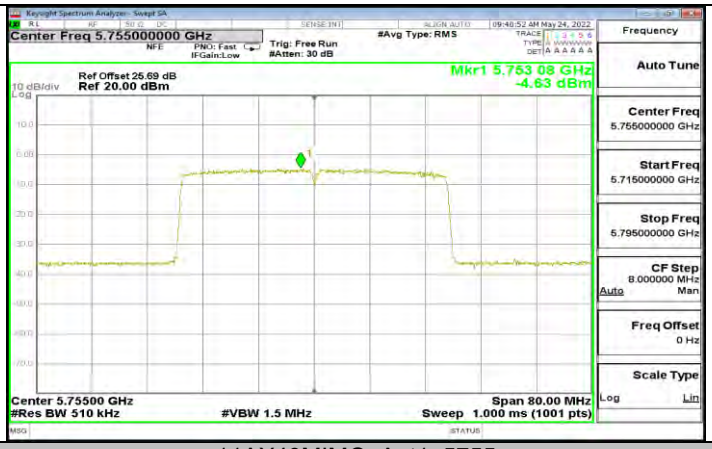
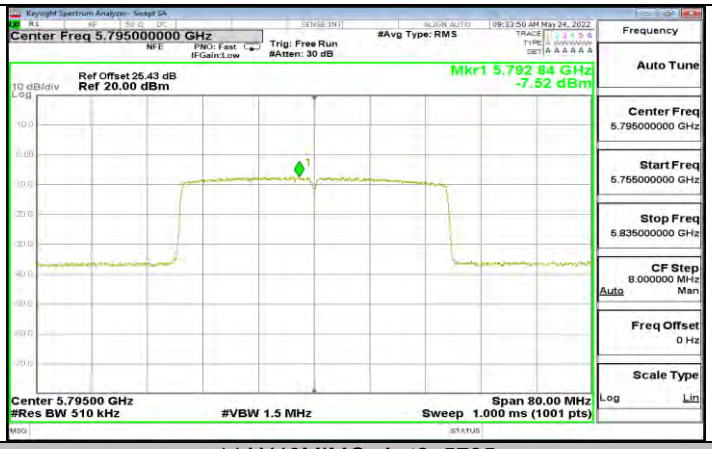


11AX40MIMO_Ant1_5755

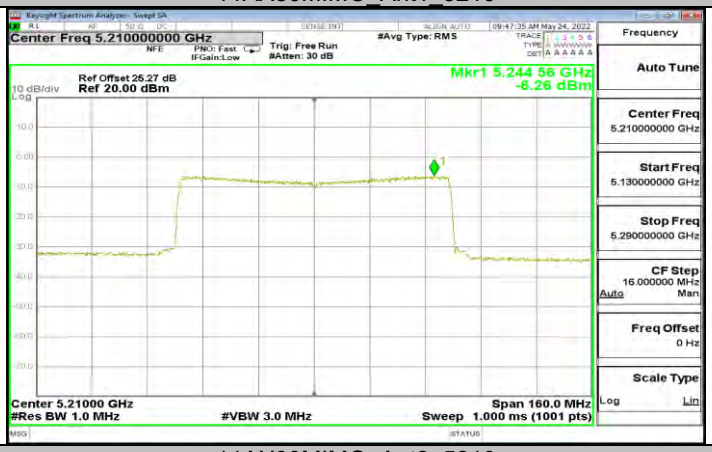
11AX40MIMO_Ant2_5755

11AX40MIMO_Ant1_5795

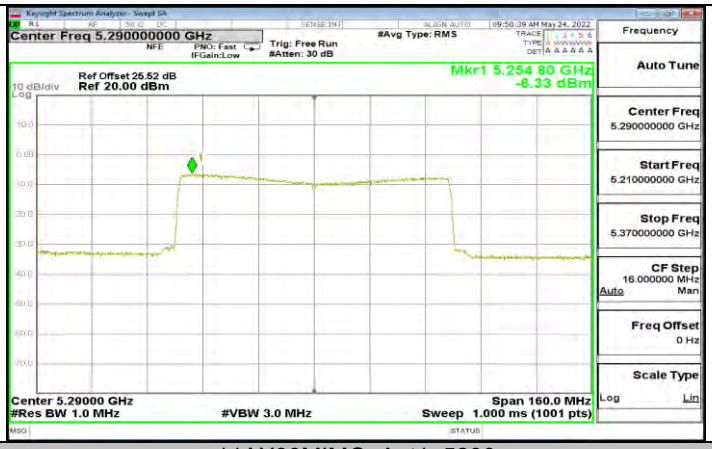


11AX40MIMO_Ant2_5795

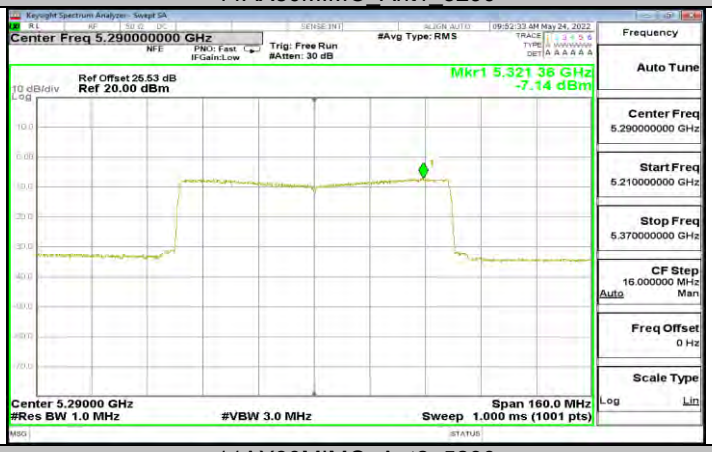
11AX80MIMO_Ant1_5210



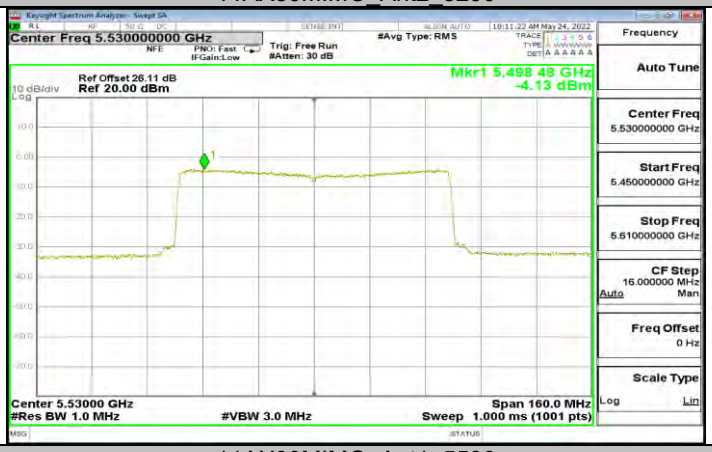
11AX80MIMO_Ant2_5210



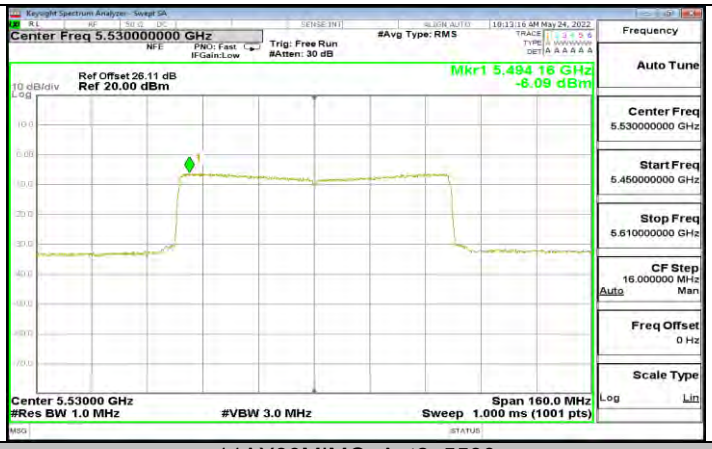
11AX80MIMO_Ant1_5290



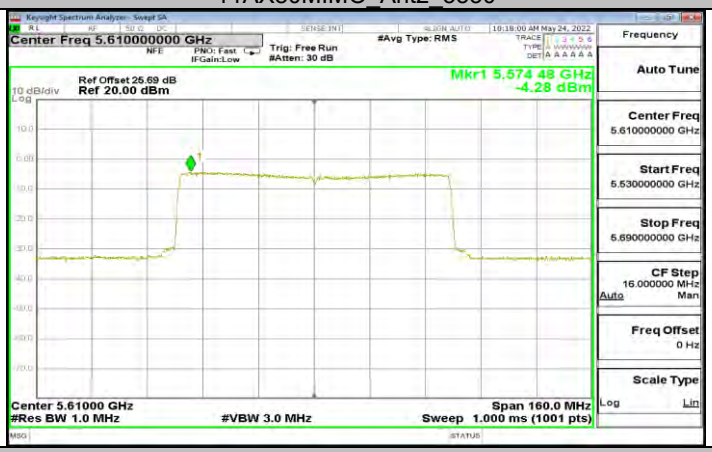
11AX80MIMO_Ant2_5290



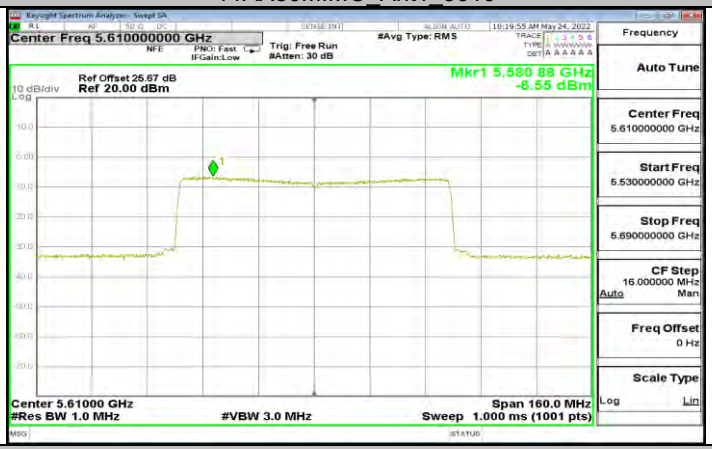
11AX80MIMO_Ant1_5530



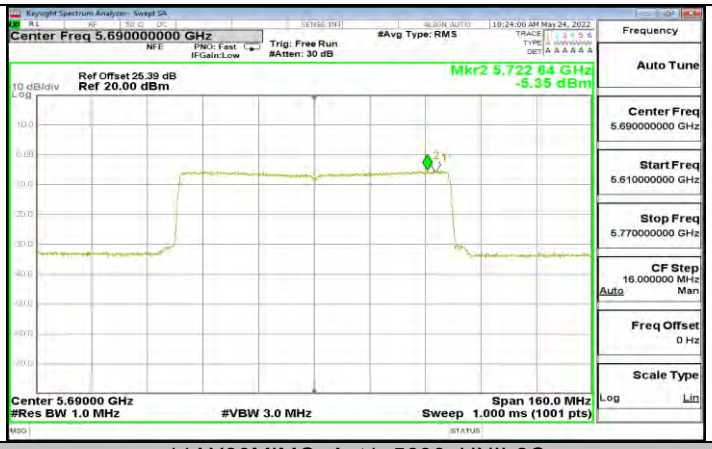
11AX80MIMO_Ant2_5530



11AX80MIMO_Ant1_5610



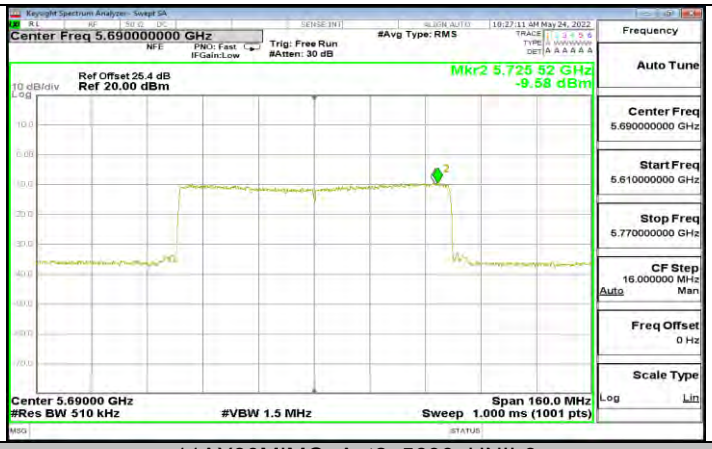
11AX80MIMO_Ant2_5610



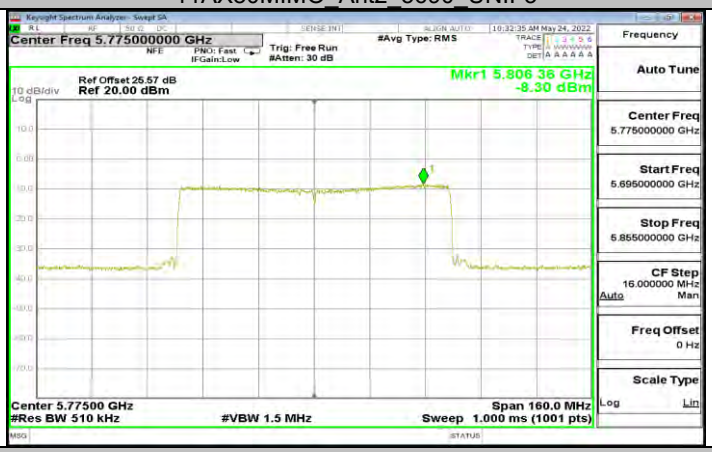
11AX80MIMO_Ant1_5690_UNII-2C

11AX80MIMO_Ant2_5690_UNII-2C

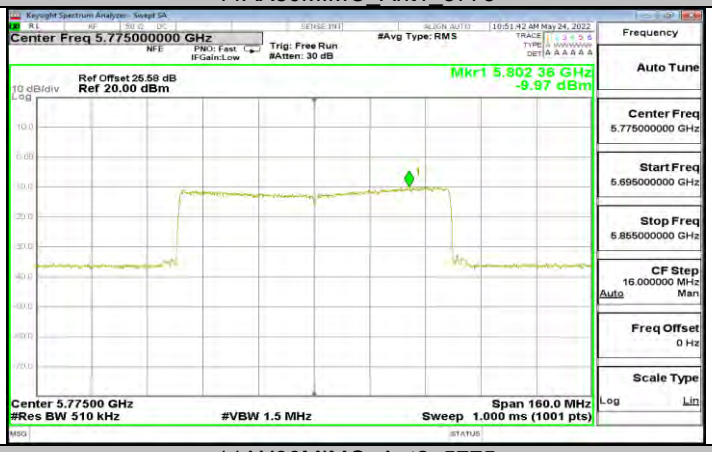
11AX80MIMO_Ant1_5690_UNII-3



11AX80MIMO_Ant2_5690_UNII-3



11AX80MIMO_Ant1_5775



11AX80MIMO_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	5200.0219	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.

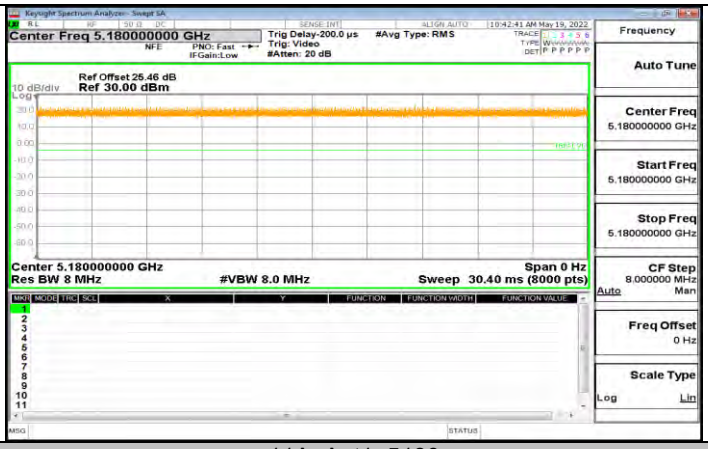
11.7. APPENDIX E: DUTY CYCLE

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

11.7.2. Test Graphs



11A_Ant1_5180

11N20MIMO_Ant1_5180

11N40MIMO_Ant1_5190

11AC80MIMO_Ant1_5210

11AX20MIMO_Ant1_5180

11AX40MIMO_Ant1_5190

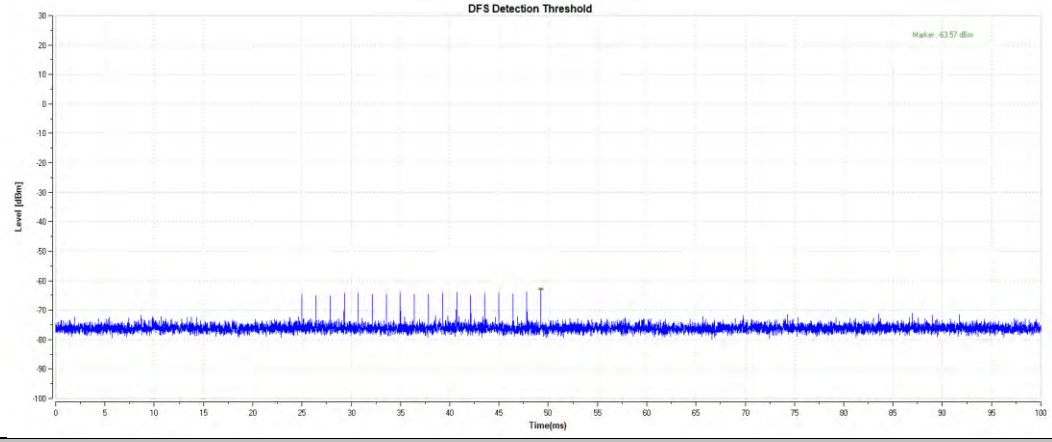
11AX80MIMO_Ant1_5210

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



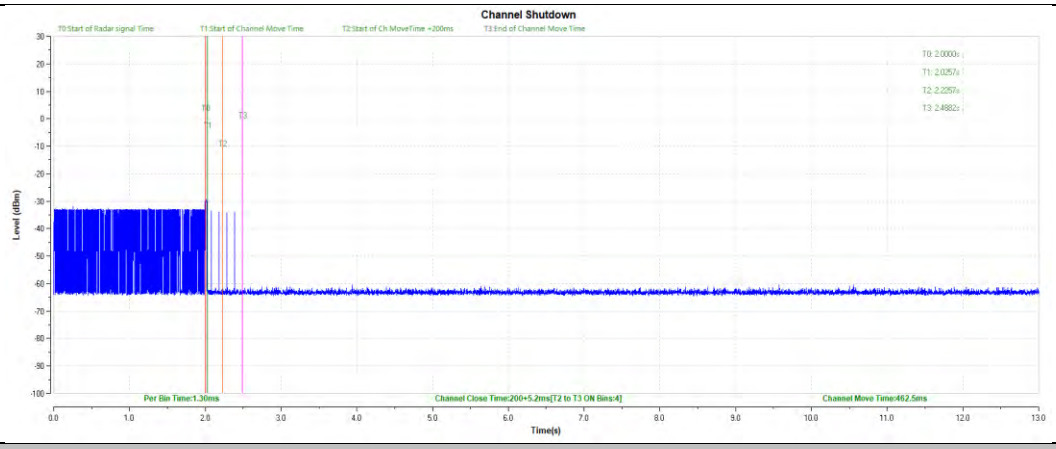
11AC80MIMO_5530_Type0

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



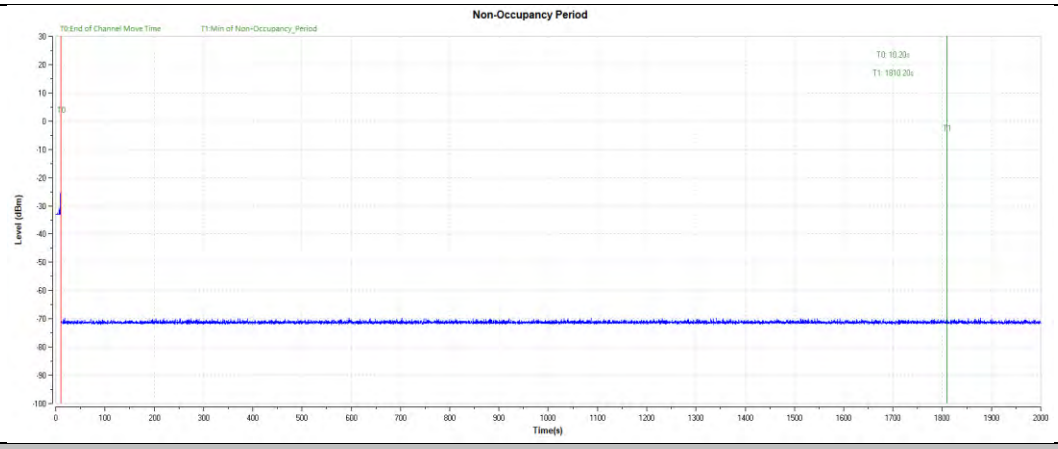
11AC80MIMO_5530

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



11AC80MIMO_5530

END OF REPORT