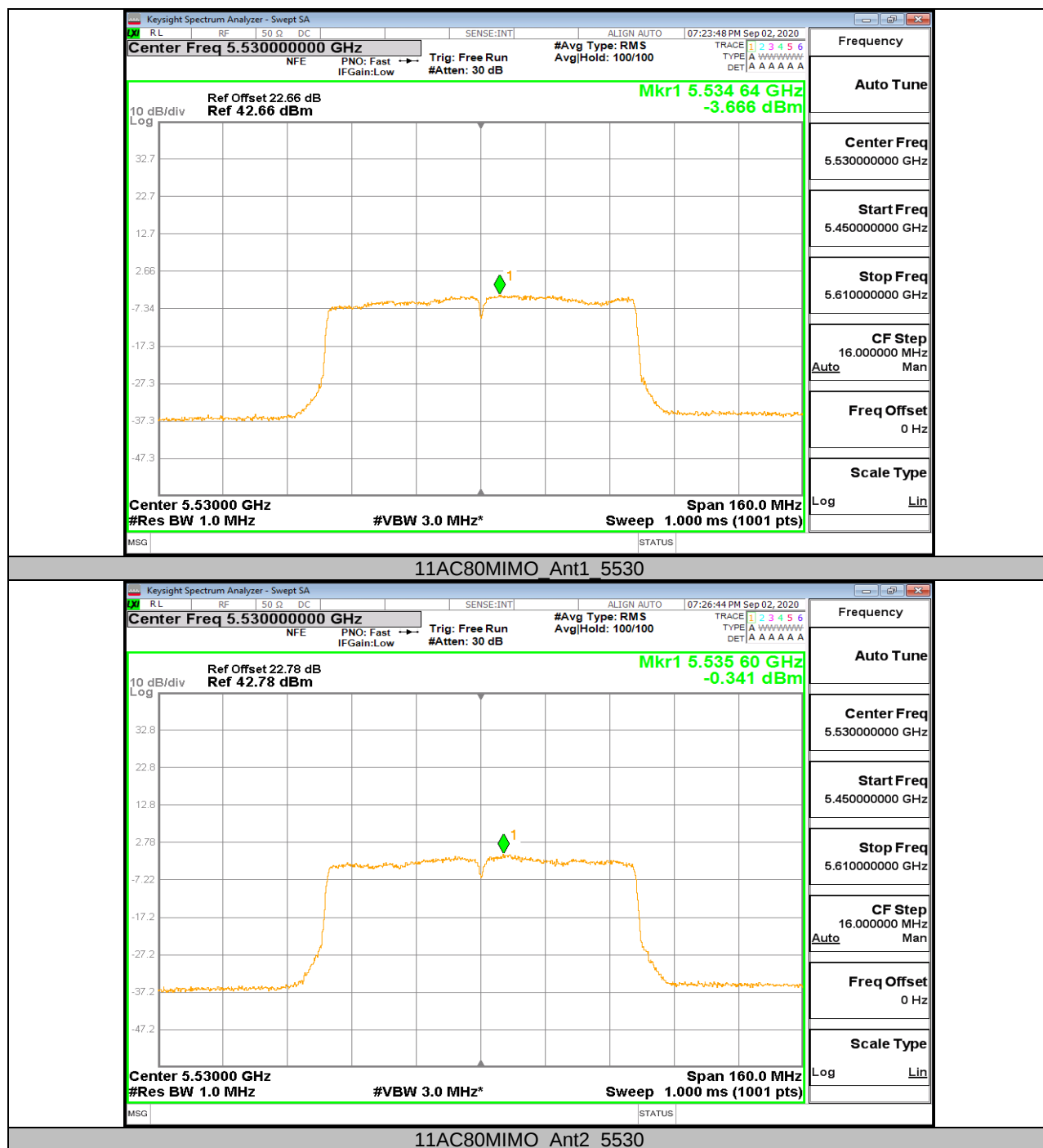
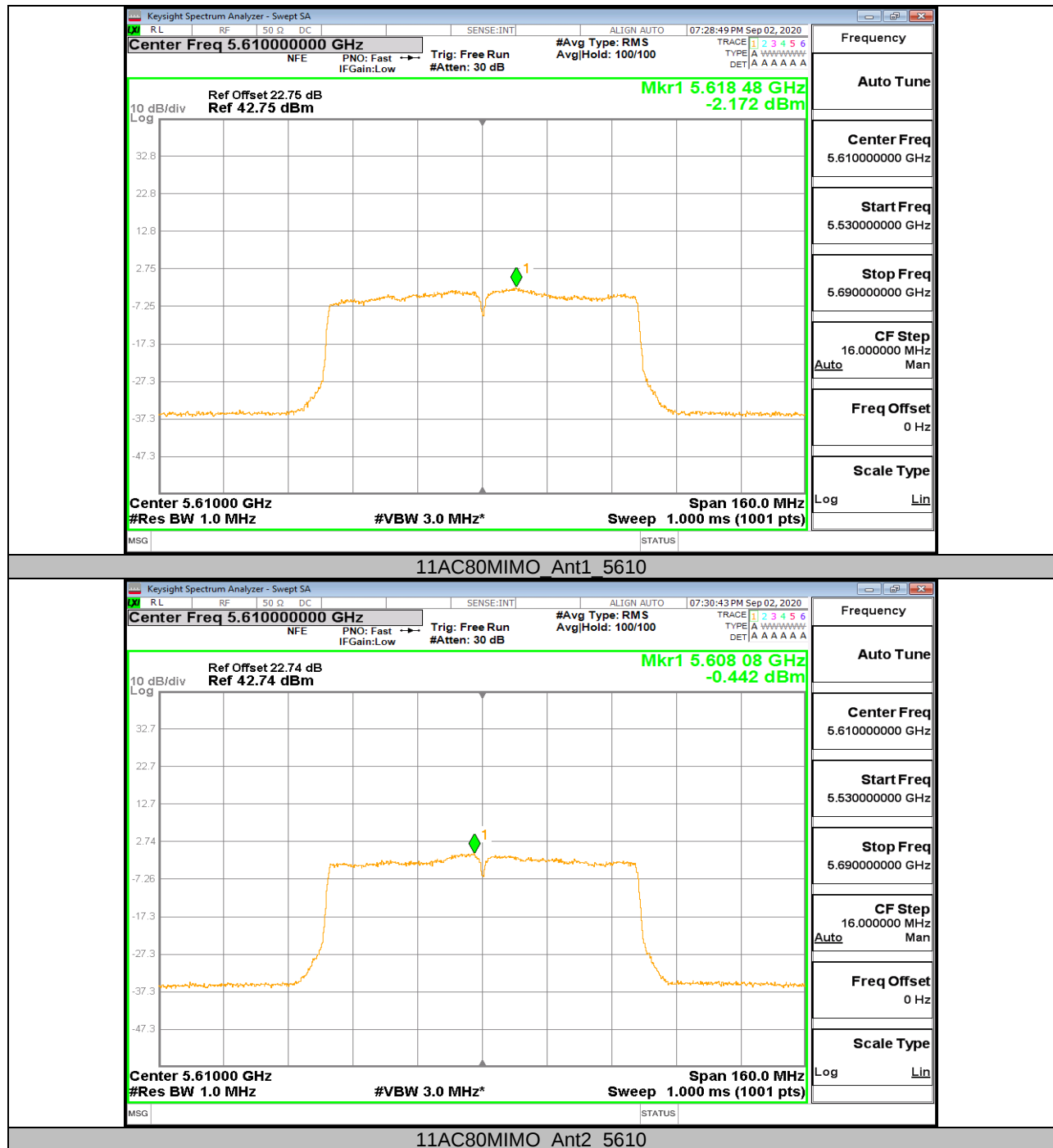
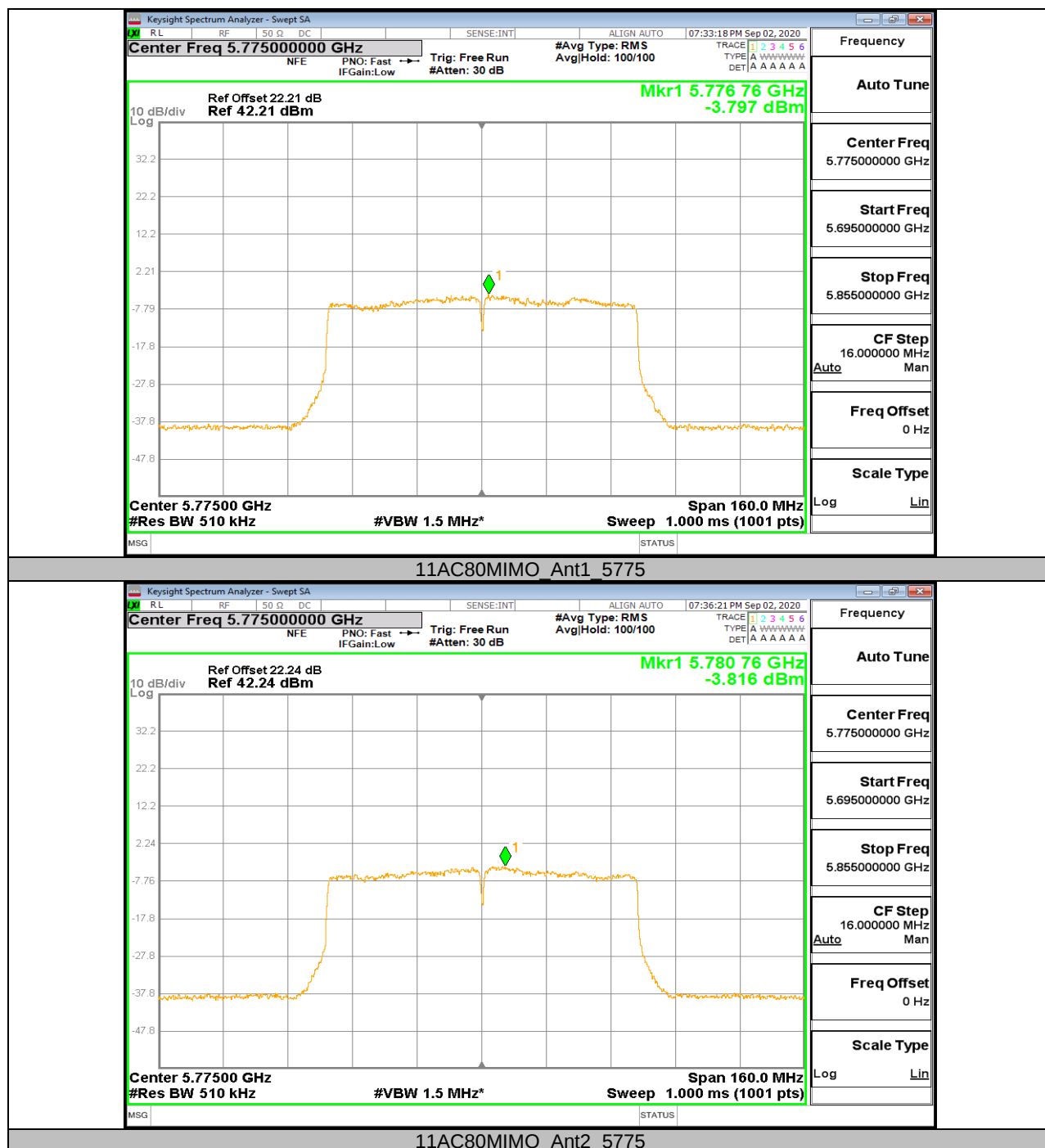










13.6. Appendix D: Duty Cycle

13.6.1. Test Result

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.341	1.439	0.932	93.2 %	0.306	0.75	1
11N20MIMO	1.258	1.354	0.929	92.9%	0.320	0.79	1
11N40MIMO	0.626	0.711	0.880	88.0 %	0.555	1.60	2
11AC80MIMO	0.314	0.408	0.770	77.0 %	1.135	3.18	4

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

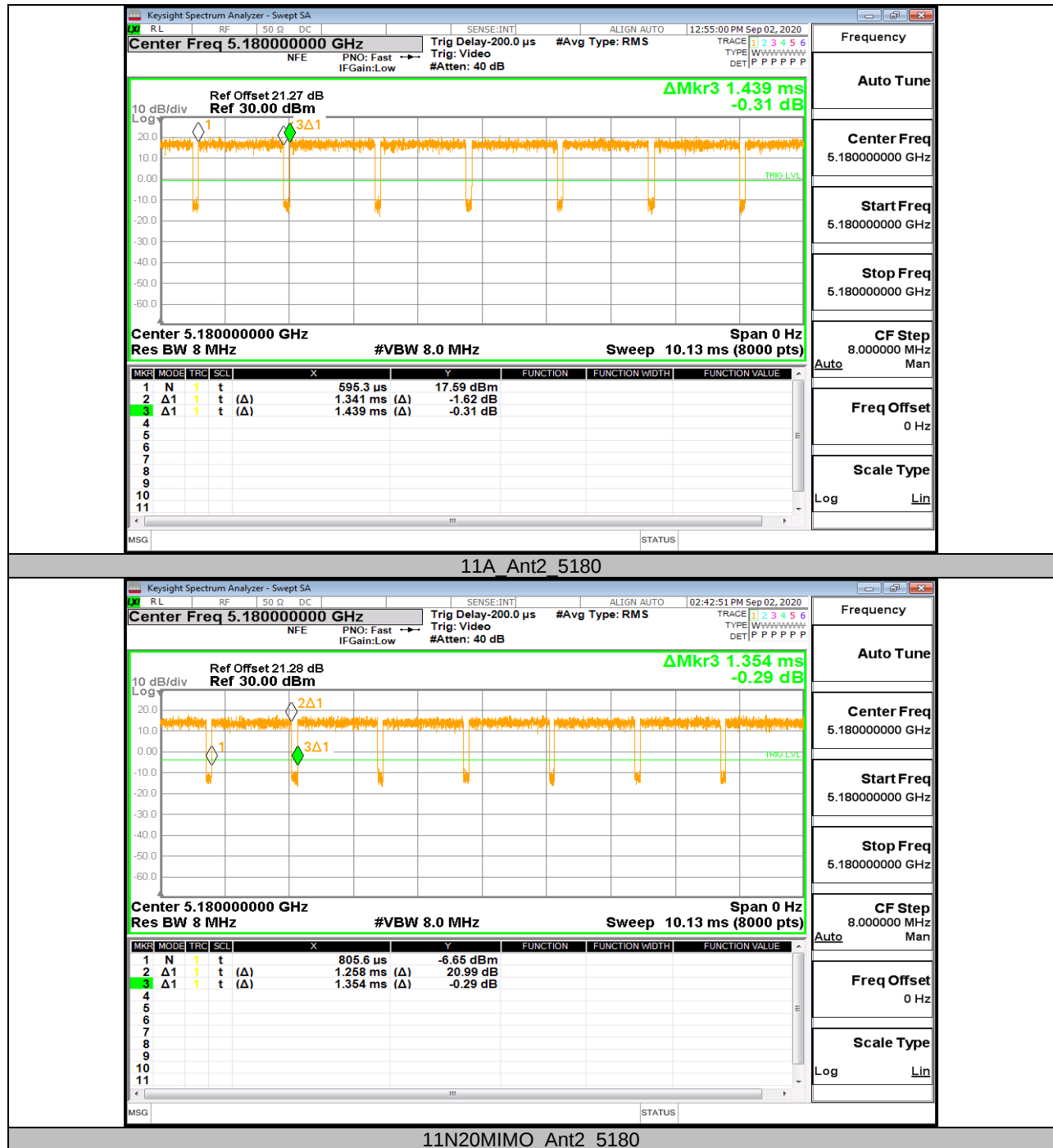
Where: x is Duty Cycle (Linear)

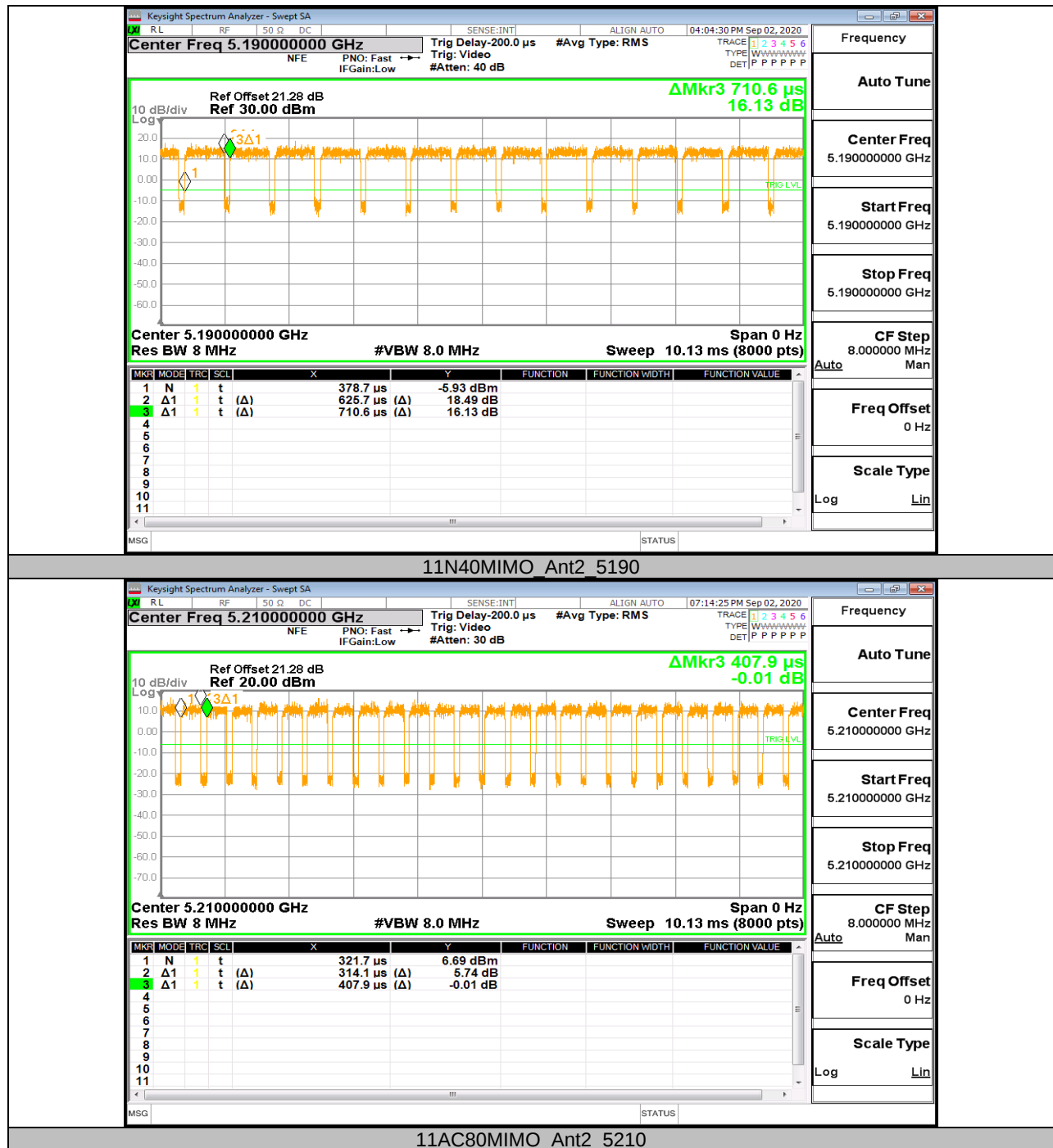
Where: T is On Time (transmit duration)

If that calculated VBW is not available on the analyzer then the next higher value should be used.



13.6.2. Test Graphs







13.7. Appendix E: Frequency Stability

Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T _N	V _L	5199.9956	-0.85	5200.0162	3.12	5199.9799	-3.86	5200.0184	3.54
T _N	V _N	5199.9911	-1.72	5200.0012	0.22	5199.9973	-0.53	5199.9793	-3.98
T _N	V _H	5199.9758	-4.66	5199.9830	-3.28	5200.0155	2.97	5199.9889	-2.13
Frequency Error vs. Temperature									
802.11a: 5200 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V _N	5199.9803	-3.79	5199.9883	-2.26	5199.9787	-4.10	5200.0189	3.63
30	V _N	5200.0076	1.47	5200.0181	3.49	5199.9877	-2.37	5199.9952	-0.93
20	V _N	5200.0237	4.56	5200.0079	1.51	5199.9815	-3.56	5199.9879	-2.32
10	V _N	5199.9874	-2.43	5200.0154	2.96	5199.9911	-1.72	5200.0208	4.00
0	V _N	5200.0198	3.81	5199.9972	-0.55	5200.0042	0.81	5200.0123	2.36

Frequency Error vs. Voltage									
802.11a: 5825 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T _N	V _L	5825. 0193	3.32	5824. 9802	-3.40	5824. 9888	-1.93	5824. 9998	-0.04
T _N	V _N	5825. 0228	3.91	5825. 0110	1.88	5825. 0142	2.44	5824. 9845	-2.66
T _N	V _H	5825. 0050	0.86	5824. 9848	-2.62	5825. 0229	3.93	5825. 0150	2.57
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V _N	5825.04312	7.40	5825.04873	8.37	5825.04964	8.52	5825.05235	8.99
30	V _N	5825.03971	6.82	5825.045466	7.81	5825.04833	8.30	5825.04944	8.49
20	V _N	5825.03477	5.97	5825.04087	7.02	5825.04789	8.22	5825.04476	7.68
10	V _N	5825.03255	5.59	5825.03577	6.14	5825.04211	7.23	5825.03997	6.86
0	V _N	5825.02911	5.00	5825.03412	5.86	5825.03579	6.14	5825.03744	6.43

Note: All the modes have been tested, only the worst data was recorded in the report.

END OF REPORT