

11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
TN	VL	5180.0223	4.31	5180.0182	3.52	5180.0038	0.74	5180.0170	3.28
TN	VN	5180.0026	0.51	5179.9766	-4.53	5180.0094	1.81	5179.9827	-3.34
TN	VH	5179.9781	-4.23	5180.0050	0.97	5180.0104	2.01	5179.9921	-1.53

Frequency Error vs. Temperature									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
70	VN	5179.9908	-1.77	5179.9752	-4.78	5179.9831	-3.27	5180.0143	2.77
60	VN	5180.0157	3.03	5180.0055	1.07	5180.0211	4.07	5179.9997	-0.06
50	VN	5180.0183	3.53	5179.9820	-3.48	5180.0158	3.04	5180.0068	1.32
40	VN	5179.9800	-3.86	5180.0064	1.24	5179.9779	-4.27	5179.9930	-1.35
30	VN	5179.9859	-2.73	5179.9958	-0.82	5179.9910	-1.74	5179.9916	-1.62
20	VN	5180.0026	0.49	5180.0004	0.07	5180.0167	3.21	5179.9985	-0.29
10	VN	5180.0207	4.00	5180.0089	1.72	5180.0232	4.49	5179.9781	-4.22
0	VN	5180.0188	3.63	5180.0141	2.72	5179.9910	-1.73	5180.0113	2.18
-10	VN	5180.0053	1.02	5179.9969	-0.60	5180.0155	2.99	5179.9987	-0.25

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)						
TN	VL	5825.0214	3.67	5824.9806	-3.33	5824.9972	-0.48	5824.9904	-1.65
TN	VN	5825.0209	3.60	5825.0081	1.39	5825.0115	1.97	5825.0005	0.09
TN	VH	5824.9768	-3.99	5825.0197	3.38	5825.0046	0.79	5825.0246	4.22

Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
70	VN	5824.9795	-3.52	5824.9946	-0.93	5825.0231	3.97	5824.9986	-0.24
60	VN	5824.9880	-2.05	5824.9866	-2.30	5825.0162	2.79	5825.0074	1.28
50	VN	5825.0080	1.38	5824.9925	-1.29	5825.0083	1.43	5825.0071	1.22
40	VN	5824.9762	-4.08	5824.9896	-1.78	5824.9915	-1.46	5824.9996	-0.06
30	VN	5825.0160	2.74	5825.0044	0.75	5824.9960	-0.68	5824.9904	-1.65
20	VN	5825.0139	2.39	5824.9955	-0.77	5825.0243	4.17	5824.9841	-2.73
10	VN	5824.9810	-3.27	5825.0139	2.39	5825.0170	2.91	5824.9904	-1.65
0	VN	5824.9818	-3.13	5824.9854	-2.51	5825.0159	2.74	5825.0139	2.39
-10	VN	5825.0076	1.30	5825.0055	0.95	5825.0163	2.80	5824.9864	-2.33

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.

11.7. APPENDIX G: 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-CDD	1.38	1.42	0.9718	97.18	0.12	0.72	1
11N20MIMO	1.28	1.32	0.9697	96.97	0.13	0.78	1
11N40MIMO	0.64	0.69	0.9275	92.75	0.33	1.56	2
11AC80MIMO	1.16	1.92	0.6042	60.42	2.19	0.86	1
11AX20MIMO	1.02	1.65	0.6182	61.82	2.09	0.98	1
11AX40MIMO	0.54	1.19	0.4538	45.38	3.43	1.85	2
11AX80MIMO	0.3	0.92	0.3261	32.61	4.87	3.33	4

Test Mode	RuSize	RuIndex	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)
11AX20MIMO	26Tone	RU0	1.6	1.64	0.9756	97.56	0.11	0.63	1
	52Tone	RU37	1.51	1.56	0.9679	96.79	0.14	0.66	1
	106Tone	RU53	1.39	1.44	0.9653	96.53	0.15	0.72	1
	26Tone	RU4	1.6	1.65	0.9697	96.97	0.13	0.63	1
	52Tone	RU38	1.51	2.12	0.7123	71.23	1.47	0.66	1
	26Tone	RU8	1.6	1.64	0.9756	97.56	0.11	0.63	1
	52Tone	RU40	1.52	1.56	0.9744	97.44	0.11	0.66	1
	106Tone	RU54	1.39	1.43	0.9720	97.20	0.12	0.72	1

Note:

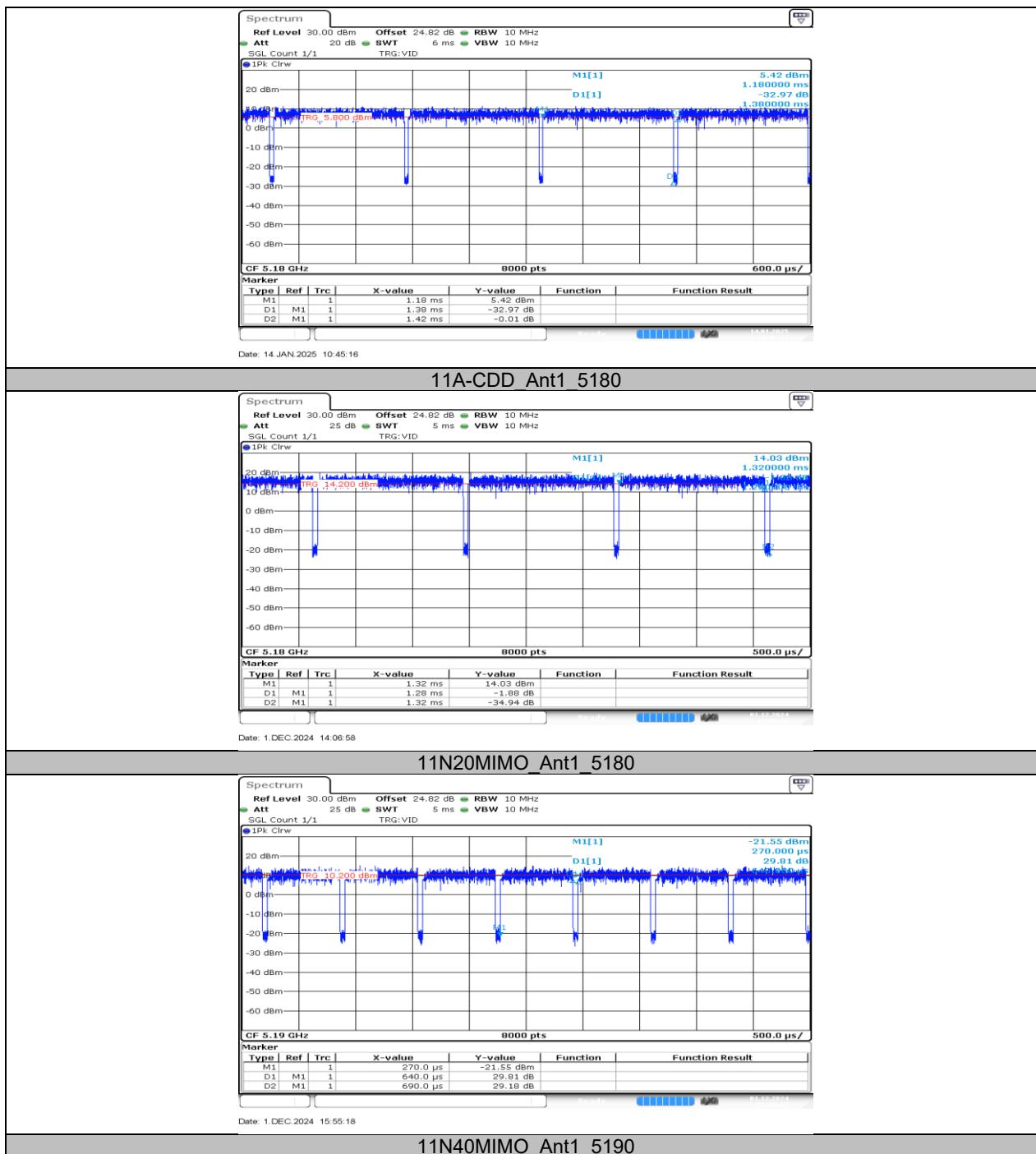
Duty Cycle Correction Factor=10log (1/x).

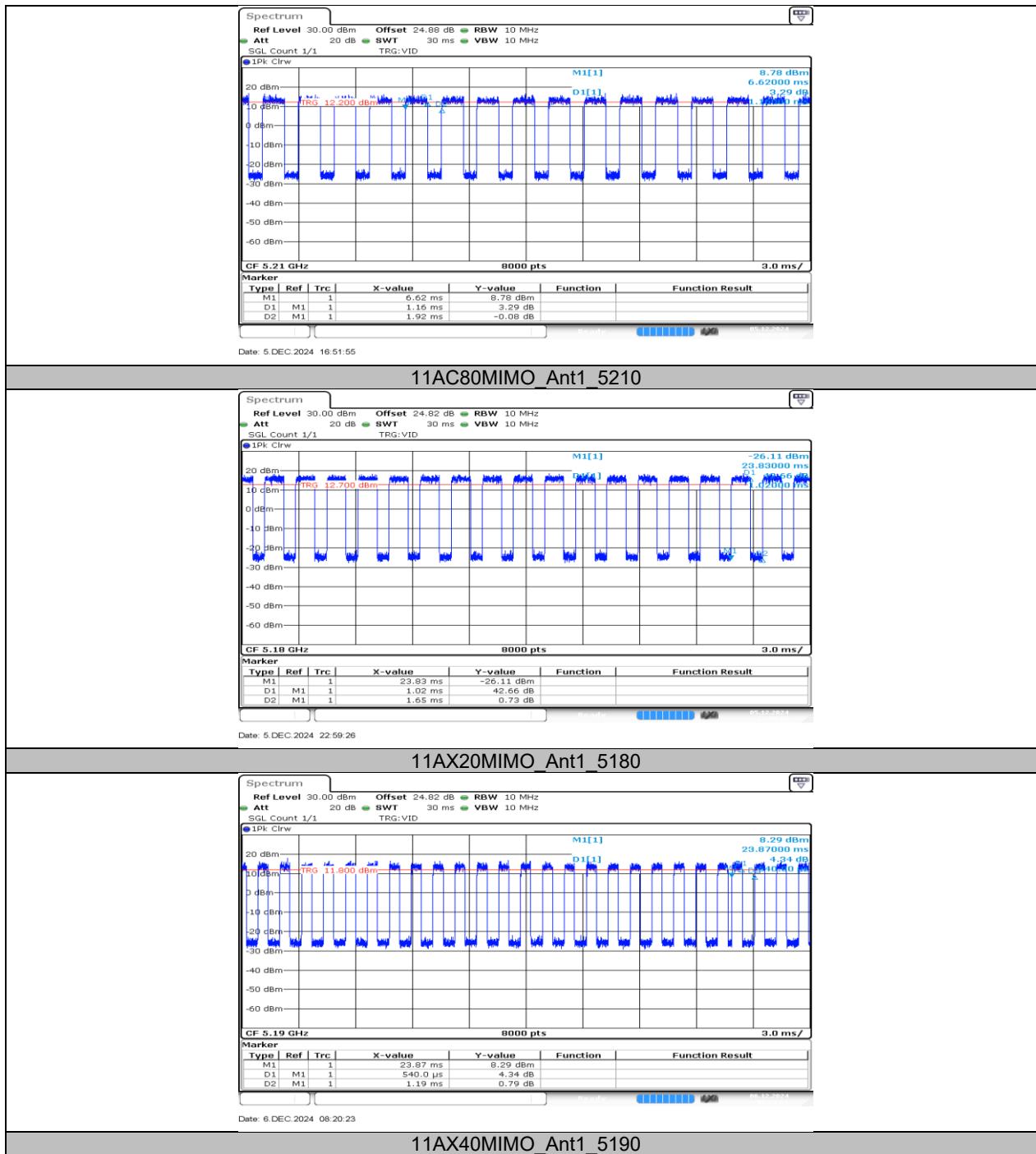
Where: x is Duty Cycle (Linear)

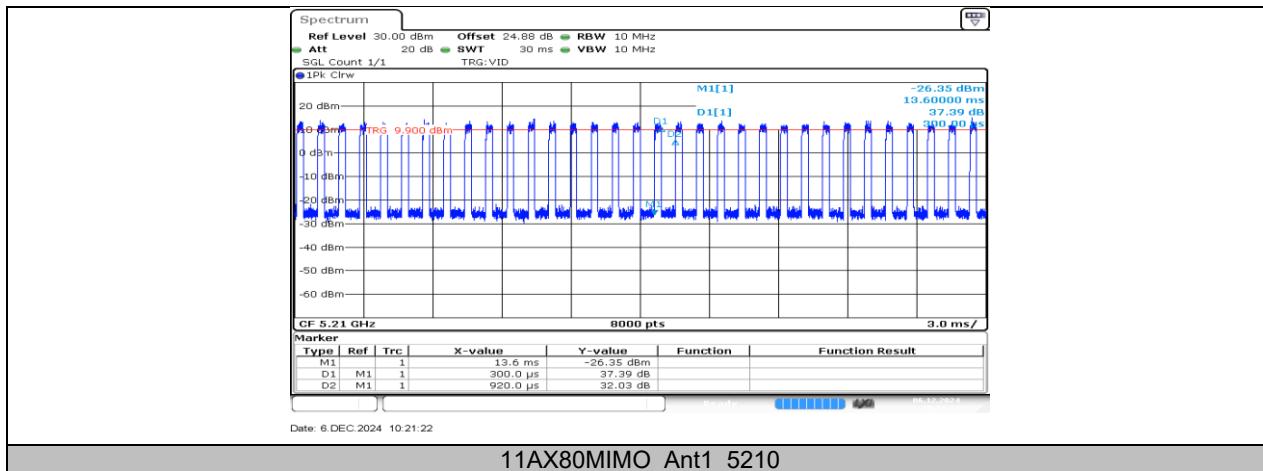
Where: T is On Time

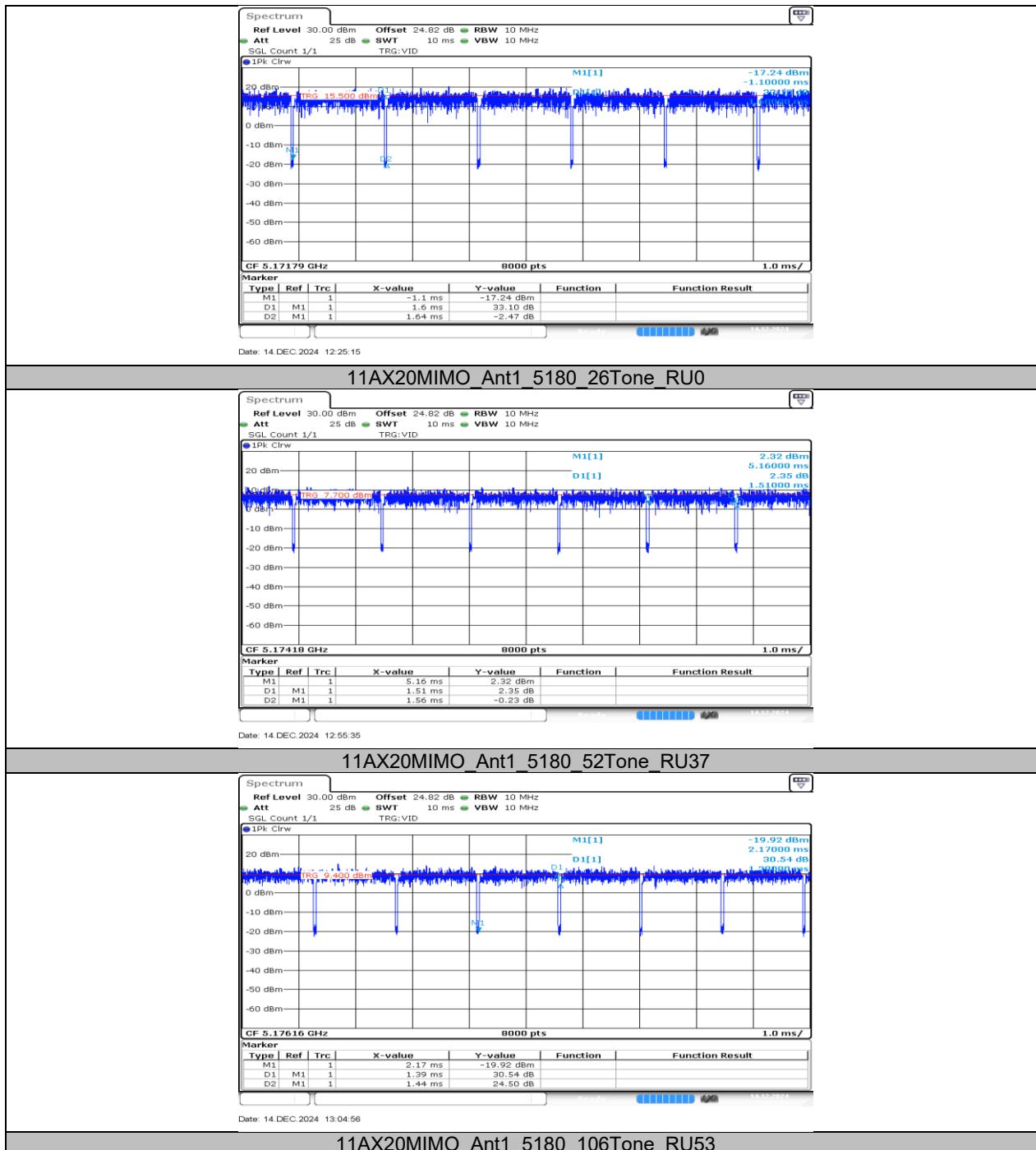
If that calculated VBW is not available on the analyzer then the next higher value should be used.

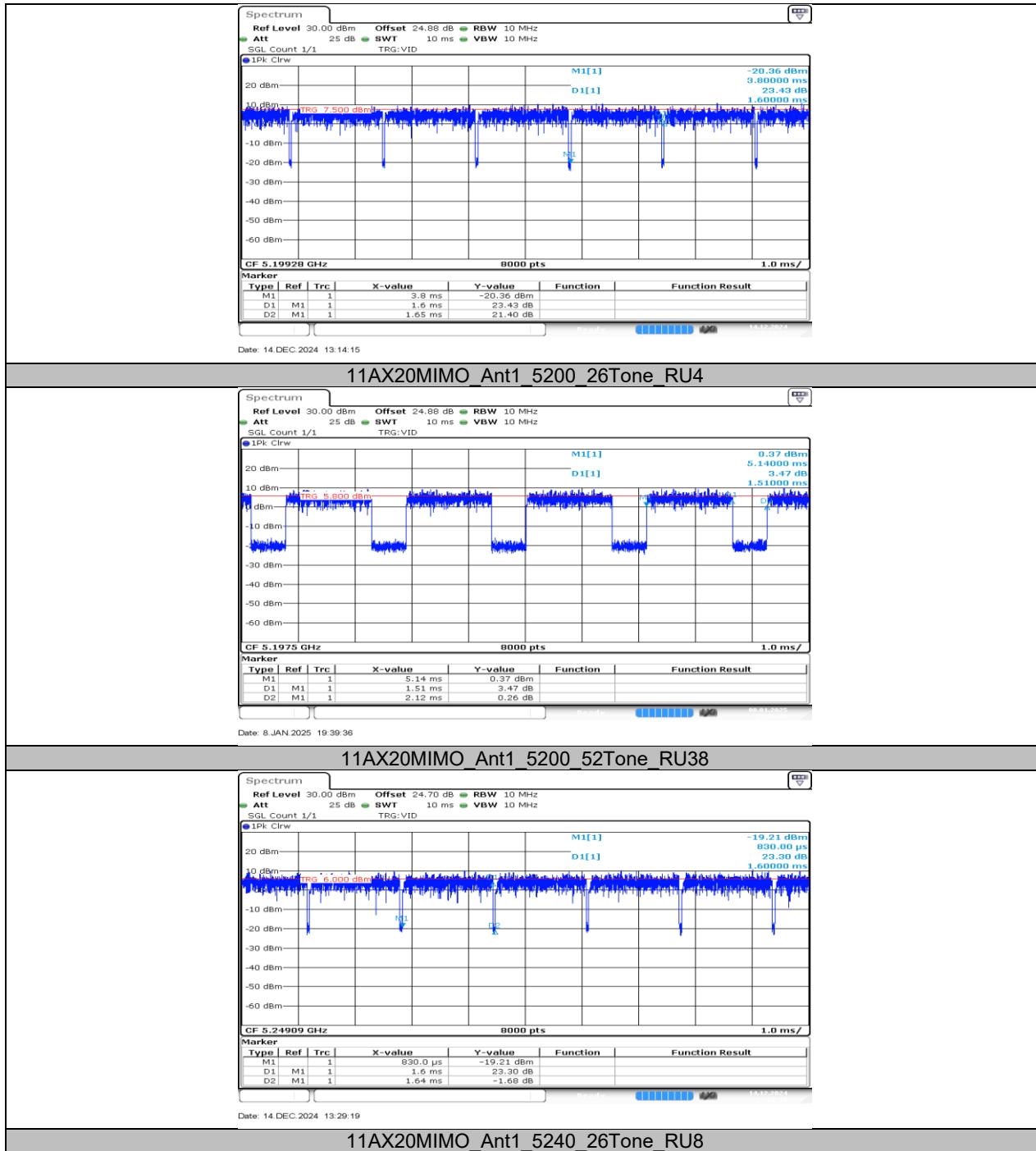
11.7.2. Test Graphs

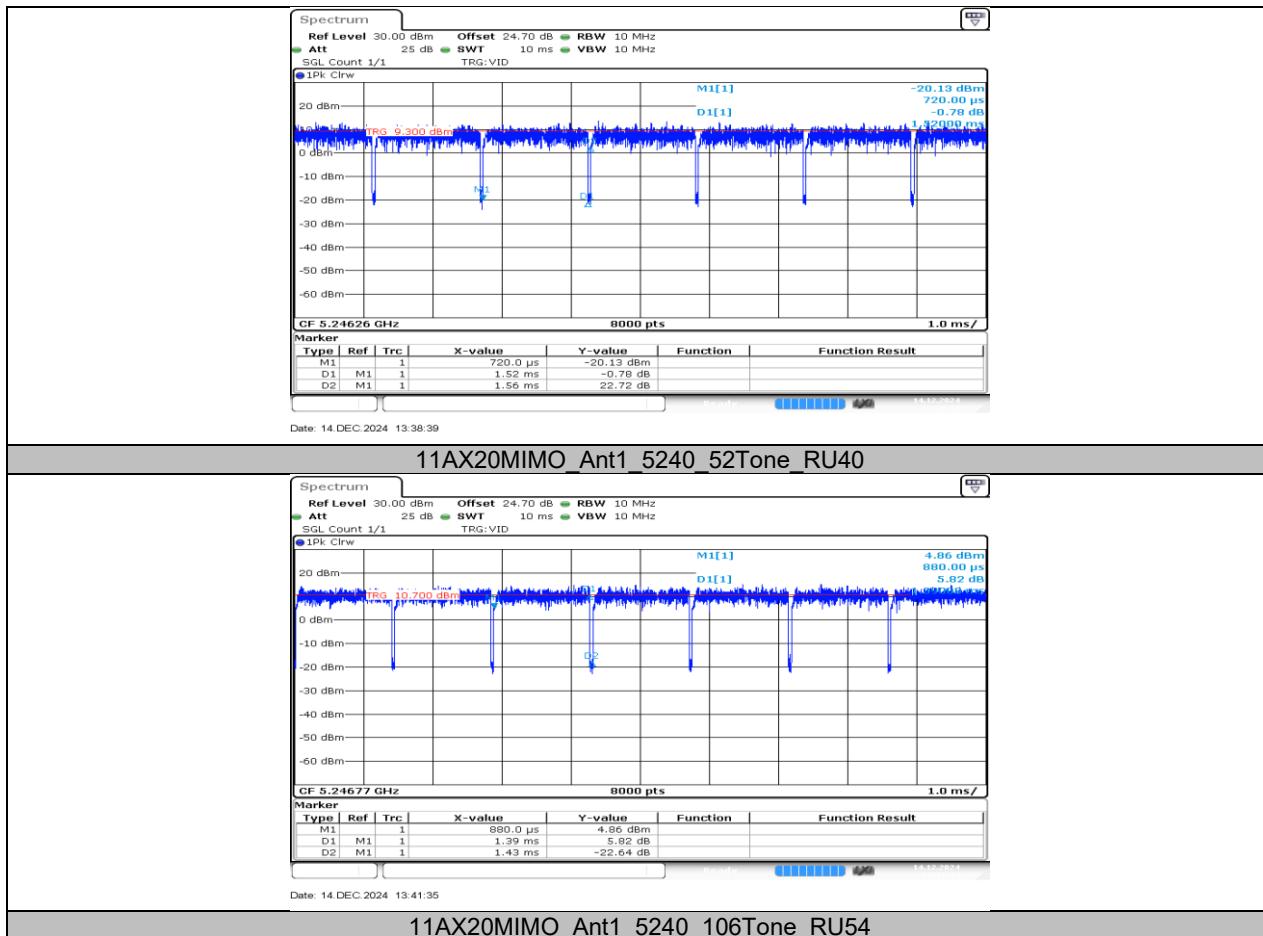








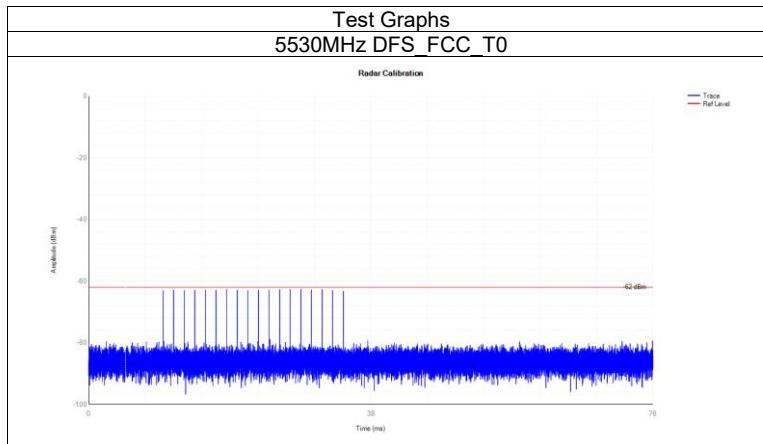




11.8. APPENDIX H: DFS

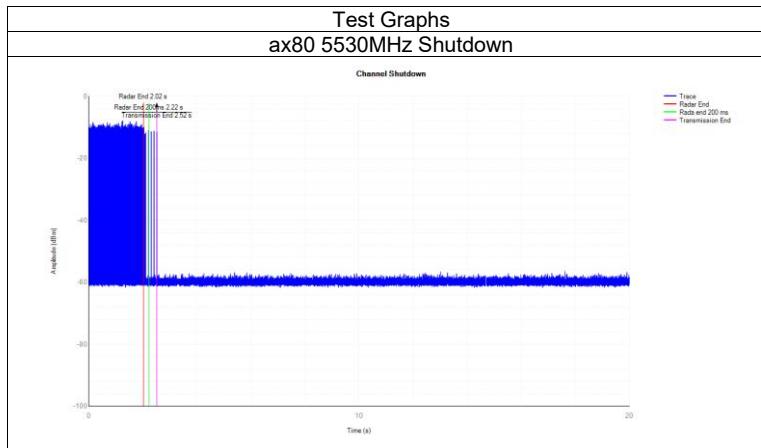
11.8.1. Calibration

Mode	Frequency (MHz)	Type	Result	Verdict
ax80	5530	DFS_FCC_T0	See test Graph	Pass



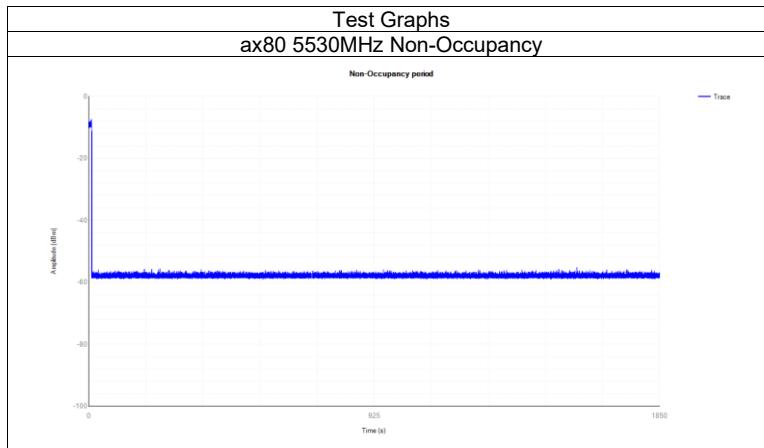
11.8.2. Shutdown Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ax80	5530	0.494	10	0.019	0.26	0.003	0.06	Pass



11.8.3. Non-Occupancy

Mode	Frequency (MHz)	Result	Verdict
ax80	5530	See test Graph	Pass



END OF REPORT