



## 11.6. Appendix D: Duty Cycle 11.6.1. 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 20	1.39	1.44	0.9653	96.53	0.15	0.72	1
11N20MIMO	1.30	1.35	0.9630	96.30	0.16	0.77	1
11N40MIMO	0.65	0.69	0.9420	94.20	0.26	1.54	2
11AC80MIMO	0.18	0.23	0.7826	78.26	1.06	5.56	6

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

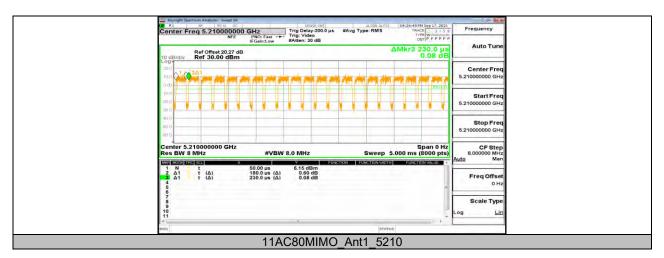
used.



### 11.6.2. Test Graphs









# 11.7. Appendix E: Frequency Stability 11.7.1. Test Result

	Frequency Error vs. Voltage										
802.11a 20:5200MHz											
_	0 Minute		ute	2 Minute		5 Minute		10 Minute			
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)		Tolerance (ppm)		
TN	VL	5200.04033	7.76	5200.03942	7.58	5200.04249	8.17	5200.04777	9.19		
TN	VN	5200.03657	7.03	5200.03033	5.83	5200.03758	7.23	5200.03369	6.48		
TN	VH	5200.03641	7.00	5200.04471	8.60	5200.04241	8.16	5200.04262	8.20		

#### Frequency Error vs. Temperature

#### 802.11a 20:5200MHz

_	W 16	0 Minute		2 Minute		5 Minute		10 Minute	
Temp.	Temp. Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5200.04289	8.25	5200.04233	8.14	5200.04841	9.31	5200.04922	9.47
60	VN	5200.03882	7.47	5200.04526	8.70	5200.04737	9.11	5200.04781	9.19
50	VN	5200.03772	7.25	5200.03844	7.39	5200.04322	8.31	5200.04432	8.52
40	VN	5200.03233	6.22	5200.03539	6.81	5200.03951	7.60	5200.03983	7.66
30	VN	5200.02984	5.74	5200.03141	6.04	5200.03668	7.05	5200.03775	7.26
20	VN	5200.02642	5.08	5200.02887	5.55	5200.02951	5.68	5200.03074	5.91
10	VN	5200.03222	6.20	5200.03252	6.25	5200.03549	6.83	5200.03881	7.46
0	VN	5200.03872	7.45	5200.03981	7.66	5200.03838	7.38	5200.04666	8.97



	Frequency Error vs. Voltage										
802.11a:5825MHz											
_		0 Mir	nute	2 Min	ute	5 Min	5 Minute		10 Minute		
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)		
TN	VL	5825.04461	7.66	5825.03769	6.47	5825.03751	6.44	5825.04251	7.30		
TN	VN	5825.02744	4.71	5825.02832	4.86	5825.02879	4.94	5825.03226	5.54		
TN	VH	5825.03739	6.42	5825.03365	5.78	5825.04142	7.11	5825.04448	7.64		
				Frequency	Error vs. Tem	perature					
				802	.11a:5825MH	z					
_		0 Mir	ute	2 Minute		5 Minute		10 Mir	nute		
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)		
60	VN	5825.04755	8.16	5825.04783	8.21	5825.04868	8.36	5825.05376	9.23		
50	VN	5825.03868	6.64	5825.04579	7.86	5825.04677	8.03	5825.04882	8.38		
40	VN	5825.03694	6.34	5825.04146	7.12	5825.04684	8.04	5825.04435	7.61		
30	VN	5825.03144	5.40	5825.03651	6.27	5825.04345	7.46	5825.03767	6.47		
30 20	VN VN	5825.03144 5825.02889	5.40 4.96	5825.03651 5825.03586	6.27 6.16	5825.04345 5825.03326	7.46 5.71	5825.03767 5825.03642	6.47 6.25		
					_						

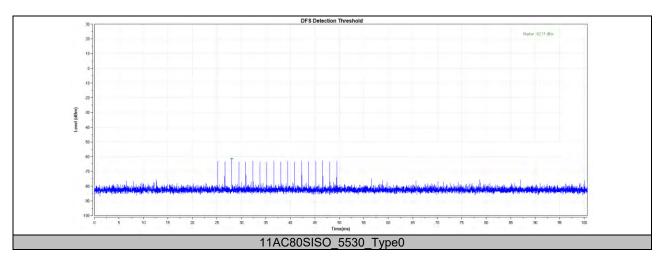
Note: All antennas and modes have been tested, only the worst data was recorded in the report.



## 11.1. Appendix F: Dynamic Frequency Selection

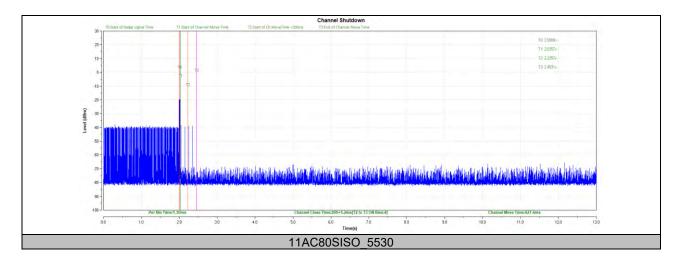
#### **DFS Detection Thresholds**

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.11	-59.70	PASS



## Cannel Move Time and Channel Closing Transmission Time

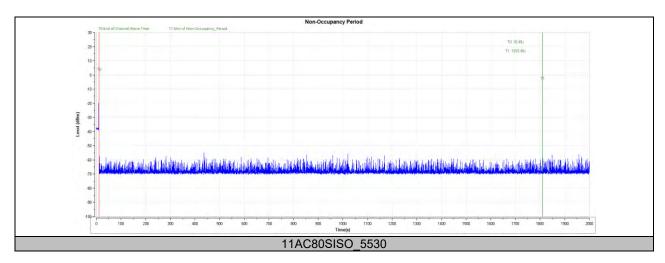
Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+5.2	200+60	427.4	10000	PASS





Non-Occupancy Period

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5530	see test graph	≥1800	PASS



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

**END OF REPORT**