

Appendix

Test Data

for BTEK241108034A01E04

Start date	2025/2/20	Finish date	2025/2/22
Temperature	21.5℃	Humidity	51%
RF specifications	5.6G_WIFI	Test Engineer	Zora



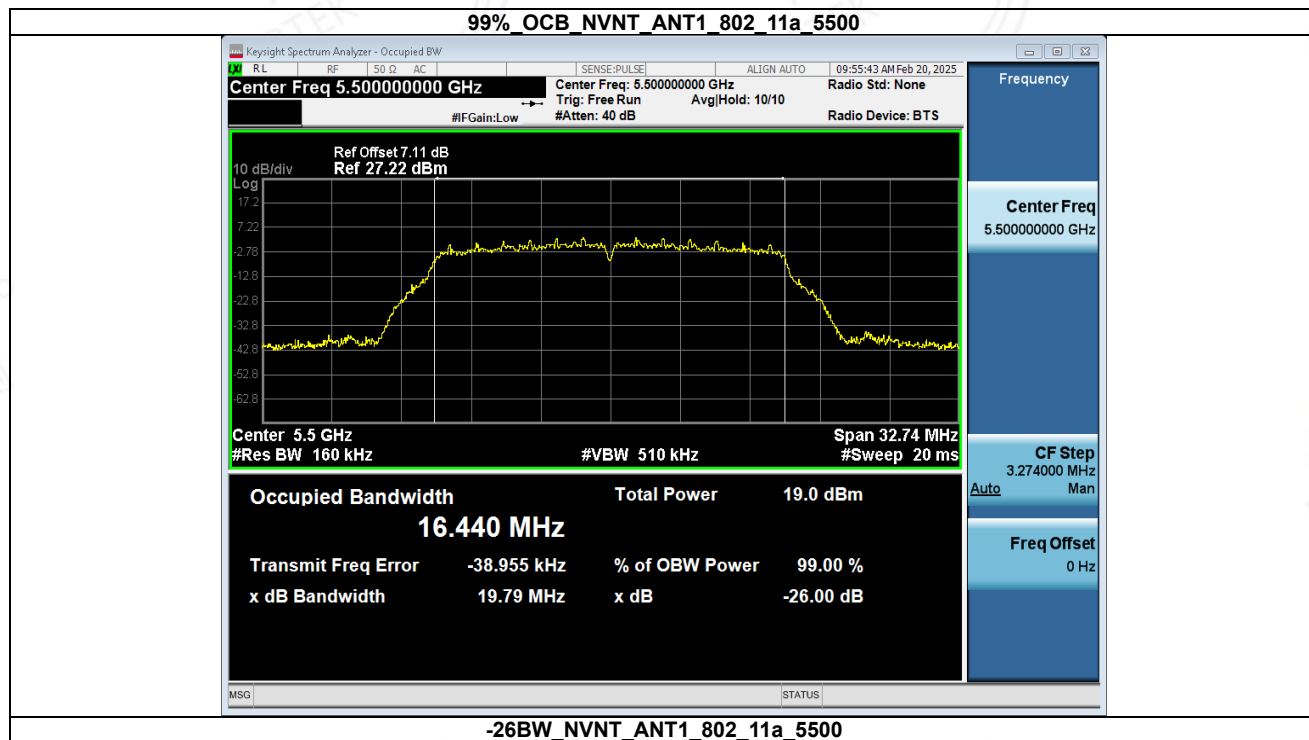
Table of Contents

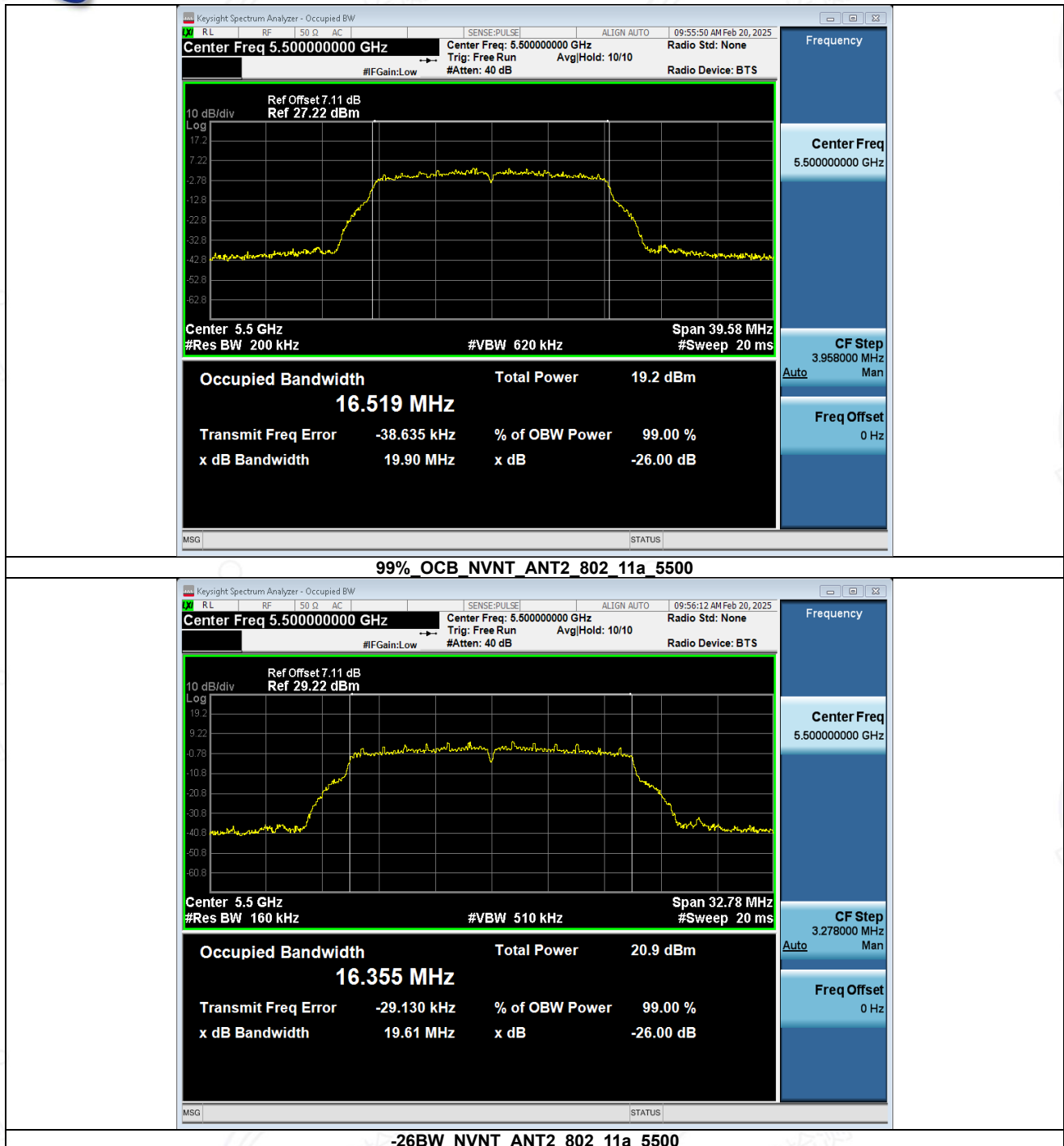
1. -26dB and 99% Emission Bandwidth	3
2. Duty Cycle	38
3. Maximum Conducted Output Power	56
4. Power Spectral Density	74
5. Bandedge	99
6. Spurious Emission	112
7. Frequency Stability	130

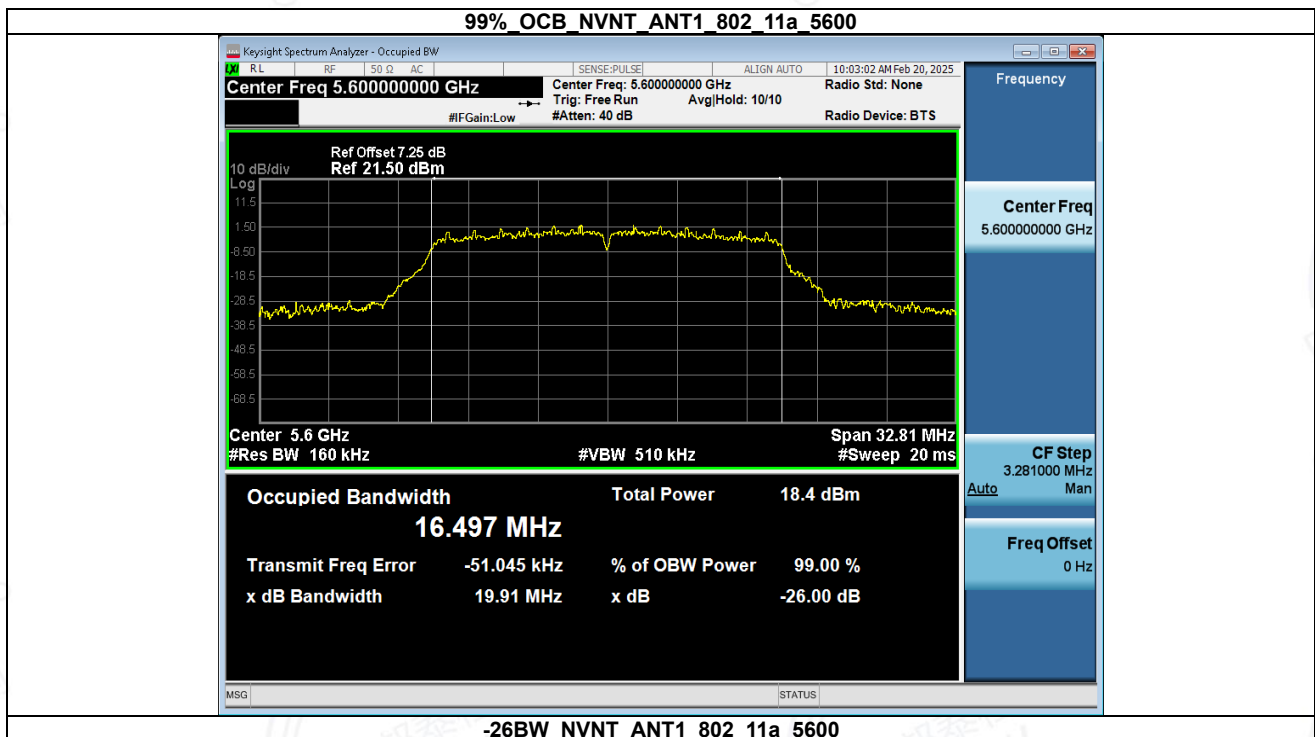
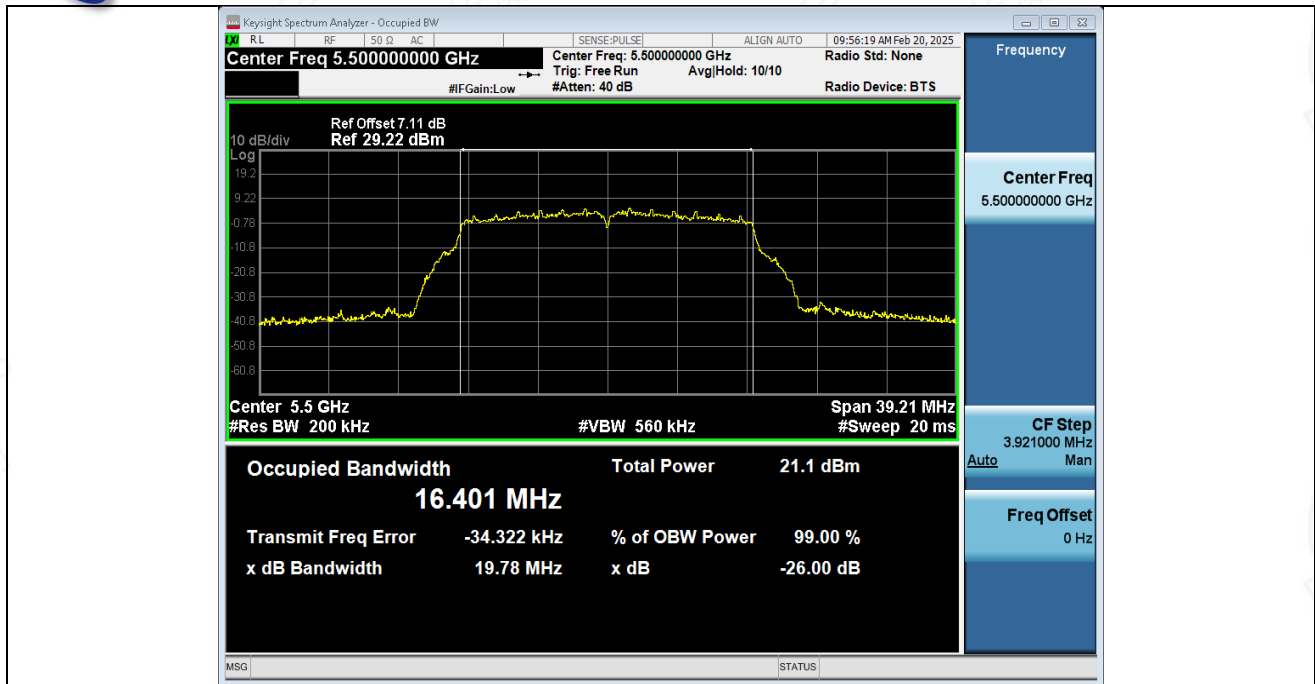


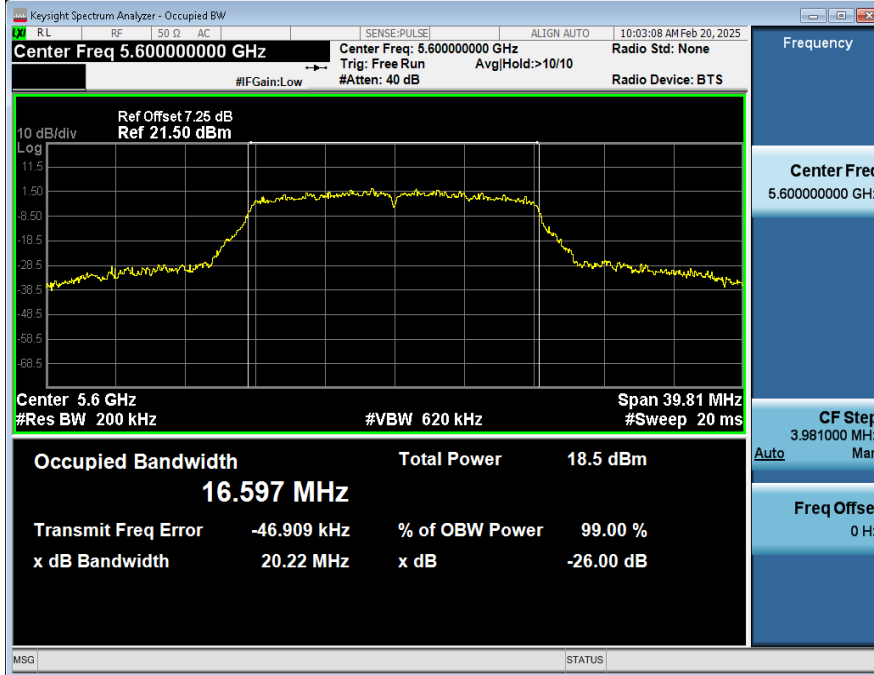
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5500.00	19.90	16.44
NVNT	ANT2	802.11a	5500.00	19.78	16.36
NVNT	ANT1	802.11a	5600.00	20.22	16.50
NVNT	ANT2	802.11a	5600.00	19.78	16.36
NVNT	ANT1	802.11a	5700.00	22.53	16.59
NVNT	ANT2	802.11a	5700.00	20.22	16.40
NVNT	ANT1	802.11n(HT20)	5500.00	20.12	17.55
NVNT	ANT2	802.11n(HT20)	5500.00	20.18	17.55
NVNT	ANT1	802.11n(HT20)	5600.00	20.09	17.56
NVNT	ANT2	802.11n(HT20)	5600.00	20.13	17.55
NVNT	ANT1	802.11n(HT20)	5700.00	20.21	17.58
NVNT	ANT2	802.11n(HT20)	5700.00	20.16	17.56
NVNT	ANT1	802.11ac(VHT20)	5500.00	20.16	17.55
NVNT	ANT2	802.11ac(VHT20)	5500.00	19.96	17.55
NVNT	ANT1	802.11ac(VHT20)	5600.00	20.10	17.55
NVNT	ANT2	802.11ac(VHT20)	5600.00	20.00	17.54
NVNT	ANT1	802.11ac(VHT20)	5700.00	20.20	17.58
NVNT	ANT2	802.11ac(VHT20)	5700.00	19.95	17.55
NVNT	ANT1	802.11n(HT40)	5510.00	40.33	35.99
NVNT	ANT2	802.11n(HT40)	5510.00	39.82	36.01
NVNT	ANT1	802.11n(HT40)	5590.00	40.57	36.03
NVNT	ANT2	802.11n(HT40)	5590.00	40.03	36.02
NVNT	ANT1	802.11n(HT40)	5670.00	41.44	36.09
NVNT	ANT2	802.11n(HT40)	5670.00	39.95	36.04
NVNT	ANT1	802.11ac(VHT40)	5510.00	40.39	35.98
NVNT	ANT2	802.11ac(VHT40)	5510.00	40.05	36.00
NVNT	ANT1	802.11ac(VHT40)	5590.00	40.67	36.02
NVNT	ANT2	802.11ac(VHT40)	5590.00	39.86	36.02
NVNT	ANT1	802.11ac(VHT40)	5670.00	40.94	36.10
NVNT	ANT2	802.11ac(VHT40)	5670.00	39.80	36.02
NVNT	ANT1	802.11ac(VHT80)	5530.00	81.52	75.59
NVNT	ANT2	802.11ac(VHT80)	5530.00	80.40	75.17
NVNT	ANT1	802.11ac(VHT80)	5610.00	81.92	75.76
NVNT	ANT2	802.11ac(VHT80)	5610.00	80.53	75.21

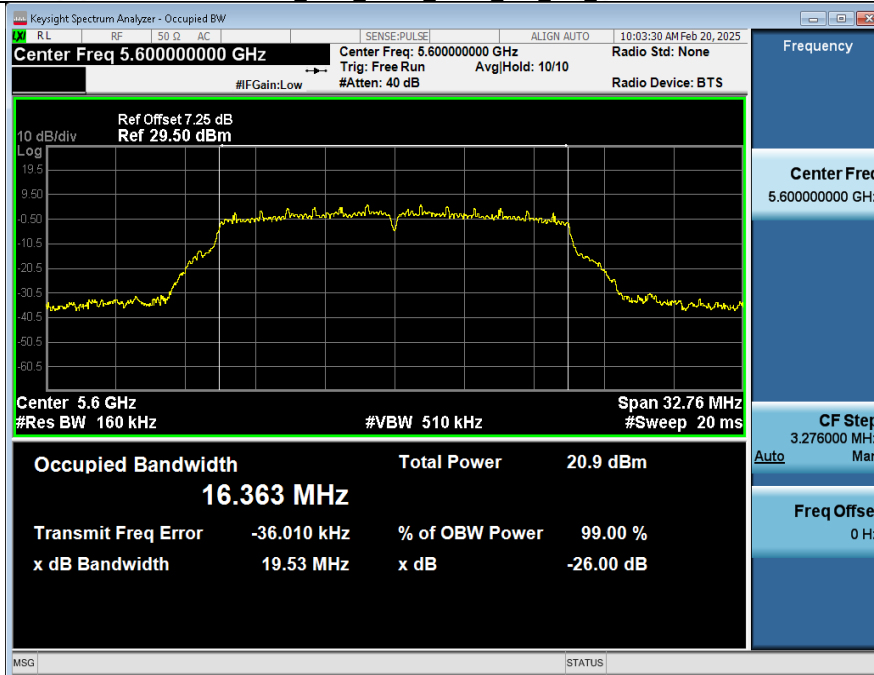






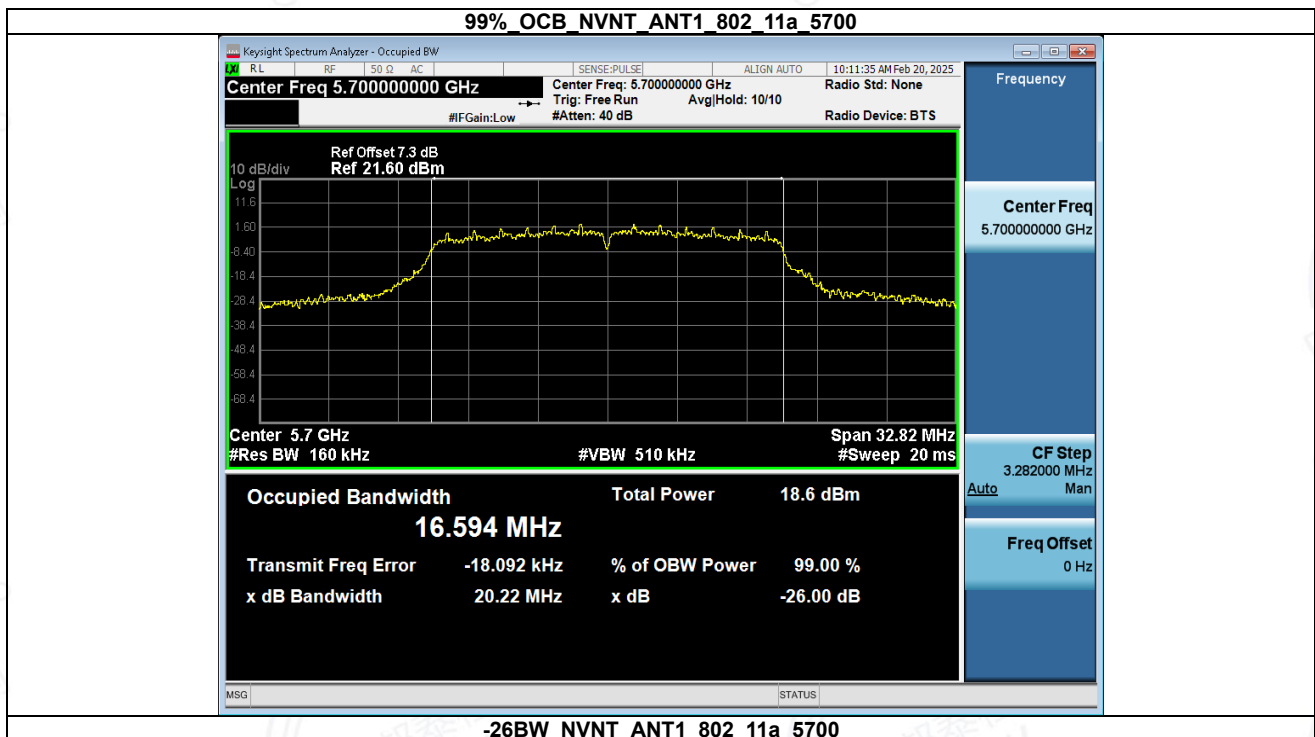
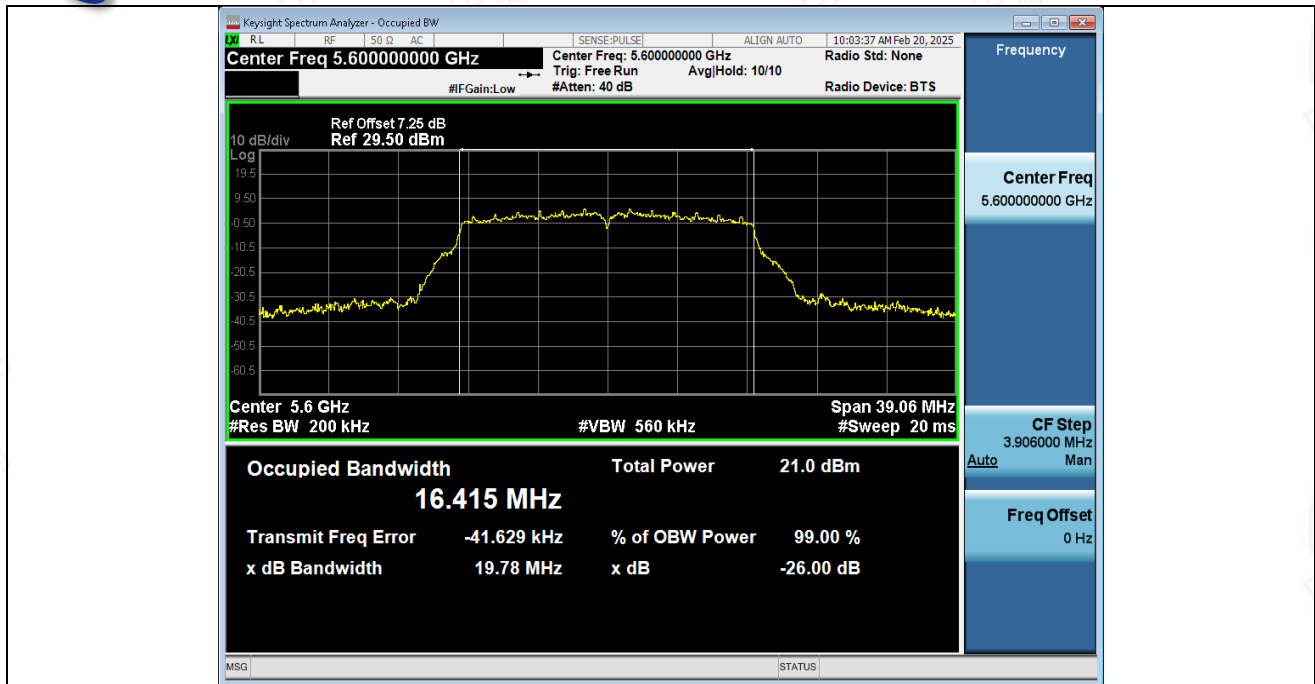


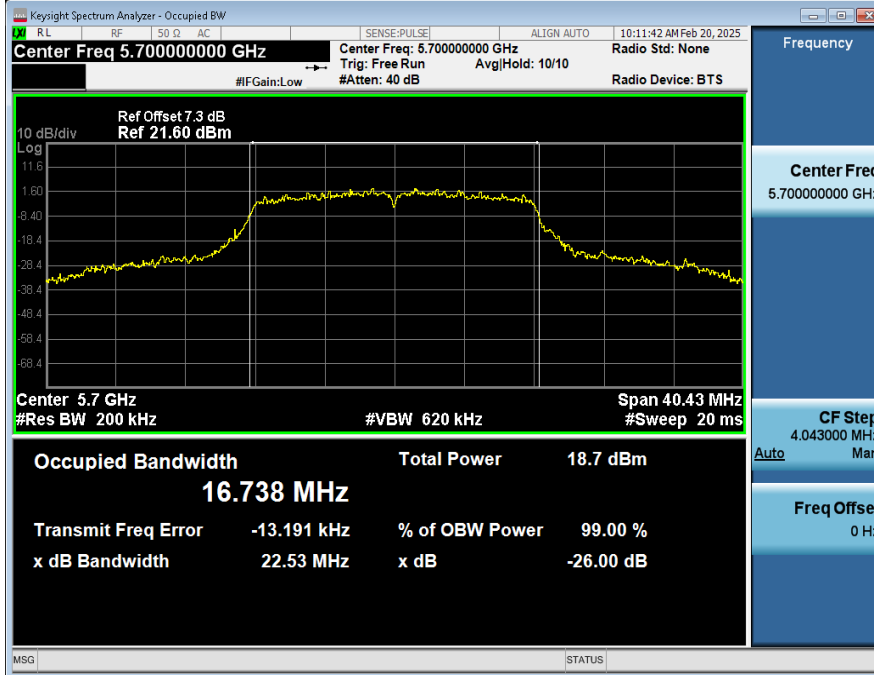
99%_OCB_NVNT_ANT2_802_11a_5600



-26BW_NVNT_ANT2_802_11a_5600





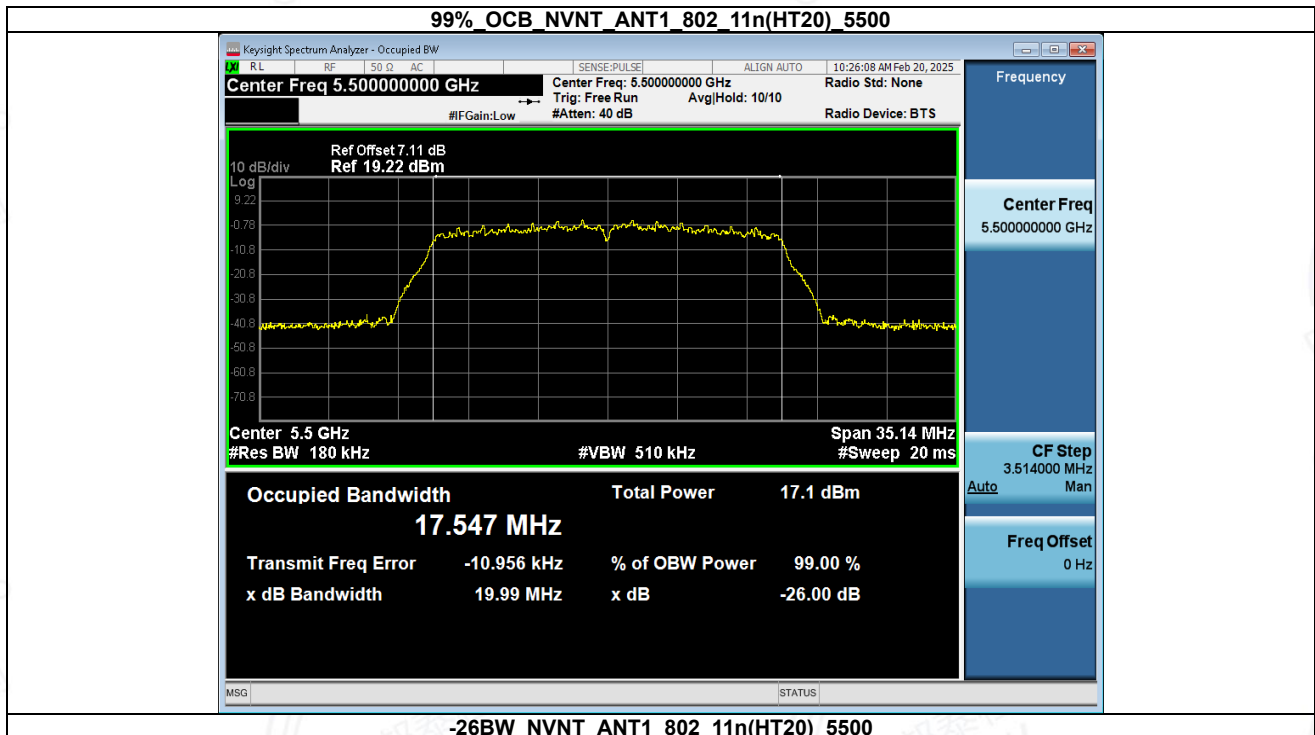
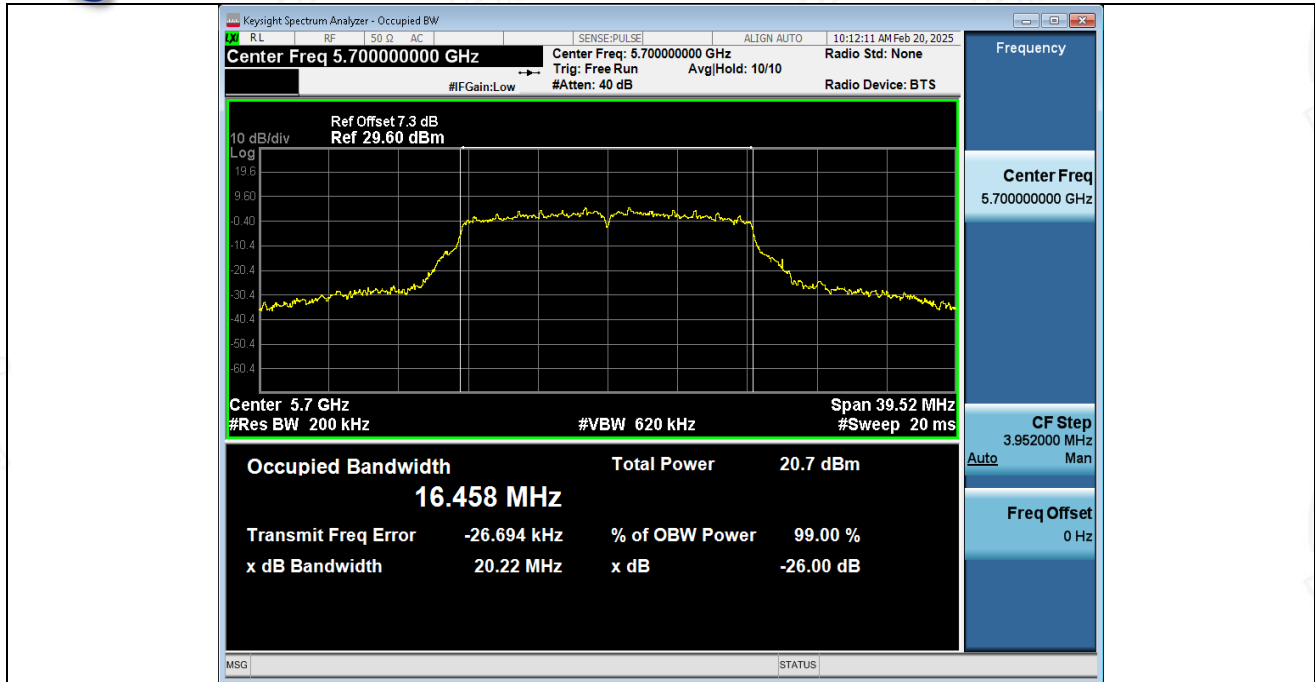


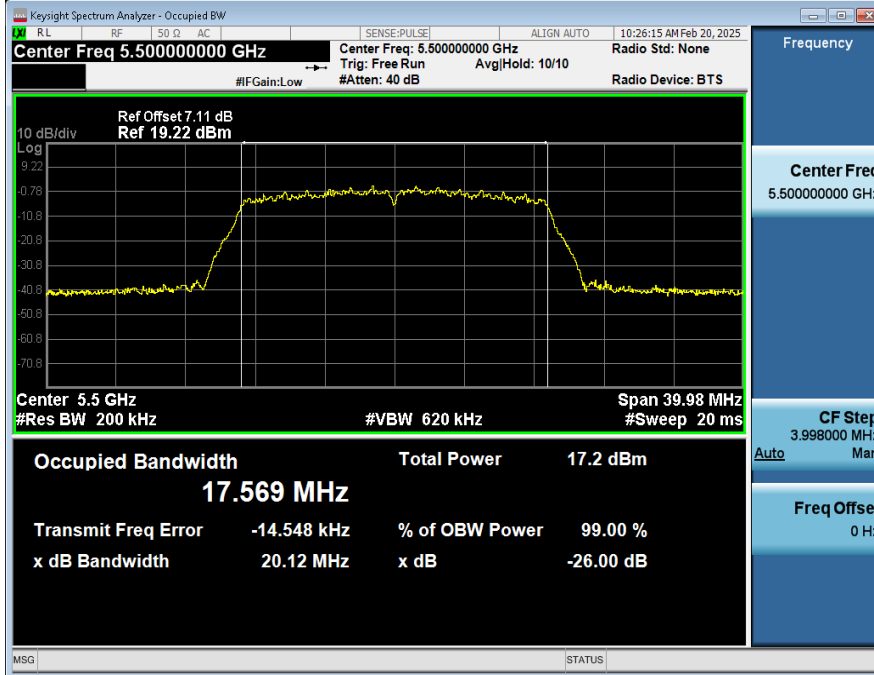
99%_OCB_NVNT_ANT2_802_11a_5700



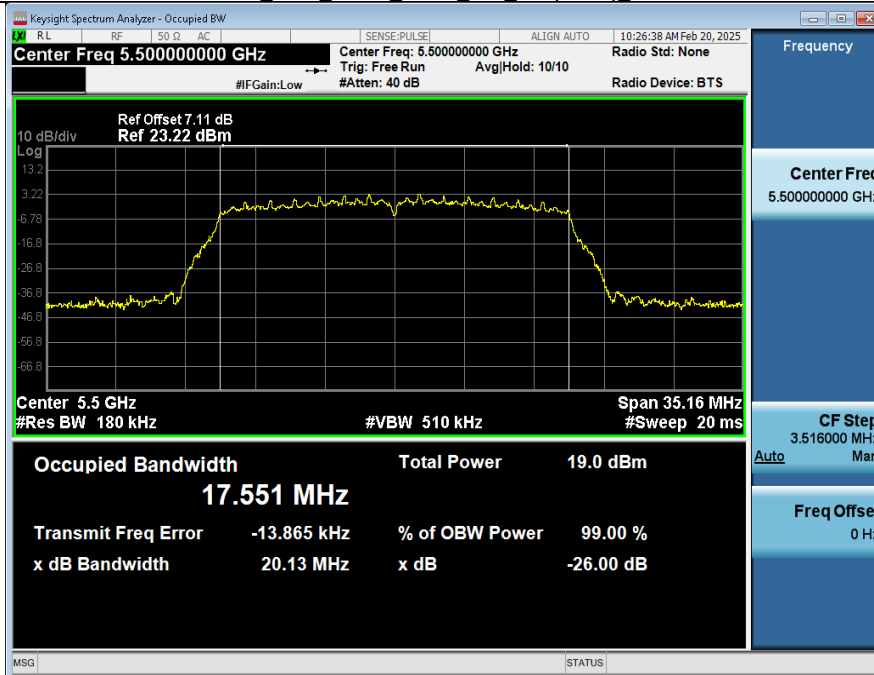
-26BW_NVNT_ANT2_802_11a_5700





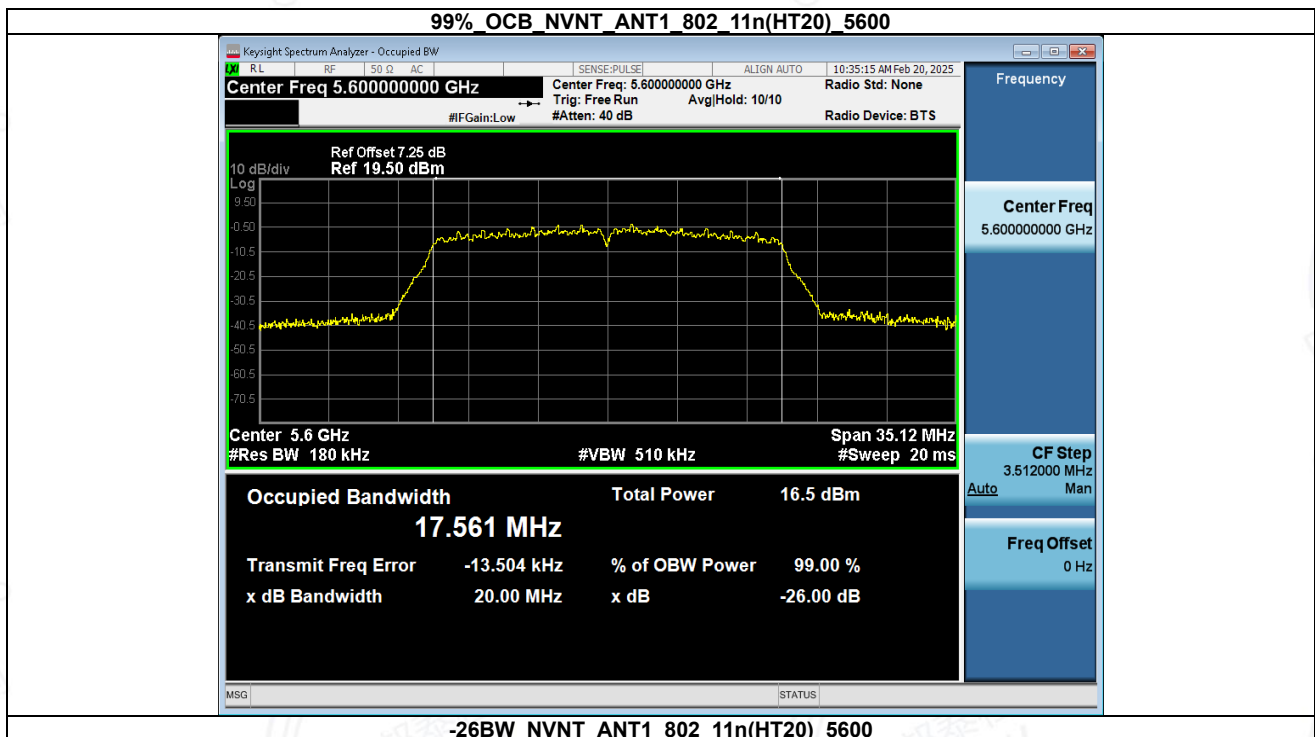
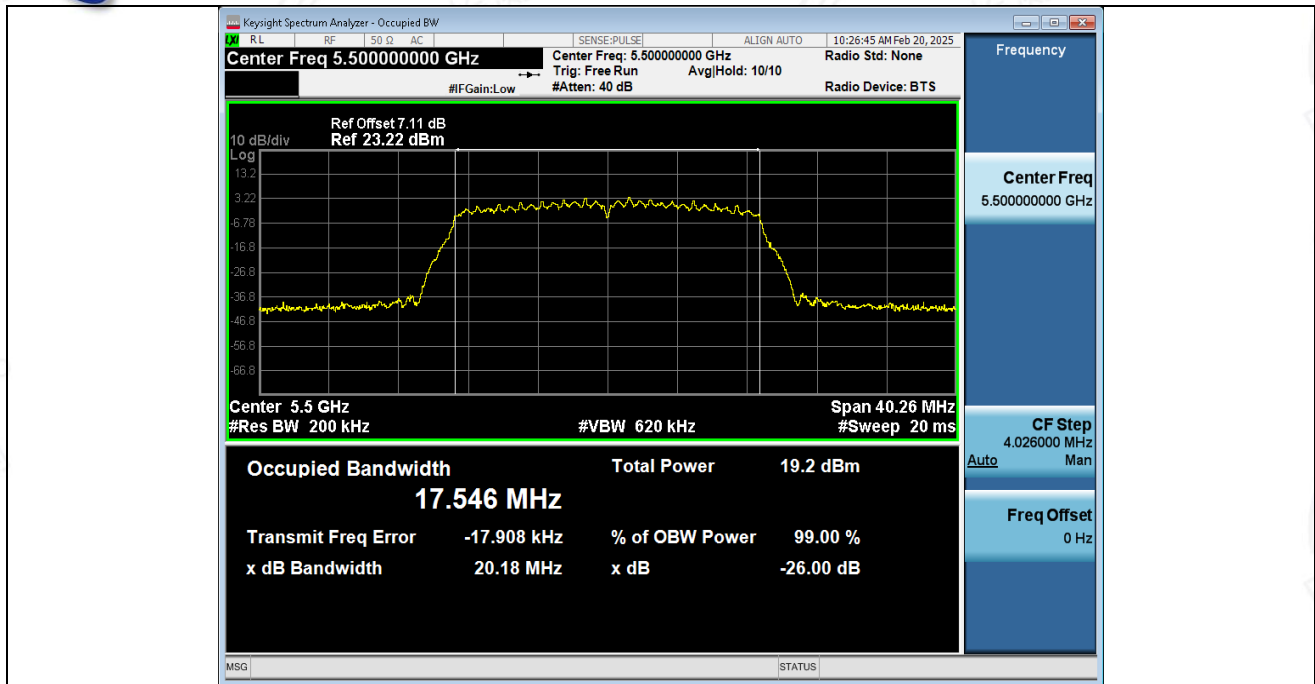


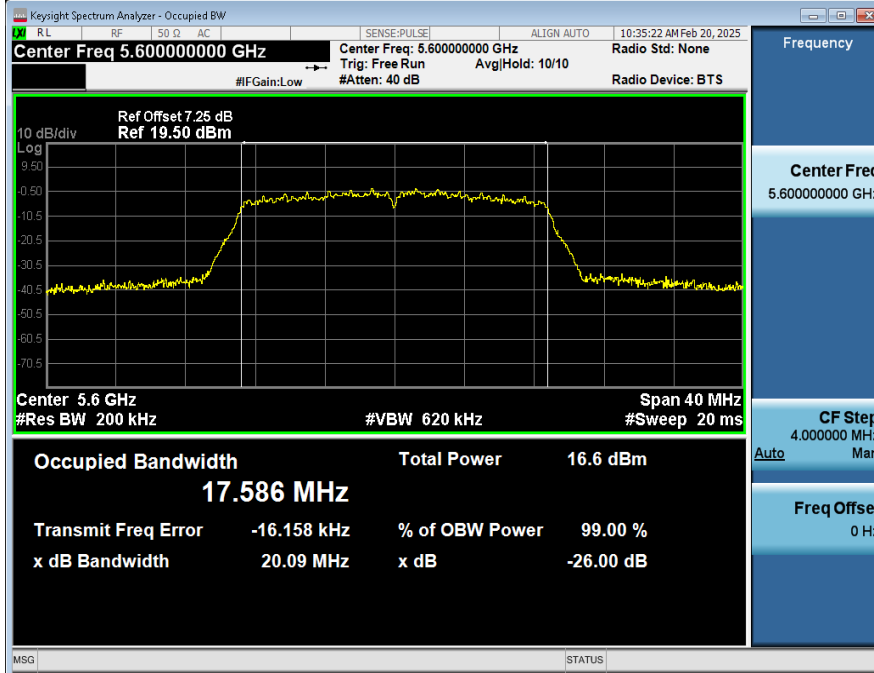
99%_OCB_NVNT_ANT2_802_11n(HT20)_5500



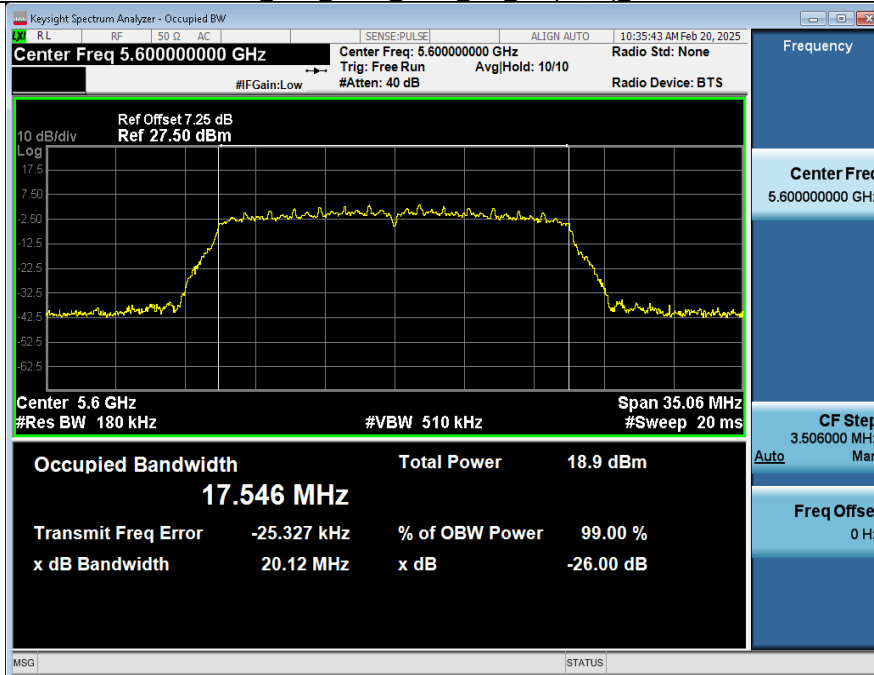
-26BW_NVNT_ANT2_802_11n(HT20)_5500





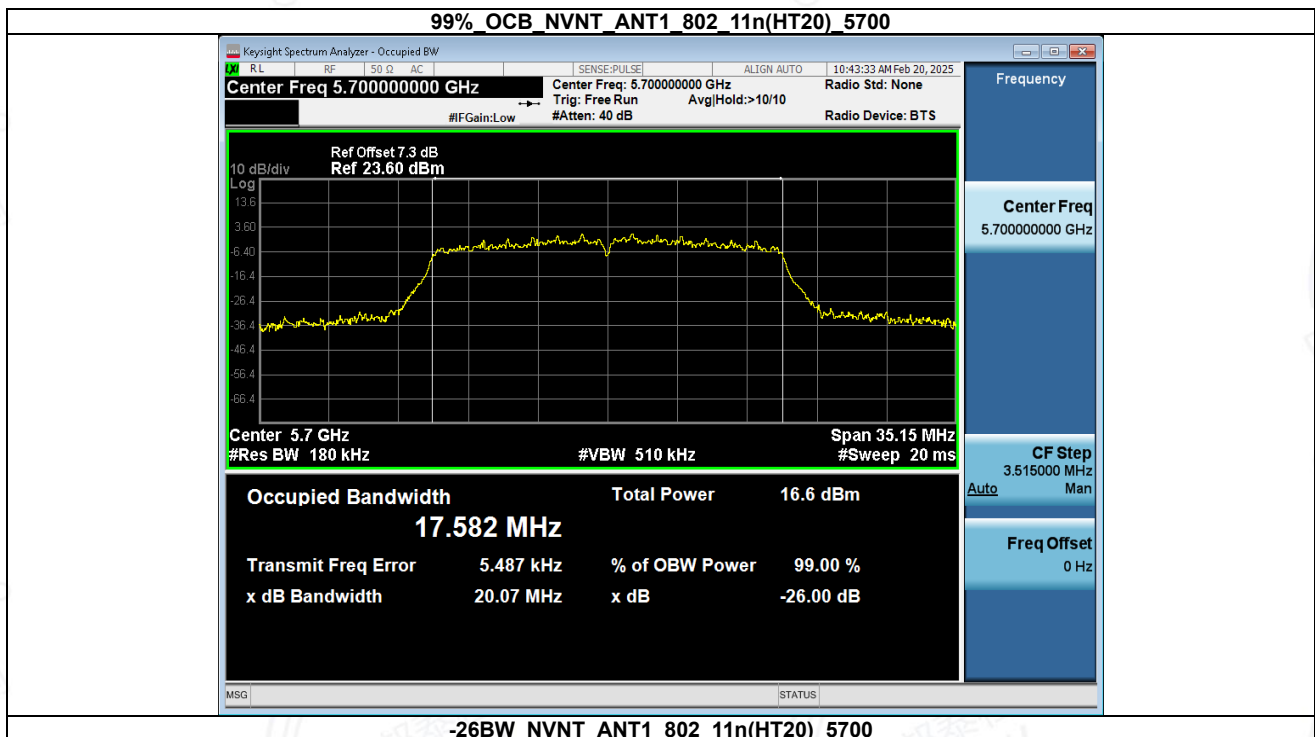
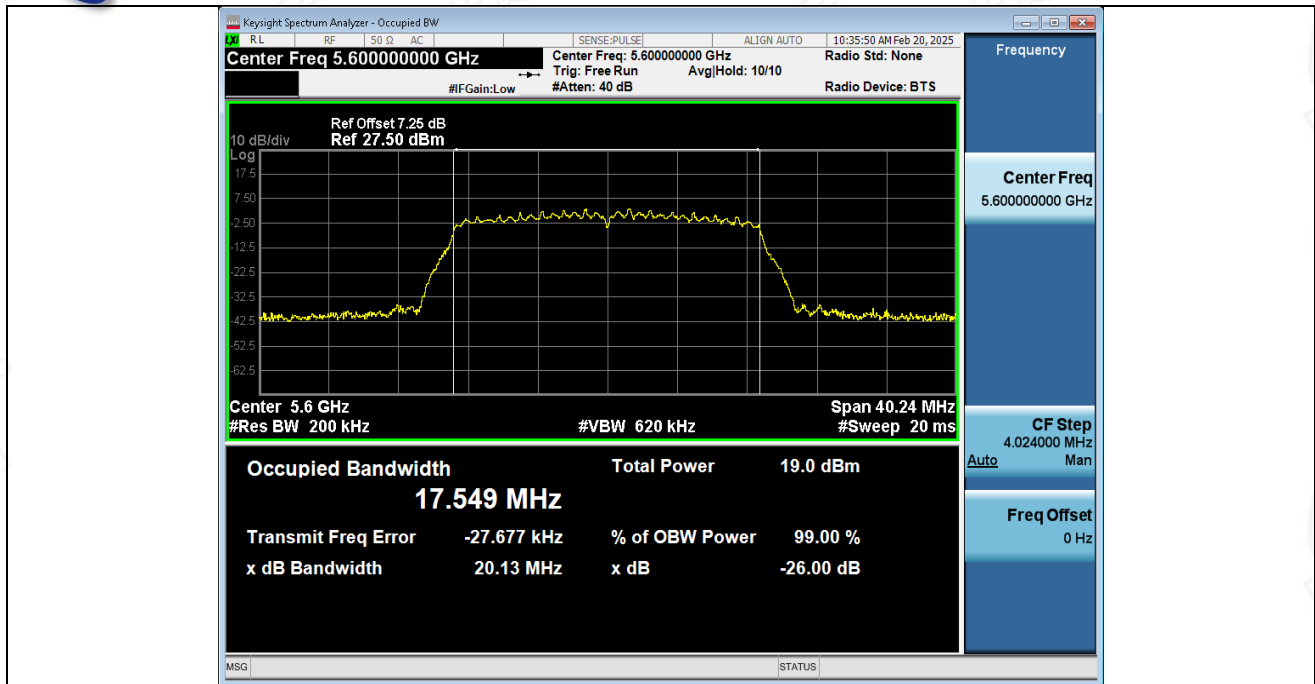


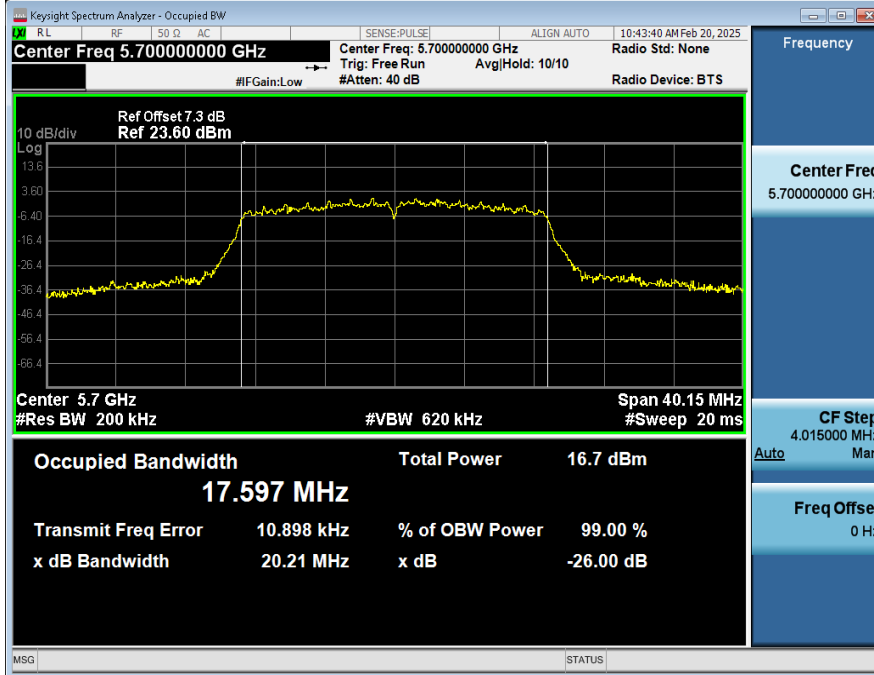
99%_OCB_NVNT_ANT2_802_11n(HT20)_5600



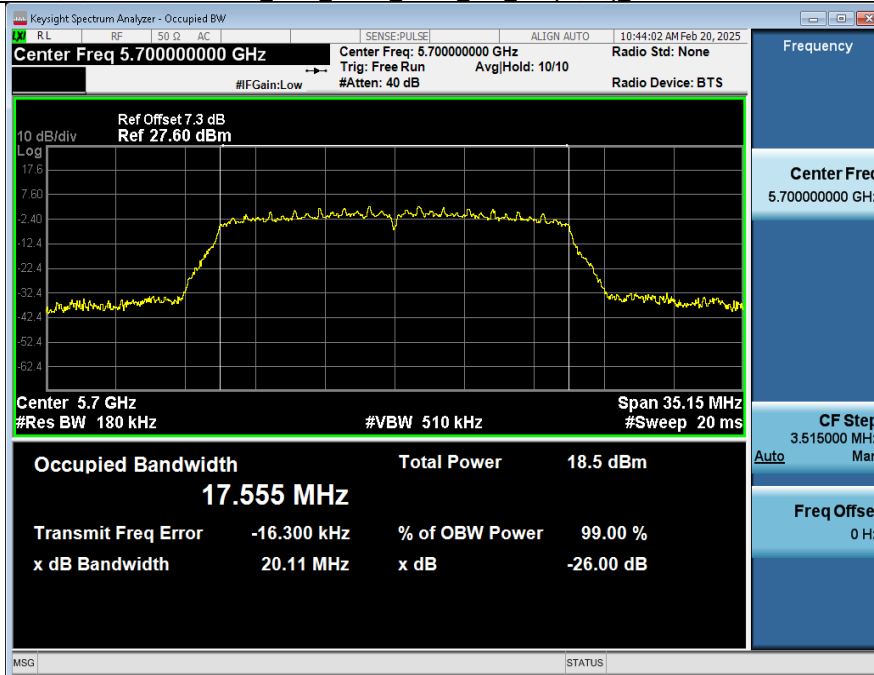
-26BW_NVNT_ANT2_802_11n(HT20)_5600





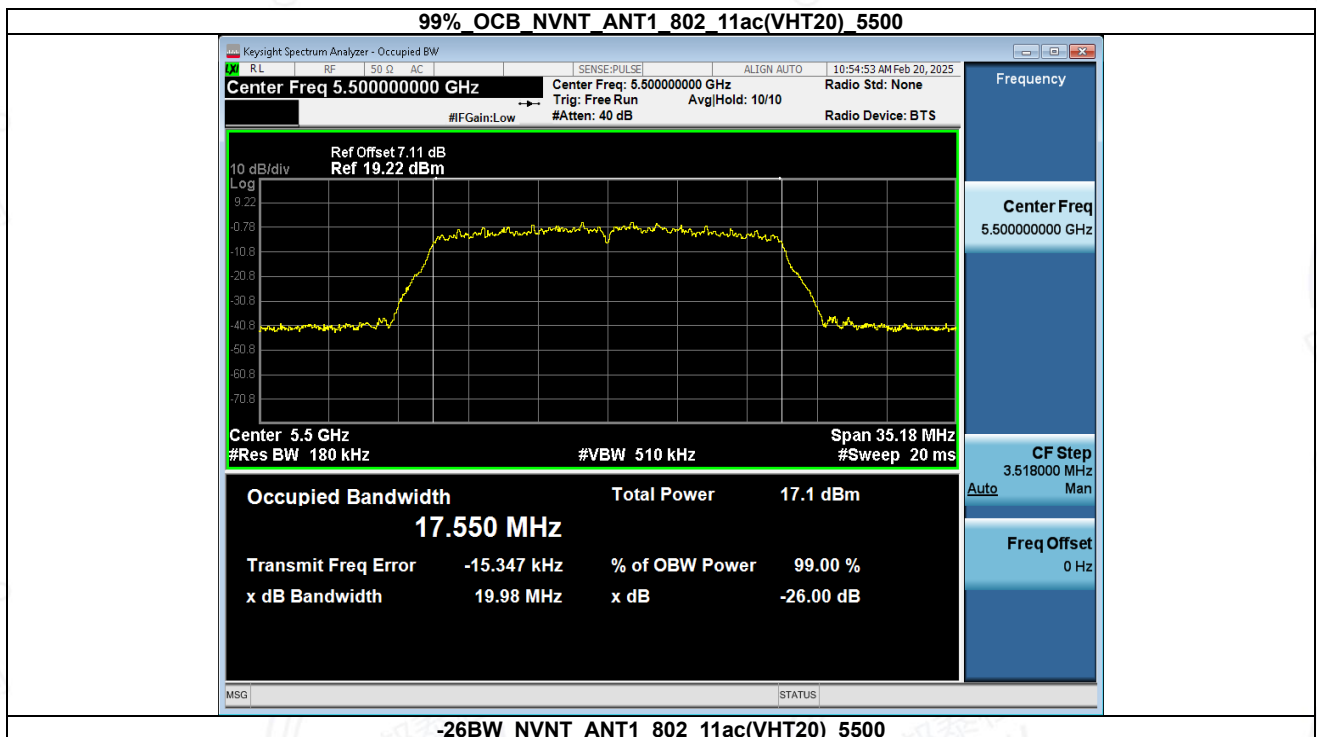


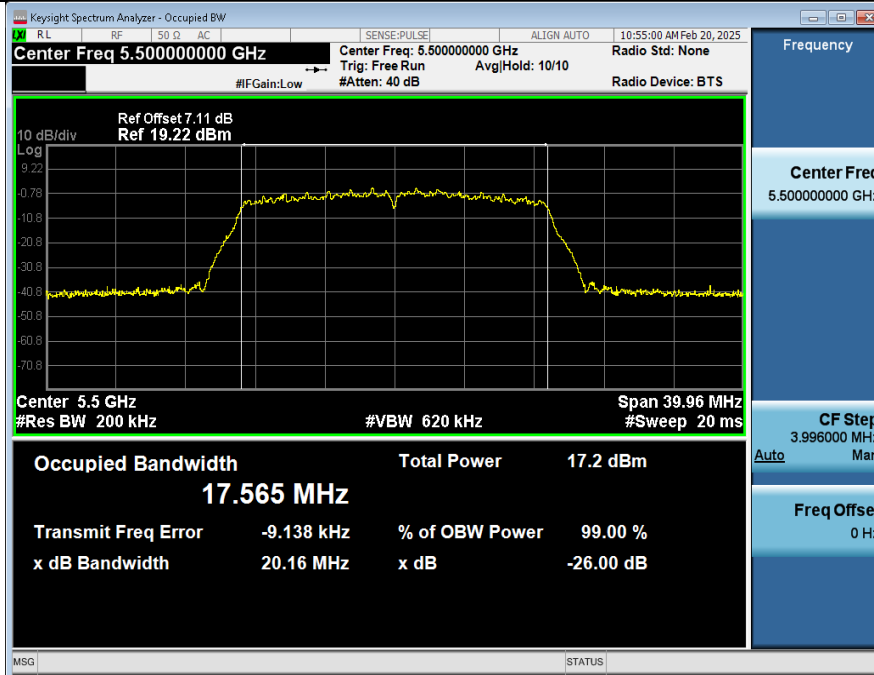
99%_OCB_NVNT_ANT2_802_11n(HT20)_5700



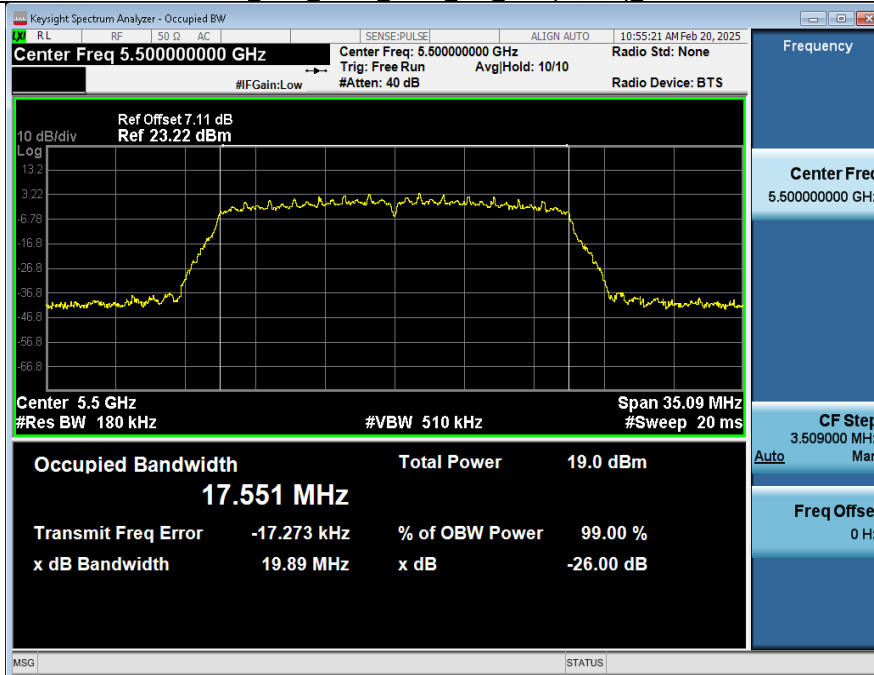
-26BW_NVNT_ANT2_802_11n(HT20)_5700





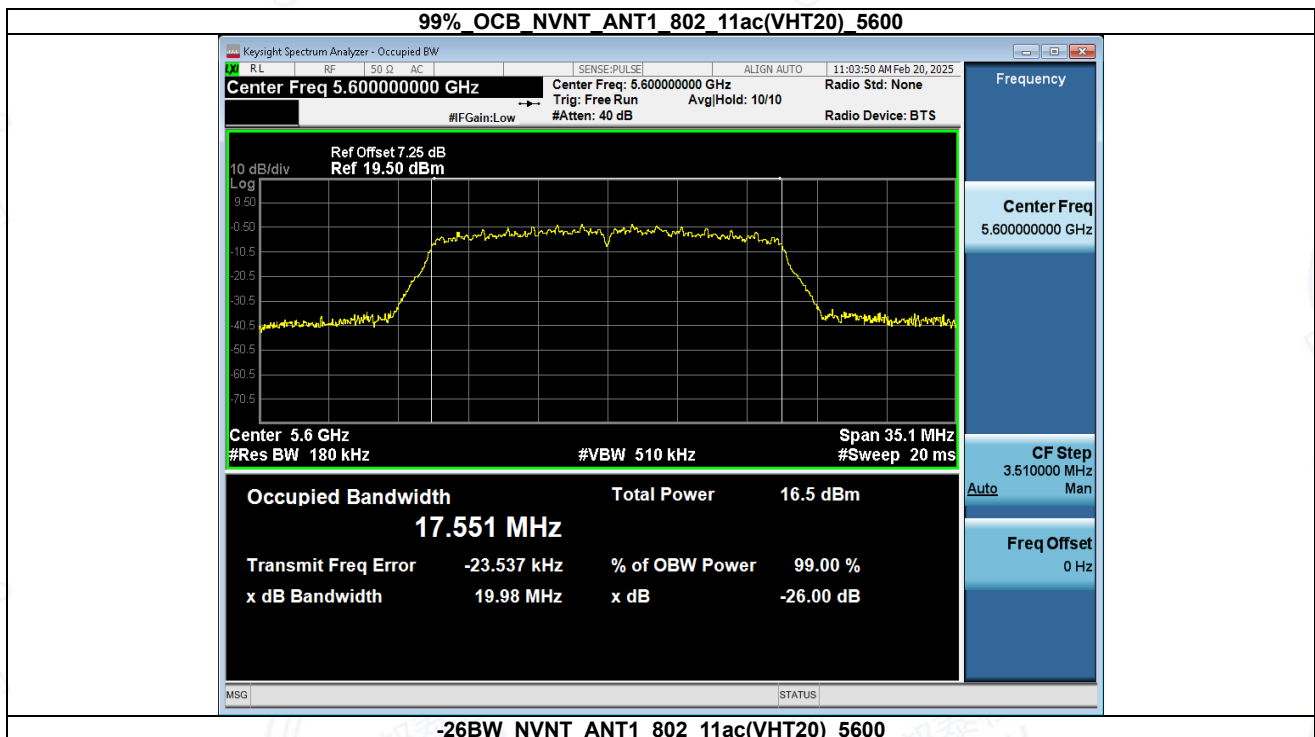
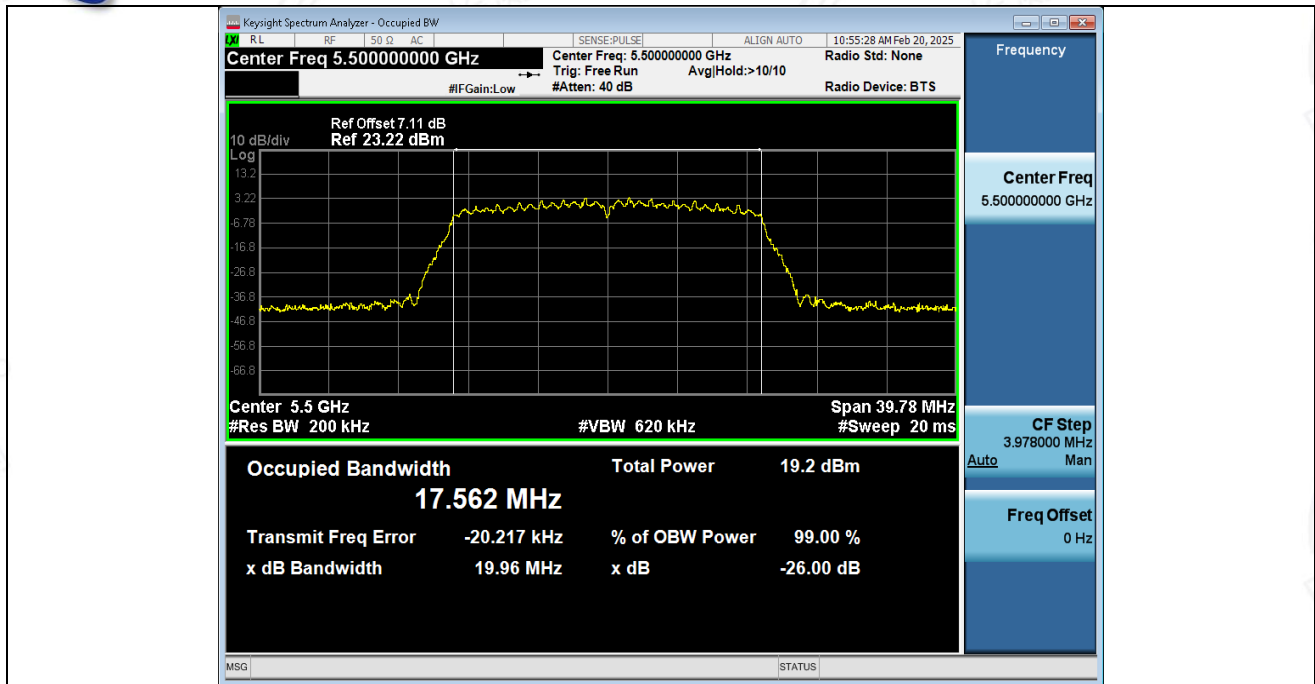


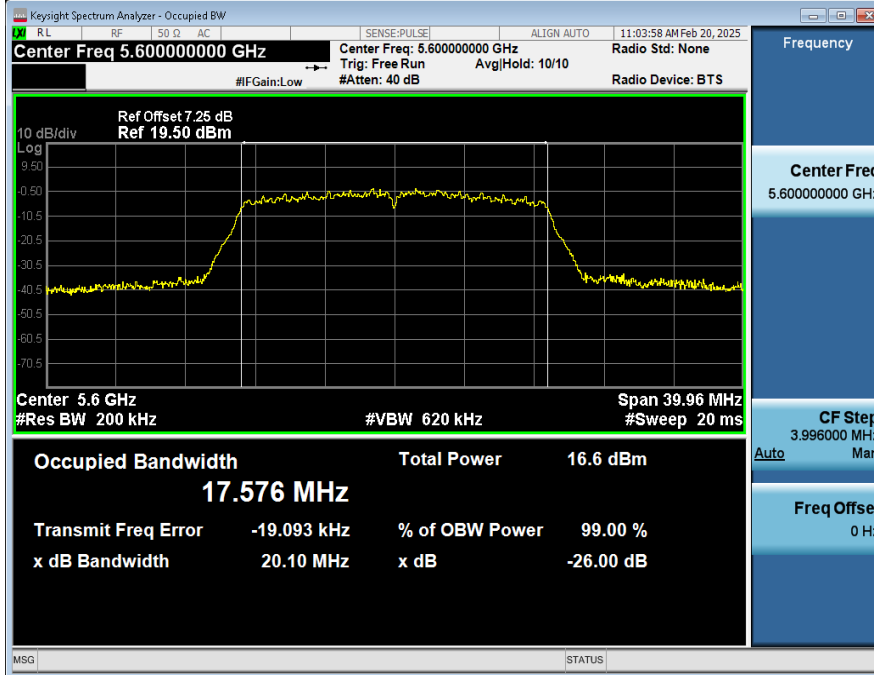
99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5500



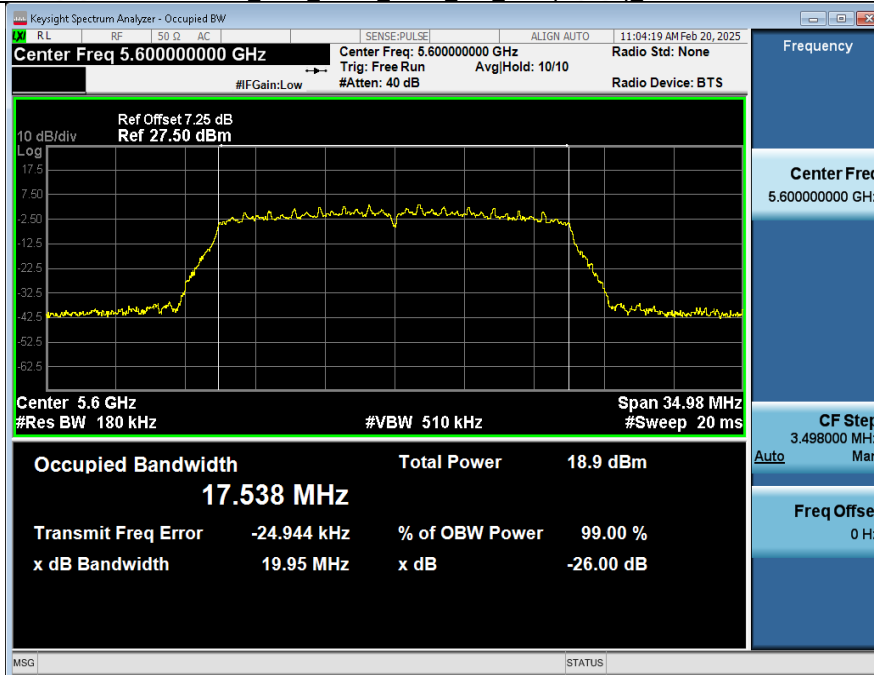
-26BW_NVNT_ANT2_802_11ac(VHT20)_5500





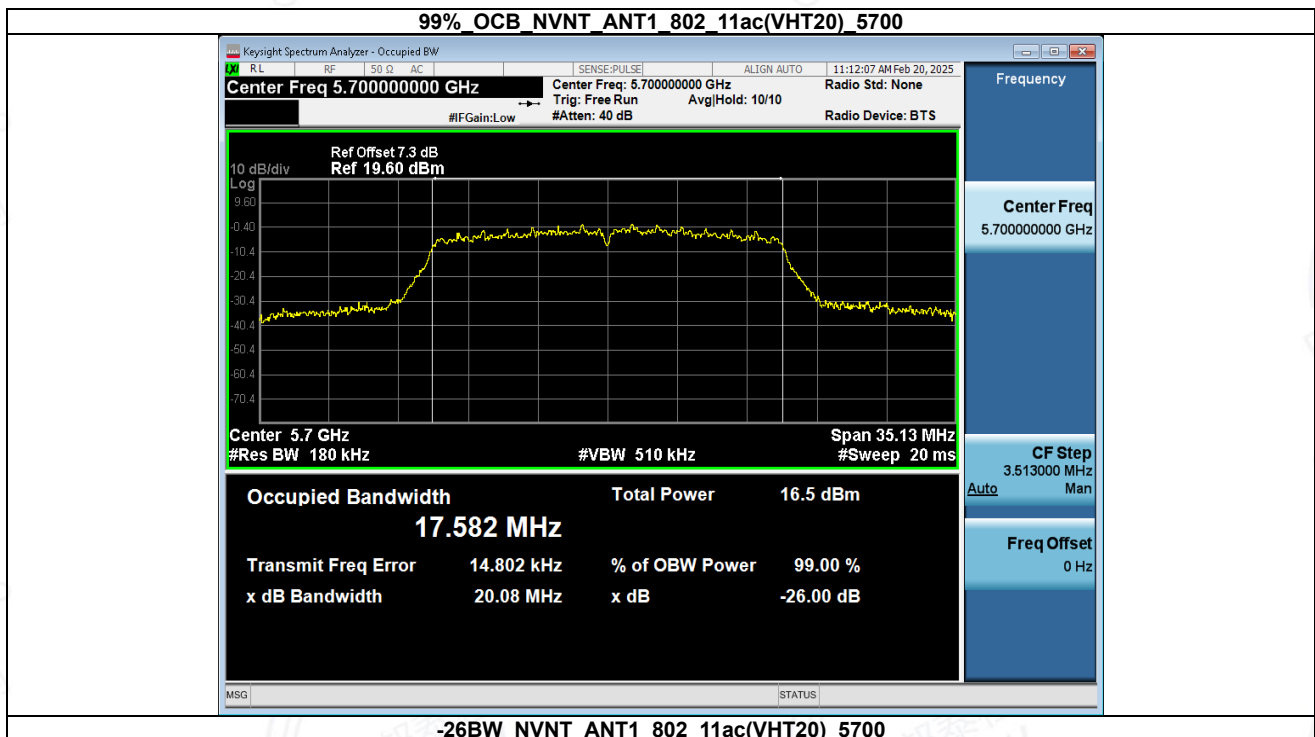
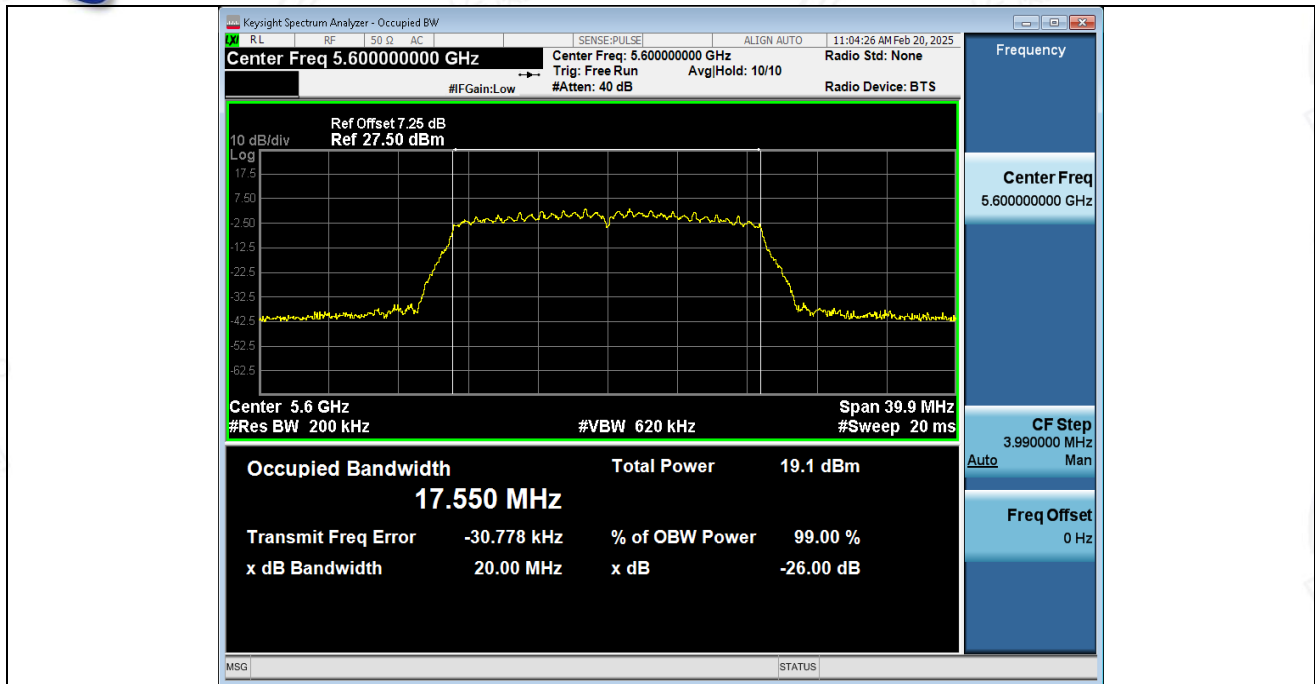


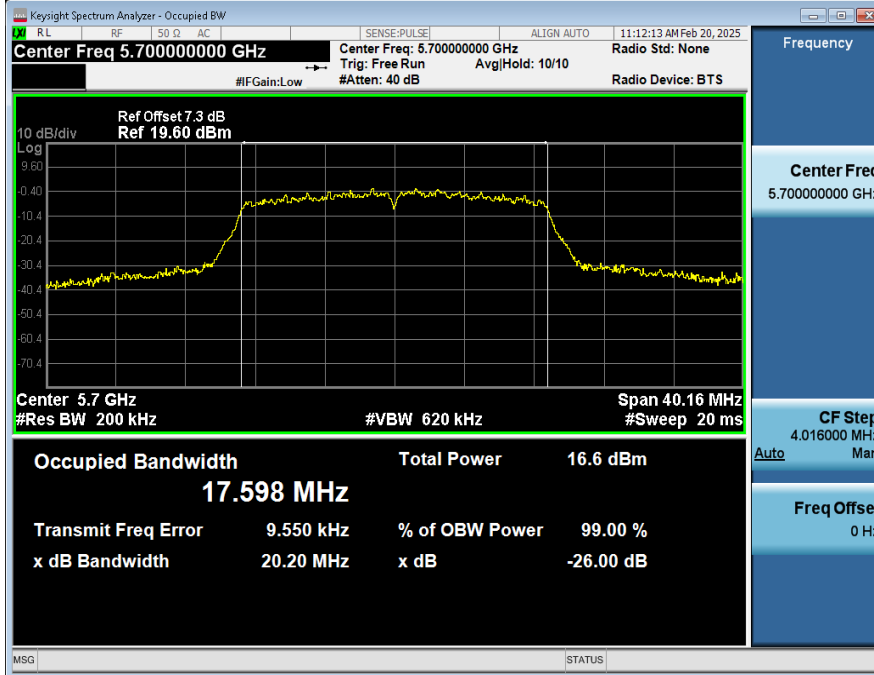
99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5600



-26BW_NVNT_ANT2_802_11ac(VHT20)_5600





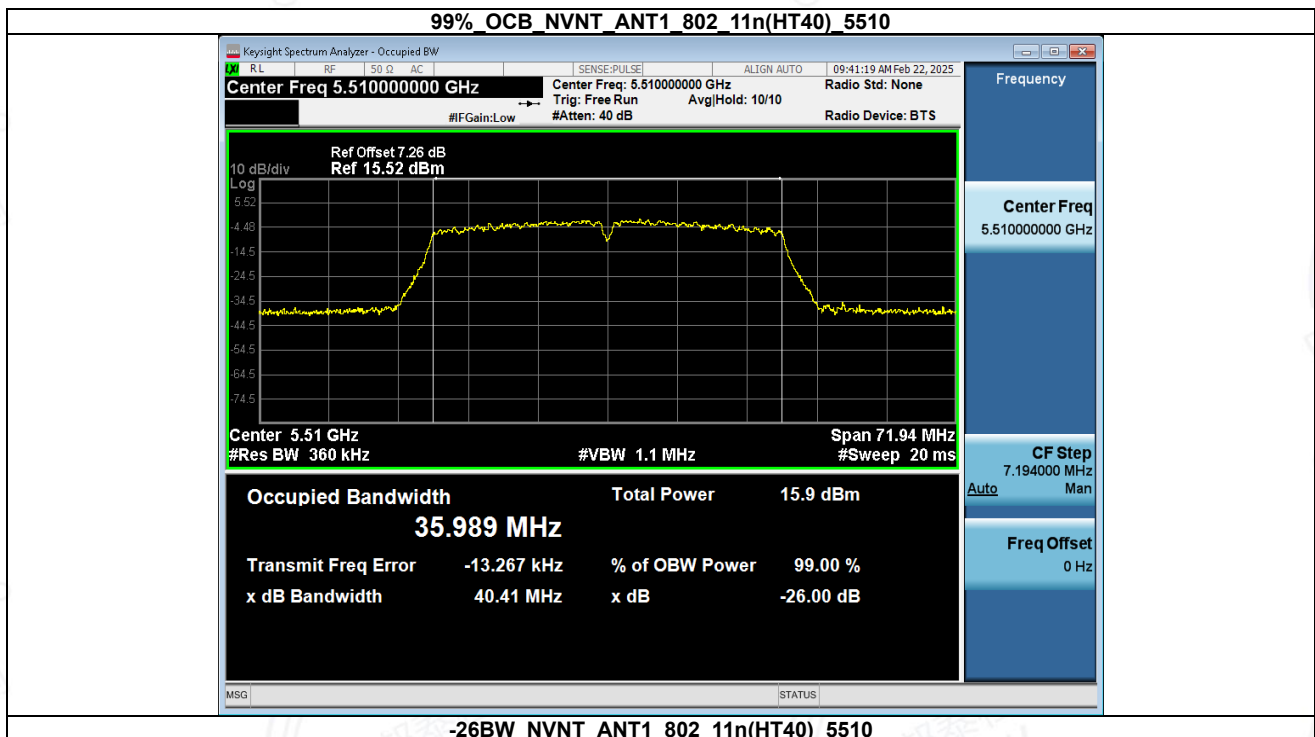
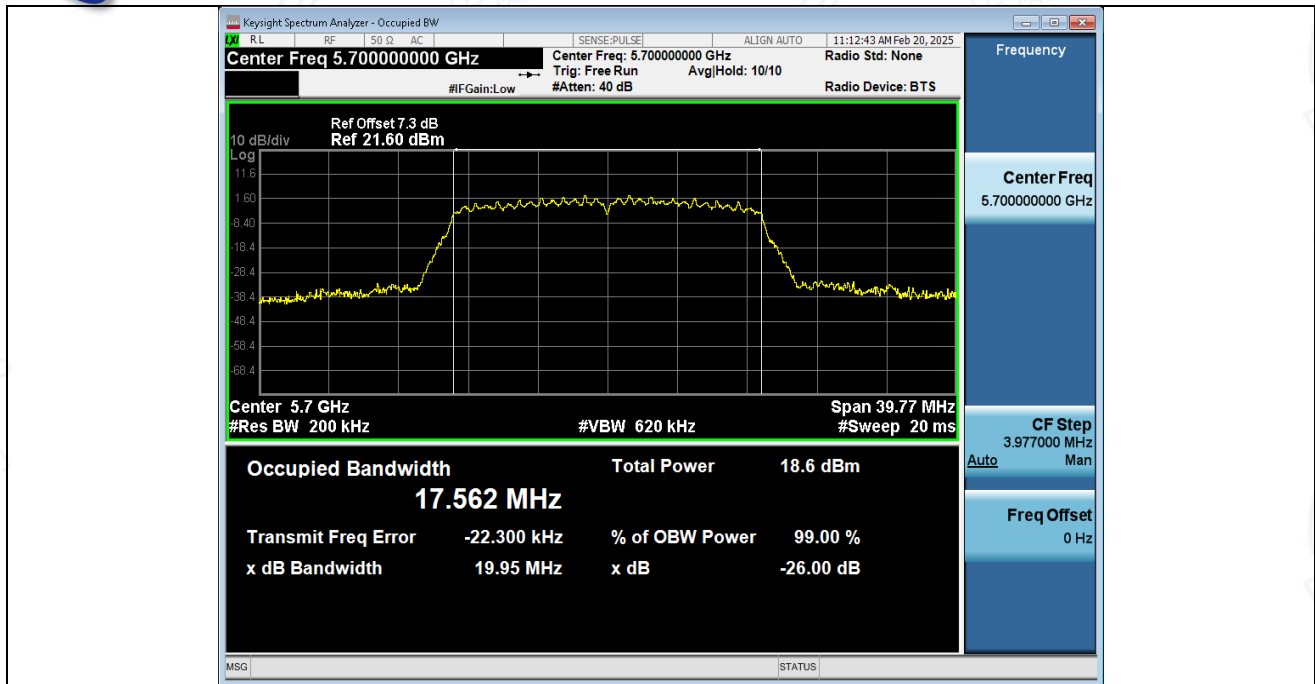


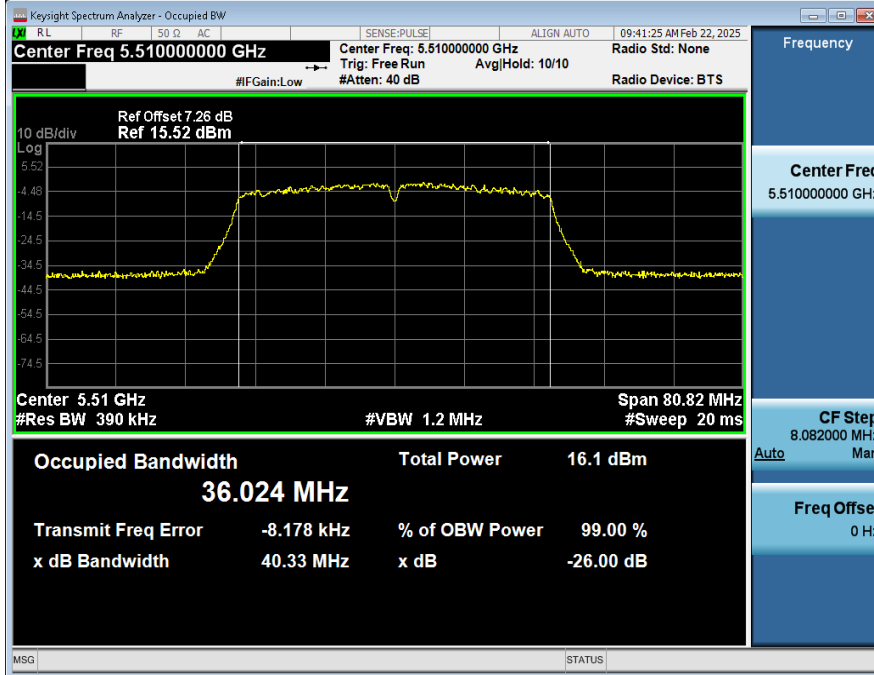
99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5700



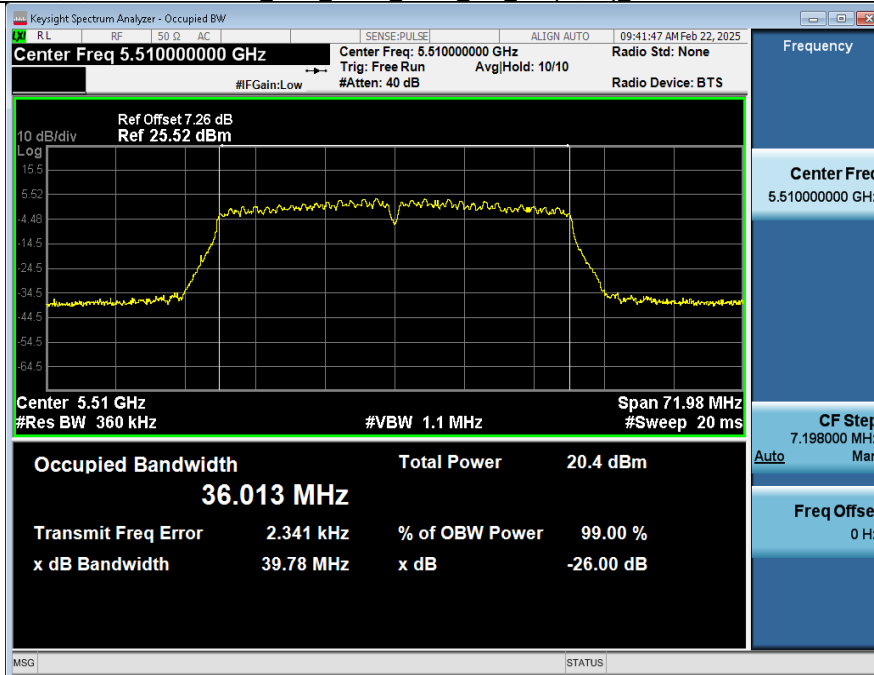
-26BW_NVNT_ANT2_802_11ac(VHT20)_5700





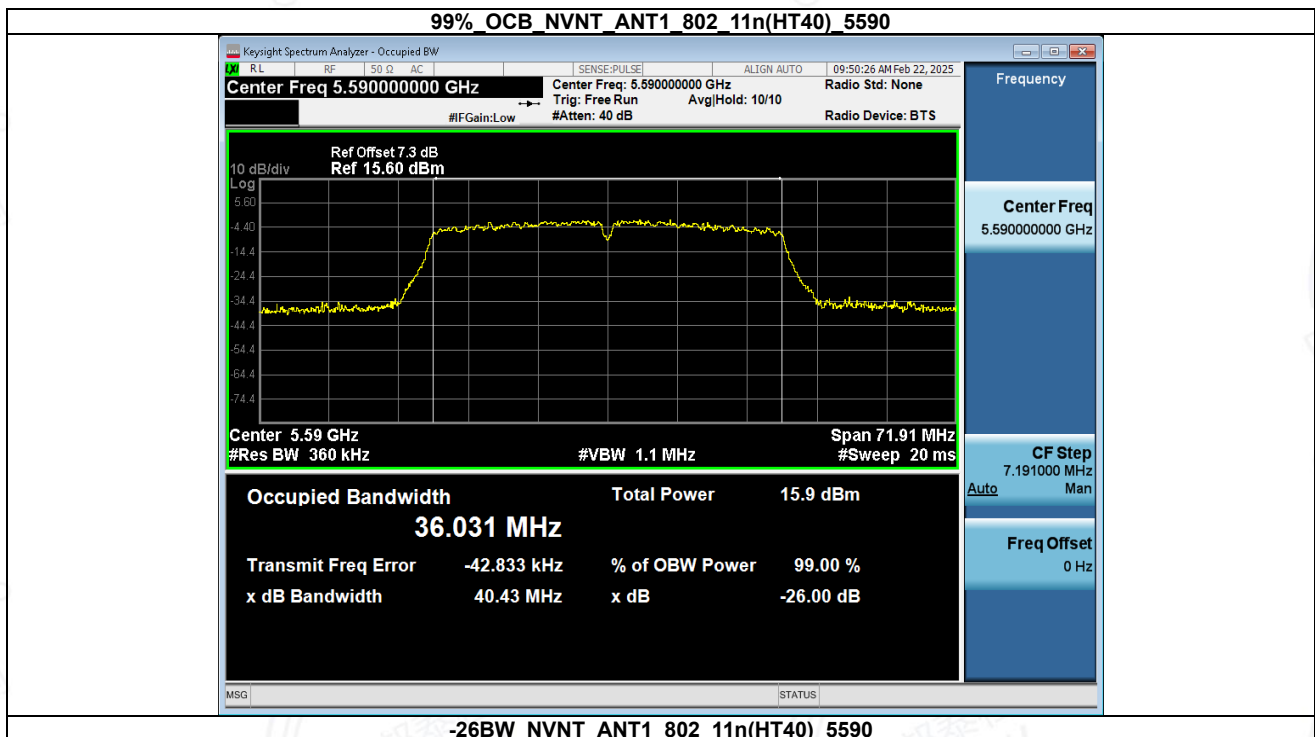
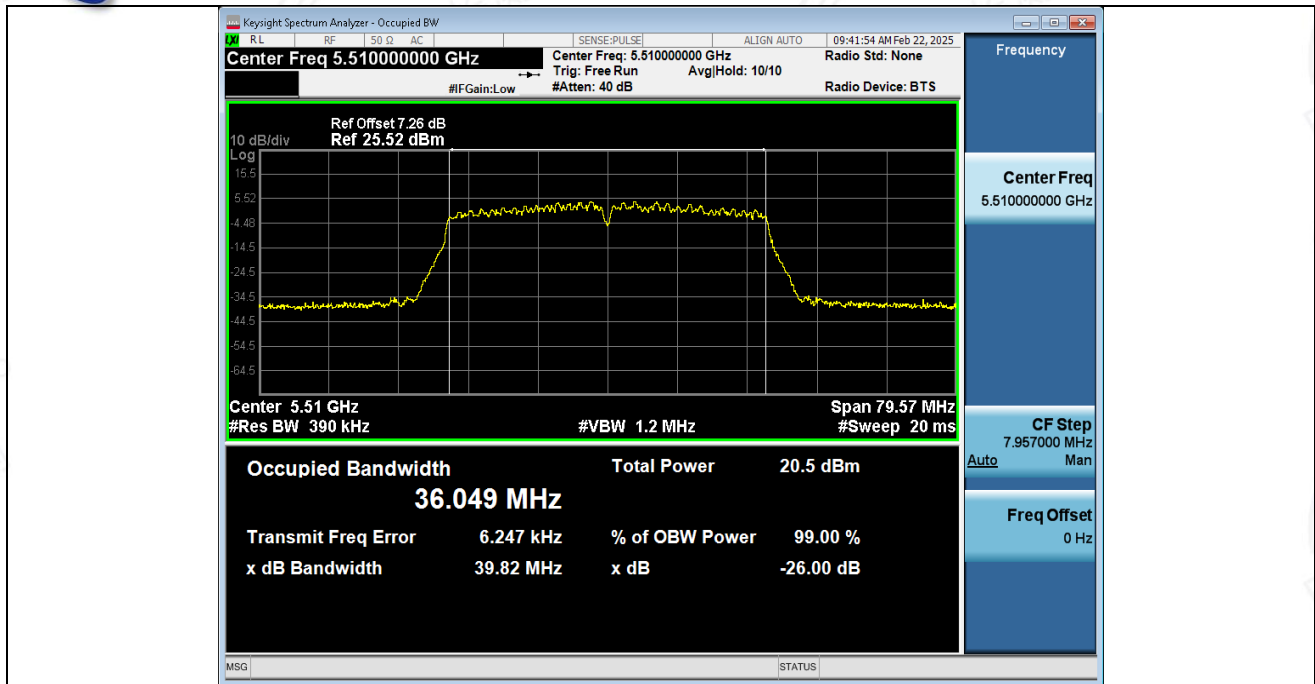


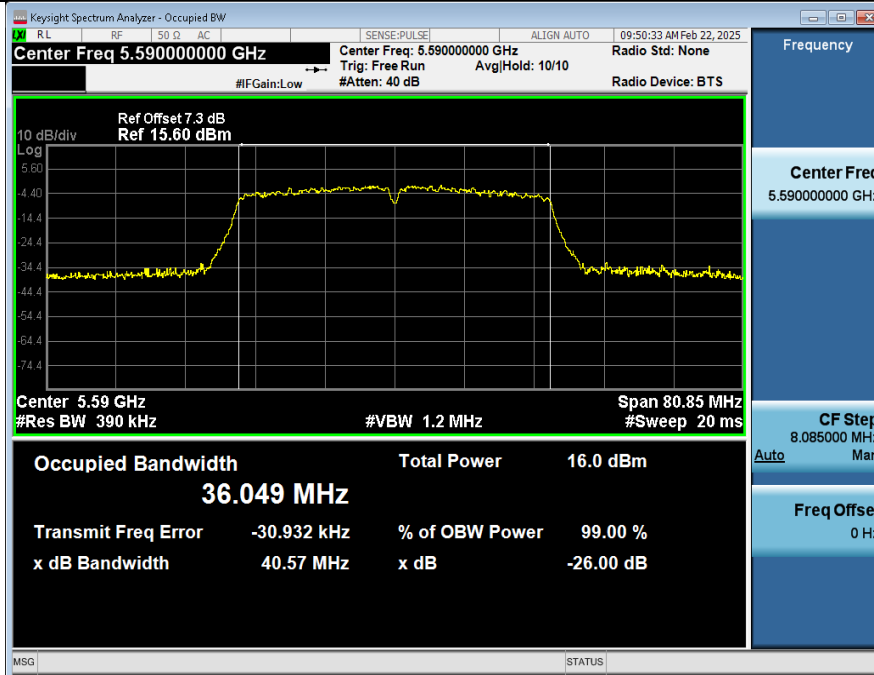
99%_OCB_NVNT_ANT2_802_11n(HT40)_5510



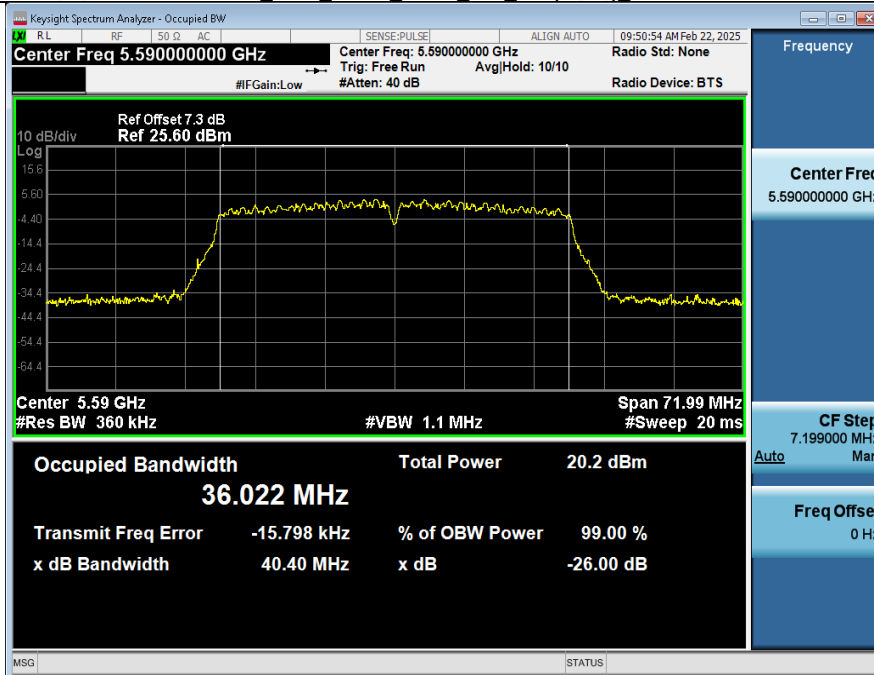
-26BW_NVNT_ANT2_802_11n(HT40)_5510





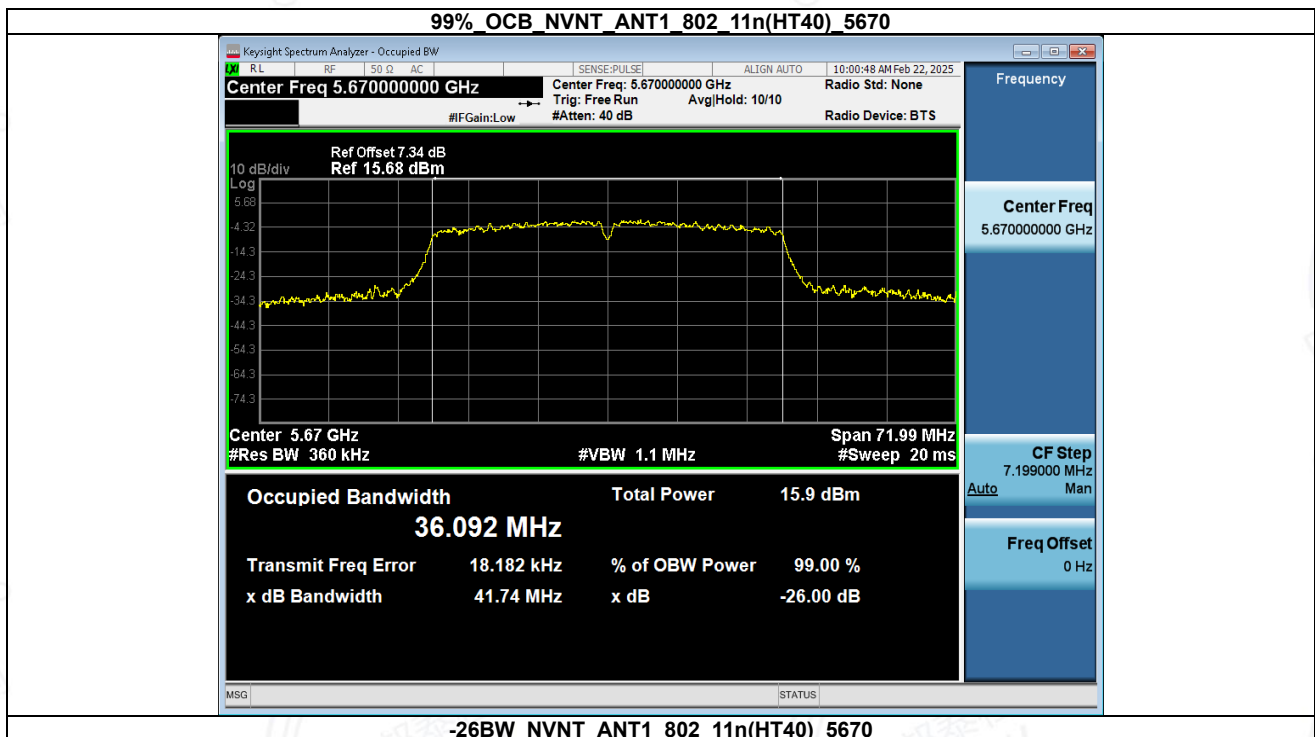
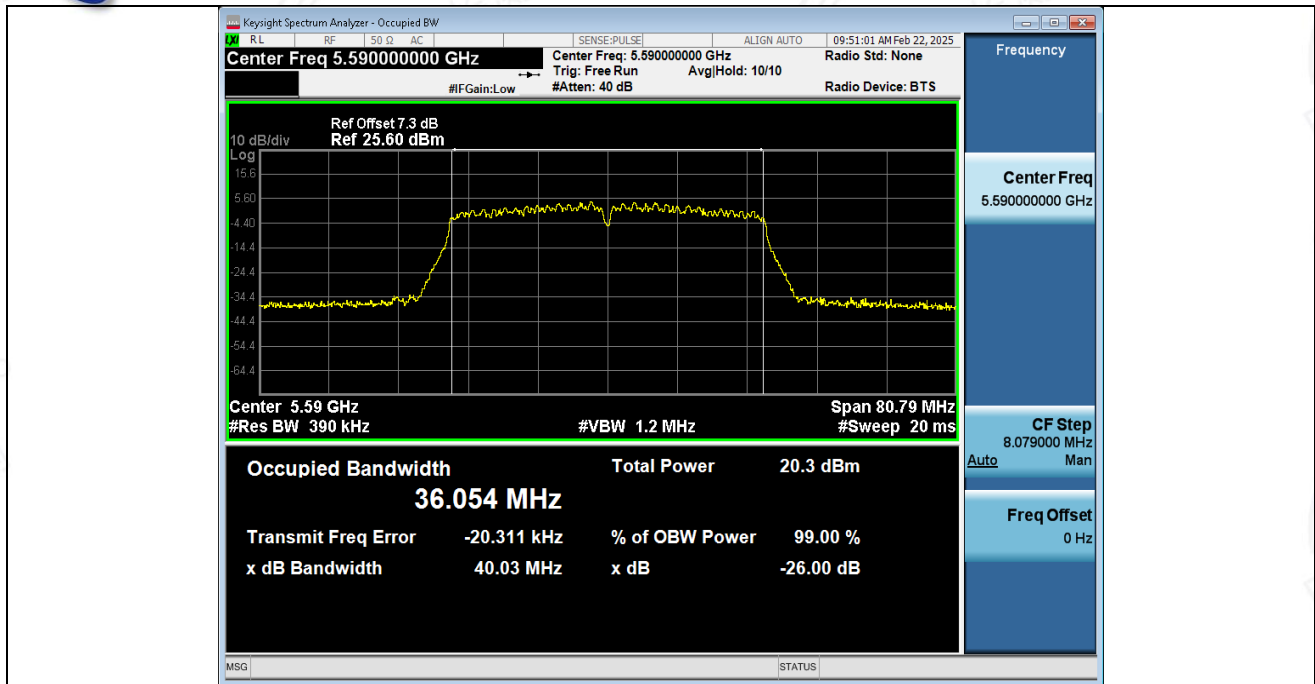


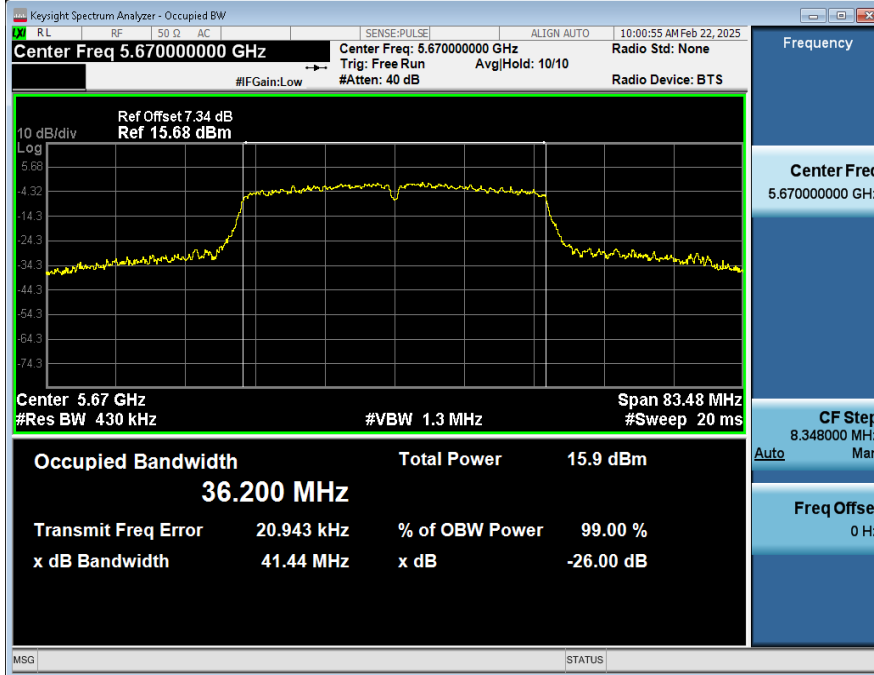
99%_OCB_NVNT_ANT2_802_11n(HT40)_5590



-26BW_NVNT_ANT2_802_11n(HT40)_5590





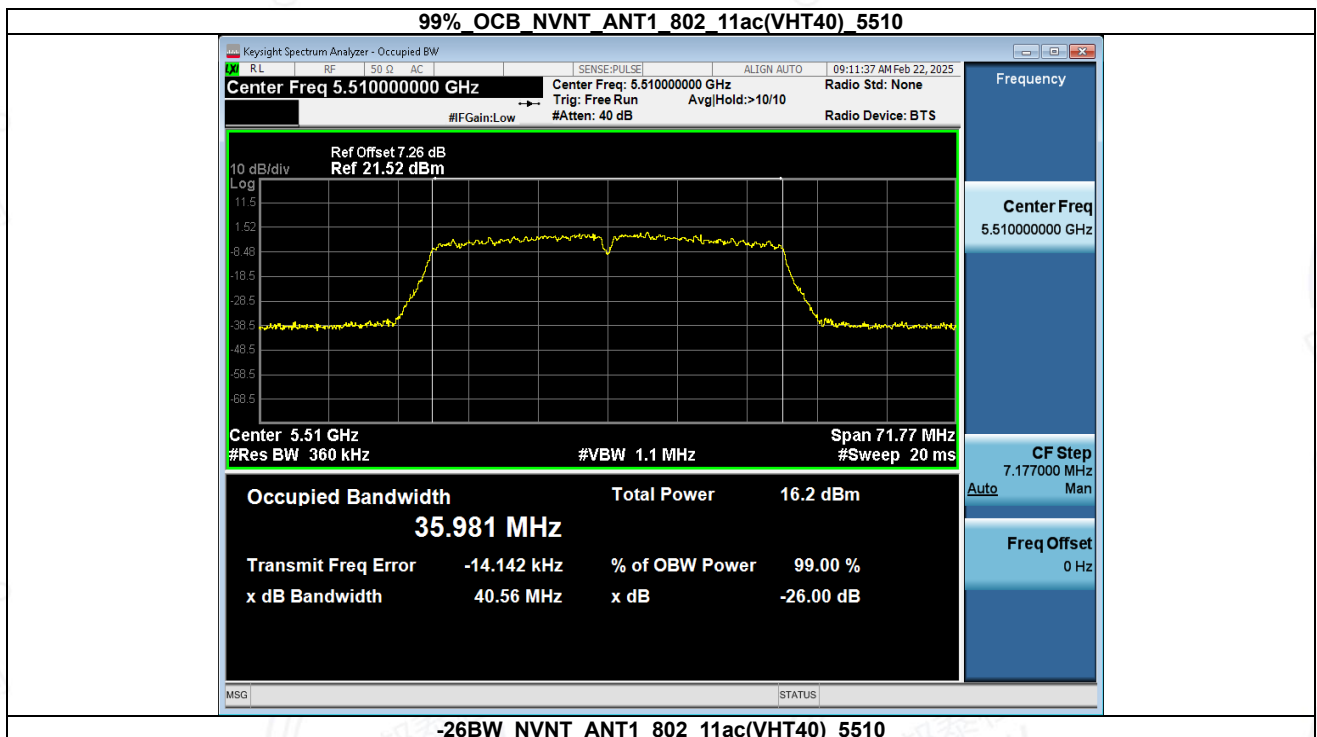
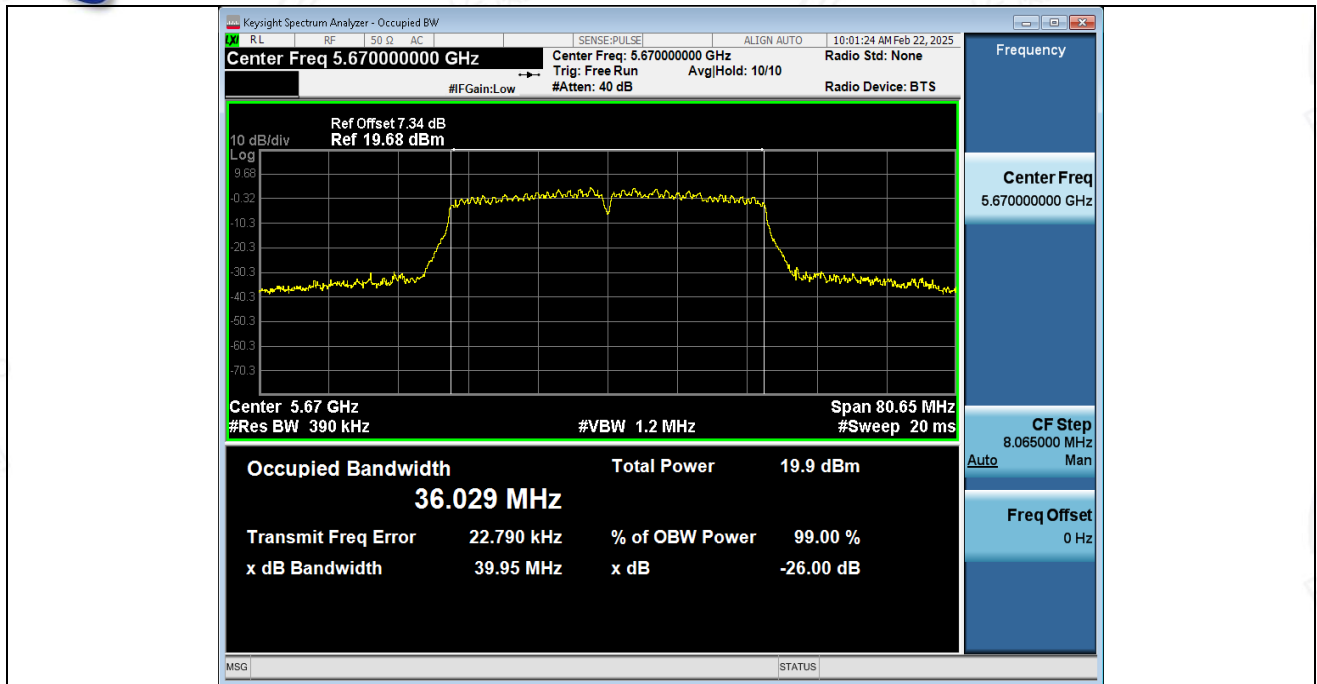


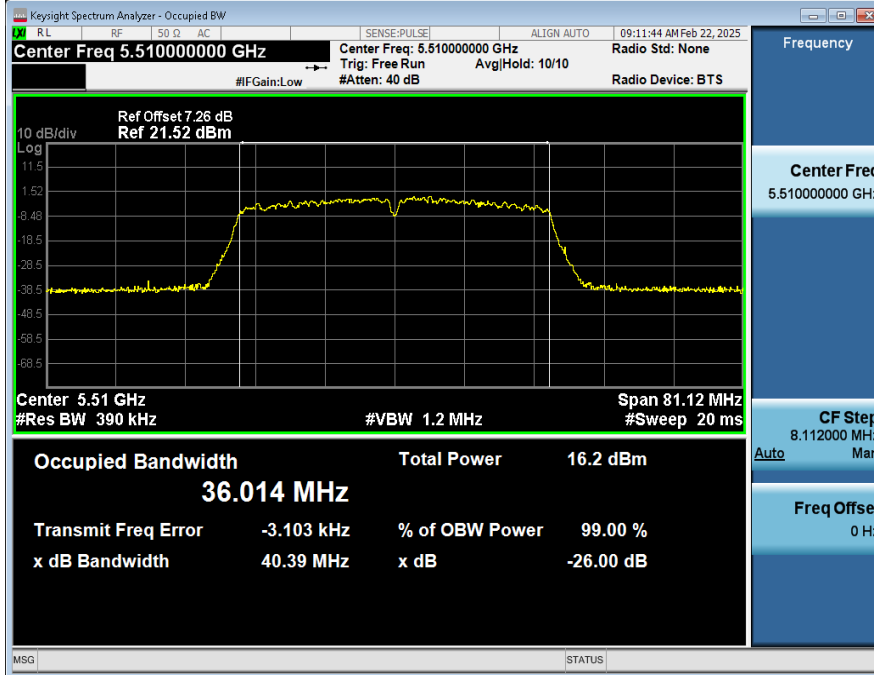
99%_OCB_NVNT_ANT2_802_11n(HT40)_5670



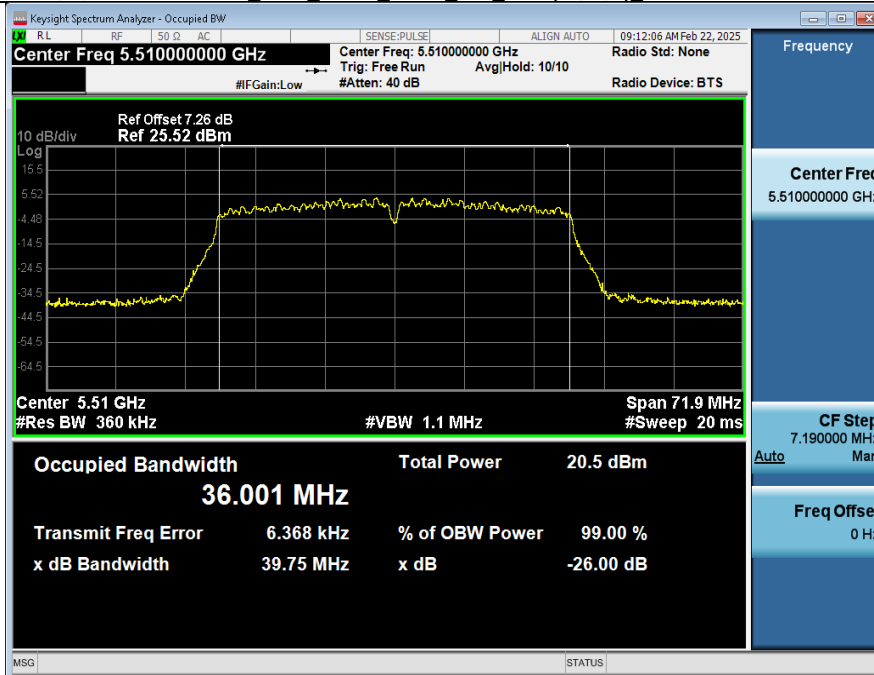
-26BW_NVNT_ANT2_802_11n(HT40)_5670





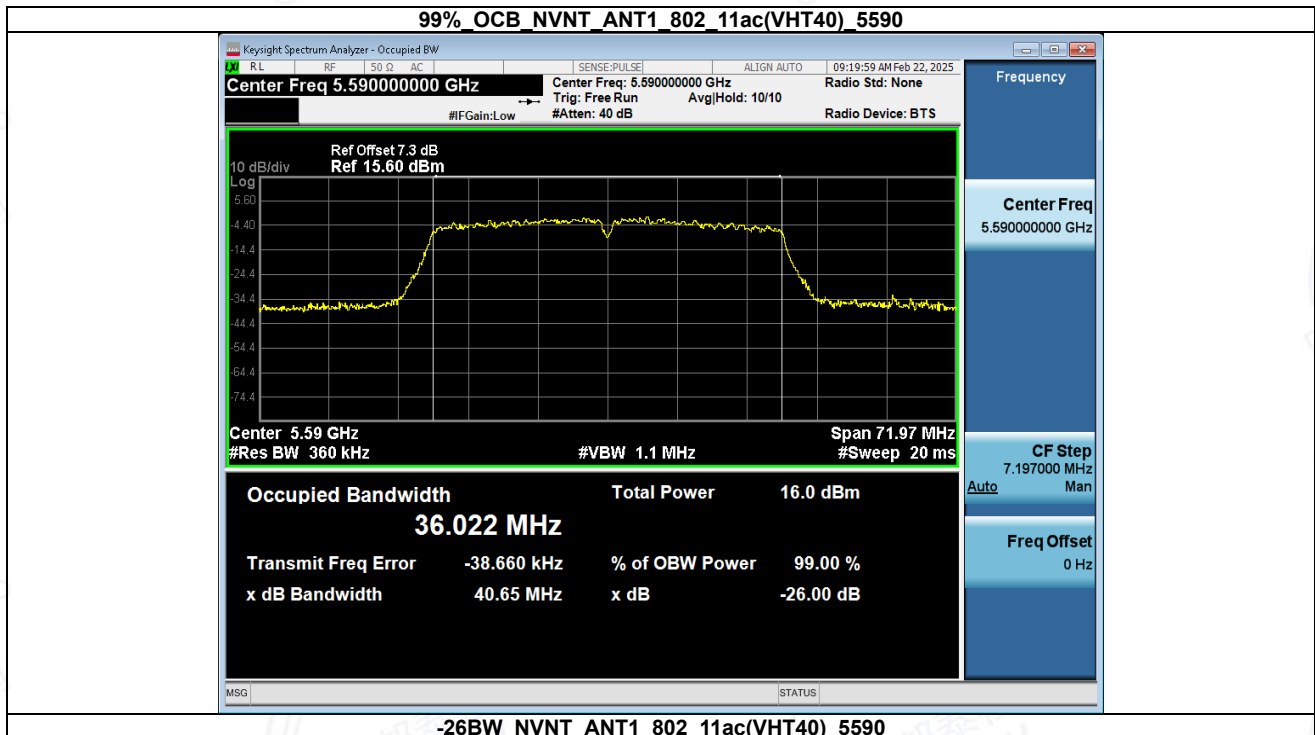
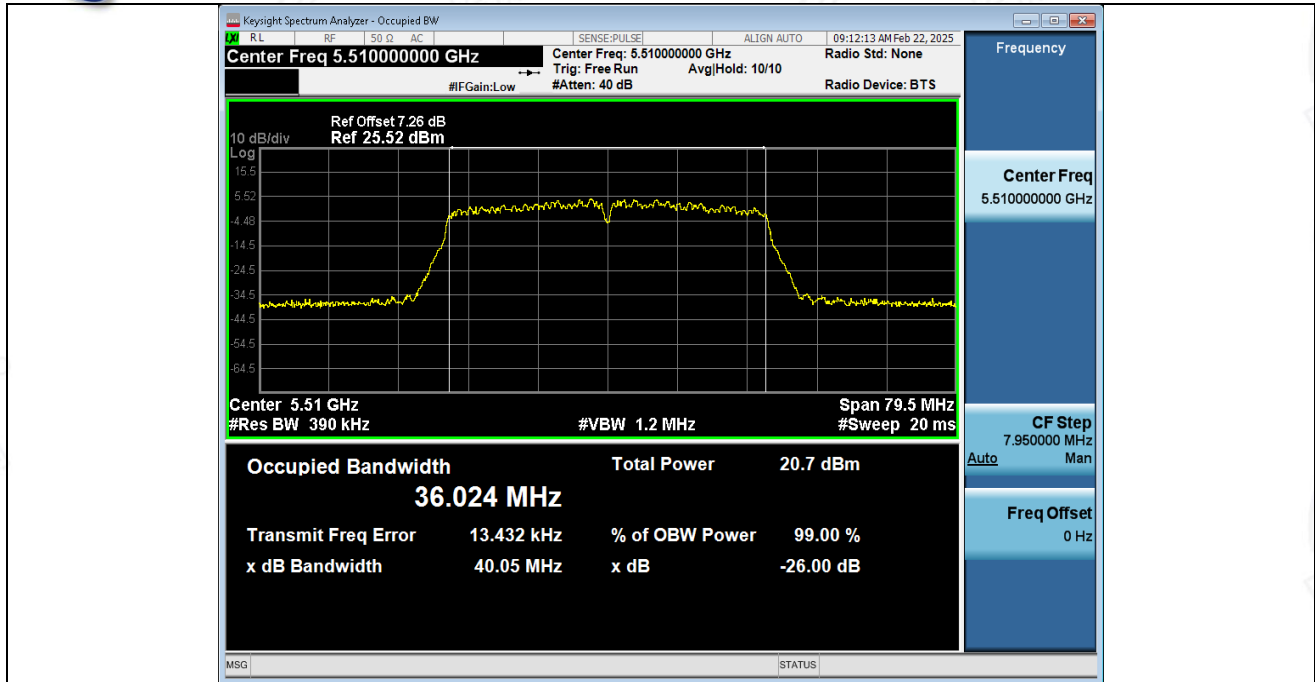


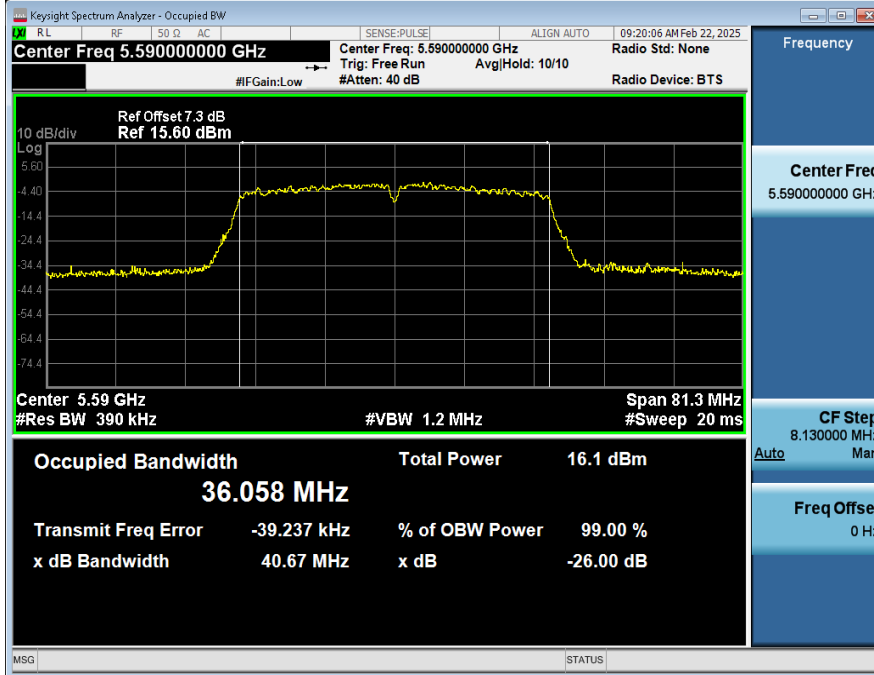
99%_OCB_NVNT_ANT2_802_11ac(VHT40)_5510



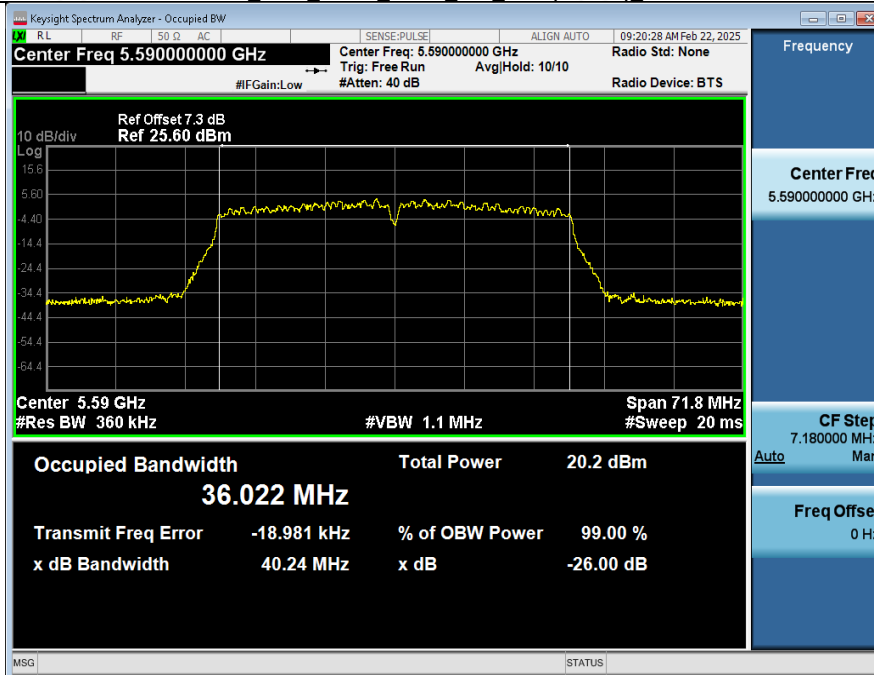
-26BW_NVNT_ANT2_802_11ac(VHT40)_5510





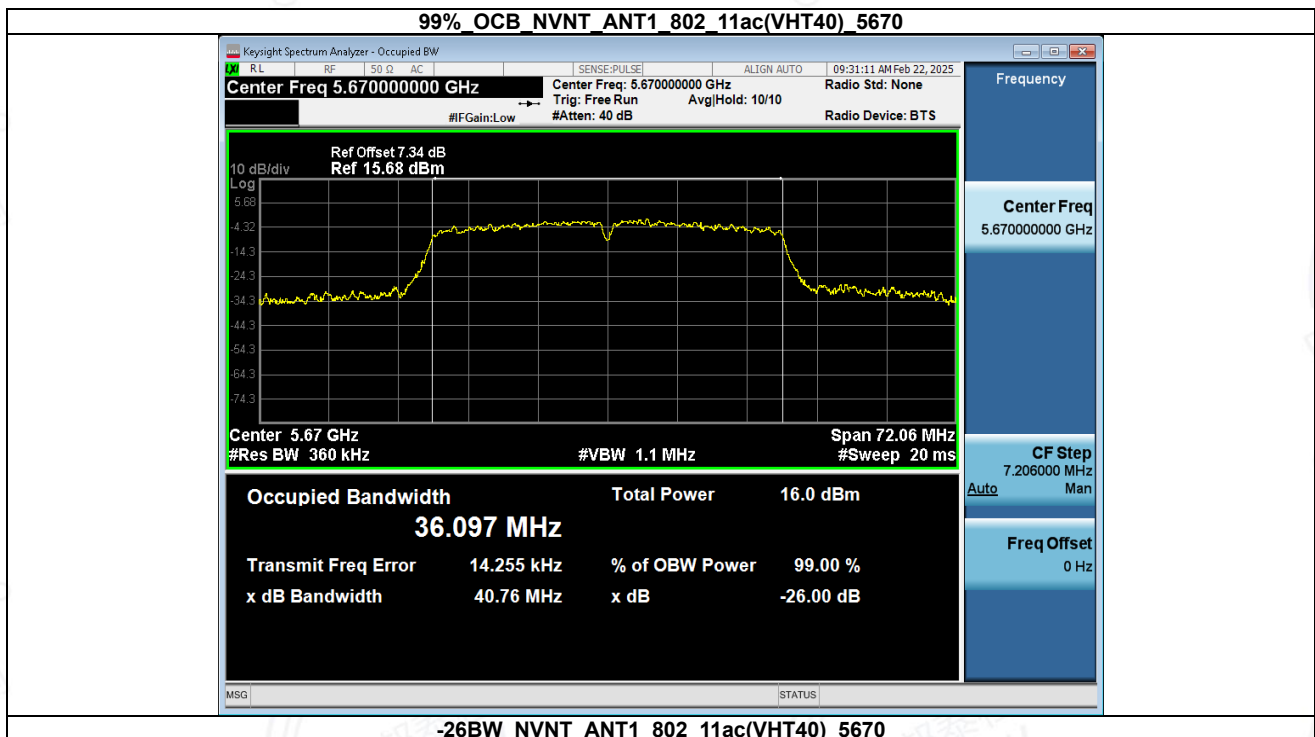
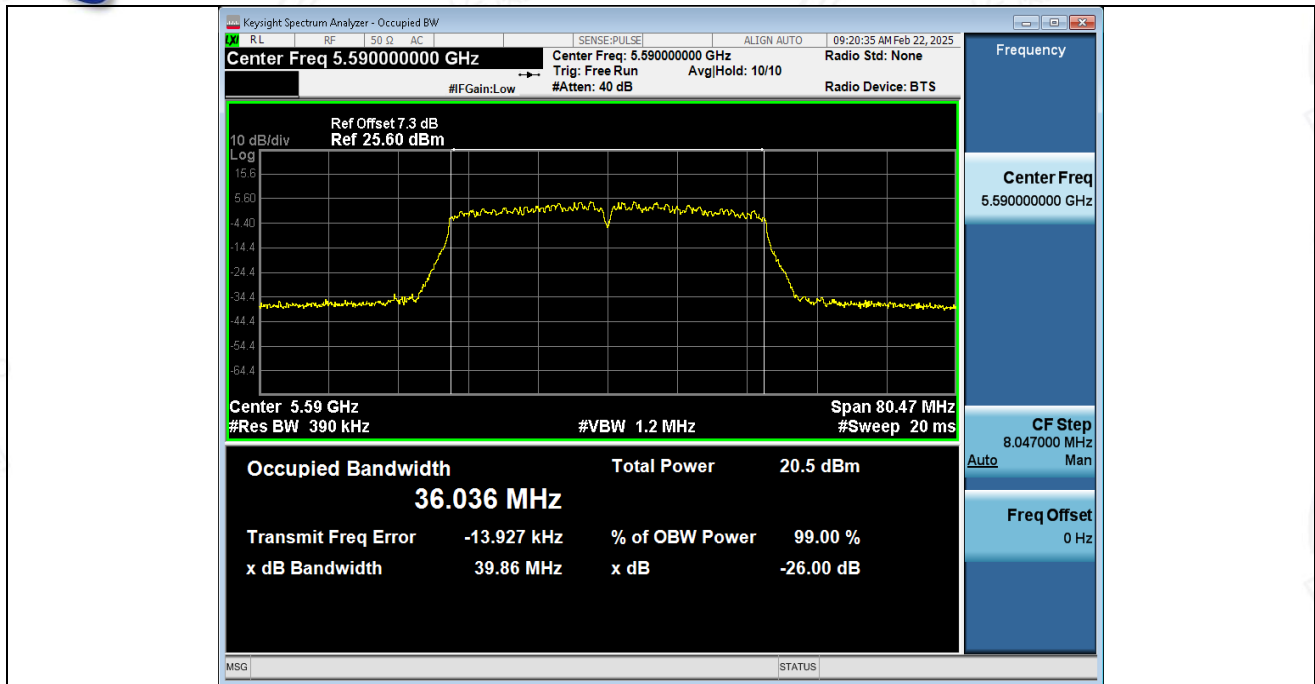


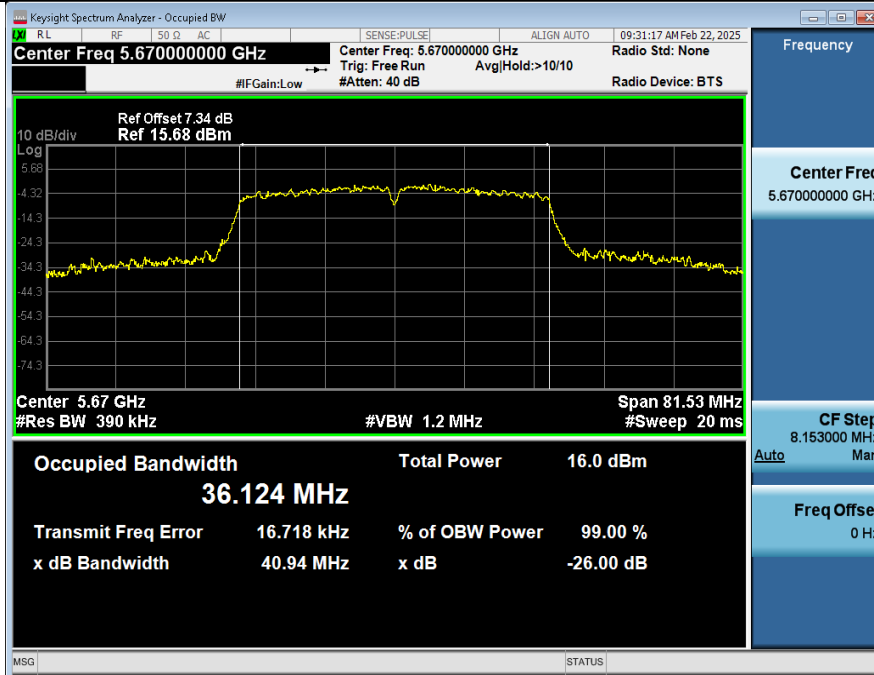
99%_OCB_NVNT_ANT2_802_11ac(VHT40)_5590



-26BW_NVNT_ANT2_802_11ac(VHT40)_5590





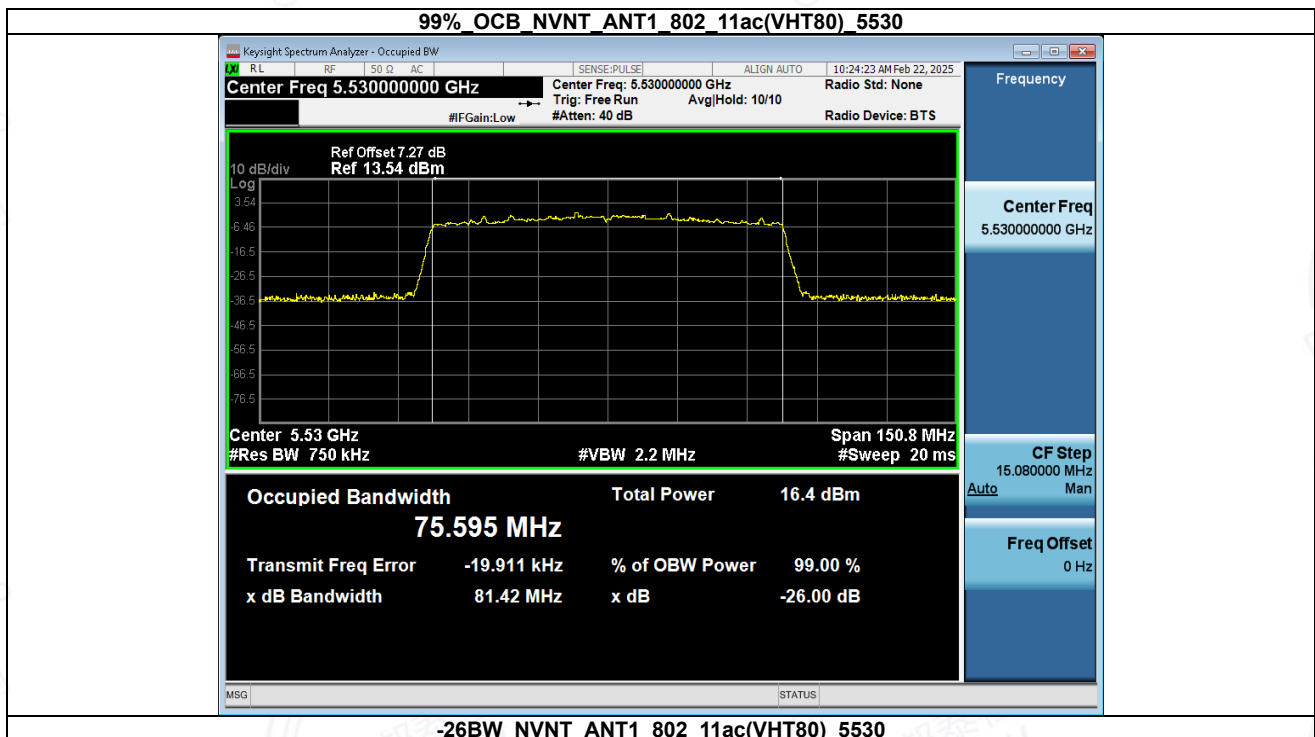
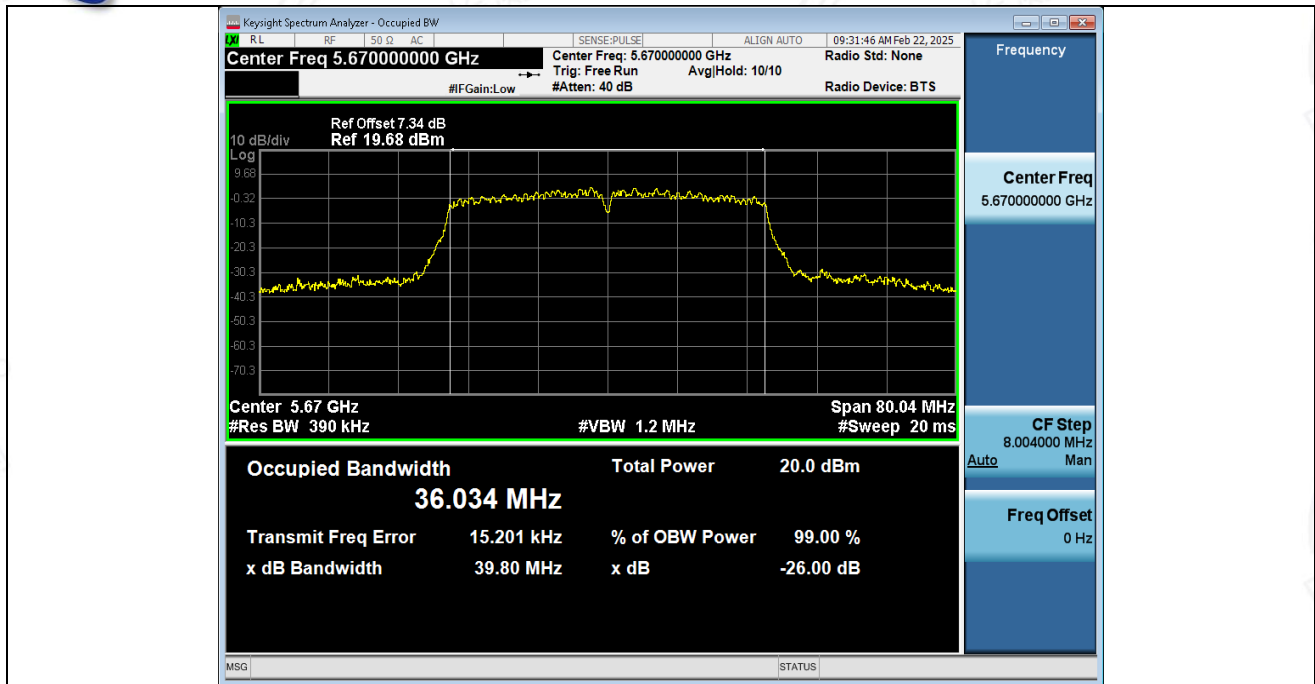


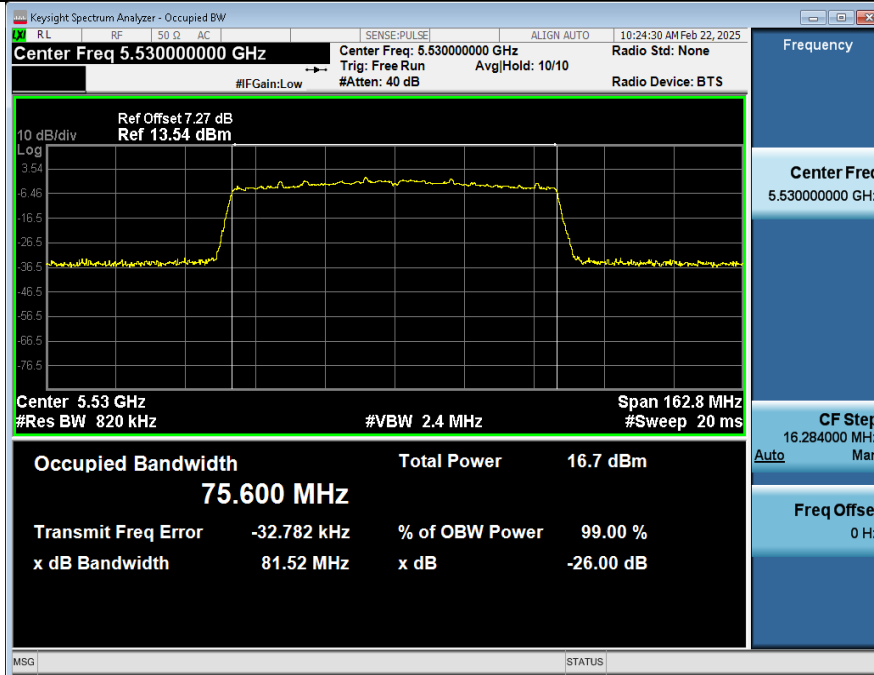
99%_OCB_NVNT_ANT2_802_11ac(VHT40)_5670



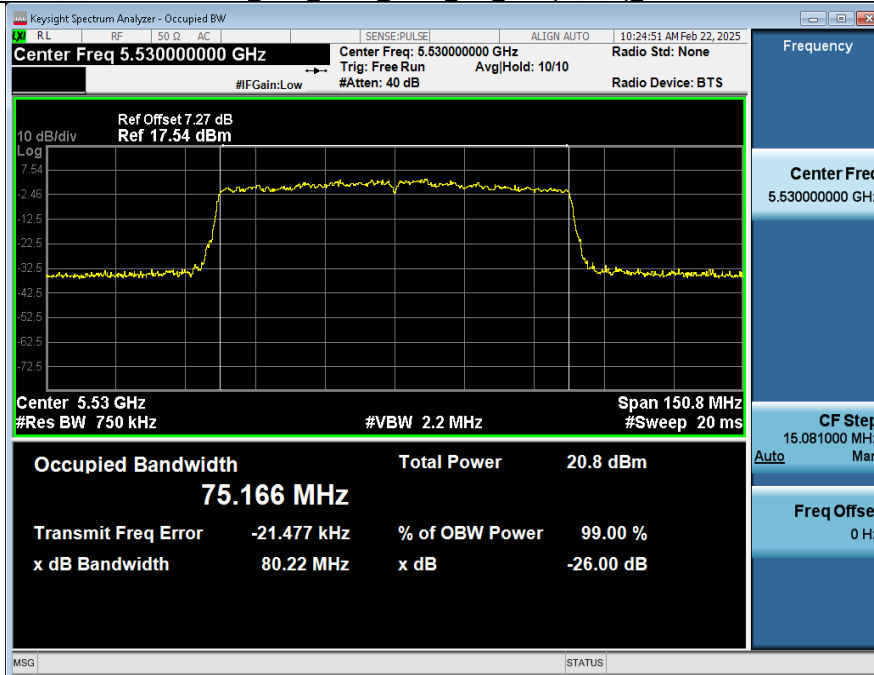
-26BW_NVNT_ANT2_802_11ac(VHT40)_5670





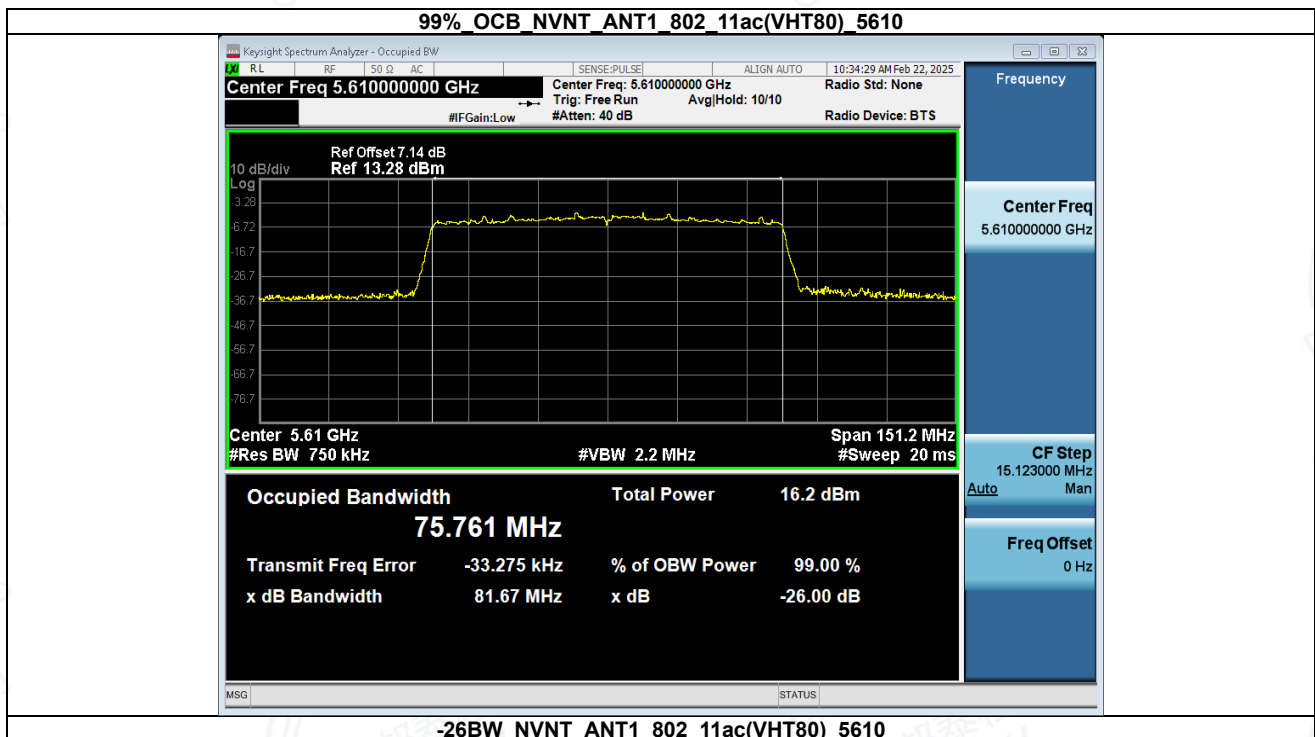
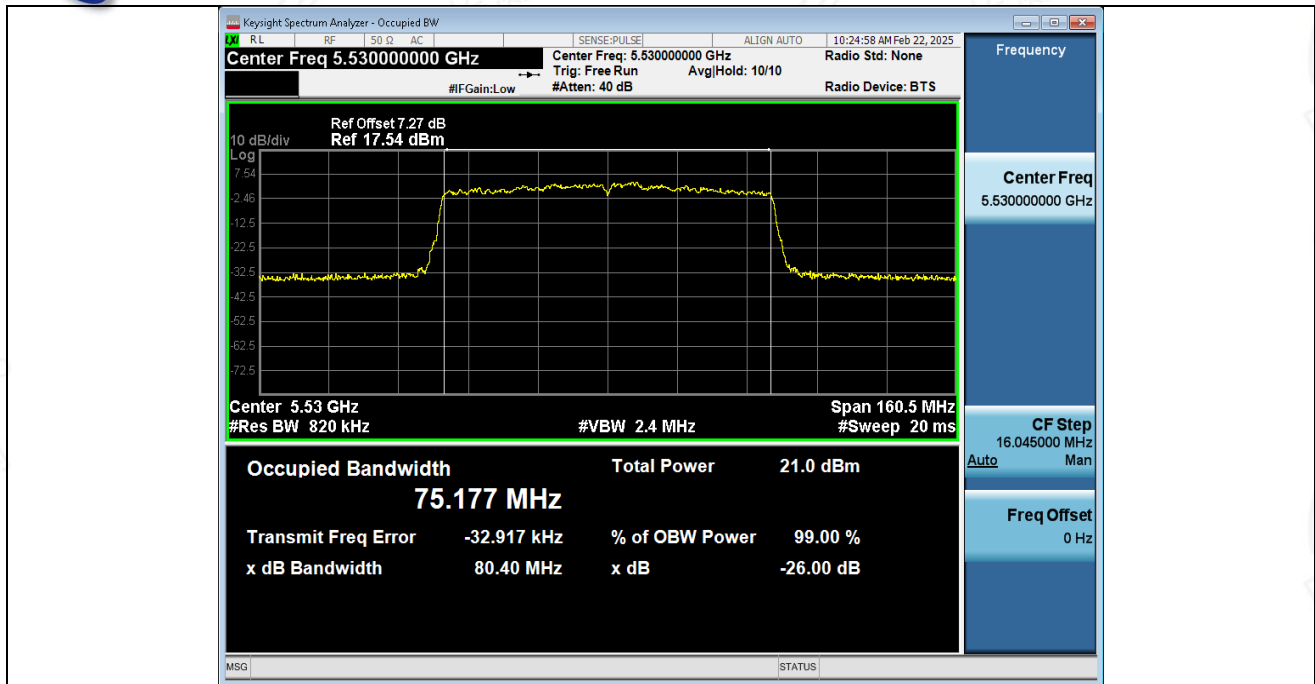


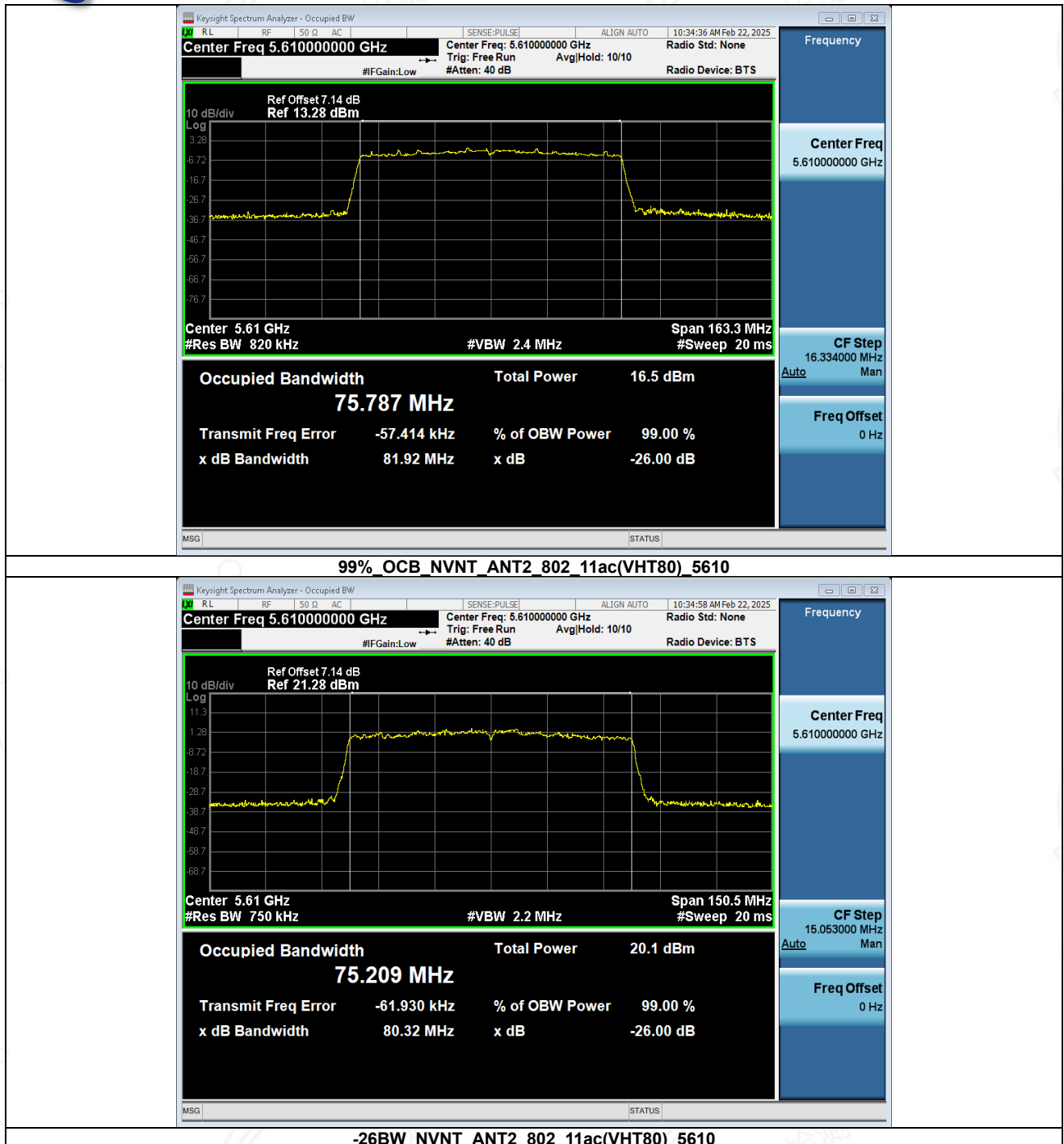
99%_OCB_NVNT_ANT2_802_11ac(VHT80)_5530

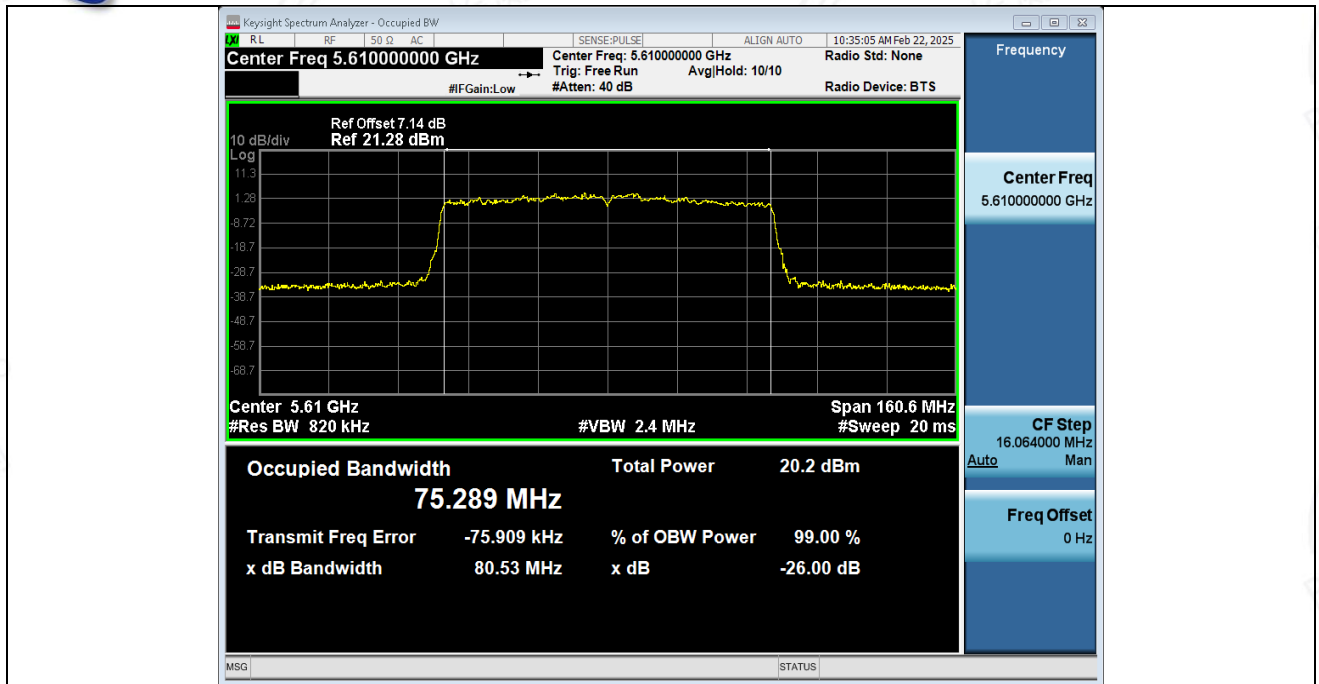


-26BW_NVNT_ANT2_802_11ac(VHT80)_5530





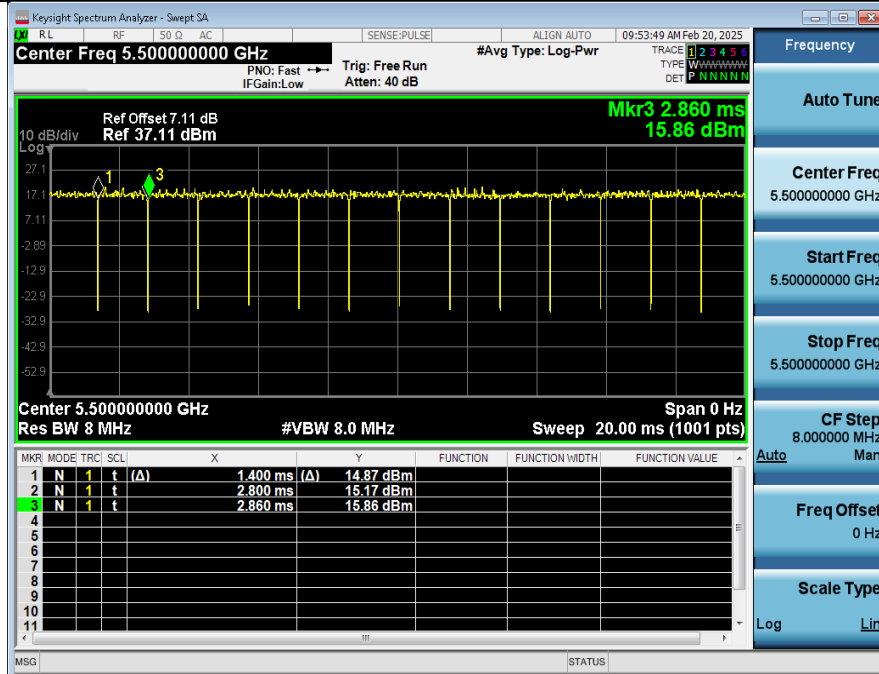




2. Duty Cycle

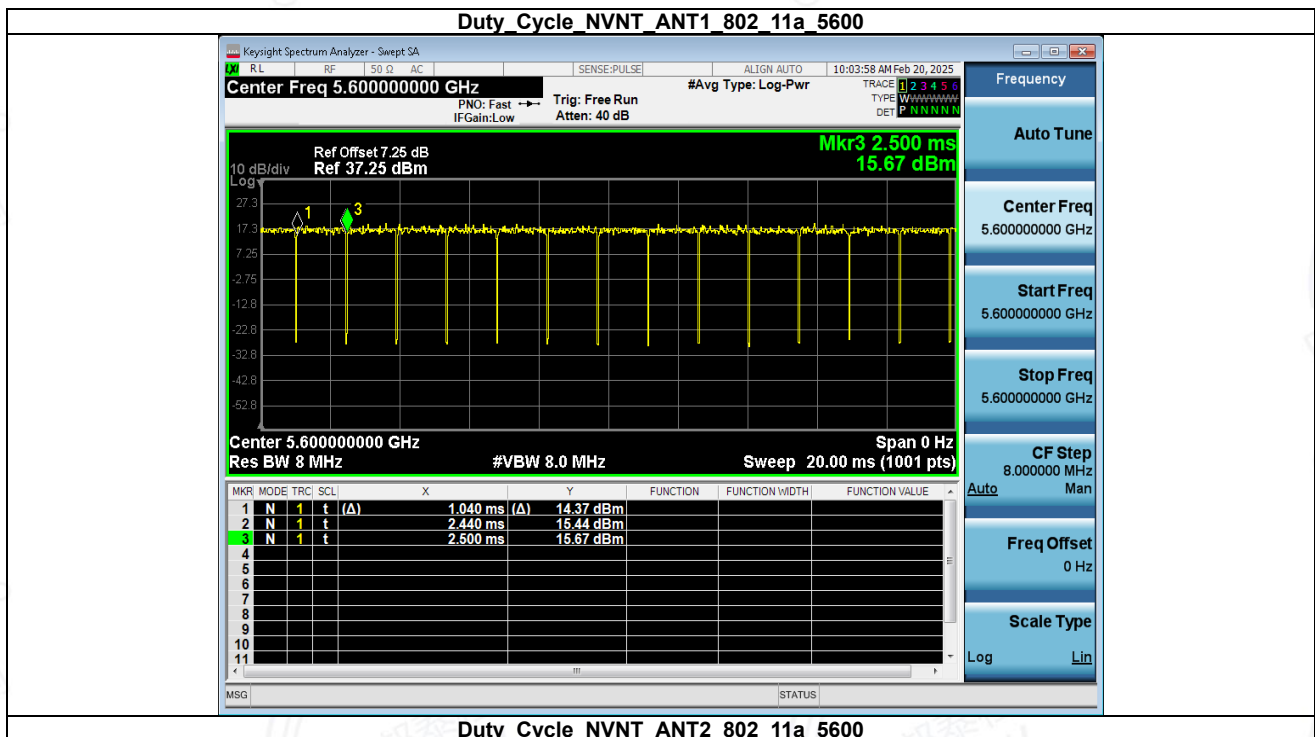
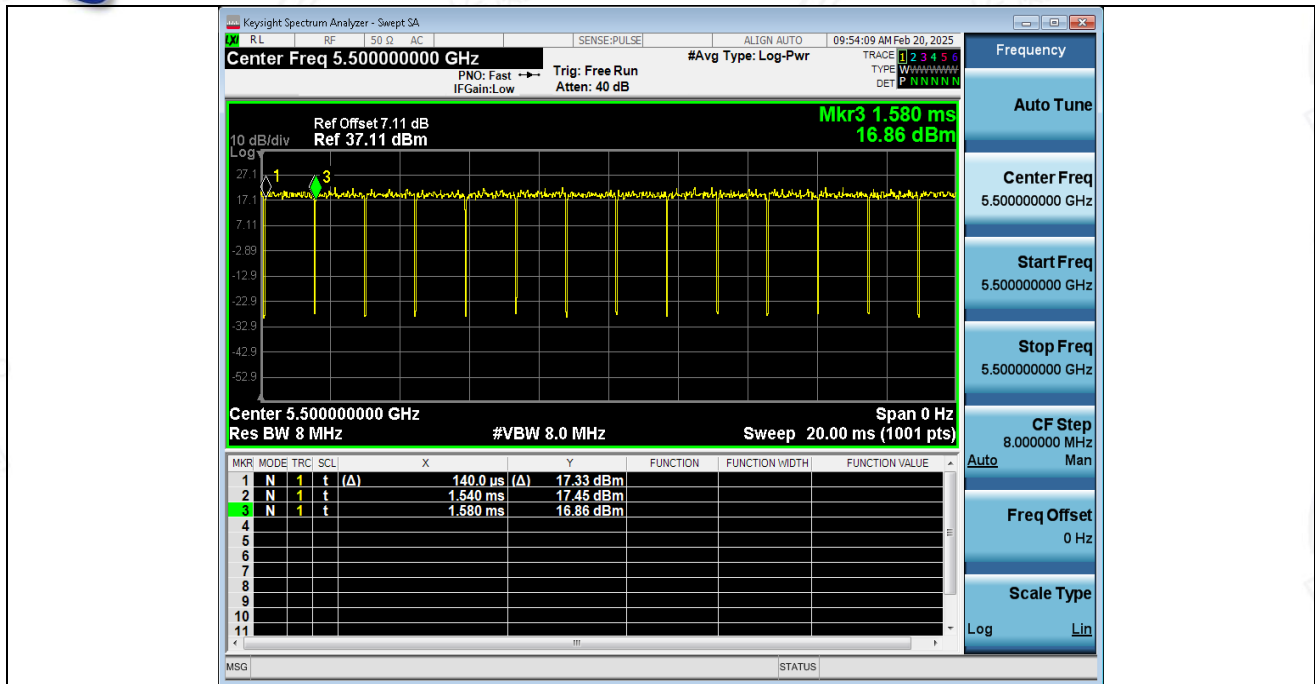
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5500.00	95.89	0.18
NVNT	ANT2	802.11a	5500.00	97.22	0.12
NVNT	ANT1	802.11a	5600.00	95.89	0.18
NVNT	ANT2	802.11a	5600.00	97.22	0.12
NVNT	ANT1	802.11a	5700.00	95.83	0.18
NVNT	ANT2	802.11a	5700.00	95.83	0.18
NVNT	ANT1	802.11n(HT20)	5500.00	97.01	0.13
NVNT	ANT2	802.11n(HT20)	5500.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5600.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5600.00	95.59	0.20
NVNT	ANT1	802.11n(HT20)	5700.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5700.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT20)	5500.00	95.65	0.19
NVNT	ANT2	802.11ac(VHT20)	5500.00	95.65	0.19
NVNT	ANT1	802.11ac(VHT20)	5600.00	97.06	0.13
NVNT	ANT2	802.11ac(VHT20)	5600.00	95.65	0.19
NVNT	ANT1	802.11ac(VHT20)	5700.00	95.59	0.20
NVNT	ANT2	802.11ac(VHT20)	5700.00	95.65	0.19
NVNT	ANT1	802.11n(HT40)	5510.00	91.43	0.39
NVNT	ANT2	802.11n(HT40)	5510.00	91.43	0.39
NVNT	ANT1	802.11n(HT40)	5590.00	91.43	0.39
NVNT	ANT2	802.11n(HT40)	5590.00	91.43	0.39
NVNT	ANT1	802.11n(HT40)	5670.00	94.29	0.26
NVNT	ANT2	802.11n(HT40)	5670.00	91.43	0.39
NVNT	ANT1	802.11ac(VHT40)	5510.00	91.67	0.38
NVNT	ANT2	802.11ac(VHT40)	5510.00	91.43	0.39
NVNT	ANT1	802.11ac(VHT40)	5590.00	91.43	0.39
NVNT	ANT2	802.11ac(VHT40)	5590.00	91.43	0.39
NVNT	ANT1	802.11ac(VHT40)	5670.00	91.43	0.39
NVNT	ANT2	802.11ac(VHT40)	5670.00	91.67	0.38
NVNT	ANT1	802.11ac(VHT80)	5530.00	84.21	0.75
NVNT	ANT2	802.11ac(VHT80)	5530.00	88.89	0.51
NVNT	ANT1	802.11ac(VHT80)	5610.00	84.21	0.75
NVNT	ANT2	802.11ac(VHT80)	5610.00	89.47	0.48

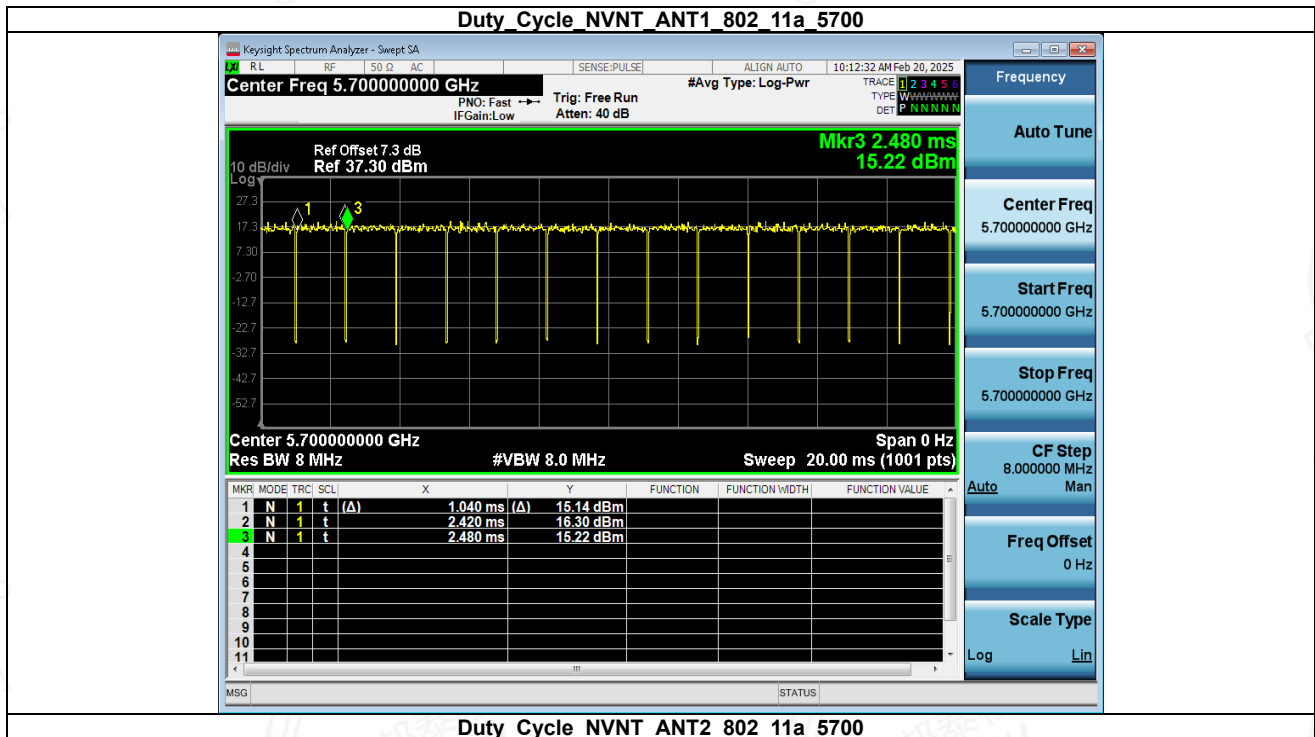
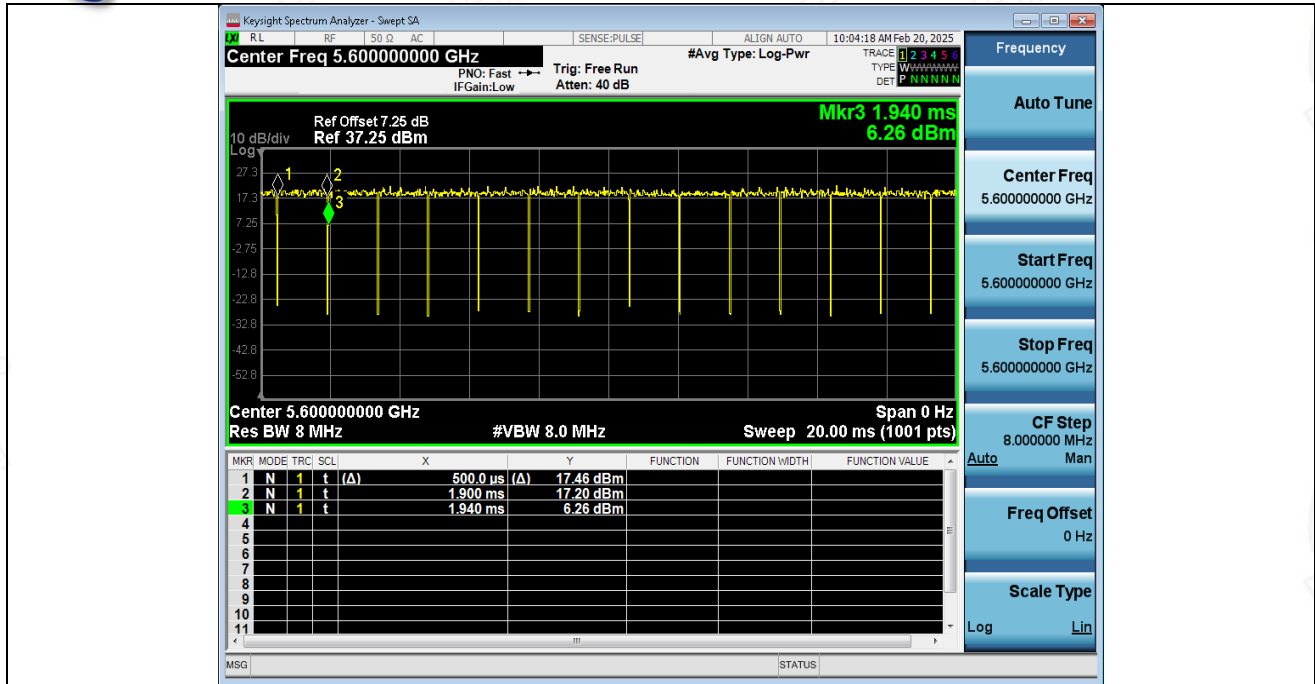
Duty Cycle NVNT ANT1 802 11a 5500

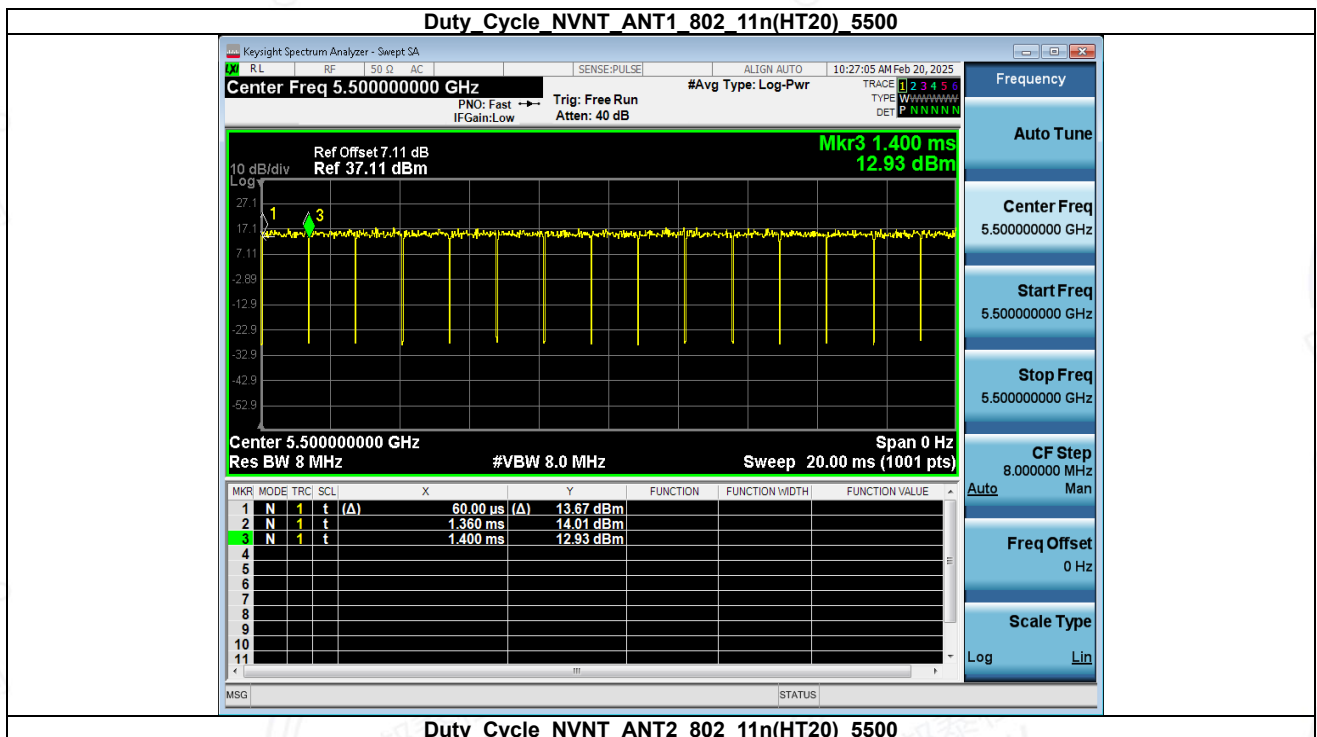
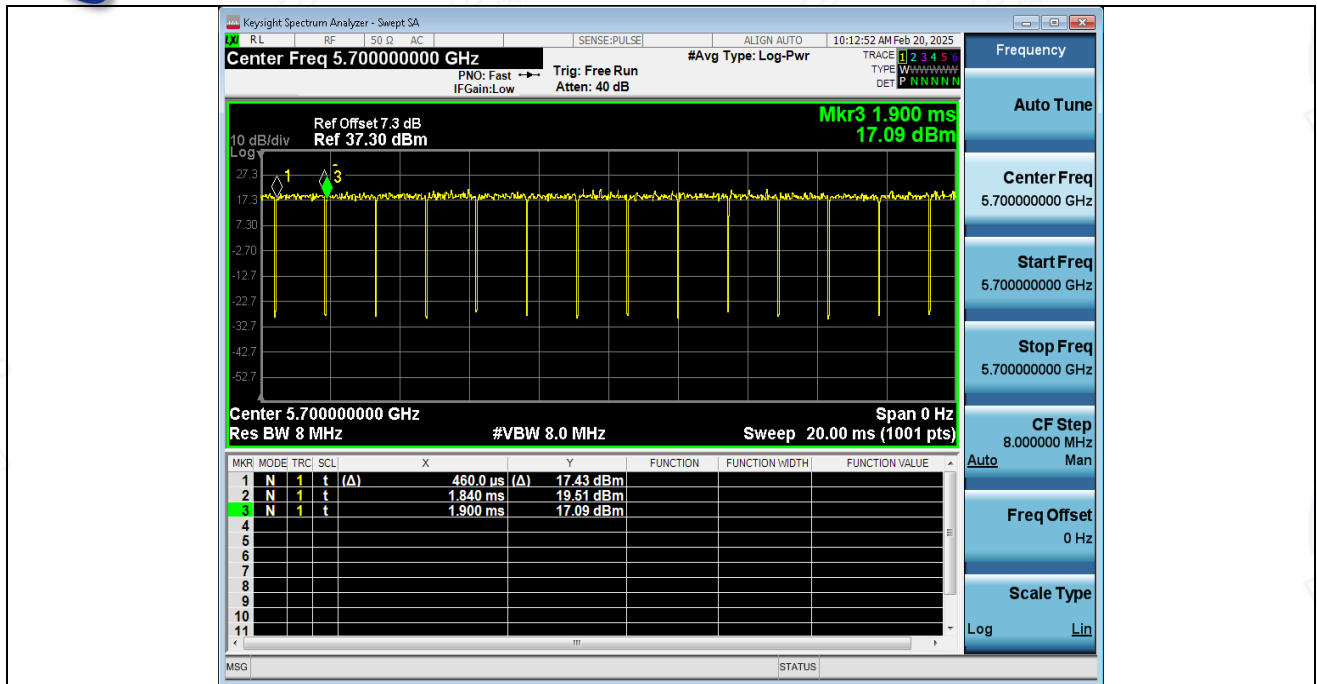


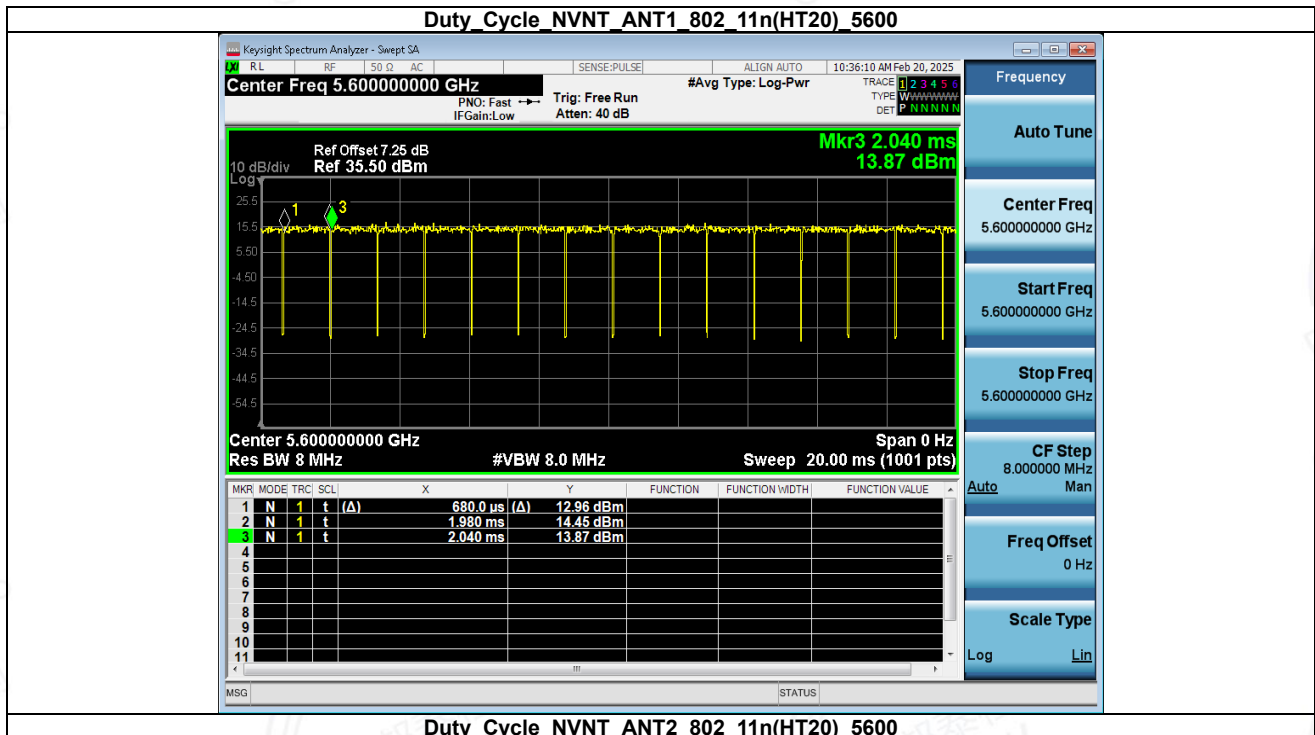
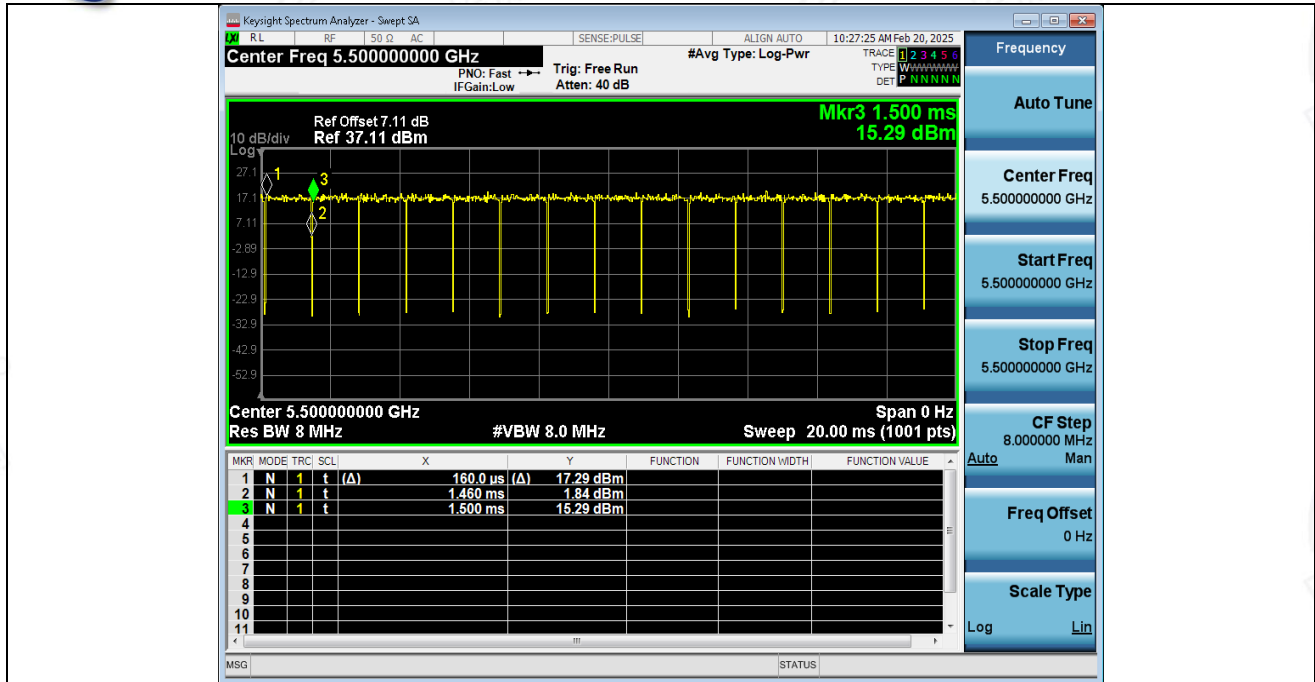
Duty Cycle NVNT ANT2 802 11a 5500

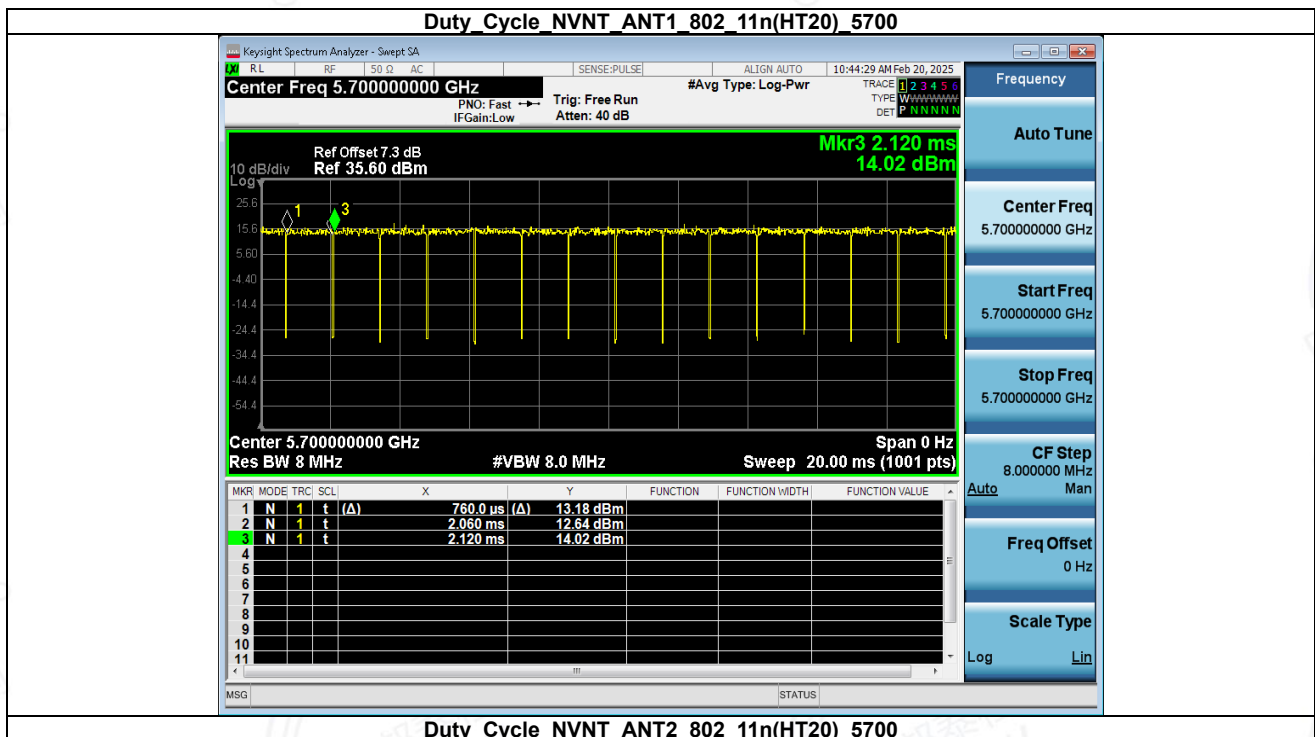
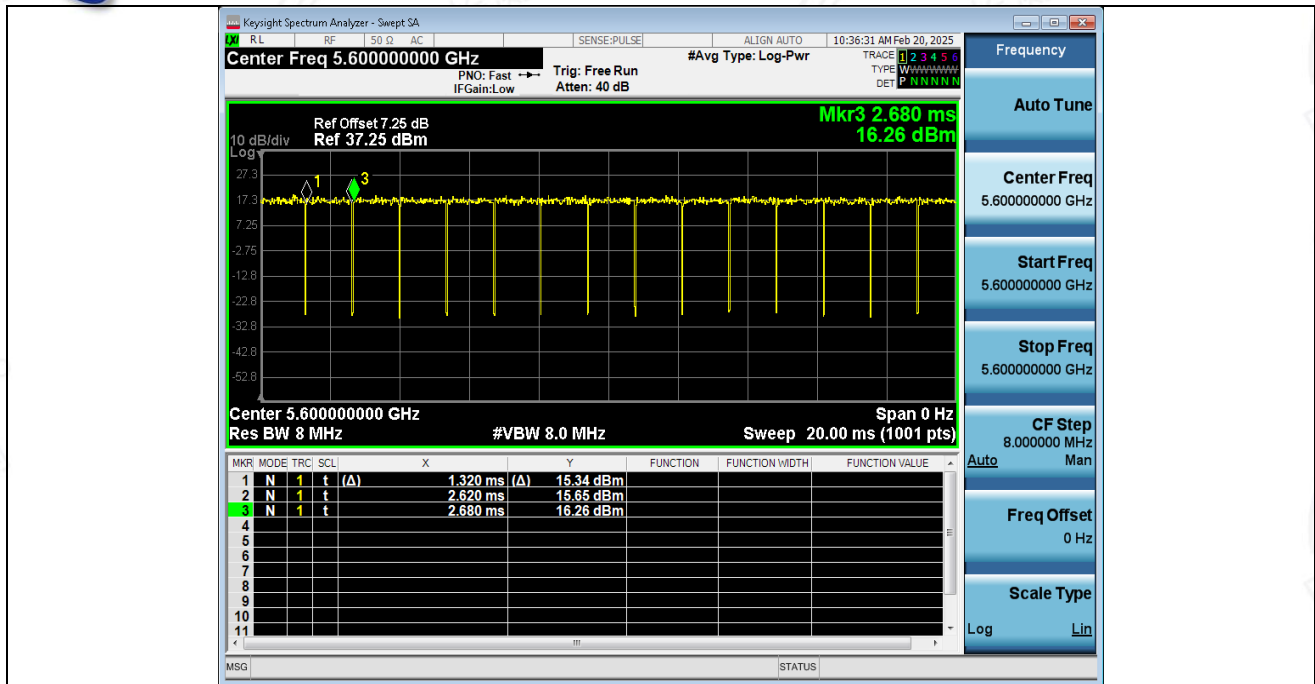


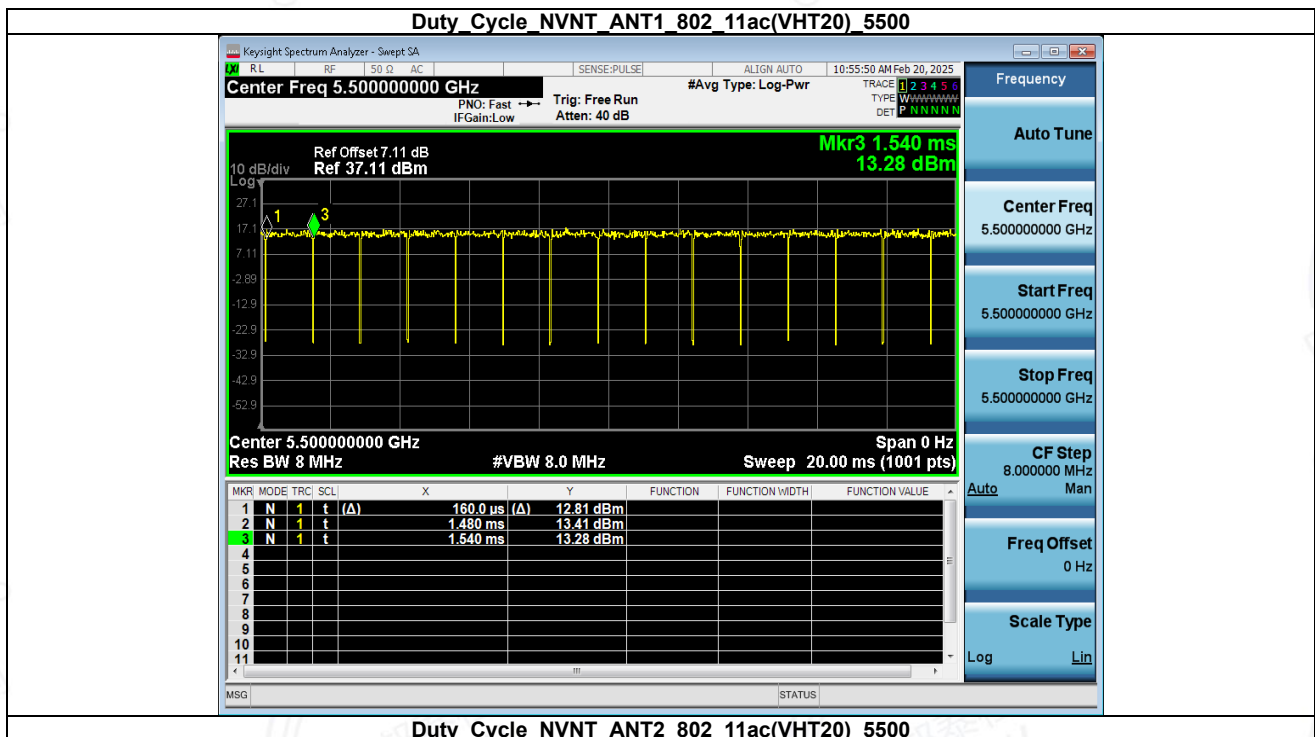
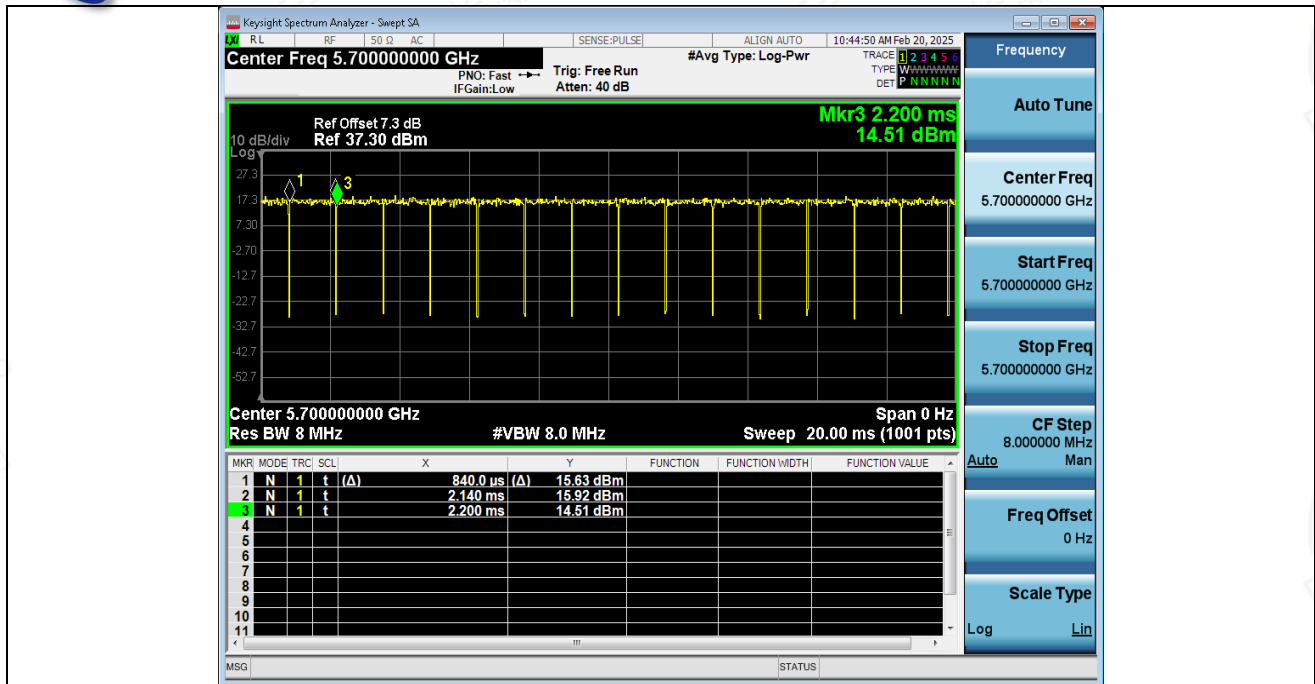


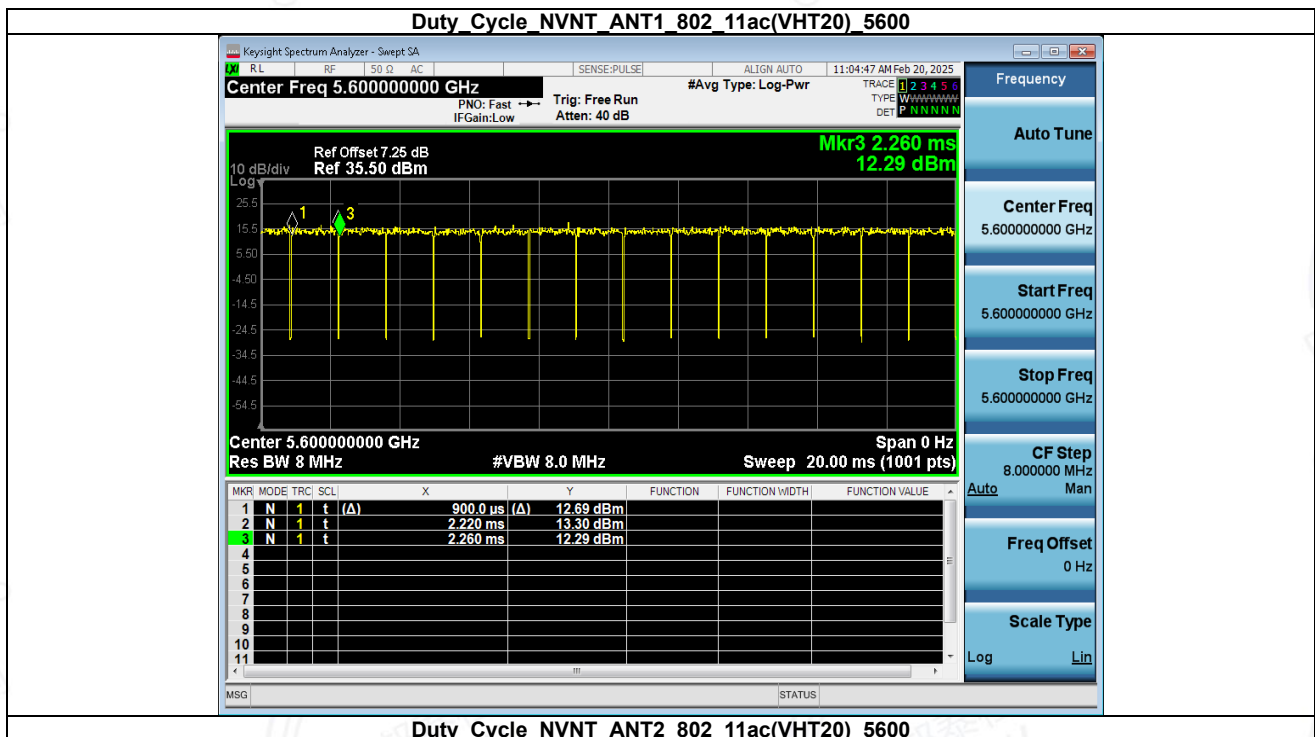
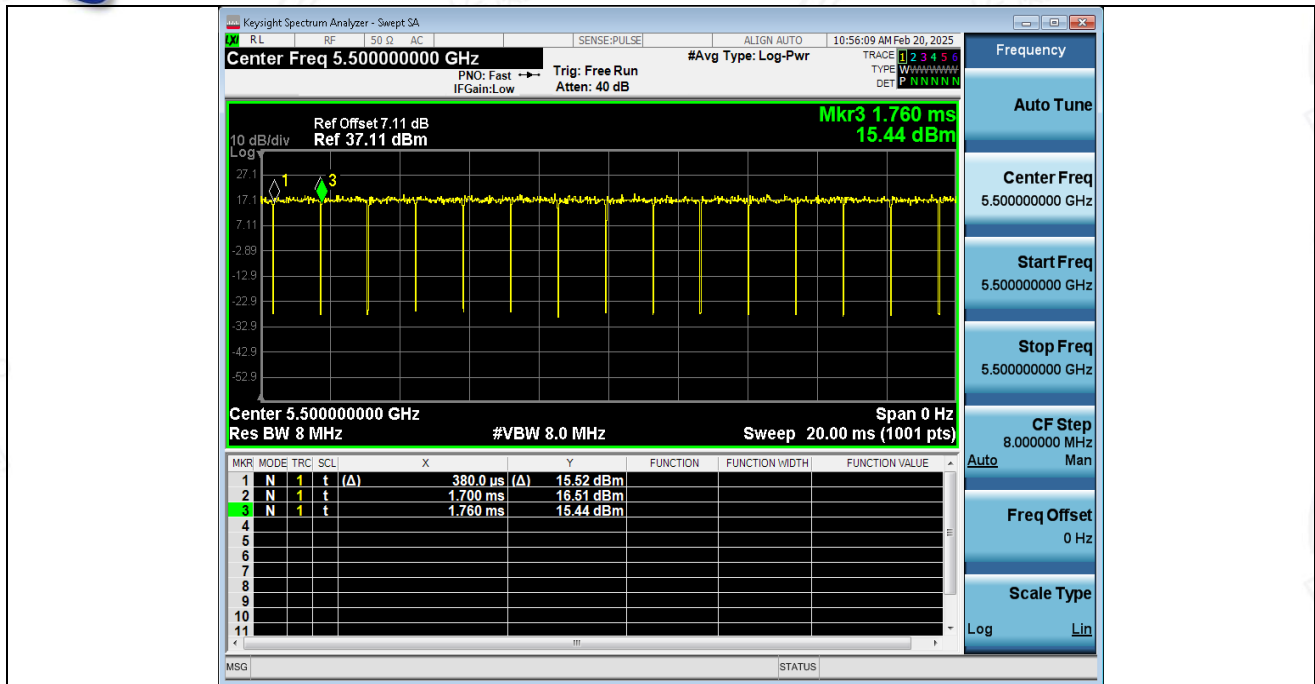


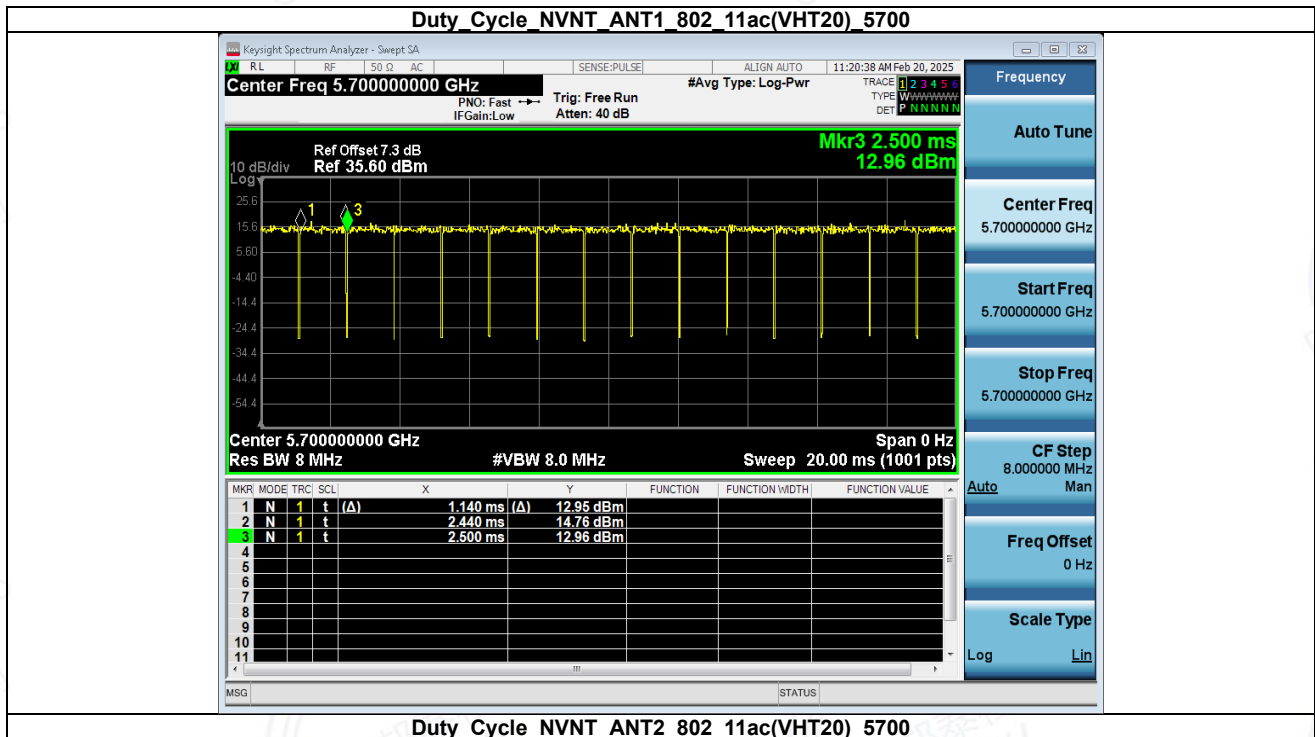
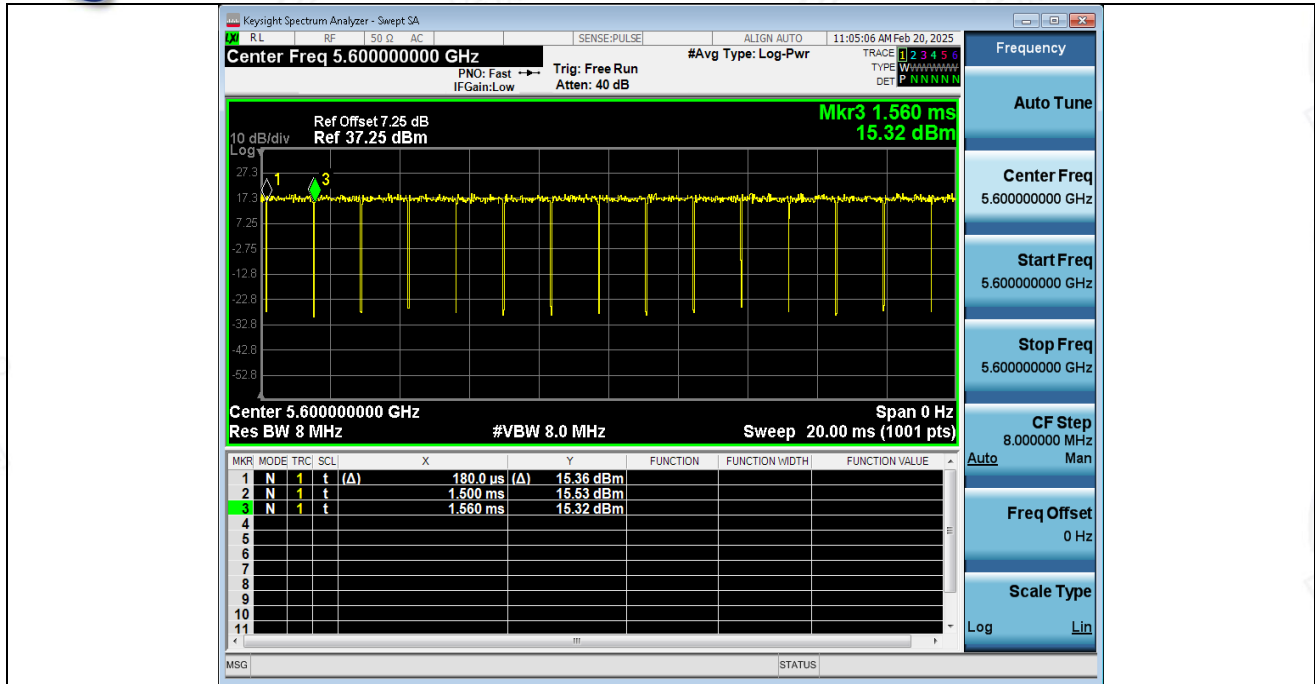


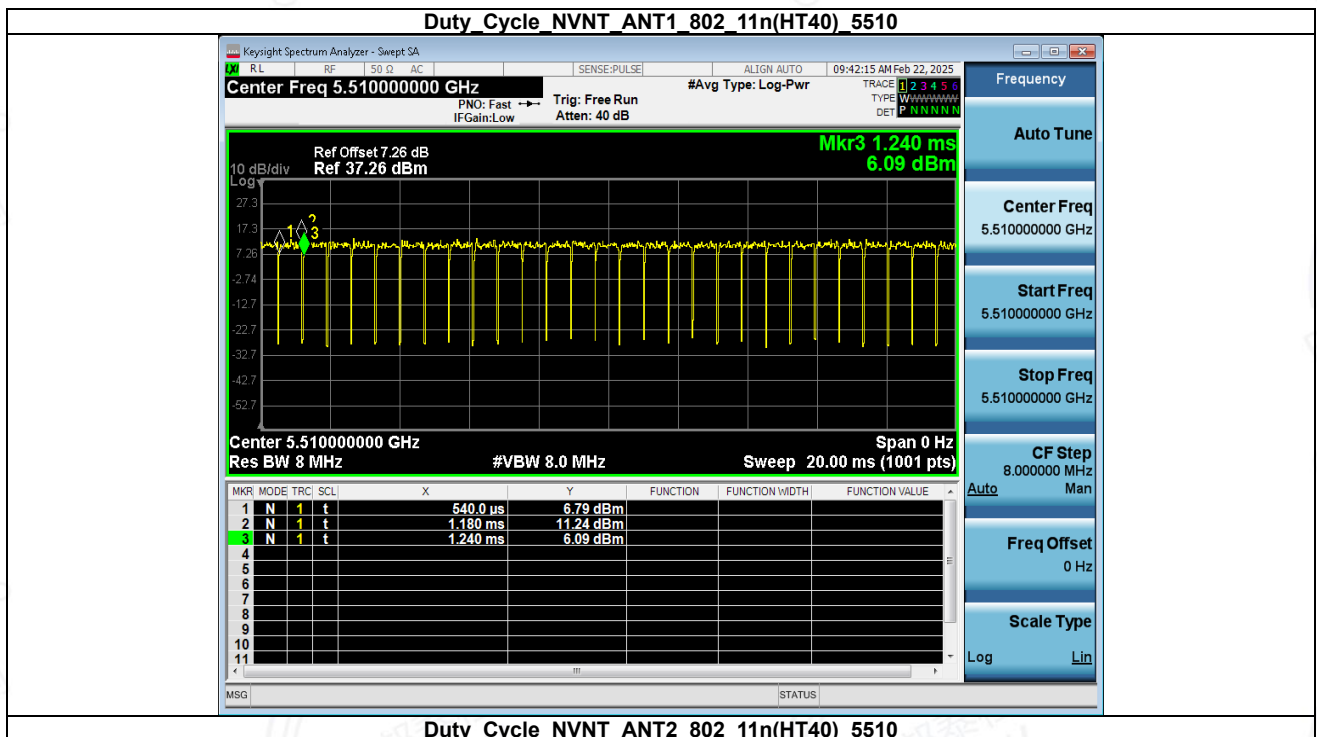
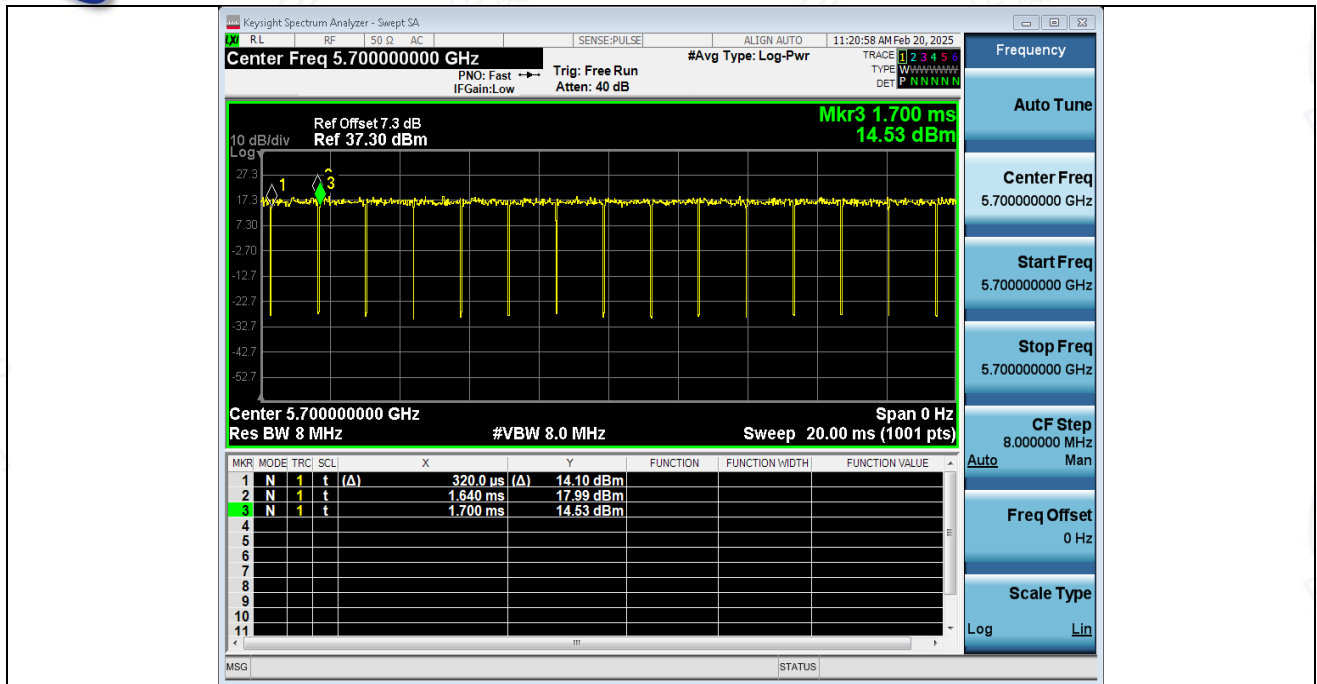


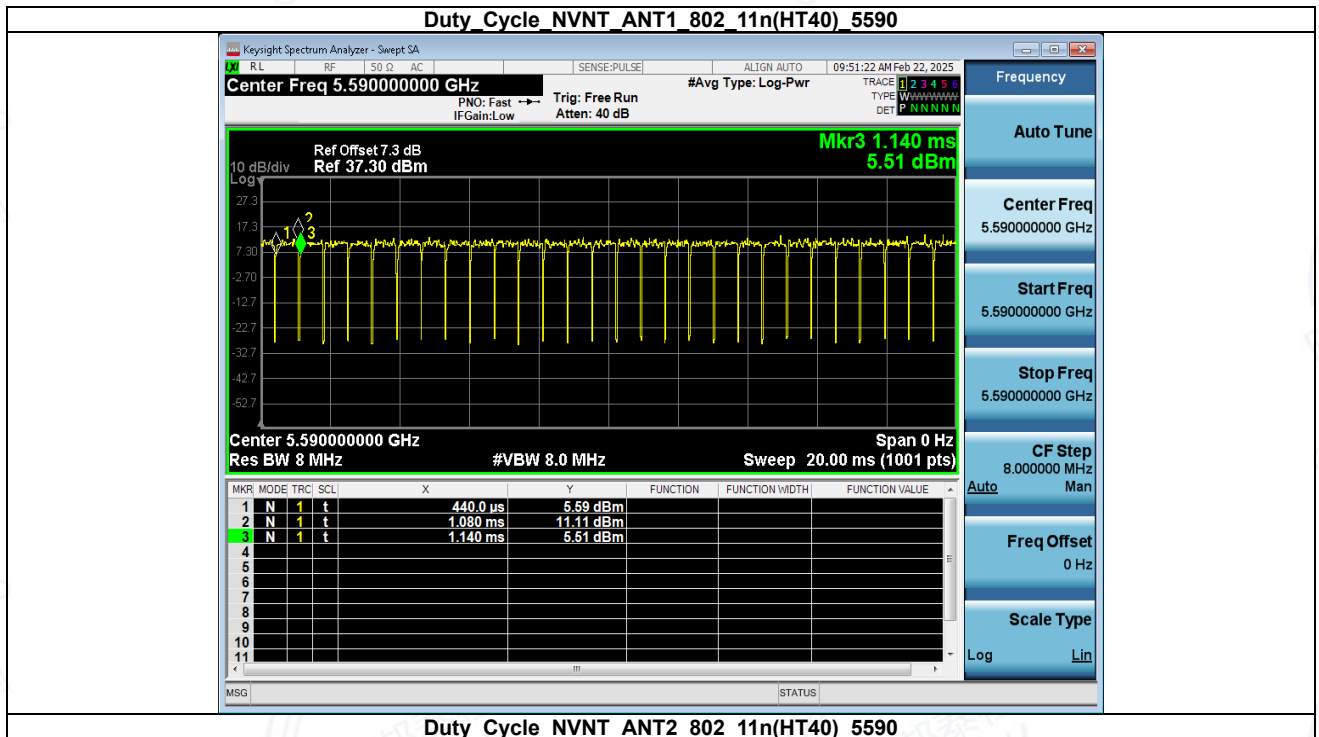
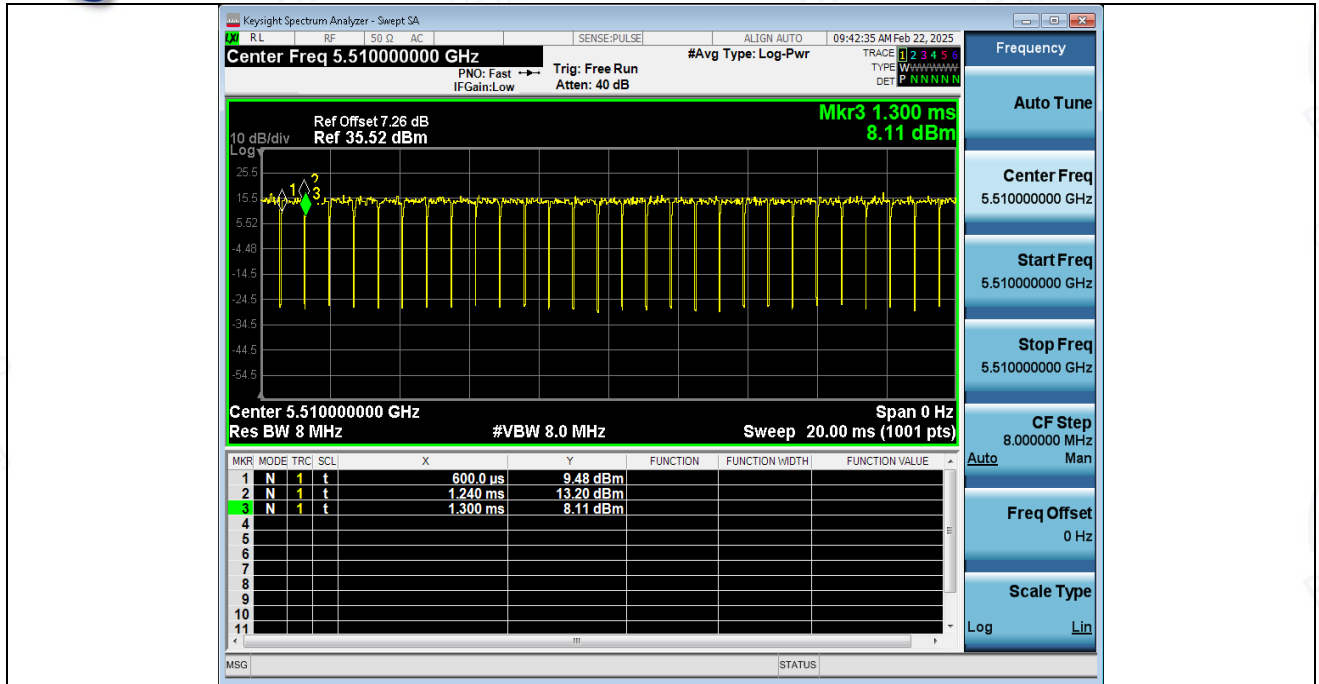


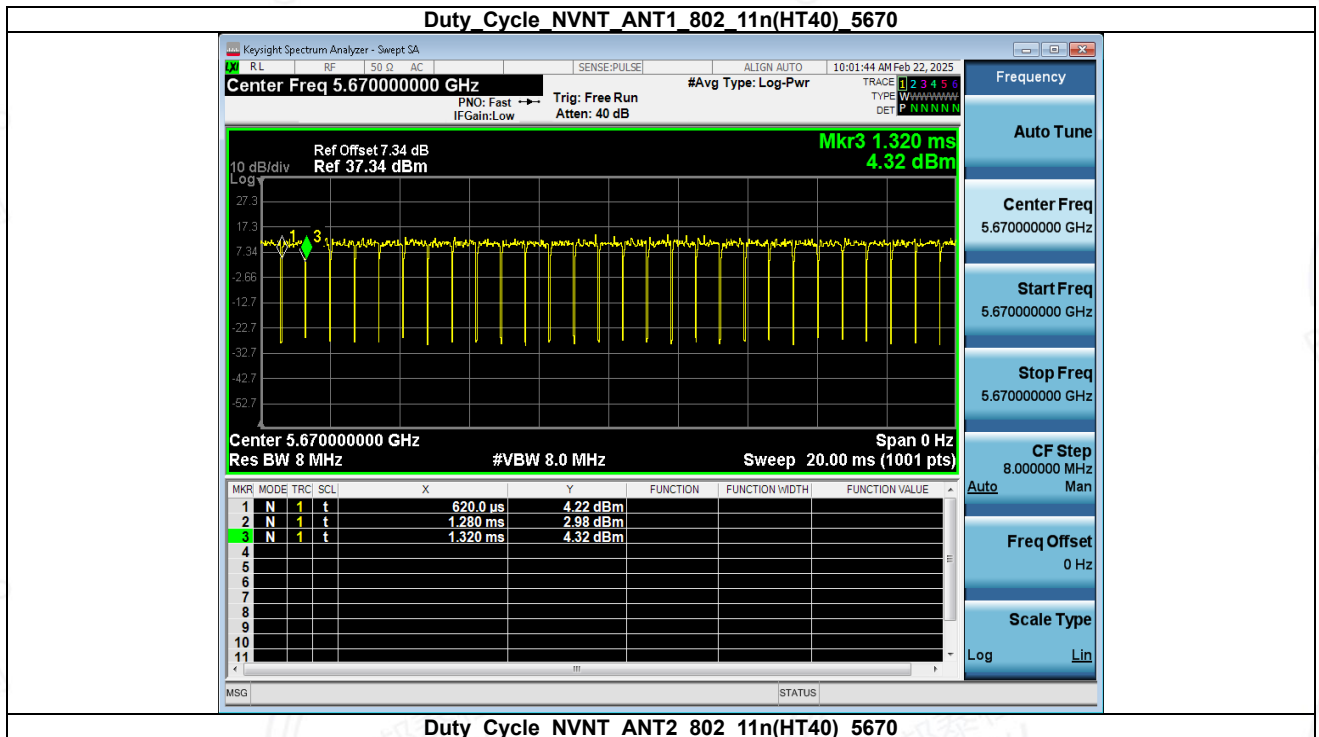
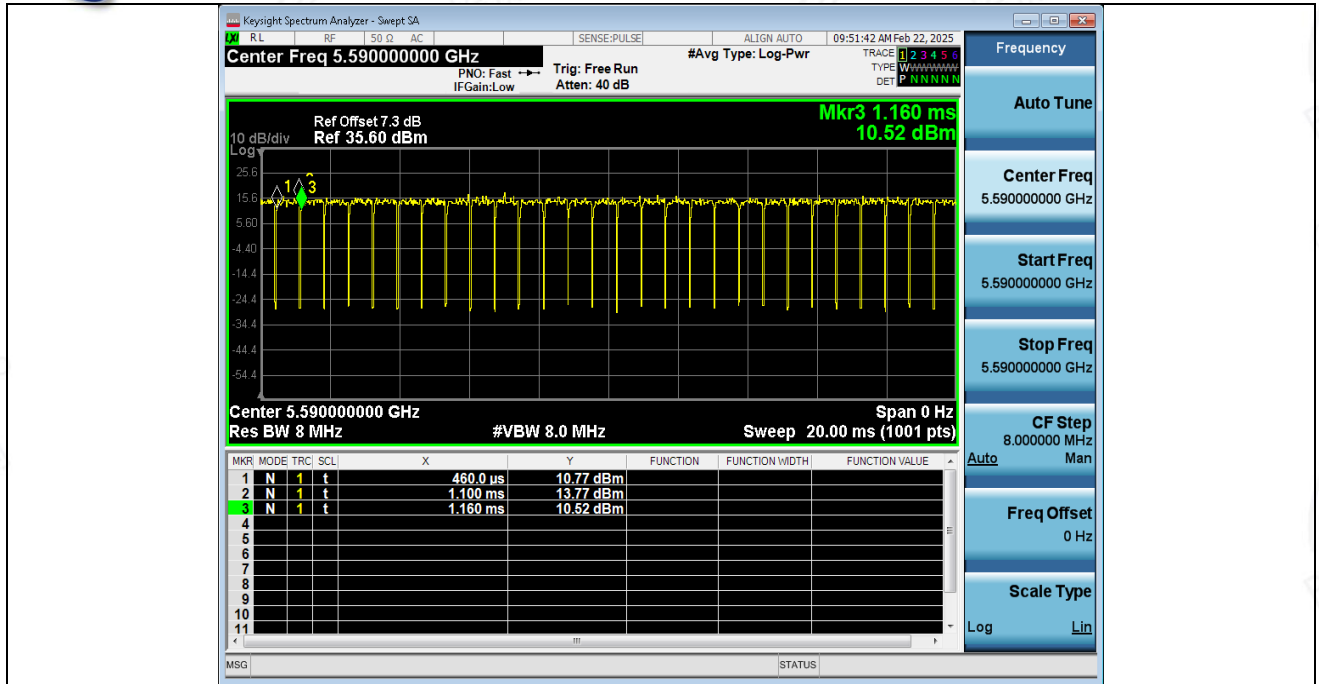


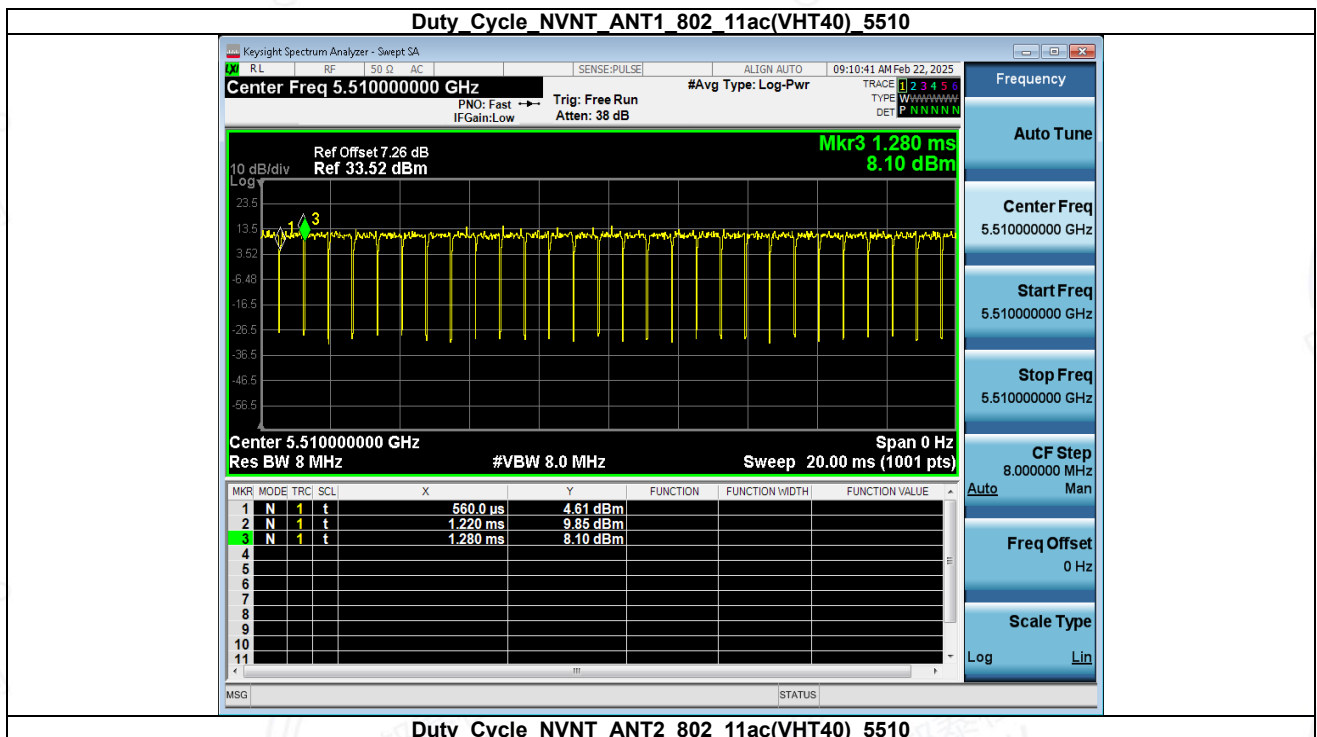
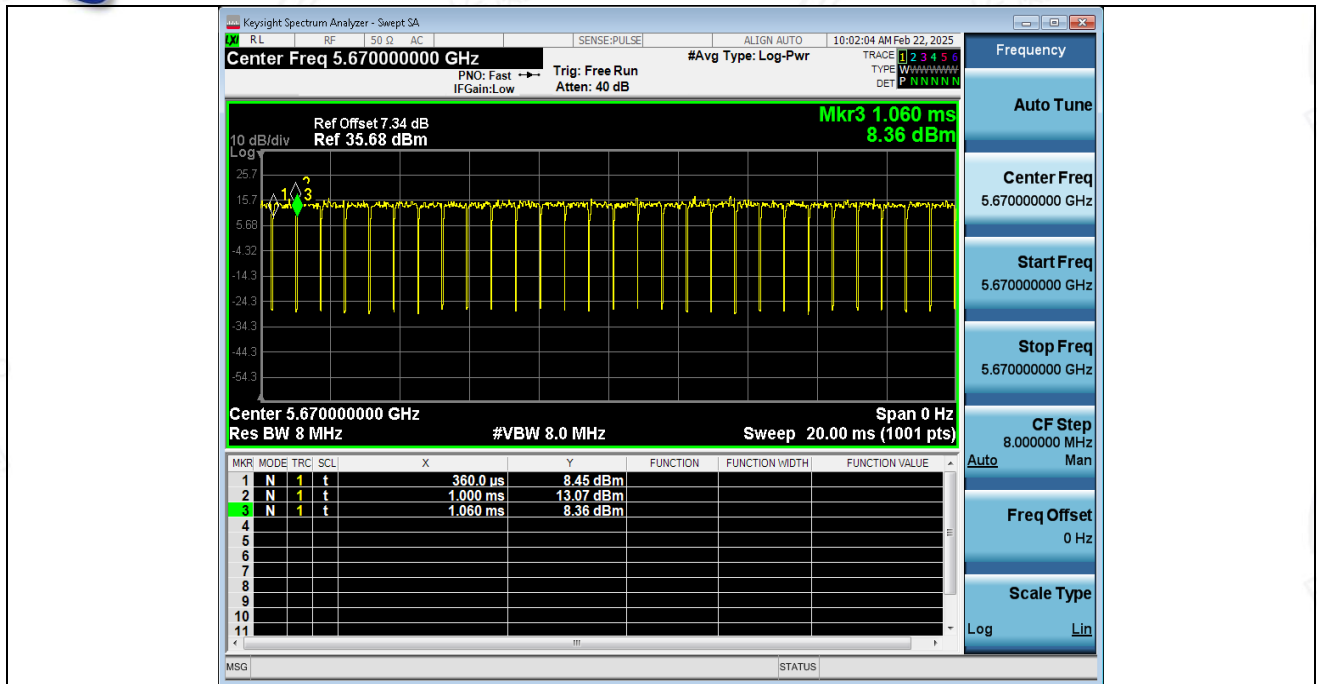


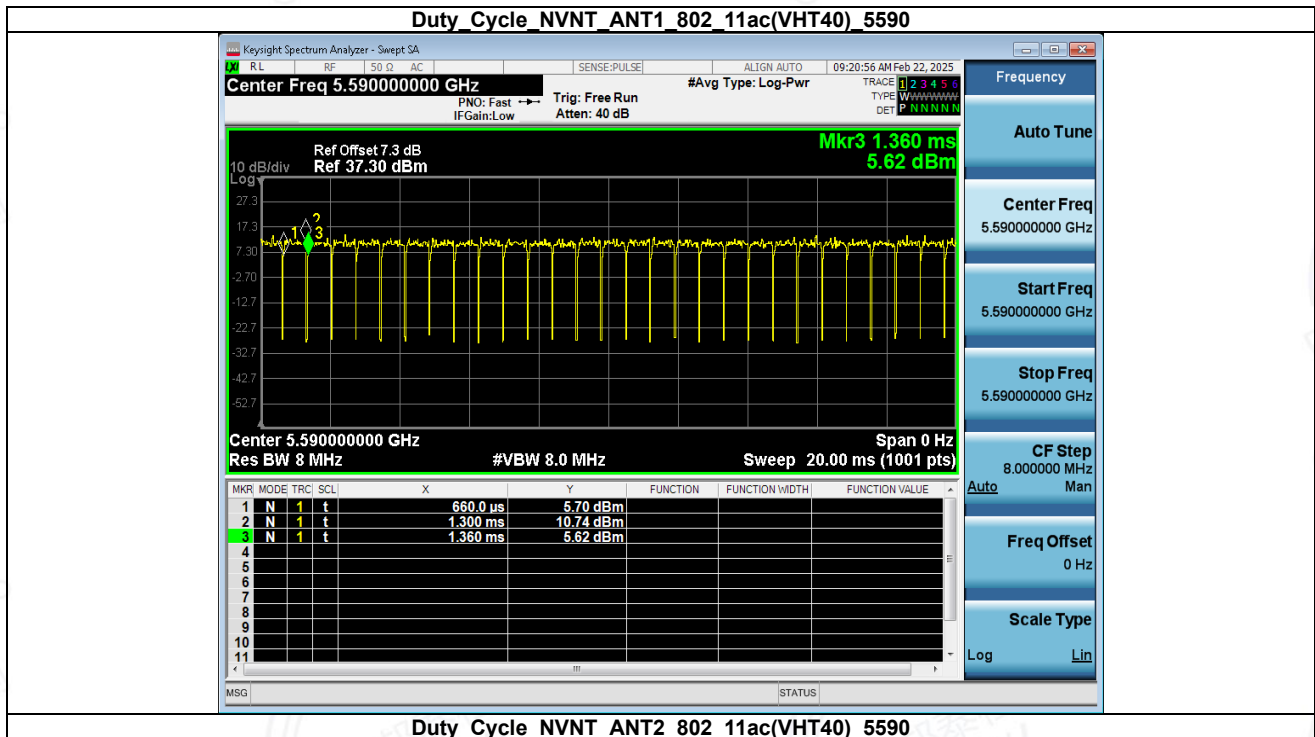
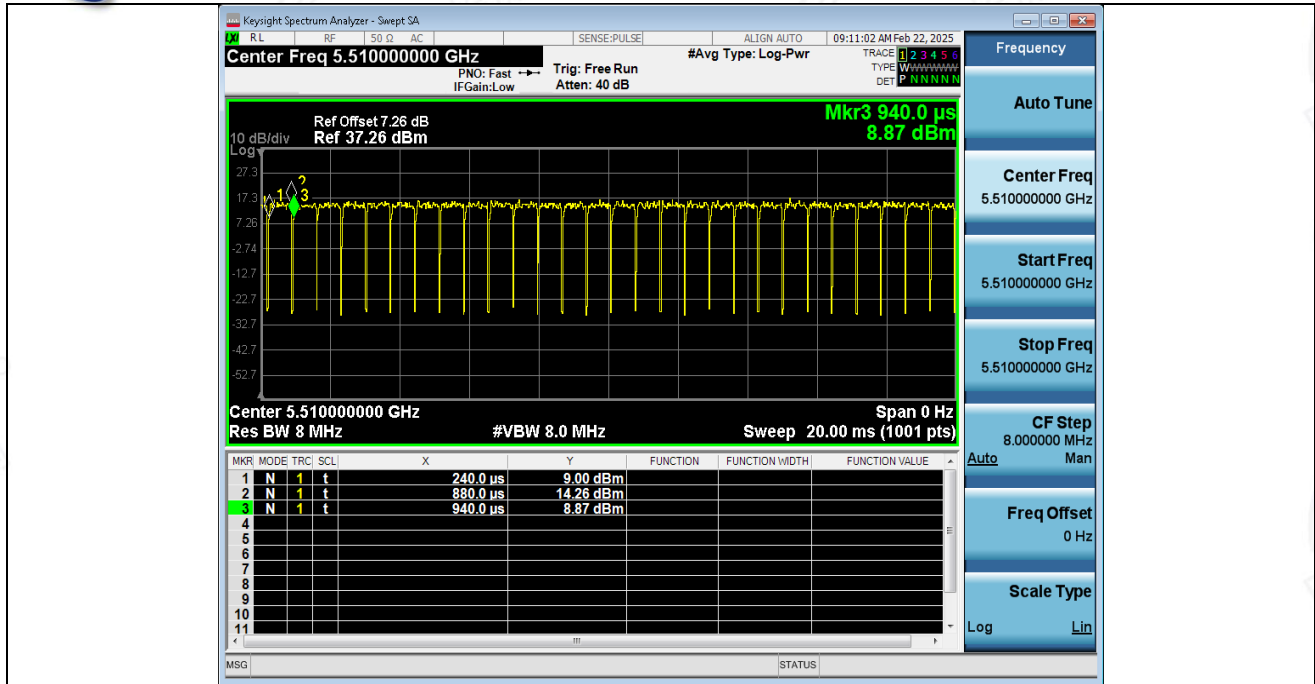


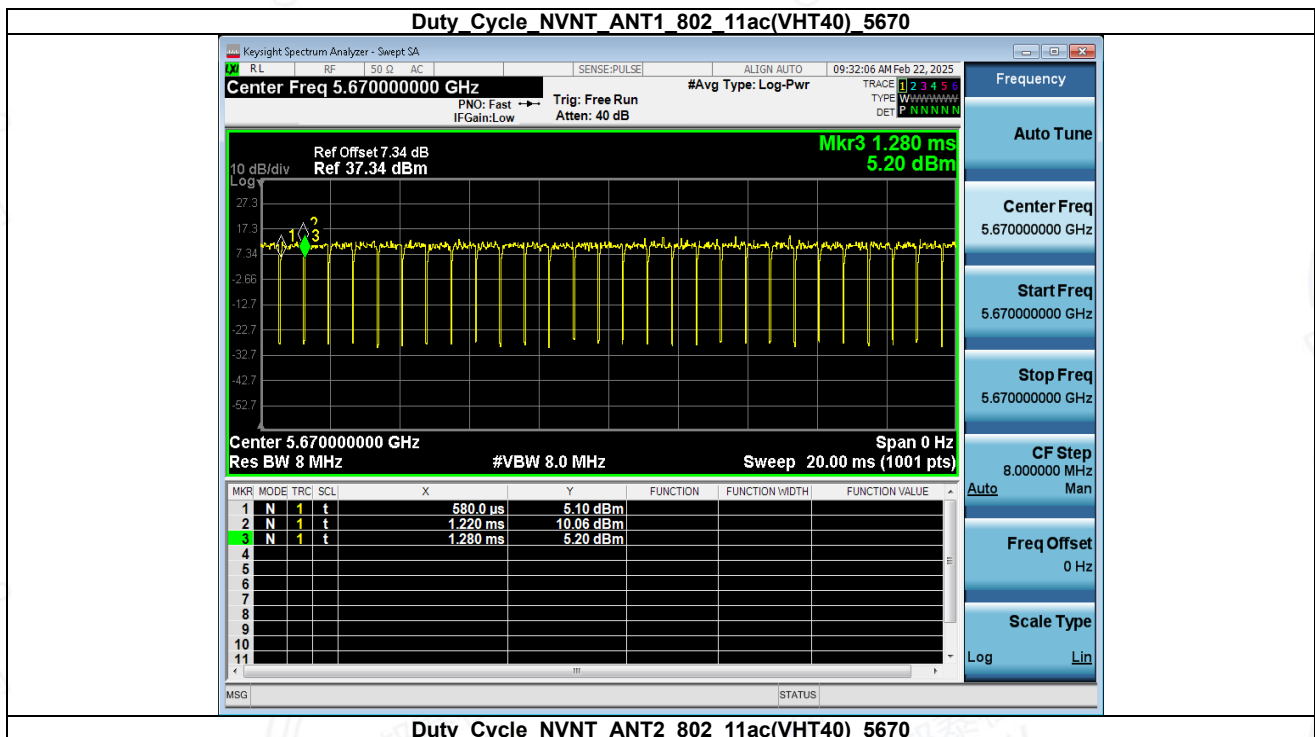
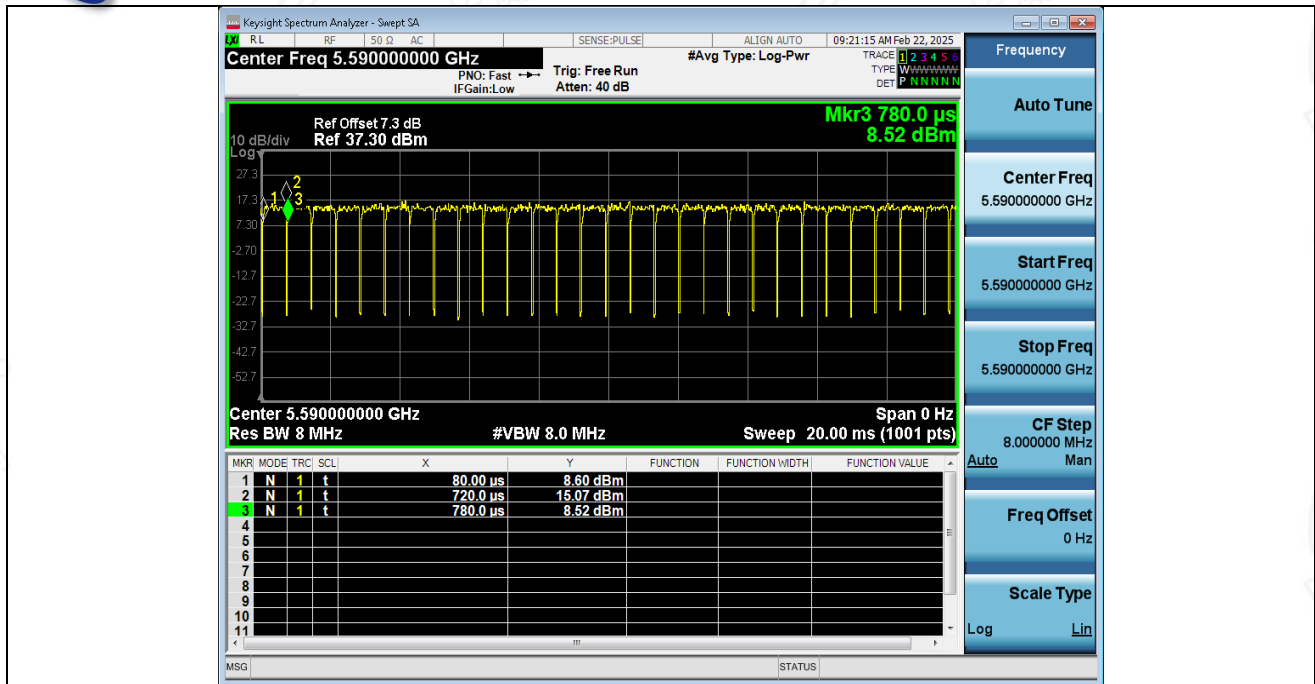


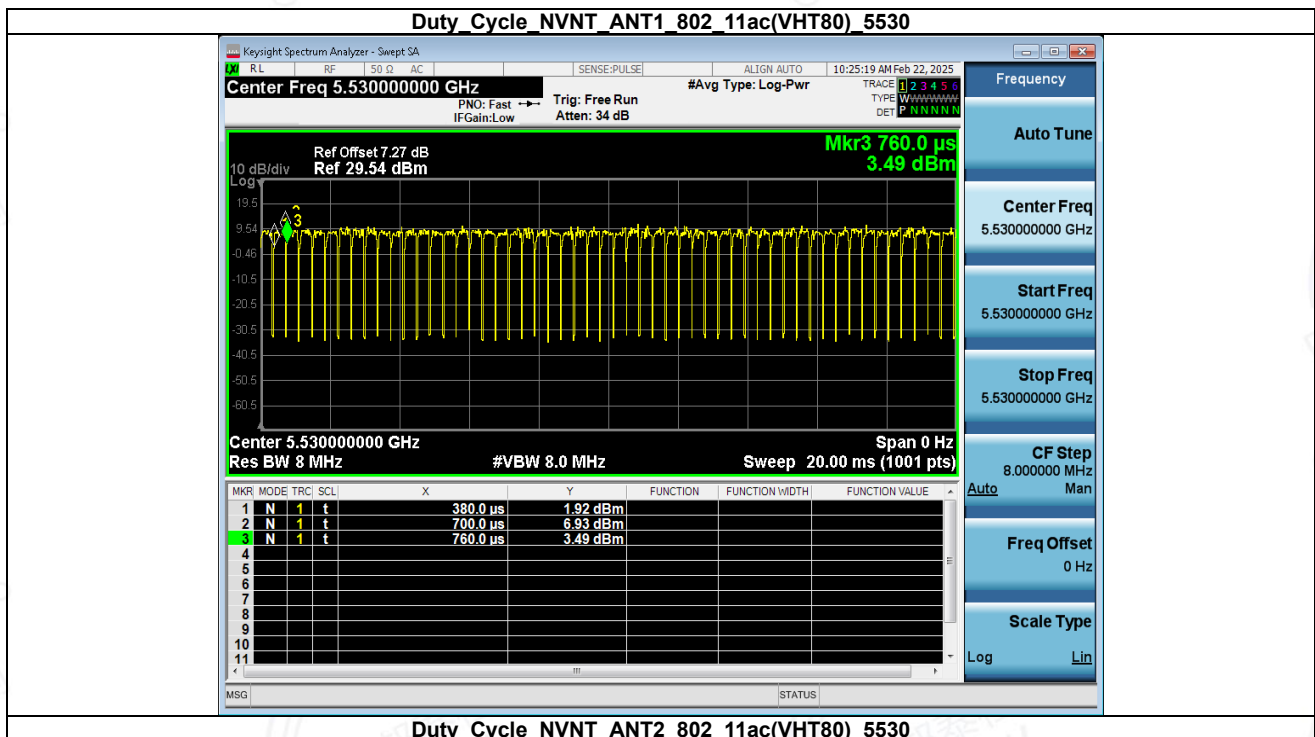
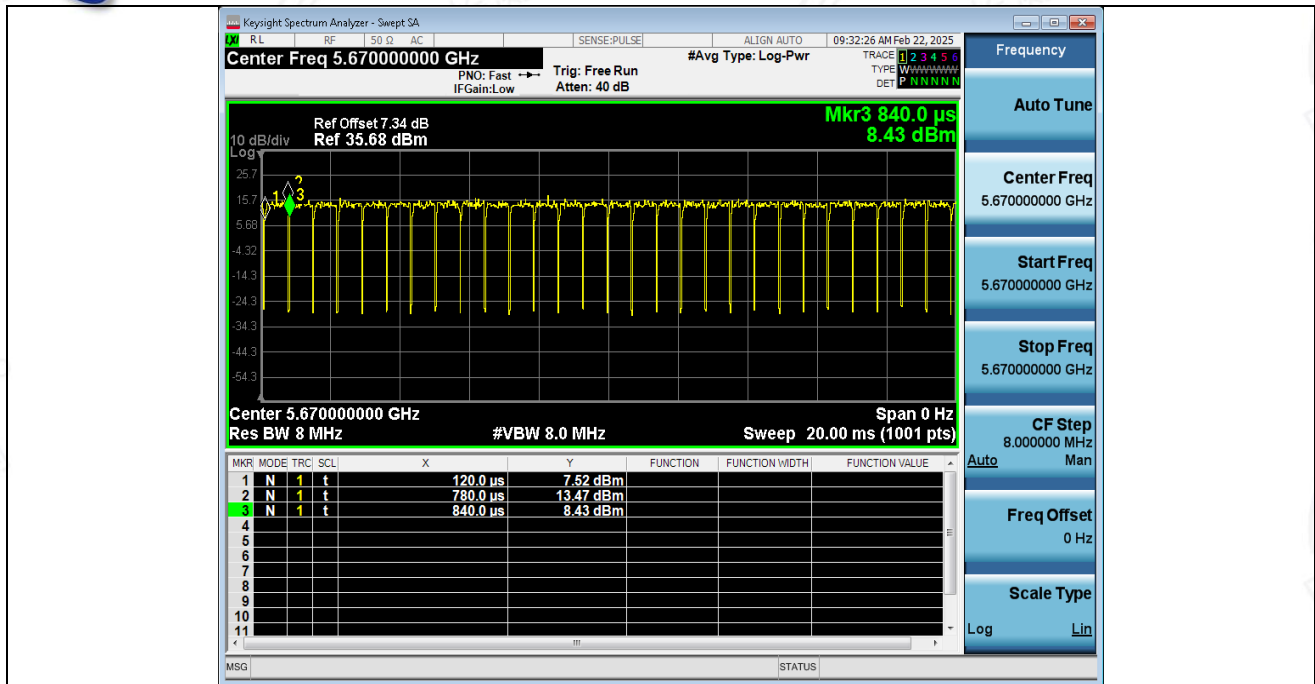


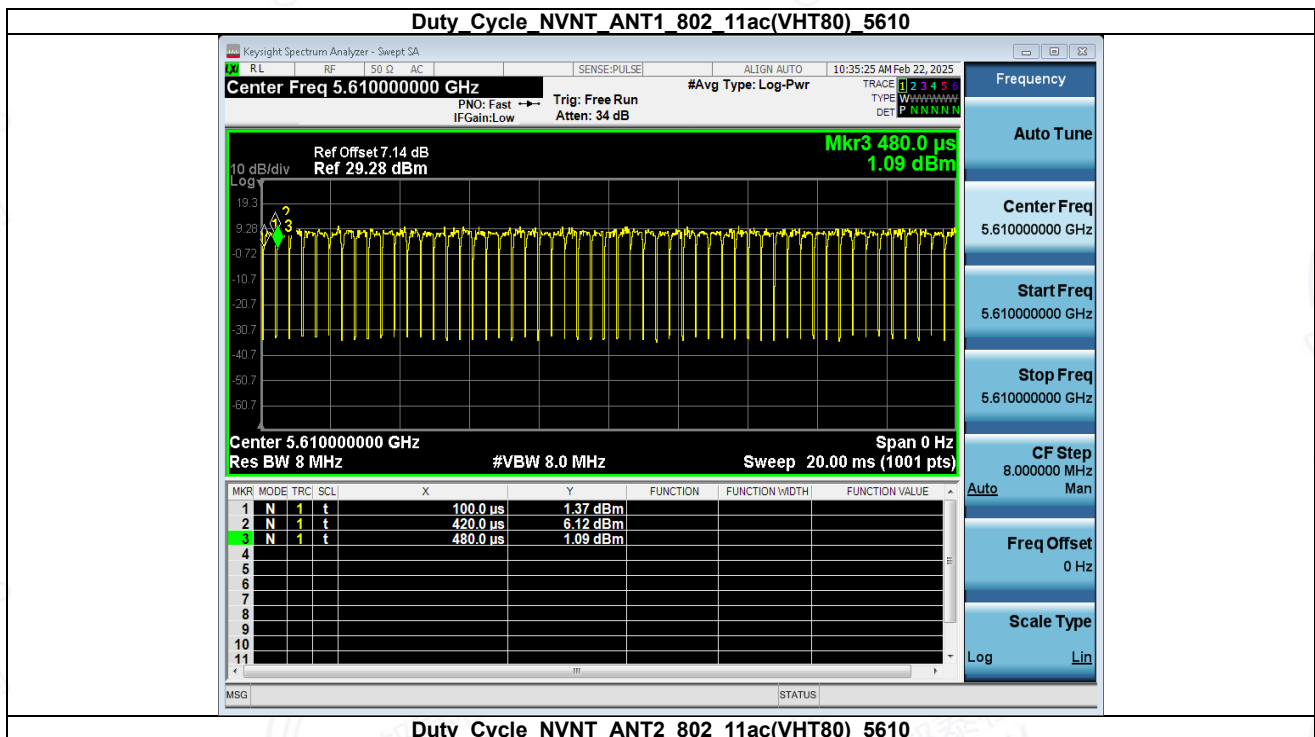
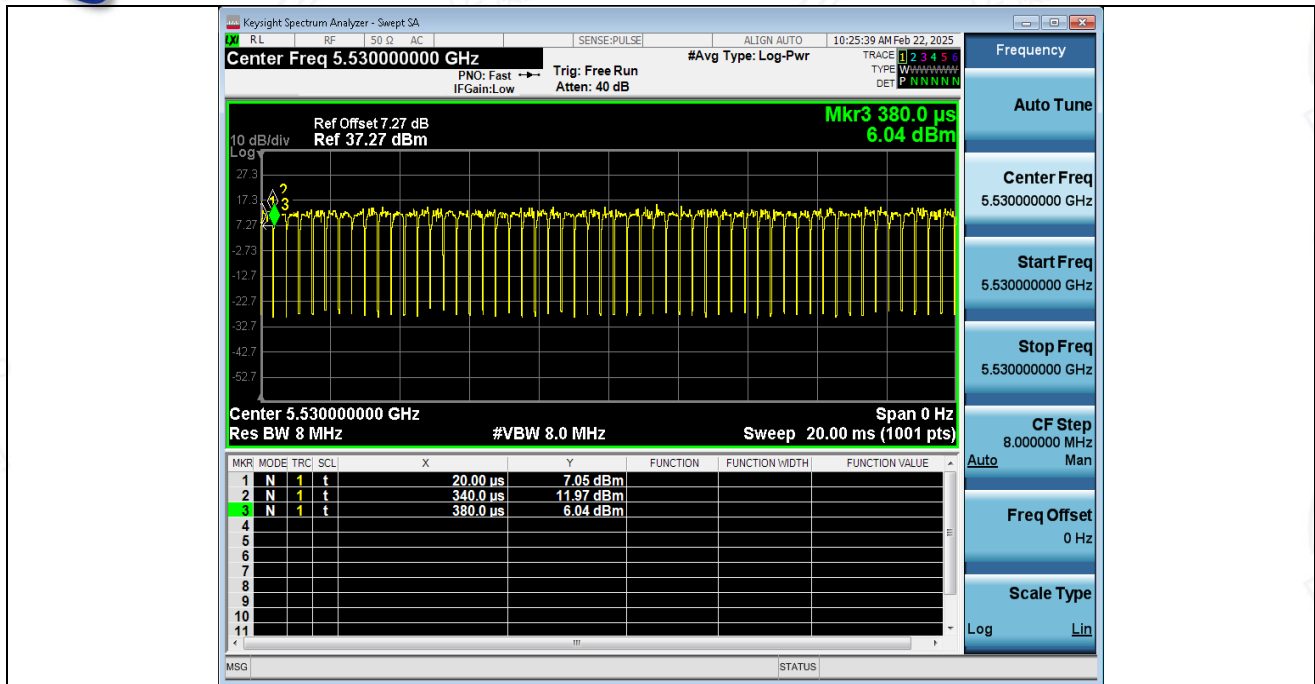


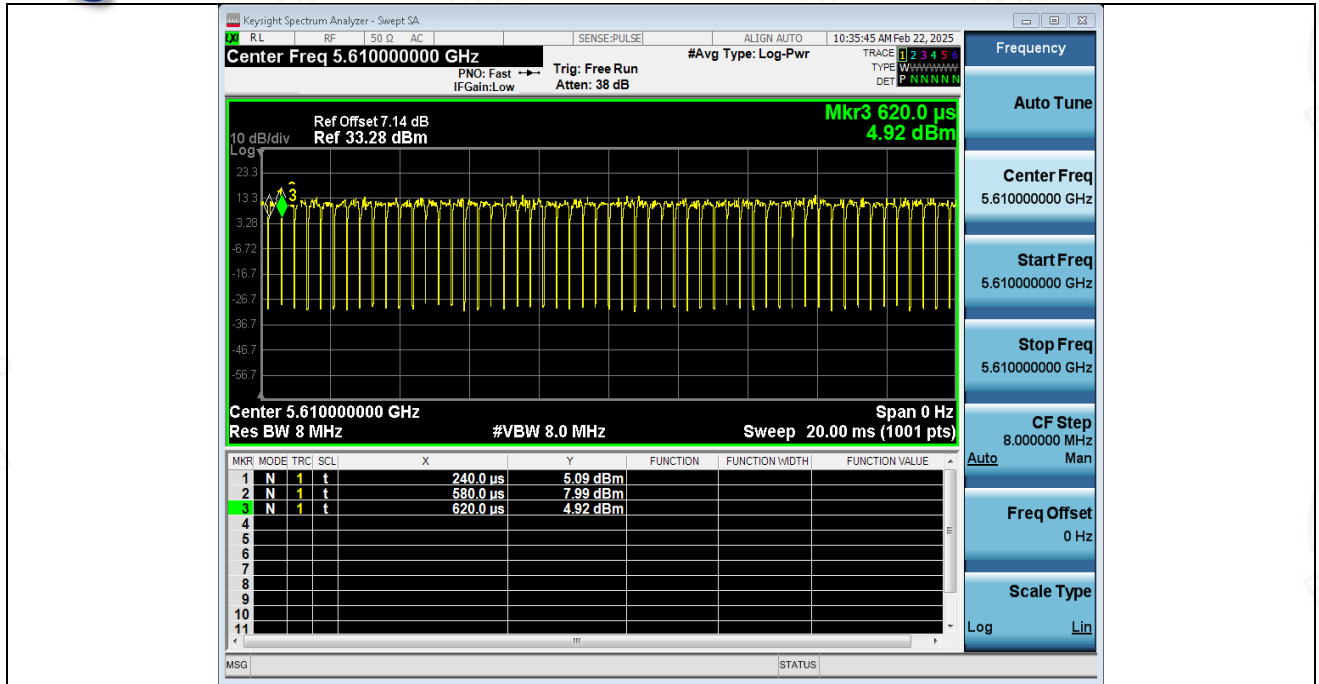








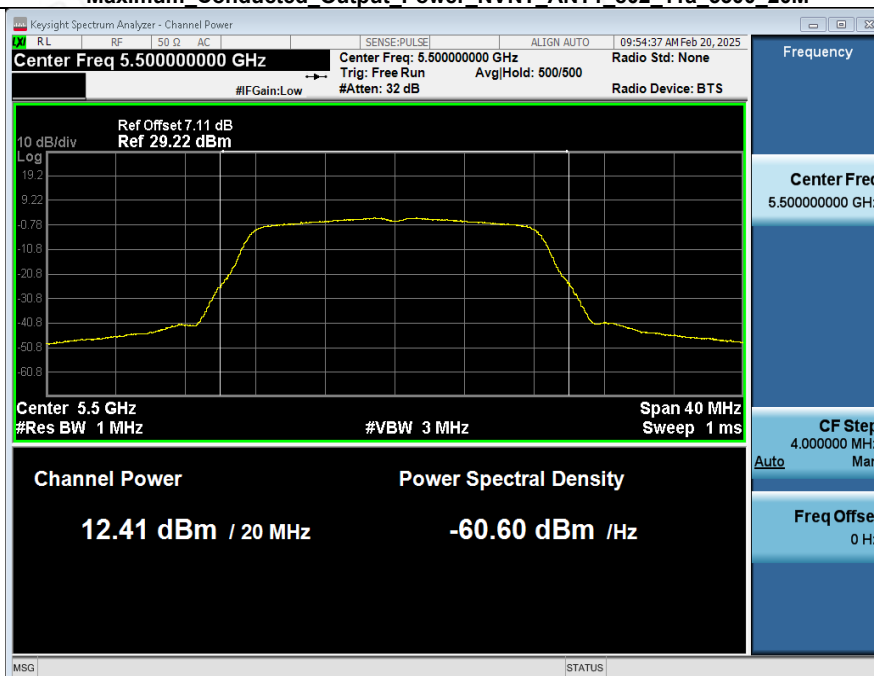




3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency(MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500.00	12.41	0.18	12.59	24	Pass
NVNT	ANT2	802.11a	5500.00	14.42	0.12	14.54	24	Pass
NVNT	ANT1	802.11a	5600.00	11.70	0.18	11.88	24	Pass
NVNT	ANT2	802.11a	5600.00	14.27	0.12	14.39	24	Pass
NVNT	ANT1	802.11a	5700.00	11.90	0.18	12.08	24	Pass
NVNT	ANT2	802.11a	5700.00	13.99	0.18	14.17	24	Pass
NVNT	ANT1	802.11n(HT20)	5500.00	10.22	0.13	10.35	24	Pass
NVNT	ANT2	802.11n(HT20)	5500.00	12.47	0.13	12.60	24	Pass
NVNT	ANT1	802.11n(HT20)	5600.00	9.65	0.20	9.85	24	Pass
NVNT	ANT2	802.11n(HT20)	5600.00	12.32	0.20	12.52	24	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	9.73	0.20	9.93	24	Pass
NVNT	ANT2	802.11n(HT20)	5700.00	12.02	0.20	12.22	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5500.00	10.25	0.19	10.44	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5500.00	12.49	0.19	12.68	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5600.00	9.62	0.13	9.75	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5600.00	12.35	0.19	12.54	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	9.67	0.20	9.87	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5700.00	11.94	0.19	12.13	24	Pass
NVNT	ANT1	802.11n(HT40)	5510.00	8.86	0.39	9.25	24	Pass
NVNT	ANT2	802.11n(HT40)	5510.00	12.56	0.39	12.95	24	Pass
NVNT	ANT1	802.11n(HT40)	5590.00	8.80	0.39	9.19	24	Pass
NVNT	ANT2	802.11n(HT40)	5590.00	12.27	0.39	12.66	24	Pass
NVNT	ANT1	802.11n(HT40)	5670.00	8.77	0.26	9.03	24	Pass
NVNT	ANT2	802.11n(HT40)	5670.00	11.93	0.39	12.32	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5510.00	9.06	0.38	9.44	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5510.00	12.63	0.39	13.02	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5590.00	8.86	0.39	9.25	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5590.00	12.38	0.39	12.77	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5670.00	8.74	0.39	9.13	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5670.00	11.95	0.38	12.33	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5530.00	8.56	0.75	9.31	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5530.00	12.18	0.51	12.69	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5610.00	8.26	0.75	9.01	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5610.00	11.45	0.48	11.93	24	Pass

Maximum Conducted Output Power_NVNT_ANT1_802_11a_5500_20M



Maximum Conducted Output Power_NVNT_ANT2_802_11a_5500_20M



