

Appendix A: Test Results of 5GHz Wi-Fi

APPENDIX A: TEST RESULTS OF 5GHZ WI-FI.....	1
APPENDIX A.1: TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER.....	2
APPENDIX A.2: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....	4
APPENDIX A.3: TEST RESULTS OF FREQUENCY STABILITY	26
APPENDIX A.4: TEST RESULTS OF 26DB BANDWIDTH	27
APPENDIX A.5: TEST RESULTS OF 99% BANDWIDTH.....	49
APPENDIX A.6: TEST RESULTS OF 6DB BANDWIDTH	71
APPENDIX A.7: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	77
30MHz - 1GHz (Worst case)	77
1GHz - 18GHz.....	79
APPENDIX A.8: TEST RESULTS OF DYNAMIC FREQUENCY SELECTION (DFS)	189
APPENDIX A.9: TEST RESULTS OF CONDUCTED EMISSION	195

Appendix A.1: Test Results of Maximum Conducted Output Power

Test Mode	Antenna	Frequency[MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	---	14.90	96.53	0.15	15.05	≤23.98	PASS
		5220	---	14.46	96.53	0.15	14.61	≤23.98	PASS
		5240	---	14.82	97.20	0.12	14.94	≤23.98	PASS
		5260	---	14.85	96.53	0.15	15.00	≤23.98	PASS
		5300	---	14.45	96.53	0.15	14.60	≤23.98	PASS
		5320	---	14.62	97.20	0.12	14.74	≤23.98	PASS
		5500	---	14.64	96.53	0.15	14.79	≤23.98	PASS
		5580	---	14.70	96.53	0.15	14.85	≤23.98	PASS
		5700	---	14.78	97.22	0.12	14.90	≤23.98	PASS
		5745	---	14.62	97.20	0.12	14.74	≤30.00	PASS
		5785	---	14.71	97.20	0.12	14.83	≤30.00	PASS
		5825	---	14.62	96.53	0.15	14.77	≤30.00	PASS
11N20SISO	Ant1	5180	---	12.94	97.01	0.13	13.07	≤23.98	PASS
		5220	---	12.77	96.30	0.16	12.93	≤23.98	PASS
		5240	---	12.81	96.30	0.16	12.97	≤23.98	PASS
		5260	---	12.59	97.01	0.13	12.72	≤23.98	PASS
		5300	---	12.38	96.30	0.16	12.54	≤23.98	PASS
		5320	---	12.76	97.01	0.13	12.89	≤23.98	PASS
		5500	---	12.77	96.99	0.13	12.90	≤23.98	PASS
		5580	---	12.91	96.99	0.13	13.04	≤23.98	PASS
		5700	---	13.16	96.99	0.13	13.29	≤23.98	PASS
		5745	---	13.01	96.30	0.16	13.17	≤30.00	PASS
		5785	---	12.84	97.01	0.13	12.97	≤30.00	PASS
		5825	---	12.91	97.01	0.13	13.04	≤30.00	PASS
11N40SISO	Ant1	5190	---	12.81	92.65	0.33	13.14	≤23.98	PASS
		5230	---	12.49	94.12	0.26	12.75	≤23.98	PASS
		5270	---	12.59	92.65	0.33	12.92	≤23.98	PASS
		5310	---	12.45	92.65	0.33	12.78	≤23.98	PASS
		5510	---	13.01	94.12	0.26	13.27	≤23.98	PASS
		5550	---	12.85	94.12	0.26	13.11	≤23.98	PASS
		5670	---	12.35	94.12	0.26	12.61	≤23.98	PASS
		5755	---	12.43	94.12	0.26	12.69	≤30.00	PASS
		5795	---	12.81	94.12	0.26	13.07	≤30.00	PASS
11AC20SISO	Ant1	5180	---	11.00	96.32	0.16	11.16	≤23.98	PASS
		5220	---	10.73	96.32	0.16	10.89	≤23.98	PASS
		5240	---	10.76	96.32	0.16	10.92	≤23.98	PASS
		5260	---	10.56	96.32	0.16	10.72	≤23.98	PASS
		5300	---	10.70	97.04	0.13	10.83	≤23.98	PASS
		5320	---	10.81	96.32	0.16	10.97	≤23.98	PASS
		5500	---	10.82	96.32	0.16	10.98	≤23.98	PASS
		5580	---	10.54	96.32	0.16	10.70	≤23.98	PASS
		5700	---	10.75	96.32	0.16	10.91	≤23.98	PASS
		5745	---	11.04	97.04	0.13	11.17	≤30.00	PASS
		5785	---	10.59	96.32	0.16	10.75	≤30.00	PASS
		5825	---	11.12	96.32	0.16	11.28	≤30.00	PASS
11AC40SISO	Ant1	5190	---	10.45	92.86	0.32	10.77	≤23.98	PASS

		5230	---	10.57	94.20	0.26	10.83	≤23.98	PASS
		5270	---	10.78	92.86	0.32	11.10	≤23.98	PASS
		5310	---	10.52	92.86	0.32	10.84	≤23.98	PASS
		5510	---	10.62	94.29	0.26	10.88	≤23.98	PASS
		5550	---	10.48	92.86	0.32	10.80	≤23.98	PASS
		5670	---	10.68	92.86	0.32	11.00	≤23.98	PASS
		5755	---	10.50	94.29	0.26	10.76	≤30.00	PASS
		5795	---	10.85	92.86	0.32	11.17	≤30.00	PASS
11AC80SISO	Ant1	5210	---	10.45	89.19	0.50	10.95	≤23.98	PASS
		5290	---	10.70	89.19	0.50	11.20	≤23.98	PASS
		5530	---	10.26	89.19	0.50	10.76	≤23.98	PASS
		5610	---	11.16	86.49	0.63	10.53	≤23.98	PASS
		5775	---	10.28	88.89	0.51	10.79	≤30.00	PASS

Appendix A.2: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.03	≤11.00	PASS
		5220	4.11	≤11.00	PASS
		5240	4.14	≤11.00	PASS
		5260	4.89	≤11.00	PASS
		5300	4.28	≤11.00	PASS
		5320	5.22	≤11.00	PASS
		5500	5.77	≤11.00	PASS
		5580	5.42	≤11.00	PASS
		5700	5.75	≤11.00	PASS
		5745	2.87	≤30.00	PASS
		5785	2.53	≤30.00	PASS
		5825	2.11	≤30.00	PASS
11N20SISO	Ant1	5180	3.12	≤11.00	PASS
		5220	2.52	≤11.00	PASS
		5240	2.13	≤11.00	PASS
		5260	2.31	≤11.00	PASS
		5300	2.07	≤11.00	PASS
		5320	2.99	≤11.00	PASS
		5500	3.27	≤11.00	PASS
		5580	3.16	≤11.00	PASS
		5700	3.87	≤11.00	PASS
		5745	0.96	≤30.00	PASS
		5785	0.53	≤30.00	PASS
		5825	0.34	≤30.00	PASS
11N40SISO	Ant1	5190	0.31	≤11.00	PASS
		5230	-0.45	≤11.00	PASS
		5270	0.1	≤11.00	PASS
		5310	-0.81	≤11.00	PASS
		5510	1.11	≤11.00	PASS
		5550	0.22	≤11.00	PASS
		5670	0.42	≤11.00	PASS
		5755	-2.64	≤30.00	PASS
		5795	-2.26	≤30.00	PASS
11AC20SISO	Ant1	5180	1.18	≤11.00	PASS
		5220	1.04	≤11.00	PASS
		5240	0.52	≤11.00	PASS
		5260	0.46	≤11.00	PASS
		5300	0.39	≤11.00	PASS
		5320	1.38	≤11.00	PASS
		5500	1.47	≤11.00	PASS
		5580	0.52	≤11.00	PASS
		5700	-7.05	≤11.00	PASS

		5745	-1.08	≤30.00	PASS
		5785	-2.18	≤30.00	PASS
		5825	-1.65	≤30.00	PASS
11AC40SISO	Ant1	5190	-2.27	≤11.00	PASS
		5230	-2.65	≤11.00	PASS
		5270	-1.66	≤11.00	PASS
		5310	-2.46	≤11.00	PASS
		5510	-1.85	≤11.00	PASS
		5550	-2.59	≤11.00	PASS
		5670	-1.17	≤11.00	PASS
		5755	-5.05	≤30.00	PASS
		5795	-4.77	≤30.00	PASS
11AC80SISO	Ant1	5210	-5.61	≤11.00	PASS
		5290	-5.12	≤11.00	PASS
		5530	-5.55	≤11.00	PASS
		5610	-5.68	≤11.00	PASS
		5775	-7.69	≤30.00	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.





























