RADIO TEST REPORT

REP064941

Date of issue: November 19, 2024

Applicant:

Andrew Wireless Systems Industriering 10, Buchdorf 86675 Germany

Product:

RPM-A61L1-05

Model:	Model variant:
7847585-01	None

FCC ID:	IC Registration number:
XS5-RPML2-B5	NA

Specifications:

- FCC 47 CFR Part 22H

  Public Mobile Services

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LAB N° 1244 L

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Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report. This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Spa ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Andrew Wireless Systems
Address	Industriering 10,
City	Buchdorf
Province/State	--
Postal/Zip code	86675
Country	Germany

1.2 Test specifications

FCC 47 CFR Part 22	Public Mobile Services

1.3 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.4 Exclusions

None

1.5 Test report revision history

Revision #	Details of changes made to test report
REP064941	Original report issued

Section 2. Summary of test results

2.1 FCC Part 22H test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§2.1049(h)	99% and 26 dB occupied bandwidth	Pass
§22.355	Frequencies	Pass
§22.913	Power and antenna height limits	Pass
§22.913(d)	Peak to average power ratio	Pass
§22.917	Conducted and radiated spurious emissions	Pass
§22.917	Frequency stability	Pass

Note: None.

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	September 23, 2024
Nemko sample ID number	PRJ0063077007

3.2 EUT information

Product name	RPM-A61L1-05
Model	7847585-01
Part Number	7847585-01
Serial number	SZRMBM24360035

3.3 Technical information

Frequency band	5G nr5: 869-894 MHz
RF power Max (W), Conducted	max Port 1 = 22.4 dBm (0.17 W) – max Port 2 = 22.2 dBm (0.16 W); max comb. Port 1 + Port 2 = 25.3 dBm (0.34 W) @ 874 MHz (with 10 MHz bandwidth)
Supported bandwidths:	5, 10 MHz
Type of modulation	TM1.1, TM3p1, TM3p1a, TM3p3 (QPSK, 16QAM, 64QAM, 256QAM)
Power requirements	48 Vdc
Antenna information	The EUT uses a unique antenna coupling/ non-detachable antenna to the intentional radiator.
Antenna gain	4.8 dBi

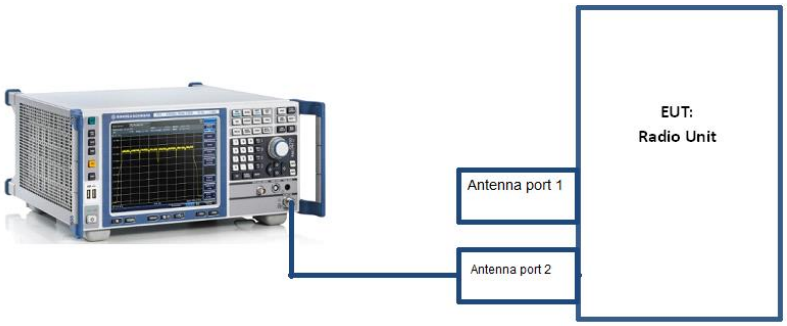
3.4 Product description and theory of operation

The radio unit (RU) is one of the components to configure the 5G RAN mobile communication system.

3.5 EUT exercise details

A laptop computer was used to send test commands to EUT to force it to transmit the appropriate signal. Unit transmit the selected signal at full power. The unit was tested using a conducted port. The antenna installation shall be done by professionals, and they are not within the scope of the tests evaluated on this document.

3.6 EUT setup diagram



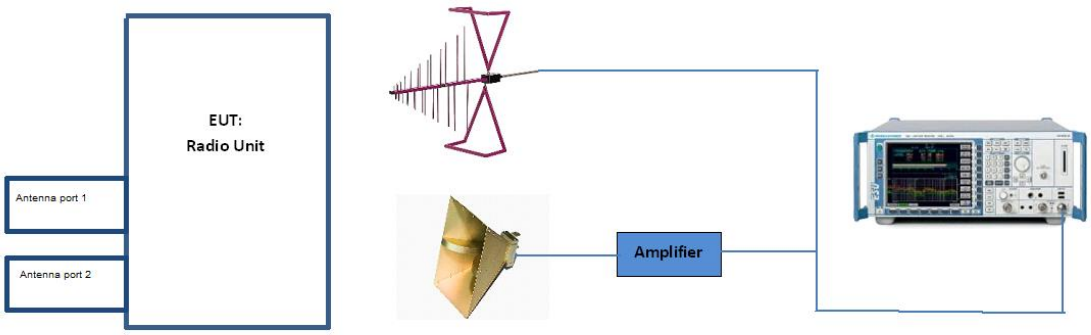


Figure 3.6-1: Setup diagram

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	15 °C – 35 °C
Relative humidity	20 % – 75 %
Air pressure	86 kPa (860 mbar) – 106 kPa (1060 mbar)

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

The following instruments are used to monitor the environmental conditions:

Equipment	Manufacturer	Model no.	Asset no.	Cal date	Next cal.
Thermo-hygrometer data loggers	Testo	175-H2	20012380/305	2022-12	2024-12
Thermo-hygrometer data loggers	Testo	175-H2	38203337/703	2022-12	2024-12
Barometer	Castle	GPB 3300	072015	2024-04	2025-04

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ±5 %, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

The measurement uncertainty was calculated for each test and quantity listed in this test report, according to CISPR 16-4-2, ETSI TR 100 028-1, ETSI TR 100 028-2 and other specific test standards and is documented in Nemko Spa working manuals WML1002 and WML0078.
The assessment of conformity for each test performed on the equipment is performed not taking into account the measurement uncertainty. The two following possible verdicts are stated in the report:
P (Pass) - The measured values of the equipment respect the specification limit at the points tested. The specific risk of false accept is up to 50% when the measured result is close to the limit.
F (Fail) - One or more measured values of the equipment do not respect the specification limit at the points tested. The specific risk of false reject is up to 50% when the measured result is close to the limit.
Hereafter Nemko's measurement uncertainties are reported:

EUT	Type	Test	Range	Measurement Uncertainty	Notes
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)
		Carrier power RF Output Power	0.009 MHz ÷ 30 MHz	1.1 dB	(1)
			30 MHz ÷ 18 GHz	1.5 dB	(1)
			18 MHz ÷ 40 GHz	3.0 dB	(1)
			40 MHz ÷ 140 GHz	5.0 dB	(1)
		Adjacent channel power	1 MHz ÷ 18 GHz	1.4 dB	(1)
		Conducted spurious emissions	0.009 MHz ÷ 18 GHz	3.0 dB	(1)
			18 GHz ÷ 40 GHz	4.2 dB	(1)
			40 GHz ÷ 220 GHz	6.0 dB	(1)
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)
		Dwell time	-	3%	(1)
		Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)
		Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)
		Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)
	Radiated	Radiated spurious emissions	0.009 MHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)
		Effective radiated power transmitter	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)

NOTES:
(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 %

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: *Equipment list*

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2024-01	2025-01
EMI Receiver	Rohde & Schwarz	ESU8	100202	2024-09	2025-09
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-08	2025-08
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263254	2024-05	2025-05
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263397	2024-09	2025-09
Climatic Chamber	MSL	EC500DA	15022	2024-01	2025-01
Antenna Trilog 25MHz - 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025	2024-07	2027-07
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-09	2027-09
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-04	2026-04
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2024-01	2025-01
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01	2024-04	2025-04
Semi-anechoic chamber	Nemko S.p.a.	10m semi-anechoic chamber	530	2023-09	2025-09
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
Semi-anechoic chamber	Comtest	3m SAC	1711-150	2024-09	2026-09
Controller	Maturo	FCU3.0	10237	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	3466.01	NCR	NCR
Turntable	Maturo	TT4.0	-	NCR	NCR
Pyramidal Horn Antenna 40-60 GHz	Sage	SAR-2507-19VF-R2	15715-01	2024-06	2027-06
Harmonic Mixer	Radiometer Physics	FS-Z60	100988	2024-01	2027-01
Cable set	Rosenberger	ST.ALO-02	1.650	2024-10	2025-10
Cable set	Rosenberger and Huber + Suhner	RE01+RE02	1.654+1.655	2024-09	2025-09
Cable set	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2024-09	2025-09

Section 8. Testing data

8.1 FCC §2.1033(c)(4) Modulation type

8.1.1 Definitions and limits

(c) Applications for equipment other than that operating under parts 15, 11 and 18 of this chapter shall be accompanied by a technical report containing the following information:
(4) Type or types of emission

8.1.2 Test summary

Test date	October 21, 2024	Temperature	22 °C
Test engineer	O. Frau	Air pressure	1001 mbar
Verdict	Pass	Relative humidity	62 %

8.1.3 Observations, settings and special notes

None

8.1.4 Test data

Band n5:

Bandwidth (MHz)	Emission type
5	TM1.1
5	TM3p1
5	TM3p1a
5	TM3p3
10	TM1.1
10	TM3p1
10	TM3p1a
10	TM3p3

***Table** Errore. Per applicare Heading 2 al testo da visualizzare in questo punto, utilizzare la scheda Home.**-1:** Types of emission*

8.2 FCC §2.1049(h) 99% Occupied Bandwidth and frequency ranges

8.2.1 Definitions and limits

§2.1049 (h) Transmitters employing digital modulation techniques—when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the use.

8.2.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 31, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.2.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.2.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.2.5 Test data

Band n5: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM1.1	871.5	4.49
n5	5 MHz	TM1.1	881.5	4.48
n5	5 MHz	TM1.1	891.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM3p1	871.5	4.48
n5	5 MHz	TM3p1	881.5	4.49
n5	5 MHz	TM3p1	891.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM3p1a	871.5	4.49
n5	5 MHz	TM3p1a	881.5	4.49
n5	5 MHz	TM3p1a	891.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM3p3	871.5	4.52
n5	5 MHz	TM3p3	881.5	4.52
n5	5 MHz	TM3p3	891.5	4.51

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM1.1	874.0	9.31
n5	10 MHz	TM1.1	881.5	9.30
n5	10 MHz	TM1.1	889.0	9.31

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM3p1	874.0	9.29
n5	10 MHz	TM3p1	881.5	9.29
n5	10 MHz	TM3p1	889.0	9.29

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM3p1a	874.0	9.32
n5	10 MHz	TM3p1a	881.5	9.32
n5	10 MHz	TM3p1a	889.0	9.32

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM3p3	874.0	9.14
n5	10 MHz	TM3p3	881.5	9.15
n5	10 MHz	TM3p3	889.0	9.13

Band n5: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM1.1	871.5	4.47
n5	5 MHz	TM1.1	881.5	4.50
n5	5 MHz	TM1.1	891.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM3p1	871.5	4.48
n5	5 MHz	TM3p1	881.5	4.49
n5	5 MHz	TM3p1	891.5	4.48

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM3p1a	871.5	4.50
n5	5 MHz	TM3p1a	881.5	4.49
n5	5 MHz	TM3p1a	891.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	5 MHz	TM3p3	871.5	4.50
n5	5 MHz	TM3p3	881.5	4.51
n5	5 MHz	TM3p3	891.5	4.52

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM1.1	874.0	9.31
n5	10 MHz	TM1.1	881.5	9.30
n5	10 MHz	TM1.1	889.0	9.31

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM3p1	874.0	9.28
n5	10 MHz	TM3p1	881.5	9.29
n5	10 MHz	TM3p1	889.0	9.29

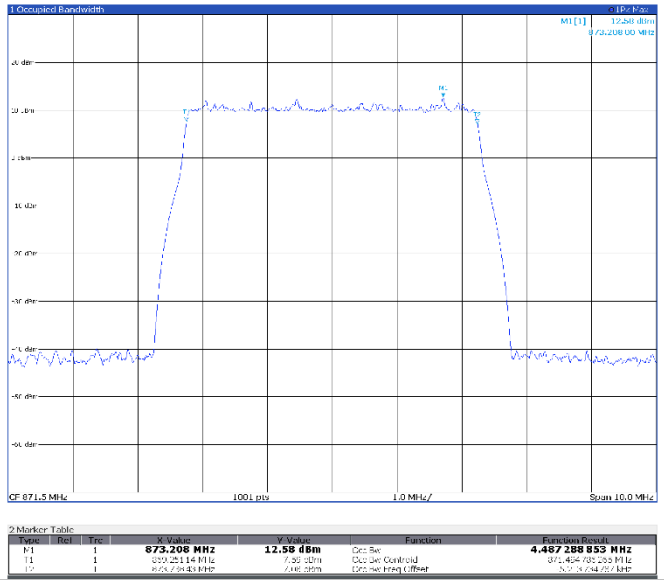
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM3p1a	874.0	9.32
n5	10 MHz	TM3p1a	881.5	9.32
n5	10 MHz	TM3p1a	889.0	9.32

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n5	10 MHz	TM3p3	874.0	9.14
n5	10 MHz	TM3p3	881.5	9.13
n5	10 MHz	TM3p3	889.0	9.14

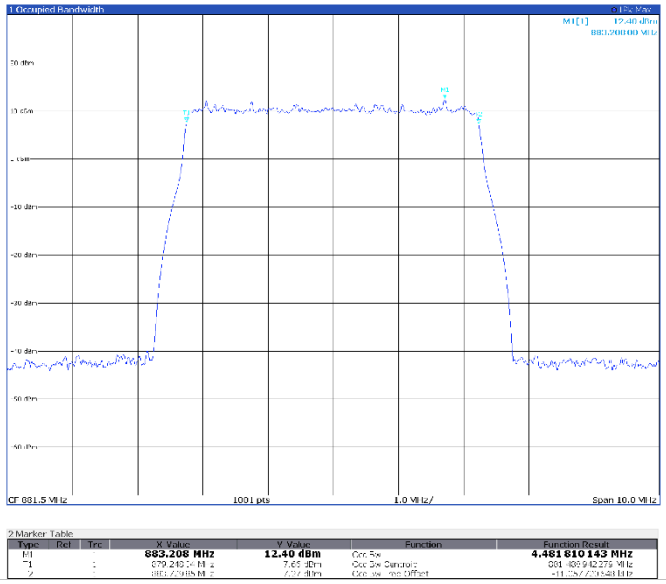
Antenna port 1

Band n5	**5 MHz**

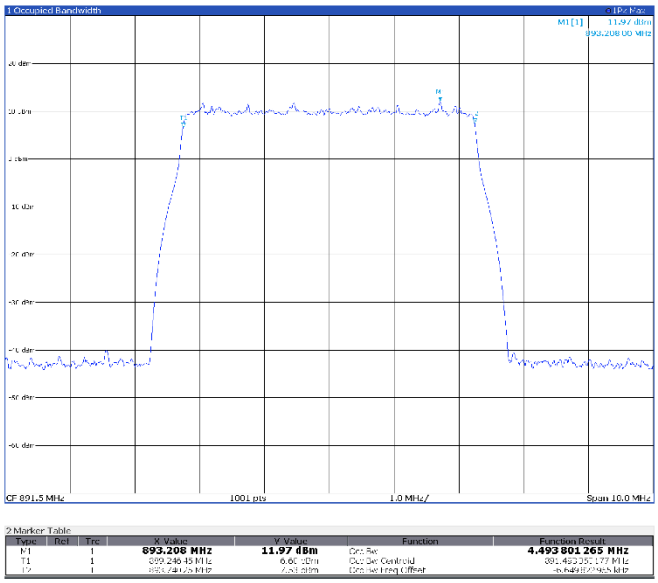
TM1.1, 5 MHz, low channel



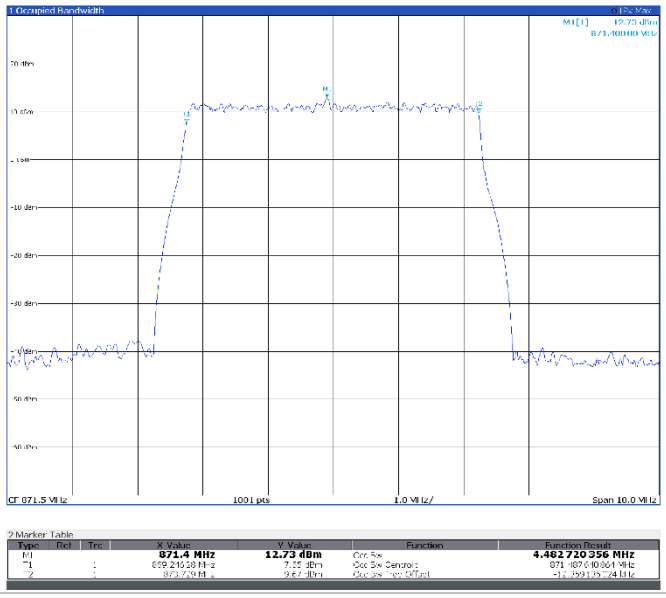
TM1.1, 5 MHz, mid channel



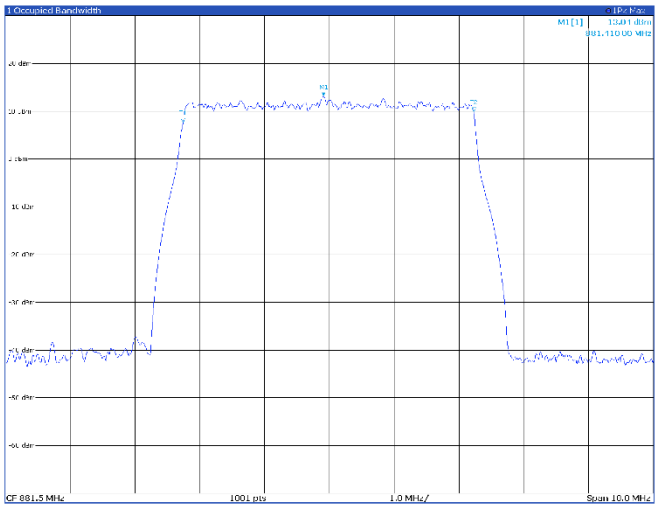
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



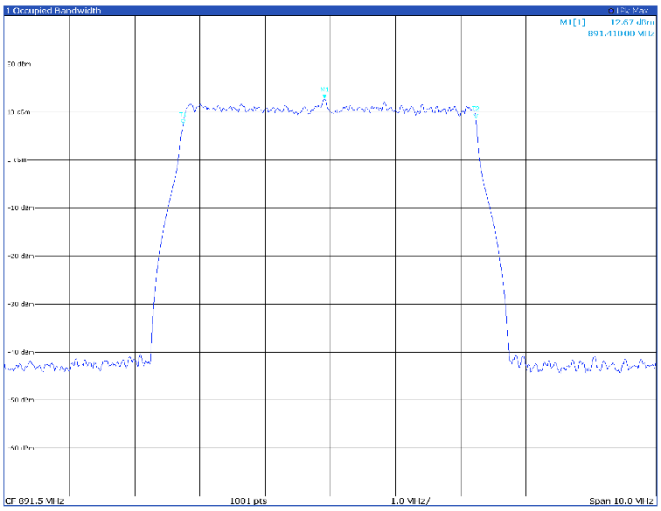
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**881.41 MHz**	**13.04 dBm**	Occ Bw	**4.486 117 74 MHz**
T1		1	879.249 33 MHz	7.64 dBm	Occ Bw Centroid	881.486 394 393 MHz
T2		1	883.724 45 MHz	9.02 dBm	Occ Bw Freq Offset	13.967 [illegible] MHz

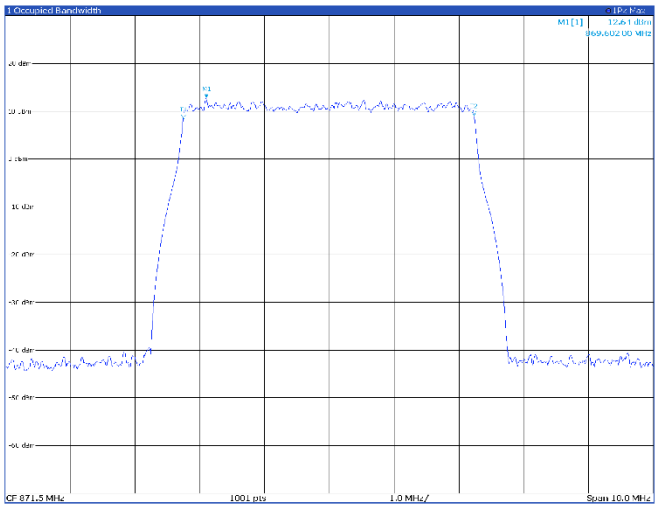
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**881.41 MHz**	**12.67 dBm**	Occ Bw	**4.486 585 021 MHz**
T1			879.229 59 MHz	7.41 dBm	Occ Bw Centroid	881.480 798 762 MHz
T2			883.724 47 MHz	8.62 dBm	Occ Bw Freq Offset	-13.952 226 206 MHz

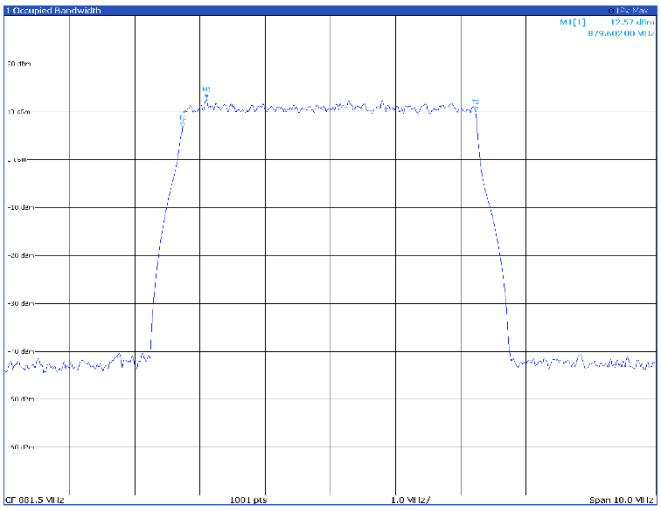
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**869.602 MHz**	**12.64 dBm**	Occ Bw	**4.486 658 639 MHz**
T1		1	867.249 92 MHz	8.26 dBm	Occ Bw Centroid	871.499 145 130 MHz
T2		1	873.724 47 MHz	9.04 dBm	Occ Bw Freq Offset	10.856 [illegible] MHz

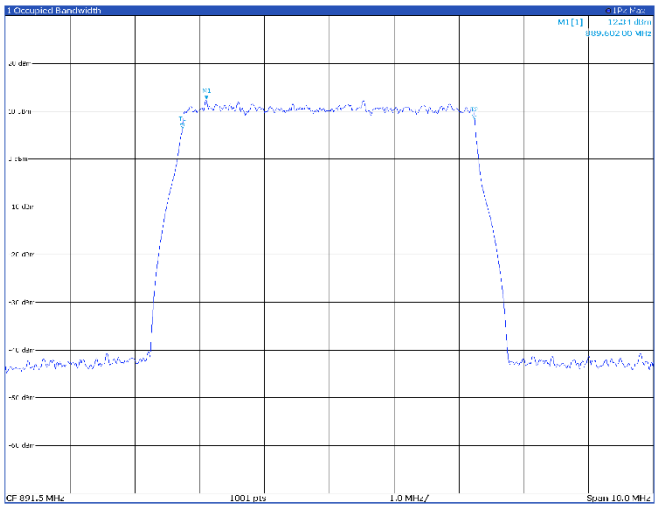
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**879.602 MHz**	**12.57 dBm**	Occ Bw	**4.494 990 214 MHz**
T1			877.229 33 MHz	6.69 dBm	Occ Bw Centroid	881.480 733 042 MHz
T2			883.724 47 MHz	9.02 dBm	Occ Bw Freq Offset	-15.776 157 400 MHz

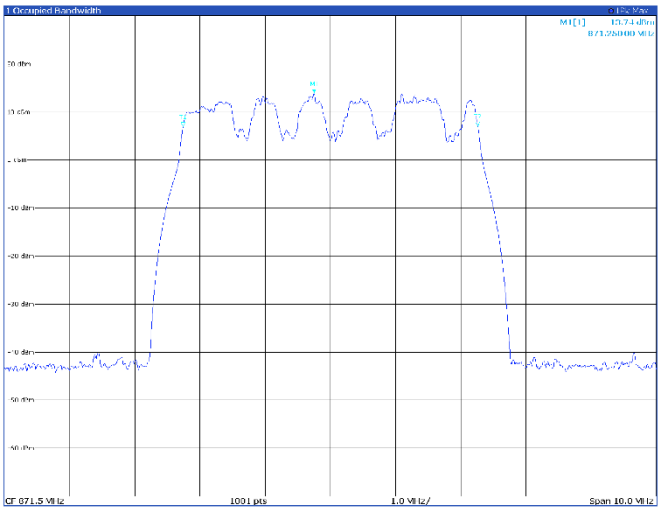
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	889.602 MHz	12.34 dBm	Occ Bw	4.498 997 015 MHz
T1		1	889.234 32 MHz	6.39 dBm	Occ Bw Centroid	891.492 018 952 MHz
T2		1	894.734 69 MHz	6.39 dBm	Occ Bw freq Offset	16.191 146 952 MHz

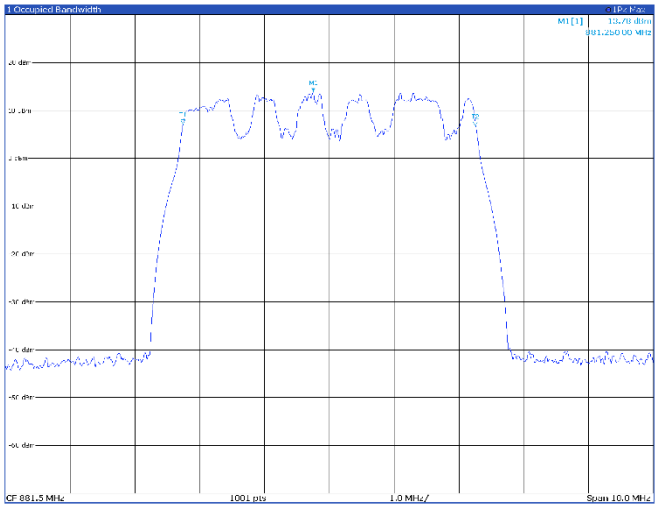
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	871.25 MHz	13.74 dBm	Occ Bw	4.517 375 636 MHz
T1		1	869.241 77 MHz	6.94 dBm	Occ Bw Centroid	871.501 450 206 MHz
T2		1	873.75915 MHz	7.03 dBm	Occ Bw freq Offset	-20.208 819 900 MHz

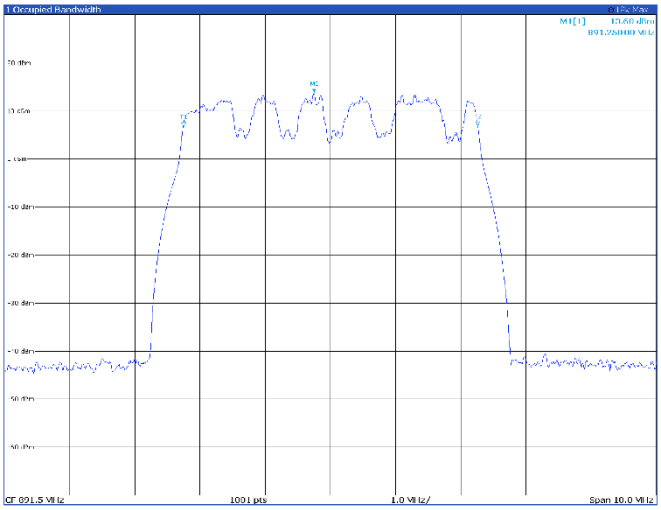
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	881.25 MHz	13.78 dBm	Occ Bw	4.515 473 107 MHz
T1		1	879.220 78 MHz	7.07 dBm	Occ Bw Centroid	881.497 515 221 MHz
T2		1	883.75575 MHz	6.77 dBm	Occ Bw freq Offset	2.494 498 221 MHz

TM3p3, 5 MHz, high channel

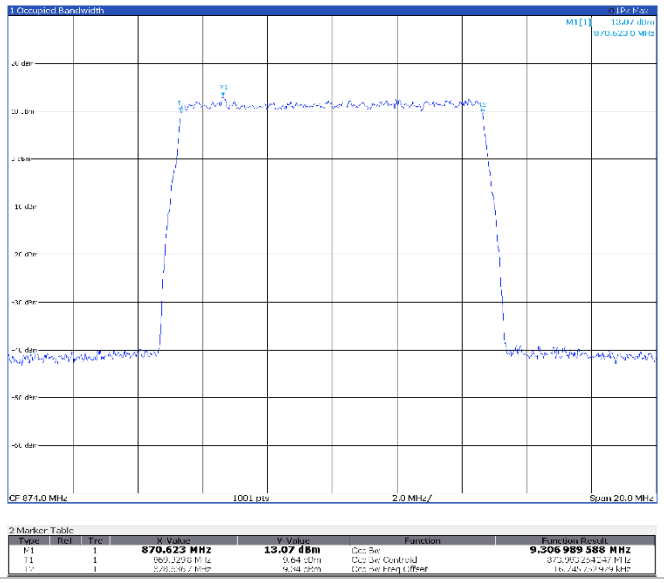


2 Marker Table

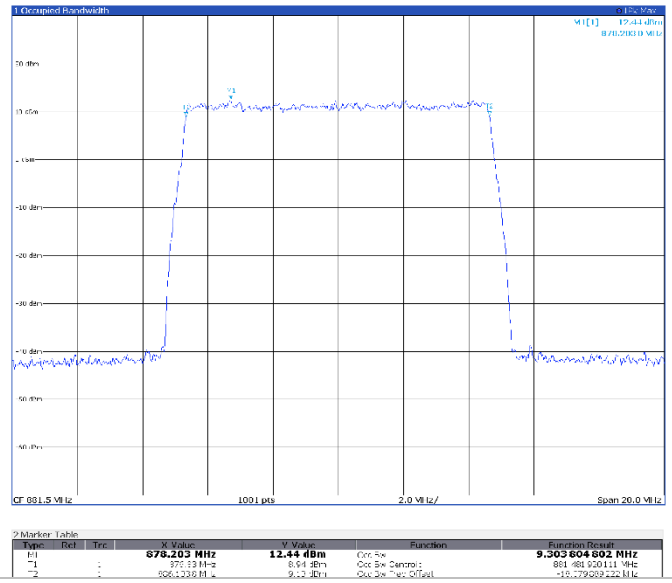
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	891.25 MHz	13.60 dBm	Occ Bw	4.511 525 409 MHz
T1		1	889.241 57 MHz	6.67 dBm	Occ Bw Centroid	891.511 432 22 MHz
T2		1	893.75575 MHz	6.75 dBm	Occ Bw freq Offset	1.432 189 911 MHz

Band n5 **10 MHz**

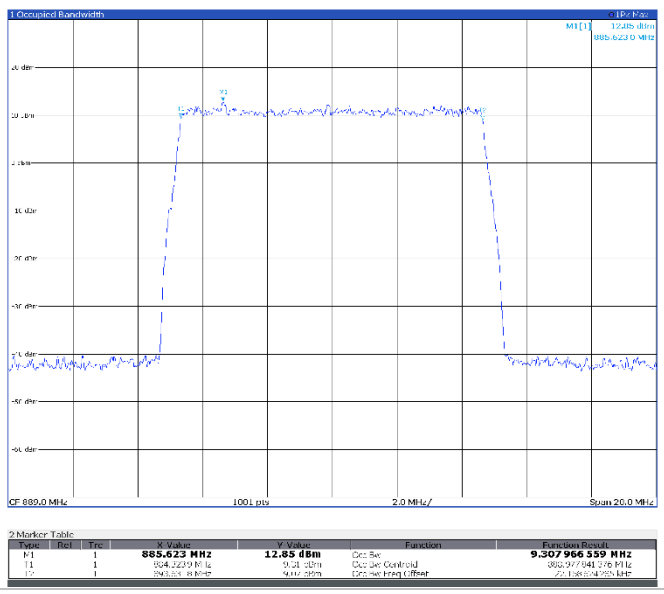
TM1.1, 10 MHz, low channel



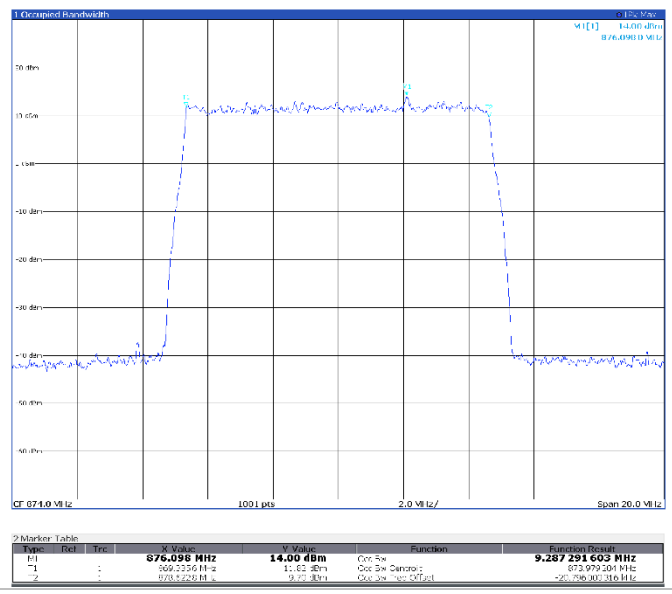
TM1.1, 10 MHz, mid channel



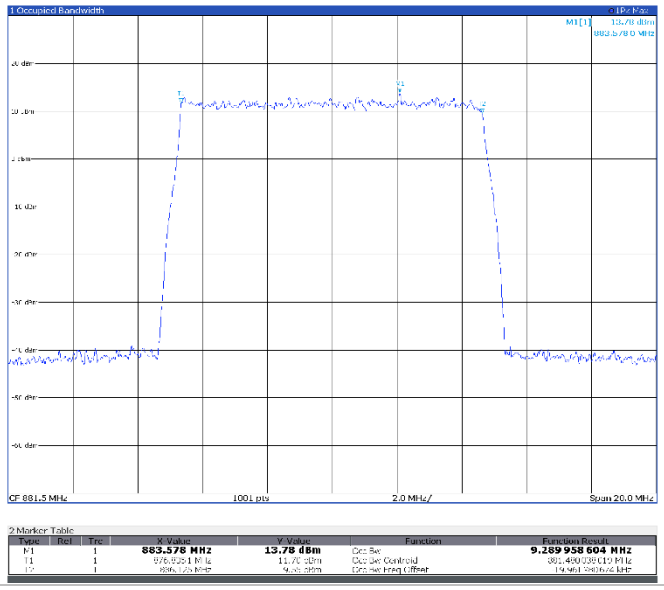
TM1.1, 10 MHz, high channel



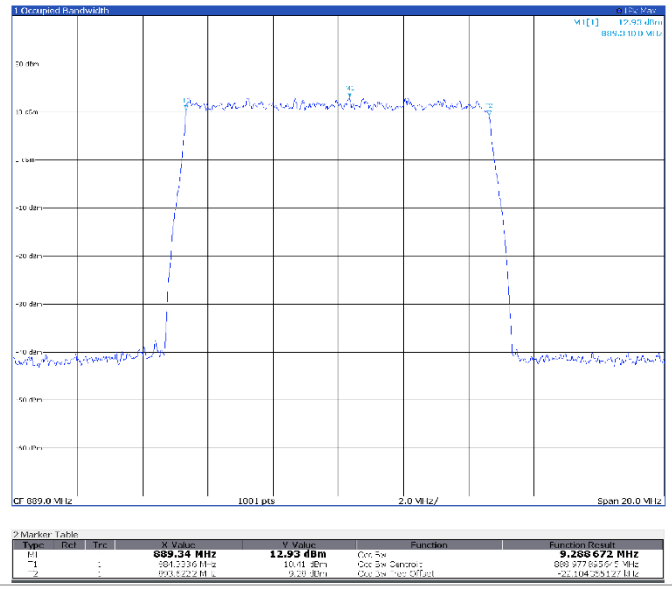
TM3p1, 10 MHz, low channel



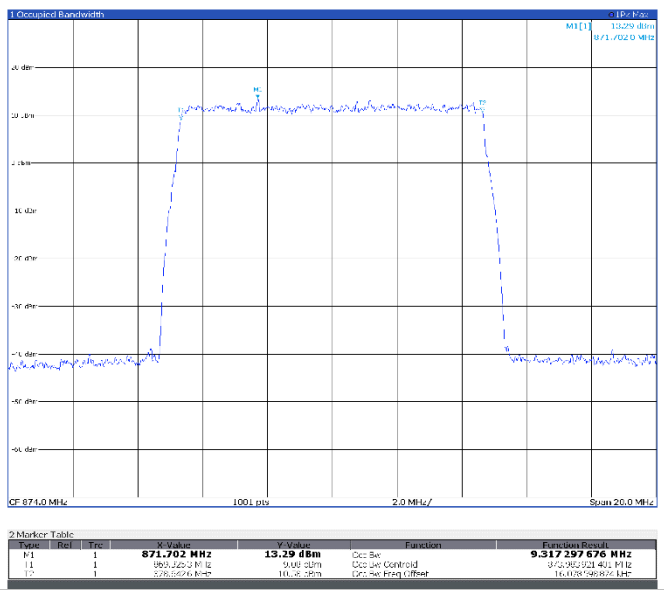
TM3p1, 10 MHz, mid channel



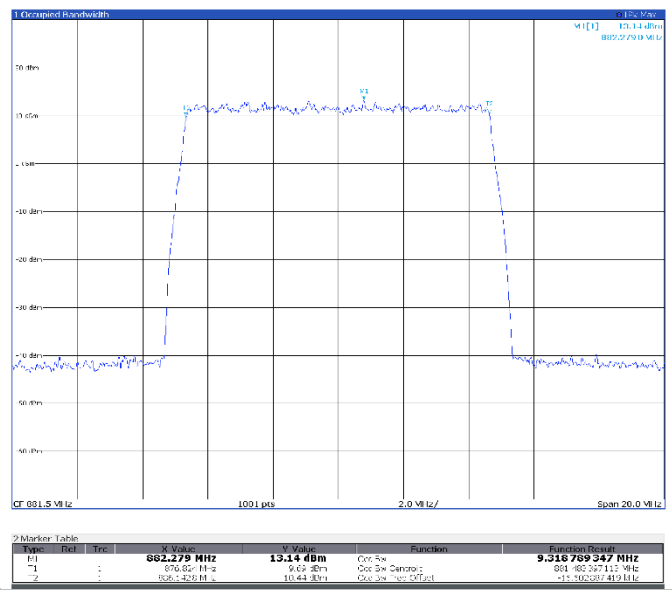
TM3p1, 10 MHz, high channel



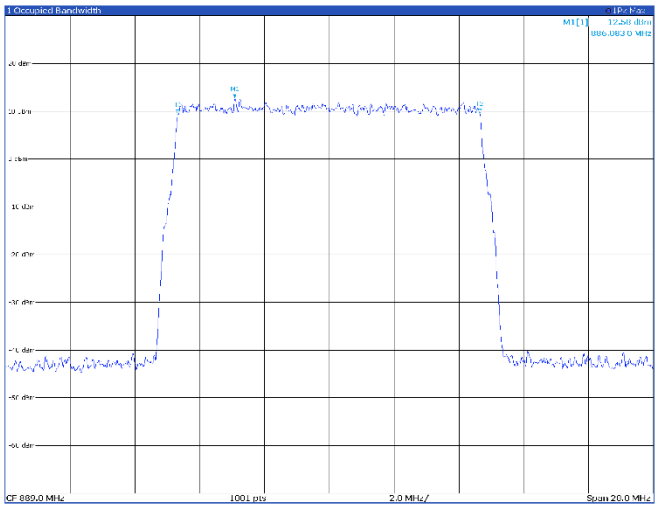
TM3p1a, 10 MHz, low channel



TM3p1a, 10 MHz, mid channel



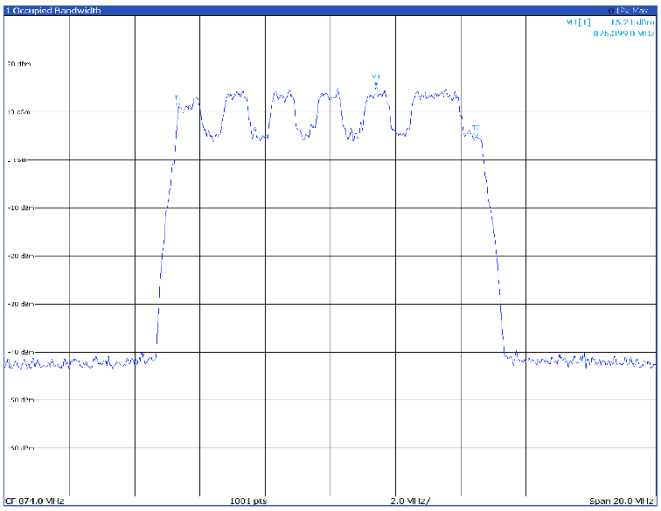
TM3p1a, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**886.083 MHz**	**12.58 dBm**	Occ Bw	**9.317 426 112 MHz**
T1		1	884.3231 MHz	9.26 dBm	Occ Bw Centroid	886.994 339 707 MHz
T2		1	891.6631 MHz	4.94 dBm	Occ Bw freq Offset	15.660 247 464 MHz

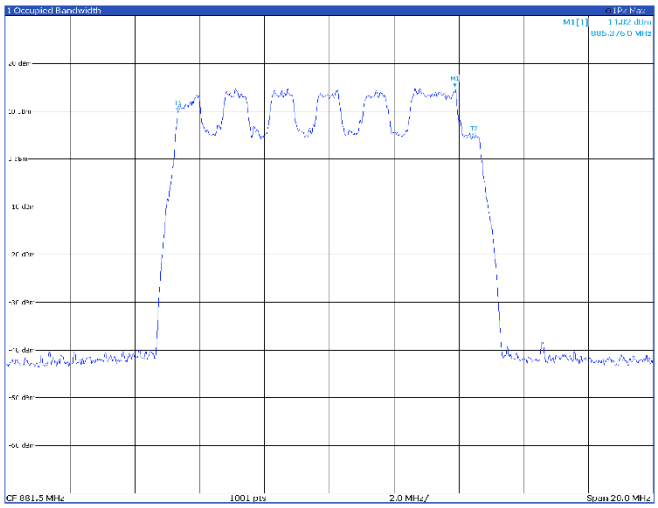
TM3p3, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**875.399 MHz**	**15.21 dBm**	Occ Bw	**9.141 738 13 MHz**
T1			869.2306 MHz	10.84 dBm	Occ Bw Centroid	873.907 431 7 MHz
T2			878.4783 MHz	4.64 dBm	Occ Bw freq Offset	-[illegible] MHz

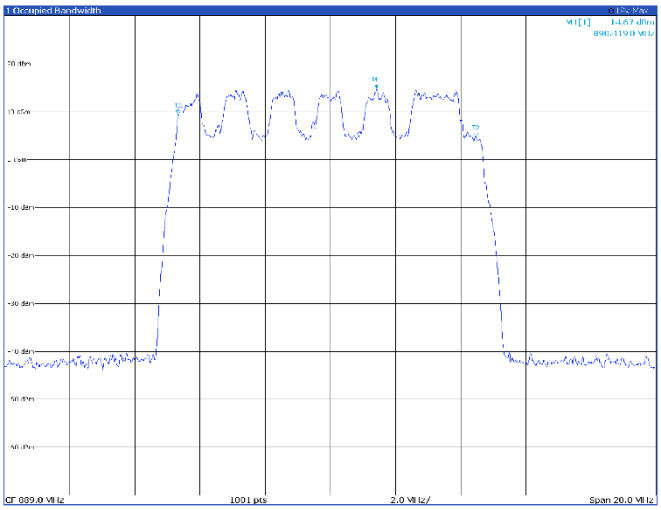
TM3p3, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**885.376 MHz**	**14.82 dBm**	Occ Bw	**9.147 521 009 MHz**
T1		1	876.9302 MHz	9.73 dBm	Occ Bw Centroid	881.4[illegible] MHz
T2		1	886.5777 MHz	4.96 dBm	Occ Bw freq Offset	[illegible] MHz

TM3p3, 10 MHz, high channel



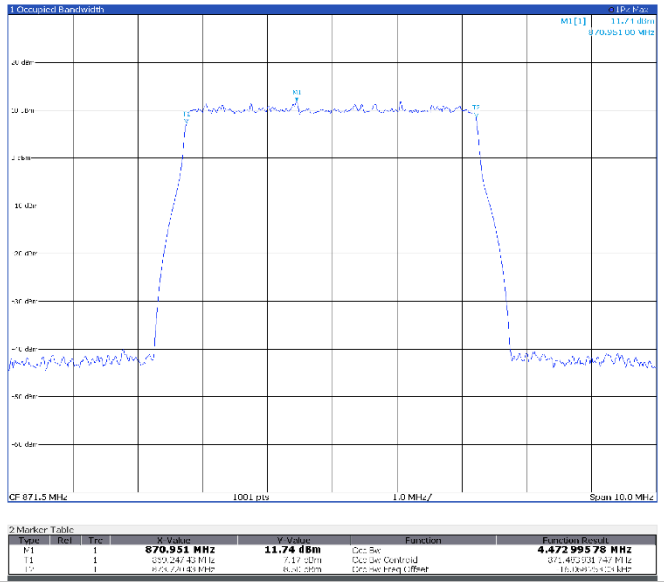
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**890.419 MHz**	**14.67 dBm**	Occ Bw	**9.128 179 195 MHz**
T1			884.3321 MHz	9.23 dBm	Occ Bw Centroid	888.[illegible] MHz
T2			893.4502 MHz	4.61 dBm	Occ Bw freq Offset	[illegible] MHz

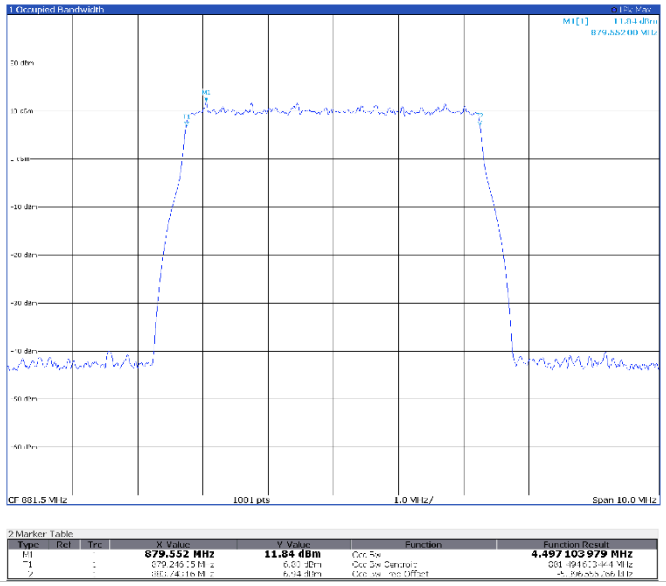
Antenna port 2

Band n5	**5 MHz**

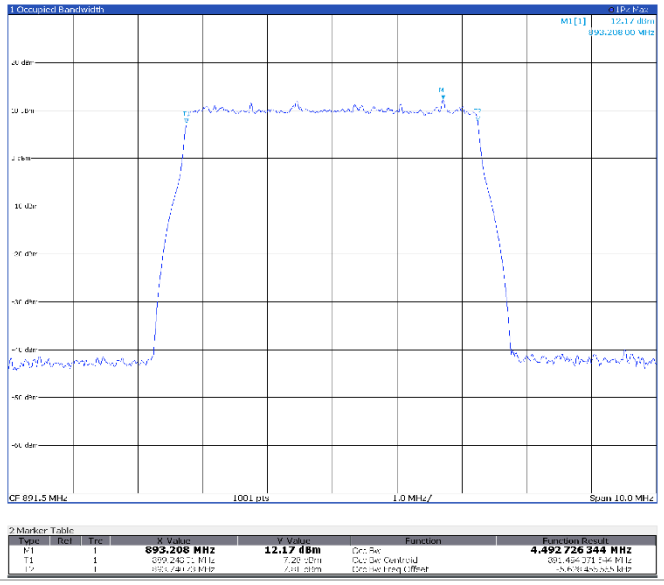
TM1.1, 5 MHz, low channel



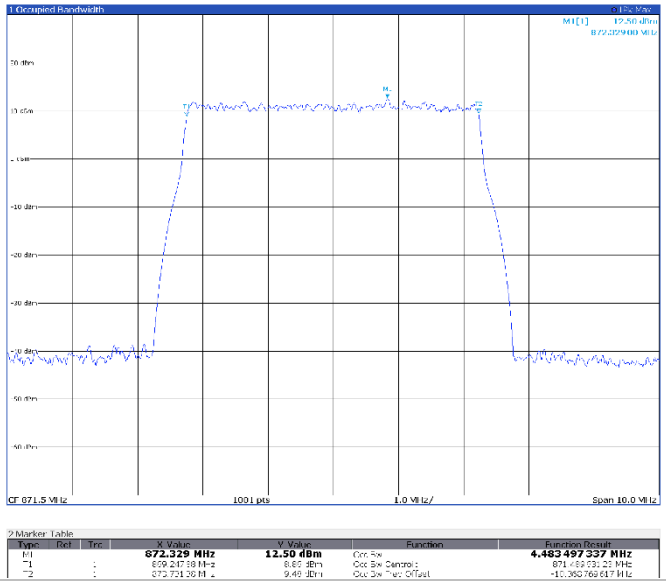
TM1.1, 5 MHz, mid channel



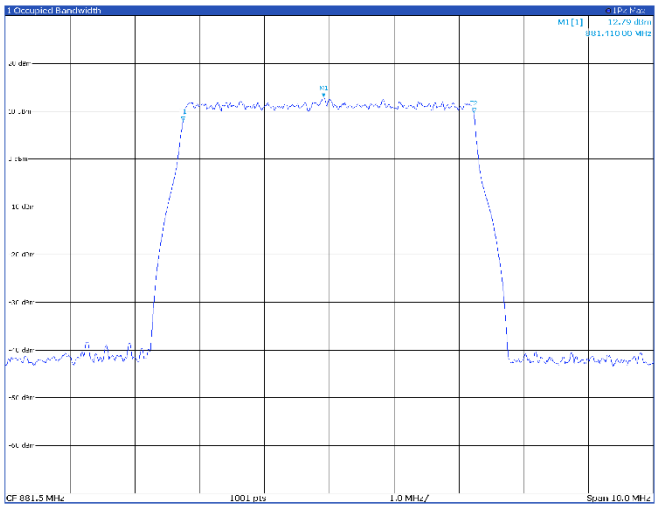
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



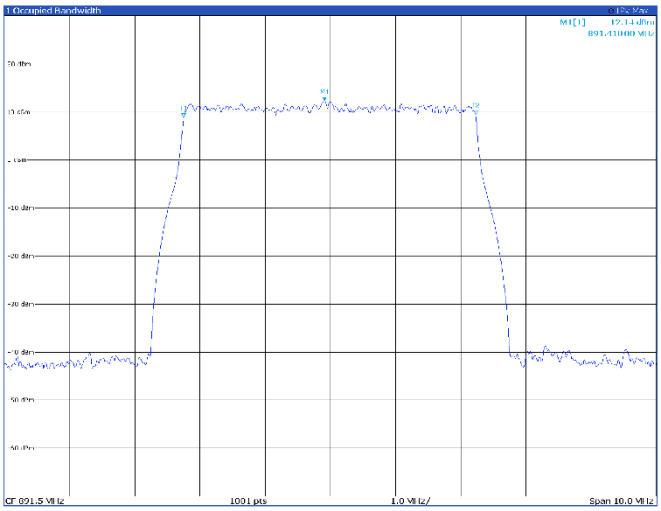
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**881.41 MHz**	**12.79 dBm**	Occ Bw	**4.487 062 433 MHz**
T1		1	879.242 41 MHz	7.06 dBm	Occ Bw Centroid	881.495 530 356 MHz
T2		1	883.724 47 MHz	9.02 dBm	Occ Bw Freq Offset	14.061 664 065 MHz

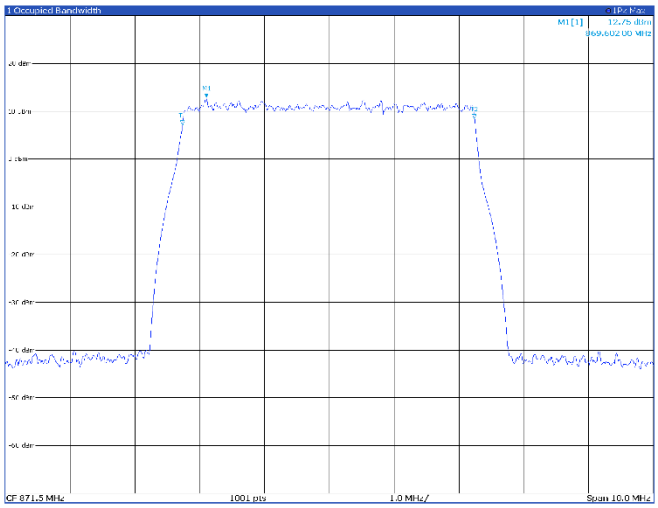
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**891.41 MHz**	**12.14 dBm**	Occ Bw	**4.479 223 122 MHz**
T1			889.249 55 MHz	8.72 dBm	Occ Bw Centroid	891.489 455 453 MHz
T2			893.728 36 MHz	9.31 dBm	Occ Bw Freq Offset	-12.554 547 066 MHz

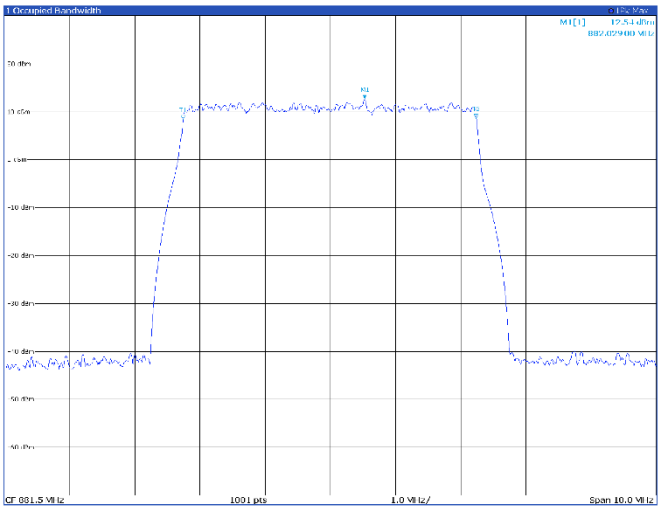
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**869.602 MHz**	**12.75 dBm**	Occ Bw	**4.498 884 758 MHz**
T1		1	867.235 26 MHz	7.12 dBm	Occ Bw Centroid	871.494 701 702 MHz
T2		1	873.734 14 MHz	8.60 dBm	Occ Bw Freq Offset	13.248 246 698 MHz

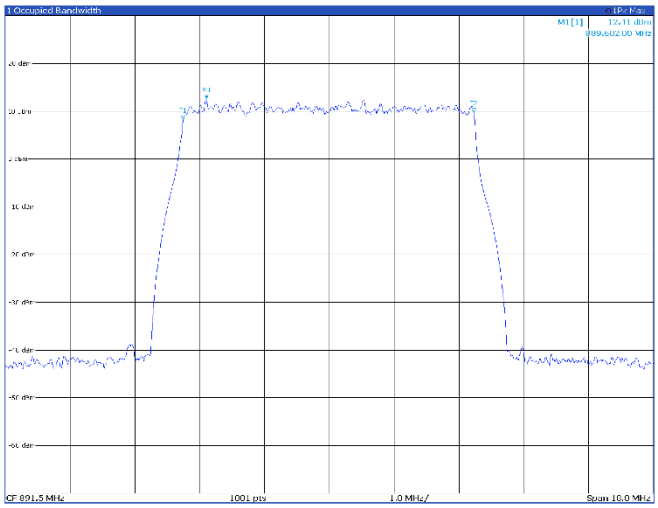
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**882.029 MHz**	**12.54 dBm**	Occ Bw	**4.492 494 318 MHz**
T1			879.241 12 MHz	8.27 dBm	Occ Bw Centroid	881.487 254 873 MHz
T2			883.733 51 MHz	8.54 dBm	Occ Bw Freq Offset	-12.755 157 416 MHz

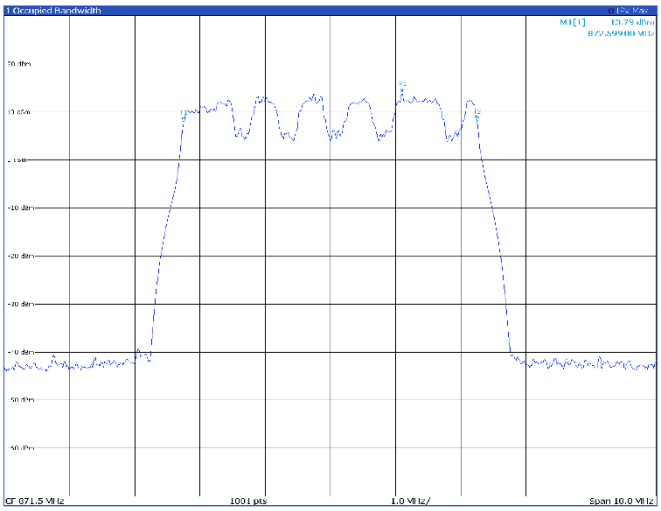
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	889.602 MHz	12.41 dBm	Occ Bw	4.489 382 277 MHz
T1		1	889.241 58 MHz	8.17 dBm	Occ Bw Centroid	891.496 265 518 MHz
T2		1	893.750 36 MHz	9.64 dBm	Occ Bw Freq Offset	13.793 481 36 kHz

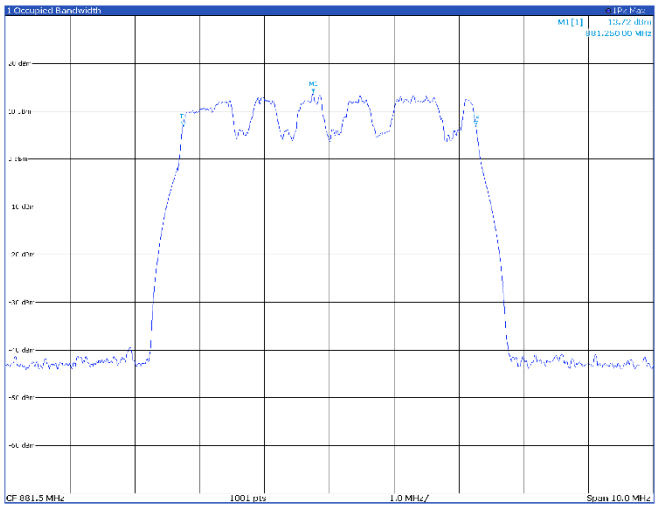
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			872.599 MHz	13.79 dBm	Occ Bw	4.500 715 25 MHz
T1		:	869.249 54 MHz	7.84 dBm	Occ Bw Centroid	871.501 012 018 MHz
T2		:	873.750 36 MHz	8.05 dBm	Occ Bw Freq Offset	2.017 691 851 Hz

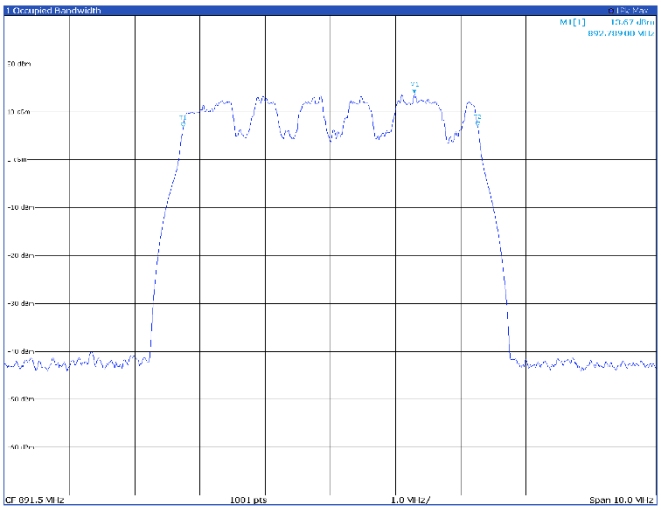
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	881.25 MHz	13.72 dBm	Occ Bw	4.511 776 182 MHz
T1		1	879.245 64 MHz	6.85 dBm	Occ Bw Centroid	881.501 731 611 MHz
T2		1	883.757 82 MHz	6.96 dBm	Occ Bw Freq Offset	1.730 610 751 kHz

TM3p3, 5 MHz, high channel

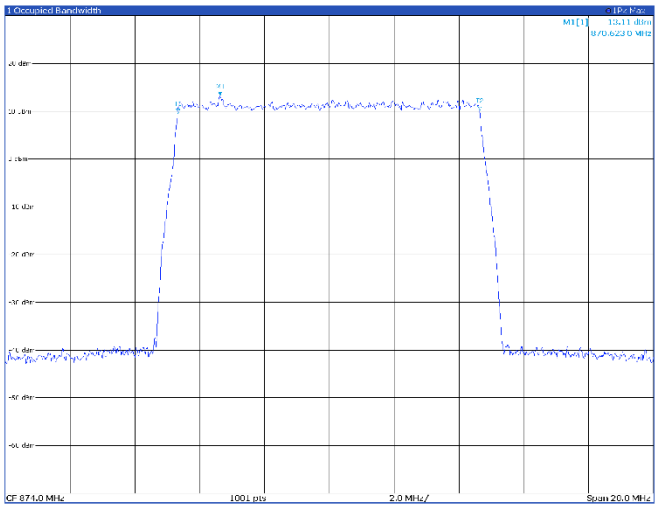


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			892.789 MHz	13.67 dBm	Occ Bw	4.515 684 667 MHz
T1		:	889.242 18 MHz	6.64 dBm	Occ Bw Centroid	891.501 018 943 MHz
T2		:	893.757 86 MHz	6.85 dBm	Occ Bw Freq Offset	18.842 857 038 Hz

Band n5 | **10 MHz**

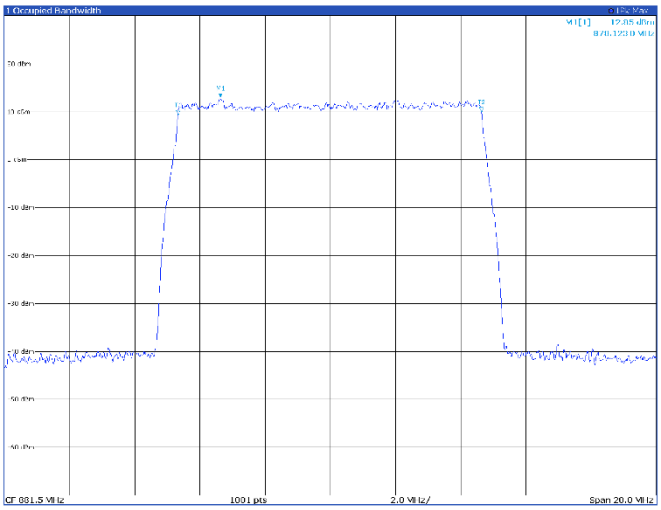
TM1.1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**870.623 MHz**	**13.11 dBm**	Occ Bw	**9.312 095 65 MHz**
T1		1	869.326 8 MHz	9.30 dBm	Occ Bw Centroid	872.962 093 820 MHz
T2		1	873.639 4 MHz	10.12 dBm	Occ Bw Freq Offset	1.962 093 820 MHz

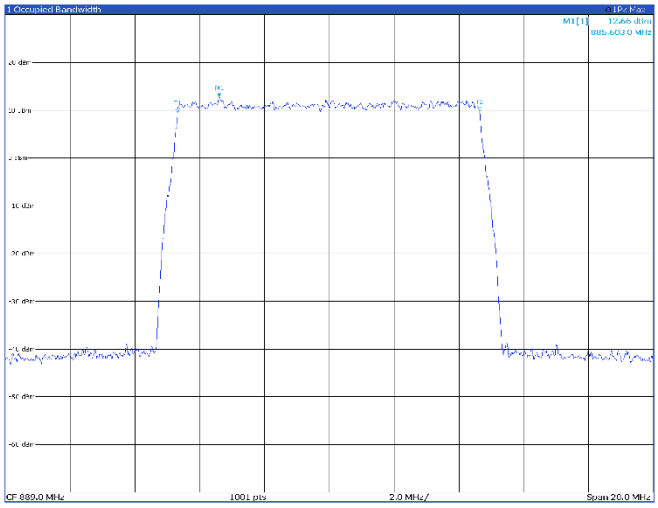
TM1.1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**878.123 MHz**	**12.85 dBm**	Occ Bw	**9.301 626 388 MHz**
T1			876.534 5 MHz	9.31 dBm	Occ Bw Centroid	881.485 274 361 MHz
T2			886.161 1 MHz	9.92 dBm	Occ Bw Freq Offset	-14.726 631 756 MHz

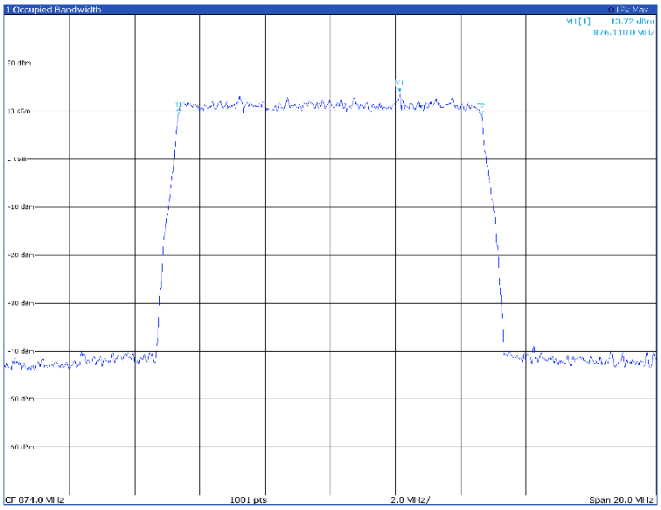
TM1.1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**885.603 MHz**	**12.66 dBm**	Occ Bw	**9.308 820 269 MHz**
T1		1	884.220 6 MHz	9.47 dBm	Occ Bw Centroid	888.940 819 196 MHz
T2		1	893.553 4 MHz	9.72 dBm	Occ Bw Freq Offset	21.940 819 196 MHz

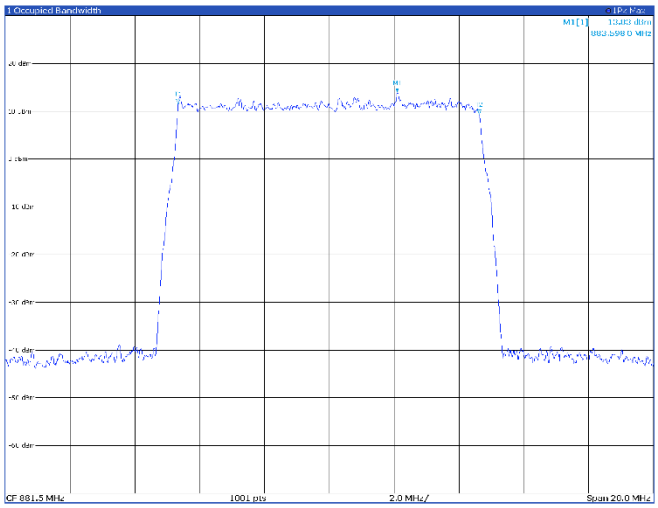
TM3p1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**876.118 MHz**	**13.72 dBm**	Occ Bw	**9.283 339 906 MHz**
T1			866.245 5 MHz	9.28 dBm	Occ Bw Centroid	873.285 339 906 MHz
T2			878.526 9 MHz	9.05 dBm	Occ Bw Freq Offset	-14.814 660 093 MHz

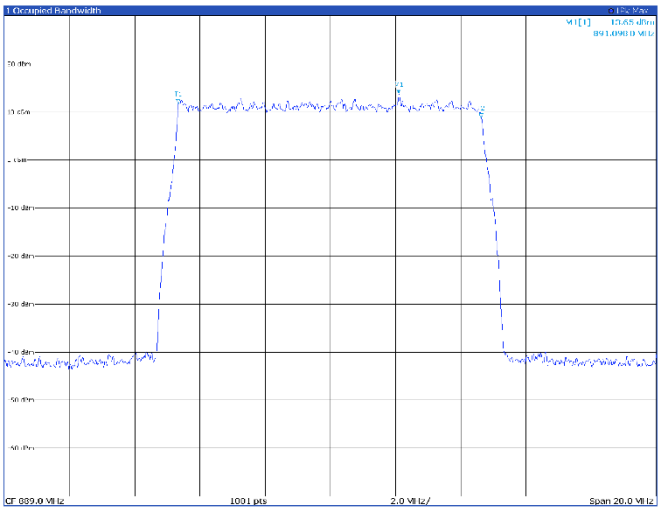
TM3p1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	883.598 MHz	13.83 dBm	Occ Bw	9.286 950 513 MHz
T1		1	[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2		1	[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

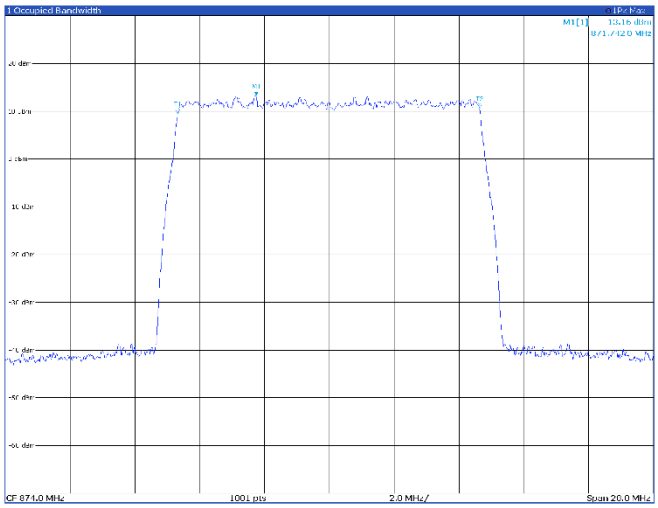
TM3p1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			891.098 MHz	13.65 dBm	Occ Bw	9.290 607 264 MHz
T1			[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2			[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

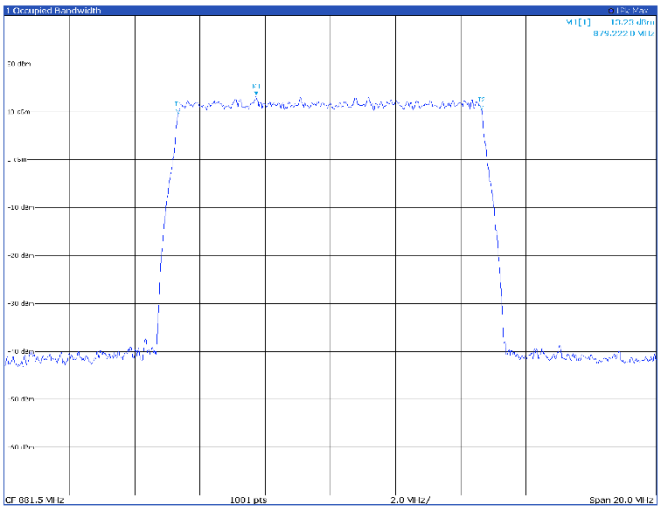
TM3p1a, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	871.742 MHz	13.16 dBm	Occ Bw	9.322 134 071 MHz
T1		1	[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2		1	[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

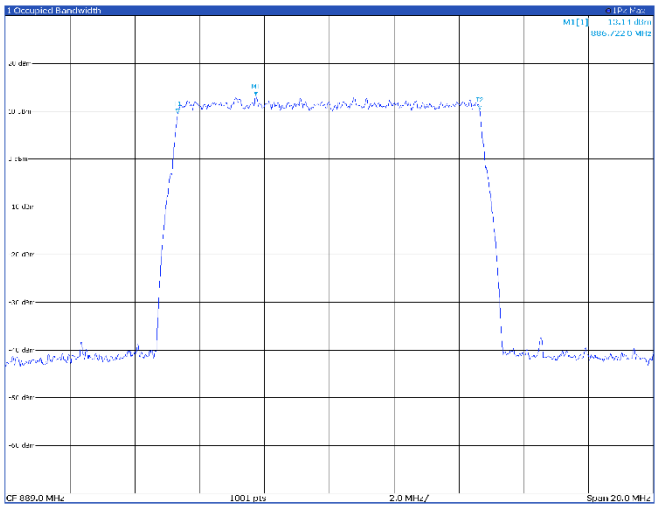
TM3p1a, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			879.222 MHz	13.23 dBm	Occ Bw	9.317 100 772 MHz
T1			[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2			[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

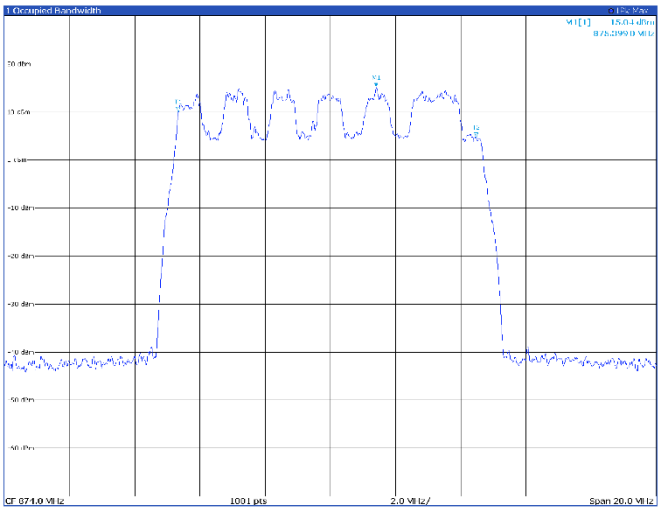
TM3p1a, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**886.722 MHz**	**13.14 dBm**	Occ Bw	**9.323 498 783 MHz**
T1		1	884.321 MHz	9.91 dBm	Occ Bw Centroid	880.962 741 723 MHz
T2		1	893.6641 MHz	10.05 dBm	Occ Bw Freq Offset	1.7258722761 MHz

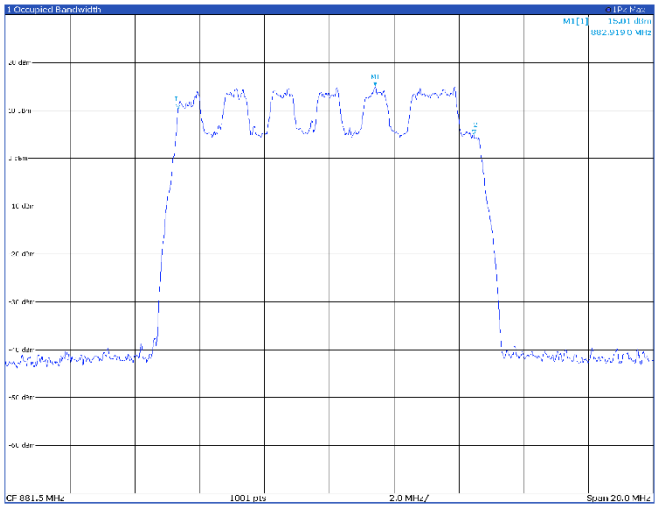
TM3p3, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**875.399 MHz**	**15.04 dBm**	Occ Bw	**9.142 095 981 MHz**
T1			869.2056 MHz	10.02 dBm	Occ Bw Centroid	873.905 658 037 MHz
T2			878.4477 MHz	4.74 dBm	Occ Bw Freq Offset	-[illegible] 642 724 MHz

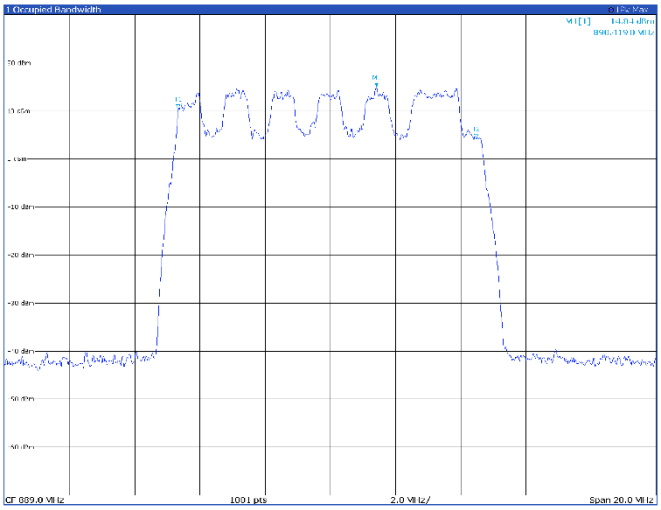
TM3p3, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**882.919 MHz**	**15.01 dBm**	Occ Bw	**9.127 168 04 MHz**
T1		1	876.8268 MHz	10.41 dBm	Occ Bw Centroid	881.394 412 706 MHz
T2		1	886.4658 MHz	2.46 dBm	Occ Bw Freq Offset	[illegible] MHz

TM3p3, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**890.419 MHz**	**14.84 dBm**	Occ Bw	**9.137 891 484 MHz**
T1			884.336 MHz	10.41 dBm	Occ Bw Centroid	888.9[illegible] MHz
T2			893.4739 MHz	4.24 dBm	Occ Bw Freq Offset	[illegible] MHz

8.3 FCC §2.1049(h) 26 dB Occupied Bandwidth

8.3.1 Definitions and limits

(3) Measurement procedure.

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.3.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 31, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.3.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.3.3 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.3.4 Test data

Band n5: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM1.1	871.5	5.04
n5	5 MHz	TM1.1	881.5	5.04
n5	5 MHz	TM1.1	891.5	5.08

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM3p1	871.5	5.05
n5	5 MHz	TM3p1	881.5	5.05
n5	5 MHz	TM3p1	891.5	5.04

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM3p1a	871.5	5.05
n5	5 MHz	TM3p1a	881.5	5.07
n5	5 MHz	TM3p1a	891.5	5.07

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM3p3	871.5	5.08
n5	5 MHz	TM3p3	881.5	5.08
n5	5 MHz	TM3p3	891.5	5.08

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM1.1	874.0	10.13
n5	10 MHz	TM1.1	881.5	10.11
n5	10 MHz	TM1.1	889.0	10.09

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM3p1	874.0	10.09
n5	10 MHz	TM3p1	881.5	10.07
n5	10 MHz	TM3p1	889.0	10.11

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM3p1a	874.0	10.15
n5	10 MHz	TM3p1a	881.5	10.15
n5	10 MHz	TM3p1a	889.0	10.07

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM3p3	874.0	9.95
n5	10 MHz	TM3p3	881.5	9.95
n5	10 MHz	TM3p3	889.0	9.95

Band n5: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM1.1	871.5	5.04
n5	5 MHz	TM1.1	881.5	5.07
n5	5 MHz	TM1.1	891.5	5.05

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM3p1	871.5	5.04
n5	5 MHz	TM3p1	881.5	5.07
n5	5 MHz	TM3p1	891.5	5.08

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM3p1a	871.5	5.07
n5	5 MHz	TM3p1a	881.5	5.08
n5	5 MHz	TM3p1a	891.5	5.07

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	5 MHz	TM3p3	871.5	5.00
n5	5 MHz	TM3p3	881.5	5.08
n5	5 MHz	TM3p3	891.5	5.08

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM1.1	874.0	10.09
n5	10 MHz	TM1.1	881.5	10.15
n5	10 MHz	TM1.1	889.0	10.11

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM3p1	874.0	10.07
n5	10 MHz	TM3p1	881.5	10.05
n5	10 MHz	TM3p1	889.0	10.07

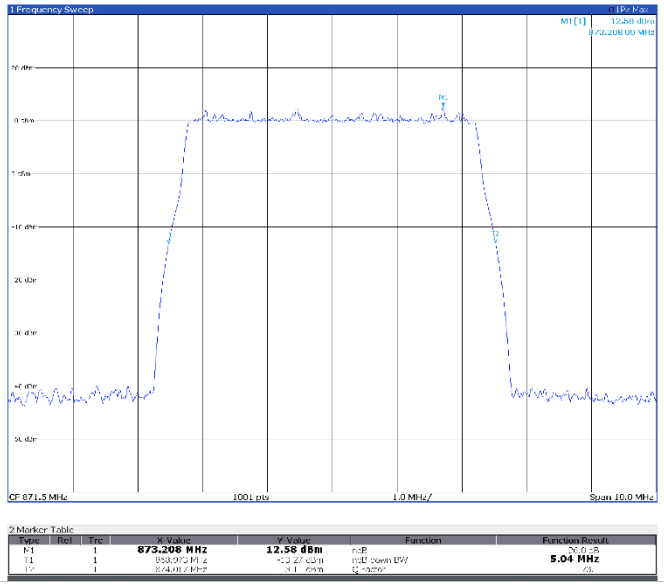
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM3p1a	874.0	10.15
n5	10 MHz	TM3p1a	881.5	10.11
n5	10 MHz	TM3p1a	889.0	10.13

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n5	10 MHz	TM3p3	874.0	9.93
n5	10 MHz	TM3p3	881.5	9.95
n5	10 MHz	TM3p3	889.0	9.97

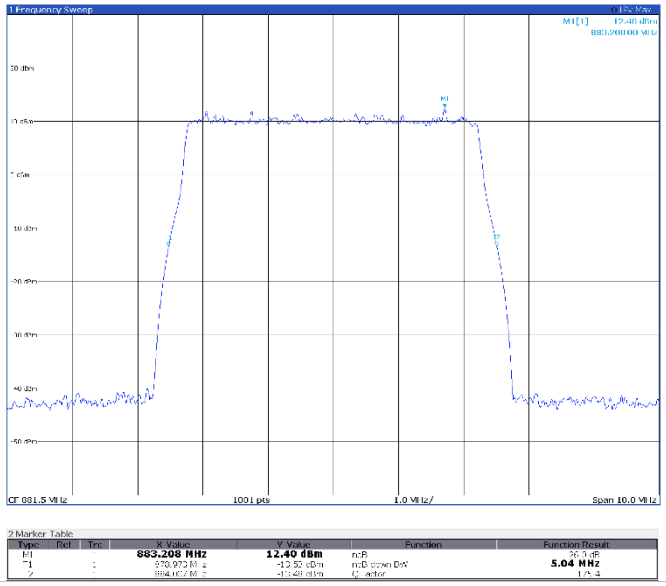
Antenna port 1

Band n5	**5 MHz**

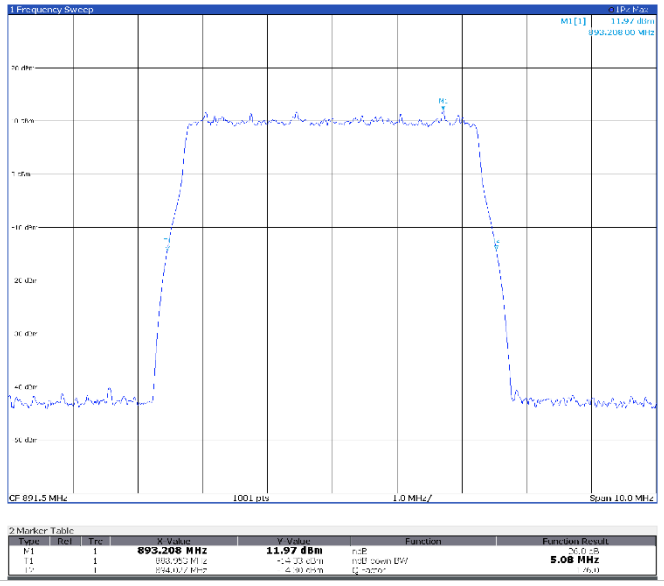
TM1.1, 5 MHz, low channel



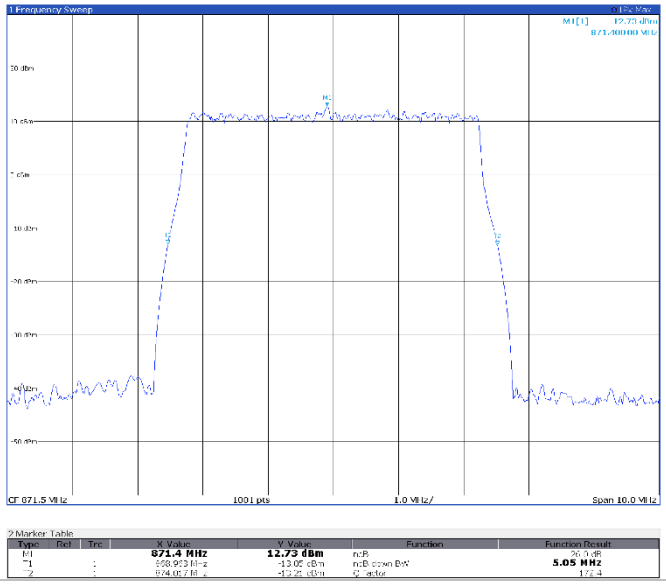
TM1.1, 5 MHz, mid channel



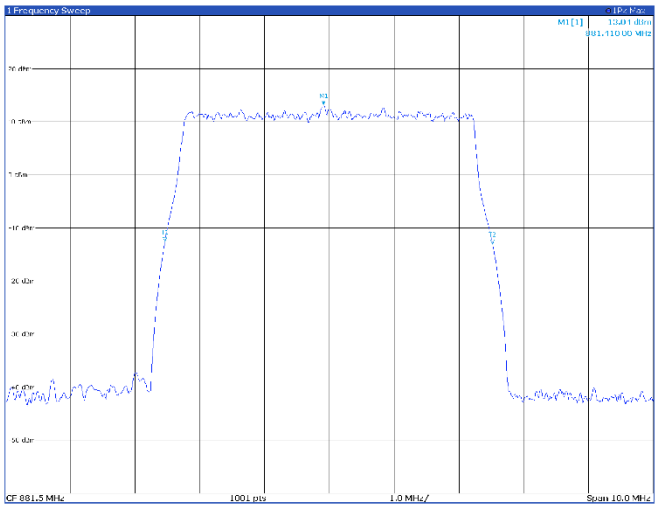
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



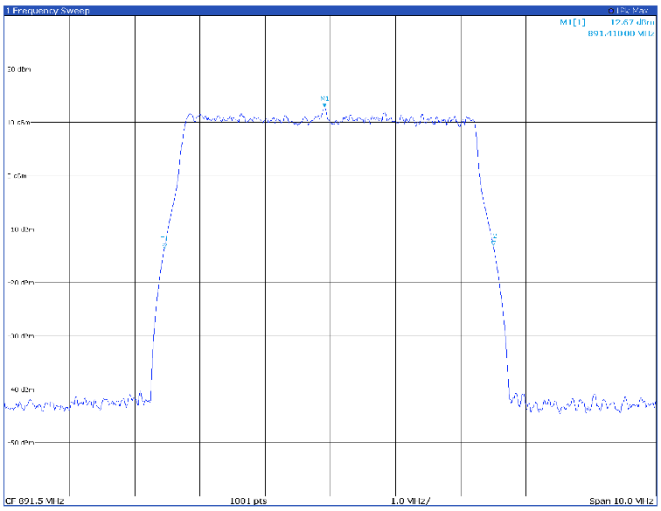
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**881.41 MHz**	**13.04 dBm**	ndB	26.0 dB
T1		1	878.953 MHz	-12.82 dBm	ndB down BW	**5.05 MHz**
T2		1	884.007 MHz	-13.04 dBm	Q-factor	174.4

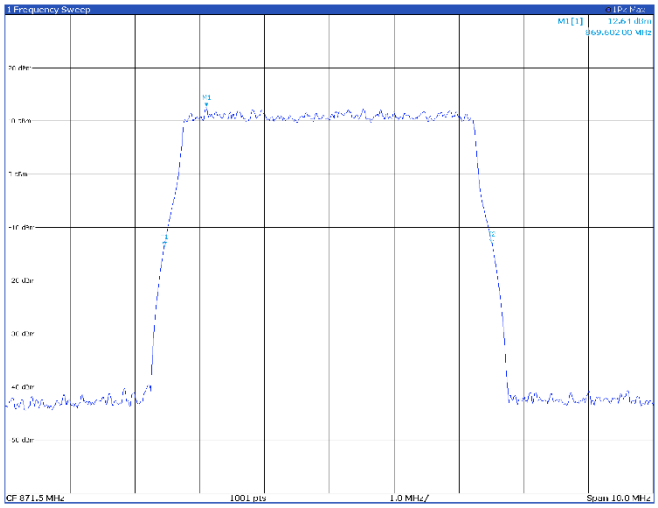
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**891.41 MHz**	**12.67 dBm**	ndB	26.0 dB
T1			888.953 MHz	-12.65 dBm	ndB down BW	**5.04 MHz**
T2			894.007 MHz	-13.10 dBm	Q-factor	177.7

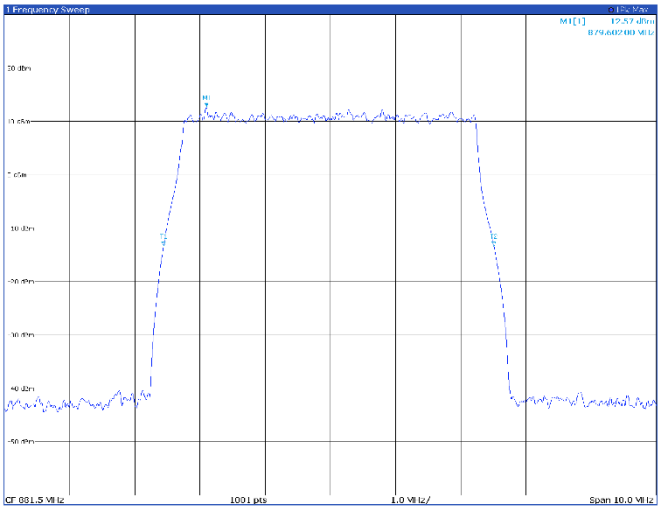
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**869.602 MHz**	**12.64 dBm**	ndB	26.0 dB
T1		1	866.953 MHz	-13.59 dBm	ndB down BW	**5.05 MHz**
T2		1	874.007 MHz	-13.04 dBm	Q-factor	172.0

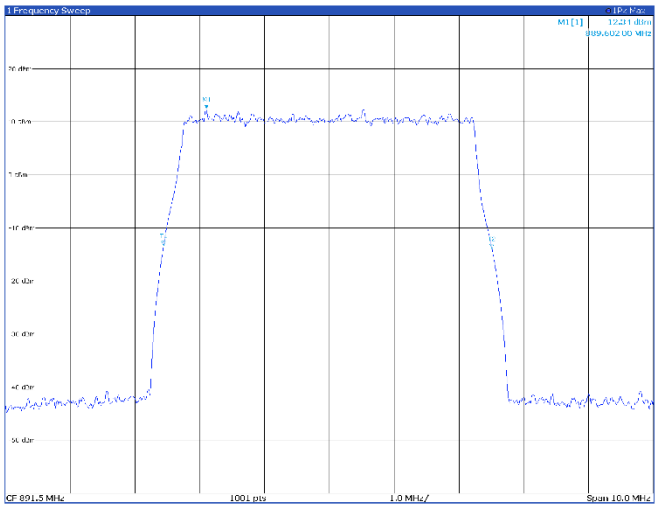
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**879.602 MHz**	**12.57 dBm**	ndB	26.0 dB
T1			878.953 MHz	-13.37 dBm	ndB down BW	**5.07 MHz**
T2			884.007 MHz	-13.25 dBm	Q-factor	173.7

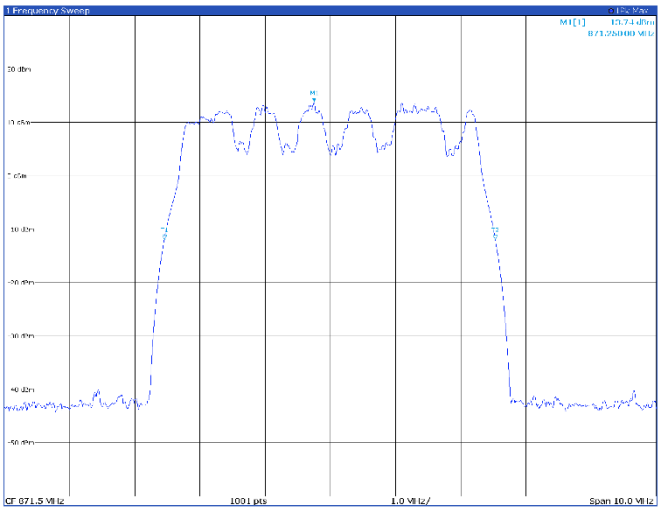
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**889.602 MHz**	**12.34 dBm**	n dB	26.0 dB
T1		1	888.943 MHz	-13.37 dBm	n dB down BW	**5.07 MHz**
T2		1	894.027 MHz	-14.90 dBm	Q-factor	175.6

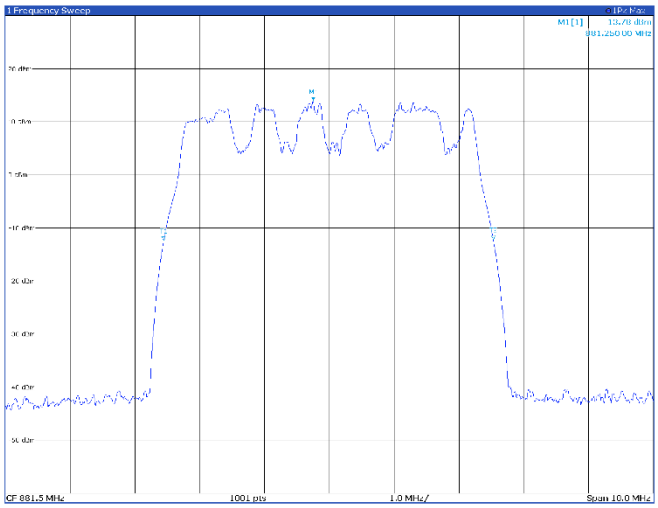
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**871.25 MHz**	**13.74 dBm**	n dB	26.0 dB
T1			868.953 MHz	-11.95 dBm	n dB down BW	**5.08 MHz**
T2			874.027 MHz	-11.92 dBm	Q-factor	171.7

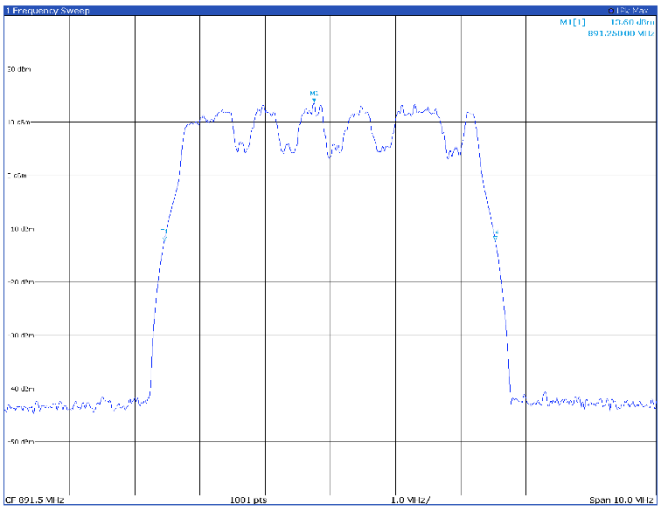
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**881.25 MHz**	**13.78 dBm**	n dB	26.0 dB
T1		1	878.943 MHz	-12.47 dBm	n dB down BW	**5.08 MHz**
T2		1	884.027 MHz	-12.77 dBm	Q-factor	173.3

TM3p3, 5 MHz, high channel

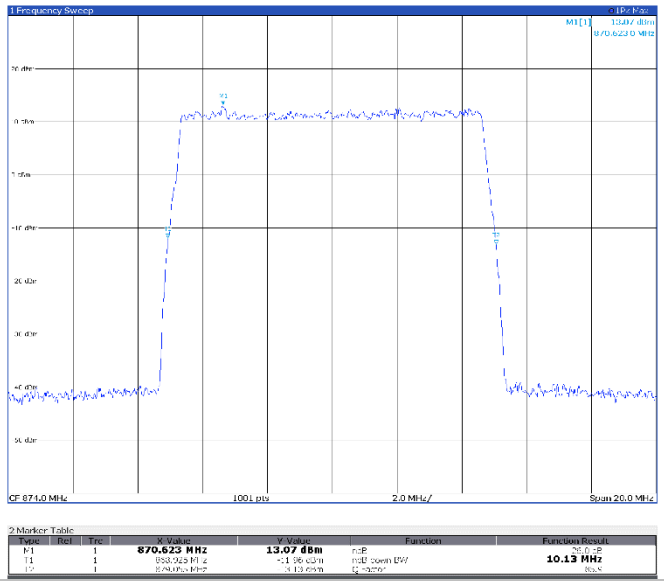


2 Marker Table

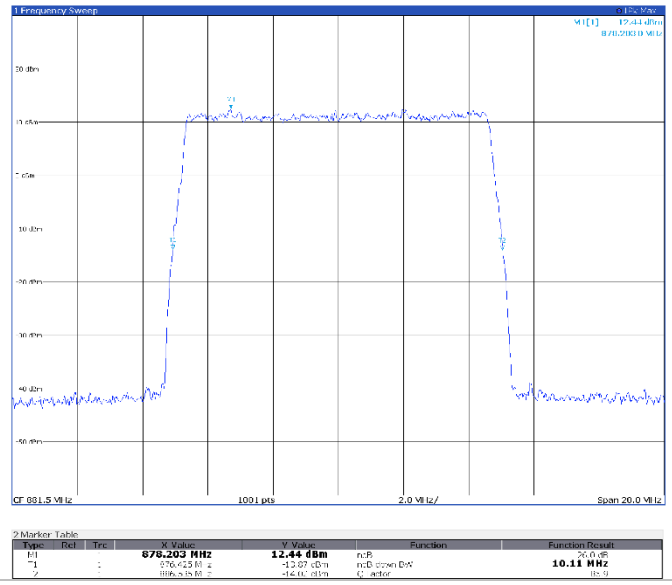
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**891.25 MHz**	**13.60 dBm**	n dB	26.0 dB
T1			888.953 MHz	-12.31 dBm	n dB down BW	**5.08 MHz**
T2			894.027 MHz	-12.22 dBm	Q-factor	175.5

Band n5 **10 MHz**

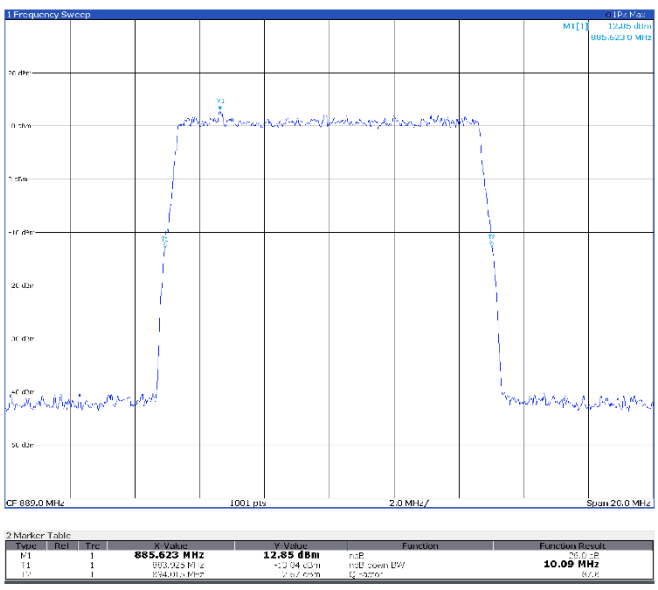
TM1.1, 10 MHz, low channel



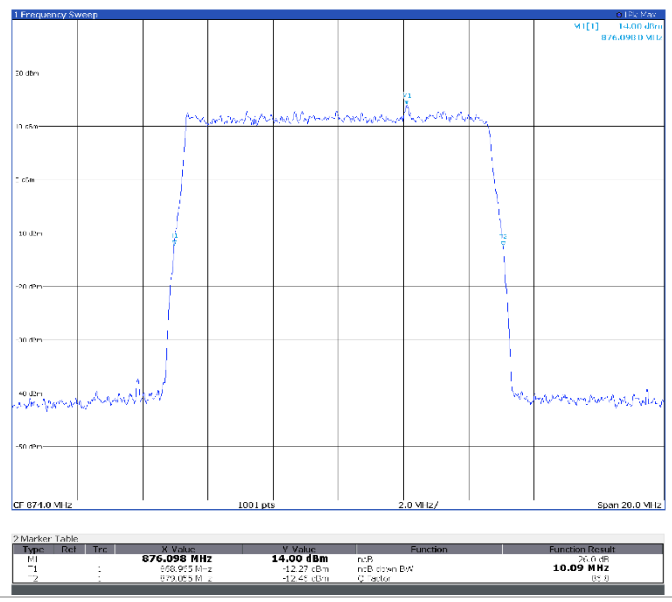
TM1.1, 10 MHz, mid channel



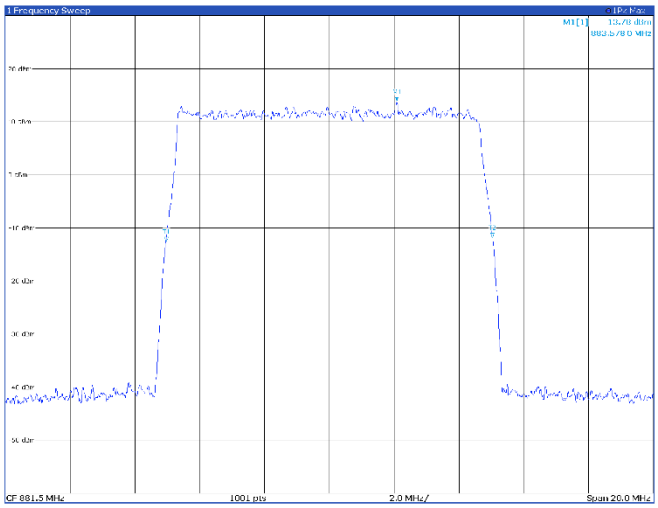
TM1.1, 10 MHz, high channel



TM3p1, 10 MHz, low channel



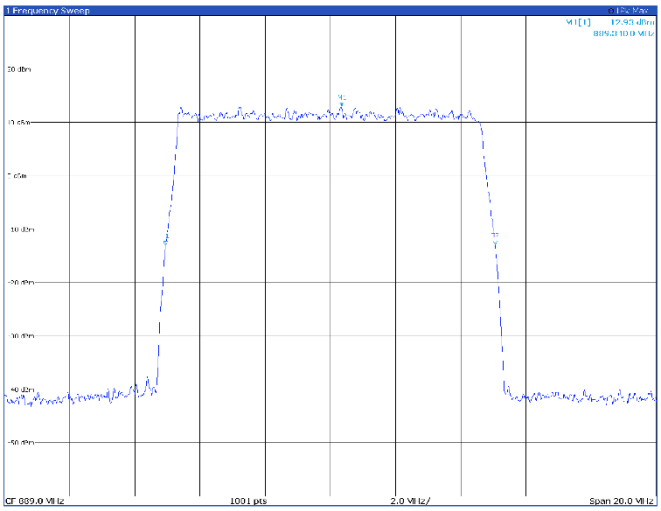
TM3p1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**883.578 MHz**	**13.78 dBm**	ndB	26.0 dB
T1		1	876.455 MHz	-12.52 dBm	ndB down BW	**10.07 MHz**
T2		1	886.[illegible] MHz	[illegible] dBm	Q-factor	87.7

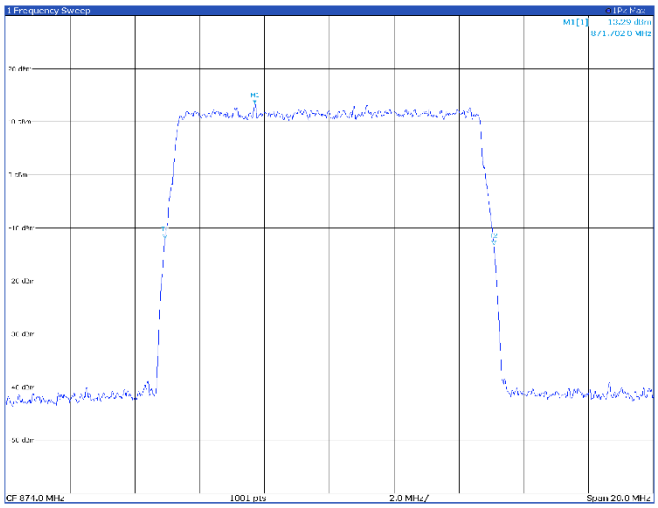
TM3p1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**889.34 MHz**	**12.93 dBm**	ndB	26.0 dB
T1			883.945 MHz	-13.05 dBm	ndB down BW	**10.11 MHz**
T2			894.05 MHz	-12.95 dBm	Q-factor	88.0

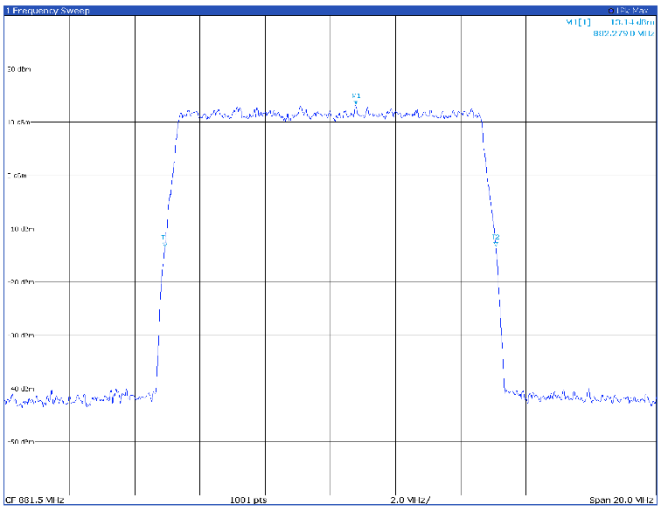
TM3p1a, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**871.702 MHz**	**13.29 dBm**	ndB	26.0 dB
T1		1	866.945 MHz	-12.98 dBm	ndB down BW	**10.15 MHz**
T2		1	[illegible] MHz	[illegible] dBm	Q-factor	85.9

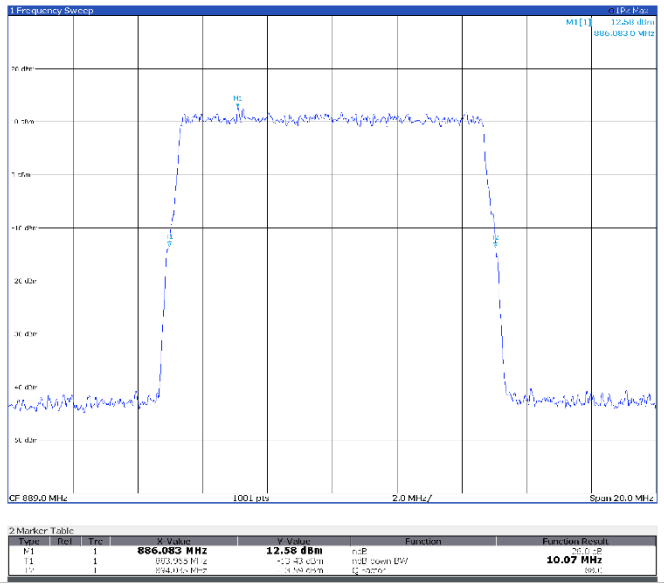
TM3p1a, 10 MHz, mid channel



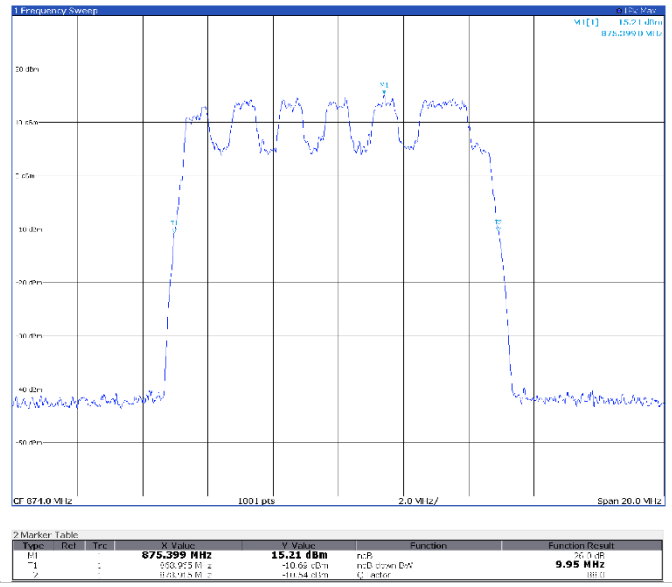
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**882.279 MHz**	**13.14 dBm**	ndB	26.0 dB
T1			876.425 MHz	-13.42 dBm	ndB down BW	**10.15 MHz**
T2			886.575 MHz	[illegible] dBm	Q-factor	86.9

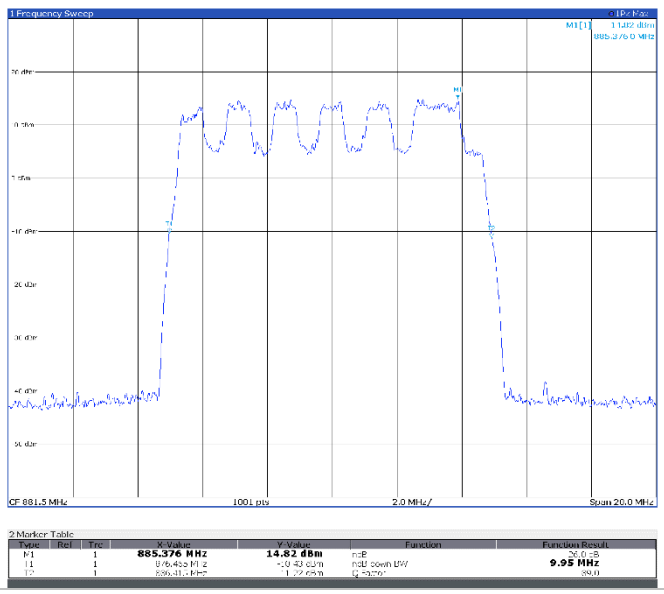
TM3p1a, 10 MHz, high channel



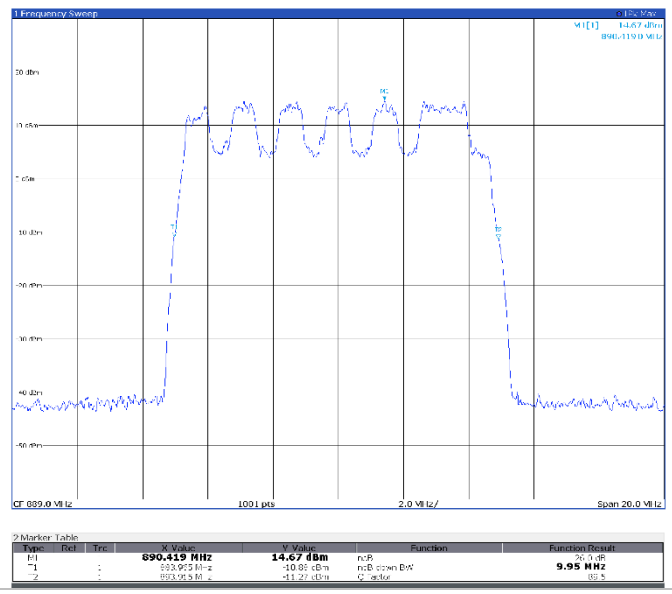
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



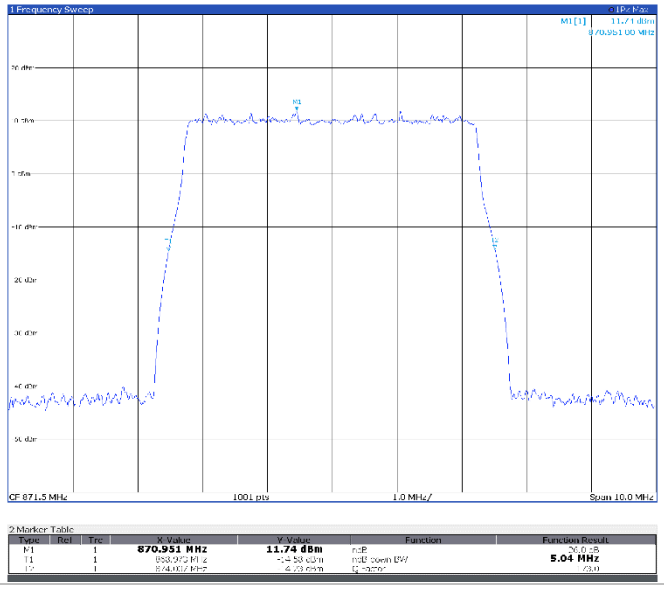
TM3p3, 10 MHz, high channel



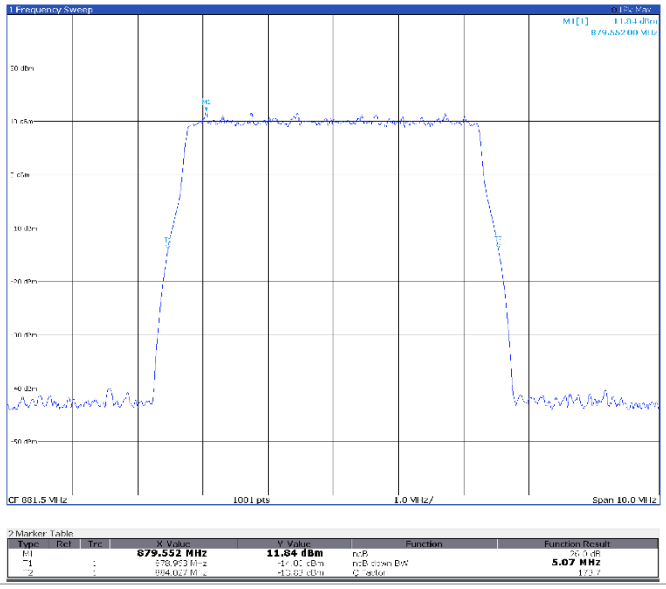
Antenna port 2

Band n5	5 MHz

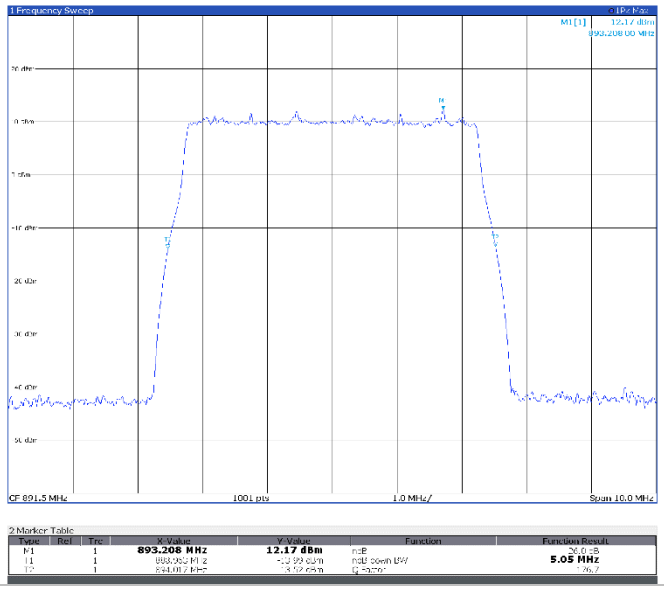
TM1.1, 5 MHz, low channel



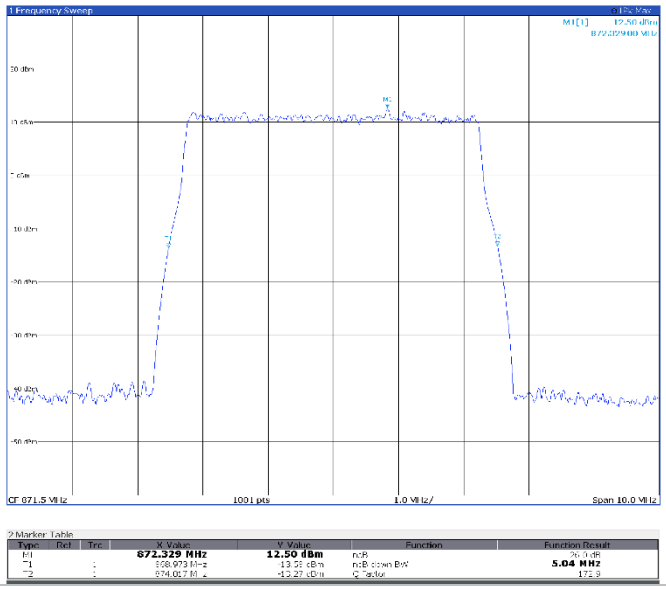
TM1.1, 5 MHz, mid channel



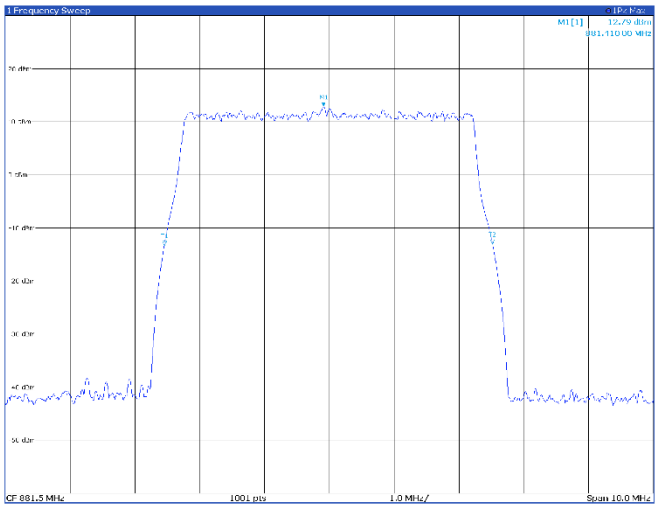
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



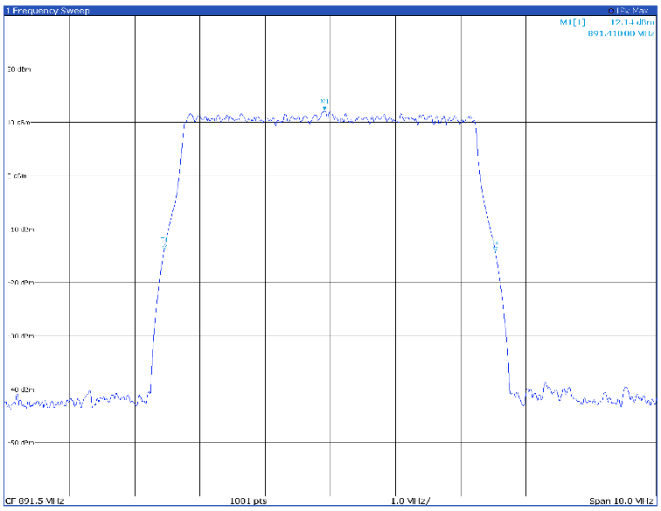
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**881.41 MHz**	**12.79 dBm**	ndB	26.0 dB
T1		1	878.953 MHz	-13.26 dBm	ndB down BW	**5.07 MHz**
T2		1	884.017 MHz	-14.04 dBm	Q factor	174.0

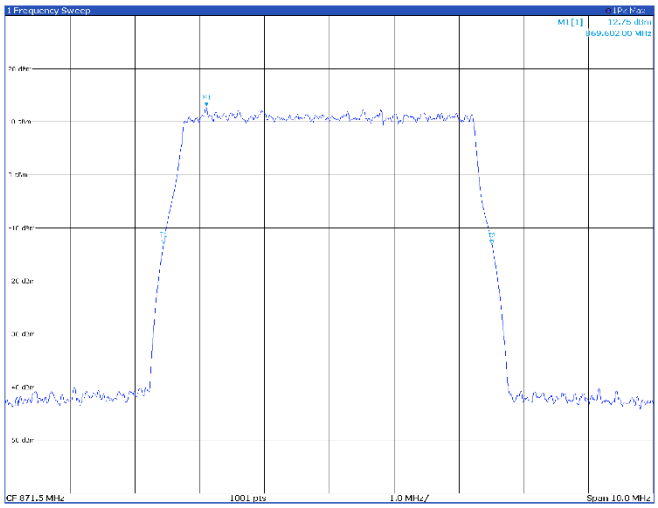
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**891.41 MHz**	**12.14 dBm**	ndB	26.0 dB
T1			888.953 MHz	-13.78 dBm	ndB down BW	**5.08 MHz**
T2			894.027 MHz	-14.55 dBm	Q factor	175.5

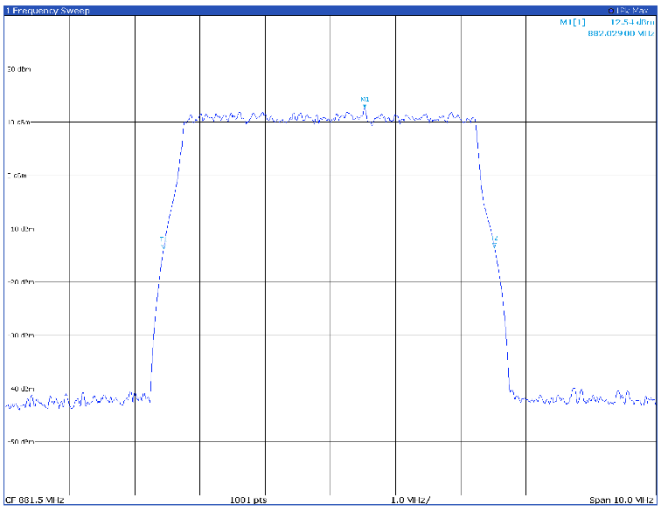
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**869.602 MHz**	**12.75 dBm**	ndB	26.0 dB
T1		1	868.945 MHz	-13.10 dBm	ndB down BW	**5.07 MHz**
T2		1	874.017 MHz	-14.14 dBm	Q factor	171.7

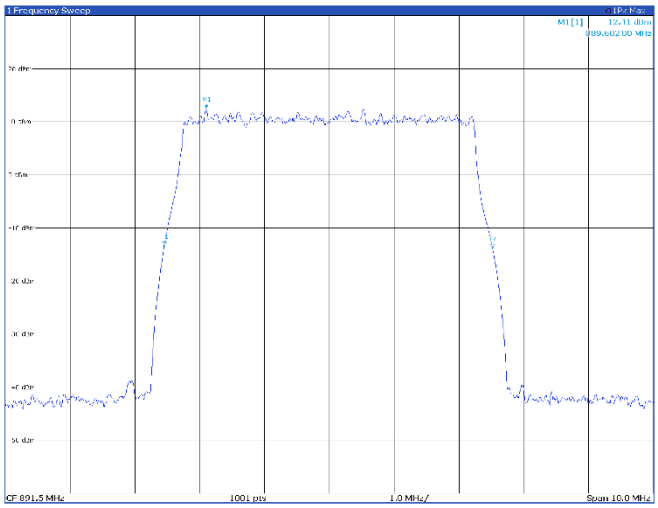
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**882.029 MHz**	**12.54 dBm**	ndB	26.0 dB
T1			878.919 MHz	-13.77 dBm	ndB down BW	**5.08 MHz**
T2			884.027 MHz	-14.51 dBm	Q factor	173.8

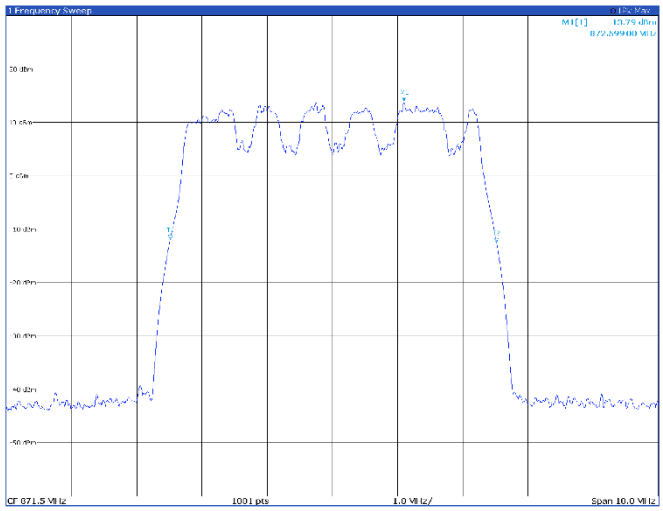
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**889.602 MHz**	**12.41 dBm**	ndB	26.0 dB
T1		1	888.953 MHz	-13.42 dBm	ndB down BW	**5.07 MHz**
T2		1	894.017 MHz	-13.88 dBm	Q Factor	175.6

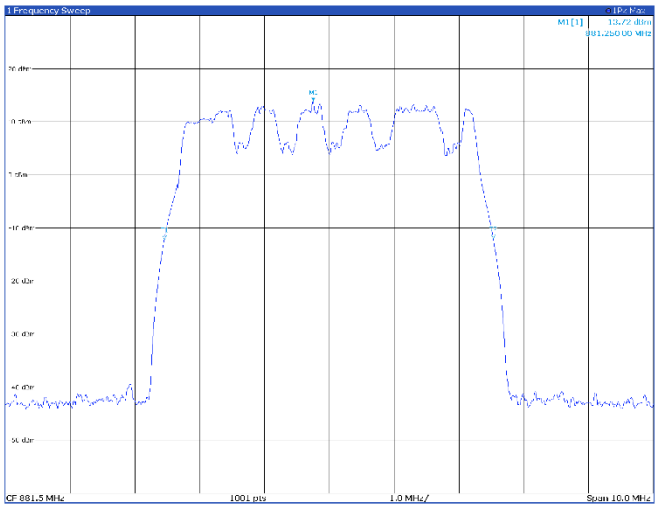
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**872.599 MHz**	**13.79 dBm**	ndB	26.0 dB
T1			869.012 MHz	-11.94 dBm	ndB down BW	**5.00 MHz**
T2			874.017 MHz	-12.54 dBm	Q Factor	174.3

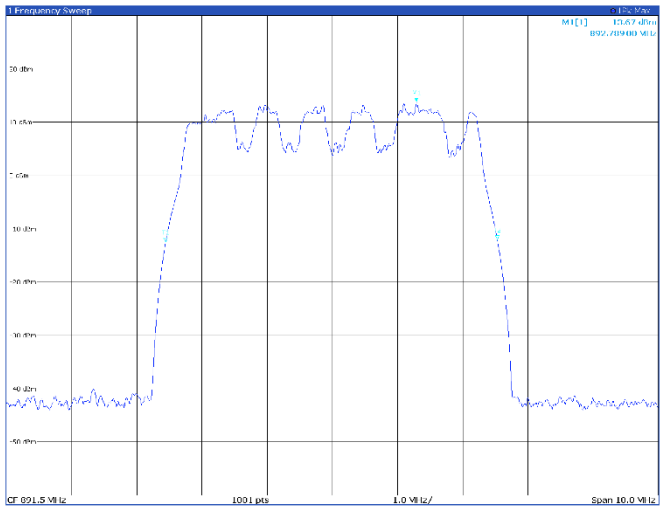
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**881.25 MHz**	**13.72 dBm**	ndB	26.0 dB
T1		1	878.953 MHz	-12.22 dBm	ndB down BW	**5.08 MHz**
T2		1	884.017 MHz	-12.88 dBm	Q Factor	173.6

TM3p3, 5 MHz, high channel

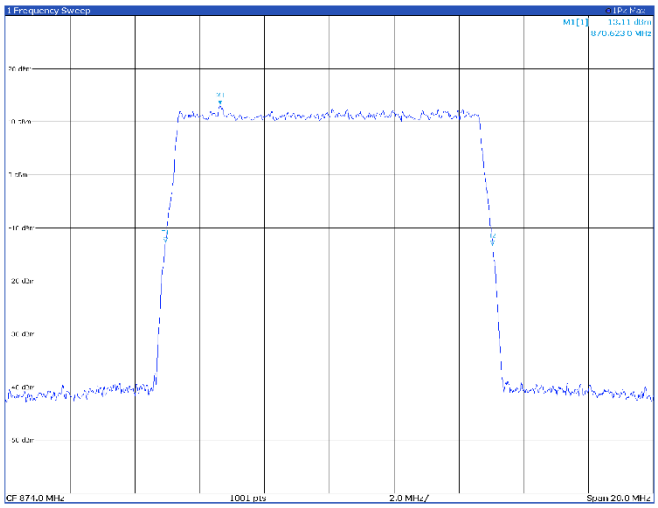


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**892.789 MHz**	**13.67 dBm**	ndB	26.0 dB
T1			888.953 MHz	-12.54 dBm	ndB down BW	**5.08 MHz**
T2			894.017 MHz	-12.04 dBm	Q Factor	175.6

Band n5 | **10 MHz**

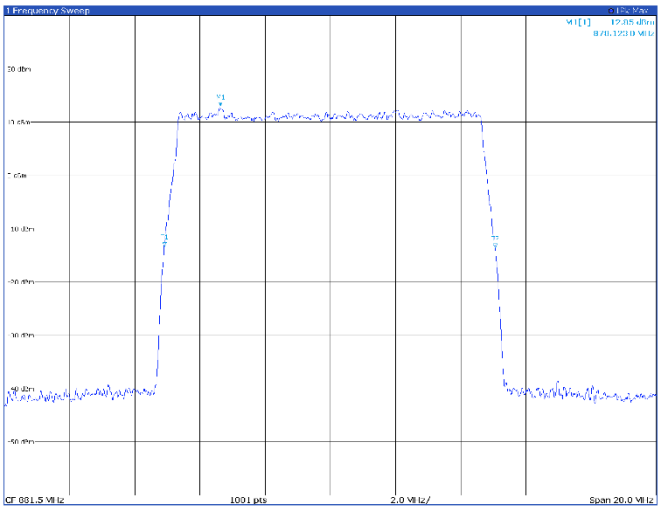
TM1.1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**870.623 MHz**	**13.11 dBm**	ndB	26.0 dB
T1		1	868.945 MHz	-12.67 dBm	ndB down BW	**10.09 MHz**
T2		1	879.035 MHz	-13.25 dBm	Q-Factor	86.3

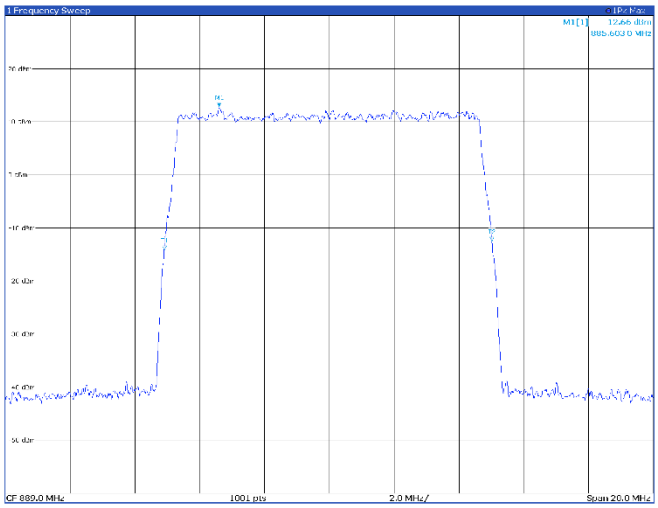
TM1.1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**878.123 MHz**	**12.85 dBm**	ndB	26.0 dB
T1			876.615 MHz	-13.30 dBm	ndB down BW	**10.15 MHz**
T2			[illegible]	[illegible]	Q-Factor	[illegible]

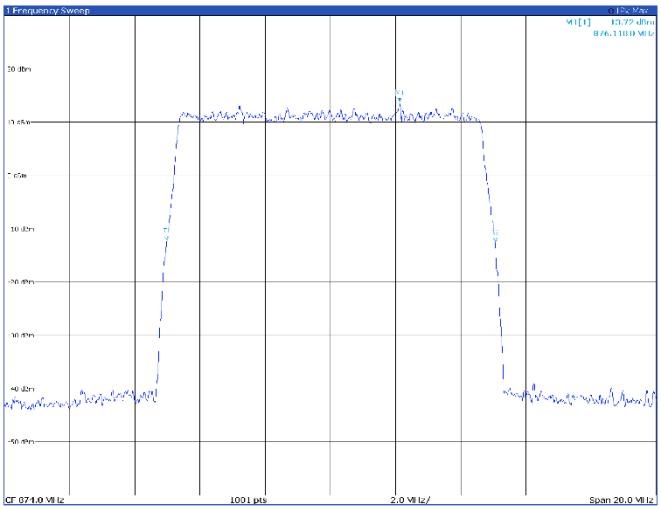
TM1.1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**885.603 MHz**	**12.66 dBm**	ndB	26.0 dB
T1		1	883.995 MHz	-14.40 dBm	ndB down BW	**10.11 MHz**
T2		1	894.085 MHz	-12.93 dBm	Q-Factor	87.6

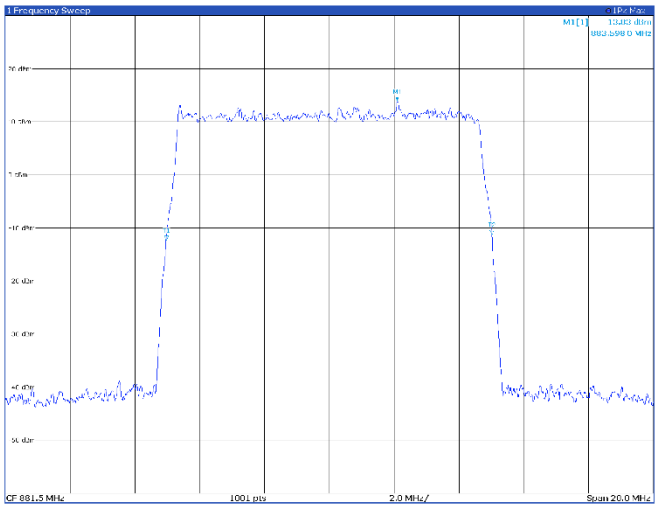
TM3p1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**876.118 MHz**	**13.72 dBm**	ndB	26.0 dB
T1			874.965 MHz	-12.11 dBm	ndB down BW	**10.07 MHz**
T2			[illegible]	[illegible]	Q-Factor	[illegible]

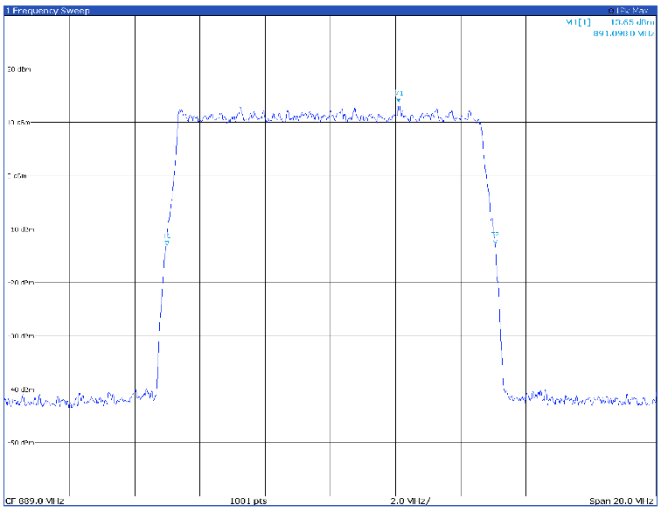
TM3p1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	883.598 MHz	13.83 dBm	ncB	26.0 dB
T1		1	876.455 MHz	-12.32 dBm	ncB down BW	10.05 MHz
T2		1	886.515 MHz	-1.23 dBm	Q factor	87.9

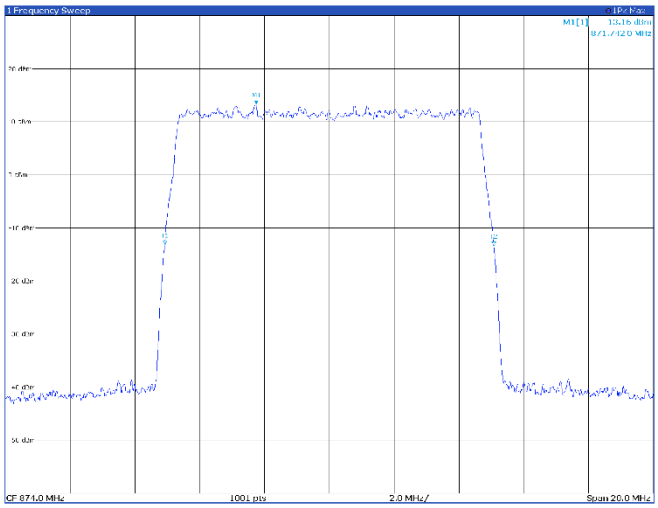
TM3p1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	891.098 MHz	13.65 dBm	ncB	26.0 dB
T1		1	883.965 MHz	-13.11 dBm	ncB down BW	10.07 MHz
T2		1	894.065 MHz	-12.78 dBm	Q factor	88.5

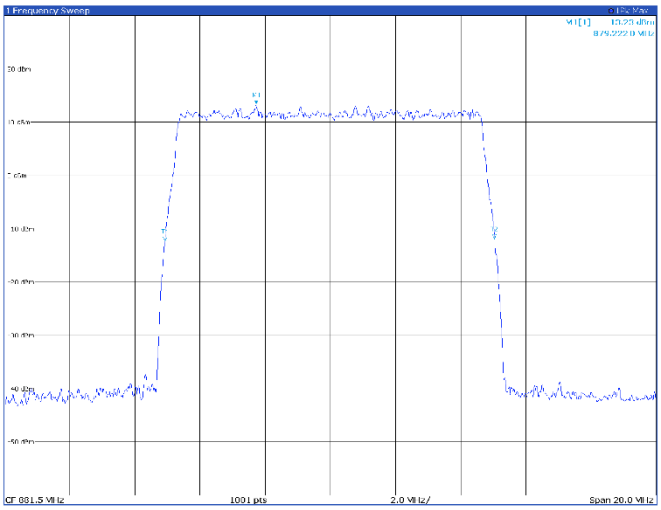
TM3p1a, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	871.742 MHz	13.16 dBm	ncB	26.0 dB
T1		1	863.925 MHz	-13.25 dBm	ncB down BW	10.15 MHz
T2		1	879.075 MHz	-13.41 dBm	Q factor	83.9

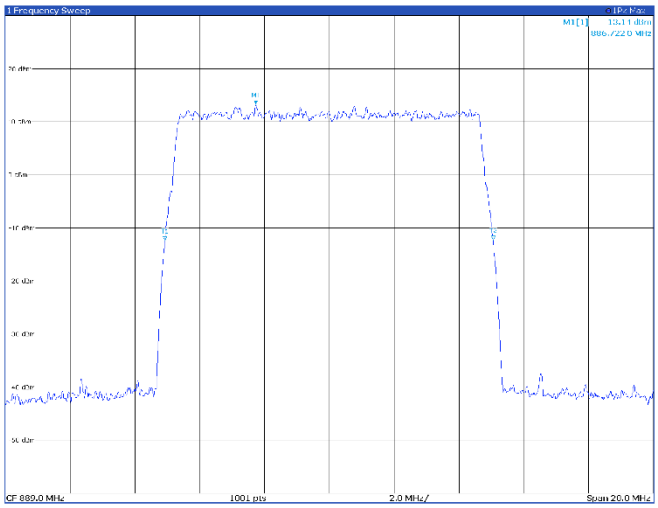
TM3p1a, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	879.222 MHz	13.23 dBm	ncB	26.0 dB
T1		1	876.425 MHz	-12.32 dBm	ncB down BW	10.11 MHz
T2		1	886.535 MHz	-11.88 dBm	Q factor	87.0

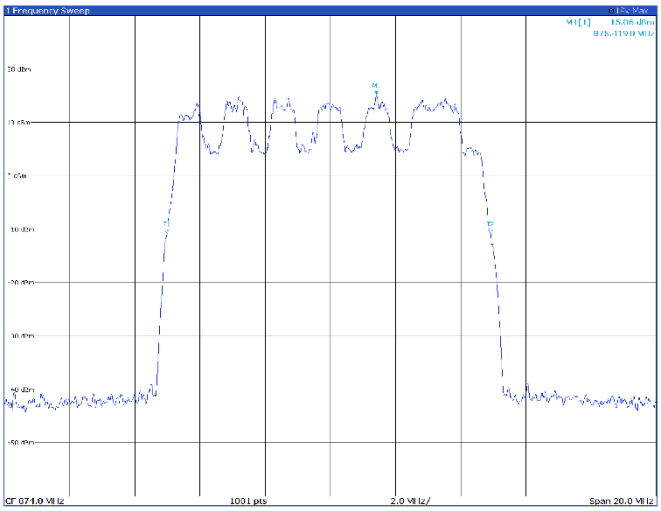
TM3p1a, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	886.722 MHz	13.14 dBm	ndB	26.0 dB
T1		1	893.925 MHz	-12.46 dBm	ndB down BW	10.13 MHz
T2		1	894.095 MHz	-2.37 dBm	Q-factor	87.6

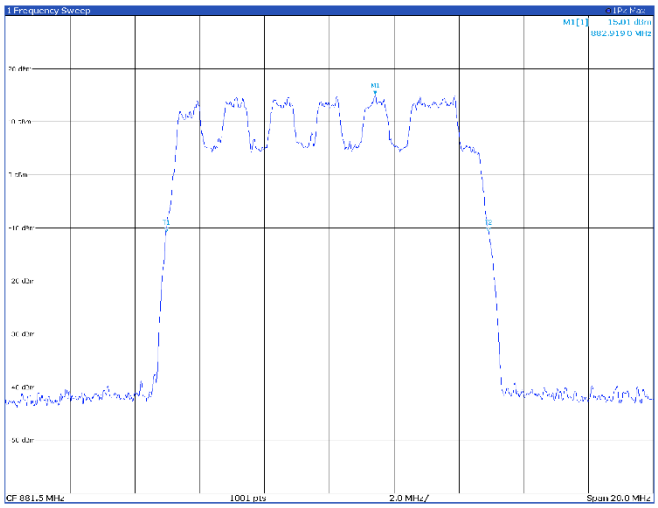
TM3p3, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			875.419 MHz	15.06 dBm	ndB	26.0 dB
T1			868.965 MHz	-10.82 dBm	ndB down BW	9.93 MHz
T2			878.915 MHz	-10.88 dBm	Q-factor	88.2

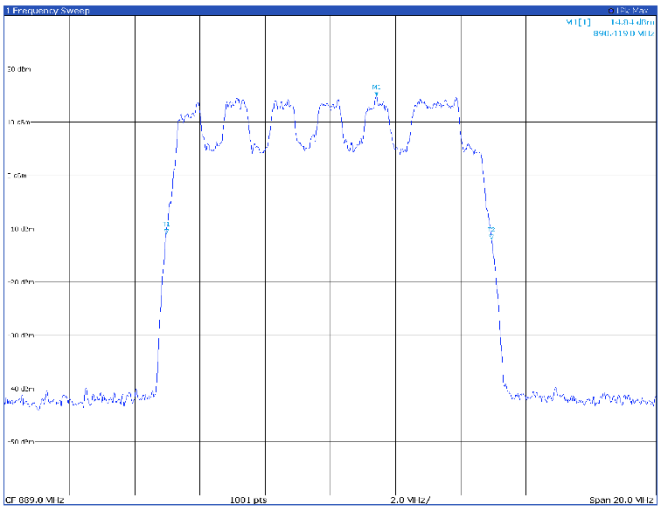
TM3p3, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	882.919 MHz	15.01 dBm	ndB	26.0 dB
T1		1	876.455 MHz	-10.77 dBm	ndB down BW	9.95 MHz
T2		1	886.415 MHz	-0.74 dBm	Q-factor	88.7

TM3p3, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			890.419 MHz	14.84 dBm	ndB	26.0 dB
T1			893.965 MHz	-10.99 dBm	ndB down BW	9.97 MHz
T2			893.915 MHz	-11.96 dBm	Q-factor	89.1

8.4 FCC 22.913 Effective radiated power limits

8.4.1 Definitions and limits

Licensees in the Cellular Radiotelephone Service are subject to the effective radiated power (ERP) limits and other requirements in this Section. See also § 22.169.

(a) Maximum ERP. The ERP of transmitters in the Cellular Radiotelephone Service must not exceed the limits in this section.

(1) Except as described in paragraphs (a)(2), (3), and (4) of this section, the ERP of base stations and repeaters must not exceed—

(i) 500 watts per emission; or

(ii) 400 watts/MHz (PSD) per sector.

(2) Except as described in paragraphs (a)(3) and (4) of this section, for systems operating in areas more than 72 kilometers (45 miles) from international borders that:

(i) Are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census; or

(ii) Extend coverage into Unserved Area on a secondary basis (see § 22.949), the ERP of base transmitters and repeaters must not exceed—

(A) 1000 watts per emission; or

(B) 800 watts/MHz (PSD) per sector.

(3) Provided that they also comply with paragraphs (b) and (c) of this section, licensees are permitted to operate their base transmitters and repeaters with an ERP greater than 400 watts/MHz (PSD) per sector, up to a maximum ERP of 1000 watts/MHz (PSD) per sector unless they meet the conditions in paragraph (a)(4) of this section.

(4) Provided that they also comply with paragraphs (b) and (c) of this section, licensees of systems operating in areas more than 72 kilometers (45 miles) from international borders that:

(i) Are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census; or

(ii) Extend coverage into Unserved Area on a secondary basis (see § 22.949), are permitted to operate base transmitters and repeaters with an ERP greater than 800 watts/MHz (PSD) per sector, up to a maximum of 2000 watts/MHz (PSD) per sector.

(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

§ 24.232 Power and antenna height limits.

(a)

(1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(2) Base stations with an emission bandwidth greater than 1 MHz are limited to **1640 watts/MHz** equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

8.4.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 31, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.4.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.2.4.5

Spectrum analyzer settings:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	>= 1.5* OBW
Detector mode	Peak
Trace mode	Max Hold

This test was made across the conducted port and using a sensor power. An offset of 30 dB was added to the measurement to compensate the loss of the external 30 dB attenuator. Interconnecting cable losses were included as a transducer factor in the spectrum analyzer.

8.4.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.4.5 Test data

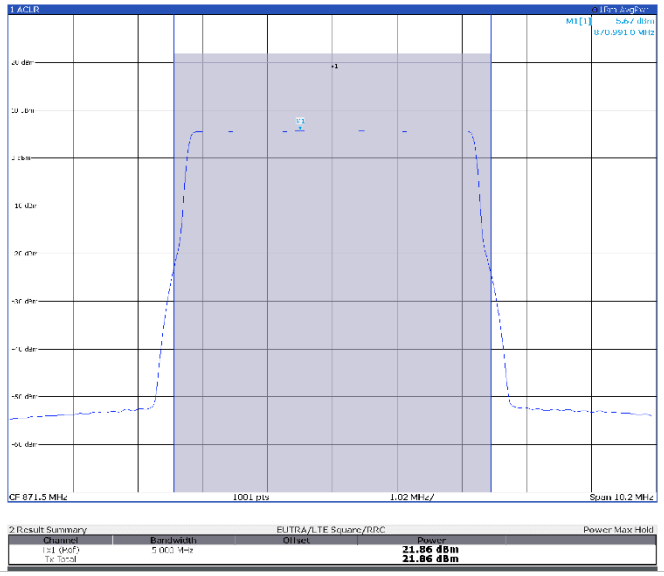
Band n5:

Modulation	OBW (MHz)	Frequency (MHz)	Measured Power Density (dBm/MHz) port 1	Measured Power Density (dBm/MHz) port 2	Antenna Gain Max (dBi)	Total EIRP Power Density (dBm/MHz)	Measured Power (dBm) port 1	Measured Power (dBm) port 2	Limits Power Density (dBm/MHz)	Margin (dB)
TM1.1	5	871.5	5.67	5.85	4.8	13.57	21.86	22.01	62.1	-48.53
TM3p1	5	871.5	5.34	5.79	4.8	13.38	22.14	21.99	62.1	-48.72
TM3p1a	5	871.5	5.84	5.83	4.8	13.65	21.95	22.04	62.1	-48.45
TM3p3	5	871.5	7.70	7.71	4.8	15.52	22.09	21.93	62.1	-46.58
TM1.1	5	881.5	5.66	5.58	4.8	13.43	22.06	21.82	62.1	-48.67
TM3p1	5	881.5	6.06	5.87	4.8	13.78	22.19	22.10	62.1	-48.32
TM3p1a	5	881.5	5.69	5.59	4.8	13.45	22.10	21.83	62.1	-48.65
TM3p3	5	881.5	7.76	7.65	4.8	15.52	22.12	21.88	62.1	-46.58
TM1.1	5	891.5	5.46	5.41	4.8	13.25	21.76	21.61	62.1	-48.85
TM3p1	5	891.5	5.44	5.63	4.8	13.35	21.54	21.77	62.1	-48.75
TM3p1a	5	891.5	5.41	5.47	4.8	13.25	21.74	21.62	62.1	-48.85
TM3p3	5	891.5	7.53	7.55	4.8	15.35	21.84	21.70	62.1	-46.75
TM1.1	10	874.0	2.86	2.74	4.8	10.61	22.25	22.08	62.1	-51.49
TM3p1	10	874.0	2.77	2.76	4.8	10.58	22.25	22.00	62.1	-51.52
TM3p1a	10	874.0	2.92	2.88	4.8	10.71	22.31	22.08	62.1	-51.39
TM3p3	10	874.0	5.27	5.24	4.8	13.07	22.38	22.17	62.1	-49.03
TM1.1	10	881.5	2.65	2.58	4.8	10.43	22.18	21.94	62.1	-51.67
TM3p1	10	881.5	2.70	2.71	4.8	10.52	22.21	21.90	62.1	-51.58
TM3p1a	10	881.5	2.92	2.80	4.8	10.67	22.27	21.99	62.1	-51.43
TM3p3	10	881.5	5.17	5.10	4.8	12.95	22.32	22.07	62.1	-49.15
TM1.1	10	889.0	2.37	2.49	4.8	10.24	21.75	21.81	62.1	-51.86
TM3p1	10	889.0	2.51	2.53	4.8	10.33	21.98	21.83	62.1	-51.77
TM3p1a	10	889.0	2.67	2.75	4.8	10.52	22.06	21.94	62.1	-51.58
TM3p3	10	889.0	4.85	4.90	4.8	12.69	22.07	21.92	62.1	-49.41

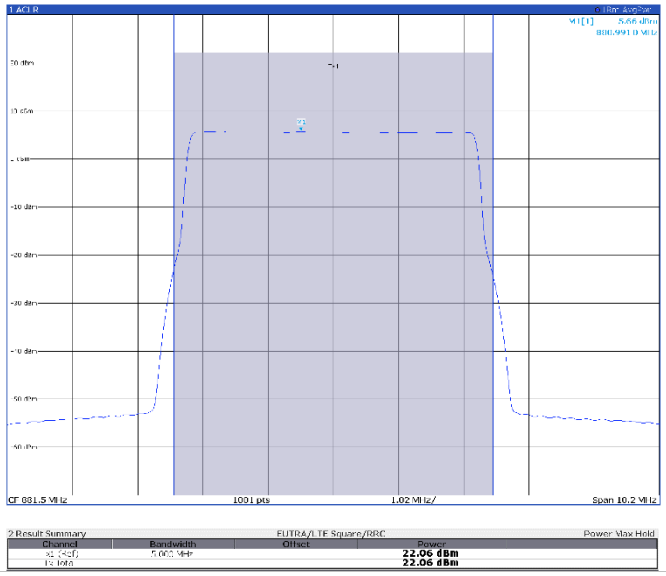
Antenna port 1

Band n5	5 MHz

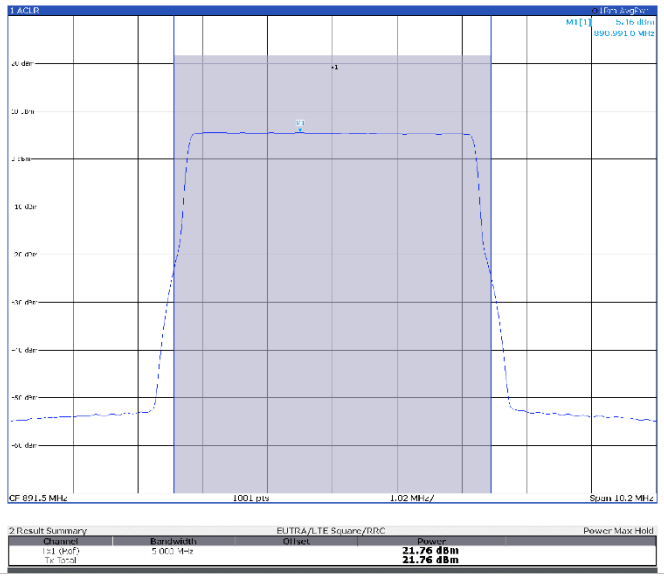
TM1.1, 5 MHz, low channel



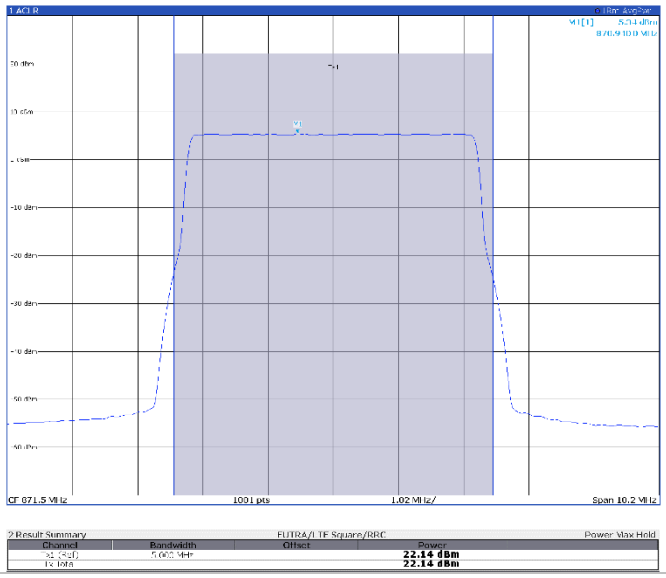
TM1.1, 5 MHz, mid channel



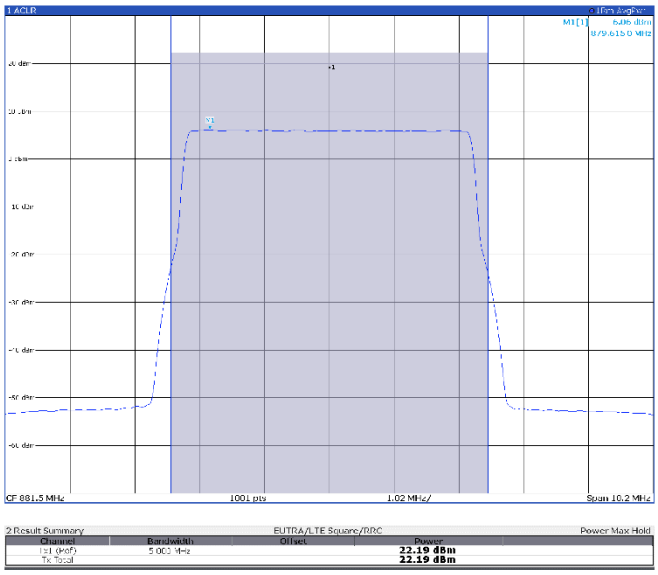
TM1.1, 5 MHz, high channel



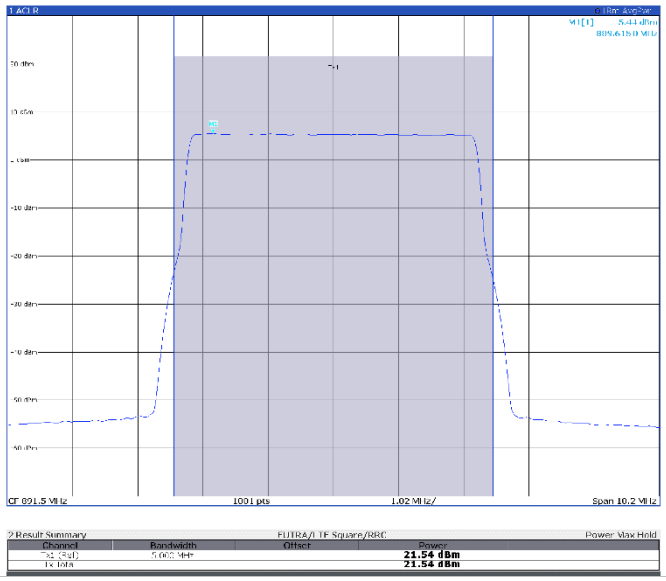
TM3p1, 5 MHz, low channel



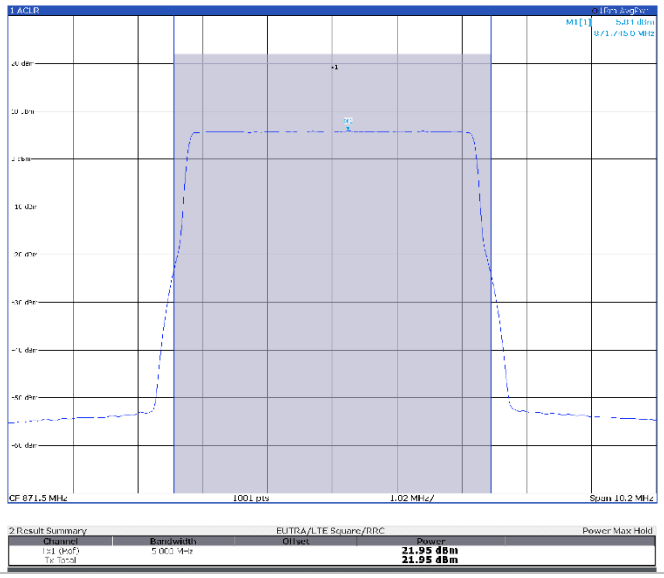
TM3p1, 5 MHz, mid channel



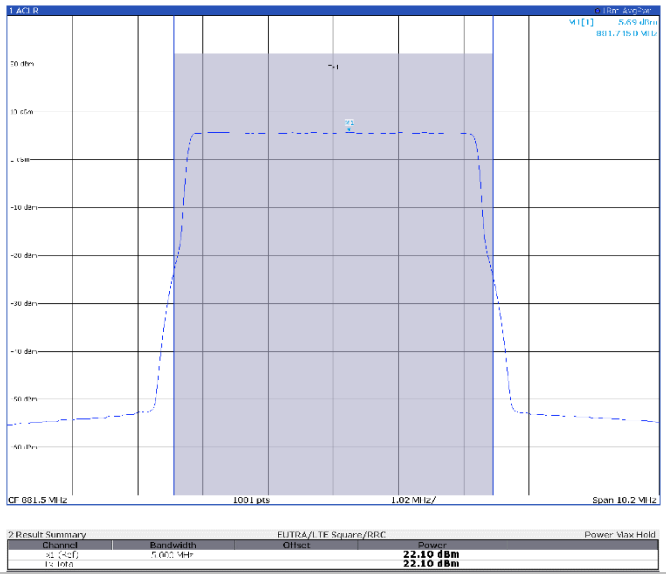
TM3p1, 5 MHz, high channel



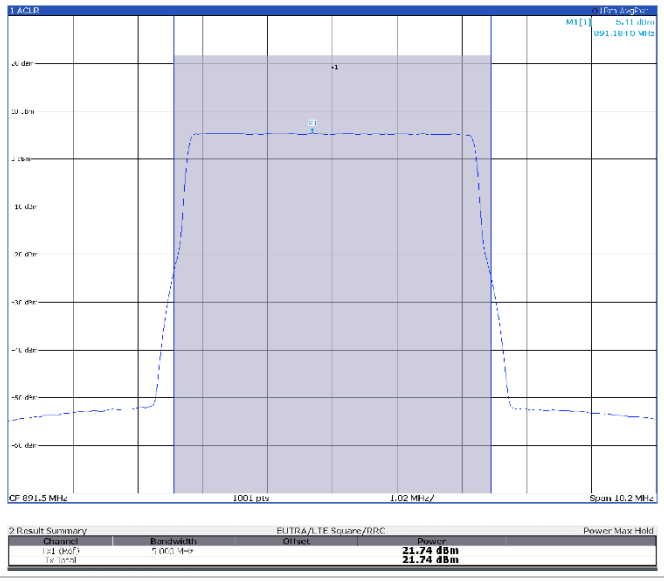
TM3p1a, 5 MHz, low channel



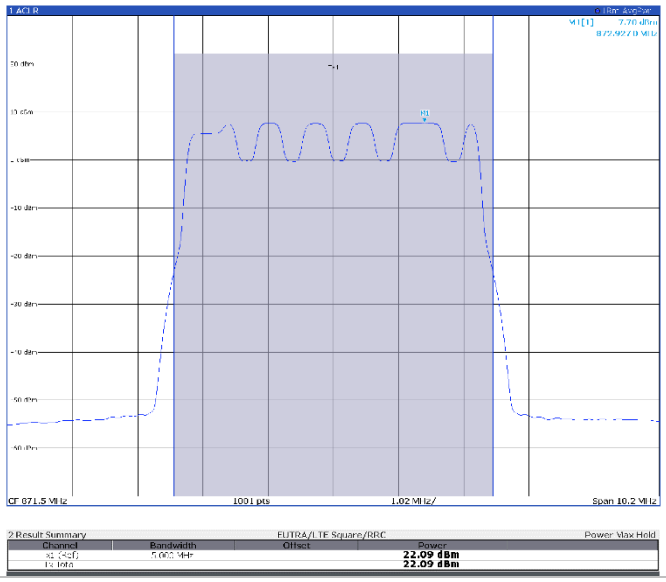
TM3p1a, 5 MHz, mid channel



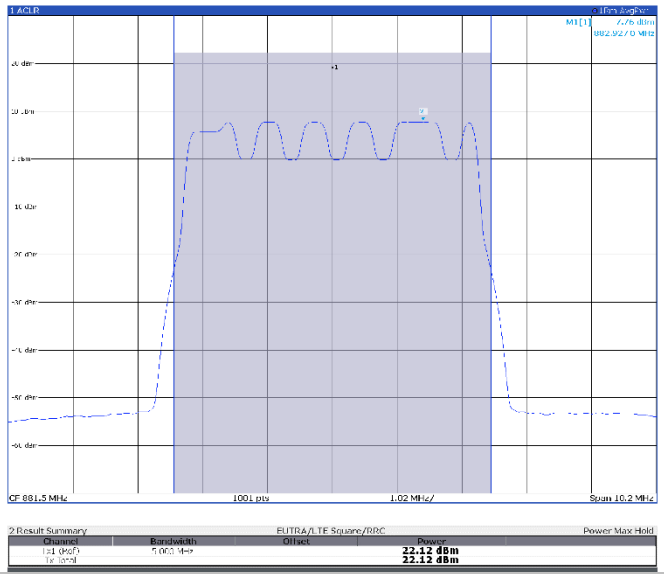
TM3p1a, 5 MHz, high channel



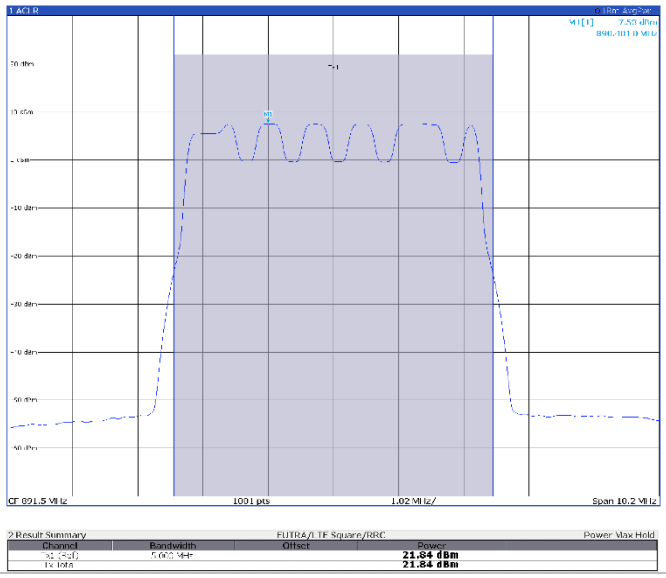
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel

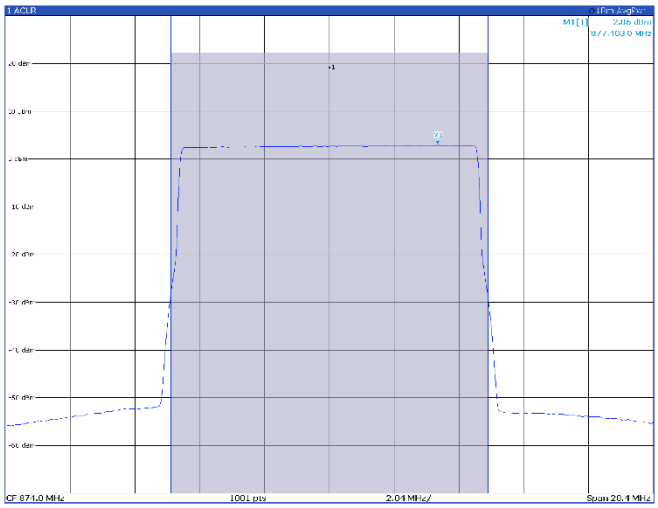


TM3p3, 5 MHz, high channel



Band n5 | **10 MHz**

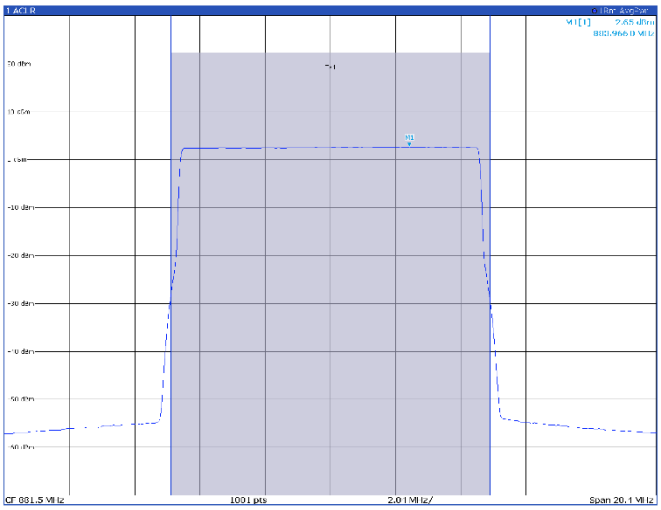
TM1.1, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ist (Ref)	10.000 MHz		**22.25 dBm**
Tx Total			**22.25 dBm**

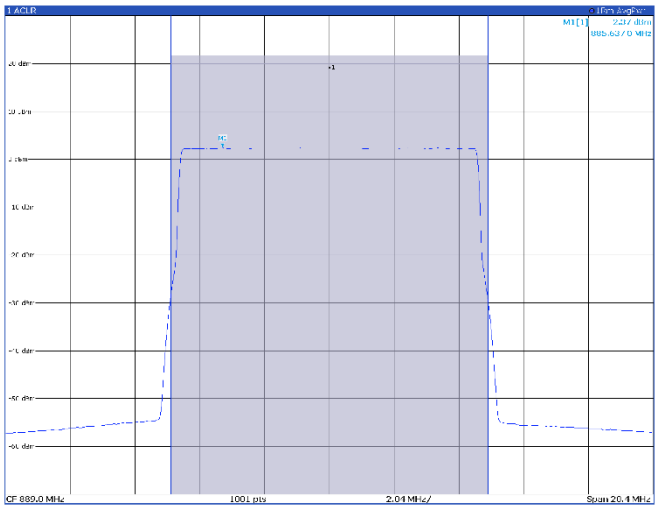
TM1.1, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ist (Ref)	10.000 MHz		**22.18 dBm**
Tx Total			**22.18 dBm**

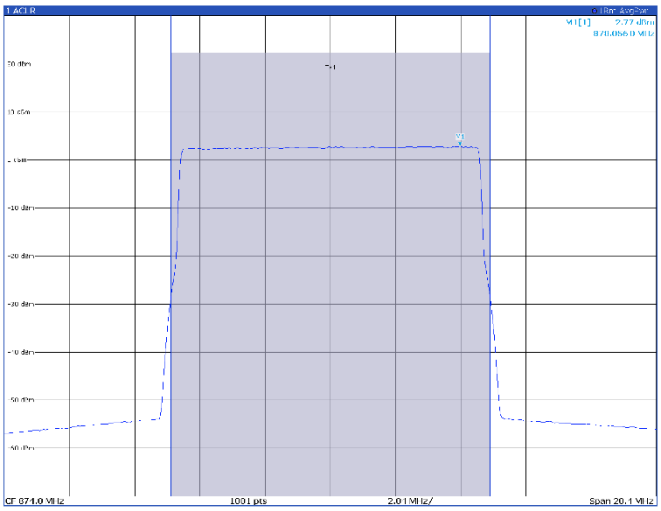
TM1.1, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ist (Ref)	10.000 MHz		**21.75 dBm**
Tx Total			**21.75 dBm**

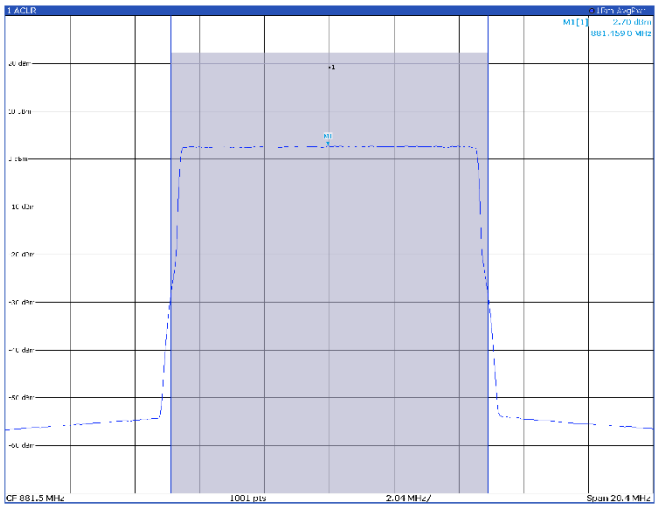
TM3p1, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ist (Ref)	10.000 MHz		**22.25 dBm**
Tx Total			**22.25 dBm**

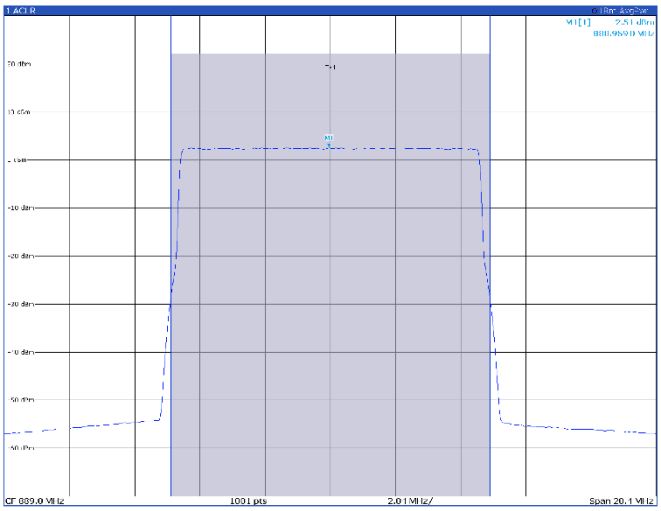
TM3p1, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (Ref)	10.000 MHz		22.21 dBm
Tx Total			22.21 dBm

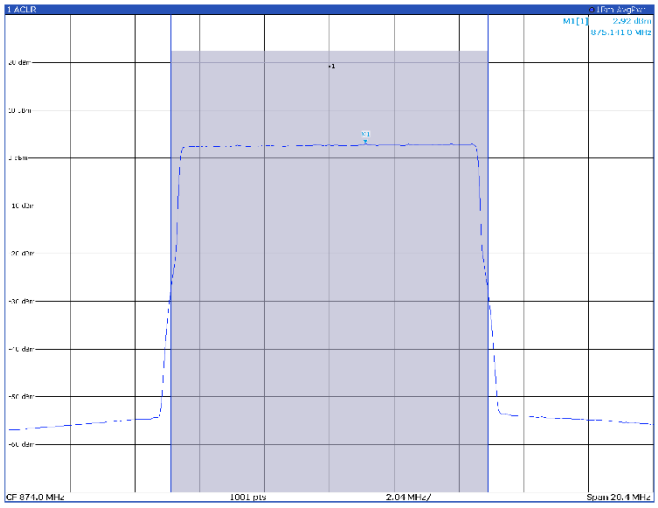
TM3p1, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (Ref)	10.000 MHz		21.98 dBm
Tx Total			21.98 dBm

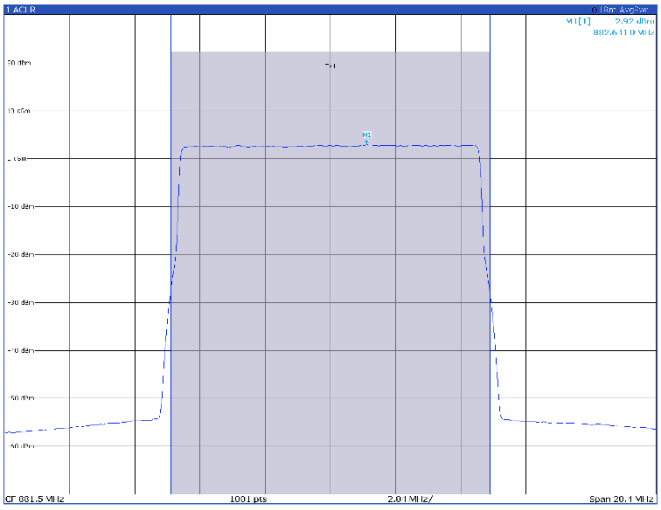
TM3p1a, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (Ref)	10.000 MHz		22.31 dBm
Tx Total			22.31 dBm

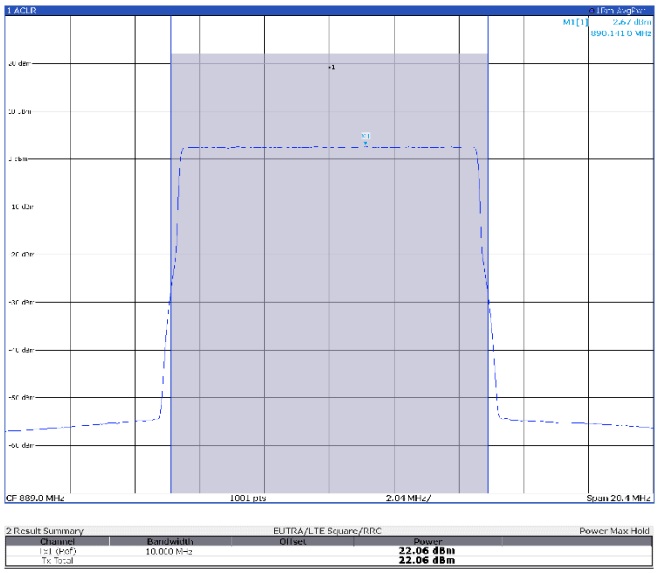
TM3p1a, 10 MHz, mid channel



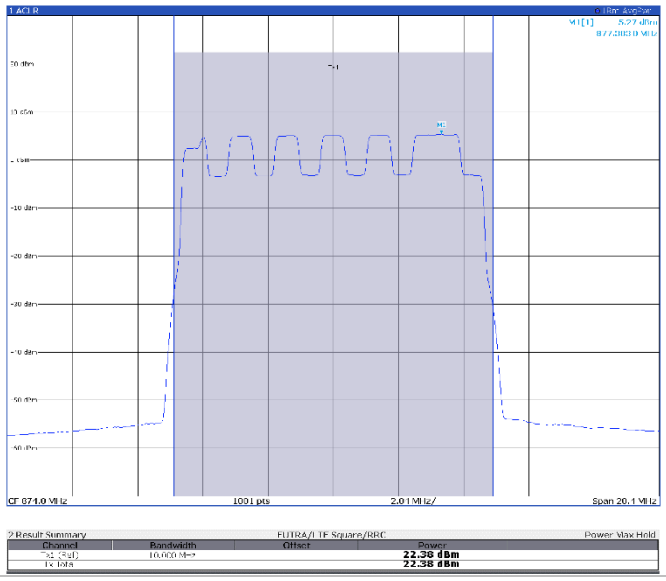
2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (Ref)	10.000 MHz		22.27 dBm
Tx Total			22.27 dBm

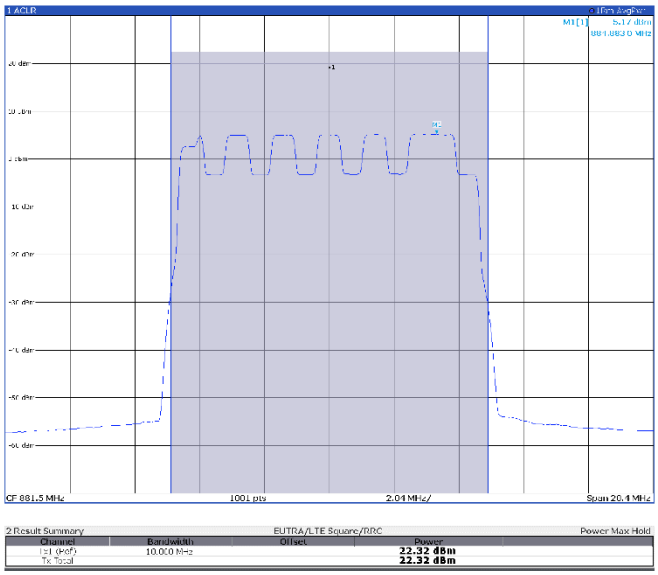
TM3p1a, 10 MHz, high channel



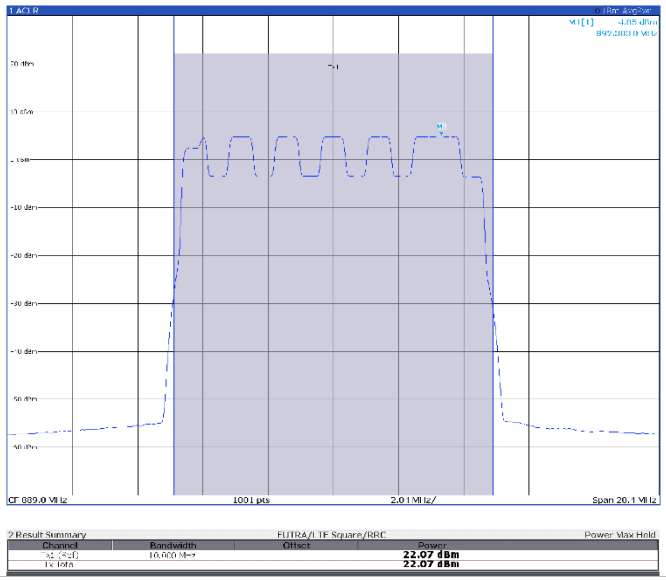
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



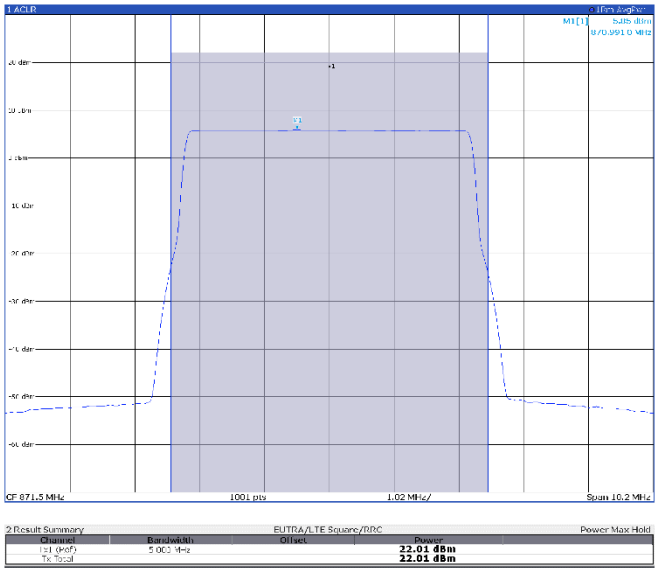
TM3p3, 10 MHz, high channel



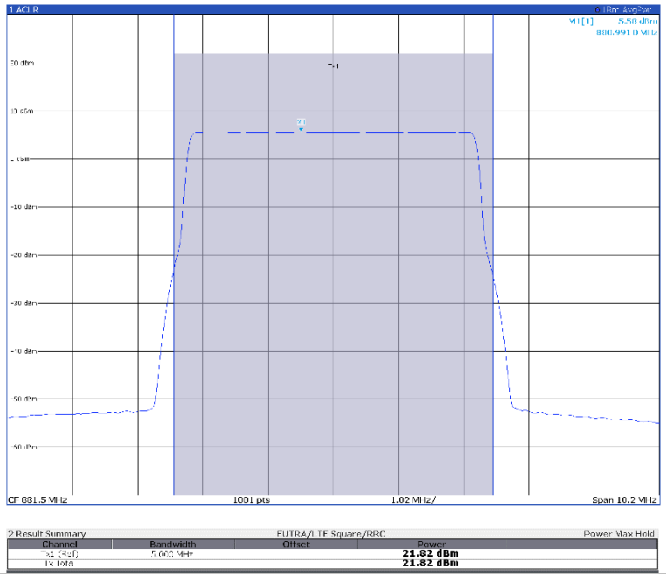
Antenna port 2

Band n5	5 MHz

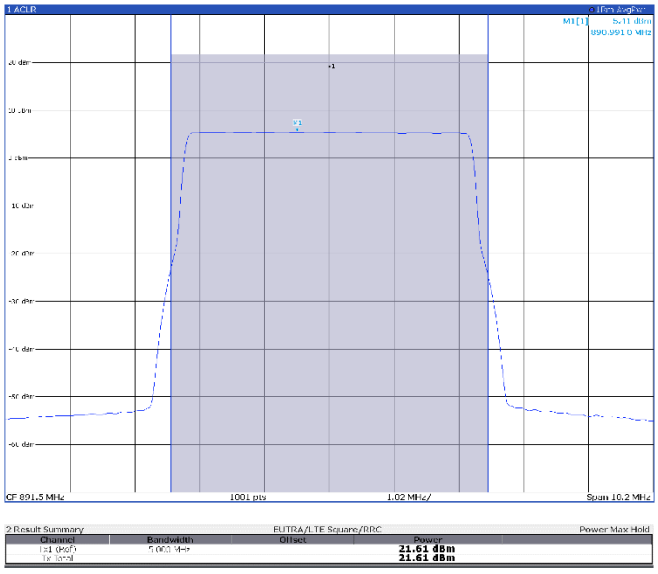
TM1.1, 5 MHz, low channel



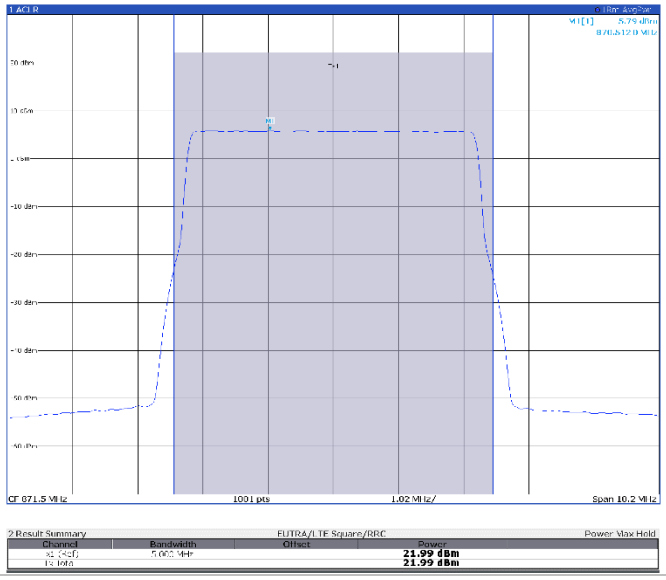
TM1.1, 5 MHz, mid channel



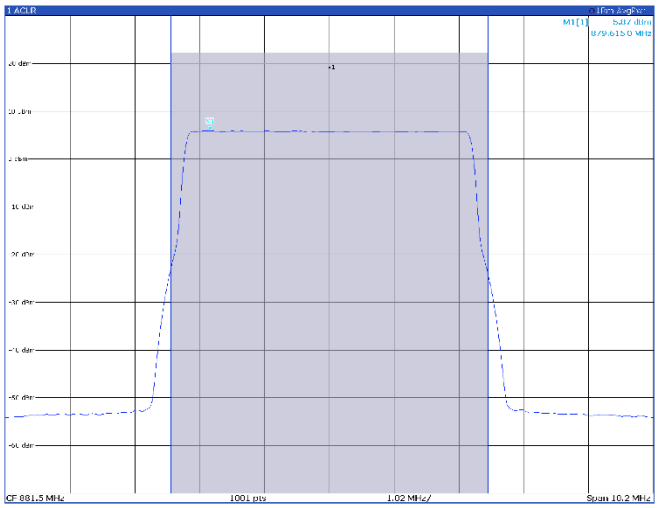
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



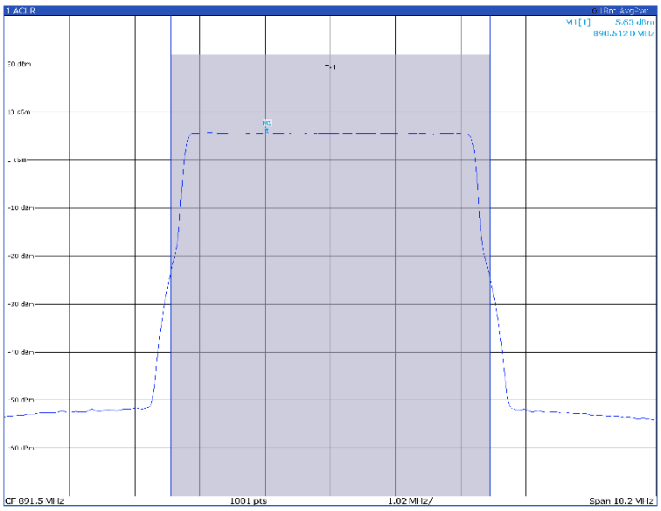
TM3p1, 5 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (MoP)	5.000 MHz		22.10 dBm
Tx Total			22.10 dBm

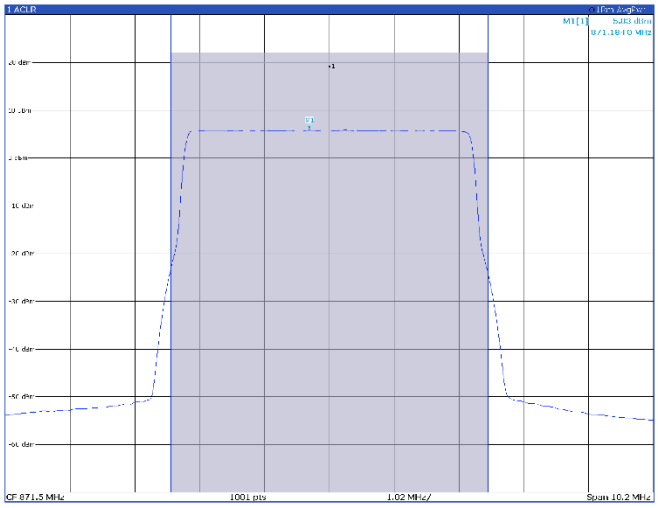
TM3p1, 5 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (MoP)	5.000 MHz		21.77 dBm
Tx Total			21.77 dBm

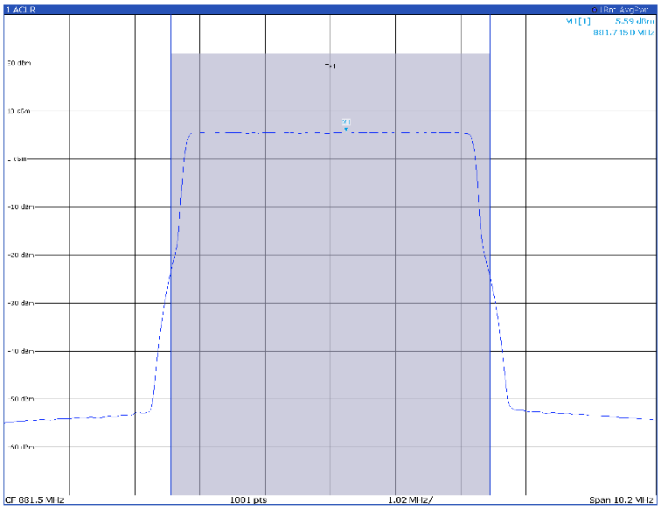
TM3p1a, 5 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (MoP)	5.000 MHz		22.04 dBm
Tx Total			22.04 dBm

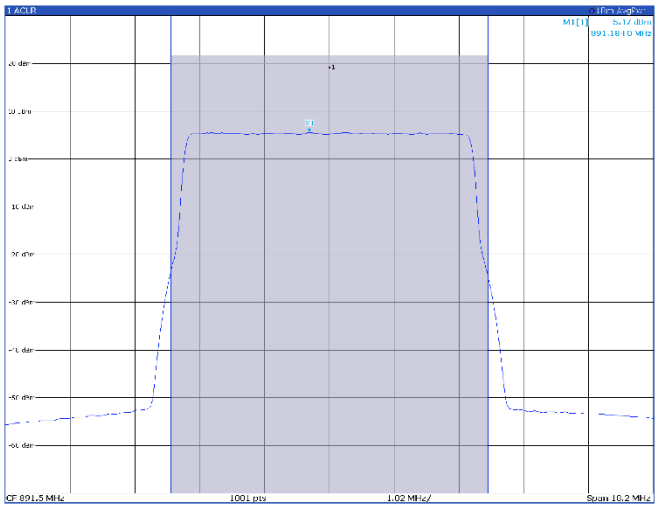
TM3p1a, 5 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (MoP)	5.000 MHz		21.83 dBm
Tx Total			21.83 dBm

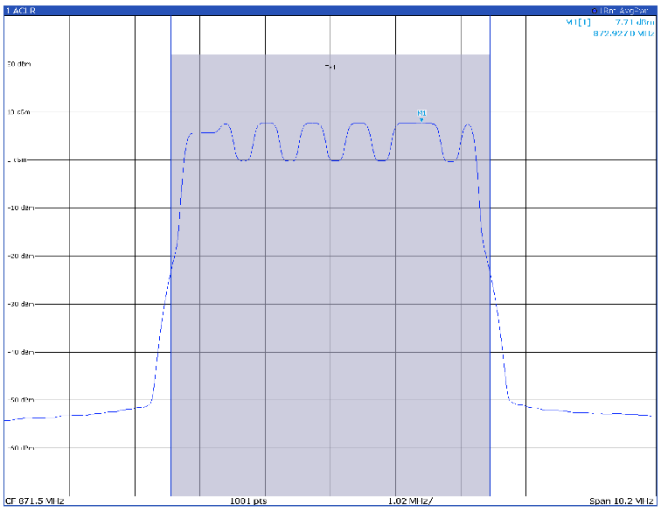
TM3p1a, 5 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
±1 (MoP)	5.000 MHz		21.62 dBm
Tx Total			21.62 dBm

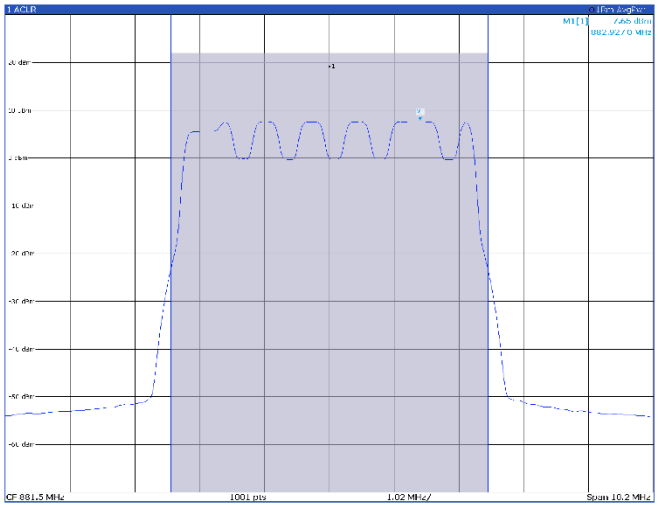
TM3p3, 5 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
±1 (MoP)	5.000 MHz		21.93 dBm
Tx Total			21.93 dBm

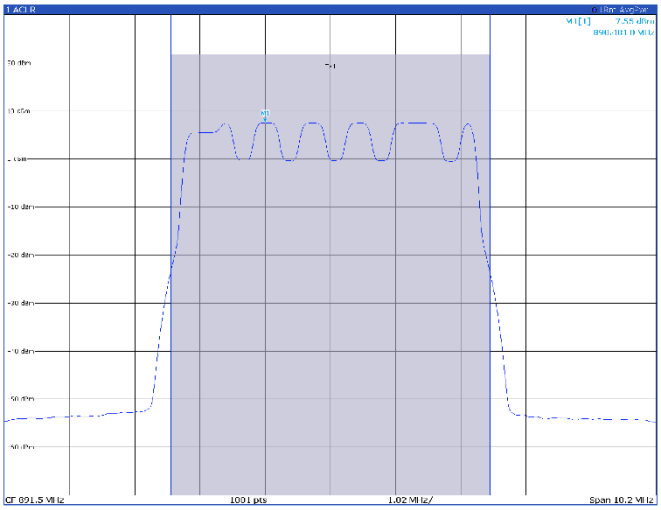
TM3p3, 5 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
±1 (MoP)	5.000 MHz		21.88 dBm
Tx Total			21.88 dBm

TM3p3, 5 MHz, high channel

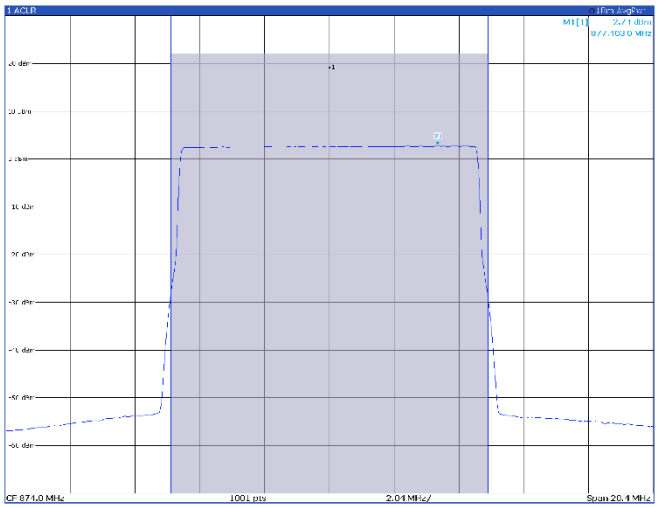


2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
±1 (MoP)	5.000 MHz		21.70 dBm
Tx Total			21.70 dBm

Band n5 | **10 MHz**

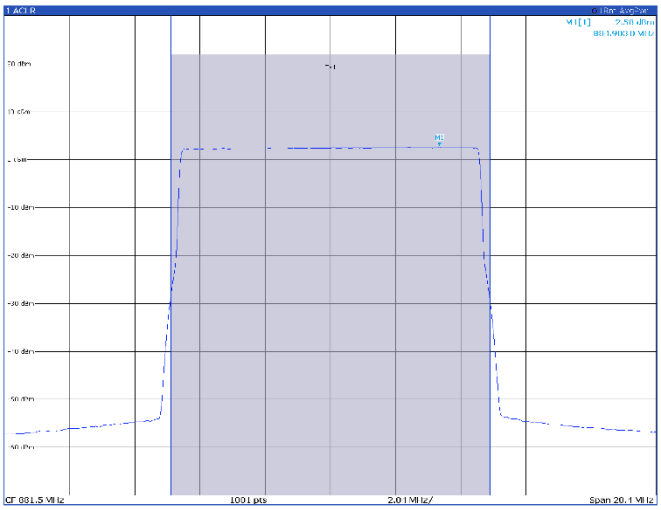
TM1.1, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (PcP)	10.000 MHz		22.08 dBm
Tx Total			22.08 dBm

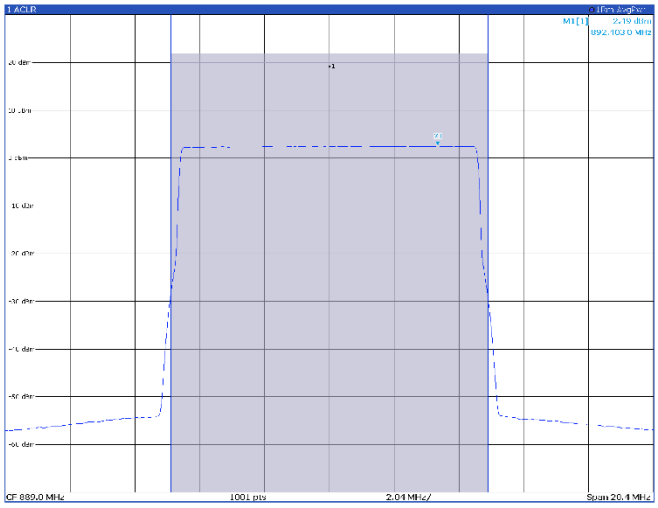
TM1.1, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (PcP)	10.000 MHz		21.94 dBm
Tx Total			21.94 dBm

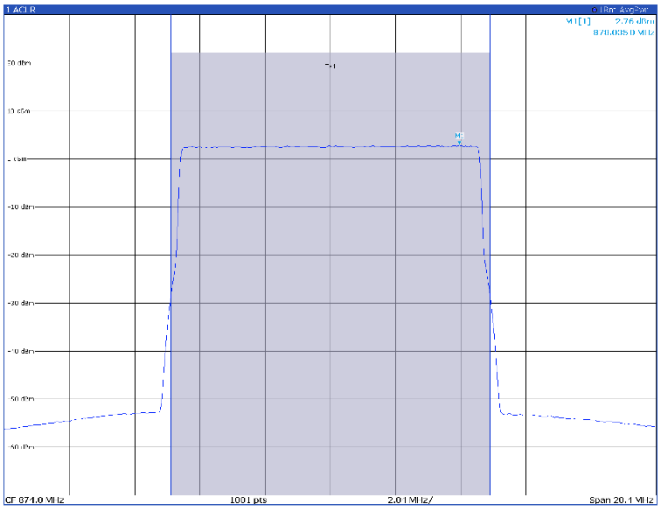
TM1.1, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (PcP)	10.000 MHz		21.81 dBm
Tx Total			21.81 dBm

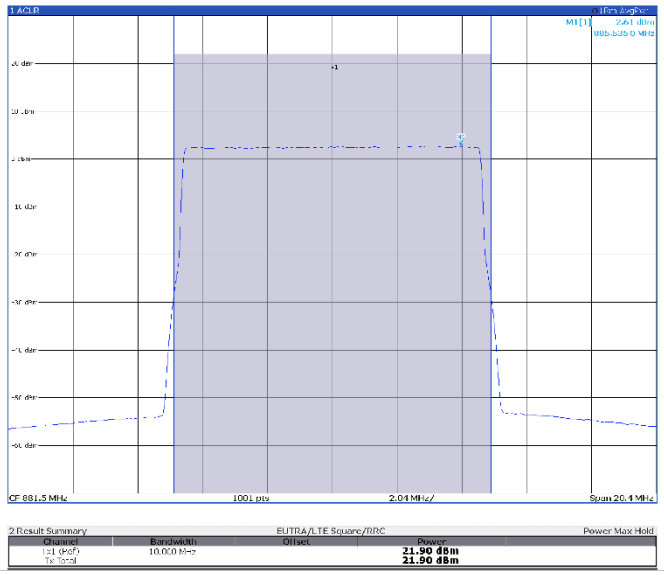
TM3p1, 10 MHz, low channel



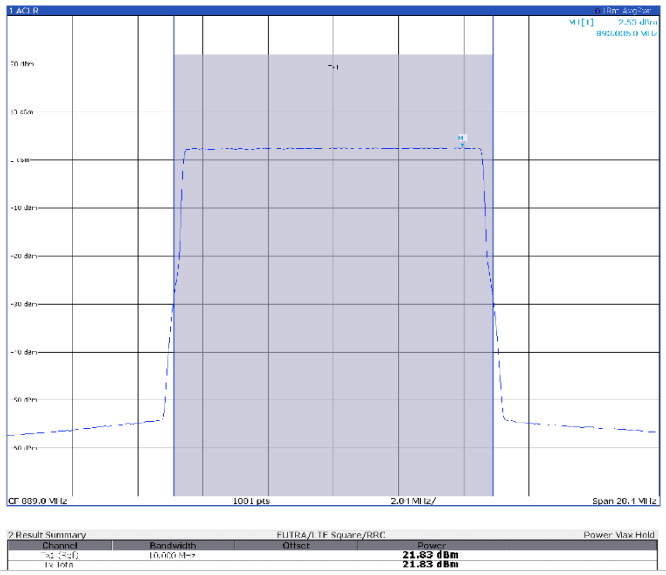
2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (PcP)	10.000 MHz		22.00 dBm
Tx Total			22.00 dBm

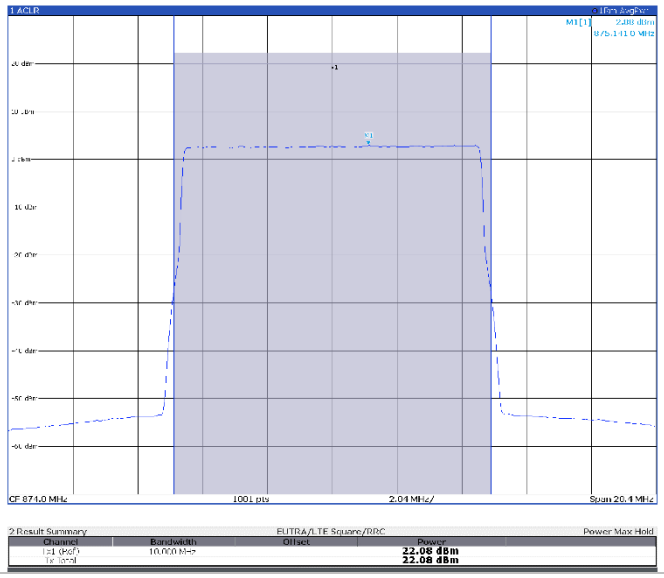
TM3p1, 10 MHz, mid channel



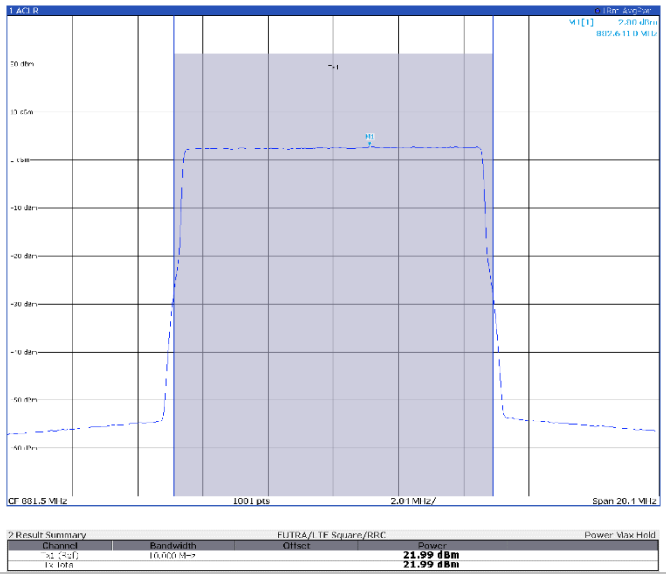
TM3p1, 10 MHz, high channel



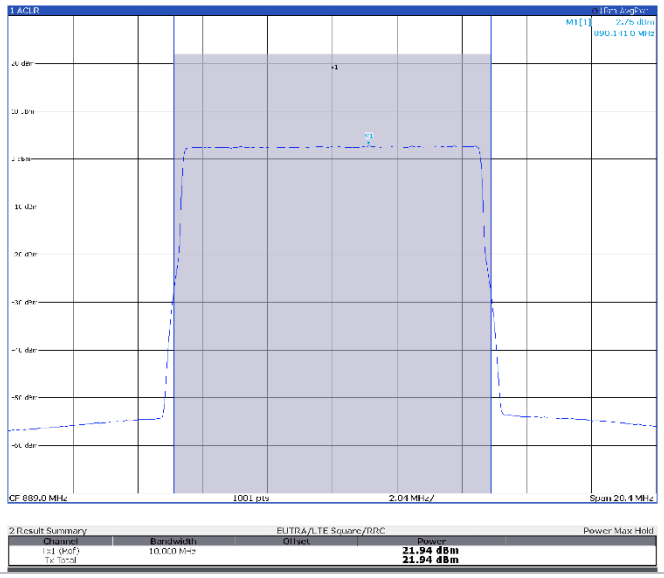
TM3p1a, 10 MHz, low channel



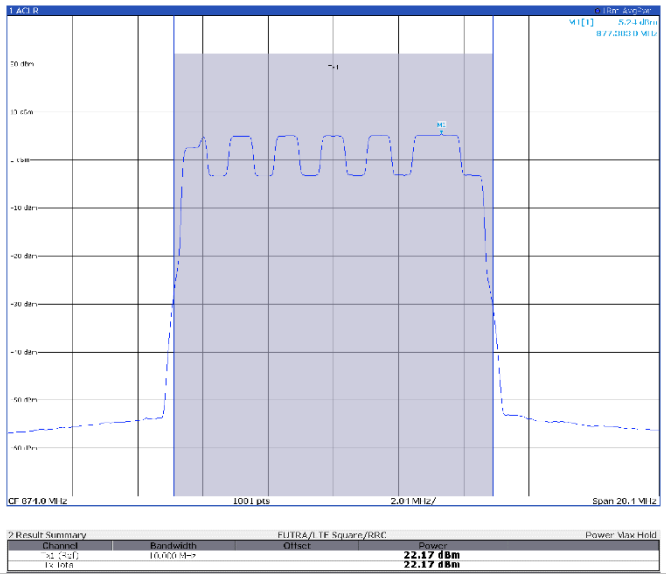
TM3p1a, 10 MHz, mid channel



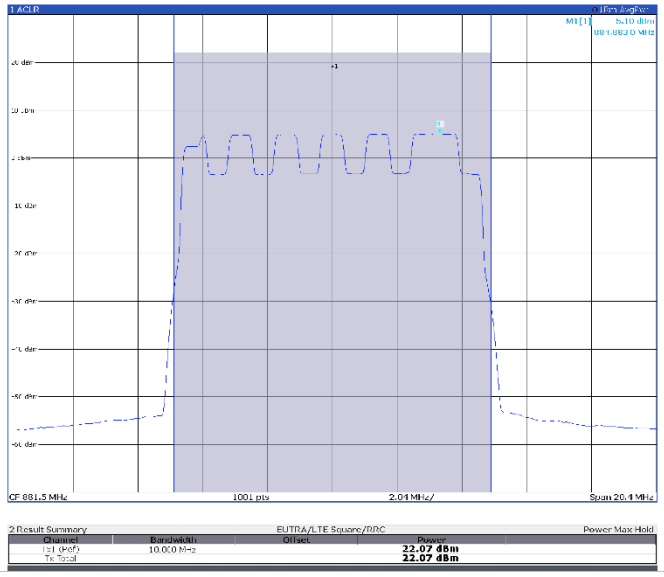
TM3p1a, 10 MHz, high channel



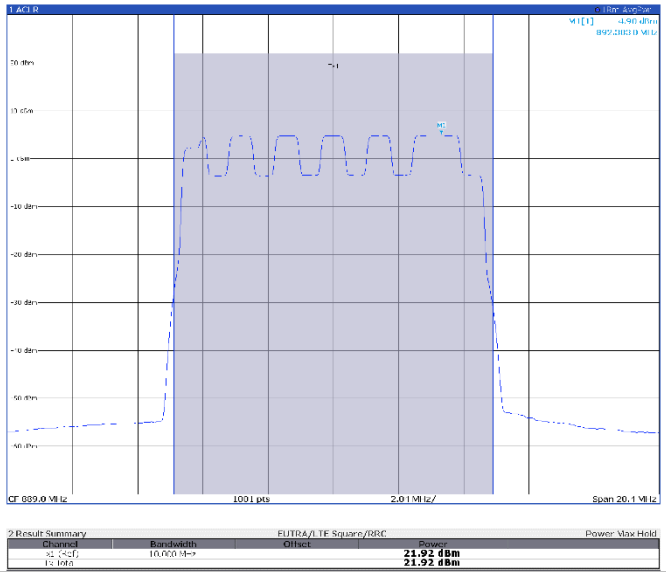
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



TM3p3, 10 MHz, high channel



8.5 FCC 22.913(d) Effective radiated power limits - Peak to Average Power Ratio

8.5.1 Definitions and limits

(d) ***Power measurements*** Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

8.5.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 31, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.5.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.2.3.4.

Spectrum analyzer settings:

Resolution bandwidth	≥ OBW
Number of counts	The necessary number up to stabilizes the measured
Trace mode	Clear/Write

8.5.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.5.5 Test data

Antenna 1

Band n5:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	1	871.5	8.46	13	-4.54
n5	5 MHz	1	881.5	8.44	13	-4.56
n5	5 MHz	1	891.5	8.48	13	-4.52

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	1	871.5	8.30	13	-4.70
n5	5 MHz	1	881.5	8.36	13	-4.64
n5	5 MHz	1	891.5	8.34	13	-4.66

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	1	871.5	8.44	13	-4.56
n5	5 MHz	1	881.5	8.38	13	-4.62
n5	5 MHz	1	891.5	8.34	13	-4.66

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	1	871.5	8.54	13	-4.46
n5	5 MHz	1	881.5	8.48	13	-4.52
n5	5 MHz	1	891.5	8.46	13	-4.54

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	1	874.0	8.52	13	-4.48
n5	10 MHz	1	881.5	8.52	13	-4.48
n5	10 MHz	1	889.0	8.44	13	-4.56

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	1	874.0	8.42	13	-4.58
n5	10 MHz	1	881.5	8.36	13	-4.64
n5	10 MHz	1	889.0	8.38	13	-4.62

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	1	874.0	8.36	13	-4.64
n5	10 MHz	1	881.5	8.38	13	-4.62
n5	10 MHz	1	889.0	8.36	13	-4.64

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	1	874.0	8.46	13	-4.54
n5	10 MHz	1	881.5	8.54	13	-4.46
n5	10 MHz	1	889.0	8.54	13	-4.46

Peak to average power ratio, TM3p3

Antenna 2

Band n5:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	2	871.5	8.44	13	-4.56
n5	5 MHz	2	881.5	8.46	13	-4.54
n5	5 MHz	2	891.5	8.50	13	-4.50

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	2	871.5	8.34	13	-4.66
n5	5 MHz	2	881.5	8.36	13	-4.64
n5	5 MHz	2	891.5	8.38	13	-4.62

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	2	871.5	8.38	13	-4.62
n5	5 MHz	2	881.5	8.42	13	-4.58
n5	5 MHz	2	891.5	8.40	13	-4.60

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	5 MHz	2	871.5	8.50	13	-4.50
n5	5 MHz	2	881.5	8.50	13	-4.50
n5	5 MHz	2	891.5	8.52	13	-4.48

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	2	874.0	8.42	13	-4.58
n5	10 MHz	2	881.5	8.54	13	-4.46
n5	10 MHz	2	889.0	8.50	13	-4.50

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	2	874.0	8.38	13	-4.62
n5	10 MHz	2	881.5	8.42	13	-4.58
n5	10 MHz	2	889.0	8.40	13	-4.60

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	2	874.0	8.40	13	-4.60
n5	10 MHz	2	881.5	8.40	13	-4.60
n5	10 MHz	2	889.0	8.42	13	-4.58

Peak to average power ratio, TM3p1a

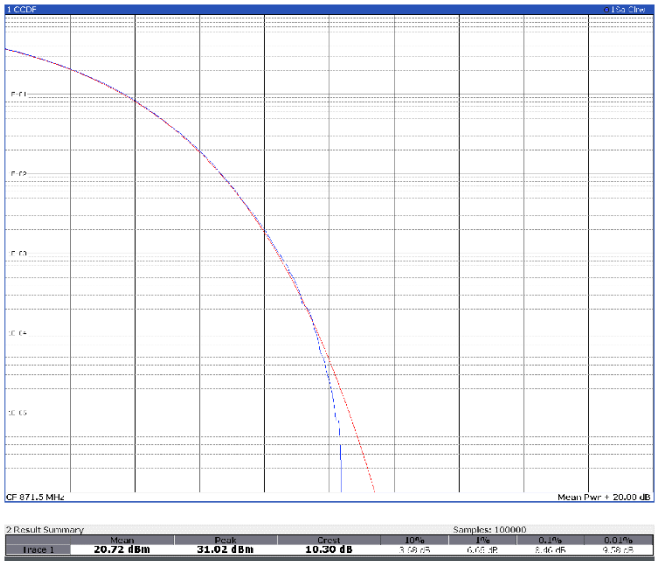
Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n5	10 MHz	2	874.0	8.40	13	-4.60
n5	10 MHz	2	881.5	8.48	13	-4.52
n5	10 MHz	2	889.0	8.48	13	-4.52

Peak to average power ratio, TM3p3

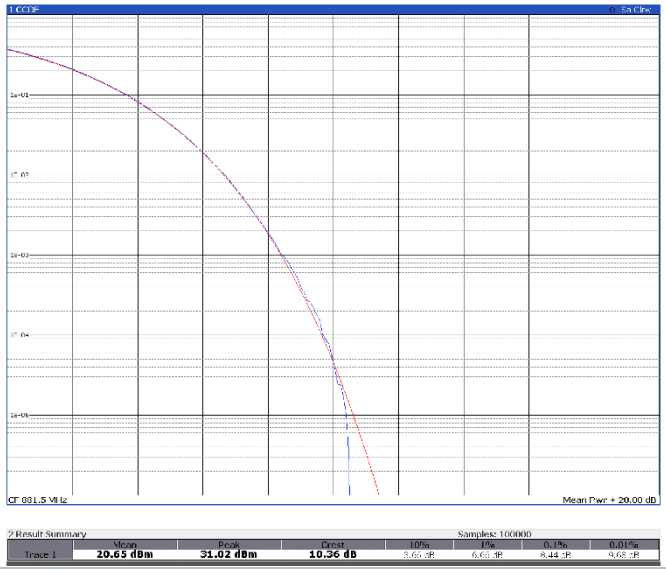
Antenna port 1

Band n5	**5 MHz**

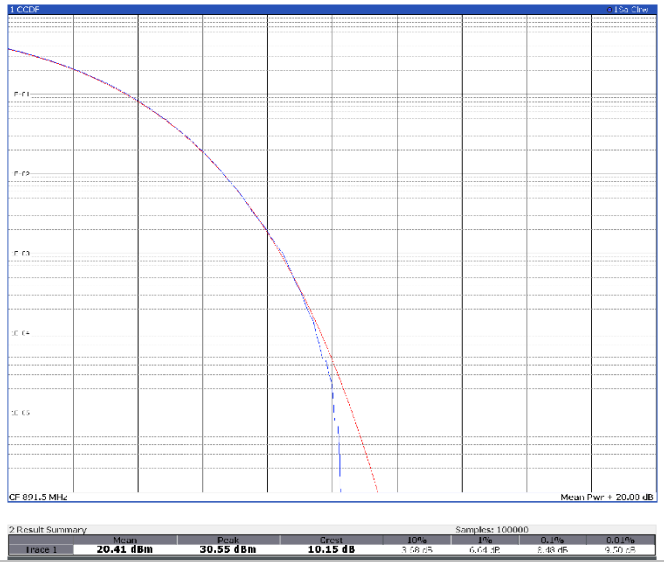
TM1.1, 5 MHz, low channel



TM1.1, 5 MHz, mid channel

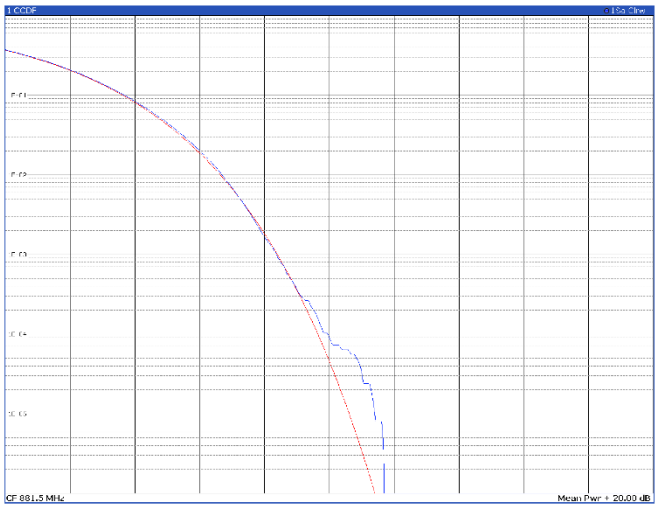


TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

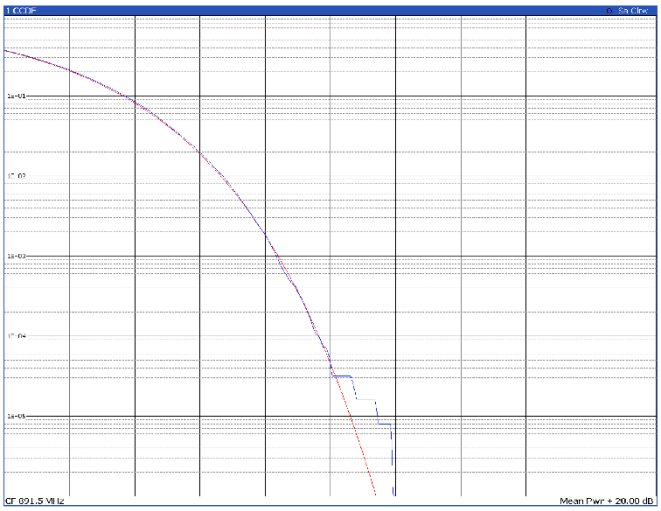
TM3p1, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.87 dBm	32.45 dBm	11.58 dB	3.58 dB	6.68 dB	8.36 dB	9.91 dB

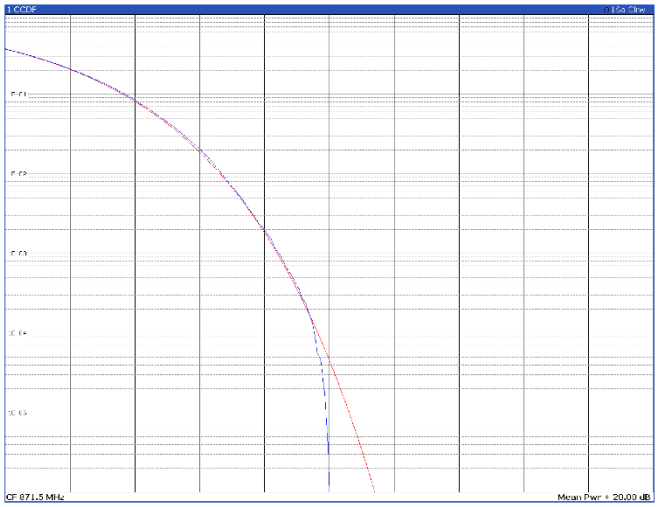
TM3p1, 5 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.33 dBm	32.12 dBm	11.80 dB	3.70 dB	6.70 dB	8.34 dB	9.62 dB

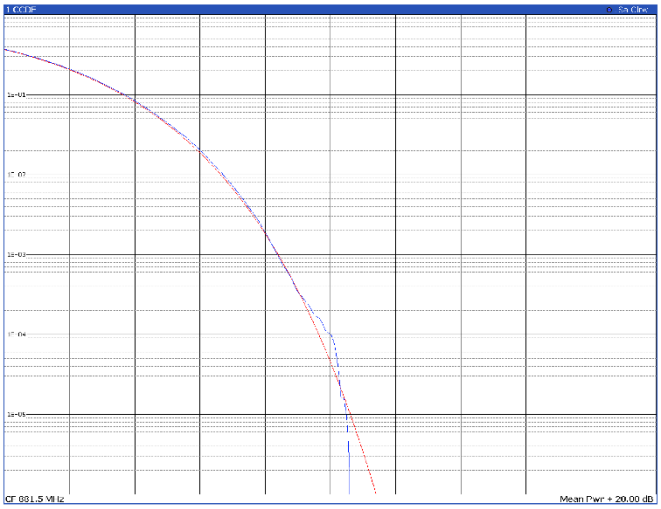
TM3p1a, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.73 dBm	30.60 dBm	9.88 dB	3.70 dB	6.68 dB	8.44 dB	9.54 dB

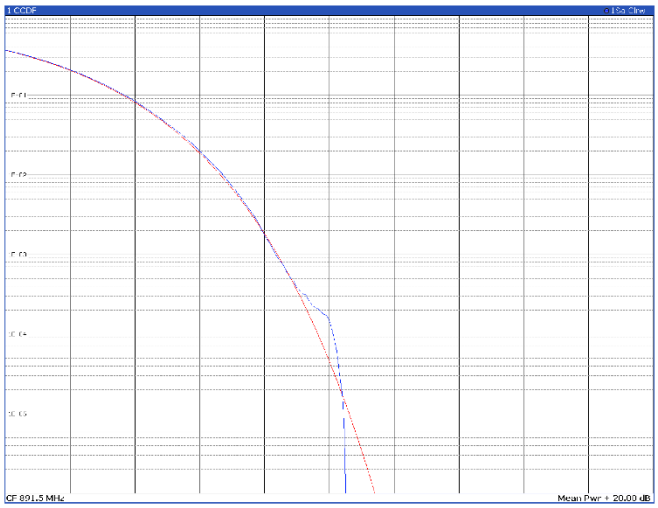
TM3p1a, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.75 dBm	31.21 dBm	10.46 dB	3.68 dB	6.70 dB	8.38 dB	10.00 dB

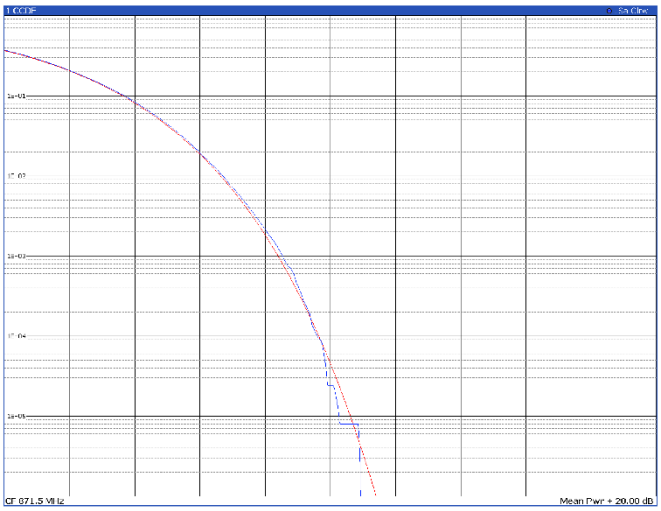
TM3p1a, 5 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.35 dBm	30.78 dBm	10.43 dB	3.68 dB	6.70 dB	8.34 dB	10.12 dB

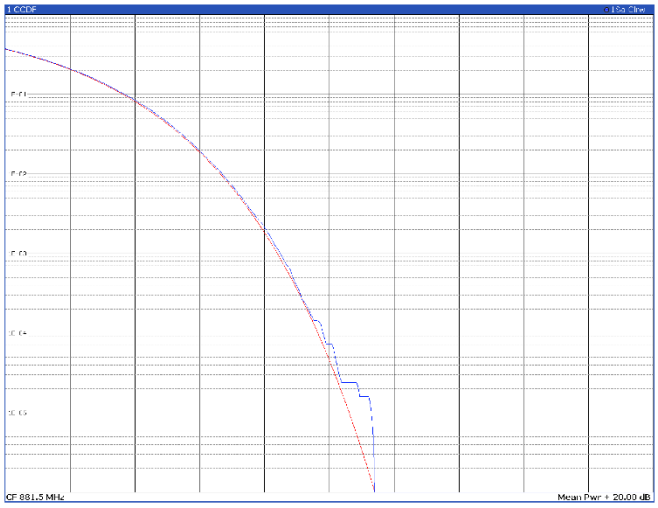
TM3p3, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.82 dBm	31.62 dBm	10.80 dB	3.68 dB	6.70 dB	8.34 dB	9.60 dB

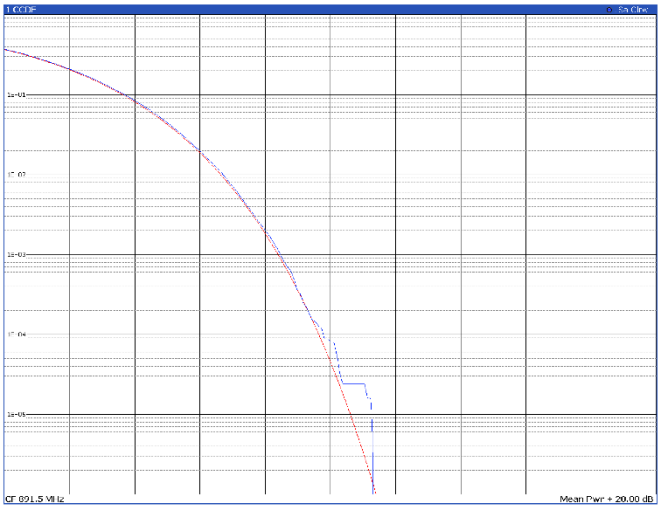
TM3p3, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.79 dBm	32.05 dBm	11.27 dB	3.68 dB	6.70 dB	8.48 dB	9.80 dB

TM3p3, 5 MHz, high channel

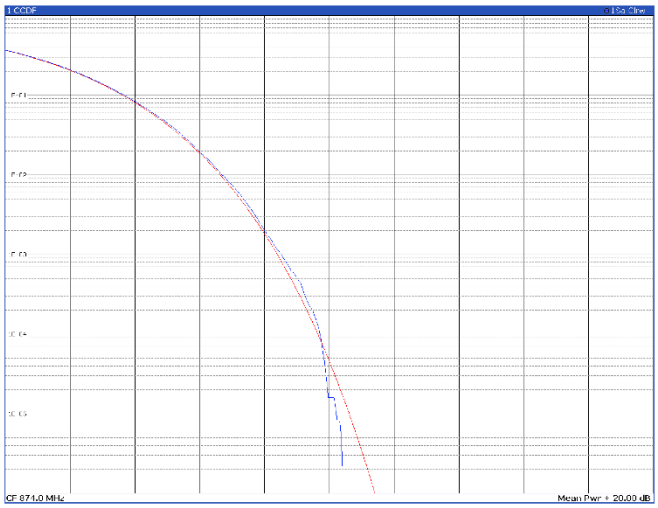


2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.56 dBm	31.82 dBm	11.26 dB	3.68 dB	6.70 dB	8.48 dB	9.78 dB

Band n5 | **10 MHz**

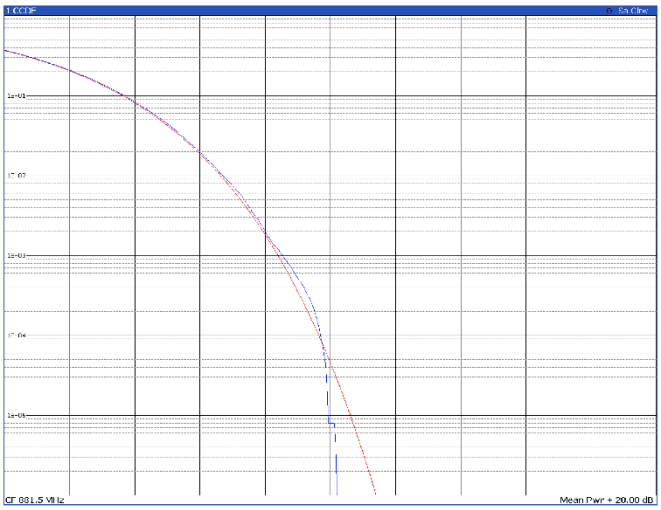
TM1.1, 10 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.66 dBm	27.95 dBm	10.29 dB	3.58 dB	6.72 dB	8.52 dB	9.72 dB

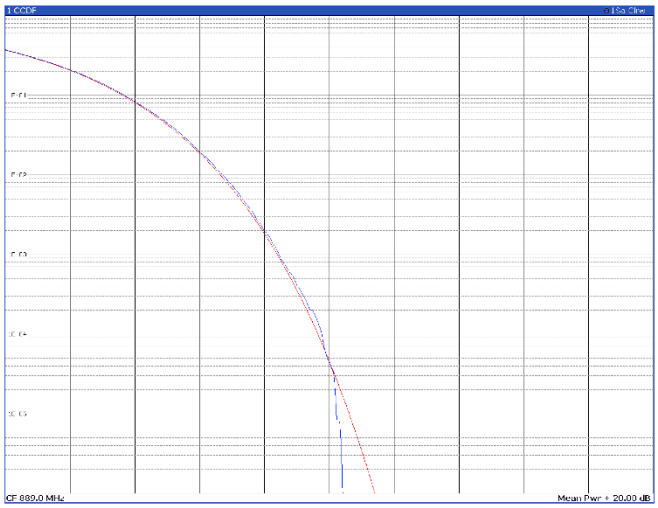
TM1.1, 10 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.56 dBm	27.66 dBm	10.10 dB	3.66 dB	6.70 dB	8.52 dB	9.72 dB

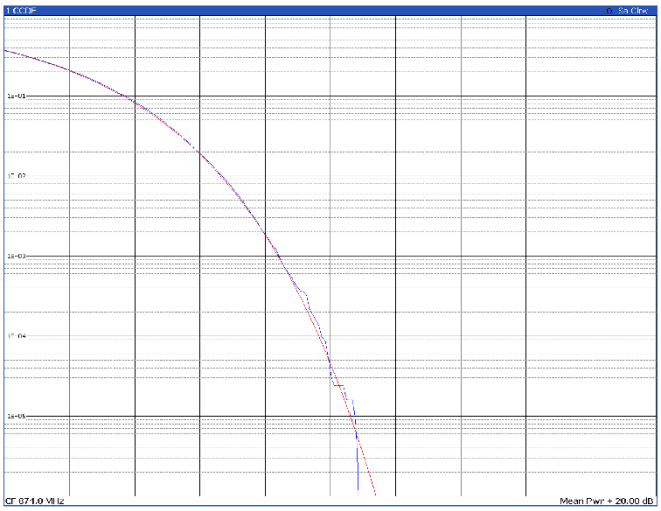
TM1.1, 10 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.34 dBm	27.63 dBm	10.29 dB	3.56 dB	6.72 dB	8.44 dB	9.76 dB

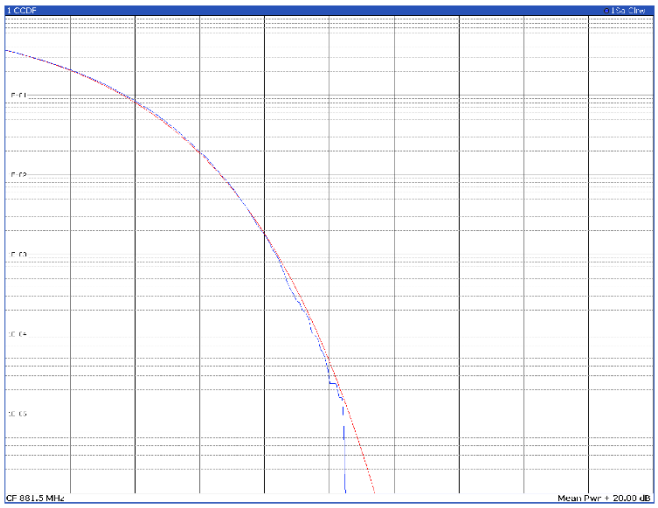
TM3p1, 10 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.59 dBm	28.31 dBm	10.72 dB	3.68 dB	6.66 dB	8.42 dB	9.72 dB

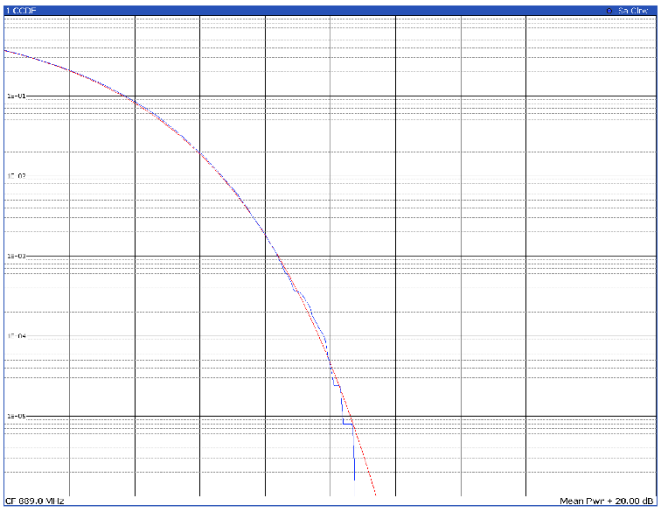
TM3p1, 10 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.57 dBm	27.99 dBm	10.42 dB	3.70 dB	6.63 dB	8.36 dB	9.50 dB

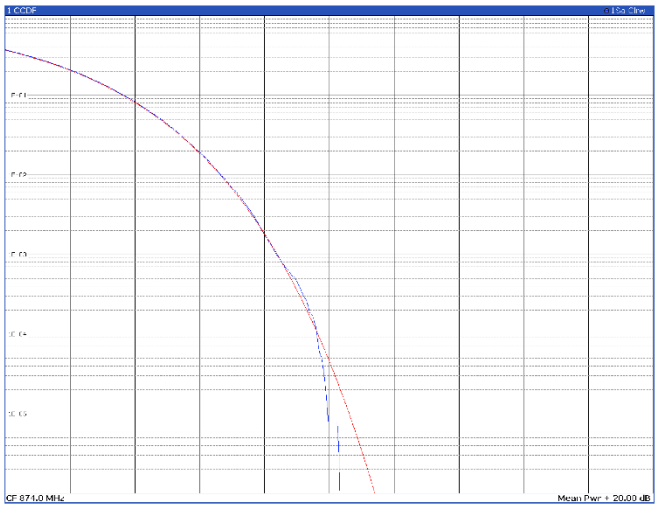
TM3p1, 10 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.36 dBm	28.02 dBm	10.66 dB	3.68 dB	6.63 dB	8.38 dB	9.80 dB

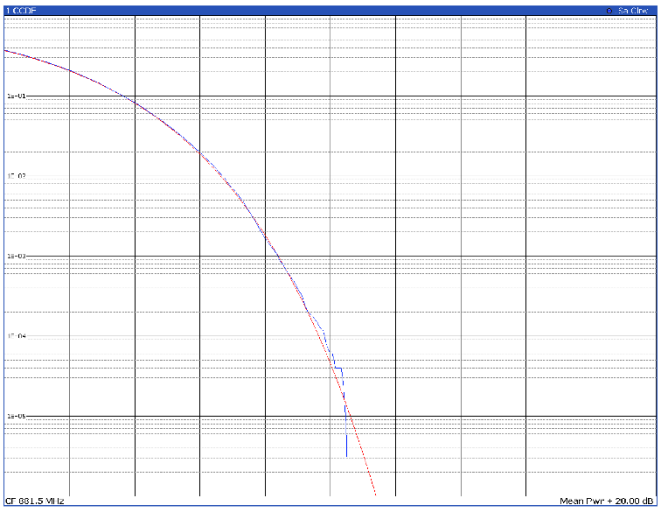
TM3p1a, 10 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.56 dBm	27.78 dBm	10.22 dB	3.56 dB	6.64 dB	8.36 dB	9.62 dB

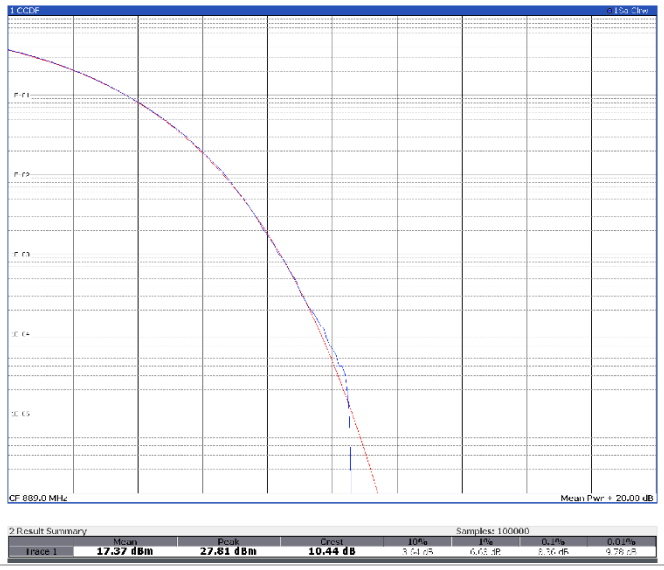
TM3p1a, 10 MHz, mid channel



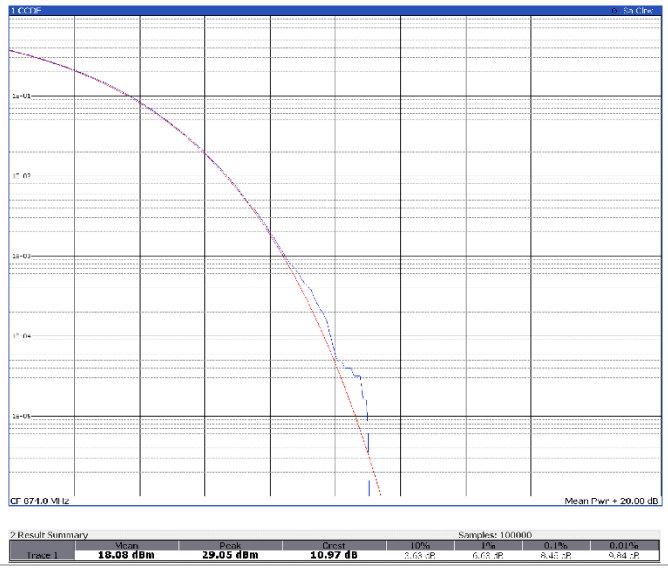
2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.63 dBm	28.06 dBm	10.43 dB	3.66 dB	6.63 dB	8.38 dB	9.80 dB

TM3p1a, 10 MHz, high channel

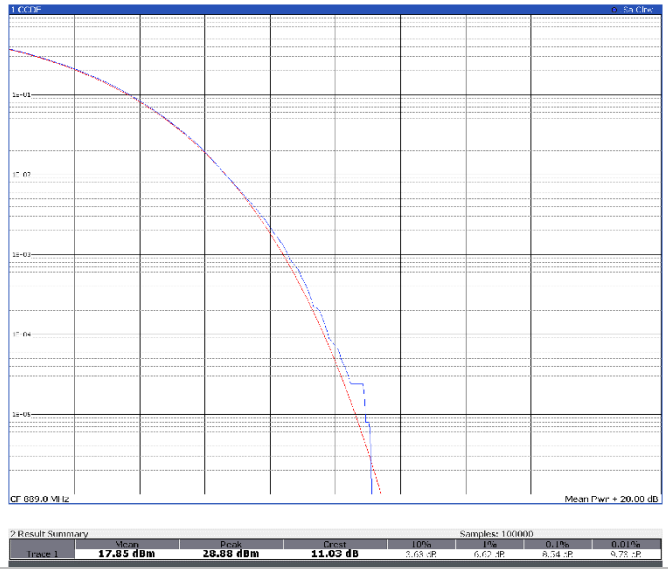


TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel

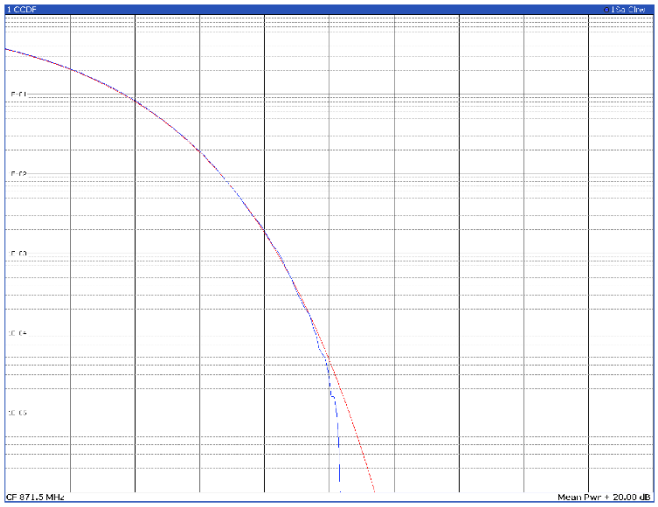
TM3p3, 10 MHz, high channel



Antenna port 2

Band n5	**5 MHz**

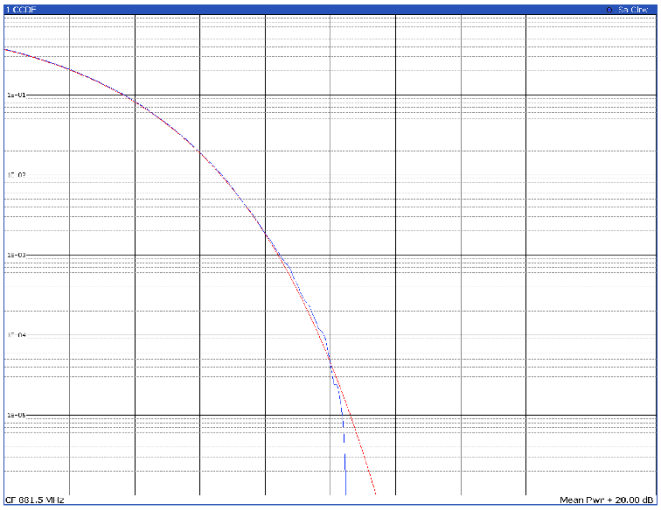
TM1.1, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.76 dBm	31.02 dBm	10.26 dB	3.68 dB	6.64 dB	8.44 dB	9.56 dB

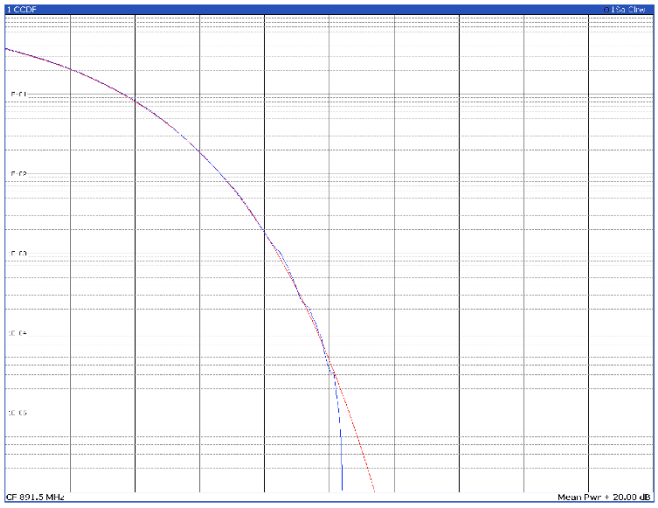
TM1.1, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.58 dBm	30.95 dBm	10.36 dB	3.65 dB	6.68 dB	8.45 dB	9.81 dB

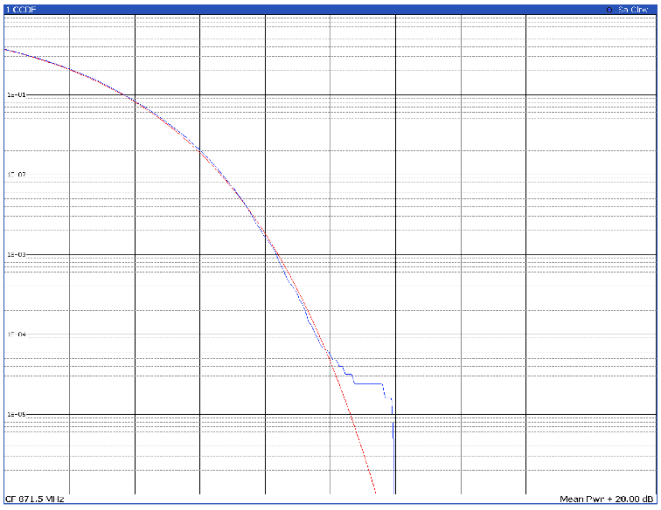
TM1.1, 5 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.44 dBm	30.79 dBm	10.35 dB	3.56 dB	6.04 dB	8.50 dB	9.68 dB

TM3p1, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.74 dBm	32.60 dBm	11.86 dB	3.65 dB	6.68 dB	8.34 dB	9.34 dB