47 CFR PART 20 TEST REPORT

for

Lighthouse

Model No.: CY-LH0-22-XB1

FCC ID: 2AVNXCYLH022

of

Applicant: Airgain
Address: 3611 Valley Centre Drive, Ste. 150 San Diego, CA 92130 USA

Tested and Prepared

By

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

Report No.: W6M22502-24125-P-20

6F., No. 58, Ln. 188, Rueiguang Rd., Neihu Dist., Taipei City , Taiwan (R.O.C.)
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Certification of Test Report

Applicant : Airgain
3611 Valley Centre Drive, Ste. 150 San Diego, CA 92130 USA

Manufacturer : Airgain
3611 Valley Centre Drive, Ste. 150 San Diego, CA 92130 USA

Tested Equipment :

Type Description	: Lighthouse
Model Number	: CY-LH0-22-XB1
Brand Name	: Airgain
Operation Frequency	: Please see chapter 2.3
Antenna type / Gain	: 5G Outdoor Antenna / NR-Band 77: 13 dBi
RF Output Power	: NR-Band 77 (SU1): 27.80dBm NR-Band 77 (SU2): 27.47dBm NR-Band 77 (DU1): 27.81dBm NR-Band 77 (DU2): 27.51dBm
Power Supply	: 120 Va.c.

Regulation Applied : 47CFR Part 20 (2023)

Test Method : 47CFR Part 20 (2023)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2023) and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 20.

Note:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of Worldwide Testing Services (Taiwan) Co. Ltd.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

Date	WTS-Lab.	Name	Signature
May 16, 2025		Robert Ren	Robert Ren

Technical responsibility for area of testing:

Date	WTS	Name	Signature
May 16, 2025		Kevin Wang	Kevin Wang

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1. Summary

1.1 Description of tested equipment

This equipment under tested, CY-LH0-22-XB1, is a Lighthouse.
This test report only contains test requirements specified in 47CFR Part 20 for 5G NR function. For other functions; please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Date of receipt of test item: February 10, 2025
Date of test: From February 11, 2025 to April 14, 2025
Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard: **47 CFR Part 2 (2023), 47 CFR Part 20 (2023)**

Deviation from test standard: None

1.5 Summary of test result

Harmonized Standard Requirements and Conformance Test Specifications				
Item	Test Content	KDB Clause	FCC Reference	Test Result
3.2	AGC threshold level	935210 D05 v01r02 ch3.2	- -	Pass
4.2	Out-of-band rejection	935210 D05 v01r02 ch3.3	- -	Pass
5.2	Input vs output comparison	935210 D05 v01r02 ch3.4	- -	Pass
6.2	Mean output power and amplifier gain	935210 D05 v01r02 ch3.5	§2.1046, §27.50(a)	Pass
7.2	Out-of-band/out-of-block (including intermodulation) and spurious emissions	935210 D05 v01r02 ch3.6	- -	Pass
8.2	Frequency stability	935210 D05 v01r02 ch3.7	§2.1055, §27.54	Pass
9.2	Radiated spurious emissions	935210 D05 v01r02 ch3.8	§2.1053, §27.53(a)	Pass

2. General Information

2.1 Testing laboratory

2.1.1 Location

10m OATS
No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber
No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114 , Taiwan (R.O.C.)
Tel: 886-2-6606-8877

2.1.2 Details of accreditation status

Accredited testing laboratory
FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037
Industry Canada filed test laboratory Reg. No.: 20037, 31634

2.1.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
	./.

2.2 Details of approval holder

Name:	Airgain
Street:	3611 Valley Centre Drive, Ste. 150 San Diego,
Town:	CA 92130
Country:	USA

Manufacturer: (if different from applicant)

Name:	./.
Street:	./.
Town:	./.
Country:	./.

2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

Equipment	Model No.	Series No.	Software	Cable information	Note
No accessories were used with this EUT.					

5G NR
Band 77

n77 Channel and Frequency List 3450 - 3550 MHz				
Bandwidth (MHz)	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	633334		
	Frequency(MHz)	3500.01		
90	Channel	633000	633334	633666
	Frequency(MHz)	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency(MHz)	3490.02	3500.01	3510
60	Channel	632000	633334	634666
	Frequency(MHz)	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency(MHz)	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency(MHz)	3470.01	3500.01	3529.98
20	Channel	630668	633334	636000
	Frequency(MHz)	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency(MHz)	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency(MHz)	3455.01	3500.01	3544.98

n77 Channel and Frequency List 3700 - 3980 MHz				
Bandwidth (MHz)	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency(MHz)	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency(MHz)	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency(MHz)	3740.01	3840	3939.99
60	Channel	648668	656000	663332
	Frequency(MHz)	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency(MHz)	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency(MHz)	3720	3840	3960
20	Channel	347334	656000	664666
	Frequency(MHz)	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency(MHz)	3707.52	3840	3972.48
10	Channel	347000	656000	665000
	Frequency(MHz)	3705	3840	3975

Antenna Type: 5G Outdoor Antenna

Antenna Gain: 5G NR 77: 13 dBi

Power supply: 120Va.c.

2.4 Test environment

Relative humidity content: 54 %
Air pressure: 86-103 Kpa

2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz respectively with an appropriate sweep speed.

For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted spurious emission	Expanded Uncertainty：1.69 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A)	Expanded Uncertainty： 0.009-30 MHz：1.85 dB 30-1000 MHz：3.92 dB 1-18 GHz：3.19 dB 18-40 GHz：1.90 dB
Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty：0.37 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement	Expanded Uncertainty：6.11 Hz
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty：1.27 dB

The decision rule is: Measurement uncertainty is not taken into account.

2.6 Test Equipment List

Mean Output and booster Gain(AGC)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2024/4/10	2025/4/9
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2024/5/10	2025/5/9
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 （S_Cable 9）	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Frequency stability

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2024/7/23	2025/7/22
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2024/4/10	2025/4/9
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2024/5/10	2025/5/9
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 （S_Cable 9）	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Input-versus-output signal comparison & Out-of-band emissions & Out-of-band rejection & Conducted Spurious emission

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2024/4/10	2025/4/9
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2024/5/10	2025/5/9
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 （S_Cable 9）	279067	HUBER+SUHNER	2025/2/14	2026/2/13

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FCC ID: 2AVNXCYLH022

Out-of-block (including intermodulation) emissions

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2024/4/10	2025/4/9
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2024/5/10	2025/5/9
ETSTW-RE 190	VXG vector signal generator	M9484C	MY63180023	KEYSIGHT	2024/12/8	2025/12/7
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 （S_Cable 9）	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Spurious Emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2024/5/10	2025/5/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168& EMCI-N-6-06	01380&AT-06007	SCHWARZBECK &EMC	2025/3/10	2026/3/9
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2025/3/7	2026/3/6
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2024/7/12	2025/7/11
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2024/7/12	2025/7/11
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2024/7/12	2025/7/11
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2024/8/1	2025/7/31
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2024/9/13	2025/9/12
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2024/9/13	2025/9/12
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2024/9/13	2025/9/12
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2024/6/25	2025/6/24
ETSTW-Cable 049	Microwave Cable	FA147A0015M2020	30064-1	UTIFLEX	2024/8/15	2025/8/14

3. AGC threshold level

3.1 Test procedure

a) Connect a signal generator to the input of the EUT.

b) Connect a spectrum analyzer or power meter to the output of the EUT using appropriate attenuation as necessary.

c) The signal generator should initially be configured to produce either of the required test signals (i.e., broadband or narrowband).

d) Set the signal generator frequency to the center frequency of the EUT operating band.

e) While monitoring the output power of the EUT, measured using the methods of 3.5.3 or 3.5.4, increase the input level until a 1 dB increase in the input signal power no longer causes a 1 dB increase in the output signal power.

f) Record this level as the AGC threshold level.

g) Repeat the procedure with the remaining test signal.

3.2 Test Results

Test date: March 17, 2025-March 28, 2025
Temperature: 27.4˚C
Humidity: 49.0%
Tester: Robert

NR n77 - SU1						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3455.01	-34.05	26.74	60.79	26.41	60.46
AGC threshold		-37.05	26.87	63.92	26.52	63.57
		-38.05	25.49	63.54	25.86	63.91
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-33.95	26.36	60.31	26.75	60.7
AGC threshold		-36.95	26.65	63.6	26.83	63.78
		-37.95	25.61	63.56	25.81	63.76
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3544.98	-33.74	26.54	60.28	27.12	60.86
AGC threshold		-36.74	26.79	63.53	27.34	64.08
		-37.74	25.81	63.55	26.35	64.09

NR n77 - SU2						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3455.01	-34.36	26.21	60.57	27.11	61.47
AGC threshold		-37.36	26.39	63.75	27.3	64.66
		-38.36	25.4	63.76	26.42	64.78
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-34.34	26.11	60.45	27.05	61.39
AGC threshold		-37.34	26.37	63.71	27.13	64.47
		-38.34	25.4	63.74	26.04	64.38
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3544.98	-34.36	26.02	60.38	27.13	61.49
AGC threshold		-37.36	26.31	63.67	27.47	64.83
		-38.36	25.48	63.84	26.52	64.88

NR n77 - SU1						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-34.02	26.47	60.49	25.23	59.25
AGC threshold		-37.02	26.72	63.74	25.55	62.57
		-38.02	25.81	63.83	24.39	62.41

NR n77 - DU1						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3455.01	-34.72	26.32	61.04	26.36	61.08
AGC threshold		-37.72	26.69	64.41	26.78	64.5
		-38.72	25.74	64.46	26.82	65.54
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-34.85	26.38	61.23	26.98	61.83
AGC threshold		-37.85	26.77	64.62	27.15	65
		-38.85	25.62	64.47	26.34	65.19
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3544.98	-34.86	26.19	61.05	27.12	61.98
AGC threshold		-37.86	26.62	64.48	27.48	65.34
		-38.86	25.55	64.41	26.3	65.16

NR n77 - DU2						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3455.01	-33.85	26.11	59.96	26.32	60.17
AGC threshold		-36.85	26.25	63.1	26.49	63.34
		-37.85	25.48	63.33	25.63	63.48
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-33.86	26.04	59.9	27.04	60.9
AGC threshold		-36.86	26.29	63.15	27.1	63.96
		-37.86	25.48	63.34	26.28	64.14
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3544.98	-33.82	26.21	60.03	26.43	60.25
AGC threshold		-36.82	26.3	63.12	26.68	63.5
		-37.82	25.72	63.54	25.66	63.48

NR n77 - DU1						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-34.62	26.22	60.84	25.21	59.83
AGC threshold		-37.62	26.5	64.12	25.52	63.14
		-38.62	25.54	64.16	24.69	63.31

NR n77 - DU2						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3500.01	-34.01	26.24	60.25	25.13	59.14
AGC threshold		-37.01	26.65	63.66	25.54	62.55
		-38.01	25.68	63.69	24.69	62.7

NR n77 - SU1						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3705	-32.36	24.66	57.02	27.35	59.71
AGC threshold		-35.36	24.85	60.21	27.46	62.82
		-36.36	24.1	60.46	26.43	62.79
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-32.29	24	56.29	27.06	59.35
AGC threshold		-35.29	24.3	59.59	27.32	62.61
		-36.29	24.09	60.38	26.27	62.56
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3975	-32.83	24.96	57.79	27.58	60.41
AGC threshold		-35.83	25.01	60.84	27.8	63.63
		-36.83	24.14	60.97	26.62	63.45

NR n77 - SU2						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3705	-33.36	25.55	58.91	26.98	60.34
AGC threshold		-36.36	25.87	62.23	27.04	63.4
		-37.36	24.73	62.09	26.15	63.51
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-33.21	25.11	58.32	27.12	60.33
AGC threshold		-36.21	25.24	61.45	27.23	63.44
		-37.21	25.09	62.3	26.36	63.57
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3975	-33.35	25.66	59.01	27.01	60.36
AGC threshold		-36.35	25.87	62.22	27.05	63.4
		-37.35	24.95	62.3	26.13	63.48

NR n77 - SU1						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3750	-33.63	25.02	58.65	26.45	60.08
AGC threshold		-36.63	25.31	61.94	26.68	63.31
		-37.63	24.74	62.37	25.59	63.22
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-33.5	24.66	58.16	26.31	59.81
AGC threshold		-36.5	25.02	61.52	26.56	63.06
		-37.5	24.06	61.56	25.48	62.98
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3930	-33.59	25.13	58.72	26.01	59.6
AGC threshold		-36.59	25.22	61.81	26.35	62.94
		-37.59	24.36	61.95	25.55	63.14

NR n77 - SU2						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3750	-33.75	26.23	59.98	26.35	60.1
AGC threshold		-36.75	26.34	63.09	26.59	63.34
		-37.75	25.12	62.87	25.77	63.52
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-33.9	25.68	59.58	28	61.9
AGC threshold		-36.9	26.12	63.02	28.21	65.11
		-37.9	25.13	63.03	27.16	65.06
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3930	-33.84	26.12	59.96	27.52	61.36
AGC threshold		-36.84	26.24	63.08	27.75	64.59
		-37.84	25.18	63.02	26.89	64.73

NR n77 - DU1						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3705	-34.51	24.12	58.63	27.13	61.64
AGC threshold		-37.51	24.87	62.38	27.29	64.8
		-38.51	23.41	61.92	26.42	64.93
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-34.67	23.54	58.21	27.01	61.68
AGC threshold		-37.67	24.01	61.68	27.43	65.1
		-38.67	23.67	62.34	26.38	65.05
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3975	-34.66	24.18	58.84	27	61.66
AGC threshold		-37.66	24.34	62	27.47	65.13
		-38.66	23.87	62.53	26.34	65

NR n77 - DU2						
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3705	-33.59	24.3	57.89	27.09	60.68
AGC threshold		-36.59	24.59	61.18	27.22	63.81
		-37.59	23.87	61.46	26.08	63.67
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-33.77	24.01	57.78	27.3	61.07
AGC threshold		-36.77	24.52	61.29	27.43	64.2
		-37.77	24.1	61.87	26.55	64.32
Bandwidth : 10MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3975	-33.59	24.41	58	27.06	60.65
AGC threshold		-36.59	24.59	61.18	27.26	63.85
		-37.59	23.88	61.47	26.4	63.99

NR n77 - DU1						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3750	-34.4	24.71	59.11	27.62	62.02
AGC threshold		-37.4	24.8	62.2	27.81	65.21
		-38.4	23.96	62.36	26.66	65.06
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-34.7	24.66	59.36	26.89	61.59
AGC threshold		-37.7	24.72	62.42	27.16	64.86
		-38.7	23.73	62.43	26.32	65.02
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3930	-34.44	24.92	59.36	26.35	60.79
AGC threshold		-37.44	25.01	62.45	26.54	63.98
		-38.44	24.23	62.67	25.7	64.14

NR n77 - DU2						
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3750	-34.14	25.03	59.17	26.63	60.77
AGC threshold		-37.14	25.29	62.43	26.87	64.01
		-38.14	24.33	62.47	25.77	63.91
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-34.02	24.98	59	27.38	61.4
AGC threshold		-37.02	25.18	62.2	27.51	64.53
		-38.02	24.32	62.34	26.34	64.36
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3930	-34.08	25.21	59.29	27	61.08
AGC threshold		-37.08	25.34	62.42	27.13	64.21
		-38.08	24.68	62.76	26.28	64.36

4. Out-of-band rejection

4.1 Test procedure

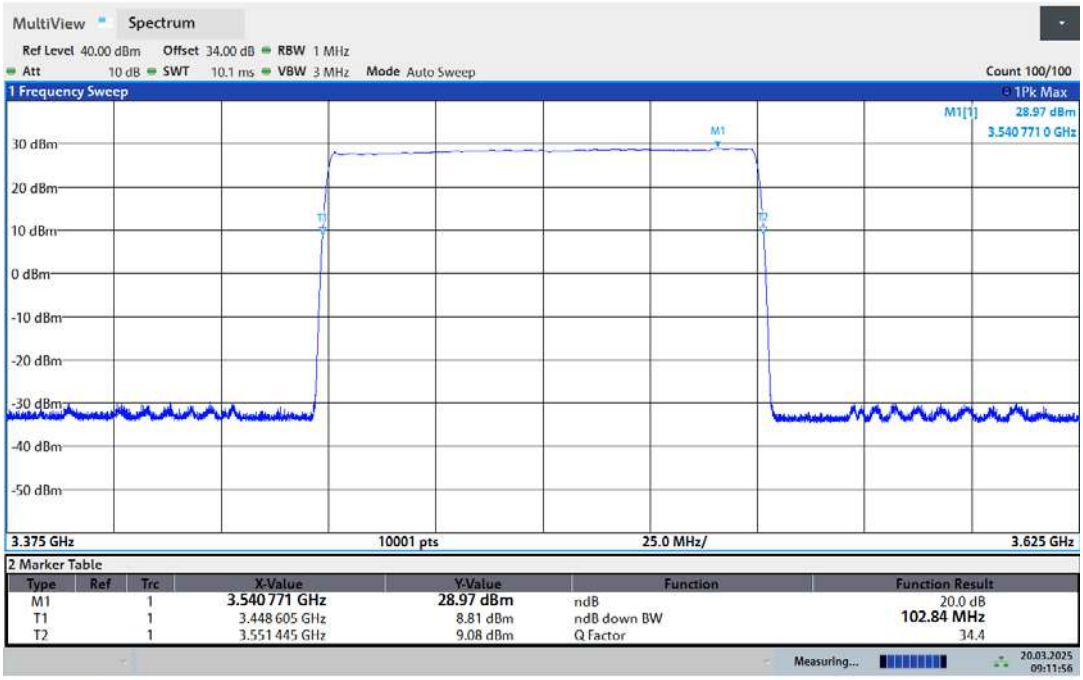
a) Connect a signal generator to the input of the EUT.
b) Configure a swept CW signal with the following parameters:
   1) Frequency range = ± 250 % of the passband, for each applicable CMRS band (see also KDB Publication 935210 D02 [R7] and KDB Publication 634817 [R5] about selection of frequencies for testing and for grant listings).
   2) Level = a sufficient level to affirm that the out-of-band rejection is > 20 dB above the noise floor and will not engage the AGC during the entire sweep.
   3) Dwell time = approximately 10 ms.
   4) Number of points = SPAN/(RBW/2).
c) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.
d) Set the span of the spectrum analyzer to the same as the frequency range of the signal generator.
e) Set the resolution bandwidth (RBW) of the spectrum analyzer to be 1 % to 5 % of the EUT passband, and the video bandwidth (VBW) shall be set to ≥ 3 × RBW.
f) Set the detector to Peak Max-Hold and wait for the spectrum analyzer's spectral display to fill.
g) Place a marker to the peak of the frequency response and record this frequency as f0.
h) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the −20 dB down amplitude, to determine the 20 dB bandwidth.
i) Capture the frequency response of the EUT.
j) Repeat for all frequency bands applicable for use by the EUT.

4.2 Test Results

Test date: March 19, 2025-March 20, 2025
Temperature: 23.1˚C
Humidity: 56.3%
Tester: Robert

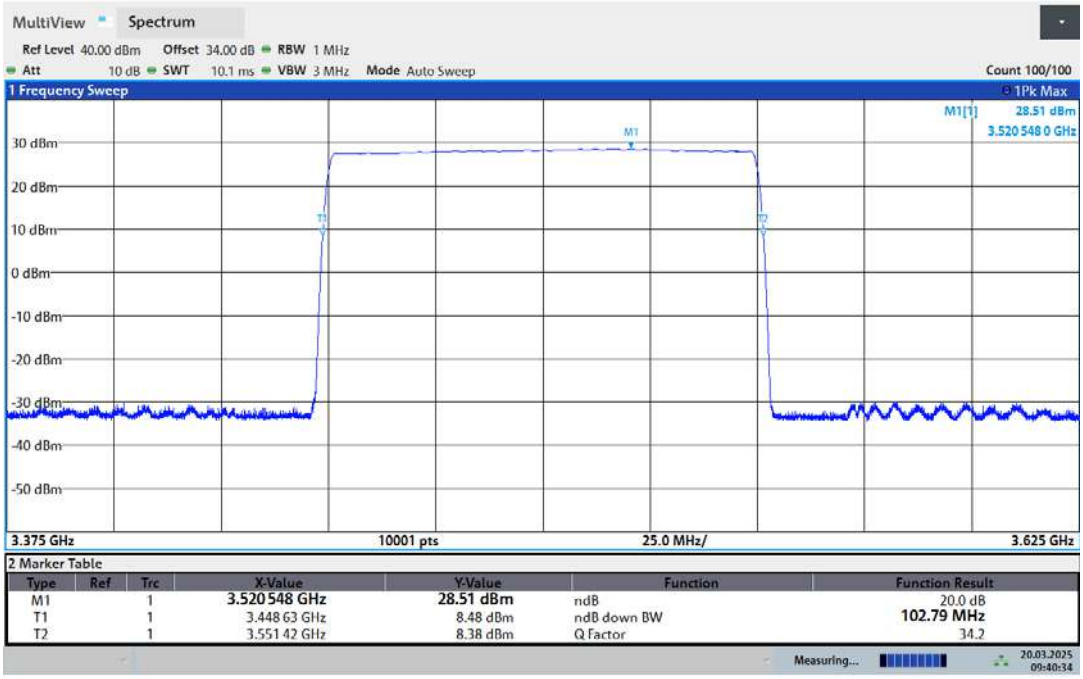
Report Number: W6M22502-24125-P-20
FCC ID: 2AVNXCYLH022
3450-3550MHz

Out of Band Rejection n77 DU1 3.45-3.55GHz



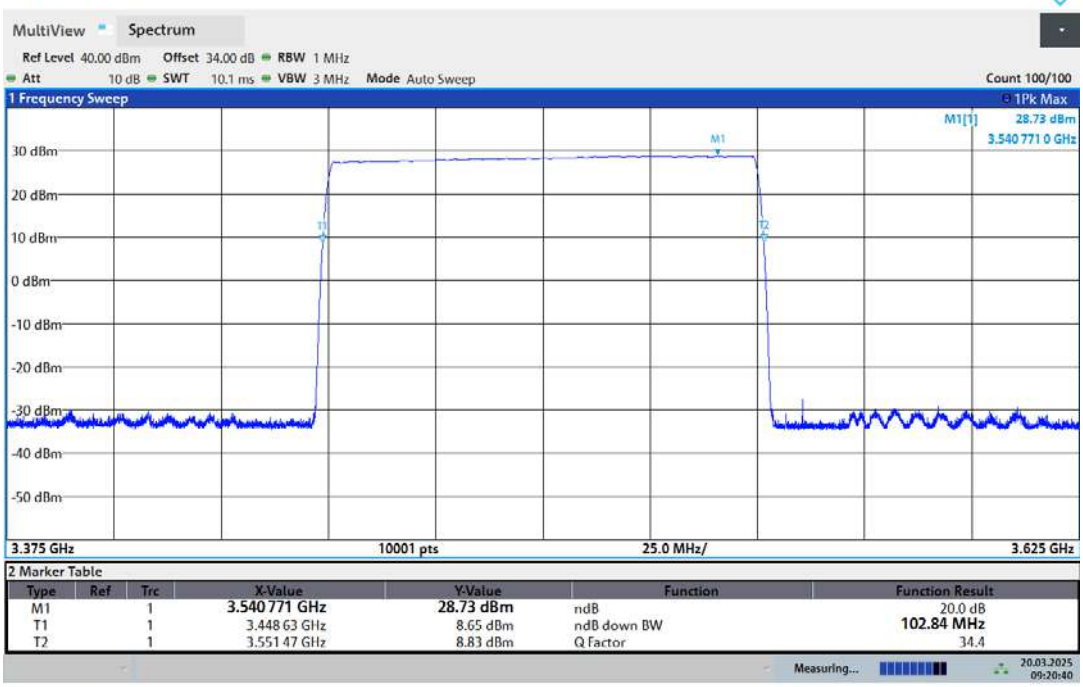
09:11:57 20.03.2025

Out of Band Rejection n77 DU2 3.45-3.55GHz



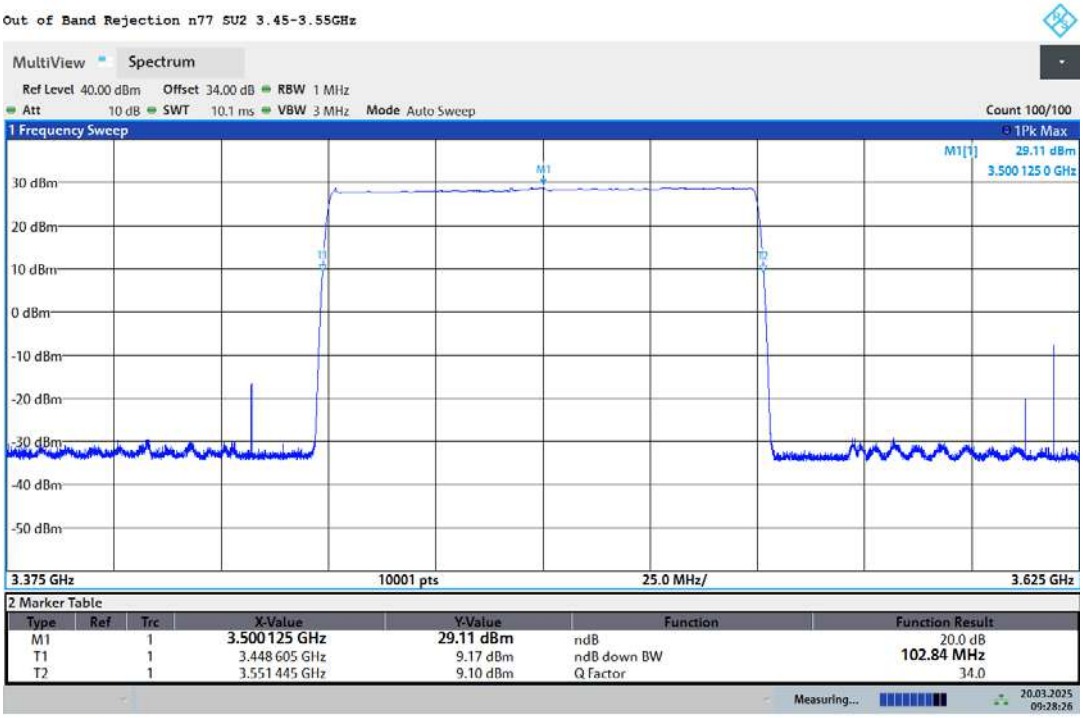
09:40:35 20.03.2025

Out of Band Rejection n77 5U1 3.45-3.55GHz



09:20:41 20.03.2025

Out of Band Rejection n77 5U2 3.45-3.55GHz



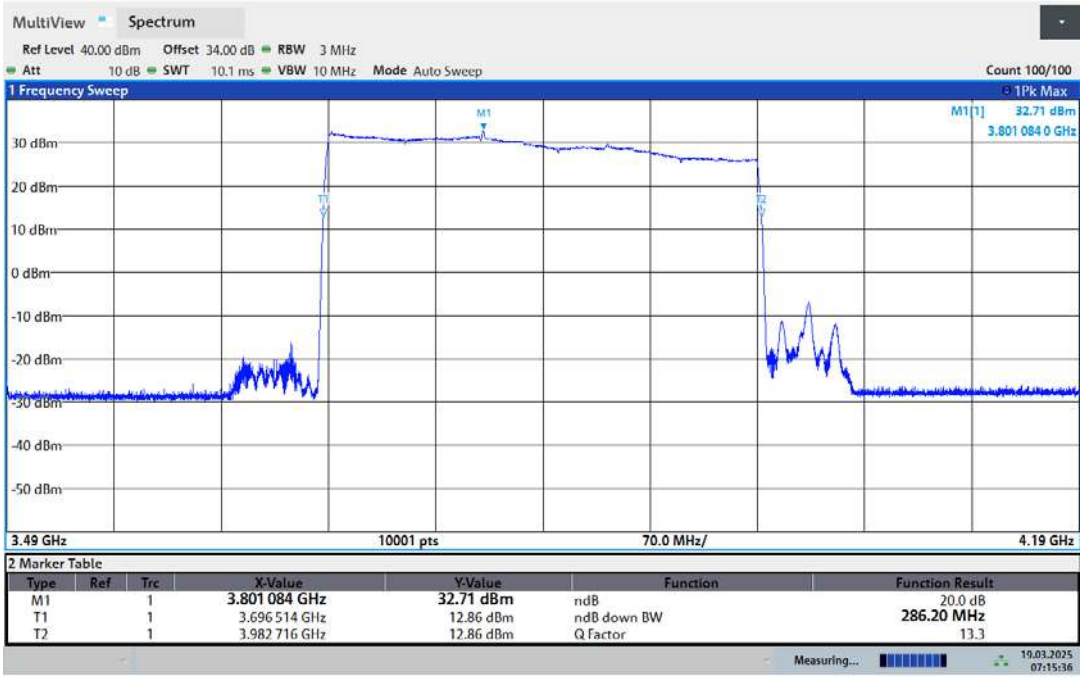
09:28:26 20.03.2025

Report Number: W6M22502-24125-P-20
FCC ID: 2AVNXCYLH022
3700-3980MHz

Out oF Band Rejection n77 DU1 3.7-3.98GHz

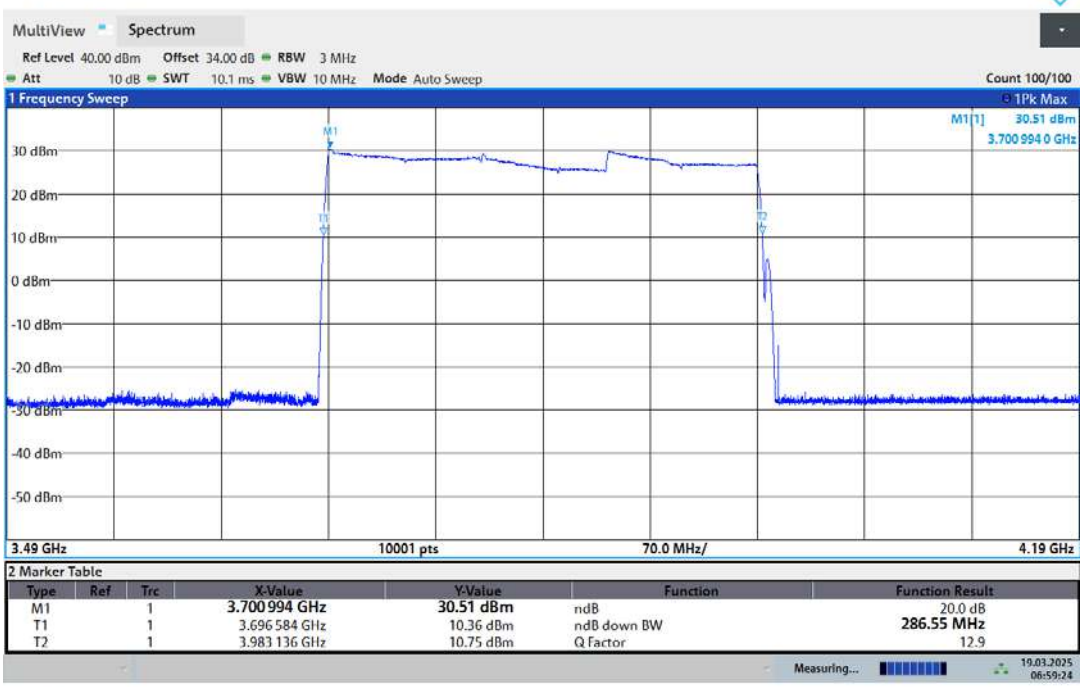
06:54:02 19.03.2025

Out oF Band Rejection n77 DU2 3.7-3.98GHz



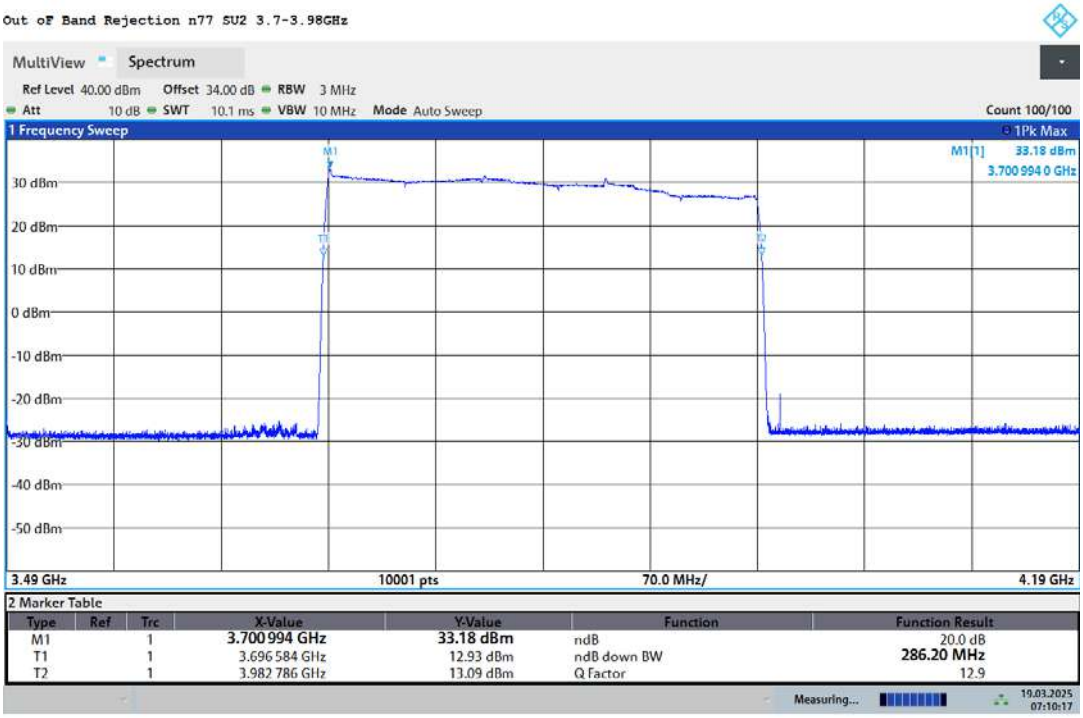
07:15:37 19.03.2025

Out oF Band Rejection n77 5U1 3.7-3.98GHz



06:59:25 19.03.2025

Out oF Band Rejection n77 5U2 3.7-3.98GHz



07:10:17 19.03.2025

5. Input-versus-output signal comparison

5.1 Test procedure

a) Connect a signal generator to the input of the EUT.

b) Configure the signal generator to transmit the AWGN signal.

c) Configure the signal amplitude to be just below the AGC threshold level (see 3.2), but not more than 0.5 dB below.

d) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.

e) Set the spectrum analyzer center frequency to the center frequency of the operational band under test. The span range of the spectrum analyzer shall be between 2 times to 5 times the emission bandwidth (EBW) or alternatively, the OBW.

f) The nominal RBW shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be ≥ 3 × RBW.

g) Set the reference level of the instrument as required to preclude the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope must be more than [10 log (OBW / RBW)] below the reference level.
Steps f) and g) may require iteration to enable adjustments within the specified tolerances.

h) The noise floor of the spectrum analyzer at the selected RBW shall be at least 36 dB below the reference level.

i) Set spectrum analyzer detection function to positive peak.

j) Set the trace mode to max hold.

k) Determine the reference value: Allow the trace to stabilize. Set the spectrum analyzer marker to the highest amplitude level of the displayed trace (this is the reference value) and record the associated frequency as f0.

l) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the −26 dB down amplitude. The 26 dB EBW (alternatively OBW) is the positive frequency difference between the two markers. If the spectral envelope crosses the −26 dB down amplitude at multiple points, the lowest or highest frequency shall be selected as the frequencies that are the furthest removed from the center frequency at which the spectral envelope crosses the −26 dB down amplitude point.

m) Repeat steps e) to l) with the input signal connected directly to the spectrum analyzer (i.e., input signal measurement).

n) Compare the spectral plot of the input signal (determined from step m) to the output signal (determined from step l) to affirm that they are similar (in passband and rolloff characteristic features and relative spectral locations), and include plot(s) and descriptions in test report.

o) Repeat the procedure [steps e) to n)] with the input signal amplitude set to 3 dB above the AGC threshold.

p) Repeat steps e) to o) with the signal generator set to the narrowband signal.

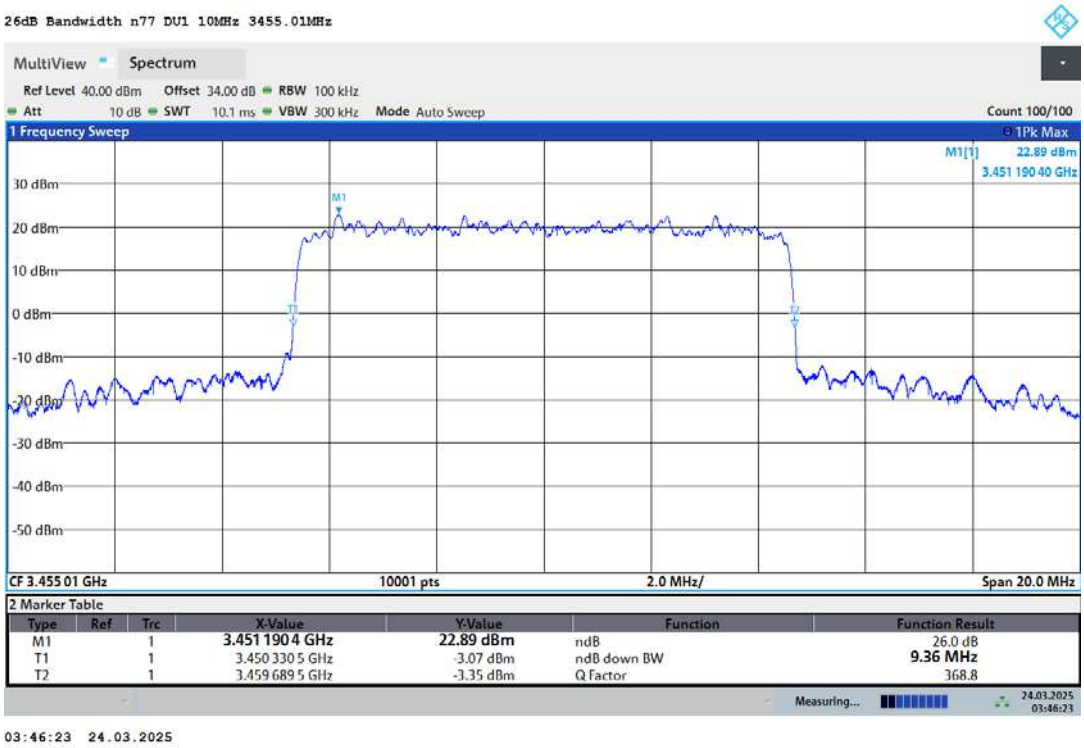
q) Repeat steps e) to p) for all frequency bands authorized for use by the EUT.

Report Number: W6M22502-24125-P-20
FCC ID: 2AVNXCYLH022

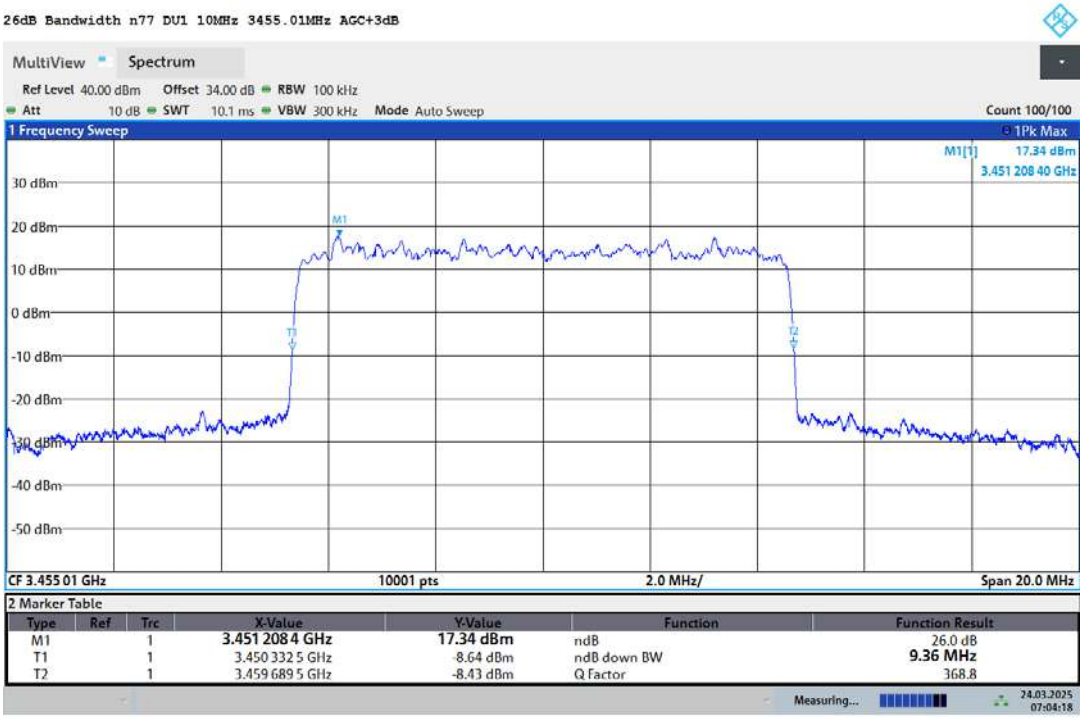
5.2 Test Results

Test date: March 19, 2025-April 02, 2025
Temperature: 20.7˚C
Humidity: 60.0%
Tester: Robert

3450-3550MHz
DU
10M



26dB Bandwidth n77 DU1 10MHz 3455.01MHz AGC+3dB



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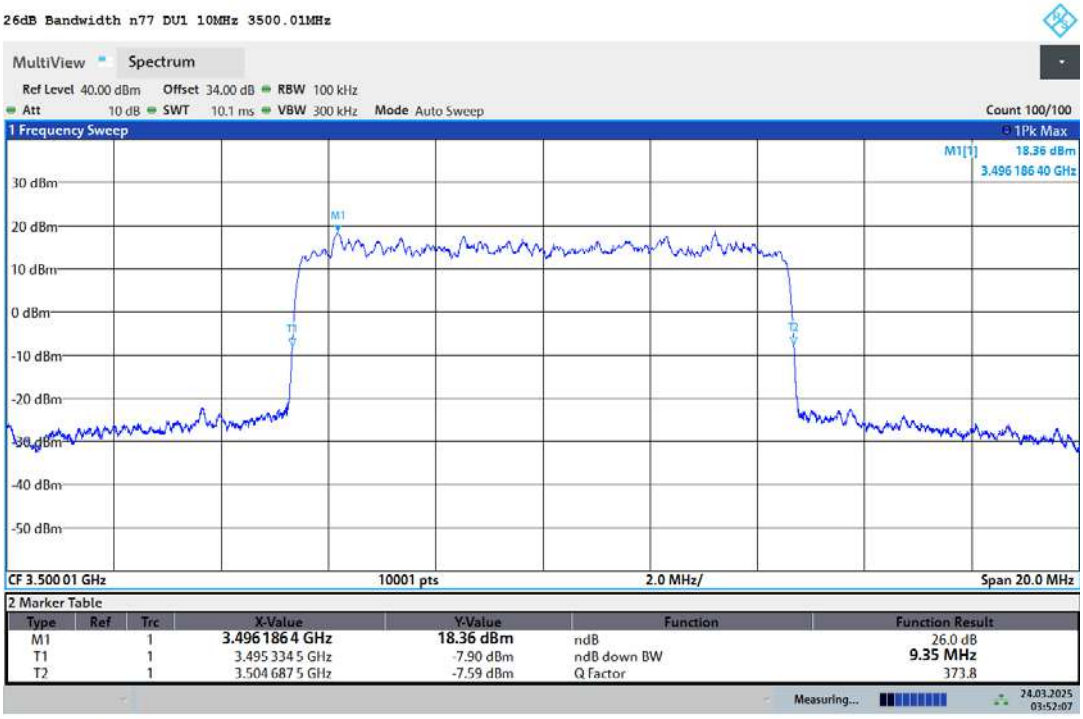
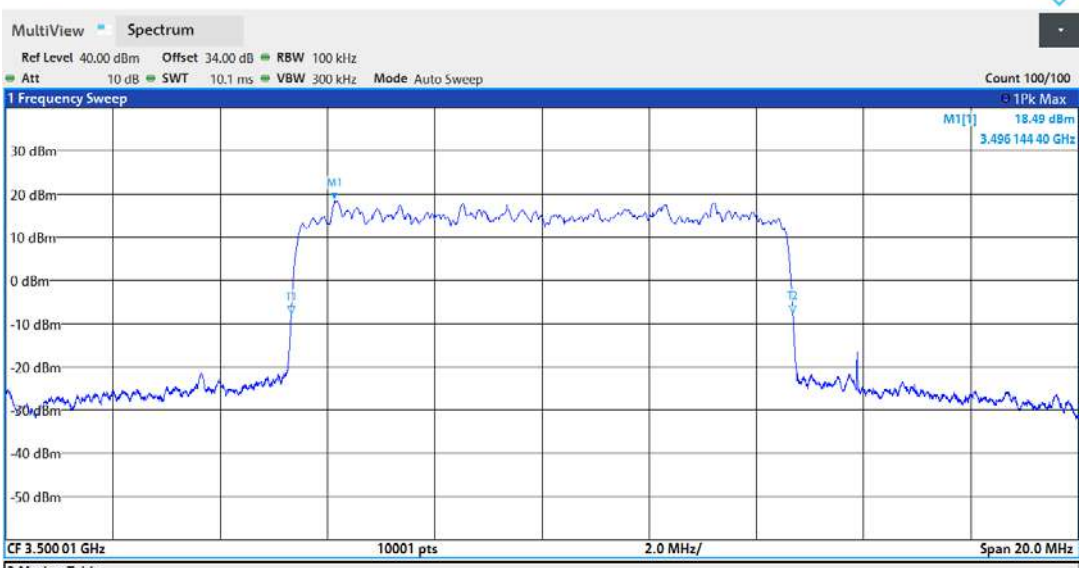
26dB Bandwidth n77 DU1 10MHz 3500.01MHz



03:52:08 24.03.2025

26dB Bandwidth n77 DU1 10MHz 3500.01MHz AGC+3dB



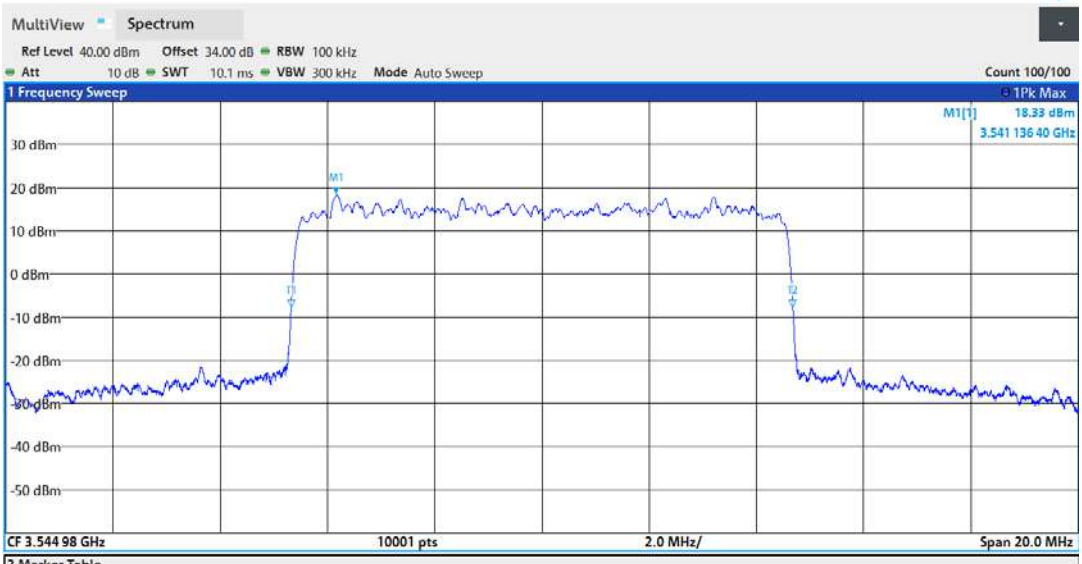
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	3.496 144 4 GHz	18.49 dBm	ndB	26.0 dB
T1		1	3.495 334 5 GHz	-7.74 dBm	ndB down BW	9.36 MHz
T2		1	3.504 689 5 GHz	-7.64 dBm	Q factor	373.7

Measuring... 24.03.2025 06:59:15

06:59:16 24.03.2025

26dB Bandwidth n77 DU1 10MHz 3544.98MHz



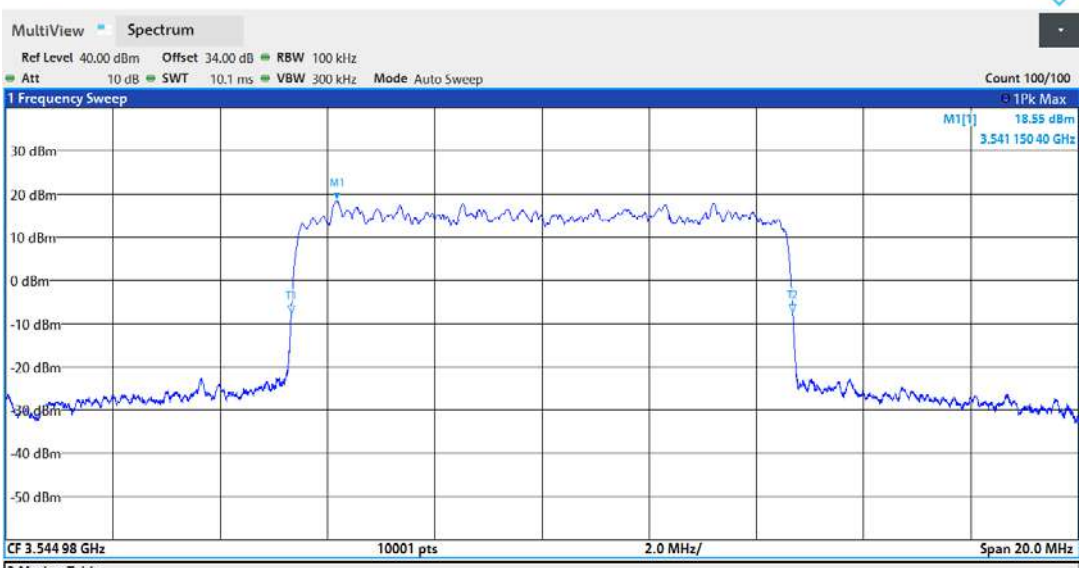
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	3.541 136 4 GHz	18.33 dBm	ndB	26.0 dB
T1		1	3.540 304 5 GHz	-7.77 dBm	ndB down BW	9.36 MHz
T2		1	3.549 659 5 GHz	-7.83 dBm	Q factor	378.5

Measuring... 24.03.2025 04:01:30

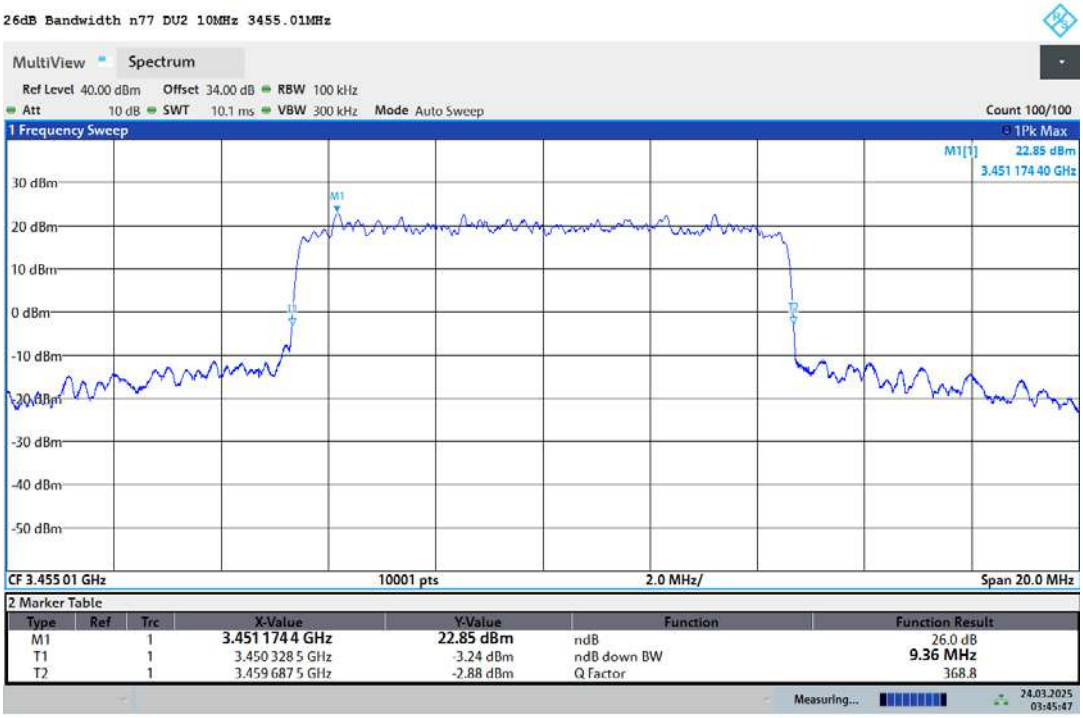
04:01:31 24.03.2025

26dB Bandwidth n77 DU1 10MHz 3544.98MHz AGC+3dB



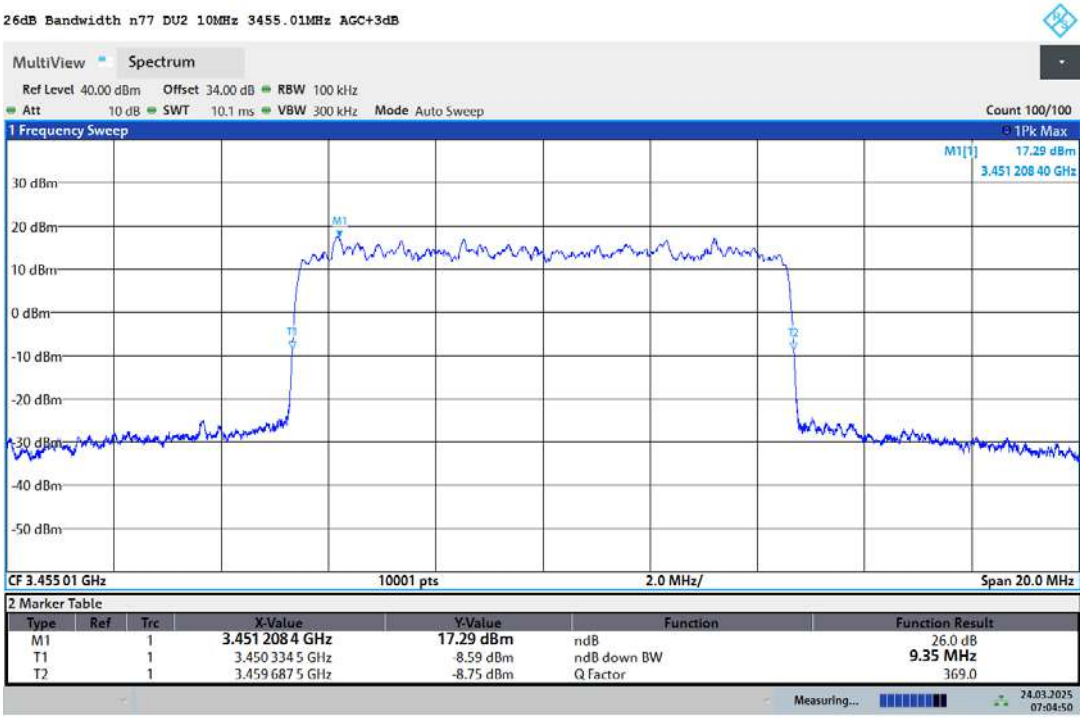
06:23:55 24.03.2025

26dB Bandwidth n77 DU2 10MHz 3455.01MHz



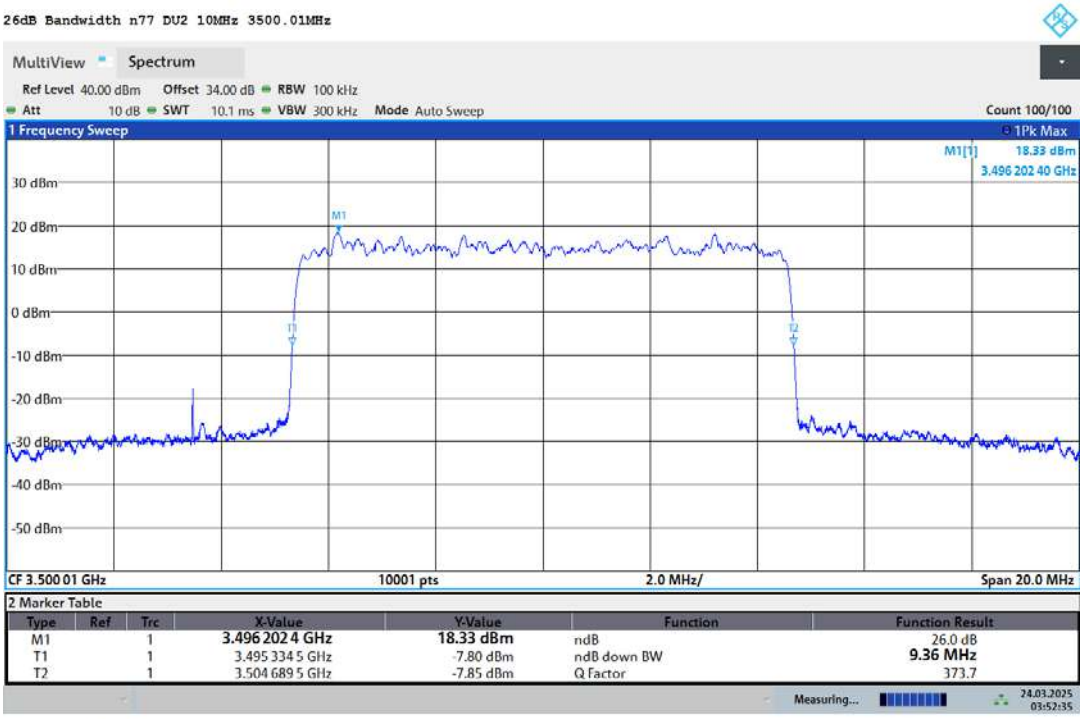
03:45:47 24.03.2025

26dB Bandwidth n77 DU2 10MHz 3455.01MHz AGC+3dB



07:04:50 24.03.2025

26dB Bandwidth n77 DU2 10MHz 3500.01MHz



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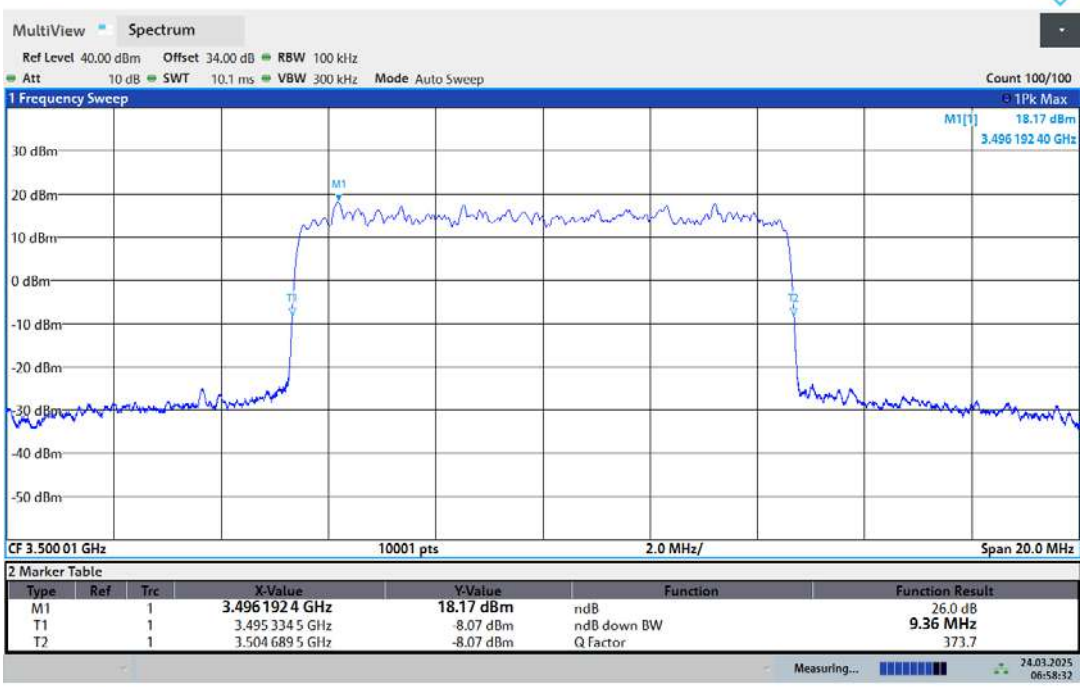
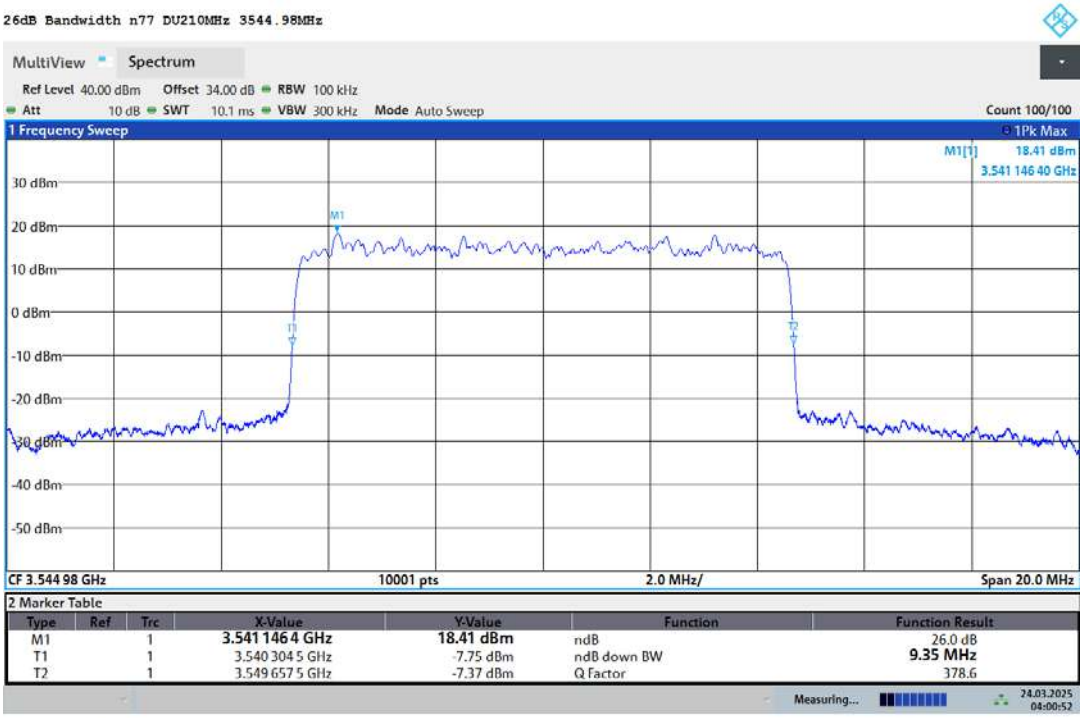
26dB Bandwidth n77 DU2 10MHz 3500.01MHz AGC+3dB



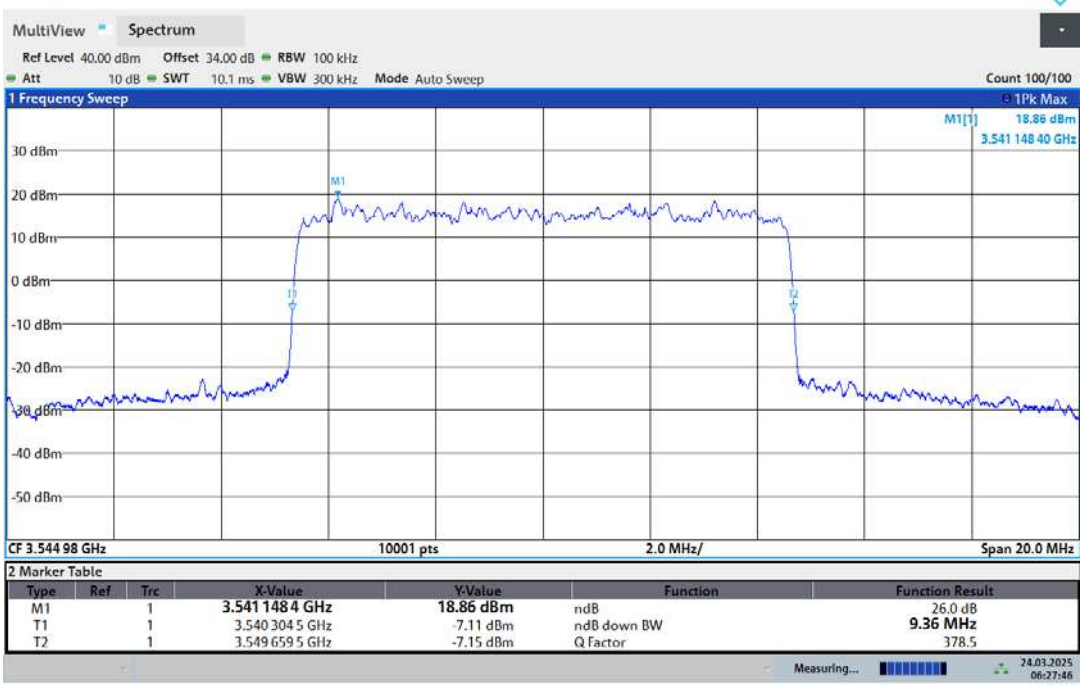
06:58:33 24.03.2025

26dB Bandwidth n77 DU210MHz 3544.98MHz



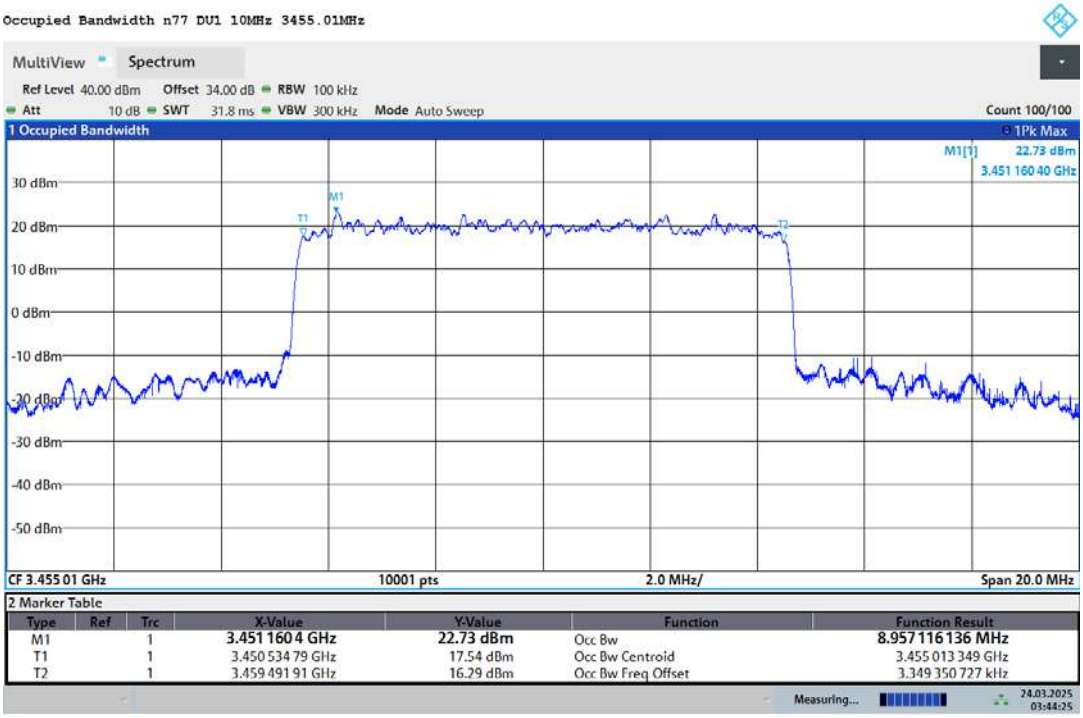
04:00:53 24.03.2025

26dB Bandwidth n77 DU2 10MHz 3544.98MHz AGC+3dB



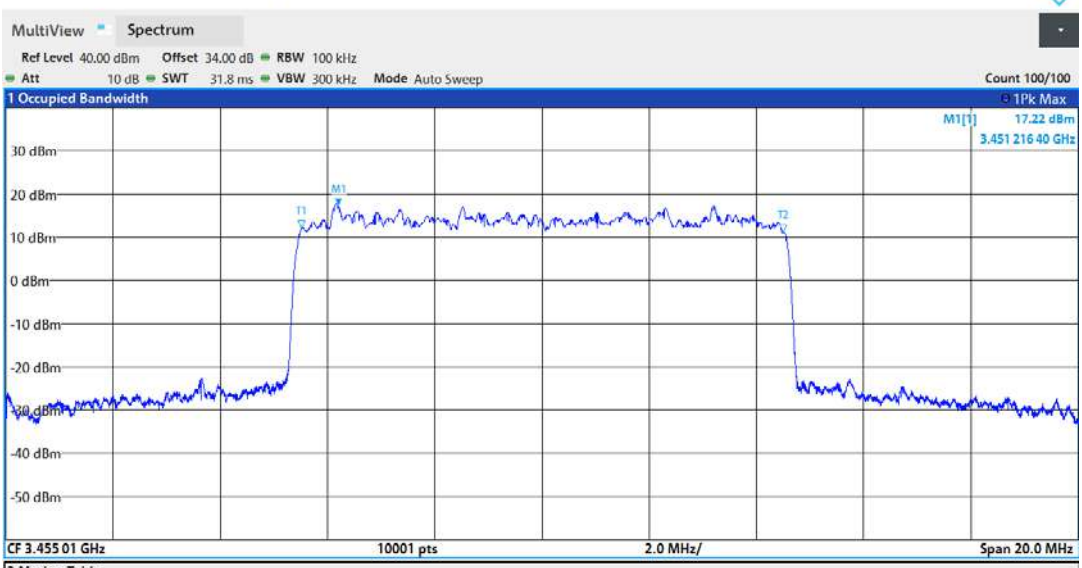
06:27:46 24.03.2025

Occupied Bandwidth n77 DU1 10MHz 3455.01MHz



03:44:25 24.03.2025

Occipied Bandwidth n77 DU1 10MHz 3455.01MHz AGC+3dB



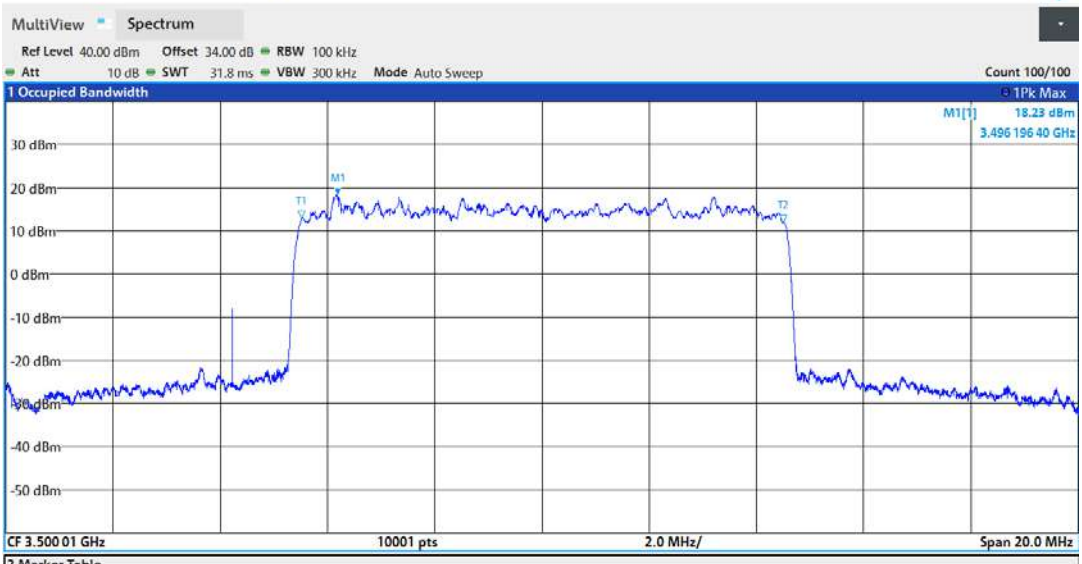
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	3.451 216 4 GHz	17.22 dBm	Occ Bw	8.978 315 281 MHz
T1		1	3.450 526 3 GHz	12.04 dBm	Occ Bw Centroid	3.455 015 457 GHz
T2		1	3.459 504 62 GHz	11.17 dBm	Occ Bw Freq Offset	5.457 425 926 kHz

Measuring... 24.03.2025 07:06:15

07:06:16 24.03.2025

Occupied Bandwidth n77 DU1 10MHz 3500.01MHz



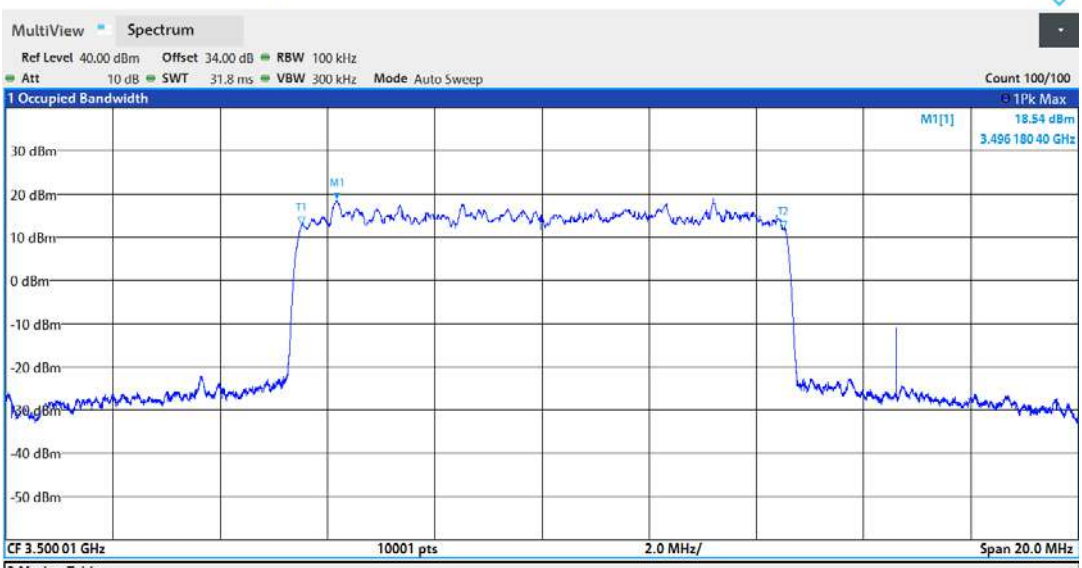
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	3.496 196 4 GHz	18.23 dBm	Occ Bw	8.978 923 972 MHz
T1		1	3.495 526 94 GHz	12.88 dBm	Occ Bw Centroid	3.500 016 406 GHz
T2		1	3.504 505 87 GHz	11.90 dBm	Occ Bw Freq Offset	6.406 099 454 kHz

Measuring... 24.03.2025 03:53:57

03:53:58 24.03.2025

Occupied Bandwidth n77 DU1 10MHz 3500.01MHz AGC+3dB



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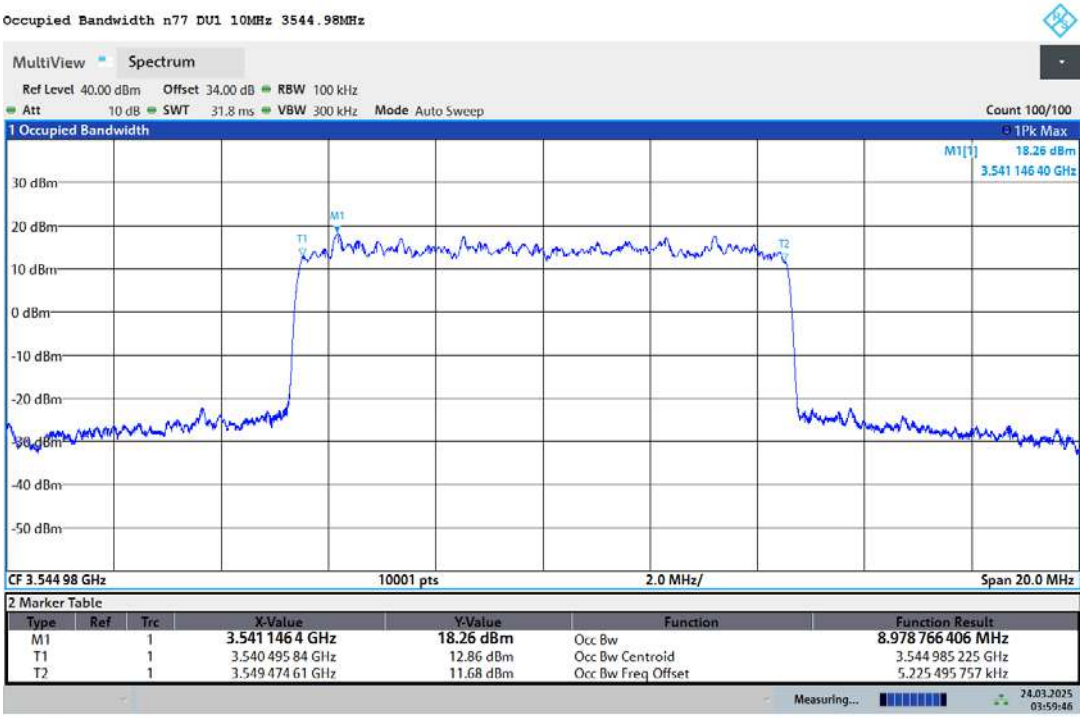
Occupied Bandwidth n77 DU1 10MHz 3544.98MHz



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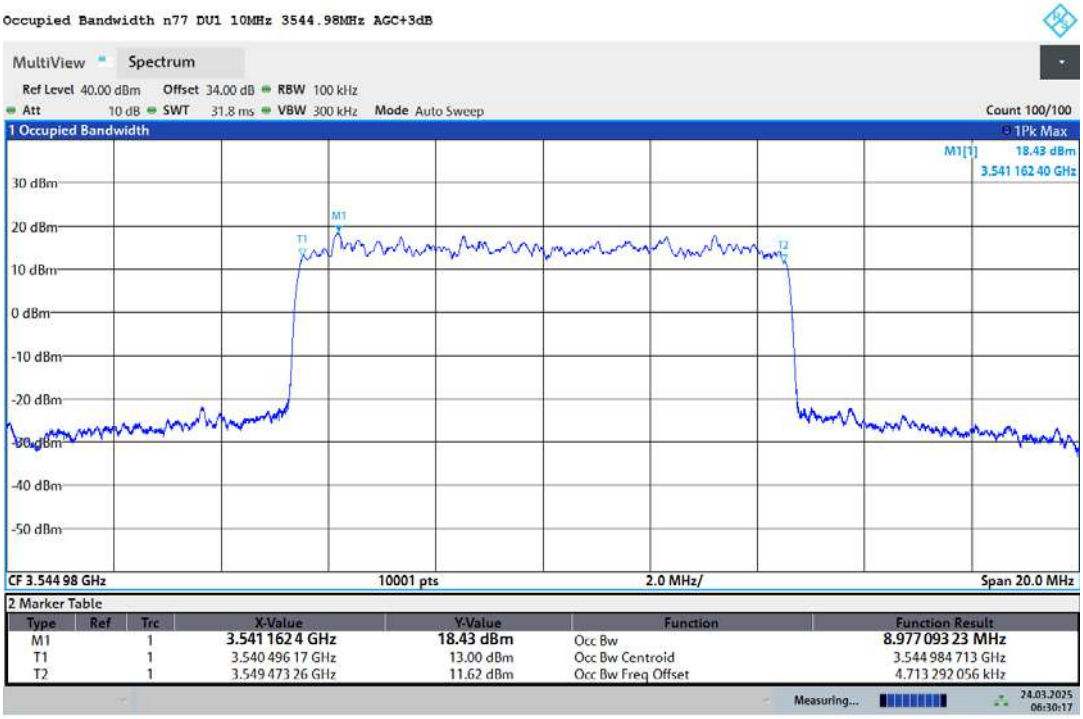
Occupied Bandwidth n77 DU1 10MHz 3544.98MHz AGC+3dB



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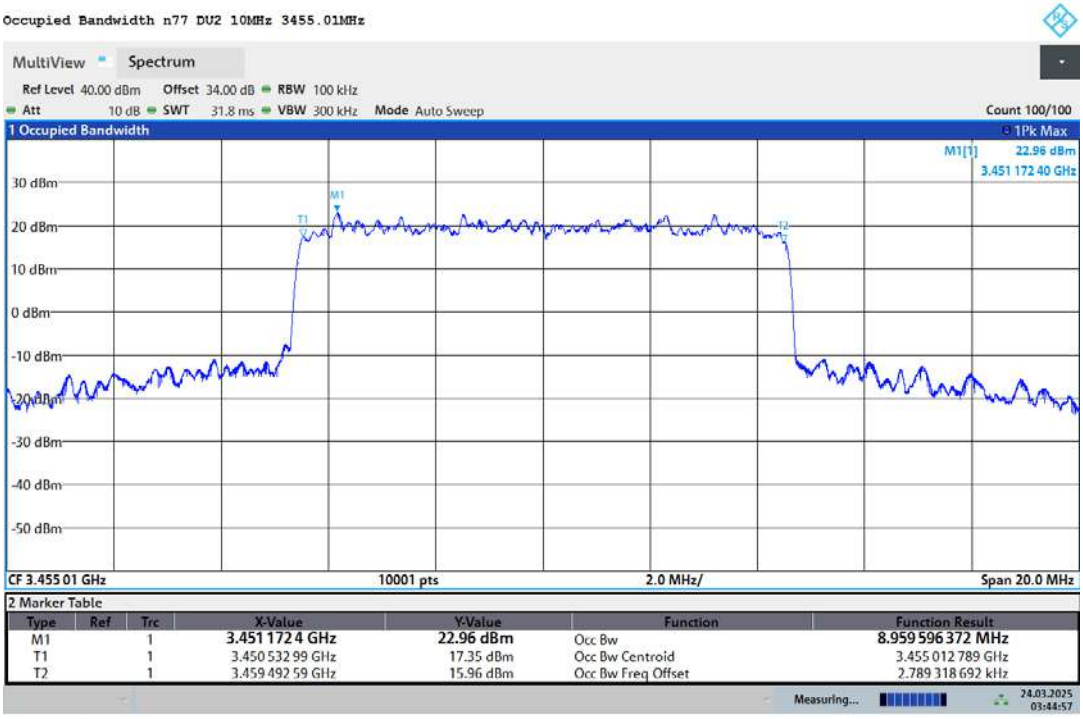
Occupied Bandwidth n77 DU2 10MHz 3455.01MHz



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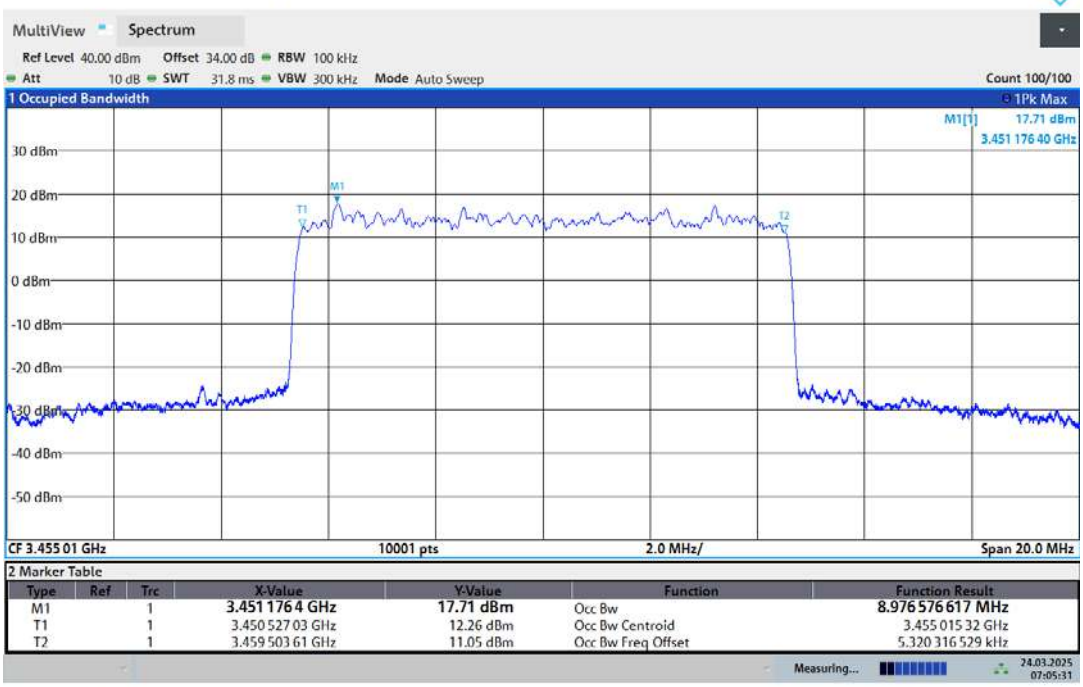
Occipied Bandwidth n77 DU2 10MHz 3455.01MHz AGC+3dB



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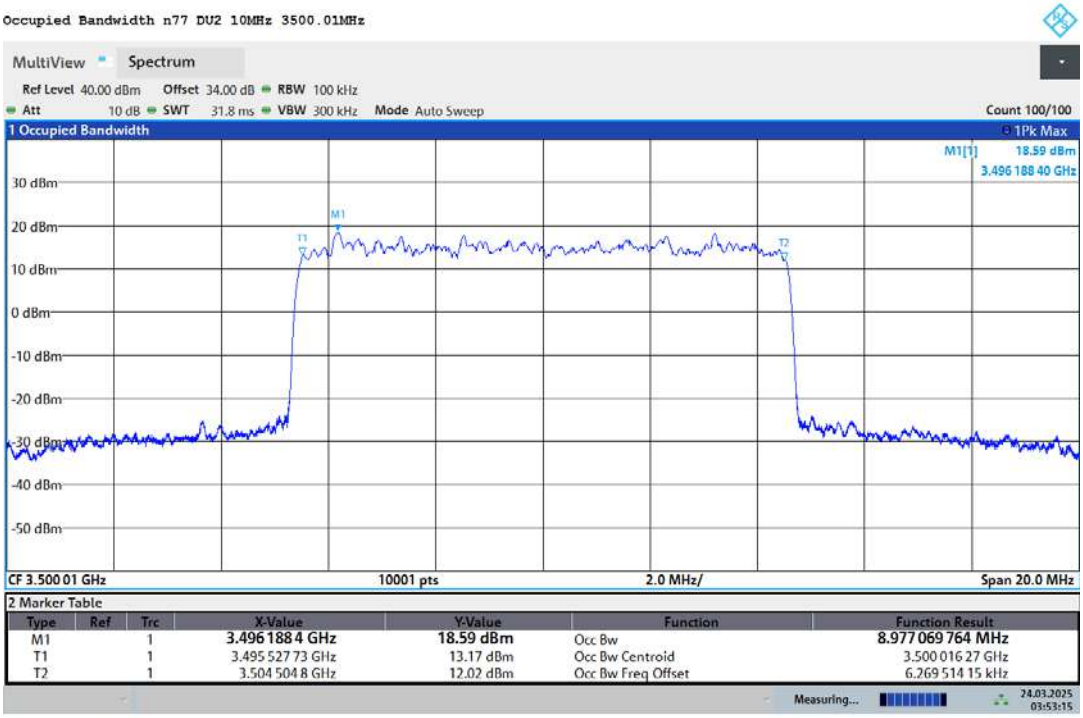

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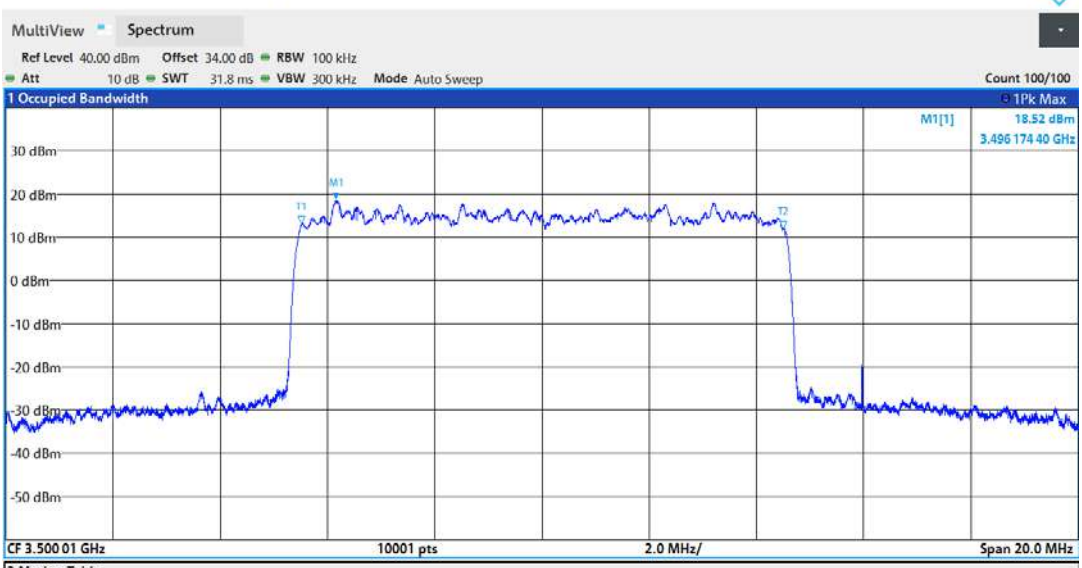
Occupied Bandwidth n77 DU2 10MHz 3500.01MHz AGC+3dB



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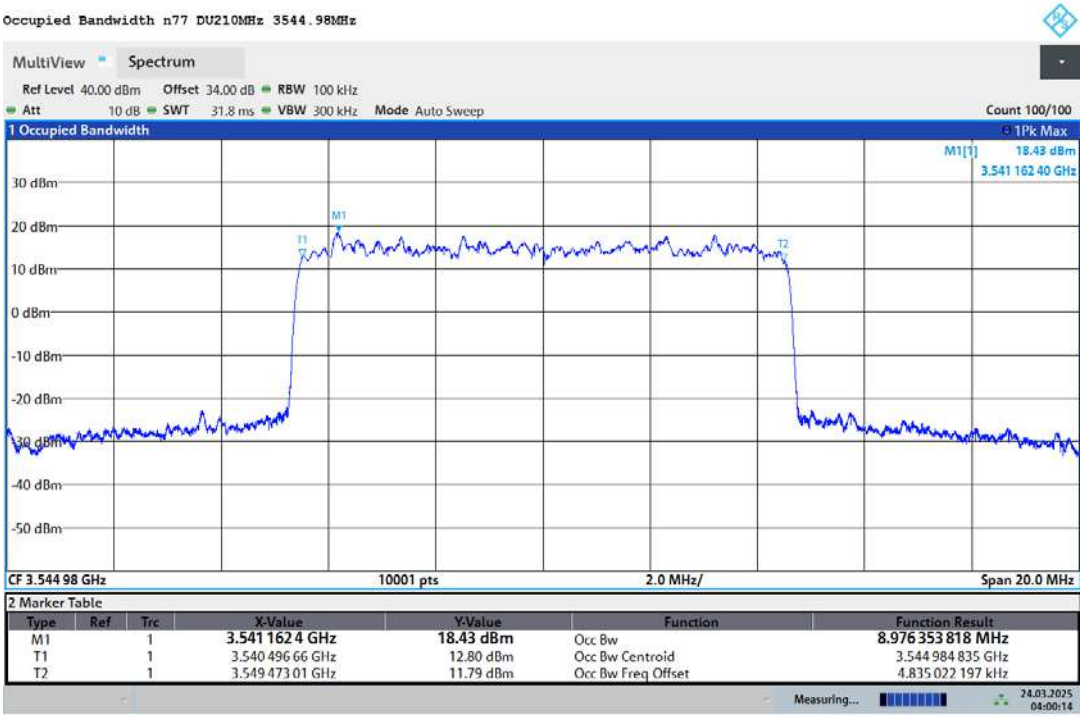
Occupied Bandwidth n77 DU210MHz 3544.98MHz



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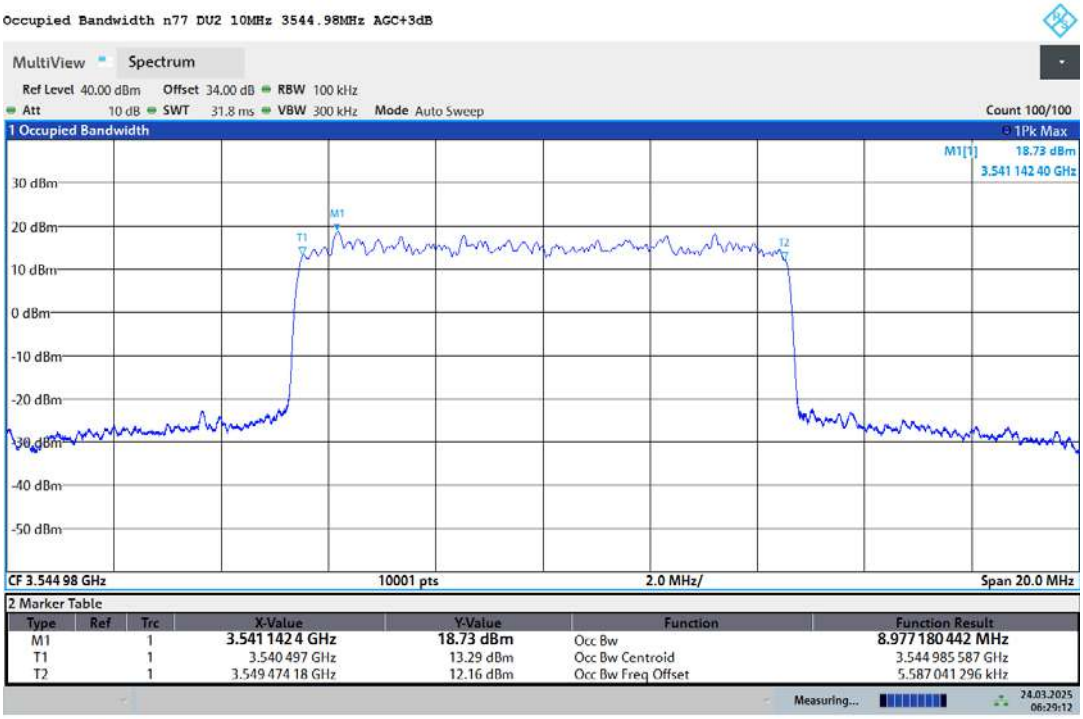
Occupied Bandwidth n77 DU2 10MHz 3544.98MHz AGC+3dB



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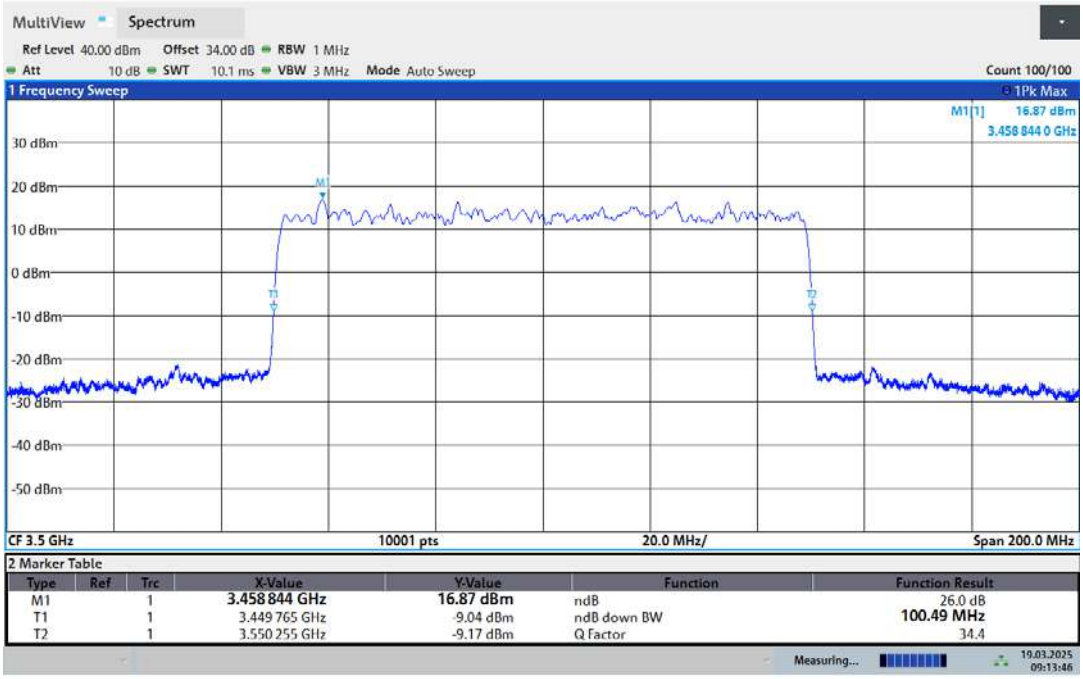
100M

26dB Bandwidth n77 DU1 3.45-3.55GHz



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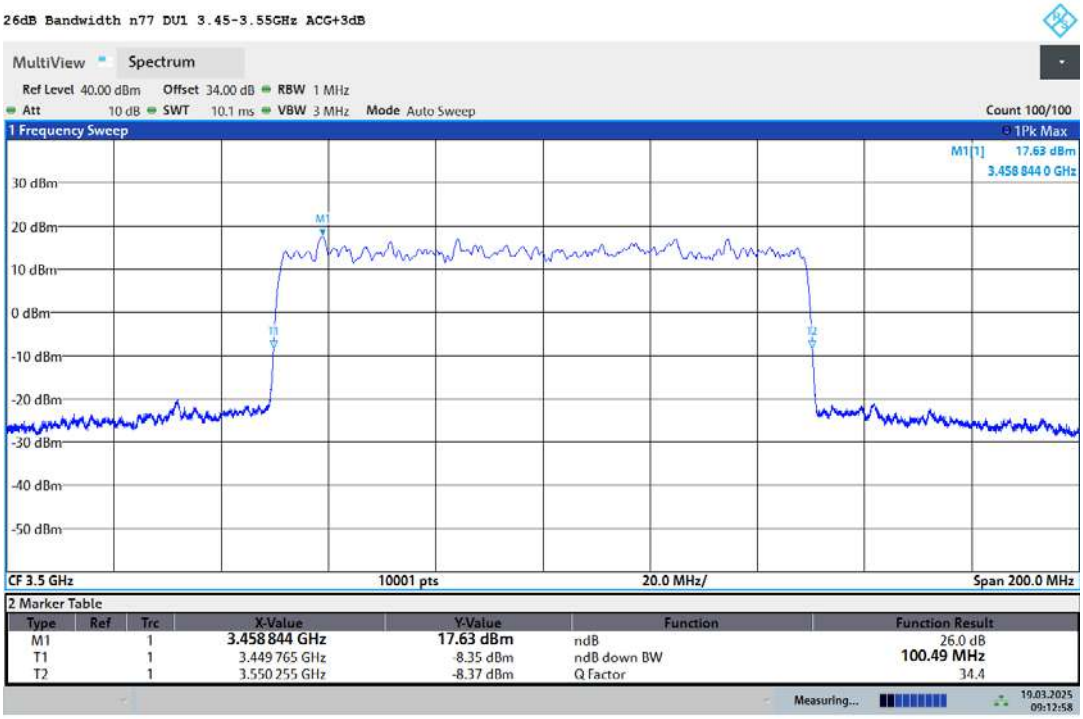
26dB Bandwidth n77 DU1 3.45-3.55GHz ACG+3dB



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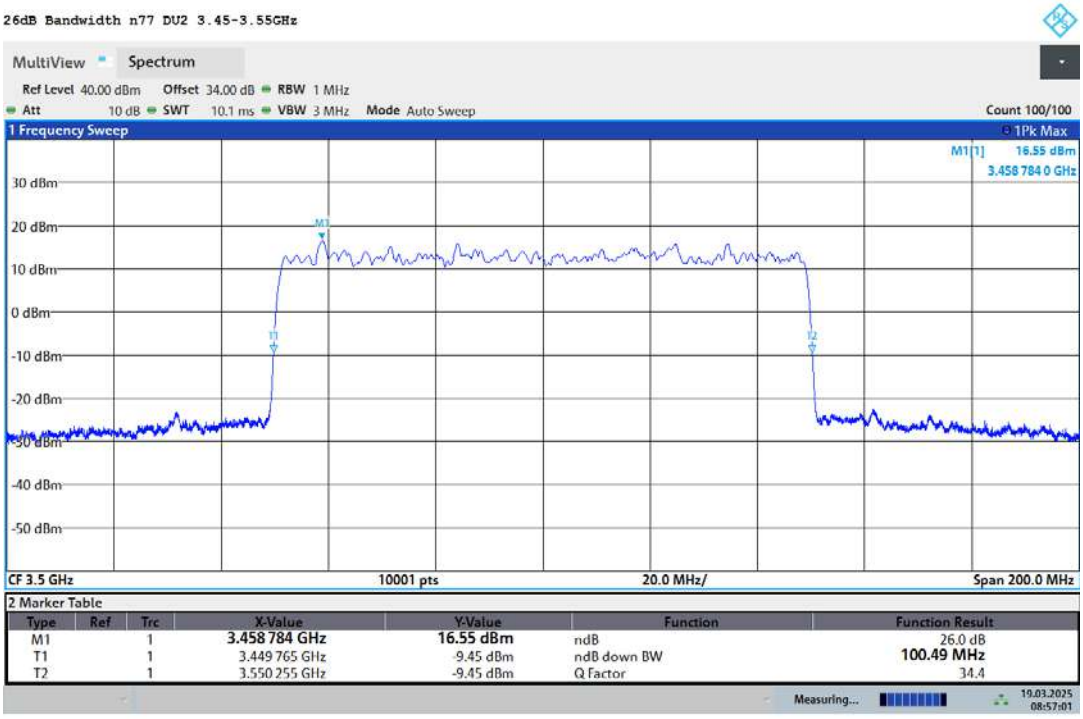
26dB Bandwidth n77 DU2 3.45-3.55GHz



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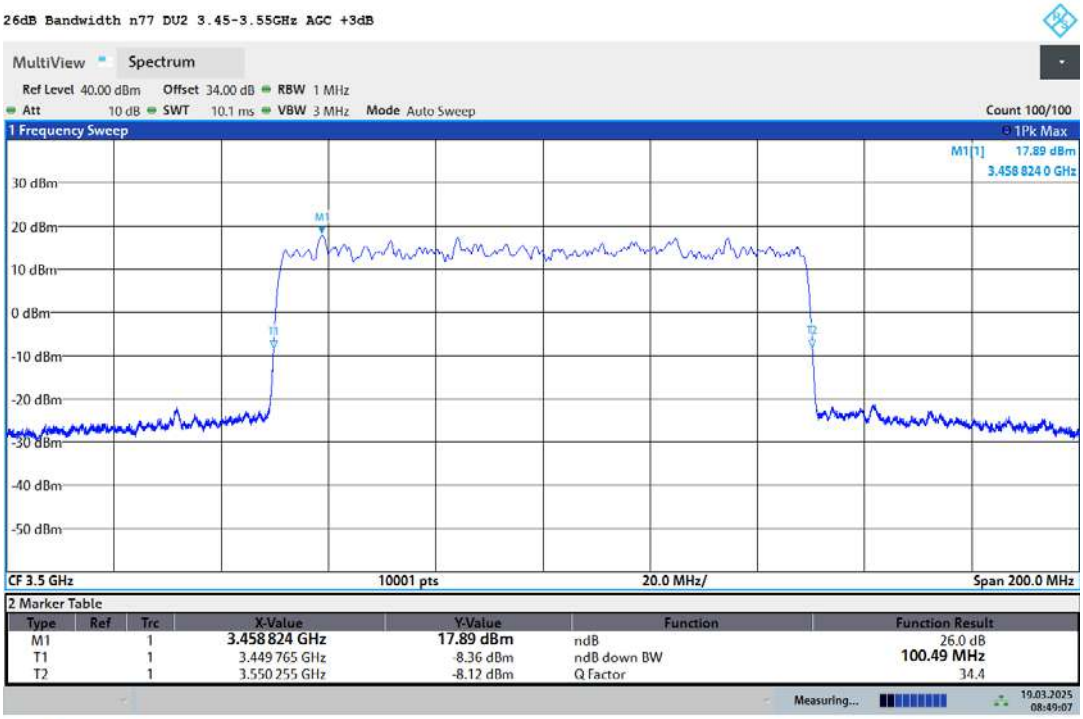
26dB Bandwidth n77 DU2 3.45-3.55GHz AGC +3dB



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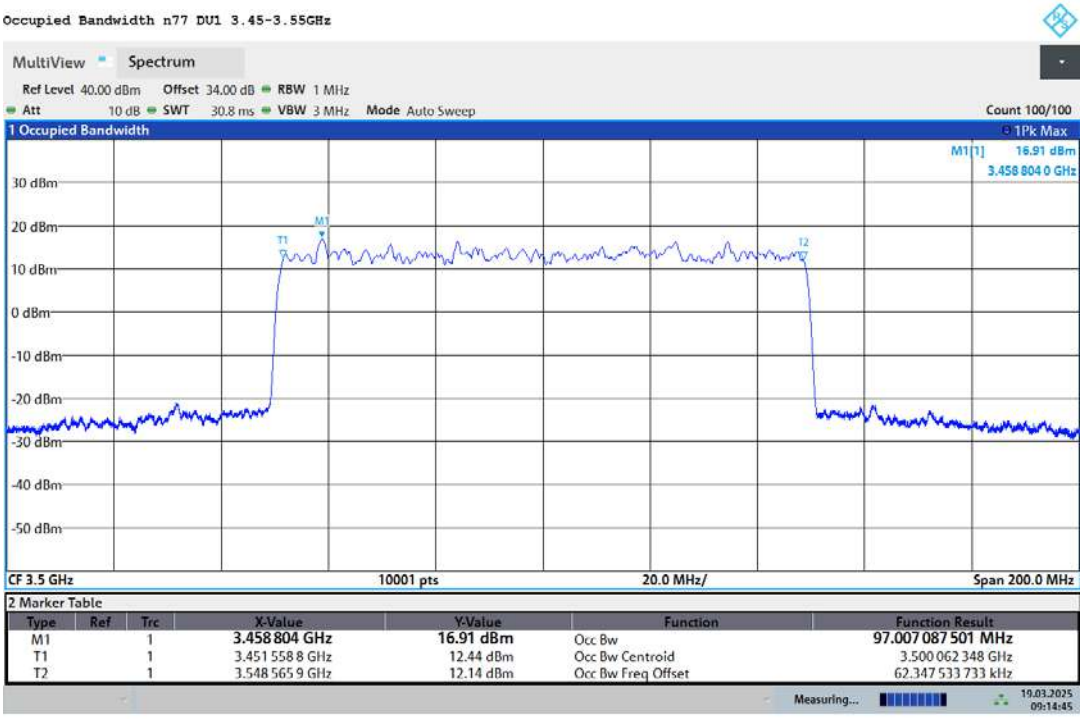

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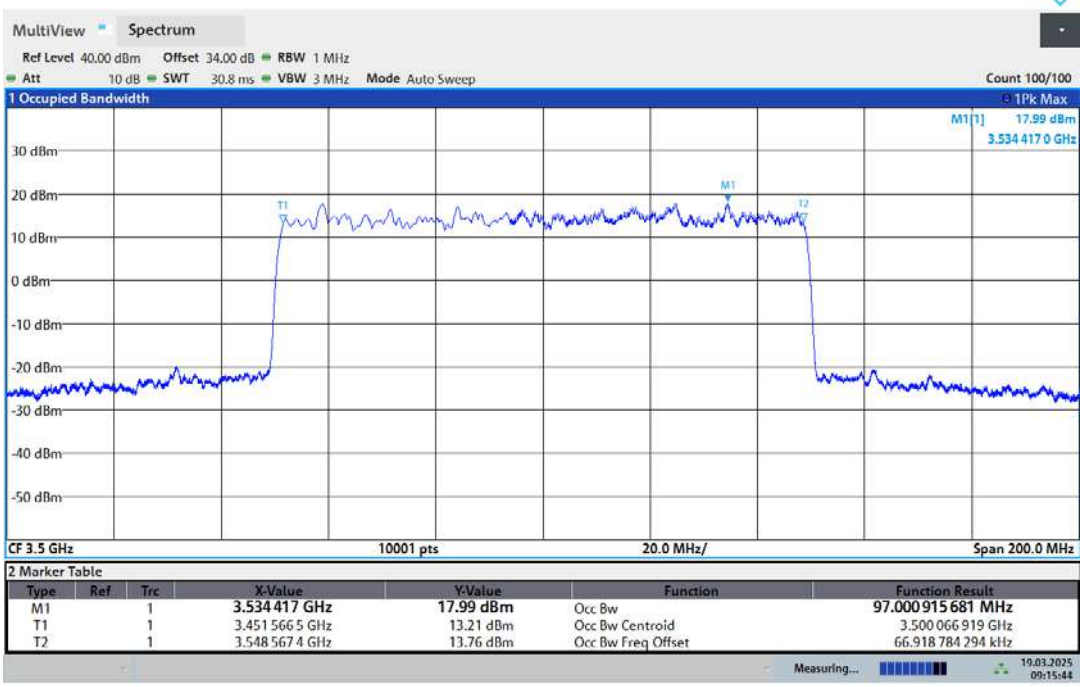

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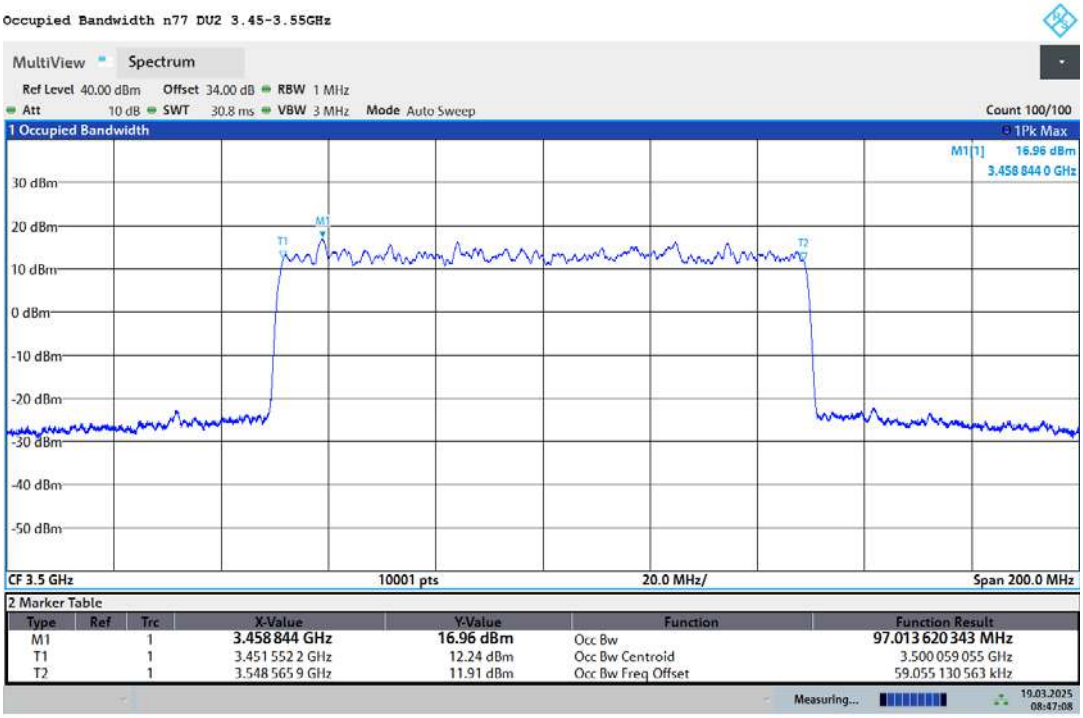

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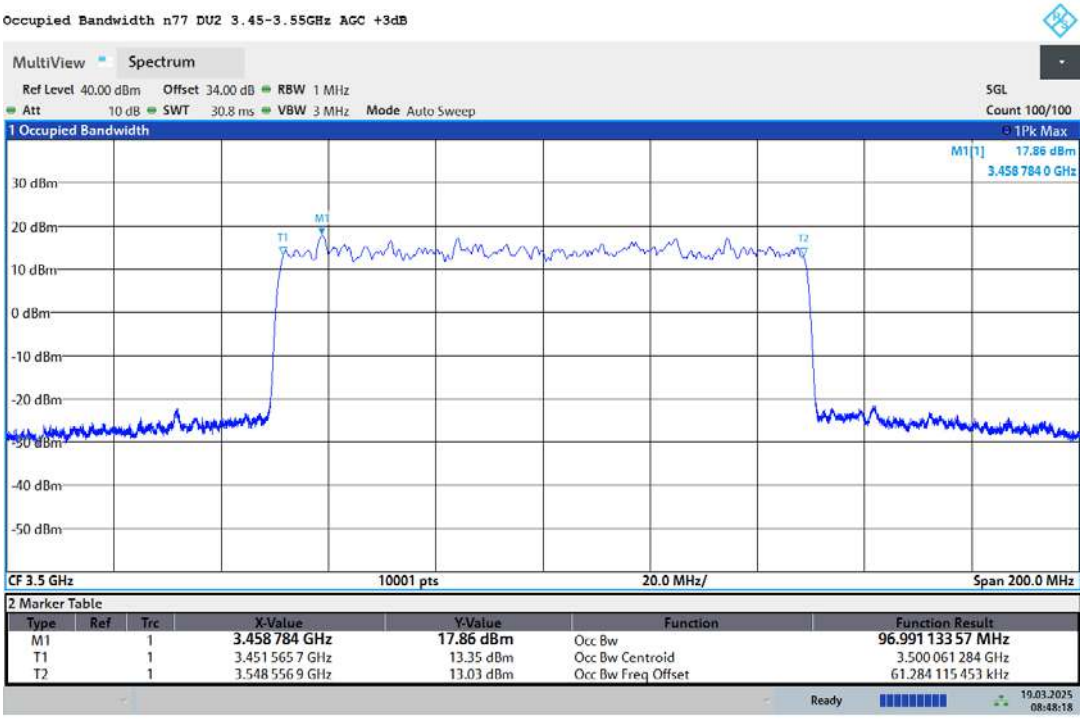
Occupied Bandwidth n77 DU2 3.45-3.55GHz AGC +3dB



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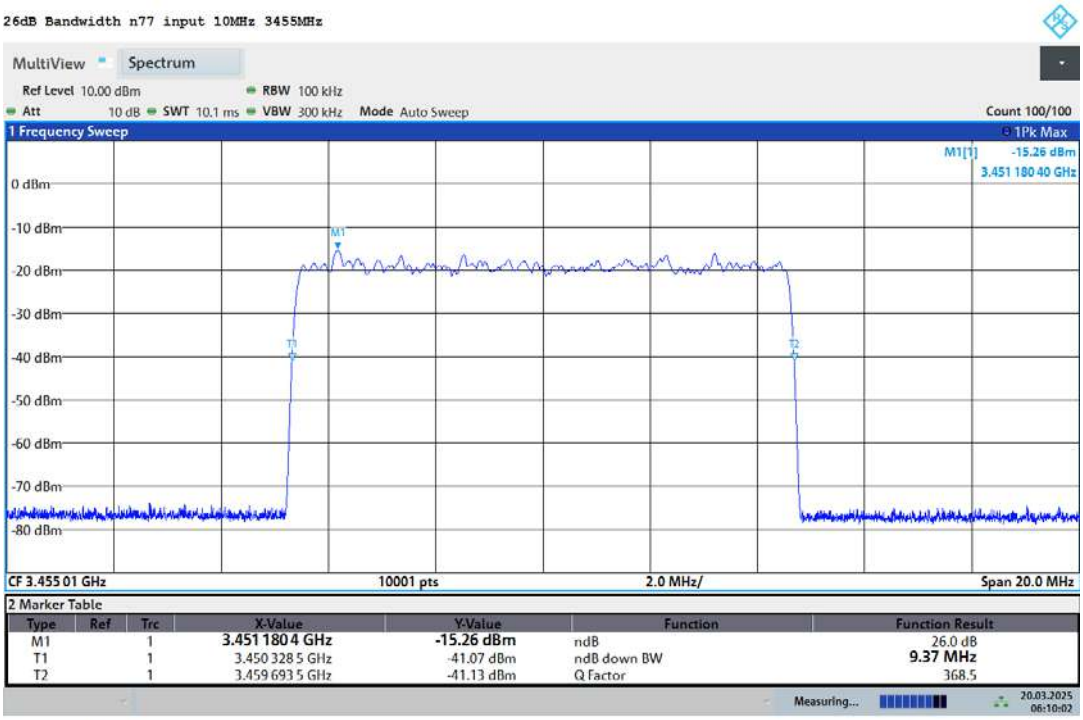
INPUT

26dB Bandwidth n77 input 10MHz 3455MHz



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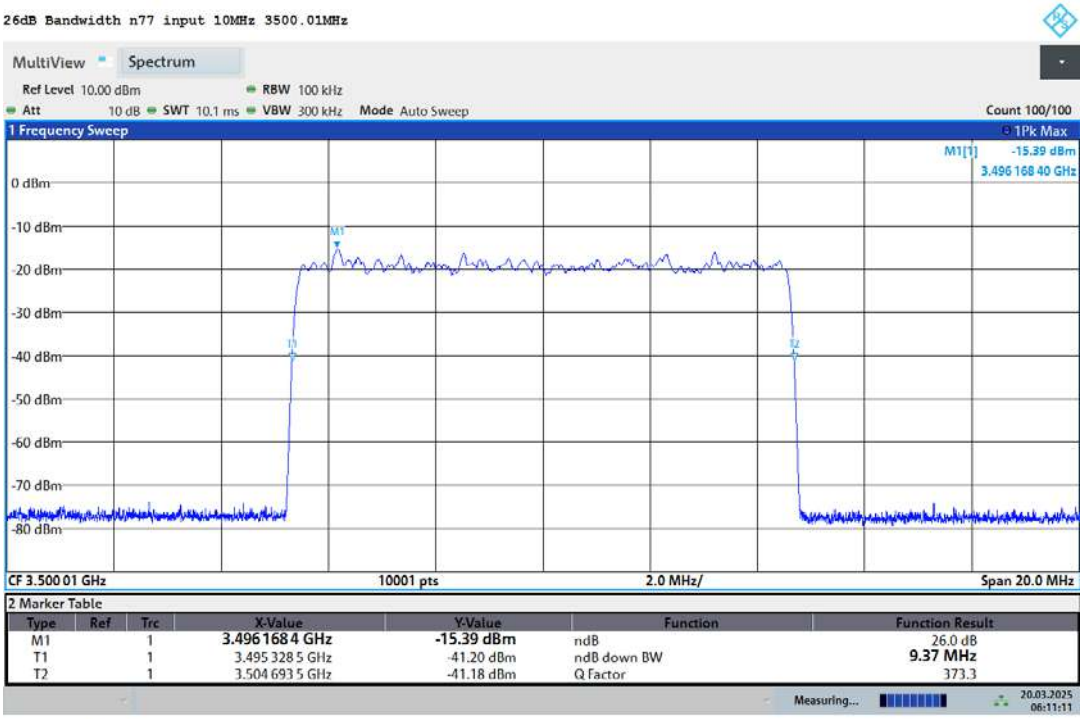
26dB Bandwidth n77 input 10MHz 3500.01MHz



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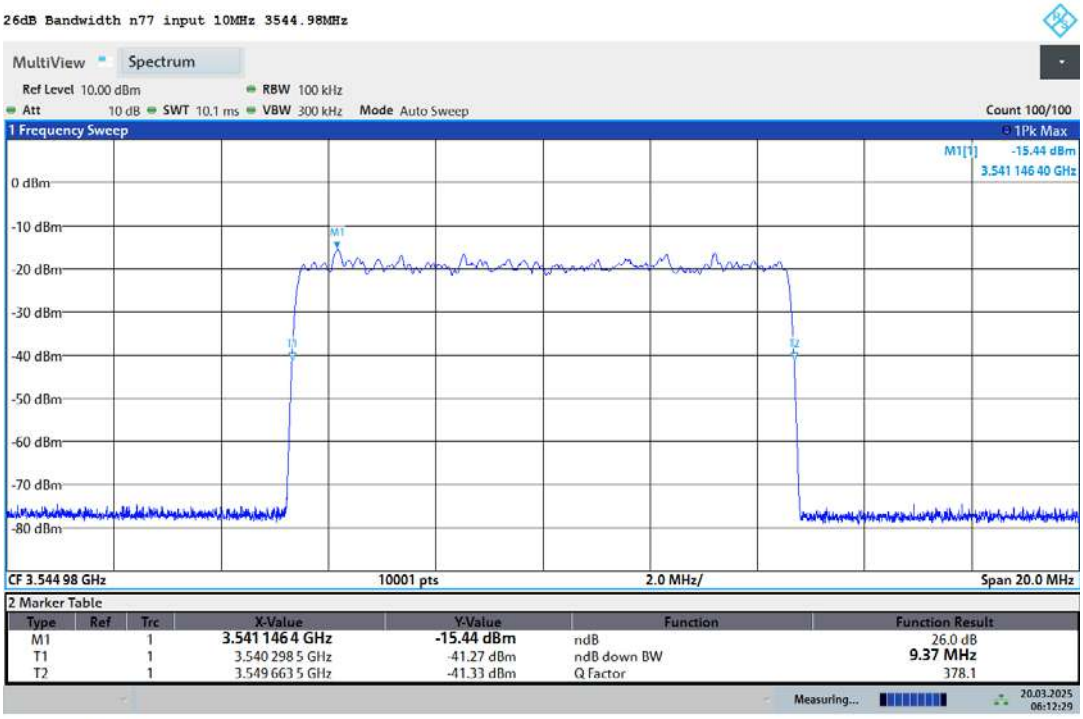
26dB Bandwidth n77 input 10MHz 3544.98MHz



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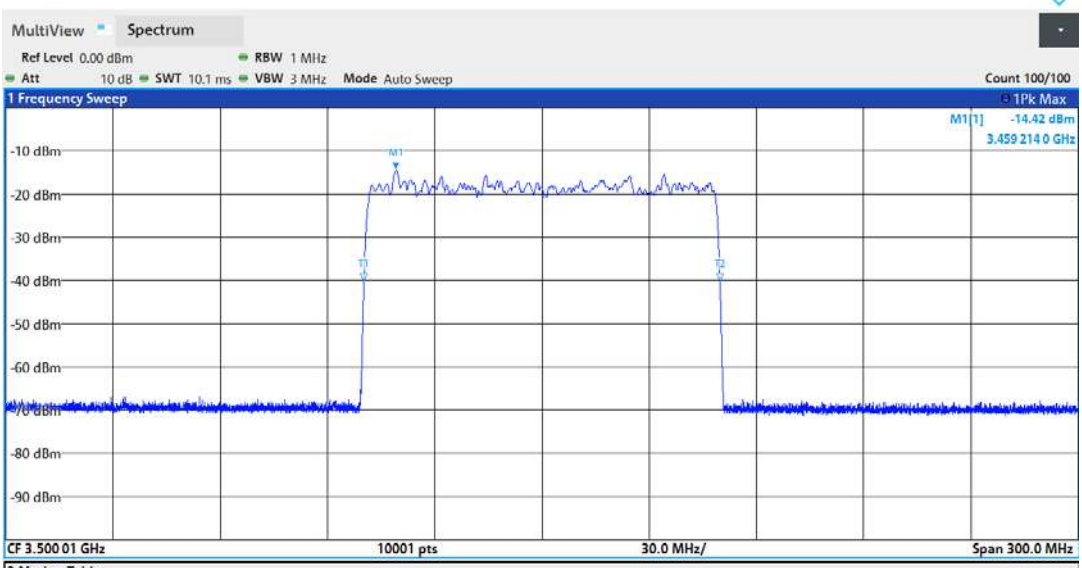
26dB Bandwidth n77 input 100MHz 3500.01MHz



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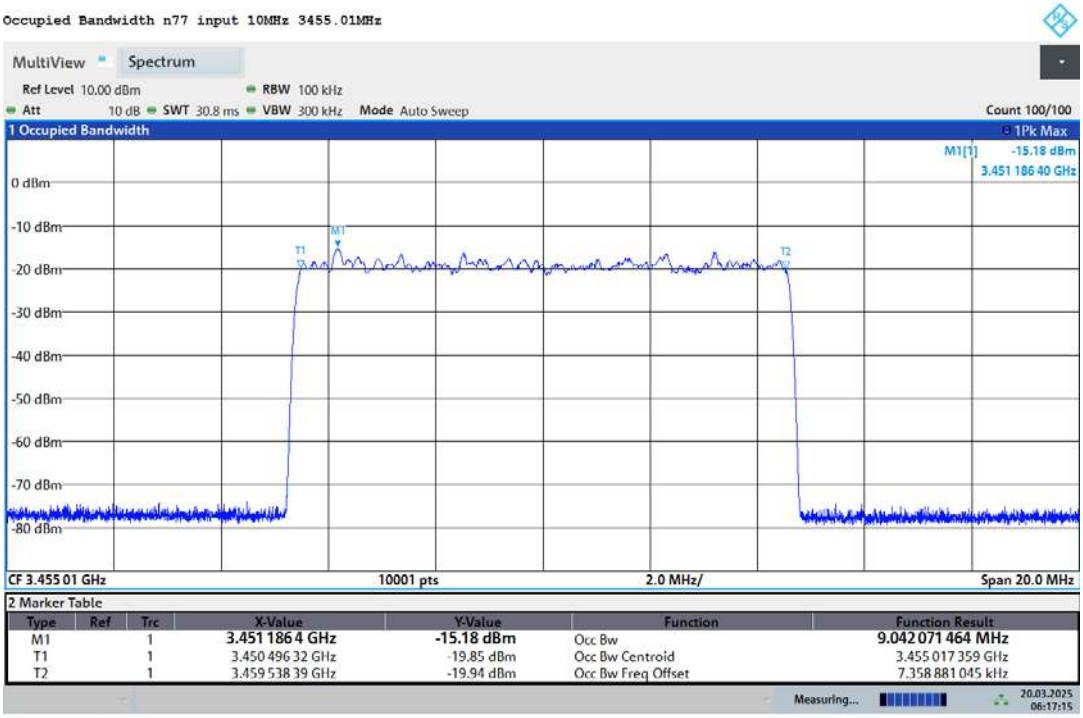
Occupied Bandwidth n77 input 10MHz 3455.01MHz



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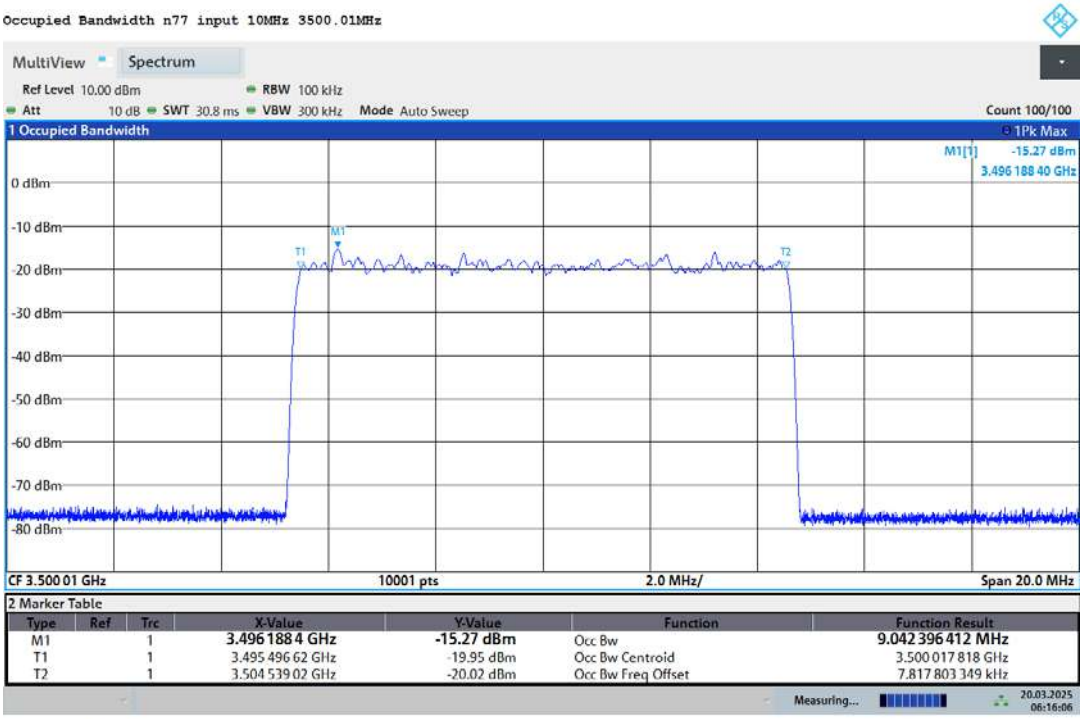
Occupied Bandwidth n77 input 10MHz 3500.01MHz



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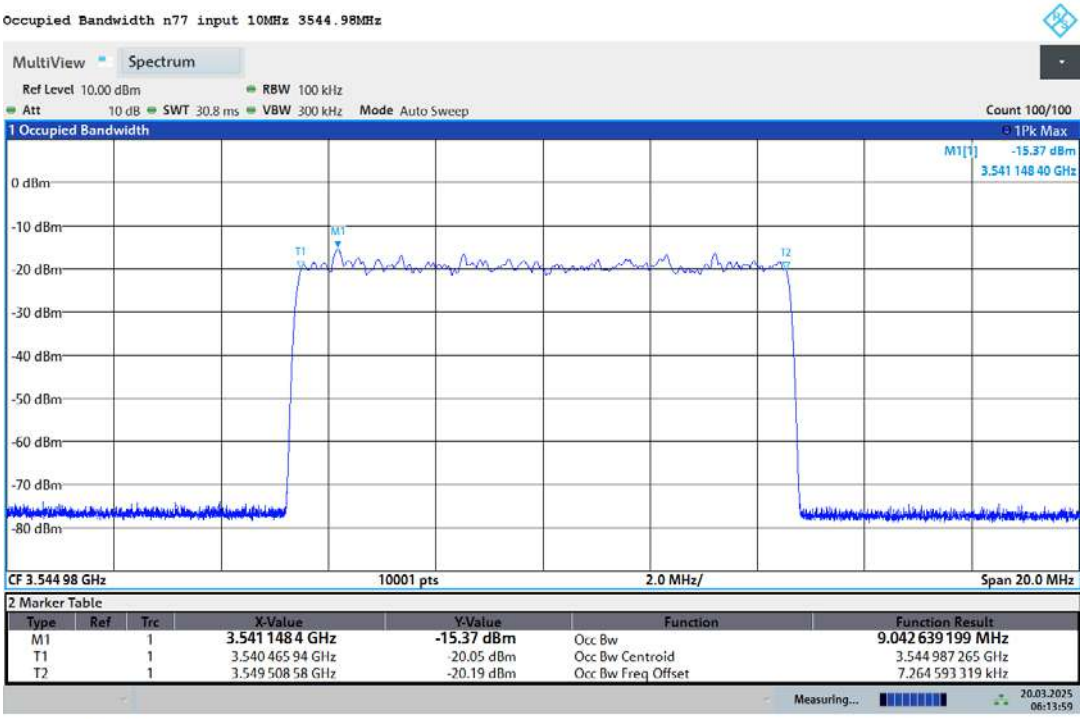
Occupied Bandwidth n77 input 10MHz 3544.98MHz



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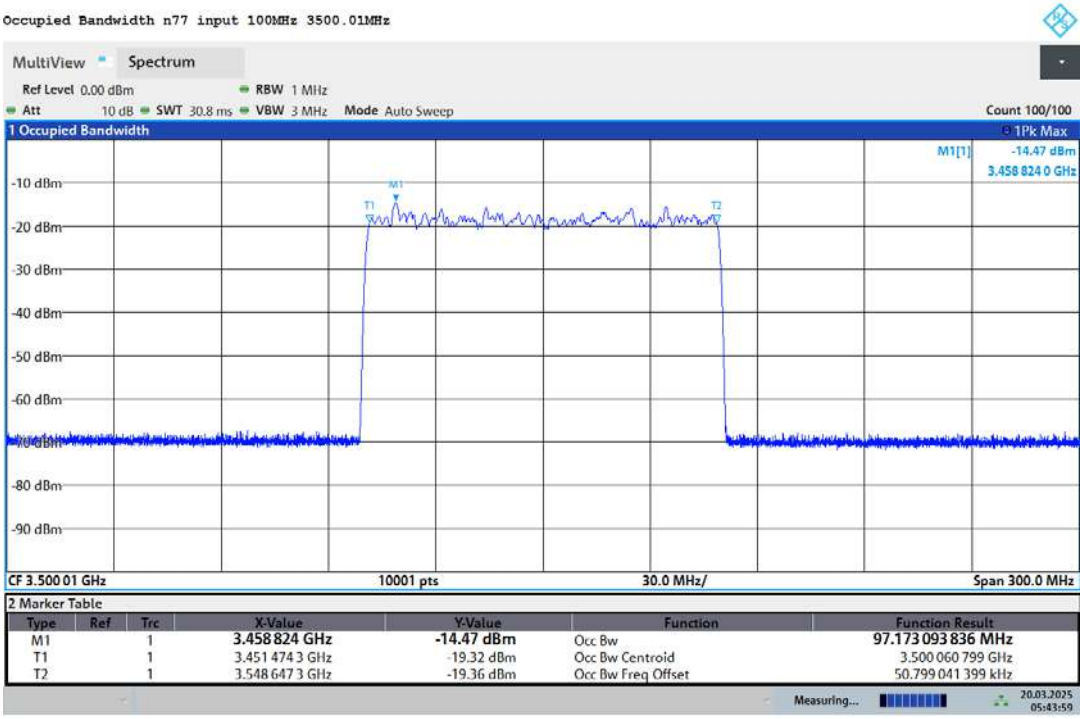
Occupied Bandwidth n77 input 100MHz 3500.01MHz



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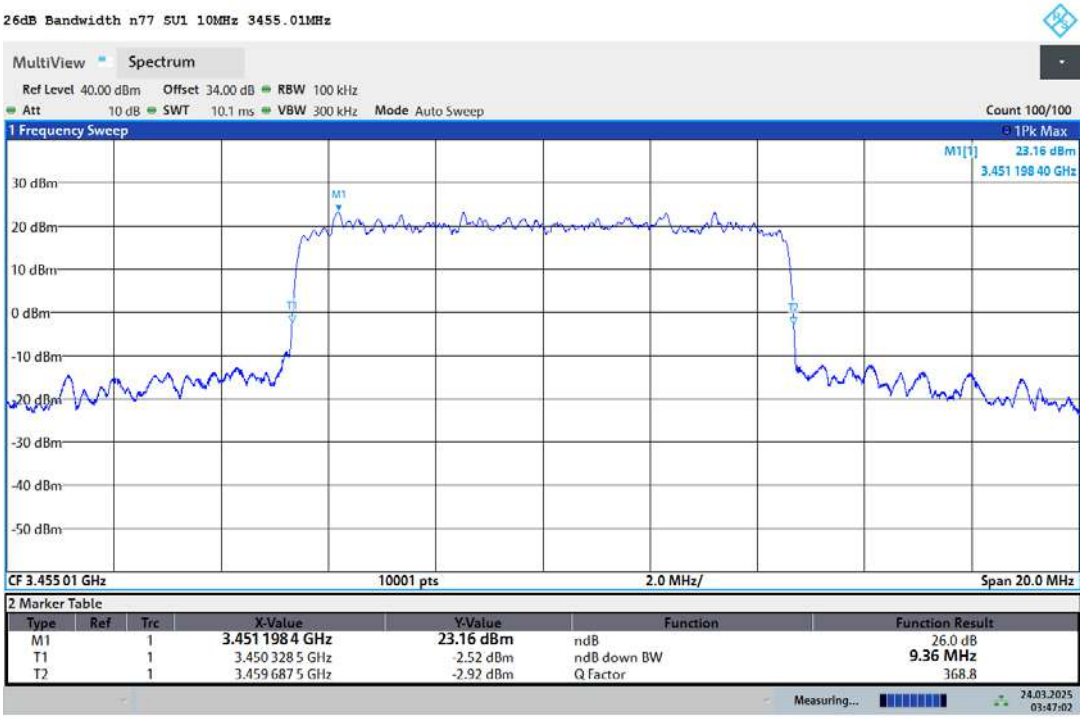
SU
10M

26dB Bandwidth n77 SU1 10MHz 3455.01MHz



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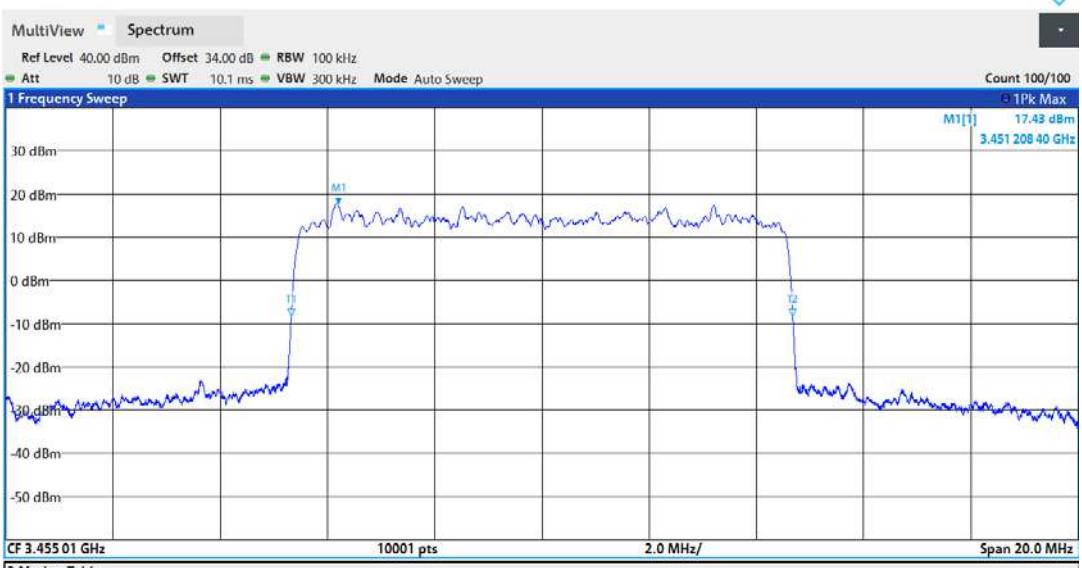
26dB Bandwidth n77 SU1 10MHz 3455.01MHz AGC+3dB



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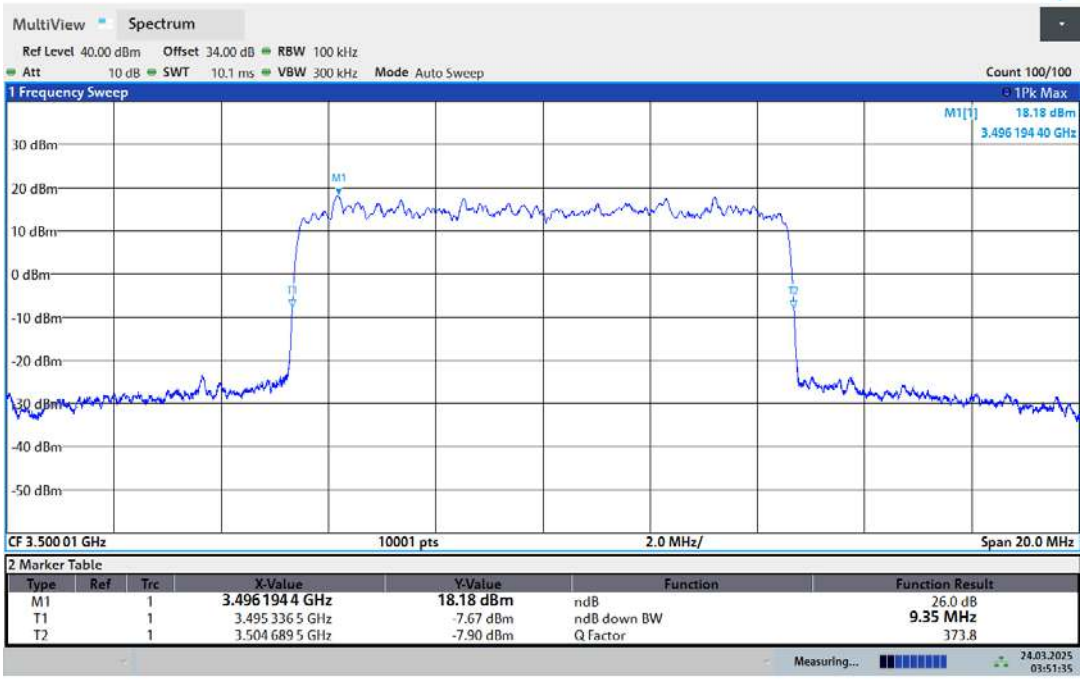
26dB Bandwidth n77 SU1 10MHz 3500.01MHz



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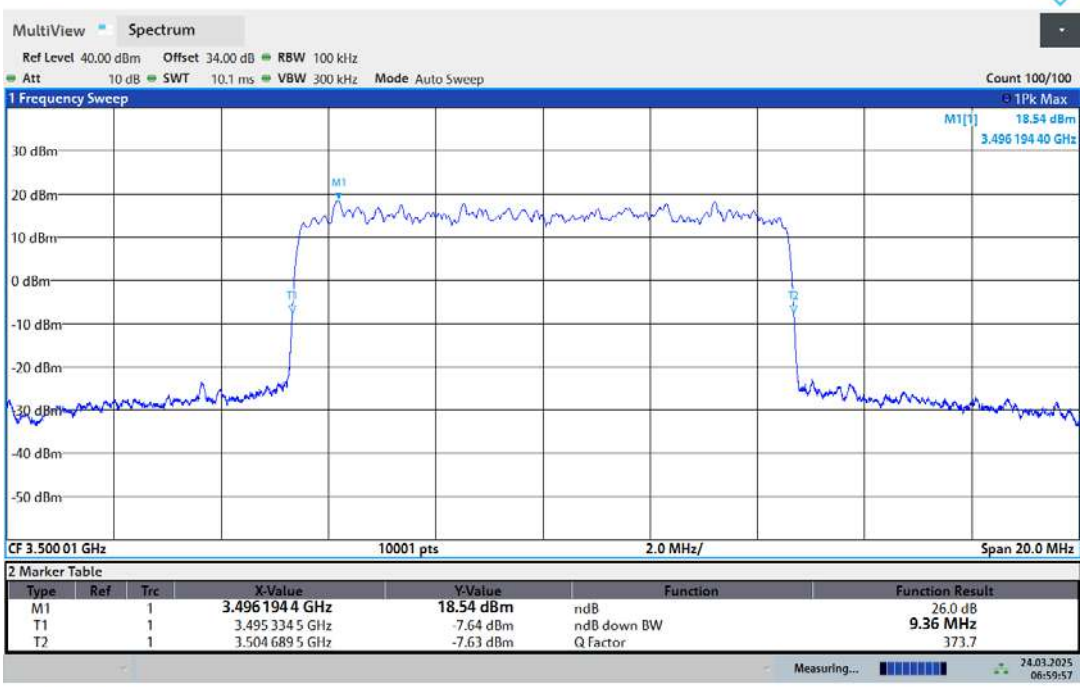
26dB Bandwidth n77 5U1 10MHz 3500.01MHz AGC+3dB



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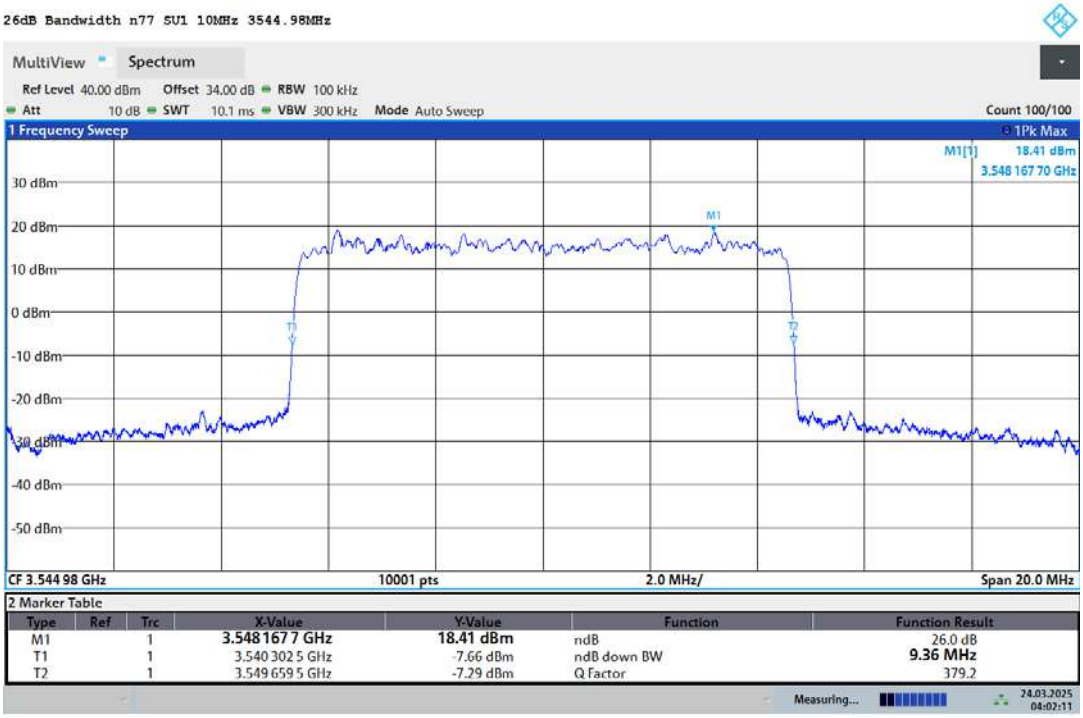
26dB Bandwidth n77 5U1 10MHz 3544.98MHz



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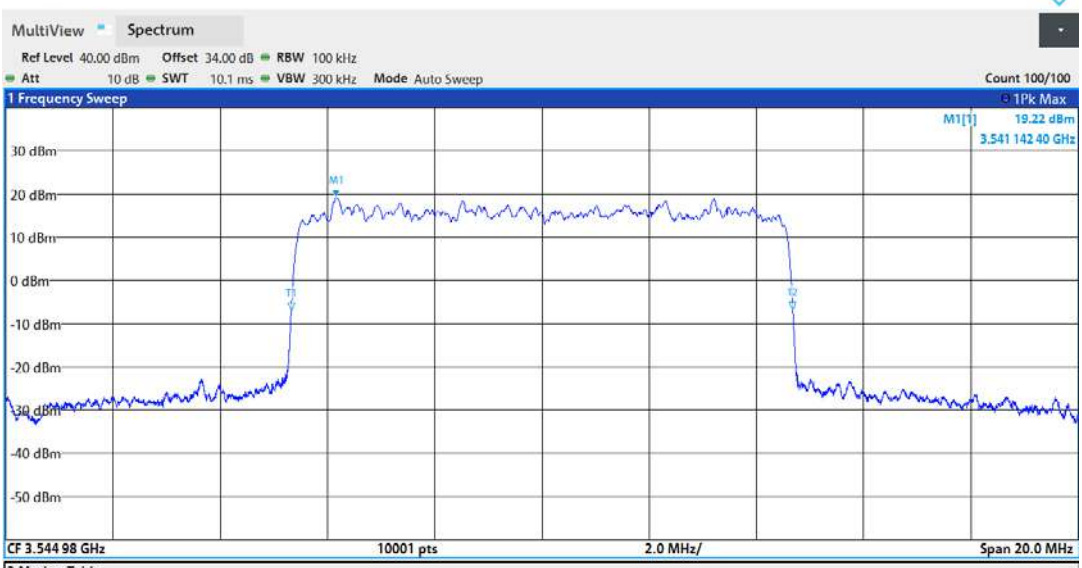
26dB Bandwidth n77 SU1 10MHz 3544.98MHz AGC+3dB



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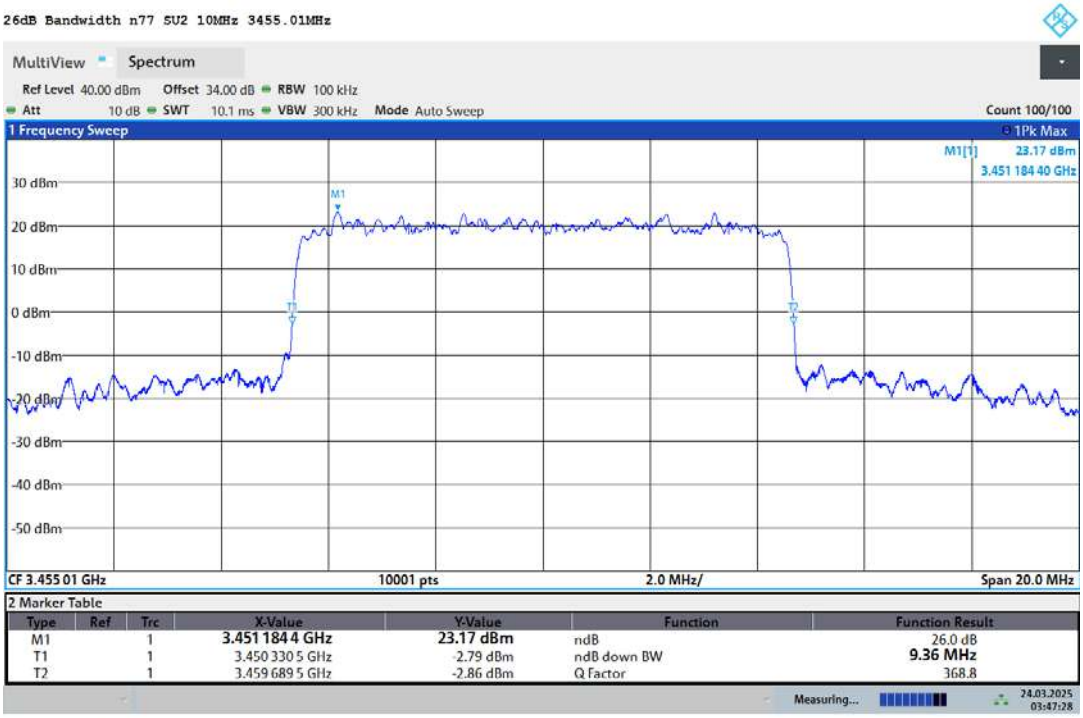
26dB Bandwidth n77 SU2 10MHz 3455.01MHz



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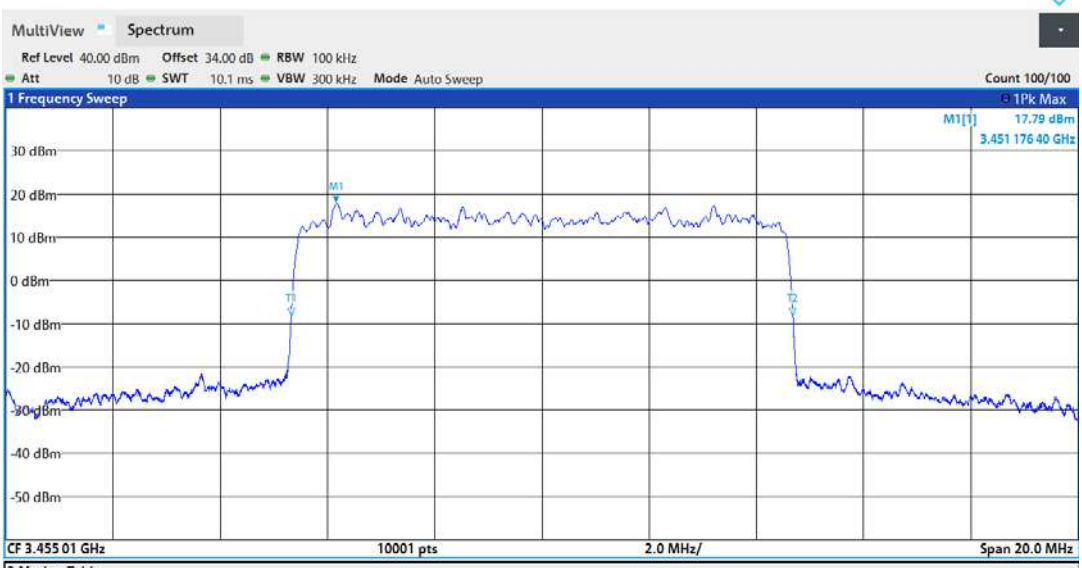
26dB Bandwidth n77 SU2 10MHz 3455.01MHz AGC+3dB



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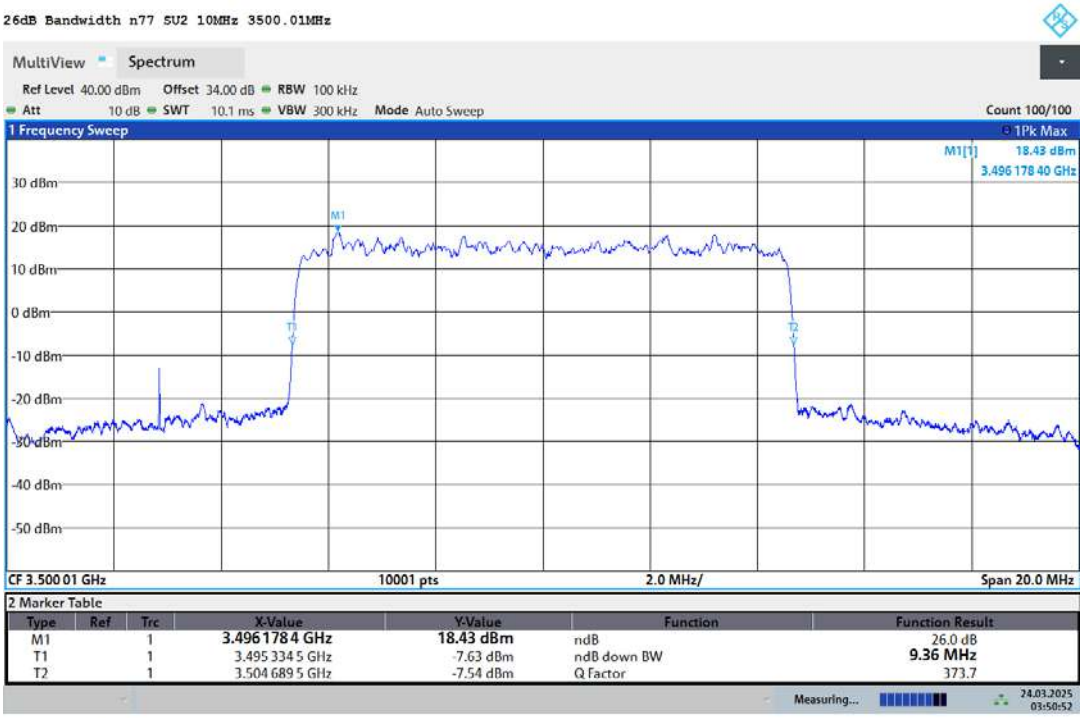
26dB Bandwidth n77 SU2 10MHz 3500.01MHz



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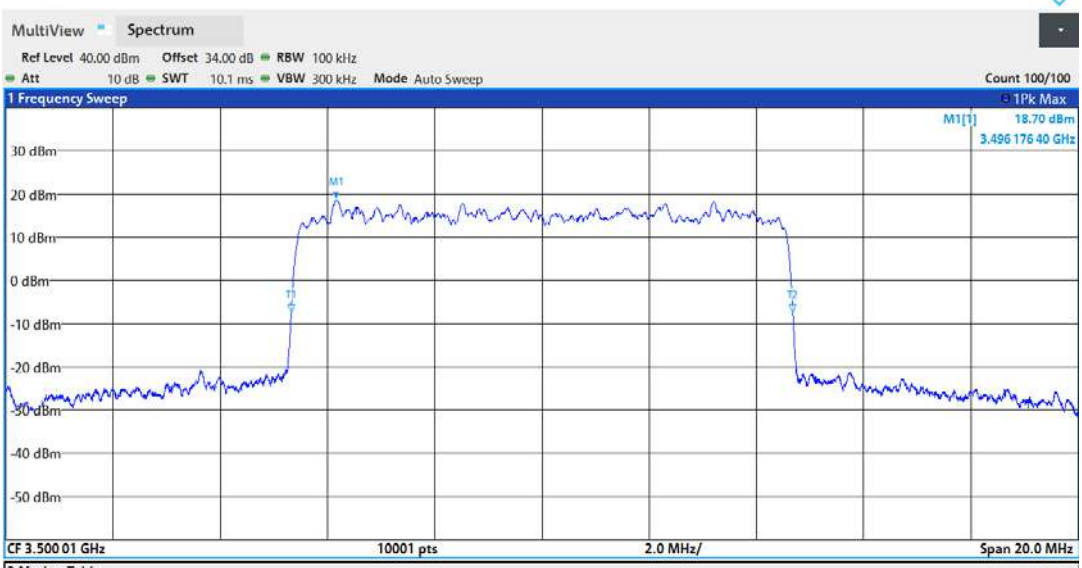
26dB Bandwidth n77 5U2 10MHz 3500.01MHz AGC+3dB



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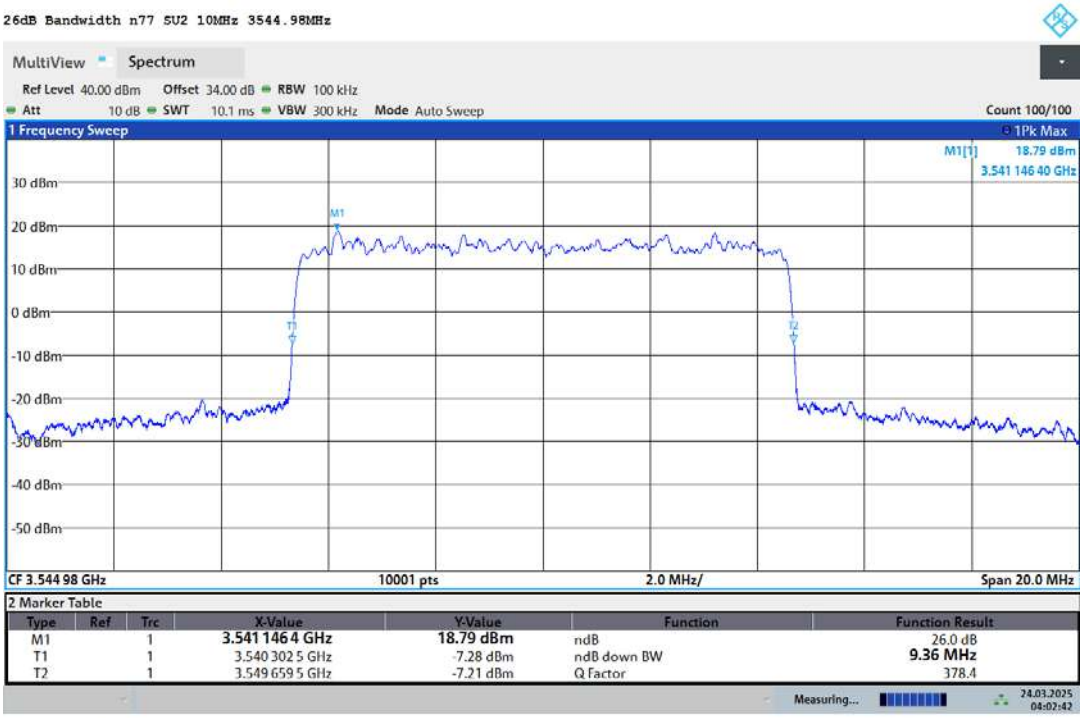
26dB Bandwidth n77 5U2 10MHz 3544.98MHz



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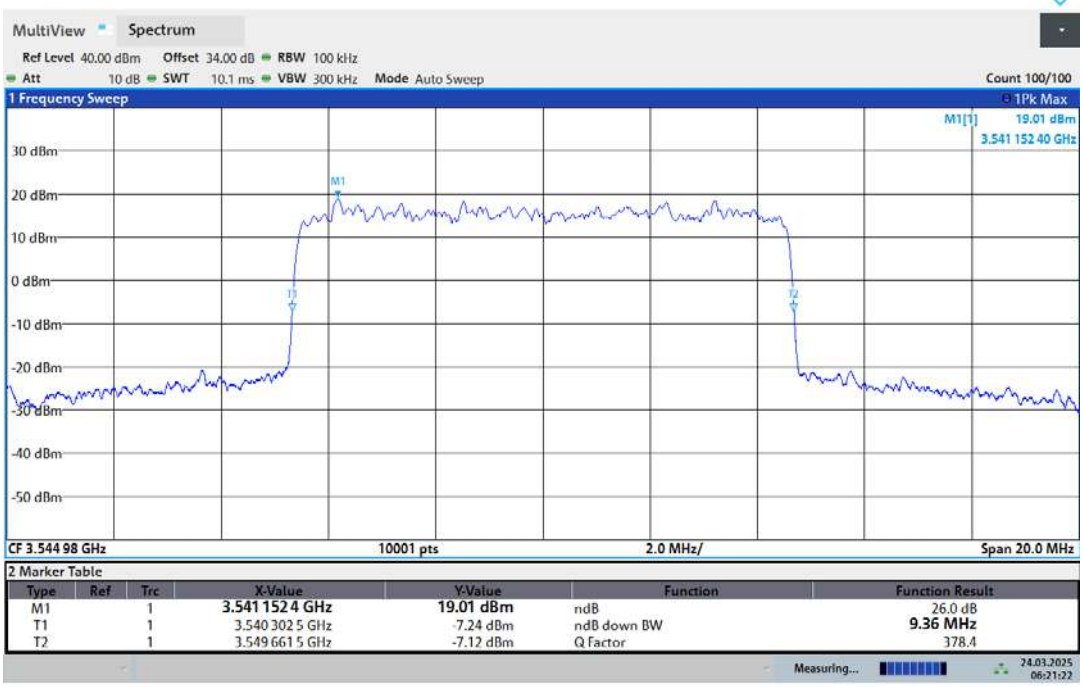
26dB Bandwidth n77 SU2 10MHz 3544.98MHz AGC+3dB



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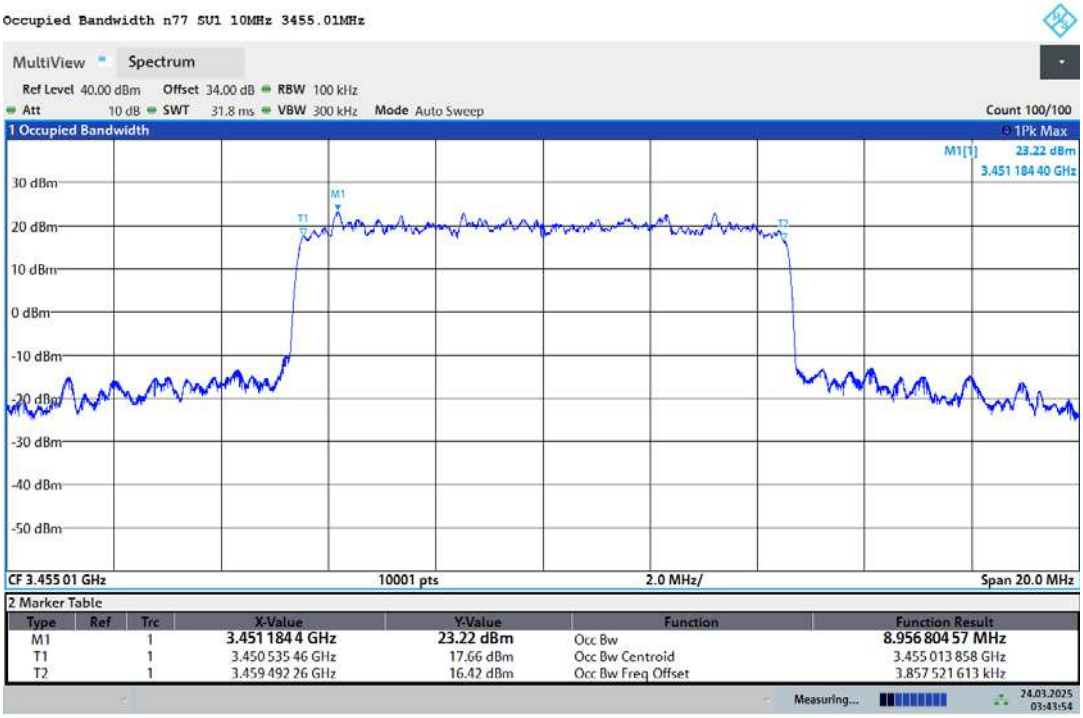
Occupied Bandwidth n77 SU1 10MHz 3455.01MHz



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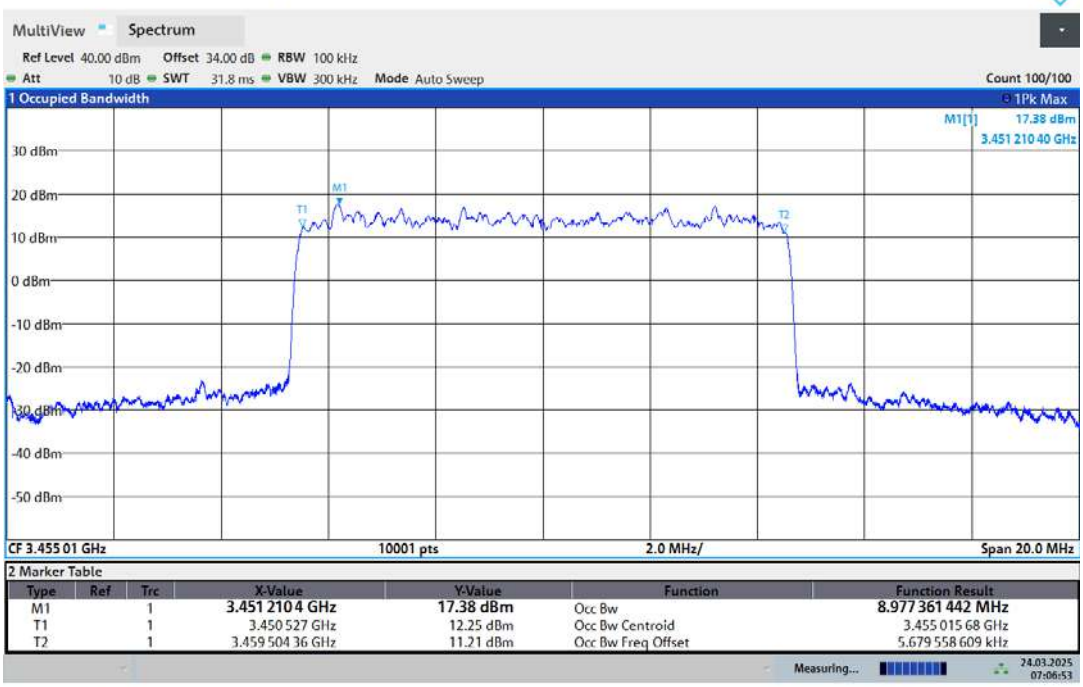
Occipied Bandwidth n77 SU1 10MHz 3455.01MHz AGC+3dB



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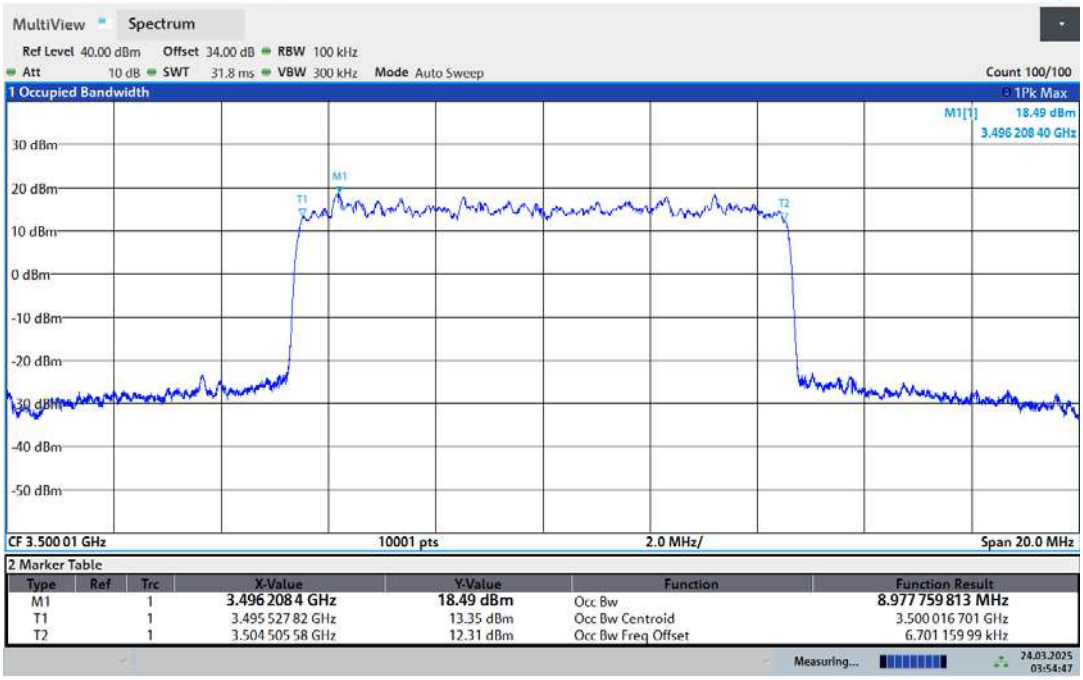
Occupied Bandwidth n77 SU1 10MHz 3500.01MHz



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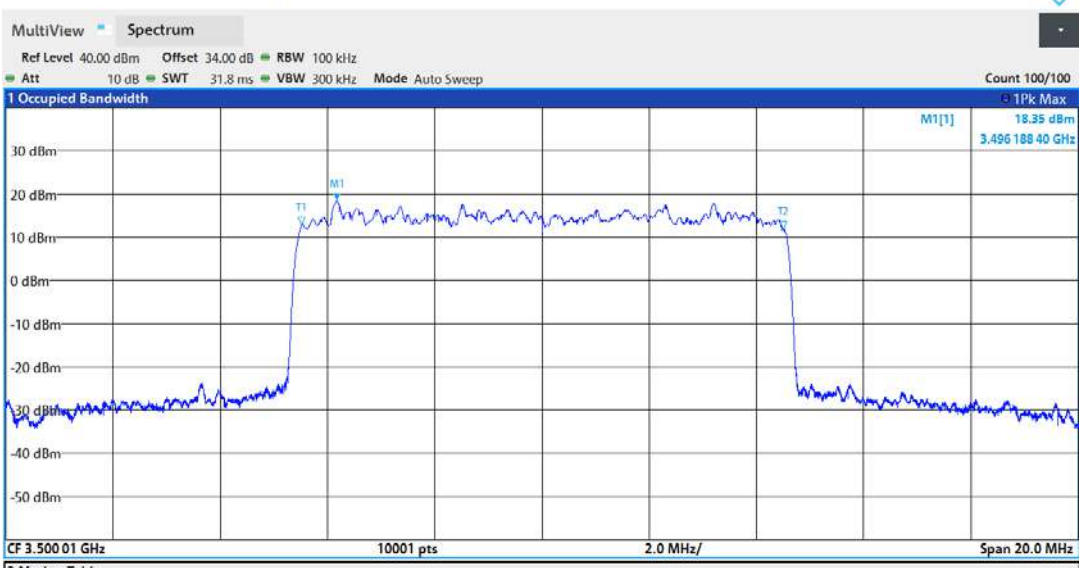
Occupied Bandwidth n77 SU1 10MHz 3500.01MHz AGC+3dB



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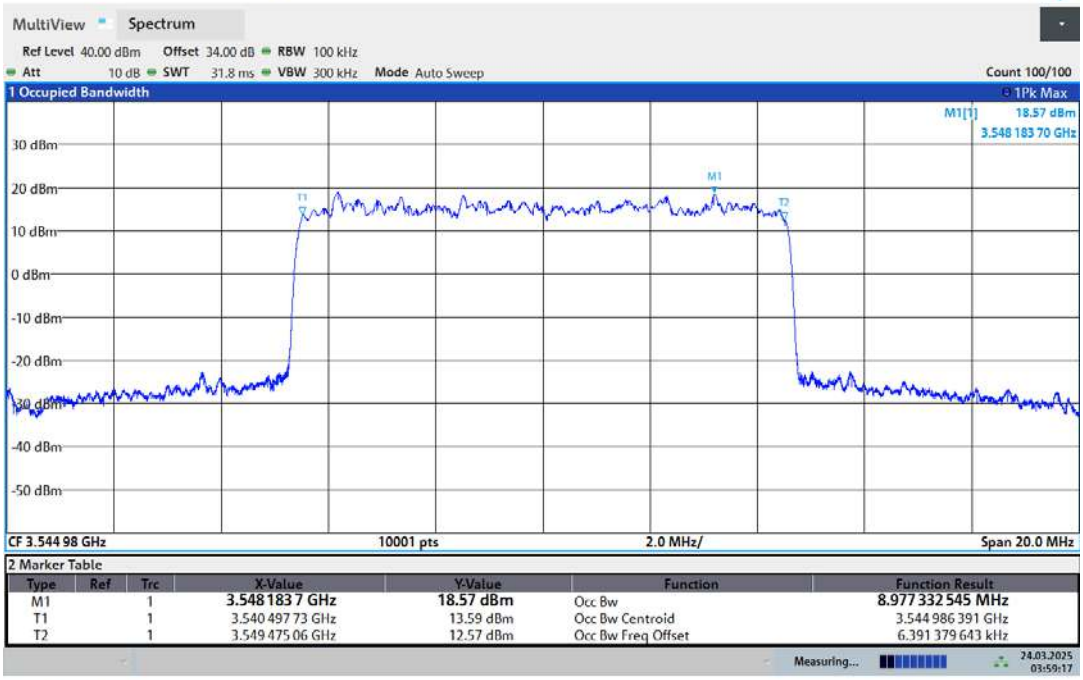
Occupied Bandwidth n77 SU1 10MHz 3544.98MHz



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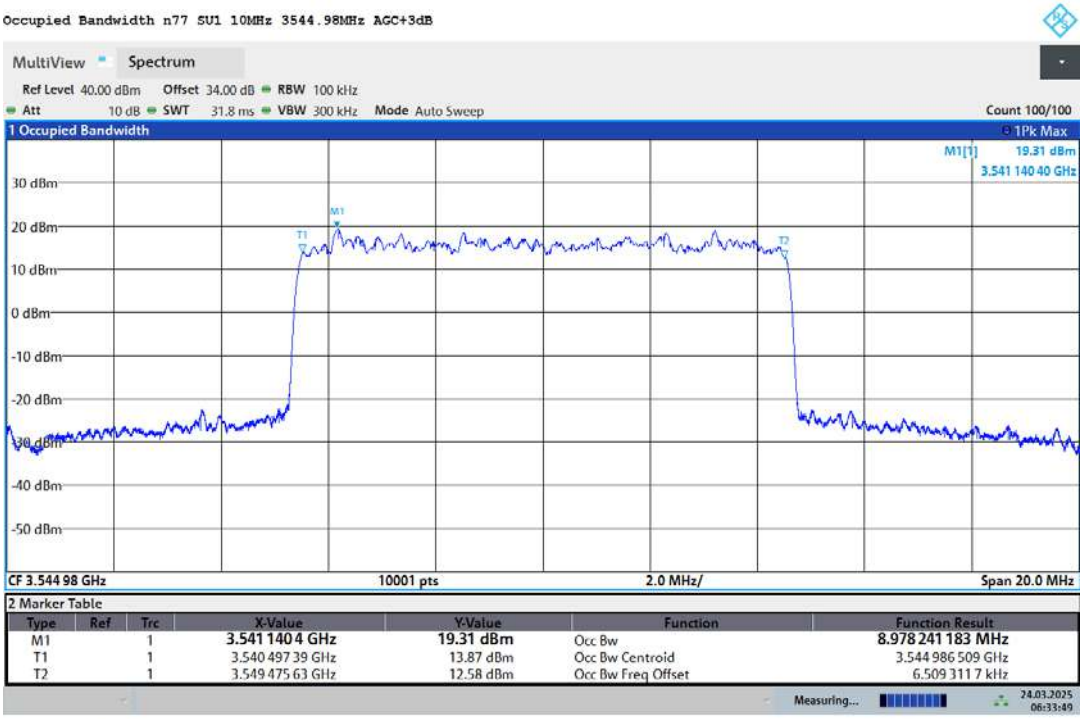
Occupied Bandwidth n77 SU1 10MHz 3544.98MHz AGC+3dB



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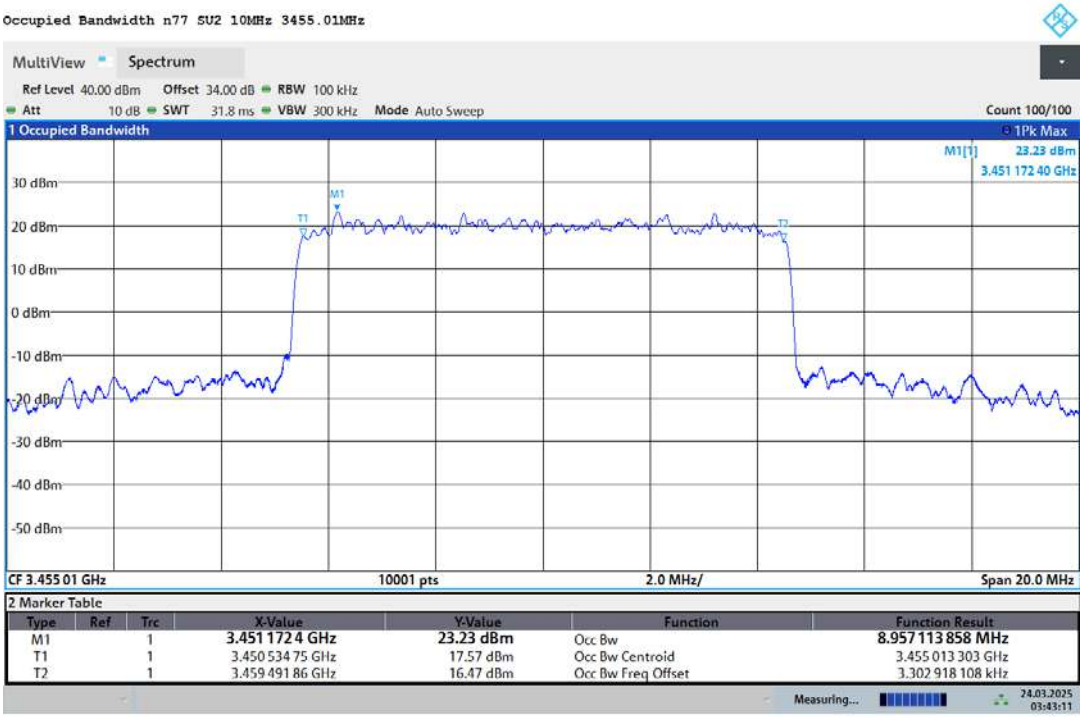
Occupied Bandwidth n77 SU2 10MHz 3455.01MHz



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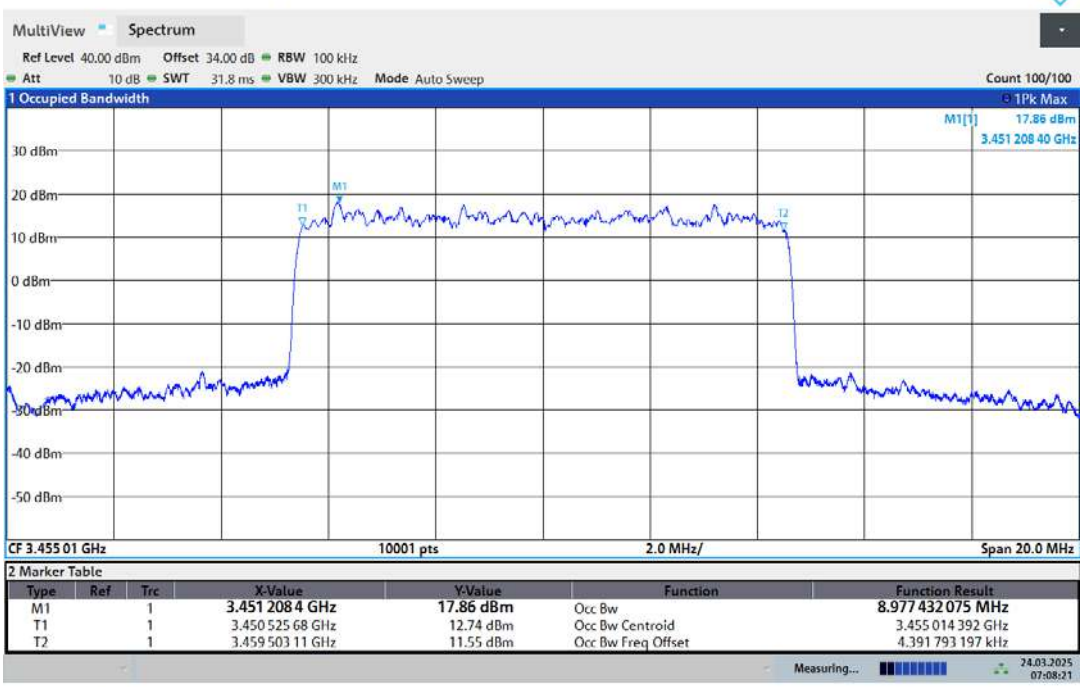
Occipied Bandwidth n77 SU2 10MHz 3455.01MHz AGC+3dB



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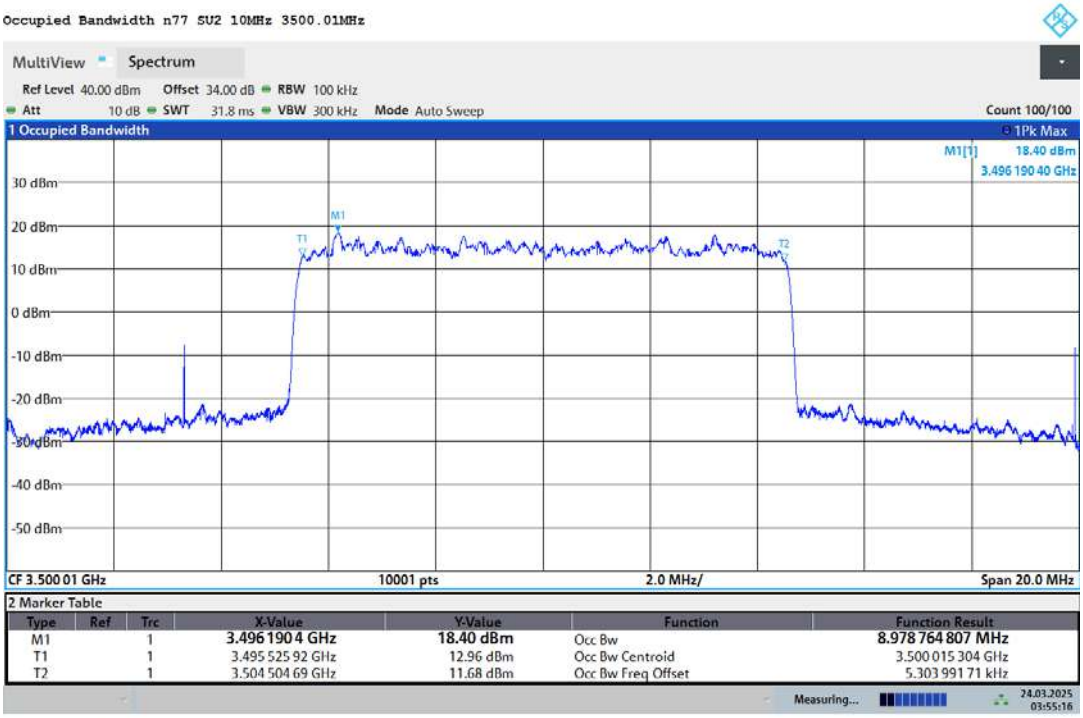

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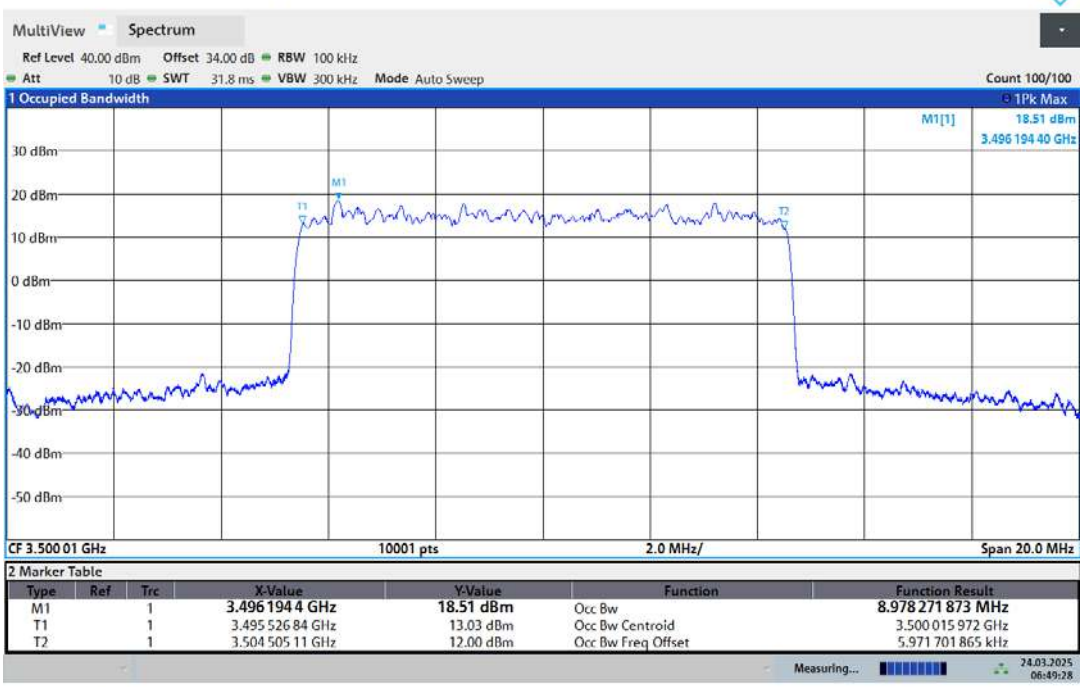

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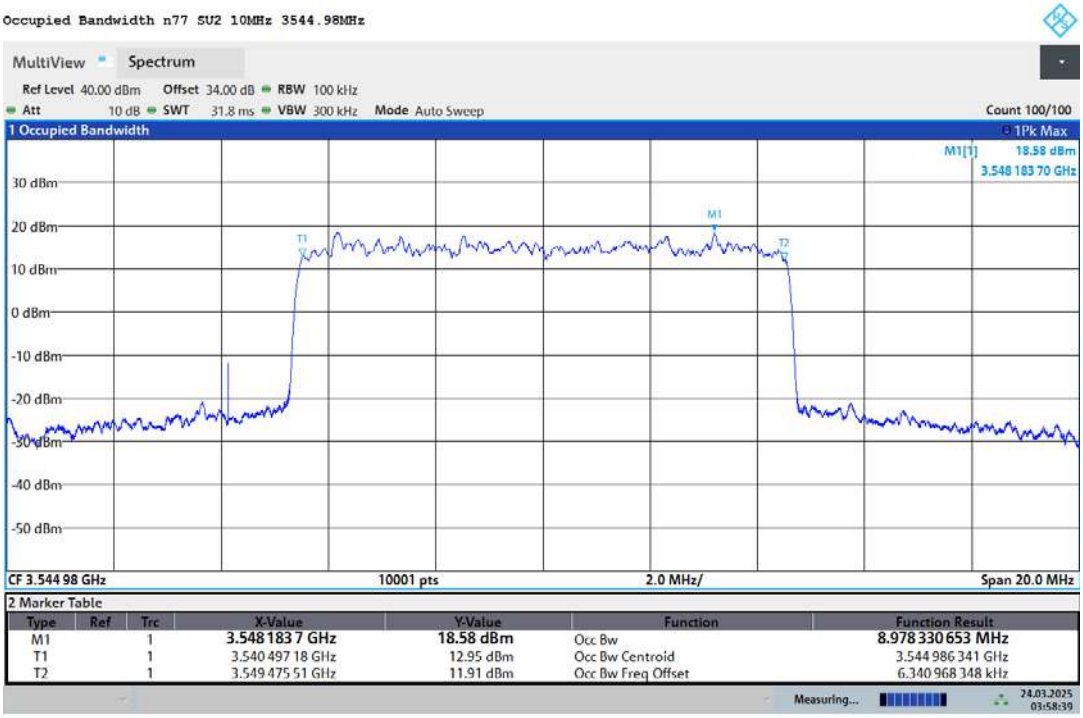

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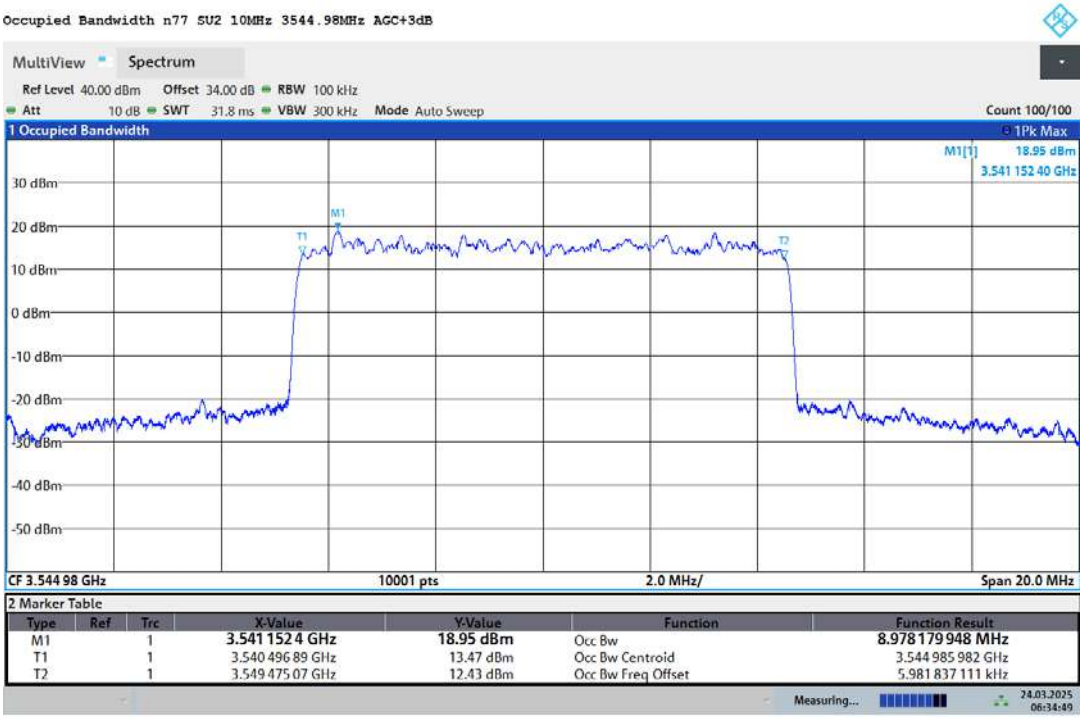
Occupied Bandwidth n77 SU2 10MHz 3544.98MHz AGC+3dB



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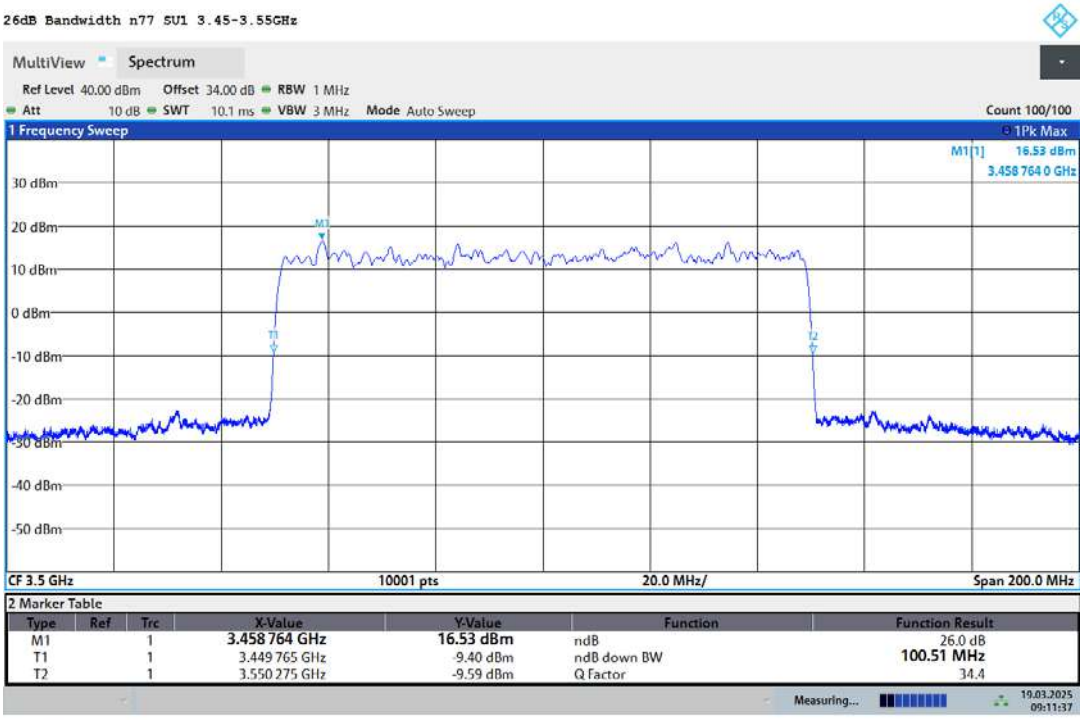
100M

26dB Bandwidth n77 SU1 3.45-3.55GHz



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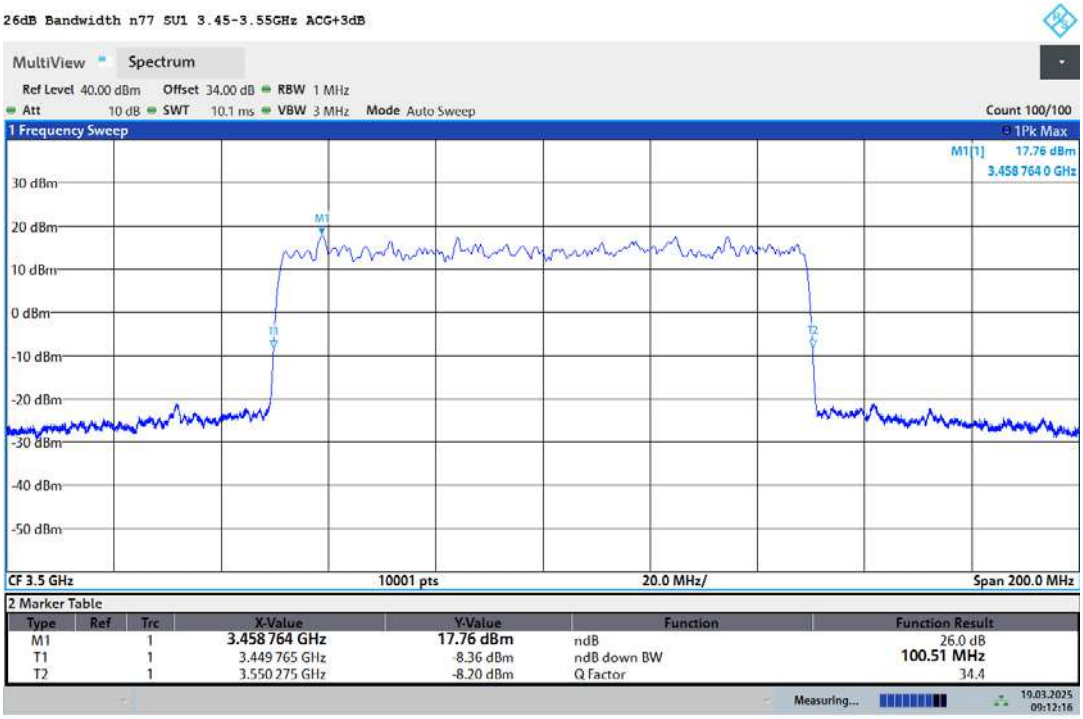
26dB Bandwidth n77 SU1 3.45-3.55GHz ACG+3dB



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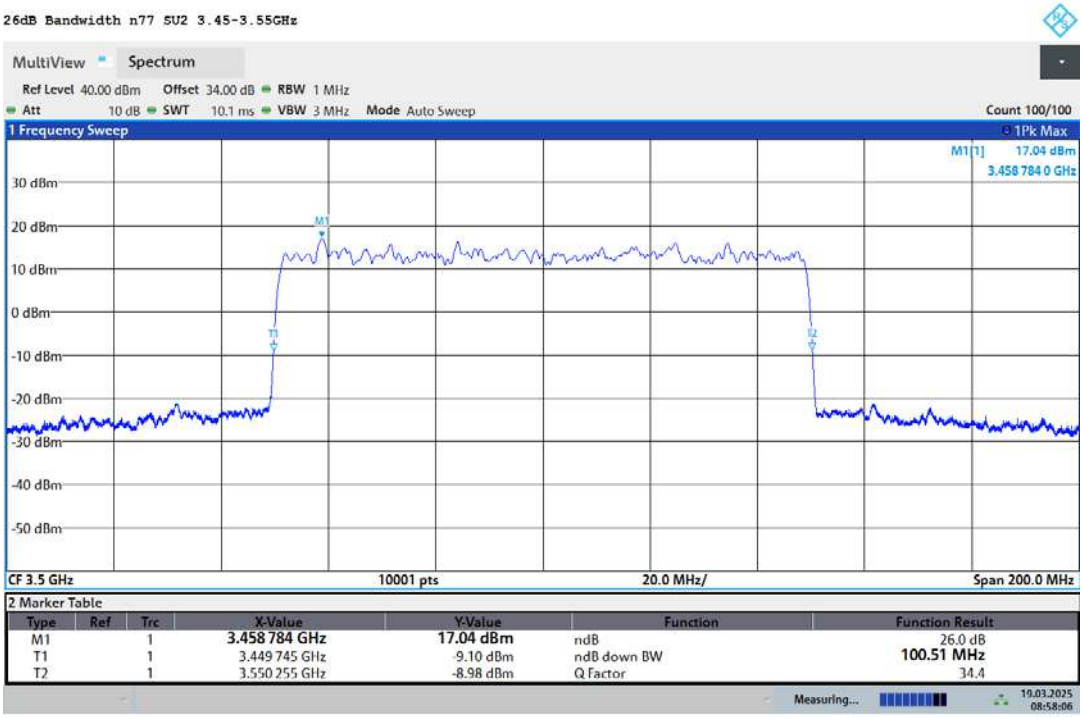

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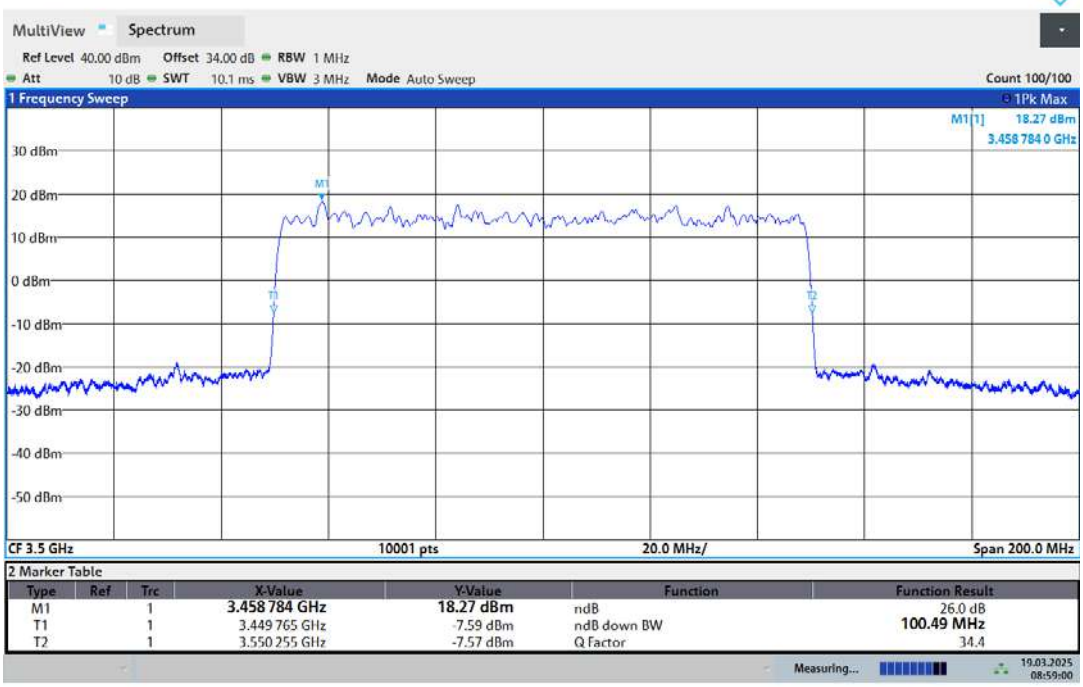
26dB Bandwidth n77 SU2 3.45-3.55GHz AGC +3dB



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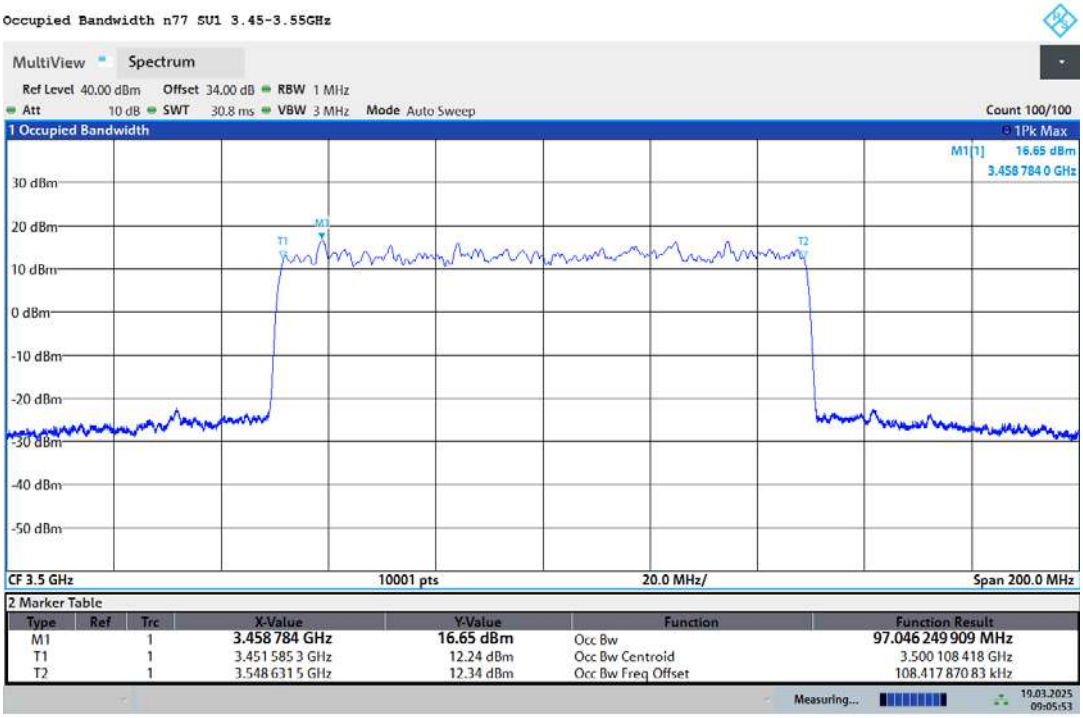

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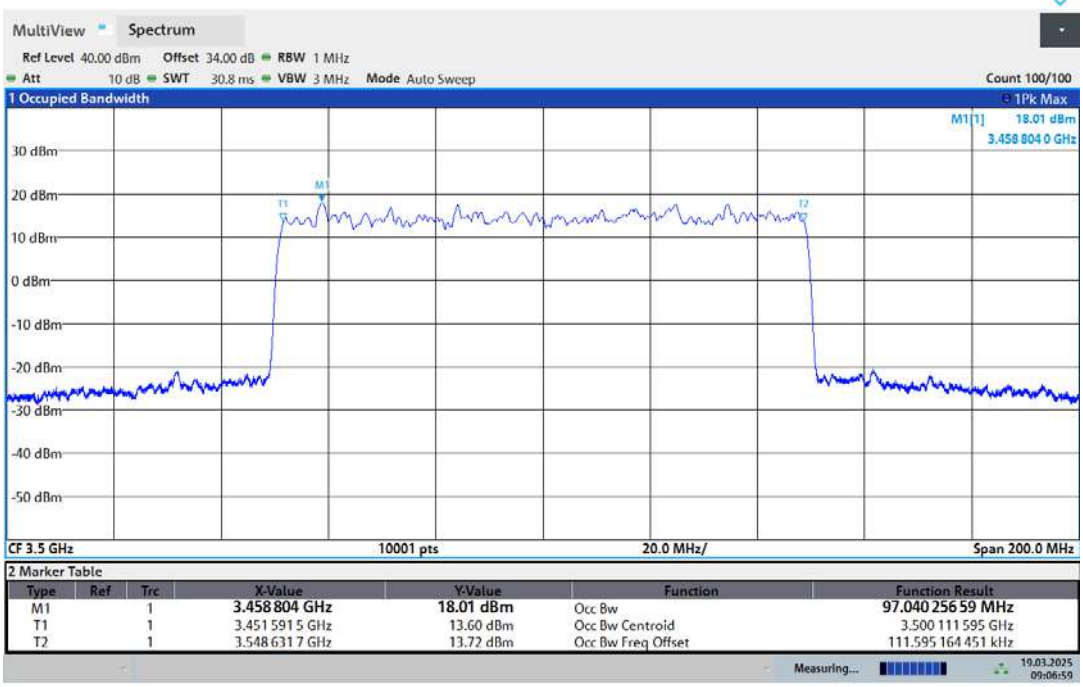

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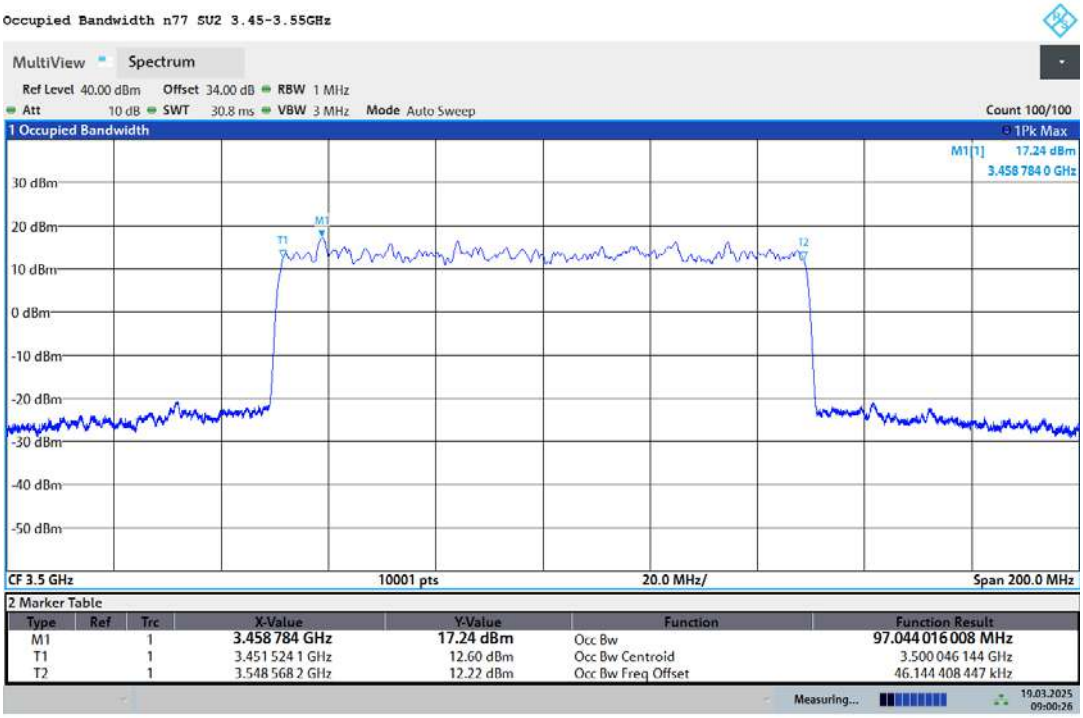

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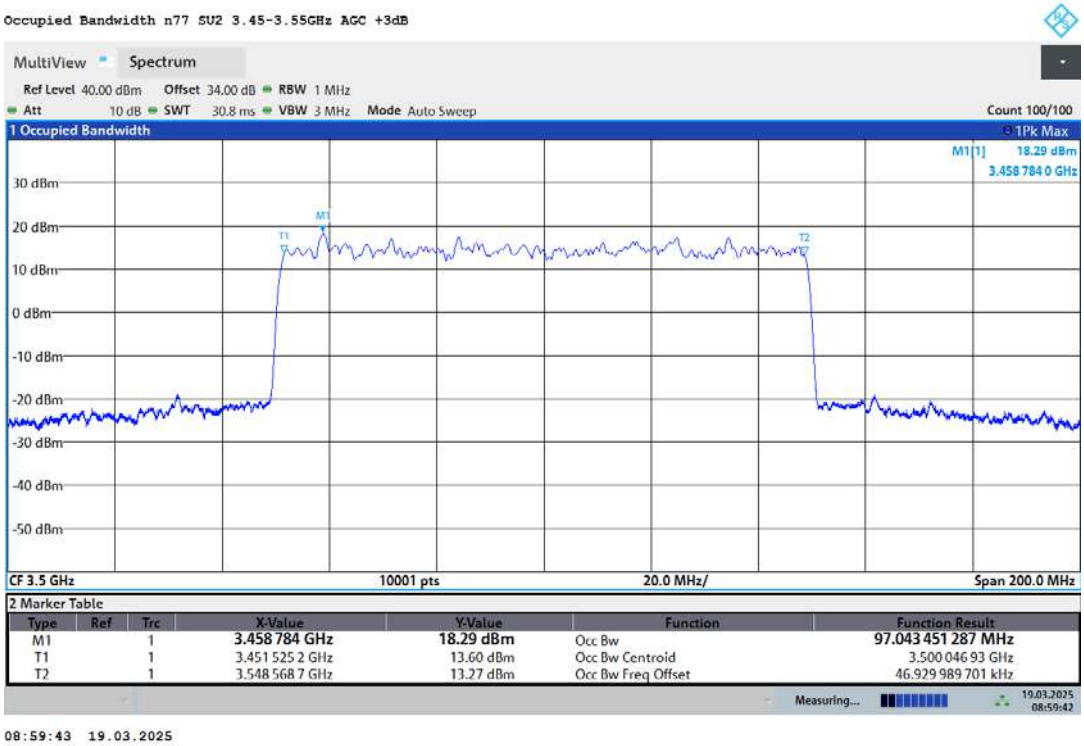
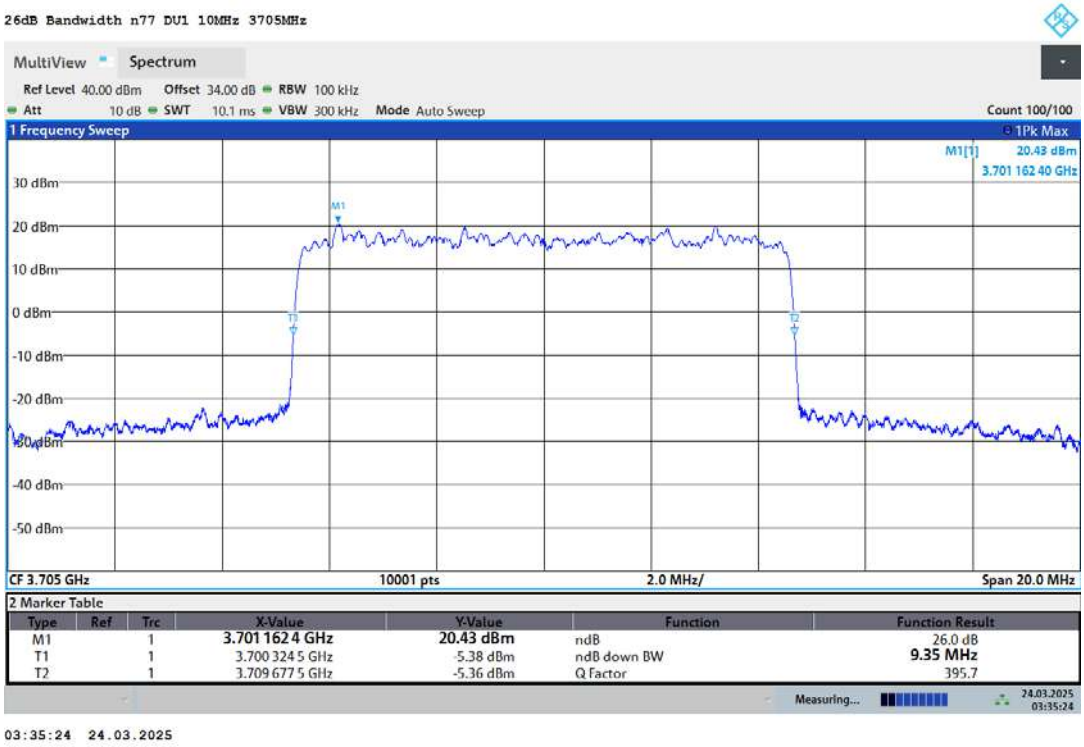
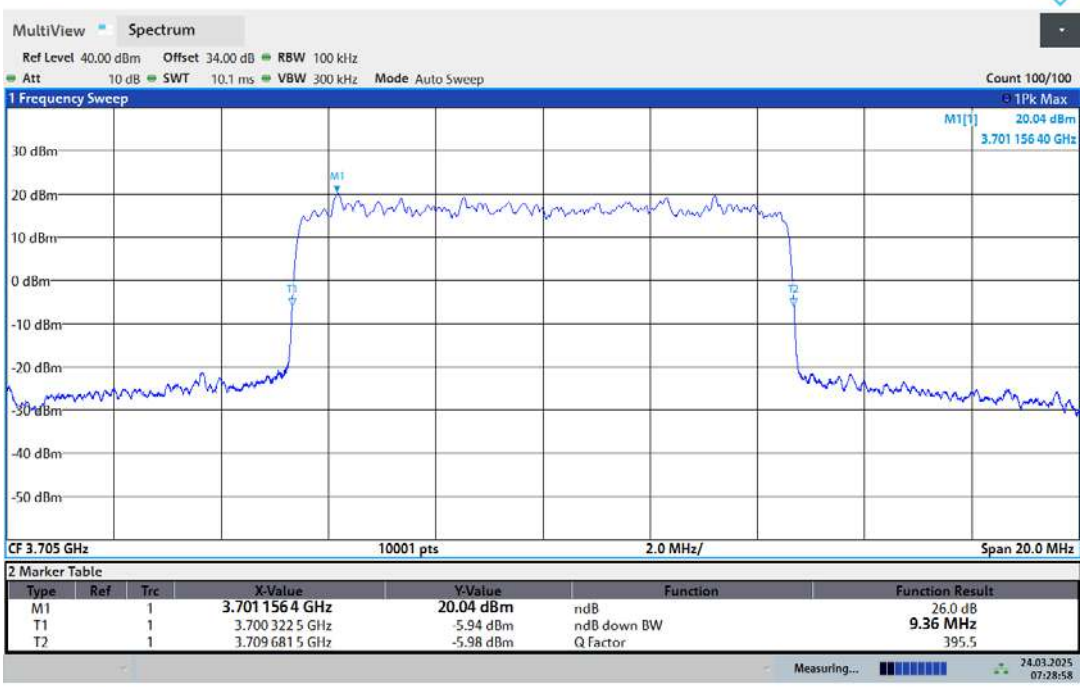


3700-3980MHz
DU
10M



26dB Bandwidth n77 DU1 10MHz 3705MHz AGC+3dB



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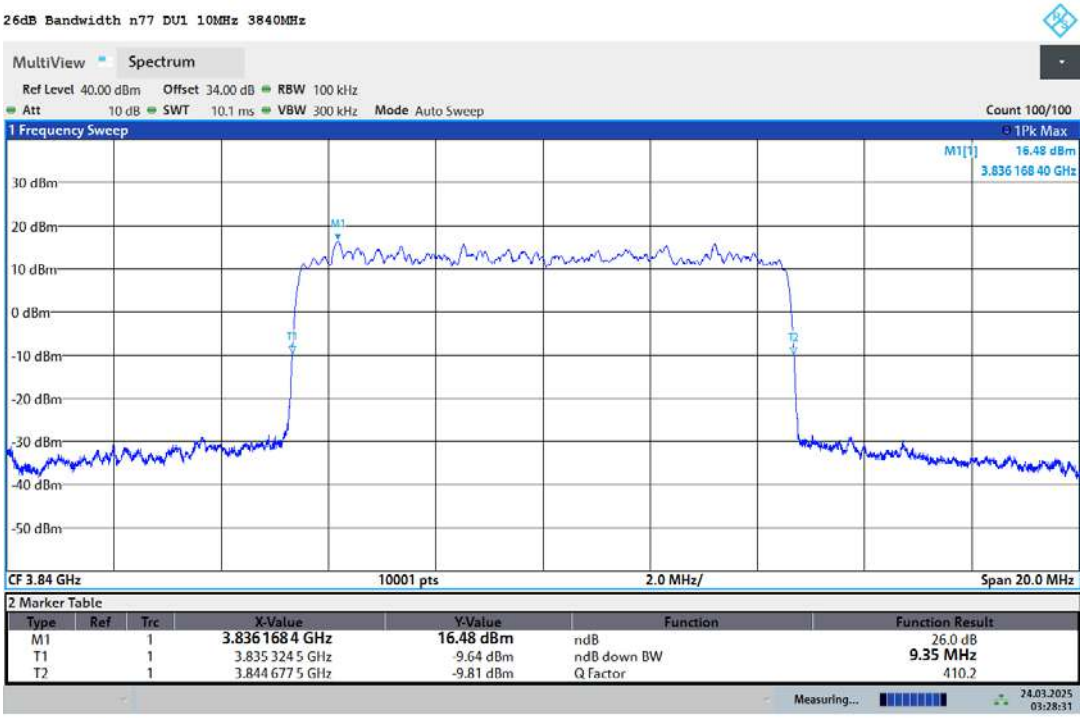
26dB Bandwidth n77 DU1 10MHz 3840MHz



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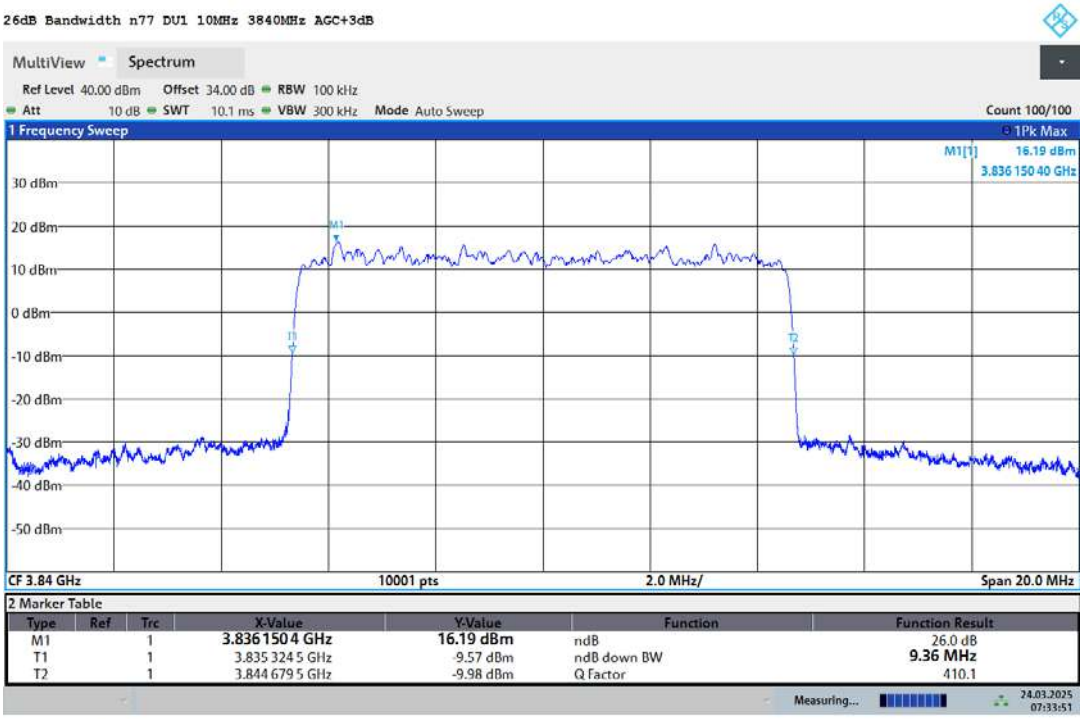
26dB Bandwidth n77 DU1 10MHz 3840MHz AGC+3dB



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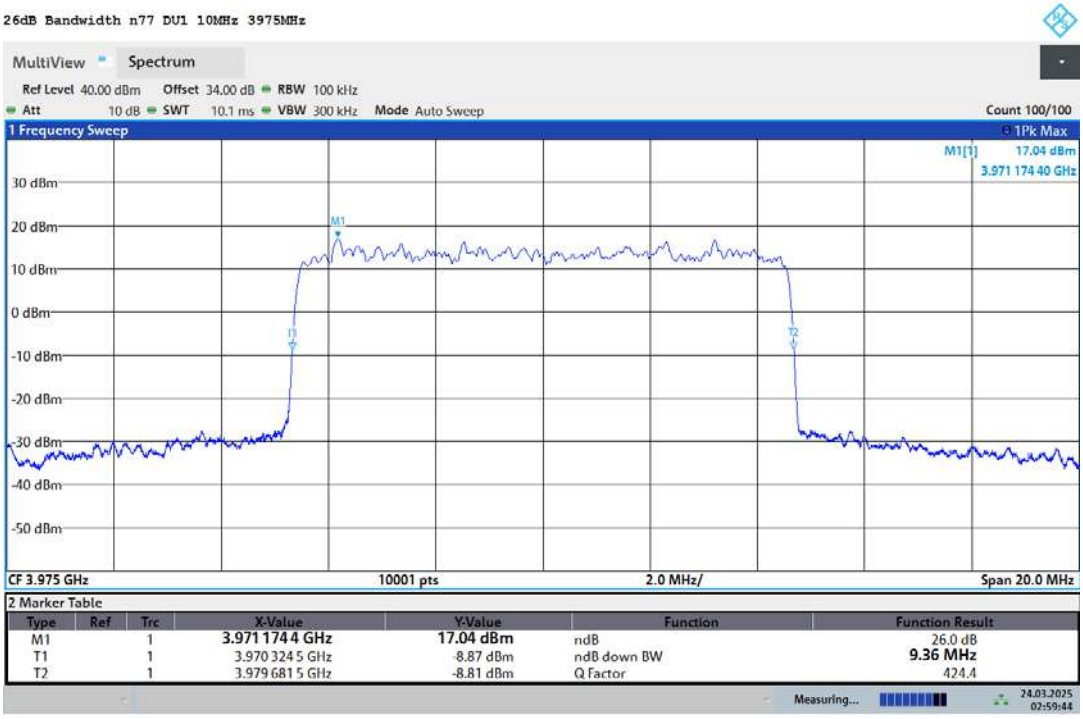
26dB Bandwidth n77 DU1 10MHz 3975MHz



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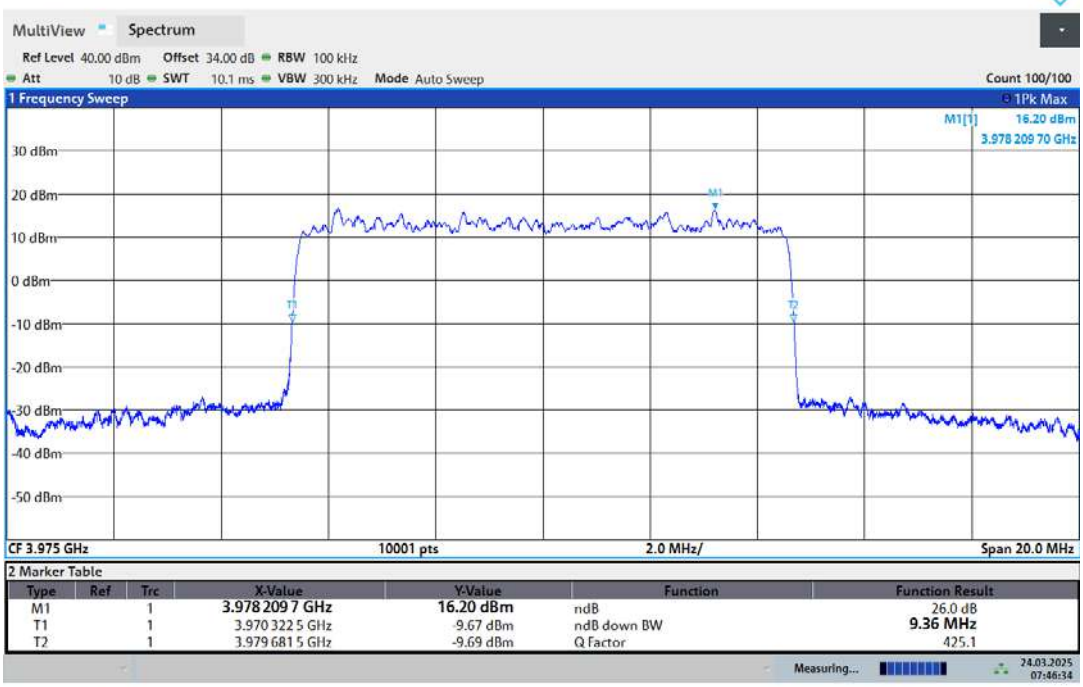
26dB Bandwidth n77 DU1 10MHz 3975MHz AGC+3dB



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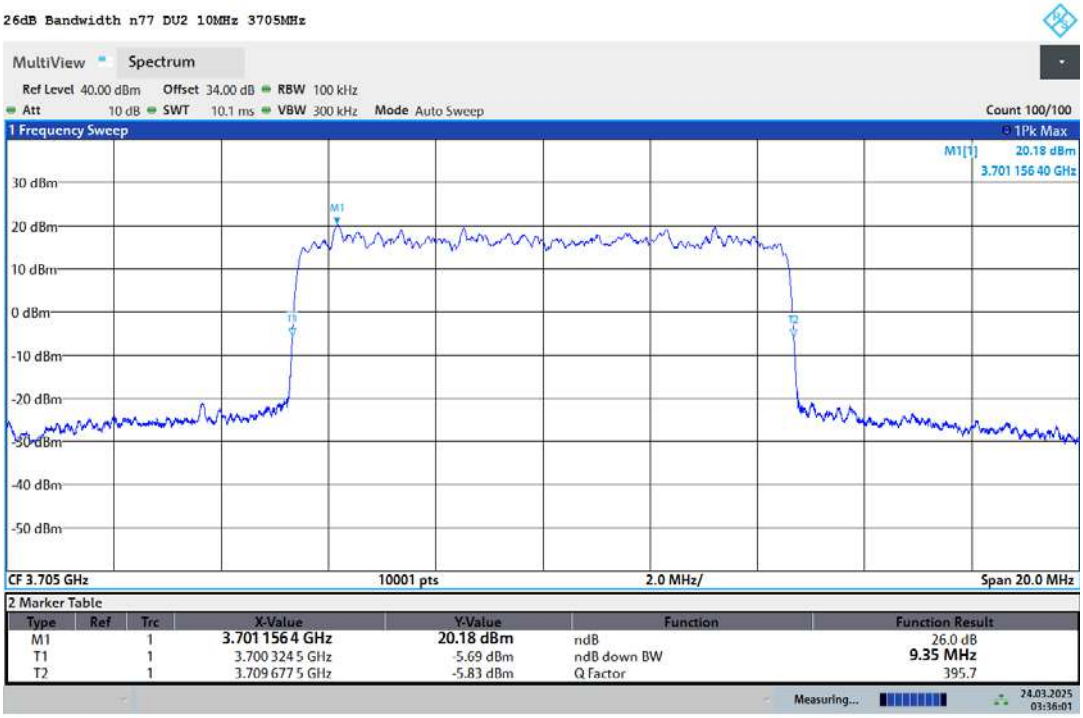

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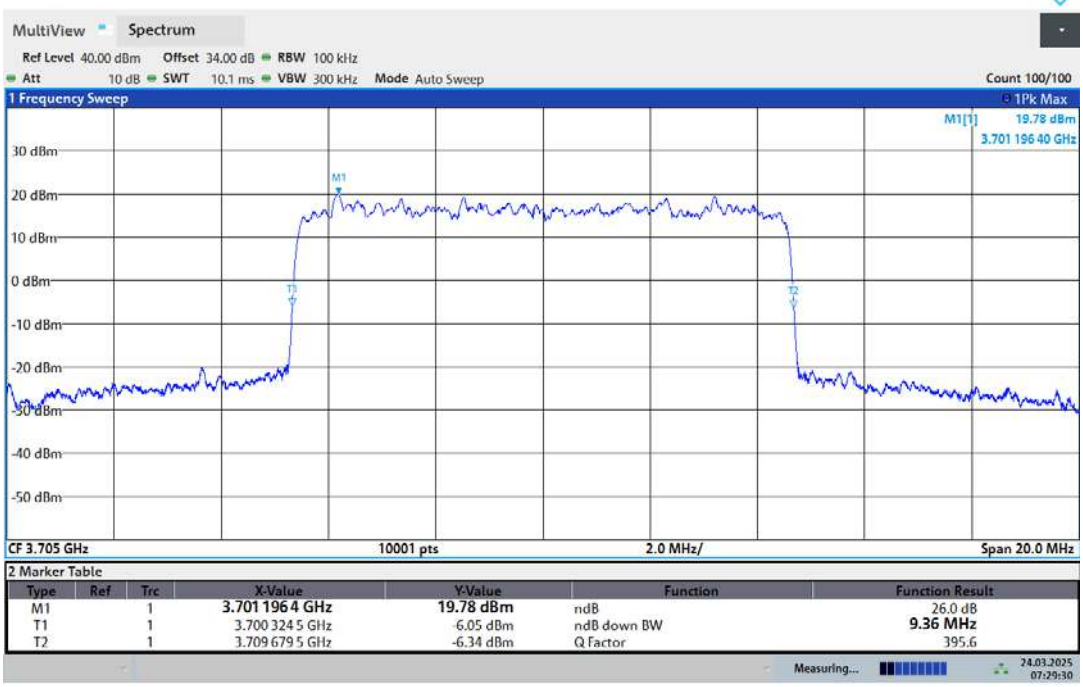

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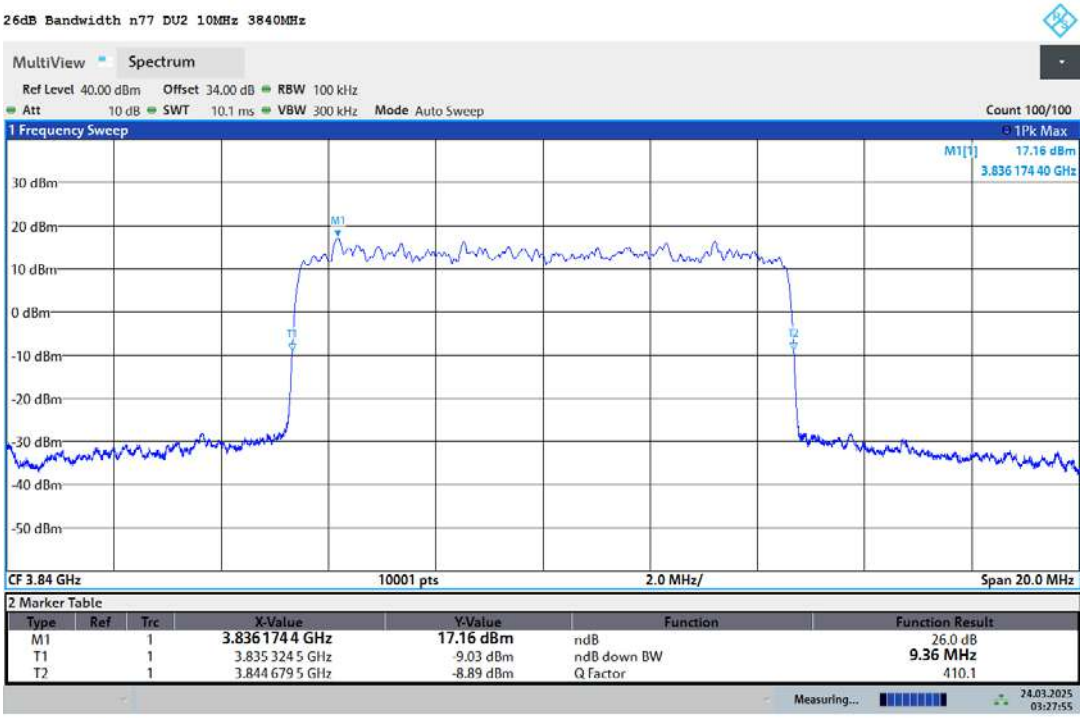
26dB Bandwidth n77 DU2 10MHz 3840MHz



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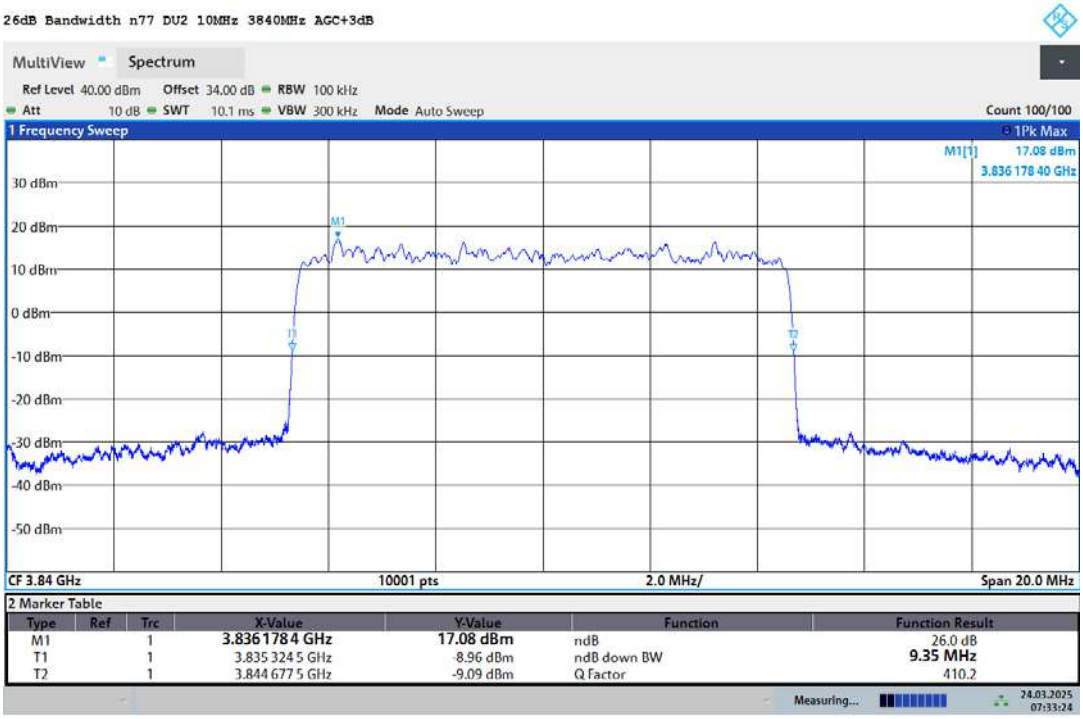
26dB Bandwidth n77 DU2 10MHz 3840MHz AGC+3dB



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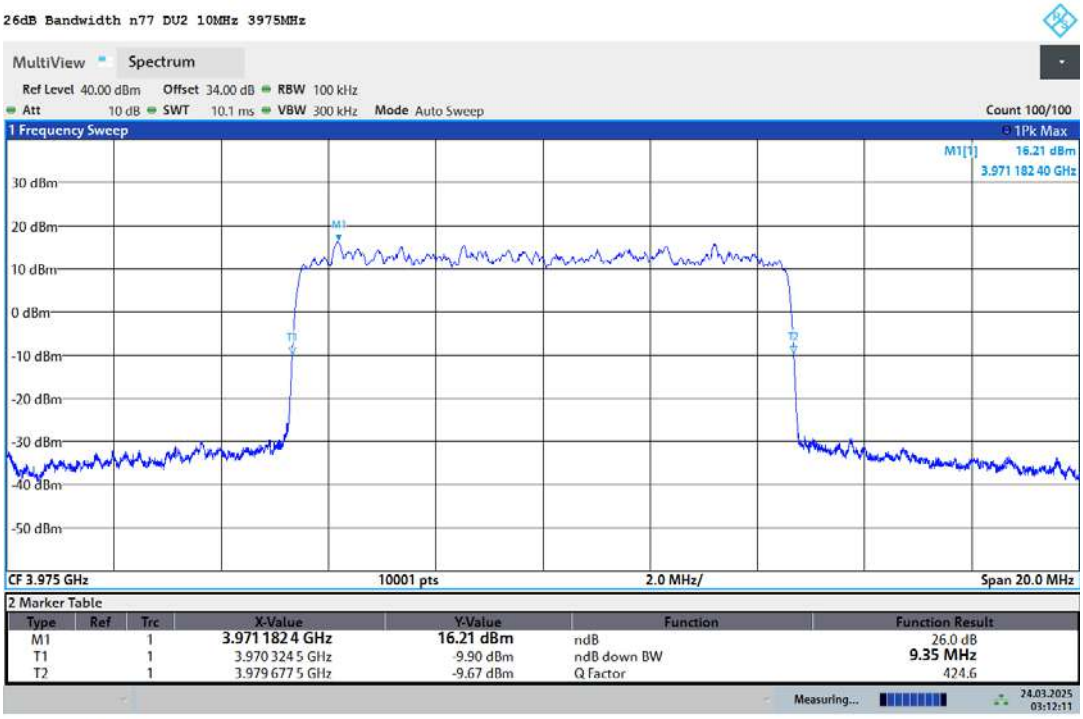
26dB Bandwidth n77 DU2 10MHz 3975MHz



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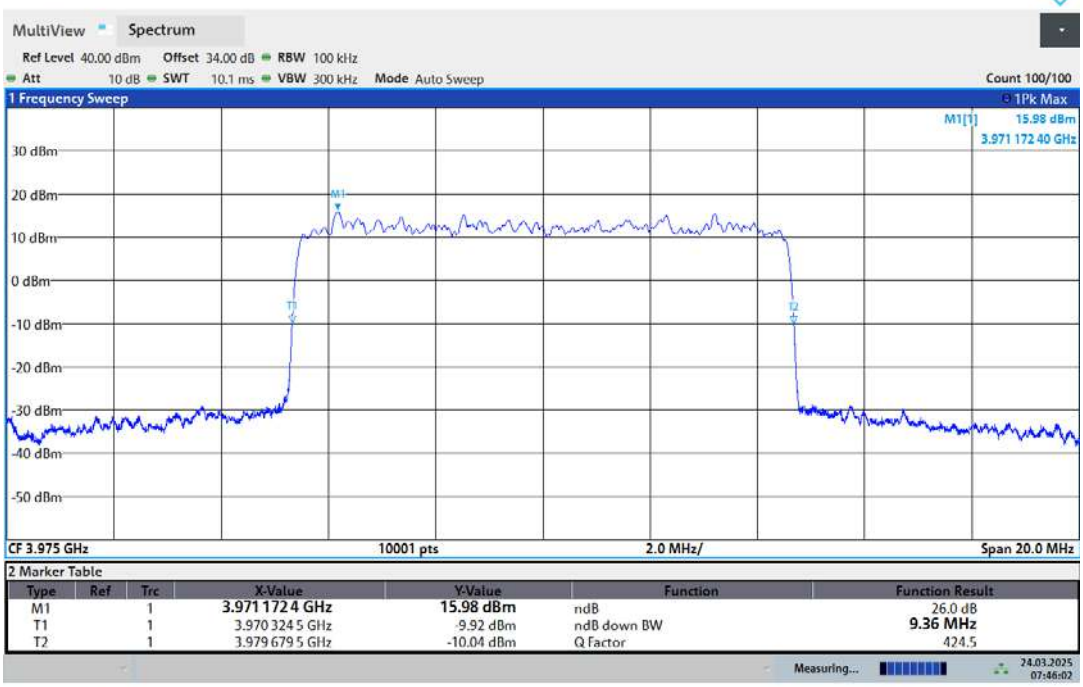
26dB Bandwidth n77 DU2 10MHz 3975MHz AGC+3dB



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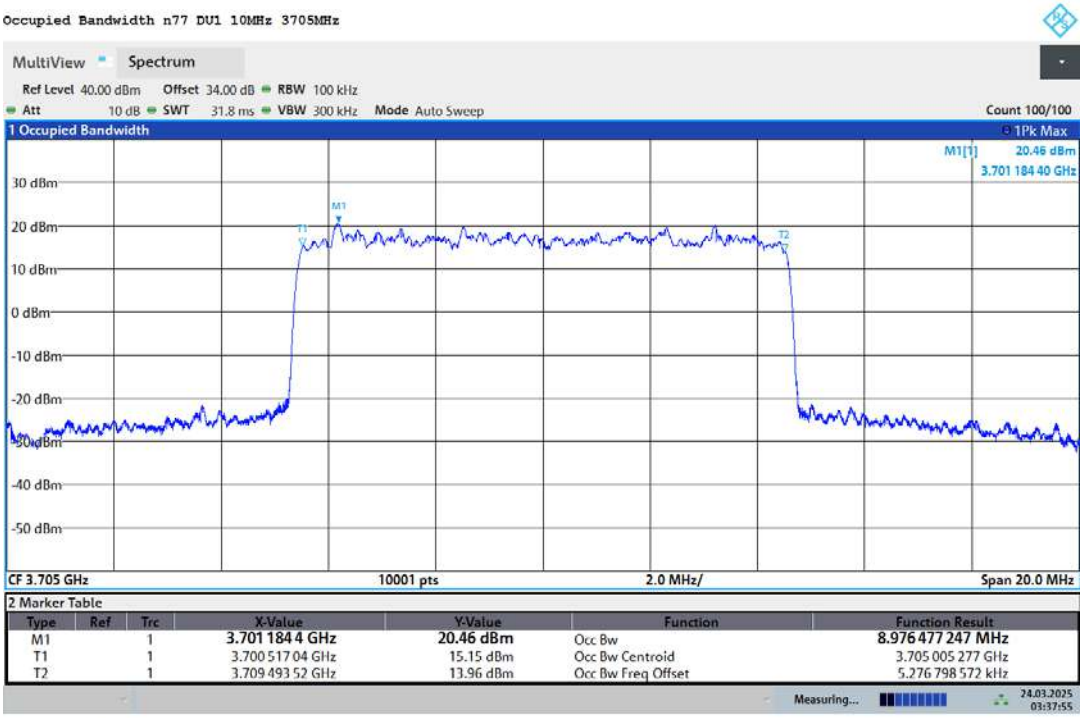
Occupied Bandwidth n77 DU1 10MHz 3705MHz



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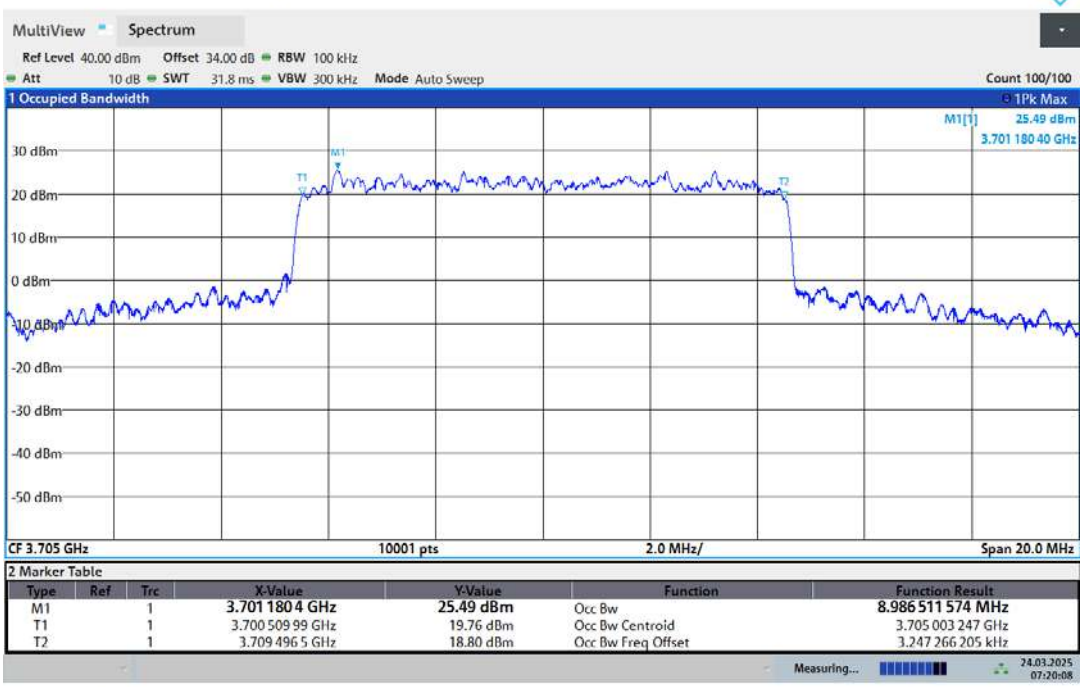
Occipied Bandwidth n77 DU1 10MHz 3705MHz AGC+3dB



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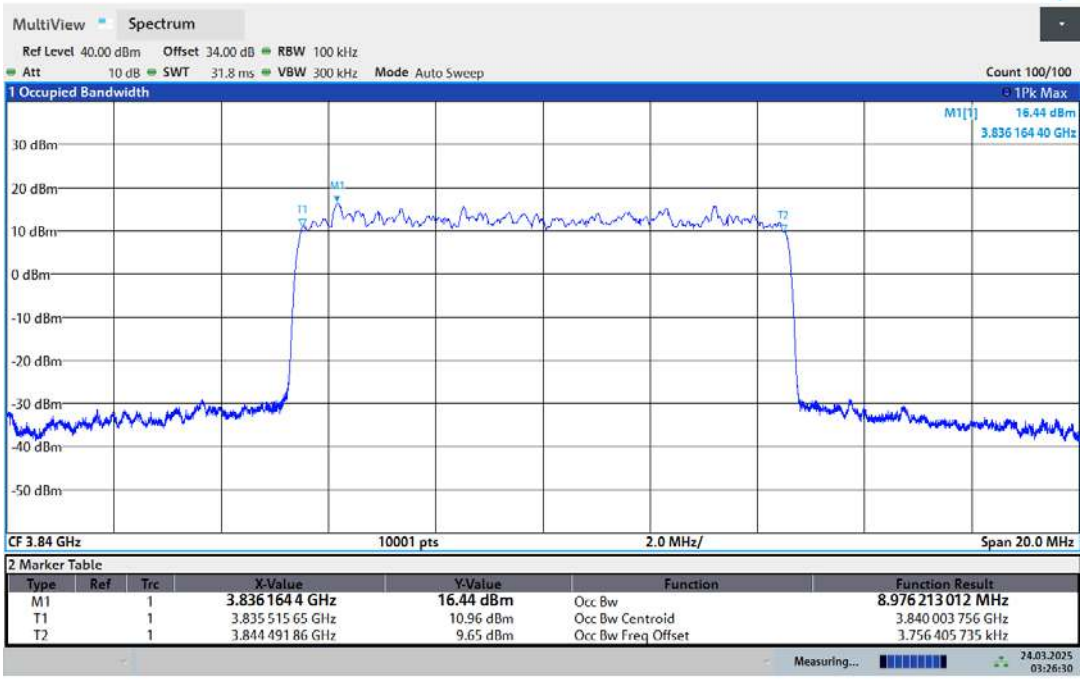
Occupied Bandwidth n77 DU1 10MHz 3840MHz



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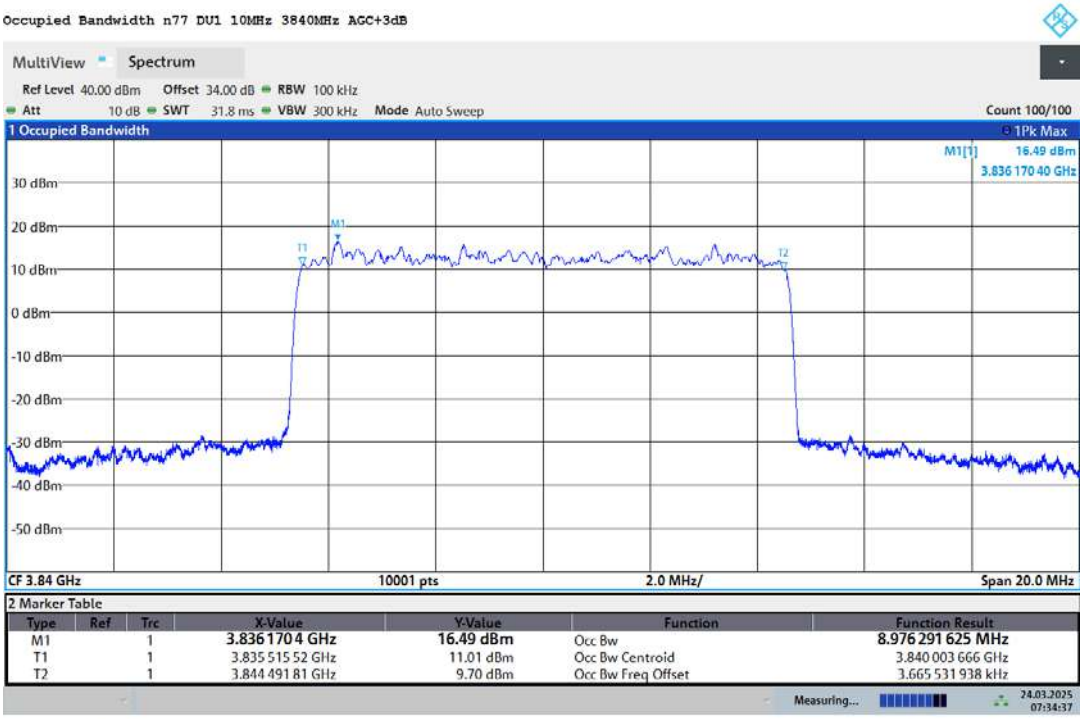
Occupied Bandwidth n77 DU1 10MHz 3840MHz AGC+3dB



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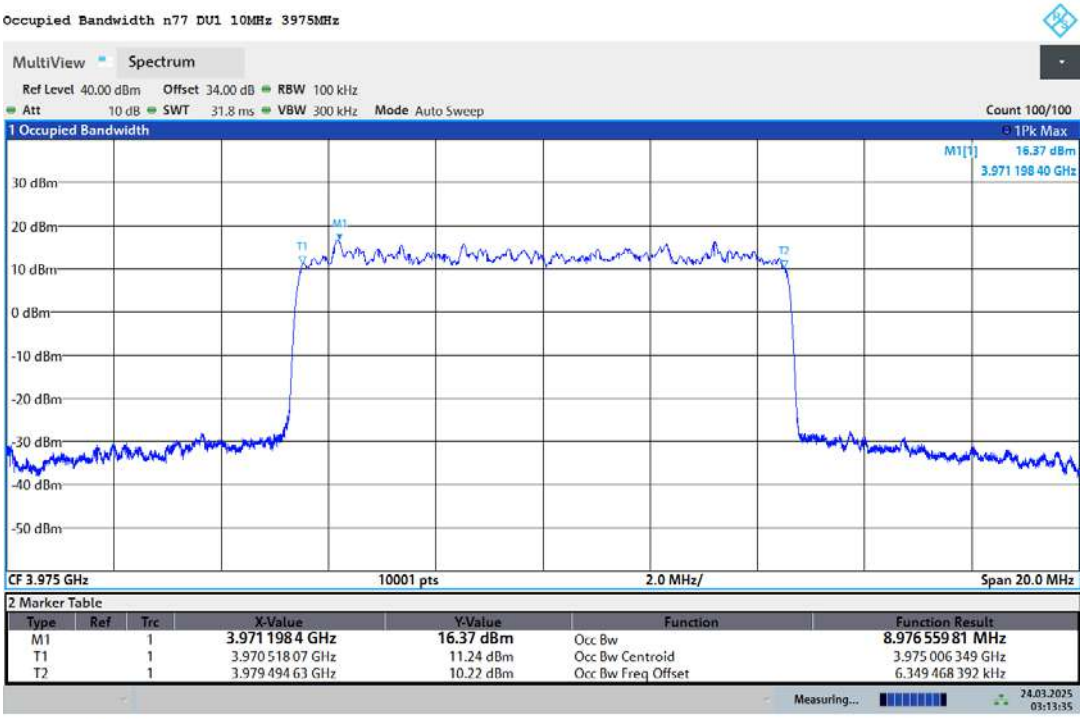
Occupied Bandwidth n77 DU1 10MHz 3975MHz



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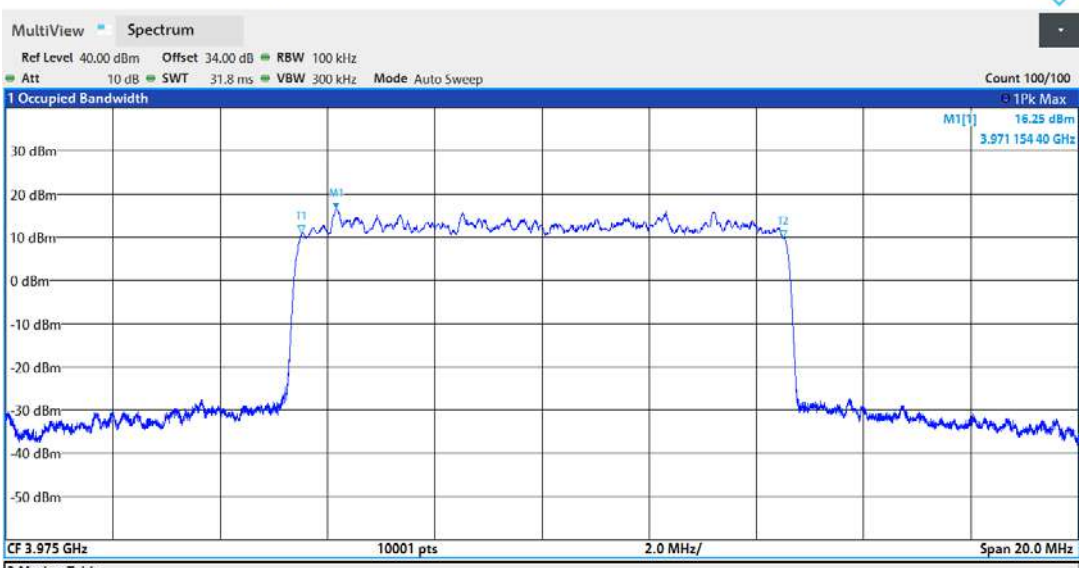
Occupied Bandwidth n77 DU1 10MHz 3975MHz AGC+3dB



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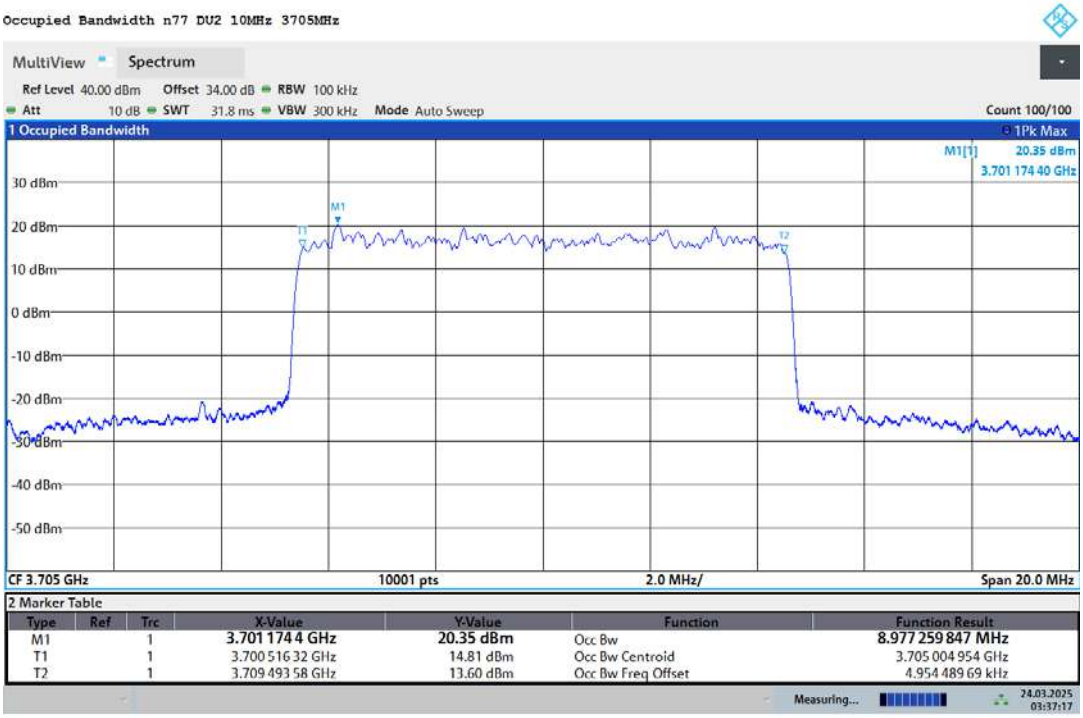
Occupied Bandwidth n77 DU2 10MHz 3705MHz



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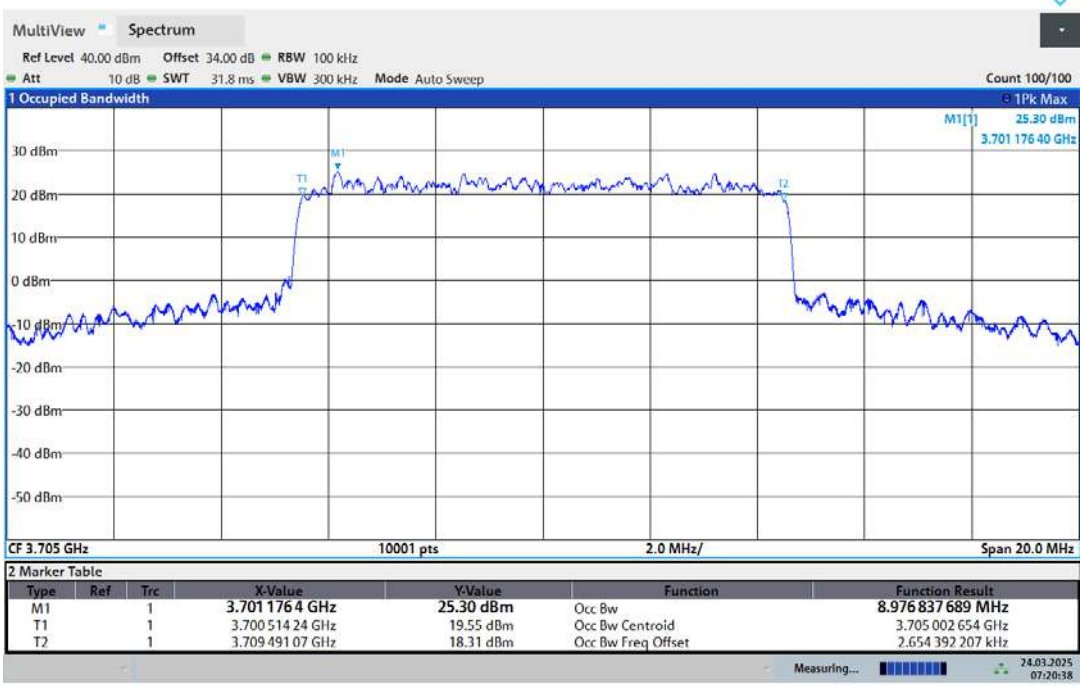
Occipied Bandwidth n77 DU2 10MHz 3705MHz AGC+3dB



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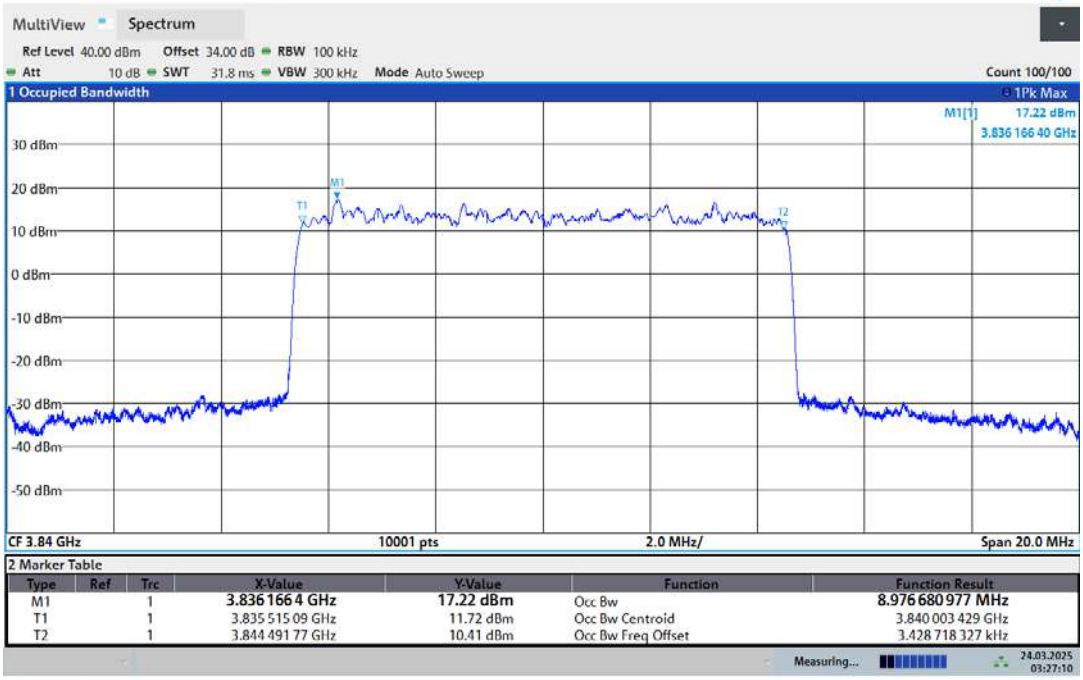
Occupied Bandwidth n77 DU2 10MHz 3840MHz



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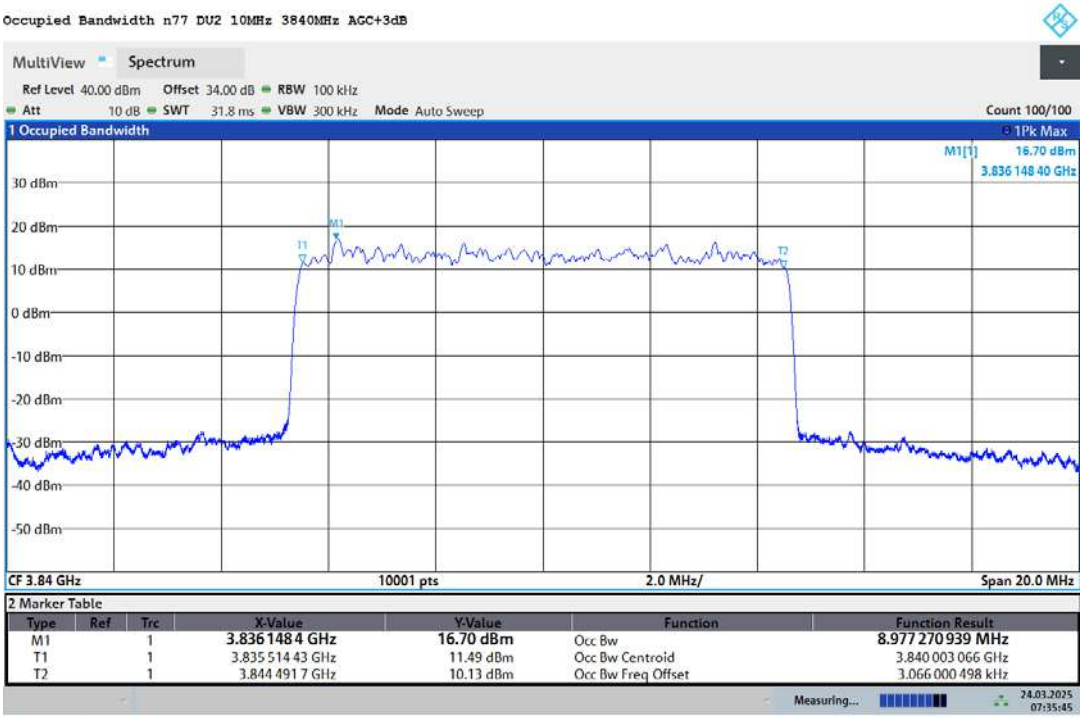
Occupied Bandwidth n77 DU2 10MHz 3840MHz AGC+3dB



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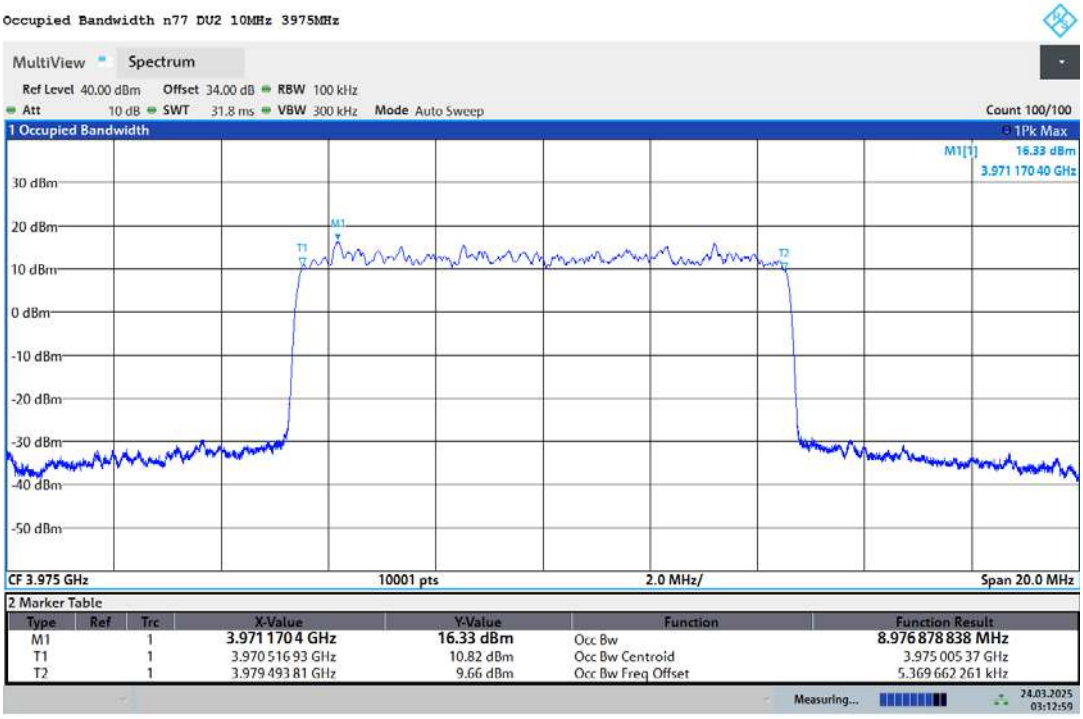

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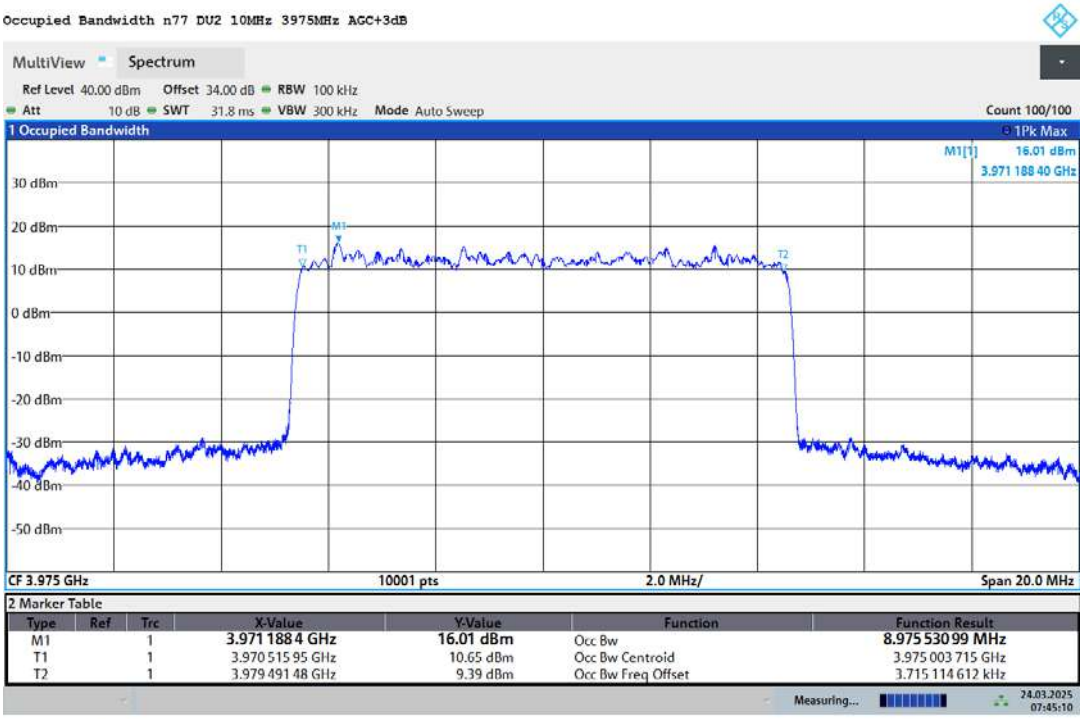
Occupied Bandwidth n77 DU2 10MHz 3975MHz AGC+3dB



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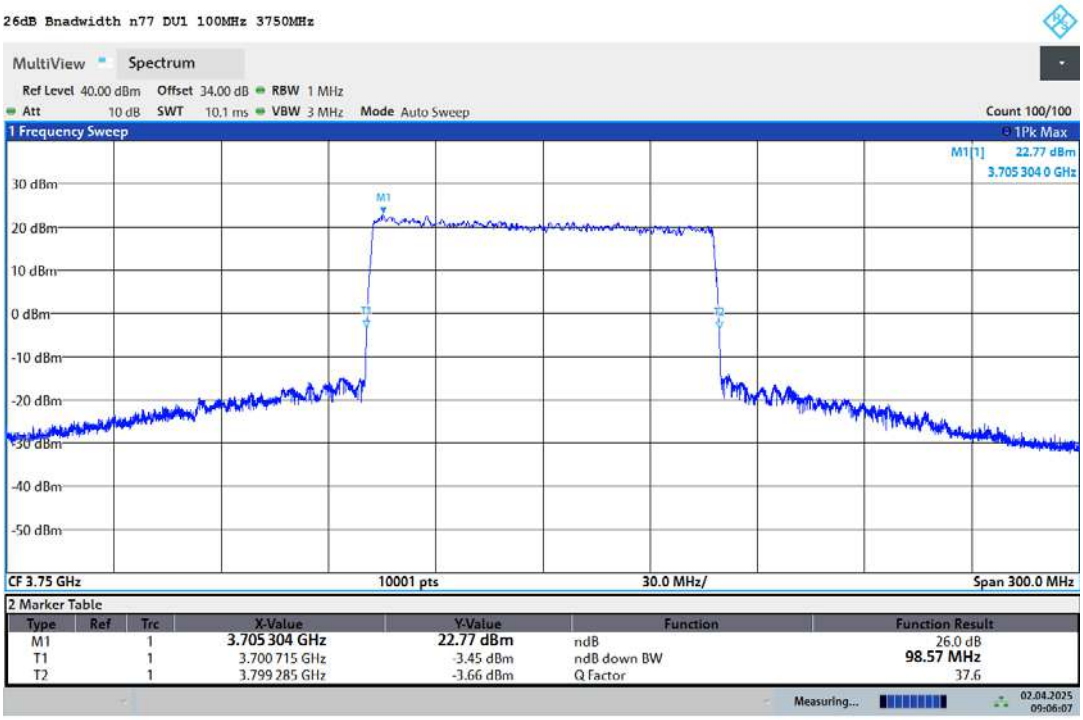
100M

26dB Bnadwidth n77 DU1 100MHz 3750MHz



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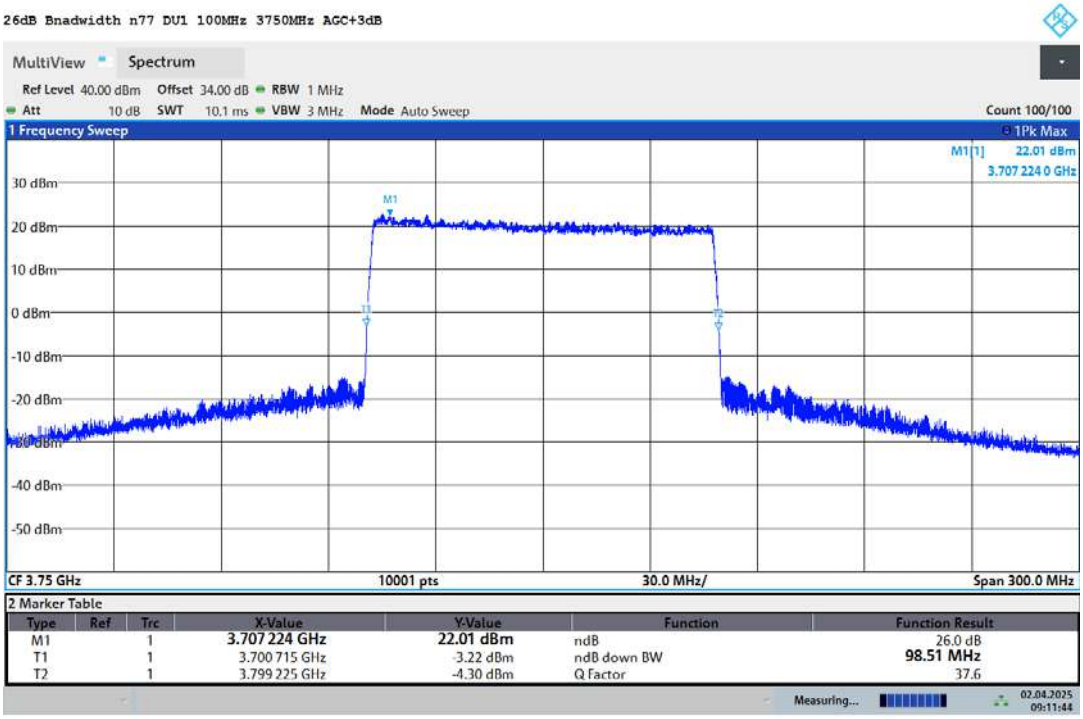
26dB Bnadwidth n77 DU1 100MHz 3750MHz AGC+3dB



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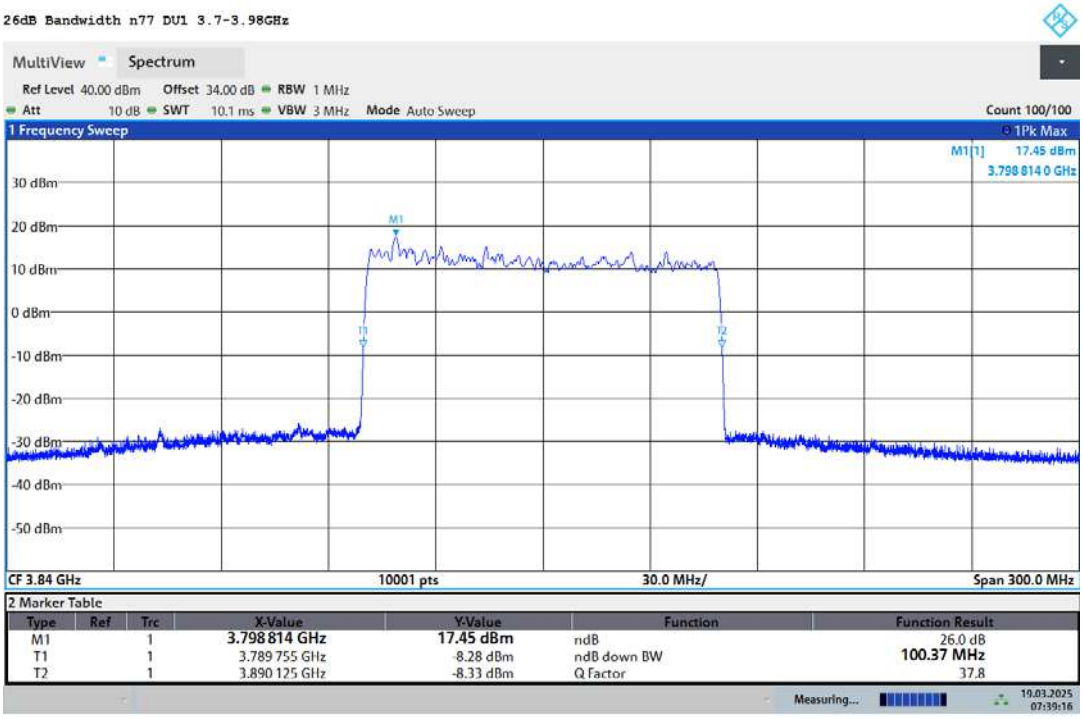
26dB Bandwidth n77 DU1 3.7-3.98GHz



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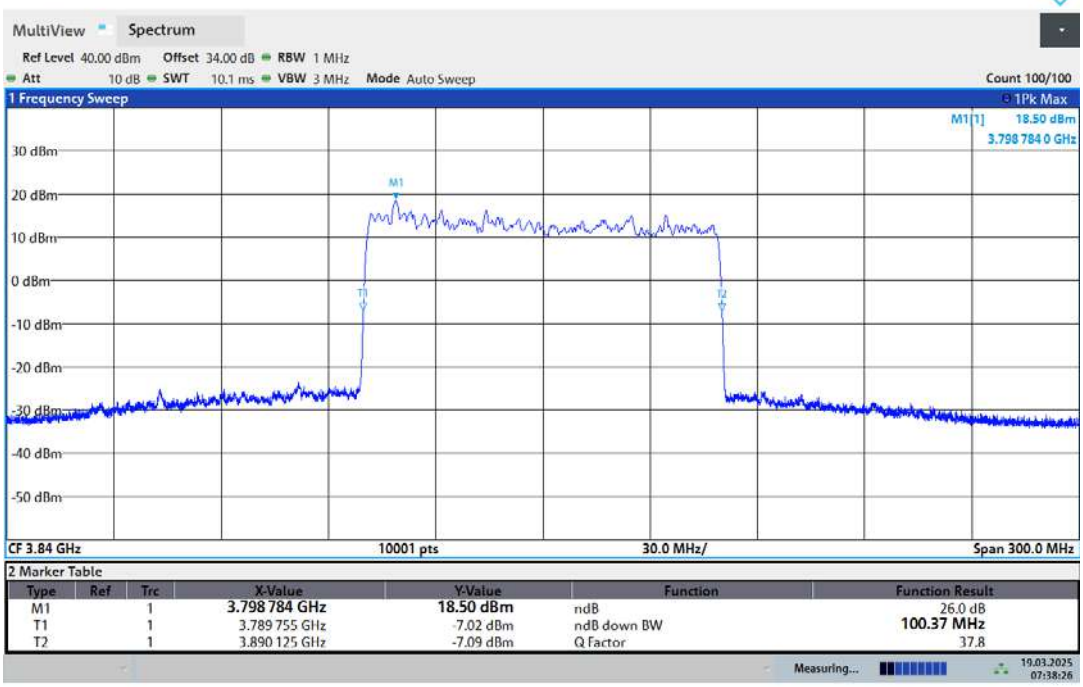
26dB Bandwidth n77 DU1 3.7-3.98GHz AGC+3dB



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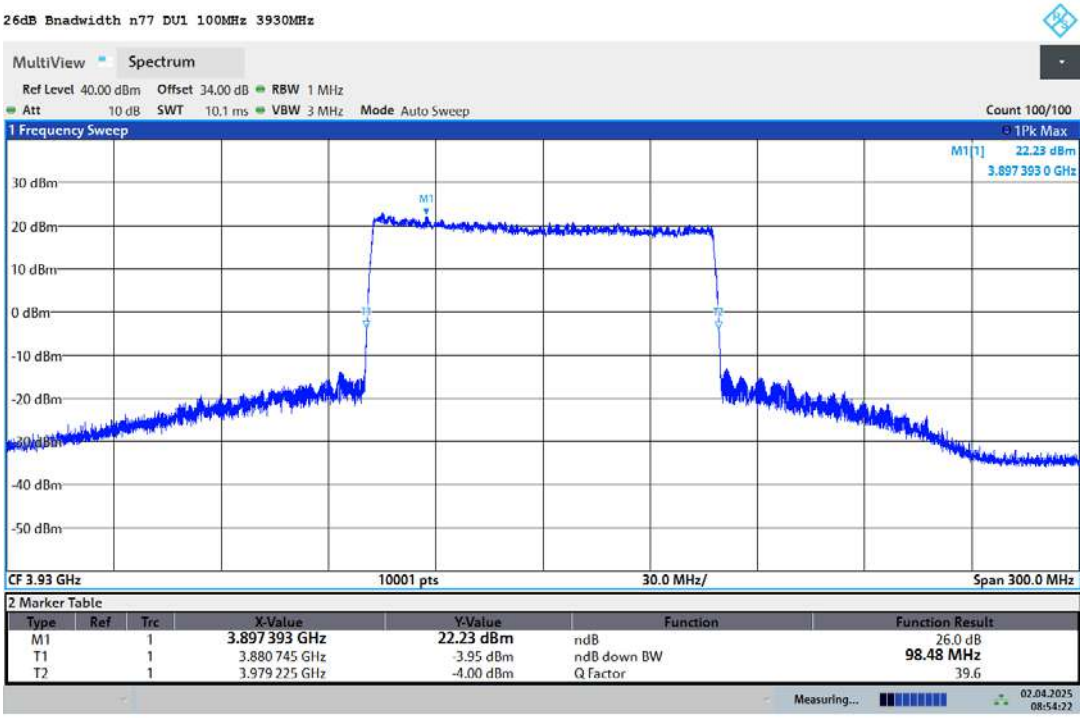
26dB Bnadwidth n77 DU1 100MHz 3930MHz



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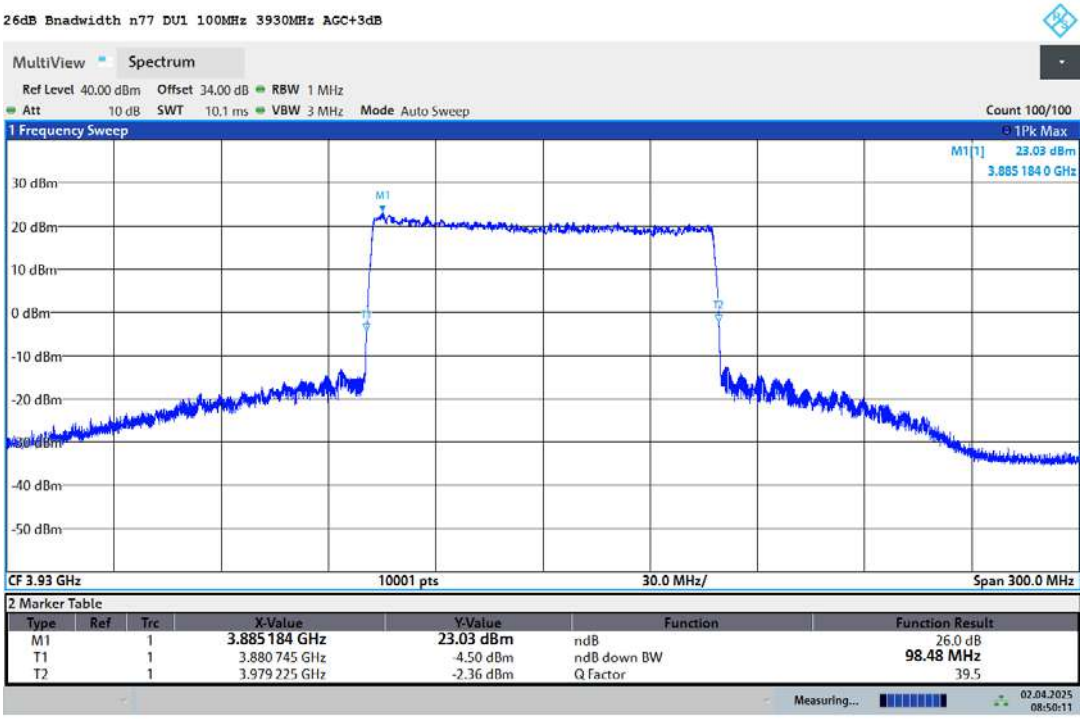
26dB Bnadwidth n77 DU1 100MHz 3930MHz AGC+3dB



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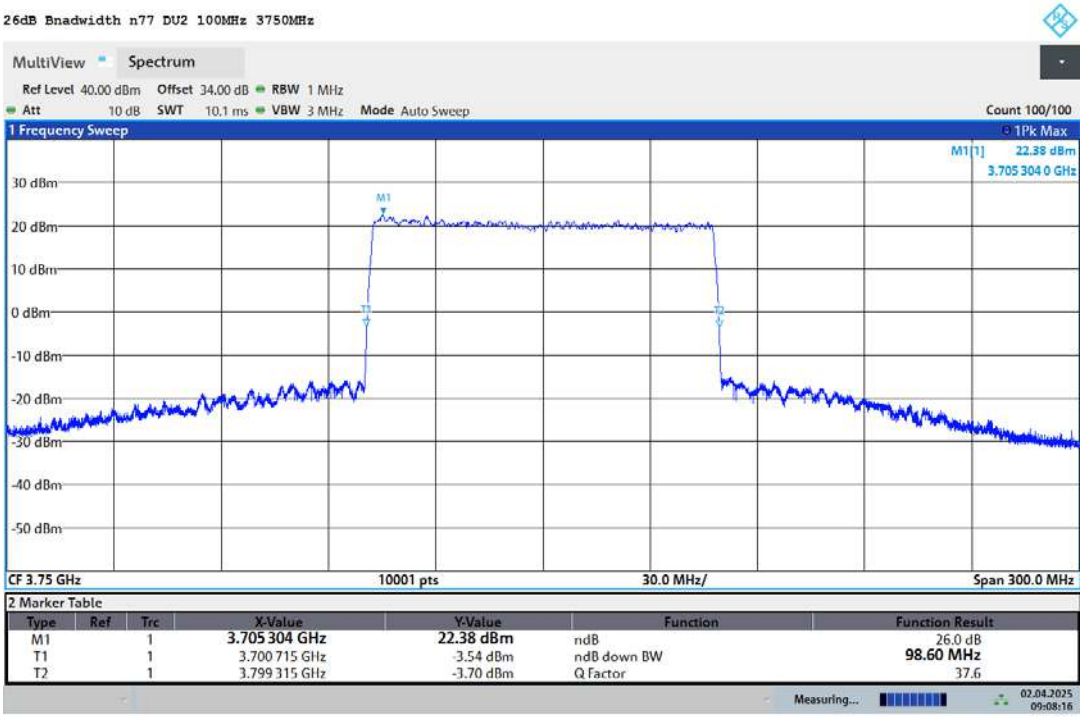
26dB Bnadwidth n77 DU2 100MHz 3750MHz



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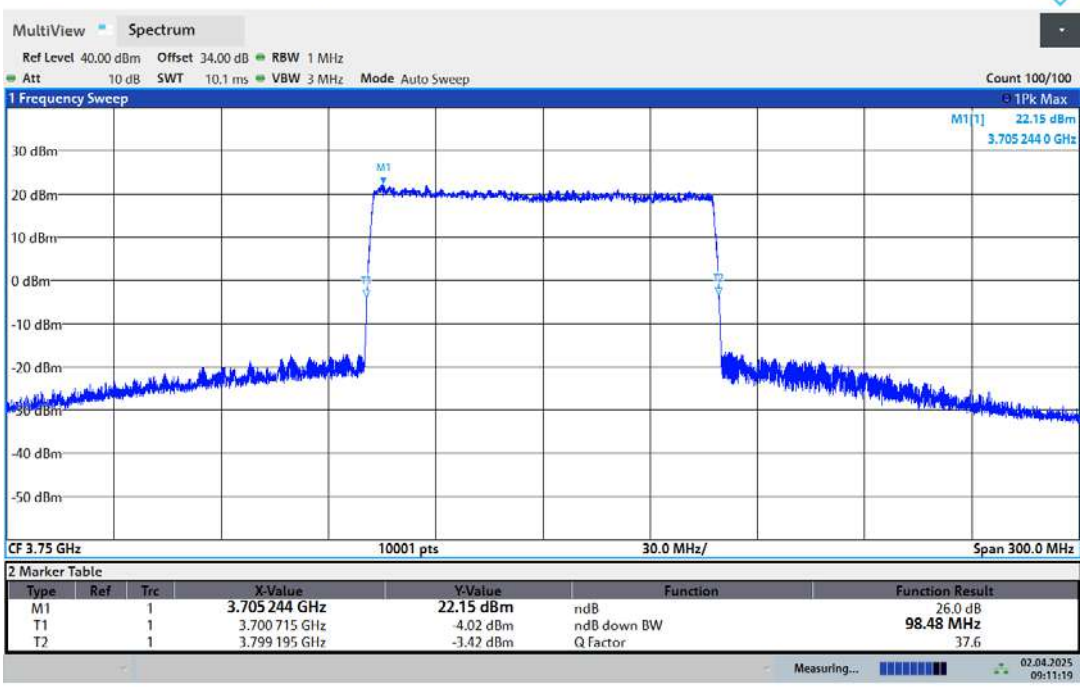
26dB Bnadwidth n77 DU2 100MHz 3750MHz AGC+3dB



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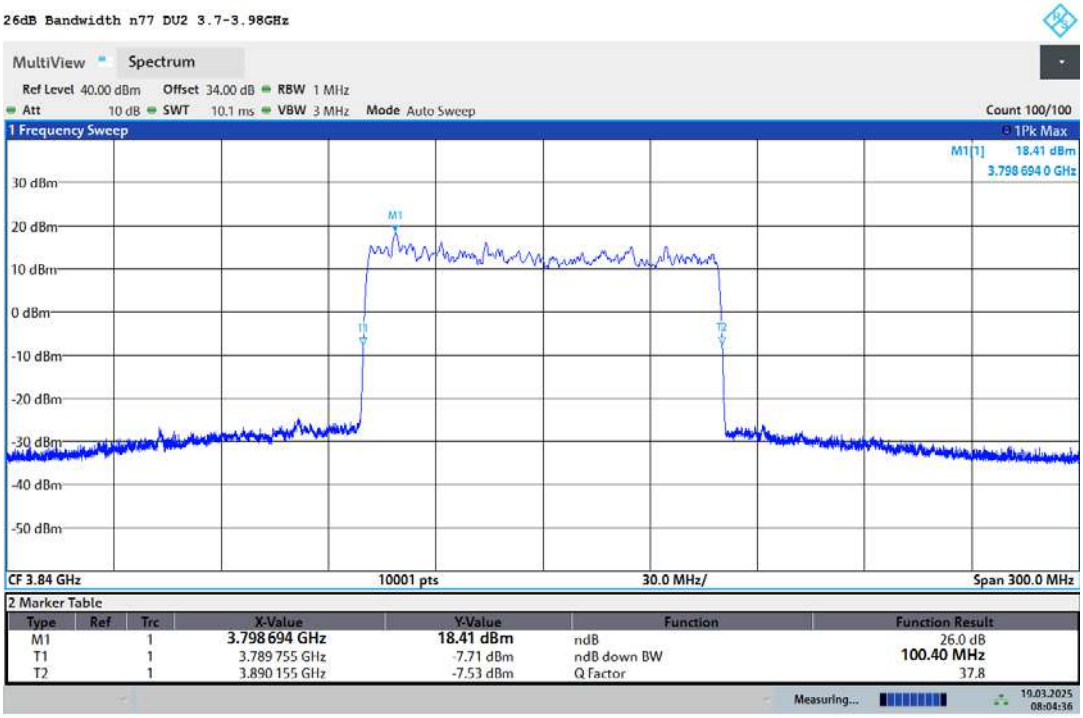
26dB Bandwidth n77 DU2 3.7-3.98GHz



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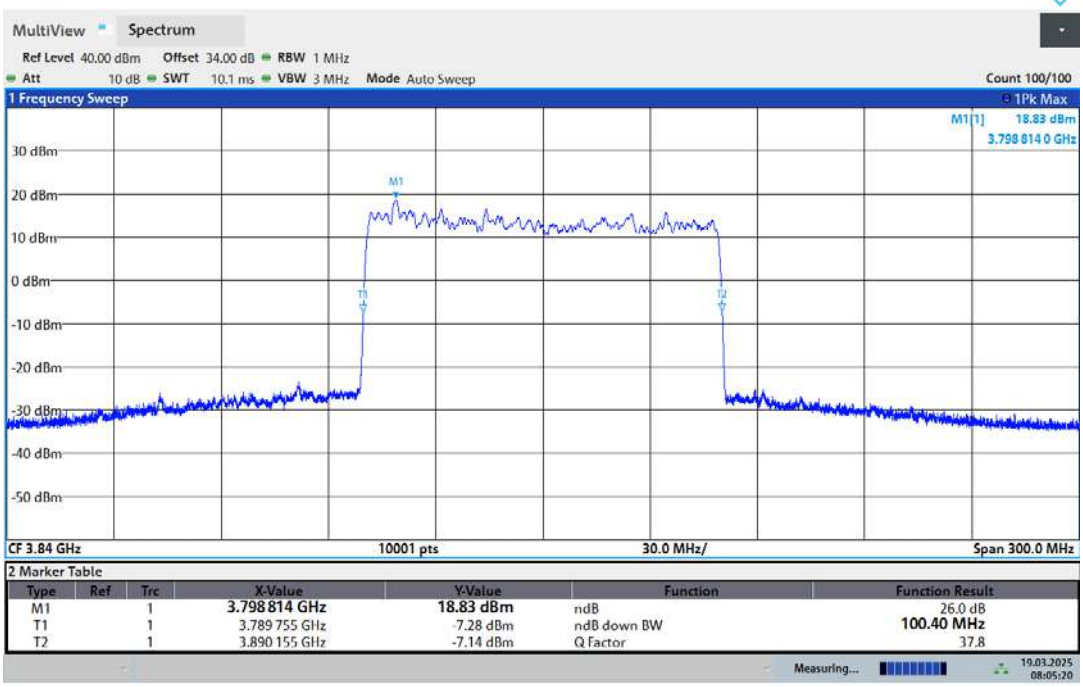
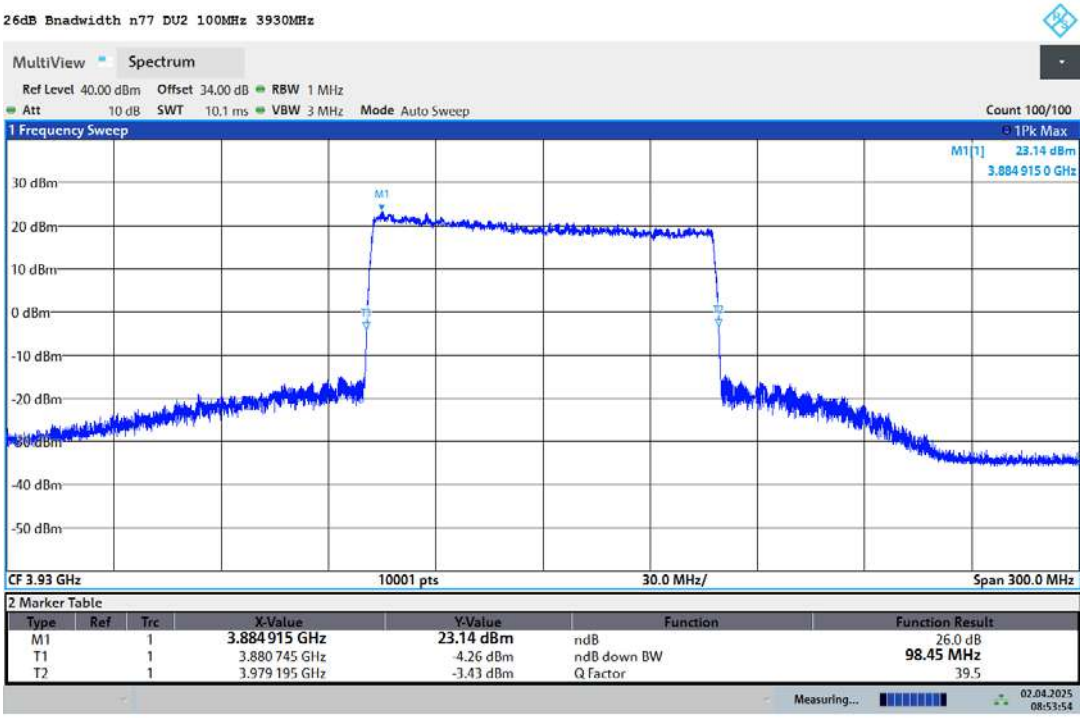
26dB Bandwidth n77 DU2 3.7-3.98GHz AGC +3dB



08:05:20 19.03.2025

26dB Bnadwidth n77 DU2 100MHz 3930MHz



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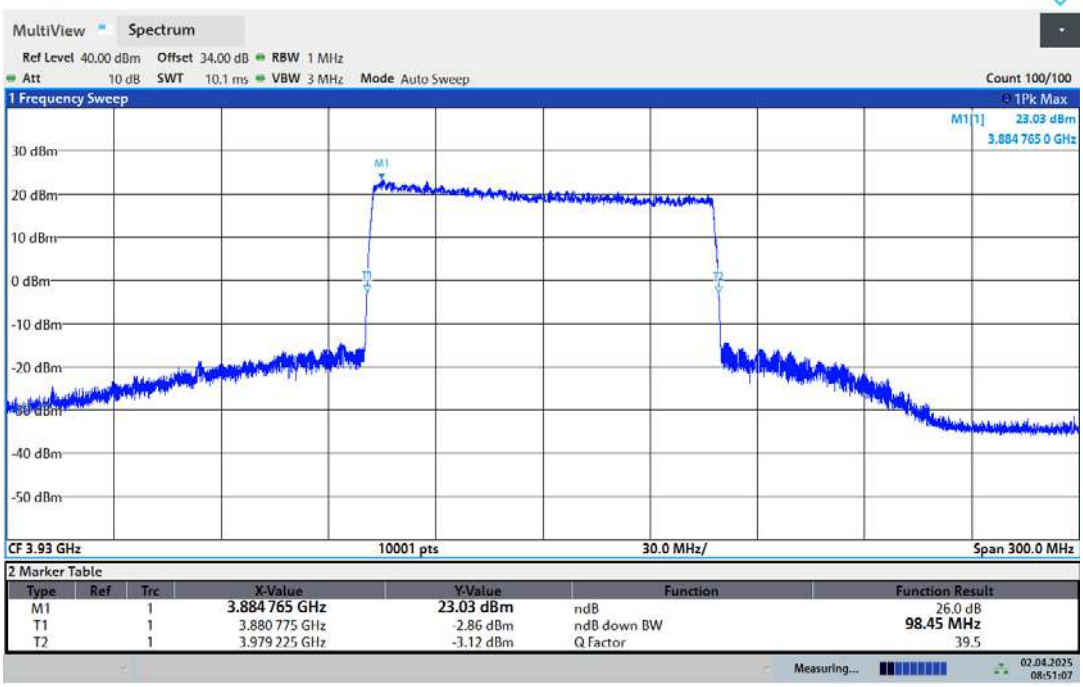
26dB Bnadwidth n77 DU2 100MHz 3930MHz AGC+3dB



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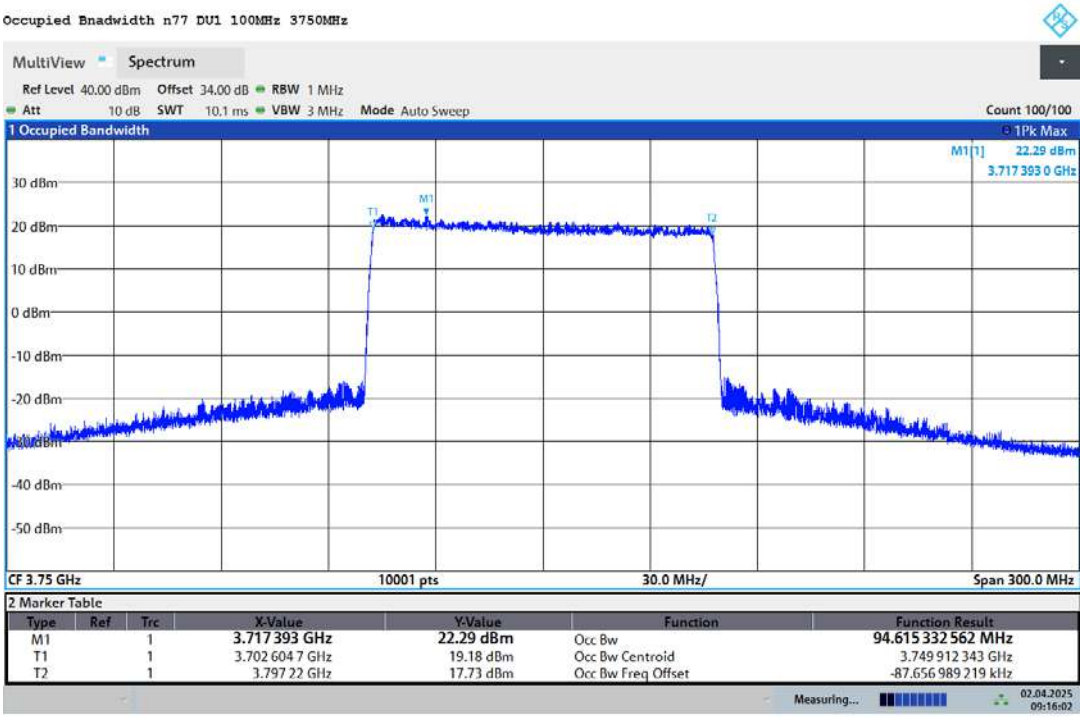
Occupied Bnadwidth n77 DU1 100MHz 3750MHz



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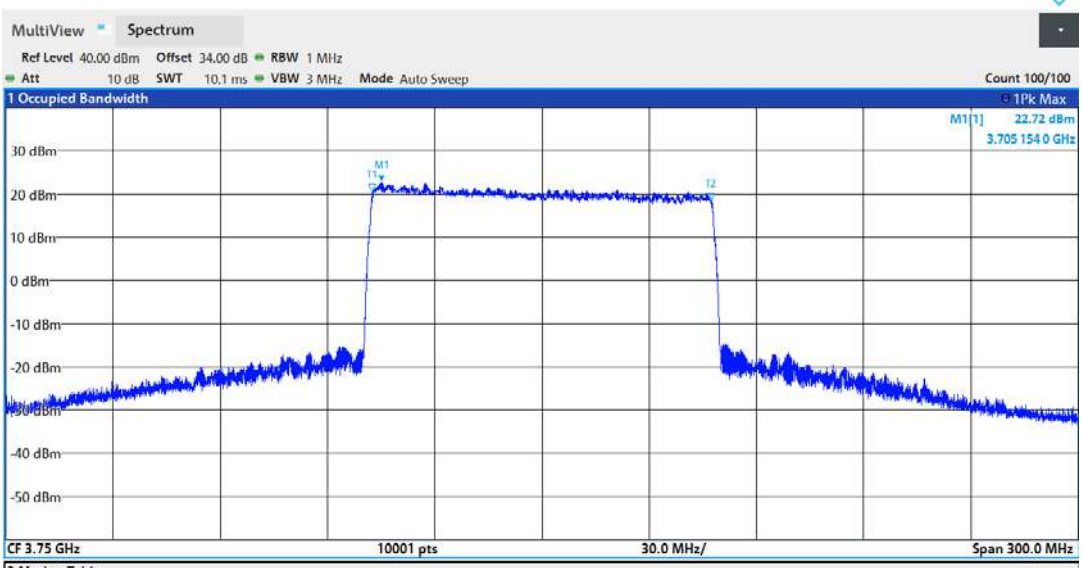
Occupied Bnadwidth n77 DU1 100MHz 3750MHz AGC+3dB



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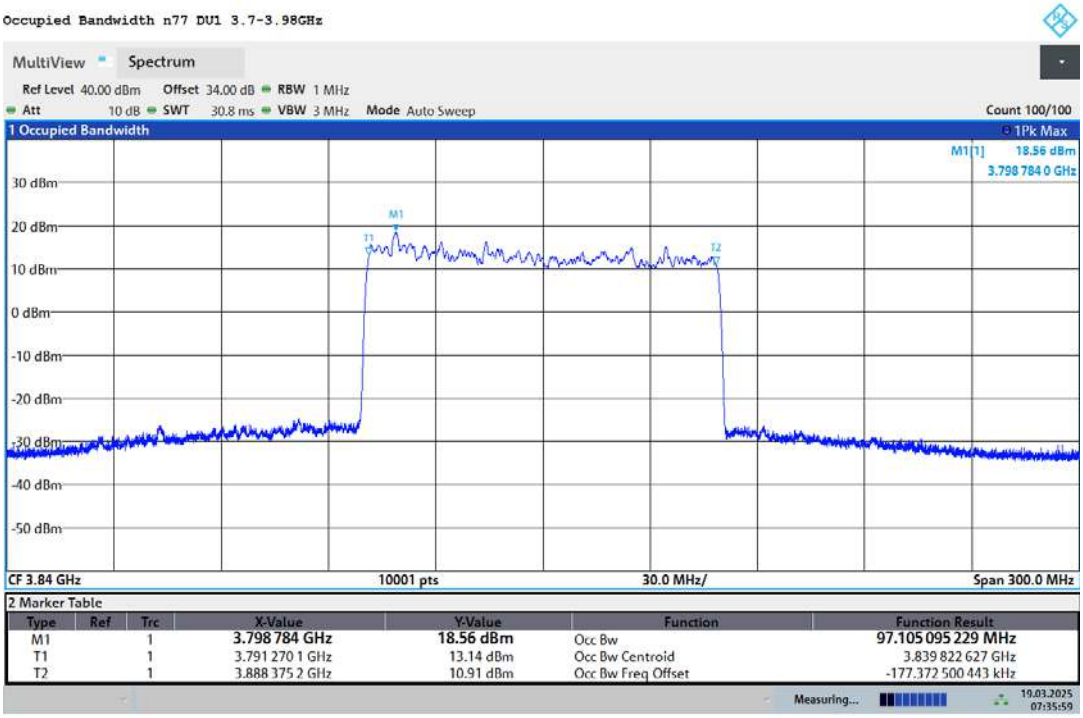
Occupied Bandwidth n77 DU1 3.7-3.98GHz



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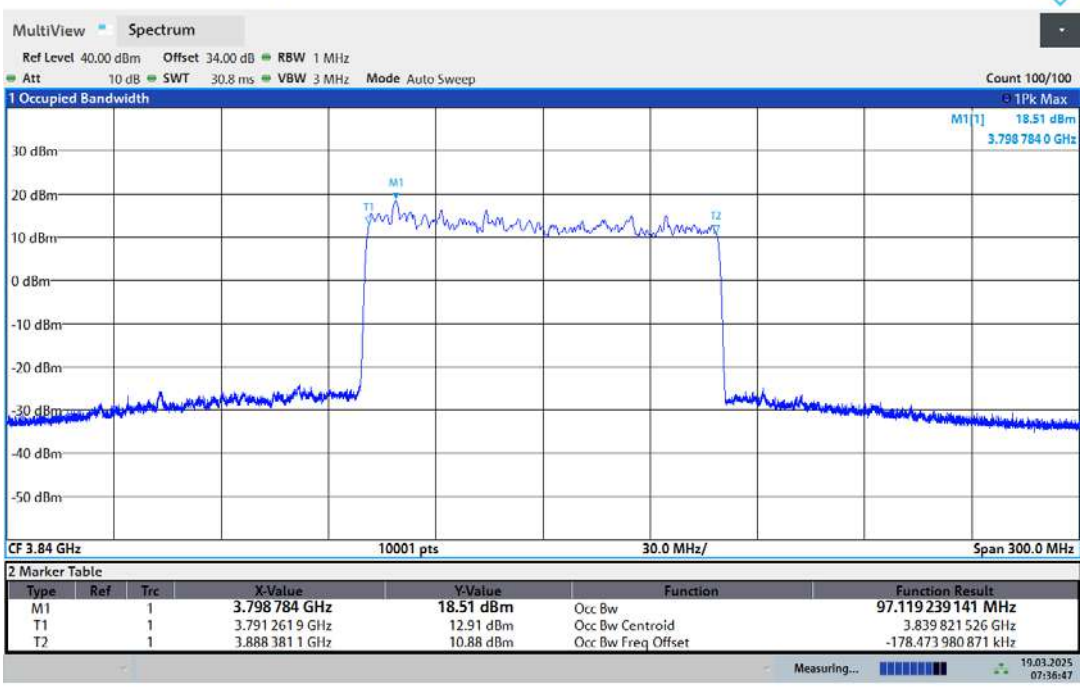
Occupied Bandwidth n77 DU1 3.7-3.98GHz AGC+3dB



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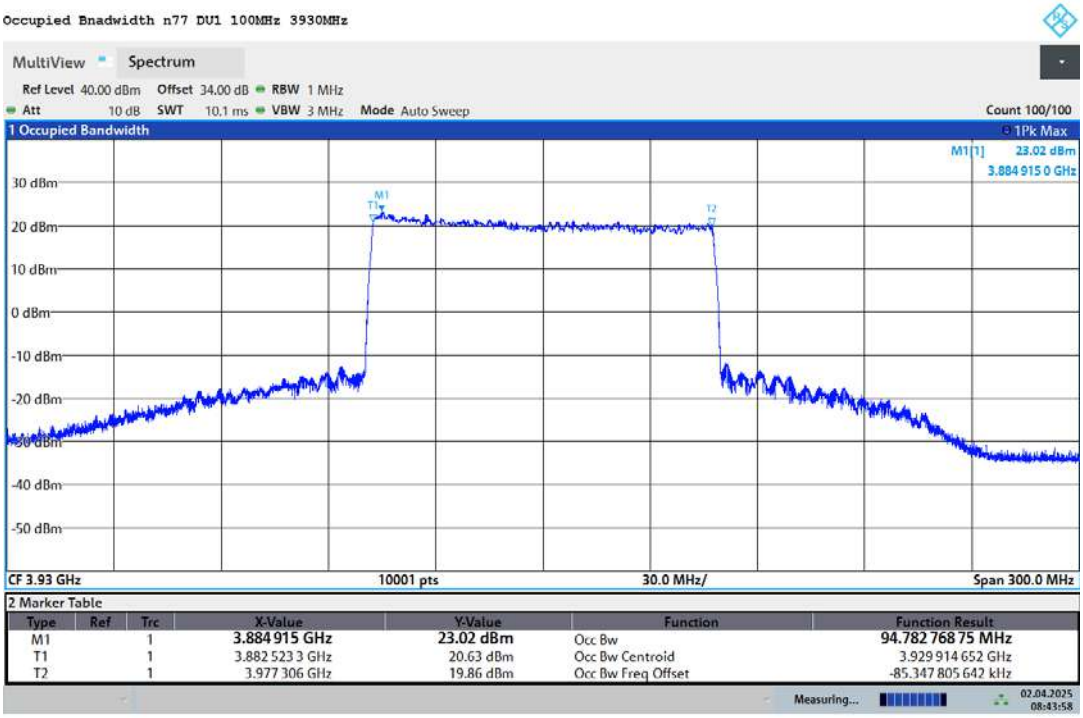
Occupied Bnadwidth n77 DU1 100MHz 3930MHz



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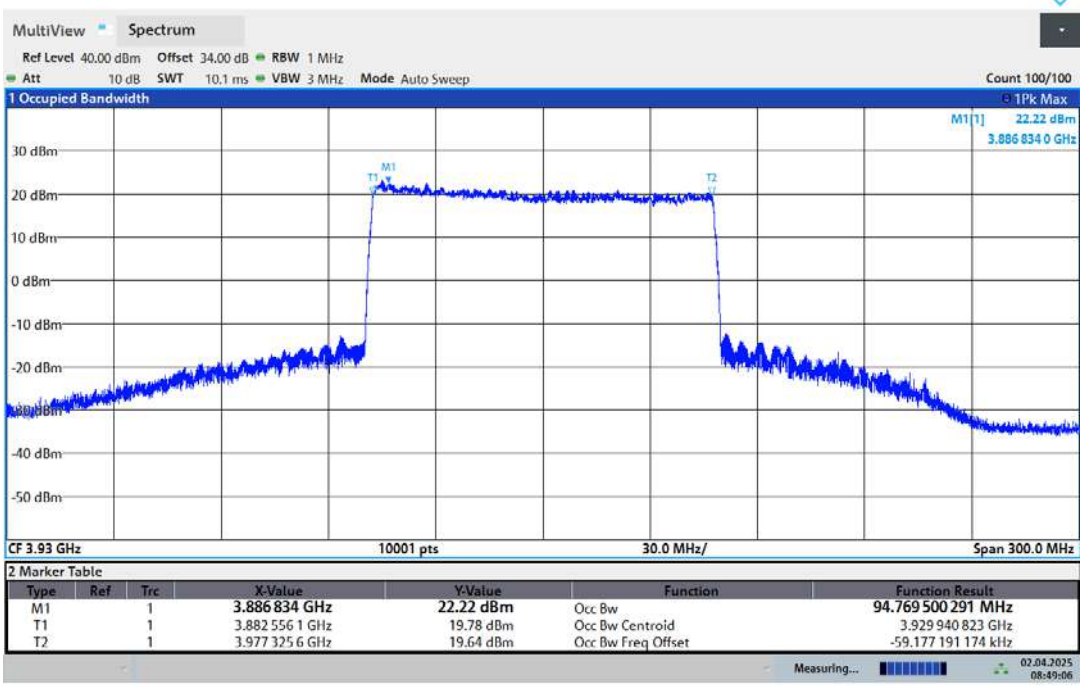

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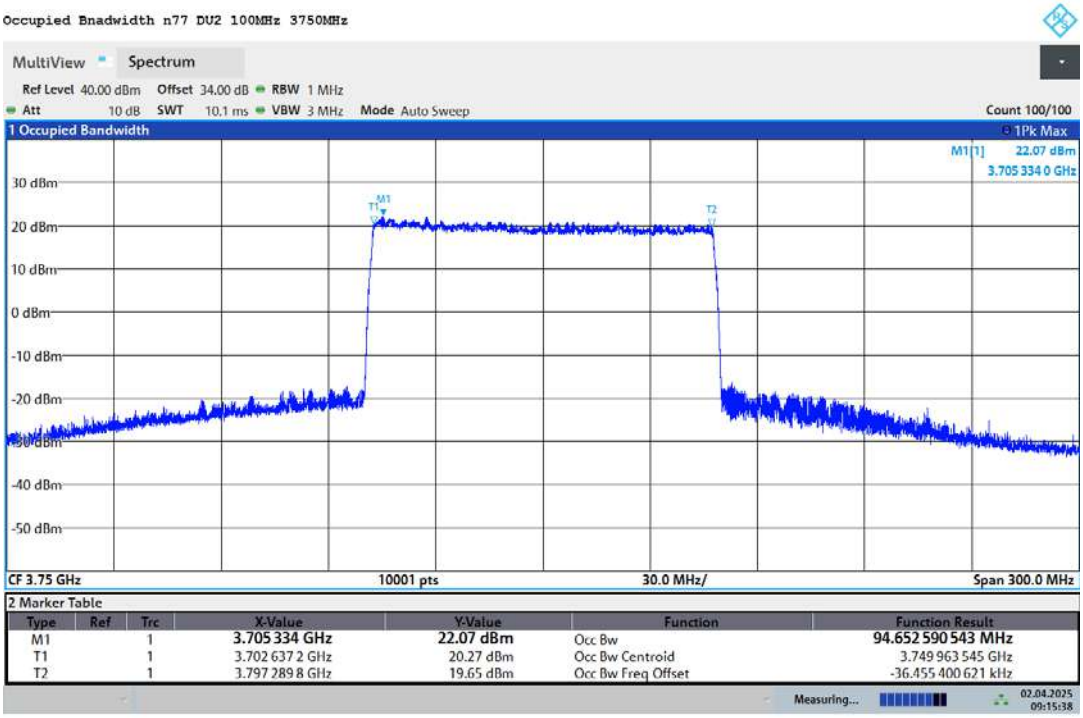
Occupied Bnadwidth n77 DU2 100MHz 3750MHz



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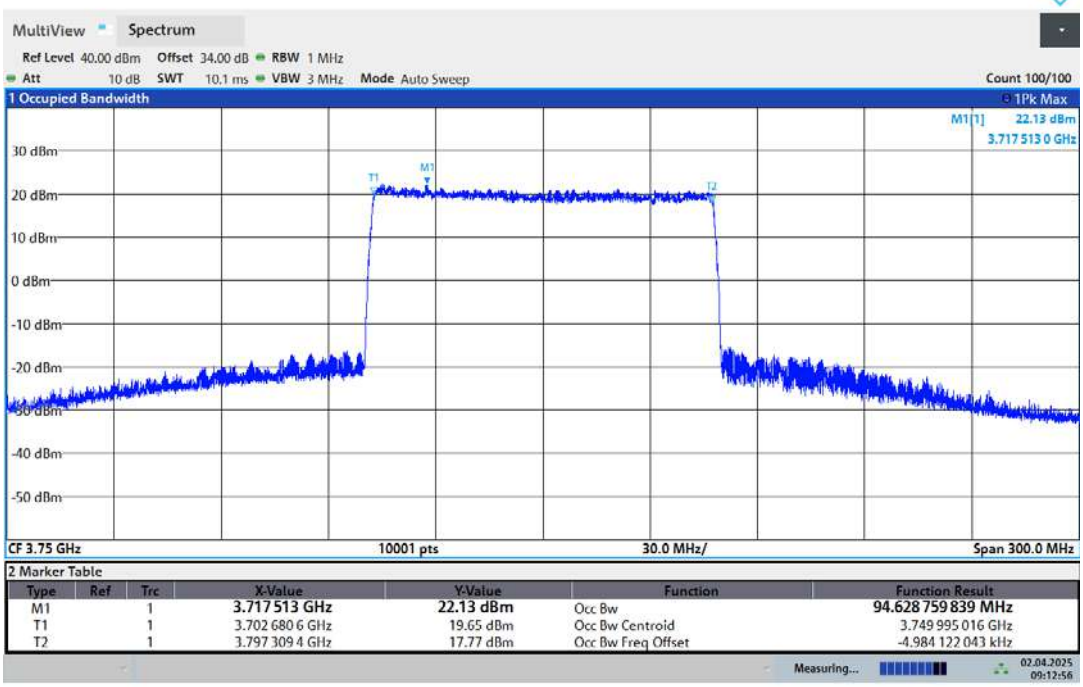
Occupied Bnadwidth n77 DU2 100MHz 3750MHz AGC+3dB



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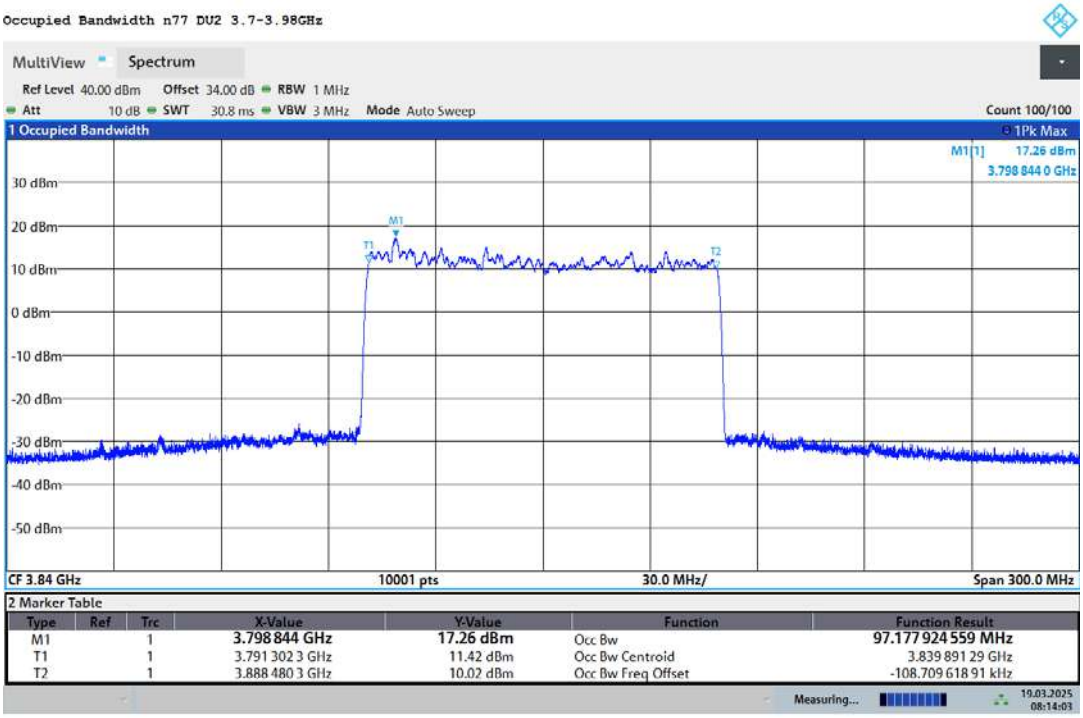
Occupied Bandwidth n77 DU2 3.7-3.98GHz



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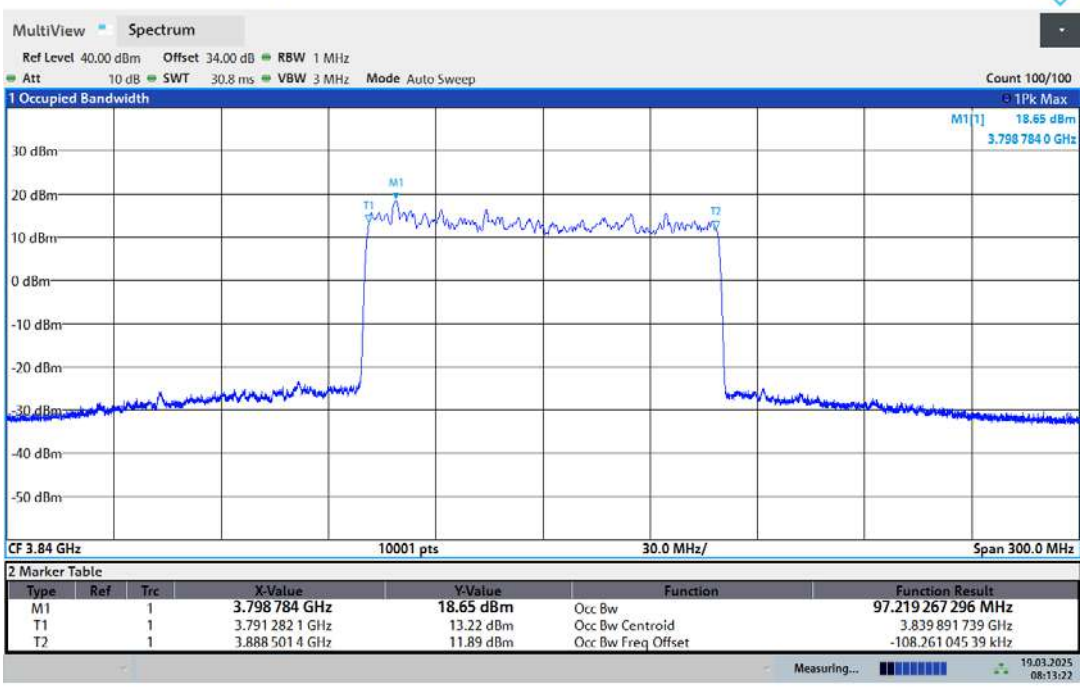
Occupied Bandwidth n77 DU2 3.7-3.98GHz AGC +3dB



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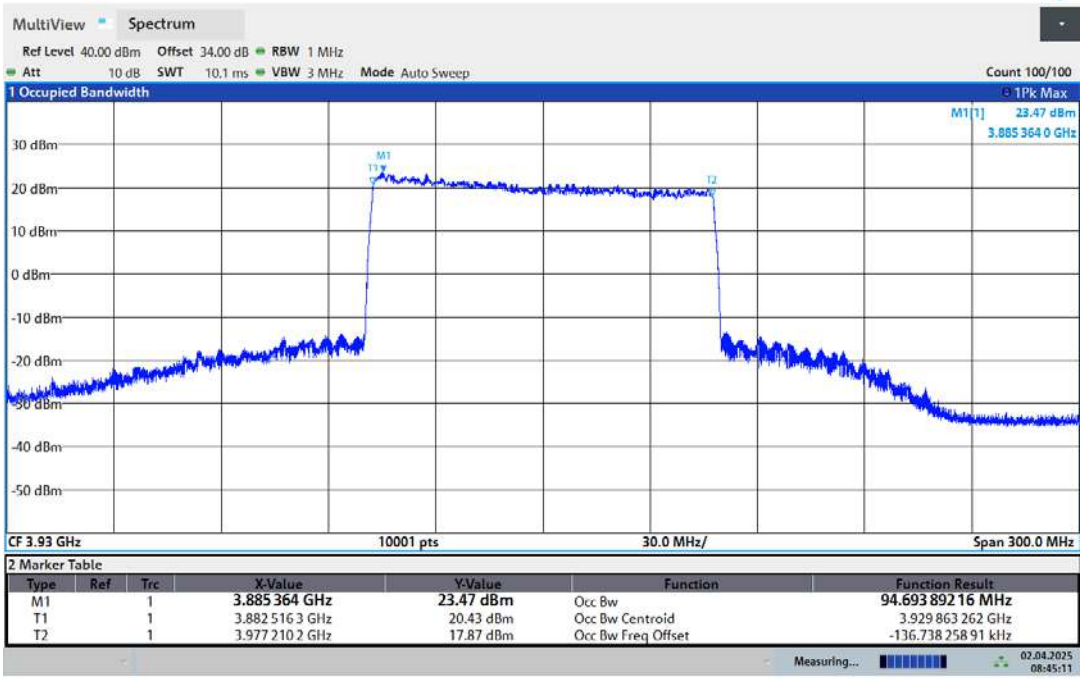
Occupied Bnadwidth n77 DU2 100MHz 3930MHz



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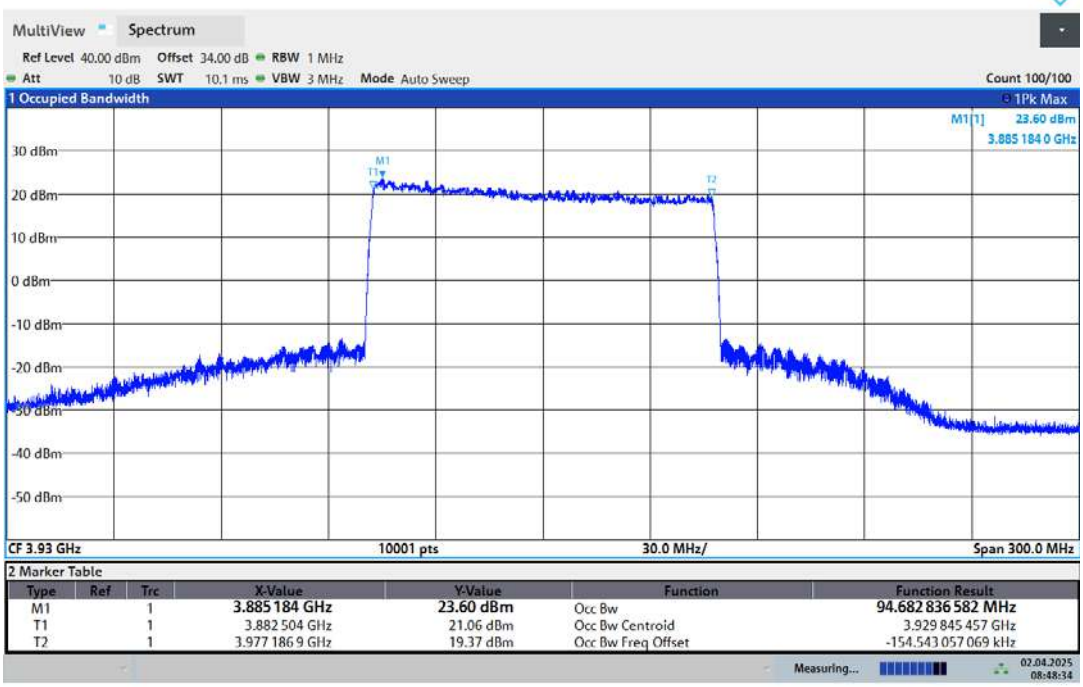
Occupied Bnadwidth n77 DU2 100MHz 3930MHz AGC+3dB



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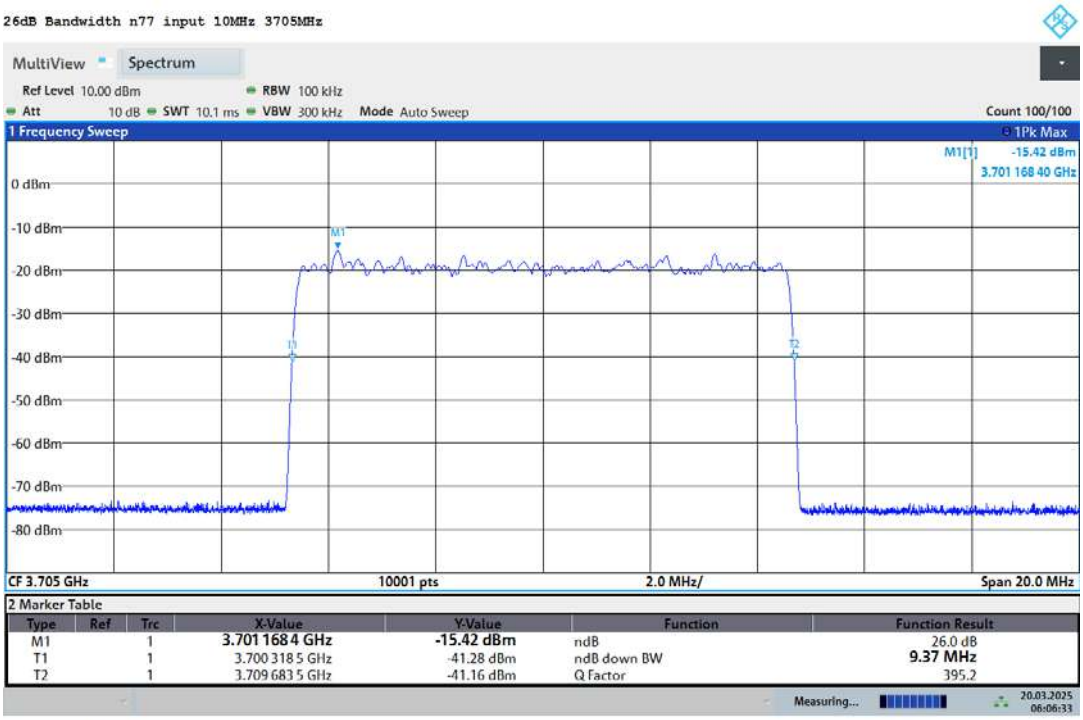
INPUT

26dB Bandwidth n77 input 10MHz 3705MHz



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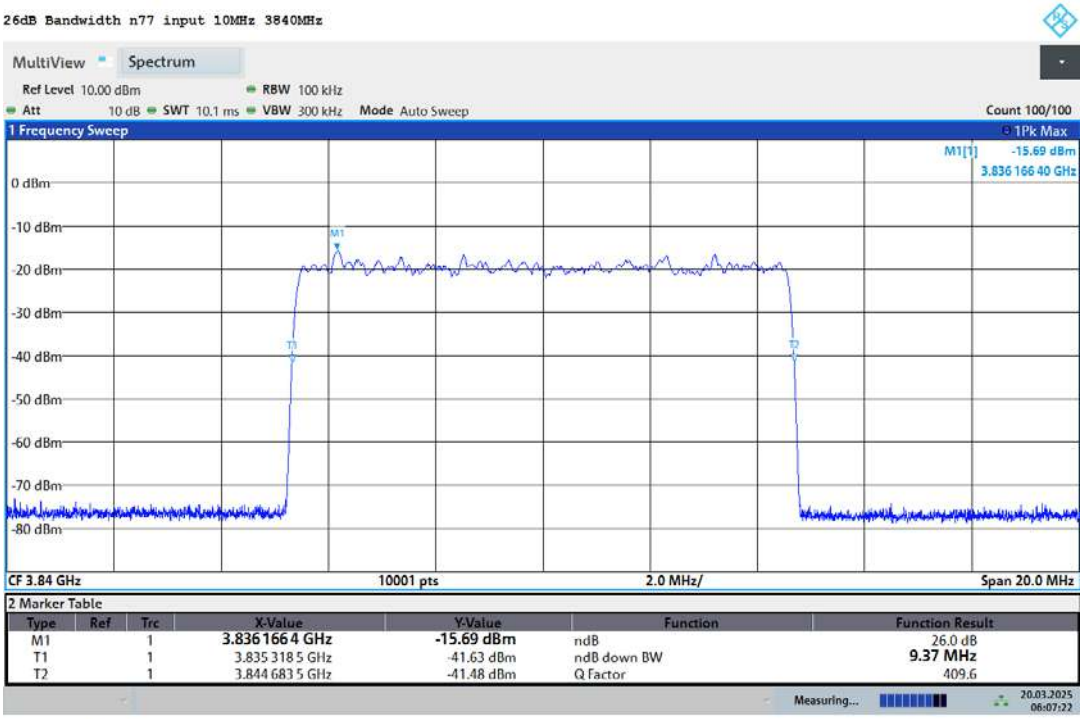
26dB Bandwidth n77 input 10MHz 3840MHz



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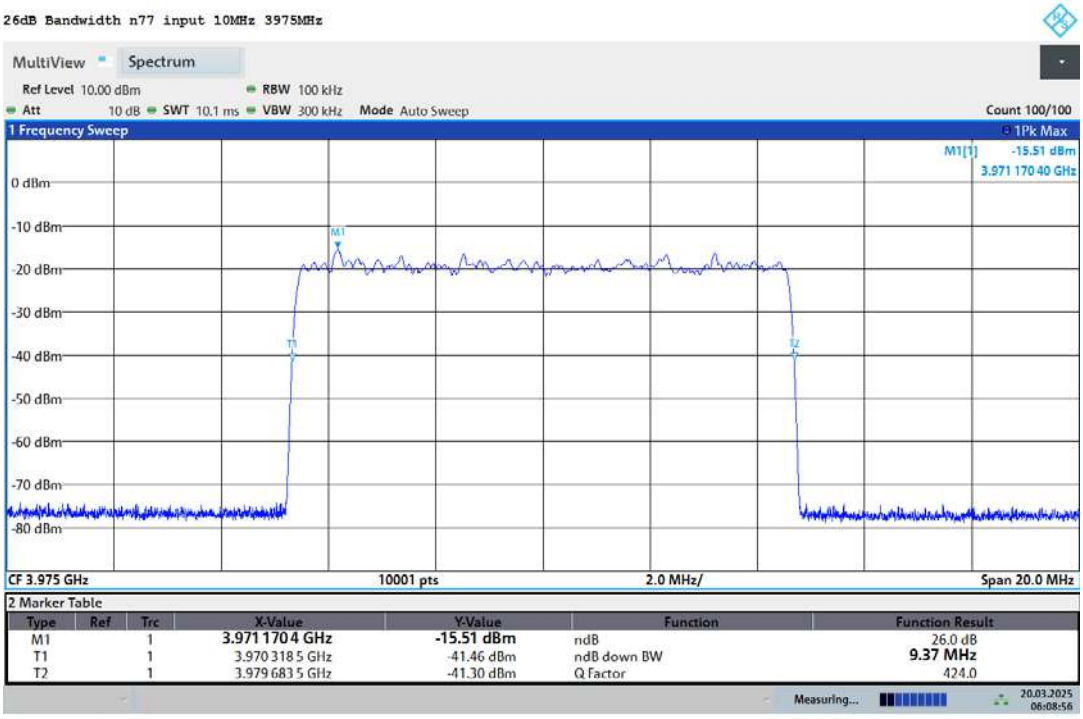
26dB Bandwidth n77 input 10MHz 3975MHz



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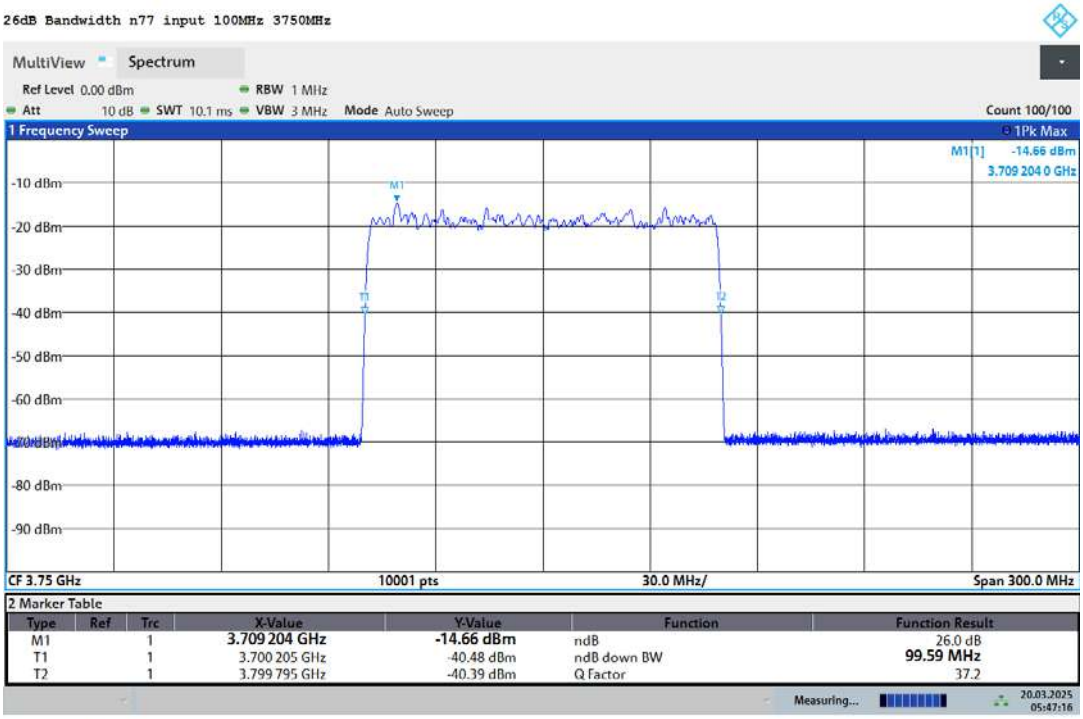
26dB Bandwidth n77 input 100MHz 3750MHz



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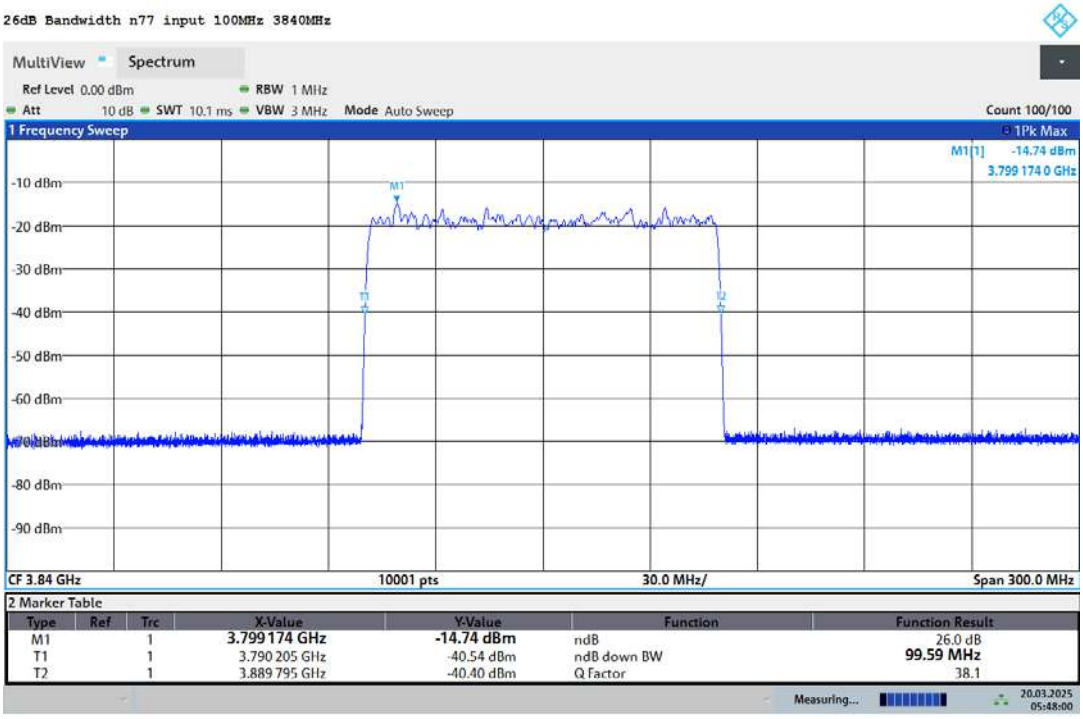
26dB Bandwidth n77 input 100MHz 3840MHz



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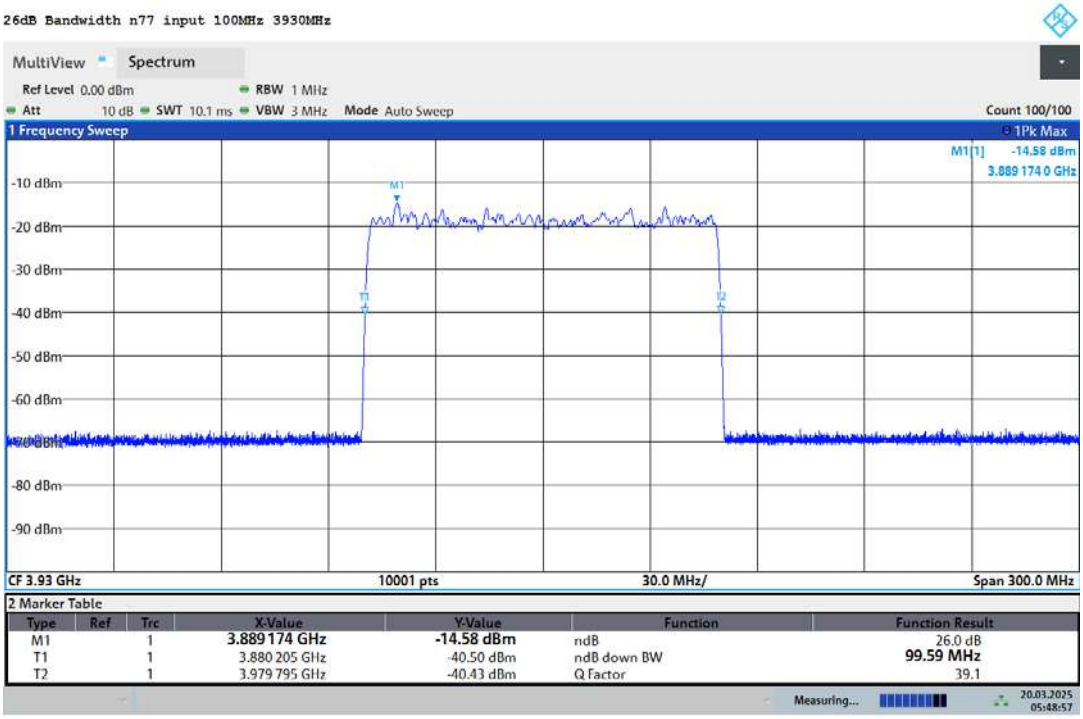
26dB Bandwidth n77 input 100MHz 3930MHz



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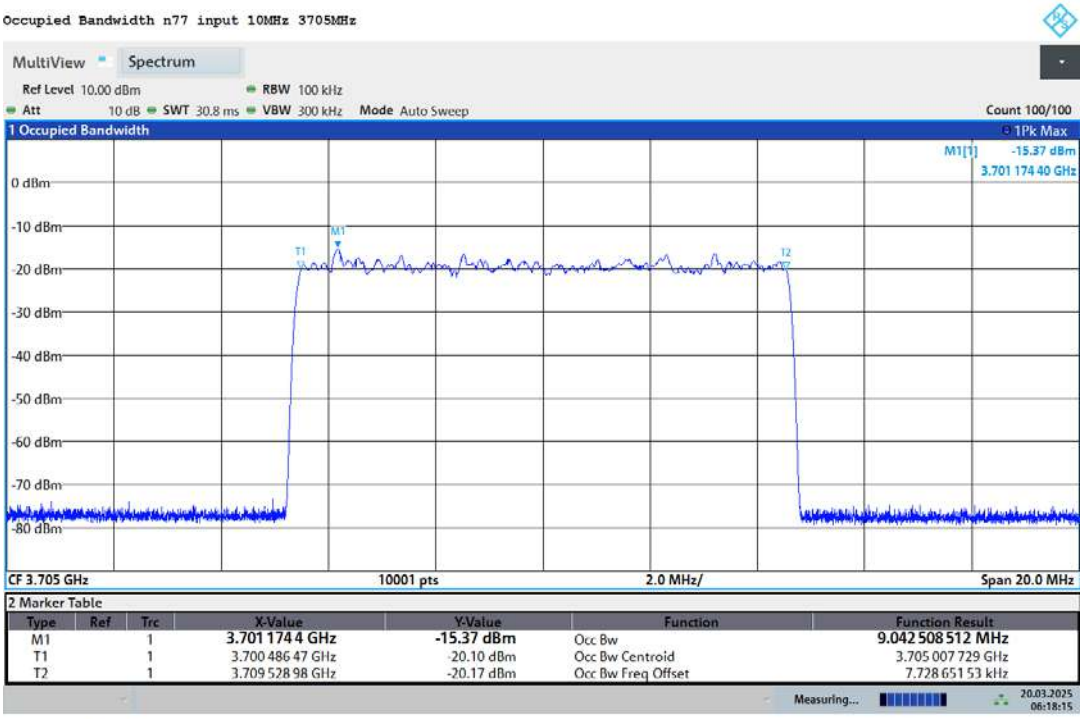
Occupied Bandwidth n77 input 10MHz 3705MHz



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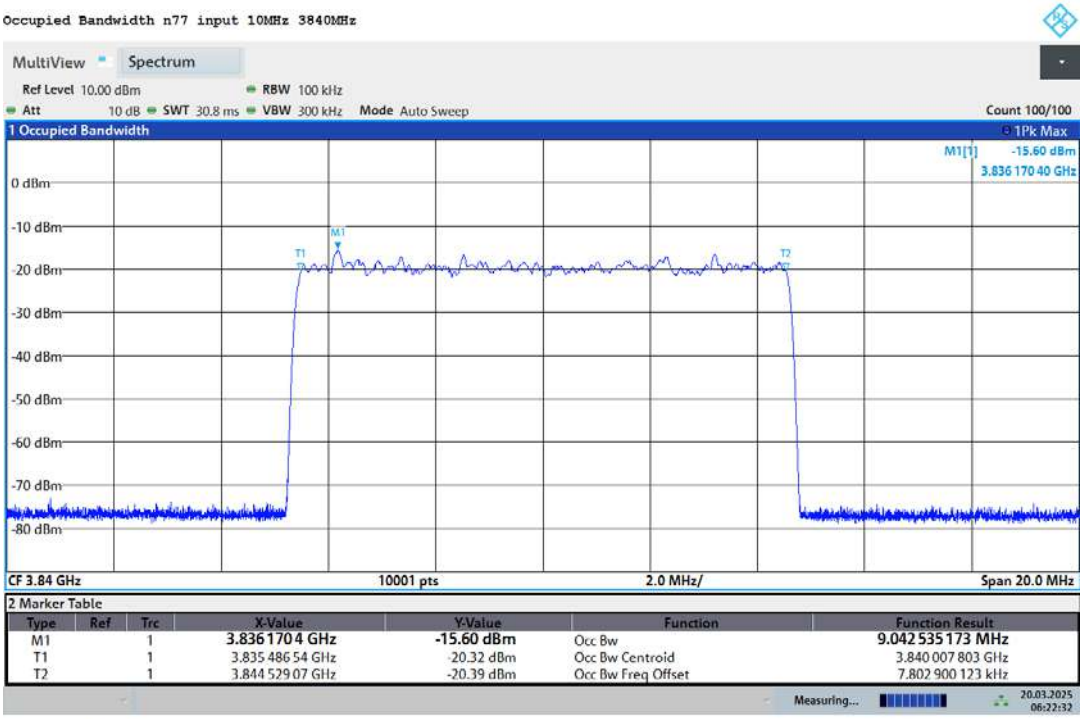
Occupied Bandwidth n77 input 10MHz 3840MHz



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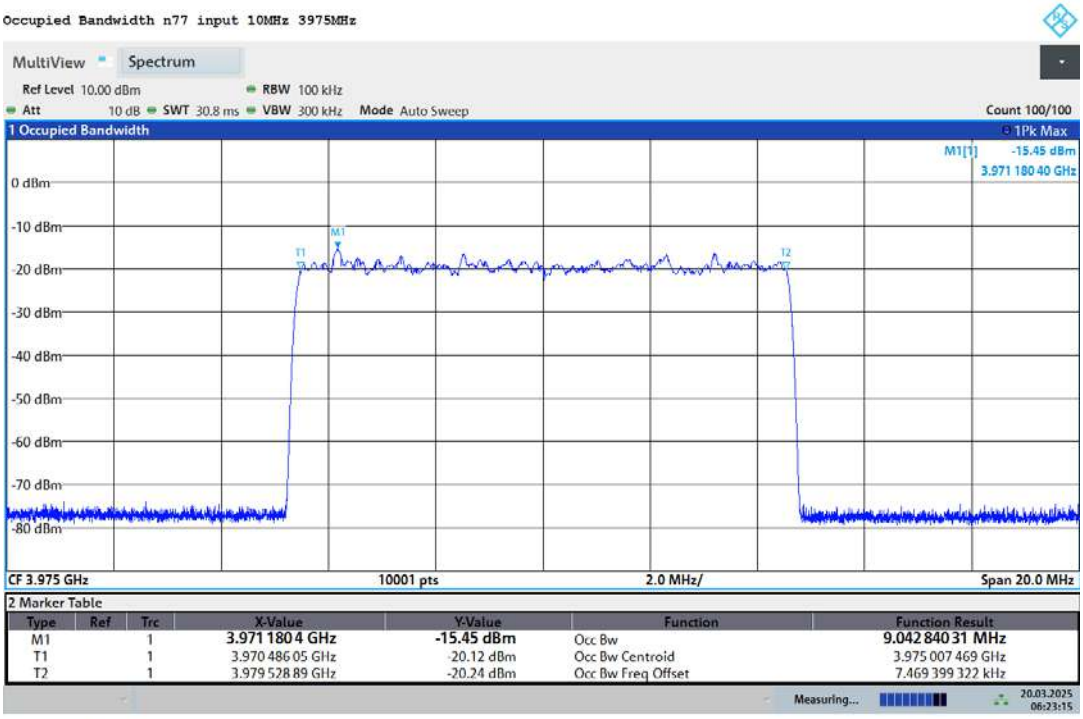
Occupied Bandwidth n77 input 10MHz 3975MHz



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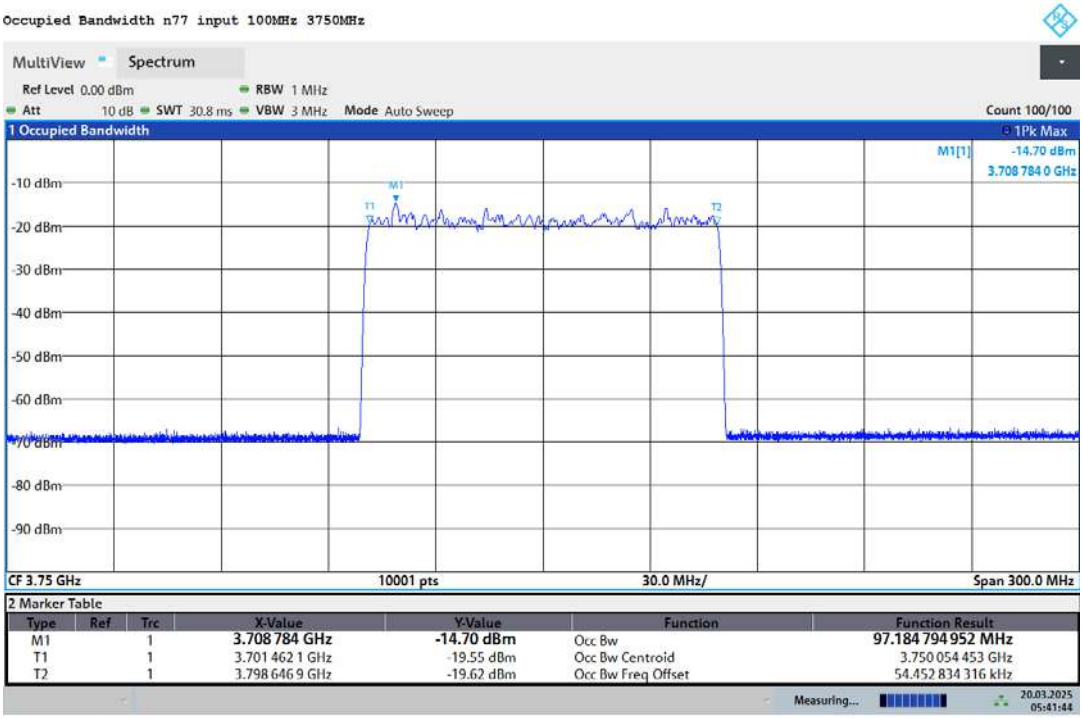
Occupied Bandwidth n77 input 100MHz 3750MHz



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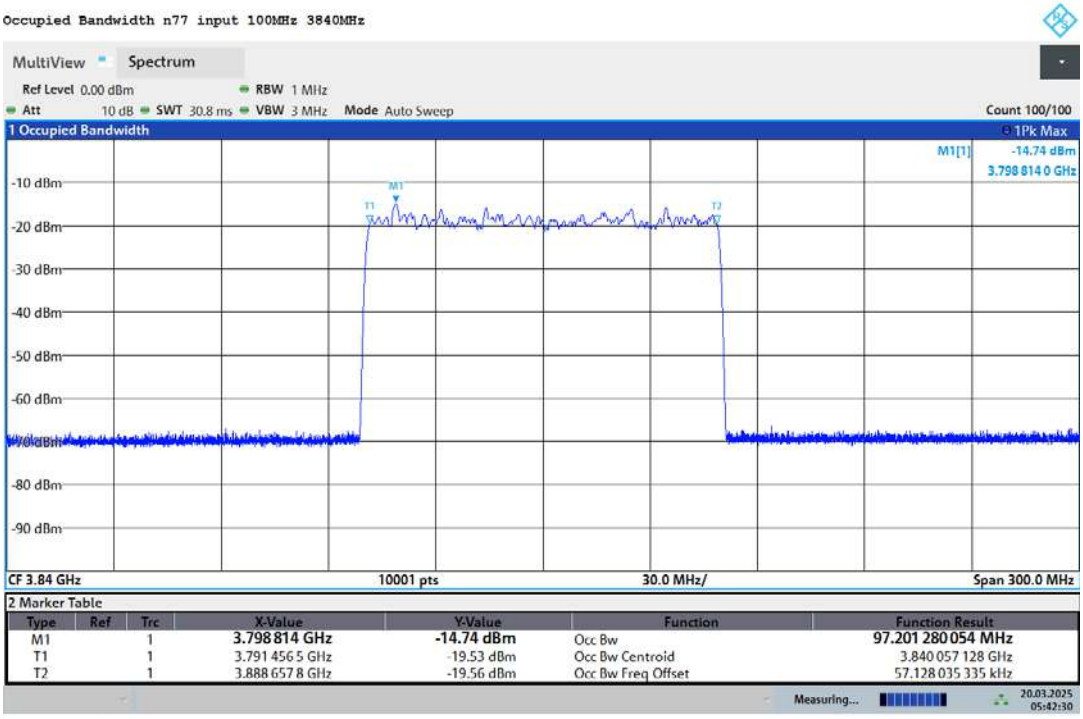
Occupied Bandwidth n77 input 100MHz 3840MHz



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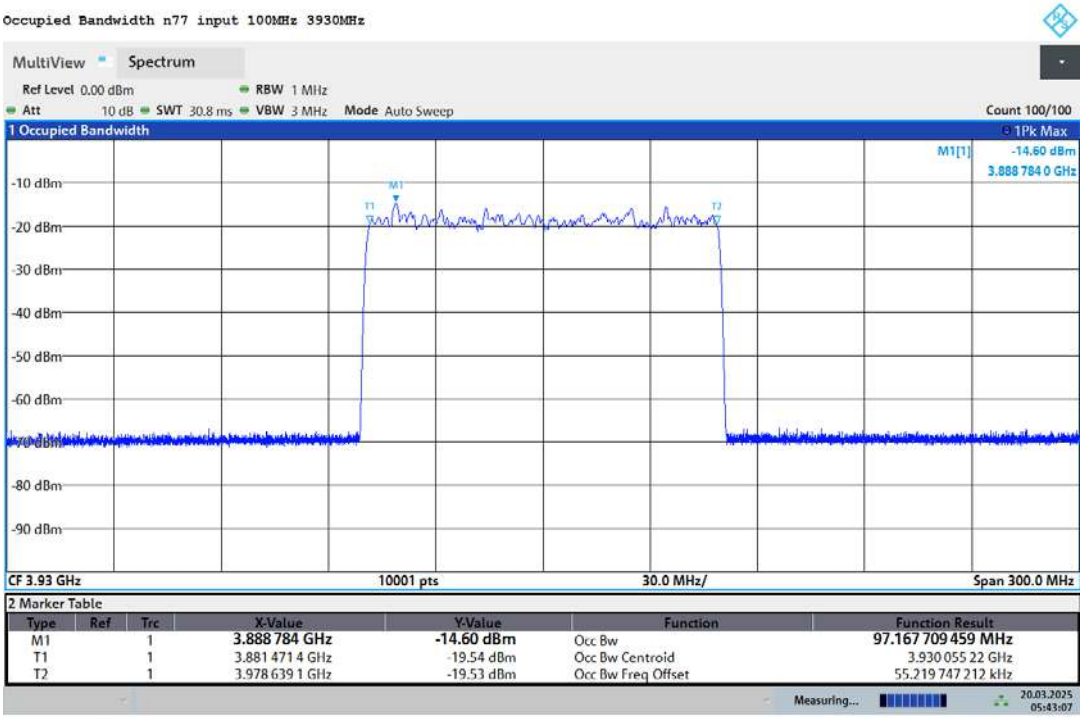
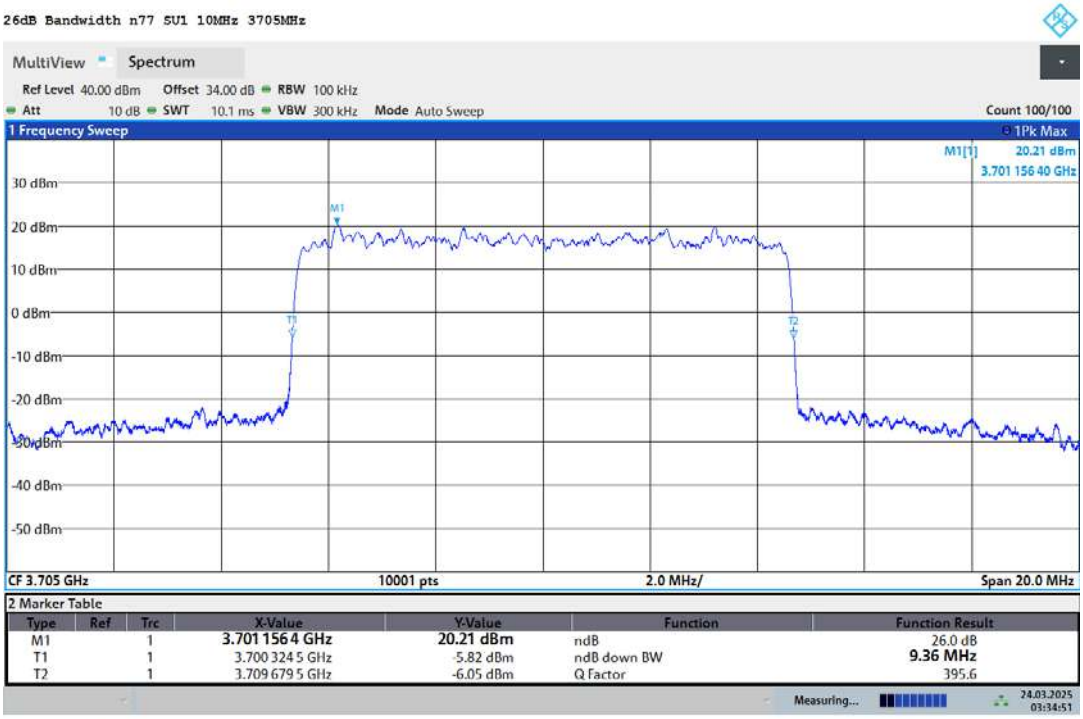
Occupied Bandwidth n77 input 100MHz 3930MHz



05:43:08 20.03.2025

SU
10M

26dB Bandwidth n77 SU1 10MHz 3705MHz



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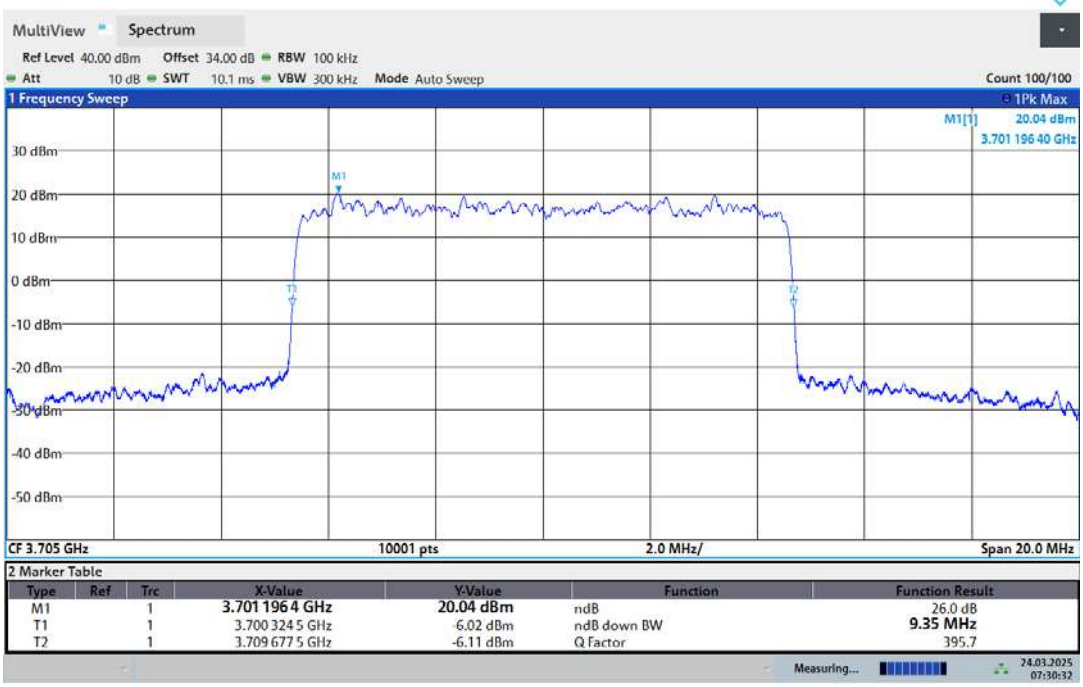
26dB Bandwidth n77 5U1 10MHz 3705MHz AGC+3dB



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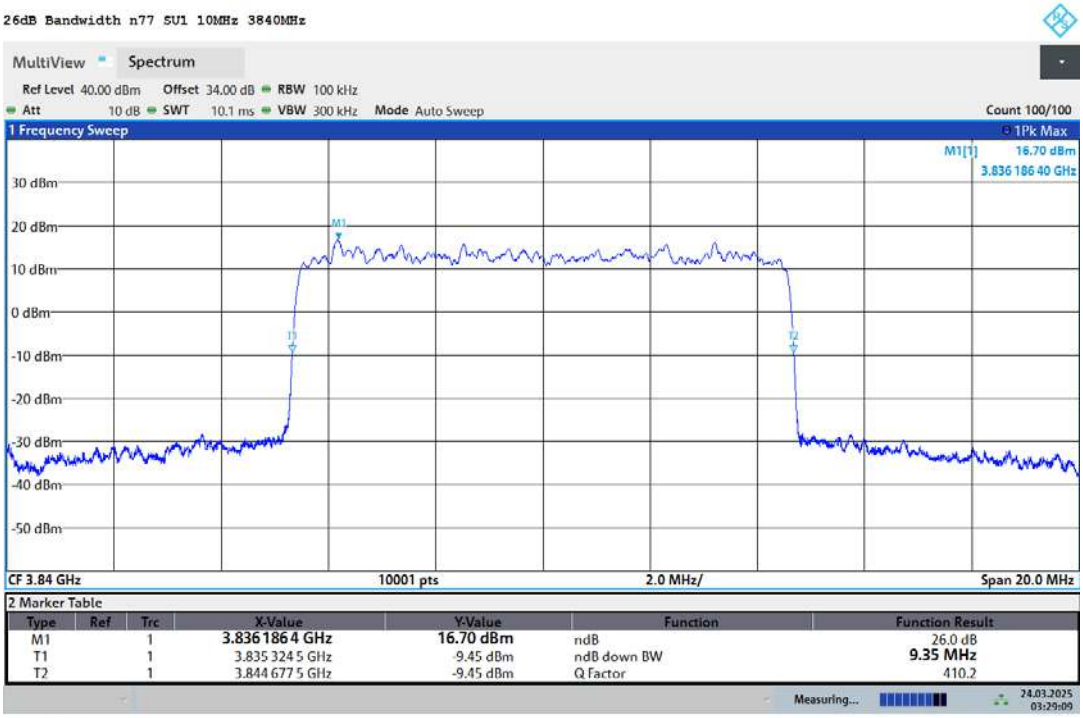
26dB Bandwidth n77 5U1 10MHz 3840MHz



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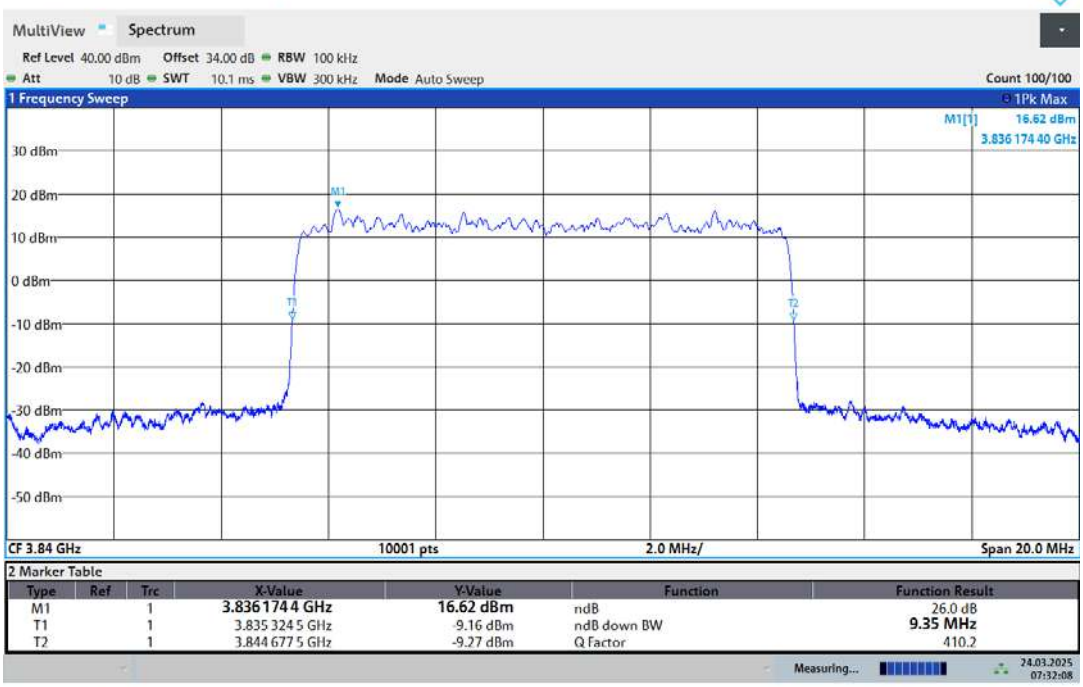
26dB Bandwidth n77 5U1 10MHz 3840MHz AGC+3dB



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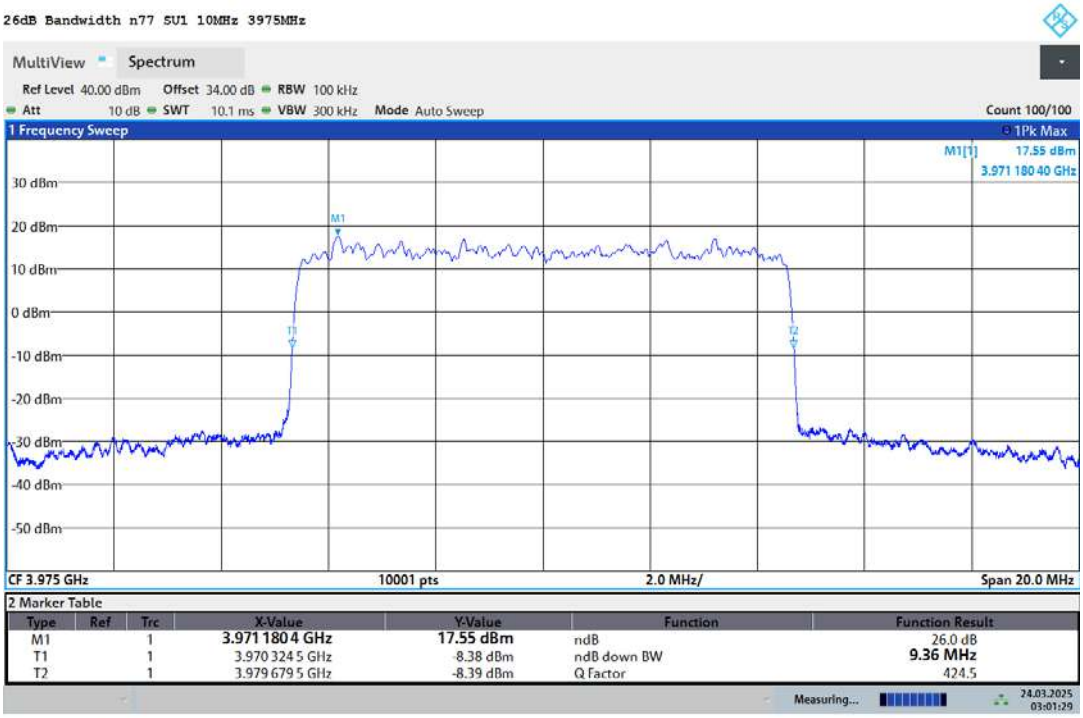
26dB Bandwidth n77 5U1 10MHz 3975MHz



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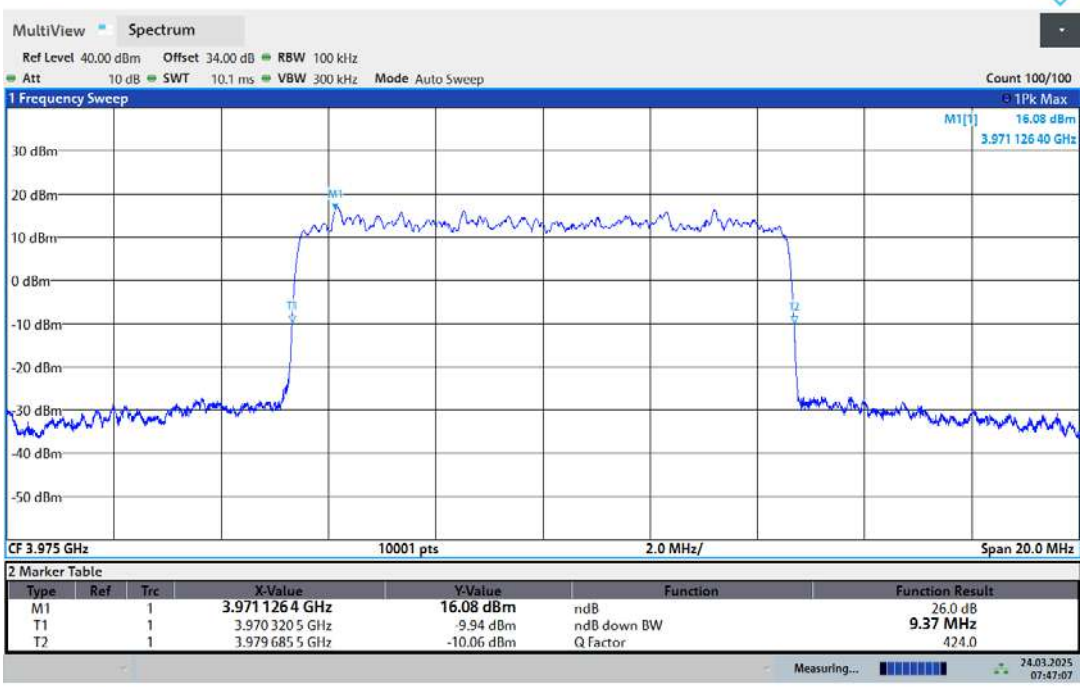
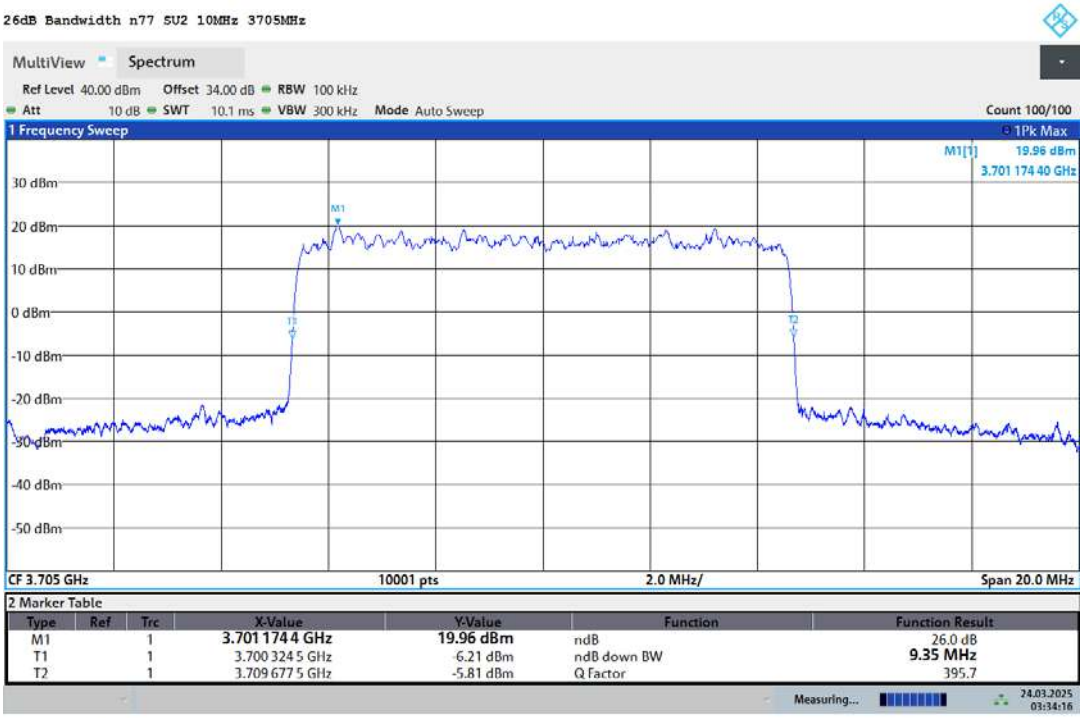
26dB Bandwidth n77 SU1 10MHz 3975MHz AGC+3dB



07:47:07 24.03.2025

26dB Bandwidth n77 SU2 10MHz 3705MHz



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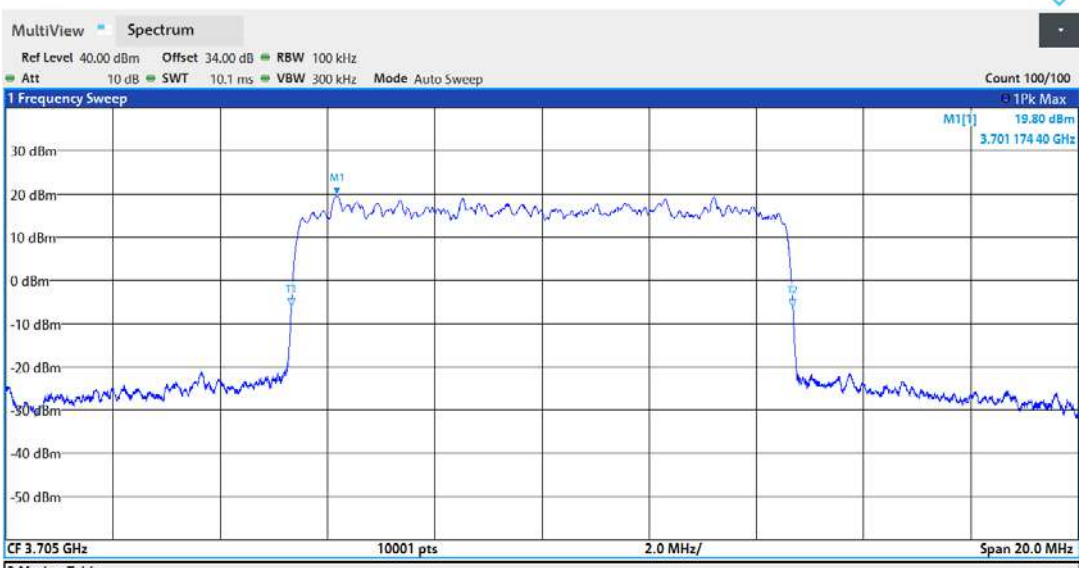
26dB Bandwidth n77 5U2 10MHz 3705MHz AGC+3dB



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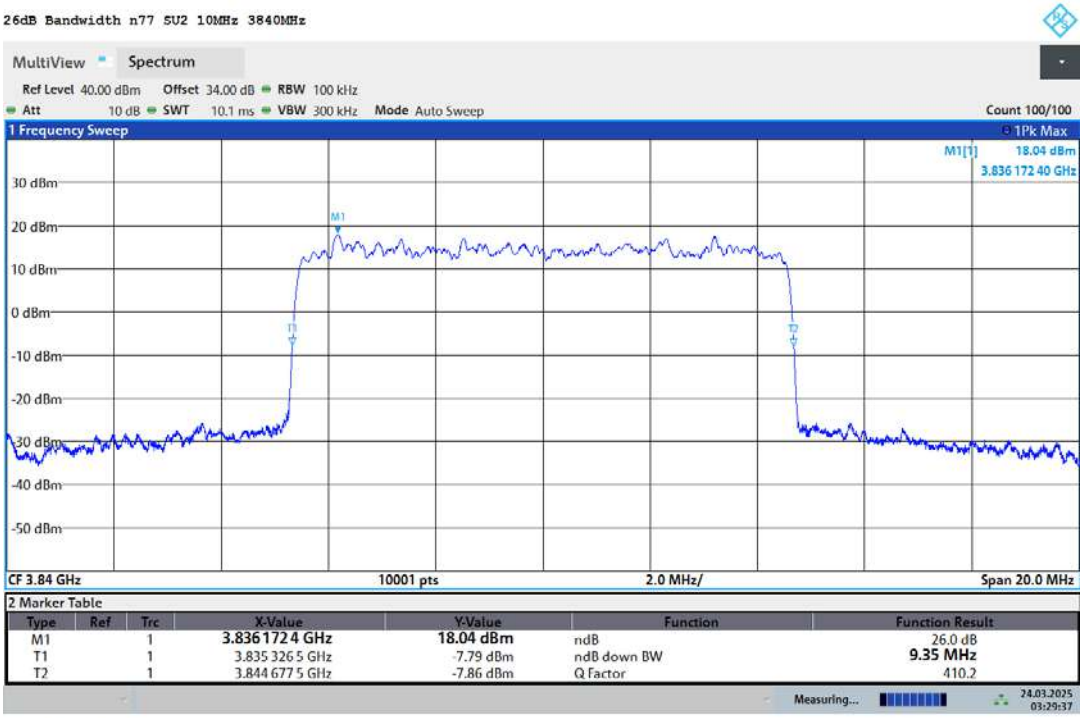
26dB Bandwidth n77 5U2 10MHz 3840MHz



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