





























## Appendix G: Frequency Stability

Frequency Error vs. Voltage									
802.11a:5180MHz									
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	5180.0091	1.76	5179.9988	-0.24	5179.9862	-2.67	5180.0022	0.43
TN	VN	5180.0207	3.99	5180.0153	2.96	5179.9773	-4.38	5180.0035	0.68
TN	VH	5180.0204	3.94	5179.9947	-1.03	5180.0115	2.22	5179.9820	-3.48

  

Frequency Error vs. Temperature									
802.11a:5180MHz									
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)
60	VN	5180.0107	2.07	5180.0123	2.37	5179.9864	-2.62	5179.9981	-0.37
50	VN	5179.9889	-2.15	5179.9813	-3.61	5180.0042	0.81	5180.0161	3.10
40	VN	5179.9887	-2.17	5179.9795	-3.95	5180.0149	2.88	5180.0056	1.08
30	VN	5180.0018	0.34	5180.0061	1.19	5179.9959	-0.78	5180.0120	2.32
20	VN	5179.9838	-3.12	5180.0230	4.43	5179.9827	-3.35	5180.0123	2.38
10	VN	5179.9923	-1.49	5180.0017	0.32	5180.0238	4.59	5180.0018	0.34
0	VN	5179.9984	-0.31	5180.0014	0.27	5179.9905	-1.84	5180.0053	1.02
-10	VN	5179.9922	-1.51	5180.0108	2.08	5179.9912	-1.70	5180.0180	3.48
-20	VN	5179.9853	-2.84	5179.9987	-0.25	5180.0028	0.55	5180.0158	3.05
-30	VN	5179.9865	-2.60	5180.0242	4.68	5179.9805	-3.77	5179.9856	-2.77

**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.

Frequency Error vs. Voltage									
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)
TN	VL	5824.9890	-1.90	5825.0032	0.55	5825.0190	3.26	5825.0130	2.24
TN	VN	5824.9772	-3.92	5825.0163	2.80	5825.0016	0.27	5825.0123	2.11
TN	VH	5825.0111	1.91	5824.9761	-4.11	5825.0181	3.11	5825.0220	3.78

  

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)
60	VN	5825.0002	0.03	5824.9813	-3.22	5824.9871	-2.21	5824.9769	-3.96
50	VN	5825.0063	1.08	5824.9975	-0.43	5825.0223	3.83	5824.9973	-0.47
40	VN	5825.0038	0.64	5825.0020	0.35	5824.9771	-3.93	5825.0039	0.67
30	VN	5825.0064	1.09	5824.9961	-0.67	5824.9873	-2.18	5825.0110	1.89
20	VN	5824.9857	-2.46	5825.0237	4.08	5825.0240	4.11	5824.9909	-1.57
10	VN	5824.9806	-3.32	5825.0114	1.96	5825.0182	3.12	5824.9931	-1.18
0	VN	5824.9867	-2.29	5825.0053	0.92	5824.9941	-1.02	5824.9959	-0.70
-10	VN	5824.9798	-3.46	5824.9770	-3.94	5825.0081	1.38	5824.9992	-0.14
-20	VN	5825.0233	4.00	5824.9905	-1.63	5825.0110	1.89	5825.0189	3.25
-30	VN	5825.0002	0.03	5824.9813	-3.22	5824.9871	-2.21	5824.9769	-3.96

**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.

---

**END OF REPORT**