

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	5180.0092	1.78	5180.0148	2.85	5179.9987	-0.26	5180.0067	1.29
TN	VN	5180.0021	0.41	5179.9848	-2.93	5179.9955	-0.87	5180.0009	0.17
TN	VH	5179.9911	-1.72	5179.9992	-0.16	5180.0057	1.10	5179.9891	-2.10

Frequency Error vs. Temperature									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
70	VN	5180.0020	0.38	5180.0163	3.14	5180.0111	2.14	5179.9841	-3.08
60	VN	5179.9852	-2.85	5179.9945	-1.05	5180.0174	3.37	5180.0056	1.07
50	VN	5180.0188	3.64	5179.9988	-0.24	5179.9768	-4.48	5179.9817	-3.53
40	VN	5179.9914	-1.66	5180.0077	1.48	5179.9941	-1.13	5180.0210	4.05
30	VN	5180.0024	0.45	5180.0135	2.60	5179.9981	-0.36	5179.9965	-0.67
20	VN	5180.0127	2.46	5179.9894	-2.05	5180.0001	0.02	5180.0196	3.78
10	VN	5180.0077	1.49	5179.9809	-3.70	5180.0019	0.36	5180.0224	4.33
0	VN	5180.0193	3.72	5180.0113	2.19	5180.0054	1.04	5179.9815	-3.58
-10	VN	5179.9871	-2.49	5180.0063	1.22	5180.0156	3.00	5180.0221	4.28

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	5824.9907	-1.60	5825.0207	3.55	5824.9857	-2.45	5824.9878	-2.10
TN	VN	5824.9761	-4.11	5824.9990	-0.18	5825.0181	3.10	5825.0010	0.17
TN	VH	5824.9769	-3.96	5824.9826	-2.99	5825.0200	3.43	5825.0243	4.16

Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
70	VN	5824.9849	-2.59	5825.0071	1.22	5824.9837	-2.81	5825.0212	3.63
60	VN	5825.0068	1.17	5825.0137	2.35	5824.9929	-1.22	5824.9968	-0.55
50	VN	5824.9940	-1.03	5824.9936	-1.10	5825.0171	2.93	5825.0007	0.11
40	VN	5824.9939	-1.05	5825.0104	1.78	5825.0153	2.62	5825.0204	3.51
30	VN	5824.9987	-0.23	5825.0062	1.06	5824.9847	-2.62	5824.9996	-0.07
20	VN	5825.0074	1.28	5824.9805	-3.35	5825.0249	4.27	5824.9926	-1.27
10	VN	5824.9952	-0.82	5825.0213	3.66	5824.9753	-4.24	5825.0203	3.49
0	VN	5824.9907	-1.60	5825.0068	1.17	5825.0226	3.88	5825.0232	3.98
-10	VN	5825.0163	2.80	5824.9795	-3.53	5825.0143	2.46	5825.0119	2.04

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	1.39	1.75	0.7943	79.43	1.00	0.72	1
11N20SISO	1.3	1.67	0.7784	77.84	1.09	0.77	1
11N40SISO	0.64	0.99	0.6465	64.65	1.89	1.56	2
11AC80SISO	0.32	0.68	0.4706	47.06	3.27	3.13	4
11AC160SISO	0.18	0.54	0.3333	33.33	4.77	5.56	6
11AX20SISO SU	1.02	1.36	0.7500	75.00	1.25	0.98	1
11AX40SISO SU	0.54	0.9	0.6000	60.00	2.22	1.85	2
11AX80SISO SU	0.3	0.65	0.4615	46.15	3.36	3.33	4
11AX160SISO SU	0.18	0.53	0.3396	33.96	4.69	5.56	6

Test Mode	RuSize	RulIndex	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)
11AX20SISO	26Tone	RU0	1.6	1.91	0.8377	83.77	0.77	0.63	1
	52Tone	RU38	1.52	1.85	0.8216	82.16	0.85	0.66	1
	106Tone	RU54	1.39	1.73	0.8035	80.35	0.95	0.72	1

Note:

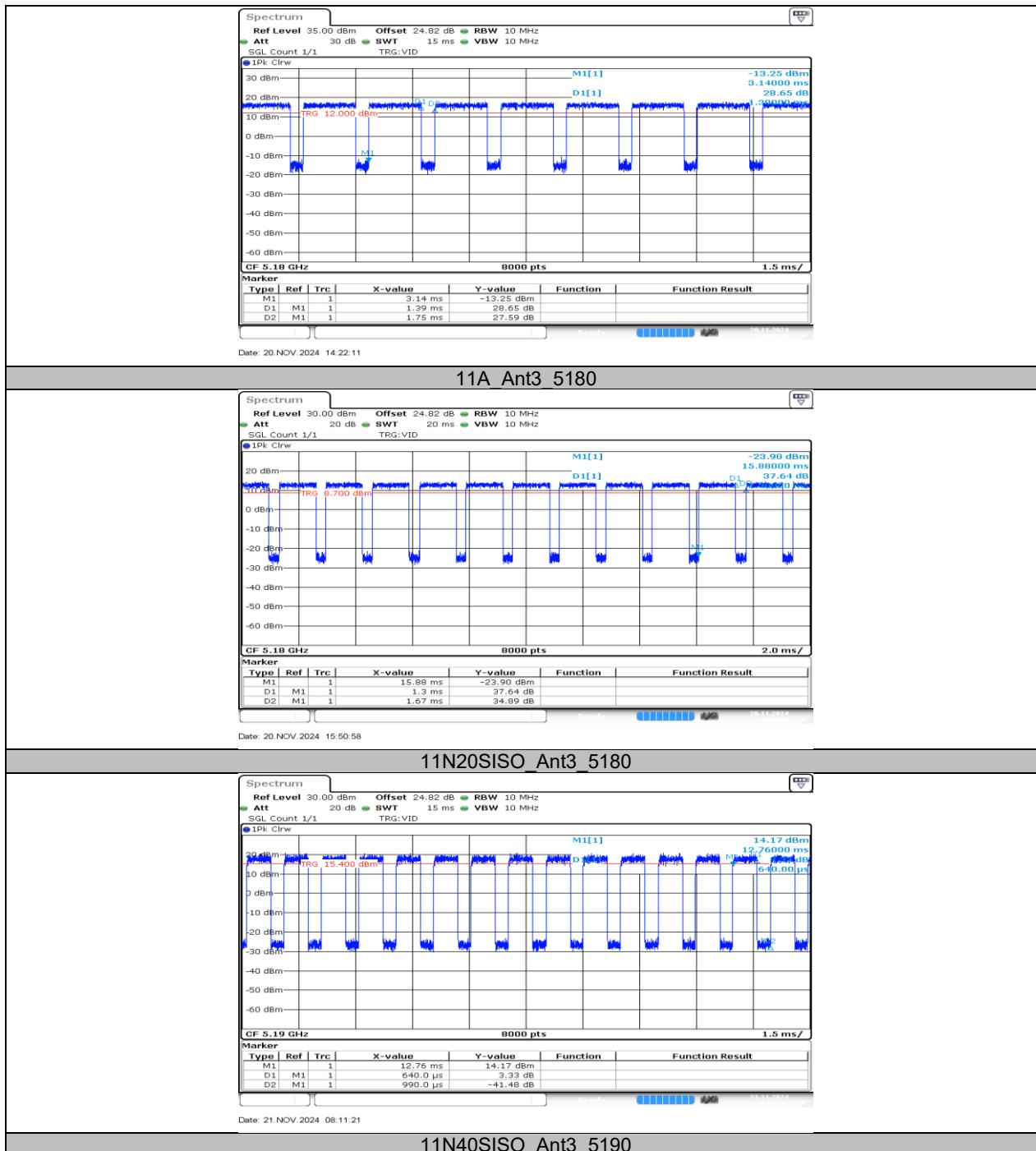
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

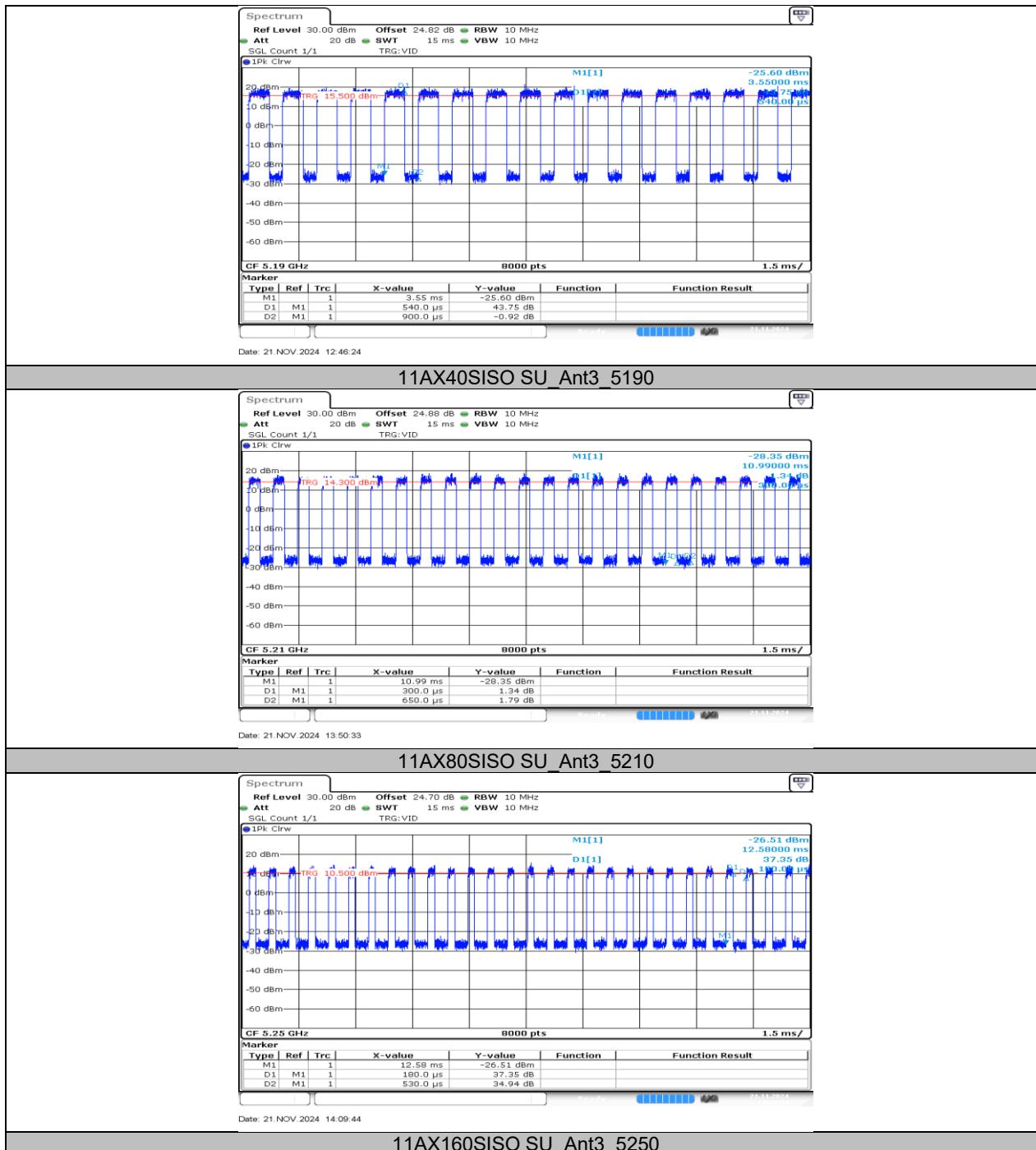
Where: T is On Time

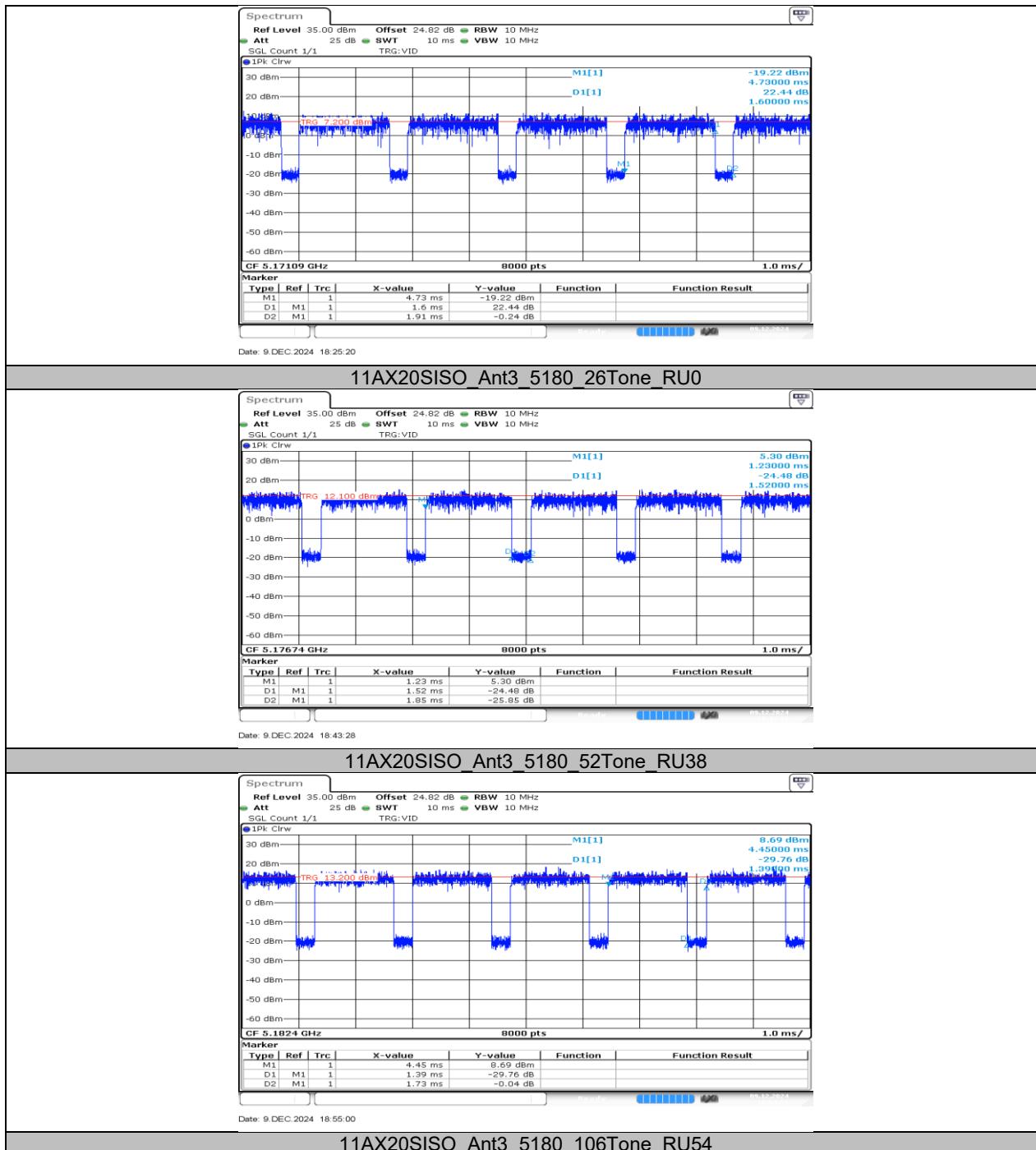
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs



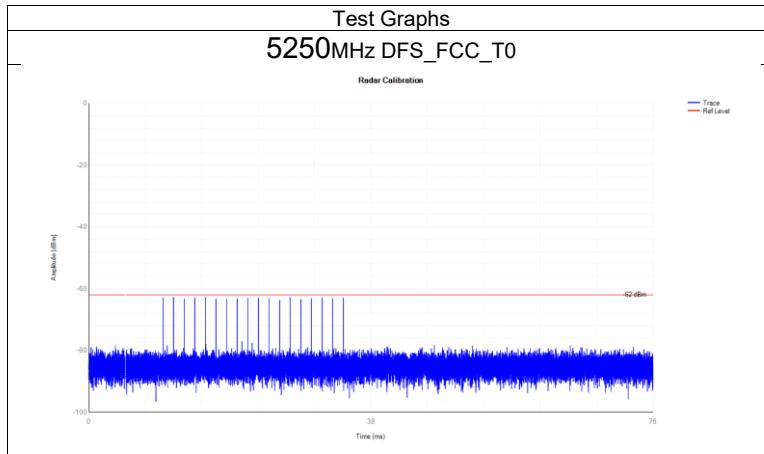






11.8. 11.7. APPENDIX H: CALIBRATION

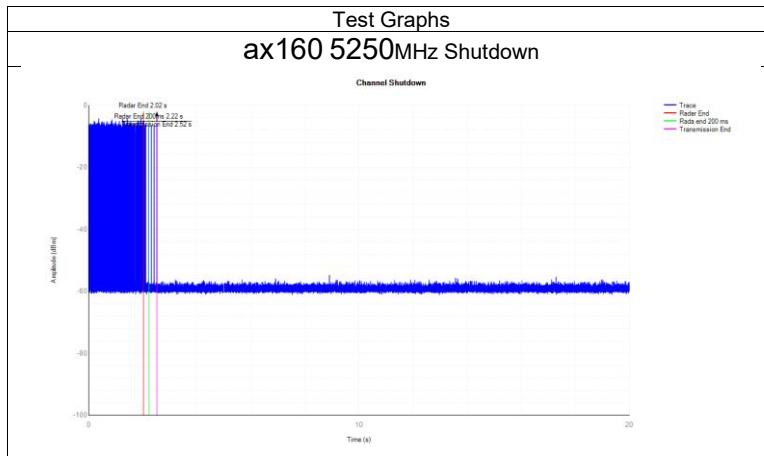
Mode	Frequency (MHz)	Type	Result	Verdict
ax160	5250	DFS_FCC_T0	See test Graph	Pass



11.9. 11.7. APPENDIX I: 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
ax160	5250	0.496	10	0.027	0.26	0.004	0.06	Pass

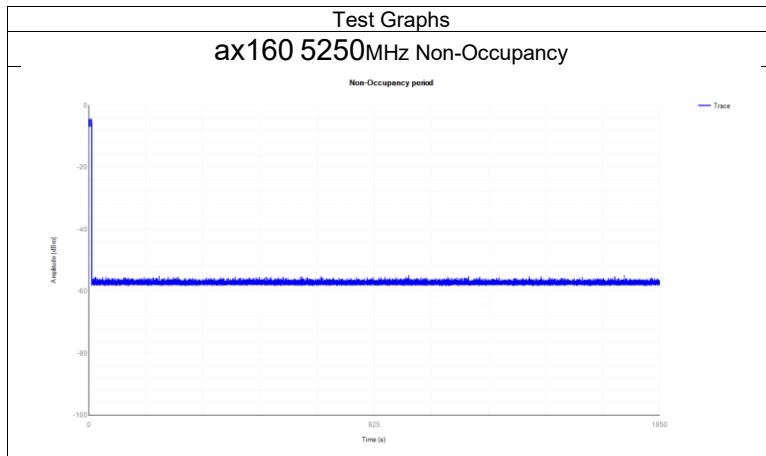
Note: refer to KDB 905462 D02 table 2, this report only records the widest BW mode test data.



11.10. 11.7. APPENDIX J: NON-OCCUPANCY

Mode	Frequency (MHz)	Result	Verdict
ax160	5250	See test Graph	Pass

Note: refer to KDB 905462 D02 table 2, this report only records the widest BW mode test data.



END OF REPORT