





















































Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	---	13.56	72.40	1.40	14.96	≤23.98	PASS
11A	Ant2	5180	---	12.72	72.77	1.38	14.10	≤23.98	PASS
11A	Ant1	5200	---	13.42	72.40	1.40	14.82	≤23.98	PASS
11A	Ant2	5200	---	13.44	72.40	1.40	14.84	≤23.98	PASS
11A	Ant1	5240	---	13.11	72.40	1.40	14.51	≤23.98	PASS
11A	Ant2	5240	---	13.16	72.77	1.38	14.54	≤23.98	PASS
11A	Ant1	5745	---	10.98	72.77	1.38	12.36	≤30.00	PASS
11A	Ant2	5745	---	11.28	72.77	1.38	12.66	≤30.00	PASS
11A	Ant1	5785	---	10.43	72.92	1.37	11.80	≤30.00	PASS
11A	Ant2	5785	---	10.91	72.92	1.37	12.28	≤30.00	PASS
11A	Ant1	5825	---	10.47	72.77	1.38	11.85	≤30.00	PASS
11A	Ant2	5825	---	10.80	73.16	1.36	12.16	≤30.00	PASS
11N20MIMO	Ant1	5180	---	13.32	71.43	1.46	14.78	≤23.98	PASS
11N20MIMO	Ant2	5180	---	13.39	71.43	1.46	14.85	≤23.98	PASS
11N20MIMO	total	5180	---	---	---	---	17.83	≤23.98	PASS
11N20MIMO	Ant1	5200	---	13.06	71.04	1.48	14.54	≤23.98	PASS
11N20MIMO	Ant2	5200	---	13.17	71.04	1.48	14.65	≤23.98	PASS
11N20MIMO	total	5200	---	---	---	---	17.61	≤23.98	PASS
11N20MIMO	Ant1	5240	---	12.71	71.43	1.46	14.17	≤23.98	PASS
11N20MIMO	Ant2	5240	---	12.95	71.43	1.46	14.41	≤23.98	PASS
11N20MIMO	total	5240	---	---	---	---	17.30	≤23.98	PASS
11N20MIMO	Ant1	5745	---	10.76	71.43	1.46	12.22	≤30.00	PASS
11N20MIMO	Ant2	5745	---	11.16	71.43	1.46	12.62	≤30.00	PASS
11N20MIMO	total	5745	---	---	---	---	15.43	≤29.11	PASS
11N20MIMO	Ant1	5785	---	10.24	71.04	1.48	11.72	≤30.00	PASS
11N20MIMO	Ant2	5785	---	10.67	71.58	1.45	12.12	≤30.00	PASS
11N20MIMO	total	5785	---	---	---	---	14.93	≤29.11	PASS
11N20MIMO	Ant1	5825	---	10.20	71.04	1.48	11.68	≤30.00	PASS
11N20MIMO	Ant2	5825	---	10.48	71.58	1.45	11.93	≤30.00	PASS
11N20MIMO	total	5825	---	---	---	---	14.82	≤29.11	PASS
11N40MIMO	Ant1	5190	---	12.71	55.17	2.58	15.29	≤23.98	PASS
11N40MIMO	Ant2	5190	---	11.50	55.17	2.58	14.08	≤23.98	PASS
11N40MIMO	total	5190	---	---	---	---	17.74	≤23.98	PASS
11N40MIMO	Ant1	5230	---	12.22	55.17	2.58	14.80	≤23.98	PASS
11N40MIMO	Ant2	5230	---	12.21	54.62	2.63	14.84	≤23.98	PASS
11N40MIMO	total	5230	---	---	---	---	17.83	≤23.98	PASS

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11N40MIMO	Ant1	5755	---	9.87	55.17	2.58	12.45	≤30.00	PASS
11N40MIMO	Ant2	5755	---	10.08	55.17	2.58	12.66	≤30.00	PASS
11N40MIMO	total	5755	---	---	---	---	15.57	≤29.11	PASS
11N40MIMO	Ant1	5795	---	9.39	58.04	2.36	11.75	≤30.00	PASS
11N40MIMO	Ant2	5795	---	9.72	57.52	2.40	12.12	≤30.00	PASS
11N40MIMO	total	5795	---	---	---	---	14.95	≤29.11	PASS
11AC20MIMO	Ant1	5180	---	13.48	72.38	1.40	14.88	≤23.98	PASS
11AC20MIMO	Ant2	5180	---	13.45	69.31	1.59	15.04	≤23.98	PASS
11AC20MIMO	total	5180	---	---	---	---	17.97	≤23.98	PASS
11AC20MIMO	Ant1	5200	---	13.29	72.38	1.40	14.69	≤23.98	PASS
11AC20MIMO	Ant2	5200	---	13.48	70.97	1.49	14.97	≤23.98	PASS
11AC20MIMO	total	5200	---	---	---	---	17.84	≤23.98	PASS
11AC20MIMO	Ant1	5240	---	13.02	71.58	1.45	14.47	≤23.98	PASS
11AC20MIMO	Ant2	5240	---	13.17	71.58	1.45	14.62	≤23.98	PASS
11AC20MIMO	total	5240	---	---	---	---	17.56	≤23.98	PASS
11AC20MIMO	Ant1	5745	---	10.97	72.38	1.40	12.37	≤30.00	PASS
11AC20MIMO	Ant2	5745	---	11.05	70.81	1.50	12.55	≤30.00	PASS
11AC20MIMO	total	5745	---	---	---	---	15.47	≤29.11	PASS
11AC20MIMO	Ant1	5785	---	10.38	71.20	1.48	11.86	≤30.00	PASS
11AC20MIMO	Ant2	5785	---	10.75	70.81	1.50	12.25	≤30.00	PASS
11AC20MIMO	total	5785	---	---	---	---	15.07	≤29.11	PASS
11AC20MIMO	Ant1	5825	---	10.33	72.38	1.40	11.73	≤30.00	PASS
11AC20MIMO	Ant2	5825	---	10.55	71.98	1.43	11.98	≤30.00	PASS
11AC20MIMO	total	5825	---	---	---	---	14.87	≤29.11	PASS
11AC40MIMO	Ant1	5190	---	12.53	55.93	2.52	15.05	≤23.98	PASS
11AC40MIMO	Ant2	5190	---	12.64	58.41	2.34	14.98	≤23.98	PASS
11AC40MIMO	total	5190	---	---	---	---	18.03	≤23.98	PASS
11AC40MIMO	Ant1	5230	---	12.23	55.56	2.55	14.78	≤23.98	PASS
11AC40MIMO	Ant2	5230	---	12.41	55.08	2.59	15.00	≤23.98	PASS
11AC40MIMO	total	5230	---	---	---	---	17.90	≤23.98	PASS
11AC40MIMO	Ant1	5755	---	9.82	55.56	2.55	12.37	≤30.00	PASS
11AC40MIMO	Ant2	5755	---	10.10	55.08	2.59	12.69	≤30.00	PASS
11AC40MIMO	total	5755	---	---	---	---	15.54	≤29.11	PASS
11AC40MIMO	Ant1	5795	---	9.33	55.56	2.55	11.88	≤30.00	PASS
11AC40MIMO	Ant2	5795	---	9.70	55.08	2.59	12.29	≤30.00	PASS
11AC40MIMO	total	5795	---	---	---	---	15.10	≤29.11	PASS
11AC80MIMO	Ant1	5210	---	11.28	48.48	3.14	14.42	≤23.98	PASS
11AC80MIMO	Ant2	5210	---	11.48	44.44	3.52	15.00	≤23.98	PASS
11AC80MIMO	total	5210	---	---	---	---	17.73	≤23.98	PASS
11AC80MIMO	Ant1	5775	---	8.65	45.83	3.39	12.04	≤30.00	PASS
11AC80MIMO	Ant2	5775	---	8.94	45.21	3.45	12.39	≤30.00	PASS
11AC80MIMO	total	5775	---	---	---	---	15.23	≤29.11	PASS

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11AX20MIMO	Ant1	5180	---	12.96	66.01	1.80	14.76	≤23.98	PASS
11AX20MIMO	Ant2	5180	---	13.39	65.58	1.83	15.22	≤23.98	PASS
11AX20MIMO	total	5180	---	---	---	---	18.01	≤23.98	PASS
11AX20MIMO	Ant1	5200	---	12.70	66.23	1.79	14.49	≤23.98	PASS
11AX20MIMO	Ant2	5200	---	13.21	66.23	1.79	15.00	≤23.98	PASS
11AX20MIMO	total	5200	---	---	---	---	17.76	≤23.98	PASS
11AX20MIMO	Ant1	5240	---	12.36	66.01	1.80	14.16	≤23.98	PASS
11AX20MIMO	Ant2	5240	---	12.93	66.01	1.80	14.73	≤23.98	PASS
11AX20MIMO	total	5240	---	---	---	---	17.46	≤23.98	PASS
11AX20MIMO	Ant1	5745	---	10.46	66.01	1.80	12.26	≤30.00	PASS
11AX20MIMO	Ant2	5745	---	10.92	65.58	1.83	12.75	≤30.00	PASS
11AX20MIMO	total	5745	---	---	---	---	15.52	≤29.11	PASS
11AX20MIMO	Ant1	5785	---	9.79	66.23	1.79	11.58	≤30.00	PASS
11AX20MIMO	Ant2	5785	---	10.56	68.00	1.67	12.23	≤30.00	PASS
11AX20MIMO	total	5785	---	---	---	---	14.93	≤29.11	PASS
11AX20MIMO	Ant1	5825	---	9.83	75.56	1.22	11.05	≤30.00	PASS
11AX20MIMO	Ant2	5825	---	10.35	67.11	1.73	12.08	≤30.00	PASS
11AX20MIMO	total	5825	---	---	---	---	14.61	≤29.11	PASS
11AX40MIMO	Ant1	5190	---	11.99	50.94	2.93	14.92	≤23.98	PASS
11AX40MIMO	Ant2	5190	---	12.41	50.48	2.97	15.38	≤23.98	PASS
11AX40MIMO	total	5190	---	---	---	---	18.17	≤23.98	PASS
11AX40MIMO	Ant1	5230	---	11.70	51.46	2.89	14.59	≤23.98	PASS
11AX40MIMO	Ant2	5230	---	12.15	51.92	2.85	15.00	≤23.98	PASS
11AX40MIMO	total	5230	---	---	---	---	17.81	≤23.98	PASS
11AX40MIMO	Ant1	5755	---	9.28	51.92	2.85	12.13	≤30.00	PASS
11AX40MIMO	Ant2	5755	---	10.15	51.46	2.89	13.04	≤30.00	PASS
11AX40MIMO	total	5755	---	---	---	---	15.62	≤29.11	PASS
11AX40MIMO	Ant1	5795	---	8.97	50.00	3.01	11.98	≤30.00	PASS
11AX40MIMO	Ant2	5795	---	9.91	50.00	3.01	12.92	≤30.00	PASS
11AX40MIMO	total	5795	---	---	---	---	15.49	≤29.11	PASS
11AX80MIMO	Ant1	5210	---	10.22	35.80	4.46	14.68	≤23.98	PASS
11AX80MIMO	Ant2	5210	---	11.08	35.80	4.46	15.54	≤23.98	PASS
11AX80MIMO	total	5210	---	---	---	---	18.14	≤23.98	PASS
11AX80MIMO	Ant1	5775	---	7.61	35.80	4.46	12.07	≤30.00	PASS
11AX80MIMO	Ant2	5775	---	8.60	35.80	4.46	13.06	≤30.00	PASS
11AX80MIMO	total	5775	---	---	---	---	15.60	≤29.11	PASS

Note: 1.The cable loss are compensated in the graph.

2.WiFi 5.2G: As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=4.76<6dBi,
so limit=23.98dBm.

WiFi 5.8G: As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=6.89>6dBi,
so limit=30-(6.89-6)dBm=29.11dBm.

3.NOTE: MIMO= $10 \cdot \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

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Test Graphs Channel Power



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