



















## Appendix C): Power Spectral Density

**Result Table**

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	6.85	6.85	PASS
11A	Ant2	5180	6.22	6.22	PASS
11A	Ant1	5200	6.87	6.87	PASS
11A	Ant2	5200	6.76	6.76	PASS
11A	Ant1	5240	6.31	6.31	PASS
11A	Ant2	5240	6.82	6.82	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant1	5745	5.82	6.42	PASS
11A	Ant2	5745	6.87	7.47	PASS
11A	Ant1	5785	5.68	6.28	PASS
11A	Ant2	5785	5.82	6.41	PASS
11A	Ant1	5825	6.55	7.14	PASS
11A	Ant2	5825	5.65	6.25	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	6.53	6.53	PASS
11N20SISO	Ant2	5180	5.74	5.74	PASS
11N20SISO	Ant1	5200	6.16	6.16	PASS
11N20SISO	Ant2	5200	5.83	5.83	PASS
11N20SISO	Ant1	5240	5.95	5.95	PASS
11N20SISO	Ant2	5240	6.83	6.83	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant1	5745	4.35	4.98	PASS
11N20SISO	Ant2	5745	4.79	5.42	PASS
11N20SISO	Ant1	5785	4.75	5.38	PASS
11N20SISO	Ant2	5785	4.25	4.88	PASS
11N20SISO	Ant1	5825	4.31	4.94	PASS
11N20SISO	Ant2	5825	5.02	5.65	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	3.80	5.00	PASS
11N40SISO	Ant2	5190	5.17	6.37	PASS
11N40SISO	Ant1	5230	4.23	5.41	PASS
11N40SISO	Ant2	5230	3.86	5.04	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant1	5755	0.72	1.92	PASS
11N40SISO	Ant2	5755	2.18	3.37	PASS
11N40SISO	Ant1	5795	0.24	1.42	PASS
11N40SISO	Ant2	5795	1.16	2.36	PASS

<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/MHz]</b>	<b>Verdict</b>
11AC20SISO	Ant1	5180	6.45	6.45	PASS
11AC20SISO	Ant2	5180	6.86	6.86	PASS
11AC20SISO	Ant1	5200	6.69	6.69	PASS
11AC20SISO	Ant2	5200	5.92	5.92	PASS
11AC20SISO	Ant1	5240	6.00	6.00	PASS
11AC20SISO	Ant2	5240	6.03	6.03	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/500kHz]</b>	<b>Verdict</b>
11AC20SISO	Ant1	5745	4.71	5.35	PASS
11AC20SISO	Ant2	5745	5.76	6.40	PASS
11AC20SISO	Ant1	5785	4.70	5.33	PASS
11AC20SISO	Ant2	5785	5.48	6.11	PASS
11AC20SISO	Ant1	5825	4.05	4.69	PASS
11AC20SISO	Ant2	5825	4.87	5.50	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/MHz]</b>	<b>Verdict</b>
11AC40SISO	Ant1	5190	4.18	5.40	PASS
11AC40SISO	Ant2	5190	4.42	5.63	PASS
11AC40SISO	Ant1	5230	4.33	5.55	PASS
11AC40SISO	Ant2	5230	4.77	5.98	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/500kHz]</b>	<b>Verdict</b>
11AC40SISO	Ant1	5755	0.80	2.00	PASS
11AC40SISO	Ant2	5755	1.16	2.36	PASS
11AC40SISO	Ant1	5795	0.15	1.37	PASS
11AC40SISO	Ant2	5795	1.31	2.52	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/MHz]</b>	<b>Verdict</b>
11AC80SISO	Ant1	5210	4.10	6.21	PASS
11AC80SISO	Ant2	5210	3.98	6.09	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/500kHz]</b>	<b>Verdict</b>
11AC80SISO	Ant1	5775	0.31	2.46	PASS
11AC80SISO	Ant2	5775	0.17	2.31	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/MHz]</b>	<b>Verdict</b>
11N20MIMO	Ant1	5180	3.80	3.80	PASS
11N20MIMO	Ant2	5180	3.65	3.65	PASS
11N20MIMO	Ant 1+2	5180	6.73	6.73	PASS
11N20MIMO	Ant1	5200	3.32	3.32	PASS
11N20MIMO	Ant2	5200	3.94	3.94	PASS
11N20MIMO	Ant 1+2	5200	6.64	6.64	PASS
11N20MIMO	Ant1	5240	3.61	3.61	PASS
11N20MIMO	Ant2	5240	4.09	4.09	PASS
11N20MIMO	Ant 1+2	5240	6.86	6.86	PASS
<b>Test Mode</b>	<b>Antenna</b>	<b>Channel</b>	<b>Meas.Level [dBm]</b>	<b>PSD [dBm/500kHz]</b>	<b>Verdict</b>

11N20MIMO	Ant1	5745	2.34	2.97	PASS
11N20MIMO	Ant2	5745	1.15	1.78	PASS
11N20MIMO	Ant 1+2	5745	4.80	5.43	PASS
11N20MIMO	Ant1	5785	1.72	2.35	PASS
11N20MIMO	Ant2	5785	0.87	1.50	PASS
11N20MIMO	Ant 1+2	5785	4.32	4.95	PASS
11N20MIMO	Ant1	5825	2.02	2.66	PASS
11N20MIMO	Ant2	5825	1.92	2.55	PASS
11N20MIMO	Ant 1+2	5825	4.98	5.62	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40MIMO	Ant1	5190	2.09	3.28	PASS
11N40MIMO	Ant2	5190	1.64	2.82	PASS
11N40MIMO	Ant 1+2	5190	4.88	6.07	PASS
11N40MIMO	Ant1	5230	1.35	2.53	PASS
11N40MIMO	Ant2	5230	1.26	2.45	PASS
11N40MIMO	Ant 1+2	5230	4.32	5.50	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40MIMO	Ant1	5755	-2.78	-1.60	PASS
11N40MIMO	Ant2	5755	-1.68	-0.48	PASS
11N40MIMO	Ant 1+2	5755	0.82	2.01	PASS
11N40MIMO	Ant1	5795	-1.60	-0.41	PASS
11N40MIMO	Ant2	5795	-1.64	-0.44	PASS
11N40MIMO	Ant 1+2	5795	1.39	2.59	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20MIMO	Ant1	5180	3.42	3.42	PASS
11AC20MIMO	Ant2	5180	3.88	3.88	PASS
11AC20MIMO	Ant 1+2	5180	6.66	6.66	PASS
11AC20MIMO	Ant1	5200	3.25	3.25	PASS
11AC20MIMO	Ant2	5200	3.51	3.51	PASS
11AC20MIMO	Ant 1+2	5200	6.39	6.39	PASS
11AC20MIMO	Ant1	5240	2.92	2.92	PASS
11AC20MIMO	Ant2	5240	4.44	4.44	PASS
11AC20MIMO	Ant 1+2	5240	6.75	6.75	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20MIMO	Ant1	5745	0.74	1.38	PASS
11AC20MIMO	Ant2	5745	2.06	2.70	PASS
11AC20MIMO	Ant 1+2	5745	4.46	5.10	PASS
11AC20MIMO	Ant1	5785	1.71	2.34	PASS
11AC20MIMO	Ant2	5785	2.24	2.87	PASS
11AC20MIMO	Ant 1+2	5785	4.99	5.62	PASS

11AC20MIMO	Ant1	5825	1.87	2.50	PASS
11AC20MIMO	Ant2	5825	2.51	3.15	PASS
11AC20MIMO	Ant 1+2	5825	5.21	5.85	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40MIMO	Ant1	5190	1.54	2.75	PASS
11AC40MIMO	Ant2	5190	2.19	3.41	PASS
11AC40MIMO	Ant 1+2	5190	4.89	6.10	PASS
11AC40MIMO	Ant1	5230	1.29	2.50	PASS
11AC40MIMO	Ant2	5230	1.35	2.56	PASS
11AC40MIMO	Ant 1+2	5230	4.33	5.37	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40MIMO	Ant1	5755	-2.19	-0.99	PASS
11AC40MIMO	Ant2	5755	-1.52	-0.30	PASS
11AC40MIMO	Ant 1+2	5755	1.17	2.38	PASS
11AC40MIMO	Ant1	5795	-2.07	-0.86	PASS
11AC40MIMO	Ant2	5795	-1.66	-0.45	PASS
11AC40MIMO	Ant 1+2	5795	1.15	2.36	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80MIMO	Ant1	5210	0.12	2.23	PASS
11AC80MIMO	Ant2	5210	0.95	3.08	PASS
11AC80MIMO	Ant 1+2	5210	3.57	5.68	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80MIMO	Ant1	5775	-3.35	-1.23	PASS
11AC80MIMO	Ant2	5775	-2.57	-0.46	PASS
11AC80MIMO	Ant 1+2	5775	0.07	2.18	PASS

Remark:

1. E.i.r.p spectral density=PSD+G, G = antenna gain in dBi.
2. For band 1, MCS0 mode, 802.11a channel 36,5180MHz, E.i.r.p spectral density=6.85+3=9.85.

## Test Graph































