

Appendix

Test Data

for BTEK241108034A01E04

Start date	2025/1/7	Finish date	2025/1/7
Temperature	21.9℃	Humidity	42%
RF specifications	5.3G_WIFI	Test Engineer	Zora



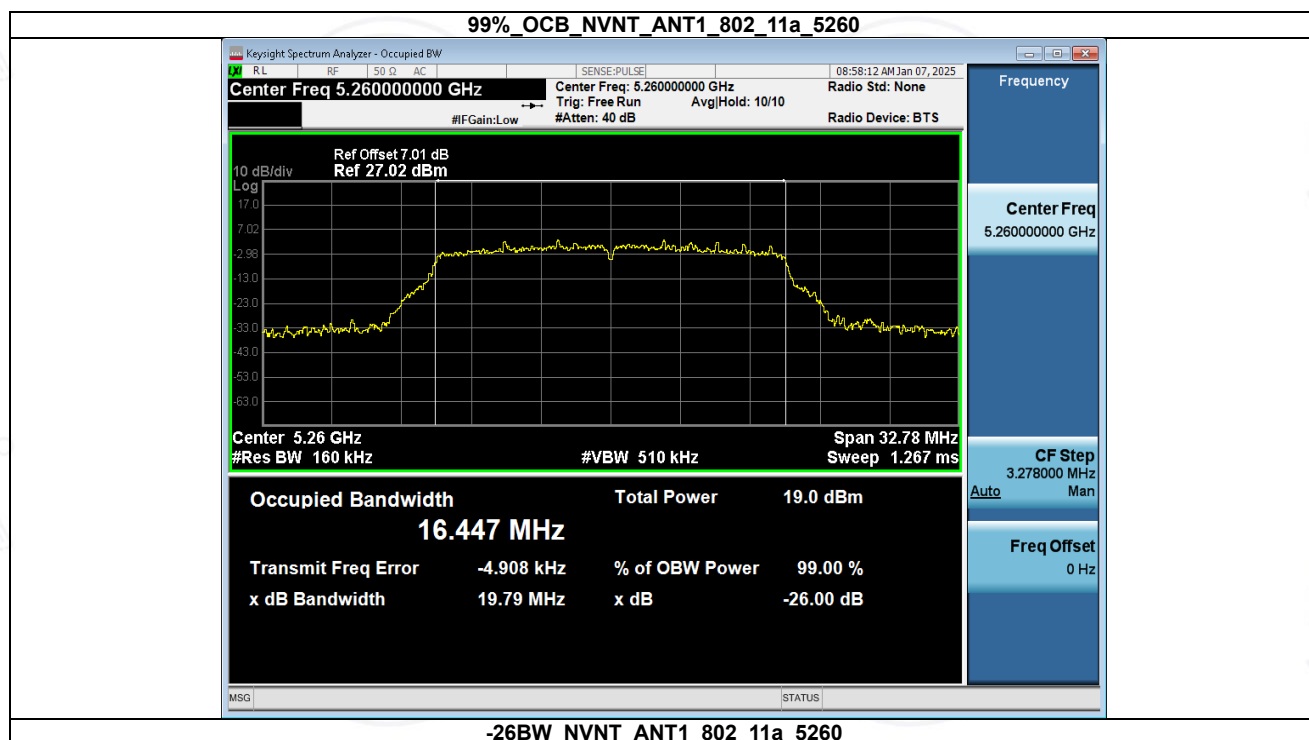
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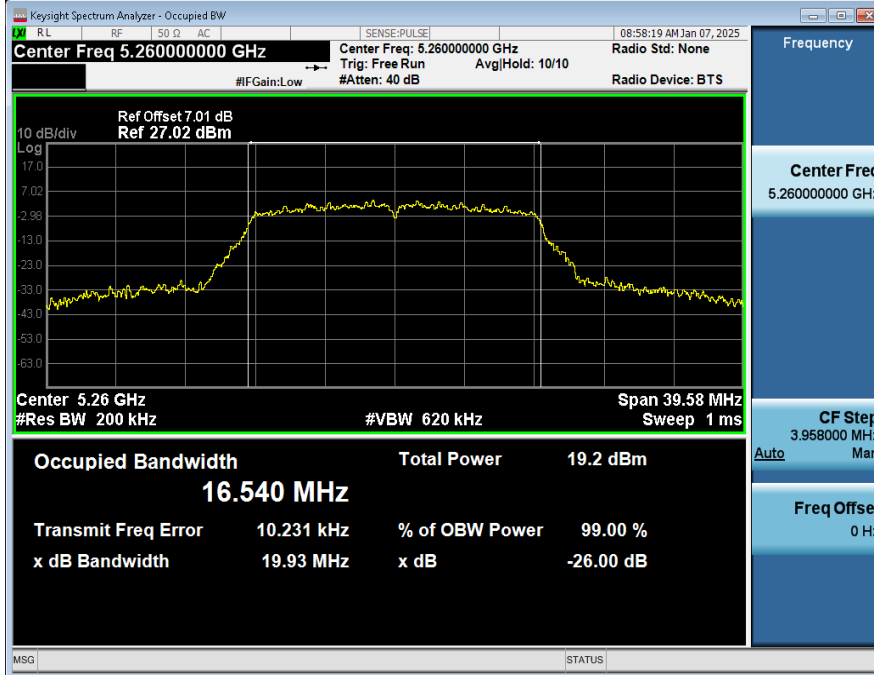
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5260.00	19.93	16.45
NVNT	ANT2	802.11a	5260.00	19.89	16.37
NVNT	ANT1	802.11a	5300.00	19.96	16.47
NVNT	ANT2	802.11a	5300.00	19.92	16.37
NVNT	ANT1	802.11a	5320.00	19.83	16.42
NVNT	ANT2	802.11a	5320.00	19.81	16.35
NVNT	ANT1	802.11n(HT20)	5260.00	20.05	17.55
NVNT	ANT2	802.11n(HT20)	5260.00	20.13	17.57
NVNT	ANT1	802.11n(HT20)	5300.00	20.08	17.59
NVNT	ANT2	802.11n(HT20)	5300.00	20.08	17.57
NVNT	ANT1	802.11n(HT20)	5320.00	20.06	17.54
NVNT	ANT2	802.11n(HT20)	5320.00	20.07	17.55
NVNT	ANT1	802.11ac(VHT20)	5260.00	19.99	17.59
NVNT	ANT2	802.11ac(VHT20)	5260.00	20.09	17.55
NVNT	ANT1	802.11ac(VHT20)	5300.00	20.04	17.56
NVNT	ANT2	802.11ac(VHT20)	5300.00	20.07	17.55
NVNT	ANT1	802.11ac(VHT20)	5320.00	20.23	17.54
NVNT	ANT2	802.11ac(VHT20)	5320.00	20.21	17.54
NVNT	ANT1	802.11n(HT40)	5270.00	40.26	36.01
NVNT	ANT2	802.11n(HT40)	5270.00	39.70	36.07
NVNT	ANT1	802.11n(HT40)	5310.00	40.16	36.00
NVNT	ANT2	802.11n(HT40)	5310.00	39.48	36.06
NVNT	ANT1	802.11ac(VHT40)	5270.00	40.41	36.00
NVNT	ANT2	802.11ac(VHT40)	5270.00	39.72	36.07
NVNT	ANT1	802.11ac(VHT40)	5310.00	40.48	35.99
NVNT	ANT2	802.11ac(VHT40)	5310.00	39.63	36.05
NVNT	ANT1	802.11ac(VHT80)	5290.00	81.67	76.01
NVNT	ANT2	802.11ac(VHT80)	5290.00	80.54	75.73

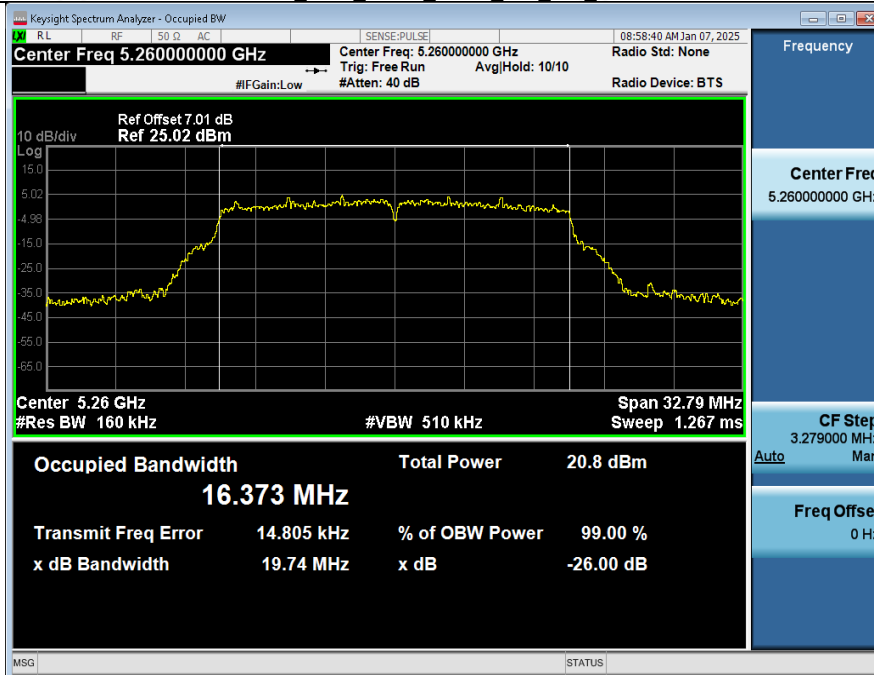


-26BW_NVNT_ANT1_802_11a_5260



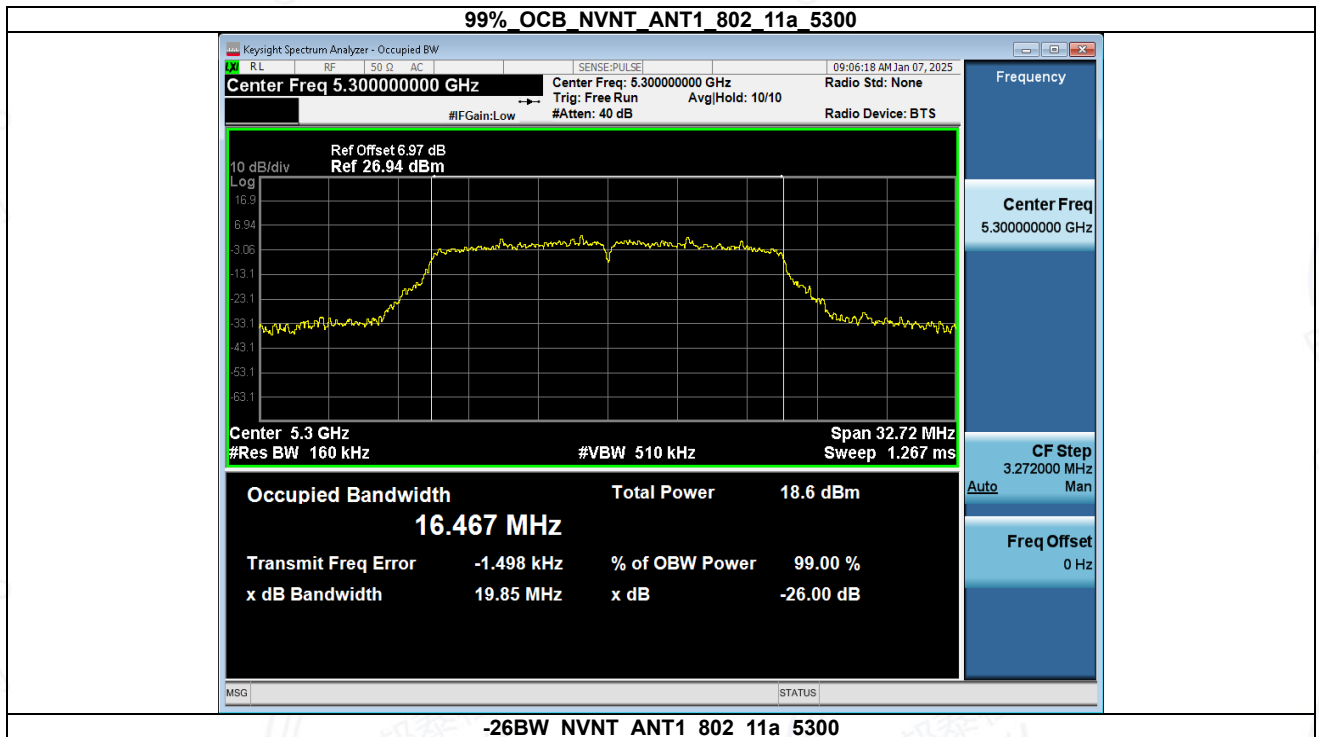


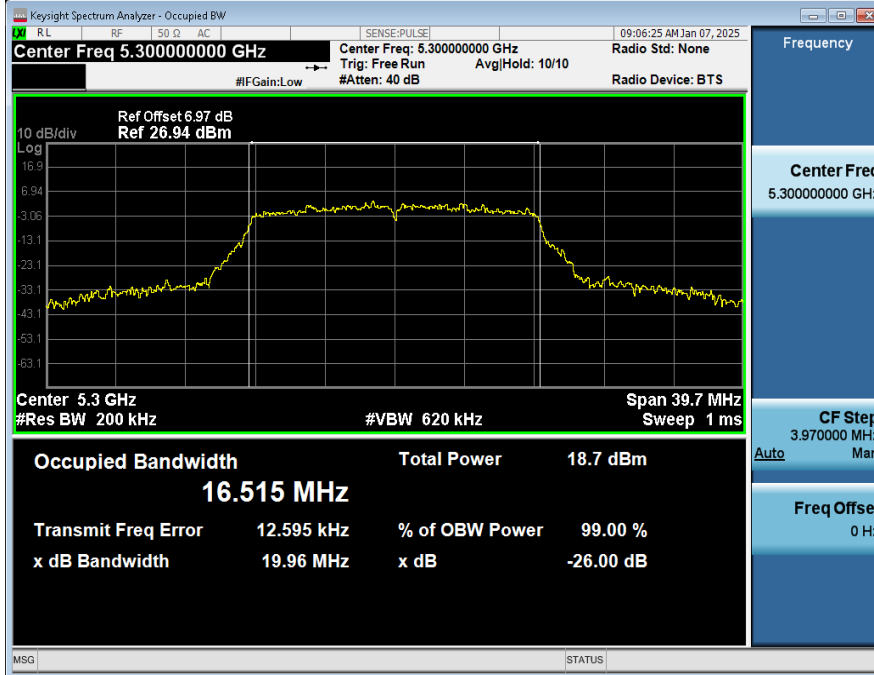
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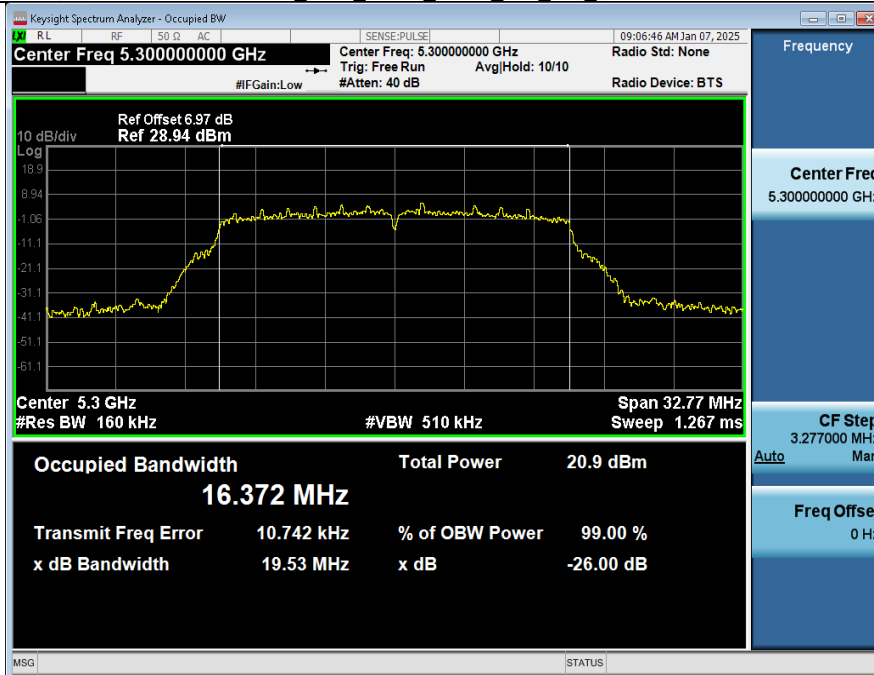
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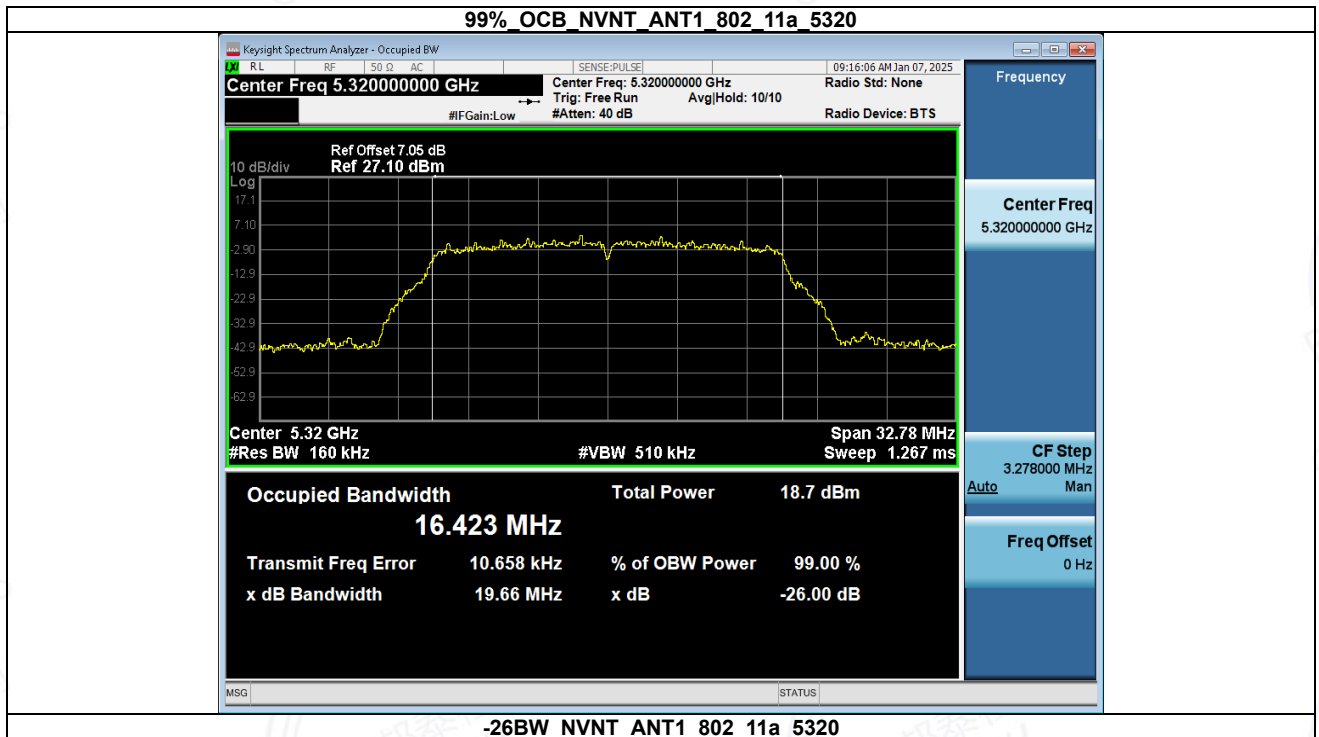


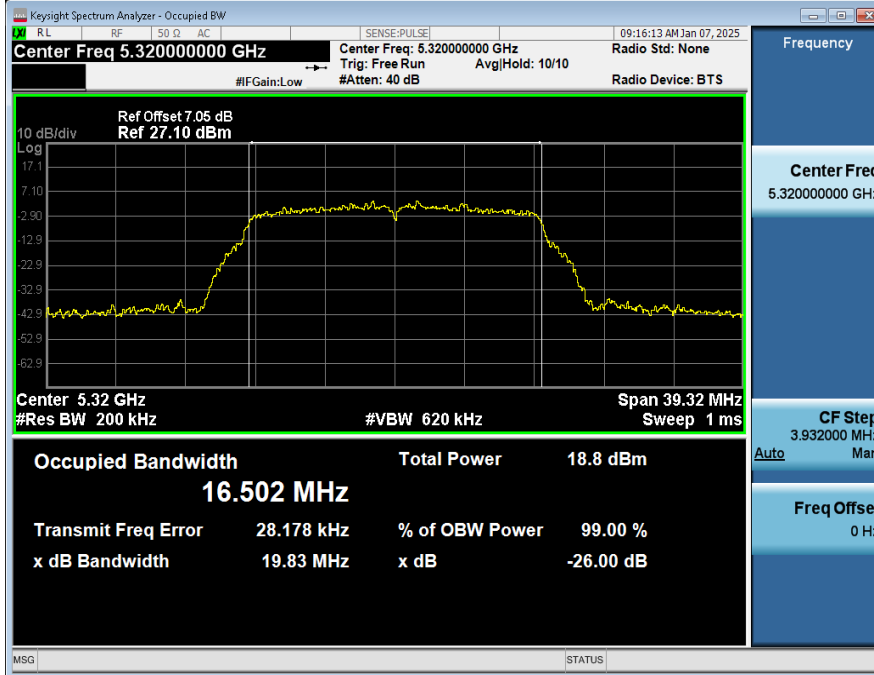
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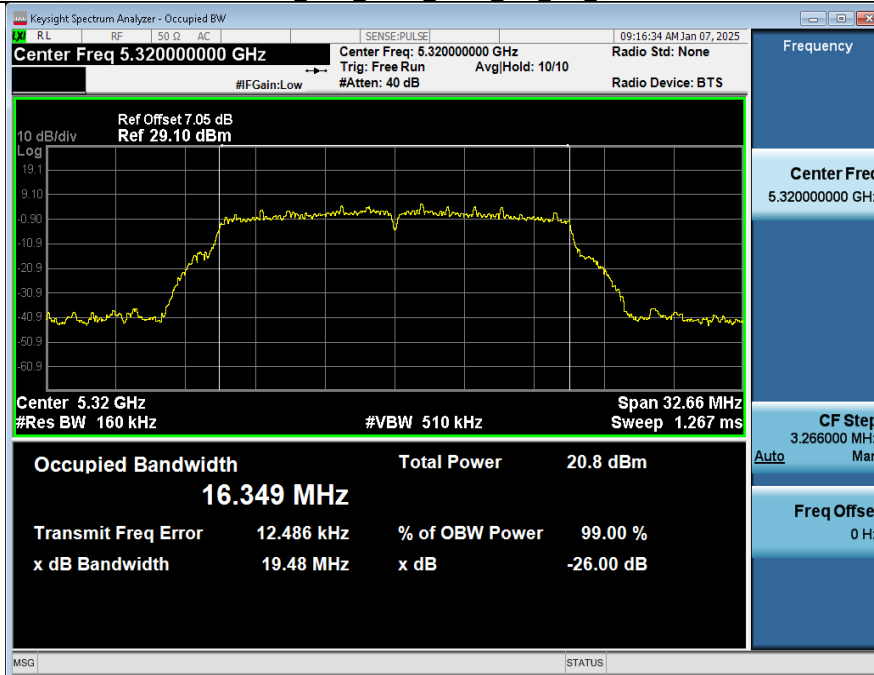
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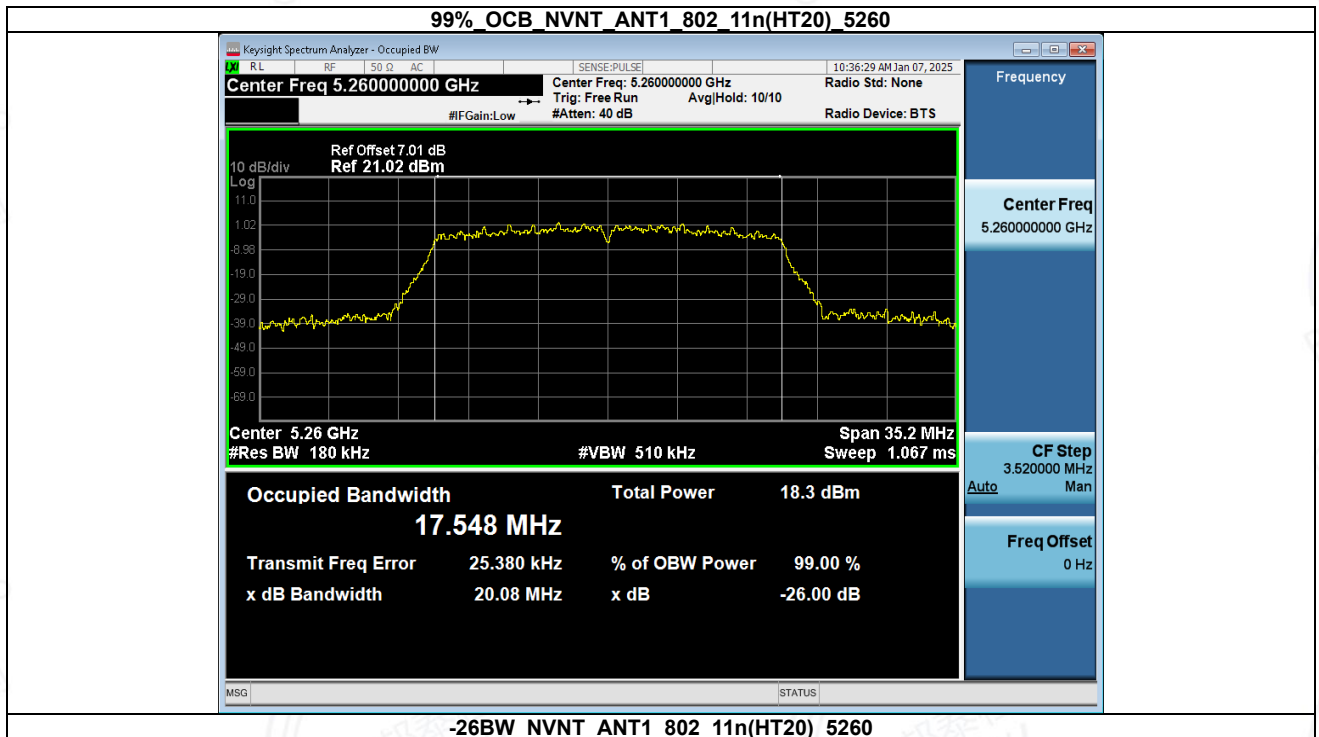
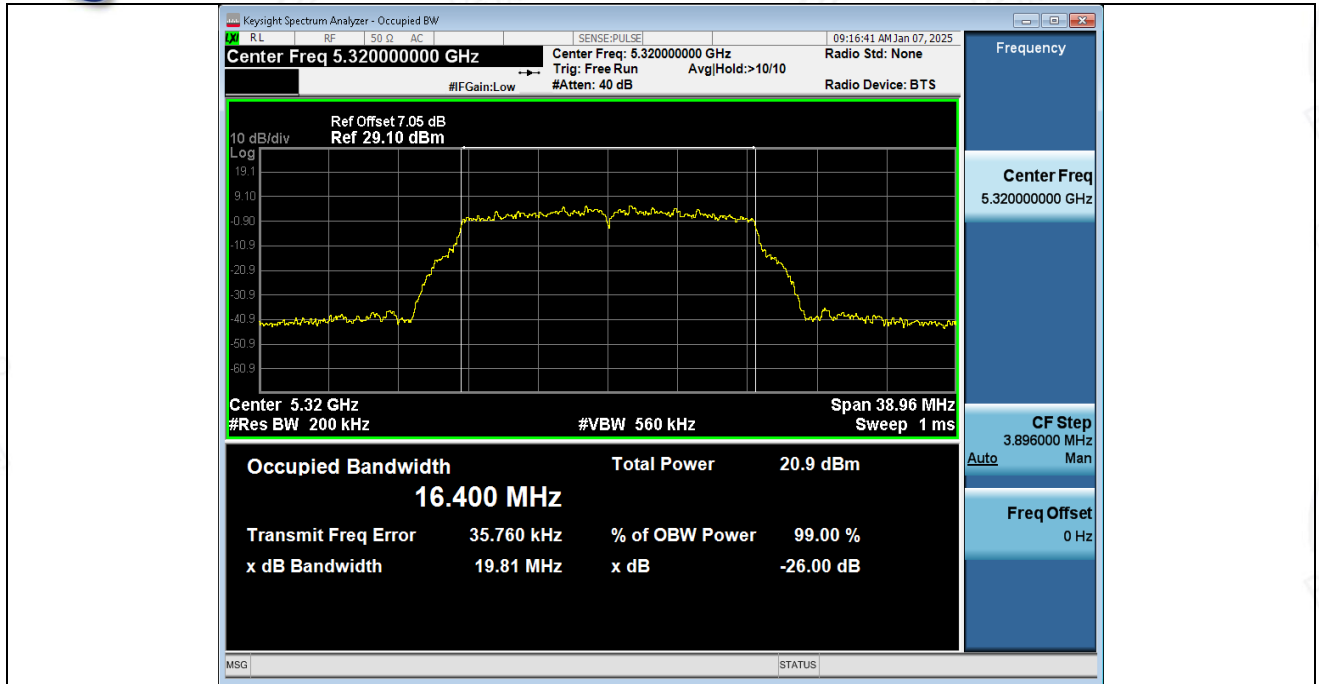


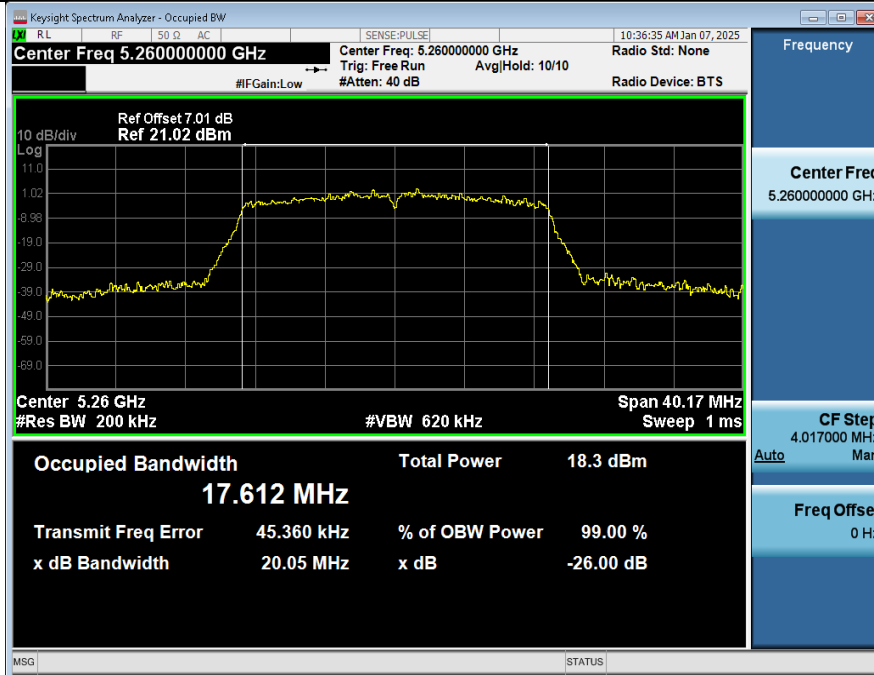
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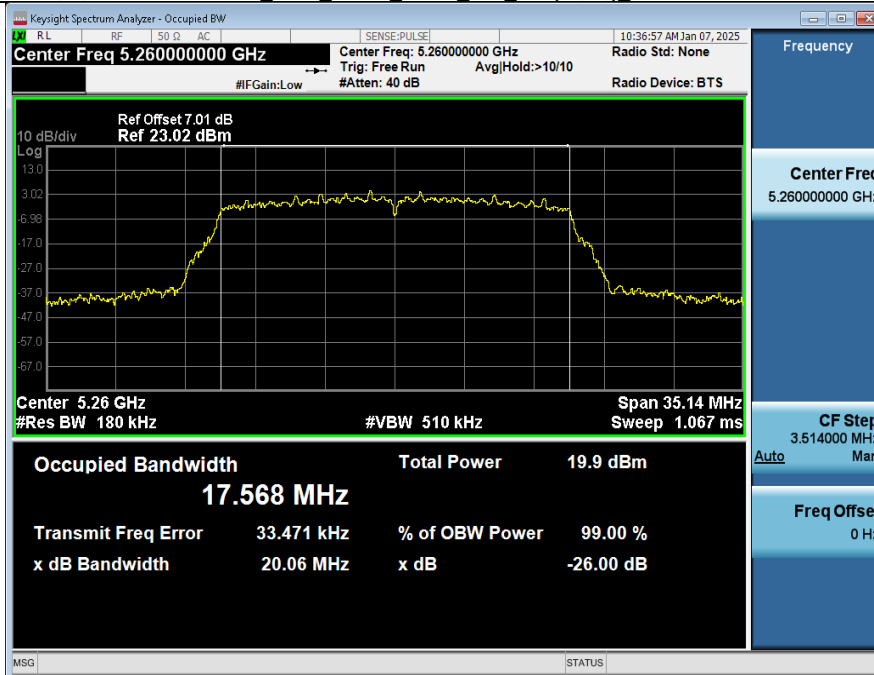
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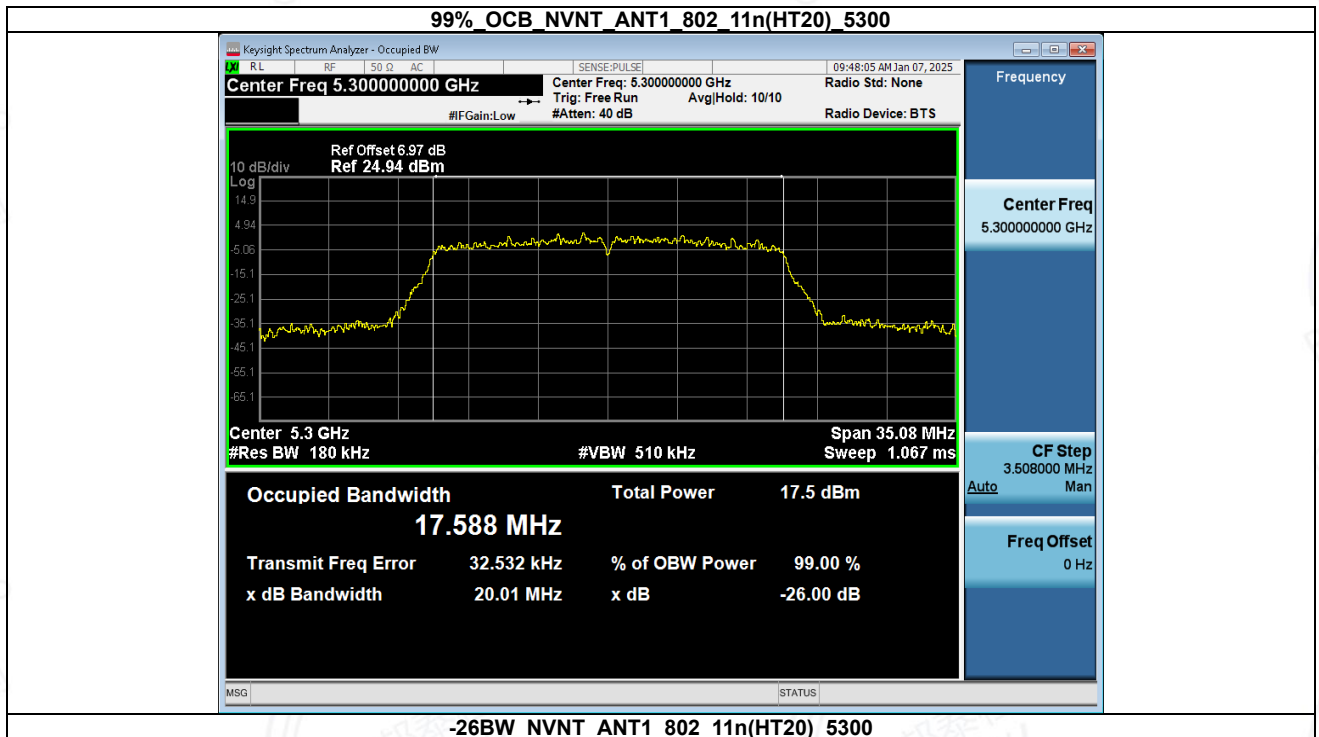


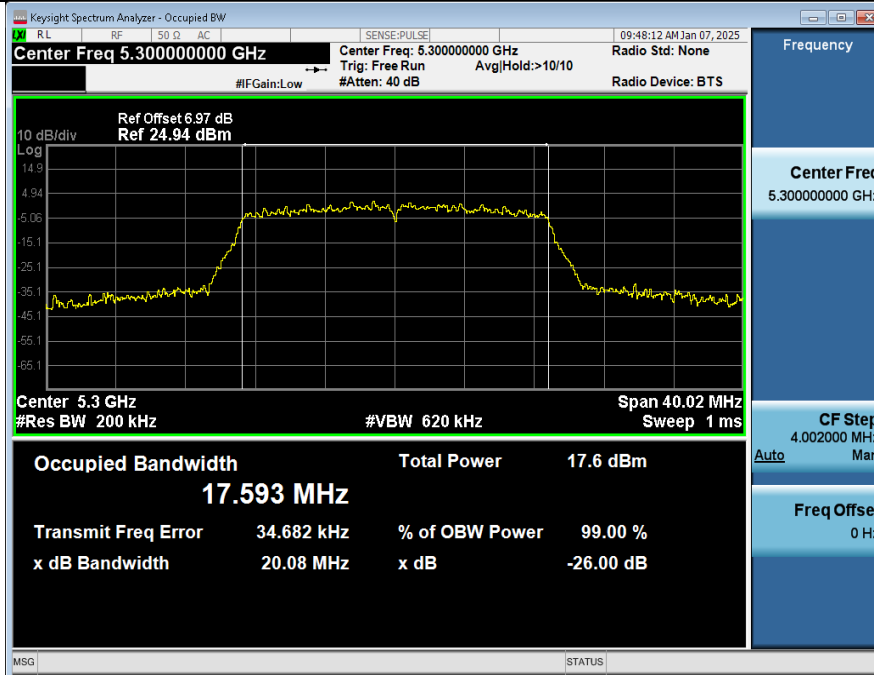
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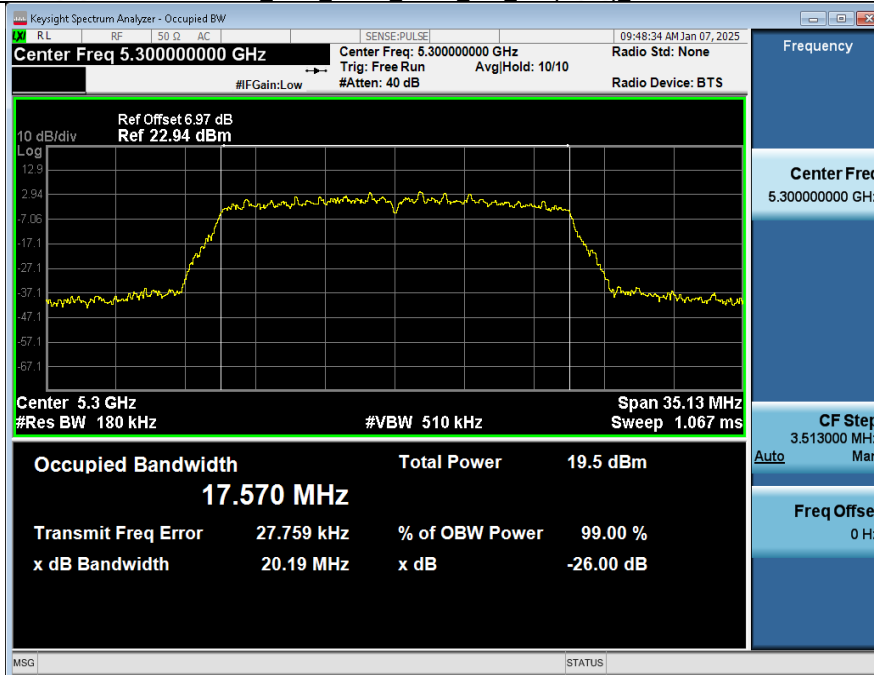
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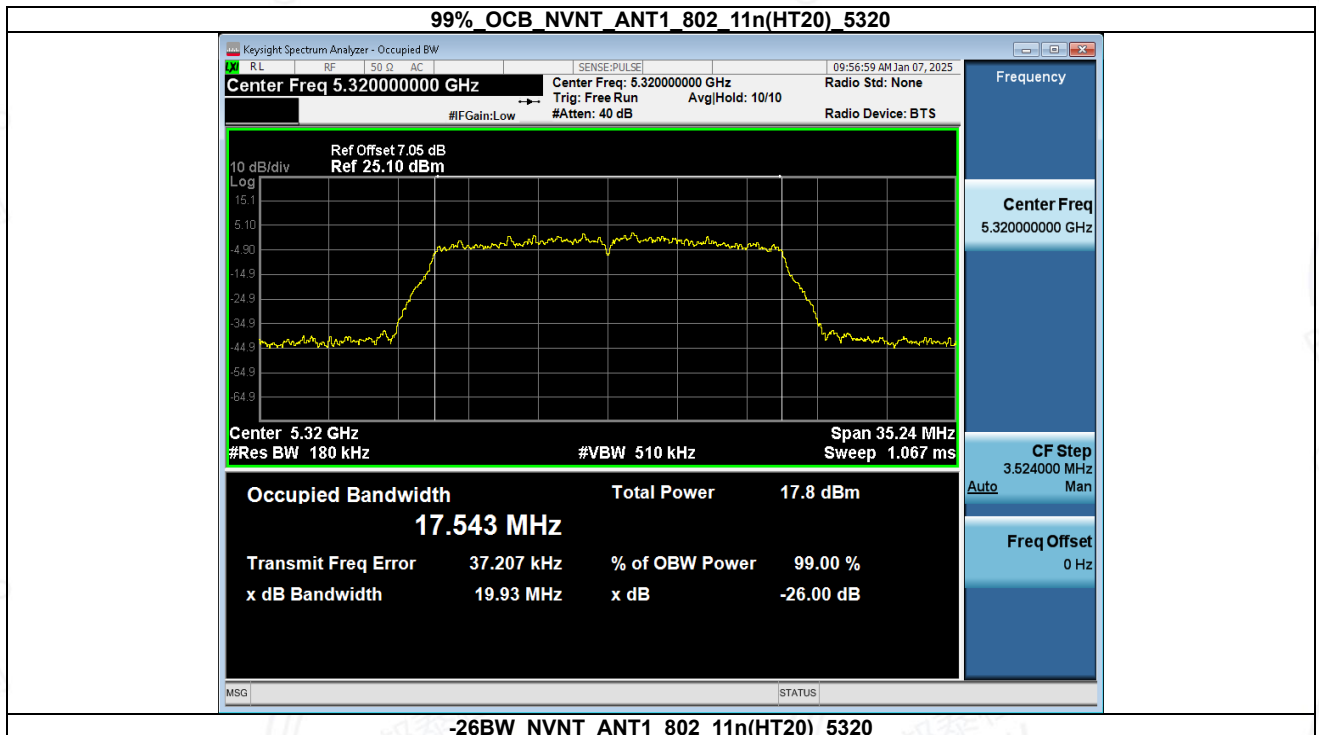
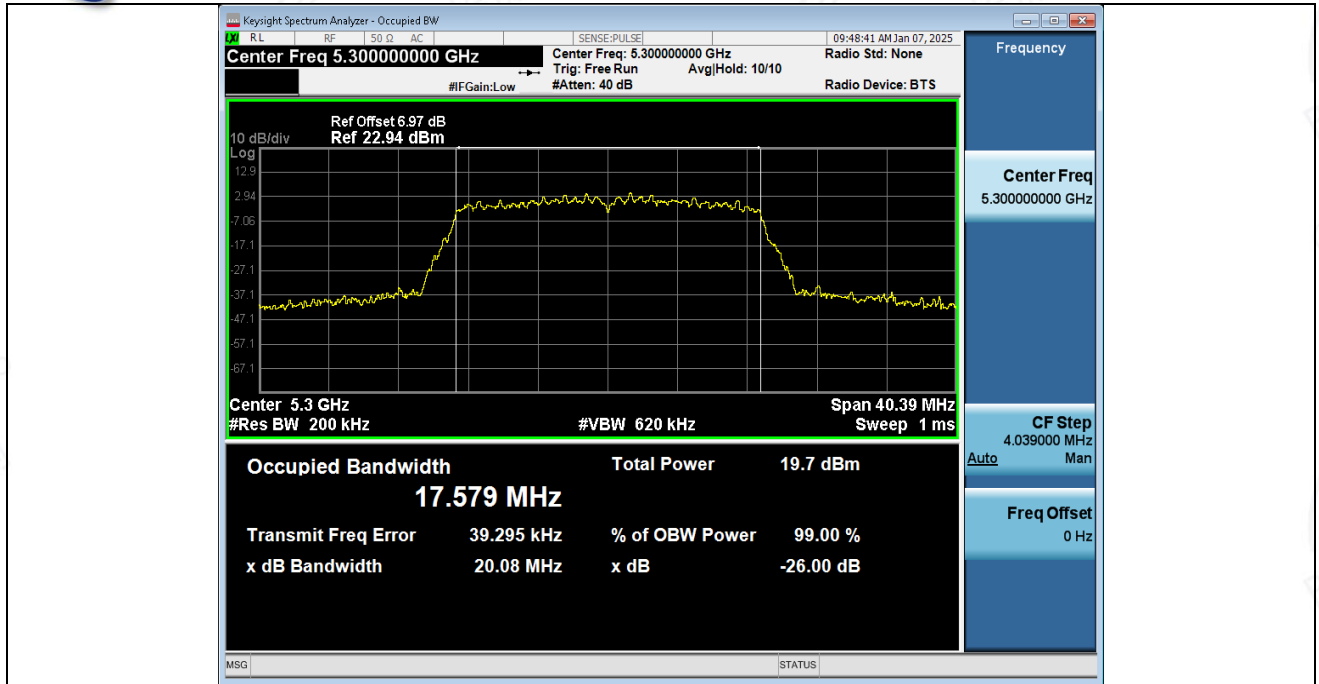


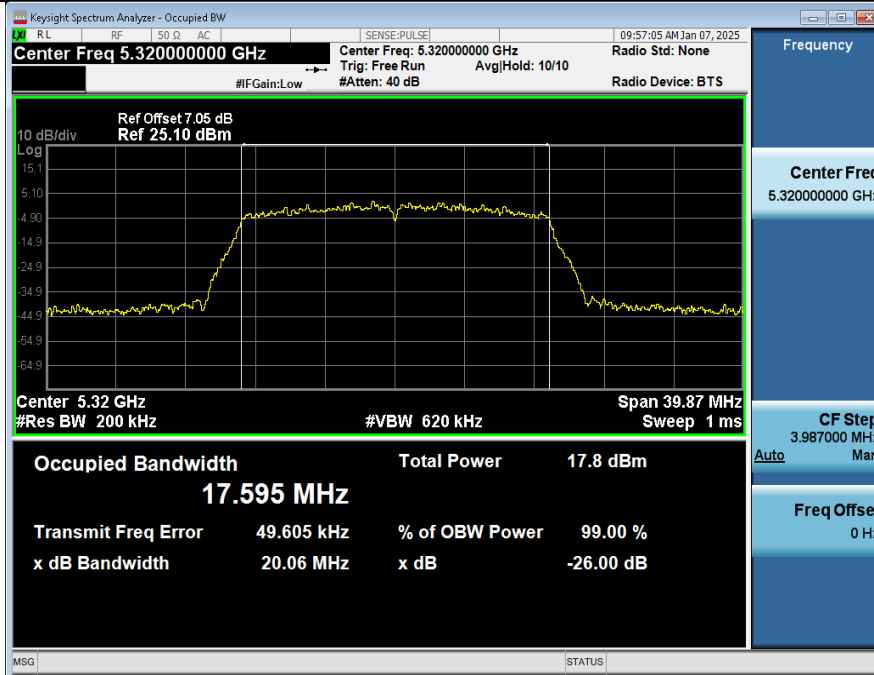
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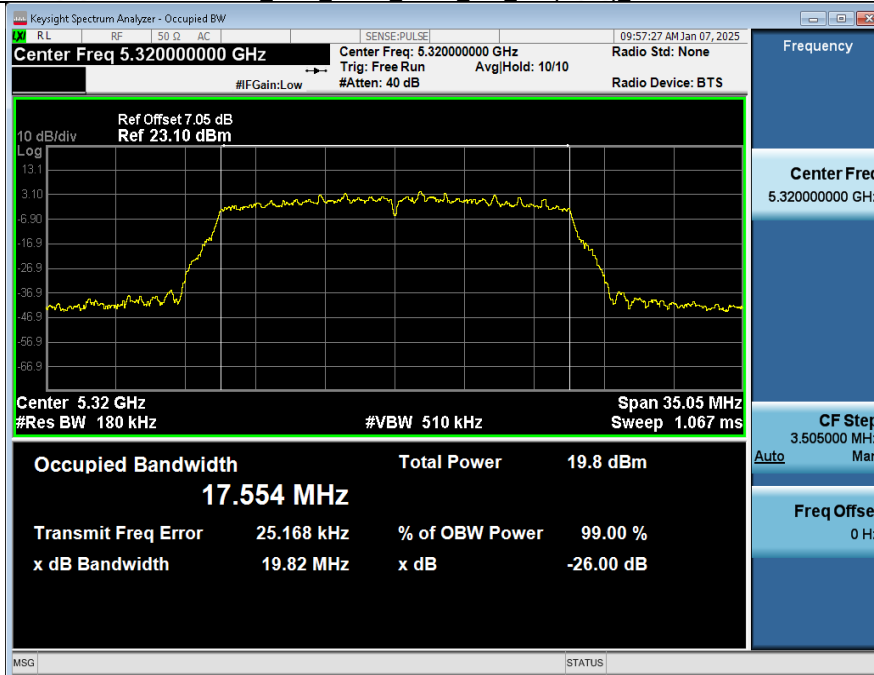
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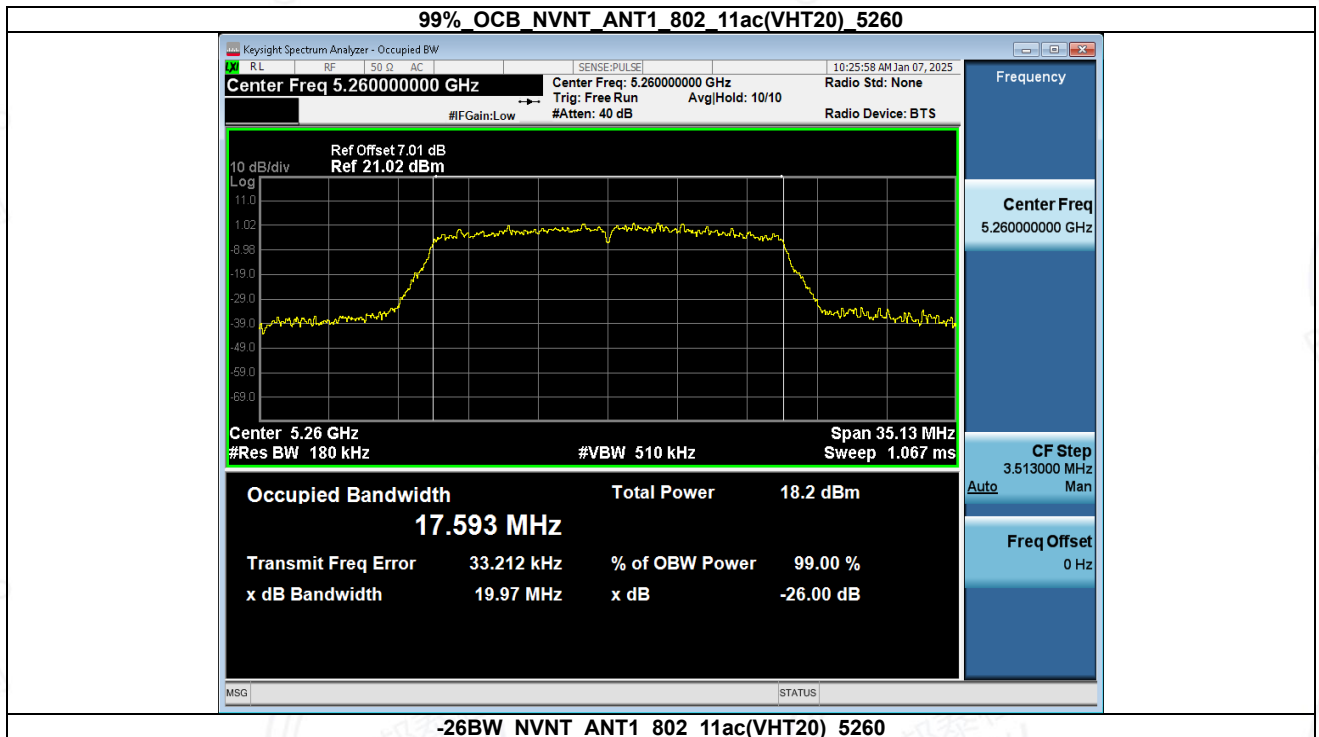
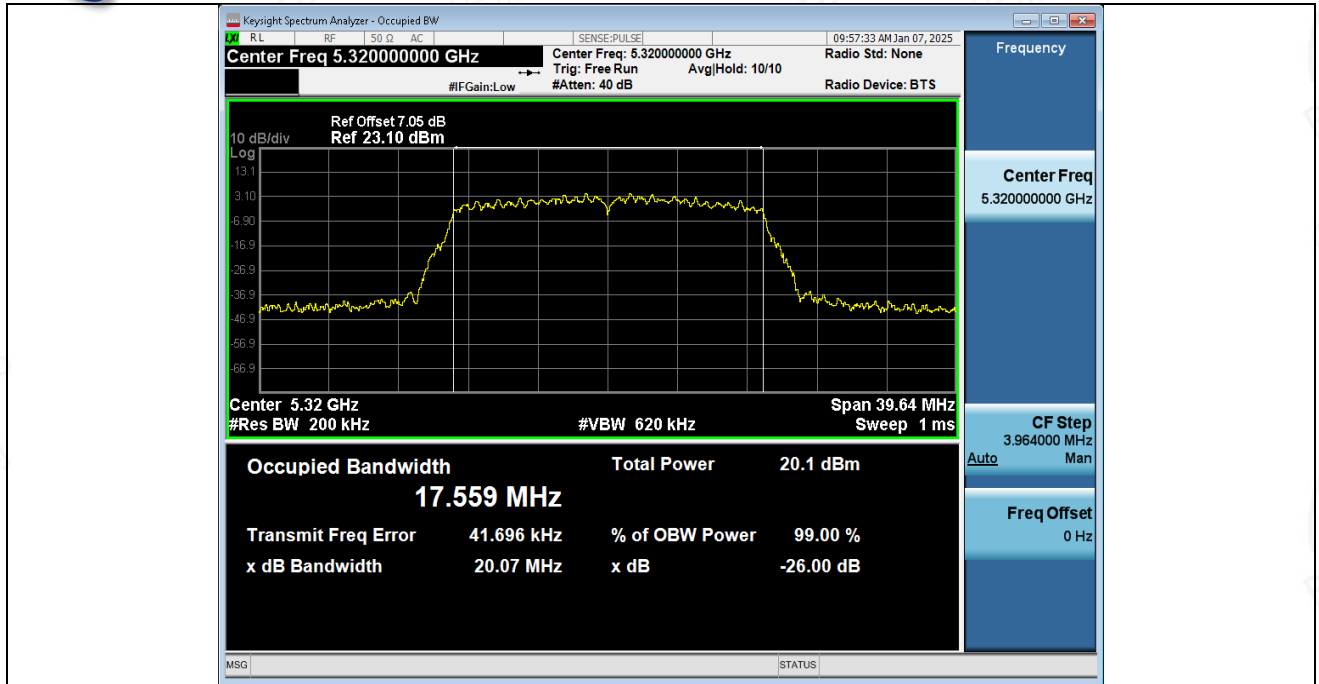


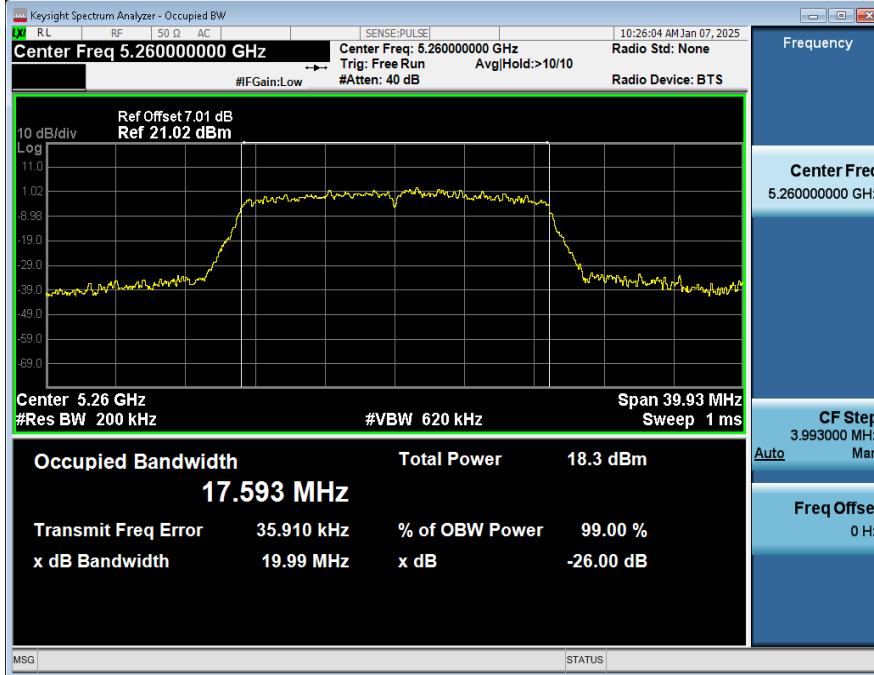
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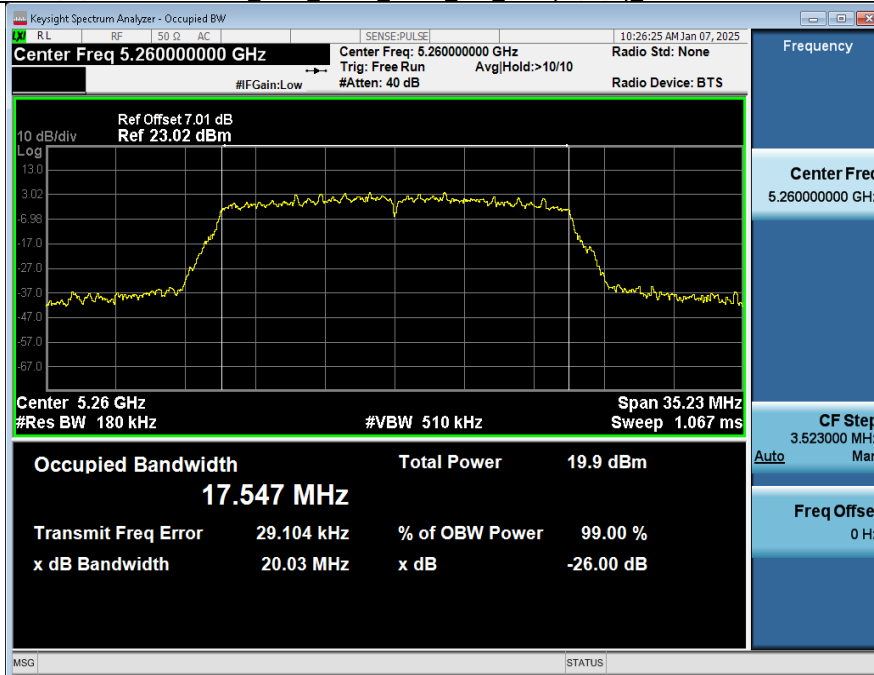
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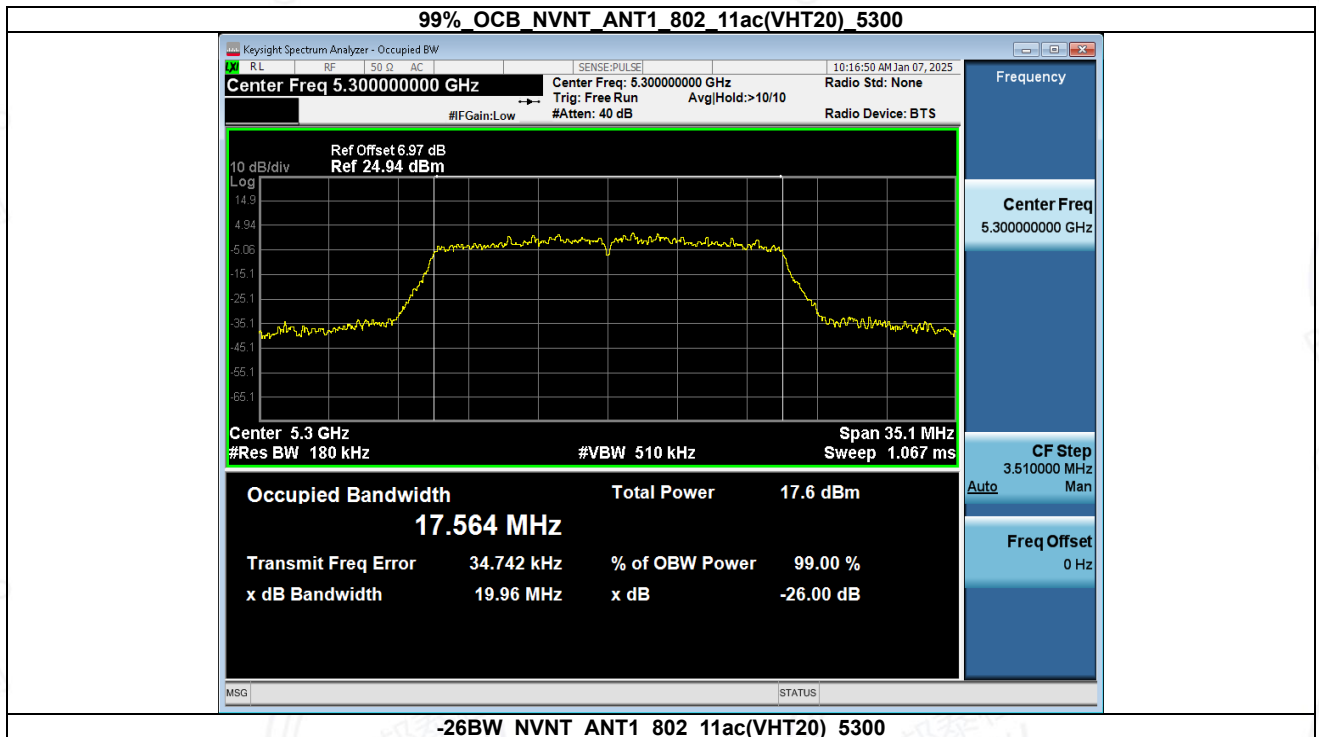
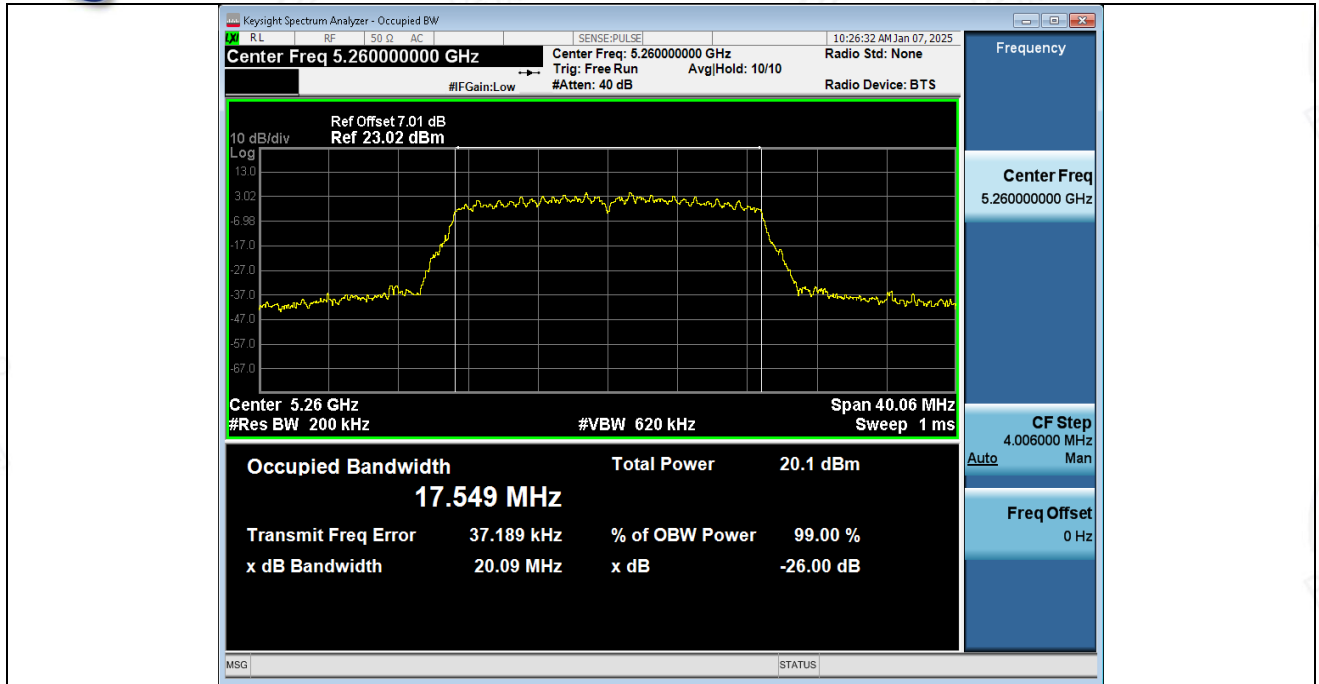


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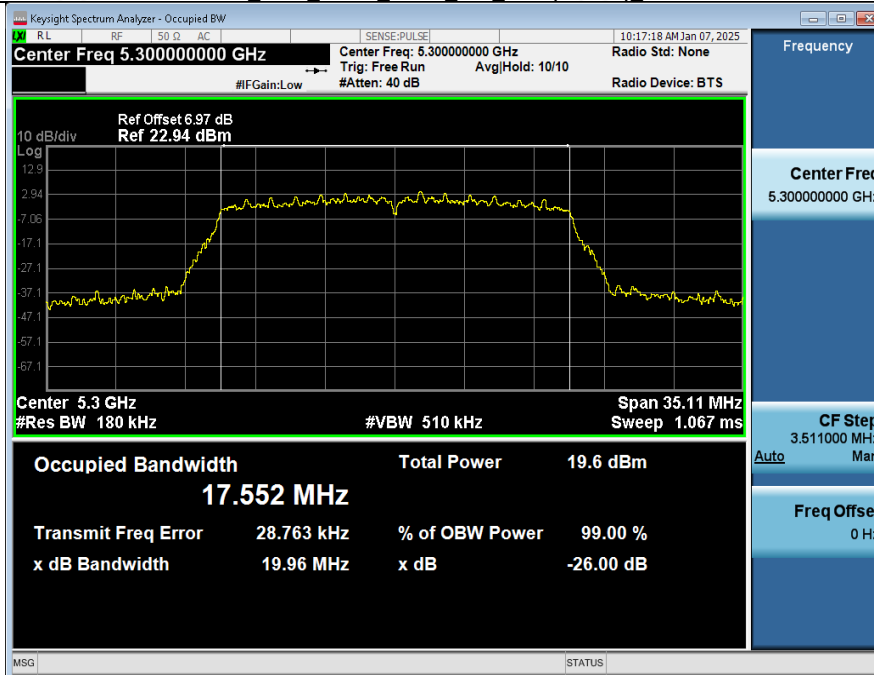
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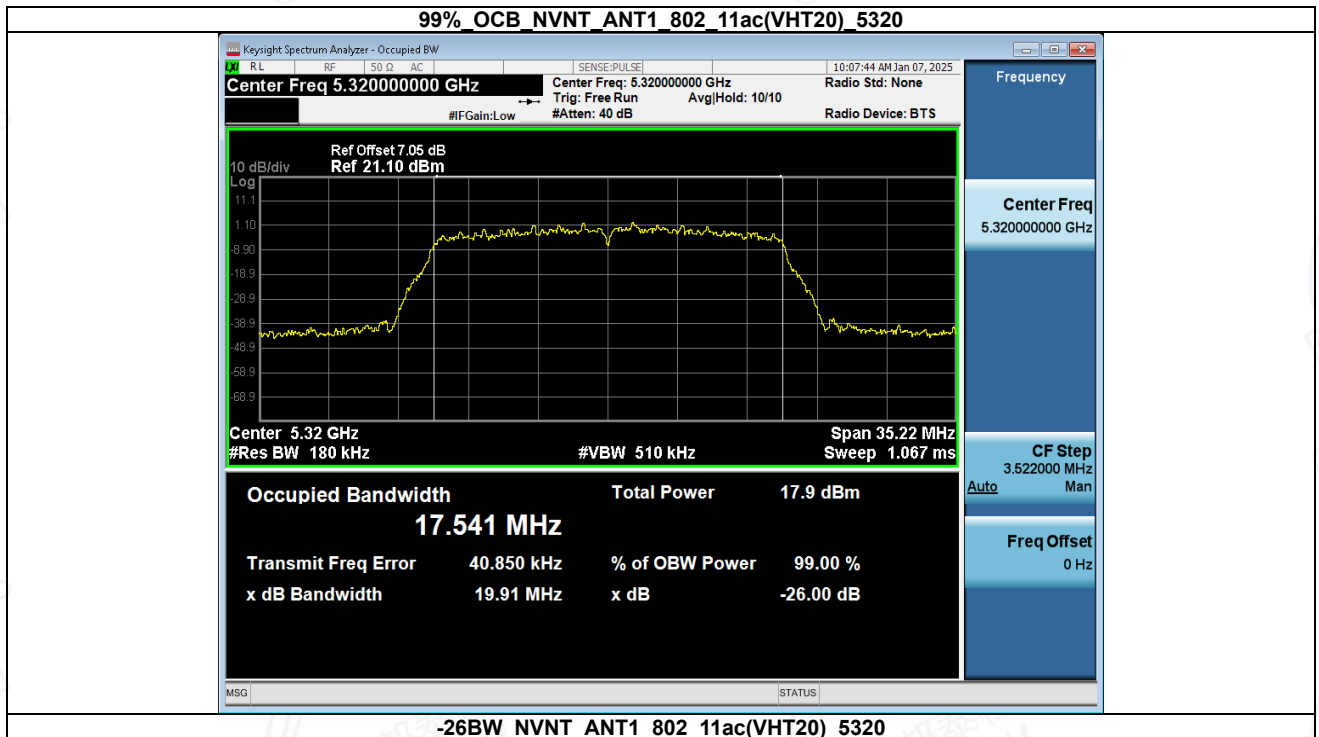
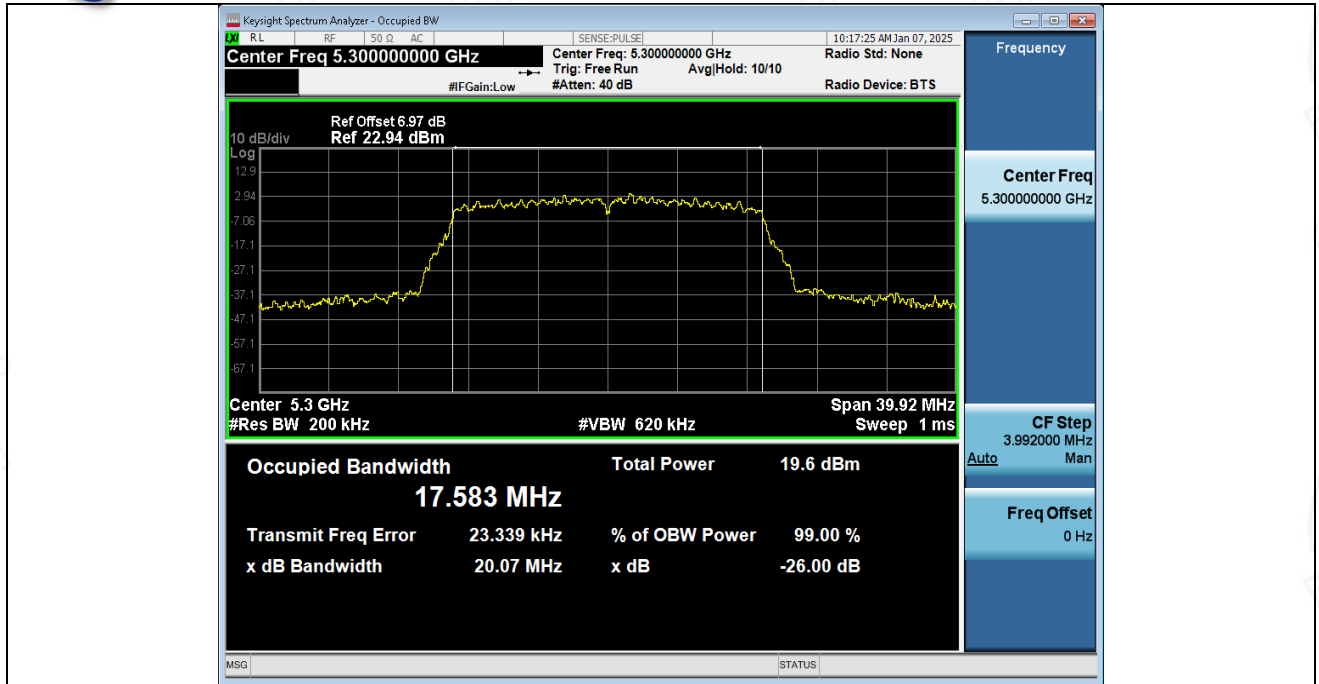


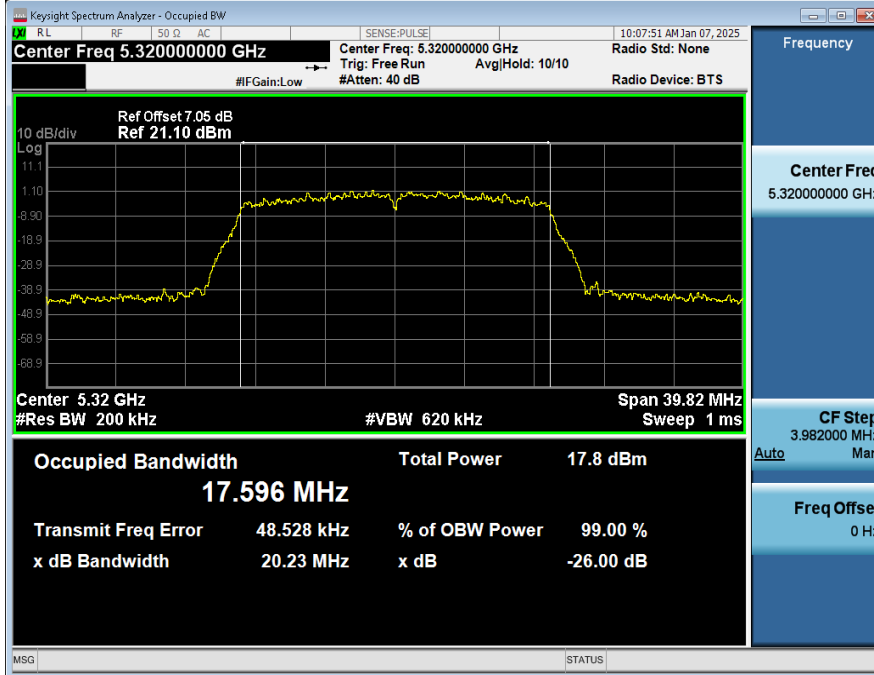
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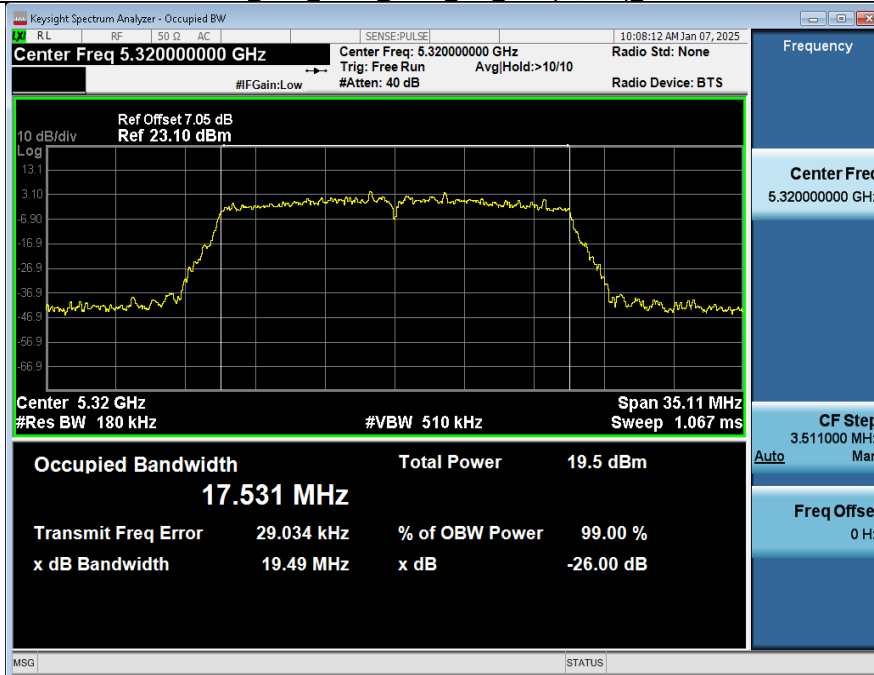
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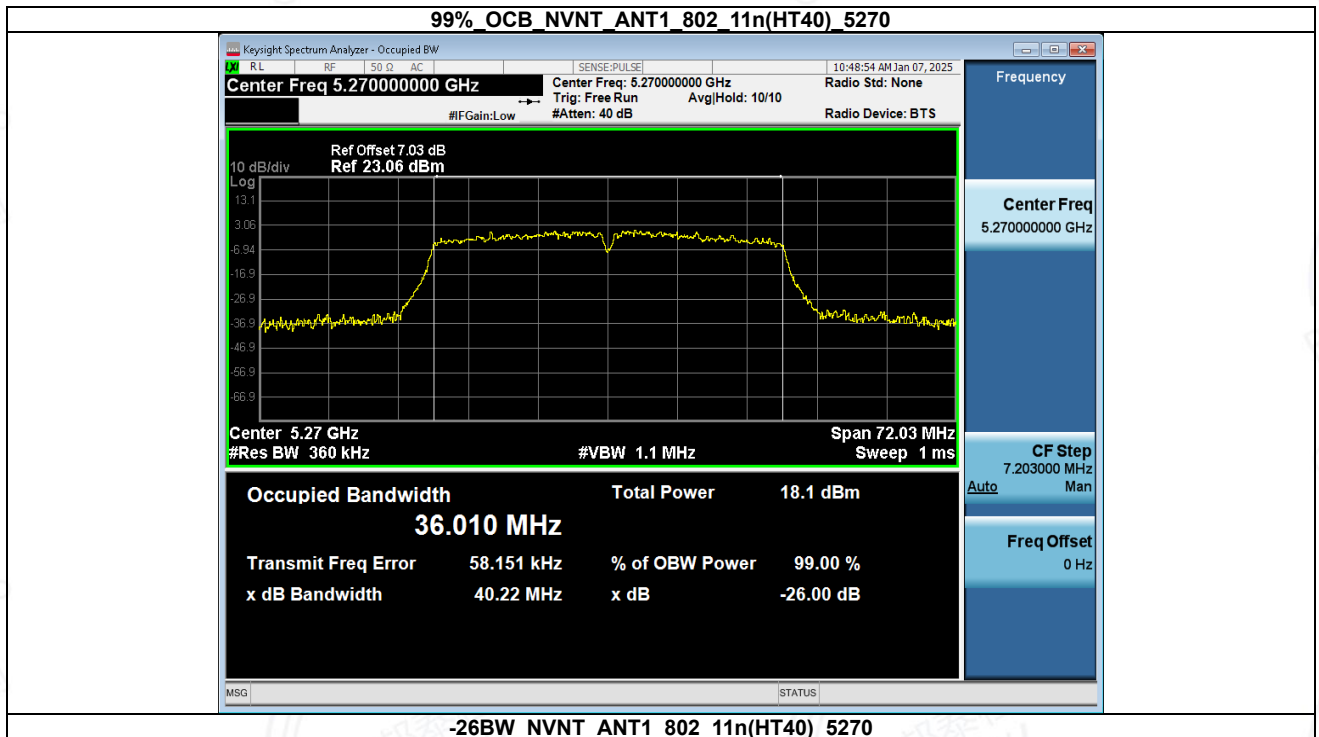
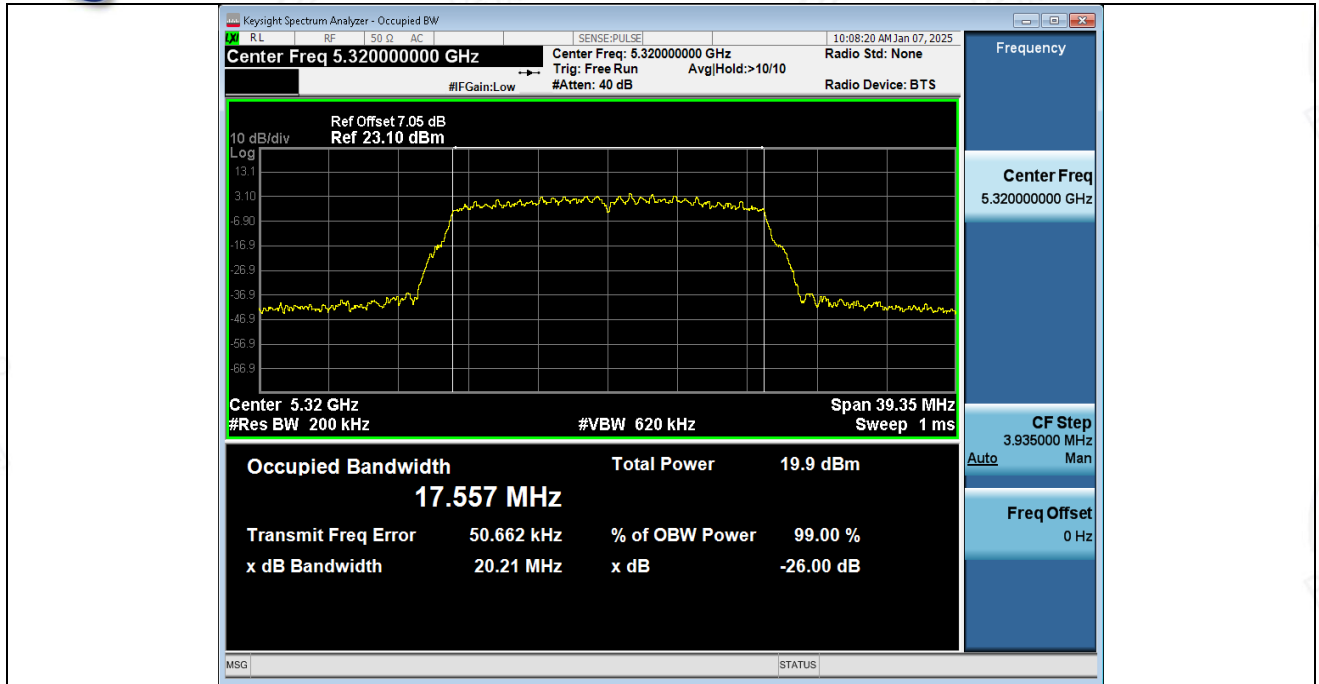


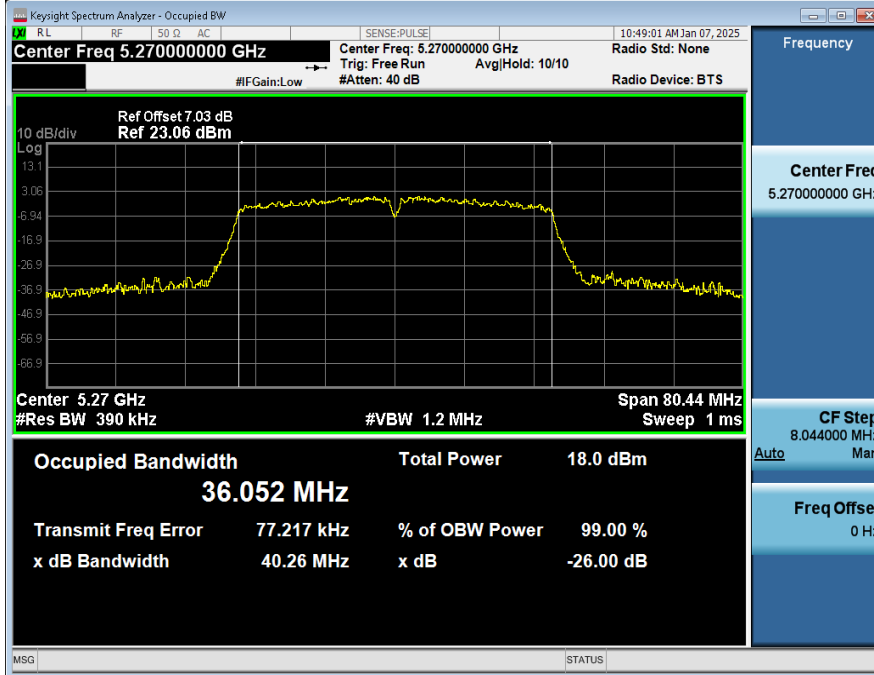
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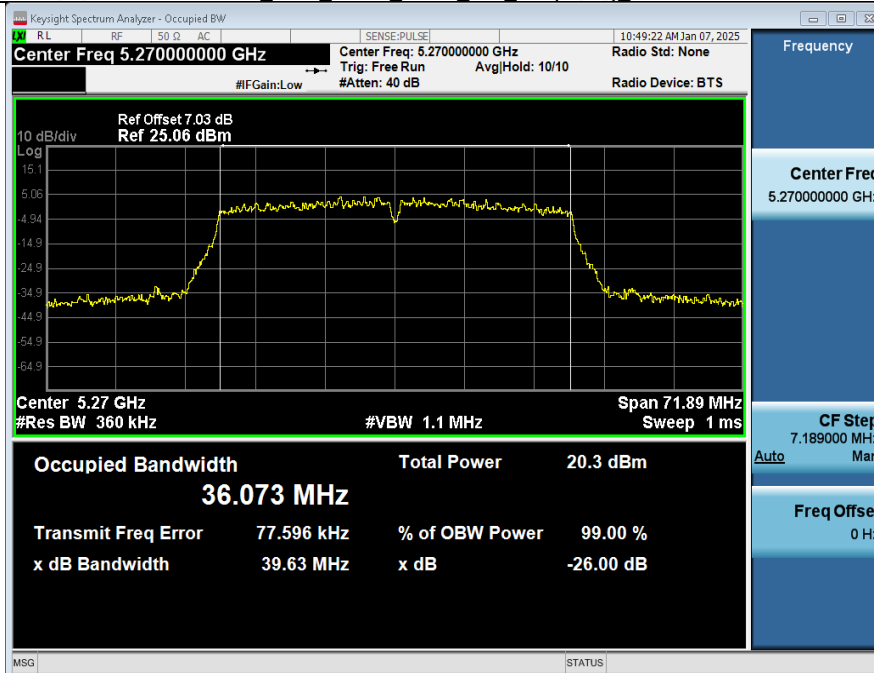
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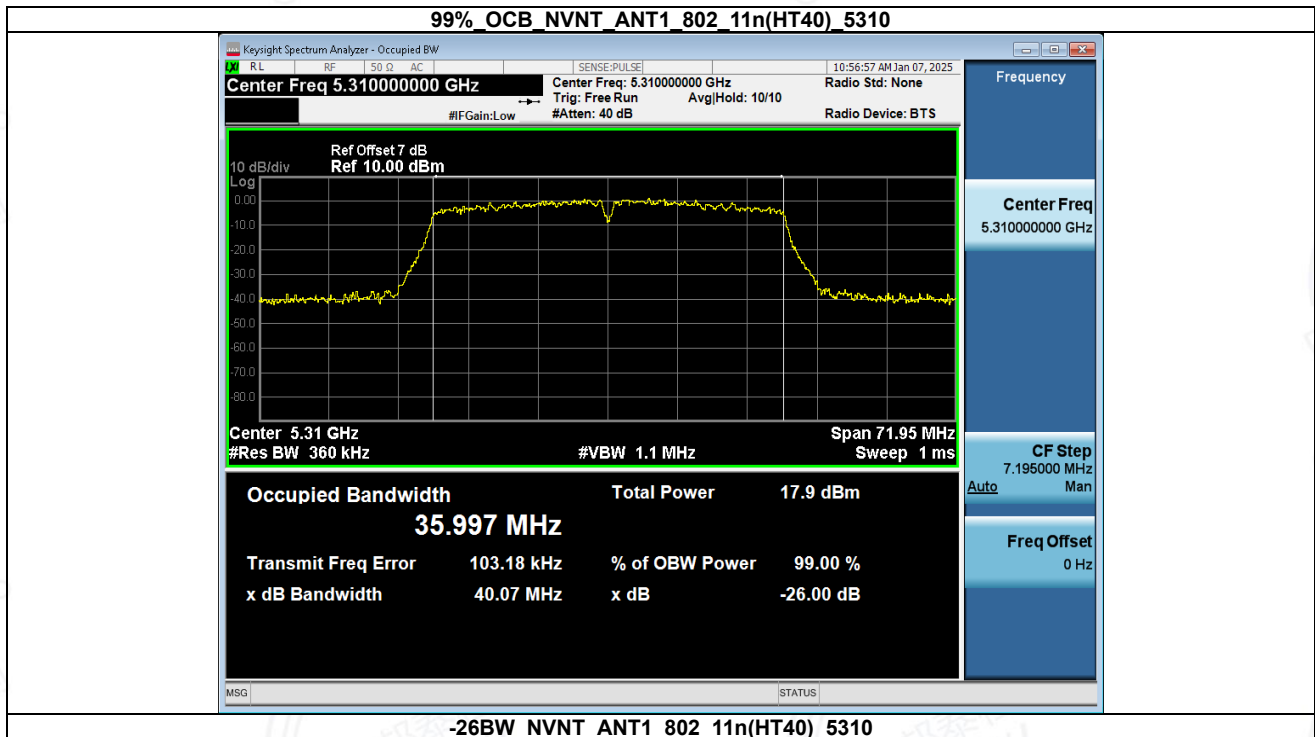
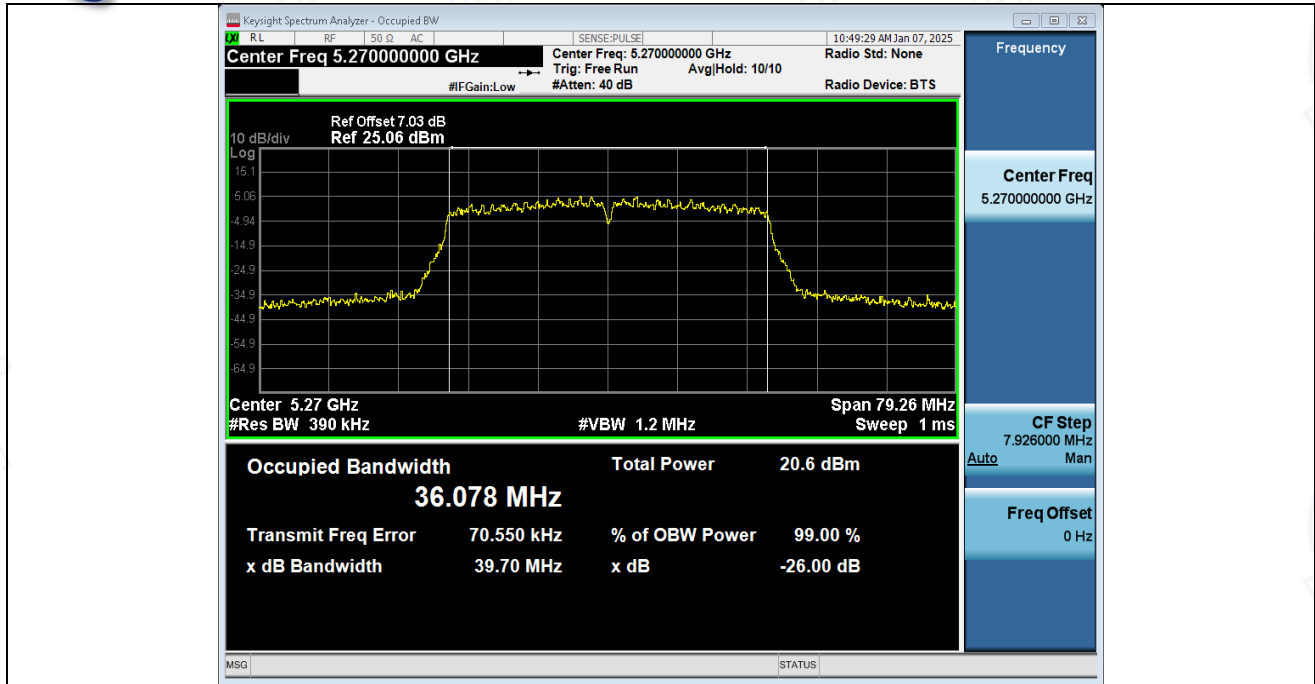


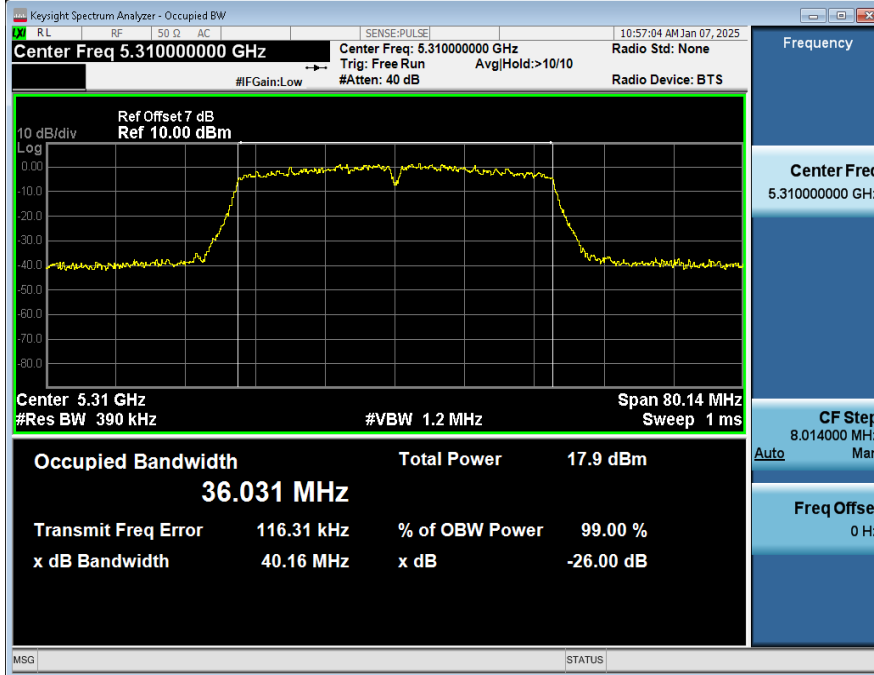
99%_OCB_NVNT_ANT2_802_11n(HT40)_5270



-26BW_NVNT_ANT2_802_11n(HT40)_5270





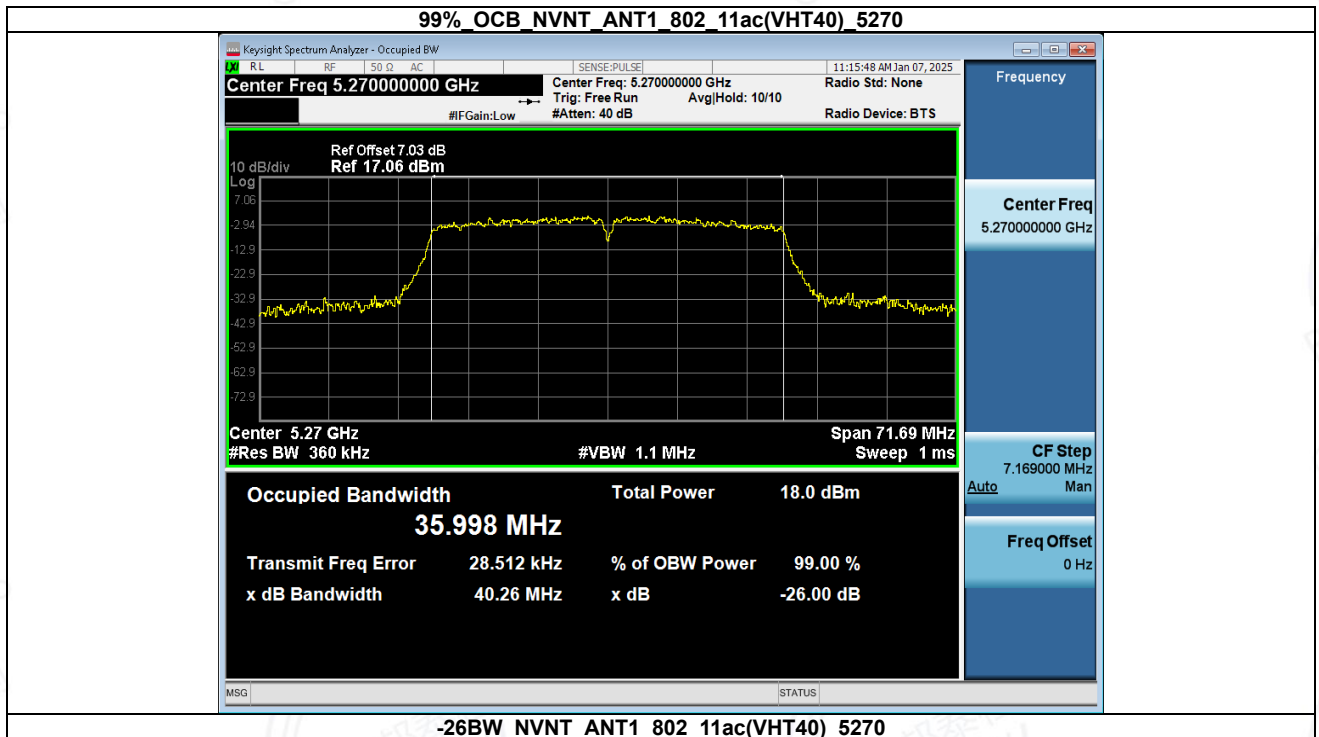
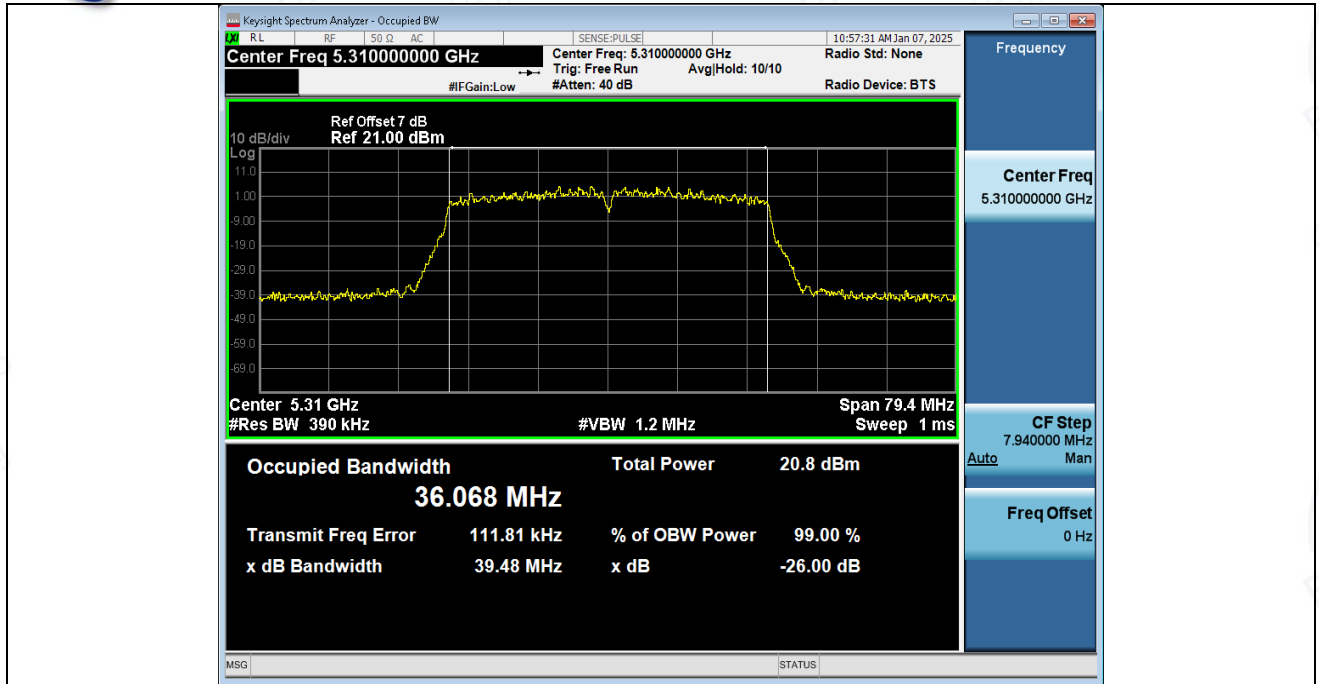


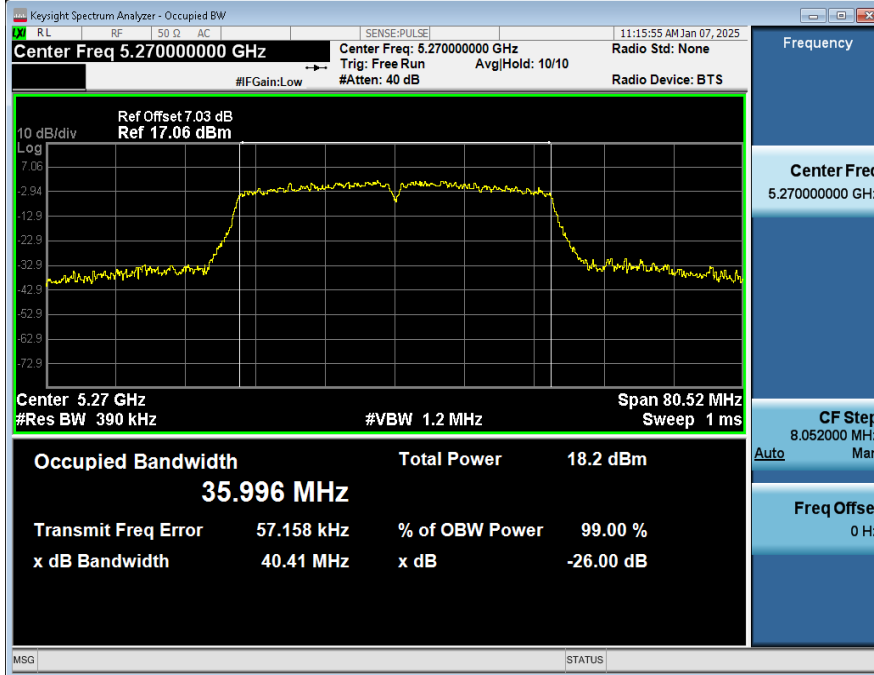
99%_OCB_NVNT_ANT2_802_11n(HT40)_5310



-26BW_NVNT_ANT2_802_11n(HT40)_5310





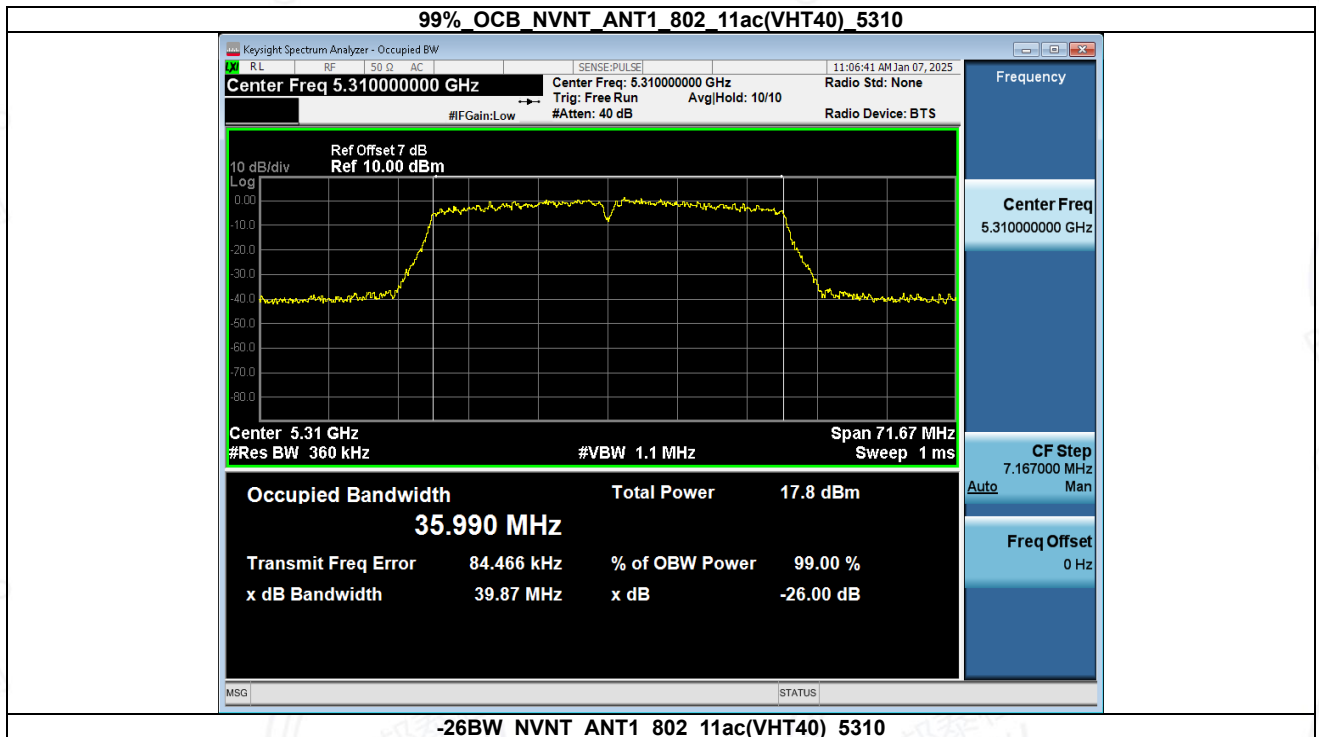
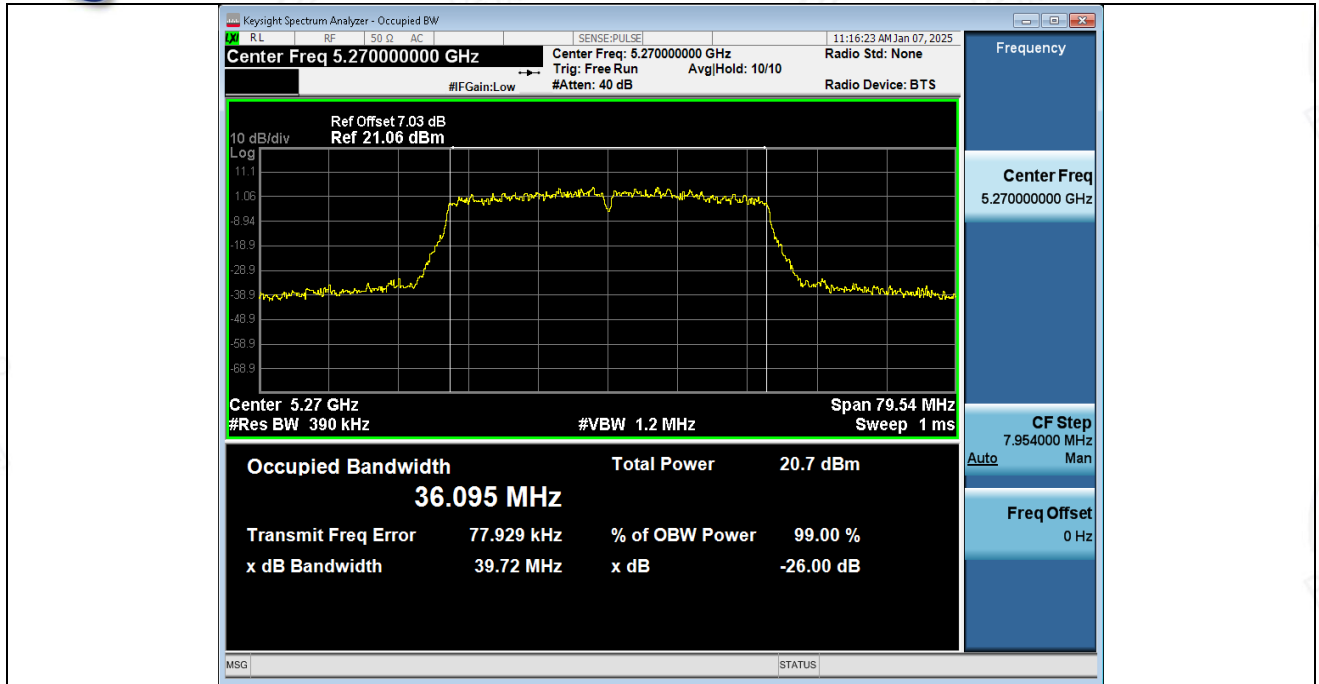


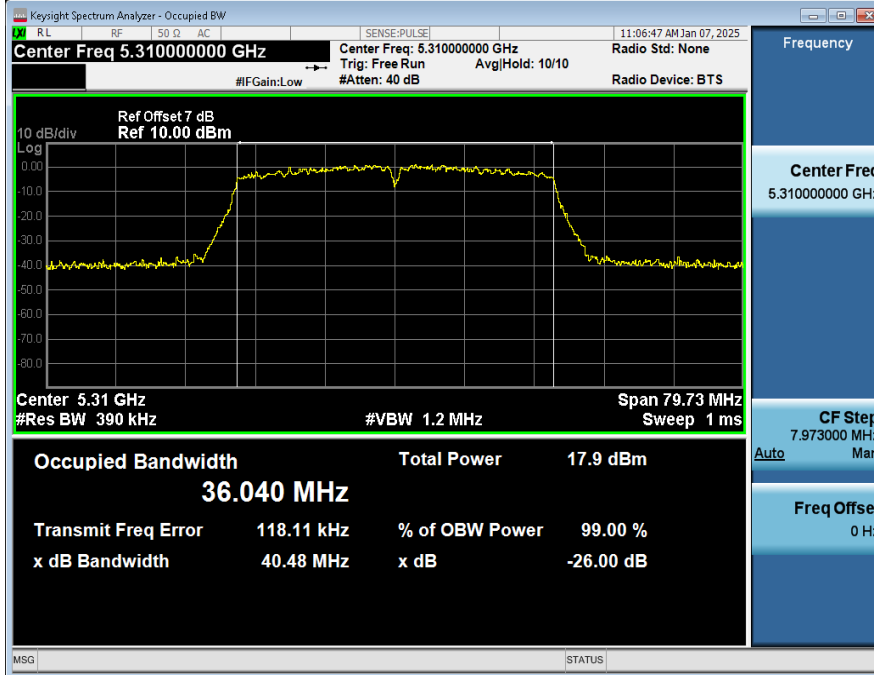
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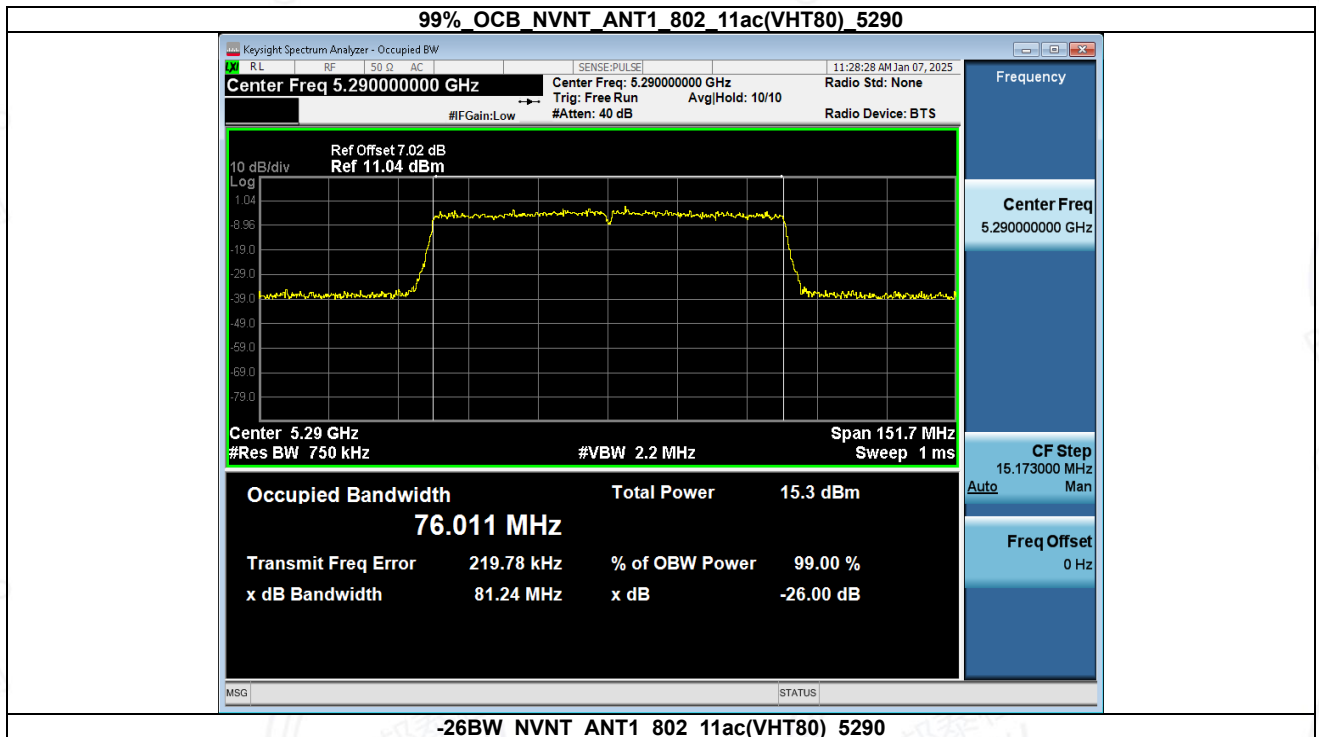


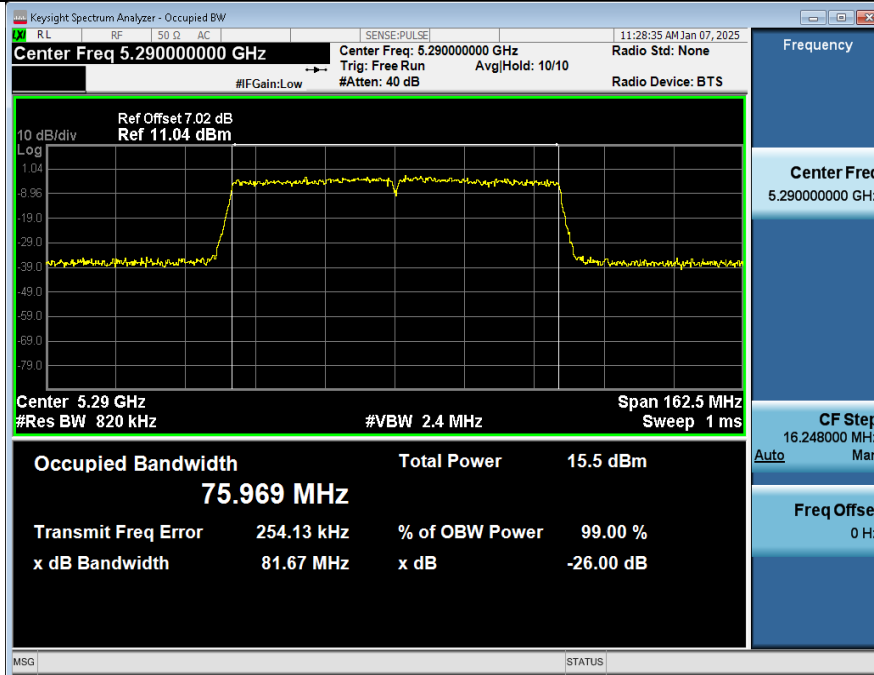
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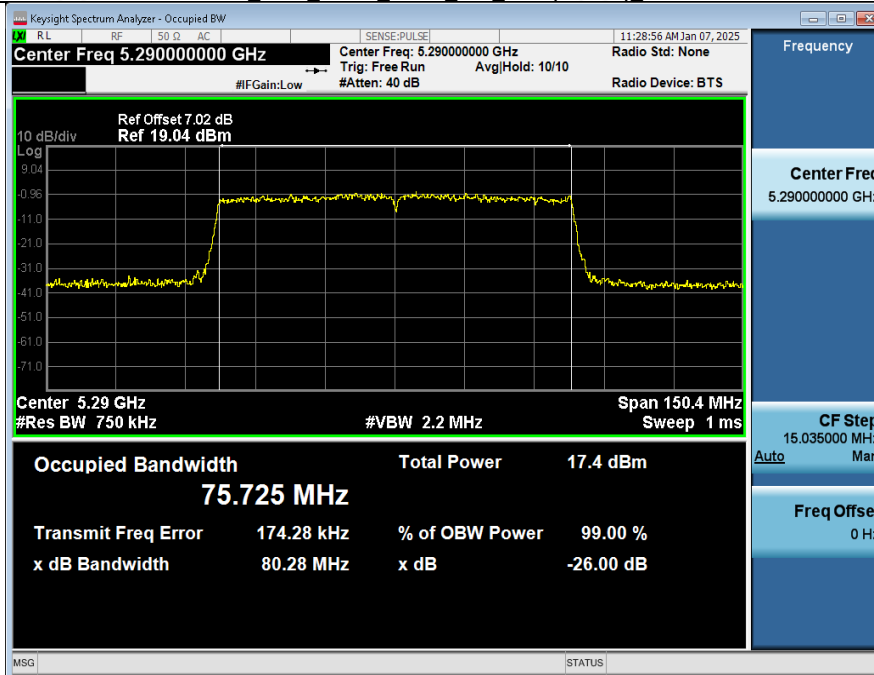
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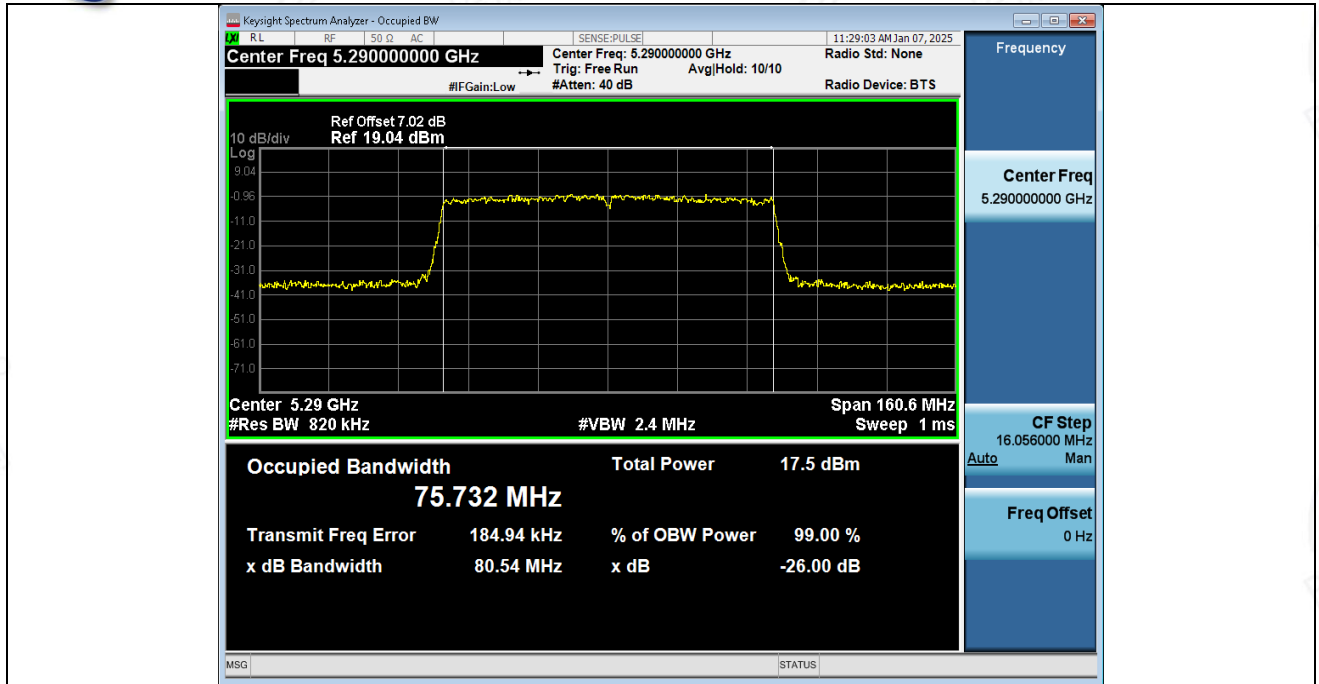


99%_OCB_NVNT_ANT2_802_11ac(VHT80)_5290



-26BW_NVNT_ANT2_802_11ac(VHT80)_5290

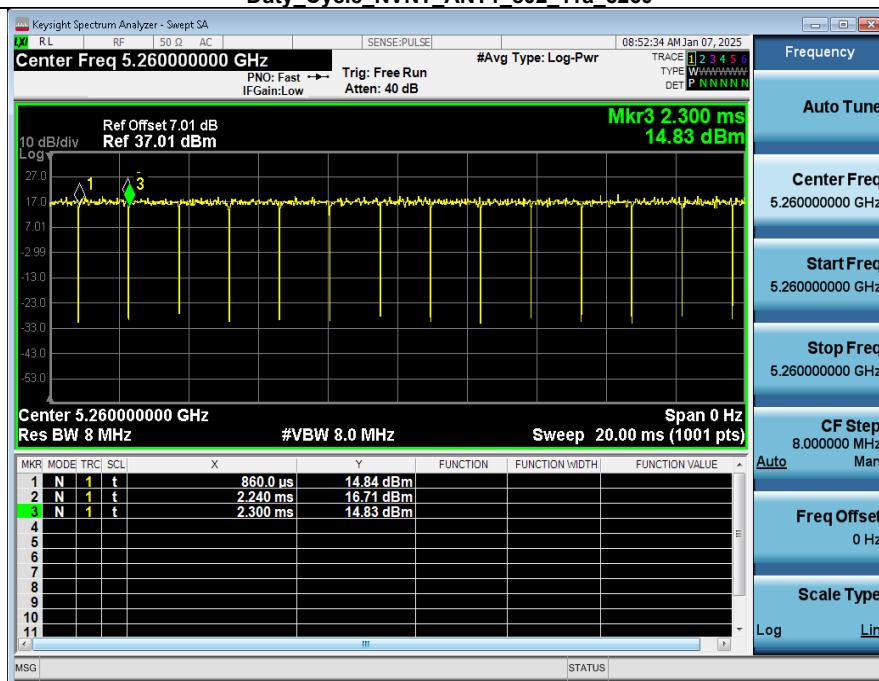




2. Duty Cycle

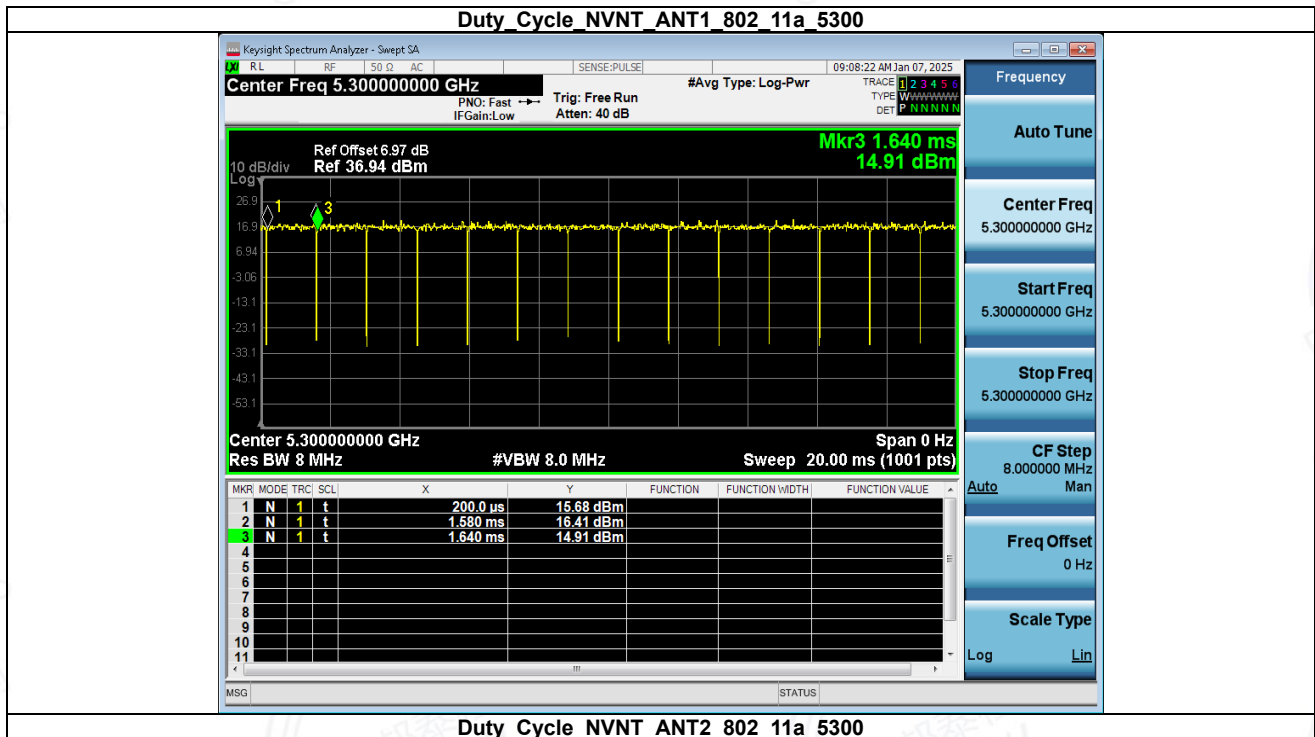
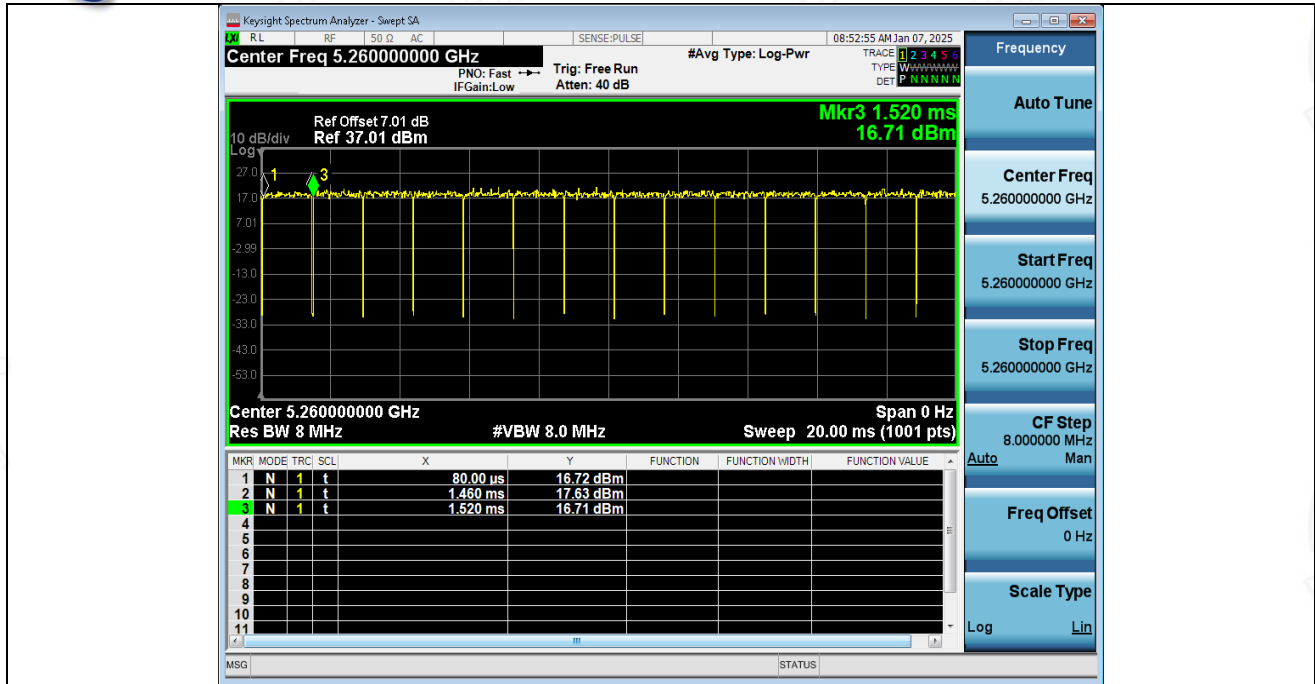
Condition	Antenna	Modulation	Frequency(MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5260.00	95.83	0.18
NVNT	ANT2	802.11a	5260.00	95.83	0.18
NVNT	ANT1	802.11a	5300.00	95.83	0.18
NVNT	ANT2	802.11a	5300.00	97.22	0.12
NVNT	ANT1	802.11a	5320.00	95.89	0.18
NVNT	ANT2	802.11a	5320.00	95.83	0.18
NVNT	ANT1	802.11n(HT20)	5260.00	97.01	0.13
NVNT	ANT2	802.11n(HT20)	5260.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5300.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5300.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5320.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5320.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT20)	5260.00	95.59	0.20
NVNT	ANT2	802.11ac(VHT20)	5260.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT20)	5300.00	95.59	0.20
NVNT	ANT2	802.11ac(VHT20)	5300.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT20)	5320.00	95.59	0.20
NVNT	ANT2	802.11ac(VHT20)	5320.00	95.59	0.20
NVNT	ANT1	802.11n(HT40)	5270.00	91.43	0.39
NVNT	ANT2	802.11n(HT40)	5270.00	91.43	0.39
NVNT	ANT1	802.11n(HT40)	5310.00	91.43	0.39
NVNT	ANT2	802.11n(HT40)	5310.00	94.29	0.26
NVNT	ANT1	802.11ac(VHT40)	5270.00	94.29	0.26
NVNT	ANT2	802.11ac(VHT40)	5270.00	94.29	0.26
NVNT	ANT1	802.11ac(VHT40)	5310.00	94.29	0.26
NVNT	ANT2	802.11ac(VHT40)	5310.00	94.29	0.26
NVNT	ANT1	802.11ac(VHT80)	5290.00	50.00	3.01
NVNT	ANT2	802.11ac(VHT80)	5290.00	50.00	3.01

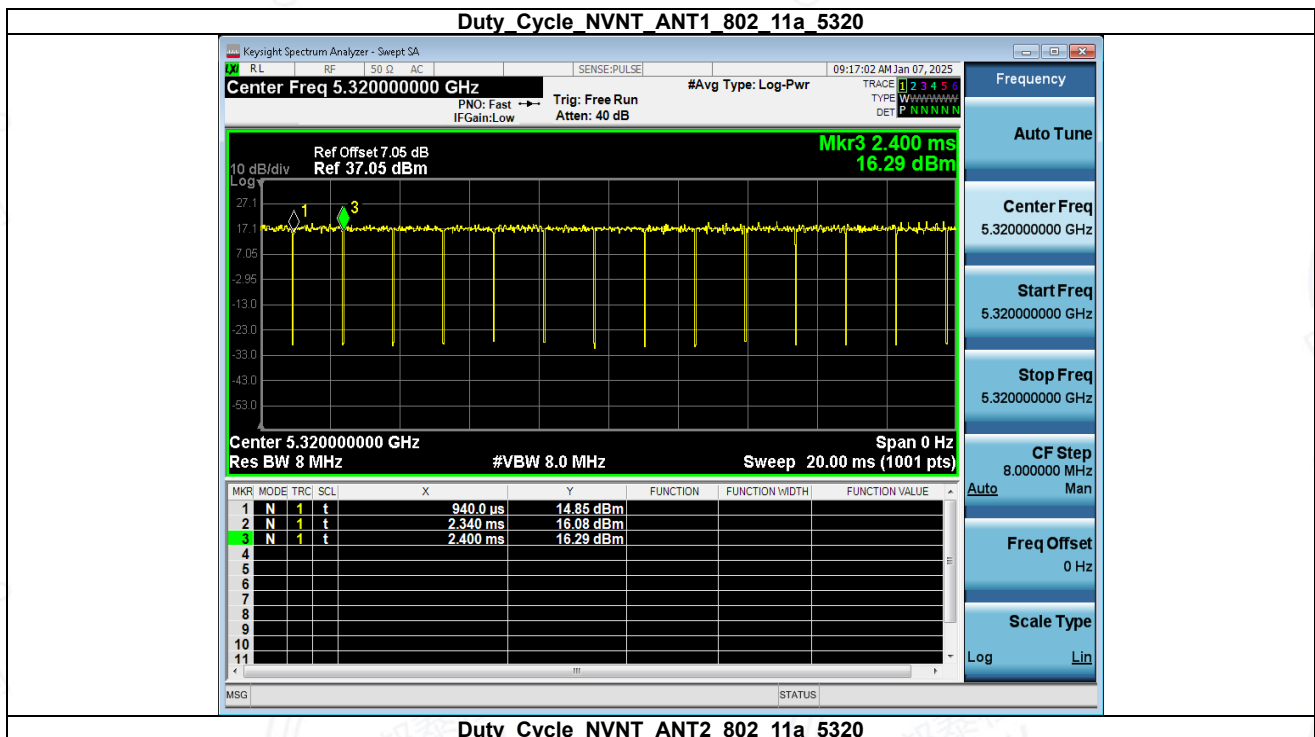
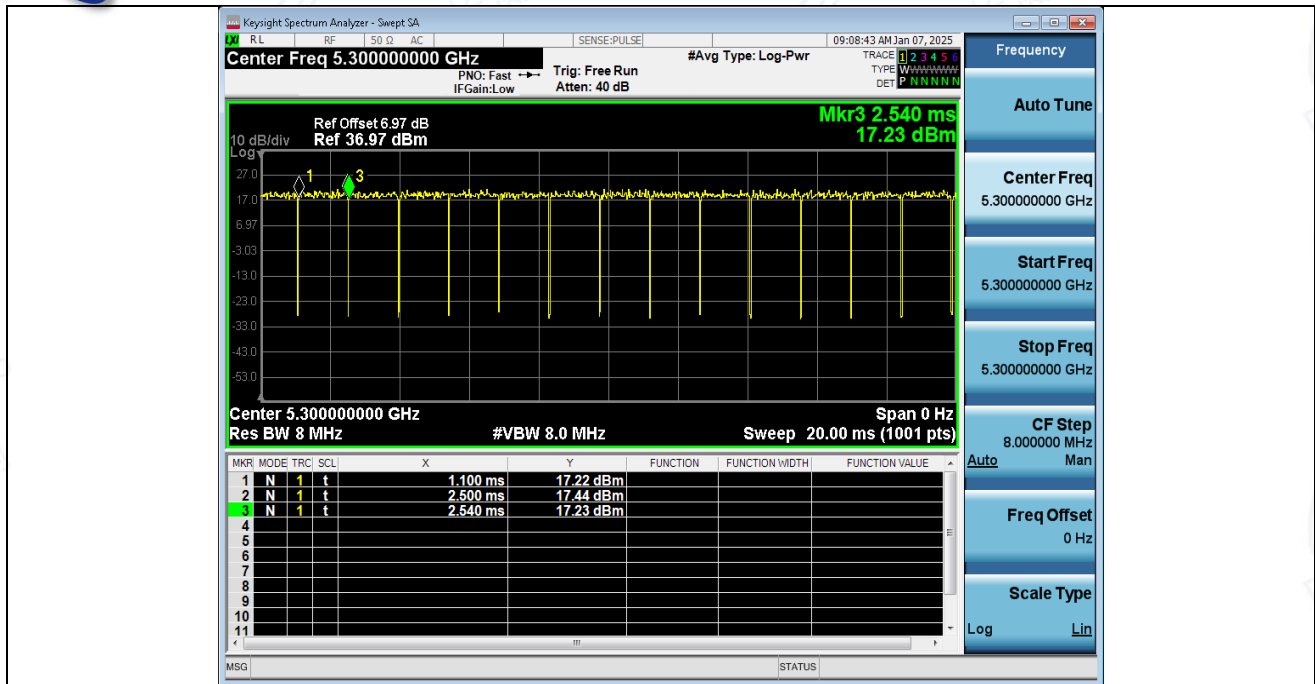
Duty Cycle NVNT ANT1 802_11a 5260

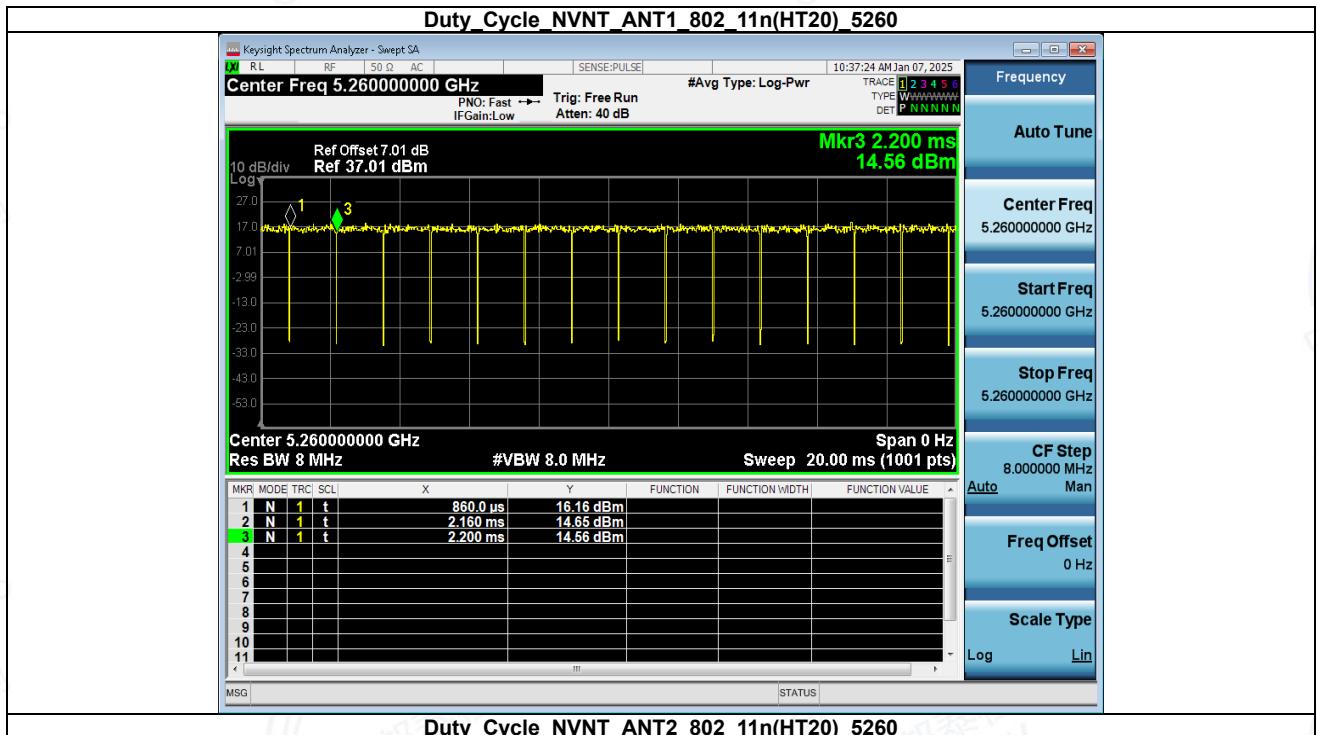
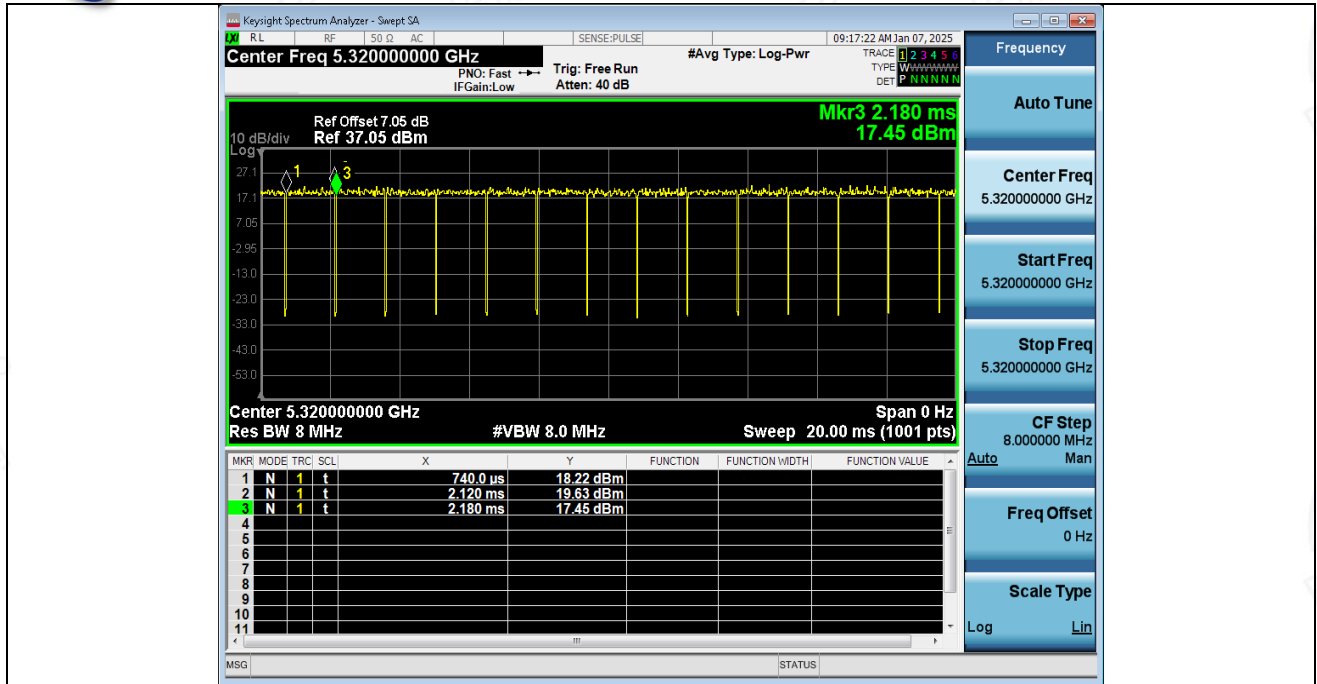


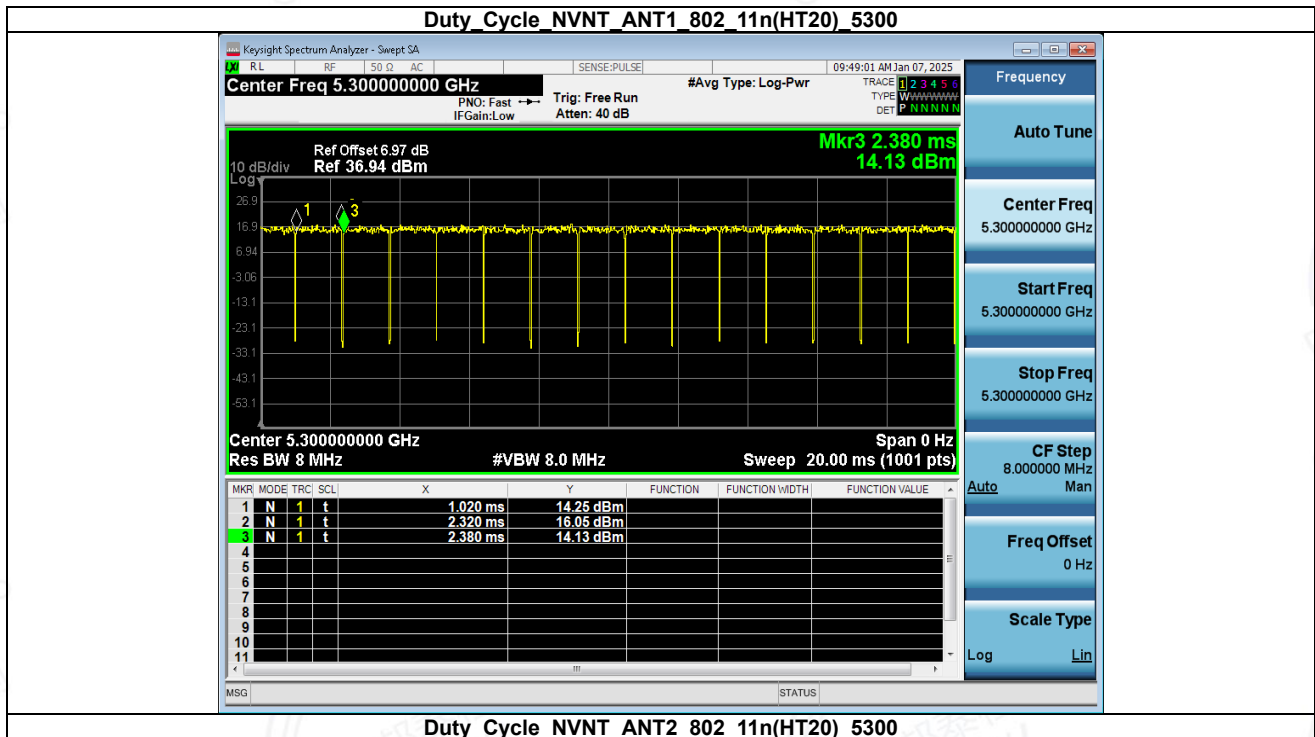
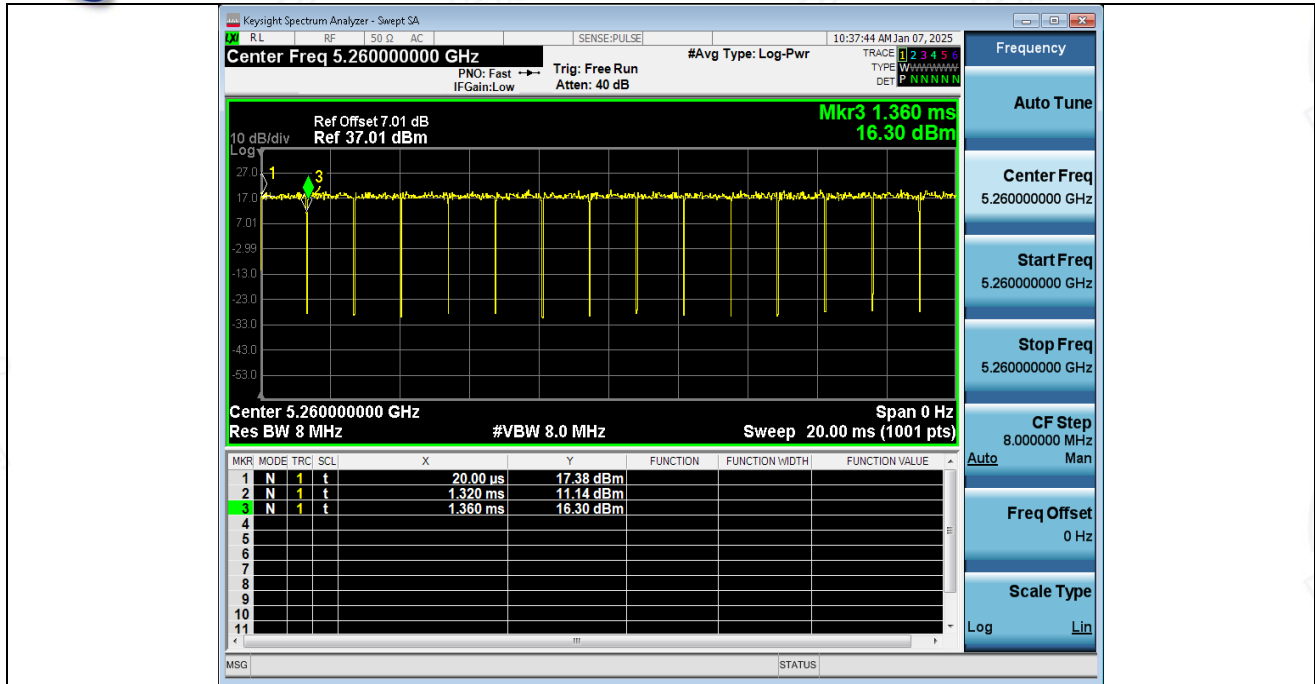
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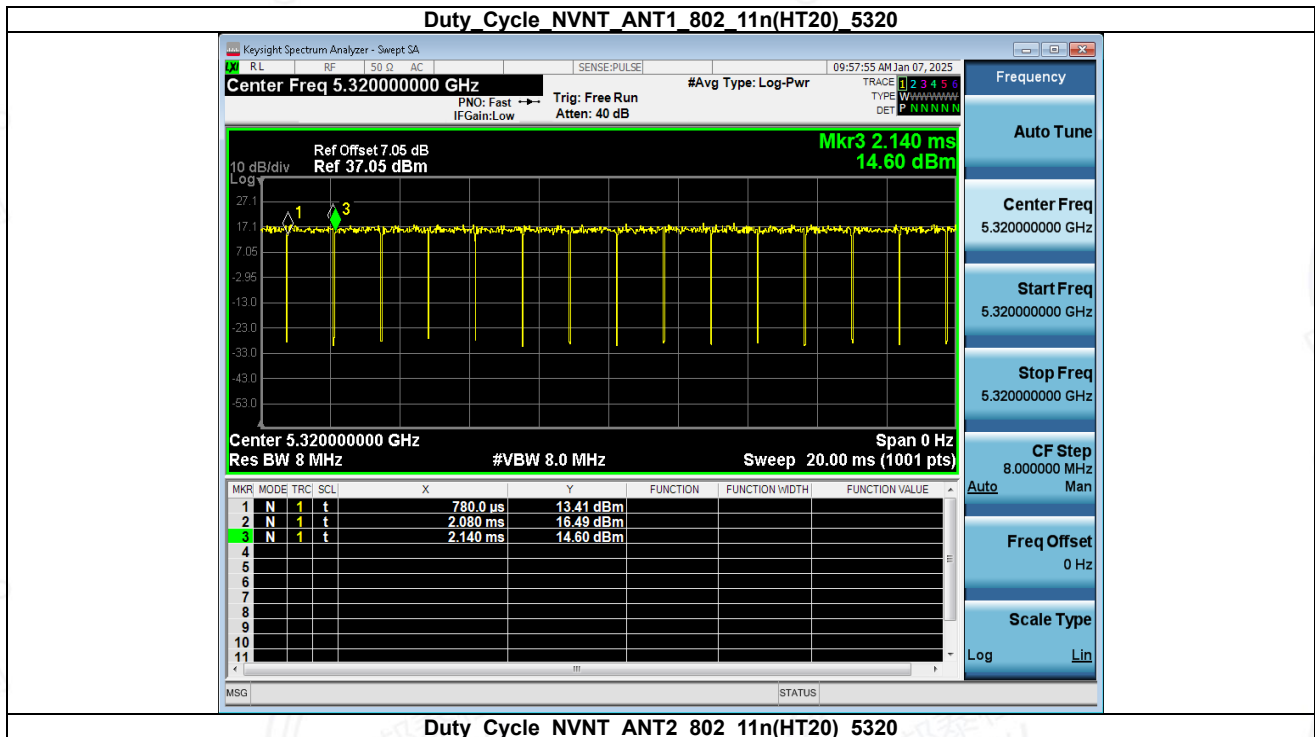
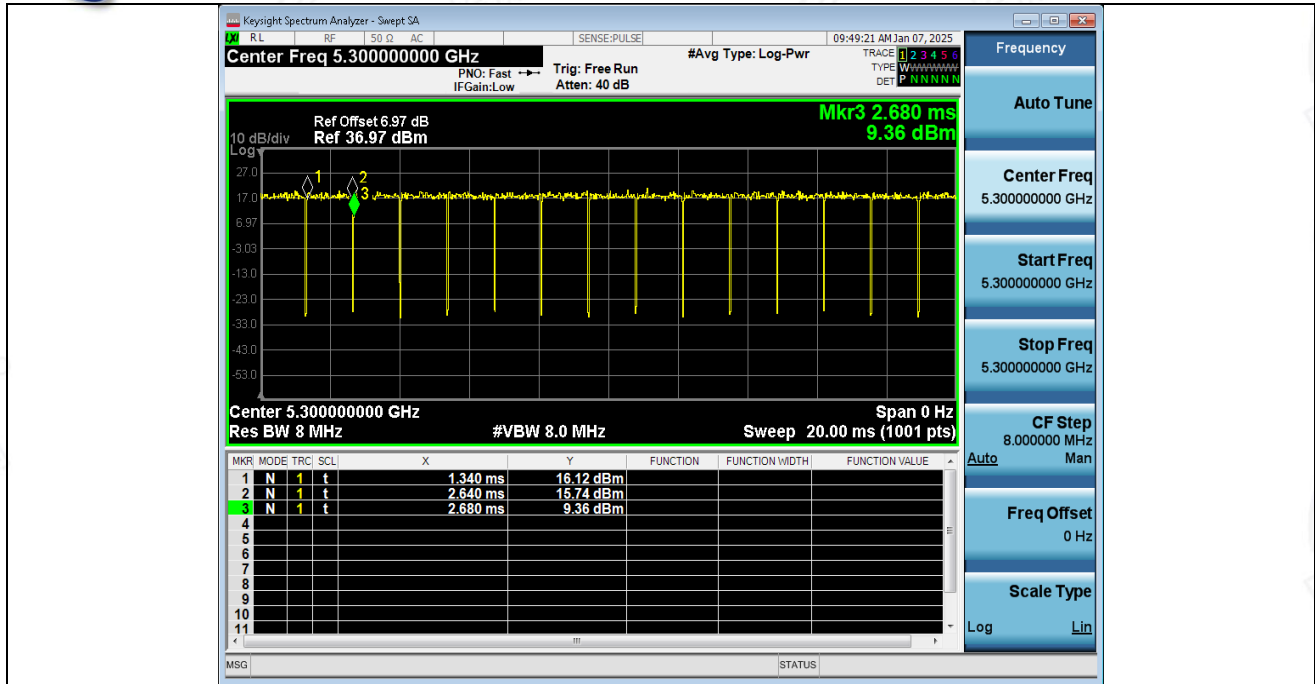


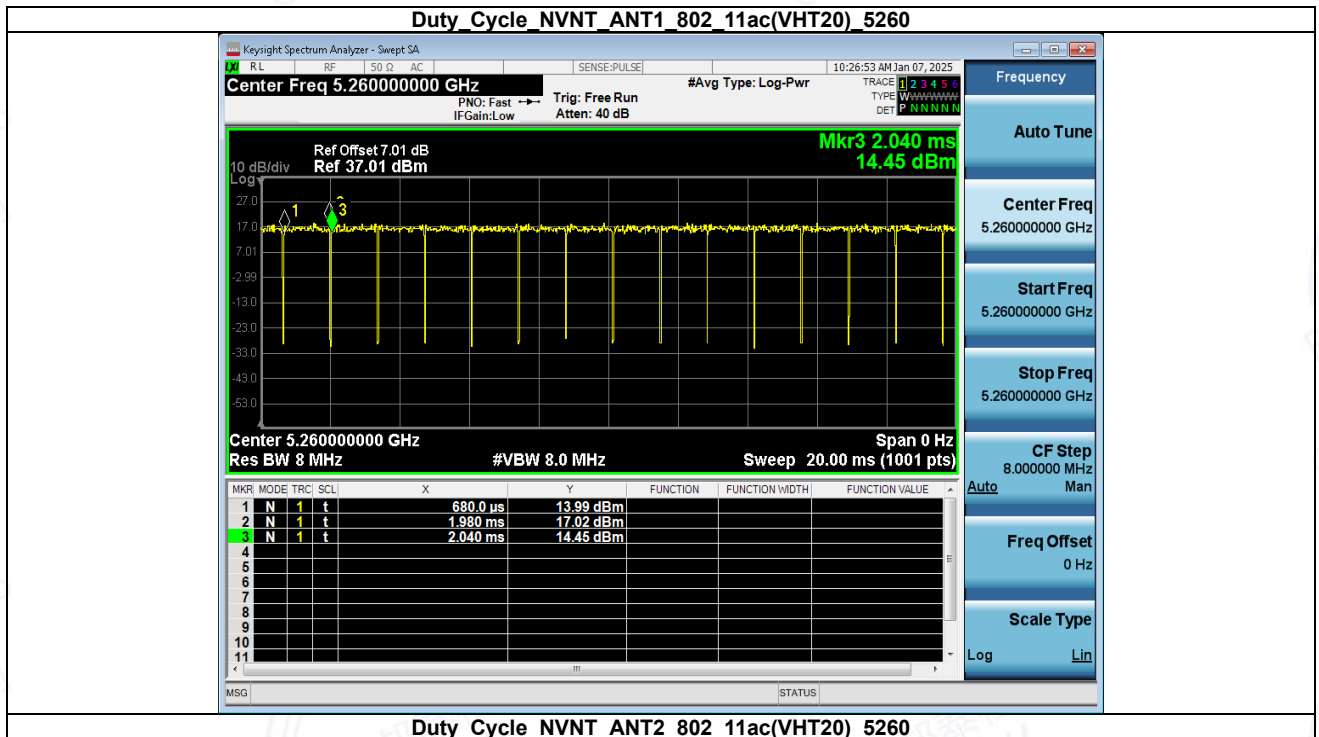
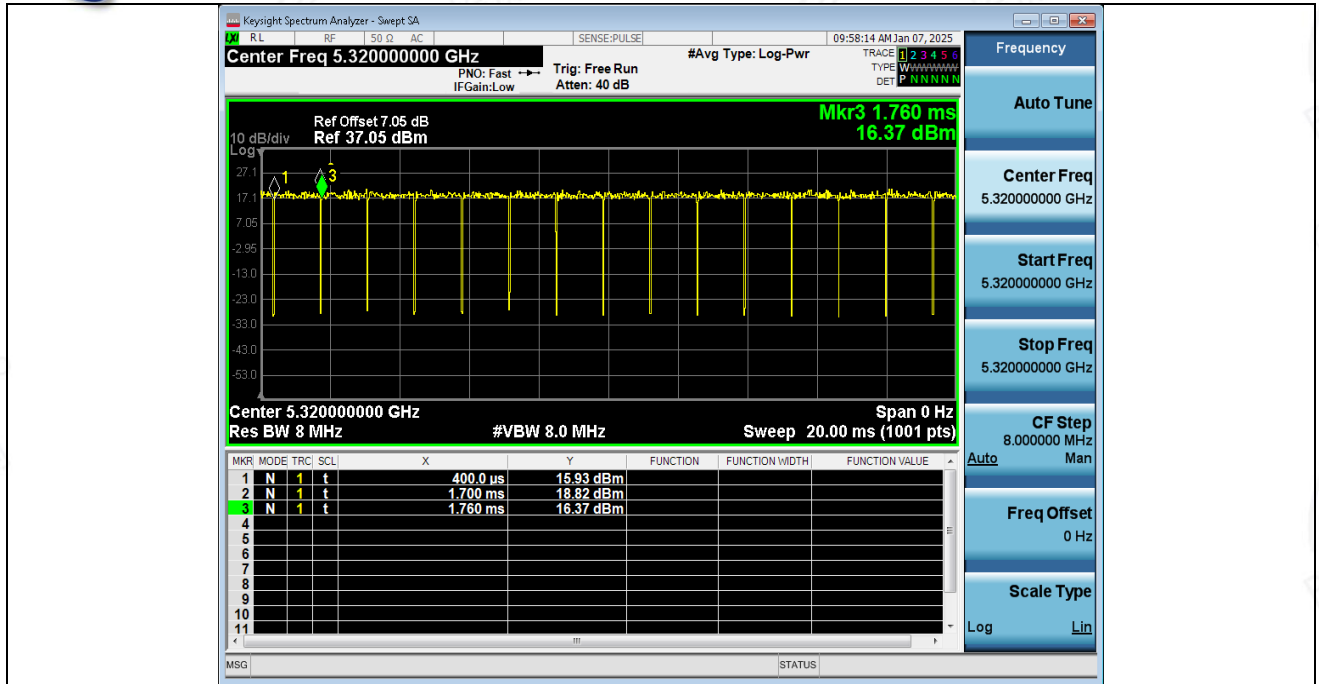


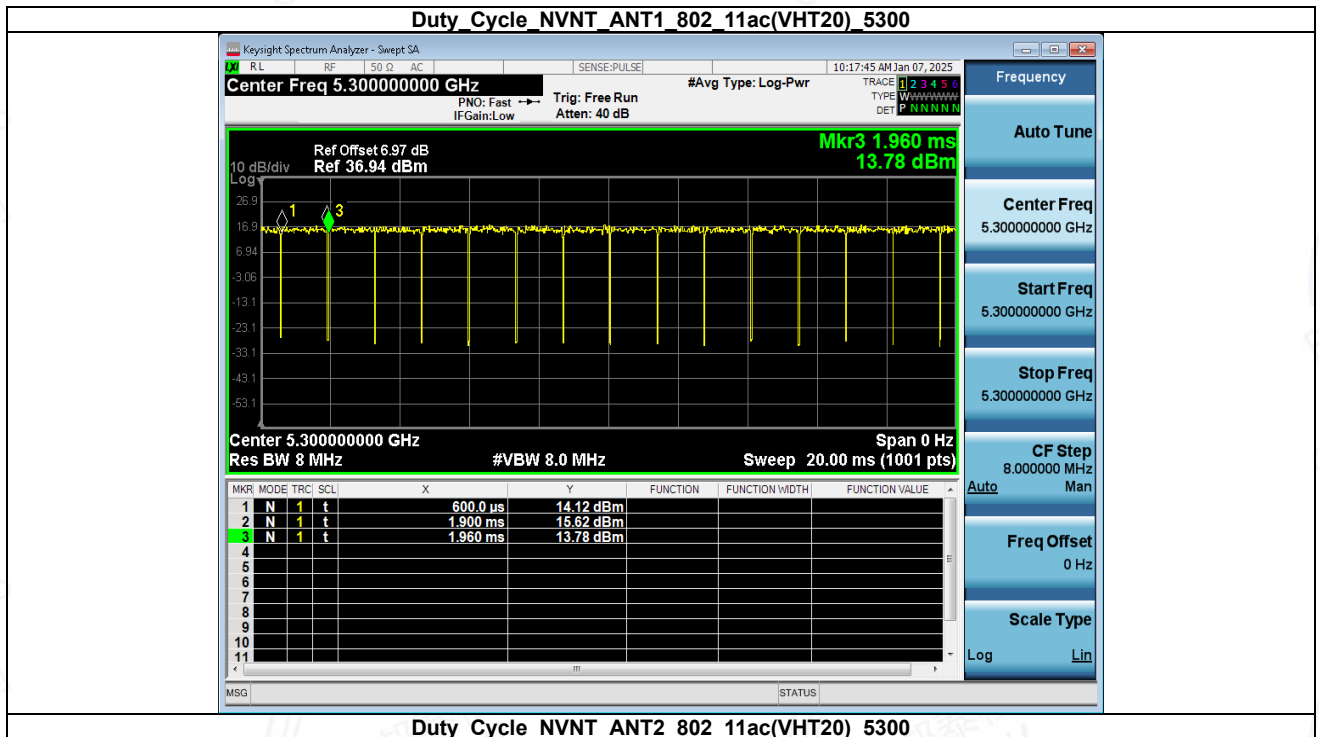
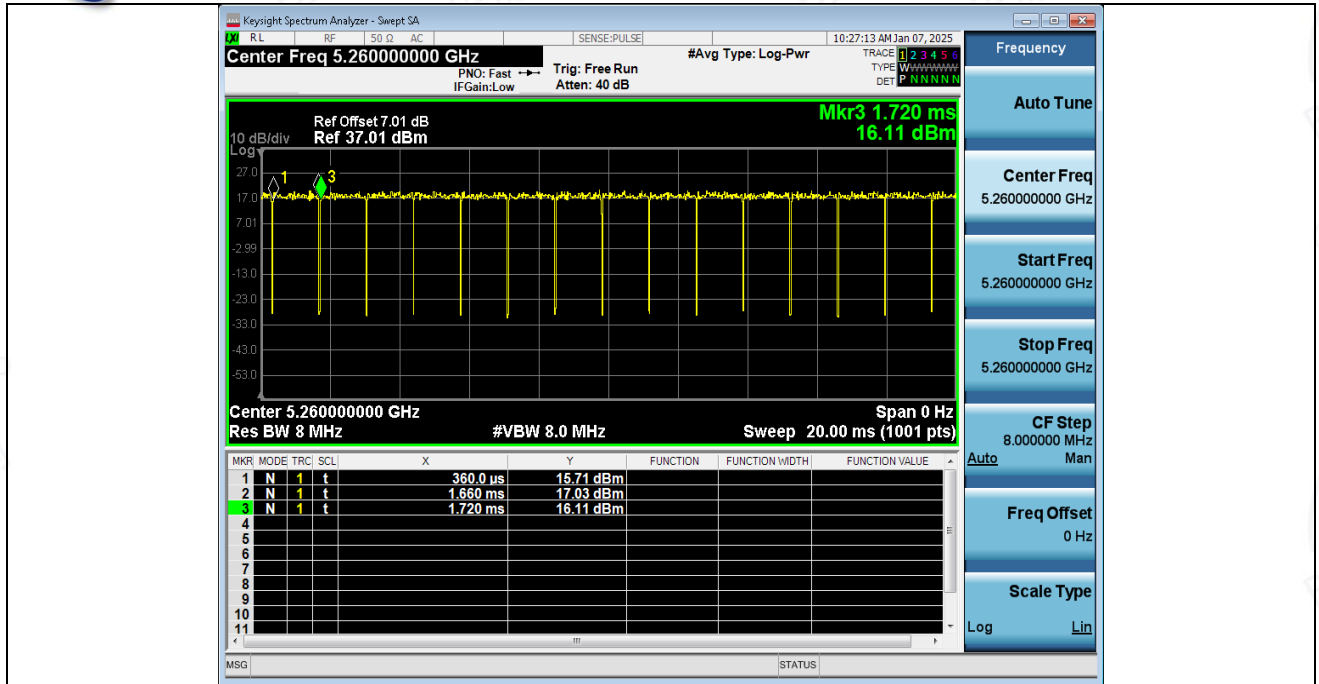


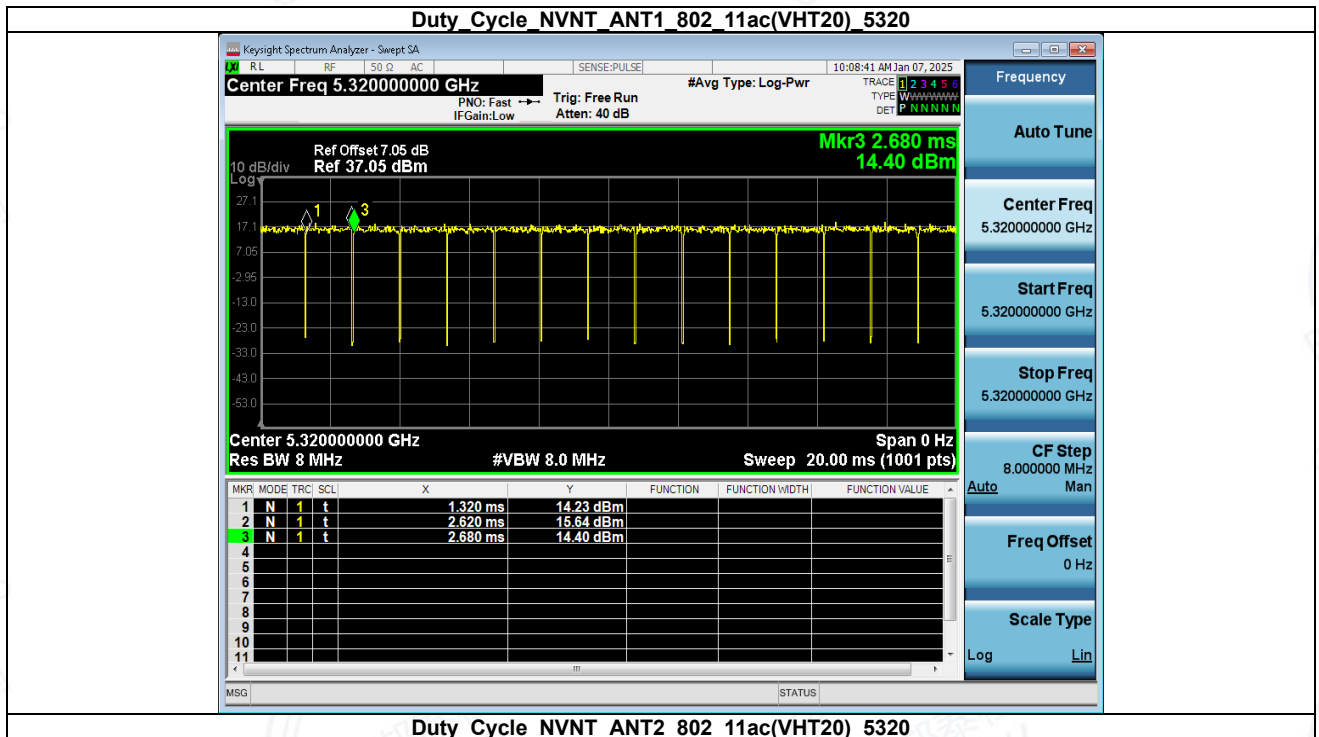
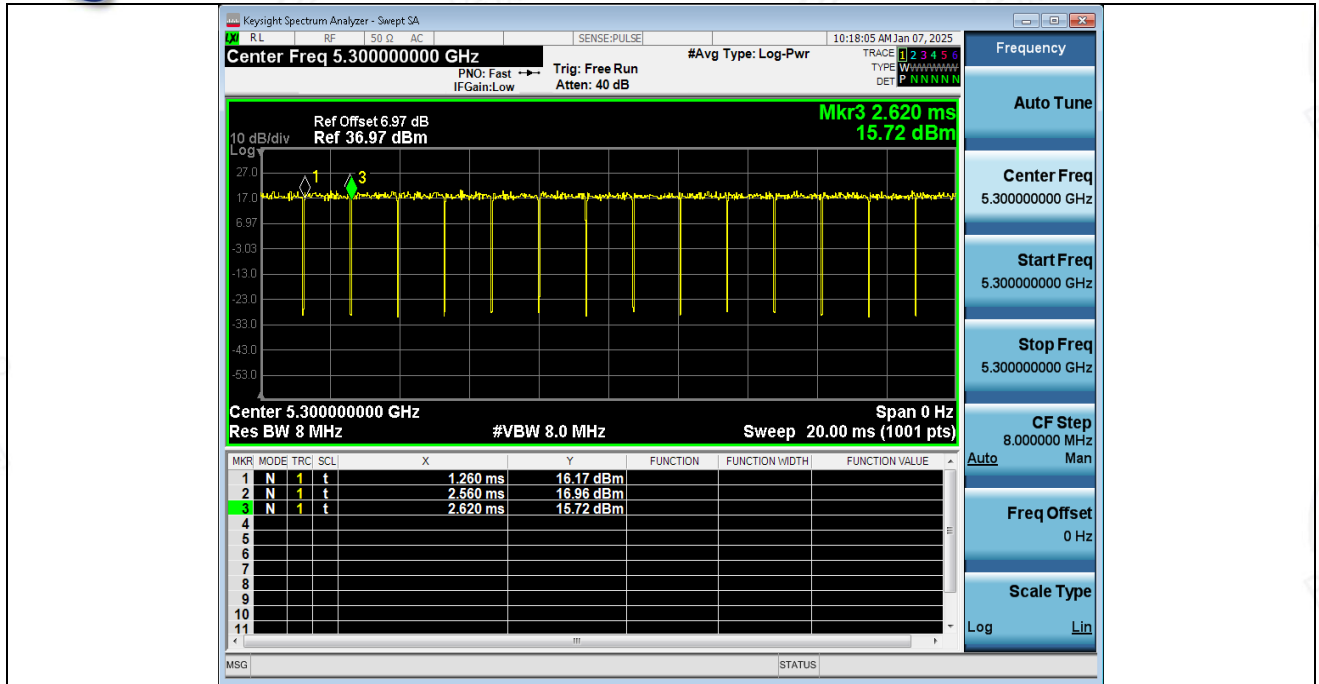


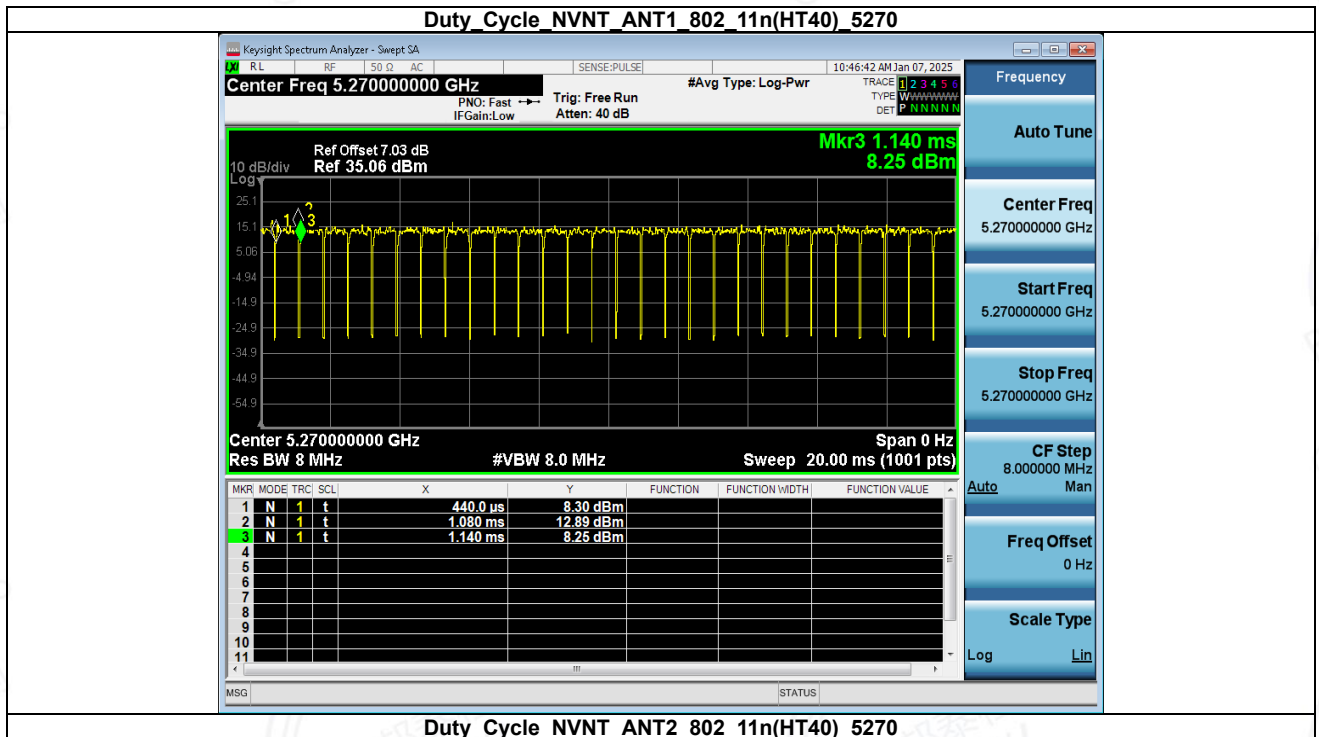
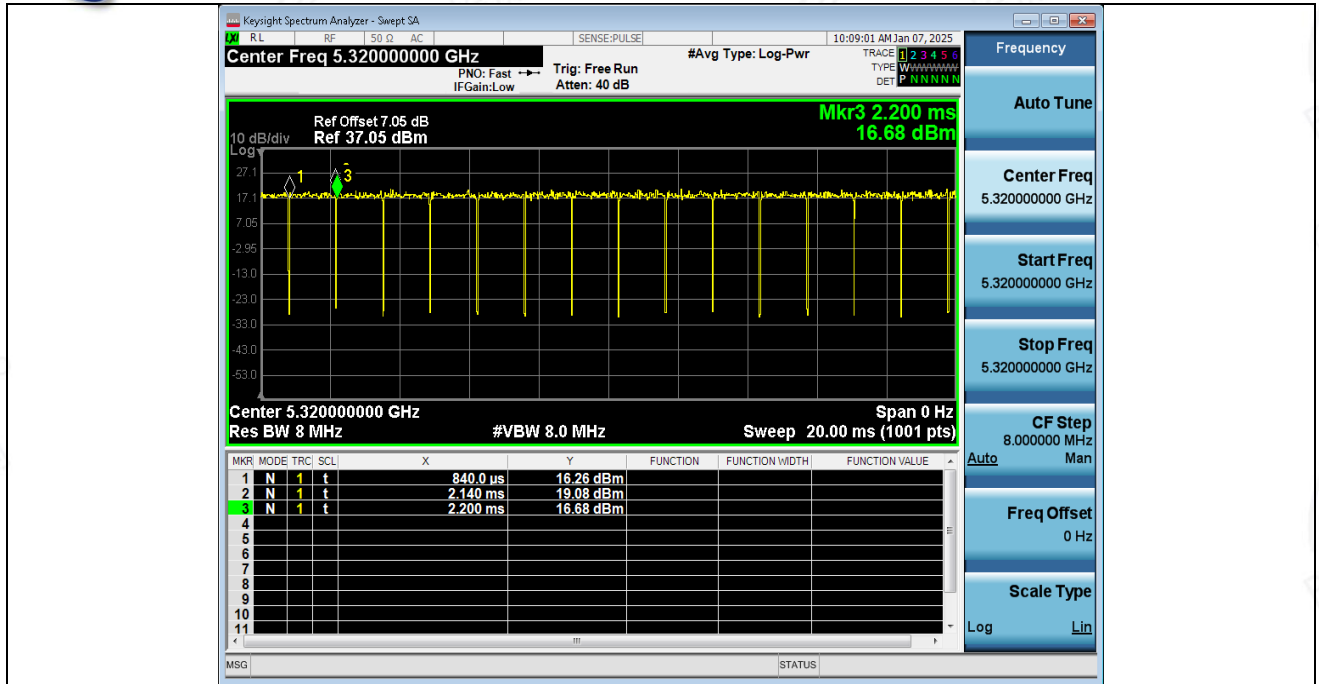


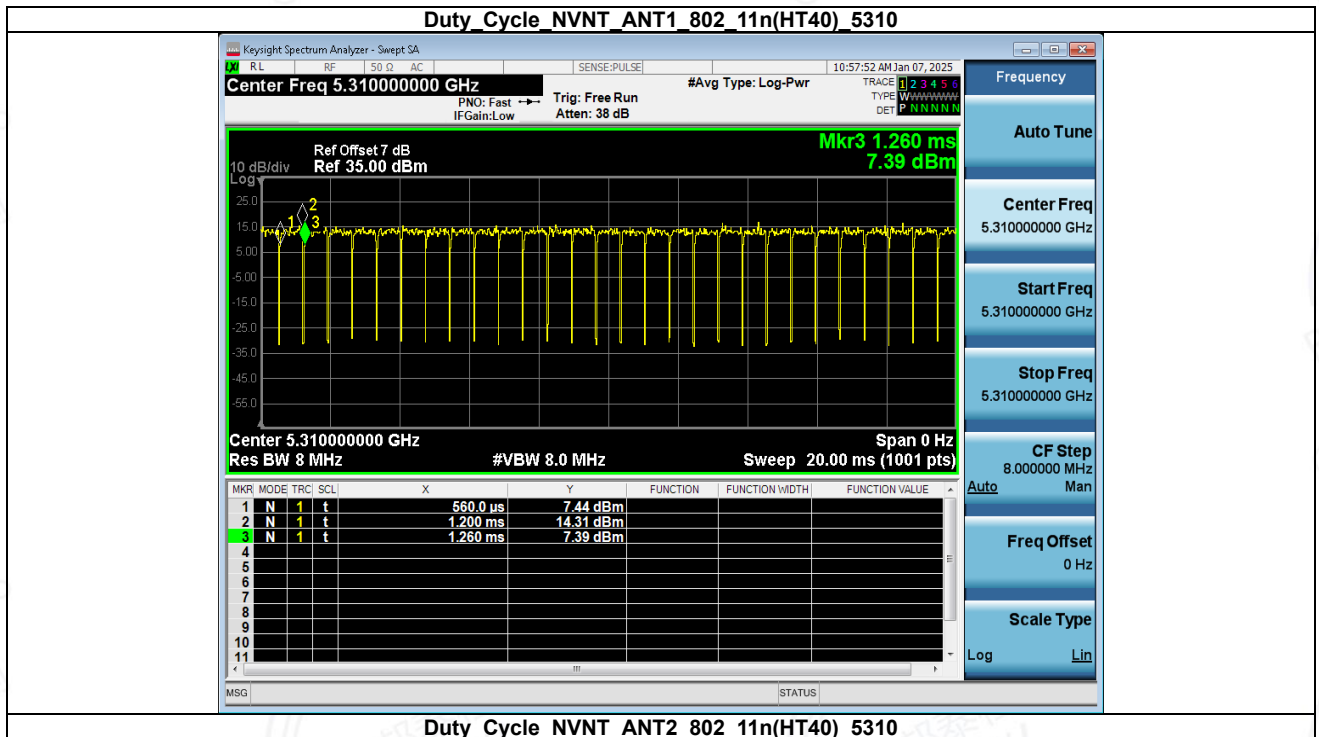
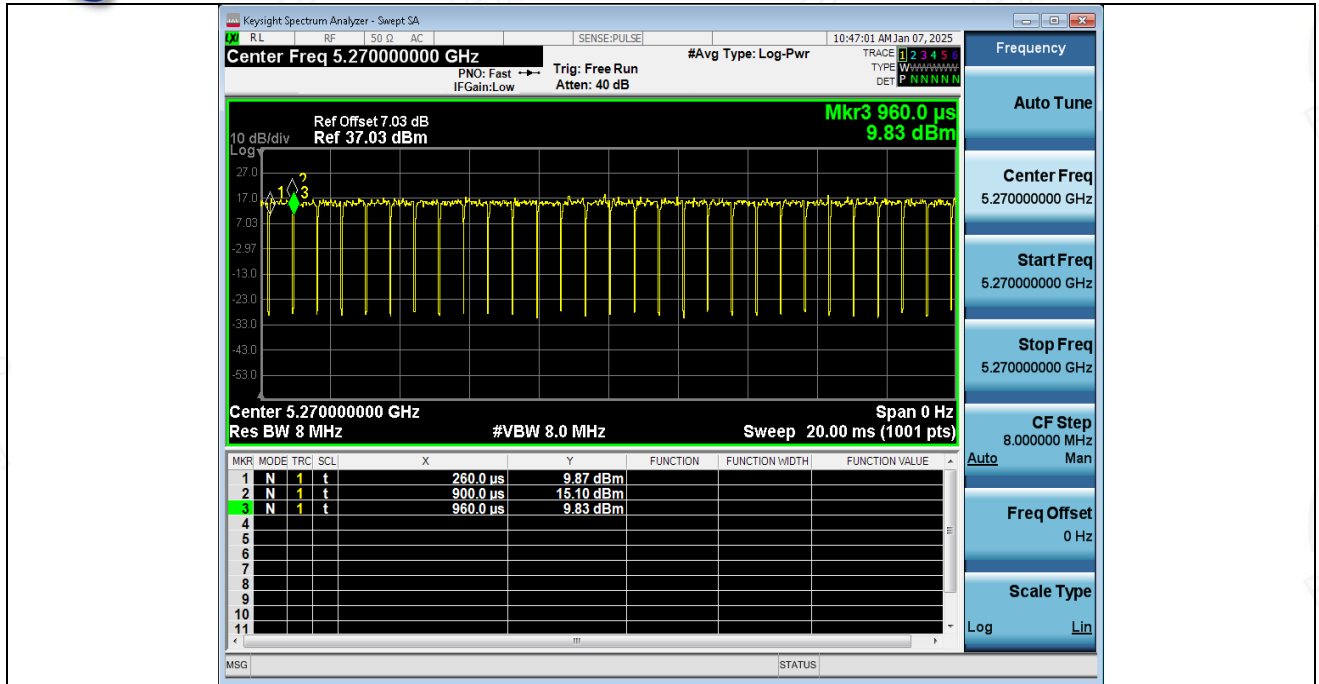


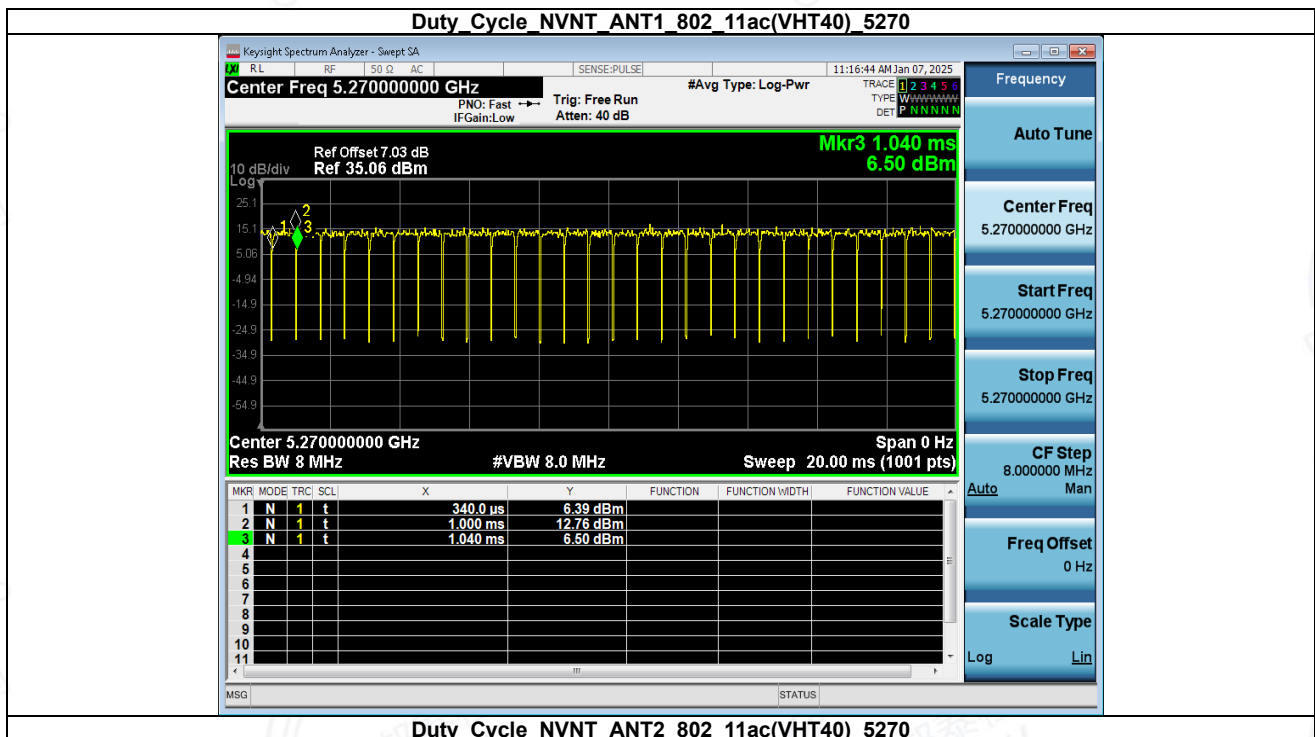
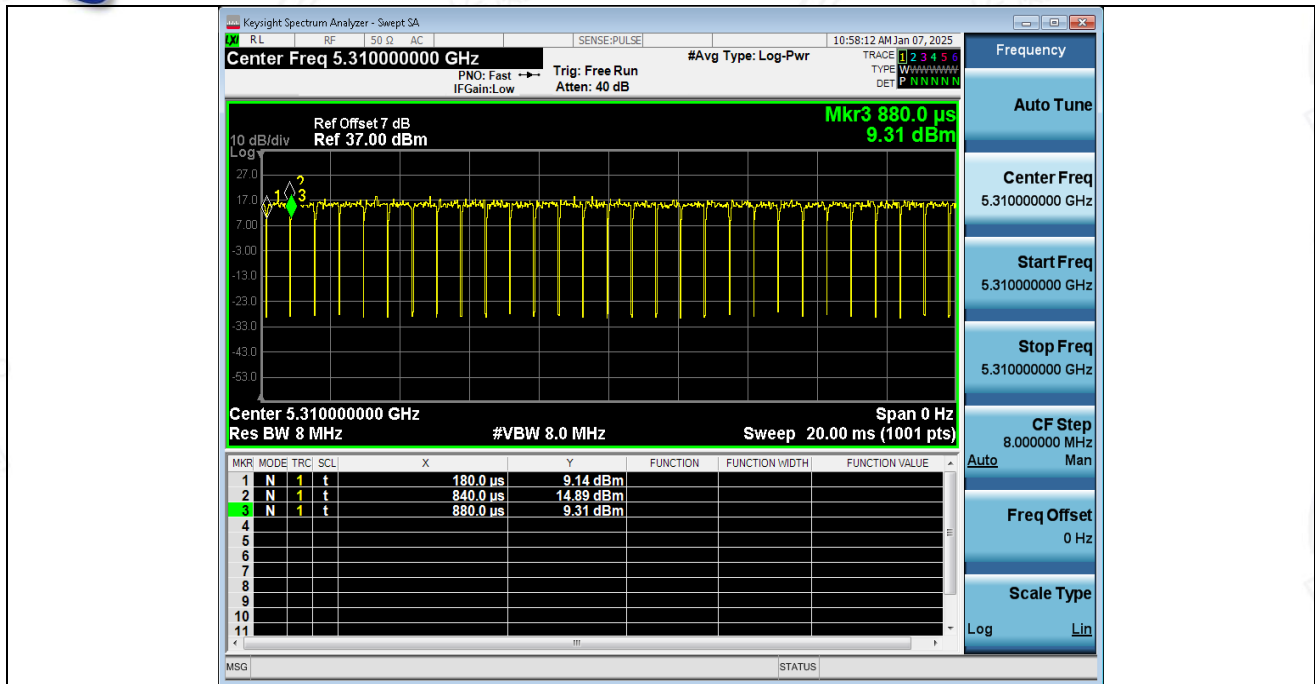


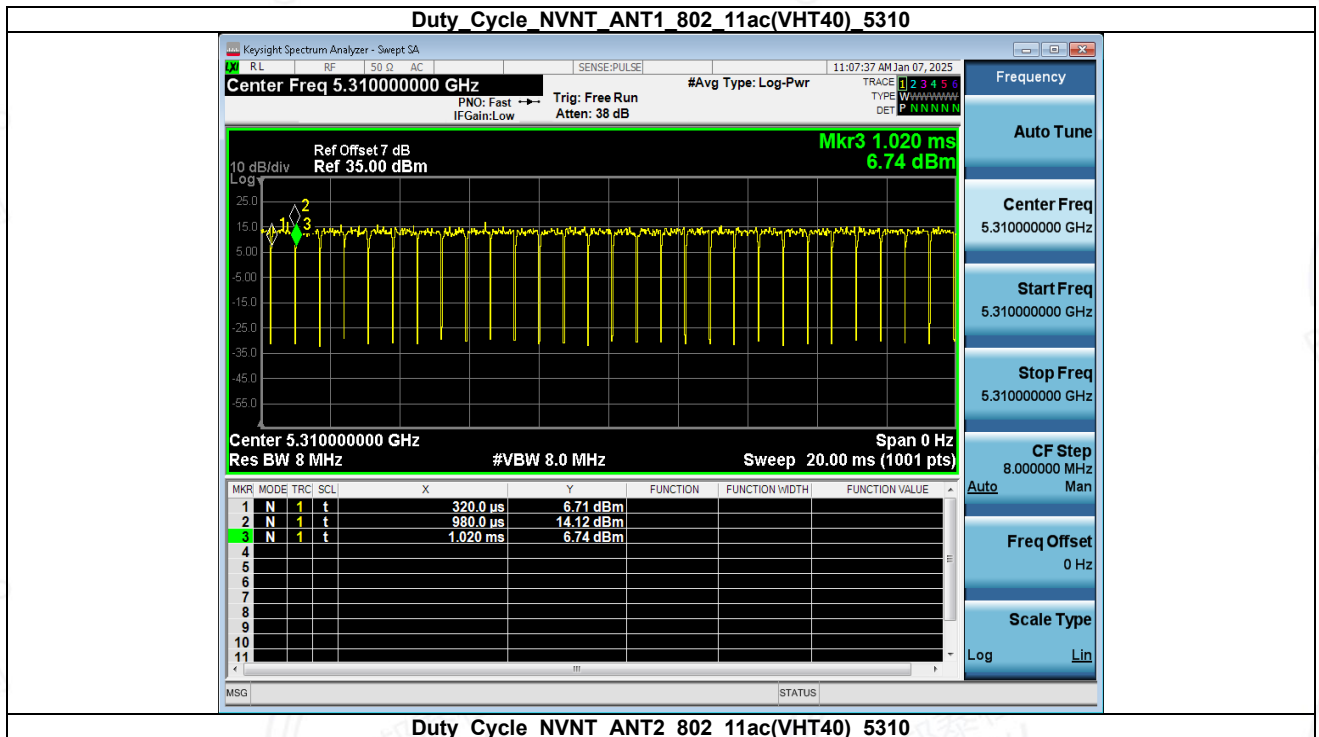
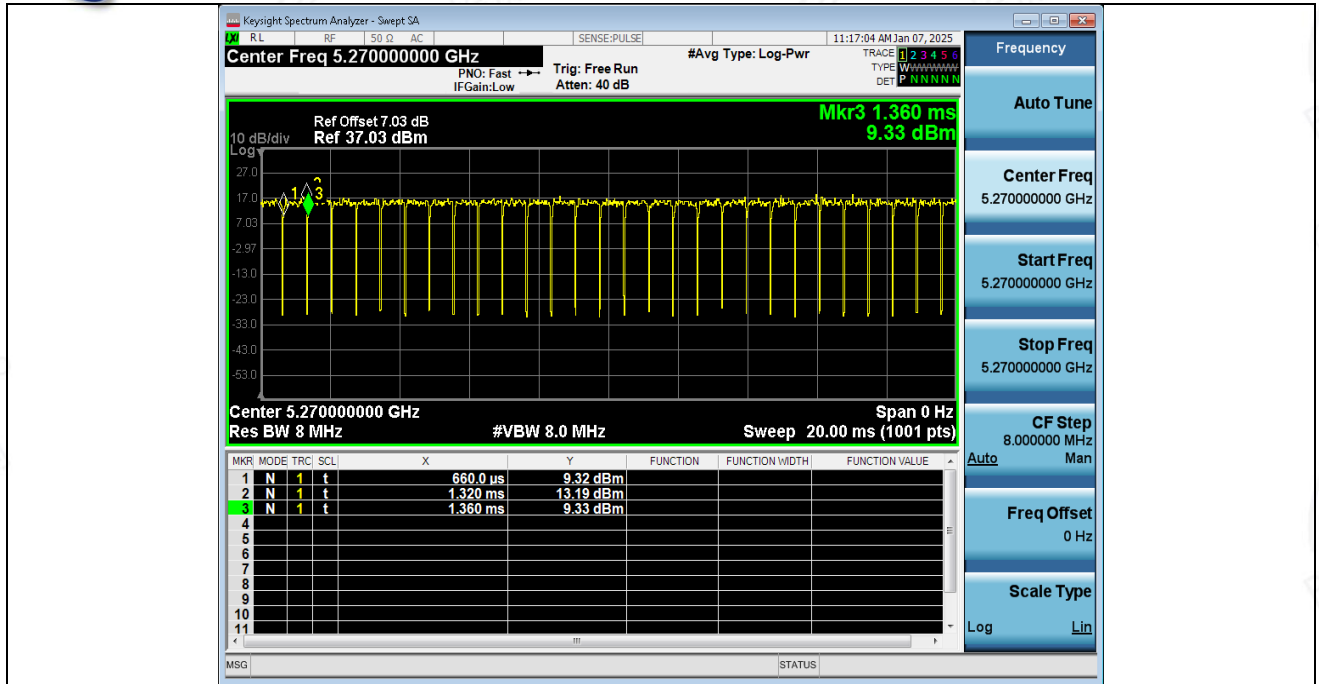


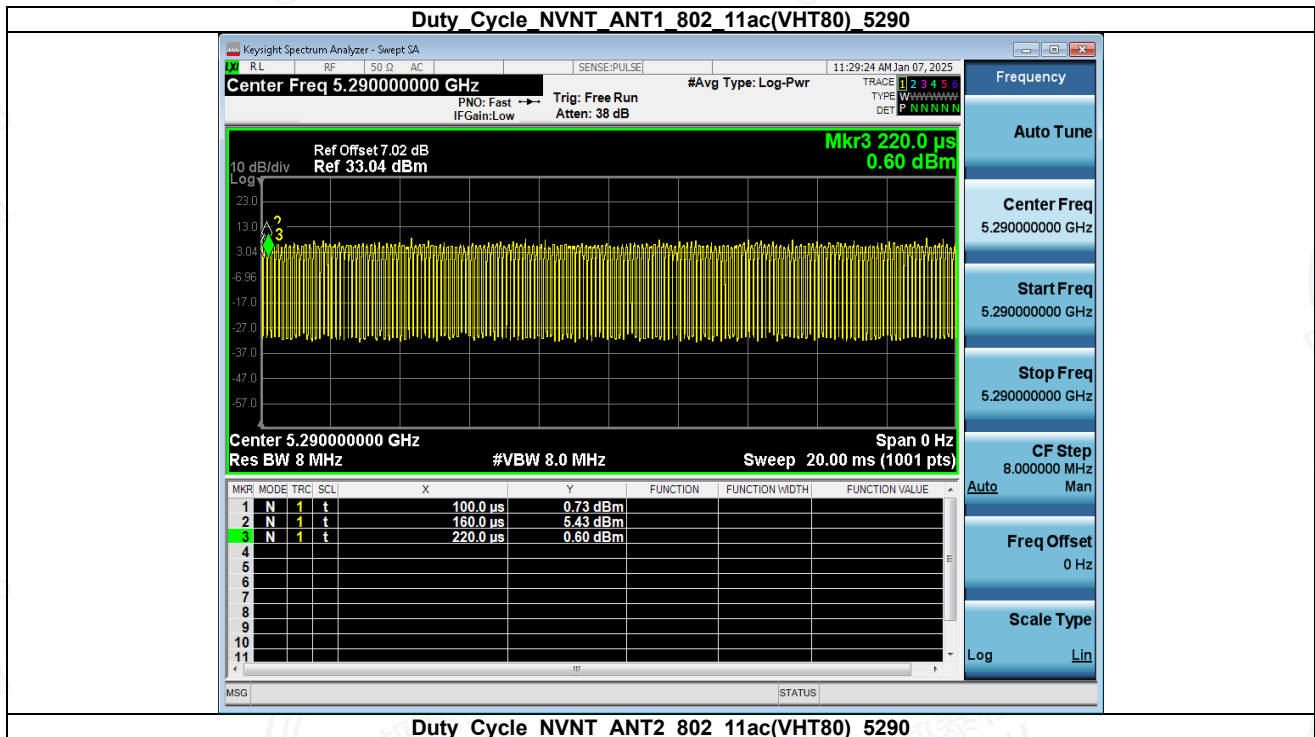
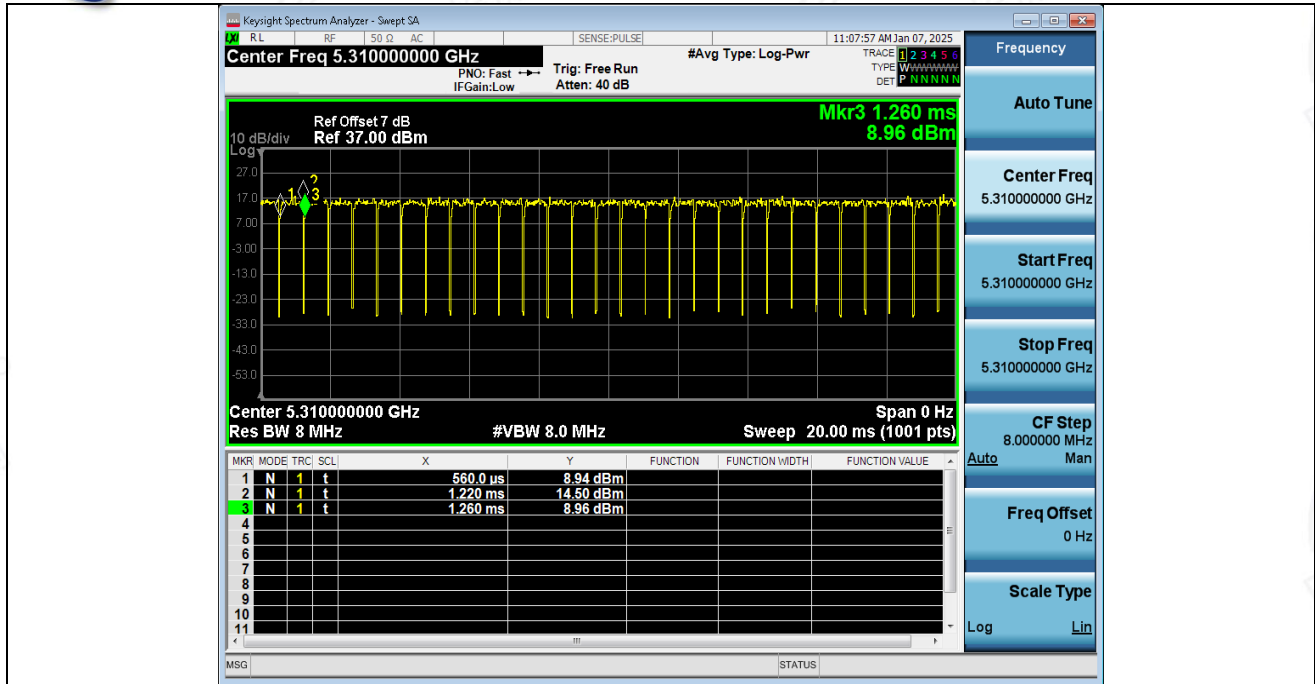


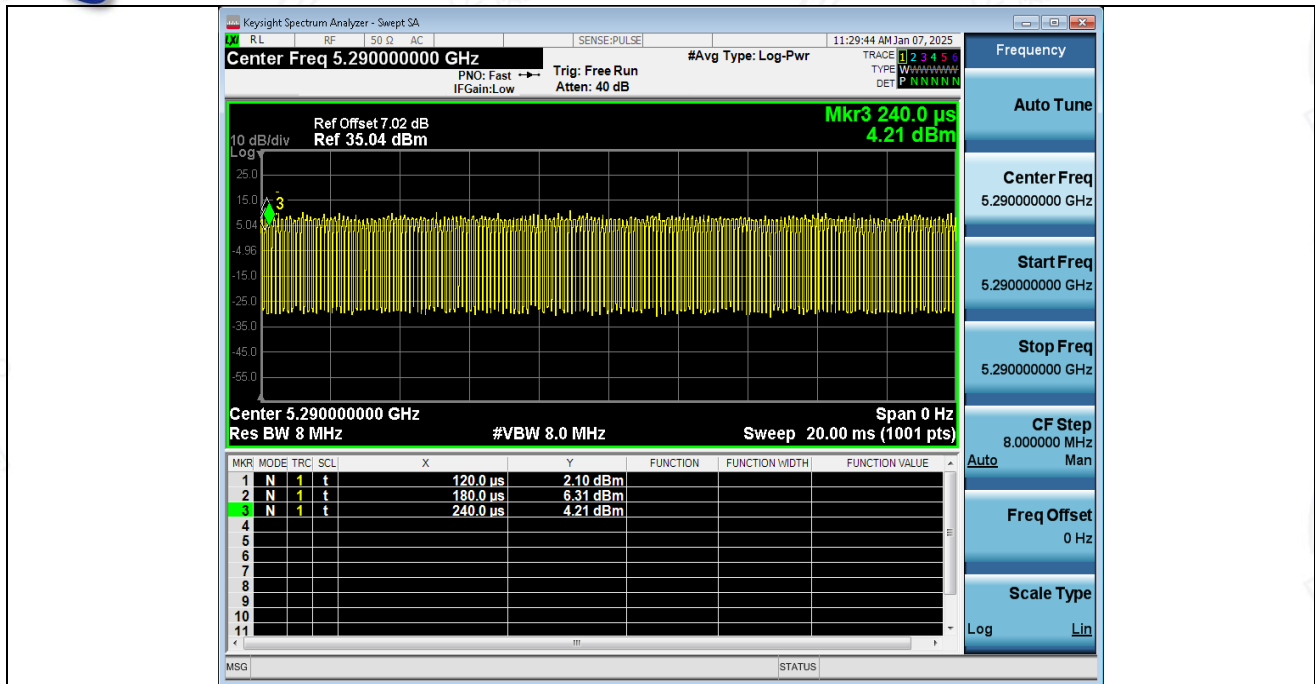






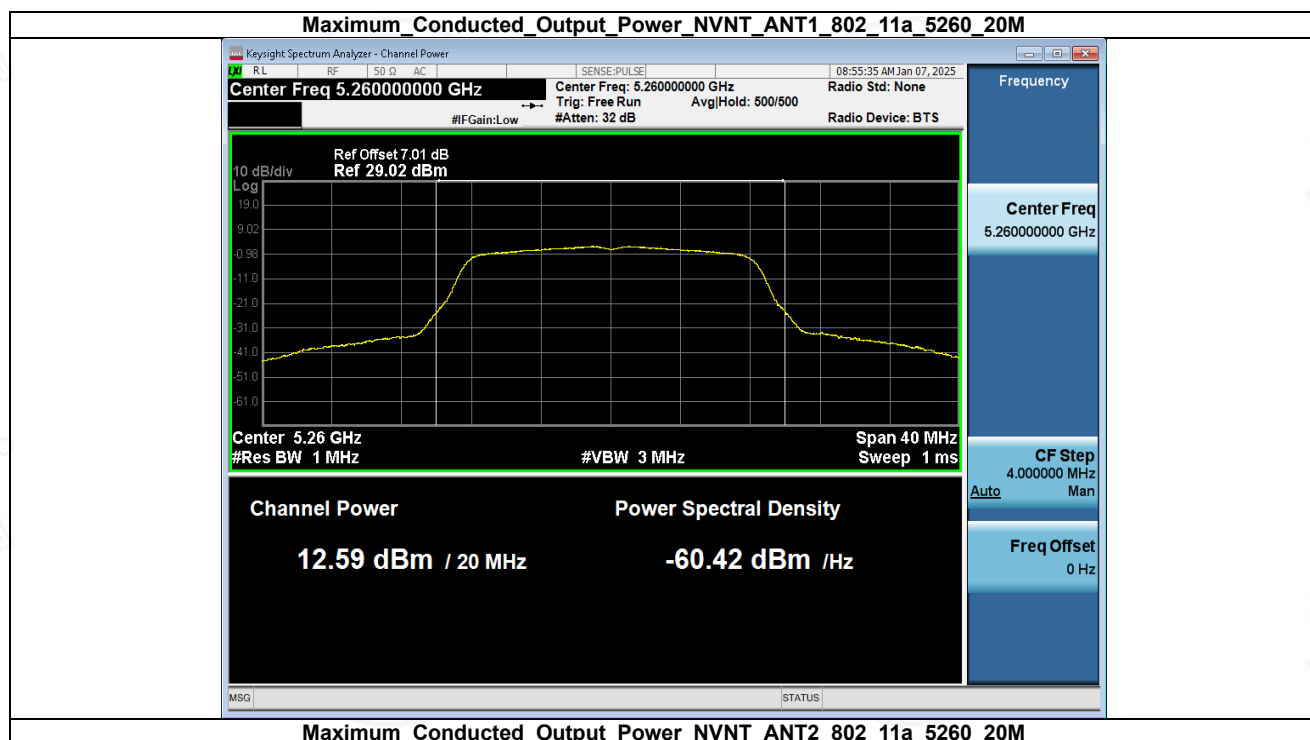


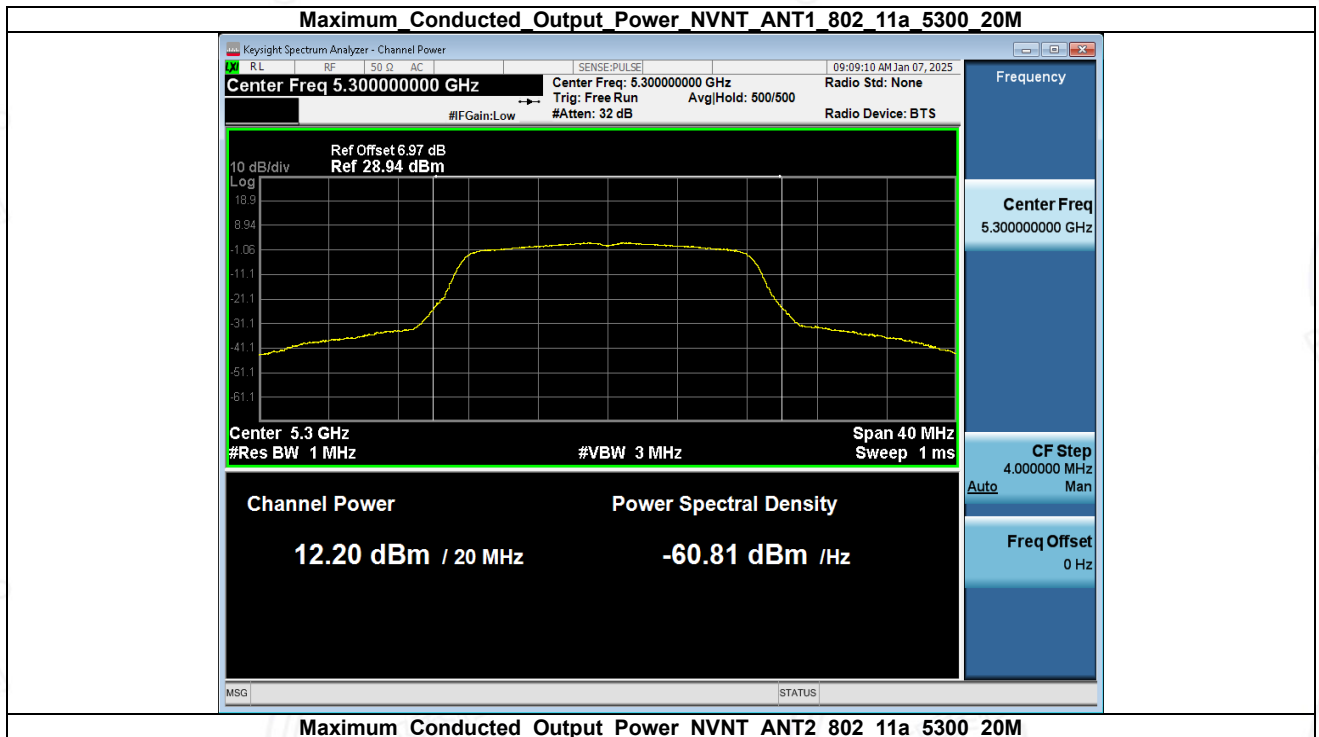
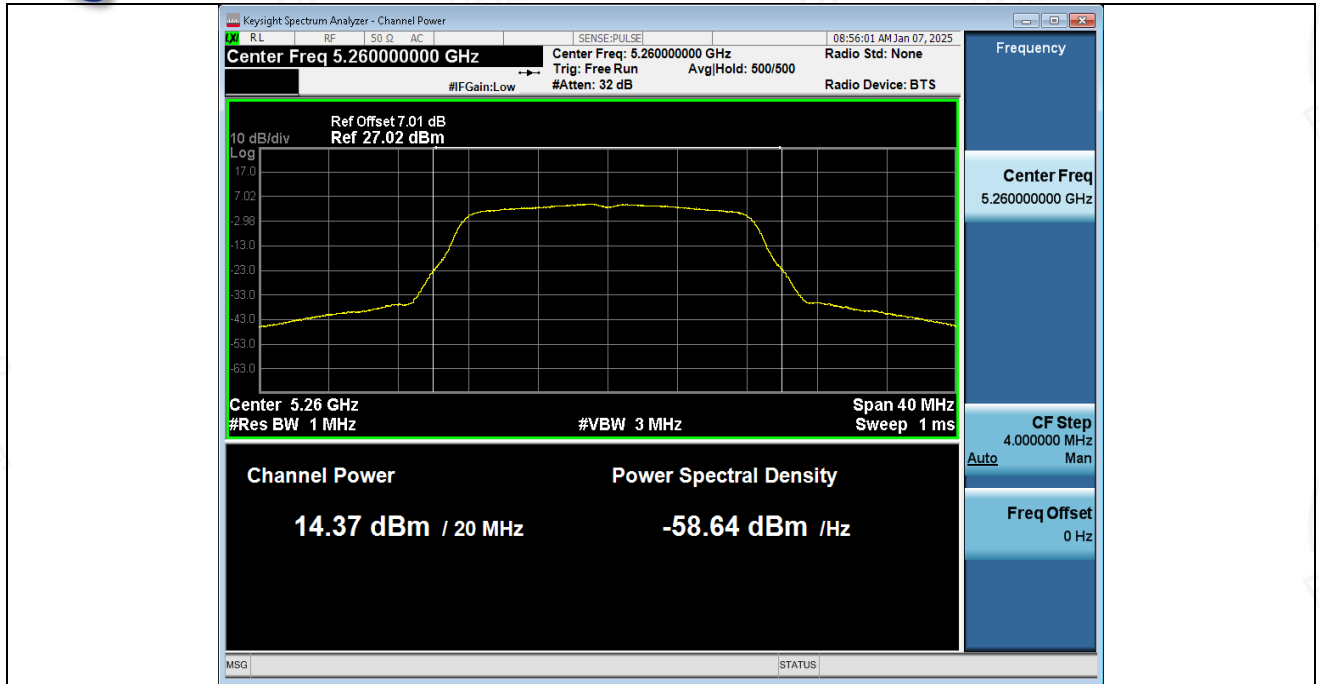


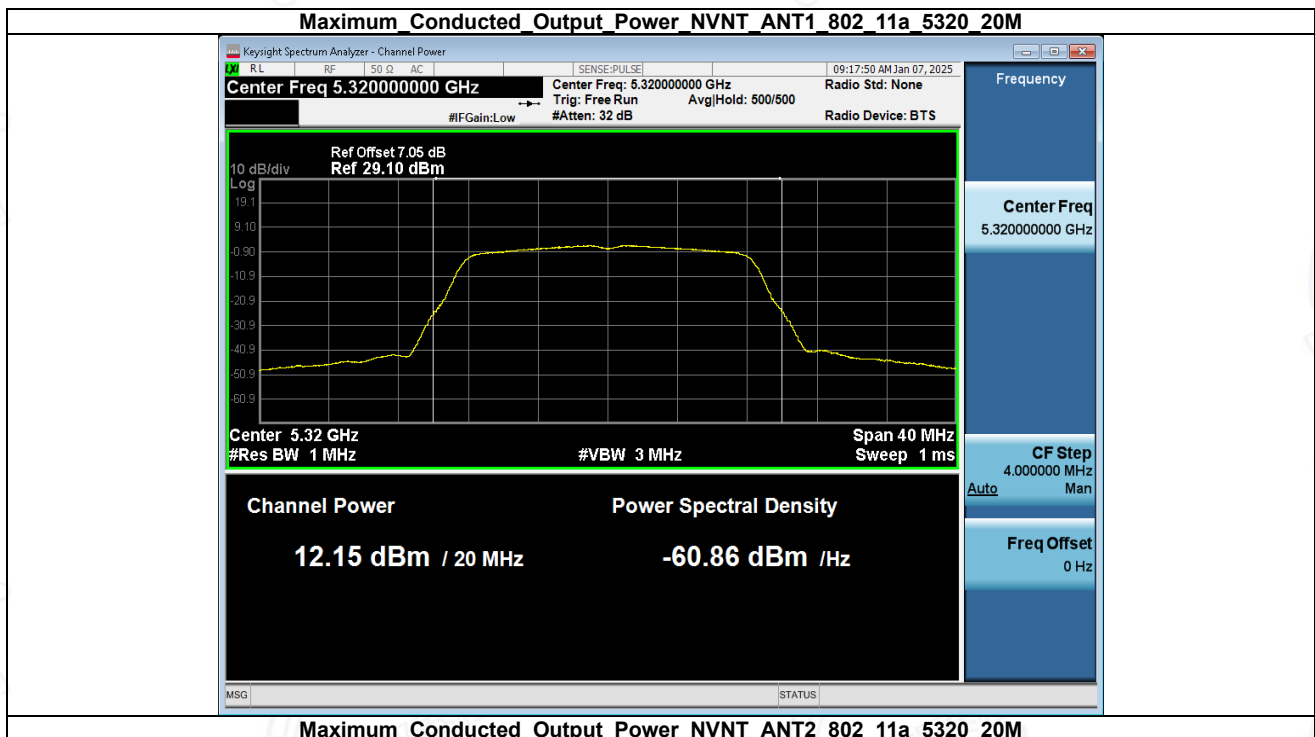
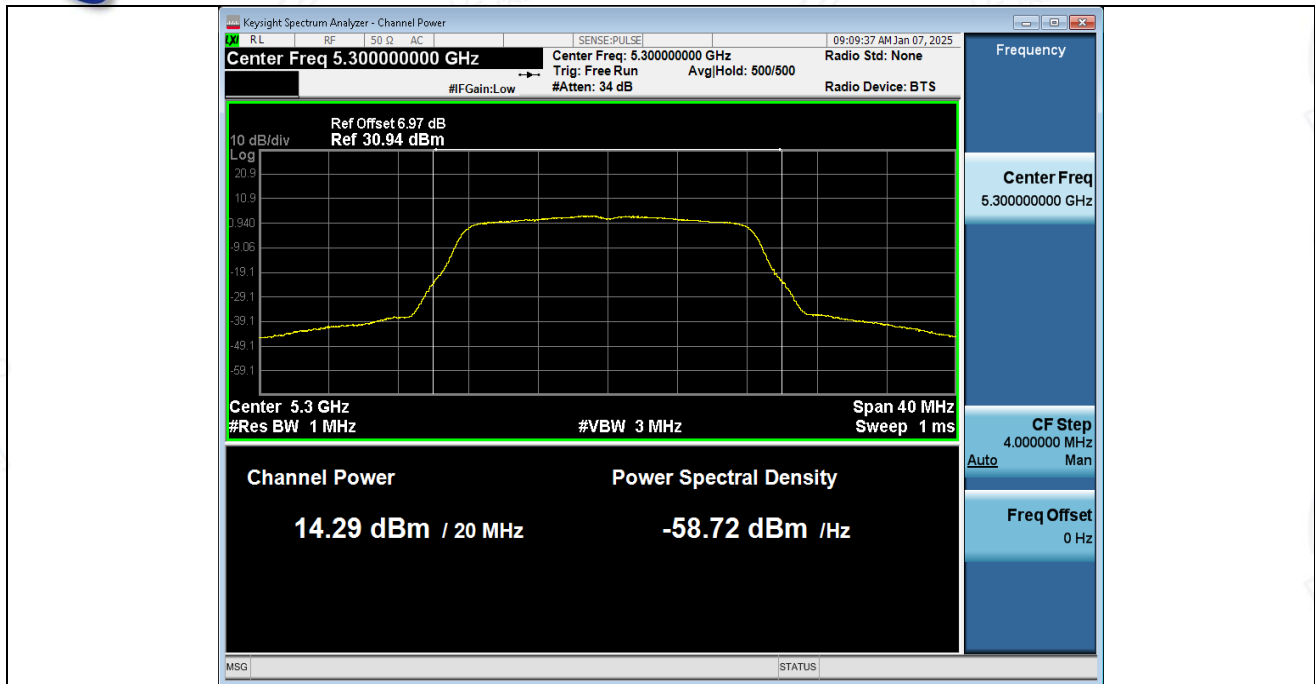


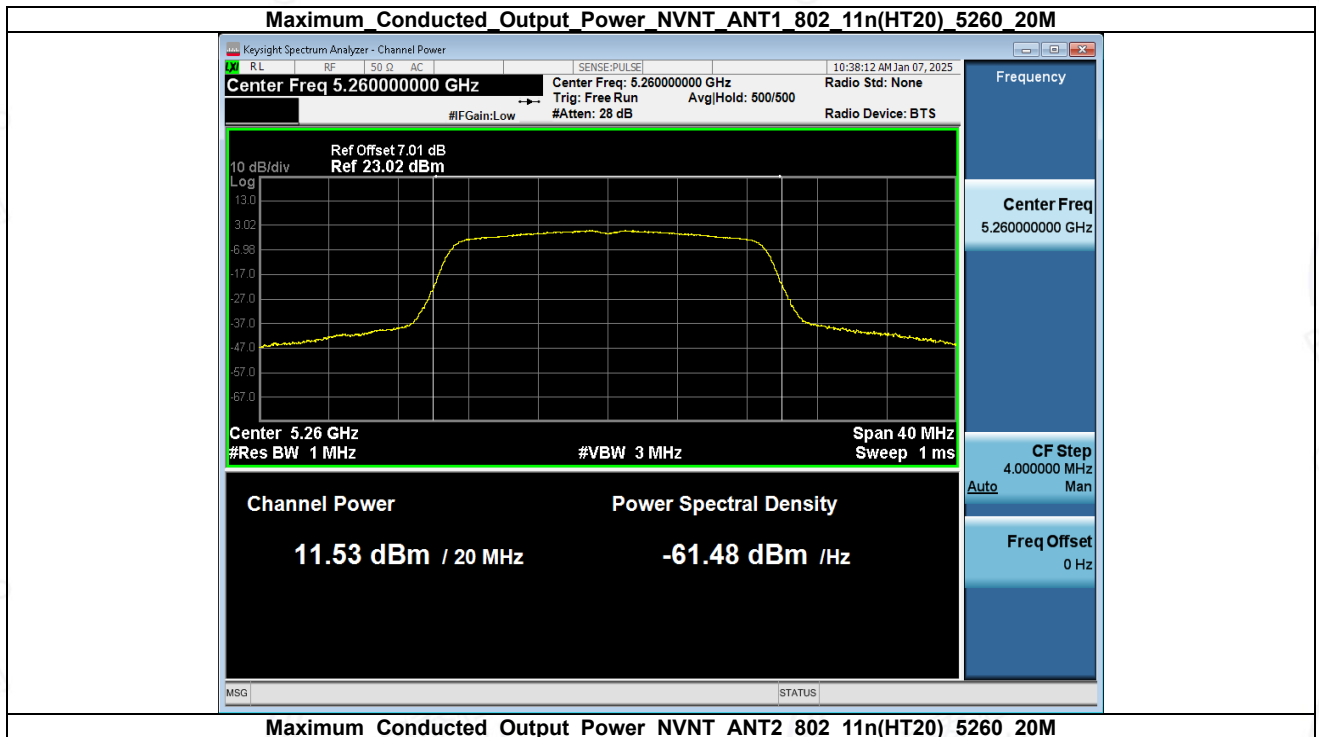
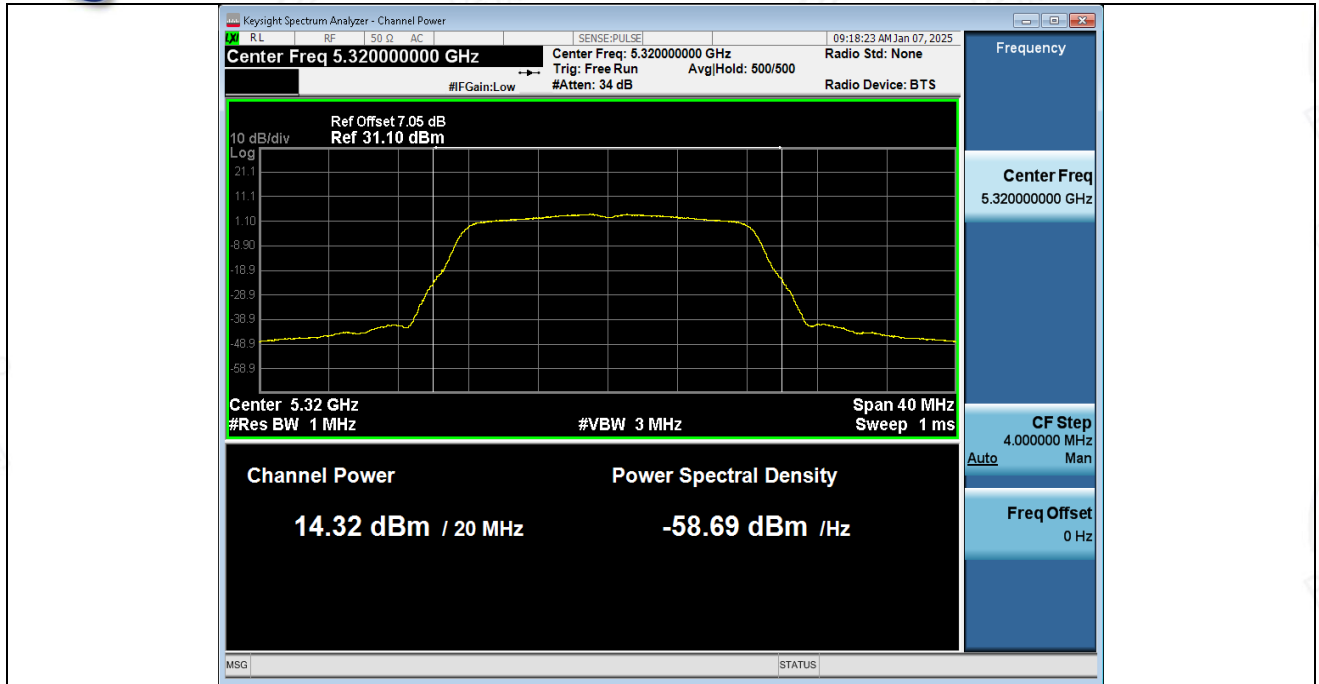
3. Maximum Conducted Output Power

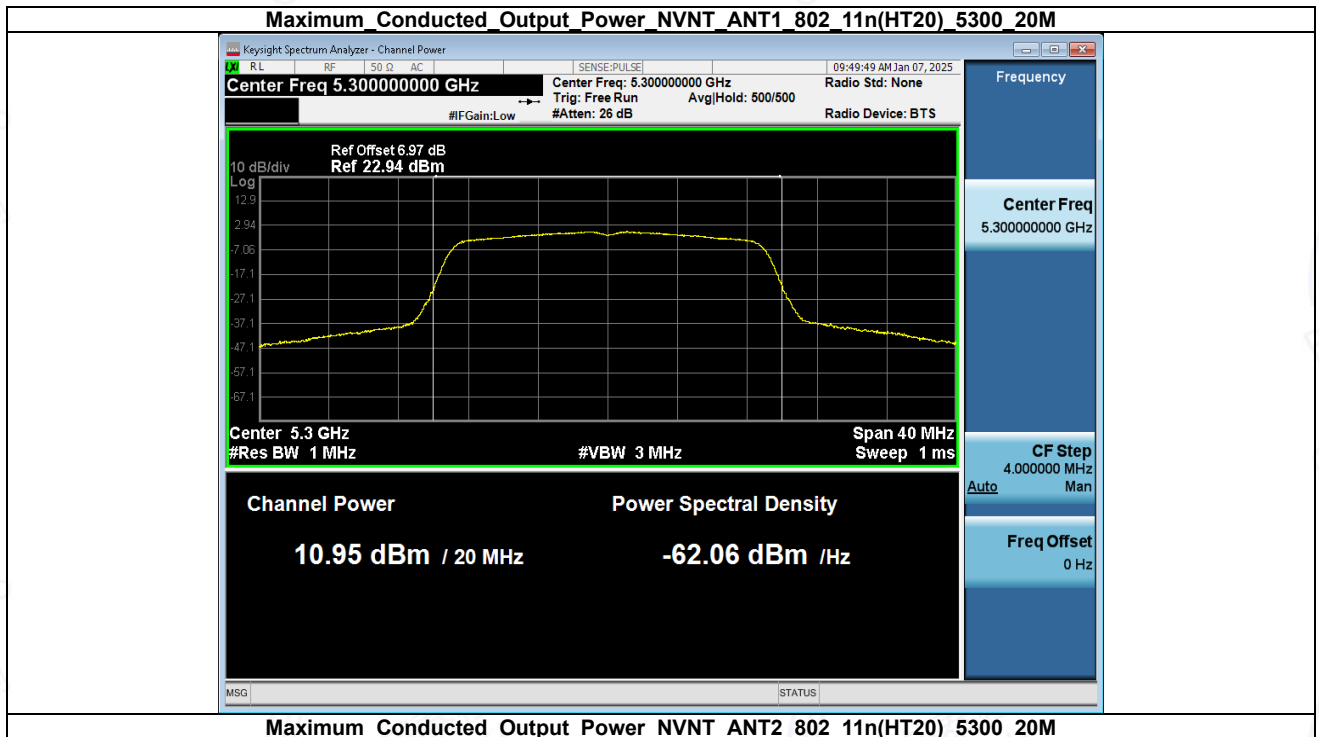
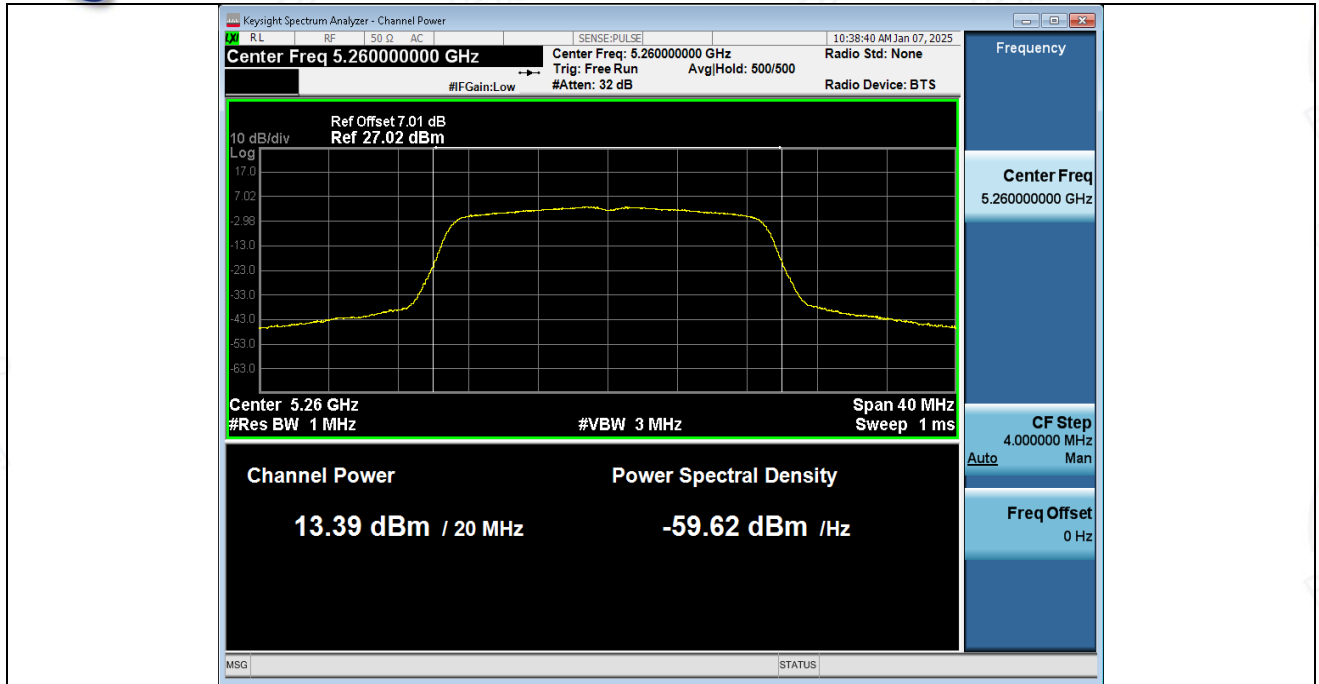
Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5260.00	12.59	0.18	12.77	24	Pass
NVNT	ANT2	802.11a	5260.00	14.37	0.18	14.55	24	Pass
NVNT	ANT1	802.11a	5300.00	12.20	0.18	12.38	24	Pass
NVNT	ANT2	802.11a	5300.00	14.29	0.12	14.41	24	Pass
NVNT	ANT1	802.11a	5320.00	12.15	0.18	12.33	24	Pass
NVNT	ANT2	802.11a	5320.00	14.32	0.18	14.50	24	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	11.53	0.13	11.66	24	Pass
NVNT	ANT2	802.11n(HT20)	5260.00	13.39	0.13	13.52	24	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	10.95	0.20	11.15	24	Pass
NVNT	ANT2	802.11n(HT20)	5300.00	13.09	0.13	13.22	24	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	11.01	0.20	11.21	24	Pass
NVNT	ANT2	802.11n(HT20)	5320.00	13.33	0.20	13.53	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	11.52	0.20	11.72	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5260.00	13.41	0.20	13.61	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	10.94	0.20	11.14	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5300.00	13.07	0.20	13.27	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	11.01	0.20	11.21	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5320.00	13.35	0.20	13.55	24	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	11.32	0.39	11.71	24	Pass
NVNT	ANT2	802.11n(HT40)	5270.00	13.15	0.39	13.54	24	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	11.20	0.39	11.59	24	Pass
NVNT	ANT2	802.11n(HT40)	5310.00	13.27	0.26	13.53	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	11.35	0.26	11.61	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5270.00	13.27	0.26	13.53	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	11.22	0.26	11.48	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5310.00	13.32	0.26	13.58	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	5.71	3.01	8.72	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5290.00	7.66	3.01	10.67	24	Pass

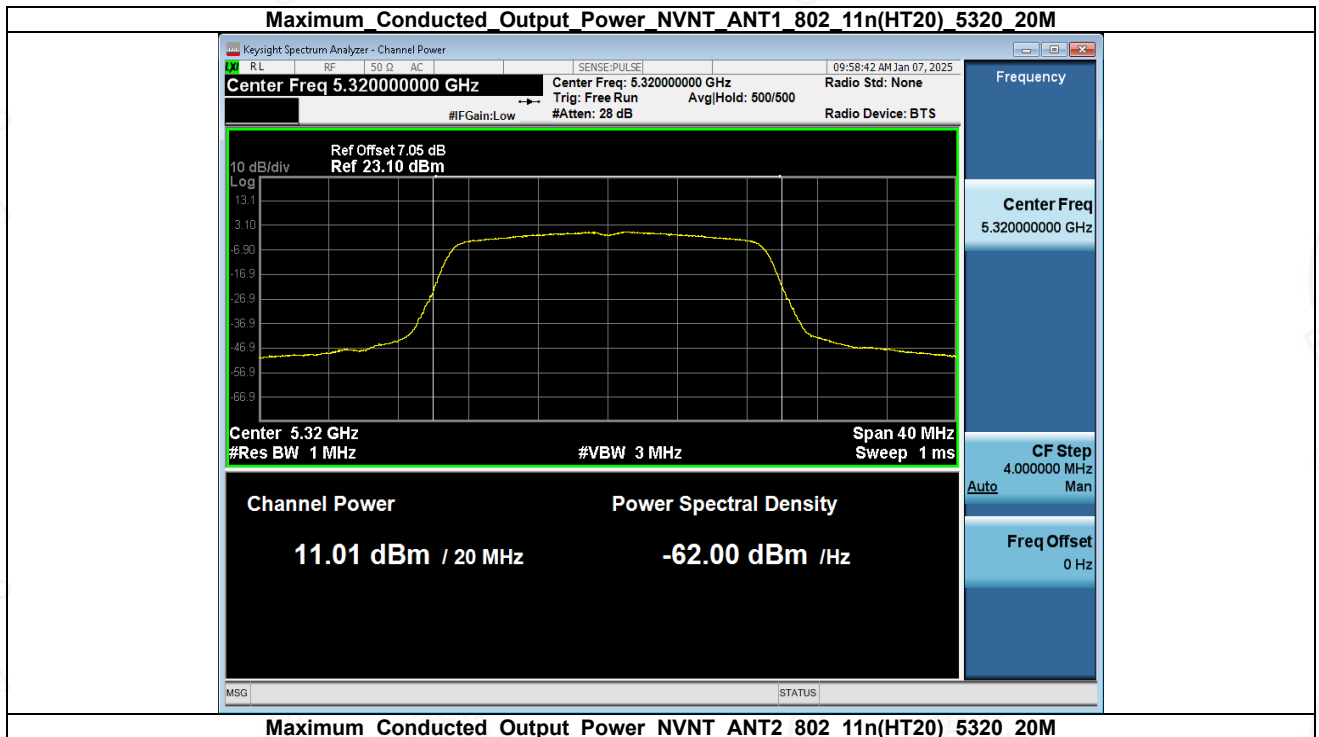
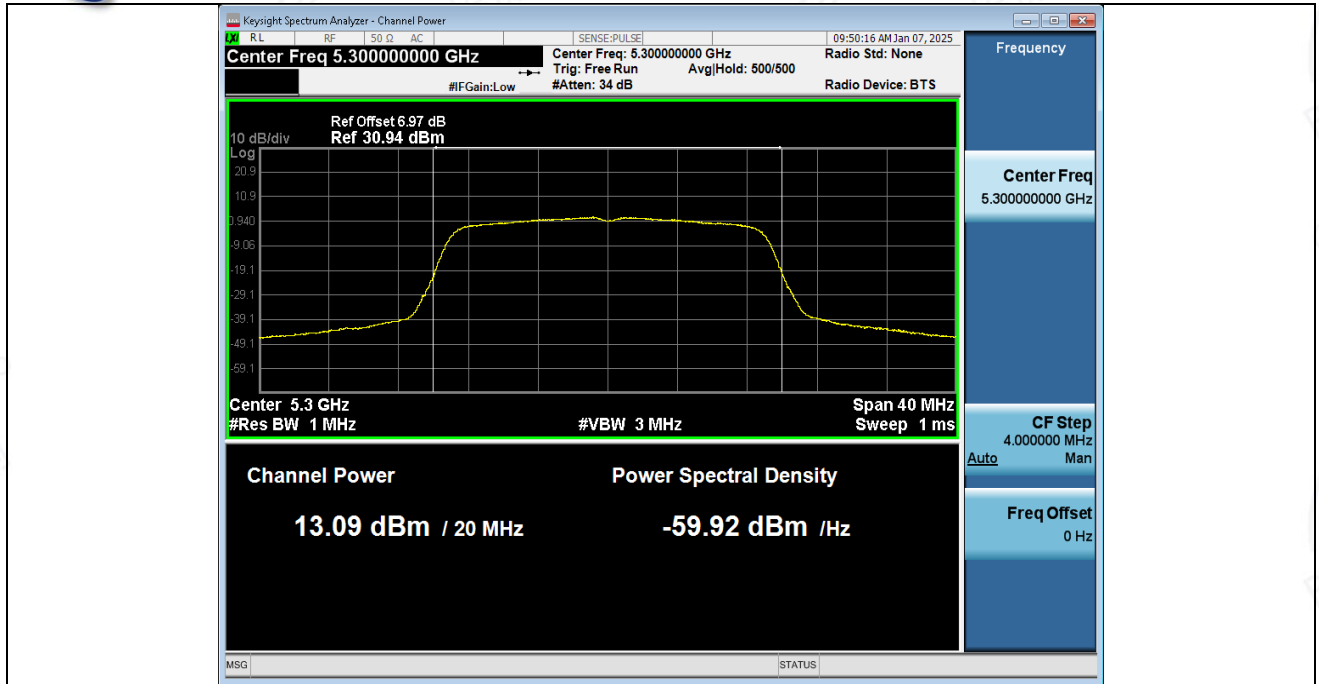


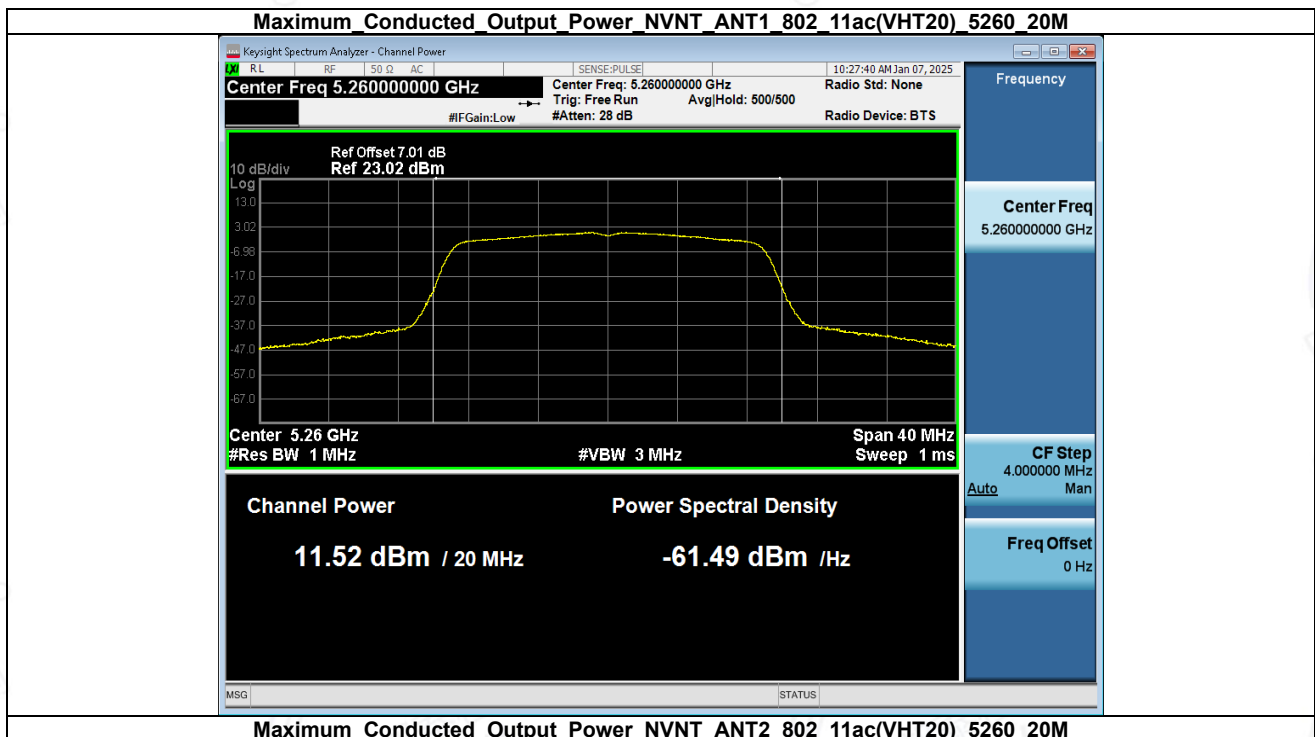
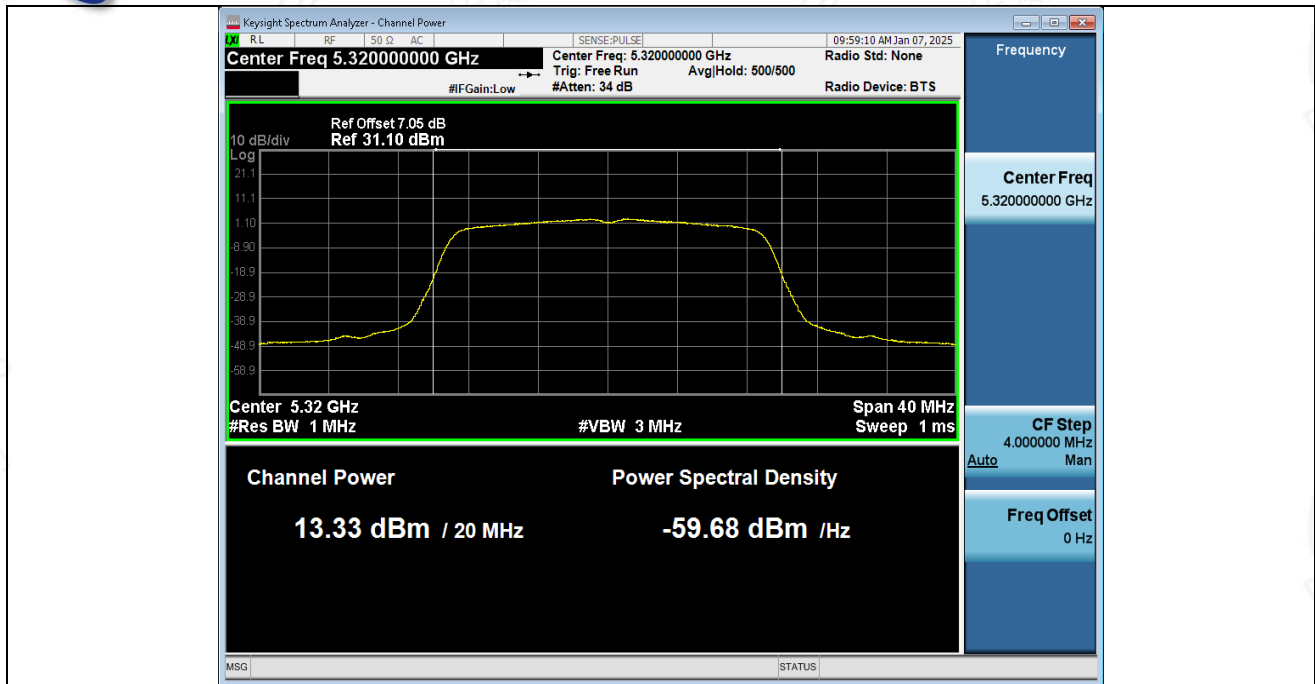


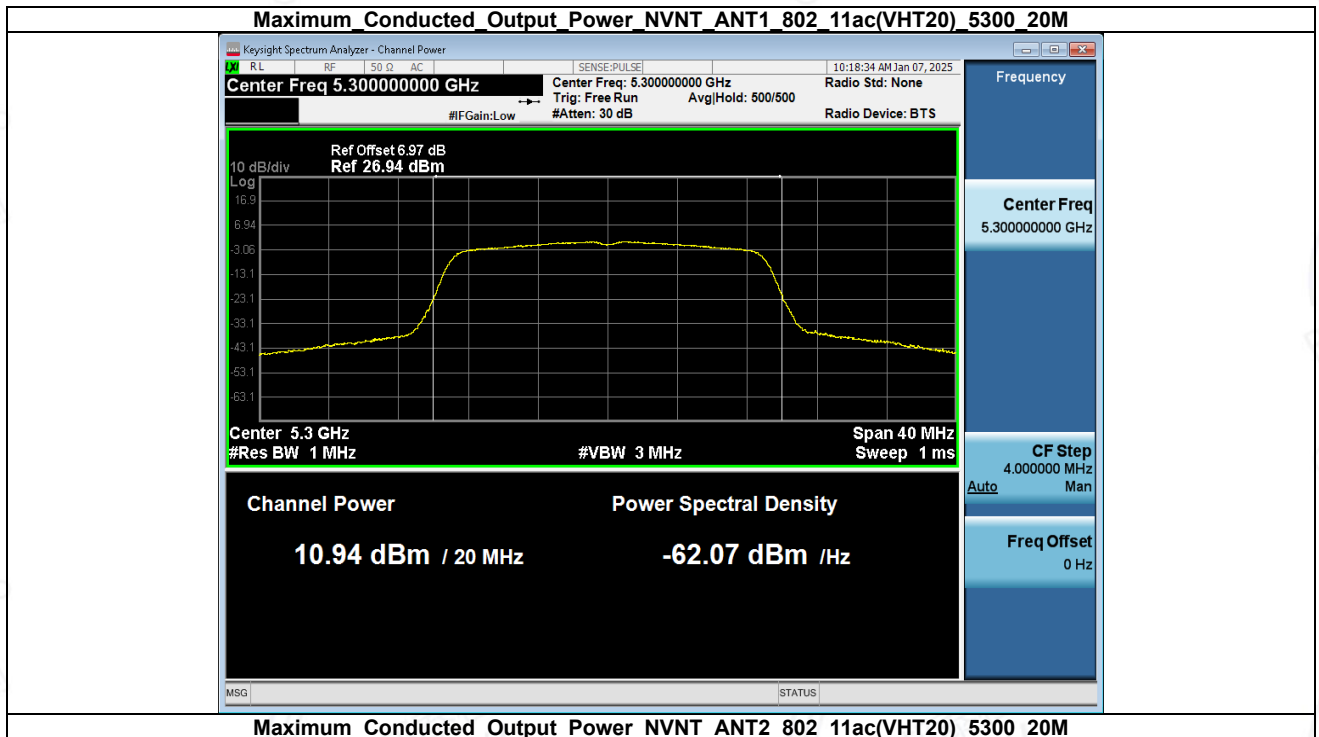
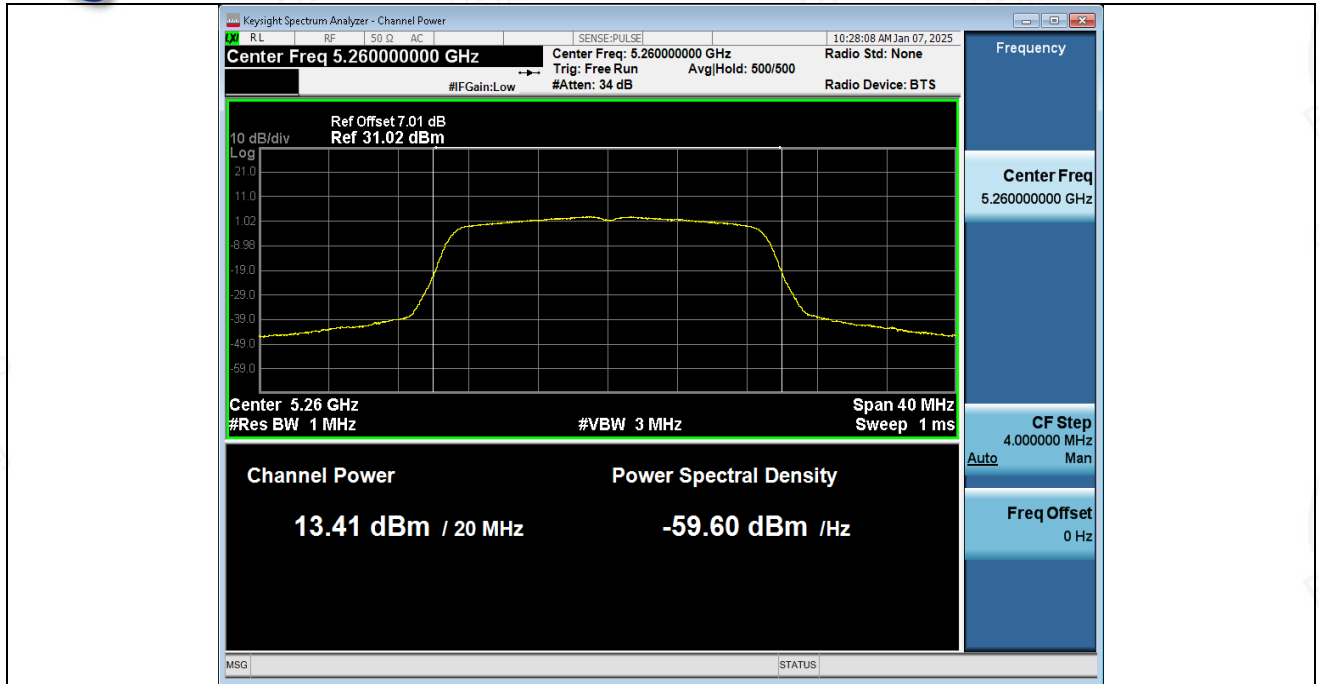


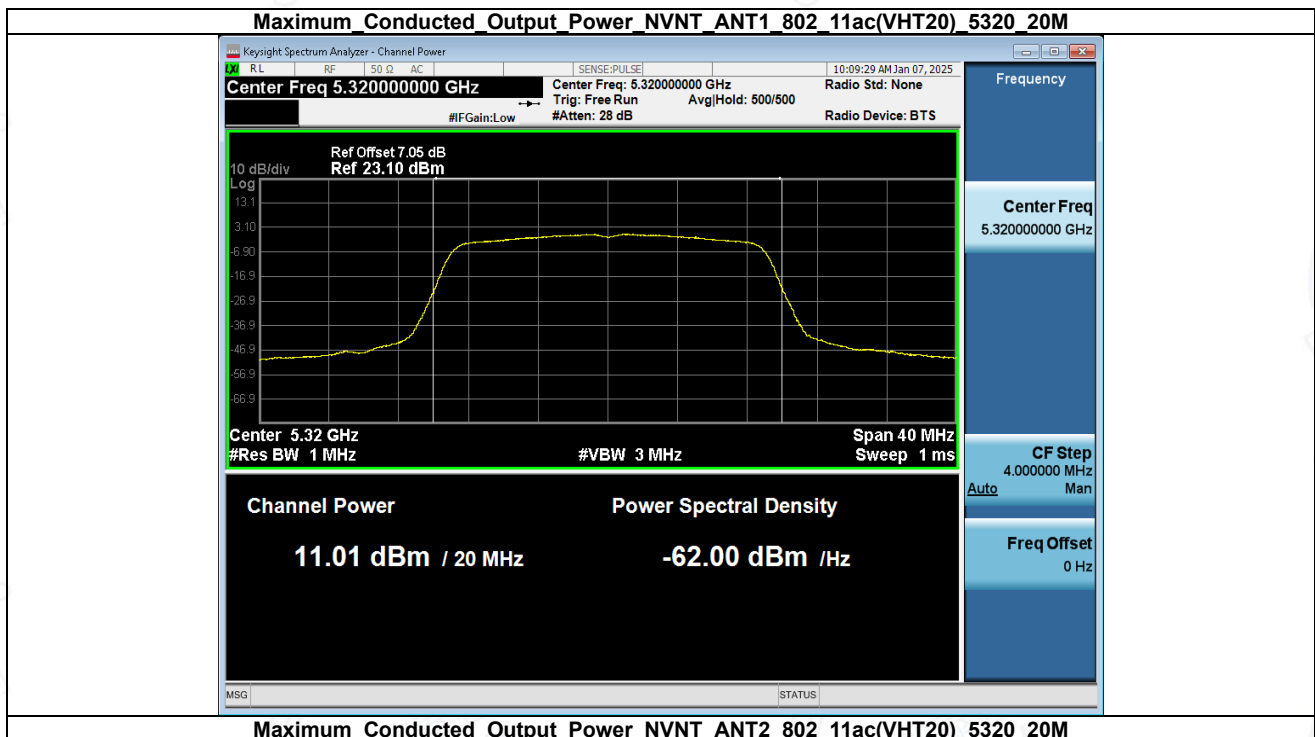
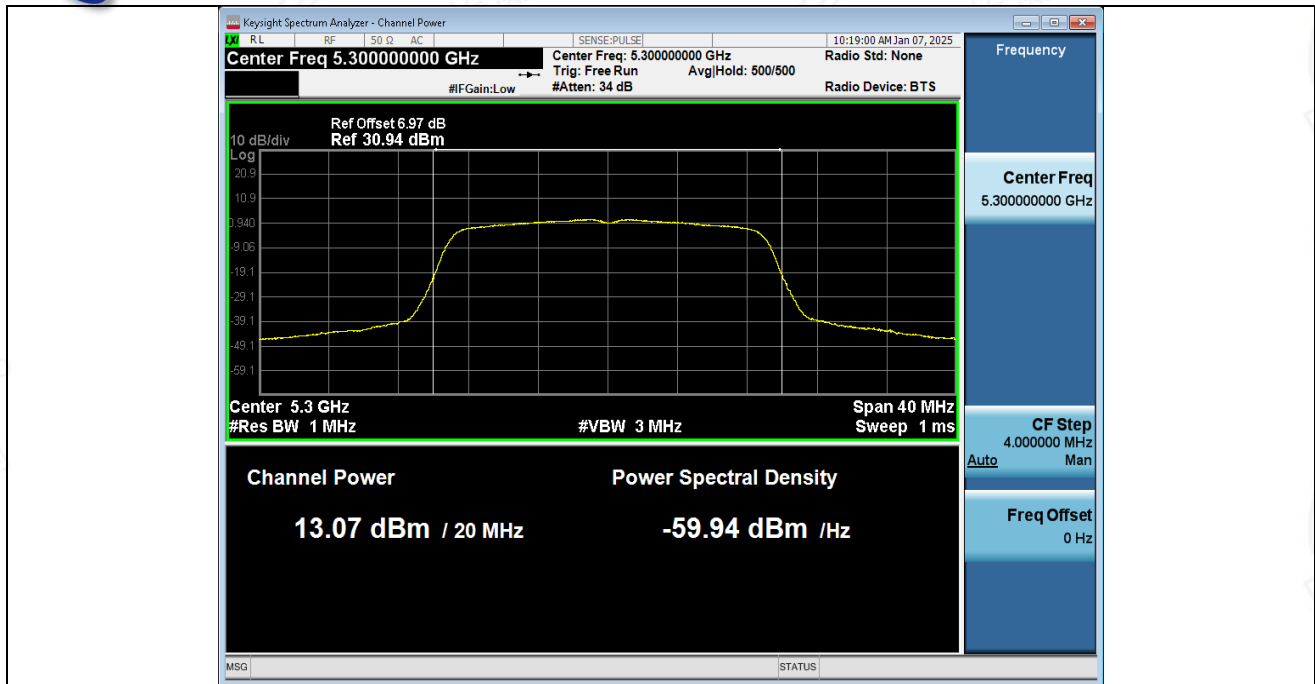


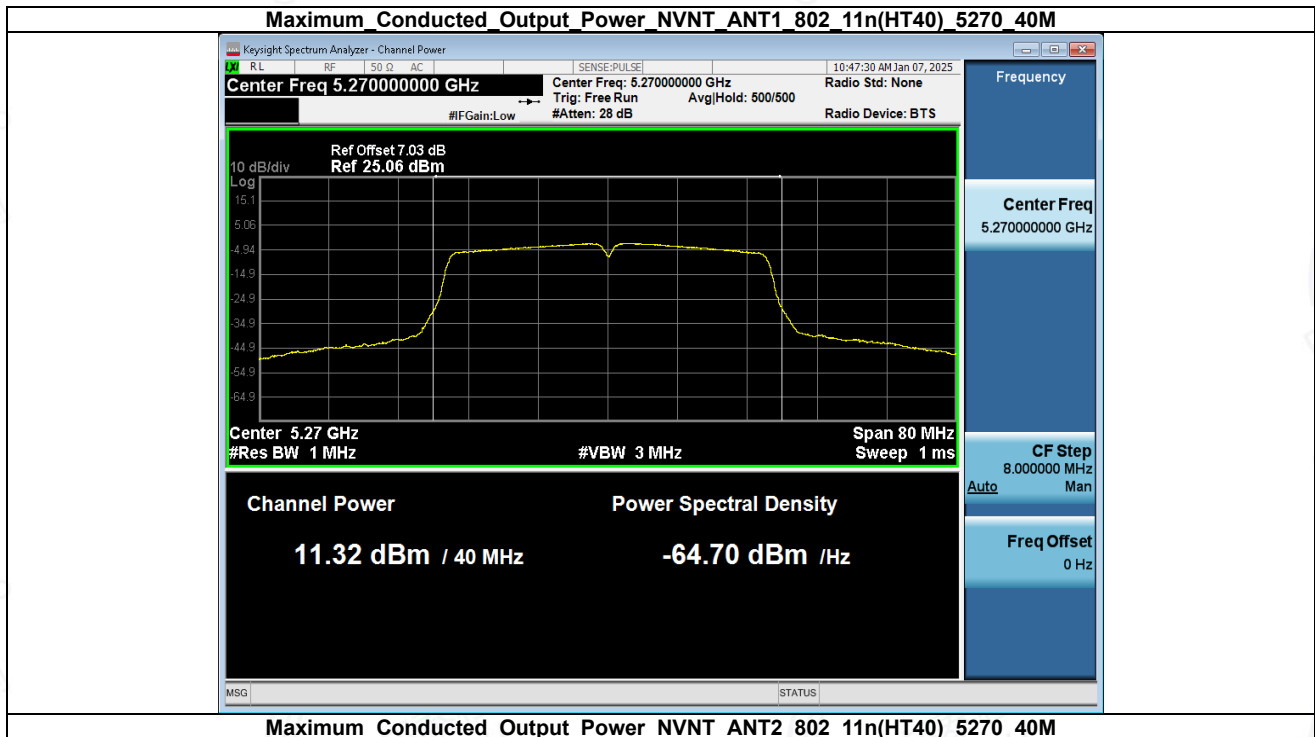
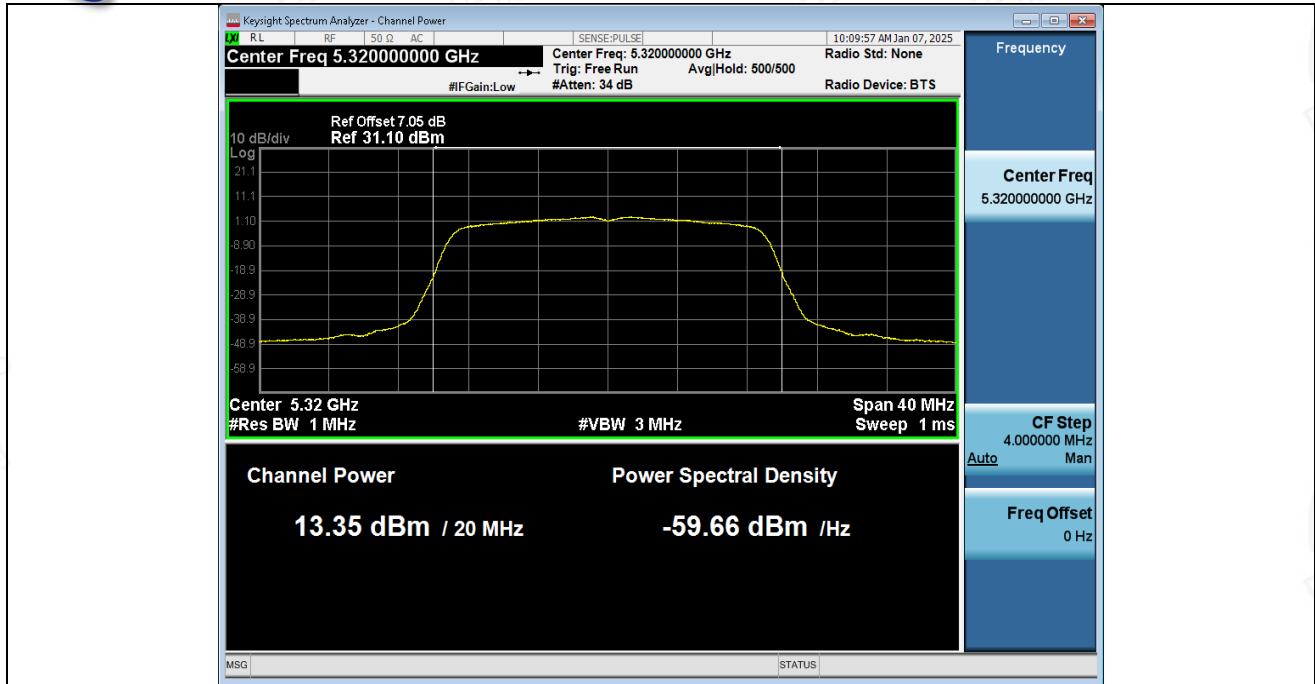


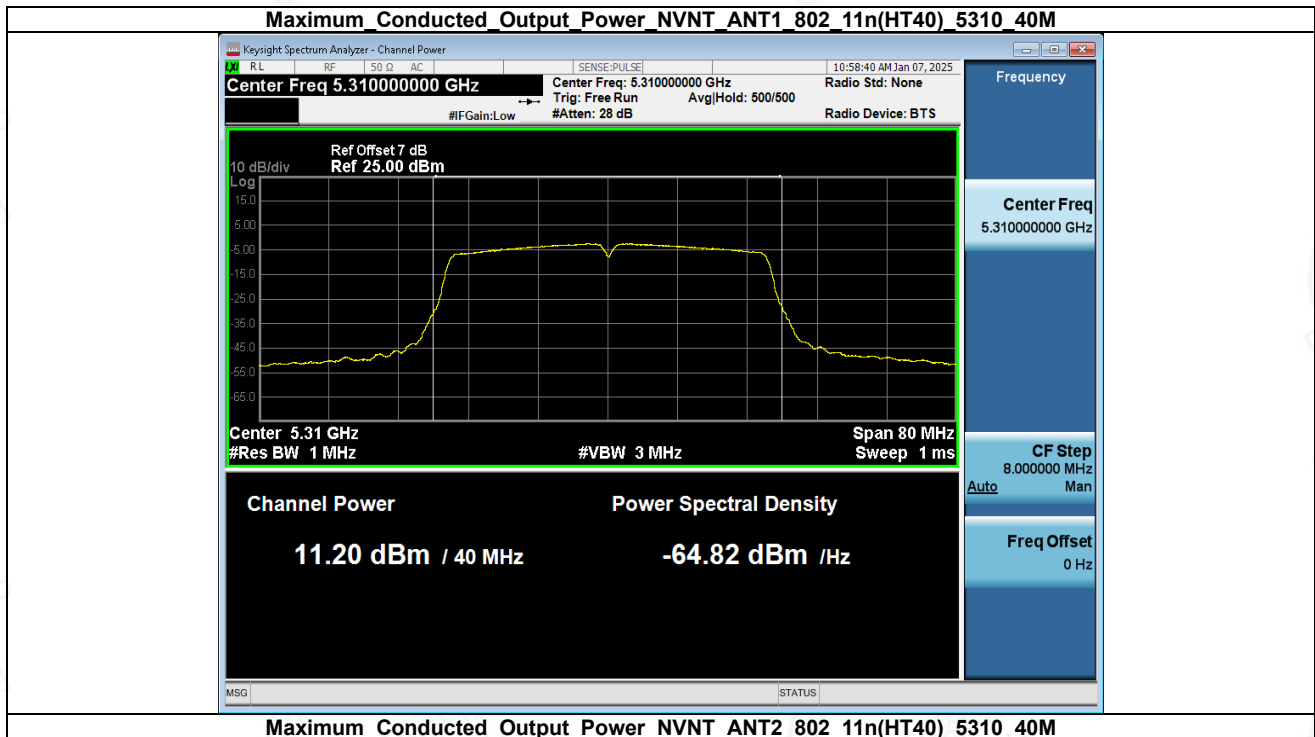
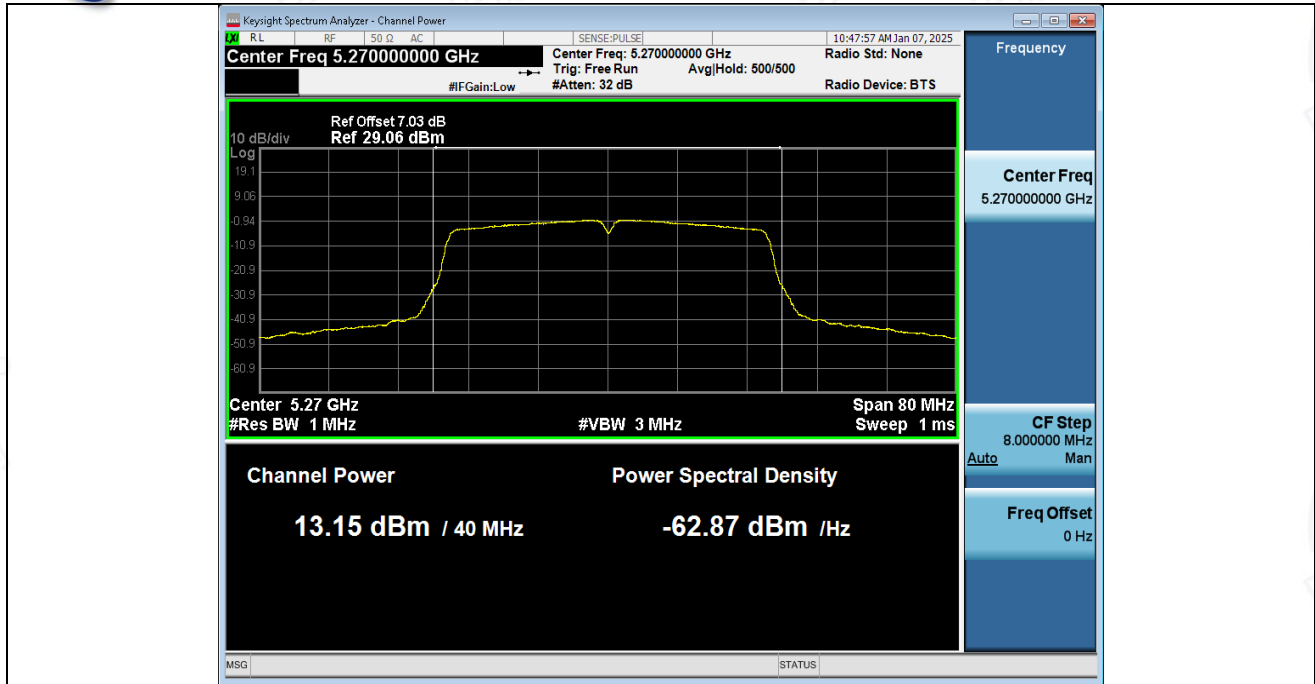


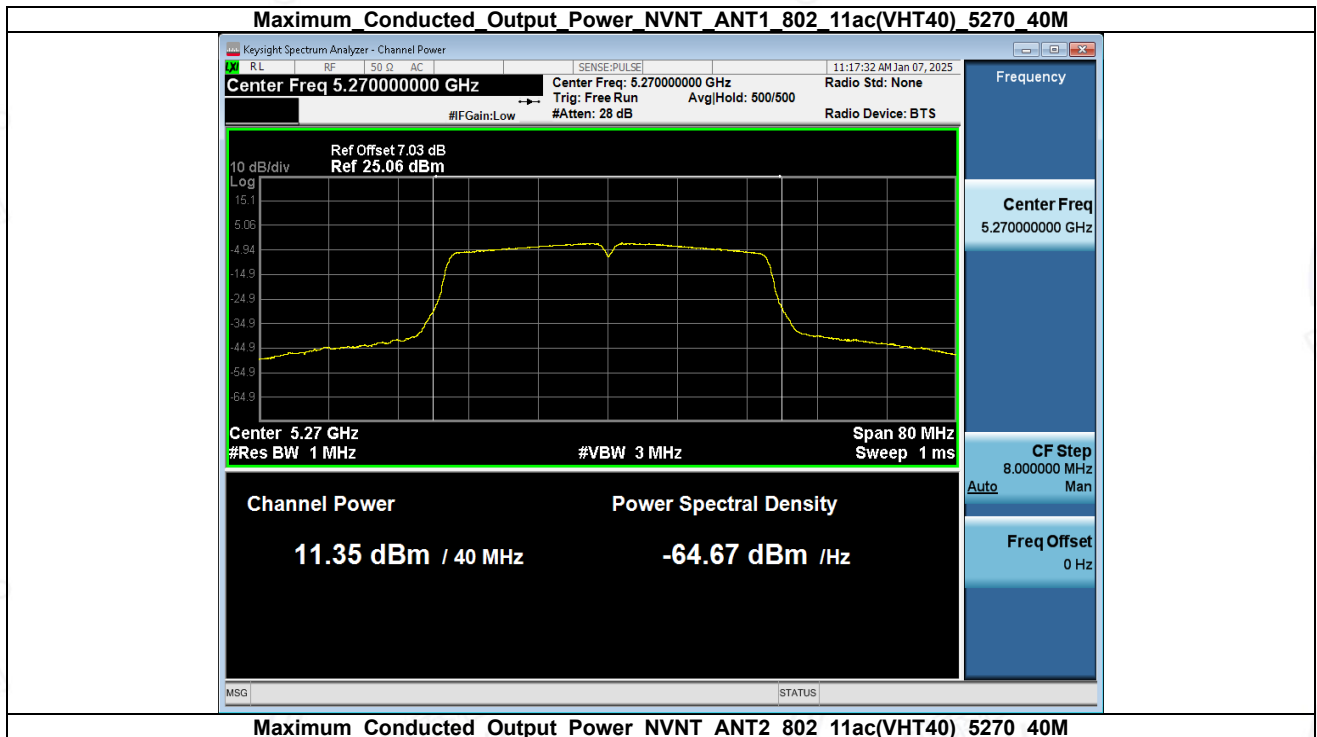
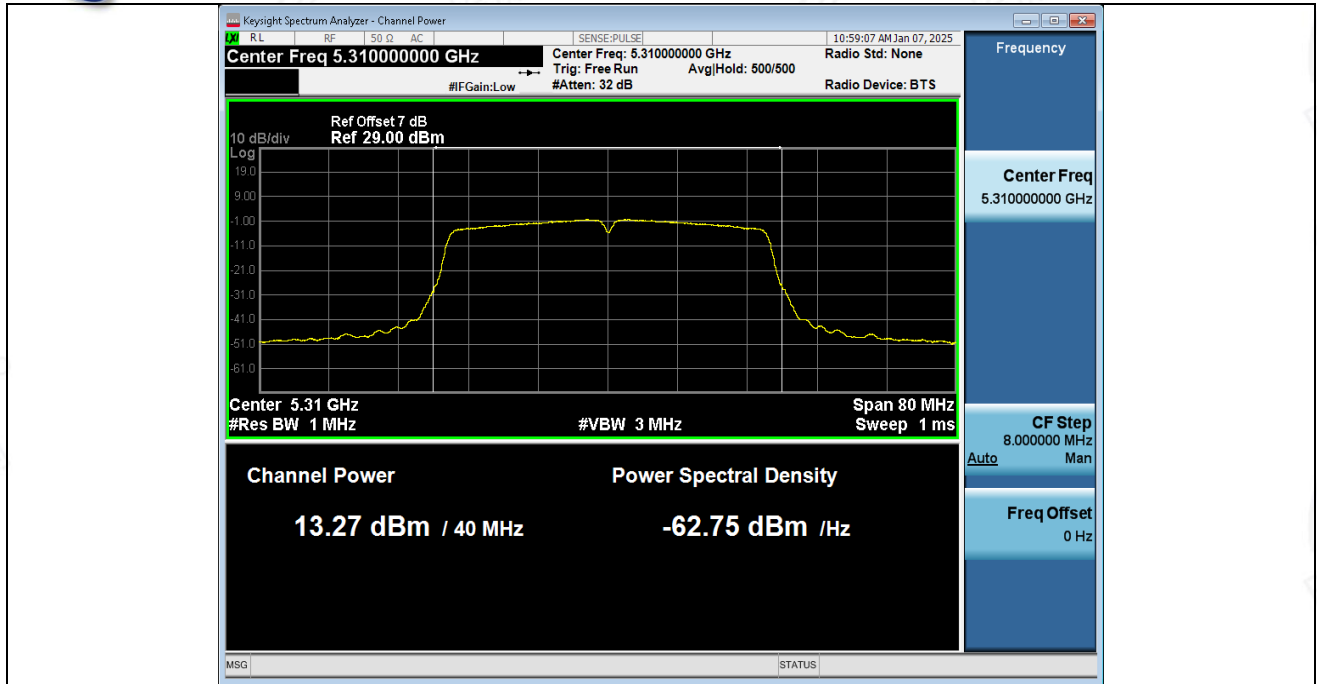


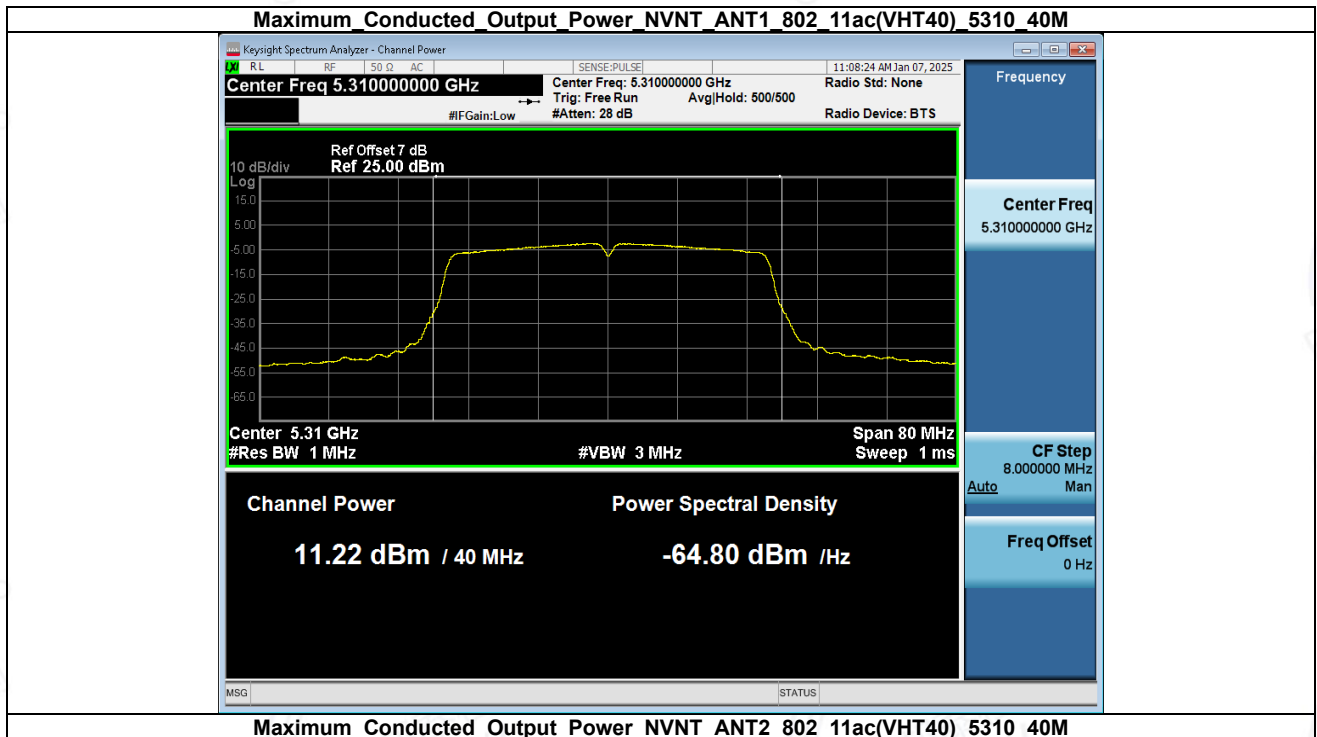
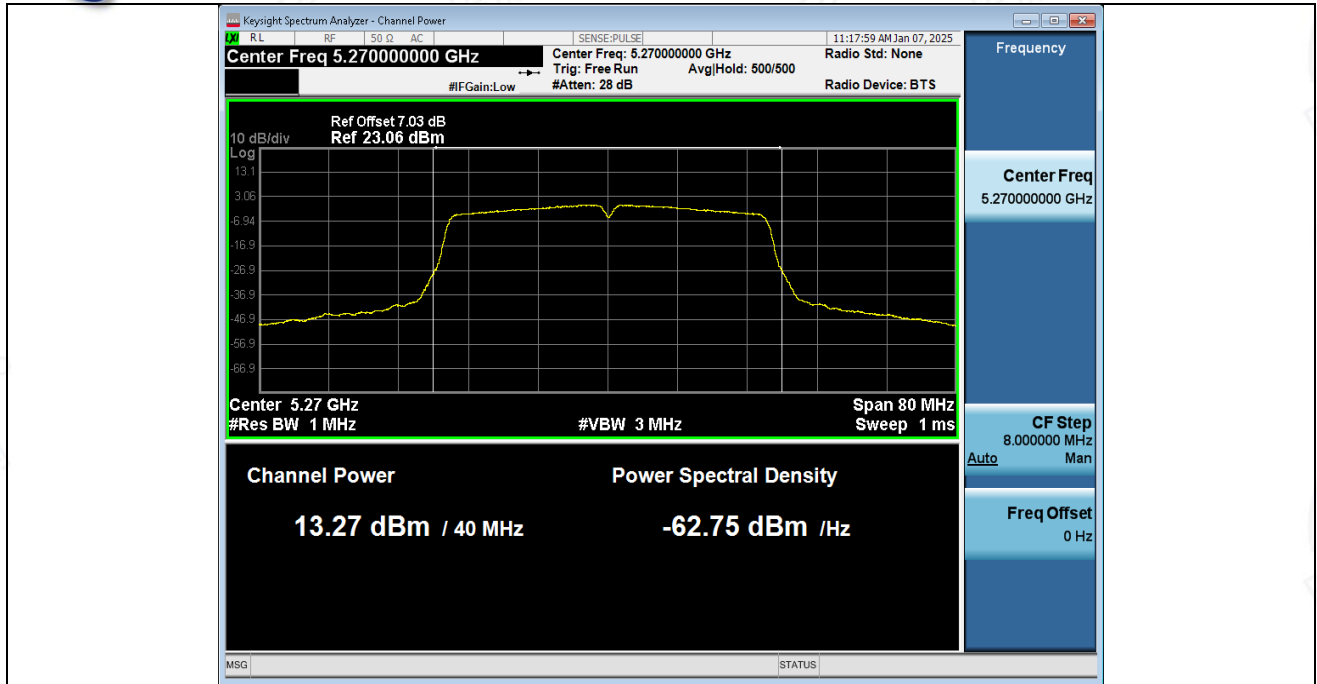


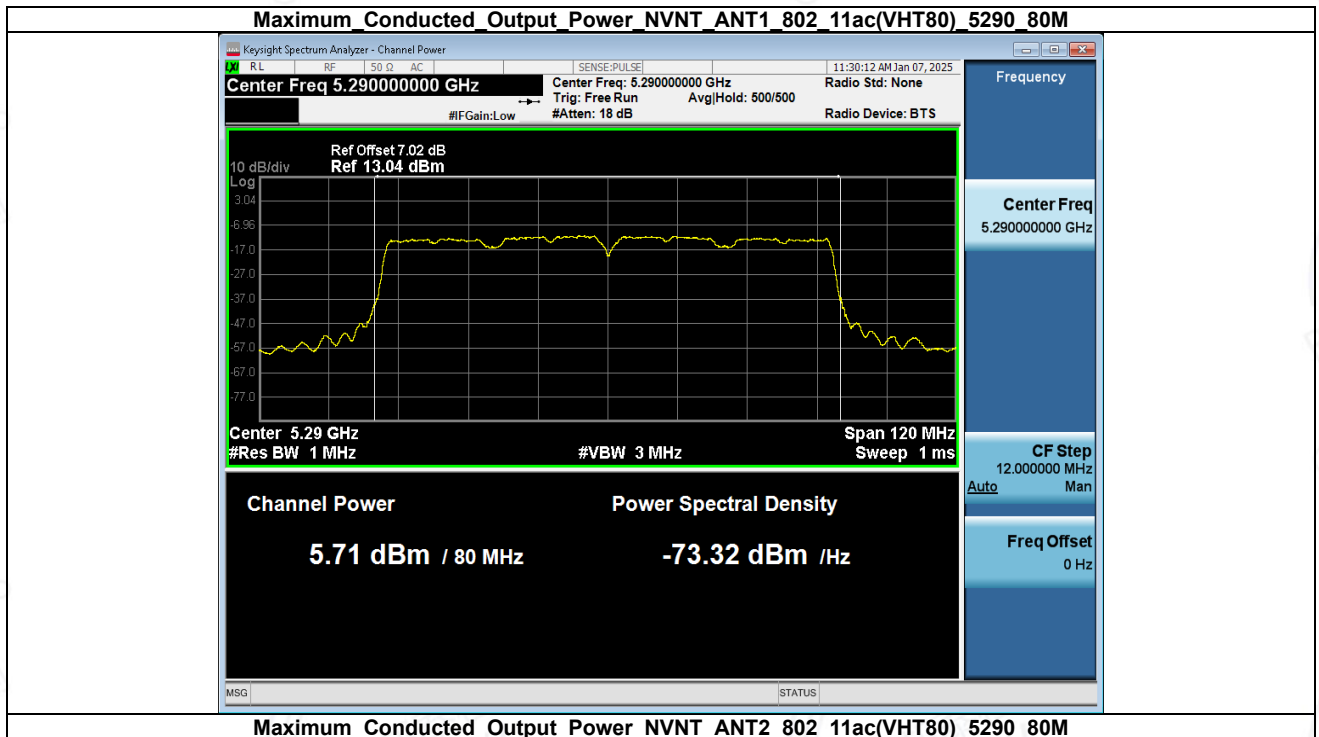
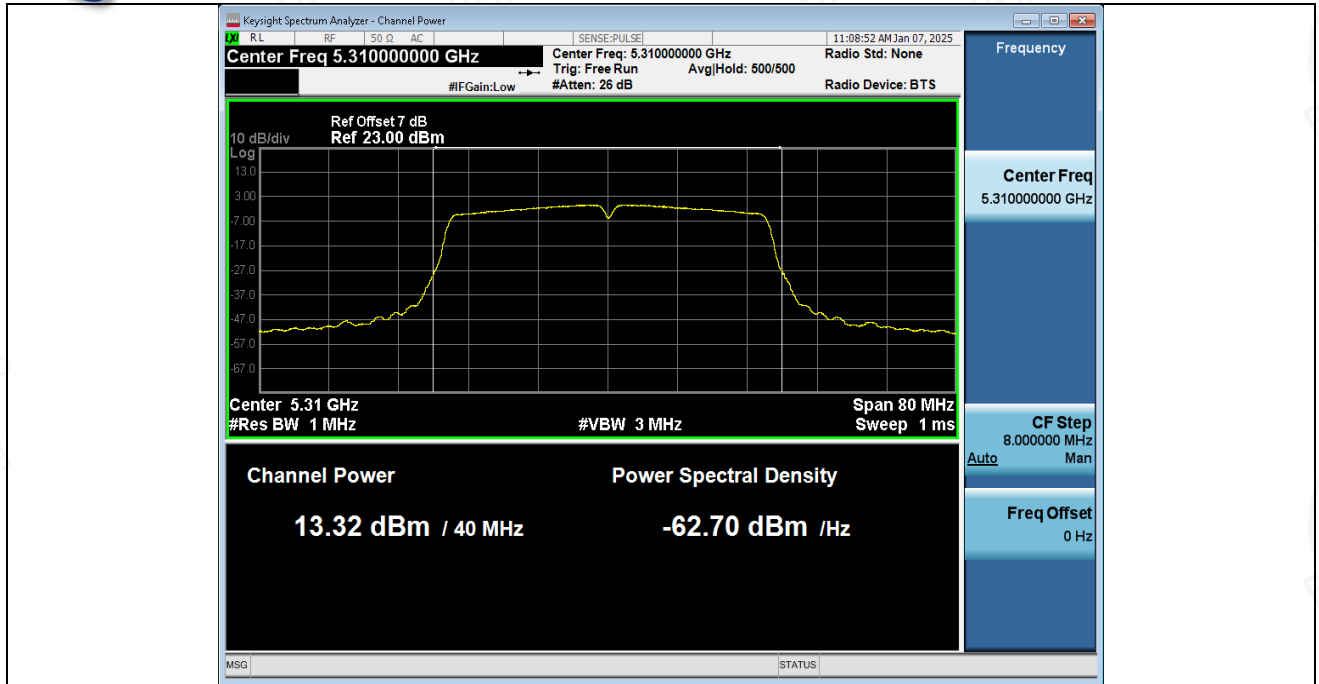


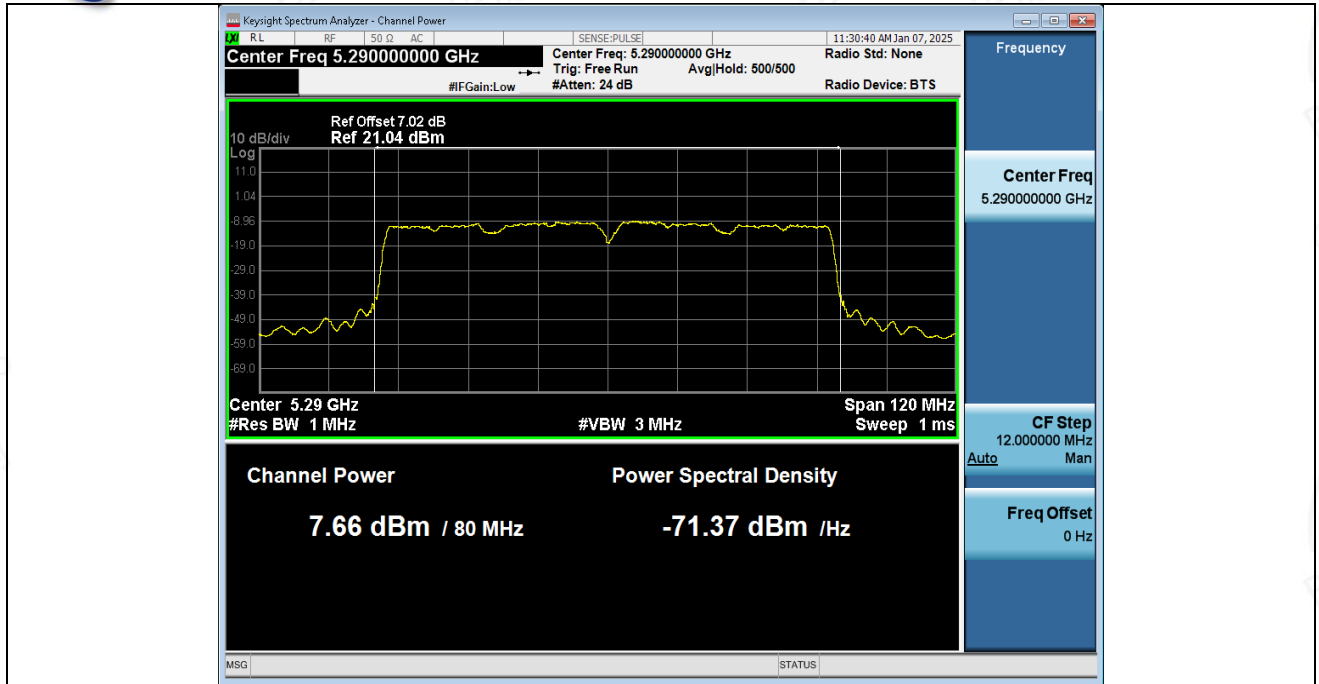












Condition	Antenna	Mode	Frequency(MHz)	MIMO_Conducted_Power(dBm)	Limit(dBm)	Result
NVNT	MIMO_TX	802.11n(HT20)	5260.00	15.70	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5300.00	15.32	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5320.00	15.53	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5260.00	15.77	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5300.00	15.34	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5320.00	15.55	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5270.00	15.73	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5310.00	15.68	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5270.00	15.69	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5310.00	15.67	30	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5290.00	12.81	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	5260.00	-0.38	0.18	-0.20	11	Pass
NVNT	ANT2	802.11a	5260.00	0.88	0.18	1.06	11	Pass
NVNT	ANT1	802.11a	5300.00	-0.72	0.18	-0.54	11	Pass
NVNT	ANT2	802.11a	5300.00	0.44	0.12	0.56	11	Pass
NVNT	ANT1	802.11a	5320.00	-1.88	0.18	-1.70	11	Pass
NVNT	ANT2	802.11a	5320.00	0.82	0.18	1.00	11	Pass
NVNT	ANT1	802.11n(HT20)	5260.00	-2.45	0.13	-2.32	11	Pass
NVNT	ANT2	802.11n(HT20)	5260.00	-0.27	0.13	-0.14	11	Pass
NVNT	ANT1	802.11n(HT20)	5300.00	-2.84	0.20	-2.64	11	Pass
NVNT	ANT2	802.11n(HT20)	5300.00	-1.60	0.13	-1.47	11	Pass
NVNT	ANT1	802.11n(HT20)	5320.00	-3.21	0.20	-3.01	11	Pass
NVNT	ANT2	802.11n(HT20)	5320.00	0.27	0.20	0.47	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5260.00	-2.66	0.20	-2.46	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5260.00	-0.93	0.20	-0.73	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5300.00	-3.04	0.20	-2.84	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5300.00	-0.30	0.20	-0.10	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5320.00	-3.14	0.20	-2.94	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5320.00	-1.28	0.20	-1.08	11	Pass
NVNT	ANT1	802.11n(HT40)	5270.00	-6.02	0.39	-5.63	11	Pass
NVNT	ANT2	802.11n(HT40)	5270.00	-4.48	0.39	-4.09	11	Pass
NVNT	ANT1	802.11n(HT40)	5310.00	-6.41	0.39	-6.02	11	Pass
NVNT	ANT2	802.11n(HT40)	5310.00	-5.49	0.26	-5.23	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5270.00	-6.51	0.26	-6.25	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5270.00	-4.29	0.26	-4.04	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5310.00	-7.04	0.26	-6.78	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5310.00	-4.82	0.26	-4.56	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5290.00	-29.01	3.01	-26.00	11	Pass
NVNT	ANT2	802.11ac(VHT80)	5290.00	-28.83	3.01	-25.82	11	Pass

