VHT20)	5500	98.52	0.00
ANT1	802.11ac(VHT20)	5600	97.01	0.13
ANT1	802.11ac(VHT20)	5700.00	98.52	0.00
ANT1	802.11n(HT40)	5510	94.12	0.26
ANT1	802.11n(HT40)	5590	94.12	0.26
ANT1	802.11n(HT40)	5670	94.12	0.26
ANT1	802.11ac(VHT40)	5510	97.10	0.13
ANT1	802.11ac(VHT40)	5590	94.12	0.26
ANT1	802.11ac(VHT40)	5670	97.10	0.13
ANT1	802.11ac(VHT80)	5530	88.89	0.51
ANT1	802.11ac(VHT80)	5610	88.89	0.51
ANT1	802.11ax(HE20)	5500.00	97.01	0.13
ANT1	802.11ax(HE20)	5600.00	98.52	0.00
ANT1	802.11ax(HE20)	5700.00	97.06	0.13
ANT1	802.11ax(HE40)	5510.00	97.10	0.13
ANT1	802.11ax(HE40)	5590.00	94.12	0.26
ANT1	802.11ax(HE40)	5670.00	94.12	0.26
ANT1	802.11ax(HE80)	5530.00	88.89	0.51
ANT1	802.11ax(HE80)	5610.00	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	11.85	0.48	12.33	30	Pass
ANT1	802.11a	5785.00	10.93	0.41	11.34	30	Pass
ANT1	802.11a	5825.00	11.05	0.47	11.52	30	Pass
ANT1	802.11n(HT20)	5745.00	11.10	0.56	11.66	30	Pass
ANT1	802.11n(HT20)	5785.00	10.87	0.49	11.36	30	Pass
ANT1	802.11n(HT20)	5825.00	11.13	0.55	11.68	30	Pass
ANT1	802.11ac(VHT20)	5745.00	12.19	0.49	12.68	30	Pass
ANT1	802.11ac(VHT20)	5785.00	11.33	0.55	11.88	30	Pass
ANT1	802.11ac(VHT20)	5825.00	11.08	0.48	11.56	30	Pass
ANT1	802.11n(HT40)	5755.00	11.73	0.91	12.64	30	Pass
ANT1	802.11n(HT40)	5795.00	12.06	0.29	12.35	30	Pass
ANT1	802.11ac(VHT40)	5755.00	11.66	0.91	12.57	30	Pass
ANT1	802.11ac(VHT40)	5795.00	11.42	1.03	12.45	30	Pass
ANT1	802.11ac(VHT80)	5775.00	10.30	1.66	11.96	30	Pass
ANT1	802.11ax(HE20)	5745.00	10.99	0.62	11.61	30	Pass
ANT1	802.11ax(HE20)	5785.00	10.30	0.55	10.85	30	Pass
ANT1	802.11ax(HE20)	5825.00	10.61	0.49	11.10	30	Pass
ANT1	802.11ax(HE40)	5755.00	10.43	1.03	11.46	30	Pass
ANT1	802.11ax(HE40)	5795.00	10.48	1.06	11.54	30	Pass
ANT1	802.11ax(HE80)	5775.00	9.45	1.66	11.11	30	Pass

Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5745.00	89.61	0.48
ANT1	802.11a	5785.00	90.91	0.41
ANT1	802.11a	5825.00	89.74	0.47
ANT1	802.11n(HT20)	5745.00	87.88	0.56
ANT1	802.11n(HT20)	5785.00	89.39	0.49
ANT1	802.11n(HT20)	5825.00	88.06	0.55
ANT1	802.11ac(VHT20)	5745.00	89.39	0.49
ANT1	802.11ac(VHT20)	5785.00	88.06	0.55
ANT1	802.11ac(VHT20)	5825.00	89.55	0.48
ANT1	802.11n(HT40)	5755.00	81.08	0.91
ANT1	802.11n(HT40)	5795.00	93.55	0.29
ANT1	802.11ac(VHT40)	5755.00	81.08	0.91
ANT1	802.11ac(VHT40)	5795.00	78.95	1.03
ANT1	802.11ac(VHT80)	5775.00	68.18	1.66
ANT1	802.11ax(HE20)	5745.00	86.76	0.62
ANT1	802.11ax(HE20)	5785.00	88.06	0.55
ANT1	802.11ax(HE20)	5825.00	89.39	0.49
ANT1	802.11ax(HE40)	5755.00	78.95	1.03
ANT1	802.11ax(HE40)	5795.00	78.38	1.06
ANT1	802.11ax(HE80)	5775.00	68.18	1.66

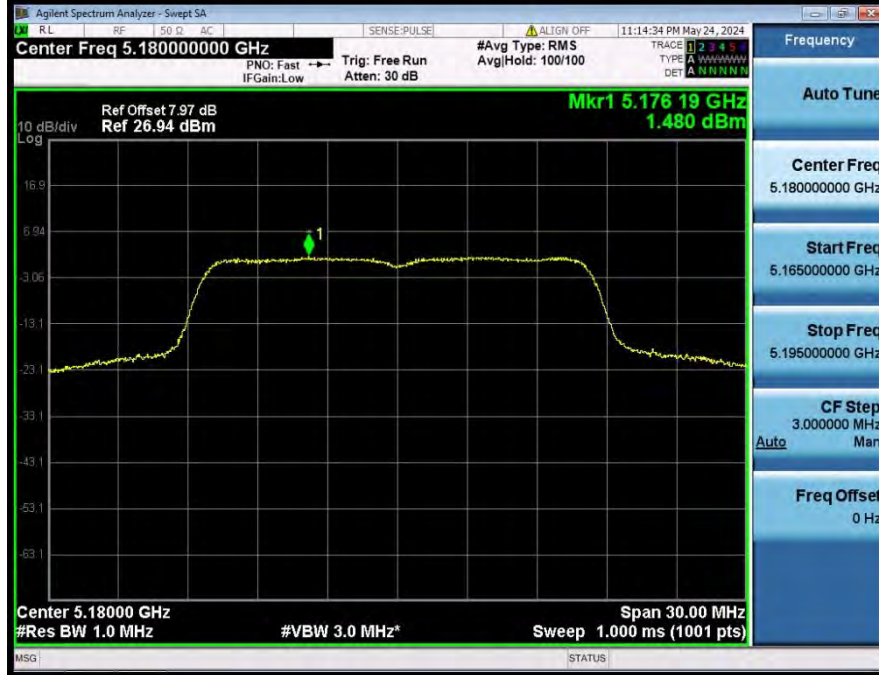
4.5 Power Spectral Density

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. $\leq 11.00 \text{ dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2. $\leq 30.00 \text{ dBm/500KHz}$ 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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E2) 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 E2)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

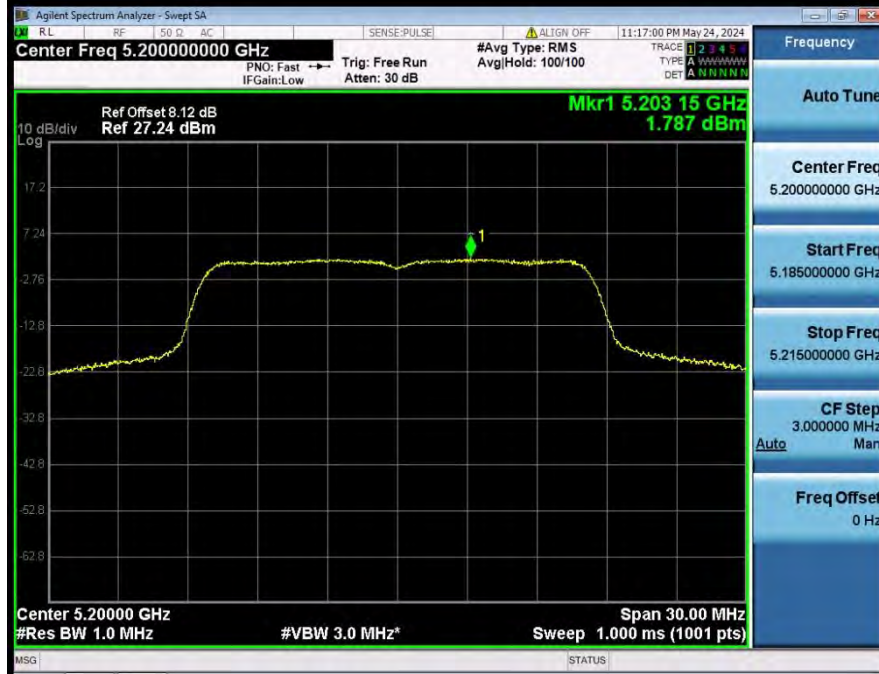
Measurement Data**Band 1 (5150-5250 MHz)**

Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	FCC Limit (dBm)	IC Limit (dBm)	Result
ANT1	802.11a	5180.00	1.48	0.41	1.89	11	10	Pass
ANT1	802.11a	5200.00	1.79	0.41	2.20	11	10	Pass
ANT1	802.11a	5240.00	1.76	0.48	2.24	11	10	Pass
ANT1	802.11n(HT20)	5180.00	1.23	0.56	1.79	11	10	Pass
ANT1	802.11n(HT20)	5200.00	1.64	0.55	2.19	11	10	Pass
ANT1	802.11n(HT20)	5240.00	1.48	0.55	2.03	11	10	Pass
ANT1	802.11ac(VHT20)	5180.00	1.36	0.55	1.91	11	10	Pass
ANT1	802.11ac(VHT20)	5200.00	-2.36	0.55	-1.81	11	10	Pass
ANT1	802.11ac(VHT20)	5240.00	-1.78	0.55	-1.23	11	10	Pass
ANT1	802.11n(HT40)	5190.00	-5.12	1.06	-4.06	11	10	Pass
ANT1	802.11n(HT40)	5230.00	-4.61	0.94	-3.67	11	10	Pass
ANT1	802.11ac(VHT40)	5190.00	-4.91	0.91	-4.00	11	10	Pass
ANT1	802.11ac(VHT40)	5230.00	-4.31	0.29	-4.02	11	10	Pass
ANT1	802.11ac(VHT80)	5210.00	-5.98	1.66	-4.32	11	10	Pass
ANT1	802.11ax(HE20)	5180.00	1.30	0.13	1.43	11	10	Pass
ANT1	802.11ax(HE20)	5200.00	1.62	0.13	1.75	11	10	Pass
ANT1	802.11ax(HE20)	5240.00	1.45	0.13	1.58	11	10	Pass
ANT1	802.11ax(HE40)	5190.00	-1.23	0.26	-0.97	11	10	Pass
ANT1	802.11ax(HE40)	5230.00	-0.60	0.26	-0.34	11	10	Pass
ANT1	802.11ax(HE80)	5210.00	-4.66	0.51	-4.15	11	10	Pass

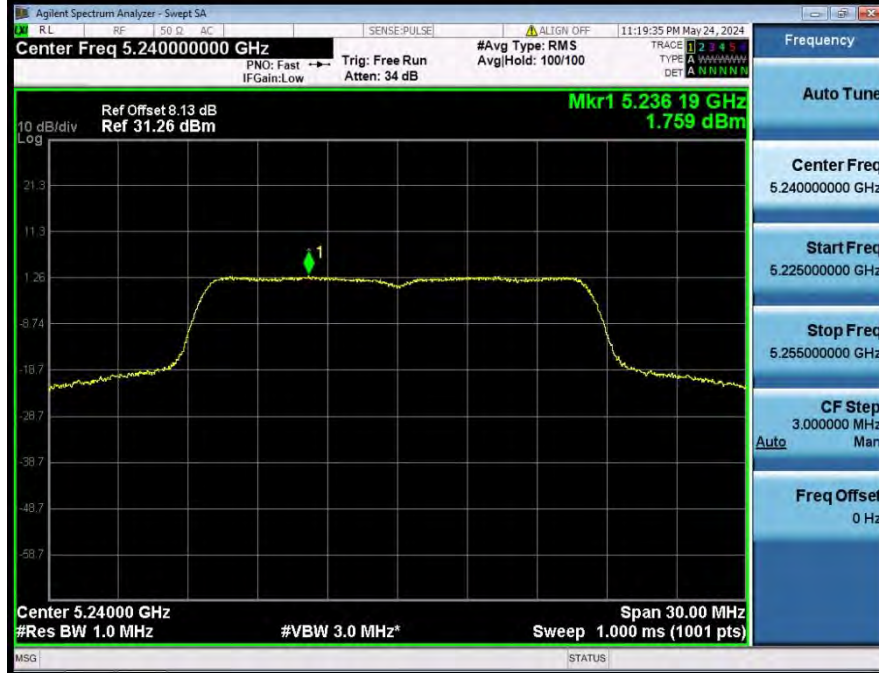
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Power_Spectral_Density_NVNT_ANT1_802_11a_5240



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)_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

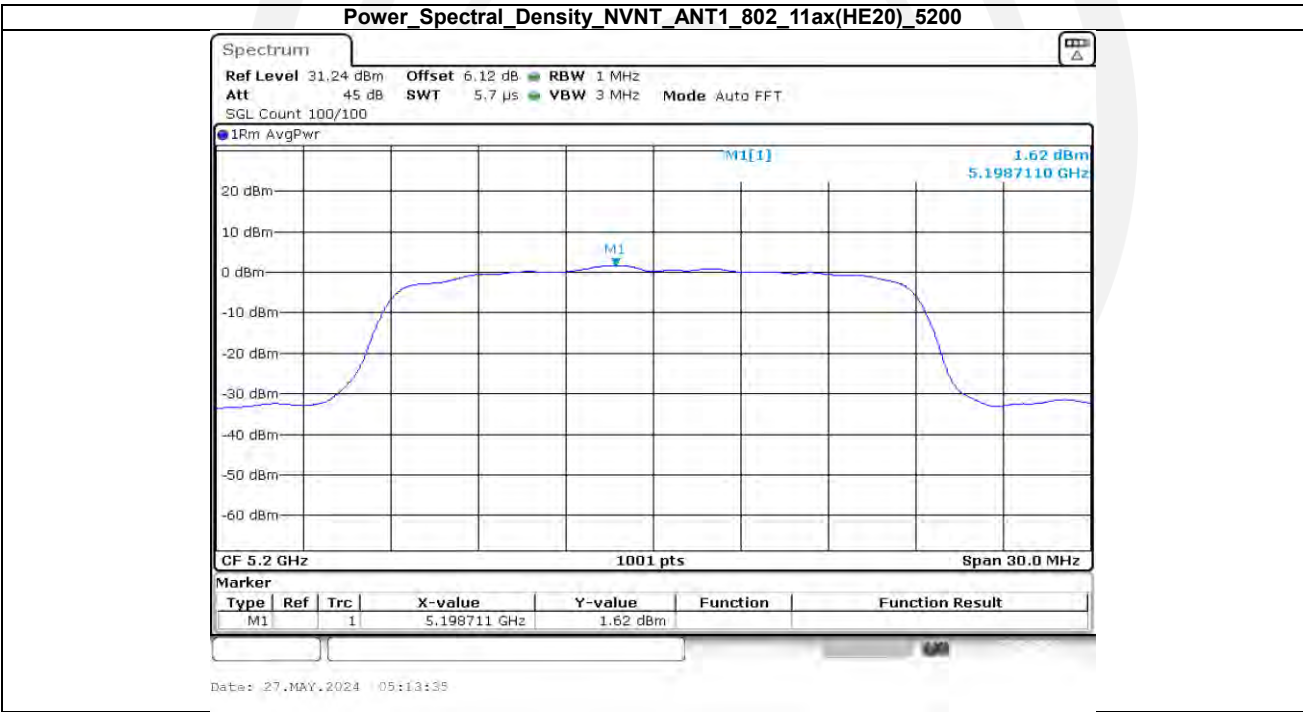
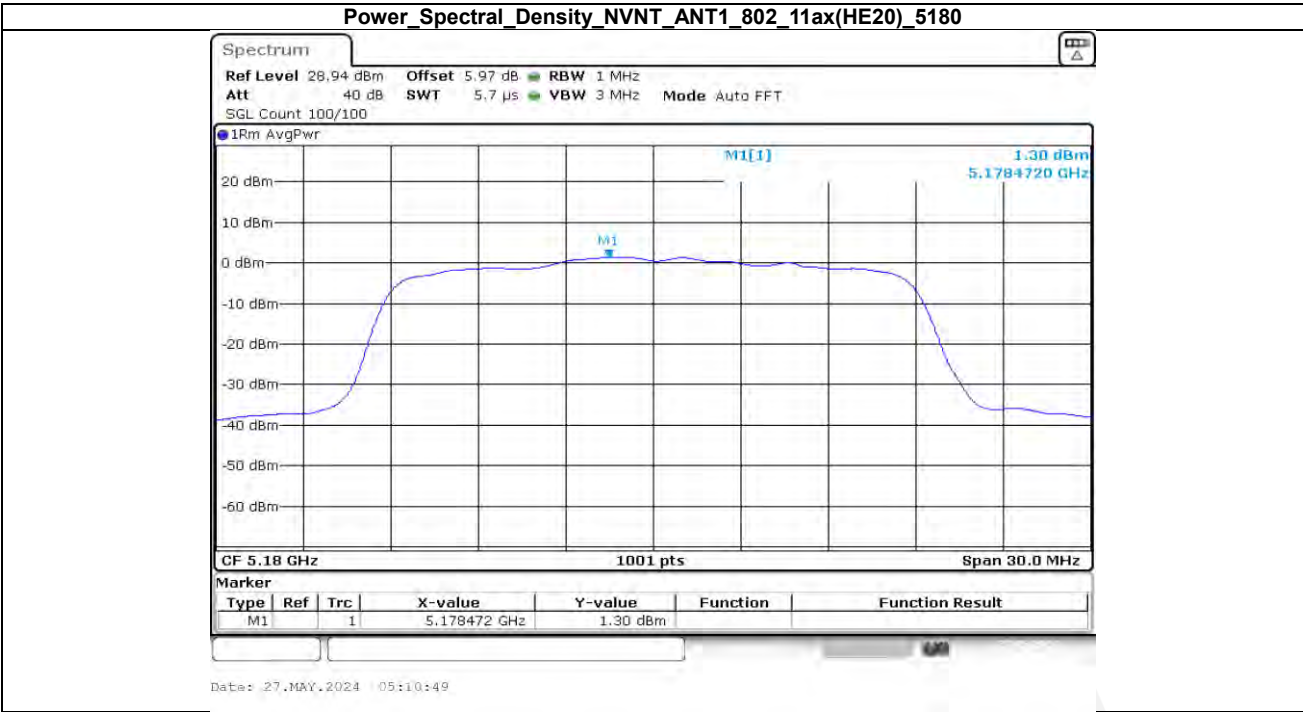


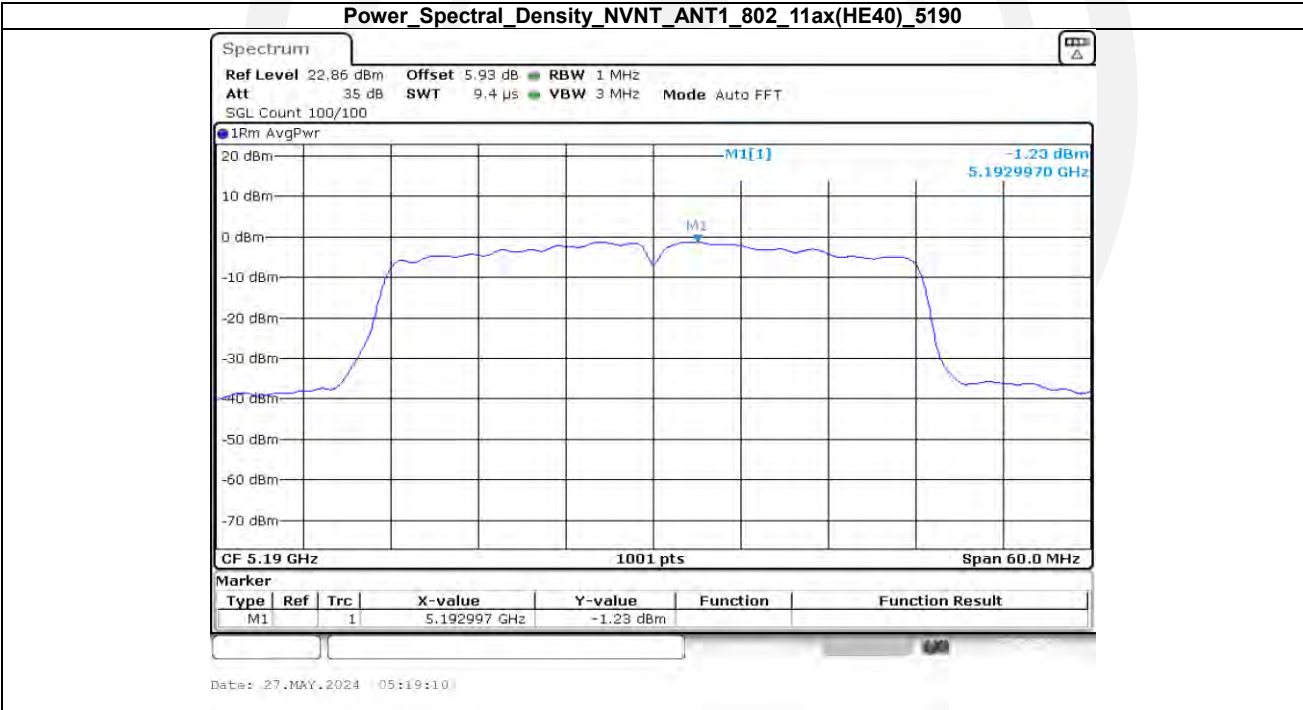
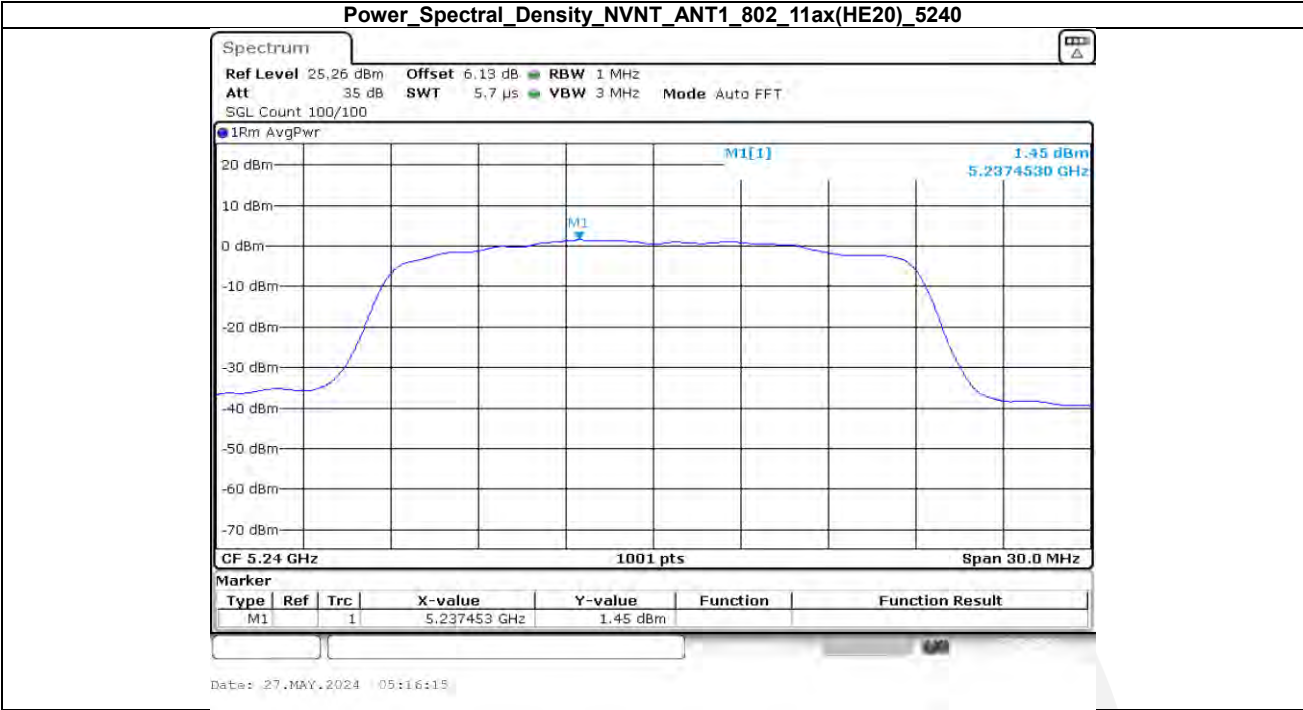
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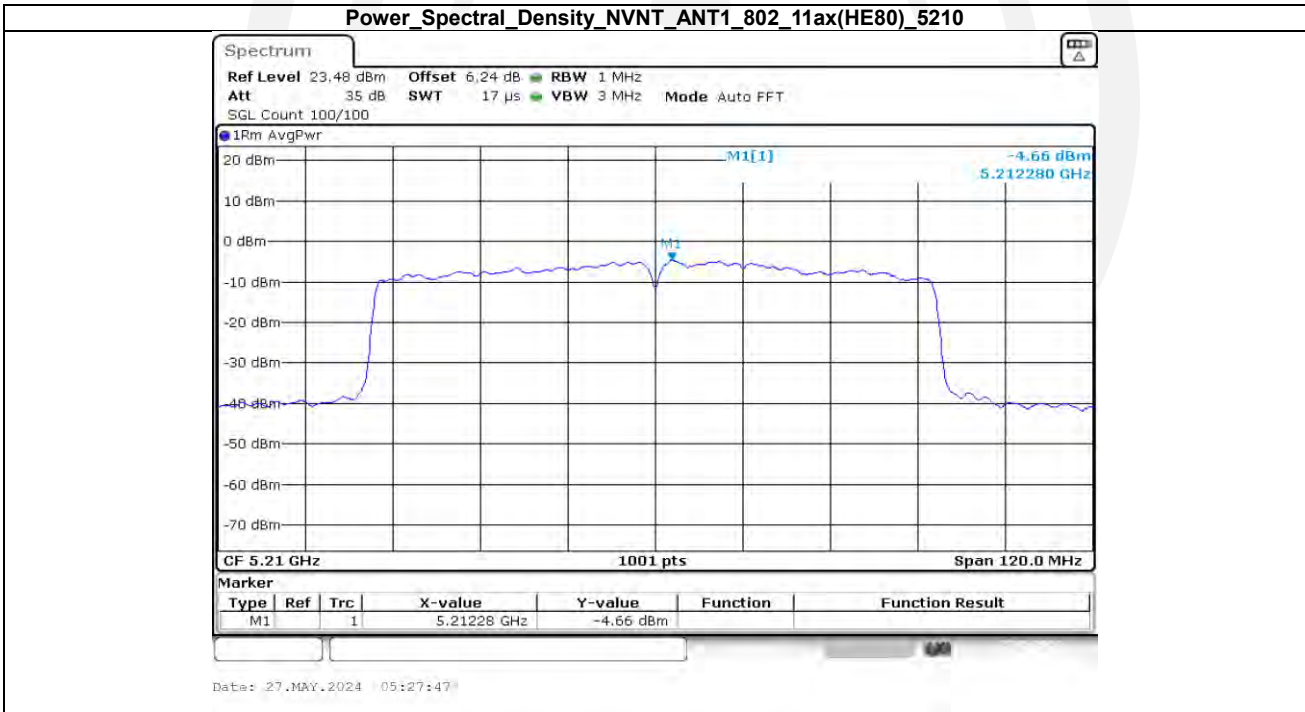
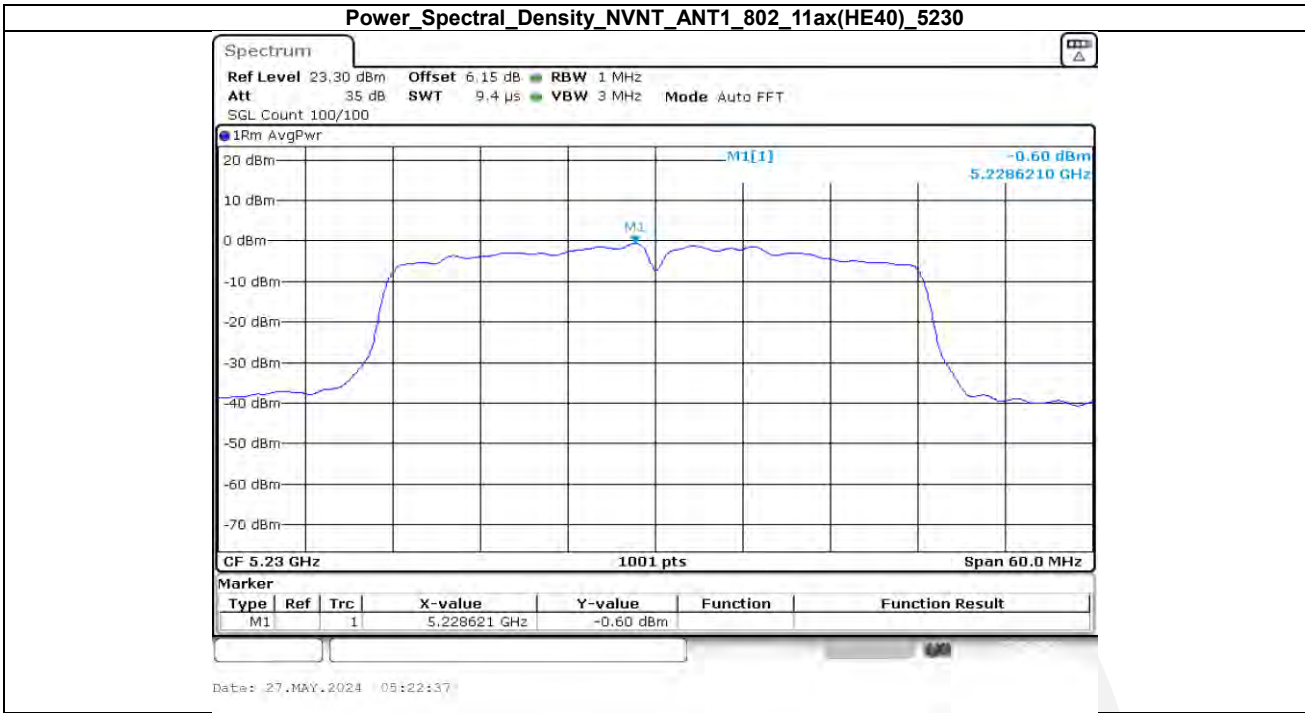


Power Spectral Density NVNT_ANT1_802_11ac(VHT80)_5210



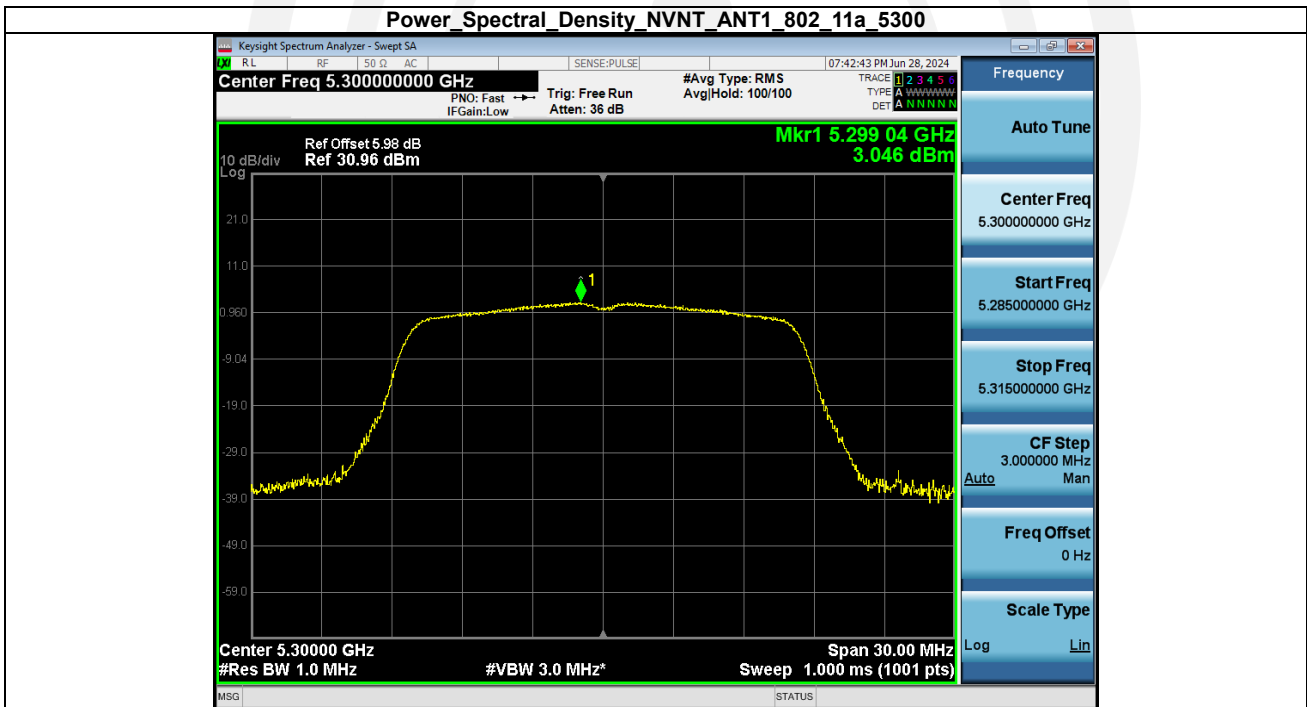
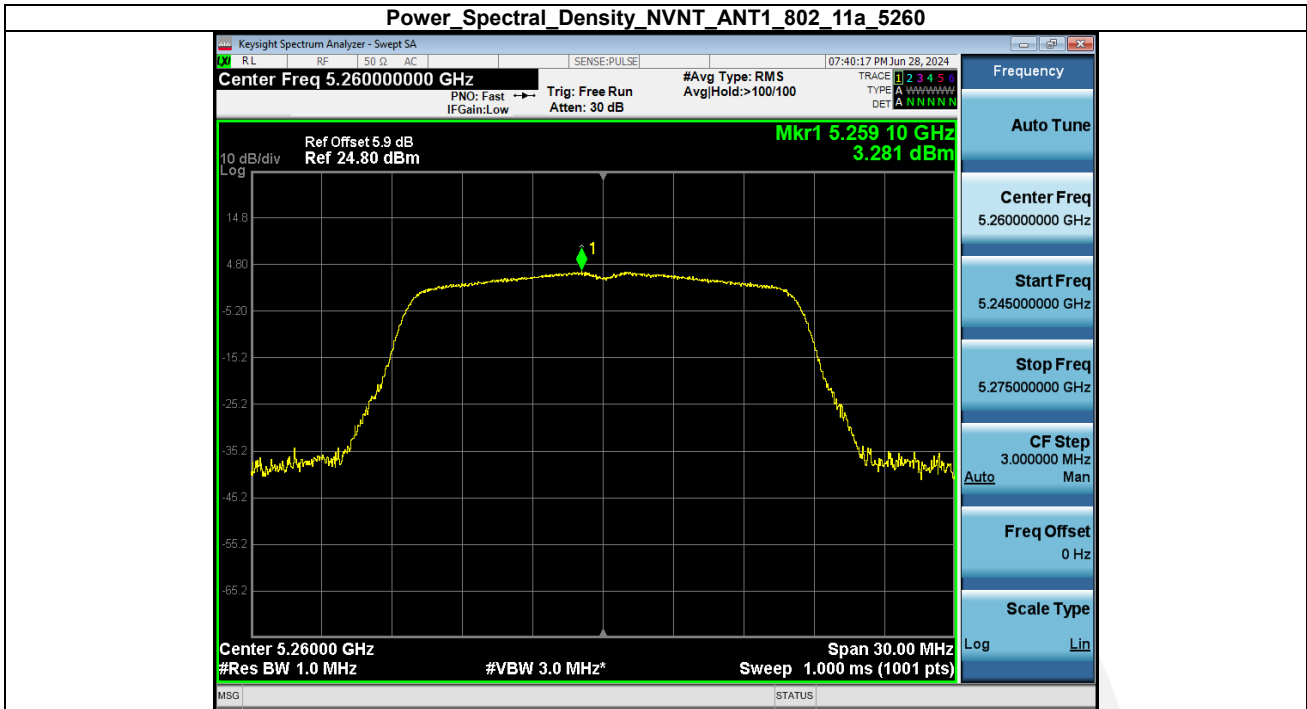


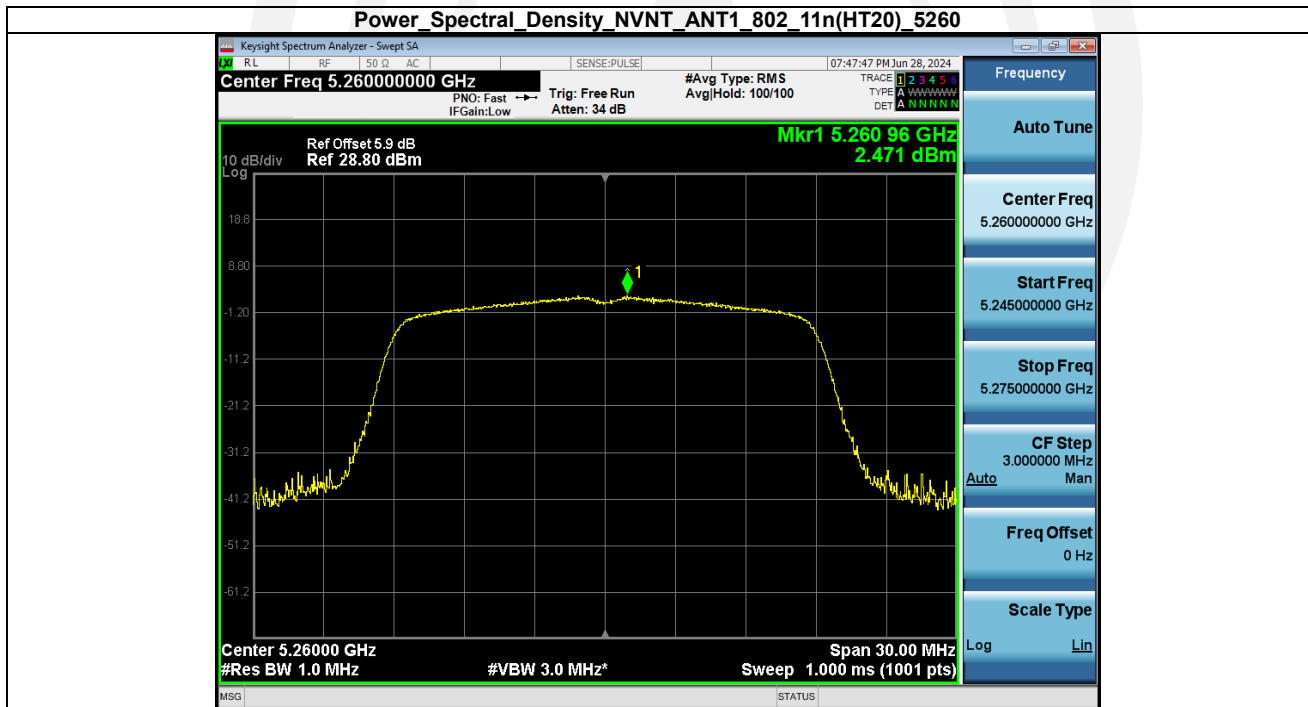
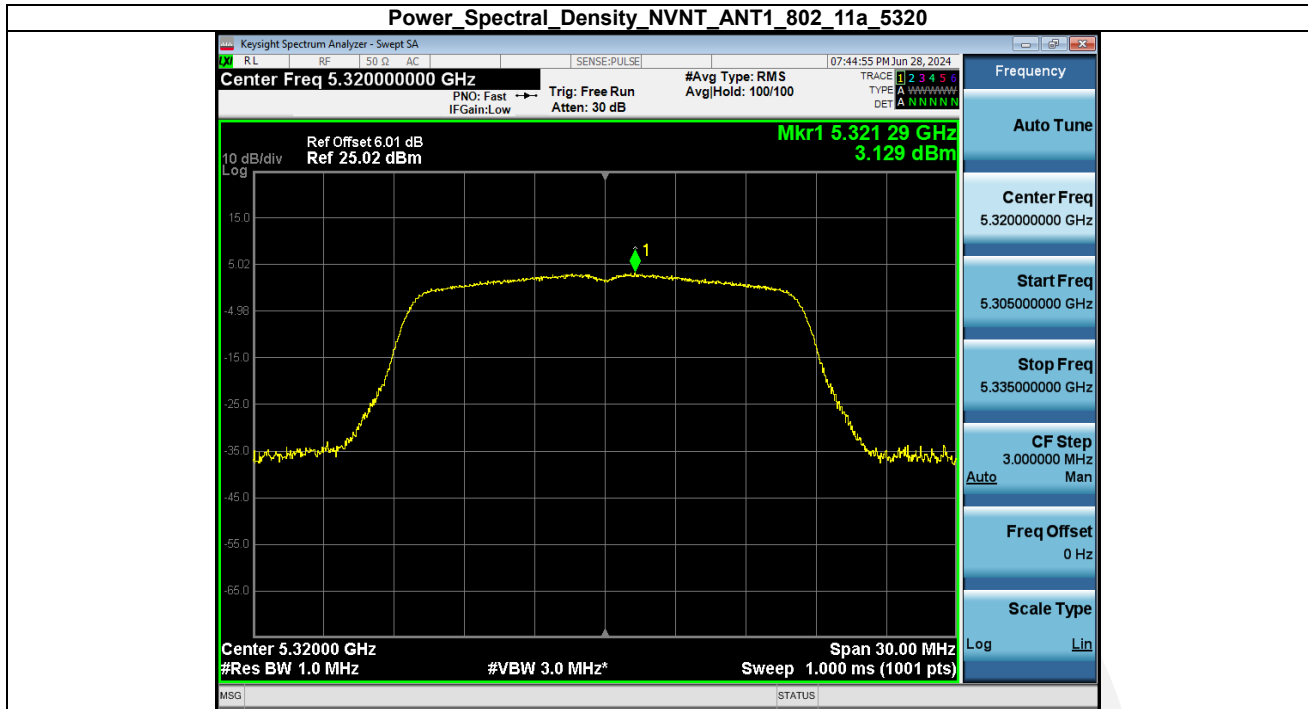


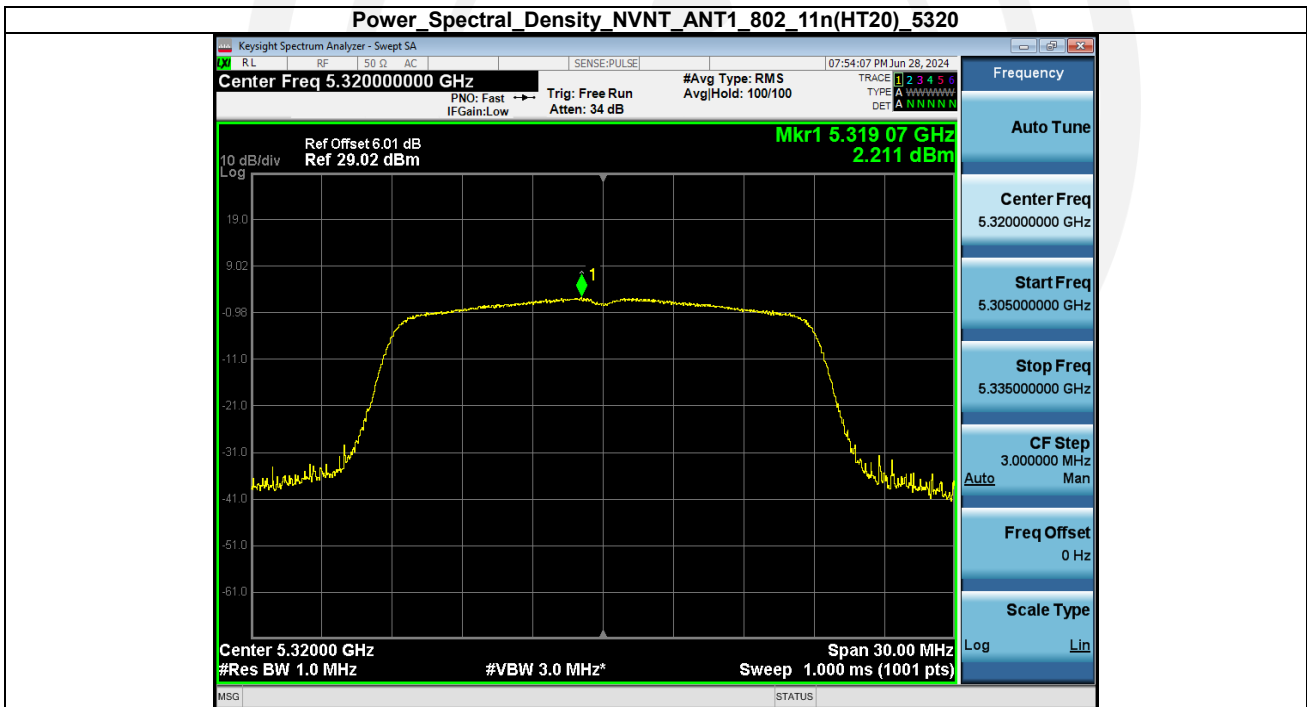
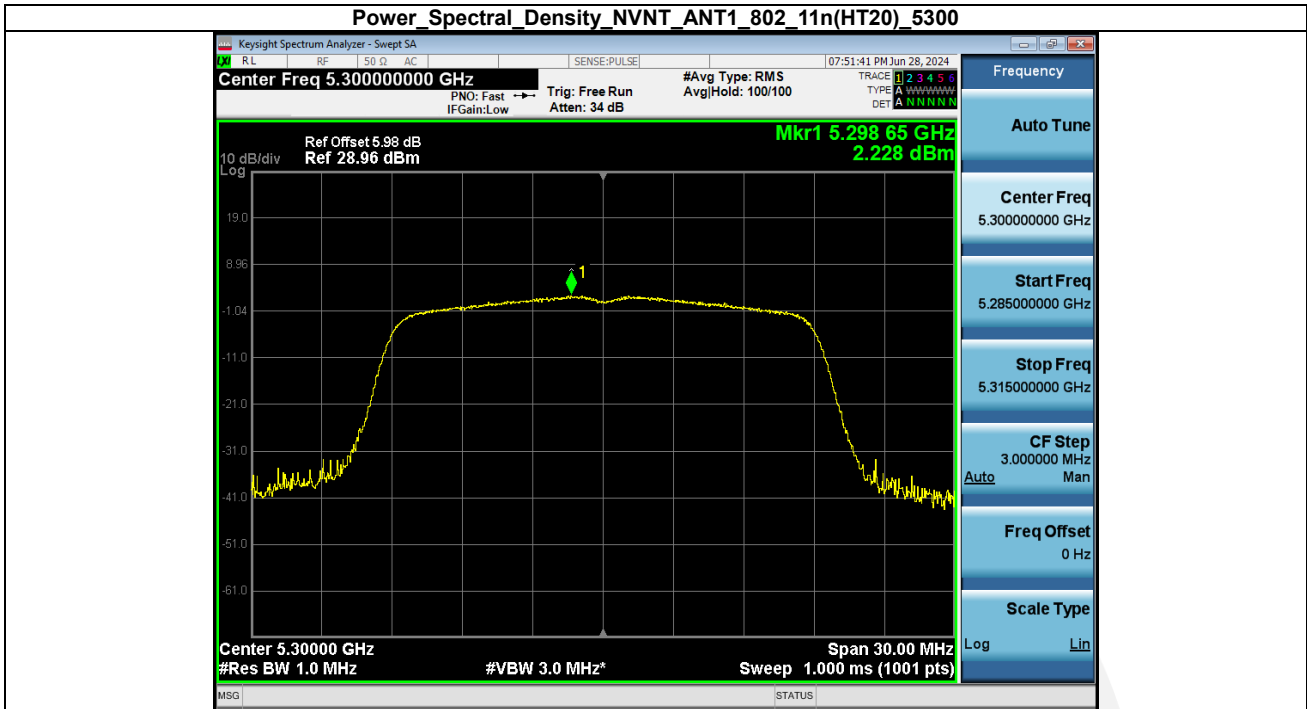


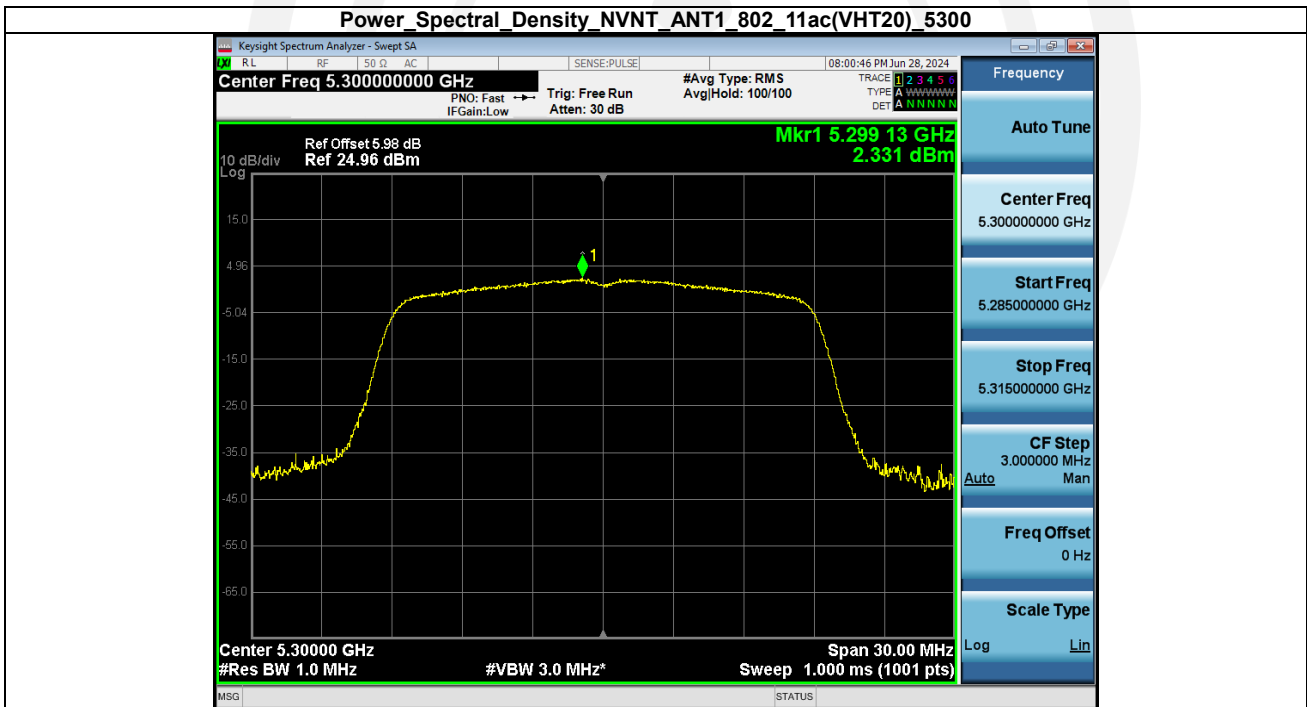
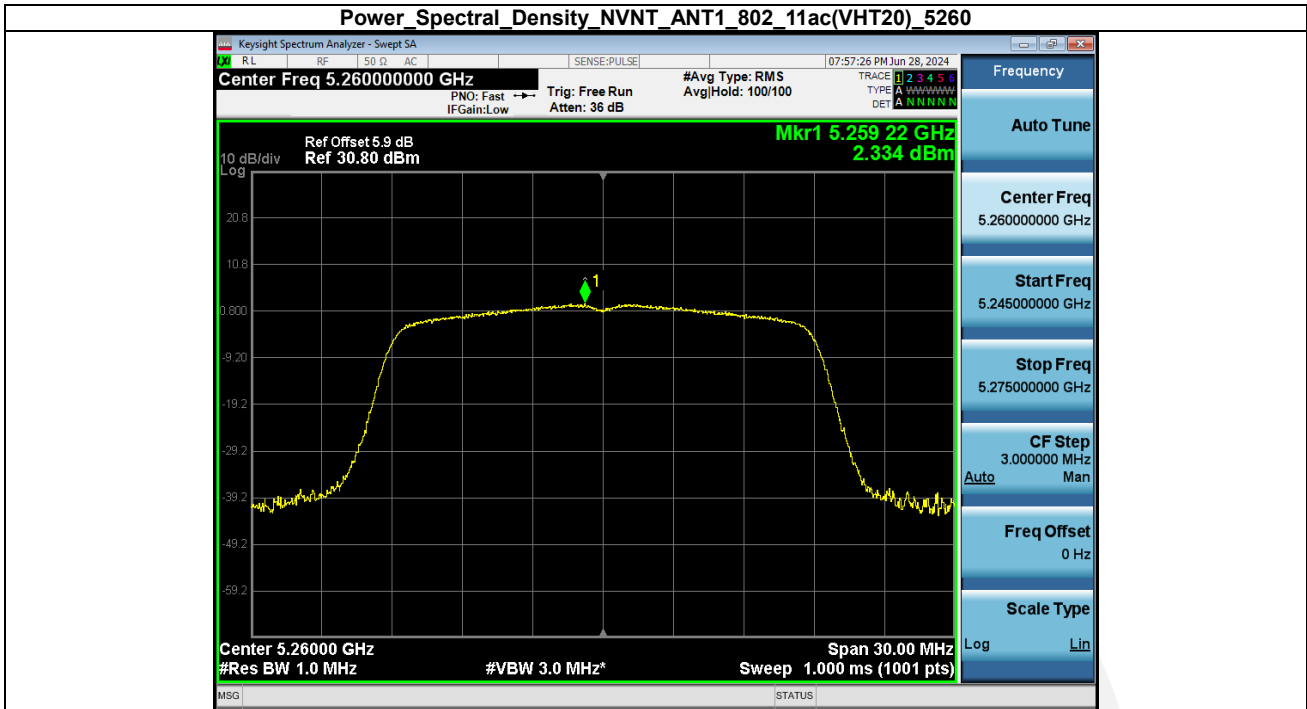
Band 2 (5260-5320 MHz):

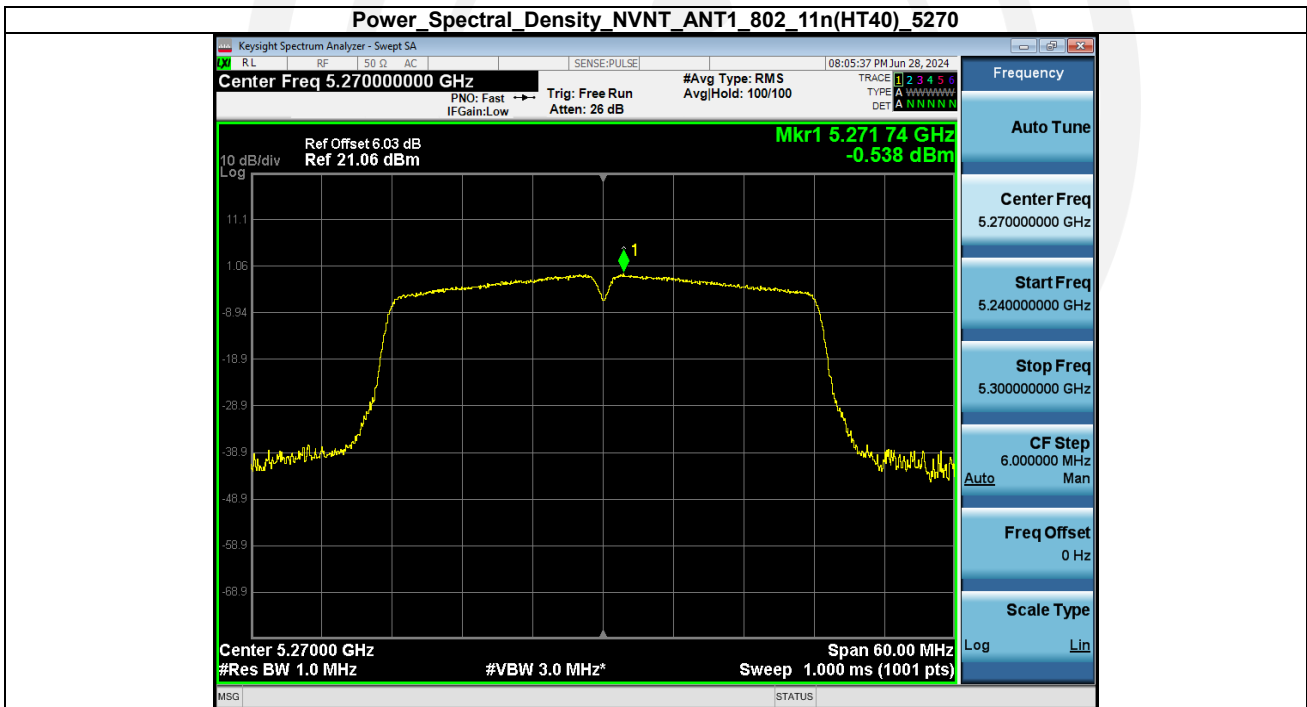
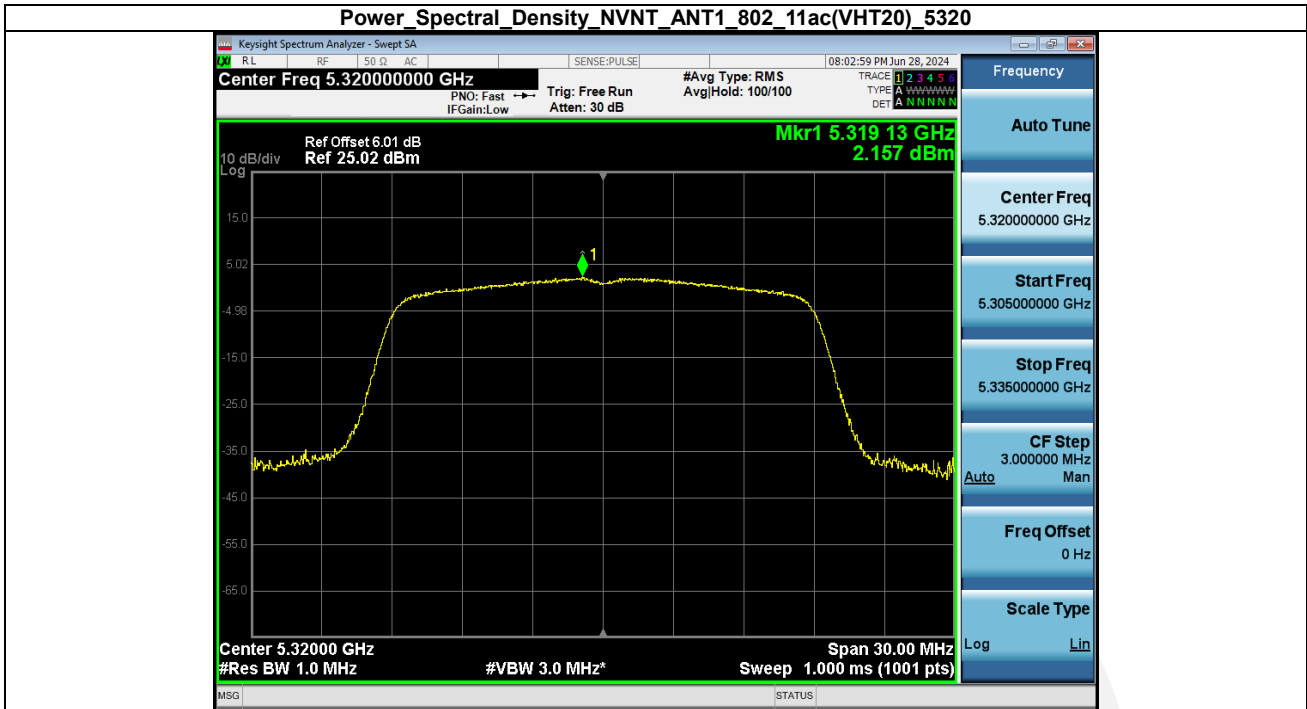
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	3.28	0.12	3.40	11	Pass
NVNT	ANT1	802.11a	5300.00	3.05	0.12	3.17	11	Pass
NVNT	ANT1	802.11a	5320.00	3.13	0.12	3.25	11	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	2.47	0.00	2.47	11	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	2.23	0.13	2.36	11	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	2.21	0.00	2.21	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	2.33	0.00	2.33	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	2.33	0.13	2.46	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	2.16	0.13	2.29	11	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	-0.54	0.26	-0.28	11	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	-0.54	0.26	-0.28	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	-0.07	0.13	0.06	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	0.04	0.26	0.30	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	-3.94	0.51	-3.43	11	Pass
NVNT	ANT1	802.11ax(HE20)	5260.00	2.53	0.13	2.66	11	Pass
NVNT	ANT1	802.11ax(HE20)	5300.00	2.35	0.13	2.48	11	Pass
NVNT	ANT1	802.11ax(HE20)	5320.00	2.24	0.13	2.37	11	Pass
NVNT	ANT1	802.11ax(HE40)	5270.00	-0.51	0.13	-0.38	11	Pass
NVNT	ANT1	802.11ax(HE40)	5310.00	-0.59	0.26	-0.33	11	Pass
NVNT	ANT1	802.11ax(HE80)	5290.00	-4.00	0.51	-3.49	11	Pass

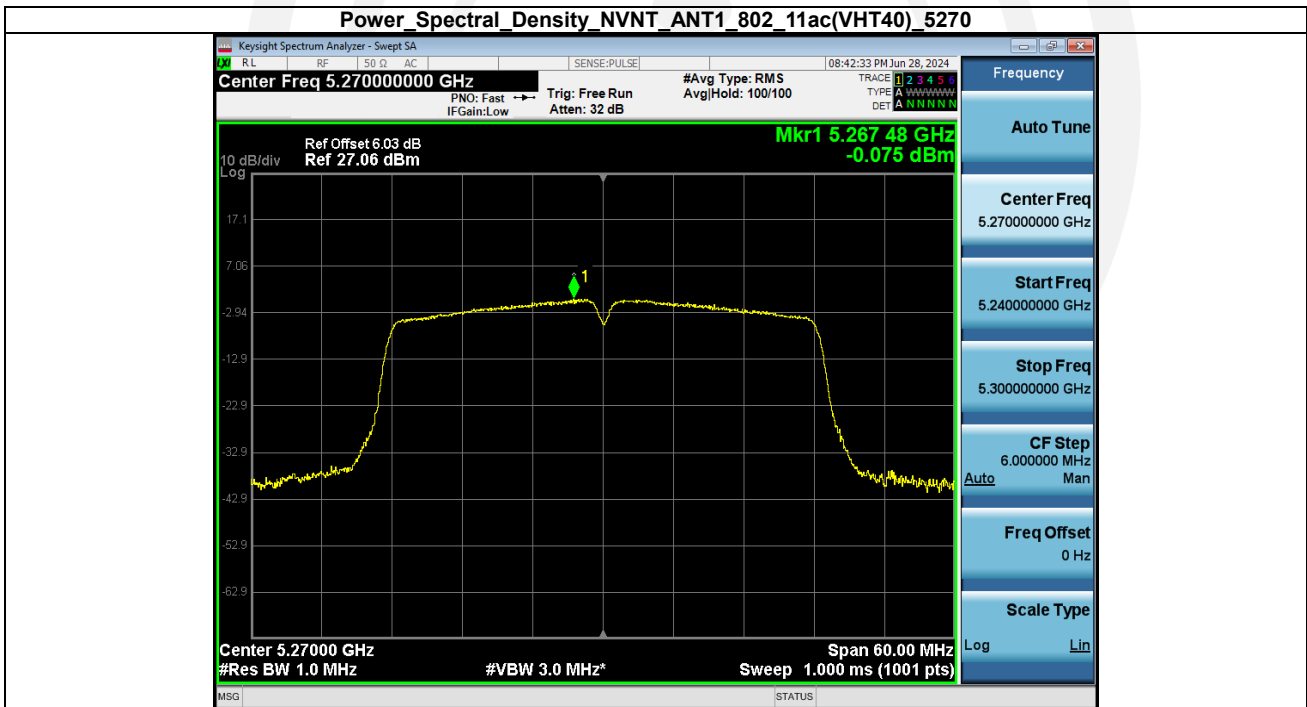
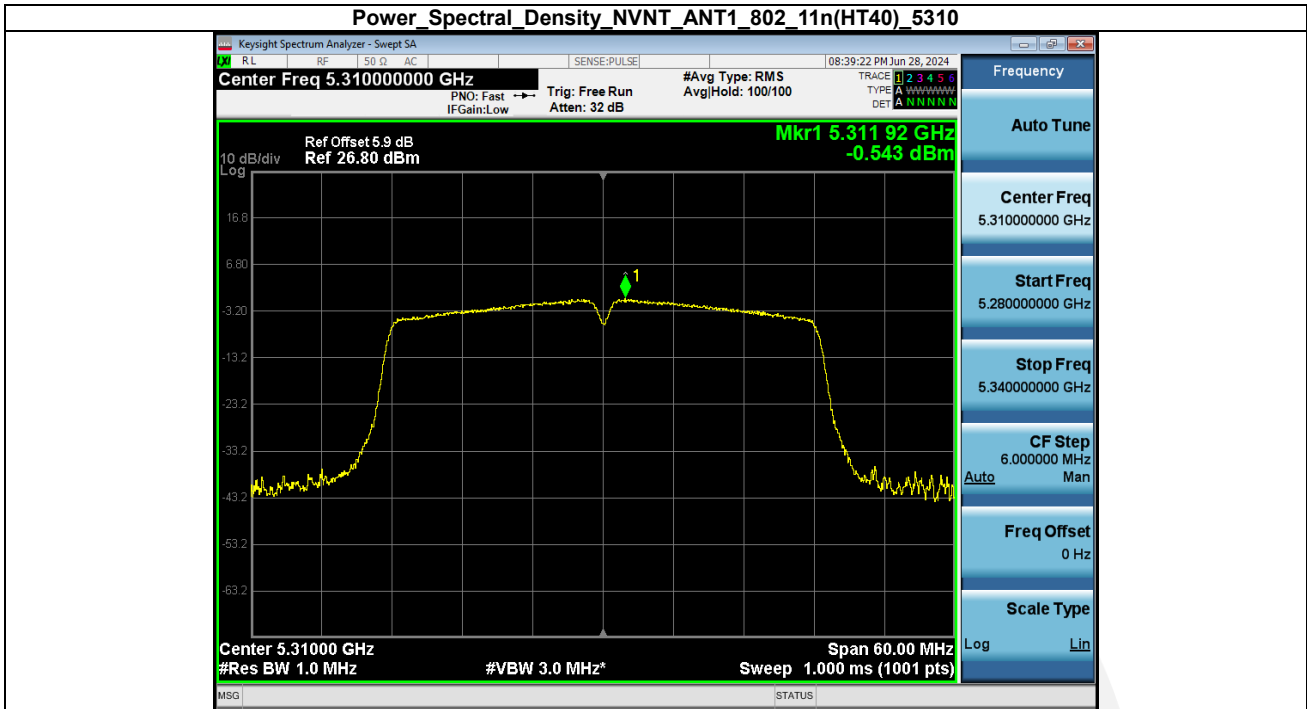


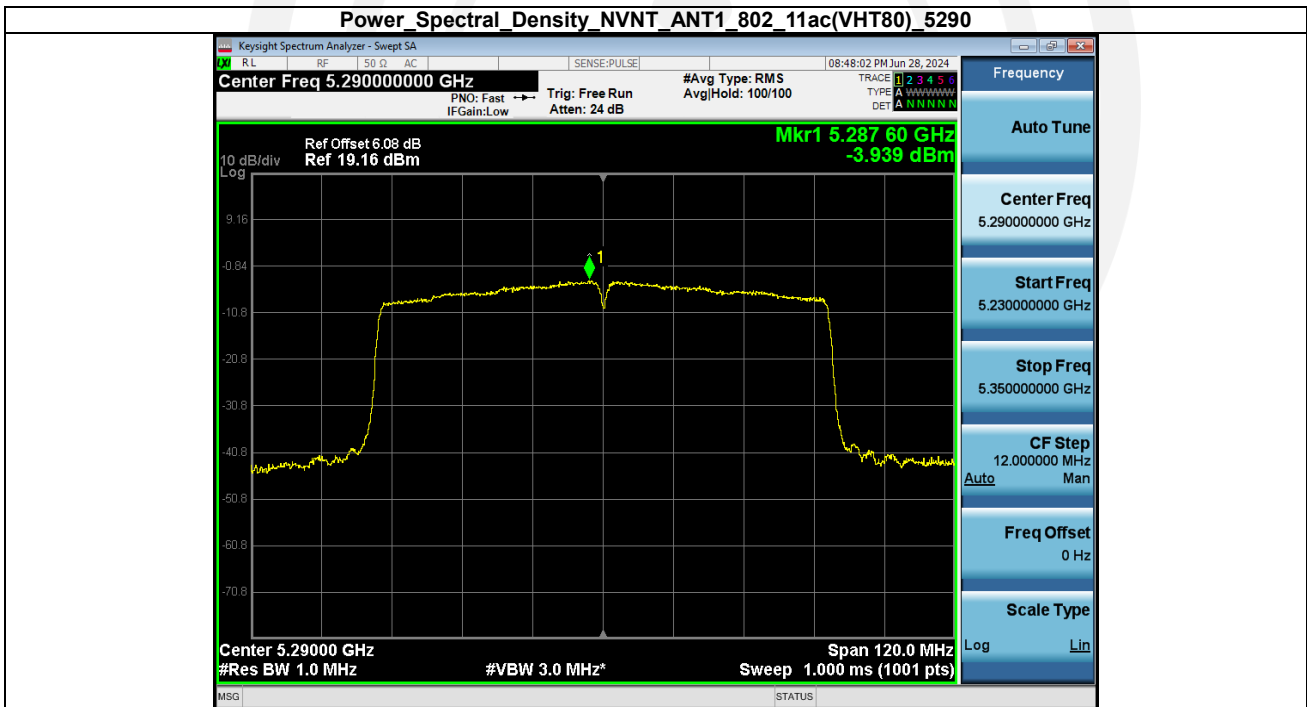
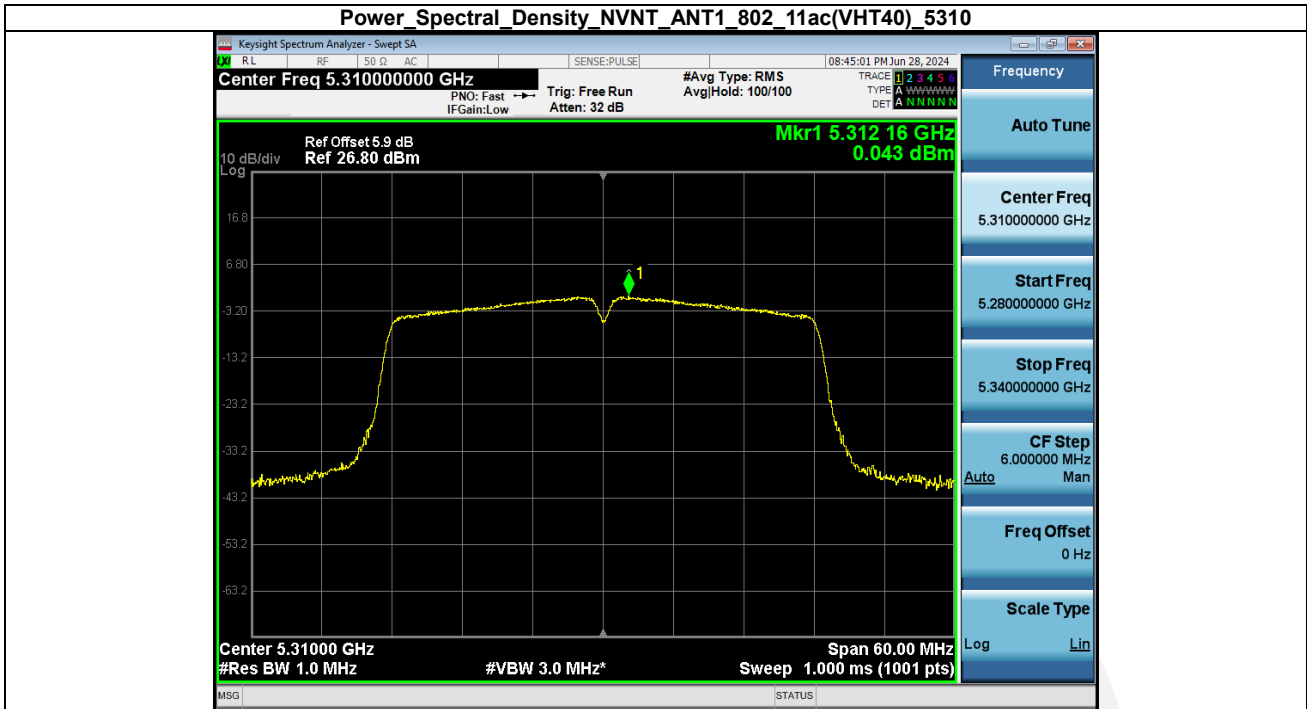


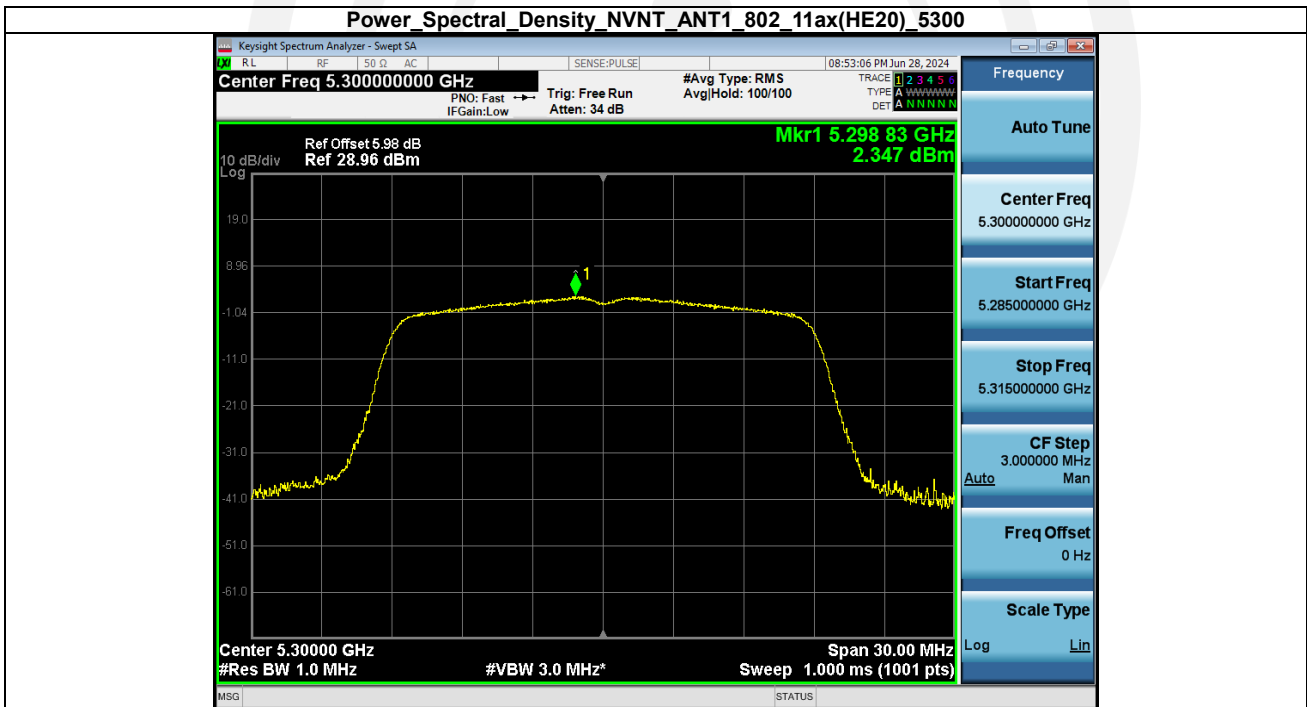
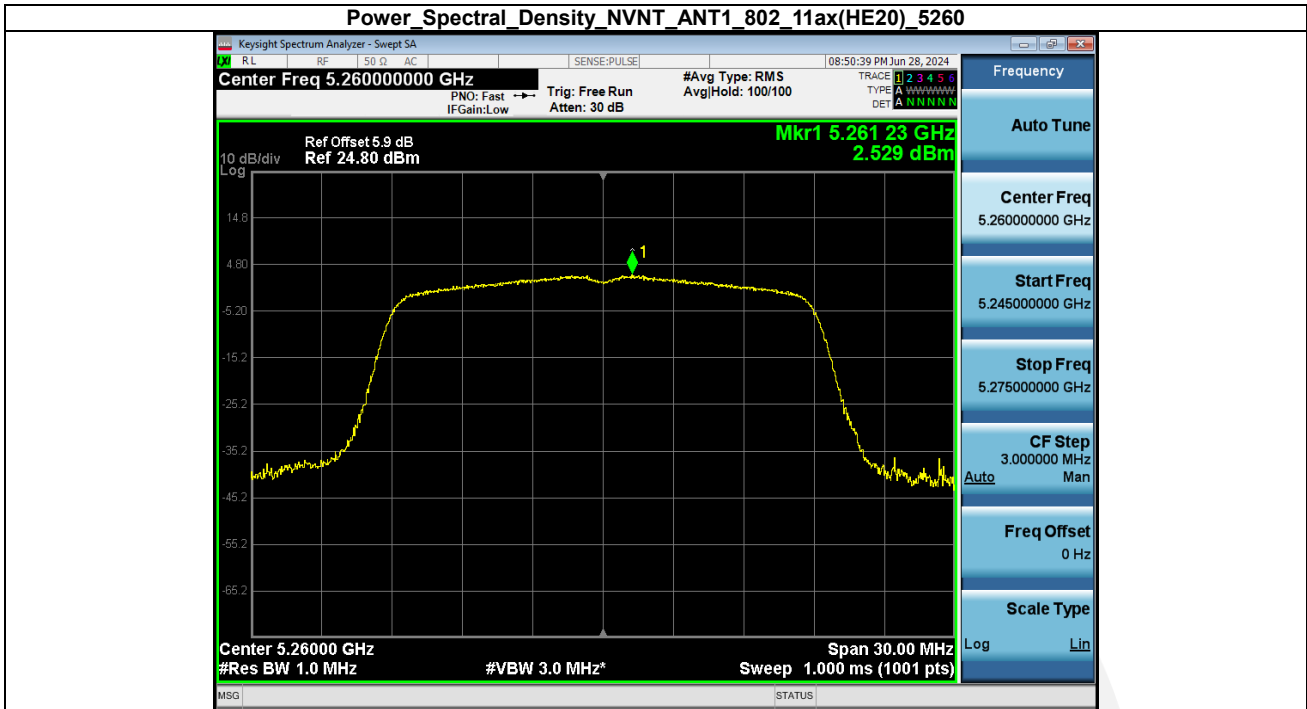


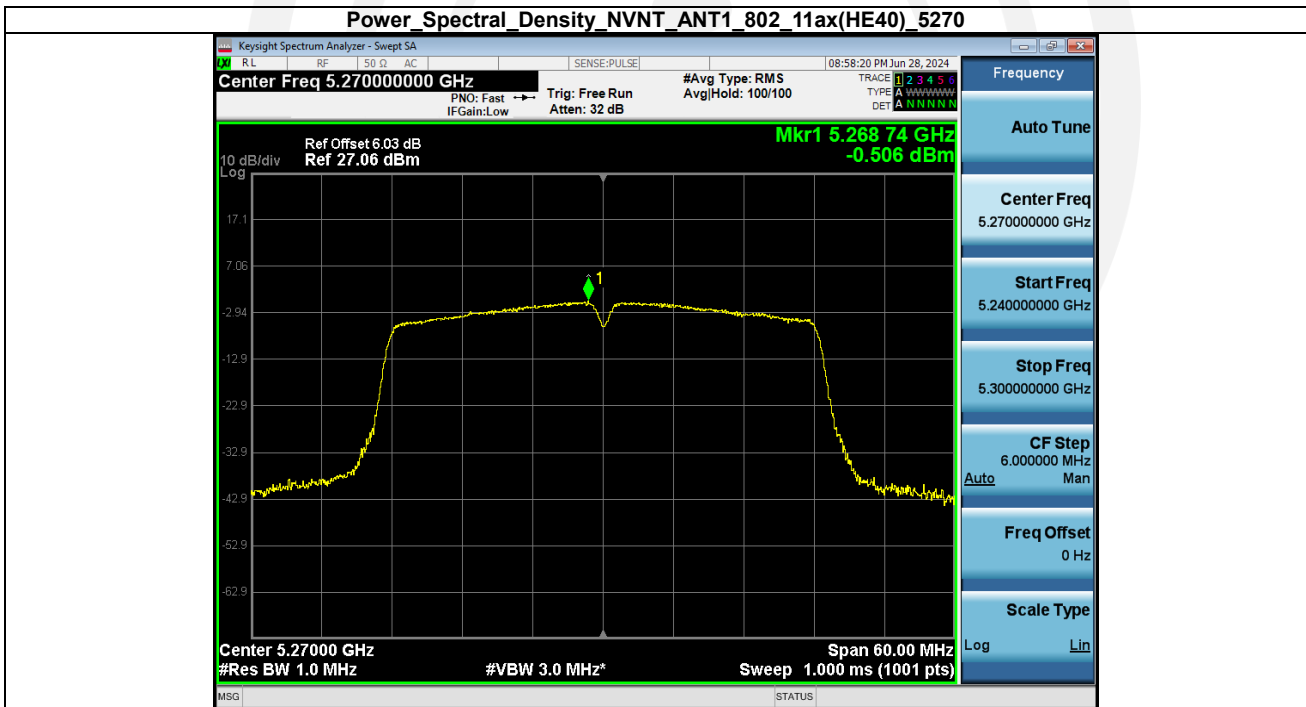
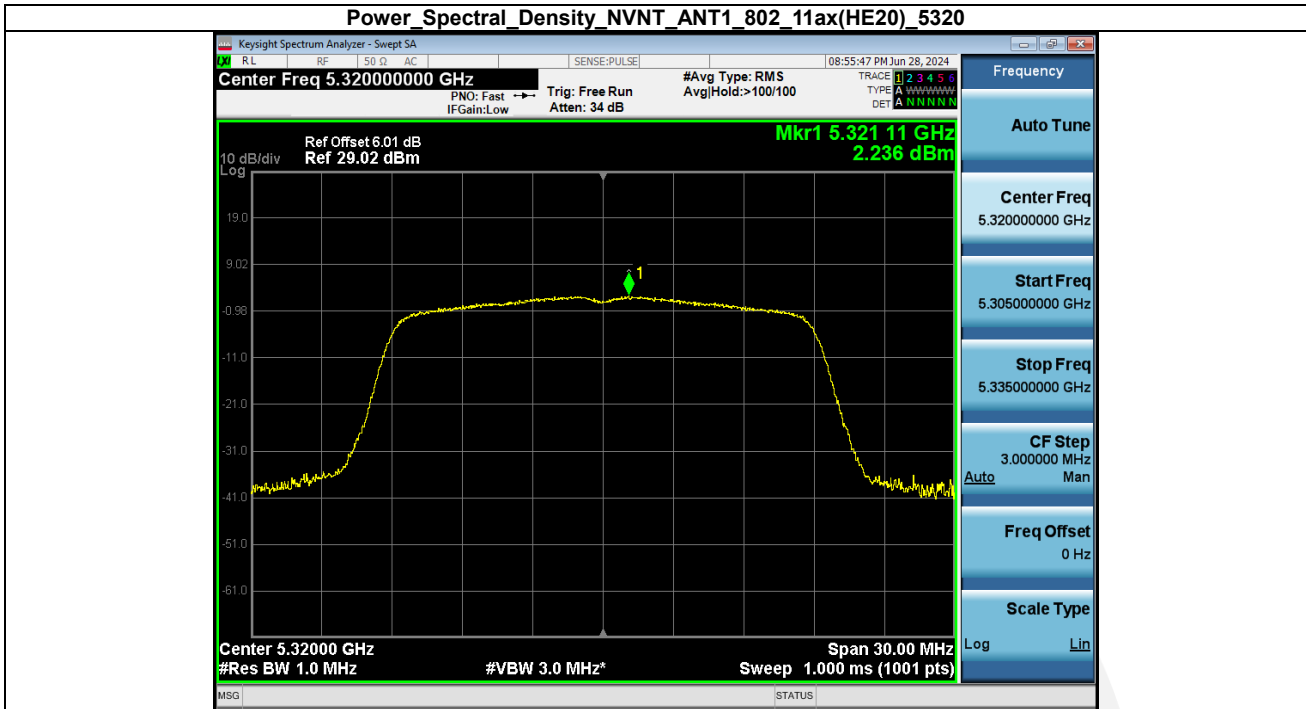


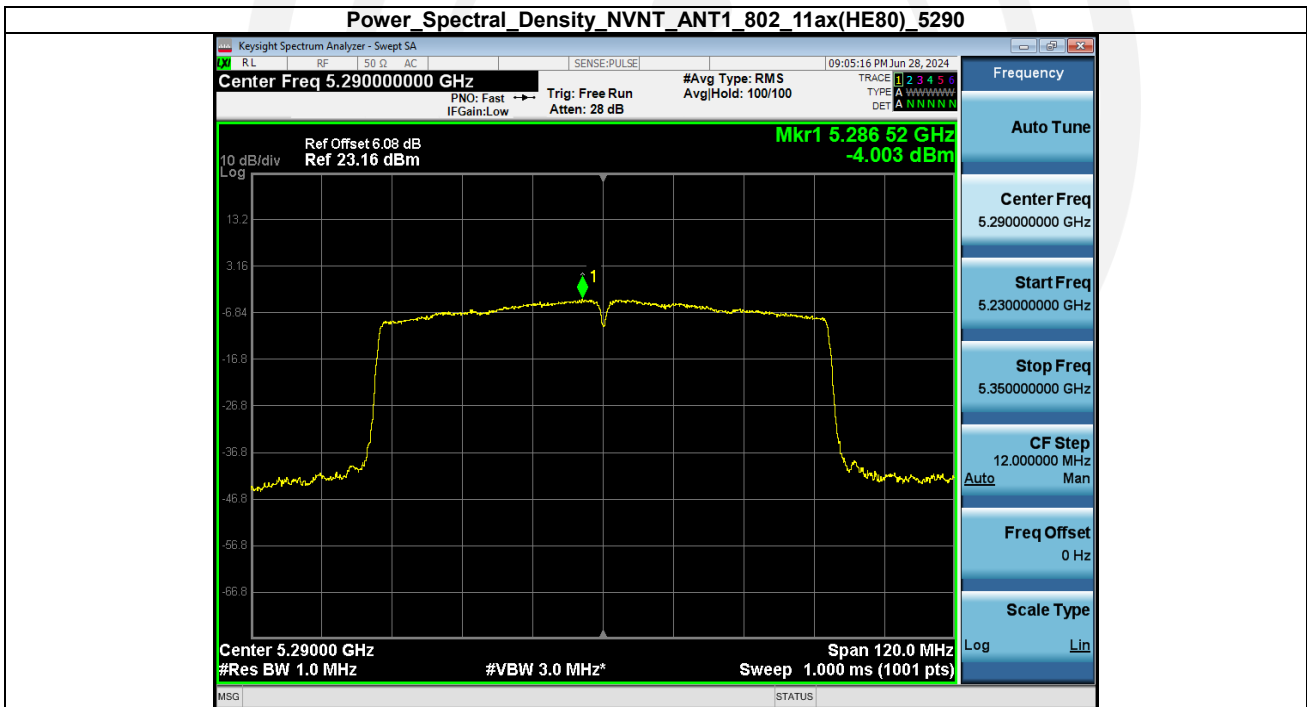
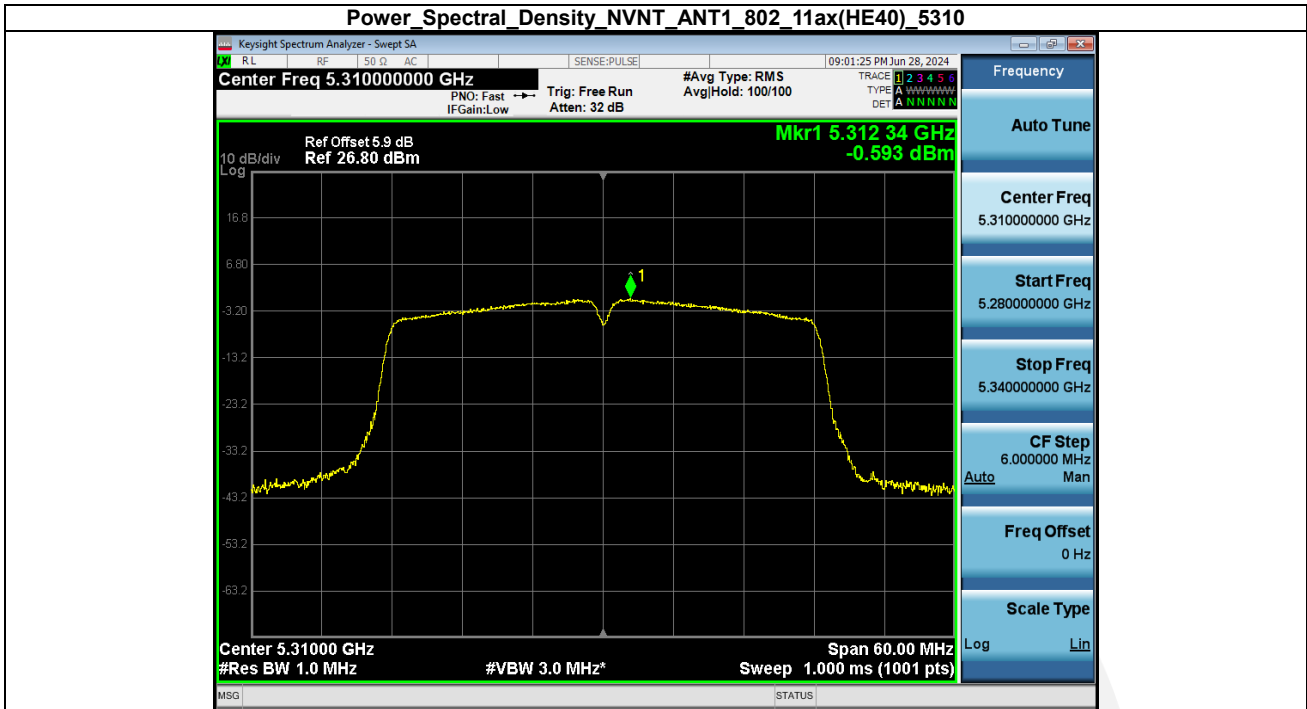






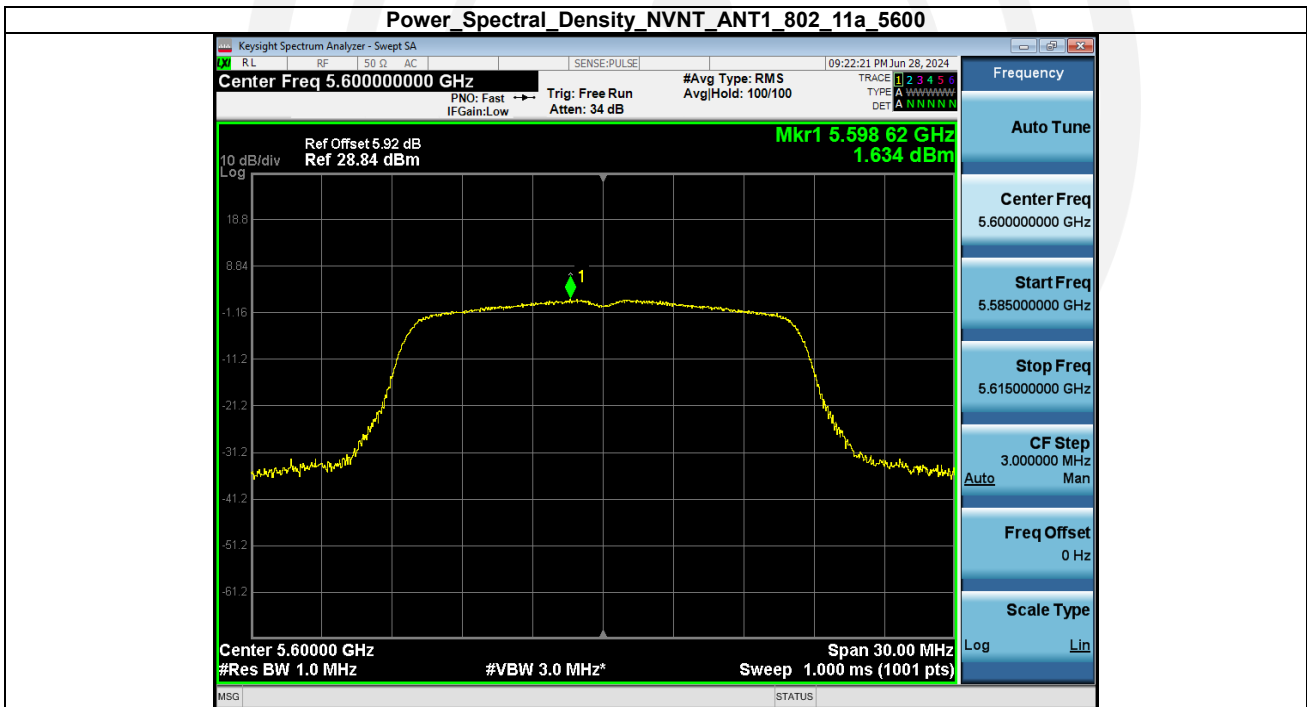
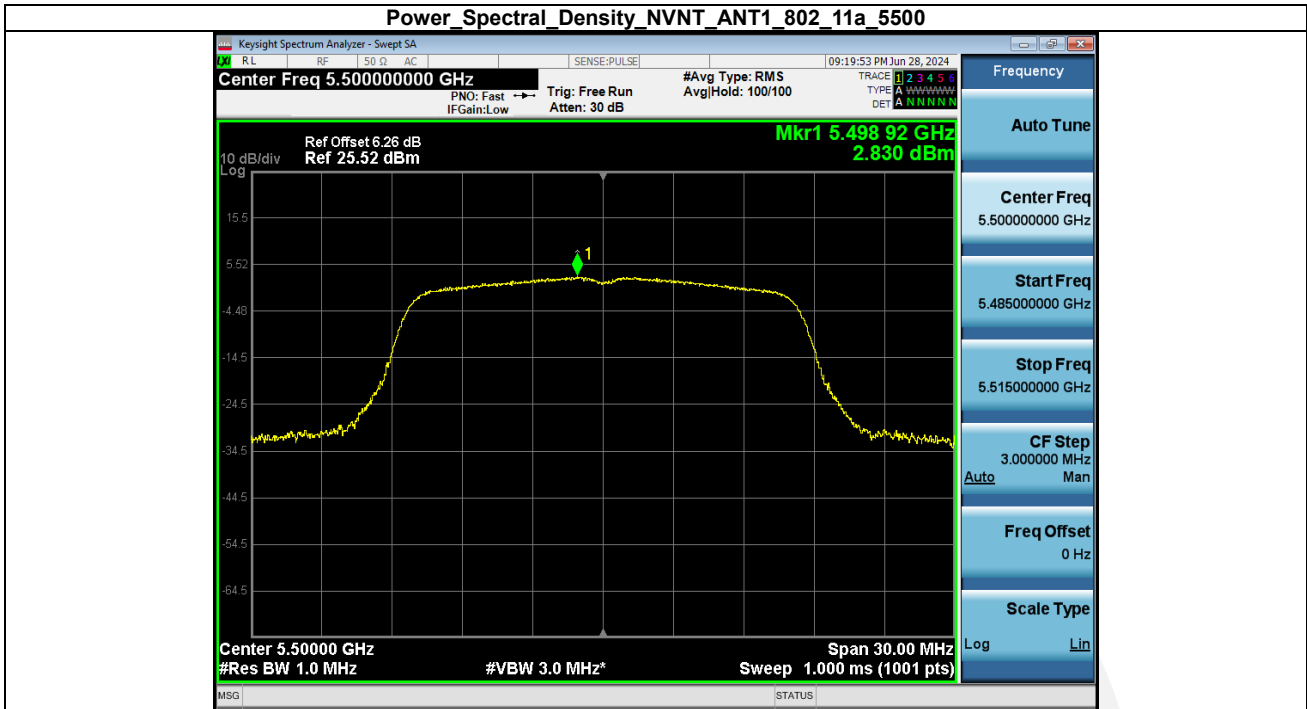


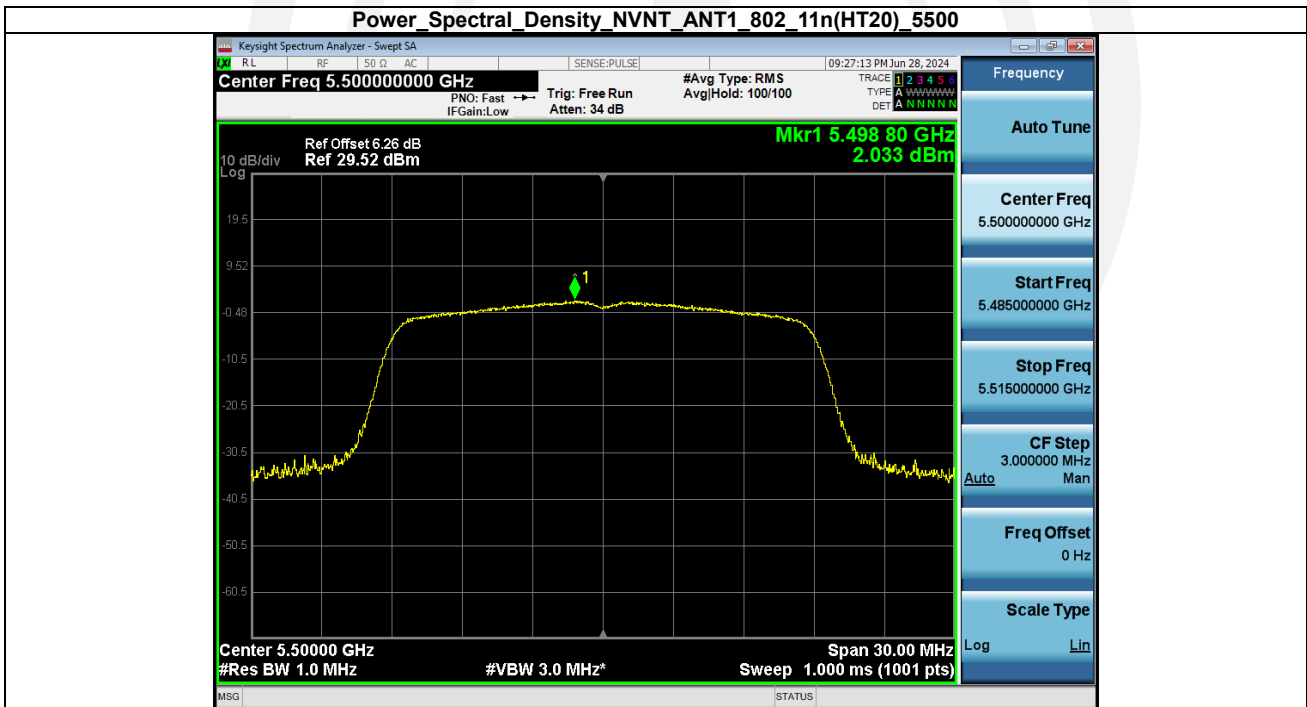
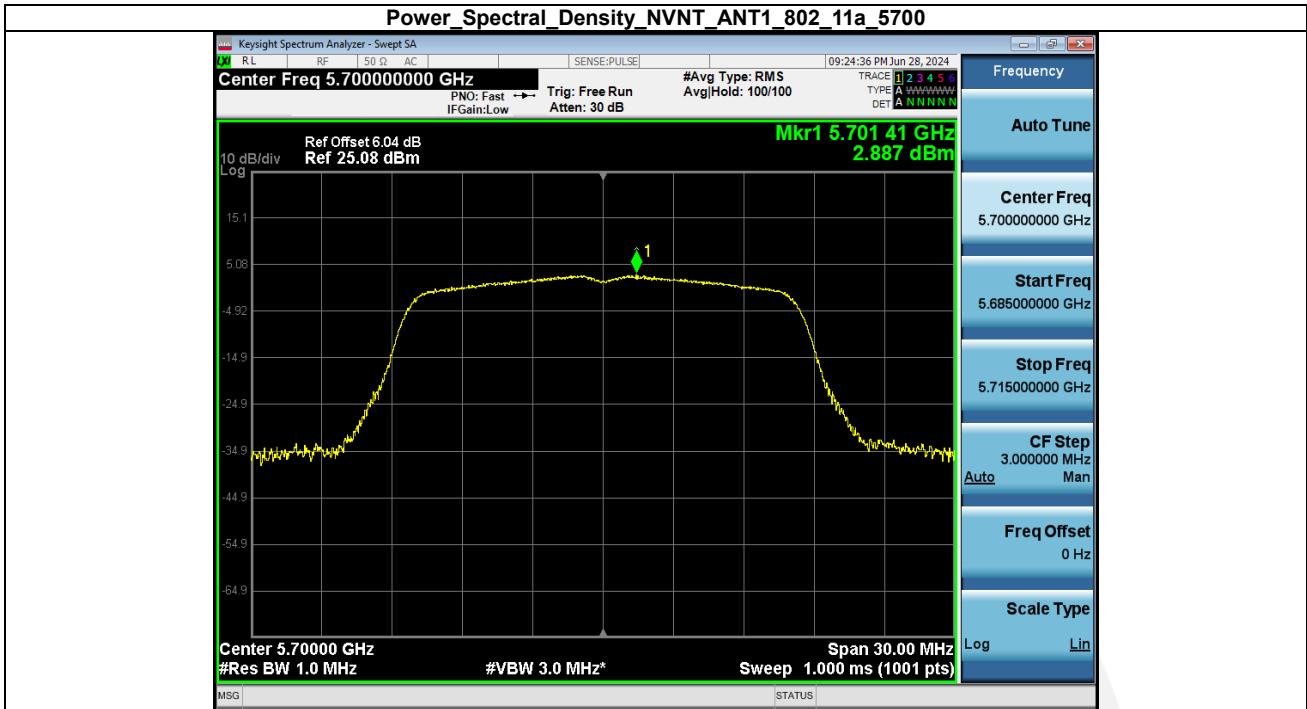


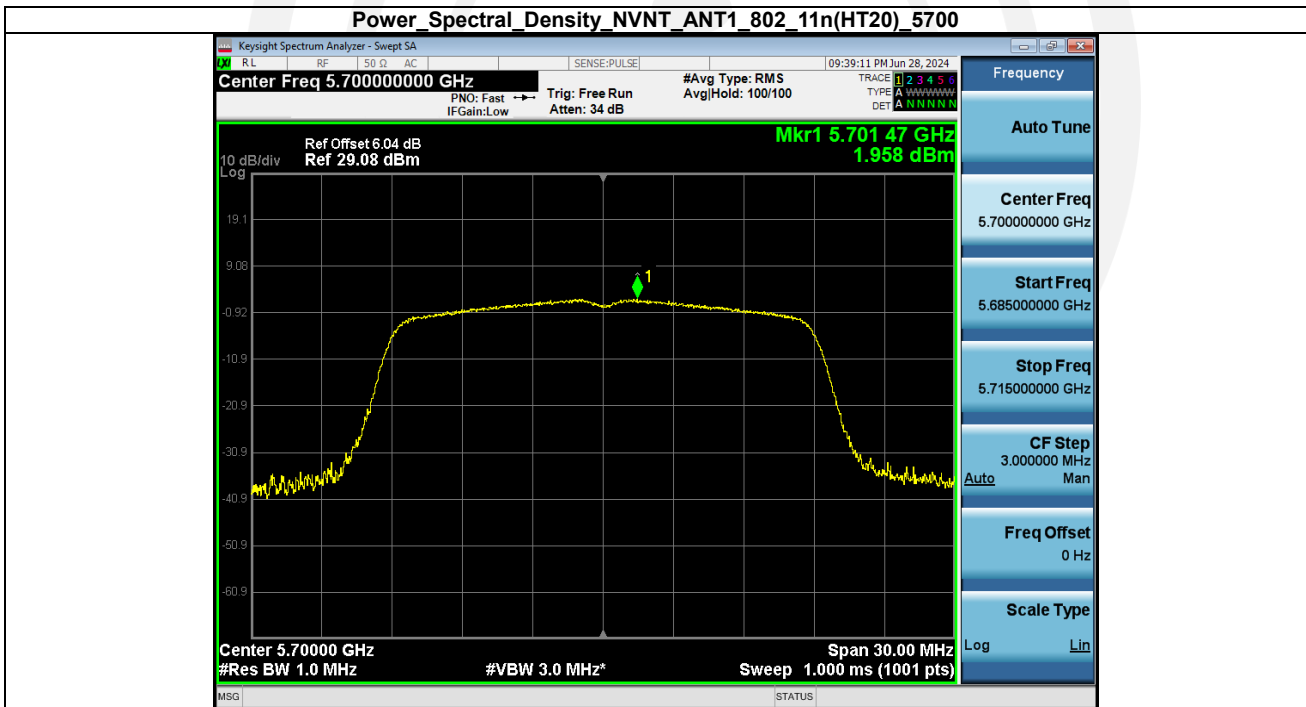
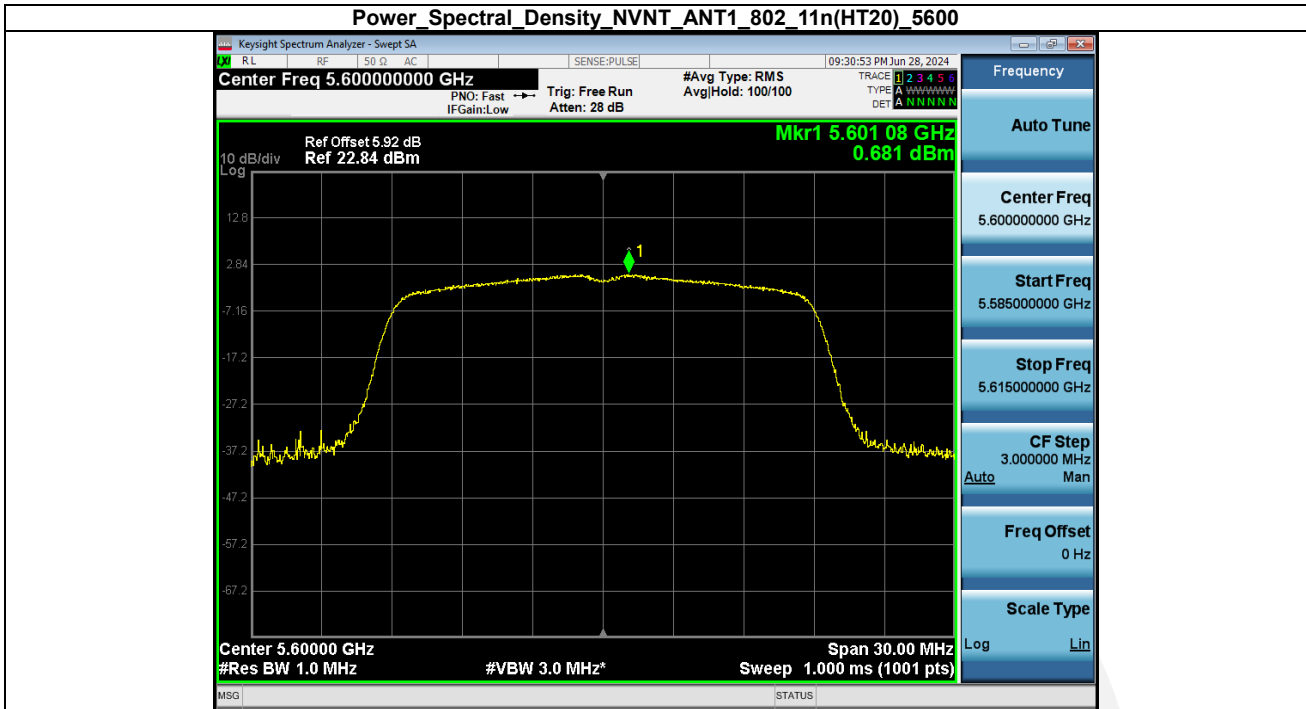


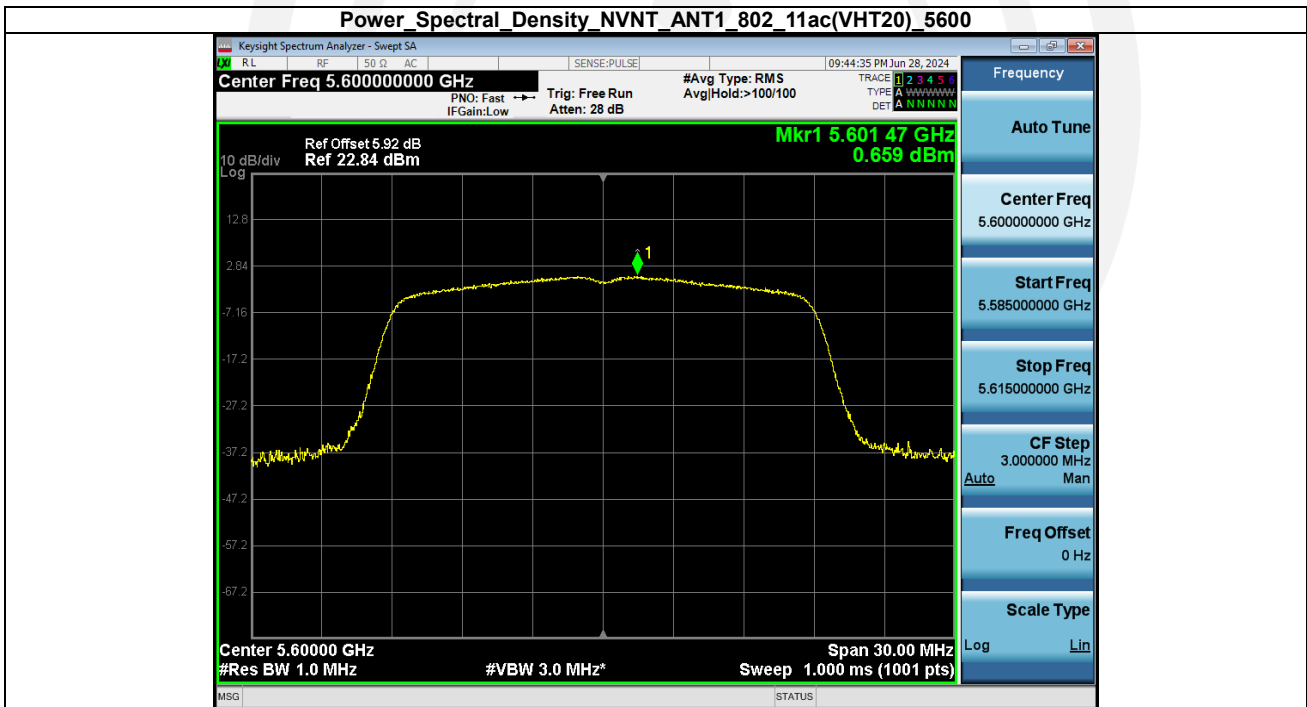
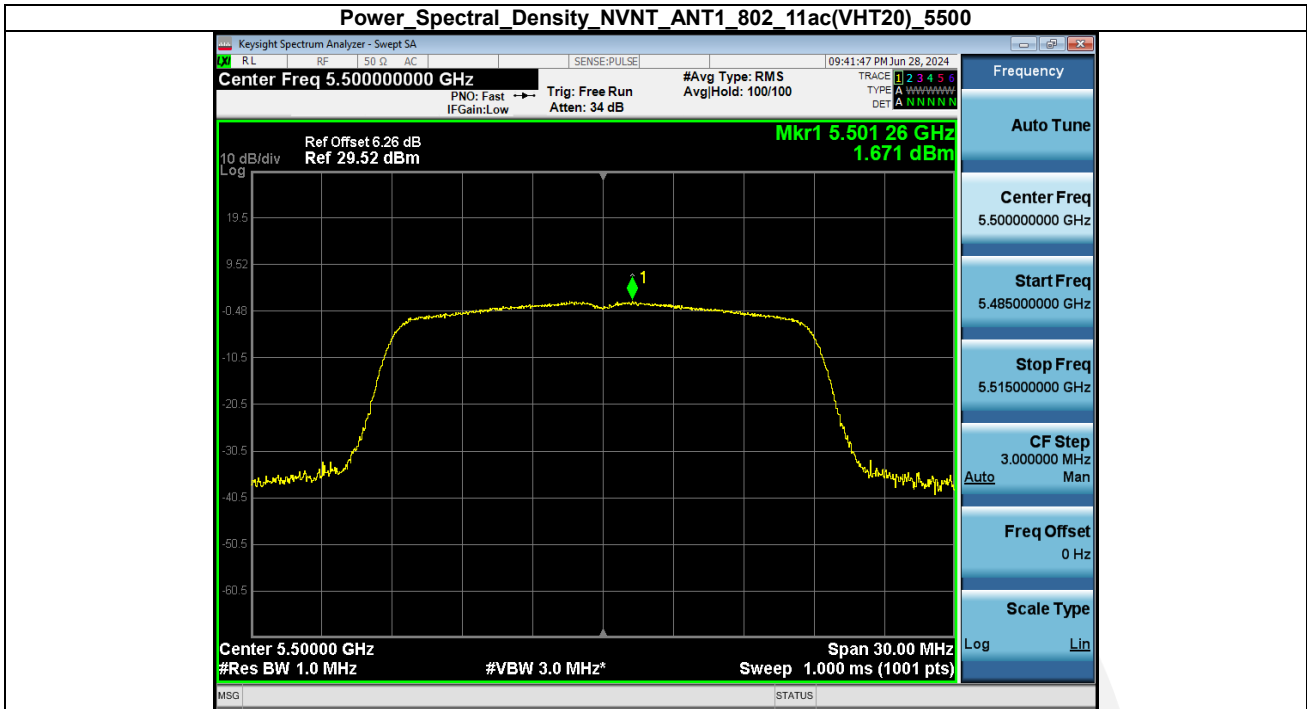
Band 3 (5500-5570 MHz):

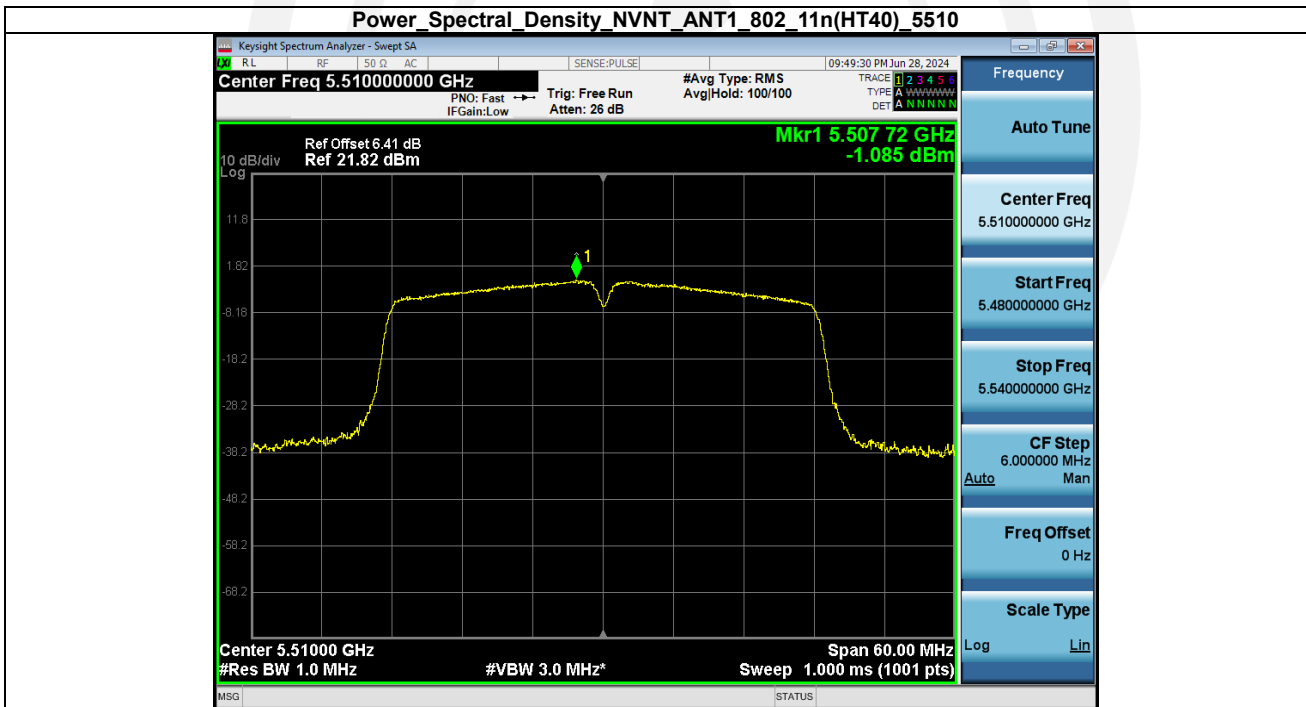
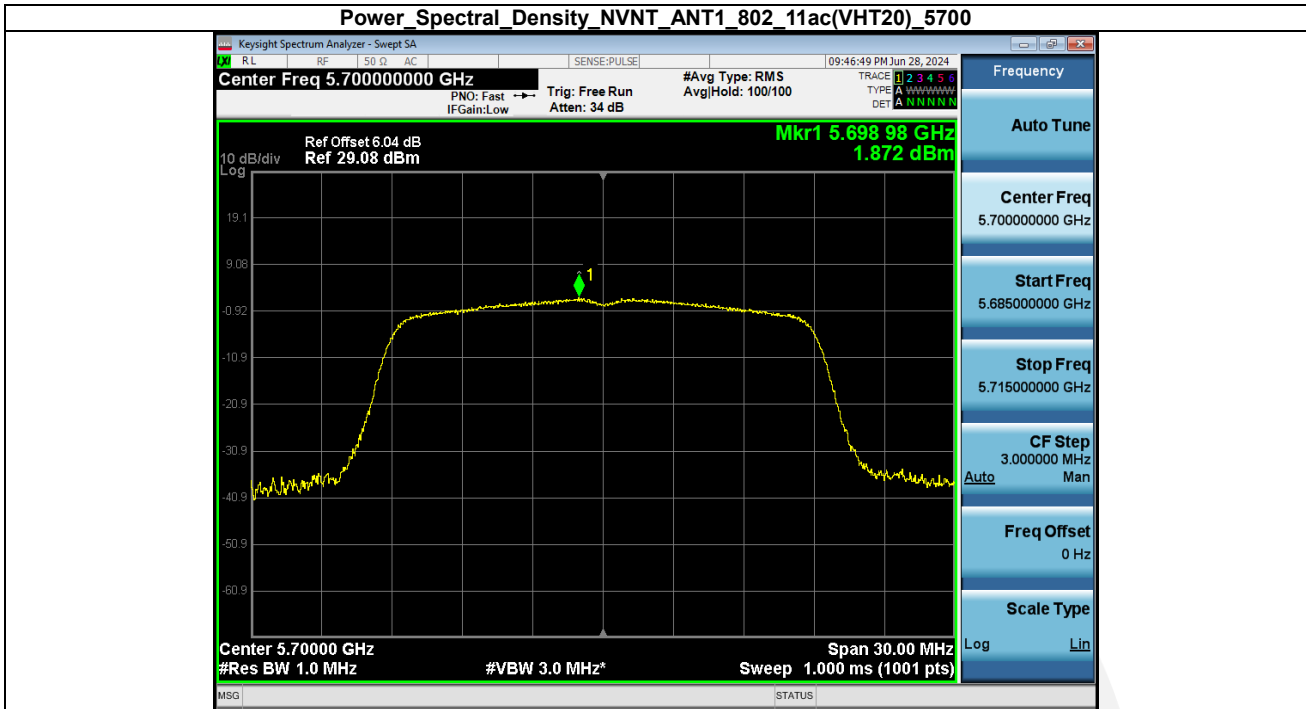
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500	2.83	0.12	2.95	11	Pass
NVNT	ANT1	802.11a	5600	1.63	0.12	1.75	11	Pass
NVNT	ANT1	802.11a	5700.00	2.89	0.12	3.01	11	Pass
NVNT	ANT1	802.11n(HT20)	5500	2.03	0.13	2.16	11	Pass
NVNT	ANT1	802.11n(HT20)	5600	0.68	0.00	0.68	11	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	1.96	0.13	2.09	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5500	1.67	0.00	1.67	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5600	0.66	0.13	0.79	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	1.87	0.00	1.87	11	Pass
NVNT	ANT1	802.11n(HT40)	5510	-1.08	0.26	-0.82	11	Pass
NVNT	ANT1	802.11n(HT40)	5590	-2.21	0.26	-1.95	11	Pass
NVNT	ANT1	802.11n(HT40)	5670	-0.40	0.26	-0.14	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5510	-0.98	0.13	-0.85	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5590	-1.81	0.26	-1.55	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5670	-0.45	0.13	-0.32	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5530	-5.17	0.51	-4.66	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5610	-5.21	0.51	-4.70	11	Pass
NVNT	ANT1	802.11ax(HE20)	5500.00	1.75	0.13	1.88	11	Pass
NVNT	ANT1	802.11ax(HE20)	5600.00	0.84	0.00	0.84	11	Pass
NVNT	ANT1	802.11ax(HE20)	5700.00	1.92	0.13	2.05	11	Pass
NVNT	ANT1	802.11ax(HE40)	5510.00	-0.94	0.13	-0.81	11	Pass
NVNT	ANT1	802.11ax(HE40)	5590.00	-2.33	0.26	-2.07	11	Pass
NVNT	ANT1	802.11ax(HE40)	5670.00	-0.36	0.26	-0.10	11	Pass
NVNT	ANT1	802.11ax(HE80)	5530.00	-5.30	0.51	-4.79	11	Pass
NVNT	ANT1	802.11ax(HE80)	5610.00	-5.17	0.51	-4.66	11	Pass

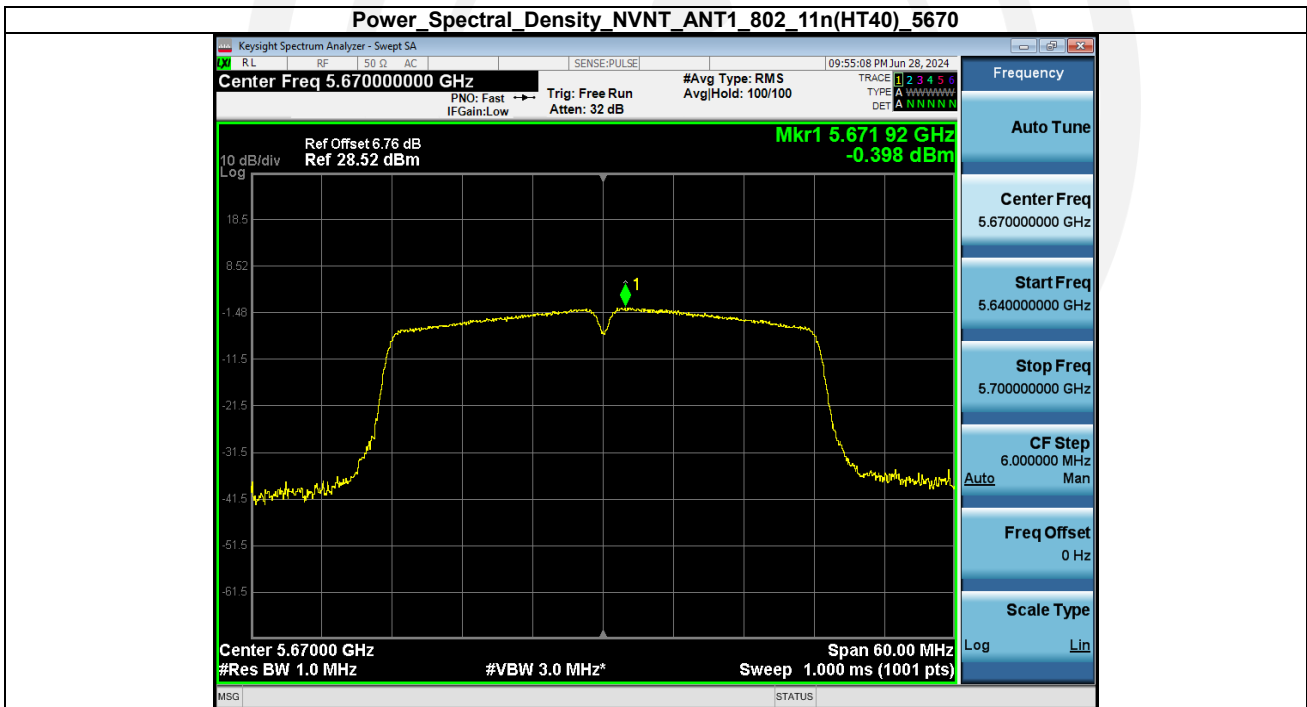
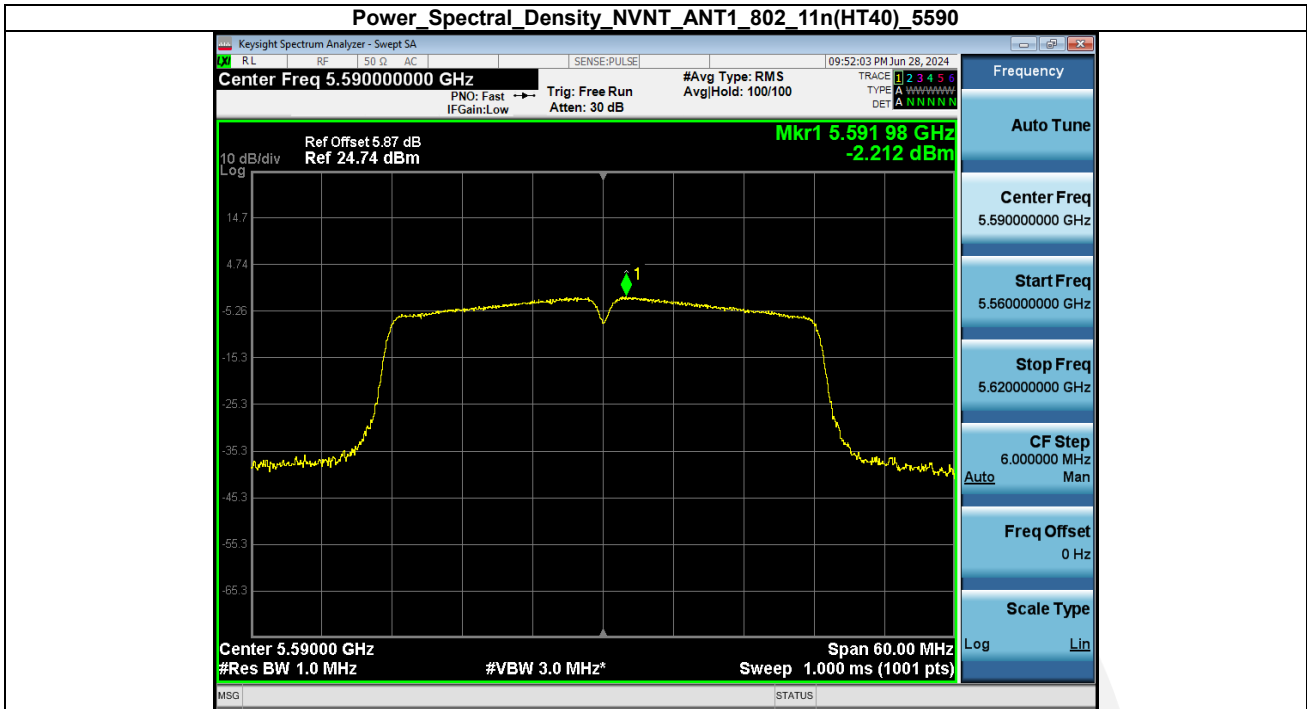


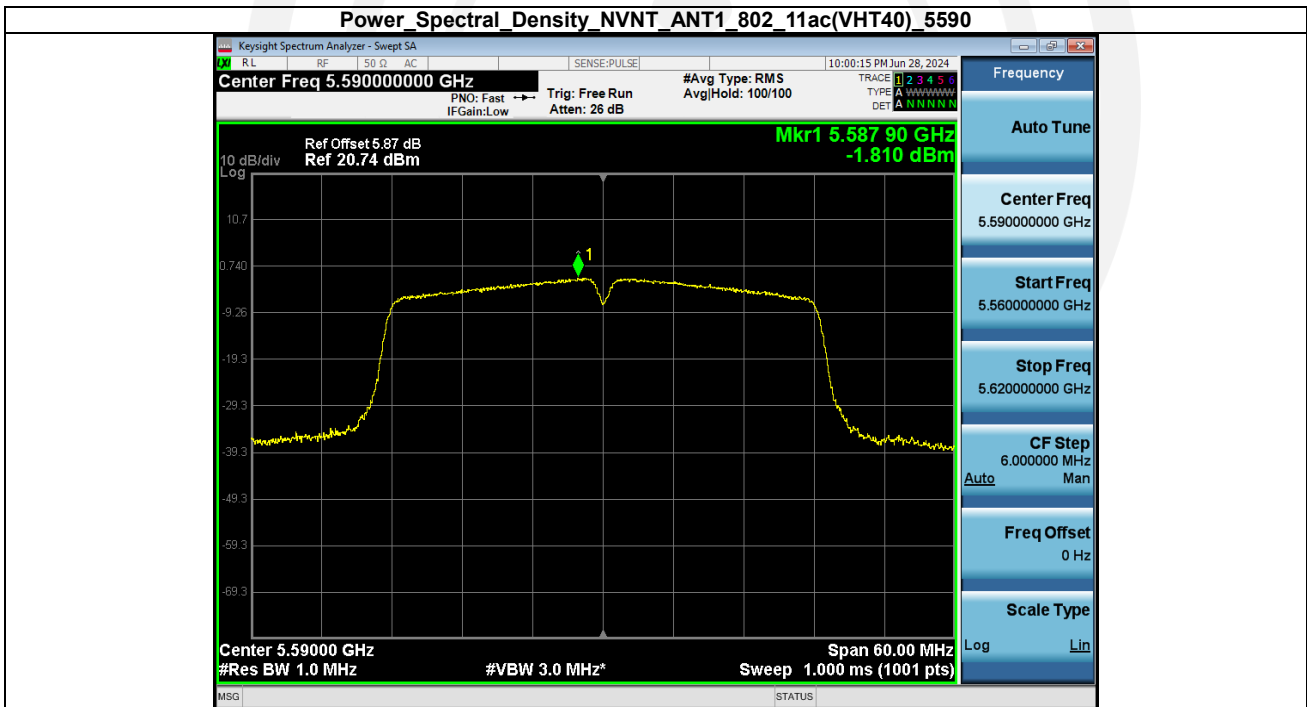
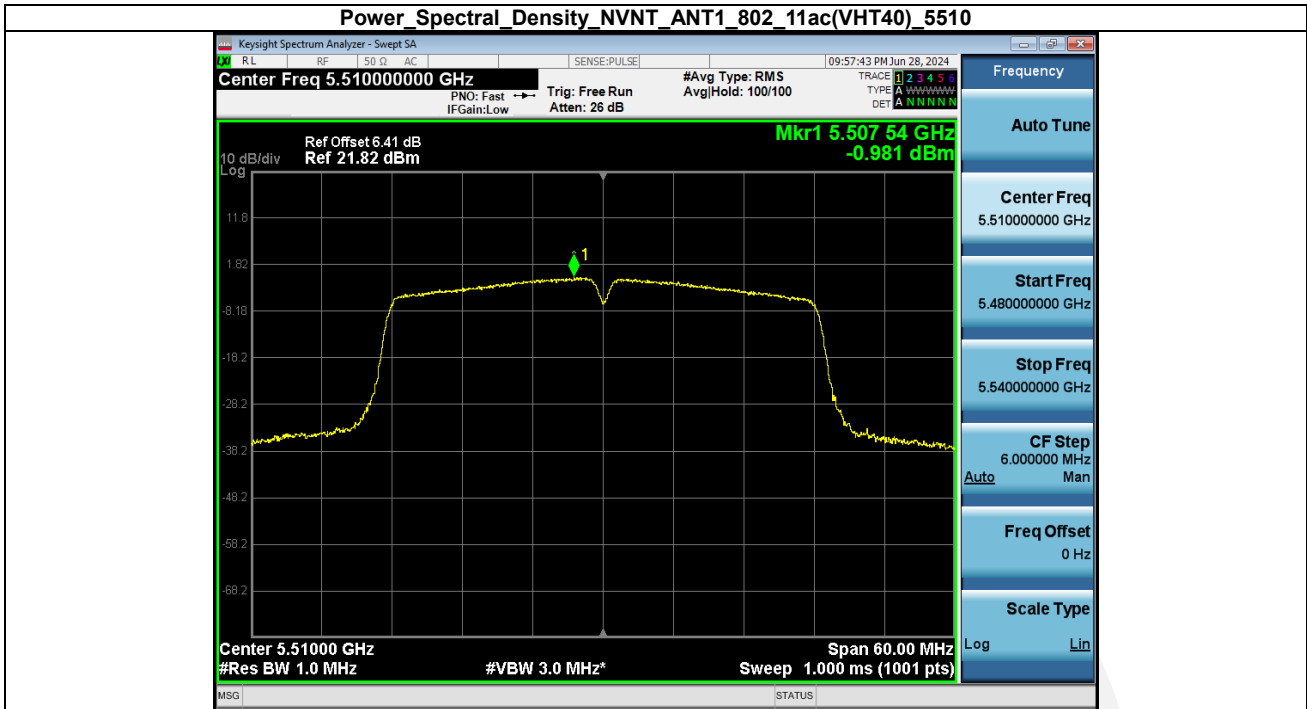


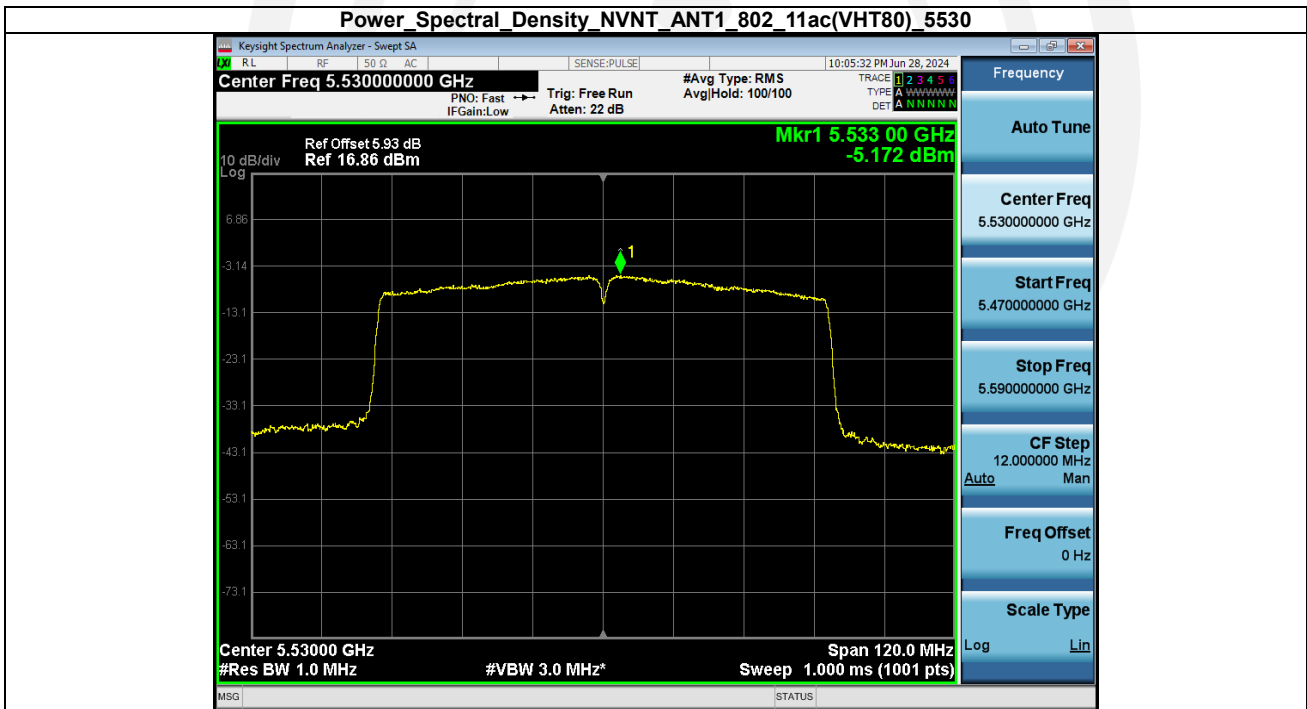
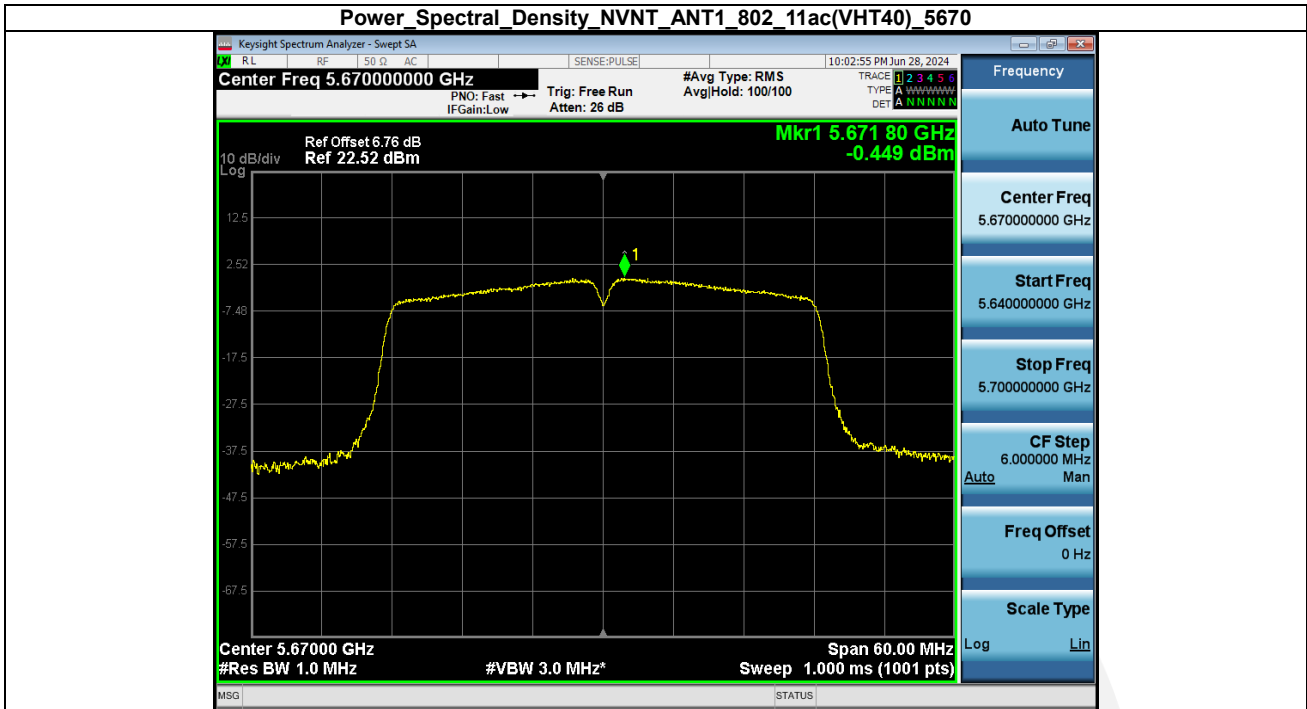


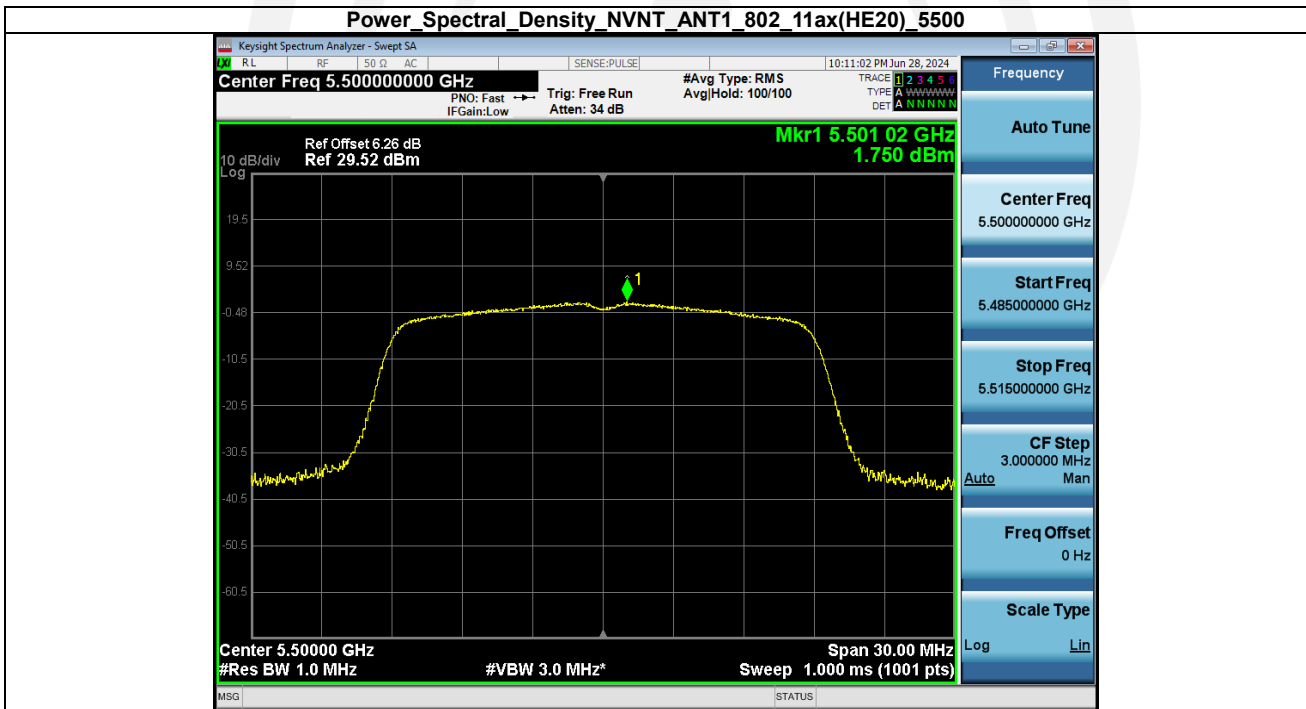
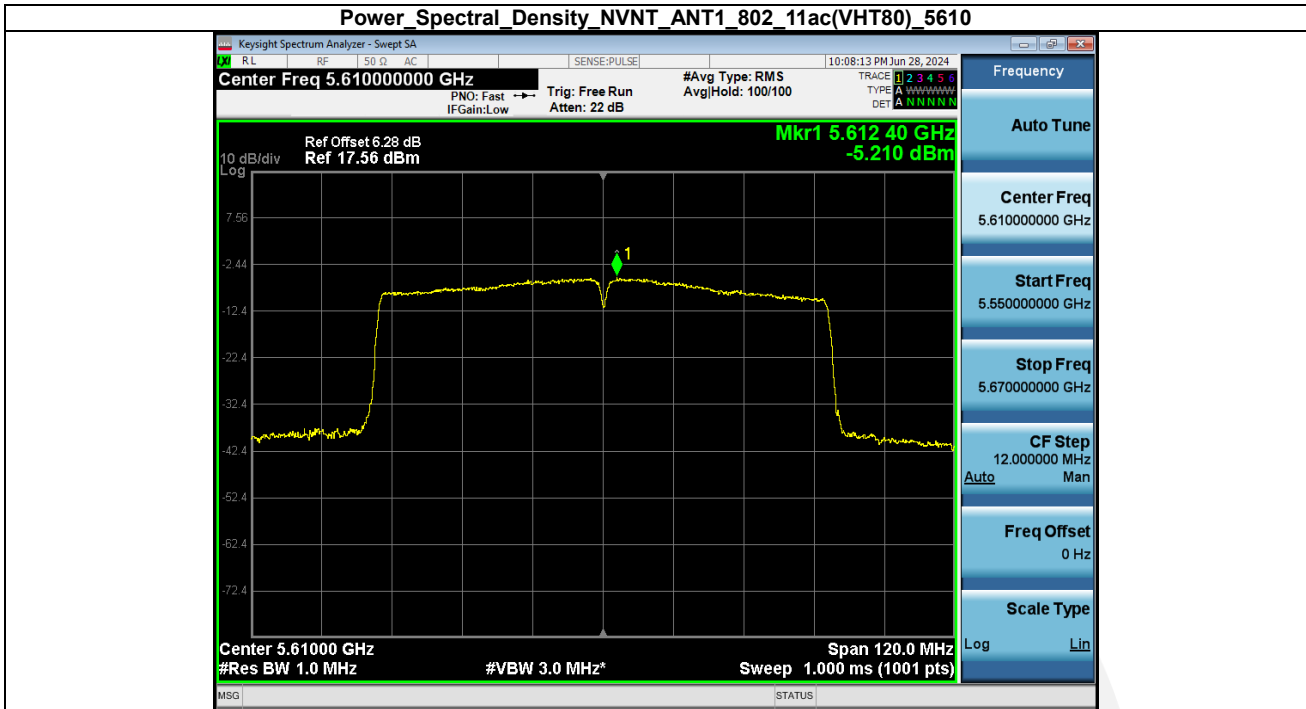


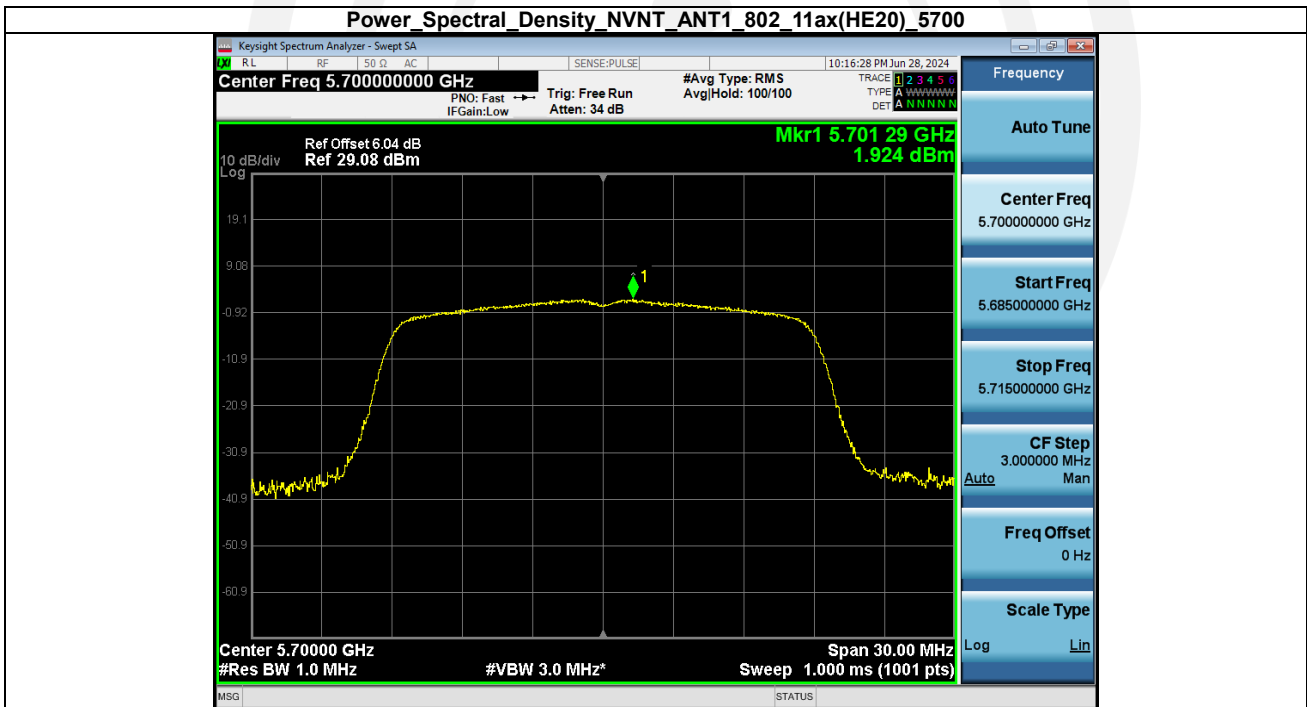
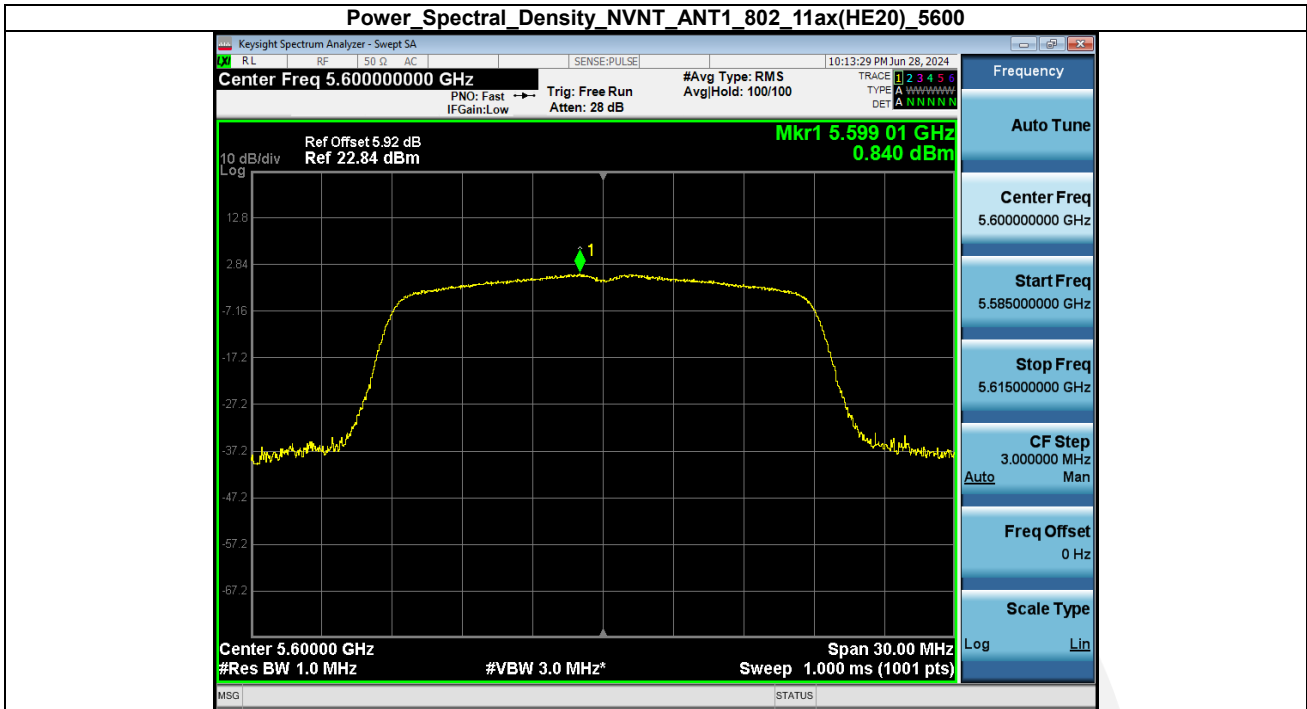


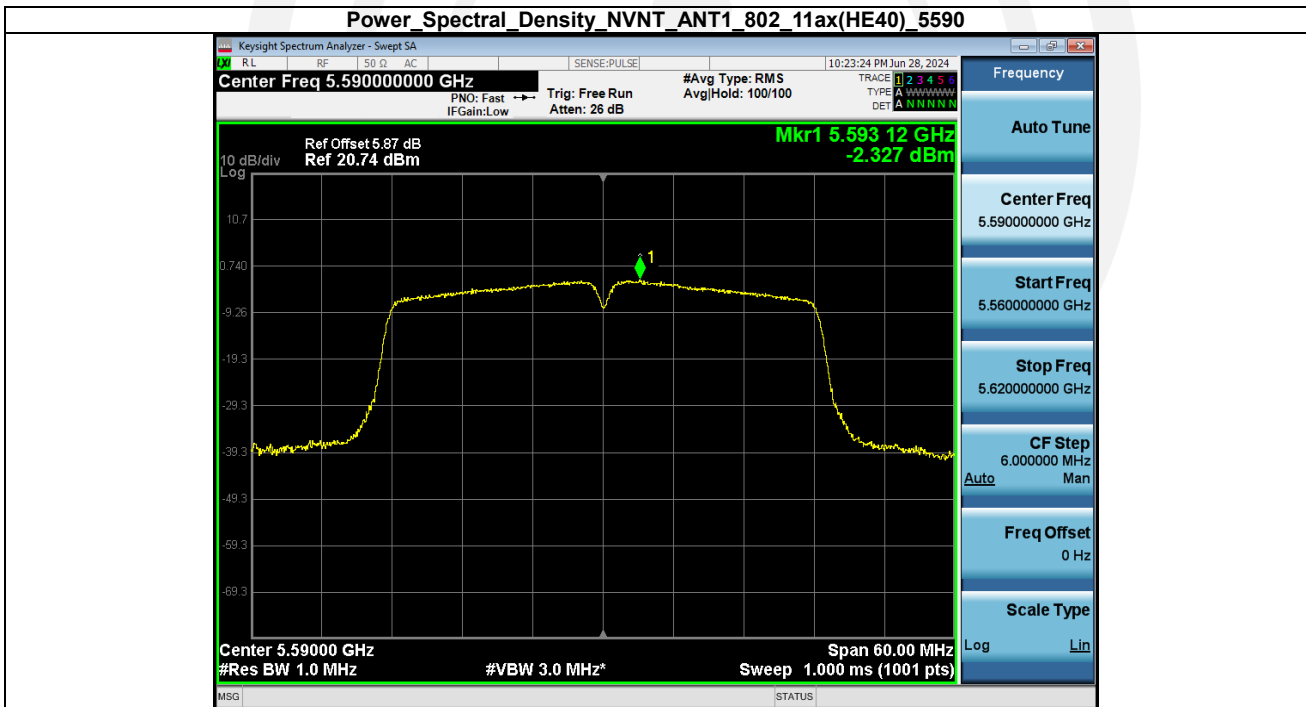
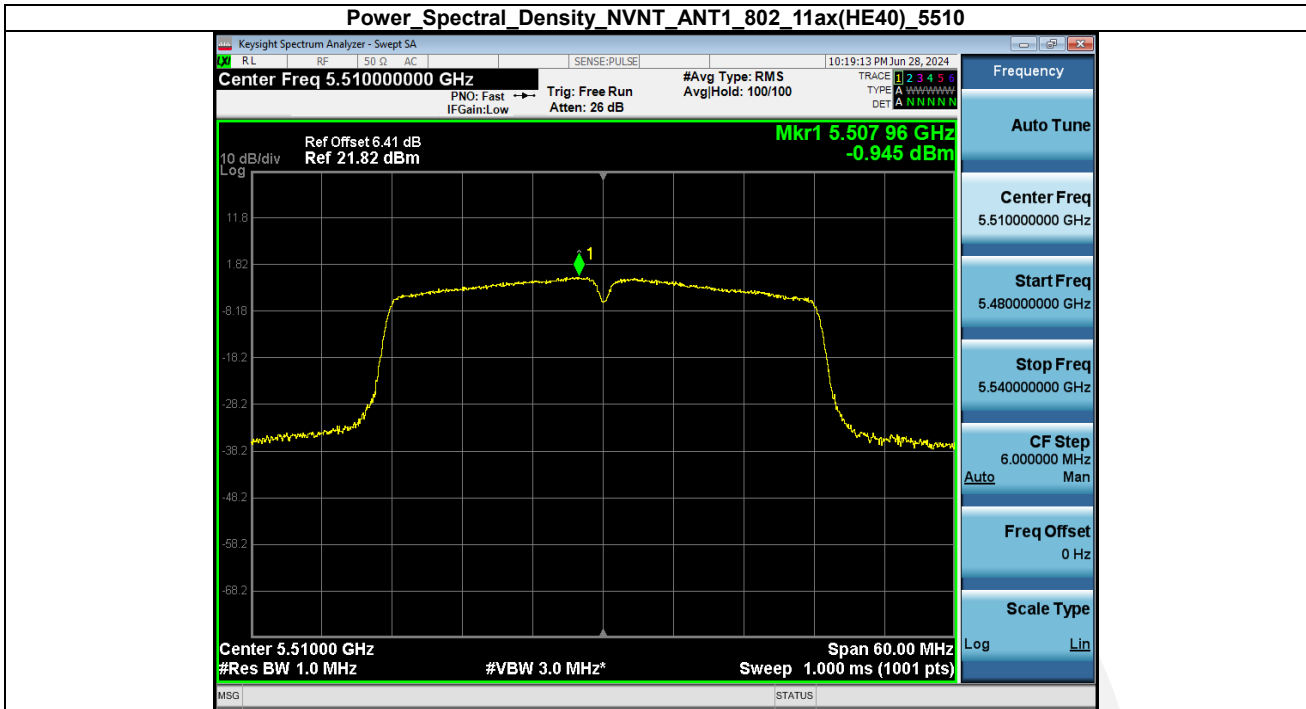


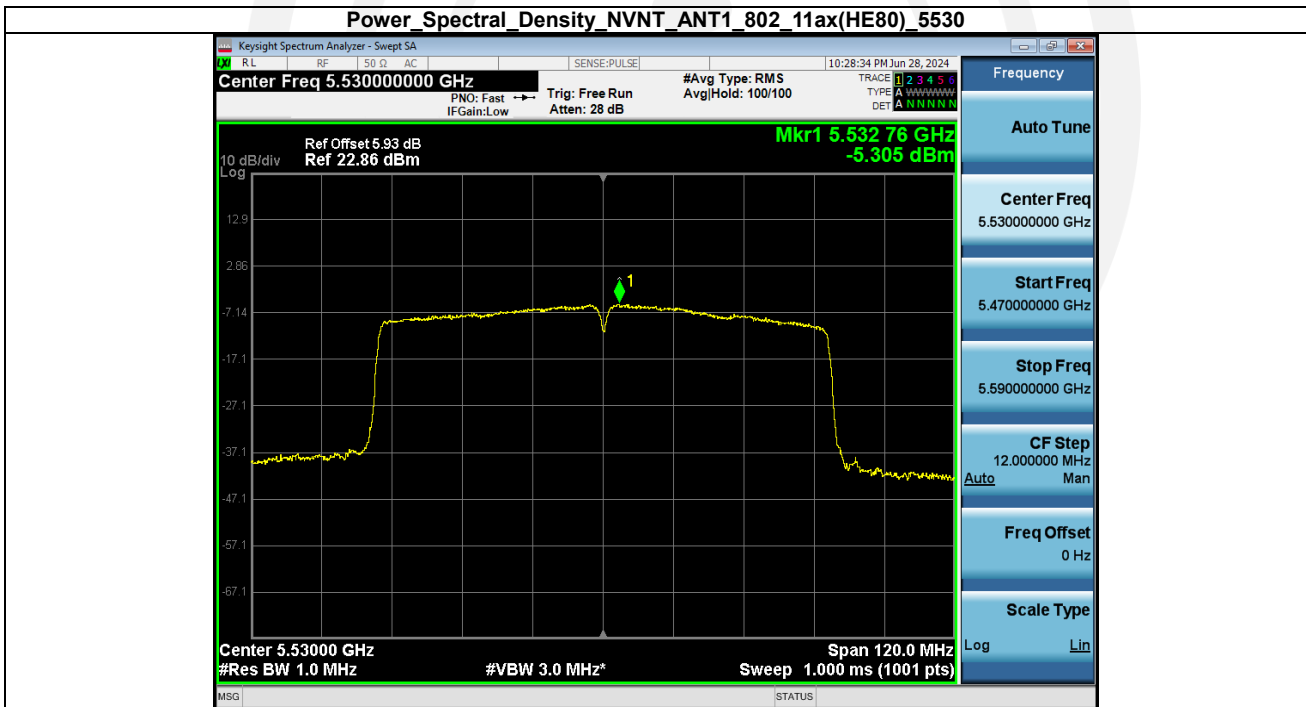
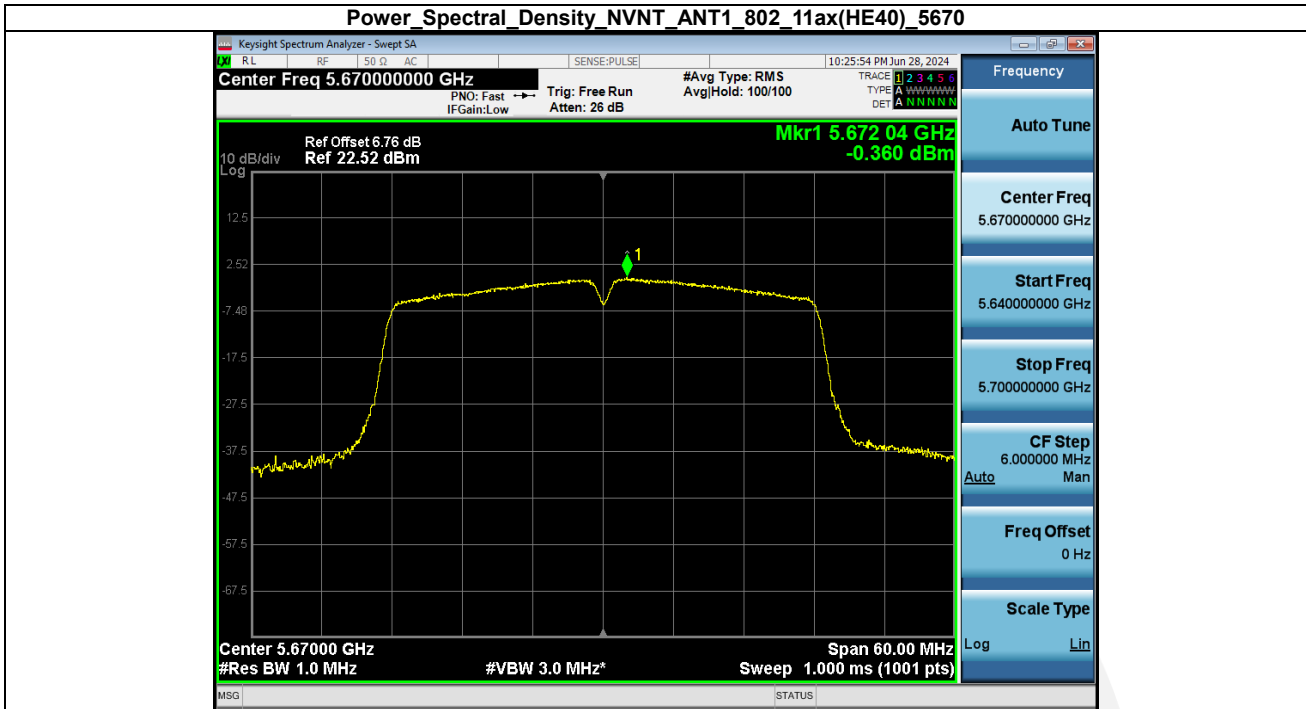


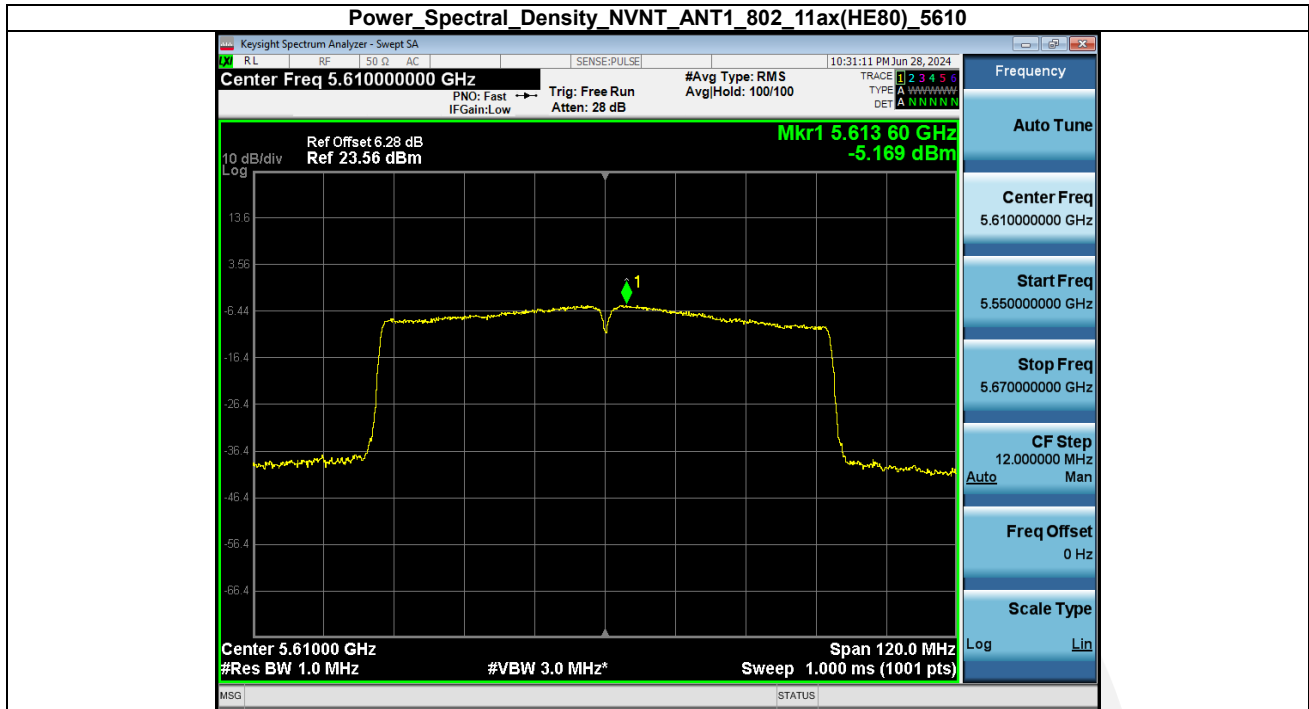












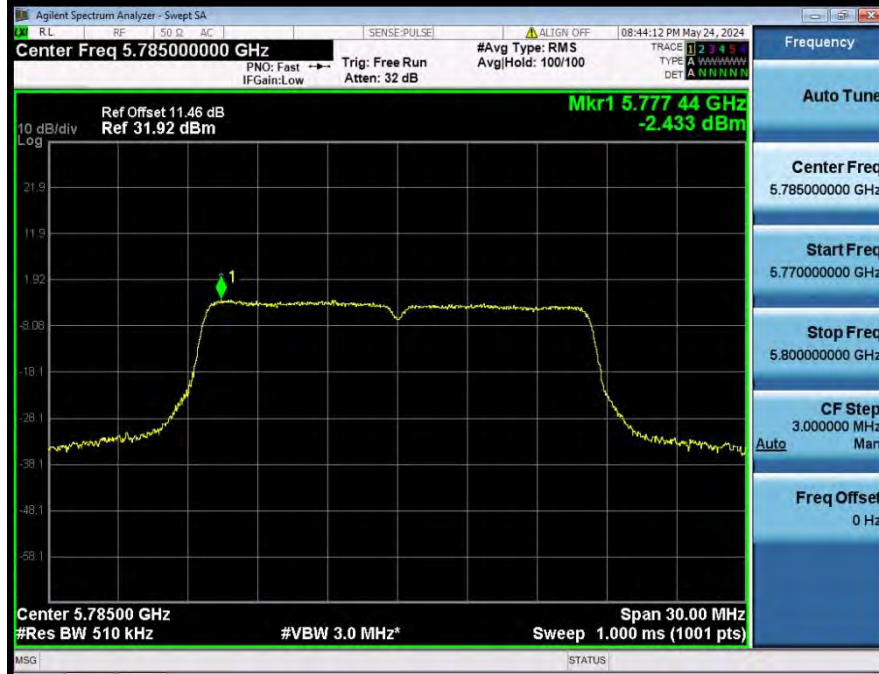
Band 4 (5725 – 5850 MHz)

Modulation	Frequency (MHz)	PSD_SA(dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
802.11a	5745.00	-2.14	0.48	-0	-1.75	30	Pass
802.11a	5785.00	-2.43	0.41	-0	-2.11	30	Pass
802.11a	5825.00	-2.91	0.47	-0	-2.53	30	Pass
802.11n(HT20)	5745.00	-2.82	0.56	-0	-2.35	30	Pass
802.11n(HT20)	5785.00	-2.82	0.49	-0	-2.42	30	Pass
802.11n(HT20)	5825.00	-2.91	0.55	-0	-2.44	30	Pass
802.11ac(VHT20)	5745.00	-1.66	0.49	-0	-1.26	30	Pass
802.11ac(VHT20)	5785.00	-2.55	0.55	-0	-2.08	30	Pass
802.11ac(VHT20)	5825.00	-2.88	0.48	-0	-2.49	30	Pass
802.11n(HT40)	5755.00	-5.37	0.91	-0	-4.54	30	Pass
802.11n(HT40)	5795.00	-5.09	0.29	-0	-4.89	30	Pass
802.11ac(VHT40)	5755.00	-5.14	0.91	-0	-4.32	30	Pass
802.11ac(VHT40)	5795.00	-5.65	1.03	-0	-4.71	30	Pass
802.11ac(VHT80)	5775.00	-9.96	1.66	-0	-8.39	30	Pass
802.11ax(HE20)	5745.00	-3.05	0.62	-0	-2.52	30	Pass
802.11ax(HE20)	5785.00	-3.64	0.55	-0	-3.18	30	Pass
802.11ax(HE20)	5825.00	-3.60	0.49	-0	-3.20	30	Pass
802.11ax(HE40)	5755.00	-6.65	1.03	-0	-5.71	30	Pass
802.11ax(HE40)	5795.00	-6.77	1.06	-0	-5.80	30	Pass
802.11ax(HE80)	5775.00	-10.37	1.66	-0	-8.79	30	Pass

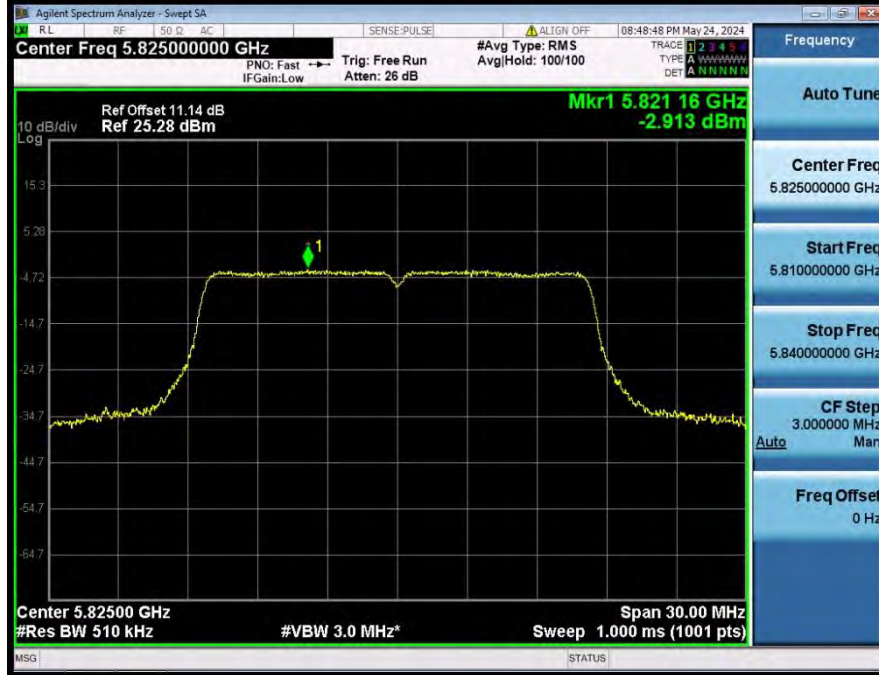
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Power_Spectral_Density_NVNT_ANT1_802_11a_5785



Power_Spectral_Density_NVNT_ANT1_802_11a_5825



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5745



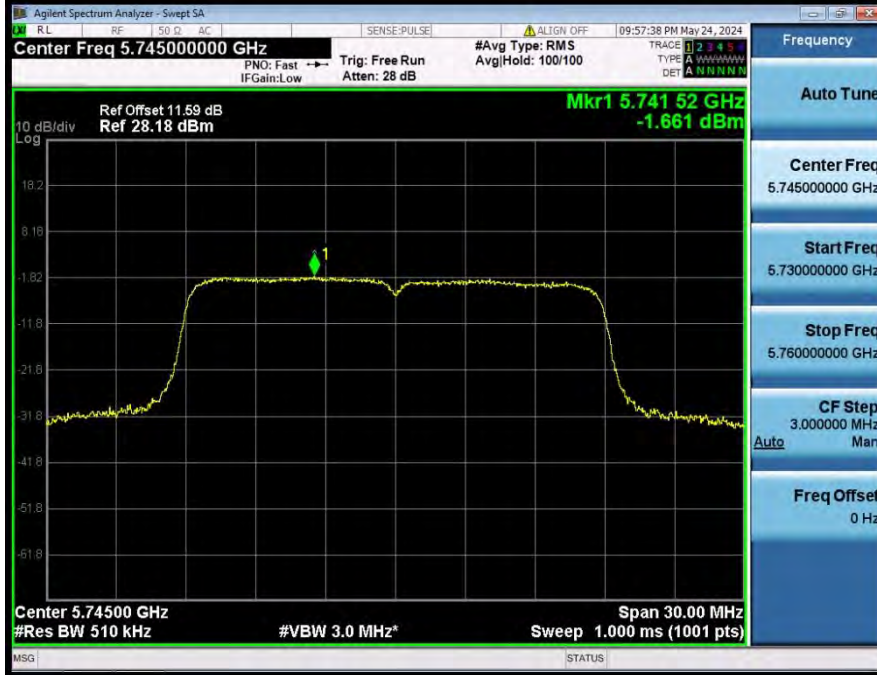
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5825



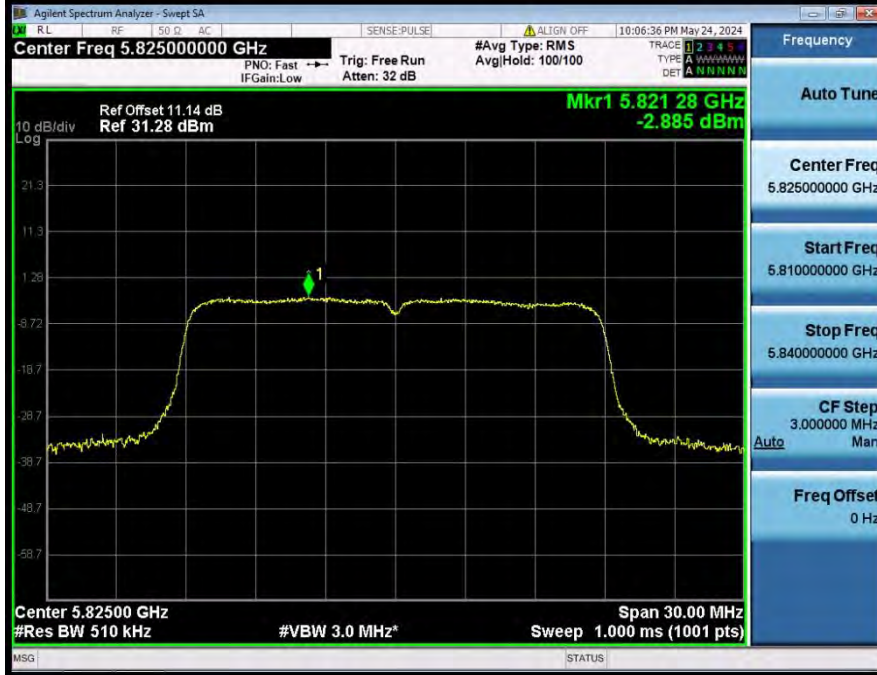
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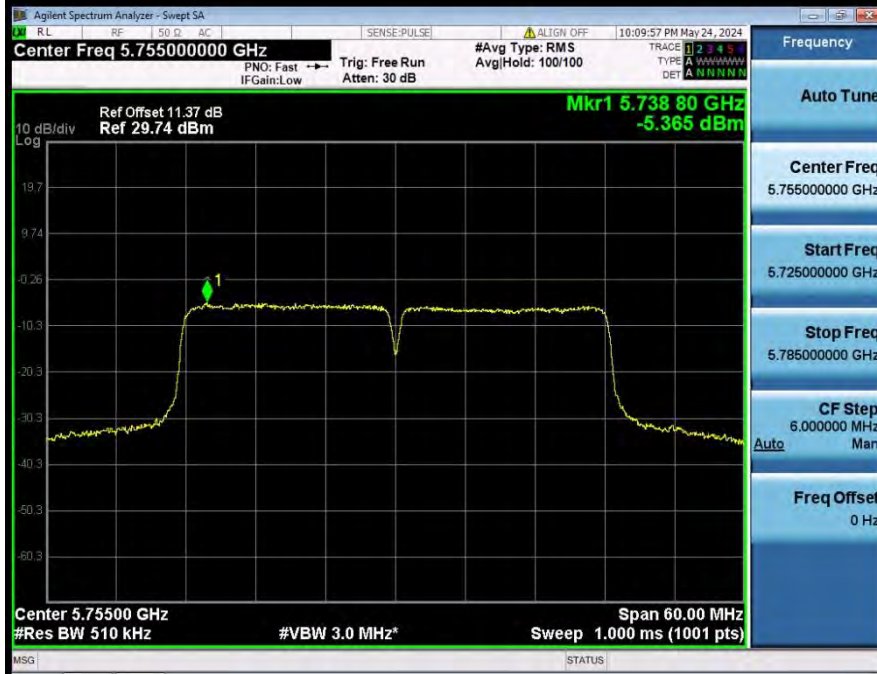
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Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5825



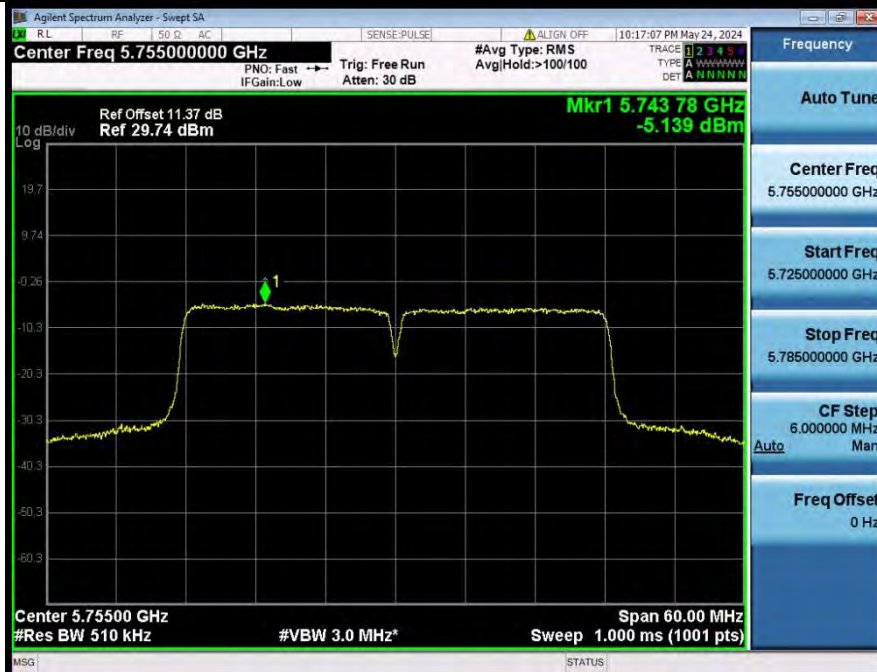
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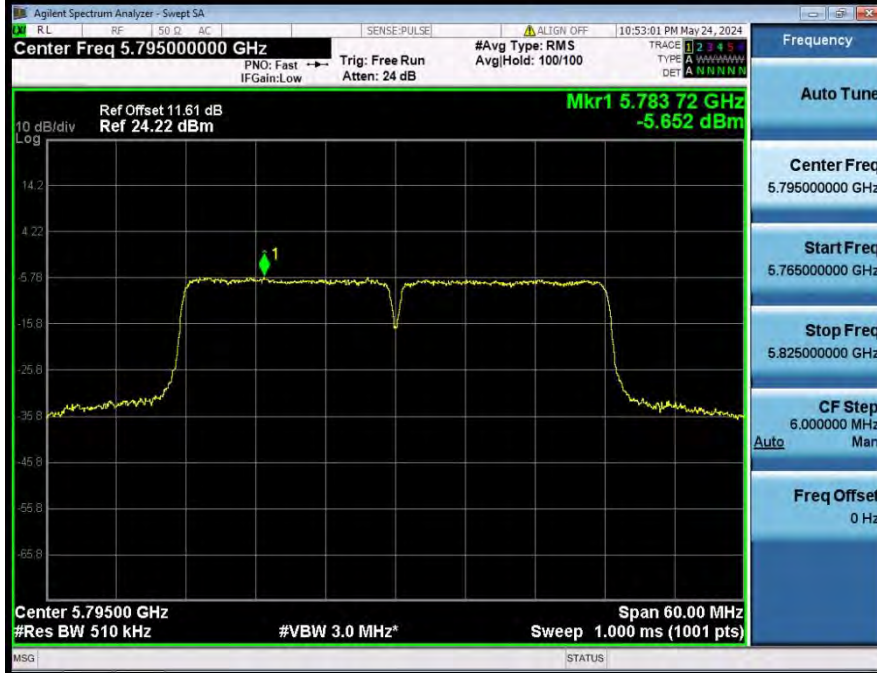
Power Spectral Density NVNT_ANT1_802_11n(HT40)_5795



Power Spectral Density NVNT_ANT1_802_11ac(VHT40)_5755



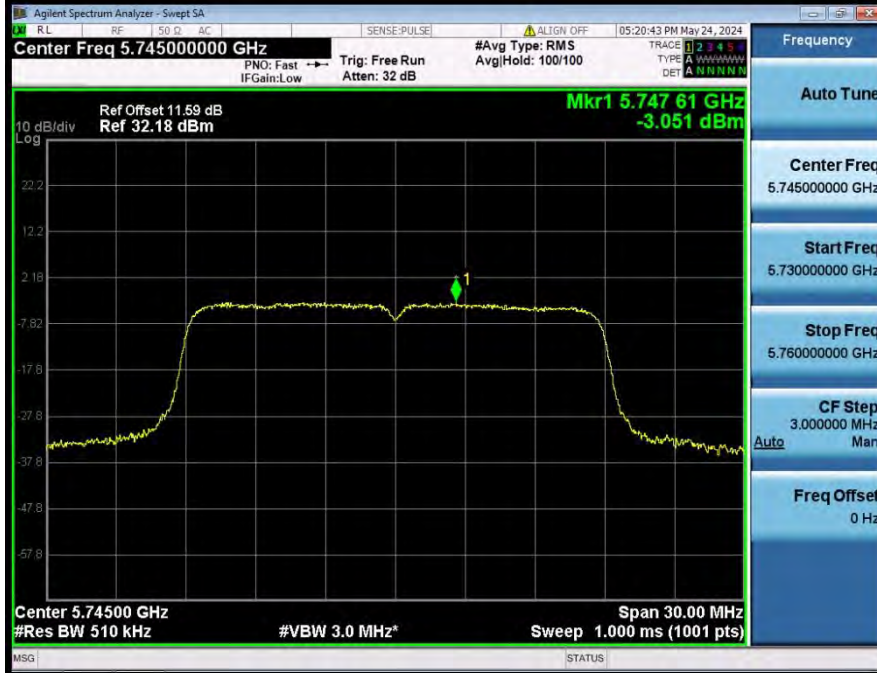
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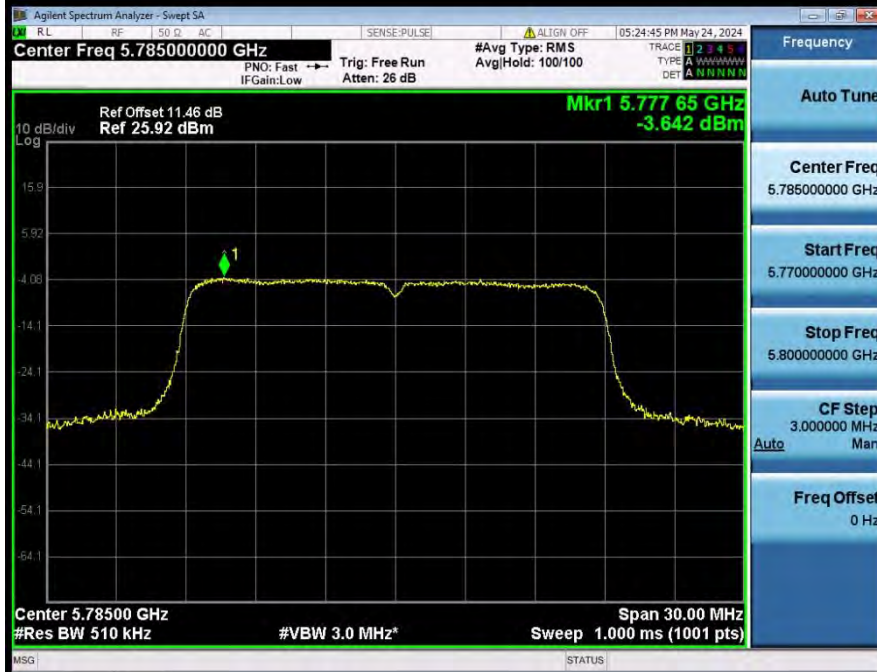
Power Spectral Density NVNT_ANT1_802_11ac(VHT80)_5775



Power Spectral Density NVNT_ANT1_802_11ax(HE20)_5745



Power Spectral Density NVNT_ANT1_802_11ax(HE20)_5785



Power Spectral Density NVNT_ANT1_802_11ax(HE20)_5825



Power Spectral Density NVNT_ANT1_802_11ax(HE40)_5755



Power Spectral Density NVNT_ANT1_802_11ax(HE40)_5795

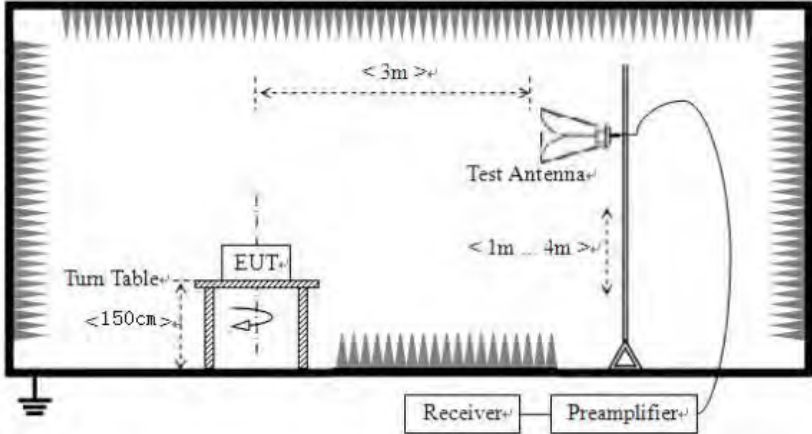


Power Spectral Density NVNT_ANT1_802_11ax(HE80)_5775



4.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 15.205, RSS-Gen §8.9																								
Test Method:	ANSI C63.10:2013																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></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>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	AV	1MHz	3MHz	Average Value	
Frequency	Detector	RBW	VBW	Remark																					
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																					
Above 1GHz	Peak	1MHz	3MHz	Peak Value																					
	AV	1MHz	3MHz	Average Value																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></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.					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	68.2	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																							
30MHz-88MHz	40.0	Quasi-peak Value																							
88MHz-216MHz	43.5	Quasi-peak Value																							
216MHz-960MHz	46.0	Quasi-peak Value																							
960MHz-1GHz	54.0	Quasi-peak Value																							
Above 1GHz	54.0	Average Value																							
	68.2	Peak Value																							
Test Procedure:	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 rotatable 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.																								
Test setup:	Above 1GHz																								

	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2,$

For example, if $\text{EIRP} = -27\text{dBm}$

$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$

Measurement Data:**Band1**

Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.26	17.18	53.44	68.20	-14.76	PK
V	5150.00	35.66	17.18	52.84	68.20	-15.36	PK
Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.73	17.18	44.91	54.00	-9.09	AV
V	5150.00	25.74	17.18	42.92	54.00	-11.08	AV
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.12	17.18	52.30	68.20	-15.90	PK
V	5350.00	36.27	17.18	53.45	68.20	-14.75	PK
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	28.16	17.18	45.34	54.00	-8.66	AV
V	5350.00	25.12	17.18	42.30	54.00	-11.70	AV

Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.95	17.18	54.13	68.20	-14.07	PK
V	5150.00	36.45	17.18	53.63	68.20	-14.57	PK
Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.66	17.18	44.84	54.00	-9.16	AV
V	5150.00	27.21	17.18	44.39	54.00	-9.61	AV
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.25	17.18	51.43	68.20	-16.77	PK
V	5350.00	35.32	17.18	52.50	68.20	-15.70	PK
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.23	17.18	44.41	54.00	-9.59	AV
V	5350.00	24.46	17.18	41.64	54.00	-12.36	AV

Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.39	17.18	52.57	68.20	-15.63	PK
V	5150.00	32.75	17.18	49.93	68.20	-18.27	PK
Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.98	17.18	43.16	54.00	-10.84	AV
V	5150.00	24.03	17.18	41.21	54.00	-12.79	AV
Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.11	17.18	53.29	68.20	-14.91	PK
V	5350.00	33.93	17.18	51.11	68.20	-17.09	PK
Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.38	17.18	43.56	54.00	-10.44	AV
V	5350.00	24.75	17.18	41.93	54.00	-12.07	AV

Mode:		802.11ax(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.40	17.18	54.58	68.20	-13.62	PK
V	5150.00	33.96	17.18	51.14	68.20	-17.06	PK
Mode:		802.11ax(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.09	17.18	42.27	54.00	-11.73	AV
V	5150.00	27.05	17.18	44.23	54.00	-9.77	AV
Mode:		802.11ax(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.37	17.18	54.55	68.20	-13.65	PK
V	5350.00	35.59	17.18	52.77	68.20	-15.43	PK
Mode:		802.11ax(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.93	17.18	45.11	54.00	-8.89	AV
V	5350.00	27.29	17.18	44.47	54.00	-9.53	AV

Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.94	17.18	51.12	68.20	-17.08	PK
V	5150.00	33.02	17.18	50.20	68.20	-18.00	PK
Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.47	17.18	44.65	54.00	-9.35	AV
V	5150.00	25.45	17.18	42.63	54.00	-11.37	AV
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.61	17.18	51.79	68.20	-16.41	PK
V	5350.00	34.79	17.18	51.97	68.20	-16.23	PK
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.81	17.18	44.99	54.00	-9.01	AV
V	5350.00	24.98	17.18	42.16	54.00	-11.84	AV