



RADIO TEST REPORT

Applicant	:	LYSORA TECHNOLOGY INC.
Address of Applicant	:	8 THE GREEN, STE A, DOVER, KENT COUNTY, DELAWARE 19901, USA
Manufacturer	:	LYSORA TECHNOLOGY INC.
Address of Manufacturer	:	8 THE GREEN, STE A, DOVER, KENT COUNTY, DELAWARE 19901, USA
Equipment under Test	:	Wireless Access Point
Model No.	:	L2531
FCC ID	:	2BPSN-L2531
IC	:	34118-L2531
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart E, ANSI C63.10-2020, RSS-247 Issue 4 July 24, 2025, ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)
Report No.	:	DDT-RE25061924-2E02
Issue Date	:	2025/10/17
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

Table of Contents

1.	Summary of Test Results	7
2.	General Test Information.....	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	9
2.3.	Block diagram of EUT configuration for test.....	9
2.4.	Decision of final test mode	9
2.5.	Deviations of test standard	13
2.6.	Test environment conditions	13
2.7.	Test laboratory	13
2.8.	Measurement uncertainty	14
3.	Equipment Used During Conductive Test	15
4.	26dB Bandwidth	16
4.1.	Block diagram of test setup	16
4.2.	Limits	16
4.3.	Test procedure	16
4.4.	Test result.....	17
4.5.	Test graphs	22
5.	6dB Bandwidth	111
5.1.	Block diagram of test setup	111
5.2.	Limits	111
5.3.	Test procedure	111
5.4.	Test result B4	112
5.5.	Test graphs B4	114
6.	99% Bandwidth	134
6.1.	Block diagram of test setup	134
6.2.	Limits	134
6.3.	Test procedure	134
6.4.	Test result.....	135
6.5.	Test graphs	140
7.	Duty Cycle	229
7.1.	Block diagram of test setup	229
7.2.	Limit.....	229
7.3.	Test procedure	229
7.4.	Test result.....	230
7.5.	Test graphs	235
8.	Maximum Output Power	324

8.1.	Block diagram of test setup	324
8.2.	Limits	324
8.3.	Test procedure	324
8.4.	Test result channel power	325
9.	Power Spectral Density	335
9.1.	Block diagram of test setup	335
9.2.	Limits	335
9.3.	Test procedure	335
9.4.	Test result.....	337
9.5.	Test graphs	344
10.	Frequency Stability Measurement.....	459
10.1.	Limit of Frequency Stability	459
10.2.	Measuring Instruments.....	459
10.3.	Test procedures	459
10.4.	Test setup.....	459
10.5.	Test result.....	460
11.	Antenna Requirements.....	481
11.1.	Limit.....	481
11.2.	Result	481
12.	Radiated Emission	482
12.1.	Test equipment.....	482
12.2.	Block diagram of test setup	482
12.3.	Limits	483
12.4.	Assistant equipment used for test	485
12.5.	Test procedure	485
12.6.	Test result.....	487
12.7.	Test data	488
13.	Band Edge Compliance.....	516
13.1.	Test equipment.....	516
13.2.	Block diagram of test setup	516
13.3.	Limits	517
13.4.	Assistant equipment used for test	517
13.5.	Test procedure	517
13.6.	Test result.....	517
13.7.	Test data	518
14.	Power Line Conducted Emissions.....	592
14.1.	Test equipment.....	592
14.2.	Block diagram of test setup	592

14.3. Limits 592

14.4. Assistant equipment used for test 592

14.5. Test procedure 593

14.6. Test result.....593

14.7. Test data 594

15. Test Setup Photograph 596

16. Photos of the EUT 599

Test Report Declare

Applicant	:	LYSORA TECHNOLOGY INC.
Address of Applicant	:	8 THE GREEN, STE A, DOVER, KENT COUNTY, DELAWARE 19901, USA
Equipment under Test	:	Wireless Access Point
Model No.	:	L2531
Manufacturer	:	LYSORA TECHNOLOGY INC.
Address of Manufacturer	:	8 THE GREEN, STE A, DOVER, KENT COUNTY, DELAWARE 19901, USA

Test Standard Used:
FCC Rules and Regulations Part 15 Subpart E,
ANSI C63.10-2020,
RSS-247 Issue 4 July 24, 2025,
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
789033 D02 General U-NII Test Procedures New Rules v02r01,
662911 D01 Multiple Transmitter Output v02r01,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

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-RE25061924-2E02		
Date of Receipt:	2025/06/20	Date of Test:	2025/06/20 - 2025/08/10

Created: Tiger Mo	Reviewed: Johnson Huang	Approved: Damon Hu
		
2025/08/10	2025/10/16	2025/10/17

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	2025/10/17	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), RSS-247 Clause 7.3.4.2, RSS-Gen Clause 6.7	/	Pass
2	Output Power	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
4	Frequency Stability Measurement	47 CFR Part 15 15.407 (g), RSS-Gen Clause 8.11	/	Pass
5	Radiated Emission	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.9	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.10	/	Pass
7	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h), RSS-247 Clause 7.3.6	/	Pass
8	Antenna Requirement	47 CFR Part 15.203, RSS-Gen clause 6.8	/	Pass
9	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	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

EUT Name	: Wireless Access Point
Model Number	: L2531
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: 802.3 af/at PoE, 24V/1A Passive PoE
Antenna Type	: Integrated Antenna
Max Antenna Gain(dBi)	: Ant1:6.38dBi, Ant2:6.11dBi, Ant3: 6.50dBi
Directional gain	: 6.33dB
Directional gain= $10 \cdot \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] = 6.33\text{dBi}$	

Radio Technology	: IEEE 802.11a/n/ac/ax
Operation frequency	: U-NII-1: 5180 MHz to 5250 MHz U-NII-2A: 5250 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5700 MHz 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) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information							
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)		IEEE 802.11ac (VHT160) IEEE 802.11ax	
UNII-1							
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210	50	5250 (Straddle)
40	5200	46	5230	/	/	/	/
44	5220	/	/	/	/	/	/
48	5240	/	/	/	/	/	/
UNII-2A							
52	5260	54	5270	58	5290	50	5250 (Straddle)
56	5280	62	5310	/	/	/	/
60	5300	/	/	/	/	/	/
64	5320	/	/	/	/	/	/
UNII-2C							
100	5500	102	5510	106	5530	114	5570
104	5520	110	5550	122	5610	/	/
108	5540	118	5590	138	/	/	/

112	5560	126	5630	/	/	/	/
116	5580	134	5670	/	/	/	/
120	5600	142	/	/	/	/	/
124	5620	/	/	/	/	/	/
128	5640	/	/	/	/	/	/
132	5660	/	/	/	/	/	/
136	5680	/	/	/	/	/	/
140	5700	/	/	/	/	/	/
UNII-3							
149	5745	151	5755	155	5775	/	/
153	5765	159	5795	/	/	/	/
157	5785	/	/	/	/	/	/
161	5805	/	/	/	/	/	/
165	5825	/	/	/	/	/	/
Note: Band 5600-5650MHz will be disabled when shipped to Canada.							

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:QATool_Dbg.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)

FCC UNII-1/ UNII-2A/UNII-2C/UNII-3and IC band UNII-2A/UNII-2C/UNII-3:

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency

Tested mode	Tx Power Setting			Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)ANT 2
	ANT1	ANT2	ANT3			
IEEE 802.11a	17.5	17.5	17.5	6	LCH: CH36	5180
	17.5	17.5	17.5	6	MCH: CH40	5200
	17.5	17.5	17.5	6	HCH: CH48	5240
	15	15	15	6	LCH: CH52	5260
	15	15	15	6	MCH: CH56	5280
	15	15	15	6	HCH: CH64	5320
	15	15	15	6	LCH: CH100	5500
	15	15	15	6	MCH: CH116	5580
	15	15	15	6	HCH: CH140	5700
	17.5	17.5	17.5	6	LCH: CH149	5745
	17.5	17.5	17.5	6	MCH: CH157	5785
	17.5	17.5	17.5	6	HCH: CH165	5825
IEEE 802.11n HT20	13.5	13.5	13.5	MCS16	LCH: CH36	5180
	13.5	13.5	13.5	MCS16	MCH: CH40	5200
	13.5	13.5	13.5	MCS16	HCH: CH48	5240
	10.5	10.5	10.5	MCS16	LCH: CH52	5260
	10.5	10.5	10.5	MCS16	MCH: CH56	5280
	10.5	10.5	10.5	MCS16	HCH: CH64	5320
	10.5	10.5	10.5	MCS16	LCH: CH100	5500
	10.5	10.5	10.5	MCS16	MCH: CH116	5580
	10.5	10.5	10.5	MCS16	HCH: CH140	5700
	13.5	13.5	13.5	MCS16	LCH: CH149	5745
	13.5	13.5	13.5	MCS16	MCH: CH157	5785
	13.5	13.5	13.5	MCS16	HCH: CH165	5825
IEEE 802.11n HT40	13.5	13.5	13.5	MCS16	LCH: CH38	5190
	13.5	13.5	13.5	MCS16	HCH: CH46	5230
	12	12	12	MCS16	LCH: CH54	5270
	12	12	12	MCS16	HCH: CH62	5310
	12	12	12	MCS16	LCH: CH102	5510
	12	12	12	MCS16	MCH: CH110	5550
	12	12	12	MCS16	HCH: CH134	5670
	13.5	13.5	13.5	MCS16	LCH: CH151	5755
	13.5	13.5	13.5	MCS16	HCH: CH159	5795
IEEE 802.11ac VHT20	13.5	13.5	13.5	MCS0	LCH: CH36	5180
	13.5	13.5	13.5	MCS0	MCH: CH40	5200
	13.5	13.5	13.5	MCS0	HCH: CH48	5240
	10.5	10.5	10.5	MCS0	LCH: CH52	5260

	10.5	10.5	10.5	MCS0	MCH: CH56	5280
	10.5	10.5	10.5	MCS0	HCH: CH64	5320
	10.5	10.5	10.5	MCS0	LCH: CH100	5500
	10.5	10.5	10.5	MCS0	MCH: CH116	5580
	10.5	10.5	10.5	MCS0	HCH: CH140	5700
	13.5	13.5	13.5	MCS0	LCH: CH149	5745
	13.5	13.5	13.5	MCS0	MCH: CH157	5785
	13.5	13.5	13.5	MCS0	HCH: CH165	5825
IEEE 802.11 ac VHT40	13.5	13.5	13.5	MCS0	LCH: CH38	5190
	13.5	13.5	13.5	MCS0	HCH: CH46	5230
	12	12	12	MCS0	LCH: CH54	5270
	12	12	12	MCS0	HCH: CH62	5310
	12	12	12	MCS0	LCH: CH102	5510
	12	12	12	MCS0	MCH: CH110	5550
	12	12	12	MCS0	HCH: CH134	5670
	13.5	13.5	13.5	MCS0	LCH: CH159	5755
IEEE 802.11ac VHT80	13.5	13.5	13.5	MCS0	HCH: CH36	5795
	13	13	13	MCS0	CH42	5210
	12	12	12	MCS0	CH58	5290
	12	12	12	MCS0	LCH: CH106	5530
	12	12	12	MCS0	HCH: CH122	5610
IEEE 802.11ac VHT160	13	13	13	MCS0	CH:155	5775
	12	12	12	MCS0	CH:50	5250
IEEE 802.11ax HE20	12	12	12	MCS0	CH:100	5570
	13.5	13.5	13.5	MCS0	LCH: CH36	5180
	13.5	13.5	13.5	MCS0	MCH: CH40	5200
	13.5	13.5	13.5	MCS0	HCH: CH48	5240
	10.5	10.5	10.5	MCS0	LCH: CH52	5260
	10.5	10.5	10.5	MCS0	MCH: CH56	5280
	10.5	10.5	10.5	MCS0	HCH: CH64	5320
	10.5	10.5	10.5	MCS0	LCH: CH100	5500
	10.5	10.5	10.5	MCS0	MCH: CH116	5580
	10.5	10.5	10.5	MCS0	HCH: CH140	5700
	13.5	13.5	13.5	MCS0	LCH: CH149	5745
	13.5	13.5	13.5	MCS0	MCH: CH157	5785
IEEE 802.11ax HE40	13.5	13.5	13.5	MCS0	HCH: CH165	5825
	13.5	13.5	13.5	MCS0	LCH: CH38	5190
	13.5	13.5	13.5	MCS0	HCH: CH46	5230
	12	12	12	MCS0	LCH: CH54	5270
	12	12	12	MCS0	HCH: CH62	5310
	12	12	12	MCS0	LCH: CH102	5510

	12	12	12	MCS0	MCH: CH110	5550
	12	12	12	MCS0	HCH: CH134	5670
	13.5	13.5	13.5	MCS0	LCH: CH159	5755
	13.5	13.5	13.5	MCS0	HCH: CH36	5795
IEEE 802.11ax HE80	13	13	13	MCS0	CH42	5210
	12	12	12	MCS0	CH58	5290
	12	12	12	MCS0	LCH: CH106	5530
	12	12	12	MCS0	HCH: CH122	5610
	13	13	13	MCS0	CH155	5775
IEEE 802.11ax HE160	12	12	12	MCS0	CH:50	5250
	12	12	12	MCS0	CH:100	5570
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.						

IC UNII-1:

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency

Tested mode	Tx Power Setting			Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)ANT 2
	ANT1	ANT2	ANT3			
IEEE 802.11a	11.5	11.5	11.5	6	LCH: CH36	5180
	11.5	11.5	11.5	6	MCH: CH40	5200
	11.5	11.5	11.5	6	HCH: CH48	5240
IEEE 802.11n HT20	7.5	7.5	7.5	MCS 8	LCH: CH36	5180
	7.5	7.5	7.5	MCS 8	MCH: CH40	5200
	7.5	7.5	7.5	MCS 8	HCH: CH48	5240
IEEE 802.11n HT40	9	9	9	MCS 8	LCH: CH38	5190
	9	9	9	MCS 8	HCH: CH46	5230
IEEE 802.11ac VHT20	7.5	7.5	7.5	MCS0	LCH: CH36	5180
	7.5	7.5	7.5	MCS0	MCH: CH40	5200
	7.5	7.5	7.5	MCS0	HCH: CH48	5240
IEEE 802.11 ac VHT40	9	9	9	MCS0	LCH: CH38	5190
	9	9	9	MCS0	HCH: CH46	5230
IEEE 802.11ac VHT80	9	9	9	MCS0	CH:42	5210
IEEE 802.11ac VHT160	9	9	9	MCS0	CH:36	5250
IEEE 802.11ax HE20	7.5	7.5	7.5	MCS0	LCH: CH36	5180
	7.5	7.5	7.5	MCS0	MCH: CH40	5200
	7.5	7.5	7.5	MCS0	HCH: CH48	5240
IEEE 802.11ax HE40	9	9	9	MCS0	LCH: CH38	5190
	9	9	9	MCS0	HCH: CH46	5230
IEEE 802.11ax HE80	9	9	9	MCS0	CH42	5210
IEEE 802.11ax HE160	9	9	9	MCS0	CH:36	5250

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

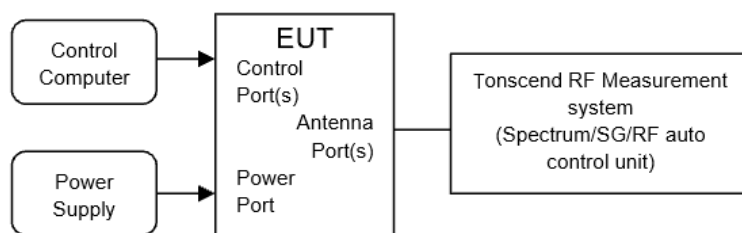
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
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
☑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	2025/08/25
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	Ver.3.2.22	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
	---	5725-5850 (Note: Not required, just for report)

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:	25.6°C,43.1%RH	Test Date:	2025.06.27/2025.07.18-2025.07.23
Test Power Supply:	AC120V/60Hz	Sample Number:	S25061924-003

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.28	5168.96	5190.24	---	---
	Ant2	5180	20.72	5169.52	5190.24	---	---
	Ant3	5180	20.56	5169.72	5190.28	---	---
	Ant1	5200	22.12	5188.68	5210.80	---	---
	Ant2	5200	20.48	5189.72	5210.20	---	---
	Ant3	5200	20.84	5189.72	5210.56	---	---
	Ant1	5240	19.56	5230.20	5249.76	---	---
	Ant2	5240	19.48	5230.24	5249.72	---	---
	Ant3	5240	19.56	5230.20	5249.76	---	---
	Ant1	5260	19.68	5250.16	5269.84	---	---
	Ant2	5260	19.76	5250.08	5269.84	---	---
	Ant3	5260	19.84	5250.00	5269.84	---	---
	Ant1	5280	19.80	5270.04	5289.84	---	---
	Ant2	5280	19.72	5270.12	5289.84	---	---
	Ant3	5280	19.84	5270.04	5289.88	---	---
	Ant1	5320	21.16	5309.48	5330.64	---	---
	Ant2	5320	21.08	5309.56	5330.64	---	---
	Ant3	5320	21.68	5308.96	5330.64	---	---
	Ant1	5500	20.60	5489.68	5510.28	---	---
	Ant2	5500	20.64	5489.64	5510.28	---	---
	Ant3	5500	20.96	5489.68	5510.64	---	---
	Ant1	5580	19.88	5570.00	5589.88	---	---
	Ant2	5580	19.80	5570.00	5589.80	---	---
	Ant3	5580	19.84	5570.00	5589.84	---	---
	Ant1	5700	20.96	5688.88	5709.84	---	---
	Ant2	5700	20.64	5689.28	5709.92	---	---
	Ant3	5700	20.32	5689.52	5709.84	---	---
	Ant1	5745	20.92	5734.72	5755.64	---	---
	Ant2	5745	20.92	5734.72	5755.64	---	---
	Ant3	5745	20.56	5734.72	5755.28	---	---
	Ant1	5785	20.04	5774.80	5794.84	---	---
	Ant2	5785	19.92	5774.88	5794.80	---	---
	Ant3	5785	20.24	5775.12	5795.36	---	---
	Ant1	5825	21.08	5813.76	5834.84	---	---
	Ant2	5825	20.32	5814.52	5834.84	---	---
	Ant3	5825	20.28	5814.56	5834.84	---	---
11N20	Ant1	5180	21.40	5169.64	5191.04	---	---
	Ant2	5180	21.76	5169.56	5191.32	---	---
	Ant3	5180	21.08	5169.60	5190.68	---	---
	Ant1	5200	21.40	5189.32	5210.72	---	---
	Ant2	5200	23.56	5187.40	5210.96	---	---
	Ant3	5200	21.28	5189.64	5210.92	---	---
	Ant1	5240	20.24	5229.88	5250.12	---	---
	Ant2	5240	20.00	5230.00	5250.00	---	---
	Ant3	5240	20.04	5230.00	5250.04	---	---
	Ant1	5260	20.12	5250.00	5270.12	---	---
	Ant2	5260	20.20	5249.88	5270.08	---	---
	Ant3	5260	20.24	5249.92	5270.16	---	---
	Ant1	5280	20.20	5269.88	5290.08	---	---
	Ant2	5280	20.04	5270.04	5290.08	---	---
	Ant3	5280	20.20	5269.88	5290.08	---	---
	Ant1	5320	21.36	5309.32	5330.68	---	---
	Ant2	5320	23.60	5307.32	5330.92	---	---
	Ant3	5320	22.32	5308.36	5330.68	---	---
	Ant1	5500	21.12	5489.56	5510.68	---	---
	Ant2	5500	21.40	5489.56	5510.96	---	---
	Ant3	5500	21.04	5489.64	5510.68	---	---

	Ant1	5580	20.24	5569.92	5590.16	---	---
	Ant2	5580	20.16	5569.92	5590.08	---	---
	Ant3	5580	20.40	5569.80	5590.20	---	---
	Ant1	5700	21.60	5688.88	5710.48	---	---
	Ant2	5700	23.36	5687.32	5710.68	---	---
	Ant3	5700	22.20	5688.36	5710.56	---	---
	Ant1	5745	21.00	5734.68	5755.68	---	---
	Ant2	5745	21.44	5734.88	5756.32	---	---
	Ant3	5745	21.08	5734.60	5755.68	---	---
	Ant1	5785	20.36	5774.72	5795.08	---	---
	Ant2	5785	20.16	5774.96	5795.12	---	---
	Ant3	5785	20.16	5774.88	5795.04	---	---
	Ant1	5825	21.20	5814.32	5835.52	---	---
	Ant2	5825	23.60	5812.24	5835.84	---	---
	Ant3	5825	22.28	5813.36	5835.64	---	---
11N40	Ant1	5190	40.72	5169.60	5210.32	---	---
	Ant2	5190	40.40	5169.68	5210.08	---	---
	Ant3	5190	40.48	5169.92	5210.40	---	---
	Ant1	5230	40.24	5209.84	5250.08	---	---
	Ant2	5230	40.08	5210.00	5250.08	---	---
	Ant3	5230	40.08	5209.92	5250.00	---	---
	Ant1	5270	40.24	5250.00	5290.24	---	---
	Ant2	5270	40.00	5250.08	5290.08	---	---
	Ant3	5270	39.92	5250.08	5290.00	---	---
	Ant1	5310	45.44	5285.04	5330.48	---	---
	Ant2	5310	40.48	5289.76	5330.24	---	---
	Ant3	5310	40.48	5289.92	5330.40	---	---
	Ant1	5510	40.40	5489.76	5530.16	---	---
	Ant2	5510	40.24	5489.76	5530.00	---	---
	Ant3	5510	40.08	5490.08	5530.16	---	---
	Ant1	5550	40.16	5529.84	5570.00	---	---
	Ant2	5550	40.00	5530.00	5570.00	---	---
	Ant3	5550	39.92	5530.00	5569.92	---	---
	Ant1	5670	48.88	5645.04	5693.92	---	---
	Ant2	5670	40.48	5649.68	5690.16	---	---
	Ant3	5670	45.04	5645.12	5690.16	---	---
	Ant1	5755	41.44	5734.52	5775.96	---	---
	Ant2	5755	40.24	5734.84	5775.08	---	---
	Ant3	5755	40.56	5734.84	5775.40	---	---
	Ant1	5795	40.40	5774.68	5815.08	---	---
	Ant2	5795	39.92	5775.00	5814.92	---	---
	Ant3	5795	40.00	5775.00	5815.00	---	---
11AC20	Ant1	5180	21.36	5169.24	5190.60	---	---
	Ant2	5180	22.44	5169.20	5191.64	---	---
	Ant3	5180	20.68	5169.68	5190.36	---	---
	Ant1	5200	21.12	5189.44	5210.56	---	---
	Ant2	5200	21.76	5189.04	5210.80	---	---
	Ant3	5200	21.36	5189.72	5211.08	---	---
	Ant1	5240	20.00	5230.00	5250.00	---	---
	Ant2	5240	20.08	5229.92	5250.00	---	---
	Ant3	5240	20.16	5229.92	5250.08	---	---
	Ant1	5260	20.32	5249.92	5270.24	---	---
	Ant2	5260	20.20	5249.96	5270.16	---	---
	Ant3	5260	20.16	5249.96	5270.12	---	---
	Ant1	5280	20.44	5269.84	5290.28	---	---
	Ant2	5280	20.32	5269.92	5290.24	---	---
	Ant3	5280	20.12	5269.96	5290.08	---	---
	Ant1	5320	21.72	5309.20	5330.92	---	---
	Ant2	5320	21.96	5308.72	5330.68	---	---
	Ant3	5320	20.88	5309.68	5330.56	---	---
	Ant1	5500	21.12	5489.48	5510.60	---	---
	Ant2	5500	21.96	5488.72	5510.68	---	---
	Ant3	5500	21.48	5489.60	5511.08	---	---
	Ant1	5580	20.48	5569.80	5590.28	---	---
	Ant2	5580	20.24	5569.92	5590.16	---	---
	Ant3	5580	20.28	5569.84	5590.12	---	---

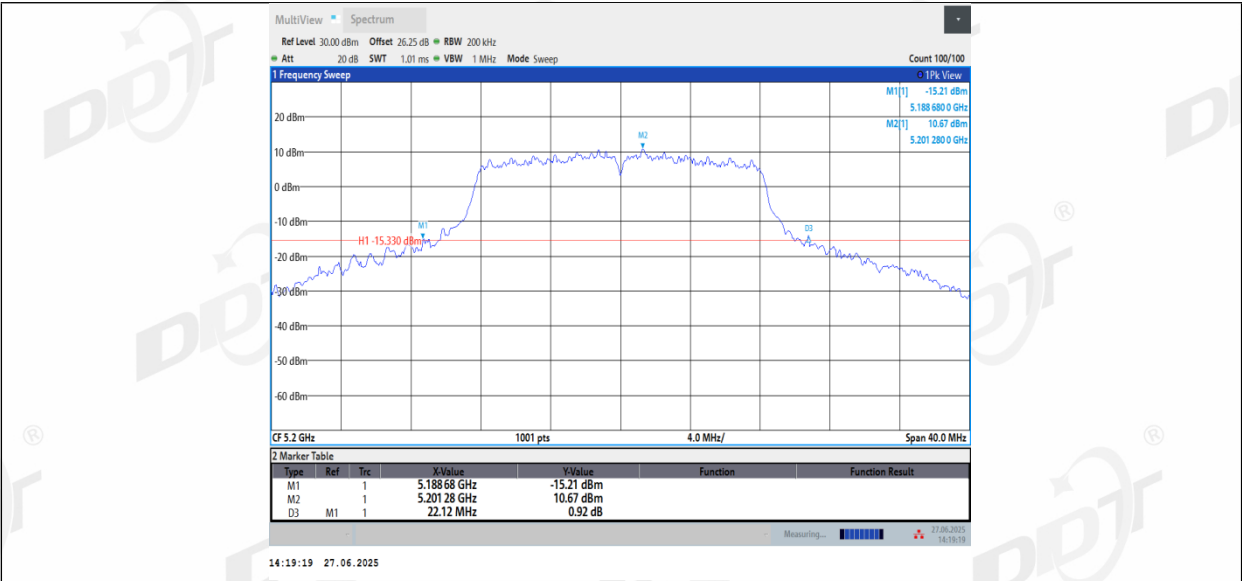
11AC40	Ant1	5700	21.40	5689.16	5710.56	---	---
	Ant2	5700	22.20	5688.32	5710.52	---	---
	Ant3	5700	21.32	5689.00	5710.32	---	---
	Ant1	5745	20.92	5734.68	5755.60	---	---
	Ant2	5745	21.68	5734.80	5756.48	---	---
	Ant3	5745	20.88	5734.72	5755.60	---	---
	Ant1	5785	20.40	5774.88	5795.28	---	---
	Ant2	5785	20.32	5774.92	5795.24	---	---
	Ant3	5785	20.24	5774.88	5795.12	---	---
	Ant1	5825	21.44	5814.12	5835.56	---	---
	Ant2	5825	22.20	5813.28	5835.48	---	---
	Ant3	5825	20.80	5814.56	5835.36	---	---
	Ant1	5190	41.44	5169.52	5210.96	---	---
	Ant2	5190	40.48	5169.84	5210.32	---	---
	Ant3	5190	40.80	5169.76	5210.56	---	---
	Ant1	5230	40.24	5209.76	5250.00	---	---
	Ant2	5230	39.84	5210.08	5249.92	---	---
	Ant3	5230	40.16	5210.00	5250.16	---	---
	Ant1	5270	40.40	5249.84	5290.24	---	---
	Ant2	5270	39.60	5250.16	5289.76	---	---
	Ant3	5270	40.08	5250.00	5290.08	---	---
	Ant1	5310	42.00	5289.04	5331.04	---	---
	Ant2	5310	40.32	5289.92	5330.24	---	---
	Ant3	5310	41.12	5289.44	5330.56	---	---
	Ant1	5510	41.76	5489.28	5531.04	---	---
	Ant2	5510	40.24	5489.92	5530.16	---	---
	Ant3	5510	40.48	5489.76	5530.24	---	---
	Ant1	5550	40.48	5529.76	5570.24	---	---
	Ant2	5550	39.84	5530.08	5569.92	---	---
	Ant3	5550	40.08	5529.92	5570.00	---	---
	Ant1	5670	46.40	5648.48	5694.88	---	---
	Ant2	5670	40.48	5649.68	5690.16	---	---
	Ant3	5670	41.36	5649.12	5690.48	---	---
	Ant1	5755	45.12	5734.52	5779.64	---	---
	Ant2	5755	40.32	5734.92	5775.24	---	---
	Ant3	5755	40.32	5734.92	5775.24	---	---
	Ant1	5795	40.40	5774.68	5815.08	---	---
	Ant2	5795	39.44	5775.24	5814.68	---	---
	Ant3	5795	39.92	5775.00	5814.92	---	---
11AC80	Ant1	5210	83.84	5169.04	5252.88	---	---
	Ant2	5210	79.68	5170.32	5250.00	---	---
	Ant3	5210	80.96	5170.32	5251.28	---	---
	Ant1	5290	87.20	5245.68	5332.88	---	---
	Ant2	5290	80.00	5250.00	5330.00	---	---
	Ant3	5290	81.60	5248.56	5330.16	---	---
	Ant1	5530	85.92	5486.64	5572.56	---	---
	Ant2	5530	79.68	5490.16	5569.84	---	---
	Ant3	5530	82.08	5489.52	5571.60	---	---
	Ant1	5610	80.16	5569.84	5650.00	---	---
	Ant2	5610	79.20	5570.48	5649.68	---	---
	Ant3	5610	79.20	5570.48	5649.68	---	---
	Ant1	5775	79.84	5735.00	5814.84	---	---
	Ant2	5775	79.20	5735.32	5814.52	---	---
	Ant3	5775	79.20	5735.48	5814.68	---	---
11AC160	Ant1	5250	167.04	5167.76	5334.80	---	---
	Ant2	5250	166.08	5169.36	5335.44	---	---
	Ant3	5250	166.08	5169.36	5335.44	---	---
	Ant1	5250_UNII-1	82.24	5167.76	5250	---	---
	Ant2	5250_UNII-1	80.64	5169.36	5250	---	---
	Ant3	5250_UNII-1	80.64	5169.36	5250	---	---
	Ant1	5250_UNII-2A	84.8	5250	5334.80	---	---
	Ant2	5250_UNII-2A	85.44	5250	5335.44	---	---
	Ant3	5250_UNII-2A	85.44	5250	5335.44	---	---
	Ant1	5570	167.04	5488.40	5655.44	---	---
	Ant2	5570	166.08	5487.76	5653.84	---	---
	Ant3	5570	162.56	5488.40	5650.96	---	---

11AX20	Ant1	5180	21.64	5169.20	5190.84	---	---
	Ant2	5180	22.76	5169.00	5191.76	---	---
	Ant3	5180	21.16	5169.40	5190.56	---	---
	Ant1	5200	21.52	5189.04	5210.56	---	---
	Ant2	5200	21.80	5189.16	5210.96	---	---
	Ant3	5200	21.40	5189.24	5210.64	---	---
	Ant1	5240	19.84	5230.08	5249.92	---	---
	Ant2	5240	19.84	5230.08	5249.92	---	---
	Ant3	5240	19.84	5230.08	5249.92	---	---
	Ant1	5260	21.12	5249.48	5270.60	---	---
	Ant2	5260	20.96	5249.44	5270.40	---	---
	Ant3	5260	21.04	5249.44	5270.48	---	---
	Ant1	5280	21.24	5269.36	5290.60	---	---
	Ant2	5280	21.44	5269.28	5290.72	---	---
	Ant3	5280	20.96	5269.48	5290.44	---	---
	Ant1	5320	22.16	5308.68	5330.84	---	---
	Ant2	5320	23.84	5307.88	5331.72	---	---
	Ant3	5320	21.52	5309.32	5330.84	---	---
	Ant1	5500	21.40	5489.28	5510.68	---	---
	Ant2	5500	22.76	5489.00	5511.76	---	---
	Ant3	5500	22.08	5488.96	5511.04	---	---
	Ant1	5580	21.08	5569.36	5590.44	---	---
	Ant2	5580	21.12	5569.36	5590.48	---	---
	Ant3	5580	21.00	5569.40	5590.40	---	---
	Ant1	5700	21.36	5689.12	5710.48	---	---
	Ant2	5700	22.68	5687.88	5710.56	---	---
	Ant3	5700	21.44	5689.08	5710.52	---	---
	Ant1	5745	21.12	5734.40	5755.52	---	---
	Ant2	5745	21.52	5734.40	5755.92	---	---
	Ant3	5745	21.48	5734.40	5755.88	---	---
	Ant1	5785	21.08	5774.36	5795.44	---	---
	Ant2	5785	21.00	5774.36	5795.36	---	---
	Ant3	5785	20.84	5774.56	5795.40	---	---
	Ant1	5825	21.36	5814.16	5835.52	---	---
	Ant2	5825	21.72	5814.08	5835.80	---	---
	Ant3	5825	21.64	5814.00	5835.64	---	---
11AX40	Ant1	5190	42.16	5168.56	5210.72	---	---
	Ant2	5190	39.60	5170.24	5209.84	---	---
	Ant3	5190	39.60	5170.24	5209.84	---	---
	Ant1	5230	39.52	5210.24	5249.76	---	---
	Ant2	5230	39.52	5210.24	5249.76	---	---
	Ant3	5230	39.52	5210.24	5249.76	---	---
	Ant1	5270	39.52	5250.24	5289.76	---	---
	Ant2	5270	39.52	5250.24	5289.76	---	---
	Ant3	5270	39.52	5250.24	5289.76	---	---
	Ant1	5310	39.84	5290.24	5330.08	---	---
	Ant2	5310	40.56	5290.16	5330.72	---	---
	Ant3	5310	41.28	5288.48	5329.76	---	---
	Ant1	5510	39.52	5490.24	5529.76	---	---
	Ant2	5510	39.76	5490.24	5530.00	---	---
	Ant3	5510	41.20	5488.64	5529.84	---	---
	Ant1	5550	39.52	5530.24	5569.76	---	---
	Ant2	5550	39.60	5530.16	5569.76	---	---
	Ant3	5550	39.52	5530.24	5569.76	---	---
	Ant1	5670	39.92	5650.16	5690.08	---	---
	Ant2	5670	41.84	5649.04	5690.88	---	---
	Ant3	5670	41.28	5648.48	5689.76	---	---
	Ant1	5755	39.68	5735.16	5774.84	---	---
	Ant2	5755	39.68	5735.16	5774.84	---	---
	Ant3	5755	39.60	5735.16	5774.76	---	---
	Ant1	5795	39.52	5775.24	5814.76	---	---
	Ant2	5795	39.60	5775.16	5814.76	---	---
	Ant3	5795	39.52	5775.24	5814.76	---	---
11AX80	Ant1	5210	80.32	5169.84	5250.16	---	---
	Ant2	5210	80.48	5169.84	5250.32	---	---
	Ant3	5210	85.12	5169.84	5254.96	---	---

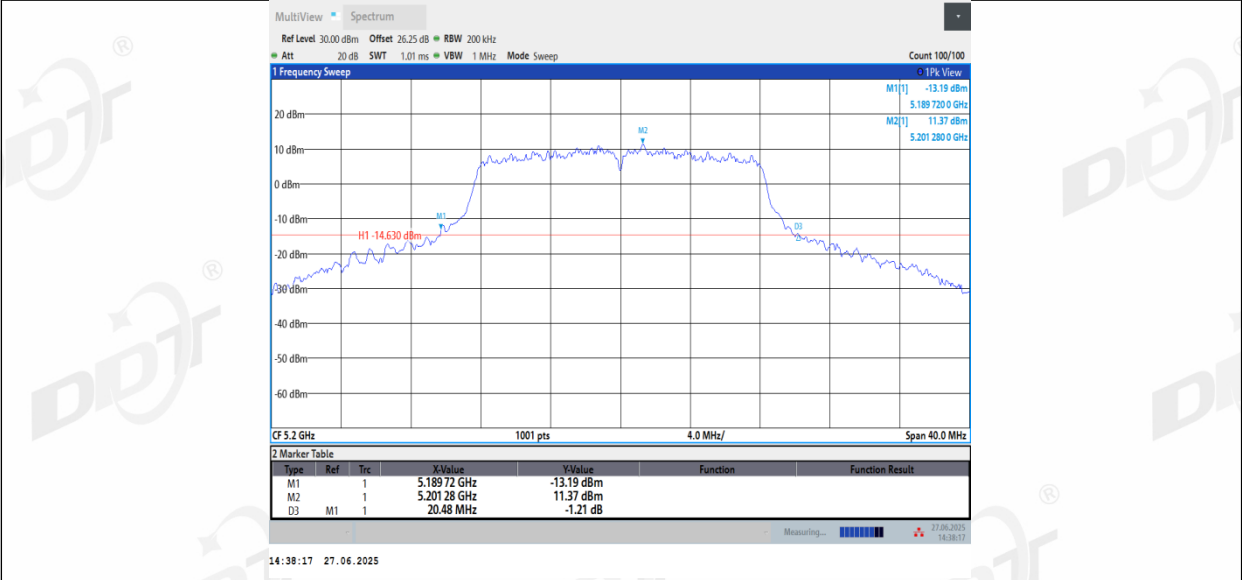
	Ant1	5290	80.00	5250.00	5330.00	---	---
	Ant2	5290	80.32	5249.84	5330.16	---	---
	Ant3	5290	80.80	5249.52	5330.32	---	---
	Ant1	5530	80.16	5489.84	5570.00	---	---
	Ant2	5530	80.32	5489.84	5570.16	---	---
	Ant3	5530	80.32	5489.68	5570.00	---	---
	Ant1	5610	80.00	5570.00	5650.00	---	---
	Ant2	5610	80.32	5569.84	5650.16	---	---
	Ant3	5610	80.16	5570.00	5650.16	---	---
	Ant1	5775	80.00	5735.00	5815.00	---	---
	Ant2	5775	80.00	5735.00	5815.00	---	---
	Ant3	5775	80.32	5734.84	5815.16	---	---
11AX160	Ant1	5250	162.24	5169.04	5331.28	---	---
	Ant2	5250	162.24	5169.04	5331.28	---	---
	Ant3	5250	162.24	5169.36	5331.60	---	---
	Ant1	5250_UNII-1	80.96	5169.04	5250	---	---
	Ant2	5250_UNII-1	80.96	5169.04	5250	---	---
	Ant3	5250_UNII-1	80.64	5169.36	5250	---	---
	Ant1	5250_UNII-2A	81.28	5250	5331.28	---	---
	Ant2	5250_UNII-2A	81.28	5250	5331.28	---	---
	Ant3	5250_UNII-2A	81.6	5250	5331.60	---	---
	Ant1	5570	162.88	5488.72	5651.60	---	---
	Ant2	5570	162.24	5489.04	5651.28	---	---
	Ant3	5570	162.88	5488.72	5651.60	---	---

4.5. Test graphs

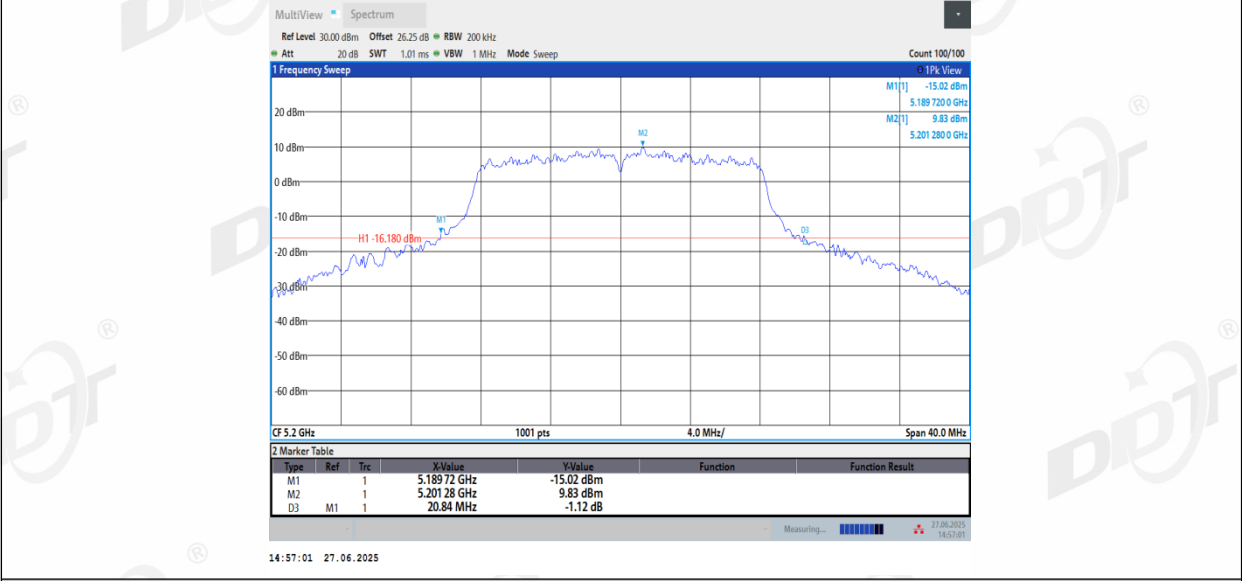




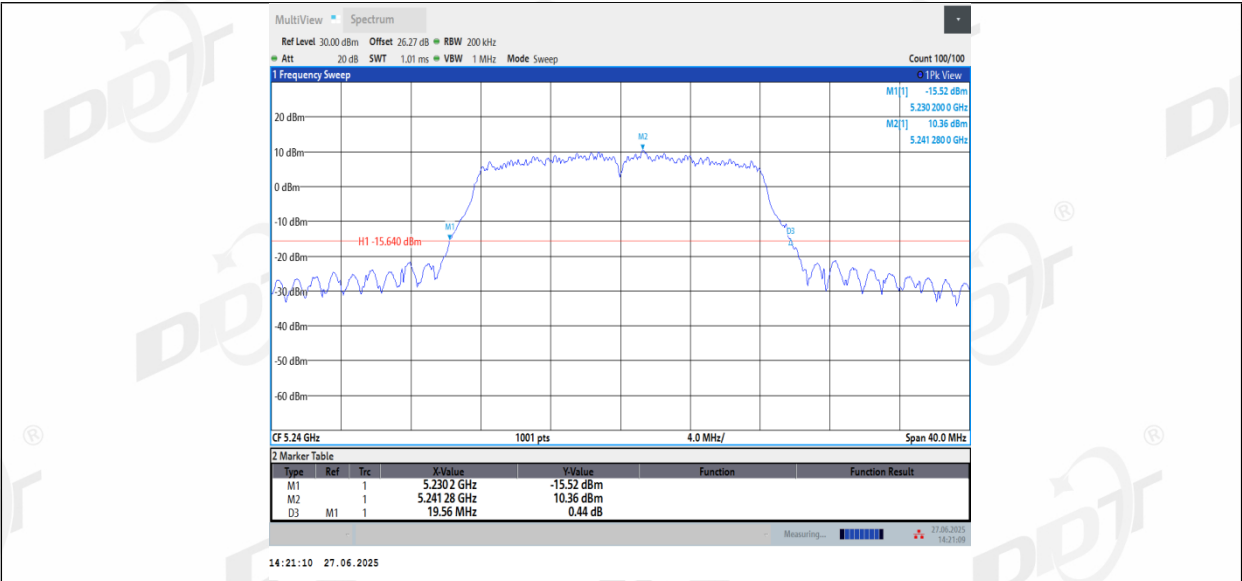
11A_Ant2_5200



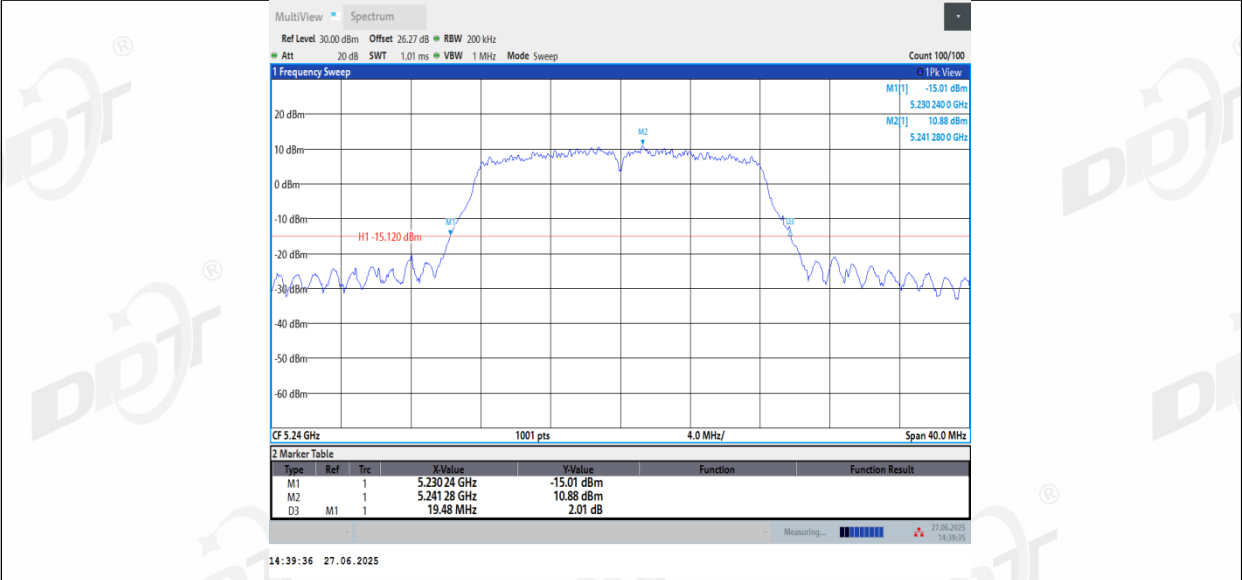
11A_Ant3_5200



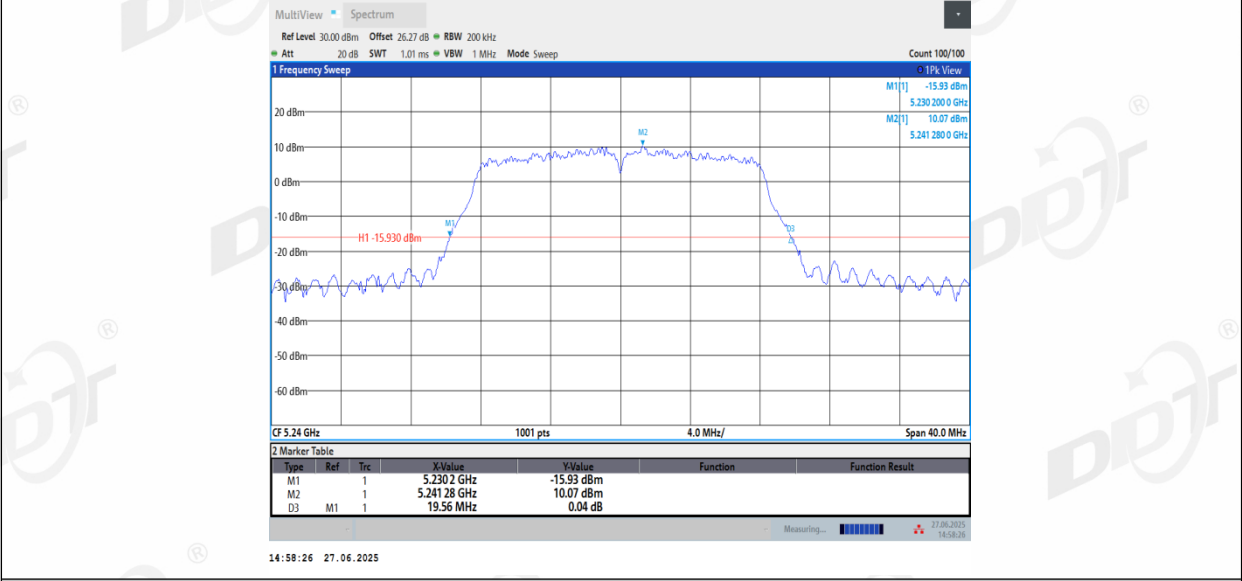
11A_Ant1_5240



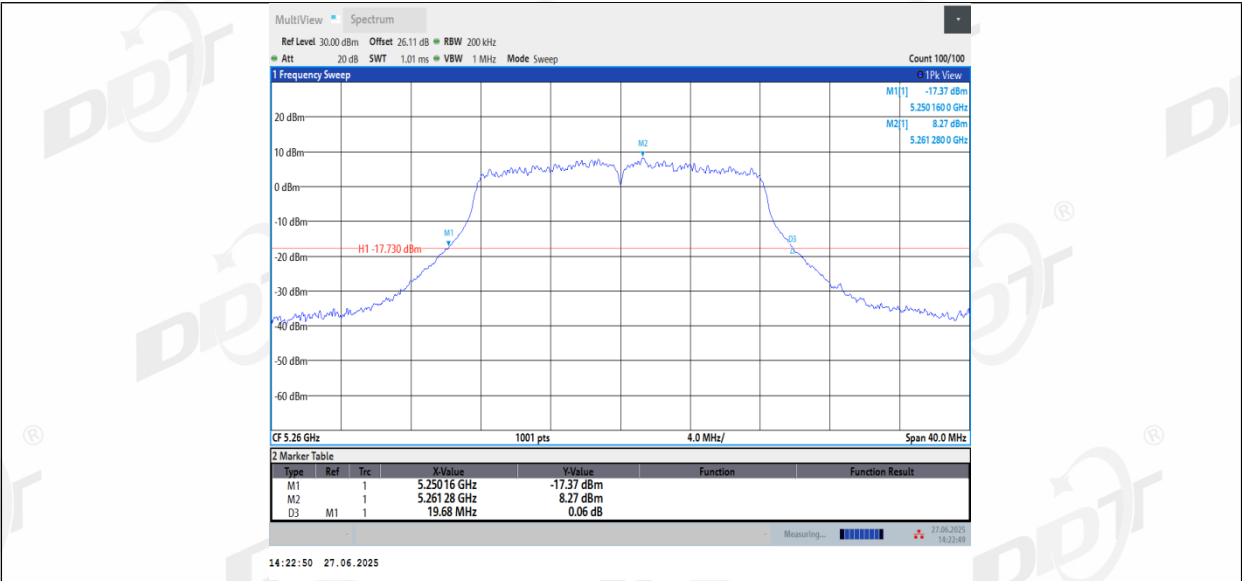
11A_Ant2_5240



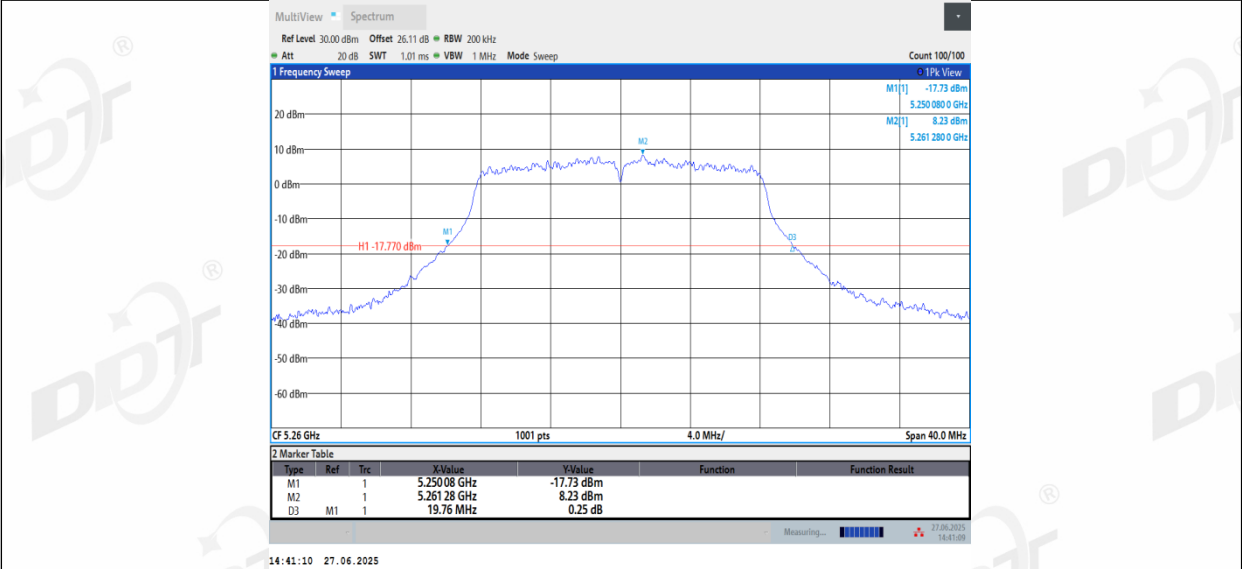
11A_Ant3_5240



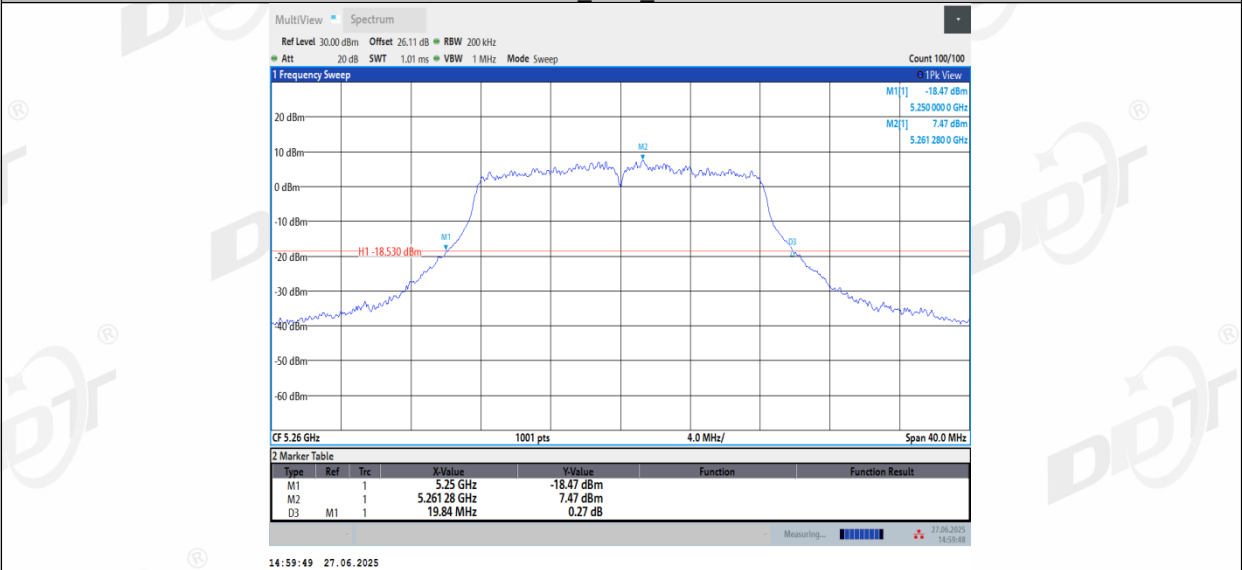
11A_Ant1_5260



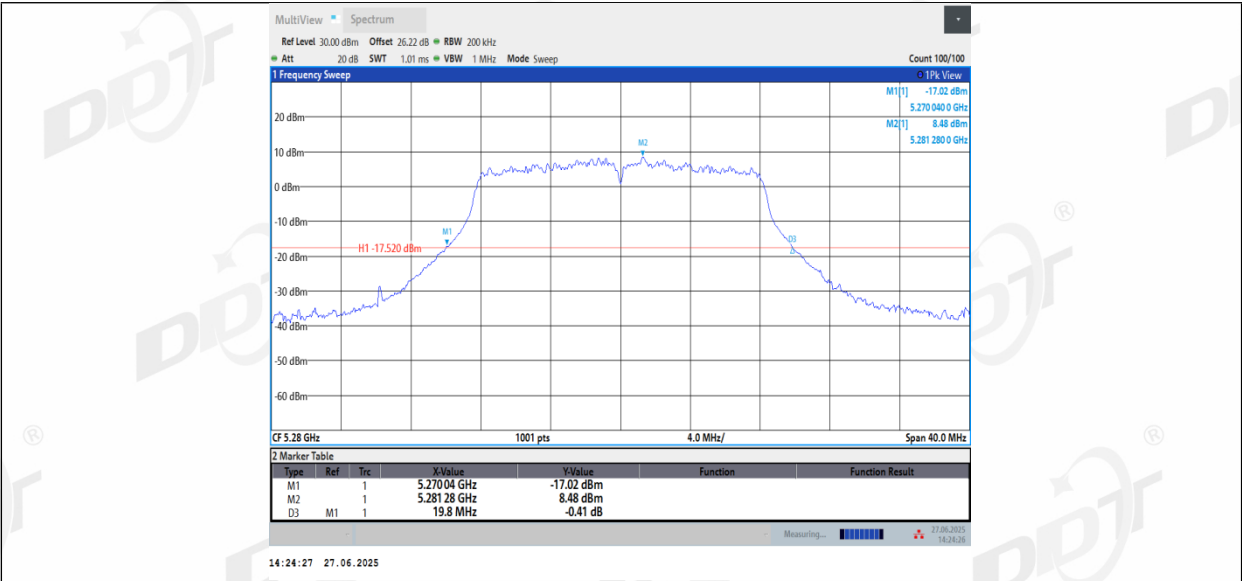
11A_Ant2_5260



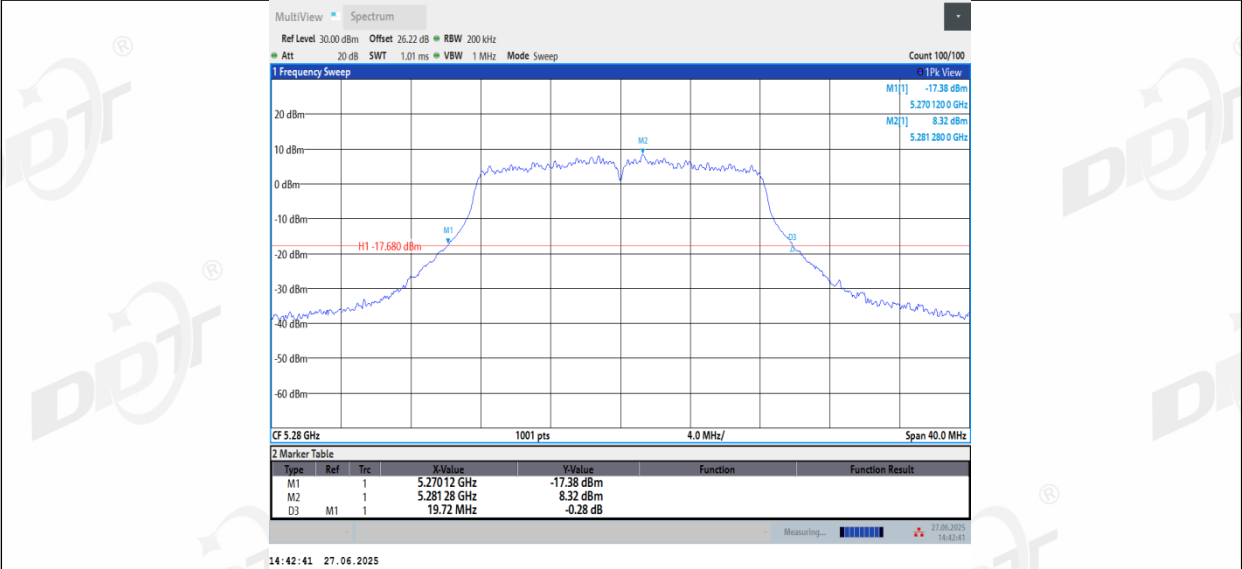
11A_Ant3_5260



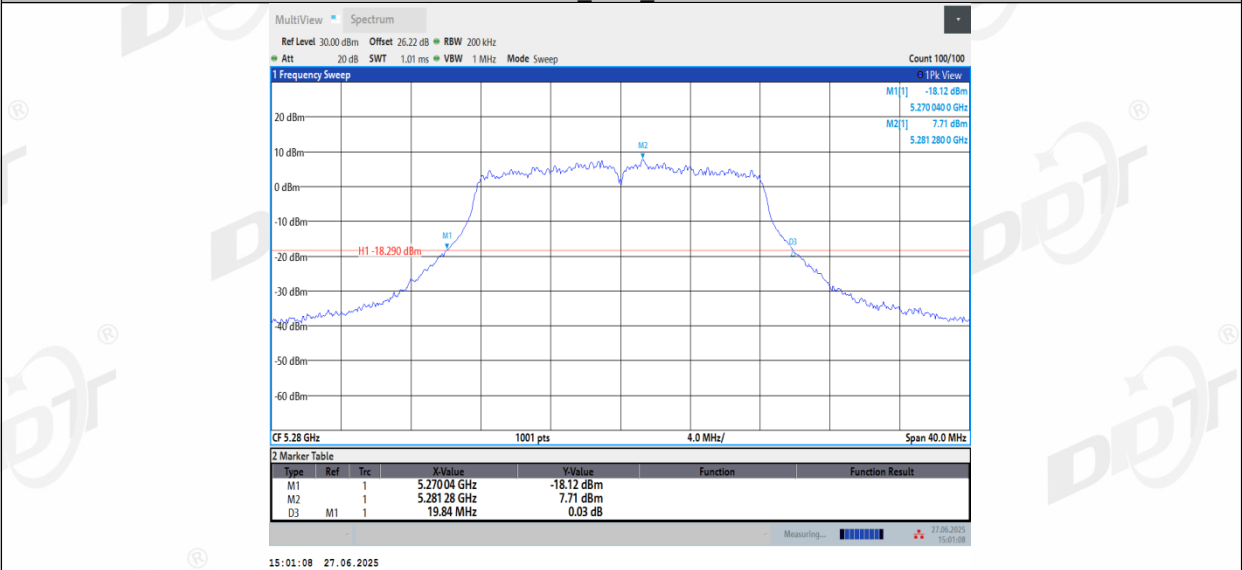
11A_Ant1_5280



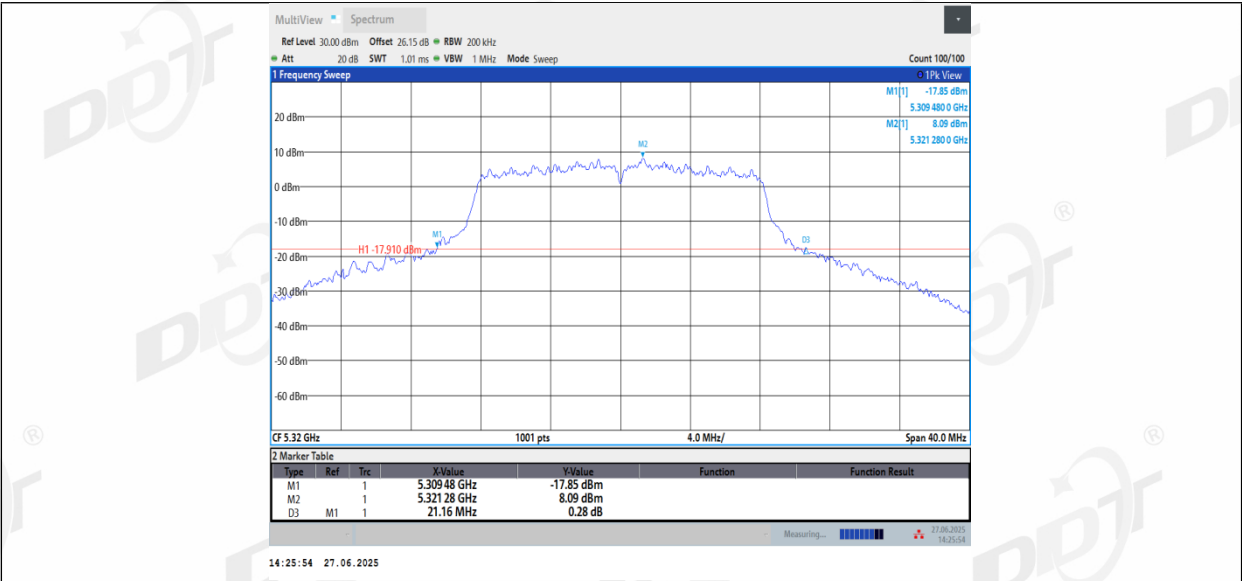
11A_Ant2_5280



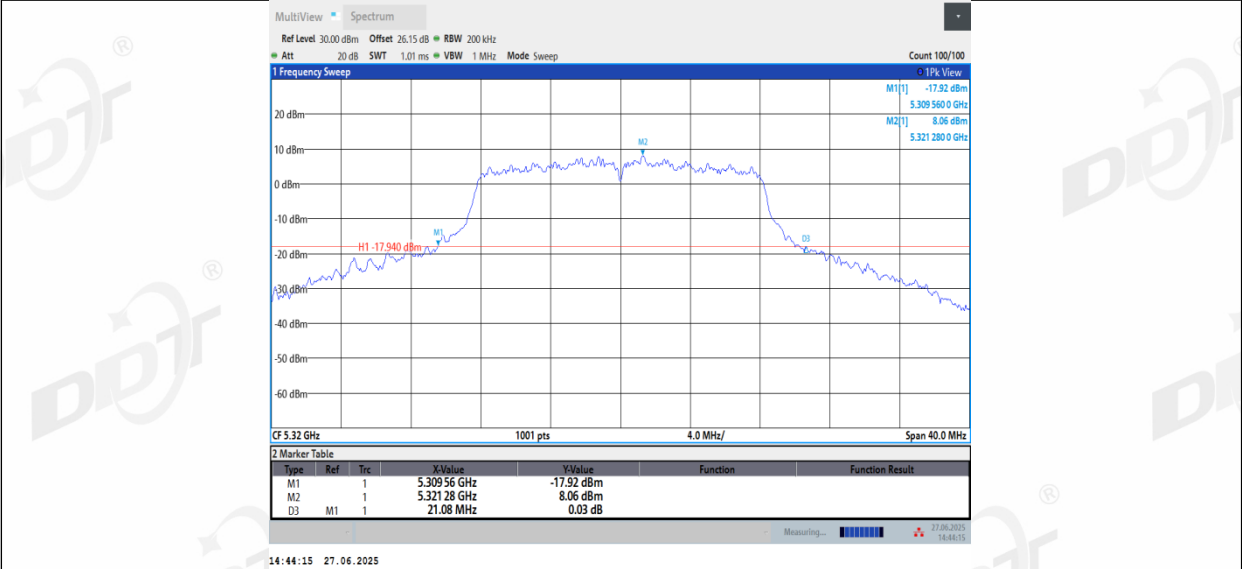
11A_Ant3_5280



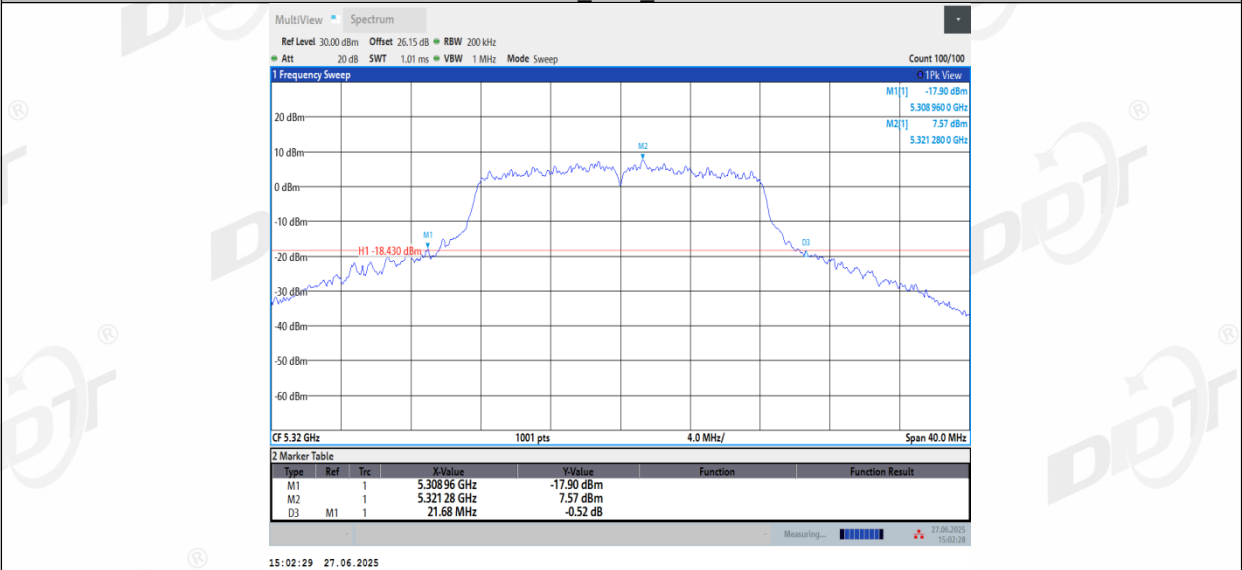
11A_Ant1_5320



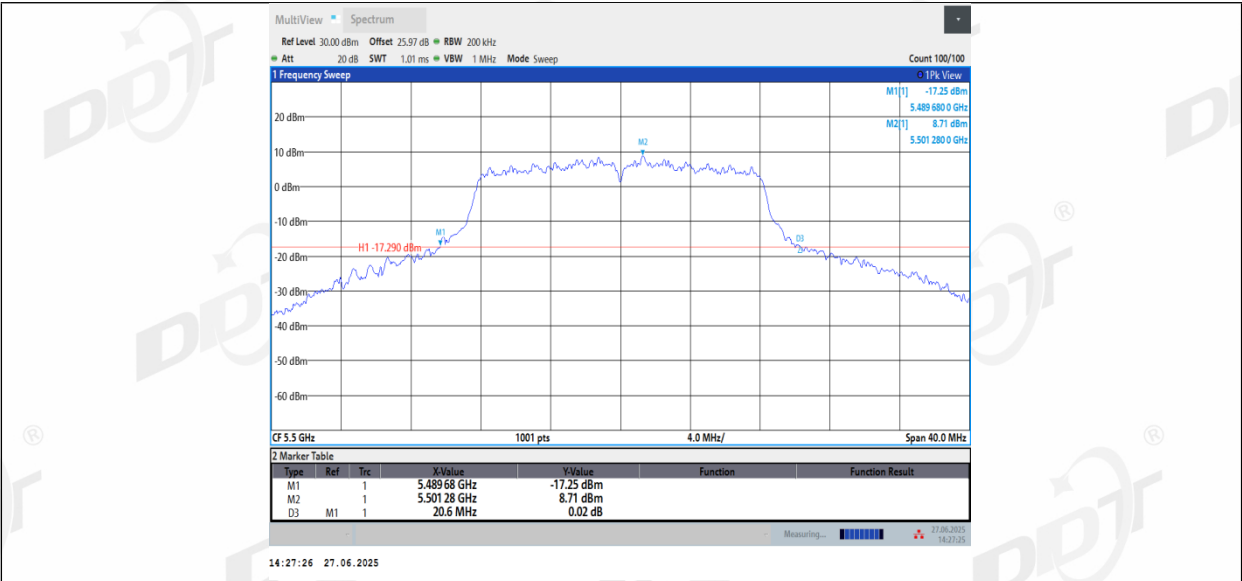
11A_Ant2_5320



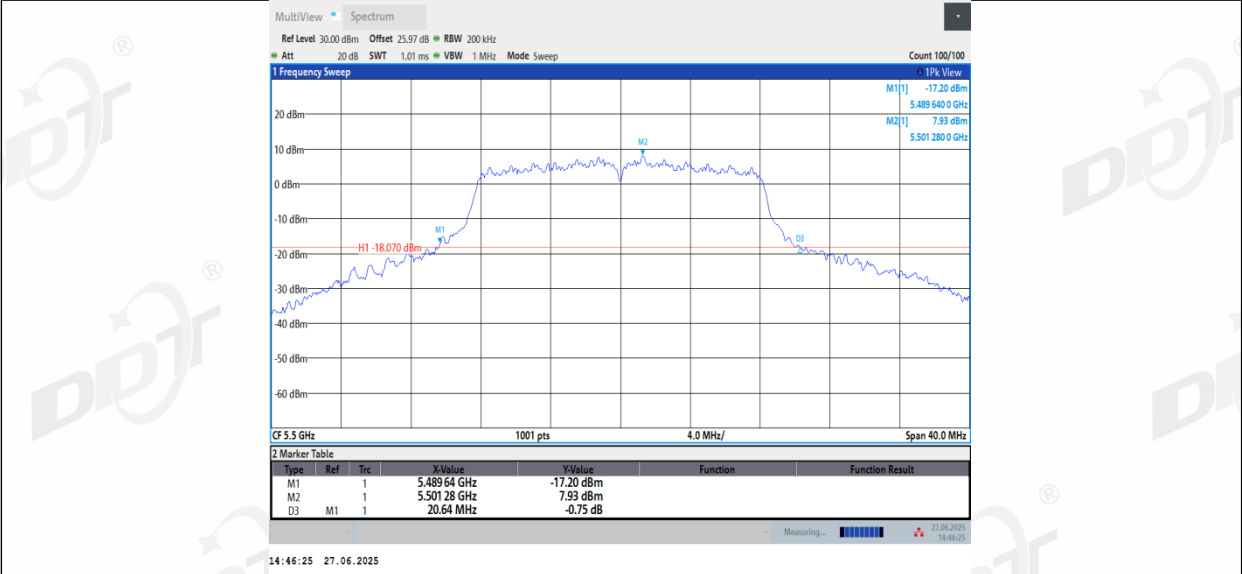
11A_Ant3_5320



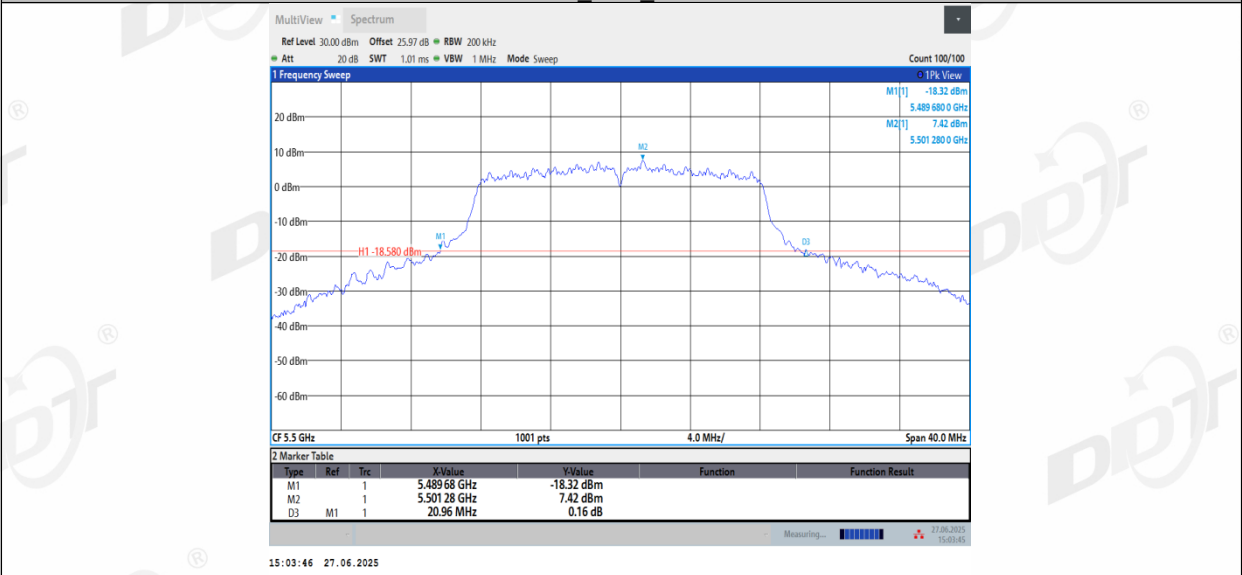
11A_Ant1_5500



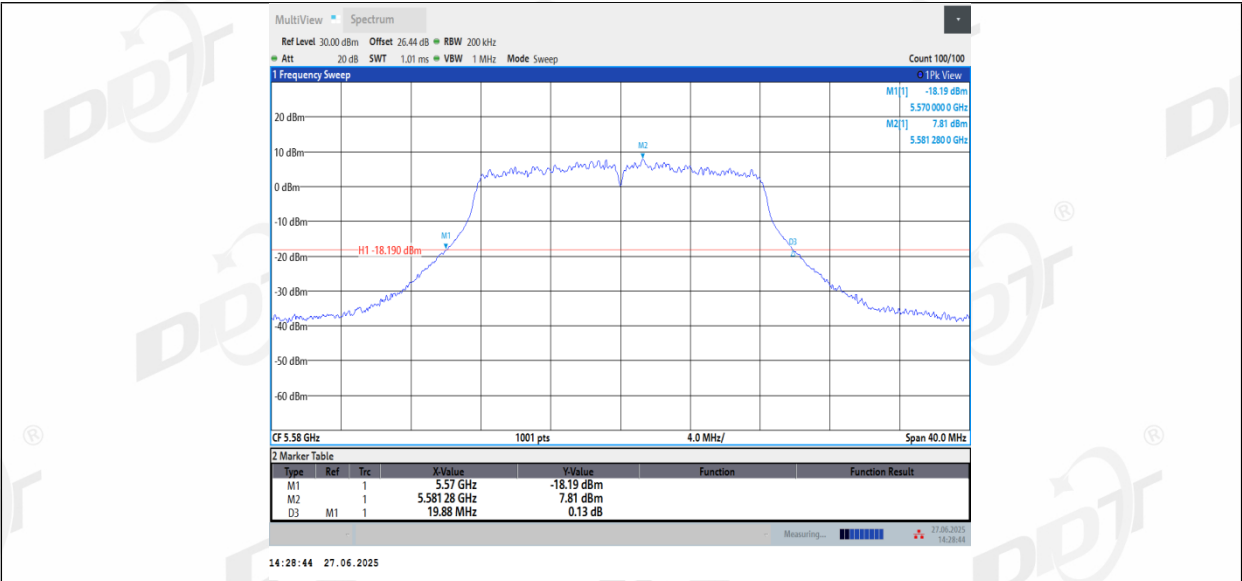
11A_Ant2_5500



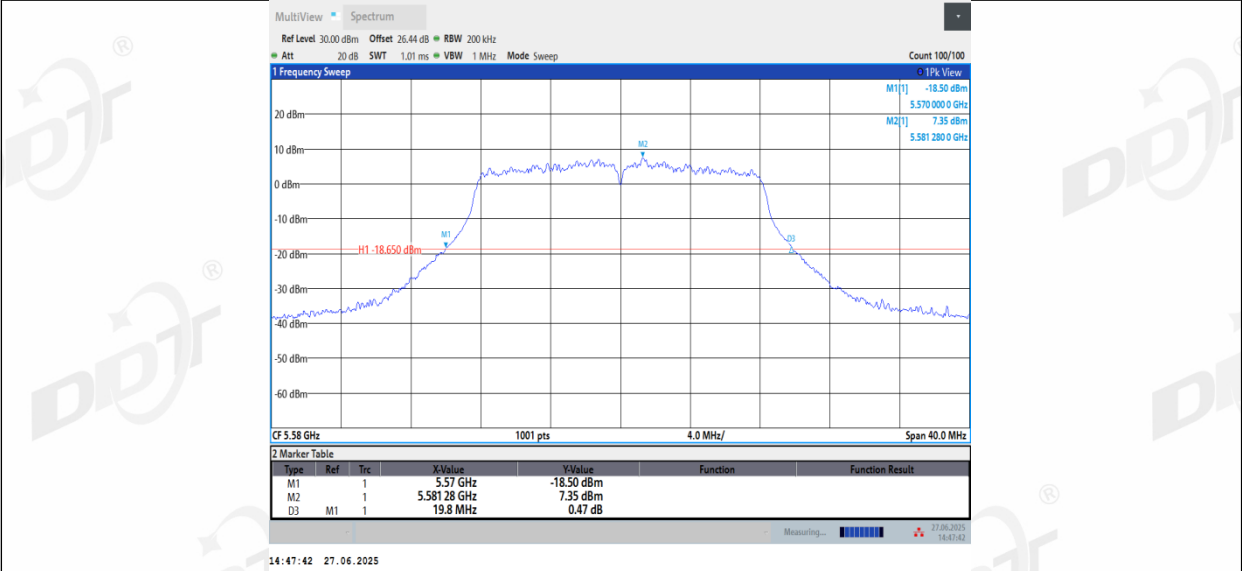
11A_Ant3_5500



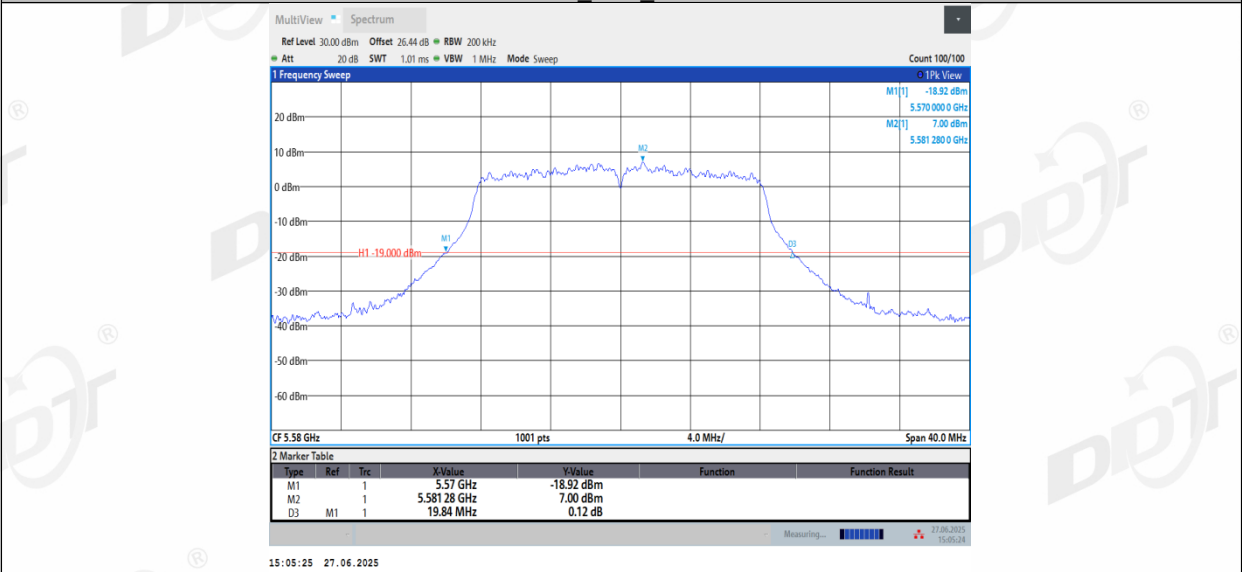
11A_Ant1_5580



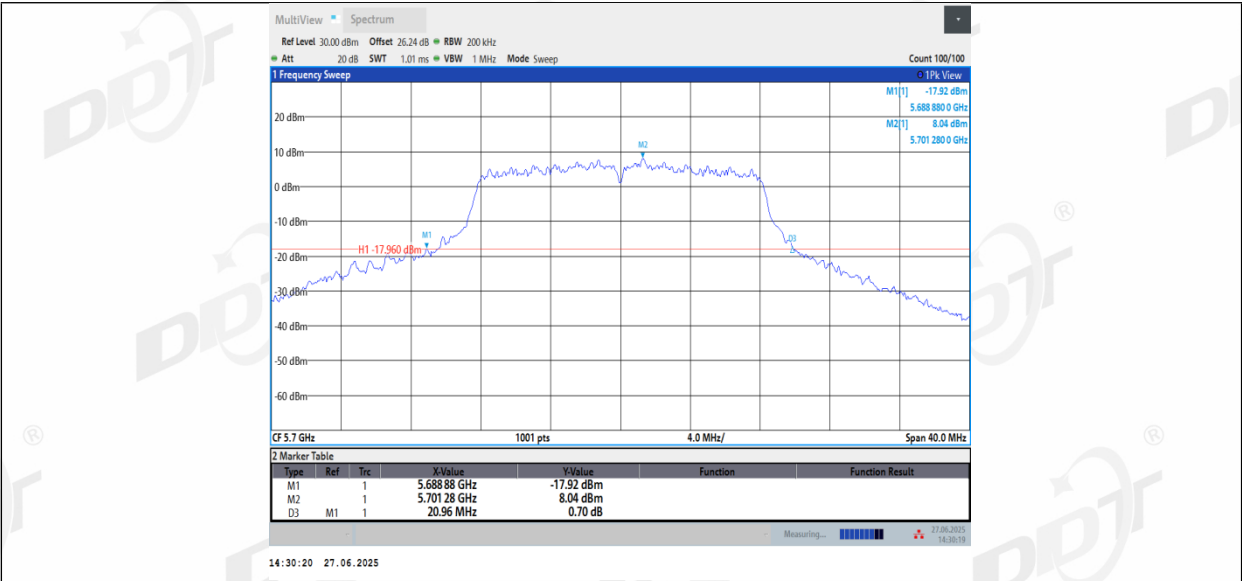
11A_Ant2_5580



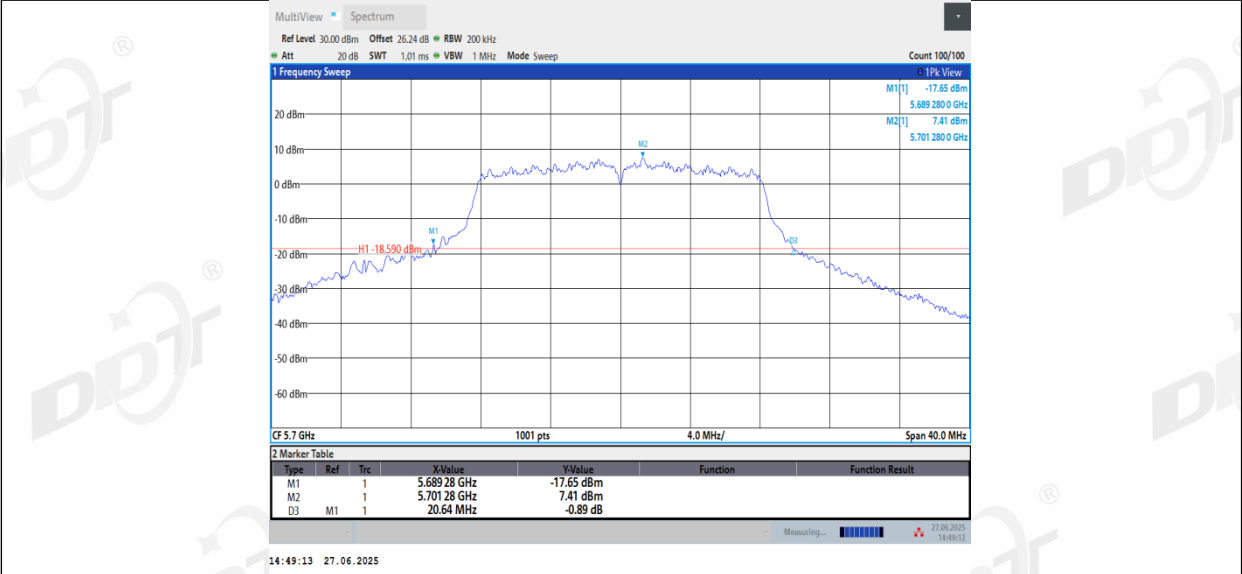
11A_Ant3_5580



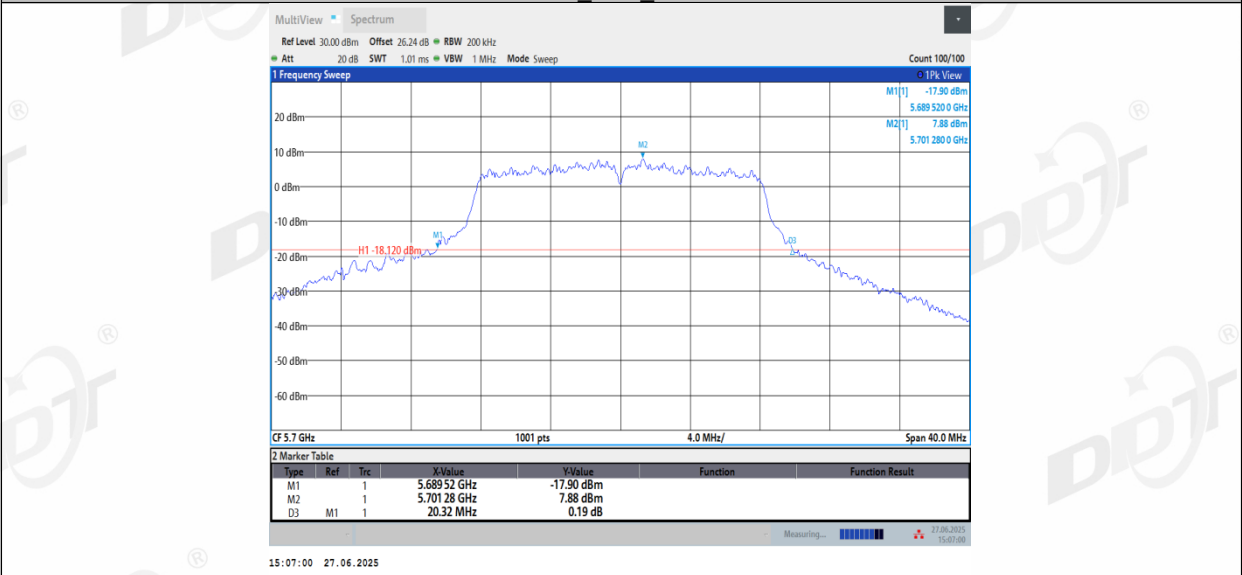
11A_Ant1_5700



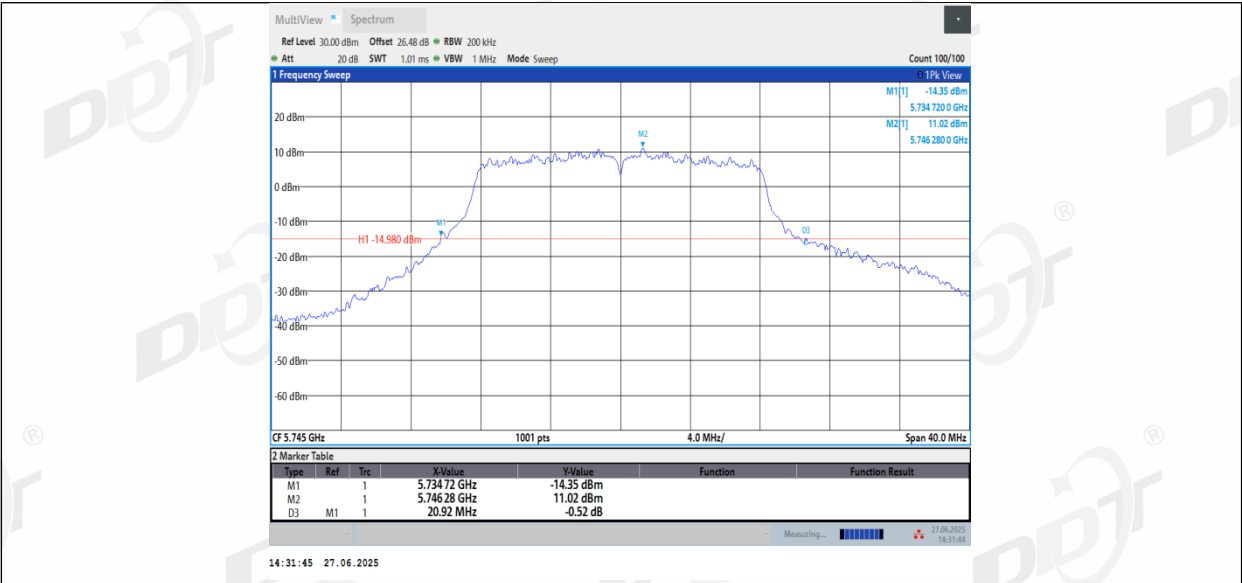
11A_Ant2_5700



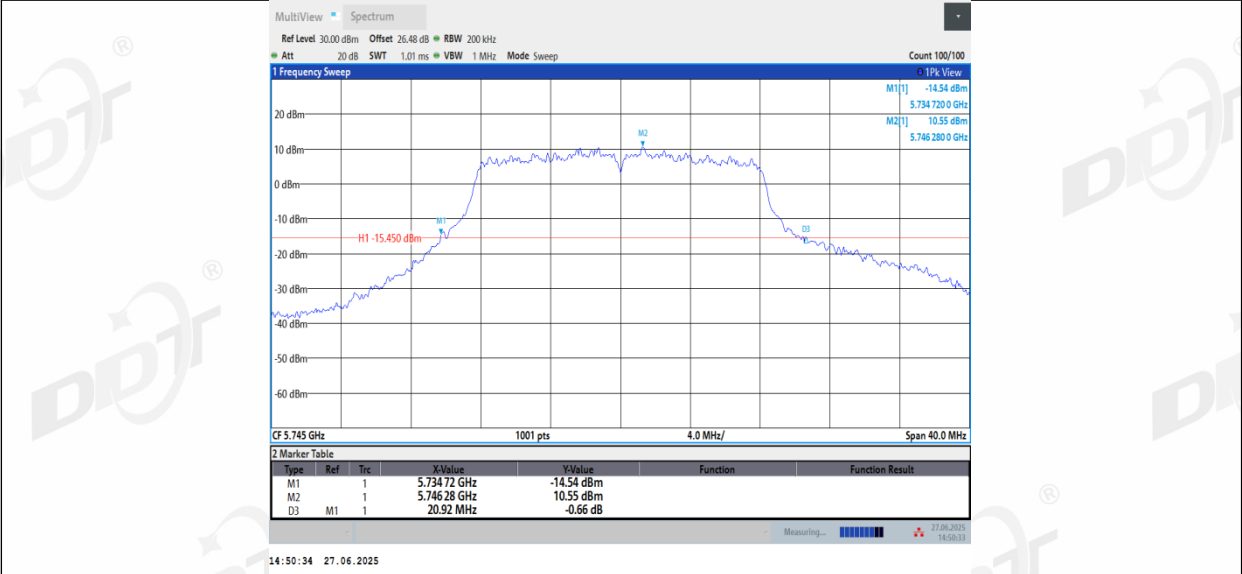
11A_Ant3_5700



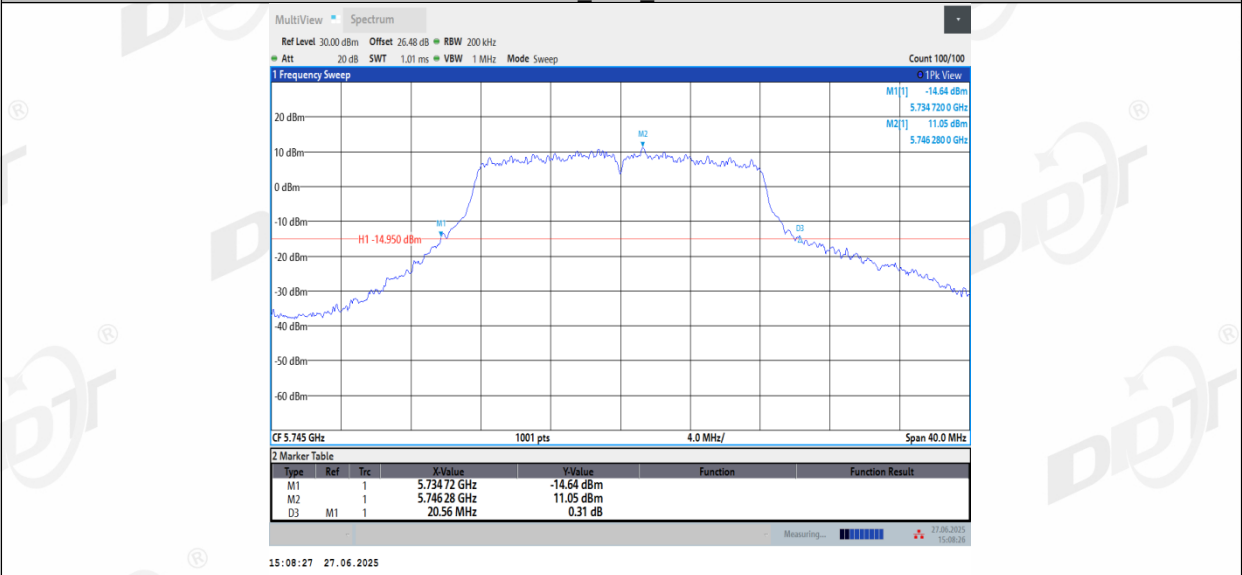
11A_Ant1_5745



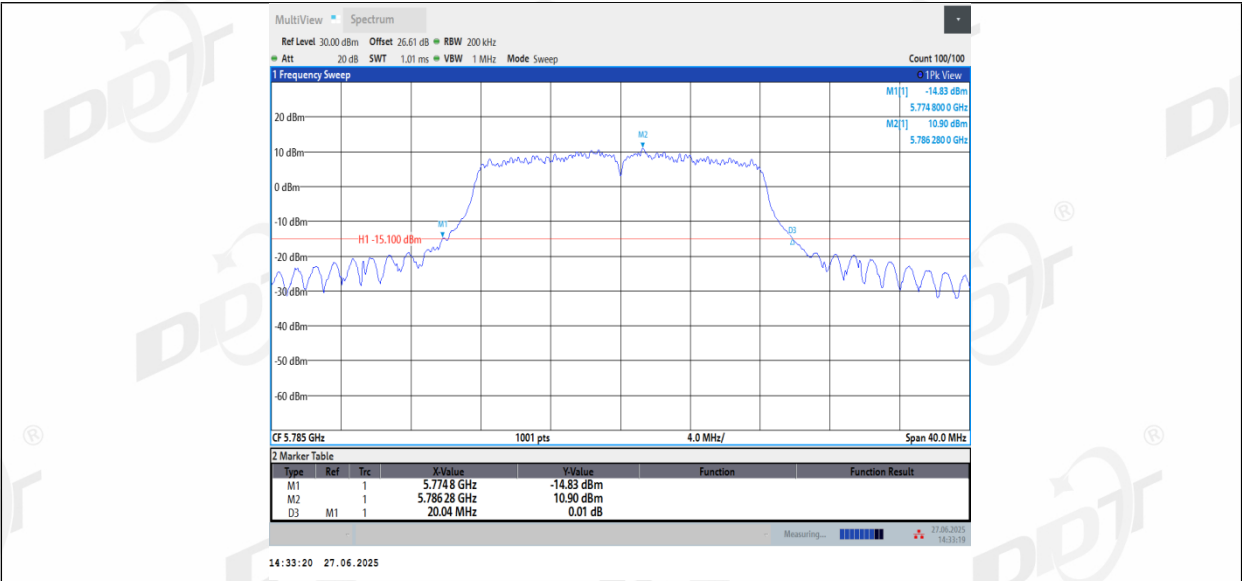
11A_Ant2_5745



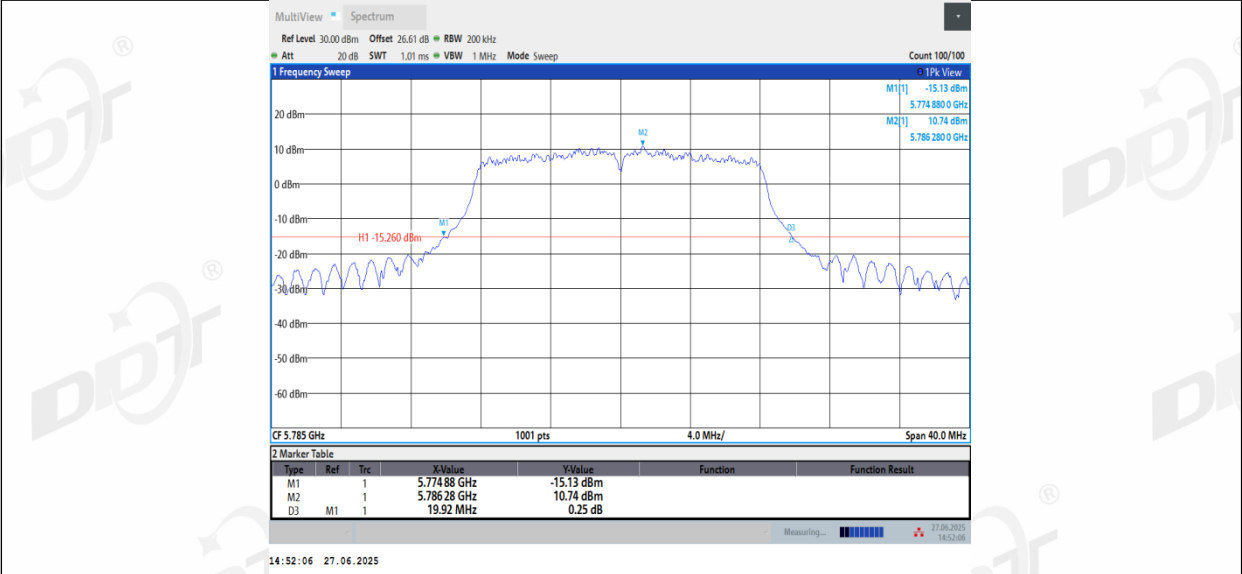
11A_Ant3_5745



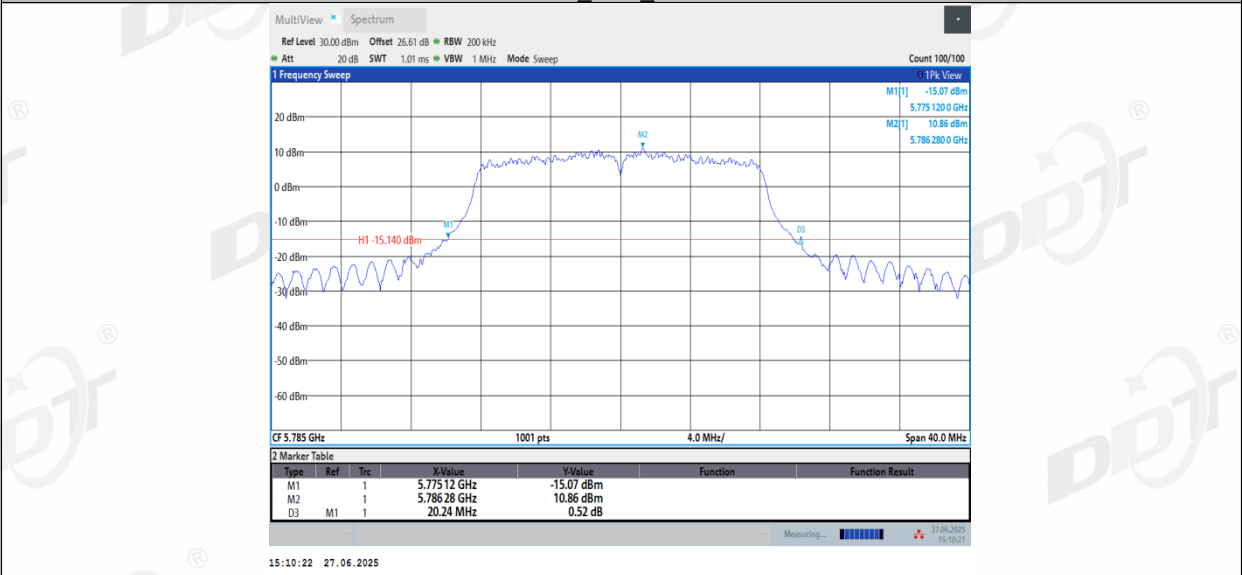
11A_Ant1_5785



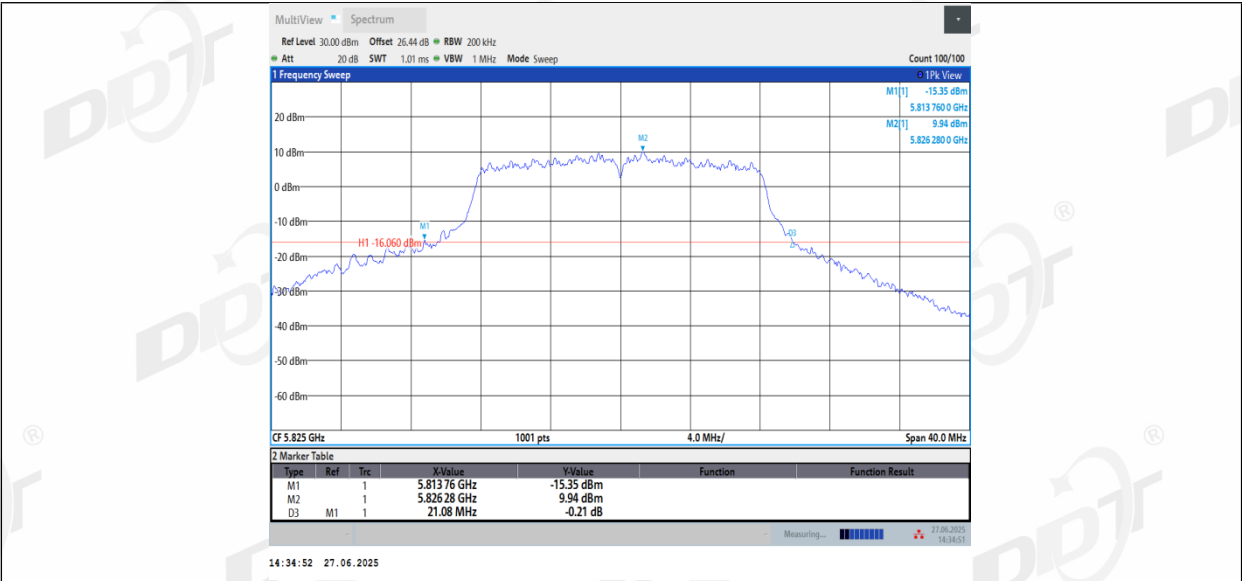
11A_Ant2_5785



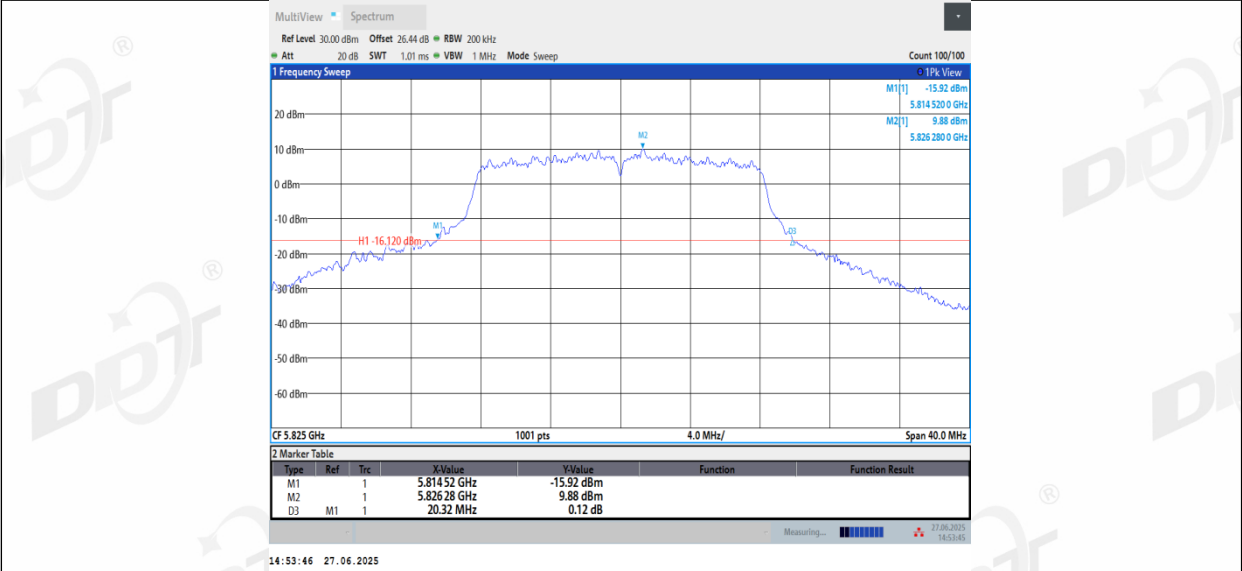
11A_Ant3_5785



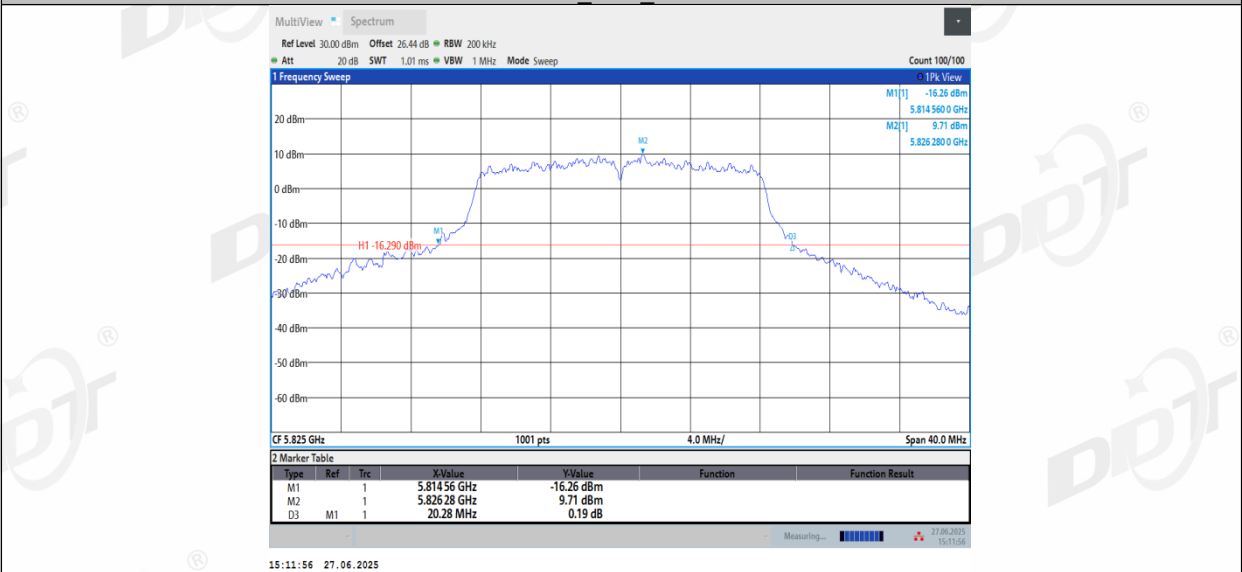
11A_Ant1_5825



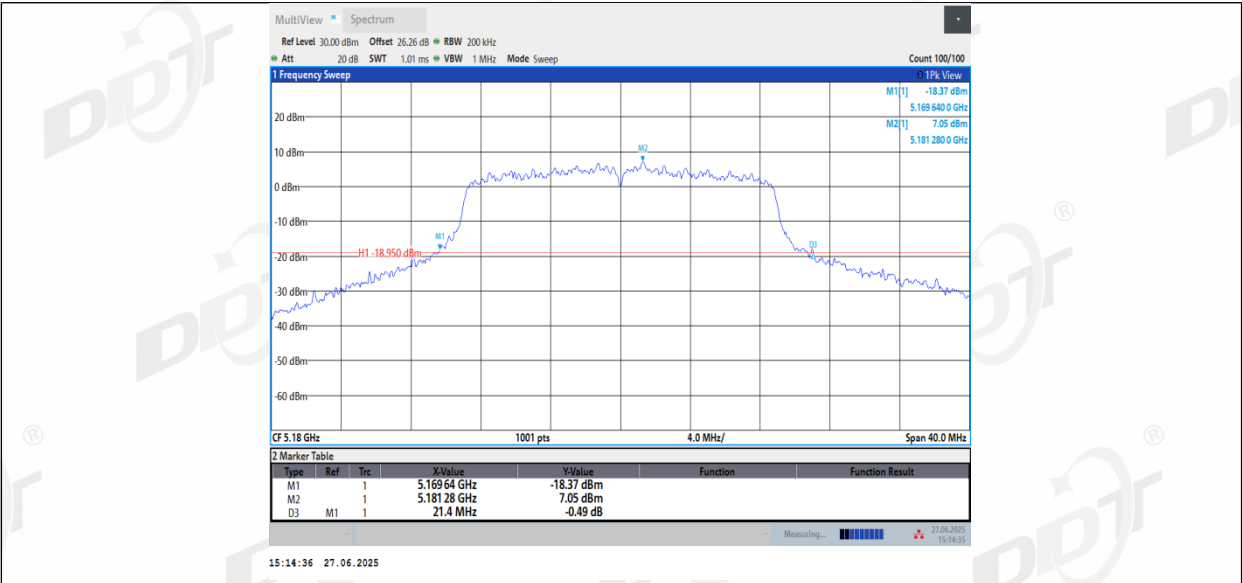
11A_Ant2_5825



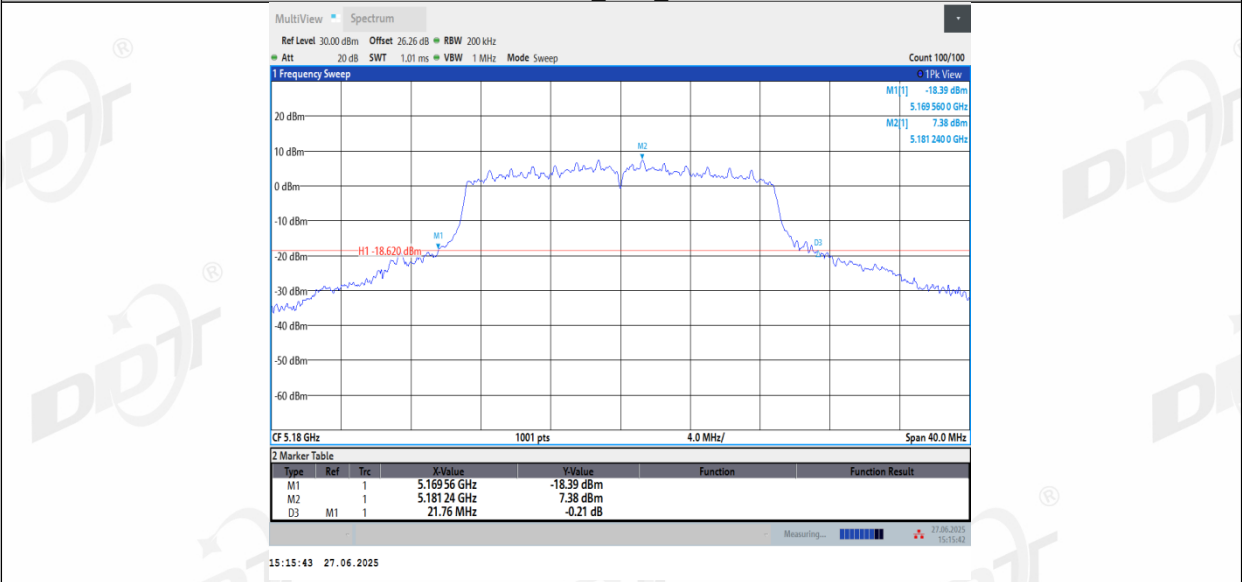
11A_Ant3_5825



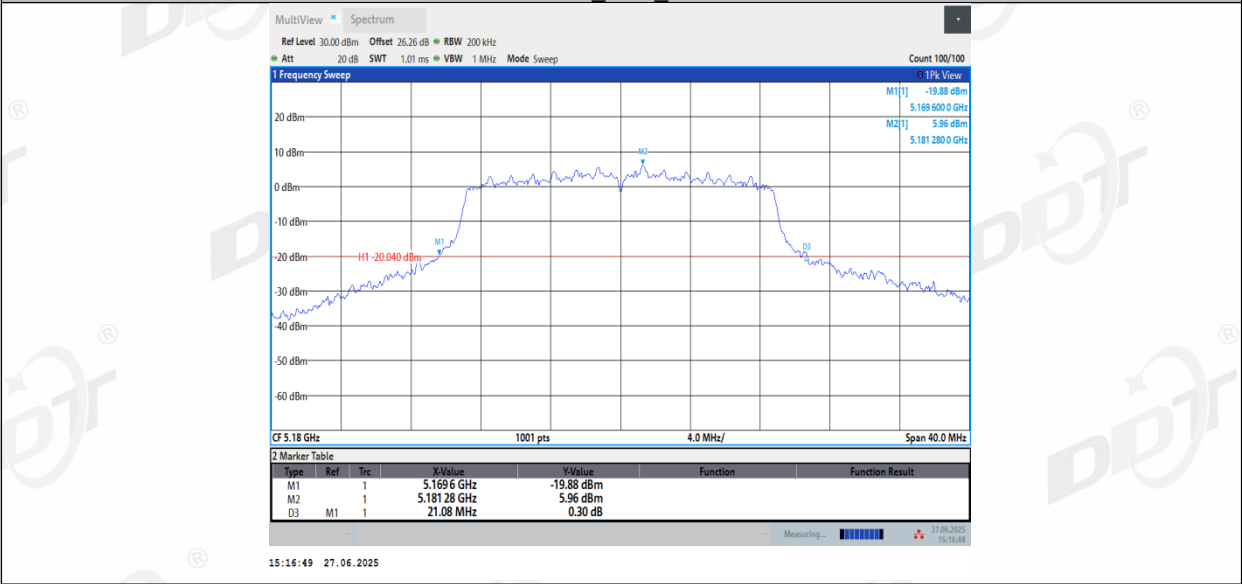
11N20_Ant1_5180



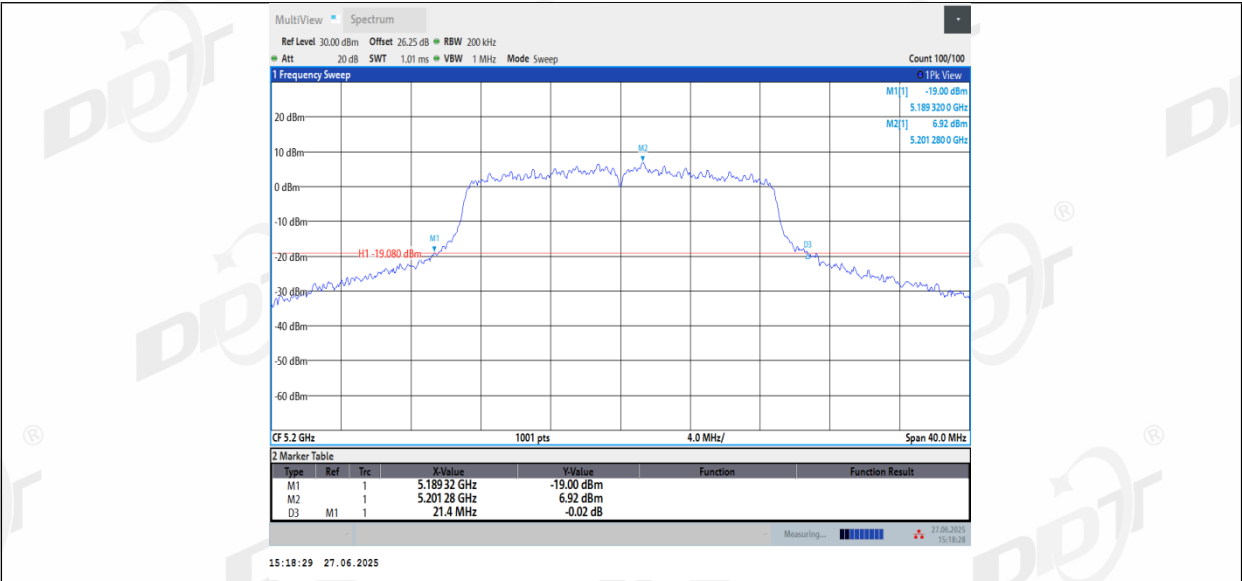
11N20_Ant2_5180



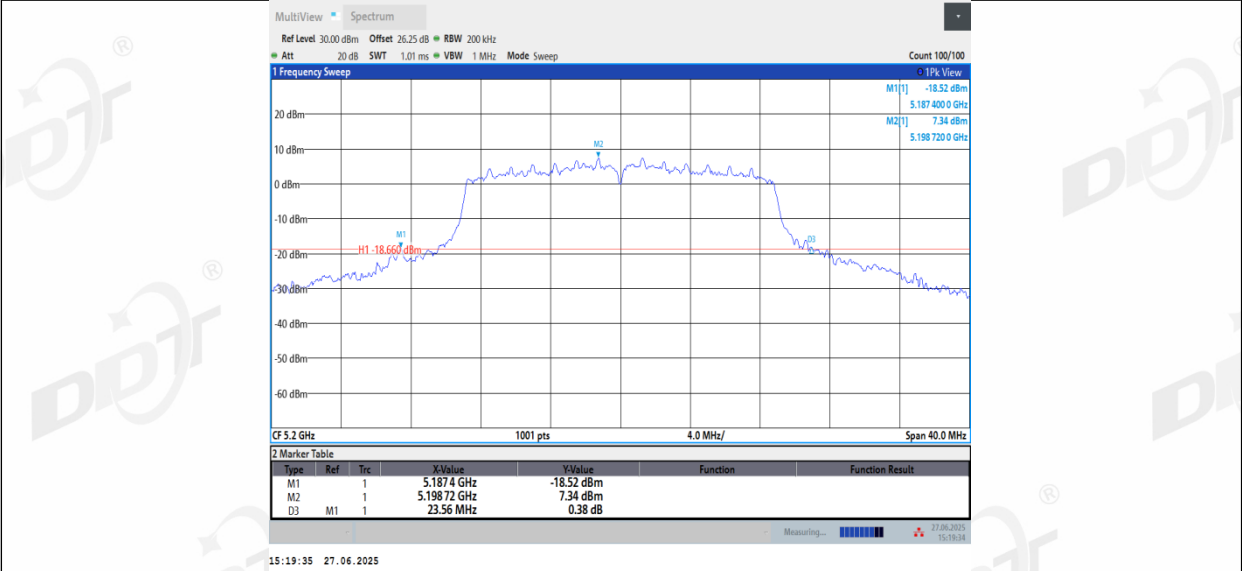
11N20_Ant3_5180



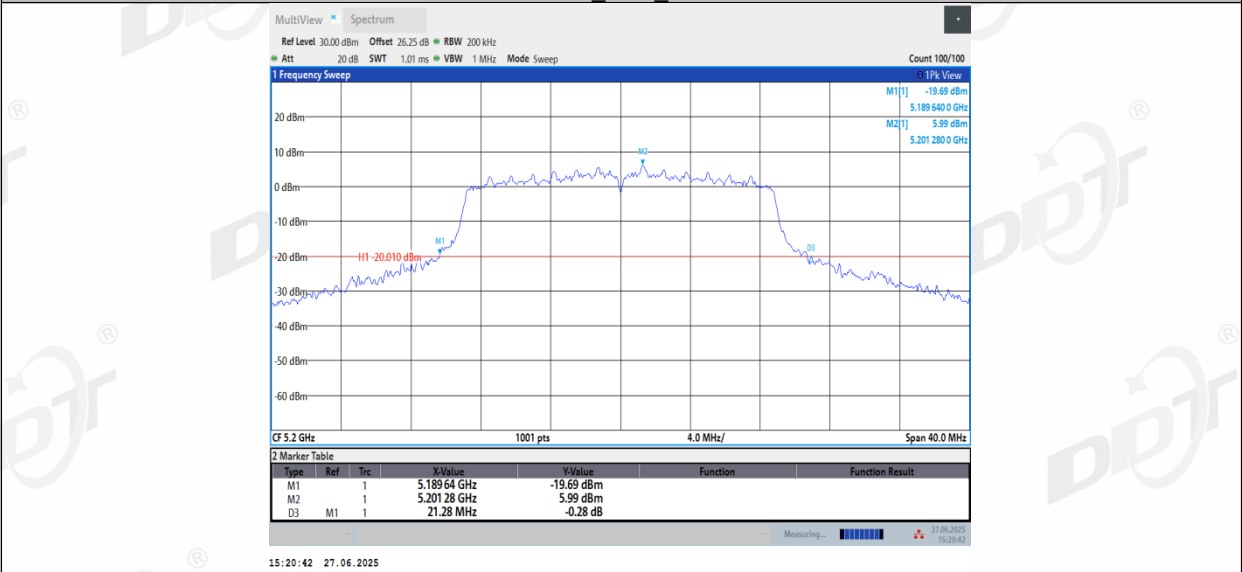
11N20_Ant1_5200



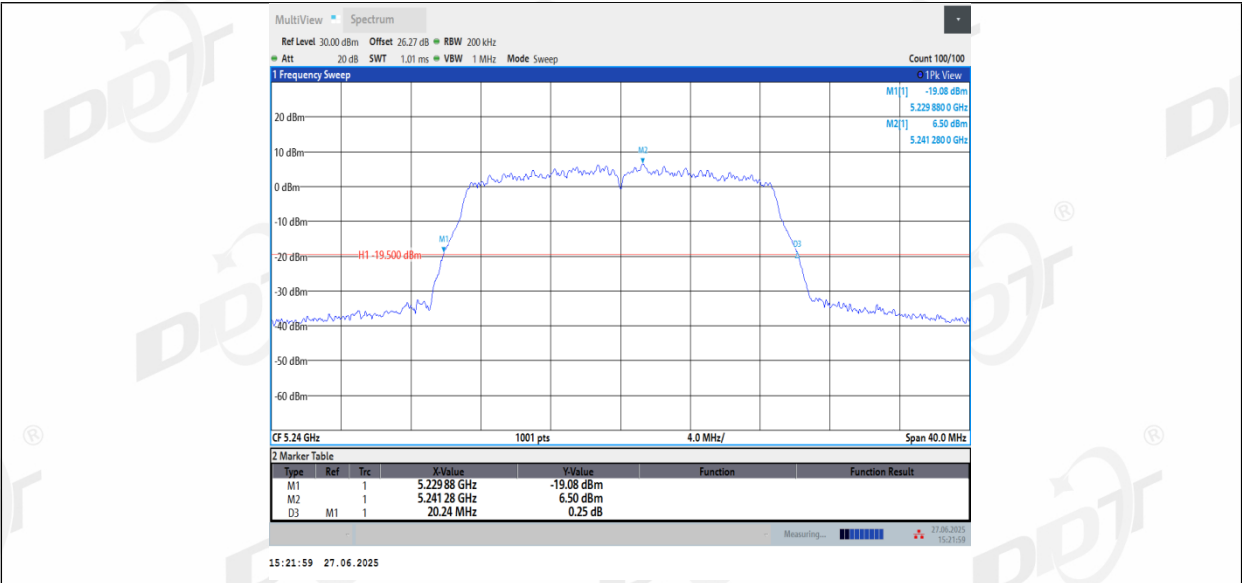
11N20_Ant2_5200



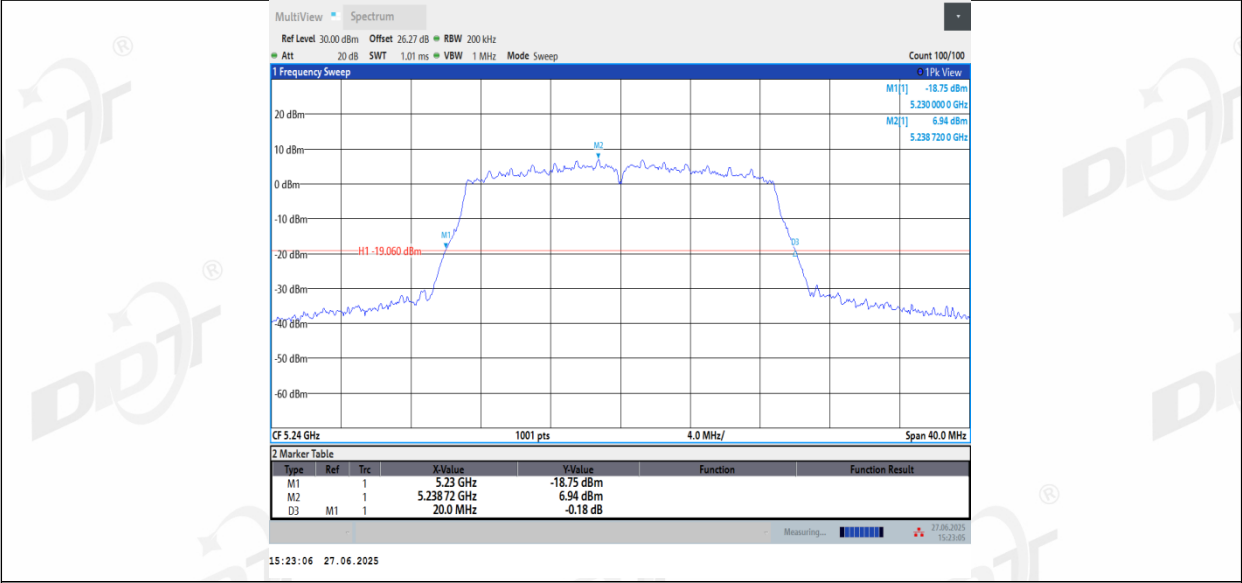
11N20_Ant3_5200



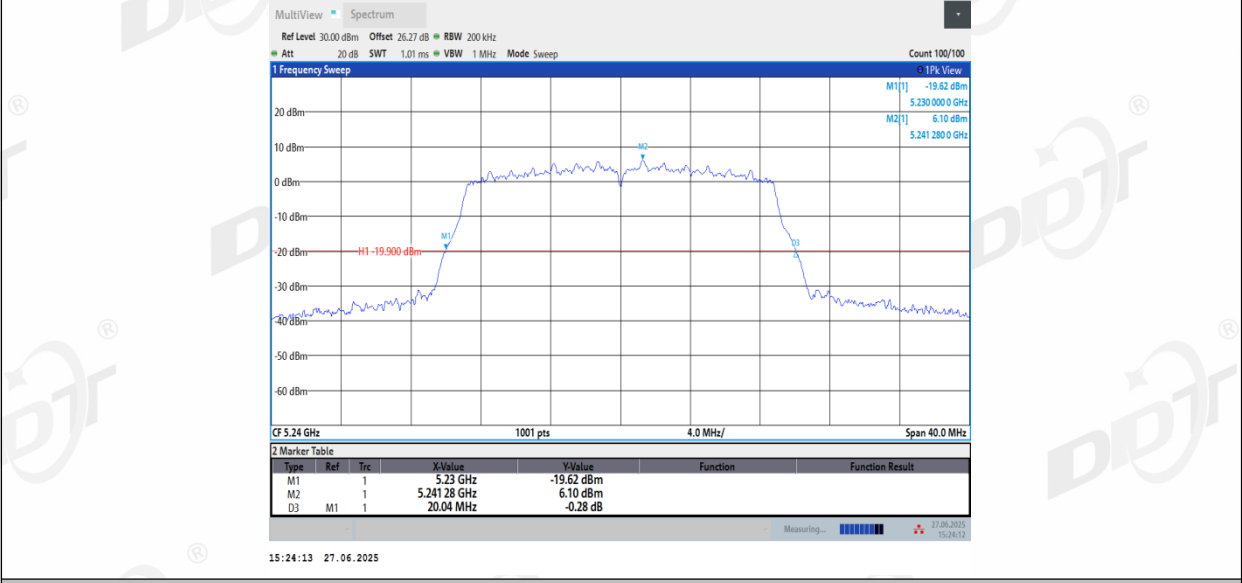
11N20_Ant1_5240



11N20_Ant2_5240



11N20_Ant3_5240



11N20_Ant1_5260