

Appendix

Test Data

for BTEK241108034A01E04

Start date	2025/1/6	Finish date	2025/1/6
Temperature	22.2℃	Humidity	33%
RF specifications	5.2G WIFI	Test Engineer	Zora



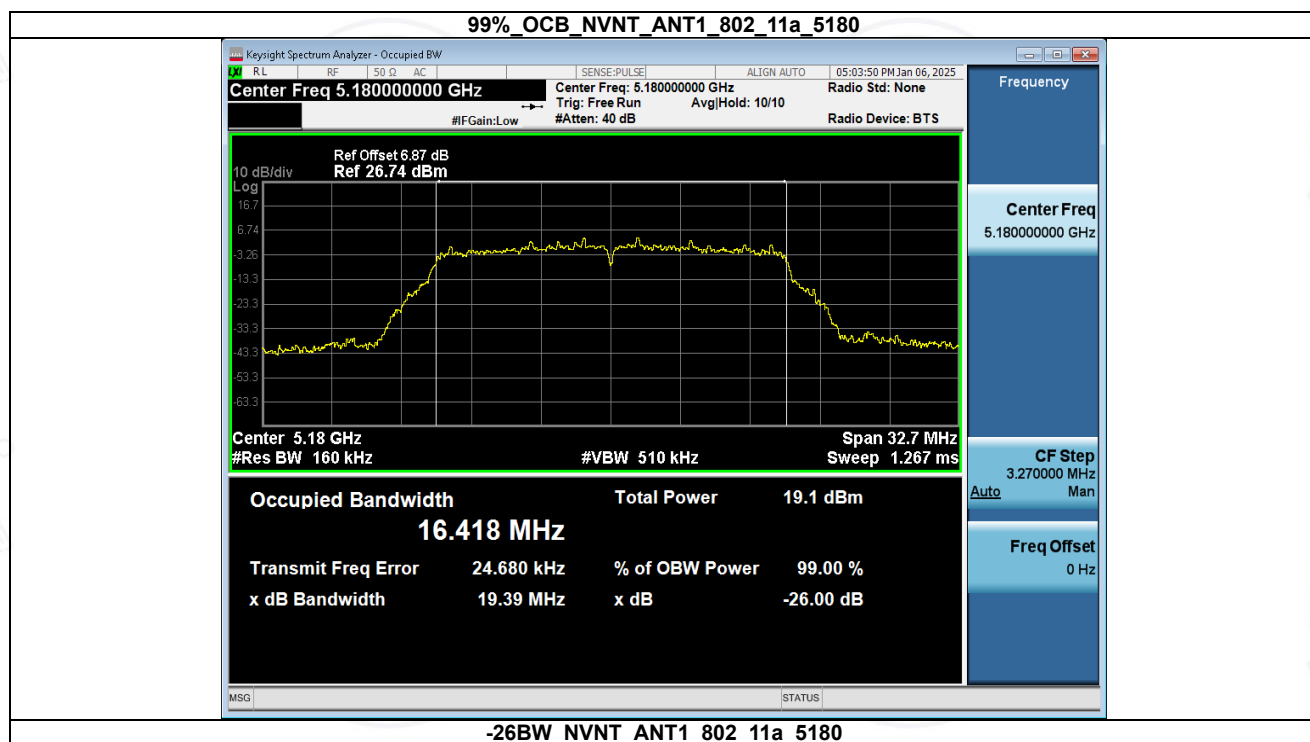
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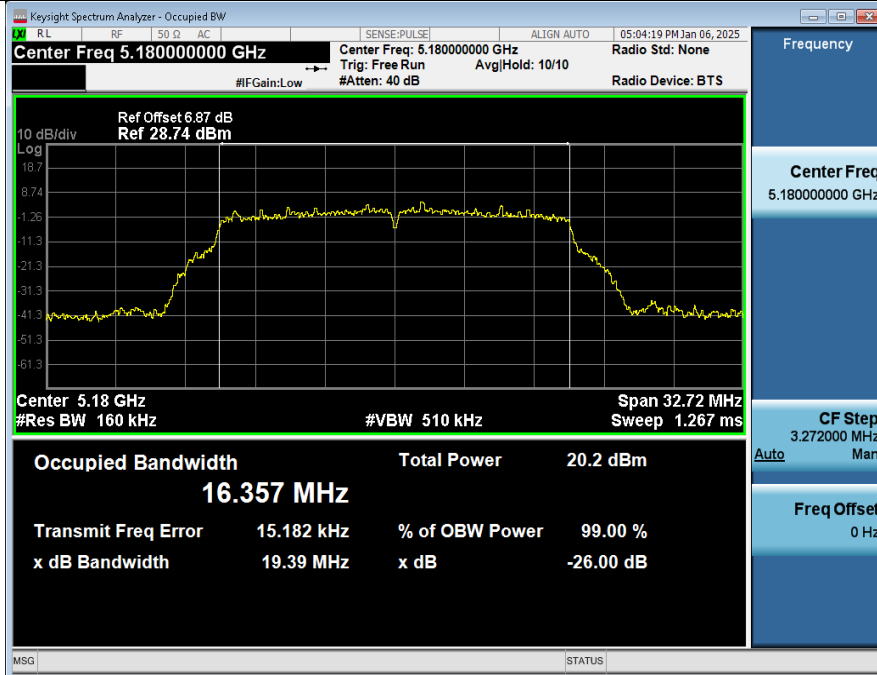
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	26dB Emission Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	19.84	16.42
NVNT	ANT2	802.11a	5180.00	19.60	16.36
NVNT	ANT1	802.11a	5200.00	19.88	16.41
NVNT	ANT2	802.11a	5200.00	19.62	16.37
NVNT	ANT1	802.11a	5240.00	20.08	16.45
NVNT	ANT2	802.11a	5240.00	19.78	16.39
NVNT	ANT1	802.11n(HT20)	5180.00	20.17	17.57
NVNT	ANT2	802.11n(HT20)	5180.00	19.97	17.58
NVNT	ANT1	802.11n(HT20)	5200.00	20.22	17.54
NVNT	ANT2	802.11n(HT20)	5200.00	19.89	17.56
NVNT	ANT1	802.11n(HT20)	5240.00	20.13	17.57
NVNT	ANT2	802.11n(HT20)	5240.00	20.14	17.57
NVNT	ANT1	802.11ac(VHT20)	5180.00	20.09	17.55
NVNT	ANT2	802.11ac(VHT20)	5180.00	20.06	17.55
NVNT	ANT1	802.11ac(VHT20)	5200.00	20.01	17.56
NVNT	ANT2	802.11ac(VHT20)	5200.00	20.01	17.56
NVNT	ANT1	802.11ac(VHT20)	5240.00	20.13	17.56
NVNT	ANT2	802.11ac(VHT20)	5240.00	20.09	17.58
NVNT	ANT1	802.11n(HT40)	5190.00	40.05	35.93
NVNT	ANT2	802.11n(HT40)	5190.00	39.58	36.05
NVNT	ANT1	802.11n(HT40)	5230.00	40.36	36.04
NVNT	ANT2	802.11n(HT40)	5230.00	39.81	36.02
NVNT	ANT1	802.11ac(VHT40)	5190.00	40.01	35.95
NVNT	ANT2	802.11ac(VHT40)	5190.00	39.65	36.02
NVNT	ANT1	802.11ac(VHT40)	5230.00	40.34	35.99
NVNT	ANT2	802.11ac(VHT40)	5230.00	39.66	36.04
NVNT	ANT1	802.11ac(VHT80)	5210.00	81.58	75.88
NVNT	ANT2	802.11ac(VHT80)	5210.00	80.11	75.70



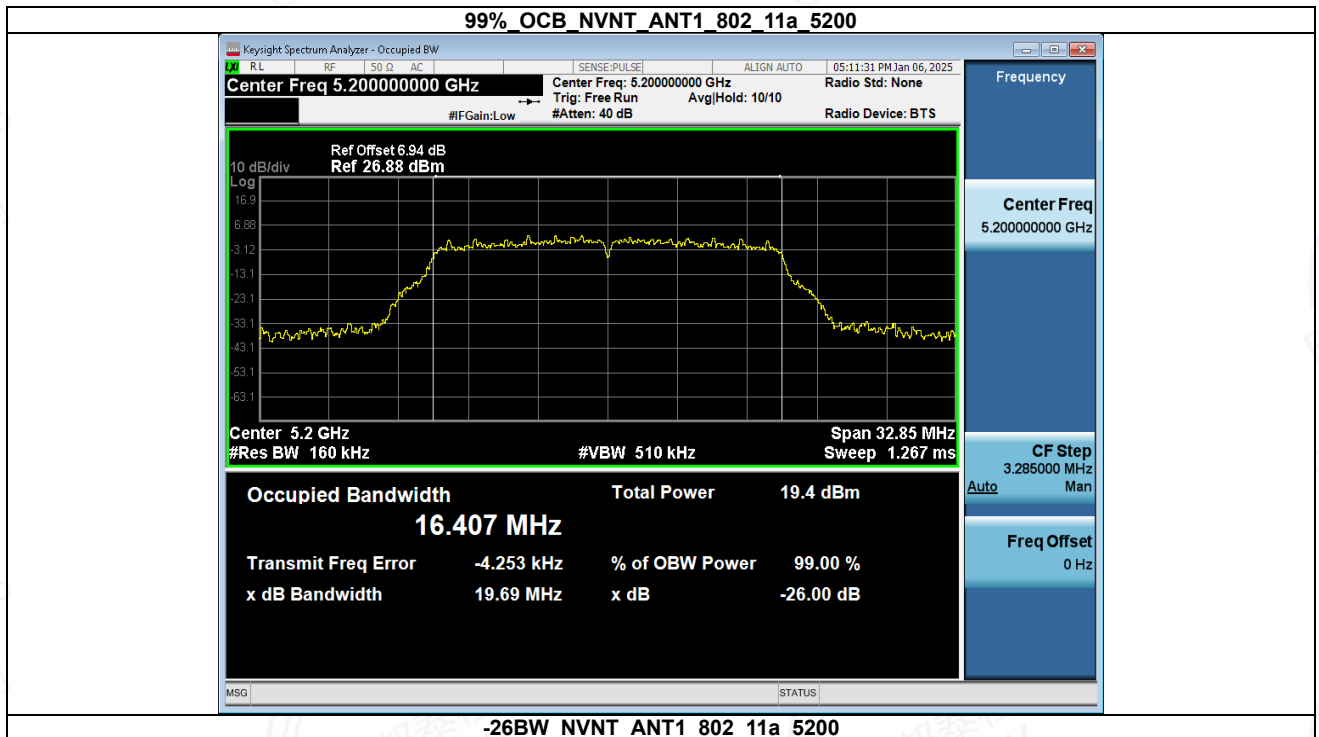
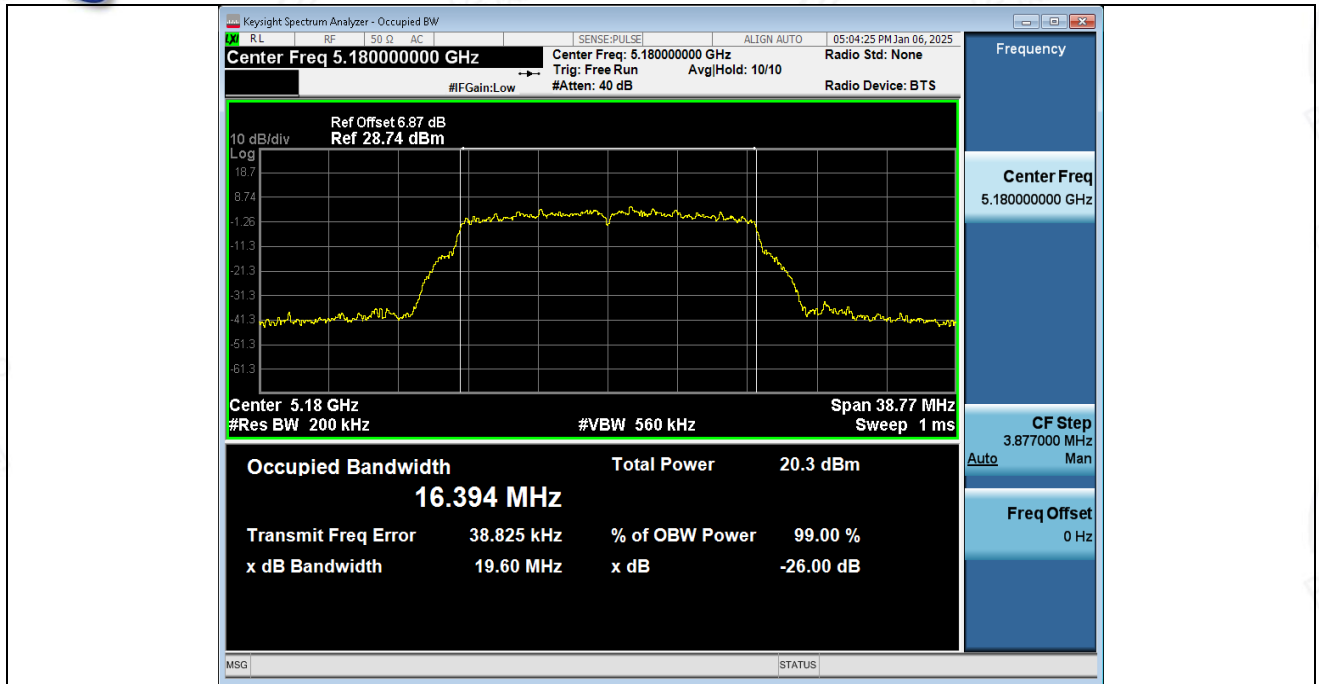


99%_OCB_NVNT_ANT2_802_11a_5180



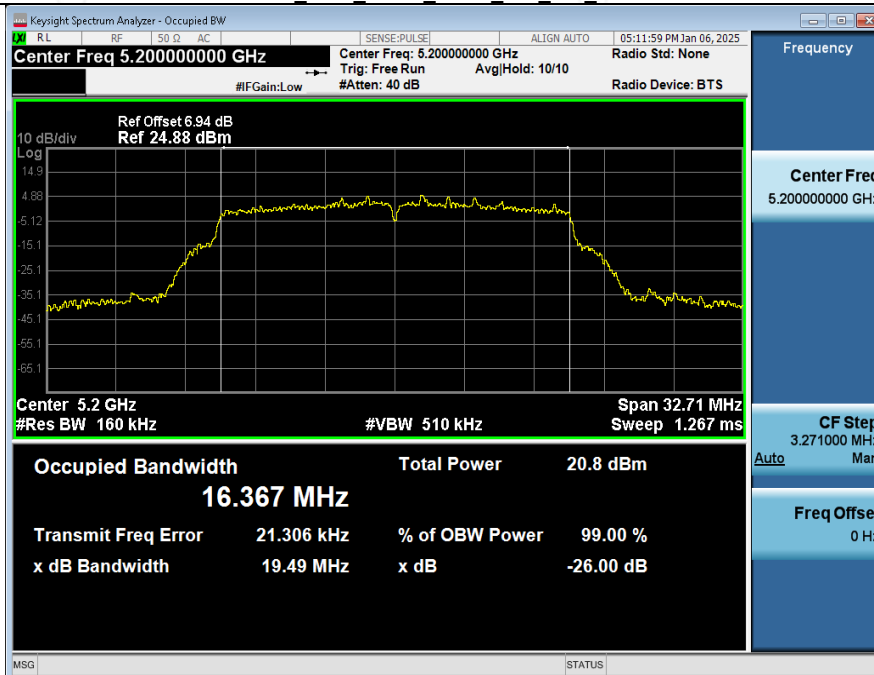
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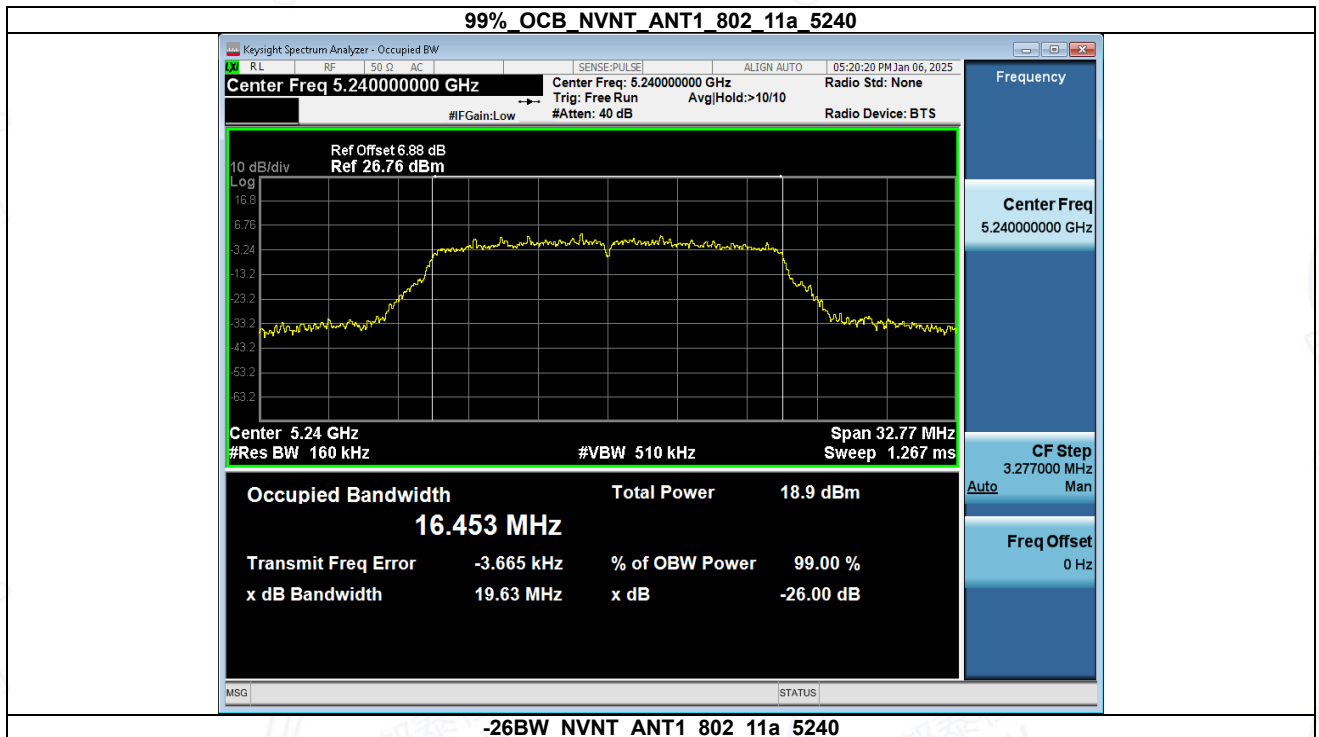
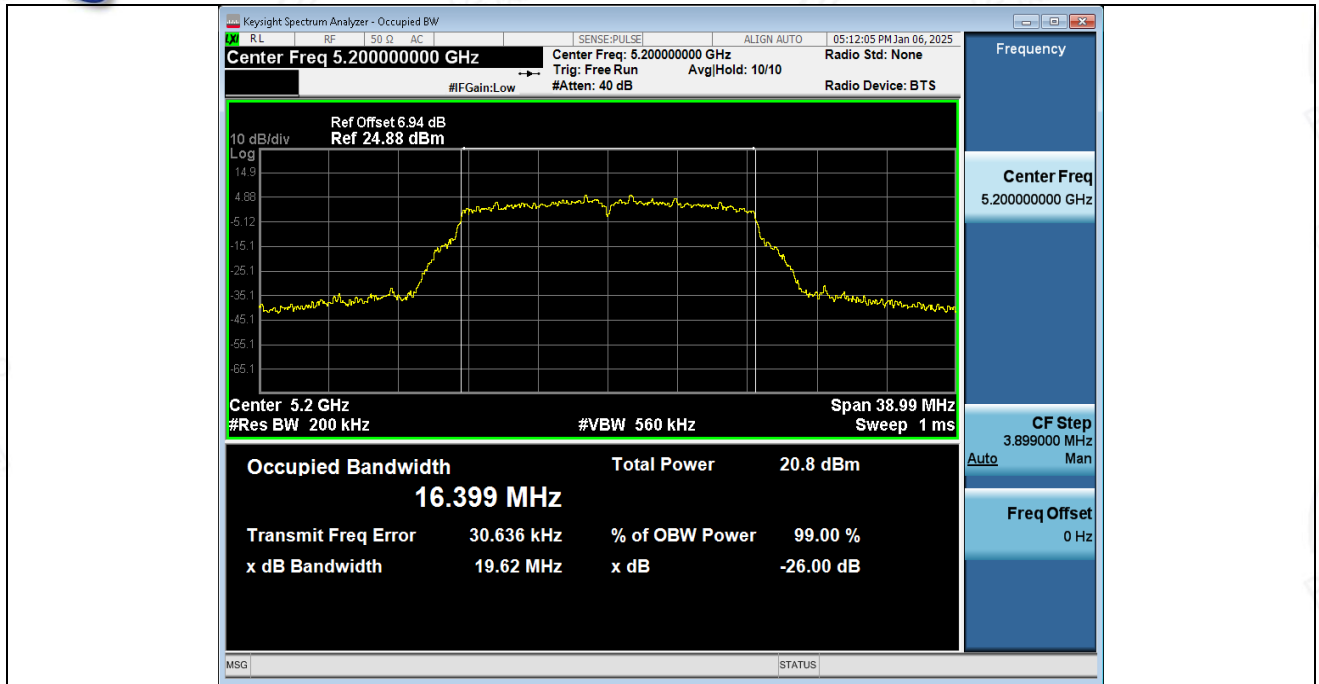


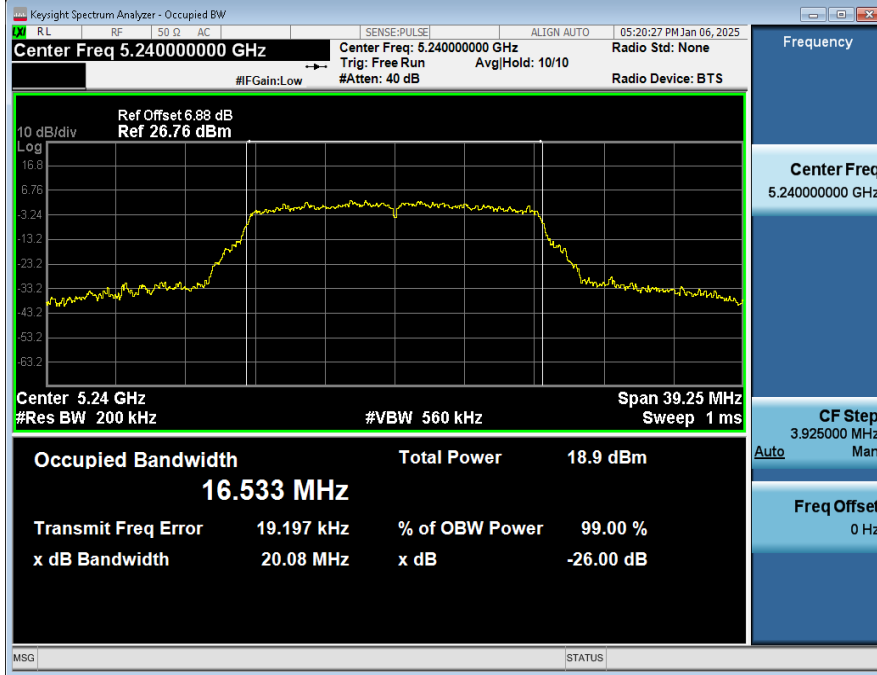
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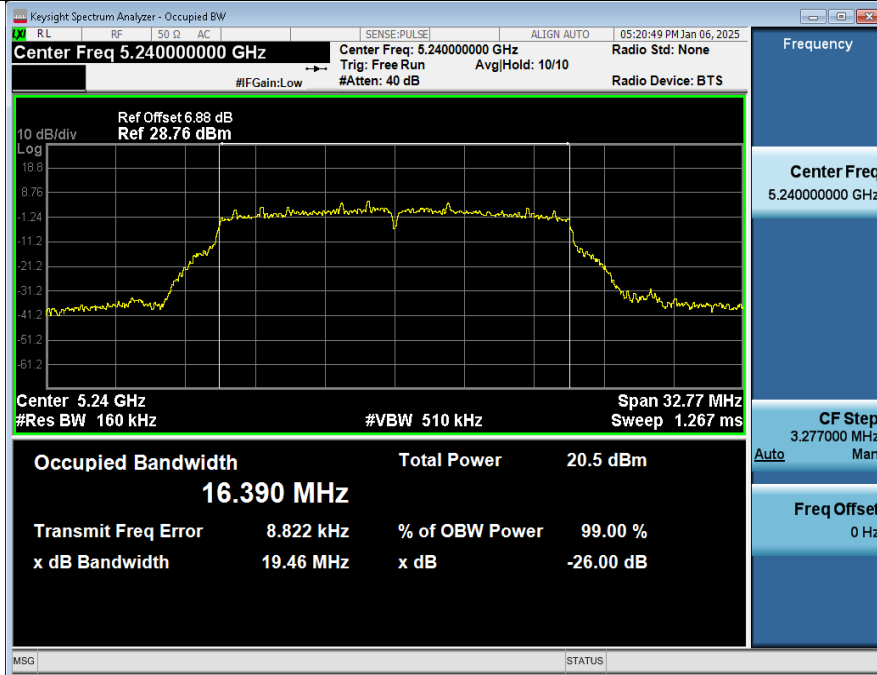
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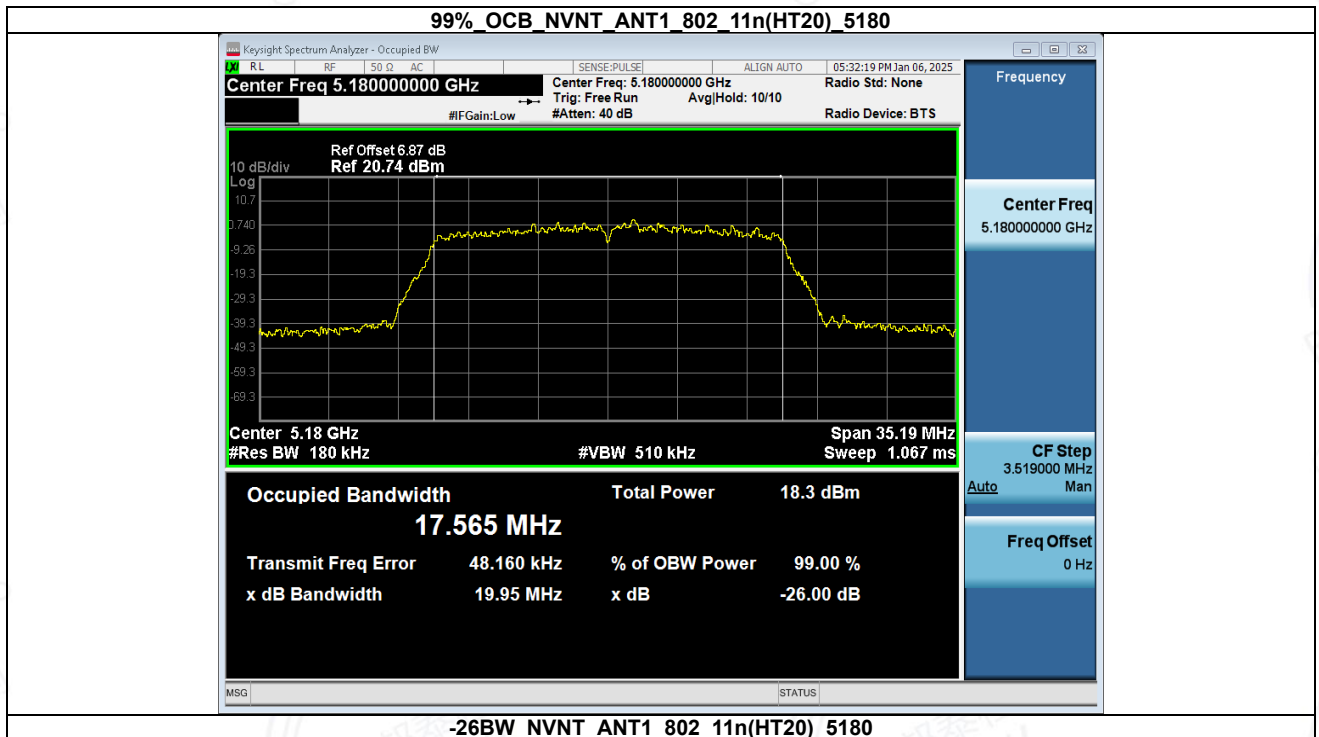
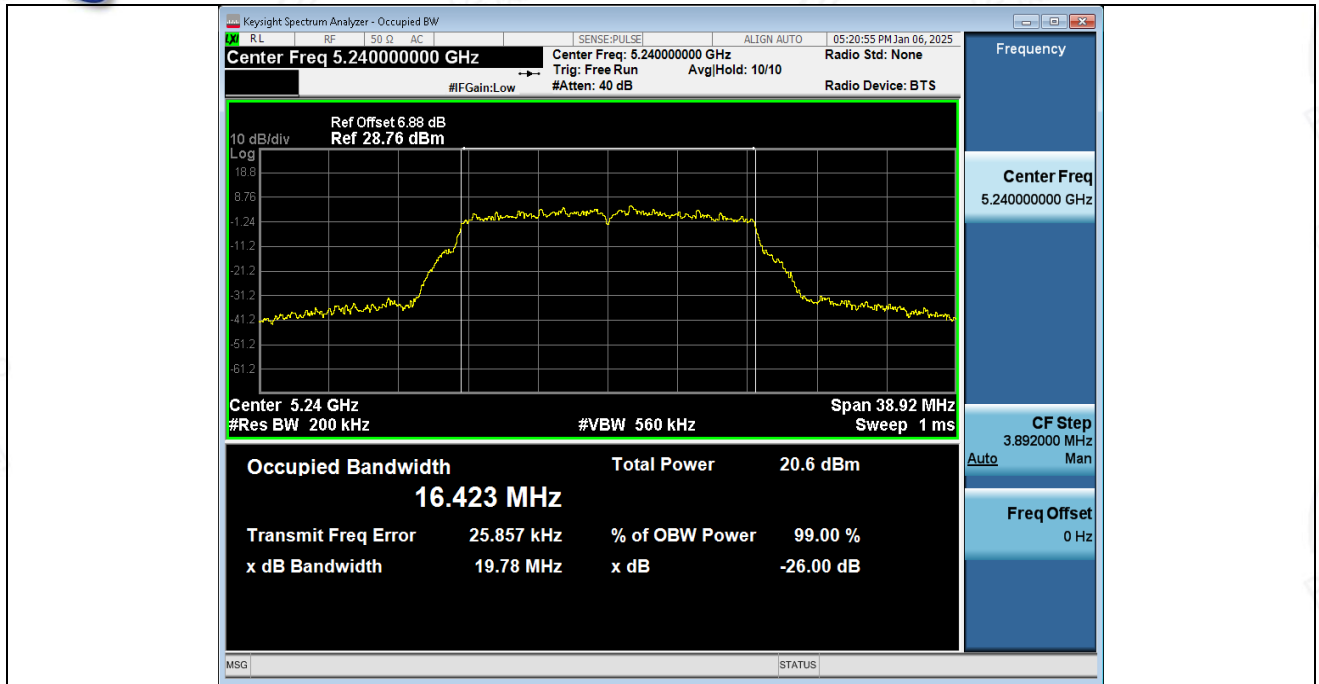


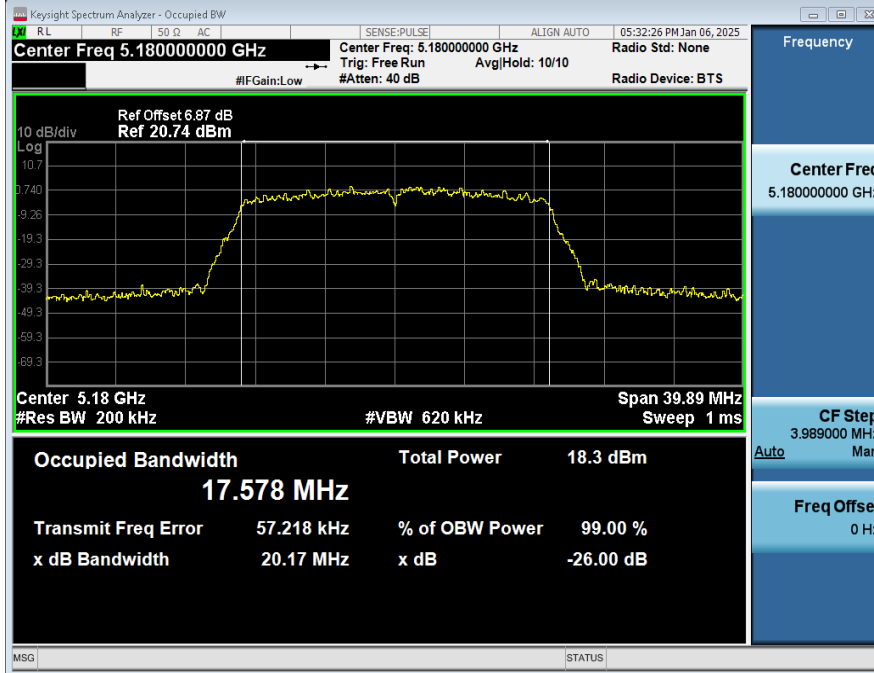
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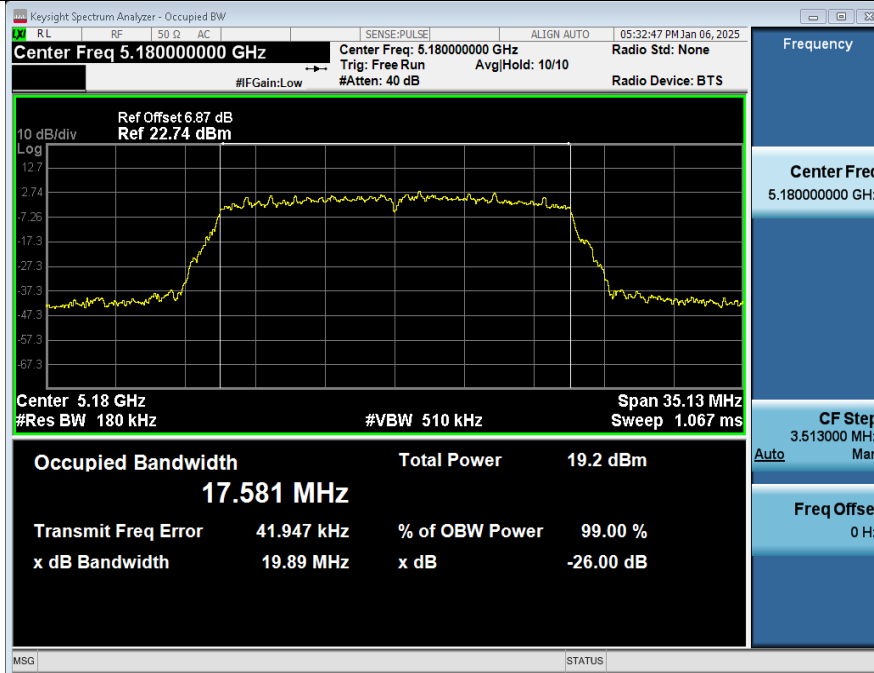
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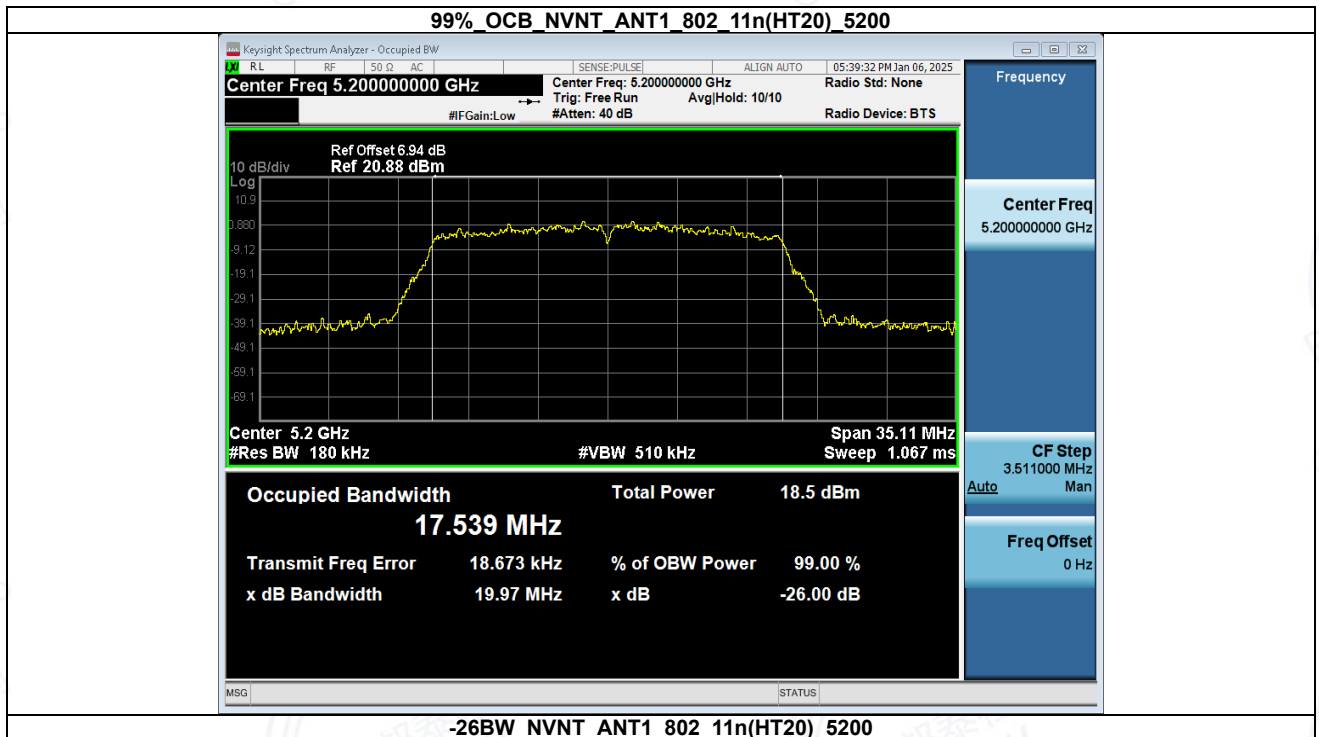
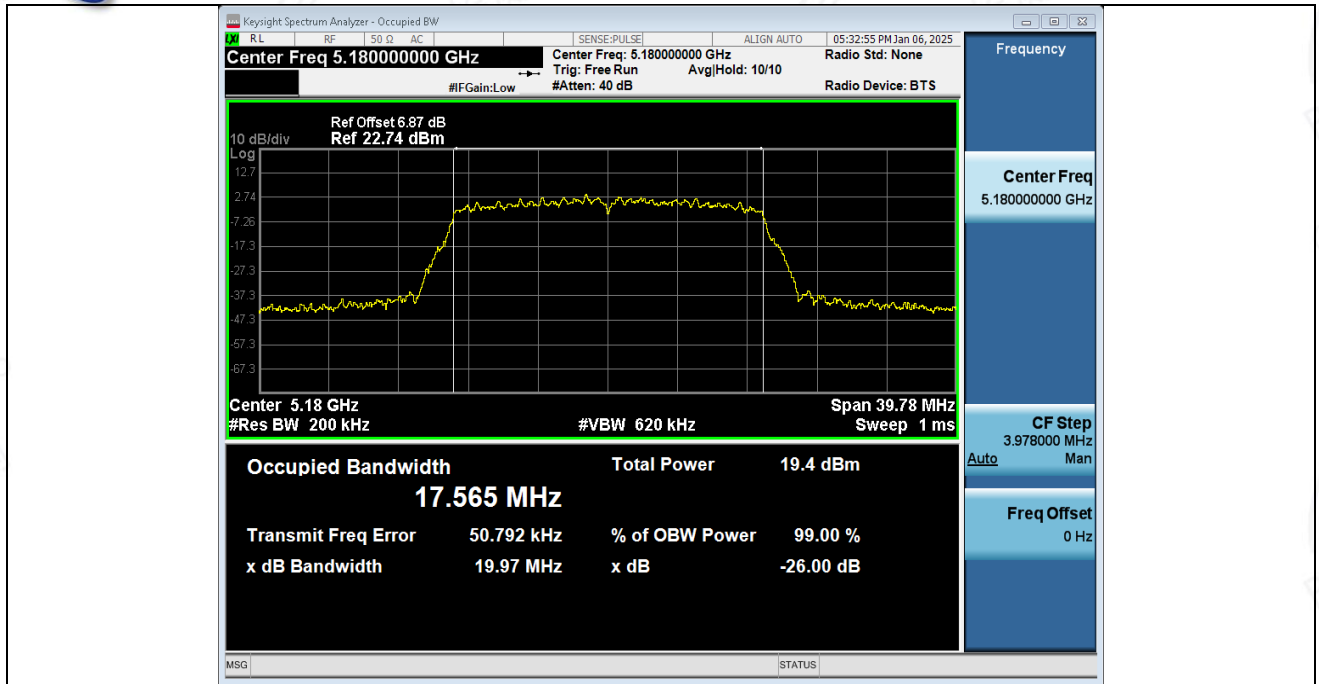


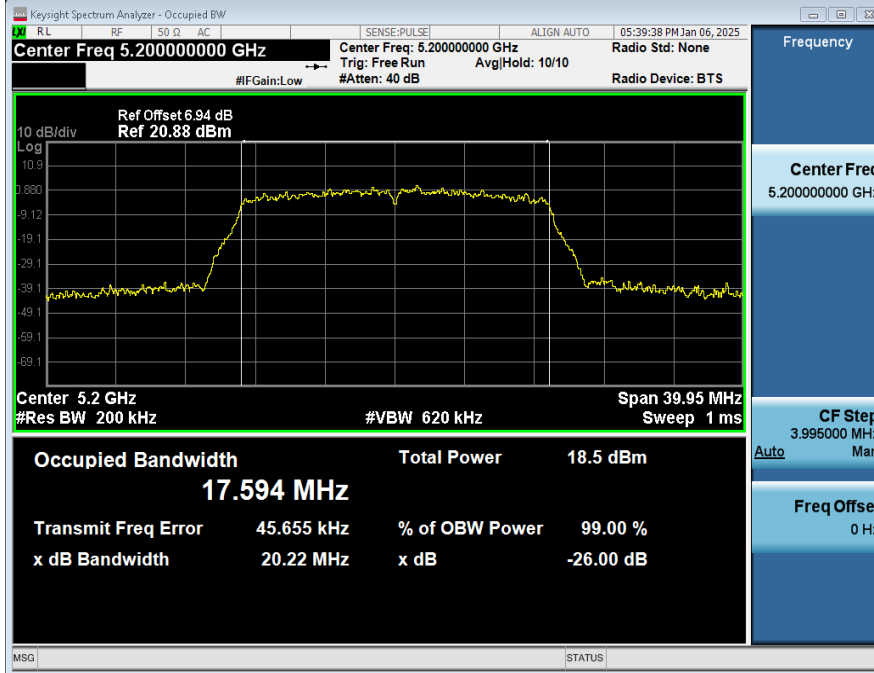
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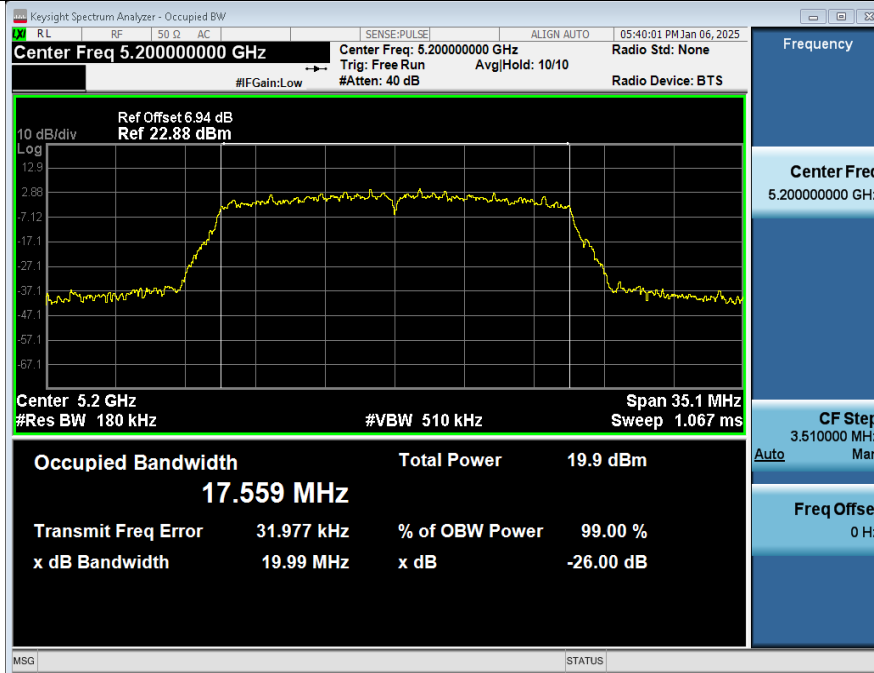
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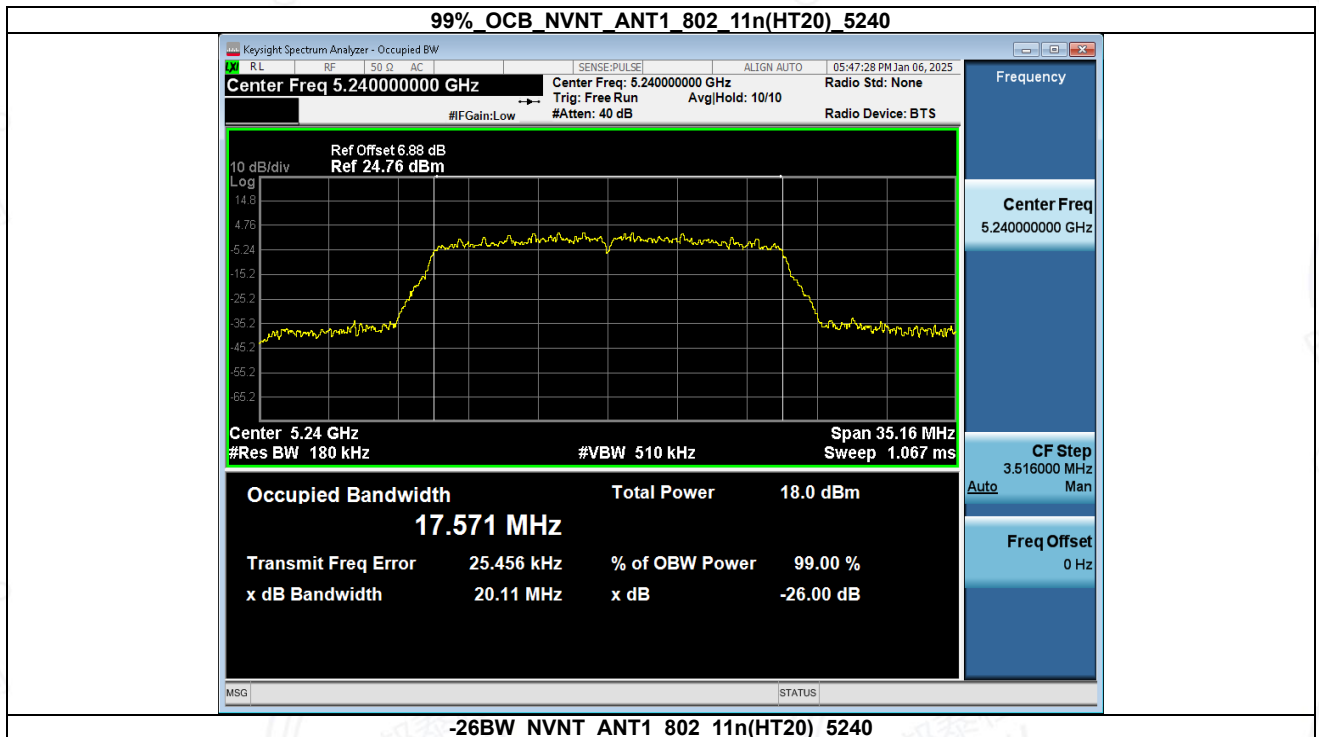
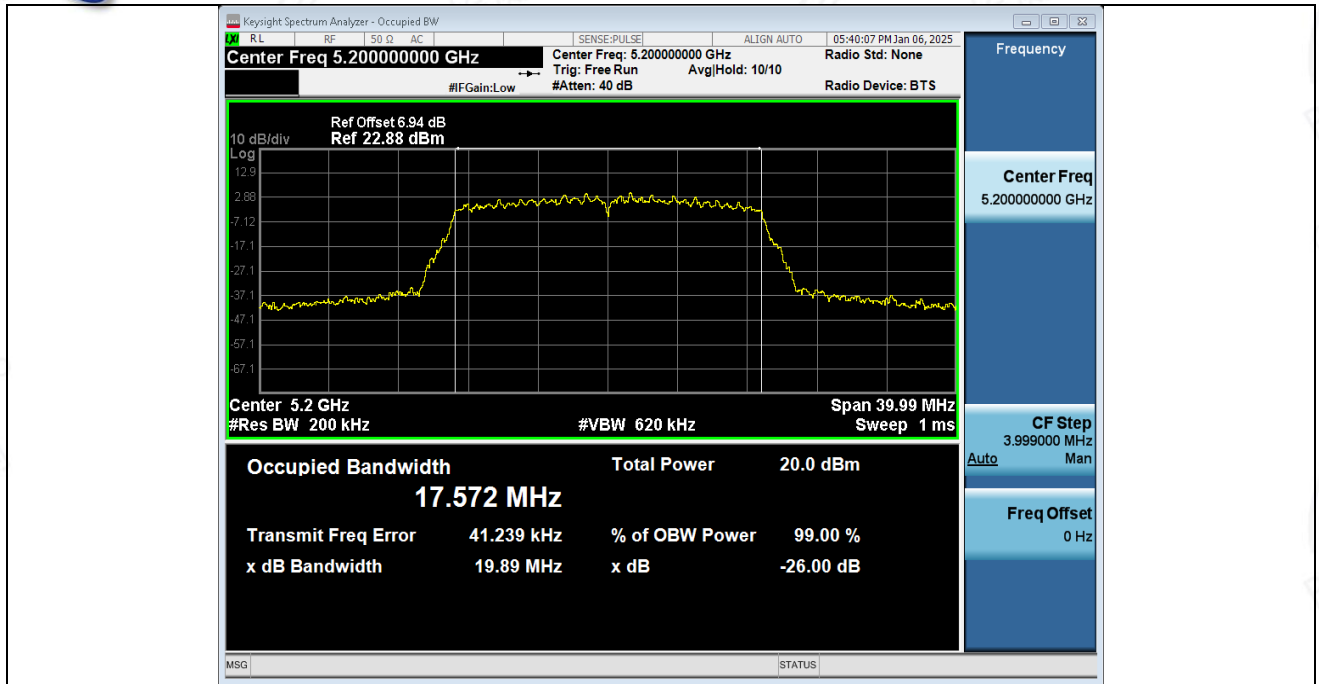


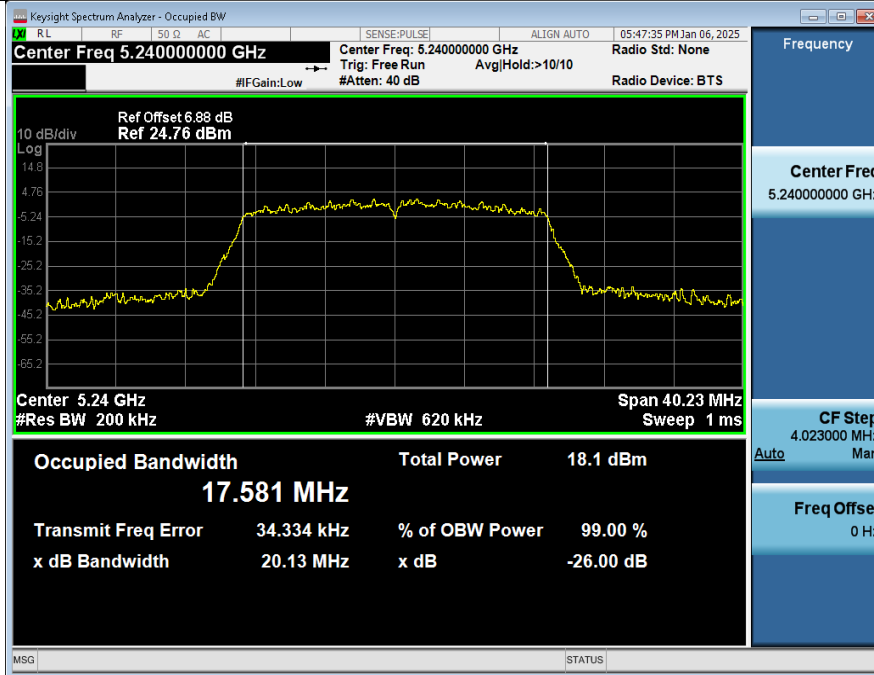
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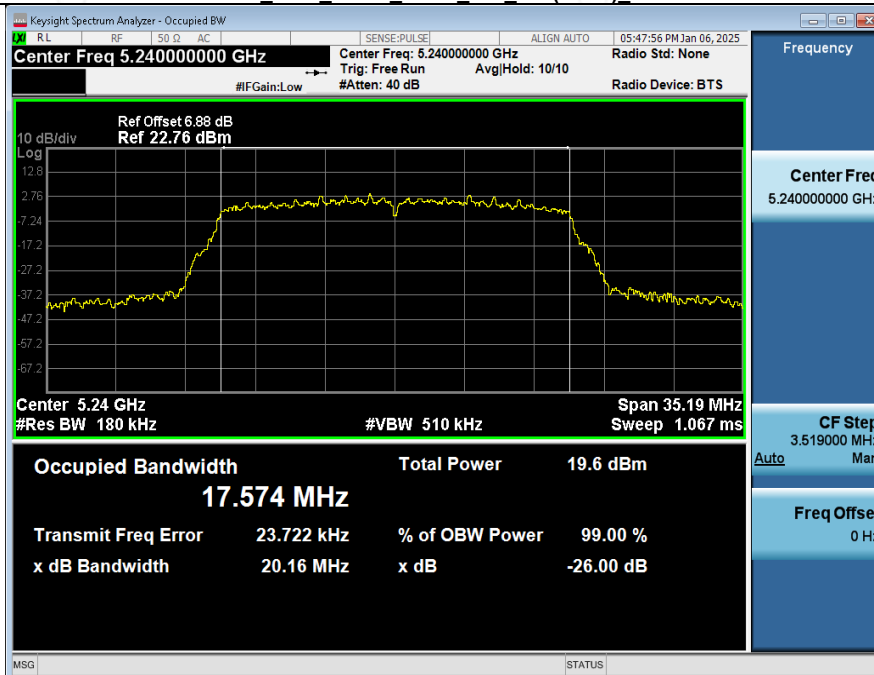
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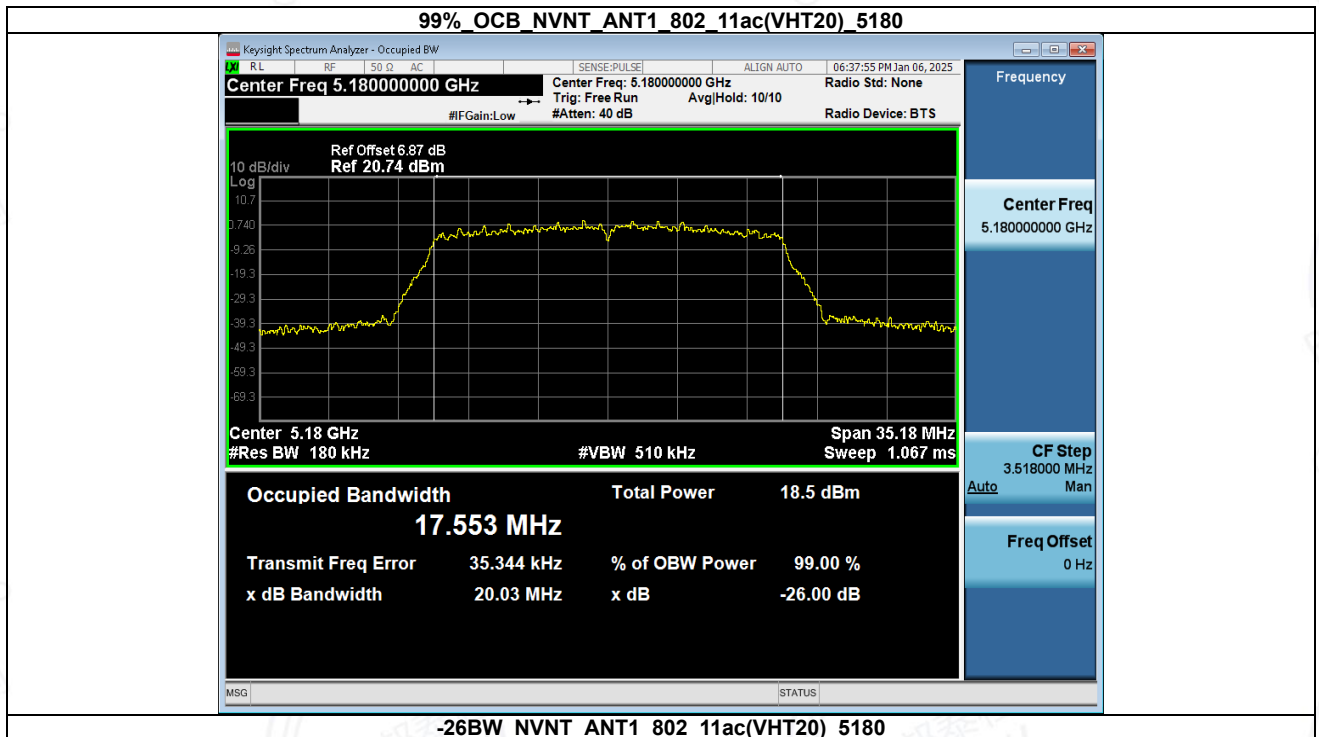
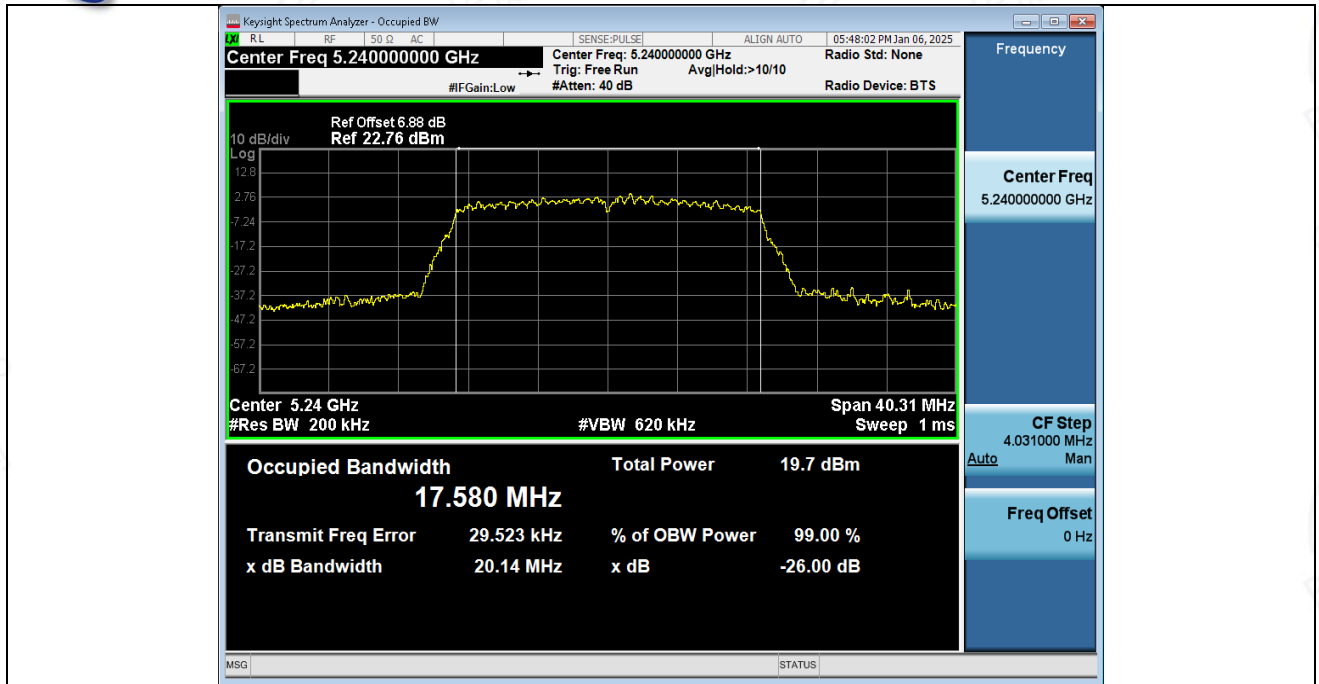


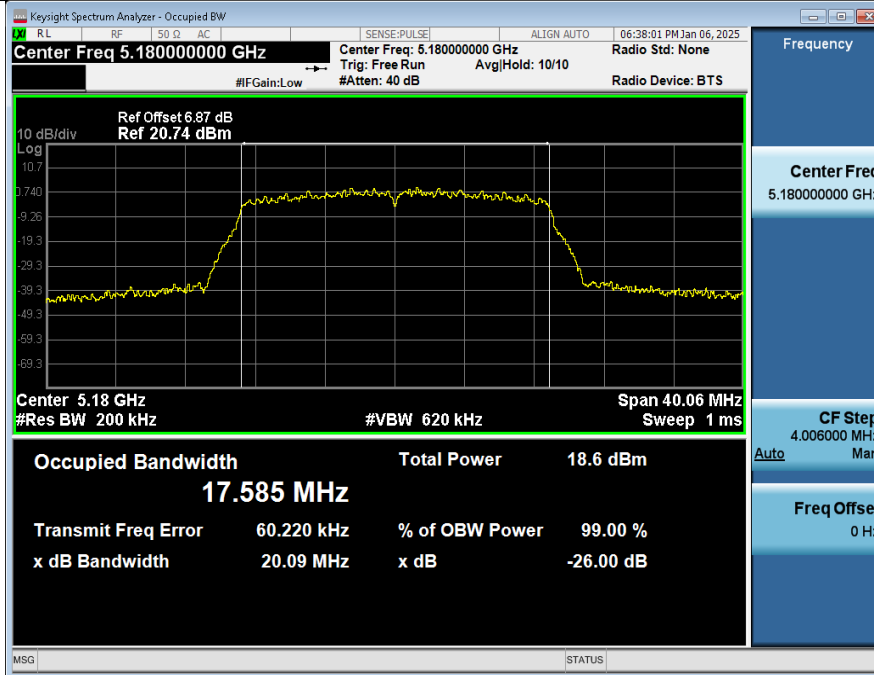
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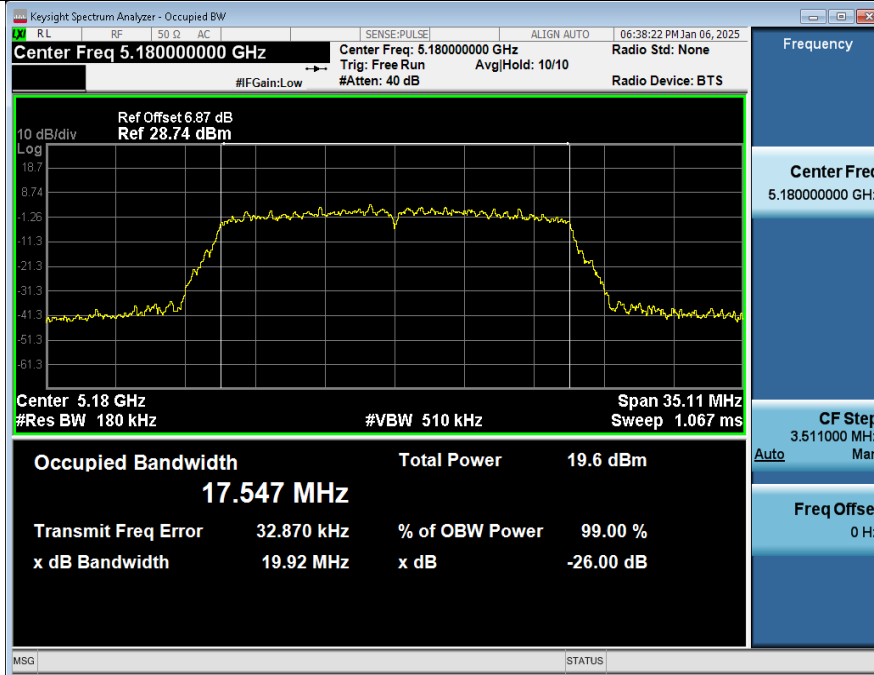
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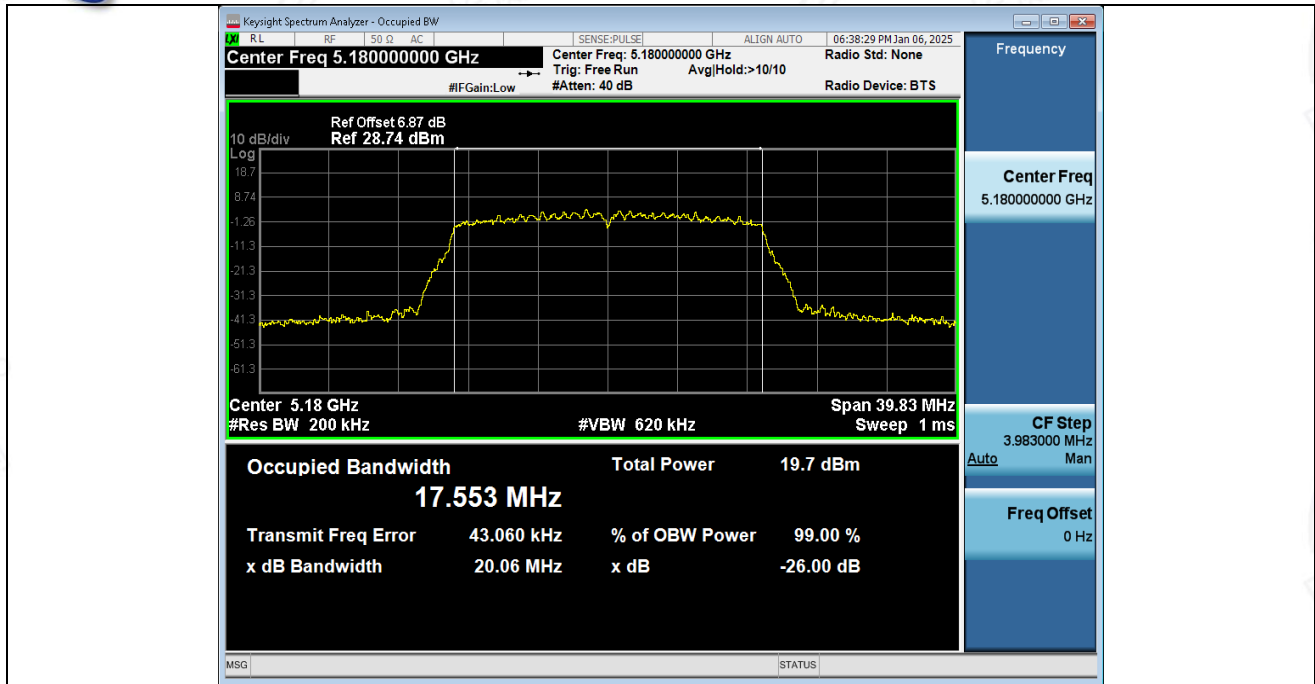


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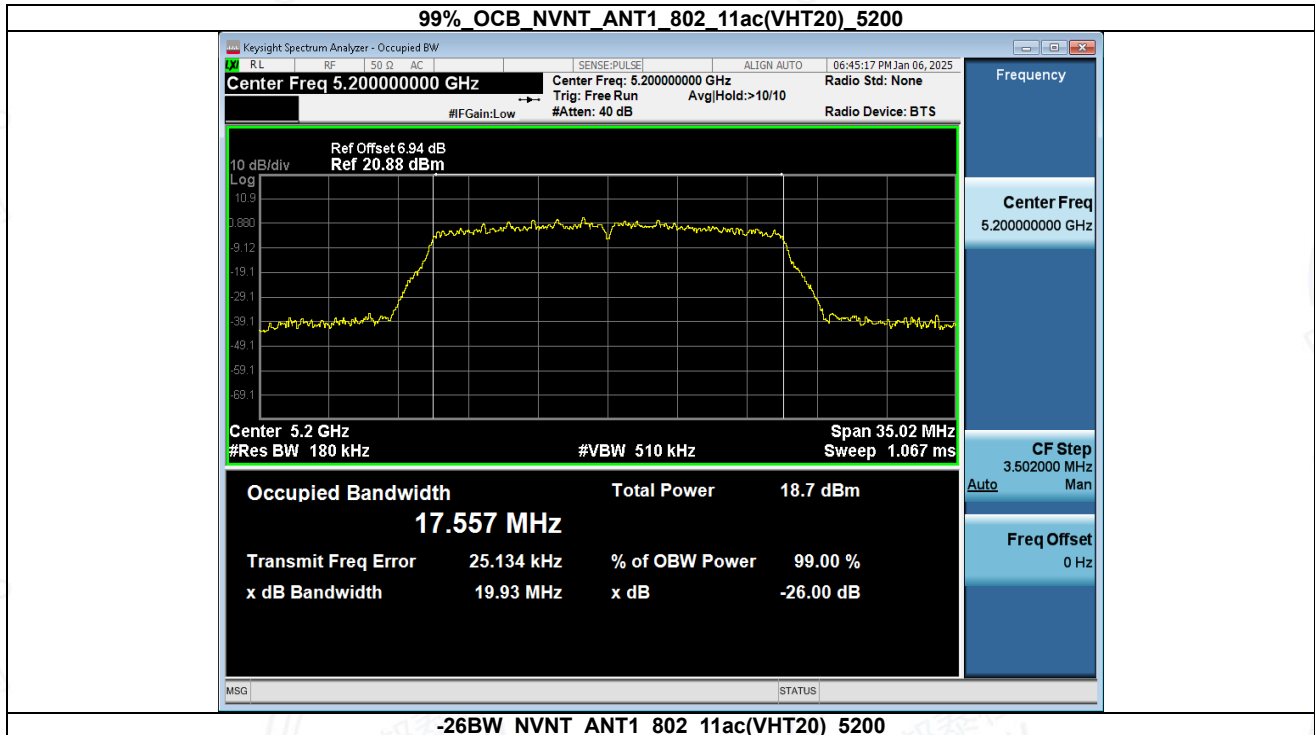


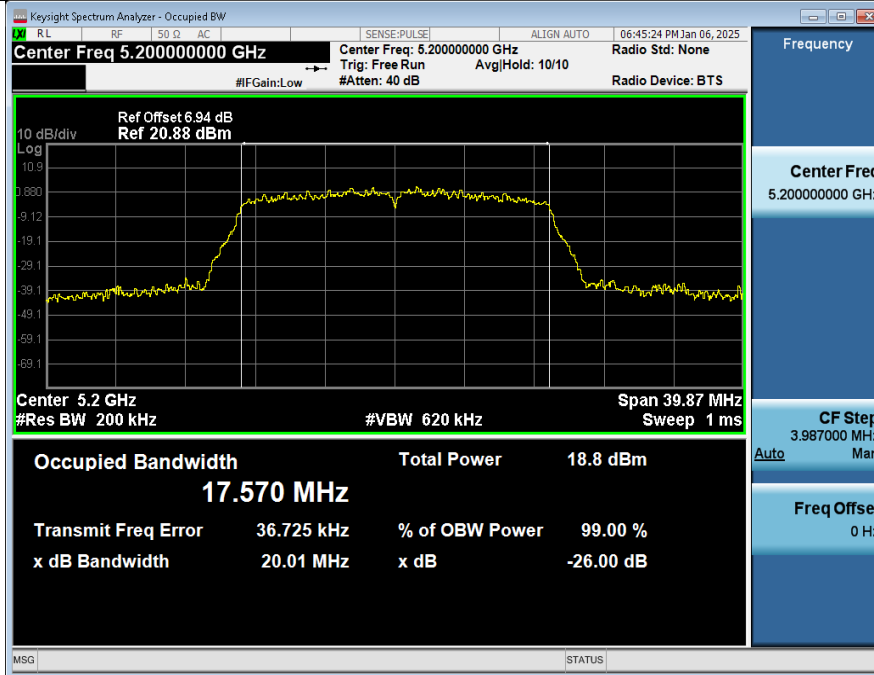
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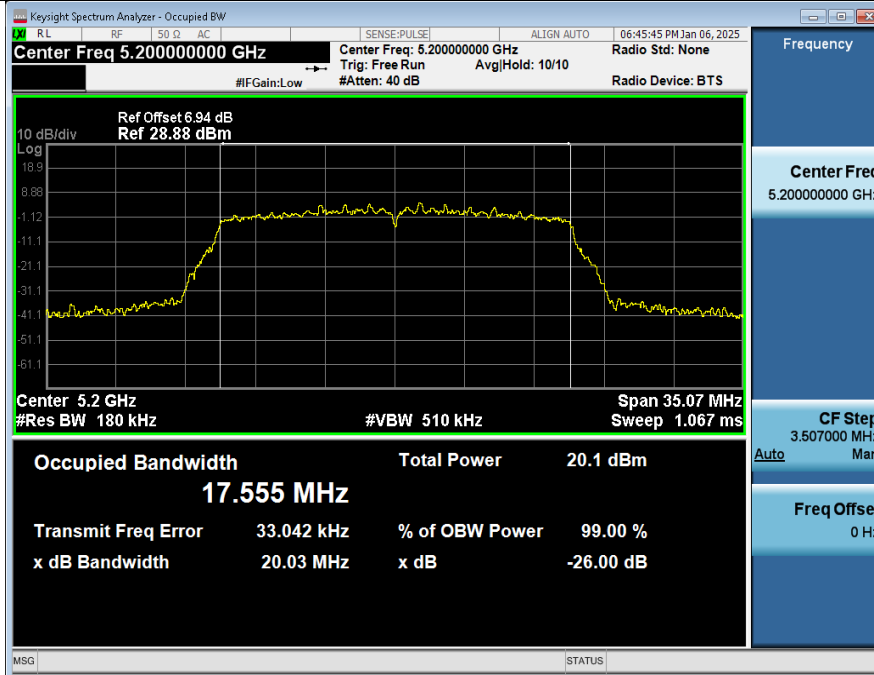


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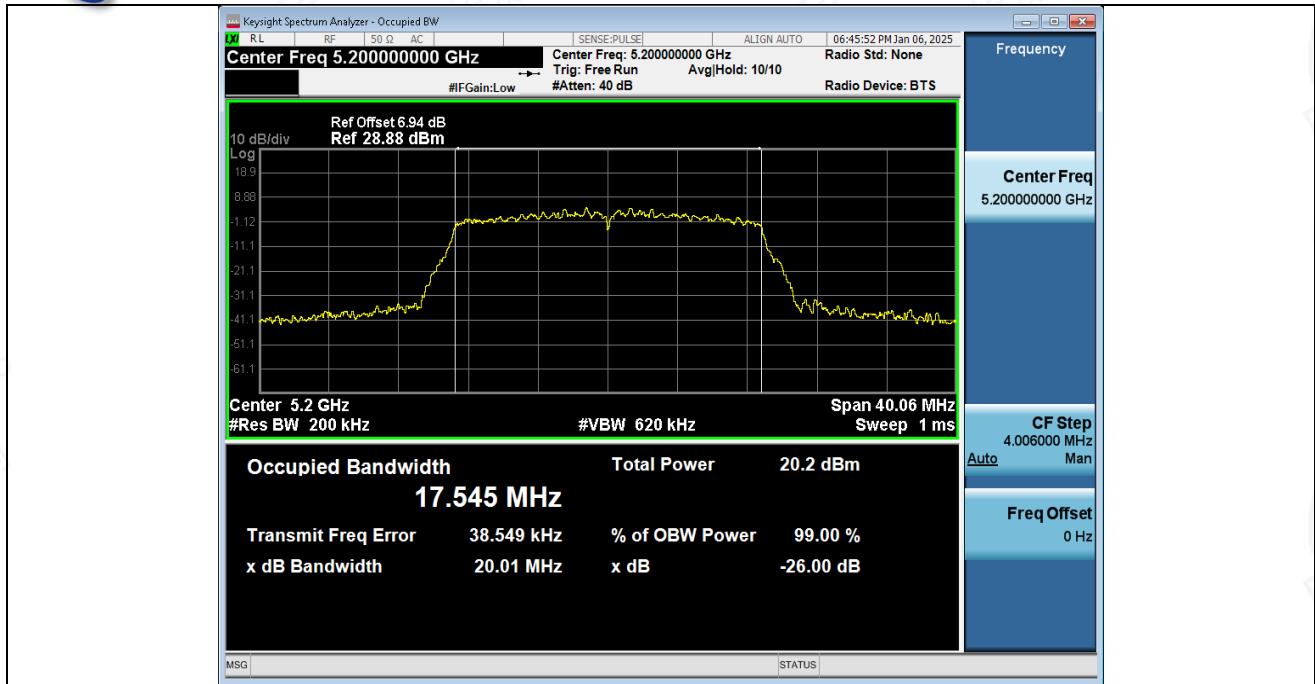


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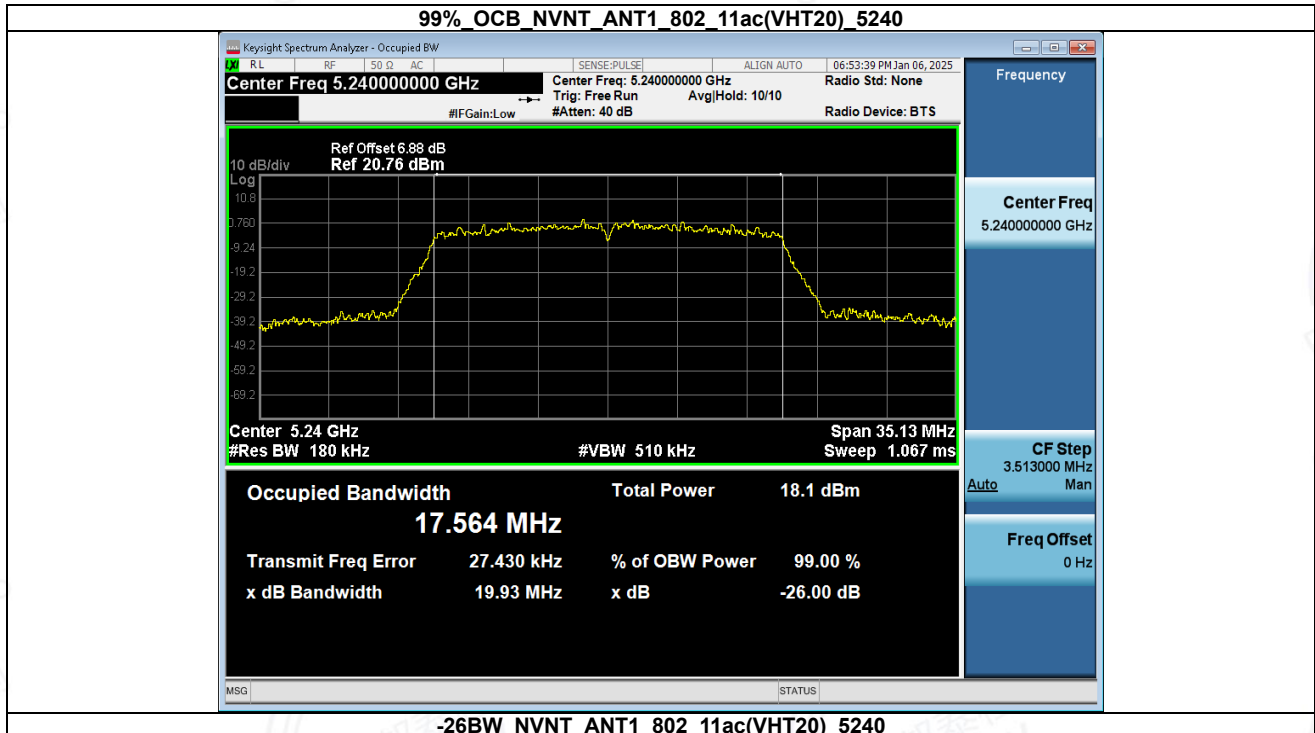


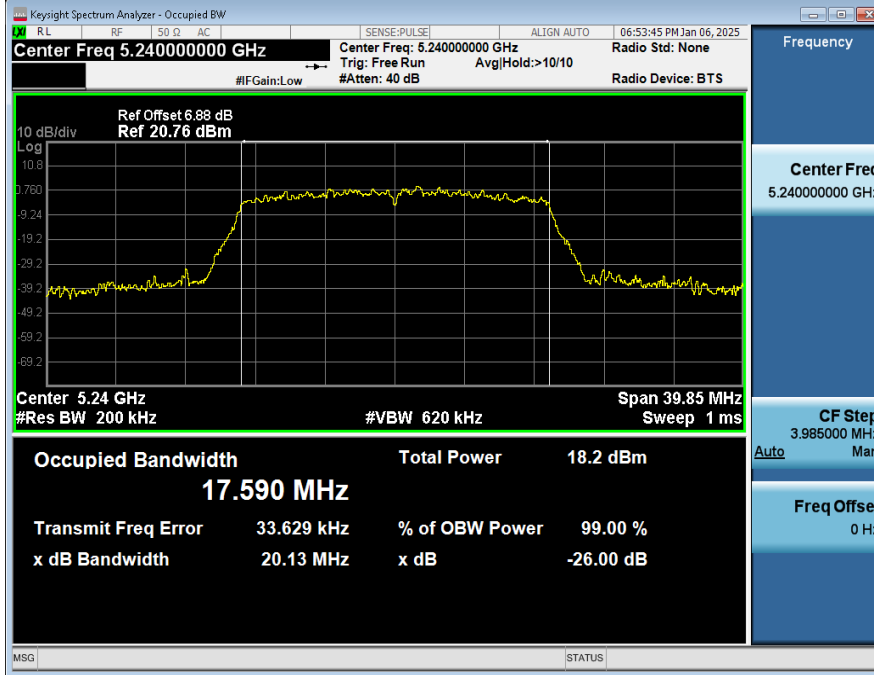
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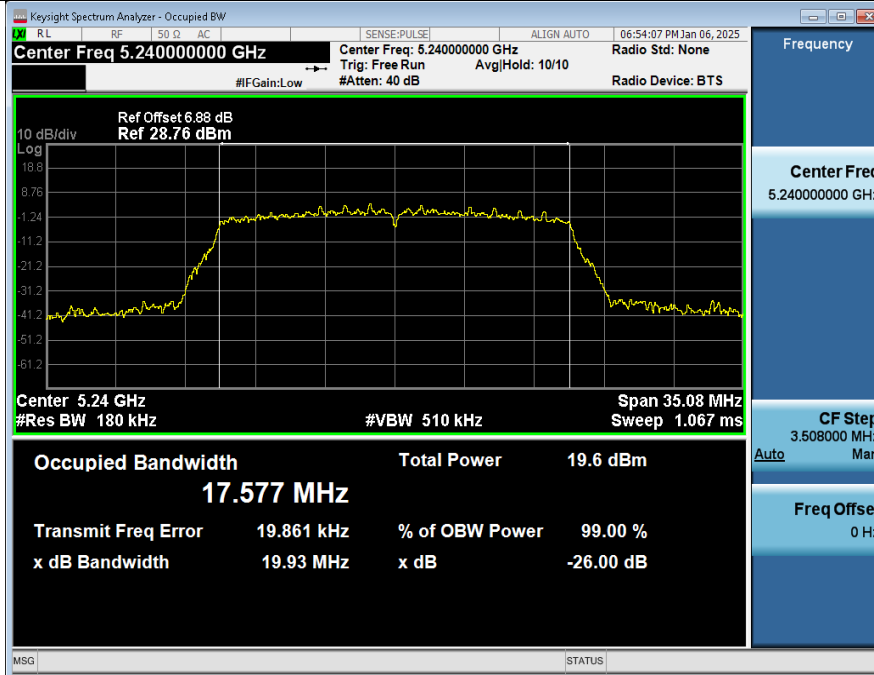


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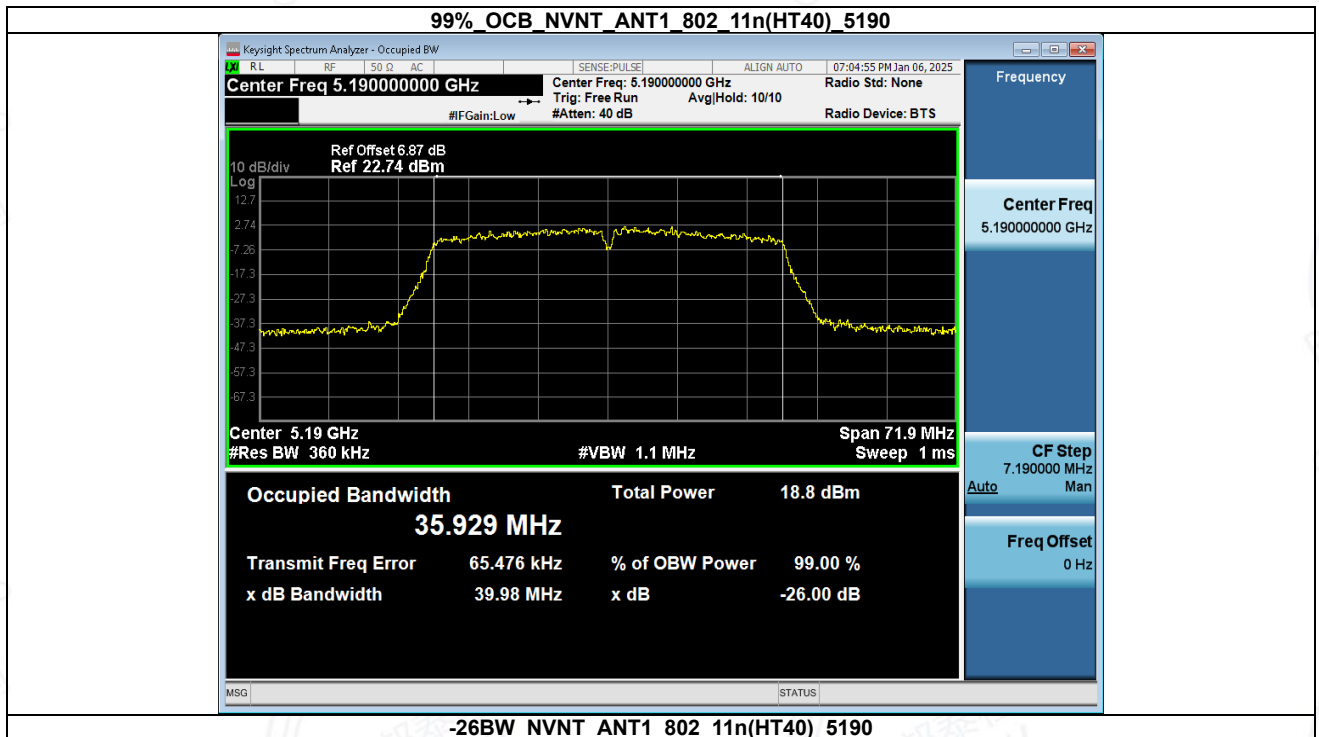


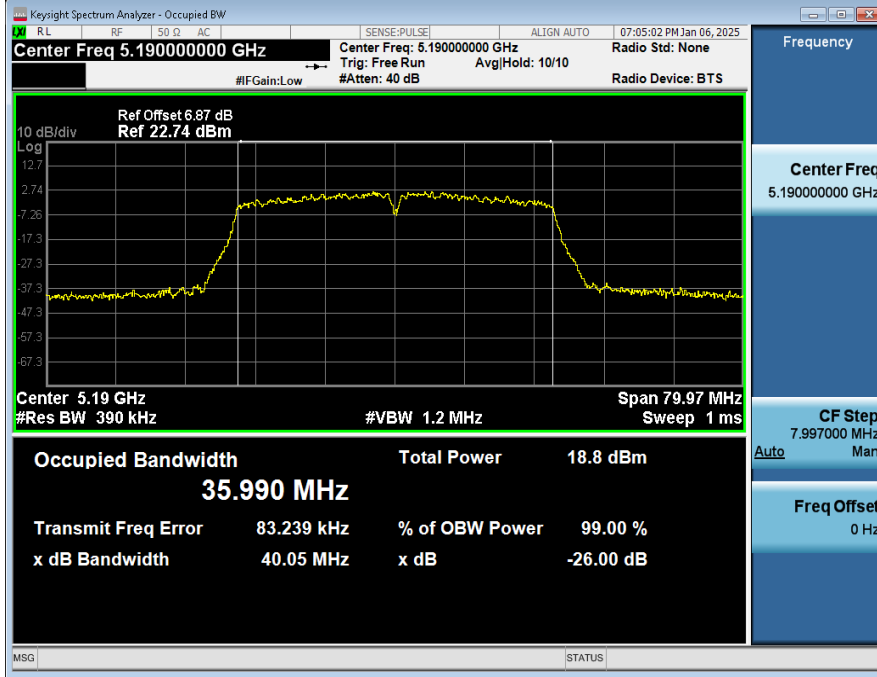
99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5240



-26BW_NVNT_ANT2_802_11ac(VHT20)_5240





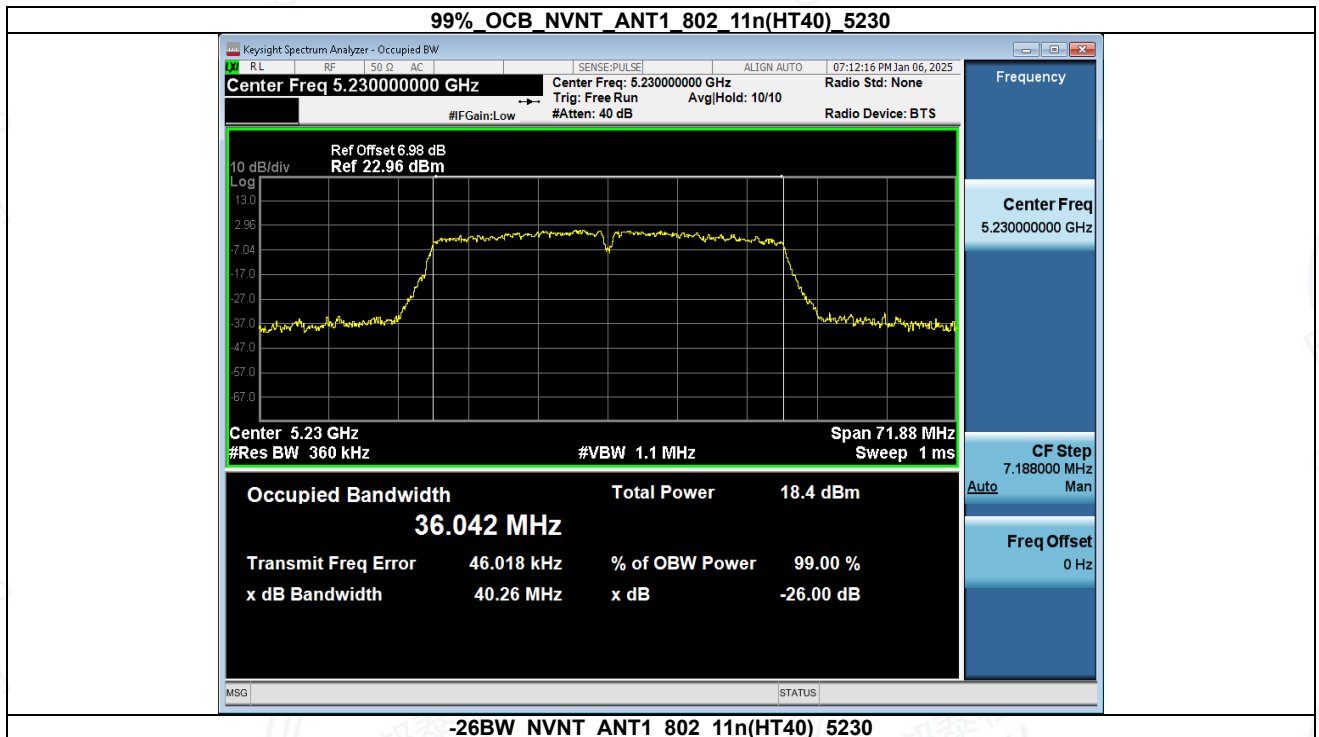
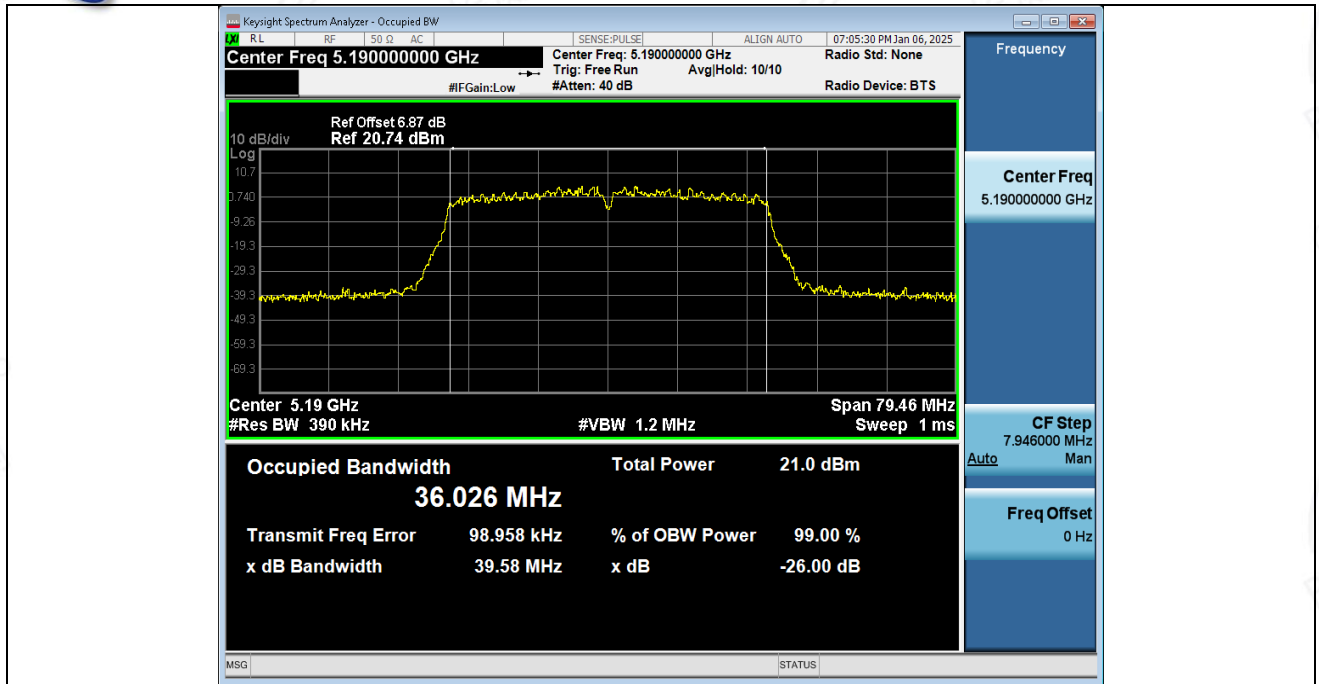


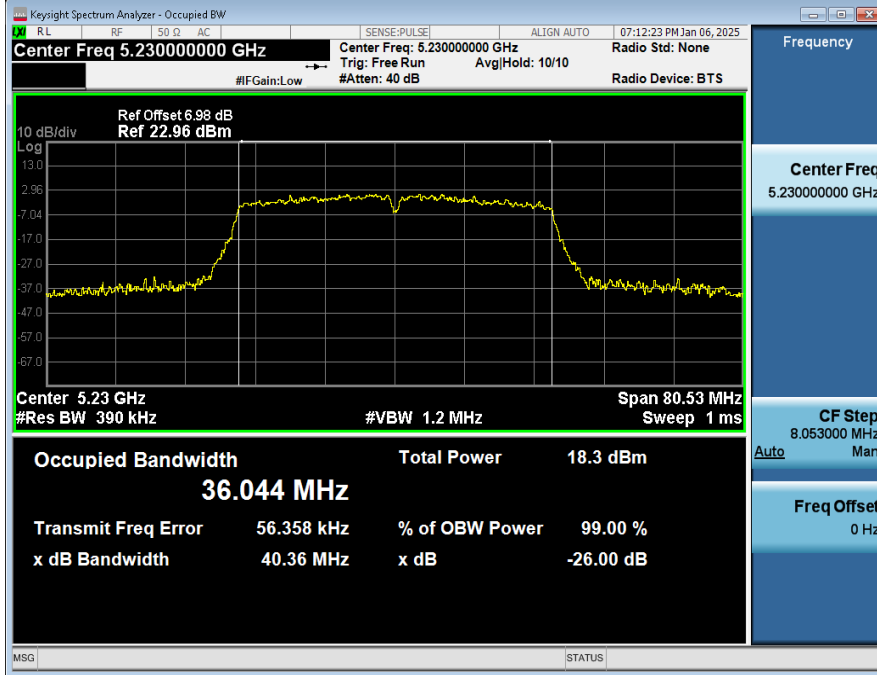
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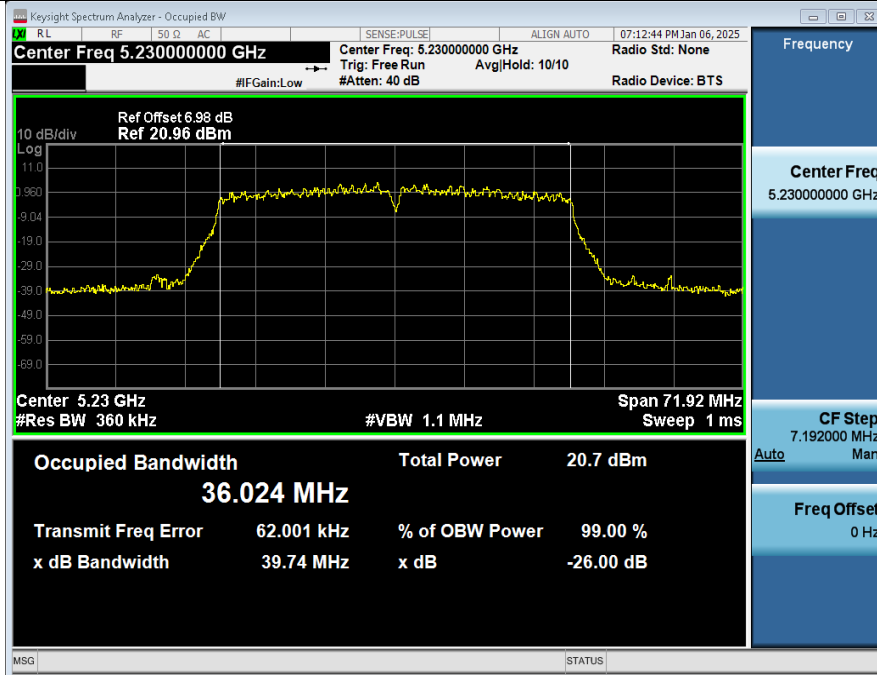
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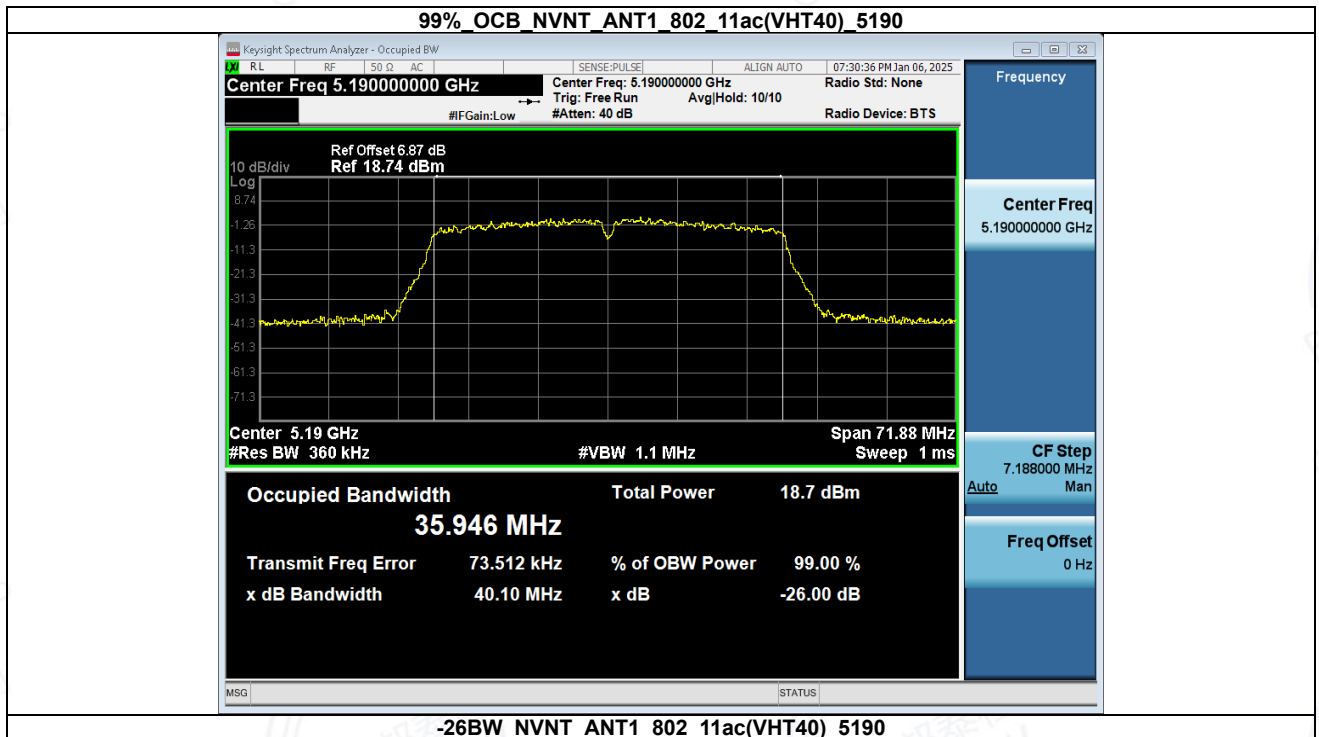
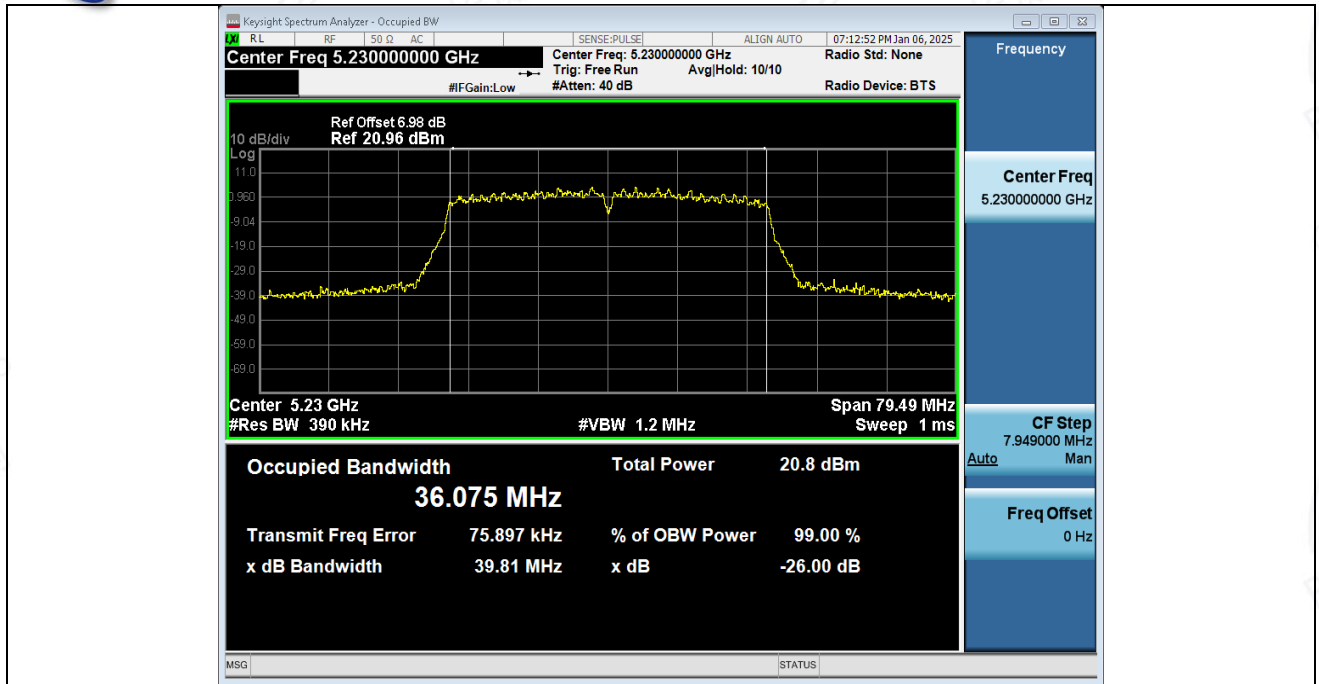


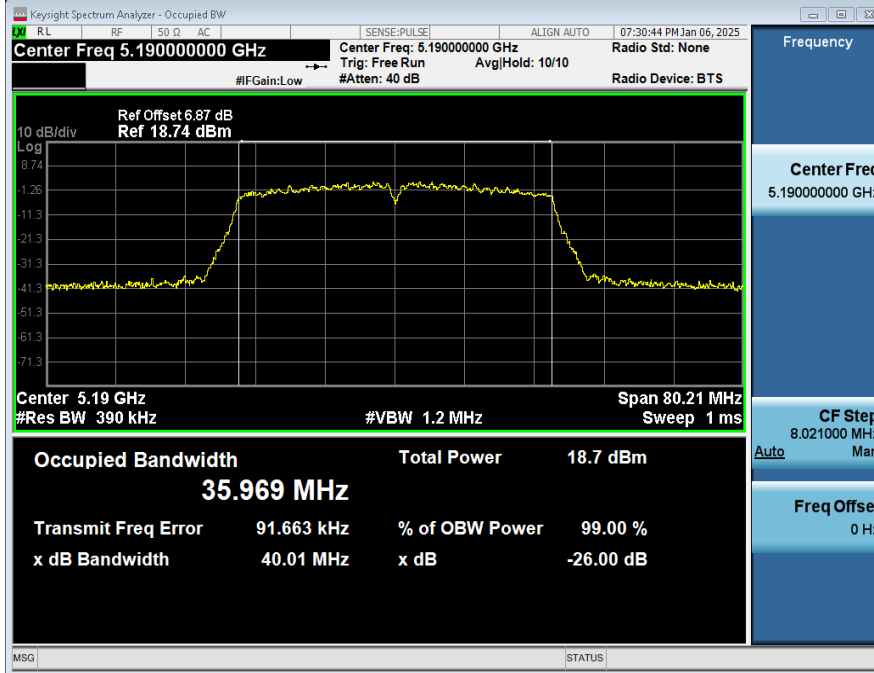
99%_OCB_NVNT_ANT2_802_11n(HT40)_5230



-26BW_NVNT_ANT2_802_11n(HT40)_5230





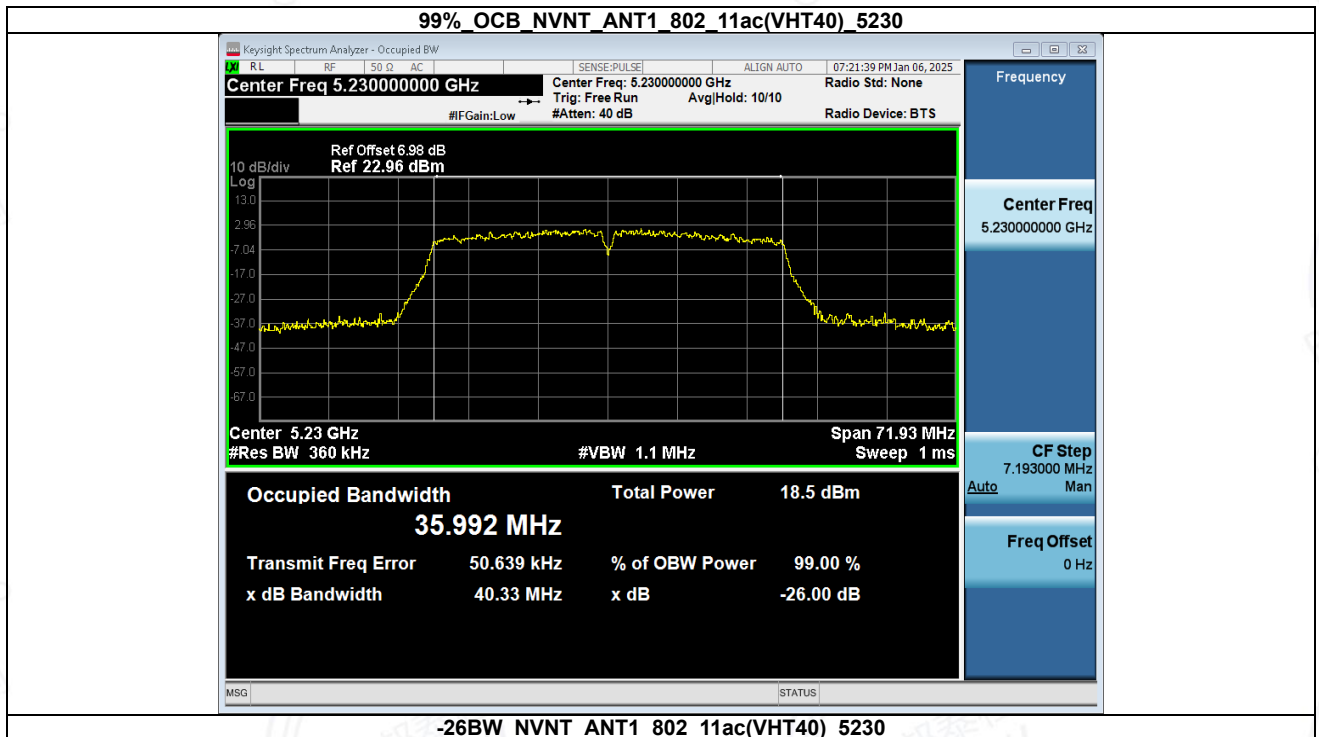
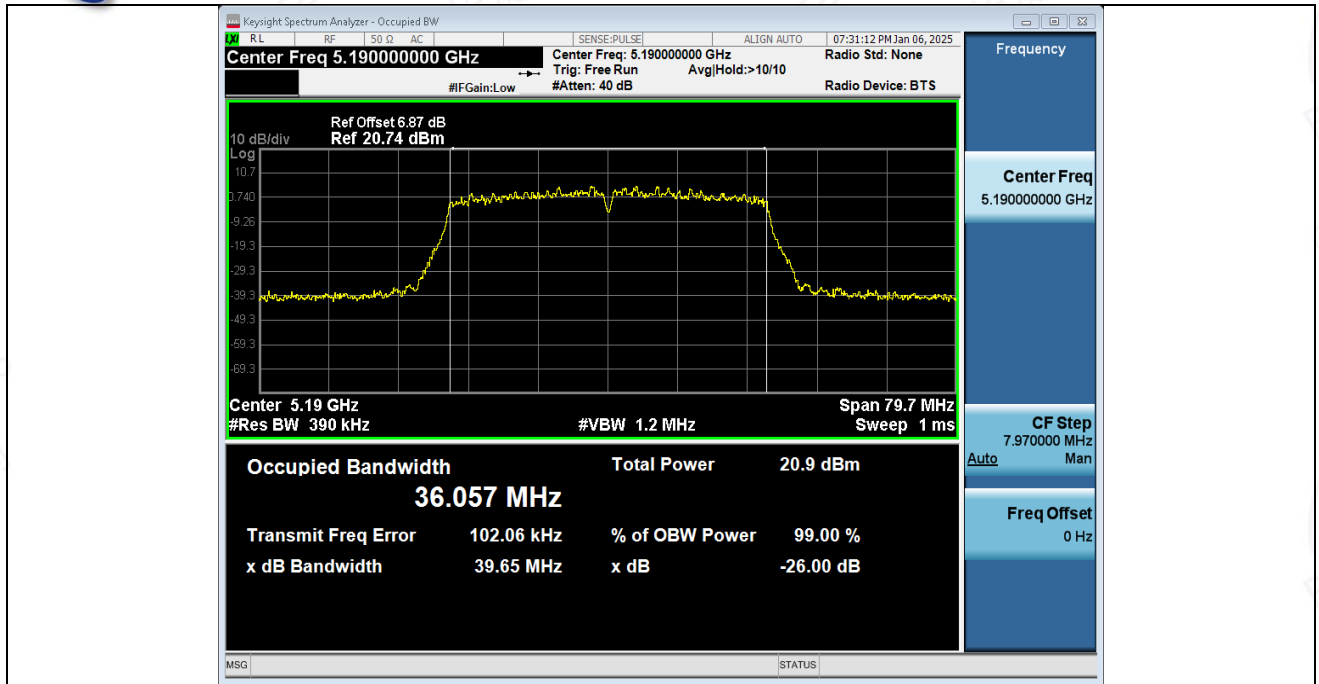


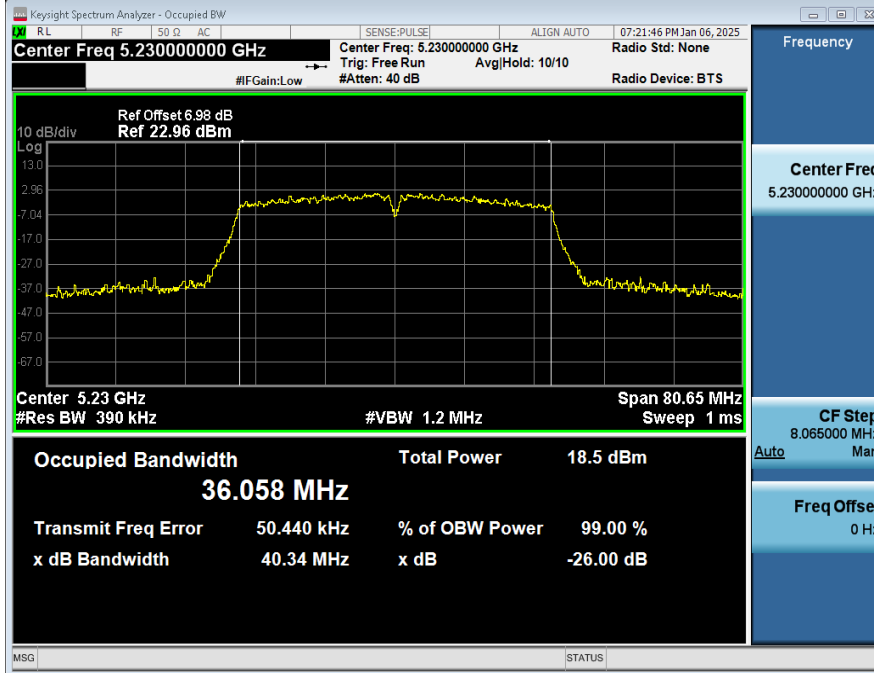
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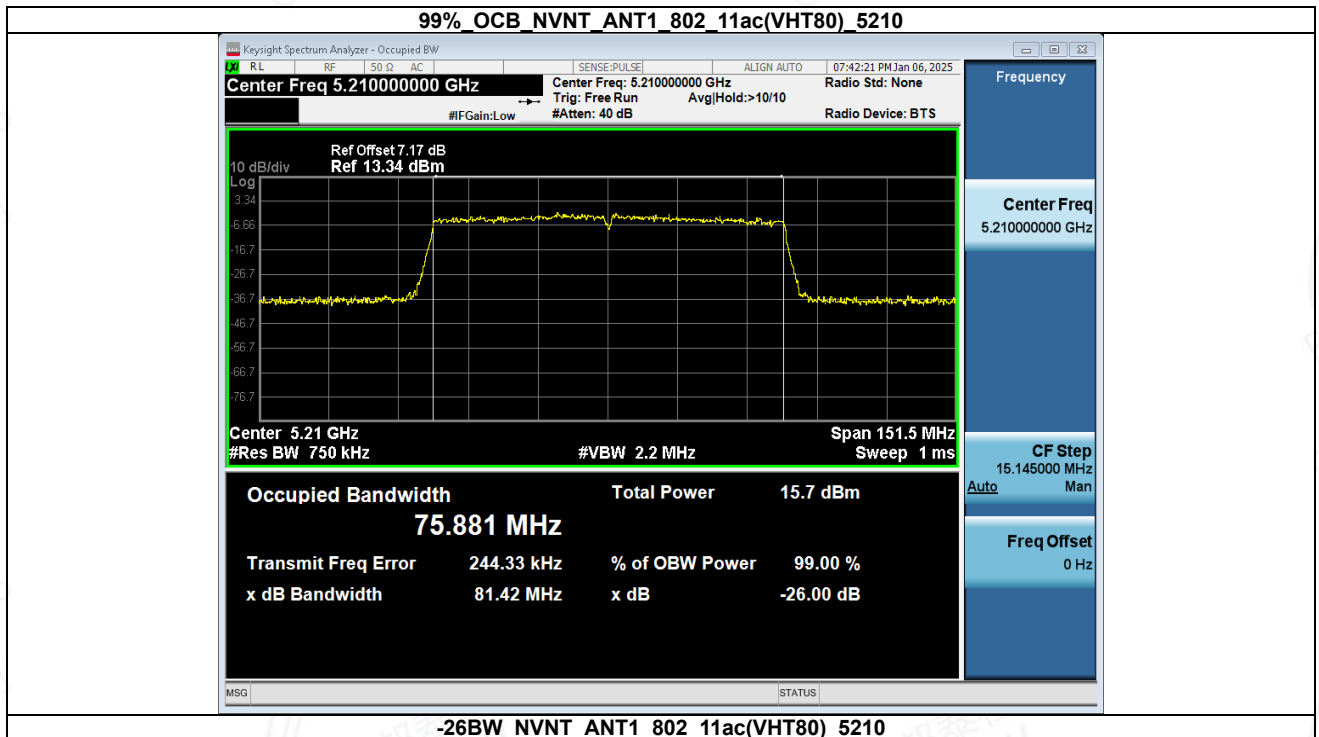
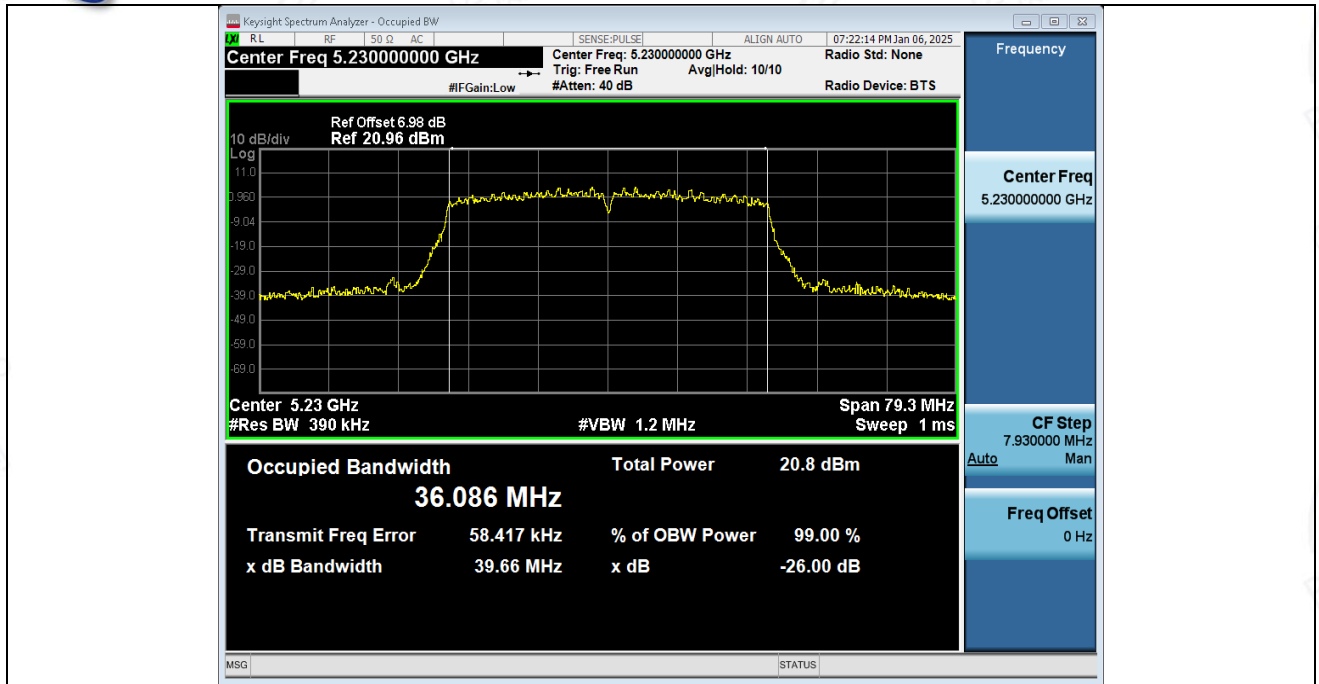


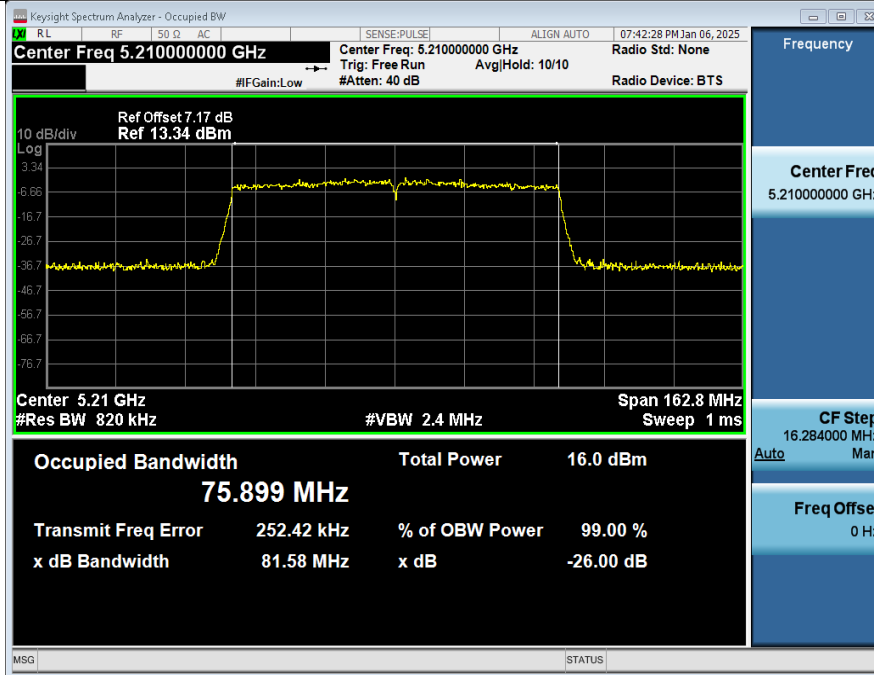
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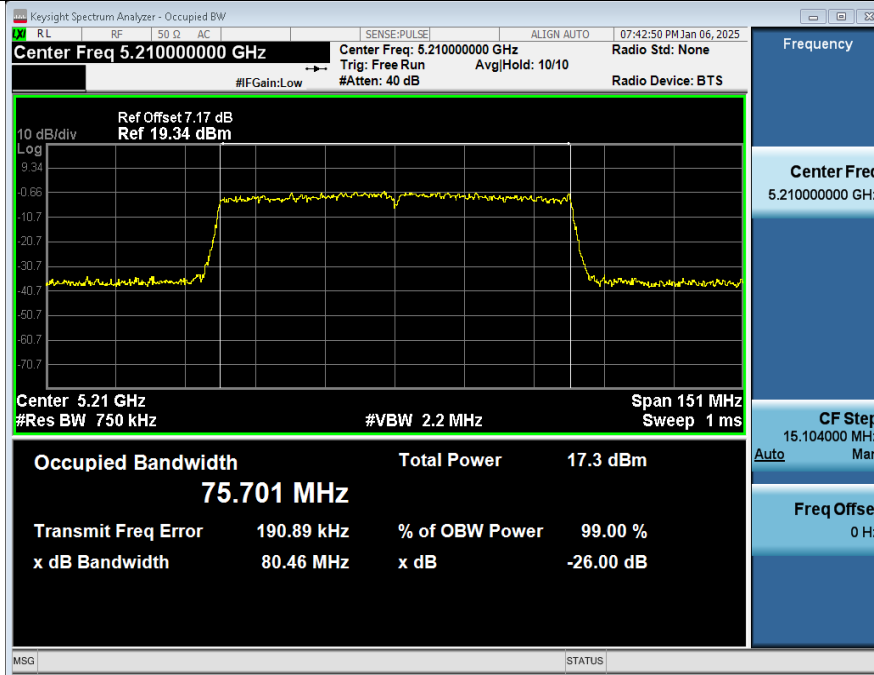
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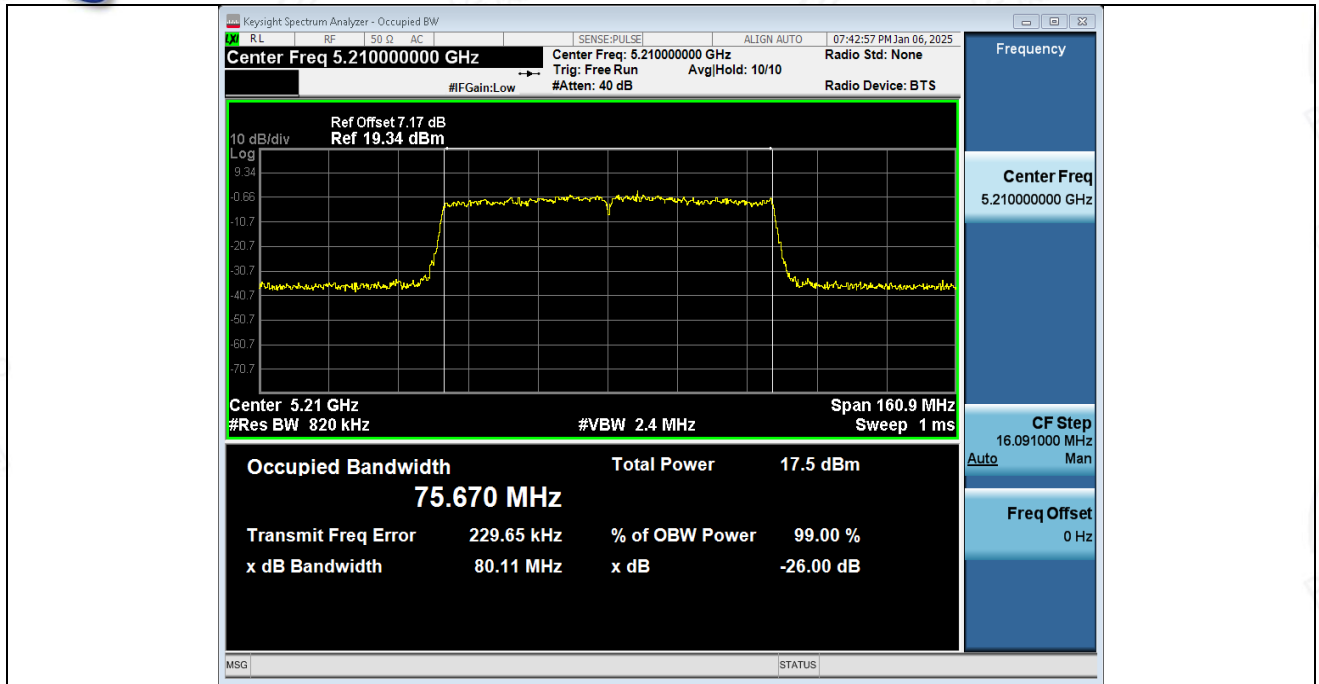


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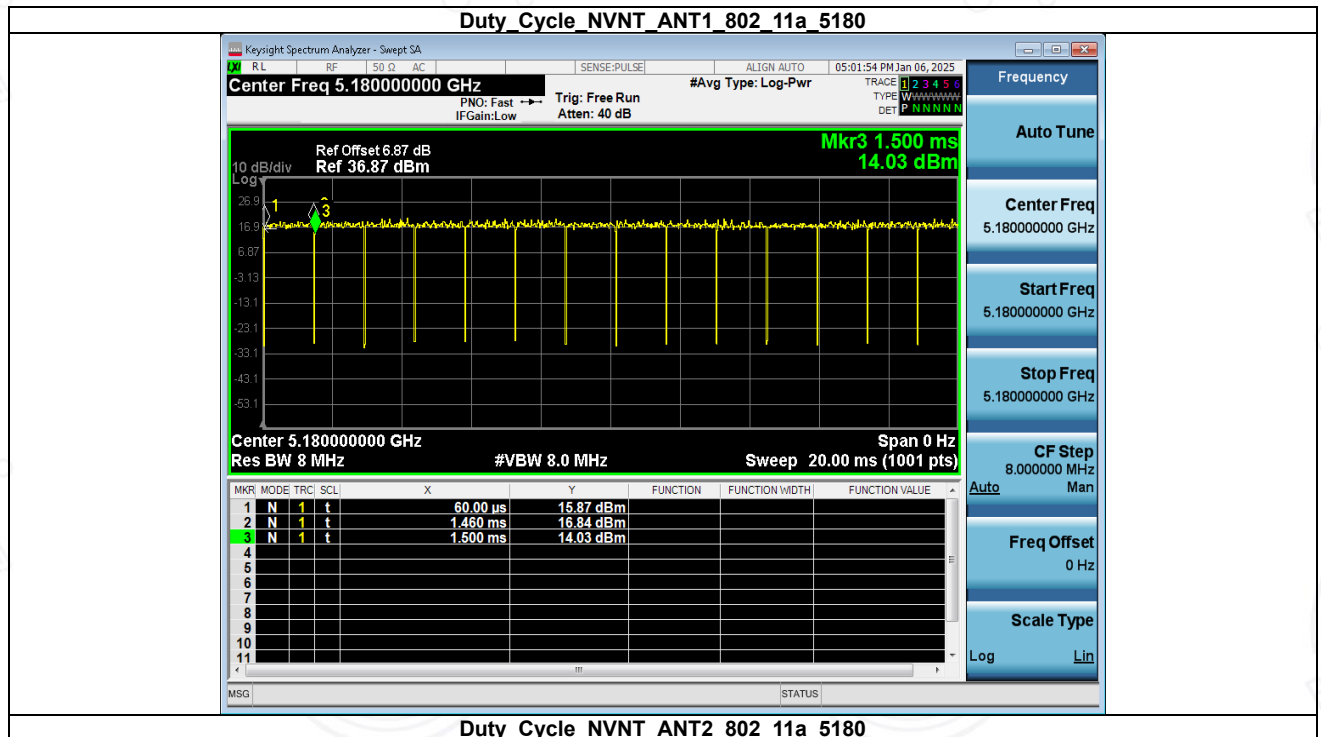
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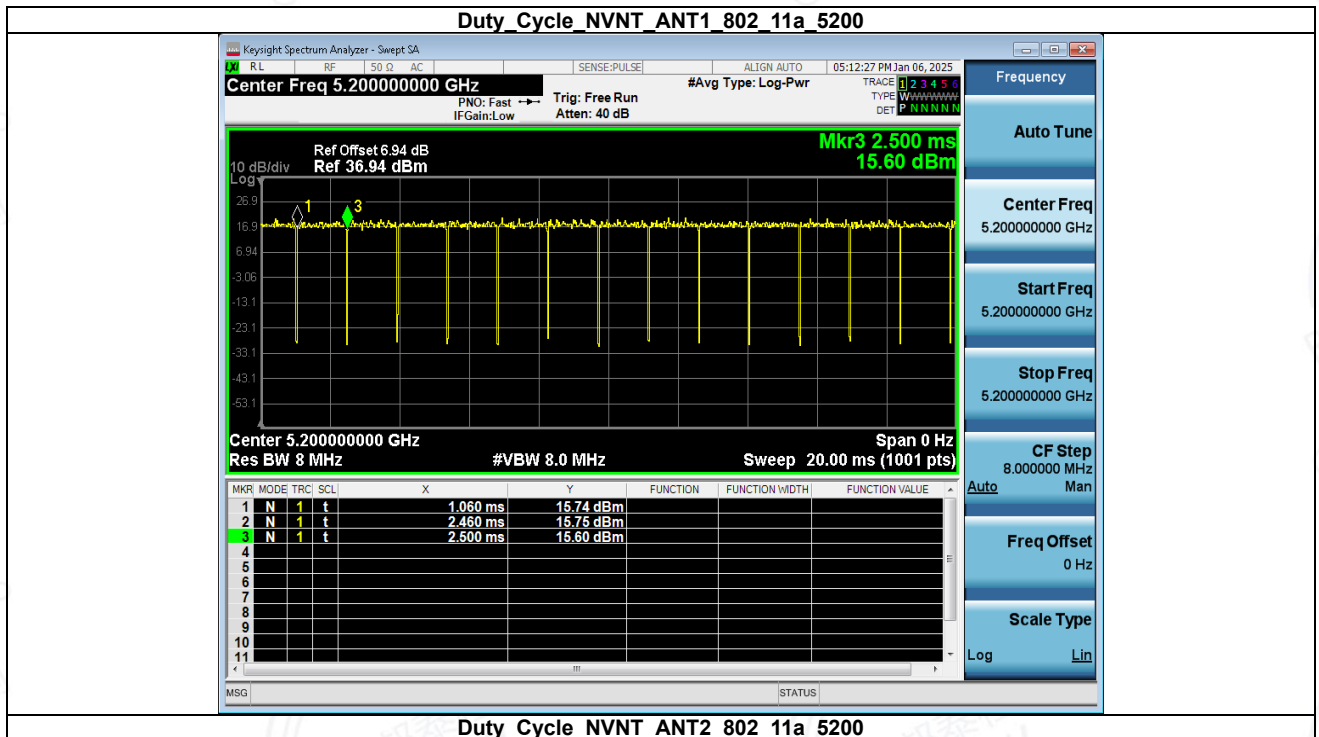
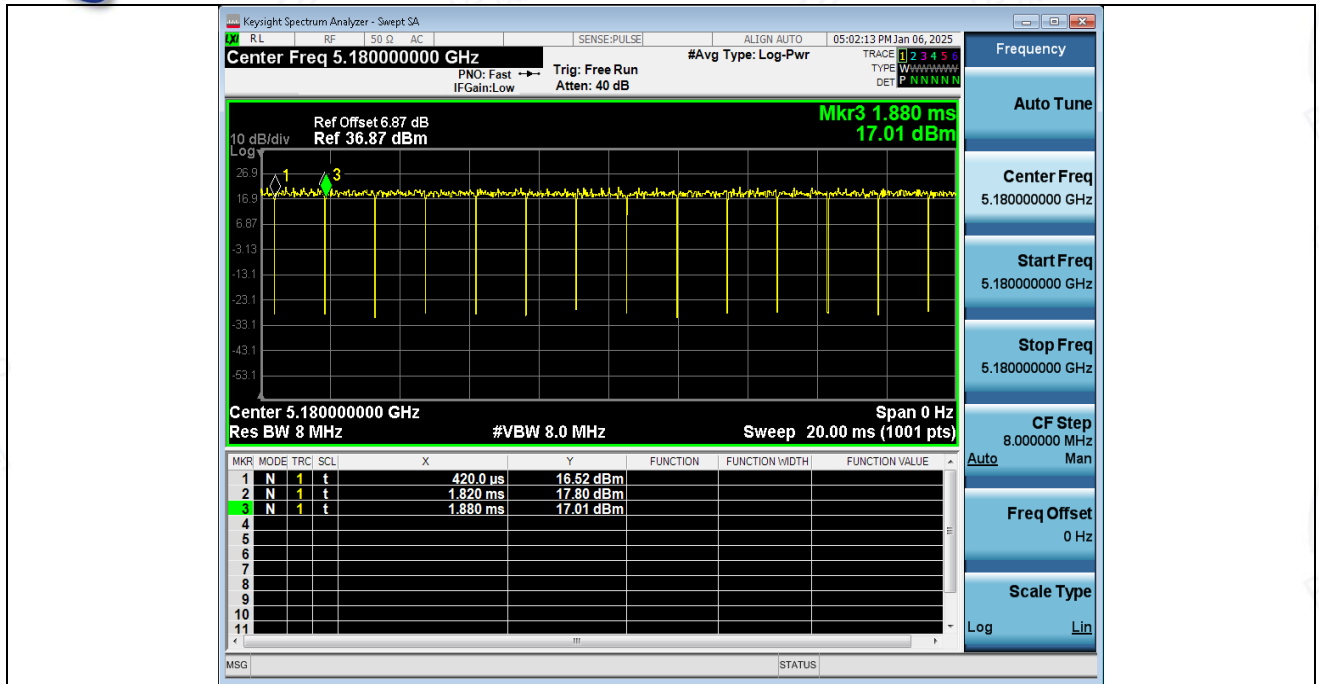


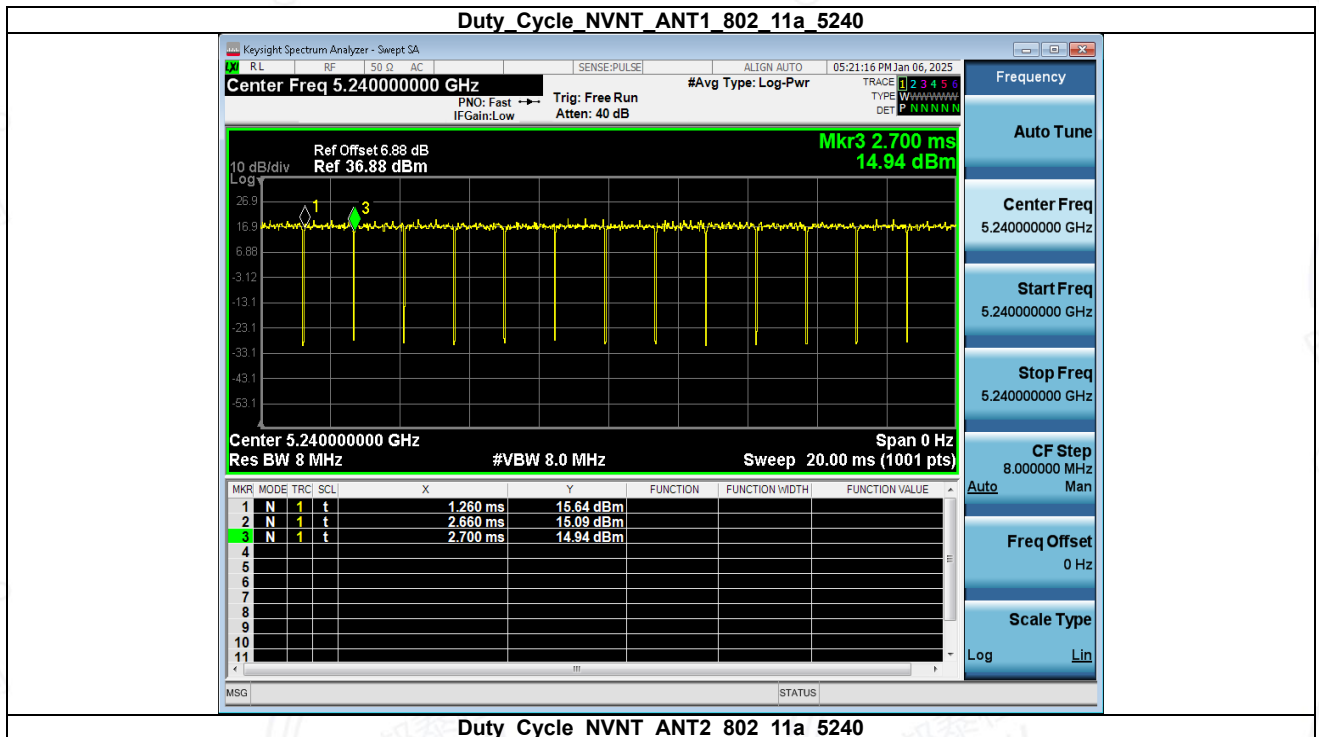
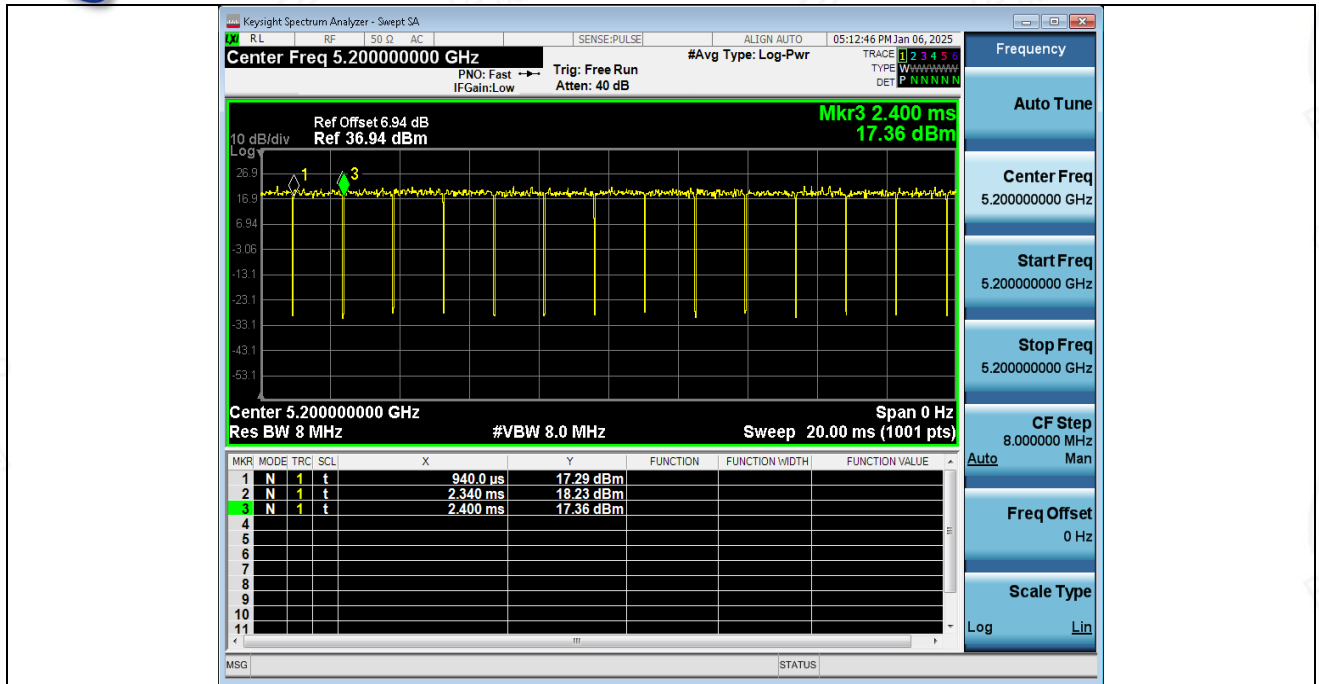


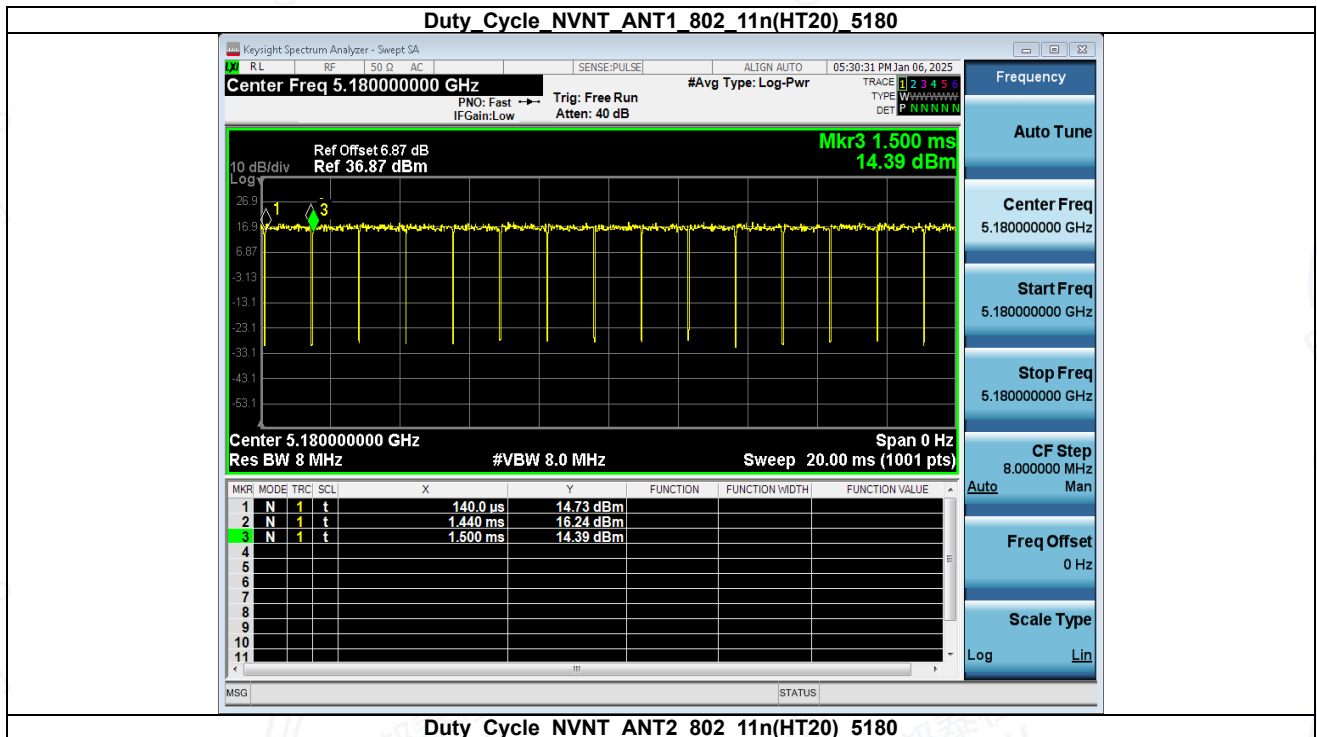
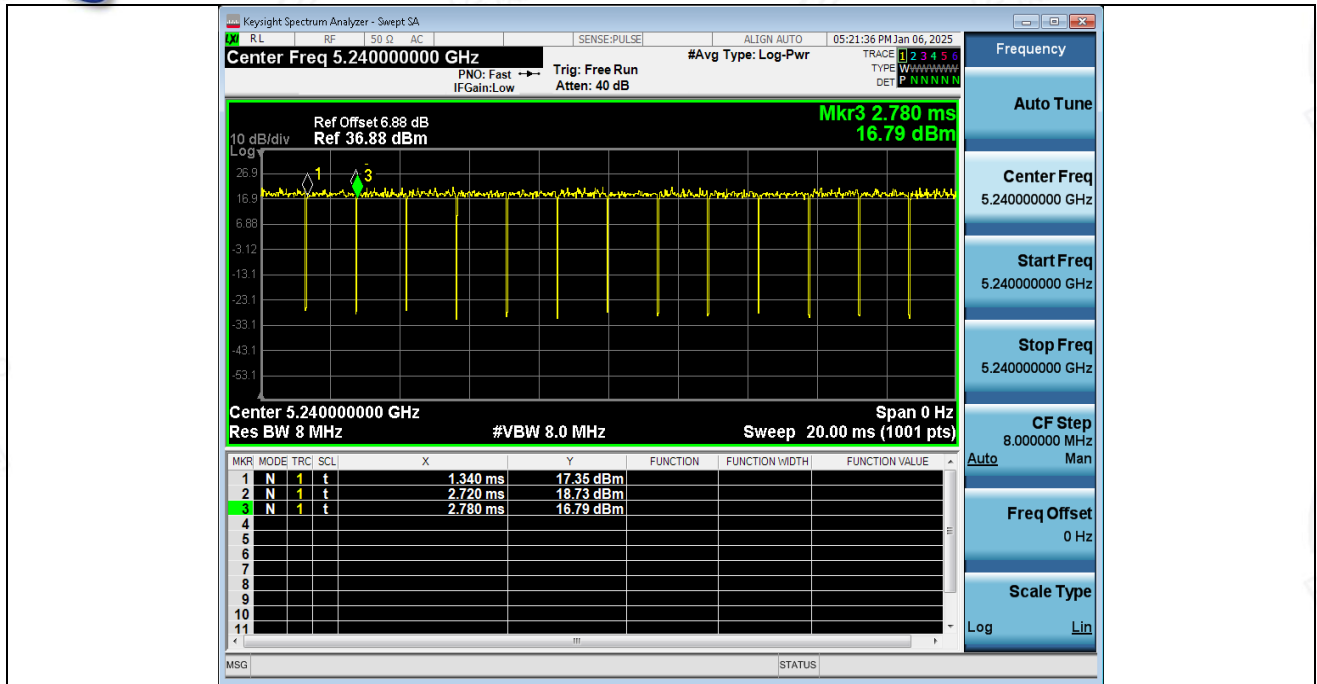
2. Duty Cycle

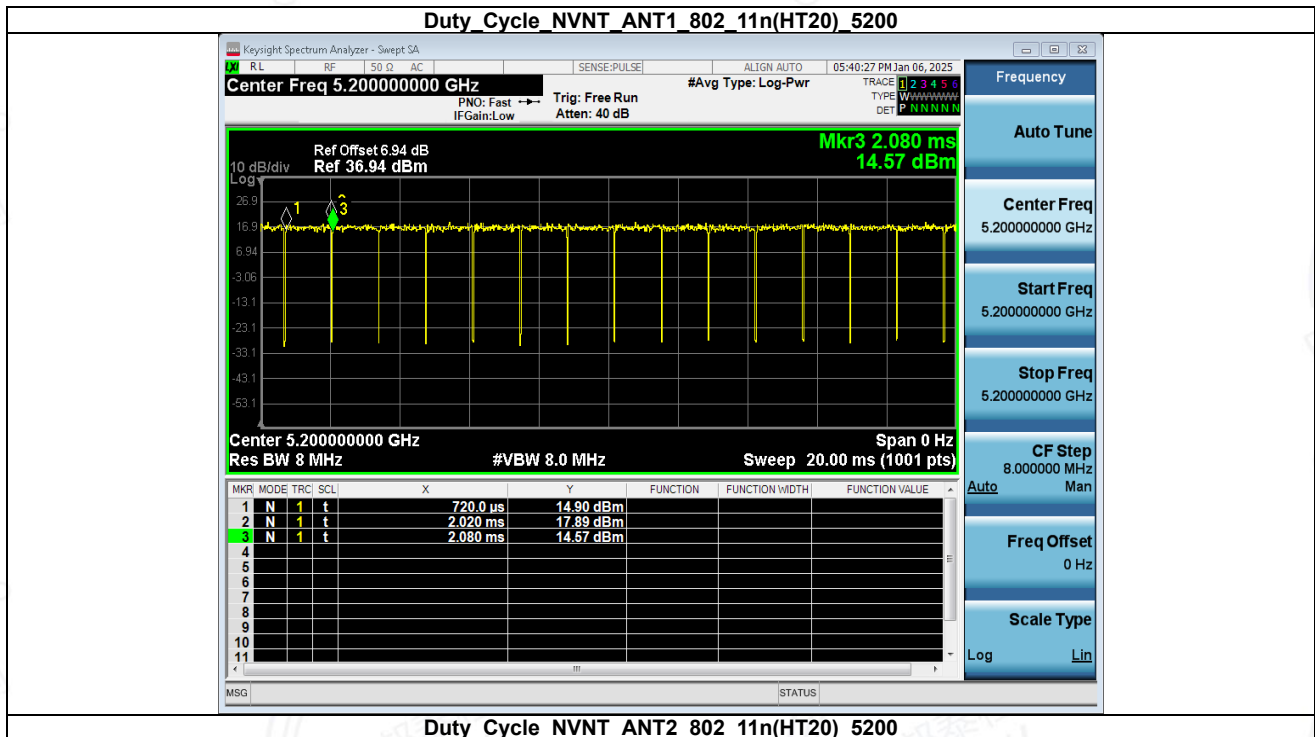
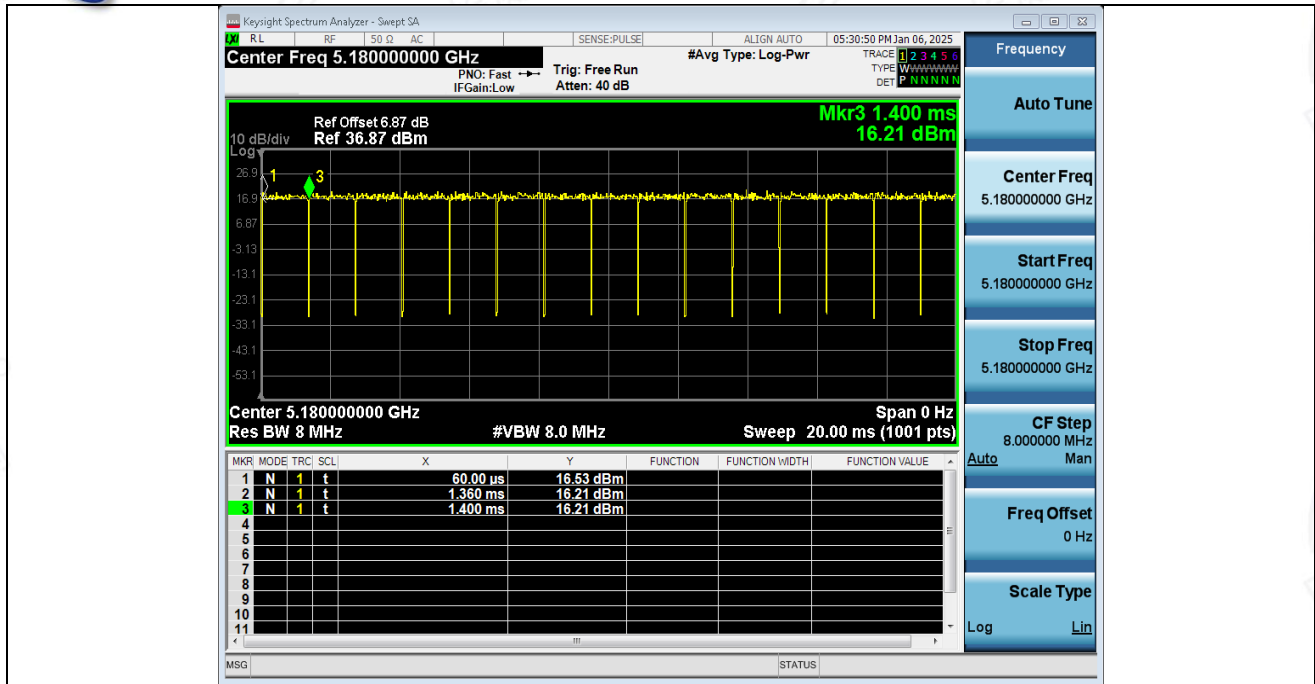
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	97.22	0.12
NVNT	ANT2	802.11a	5180.00	95.89	0.18
NVNT	ANT1	802.11a	5200.00	97.22	0.12
NVNT	ANT2	802.11a	5200.00	95.89	0.18
NVNT	ANT1	802.11a	5240.00	97.22	0.12
NVNT	ANT2	802.11a	5240.00	95.83	0.18
NVNT	ANT1	802.11n(HT20)	5180.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5180.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5200.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5200.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5240.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5240.00	97.01	0.13
NVNT	ANT1	802.11ac(VHT20)	5180.00	95.59	0.20
NVNT	ANT2	802.11ac(VHT20)	5180.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT20)	5200.00	95.59	0.20
NVNT	ANT2	802.11ac(VHT20)	5200.00	97.01	0.13
NVNT	ANT1	802.11ac(VHT20)	5240.00	97.01	0.13
NVNT	ANT2	802.11ac(VHT20)	5240.00	95.59	0.20
NVNT	ANT1	802.11n(HT40)	5190.00	91.43	0.39
NVNT	ANT2	802.11n(HT40)	5190.00	91.43	0.39
NVNT	ANT1	802.11n(HT40)	5230.00	91.43	0.39
NVNT	ANT2	802.11n(HT40)	5230.00	94.29	0.26
NVNT	ANT1	802.11ac(VHT40)	5190.00	91.43	0.39
NVNT	ANT2	802.11ac(VHT40)	5190.00	91.43	0.39
NVNT	ANT1	802.11ac(VHT40)	5230.00	94.29	0.26
NVNT	ANT2	802.11ac(VHT40)	5230.00	94.29	0.26
NVNT	ANT1	802.11ac(VHT80)	5210.00	50.00	3.01
NVNT	ANT2	802.11ac(VHT80)	5210.00	50.00	3.01

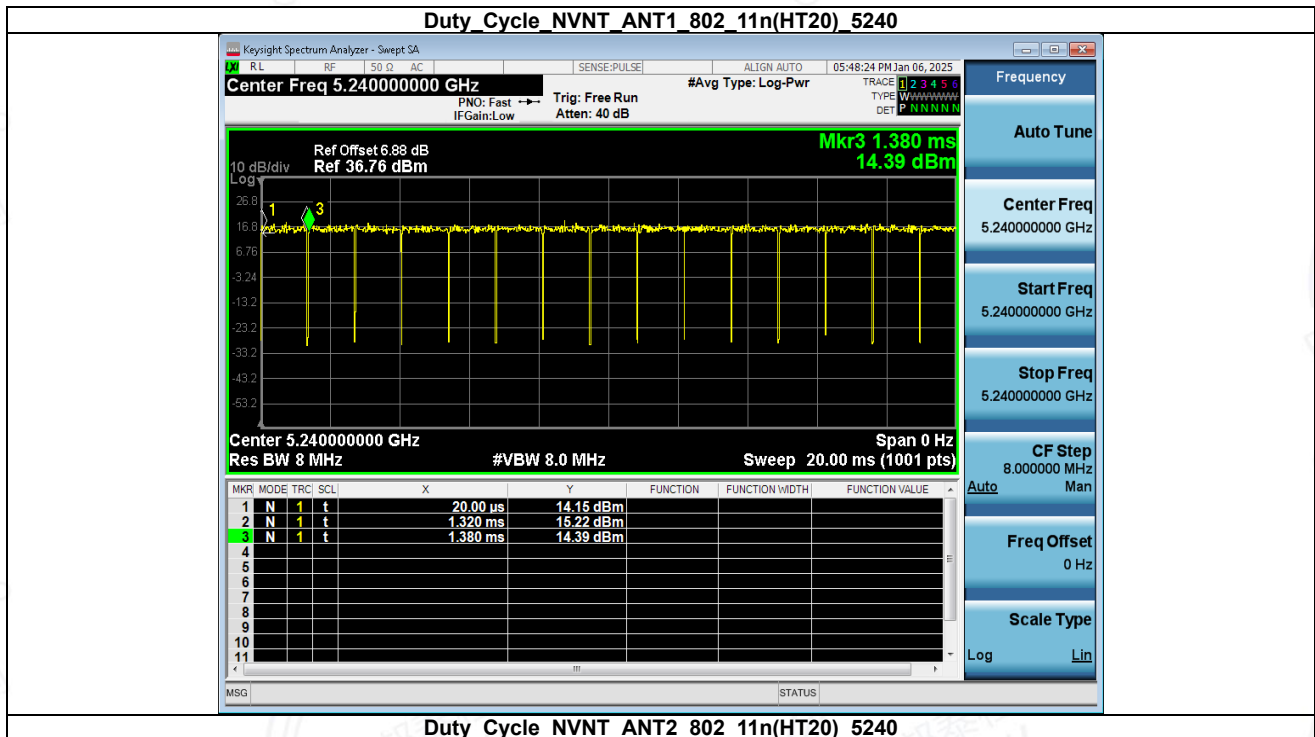
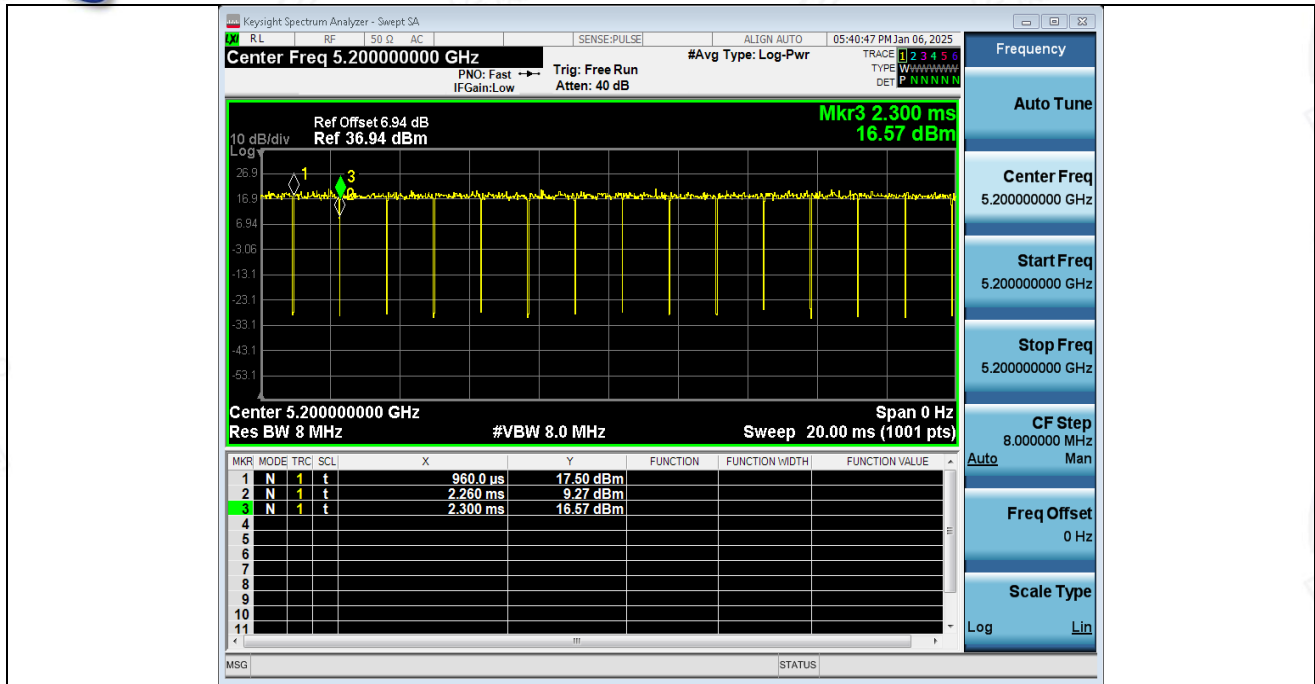


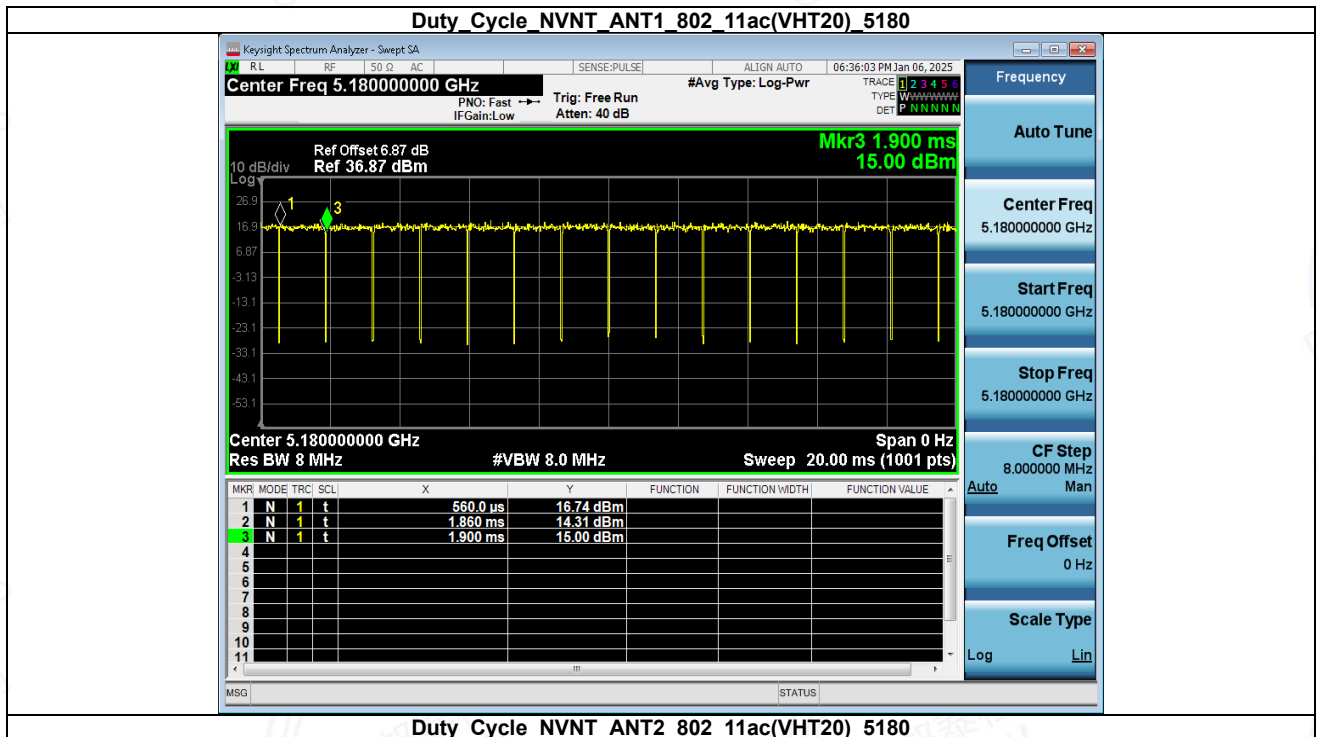
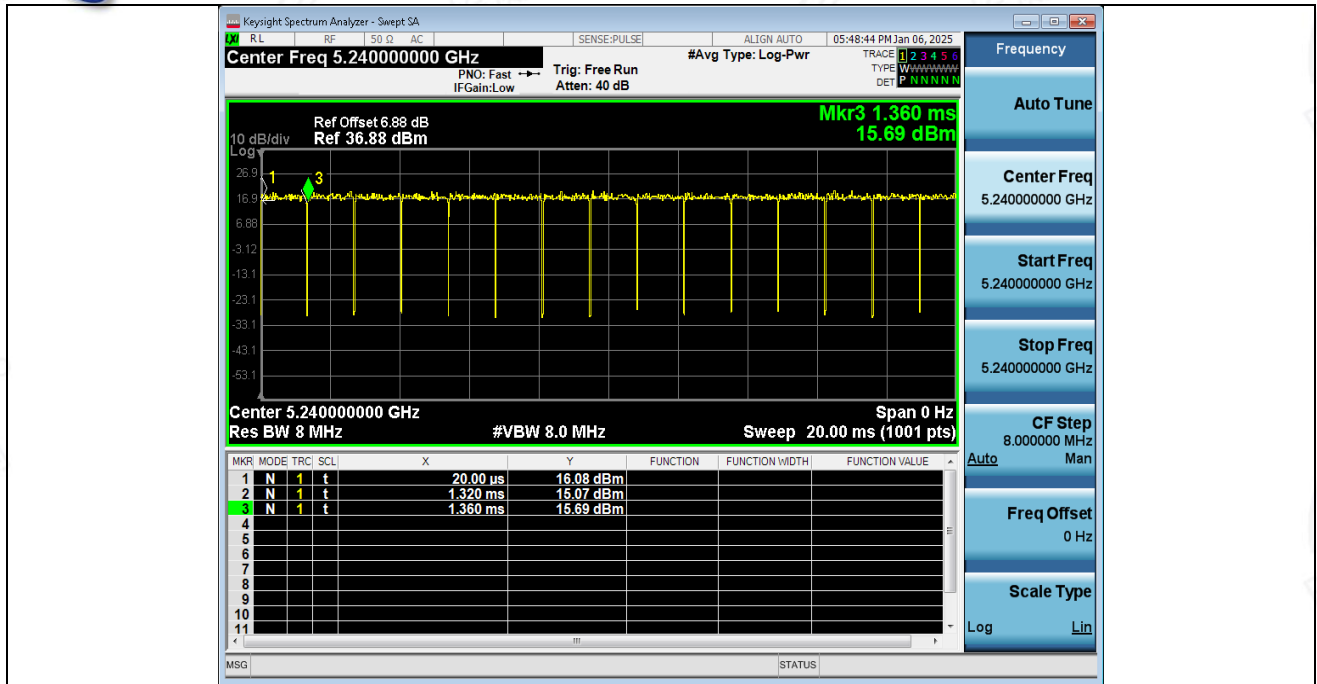


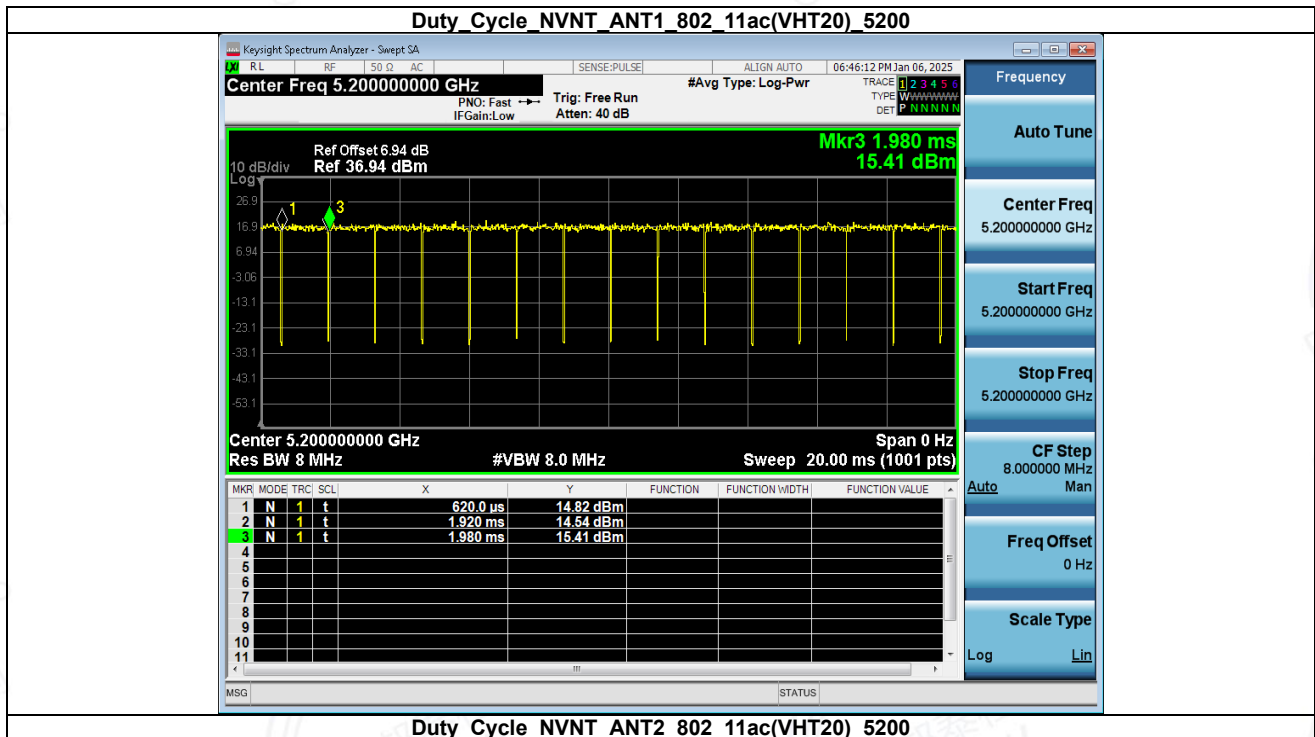
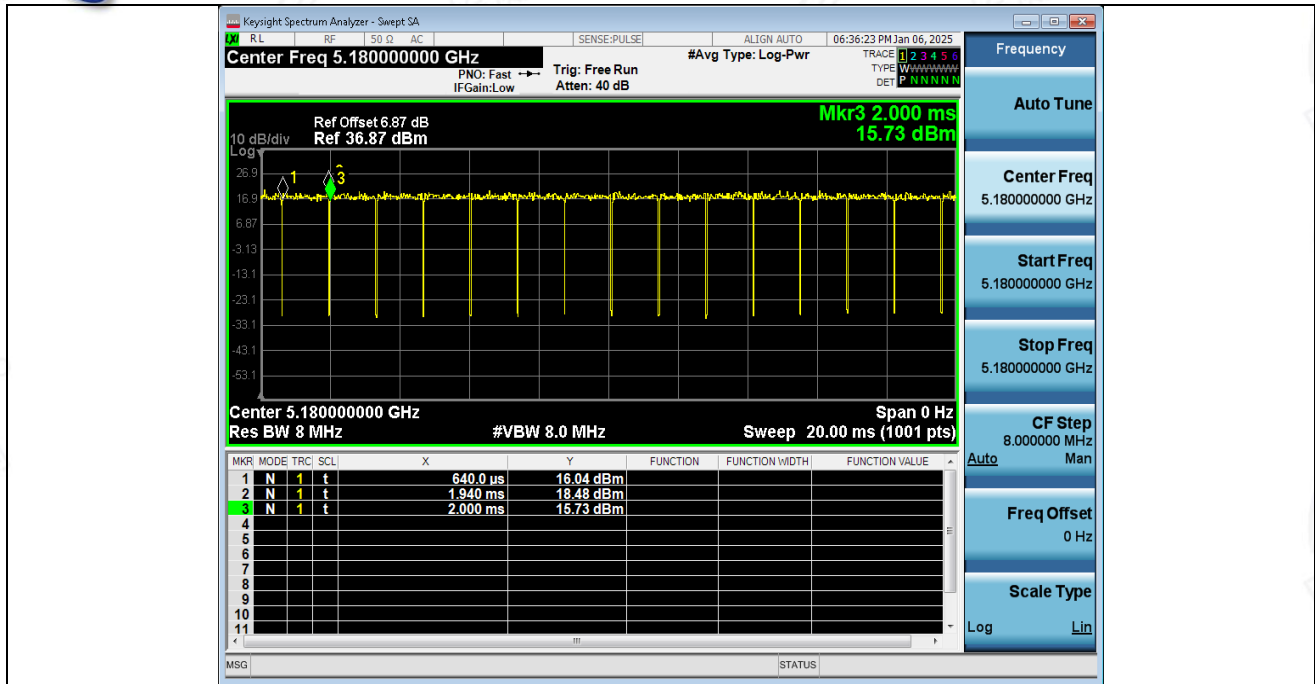


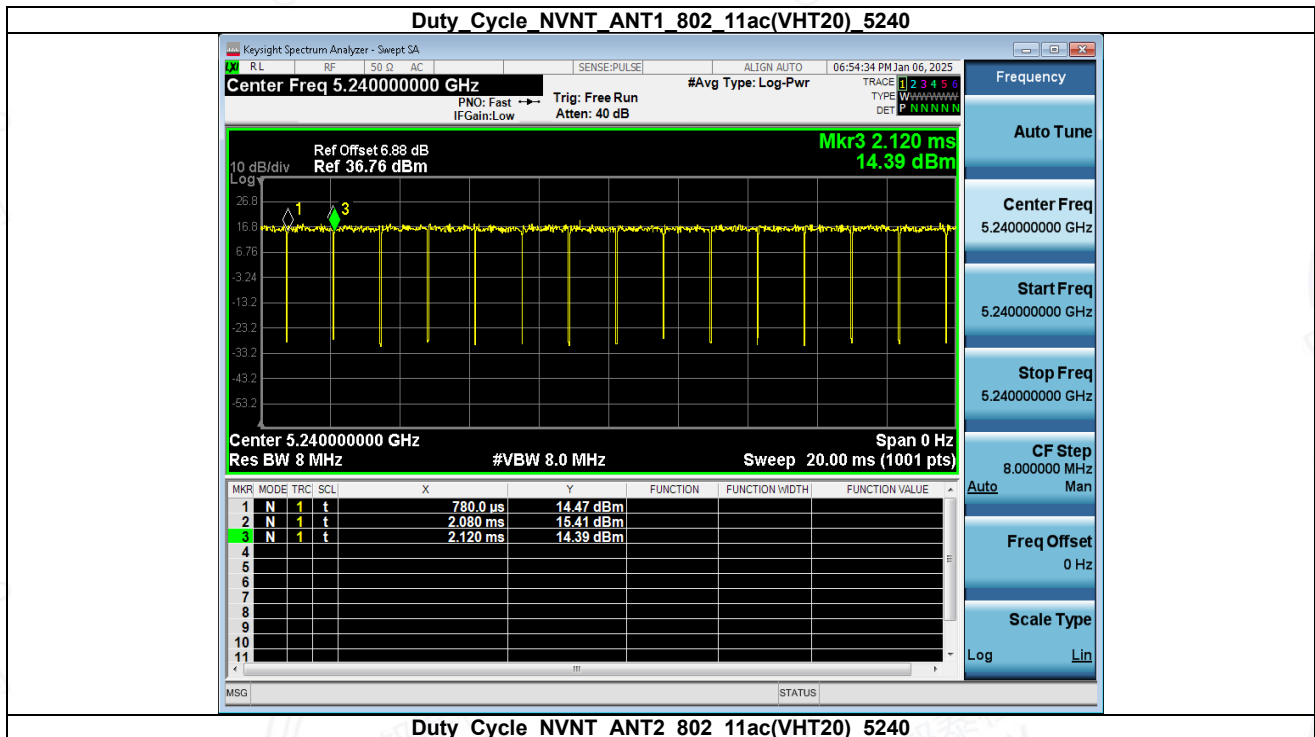
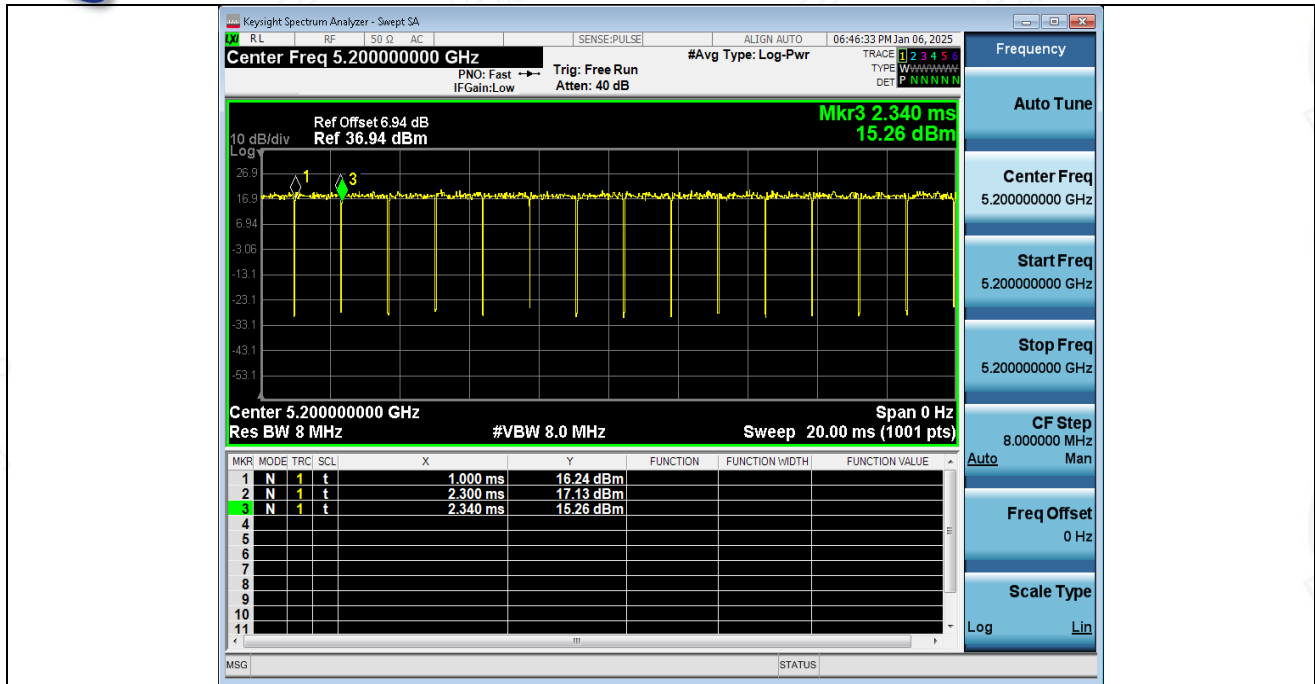


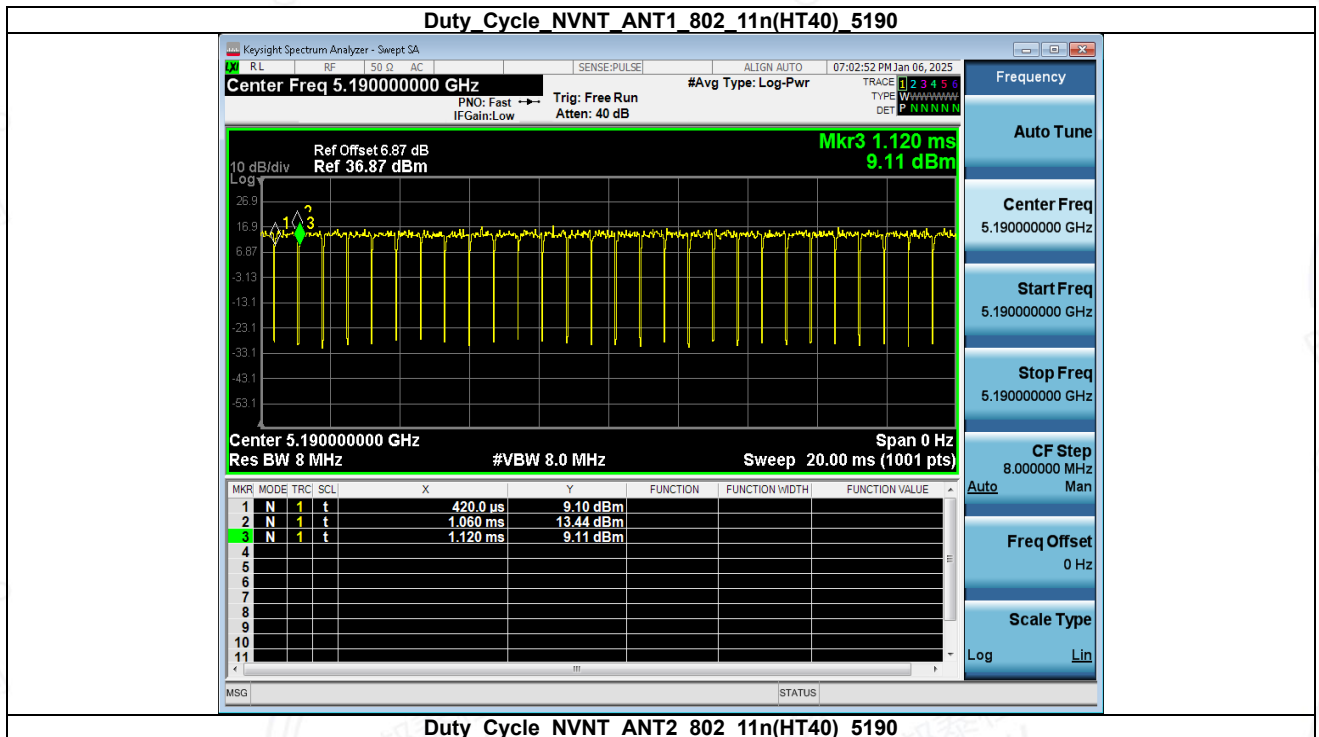
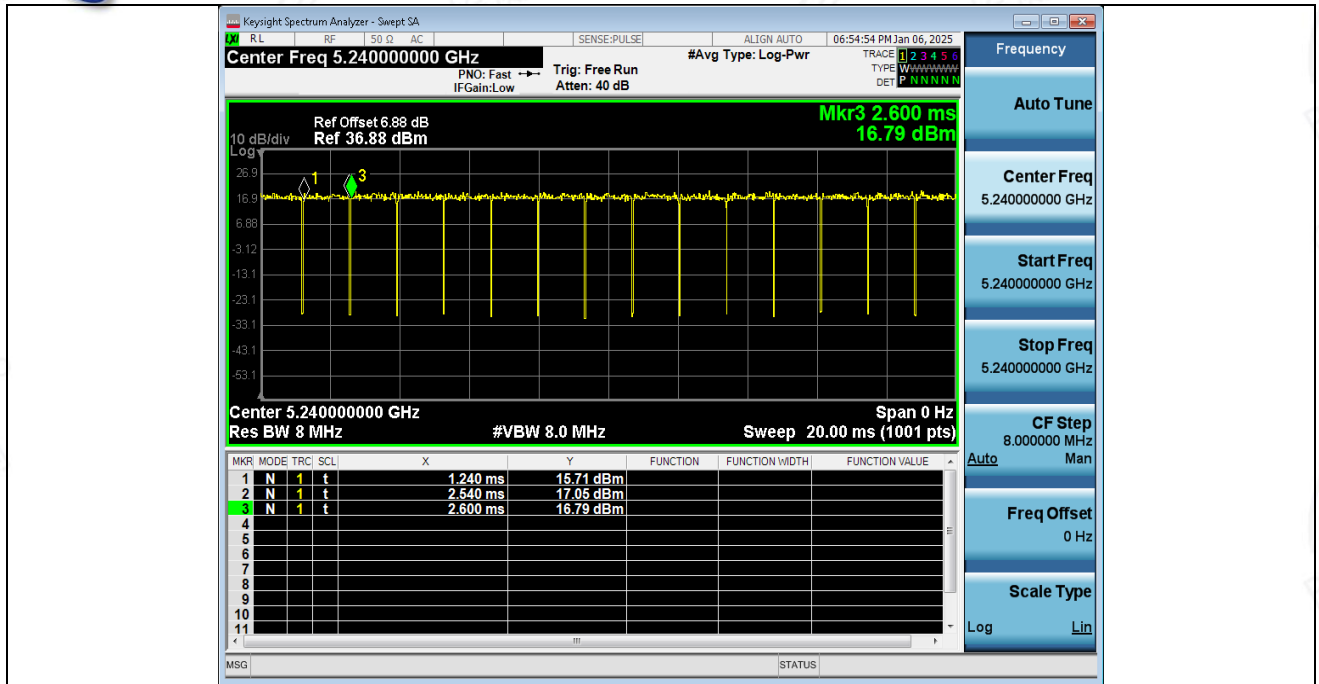


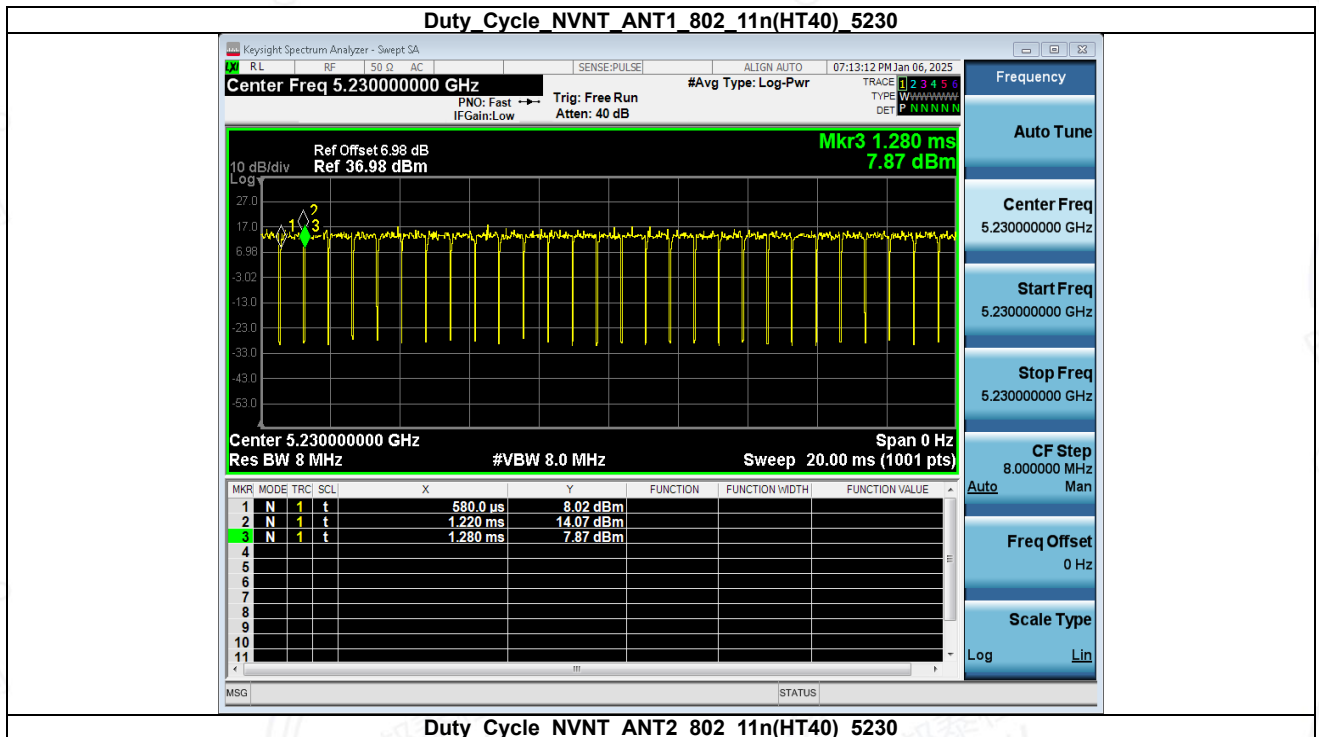
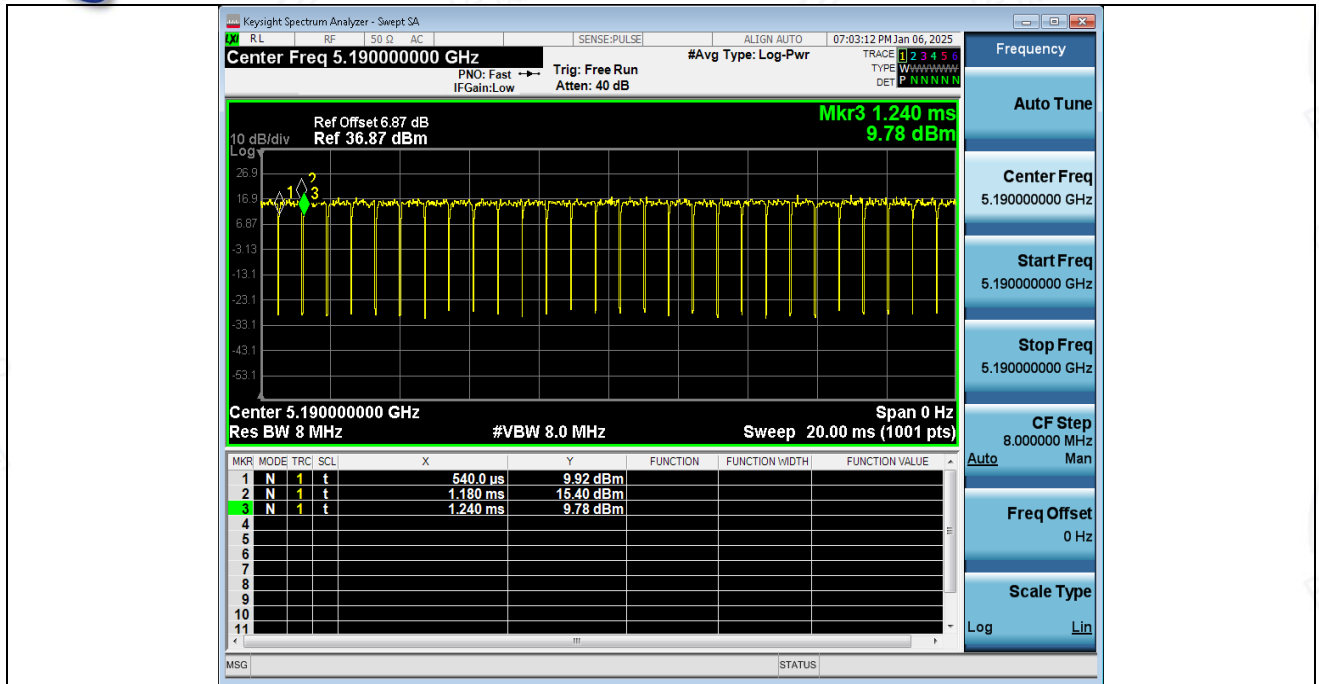


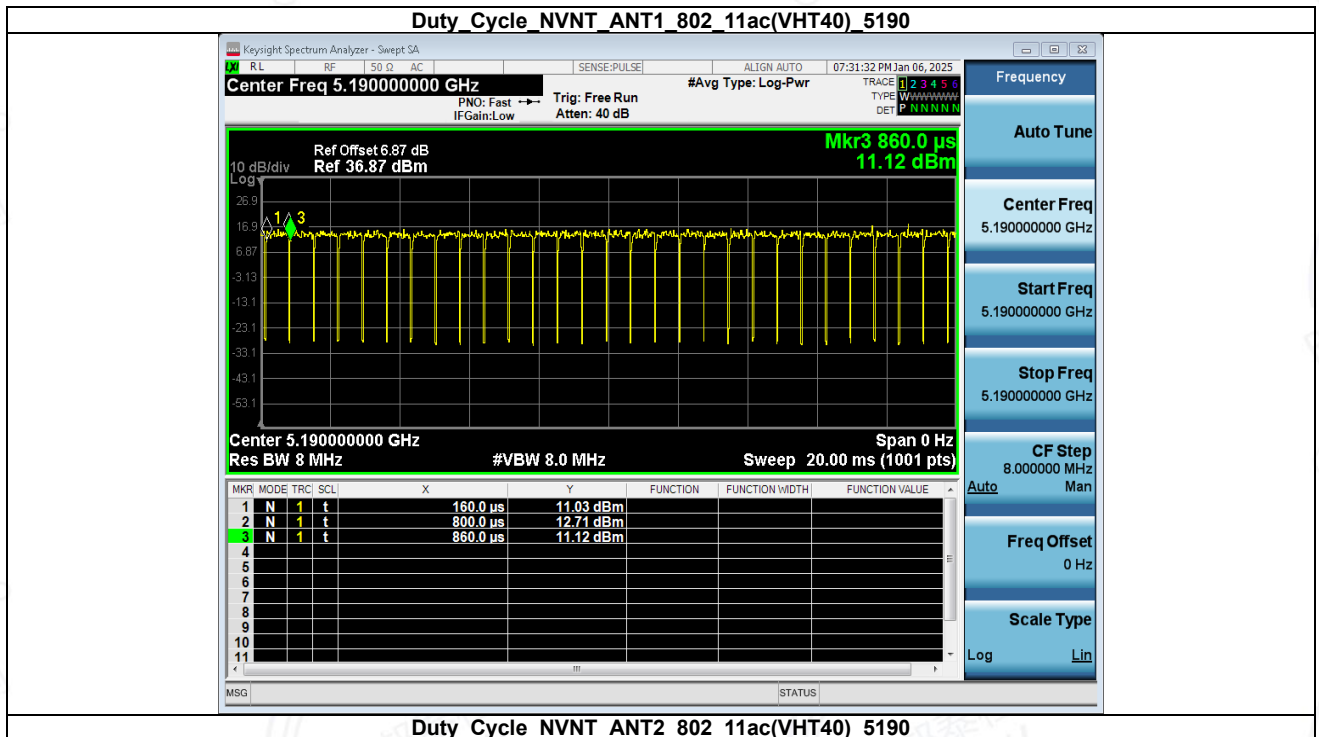
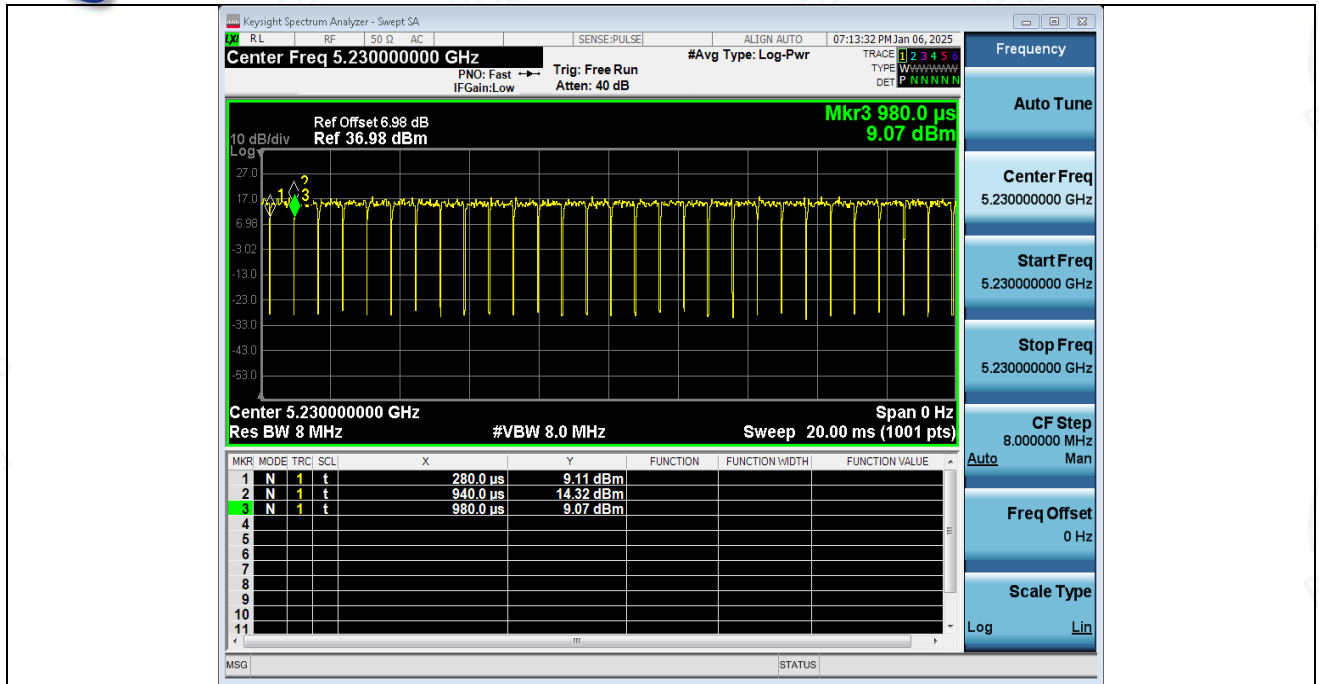


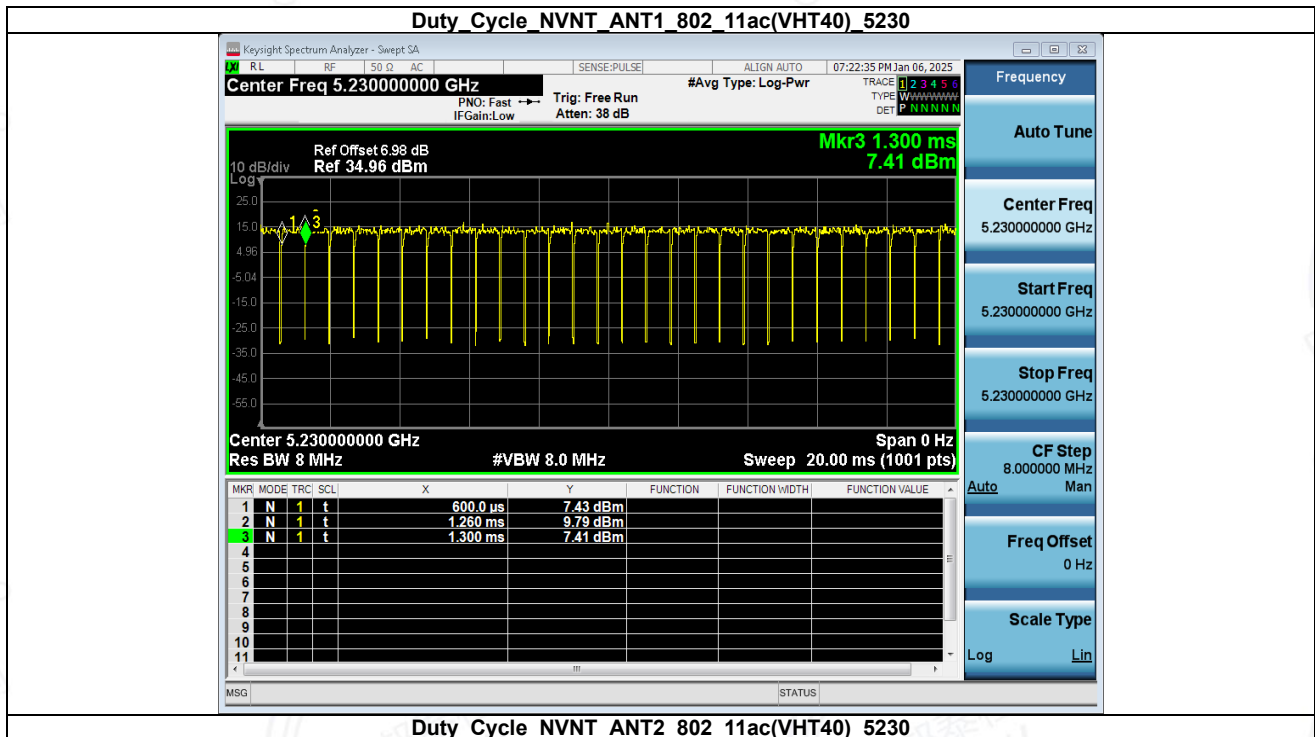
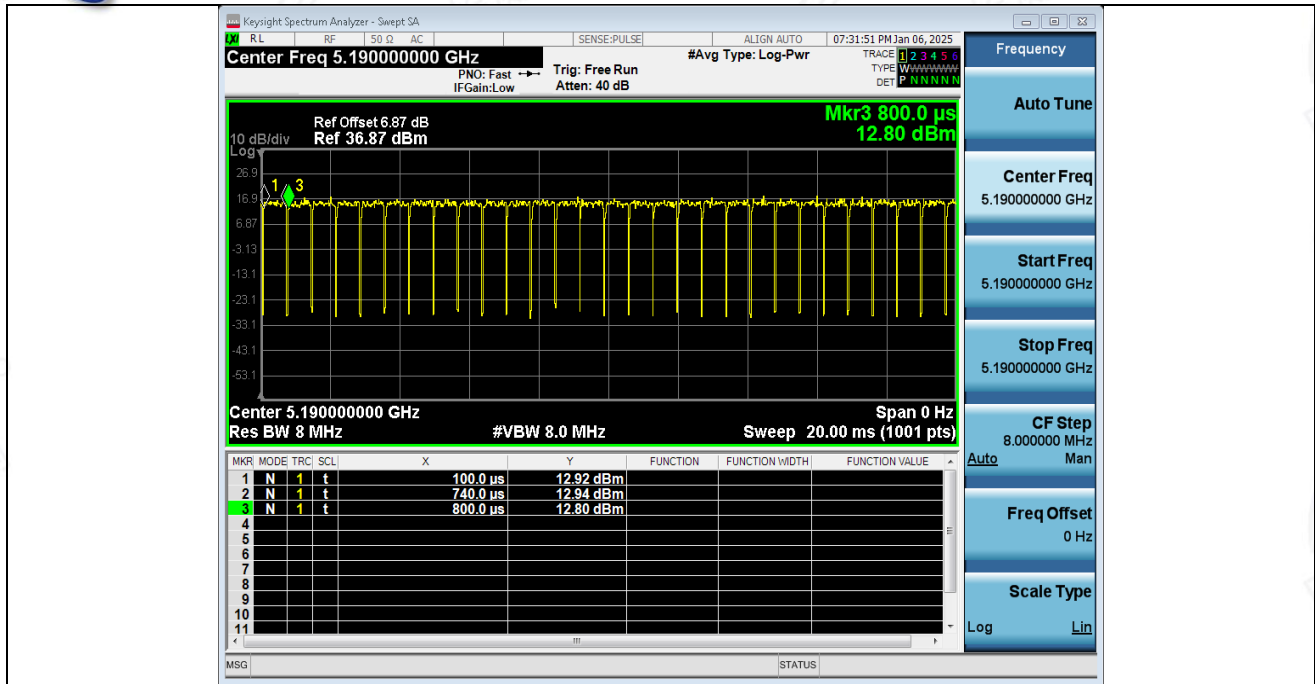


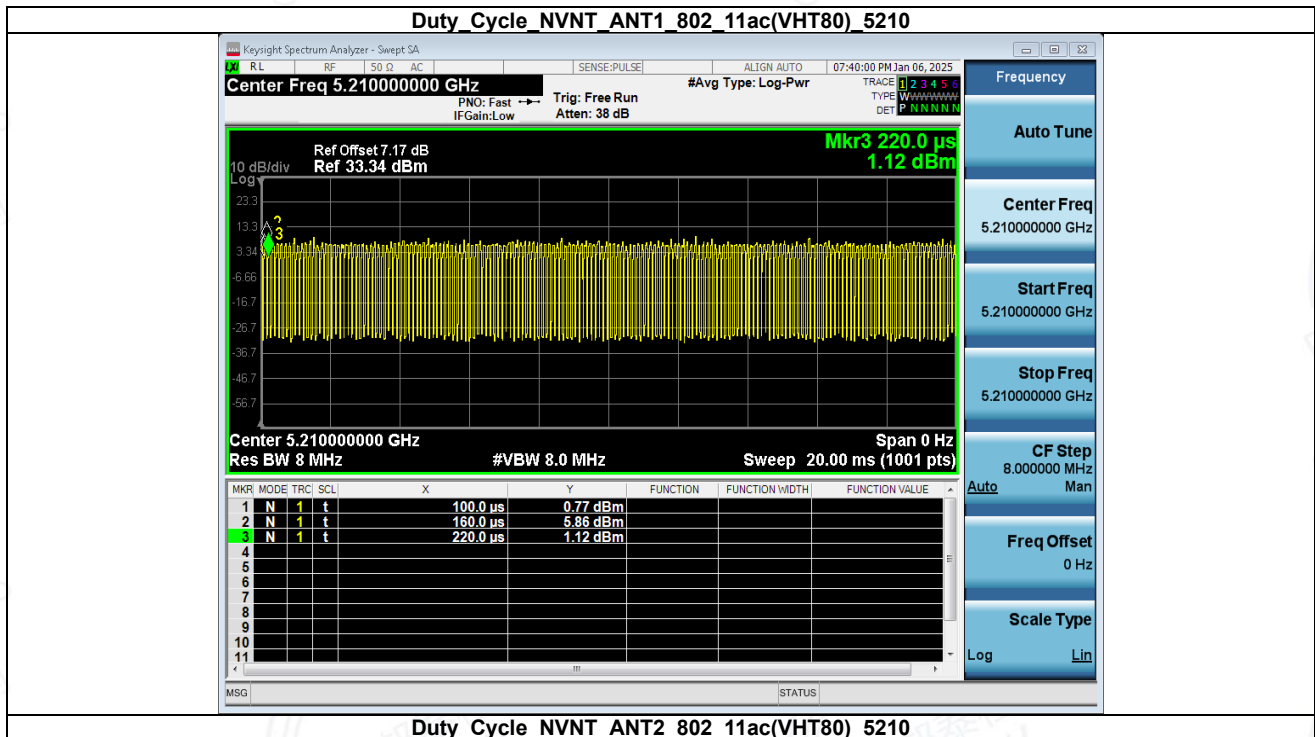
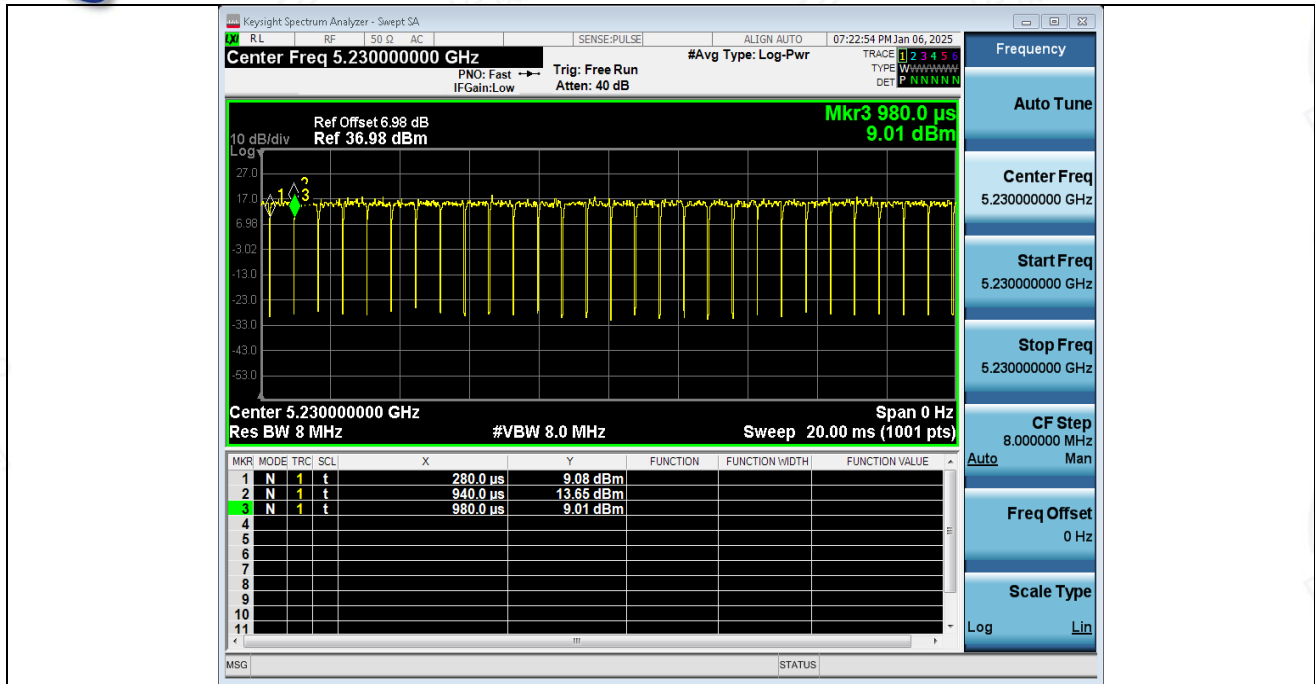


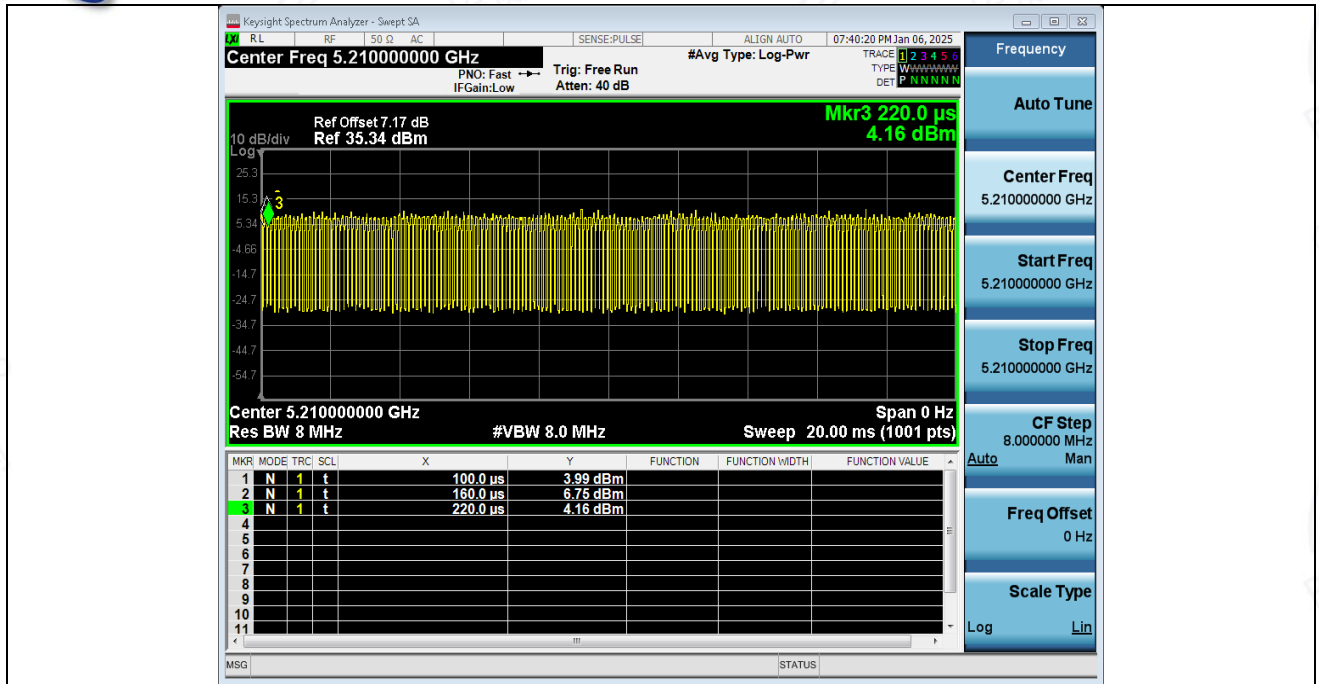








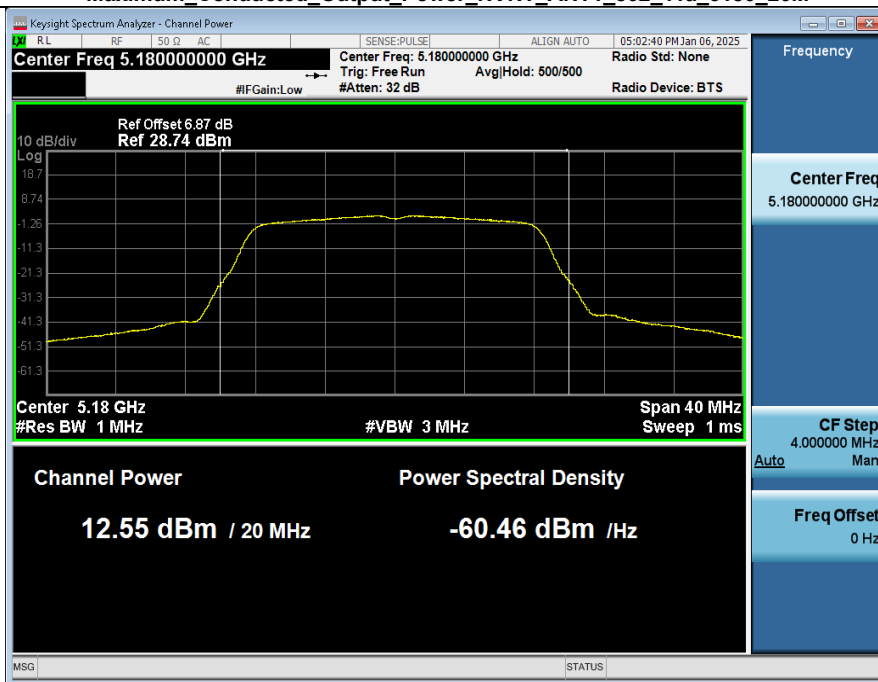




3. Maximum Conducted Output Power

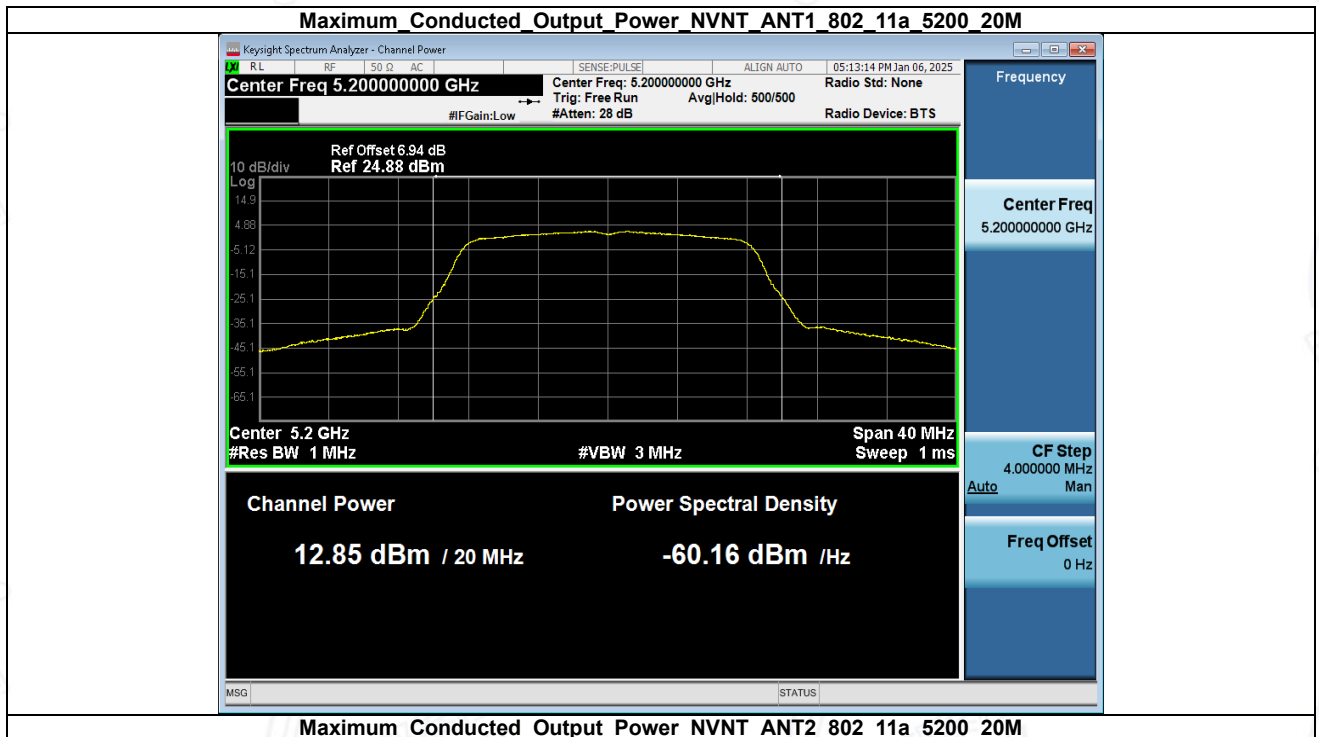
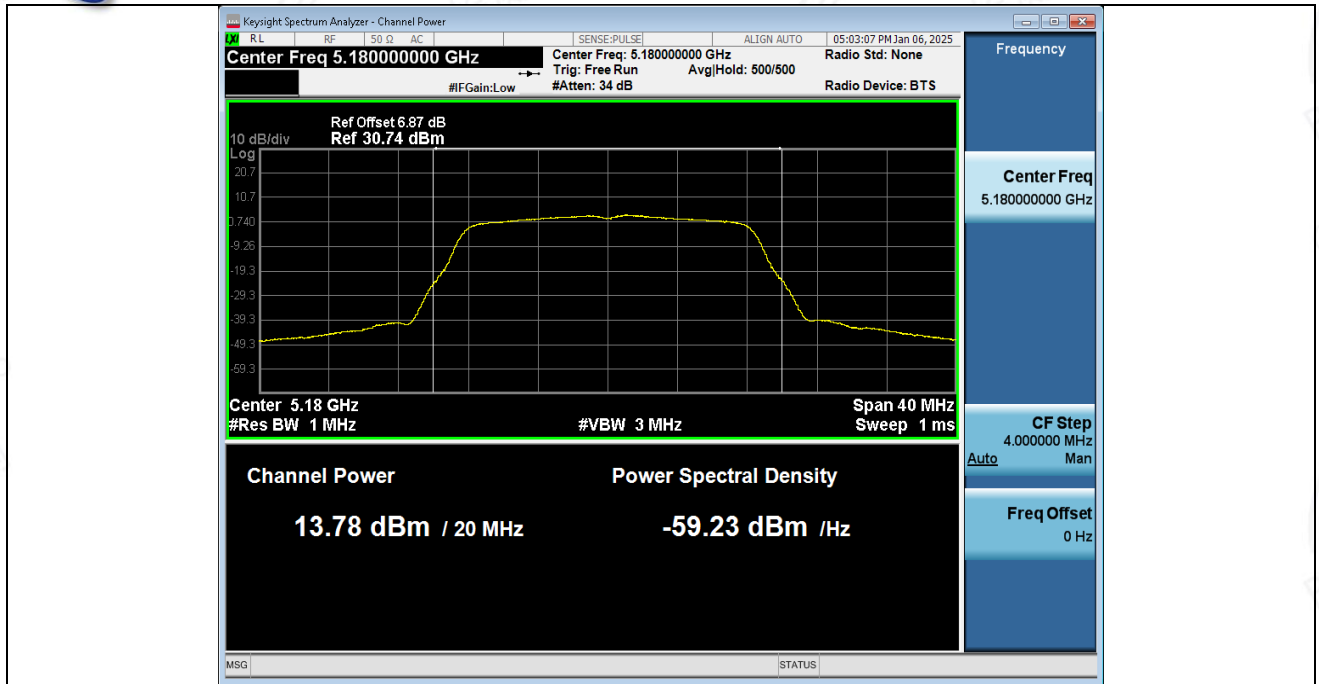
Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.55	0.12	12.67	24	Pass
NVNT	ANT2	802.11a	5180.00	13.78	0.18	13.96	24	Pass
NVNT	ANT1	802.11a	5200.00	12.85	0.12	12.97	24	Pass
NVNT	ANT2	802.11a	5200.00	14.36	0.18	14.54	24	Pass
NVNT	ANT1	802.11a	5240.00	12.41	0.12	12.53	24	Pass
NVNT	ANT2	802.11a	5240.00	14.07	0.18	14.25	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	11.50	0.20	11.70	24	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	12.78	0.13	12.91	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	11.67	0.20	11.87	24	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	13.44	0.13	13.57	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	11.30	0.20	11.50	24	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	13.05	0.13	13.18	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	11.80	0.13	11.93	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	13.10	0.20	13.30	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	11.95	0.20	12.15	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	13.66	0.13	13.79	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	11.40	0.13	11.53	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	13.12	0.20	13.32	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	12.09	0.39	12.48	24	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	13.47	0.39	13.86	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	11.67	0.39	12.06	24	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	13.35	0.26	13.61	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	11.95	0.39	12.34	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	13.38	0.39	13.77	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	11.70	0.26	11.96	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	13.35	0.26	13.61	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	6.26	3.01	9.27	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	7.67	3.01	10.68	24	Pass

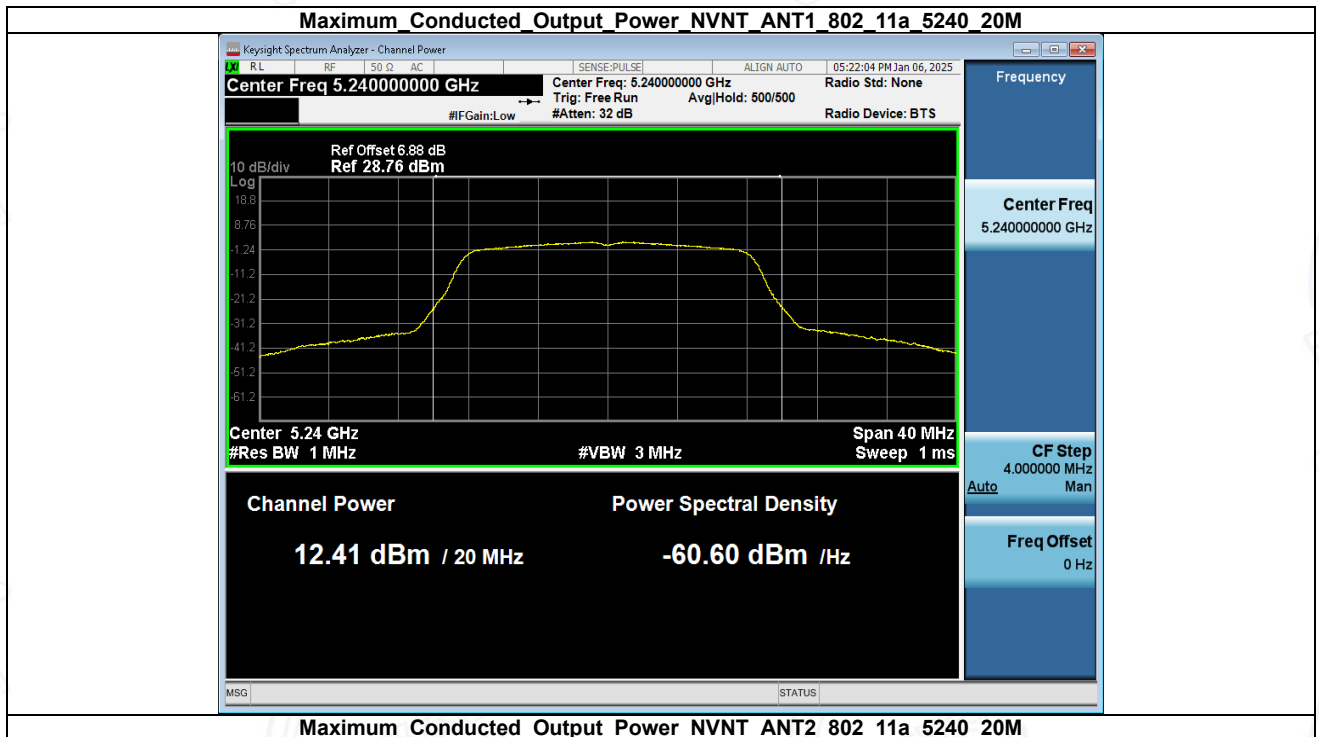
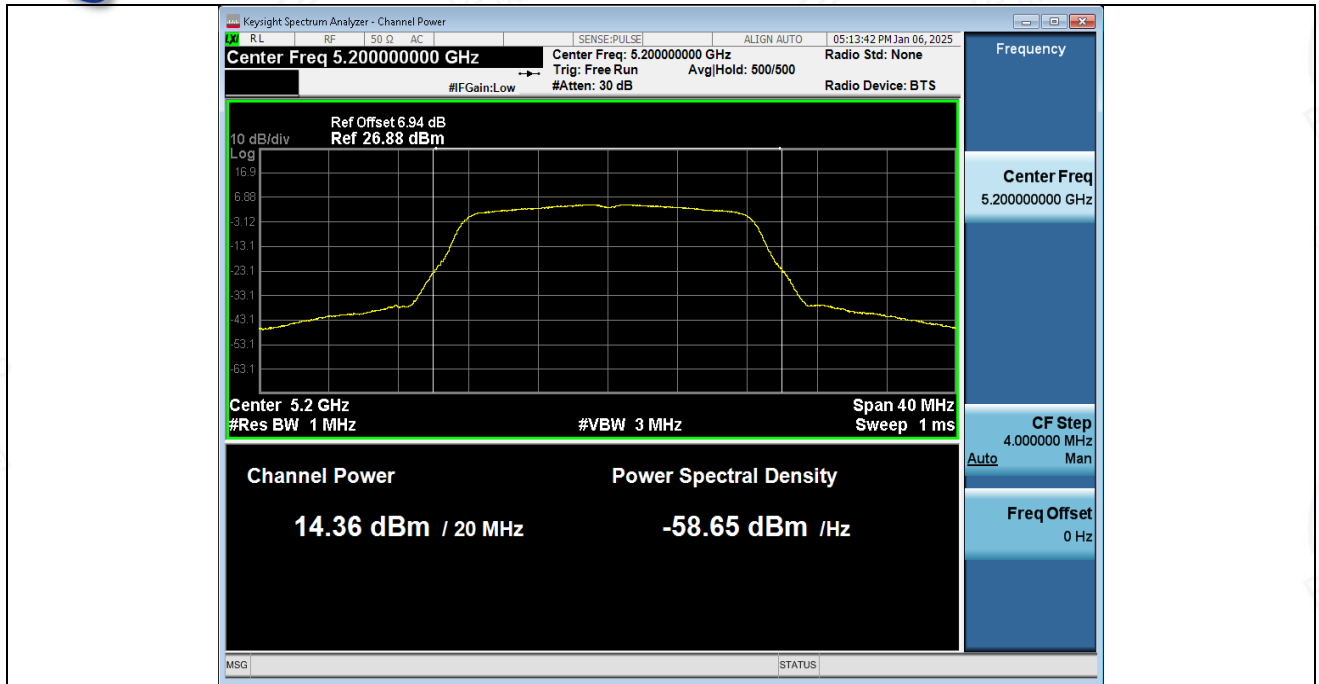
Maximum Conducted Output Power_NVNT_ANT1_802_11a_5180_20M

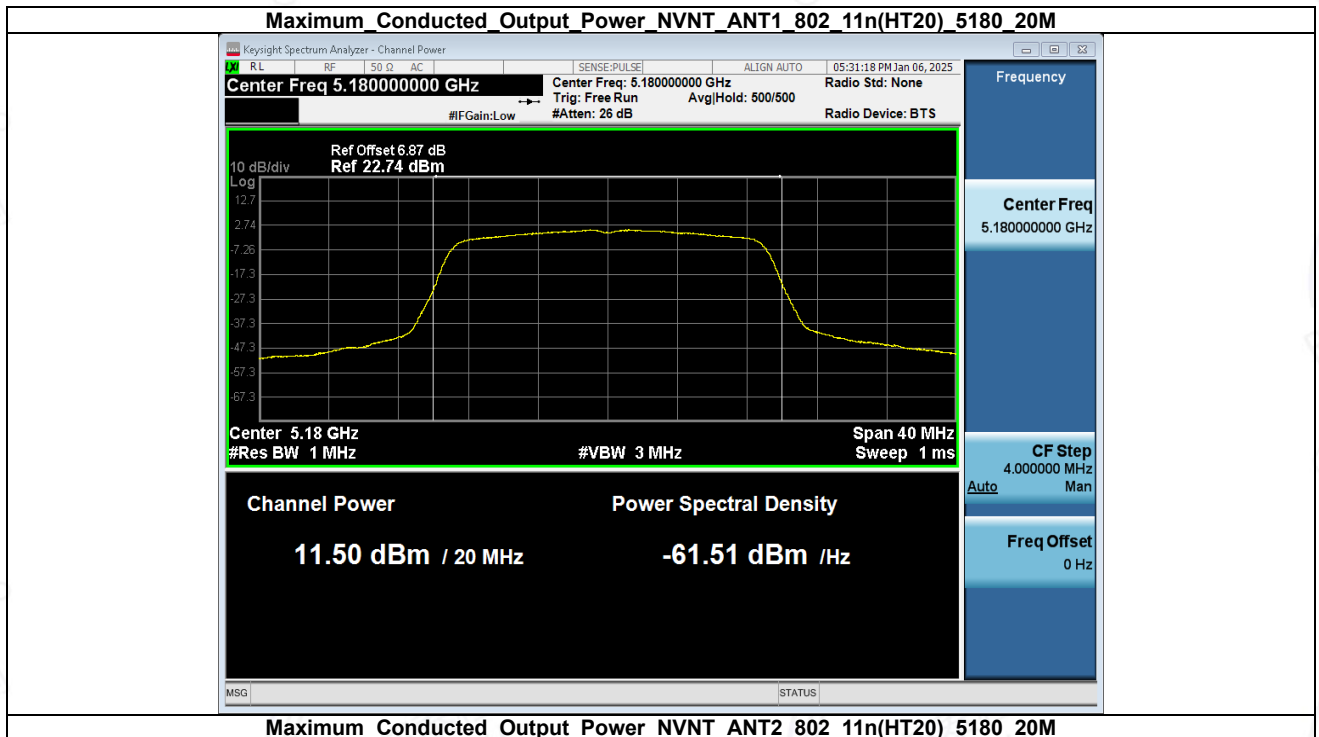
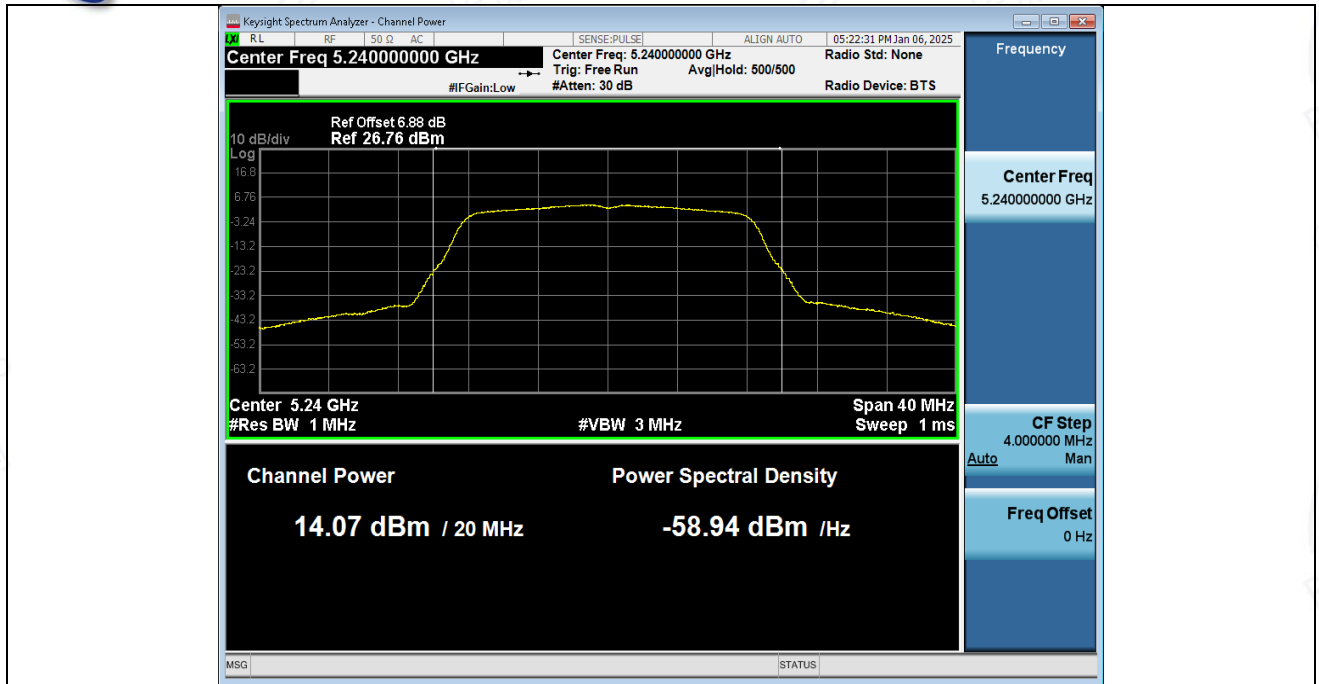


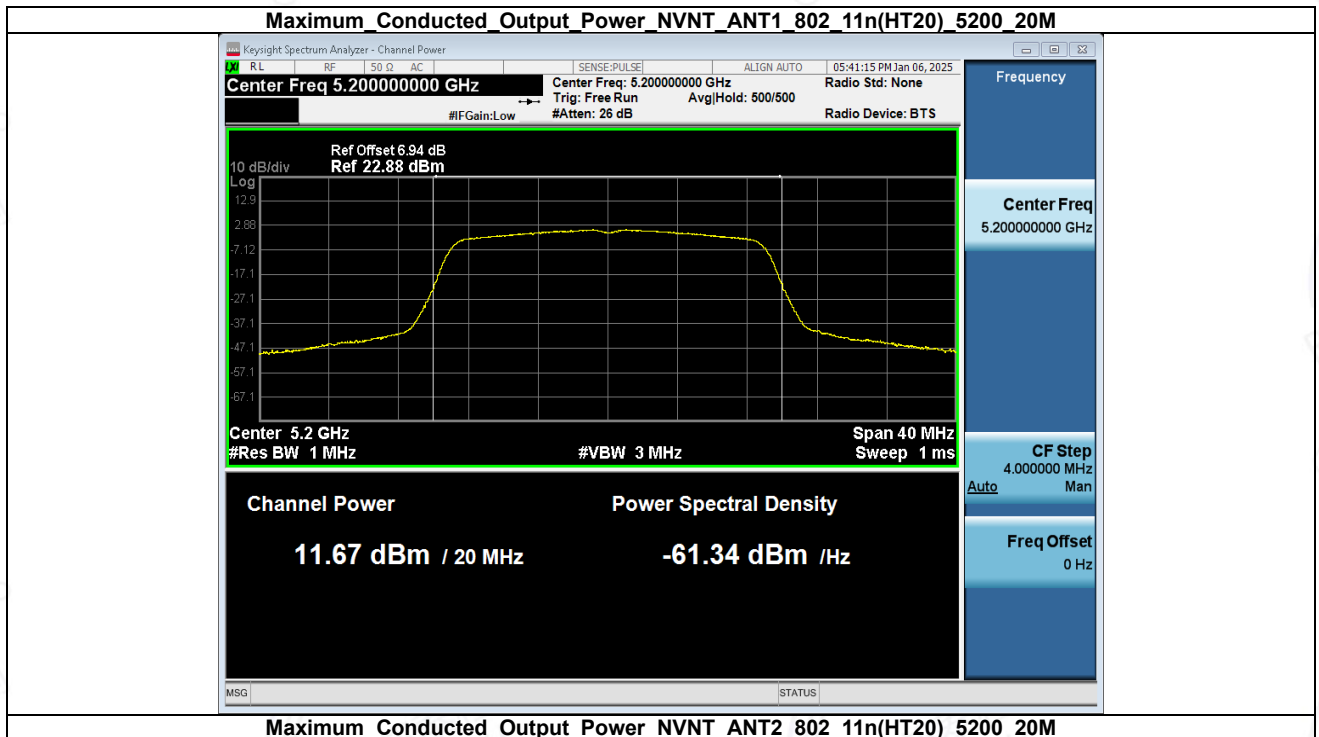
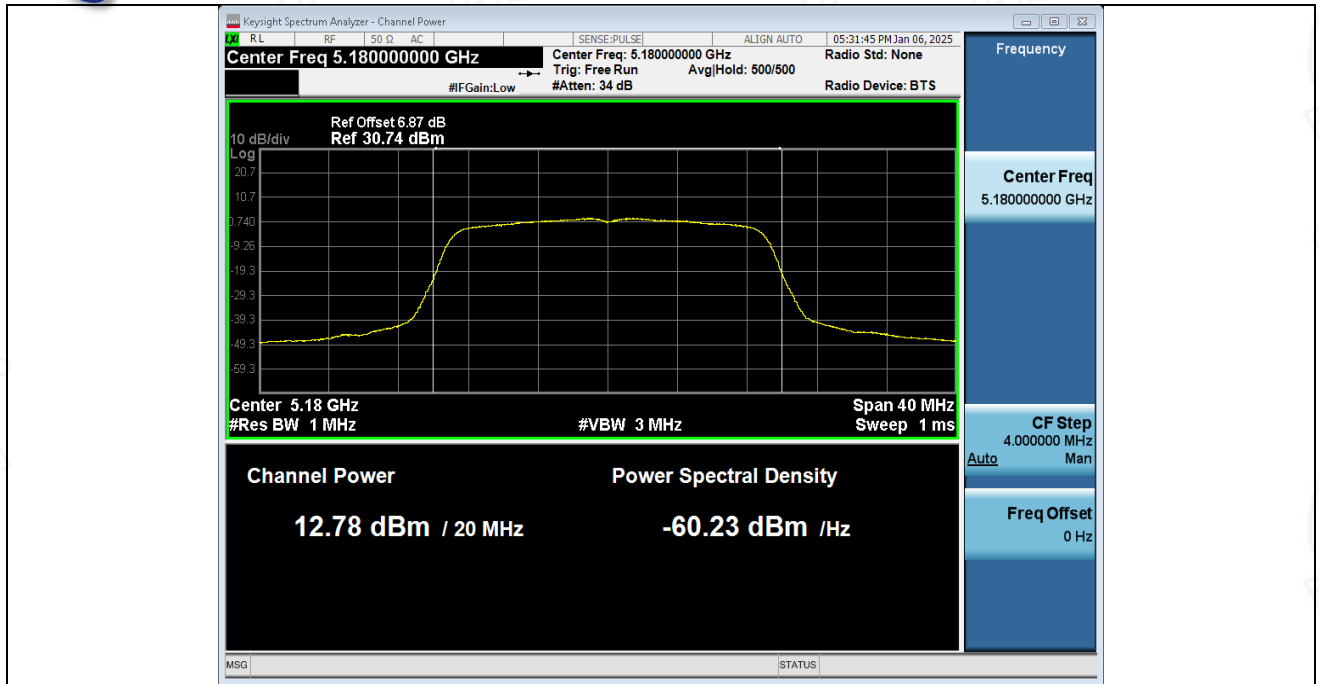
Maximum Conducted Output Power_NVNT_ANT2_802_11a_5180_20M

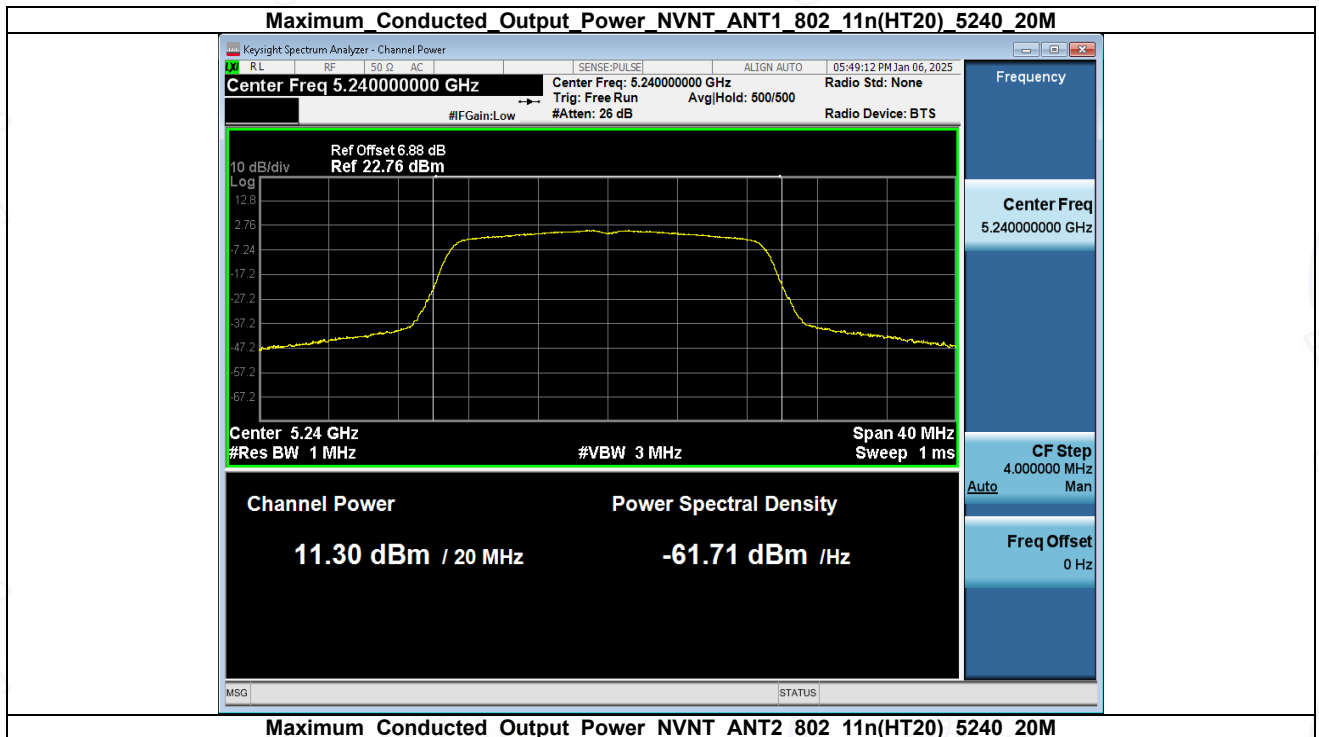
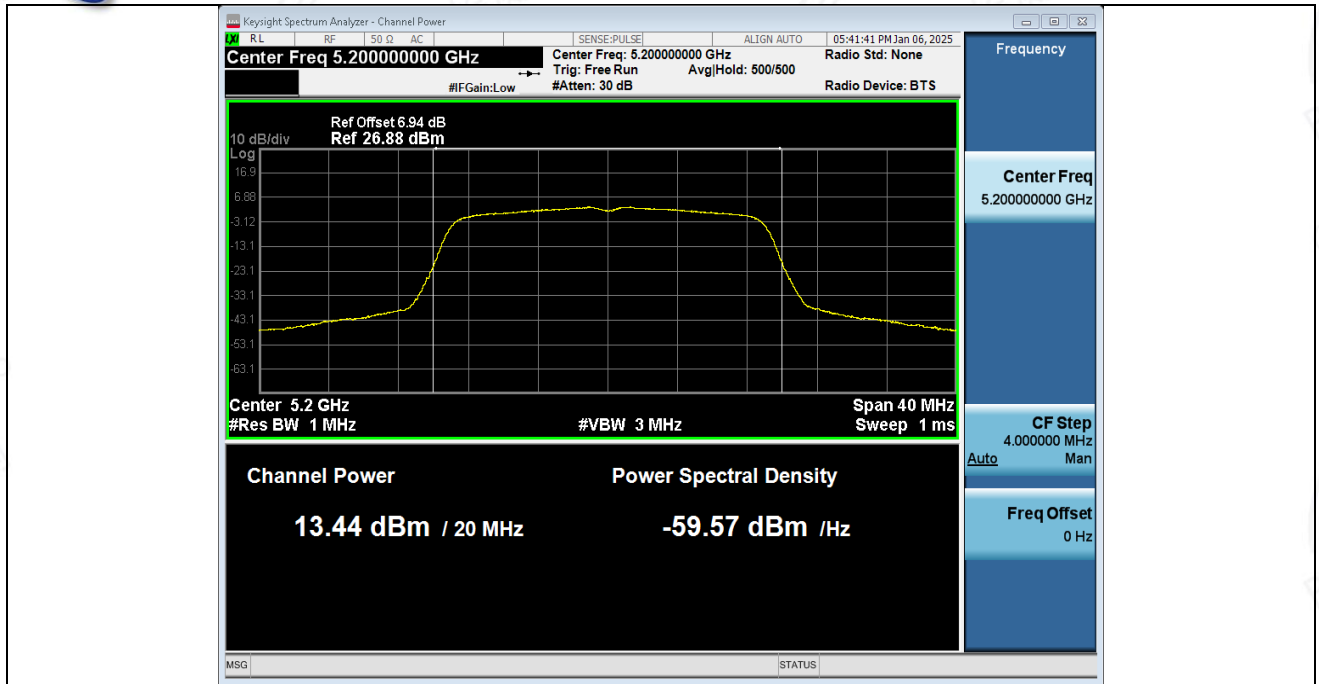


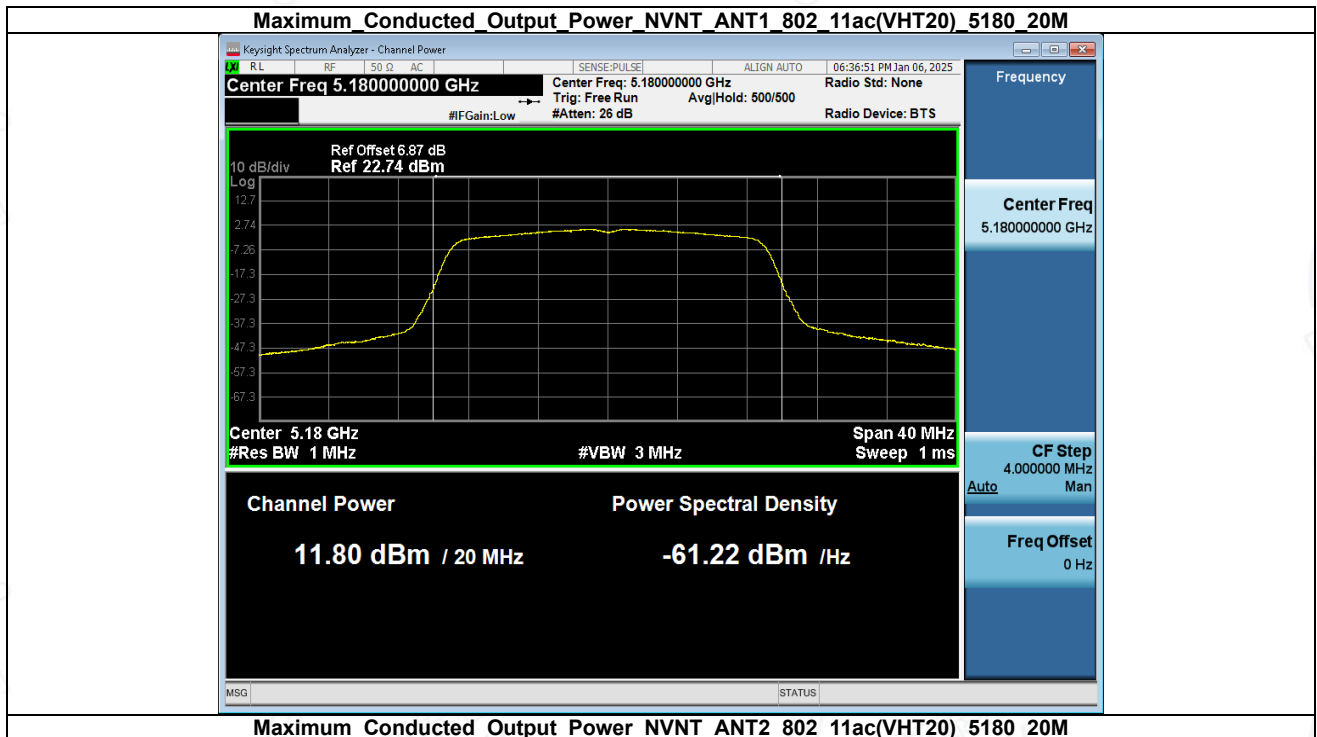
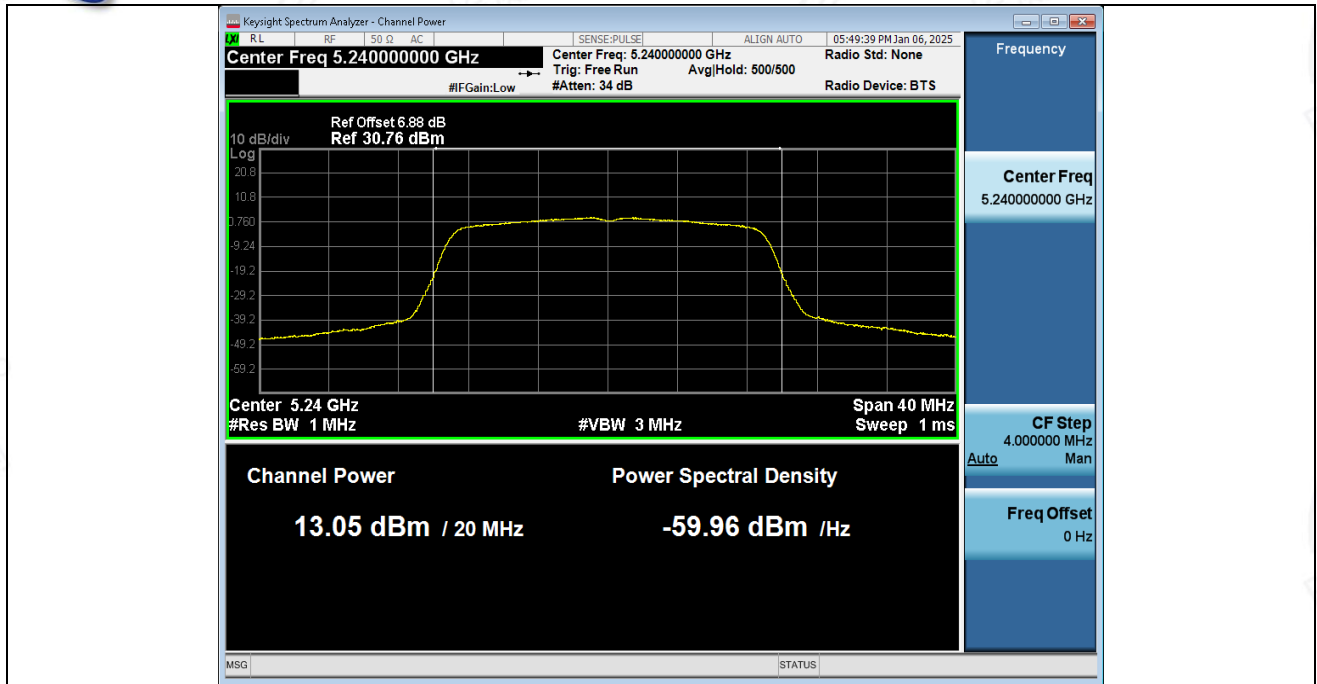


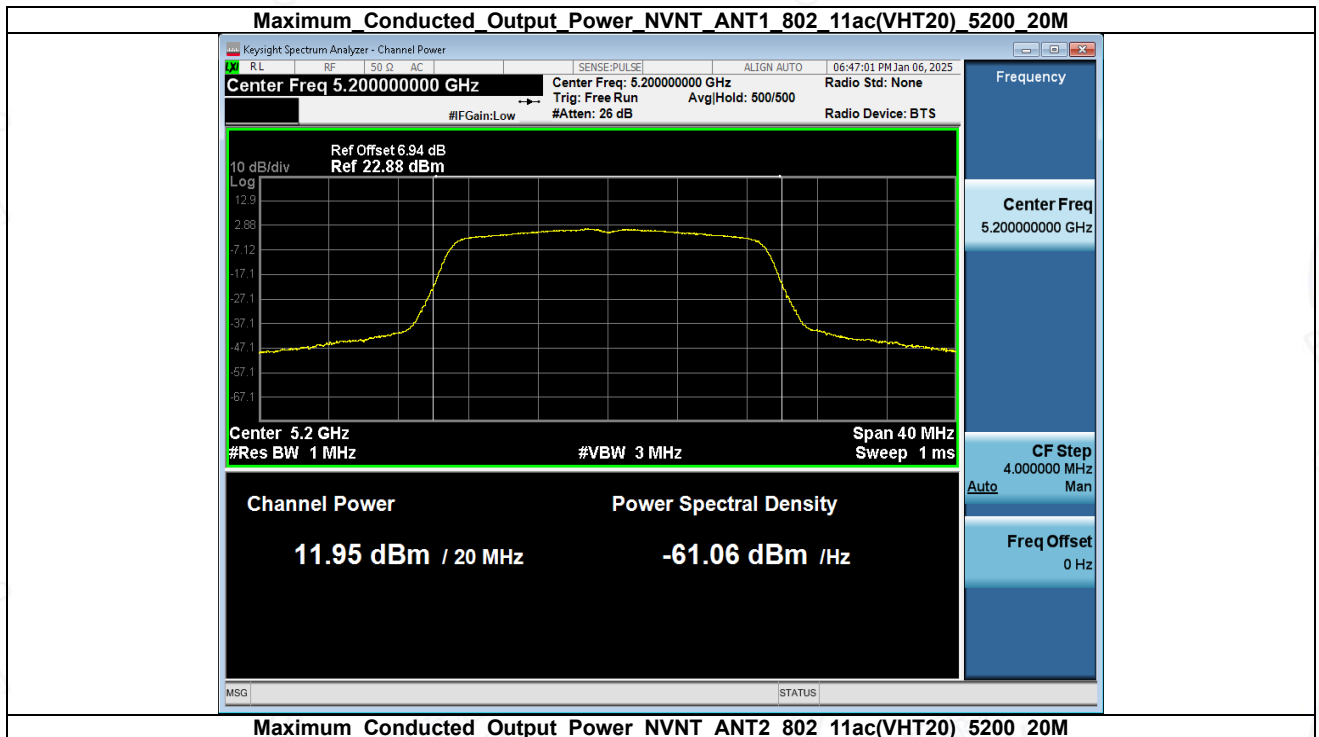
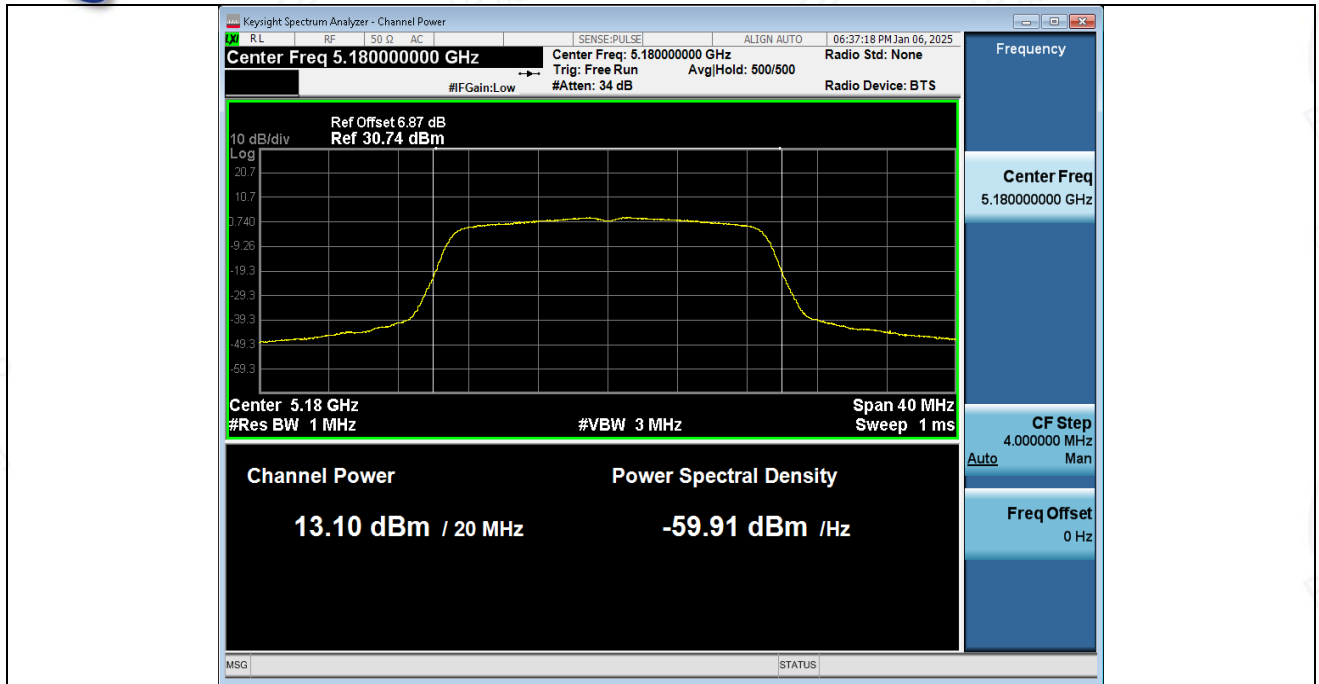


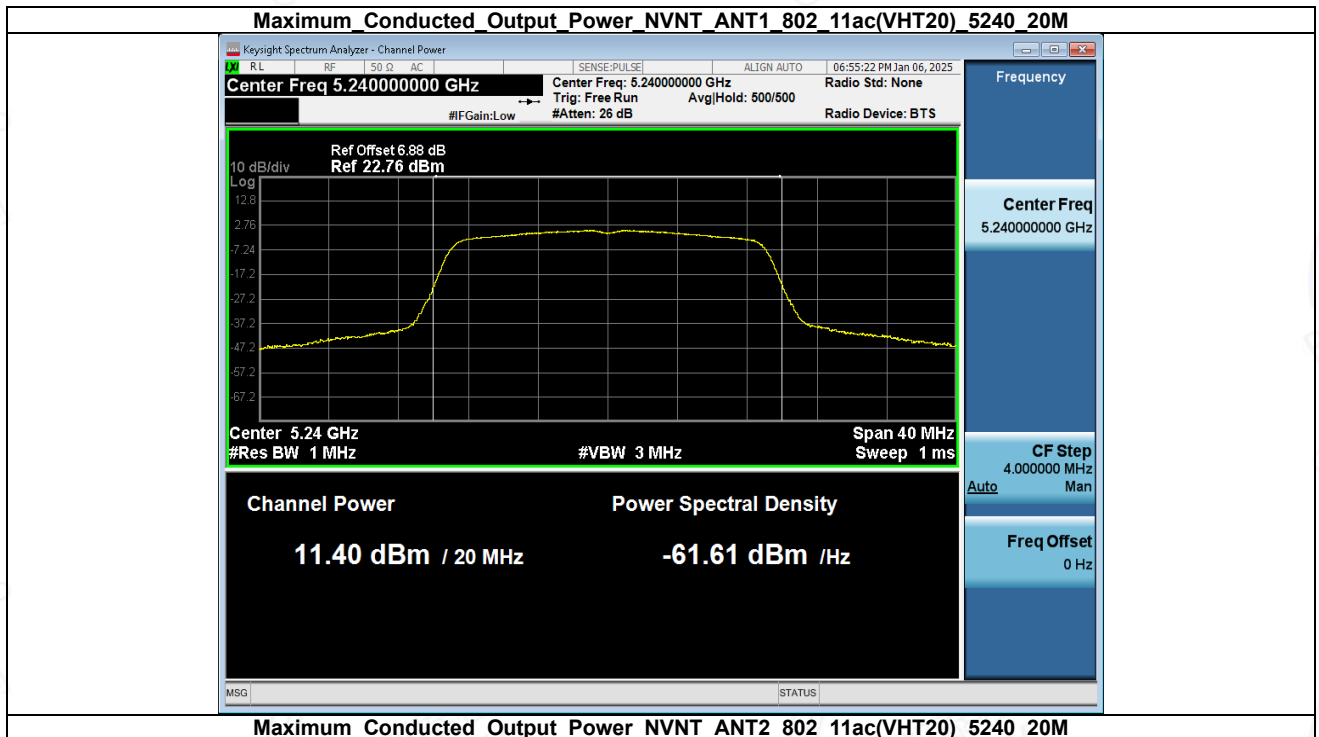
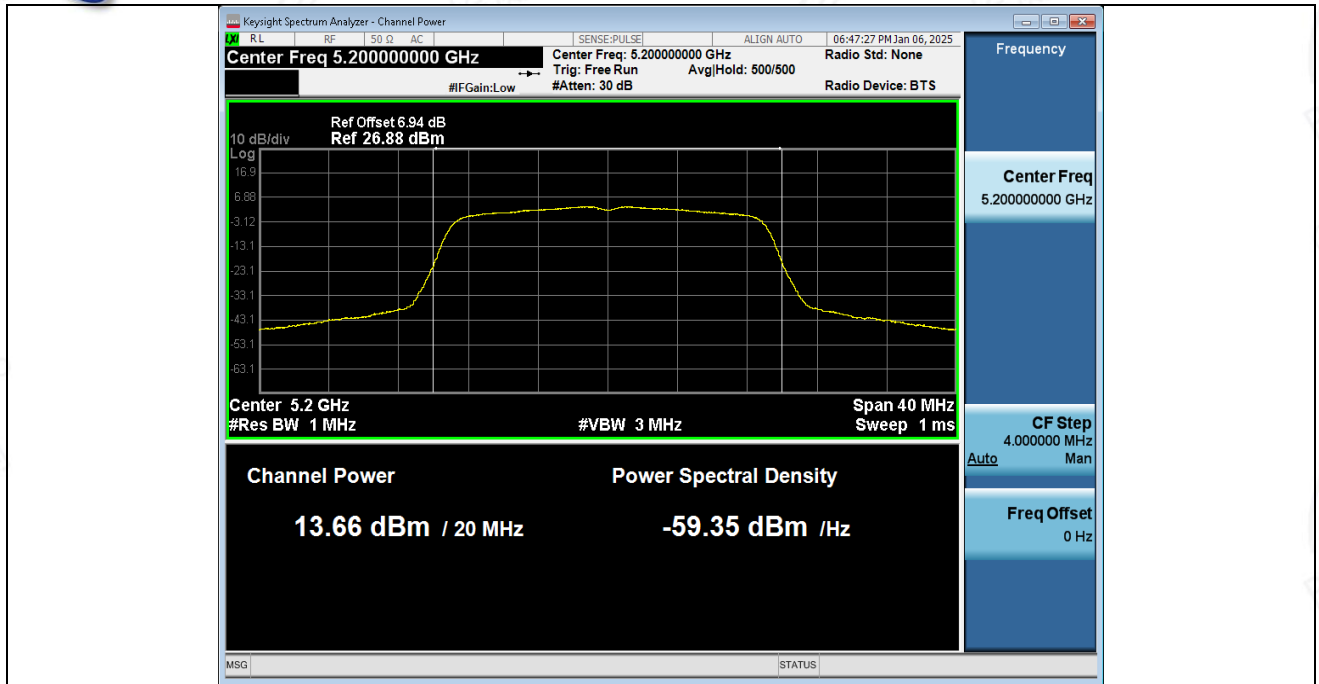


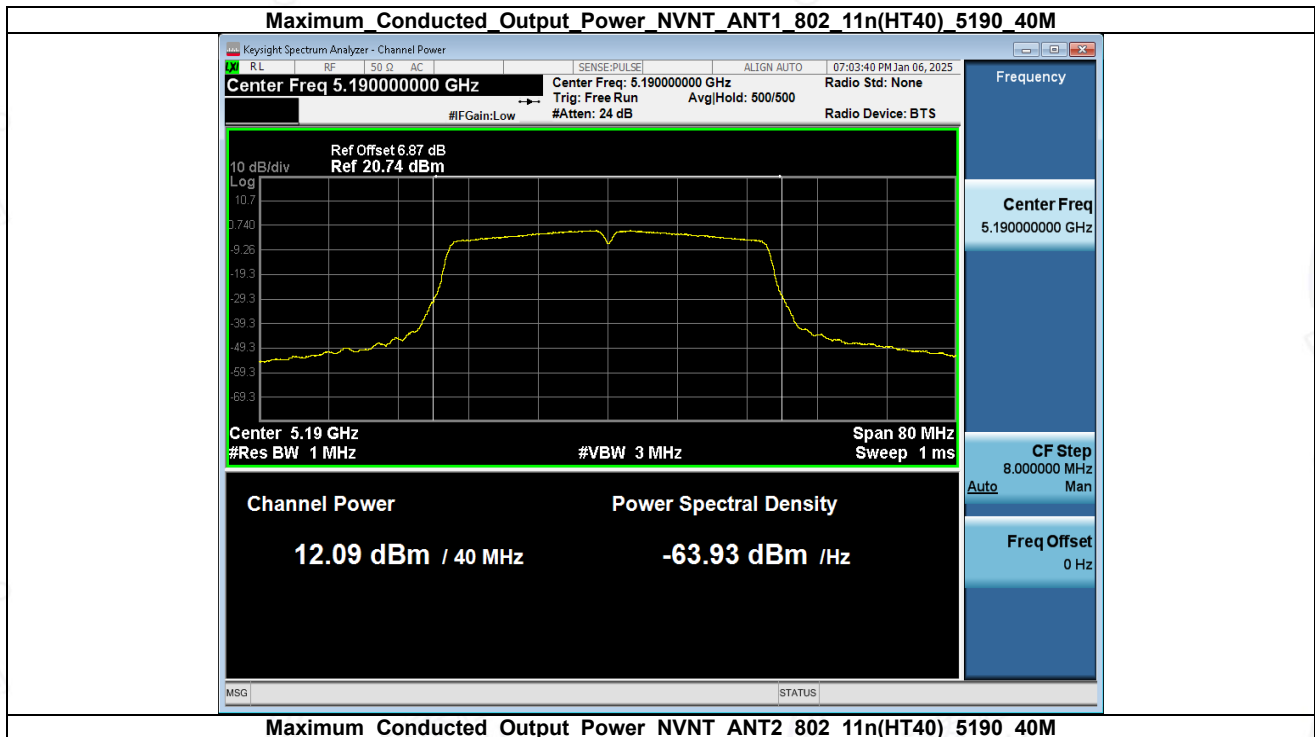
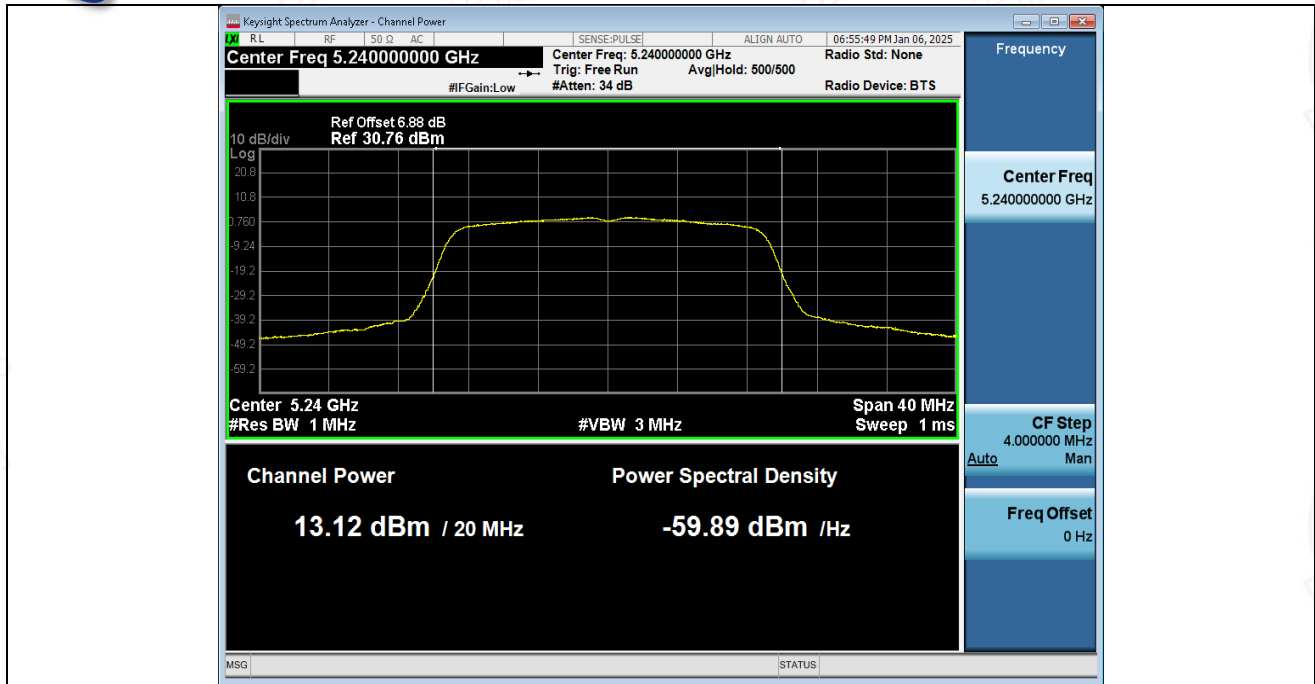


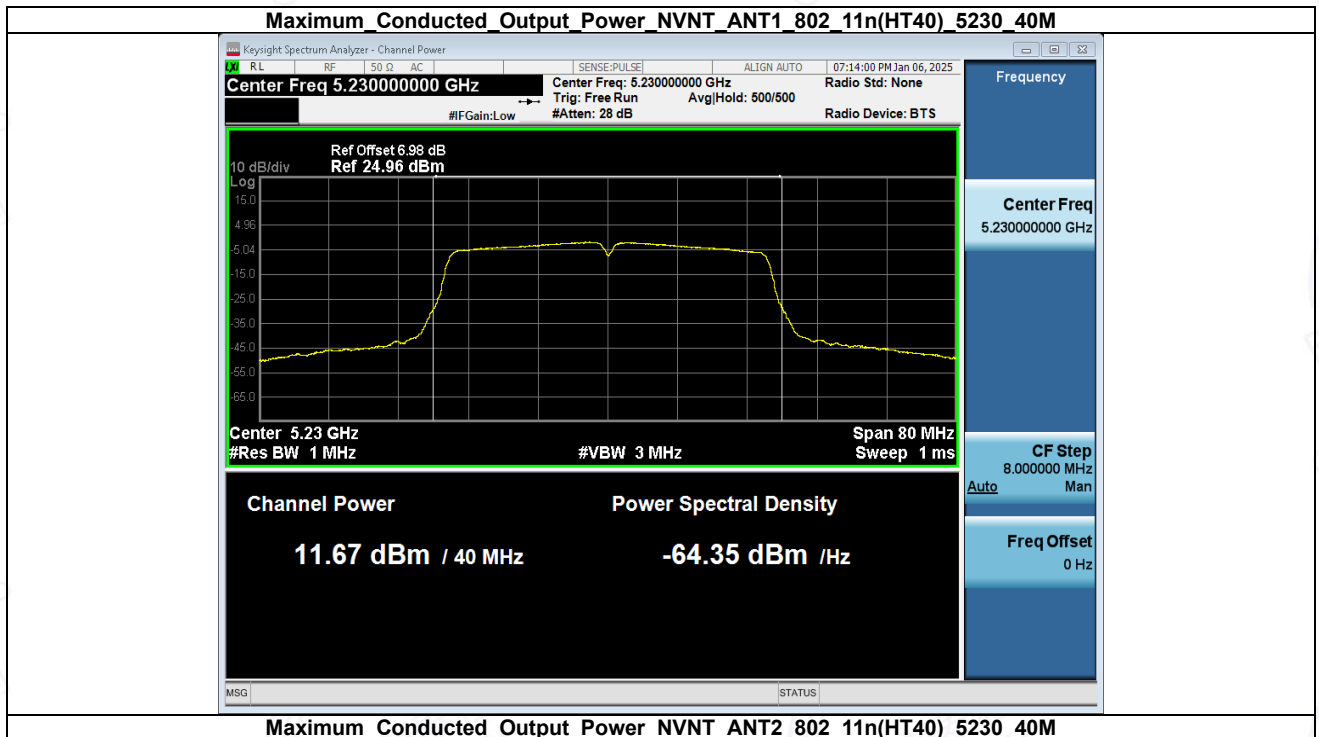
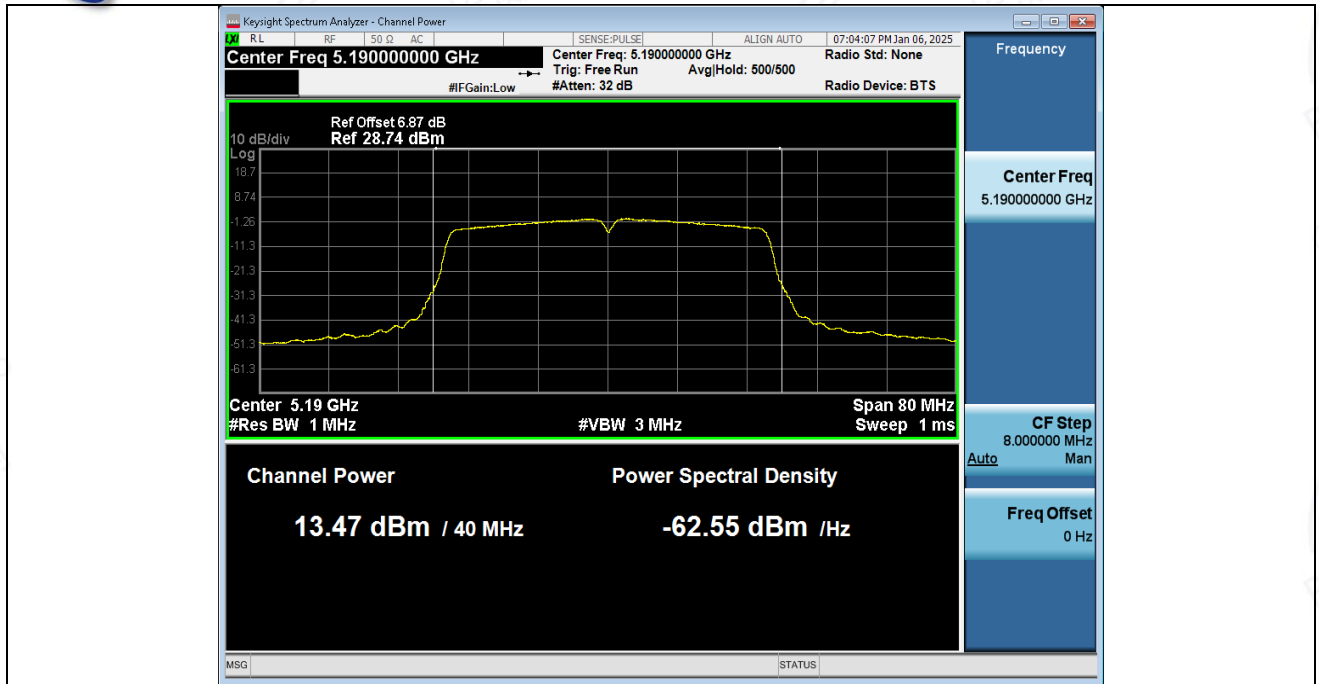


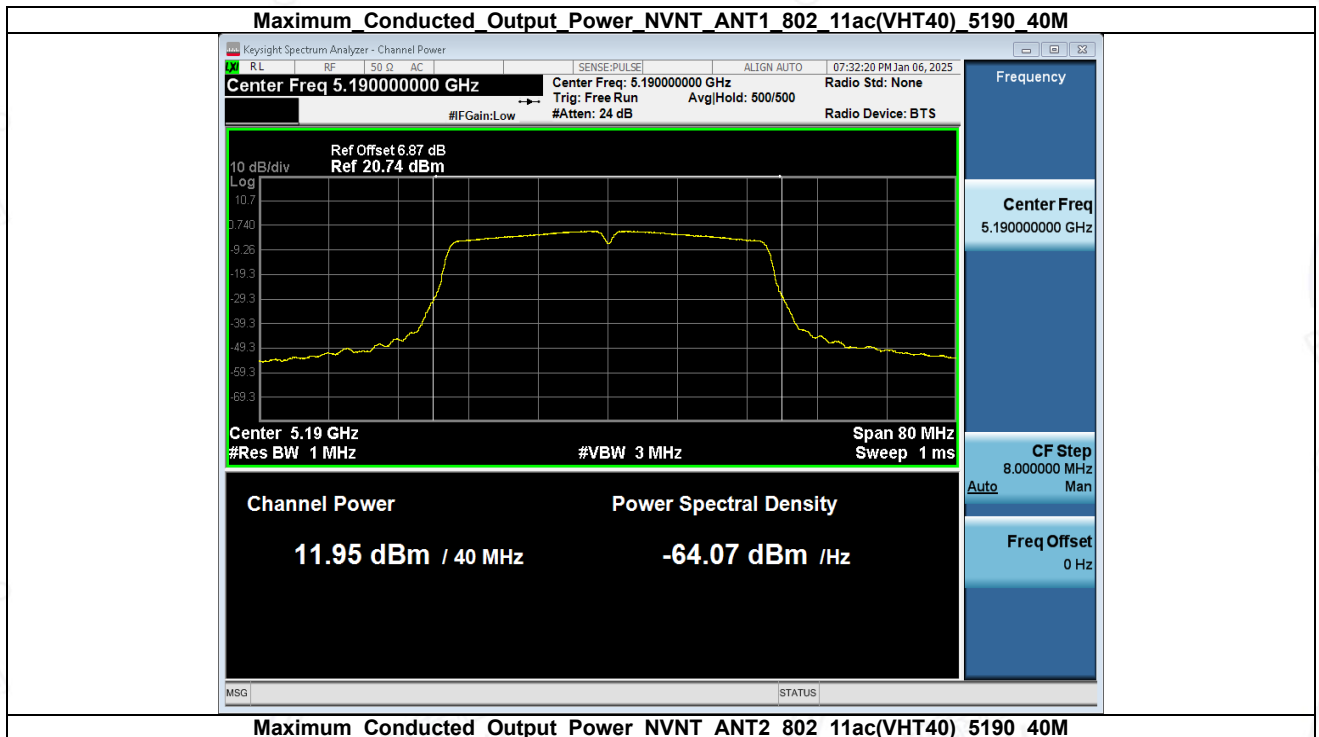
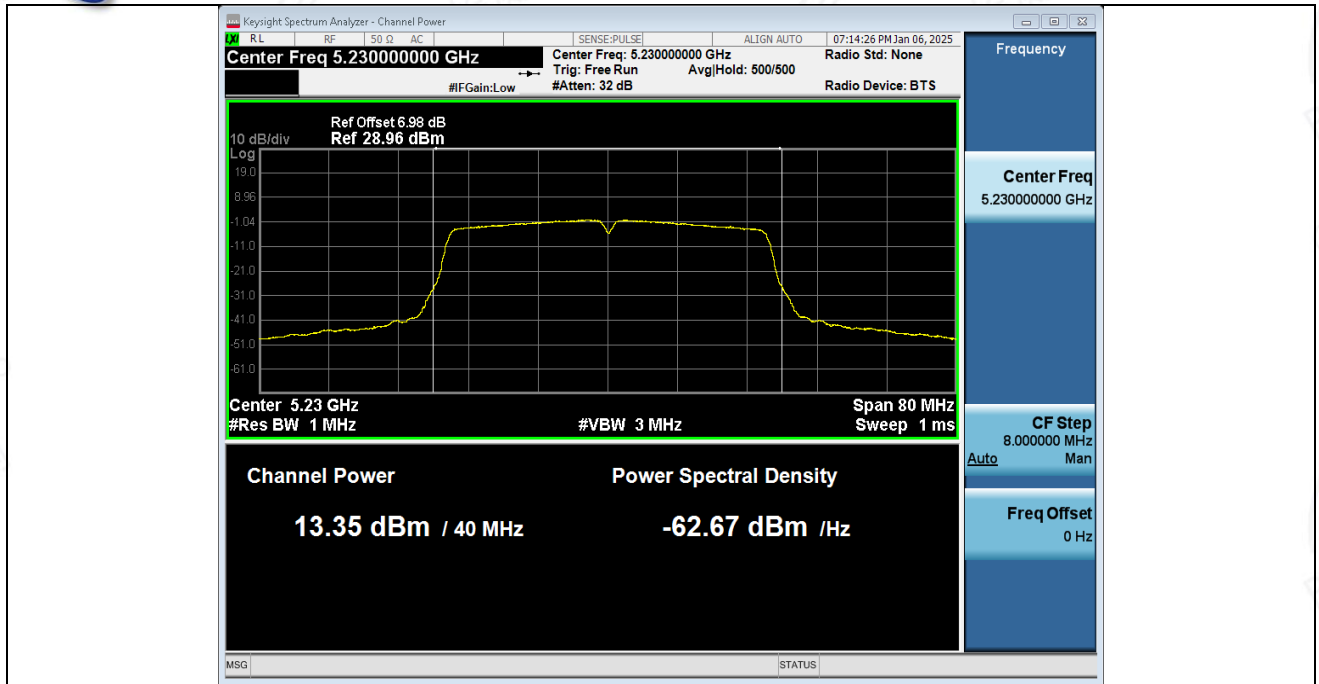


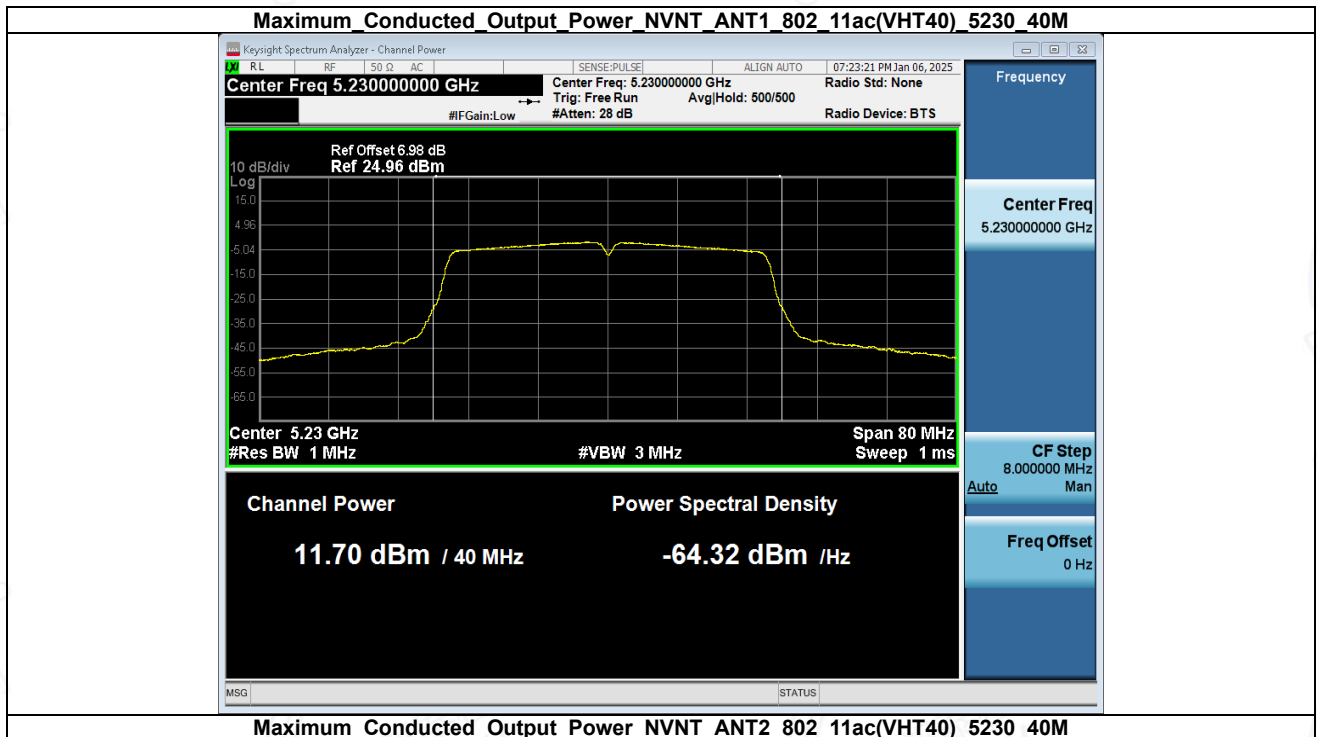
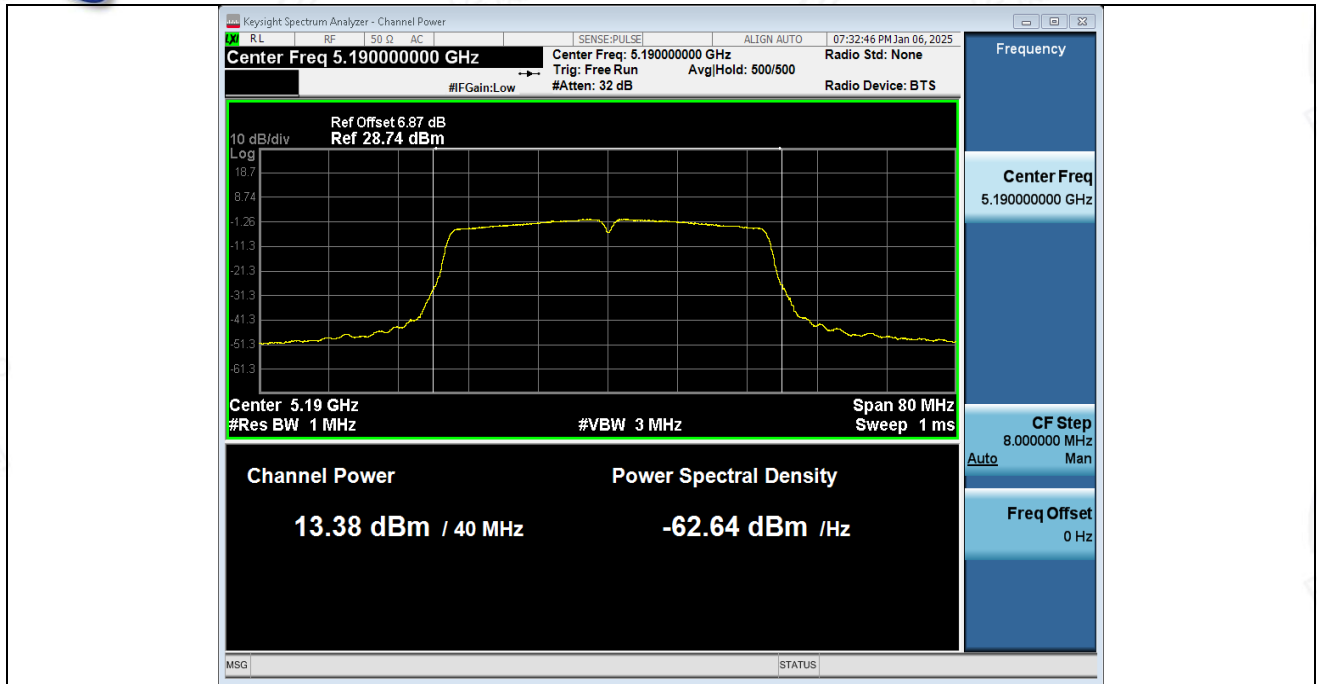


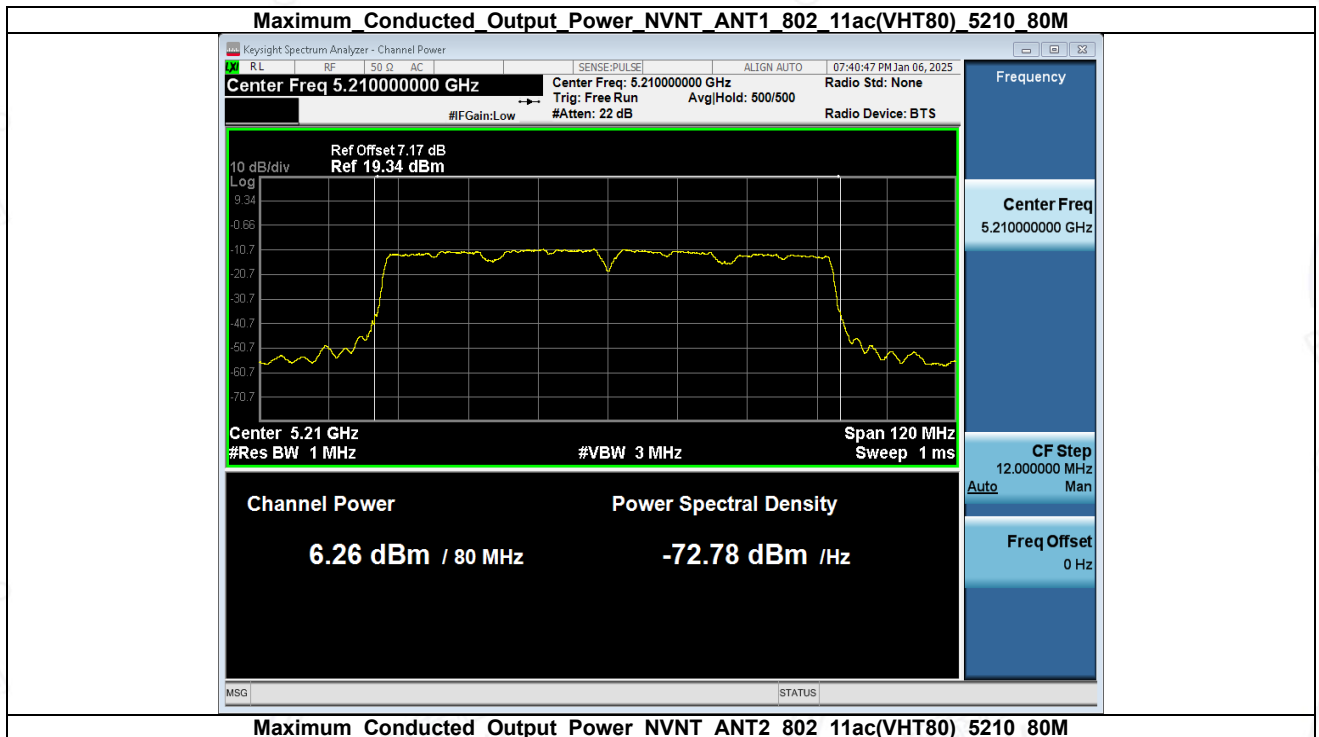
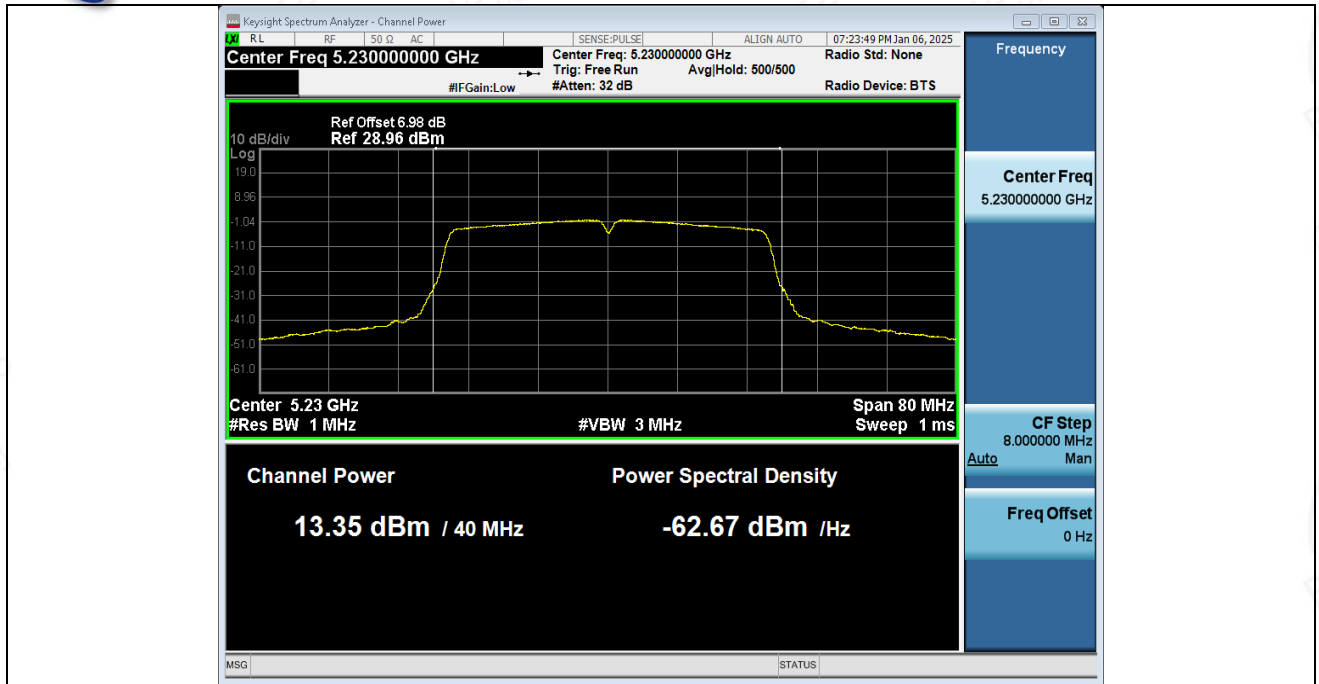


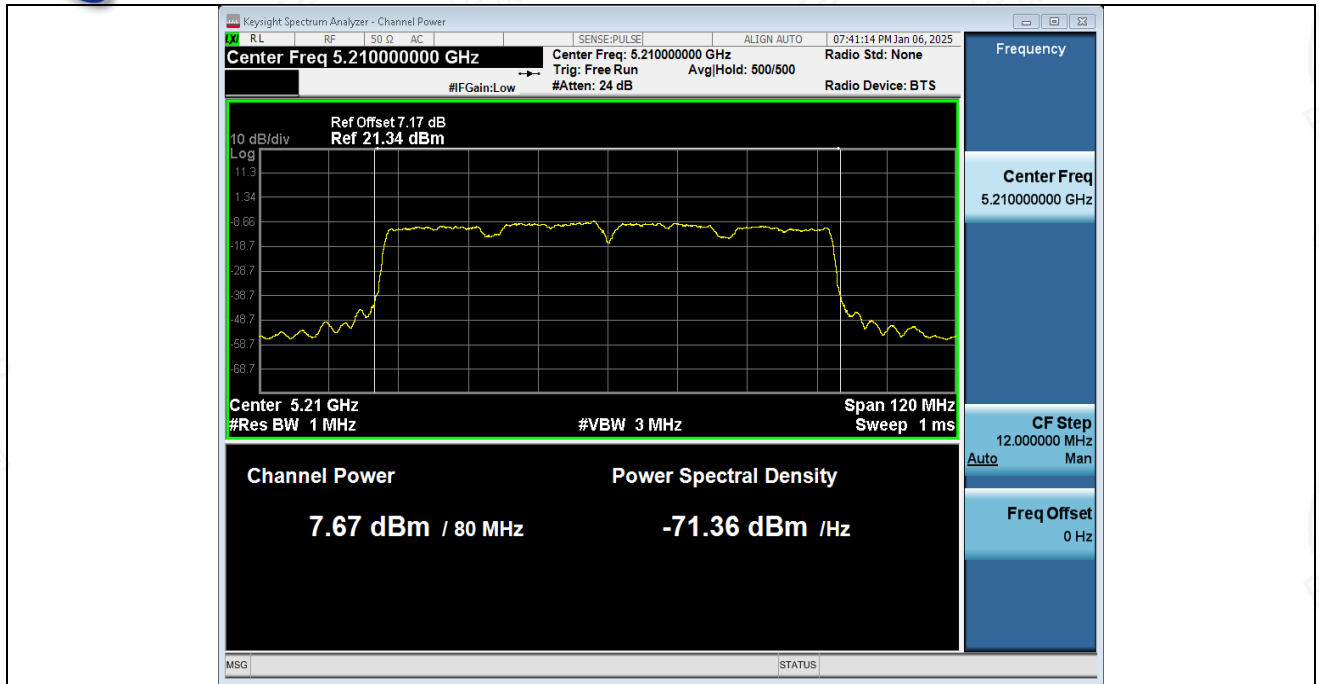












Condition	Antenna	Mode	Frequency(MHz)	MIMO_Conducted_Power(dBm)	Limit(dBm)	Result
NVNT	MIMO_TX	802.11n(HT20)	5180.00	15.36	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5200.00	15.82	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5240.00	15.43	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5180.00	15.68	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5200.00	16.06	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5240.00	15.52	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5190.00	16.23	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5230.00	15.91	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5190.00	16.12	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5230.00	15.87	30	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5210.00	13.04	30	Pass



4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-1.15	0.12	-1.03	11	Pass
NVNT	ANT2	802.11a	5180.00	-0.02	0.18	0.16	11	Pass
NVNT	ANT1	802.11a	5200.00	-0.33	0.12	-0.21	11	Pass
NVNT	ANT2	802.11a	5200.00	0.61	0.18	0.79	11	Pass
NVNT	ANT1	802.11a	5240.00	-1.13	0.12	-1.01	11	Pass
NVNT	ANT2	802.11a	5240.00	0.40	0.18	0.58	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-1.94	0.20	-1.74	11	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	-0.60	0.13	-0.47	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-1.74	0.20	-1.54	11	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	-0.63	0.13	-0.50	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-2.79	0.20	-2.59	11	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	-0.27	0.13	-0.14	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-2.05	0.13	-1.92	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	-0.65	0.20	-0.45	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-1.69	0.20	-1.49	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	-0.30	0.13	-0.17	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-2.30	0.13	-2.17	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	-1.08	0.20	-0.89	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-6.66	0.39	-6.27	11	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	-4.26	0.39	-3.87	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-7.13	0.39	-6.75	11	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	-4.58	0.26	-4.33	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-6.48	0.39	-6.09	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	-4.70	0.39	-4.31	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-6.81	0.26	-6.55	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	-5.70	0.26	-5.44	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-29.48	3.01	-26.47	11	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	-28.70	3.01	-25.69	11	Pass

