



11N40MIMO Ant1 5710 UNII-3



11N40MIMO Ant2 5710 UNII-3



11N40MIMO Ant1 5755



11N40MIMO Ant2 5755



11N40MIMO Ant1 5795



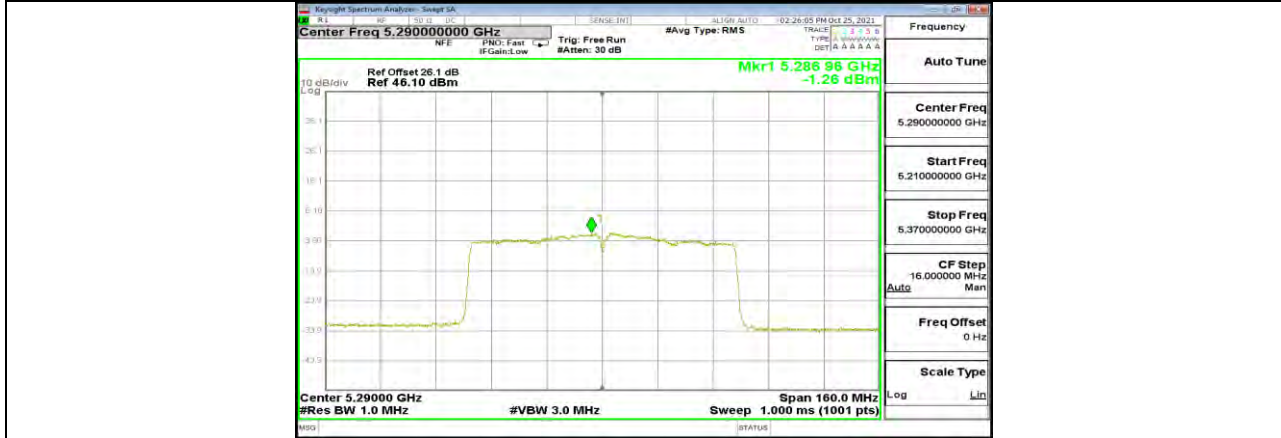
11N40MIMO Ant2 5795



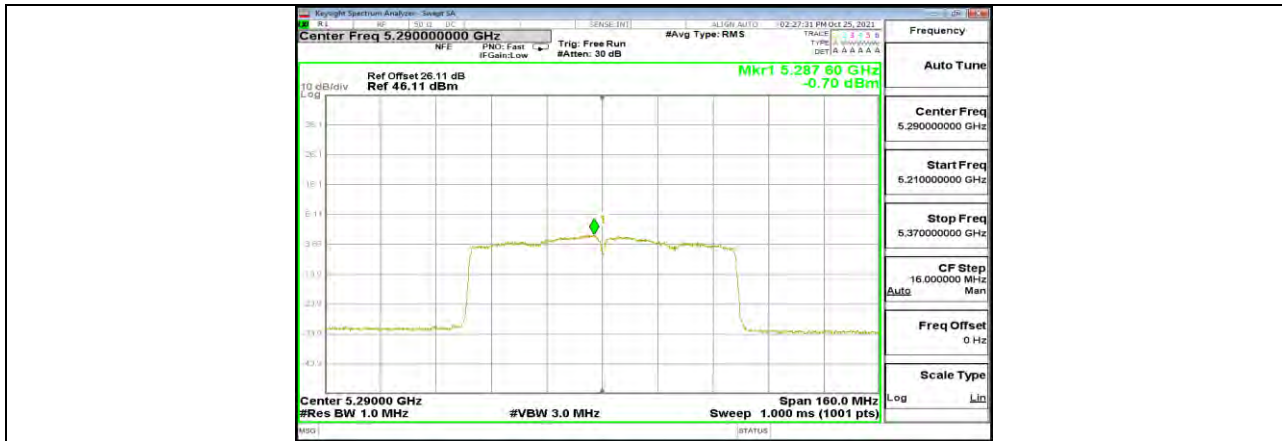
11AC80MIMO Ant1 5210



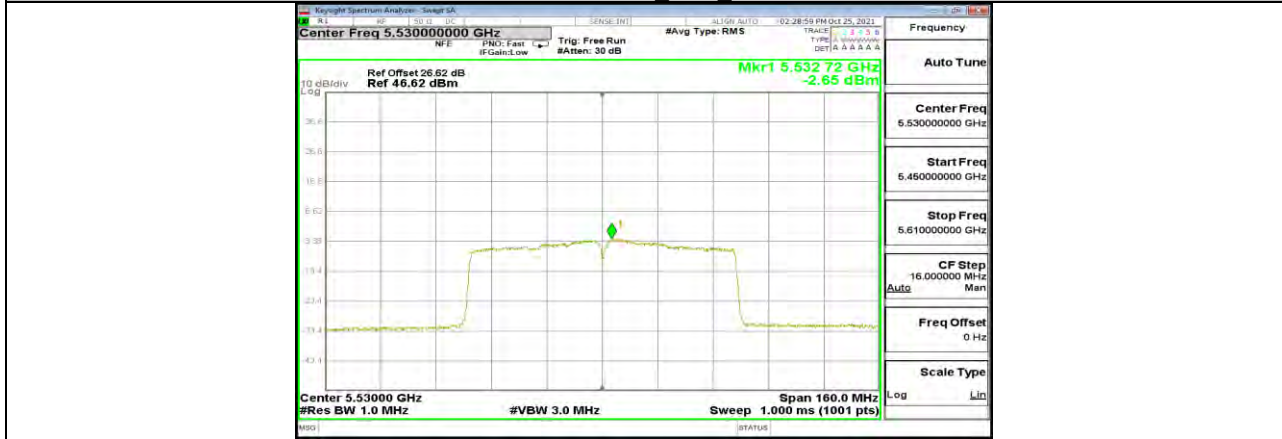
11AC80MIMO Ant2 5210



11AC80MIMO Ant1 5290



11AC80MIMO Ant2 5290



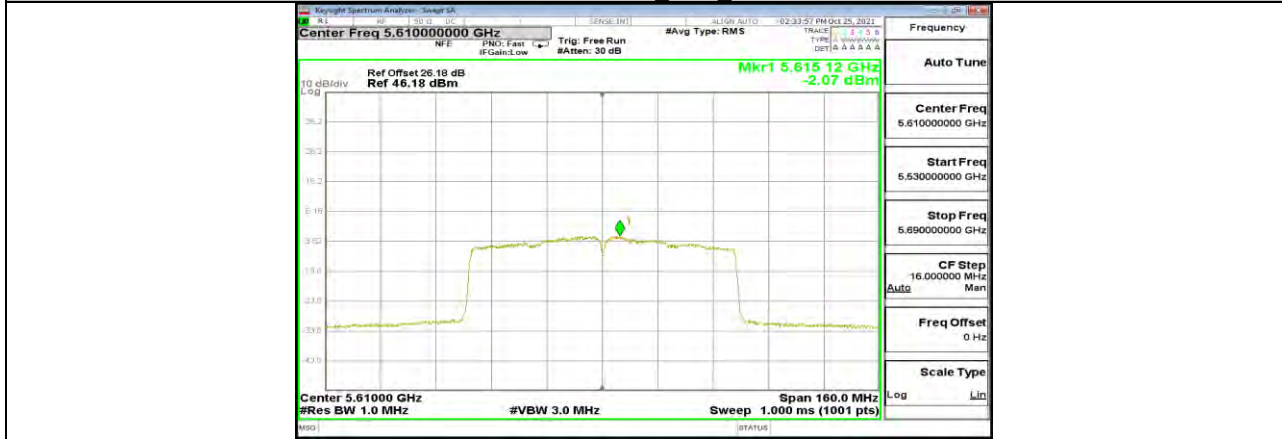
11AC80MIMO Ant1 5530



11AC80MIMO Ant2 5530



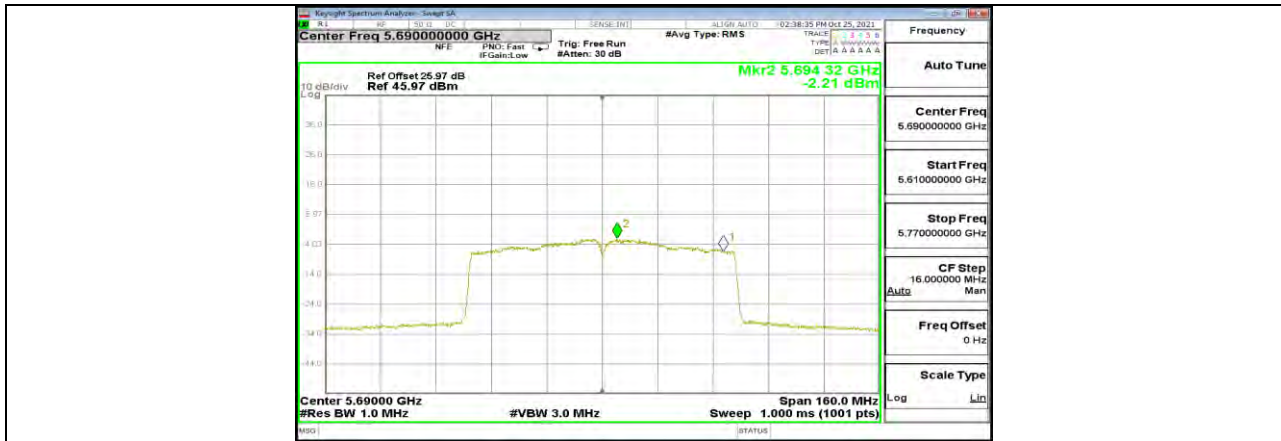
11AC80MIMO Ant1 5610



11AC80MIMO Ant2 5610



11AC80MIMO Ant1 5690 UNII-2C



11AC80MIMO Ant2 5690 UNII-2C



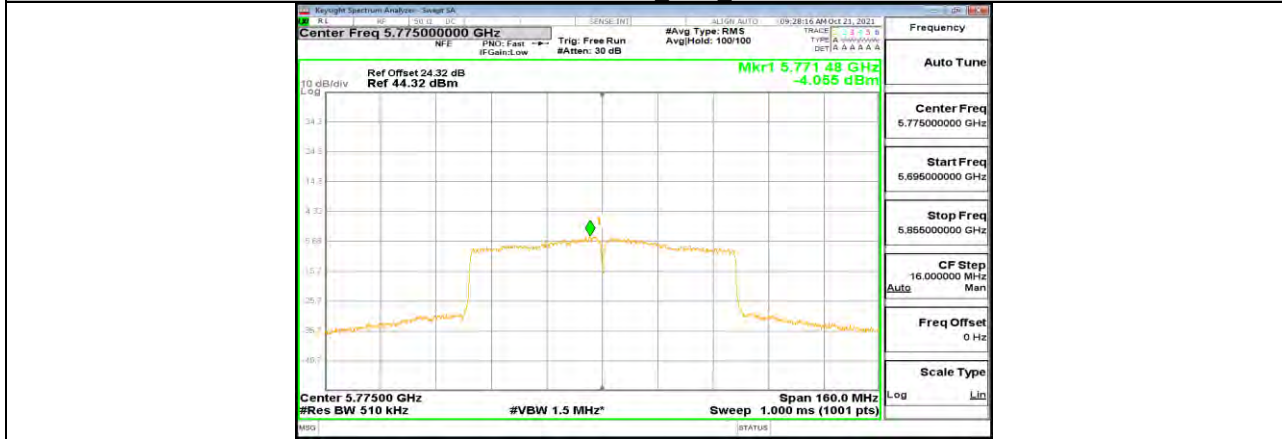
11AC80MIMO Ant1 5690 UNII-3



11AC80MIMO Ant2 5690 UNII-3



11AC80MIMO Ant1 5775



11AC80MIMO Ant2 5775



## 12.6. Appendix D: Duty Cycle

### 12.6.1. 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 20	1.39	1.43	0.9720	97.20	0.12	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	0.188	0.231	0.8138	81.39	0.89	5.32	6

Note:

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

Where: x is Duty Cycle (Linear)

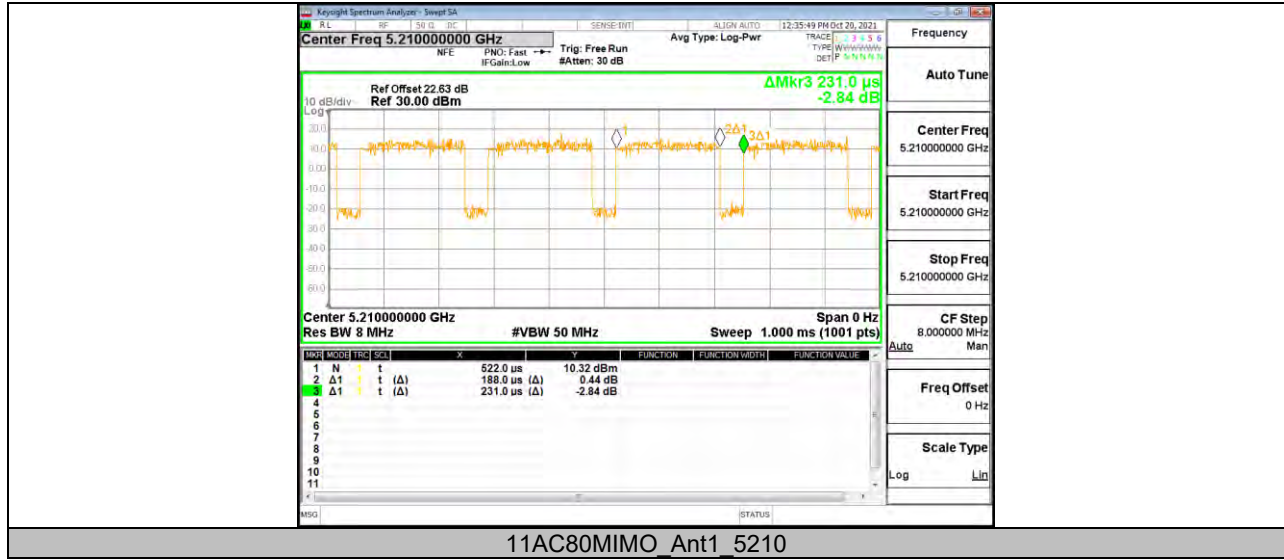
Where: T is On Time

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



### 12.6.2. Test Graphs







**12.7. Appendix E: Frequency Stability  
Test Result**

Frequency Error vs. Voltage									
802.11a 20: 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	5199.9809	-3.68	5199.9780	-4.24	5200.0168	3.23	5199.9778	-4.28
TN	VN	5199.9893	-2.05	5200.0061	1.18	5200.0000	0.00	5200.0208	3.99
TN	VH	5200.0096	1.85	5199.9896	-2.00	5199.9817	-3.52	5200.0097	1.87
Frequency Error vs. Temperature									
802.11a 20: 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	5199.9897	-1.98	5199.9878	-2.35	5199.9933	-1.29	5200.0062	1.20
60	VN	5200.0189	3.64	5200.0115	2.22	5199.9813	-3.60	5200.0168	3.23
40	VN	5199.9997	-0.05	5199.9887	-2.18	5199.9873	-2.44	5199.9822	-3.43
30	VN	5199.9852	-2.85	5200.0215	4.14	5200.0111	2.13	5199.9831	-3.26
20	VN	5200.0148	2.85	5200.0029	0.55	5199.9868	-2.54	5199.9804	-3.77
10	VN	5200.0055	1.06	5199.9916	-1.62	5200.0211	4.06	5200.0135	2.59
0	VN	5199.9937	-1.22	5200.0101	1.95	5200.0120	2.30	5199.9922	-1.50



Frequency Error vs. Voltage									
802.11a 20: 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	5825.0045	0.77	5824.9824	-3.02	5824.9758	-4.16	5825.0005	0.09
TN	VN	5824.9811	-3.25	5825.0213	3.66	5825.0072	1.24	5824.9830	-2.91
TN	VH	5824.9826	-2.99	5824.9815	-3.18	5824.9989	-0.19	5824.9856	-2.47
Frequency Error vs. Temperature									
802.11a 20: 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)
70	VN	5825.0214	3.67	5825.0128	2.19	5825.0182	3.13	5825.0161	2.77
60	VN	5825.0168	2.89	5825.0119	2.04	5824.9927	-1.26	5825.0207	3.56
40	VN	5824.9901	-1.70	5825.0146	2.51	5825.0050	0.86	5824.9921	-1.36
30	VN	5824.9969	-0.54	5824.9774	-3.88	5824.9815	-3.18	5825.0244	4.20
20	VN	5825.0214	3.67	5824.9898	-1.76	5824.9777	-3.82	5824.9976	-0.41
10	VN	5825.0188	3.22	5825.0135	2.31	5824.9880	-2.06	5825.0170	2.91
0	VN	5824.9838	-2.78	5824.9777	-3.82	5824.9850	-2.57	5825.0063	1.09

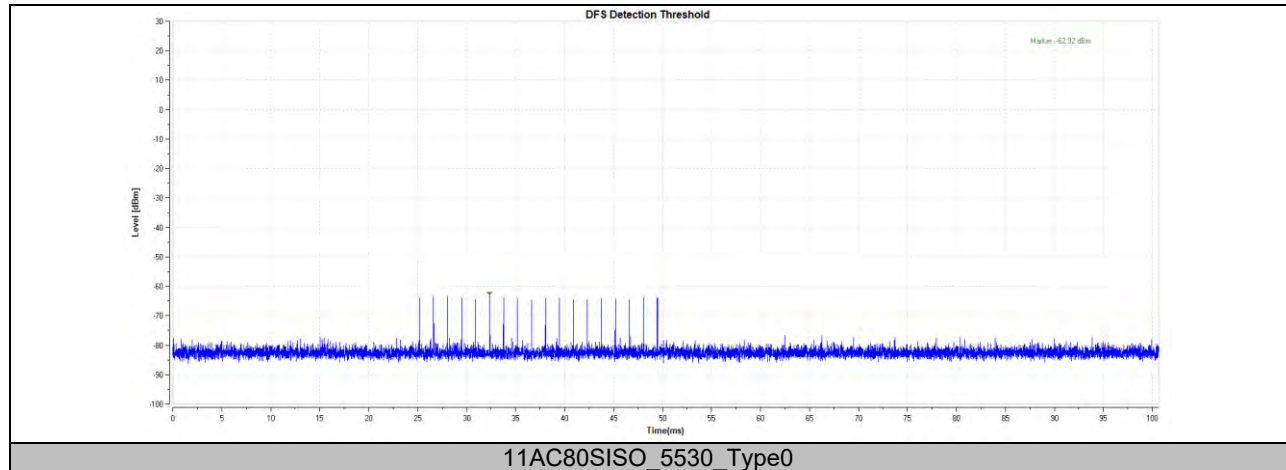
Note: All antennas and test modes have been tested, only the worst data record in the report.

## 12.8. Appendix F: Dynamic Frequency Selection

### Radar Signal Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.92	-59.00	PASS

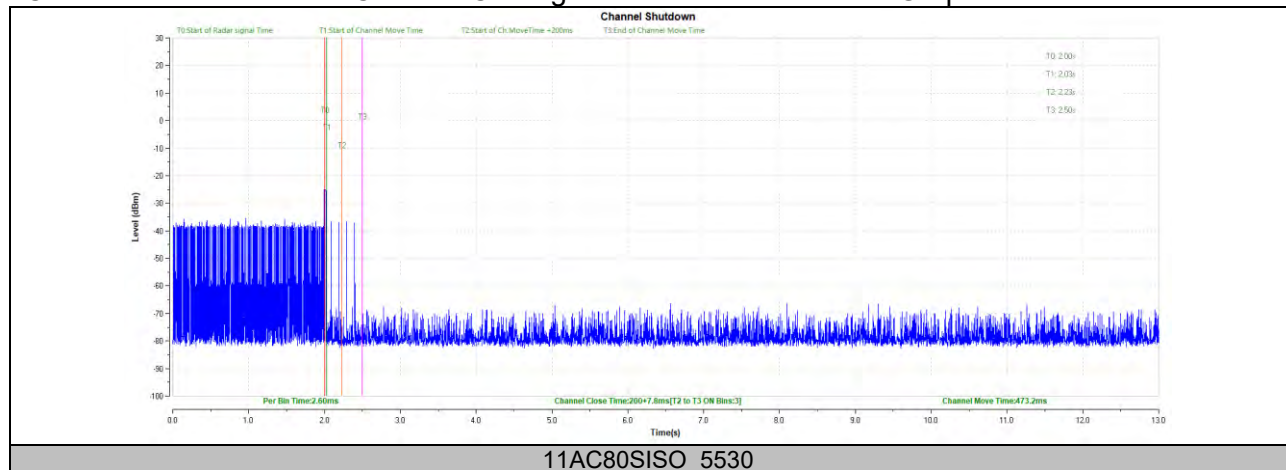
### Radar Signal Test Graphs



### Channel Move Time and Channel Closing Transmission Time Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+7.8	200+60	473.2	10000	PASS

### Channel Move Time and Channel Closing Transmission Time Test Graphs

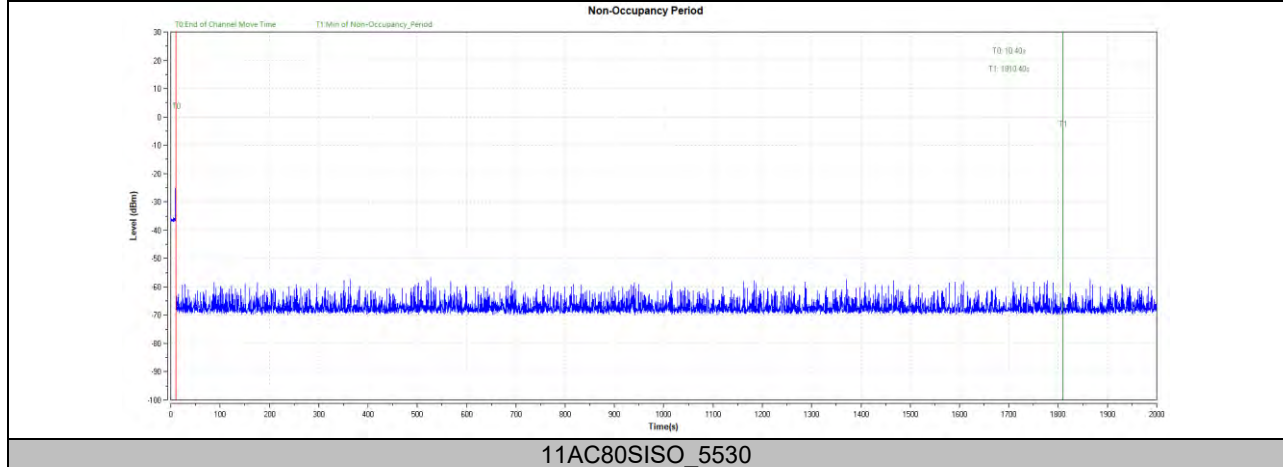




### Non-Occupancy Period Test Result

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

### Non-Occupancy Test Graphs



**END OF REPORT**