

**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	5200.0219	4.20	5200.0119	2.29	5200.0030	0.57	5200.0042	0.80
TN	VN	5199.9997	-0.07	5199.9893	-2.05	5199.9943	-1.10	5200.0200	3.85
TN	VH	5200.0082	1.59	5200.0145	2.78	5200.0226	4.34	5200.0205	3.93
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)
70	VN	5200.0227	4.37	5200.0026	0.50	5199.9825	-3.36	5200.0108	2.08
60	VN	5199.9834	-3.20	5199.9888	-2.16	5199.9933	-1.29	5199.9758	-4.65
50	VN	5200.0000	-0.01	5200.0153	2.95	5200.0179	3.44	5199.9988	-0.23
40	VN	5199.9996	-0.08	5200.0023	0.45	5200.0192	3.70	5200.0204	3.93
30	VN	5199.9894	-2.05	5199.9753	-4.75	5199.9784	-4.16	5199.9871	-2.49
20	VN	5199.9770	-4.43	5199.9849	-2.91	5200.0007	0.13	5200.0013	0.25
10	VN	5199.9815	-3.55	5199.9820	-3.47	5199.9904	-1.84	5200.0043	0.84
0	VN	5199.9968	-0.61	5200.0192	3.69	5200.0184	3.55	5199.9993	-0.14



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	5824.9767	-3.99	5824.9904	-1.64	5825.0178	3.05	5824.9821	-3.06
TN	VN	5825.0246	4.22	5825.0027	0.46	5824.9879	-2.07	5825.0179	3.08
TN	VH	5825.0216	3.71	5824.9915	-1.47	5824.9929	-1.21	5825.0172	2.95
Frequency Error vs. Temperature									
802.11a20:825MHz									
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)
70	VN	5824.9936	-1.09	5824.9955	-0.77	5825.0129	2.22	5824.9849	-2.58
60	VN	5825.0204	3.51	5825.0133	2.29	5825.0116	2.00	5824.9860	-2.40
50	VN	5825.0012	0.21	5824.9869	-2.25	5825.0013	0.22	5824.9818	-3.12
40	VN	5825.0187	3.22	5824.9815	-3.18	5824.9884	-1.99	5825.0126	2.16
30	VN	5825.0185	3.18	5824.9932	-1.17	5824.9807	-3.32	5824.9836	-2.81
20	VN	5824.9847	-2.63	5825.0243	4.17	5824.9990	-0.16	5825.0048	0.82
10	VN	5824.9784	-3.71	5825.0047	0.80	5824.9942	-0.99	5824.9881	-2.05
0	VN	5825.0153	2.62	5824.9915	-1.45	5825.0143	2.46	5824.9876	-2.12

## 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 7.2 TEST ENVIRONMENT.



**11.7. APPENDIX E: DUTY CYCLE****11.7.1. Test Result**

Test 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	30	30	1.0000	100.00	0.00	NA	0.01
11N20MIMO	30	30	1.0000	100.00	0.00	NA	0.01
11N40MIMO	30	30	1.0000	100.00	0.00	NA	0.01
11AC80MIMO	30	30	1.0000	100.00	0.00	NA	0.01
11AX20MIMO	30	30	1.0000	100.00	0.00	NA	0.01
11AX40MIMO	30	30	1.0000	100.00	0.00	NA	0.01
11AX80MIMO	30	30	1.0000	100.00	0.00	NA	0.01

Note:

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

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.

If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW  $\leq$  RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

## 11.7.2. Test Graphs











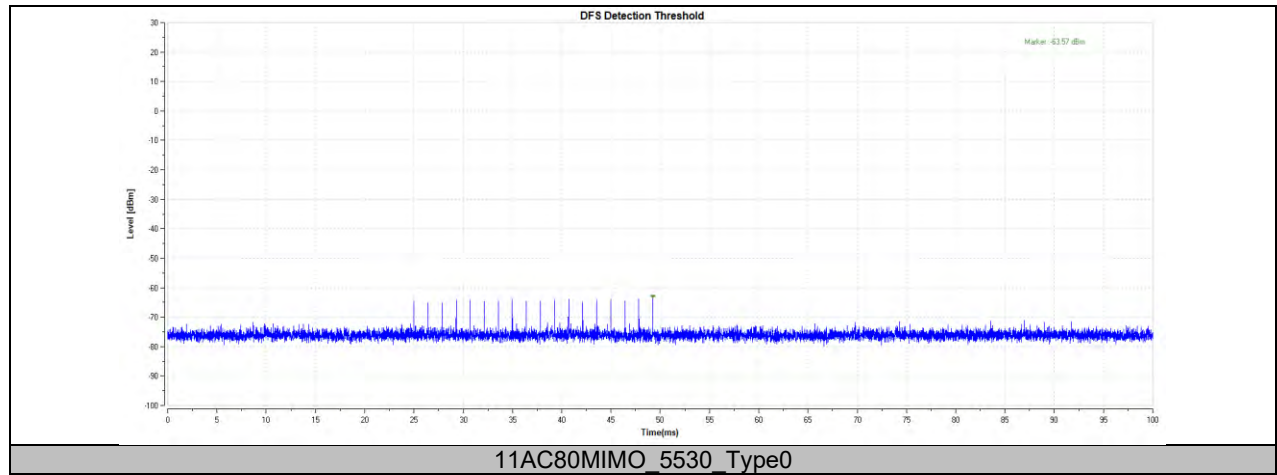
## 11.8. APPENDIX F: DFS DETECTION THRESHOLDS

### 11.8.1. Test Result

Test Mode	Channel	Radar Type	Result	Verdict
11AC80MIMO	5530	Type0	-63.57	PASS



## 11.8.2. Test Graphs





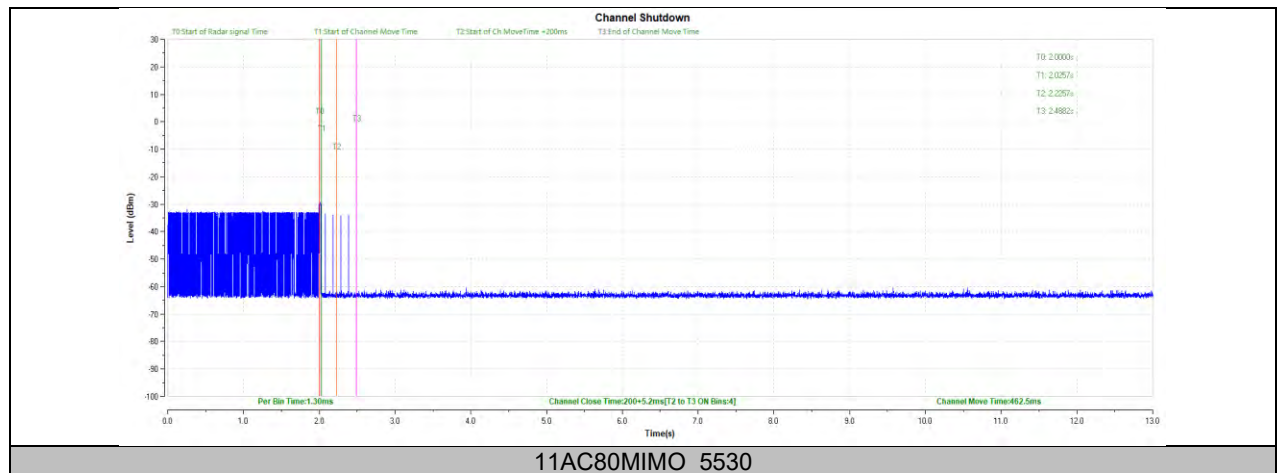
## 11.9. APPENDIX G: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

### 11.9.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80MIMO	5530	200+5.2	200+60	462.5	10000	PASS



## 11.9.2. Test Graphs







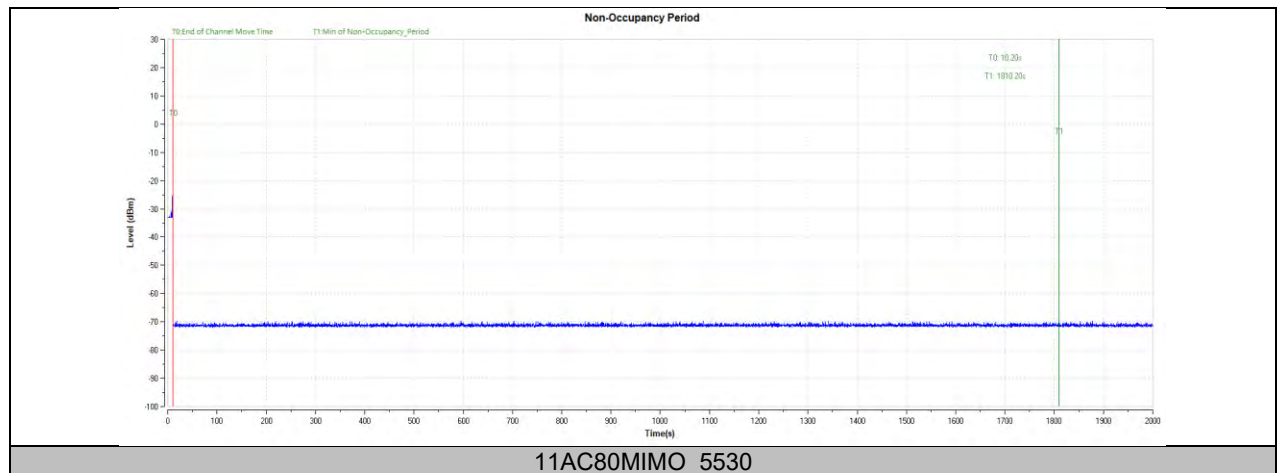
## 11.10. APPENDIX H: NON-OCCUPANCY PERIOD

### Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80MIMO	5530	see test graph	≥1800	PASS



### 11.10.1. Test Graphs



**END OF REPORT**