



Test Report - FCC Part 90

Applicant: Motorola Solutions

Signature:  (On behalf of Tim Royer)

Name & Title: Stephen Whalen, Lab Manager

Date of Signature 2026-09-02

Prepared By: Mark Learner, Technical Writer

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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1 Applicant Information

Applicant: Motorola Solutions
Address: Plot 2A, Medan Bayan Lepas, Mukim 12,
S.W.D 11900, Bayan Lepas, Penang, Malaysia

2 Part 90 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 90 (PRIVATE LAND MOBILE RADIO SERVICES) known as Licensed Land Mobile; ANSI C63.26-2015. Full test results are available in this report.

Applicable Clauses from Part 2		
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
2.202	Bandwidth & Emission	Pass
2.1033 (c)(8)	Power at the Final Amplifier	Reported
2.1046 (a)	RF Output Power	Pass
2.1047	Modulation characteristics	Reported
2.1049	Occupied Bandwidth	Pass
2.1051	Spurious emissions at antenna terminals	Pass
2.1053	Field strength of spurious radiation	Pass
2.1055	Frequency stability	Pass

Applicable Clauses from Part 90		
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
90.205 (r)	Transmitter Power	Pass
90.207 (n)	Emission designator	Reported
90.209 (b) (5) footnote 2	Bandwidth limitations	Pass
90.210 (n)	Emission masks, In-band	Pass
90.210 (n)	Emission masks, Out-of-band	Pass
90.213 (a) footnote 10	Frequency stability	Pass
90.214	Transient Frequency Behavior	Pass
90.221	Adjacent channel power limits	n/a

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

3 Location of Testing

3.1 Test Laboratory

IIA Lab Services LLC. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

4 Test Sample(s) (EUT/DUT)

The test sample was received: 2026-05-18

Dates of Testing: 2026-05-26 – 2026-06-24

2026-07-27 – 2026-07-28

4.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	AZ489FT4980
Brief Description	Analog & Digital Two-Way Radio
Model(s) #	EVX-S30 ACU146U503
Firmware version	D02.46M
Software version	N/A
Serial Number	0075CH0044

Results Summary	
Power output	☒ Conducted Measurement ☐ EIRP
Power output	3.2W for Digital, 2.2W for Analog
Frequency Range	403 – 470 MHz
Occupied Bandwidth	5.812kHz (12.5kHz Analog) 10.536kHz (25kHz Analog) 8.069kHz (12.5kHz Digital)
Type of Modulation	Analog FM (12.5Khz, 25Khz) & Digital 4FSK (DMR , 12.5Khz)
Emission Classification	11K0F3E (Analog : 12.5KHz) , 7K60F1D/7K60FXD (Digital : 12.5KHz Data), 7K60F1E/7K60FXE (Digital : 12.5KHz Voice), 7K60F1W(Digital: 12.5KHz Voice and Data), 16K0F3E (25kHz)
Number of Channels	256
Duty Cycle	50%
Antenna Connector	SMA
Voltage Rating	Normal 3.8 VDC / Current 2A
Transmitter Spurious (worst case) at 3 meters	1209.04MHz @ -34.67dBm; Margine 14.67 dB
Max Frequency Deviation	0.09 kHz

Antenna Characteristics					
No.	Antenna Model	Part Number	- Antenna Type	- Description	Antenna Gain (dBi)
1	ATU-6A	AAE23X501	Whip	ATU-6A: 400-430 MHz 165 mm (6.5")	1.4
2	ATU-6B	AAE23X506	Whip	ATU-6B: 420-450 MHz 155 mm (6.1")	1.4
3	ATU-6C	AAE23X502	Whip	ATU-6C: 440-470 MHz 155 mm (6.1")	1.4
4	ATU-6D	AAE23X503	Whip	ATU-6D: 450-485 MHz 152 mm (6")	1
5	ATU-20AS	AAM23X501	Stubby	- ATU-20AS: Stubby 400-430 MHz 80 mm (3.15")	1.8
6	ATU-20CS	AAM23X504	Stubby	- ATU-20CS: Stubby 420-450 MHz 80 mm (3.15")	1.8
7	ATU-20DS	AAM23X502	Stubby	ATU-20DS: Stubby 440-470 MHz 80 mm (3.15")	1.8
8	ATU-20FS	AAM23X503	Stubby	ATU-20FS: Stubby 450-480 MHz 80 mm (3.15")	1.8
9	ATU-21AS	AAM28X501	Super Stubby	ATU-21AS: Super Stubby 400-420 MHz 50.8 mm (2")	-5.13
10	ATU-21CS	AAM28X502	Super Stubby	ATU-21CS: Super Stubby 420-440 MHz 50.8 mm (2")	-3.98
11	ATU-21DS	AAM28X503	Super Stubby	ATU-21DS: Super Stubby 440-460 MHz 50.8 mm (2")	-4.28
12	ATU-21FS	AAM28X504	Super Stubby	ATU-21FS: Super Stubby 460-480 MHz 50.8 mm (2")	-5.66

- Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

4.2 Configuration of EUT

Test Modes				
Mode (#)	Mode (Type)	Test Frequencies (MHz)	BW (nominal) (kHz)	Emission Designator
1	Analog	403.0125, 406.1, 450.025, 479.975	12.5 25	F3E
2	Digital		12.5	F1D, FXD, F1E, FXE, F1W

Modulations F1D, FXD, F1E, FXE, F1W share the same 4FSK digital modulation scheme and baseband physical layer characteristic. Test results obtained using F1D/digital mode are representative for all listed digital emission designators.

Operating conditions during Testing:

The device was operated without the provided antenna(s).

No other modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT) were made.

Peripherals used during Testing:

A laptop provided by the manufacturer was used to program the EUT.

4.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

5 Test methods & Applicable Regulatory Limits

5.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed Part 90 Licensed device:

- 1) ANSI C63.26-2015

5.2 Applied Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 90

6 Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	± 3.14 dB
Radiated Emissions (9kHz – 30 MHz)	± 3.08 dB
Radiated Emissions (30 – 200 MHz)	± 2.16 dB
Radiated Emissions (200 – 1000 MHz)	± 2.15 dB
Radiated Emissions (1 GHz – 18 GHz)	± 2.14 dB
Radiated Emissions (18 GHz – 40 GHz)	± 2.31 dB
Note: The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2. Statements of conformity are made based on simple acceptance decision rules. Acceptance limits are equal to the specifications or tolerance limits without guard banding.	

7 Environmental Conditions

7.1 Temperature & Humidity

Measurements performed at the test site did not exceed the following:

Parameter	Measurement
Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric Pressure	30.05 in Hg
Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.	

8 List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

8.1 List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna	Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	7/2/2024	7/2/2027
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	10/23/25	10/23/2027
Frequency Counter	Frequency Counter	Hewlett Packard	5385A	2730A03025	3/31/2026	3/30/2028
Temperature Chamber	Temperature Chamber	Cincinnati Sub Zero	ZPHS-32-6-6-5C/AC	ZP2431505	11/26/24	11/26/2026
Oscilloscope	Oscilloscope	Rohde & Schwarz	RTM3002	113602	11/3/25	11/3/2027
CHAMBER	CHAMBER	Panashield	3M	N/A	12/31/25	12/31/2027
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	9/3/25	9/3/2027
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	1/20/25	1/20/2028

Software			
Software	Author	Version	Validation on
ESW44 Firmware	Rohde & Schwarz	Windows 10 Version 2.10	2025
Field Strength	IIA	v4.10.7.0	2016
Field Meter	Wave Control SMP2	2.5.5	2024
EMC32	Rohde & Schwarz	11.60.00	2025

9 Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

Example:

Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dB μ V	+10.36 dB/m	+0.40 dB	=30.36 dB μ V/m @ 3m

EIRP = Pcond (dBm) + dBi

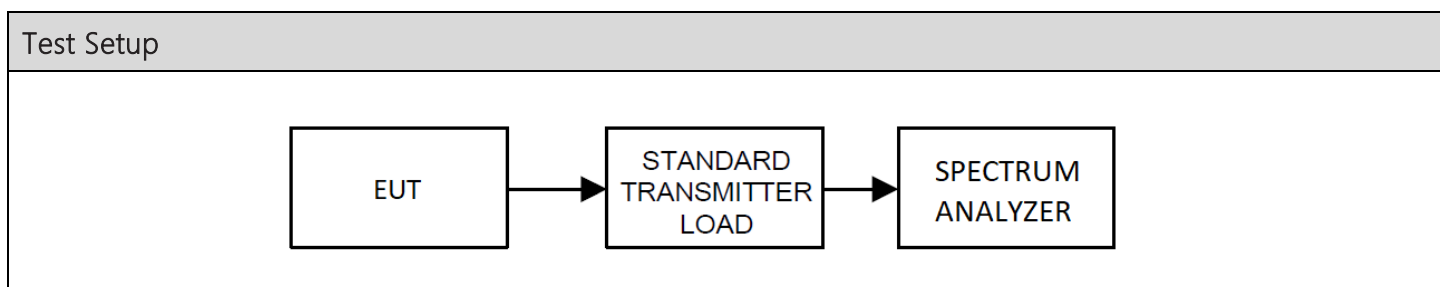
9.1 Power at the Final Amplifier

Limits from FCC Part 2.1033 (c)(8). No method of measurement is specified.

Test Results		
EUT Operating Voltage (V)	EUT Current (A)	Power at the Final Amplifier (W)
3.8	2	7.6

9.2 RF Output Power

Limits from FCC Parts 2.1046(a), and 90.205 (r); and test procedure from ANSI C63.26-2015.

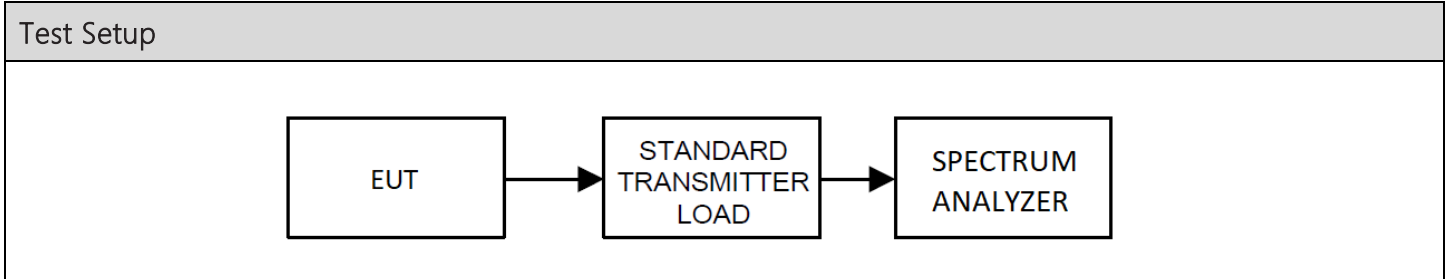


9.2.1 RF Power Output Table

	Frequency	Loss	MTR	Power	Power
	MHz	dB	dBm	dBm	W
Analog	403.0125	42.06	-8.6	33.33	2.15
	406.1	42	-8.53	33.24	2.10
	450.025	43.41	-10.3	33.11	2.04
	479.975	45.54	-12.63	32.91	1.95
Digital	403.0125	42.06	-7.08	34.98	3.14
	406.1	42	-7.01	34.99	3.15
	450.025	43.41	-8.35	35.06	3.20
	479.975	45.54	-10.77	34.77	2.99

9.3 Bandwidth & Emission

Limits from FCC Parts 2.1049, and 90.207 & 90.209, and test procedure from ANSI C63.26-2015.

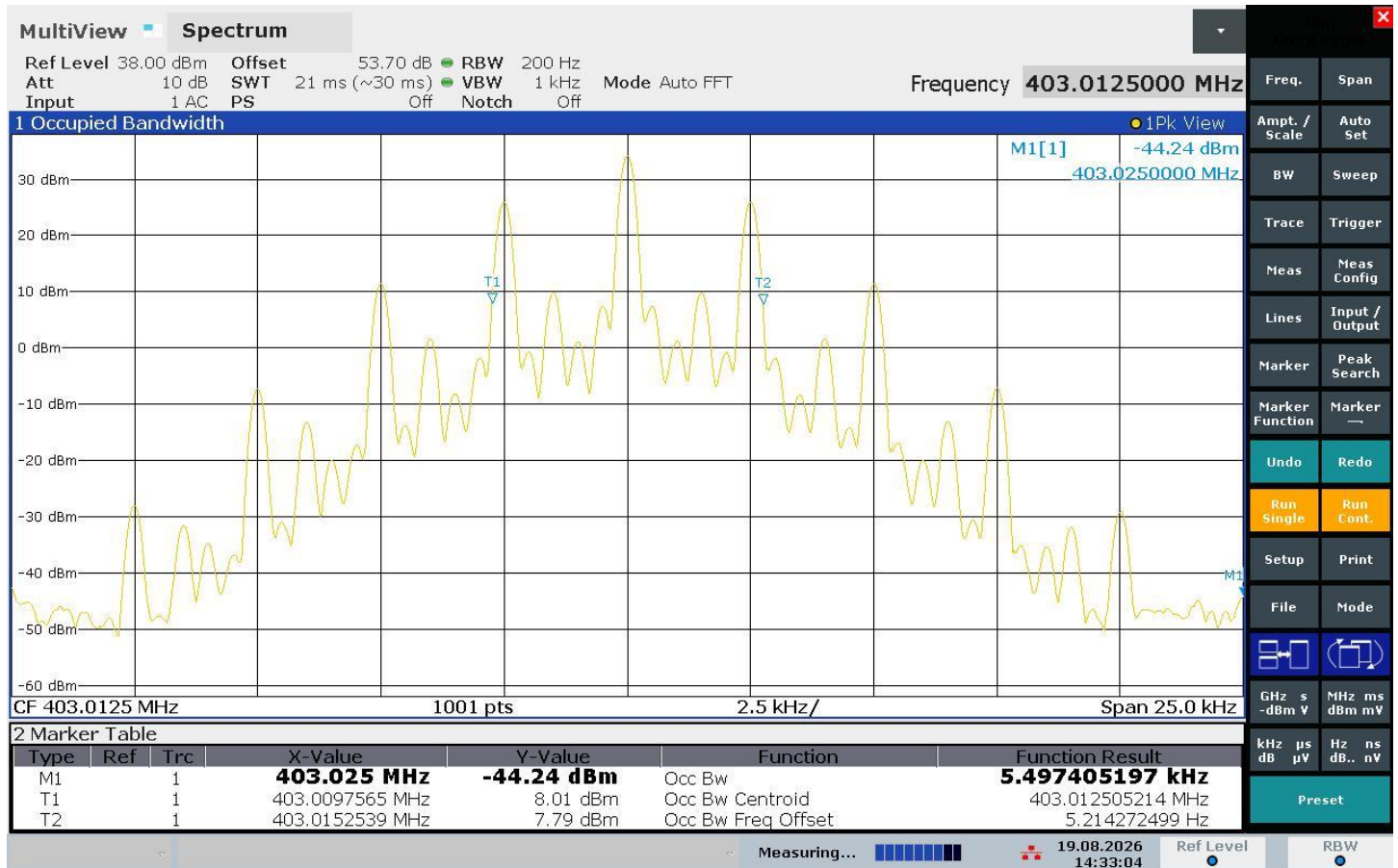


Test Results, Authorized Bandwidth		
Rule Part	Operating Range (MHz)	Authorized Bandwidth (kHz)
Part 90	403 – 480	Analog: 12.5 / 25 Digital: 12.5

Test Results, Occupied Bandwidth			
Tuned Frequency (MHz)	Mode	Occupied Bandwidth (kHz)	Bandwidth Type
403.0125	Analog – 12.5KHz	5.497	99%
	Analog – 25KHz	10.372	99%
	Digital – 12.5KHz	8.069	99%
406.1	Analog – 12.5KHz	5.477	99%
	Analog – 25KHz	10.48	99%
	Digital – 12.5KHz	8.01	99%
450.025	Analog – 12.5KHz	5.812	99%
	Analog – 25KHz	10.5	99%
	Digital – 12.5KHz	7.707	99%
479.975	Analog – 12.5KHz	5.444	99%
	Analog – 25KHz	10.536	99%
	Digital – 12.5KHz	7.718	99%

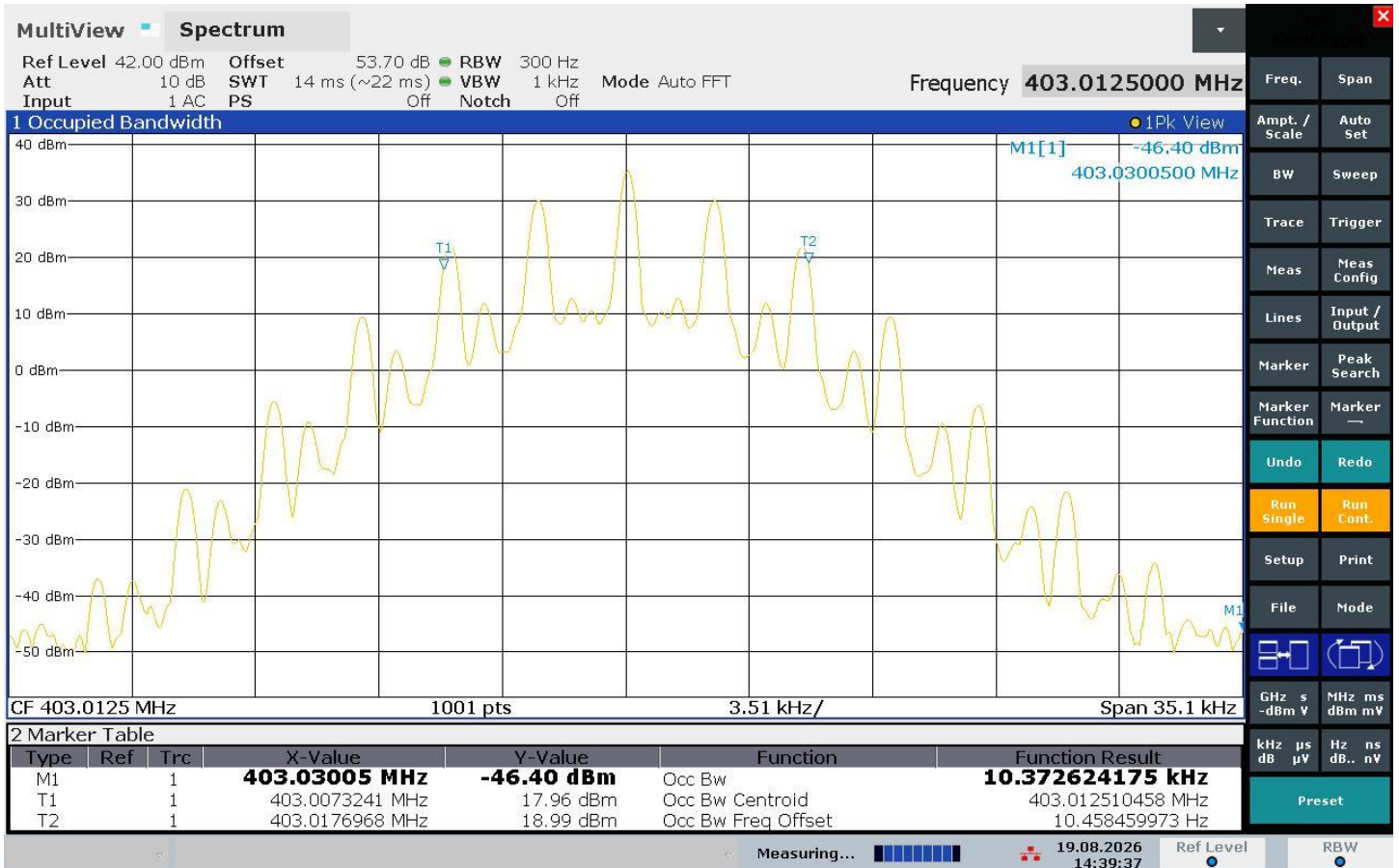
Occupied Bandwidth, Spectrum Plots

9.3.1 99% Bandwidth Plot, 12.5 kHz FM, Analog, 403.0125 MHz



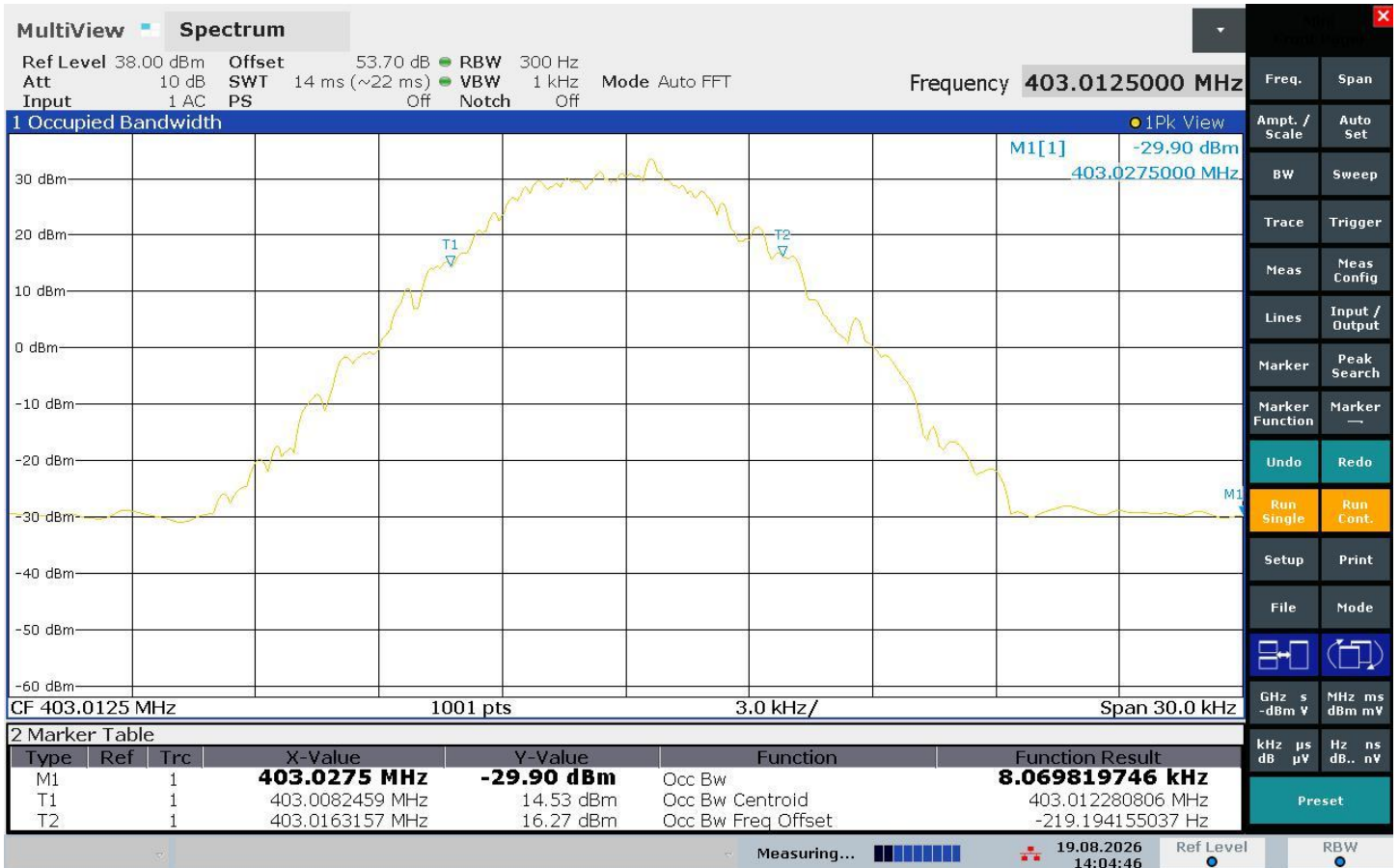
14:33:05 19.08.2026

9.3.2 99% Bandwidth Plot, 25 kHz FM, Analog, 403.0125 MHz



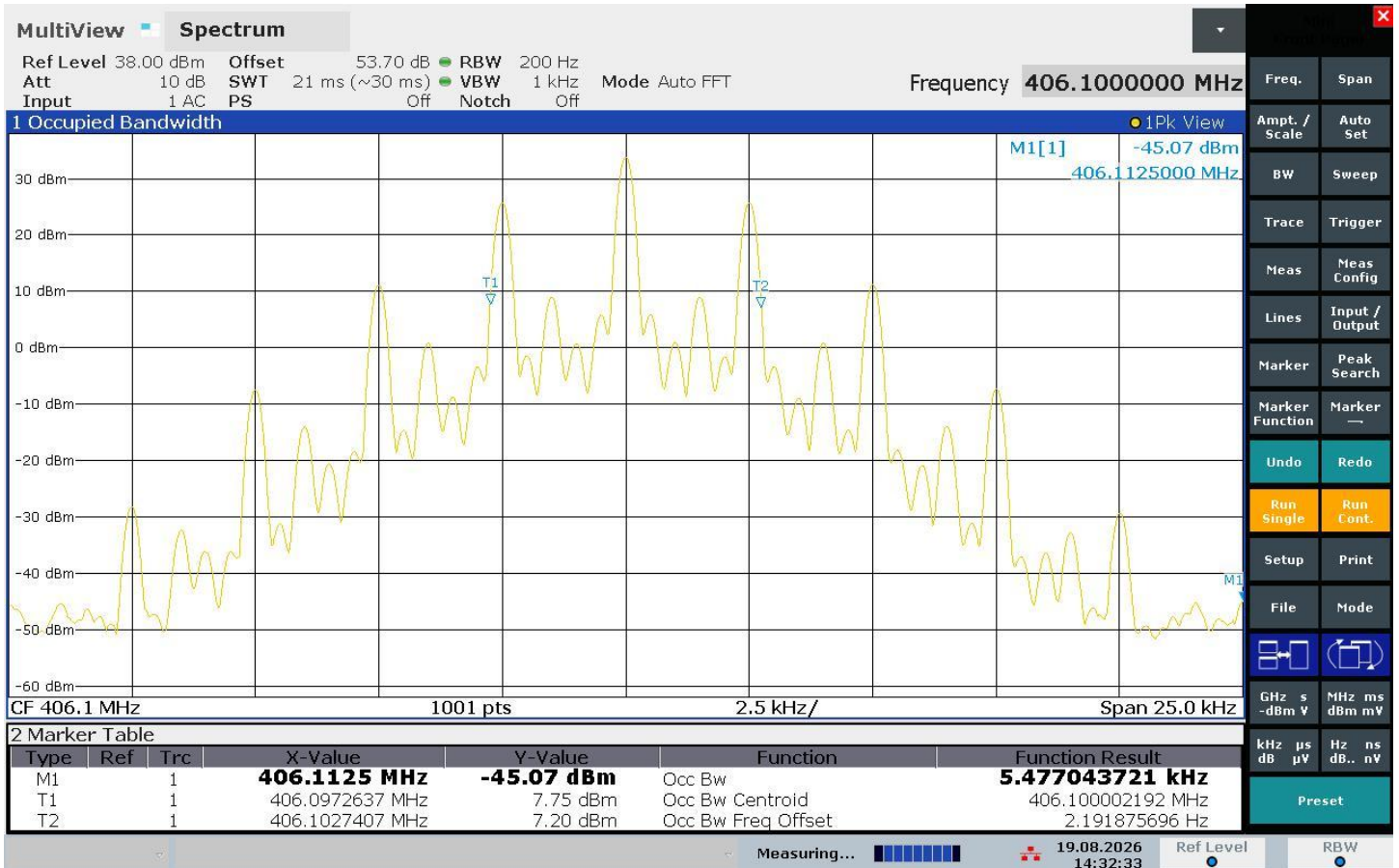
14:39:37 19.08.2026

9.3.3 99% Bandwidth Plot, 12.5 kHz FM, Digital, 403.0125 MHz



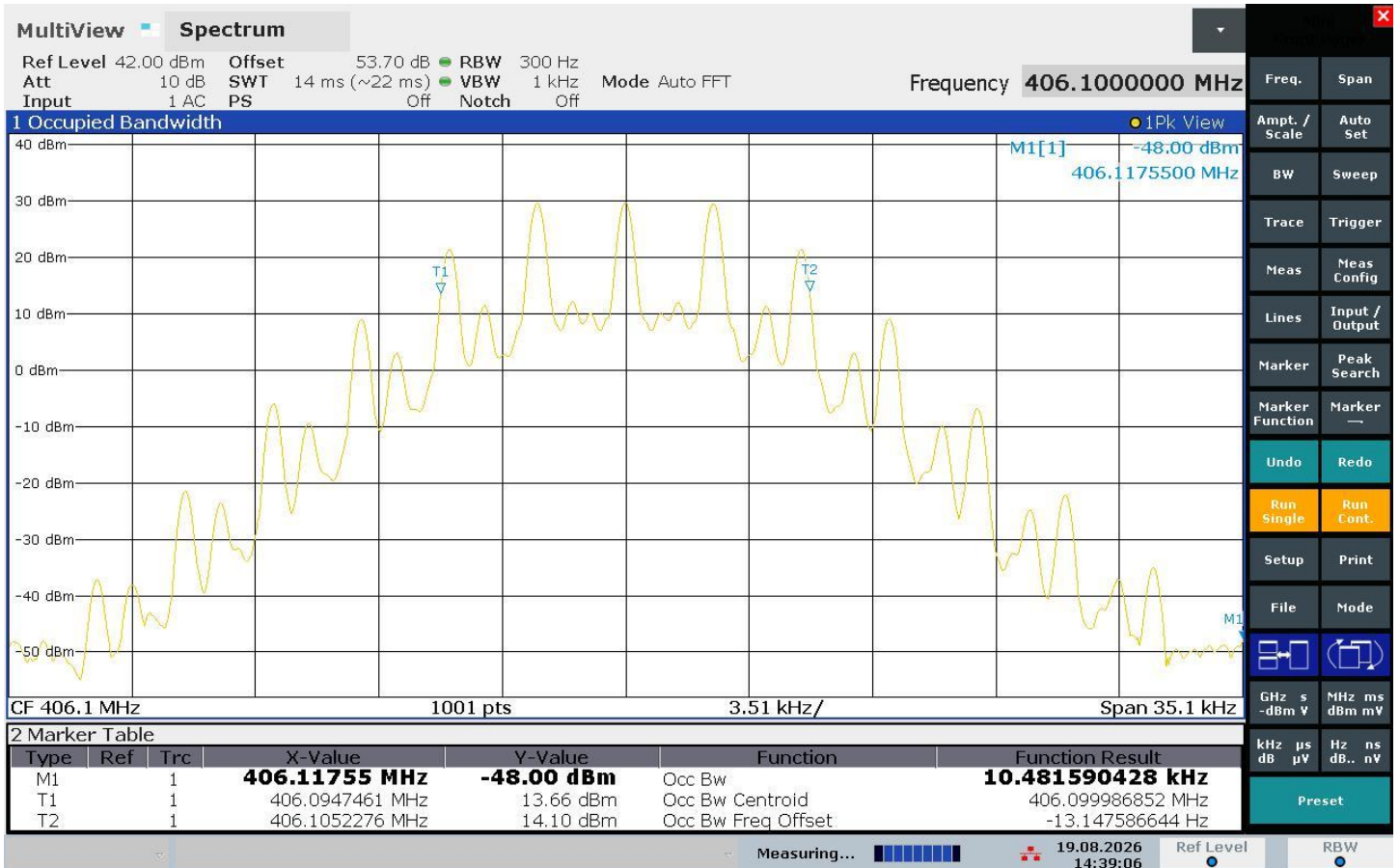
14:04:47 19.08.2026

9.3.4 99% Bandwidth Plot, 12.5 kHz FM, Analog, 406.1 MHz



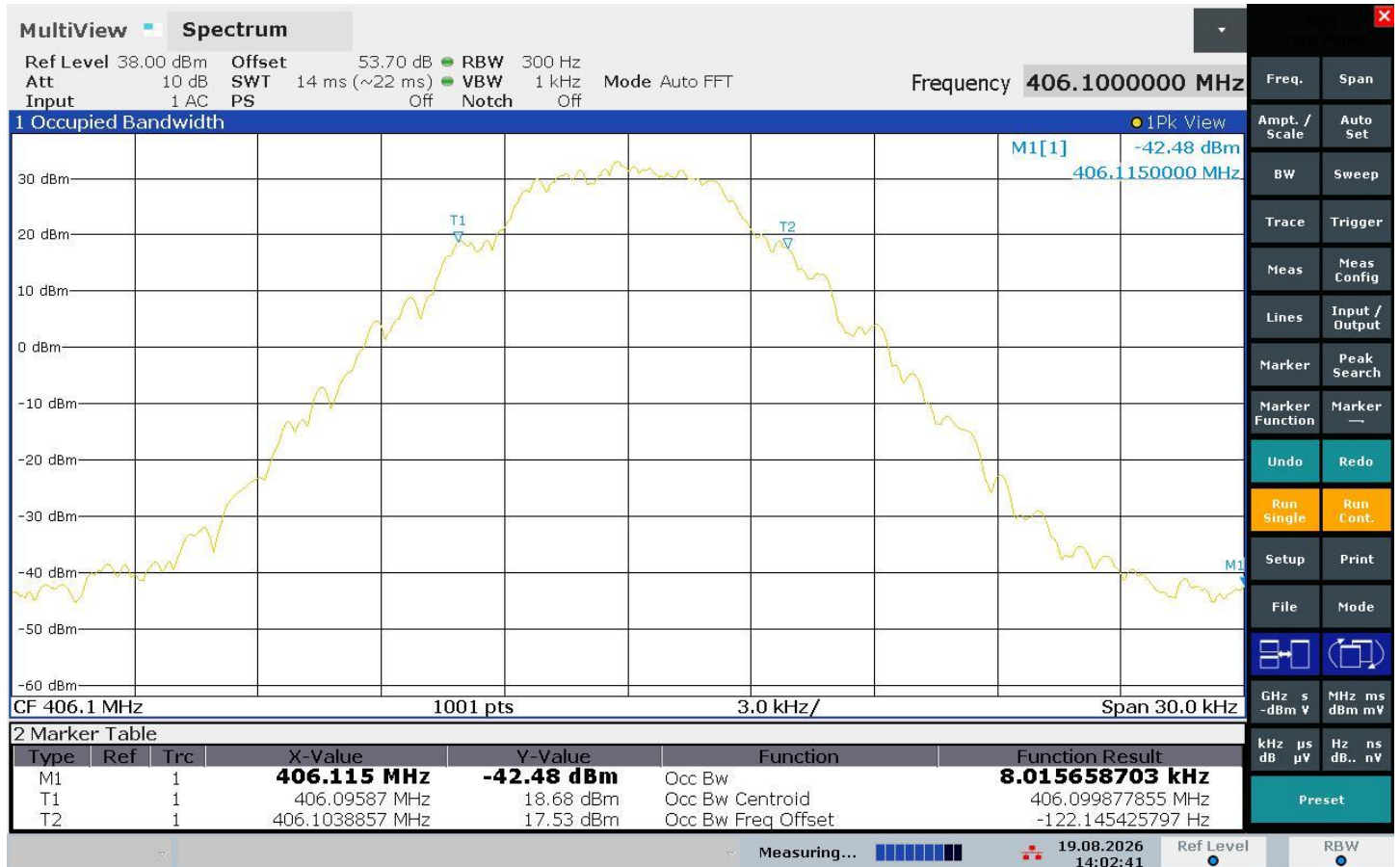
14:32:34 19.08.2026

9.3.5 99% Bandwidth Plot, 25 kHz FM, Analog, 406.1 MHz



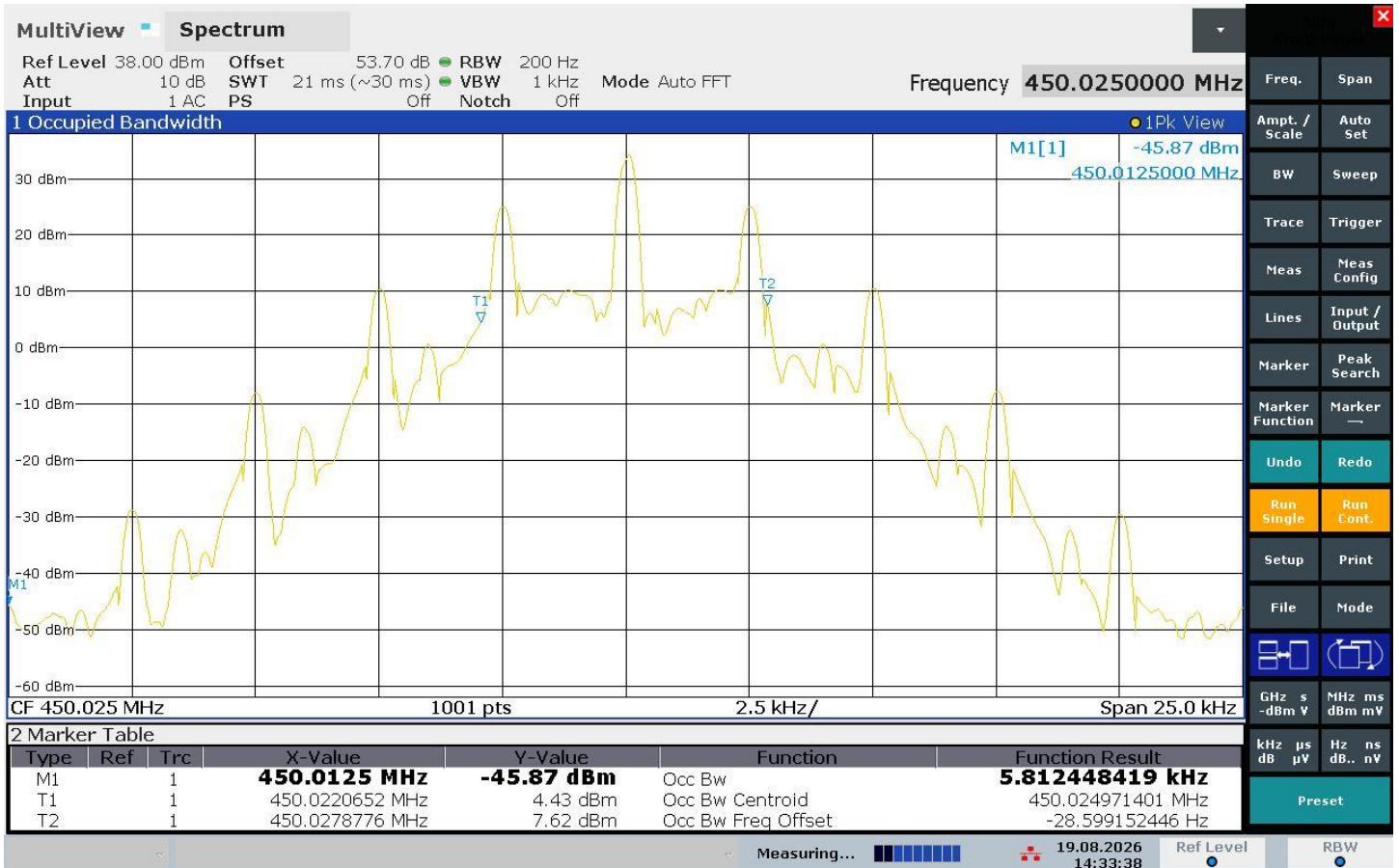
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9.3.6 99% Bandwidth Plot, 12.5 kHz FM, Digital, 406.1 MHz



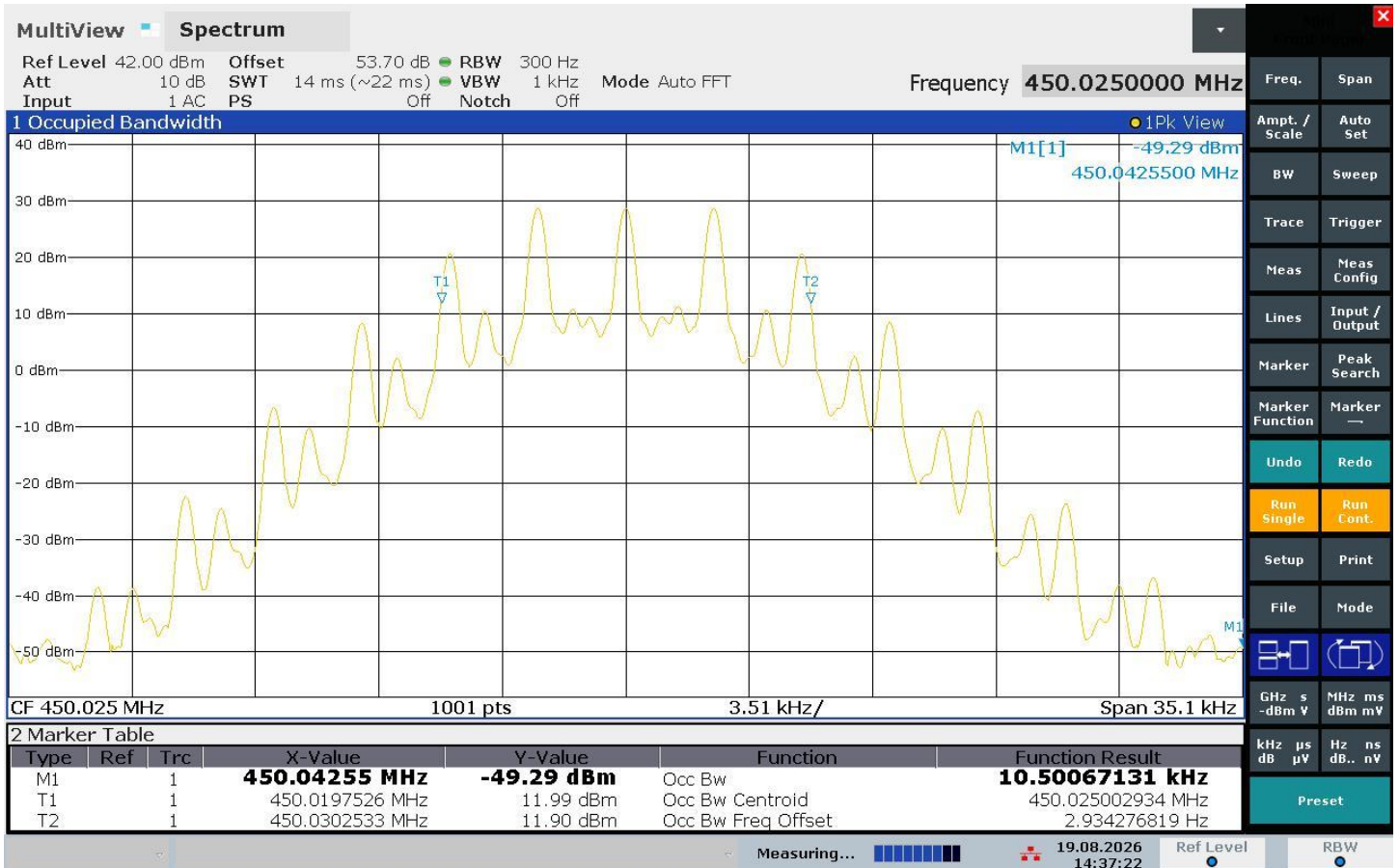
14:02:42 19.08.2026

9.3.7 99% Bandwidth Plot, 12.5 kHz FM, Analog, 450.025 MHz



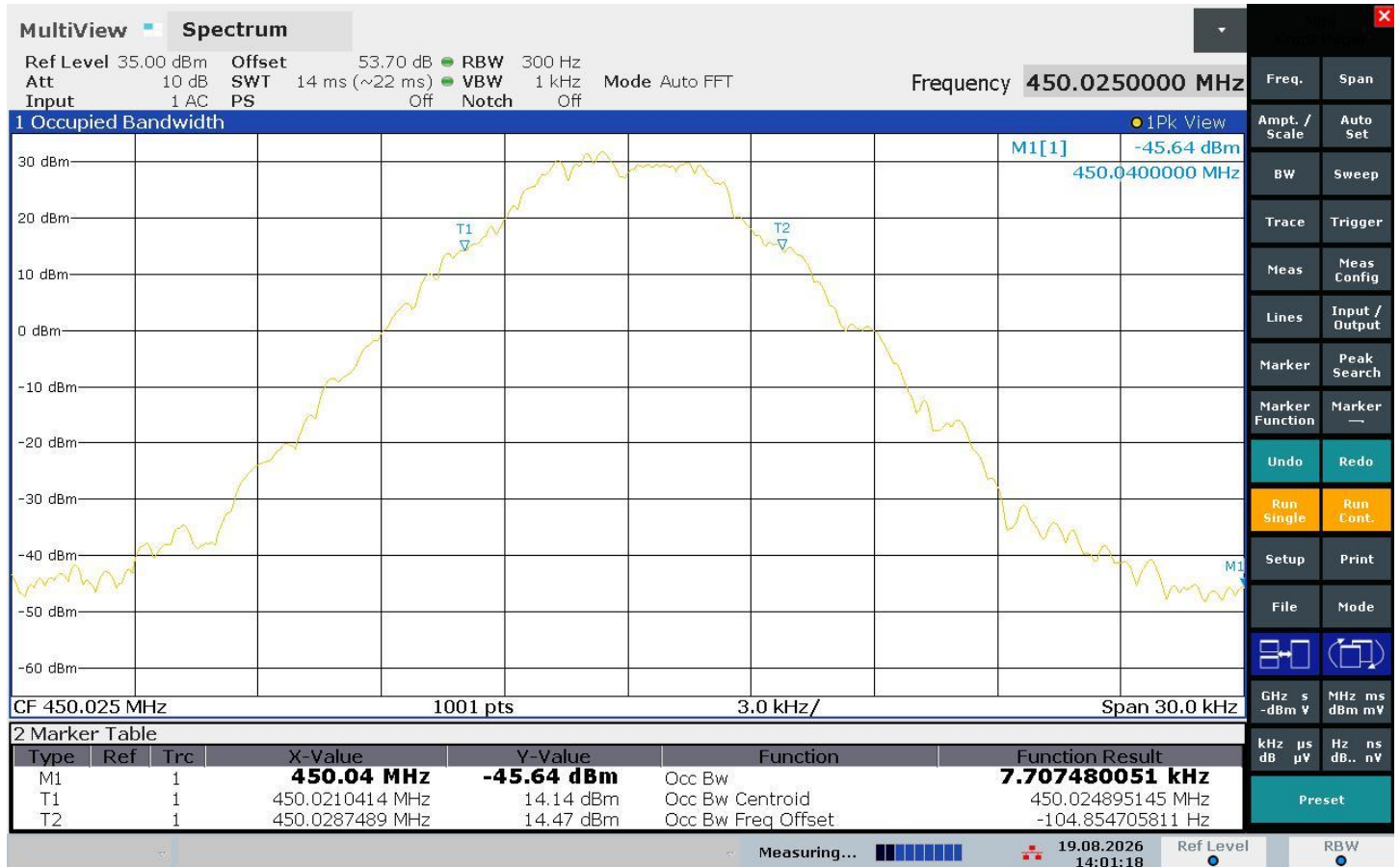
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9.3.8 99% Bandwidth Plot, 25 kHz FM, Analog, 450.025 MHz



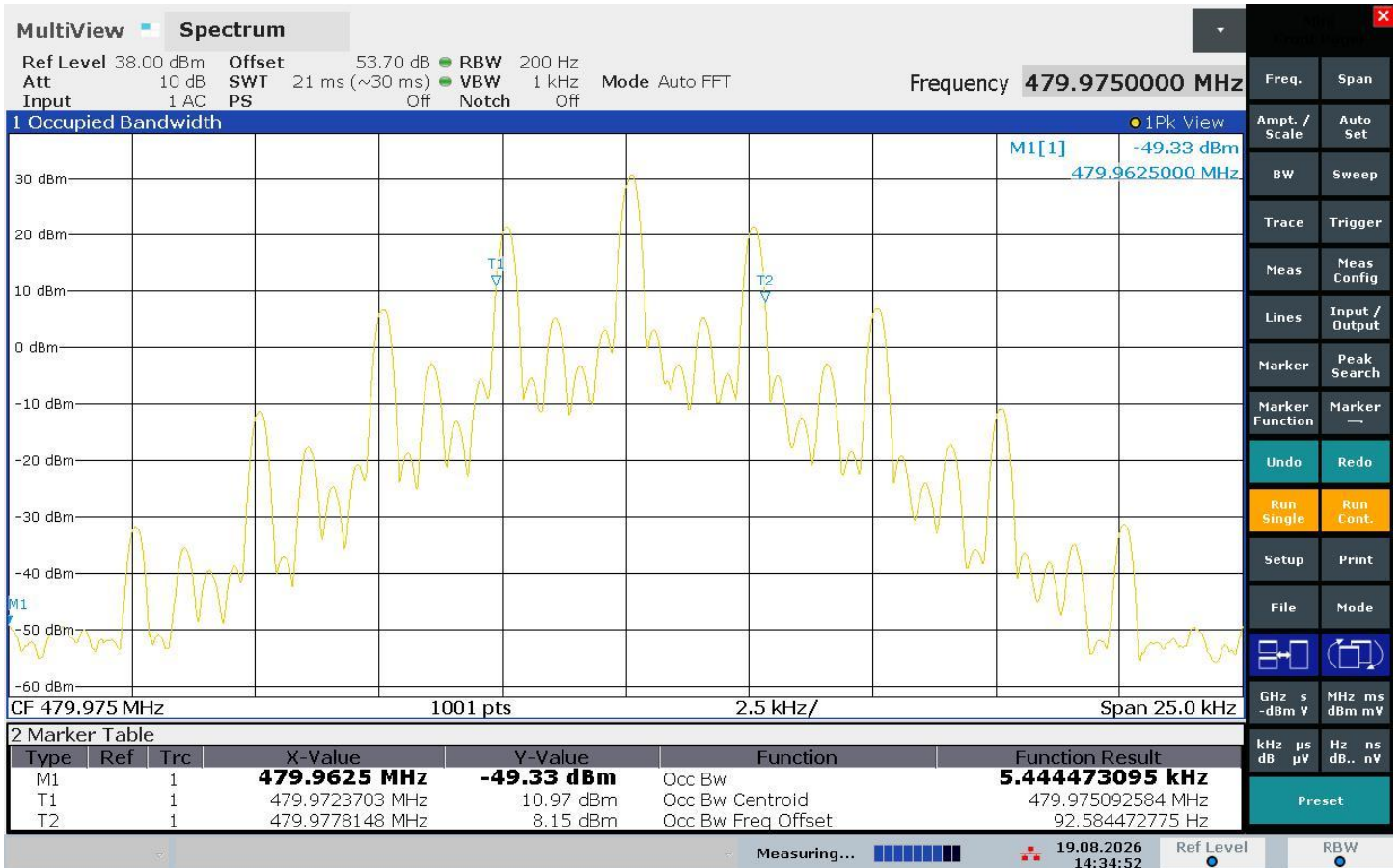
14:37:22 19.08.2026

9.3.9 99% Bandwidth Plot, 12.5 kHz FM, Digital, 450.025 MHz



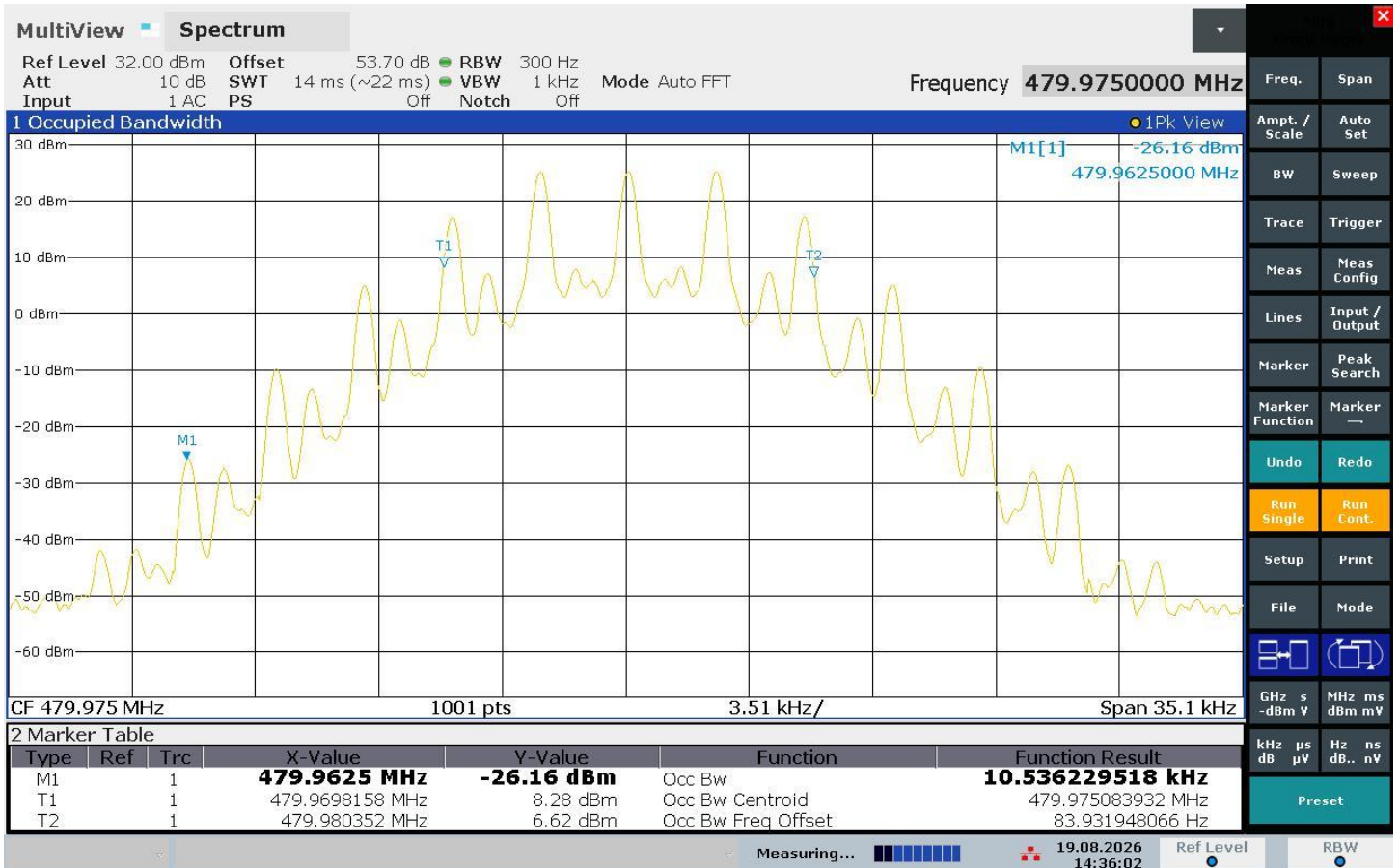
14:01:19 19.08.2026

9.3.10 99% Bandwidth Plot, 12.5 kHz FM, Analog, 479.975 MHz



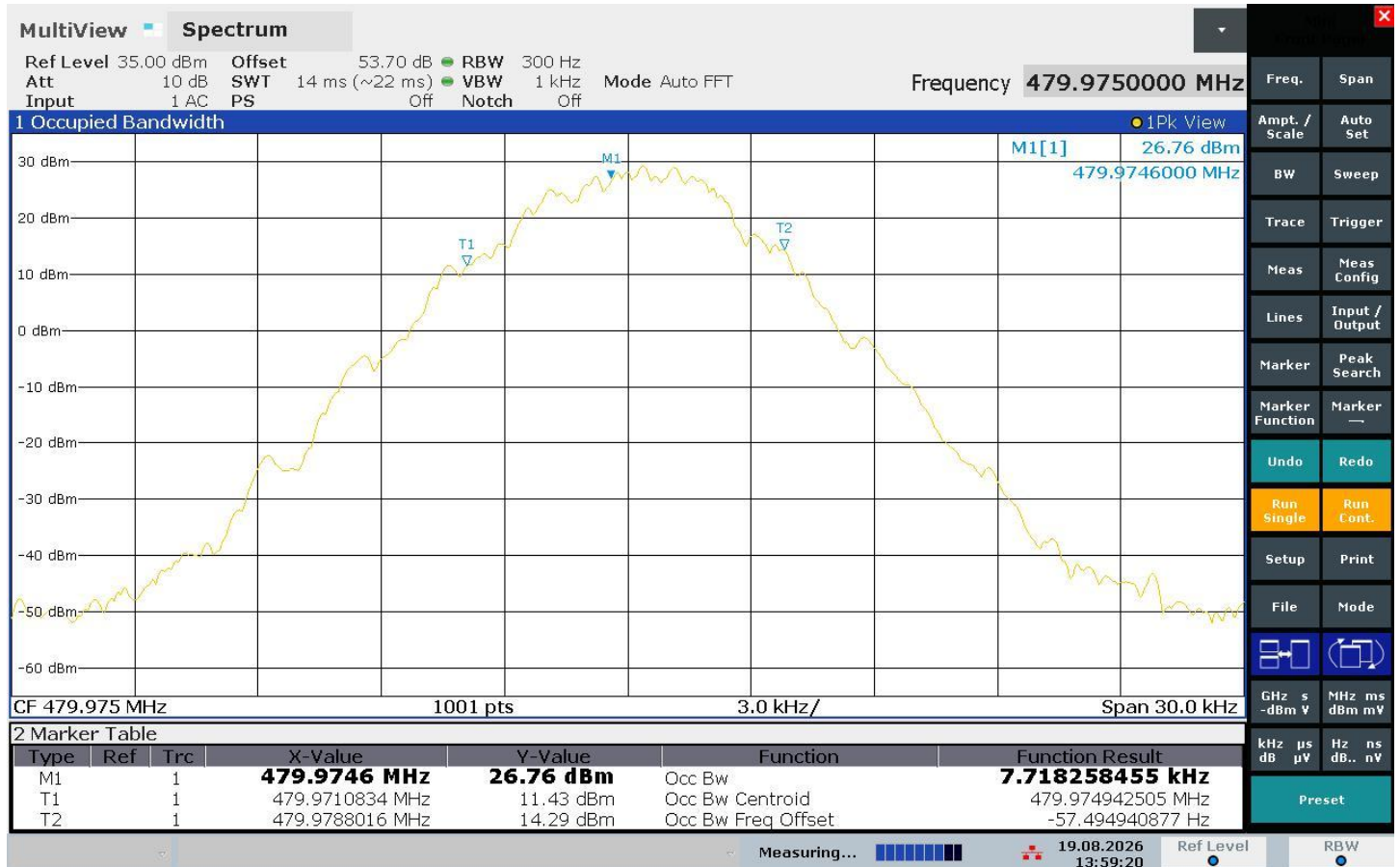
14:34:52 19.08.2026

9.3.11 99% Bandwidth Plot, 25 kHz FM, Analog, 479.975 MHz



14:36:02 19.08.2026

9.3.12 99% Bandwidth Plot, 12.5 kHz FM, Digital, 479.975 MHz

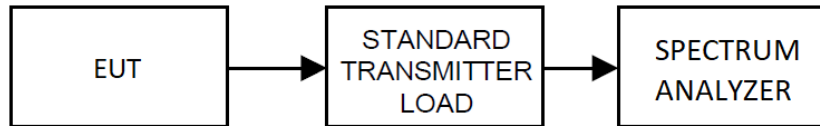


13:59:20 19.08.2026

9.4 Emission Limitations, In-Band

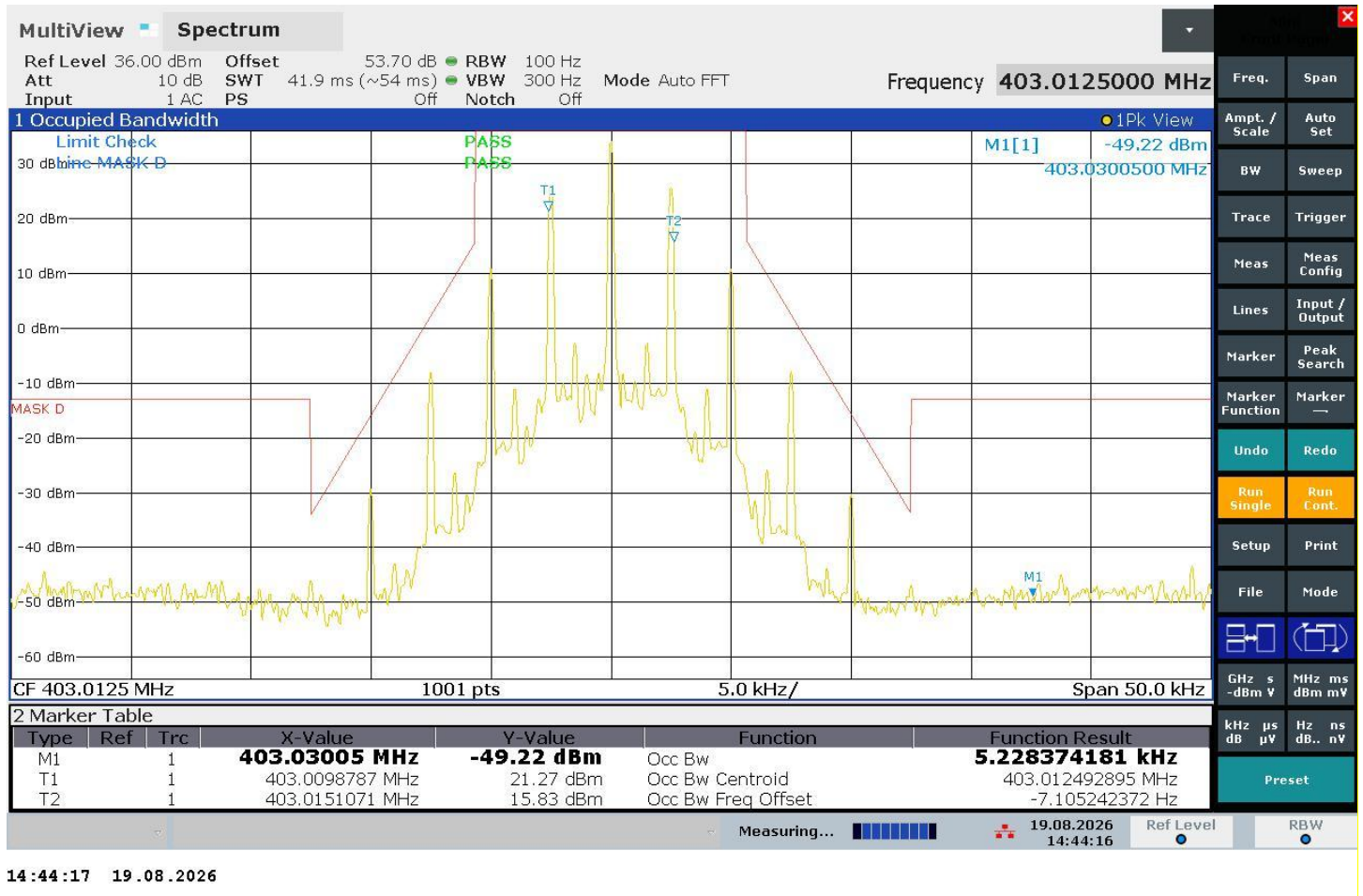
Limits from FCC Part 90.210; and test procedure from ANSI C63.26-2015.

Conducted Test Setup

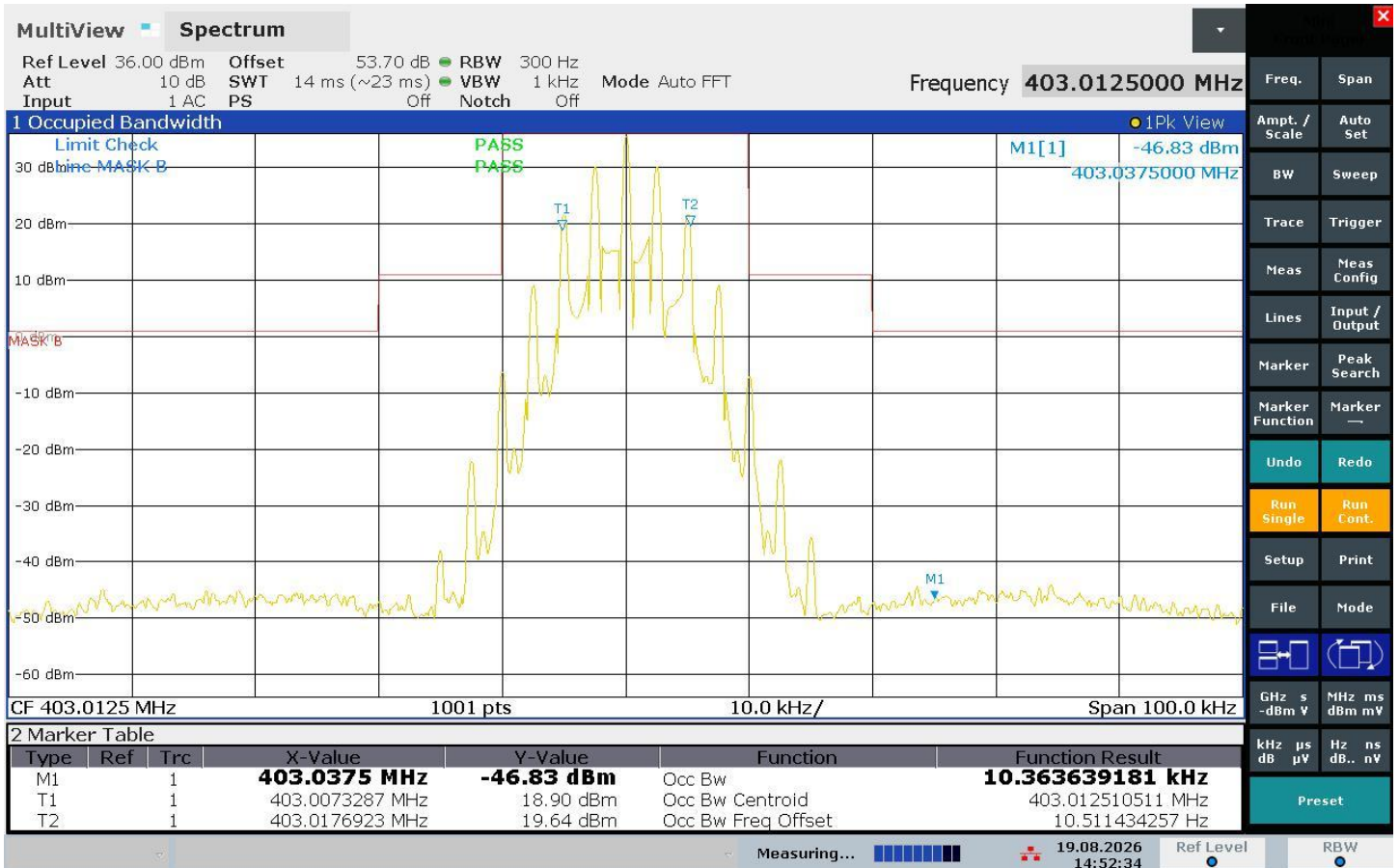


Conducted Emissions Mask, Spectrum Plots

9.4.1 Emission Mask, 12.5 kHz FM, Analog, 403.0125 MHz

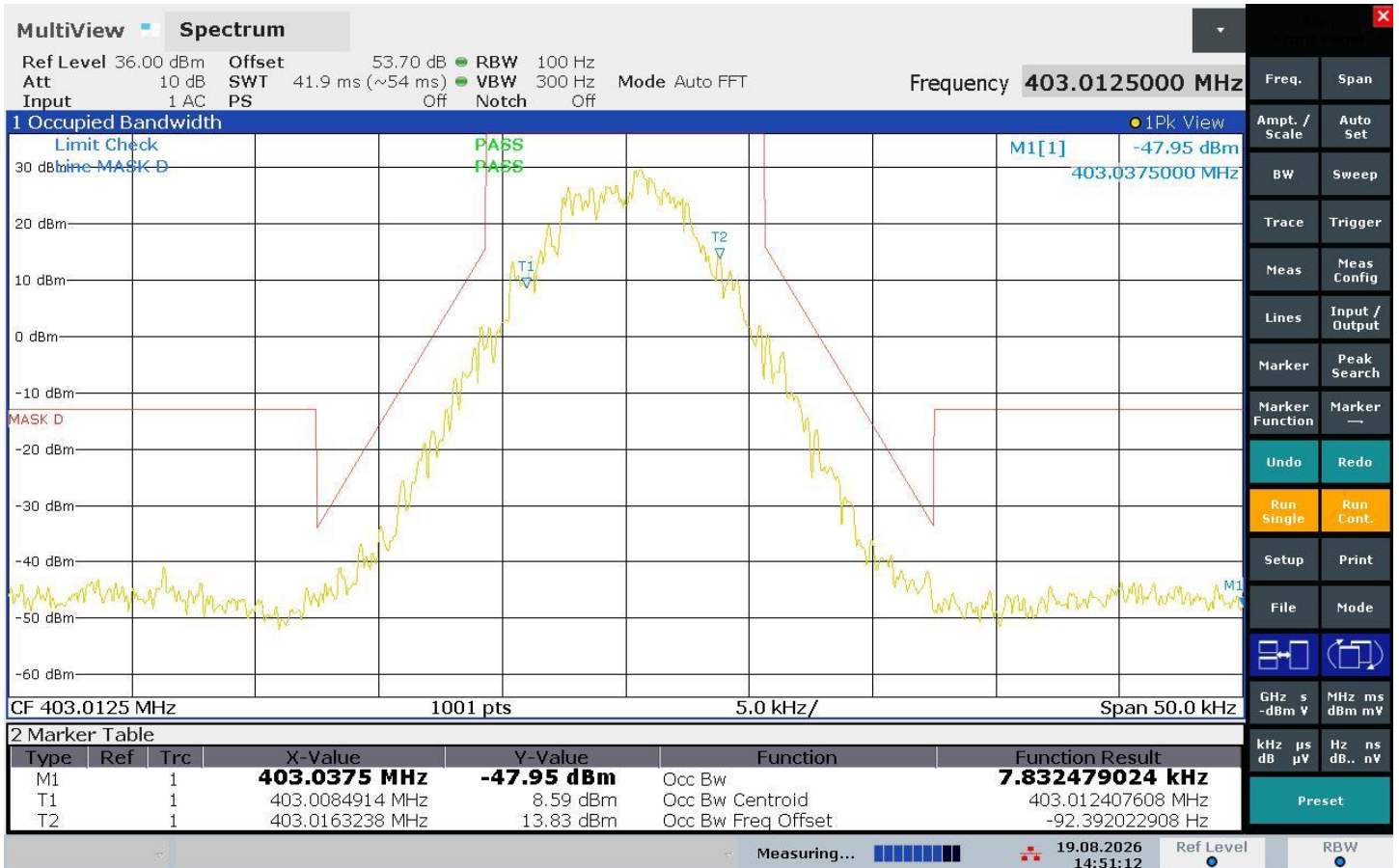


9.4.2 Emission Mask, 25 kHz FM, Analog, 403.0125 MHz



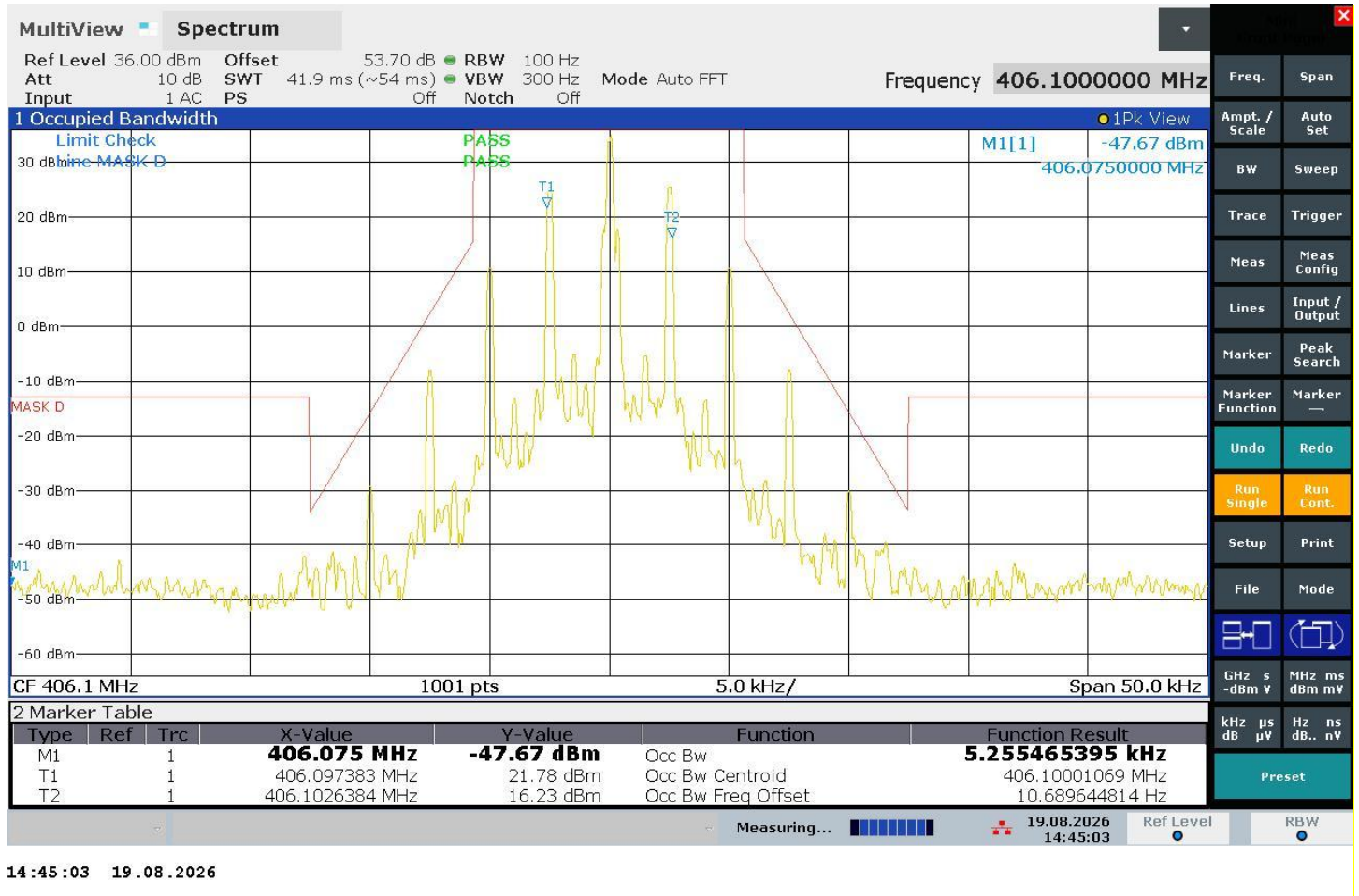
14:52:35 19.08.2026

9.4.3 Emission Mask, 12.5 kHz FM, Digital, 403.0125 MHz

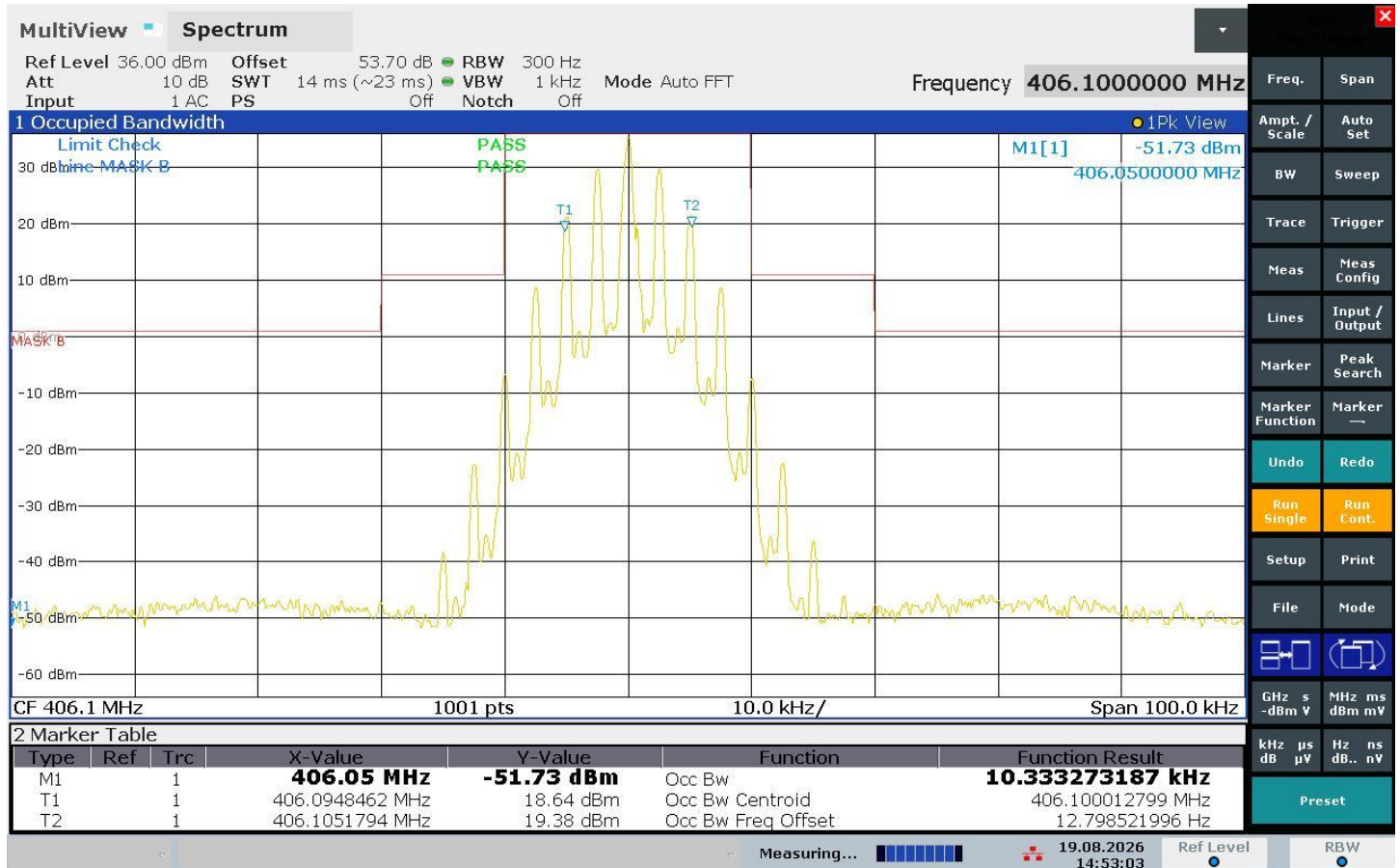


14:51:12 19.08.2026

9.4.4 Emission Mask, 12.5 kHz FM, Analog, 406.1 MHz

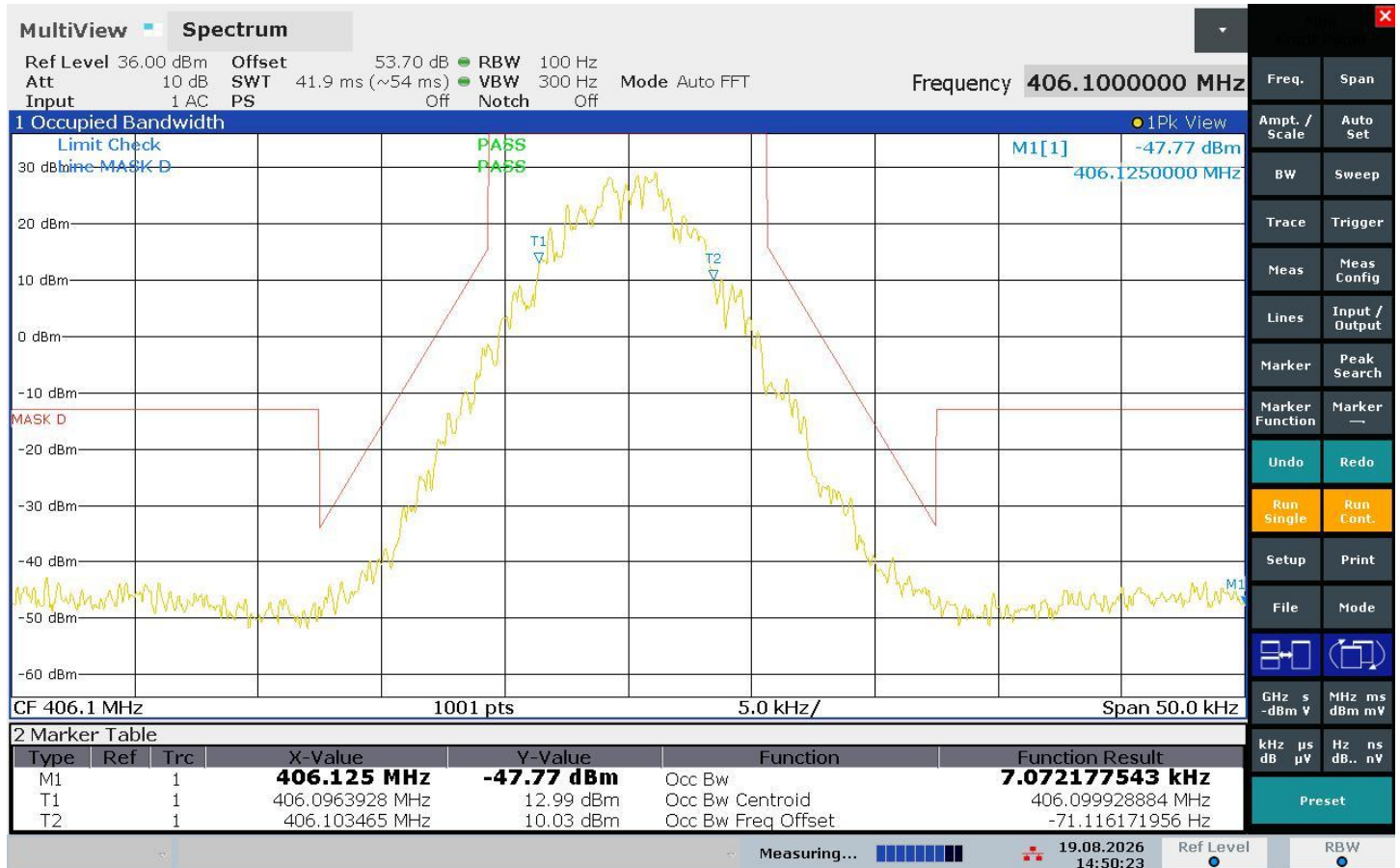


9.4.5 Emission Mask, 25 kHz FM, Analog, 406.1 MHz



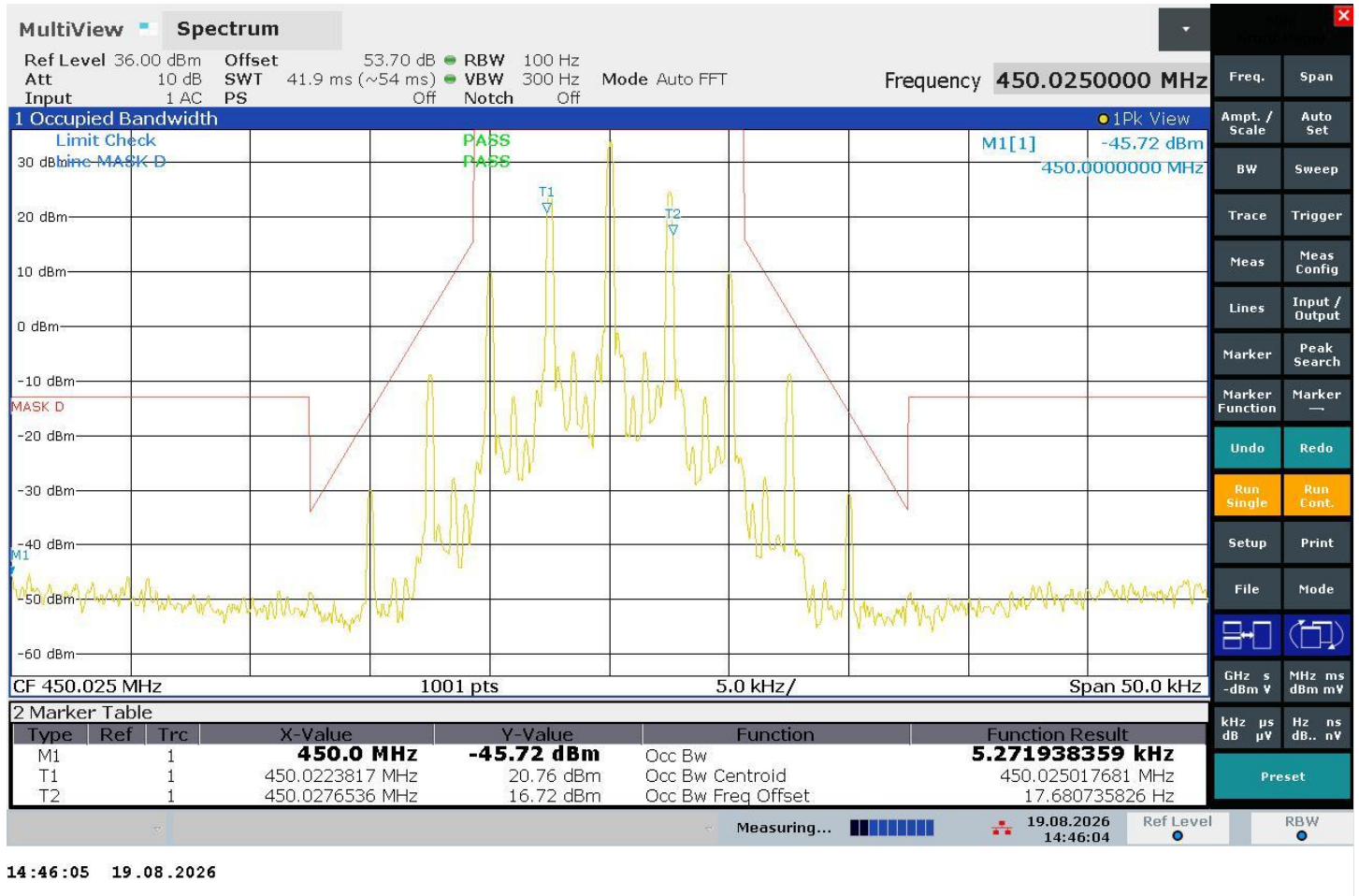
14:53:03 19.08.2026

9.4.6 Emission Mask, 12.5 kHz FM, Digital, 406.1 MHz

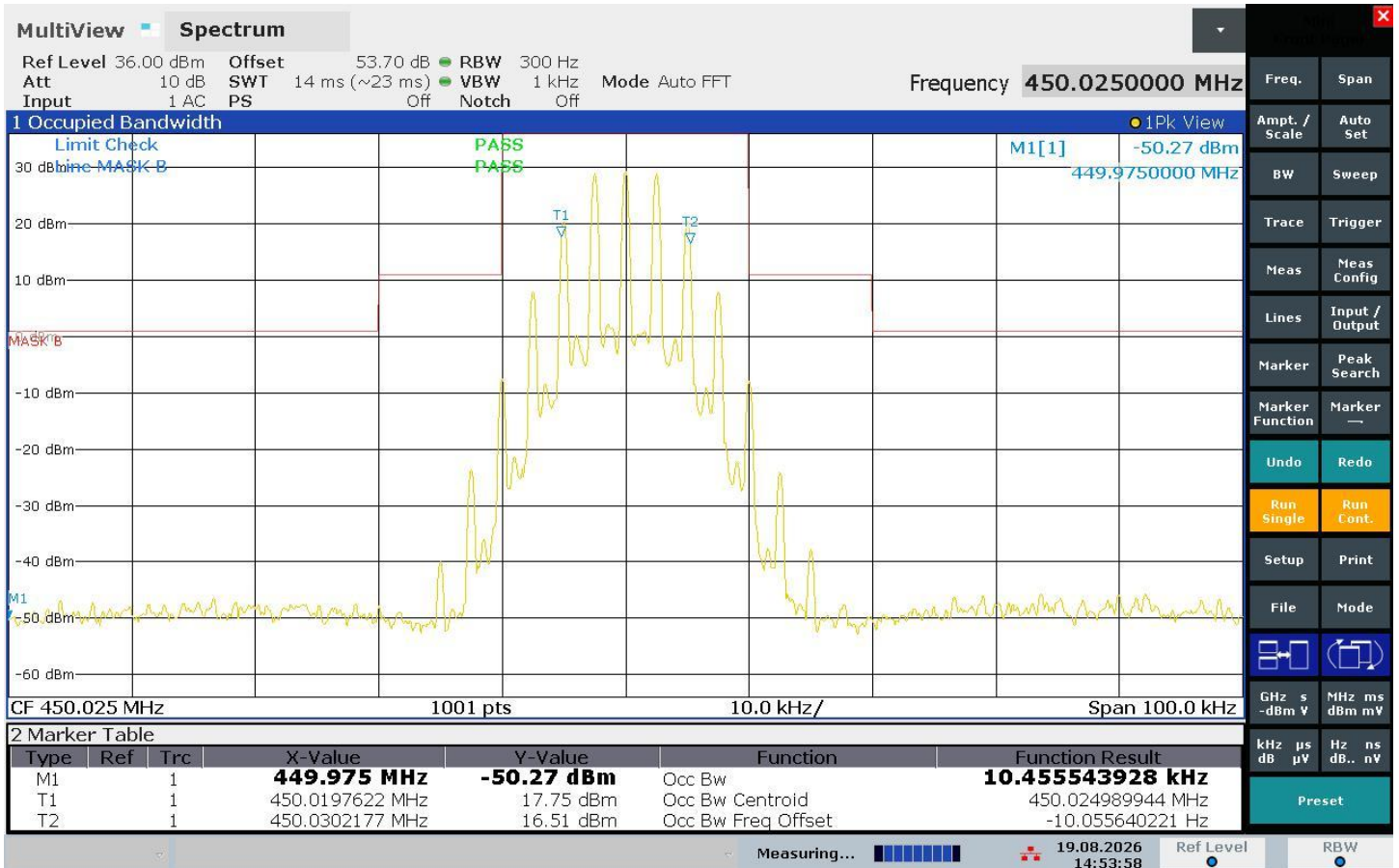


14:50:23 19.08.2026

9.4.7 Emission Mask, 12.5 kHz FM, Analog, 450.025 MHz

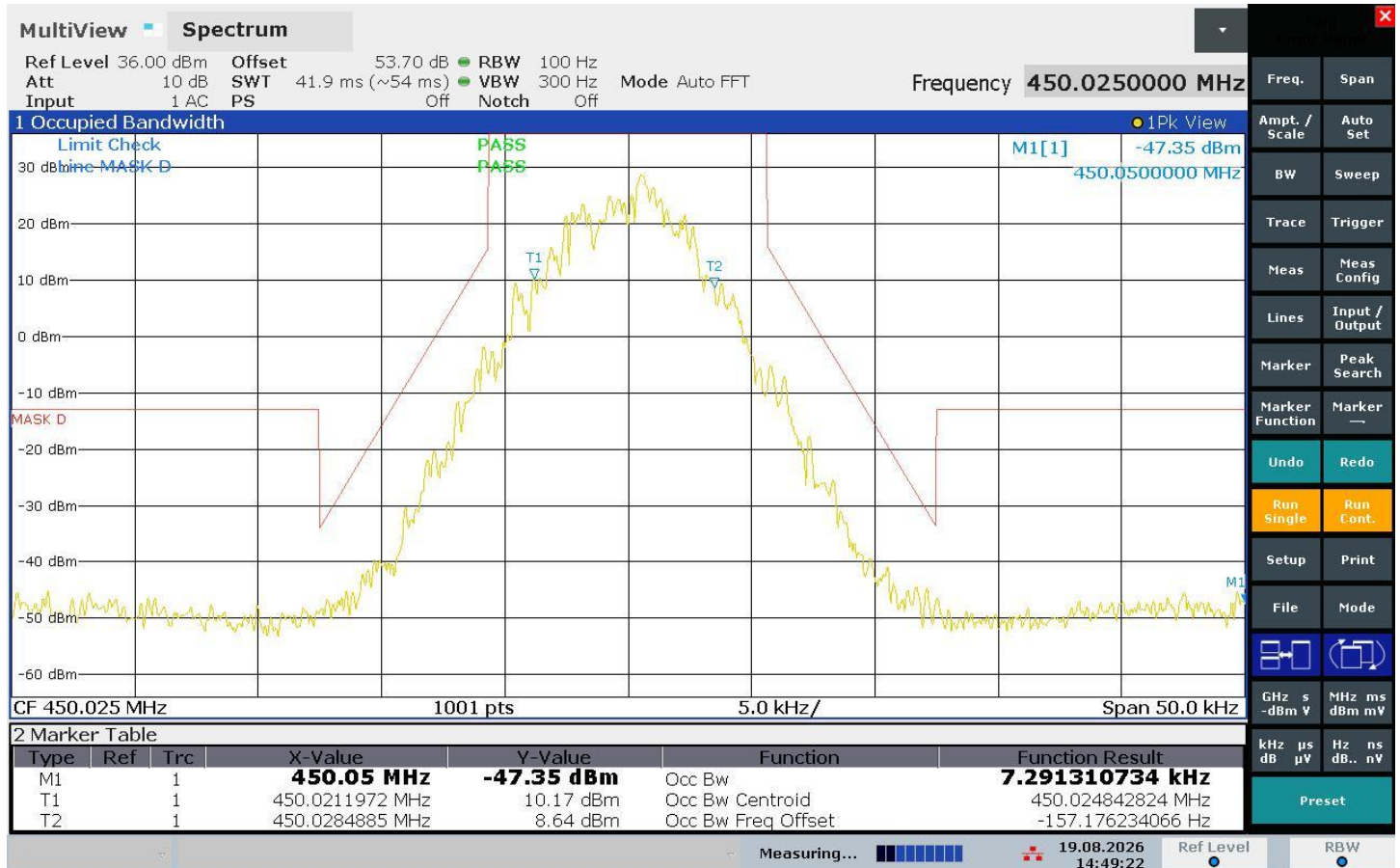


9.4.8 Emission Mask, 25 kHz FM, Analog, 450.025 MHz



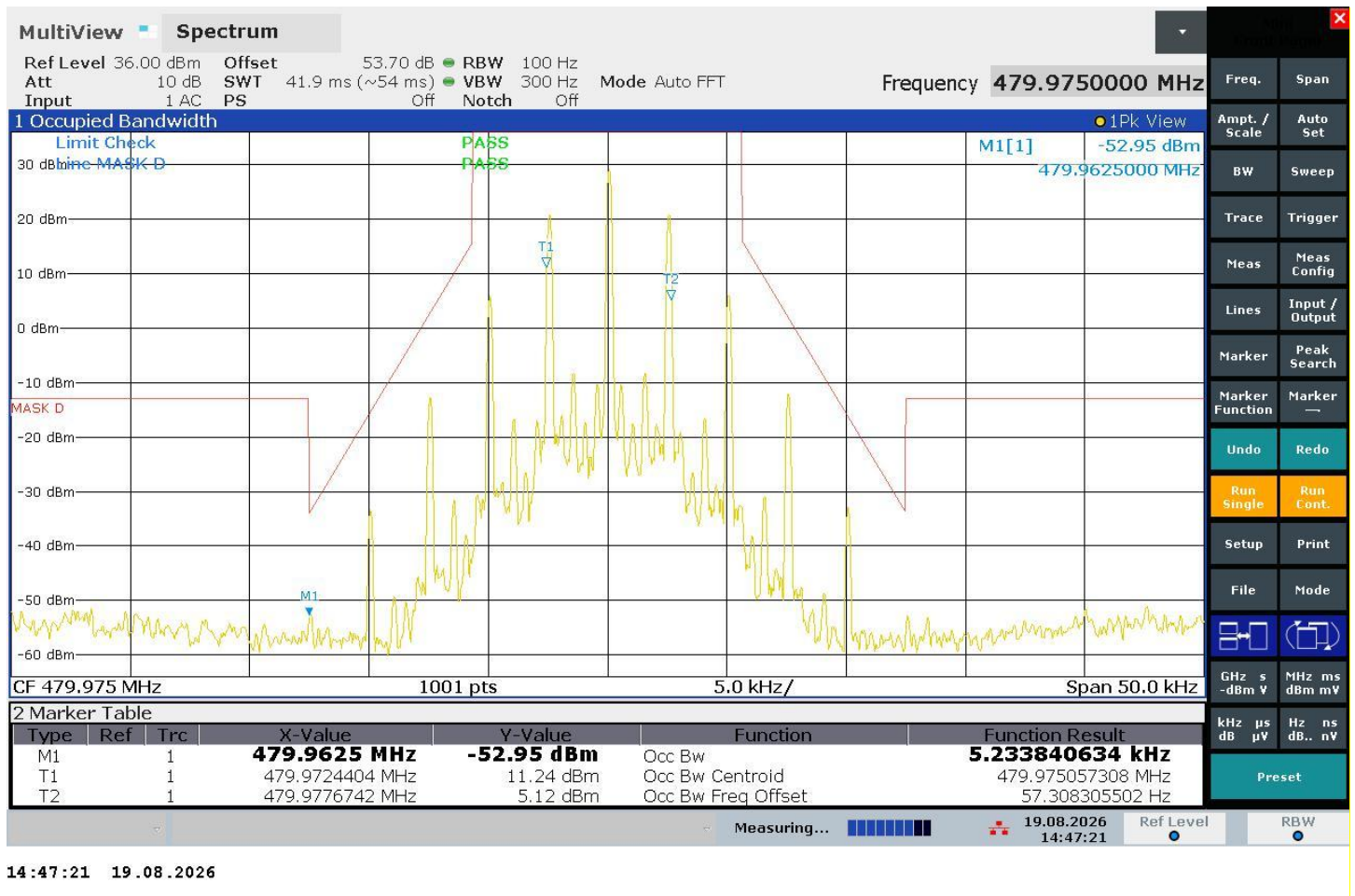
14:53:58 19.08.2026

9.4.9 Emission Mask, 12.5 kHz FM, Digital, 450.025 MHz

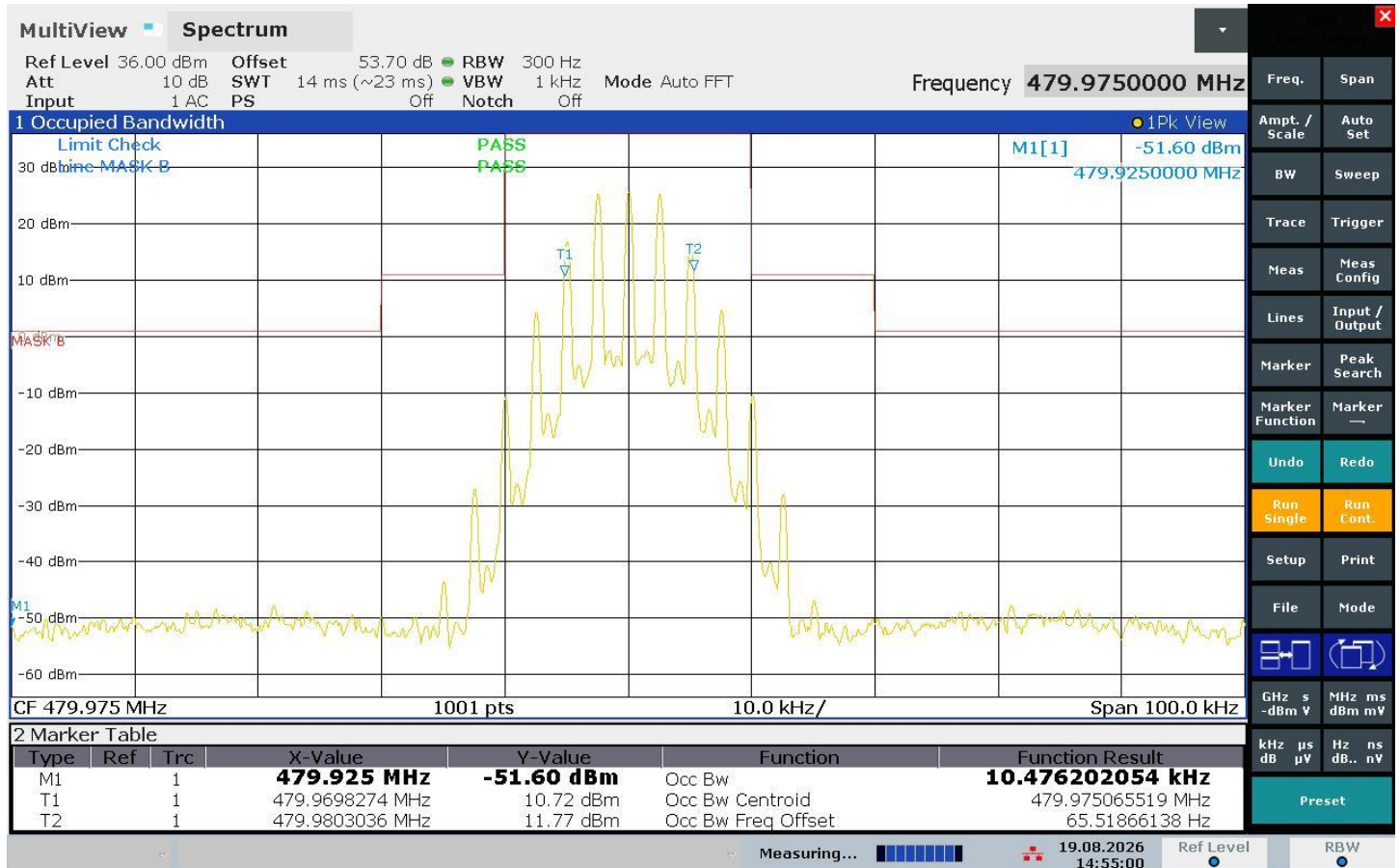


14:49:23 19.08.2026

9.4.10 Emission Mask, 12.5 kHz FM, Analog, 479.975 MHz

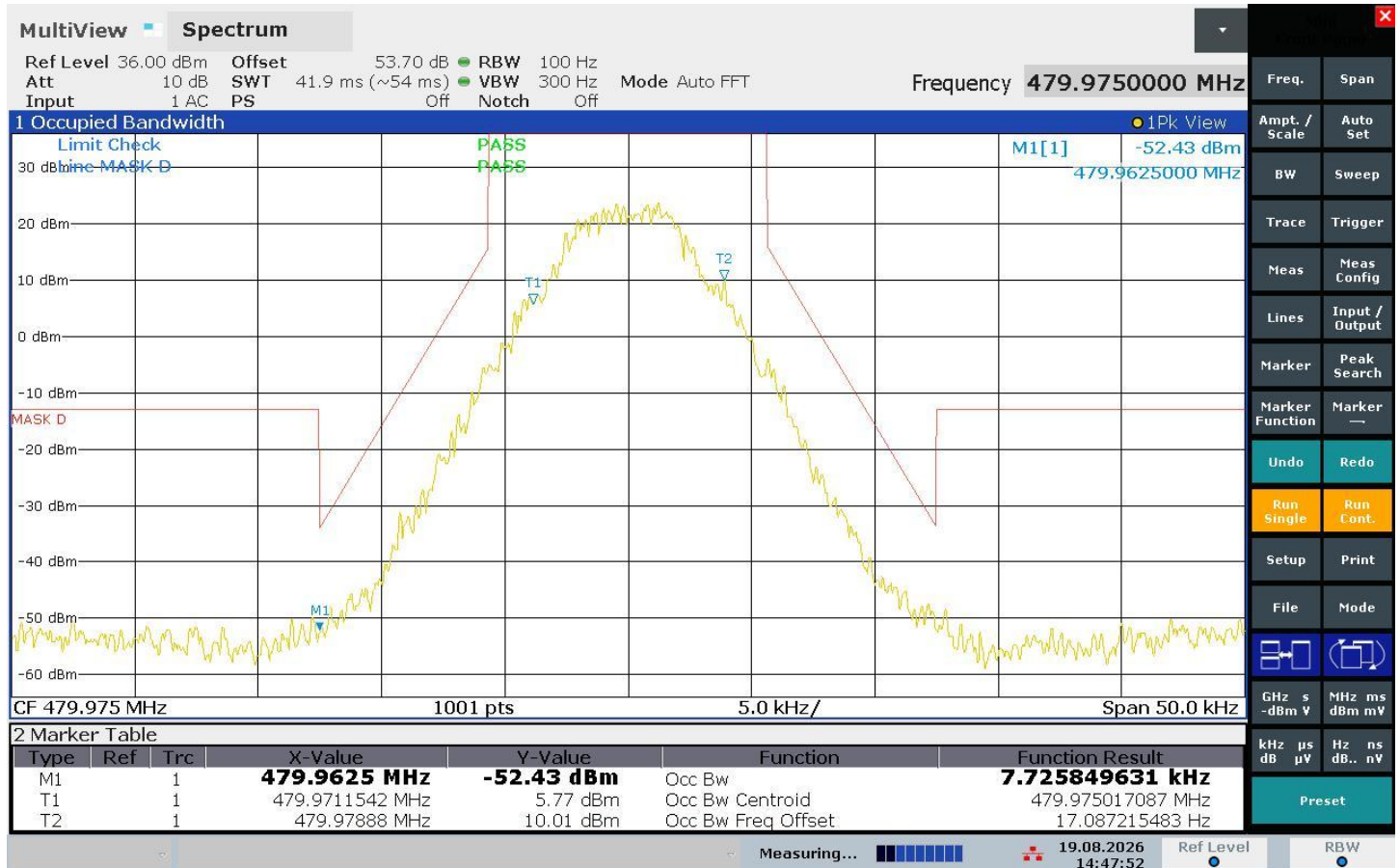


9.4.11 Emission Mask, 25 kHz FM, Analog, 479.975 MHz



14:55:00 19.08.2026

9.4.12 Emission Mask, 12.5 kHz FM, Digital, 479.975 MHz

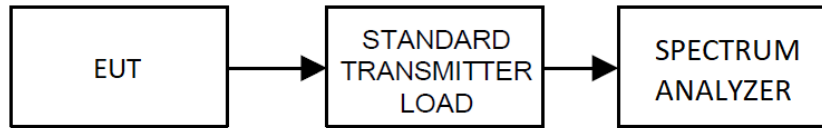


14:47:52 19.08.2026

9.5 Emission Limitations, Out-of-Band

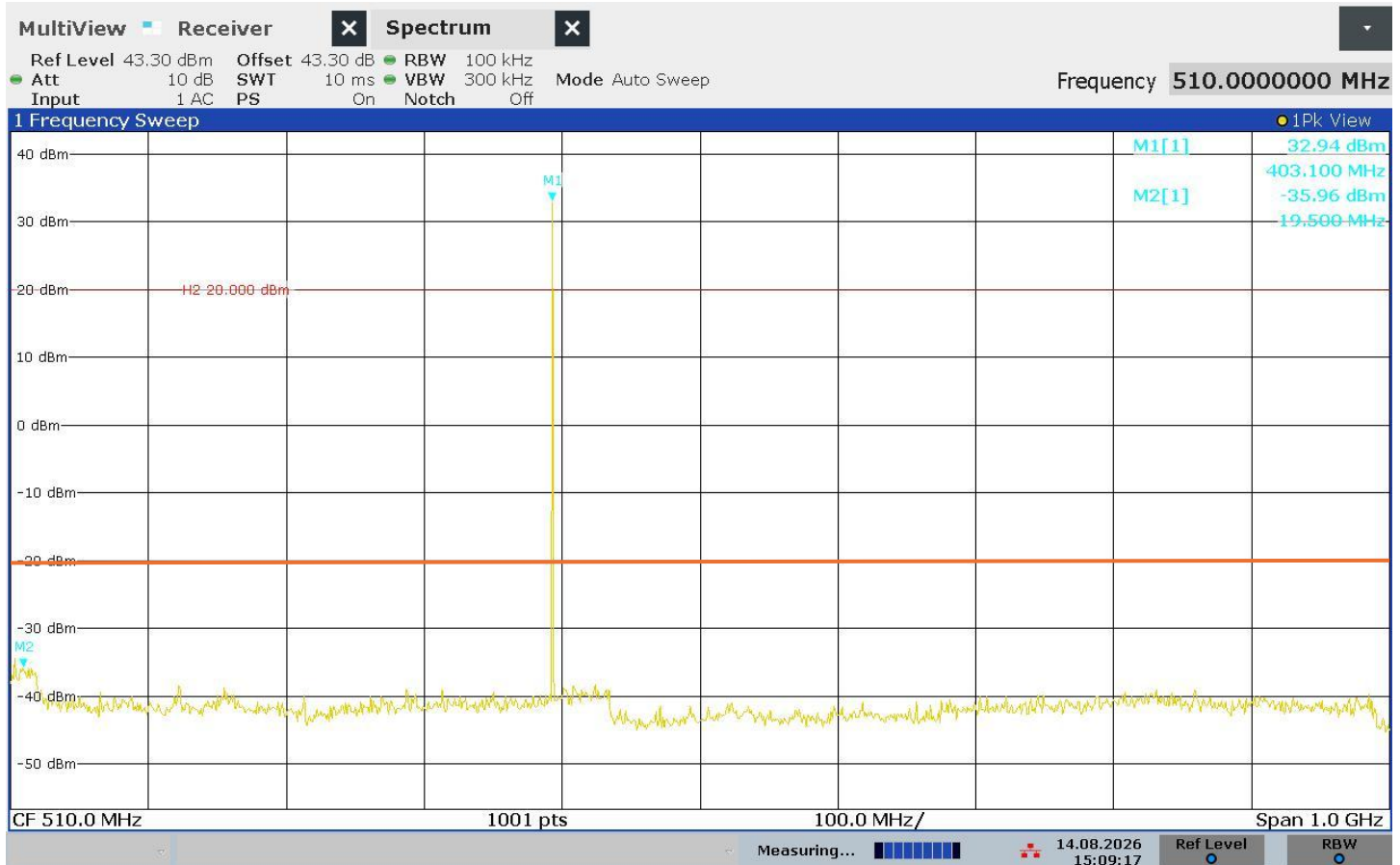
Limits from FCC Parts 2.1051, and 90.210; and test procedure from ANSI C63.26-2015.

Conducted Test Setup



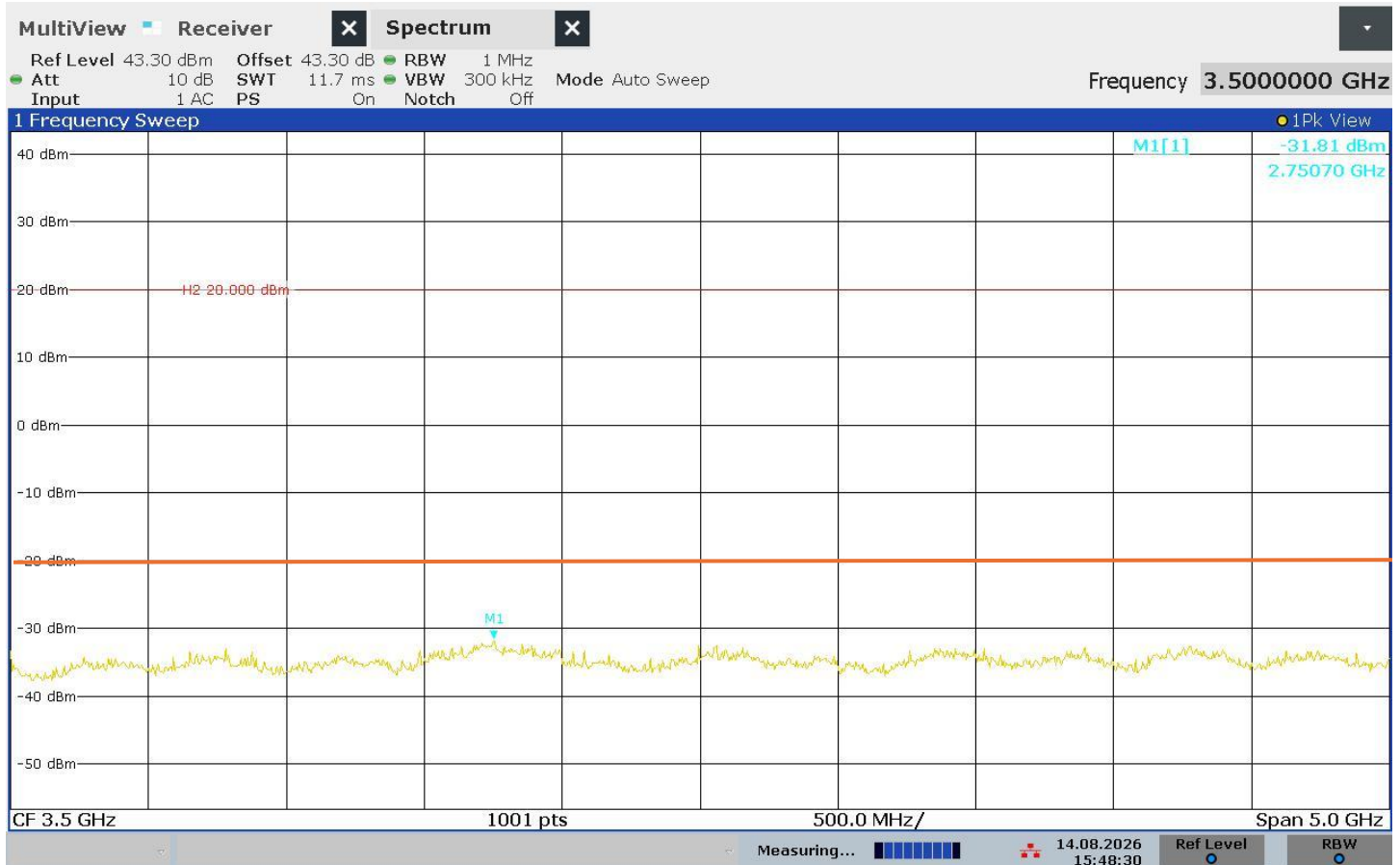
Conducted Emissions Spectrum Plots

9.5.1 Conducted Emissions, 12.5 kHz FM Analog, Below 1GHz, 403.0125 MHz



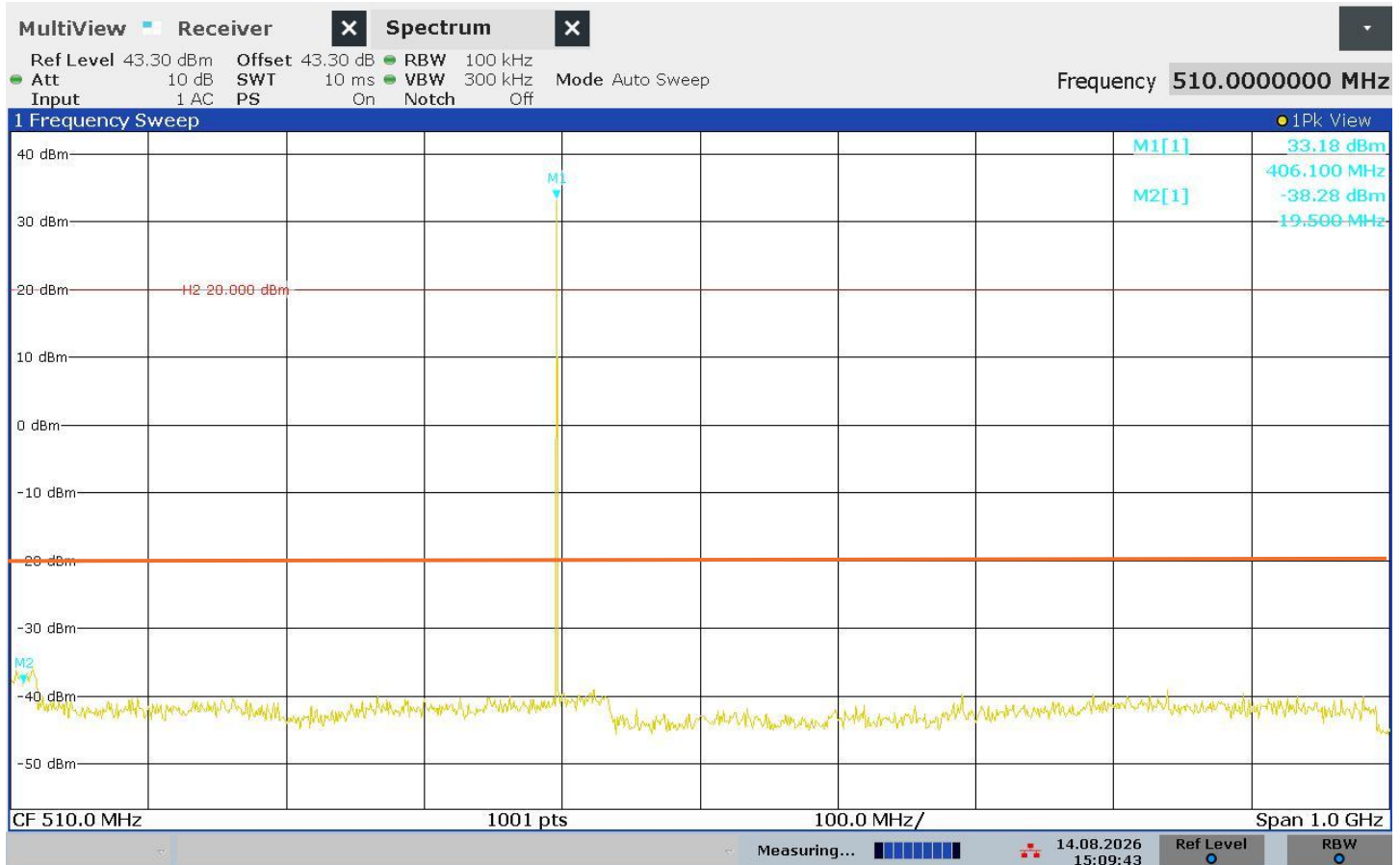
15:09:17 14.08.2026

9.5.2 Conducted Emissions, 12.5 kHz FM Analog, Above 1GHz, 403.0125 MHz



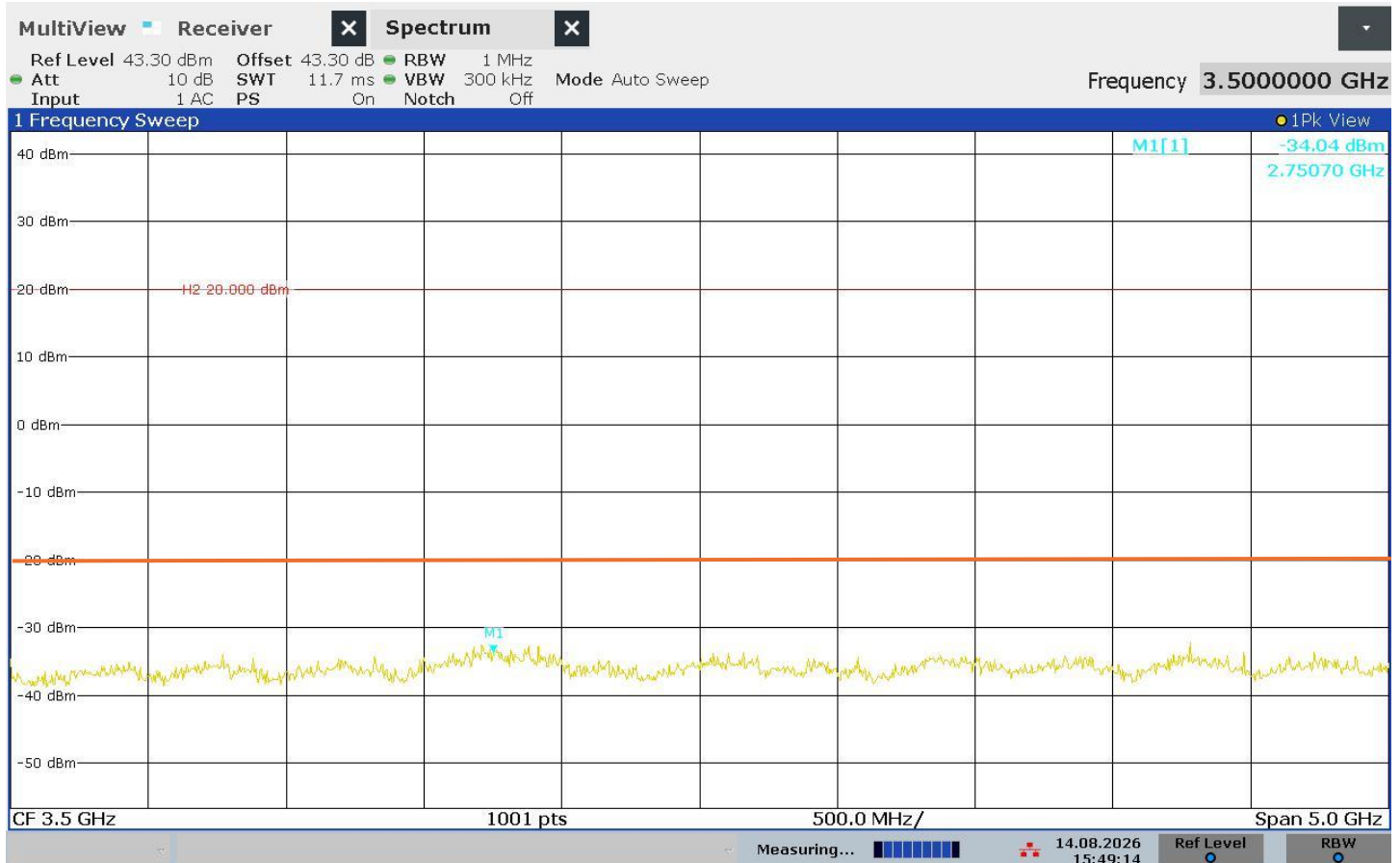
15:48:31 14.08.2026

9.5.3 Conducted Emissions, 12.5 kHz FM Analog, Below 1GHz, 406.1 MHz



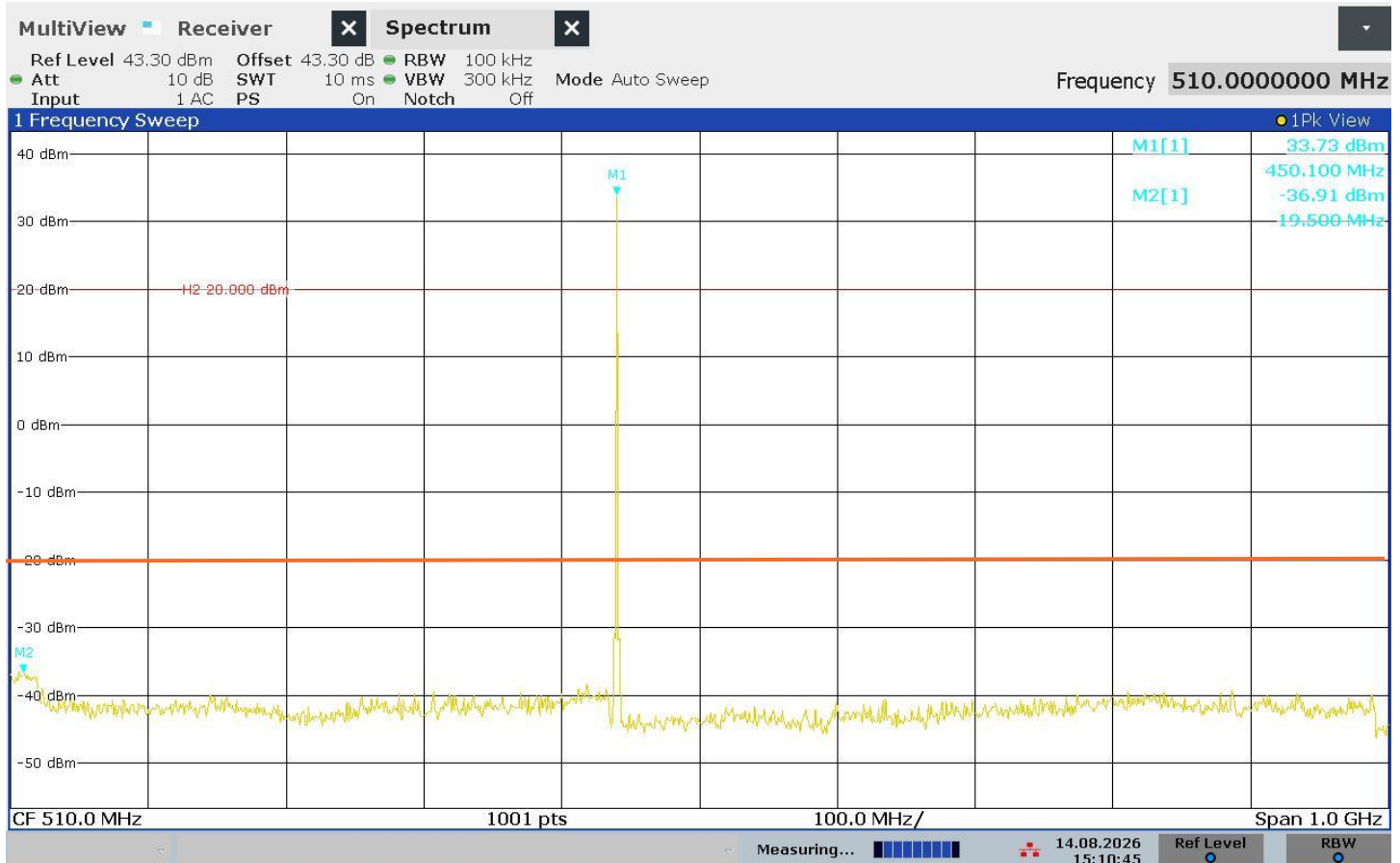
15:09:44 14.08.2026

9.5.4 Conducted Emissions, 12.5 kHz FM Analog, Above 1GHz, 406.1 MHz



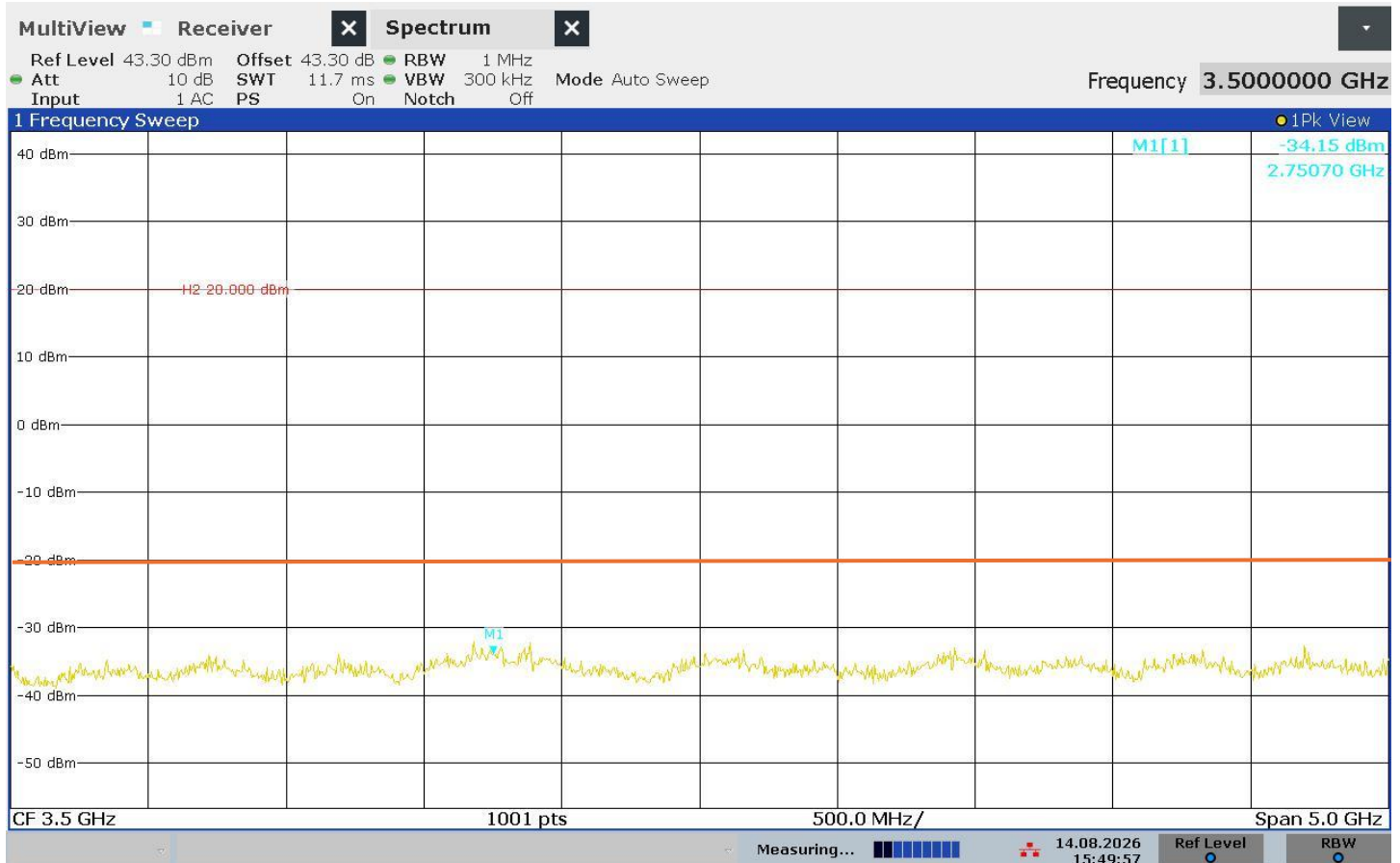
15:49:15 14.08.2026

9.5.5 Conducted Emissions, 12.5 kHz FM Analog, Below 1GHz, 450.025 MHz



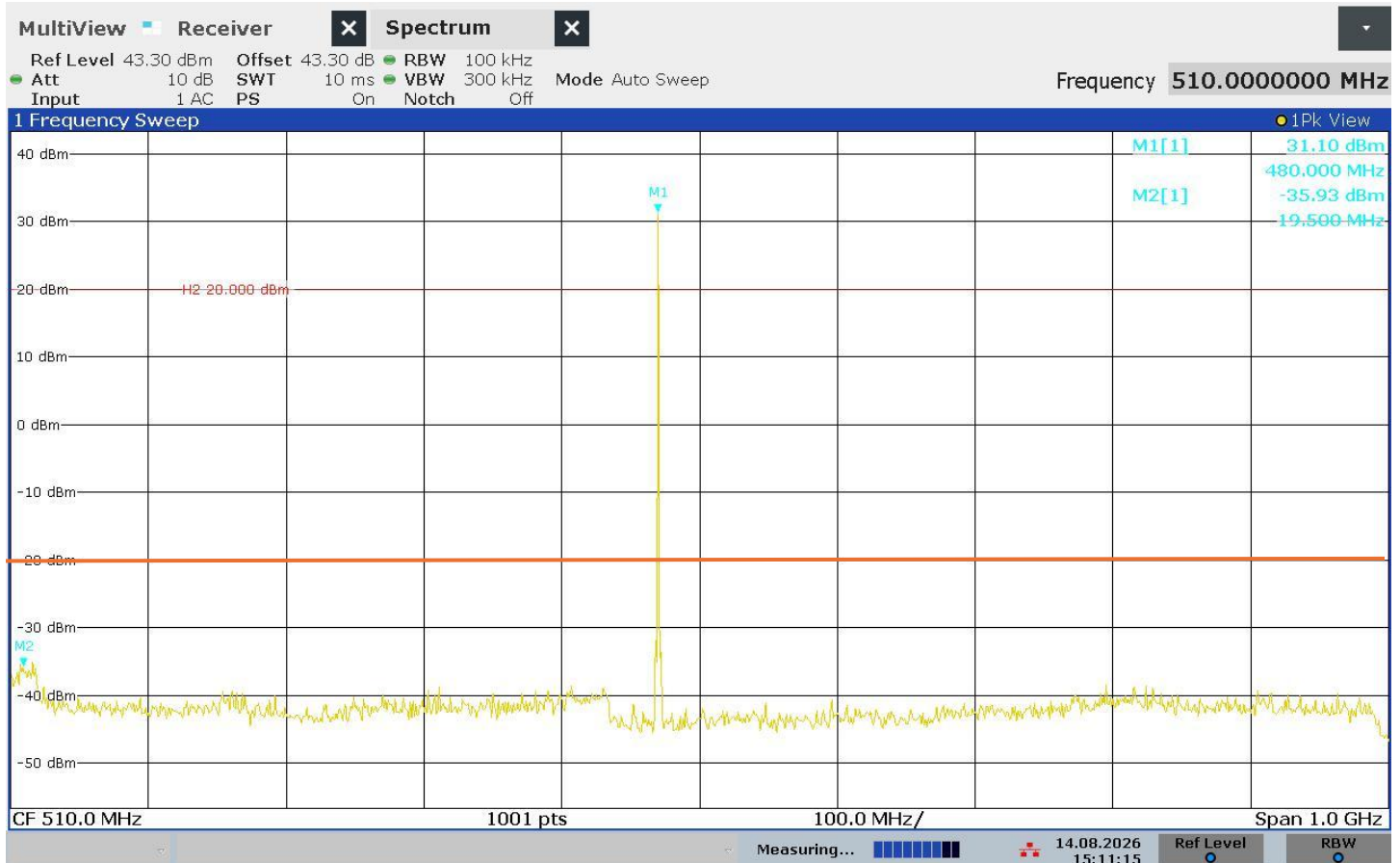
15:10:45 14.08.2026

9.5.6 Conducted Emissions, 12.5 kHz FM Analog, Above 1GHz, 450.025 MHz



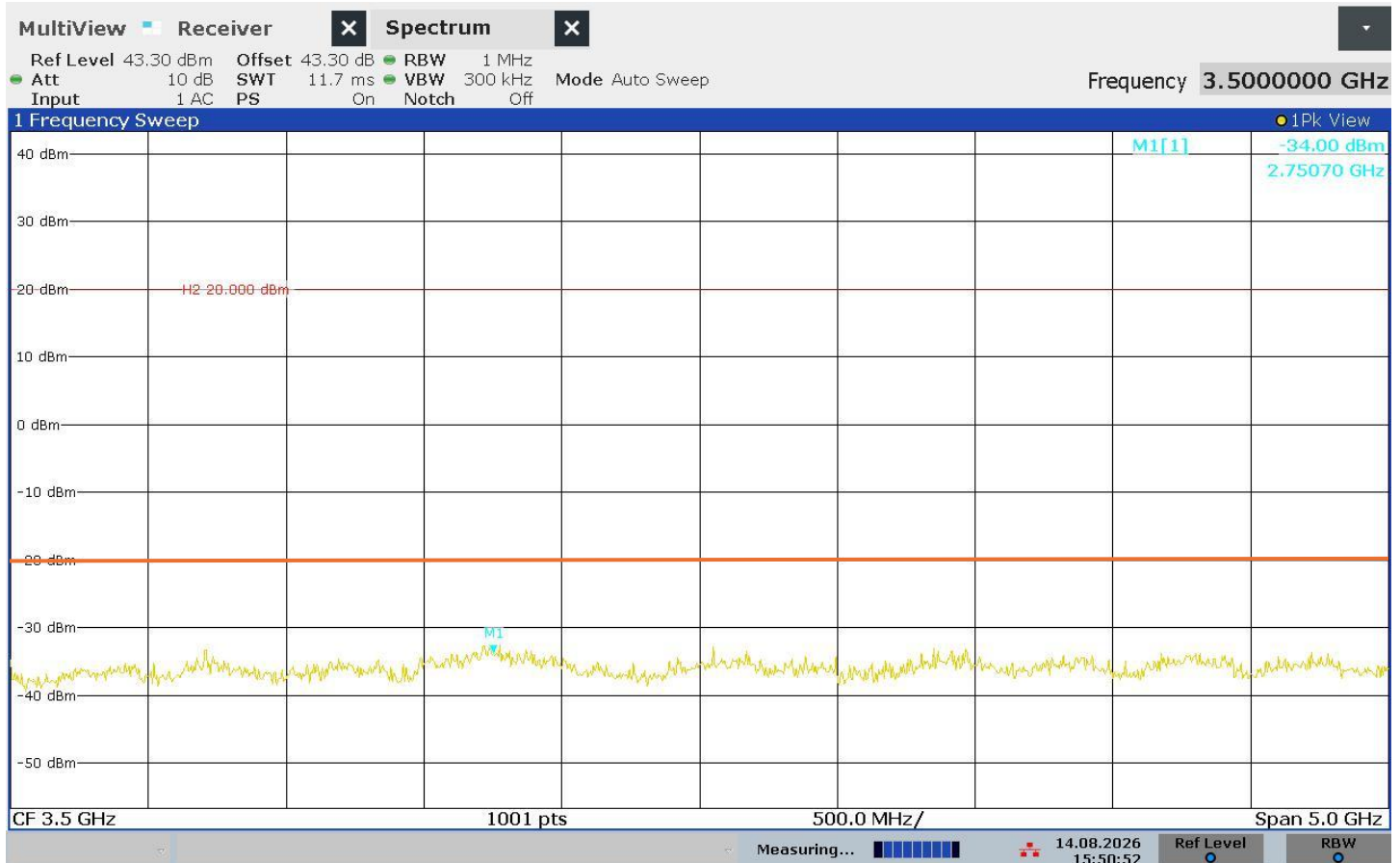
15:49:58 14.08.2026

9.5.7 Conducted Emissions, 12.5 kHz FM Analog, Below 1GHz, 479.975 MHz



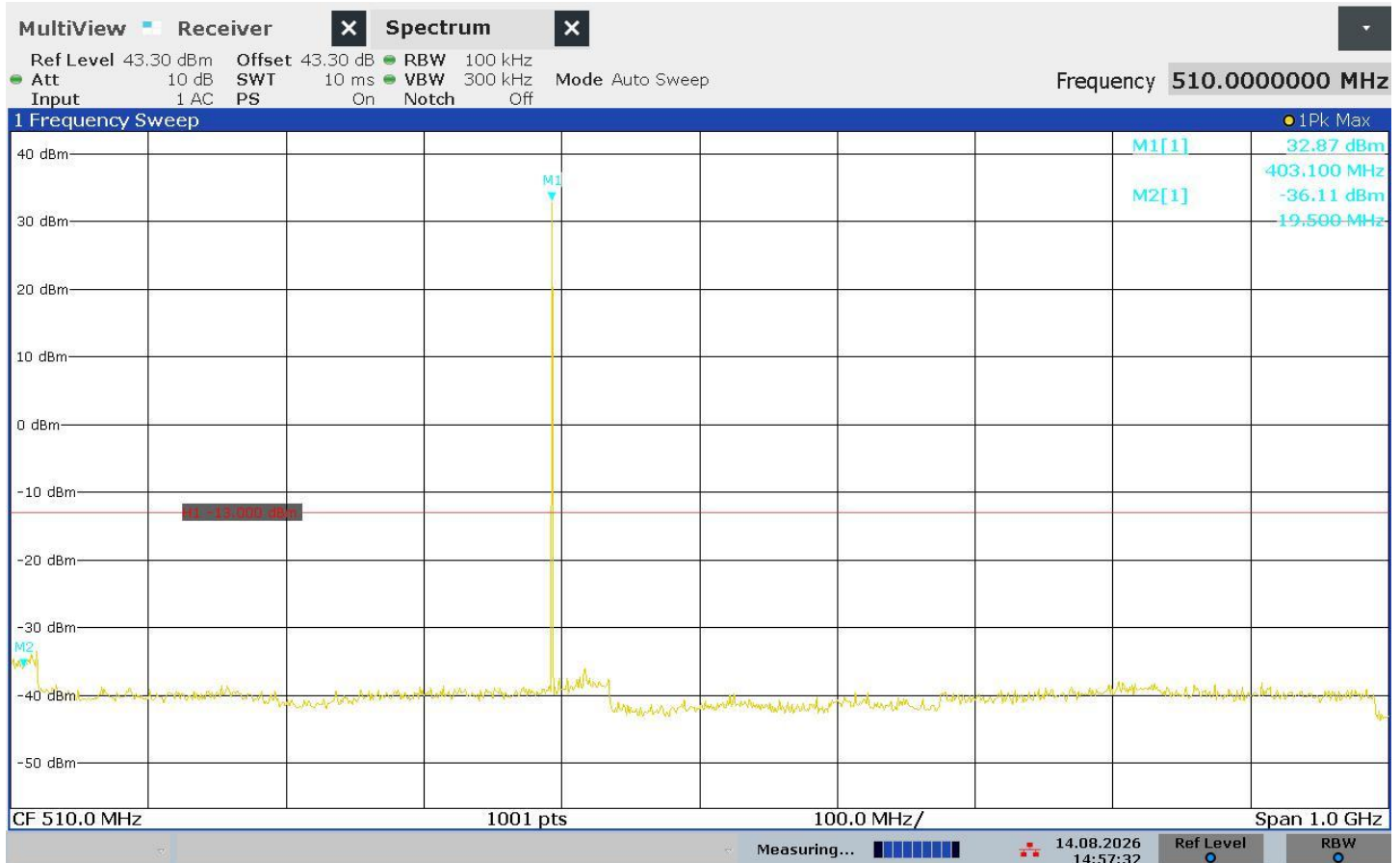
15:11:15 14.08.2026

9.5.8 Conducted Emissions, 12.5 kHz FM Analog, Above 1GHz, 479.975 MHz



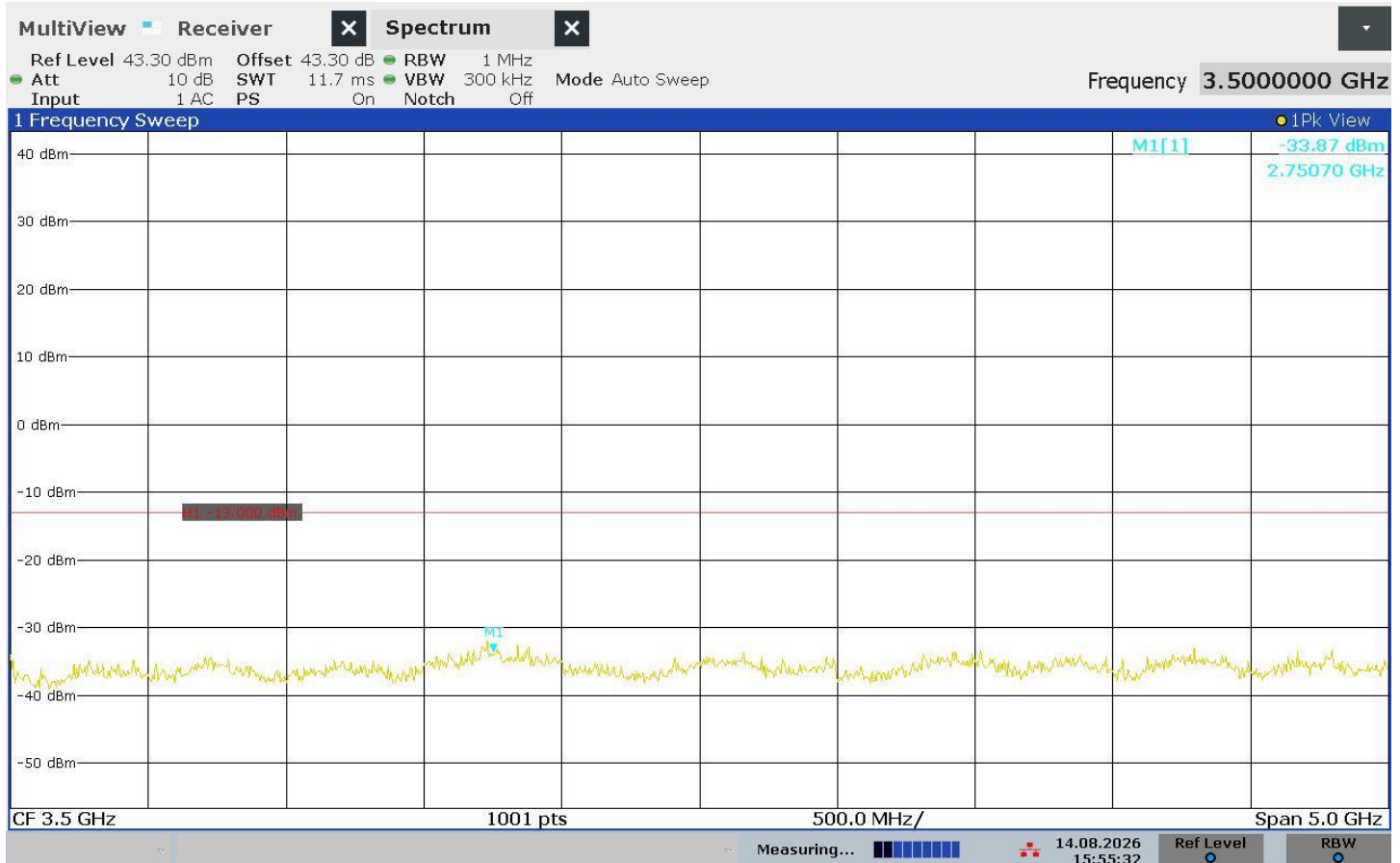
15:50:53 14.08.2026

9.5.9 Conducted Emissions, 25 kHz FM Analog, Below 1GHz, 403.0125 MHz



14:57:32 14.08.2026

9.5.10 Conducted Emissions, 25 kHz FM Analog, Above 1GHz, 403.0125 MHz



15:55:33 14.08.2026