



RADIO TEST REPORT

Applicant	:	ZHEJIANG CFMOTO POWER CO.,LTD.
Address of Applicant	:	No.116, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou, Zhejiang, China 311100
Manufacturer	:	GUANGZHOU CHUANG RUI ELECTRIC PARTS FOR VEHICLE CO., LTD.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C
PMN/Equipment under Test	:	Meter
FCC Model No.	:	6AQ2-61, 6AQ1-42, 6AQ3-1B, 6AQ3-1C, 6AQ3-16, 6AQ7-23, 6AQ8-24, 6AR9-10, 6GUF-30, 6GUH-56, 6GUJ-20, 6KI0-20, 8AJ0-10
FCC ID	:	2A9I2-6AQ261
IC	:	32117-6AQ261
IC FVIN	:	6AQ2-61, 6AQ1-42, 6AQ3-1B, 6AQ3-1C, 6AQ3-16, 6AQ7-23, 6AQ8-24, 6AR9-10, 6GUF-30, 6GUH-56, 6GUJ-20, 6KI0-20, 8AJ0-10
HVIN	:	6AQ2-61
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 4 July 24, 2025, ANSI C63.10:2020, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01, RSS-Gen Issue 5 April 2018, ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024
Report No.	:	DDT-RE24031305-2E13
Issue Date	:	2026/05/07
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

Applicant	:	ZHEJIANG CFMOTO POWER CO.,LTD.
Address of Applicant	:	No.116, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou, Zhejiang, China 311100
PMN/Equipment under Test	:	Meter
FCC Model No.	:	6AQ2-61, 6AQ1-42, 6AQ3-1B, 6AQ3-1C, 6AQ3-16, 6AQ7-23, 6AQ8-24, 6AR9-10, 6GUF-30, 6GUH-56, 6GUJ-20, 6KI0-20, 8AJ0-10
IC HVIN	:	6AQ2-61, 6AQ1-42, 6AQ3-1B, 6AQ3-1C, 6AQ3-16, 6AQ7-23, 6AQ8-24, 6AR9-10, 6GUF-30, 6GUH-56, 6GUJ-20, 6KI0-20, 8AJ0-10
HVIN	:	6AQ2-61
Manufacturer	:	GUANGZHOU CHUANG RUI ELECTRIC PARTS FOR VEHICLE CO., LTD.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E,
RSS-247 Issue 4 July 24, 2025,
ANSI C63.10:2020,
789033 D02 General U-NII Test Procedures New Rules v02r01,
662911 D01 Multiple Transmitter Output v02r01,
RSS-Gen Issue 5 April 2018
ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24031305-2E13		
Date of Receipt:	2024/05/07	Date of Test:	2025/08/13 - 2025/08/27

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Damon Hu
		
2025/09/26	2026/05/07	2026/05/07

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/05/07	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e), RSS-247 Clause 7.3, RSS-GEN Clause 6.7	/	Pass
2	Output Power	FCC 15.407 (a) ; RSS-247 Clause 7.3	/	Pass
3	Power Spectral Density	FCC 15.407 (a) ; RSS-247 Clause 7.3	/	Pass
4	Frequency Stability Measurement	FCC 15.407 (g); RSS-247 Clause 7.3; RSS-GEN Clause 8.11	/	Pass
5	Radiated Emission	FCC 15.407 (b); FCC 15.209; FCC 15.205; RSS-247 Clause 7.3; RSS-GEN Clause 8.9	/	Pass
6	Band Edge Compliance	FCC 15.407 (b); FCC 15.209; FCC 15.205; RSS-247 Clause 7.3; RSS-GEN Clause 8.10	/	Pass
7	Dynamic Frequency Selection	FCC 15.407 (h); RSS-247 Clause 7.3.6	/	N/A
8	Power Line Conducted Emissions	FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 8.8	/	N/A
9	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass

Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

2. General Test Information

2.1. Description of EUT

PMN/EUT Name	: Meter
FCC Model Number	: 6AQ2-61, 6AQ1-42, 6AQ3-1B, 6AQ3-1C, 6AQ3-16, 6AQ7-23, 6AQ8-24, 6AR9-10, 6GUF-30, 6GUH-56, 6GUJ-20, 6KI0-20, 8AJ0-10
Difference of model number	: Multiple models have the same hardware, only the UI and software function is different. So, choose 6AQ2-61-61 to test.
IC HVIN	: 6AQ2-61, 6AQ1-42, 6AQ3-1B, 6AQ3-1C, 6AQ3-16, 6AQ7-23, 6AQ8-24, 6AR9-10, 6GUF-30, 6GUH-56, 6GUJ-20, 6KI0-20, 8AJ0-10
HVIN	: 6AQ2-61
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V
Antenna Type	: ceramic antenna
Max Antenna Gain (dBi)	: 2.47

Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: U-NII-3: 5745 MHz to 5825 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

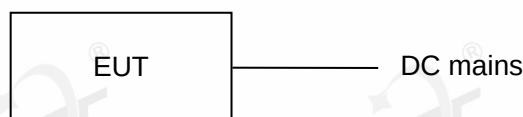
Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

The test software: putty.exe,

and select test channel, wireless mode and data rate, below the worst case configuration was used for relevant final test.

The pathloss of external cable: 2 dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency				
Tested mode	Tx Power Setting	Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	Ant1			
802.11a	63	6	LCH: 149	5745
		6	MCH: 157	5785
		6	HCH: 165	5825
802.11n HT20	63	MCS 0	LCH: 149	5745
		MCS 0	MCH: 157	5785
		MCS 0	HCH: 165	5825
802.11n HT40	63	MCS 0	LCH: 151	5755
		MCS 0	HCH: 159	5795
802.11ac VHT20	63	MCS 0	LCH: 149	5745
		MCS 0	MCH: 157	5785
		MCS 0	HCH: 165	5825
802.11ac VHT40	63	MCS 0	LCH: 151	5755
		MCS 0	HCH: 159	5795
802.11ac VHT80	63	MCS 0	155	5775
Rx Mode	/	/	/	/
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

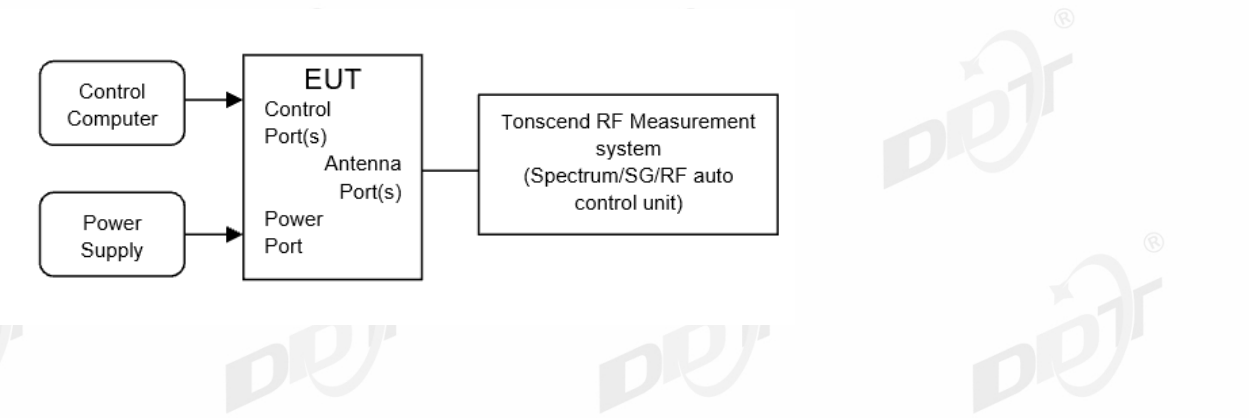
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.40 dB (3.6 GHz $\leq$ f < 8 GHz)
	1.66 dB (8 GHz $\leq$ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☑RF Connected Test (RF Measurement System 4#)					
Signal & Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28	1 Year
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28	1 Year
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10	1 Year
RF Control Unit	Tonscend	JS0806-2	21I8060485	2026/03/28	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28	1 Year
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

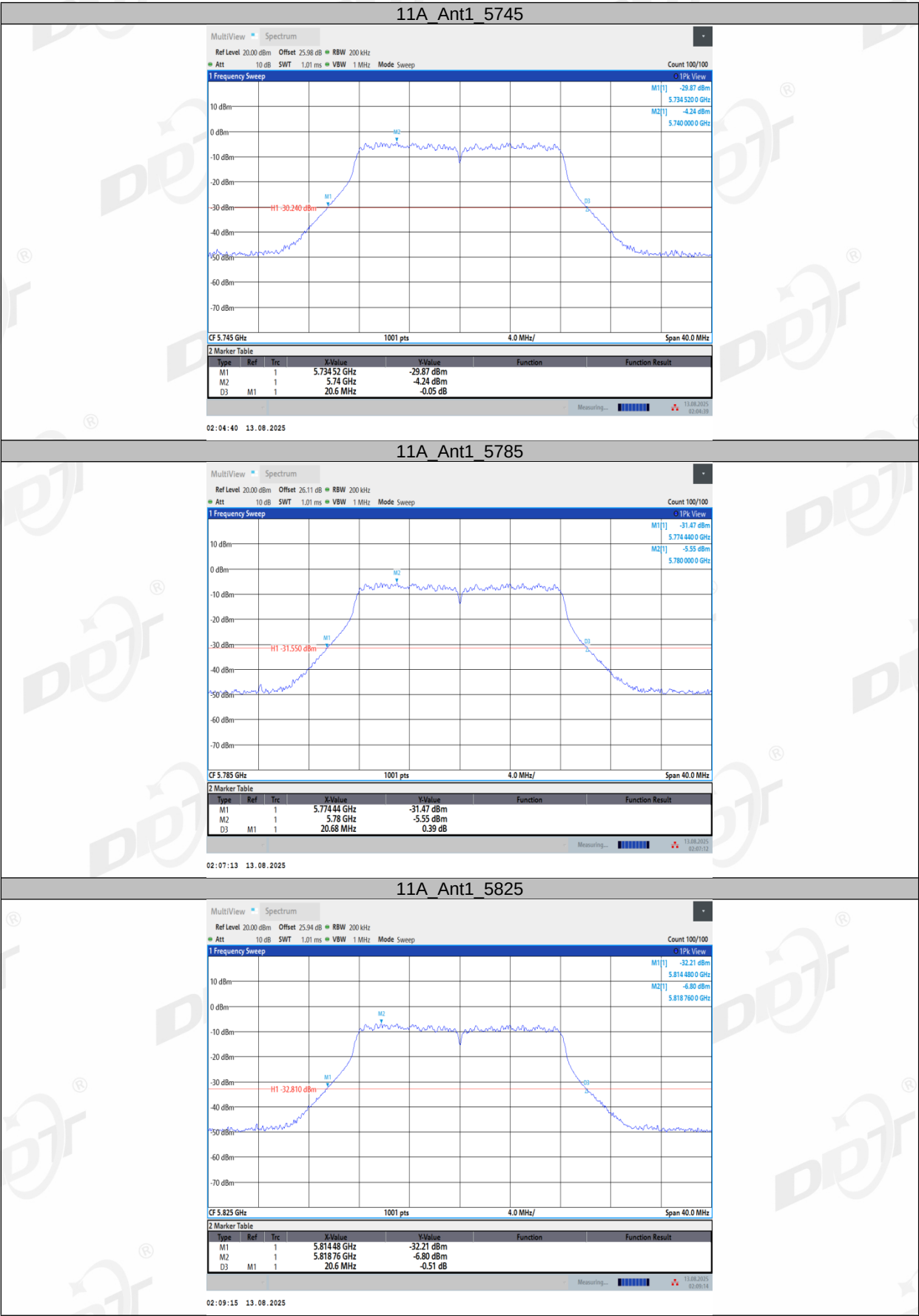
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#				
Ambient Condition:	24.6°C,45.1%RH	Test Date:	2025.08.13				
Test Power Supply:	DC 12V	Sample Number:	S24031305-002				
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	20.60	5734.52	5755.12	---	---
		5785	20.68	5774.44	5795.12	---	---
		5825	20.60	5814.48	5835.08	---	---
11N20SISO	Ant1	5745	21.12	5734.48	5755.60	---	---
		5785	21.16	5774.44	5795.60	---	---
		5825	21.12	5814.44	5835.56	---	---
11N40SISO	Ant1	5755	42.24	5733.64	5775.88	---	---
		5795	42.24	5773.56	5815.80	---	---
11AC20SISO	Ant1	5745	20.76	5734.52	5755.28	---	---
		5785	20.88	5774.44	5795.32	---	---
		5825	20.80	5814.44	5835.24	---	---
11AC40SISO	Ant1	5755	42.08	5733.72	5775.80	---	---
		5795	41.52	5773.96	5815.48	---	---
11AC80SISO	Ant1	5775	82.40	5733.72	5816.12	---	---

4.5. Test graphs





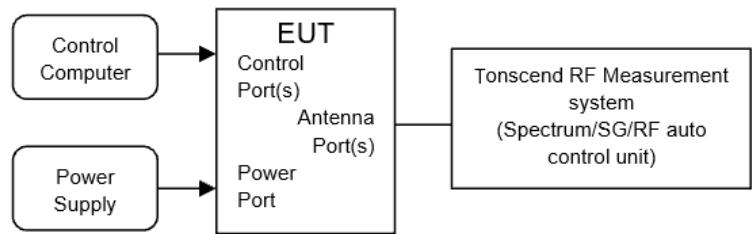






5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

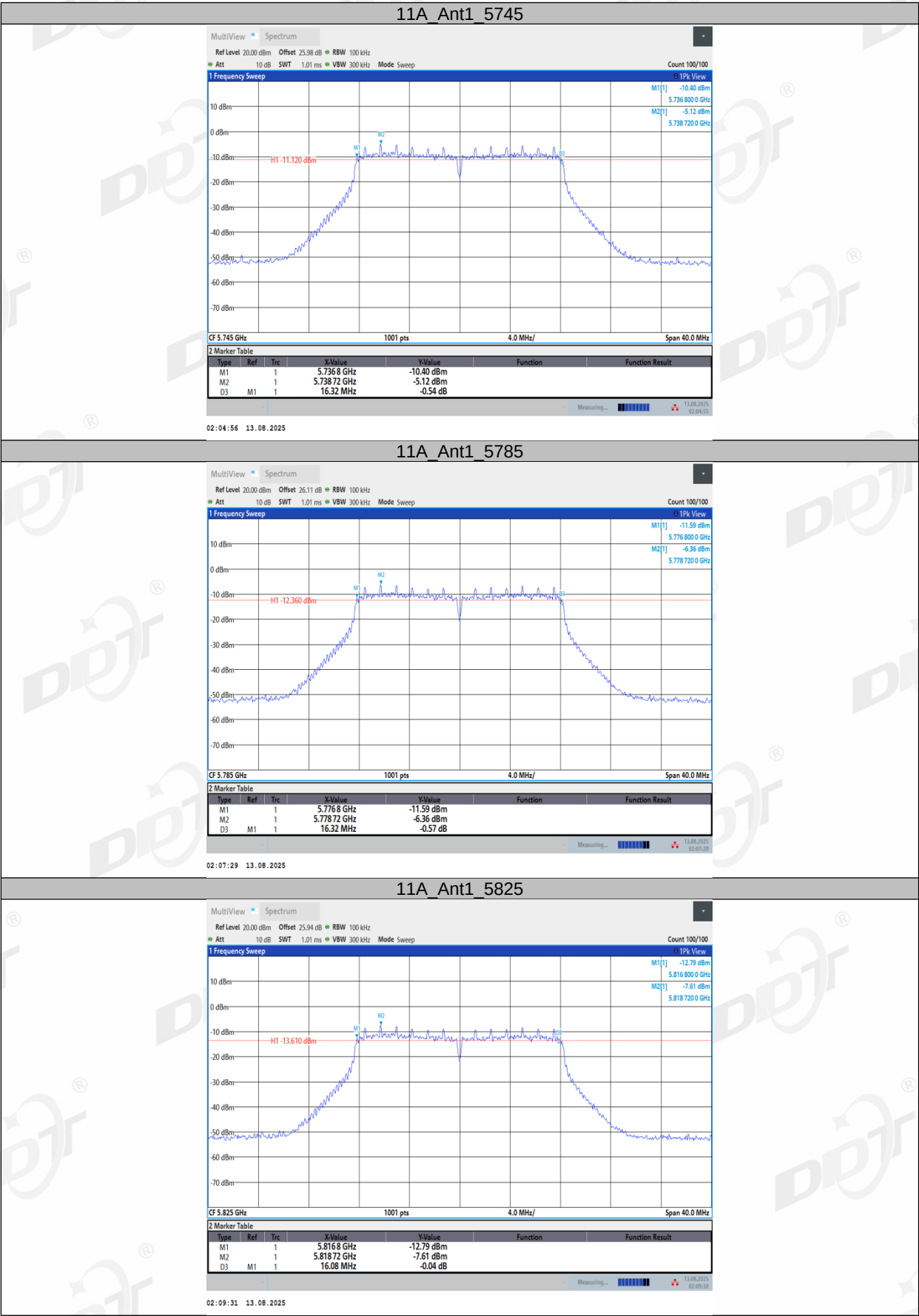
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4. Test result B4

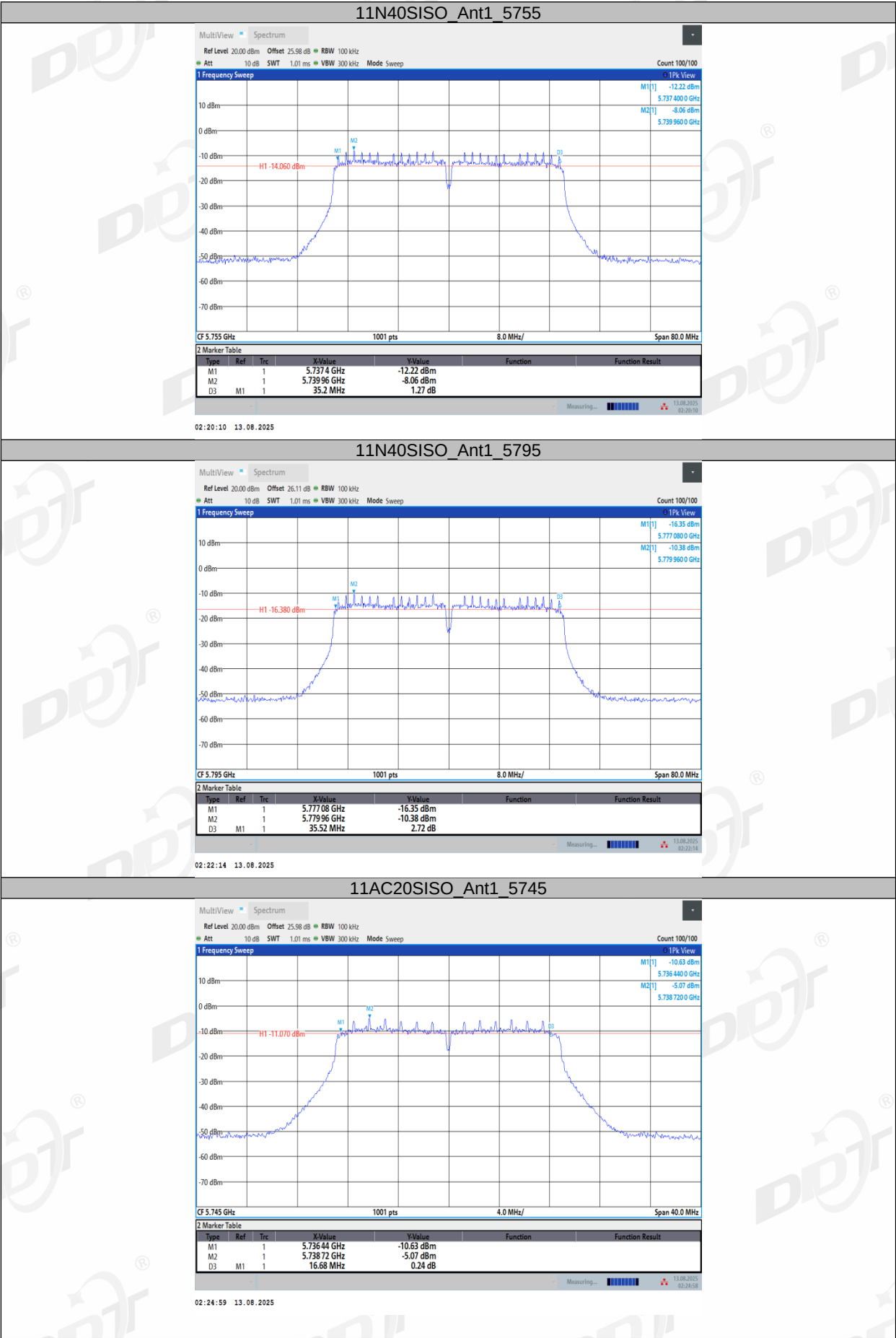
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.6°C, 45.1%RH	Test Date:	2025.08.13
Test Power Supply:	DC 12V	Sample Number:	S24031305-002

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
		5785	16.32	5776.80	5793.12	0.5	PASS
		5825	16.08	5816.80	5832.88	0.5	PASS
11N20SISO	Ant1	5745	16.92	5736.56	5753.48	0.5	PASS
		5785	16.92	5776.56	5793.48	0.5	PASS
		5825	16.92	5816.44	5833.36	0.5	PASS
11N40SISO	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
		5795	35.52	5777.08	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	16.68	5736.44	5753.12	0.5	PASS
		5785	16.68	5776.44	5793.12	0.5	PASS
		5825	16.68	5816.44	5833.12	0.5	PASS
11AC40SISO	Ant1	5755	35.52	5737.08	5772.60	0.5	PASS
		5795	35.52	5777.08	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs B4





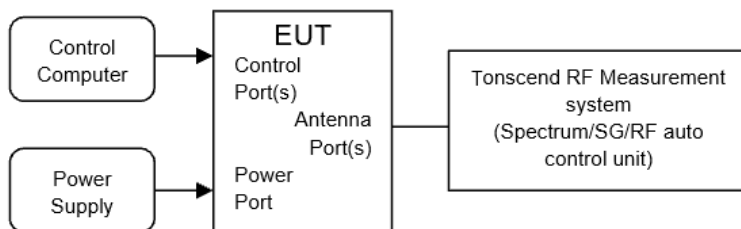






6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.

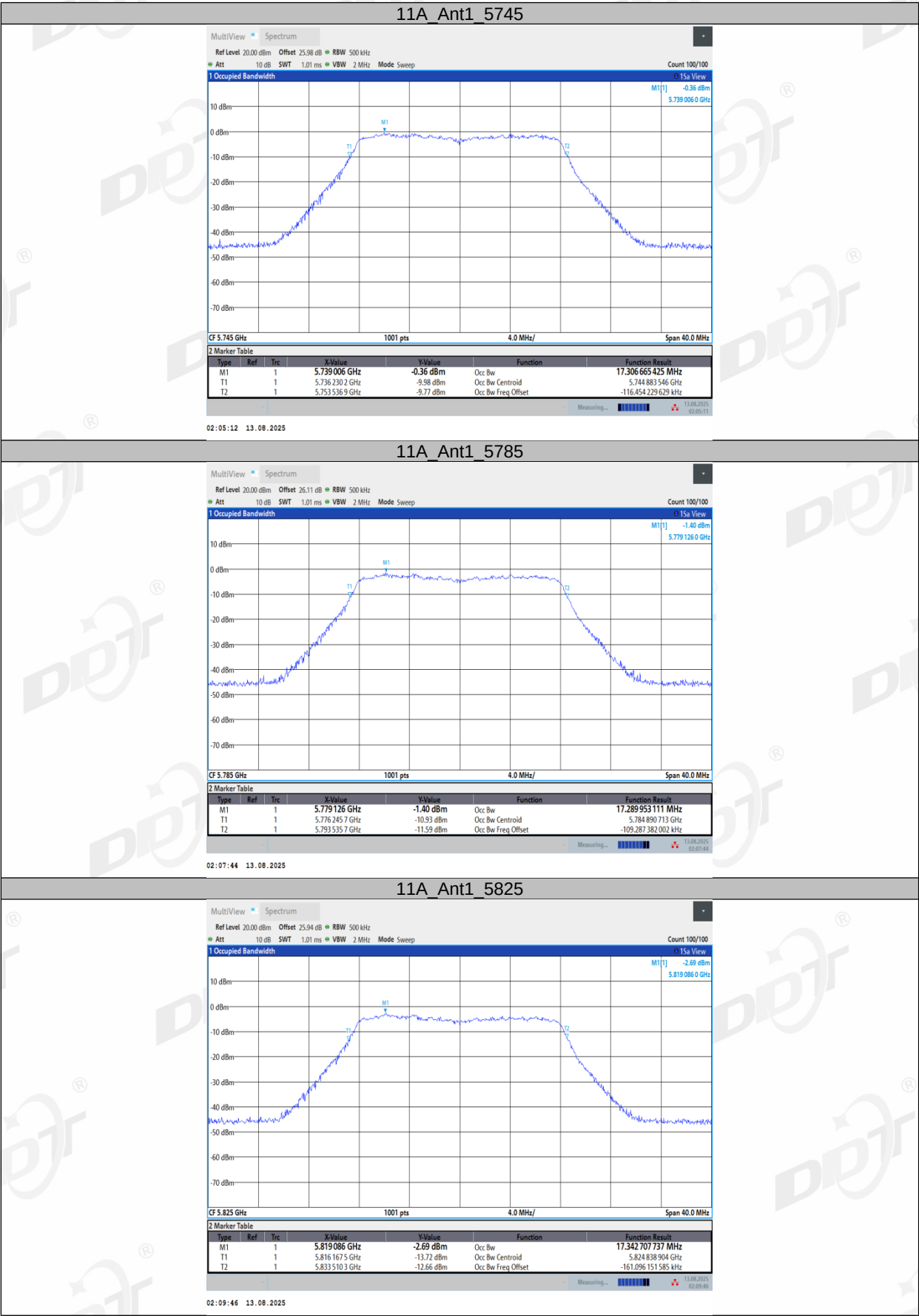
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

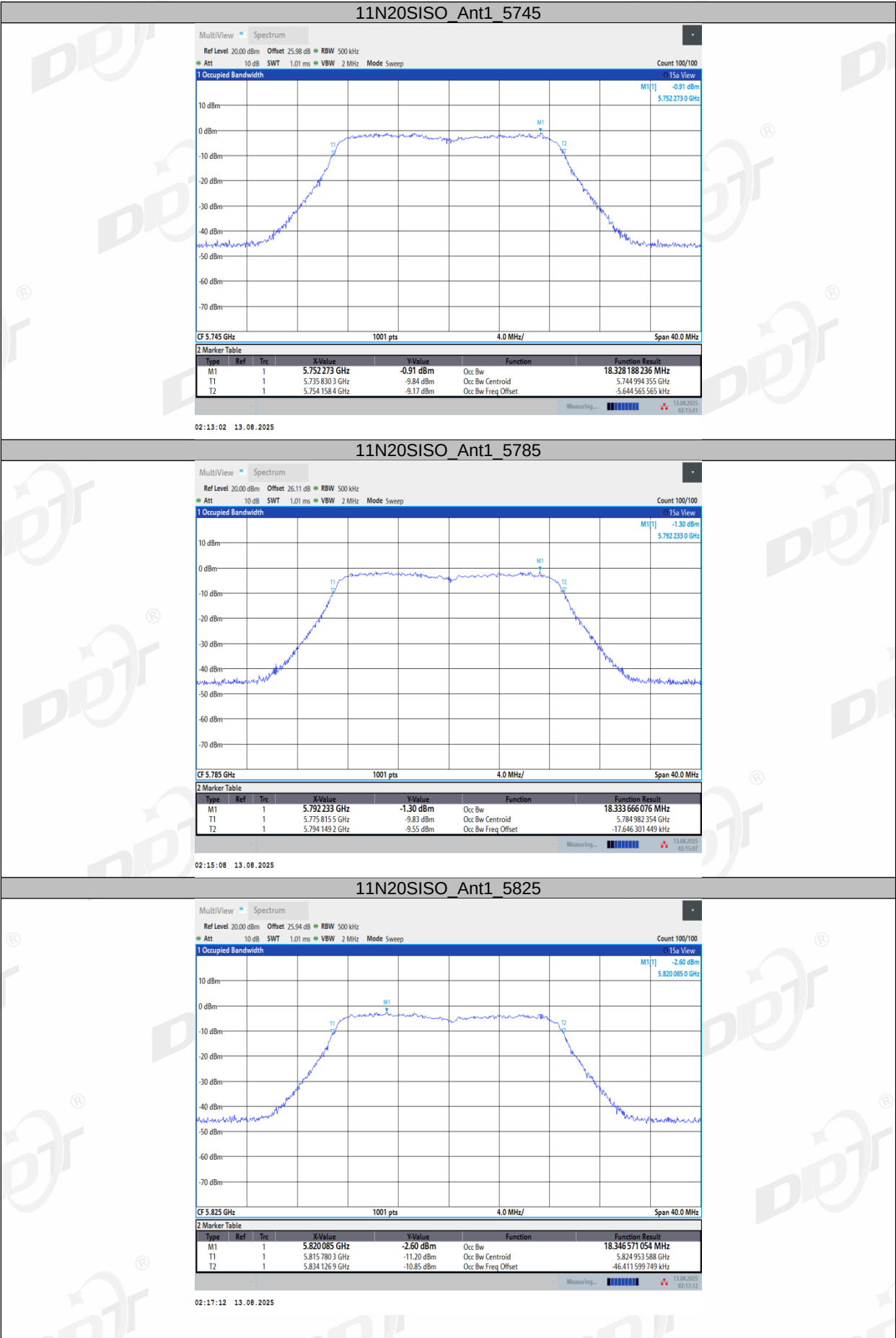
- (2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

6.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#				
Ambient Condition:	24.6°C, 45.1%RH	Test Date:	2025.08.13				
Test Power Supply:	DC 12V	Sample Number:	S24031305-002				
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	17.307	5736.2302	5753.5369	---	---
		5785	17.290	5776.2457	5793.5357	---	---
		5825	17.343	5816.1675	5833.5103	---	---
11N20SISO	Ant1	5745	18.328	5735.8303	5754.1584	---	---
		5785	18.334	5775.8155	5794.1492	---	---
		5825	18.347	5815.7803	5834.1269	---	---
11N40SISO	Ant1	5755	36.456	5736.6290	5773.0854	---	---
		5795	36.442	5776.6127	5813.0544	---	---
11AC20SISO	Ant1	5745	18.055	5735.9086	5753.9639	---	---
		5785	18.065	5775.8988	5793.9634	---	---
		5825	18.075	5815.8754	5833.9499	---	---
11AC40SISO	Ant1	5755	36.453	5736.5923	5773.0452	---	---
		5795	36.435	5776.7010	5813.1357	---	---
11AC80SISO	Ant1	5775	75.833	5736.8390	5812.6721	---	---

6.5. Test graphs





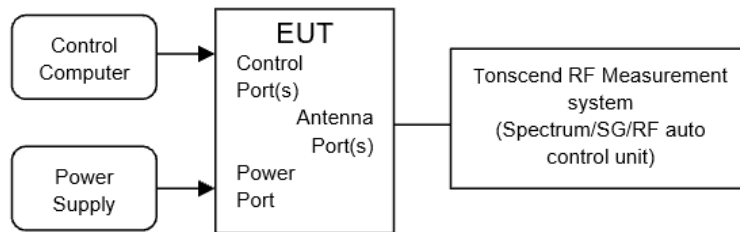






7. Duty Cycle

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:

Duty cycle= Pulse's on time / Burst cycle

7.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.6°C, 45.1%RH	Test Date:	2025.08.13
Test Power Supply:	DC 12V	Sample Number:	S24031305-002

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.07	2.15	96.28
		5785	2.07	2.13	97.18
		5825	2.07	2.19	94.52
11N20SISO	Ant1	5745	1.92	2.05	93.66
		5785	1.92	2.02	95.05
		5825	1.92	2.06	93.20
11N40SISO	Ant1	5755	0.95	1.05	90.48
		5795	0.95	1.05	90.48
11AC20SISO	Ant1	5745	1.93	2.06	93.69
		5785	1.94	2.08	93.27
		5825	1.93	2.09	92.34
11AC40SISO	Ant1	5755	0.95	1.11	85.59
		5795	0.96	1.12	85.71
11AC80SISO	Ant1	5775	0.46	0.62	74.19

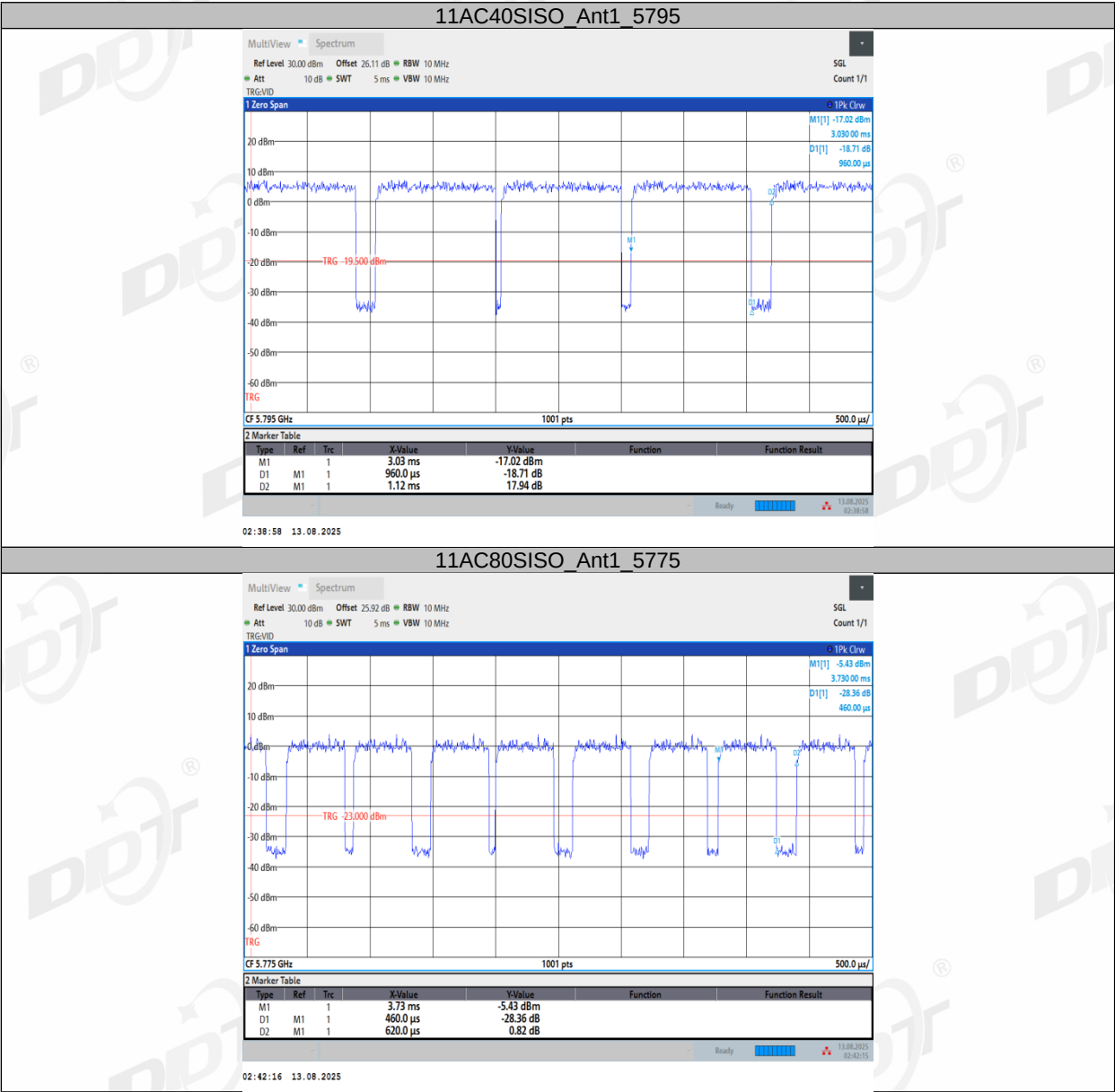
7.5. Test graphs





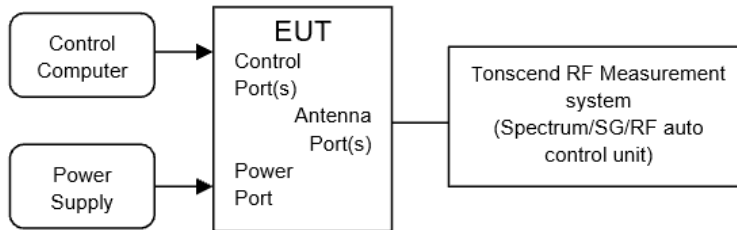






8. Maximum Output Power

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 $10 + 10 \log_{10} B$	5250-5350
	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 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 FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	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 $17 + 10 \log_{10} B$	
	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.

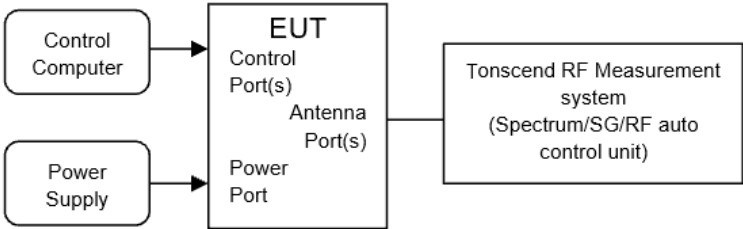
8.4. Test result channel power

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.6°C, 45.1%RH	Test Date:	2025.08.13
Test Power Supply:	DC 12V	Sample Number:	S24031305-002

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	AV power Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Verdict
11A	Ant1	5745	96.28	0.16	10.34	≤30.00	≤30.00	12.81	PASS
		5785	94.93	0.23	10.63	≤30.00	≤30.00	13.10	PASS
		5825	92.83	0.32	10.66	≤30.00	≤30.00	13.13	PASS
11N20SISO	Ant1	5745	92.34	0.35	10.84	≤30.00	≤30.00	13.31	PASS
		5785	91.87	0.37	10.93	≤30.00	≤30.00	13.40	PASS
		5825	94.12	0.26	10.70	≤30.00	≤30.00	13.17	PASS
11N40SISO	Ant1	5755	85.59	0.68	11.14	≤30.00	≤30.00	13.61	PASS
		5795	86.24	0.64	11.28	≤30.00	≤30.00	13.75	PASS
11AC20SISO	Ant1	5745	92.34	0.35	10.70	≤30.00	≤30.00	13.17	PASS
		5785	93.72	0.28	10.70	≤30.00	≤30.00	13.17	PASS
		5825	97.97	0.09	10.39	≤30.00	≤30.00	12.86	PASS
11AC40SISO	Ant1	5755	85.59	0.68	11.05	≤30.00	≤30.00	13.52	PASS
		5795	84.82	0.72	11.27	≤30.00	≤30.00	13.74	PASS
11AC80SISO	Ant1	5775	73.02	1.37	11.30	≤30.00	≤30.00	13.77	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

9.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.6°C, 45.1%RH	Test Date:	2025.08.13
Test Power Supply:	DC 12V	Sample Number:	S24031305-002

Test Mode	Antenna	Frequency [MHz]	Result [dBm/500kHz]	Limit [dBm/500kHz]	EIRP [dBm/MHz]	Verdict
11A	Ant1	5745	-8.30	≤30.00	-5.83	PASS
		5785	-9.65	≤30.00	-7.18	PASS
		5825	-10.82	≤30.00	-8.35	PASS
11N20SISO	Ant1	5745	-8.57	≤30.00	-6.10	PASS
		5785	-8.90	≤30.00	-6.43	PASS
		5825	-10.21	≤30.00	-7.74	PASS
11N40SISO	Ant1	5755	-11.56	≤30.00	-9.09	PASS
		5795	-13.80	≤30.00	-11.33	PASS
11AC20SISO	Ant1	5745	-8.59	≤30.00	-6.12	PASS
		5785	-8.93	≤30.00	-6.46	PASS
		5825	-10.15	≤30.00	-7.68	PASS
11AC40SISO	Ant1	5755	-11.44	≤30.00	-8.97	PASS
		5795	-13.52	≤30.00	-11.05	PASS
11AC80SISO	Ant1	5775	-15.69	≤30.00	-13.22	PASS

Note: The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

