

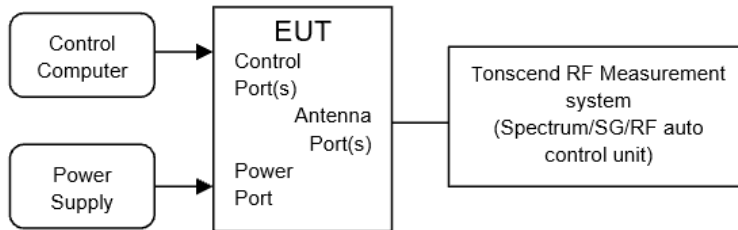






8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (23.98 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23.01 dBm) or $10 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5470 - 5725
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	1 Watt (30 dBm)	5725-5850
Note 1: For FCC: B=26 bandwidth; For ISDE: B=99% bandwidth.		
Note 2: If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and operating in 5725-5850 band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.		

8.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the output power of each antenna port by power sensor.

8.4. Test result channel power

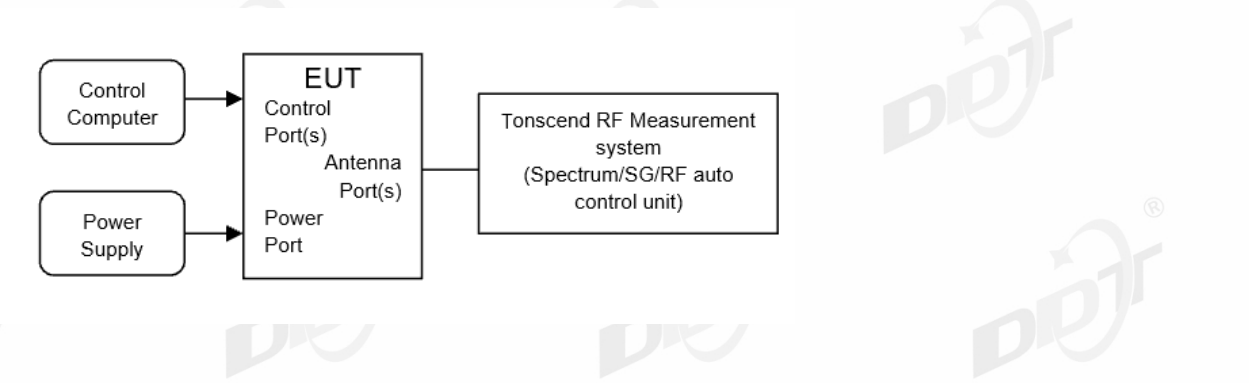
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 5#
Ambient Condition:	26.2-27.1°C,39-42%RH	Test Date:	2026.04.29-2026.04.30
Test Power Supply:	AC 120V/60Hz	Sample Number:	S26021109-001

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	ISED EIRP Limit [dBm]	Verdict
11A	Ant1	5180	81.82	0.87	13.09	≤23.98	---	16.45	≤22.24	PASS
		5200	81.82	0.87	13.15	≤23.98	---	16.51	≤22.24	PASS
		5240	77.27	1.12	12.93	≤23.98	---	16.29	≤22.24	PASS
		5260	77.27	1.12	12.82	≤23.98	≤23.24	16.18	≤29.24	PASS
		5280	81.82	0.87	12.37	≤23.98	≤23.23	15.73	≤29.23	PASS
		5320	77.27	1.12	12.72	≤23.98	≤23.24	16.08	≤29.24	PASS
		5500	81.82	0.87	11.81	≤23.98	≤23.25	15.17	≤29.25	PASS
		5580	77.27	1.12	9.97	≤23.98	≤23.25	13.33	≤29.25	PASS
		5700	77.27	1.12	9.10	≤23.98	≤23.26	12.46	≤29.26	PASS
		5720	77.27	1.12	9.36	≤23.98	≤23.25	12.72	≤29.25	PASS
		5745	77.27	1.12	12.52	≤30.00	≤30.00	15.88	---	PASS
		5785	81.82	0.87	13.17	≤30.00	≤30.00	16.53	---	PASS
		5825	77.27	1.12	14.11	≤30.00	≤30.00	17.47	---	PASS
11N20SISO	Ant1	5180	97.04	0.13	12.89	≤23.98	---	16.25	≤22.66	PASS
		5200	97.04	0.13	12.95	≤23.98	---	16.31	≤22.65	PASS
		5240	97.04	0.13	12.46	≤23.98	---	15.82	≤22.66	PASS
		5260	97.04	0.13	12.33	≤23.98	≤23.67	15.69	≤29.67	PASS
		5280	97.04	0.13	12.22	≤23.98	≤23.67	15.58	≤29.67	PASS
		5320	96.32	0.16	12.10	≤23.98	≤23.66	15.46	≤29.66	PASS
		5500	97.04	0.13	11.38	≤23.98	≤23.67	14.74	≤29.67	PASS
		5580	97.04	0.13	9.45	≤23.98	≤23.68	12.81	≤29.68	PASS
		5700	97.04	0.13	8.42	≤23.98	≤23.67	11.78	≤29.67	PASS
		5720	96.32	0.16	8.68	≤23.98	≤23.69	12.04	≤29.69	PASS
		5745	97.04	0.13	13.62	≤30.00	≤30.00	16.98	---	PASS
		5785	97.04	0.13	14.49	≤30.00	≤30.00	17.85	---	PASS
		5825	96.32	0.16	15.44	≤30.00	≤30.00	18.80	---	PASS
11N40SISO	Ant1	5190	92.86	0.32	11.01	≤23.98	---	14.37	≤23.01	PASS
		5230	92.75	0.33	10.80	≤23.98	---	14.16	≤23.01	PASS
		5270	92.75	0.33	10.38	≤23.98	≤23.98	13.74	≤30.00	PASS
		5310	94.20	0.26	10.21	≤23.98	≤23.98	13.57	≤30.00	PASS
		5510	92.75	0.33	9.44	≤23.98	≤23.98	12.80	≤30.00	PASS

		5550	92.86	0.32	8.41	≤23.98	≤23.98	11.77	≤30.00	PASS
		5670	94.20	0.26	6.45	≤23.98	≤23.98	9.81	≤30.00	PASS
		5710	92.75	0.33	6.77	≤23.98	≤23.98	10.13	≤30.00	PASS
		5755	92.75	0.33	14.23	≤30.00	≤30.00	17.59	---	PASS
		5795	92.75	0.33	14.95	≤30.00	≤30.00	18.31	---	PASS
11AC20SISO	Ant1	5180	78.95	1.03	11.07	≤23.98	---	14.43	≤22.60	PASS
		5200	78.95	1.03	10.89	≤23.98	---	14.25	≤22.59	PASS
		5240	78.95	1.03	10.54	≤23.98	---	13.90	≤22.58	PASS
		5260	78.95	1.03	10.36	≤23.98	≤23.60	13.72	≤29.60	PASS
		5280	78.95	1.03	10.35	≤23.98	≤23.59	13.71	≤29.59	PASS
		5320	73.68	1.33	10.39	≤23.98	≤23.58	13.75	≤29.58	PASS
		5500	78.95	1.03	9.52	≤23.98	≤23.59	12.88	≤29.59	PASS
		5580	73.68	1.33	7.75	≤23.98	≤23.60	11.11	≤29.60	PASS
		5700	78.95	1.03	6.64	≤23.98	≤23.62	10.00	≤29.62	PASS
		5720	78.95	1.03	6.63	≤23.98	≤23.61	9.99	≤29.61	PASS
		5745	78.95	1.03	9.68	≤30.00	≤30.00	13.04	---	PASS
		5785	73.68	1.33	10.80	≤30.00	≤30.00	14.16	---	PASS
		5825	73.68	1.33	11.74	≤30.00	≤30.00	15.10	---	PASS
11AC40SISO	Ant1	5190	69.23	1.60	10.51	≤23.98	---	13.87	≤23.01	PASS
		5230	61.54	2.11	10.75	≤23.98	---	14.11	≤23.01	PASS
		5270	69.23	1.60	9.92	≤23.98	≤23.98	13.28	≤30.00	PASS
		5310	61.54	2.11	10.40	≤23.98	≤23.98	13.76	≤30.00	PASS
		5510	69.23	1.60	9.03	≤23.98	≤23.98	12.39	≤30.00	PASS
		5550	61.54	2.11	8.60	≤23.98	≤23.98	11.96	≤30.00	PASS
		5670	61.54	2.11	6.80	≤23.98	≤23.98	10.16	≤30.00	PASS
		5710	61.54	2.11	6.99	≤23.98	≤23.98	10.35	≤30.00	PASS
		5755	69.23	1.60	8.37	≤30.00	≤30.00	11.73	---	PASS
		5795	61.54	2.11	9.92	≤30.00	≤30.00	13.28	---	PASS
11AC80SISO	Ant1	5210	60.00	2.22	10.31	≤23.98	---	13.67	≤23.01	PASS
		5290	54.55	2.63	9.36	≤23.98	≤23.98	12.72	≤30.00	PASS
		5530	63.64	1.96	7.54	≤23.98	≤23.98	10.90	≤30.00	PASS
		5610	60.00	2.22	6.29	≤23.98	≤23.98	9.65	≤30.00	PASS
		5690	60.00	2.22	6.03	≤23.98	≤23.98	9.39	≤30.00	PASS
		5775	60.00	2.22	8.42	≤30.00	≤30.00	11.78	---	PASS

9. Power Spectral Density

9.1. Block diagram of test setup



9.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	5470 - 5725
	30 dBm/500 kHz	5725-5850
Note: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum Power Spectral Density.		

9.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

9.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 5#
Ambient Condition:	26.2-27.1°C,39-42%RH	Test Date:	2026.04.29-2026.04.30
Test Power Supply:	AC 120V/60Hz	Sample Number:	S26021109-001

Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Conducted Limit [dBm/MHz]	EIRP [dBm/MHz]	ISED EIRP Limit [dBm/MHz]	Verdict
11A	Ant1	5180	0.96	≤11.00	4.32	≤10.00	PASS
		5200	1.19	≤11.00	4.55	≤10.00	PASS
		5240	0.94	≤11.00	4.3	≤10.00	PASS
		5260	0.68	≤11.00	4.04	---	PASS
		5280	0.32	≤11.00	3.68	---	PASS
		5320	1.08	≤11.00	4.44	---	PASS
		5500	-0.15	≤11.00	3.21	---	PASS
		5580	-1.54	≤11.00	1.82	---	PASS
		5700	-2.80	≤11.00	0.56	---	PASS
		5720_UNII-2C	-2.11	≤11.00	1.25	---	PASS
		5720_UNII-3	-8.77	≤30.00	-5.41	---	PASS
		5745	-2.22	≤30.00	1.14	---	PASS
		5785	-1.76	≤30.00	1.60	---	PASS
		5825	-0.60	≤30.00	2.76	---	PASS
11N20SISO	Ant1	5180	0.35	≤11.00	3.71	≤10.00	PASS
		5200	0.53	≤11.00	3.89	≤10.00	PASS
		5240	0.13	≤11.00	3.49	≤10.00	PASS
		5260	-0.13	≤11.00	3.23	---	PASS
		5280	-0.15	≤11.00	3.21	---	PASS
		5320	0.06	≤11.00	3.42	---	PASS
		5500	-0.89	≤11.00	2.47	---	PASS

		5580	-2.68	≤ 11.00	0.68	---	PASS
		5700	-3.83	≤ 11.00	-0.47	---	PASS
		5720_UNII-2C	-3.35	≤ 11.00	0.01	---	PASS
		5720_UNII-3	-10.04	≤ 30.00	-6.68	---	PASS
		5745	-1.21	≤ 30.00	2.15	---	PASS
		5785	-0.66	≤ 30.00	2.7	---	PASS
		5825	0.40	≤ 30.00	3.76	---	PASS
11N40SISO	Ant1	5190	-4.38	≤ 11.00	-1.02	≤ 10.00	PASS
		5230	-4.58	≤ 11.00	-1.22	≤ 10.00	PASS
		5270	-5.04	≤ 11.00	-1.68	---	PASS
		5310	-4.86	≤ 11.00	-1.5	---	PASS
		5510	-5.48	≤ 11.00	-2.12	---	PASS
		5550	-6.64	≤ 11.00	-3.28	---	PASS
		5670	-8.53	≤ 11.00	-5.17	---	PASS
		5710_UNII-2C	-8.15	≤ 11.00	-4.79	---	PASS
		5710_UNII-3	-14.92	≤ 30.00	-11.56	---	PASS
		5755	-3.89	≤ 30.00	-0.53	---	PASS
		5795	-3.10	≤ 30.00	0.26	---	PASS
11AC20SISO	Ant1	5180	-1.34	≤ 11.00	2.02	≤ 10.00	PASS
		5200	-1.43	≤ 11.00	1.93	≤ 10.00	PASS
		5240	-1.81	≤ 11.00	1.55	≤ 10.00	PASS
		5260	-2.19	≤ 11.00	1.17	---	PASS
		5280	-1.89	≤ 11.00	1.47	---	PASS
		5320	-1.62	≤ 11.00	1.74	---	PASS
		5500	-2.66	≤ 11.00	0.7	---	PASS
		5580	-4.38	≤ 11.00	-1.02	---	PASS

		5700	-5.49	≤ 11.00	-2.13	---	PASS
		5720_UNII-2C	-5.20	≤ 11.00	-1.84	---	PASS
		5720_UNII-3	-11.20	≤ 30.00	-7.84	---	PASS
		5745	-5.32	≤ 30.00	-1.96	---	PASS
		5785	-4.45	≤ 30.00	-1.09	---	PASS
		5825	-3.36	≤ 30.00	0	---	PASS
11AC40SISO	Ant1	5190	-4.65	≤ 11.00	-1.29	≤ 10.00	PASS
		5230	-4.39	≤ 11.00	-1.03	≤ 10.00	PASS
		5270	-5.48	≤ 11.00	-2.12	---	PASS
		5310	-4.63	≤ 11.00	-1.27	---	PASS
		5510	-5.78	≤ 11.00	-2.42	---	PASS
		5550	-6.47	≤ 11.00	-3.11	---	PASS
		5670	-8.26	≤ 11.00	-4.9	---	PASS
		5710_UNII-2C	-7.76	≤ 11.00	-4.4	---	PASS
		5710_UNII-3	-13.06	≤ 30.00	-9.7	---	PASS
		5755	-9.40	≤ 30.00	-6.04	---	PASS
		5795	-7.98	≤ 30.00	-4.62	---	PASS
11AC80SISO	Ant1	5210	-7.60	≤ 11.00	-4.24	≤ 10.00	PASS
		5290	-8.10	≤ 11.00	-4.74	---	PASS
		5530	-9.84	≤ 11.00	-6.48	---	PASS
		5610	-11.45	≤ 11.00	-8.09	---	PASS
		5690_UNII-2C	-11.61	≤ 11.00	-8.25	---	PASS
		5690_UNII-3	-17.39	≤ 30.00	-14.03	---	PASS
		5775	-11.79	≤ 30.00	-8.43	---	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 is compensated in the graph.

9.5. Test graphs





