

Appendix

Test Data

for BTEK241111036A02E18

Start date	2024/12/9	Finish date	2024/12/9
Temperature	22.0℃	Humidity	42%
RF specifications	5.2G_WIFI- Module 1 7663	Test Engineer	Zora



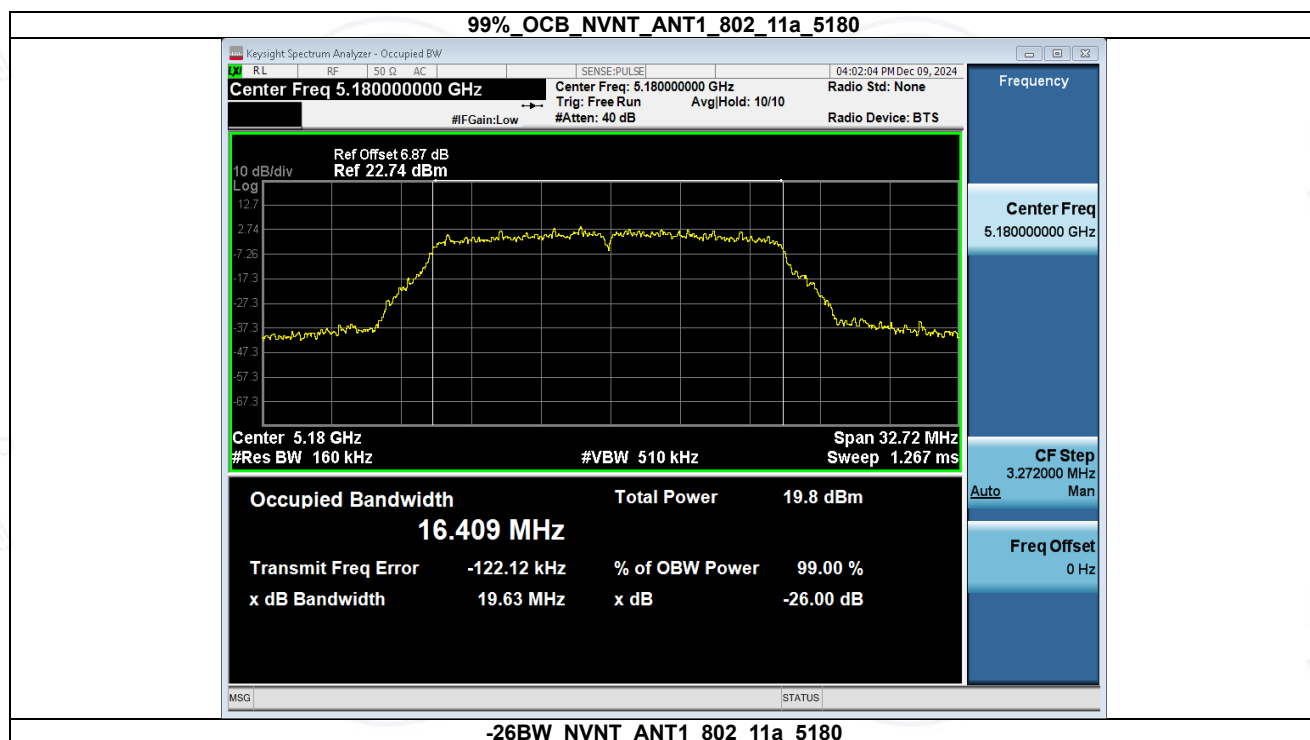
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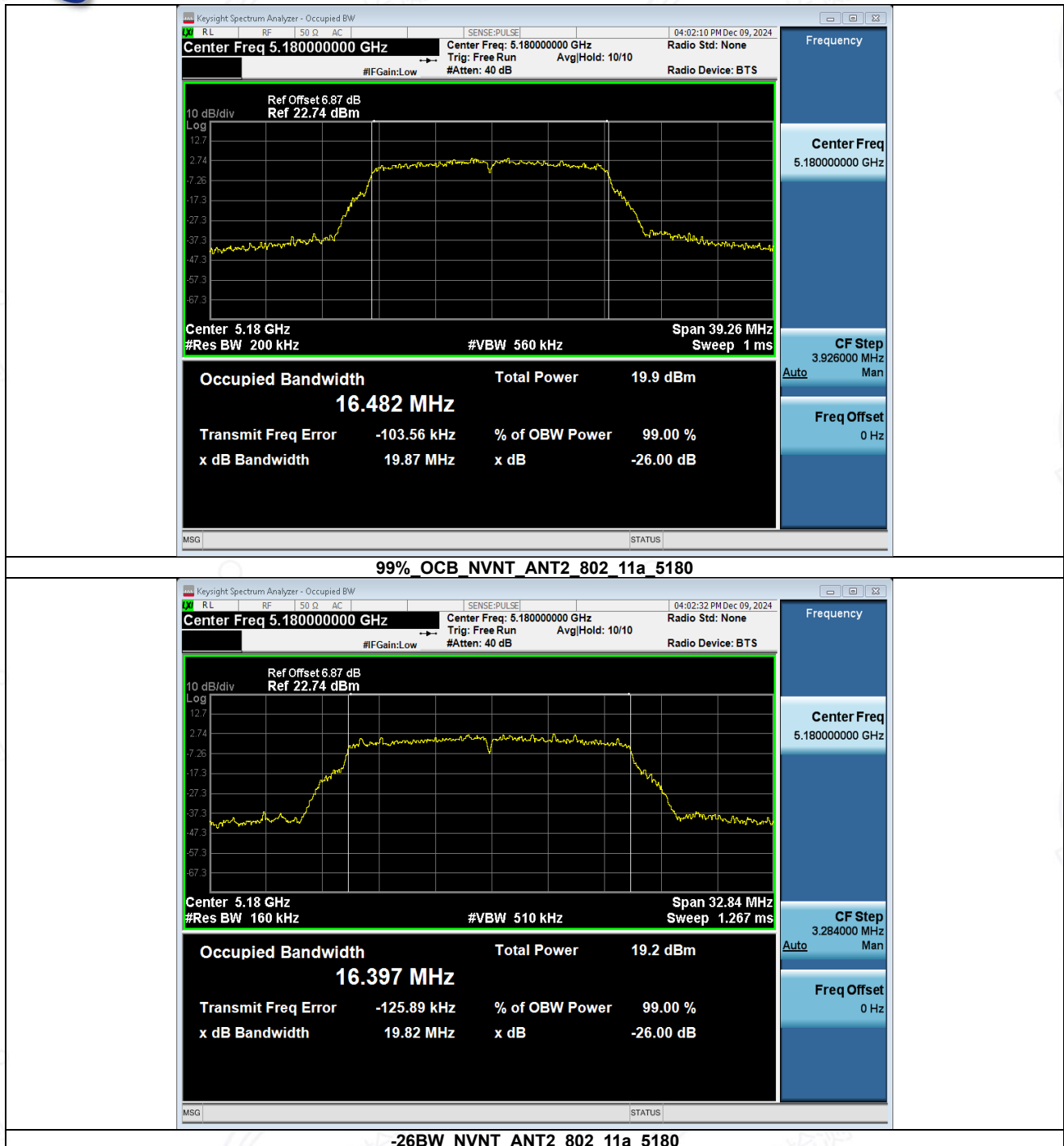
1. -26dB and 99% Emission Bandwidth

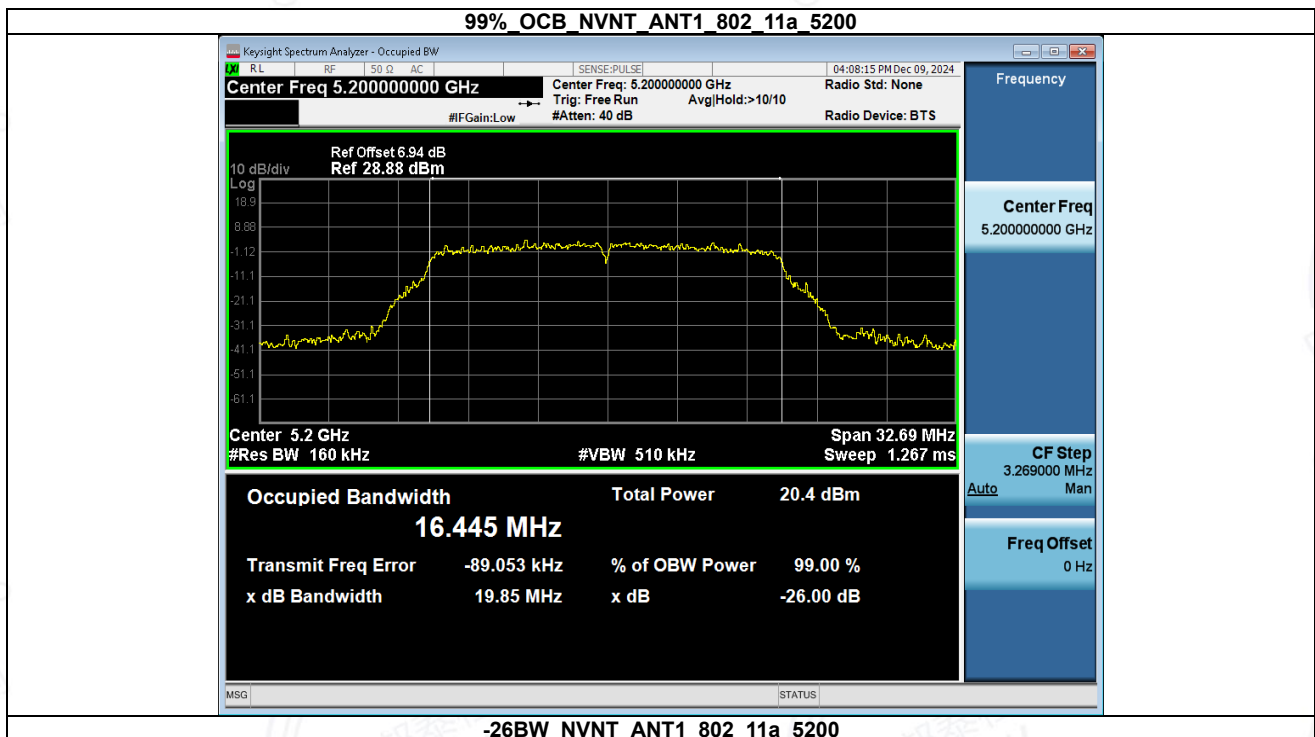
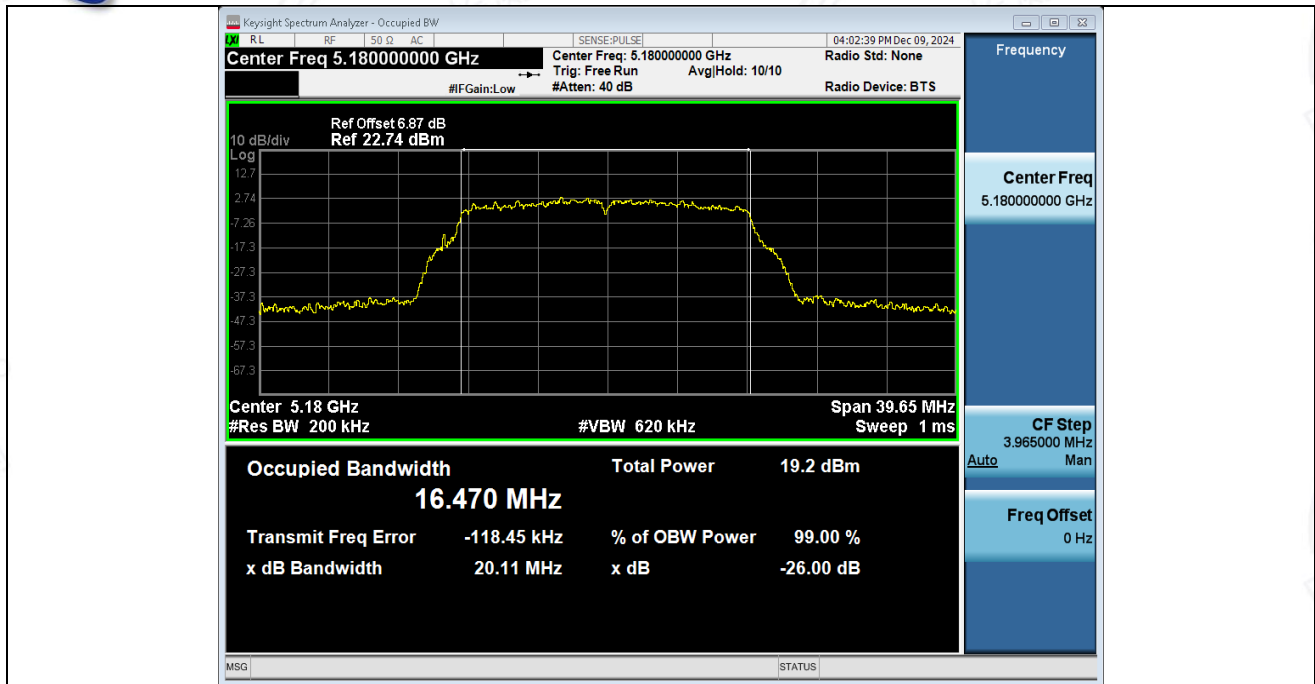
Condition	Antenna	Modulation	Frequency(MHz)	26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	19.87	16.41
NVNT	ANT2	802.11a	5180.00	20.11	16.40
NVNT	ANT1	802.11a	5200.00	19.82	16.45
NVNT	ANT2	802.11a	5200.00	20.20	16.42
NVNT	ANT1	802.11a	5240.00	19.89	16.44
NVNT	ANT2	802.11a	5240.00	19.92	16.41
NVNT	ANT1	802.11n(HT20)	5180.00	20.14	17.53
NVNT	ANT2	802.11n(HT20)	5180.00	20.21	17.57
NVNT	ANT1	802.11n(HT20)	5200.00	20.22	17.56
NVNT	ANT2	802.11n(HT20)	5200.00	20.11	17.59
NVNT	ANT1	802.11n(HT20)	5240.00	20.03	17.57
NVNT	ANT2	802.11n(HT20)	5240.00	20.22	17.58
NVNT	ANT1	802.11ac(VHT20)	5180.00	20.03	17.55
NVNT	ANT2	802.11ac(VHT20)	5180.00	20.01	17.58
NVNT	ANT1	802.11ac(VHT20)	5200.00	20.15	17.56
NVNT	ANT2	802.11ac(VHT20)	5200.00	20.02	17.58
NVNT	ANT1	802.11ac(VHT20)	5240.00	20.01	17.52
NVNT	ANT2	802.11ac(VHT20)	5240.00	19.78	17.57
NVNT	ANT1	802.11n(HT40)	5190.00	40.57	36.01
NVNT	ANT2	802.11n(HT40)	5190.00	39.99	36.00
NVNT	ANT1	802.11n(HT40)	5230.00	40.37	36.03
NVNT	ANT2	802.11n(HT40)	5230.00	39.96	35.99
NVNT	ANT1	802.11ac(VHT40)	5190.00	40.53	36.03
NVNT	ANT2	802.11ac(VHT40)	5190.00	39.76	35.94
NVNT	ANT1	802.11ac(VHT40)	5230.00	40.66	36.00
NVNT	ANT2	802.11ac(VHT40)	5230.00	40.00	35.98
NVNT	ANT1	802.11ac(VHT80)	5210.00	80.75	75.47
NVNT	ANT2	802.11ac(VHT80)	5210.00	79.92	75.33



-26BW_NVNT_ANT1_802_11a_5180







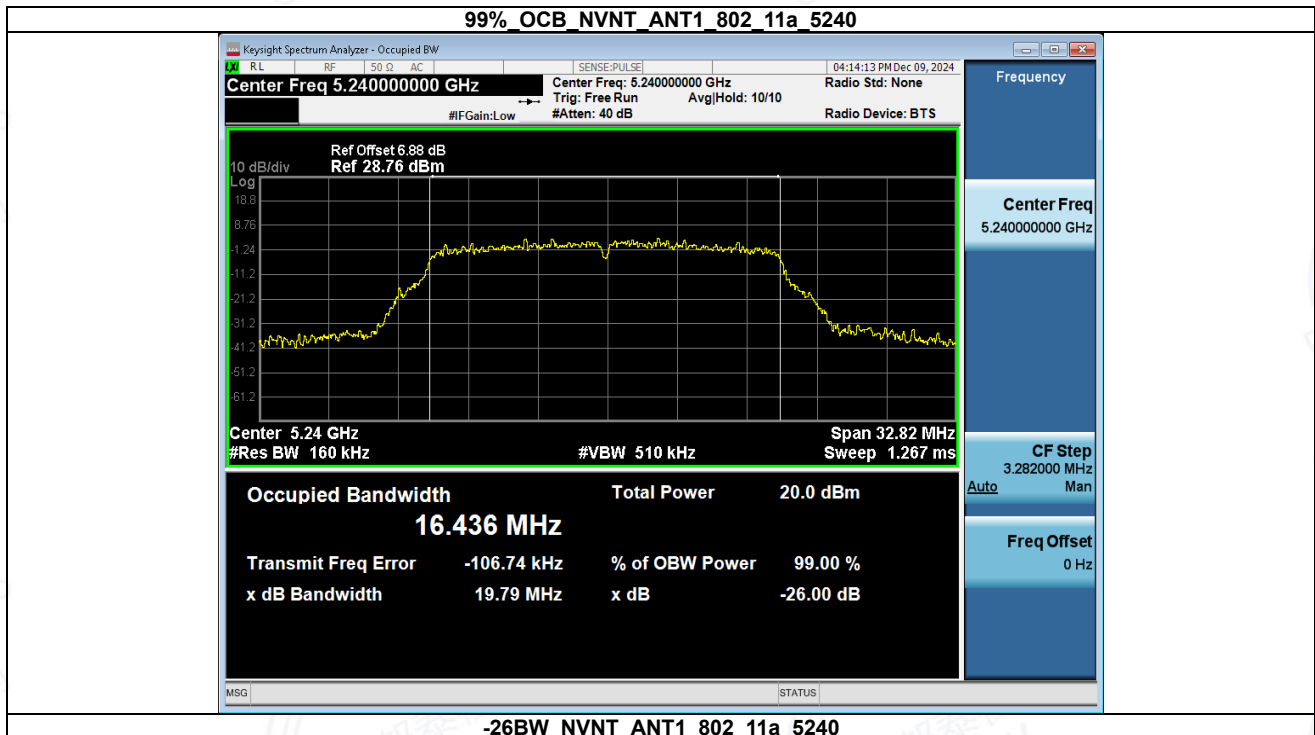
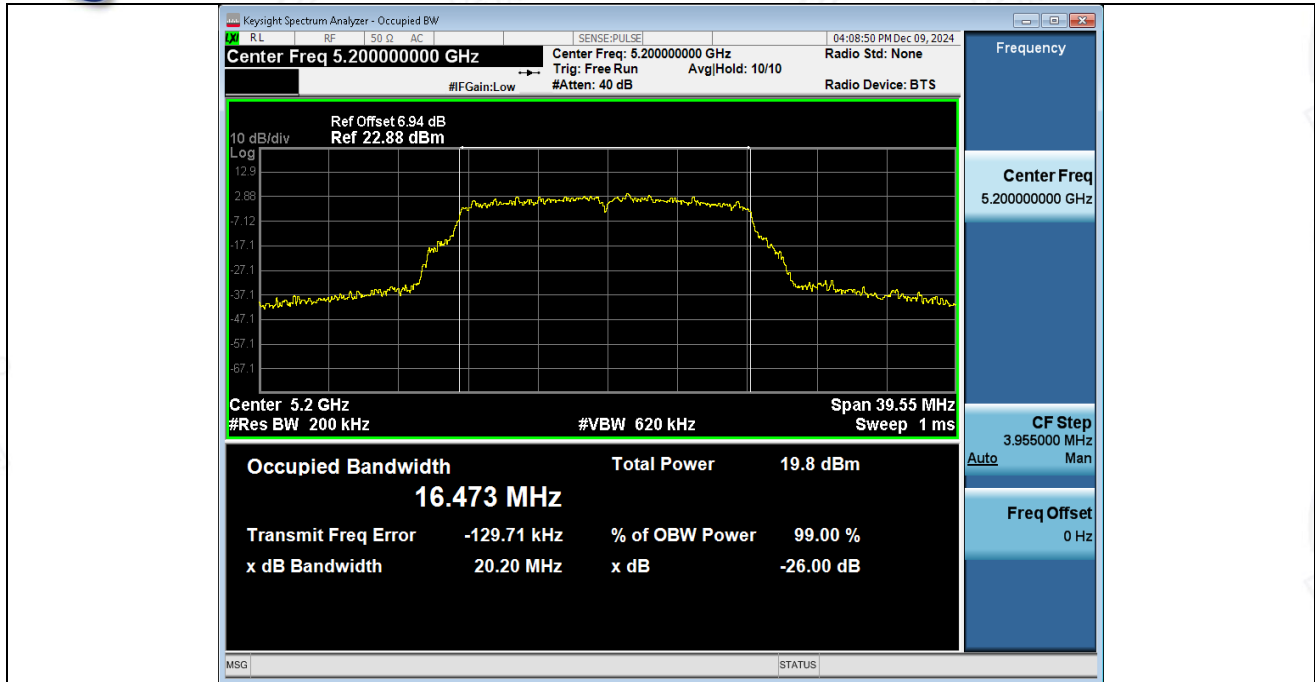


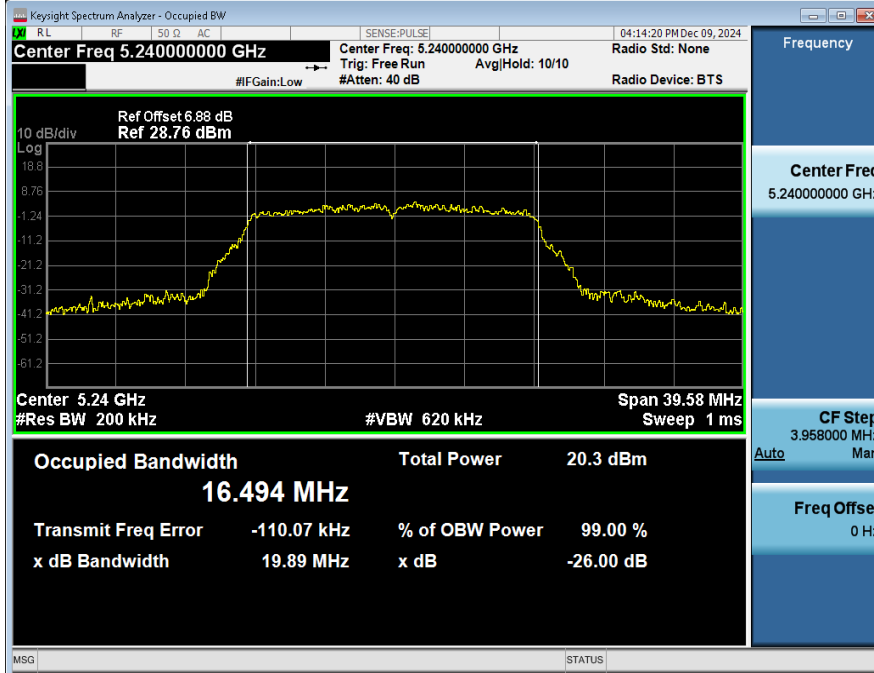
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-26BW_NVNT_ANT2_802_11a_5200





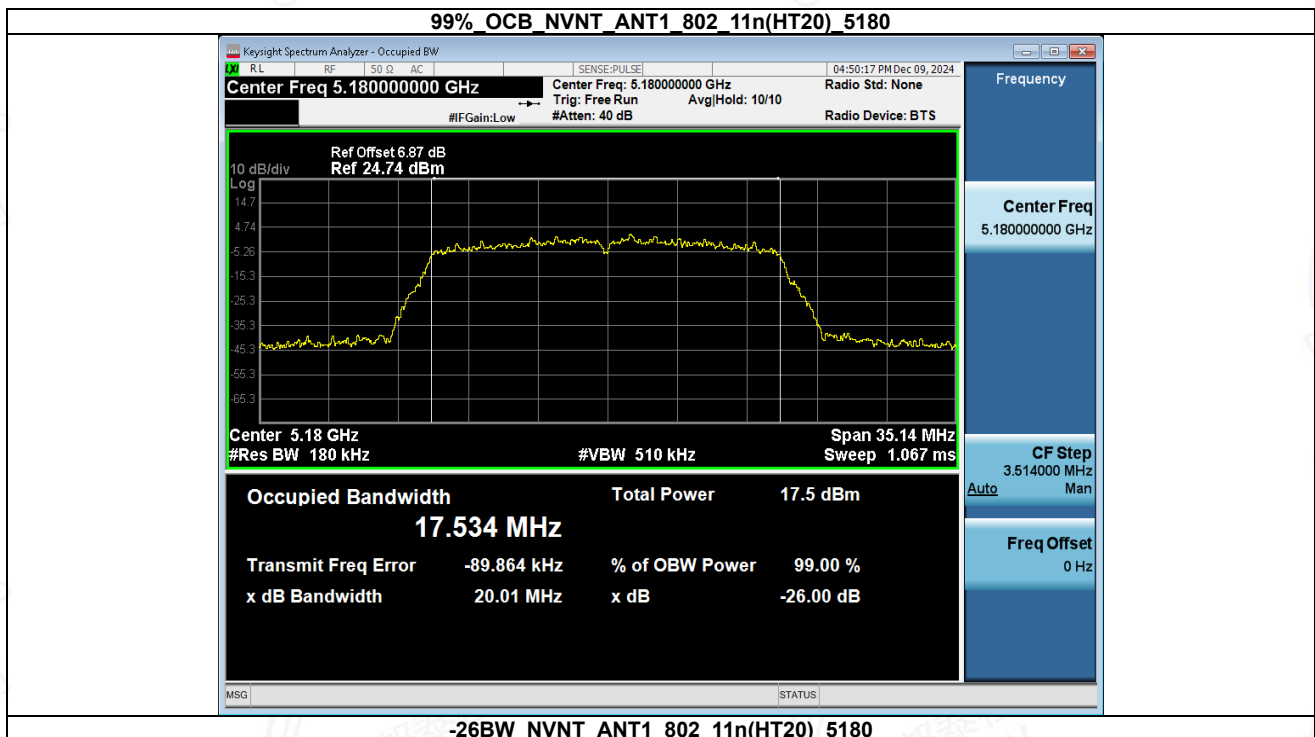
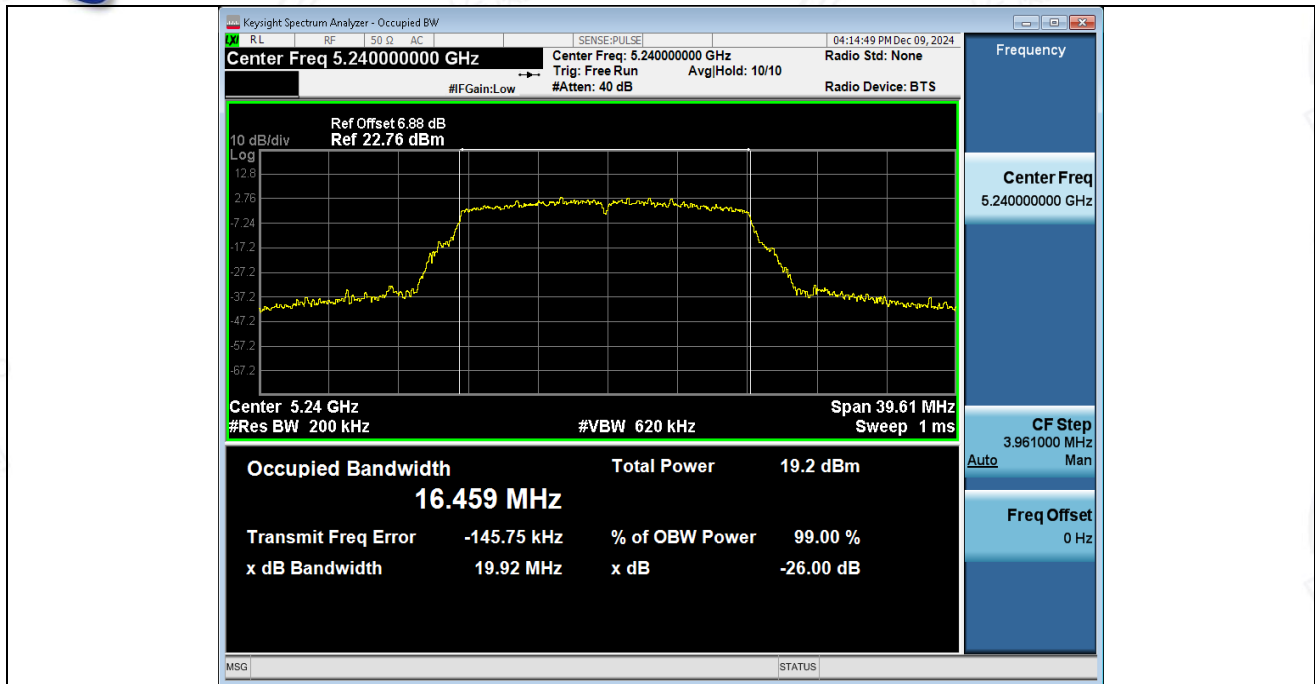


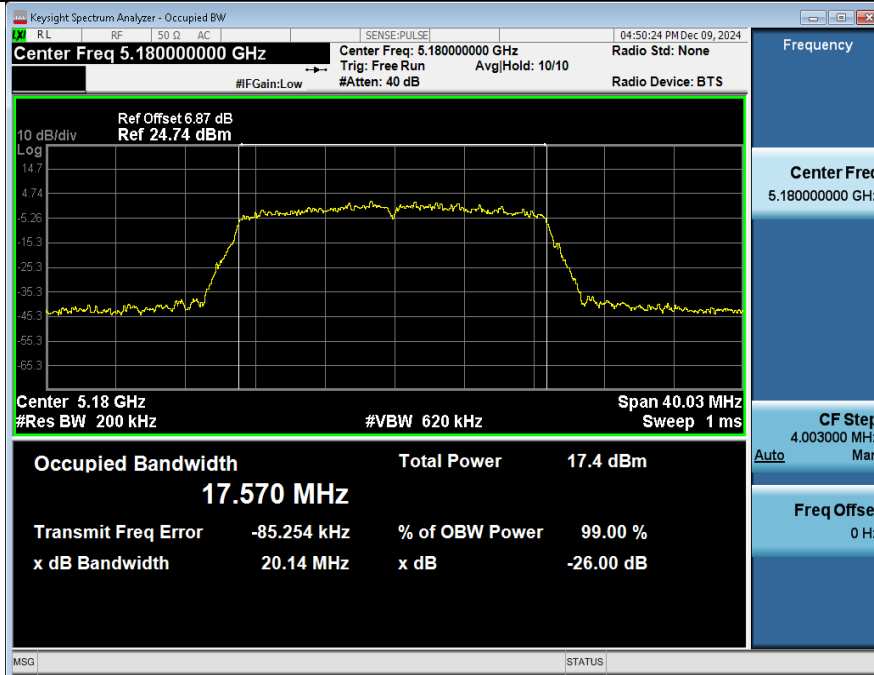
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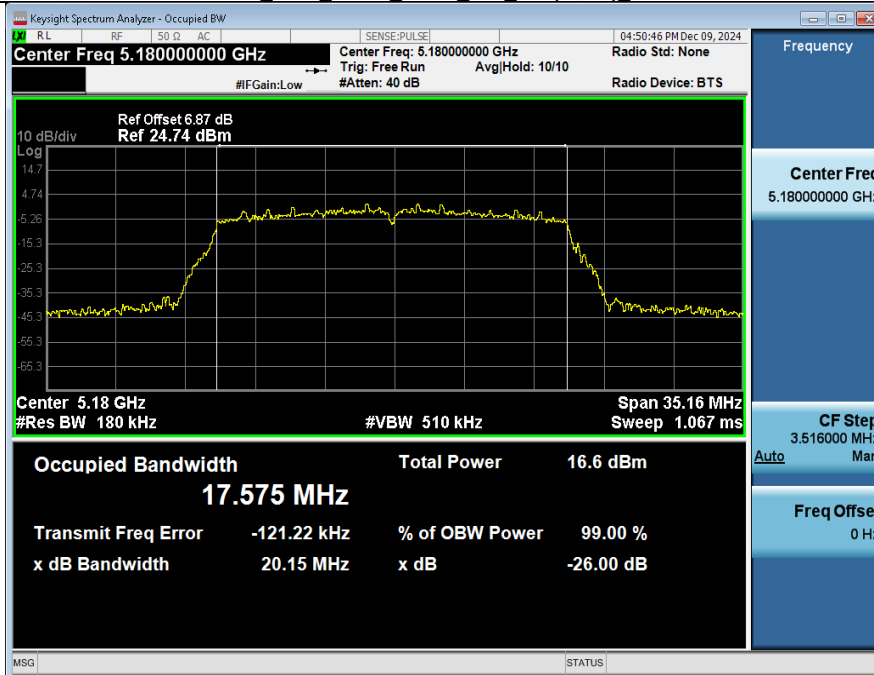
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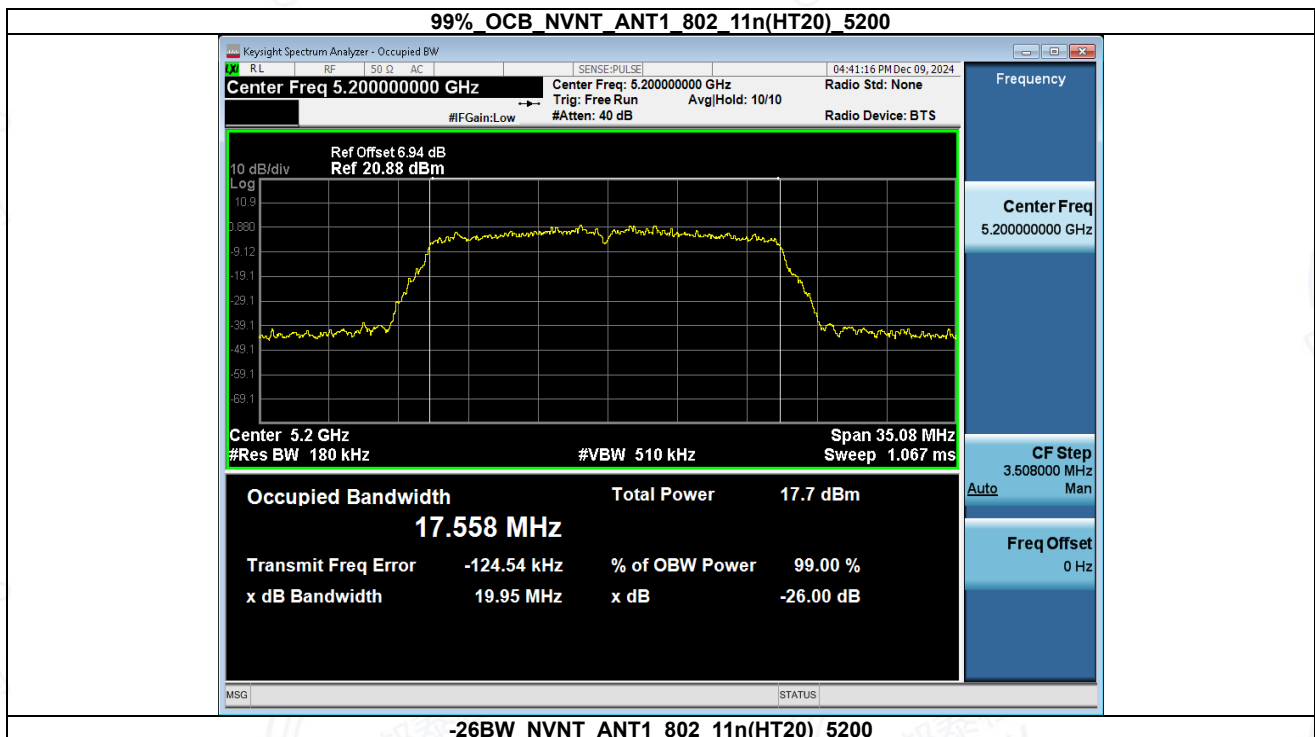
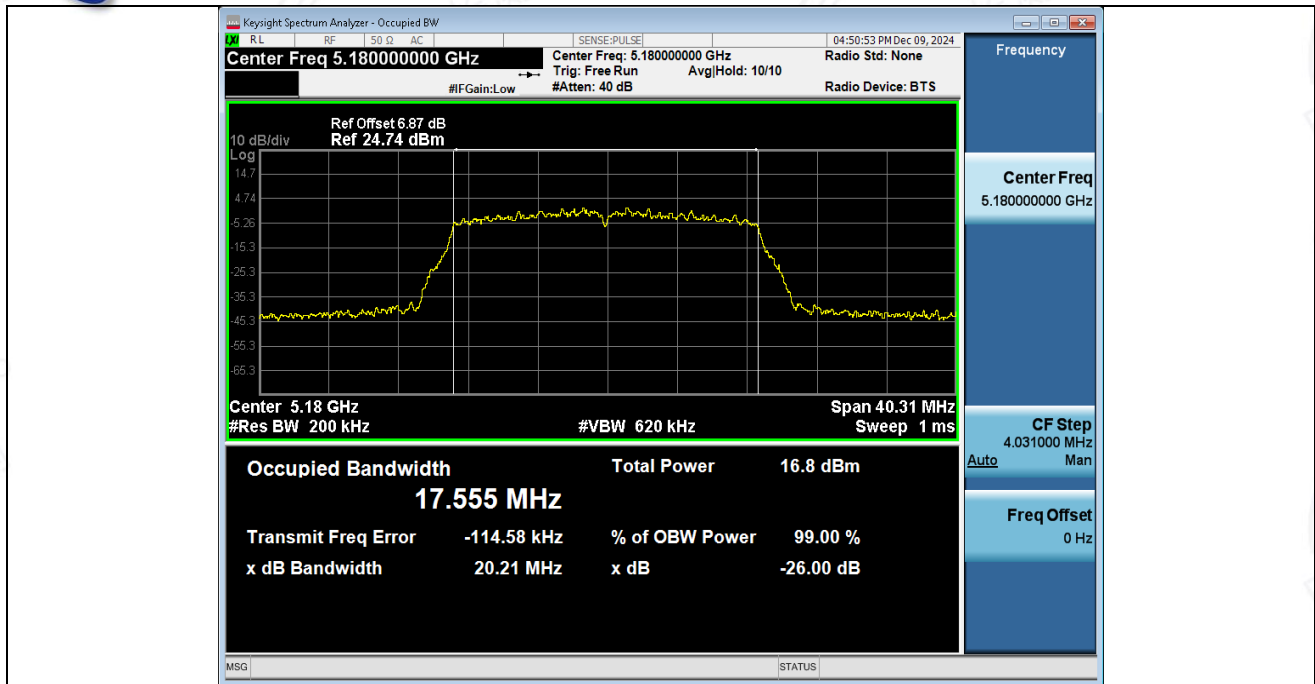


99%_OCB_NVNT_ANT2_802_11n(HT20)_5180



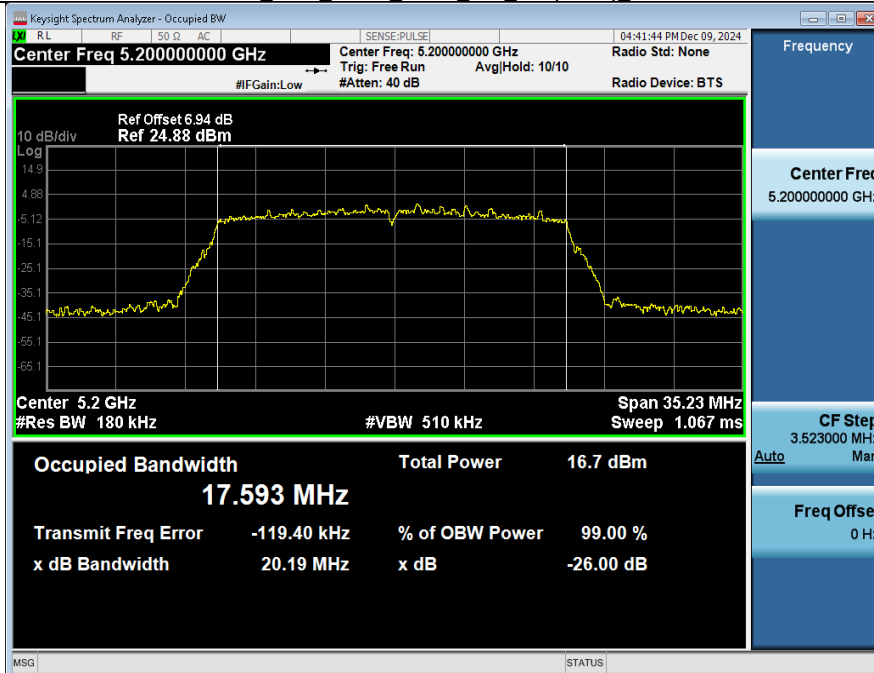
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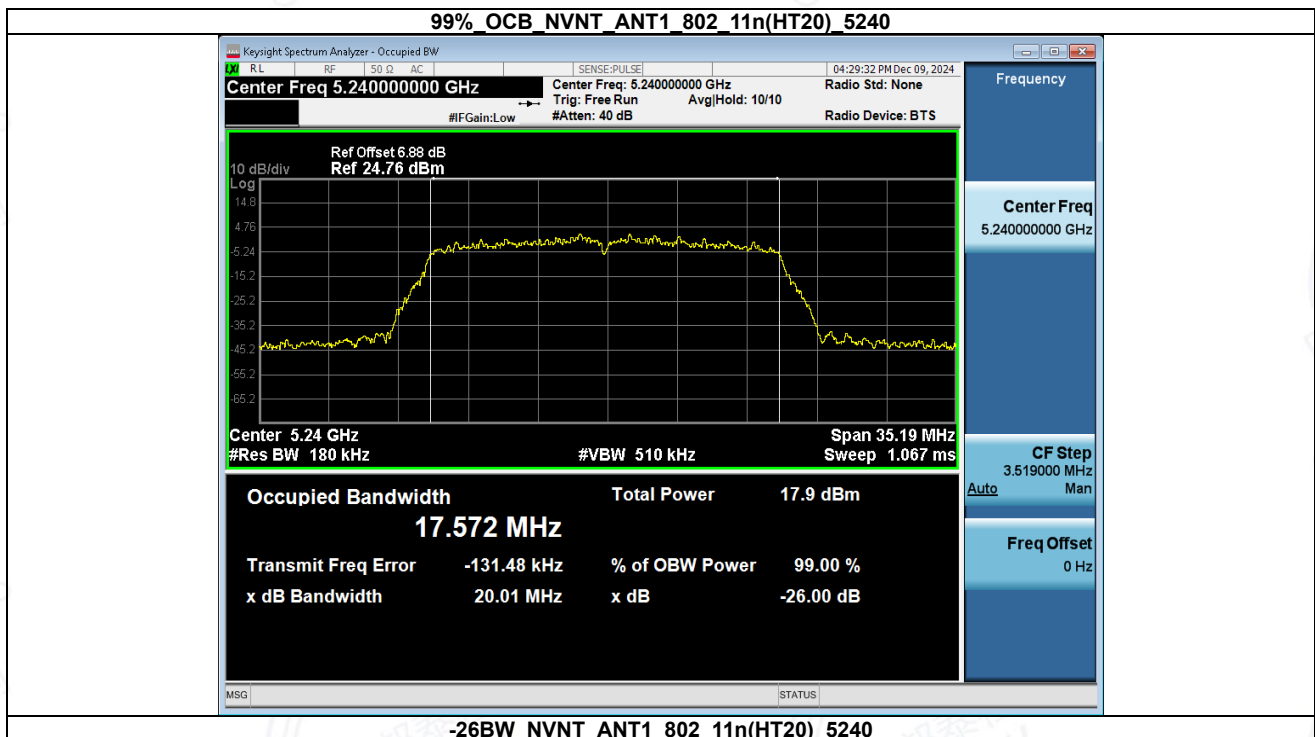
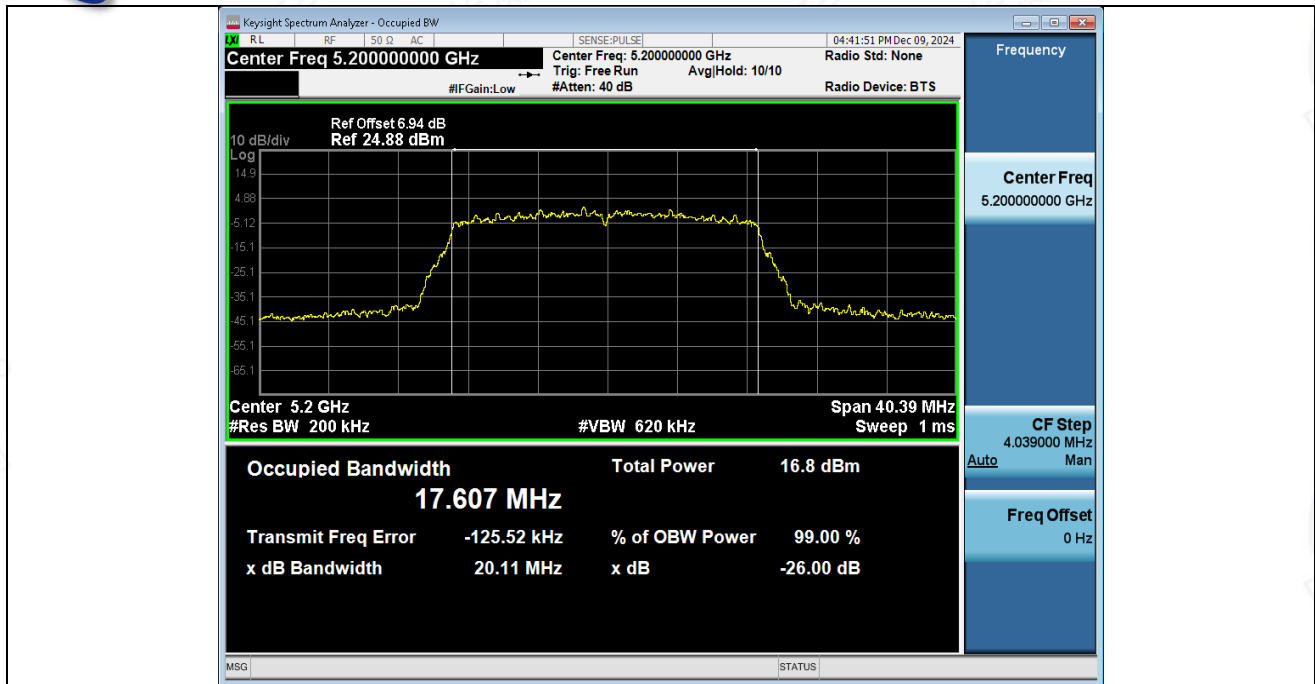


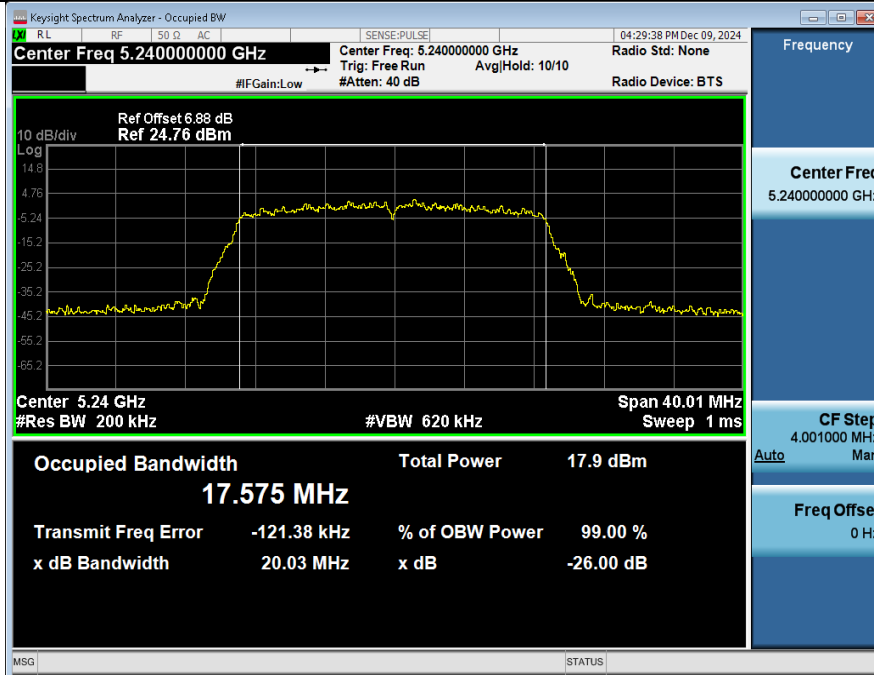
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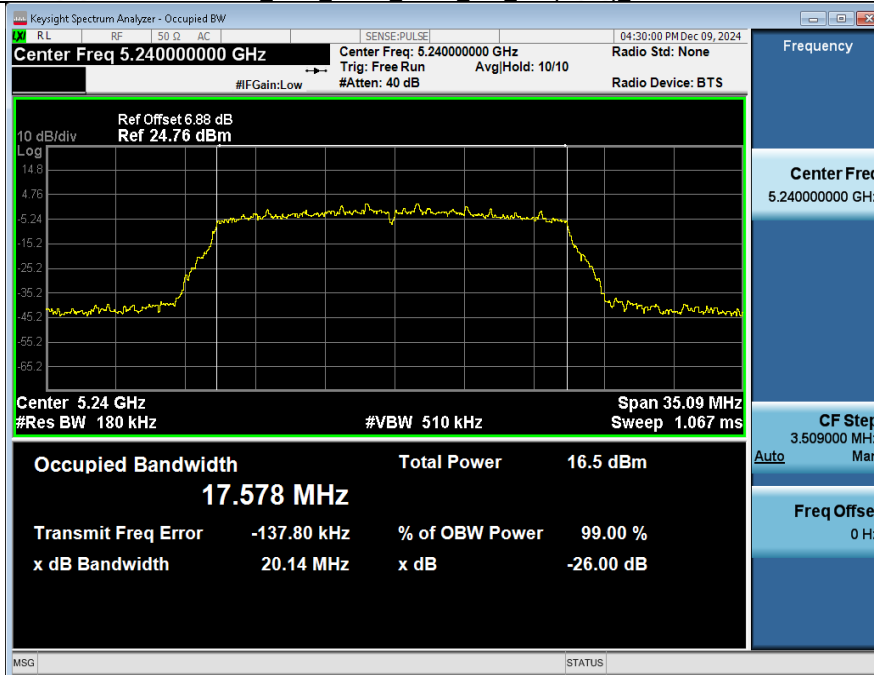
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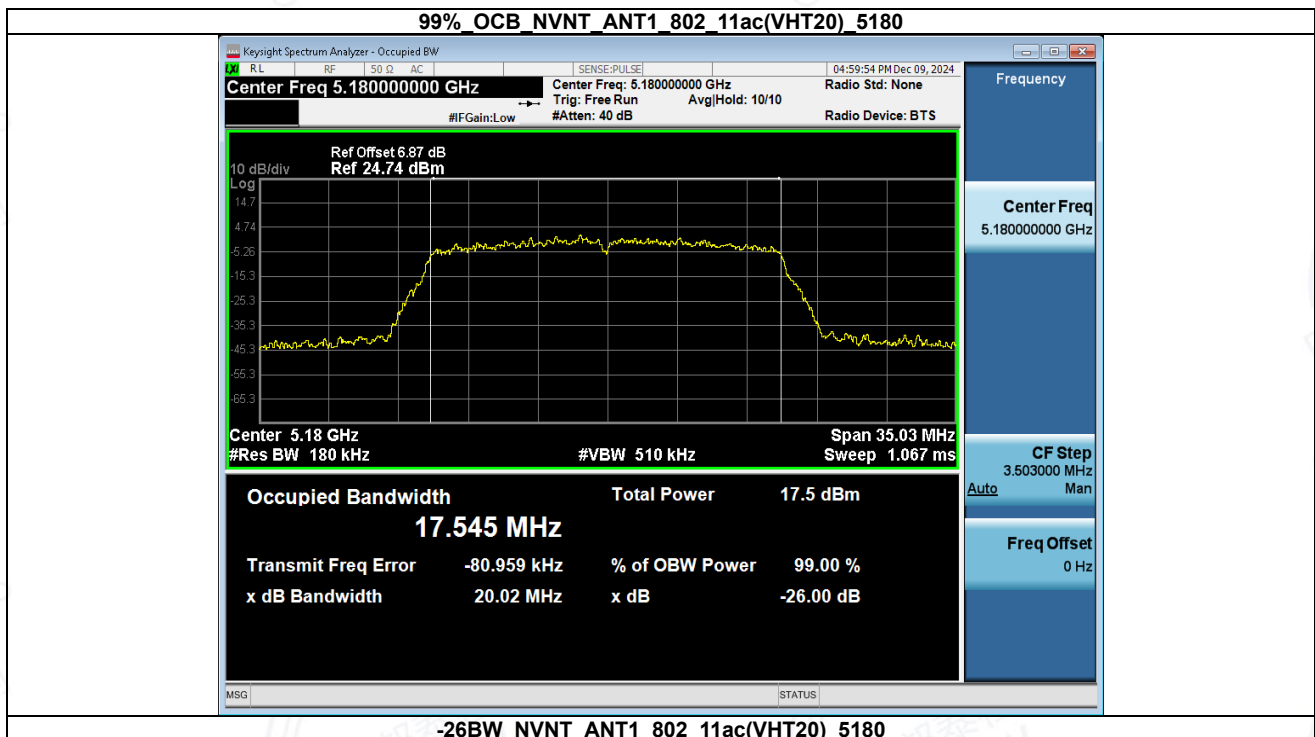
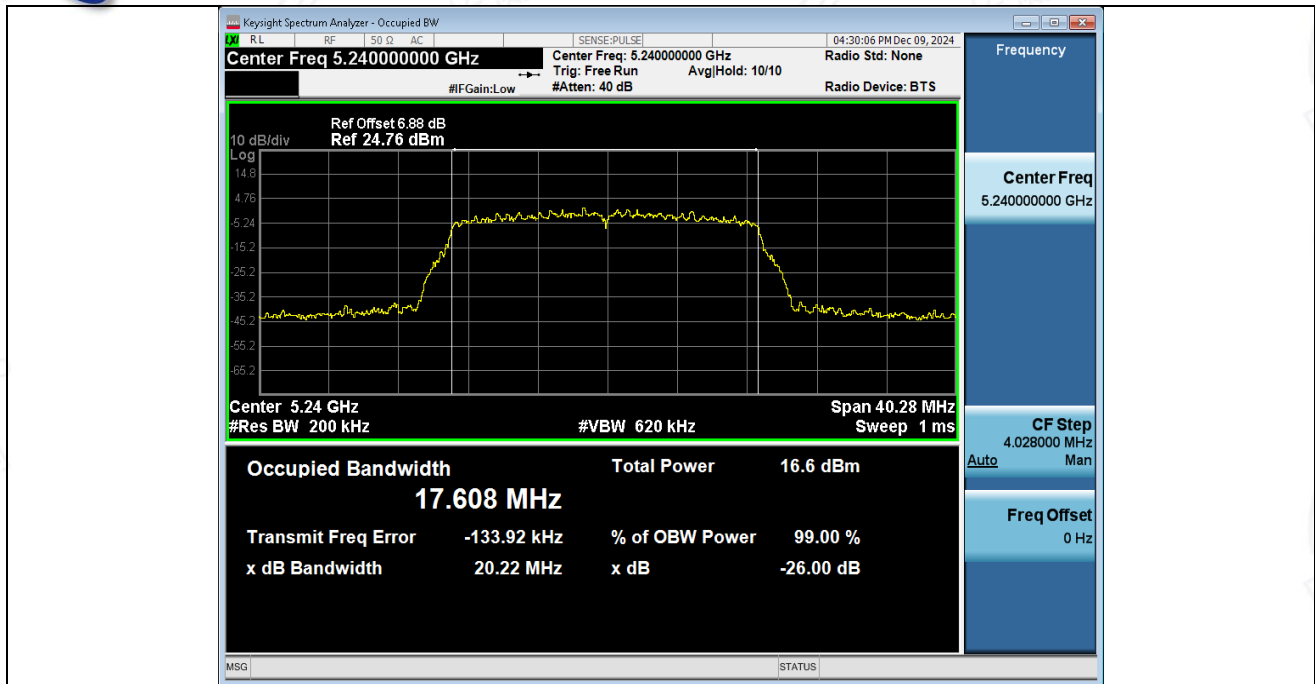


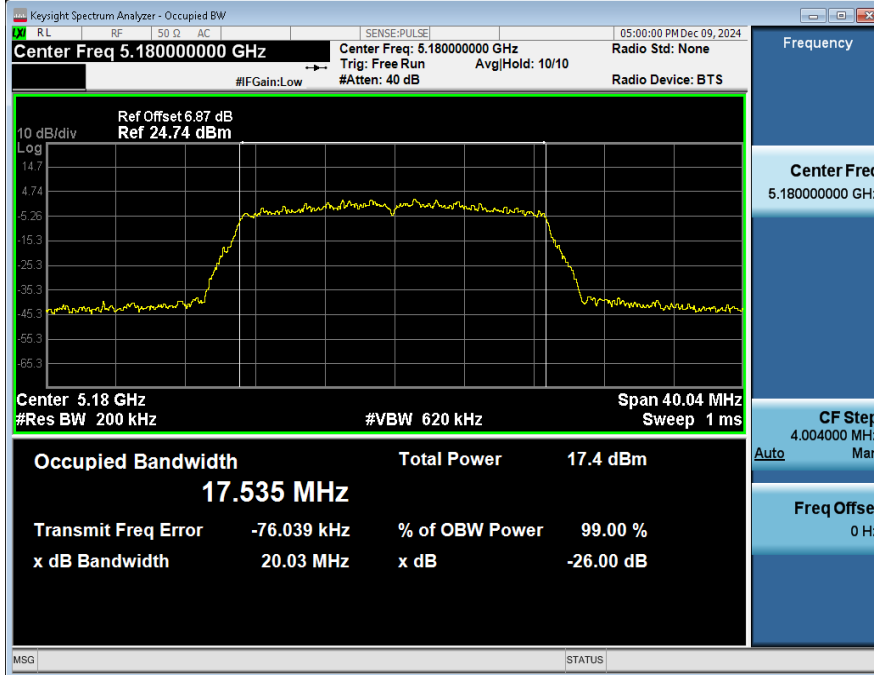
99%_OCB_NVNT_ANT2_802_11n(HT20)_5240



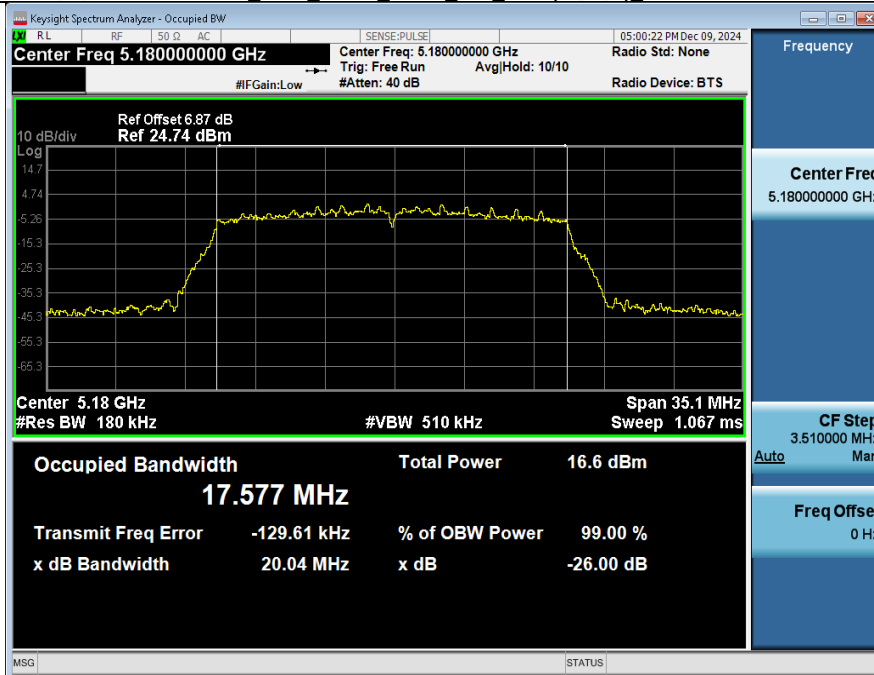
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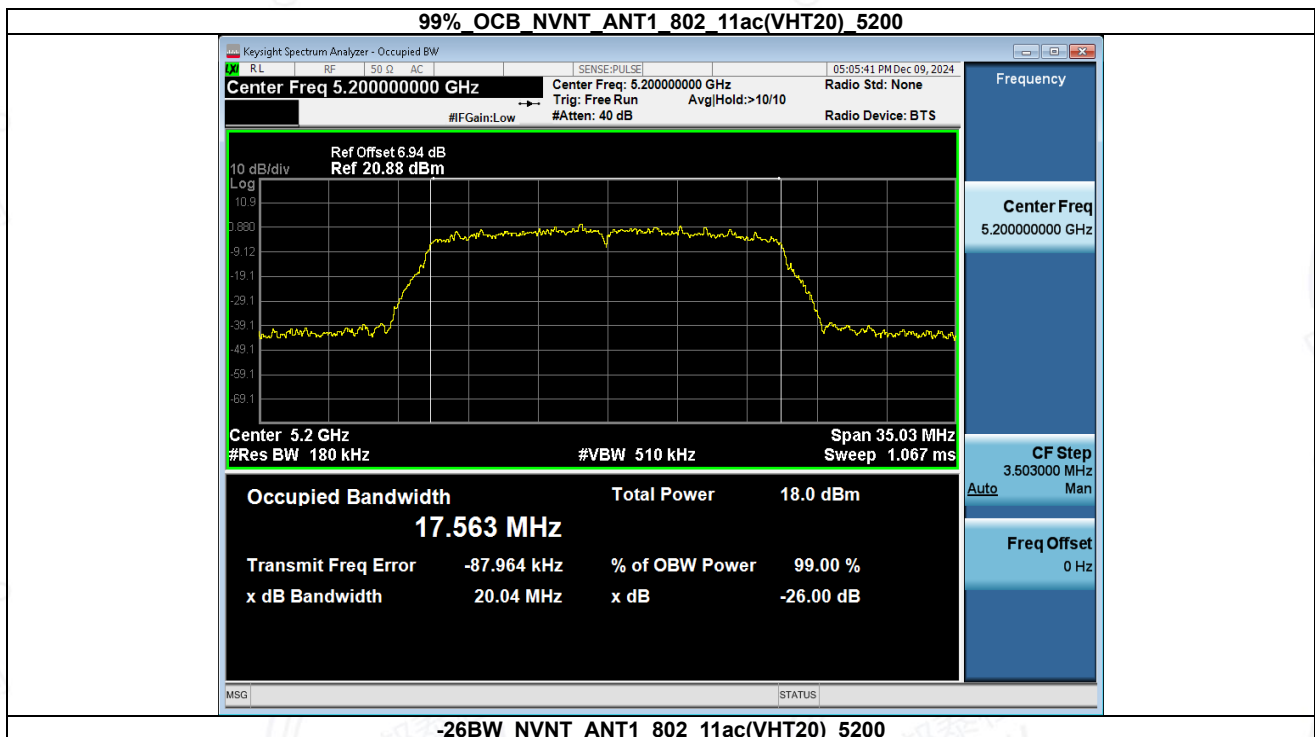
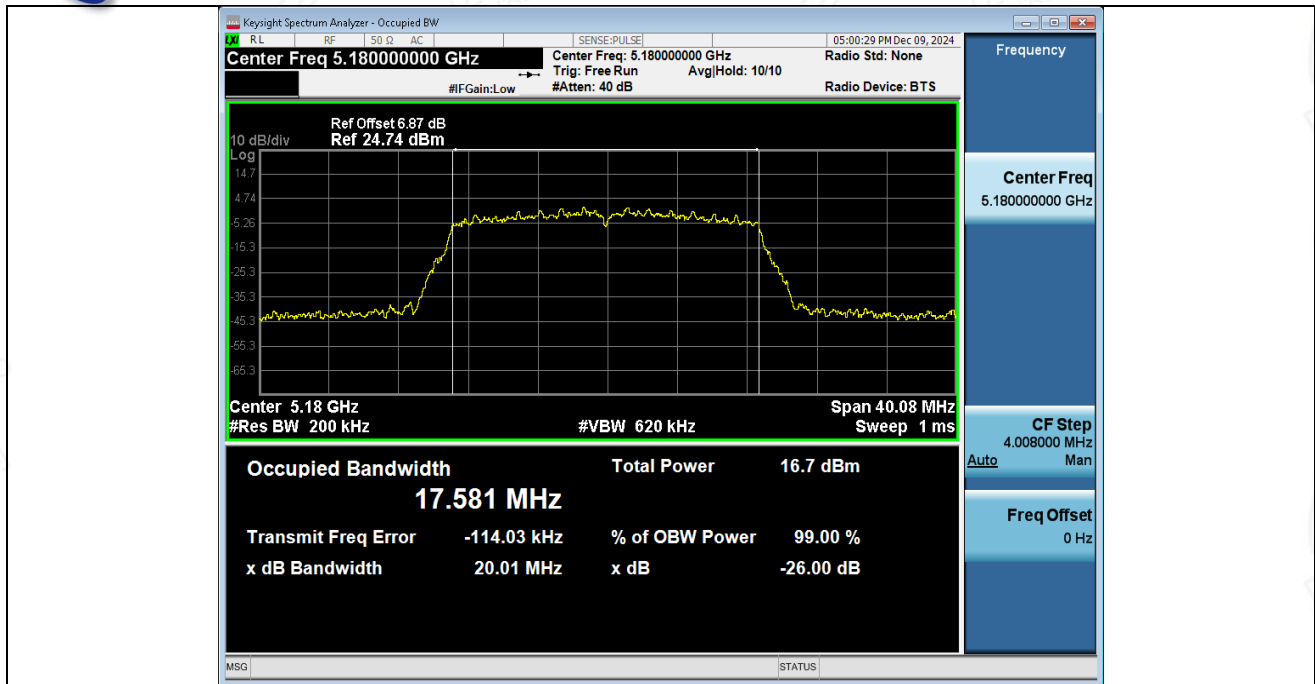


99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5180



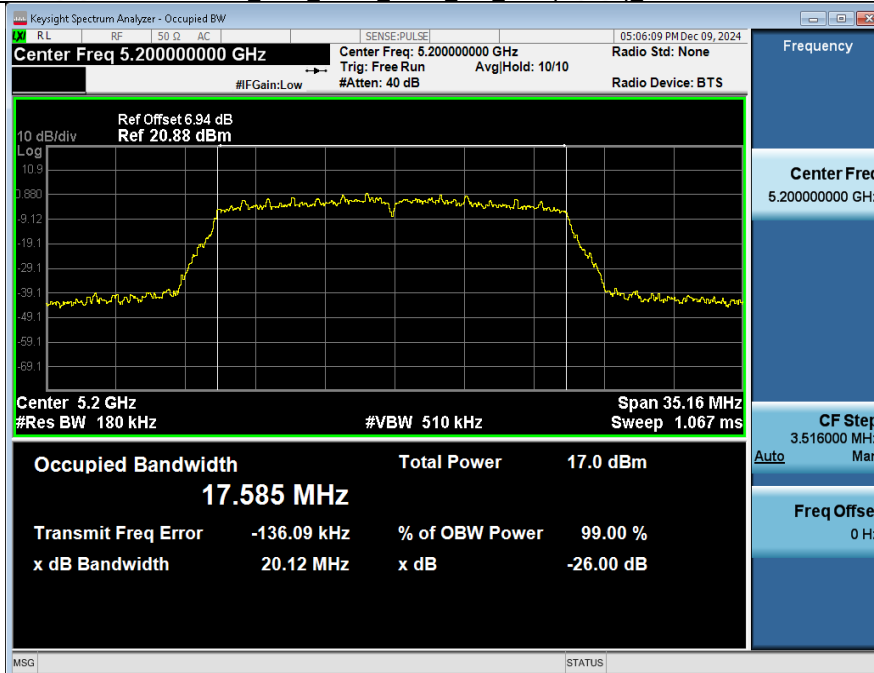
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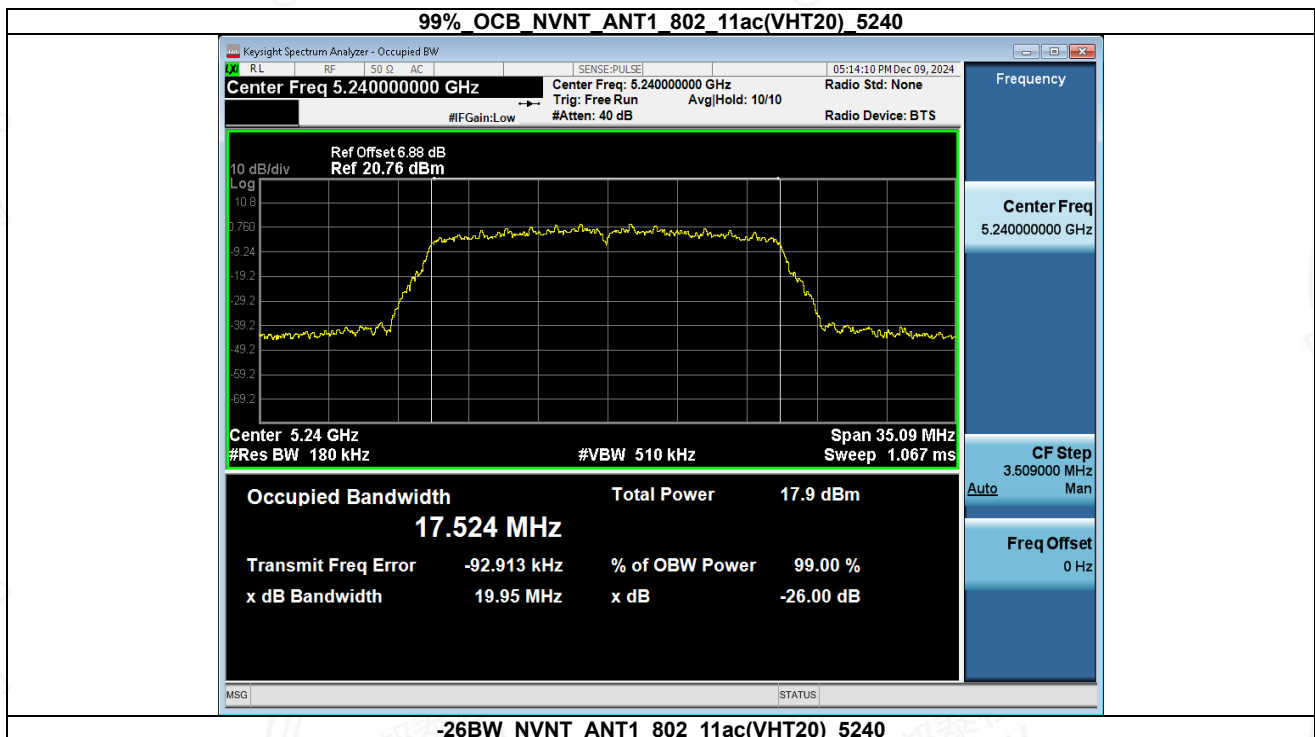
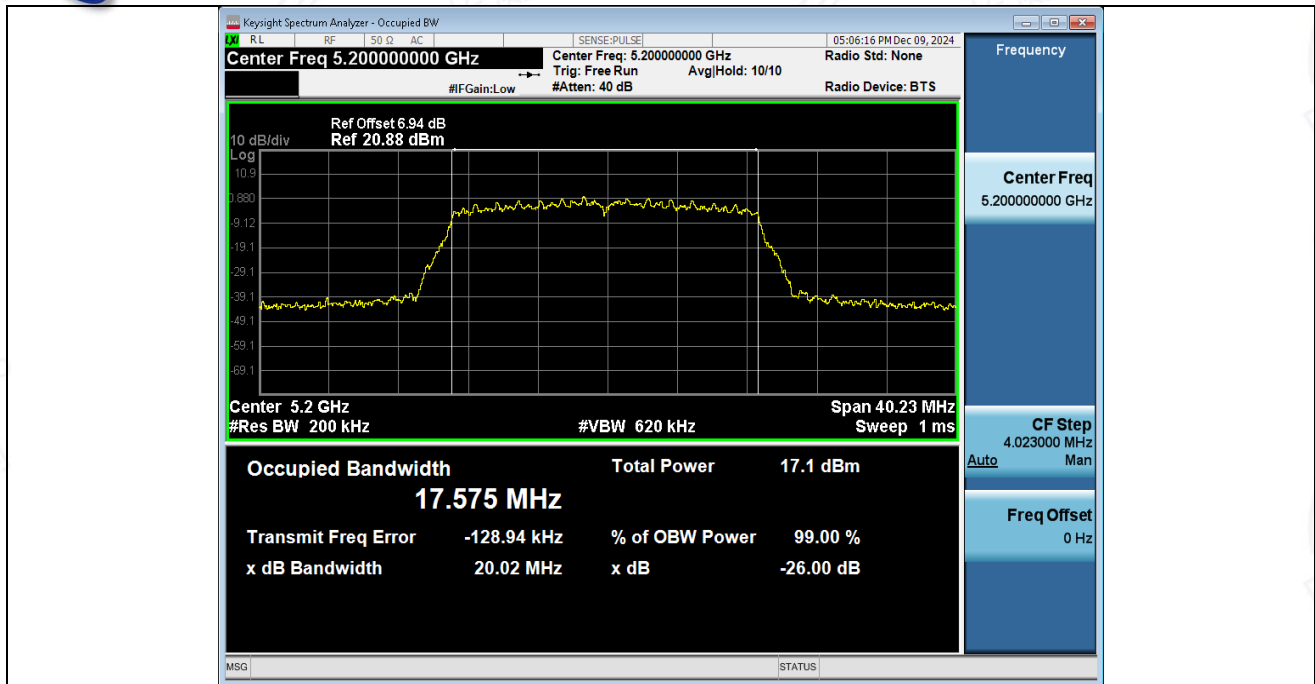


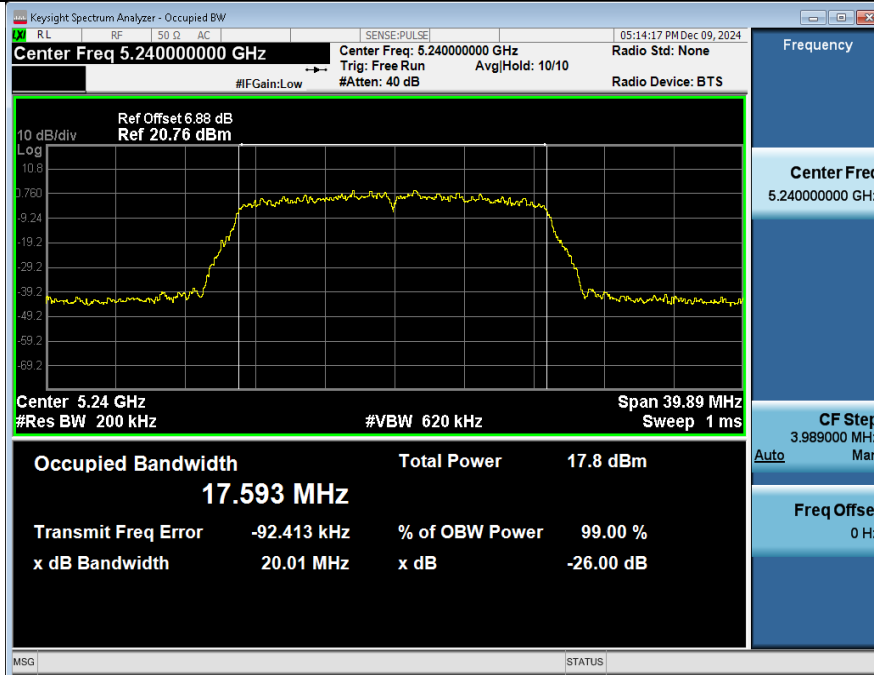
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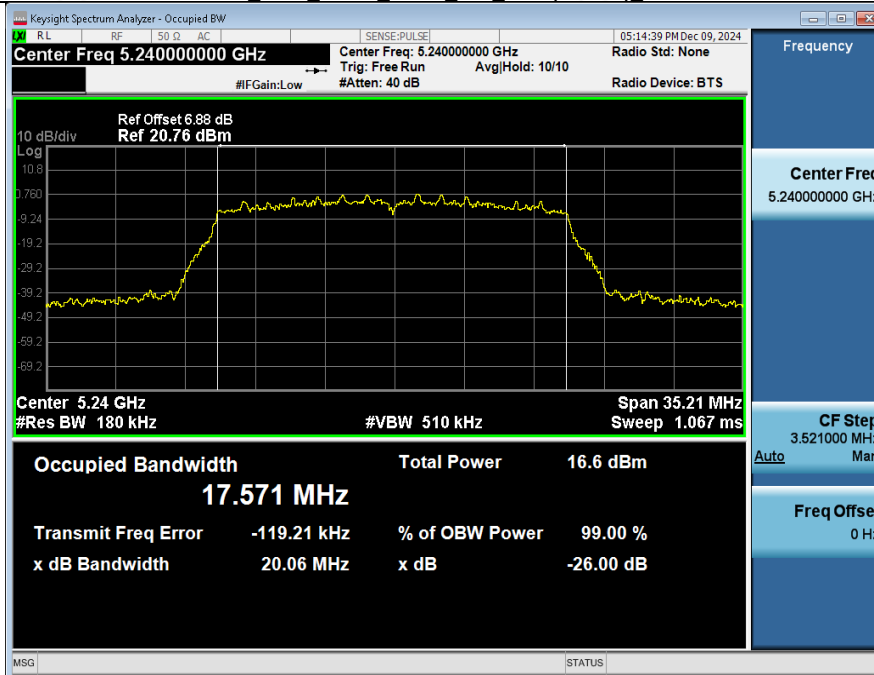
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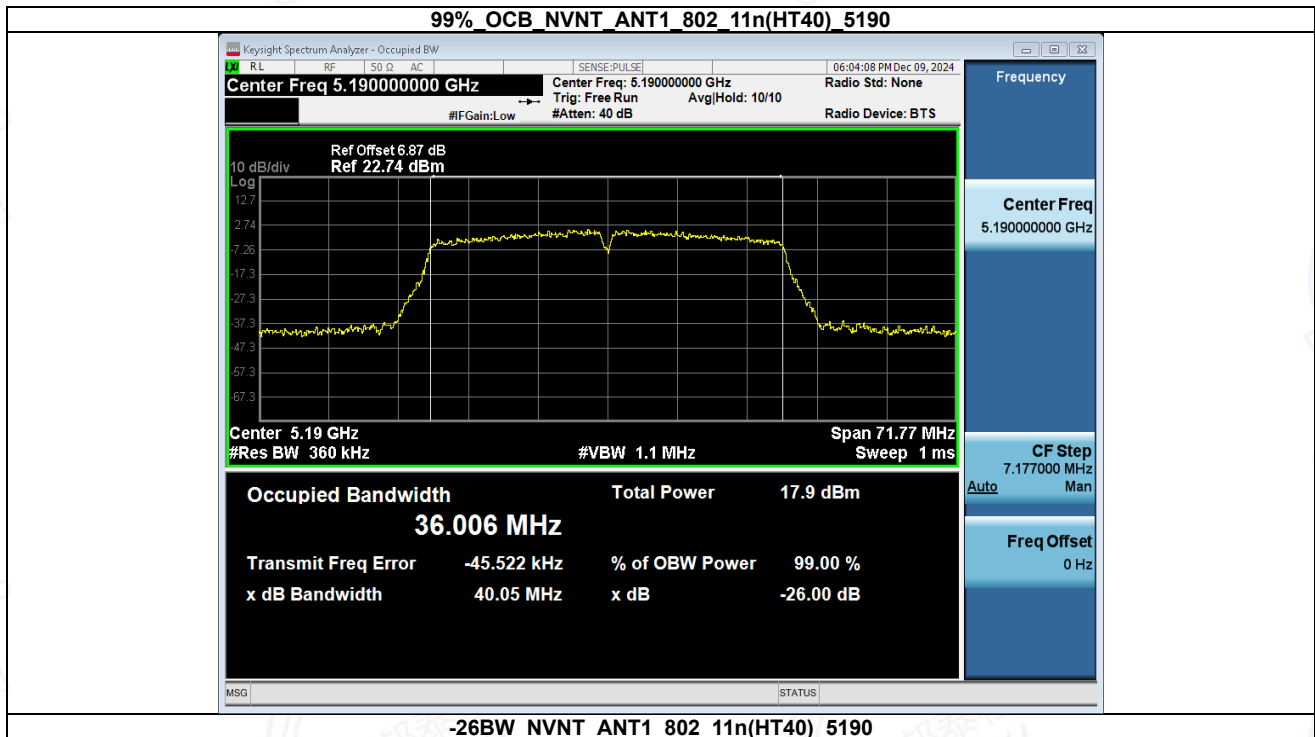
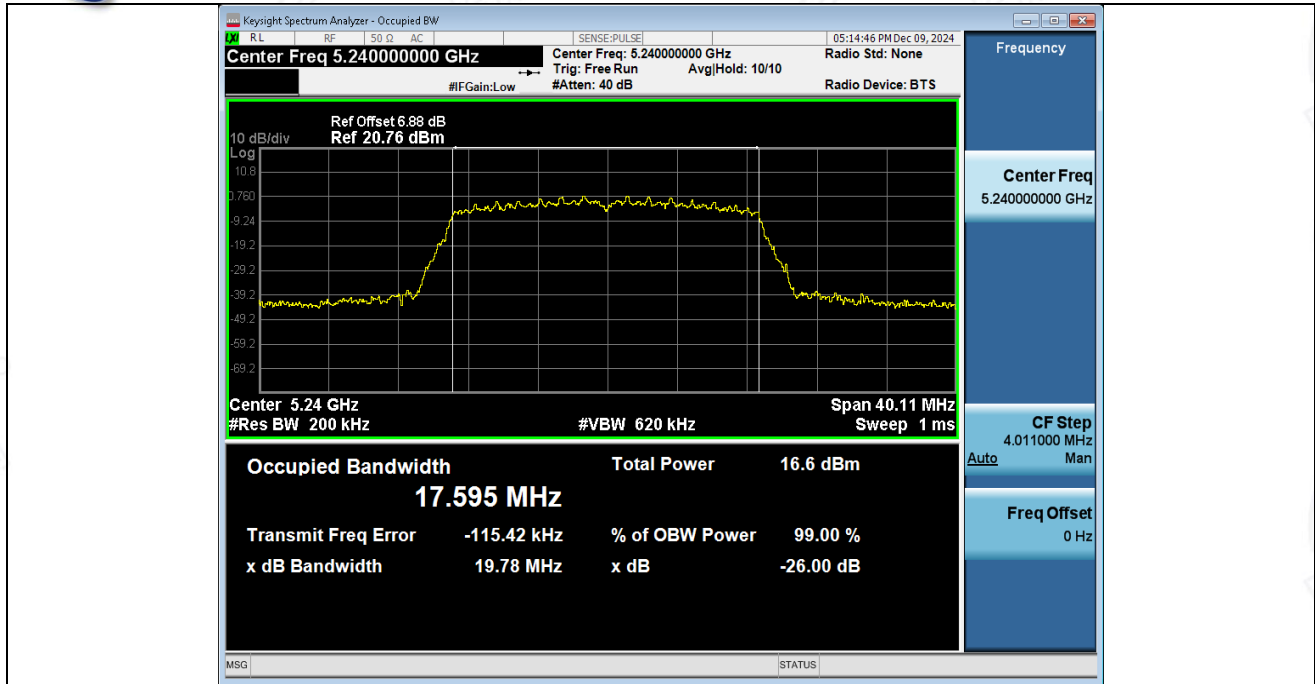


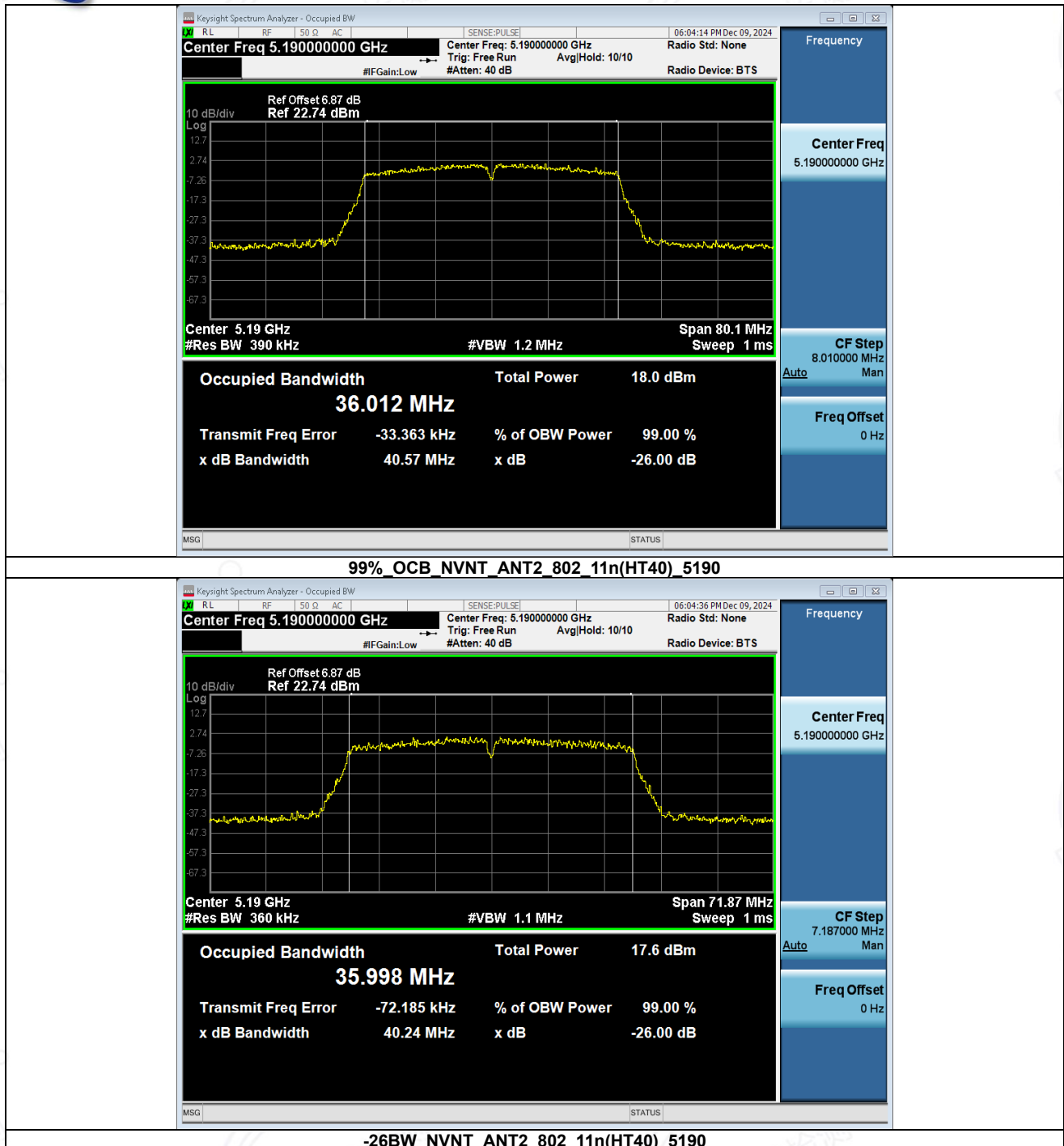
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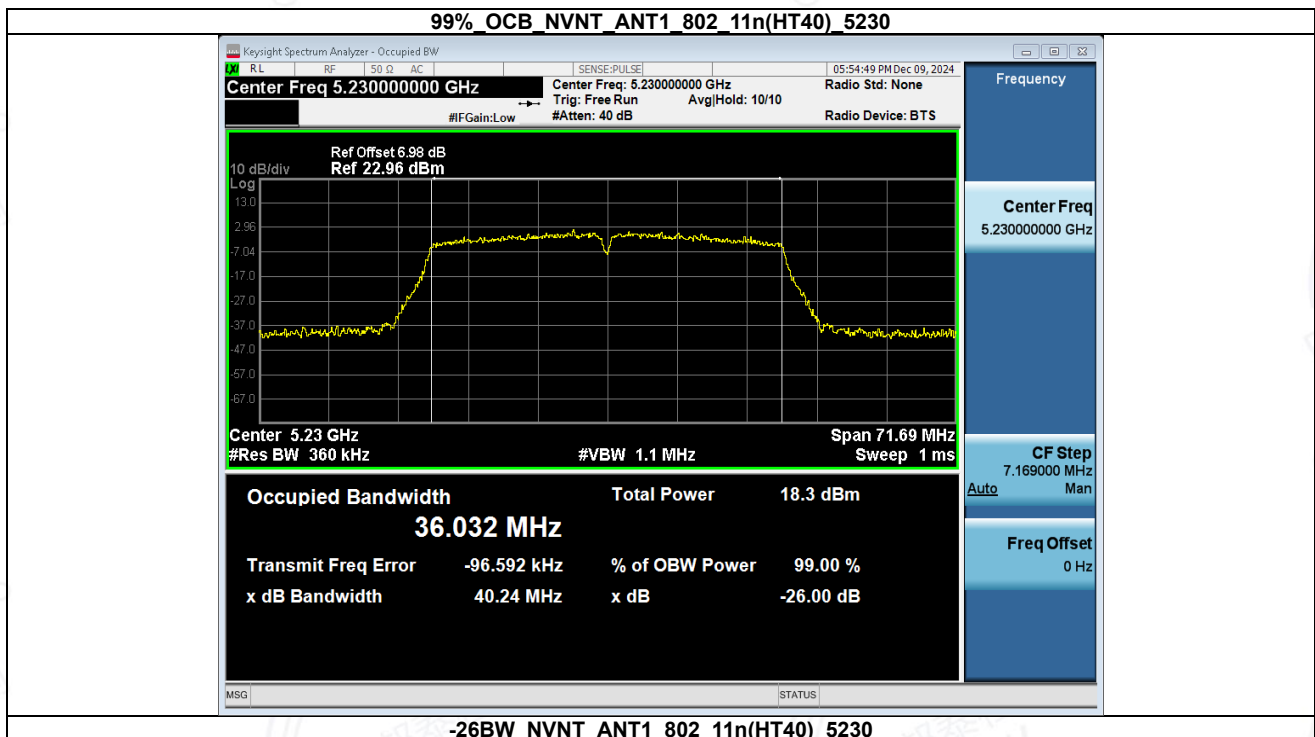
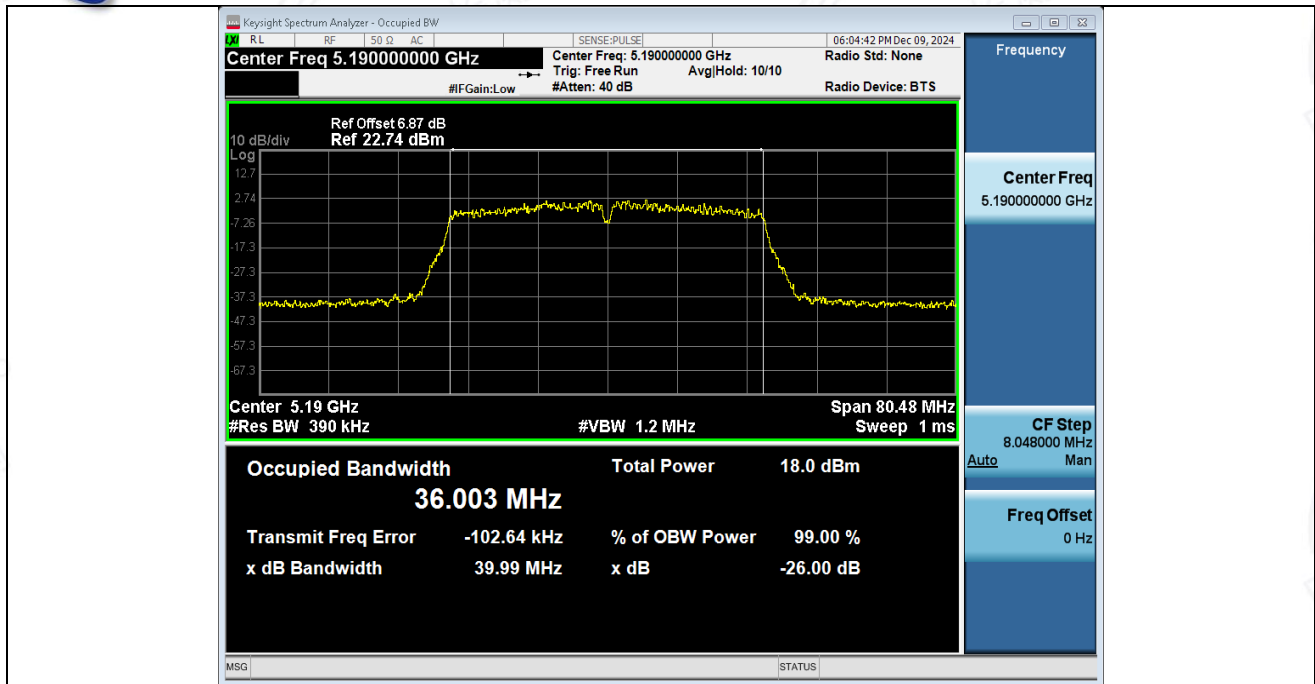


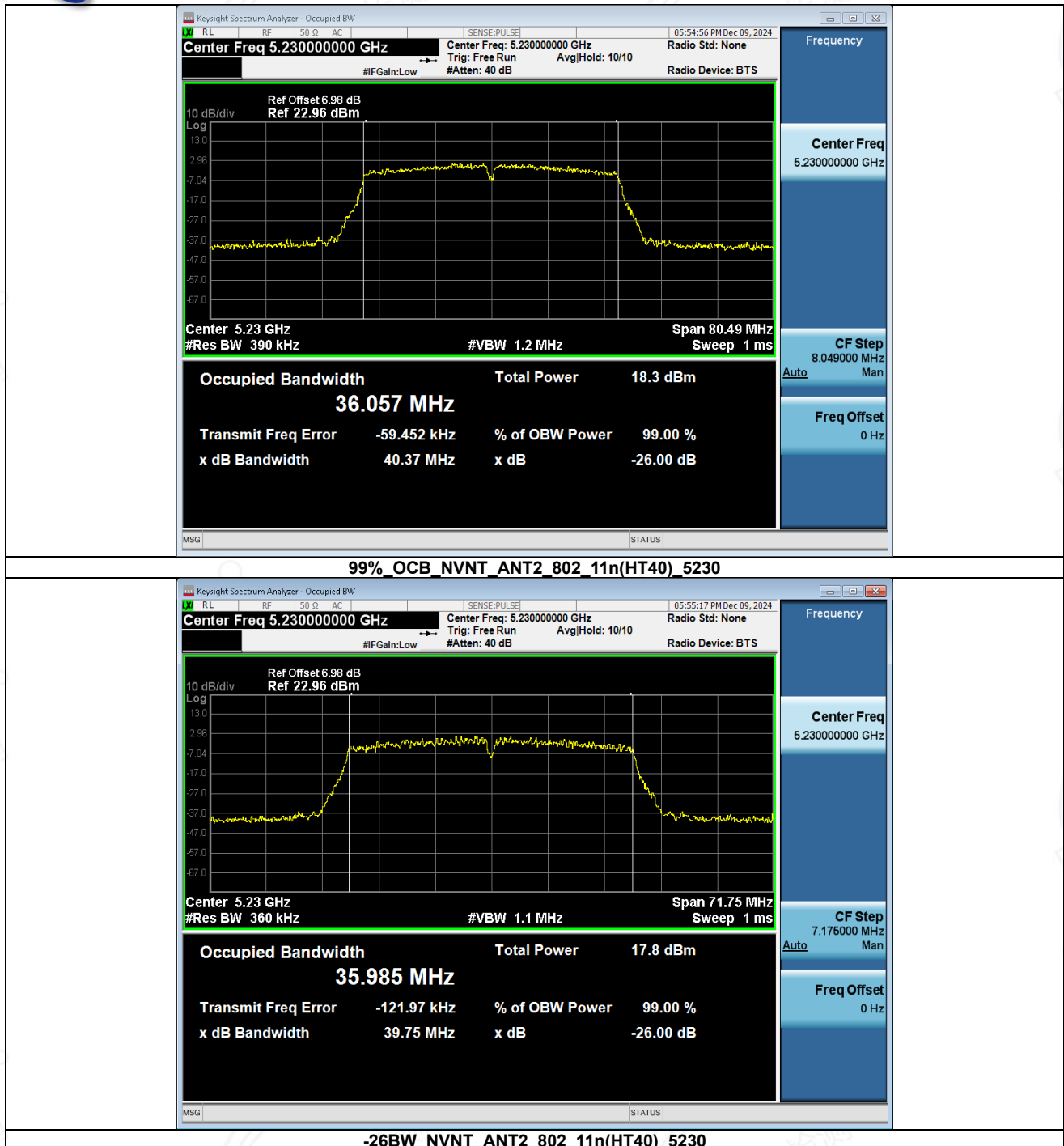
-26BW_NVNT_ANT2_802_11ac(VHT20)_5240

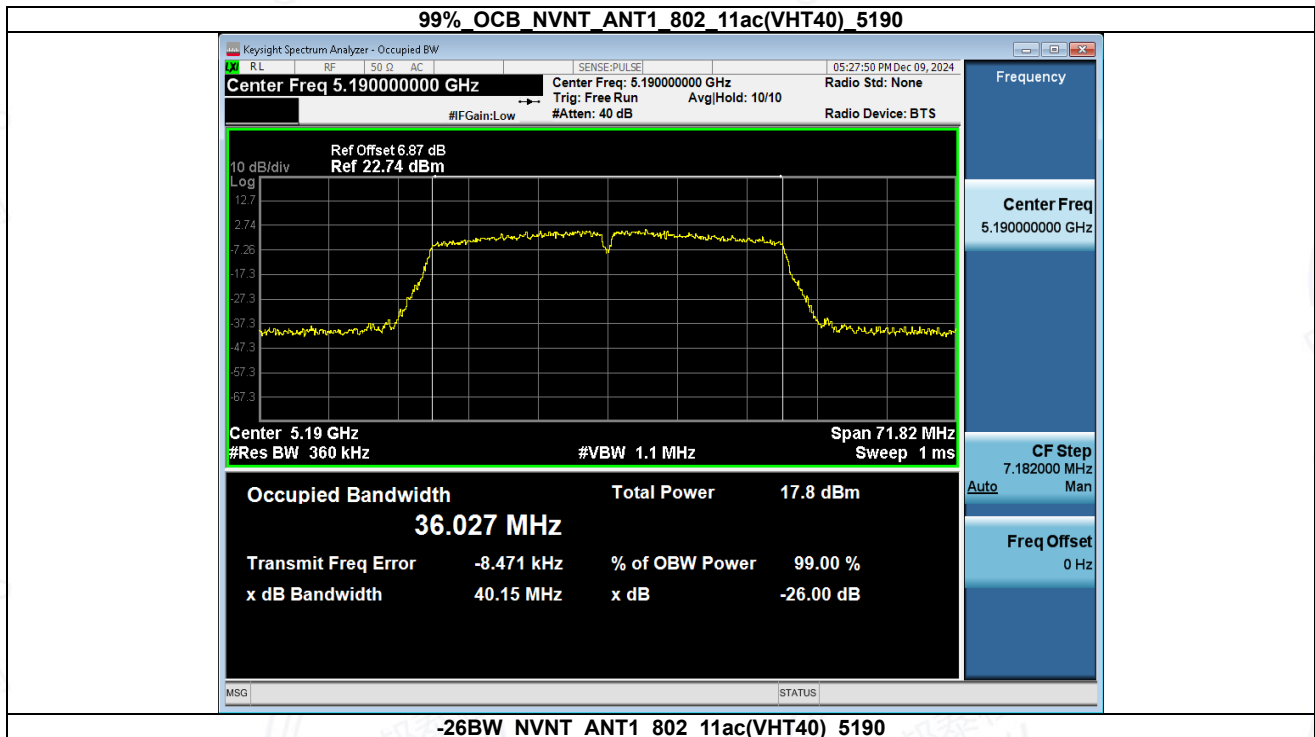
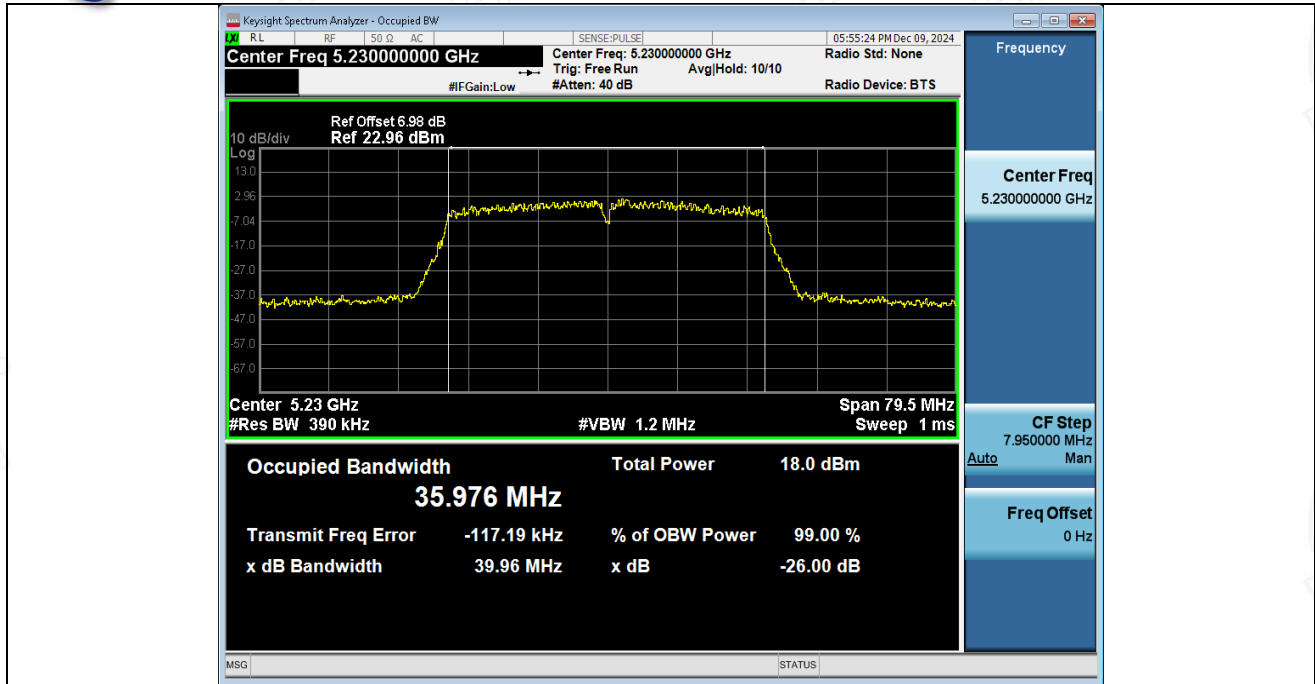


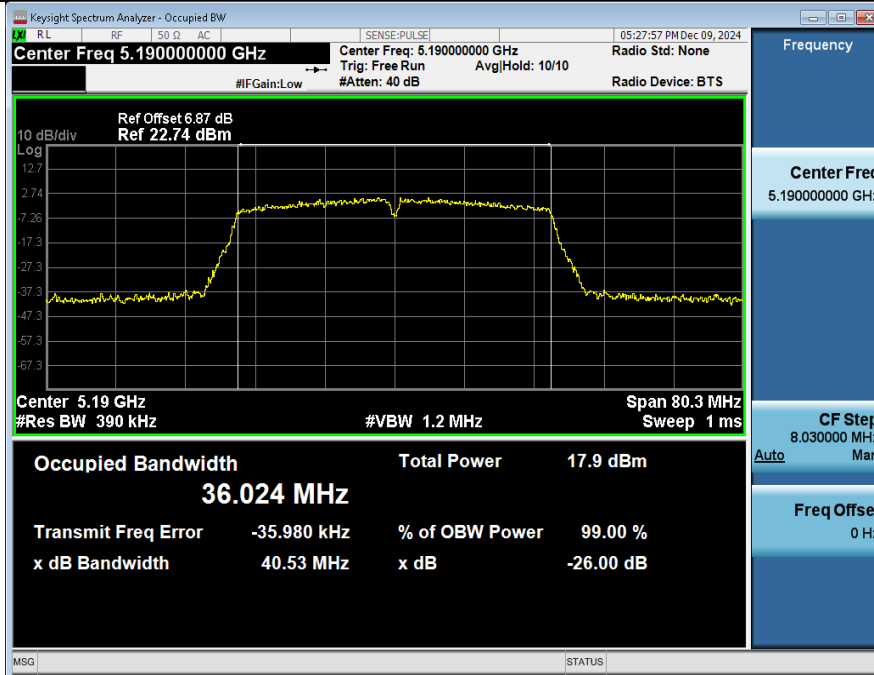




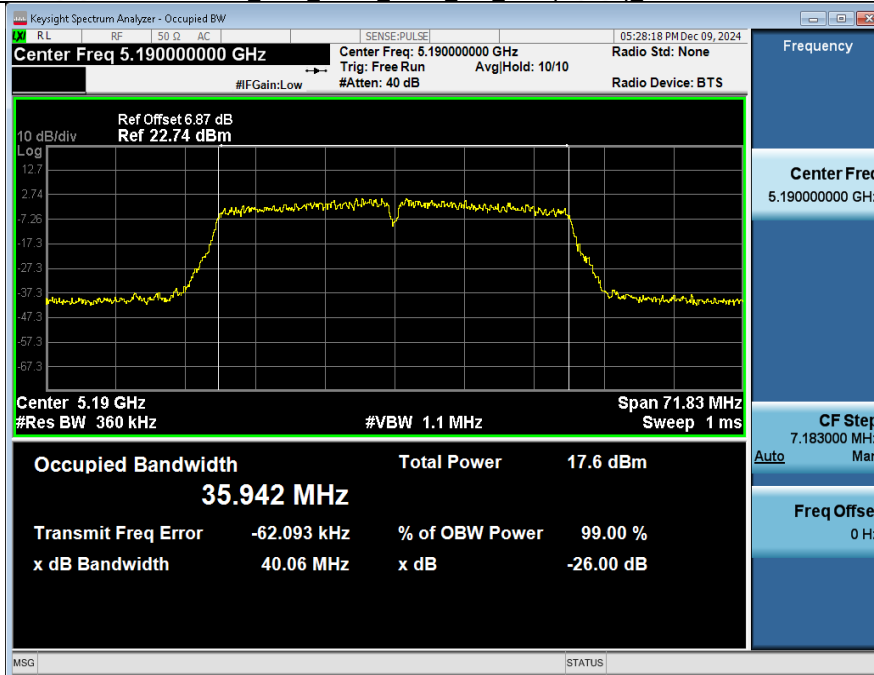






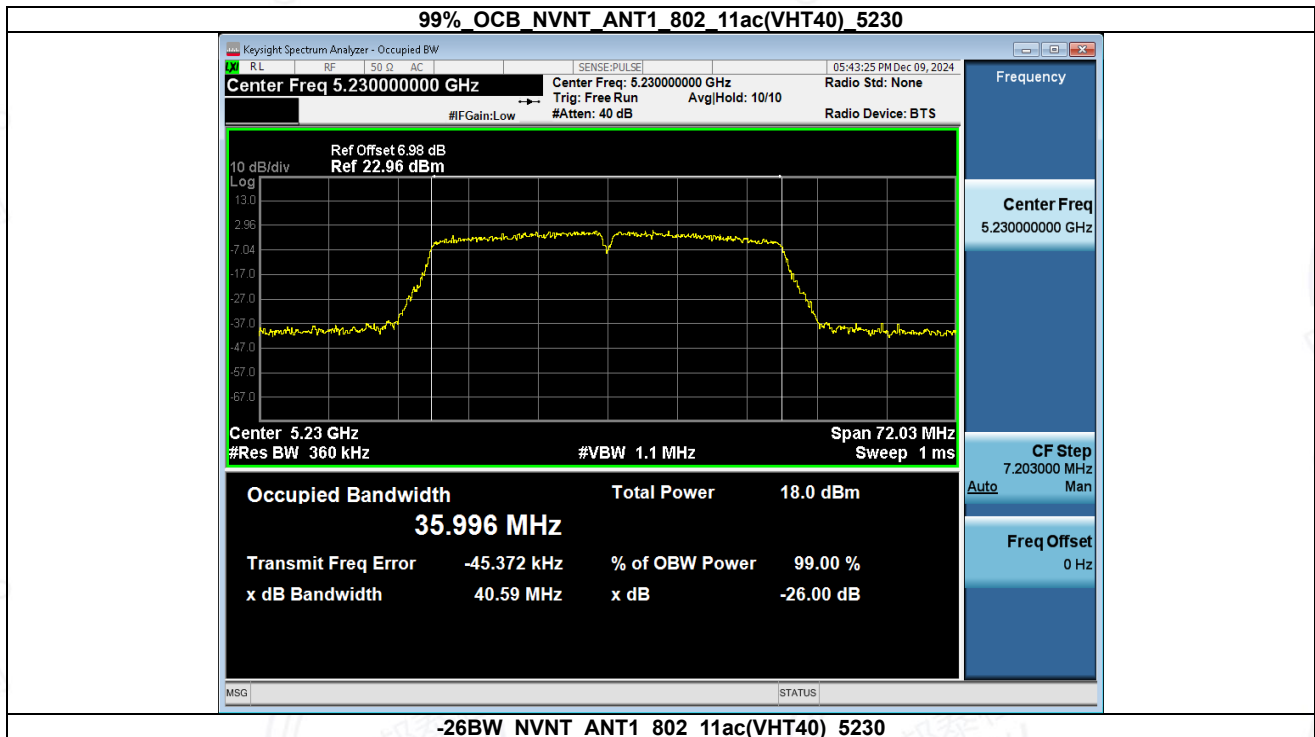
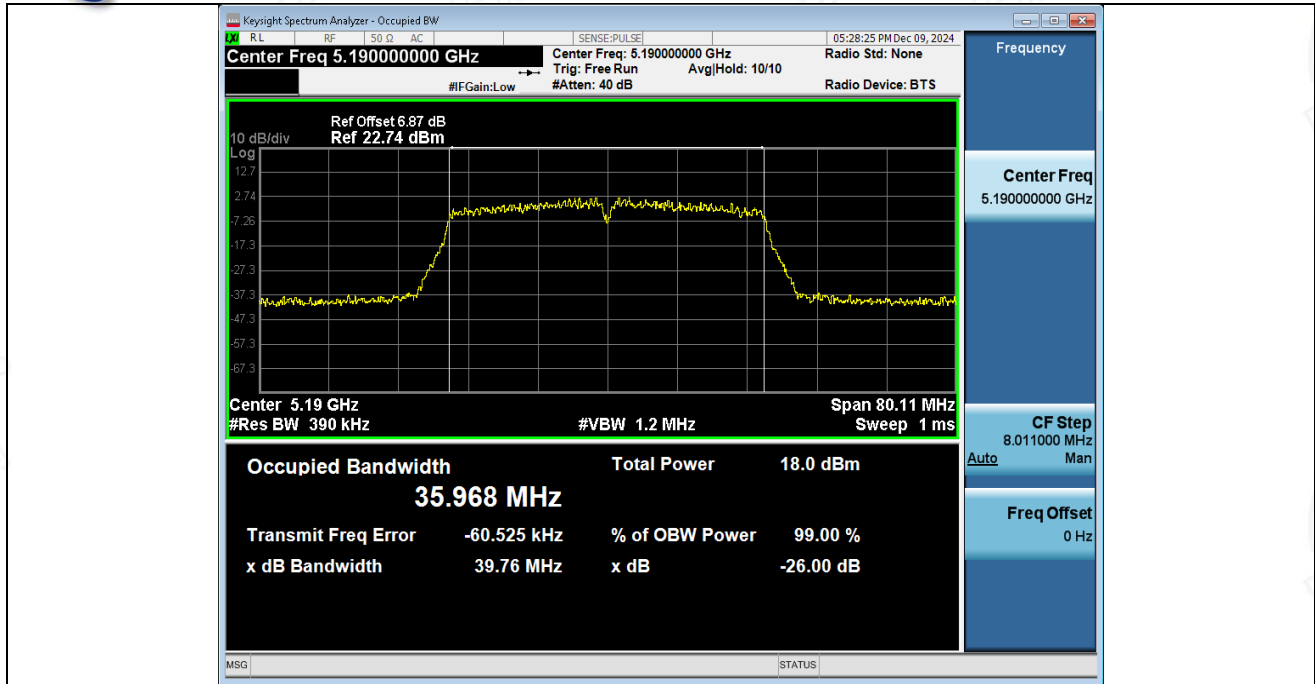


99%_OCB_NVNT_ANT2_802_11ac(VHT40)_5190



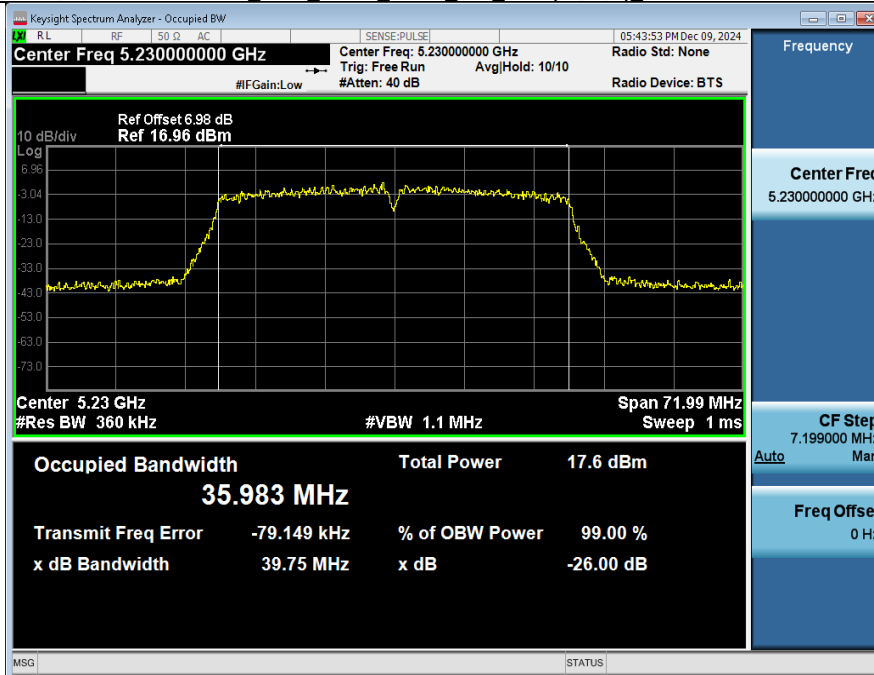
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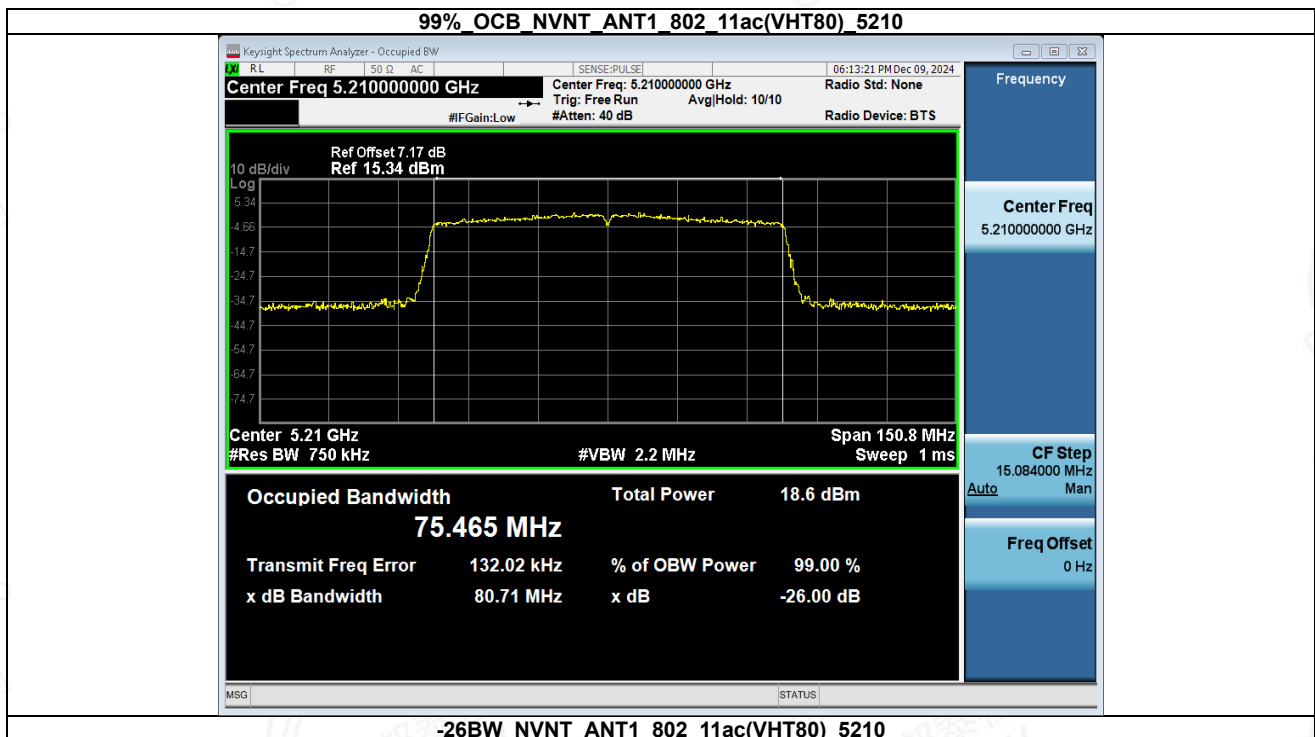
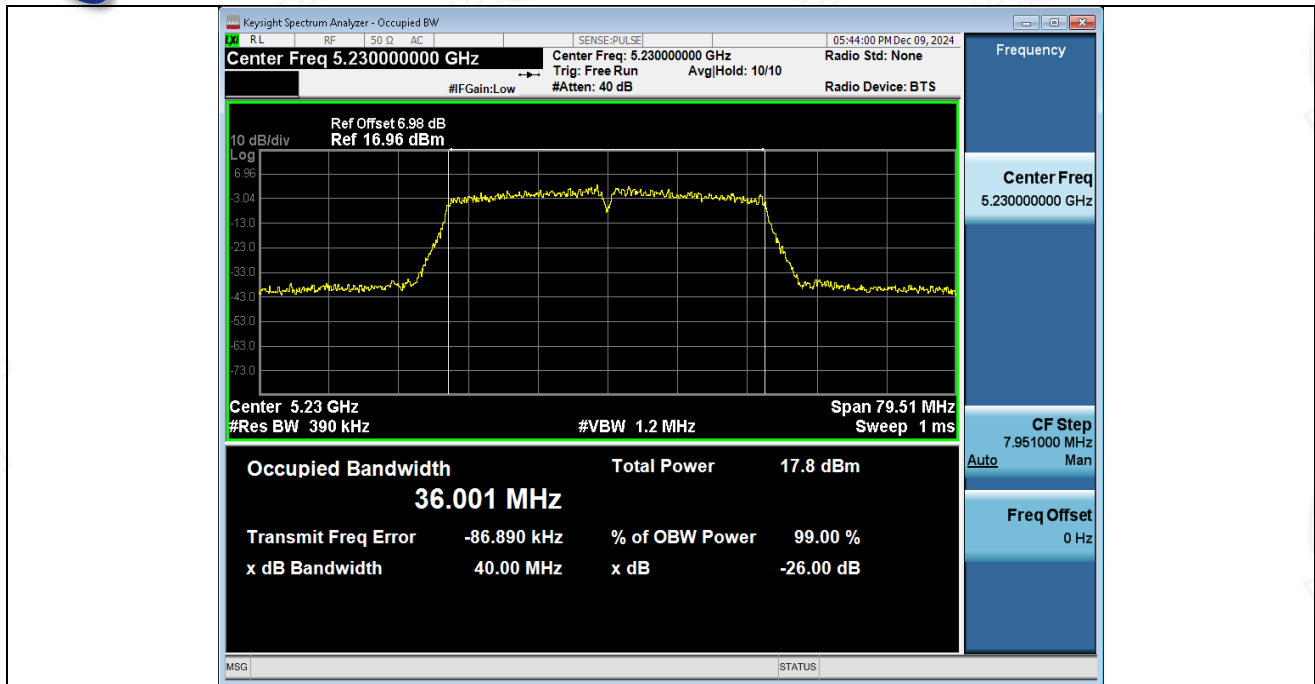


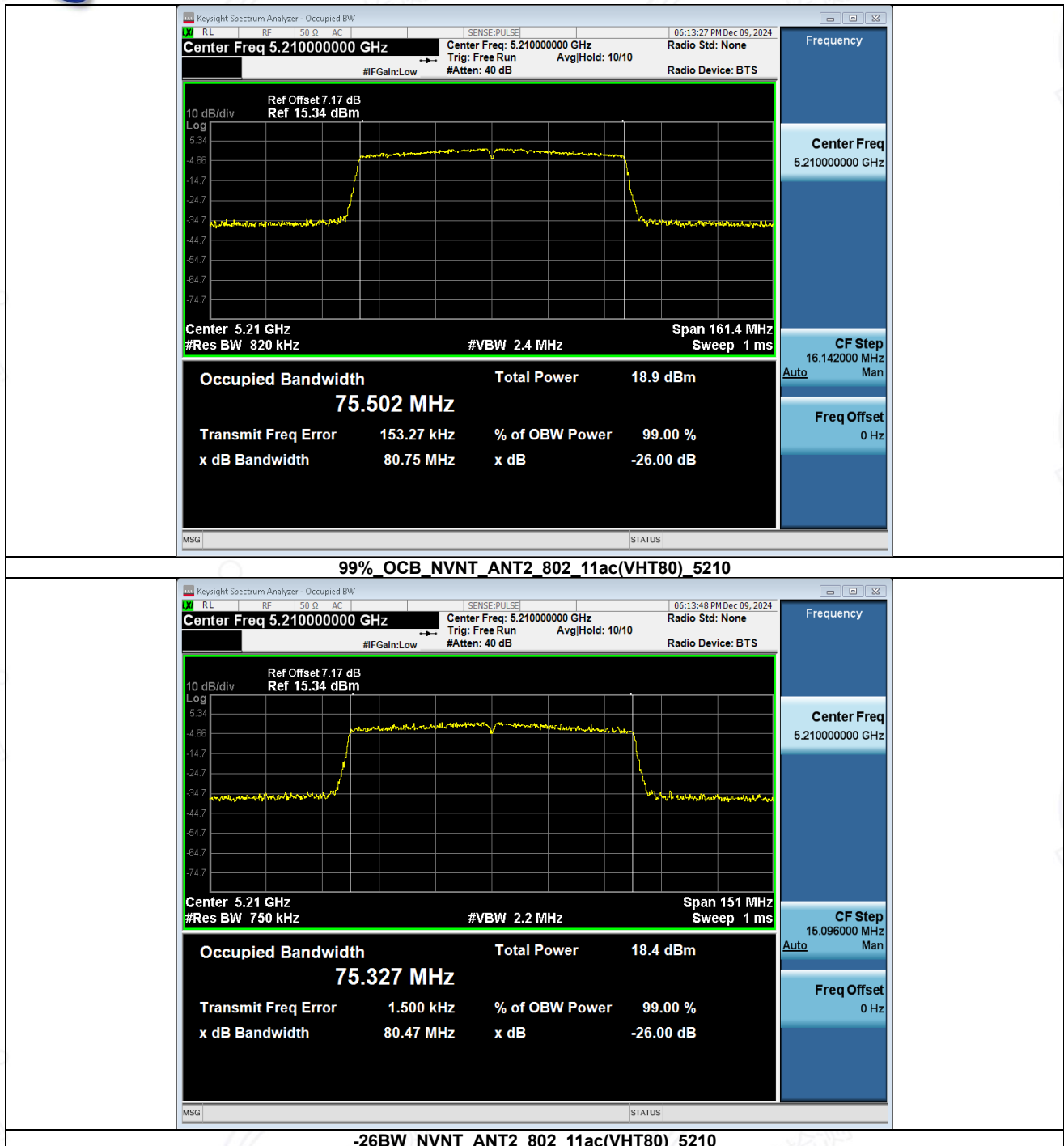
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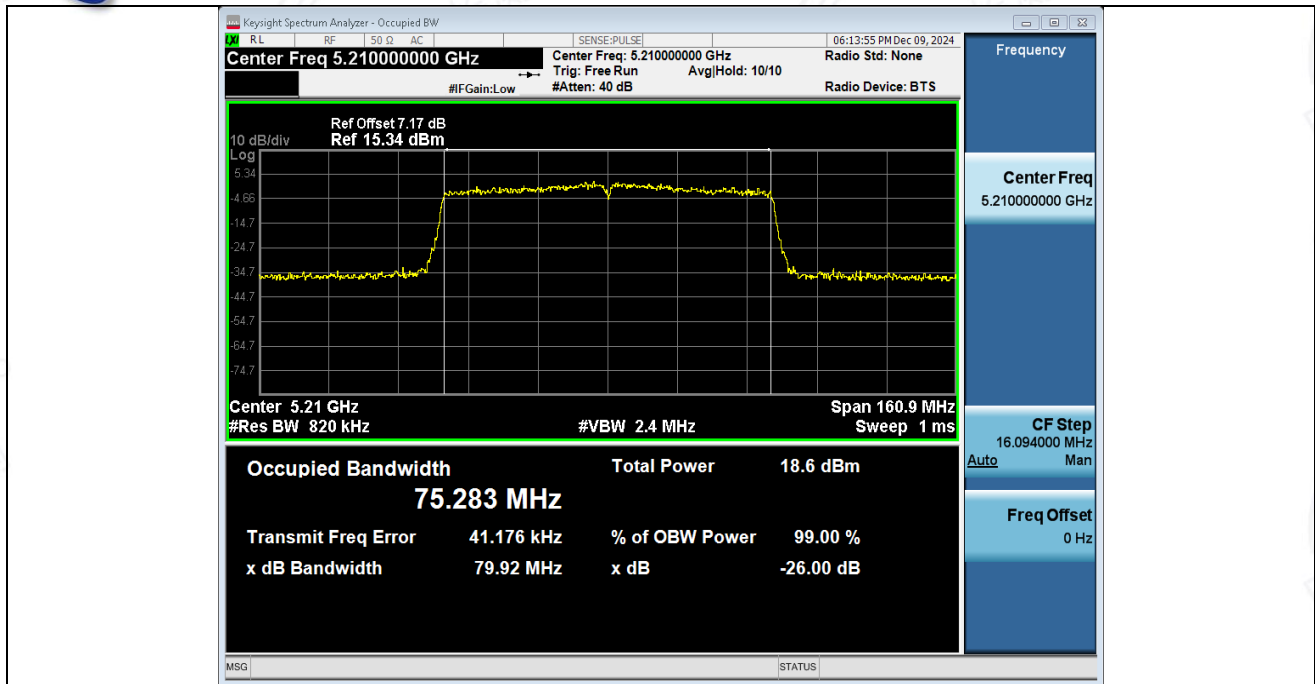


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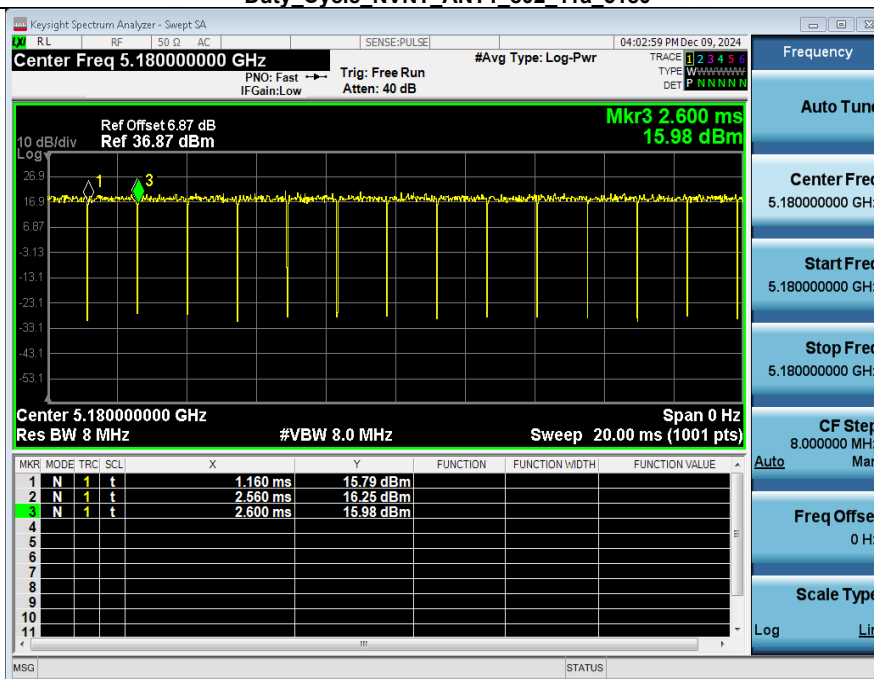




2. Duty Cycle

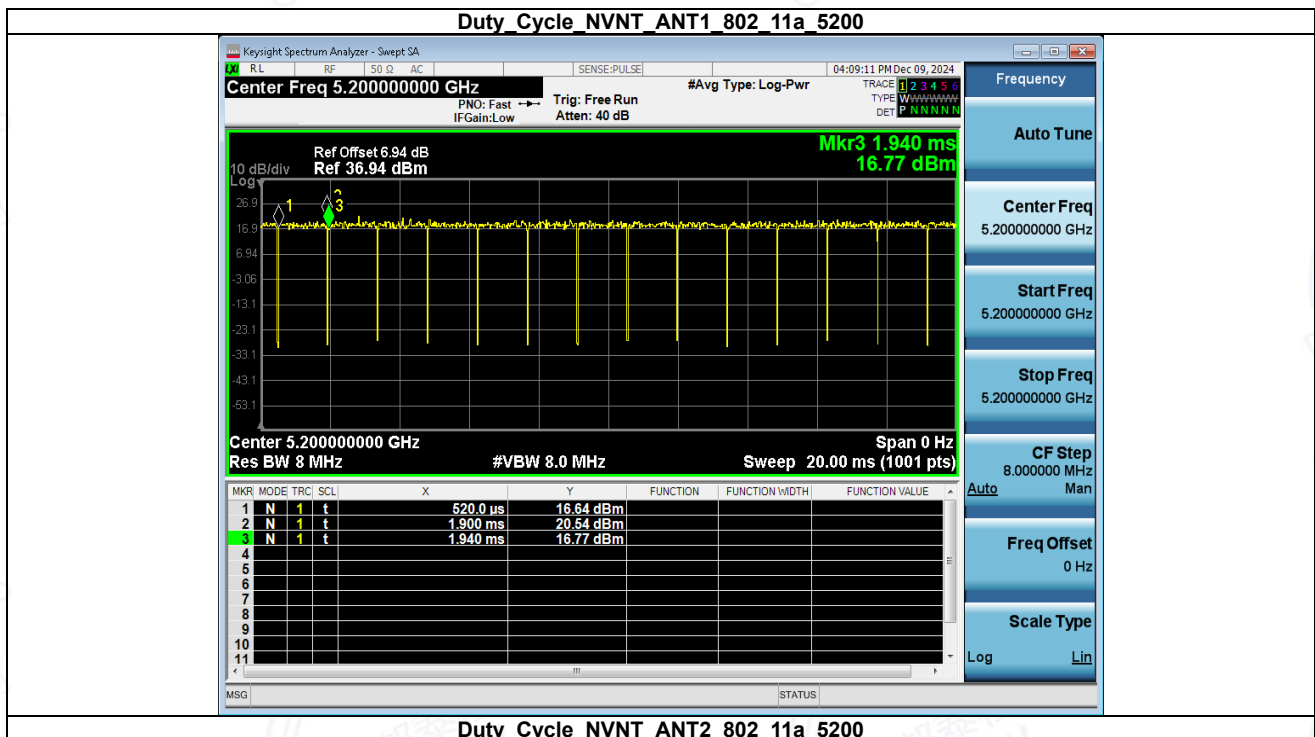
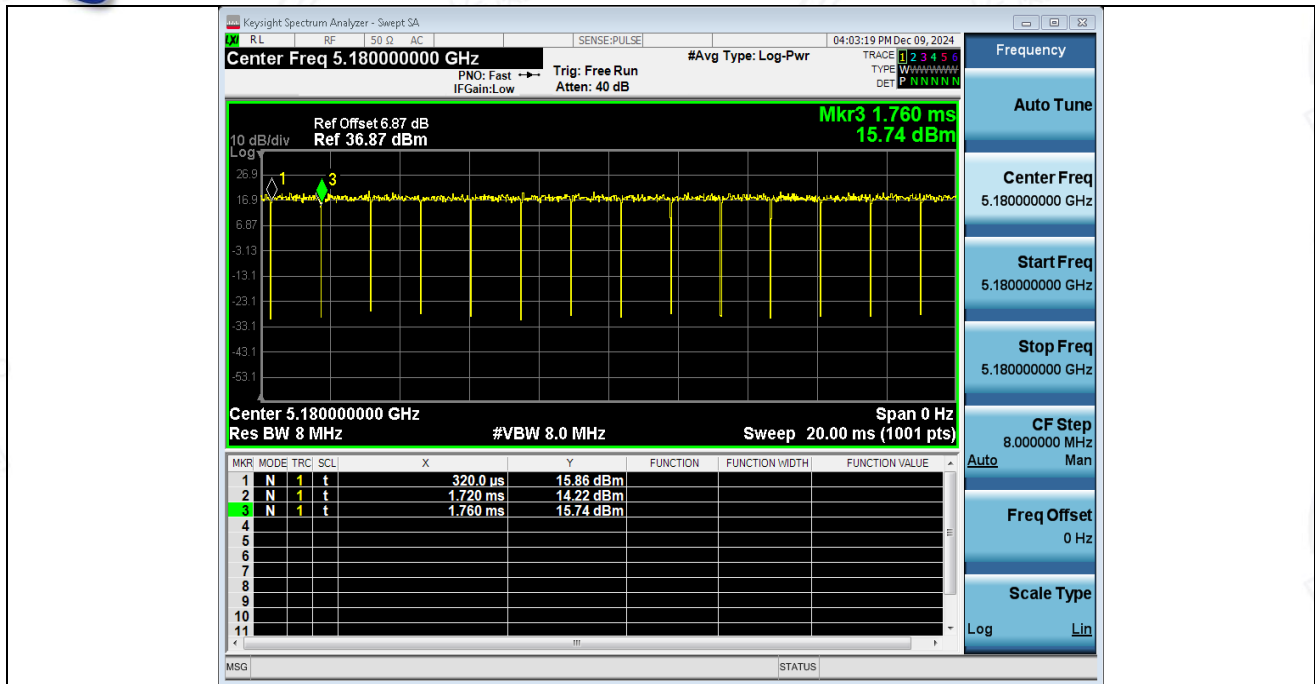
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	97.22	0.12
NVNT	ANT2	802.11a	5180.00	97.22	0.12
NVNT	ANT1	802.11a	5200.00	97.18	0.12
NVNT	ANT2	802.11a	5200.00	95.83	0.18
NVNT	ANT1	802.11a	5240.00	97.22	0.12
NVNT	ANT2	802.11a	5240.00	97.22	0.12
NVNT	ANT1	802.11n(HT20)	5180.00	97.01	0.13
NVNT	ANT2	802.11n(HT20)	5180.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5200.00	97.01	0.13
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	91.89	0.37
NVNT	ANT2	802.11ac(VHT20)	5180.00	94.44	0.25
NVNT	ANT1	802.11ac(VHT20)	5200.00	91.89	0.37
NVNT	ANT2	802.11ac(VHT20)	5200.00	94.44	0.25
NVNT	ANT1	802.11ac(VHT20)	5240.00	94.44	0.25
NVNT	ANT2	802.11ac(VHT20)	5240.00	94.44	0.25
NVNT	ANT1	802.11n(HT40)	5190.00	91.18	0.40
NVNT	ANT2	802.11n(HT40)	5190.00	94.12	0.26
NVNT	ANT1	802.11n(HT40)	5230.00	91.18	0.40
NVNT	ANT2	802.11n(HT40)	5230.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5190.00	90.00	0.46
NVNT	ANT2	802.11ac(VHT40)	5190.00	90.00	0.46
NVNT	ANT1	802.11ac(VHT40)	5230.00	90.00	0.46
NVNT	ANT2	802.11ac(VHT40)	5230.00	90.00	0.46
NVNT	ANT1	802.11ac(VHT80)	5210.00	83.33	0.79
NVNT	ANT2	802.11ac(VHT80)	5210.00	83.33	0.79

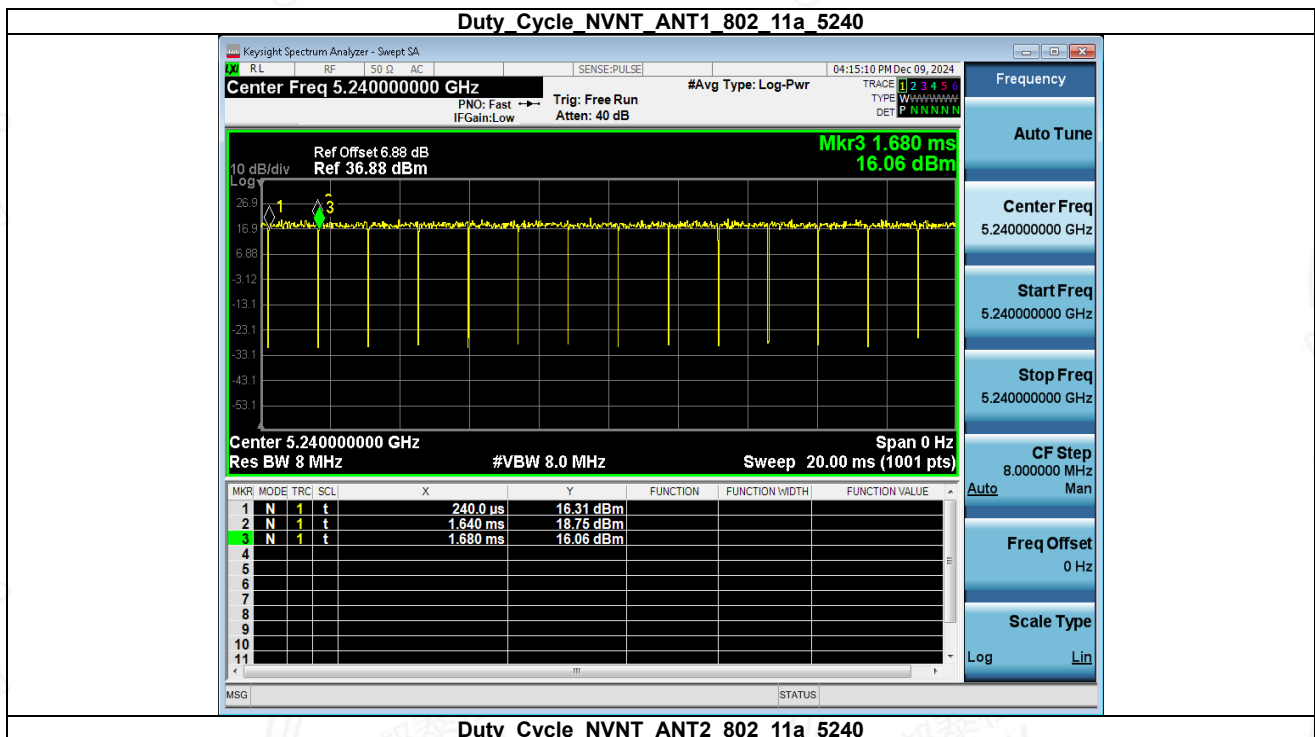
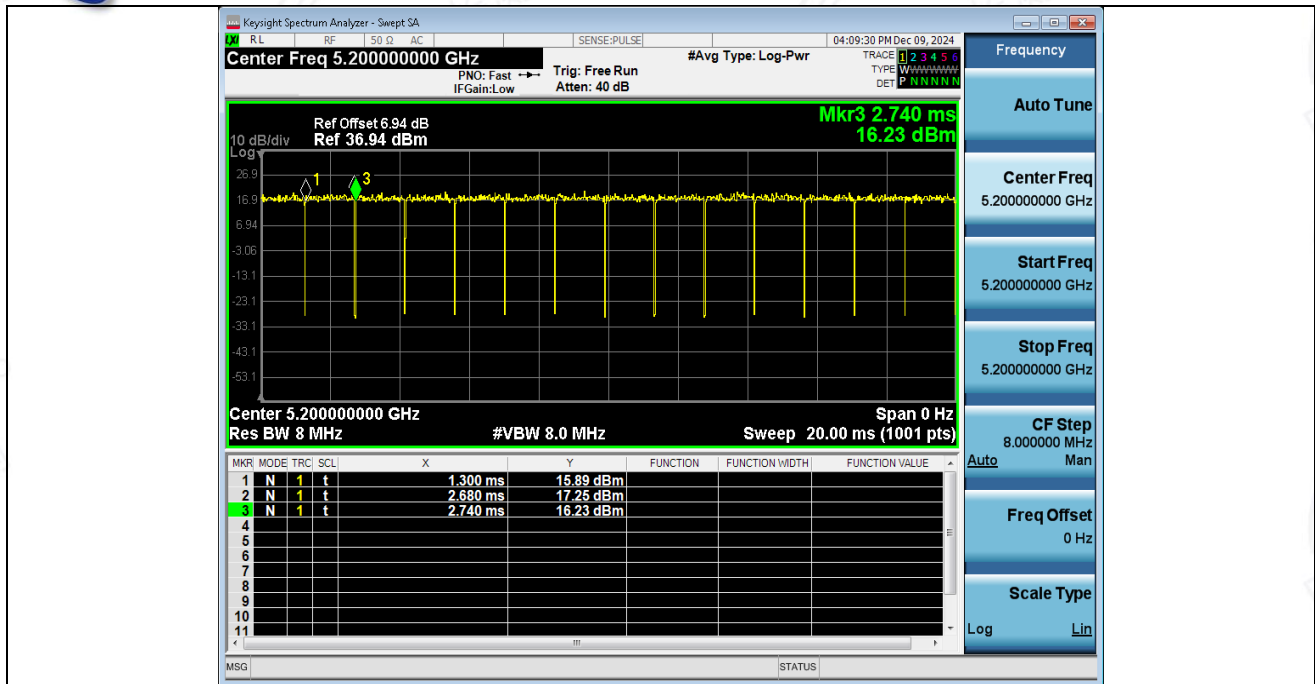
Duty Cycle NVNT ANT1 802_11a 5180

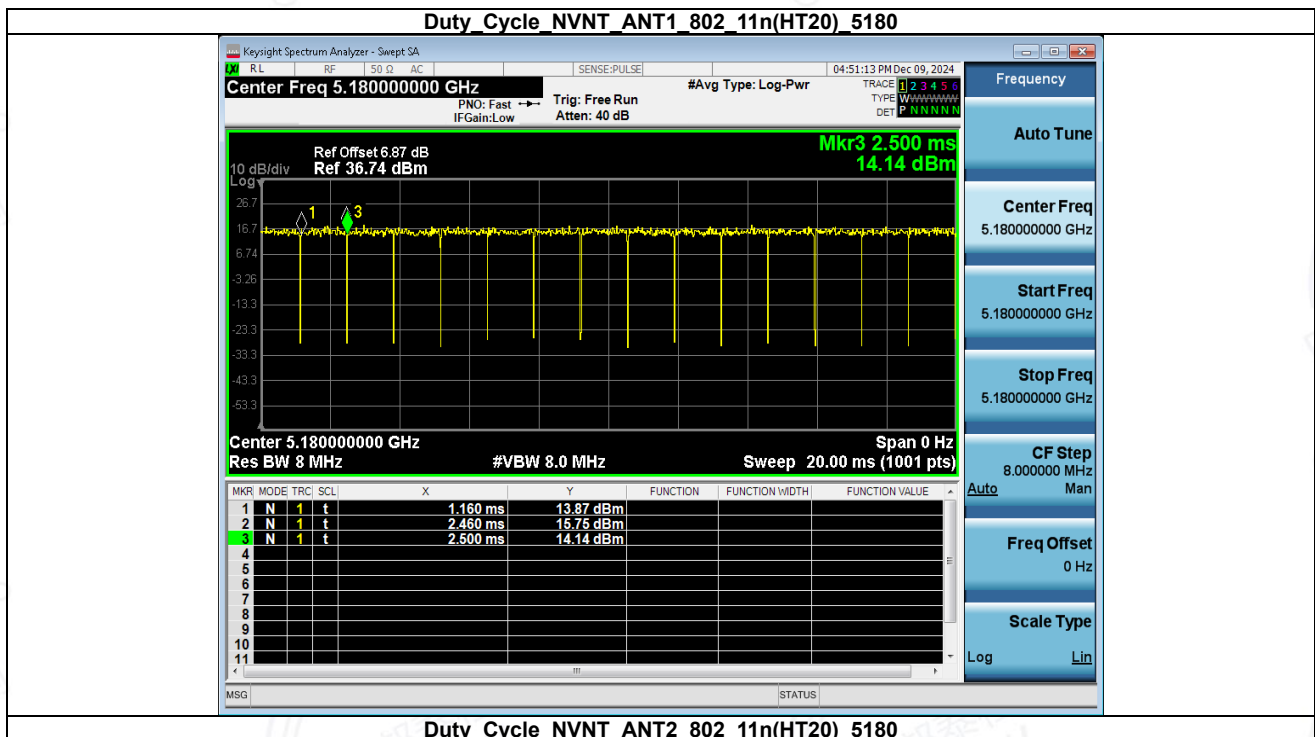
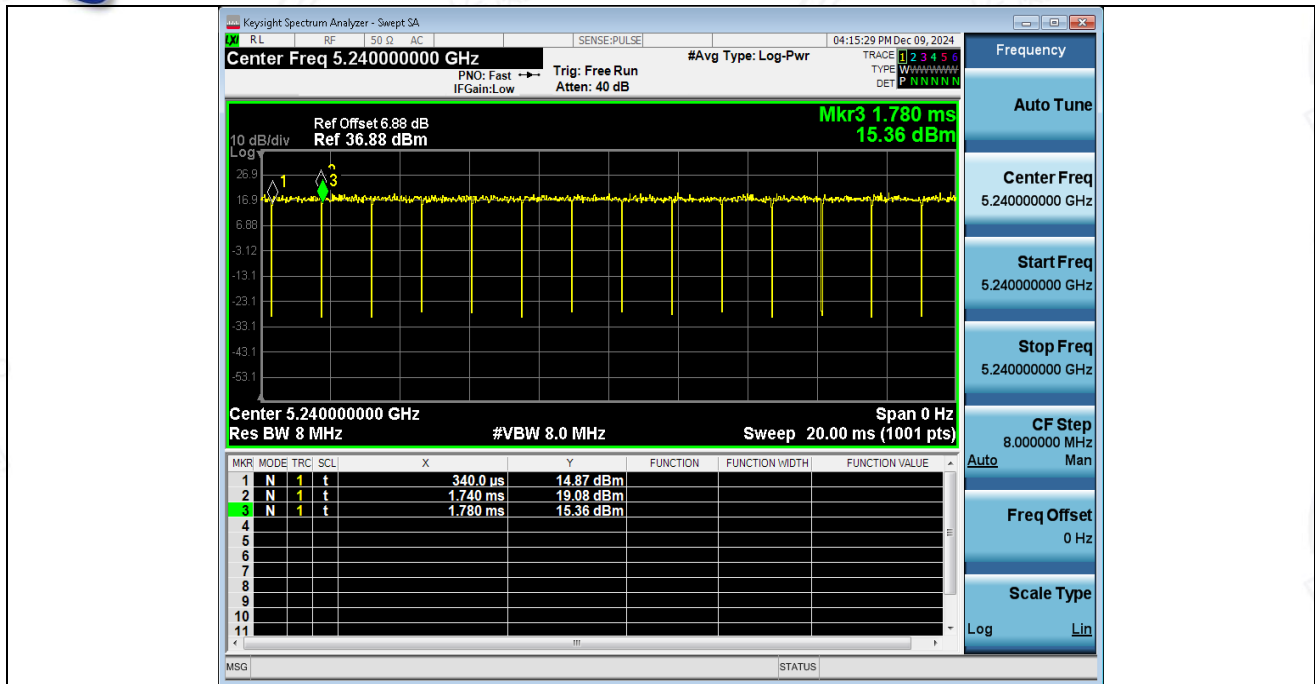


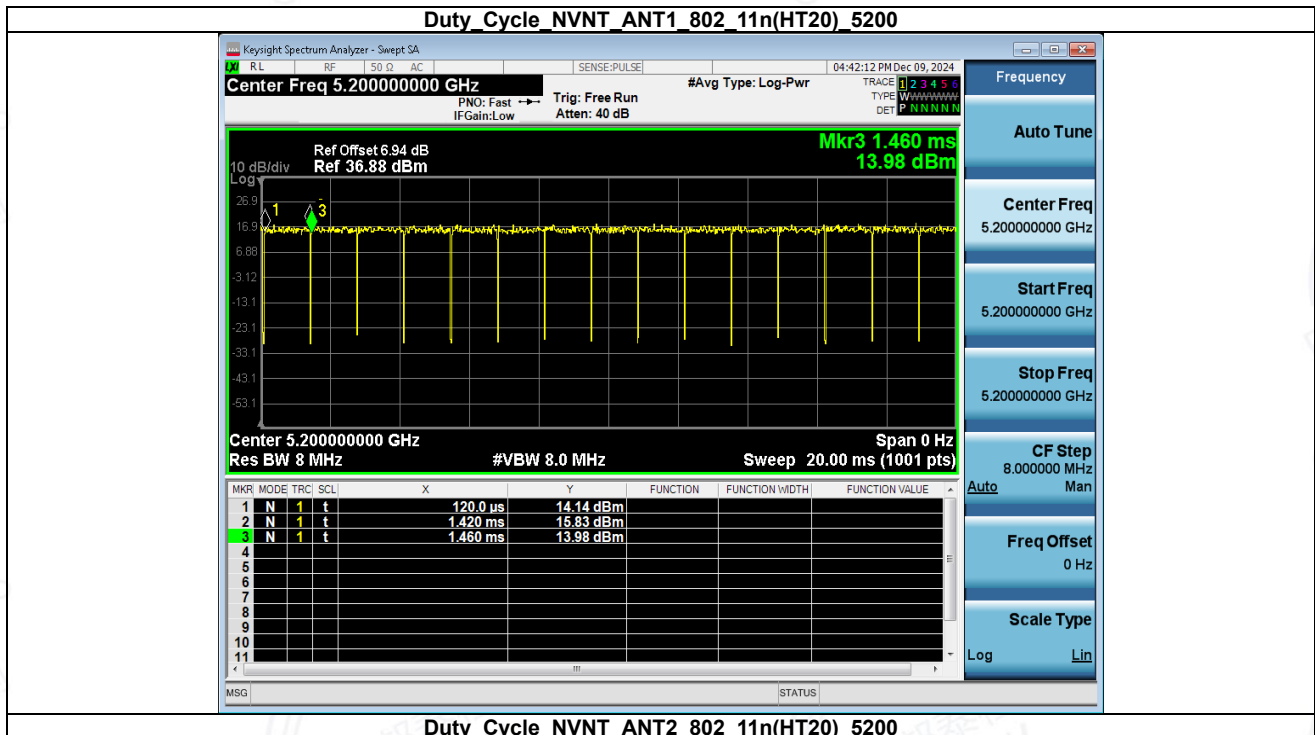
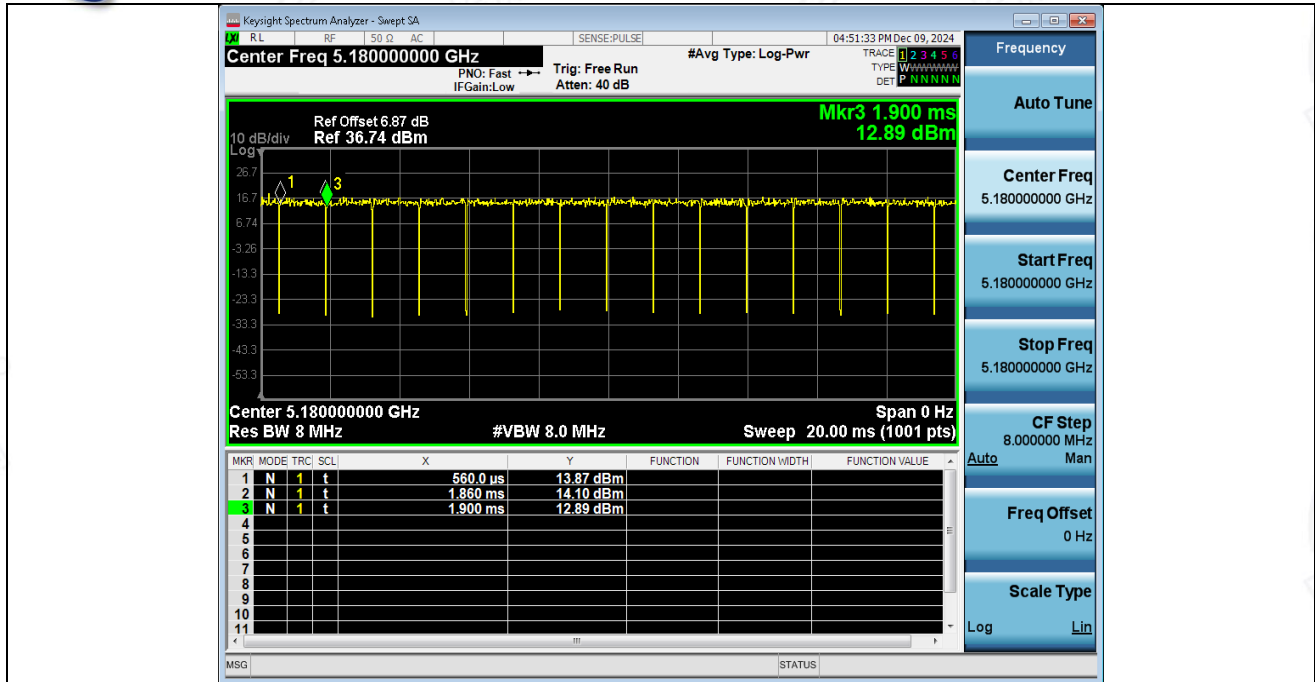
Duty Cycle NVNT ANT2 802_11a 5180

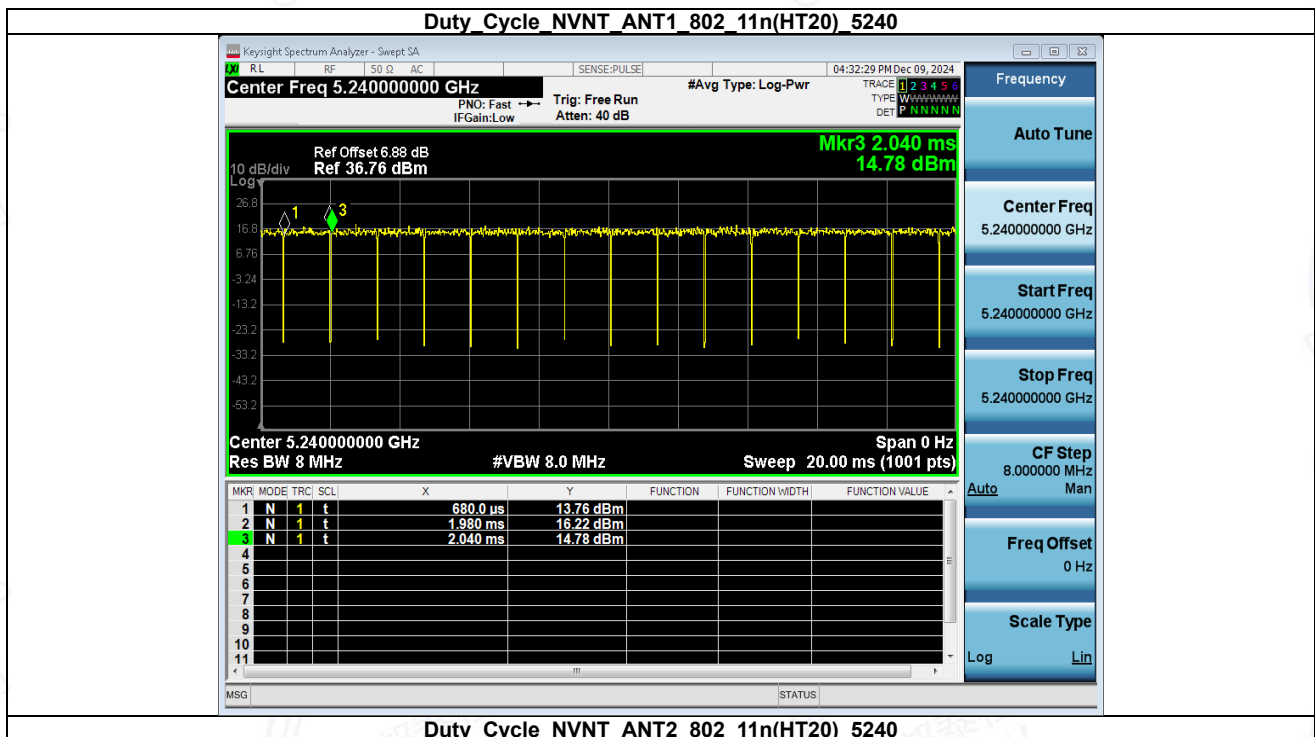
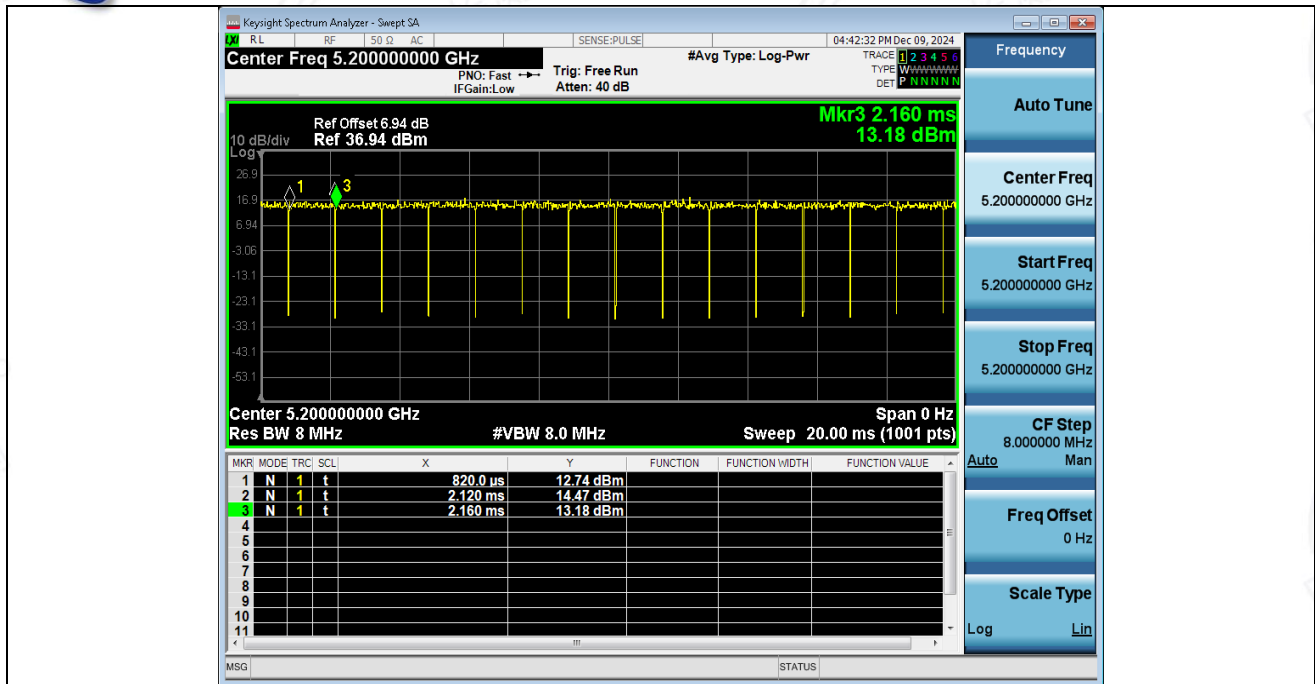


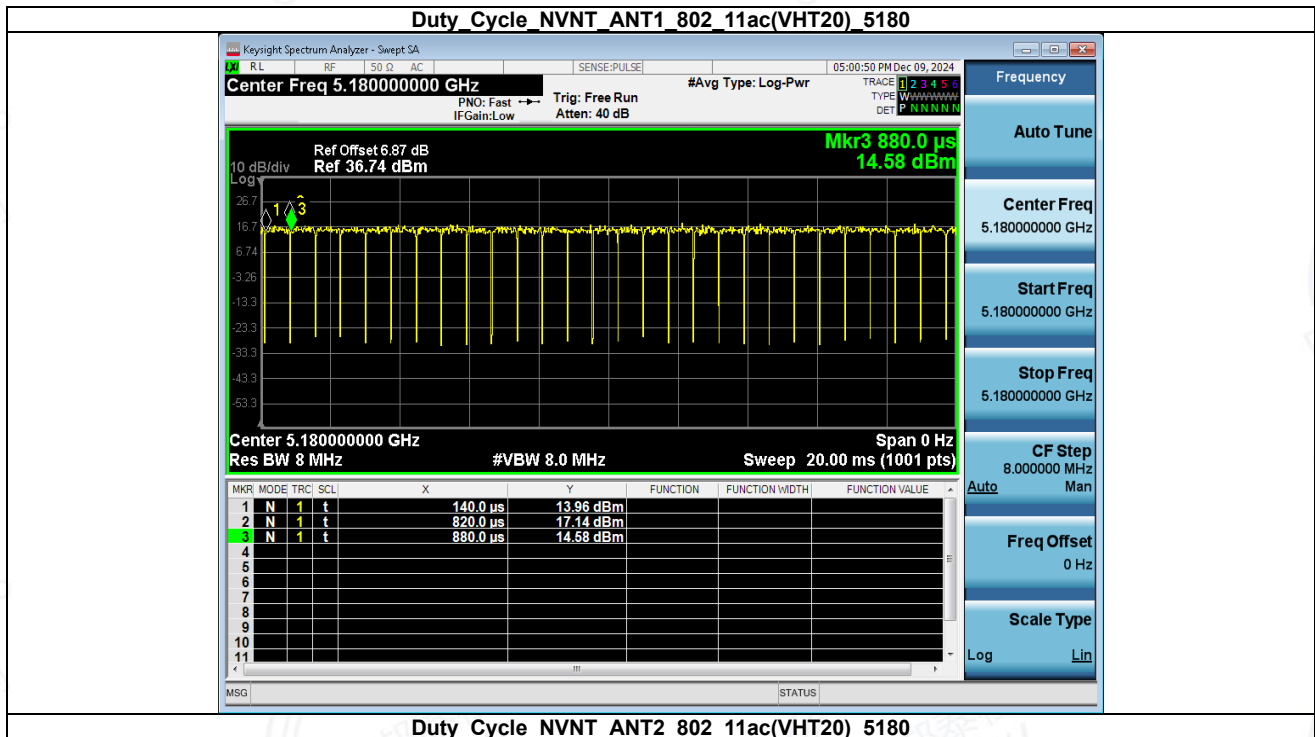
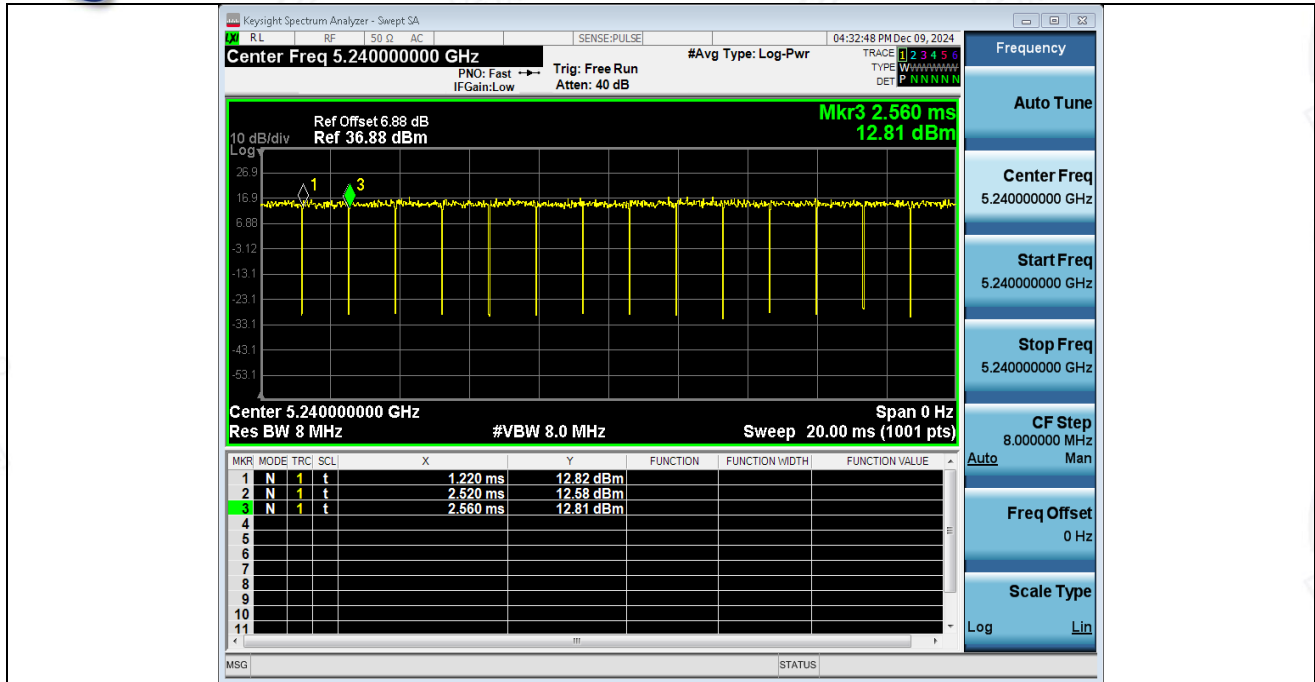


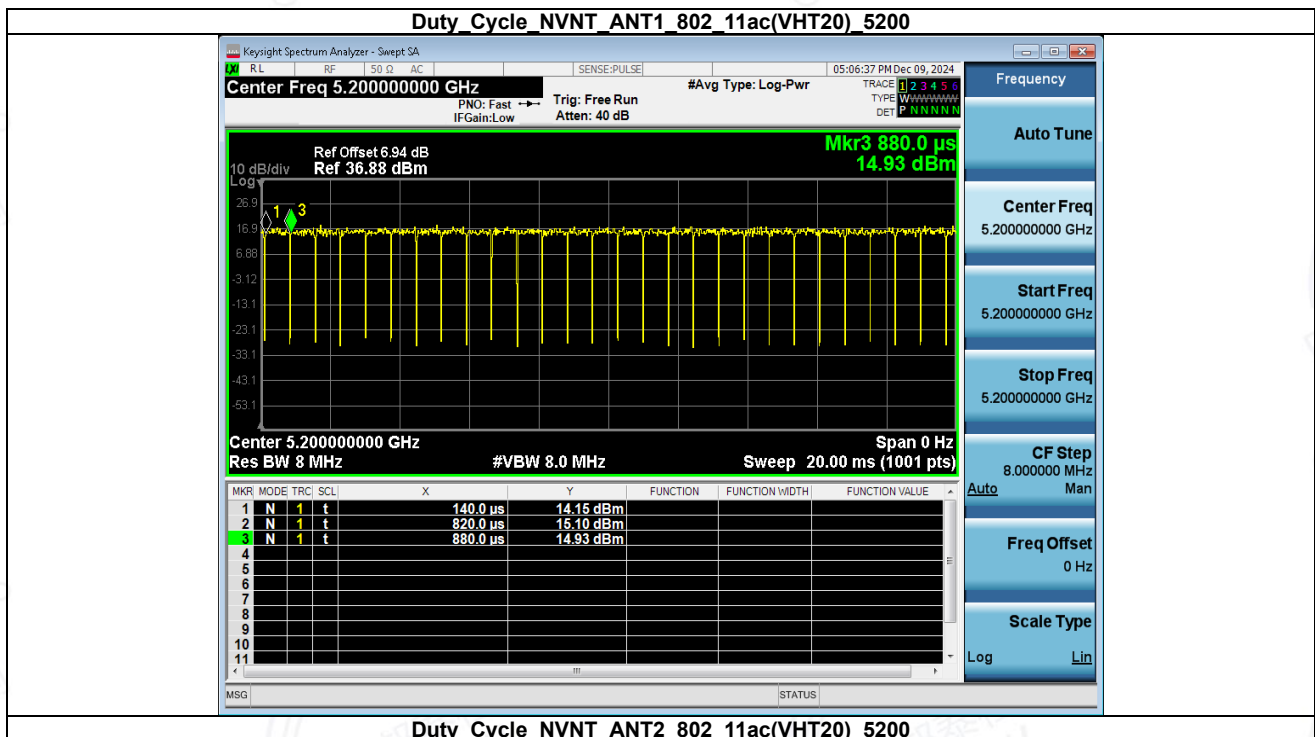
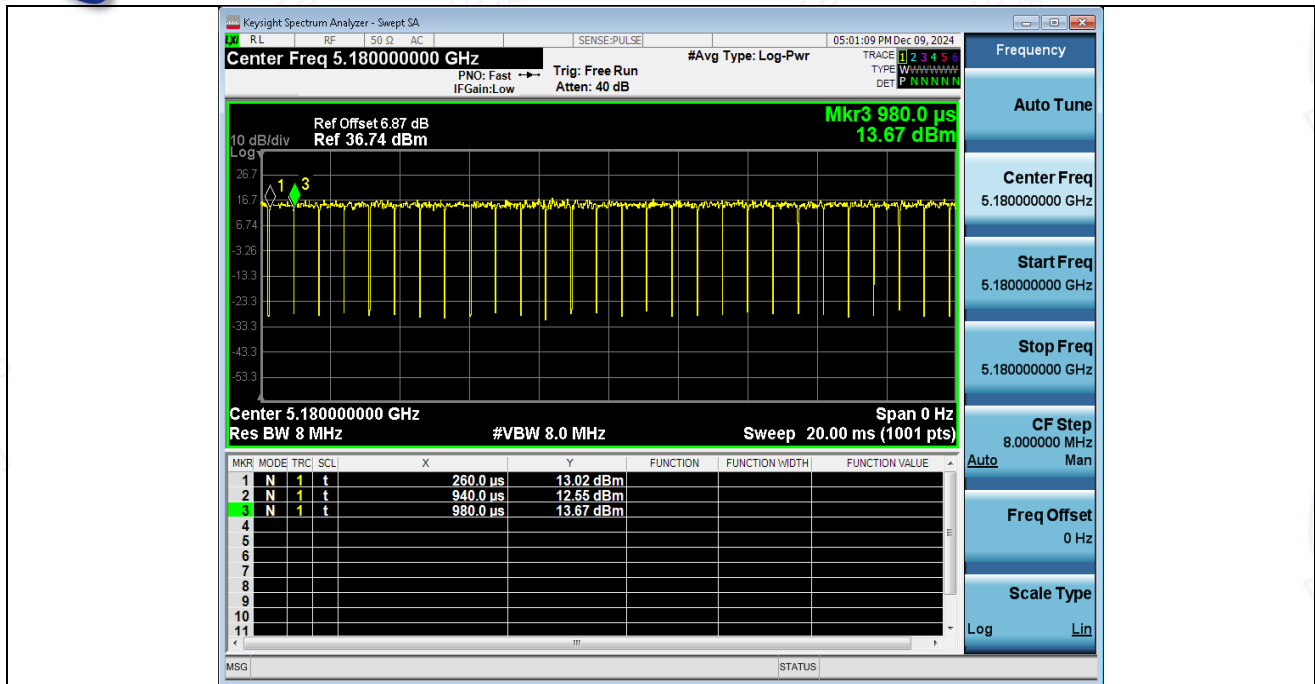


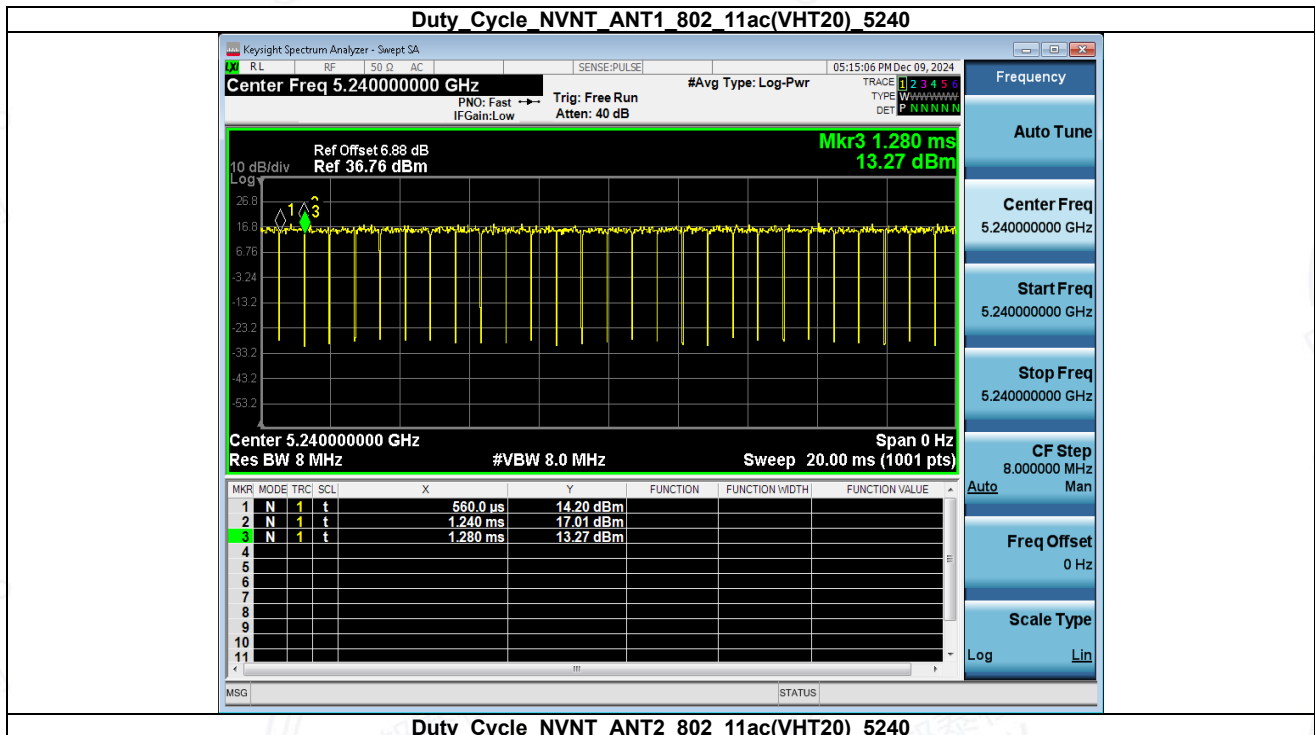
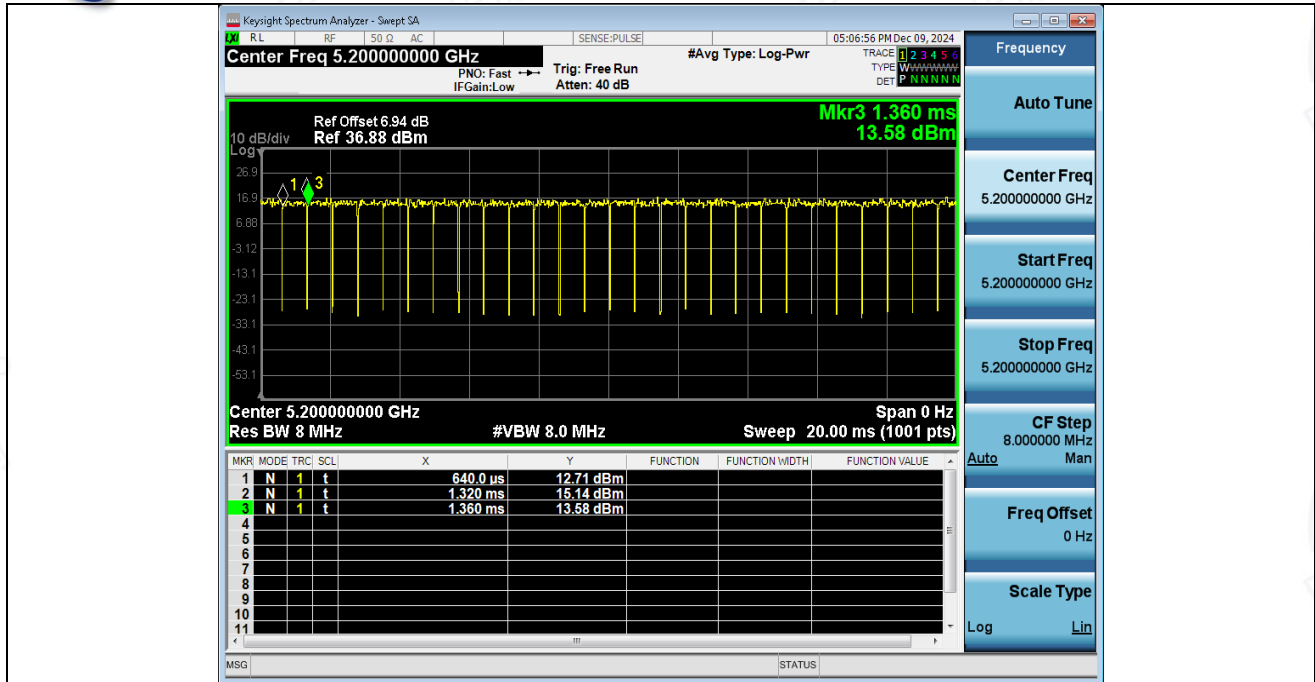


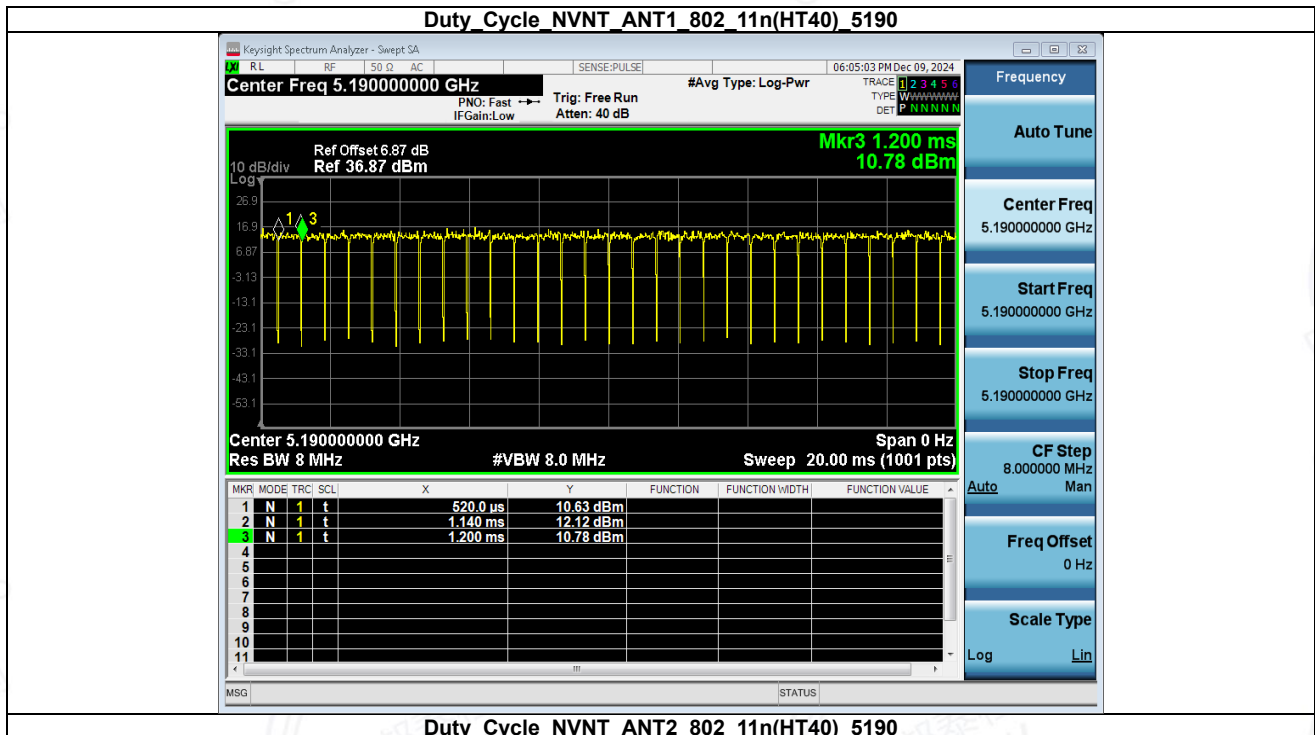
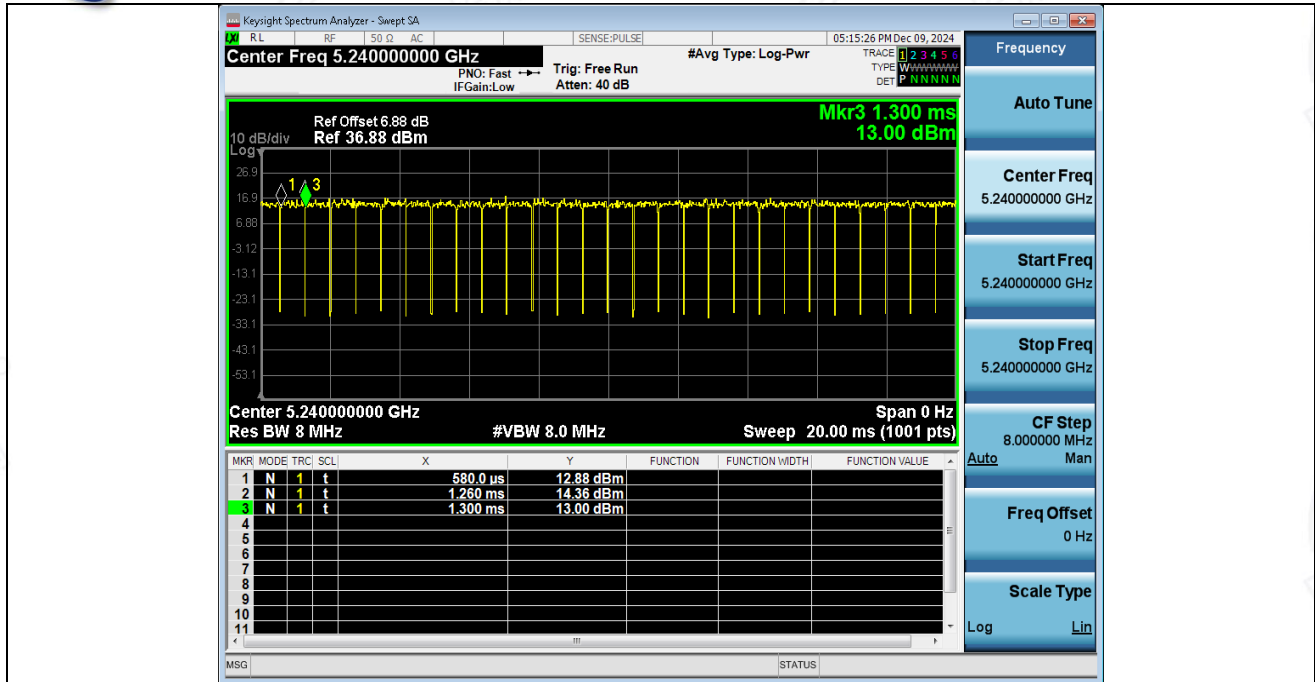


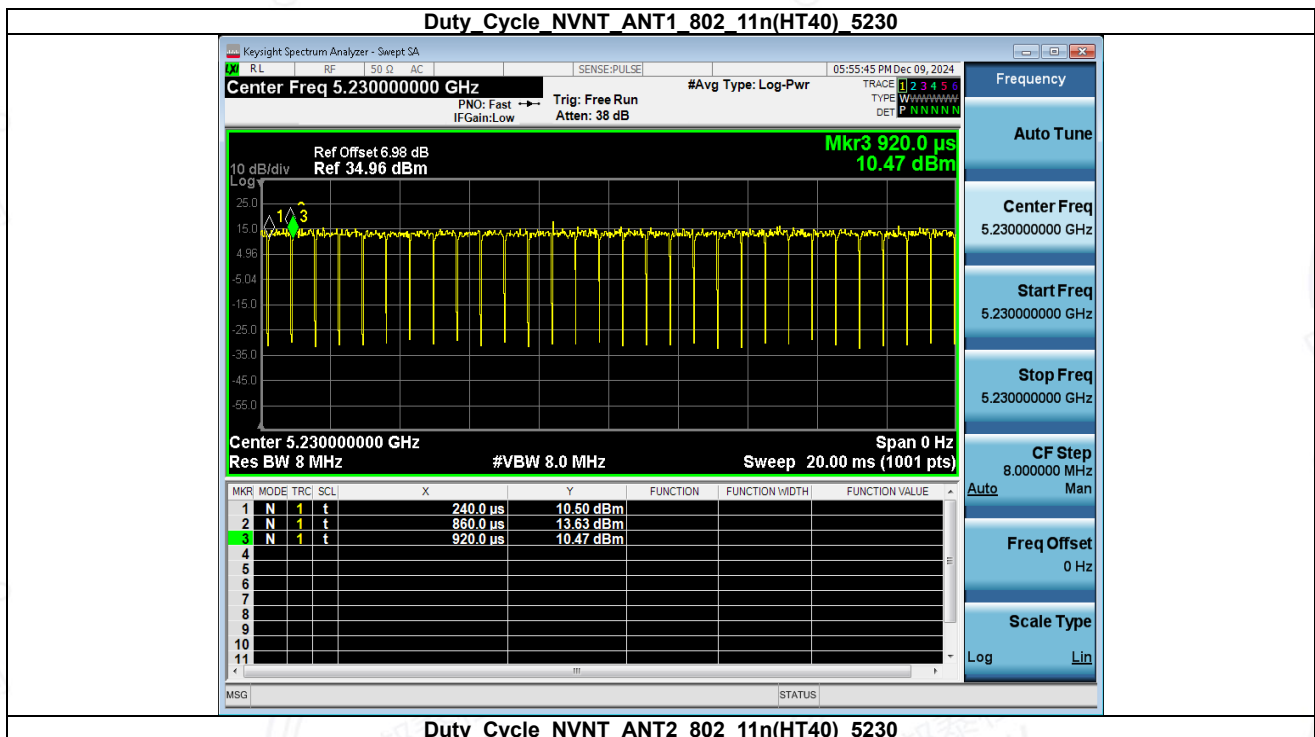
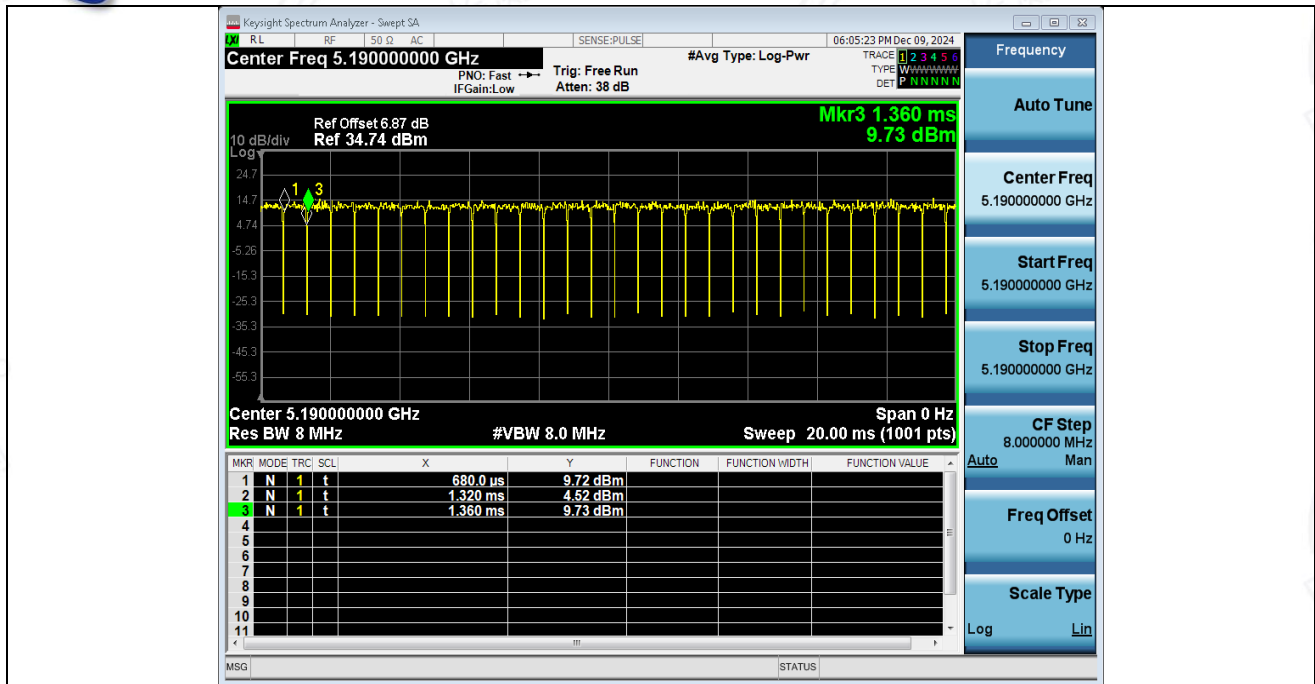


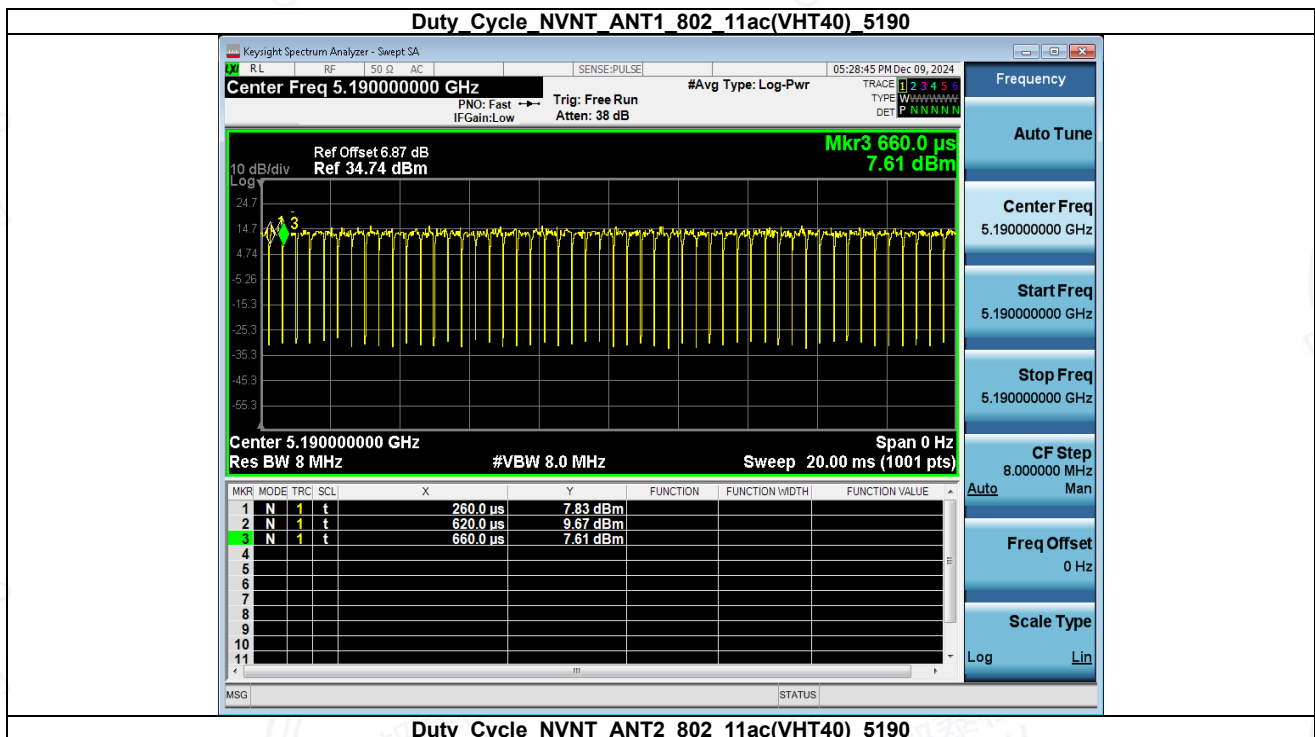
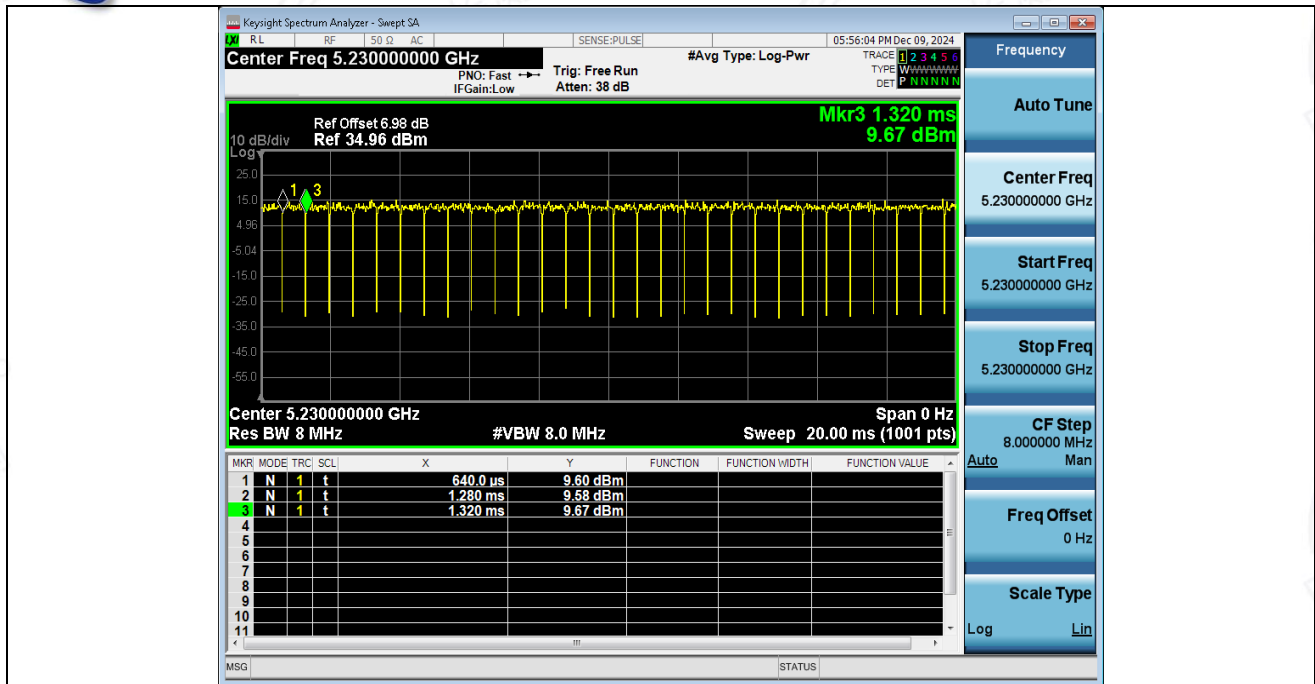


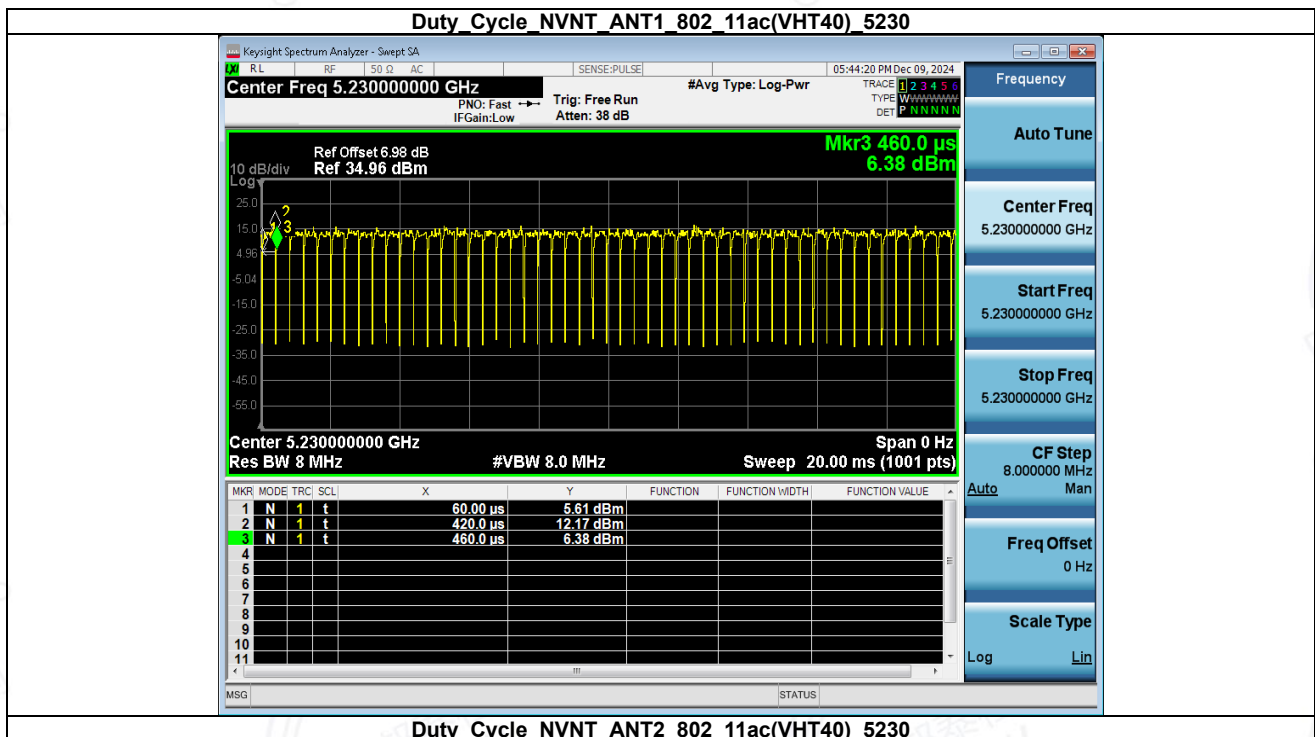
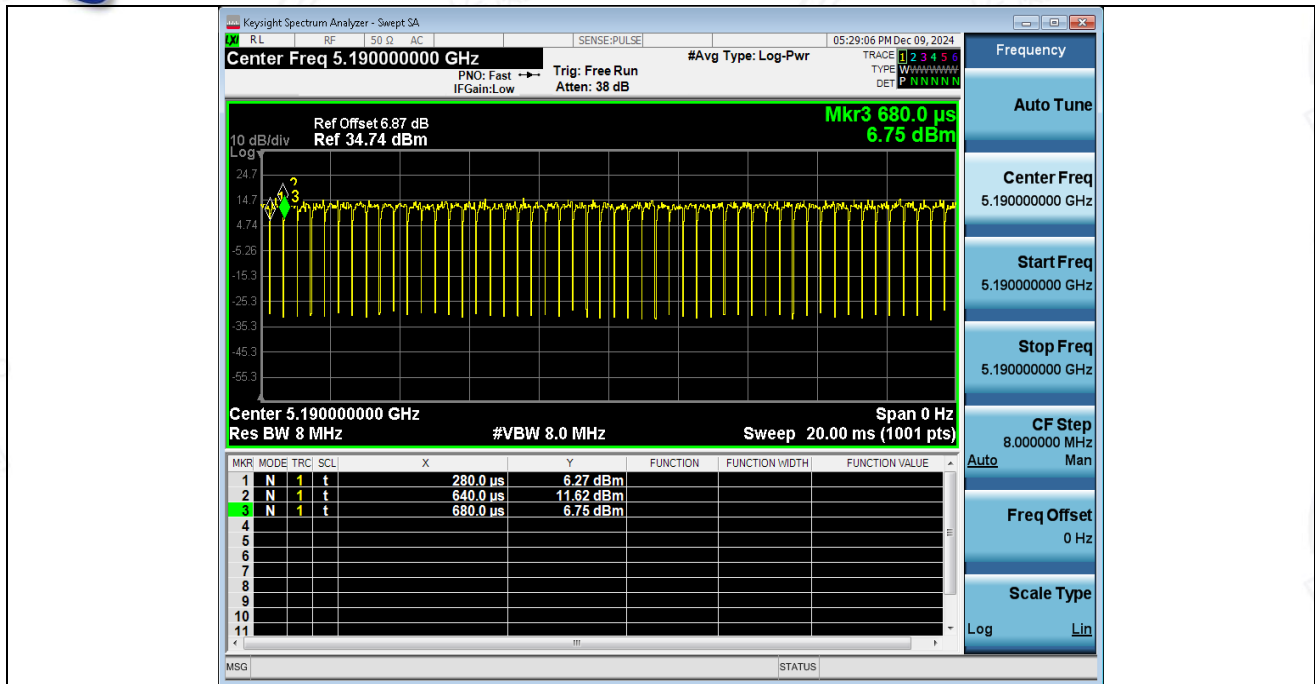


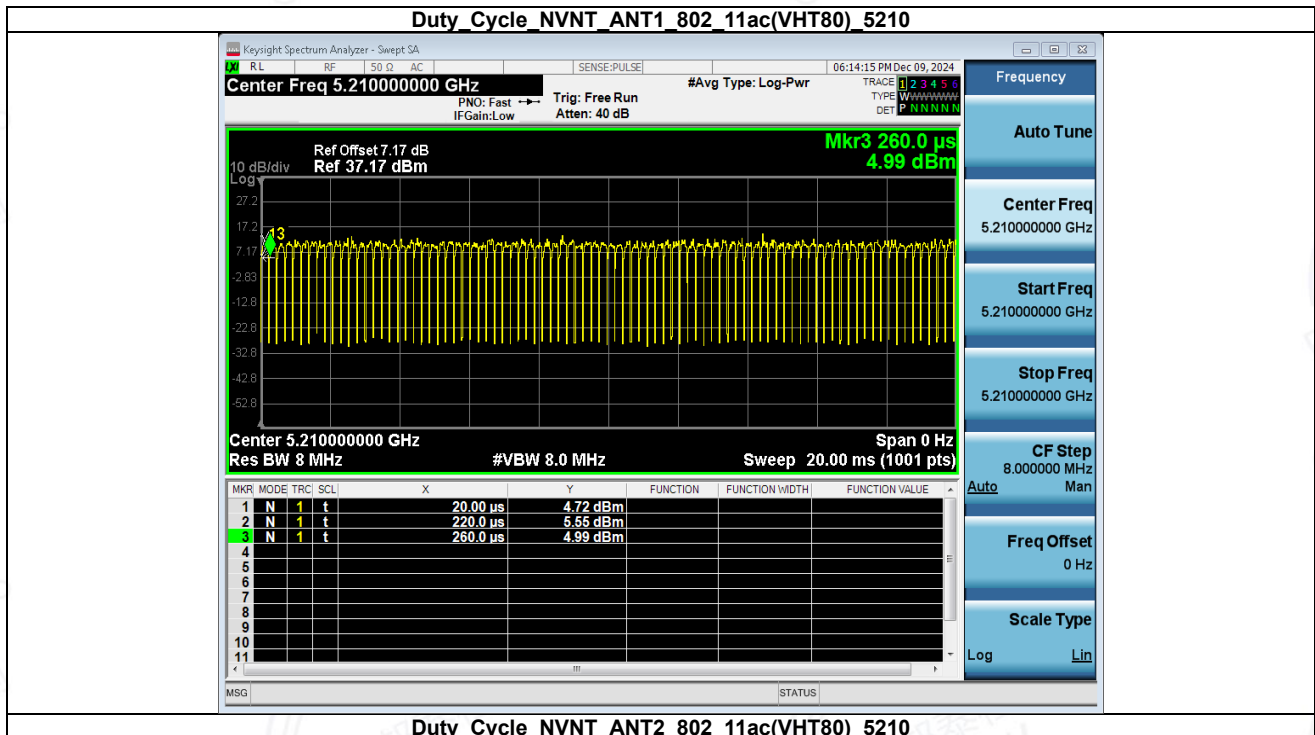
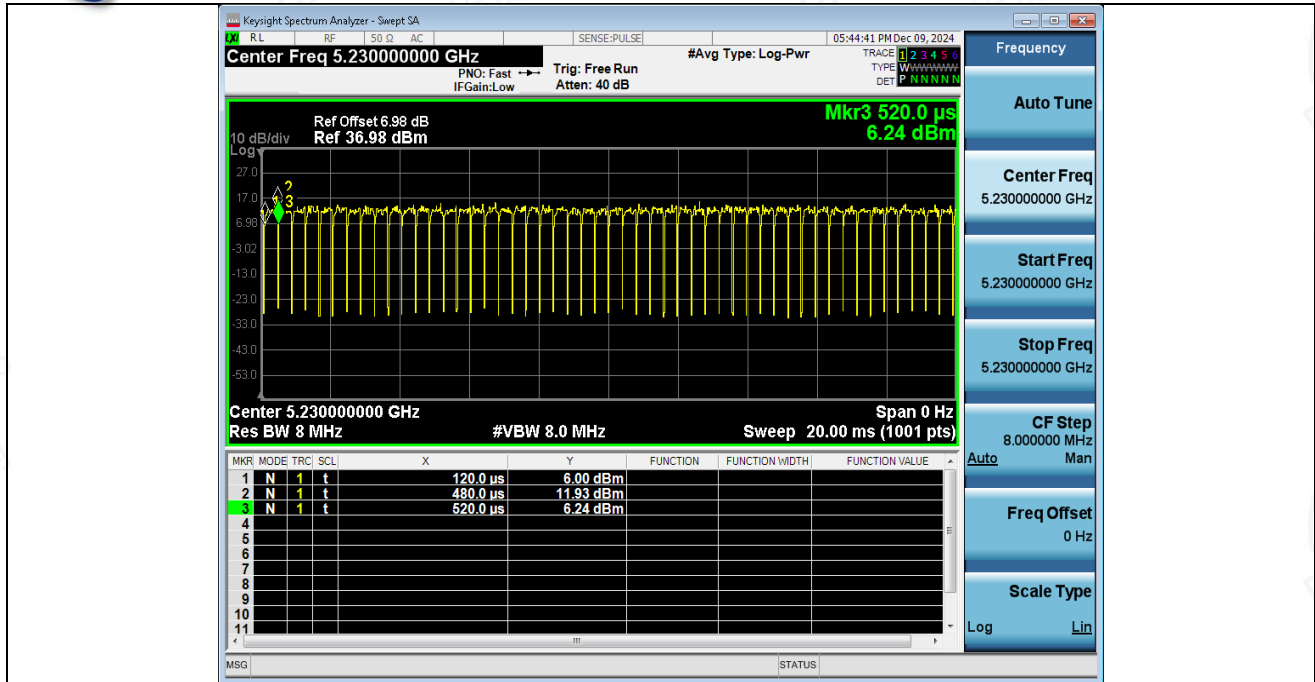


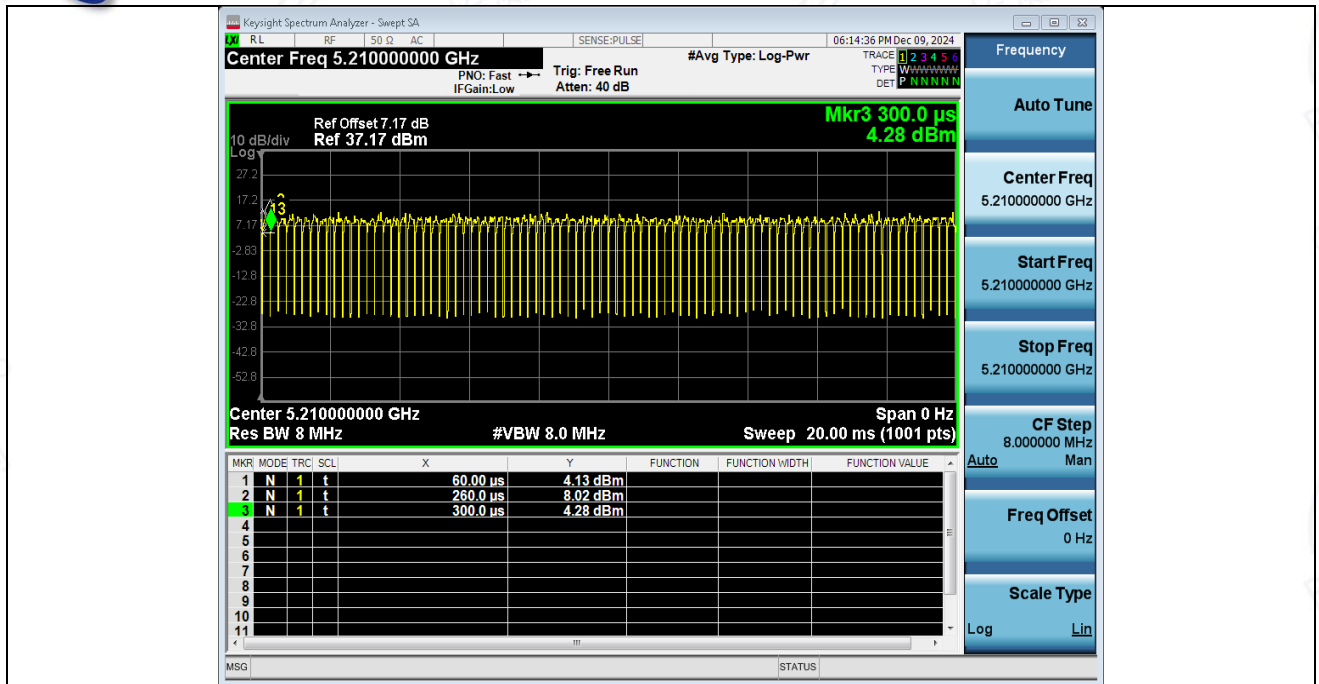












3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	13.16	0.12	13.28	24	Pass
NVNT	ANT2	802.11a	5180.00	12.64	0.12	12.76	24	Pass
NVNT	ANT1	802.11a	5200.00	13.69	0.12	13.81	24	Pass
NVNT	ANT2	802.11a	5200.00	12.98	0.18	13.16	24	Pass
NVNT	ANT1	802.11a	5240.00	13.70	0.12	13.82	24	Pass
NVNT	ANT2	802.11a	5240.00	12.71	0.12	12.83	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	10.64	0.13	10.77	24	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	10.06	0.13	10.19	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	11.03	0.13	11.16	24	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	10.32	0.13	10.45	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	11.05	0.20	11.25	24	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	10.10	0.13	10.23	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	10.48	0.37	10.85	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	9.95	0.25	10.20	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	11.12	0.37	11.49	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	10.28	0.25	10.53	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	11.00	0.25	11.25	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	9.89	0.25	10.14	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	11.02	0.40	11.42	24	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	10.32	0.26	10.58	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	11.40	0.40	11.80	24	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	10.44	0.26	10.70	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	10.84	0.46	11.30	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	10.23	0.46	10.69	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	11.11	0.46	11.57	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	10.14	0.46	10.60	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	10.87	0.79	11.66	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	10.02	0.79	10.81	24	Pass

