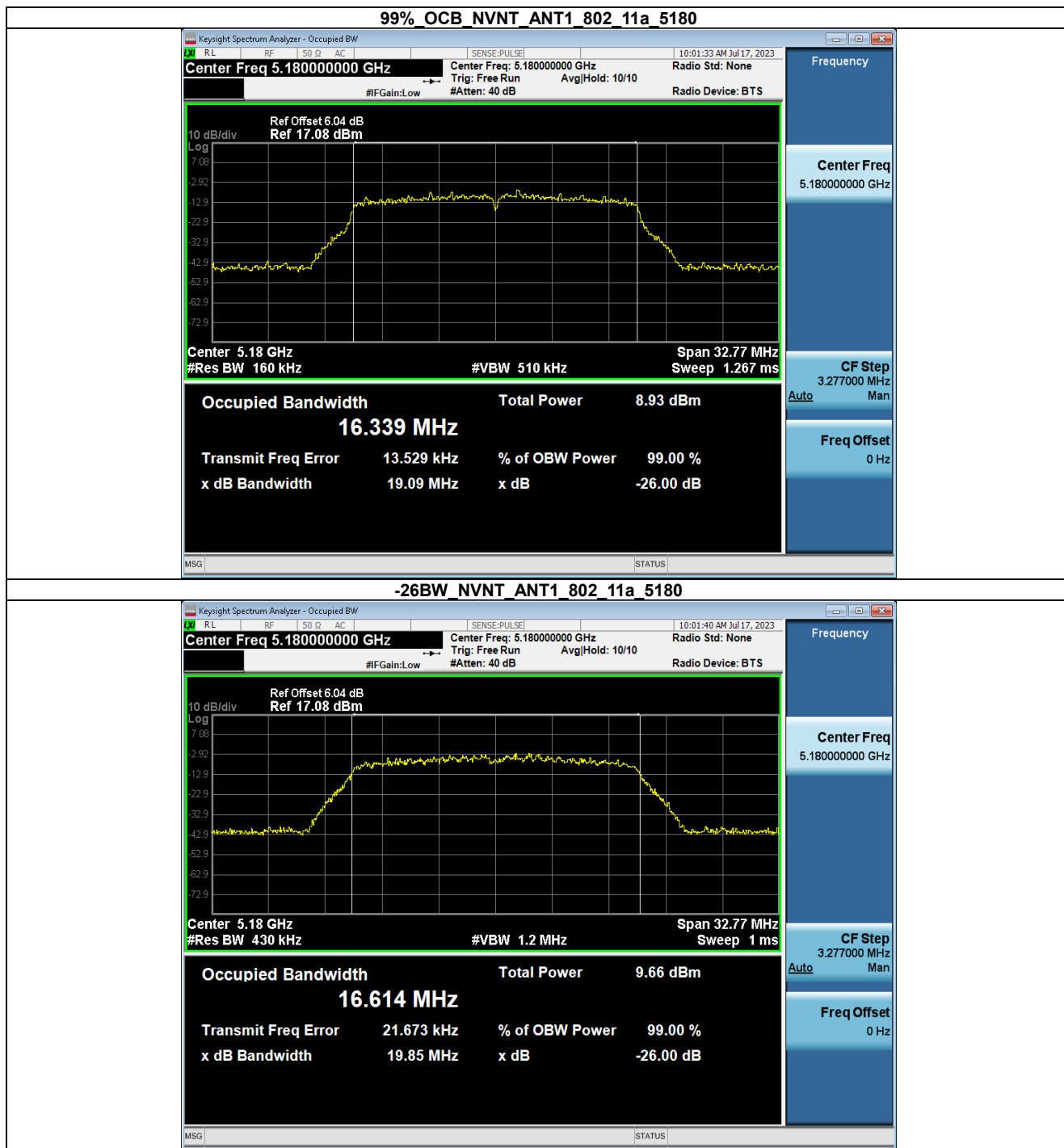


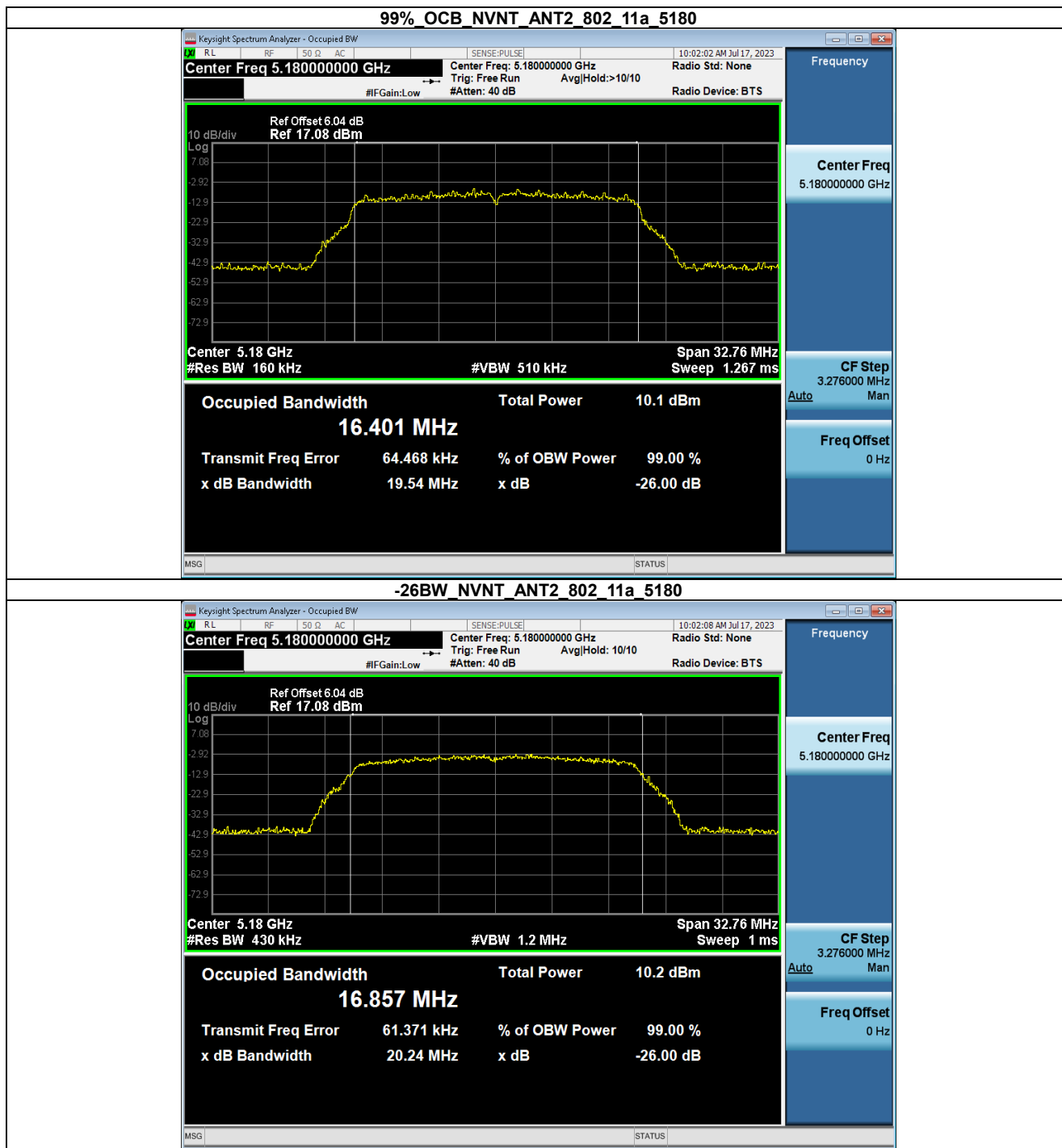
Appendix

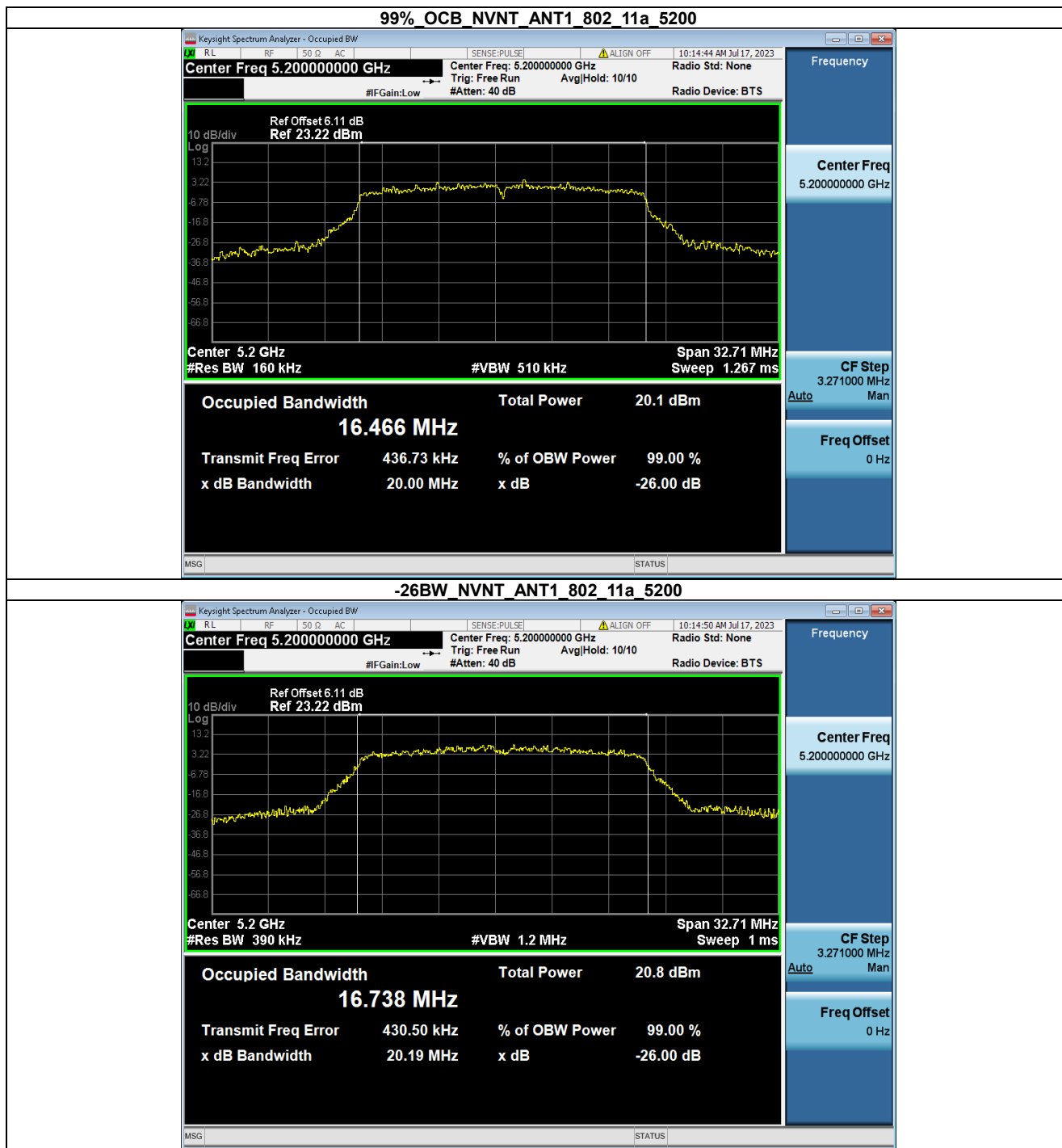
UNII-1 Wi-Fi 5G Test Data

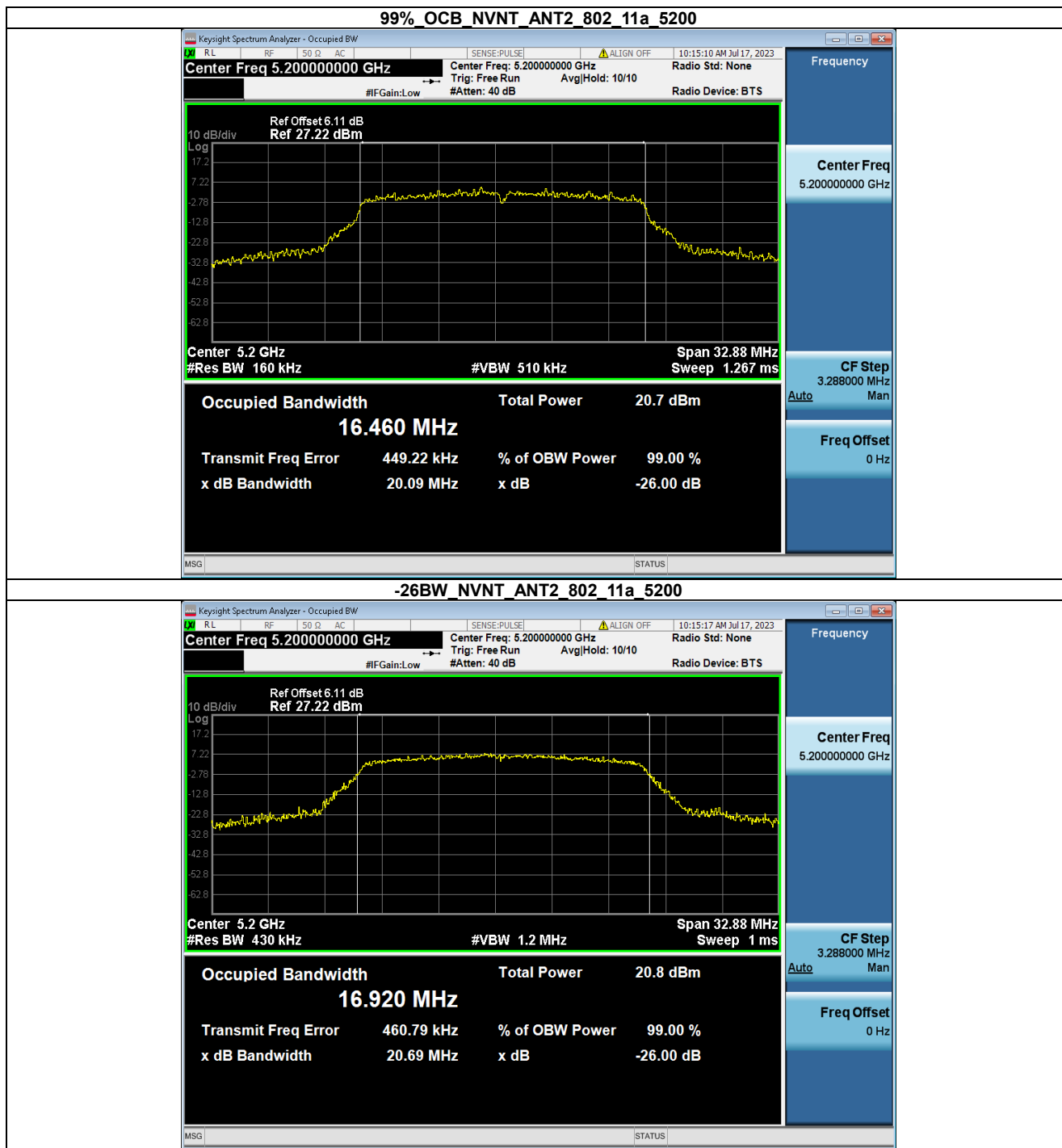
-26dB and 99% Emission Bandwidth

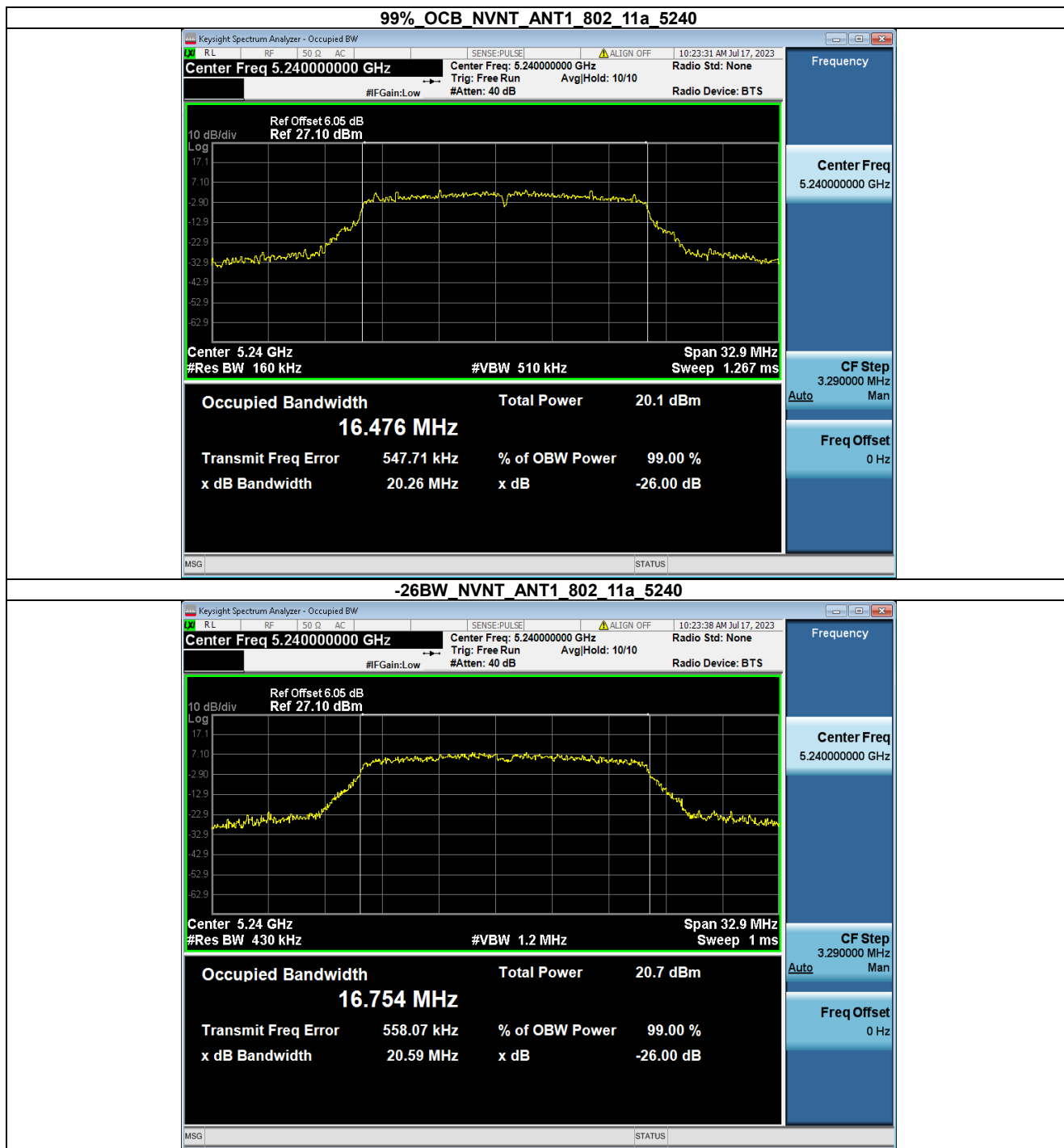
Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	19.85	16.34
NVNT	ANT2	802.11a	5180.00	20.24	16.40
NVNT	ANT1	802.11a	5200.00	20.19	16.47
NVNT	ANT2	802.11a	5200.00	20.69	16.46
NVNT	ANT1	802.11a	5240.00	20.59	16.48
NVNT	ANT2	802.11a	5240.00	20.68	16.45
NVNT	ANT1	802.11n(HT20)	5180.00	20.60	17.58
NVNT	ANT2	802.11n(HT20)	5180.00	20.51	17.53
NVNT	ANT1	802.11n(HT20)	5200.00	20.45	17.59
NVNT	ANT2	802.11n(HT20)	5200.00	20.61	17.58
NVNT	ANT1	802.11n(HT20)	5240.00	20.50	17.59
NVNT	ANT2	802.11n(HT20)	5240.00	20.60	17.60
NVNT	ANT1	802.11ac(VHT20)	5180.00	20.24	17.57
NVNT	ANT2	802.11ac(VHT20)	5180.00	20.62	17.56
NVNT	ANT1	802.11ac(VHT20)	5200.00	20.36	17.59
NVNT	ANT2	802.11ac(VHT20)	5200.00	20.62	17.54
NVNT	ANT1	802.11ac(VHT20)	5240.00	20.48	17.56
NVNT	ANT2	802.11ac(VHT20)	5240.00	20.77	17.56
NVNT	ANT1	802.11ax(HE20)	5180.00	20.29	17.58
NVNT	ANT2	802.11ax(HE20)	5180.00	20.49	17.54
NVNT	ANT1	802.11ax(HE20)	5200.00	20.19	17.60
NVNT	ANT2	802.11ax(HE20)	5200.00	20.52	17.56
NVNT	ANT1	802.11ax(HE20)	5240.00	20.29	17.58
NVNT	ANT2	802.11ax(HE20)	5240.00	20.57	17.54
NVNT	ANT1	802.11n(HT40)	5190.00	41.13	36.01
NVNT	ANT2	802.11n(HT40)	5190.00	40.97	35.97
NVNT	ANT1	802.11n(HT40)	5230.00	41.17	36.03
NVNT	ANT2	802.11n(HT40)	5230.00	41.39	36.05
NVNT	ANT1	802.11ac(VHT40)	5190.00	40.75	35.97
NVNT	ANT2	802.11ac(VHT40)	5190.00	41.15	35.97
NVNT	ANT1	802.11ac(VHT40)	5230.00	40.78	36.02
NVNT	ANT2	802.11ac(VHT40)	5230.00	41.18	36.04
NVNT	ANT1	802.11ax(HE40)	5190.00	41.11	35.97
NVNT	ANT2	802.11ax(HE40)	5190.00	41.43	35.97
NVNT	ANT1	802.11ax(HE40)	5230.00	40.73	35.98
NVNT	ANT2	802.11ax(HE40)	5230.00	41.49	36.00
NVNT	ANT1	802.11ac(VHT80)	5210.00	81.36	75.12
NVNT	ANT2	802.11ac(VHT80)	5210.00	81.42	75.31
NVNT	ANT1	802.11ax(HE80)	5210.00	81.64	75.19
NVNT	ANT2	802.11ax(HE80)	5210.00	81.50	75.31

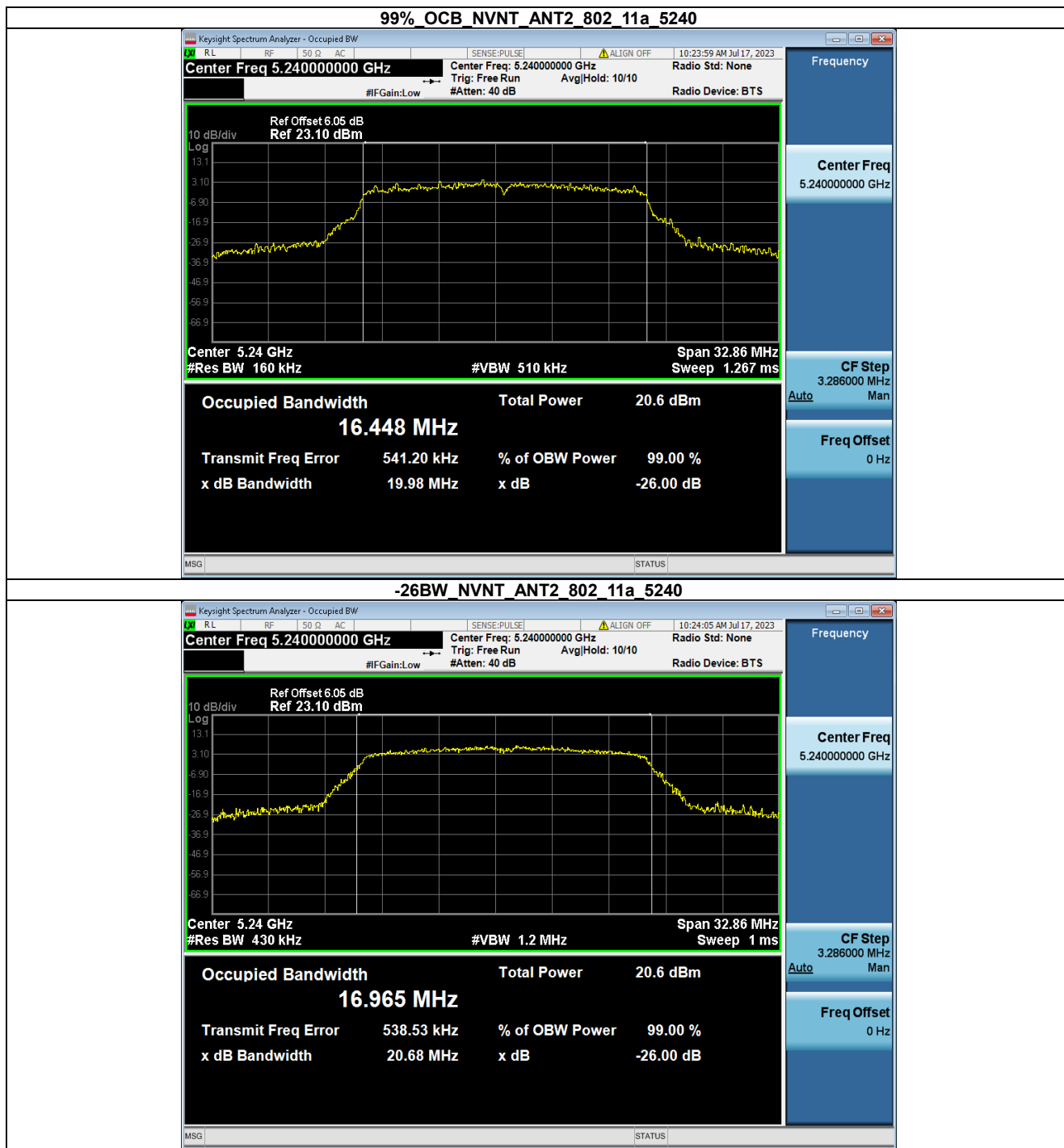


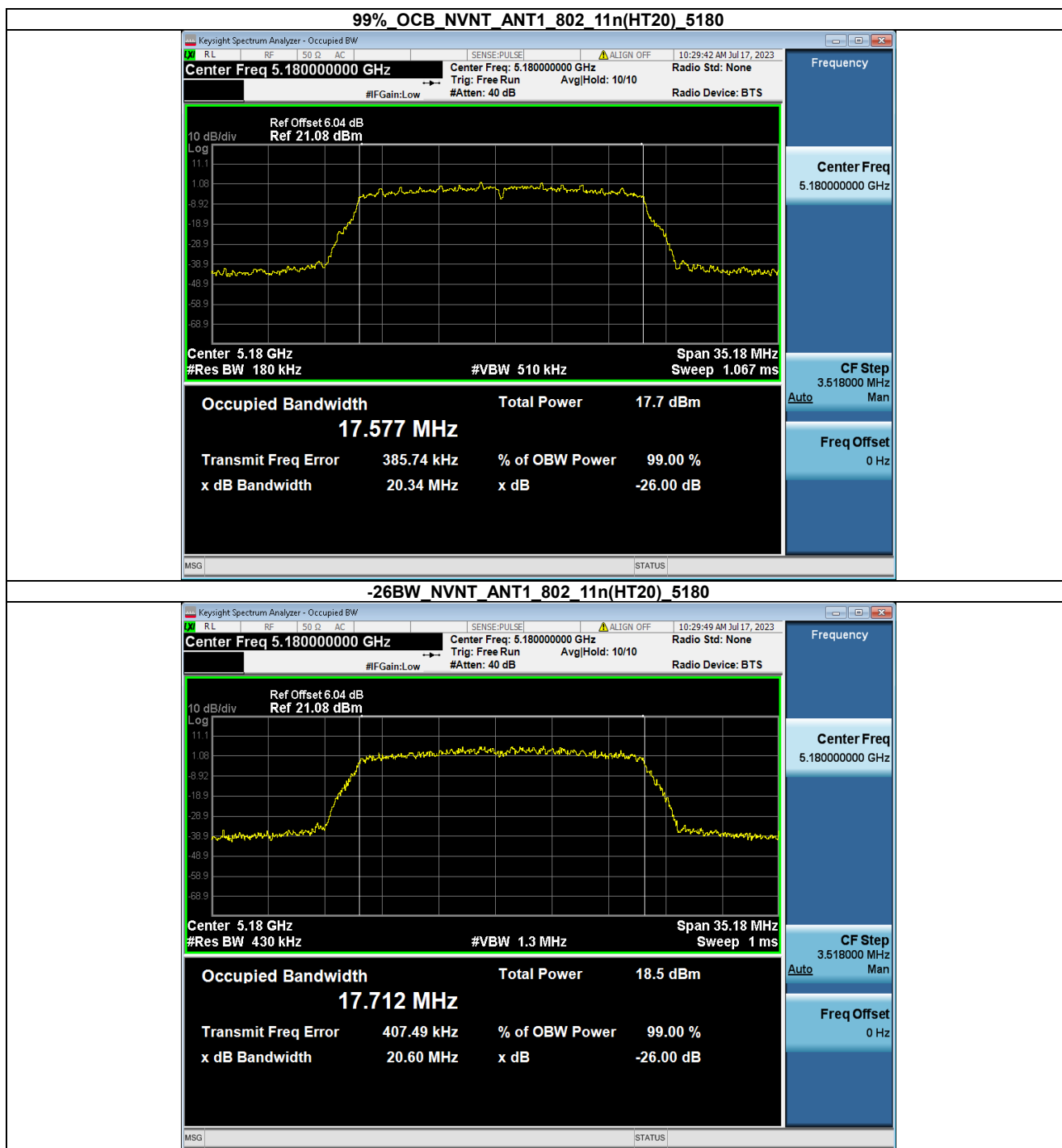


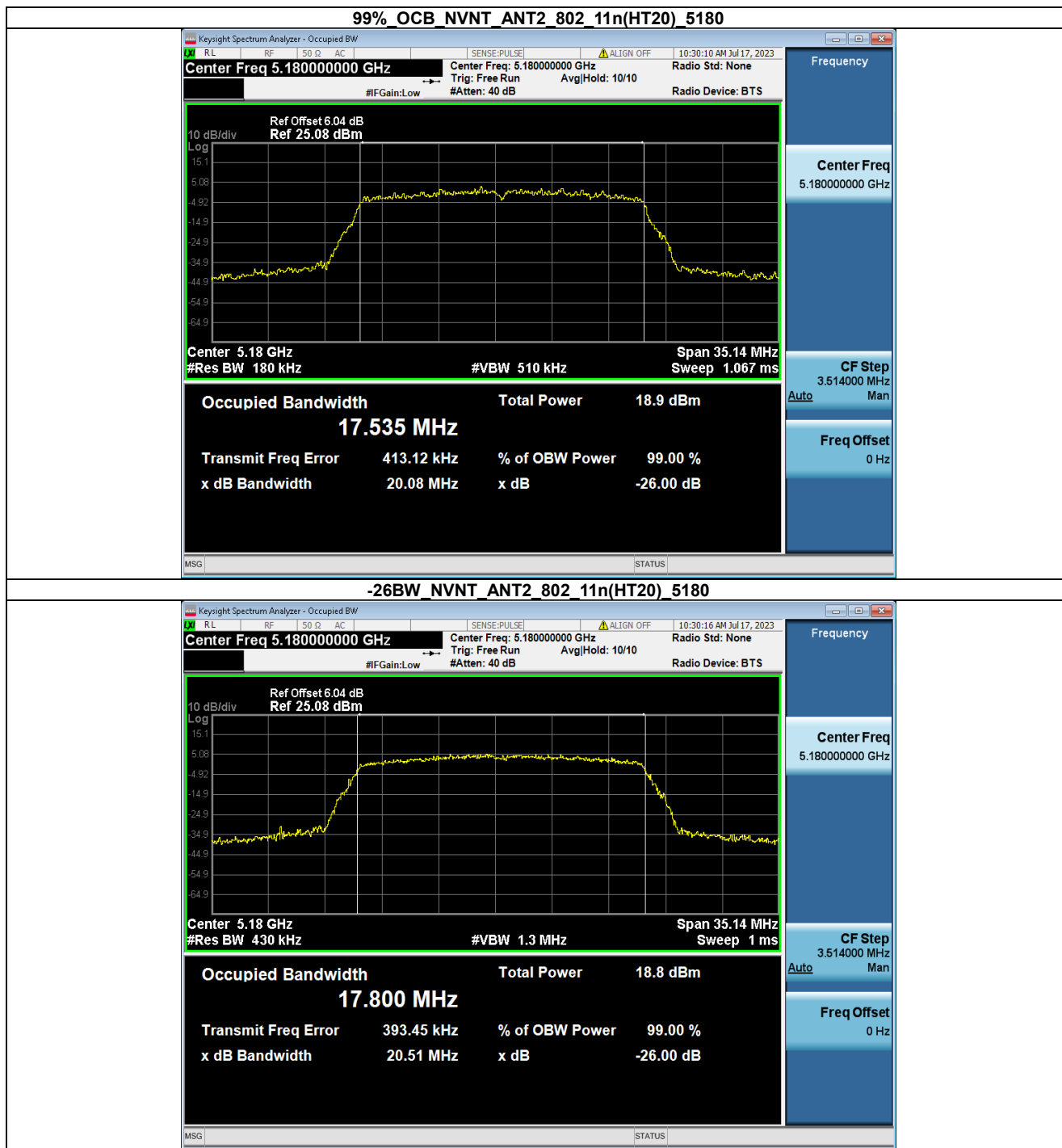


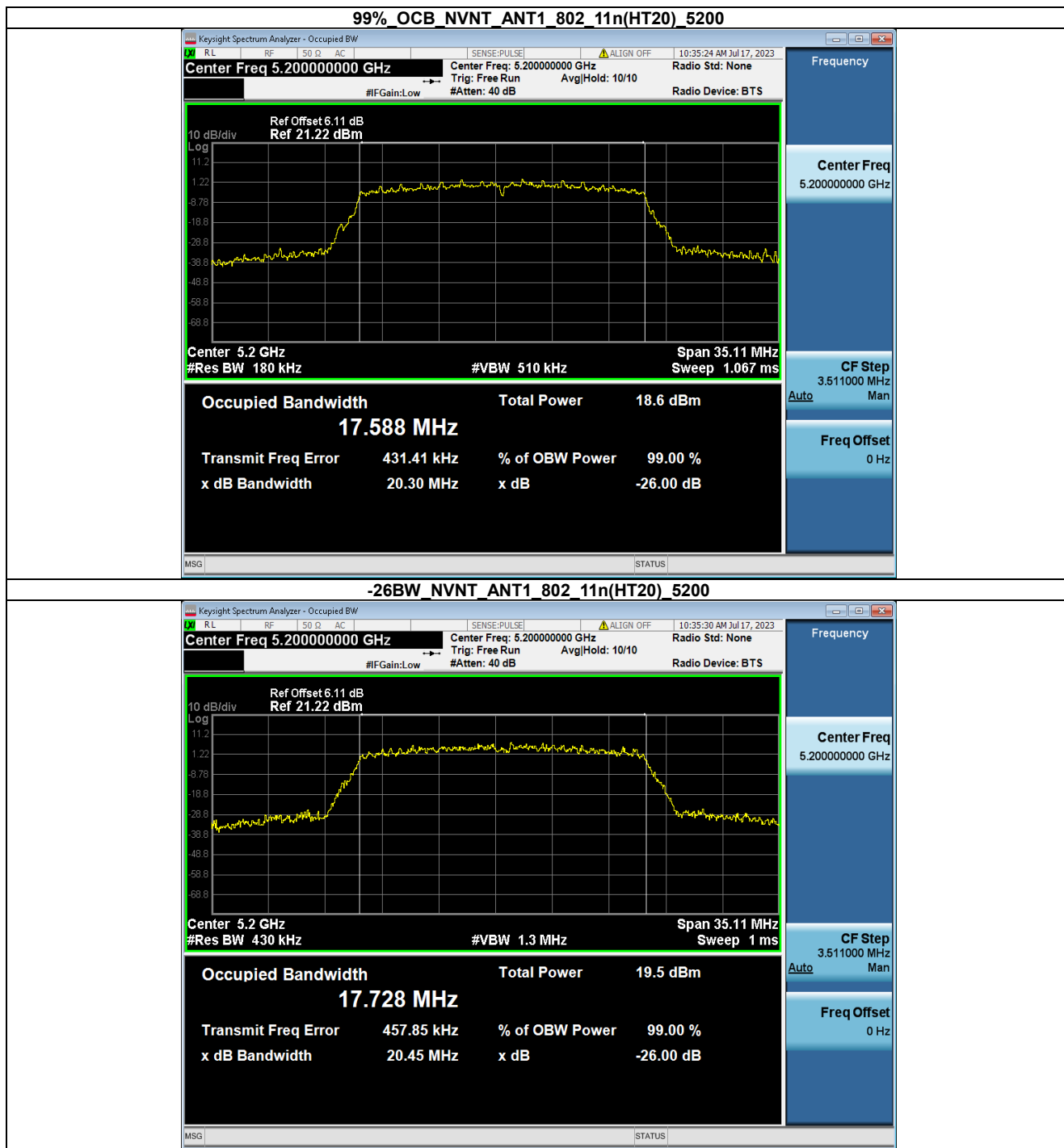


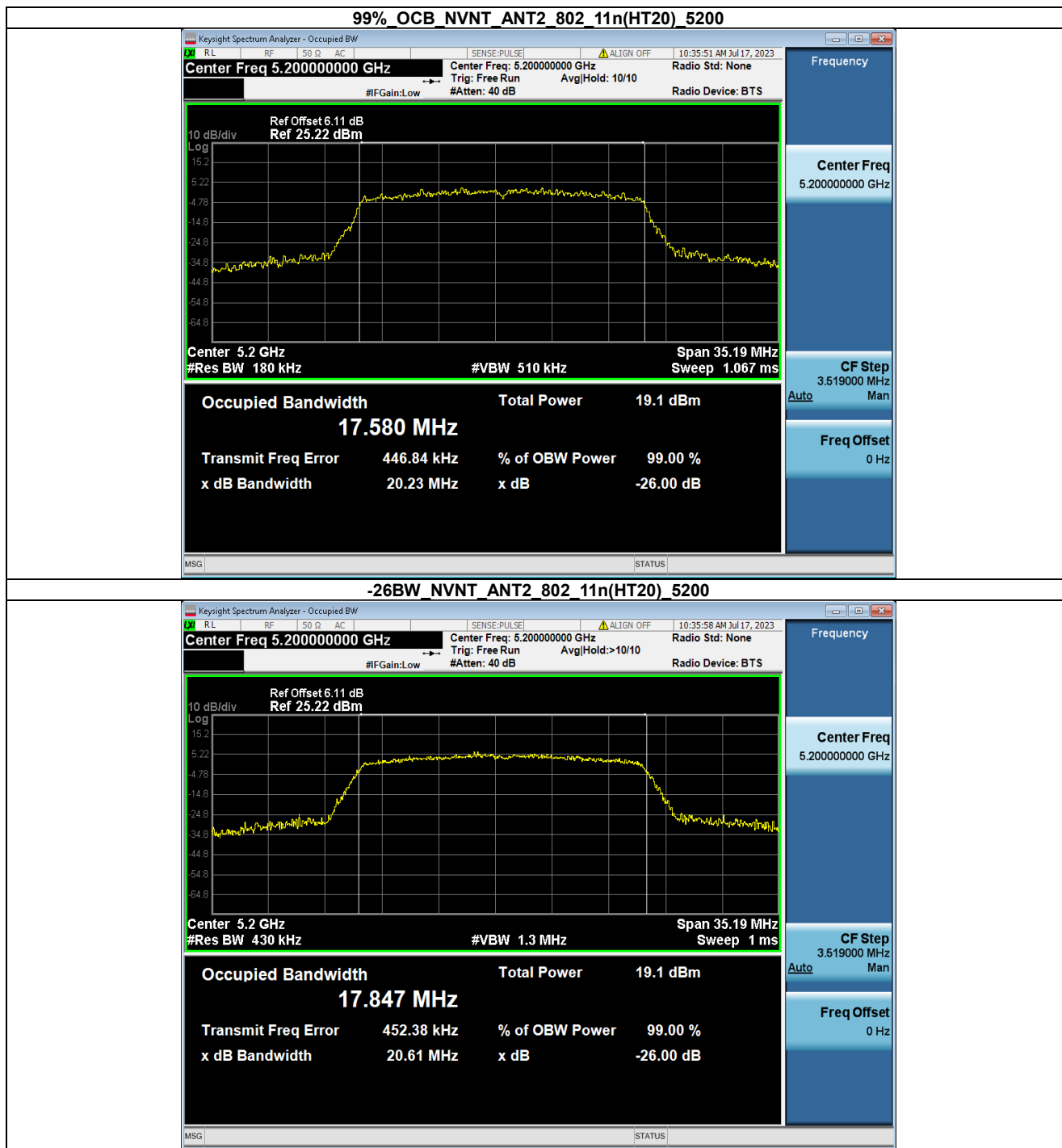


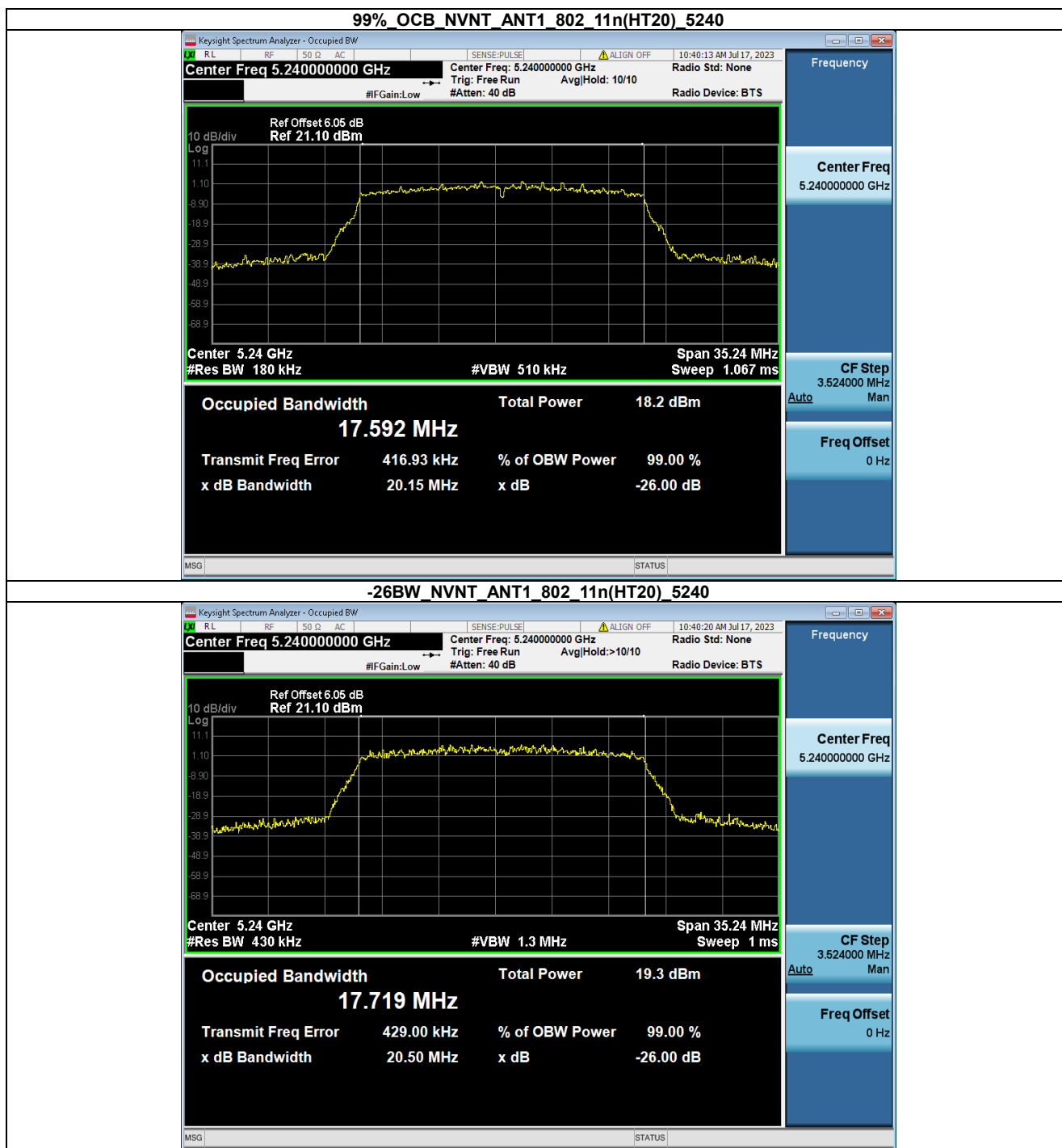


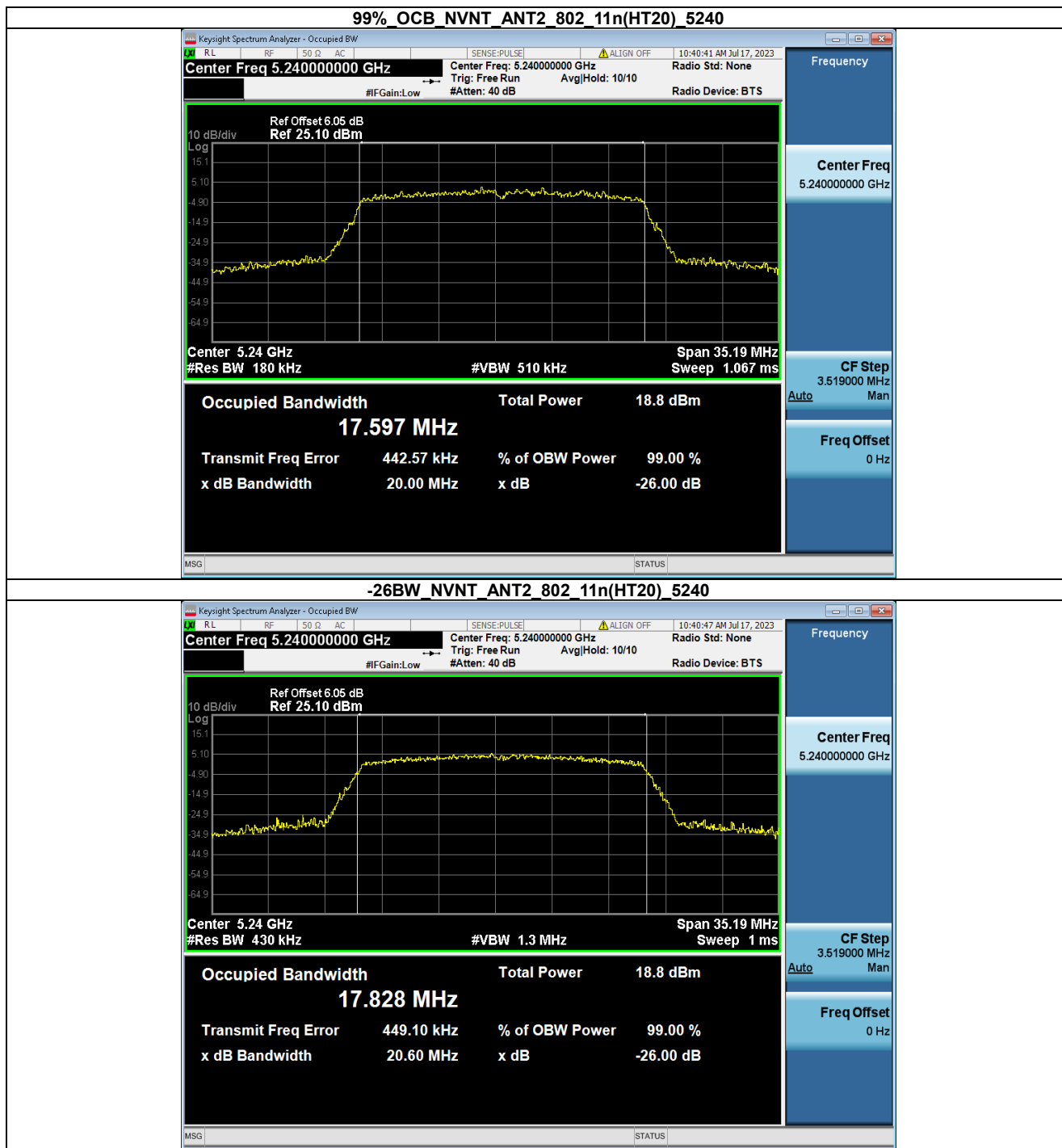


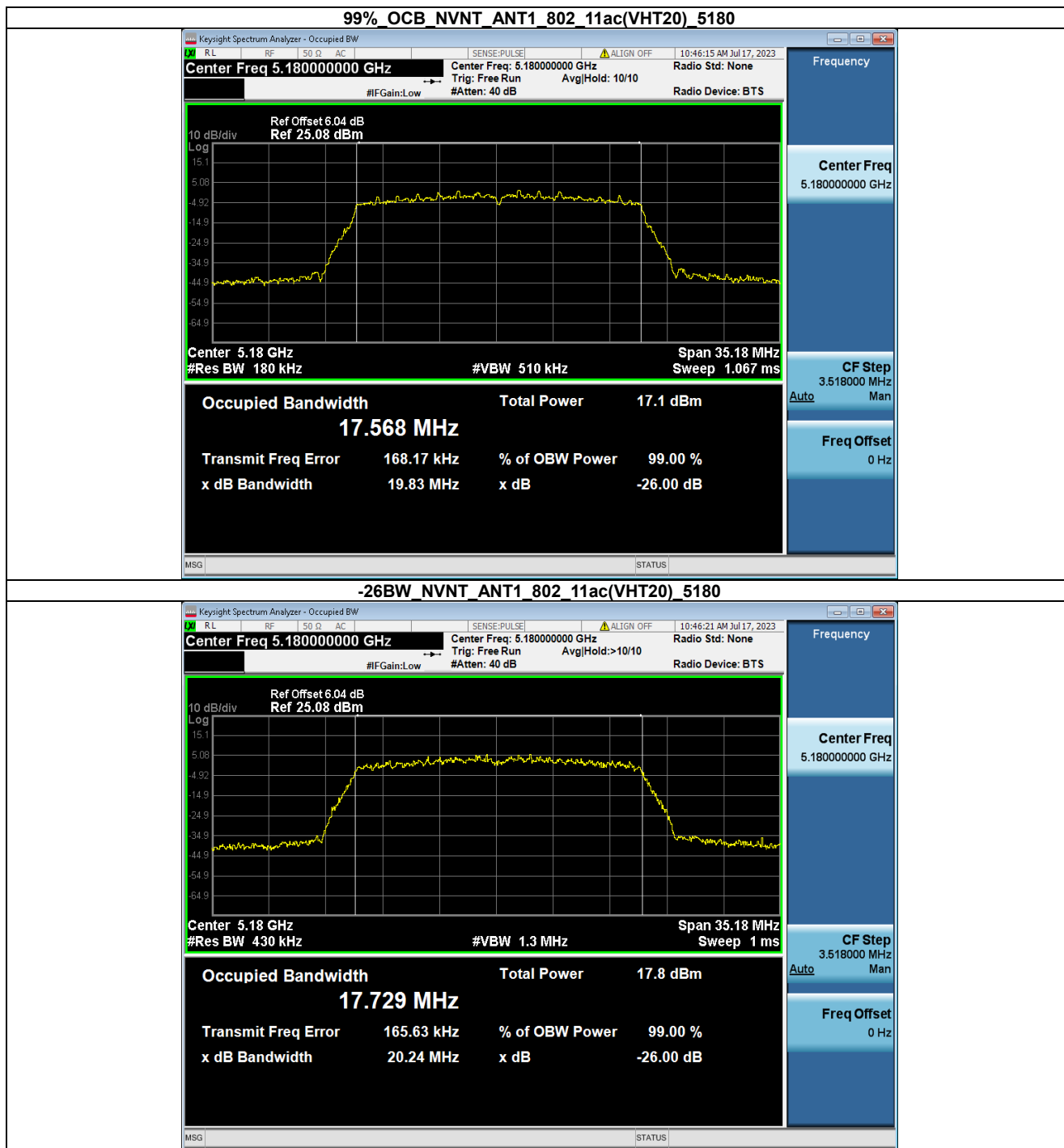


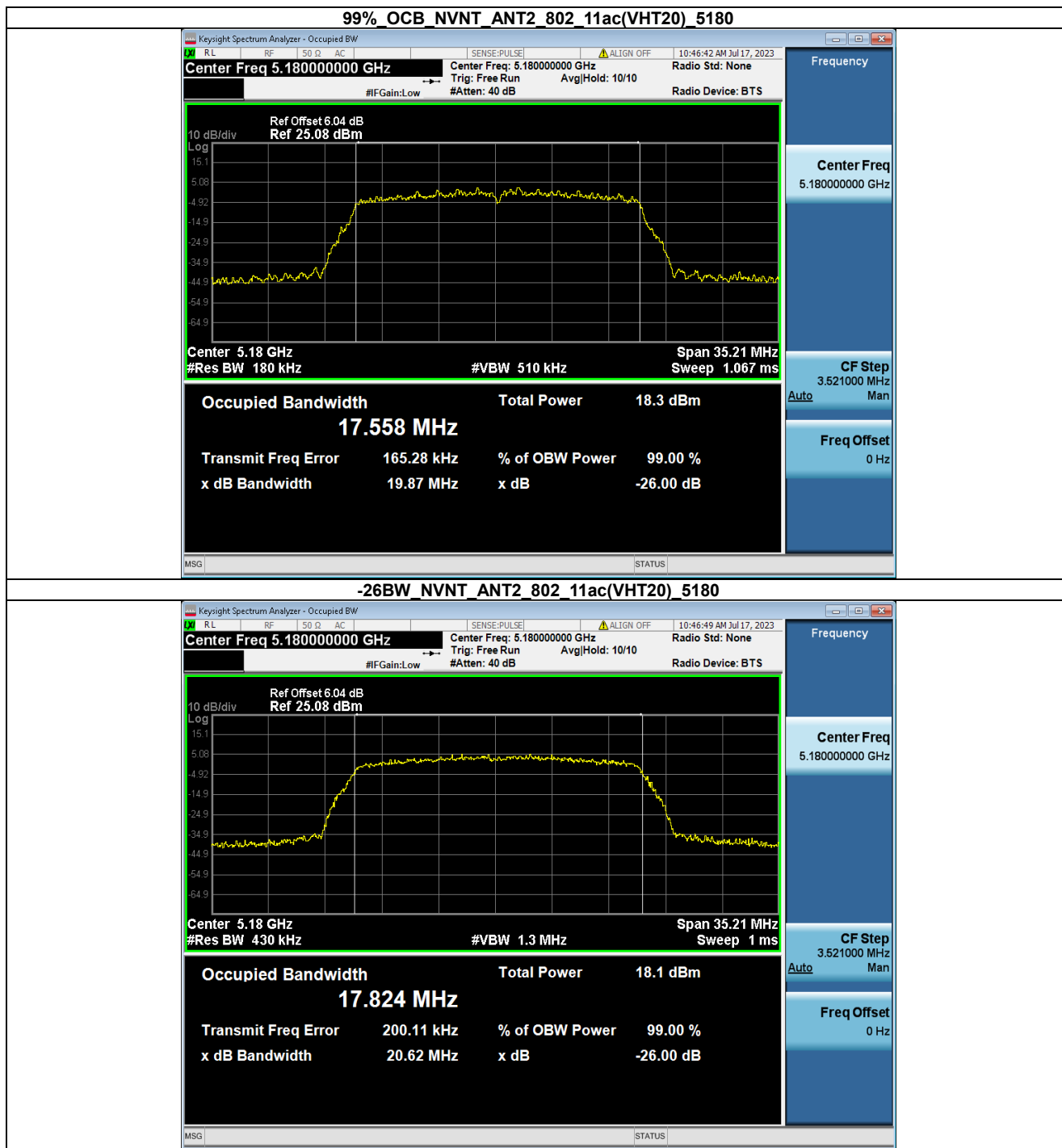


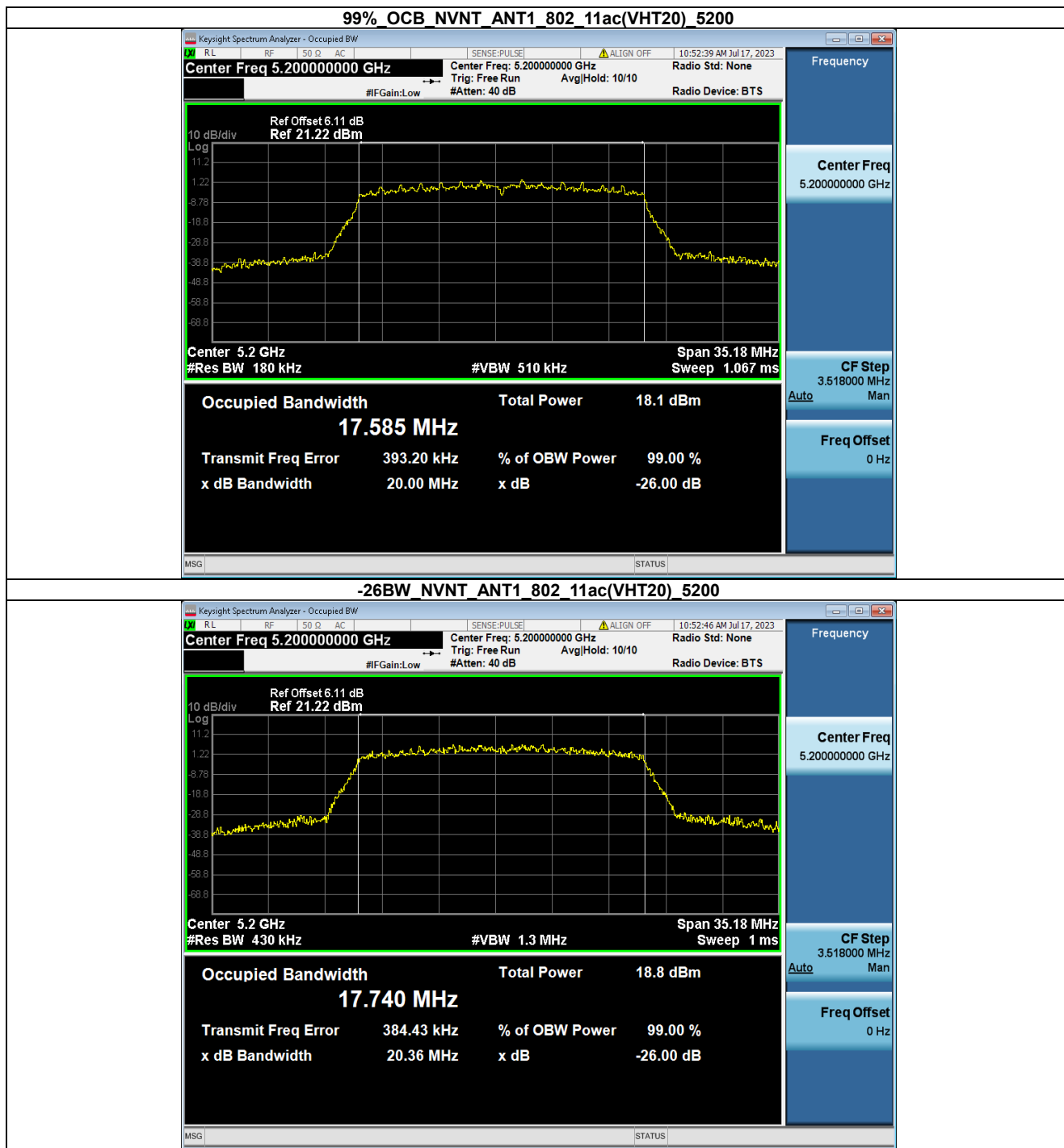


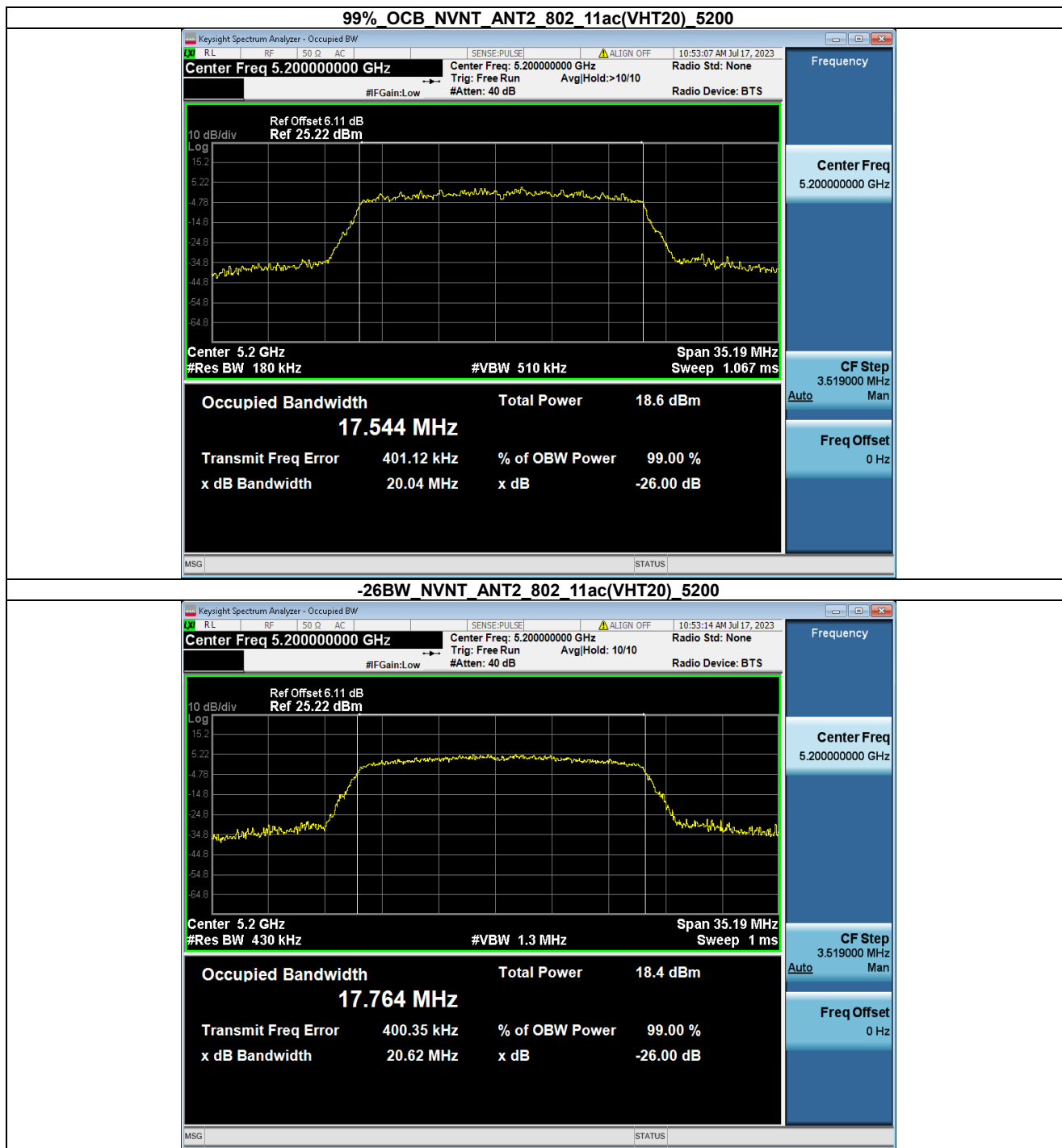


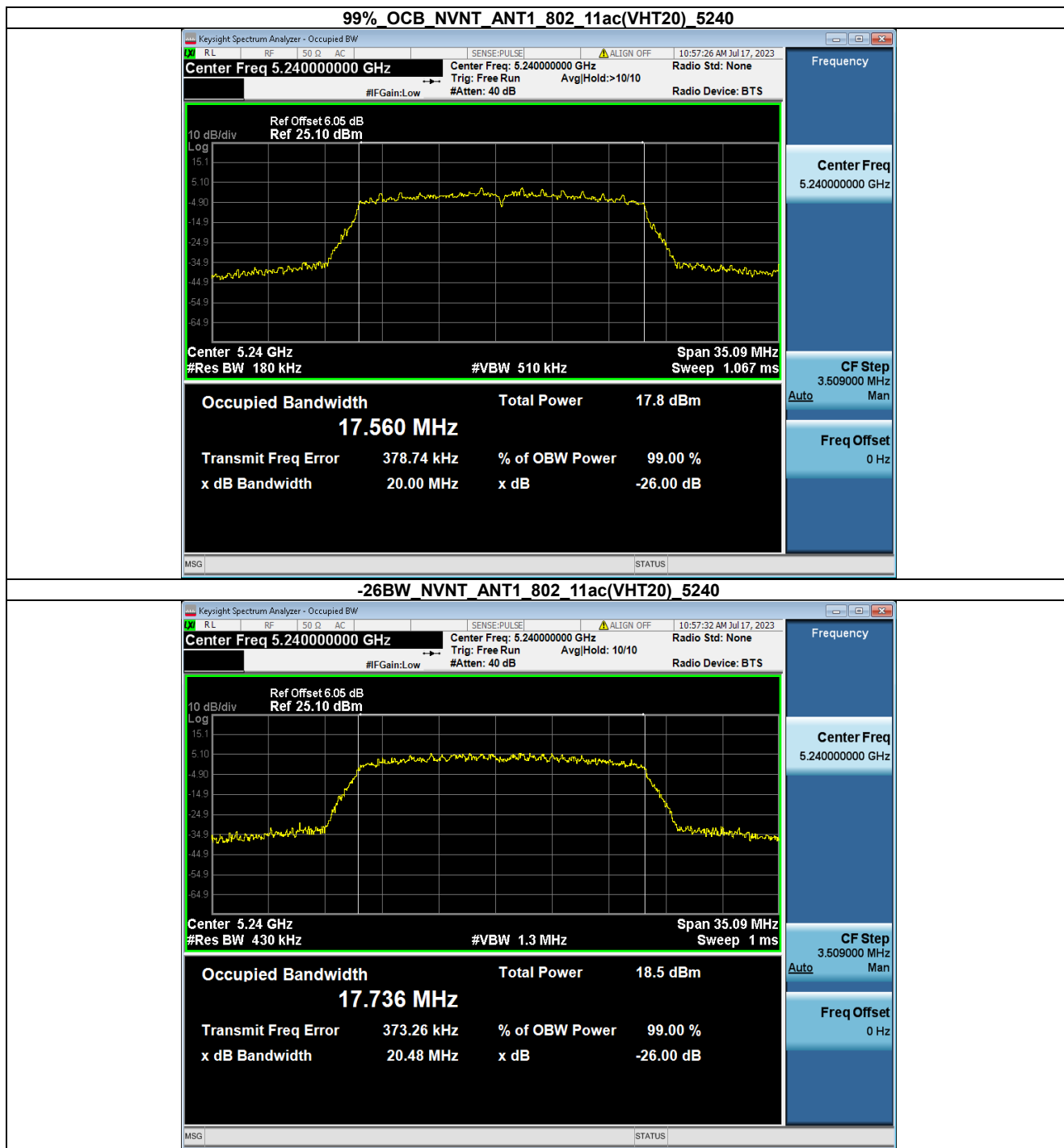


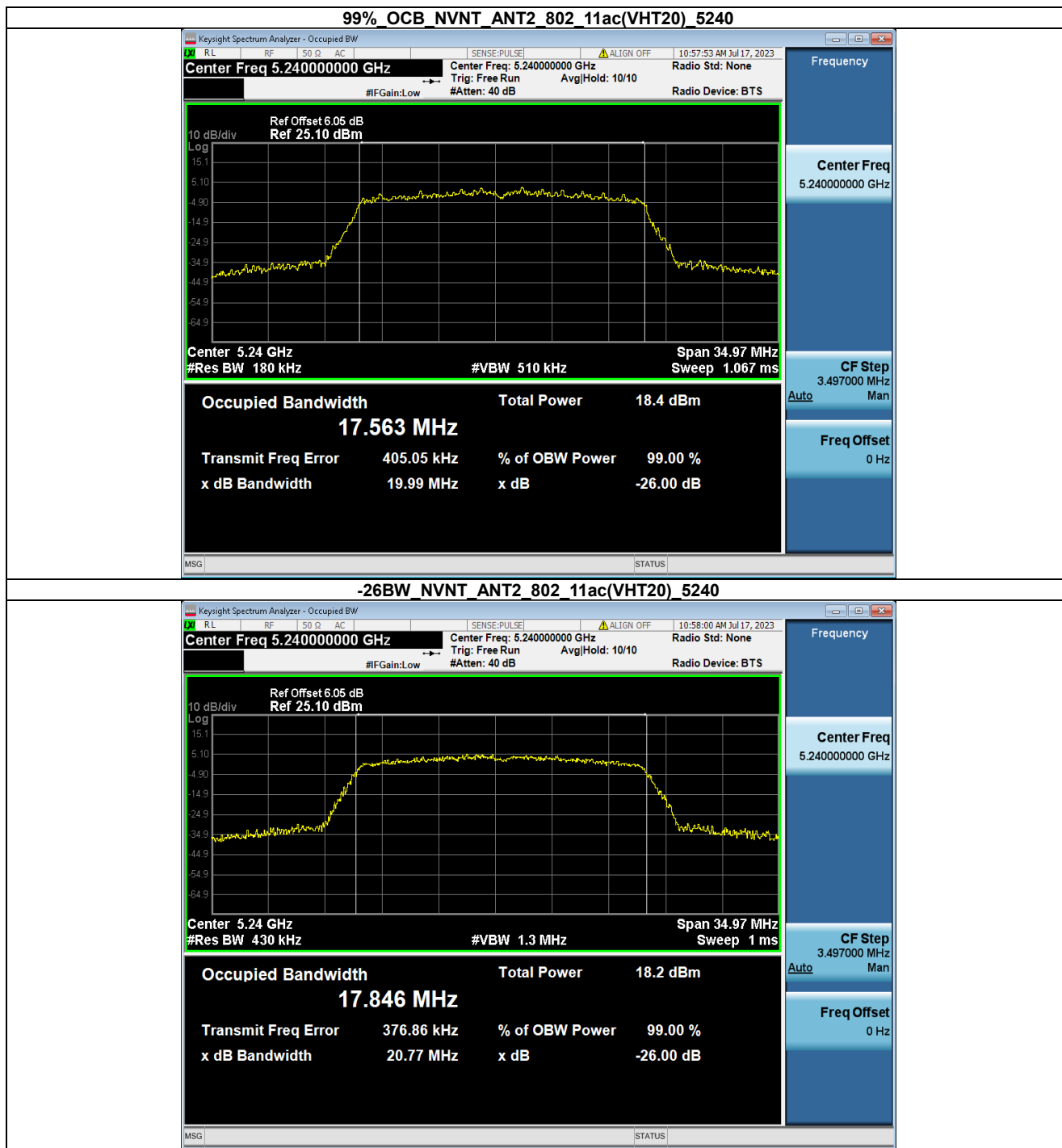


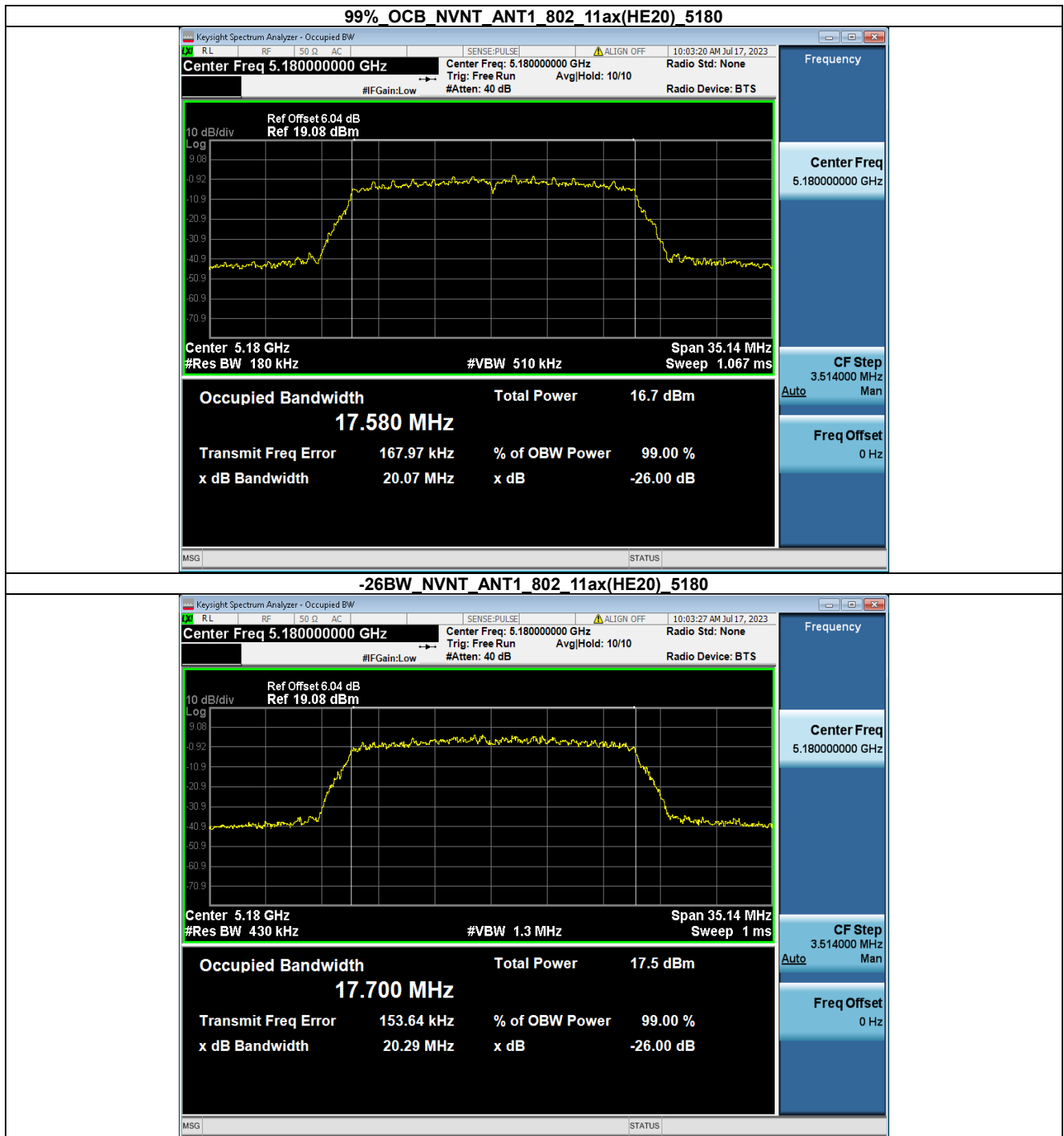


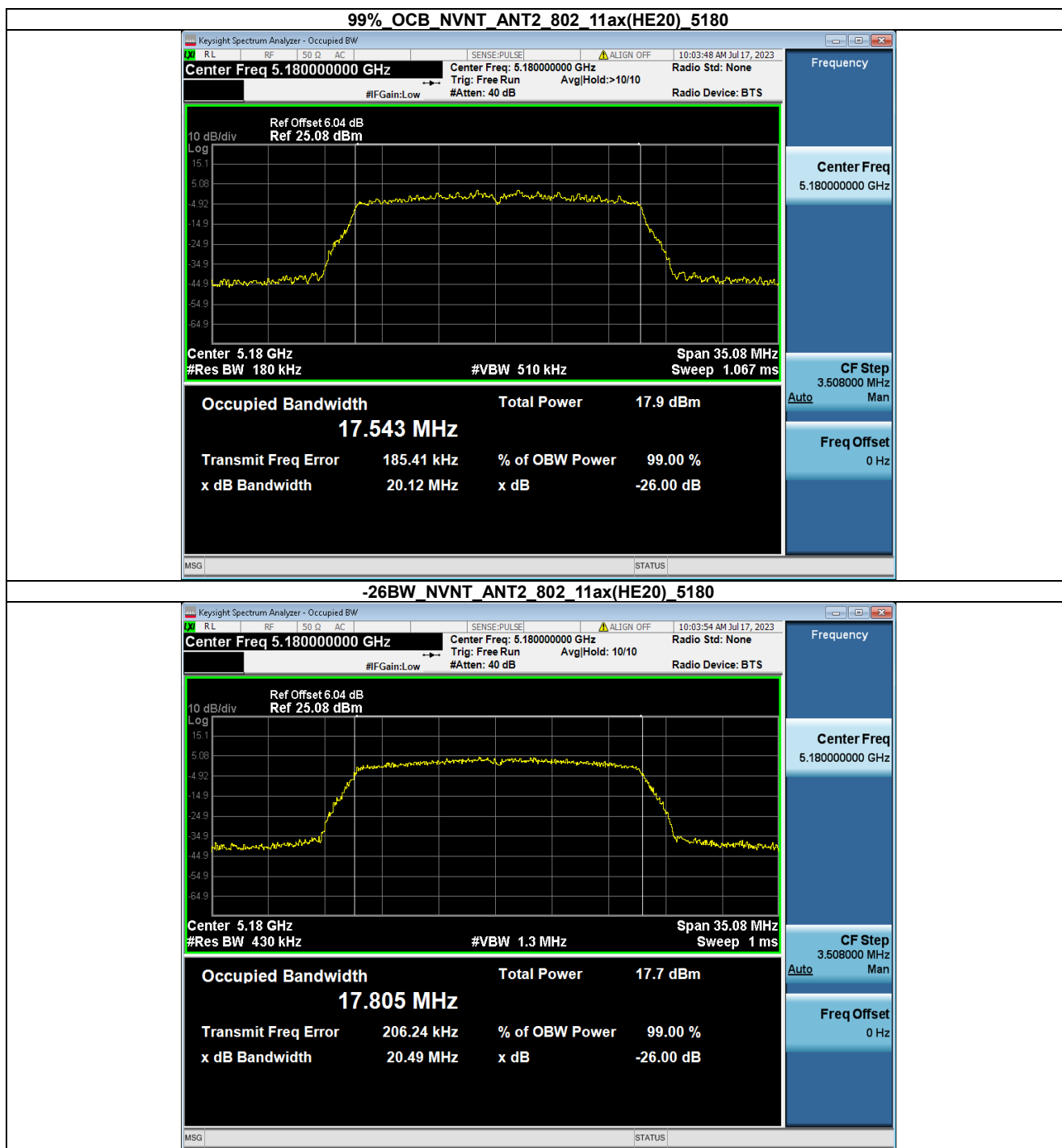


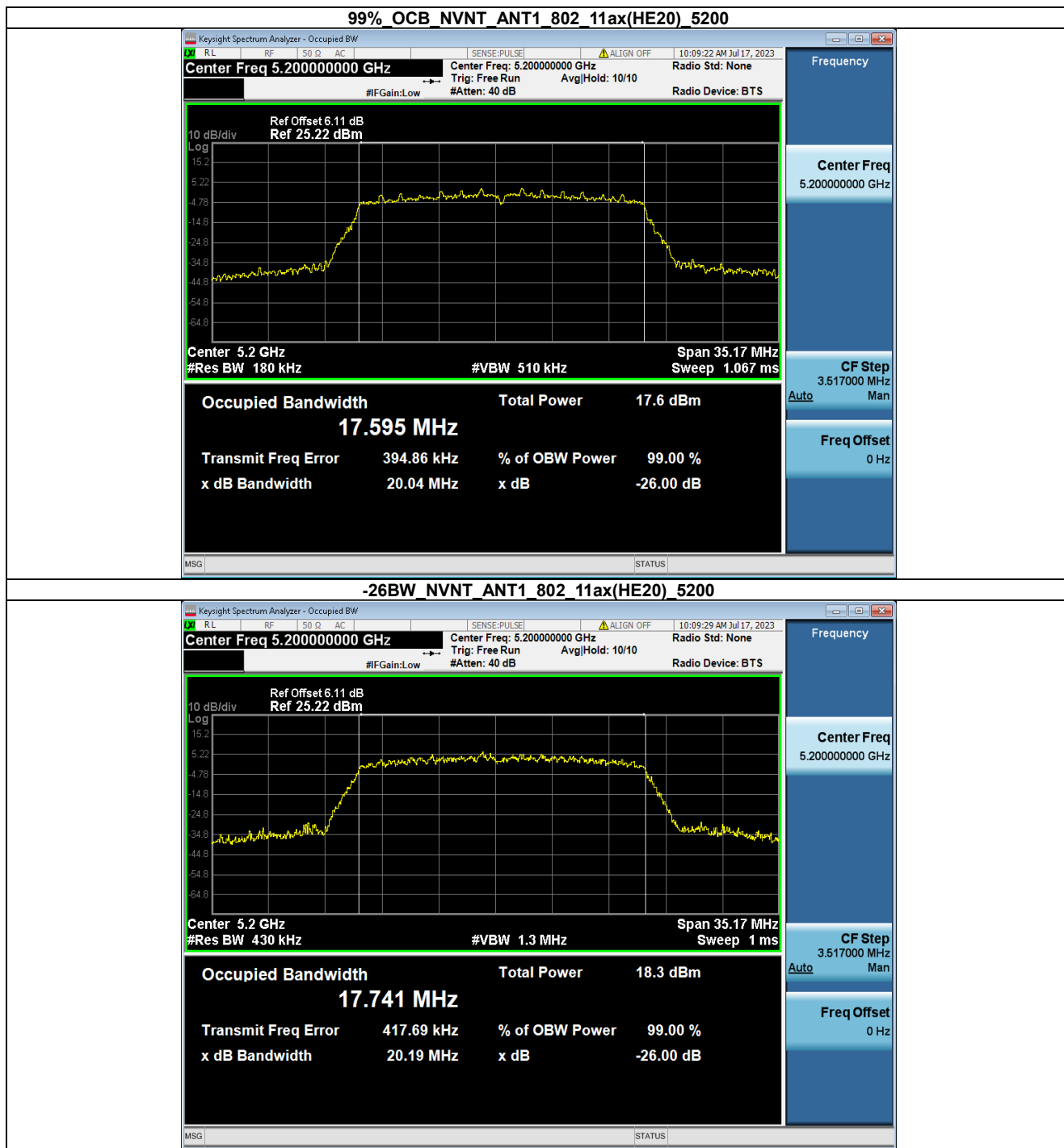


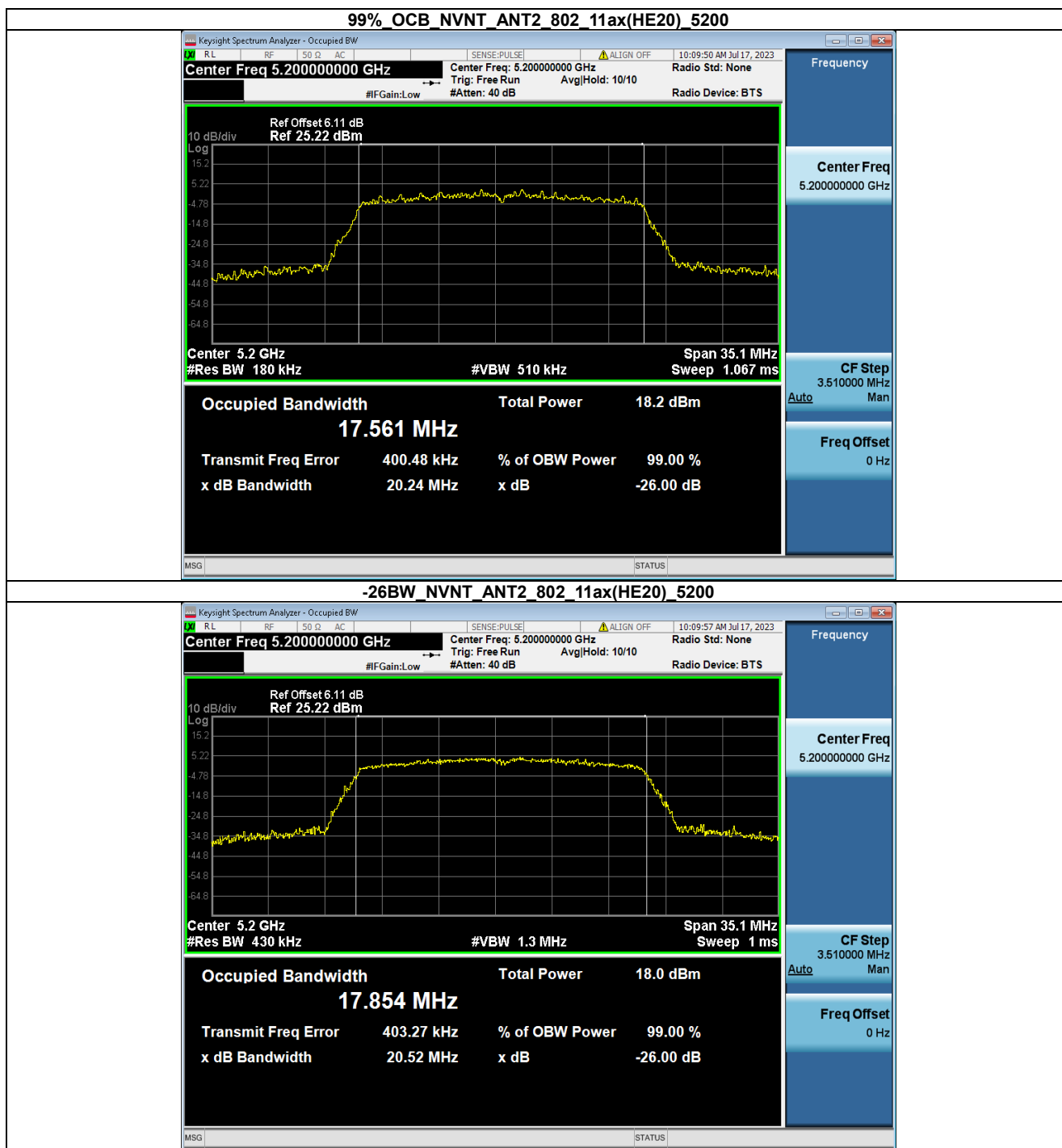


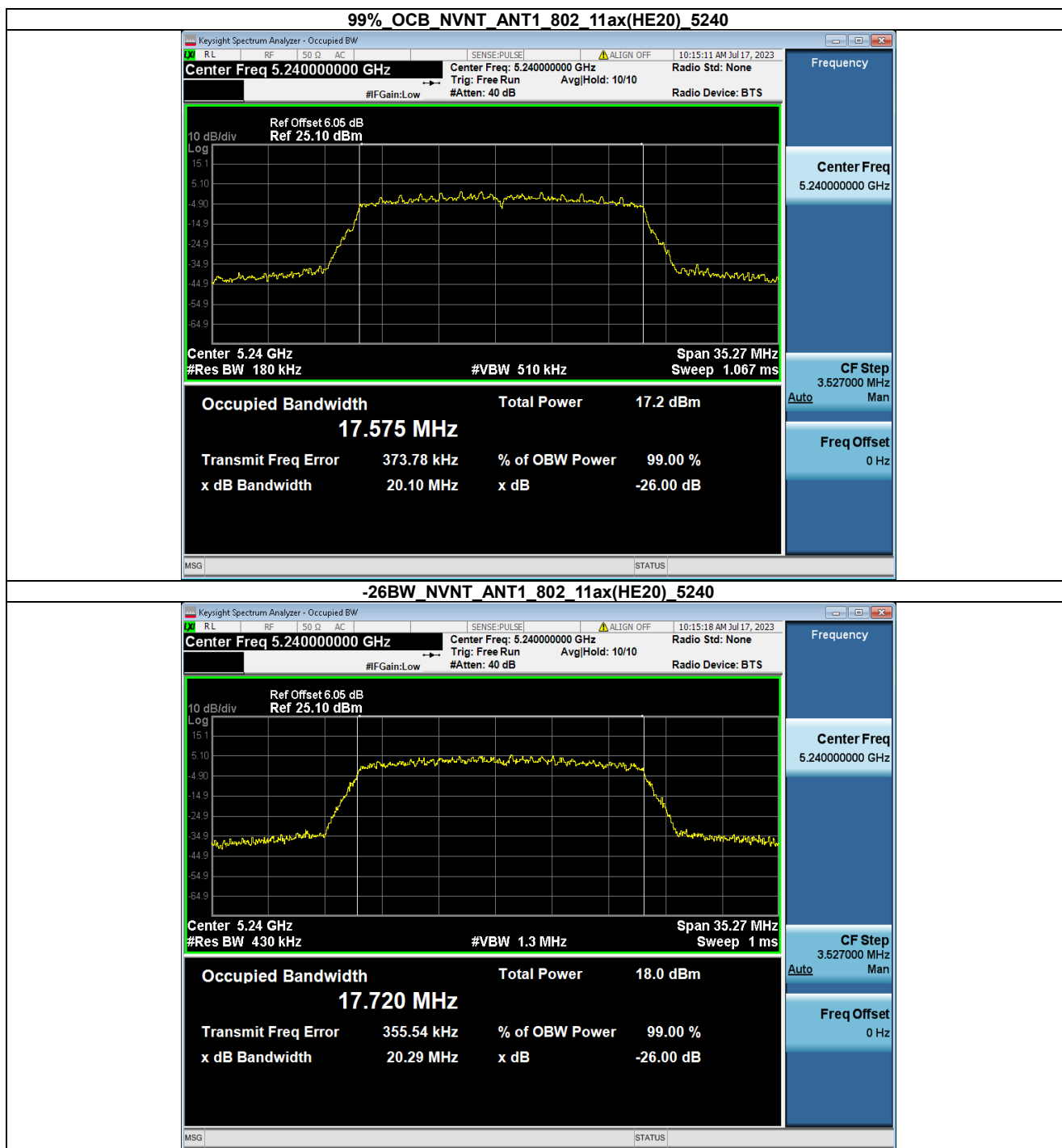


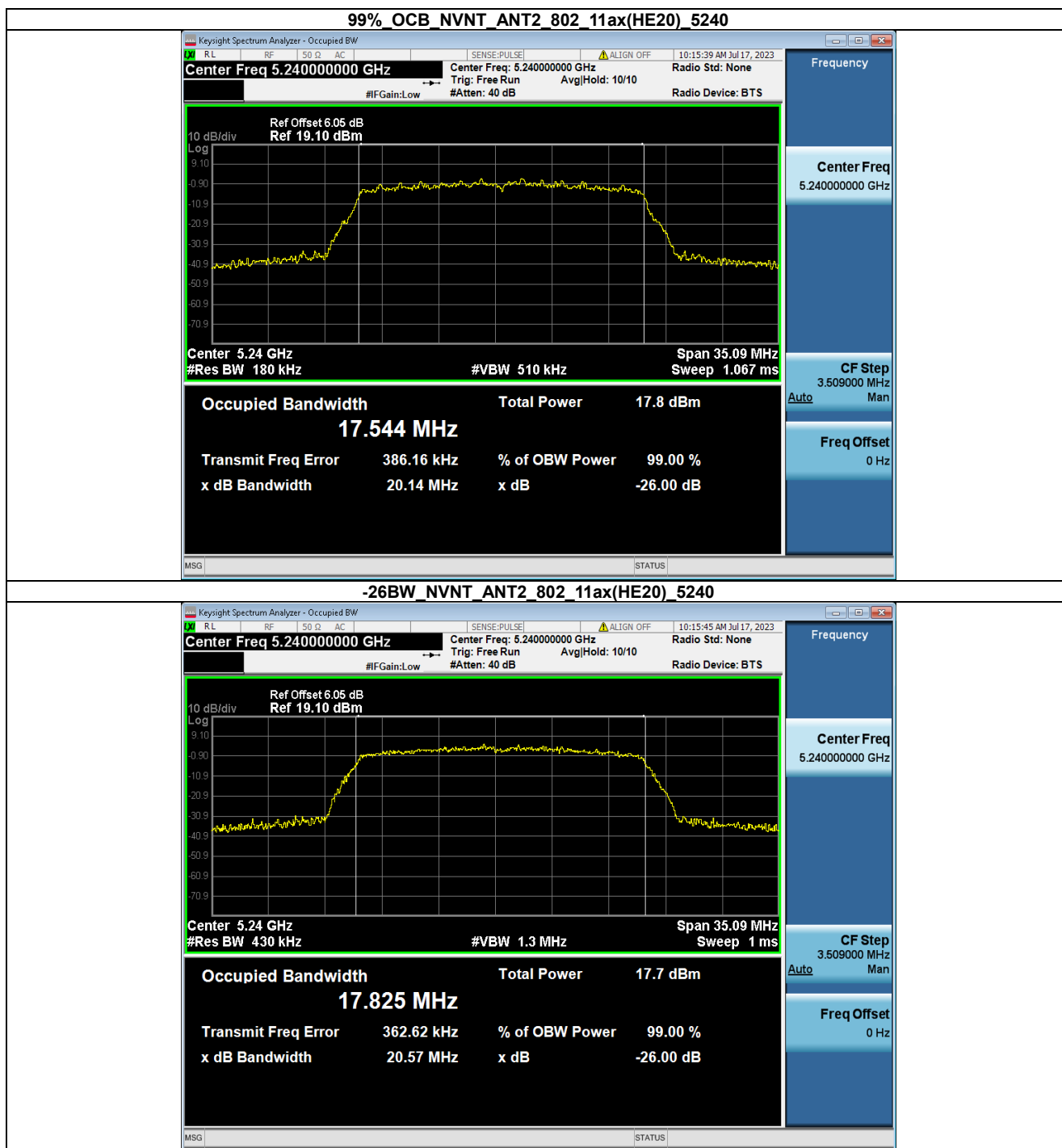


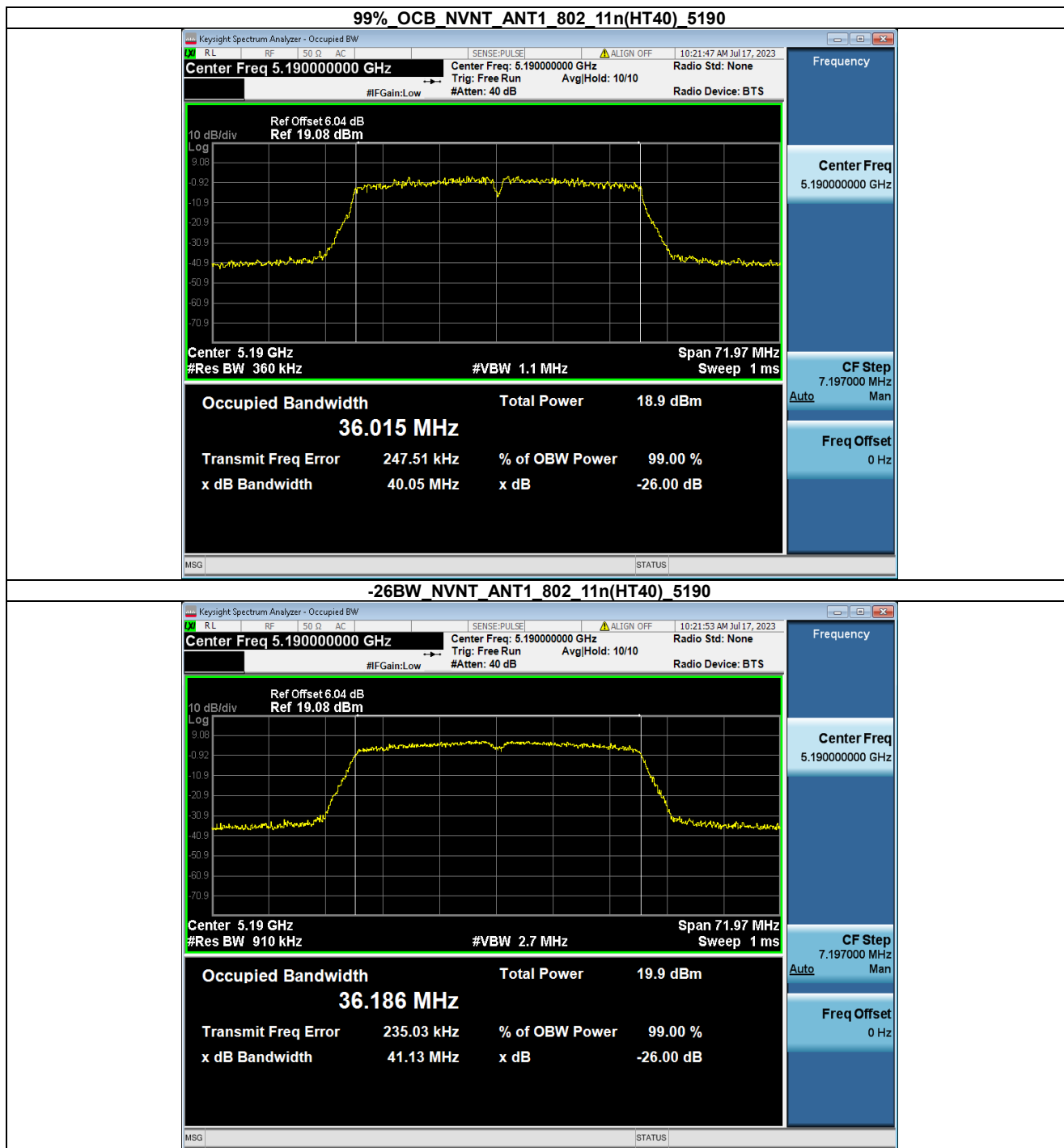


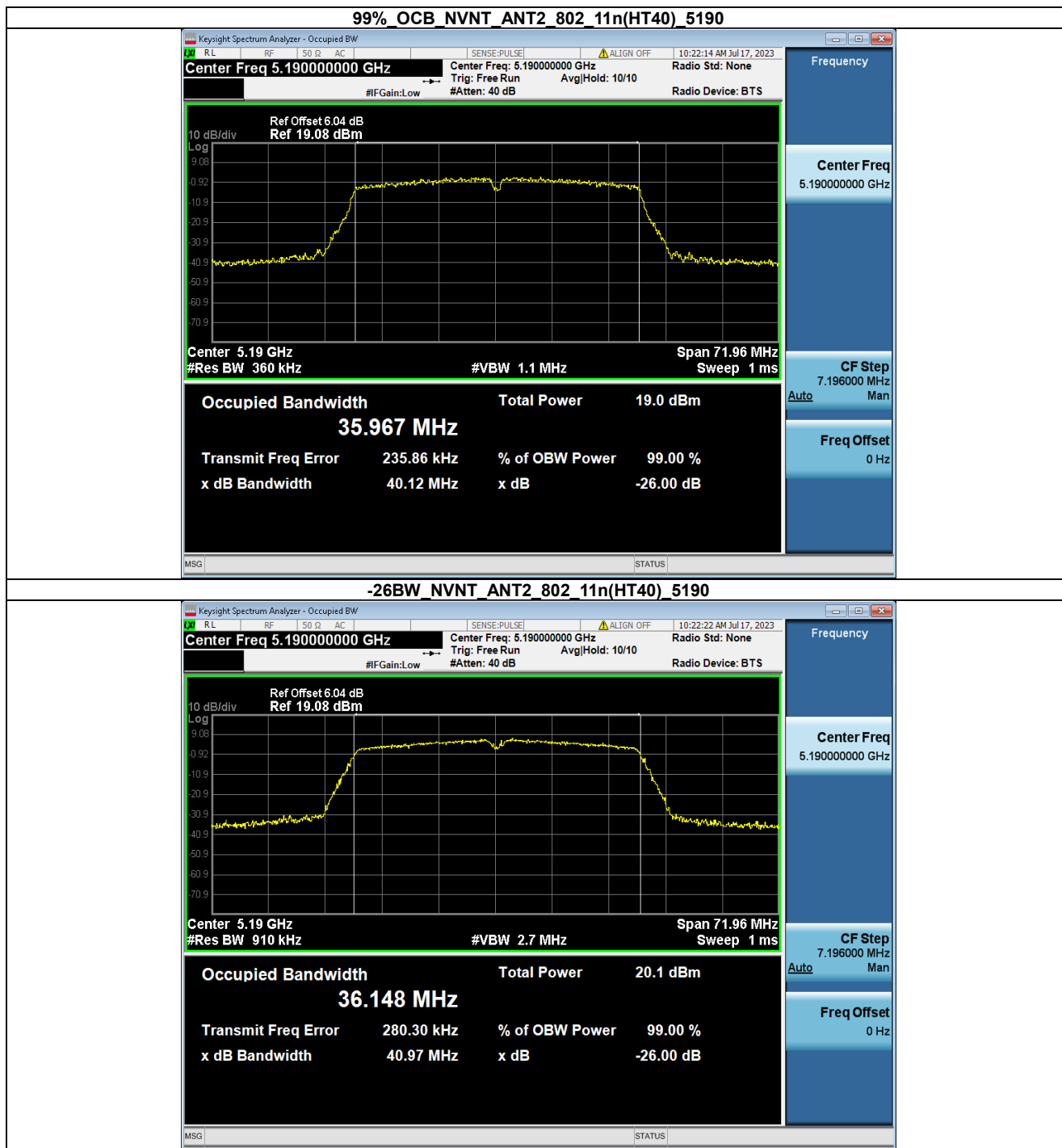


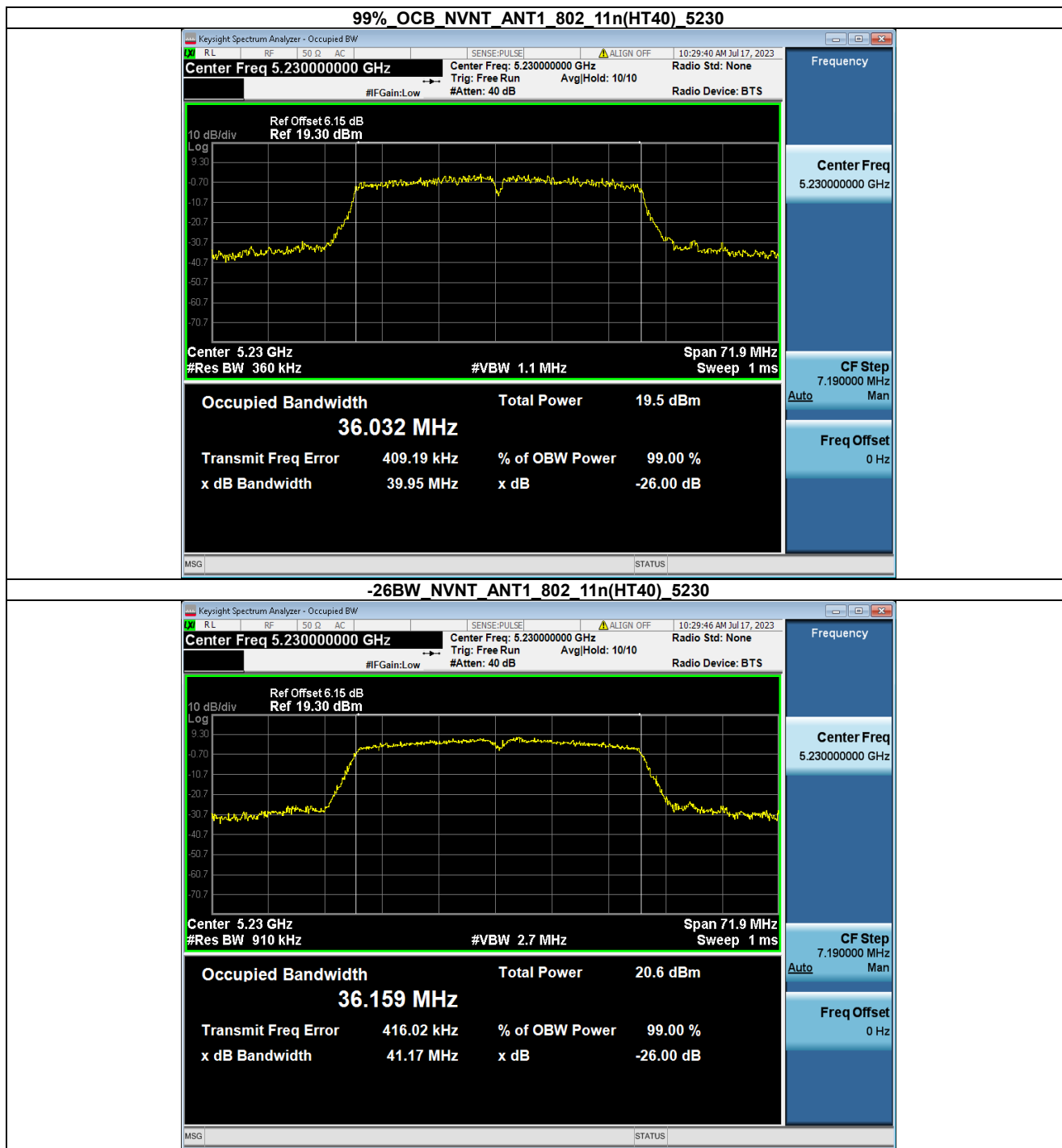


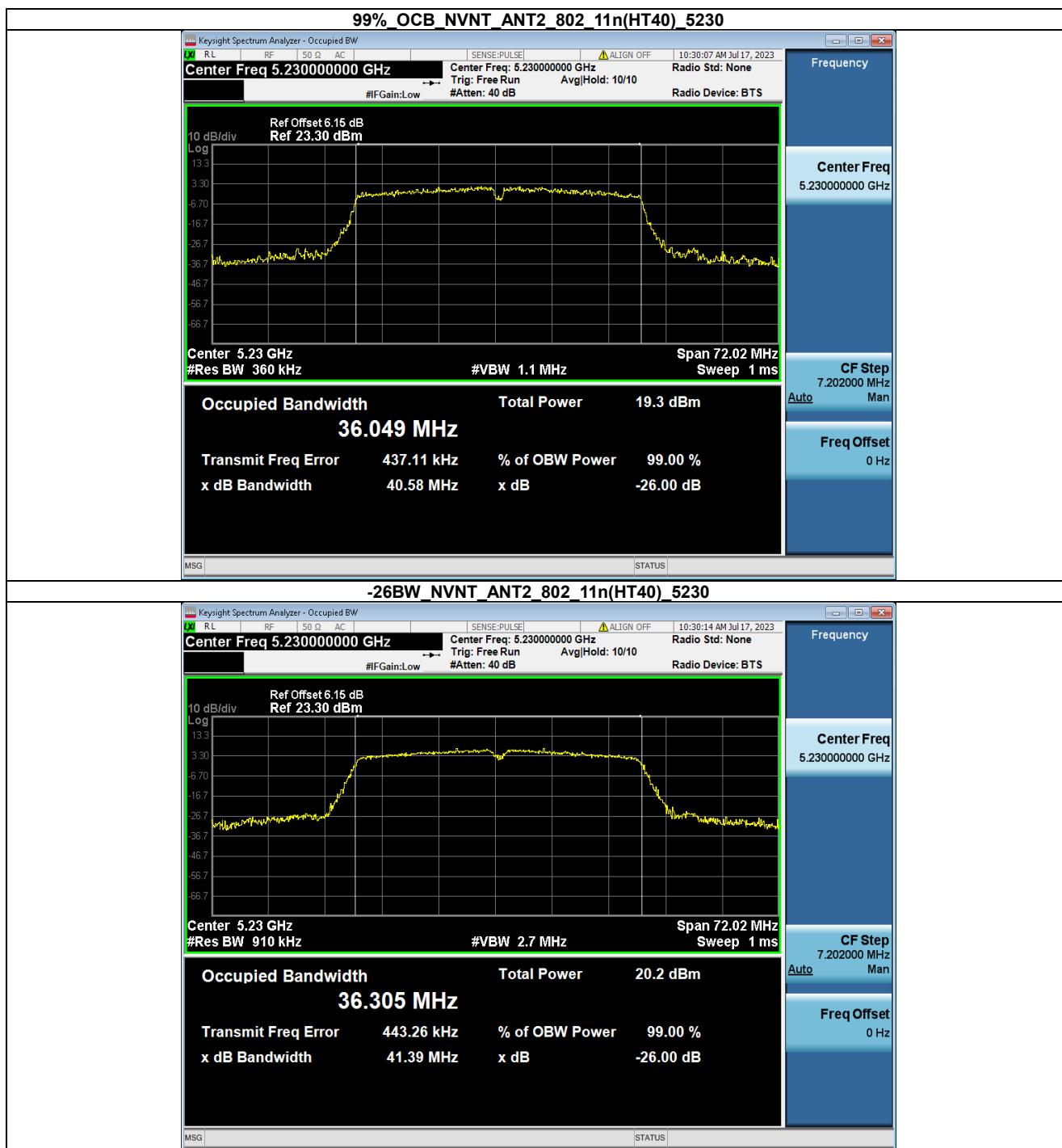


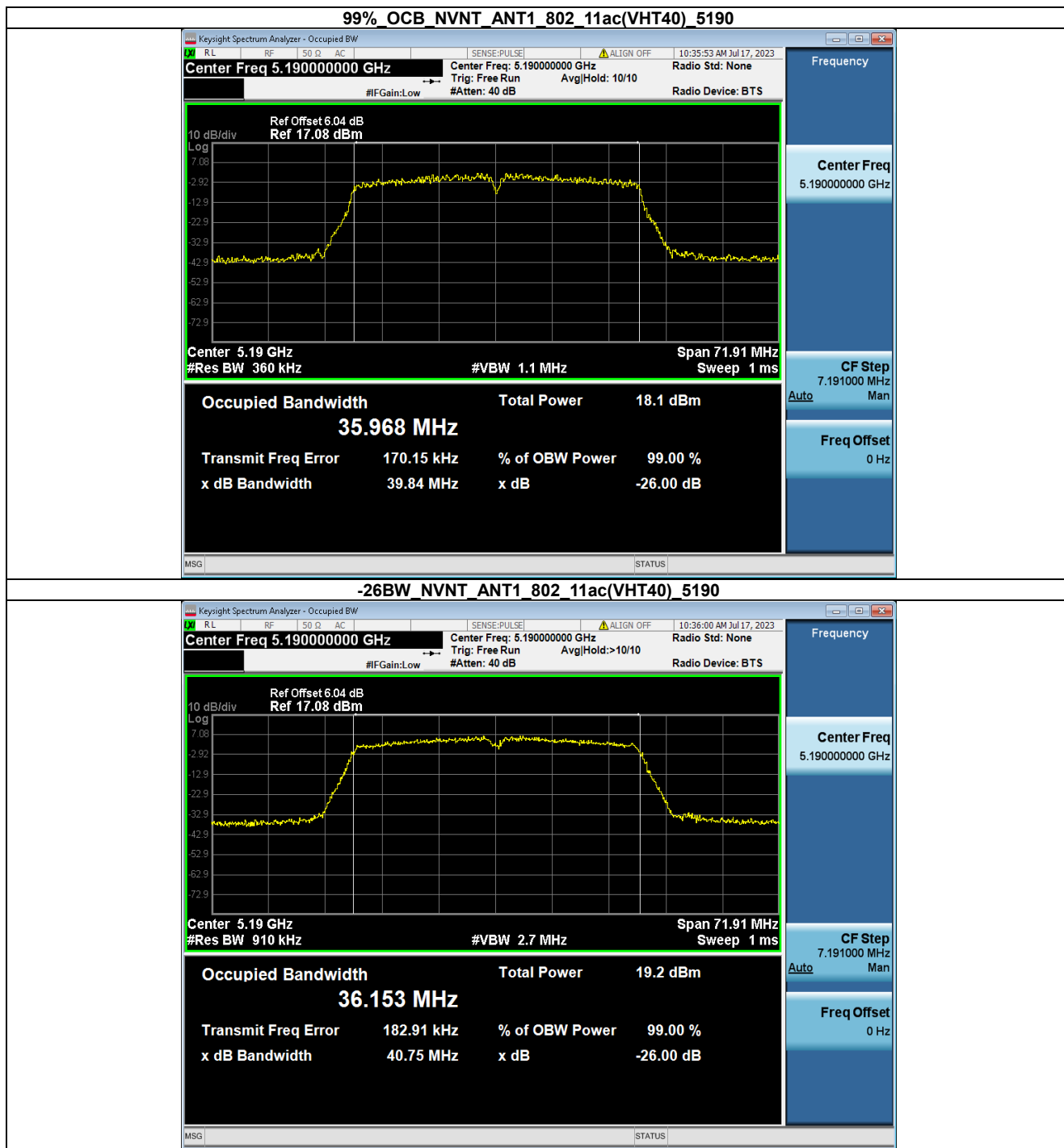


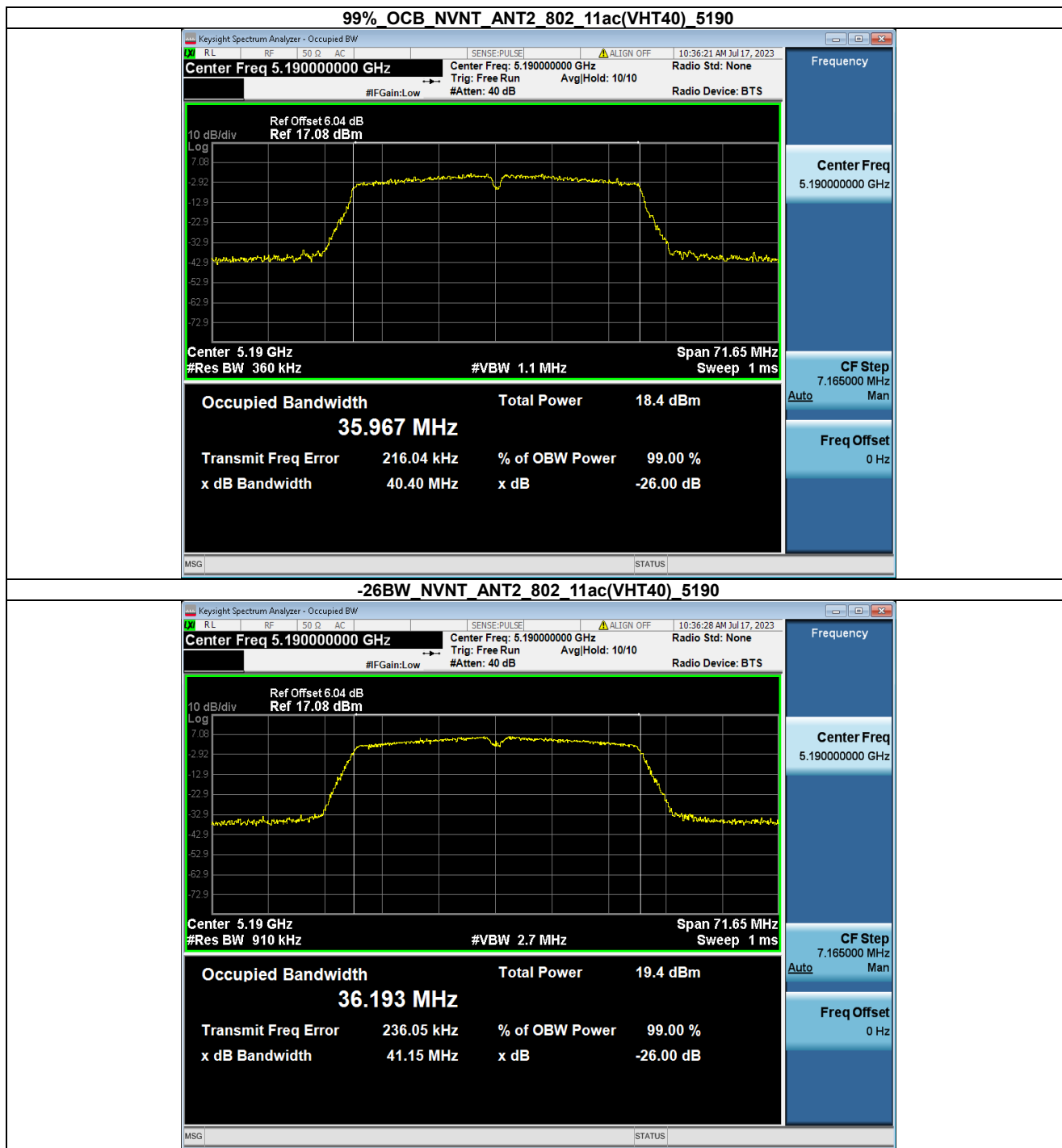


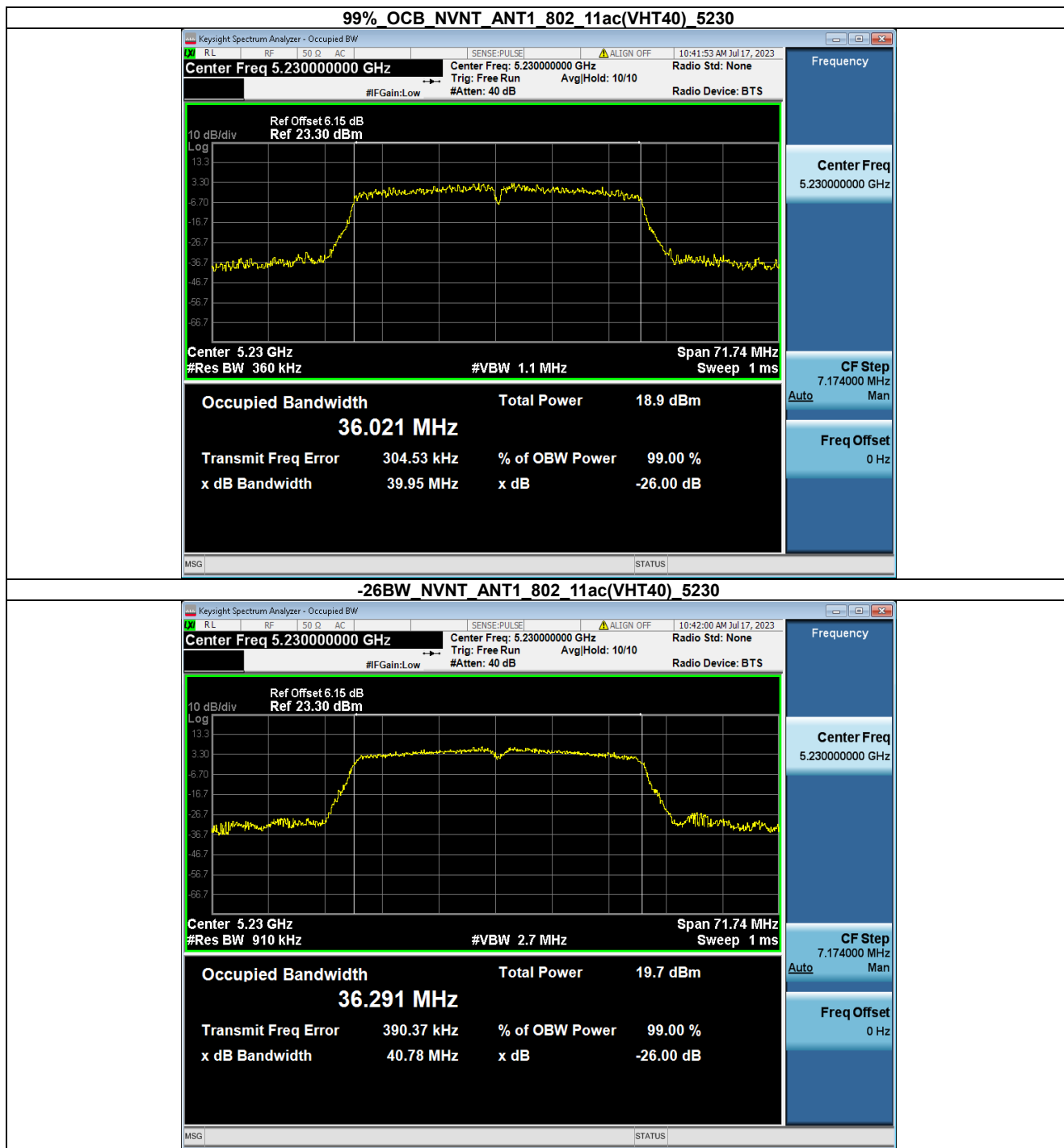


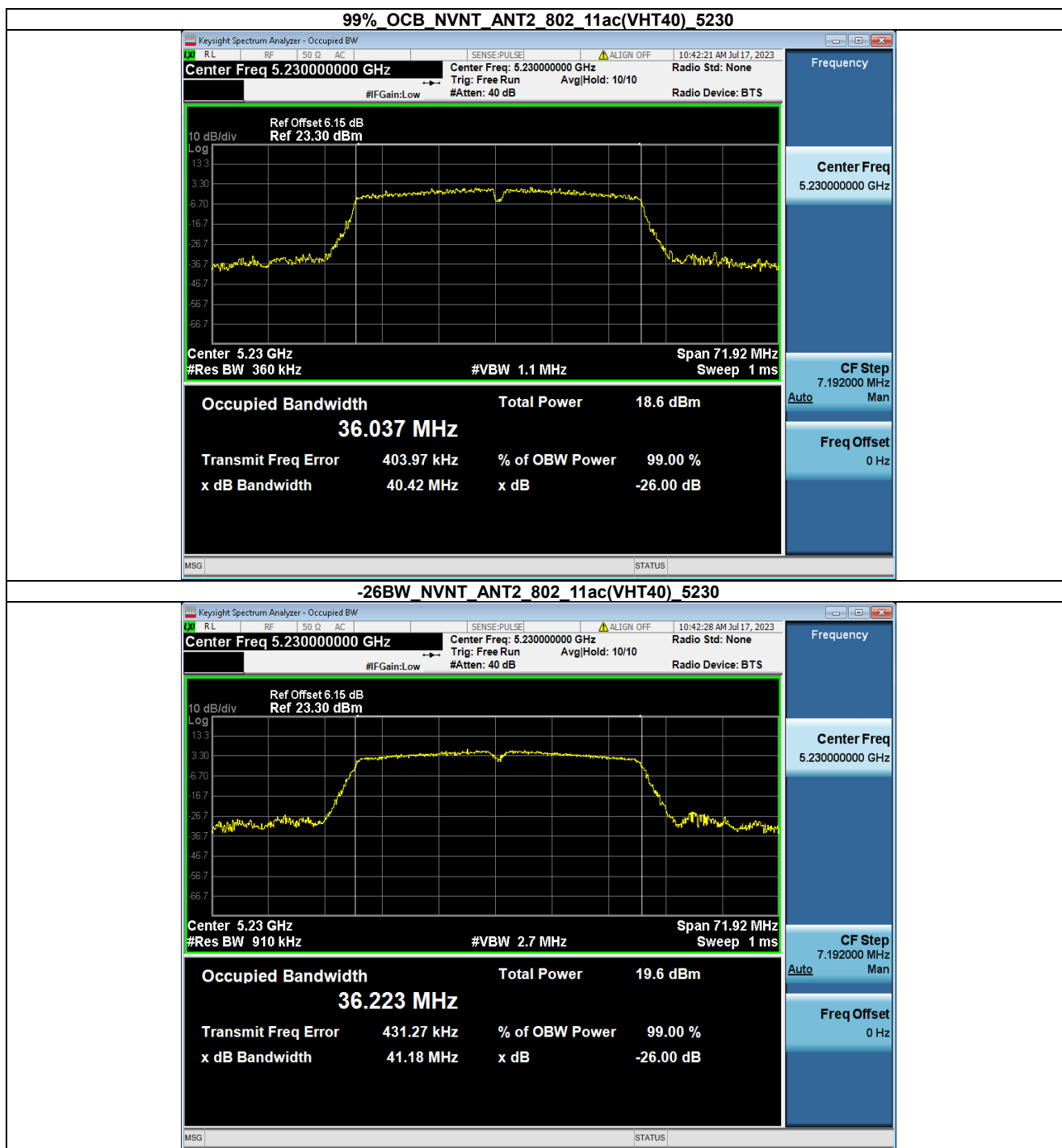


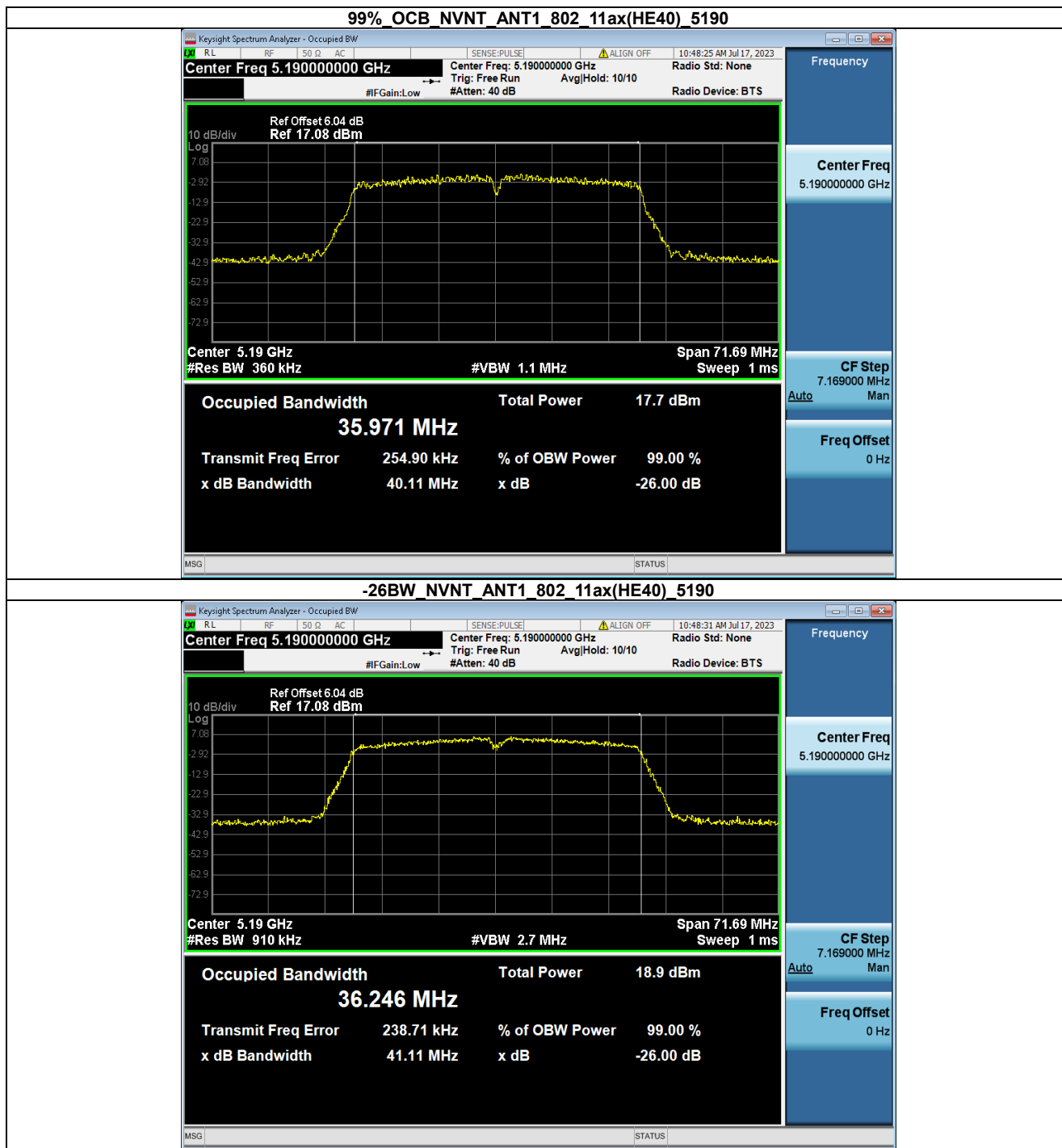


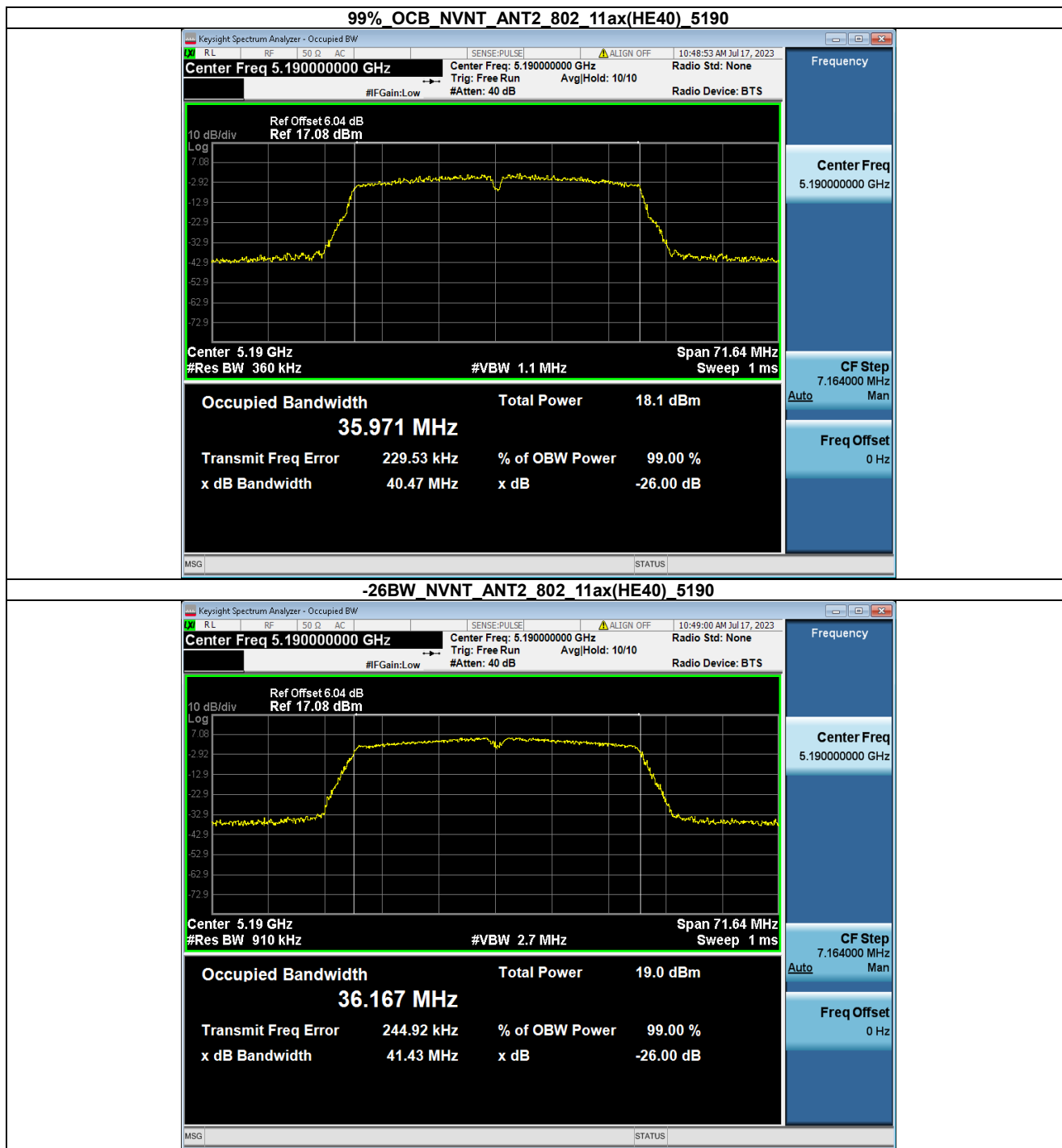


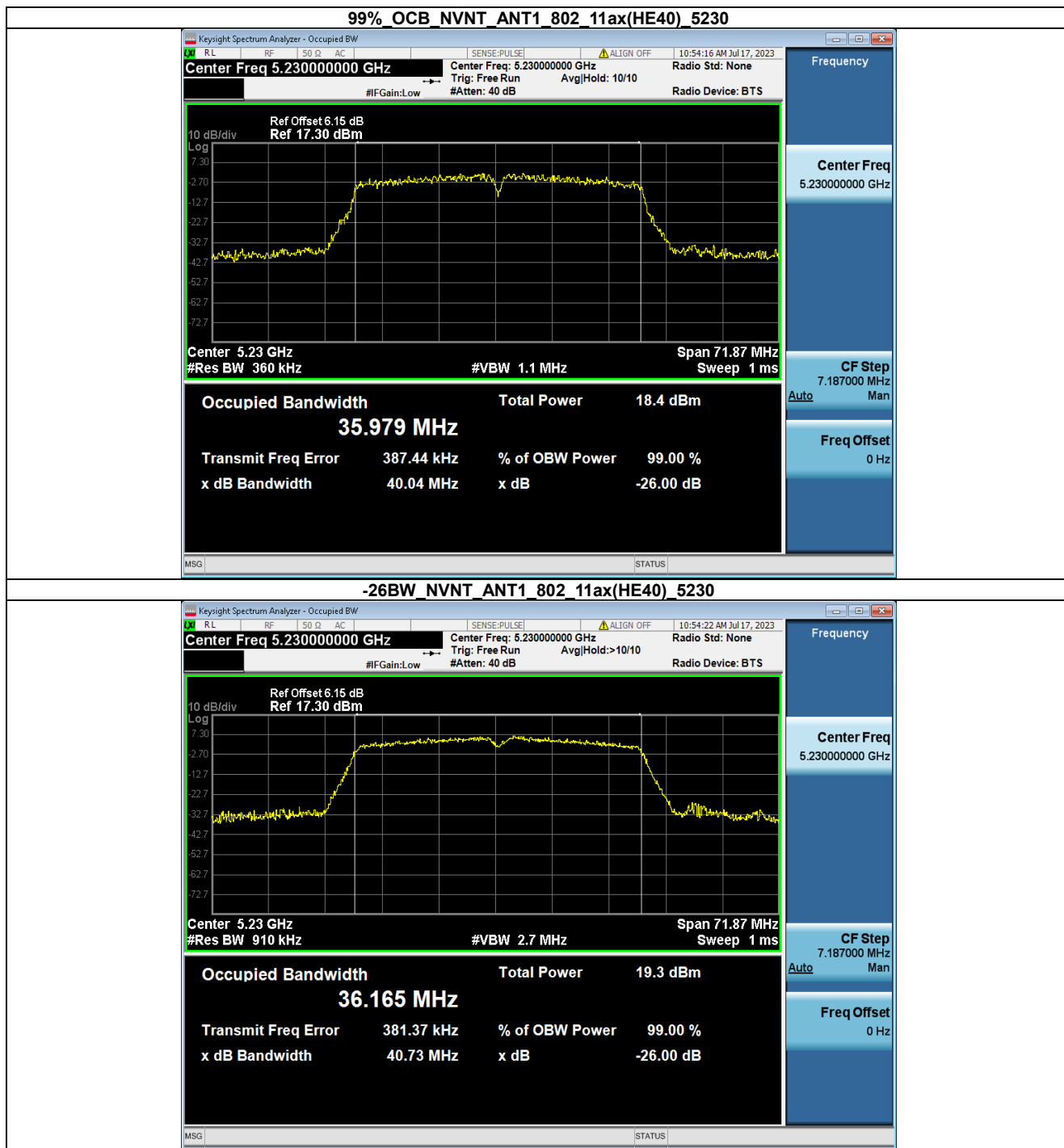


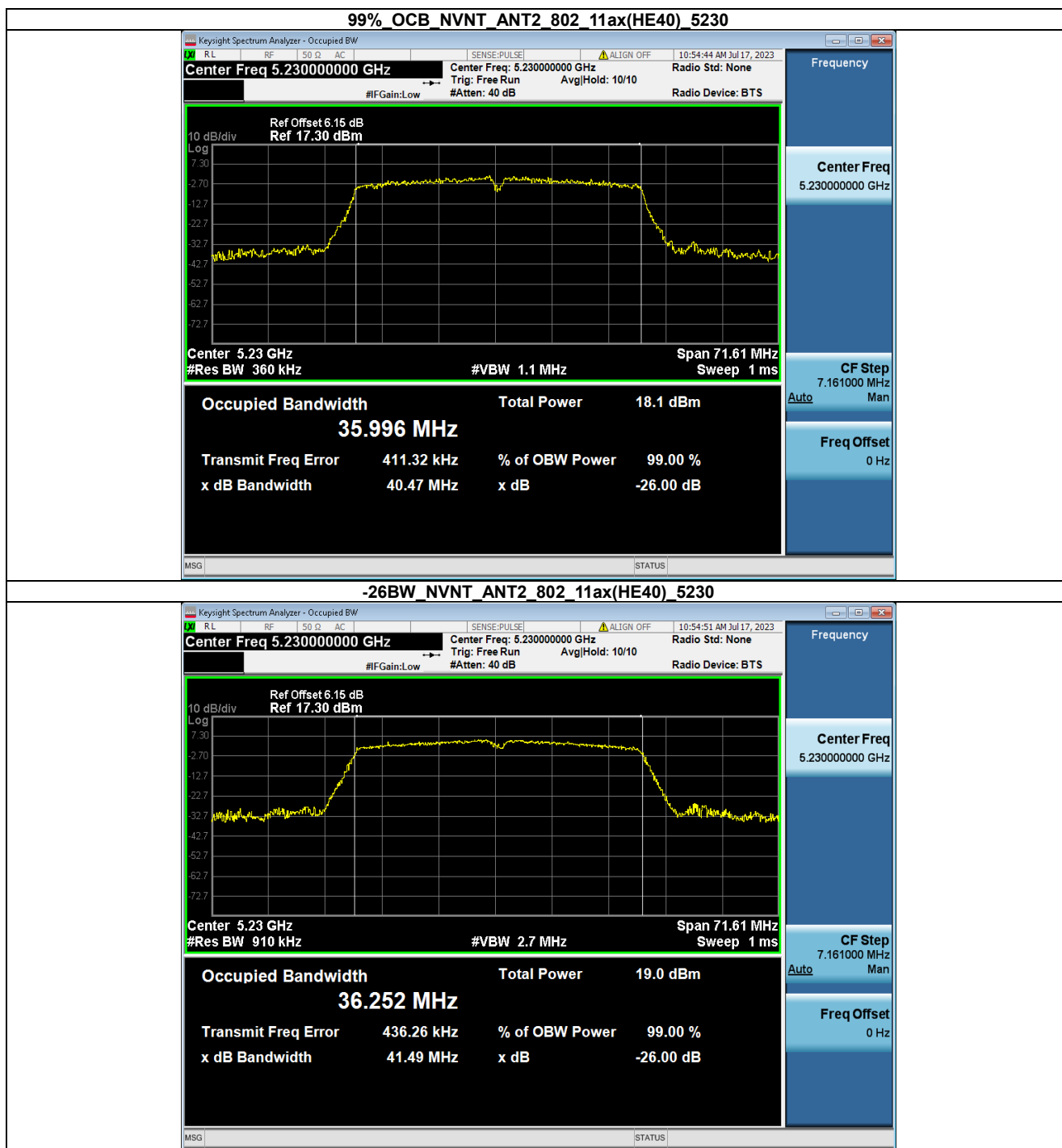


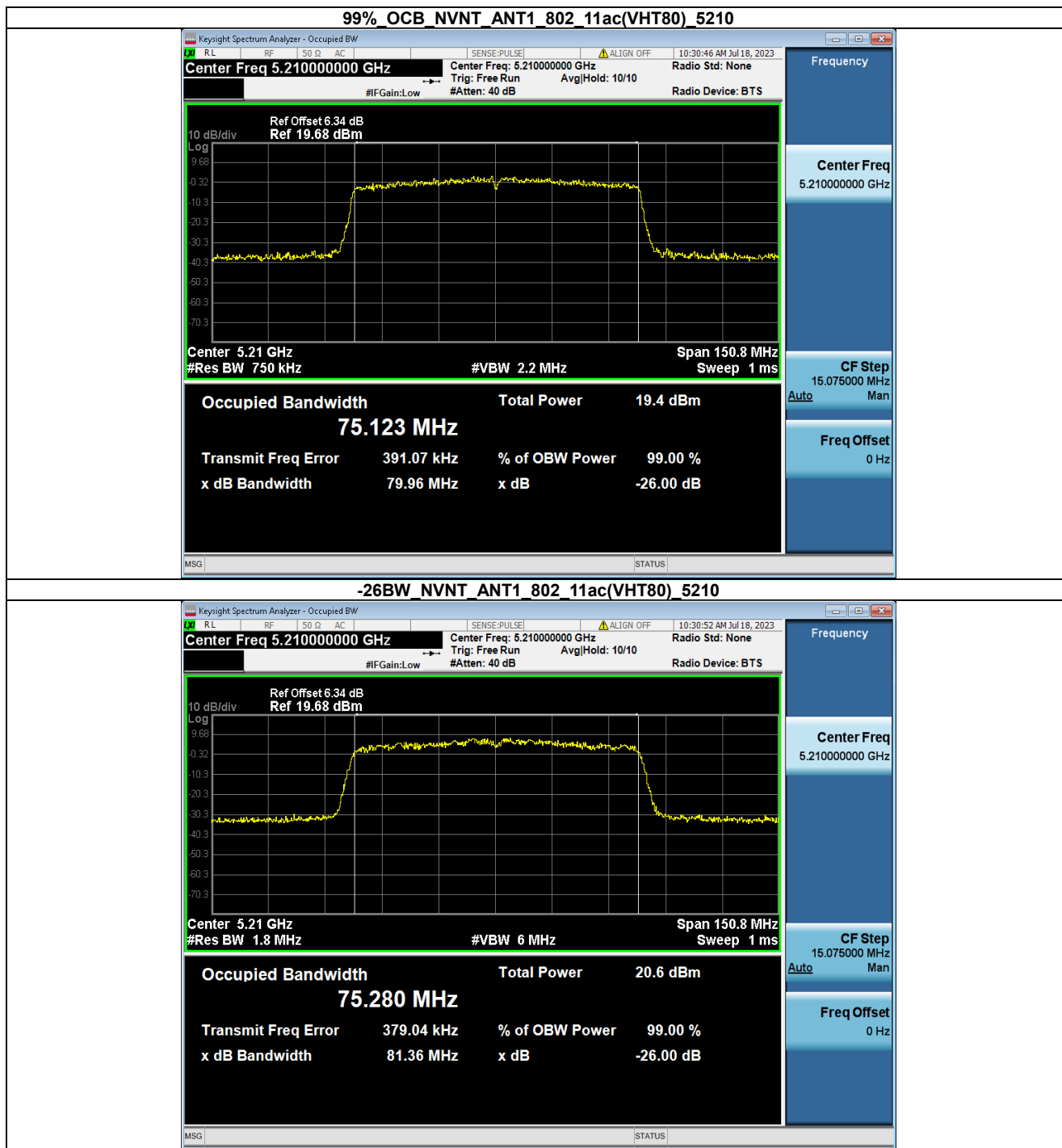


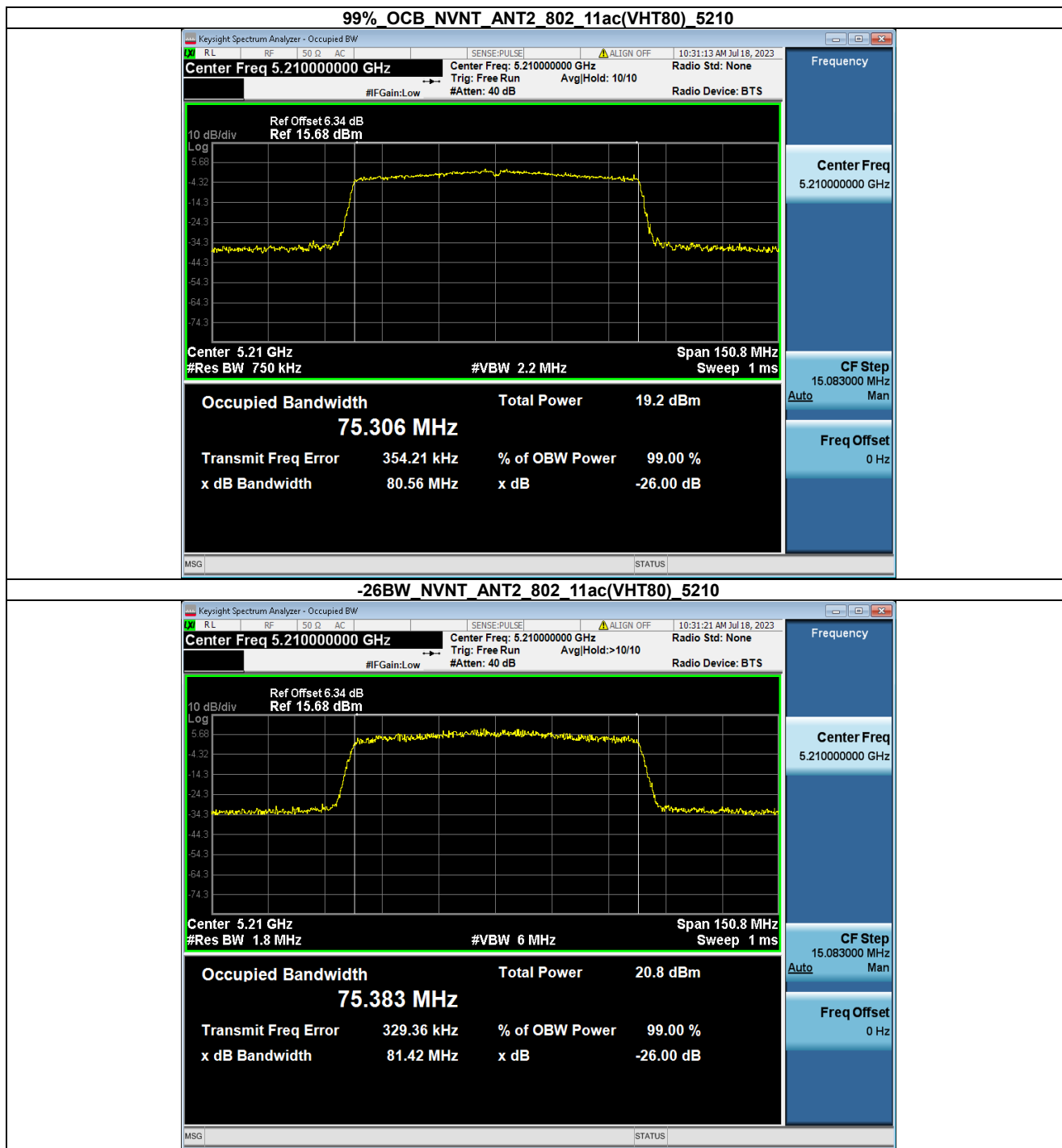


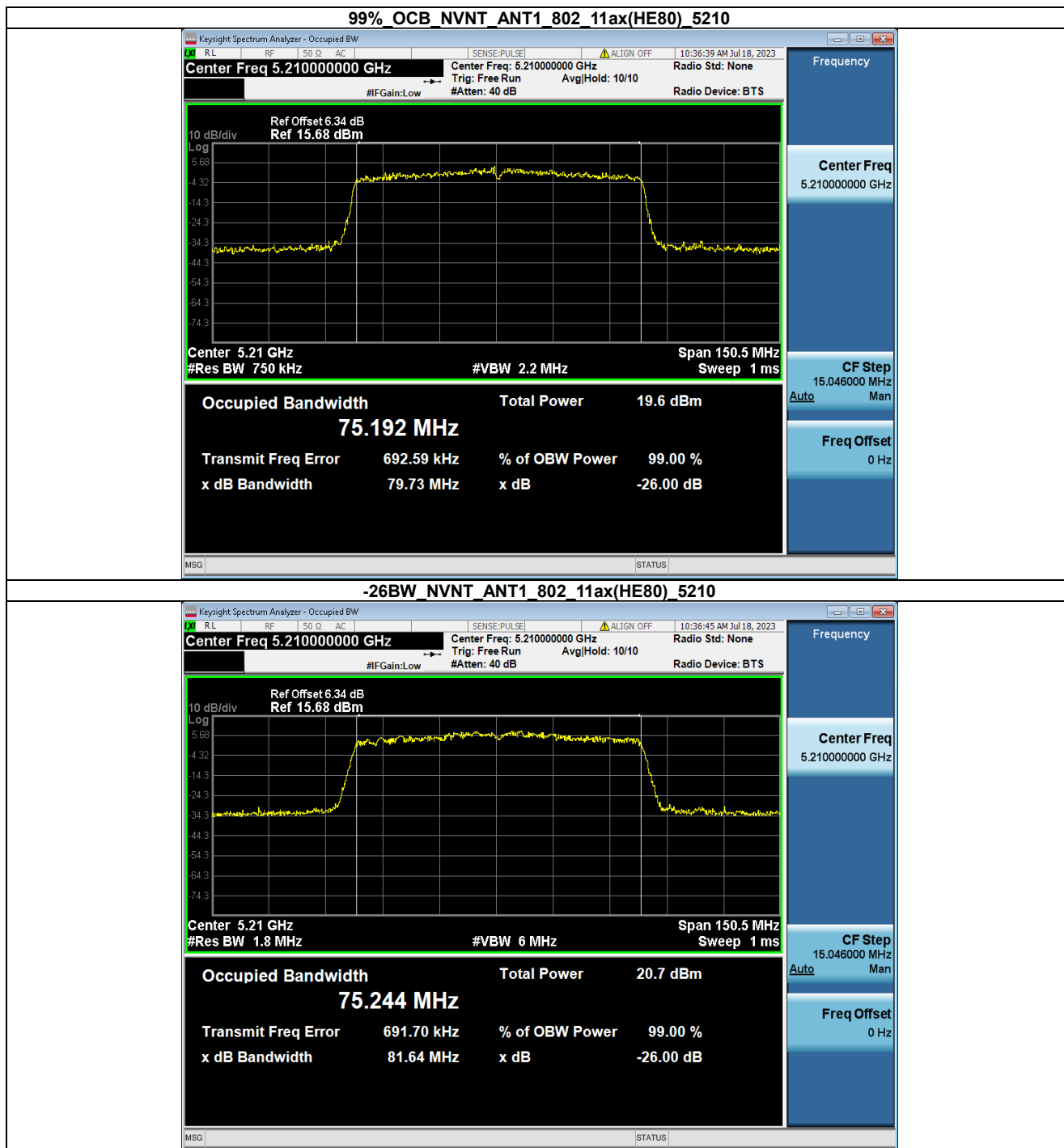


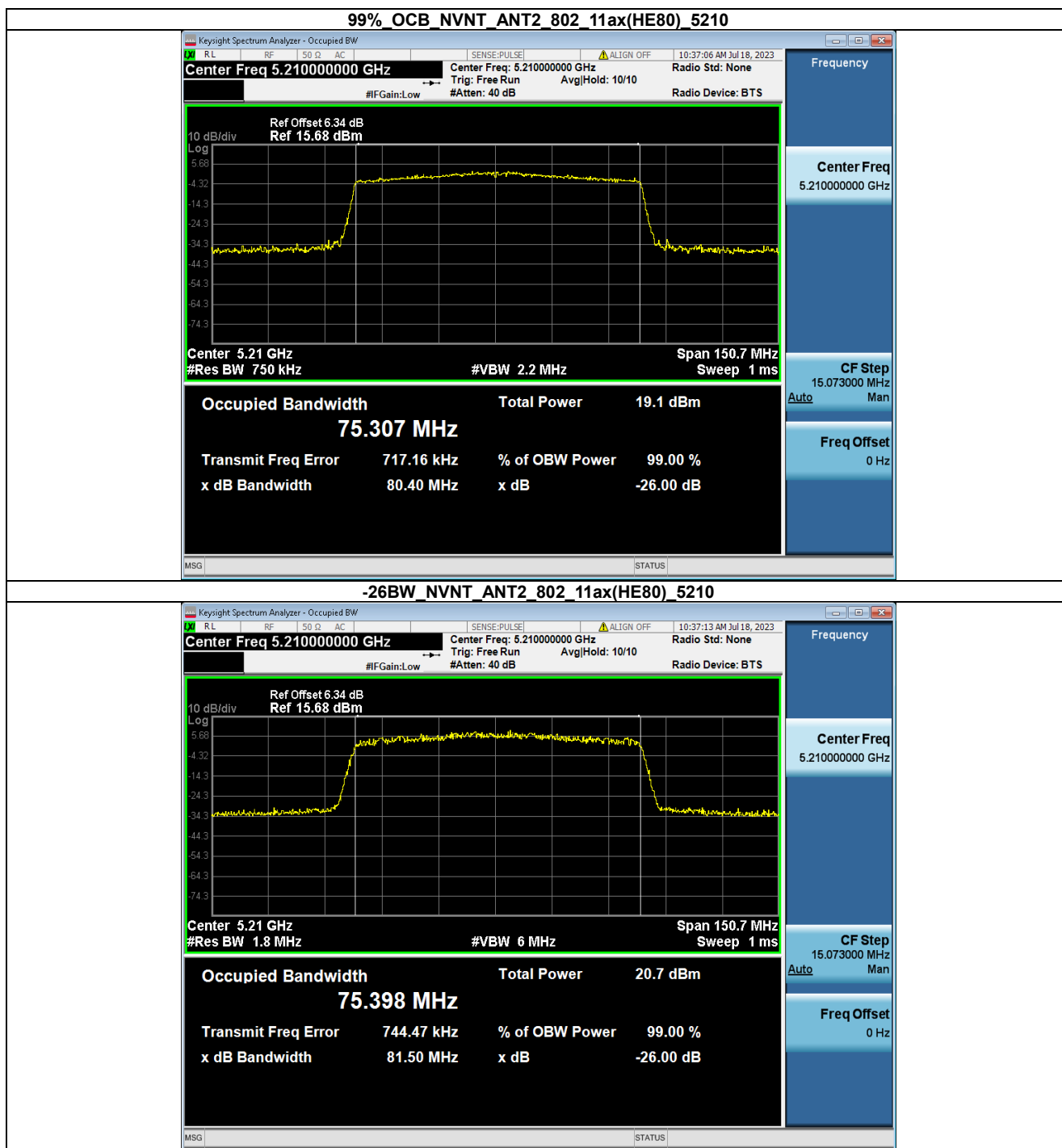






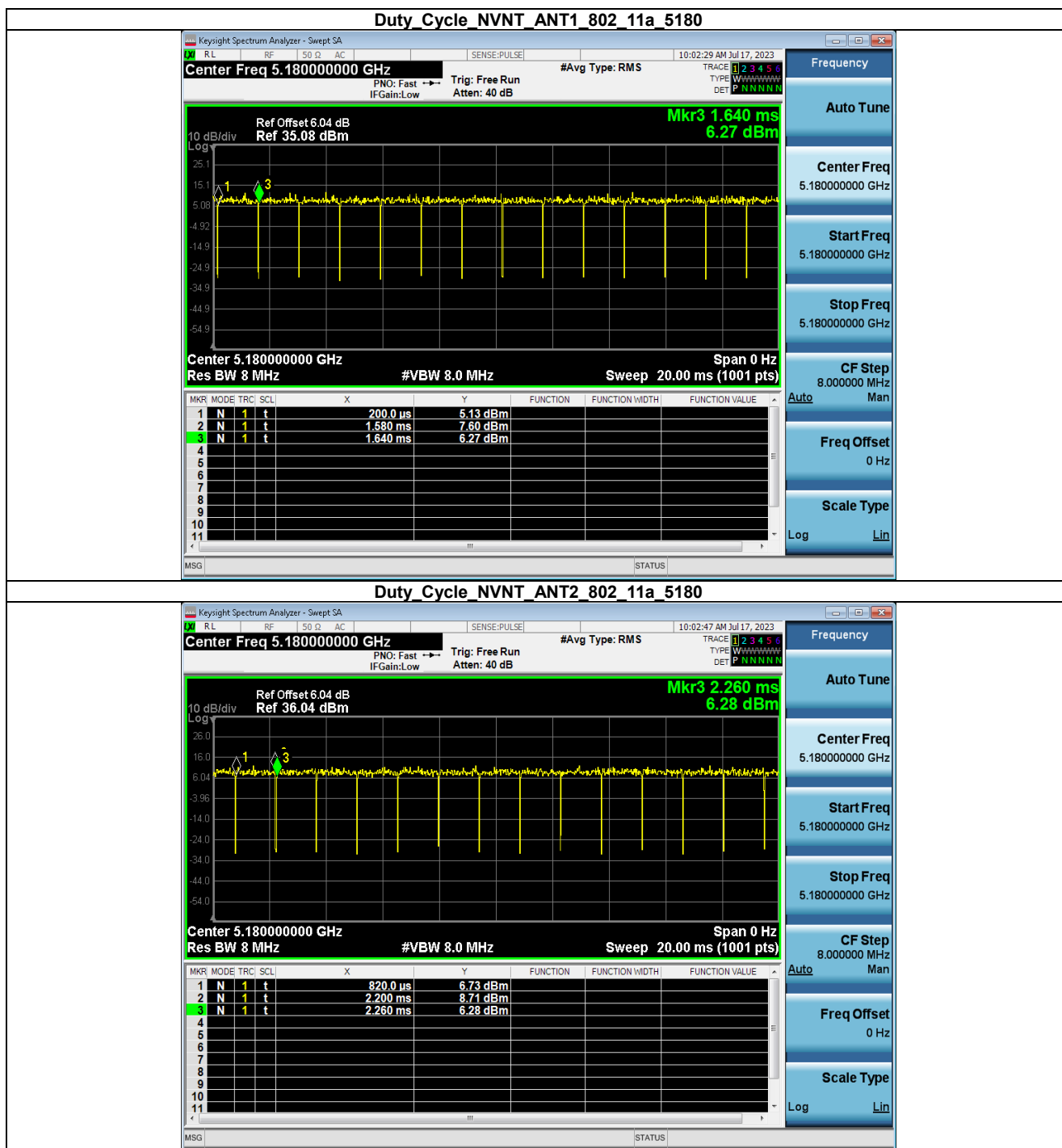


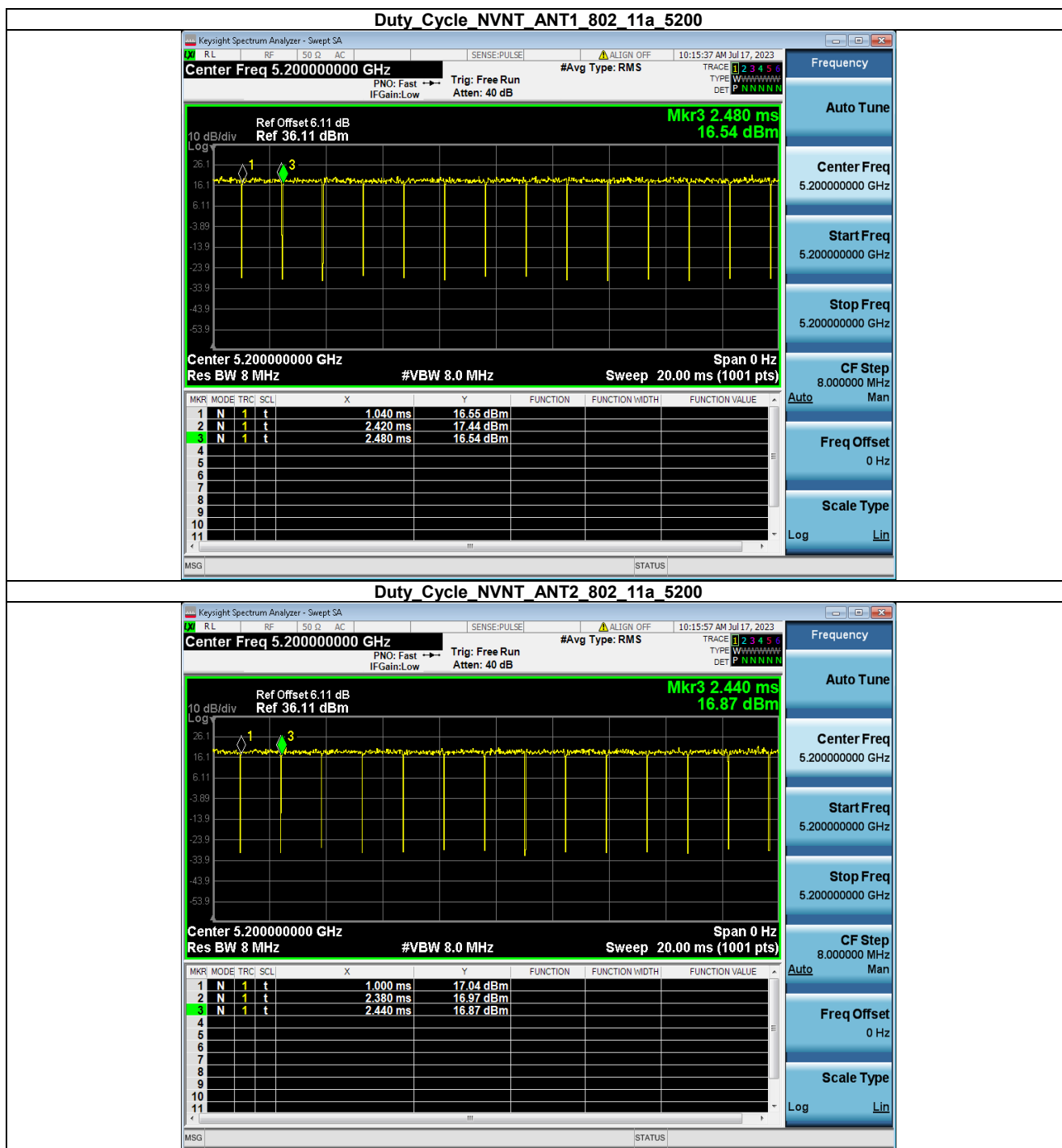


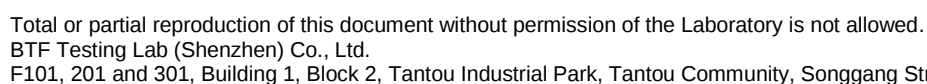


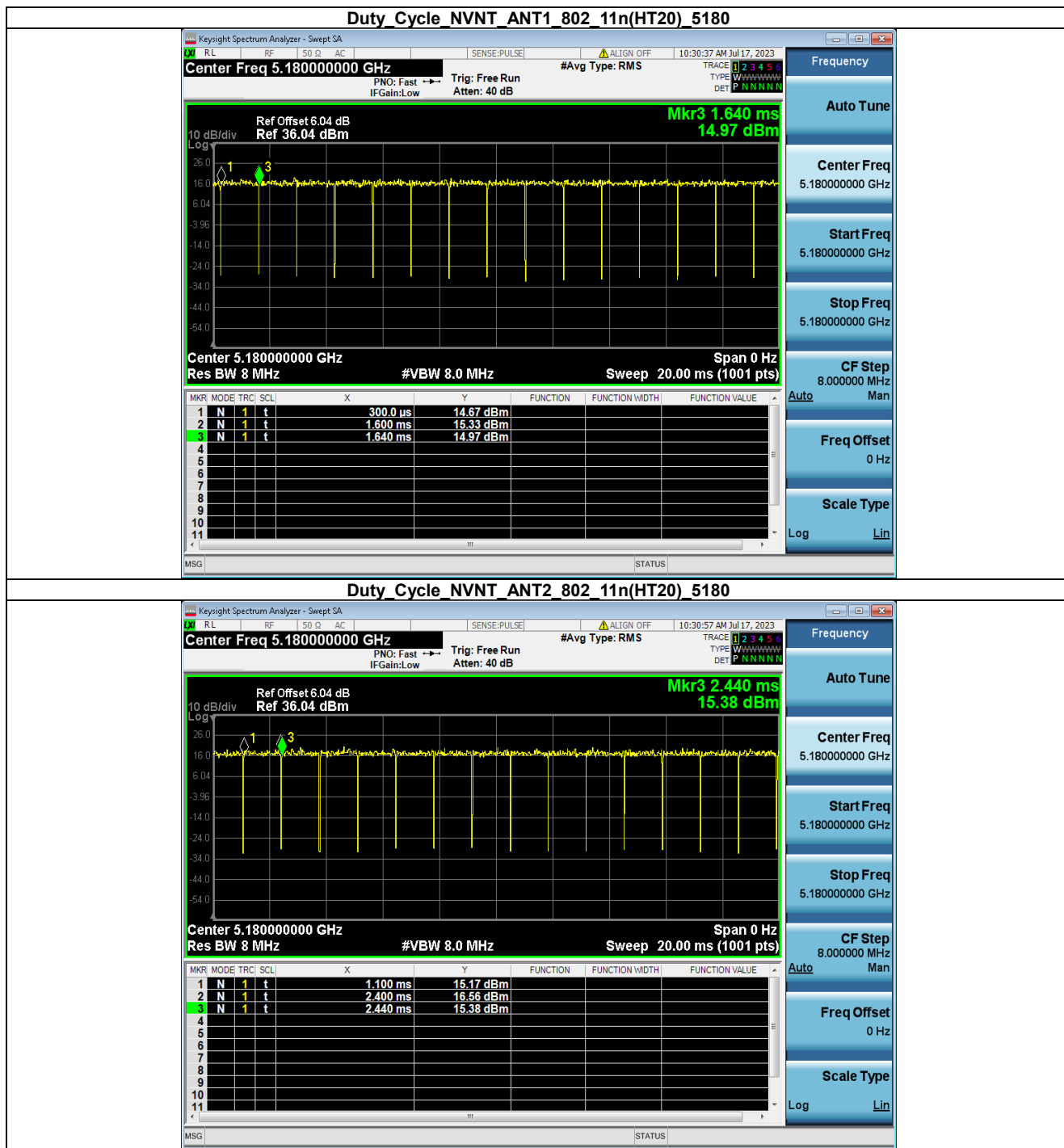
Duty Cycle

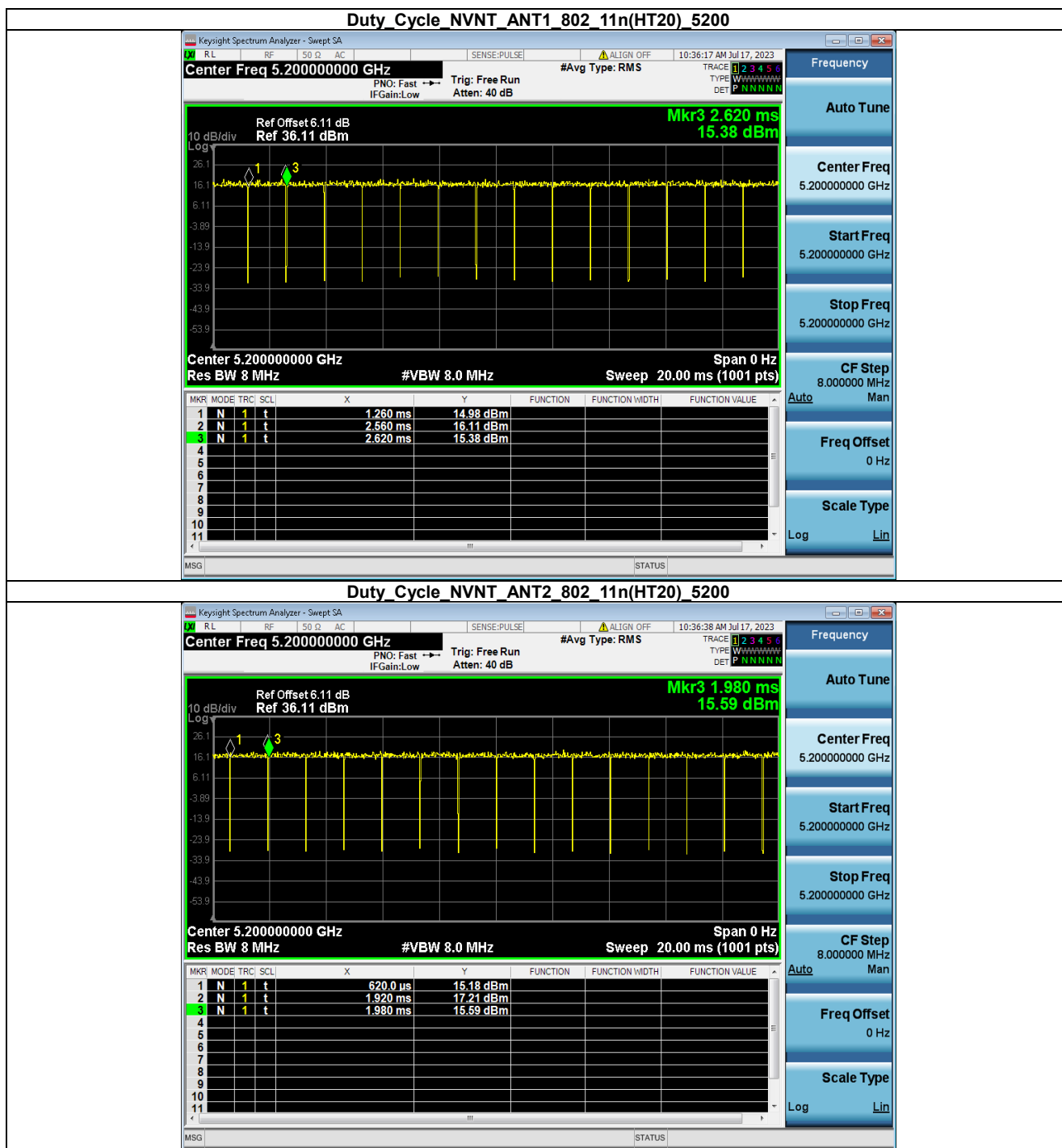
Condition	Antenna	Modulation	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	95.83	0.18
NVNT	ANT2	802.11a	5180.00	95.83	0.18
NVNT	ANT1	802.11a	5200.00	95.83	0.18
NVNT	ANT2	802.11a	5200.00	95.83	0.18
NVNT	ANT1	802.11a	5240.00	97.22	0.12
NVNT	ANT2	802.11a	5240.00	97.22	0.12
NVNT	ANT1	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	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5200.00	95.59	0.20
NVNT	ANT1	802.11n(HT20)	5240.00	97.01	0.13
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	91.89	0.37
NVNT	ANT1	802.11ac(VHT20)	5240.00	91.89	0.37
NVNT	ANT2	802.11ac(VHT20)	5240.00	94.44	0.25
NVNT	ANT1	802.11ax(HE20)	5180.00	94.44	0.25
NVNT	ANT2	802.11ax(HE20)	5180.00	91.89	0.37
NVNT	ANT1	802.11ax(HE20)	5200.00	94.44	0.25
NVNT	ANT2	802.11ax(HE20)	5200.00	94.44	0.25
NVNT	ANT1	802.11ax(HE20)	5240.00	94.44	0.25
NVNT	ANT2	802.11ax(HE20)	5240.00	94.44	0.25
NVNT	ANT1	802.11n(HT40)	5190.00	94.12	0.26
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	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5190.00	85.00	0.71
NVNT	ANT2	802.11ac(VHT40)	5190.00	85.00	0.71
NVNT	ANT1	802.11ac(VHT40)	5230.00	89.47	0.48
NVNT	ANT2	802.11ac(VHT40)	5230.00	90.00	0.46
NVNT	ANT1	802.11ax(HE40)	5190.00	90.00	0.46
NVNT	ANT2	802.11ax(HE40)	5190.00	90.00	0.46
NVNT	ANT1	802.11ax(HE40)	5230.00	85.00	0.71
NVNT	ANT2	802.11ax(HE40)	5230.00	85.00	0.71
NVNT	ANT1	802.11ac(VHT80)	5210.00	83.33	0.79
NVNT	ANT2	802.11ac(VHT80)	5210.00	83.33	0.79
NVNT	ANT1	802.11ax(HE80)	5210.00	81.82	0.87
NVNT	ANT2	802.11ax(HE80)	5210.00	75.00	1.25

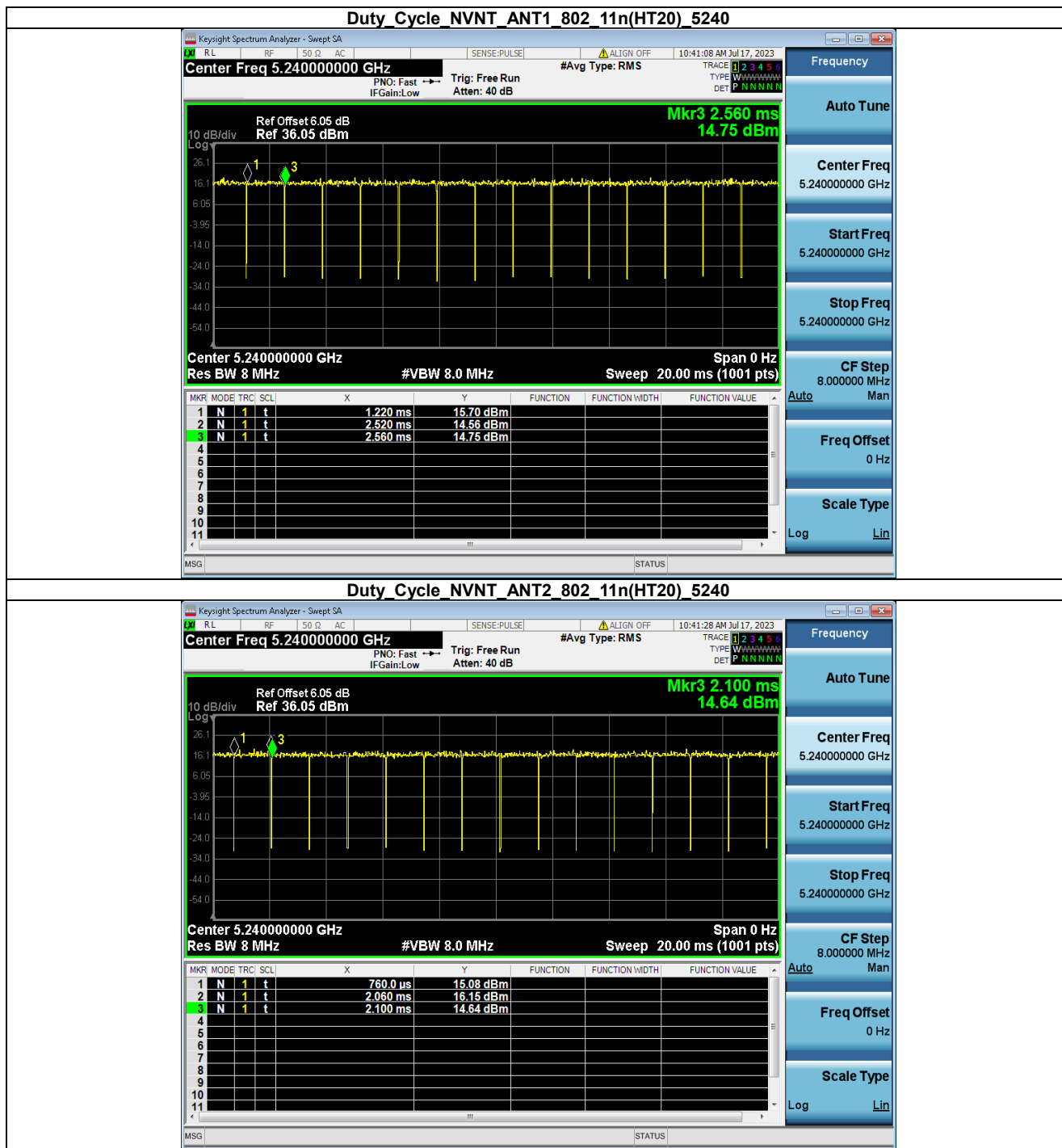


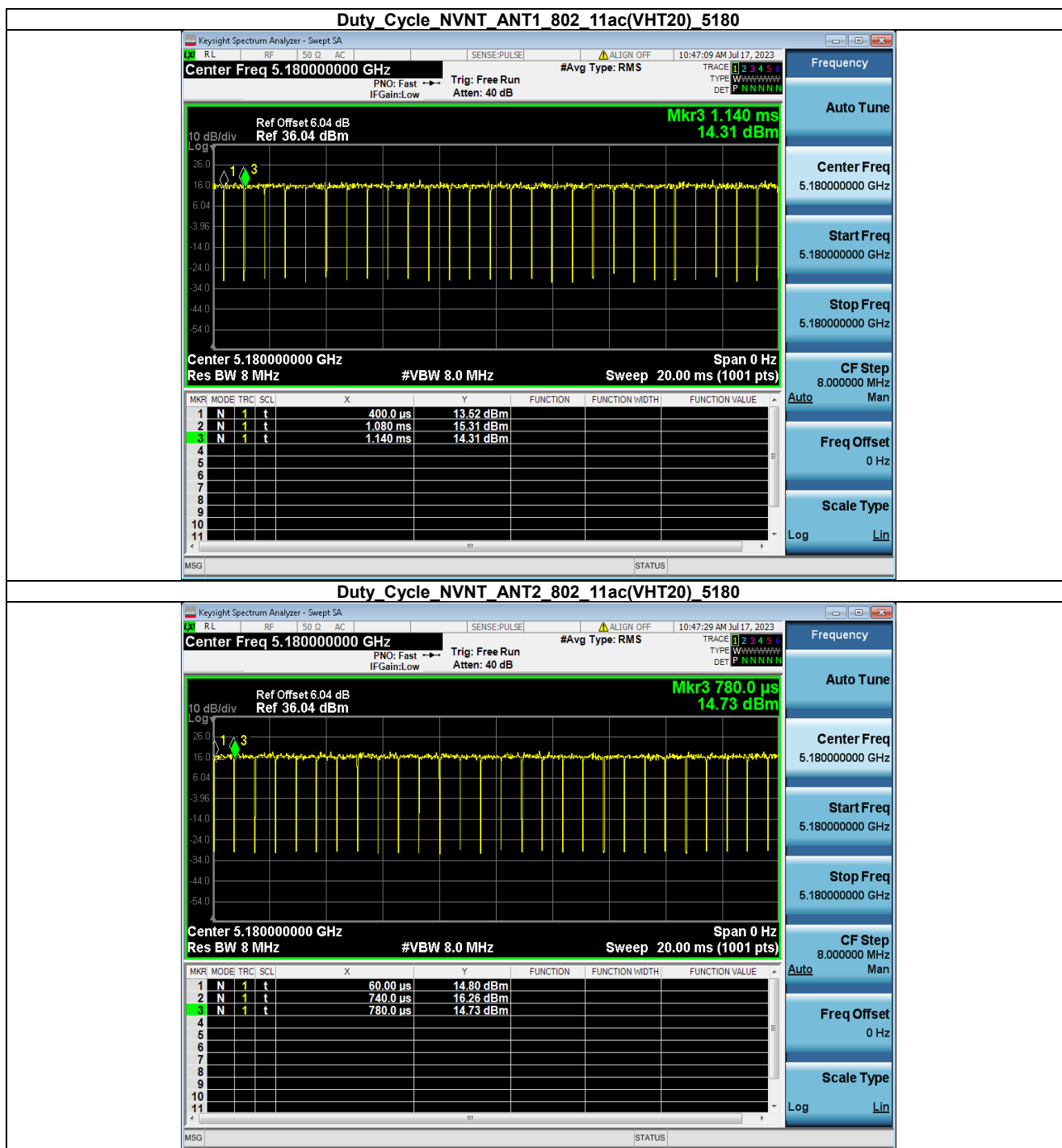


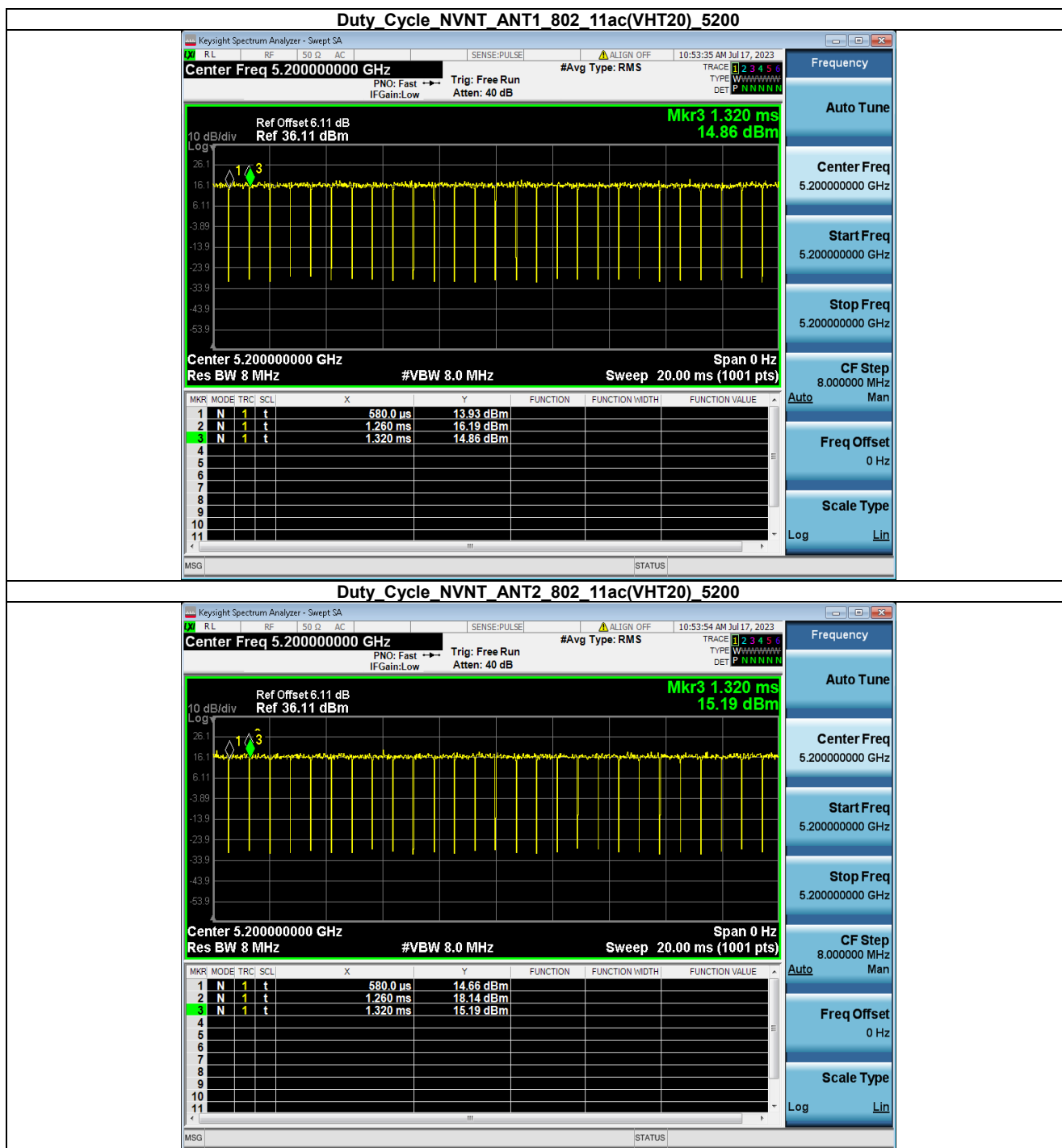


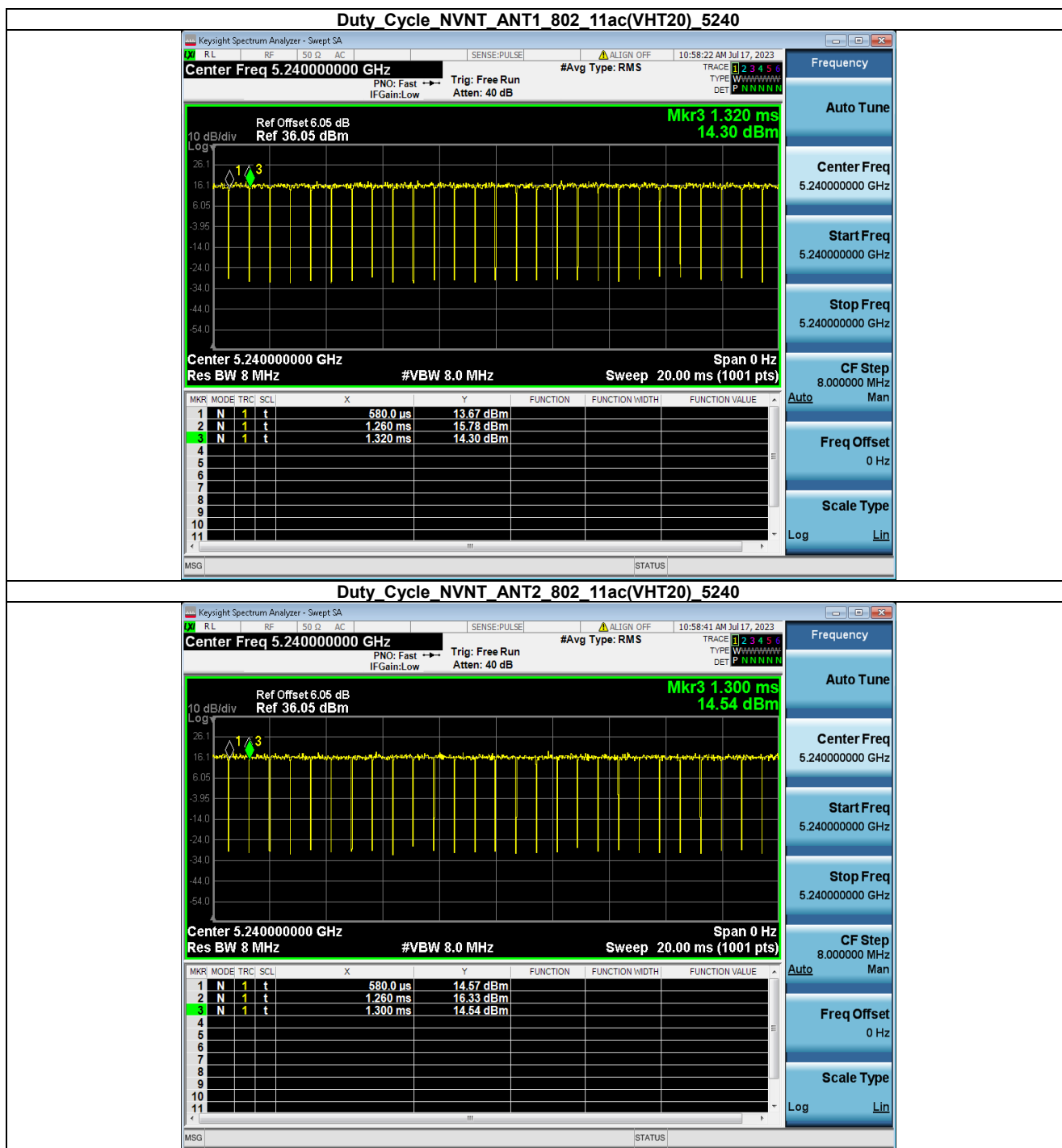


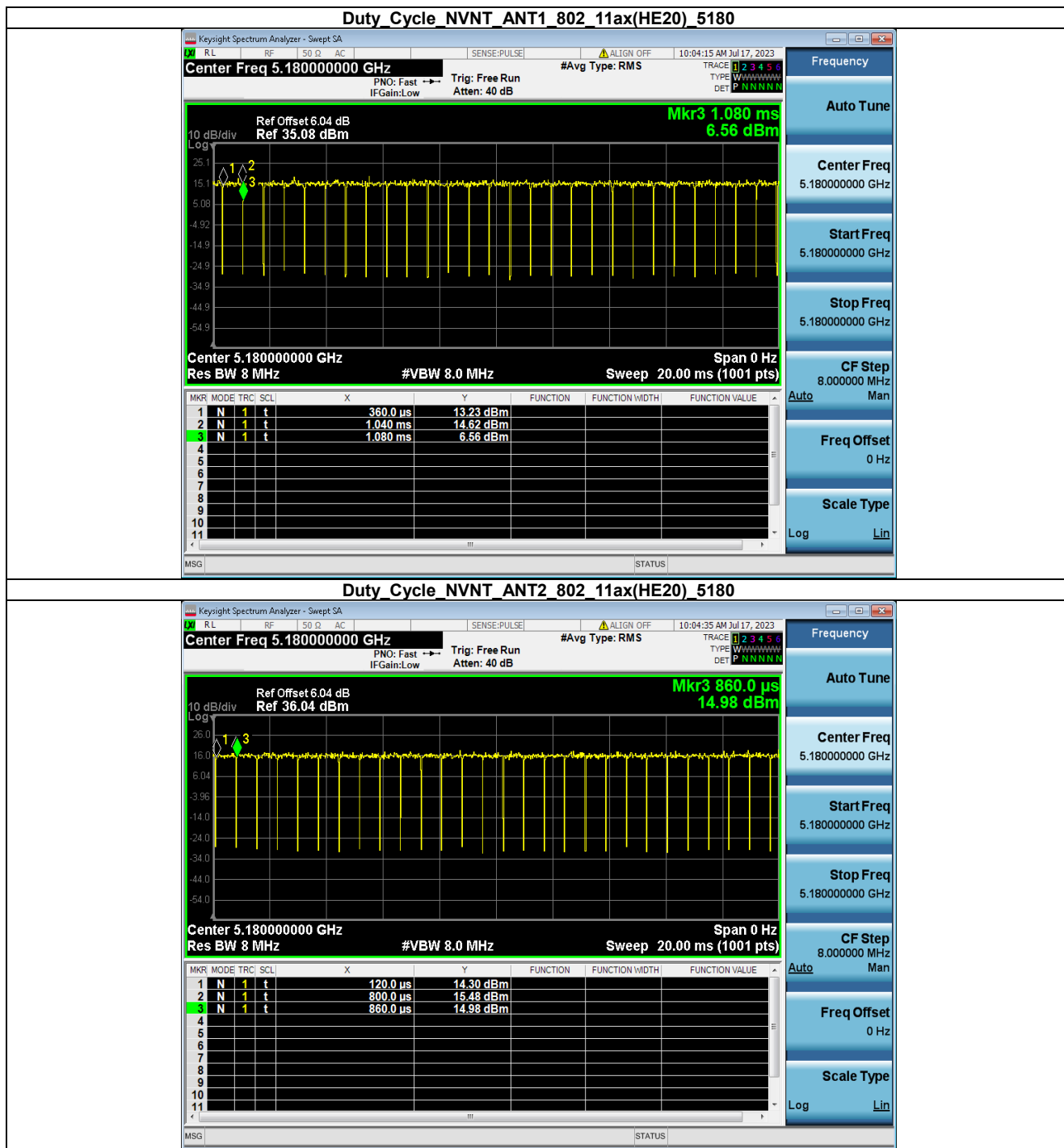


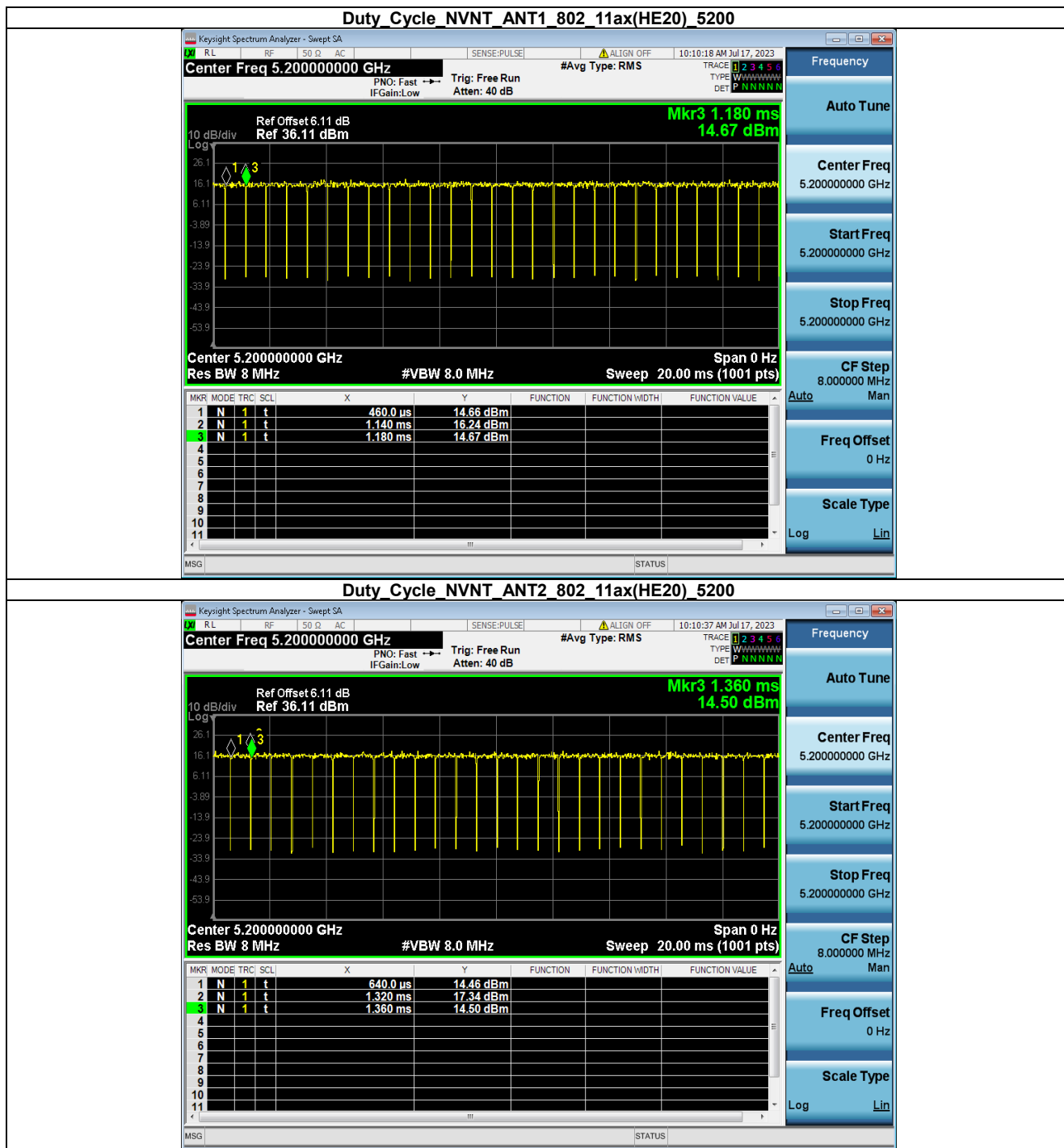


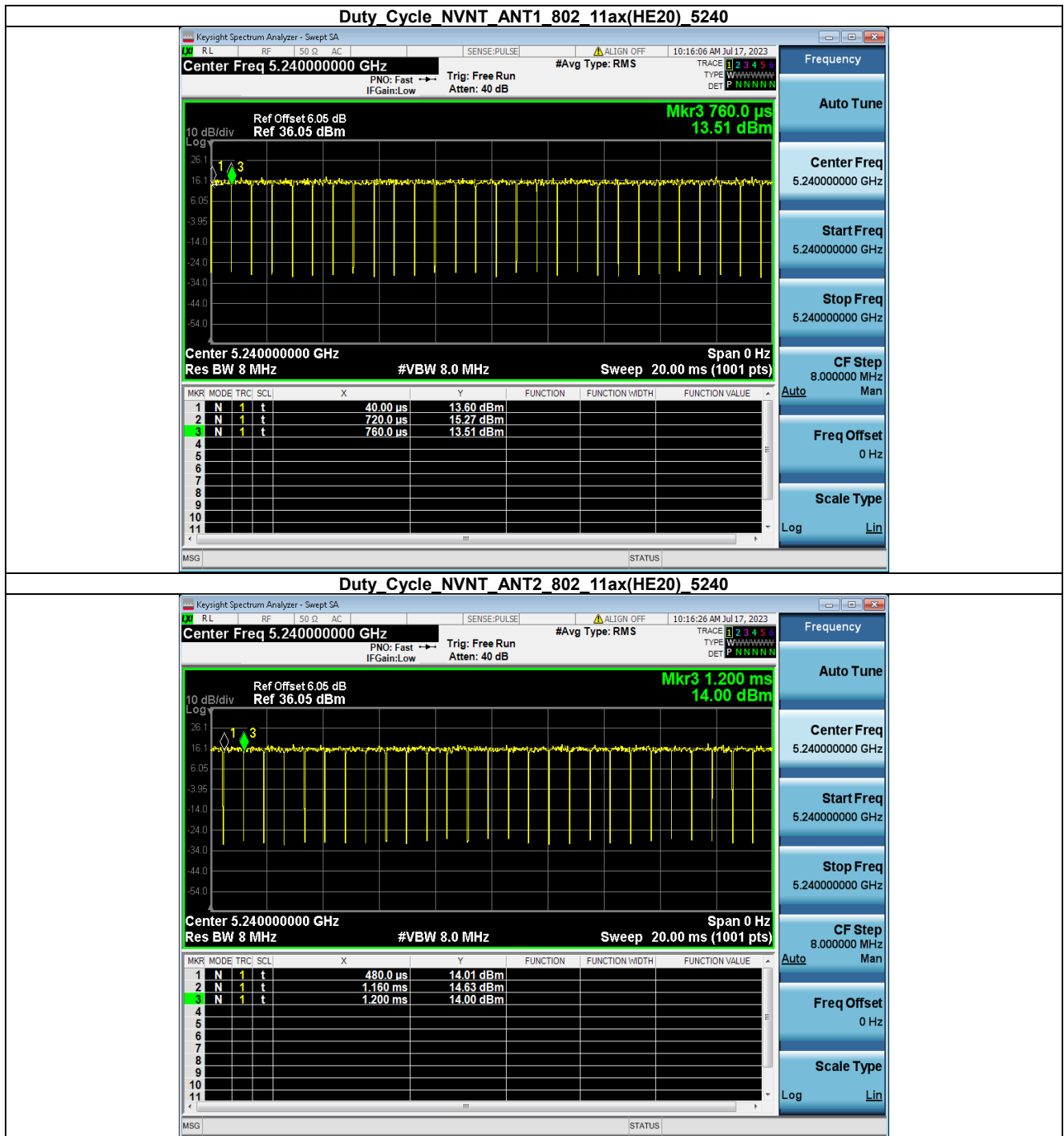


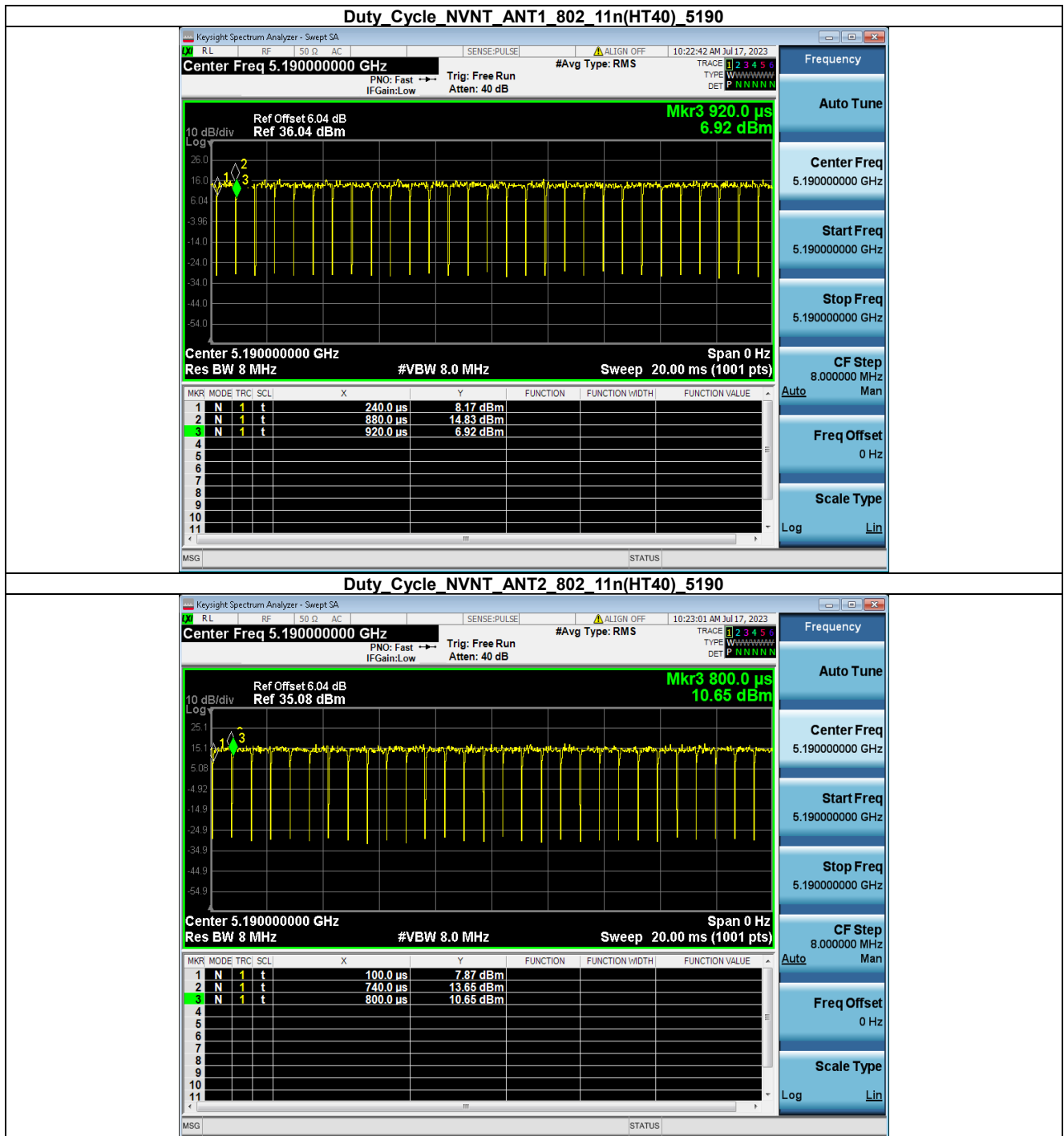


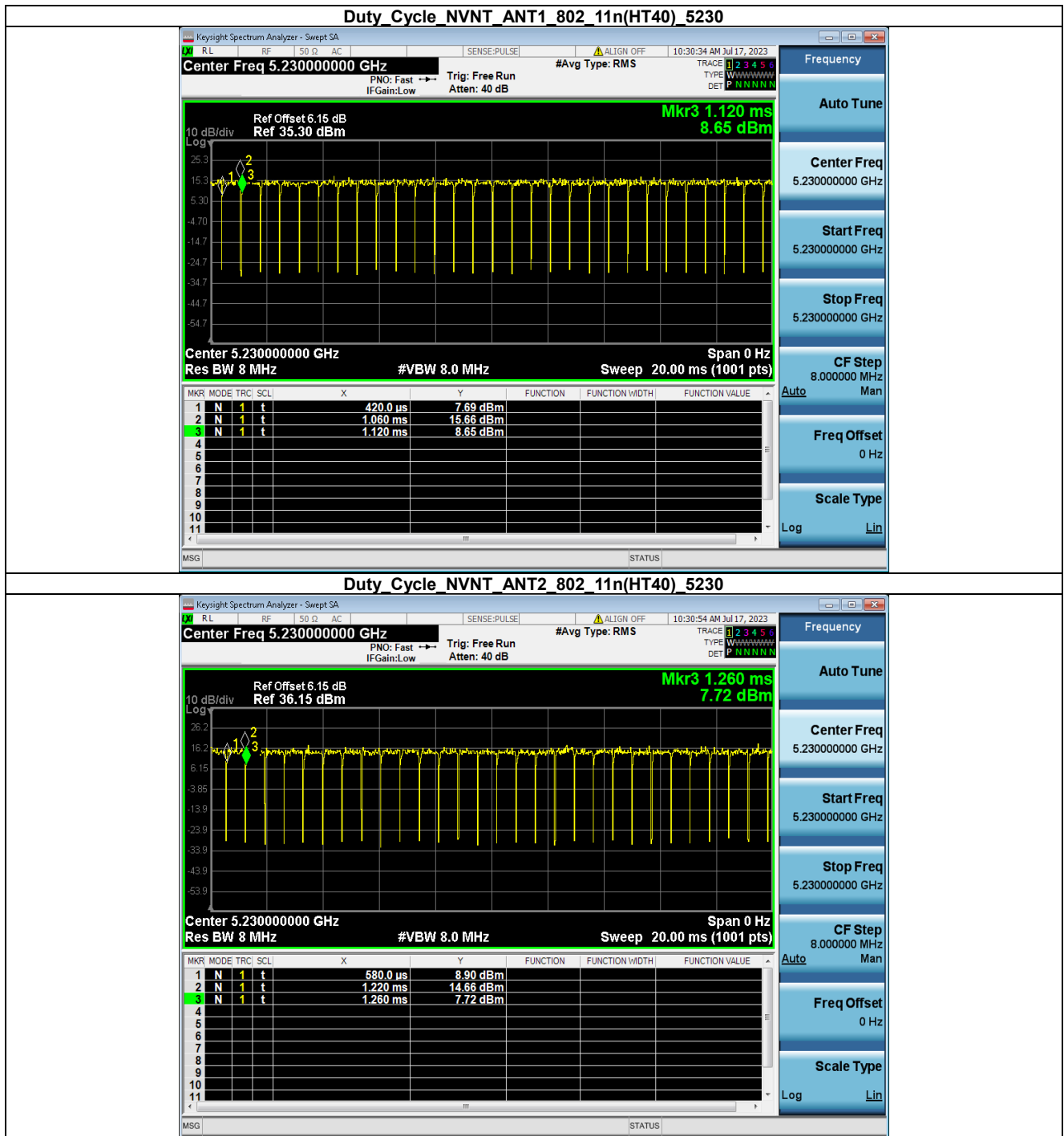


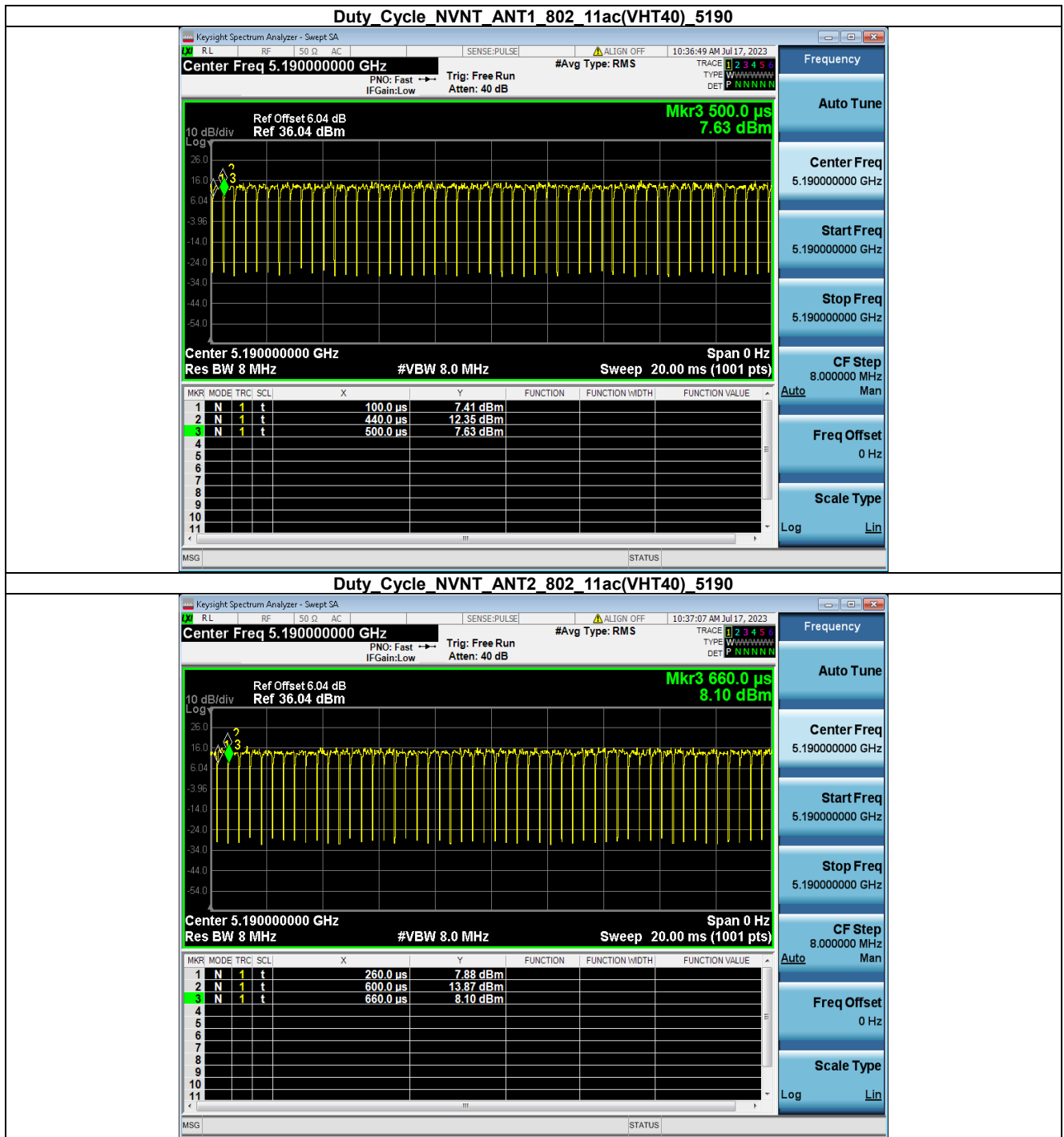


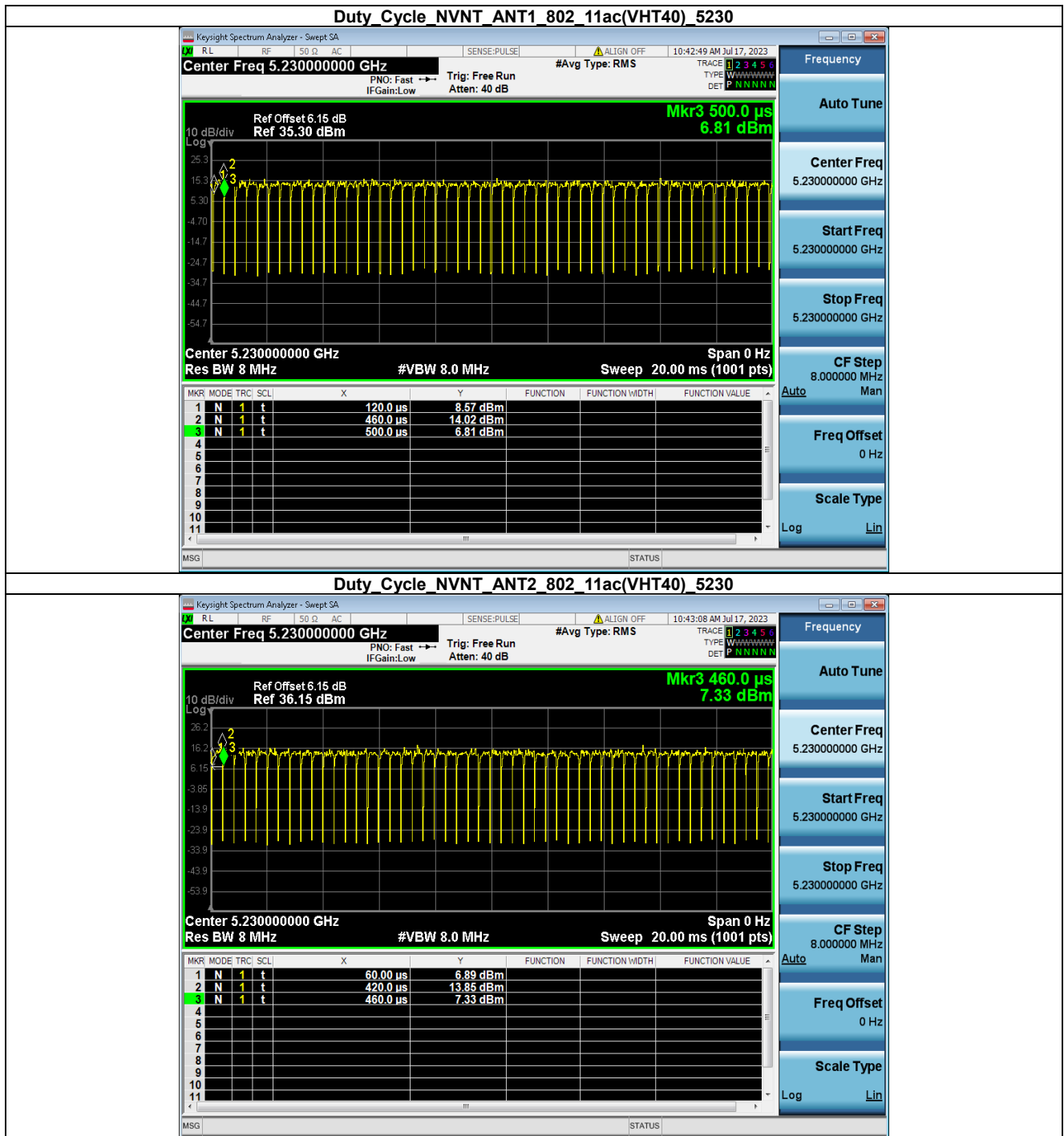


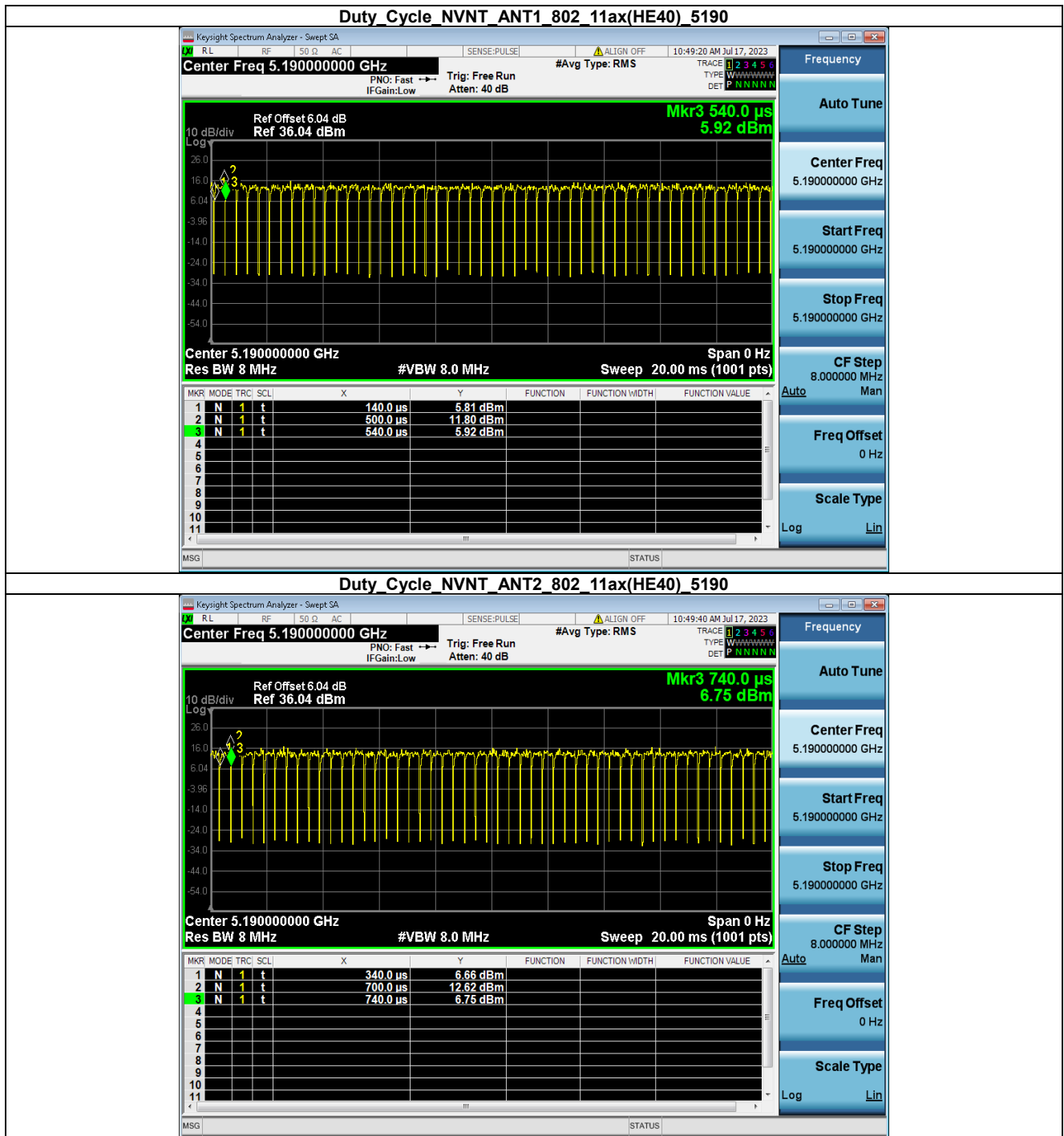


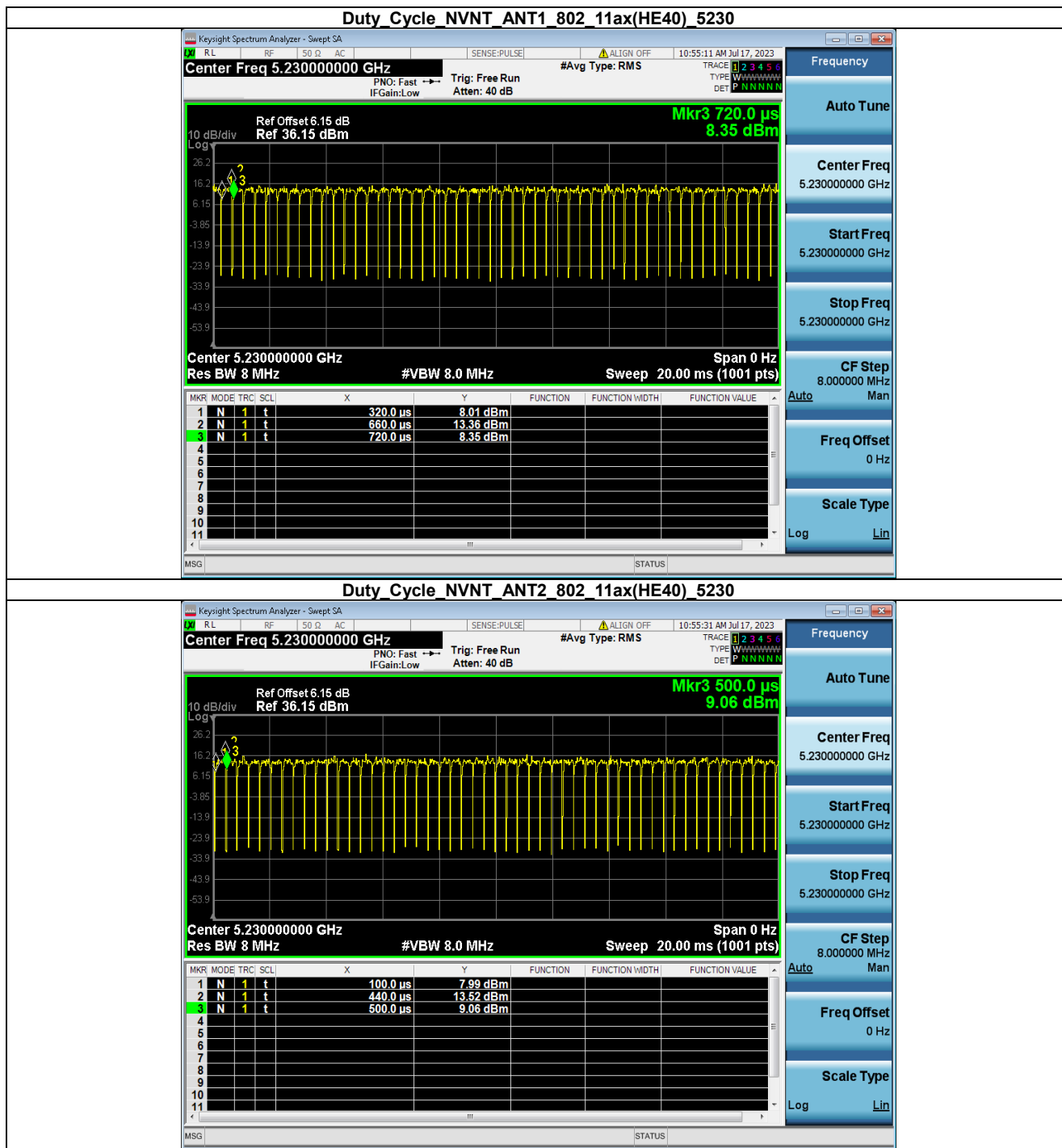


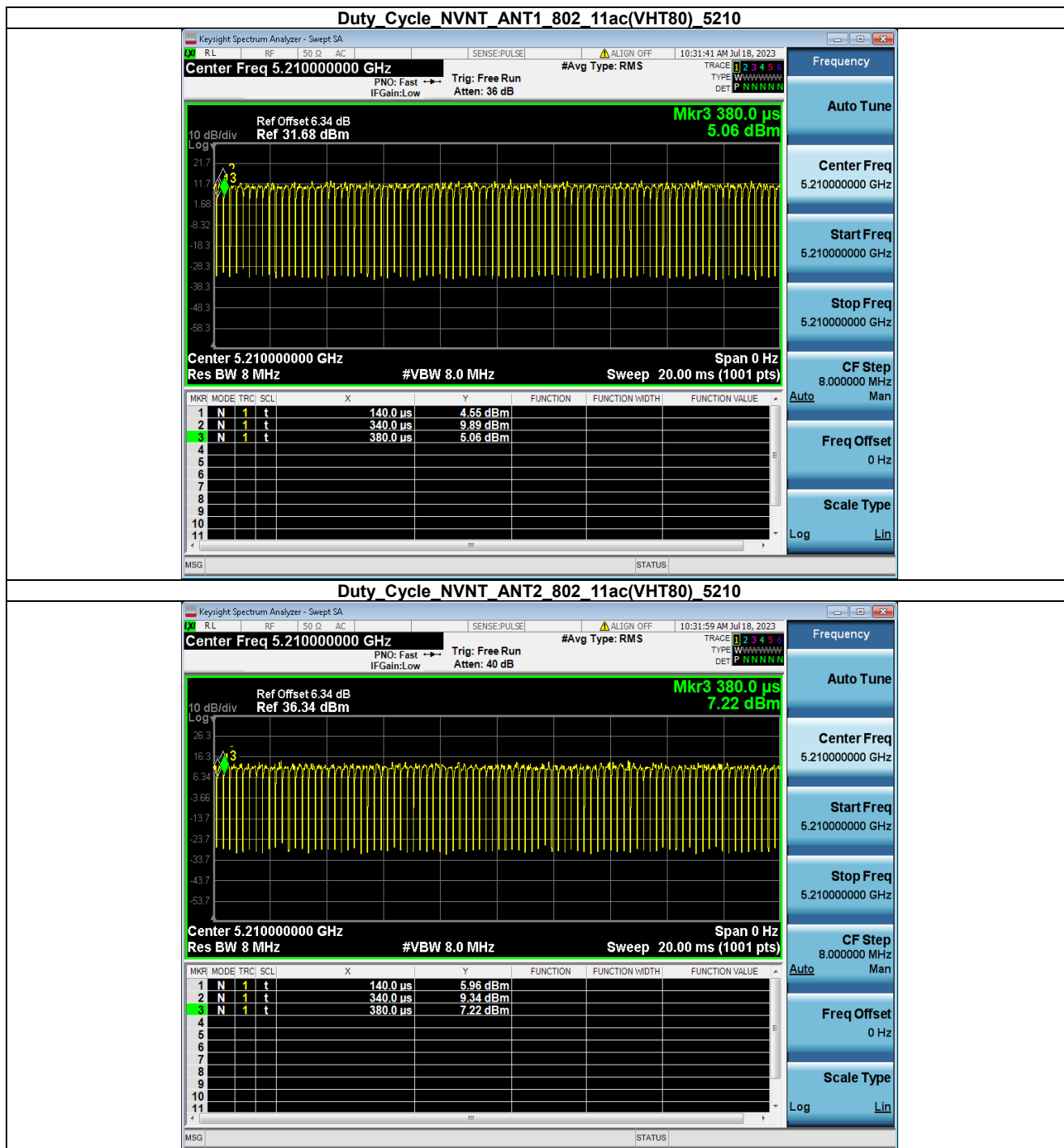


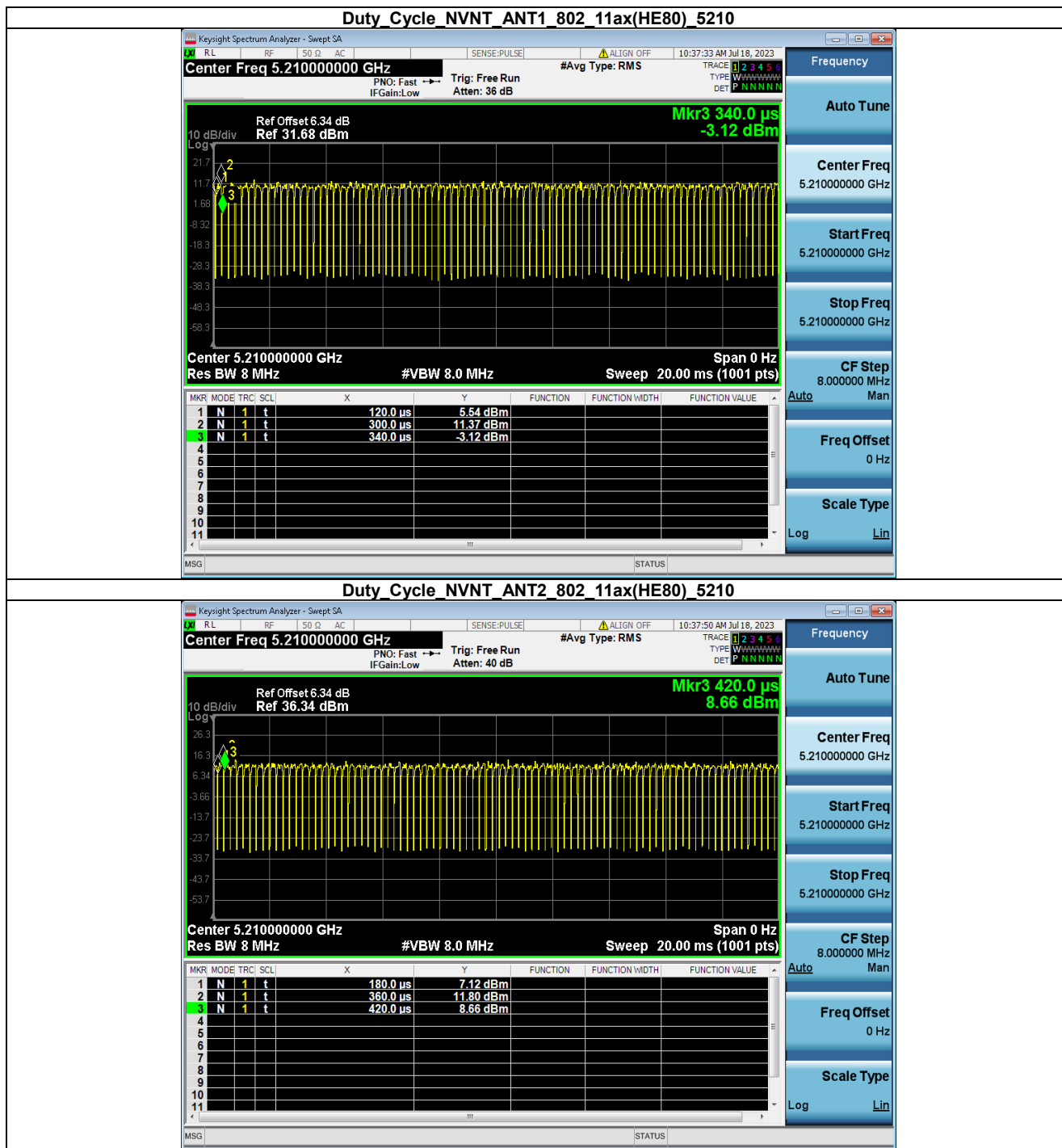












Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	13.38	0.18	13.56	24	Pass
NVNT	ANT2	802.11a	5180.00	14.21	0.18	14.39	24	Pass
NVNT	ANT1	802.11a	5200.00	13.78	0.18	13.96	24	Pass
NVNT	ANT2	802.11a	5200.00	14.09	0.18	14.27	24	Pass
NVNT	ANT1	802.11a	5240.00	13.73	0.12	13.85	24	Pass
NVNT	ANT2	802.11a	5240.00	13.99	0.12	14.11	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	11.18	0.13	11.31	24	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	12.11	0.13	12.24	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	12.09	0.20	12.29	24	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	12.31	0.20	12.51	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	11.78	0.13	11.91	24	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	12.17	0.13	12.30	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	10.48	0.37	10.85	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	11.45	0.25	11.70	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	11.38	0.37	11.75	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	11.64	0.37	12.01	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	11.15	0.37	11.52	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	11.42	0.25	11.67	24	Pass
NVNT	ANT1	802.11ax(HE20)	5180.00	10.02	0.25	10.27	24	Pass
NVNT	ANT2	802.11ax(HE20)	5180.00	10.94	0.37	11.31	24	Pass
NVNT	ANT1	802.11ax(HE20)	5200.00	10.94	0.25	11.19	24	Pass
NVNT	ANT2	802.11ax(HE20)	5200.00	11.22	0.25	11.47	24	Pass
NVNT	ANT1	802.11ax(HE20)	5240.00	10.66	0.25	10.91	24	Pass
NVNT	ANT2	802.11ax(HE20)	5240.00	10.92	0.25	11.17	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	11.85	0.26	12.11	24	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	12.49	0.39	12.88	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	12.33	0.39	12.72	24	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	12.57	0.26	12.83	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	11.07	0.71	11.78	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	11.69	0.71	12.40	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	11.43	0.48	11.91	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	11.67	0.46	12.13	24	Pass
NVNT	ANT1	802.11ax(HE40)	5190.00	10.66	0.46	11.12	24	Pass
NVNT	ANT2	802.11ax(HE40)	5190.00	11.23	0.46	11.69	24	Pass
NVNT	ANT1	802.11ax(HE40)	5230.00	10.99	0.71	11.70	24	Pass
NVNT	ANT2	802.11ax(HE40)	5230.00	11.25	0.71	11.96	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	10.94	0.79	11.73	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	11.35	0.79	12.14	24	Pass
NVNT	ANT1	802.11ax(HE80)	5210.00	10.79	0.87	11.66	24	Pass
NVNT	ANT2	802.11ax(HE80)	5210.00	11.07	1.25	12.32	24	Pass

MIMO_Conducted Power = ANT1_Conducted Power + ANT2_Conducted Power

$W=10^{\frac{(P(dBm)-30)}{10}}$

$dBm = 10\log[P(mw)/1mw]$

Condition	Antenna	Mode	Frequency(MHz)	MIMO_Conducted_Power(dBm)	Limit(dBm)	Result
NVNT	MIMO_TX	802.11n(HT20)	5180.00	14.68	22.98	Pass
NVNT	MIMO_TX	802.11n(HT20)	5200.00	15.21	22.98	Pass
NVNT	MIMO_TX	802.11n(HT20)	5240.00	14.99	22.98	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5180.00	14.00	22.98	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5200.00	14.53	22.98	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5240.00	14.30	22.98	Pass
NVNT	MIMO_TX	802.11ax(HE20)	5180.00	13.51	22.98	Pass
NVNT	MIMO_TX	802.11ax(HE20)	5200.00	14.09	22.98	Pass
NVNT	MIMO_TX	802.11ax(HE20)	5240.00	13.80	22.98	Pass
NVNT	MIMO_TX	802.11n(HT40)	5190.00	15.19	22.98	Pass
NVNT	MIMO_TX	802.11n(HT40)	5230.00	15.46	22.98	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5190.00	14.40	22.98	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5230.00	14.56	22.98	Pass
NVNT	MIMO_TX	802.11ax(HE40)	5190.00	13.97	22.98	Pass
NVNT	MIMO_TX	802.11ax(HE40)	5230.00	14.13	22.98	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5210.00	14.16	22.98	Pass
NVNT	MIMO_TX	802.11ax(HE80)	5210.00	13.94	22.98	Pass

Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	9.574	11	Pass
NVNT	ANT2	802.11a	5180.00	9.201	11	Pass
NVNT	ANT1	802.11a	5200.00	10.113	11	Pass
NVNT	ANT2	802.11a	5200.00	9.655	11	Pass
NVNT	ANT1	802.11a	5240.00	9.056	11	Pass
NVNT	ANT2	802.11a	5240.00	9.558	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	7.143	11	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	6.634	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	6.927	11	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	6.631	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	6.540	11	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	6.345	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	7.071	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	6.610	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	6.239	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	6.710	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	7.636	11	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	7.253	11	Pass
NVNT	ANT1	802.11ax(HE20)	5180.00	6.848	11	Pass
NVNT	ANT2	802.11ax(HE20)	5180.00	6.464	11	Pass
NVNT	ANT1	802.11ax(HE20)	5200.00	7.473	11	Pass
NVNT	ANT2	802.11ax(HE20)	5200.00	6.920	11	Pass
NVNT	ANT1	802.11ax(HE20)	5240.00	6.923	11	Pass
NVNT	ANT2	802.11ax(HE20)	5240.00	6.366	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5.178	11	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	4.872	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	6.542	11	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	4.576	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5.786	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	4.208	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	4.863	11	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	4.541	11	Pass
NVNT	ANT1	802.11ax(HE40)	5190.00	4.226	11	Pass
NVNT	ANT2	802.11ax(HE40)	5190.00	3.889	11	Pass
NVNT	ANT1	802.11ax(HE40)	5230.00	5.157	11	Pass
NVNT	ANT2	802.11ax(HE40)	5230.00	3.561	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	2.705	11	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	1.302	11	Pass
NVNT	ANT1	802.11ax(HE80)	5210.00	2.753	11	Pass
NVNT	ANT2	802.11ax(HE80)	5210.00	1.392	11	Pass

Note: The Duty Cycle Factor is compensated in the test result.



