





11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



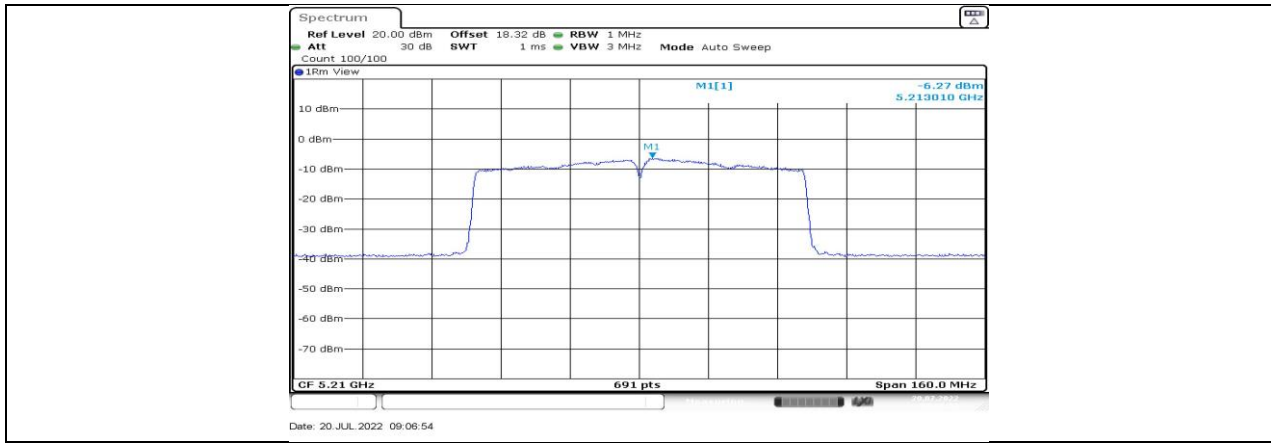
11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



11.6. APPENDIX D: FREQUENCY STABILITY
11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a20:5200MHz									
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)
TN	VL	5200.0244	4.70	5200.0192	3.69	5200.0110	2.12	5200.0077	1.48
TN	VN	5199.9809	-3.68	5200.0019	0.37	5199.9897	-1.98	5199.9931	-1.33
TN	VH	5200.0163	3.13	5199.9775	-4.32	5200.0053	1.01	5199.9908	-1.76
Frequency Error vs. Temperature									
802.11a20:5200MHz									
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)
40	VN	5200.0147	2.84	5199.9833	-3.21	5199.9802	-3.81	5200.0106	2.03
30	VN	5199.9784	-4.14	5200.0214	4.12	5199.9868	-2.55	5200.0232	4.47
20	VN	5199.9752	-4.77	5200.0227	4.36	5200.0231	4.44	5199.9945	-1.06
10	VN	5199.9776	-4.30	5199.9880	-2.30	5199.9856	-2.78	5200.0248	4.76
0	VN	5199.9924	-1.46	5200.0192	3.68	5199.9946	-1.04	5200.0195	3.76



Frequency Error vs. Voltage									
802.11a20:5825MHz									
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)
TN	VL	5825.0010	0.17	5825.0182	3.13	5825.0016	0.28	5825.0091	1.56
TN	VN	5825.0101	1.74	5824.9993	-0.12	5824.9985	-0.27	5825.0086	1.47
TN	VH	5825.0061	1.05	5824.9924	-1.31	5825.0049	0.85	5824.9781	-3.75
Frequency Error vs. Temperature									
802.11a20:5825MHz									
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	VN	5825.0020	0.34	5824.9949	-0.87	5824.9807	-3.31	5824.9856	-2.46
30	VN	5824.9798	-3.47	5824.9837	-2.80	5825.0014	0.24	5824.9792	-3.57
20	VN	5824.9978	-0.38	5824.9965	-0.60	5825.0077	1.32	5825.0225	3.87
10	VN	5825.0001	0.01	5825.0031	0.54	5824.9930	-1.20	5825.0077	1.33
0	VN	5824.9822	-3.06	5825.0021	0.36	5825.0234	4.02	5824.9891	-1.87

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.



11.7. APPENDIX E: DUTY CYCLE

11.7.1. 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	1.38	1.44	0.9583	95.83	0.18	0.72	0.01
11N20MIMO	1.29	1.35	0.9556	95.56	0.20	0.78	1
11N40MIMO	0.64	0.7	0.9143	91.43	0.39	1.56	2
11AC80MIMO	0.18	0.24	0.7500	75.00	1.25	5.56	10

Note:

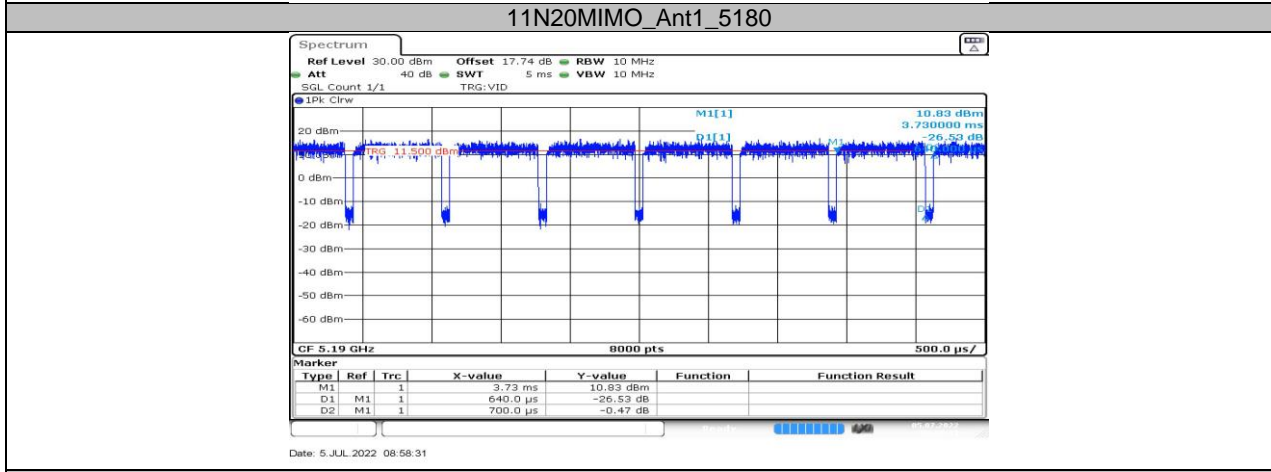
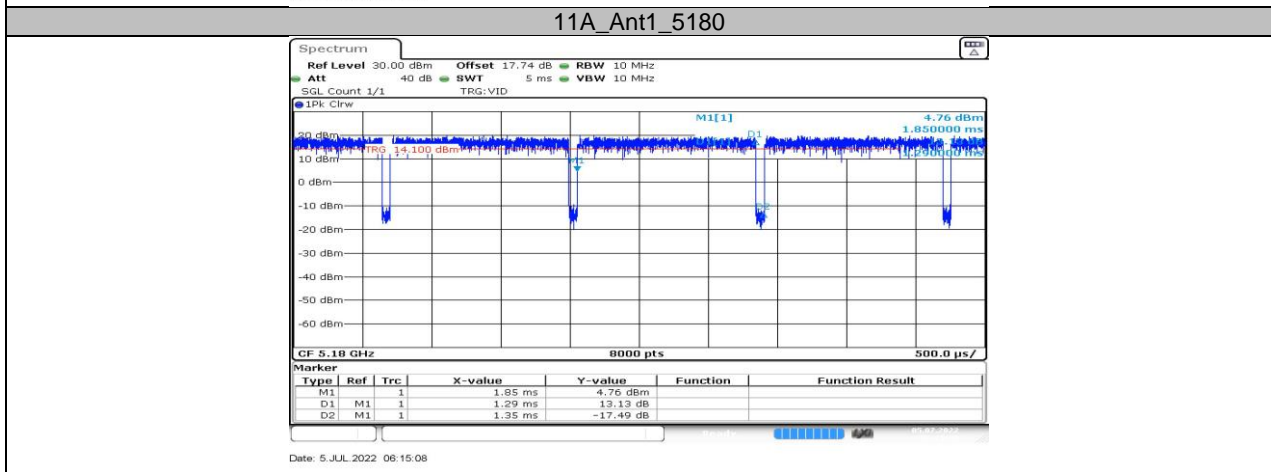
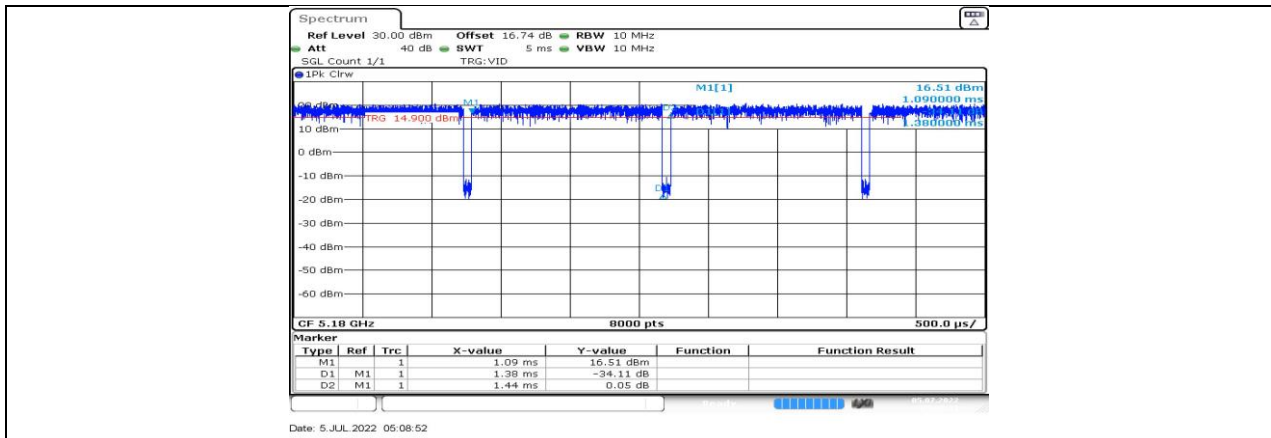
Duty Cycle Correction Factor=10log (1/x).

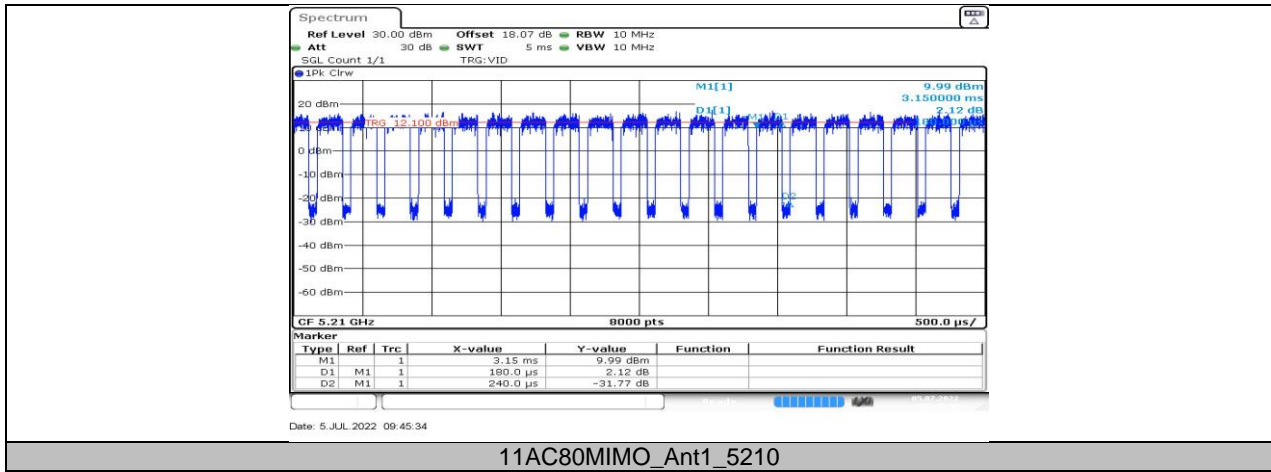
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

11.7.2. Test Graphs





END OF REPORT