



RADIO TEST REPORT

Applicant	:	RAKOIT TECHNOLOGY(SZ) CO., LTD.
Address of Applicant	:	Floor 13th, Building 2 Block B, Baiwang R&D Building, Baimang Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province 518000, P.R.China
Manufacturer	:	RAKOIT TECHNOLOGY(SZ) CO., LTD.
Address of Manufacturer	:	Floor 13th, Building 2 Block B, Baiwang R&D Building, Baimang Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province 518000, P.R.China
Equipment under Test	:	Wireless Music Streamer
Model No.	:	LP20
FCC ID	:	2BCJV-LP20
IC	:	30908-LP20
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63.10-2020, RSS-247 Issue 4 July 24, 2025, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021), 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
Report No.	:	DDT-RE25081404-3E04
Issue Date	:	2026/01/14
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	:	RAKOIT TECHNOLOGY(SZ) CO., LTD.
Address of Applicant	:	Floor 13th, Building 2 Block B, Baiwang R&D Building, Baimang Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province 518000, P.R.China
Equipment under Test	:	Wireless Music Streamer
Model No.	:	LP20
Manufacturer	:	RAKOIT TECHNOLOGY(SZ) CO., LTD.
Address of Manufacturer	:	Floor 13th, Building 2 Block B, Baiwang R&D Building, Baimang Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province 518000, P.R.China

Test Standard Used:

47 CFR Part 15 Subpart E, ANSI C63.10-2020, RSS-247 Issue 4 July 24, 2025, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021), 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

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-RE25081404-3E04		
Date of Receipt:	2025/11/11	Date of Test:	2025/11/11 - 2026/01/05

Created: Johnson Huang	Reviewed: Tiger Mo	Approved: Damon Hu
		
2026/01/05	2026/01/14	2026/01/14

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	2026/01/14	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	Antenna Requirement	47 CFR Part 15.203, RSS-Gen clause 6.8	/	Pass
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	Pass
9	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h), RSS-247 Clause 7.3.6	/	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 Music Streamer
Model Number	: LP20
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V/2A powered by an external AC adapter
Hardware Version	: V1.0
Software Version	: V1.0
Antenna Type	: FPC
Max Antenna Gain(dBi)	: 2.86dBi

Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5720 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)

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-1							
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210	/	/
40	5200	46	5230	/	/	/	/
44	5220	/	/	/	/	/	/
48	5240	/	/	/	/	/	/
UNII-2A							
52	5260	54	5270	58	5290	/	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	5690 (Straddle)	/	/
112	5560	126	5630	/	/	/	/

116	5580	134	5670	/	/	/	/
120	5600	142	5710 (Straddle)	/	/	/	/
124	5620	/	/	/	/	/	/
128	5640	/	/	/	/	/	/
132	5660	/	/	/	/	/	/
136	5680	/	/	/	/	/	/
140	5700	/	/	/	/	/	/
144	5720 (Straddle)	/	/	/	/	/	/
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.							

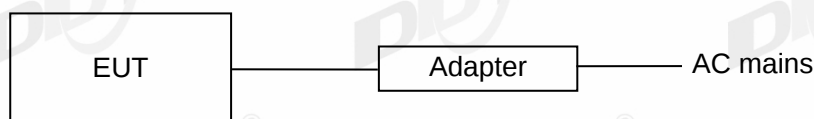
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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: SecureCRT

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	186	/	6	LCH: CH36	5180
	186	/	6	MCH: CH40	5200
	186	/	6	HCH: CH48	5240
	170	/	6	LCH: CH52	5260
	170	/	6	MCH: CH56	5280
	170	/	6	HCH: CH64	5320
	144	/	6	LCH: CH100	5500
	144	/	6	MCH: CH116	5580
	144	/	6	HCH: CH140	5700
	144	/	6	Straddle: CH144	5720
	90	/	6	LCH: CH149	5745
	90	/	6	MCH: CH157	5785
	90	/	6	HCH: CH165	5825
IEEE 802.11n HT20	186	/	MCS 0	LCH: CH36	5180
	186	/	MCS 0	MCH: CH40	5200
	186	/	MCS 0	HCH: CH48	5240
	176	/	MCS 0	LCH: CH52	5260
	176	/	MCS 0	MCH: CH56	5280
	176	/	MCS 0	HCH: CH64	5320
	154	/	MCS 0	LCH: CH100	5500
	154	/	MCS 0	MCH: CH116	5580
	154	/	MCS 0	HCH: CH140	5700
	154	/	MCS 0	Straddle: CH144	5720
	90	/	MCS 0	LCH: CH149	5745
	90	/	MCS 0	MCH: CH157	5785
	90	/	MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	145	/	MCS 0	LCH: CH38	5190
	145	/	MCS 0	HCH: CH46	5230
	145	/	MCS 0	LCH: CH54	5270
	145	/	MCS 0	HCH: CH62	5310
	145	/	MCS 0	LCH: CH102	5510
	145	/	MCS 0	MCH: CH110	5550
	145	/	MCS 0	HCH: CH134	5670
	145	/	MCS 0	Straddle: CH142	5710

IEEE 802.11ac VHT20	96	/	MCS 0	LCH: CH151	5755
	96	/	MCS 0	HCH: CH159	5795
	180	/	MCS 8	LCH: CH36	5180
	180	/	MCS 8	MCH: CH40	5200
	180	/	MCS 8	HCH: CH48	5240
	170	/	MCS 8	LCH: CH52	5260
	170	/	MCS 8	MCH: CH56	5280
	170	/	MCS 8	HCH: CH64	5320
	154	/	MCS 8	LCH: CH100	5500
	154	/	MCS 8	MCH: CH116	5580
	154	/	MCS 8	HCH: CH140	5700
	154	/	MCS 8	Straddle: CH144	5720
	90	/	MCS 8	LCH: CH149	5745
	90	/	MCS 8	MCH: CH157	5785
	90	/	MCS 8	HCH: CH165	5825
IEEE 802.11 ac VHT40	140	/	MCS 8	LCH: CH38	5190
	140	/	MCS 8	HCH: CH46	5230
	140	/	MCS 8	LCH: CH54	5270
	140	/	MCS 8	HCH: CH62	5310
	140	/	MCS 8	LCH: CH102	5510
	140	/	MCS 8	MCH: CH110	5550
	140	/	MCS 8	HCH: CH134	5670
	140	/	MCS 8	Straddle: CH142	5710
	90	/	MCS 8	LCH: CH159	5755
	90	/	MCS 8	HCH: CH36	5795
	90	/	MCS 0	CH42	5210
IEEE 802.11ac VHT80	90	/	MCS 0	CH58	5290
	90	/	MCS 0	LCH: CH106	5530
	90	/	MCS 0	HCH: CH122	5610
	90	/	MCS 0	Straddle: CH138	5690
	90	/	MCS 0	CH155	5775
	90	/	MCS 0		

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

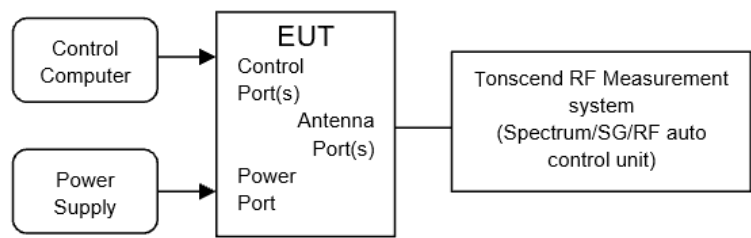
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	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)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	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/ 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.

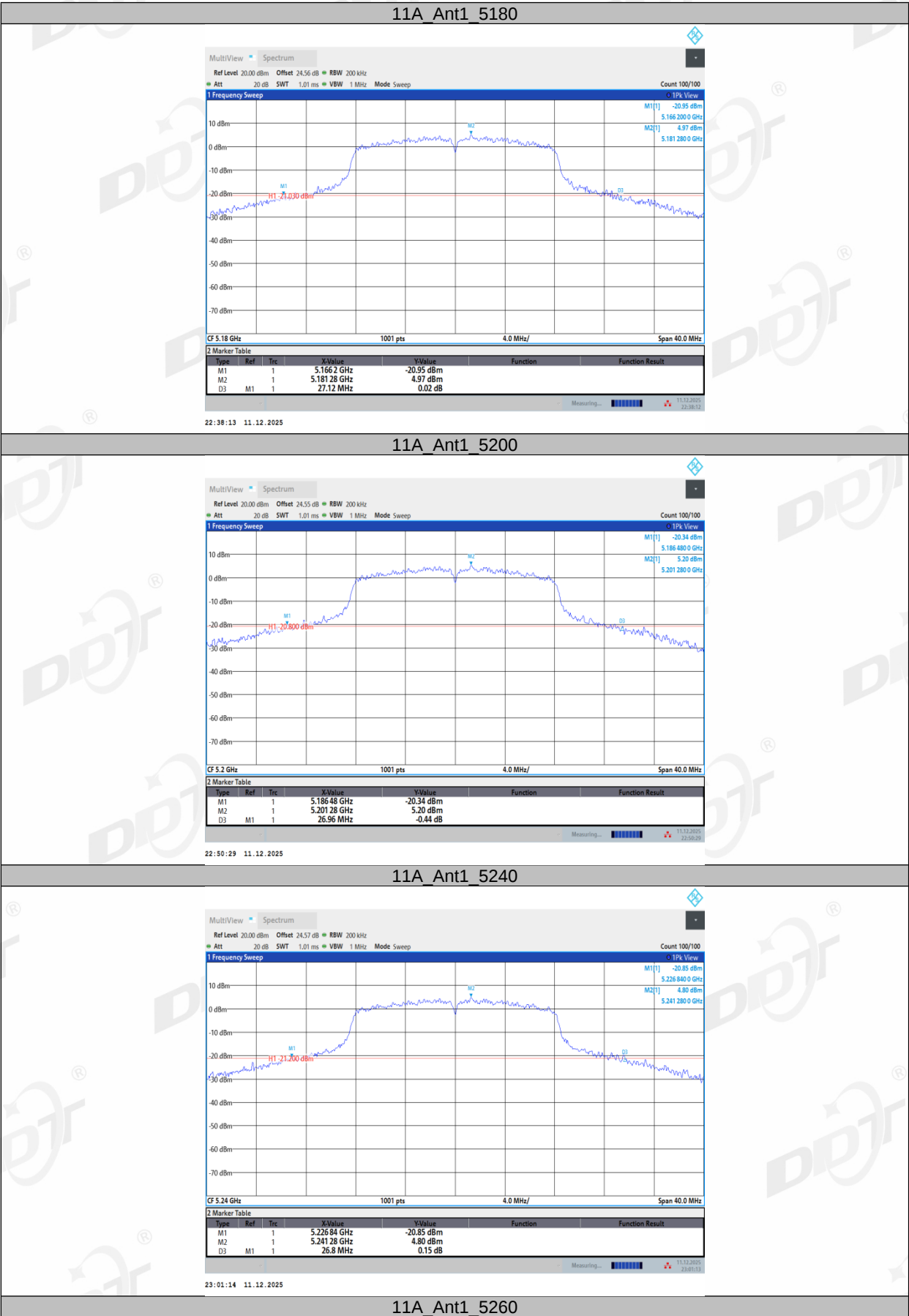
4.4. Test result

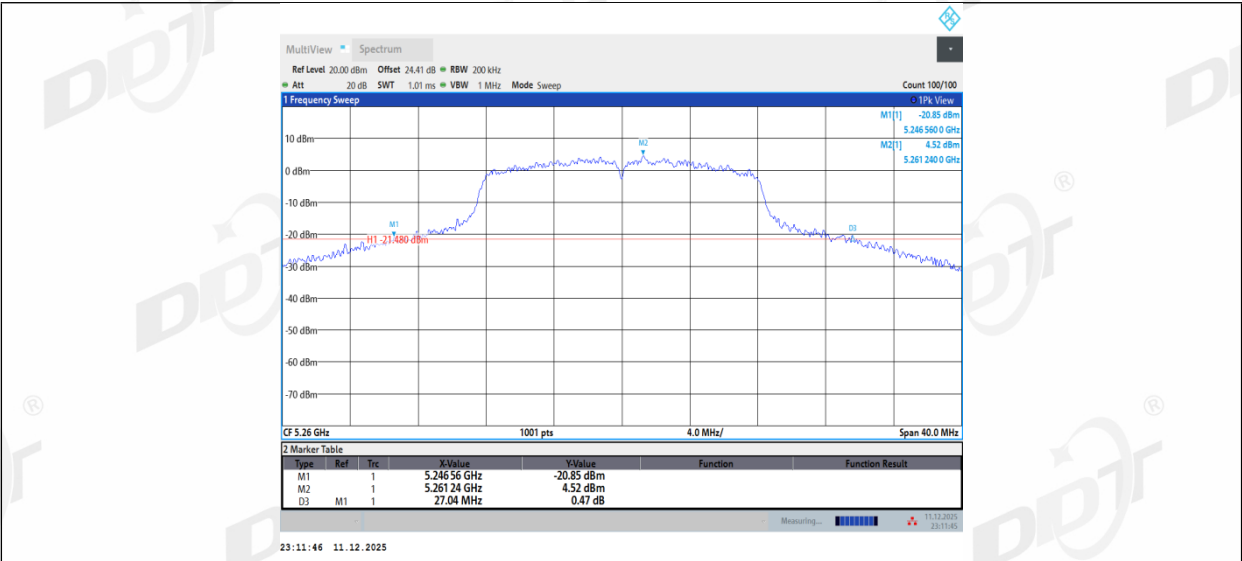
Test Engineer:	Tyang	Test Site:	RF Measurement System 4#
Ambient Condition:	25.6°C,49.8%RH	Test Date:	2025.12.6-2025.12.31
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25081404-004

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	27.12	5166.20	5193.32	---	---
		5200	26.96	5186.48	5213.44	---	---
		5240	26.80	5226.84	5253.64	---	---
		5260	27.04	5246.56	5273.60	---	---
		5280	27.72	5266.60	5294.32	---	---
		5320	26.08	5307.72	5333.80	---	---
		5500	27.80	5486.56	5514.36	---	---
		5580	28.40	5565.52	5593.92	---	---
		5700	28.16	5685.84	5714.00	---	---
		5720	30.20	5704.20	5734.40	---	---
		5720 UNII-2C	20.8	5704.20	5725	---	---
		5720 UNII-3	9.4	5725	5734.40	---	---
		5745	28.92	5730.48	5759.40	---	---
		5785	29.08	5770.56	5799.64	---	---
		5825	28.80	5810.24	5839.04	---	---
11N20SISO	Ant1	5180	28.36	5165.80	5194.16	---	---
		5200	27.36	5186.64	5214.00	---	---
		5240	28.16	5226.20	5254.36	---	---
		5260	26.88	5246.28	5273.16	---	---
		5280	25.92	5266.96	5292.88	---	---
		5320	27.32	5305.92	5333.24	---	---
		5500	26.76	5487.48	5514.24	---	---
		5580	26.56	5566.16	5592.72	---	---
		5700	30.04	5684.64	5714.68	---	---
		5720	30.84	5703.28	5734.12	---	---
		5720 UNII-2C	21.72	5703.28	5725	---	---
		5720 UNII-3	9.12	5725	5734.12	---	---
		5745	29.08	5730.56	5759.64	---	---
		5785	30.12	5770.12	5800.24	---	---
		5825	28.72	5810.56	5839.28	---	---
11N40SISO	Ant1	5190	45.44	5167.68	5213.12	---	---
		5230	45.84	5207.52	5253.36	---	---
		5270	46.88	5247.36	5294.24	---	---
		5310	46.24	5287.04	5333.28	---	---
		5510	47.52	5487.28	5534.80	---	---
		5550	46.96	5526.16	5573.12	---	---
		5670	47.52	5645.68	5693.20	---	---
		5710	65.76	5681.36	5747.12	---	---
		5710 UNII-2C	43.64	5681.36	5725	---	---
		5710 UNII-3	22.12	5725	5747.12	---	---
		5755	76.56	5718.36	5794.92	---	---
		5795	78.16	5756.36	5834.52	---	---
11AC20SISO	Ant1	5180	24.92	5167.56	5192.48	---	---
		5200	28.48	5186.04	5214.52	---	---
		5240	27.00	5227.32	5254.32	---	---
		5260	24.40	5247.44	5271.84	---	---
		5280	26.12	5267.64	5293.76	---	---
		5320	27.40	5306.12	5333.52	---	---
		5500	26.32	5486.80	5513.12	---	---
		5580	28.52	5564.68	5593.20	---	---
		5700	29.20	5685.80	5715.00	---	---
		5720	29.84	5703.36	5733.20	---	---
		5720 UNII-2C	21.64	5703.36	5725	---	---
		5720 UNII-3	8.2	5725	5733.20	---	---
		5745	28.00	5731.32	5759.32	---	---

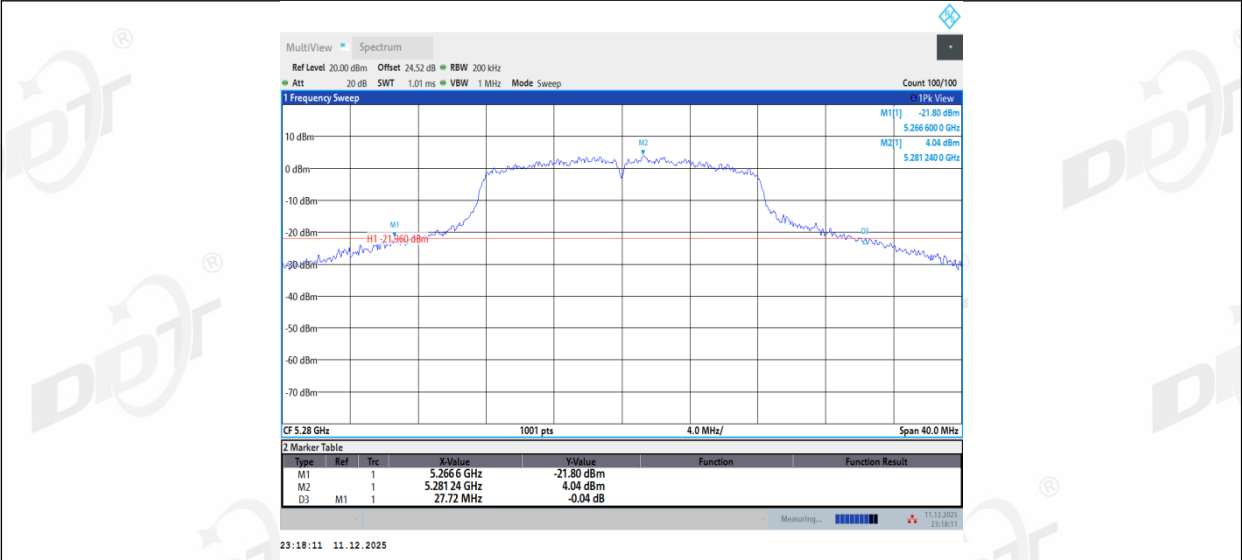
11AC40SIS O	Ant1	5785	29.96	5768.92	5798.88	---	---
		5825	29.40	5810.92	5840.32	---	---
		5190	44.56	5168.40	5212.96	---	---
		5230	46.72	5206.72	5253.44	---	---
		5270	46.80	5245.76	5292.56	---	---
		5310	45.36	5287.68	5333.04	---	---
		5510	44.96	5487.76	5532.72	---	---
		5550	47.20	5525.52	5572.72	---	---
		5670	47.92	5645.28	5693.20	---	---
		5710	59.68	5682.08	5741.76	---	---
		5710 UNII-2C	42.92	5682.08	5725	---	---
		5710 UNII-3	16.76	5725	5741.76	---	---
		5755	77.36	5717.16	5794.52	---	---
		5795	76.88	5755.80	5832.68	---	---
11AC80SIS O	Ant1	5210	136.80	5140.08	5276.88	---	---
		5290	82.24	5248.88	5331.12	---	---
		5530	82.24	5488.72	5570.96	---	---
		5610	106.40	5544.56	5650.96	---	---
		5690	159.68	5610.16	5769.84	---	---
		5690 UNII-2C	114.84	5610.16	5725	---	---
		5690 UNII-3	44.84	5725	5769.84	---	---
		5775	159.36	5695.16	5854.52	---	---

4.5. Test graphs

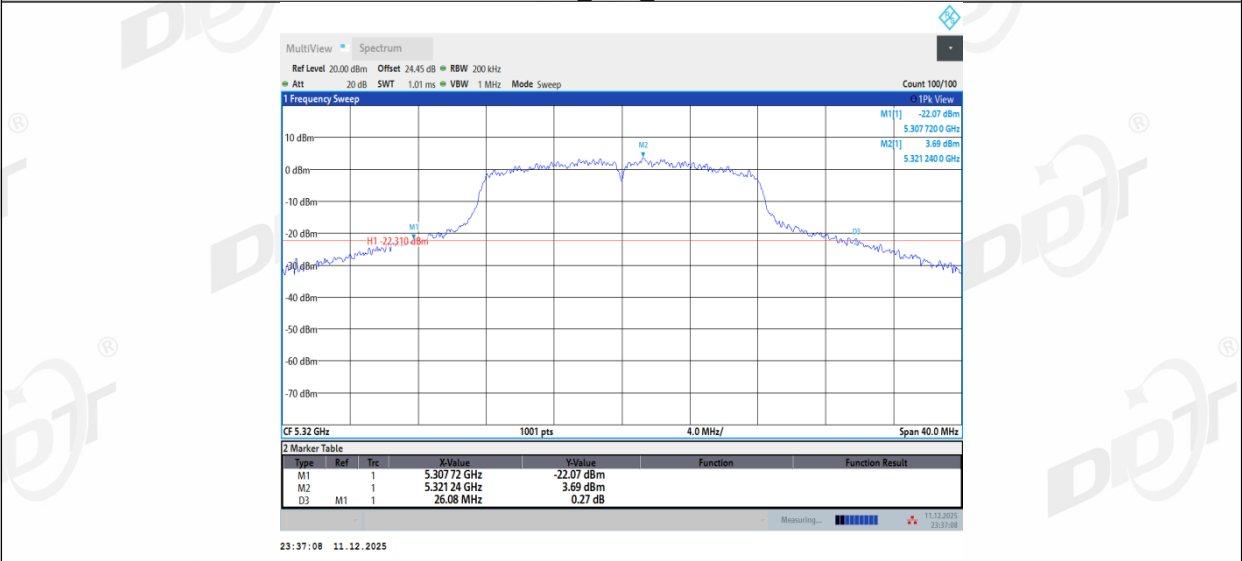




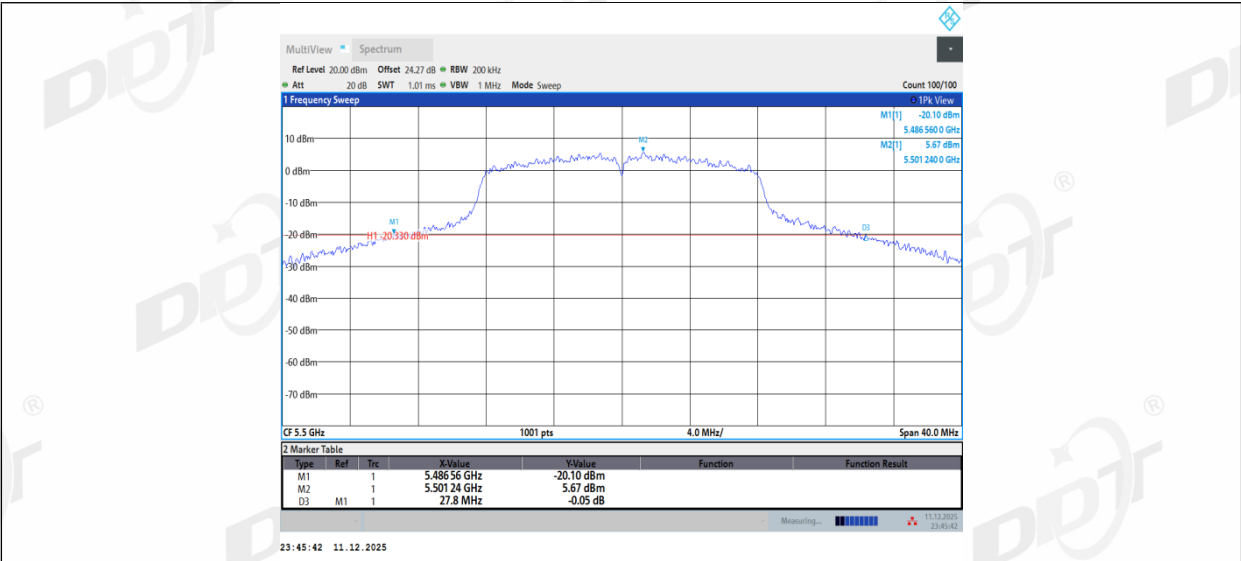
11A_Ant1_5280



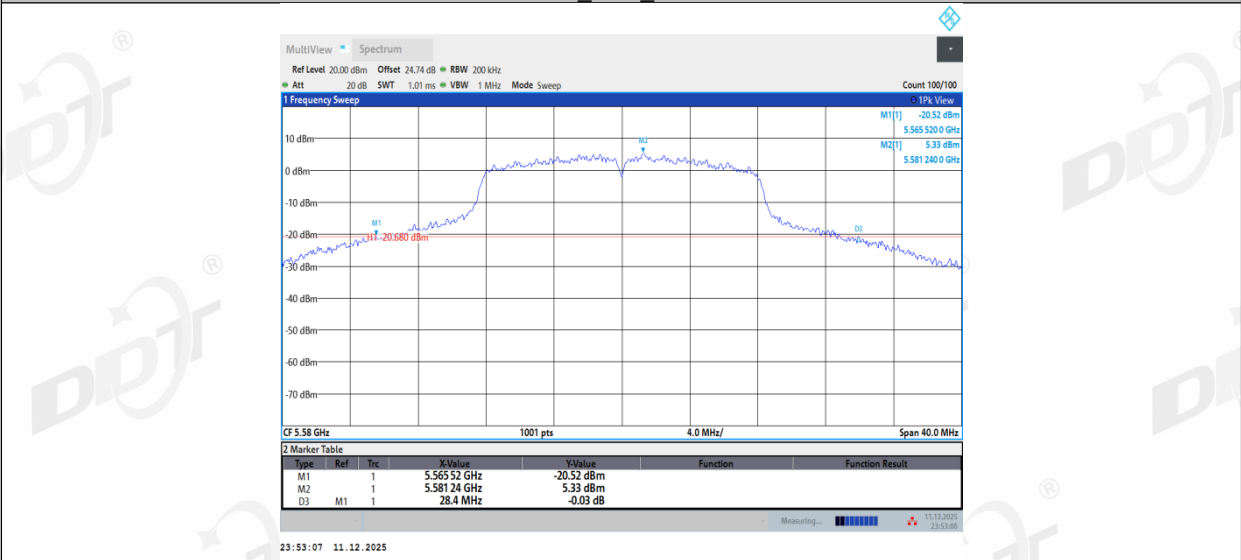
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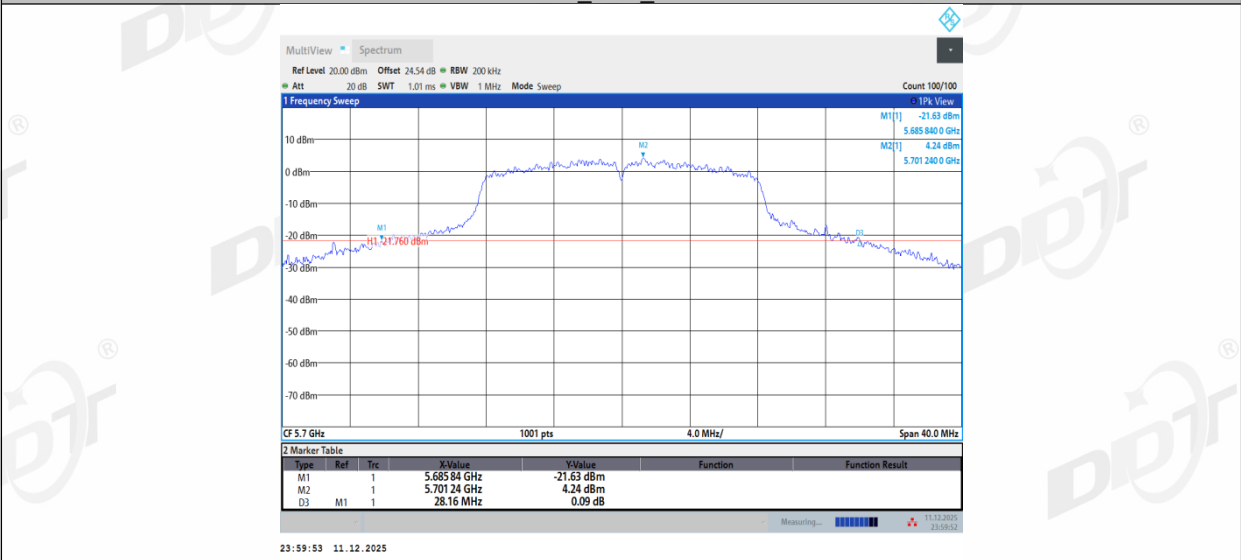
11A_Ant1_5500



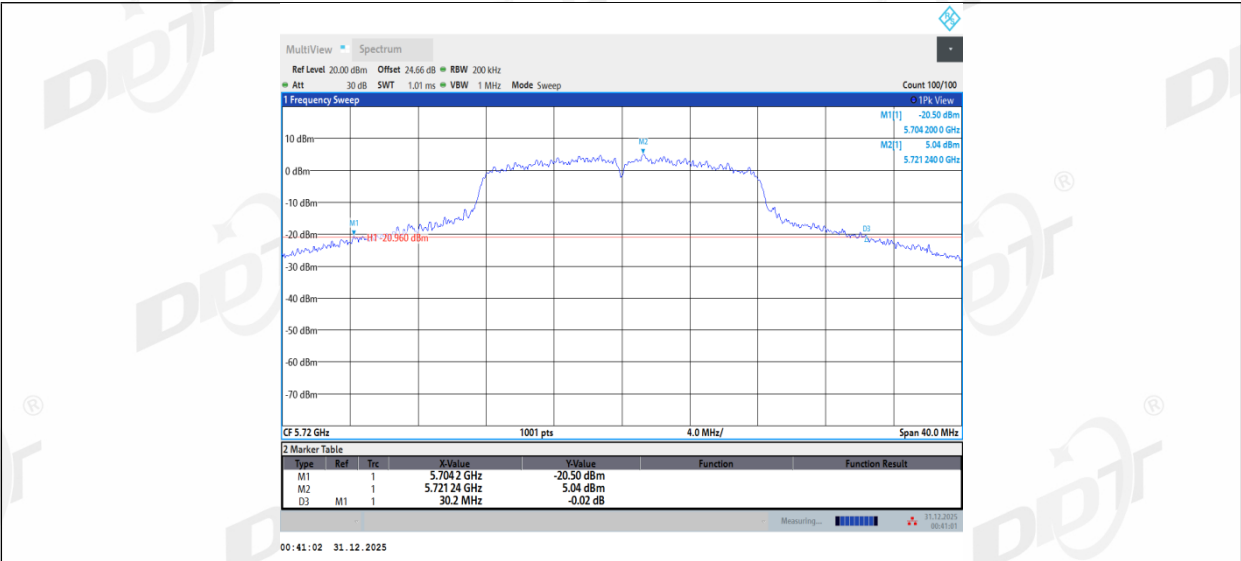
11A_Ant1_5580



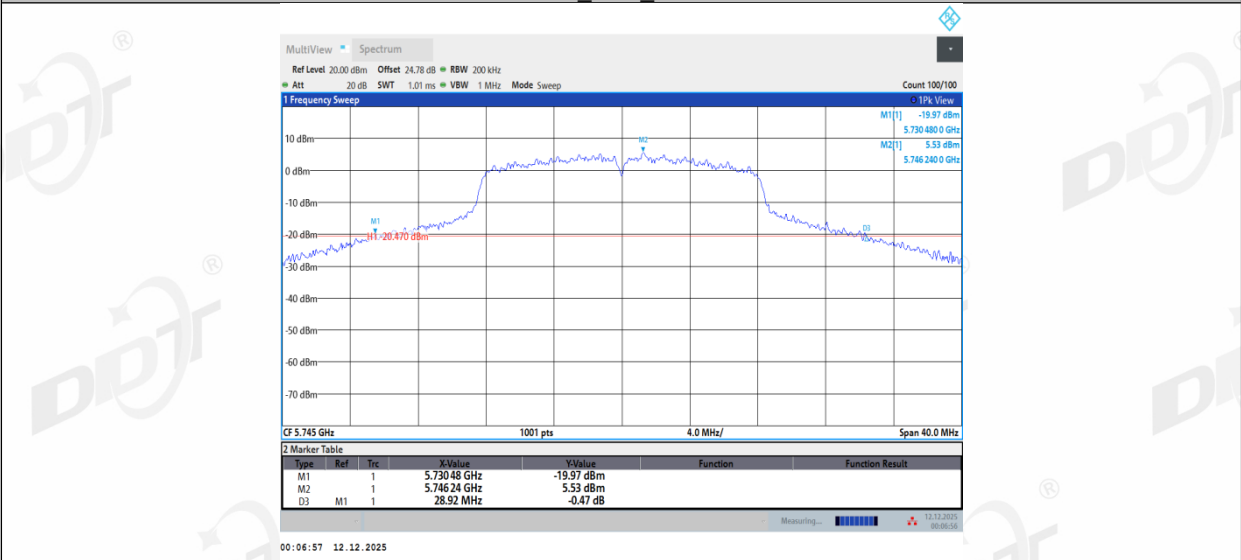
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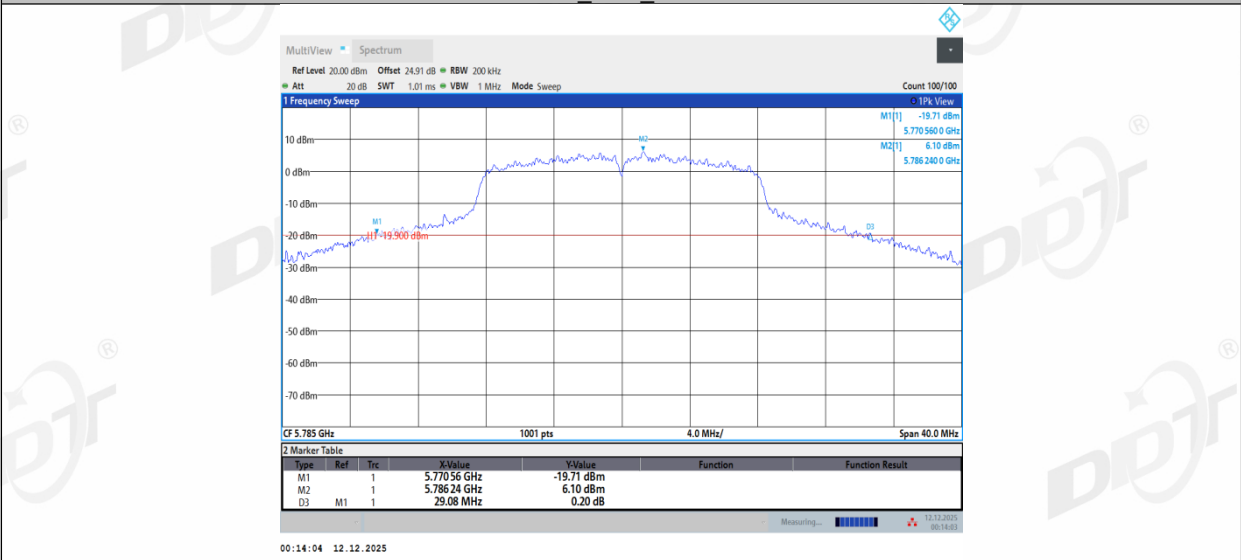
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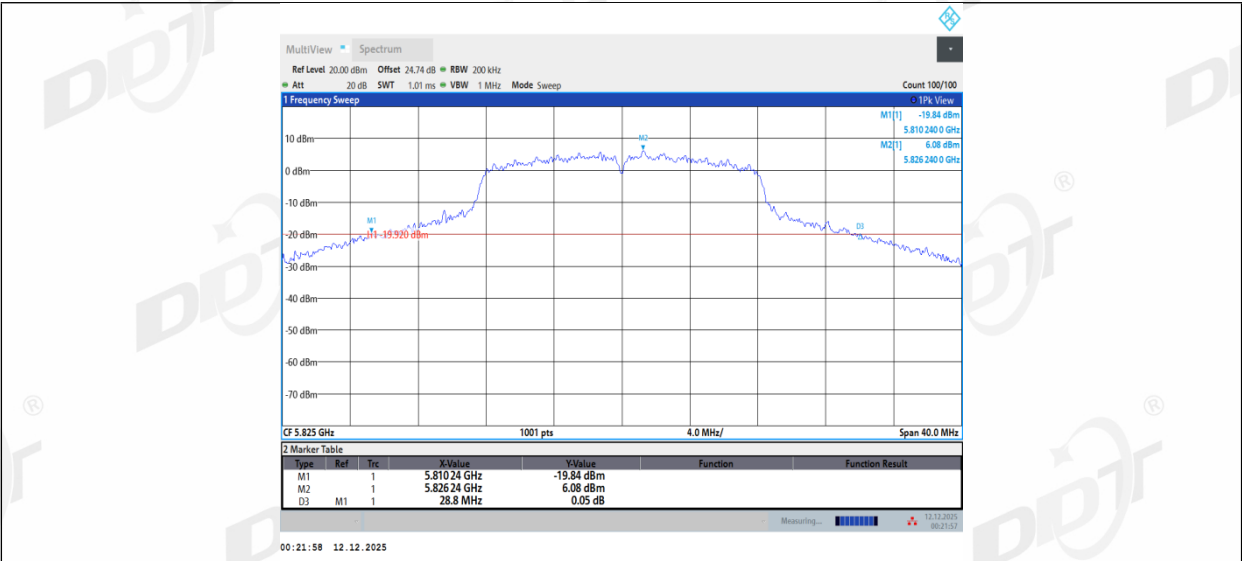
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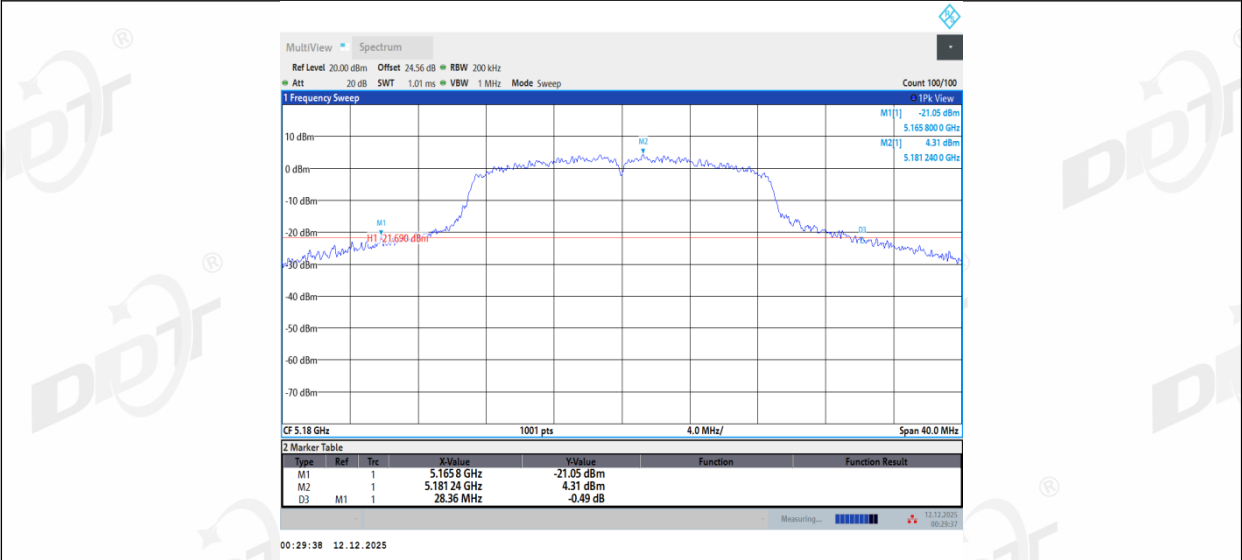
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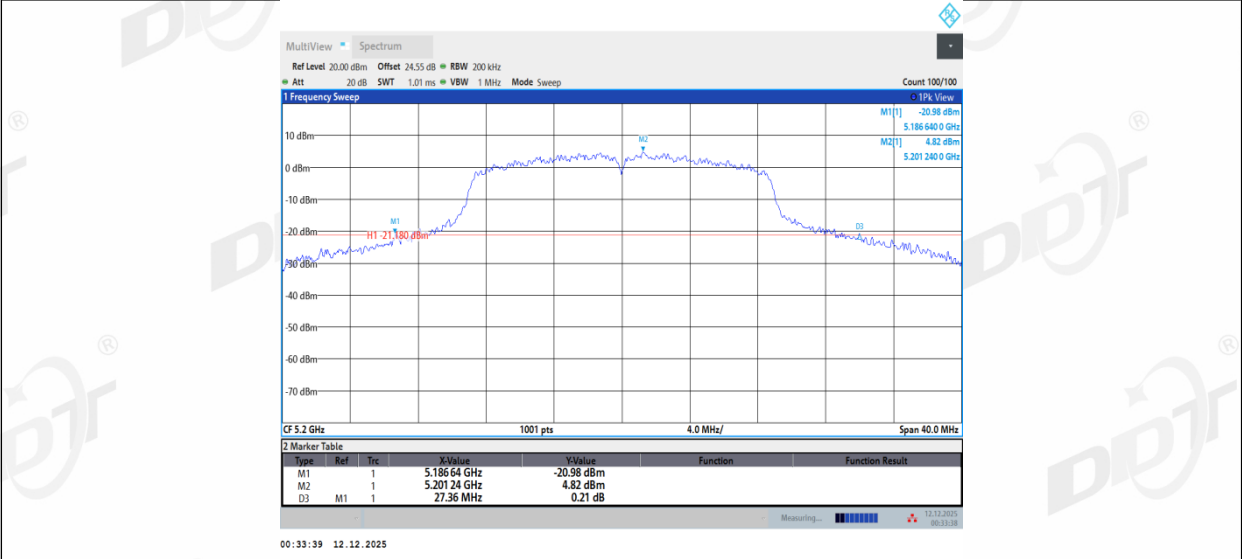
11A_Ant1_5825



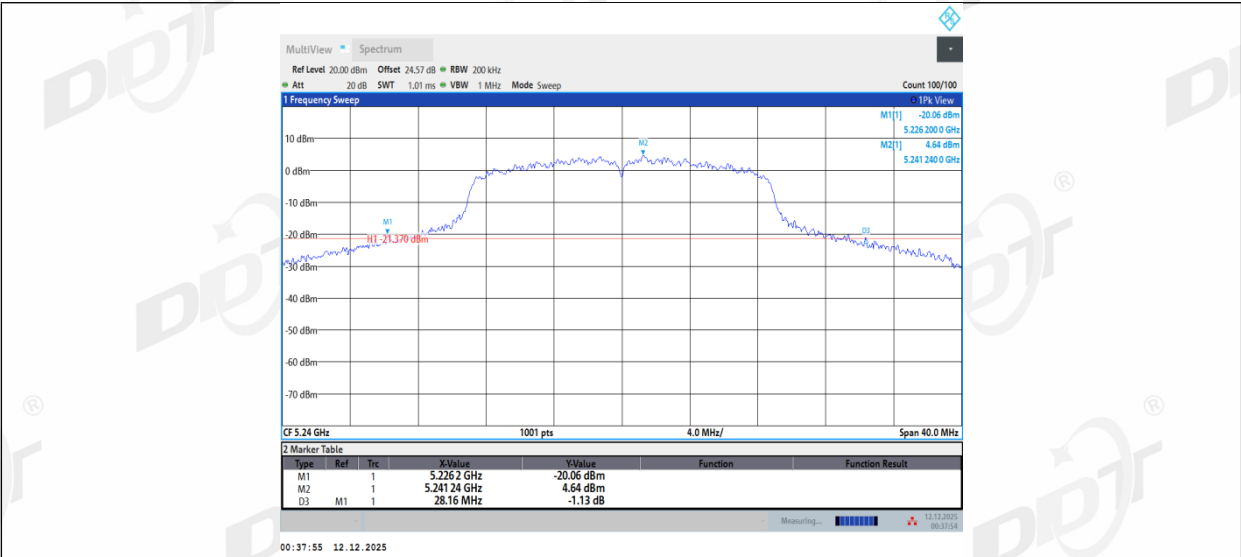
11N20SISO_Ant1_5180



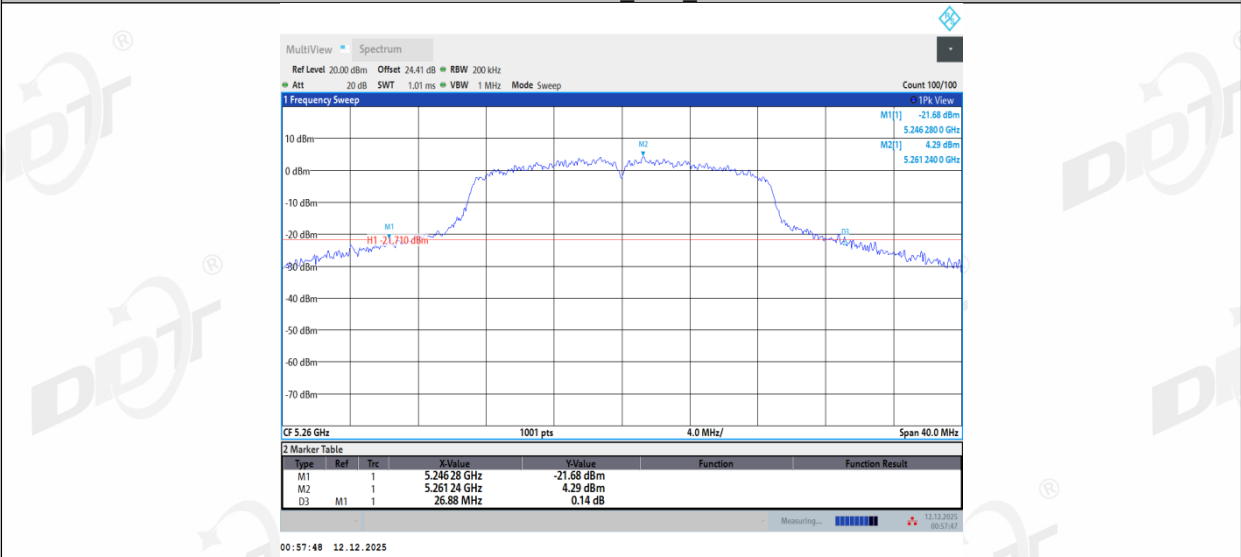
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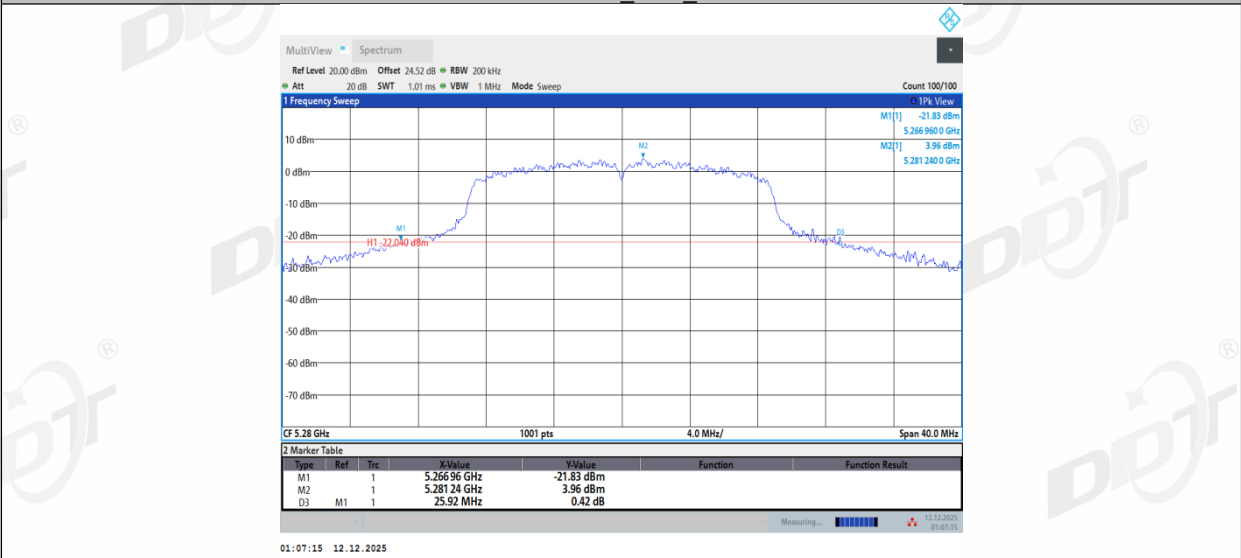
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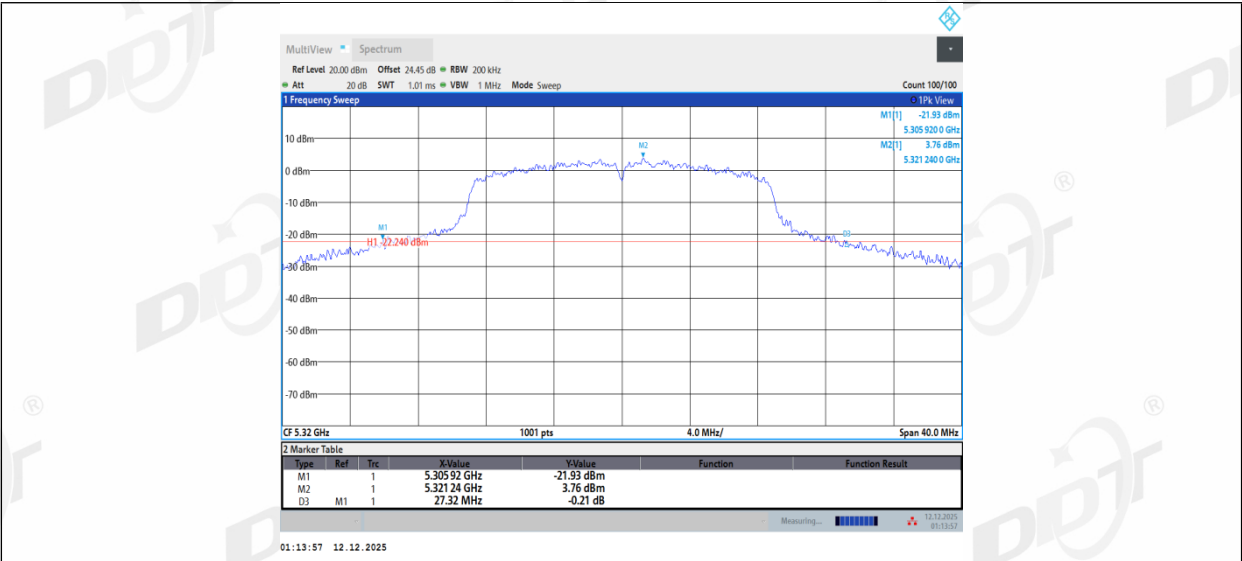
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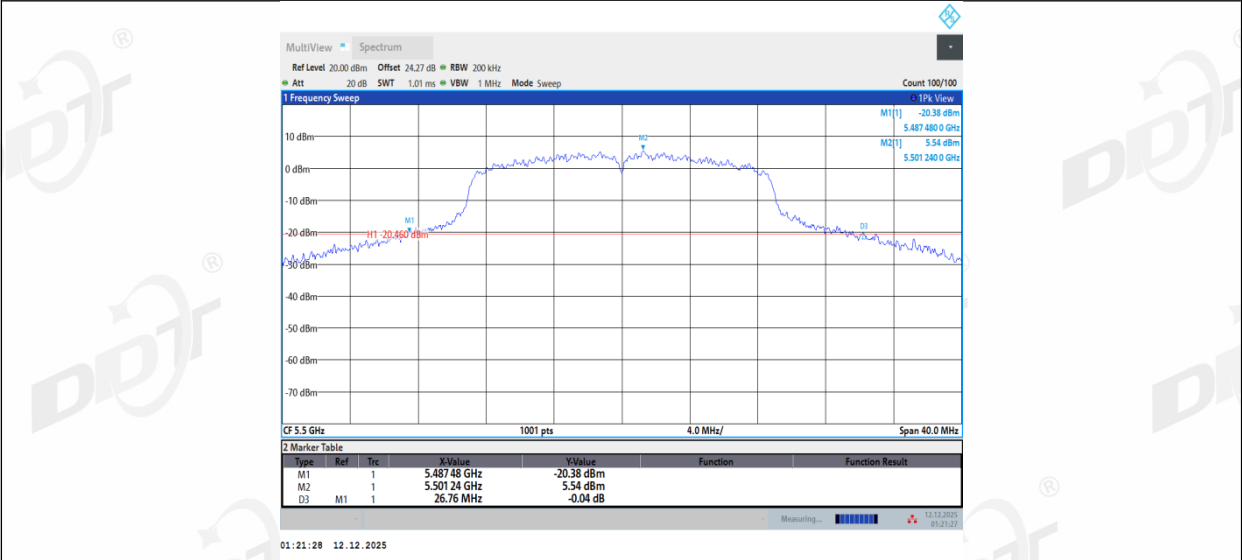
11N20SISO_Ant1_5280



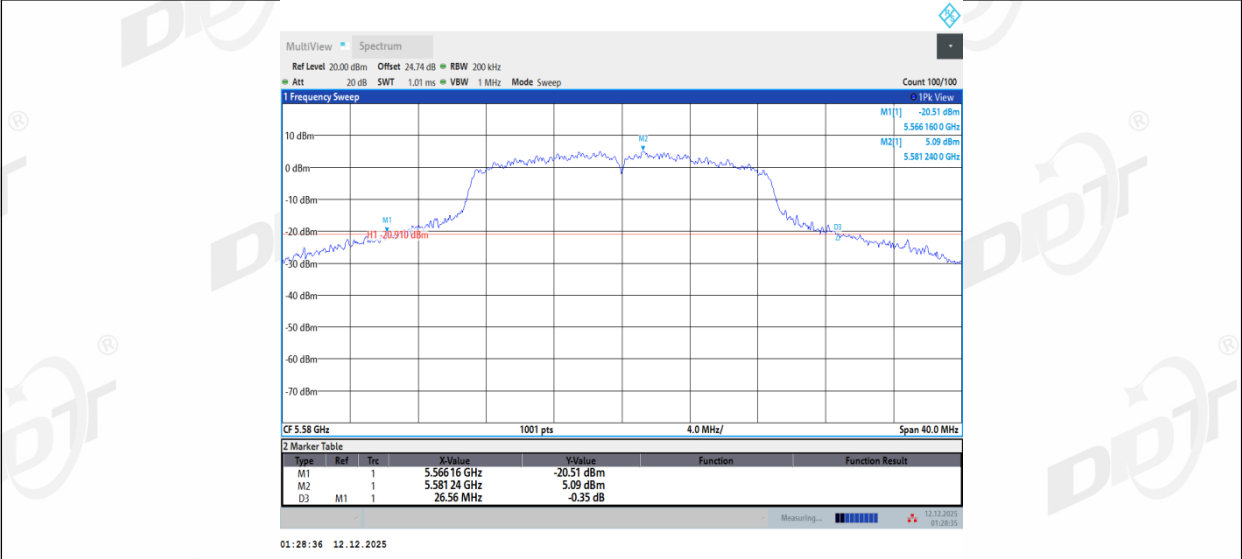
11N20SISO_Ant1_5320



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700