

RADIO TEST REPORT

REP068642

Date of issue: December 23, 2024

Applicant:

**Andrew Wireless Systems Industriering 10, Buchdorf 86675
Germany**

Product:

RPM-A61L1-7E

Model:

7847588-00

Model variant:

None

FCC ID:

XS5-RPML2-B121314

IC Registration number:

NA

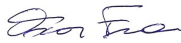
Specifications:

◆ **FCC 47 CFR Part 27**

Miscellaneous Wireless Communications Services

Lab and test locations

Company name	Nemko Spa
Address	Via del Carroccio, 4
City	Biassono
Province	MB
Postal code	20853
Country	Italy
Telephone	+39 039 220 12 01
Website	+39 039 220 12 21

Tested by	O. Frau
Signature	 Firmato digitalmente da Frau Oscar
Reviewed by	D. Guarnone
Review date	December 23, 2024
Signature	 Firmato digitalmente da Guarnone Daniele

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.

Copyright notification

Nemko Spa authorizes the applicant to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko Spa accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Table of contents

Table of contents	3
Section 1. Report summary	4
1.1 Applicant and manufacturer	4
1.2 Test specifications	4
1.3 Statement of compliance	4
1.4 Exclusions	4
1.5 Test report revision history	4
Section 2. Summary of test results	5
2.1 FCC Part 27 test results	5
Section 3. Equipment under test (EUT) details	6
3.1 Sample information	6
3.2 EUT information	6
3.3 Technical information	6
3.4 Product description and theory of operation	6
3.5 EUT exercise details	6
3.6 EUT setup diagram	7
Section 4. Engineering considerations	8
4.1 Modifications incorporated in the EUT	8
4.2 Technical judgment	8
4.3 Deviations from laboratory tests procedures	8
Section 5. Test conditions	9
5.1 Atmospheric conditions	9
5.2 Power supply range	9
Section 6. Measurement uncertainty	10
6.1 Uncertainty of measurement	10
Section 7. Test equipment	11
7.1 Test equipment list	11
Section 8. Testing data	12
8.1 FCC §2.1033(c)(4) Modulation type	12
8.2 FCC §2.1049(h) 99% Occupied Bandwidth and frequency ranges	13
8.3 FCC §27.53(h)(3) 26 dB Occupied Bandwidth	24
8.4 FCC §27.50(b)(4) Output power	35
8.5 FCC §27.50(d)(5) Peak to Average Power Ratio	45
8.6 FCC §27.53(m) Emission Limits	56
8.7 FCC §27.54 Frequency Stability	86
Section 9. Block diagrams of test setups	87
9.1 Conducted emissions set-up	87
9.2 Radiated emissions set-up	88

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 27	Miscellaneous Wireless Communications 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
REP068642	Original report issued

Section 2. Summary of test results

2.1 FCC Part 27 test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§2.1049(h)	99% Occupied bandwidth	Pass
§27.53(h)(3)	Frequency ranges	Pass
§27.50(b)(4)	Output power at RF antenna connector	Pass
§27.50(d)(5)	Peak to average power ratio	Pass
§27.53(m)	Conducted spurious emissions	Pass
§27.53(m)	Radiated spurious emissions	Pass
§27.53(h)(3)	26 dB Occupied bandwidth	Pass
§27.54	Frequency stability	Pass

Note: None.

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	November 7, 2024
Nemko sample ID number	PRJ00630770006

3.2 EUT information

Product name	RPM-A61L1-7E
Model	7847588-00
Part Number	7847588-00
Serial number	SZRMBG24230045

3.3 Technical information

Frequency band	B13: 746 - 756 MHz
RF power Max (W), Conducted	max Port 1 = 23.5 dBm (0.22 W) – max Port 2 = 23.0 dBm (0.20 W); max comb. Port 1 + Port 2 = 26.5 dBm (0.44 W) @ 748.5 MHz (with 5 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	3.7 dBi

3.4 Product description and theory of operation

The radio unit (RU) is one of the components to configure the 4G 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

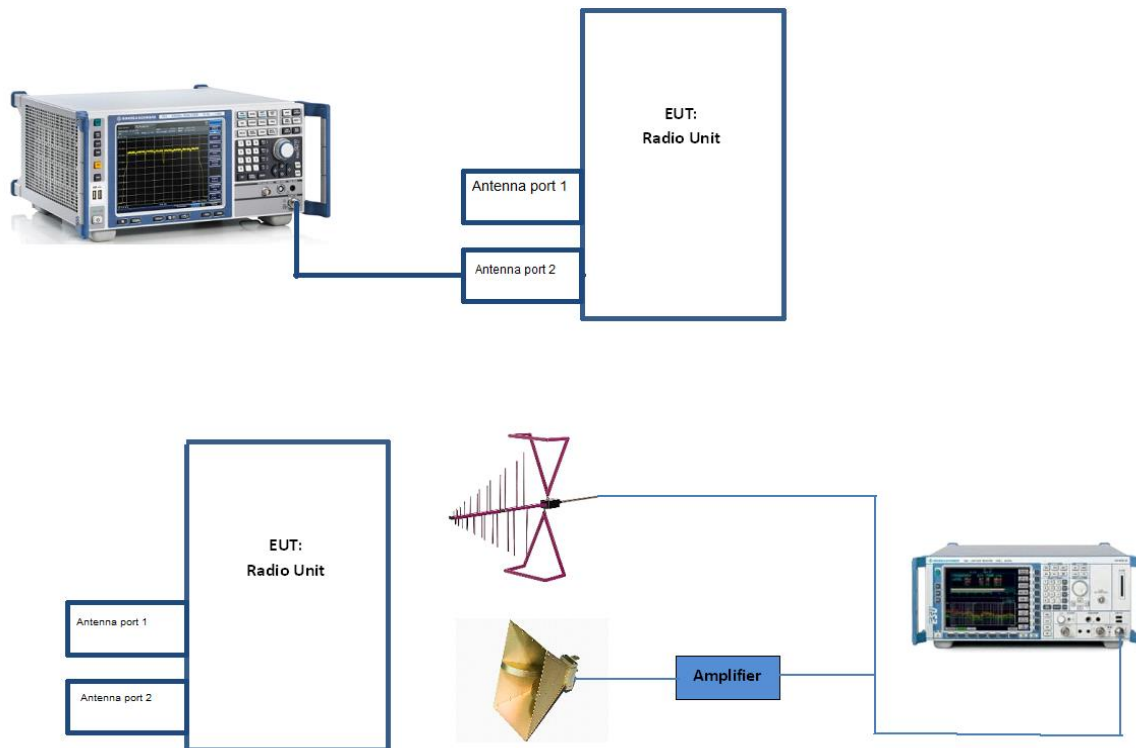


Figure 3.6-1: Setup diagram

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 $\pm 5\%$, 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)
			5 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	November 26, 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 B13:

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

Table Error. 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	November 26, 2024	Temperature	22 °C
Test end date	December 13, 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 B13: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM1.1	748.5	4.49
B13	5 MHz	TM1.1	751.0	4.50
B13	5 MHz	TM1.1	753.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM3p1	748.5	4.52
B13	5 MHz	TM3p1	751.0	4.49
B13	5 MHz	TM3p1	753.5	4.52

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM3p1a	748.5	4.48
B13	5 MHz	TM3p1a	751.0	4.48
B13	5 MHz	TM3p1a	753.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM3p3	748.5	4.50
B13	5 MHz	TM3p3	751.0	4.49
B13	5 MHz	TM3p3	753.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM1.1	n/a	-
B13	10 MHz	TM1.1	751.0	8.97
B13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM3p1	n/a	-
B13	10 MHz	TM3p1	751.0	8.97
B13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM3p1a	n/a	-
B13	10 MHz	TM3p1a	751.0	8.98
B13	10 MHz	TM3p1a	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM3p3	n/a	-
B13	10 MHz	TM3p3	751.0	8.97
B13	10 MHz	TM3p3	n/a	-

Band B13: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM1.1	748.5	4.50
B13	5 MHz	TM1.1	751.0	4.50
B13	5 MHz	TM1.1	753.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM3p1	748.5	4.49
B13	5 MHz	TM3p1	751.0	4.52
B13	5 MHz	TM3p1	753.5	4.51

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM3p1a	748.5	4.49
B13	5 MHz	TM3p1a	751.0	4.49
B13	5 MHz	TM3p1a	753.5	4.48

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	5 MHz	TM3p3	748.5	4.50
B13	5 MHz	TM3p3	751.0	4.49
B13	5 MHz	TM3p3	753.5	4.48

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM1.1	n/a	-
B13	10 MHz	TM1.1	751.0	8.97
B13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM3p1	n/a	-
B13	10 MHz	TM3p1	751.0	8.97
B13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM3p1a	n/a	-
B13	10 MHz	TM3p1a	751.0	8.98
B13	10 MHz	TM3p1a	n/a	-

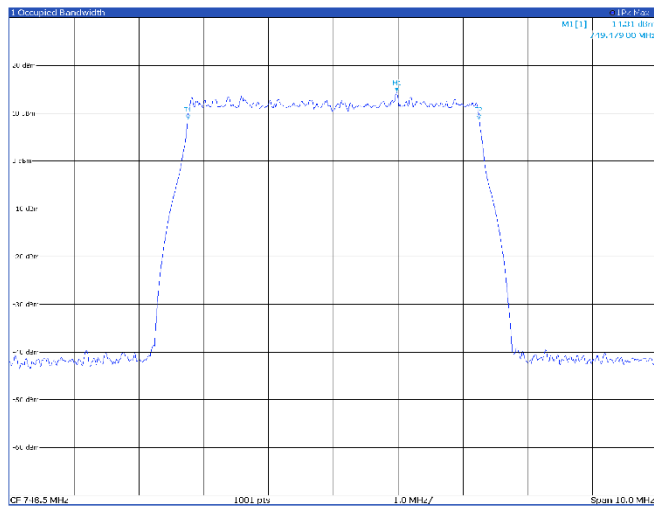
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B13	10 MHz	TM3p3	n/a	-
B13	10 MHz	TM3p3	751.0	8.97
B13	10 MHz	TM3p3	n/a	-

Antenna port 1

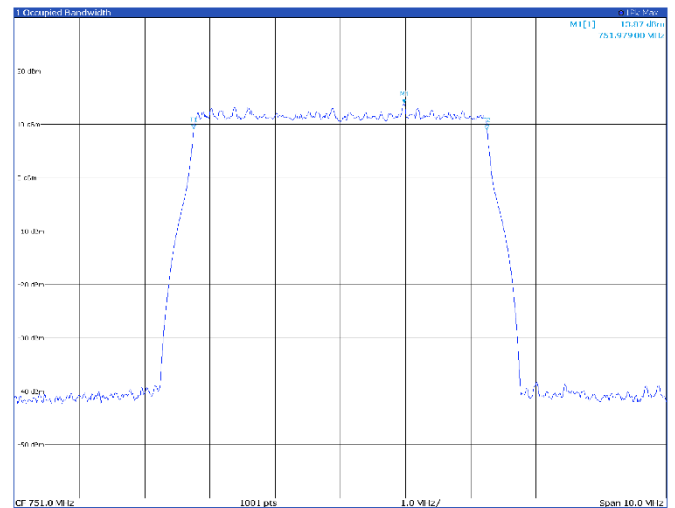
Band B13

5 MHz

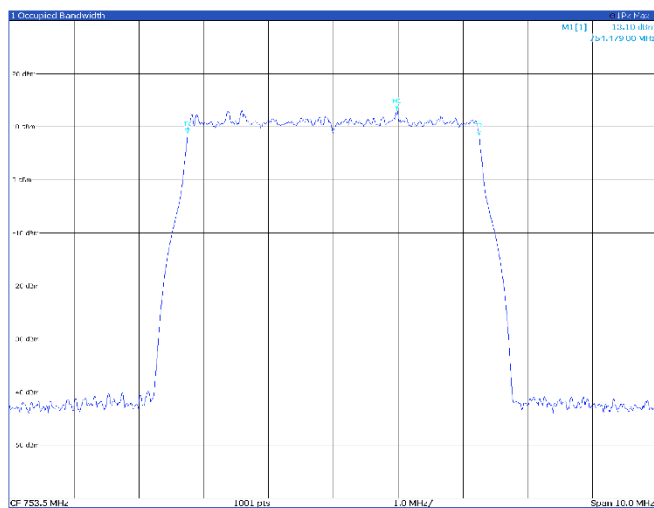
TM1.1, 5 MHz, low channel



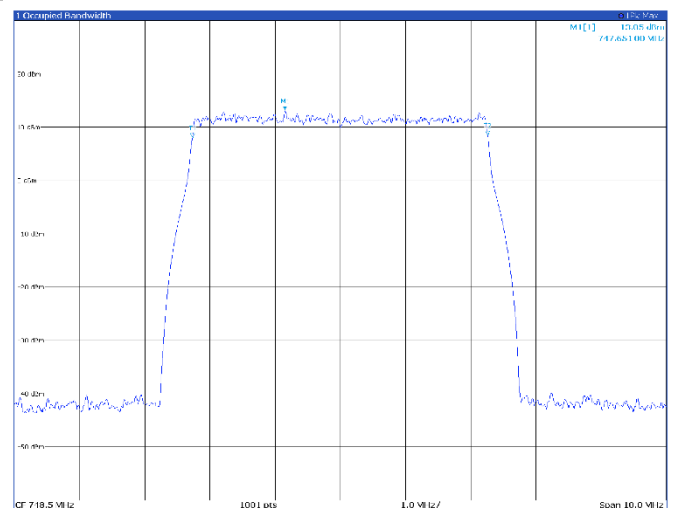
TM1.1, 5 MHz, mid channel

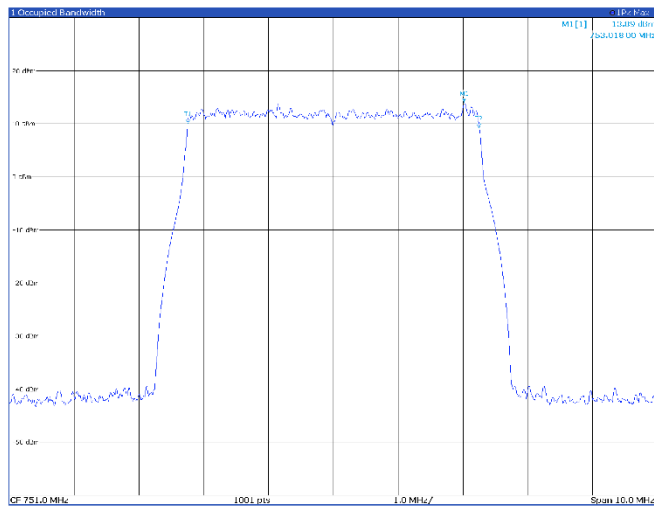


TM1.1, 5 MHz, high channel

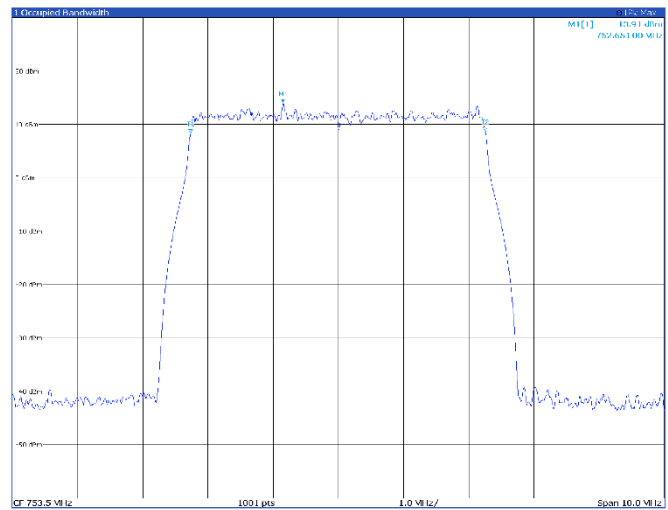


TM3p1, 5 MHz, low channel

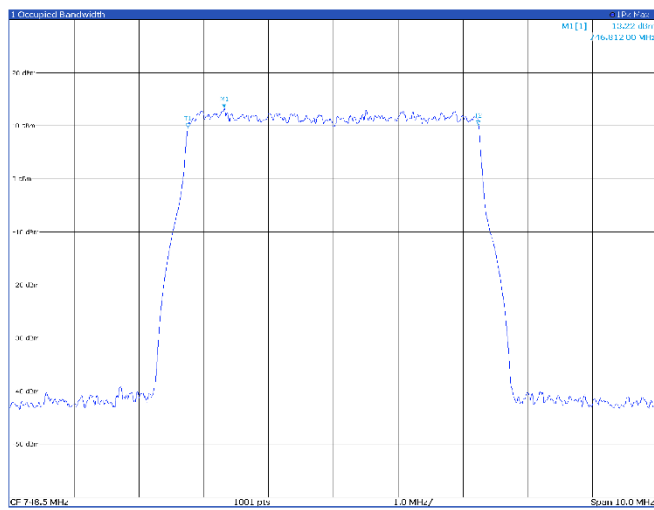


TM3p1, 5 MHz, mid channel


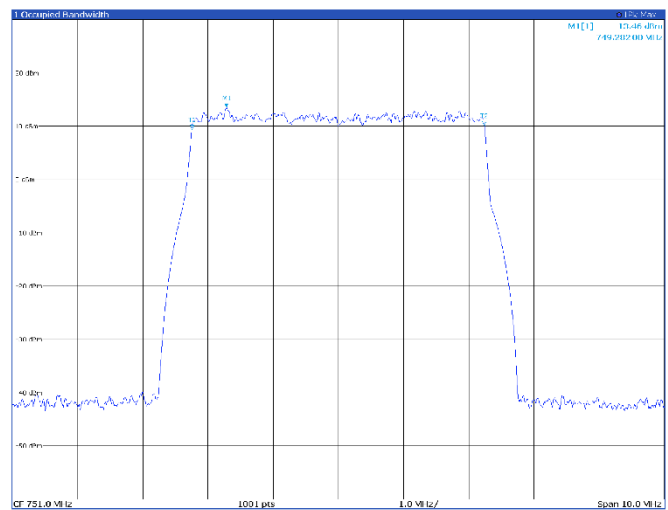
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		753.018 MHz	13.89 dBm		Occ Sw	4.49218172 MHz
M1	1		753.018 MHz	13.89 dBm	10.0 dBm	Occ Sw Control	753.018172 MHz
M1	1		753.018 MHz	13.89 dBm	10.0 dBm	Occ Sw Control	753.018172 MHz

TM3p1, 5 MHz, high channel


Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		752.651 MHz	13.91 dBm		Occ Sw	4.518371658 MHz
M1	1		752.651 MHz	13.91 dBm	10.0 dBm	Occ Sw Control	752.651371658 MHz
M1	1		752.651 MHz	13.91 dBm	10.0 dBm	Occ Sw Control	752.651371658 MHz

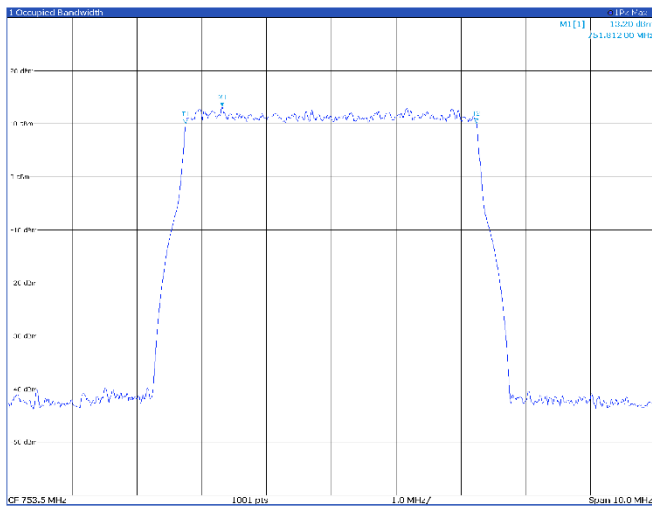
TM3p1a, 5 MHz, low channel


Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		746.812 MHz	13.22 dBm		Occ Sw	4.484957205 MHz
M1	1		746.812 MHz	13.22 dBm	10.0 dBm	Occ Sw Control	746.8127205 MHz
M1	1		746.812 MHz	13.22 dBm	10.0 dBm	Occ Sw Control	746.8127205 MHz

TM3p1a, 5 MHz, mid channel


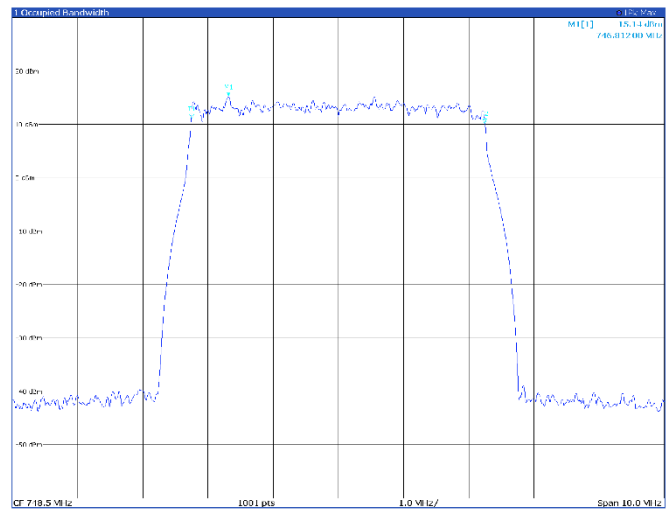
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		749.282 MHz	13.46 dBm		Occ Sw	4.481711219 MHz
M1	1		749.282 MHz	13.46 dBm	10.0 dBm	Occ Sw Control	749.2821219 MHz
M1	1		749.282 MHz	13.46 dBm	10.0 dBm	Occ Sw Control	749.2821219 MHz

TM3p1a, 5 MHz, high channel



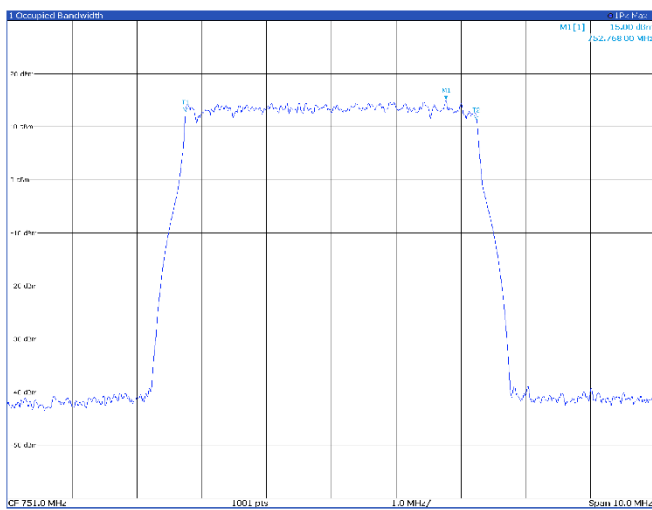
Type	Ref	Freq	X Value	Y Value	Function	Function Result
M1	1		751.812 MHz	13.20 dBm	Occ BW	4.488 407 345 MHz
M1	1		751.25113 MHz	0.00 dBm	Occ BW Channel	750.952 245 775 MHz
M2	1		752.76843 MHz	0.00 dBm	Occ BW Channel	753.069 697 669 MHz

TM3p3, 5 MHz, low channel



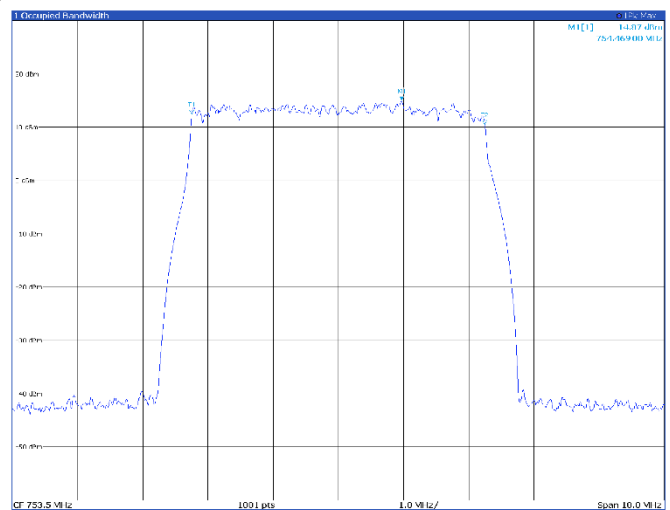
Type	Ref	Freq	X Value	Y Value	Function	Function Result
M1	1		746.812 MHz	15.14 dBm	Occ BW	4.496 697 669 MHz
M1	1		746.24688 MHz	0.00 dBm	Occ BW Channel	745.941 801 807 MHz
M2	1		747.43718 MHz	0.00 dBm	Occ BW Channel	747.733 673 333 MHz

TM3p3, 5 MHz, mid channel



Type	Ref	Freq	X Value	Y Value	Function	Function Result
M1	1		752.768 MHz	15.00 dBm	Occ BW	4.487 526 001 MHz
M1	1		749.74749 MHz	0.00 dBm	Occ BW Channel	750.952 245 775 MHz
M2	1		755.78851 MHz	0.00 dBm	Occ BW Channel	756.993 151 151 MHz

TM3p3, 5 MHz, high channel

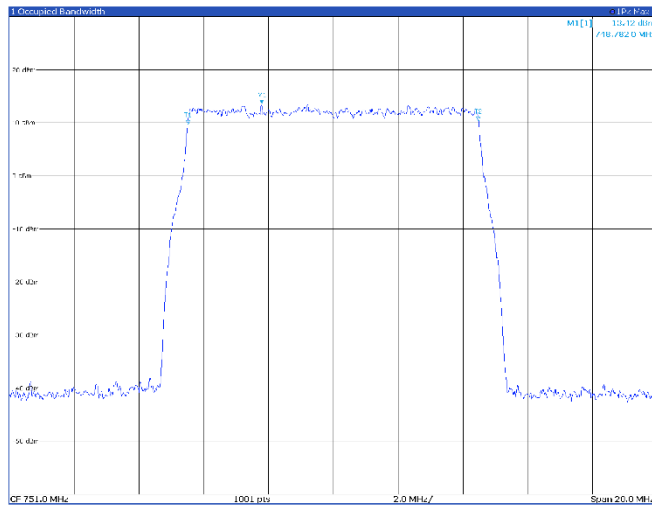


Type	Ref	Freq	X Value	Y Value	Function	Function Result
M1	1		754.469 MHz	14.87 dBm	Occ BW	4.496 824 139 MHz
M1	1		751.25113 MHz	0.00 dBm	Occ BW Channel	750.952 245 775 MHz
M2	1		757.74587 MHz	0.00 dBm	Occ BW Channel	758.046 824 139 MHz

Band B13

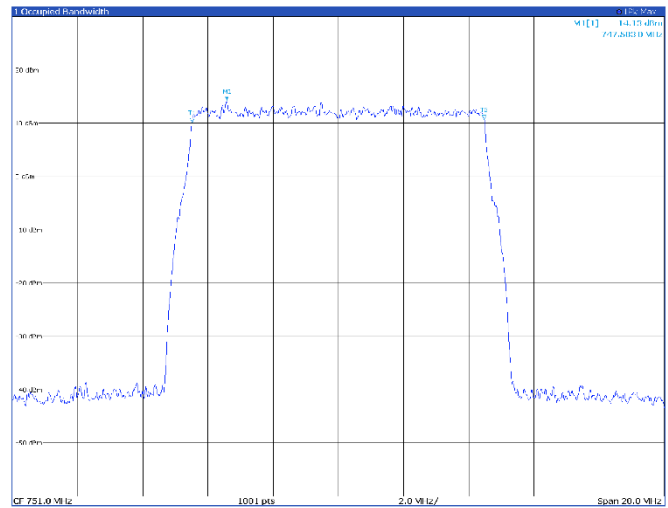
10 MHz

TM1.1, 10 MHz, mid channel



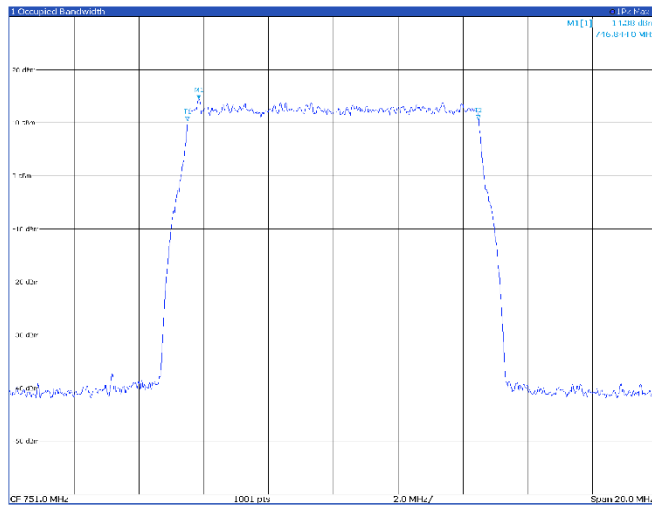
Type	Ref	Trc	X Value	Y Value	Dec. Set	Function	Function Result
M1	1		748.782 MHz	13.42 dBm	Dec. Set		8.965348443 MHz
M1	1		748.782 MHz	13.42 dBm	Dec. Set	Occupied Bandwidth	750.954501000 MHz
M1	1		748.782 MHz	13.42 dBm	Dec. Set	Occupied Bandwidth Offset	5.448196963 MHz

TM3p1, 10 MHz, mid channel



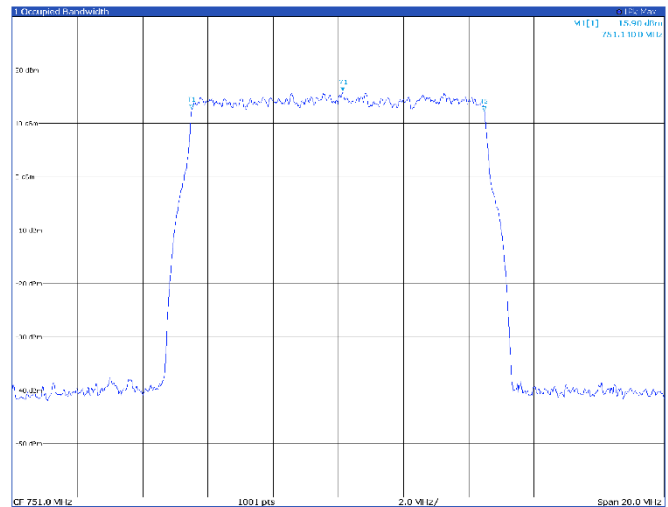
Type	Ref	Trc	X Value	Y Value	Dec. Set	Function	Function Result
M1	1		747.583 MHz	14.13 dBm	Dec. Set		8.972444988 MHz
M1	1		747.583 MHz	14.13 dBm	Dec. Set	Occupied Bandwidth	750.991055825 MHz
M1	1		747.583 MHz	14.13 dBm	Dec. Set	Occupied Bandwidth Offset	5.154017156 MHz

TM3p1a, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Dec. Set	Function	Function Result
M1	1		746.844 MHz	14.38 dBm	Dec. Set		8.977528298 MHz
M1	1		746.844 MHz	14.38 dBm	Dec. Set	Occupied Bandwidth	750.9520406 MHz
M1	1		746.844 MHz	14.38 dBm	Dec. Set	Occupied Bandwidth Offset	4.449487693 MHz

TM3p3, 10 MHz, mid channel



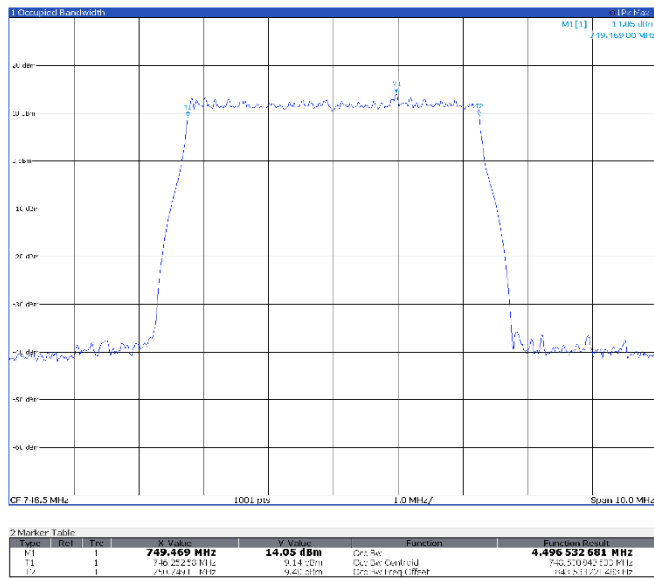
Type	Ref	Trc	X Value	Y Value	Dec. Set	Function	Function Result
M1	1		751.14 MHz	15.90 dBm	Dec. Set		8.973702208 MHz
M1	1		751.14 MHz	15.90 dBm	Dec. Set	Occupied Bandwidth	750.987055195 MHz
M1	1		751.14 MHz	15.90 dBm	Dec. Set	Occupied Bandwidth Offset	5.170452707 MHz

Antenna port 2

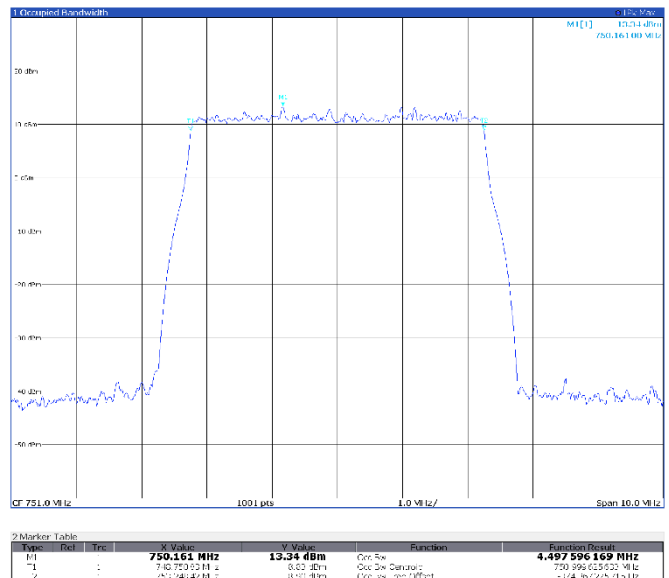
Band B13

5 MHz

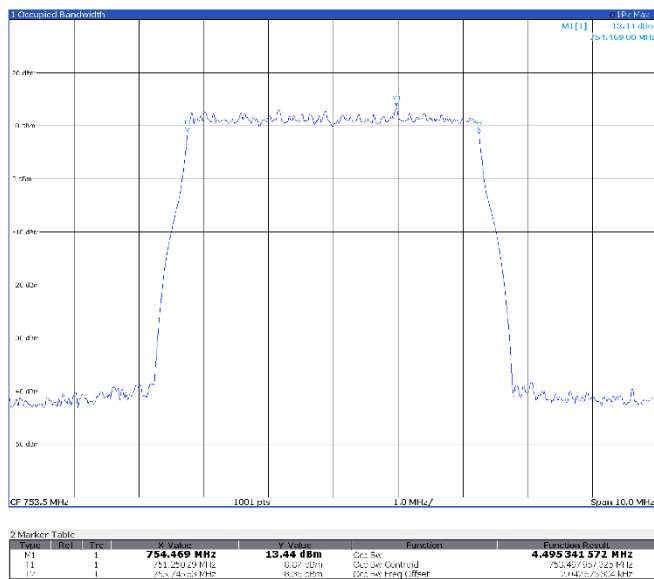
TM1.1, 5 MHz, low channel



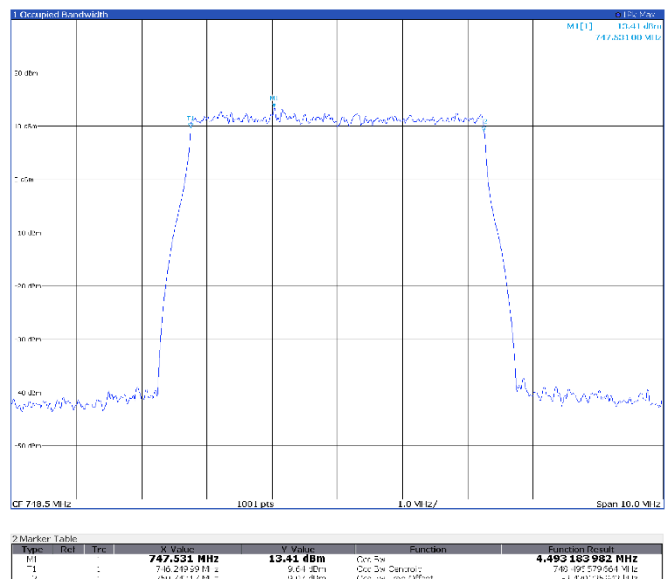
TM1.1, 5 MHz, mid channel



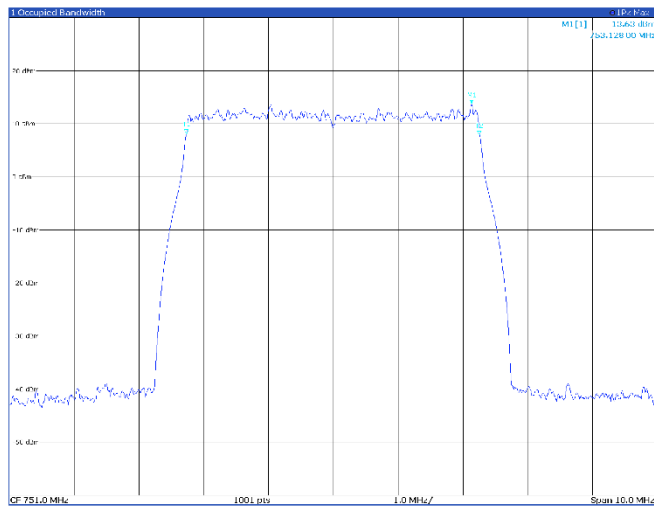
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

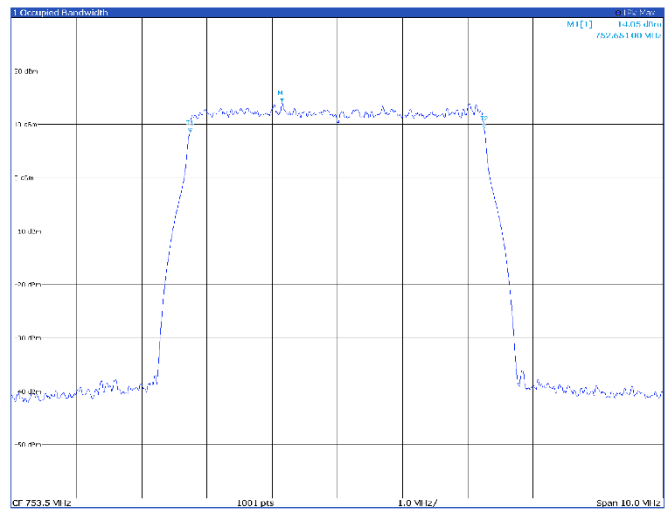


TM3p1, 5 MHz, mid channel



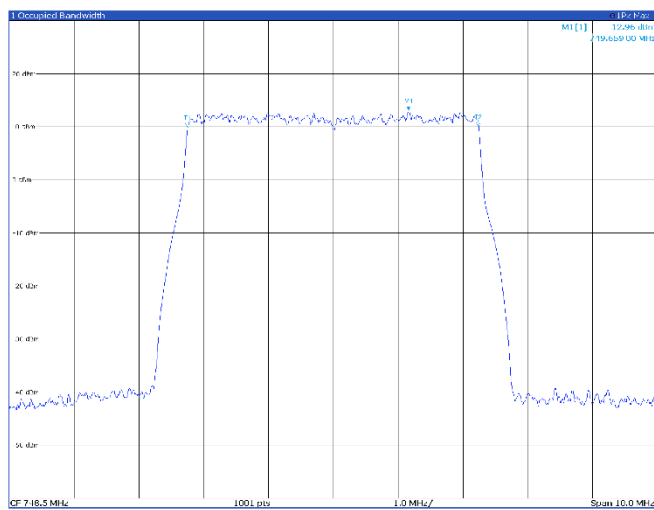
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		753.128 MHz	13.63 dBm	Occ Sw	4.520 205 126 MHz
T1	1		749.722 99 MHz	0.11 dBm	Occ Sw Channel	750.952 779 120 MHz
T2	1		756.552 94 MHz	2.26 dBm	Occ Sw Channel	755.008 116 120 MHz

TM3p1, 5 MHz, high channel



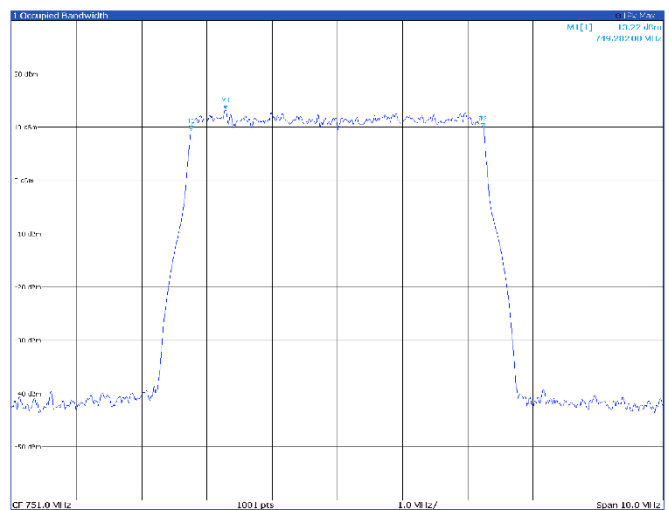
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		752.651 MHz	14.05 dBm	Occ Sw	4.510 985 053 MHz
T1	1		751.220 91 MHz	0.41 dBm	Occ Sw Channel	753.494 125 77 MHz
T2	1		754.094 91 MHz	0.17 dBm	Occ Sw Channel	755.544 116 120 MHz

TM3p1a, 5 MHz, low channel



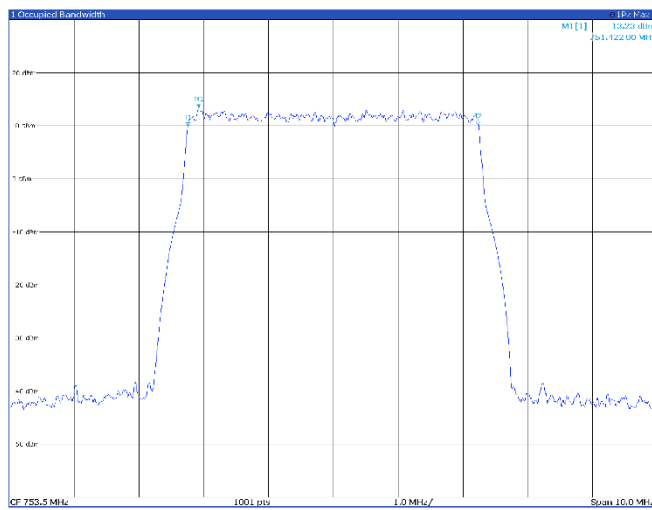
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		749.659 MHz	12.96 dBm	Occ Sw	4.486 326 932 MHz
T1	1		746.251 45 MHz	0.07 dBm	Occ Sw Channel	748.494 611 207 MHz
T2	1		753.062 95 MHz	10.00 dBm	Occ Sw Channel	755.008 116 120 MHz

TM3p1a, 5 MHz, mid channel

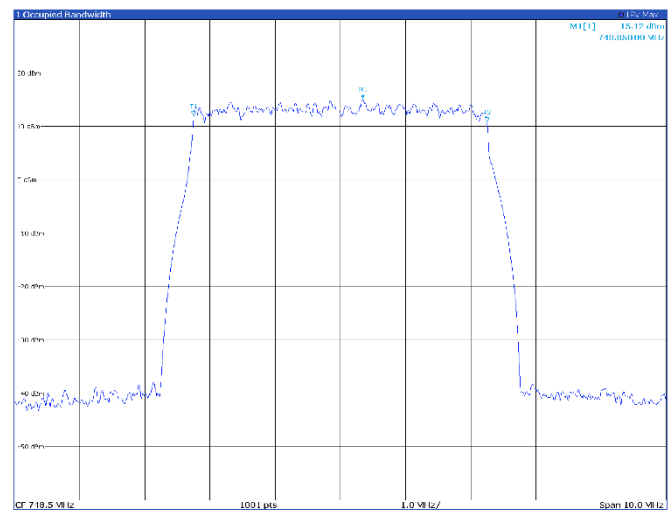


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		749.282 MHz	13.22 dBm	Occ Sw	4.485 771 31 MHz
T1	1		748.75 25 MHz	0.41 dBm	Occ Sw Channel	750.952 779 120 MHz
T2	1		750.240 12 MHz	0.04 dBm	Occ Sw Channel	752.009 235 27 MHz

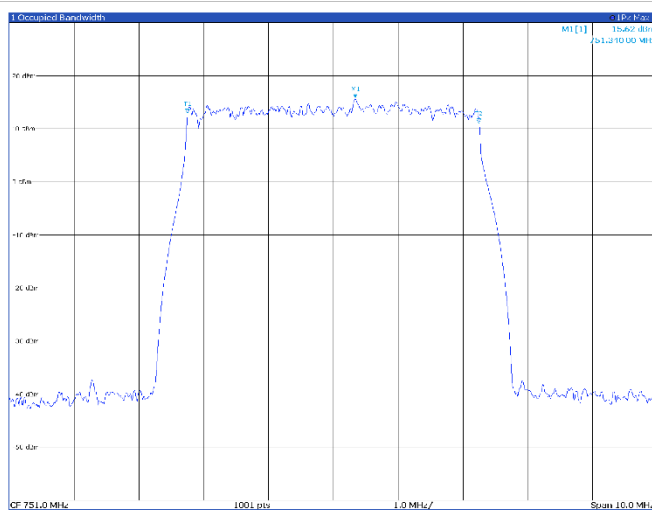
TM3p1a, 5 MHz, high channel



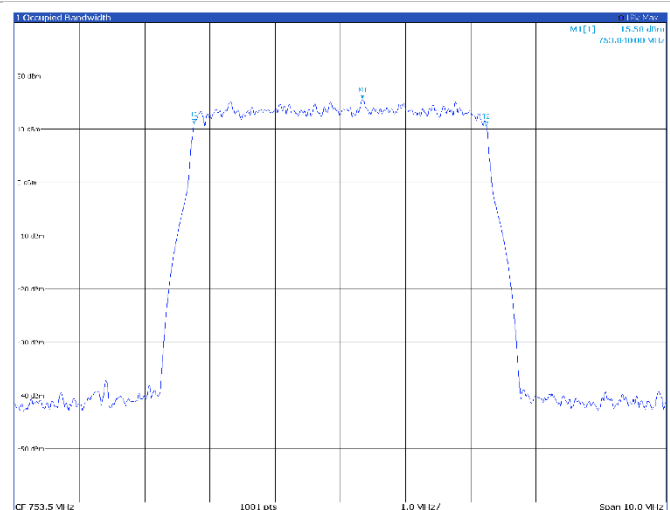
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel



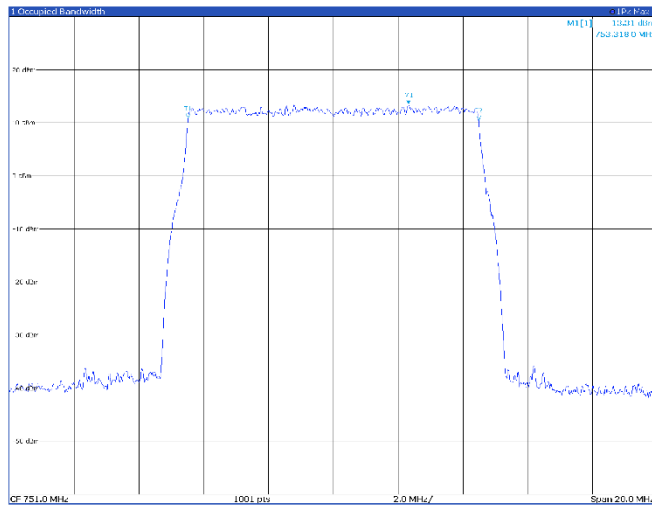
TM3p3, 5 MHz, high channel



Band B13

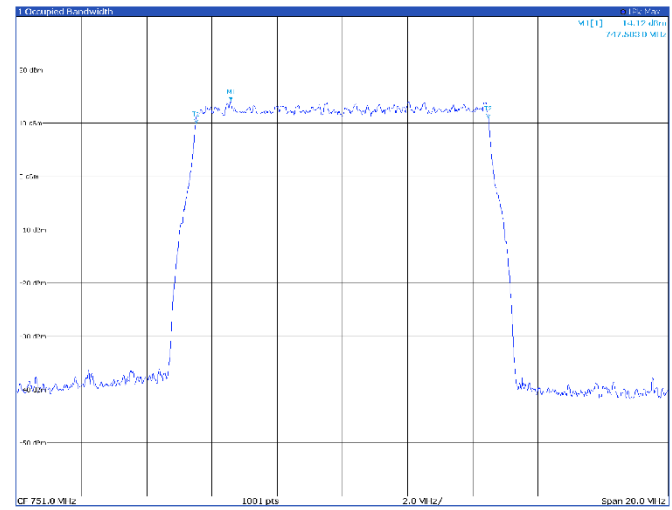
10 MHz

TM1.1, 10 MHz, mid channel



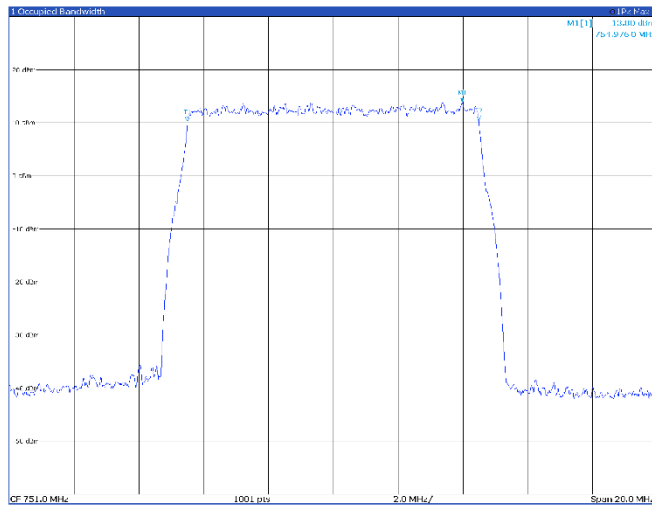
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		753.318 MHz	13.31 dBm	Occ BW	8.967329 231 MHz
M1	1		753.318 MHz	10.76 dBm	Occ BW Channel	750.955195 192 MHz
M1	1		753.318 MHz	10.76 dBm	Occ BW Channel Offset	1.40243446 MHz

TM3p1, 10 MHz, mid channel



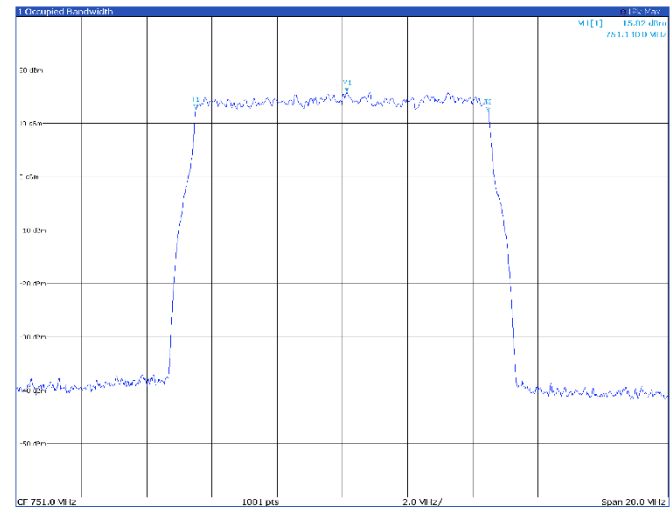
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		747.583 MHz	14.12 dBm	Occ BW	8.970552 957 MHz
M1	1		747.583 MHz	9.97 dBm	Occ BW Channel	739.992322 225 MHz
M1	1		747.583 MHz	9.97 dBm	Occ BW Channel Offset	-5.57775311 MHz

TM3p1a, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		754.976 MHz	13.80 dBm	Occ BW	8.984029 134 MHz
M1	1		754.976 MHz	10.26 dBm	Occ BW Channel	750.952435 194 MHz
M1	1		754.976 MHz	10.26 dBm	Occ BW Channel Offset	1.40243446 MHz

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		751.14 MHz	15.82 dBm	Occ BW	8.973404 075 MHz
M1	1		751.14 MHz	12.69 dBm	Occ BW Channel	750.950729 192 MHz
M1	1		751.14 MHz	12.69 dBm	Occ BW Channel Offset	-11.12165565 MHz

8.3 FCC §27.53(h)(3) 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	November 26, 2024	Temperature	22 °C
Test end date	December 13, 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 B13: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM1.1	748.5	5.05
B13	5 MHz	TM1.1	751.0	5.08
B13	5 MHz	TM1.1	753.5	5.08
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM3p1	748.5	5.13
B13	5 MHz	TM3p1	751.0	5.04
B13	5 MHz	TM3p1	753.5	5.11
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM3p1a	748.5	5.00
B13	5 MHz	TM3p1a	751.0	5.03
B13	5 MHz	TM3p1a	753.5	5.01
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM3p3	748.5	5.08
B13	5 MHz	TM3p3	751.0	5.04
B13	5 MHz	TM3p3	753.5	5.08
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM1.1	n/a	-
B13	10 MHz	TM1.1	751.0	10.03
B13	10 MHz	TM1.1	n/a	-
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM3p1	n/a	-
B13	10 MHz	TM3p1	751.0	9.99
B13	10 MHz	TM3p1	n/a	-
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM3p1a	n/a	-
B13	10 MHz	TM3p1a	751.0	10.03
B13	10 MHz	TM3p1a	n/a	-
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM3p3	n/a	-
B13	10 MHz	TM3p3	751.0	10.01
B13	10 MHz	TM3p3	n/a	-

Band B13: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM1.1	748.5	5.09
B13	5 MHz	TM1.1	751.0	5.09
B13	5 MHz	TM1.1	753.5	5.09

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM3p1	748.5	5.05
B13	5 MHz	TM3p1	751.0	5.12
B13	5 MHz	TM3p1	753.5	5.11

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM3p1a	748.5	5.03
B13	5 MHz	TM3p1a	751.0	4.99
B13	5 MHz	TM3p1a	753.5	5.03

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	5 MHz	TM3p3	748.5	5.09
B13	5 MHz	TM3p3	751.0	5.05
B13	5 MHz	TM3p3	753.5	5.00

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM1.1	n/a	-
B13	10 MHz	TM1.1	751.0	10.07
B13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM3p1	n/a	-
B13	10 MHz	TM3p1	751.0	9.99
B13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM3p1a	n/a	-
B13	10 MHz	TM3p1a	751.0	10.05
B13	10 MHz	TM3p1a	n/a	-

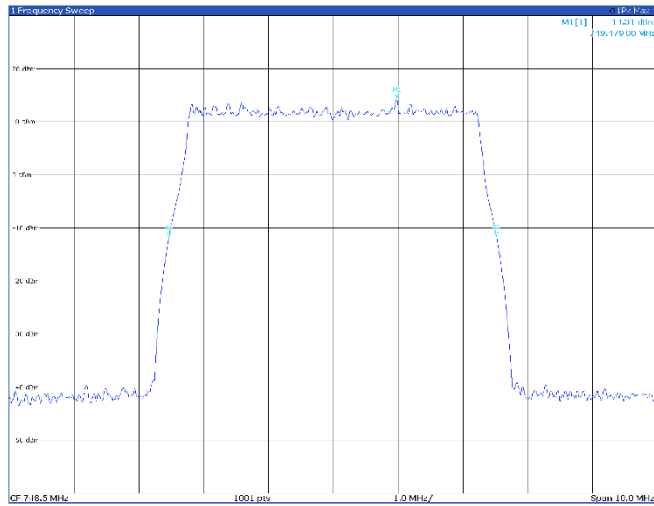
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B13	10 MHz	TM3p3	n/a	-
B13	10 MHz	TM3p3	751.0	9.99
B13	10 MHz	TM3p3	n/a	-

Antenna port 1

Band B13

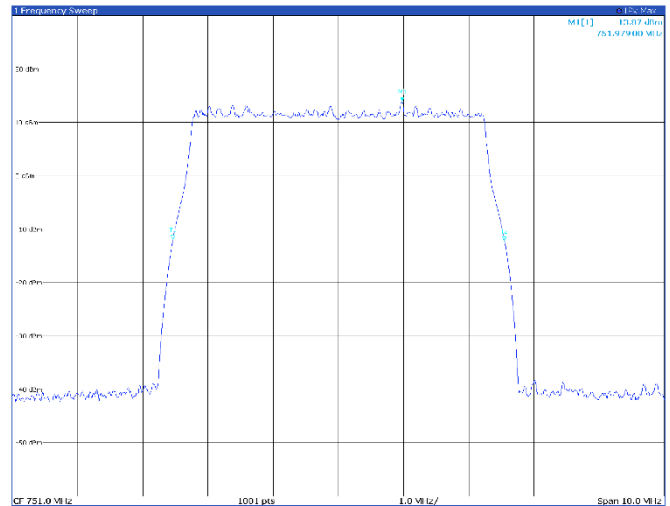
5 MHz

TM1.1, 5 MHz, low channel



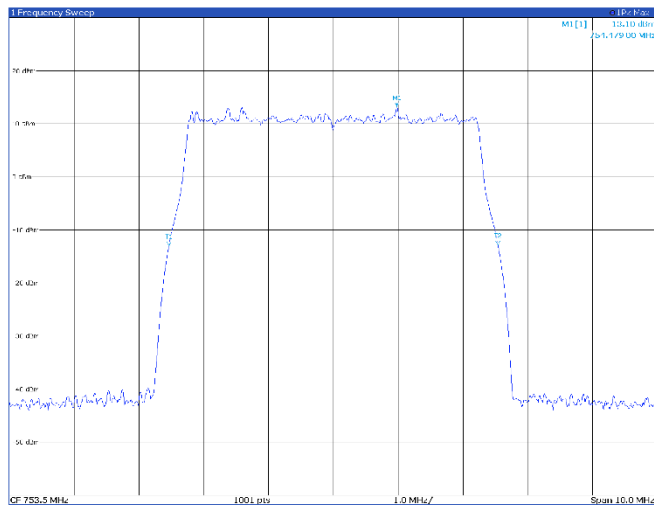
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		749.479 MHz	14.31 dBm	nB	20.0 dB
T1	1		748.952 MHz	-11.00 dBm	nB down BW	5.08 MHz
T2	1		750.007 MHz	-11.22 dBm	nB down	5.08 MHz

TM1.1, 5 MHz, mid channel



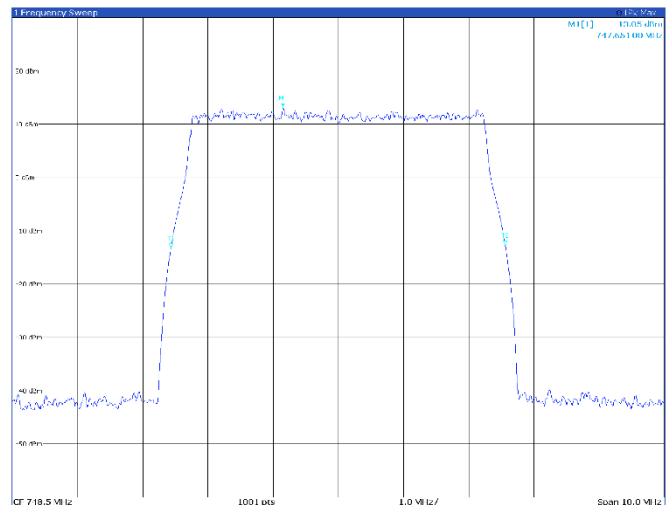
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		751.979 MHz	13.87 dBm	nB	20.0 dB
T1	1		748.452 MHz	-12.00 dBm	nB down BW	5.08 MHz
T2	1		753.547 MHz	-12.22 dBm	nB down	5.08 MHz

TM1.1, 5 MHz, high channel

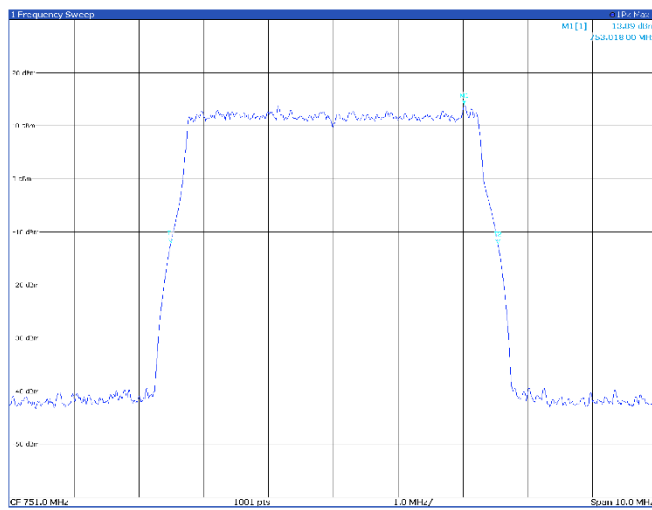


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		754.479 MHz	13.10 dBm	nB	20.0 dB
T1	1		750.952 MHz	-11.09 dBm	nB down BW	5.08 MHz
T2	1		756.007 MHz	-11.14 dBm	nB down	5.08 MHz

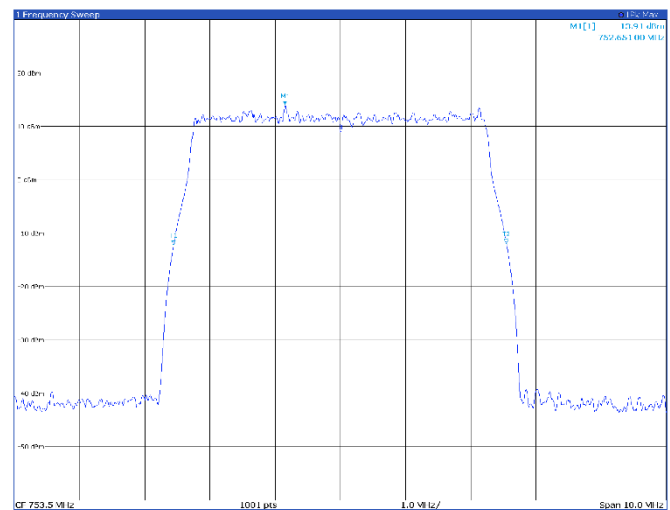
TM3p1, 5 MHz, low channel



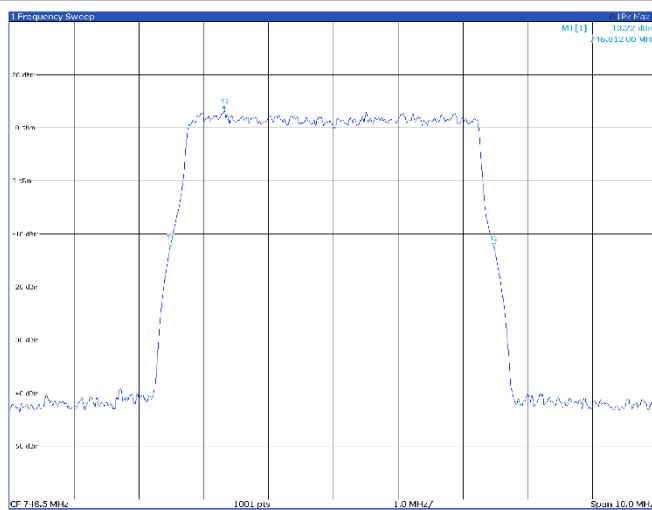
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		747.651 MHz	13.05 dBm	nB	20.0 dB
T1	1		740.952 MHz	-11.22 dBm	nB down BW	5.13 MHz
T2	1		751.007 MHz	-11.00 dBm	nB down	5.13 MHz

TM3p1, 5 MHz, mid channel


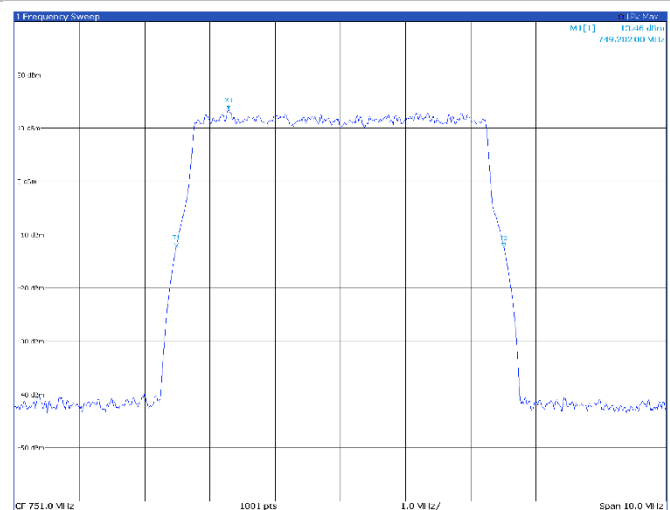
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1	1	752.018 MHz	13.89 dBm	nB	20 dB	5.04 MHz
M2	1	1	752.018 MHz	13.89 dBm	nB	20 dB	5.04 MHz
M3	1	1	752.018 MHz	13.89 dBm	nB	20 dB	5.04 MHz

TM3p1, 5 MHz, high channel


Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1	1	752.651 MHz	13.91 dBm	nB	20 dB	5.11 MHz
M2	1	1	752.651 MHz	13.91 dBm	nB	20 dB	5.11 MHz
M3	1	1	752.651 MHz	13.91 dBm	nB	20 dB	5.11 MHz

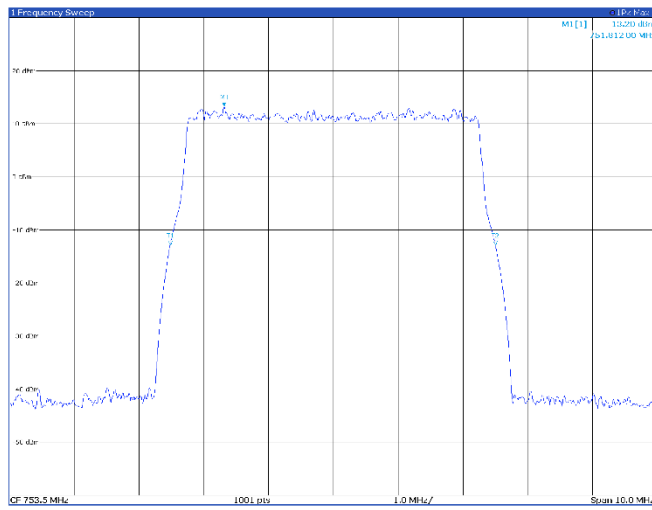
TM3p1a, 5 MHz, low channel


Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1	1	746.812 MHz	13.22 dBm	nB	20 dB	5.00 MHz
M2	1	1	746.812 MHz	13.22 dBm	nB	20 dB	5.00 MHz
M3	1	1	746.812 MHz	13.22 dBm	nB	20 dB	5.00 MHz

TM3p1a, 5 MHz, mid channel


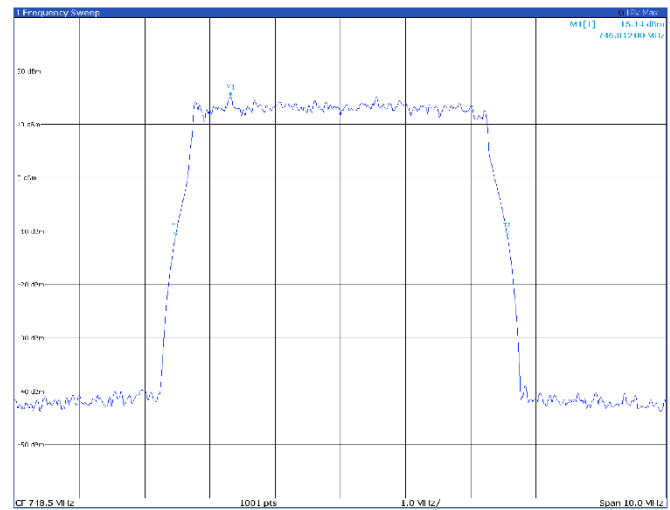
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1	1	749.282 MHz	13.46 dBm	nB	20 dB	5.03 MHz
M2	1	1	749.282 MHz	13.46 dBm	nB	20 dB	5.03 MHz
M3	1	1	749.282 MHz	13.46 dBm	nB	20 dB	5.03 MHz

TM3p1a, 5 MHz, high channel



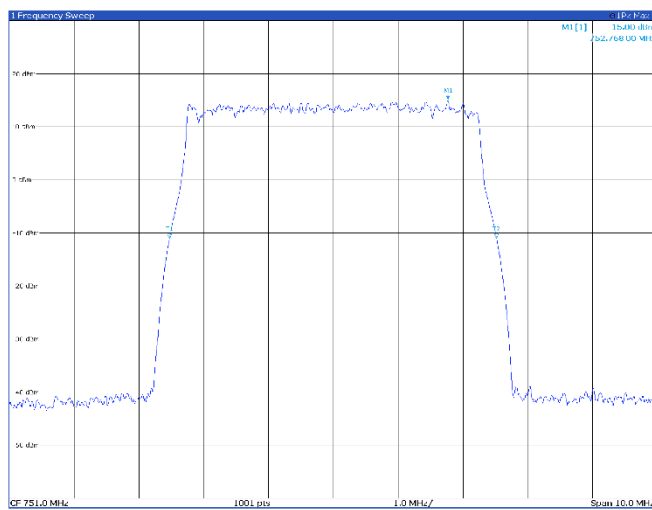
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		751.812 MHz	13.20 dBm	nB	5.01 MHz
M1	1		750.952 MHz	-12.00 dBm	nB down BW	
M2	1		752.668 MHz	-12.00 dBm	nB down BW	

TM3p3, 5 MHz, low channel



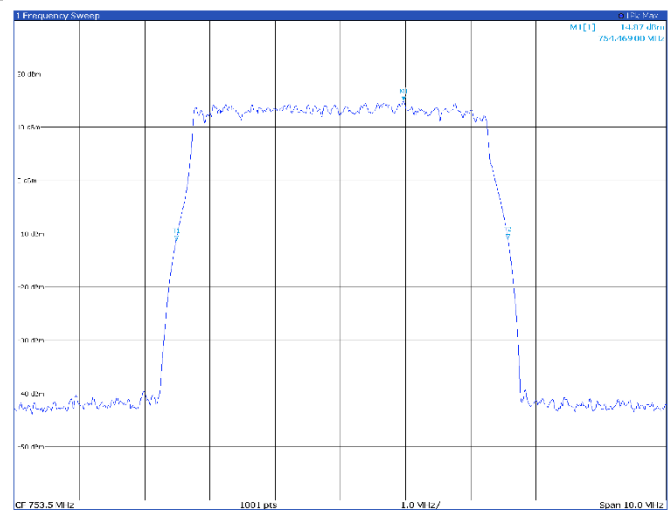
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		746.812 MHz	15.14 dBm	nB	5.08 MHz
M1	1		745.952 MHz	-10.00 dBm	nB down BW	
M2	1		747.668 MHz	-10.00 dBm	nB down BW	

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		752.768 MHz	15.00 dBm	nB	5.04 MHz
M1	1		751.908 MHz	-11.00 dBm	nB down BW	
M2	1		753.628 MHz	-11.00 dBm	nB down BW	

TM3p3, 5 MHz, high channel

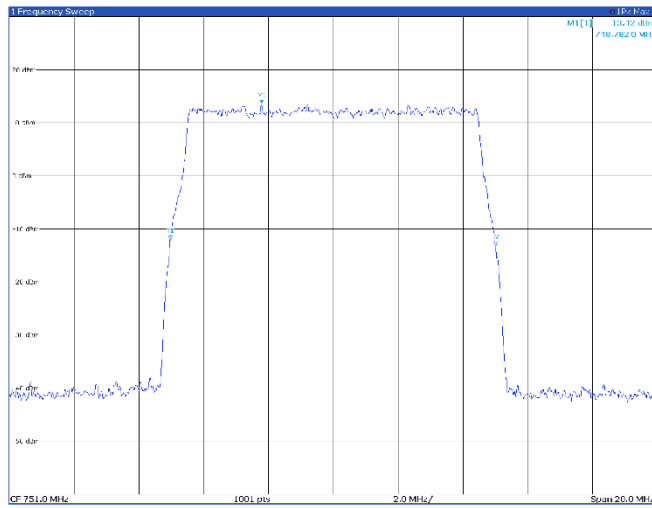


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		754.469 MHz	14.67 dBm	nB	5.08 MHz
M1	1		753.609 MHz	-11.00 dBm	nB down BW	
M2	1		755.329 MHz	-11.00 dBm	nB down BW	

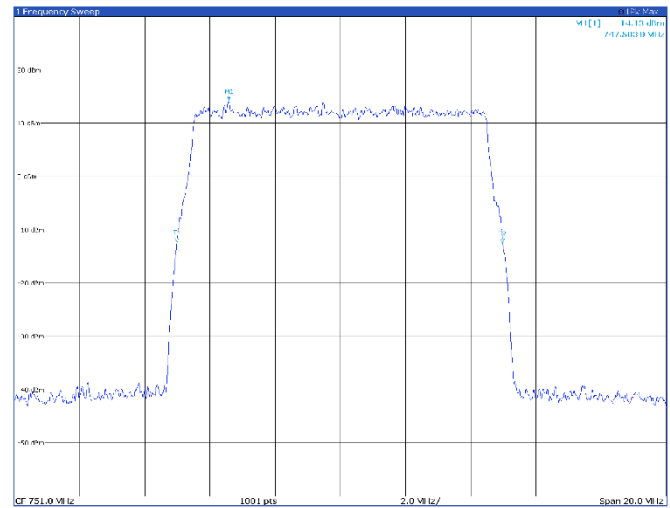
Band B13

10 MHz

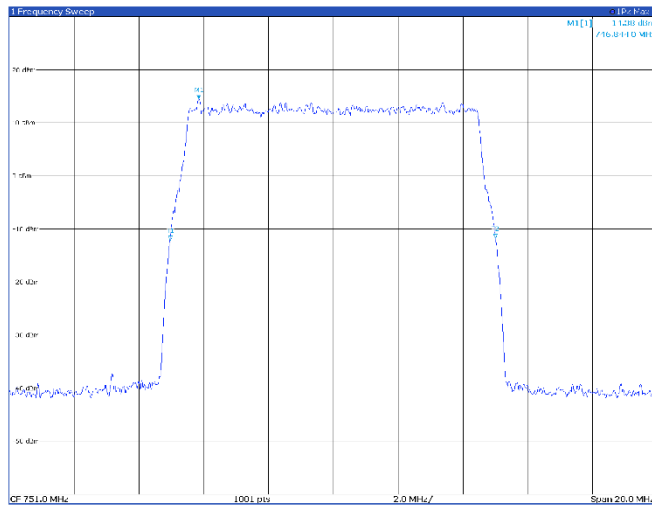
TM1.1, 10 MHz, mid channel



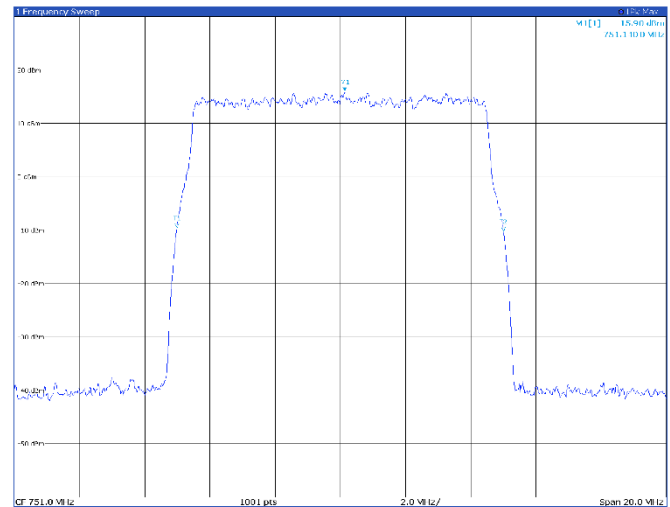
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel

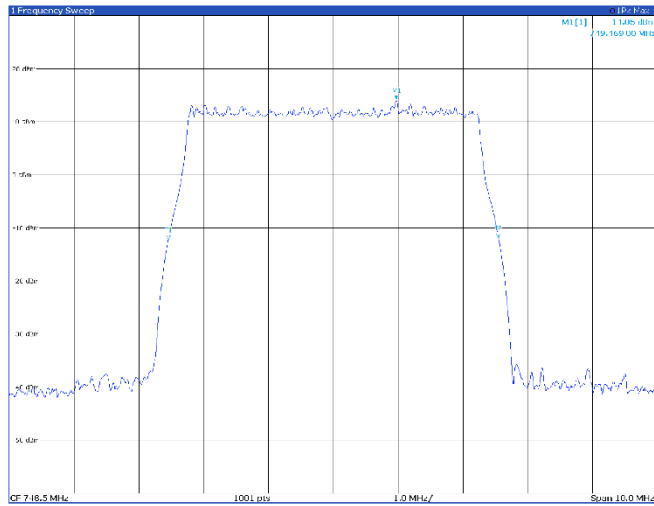


Antenna port 2

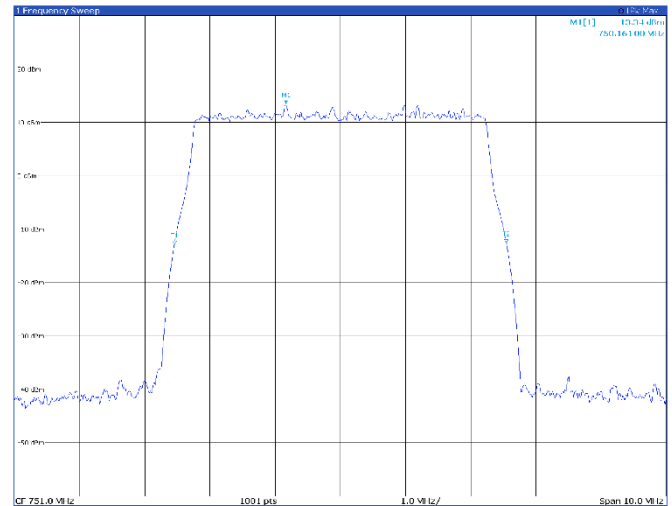
Band B13

5 MHz

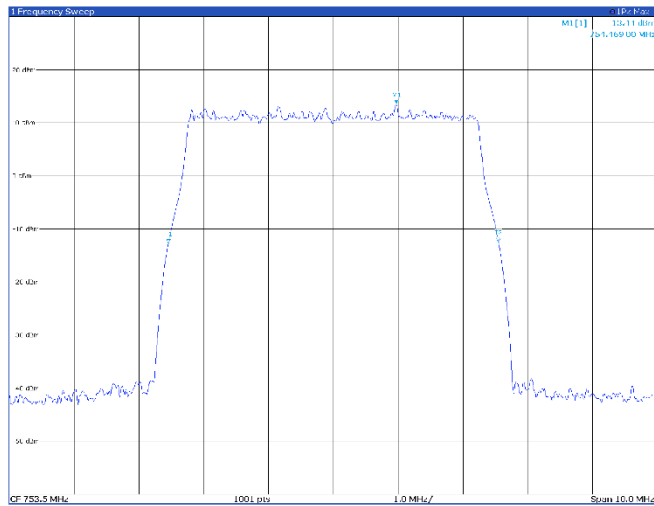
TM1.1, 5 MHz, low channel



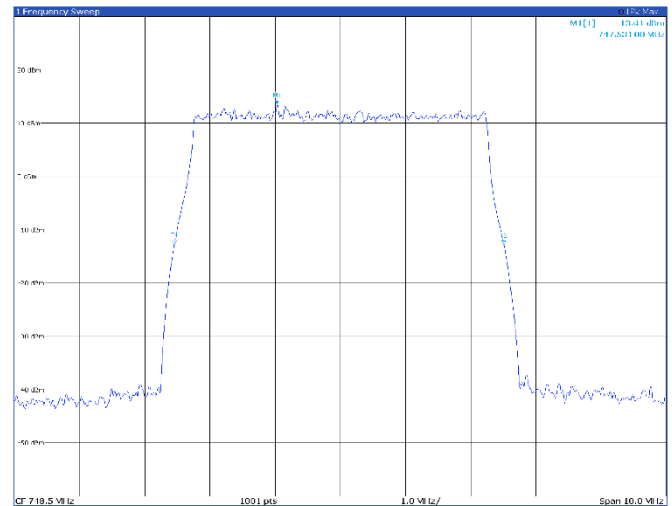
TM1.1, 5 MHz, mid channel



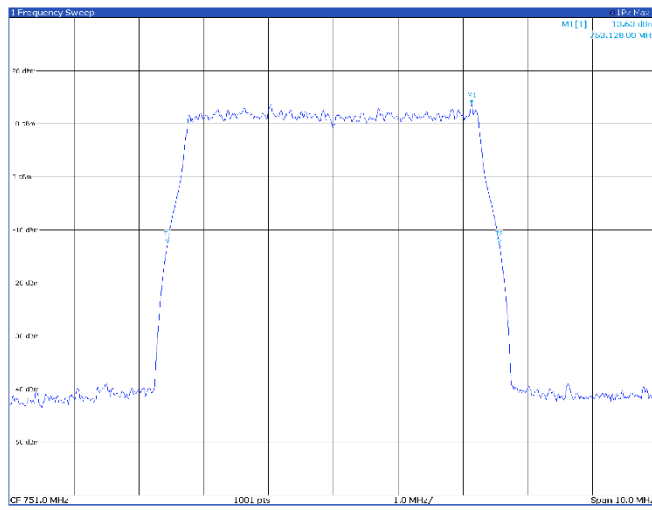
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

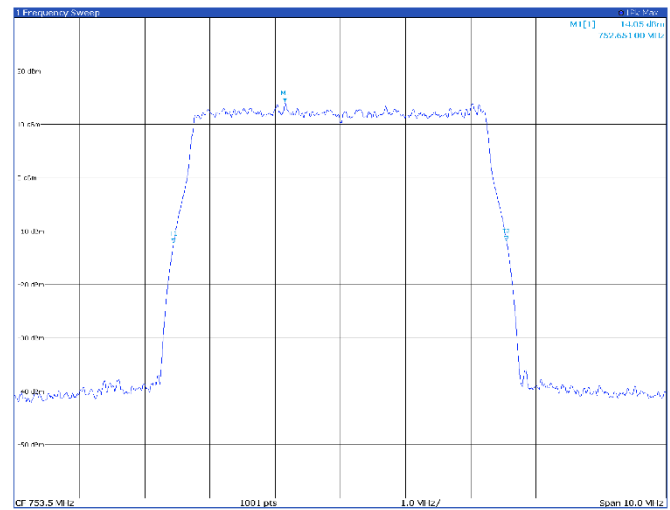


TM3p1, 5 MHz, mid channel



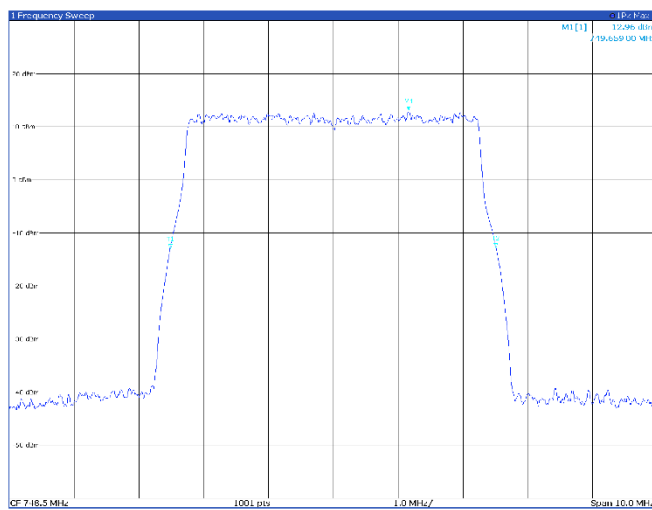
Type	Ref	Freq	X Value	Y Value	nB	Function	Function Result
M1	1	752.128 MHz	752.128 MHz	13.63 dBm	nB	30.0 dB	5.12 MHz
M2	1	753.128 MHz	753.128 MHz	13.63 dBm	nB	30.0 dB	5.12 MHz

TM3p1, 5 MHz, high channel



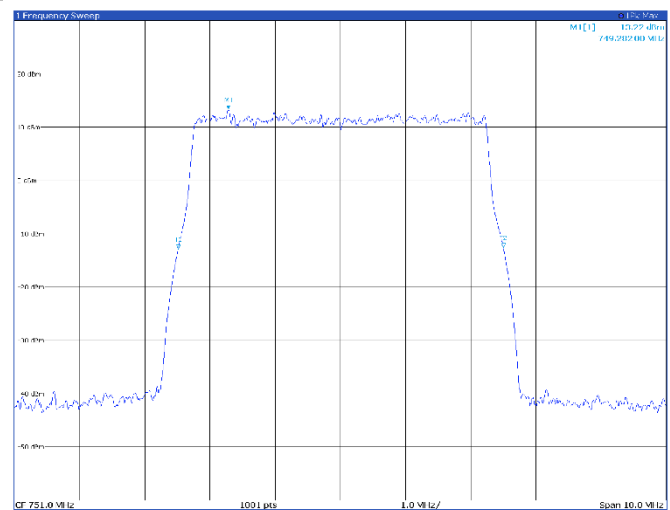
Type	Ref	Freq	X Value	Y Value	nB	Function	Function Result
M1	1	753.151 MHz	753.151 MHz	14.05 dBm	nB	30.0 dB	5.11 MHz
M2	1	753.651 MHz	753.651 MHz	14.05 dBm	nB	30.0 dB	5.11 MHz

TM3p1a, 5 MHz, low channel



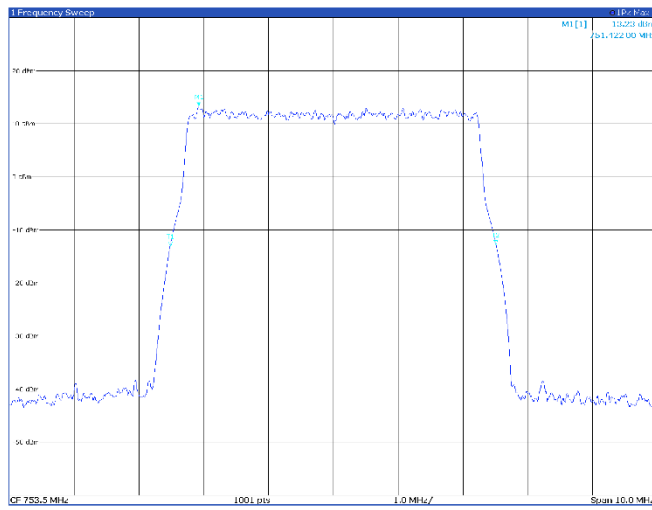
Type	Ref	Freq	X Value	Y Value	nB	Function	Function Result
M1	1	749.609 MHz	749.609 MHz	12.96 dBm	nB	30.0 dB	5.03 MHz
M2	1	749.659 MHz	749.659 MHz	12.96 dBm	nB	30.0 dB	5.03 MHz

TM3p1a, 5 MHz, mid channel



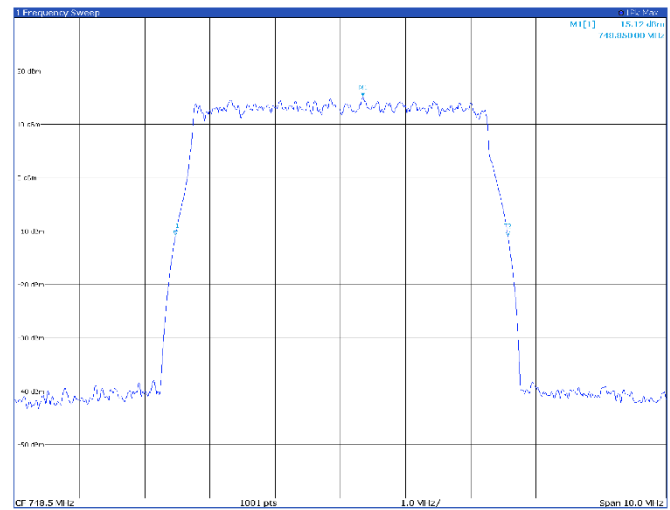
Type	Ref	Freq	X Value	Y Value	nB	Function	Function Result
M1	1	749.382 MHz	749.382 MHz	13.22 dBm	nB	30.0 dB	4.99 MHz
M2	1	749.482 MHz	749.482 MHz	13.22 dBm	nB	30.0 dB	4.99 MHz

TM3p1a, 5 MHz, high channel



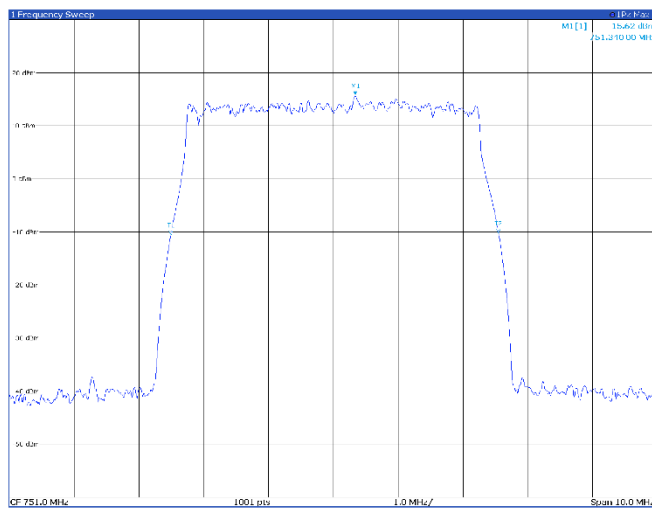
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
P1	1		751.422 MHz	13.23 dBm	nB	30.0 dB	5.03 MHz
P1	1		750.952 MHz	-10.00 dBm	nB	down BW	
P2	1		751.892 MHz	-10.00 dBm	nB	up BW	

TM3p3, 5 MHz, low channel



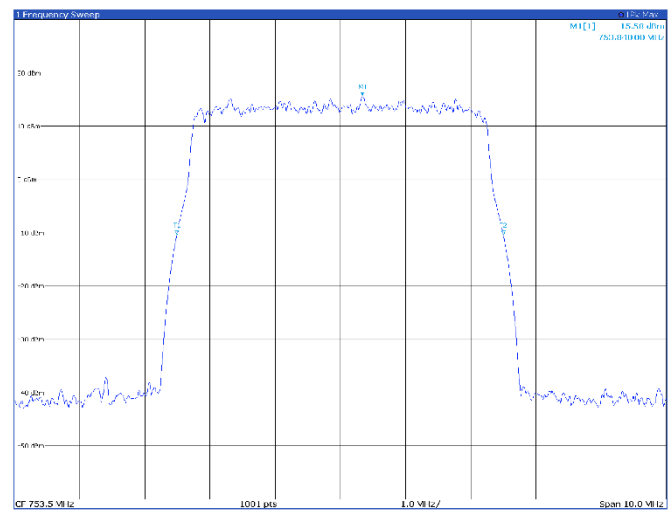
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
P1	1		749.855 MHz	15.12 dBm	nB	30.0 dB	5.09 MHz
P1	1		749.375 MHz	-10.00 dBm	nB	down BW	
P2	1		750.335 MHz	-10.00 dBm	nB	up BW	

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
P1	1		753.34 MHz	15.62 dBm	nB	30.0 dB	5.05 MHz
P1	1		752.862 MHz	-10.00 dBm	nB	down BW	
P2	1		753.818 MHz	-10.00 dBm	nB	up BW	

TM3p3, 5 MHz, high channel

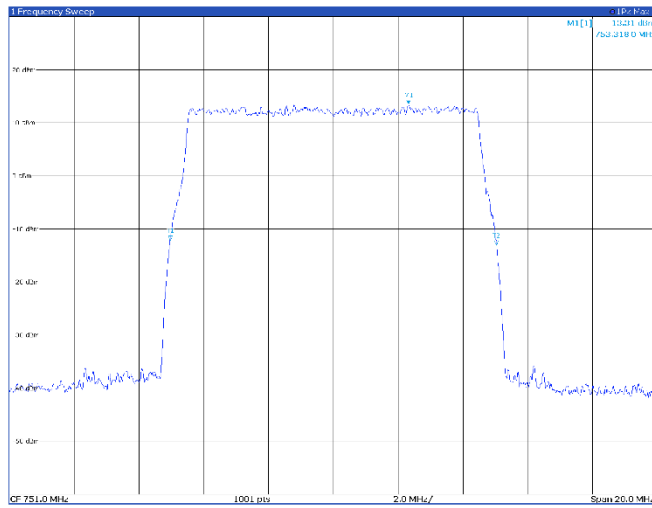


Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
P1	1		753.84 MHz	15.58 dBm	nB	30.0 dB	5.00 MHz
P1	1		753.362 MHz	-10.00 dBm	nB	down BW	
P2	1		754.318 MHz	-10.00 dBm	nB	up BW	

Band B13

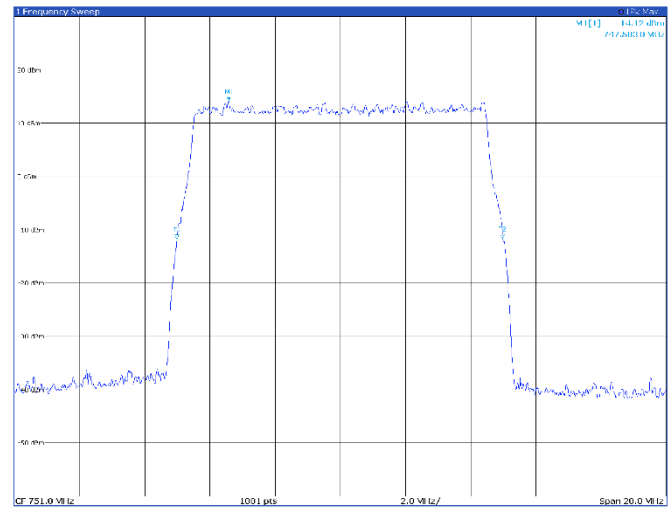
10 MHz

TM1.1, 10 MHz, mid channel



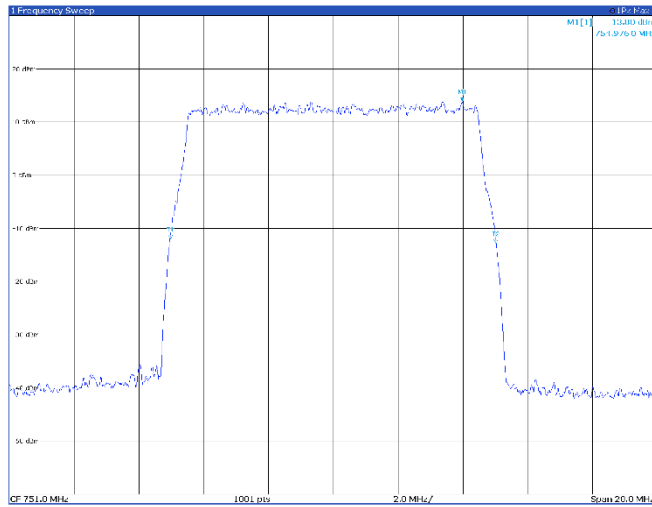
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		753.318 MHz	13.51 dBm	nB	20.0 dB	10.07 MHz
M1	1		753.318 MHz	13.51 dBm	nB	20.0 dB	10.07 MHz
M1	1		753.318 MHz	13.51 dBm	nB	20.0 dB	10.07 MHz

TM3p1, 10 MHz, mid channel



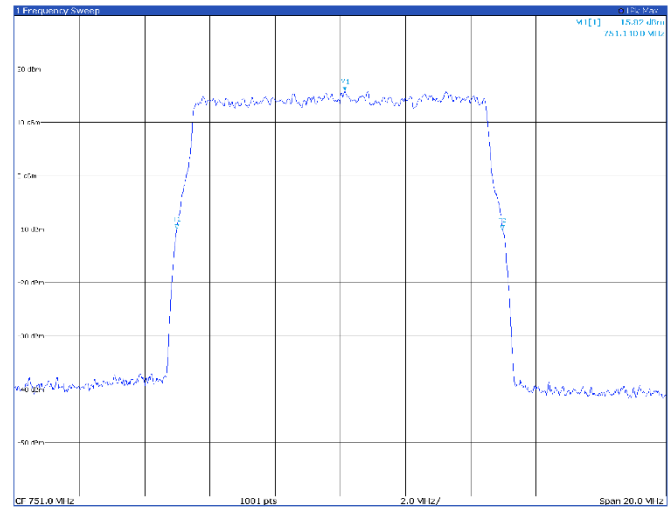
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		747.583 MHz	14.12 dBm	nB	20.0 dB	9.99 MHz
M1	1		747.583 MHz	14.12 dBm	nB	20.0 dB	9.99 MHz
M1	1		747.583 MHz	14.12 dBm	nB	20.0 dB	9.99 MHz

TM3p1a, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		754.976 MHz	13.80 dBm	nB	20.0 dB	10.05 MHz
M1	1		754.976 MHz	13.80 dBm	nB	20.0 dB	10.05 MHz
M1	1		754.976 MHz	13.80 dBm	nB	20.0 dB	10.05 MHz

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		751.14 MHz	15.02 dBm	nB	20.0 dB	9.99 MHz
M1	1		751.14 MHz	15.02 dBm	nB	20.0 dB	9.99 MHz
M1	1		751.14 MHz	15.02 dBm	nB	20.0 dB	9.99 MHz

8.4 FCC §27.50(b)(4) Output power

8.4.1 Definitions and limits

(b) The following power and antenna height limits apply to transmitters operating in the **746-758 MHz**, 775-788 MHz and 805-806 MHz bands:

(4) Fixed and base stations transmitting a signal in the 746-757 MHz and 776-787 MHz bands with an emission bandwidth greater than 1 MHz must not exceed an ERP of **1000 watts/MHz (60 dBm/MHz)** and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section.

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

8.4.2 Test summary

Test start date	November 26, 2024	Temperature	22 °C
Test end date	December 13, 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	$\geq 1.5 \times \text{OBW}$
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 B13:

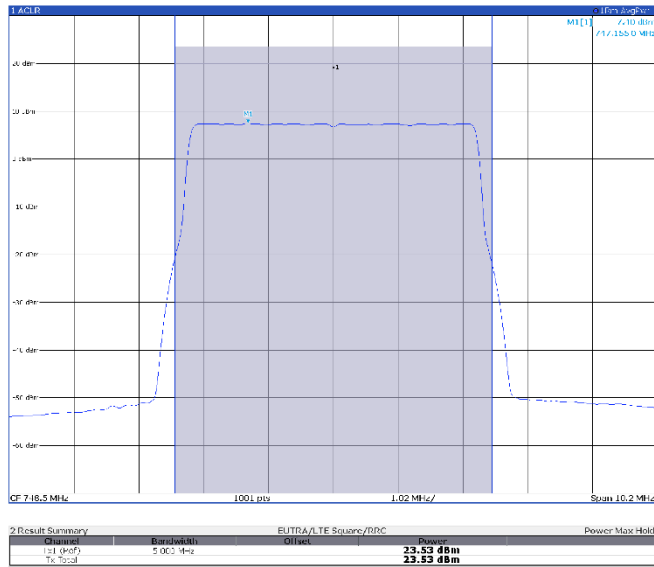
Modulation	OBW (MHz)	Frequency (MHz)	Measured Power Density (dBm/MHz) port 1	Measured Power Density (dBm/MHz) port 2	Antenna Gain Max (dBi)	Total EIRP Power Density (dBm/MHz)	Measured Power (dBm) port 1	Measured Power (dBm) port 2	Limits Power (dBm)	Margin (dB)
TM1.1	5	748.5	7.40	7.16	3.7	13.99	23.53	23.39	60.0	-46.01
TM3p1	5	748.5	6.71	6.58	3.7	13.36	22.89	22.70	60.0	-46.64
TM3p1a	5	748.5	6.74	6.69	3.7	13.43	22.91	22.78	60.0	-46.57
TM3p3	5	748.5	8.16	8.08	3.7	14.83	22.83	22.72	60.0	-45.17
TM1.1	5	751.0	6.95	6.87	3.7	13.62	23.45	23.00	60.0	-46.38
TM3p1	5	751.0	6.84	6.73	3.7	13.50	22.93	22.84	60.0	-46.50
TM3p1a	5	751.0	6.88	6.86	3.7	13.58	23.00	22.99	60.0	-46.42
TM3p3	5	751.0	8.21	8.22	3.7	14.93	22.96	22.84	60.0	-45.07
TM1.1	5	753.5	6.82	6.81	3.7	13.53	23.00	22.95	60.0	-46.47
TM3p1	5	753.5	6.86	6.92	3.7	13.60	22.90	22.96	60.0	-46.40
TM3p1a	5	753.5	6.84	6.93	3.7	13.60	22.87	22.97	60.0	-46.40
TM3p3	5	753.5	8.22	8.28	3.7	14.96	22.88	22.96	60.0	-45.04
TM1.1	10	n/a	-	-	-	-	-	-	-	-
TM3p1	10	n/a	-	-	-	-	-	-	-	-
TM3p1a	10	n/a	-	-	-	-	-	-	-	-
TM3p3	10	n/a	-	-	-	-	-	-	-	-
TM1.1	10	751.0	3.70	3.80	3.7	10.46	22.91	22.88	60.0	-49.54
TM3p1	10	751.0	3.73	3.96	3.7	10.56	22.85	22.95	60.0	-49.44
TM3p1a	10	751.0	3.82	3.89	3.7	10.57	22.88	22.81	60.0	-49.43
TM3p3	10	751.0	5.40	5.40	3.7	12.11	22.88	22.86	60.0	-47.89
TM1.1	10	n/a	-	-	-	-	-	-	-	-
TM3p1	10	n/a	-	-	-	-	-	-	-	-
TM3p1a	10	n/a	-	-	-	-	-	-	-	-
TM3p3	10	n/a	-	-	-	-	-	-	-	-

Antenna port 1

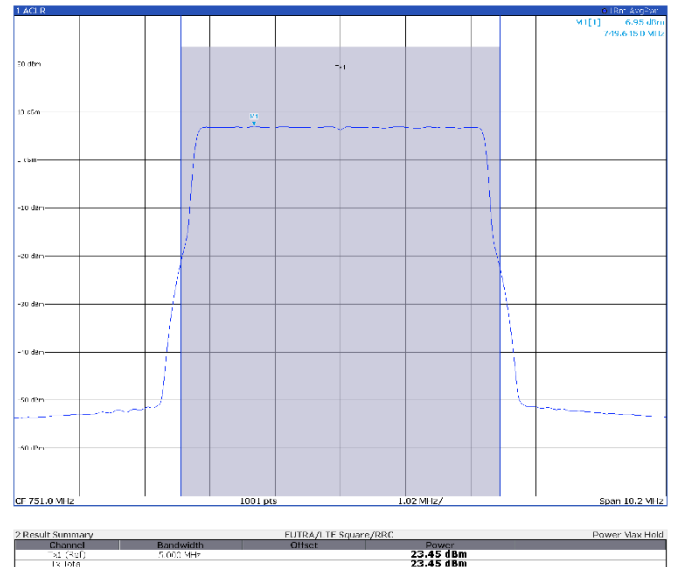
Band B13

5 MHz

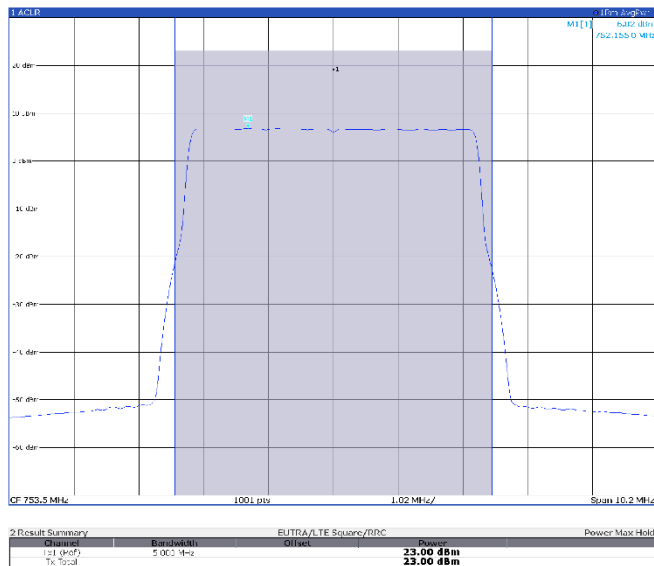
TM1.1, 5 MHz, low channel



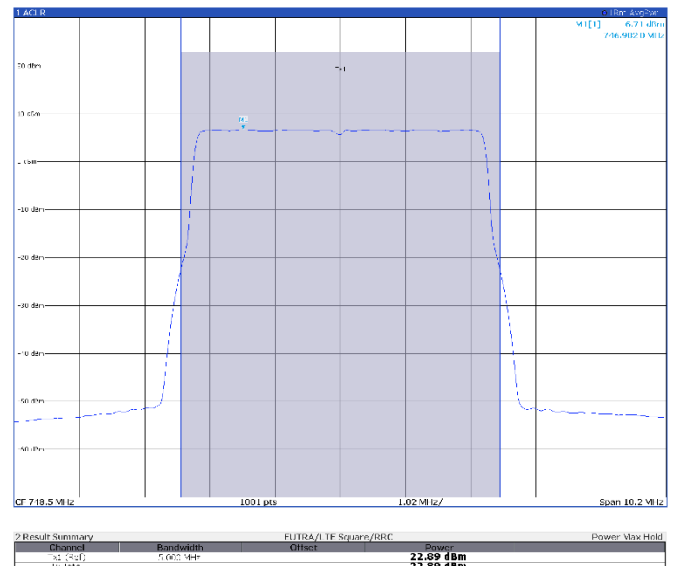
TM1.1, 5 MHz, mid channel



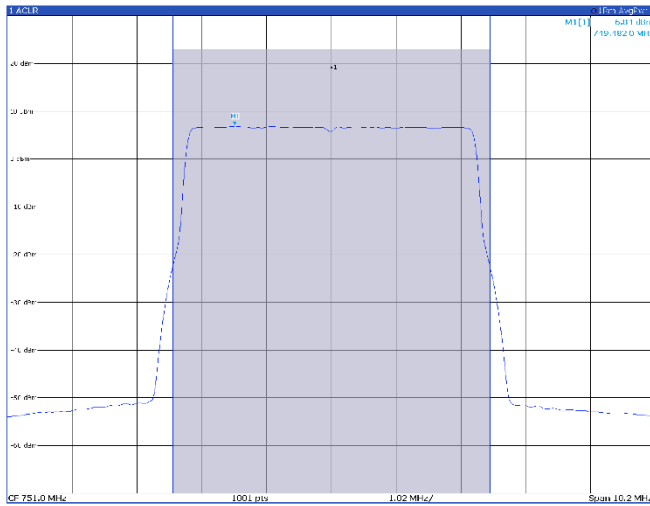
TM1.1, 5 MHz, high channel



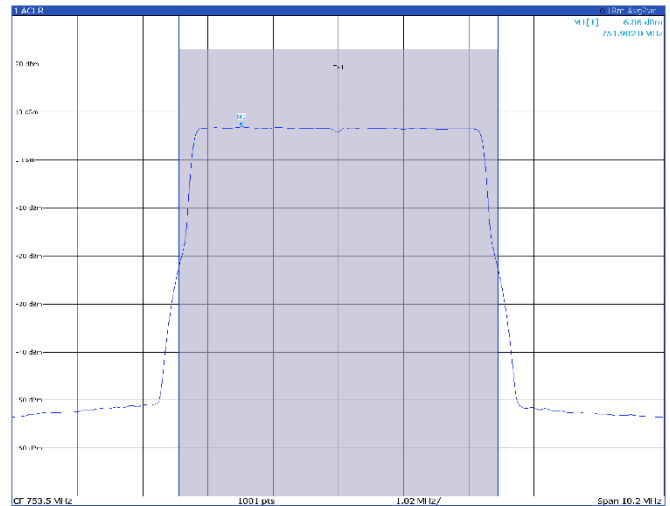
TM3p1, 5 MHz, low channel



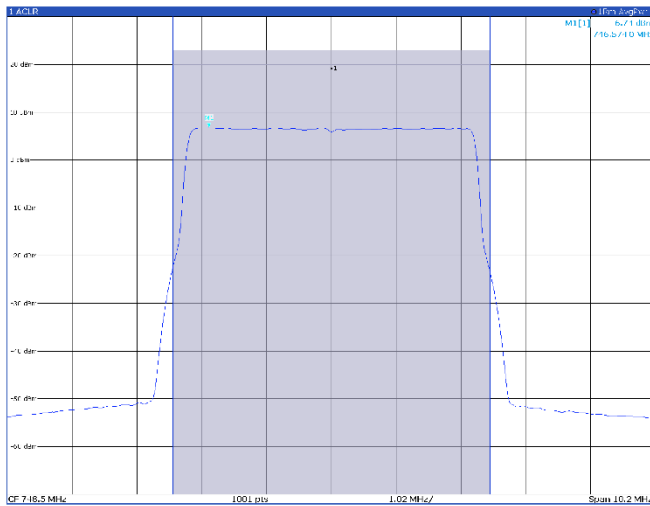
TM3p1, 5 MHz, mid channel



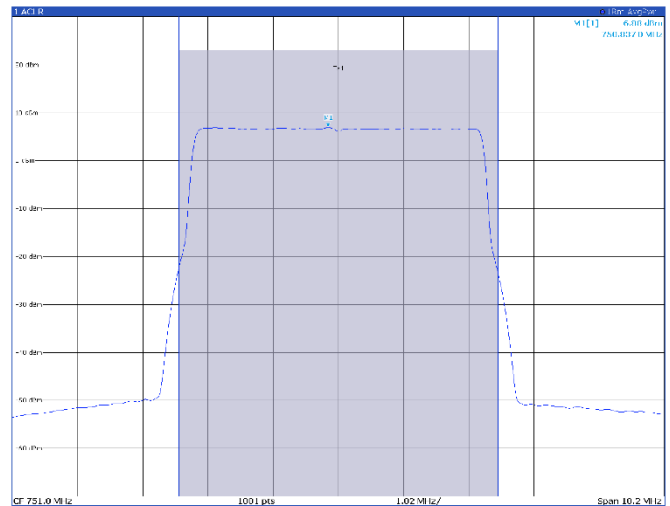
TM3p1, 5 MHz, high channel



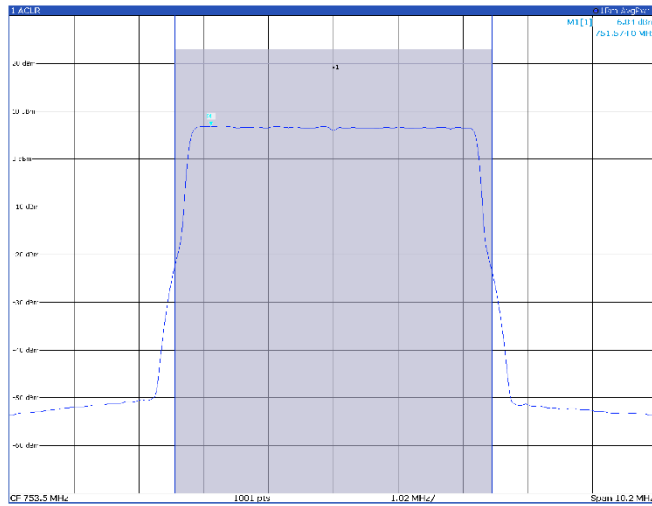
TM3p1a, 5 MHz, low channel



TM3p1a, 5 MHz, mid channel

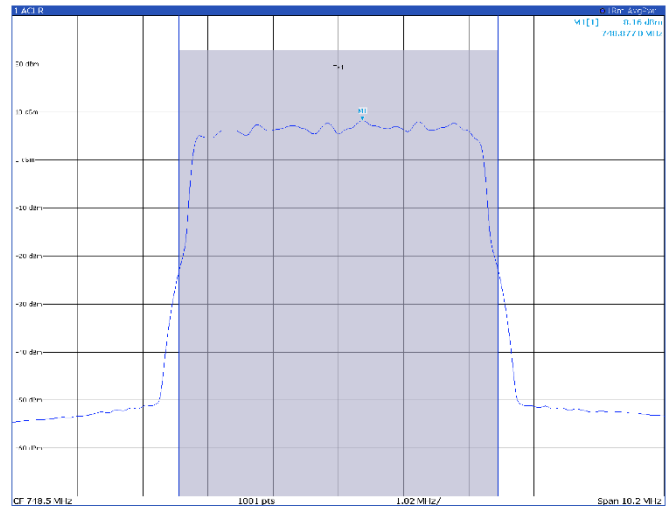


TM3p1a, 5 MHz, high channel



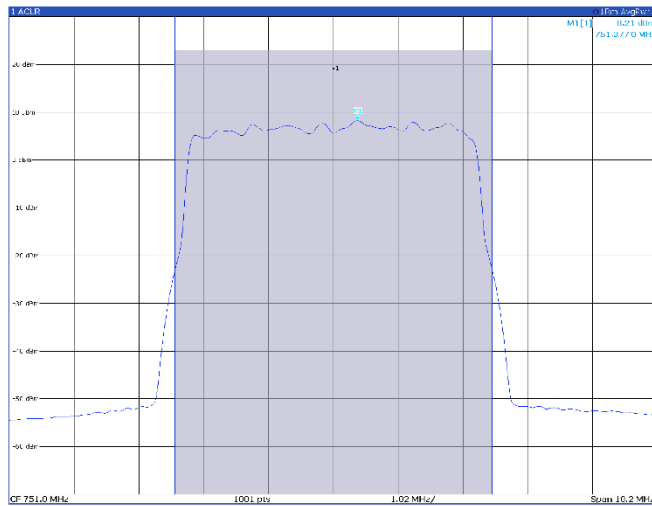
2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dof)	5.000 MHz		22.87 dBm
Tx Total			22.87 dBm

TM3p3, 5 MHz, low channel



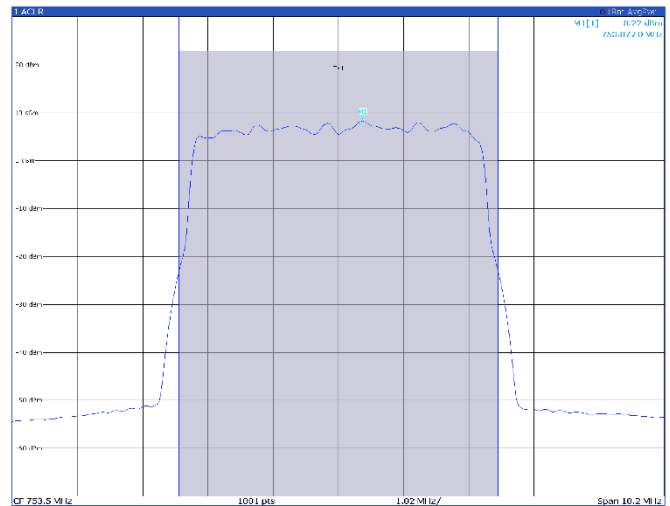
2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dof)	5.000 MHz		22.83 dBm
Tx Total			22.83 dBm

TM3p3, 5 MHz, mid channel



2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dof)	5.000 MHz		22.96 dBm
Tx Total			22.96 dBm

TM3p3, 5 MHz, high channel

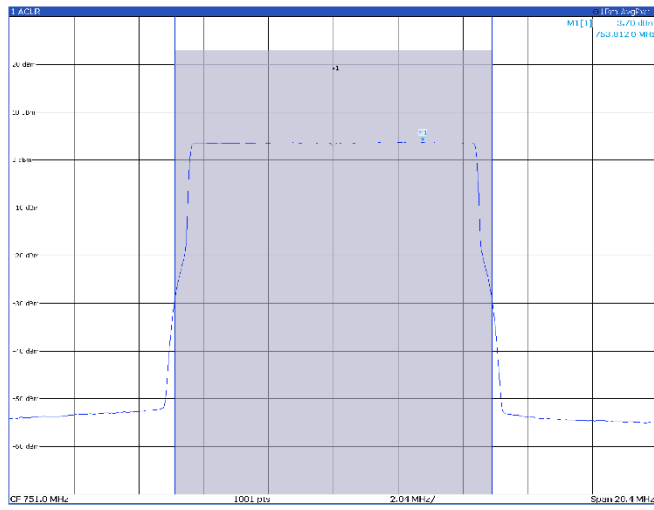


2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dof)	5.000 MHz		22.88 dBm
Tx Total			22.88 dBm

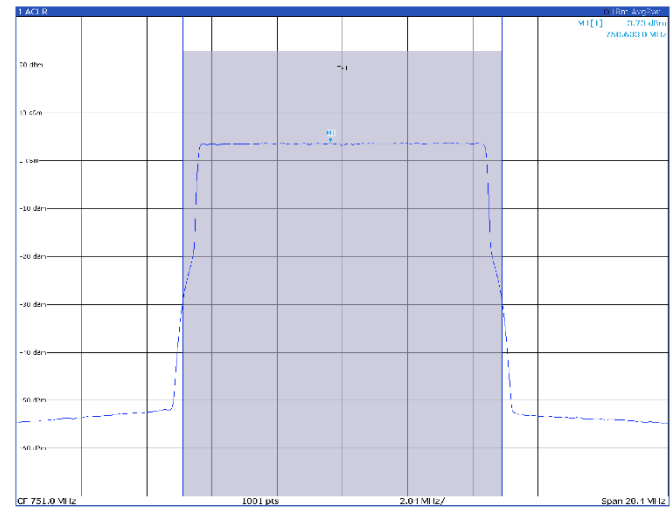
Band B13

10 MHz

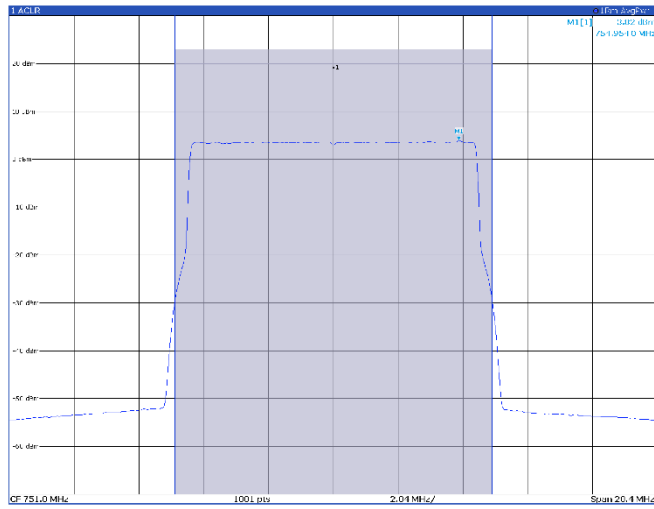
TM1.1, 10 MHz, mid channel



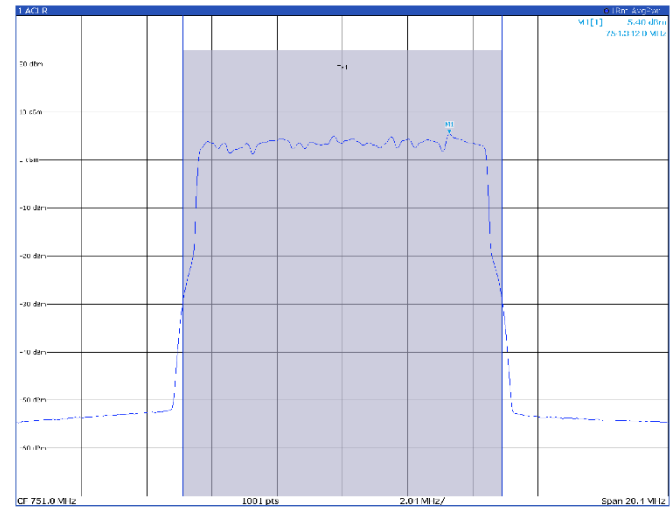
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel

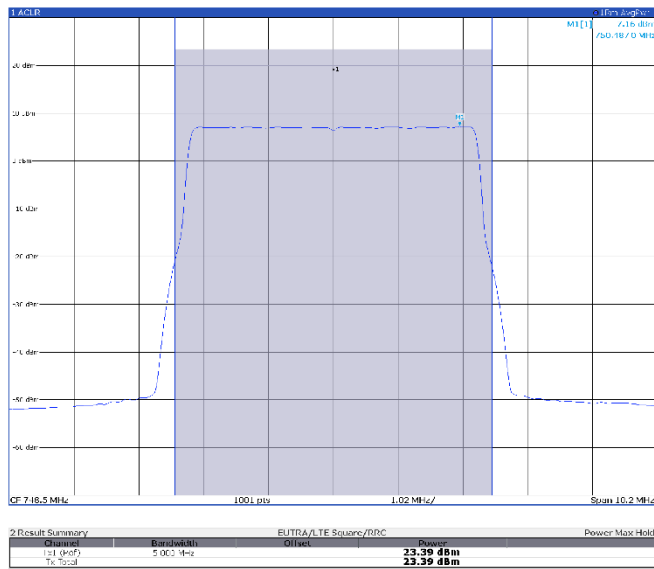


Antenna port 2

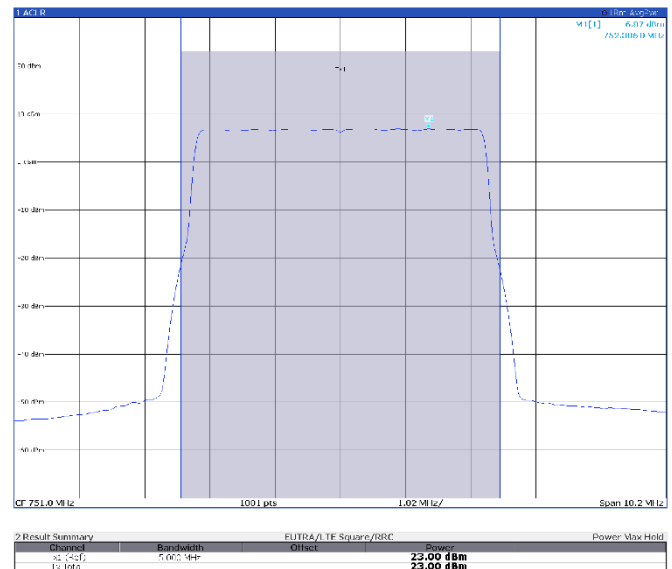
Band B13

5 MHz

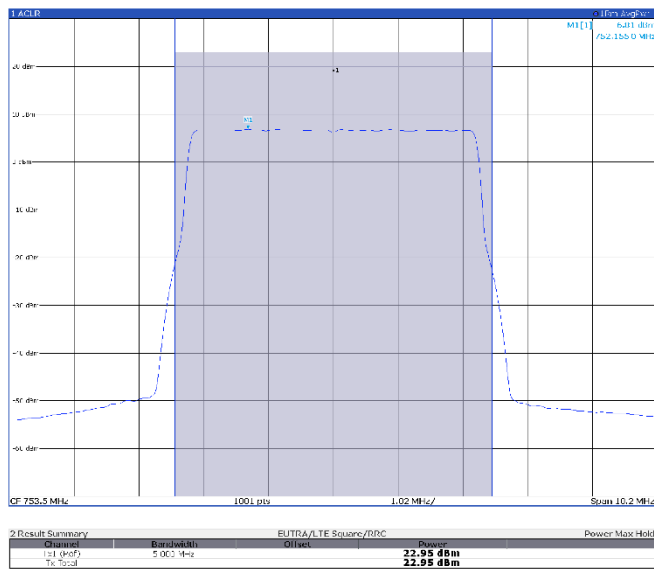
TM1.1, 5 MHz, low channel



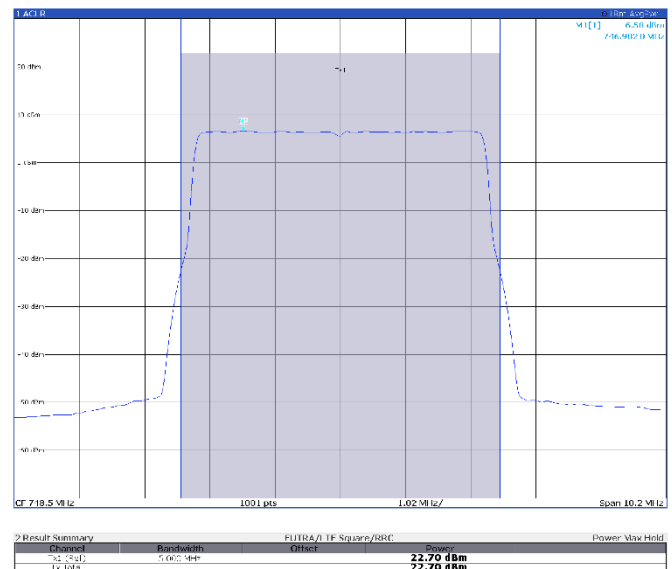
TM1.1, 5 MHz, mid channel



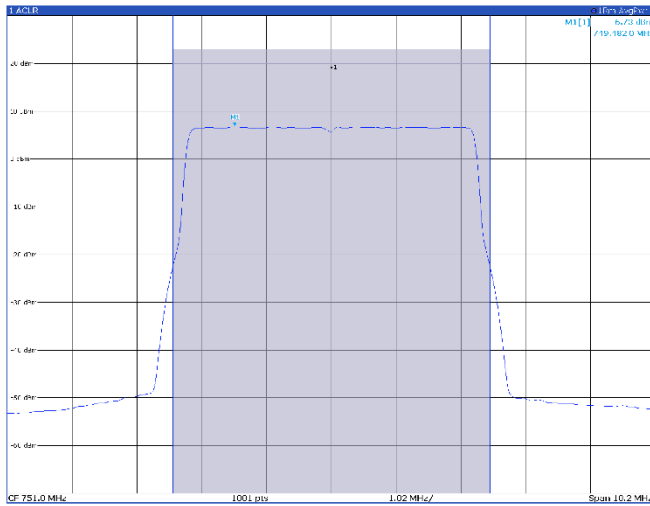
TM1.1, 5 MHz, high channel



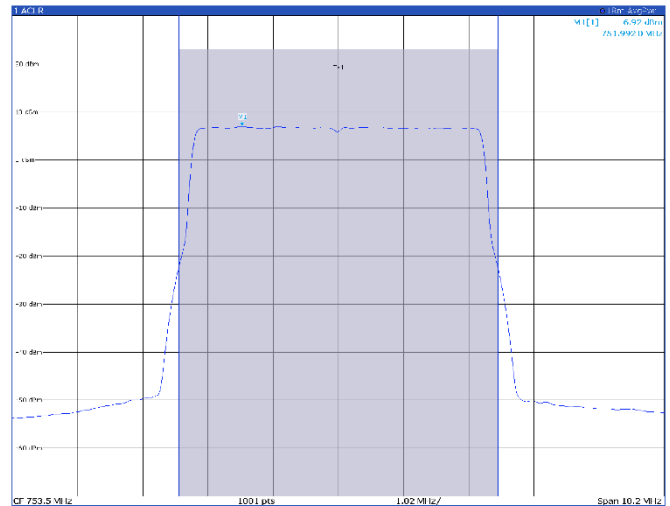
TM3p1, 5 MHz, low channel



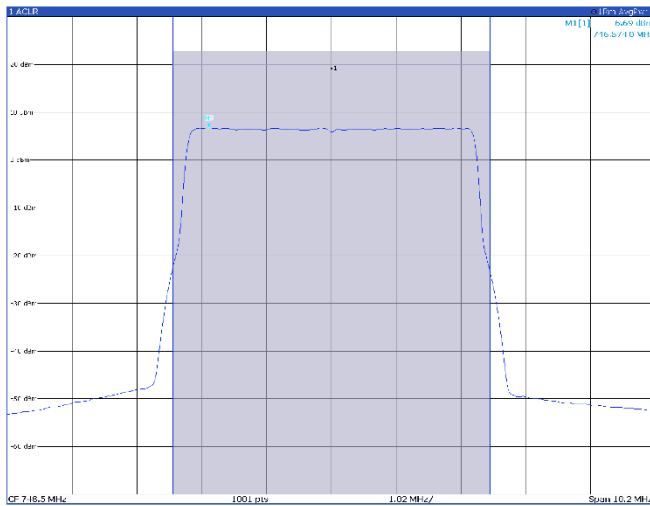
TM3p1, 5 MHz, mid channel



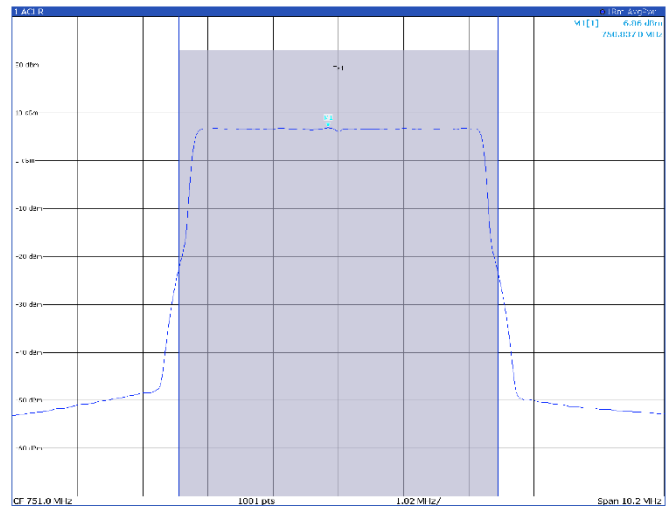
TM3p1, 5 MHz, high channel



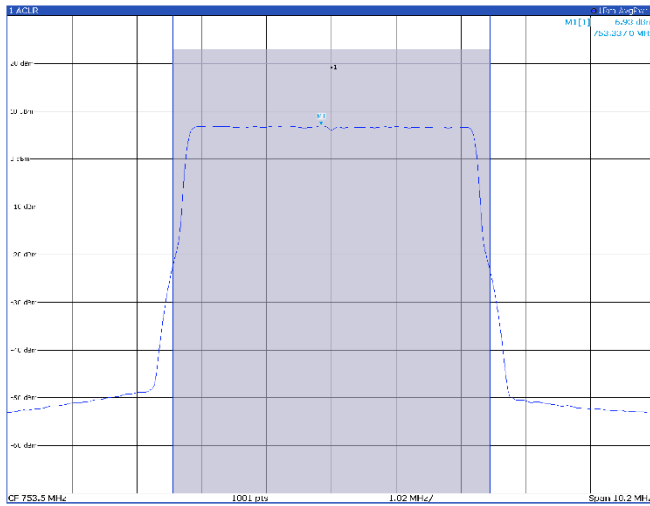
TM3p1a, 5 MHz, low channel



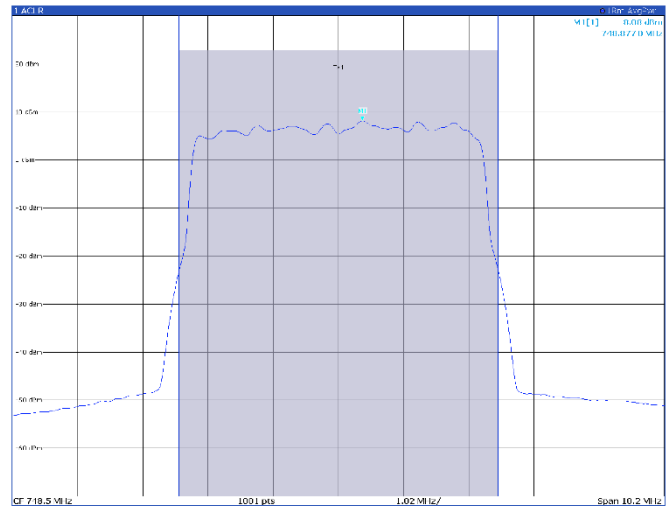
TM3p1a, 5 MHz, mid channel



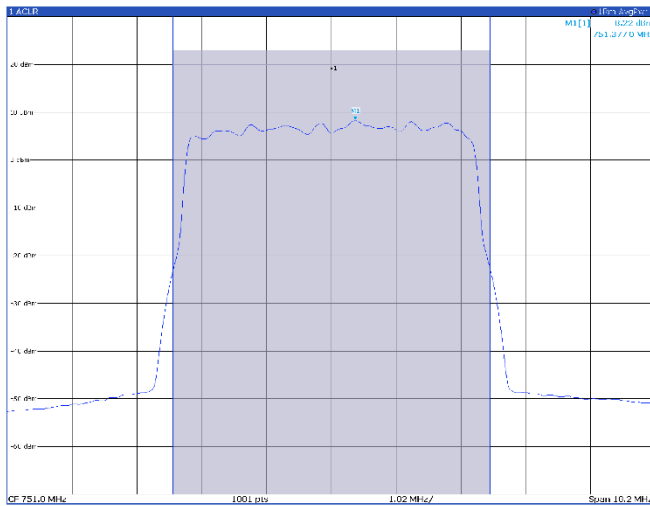
TM3p1a, 5 MHz, high channel



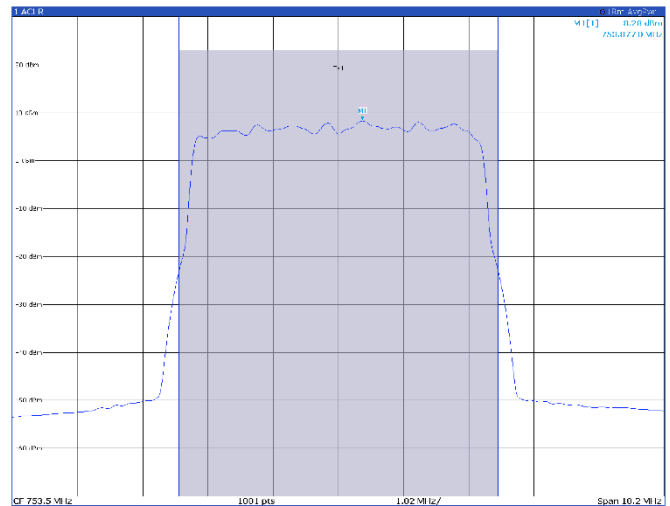
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel



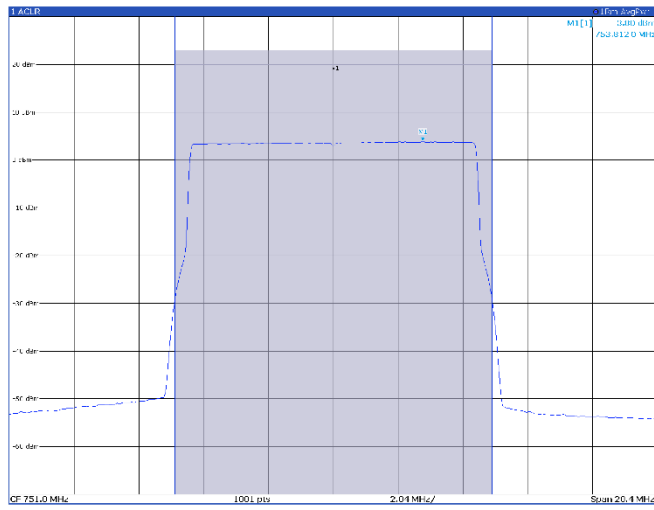
TM3p3, 5 MHz, high channel



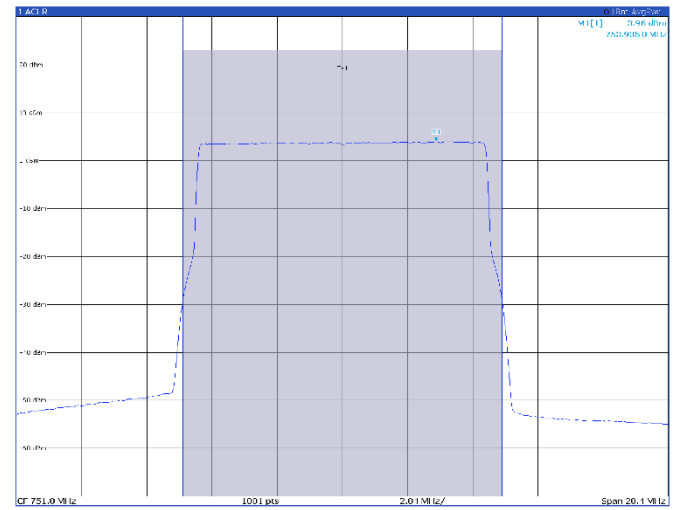
Band B13

10 MHz

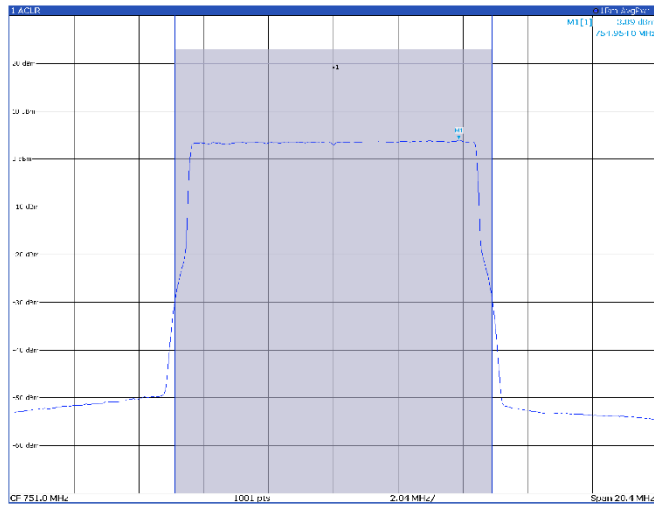
TM1.1, 10 MHz, mid channel



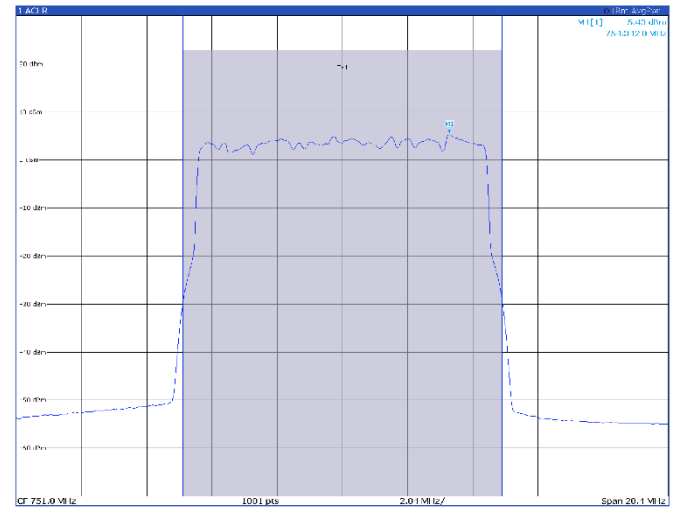
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel



8.5 FCC §27.50(d)(5) Peak to Average Power Ratio

8.5.1 Definitions and limits

d) (5) Equipment employed must be authorized in accordance with the provisions of § 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

(6) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, and any other relevant factors, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

8.5.2 Test summary

Test start date	November 26, 2024	Temperature	22 °C
Test end date	December 13, 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 B13:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	1	748.5	8.46	13	-4.54
B13	5 MHz	1	751.0	8.56	13	-4.44
B13	5 MHz	1	753.5	8.56	13	-4.44

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	1	748.5	8.48	13	-4.52
B13	5 MHz	1	751.0	8.44	13	-4.56
B13	5 MHz	1	753.5	8.46	13	-4.54

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	1	748.5	8.28	13	-4.72
B13	5 MHz	1	751.0	8.32	13	-4.68
B13	5 MHz	1	753.5	8.26	13	-4.74

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	1	748.5	8.36	13	-4.64
B13	5 MHz	1	751.0	8.38	13	-4.62
B13	5 MHz	1	753.5	8.34	13	-4.66

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	1	n/a	-	-	-
B13	10 MHz	1	751.0	8.38	13	-4.62
B13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	1	n/a	-	-	-
B13	10 MHz	1	751.0	8.32	13	-4.68
B13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	1	n/a	-	-	-
B13	10 MHz	1	751.0	8.40	13	-4.60
B13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	1	n/a	-	-	-
B13	10 MHz	1	751.0	8.48	13	-4.52
B13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM3p3

Antenna 2

Band B13:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	2	748.5	8.48	13	-4.52
B13	5 MHz	2	751.0	8.54	13	-4.46
B13	5 MHz	2	753.5	8.56	13	-4.44

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	2	748.5	8.44	13	-4.56
B13	5 MHz	2	751.0	8.48	13	-4.52
B13	5 MHz	2	753.5	8.42	13	-4.58

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	2	748.5	8.26	13	-4.74
B13	5 MHz	2	751.0	8.32	13	-4.68
B13	5 MHz	2	753.5	8.28	13	-4.72

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	5 MHz	2	748.5	8.38	13	-4.62
B13	5 MHz	2	751.0	8.38	13	-4.62
B13	5 MHz	2	753.5	8.40	13	-4.52

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	2	n/a	-	-	-
B13	10 MHz	2	751.0	8.58	13	-4.42
B13	10 MHz	2	n/a	-	-	-

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	2	n/a	-	-	-
B13	10 MHz	2	751.0	8.52	13	-4.48
B13	10 MHz	2	n/a	-	-	-

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	2	n/a	-	-	-
B13	10 MHz	2	751.0	8.38	13	-4.62
B13	10 MHz	2	n/a	-	-	-

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B13	10 MHz	2	n/a	-	-	-
B13	10 MHz	2	751.0	8.46	13	-4.54
B13	10 MHz	2	n/a	-	-	-

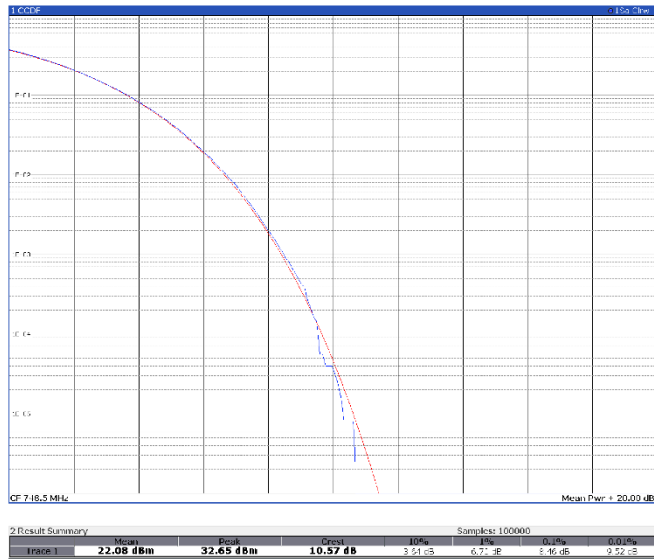
Peak to average power ratio, TM3p3

Antenna port 1

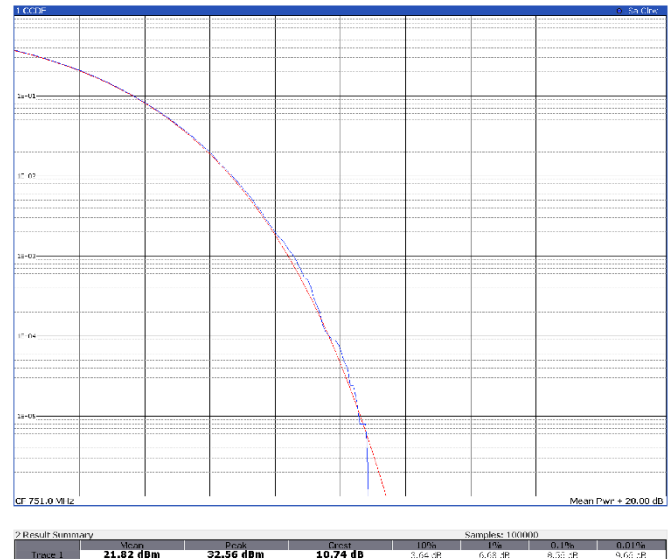
Band B13

5 MHz

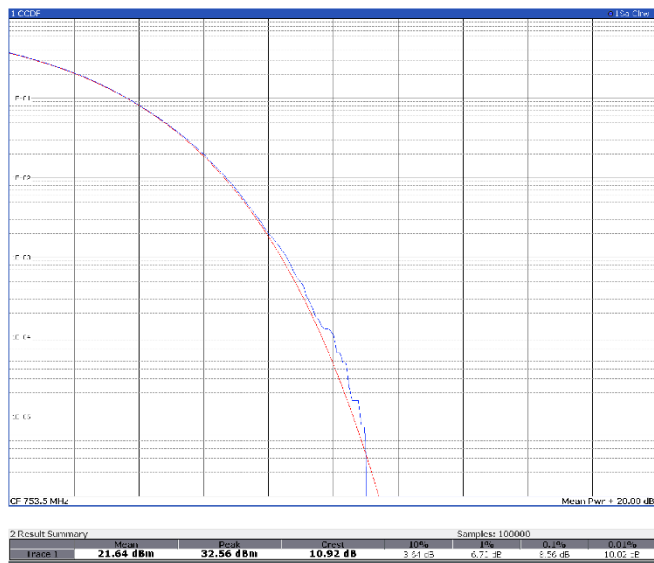
TM1.1, 5 MHz, low channel



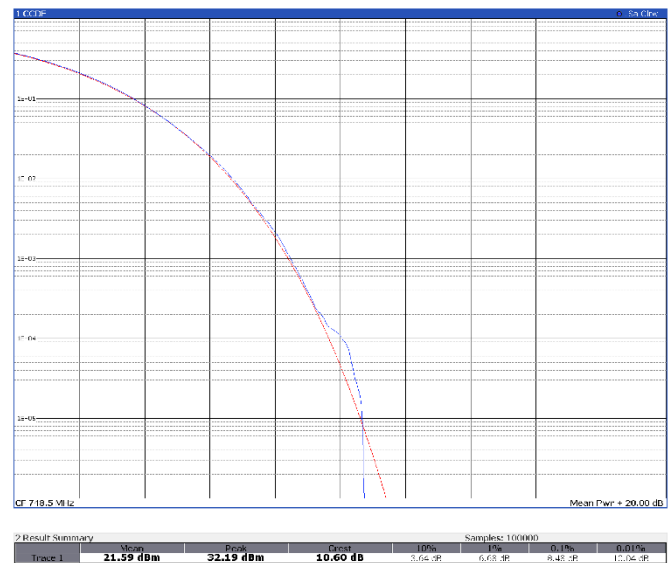
TM1.1, 5 MHz, mid channel



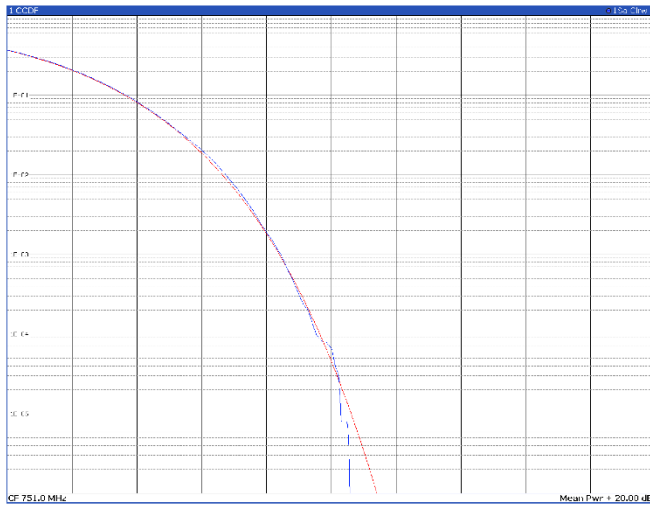
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

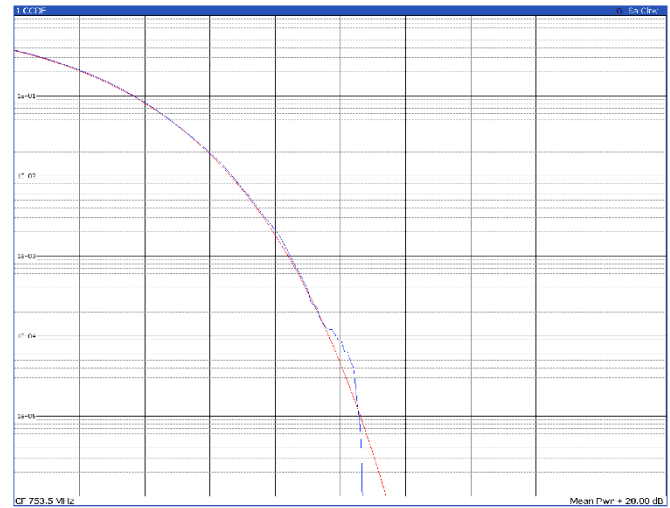


TM3p1, 5 MHz, mid channel



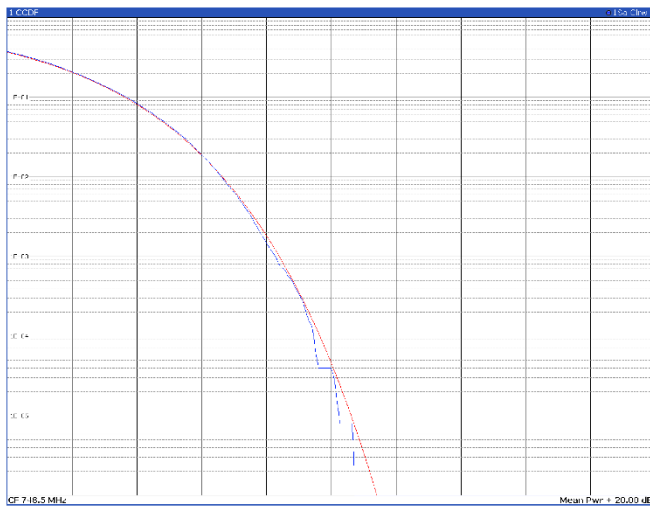
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.64 dBm	32.12 dBm	10.48 dB	3.56 dB	6.74 dB	9.51 dB

TM3p1, 5 MHz, high channel



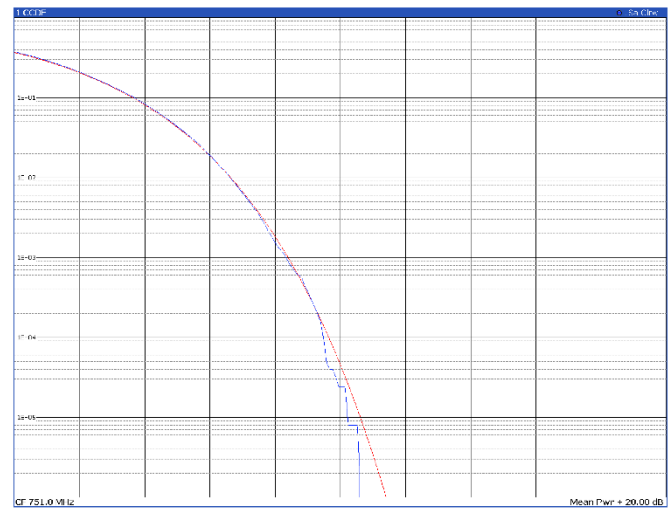
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.62 dBm	32.19 dBm	10.57 dB	3.65 dB	6.83 dB	9.61 dB

TM3p1a, 5 MHz, low channel



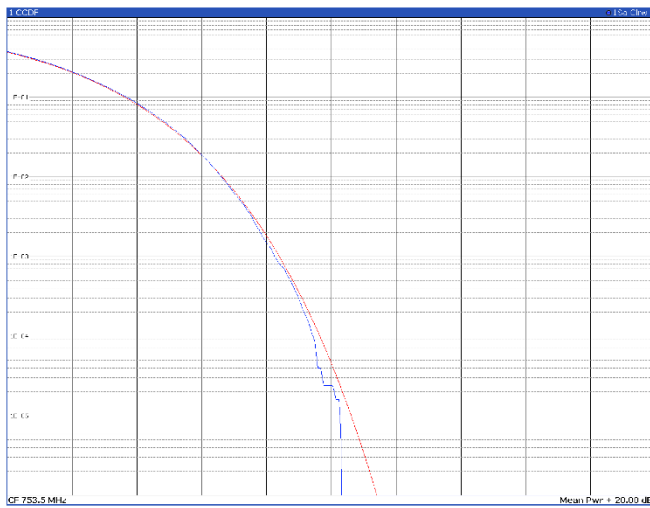
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.58 dBm	32.24 dBm	10.66 dB	3.59 dB	6.62 dB	9.46 dB

TM3p1a, 5 MHz, mid channel



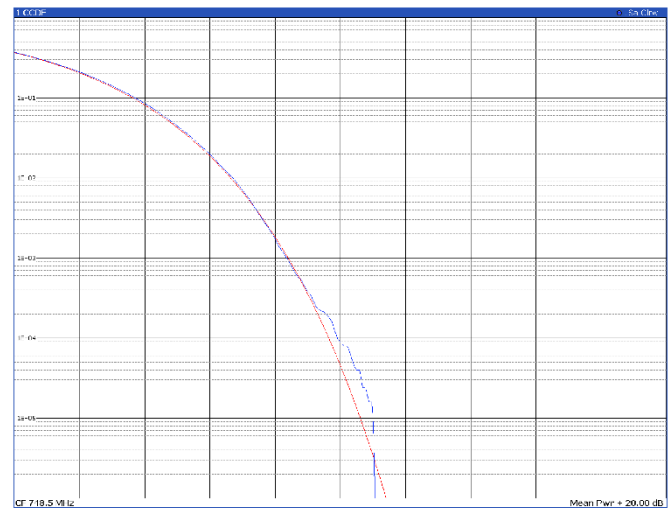
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.70 dBm	32.21 dBm	10.50 dB	3.63 dB	6.62 dB	9.35 dB

TM3p1a, 5 MHz, high channel



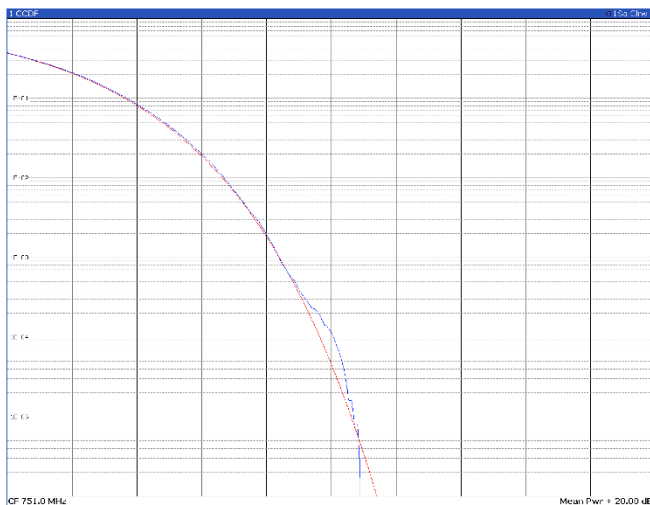
2 Result Summary		Sample: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	21.61 dBm	31.86 dBm	10.25 dB	3.58 dB	6.05 dB	8.56 dB	9.64 dB

TM3p3, 5 MHz, low channel



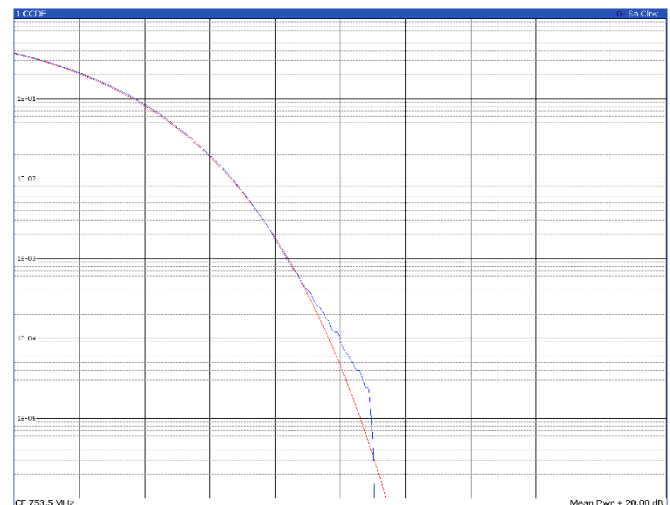
2 Result Summary		Sample: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	21.82 dBm	32.81 dBm	10.99 dB	3.71 dB	6.22 dB	8.73 dB	9.82 dB

TM3p3, 5 MHz, mid channel



2 Result Summary		Sample: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	21.88 dBm	32.65 dBm	10.77 dB	3.58 dB	6.32 dB	8.58 dB	10.00 dB

TM3p3, 5 MHz, high channel

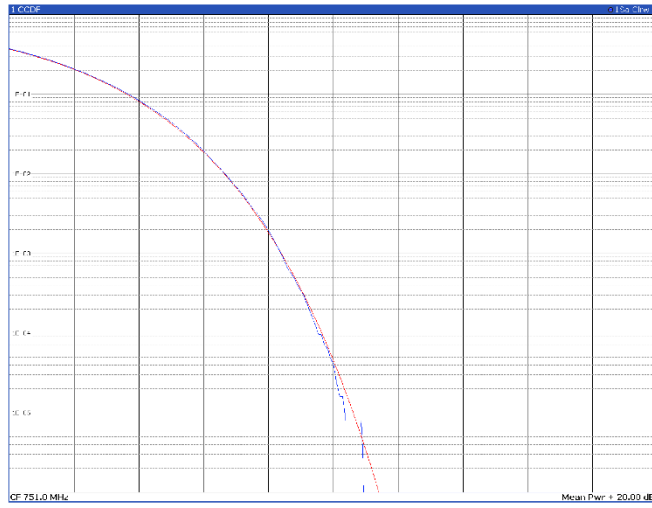


2 Result Summary		Sample: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	21.73 dBm	32.71 dBm	10.98 dB	3.71 dB	6.13 dB	8.34 dB	9.90 dB

Band B13

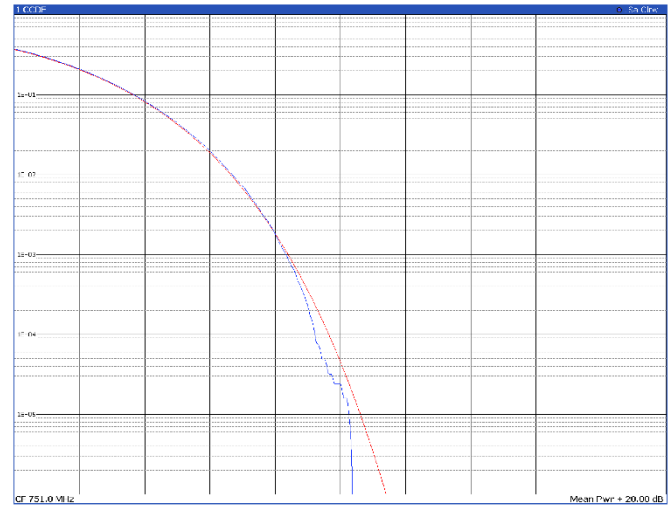
10 MHz

TM1.1, 10 MHz, mid channel



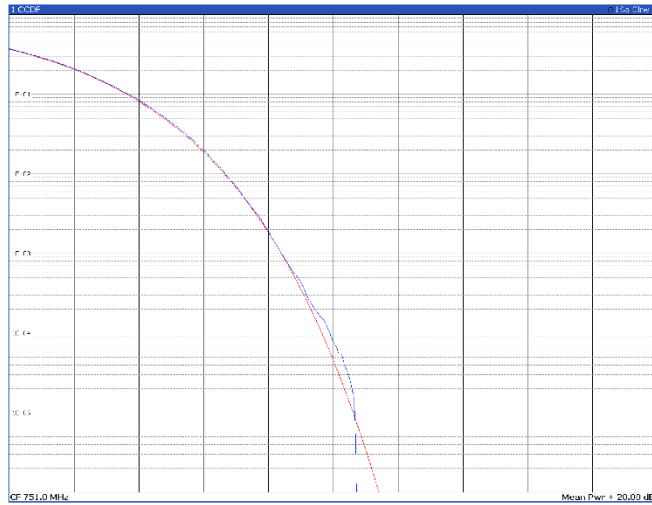
2 Result Summary		Samples: 100000					
Mean	Peak	Crest	10%	1%	0.1%	0.01%	
Trace 1	18.64 dBm	29.45 dBm	10.61 dB	3.58 dB	6.65 dB	8.18 dB	9.57 dB

TM3p1, 10 MHz, mid channel



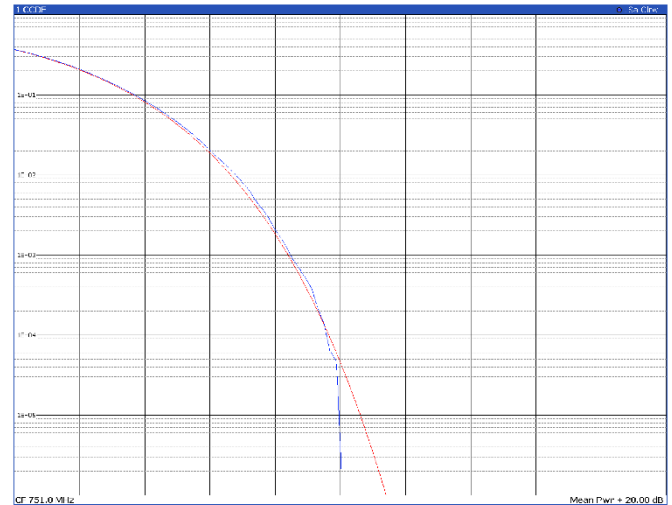
2 Result Summary		Samples: 100000					
Mean	Peak	Crest	10%	1%	0.1%	0.01%	
Trace 1	18.54 dBm	28.81 dBm	10.26 dB	3.60 dB	6.63 dB	8.32 dB	9.70 dB

TM3p1a, 10 MHz, mid channel



2 Result Summary		Samples: 100000					
Mean	Peak	Crest	10%	1%	0.1%	0.01%	
Trace 1	18.58 dBm	29.24 dBm	10.66 dB	3.58 dB	6.65 dB	8.40 dB	9.88 dB

TM3p3, 10 MHz, mid channel



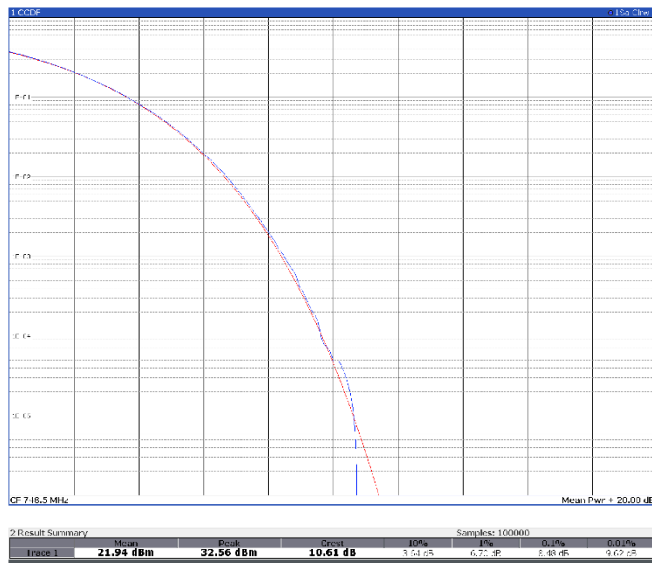
2 Result Summary		Samples: 100000					
Mean	Peak	Crest	10%	1%	0.1%	0.01%	
Trace 1	18.63 dBm	28.67 dBm	9.96 dB	3.63 dB	6.73 dB	8.45 dB	9.51 dB

Antenna port 2

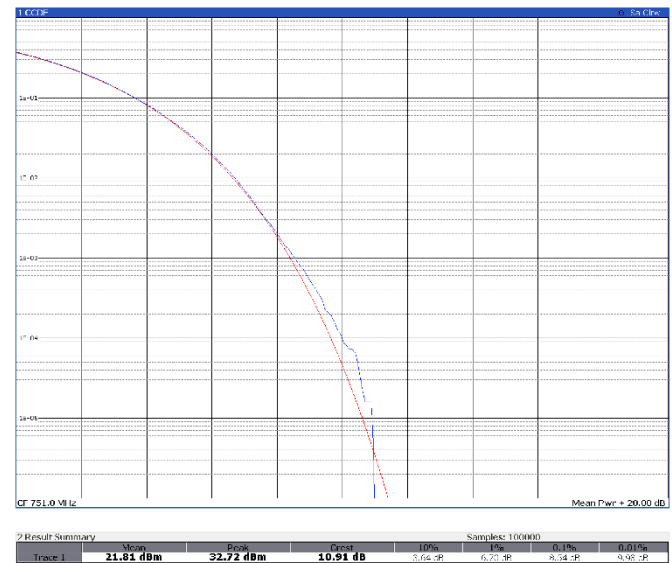
Band B13

5 MHz

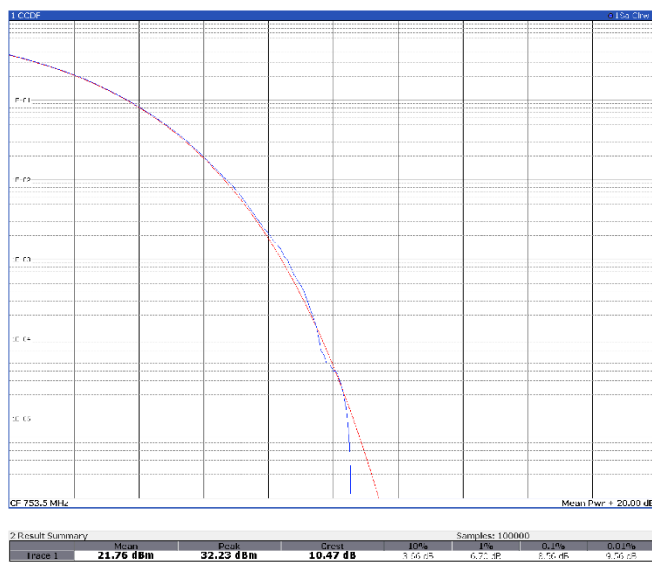
TM1.1, 5 MHz, low channel



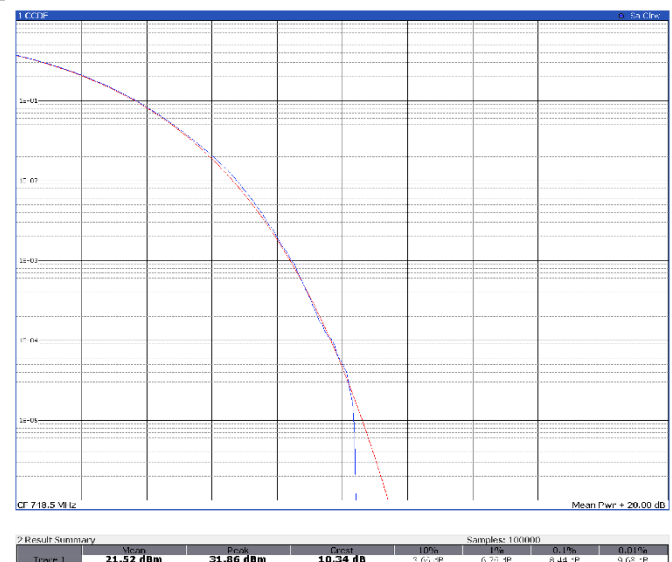
TM1.1, 5 MHz, mid channel



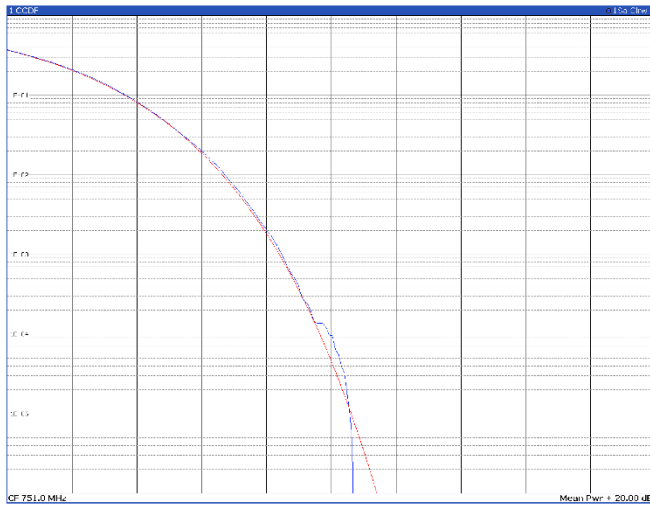
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

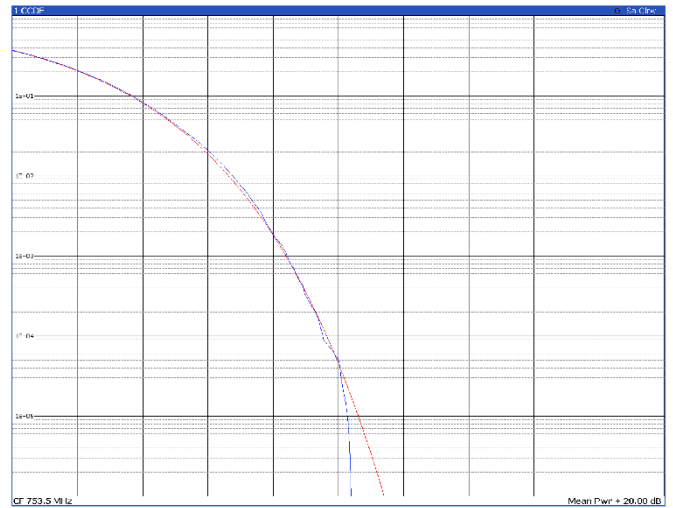


TM3p1, 5 MHz, mid channel



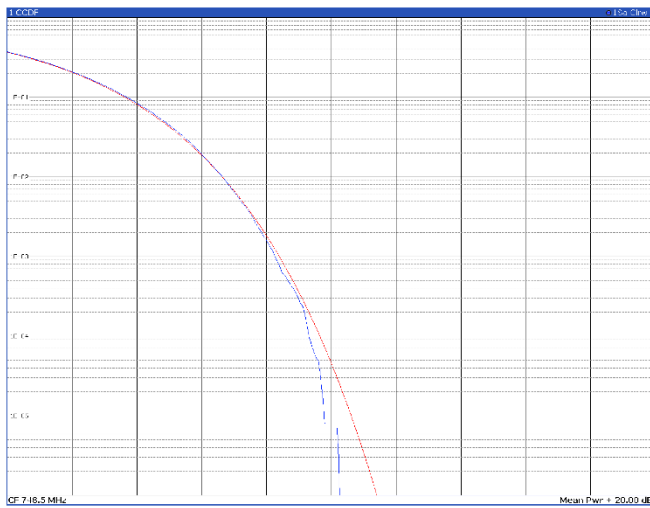
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.63 dBm	32.21 dBm	10.58 dB	3.56 dB	6.72 dB	8.98 dB

TM3p1, 5 MHz, high channel



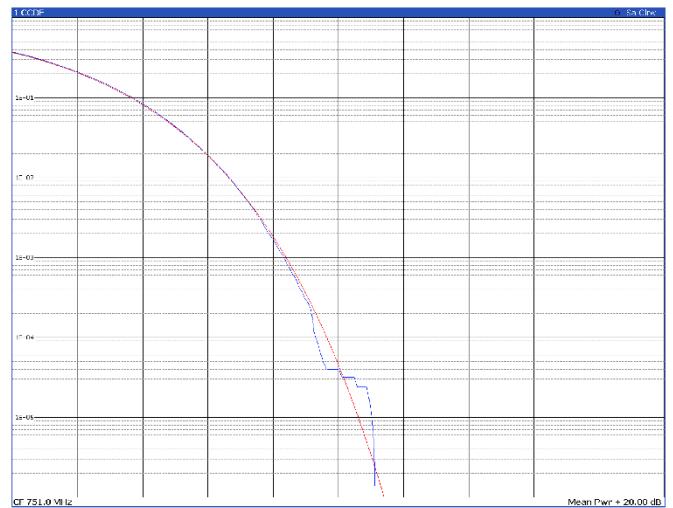
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.73 dBm	31.98 dBm	10.25 dB	3.61 dB	6.70 dB	8.42 dB

TM3p1a, 5 MHz, low channel



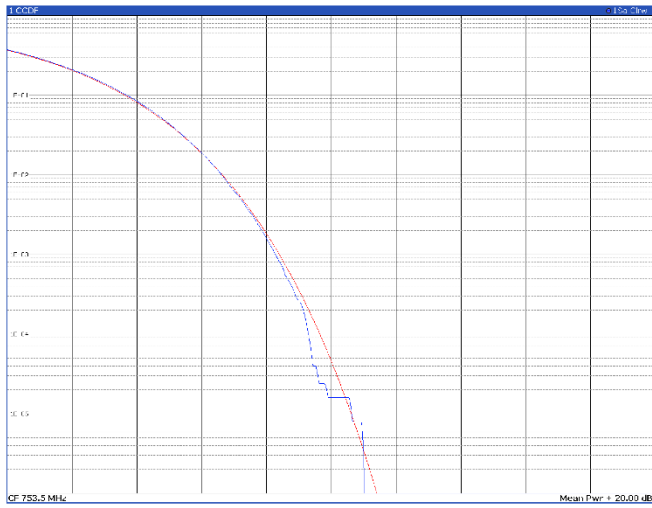
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.49 dBm	31.67 dBm	10.18 dB	3.59 dB	6.64 dB	8.32 dB

TM3p1a, 5 MHz, mid channel



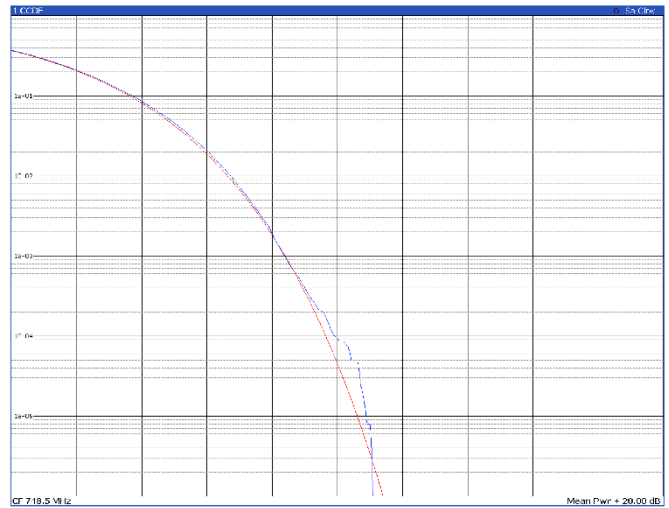
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.64 dBm	32.67 dBm	11.03 dB	3.63 dB	6.60 dB	8.30 dB

TM3p1a, 5 MHz, high channel



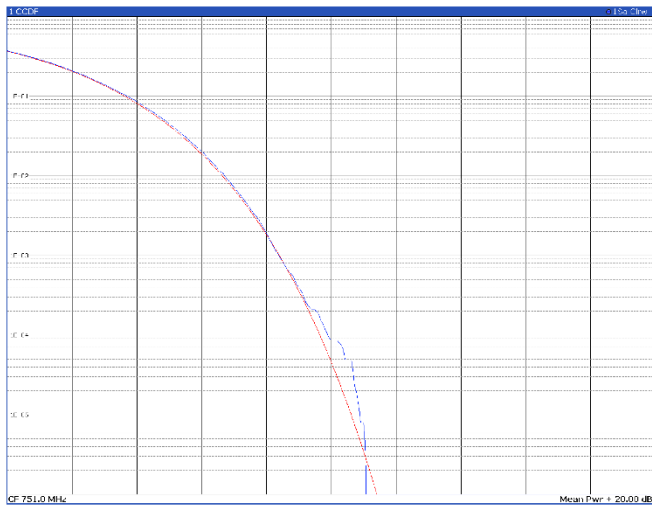
2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.75 dBm	32.72 dBm	10.96 dB
			10%
			0.1%
			0.01%

TM3p3, 5 MHz, low channel



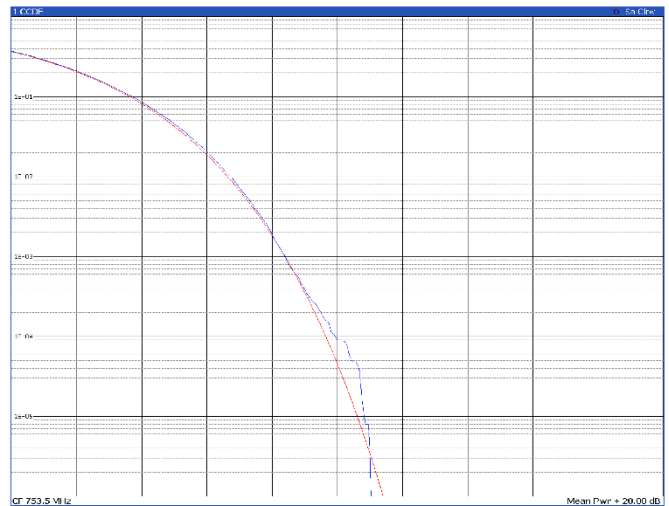
2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.69 dBm	32.71 dBm	11.02 dB
			10%
			0.1%
			0.01%

TM3p3, 5 MHz, mid channel



2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.68 dBm	32.66 dBm	10.98 dB
			10%
			0.1%
			0.01%

TM3p3, 5 MHz, high channel

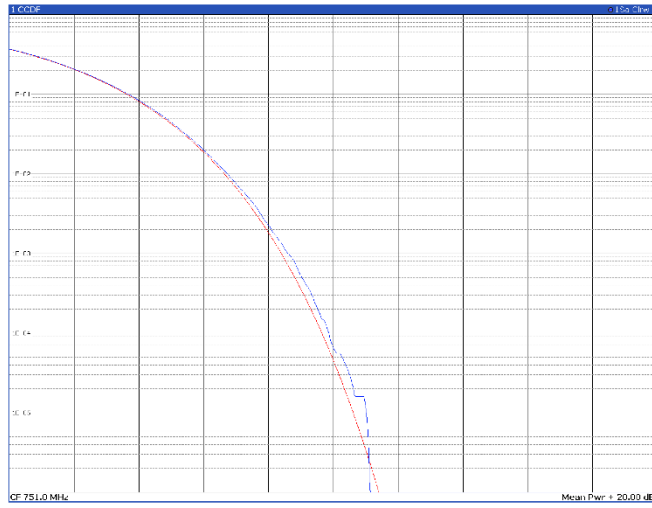


2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.93 dBm	32.90 dBm	10.97 dB
			10%
			0.1%
			0.01%

Band B13

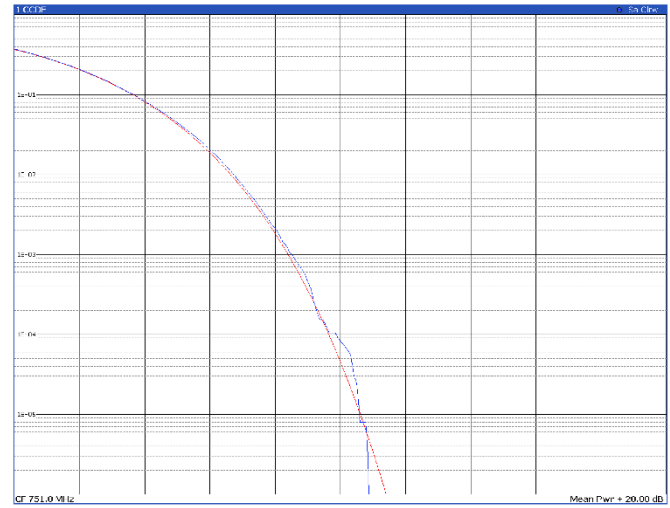
10 MHz

TM1.1, 10 MHz, mid channel



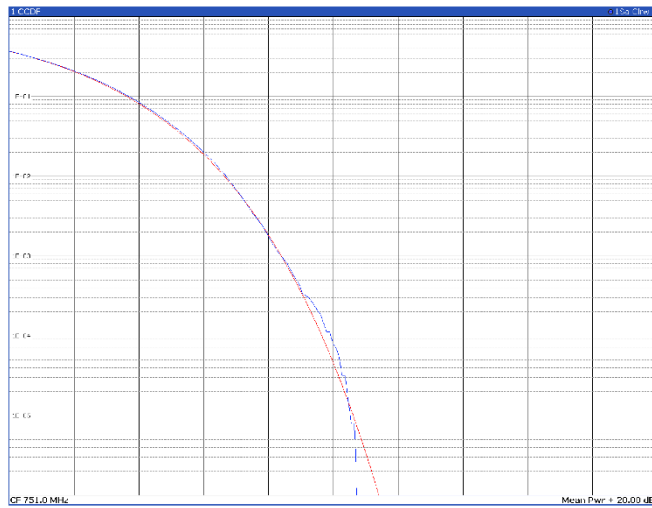
2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.54 dBm	29.61 dBm	11.06 dB	5.56 dB	6.74 dB	8.58 dB	9.86 dB

TM3p1, 10 MHz, mid channel



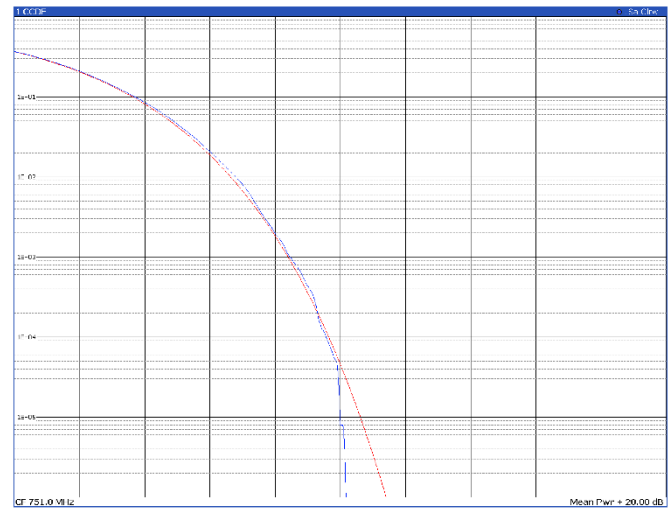
2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.71 dBm	29.45 dBm	10.74 dB	5.66 dB	6.77 dB	8.57 dB	9.80 dB

TM3p1a, 10 MHz, mid channel



2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.57 dBm	29.16 dBm	10.59 dB	5.70 dB	6.65 dB	8.58 dB	9.92 dB

TM3p3, 10 MHz, mid channel



2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.65 dBm	28.70 dBm	10.04 dB	5.70 dB	6.78 dB	8.43 dB	9.30 dB

8.6 FCC §27.53(m) Emission Limits

8.6.1 Definitions and limits

(m) For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(2) For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No. 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided that a documented interference complaint cannot be mutually resolved between the parties prior to the applicable deadline, then the following additional attenuation requirements shall apply:

(v) For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge.

(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

8.6.2 Test summary

Test start date	November 26, 2024	Temperature	21 °C
Test end date	December 13, 2024	Air pressure	1005 mbar
Test engineer	O. Frau	Relative humidity	64%
Verdict	Pass		

8.6.3 Observations, settings and special notes

EUT setup configuration	Table top
Test facility	3 m Semi anechoic chamber
Measuring distance	3m
Antenna height variation	1–4 m
Turn table position	0–360°
Measurement details	A preview measurement was generated with receiver in continuous scan or sweep mode while the EUT was rotated and antenna adjusted to maximize radiated emission. Emissions detected within 6 dB or above limit were re-measured with the appropriate detector against the correlating limit and recorded as the final measurement.

Receiver/spectrum analyzer settings for frequencies below 1 GHz:

Resolution bandwidth	120 kHz
Video bandwidth	300 kHz
Detector mode	– Peak (Preview measurement) – Quasi-peak (Final measurement)
Trace mode	Max Hold
Measurement time	– 100 ms (Peak preview measurement) – 5000 ms (Quasi-peak final measurement)

Receiver/spectrum analyzer settings for frequencies above 1 GHz:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Detector mode	Peak (Preview measurement) Peak and Coverage (Final measurement)
Trace mode	Max Hold
Measurement time	– 100 ms (Peak preview measurement) – 5000 ms (Peak and Coverage final measurement)

Spectrum analyzer settings (conducted test):

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	Sufficient for making an accurate measurement
Detector mode	RMS
Trace mode	Max Hold

This test was realized in two parts: one with a conducted setup and another one with a radiated setup.

The conducted test was made on one port at time, transmitting at max power and with the other one loaded with 50 Ω loads. For capturing the signal with the equipment, it was divided in two ranges, using a transducer factor to compensate the losses caused by a cable and attenuator used to protect the test equipment. The first range was measured from 30 MHz to 1 GHz where the fundamental signal is visible; the second range was selected from 1 GHz to 8 GHz. The evaluation was made using the three channels and all the modulations (TM1.1, TM3p1, TM3p1a, and TM3p3).

A 30 dB attenuator was placed between the EUT and spectrum analyzer and compensated for as a reference level offset. Additionally, to correct for MIMO consideration, an additional offset of $10\log(2) = -3.01$ dB was included to compensate for 2 correlated antennas output.

For band edge tests, in the 1 MHz region immediately outside of the authorized band, a resolution bandwidth of approximately 1 – 5 % of the 26 dB bandwidth measured was used.

The radiated test was made transmitting to max power too with the two ports terminated with 50 Ω loads. The scans were made from 30 MHz to 8 GHz considering all the channels but only the bandwidth and modulation with the highest power was showed.

Based on equation $43 + 10 \log_{10}(P)$ dB, the general emission limit is -13 dBm (conducted and radiated test) or the equivalent at 3m is 82.23 dB μ V/m above 1 GHz and 84.38 dB μ V/m below 1 GHz.

8.6.4 Test equipment used

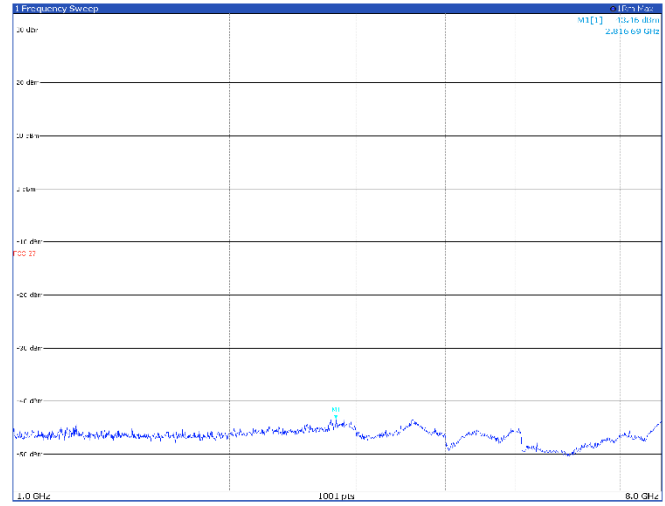
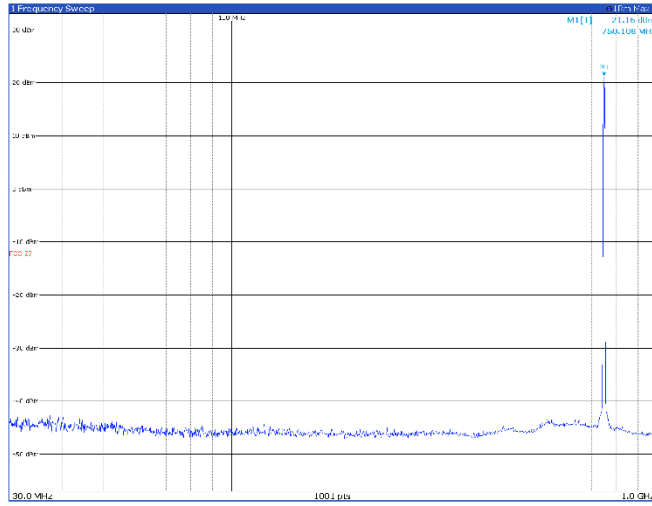
Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767
EMI Receiver	Rohde & Schwarz	ESW44	101620
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263254
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263397
Antenna Trilog 25MHz – 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025
Antenna 1 – 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01
Controller	Maturo	FCU3.0	10041
Tilt antenna mast	Maturo	TAM4.0-E	10042
Turntable	Maturo	TT4.0-5T	2.527

8.6.5 Test data

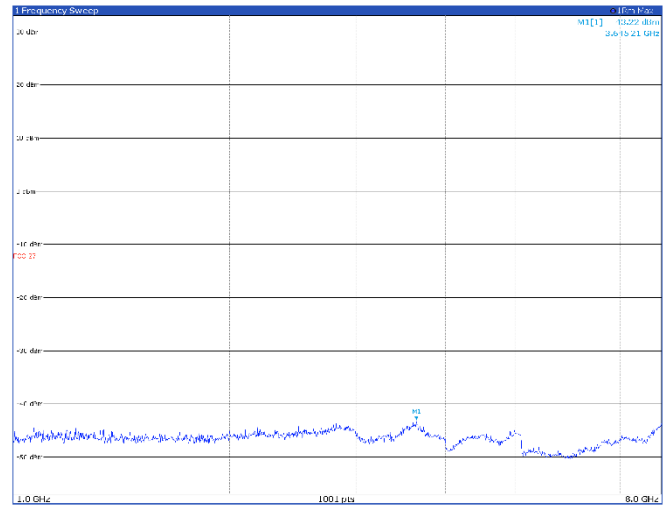
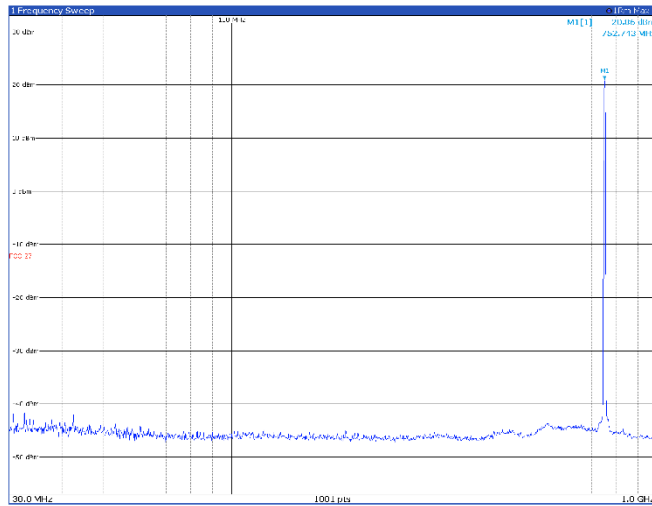
Band B13 – conducted emissions Antenna port 1

5 MHz

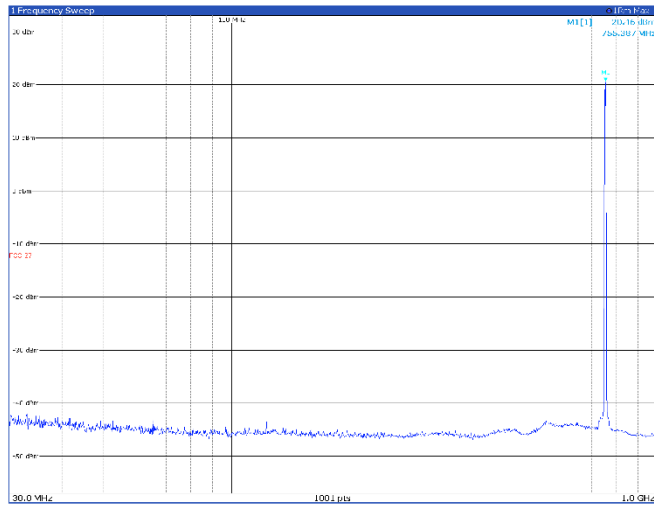
TM1.1, 5 MHz, low channel



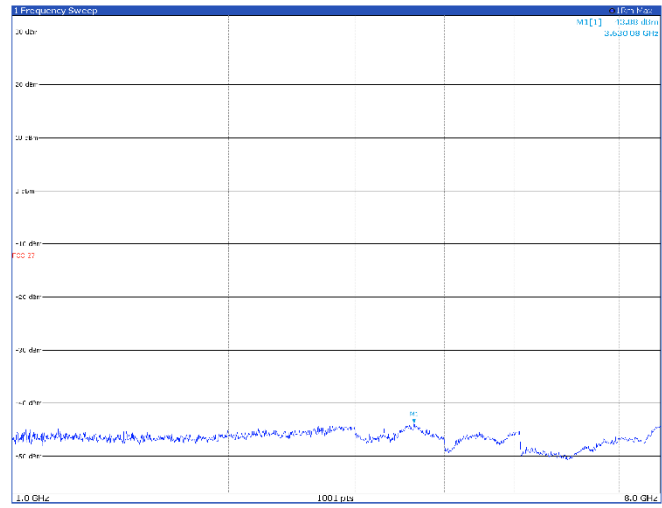
TM1.1, 5 MHz, mid channel



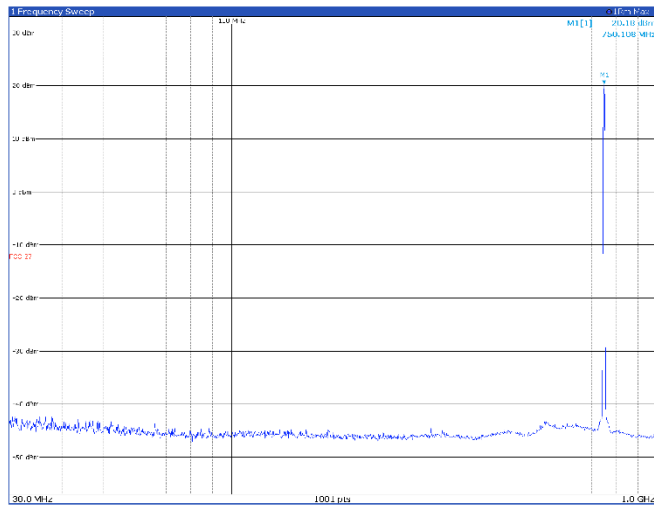
TM1.1, 5 MHz, high channel



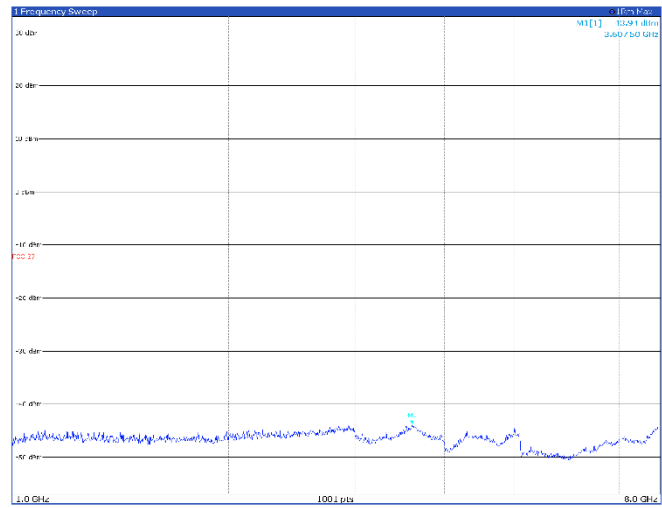
Limit exceeded by the carrier



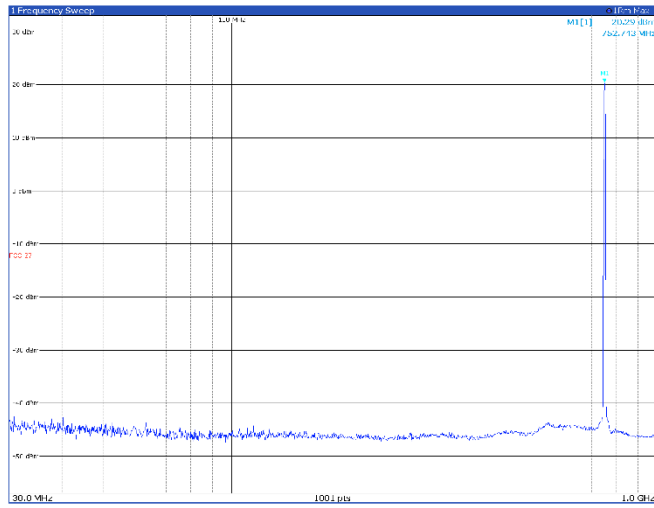
TM3p1, 5 MHz, low channel



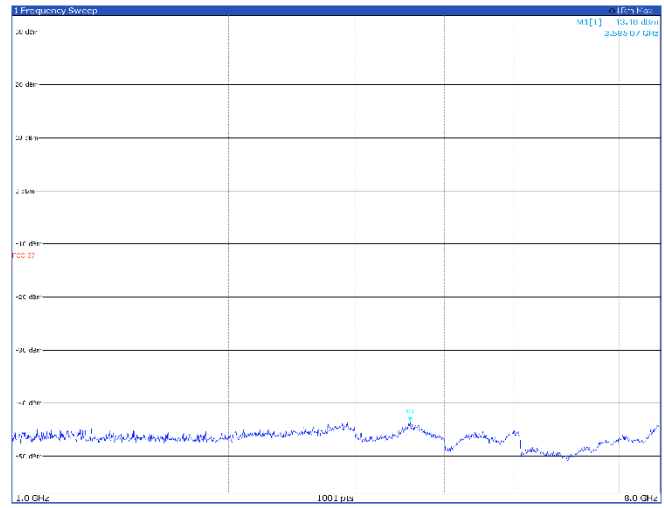
Limit exceeded by the carrier



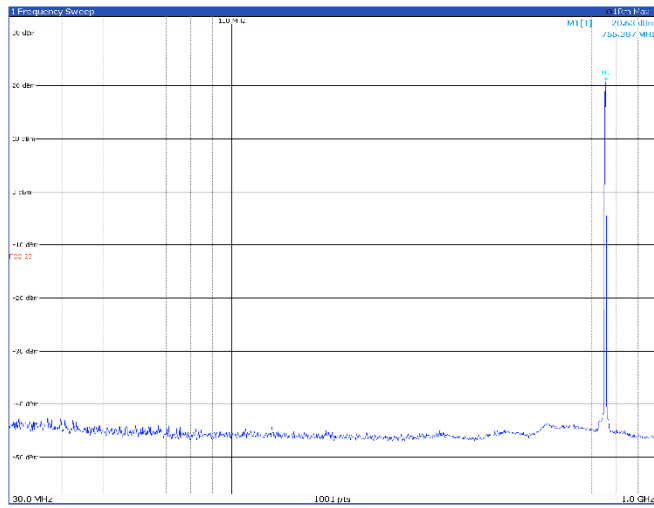
TM3p1, 5 MHz, mid channel



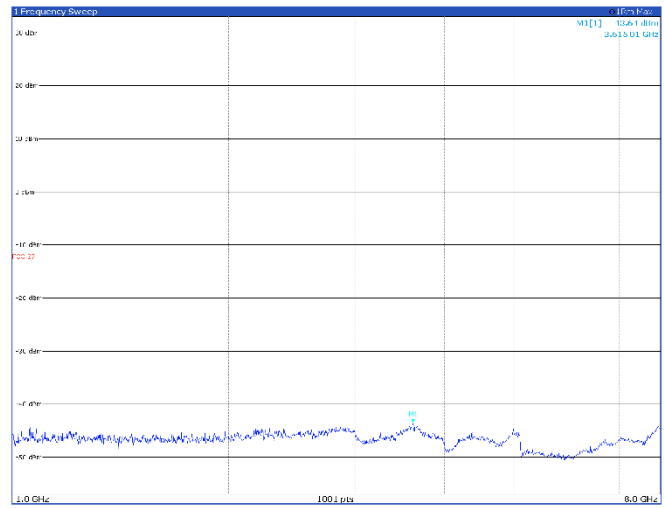
Limit exceeded by the carrier



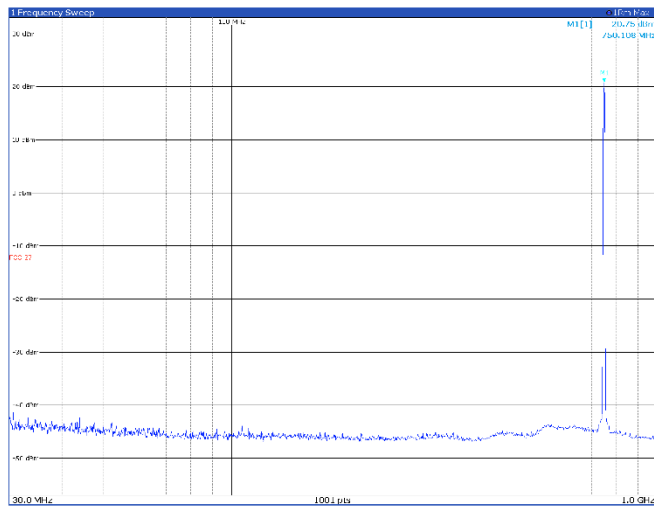
TM3p1, 5 MHz, high channel



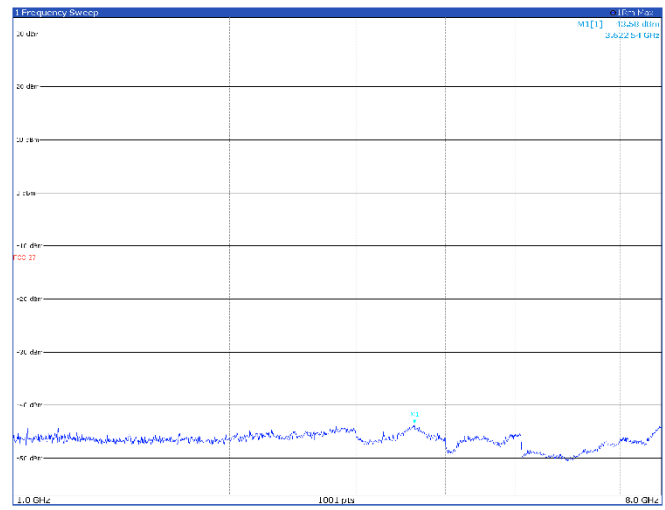
Limit exceeded by the carrier



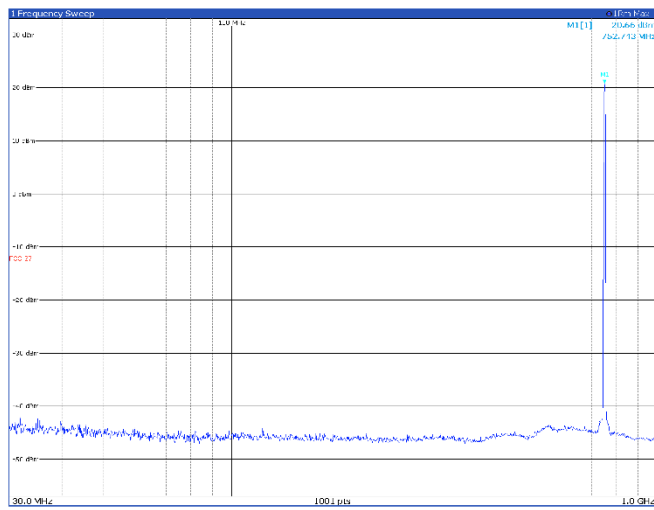
TM3p1a, 5 MHz, low channel



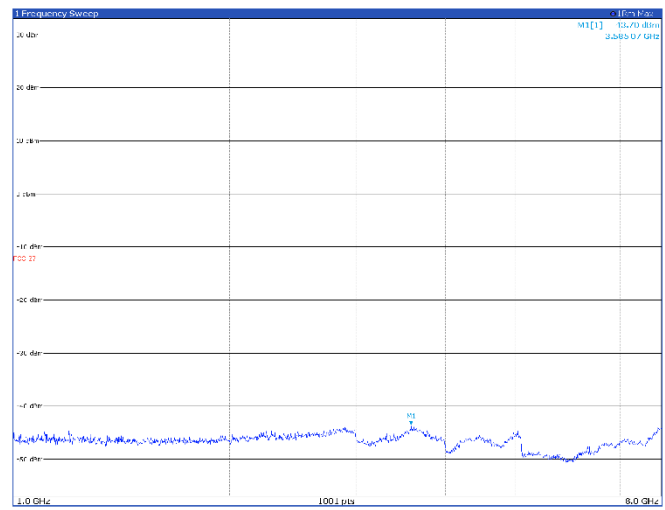
Limit exceeded by the carrier



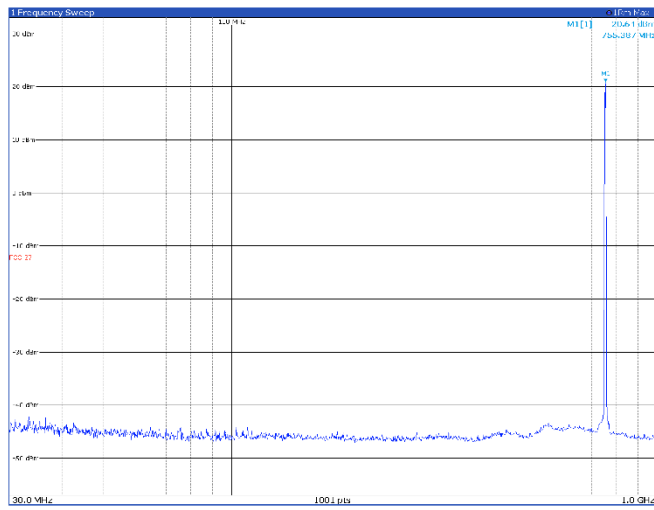
TM3p1a, 5 MHz, mid channel



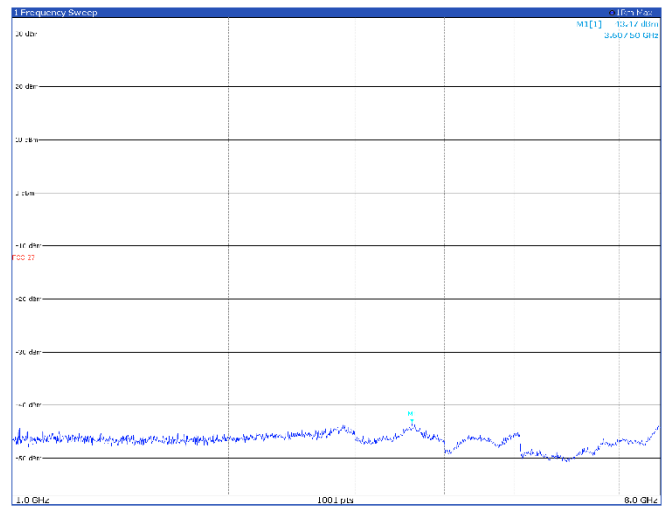
Limit exceeded by the carrier



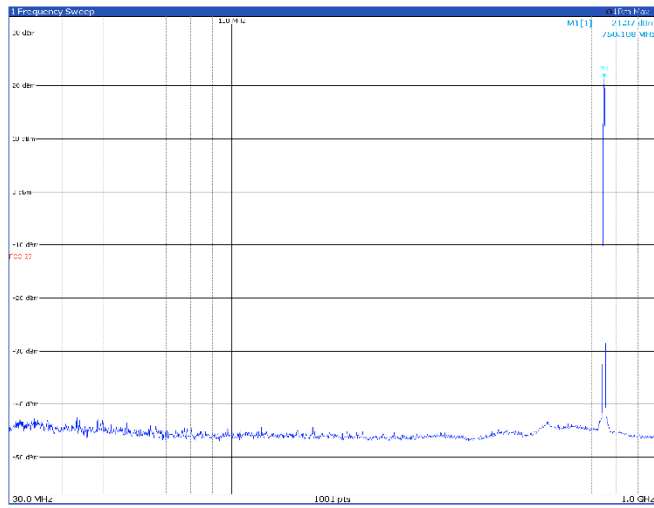
TM3p1a, 5 MHz, high channel



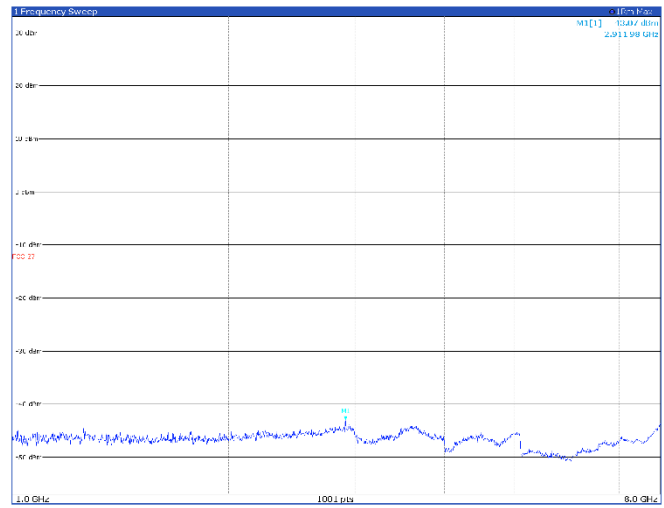
Limit exceeded by the carrier



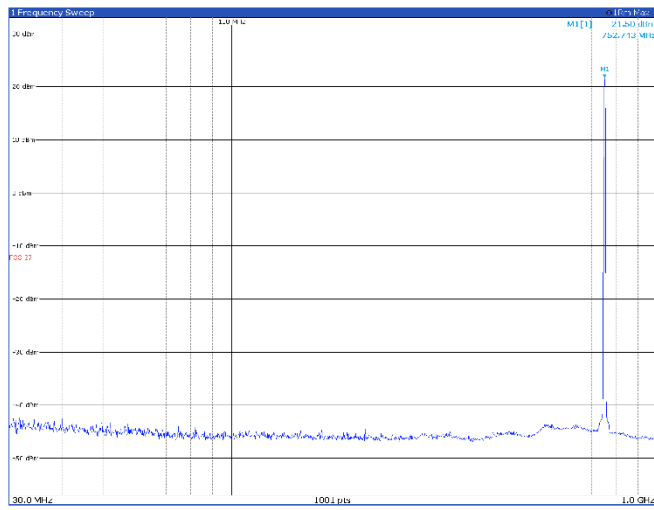
TM3p3, 5 MHz, low channel



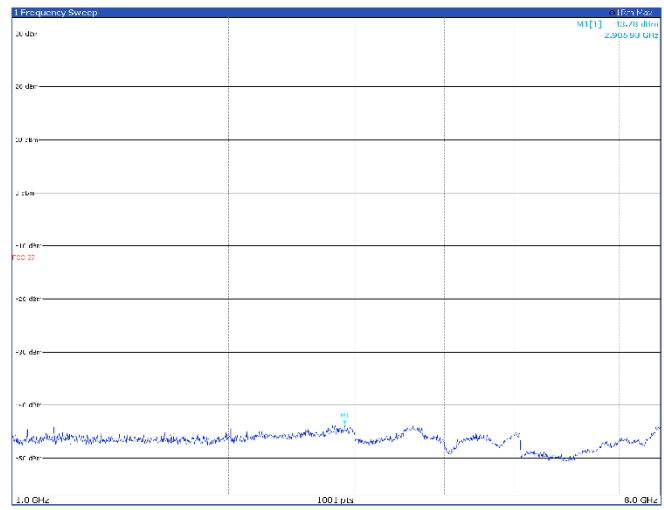
Limit exceeded by the carrier



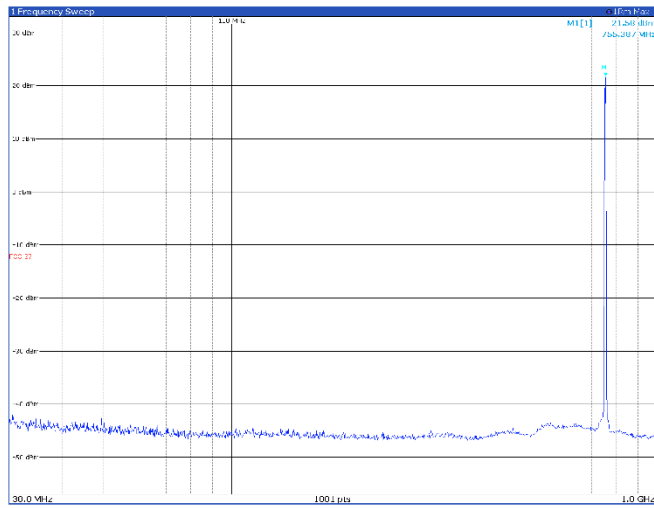
TM3p3, 5 MHz, mid channel



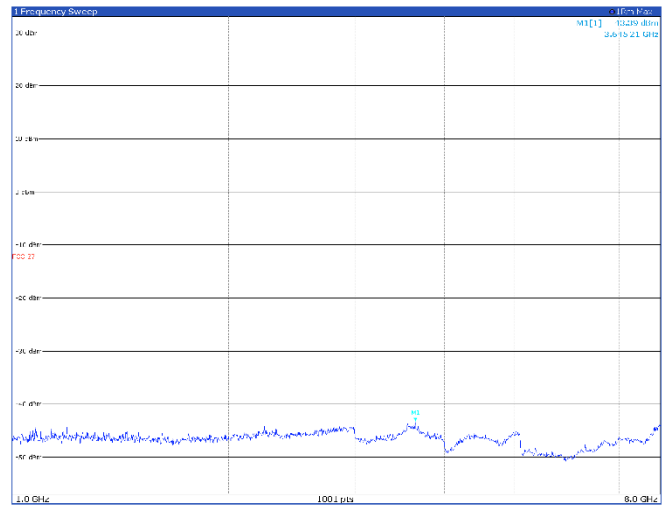
Limit exceeded by the carrier



TM3p3, 5 MHz, high channel



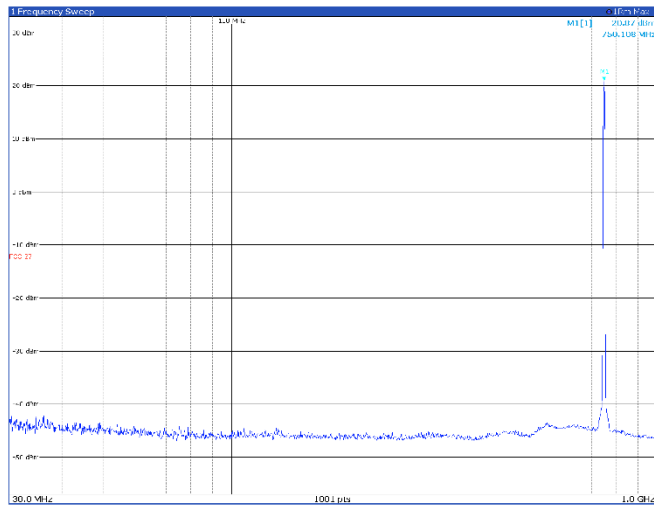
Limit exceeded by the carrier



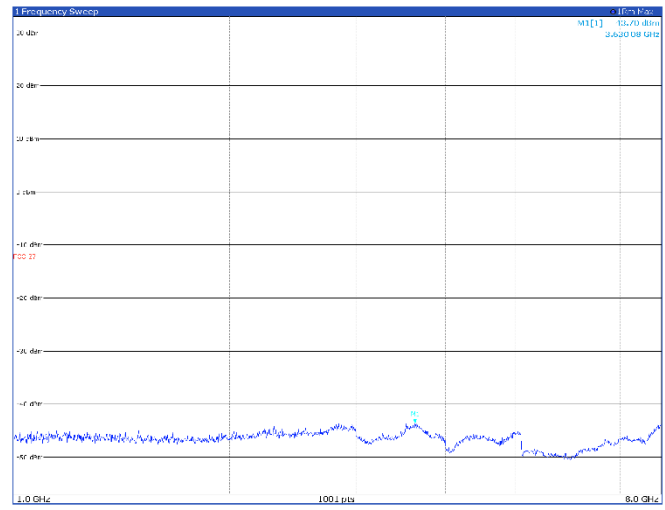
Band B13 – conducted emissions Antenna port 2

5 MHz

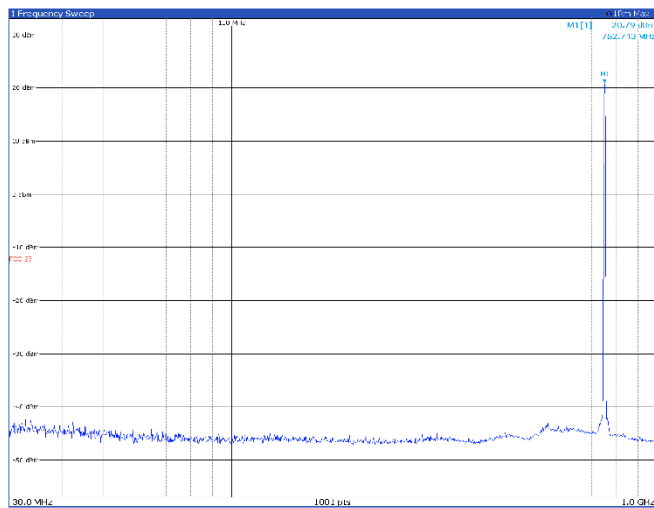
TM1.1, 5 MHz, low channel



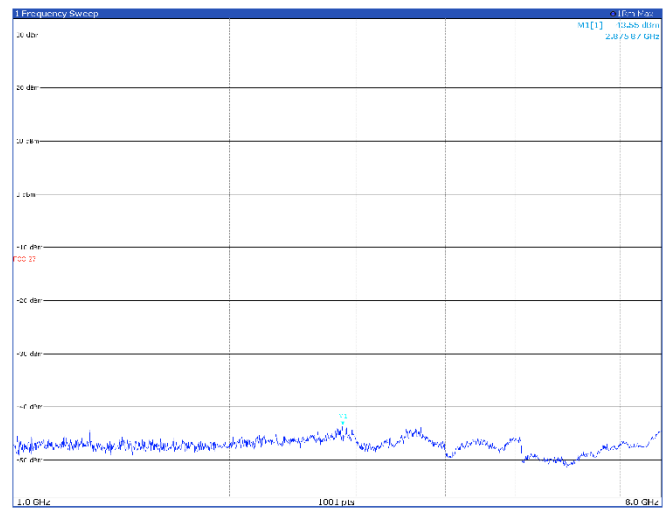
Limit exceeded by the carrier



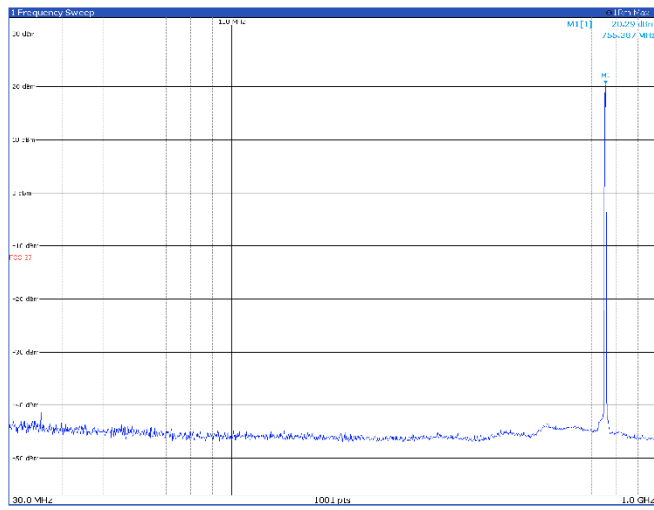
TM1.1, 5 MHz, mid channel



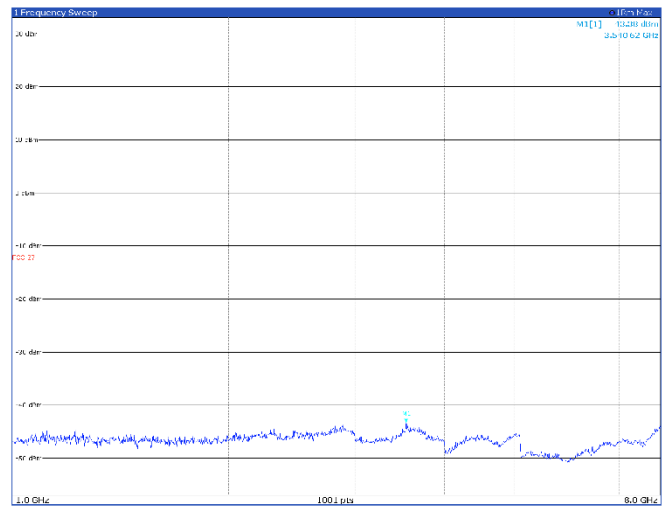
Limit exceeded by the carrier



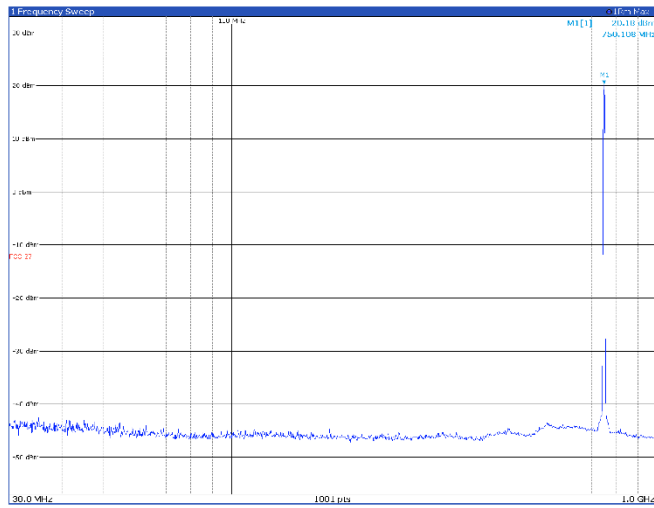
TM1.1, 5 MHz, high channel



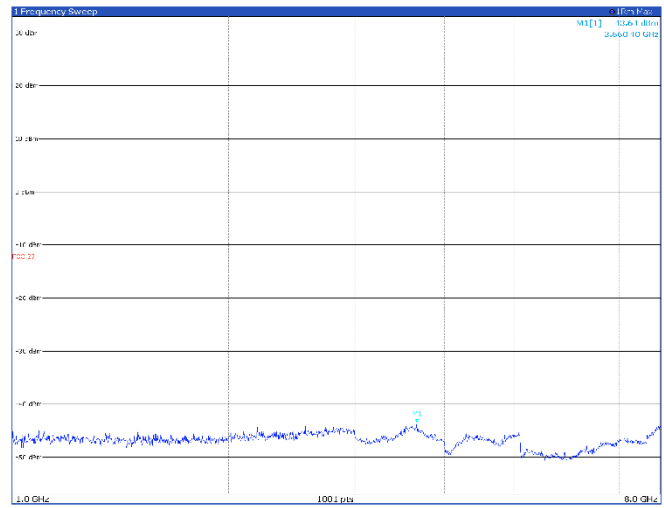
Limit exceeded by the carrier



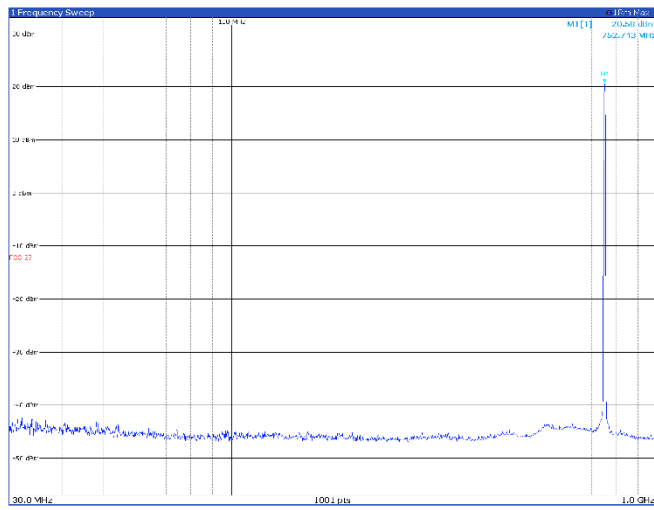
TM3p1, 5 MHz, low channel



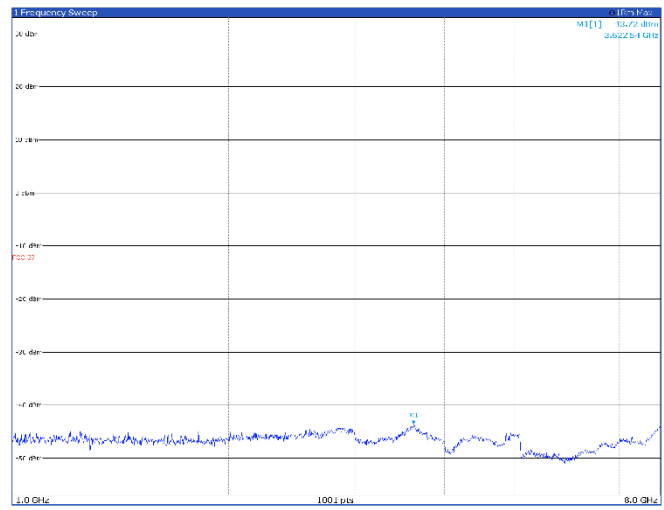
Limit exceeded by the carrier



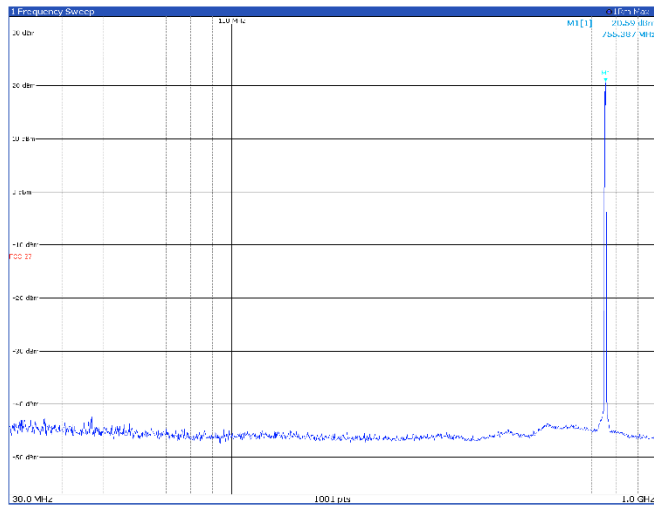
TM3p1, 5 MHz, mid channel



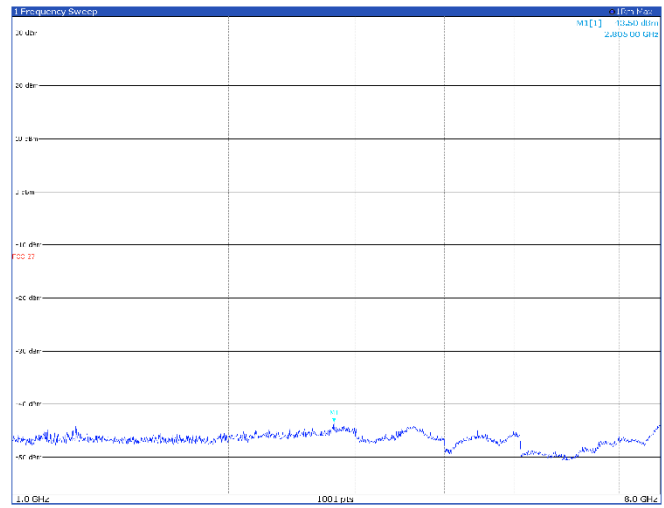
Limit exceeded by the carrier



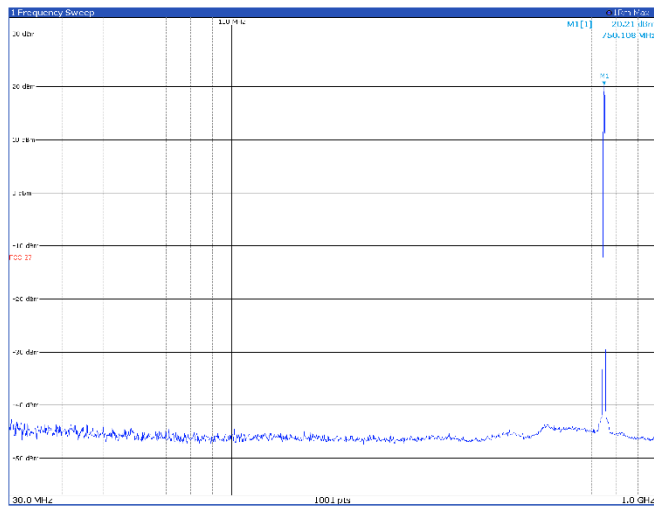
TM3p1, 5 MHz, high channel



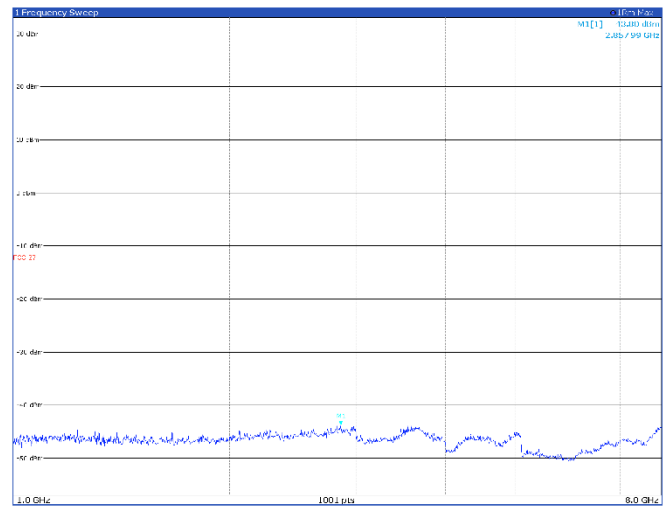
Limit exceeded by the carrier



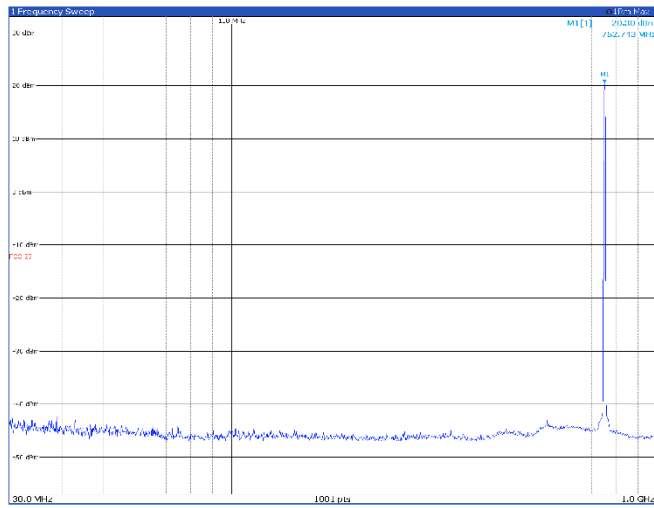
TM3p1a, 5 MHz, low channel



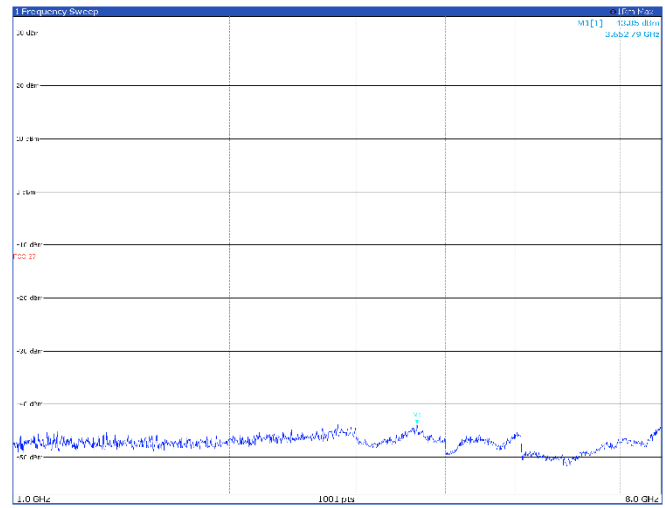
Limit exceeded by the carrier



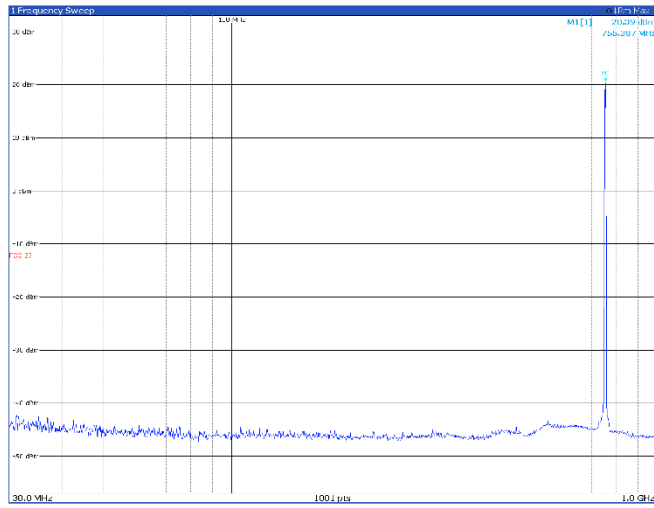
TM3p1a, 5 MHz, mid channel



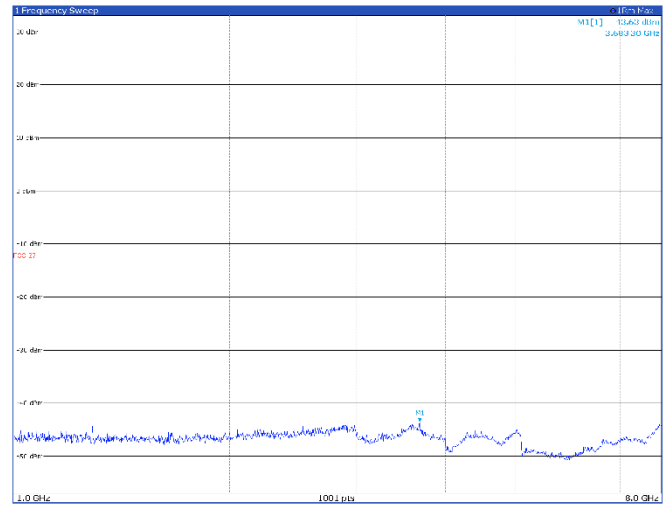
Limit exceeded by the carrier



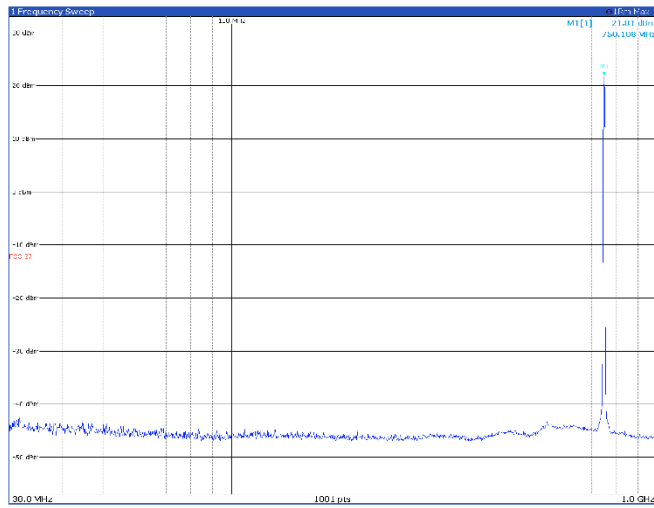
TM3p1a, 5 MHz, high channel



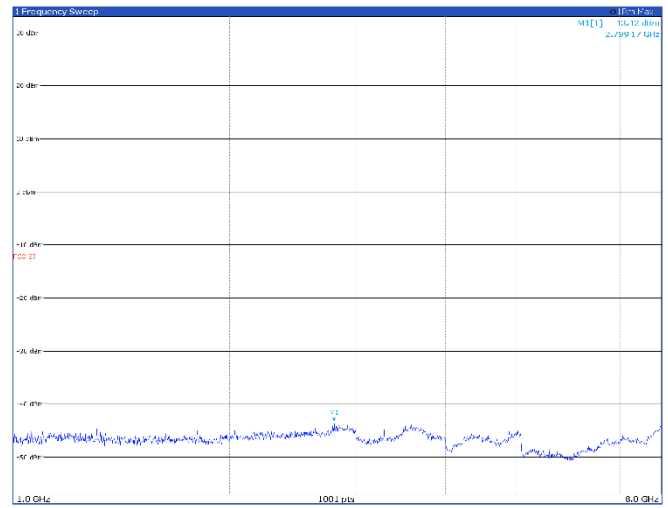
Limit exceeded by the carrier



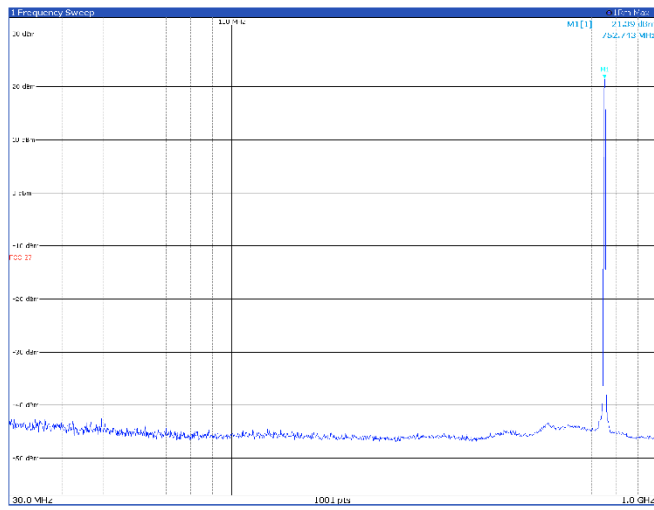
TM3p3, 5 MHz, low channel



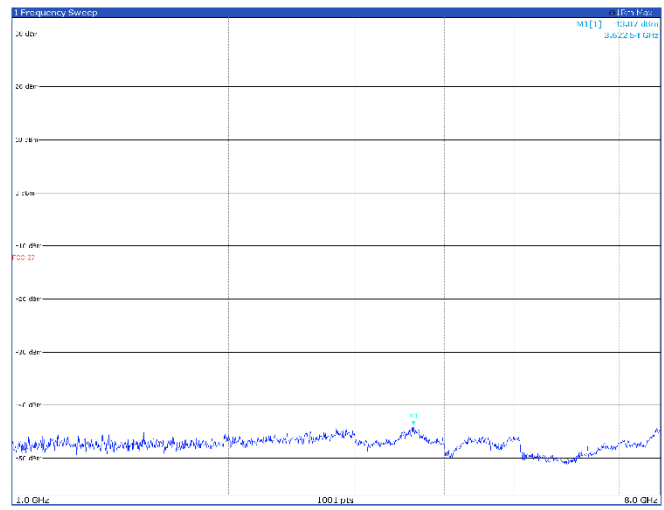
Limit exceeded by the carrier



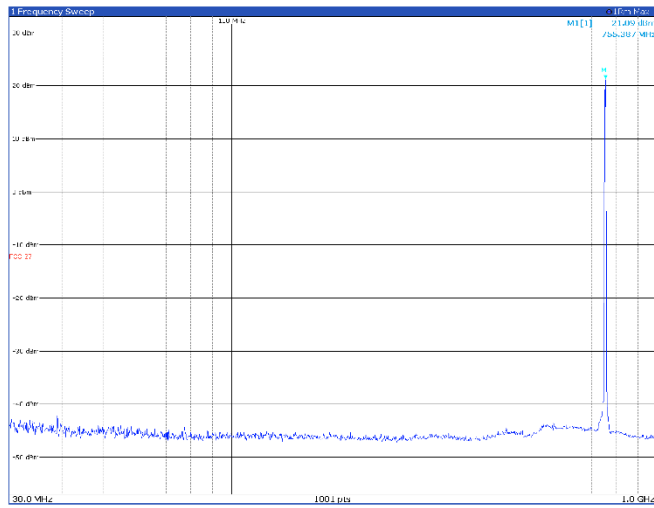
TM3p3, 5 MHz, mid channel



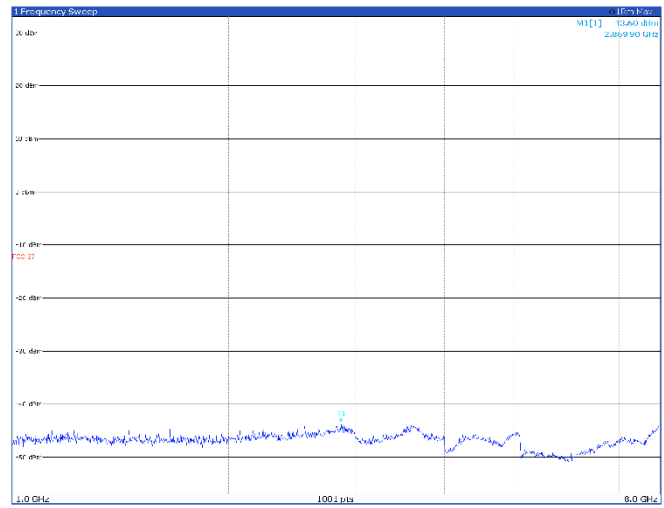
Limit exceeded by the carrier



TM3p3, 5 MHz, high channel



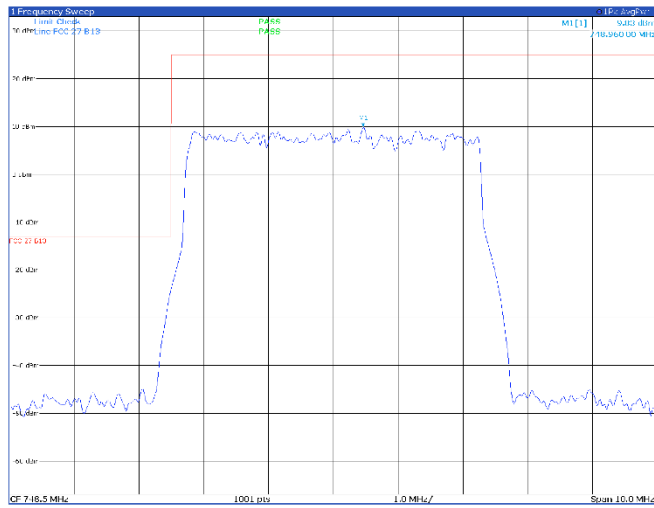
Limit exceeded by the carrier



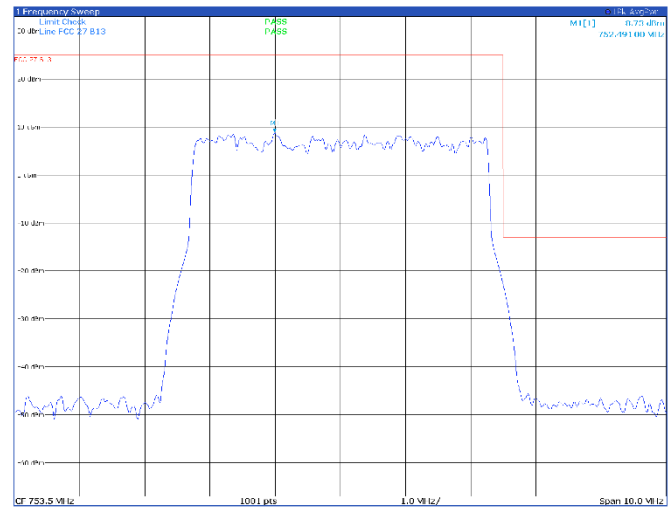
Band B13 – band edge Antenna port 1

5 MHz

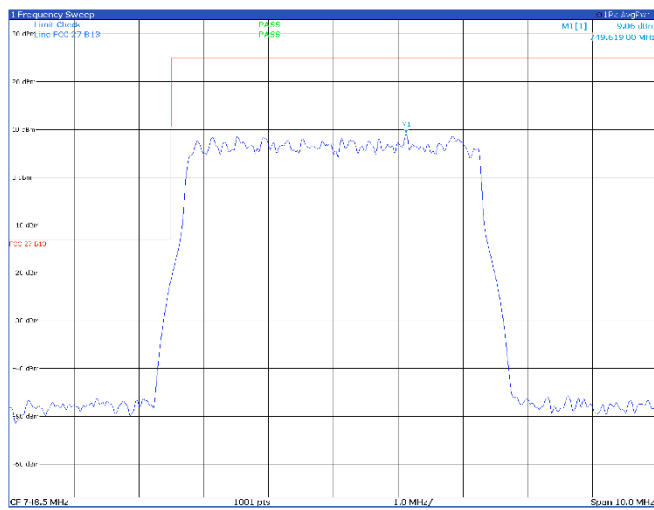
TM1.1, 5 MHz, low channel



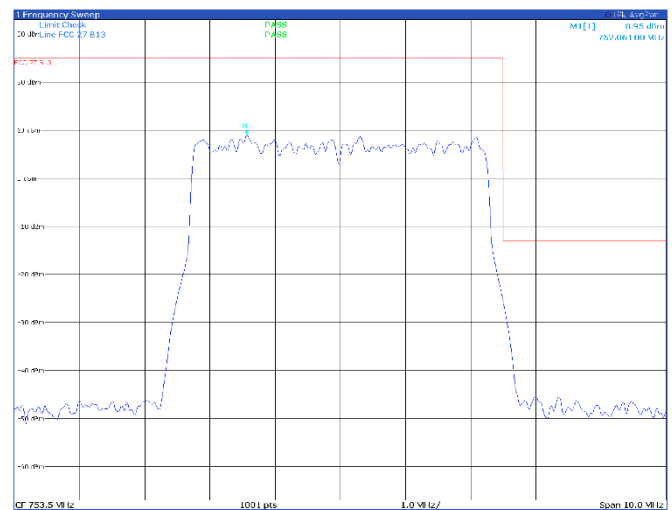
TM1.1, 5 MHz, high channel



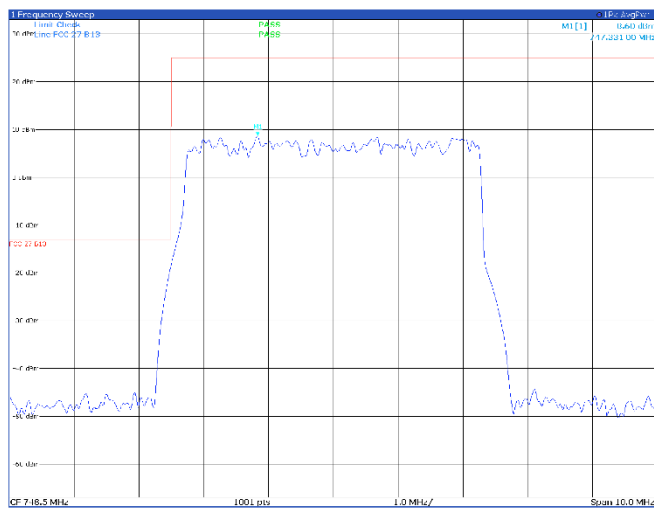
TM3p1, 5 MHz, low channel



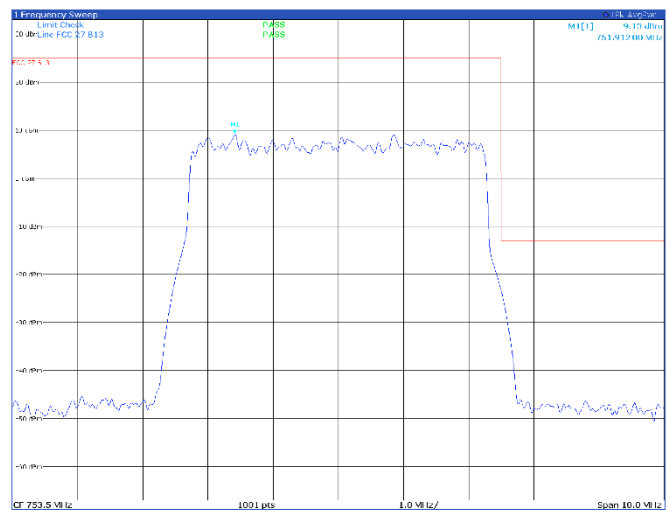
TM3p1, 5 MHz, high channel



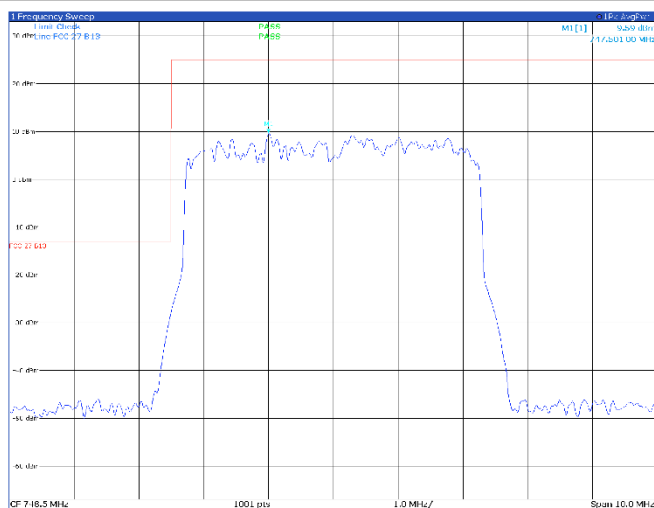
TM3p1a, 5 MHz, low channel



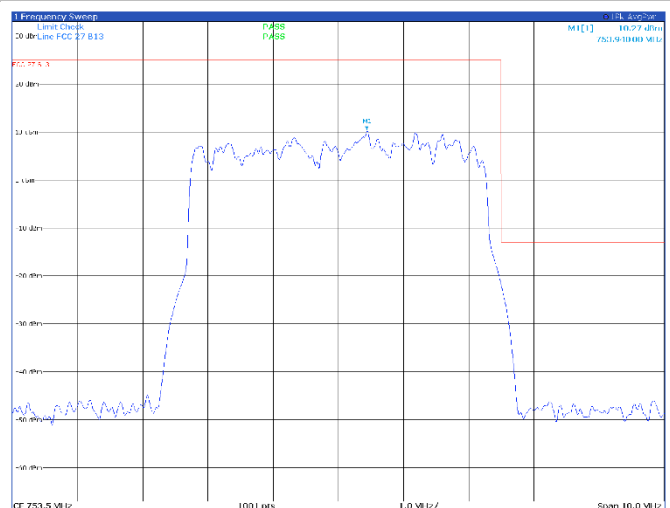
TM3p1a, 5 MHz, high channel



TM3p3, 5 MHz, low channel



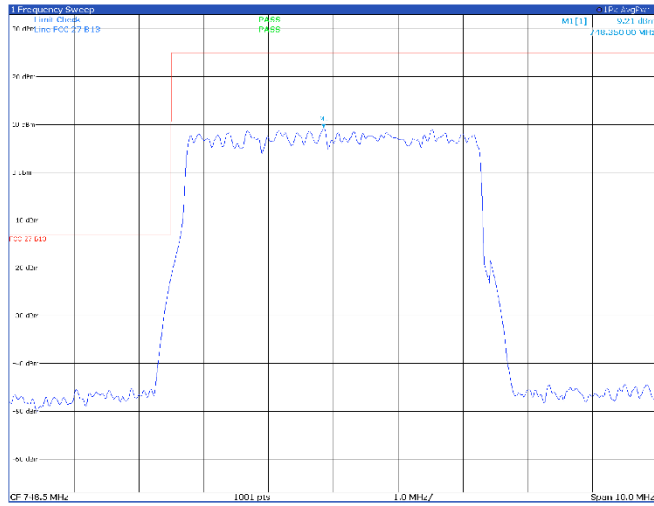
TM3p3, 5 MHz, high channel



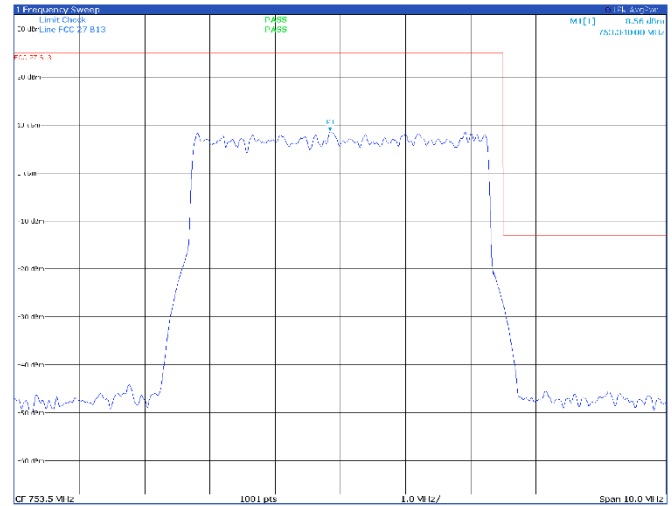
Band B13 – band edge Antenna port 2

5 MHz

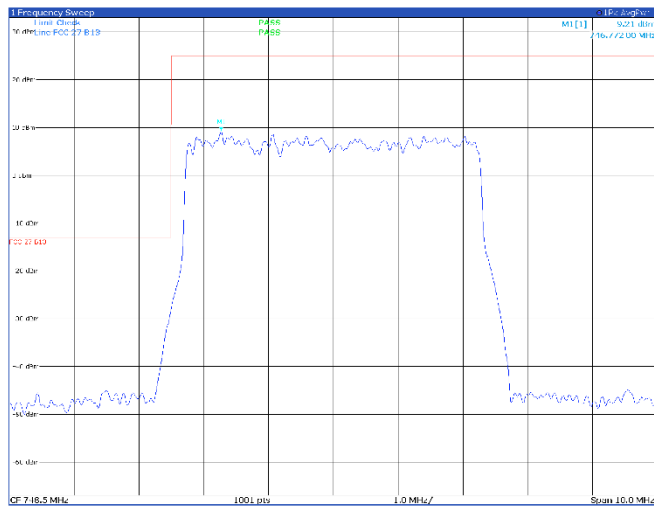
TM1.1, 5 MHz, low channel



TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



TM3p1, 5 MHz, high channel

