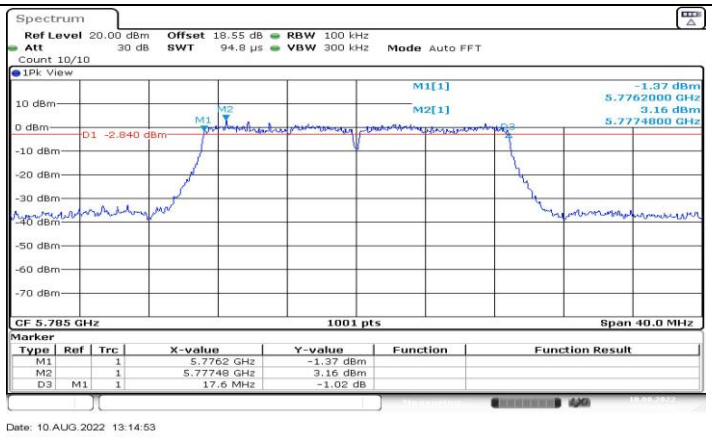
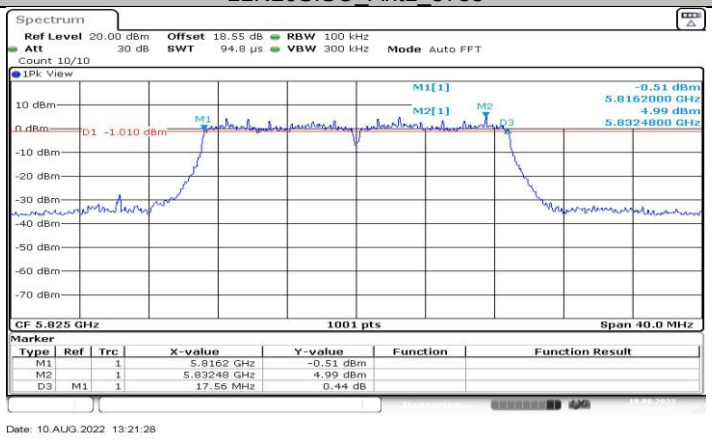


11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

11.4.1. Test Result

Test Mode	Antenna	Channel	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	15.94	≤23.98	---	19.61	≤22.39	PASS
		5220	15.91	≤23.98	---	19.58	≤22.38	PASS
		5240	16.38	≤23.98	---	20.05	≤22.38	PASS
		5260	17.63	≤23.91	≤23.40	21.30	≤29.40	PASS
		5300	17.84	≤23.94	≤23.38	21.51	≤29.38	PASS
		5320	16.98	≤23.95	≤23.38	20.65	≤29.38	PASS
		5500	12.62	≤23.93	≤23.39	16.29	≤29.39	PASS
		5580	14.54	≤23.88	≤23.40	18.21	≤29.40	PASS
		5700	14.06	≤23.89	≤23.39	17.73	≤29.39	PASS
		5720_UNII-2C	14.40	≤22.68	≤22.36	18.07	≤28.36	PASS
		5720_UNII-3	8.64	≤30.00	≤30.00	---	---	PASS
		5745	14.56	≤30.00	≤30.00	---	---	PASS
		5785	14.28	≤30.00	≤30.00	---	---	PASS
		5825	14.83	≤30.00	≤30.00	---	---	PASS
11N20SISO	Ant1	5180	16.15	≤23.98	---	19.82	≤22.58	PASS
		5220	16.13	≤23.98	---	19.80	≤22.57	PASS
		5240	16.62	≤23.98	---	20.29	≤22.57	PASS
		5260	16.87	≤23.98	≤23.58	20.54	≤29.58	PASS
		5300	17.92	≤23.98	≤23.58	21.59	≤29.58	PASS
		5320	14.97	≤23.98	≤23.57	18.64	≤29.57	PASS
		5500	13.28	≤23.98	≤23.58	16.95	≤29.58	PASS
		5580	14.74	≤23.98	≤23.60	18.41	≤29.60	PASS
		5700	14.25	≤23.98	≤23.57	17.92	≤29.57	PASS
		5720_UNII-2C	14.45	≤22.71	≤22.50	18.12	≤28.50	PASS
		5720_UNII-3	9.30	≤30.00	≤30.00	---	---	PASS
		5745	14.58	≤30.00	≤30.00	---	---	PASS
		5785	14.00	≤30.00	≤30.00	---	---	PASS
		5825	14.53	≤30.00	≤30.00	---	---	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

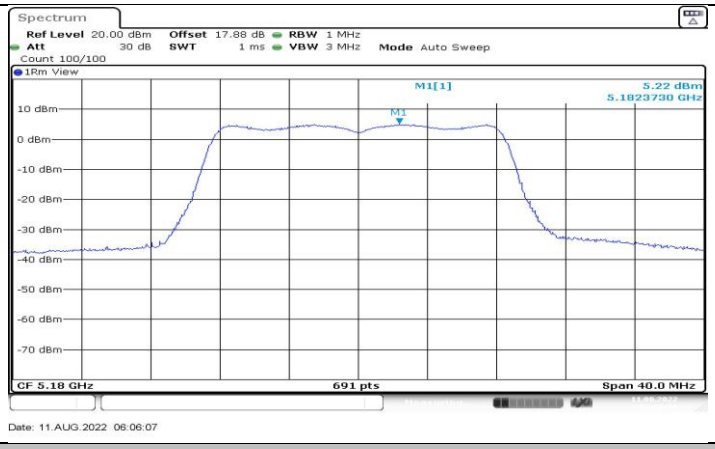
11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	5.22	≤11.00	8.89	≤10.00	PASS
		5220	5.01	≤11.00	8.68	≤10.00	PASS
		5240	5.4	≤11.00	9.07	≤10.00	PASS
		5260	6.65	≤11.00	10.85	---	PASS
		5300	6.76	≤11.00	10.96	---	PASS
		5320	6.08	≤11.00	10.28	---	PASS
		5500	1.57	≤11.00	4.12	---	PASS
		5580	3.62	≤11.00	8.51	---	PASS
		5700	3.11	≤11.00	5.66	---	PASS
		5720_UNII-2C	4.50	≤11.00	10.05	---	PASS
		5720_UNII-3	1.90	≤11.00	7.07	---	PASS
		5745	0.72	≤30.00	4.92	---	PASS
		5785	0.35	≤30.00	4.55	---	PASS
		5825	0.94	≤30.00	5.14	---	PASS
11N20SISO	Ant1	5180	4.85	≤11.00	8.52	≤10.00	PASS
		5220	4.79	≤11.00	8.46	≤10.00	PASS
		5240	5.31	≤11.00	8.98	≤10.00	PASS
		5260	5.51	≤11.00	9.71	---	PASS
		5300	6.71	≤11.00	10.91	---	PASS
		5320	3.67	≤11.00	7.85	---	PASS
		5500	5.62	≤11.00	8.17	---	PASS
		5580	3.35	≤11.00	8.43	---	PASS
		5700	3.08	≤11.00	5.63	---	PASS
		5720_UNII-2C	4.48	≤11.00	9.78	---	PASS
		5720_UNII-3	1.59	≤11.00	7.24	---	PASS
		5745	0.42	≤30.00	6.77	---	PASS
		5785	-0.02	≤30.00	5.44	---	PASS
		5825	0.47	≤30.00	6.35	---	PASS

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs



11A_Ant1_5180

11A_Ant1_5220

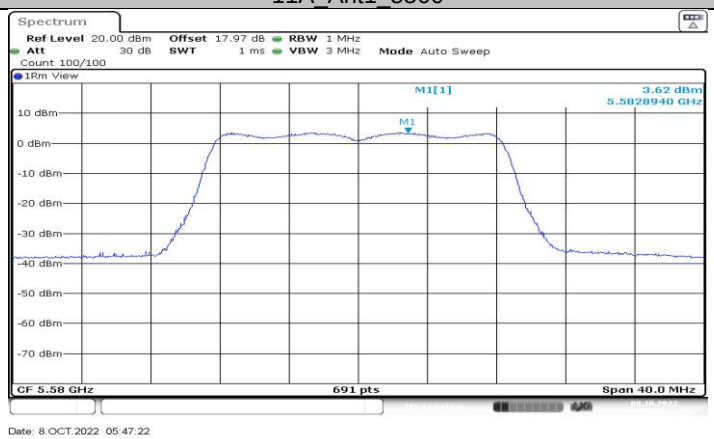
11A_Ant1_5240

11A_Ant1_5260

11A_Ant1_5300

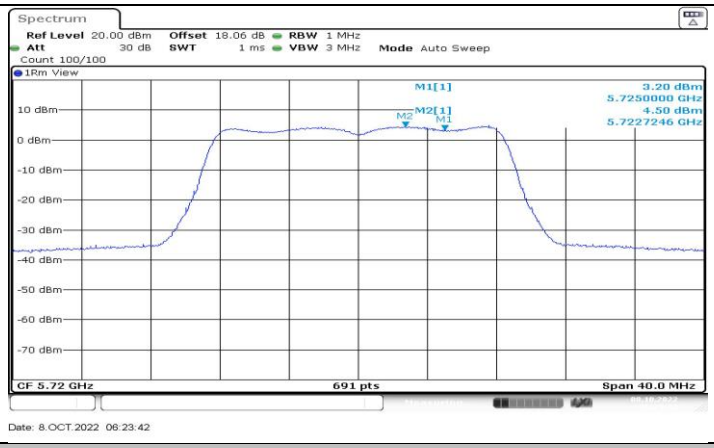
11A_Ant1_5320

11A_Ant1_5500



11A_Ant1_5580

11A_Ant1_5700

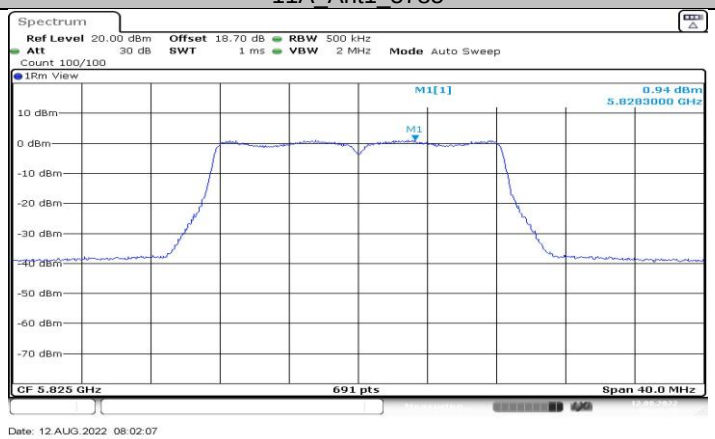


11A_Ant1_5720_UNII-2C

11A_Ant1_5720_UNII-3

11A_Ant1_5745

11A_Ant1_5785



11A_Ant1_5825

11N20SISO_Ant1_5180

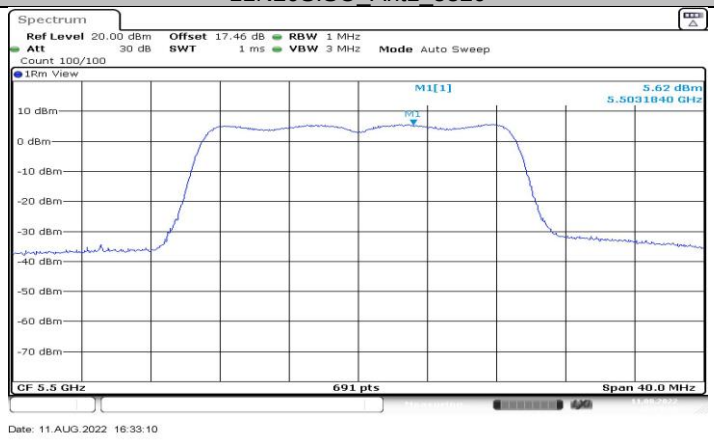
11N20SISO_Ant1_5220

11N20SISO_Ant1_5240

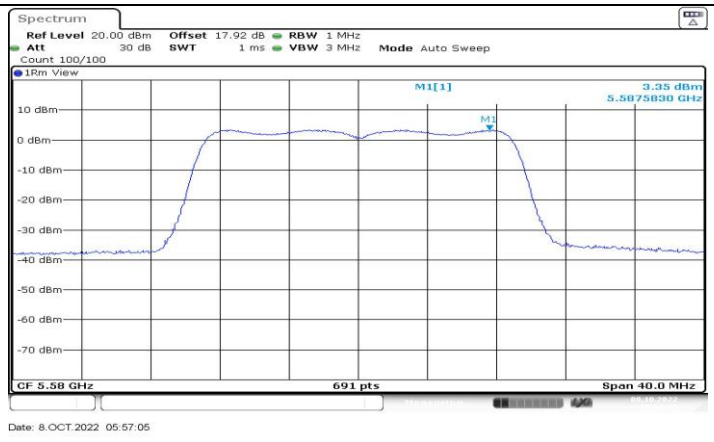
11N20SISO_Ant1_5260

11N20SISO_Ant1_5300

11N20SISO_Ant1_5320

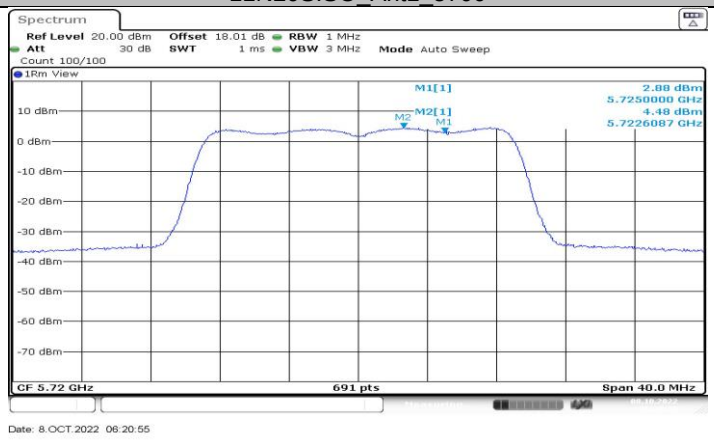


11N20SISO_Ant1_5500

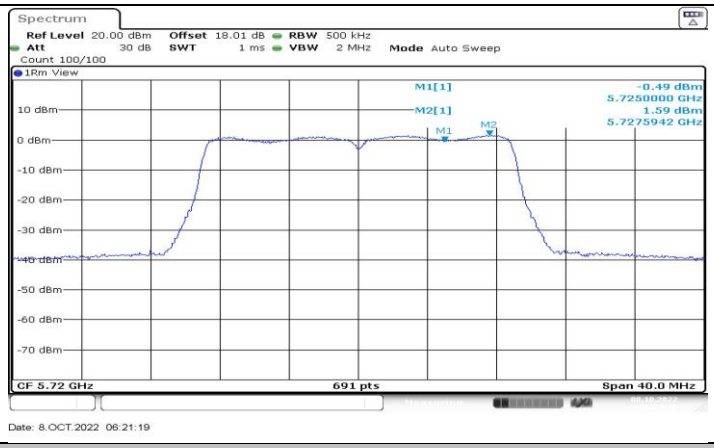


11N20SISO_Ant1_5580

11N20SISO_Ant1_5700



11N20SISO_Ant1_5720_UNII-2C



11N20SISO_Ant1_5720_UNII-3

11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

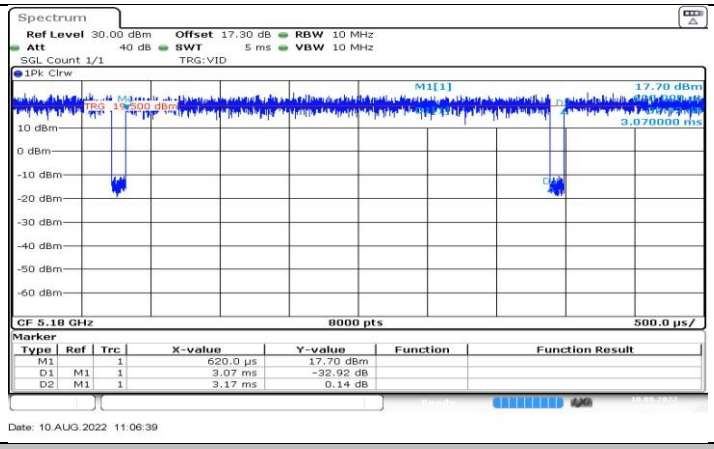
11.6. APPENDIX F: DUTY CYCLE

11.6.1. Test Result

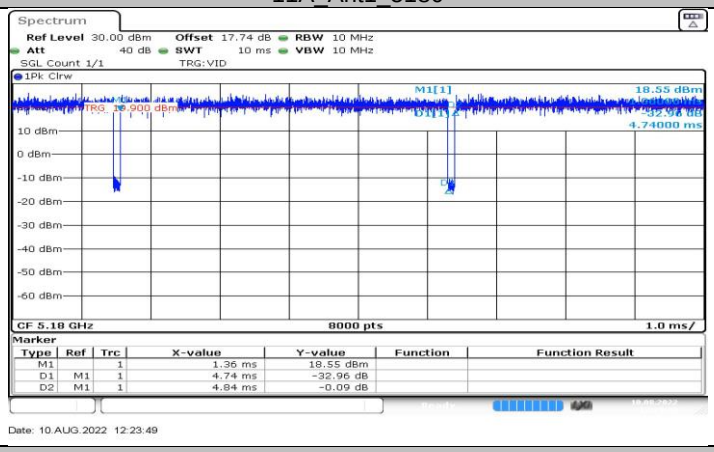
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	8.38	8.41	0.9964	99.64	0.02	0.12	0.5
11N20SISO	1.39	1.43	0.9720	97.20	0.12	0.72	1

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

11.6.2. Test Graphs



11A_Ant1_5180



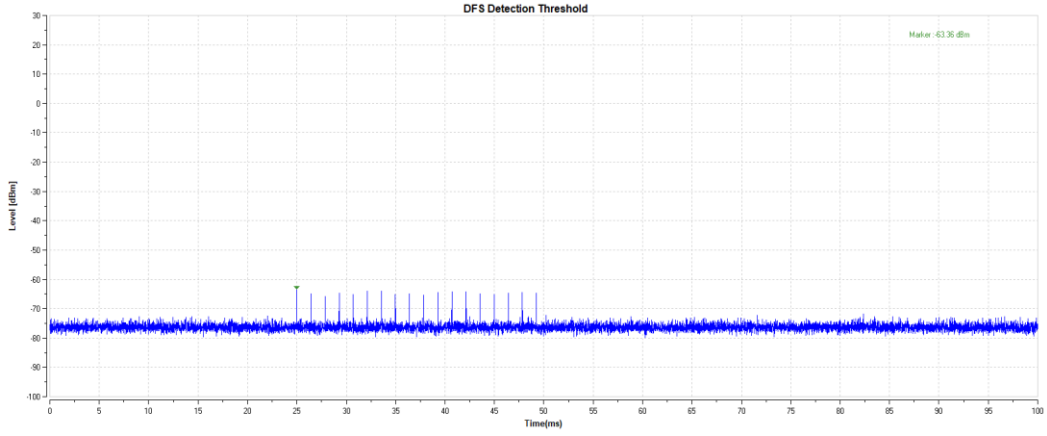
11N20SISO_Ant1_5180

11.7. APPENDIX G: DFS DETECTION THRESHOLDS

11.7.1. Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11A	5500	Type0	-63.36	-59.45	PASS

11.7.2. Test Graphs



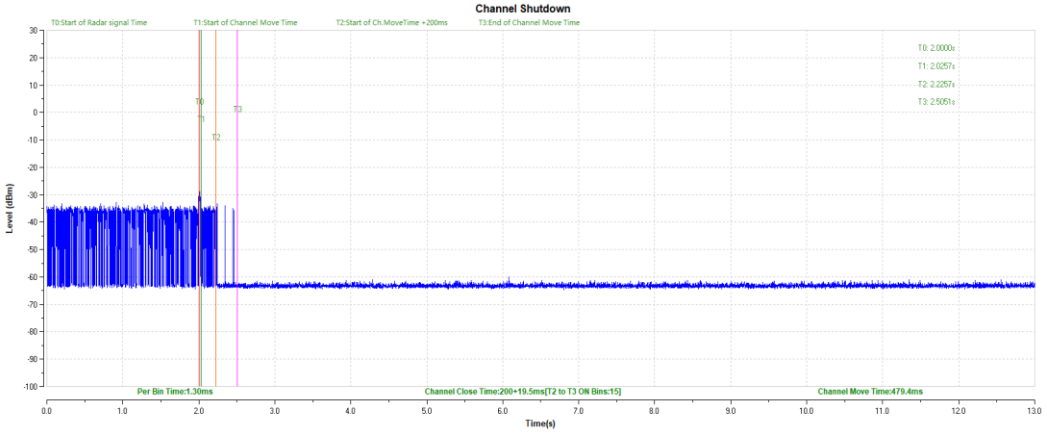
11A_5500_Type0

11.8. APPENDIX H: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.8.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5500	200+19.5	200+60	479.4	10000	PASS

11.8.2. Test Graphs



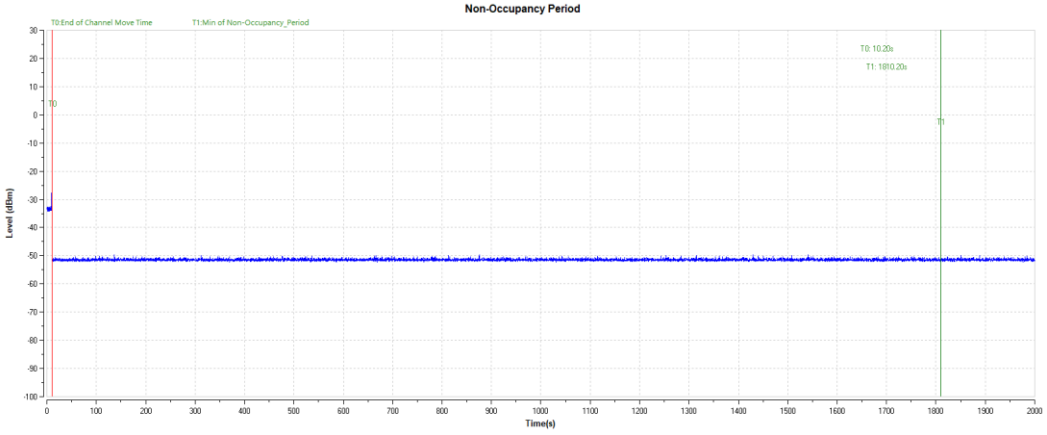
11A_5500

11.9. APPENDIX I: NON-OCCUPANCY PERIOD

Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11A	5500	see test graph	≥1800	PASS

11.9.1. Test Graphs



11A_5500

11.10. APPENDIX J: FREQUENCY STABILITY

11.10.1. 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	5200.0165	3.17	5200.0047	0.90	5199.9772	-4.38	5199.9999	-0.01
TN	VN	5200.0204	3.92	5200.0087	1.67	5200.0076	1.46	5200.0062	1.18
TN	VH	5200.0008	0.15	5199.9769	-4.44	5199.9975	-0.48	5200.0042	0.80
Frequency Error vs. Temperature									
802.11a: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)
60	VN	5200.0057	1.10	5200.0064	1.24	5199.9806	-3.73	5199.9794	-3.96
50	VN	5199.9979	-0.41	5200.0190	3.65	5200.0073	1.40	5199.9764	-4.53
40	VN	5200.0049	0.94	5199.9921	-1.53	5200.0047	0.91	5199.9769	-4.44
30	VN	5199.9978	-0.43	5199.9835	-3.17	5199.9889	-2.14	5200.0169	3.25
20	VN	5200.0063	1.22	5200.0015	0.28	5200.0106	2.04	5199.9828	-3.30
10	VN	5200.0187	3.60	5200.0055	1.06	5199.9898	-1.97	5199.9777	-4.30
0	VN	5199.9937	-1.22	5200.0055	1.05	5199.9750	-4.80	5199.9887	-2.16
-10	VN	5200.0144	2.77	5199.9929	-1.37	5200.0220	4.23	5200.0175	3.37
-20	VN	5199.9843	-3.01	5199.9892	-2.09	5200.0001	0.01	5200.0141	2.71
-30	VN	5200.0096	1.85	5200.0022	0.42	5200.0030	0.59	5199.9992	-0.16

Note:
1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

Frequency Error vs. Voltage									
802.11a: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	5825.0164	2.82	5824.9904	-1.65	5824.9883	-2.00	5825.0074	1.27
TN	VN	5824.9955	-0.77	5824.9751	-4.28	5825.0191	3.27	5825.0240	4.13
TN	VH	5824.9942	-1.00	5824.9763	-4.06	5825.0169	2.90	5825.0101	1.73

Frequency Error vs. Temperature									
802.11a: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)
60	VN	5200.0028	0.54	5199.9980	-0.38	5199.9895	-2.01	5199.9889	-2.13
50	VN	5199.9906	-1.80	5199.9850	-2.89	5200.0012	0.23	5200.0113	2.18
40	VN	5824.9788	-3.64	5825.0088	1.51	5824.9883	-2.02	5825.0049	0.84
30	VN	5824.9908	-1.58	5824.9834	-2.85	5824.9914	-1.48	5824.9813	-3.22
20	VN	5825.0075	1.29	5824.9758	-4.16	5824.9751	-4.28	5824.9994	-0.10
10	VN	5825.0146	2.51	5825.0240	4.11	5824.9936	-1.10	5825.0076	1.30
0	VN	5825.0198	3.40	5824.9881	-2.05	5824.9891	-1.88	5825.0054	0.93
-10	VN	5825.0034	0.59	5824.9801	-3.41	5824.9790	-3.60	5824.9952	-0.82
-20	VN	5824.9805	-3.34	5825.0125	2.15	5825.0043	0.73	5825.0233	4.00
-30	VN	5825.0022	0.37	5825.0172	2.95	5824.9929	-1.22	5825.0010	0.17

Note:
1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

END OF REPORT