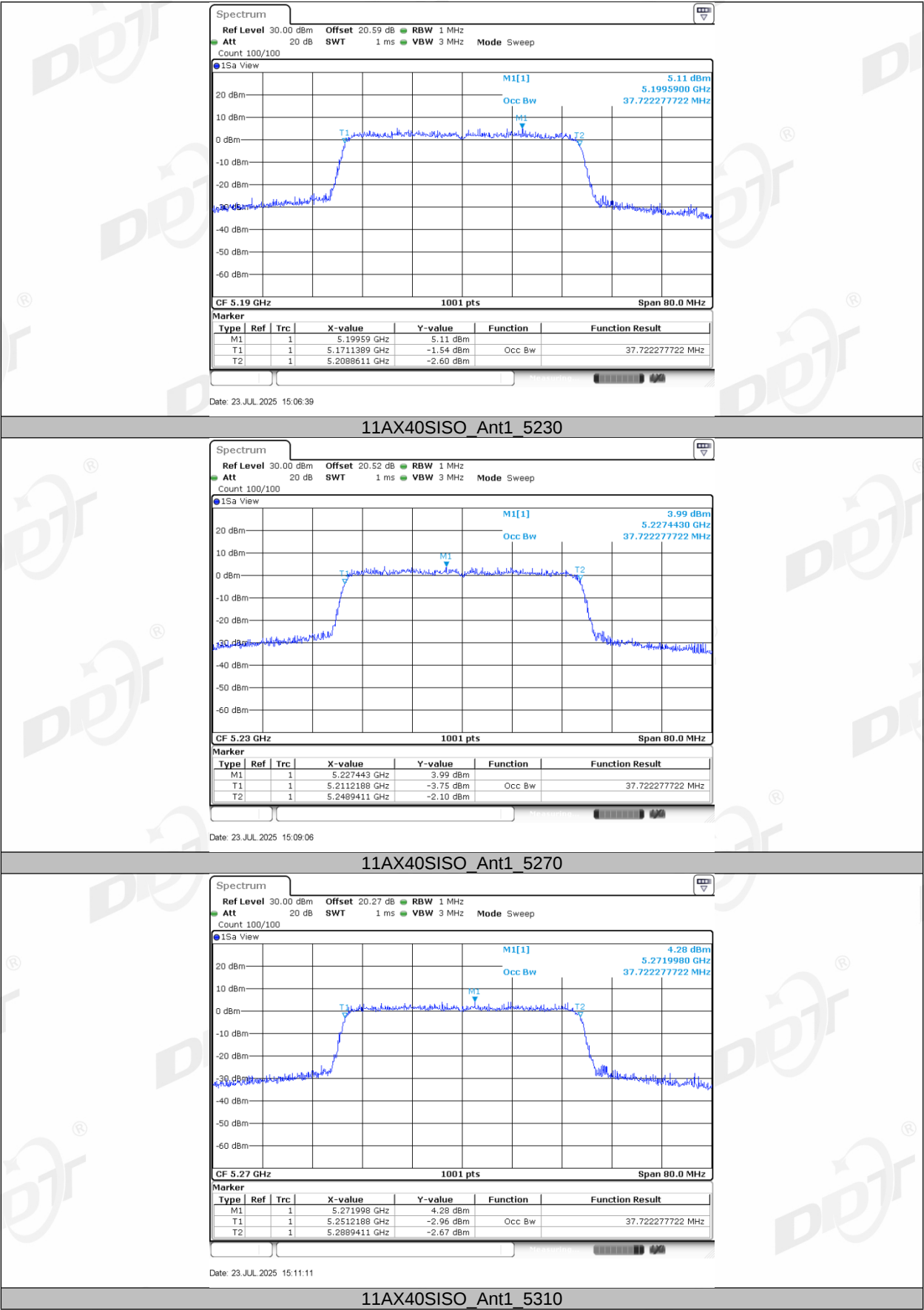
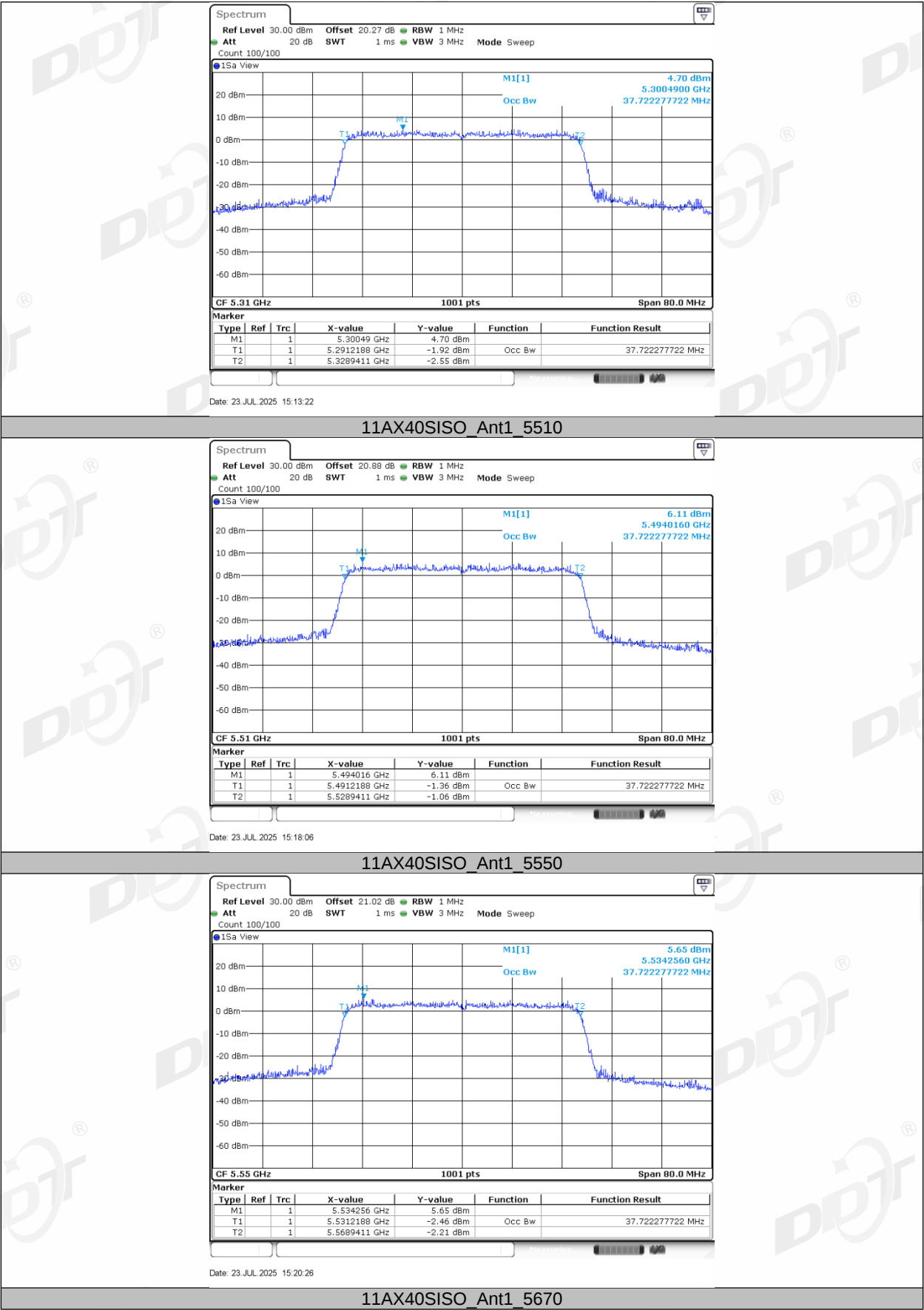
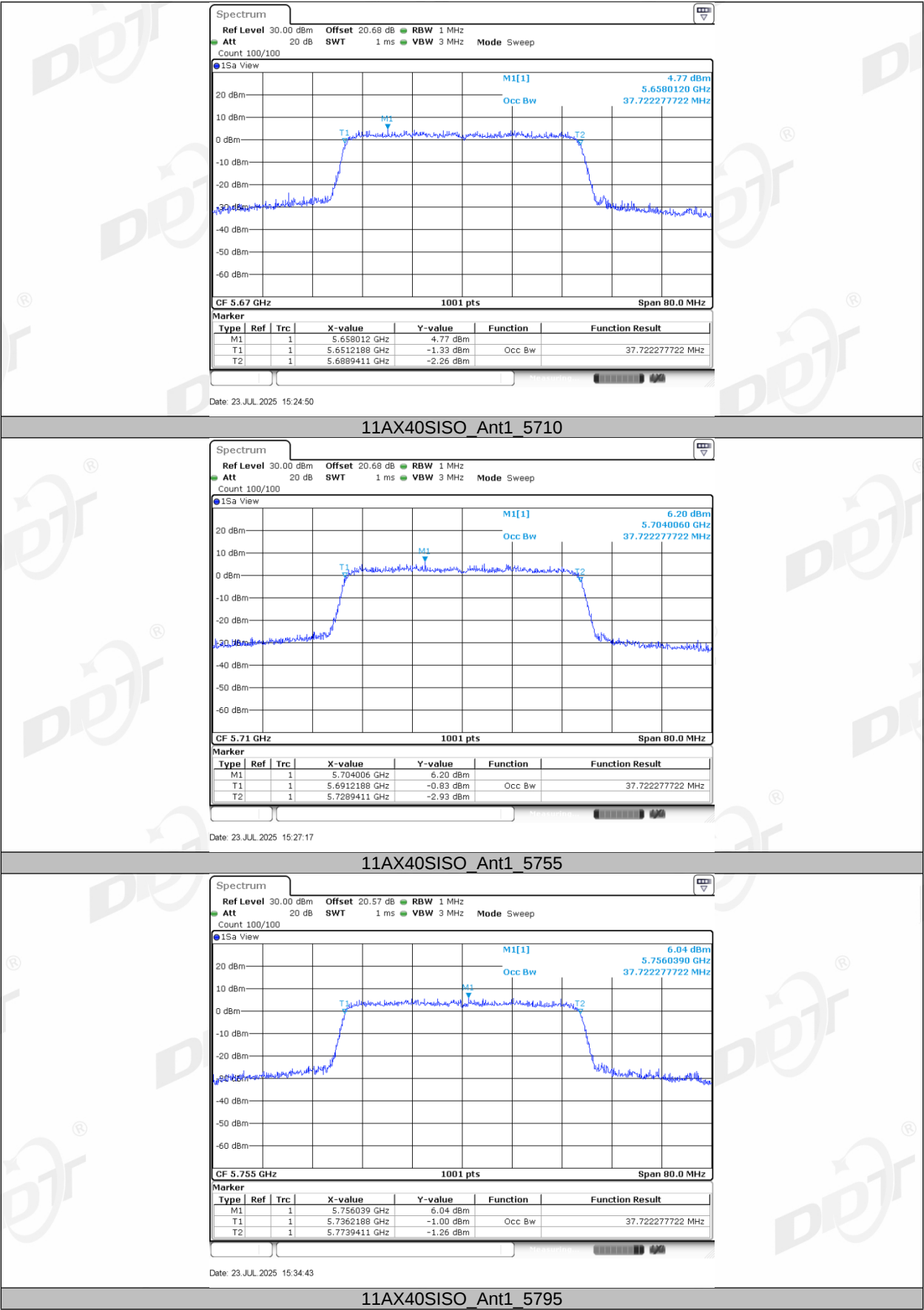
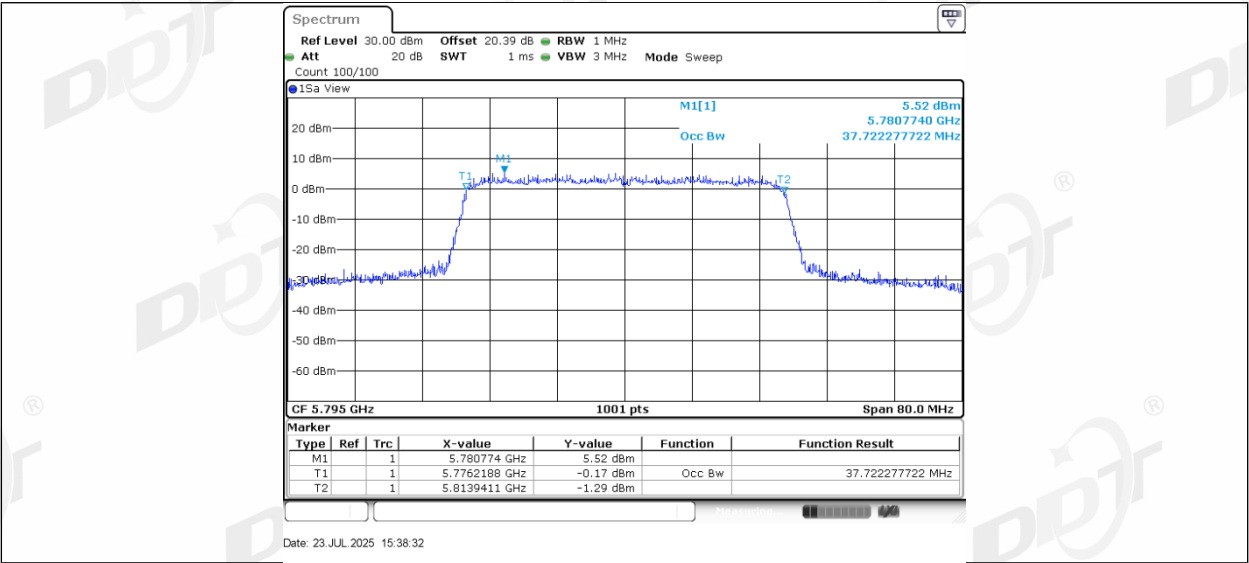




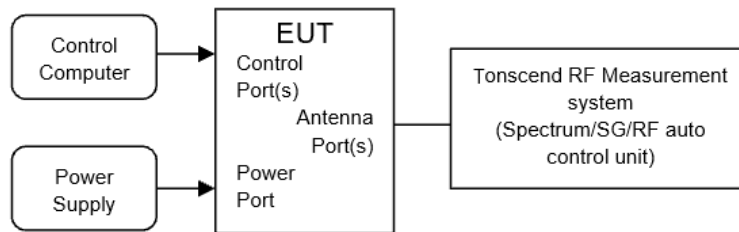






7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 10 MHz.
Video BW: 10 MHz.
Span: Zero span.
Detector: Peak.
Trace Mode: Clear Write.
Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
$$\text{Duty cycle} = \text{Pulse's on time} / \text{Burst cycle}$$

7.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	25.2-26.8℃,34.7-41.5%RH	Test Date:	2025.07.17-2025.07.23
Test Power Supply:	AC 120V	Sample Number:	S25061119-001

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dBm]
11A	Ant1	5180	1.36	1.53	88.89	0.51
		5200	1.36	1.53	88.89	0.51
		5240	1.36	1.53	88.89	0.51
		5260	1.36	1.53	88.89	0.51
		5280	1.36	1.53	88.89	0.51
		5320	1.36	1.53	88.89	0.51
		5500	1.36	1.53	88.89	0.51
		5580	1.36	1.54	88.31	0.54
		5700	1.36	1.53	88.89	0.51
		5720	1.36	1.53	88.89	0.51
		5745	1.36	1.53	88.89	0.51
		5785	1.36	1.53	88.89	0.51
		5825	1.36	1.54	88.31	0.54
11N20SISO	Ant1	5180	5.09	5.26	96.77	0.14
		5200	5.09	5.26	96.77	0.14
		5240	5.09	5.26	96.77	0.14
		5260	5.09	5.26	96.77	0.14
		5280	5.09	5.26	96.77	0.14
		5320	5.09	5.26	96.77	0.14
		5500	5.08	5.25	96.76	0.14
		5580	5.08	5.25	96.76	0.14
		5700	5.09	5.26	96.77	0.14
		5720	5.09	5.26	96.77	0.14
		5745	5.08	5.26	96.58	0.15
		5785	5.09	5.26	96.77	0.14
		5825	5.09	5.26	96.77	0.14
11N40SISO	Ant1	5190	2.47	2.65	93.21	0.31
		5230	2.47	2.65	93.21	0.31
		5270	2.47	2.64	93.56	0.29
		5310	2.47	2.64	93.56	0.29
		5510	2.47	2.64	93.56	0.29
		5550	2.47	2.64	93.56	0.29
		5670	2.47	2.64	93.56	0.29
		5710	2.47	2.64	93.56	0.29
		5755	2.47	2.64	93.56	0.29
		5795	2.47	2.64	93.56	0.29
11AC20SISO	Ant1	5180	5.09	5.26	96.77	0.14
		5200	5.09	5.25	96.95	0.13
		5240	5.09	5.26	96.77	0.14
		5260	5.08	5.26	96.58	0.15
		5280	5.09	5.26	96.77	0.14
		5320	5.09	5.26	96.77	0.14
		5500	5.09	5.26	96.77	0.14
		5580	5.08	5.25	96.76	0.14
		5700	5.09	5.26	96.77	0.14
		5720	5.09	5.26	96.77	0.14
		5745	5.09	5.26	96.77	0.14
		5785	5.09	5.26	96.77	0.14
		5825	5.09	5.27	96.58	0.15
		5190	2.47	2.64	93.56	0.29
11AC40SISO	Ant1	5230	2.48	2.65	93.58	0.29
		5270	2.48	2.65	93.58	0.29
		5310	2.47	2.65	93.21	0.31
		5510	2.47	2.65	93.21	0.31

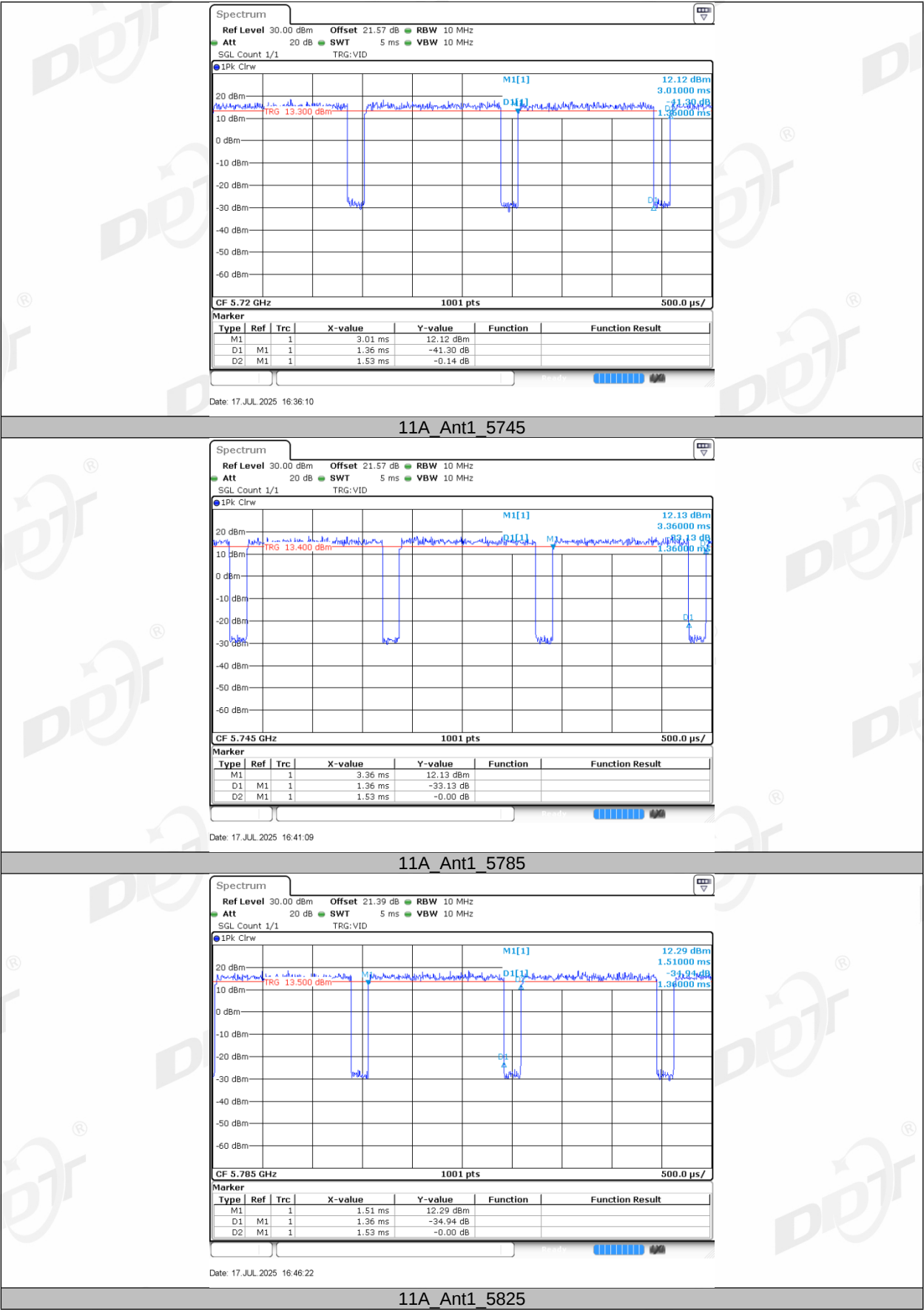
		5550	2.47	2.64	93.56	0.29
		5670	2.48	2.65	93.58	0.29
		5710	2.47	2.65	93.21	0.31
		5755	2.47	2.64	93.56	0.29
		5795	2.48	2.65	93.58	0.29
11AX20SISO	Ant1	5180	4.55	4.73	96.19	0.17
		5200	4.55	4.72	96.40	0.16
		5240	4.55	4.72	96.40	0.16
		5260	4.55	4.72	96.40	0.16
		5280	4.56	4.73	96.41	0.16
		5320	4.55	4.72	96.40	0.16
		5500	4.56	4.73	96.41	0.16
		5580	4.55	4.72	96.40	0.16
		5700	4.56	4.73	96.41	0.16
		5720	4.55	4.72	96.40	0.16
		5745	4.55	4.73	96.19	0.17
		5785	4.55	4.72	96.40	0.16
		5825	4.55	4.72	96.40	0.16
11AX40SISO	Ant1	5190	2.31	2.48	93.15	0.31
		5230	2.31	2.48	93.15	0.31
		5270	2.32	2.49	93.17	0.31
		5310	2.31	2.48	93.15	0.31
		5510	2.31	2.48	93.15	0.31
		5550	2.31	2.48	93.15	0.31
		5670	2.31	2.48	93.15	0.31
		5710	2.31	2.48	93.15	0.31
		5755	2.31	2.48	93.15	0.31
		5795	2.31	2.49	92.77	0.33

7.5. Test graphs













































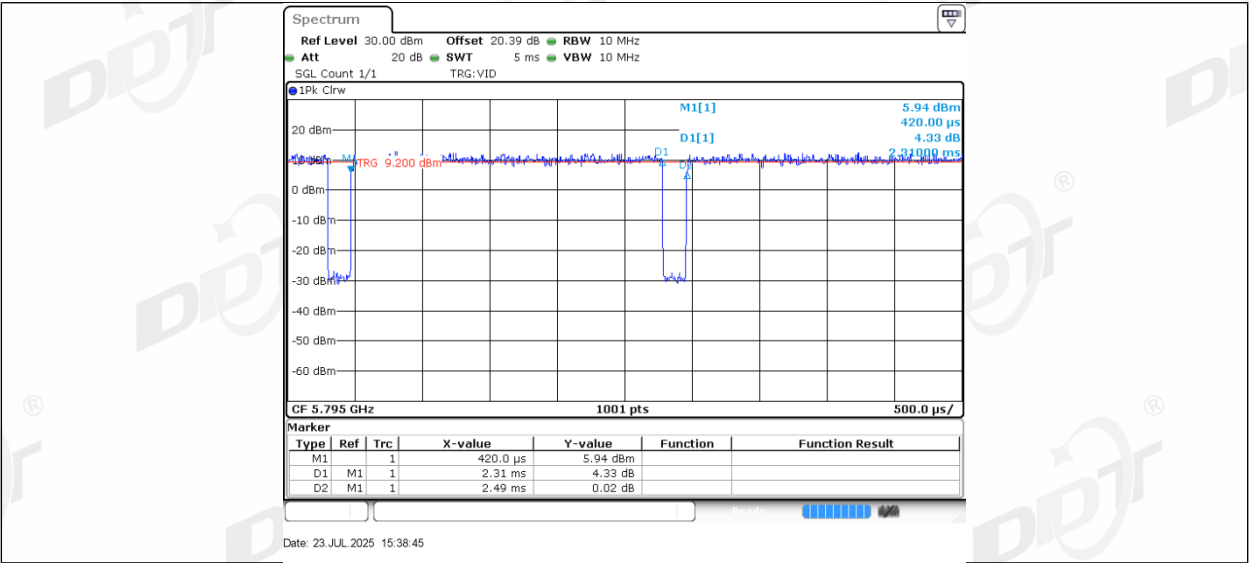






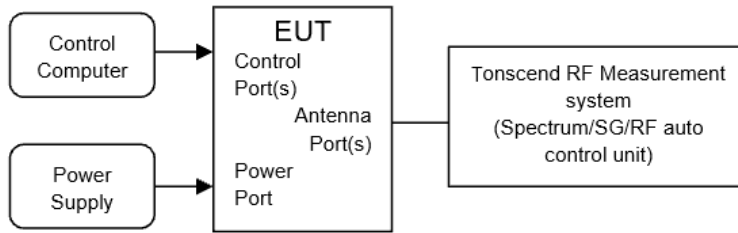






8. Maximum Output Power

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 $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	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 $11 + 10 \log_{10} B$	For FCC:5470 - 5725 For IC:5470 - 5600
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	5650 - 5725
	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

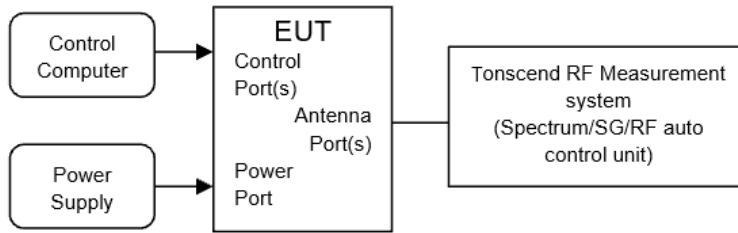
Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	25.2-26.8°C,34.7-41.5%RH	Test Date:	2025.07.17-2025.07.23
Test Power Supply:	AC 120V	Sample Number:	S25061119-001

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	ISED EIRP Limit [dBm]	Verdict
11A	Ant1	5180	13.67	88.89	0.51	14.18	≤23.98	---	18.69	≤22.40	PASS
		5200	13.59	88.89	0.51	14.10	≤23.98	---	18.61	≤22.40	PASS
		5240	12.91	88.89	0.51	13.42	≤23.98	---	17.93	≤22.41	PASS
		5260	13.18	88.89	0.51	13.69	≤23.98	≤22.98	18.20	≤26.99	PASS
		5280	13.08	88.89	0.51	13.59	≤23.98	≤22.98	18.10	≤26.99	PASS
		5320	13.69	88.89	0.51	14.20	≤23.98	≤22.98	18.71	≤26.99	PASS
		5500	14.02	88.89	0.51	14.53	≤23.98	≤22.98	19.04	≤26.99	PASS
		5580	13.08	88.31	0.54	13.62	≤23.98	≤22.98	18.13	≤26.99	PASS
		5700	13.76	88.89	0.51	14.27	≤23.98	≤22.98	18.78	≤26.99	PASS
		5720	13.88	88.89	0.51	14.39	≤23.98	≤22.98	18.90	≤26.99	PASS
		5745	13.66	88.89	0.51	14.17	≤30.00	≤30.00	18.68	---	PASS
		5785	13.90	88.89	0.51	14.41	≤30.00	≤30.00	18.92	---	PASS
11N20 SISO	Ant1	5825	13.71	88.31	0.54	14.25	≤30.00	≤30.00	18.76	---	PASS
		5180	13.57	96.77	0.14	13.71	≤23.98	---	18.22	≤22.60	PASS
		5200	13.56	96.77	0.14	13.70	≤23.98	---	18.21	≤22.61	PASS
		5240	12.96	96.77	0.14	13.10	≤23.98	---	17.61	≤22.61	PASS
		5260	13.24	96.77	0.14	13.38	≤23.98	≤22.98	17.89	≤26.99	PASS
		5280	13.12	96.77	0.14	13.26	≤23.98	≤22.98	17.77	≤26.99	PASS
		5320	13.75	96.77	0.14	13.89	≤23.98	≤22.98	18.40	≤26.99	PASS
		5500	14.07	96.76	0.14	14.21	≤23.98	≤22.98	18.72	≤26.99	PASS
		5580	13.14	96.76	0.14	13.28	≤23.98	≤22.98	17.79	≤26.99	PASS
		5700	13.81	96.77	0.14	13.95	≤23.98	≤22.98	18.46	≤26.99	PASS
		5720	13.96	96.77	0.14	14.10	≤23.98	≤22.98	18.61	≤26.99	PASS
		5745	13.74	96.58	0.15	13.89	≤30.00	≤30.00	18.40	---	PASS
11N40 SISO	Ant1	5785	13.98	96.77	0.14	14.12	≤30.00	≤30.00	18.63	---	PASS
		5825	13.81	96.77	0.14	13.95	≤30.00	≤30.00	18.46	---	PASS
		5190	10.52	93.21	0.31	10.83	≤23.98	---	15.34	≤23.01	PASS
		5230	10.33	93.21	0.31	10.64	≤23.98	---	15.15	≤23.01	PASS
		5270	10.51	93.56	0.29	10.80	≤23.98	≤22.98	15.31	≤26.99	PASS
		5310	11.23	93.56	0.29	11.52	≤23.98	≤22.98	16.03	≤26.99	PASS
		5510	11.23	93.56	0.29	11.52	≤23.98	≤22.98	16.03	≤26.99	PASS
		5550	10.88	93.56	0.29	11.17	≤23.98	≤22.98	15.68	≤26.99	PASS
		5670	10.86	93.56	0.29	11.15	≤23.98	≤22.98	15.66	≤26.99	PASS
		5710	10.97	93.56	0.29	11.26	≤23.98	≤22.98	15.77	≤26.99	PASS
		5755	11.76	93.56	0.29	12.05	≤30.00	≤30.00	16.56	---	PASS
		5795	11.11	93.56	0.29	11.40	≤30.00	≤30.00	15.91	---	PASS
11AC2 OSISO	Ant1	5180	13.63	96.77	0.14	13.77	≤23.98	---	18.28	≤22.60	PASS
		5200	13.59	96.95	0.13	13.72	≤23.98	---	18.23	≤22.60	PASS
		5240	12.94	96.77	0.14	13.08	≤23.98	---	17.59	≤22.60	PASS
		5260	13.23	96.58	0.15	13.38	≤23.98	≤22.98	17.89	≤26.99	PASS
		5280	13.12	96.77	0.14	13.26	≤23.98	≤22.98	17.77	≤26.99	PASS
		5320	13.75	96.77	0.14	13.89	≤23.98	≤22.98	18.40	≤26.99	PASS
		5500	14.06	96.77	0.14	14.20	≤23.98	≤22.98	18.71	≤26.99	PASS
		5580	13.13	96.76	0.14	13.27	≤23.98	≤22.98	17.78	≤26.99	PASS
		5700	13.79	96.77	0.14	13.93	≤23.98	≤22.98	18.44	≤26.99	PASS
		5720	13.93	96.77	0.14	14.07	≤23.98	≤22.98	18.58	≤26.99	PASS
		5745	13.71	96.77	0.14	13.85	≤30.00	≤30.00	18.36	---	PASS
		5785	13.94	96.77	0.14	14.08	≤30.00	≤30.00	18.59	---	PASS
		5825	13.77	96.58	0.15	13.92	≤30.00	≤30.00	18.43	---	PASS
11AC4 OSISO	Ant1	5190	11.18	93.56	0.29	11.47	≤23.98	---	15.98	≤23.01	PASS
		5230	10.39	93.58	0.29	10.68	≤23.98	---	15.19	≤23.01	PASS
		5270	10.16	93.58	0.29	10.45	≤23.98	≤22.98	14.96	≤26.99	PASS

		5310	10.79	93.21	0.31	11.10	≤23.98	≤22.98	15.61	≤26.99	PASS
		5510	10.62	93.21	0.31	10.93	≤23.98	≤22.98	15.44	≤26.99	PASS
		5550	10.08	93.56	0.29	10.37	≤23.98	≤22.98	14.88	≤26.99	PASS
		5670	9.99	93.58	0.29	10.28	≤23.98	≤22.98	14.79	≤26.99	PASS
		5710	10.16	93.21	0.31	10.47	≤23.98	≤22.98	14.98	≤26.99	PASS
		5755	10.94	93.56	0.29	11.23	≤30.00	≤30.00	15.74	---	PASS
		5795	10.26	93.58	0.29	10.55	≤30.00	≤30.00	15.06	---	PASS
11AX2 0SISO	Ant1	5180	12.56	96.19	0.17	12.73	≤23.98	---	17.24	≤22.78	PASS
		5200	12.55	96.40	0.16	12.71	≤23.98	---	17.22	≤22.78	PASS
		5240	11.93	96.40	0.16	12.09	≤23.98	---	16.60	≤22.77	PASS
		5260	12.23	96.40	0.16	12.39	≤23.98	≤22.98	16.90	≤26.99	PASS
		5280	12.12	96.41	0.16	12.28	≤23.98	≤22.98	16.79	≤26.99	PASS
		5320	12.87	96.40	0.16	13.03	≤23.98	≤22.98	17.54	≤26.99	PASS
		5500	13.11	96.41	0.16	13.27	≤23.98	≤22.98	17.78	≤26.99	PASS
		5580	12.14	96.40	0.16	12.30	≤23.98	≤22.98	16.81	≤26.99	PASS
		5700	12.84	96.41	0.16	13.00	≤23.98	≤22.98	17.51	≤26.99	PASS
		5720	13.02	96.40	0.16	13.18	≤23.98	≤22.98	17.69	≤26.99	PASS
		5745	12.79	96.19	0.17	12.96	≤30.00	≤30.00	17.47	---	PASS
11AX4 0SISO	Ant1	5785	13.06	96.40	0.16	13.22	≤30.00	≤30.00	17.73	---	PASS
		5825	12.81	96.40	0.16	12.97	≤30.00	≤30.00	17.48	---	PASS
		5190	9.64	93.15	0.31	9.95	≤23.98	---	14.46	≤23.01	PASS
		5230	9.30	93.15	0.31	9.61	≤23.98	---	14.12	≤23.01	PASS
		5270	9.42	93.17	0.31	9.73	≤23.98	≤22.98	14.24	≤26.99	PASS
		5310	10.24	93.15	0.31	10.55	≤23.98	≤22.98	15.06	≤26.99	PASS
		5510	10.12	93.15	0.31	10.43	≤23.98	≤22.98	14.94	≤26.99	PASS
		5550	9.78	93.15	0.31	10.09	≤23.98	≤22.98	14.60	≤26.99	PASS
		5670	9.73	93.15	0.31	10.04	≤23.98	≤22.98	14.55	≤26.99	PASS
		5710	9.92	93.15	0.31	10.23	≤23.98	≤22.98	14.74	≤26.99	PASS
		5755	10.76	93.15	0.31	11.07	≤30.00	≤30.00	15.58	---	PASS
		5795	10.09	92.77	0.33	10.42	≤30.00	≤30.00	14.93	---	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	For FCC: 5470 - 5725 For ISDE: 5470 - 5600 5650 - 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