

6.2. Maximum Output Power-Conducted

6.2.1. Measurement Limit and Method

Standard	Limit (dBm)
FCC 47 CFR Part 15.407(a)	For the band 5.15–5.25 GHz, For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.2.2. Test Procedure

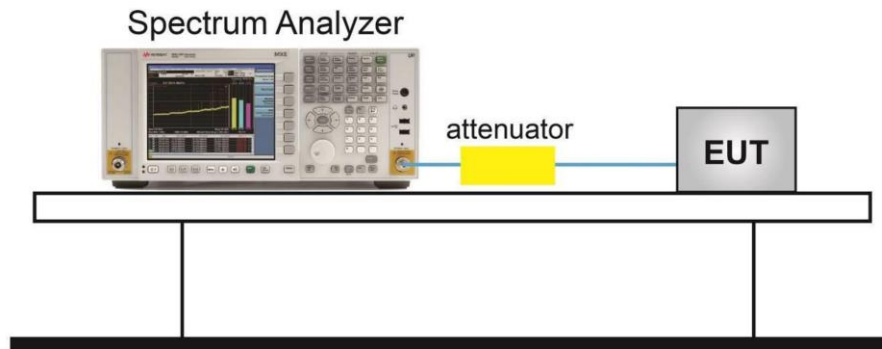
The measurement method SA-2 is made according to KDB 789033 E

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz. (iv) Set VBW \geq 3 MHz.
4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
5. Sweep time = auto.
6. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
9. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%

6.2.3. Test setup



6.2.4. Measurement Results

Test Mode	Antenna	Frequency [MHz]	Set Power	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	Verdict
11A	Ant1	5180	12	99.31	0.03	8.33	30	2.47	10.8	PASS
11A	Ant2	5180	12	98.62	0.06	9.06	30	2.47	11.53	PASS
11A	Ant1	5200	12	98.62	0.06	8.26	30	2.47	10.73	PASS
11A	Ant2	5200	12	98.62	0.06	9.22	30	2.47	11.69	PASS
11A	Ant1	5240	12	98.62	0.06	8.04	30	2.47	10.51	PASS
11A	Ant2	5240	12	98.62	0.06	8.92	30	2.47	11.39	PASS
11A	Ant1	5260	12	99.31	0.03	7.89	23.97	2.47	10.36	PASS
11A	Ant2	5260	12	98.62	0.06	8.4	23.97	2.47	10.87	PASS
11A	Ant1	5280	12	99.31	0.03	7.62	23.95	2.47	10.09	PASS
11A	Ant2	5280	12	99.31	0.03	9.44	23.95	2.47	11.91	PASS
11A	Ant1	5320	12	98.62	0.06	8.46	23.95	2.47	10.93	PASS
11A	Ant2	5320	12	99.31	0.03	9.14	23.95	2.47	11.61	PASS
11A	Ant1	5500	12	99.31	0.03	6.01	23.96	2.47	8.48	PASS
11A	Ant2	5500	12	98.62	0.06	8.59	23.94	2.47	11.06	PASS
11A	Ant1	5580	12	98.62	0.06	6.55	23.98	2.47	9.02	PASS
11A	Ant2	5580	12	98.62	0.06	8.48	23.93	2.47	10.95	PASS
11A	Ant1	5700	12	95.33	0.21	7.51	23.9	2.47	9.98	PASS
11A	Ant2	5700	12	98.62	0.06	7.98	23.97	2.47	10.45	PASS
11A-CDD	Ant1	5180	12	98.62	0.06	9.3	30	2.47	11.77	PASS
11A-CDD	Ant2	5180	12	98.62	0.06	9.67	30	2.47	12.14	PASS
11A-CDD	total	5180	12	---	---	12.5	30	---	14.97	PASS
11A-CDD	Ant1	5200	12	99.31	0.03	8.6	30	2.47	11.07	PASS
11A-CDD	Ant2	5200	12	98.62	0.06	9.58	30	2.47	12.05	PASS
11A-CDD	total	5200	12	---	---	12.13	30	---	14.6	PASS

11A-CDD	Ant1	5240	12	98.62	0.06	8.07	30	2.47	10.54	PASS
11A-CDD	Ant2	5240	12	95.33	0.21	9.33	30	2.47	11.8	PASS
11A-CDD	total	5240	12	---	---	11.76	30	---	14.23	PASS
11A-CDD	Ant1	5260	12	99.31	0.03	7.99	23.98	2.47	10.46	PASS
11A-CDD	Ant2	5260	12	98.62	0.06	8.45	23.98	2.47	10.92	PASS
11A-CDD	total	5260	12	---	---	11.24	23.98	---	13.71	PASS
11A-CDD	Ant1	5280	12	98.62	0.06	7.58	23.95	2.47	10.05	PASS
11A-CDD	Ant2	5280	12	99.31	0.03	9.39	23.96	2.47	11.86	PASS
11A-CDD	total	5280	12	---	---	11.59	23.98	---	14.06	PASS
11A-CDD	Ant1	5320	12	99.31	0.03	8.37	23.93	2.47	10.84	PASS
11A-CDD	Ant2	5320	12	98.62	0.06	9.15	23.94	2.47	11.62	PASS
11A-CDD	total	5320	12	---	---	11.79	23.98	---	14.26	PASS
11A-CDD	Ant1	5500	12	98.62	0.06	6.04	23.97	2.47	8.51	PASS
11A-CDD	Ant2	5500	12	98.62	0.06	8.57	23.98	2.47	11.04	PASS
11A-CDD	total	5500	12	---	---	10.5	23.98	---	12.97	PASS
11A-CDD	Ant1	5580	12	98.62	0.06	6.53	23.97	2.47	9	PASS
11A-CDD	Ant2	5580	12	98.62	0.06	8.37	23.98	2.47	10.84	PASS
11A-CDD	total	5580	12	---	---	10.56	23.98	---	13.03	PASS
11A-CDD	Ant2	5700	12	98.62	0.06	7.69	23.96	2.47	10.16	PASS
11A-CDD	total	5700	12	---	---	10.46	23.98	---	12.93	PASS
11A-CDD	Ant1	5700	12	98.62	0.06	7.2	23.9	2.47	9.67	PASS
11N20SISO	Ant1	5180	12	95.04	0.22	8.95	30	2.47	11.42	PASS
11N20SISO	Ant2	5180	12	98.53	0.06	9.12	30	2.47	11.59	PASS
11N20SISO	Ant1	5200	12	98.53	0.06	8.29	30	2.47	10.76	PASS
11N20SISO	Ant2	5200	12	98.53	0.06	9.2	30	2.47	11.67	PASS
11N20SISO	Ant1	5240	12	99.26	0.03	7.95	30	2.47	10.42	PASS
11N20SISO	Ant2	5240	12	98.53	0.06	8.9	30	2.47	11.37	PASS
11N20SISO	Ant1	5260	12	99.26	0.03	7.91	23.98	2.47	10.38	PASS
11N20SISO	Ant2	5260	12	98.53	0.06	8.38	23.98	2.47	10.85	PASS
11N20SISO	Ant1	5280	12	98.53	0.06	7.57	23.98	2.47	10.04	PASS
11N20SISO	Ant2	5280	12	98.53	0.06	9.42	23.98	2.47	11.89	PASS
11N20SISO	Ant1	5320	12	98.53	0.06	8.48	23.98	2.47	10.95	PASS
11N20SISO	Ant2	5320	12	98.53	0.06	9.2	23.98	2.47	11.67	PASS
11N20SISO	Ant1	5500	12	99.26	0.03	6.05	23.98	2.47	8.52	PASS
11N20SISO	Ant2	5500	12	98.53	0.06	8.59	23.98	2.47	11.06	PASS
11N20SISO	Ant1	5580	12	95.04	0.22	6.58	23.98	2.47	9.05	PASS
11N20SISO	Ant2	5580	12	99.26	0.03	8.44	23.98	2.47	10.91	PASS
11N20SISO	Ant1	5700	12	98.53	0.06	7.44	23.98	2.47	9.91	PASS
11N20SISO	Ant2	5700	12	99.26	0.03	7.95	23.98	2.47	10.42	PASS
11N20MIMO	Ant1	5180	12	98.59	0.06	8.31	30	2.47	10.78	PASS
11N20MIMO	Ant2	5180	12	97.18	0.12	8.53	30	2.47	11	PASS
11N20MIMO	total	5180	12	---	---	11.43	30	---	13.9	PASS

11N20MIMO	Ant1	5200	12	98.57	0.06	7.87	30	2.47	10.34	PASS
11N20MIMO	Ant2	5200	12	98.59	0.06	8.65	30	2.47	11.12	PASS
11N20MIMO	total	5200	12	---	---	11.29	30	---	13.76	PASS
11N20MIMO	Ant1	5240	12	98.59	0.06	7.63	30	2.47	10.1	PASS
11N20MIMO	Ant2	5240	12	97.18	0.12	8.51	30	2.47	10.98	PASS
11N20MIMO	total	5240	12	---	---	11.1	30	---	13.57	PASS
11N20MIMO	Ant1	5260	12	97.18	0.12	7.63	23.98	2.47	10.1	PASS
11N20MIMO	Ant2	5260	12	97.18	0.12	8.33	23.98	2.47	10.8	PASS
11N20MIMO	total	5260	12	---	---	11	23.98	---	13.47	PASS
11N20MIMO	Ant1	5280	12	98.59	0.06	7.2	23.98	2.47	9.67	PASS
11N20MIMO	Ant2	5280	12	98.57	0.06	9.25	23.98	2.47	11.72	PASS
11N20MIMO	total	5280	12	---	---	11.36	23.98	---	13.83	PASS
11N20MIMO	Ant1	5320	12	98.57	0.06	8.04	23.98	2.47	10.51	PASS
11N20MIMO	Ant2	5320	12	92.11	0.36	9.29	23.98	2.47	11.76	PASS
11N20MIMO	total	5320	12	---	---	11.72	23.98	---	14.19	PASS
11N20MIMO	Ant1	5500	12	97.18	0.12	5.87	23.98	2.47	8.34	PASS
11N20MIMO	Ant2	5500	12	98.59	0.06	8.28	23.98	2.47	10.75	PASS
11N20MIMO	total	5500	12	---	---	10.25	23.98	---	12.72	PASS
11N20MIMO	Ant1	5580	12	97.18	0.12	6.26	23.98	2.47	8.73	PASS
11N20MIMO	Ant2	5580	12	97.18	0.12	8.24	23.98	2.47	10.71	PASS
11N20MIMO	total	5580	12	---	---	10.37	23.98	---	12.84	PASS
11N20MIMO	Ant1	5700	12	98.59	0.06	6.97	23.98	2.47	9.44	PASS
11N20MIMO	Ant2	5700	12	97.18	0.12	7.61	23.98	2.47	10.08	PASS
11N20MIMO	total	5700	12	---	---	10.31	23.98	---	12.78	PASS
11N40SISO	Ant1	5190	11	97.06	0.13	7.83	30	2.47	10.3	PASS
11N40SISO	Ant2	5190	11	91.78	0.37	8.42	30	2.47	10.89	PASS
11N40SISO	Ant1	5230	11	97.06	0.13	7.27	30	2.47	9.74	PASS
11N40SISO	Ant2	5230	11	98.53	0.06	8.53	30	2.47	11	PASS
11N40SISO	Ant1	5270	11	97.06	0.13	7.16	23.98	2.47	9.63	PASS
11N40SISO	Ant2	5270	11	98.53	0.06	8.03	23.98	2.47	10.5	PASS
11N40SISO	Ant1	5310	11	97.06	0.13	7.75	23.98	2.47	10.22	PASS
11N40SISO	Ant2	5310	11	90.41	0.44	9.11	23.98	2.47	11.58	PASS
11N40SISO	Ant1	5510	11	97.06	0.13	5.8	23.98	2.47	8.27	PASS
11N40SISO	Ant2	5510	11	98.53	0.06	7.27	23.98	2.47	9.74	PASS
11N40SISO	Ant1	5550	11	97.06	0.13	6.31	23.98	2.47	8.78	PASS
11N40SISO	Ant2	5550	11	97.06	0.13	6.27	23.98	2.47	8.74	PASS
11N40SISO	Ant1	5670	11	90.41	0.44	7.64	23.98	2.47	10.11	PASS
11N40SISO	Ant2	5670	11	97.06	0.13	7.44	23.98	2.47	9.91	PASS
11N40MIMO	Ant1	5190	11	94.74	0.23	7.45	30	2.47	9.92	PASS
11N40MIMO	Ant2	5190	11	97.3	0.12	7.45	30	2.47	9.92	PASS
11N40MIMO	total	5190	11	---	---	10.46	30	---	12.93	PASS
11N40MIMO	Ant2	5230	11	97.3	0.12	7.85	30	2.47	10.32	PASS

11N40MIMO	total	5230	11	---	---	10.36	30	---	12.83	PASS
11N40MIMO	Ant1	5230	11	97.3	0.12	6.78	30	2.47	9.25	PASS
11N40MIMO	Ant1	5270	11	94.59	0.24	6.65	23.98	2.47	9.12	PASS
11N40MIMO	Ant2	5270	11	97.3	0.12	7.95	23.98	2.47	10.42	PASS
11N40MIMO	total	5270	11	---	---	10.36	23.98	---	12.83	PASS
11N40MIMO	Ant1	5310	11	94.59	0.24	7.27	23.98	2.47	9.74	PASS
11N40MIMO	Ant2	5310	11	97.3	0.12	8.56	23.98	2.47	11.03	PASS
11N40MIMO	total	5310	11	---	---	10.97	23.98	---	13.44	PASS
11N40MIMO	Ant1	5510	11	94.74	0.23	5.43	23.98	2.47	7.9	PASS
11N40MIMO	Ant2	5510	11	94.59	0.24	7.14	23.98	2.47	9.61	PASS
11N40MIMO	total	5510	11	---	---	9.38	23.98	---	11.85	PASS
11N40MIMO	Ant1	5550	11	94.74	0.23	5.98	23.98	2.47	8.45	PASS
11N40MIMO	Ant2	5550	11	97.3	0.12	6	23.98	2.47	8.47	PASS
11N40MIMO	total	5550	11	---	---	9	23.98	---	11.47	PASS
11N40MIMO	Ant1	5670	11	85.71	0.67	7.34	23.98	2.47	9.81	PASS
11N40MIMO	Ant2	5670	11	94.59	0.24	7.09	23.98	2.47	9.56	PASS
11N40MIMO	total	5670	11	---	---	10.23	23.98	---	12.7	PASS
11AC20SISO	Ant1	5180	11	98.54	0.06	7.99	30	2.47	10.46	PASS
11AC20SISO	Ant2	5180	11	95.74	0.19	8.31	30	2.47	10.78	PASS
11AC20SISO	Ant1	5200	11	98.54	0.06	7.58	30	2.47	10.05	PASS
11AC20SISO	Ant2	5200	11	98.53	0.06	8.35	30	2.47	10.82	PASS
11AC20SISO	Ant1	5240	11	98.54	0.06	7.32	30	2.47	9.79	PASS
11AC20SISO	Ant2	5240	11	98.54	0.06	8.12	30	2.47	10.59	PASS
11AC20SISO	Ant1	5260	11	95.74	0.19	7.26	23.98	2.47	9.73	PASS
11AC20SISO	Ant2	5260	11	98.53	0.06	7.55	23.98	2.47	10.02	PASS
11AC20SISO	Ant1	5280	11	98.54	0.06	6.82	23.98	2.47	9.29	PASS
11AC20SISO	Ant2	5280	11	98.54	0.06	8.57	23.98	2.47	11.04	PASS
11AC20SISO	Ant1	5320	11	99.26	0.03	7.58	23.98	2.47	10.05	PASS
11AC20SISO	Ant2	5320	11	99.26	0.03	8.33	23.98	2.47	10.8	PASS
11AC20SISO	Ant1	5500	11	98.53	0.06	5.5	23.98	2.47	7.97	PASS
11AC20SISO	Ant2	5500	11	95.07	0.22	7.65	23.98	2.47	10.12	PASS
11AC20SISO	Ant1	5580	11	98.54	0.06	6.14	23.98	2.47	8.61	PASS
11AC20SISO	Ant2	5580	11	99.26	0.03	7.38	23.98	2.47	9.85	PASS
11AC20SISO	Ant1	5700	11	99.26	0.03	6.83	23.98	2.47	9.3	PASS
11AC20SISO	Ant2	5700	11	98.53	0.06	7.02	23.98	2.47	9.49	PASS
11AC20MIMO	total	5180	11	---	---	10.84	30	---	13.31	PASS
11AC20MIMO	Ant1	5180	11	97.22	0.12	7.79	30	2.47	10.26	PASS
11AC20MIMO	Ant2	5180	11	90.91	0.41	7.86	30	2.47	10.33	PASS
11AC20MIMO	Ant1	5200	11	98.59	0.06	7.24	30	2.47	9.71	PASS
11AC20MIMO	Ant2	5200	11	98.59	0.06	7.72	30	2.47	10.19	PASS
11AC20MIMO	total	5200	11	---	---	10.5	30	---	12.97	PASS
11AC20MIMO	Ant1	5240	11	97.22	0.12	7.18	30	2.47	9.65	PASS

11AC20MIMO	Ant2	5240	11	98.59	0.06	7.56	30	2.47	10.03	PASS
11AC20MIMO	total	5240	11	---	---	10.38	30	---	12.85	PASS
11AC20MIMO	Ant1	5260	11	98.59	0.06	6.75	23.98	2.47	9.22	PASS
11AC20MIMO	Ant2	5260	11	97.22	0.12	7.54	23.98	2.47	10.01	PASS
11AC20MIMO	total	5260	11	---	---	10.17	23.98	---	12.64	PASS
11AC20MIMO	Ant1	5280	11	98.59	0.06	6.36	23.98	2.47	8.83	PASS
11AC20MIMO	Ant2	5280	11	92.11	0.36	8.78	23.98	2.47	11.25	PASS
11AC20MIMO	total	5280	11	---	---	10.75	23.98	---	13.22	PASS
11AC20MIMO	Ant1	5320	11	98.59	0.06	7.26	23.98	2.47	9.73	PASS
11AC20MIMO	Ant2	5320	11	98.59	0.06	8.21	23.98	2.47	10.68	PASS
11AC20MIMO	total	5320	11	---	---	10.77	23.98	---	13.24	PASS
11AC20MIMO	Ant1	5500	11	92.11	0.36	5.46	23.98	2.47	7.93	PASS
11AC20MIMO	Ant2	5500	11	97.22	0.12	7.29	23.98	2.47	9.76	PASS
11AC20MIMO	total	5500	11	---	---	9.48	23.98	---	11.95	PASS
11AC20MIMO	Ant1	5580	11	98.59	0.06	5.75	23.98	2.47	8.22	PASS
11AC20MIMO	Ant2	5580	11	97.22	0.12	7.24	23.98	2.47	9.71	PASS
11AC20MIMO	total	5580	11	---	---	9.57	23.98	---	12.04	PASS
11AC20MIMO	Ant1	5700	11	97.22	0.12	6.42	23.98	2.47	8.89	PASS
11AC20MIMO	Ant2	5700	11	97.22	0.12	6.66	23.98	2.47	9.13	PASS
11AC20MIMO	total	5700	11	---	---	9.55	23.98	---	12.02	PASS
11AC40SISO	Ant1	5190	9	98.55	0.06	5.68	30	2.47	8.15	PASS
11AC40SISO	Ant2	5190	9	97.1	0.13	6.83	30	2.47	9.3	PASS
11AC40SISO	Ant1	5230	9	98.55	0.06	5.16	30	2.47	7.63	PASS
11AC40SISO	Ant2	5230	9	97.1	0.13	6.96	30	2.47	9.43	PASS
11AC40SISO	Ant1	5270	9	98.55	0.06	5.05	23.98	2.47	7.52	PASS
11AC40SISO	Ant2	5270	9	98.53	0.06	6.67	23.98	2.47	9.14	PASS
11AC40SISO	Ant1	5310	9	98.53	0.06	5.73	23.98	2.47	8.2	PASS
11AC40SISO	Ant2	5310	9	97.1	0.13	7.38	23.98	2.47	9.85	PASS
11AC40SISO	Ant1	5510	9	97.1	0.13	3.72	23.98	2.47	6.19	PASS
11AC40SISO	Ant2	5510	9	97.1	0.13	6.51	23.98	2.47	8.98	PASS
11AC40SISO	Ant1	5550	9	97.1	0.13	4.27	23.98	2.47	6.74	PASS
11AC40SISO	Ant2	5550	9	97.1	0.13	5.33	23.98	2.47	7.8	PASS
11AC40SISO	Ant1	5670	9	98.53	0.06	5.26	23.98	2.47	7.73	PASS
11AC40SISO	Ant2	5670	9	98.55	0.06	6.18	23.98	2.47	8.65	PASS
11AC40MIMO	Ant1	5190	9	94.74	0.23	5.48	30	2.47	7.95	PASS
11AC40MIMO	Ant2	5190	9	94.74	0.23	5.59	30	2.47	8.06	PASS
11AC40MIMO	total	5190	9	---	---	8.55	30	---	11.02	PASS
11AC40MIMO	Ant1	5230	9	85.71	0.67	5.34	30	2.47	7.81	PASS
11AC40MIMO	Ant2	5230	9	85.71	0.67	6.54	30	2.47	9.01	PASS
11AC40MIMO	total	5230	9	---	---	8.99	30	---	11.46	PASS
11AC40MIMO	Ant1	5270	9	94.74	0.23	4.73	23.98	2.47	7.2	PASS
11AC40MIMO	Ant2	5270	9	94.74	0.23	6.07	23.98	2.47	8.54	PASS

11AC40MIMO	total	5270	9	---	---	8.46	23.98	---	10.93	PASS
11AC40MIMO	Ant1	5310	9	97.3	0.12	5.21	23.98	2.47	7.68	PASS
11AC40MIMO	Ant2	5310	9	94.74	0.23	6.7	23.98	2.47	9.17	PASS
11AC40MIMO	total	5310	9	---	---	9.03	23.98	---	11.5	PASS
11AC40MIMO	Ant1	5510	9	94.74	0.23	3.49	23.98	2.47	5.96	PASS
11AC40MIMO	Ant2	5510	9	94.74	0.23	5.77	23.98	2.47	8.24	PASS
11AC40MIMO	total	5510	9	---	---	7.79	23.98	---	10.26	PASS
11AC40MIMO	Ant1	5550	9	94.74	0.23	4	23.98	2.47	6.47	PASS
11AC40MIMO	Ant2	5550	9	94.59	0.24	4.73	23.98	2.47	7.2	PASS
11AC40MIMO	total	5550	9	---	---	7.39	23.98	---	9.86	PASS
11AC40MIMO	Ant1	5670	9	97.3	0.12	4.82	23.98	2.47	7.29	PASS
11AC40MIMO	Ant2	5670	9	97.3	0.12	5.51	23.98	2.47	7.98	PASS
11AC40MIMO	total	5670	9	---	---	8.19	23.98	---	10.66	PASS
11AC80SISO	Ant1	5210	9	97.06	0.13	5.71	30	2.47	8.18	PASS
11AC80SISO	Ant2	5210	9	97.06	0.13	6.51	30	2.47	8.98	PASS
11AC80SISO	Ant1	5290	9	94.29	0.26	5.66	23.98	2.47	8.13	PASS
11AC80SISO	Ant2	5290	9	97.14	0.13	7.16	23.98	2.47	9.63	PASS
11AC80SISO	Ant1	5530	9	94.29	0.26	4.27	23.98	2.47	6.74	PASS
11AC80SISO	Ant2	5530	9	97.14	0.13	5.87	23.98	2.47	8.34	PASS
11AC80SISO	Ant1	5610	9	97.06	0.13	4.88	23.98	2.47	7.35	PASS
11AC80SISO	Ant2	5610	9	97.06	0.13	6	23.98	2.47	8.47	PASS
11AC80MIMO	Ant1	5210	9	95	0.22	5.32	30	2.47	7.79	PASS
11AC80MIMO	Ant2	5210	9	90.48	0.43	6.14	30	2.47	8.61	PASS
11AC80MIMO	total	5210	9	---	---	8.76	30	---	11.23	PASS
11AC80MIMO	Ant1	5290	9	90.48	0.43	5.27	23.98	2.47	7.74	PASS
11AC80MIMO	Ant2	5290	9	90.48	0.43	6.77	23.98	2.47	9.24	PASS
11AC80MIMO	total	5290	9	---	---	9.09	23.98	---	11.56	PASS
11AC80MIMO	Ant1	5530	9	90.48	0.43	4.03	23.98	2.47	6.5	PASS
11AC80MIMO	Ant2	5530	9	95	0.22	5.36	23.98	2.47	7.83	PASS
11AC80MIMO	total	5530	9	---	---	7.76	23.98	---	10.23	PASS
11AC80MIMO	Ant1	5610	9	95.24	0.21	4.46	23.98	2.47	6.93	PASS
11AC80MIMO	Ant2	5610	9	90.48	0.43	5.7	23.98	2.47	8.17	PASS
11AC80MIMO	total	5610	9	---	---	8.13	23.98	---	10.6	PASS
11AX20SISO	Ant1	5180	12	99.06	0.04	4.23	30	2.47	6.7	PASS
11AX20SISO	Ant2	5180	12	94.59	0.24	4.53	30	2.47	7	PASS
11AX20SISO	Ant1	5200	12	99.06	0.04	3.79	30	2.47	6.26	PASS
11AX20SISO	Ant2	5200	12	94.55	0.24	4.49	30	2.47	6.96	PASS
11AX20SISO	Ant1	5240	12	98.11	0.08	3.62	30	2.47	6.09	PASS
11AX20SISO	Ant2	5240	12	99.06	0.04	4.25	30	2.47	6.72	PASS
11AX20SISO	Ant1	5260	12	93.69	0.28	3.65	23.98	2.47	6.12	PASS
11AX20SISO	Ant2	5260	12	93.69	0.28	4.37	23.98	2.47	6.84	PASS
11AX20SISO	Ant1	5280	12	98.11	0.08	3.04	23.98	2.47	5.51	PASS

11AX20SISO	Ant2	5280	12	93.69	0.28	5.27	23.98	2.47	7.74	PASS
11AX20SISO	Ant1	5320	12	94.59	0.24	4.06	23.98	2.47	6.53	PASS
11AX20SISO	Ant2	5320	12	98.11	0.08	4.89	23.98	2.47	7.36	PASS
11AX20SISO	Ant1	5500	12	98.11	0.08	1.82	23.98	2.47	4.29	PASS
11AX20SISO	Ant2	5500	12	98.11	0.08	4.53	23.98	2.47	7	PASS
11AX20SISO	Ant1	5580	12	98.11	0.08	2.37	23.98	2.47	4.84	PASS
11AX20SISO	Ant2	5580	12	99.06	0.04	4.51	23.98	2.47	6.98	PASS
11AX20SISO	Ant1	5700	12	99.06	0.04	3.07	23.98	2.47	5.54	PASS
11AX20SISO	Ant2	5700	12	98.11	0.08	3.83	23.98	2.47	6.3	PASS
11AX20MIMO	Ant1	5180	12	98.25	0.08	3.88	30	2.47	6.35	PASS
11AX20MIMO	Ant2	5180	12	96.49	0.16	3.95	30	2.47	6.42	PASS
11AX20MIMO	total	5180	12	---	---	6.93	30	---	9.4	PASS
11AX20MIMO	Ant1	5200	12	90.32	0.44	3.85	30	2.47	6.32	PASS
11AX20MIMO	Ant2	5200	12	98.25	0.08	3.93	30	2.47	6.4	PASS
11AX20MIMO	total	5200	12	---	---	6.9	30	---	9.37	PASS
11AX20MIMO	Ant1	5240	12	98.25	0.08	3.31	30	2.47	5.78	PASS
11AX20MIMO	Ant2	5240	12	98.25	0.08	3.88	30	2.47	6.35	PASS
11AX20MIMO	total	5240	12	---	---	6.61	30	---	9.08	PASS
11AX20MIMO	Ant1	5260	12	88.71	0.52	3.47	23.98	2.47	5.94	PASS
11AX20MIMO	Ant2	5260	12	98.25	0.08	3.74	23.98	2.47	6.21	PASS
11AX20MIMO	total	5260	12	---	---	6.62	23.98	---	9.09	PASS
11AX20MIMO	Ant1	5280	12	98.25	0.08	2.62	23.98	2.47	5.09	PASS
11AX20MIMO	Ant2	5280	12	98.25	0.08	4.6	23.98	2.47	7.07	PASS
11AX20MIMO	total	5280	12	---	---	6.73	23.98	---	9.2	PASS
11AX20MIMO	Ant1	5320	12	96.49	0.16	3.63	23.98	2.47	6.1	PASS
11AX20MIMO	Ant2	5320	12	98.25	0.08	4.41	23.98	2.47	6.88	PASS
11AX20MIMO	total	5320	12	---	---	7.05	23.98	---	9.52	PASS
11AX20MIMO	Ant1	5500	12	98.25	0.08	1.5	23.98	2.47	3.97	PASS
11AX20MIMO	Ant2	5500	12	98.25	0.08	4.1	23.98	2.47	6.57	PASS
11AX20MIMO	total	5500	12	---	---	6	23.98	---	8.47	PASS
11AX20MIMO	Ant1	5580	12	98.25	0.08	2.02	23.98	2.47	4.49	PASS
11AX20MIMO	Ant2	5580	12	96.49	0.16	4.2	23.98	2.47	6.67	PASS
11AX20MIMO	total	5580	12	---	---	6.26	23.98	---	8.73	PASS
11AX20MIMO	Ant1	5700	12	98.25	0.08	2.6	23.98	2.47	5.07	PASS
11AX20MIMO	Ant2	5700	12	98.25	0.08	3.31	23.98	2.47	5.78	PASS
11AX20MIMO	total	5700	12	---	---	5.98	23.98	---	8.45	PASS
11AX40SISO	Ant1	5190	9	96.49	0.16	4.06	30	2.47	6.53	PASS
11AX40SISO	Ant2	5190	9	98.25	0.08	4.24	30	2.47	6.71	PASS
11AX40SISO	Ant1	5230	9	98.21	0.08	3.47	30	2.47	5.94	PASS
11AX40SISO	Ant2	5230	9	98.21	0.08	4.65	30	2.47	7.12	PASS
11AX40SISO	Ant1	5270	9	96.49	0.16	3.38	23.98	2.47	5.85	PASS
11AX40SISO	Ant2	5270	9	98.21	0.08	4.55	23.98	2.47	7.02	PASS

11AX40SISO	Ant1	5310	9	96.49	0.16	4.06	23.98	2.47	6.53	PASS
11AX40SISO	Ant2	5310	9	96.49	0.16	5.36	23.98	2.47	7.83	PASS
11AX40SISO	Ant1	5510	9	96.49	0.16	2.09	23.98	2.47	4.56	PASS
11AX40SISO	Ant2	5510	9	96.49	0.16	4.41	23.98	2.47	6.88	PASS
11AX40SISO	Ant1	5550	9	96.49	0.16	2.53	23.98	2.47	5	PASS
11AX40SISO	Ant2	5550	9	96.49	0.16	3.35	23.98	2.47	5.82	PASS
11AX40SISO	Ant1	5670	9	96.49	0.16	3.61	23.98	2.47	6.08	PASS
11AX40SISO	Ant2	5670	9	96.49	0.16	4.3	23.98	2.47	6.77	PASS
11AX40MIMO	Ant1	5190	9	96.88	0.14	3.65	30	2.47	6.12	PASS
11AX40MIMO	Ant2	5190	9	96.88	0.14	3.8	30	2.47	6.27	PASS
11AX40MIMO	total	5190	9	---	---	6.74	30	---	9.21	PASS
11AX40MIMO	Ant1	5230	9	93.75	0.28	3.33	30	2.47	5.8	PASS
11AX40MIMO	Ant2	5230	9	96.88	0.14	4.19	30	2.47	6.66	PASS
11AX40MIMO	total	5230	9	---	---	6.79	30	---	9.26	PASS
11AX40MIMO	Ant1	5270	9	93.94	0.27	3.01	23.98	2.47	5.48	PASS
11AX40MIMO	Ant2	5270	9	96.88	0.14	4.24	23.98	2.47	6.71	PASS
11AX40MIMO	total	5270	9	---	---	6.68	23.98	---	9.15	PASS
11AX40MIMO	Ant1	5310	9	96.88	0.14	3.49	23.98	2.47	5.96	PASS
11AX40MIMO	Ant2	5310	9	93.75	0.28	5.07	23.98	2.47	7.54	PASS
11AX40MIMO	total	5310	9	---	---	7.36	23.98	---	9.83	PASS
11AX40MIMO	Ant1	5510	9	93.75	0.28	1.77	23.98	2.47	4.24	PASS
11AX40MIMO	Ant2	5510	9	93.75	0.28	4.14	23.98	2.47	6.61	PASS
11AX40MIMO	total	5510	9	---	---	6.13	23.98	---	8.6	PASS
11AX40MIMO	Ant1	5550	9	93.75	0.28	2.35	23.98	2.47	4.82	PASS
11AX40MIMO	Ant2	5550	9	93.94	0.27	3.02	23.98	2.47	5.49	PASS
11AX40MIMO	total	5550	9	---	---	5.71	23.98	---	8.18	PASS
11AX40MIMO	Ant1	5670	9	93.75	0.28	3.26	23.98	2.47	5.73	PASS
11AX40MIMO	Ant2	5670	9	83.78	0.77	4.38	23.98	2.47	6.85	PASS
11AX40MIMO	total	5670	9	---	---	6.87	23.98	---	9.34	PASS
11AX80SISO	Ant1	5210	9	93.55	0.29	4.07	30	2.47	6.54	PASS
11AX80SISO	Ant2	5210	9	93.55	0.29	4.82	30	2.47	7.29	PASS
11AX80SISO	Ant1	5290	9	93.55	0.29	3.94	23.98	2.47	6.41	PASS
11AX80SISO	Ant2	5290	9	93.55	0.29	5.54	23.98	2.47	8.01	PASS
11AX80SISO	Ant1	5530	9	96.77	0.14	2.44	23.98	2.47	4.91	PASS
11AX80SISO	Ant2	5530	9	80.56	0.94	4.85	23.98	2.47	7.32	PASS
11AX80SISO	Ant1	5610	9	96.77	0.14	3.16	23.98	2.47	5.63	PASS
11AX80SISO	Ant2	5610	9	96.77	0.14	4.24	23.98	2.47	6.71	PASS
11AX80MIMO	Ant1	5210	9	94.74	0.23	3.56	30	2.47	6.03	PASS
11AX80MIMO	Ant2	5210	9	90	0.46	4.38	30	2.47	6.85	PASS
11AX80MIMO	total	5210	9	---	---	7	30	---	9.47	PASS
11AX80MIMO	Ant1	5290	9	90	0.46	3.58	23.98	2.47	6.05	PASS
11AX80MIMO	Ant2	5290	9	90	0.46	5.02	23.98	2.47	7.49	PASS

11AX80MIMO	total	5290	9	---	---	7.37	23.98	---	9.84	PASS
11AX80MIMO	Ant1	5530	9	89.47	0.48	2.35	23.98	2.47	4.82	PASS
11AX80MIMO	Ant2	5530	9	90	0.46	3.83	23.98	2.47	6.3	PASS
11AX80MIMO	total	5530	9	---	---	6.16	23.98	---	8.63	PASS
11AX80MIMO	Ant1	5610	9	90	0.46	2.93	23.98	2.47	5.4	PASS
11AX80MIMO	Ant2	5610	9	94.74	0.23	3.77	23.98	2.47	6.24	PASS
11AX80MIMO	total	5610	9	---	---	6.38	23.98	---	8.85	PASS

Note:

- 1.The Duty Cycle Factor is compensated in the graph.
2. In the graph, the Center frequency = (Low frequency of 26dB OBW + High frequency of 26dB OBW) /2.
- 3.The 11a data rate 6Mbps is selected as worse condition, 11n/11ac/11ax data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

Test graphs

