



RADIO TEST REPORT

Applicant	:	Skypine Electronics (ShenZhen)Co.,Ltd.
Address of Applicant	:	3rd Floor of Building B,Jingang Technology Park, Qiaotou Village,Fuhai Sub-District,Baoan, Shenzhen,China
Manufacturer	:	Skypine Electronics (ShenZhen)Co.,Ltd.
Address of Manufacturer	:	3rd Floor of Building B,Jingang Technology Park, Qiaotou Village,Fuhai Sub-District,Baoan, Shenzhen,China
Equipment under Test	:	Car Multimedia
Model No.	:	WZA12000
FCC ID	:	V8V-WZA12000
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63.10-2020
Report No.	:	DDT-RE25123016-1E02
Issue Date	:	2026/01/21
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

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Test Report Declare

Applicant	:	Skypine Electronics (ShenZhen)Co.,Ltd.
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Model No.	:	WZA12000
Manufacturer	:	Skypine Electronics (ShenZhen)Co.,Ltd.
Address of Manufacturer	:	3rd Floor of Building B,Jingang Technology Park, Qiaotou Village,Fuhai Sub-District,Baoan, Shenzhen,China

Test Standard Used:
47 CFR Part 15 Subpart E,
ANSI C63.10-2020

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-RE25123016-1E02		
Date of Receipt:	2026/01/04	Date of Test:	2026/01/04 - 2026/01/21

Created: Tiger Mo	Reviewed: Johnson Huang	Approved: Damon Hu
		
2026/01/21	2026/01/21	2026/01/21

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	2026/01/21	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	47 CFR Part 15 15.407 (e)	/	Pass
2	Output Power	47 CFR Part 15 15.407 (a)	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.407 (a)	/	Pass
4	Frequency Stability Measurement	47 CFR Part 15 15.407 (g)	/	Pass
5	Radiated Emission	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205	/	Pass
7	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h)	/	Pass
8	Antenna Requirement	47 CFR Part 15.203	/	Pass
9	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	N/A
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

EUT Name	:	Car Multimedia
Model Number	:	WZA12000
Difference of model number	:	/
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 12V
Antenna Type	:	Built-in Antenna
Max Antenna Gain(dBi)	:	-3.09

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)		/
UNII-3							
149	5745	151	5755	155	5775	/	/
153	5765	159	5795	/	/	/	/
157	5785	/	/	/	/	/	/
161	5805	/	/	/	/	/	/
165	5825	/	/	/	/	/	/

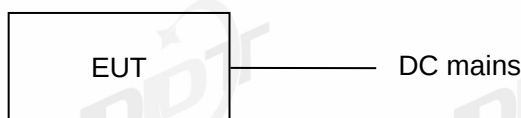
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's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

“☒” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

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:

Test software: Qualcomm Radio Control Tool.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

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			
IEEE 802.11a	11	6	LCH: CH149	5745
	11	6	MCH: CH157	5785
	11	6	HCH: CH165	5825
IEEE 802.11n HT20	11	MCS 0	LCH: CH149	5745
	11	MCS 0	MCH: CH157	5785
	11	MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	11	MCS 0	LCH: CH151	5755
	11	MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	11	MCS 0	LCH: CH149	5745
	11	MCS 0	MCH: CH157	5785
	11	MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	11	MCS 0	LCH: CH159	5755
	11	MCS 0	HCH: CH36	5795
IEEE 802.11ac VHT80	11	MCS 0	CH155	5775
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 to106 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

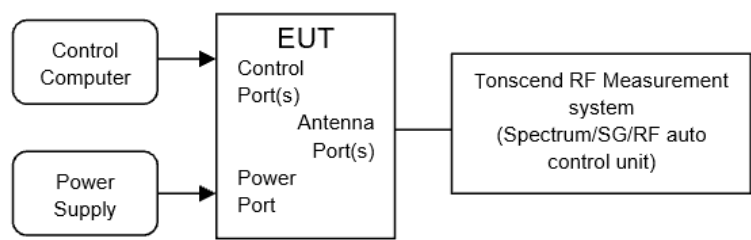
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9 \text{ kHz} \leq f < 7 \text{ GHz}$);
	3.31 dB ($7 \text{ GHz} \leq f < 40 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.14 dB (Antenna Polarize: H)
	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
Uncertainty for Power line conduction emission test	4.58 dB (18 GHz - 40 GHz)
	3.32dB (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
☒ RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10
RF Control Unit	Tonscend	JS0806-2	21I8060485	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	Just for report	5725 - 5850

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.

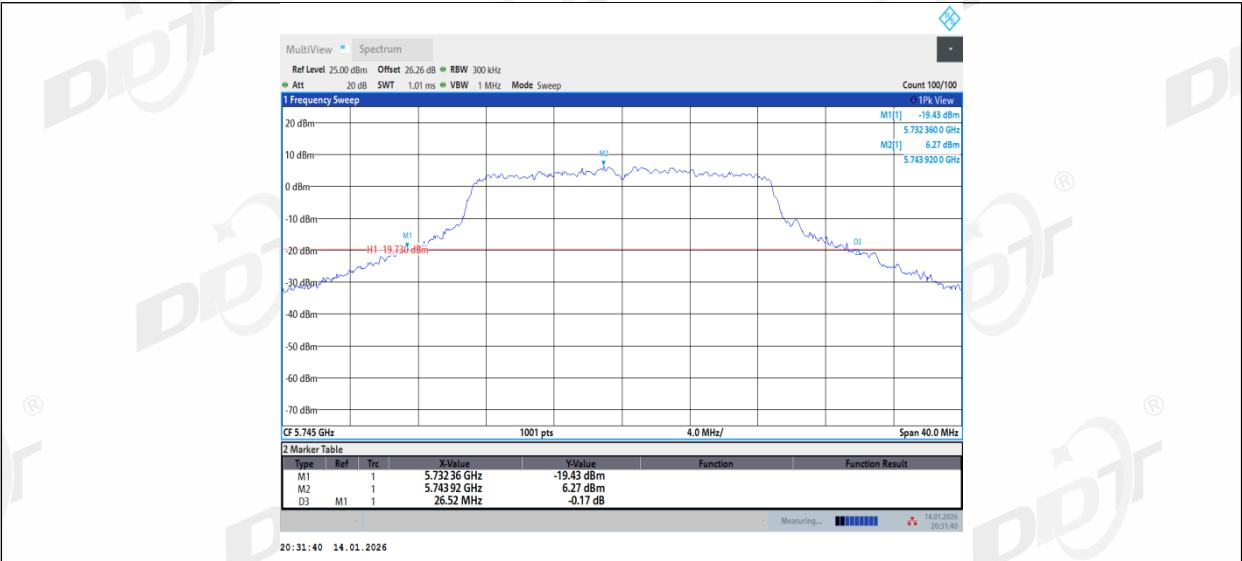
4.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

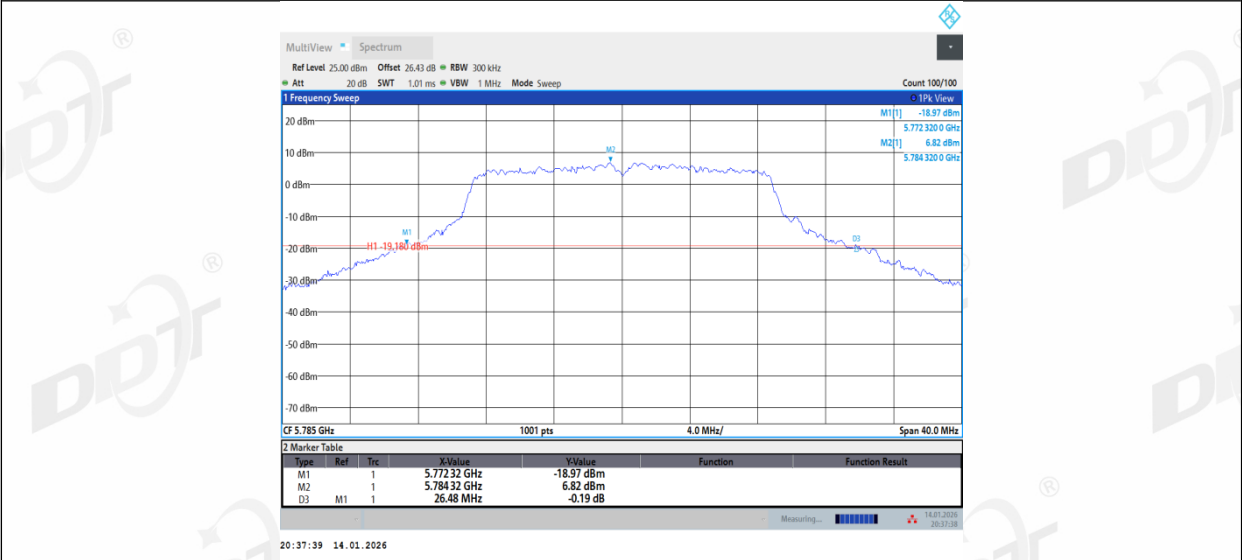
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	23.44	5733.92	5757.36	---	---
		5785	24.68	5773.08	5797.76	---	---
		5825	24.04	5813.32	5837.36	---	---
11N20SISO	Ant1	5745	26.52	5732.36	5758.88	---	---
		5785	26.48	5772.32	5798.80	---	---
		5825	27.76	5811.40	5839.16	---	---
11N40SISO	Ant1	5755	42.32	5733.80	5776.12	---	---
		5795	42.64	5773.72	5816.36	---	---
11AC20SISO	Ant1	5745	26.40	5732.36	5758.76	---	---
		5785	26.96	5771.88	5798.84	---	---
		5825	27.36	5811.40	5838.76	---	---
11AC40SISO	Ant1	5755	42.40	5733.72	5776.12	---	---
		5795	42.56	5773.72	5816.28	---	---
11AC80SISO	Ant1	5775	85.12	5733.08	5818.20	---	---

4.5. Test graphs

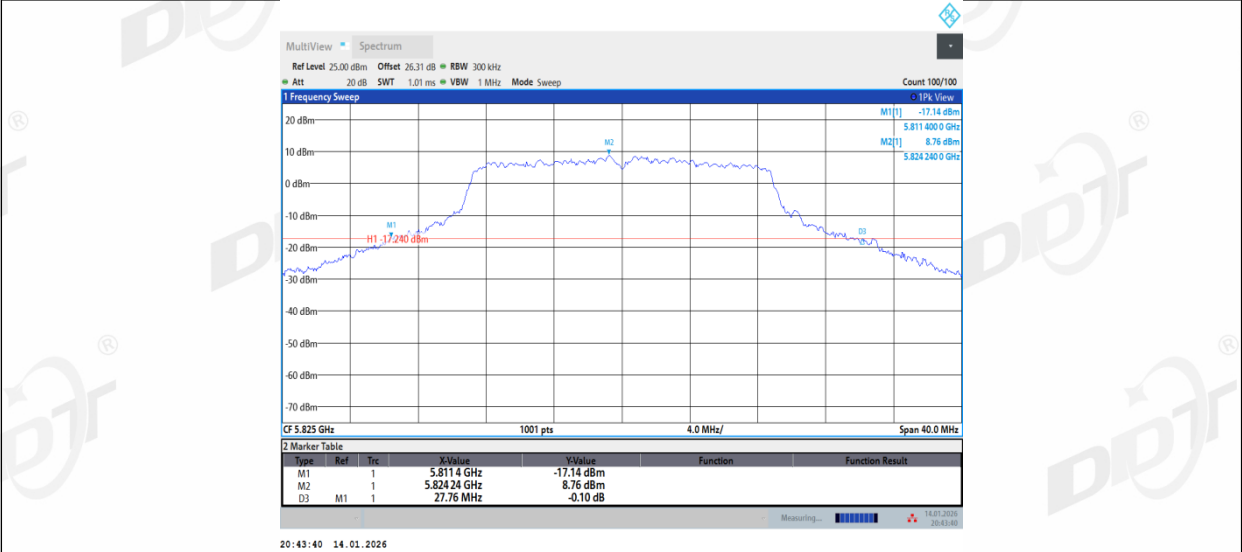




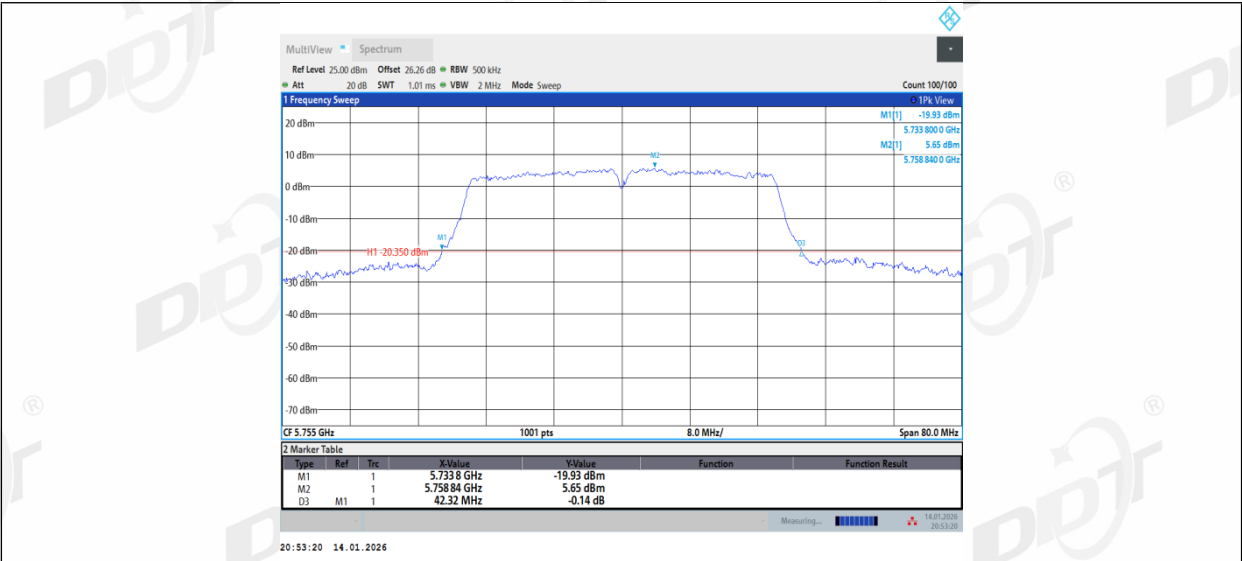
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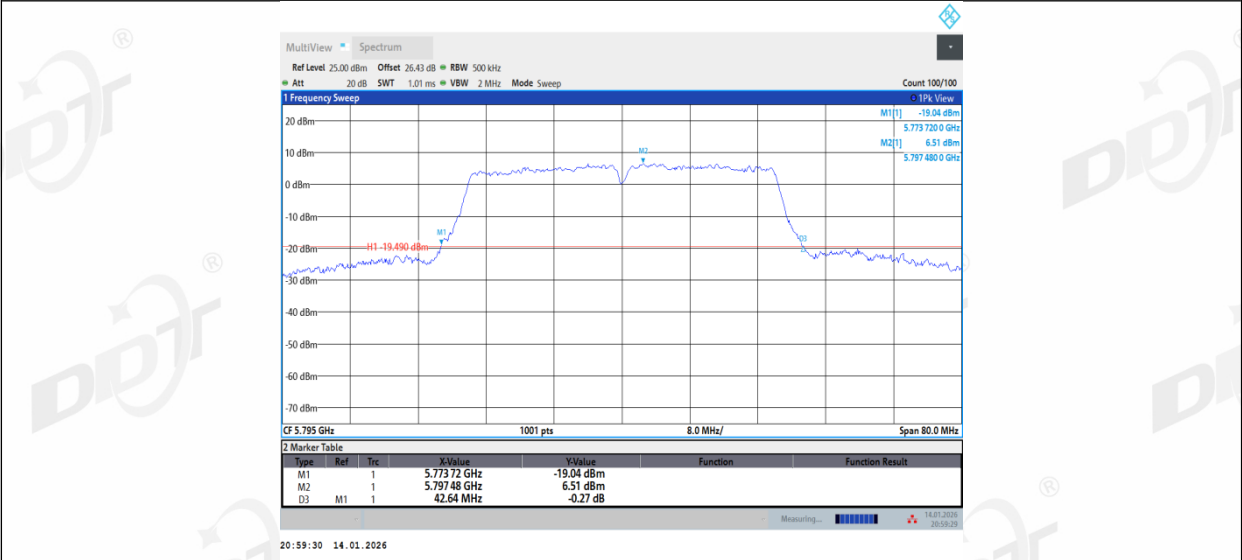
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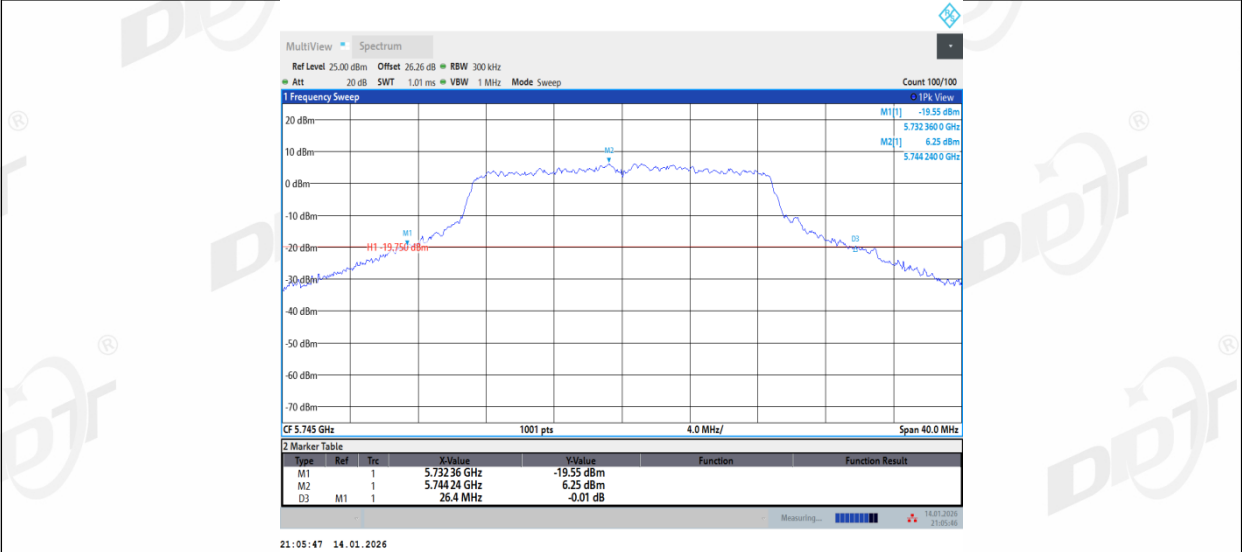
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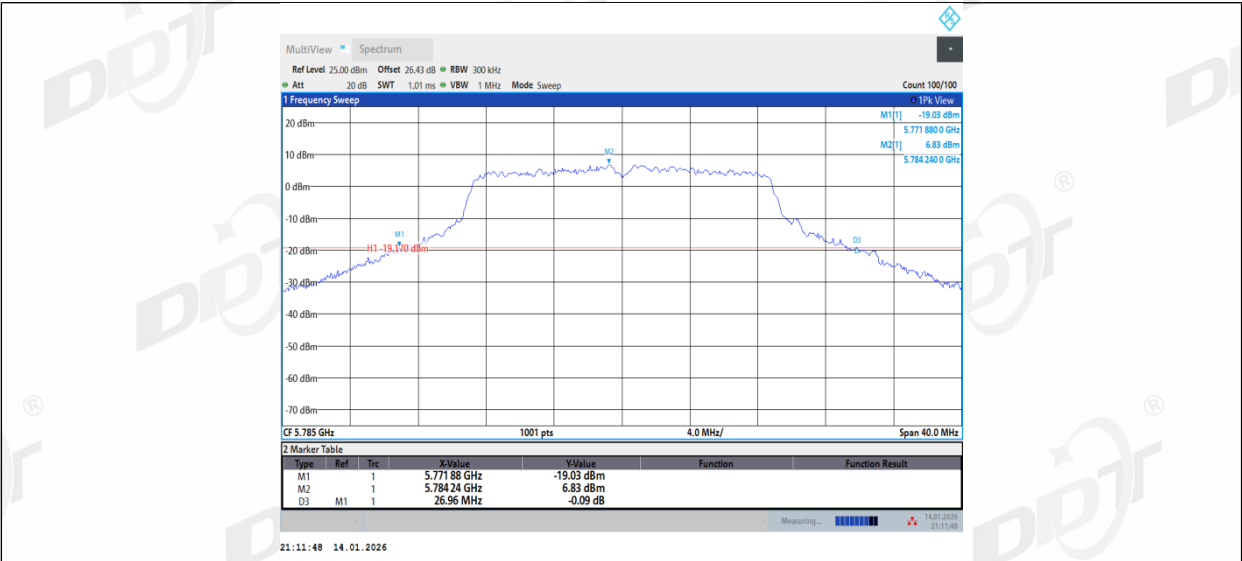
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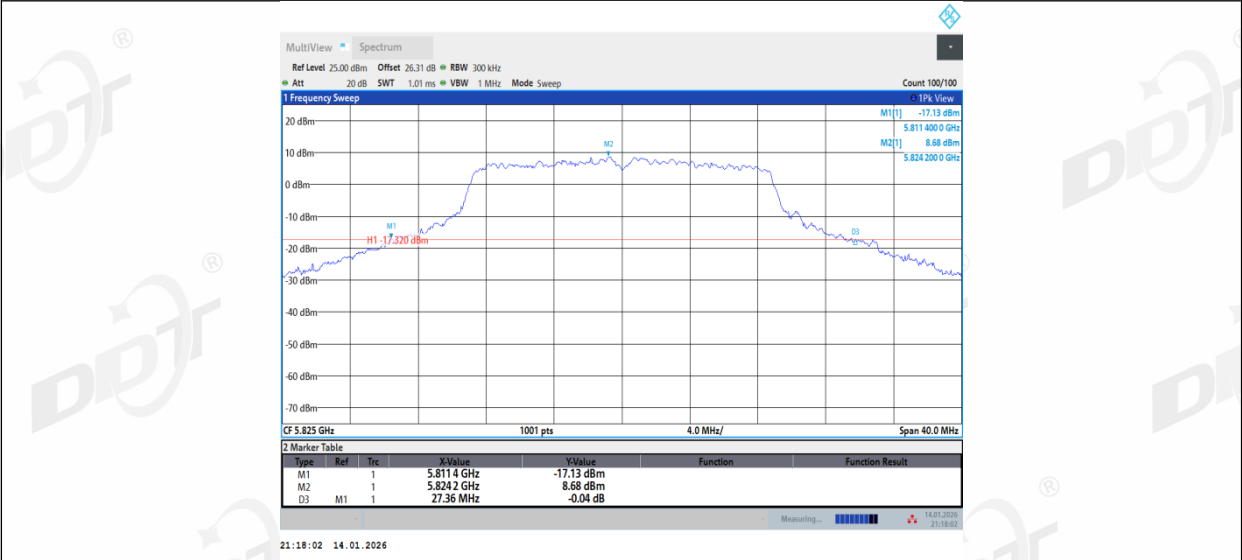
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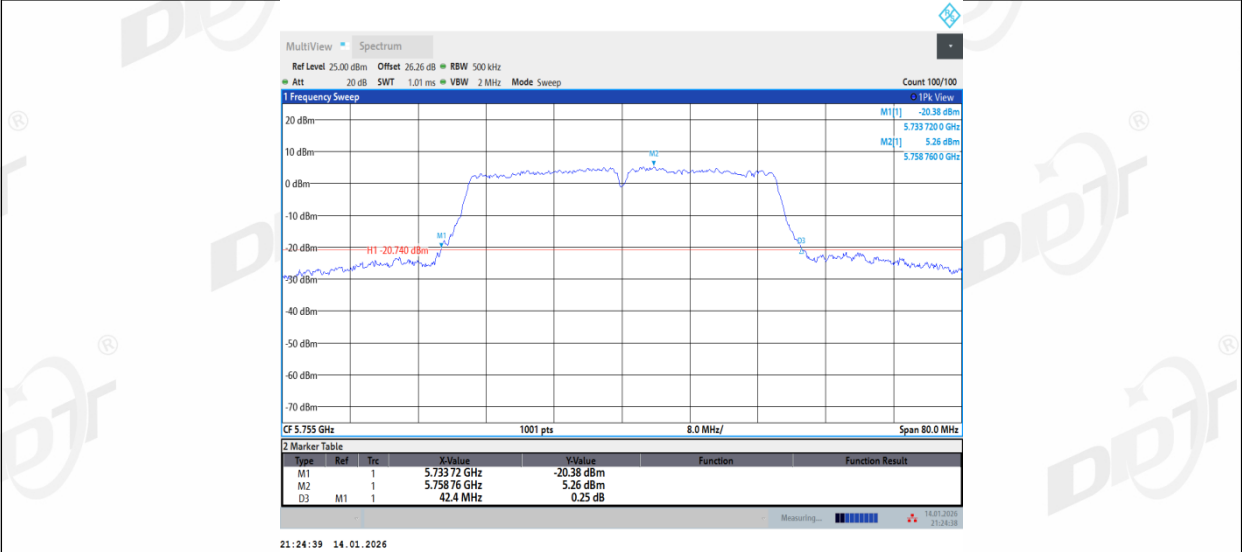
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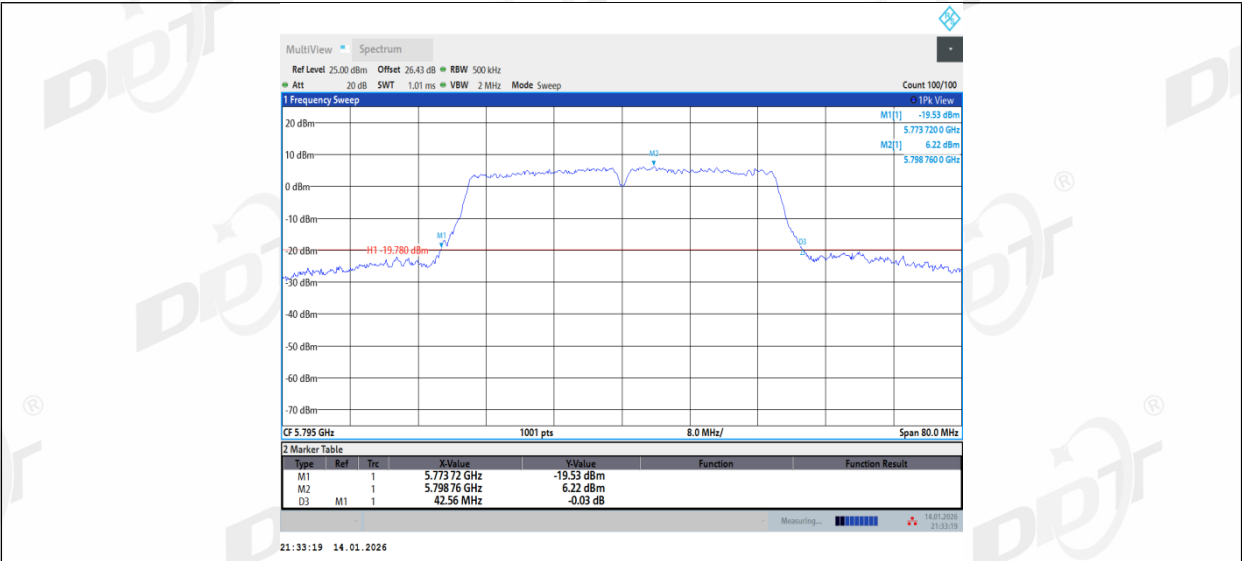
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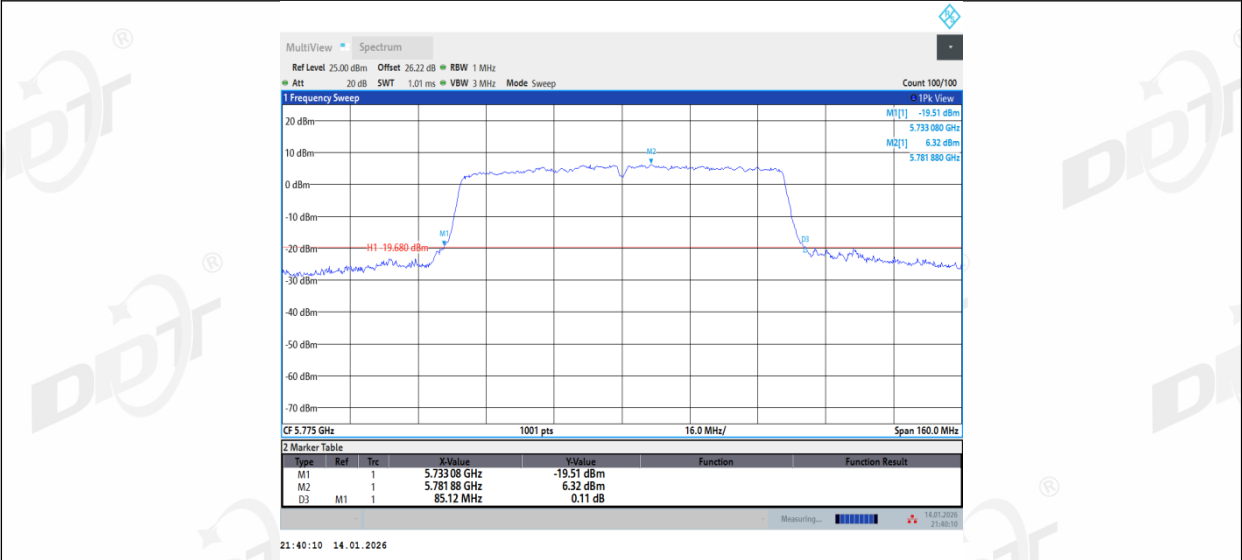
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11AC40SISO_Ant1_5795

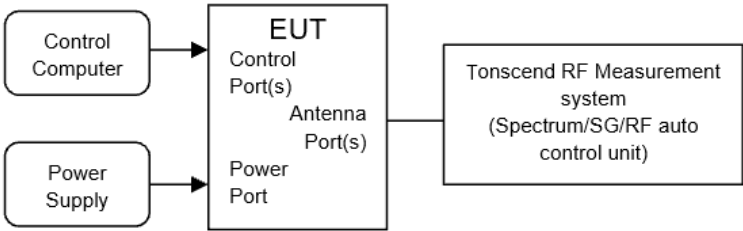


11AC80SISO_Ant1_5775



5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E		
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

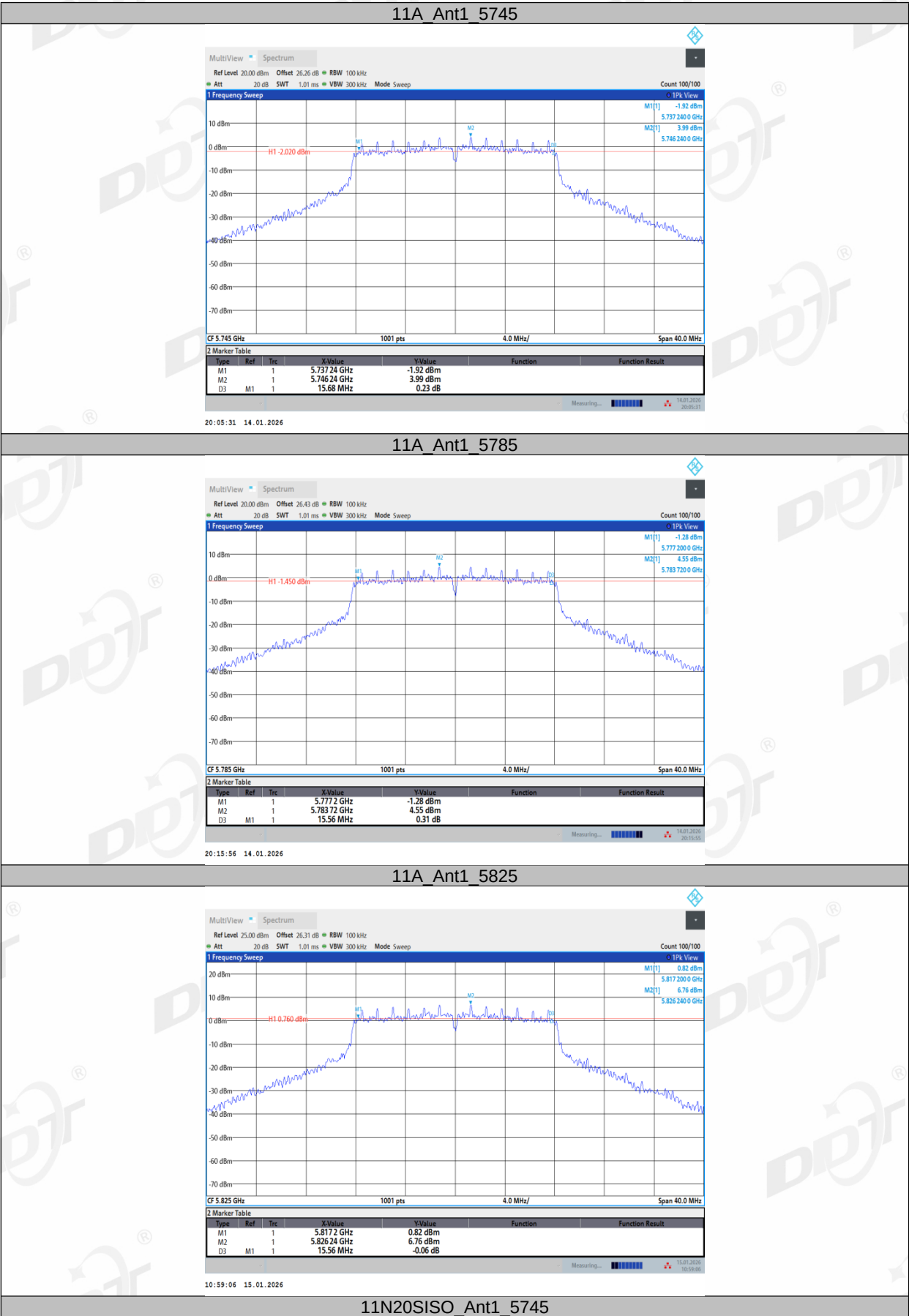
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

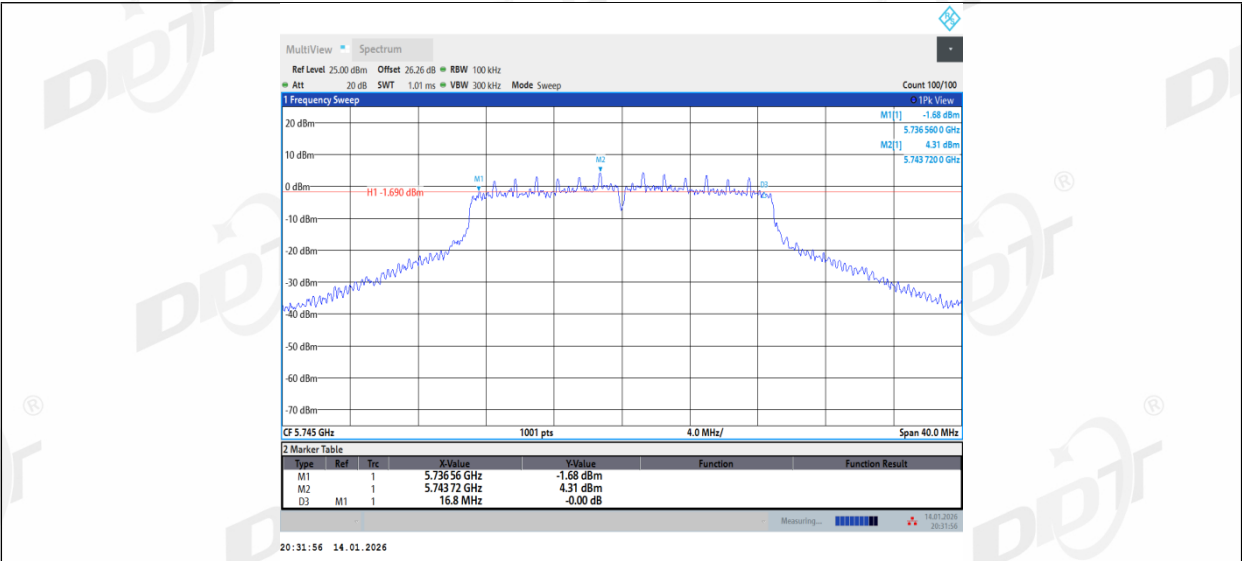
5.4. Test result B4

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

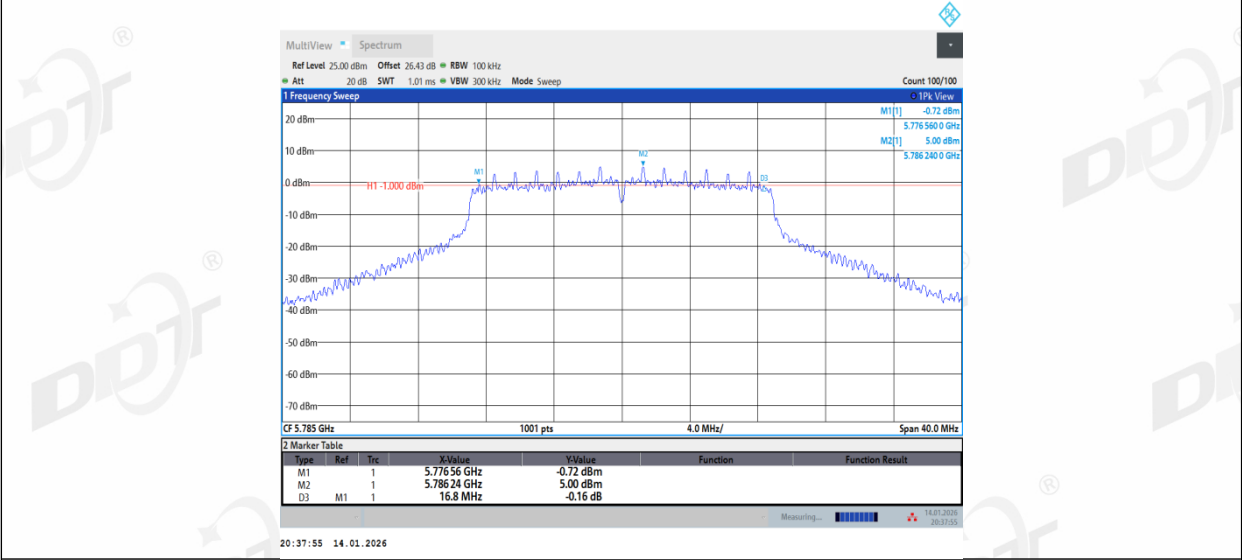
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.68	5737.24	5752.92	0.5	PASS
		5785	15.56	5777.20	5792.76	0.5	PASS
		5825	15.56	5817.20	5832.76	0.5	PASS
11N20SISO	Ant1	5745	16.80	5736.56	5753.36	0.5	PASS
		5785	16.80	5776.56	5793.36	0.5	PASS
		5825	16.00	5816.56	5832.56	0.5	PASS
11N40SISO	Ant1	5755	35.68	5737.48	5773.16	0.5	PASS
		5795	35.68	5777.48	5813.16	0.5	PASS
11AC20SISO	Ant1	5745	16.80	5736.56	5753.36	0.5	PASS
		5785	16.80	5776.56	5793.36	0.5	PASS
		5825	16.20	5816.56	5832.76	0.5	PASS
11AC40SISO	Ant1	5755	35.68	5737.48	5773.16	0.5	PASS
		5795	35.68	5777.48	5813.16	0.5	PASS
11AC80SISO	Ant1	5775	75.36	5737.40	5812.76	0.5	PASS

5.5. Test graphs B4

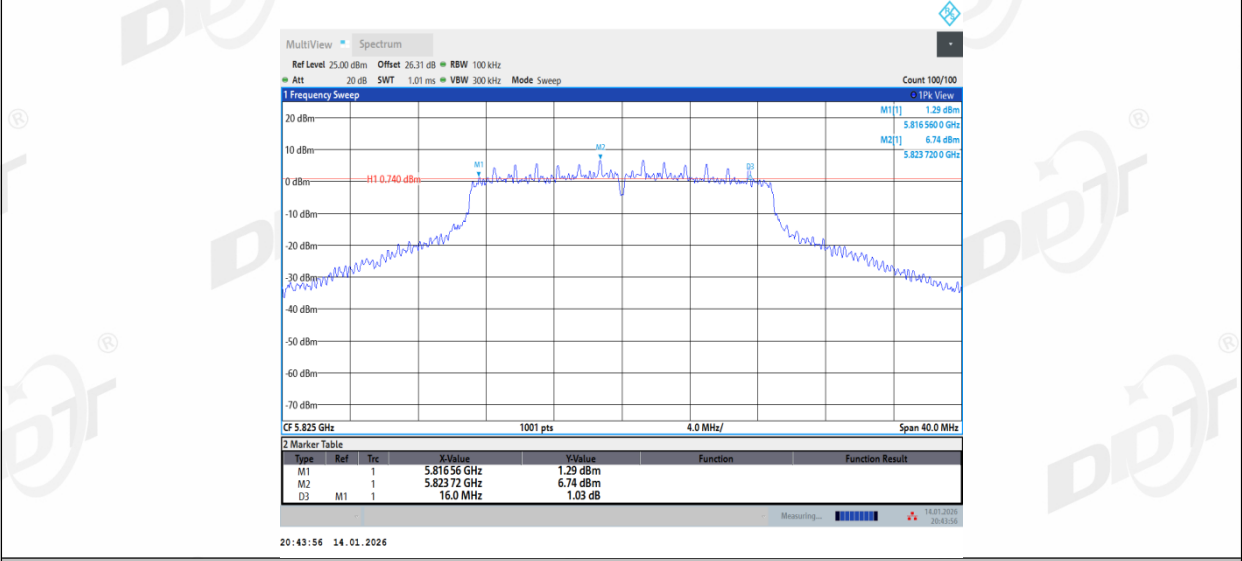




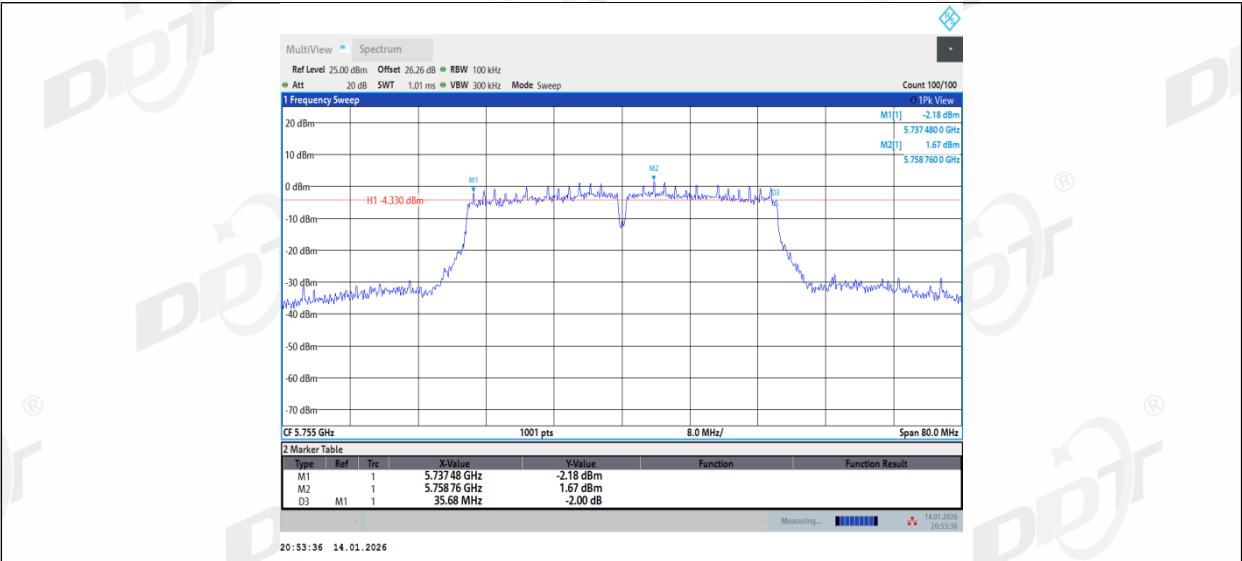
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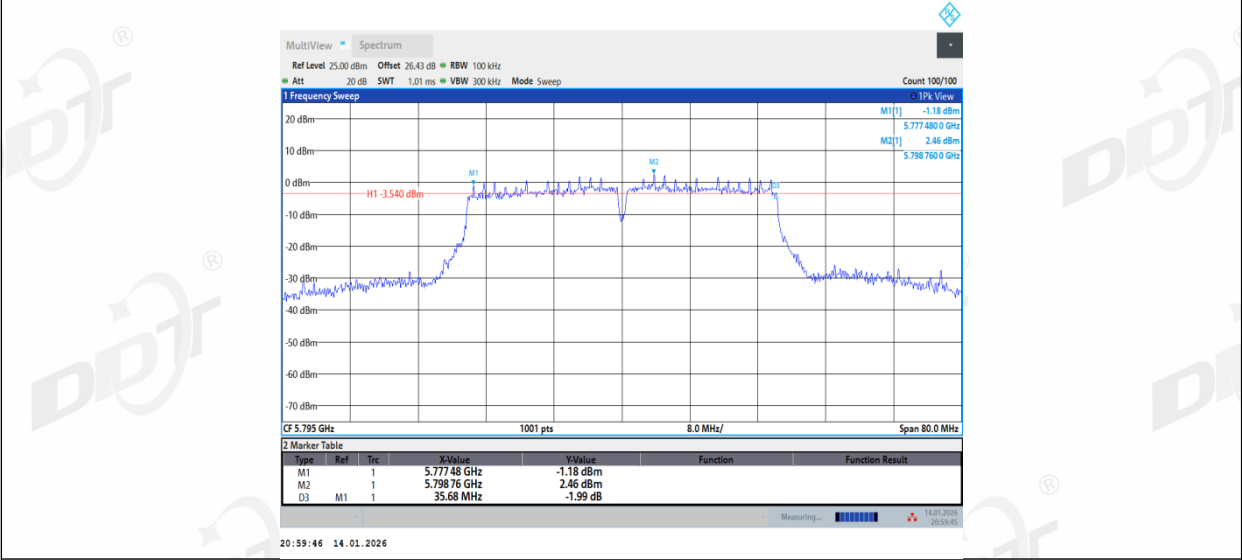
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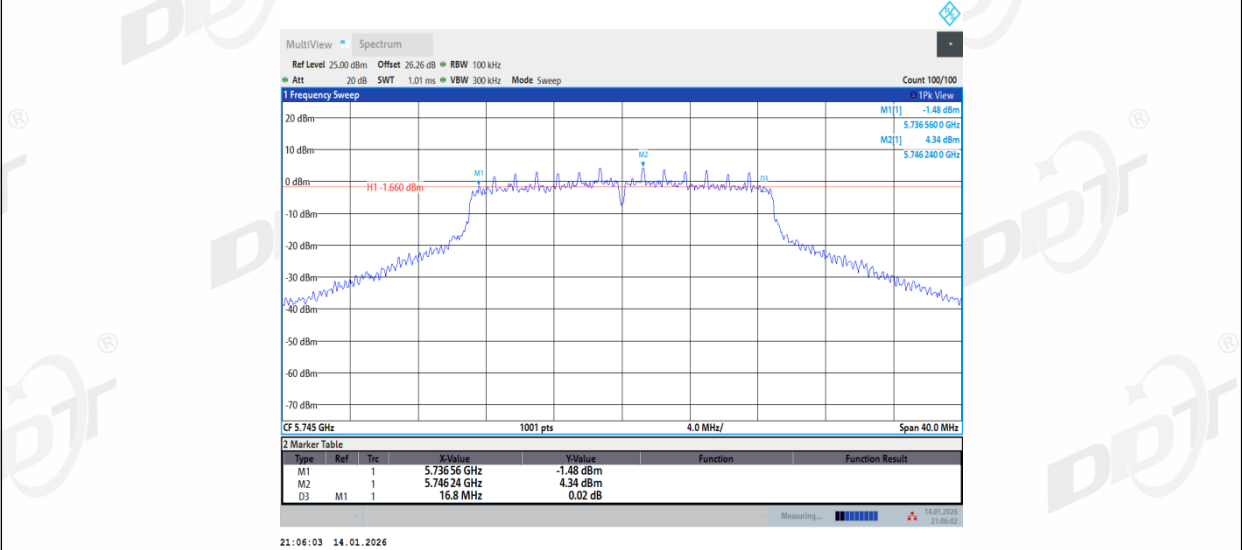
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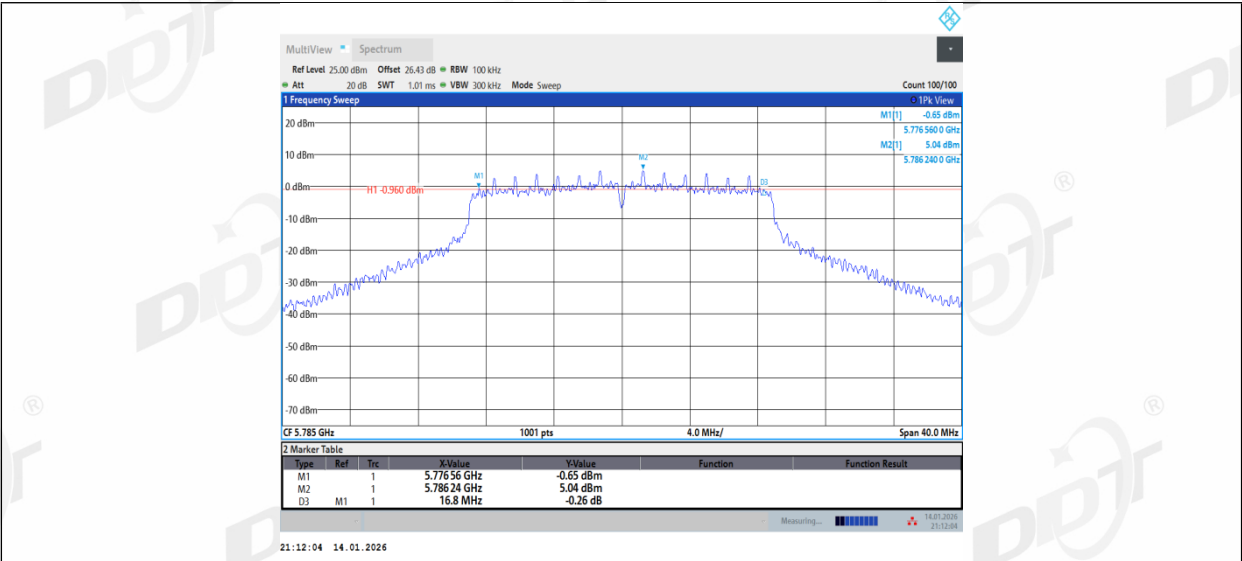
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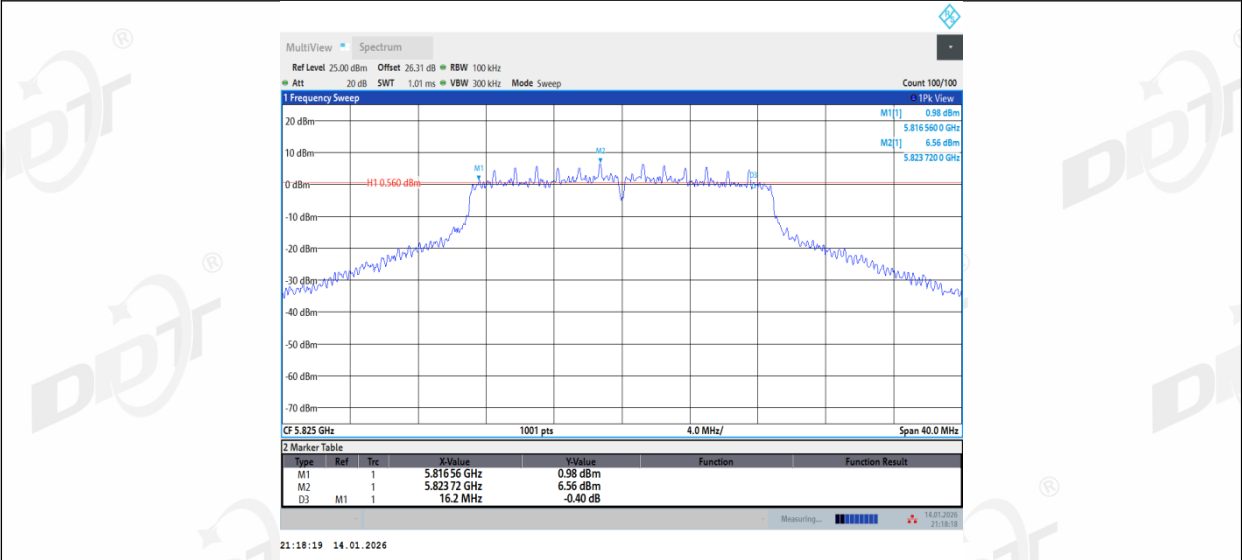
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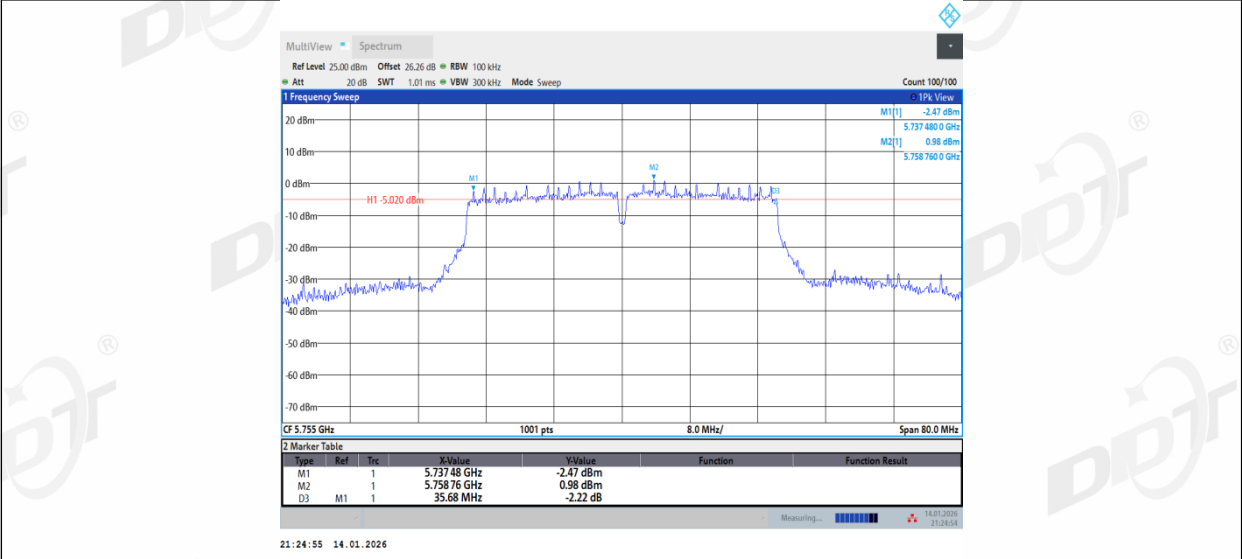
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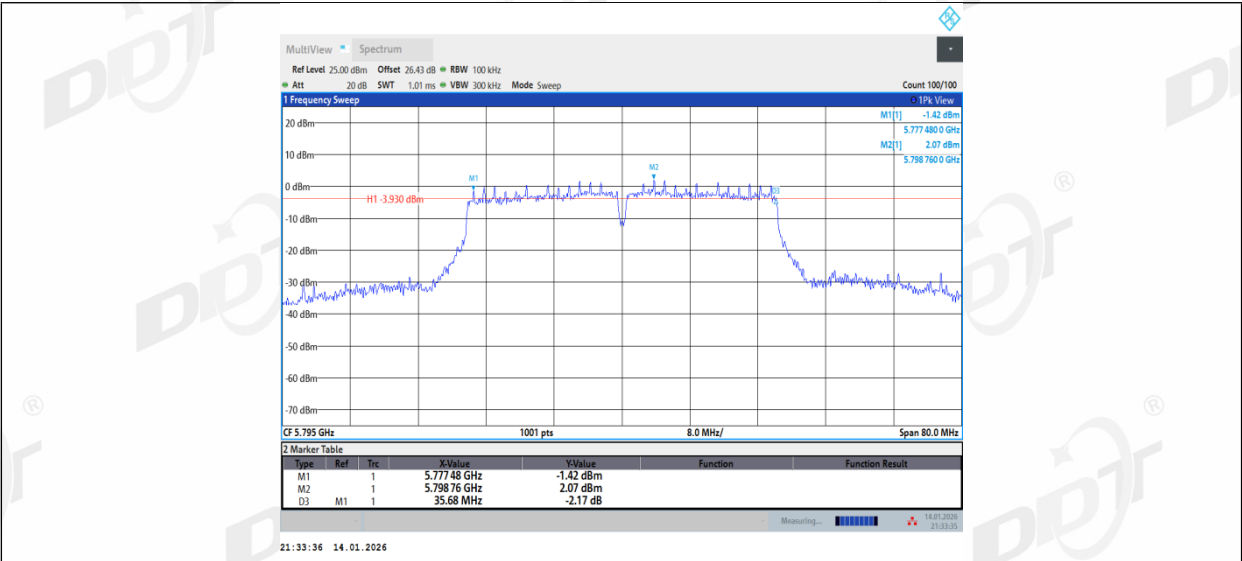
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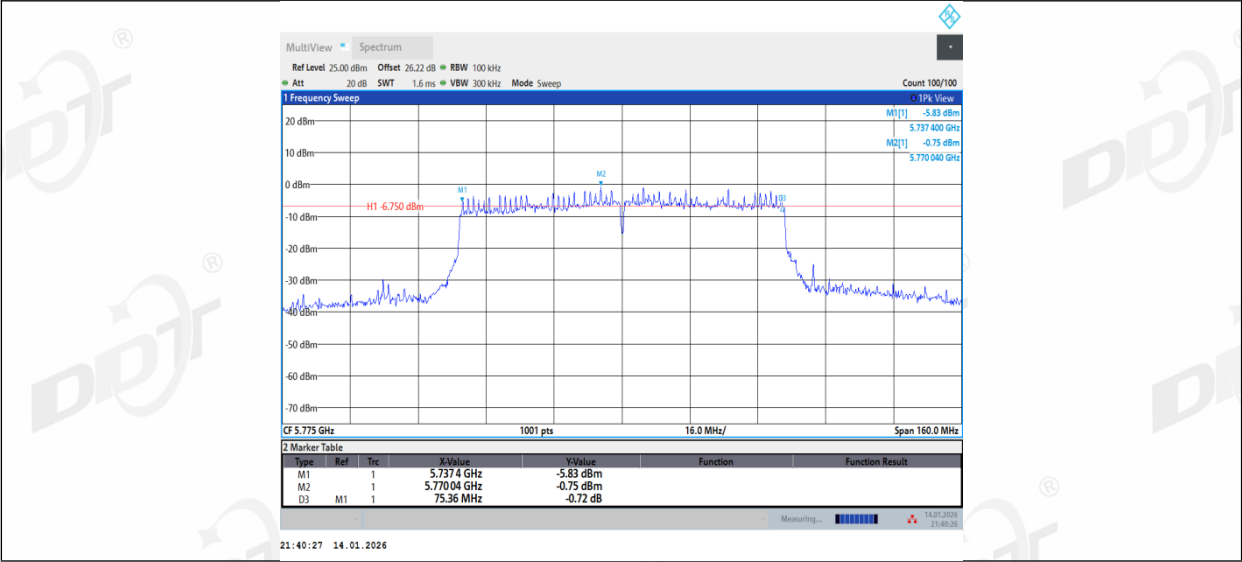
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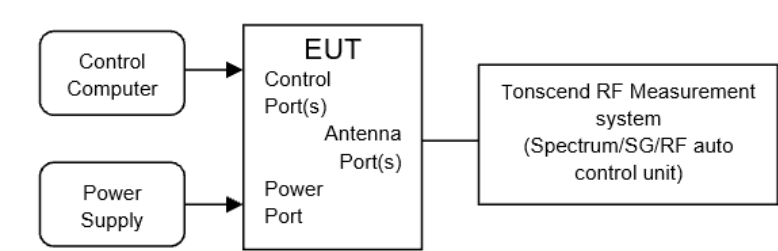


11AC80SISO_Ant1_5775



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

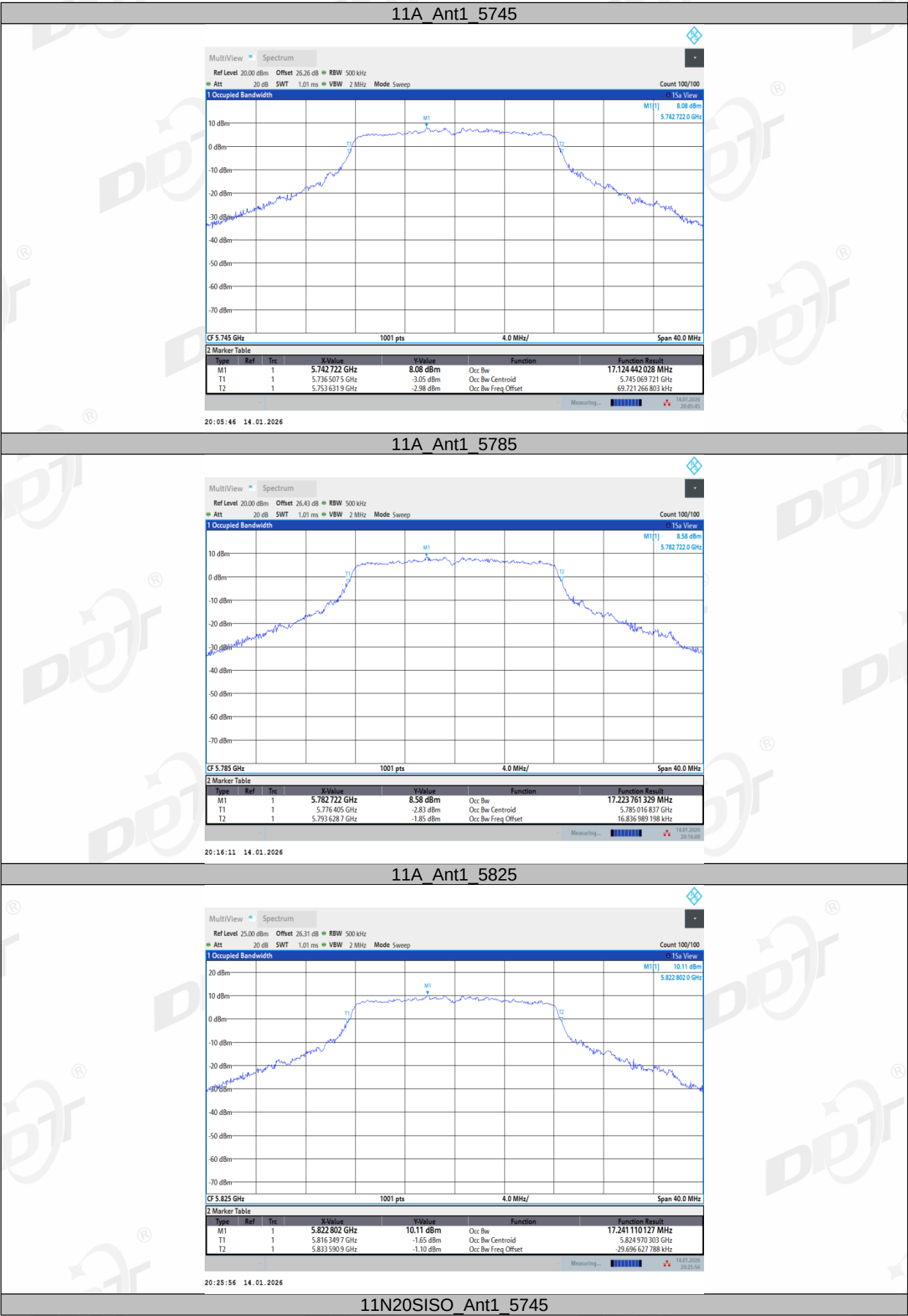
Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

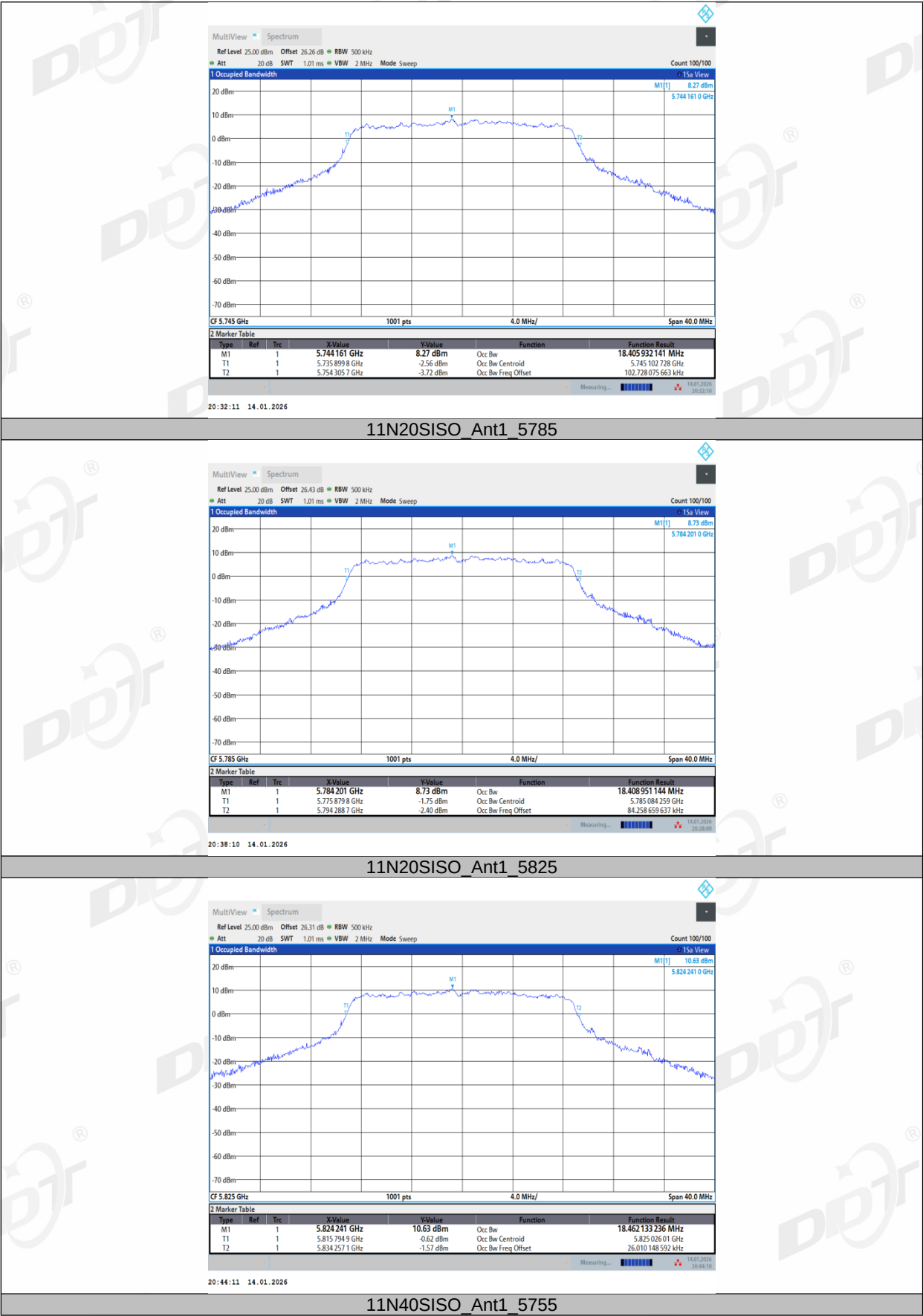
6.4. Test result

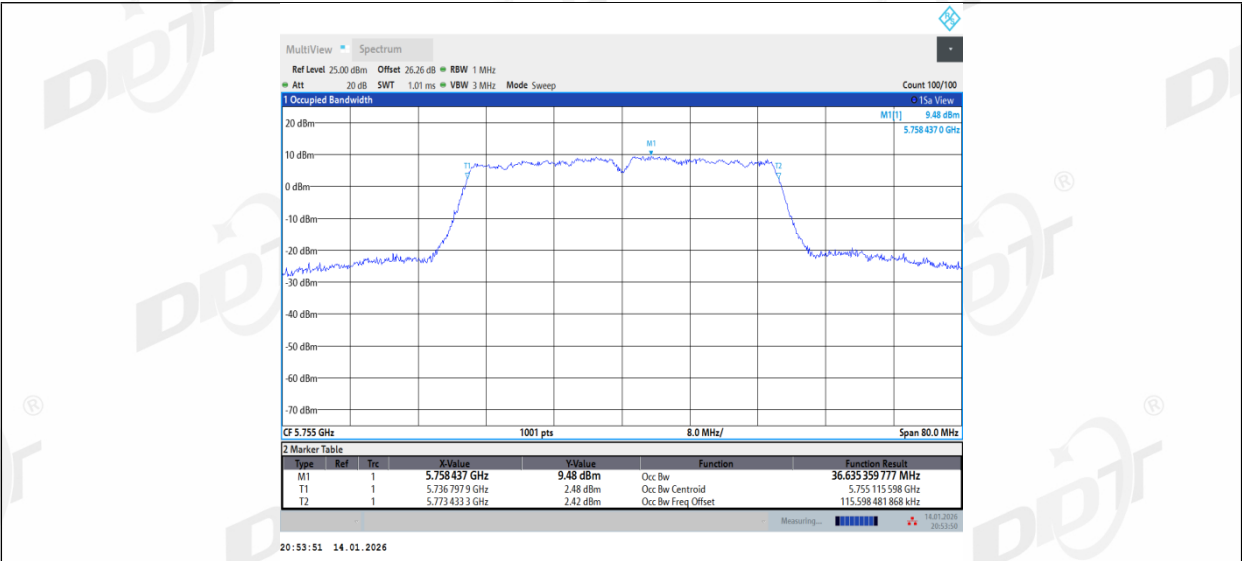
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.124	5736.5075	5753.6319	---	---
		5785	17.224	5776.4050	5793.6287	---	---
		5825	17.241	5816.3497	5833.5909	---	---
11N20SISO	Ant1	5745	18.406	5735.8998	5754.3057	---	---
		5785	18.409	5775.8798	5794.2887	---	---
		5825	18.462	5815.7949	5834.2571	---	---
11N40SISO	Ant1	5755	36.635	5736.7979	5773.4333	---	---
		5795	36.709	5776.7896	5813.4985	---	---
11AC20SISO	Ant1	5745	18.402	5735.8982	5754.3000	---	---
		5785	18.380	5775.8873	5794.2670	---	---
		5825	18.473	5815.7908	5834.2633	---	---
11AC40SISO	Ant1	5755	36.590	5736.7813	5773.3708	---	---
		5795	36.619	5776.7889	5813.4078	---	---
11AC80SISO	Ant1	5775	75.926	5737.2525	5813.1790	---	---

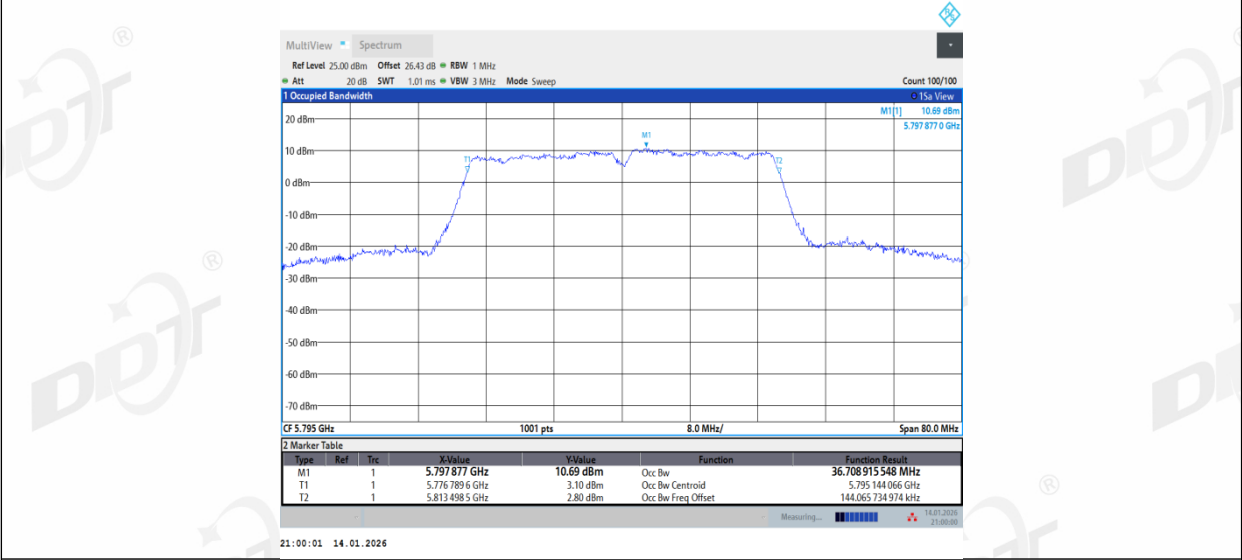
6.5. Test graphs



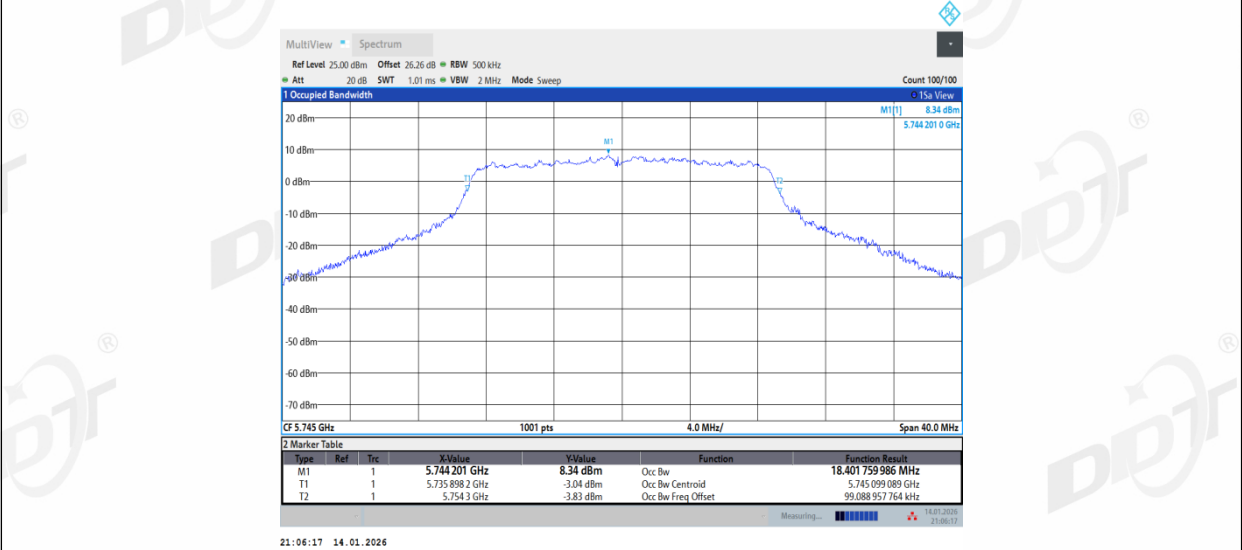




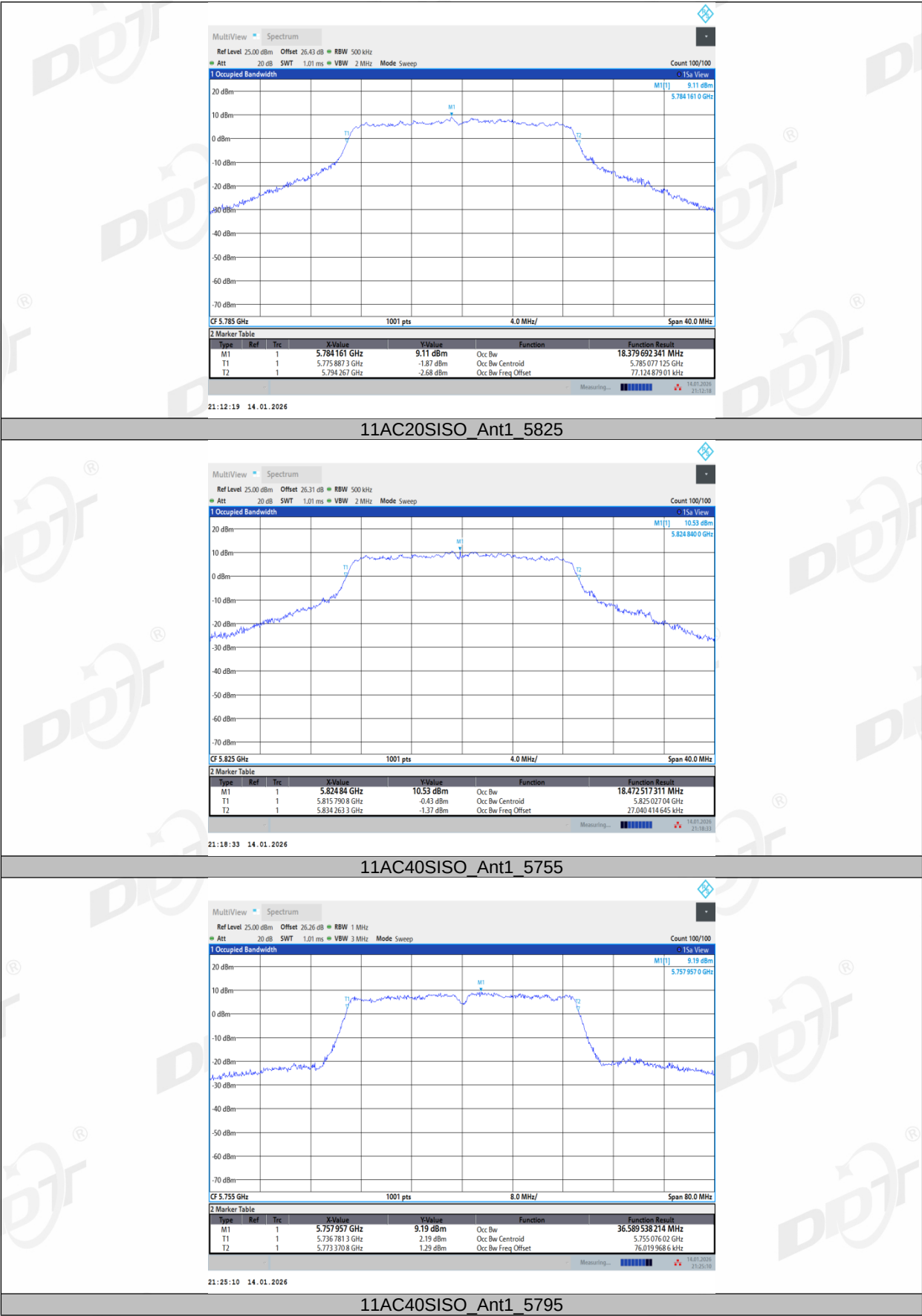
11N40SISO_Ant1_5795

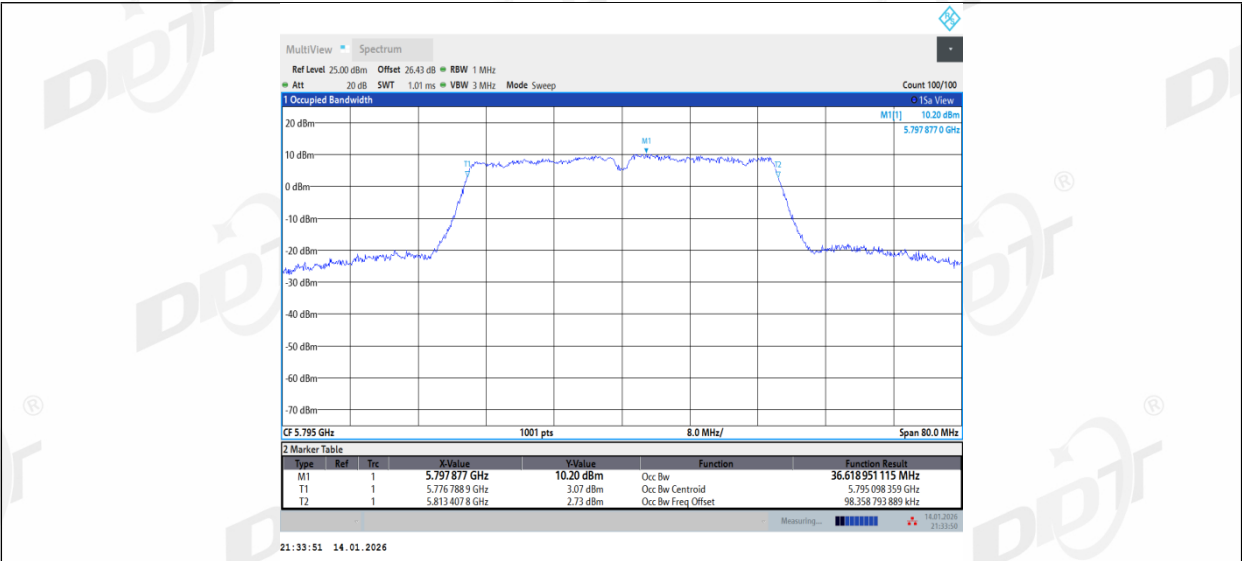


11AC20SISO_Ant1_5745

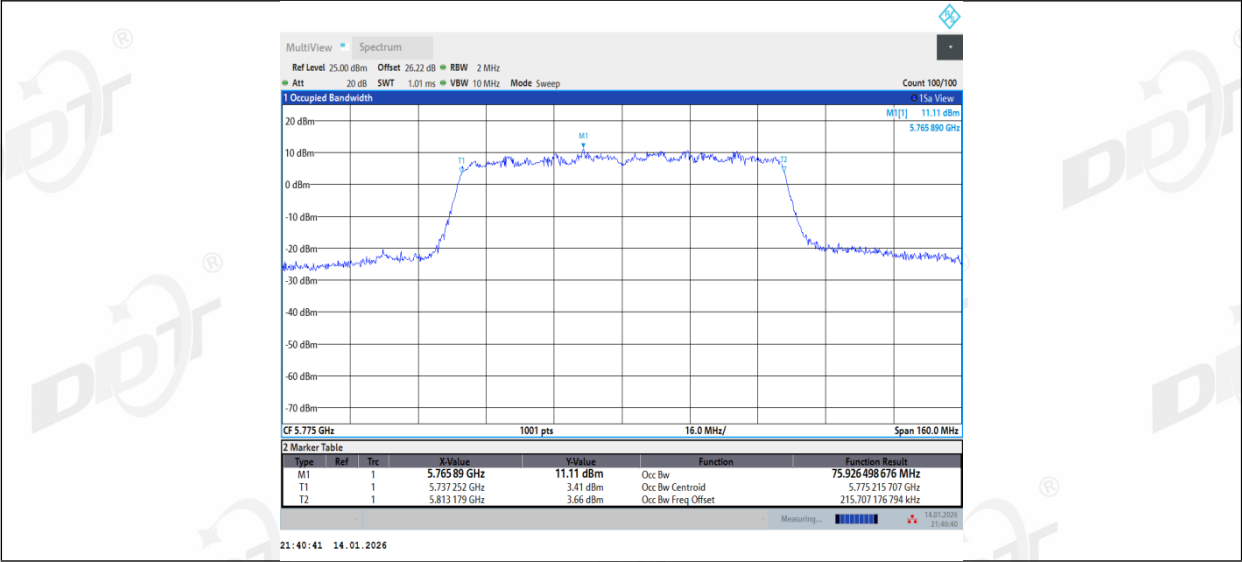


11AC20SISO_Ant1_5785



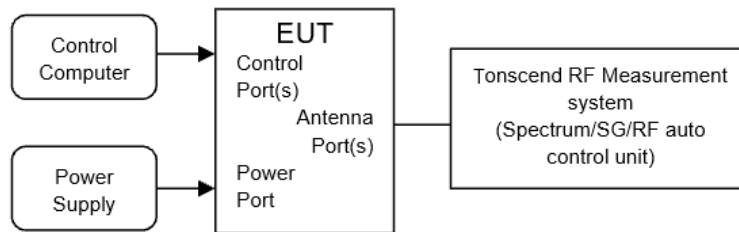


11AC80SISO_Ant1_5775



7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

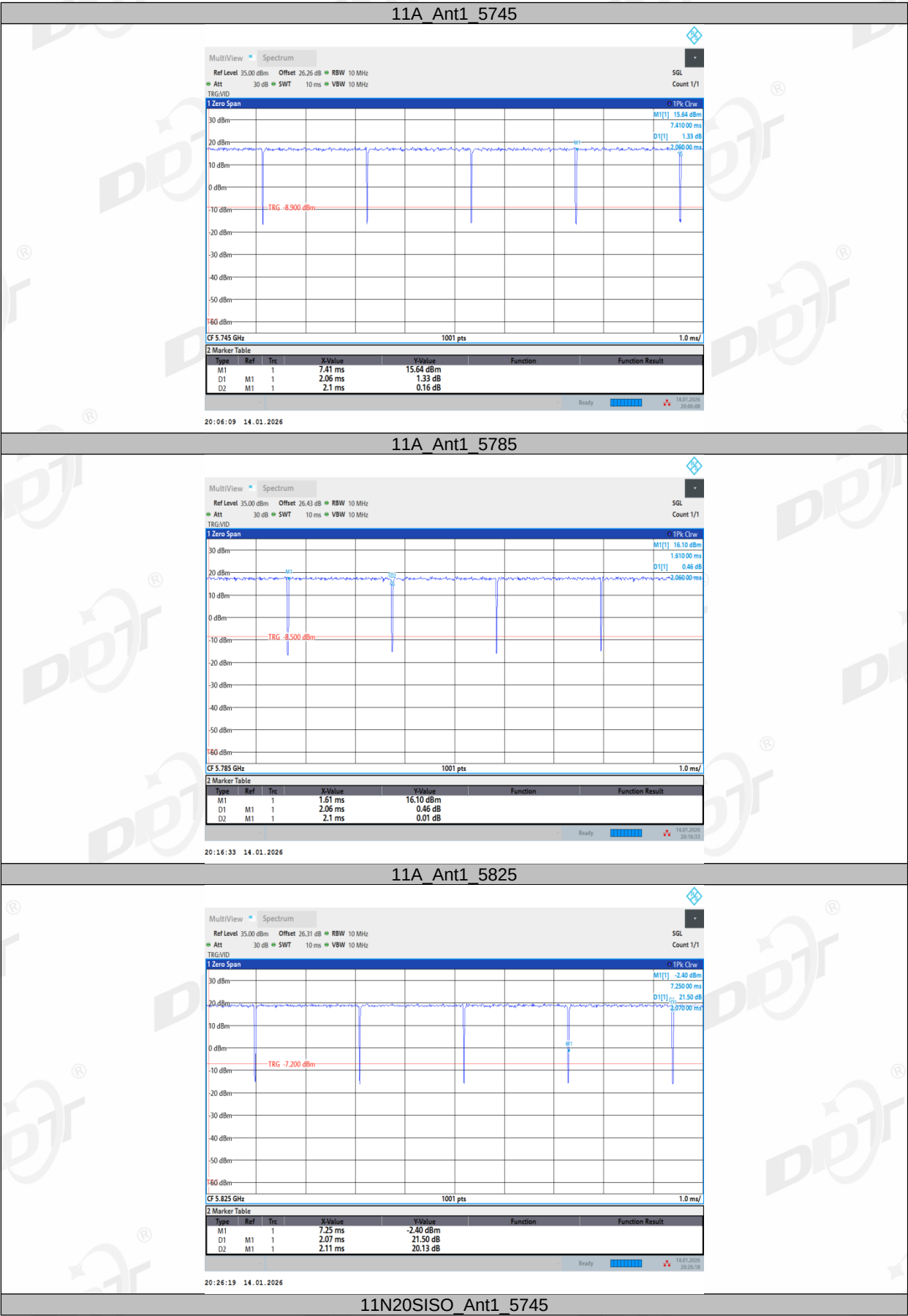
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 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:
$$\text{Duty cycle} = \text{Pulse's on time} / \text{Burst cycle}$$

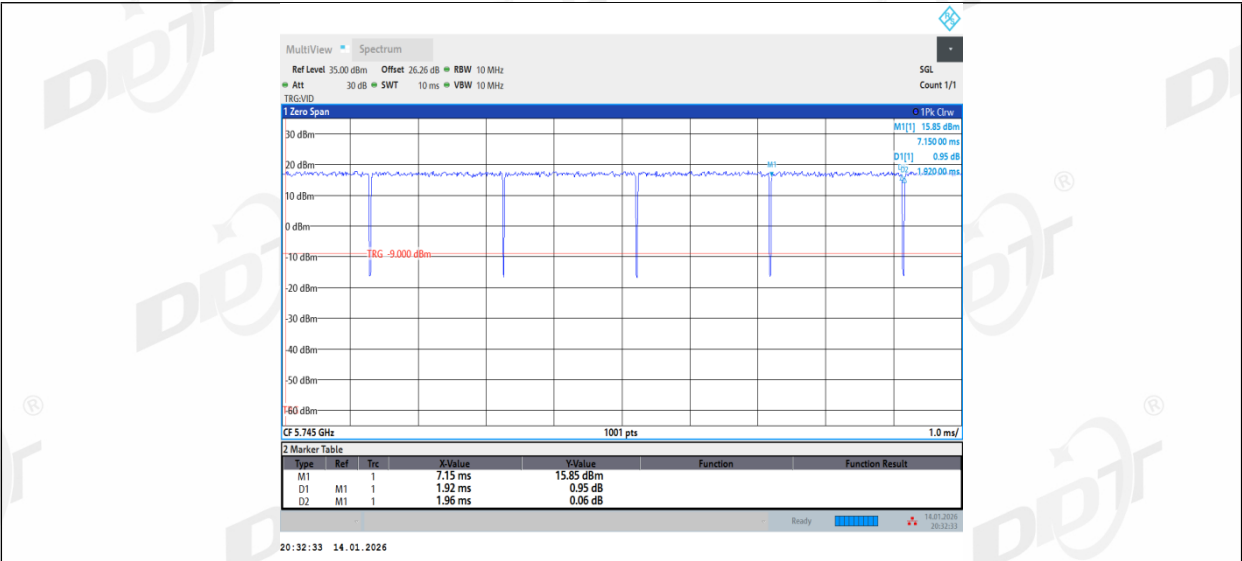
7.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

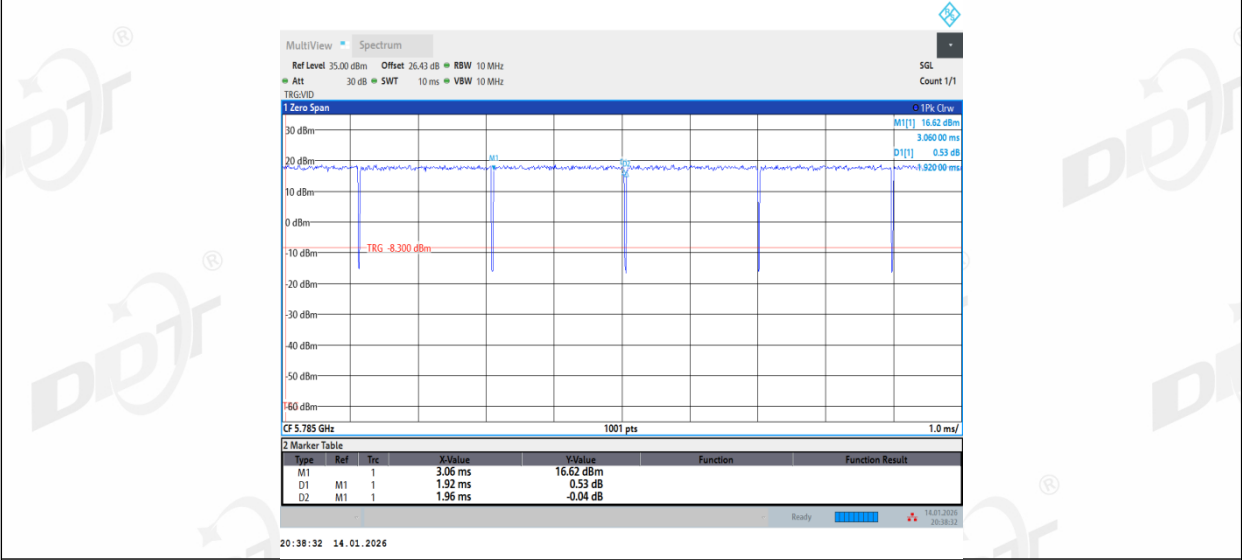
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.06	2.10	98.10
		5785	2.06	2.10	98.10
		5825	2.07	2.11	98.10
11N20SISO	Ant1	5745	1.92	1.96	97.96
		5785	1.92	1.96	97.96
		5825	1.92	1.96	97.96
11N40SISO	Ant1	5755	0.94	0.98	95.92
		5795	0.94	0.98	95.92
11AC20SISO	Ant1	5745	1.93	1.97	97.97
		5785	1.94	1.97	98.48
		5825	1.93	1.97	97.97
11AC40SISO	Ant1	5755	0.95	0.99	95.96
		5795	0.95	0.99	95.96
11AC80SISO	Ant1	5775	0.46	0.50	92.00

7.5. Test graphs

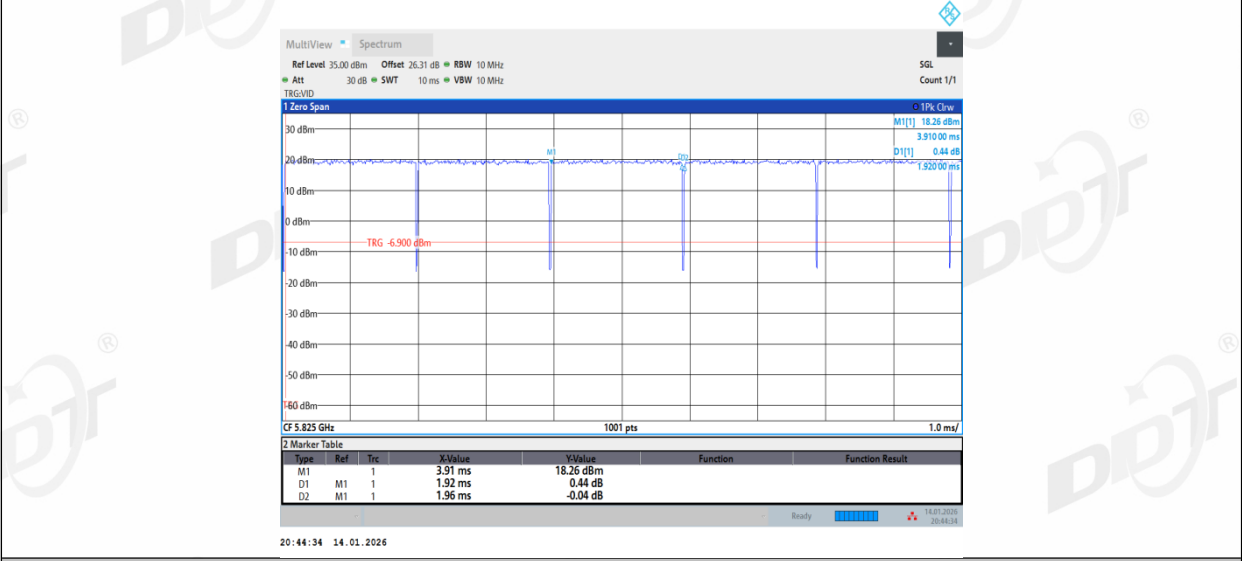




11N20SISO_Ant1_5785



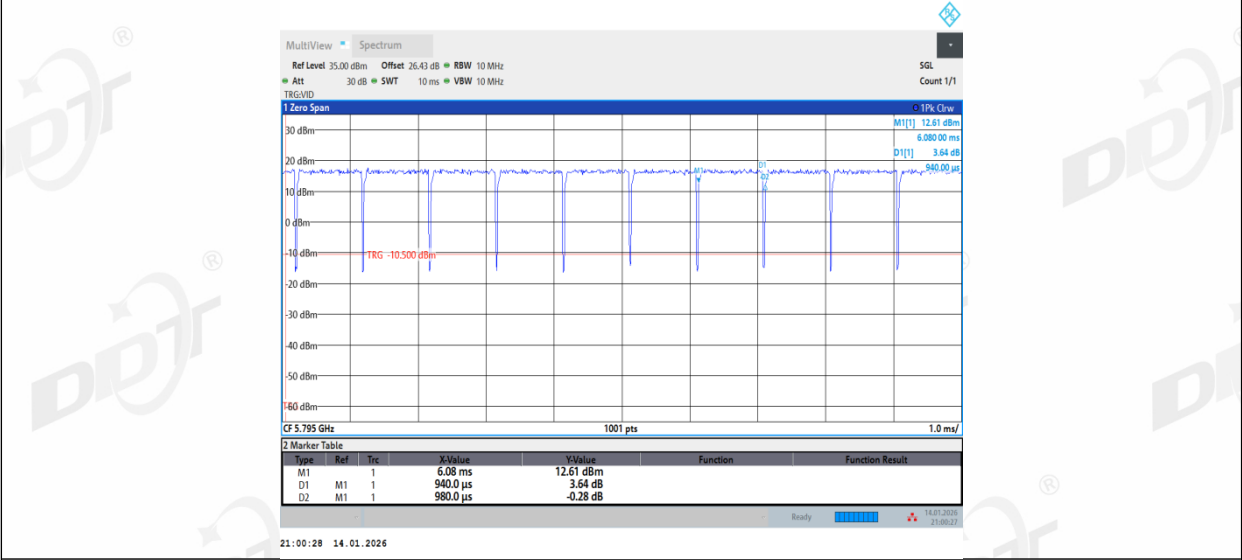
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



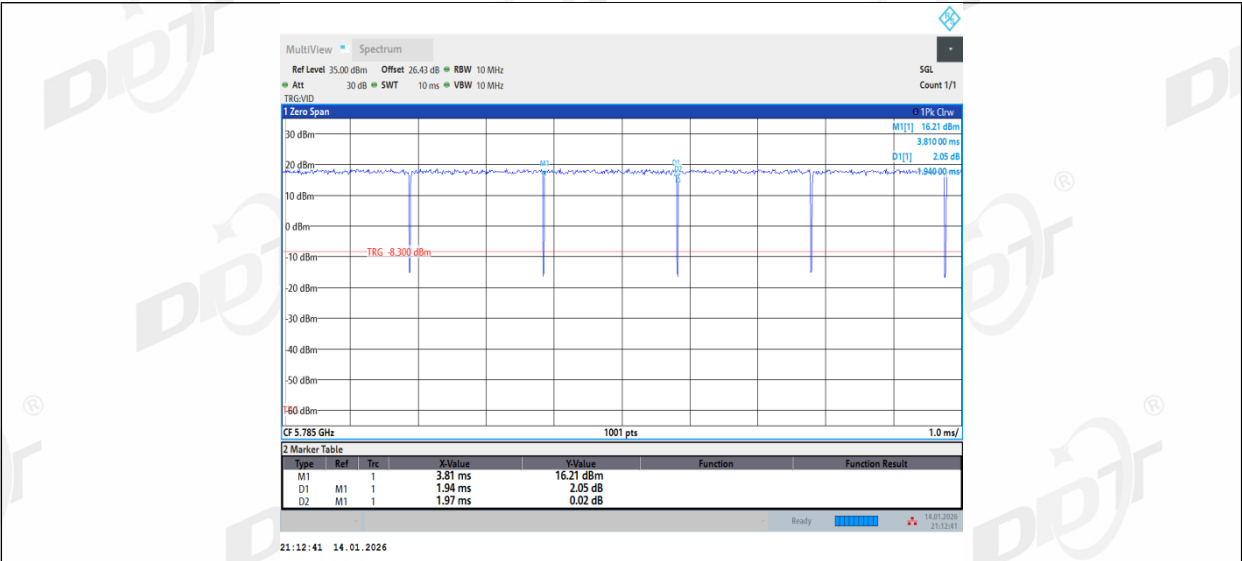
11N40SISO_Ant1_5795



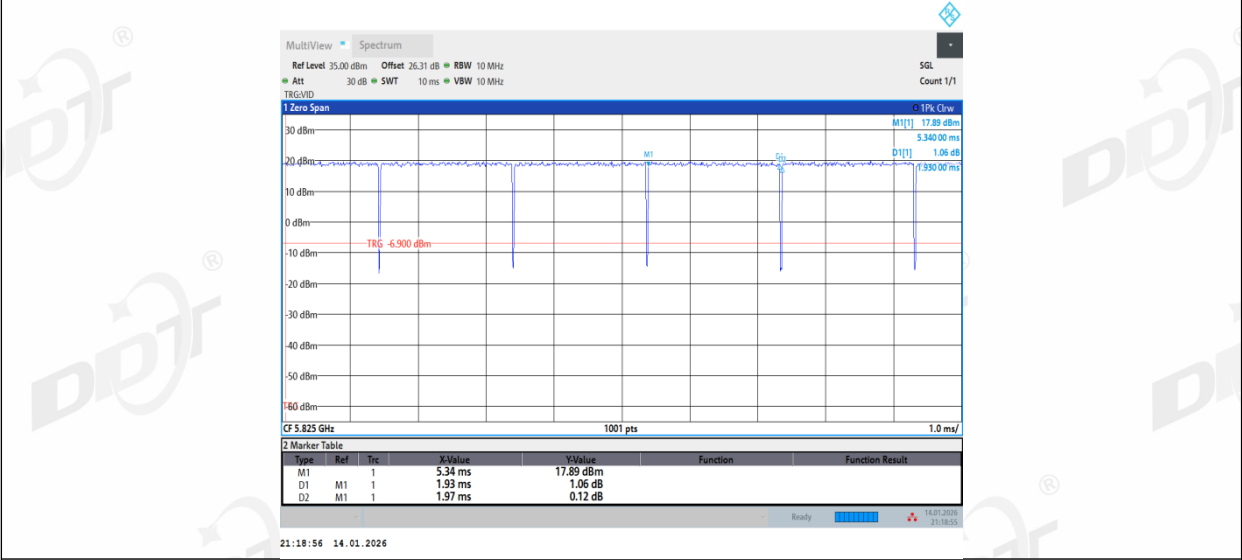
11AC20SISO_Ant1_5745



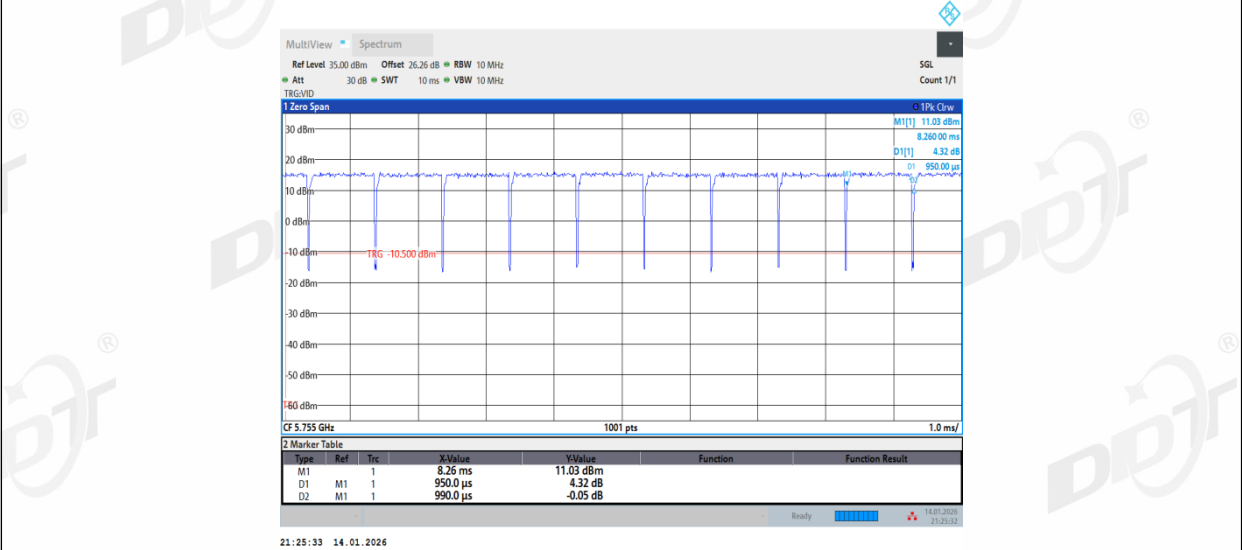
11AC20SISO_Ant1_5785



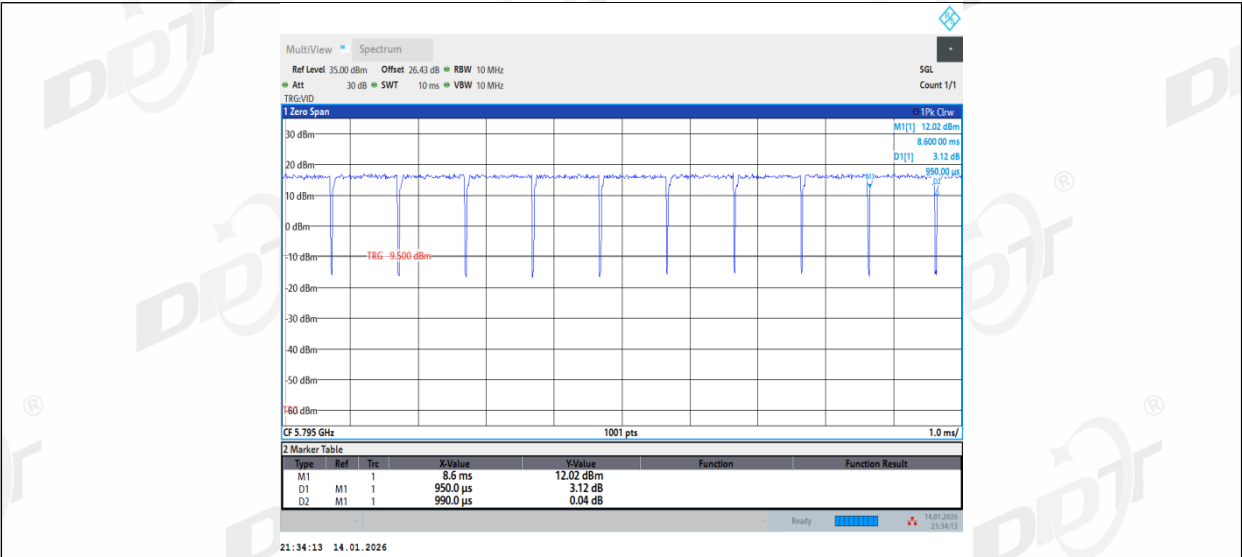
11AC20SISO_Ant1_5825



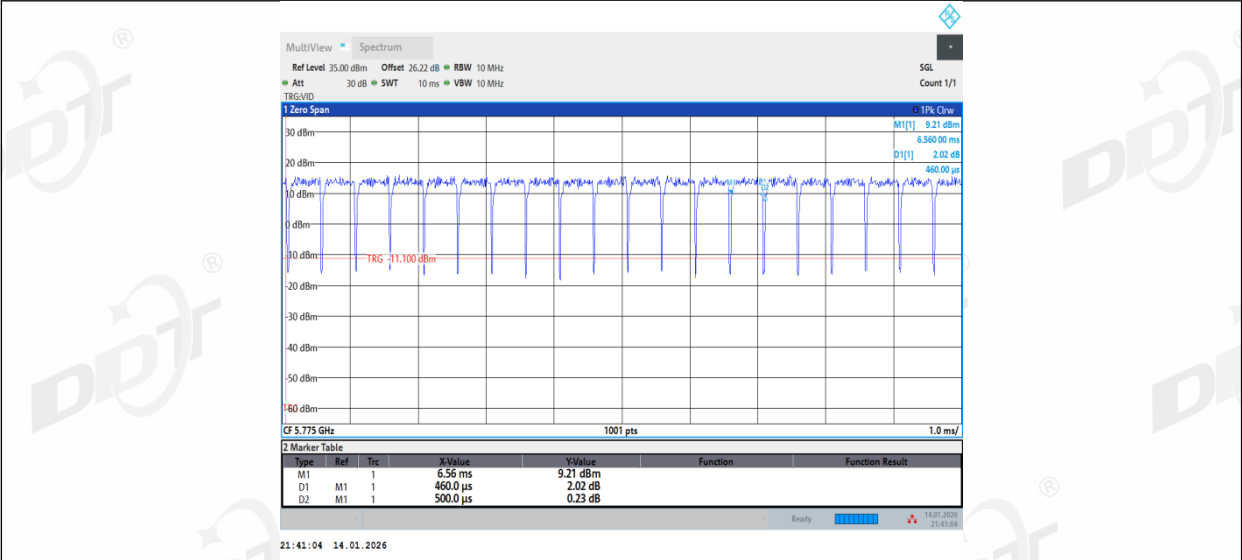
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

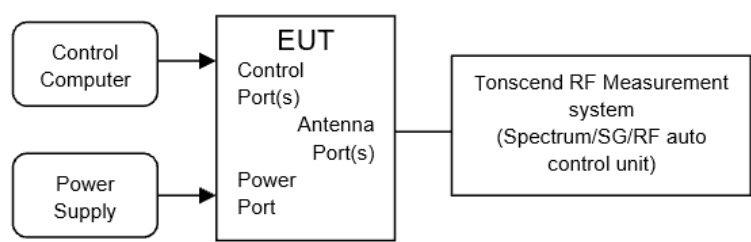


11AC80SISO_Ant1_5775



8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	1 Watt (30 dBm)	5725-5850
Note 1: B=26 bandwidth		
Note 2: 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.

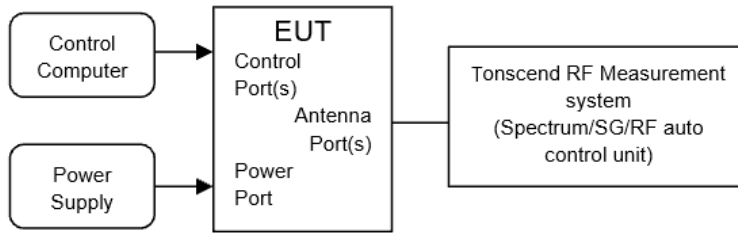
8.4. Test result channel power

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	Verdict
11A	Ant1	5745	98.10	0.08	14.98	≤30.00	PASS
		5785	98.10	0.08	15.88	≤30.00	PASS
		5825	98.10	0.08	17.12	≤30.00	PASS
11N20SISO	Ant1	5745	97.96	0.09	15.08	≤30.00	PASS
		5785	97.96	0.09	16.10	≤30.00	PASS
		5825	97.96	0.09	17.56	≤30.00	PASS
11N40SISO	Ant1	5755	95.92	0.18	16.12	≤30.00	PASS
		5795	95.92	0.18	17.42	≤30.00	PASS
11AC20SISO	Ant1	5745	97.97	0.09	15.12	≤30.00	PASS
		5785	98.48	0.07	16.09	≤30.00	PASS
		5825	97.97	0.09	17.56	≤30.00	PASS
11AC40SISO	Ant1	5755	95.96	0.18	16.26	≤30.00	PASS
		5795	95.96	0.18	17.45	≤30.00	PASS
11AC80SISO	Ant1	5775	92.00	0.36	16.61	≤30.00	PASS

9. Power Spectral Density

9.1. Block diagram of test setup



9.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	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.		

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:

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

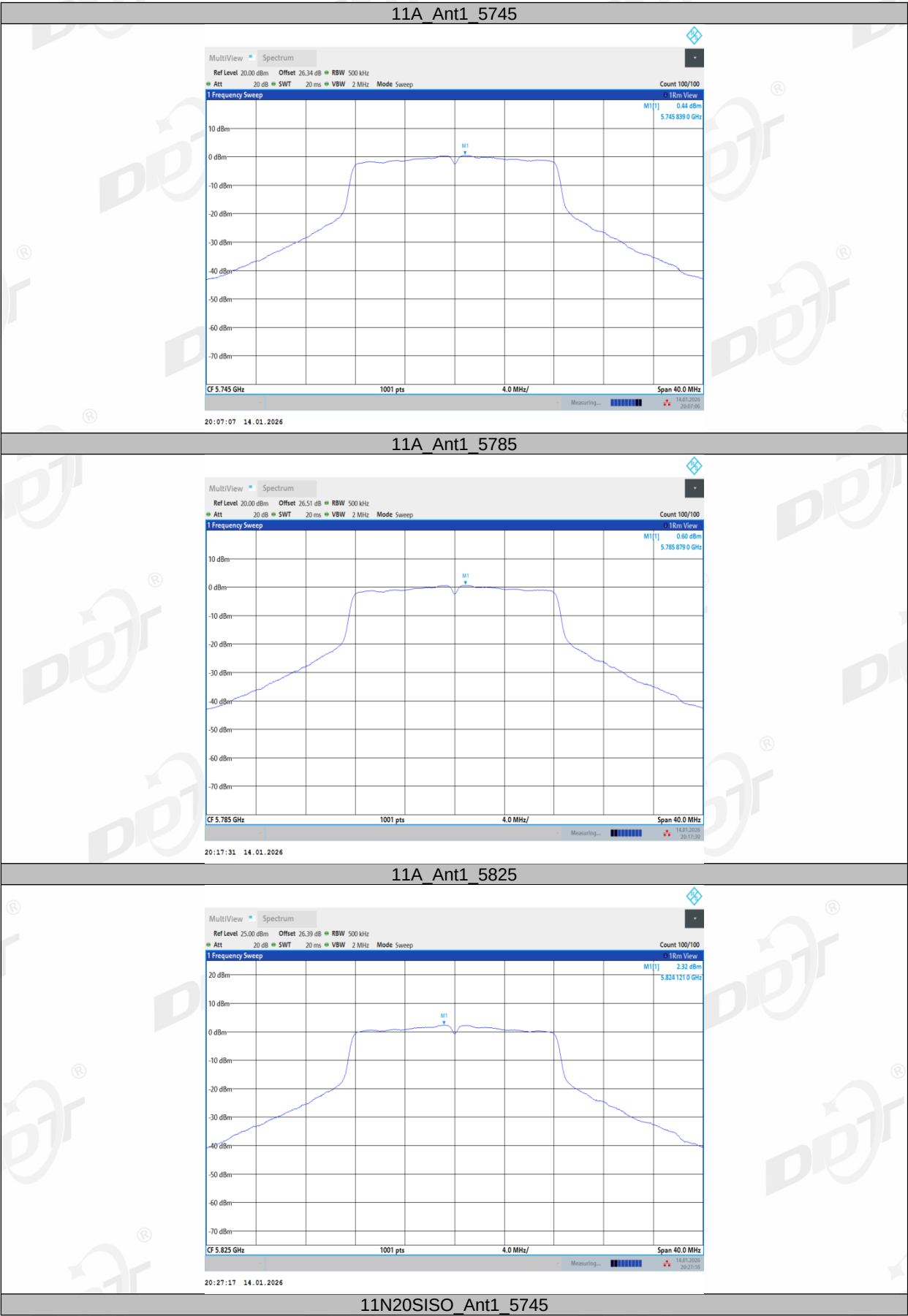
9.4. Test result

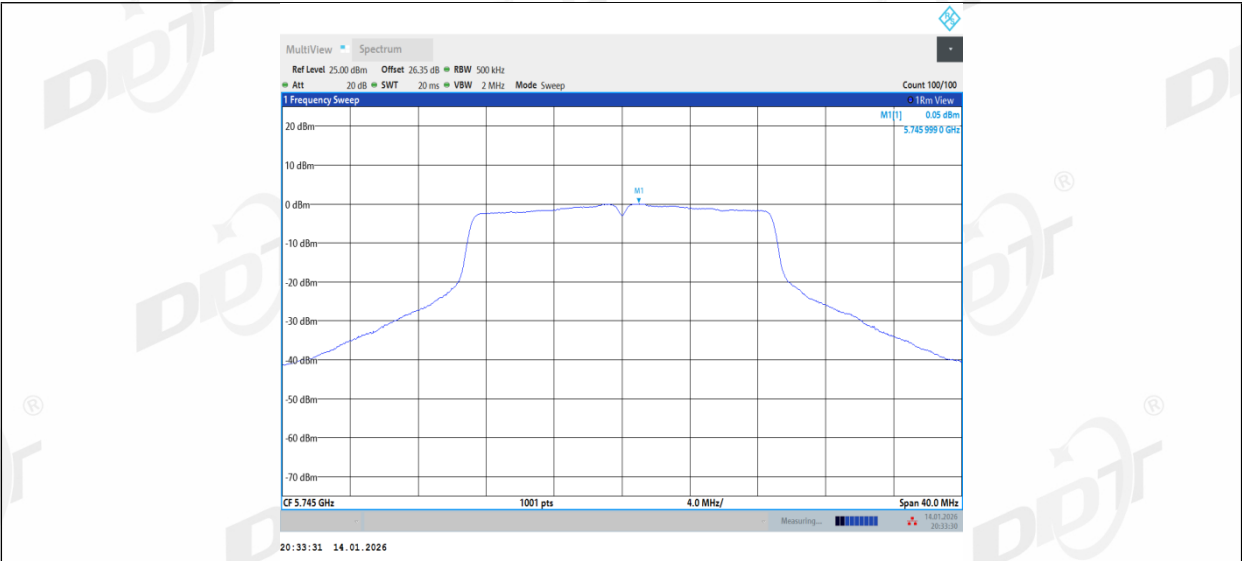
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

Test Mode	Antenna	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	0.44	≤30.00	PASS
		5785	0.60	≤30.00	PASS
		5825	2.32	≤30.00	PASS
11N20SISO	Ant1	5745	0.05	≤30.00	PASS
		5785	0.77	≤30.00	PASS
		5825	2.38	≤30.00	PASS
11N40SISO	Ant1	5755	-2.26	≤30.00	PASS
		5795	-1.27	≤30.00	PASS
11AC20SISO	Ant1	5745	0.09	≤30.00	PASS
		5785	0.73	≤30.00	PASS
		5825	1.97	≤30.00	PASS
11AC40SISO	Ant1	5755	-2.73	≤30.00	PASS
		5795	-1.72	≤30.00	PASS
11AC80SISO	Ant1	5775	-5.29	≤30.00	PASS

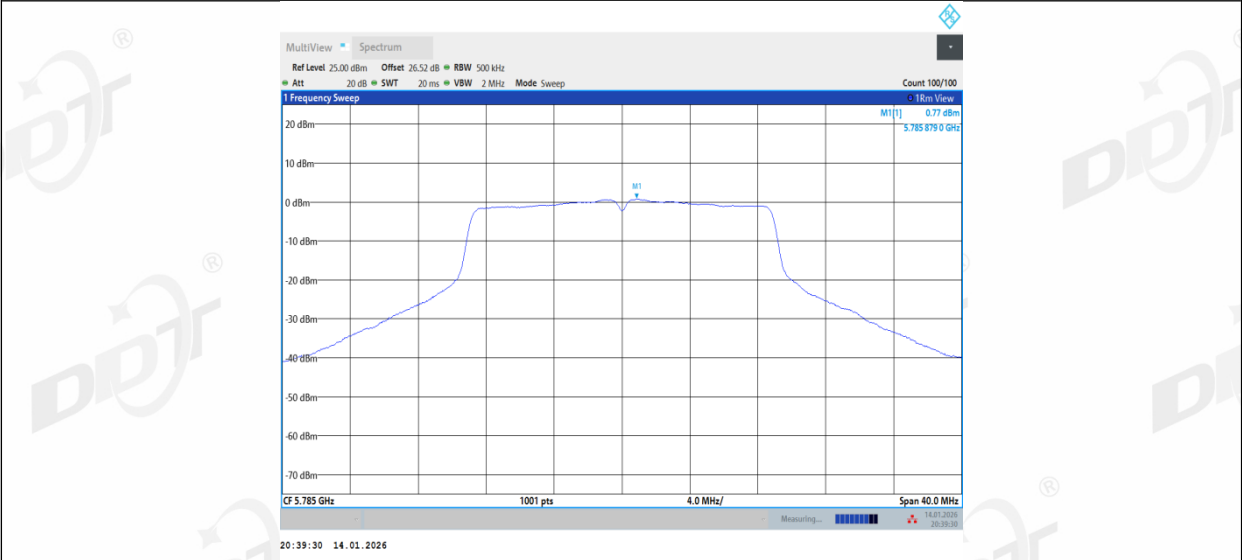
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

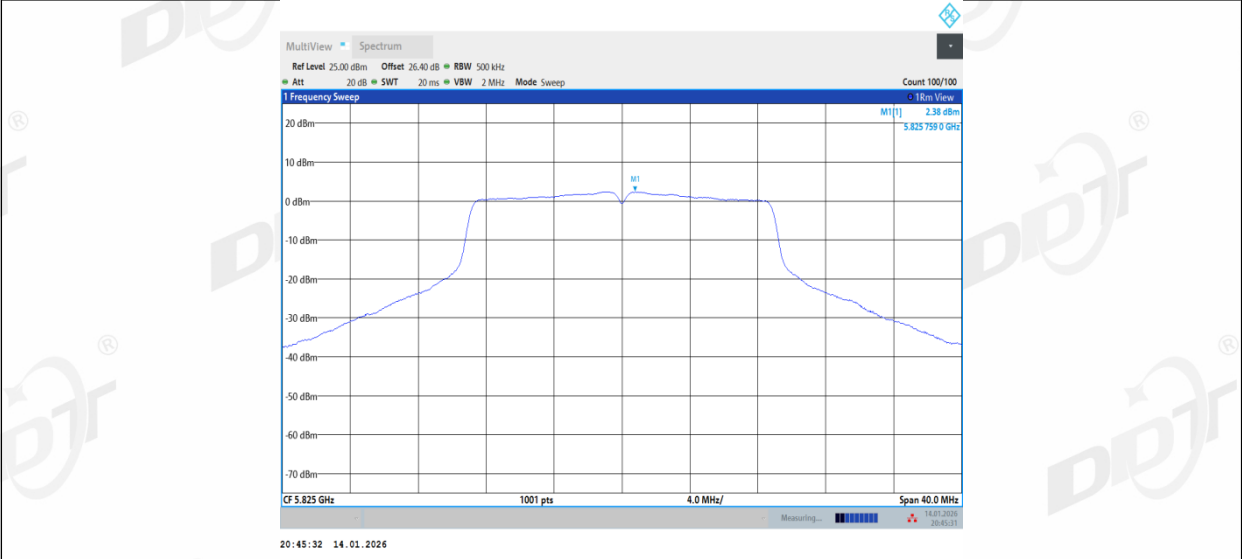




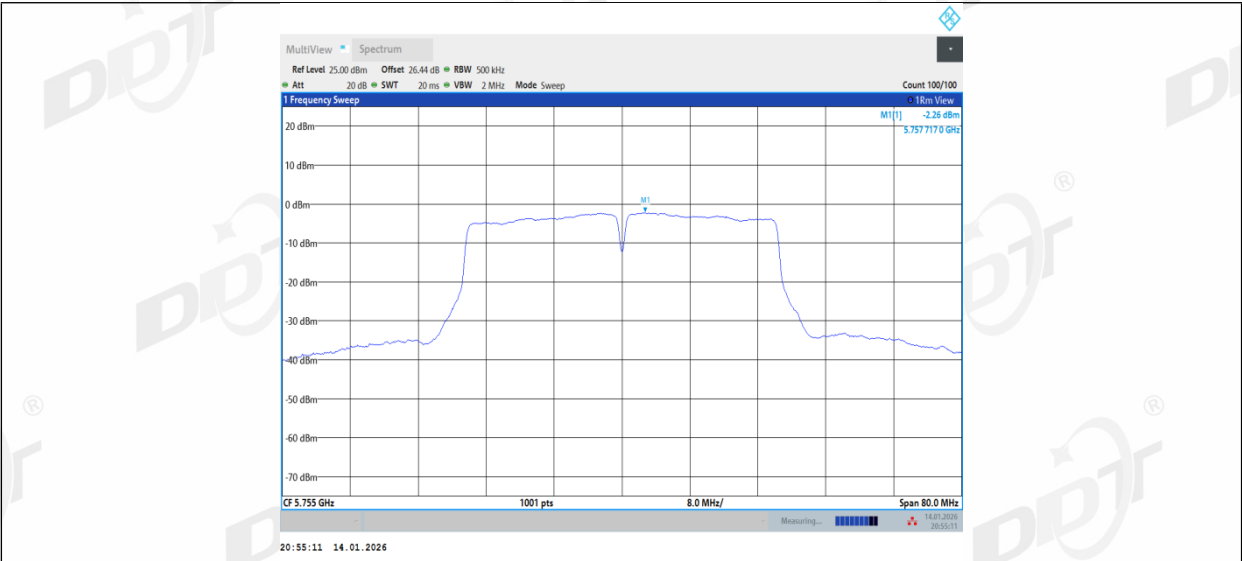
11N20SISO_Ant1_5785



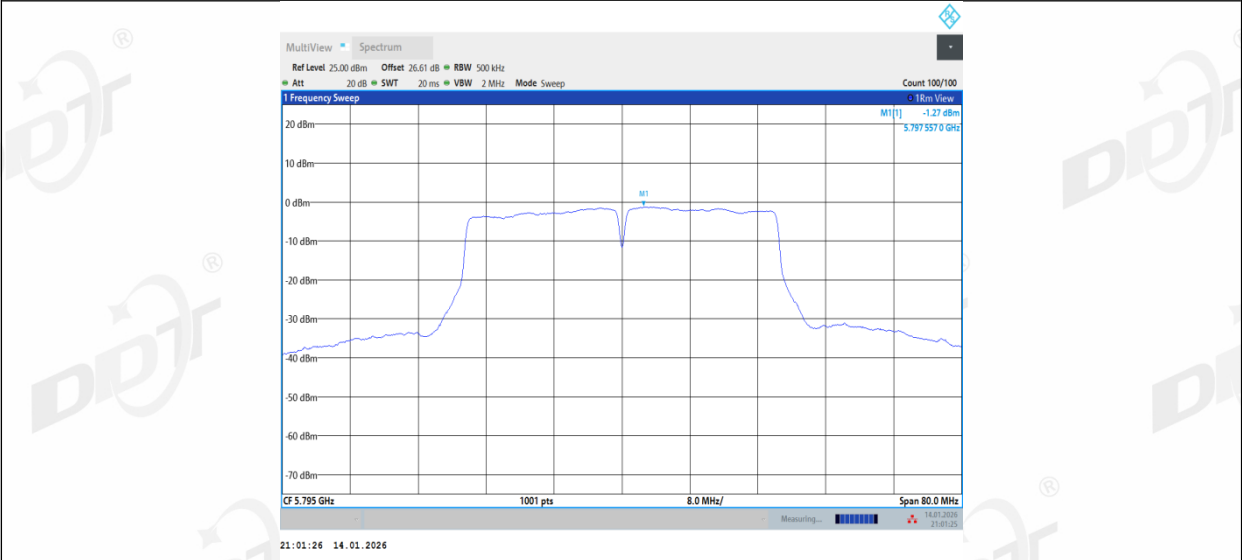
11N20SISO_Ant1_5825



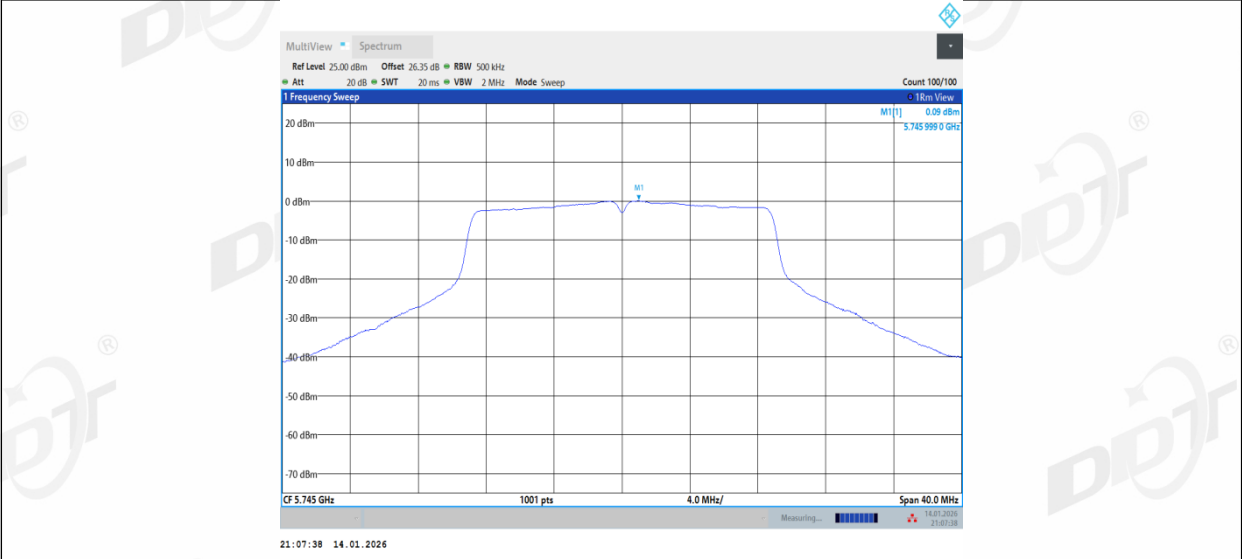
11N40SISO_Ant1_5755



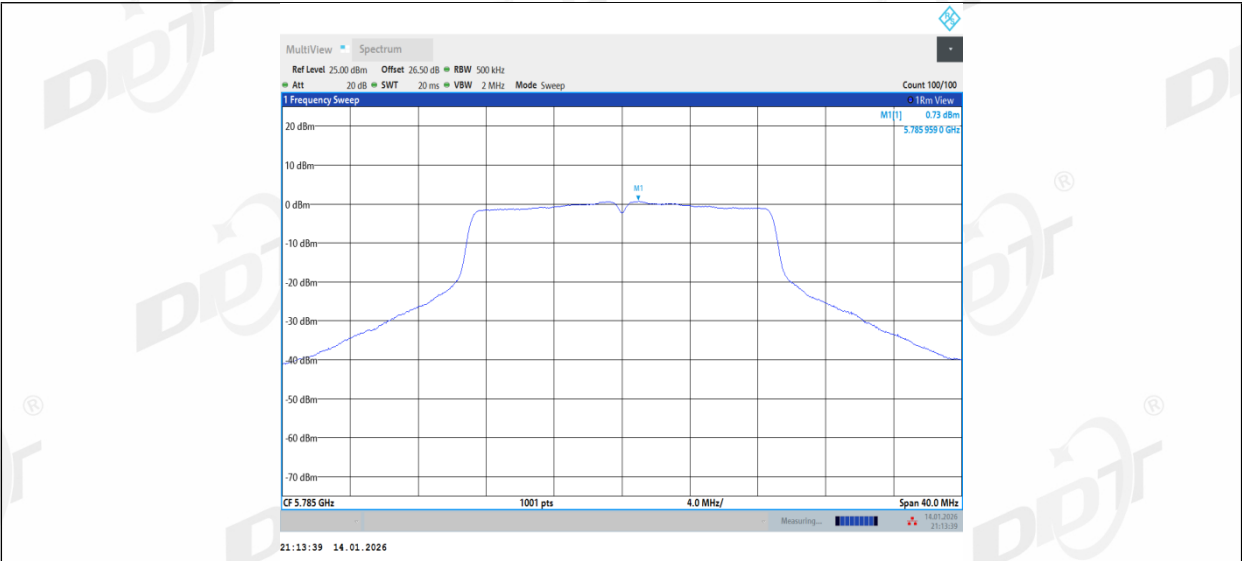
11N40SISO_Ant1_5795



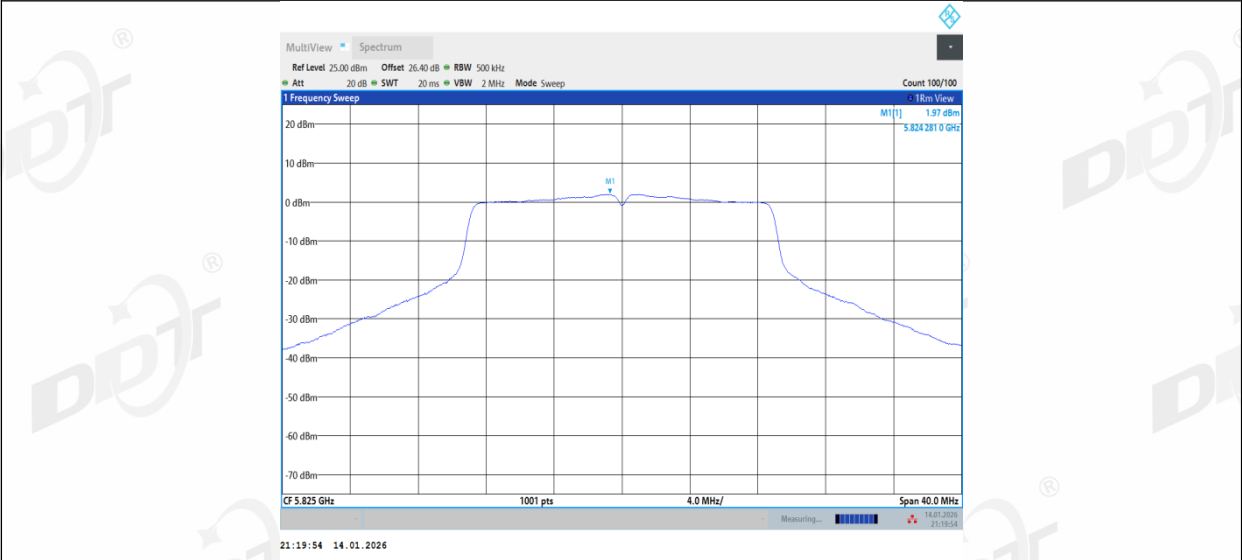
11AC20SISO_Ant1_5745



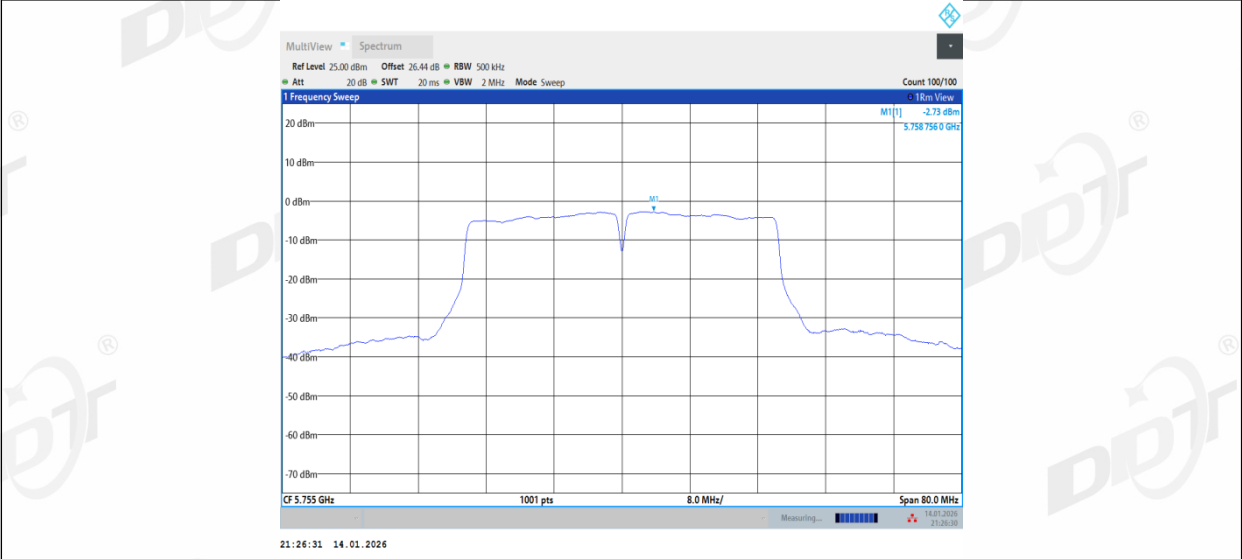
11AC20SISO_Ant1_5785



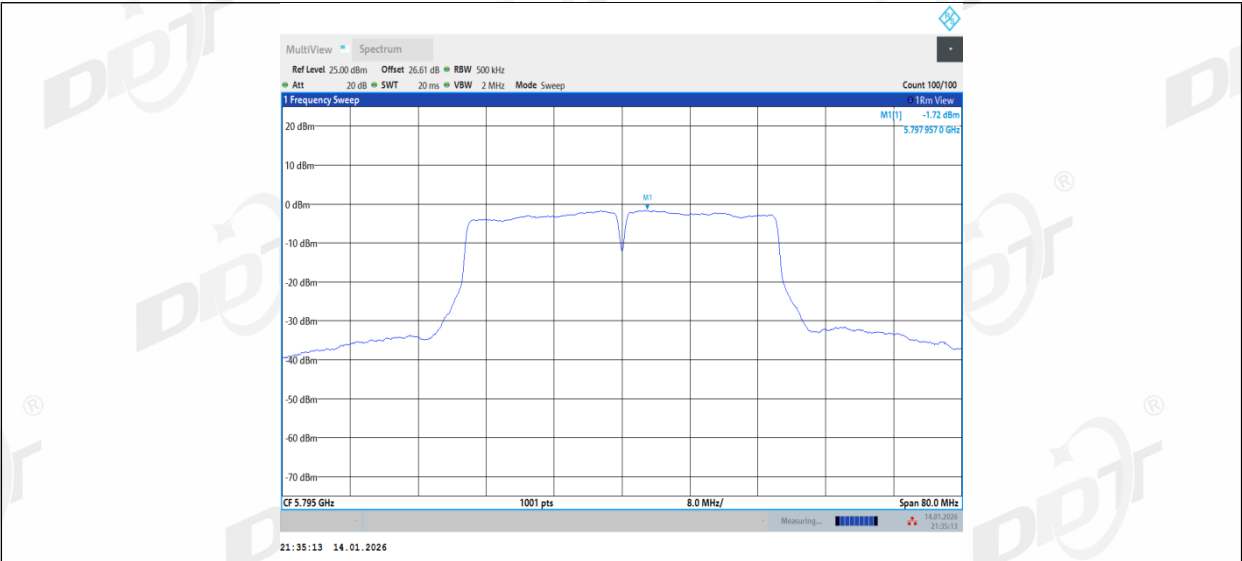
11AC20SISO_Ant1_5825



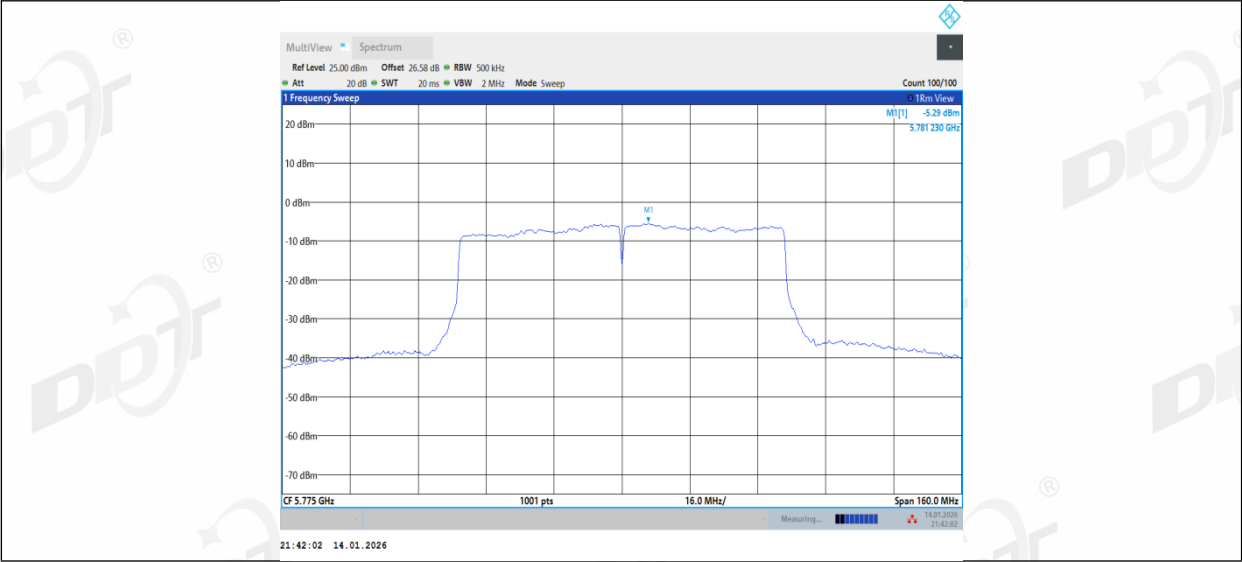
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



10. Frequency Stability Measurement

10.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

10.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

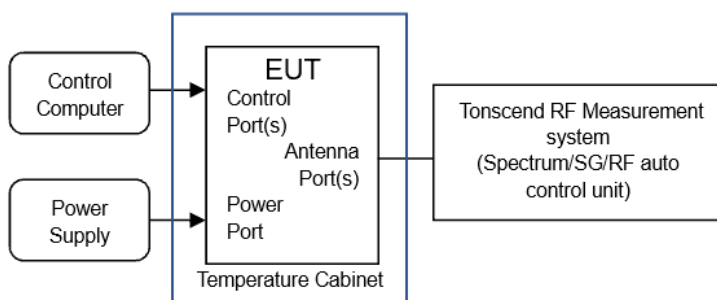
10.3. Test procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.

(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

10.4. Test setup



10.5. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-25.3℃,39.8-42.1%RH	Test Date:	2026.01.14-2026.01.15
Test Power Supply:	DC 12V	Sample Number:	S25123016-002

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
11AC20SISO	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40SISO	Ant1	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-20	20000.00	3.481288	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV					

			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	20000.00	3.481288	20	PASS
			NV	70	20000.00	3.481288	20	PASS
		5785	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5825	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	20000.00	3.433476	20	PASS
			NV	70	0.00	0.000000	20	PASS
11N20SI SO	Ant1	5745	NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5785	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5825	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
11N40SI SO	Ant1	5755	NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.950478	20	PASS

		5795	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
11AC20S ISO	Ant1	5745	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5785	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5825	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
11AC40S ISO	Ant1	5755	NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.950478	20	PASS
			NV	60	40000.00	6.950478	20	PASS
			NV	70	40000.00	6.950478	20	PASS
		5795	NV	-20	40000.00	6.902502	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	6.902502	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	40000.00	6.902502	20	PASS
11AC80S ISO	Ant1	5775	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS

			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2. Result

The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.