



## REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 Part 15 Subpart E 15.407 & ISED RSS-248

Report No.: RDWN99 – U2 Rev A

**Company:** Radwin

**Model Name:** RADWN 2000 E CON EC10

## REGULATORY COMPLIANCE TEST REPORT

**Company Name:** Radwin

**Model Name:** RADWN 2000 E CON EC10

**To:** FCC CFR 47 Part 15 Subpart E 15.407 & ISED RSS-248

**Test Report Serial No.:** RDWN99-U2 Rev A

This report supersedes: NONE

**Applicant:** Radwin  
27 Habarzel Street  
Tel Aviv, 6971039  
Israel

**Issue Date:** 8<sup>th</sup> October 2024

**This Test Report is Issued Under the Authority of:**

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MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

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## **1. ACCREDITATION, LISTINGS & RECOGNITION**

### **1.1. TESTING ACCREDITATION**

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard ISO/IEC 17025:2017. The company is accredited by the American Association for Laboratory Accreditation (A2LA) [www.a2la.org](http://www.a2la.org) test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



## 1.2. RECOGNITION

MiCOM Labs, Inc is widely recognized for its wireless testing and certification capabilities. In addition to being recognized for Testing and Certification under Phase 2 Mutual Recognition Agreements (MRA) with Canada, Europe, United Kingdom and Japan, our international recognition includes Conformity Assessment Body (CAB) designation status under agreements with Asia Pacific (APEC) MRA Phase 1 countries giving acceptance of MiCOM Labs test reports. MiCOM Labs test reports are accepted globally.

Country	Recognition Body	Status	MRA Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Test Firm Designation#: US1084
Canada	Industry Canada (ISED)	FCB	APEC MRA 2	US0159 ISED#: 4143A
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	Japan MRA 2	RCB 210
	Japan Approvals Institute for Telecommunication Equipment (JATE)			
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA 2	NB 2280
United Kingdom	Department for Business, Energy & Industrial Strategy (BEIS)	AB	UK MRA 2	AB 2280
Mexico	Instituto Federal de Telecomunicaciones (IFT)	CAB	Mexico MRA 1	US0159
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)			
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)			
Singapore	Infocomm Development Authority (IDA)			
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)			
Vietnam	Ministry of Communication (MIC)			

TCB – Telecommunications Certification Bodies (TCB)

FCB – Foreign Certification Body

CAB – Conformity Assessment Body

NB – Notified Body

AB – Approved Body

MRA – Mutual Recognition Agreement

MRA Phase I - recognition for product testing

Phase II – recognition for both product testing and certification

### **1.3. PRODUCT CERTIFICATION**

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065:2012. The company is accredited by the American Association for Laboratory Accreditation (A2LA) [www.a2la.org](http://www.a2la.org) test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-02.pdf>



United States of America – Telecommunication Certification Body (TCB)  
Industry Canada – Certification Body, CAB Identifier – US0159  
Europe – Notified Body (NB), NB Identifier - 2280  
UK – Approved Body (AB), AB Identifier - 2280  
Japan – Recognized Certification Body (RCB), RCB Identifier - 210

## **2. DOCUMENT HISTORY**

Document History		
Revision	Date	Comments
Draft	16 <sup>th</sup> September 2024	Draft for client review and comments
Draft	7 <sup>th</sup> October 2024	Draft for client review and comments
Rev A	8 <sup>th</sup> October 2024	Initial Release

In the above table the latest report revision will replace all earlier versions.

### **3. TEST RESULT CERTIFICATE**

**Manufacturer:** Radwin  
27 Haberzel Street  
Tel Aviv 6971032  
Israel

**Tested By:** MiCOM Labs, Inc.  
575 Boulder Court  
Pleasanton California 94566  
USA

**Model:** RADWN 2000 E CON EC10

**Telephone:** +1 925 462 0304

**Type Of Equipment:** 6 GHz High Performance PtP  
Outdoor Unit

**Fax:** +1 925 462 0306

**S/N's:** Prototype 1

**Test Date(s):** 12<sup>th</sup> – 24<sup>th</sup> September 2024

**Website:** [www.micomlabs.com](http://www.micomlabs.com)

#### **STANDARD(S)**

**FCC CFR 47 Part 15 Subpart E 15.407 & ISED  
RSS-248**

#### **TEST RESULTS**

**EQUIPMENT COMPLIES**

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

#### **Notes:**

1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

**Approved & Released for MiCOM Labs, Inc. by:**



Graeme Grieve  
Quality Manager MiCOM Labs, Inc.

Gordon Hurst  
President & CEO MiCOM Labs, Inc.

## 4. REFERENCES AND MEASUREMENT UNCERTAINTY

### 4.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
I	KDB 662911 D01, D02, D03	D01 Oct 2013, D02 Oct 2011, D03 Oct 2020	Guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band. 662911 D01 Multiple Transmitter Output v02r01, 662911 D02 MIMO with Cross Polarized Antenna v01, 662911 D03 MIMO Antenna Gain Measurement v01, OET 13TR1003 Directional Gain of 802.11 MIMO with CDD 04.05.2013
II	KDB 905462 D07 v02	Aug 2016	Test guidance to demonstrate compliance for U-NII devices subject to DFS requirements.
III	KDB 926956 D01 v02	Aug 2016	U-NII Device Transition Plan
IV	A2LA	16th April 2024	R105 - Requirement's When Making Reference to A2LA Accreditation Status
V	ANSI C63.10	2020	American National Standard for Testing Unlicensed Wireless Devices
VI	ANSI C63.4	2014 + 2017 Amendment	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
VII	ETSI TR 100 028	2001-12	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
VIII	FCC 06-96	Jun 2006	Memorandum Opinion and Order
IX	FCC 47 CFR Part 15.407	2021	Radio Frequency Devices; Subpart E –Unlicensed National Information Infrastructure Devices
X	ICES-003	Issue 7; Oct 2020	Information Technology Equipment (Including Digital Apparatus)
XI	UKAS M3003	Edition 6 March 2024	The Expression of Uncertainty and Confidence in Measurements
XII	RSS-247 Issue 3	Aug 2023	Digital Transmission Systems (DTSs), Frequency Hopping System (FHSs) and Licence-Exempt Local Area Network (LE-LEN) Devices
XIII	RSS-Gen Issue 5	Amendment 1,2 (Feb 2021)	General Requirements for Compliance of Radio Apparatus. With Amendments 1: March 2019 and 2: Feb 2021.
XIV	FCC 47 CFR Part 2.1033	Feb 2023	FCC requirements and rules regarding photographs and test setup diagrams.
XV	KDB 789033 D02 V02r01	Dec 2017	Guidelines For Compliance Testing Of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
XVI	UKAS LAB 12	Edition 4 April 2022	The Expression of Uncertainty in Testing
XVII	KDB 987594 D01 U-NII	Aug 22 2023	Part 15 Subpart E U-NII 6GHz General Guidance Bands 5, 6, 7, and 8
XVIII	KDB 987594 D02 U-NII	Aug 9 <sup>th</sup> 2023	Guidelines For Compliance Testing Of Unlicensed National Information Infrastructure 6GHz (U-NII) Devices Part 15 Subpart E
XIV	ISED RSS-248 ISSUE 2	Dec 20 <sup>th</sup> 2022	This Radio Standards Specification (RSS) sets out the certification requirements for licence-exempt Radio Local Area Network (RLAN) devices operating in the 5925-7125 MHz frequency band (the 6 GHz band). The RLAN devices with occupied bandwidths that fall into other frequency bands (e.g., the 2.4 GHz band) shall comply with the requirements for each respective band specified in the applicable RSS standard(s).

#### **4.2. Test and Uncertainty Procedure**

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

## 5. PRODUCT DETAILS AND TEST CONFIGURATIONS

### 5.1. Technical Details

Details	Description
Purpose:	Test of the RADWN 2000 E CON EC10 to FCC CFR 47 Part 15 Subpart E 15.407 & ISED RSS-248
Applicant:	Radwin 27 Habarzel Street Tel Aviv . 6971032 Israel
Manufacturer:	Radwin
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Test report reference number:	RDWN99-U2
Date EUT received:	29 <sup>th</sup> August 2024
Standard(s) applied:	FCC CFR 47 Part 15 Subpart E 15.407 & ISED RSS-248
Dates of test (from - to):	12 <sup>th</sup> - 24 <sup>th</sup> September 2024
Product Family Name:	RADWIN 2000
Model(s):	RADWN 2000 E CON EC10
Location for use:	Outdoors
Declared Frequency Range(s):	5925 - 6425 MHz; 6525 - 6875 MHz;
Type of Modulation:	OFDM
EUT Modes of Operation:	20MHz, 40MHz, 80MHz, 160MHz
Declared Nominal Output Power (dBm):	+23 dBm
Transmit/Receive Operation:	Transceiver
Rated Input Voltage and Current:	56VDC 1A
Operating Temperature Range:	-40°C to +60°C
ITU Emission Designator:	20M0W7W, 40M0W7W, 80M0W7W, 160M0W7W
Equipment Dimensions:	4.2 / 10.1 / 4.9 in
Weight:	2.7 lb
Hardware Rev:	Prototype
Software Rev:	A

## **5.2. Scope Of Test Program**

### **RADWN 2000 E CON EC10**

The scope of the test program was to test the RADWN 2000 E CON EC10 in the frequency ranges 5925 - 6425 MHz; 6525 - 6875 MHz; for compliance against the following specification:

#### **FCC CFR 47 Part 15 Subpart E 15.407 (2024-08-20)**

This subpart sets out the regulations for Unlicensed National Information Infrastructure (U-NII) devices operating in the 5.15-5.35 GHz, 5.47-5.895 GHz bands, and 5.925-7.125 GHz bands.

#### **ISED RSS-248 Issue 2**

This Radio Standards Specification (RSS) sets out the certification requirements for licence-exempt Radio Local Area Network (RLAN) devices operating in the 5925-7125 MHz frequency band (the 6 GHz band). The RLAN devices with occupied bandwidths that fall into other frequency bands (e.g., the 2.4 GHz band) shall comply with the requirements for each respective band specified in the applicable RSS standard(s).

### 5.3. Equipment Model(s) and Serial Number(s)

Type	Equipment Description	Manufacturer	Model No.	Serial No.
EUT	6 GHz High Performance PtP Outdoor Unit	RADWIN	RADWIN 2000E CON EC10	Prototype
Support	POE Power Supply	Gospell	G0566-560-100	--
Support	Laptop	Dell	--	--

### 5.4. Antenna Details

Type	Manufacturer	Model	Family	Gain (dBi)	BF Gain	Dir BW	X-Pol	Frequency Band (MHz)
external	RADWIN	RW-9628-5872	Dish	28.0	-	6	-	5925 - 6425
external	RADWIN	RW-9628-5872	Dish	28.0	-	6	-	6525 - 6875
external	RADWIN	RW-9632-5872	Dish	32.0	-	4	-	5925 - 6425
external	RADWIN	RW-9632-5872	Dish	32.0	-	4	-	6525 - 6875

BF Gain - Beamforming Gain  
 Dir BW - Directional BeamWidth  
 X-Pol - Cross Polarization

### 5.5. Cabling and I/O Ports

Port Type	Max Cable Length	# of Ports	Screened	Connector Type	Data Type	Bit Rate Mbit/s
Ethernet PoE IN	>30m	1	No	RJ45	Packet Data	1000

## 5.6. Test Configurations

Results for the following configurations are provided in this report:

Operational Mode(s)	Data Rate with Highest Power MBit/s	Channel Frequency (MHz)		
		Low	Mid	High
<b>5925 - 6425 MHz</b>				
20 MHz	8.6	5,945.00	6,175.00	6,415.00
40 MHz	17.2	5,960.00	6,175.00	6,405.00
80 MHz	36	5,985.00	6,175.00	6,385.00
160 MHz	72.1	6,025.00	6,175.00	6,345.00
<b>6525 - 6875 MHz</b>				
20 MHz	8.6	6,535.00	6,700.00	6,865.00
40 MHz	17.2	6,545.00	6,700.00	6,855.00
80 MHz	36	6,565.00	6,700.00	6,835.00
160 MHz	72.1	6,605.00	6,700.00	6,795.00

## 5.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

## 5.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

## **6. TEST SUMMARY**

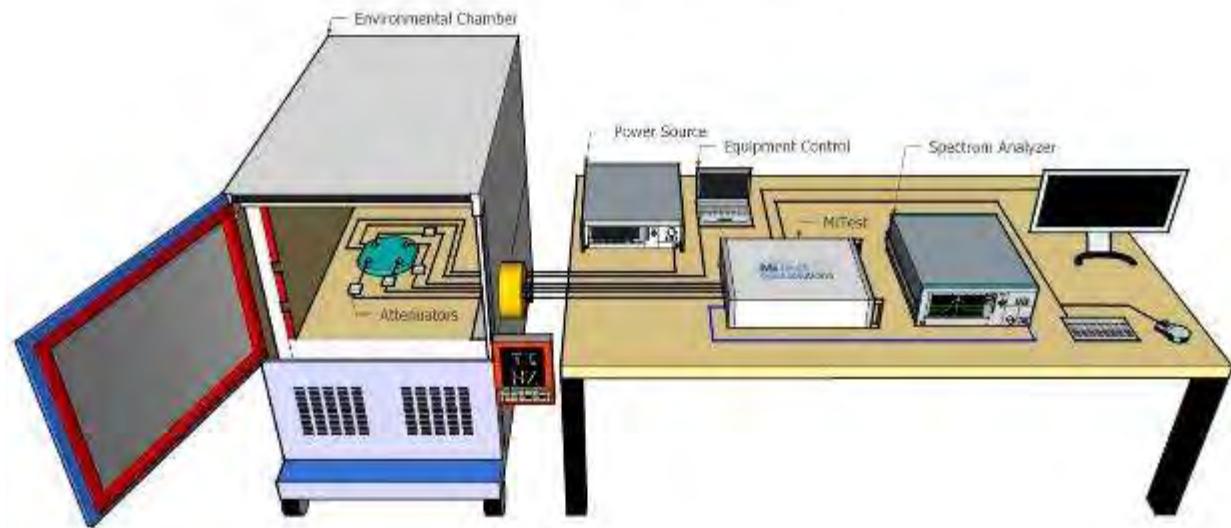
### List of Measurements

Test Header	Result	Data Link
Peak Transmit Power	Complies	<a href="#">View Data</a>
26 dB & 99% Bandwidth	Complies	<a href="#">View Data</a>
Power Spectral Density	Complies	<a href="#">View Data</a>
In-Band Spectrum Emission Mask	Complies	<a href="#">View Data</a>
Radiated	Complies	<a href="#">View Data</a>
TX Spurious & Restricted Band Emissions	Complies	-
Restricted Edge & Band-Edge Emissions	Complies	-
Digital Emissions	Complies	-
AC Wireline	Complies	<a href="#">View Data</a>

## 7. TEST EQUIPMENT CONFIGURATION(S)

### 7.1. Conducted RF

MiTest Automated Test System



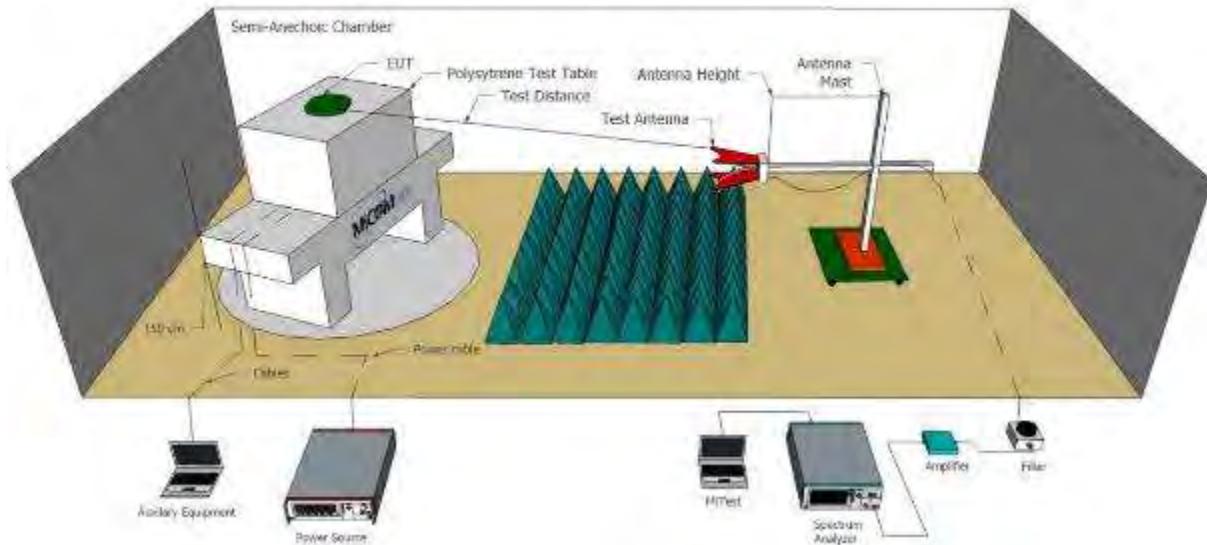
A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
#3 SA	MiTest Box to SA	Fairview Microwave	SCA1814-0101-72	#3 SA	26 Oct 2024
#3P1	EUT to MiTest box port 1	Fairview Microwave	SCA1814-0101-72	#3P1	26 Oct 2024
#3P2	EUT to MiTest box port 2	Fairview Microwave	SCA1814-0101-72	#3P2	26 Oct 2024
#3P3	EUT to MiTest box port 3	Fairview Microwave	SCA1814-0101-72	#3P3	26 Oct 2024
#3P4	EUT to MiTest box port 4	Fairview Microwave	SCA1812-0101-72	#3P4	26 Oct 2024
249	Thermocouple; Resistance Thermometer	Thermotronics	GR2105-02	9340 #2	22 Mar 2025
266	10 Hz to 50GHz MXA Signal Analyzer	Keysight	N9020B	MY60110791	25 Jul 2025
285	DC Power Supply	Keysight	E36155A	MY63000156	4 Dec 2024
398	MiTest RF Conducted Test Software	MiCOM	MiTest ATS	Version 4.2.3.0	Not Required
405	DC Power Supply 0-60V	Agilent	6654A	MY4001826	Cal when used
408	USB to GPIB interface	National Instruments	GPIB-USB HS	14C0DE9	Not Required
441	USB Wideband Power Sensor	Boonton	55006	9179	4 Dec 2024
442	USB Wideband Power Sensor	Boonton	55006	9181	12 Dec 2024
445	PoE Injector	D-Link	DPE-101GL	QTAH1E2000625	Not Required
461	Spectrum Analyzer	Agilent	E4440A	MY46185537	27 Sep 2025
493	USB Wideband Power Sensor	Boonton	55006	9634	8 Oct 2024
494	USB Wideband Power Sensor	Boonton	55006	9726	12 Dec 2024
510	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2026
512	MiTest Cloud Solutions RF Test Box	MiCOM	2nd Gen	512	24 Oct 2024
516	USB Wideband Power Sensor	Boonton	RTP5006	10511	4 Dec 2024
555	Rhode & Schwarz Receiver (Firmware Version: 3.10 SP1)	Rhode & Schwarz	ESW 44	101893	28 Jun 2025
75	Environmental Chamber	Thermatron	SE-300-2-2	27946	20 Nov 2024

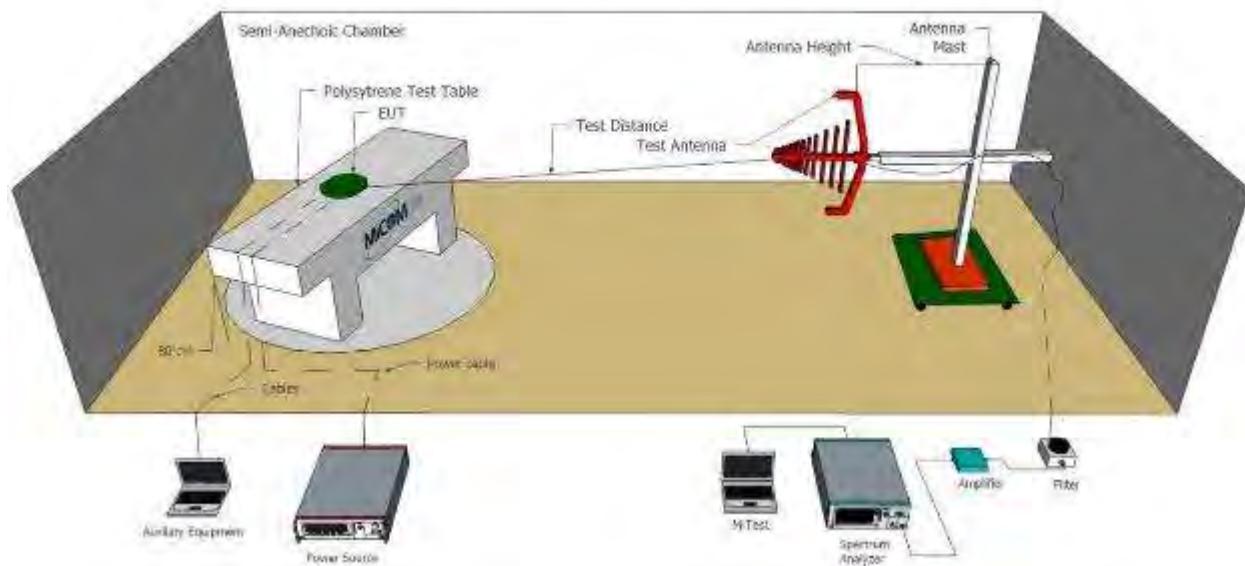
## 7.2. Radiated Emissions

The following tests were performed using the radiated test set-up shown in the diagram below. Radiated emissions above and below 1GHz.

Radiated Emissions Above 1GHz Test Setup



Radiated Emissions Below 1GHz Test Setup



**Test Equipment Utilized**

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CU101	04R08507	Not Required
285	DC Power Supply	Keysight	E36155A	MY63000156	4 Dec 2024
298	3M Radiated Emissions Chamber Maintenance Check	MiCOM	3M Chamber	298	11 Oct 2024
330	Variac 0-280 Vac	Staco Energy Co	3PN1020B	0546	Cal when used
336	Active loop Ant 10kHz to 30 MHz	EMCO	EMCO 6502	00060498	7 Dec 2024
338	Sunol 30 to 3000 MHz Antenna	Sunol	JB3	A052907	5 Dec 2024
373	26III RMS Multimeter	Fluke	Fluke 26 series III	76080720	29 Sep 2025
397	Amp 10 - 2500MHz	MiCOM Labs	Amp 10 - 2500 MHz	NA	27 Oct 2024
399	ETS 1-18 GHz Horn Antenna	ETS	3117	00154575	7 Dec 2024
406	Amplifier for Radiated Emissions	MiCOM Labs	40dB 1 to 18GHz Amp	0406	2 Nov 2024
410	Desktop Computer	Dell	Inspiron 620	WS38	Not Required
411	Mast/Turntable Controller	Sunol Sciences	SC98V	060199-1D	Not Required
412	USB to GPIB Interface	National Instruments	GPIB-USB HS	11B8DC2	Not Required
413	Mast Controller	Sunol Science	TWR95-4	030801-3	Not Required
415	Turntable Controller	Sunol Sciences	Turntable Controller	None	Not Required
416	Gigabit ethernet filter	ETS-Lingren	Gigafoil 260366	None	Not Required
447	MiTest Rad Emissions Test Software	MiCOM	Version 1.0	447	Not Required
462	Schwarzbeck cable from Antenna to Amplifier.	Schwarzbeck	AK 9513	462	18 Jan 2025
463	Schwarzbeck cable from Amplifier to Bulkhead.	Schwarzbeck	AK 9513	463	18 Jan 2025
464	Schwarzbeck cable from Bulkhead to Receiver	Schwarzbeck	AK 9513	464	16 Jan 2025
465	Low Pass Filter DC-1000 MHz	Mini-Circuits	NLP-1200+	VUU01901402	14 Jan 2025
480	Cable - Bulkhead to Amp	SRC Haverhill	157-3050360	480	18 Jan 2025
481	Cable - Bulkhead to Receiver	SRC Haverhill	151-3050787	481	18 Jan 2025
510	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2026
554	Precision SMA Cable	Fairview Microwave	SCE18060101-400CM	554	18 Jan 2025

555	Rhode & Schwarz Receiver	Rhode & Schwarz	ESW 44	101893	28 Jun 2025
578	DC Power Supply 0 - 60 V, 0 - 15 A	HP	6274B	2537A-08192	Not Required
579	5900 MHz - 7200 MHz Notch Filter	Microtronics	BRM50741	G001	6 Jun 2025
87	Uninterruptible Power Supply	Falcon Electric	ED2000-1/2LC	F3471 02/01	Cal when used
CC05	Confidence Check	MiCOM	CC05	None	11 Nov 2024

## 8. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by [MiTest](#). [MiTest](#) is an automated test system developed by MiCOM Labs. [MiTest](#) is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.



The MiCOM Labs "[MiTest](#)" Automated Test System" (Patent Pending)

## 9. TEST RESULTS

### 9.1. Peak Transmit Power

Conducted Test Conditions for Maximum Conducted Output Power			
<b>Standard:</b>	FCC CFR 47:15.407	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	Maximum Conducted Output Power	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.407 (a)	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

#### Test Procedure for Maximum Conducted Output Power Measurement

Method PM (Measurement using an RF average power meter). KDB 789033 defines a methodology using an average wideband power meter. Measurements were made while the EUT was operating in a continuous transmission mode (100% duty cycle) at the appropriate center frequency. All operational modes and frequency bands were measured independently and the resultant calculated. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported separately. A summation ( $\Sigma$ ) of each antenna port output power is provided which includes any offset due to Duty Cycle Correction Factor (DCCF). Testing was performed under ambient conditions at nominal voltage.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

#### Supporting Information

Calculated Power =  $A + G + Y + 10 \log (1/x)$  dBm

$A$  = Total Power  $[10^{\log_{10} (10^{a/10} + 10^{b/10} + 10^{c/10} + 10^{d/10})}]$

$G$  = Antenna Gain

$Y$  = Beamforming Gain

$x$  = Duty Cycle (average power measurements only)

#### Limits Maximum Conducted Output Power

##### Operating Frequency Band 5925 – 6425 MHz

15.407(a)(4)

For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

##### Operating Frequency Band 5925 – 7125 MHz (KDB 987594 D01)

Standard Power Access Point: +36 dBm EIRP

Fixed Client: +36 dBm EIRP

Standard Client: +30 dBm EIRP & 6 dB below Standard Access Point

### 9.1.1 RADWIN RW-9628-5872

Equipment Configuration for Peak Transmit Power			
<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results									
Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
5945.0	4.31	4.70	--	--	7.52	35.52	36.00	-0.48	9.50
6175.0	4.76	5.05	--	--	7.92	35.92	36.00	-0.08	5.50
6415.0	4.26	5.09	--	--	7.71	35.71	36.00	-0.29	6.00

Traceability to Industry Recognized Test Methodologies									
		Work Instruction: WI-01 MEASURING RF OUTPUT POWER							
		Measurement Uncertainty: $\pm 1.33$ dB							

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
5960.0	4.69	5.25	--	--	7.99	35.99	36.00	-0.01	9.50
6175.0	4.68	5.19	--	--	7.95	35.95	36.00	-0.05	5.50
6405.0	4.01	5.14	--	--	7.62	35.62	36.00	-0.38	6.00

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
5985.0	4.77	5.16	--	--	7.98	35.98	36.00	-0.02	6.00
6175.0	4.55	5.17	--	--	7.88	35.88	36.00	-0.12	6.00
6385.0	4.49	5.27	--	--	7.91	35.91	36.00	-0.09	6.00

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

Equipment Configuration for Peak Transmit Power	
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<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results								
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Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6025.0	4.56	5.12	--	--	7.86	35.86	36.00	-0.14	7.50
6175.0	4.74	5.22	--	--	8.00	36.00	36.00	0.00	4.50
6345.0	4.30	5.55	--	--	7.98	35.98	36.00	-0.02	4.50

Traceability to Industry Recognized Test Methodologies									
Work Instruction:		WI-01 MEASURING RF OUTPUT POWER							
Measurement Uncertainty:		$\pm 1.33$ dB							

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6535.0	5.74	3.97	--	--	7.95	35.95	36.00	-0.05	5.50
6700.0	5.21	4.49	--	--	7.88	35.88	36.00	-0.12	5.50
6865.0	5.22	4.62	--	--	7.94	35.94	36.00	-0.06	5.50

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6545.0	4.68	4.92	--	--	7.81	35.81	36.00	-0.19	4.50
6700.0	4.46	4.64	--	--	7.56	35.56	36.00	-0.44	4.50
6855.0	4.22	4.90	--	--	7.58	35.58	36.00	-0.42	5.00

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6565.0	5.08	4.88	--	--	7.99	35.99	36.00	-0.01	5.50
6700.0	4.97	4.95	--	--	7.97	35.97	36.00	-0.03	5.00
6835.0	4.32	4.96	--	--	7.66	35.66	36.00	-0.34	5.50

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

Equipment Configuration for Peak Transmit Power	
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<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results								
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Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6605.0	4.98	4.79	--	--	7.90	35.90	36.00	-0.10	4.50
6700.0	4.94	5.00	--	--	7.98	35.98	36.00	-0.02	4.50
6795.0	4.67	5.23	--	--	7.97	35.97	36.00	-0.03	5.00

Traceability to Industry Recognized Test Methodologies									
Work Instruction:		WI-01 MEASURING RF OUTPUT POWER							
Measurement Uncertainty:		$\pm 1.33$ dB							

### 9.1.2 RADWIN RW-9632-5872

Equipment Configuration for Peak Transmit Power			
<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results									
Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
5945.0	0.26	0.67	--	--	3.48	35.48	36.00	-0.52	5.50
6175.0	0.55	1.13	--	--	3.86	35.86	36.00	-0.14	0.50
6415.0	0.36	1.03	--	--	3.72	35.72	36.00	-0.28	2.00

Traceability to Industry Recognized Test Methodologies								
		Work Instruction: WI-01 MEASURING RF OUTPUT POWER						
		Measurement Uncertainty: $\pm 1.33$ dB						

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
5960.0	0.69	1.06	--	--	3.89	35.89	36.00	-0.11	5.50
6175.0	0.48	1.27	--	--	3.90	35.90	36.00	-0.10	1.50
6405.0	0.15	1.01	--	--	3.61	35.61	36.00	-0.39	2.00

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power	
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<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results								
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Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
5985.0	0.57	1.26	--	--	3.94	35.94	36.00	0.06	2.00
6175.0	0.67	1.01	--	--	3.85	35.85	36.00	0.15	2.00
6385.0	0.33	1.07	--	--	3.73	35.73	36.00	0.27	2.00

Traceability to Industry Recognized Test Methodologies									
Work Instruction:		WI-01 MEASURING RF OUTPUT POWER							
Measurement Uncertainty:		$\pm 1.33$ dB							

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6025.0	0.11	1.09	--	--	3.64	35.64	36.00	-0.36	3.50
6175.0	0.23	1.21	--	--	3.76	35.76	36.00	-0.24	0.50
6345.0	0.25	1.15	--	--	3.73	35.73	36.00	-0.27	0.50

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6535.0	1.51	0.33	--	--	3.97	35.97	36.00	-0.03	0.50
6700.0	1.22	0.45	--	--	3.86	35.86	36.00	-0.14	5.50
6865.0	1.14	0.66	--	--	3.92	35.92	36.00	-0.08	0.50

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6545.0	0.53	0.86	--	--	3.71	35.71	36.00	-0.29	0.50
6700.0	0.33	0.57	--	--	3.46	35.46	36.00	-0.54	0.50
6855.0	0.31	0.83	--	--	3.59	35.59	36.00	-0.41	1.00

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power	
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<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results								
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Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6565.0	1.11	0.67	--	--	3.91	35.91	36.00	-0.09	1.50
6700.0	0.59	0.87	--	--	3.74	35.74	36.00	-0.26	1.00
6835.0	0.41	0.87	--	--	3.66	35.66	36.00	-0.34	1.50

Traceability to Industry Recognized Test Methodologies									
Work Instruction:		WI-01 MEASURING RF OUTPUT POWER							
Measurement Uncertainty:		$\pm 1.33$ dB							

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

**Equipment Configuration for Peak Transmit Power**

<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	32.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power	Total EIRP	Limit EIRP	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	$\Sigma$ Port(s) dBm	dBm	dBm	dB	
6605.0	0.38	0.87	--	--	3.64	35.64	36.00	-0.36	0.50
6700.0	0.78	0.91	--	--	3.86	35.86	36.00	-0.14	0.50
6795.0	0.55	1.17	--	--	3.88	35.88	36.00	-0.12	1.00

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

## **9.2. 26 dB & 99% Bandwidth**

Conducted Test Conditions for 26 dB and 99% Bandwidth			
<b>Standard:</b>	FCC CFR 47:15.407	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	26 dB and 99 % Bandwidth	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.407 (a)	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		
<b>Test Procedure for 26 dB and 99% Bandwidth Measurement</b> The bandwidth at 26 dB and 99 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to approximately 1% of the emission bandwidth. Testing was performed under ambient conditions at nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported.  Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document. Fundamental Bandwidth Limit: 320MHz			

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5945.0	<a href="#">22.365</a>	<a href="#">21.964</a>	--	--	22.365	21.964		
6175.0	<a href="#">22.204</a>	<a href="#">21.884</a>	--	--	22.204	21.884		
6415.0	<a href="#">21.723</a>	<a href="#">21.964</a>	--	--	21.964	21.723		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5945.0	<a href="#">17.796</a>	<a href="#">17.876</a>	--	--	17.876	17.796		
6175.0	<a href="#">17.876</a>	<a href="#">17.876</a>	--	--	17.876	17.876		
6415.0	<a href="#">17.796</a>	<a href="#">17.796</a>	--	--	17.796	17.796		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5960.0	<a href="#">44.569</a>	<a href="#">44.729</a>	--	--	44.729	44.569		
6175.0	<a href="#">44.890</a>	<a href="#">44.729</a>	--	--	44.890	44.729		
6405.0	<a href="#">44.088</a>	<a href="#">44.088</a>	--	--	44.088	44.088		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5960.0	<a href="#">38.156</a>	<a href="#">38.156</a>	--	--	38.156	38.156		
6175.0	<a href="#">38.156</a>	<a href="#">38.317</a>	--	--	38.317	38.156		
6405.0	<a href="#">37.996</a>	<a href="#">38.156</a>	--	--	38.156	37.996		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5985.0	<a href="#">92.345</a>	<a href="#">92.665</a>	--	--	92.665	92.345		
6175.0	<a href="#">92.665</a>	<a href="#">90.421</a>	--	--	92.665	90.421		
6385.0	<a href="#">91.383</a>	<a href="#">91.383</a>	--	--	91.383	91.383		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5985.0	<a href="#">78.236</a>	<a href="#">78.236</a>	--	--	78.236	78.236		
6175.0	<a href="#">78.236</a>	<a href="#">78.557</a>	--	--	78.557	78.236		
6385.0	<a href="#">78.236</a>	<a href="#">78.236</a>	--	--	78.236	78.236		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6025.0	<a href="#">172.505</a>	<a href="#">173.788</a>	--	--	173.788	172.505		
6175.0	<a href="#">173.788</a>	<a href="#">172.505</a>	--	--	173.788	172.505		
6345.0	<a href="#">173.146</a>	<a href="#">173.788</a>	--	--	173.788	173.146		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6025.0	<a href="#">157.756</a>	<a href="#">158.397</a>	--	--	158.397	157.756		
6175.0	<a href="#">157.756</a>	<a href="#">157.756</a>	--	--	157.756	157.756		
6345.0	<a href="#">157.756</a>	<a href="#">158.397</a>	--	--	158.397	157.756		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6535.0	<a href="#">21.323</a>	<a href="#">21.723</a>	--	--	21.723	21.323		
6700.0	<a href="#">21.242</a>	<a href="#">21.242</a>	--	--	21.242	21.242		
6865.0	<a href="#">21.002</a>	<a href="#">21.323</a>	--	--	21.323	21.002		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6535.0	<a href="#">17.796</a>	<a href="#">17.876</a>	--	--	17.876	17.796		
6700.0	<a href="#">17.715</a>	<a href="#">17.796</a>	--	--	17.796	17.715		
6865.0	<a href="#">17.796</a>	<a href="#">17.876</a>	--	--	17.876	17.796		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6545.0	<a href="#">44.248</a>	<a href="#">44.088</a>	--	--	44.248	44.088		
6700.0	<a href="#">43.928</a>	<a href="#">44.088</a>	--	--	44.088	43.928		
6855.0	<a href="#">44.088</a>	<a href="#">44.088</a>	--	--	44.088	44.088		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6545.0	<a href="#">37.996</a>	<a href="#">38.156</a>	--	--	38.156	37.996		
6700.0	<a href="#">38.156</a>	<a href="#">38.156</a>	--	--	38.156	38.156		
6855.0	<a href="#">37.996</a>	<a href="#">38.156</a>	--	--	38.156	37.996		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6565.0	<a href="#">89.780</a>	<a href="#">90.421</a>	--	--	90.421	89.780		
6700.0	<a href="#">89.459</a>	<a href="#">89.138</a>	--	--	89.459	89.138		
6835.0	<a href="#">88.176</a>	<a href="#">89.459</a>	--	--	89.459	88.176		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6565.0	<a href="#">77.916</a>	<a href="#">77.916</a>	--	--	77.916	77.916		
6700.0	<a href="#">78.236</a>	<a href="#">78.236</a>	--	--	78.236	78.236		
6835.0	<a href="#">77.916</a>	<a href="#">78.236</a>	--	--	78.236	77.916		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for 26 dB & 99% Occupied Bandwidth**

<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6605.0	<a href="#">171.864</a>	<a href="#">171.864</a>	--	--	171.864	171.864		
6700.0	<a href="#">171.222</a>	<a href="#">173.788</a>	--	--	173.788	171.222		
6795.0	<a href="#">171.864</a>	<a href="#">173.788</a>	--	--	173.146	171.864		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
6605.0	<a href="#">157.114</a>	<a href="#">157.114</a>	--	--	157.114	157.114		
6700.0	<a href="#">157.114</a>	<a href="#">157.114</a>	--	--	157.114	157.114		
6795.0	<a href="#">157.114</a>	<a href="#">157.114</a>	--	--	157.114	157.114		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

### 9.3. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
<b>Standard:</b>	FCC CFR 47:15.407	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	Power Spectral Density	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.407 (a)	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

#### Test Procedure for Power Spectral Density

The in-band power spectral density was measured using the test technique specified in KDB 789033. A 1 MHz measurement bandwidth was implemented for the analyzer sweep. Once the sweep is complete the analyzer trace data is downloaded and used for post processing purposes.

Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. The Peak Power Spectral Density is the highest level found across the emission bandwidth. With multiple antenna port measurements the numerical analyzer data from each port is summed (a) and a link to this additional graphic is provided.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

Measure and sum the spectra across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The individual spectra are then summed mathematically in linear power units. Unlike in-band power measurements, in which the sum involves a single measured value (output power) from each output, measurements for compliance with PSD limits involve summing entire spectra across corresponding frequency bins on the various outputs. Consistency is maintained for any device with multiple transmitter outputs to be certain the individual outputs are all aligned with the same span and same number of points. In this instance, the linear power spectrum value within the first spectral bin of output 0 is summed with that in the first spectral bin of output 1, and the first spectral bin of output 2, and so on up to the Nth output to obtain the true value for the first frequency bin of the summed spectrum. The summed spectrum value for each frequency bin is computed in this fashion. These summed spectral values were post processed and the resulting numerical and graphical data presented.

NOTE: It may be observed that spectrum in some plots break the limit line however this in itself does NOT constitute a failure. In all cases a spectrum summation plot is provided in order to prove compliance. A failure occurs only after the summation of all spectrum plots have been summed and are found to be greater than the limit line.

#### Supporting Information

Calculated Power = A + 10 log (1/x) dBm

A = Total Power Spectral Density [10<sup>a/10</sup> + 10<sup>b/10</sup> + 10<sup>c/10</sup> + 10<sup>d/10</sup>]

x = Duty Cycle

#### Limits Power Spectral Density

##### Operating Frequency Band 5925-6425 MHz

###### 15. 407 (a)(4)

For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

##### Operating Frequency Band 5925 – 7125 MHz

Fundamental Power Spectral Density: +23 dBm/MHz Per Table 2 KDB 987594 D01

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
	Port(s) (dBm/MHz)							
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dBm/MHz	dB
5945.0	<a href="#">-9.618</a>	<a href="#">-8.839</a>	--	--	<a href="#">-6.506</a>	21.494	23.0	-1.506
6175.0	<a href="#">-8.345</a>	<a href="#">-7.391</a>	--	--	<a href="#">-5.108</a>	22.892	23.0	-0.108
6415.0	<a href="#">-7.851</a>	<a href="#">-7.584</a>	--	--	<a href="#">-5.078</a>	22.922	23.0	-0.078

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
	Port(s) (dBm/MHz)							
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dBm/MHz	dB
5960.0	<a href="#">-10.244</a>	<a href="#">-9.660</a>	--	--	<a href="#">-7.280</a>	20.72	23.0	-2.28
6175.0	<a href="#">-9.757</a>	<a href="#">-8.906</a>	--	--	<a href="#">-6.540</a>	21.46	23.0	-1.54
6405.0	<a href="#">-9.177</a>	<a href="#">-8.274</a>	--	--	<a href="#">-6.017</a>	21.983	23.0	-1.017

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

		Test Measurement Results						
Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
	Port(s) (dBm/MHz)							
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dBm/MHz	dB
5985.0	<a href="#">-12.758</a>	<a href="#">-12.755</a>	--	--	<a href="#">-10.255</a>	17.745	23.0	-5.255
6175.0	<a href="#">-11.956</a>	<a href="#">-10.878</a>	--	--	<a href="#">-8.656</a>	19.344	23.0	-3.656
6385.0	<a href="#">-11.767</a>	<a href="#">-11.559</a>	--	--	<a href="#">-8.620</a>	19.380	23.0	-3.620

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
MHz	a	b	c	d				
6025.0	-14.615	-14.798	--	--	-12.056	15.944	23.0	-7.056
6175.0	-16.915	-15.454	--	--	-13.198	14.802	23.0	-8.198
6345.0	-15.424	-15.105	--	--	-12.378	15.622	23.0	-7.378

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	20 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
	Port(s) (dBm/MHz)							
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dBm/MHz	dB
6535.0	-7.767	-7.944	--	--	-5.052	22.948	23.0	-0.052
6700.0	-6.942	-7.219	--	--	-5.020	22.980	23.0	-0.02
6865.0	-7.543	-7.559	--	--	-5.158	22.842	23.0	-0.158

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	40 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	17.20 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
MHz	a	b	c	d				
6545.0	-10.036	-10.269	--	--	-7.297	20.703	23.0	-2.297
6700.0	-10.336	-10.042	--	--	-7.537	20.463	23.0	-2.537
6855.0	-10.510	-9.657	--	--	-7.563	20.437	23.0	-2.563

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	80 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	36.00 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
	Port(s) (dBm/MHz)							
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dBm/MHz	dB
6565.0	-12.634	-13.270	--	--	-10.361	17.639	23.0	-5.361
6700.0	-12.421	-12.629	--	--	-9.683	18.317	23.0	-4.683
6835.0	-12.838	-12.294	--	--	-10.021	17.979	23.0	-5.021

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Power Spectral Density**

<b>Variant:</b>	160 MHz	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	72.10 MBit/s	<b>Antenna Gain (dBi):</b>	28.00
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Frequency	Test Measurement Results							
	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Total EIRP	Limit	Margin
	Port(s) (dBm/MHz)							
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dBm/MHz	dB
6605.0	<a href="#">-16.220</a>	<a href="#">-16.668</a>	--	--	<a href="#">-13.715</a>	14.285	23.0	-8.715
6700.0	<a href="#">-15.652</a>	<a href="#">-15.777</a>	--	--	<a href="#">-12.971</a>	15.029	23.0	-7.971
6795.0	<a href="#">-16.008</a>	<a href="#">-15.662</a>	--	--	<a href="#">-13.069</a>	14.931	23.0	-8.069

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

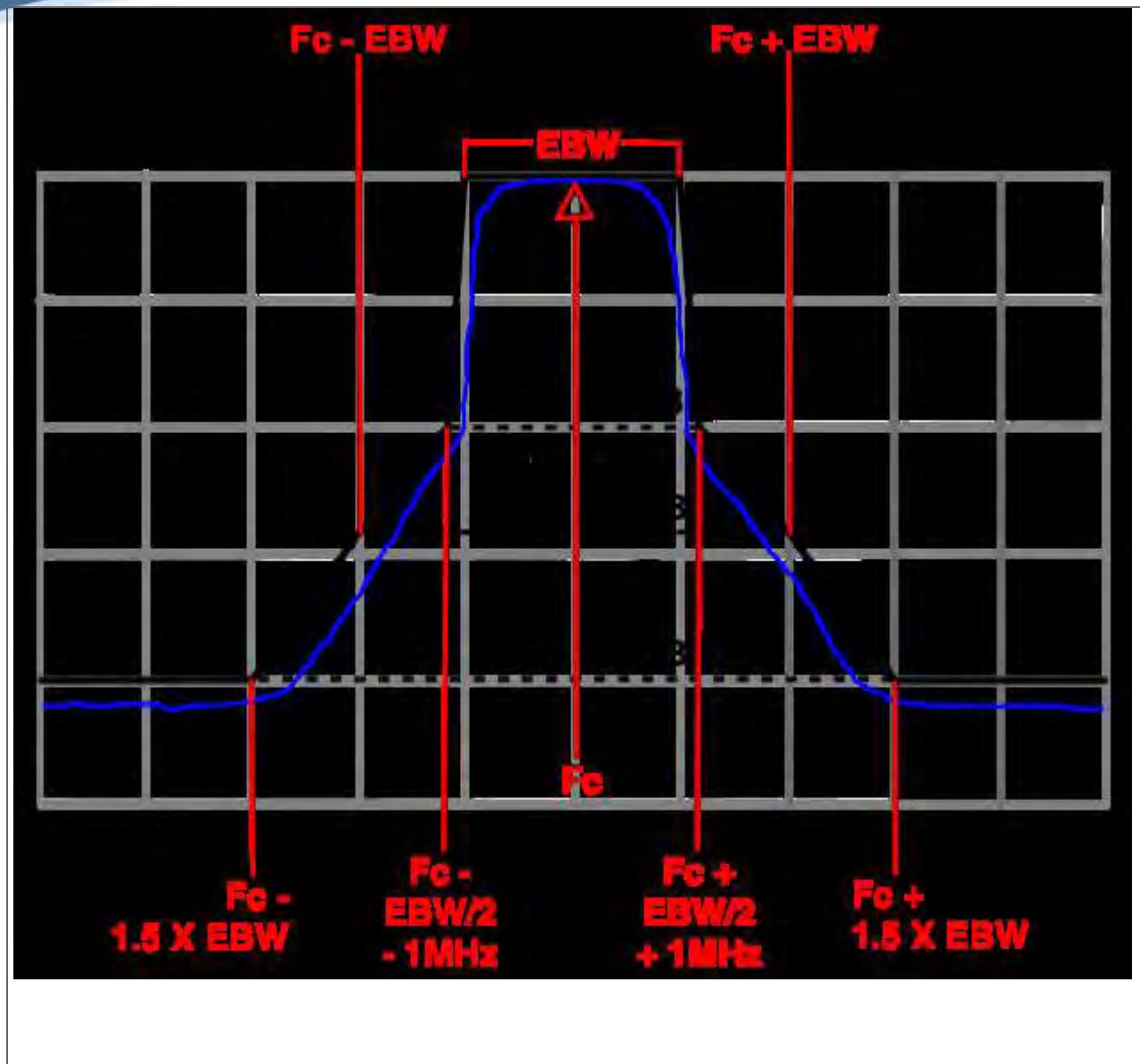
Note: click the links in the above matrix to view the graphical image (plot).

## 9.4. In-Band Spectrum Emission Mask

Conducted Test Conditions for Spectrum Emission Mask			
<b>Standard:</b>	15.407	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	Spectrum Emission Mask	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.407(7)	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	KDB 987594 D02 (J)		

### Test Procedure for Emission Masks

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
  - a) Set the span to encompass the entire 26 dB EBW of the signal.
  - b) Set RBW = same RBW used for 26 dB EBW measurement.
  - c) Set VBW  $\geq$  3 X RBW
  - d) Number of points in sweep  $\geq$  [2 X span / RBW].
  - e) Sweep time = auto.
  - f) Detector = RMS (i.e., power averaging)
  - g) Trace average at least 100 traces in power averaging (rms) mode.
  - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW or 99% of the occupied bandwidth.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
  - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
  - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
  - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.



#### 9.4.1. Frequency Band 5925.00-6425.00

Equipment Configuration for Spectrum Emission Mask			
<b>Variant:</b>	20MHz	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.0
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results					
Test Frequency	Measured Spectrum Mask				Complies
	Port(s)				
MHz	a	b	c	d	Pass/Fail
5945.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6175.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6415.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

Traceability to Industry Recognized Test Methodologies					
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK				
Measurement Uncertainty:	±2.81 dB				

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Spectrum Emission Mask					
<b>Variant:</b>	40MHz		<b>Duty Cycle (%):</b>	99	
<b>Data Rate:</b>	17.20 MBit/s		<b>Antenna Gain (dBi):</b>	28.0	
<b>Modulation:</b>	OFDM		<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable	
<b>TPC:</b>	Not Applicable		<b>Tested By:</b>	SB	
<b>Engineering Test Notes:</b>					

Test Measurement Results					
Test Frequency	Measured Spectrum Mask				Complies
	Port(s)				
MHz	a	b	c	d	Pass/Fail
5960.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6175.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6405.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

Traceability to Industry Recognized Test Methodologies					
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK				
Measurement Uncertainty:	±2.81 dB				

Note: click the links in the above matrix to view the graphical image (plot).

#### Equipment Configuration for Spectrum Emission Mask

<b>Variant:</b>	80MHz	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	36 MBit/s	<b>Antenna Gain (dBi):</b>	28.0
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Spectrum Mask				Complies
	Port(s)				
MHz	a	b	c	d	Pass/Fail
5985.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6175.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6385.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

#### Equipment Configuration for Spectrum Emission Mask

<b>Variant:</b>	160MHz	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	72.1 MBit/s	<b>Antenna Gain (dBi):</b>	28.0
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Spectrum Mask				Complies
	Port(s)				
MHz	a	b	c	d	Pass/Fail
6025.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6175.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6345.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

#### 9.4.2. Frequency Band 6525.00-6875.00

Equipment Configuration for Spectrum Emission Mask			
<b>Variant:</b>	20MHz	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	8.60 MBit/s	<b>Antenna Gain (dBi):</b>	28.0
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

Test Measurement Results					
Test Frequency	Measured Spectrum Mask				Complies
	Port(s)				
MHz	a	b	c	d	Pass/Fail
6535.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6700.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6865.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

Traceability to Industry Recognized Test Methodologies					
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK				
Measurement Uncertainty:	±2.81 dB				

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Spectrum Emission Mask					
<b>Variant:</b>	40MHz		<b>Duty Cycle (%):</b>	99	
<b>Data Rate:</b>	17.20 MBit/s		<b>Antenna Gain (dBi):</b>	28.0	
<b>Modulation:</b>	OFDM		<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable	
<b>TPC:</b>	Not Applicable		<b>Tested By:</b>	SB	
<b>Engineering Test Notes:</b>					

Test Measurement Results					
Test Frequency	Measured Spectrum Mask				Complies
	Port(s)				
MHz	a	b	c	d	Pass/Fail
6545.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6700.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6855.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

Traceability to Industry Recognized Test Methodologies					
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK				
Measurement Uncertainty:	±2.81 dB				

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Spectrum Emission Mask**

<b>Variant:</b>	80MHz	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	36 MBit/s	<b>Antenna Gain (dBi):</b>	28.0
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Spectrum Mask</b>				<b>Complies</b>
	<b>Port(s)</b>				
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>Pass/Fail</b>
6565.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6700.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6835.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

**Equipment Configuration for Spectrum Emission Mask**

<b>Variant:</b>	160MHz	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	72.1 MBit/s	<b>Antenna Gain (dBi):</b>	28.0
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Spectrum Mask</b>				<b>Complies</b>
	<b>Port(s)</b>				
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>Pass/Fail</b>
6605.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6700.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass
6795.0	<a href="#">Mask</a>	<a href="#">Mask</a>	--	--	Pass

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

## 9.5. Radiated

Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions			
<b>Standard:</b>	FCC CFR 47:15.407	<b>Ambient Temp. (°C):</b>	20.0 - 24.5
<b>Test Heading:</b>	Radiated Spurious and Band-Edge Emissions	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.407 (b), 15.205, 15.209	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

### Test Procedure for Radiated Spurious and Band-Edge Emissions

Radiated emissions for restricted bands above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned.

Measurements on any restricted band frequency or frequencies above 1 GHz are based on the use of measurement instrumentation employing peak and average detectors. All measurements were performed using a resolution bandwidth of 1 MHz.

Test configuration and setup for Undesirable Measurement were per the Radiated Test Set-up specified in this document. 15.407 (b) Undesirable emission limits. Except as shown in paragraph (b)(10) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(6) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

(10) The provisions of §15.205 apply to intentional radiators operating under this section.

### Limits for Restricted Bands (15.205, 15.209)

Peak emission: 74 dB<sub>u</sub>V/m

Average emission: 54 dB<sub>u</sub>V/m

### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

FS = R + AF + CORR - FO

where:

FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL - AG + NFL

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss

### Example:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength (dB<sub>u</sub>V/m);

$$E = \frac{1000000 \times \sqrt{30P}}{3} \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz equates to 68.23 dB<sub>u</sub>V/m

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are as follows:

Level (dBmV/m) = 20 \* Log (level (mV/m))

40 dBmV/m = 100 mV/m  
 48 dBmV/m = 250 mV/m

**Restricted Bands of Operation (15.205)**

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Frequency Band			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

No emissions were observed in the frequency range of 18GHz to 40GHz.

### 9.5.1. TX Spurious & Restricted Band Emissions

#### 9.5.1.1. RADWIN RW-9628-5872

##### 9.5.1.1.1. Spurious Emissions 5925-6425MHz

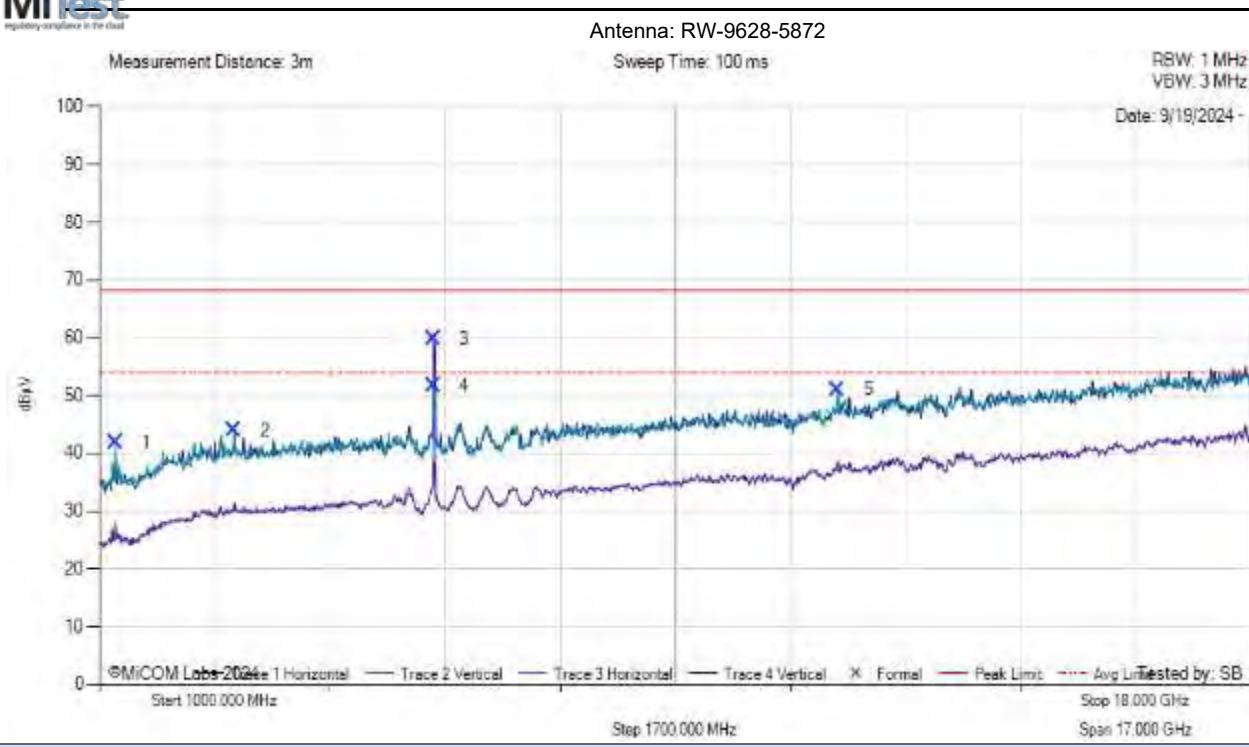
###### Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	5945	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	9.5	<b>Tested By:</b>	SB

###### Test Measurement Results



###### FCC Spurious 1 GHz -18 GHz



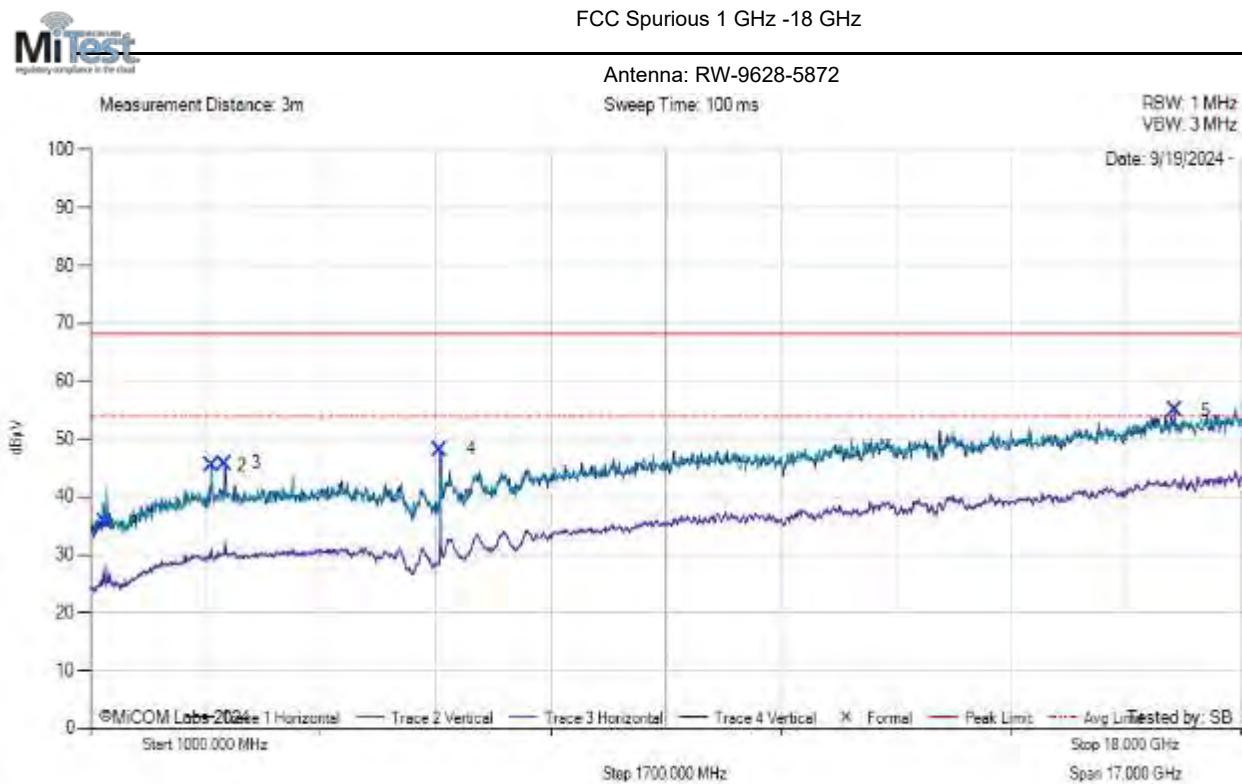
1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	1238.00	56.64	1.43	29.07	41.81	MaxP	Vertical	100	0	68.2	-26.4	Pass	
2	2989.00	53.09	2.20	32.94	43.92	MaxP	Vertical	100	0	68.2	-24.3	Pass	
3	5930.00	66.82	3.34	35.11	59.86	MaxP	Horizontal	149	120	68.2	-8.4	Pass	
4	5930.00	58.67	3.34	35.11	51.70	MaxP	Vertical	149	59	68.2	-16.5	Pass	
5	11897.00	52.26	4.99	38.79	51.11	MaxP	Vertical	149	300	68.2	-17.1	Pass	

**Test Notes:** 120VAC POE, 5945MHz, RW-9628-5872 Antenna, 20MHz BW, PS 9.5

Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6175	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

Test Measurement Results



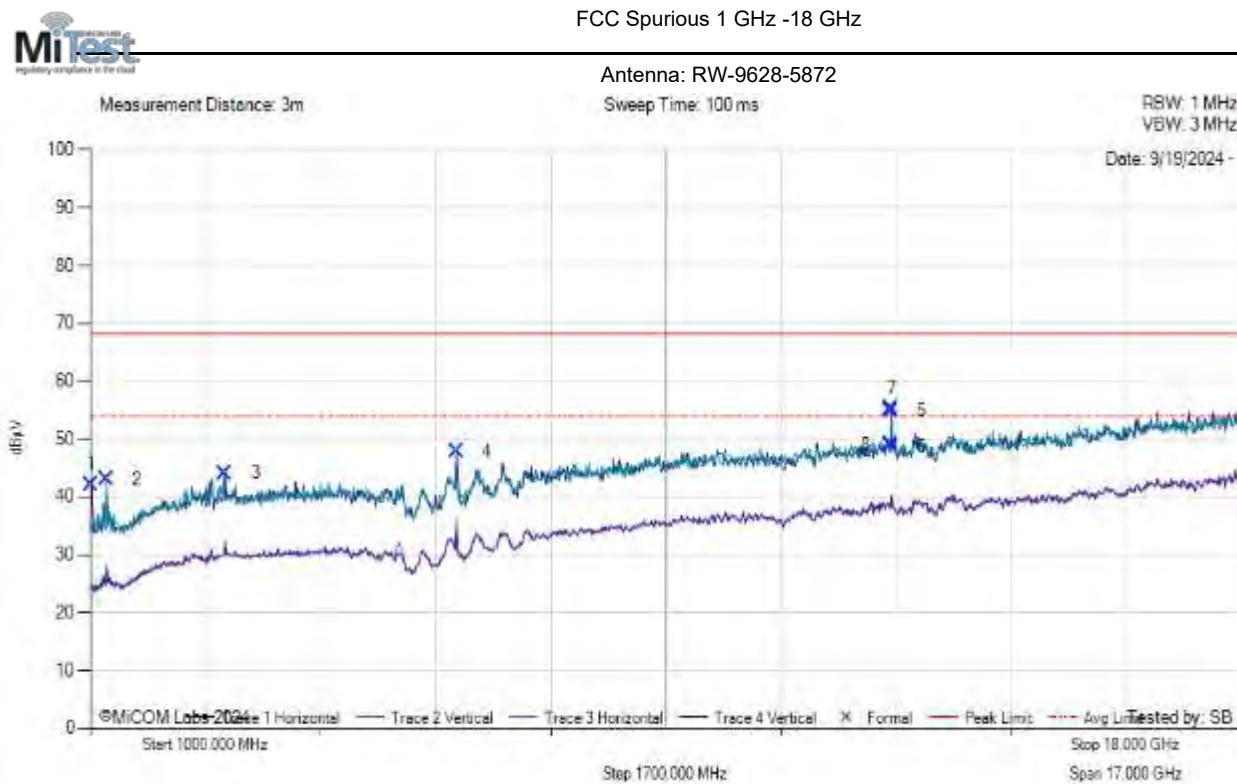
1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1221.00	50.63	1.41	28.93	35.56	MaxP	Vertical	100	179	68.2	-32.7	Pass
2	2785.00	55.03	2.12	32.48	45.38	MaxP	Vertical	100	0	68.2	-22.9	Pass
3	2989.00	54.94	2.20	32.94	45.76	MaxP	Horizontal	100	240	68.2	-22.5	Pass
4	6168.00	54.11	3.27	35.47	48.14	MaxP	Horizontal	149	120	68.2	-20.1	Pass
5	17014.00	48.95	6.53	41.54	55.00	MaxP	Vertical	149	0	68.2	-13.2	Pass

**Test Notes:** 120VAC POE, 6175MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6415	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	6.0	<b>Tested By:</b>	SB

Test Measurement Results



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1017.00	58.27	1.30	27.84	42.10	MaxP	Horizontal	149	300	68.2	-26.1	Pass
2	1238.00	57.87	1.43	29.07	43.04	MaxP	Vertical	149	0	68.2	-25.2	Pass
3	2989.00	53.32	2.20	32.94	44.15	MaxP	Vertical	100	0	68.2	-24.1	Pass
4	6406.00	53.42	3.36	35.59	47.84	MaxP	Horizontal	149	120	68.2	-20.4	Pass
5	12829.84	58.22	5.17	-8.46	54.92	MaxP	Vertical	127	313	68.2	-13.3	Pass
6	12829.84	52.01	5.17	-8.46	48.72	AVG	Vertical	127	313	54.0	-5.3	Pass
7	12829.87	58.49	5.17	-8.46	55.19	MaxP	Horizontal	99	312	68.2	-13.0	Pass
8	12829.87	52.40	5.17	-8.46	49.10	AVG	Horizontal	99	312	54.0	-4.9	Pass

**Test Notes:** 120VAC POE, 6415MHz, RW-9628-5872 Antenna, 20MHz BW, PS 6.0

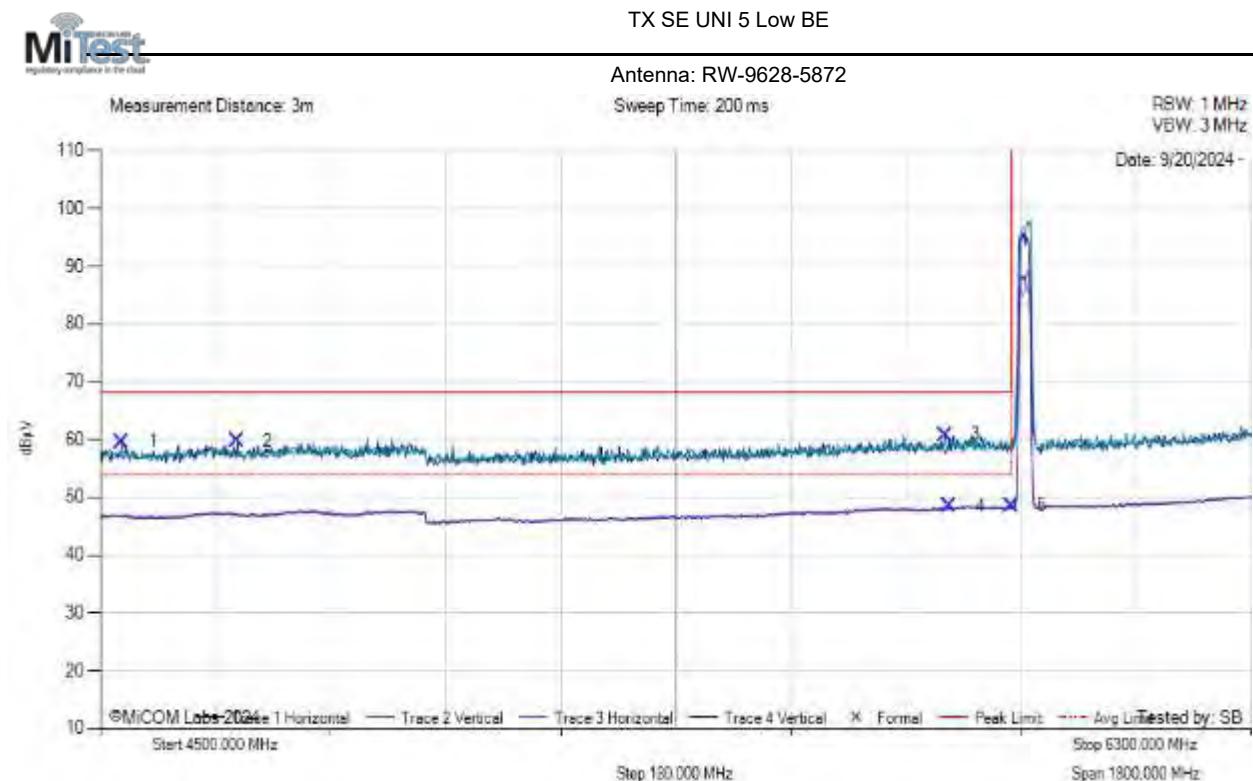
### 9.5.1.1.2. Band Edge 5925-7125 MHz

#### 9.5.1.1.2.1. 20MHz

##### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5945 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	9.5	<b>Tested By:</b>	SB

##### Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4534.20	32.90	2.80	33.94	59.64	MaxP	Vertical	99	29	68.2	-8.6	Pass	
2	4714.20	32.89	2.80	34.03	59.71	MaxP	Horizontal	99	120	68.2	-8.5	Pass	
3	5821.20	32.66	3.23	34.89	60.79	MaxP	Vertical	99	119	68.2	-7.4	Pass	
4	5828.40	20.34	3.23	34.91	48.48	AVG	Vertical	100	0	54.0	-5.5	Pass	
5	5923.80	20.23	3.25	35.09	48.57	AVG	Horizontal	149	90	54.0	-5.4	Pass	

**Test Notes:** 120VAC POE, 5945 MHz, RW-9628-5872 Antenna, 20MHz BW, PS 9.5

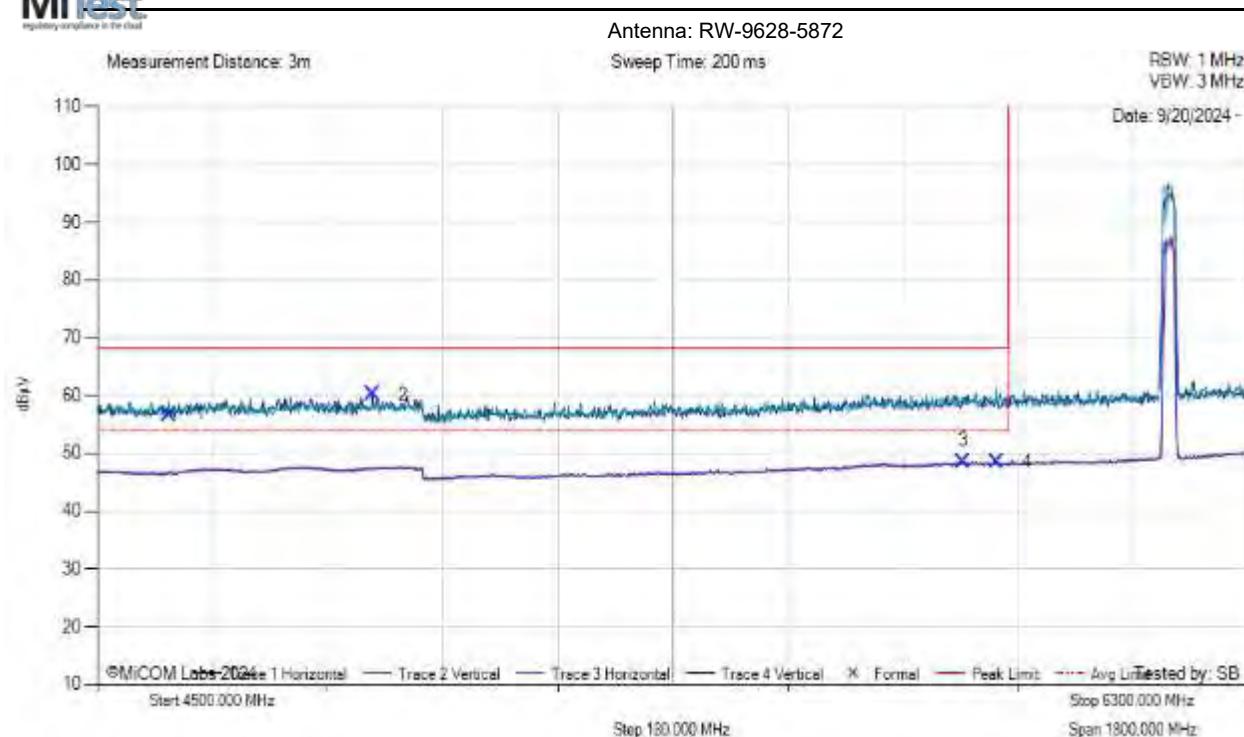
**Equipment Configuration for TX SE UNI 5 LOW BE**

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

**Test Measurement Results**



TX SE UNI 5 Low BE



**4500.00 - 6300.00 MHz**

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4613.40	29.99	2.78	33.99	56.77	MaxP	Vertical	99	119	68.2	-11.5	Pass
2	4930.20	33.34	2.91	34.01	60.26	MaxP	Horizontal	199	120	68.2	-8.0	Pass
3	5853.60	20.33	3.29	34.96	48.58	AVG	Vertical	99	119	54.0	-5.4	Pass
4	5905.80	20.29	3.19	35.06	48.54	AVG	Horizontal	99	30	54.0	-5.5	Pass

**Test Notes:** 120VAC POE, 6175 MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

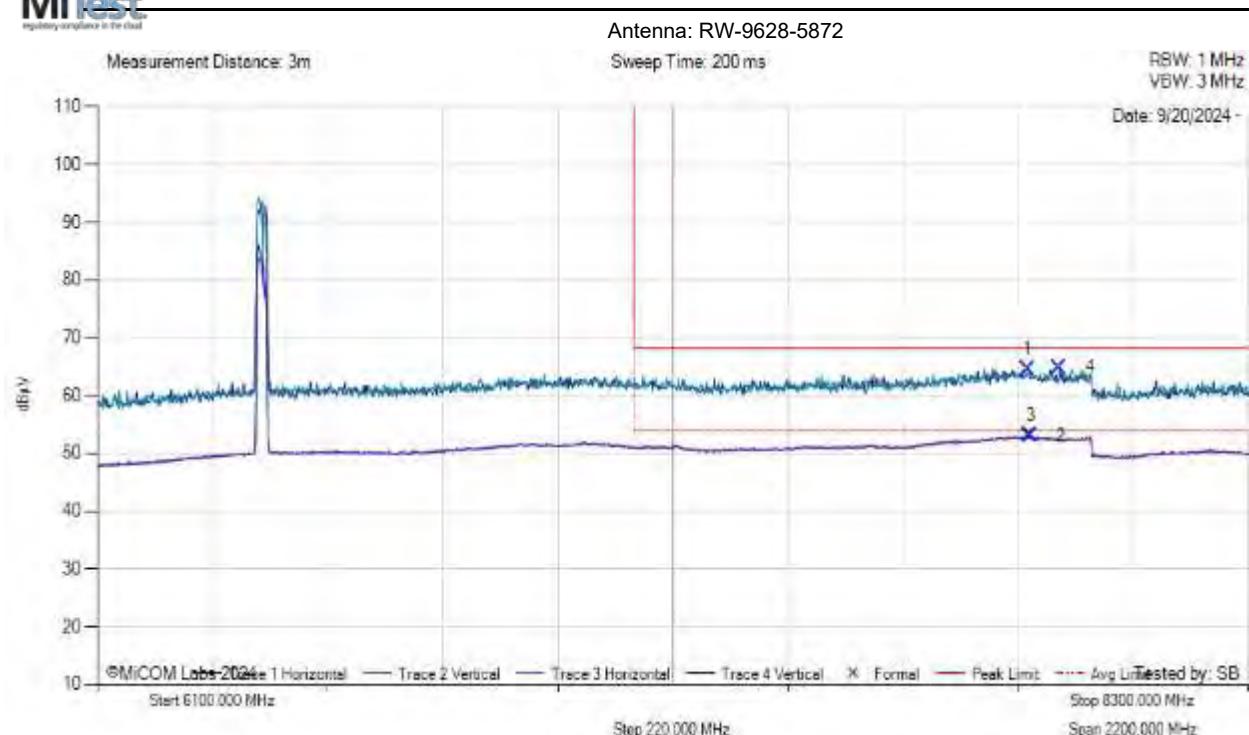
**Equipment Configuration for TX SE UNI 5 HIGH BE**

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6415 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	6.0	<b>Tested By:</b>	SB

**Test Measurement Results**



TX SE UNI 5 High BE



**6100.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7877.60	34.76	3.93	35.88	64.56	MaxP	Vertical	199	0	68.2	-3.7	Pass
2	7882.00	23.23	3.89	35.88	53.00	AVG	Horizontal	199	150	54.0	-1.0	Pass
3	7884.20	23.21	3.87	35.88	52.97	AVG	Vertical	149	29	54.0	-1.0	Pass
4	7939.20	35.31	3.71	35.87	64.89	MaxP	Vertical	100	119	68.2	-3.3	Pass

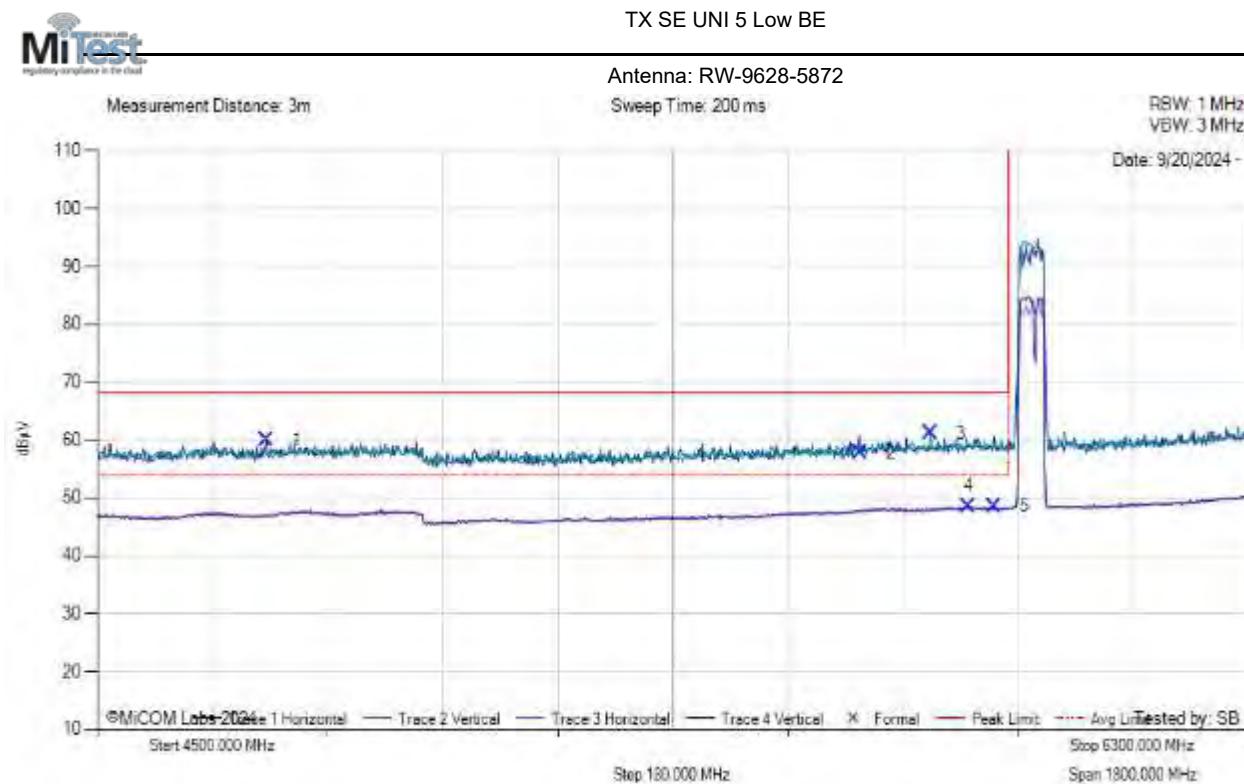
**Test Notes:** 120VAC POE, 6415 MHz, RW-9628-5872 Antenna, 20MHz BW, PS 6.0

### 9.5.1.1.2.2. 40MHz

#### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5960 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

#### Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail	
1	4764.60	33.07	2.86	34.01	59.95	MaxP	Horizontal	149	60	68.2	-8.3	Pass	
2	5693.40	30.04	3.20	34.65	57.89	MaxP	Horizontal	149	0	68.2	-10.3	Pass	
3	5803.20	32.99	3.27	34.85	61.12	MaxP	Vertical	149	119	68.2	-7.1	Pass	
4	5862.60	20.23	3.29	34.98	48.49	AVG	Vertical	149	0	54.0	-5.5	Pass	
5	5902.20	20.35	3.21	35.05	48.61	AVG	Horizontal	199	90	54.0	-5.4	Pass	

**Test Notes:** 120VAC POE, 5960 MHz, RW-9628-5872 Antenna, 40MHz BW, PS 5.5

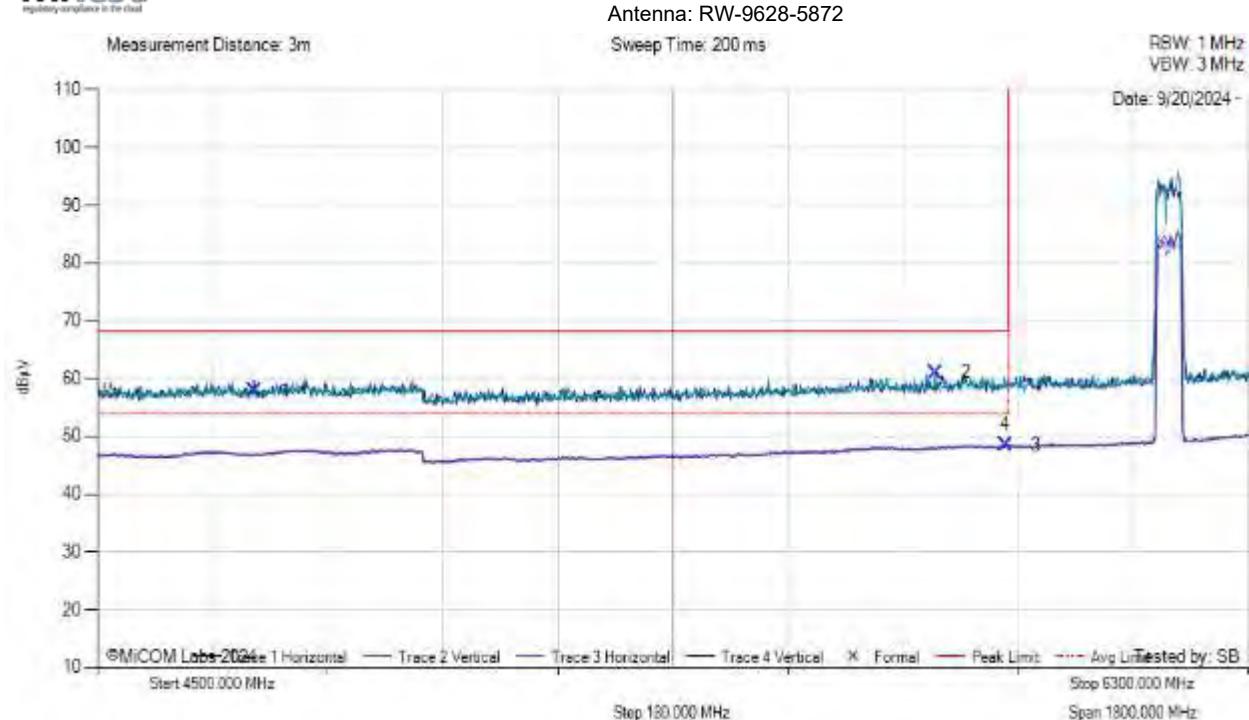
Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Low BE



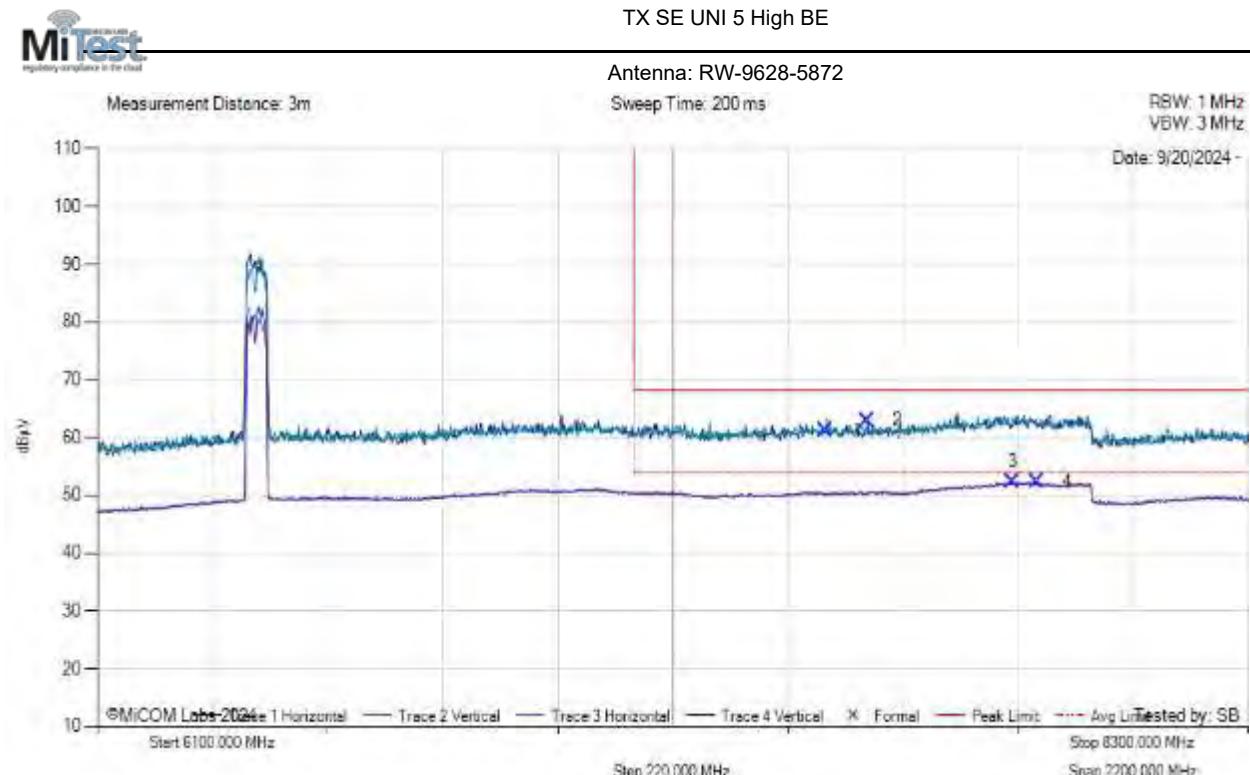
4500.00 - 6300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4746.60	30.87	2.86	34.02	57.75	MaxP	Horizontal	149	90	68.2	-10.5	Pass
2	5810.40	32.97	3.20	34.87	61.05	MaxP	Vertical	100	0	68.2	-7.2	Pass
3	5920.20	20.21	3.21	35.09	48.51	AVG	Vertical	199	119	54.0	-5.5	Pass
4	5920.20	20.20	3.21	35.09	48.49	AVG	Horizontal	149	60	54.0	-5.5	Pass

Test Notes: 120VAC POE, 6175 MHz, RW-9628-5872 Antenna, 40MHz BW, PS 5.5

## Equipment Configuration for TX SE UNI 5 HIGH BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6405 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	6.0	<b>Tested By:</b>	SB

## Test Measurement Results



6100.00 - 8300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	7492.60	31.73	3.67	35.85	61.25	MaxP	Vertical	100	90	68.2	-7.0	Pass	
2	7571.80	33.27	3.87	35.85	62.99	MaxP	Horizontal	149	30	68.2	-5.2	Pass	
3	7849.00	22.59	3.90	35.88	52.37	AVG	Vertical	199	0	54.0	-1.6	Pass	
4	7895.20	22.53	3.91	35.88	52.32	AVG	Horizontal	100	-1	54.0	-1.7	Pass	

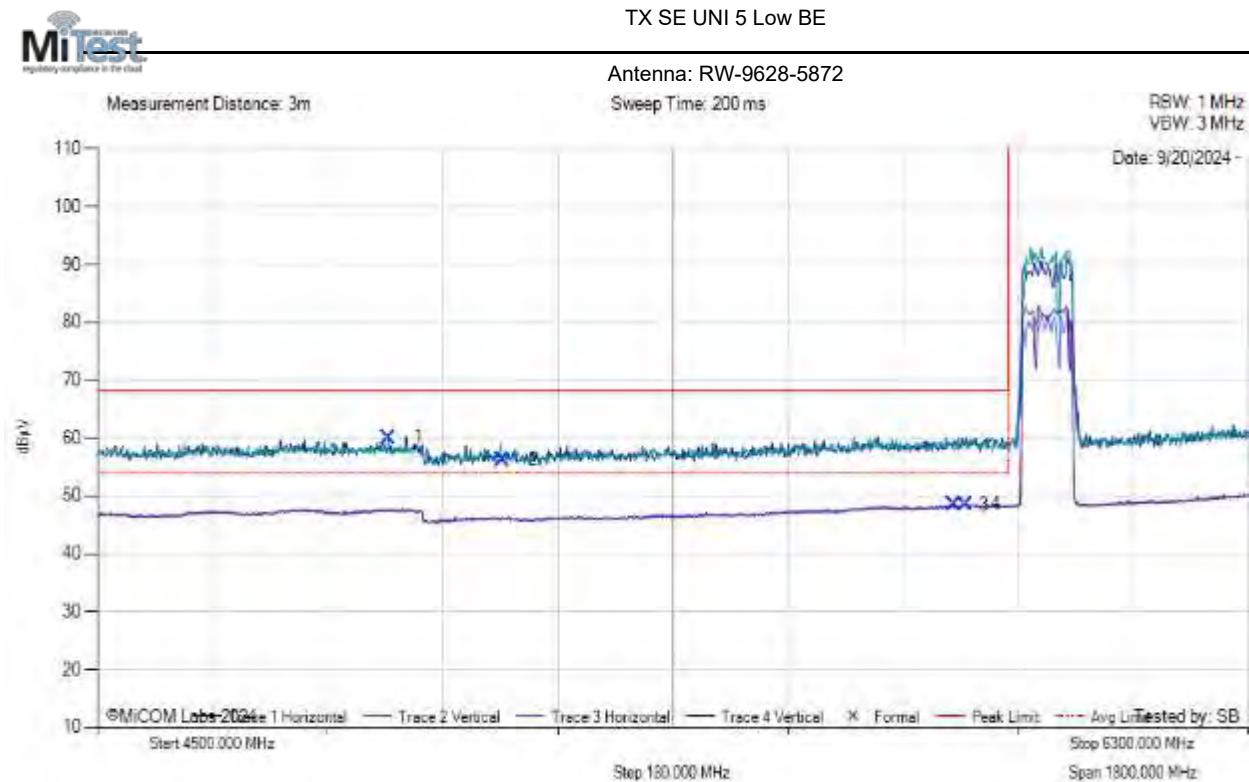
**Test Notes:** 120VAC POE, 6405 MHz, RW-9628-5872 Antenna, 40MHz BW, PS 6.0

### 9.5.1.1.2.3. 80MHz

#### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5985 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	6.0	<b>Tested By:</b>	SB

#### Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4955.40	33.21	2.89	34.01	60.11	MaxP	Vertical	100	59	68.2	-8.1	Pass	
2	5133.60	29.05	3.08	34.12	56.25	MaxP	Vertical	100	90	68.2	-12.0	Pass	
3	5839.20	20.41	3.22	34.92	48.55	AVG	Horizontal	100	-1	54.0	-5.4	Pass	
4	5857.20	20.33	3.31	34.97	48.61	AVG	Vertical	149	90	54.0	-5.4	Pass	

**Test Notes:** 120VAC POE, 5985 MHz, RW-9628-5872 Antenna, 80MHz BW, PS 6.0

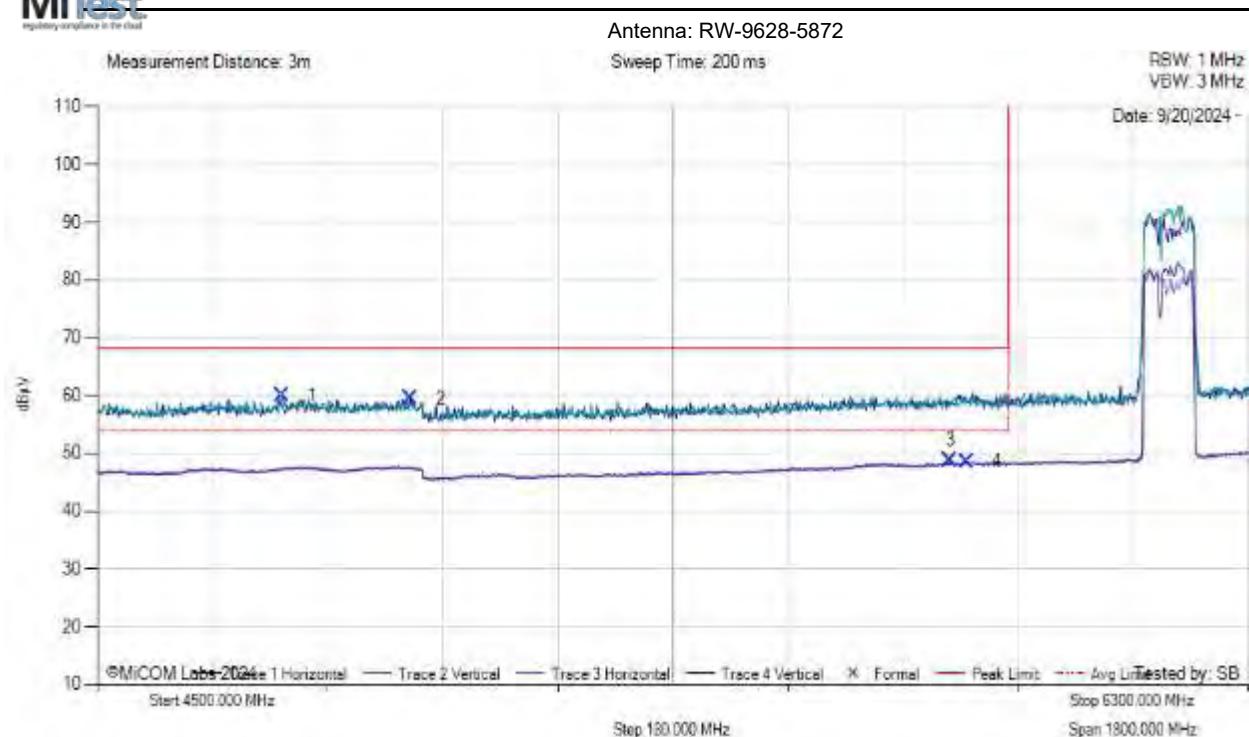
Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	6.0	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Low BE



4500.00 - 6300.00 MHz

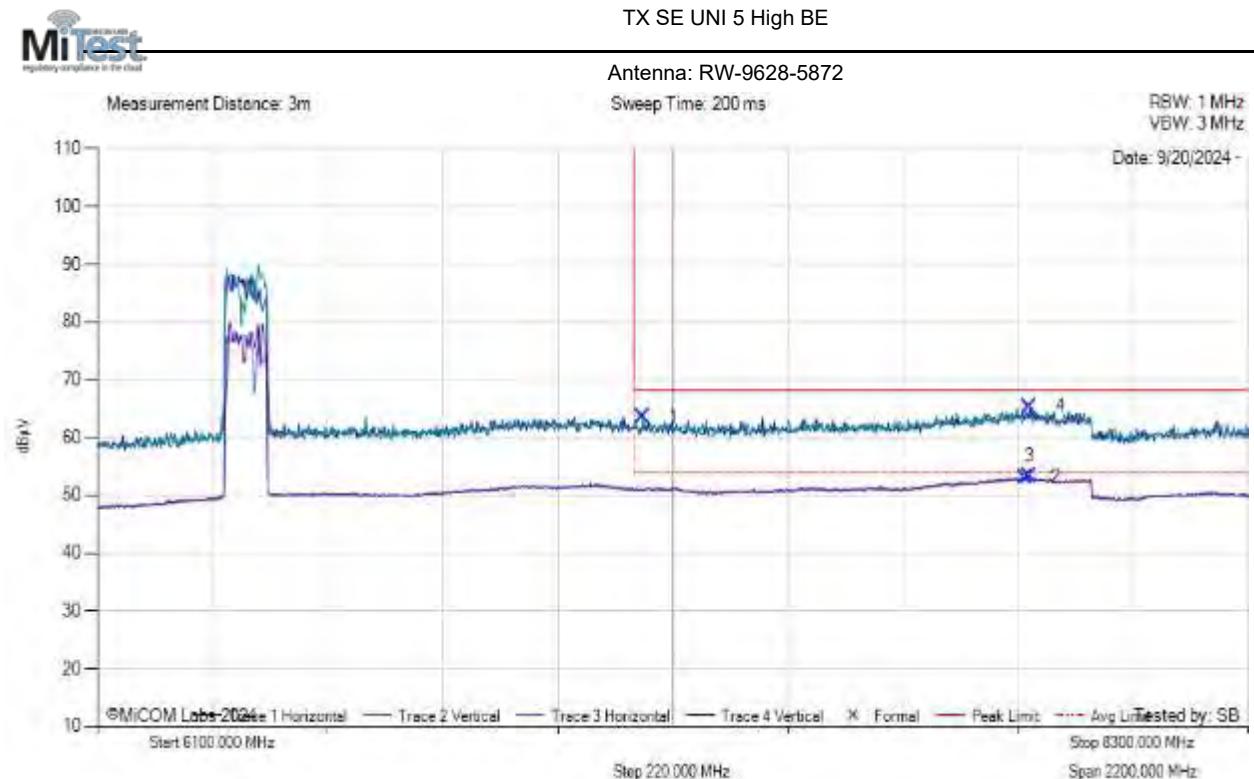
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4788.00	33.05	2.97	34.01	60.03	MaxP	Vertical	99	119	68.2	-8.2	Pass
2	4989.60	32.33	3.10	34.02	59.45	MaxP	Horizontal	99	30	68.2	-8.8	Pass
3	5833.80	20.52	3.22	34.92	48.66	AVG	Horizontal	199	90	54.0	-5.3	Pass
4	5859.00	20.33	3.30	34.97	48.60	AVG	Vertical	199	29	54.0	-5.4	Pass

Test Notes: 120VAC POE, 6175 MHz, RW-9628-5872 Antenna, 80MHz BW, PS 6.0

Equipment Configuration for TX SE UNI 5 HIGH BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6385 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	6.0	<b>Tested By:</b>	SB

Test Measurement Results



6100.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7142.80	34.02	3.59	35.94	63.55	MaxP	Vertical	149	119	68.2	-4.7	Pass
2	7873.20	23.33	3.91	35.88	53.11	AVG	Vertical	199	0	54.0	-0.9	Pass
3	7882.00	23.50	3.89	35.88	53.27	AVG	Horizontal	100	-1	54.0	-0.7	Pass
4	7882.00	35.58	3.89	35.88	65.35	MaxP	Horizontal	100	60	68.2	-2.9	Pass

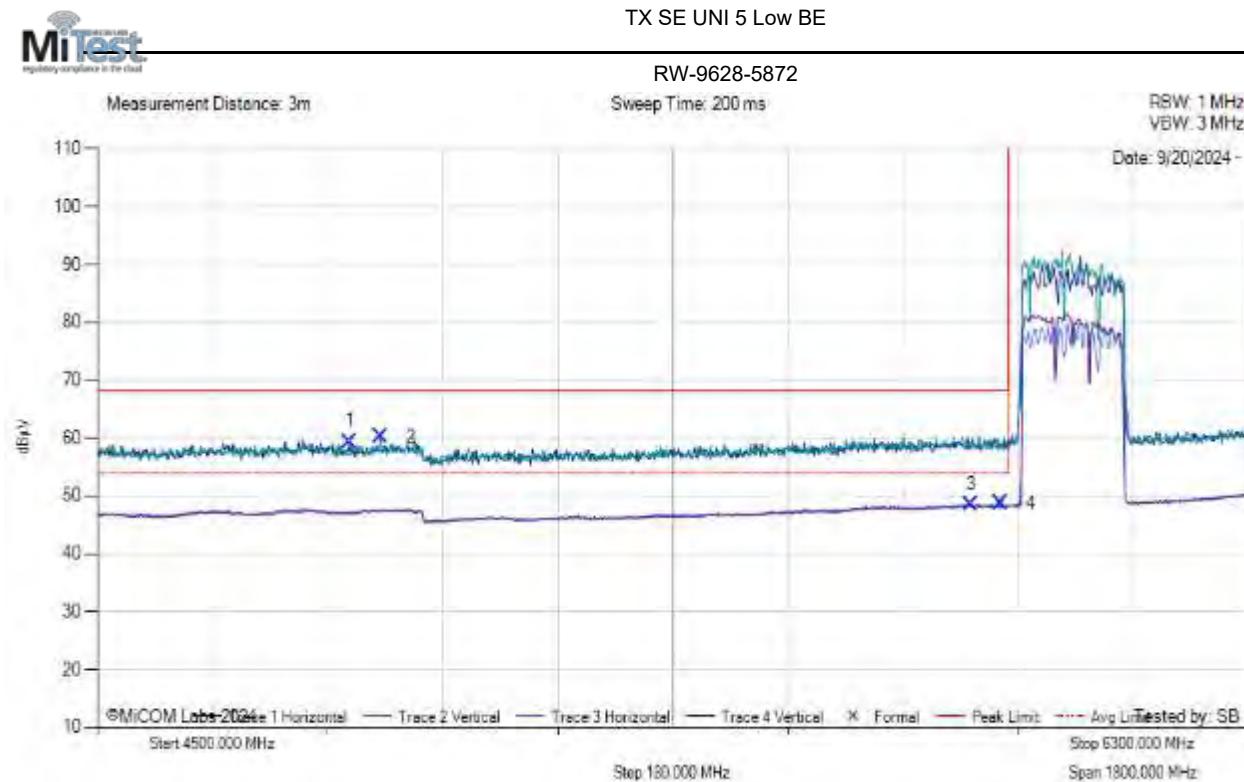
Test Notes: 120VAC POE, 6385 MHz, RW-9628-5872 Antenna, 80MHz BW, PS 6.0

#### 9.5.1.1.2.4. 160MHz

##### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6025 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	7.5	<b>Tested By:</b>	SB

##### Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4894.20	32.49	2.89	34.01	59.39	MaxP	Horizontal	100	30	68.2	-8.8	Pass	
2	4942.80	33.30	2.89	34.01	60.20	MaxP	Vertical	199	29	68.2	-8.0	Pass	
3	5866.20	20.30	3.28	34.98	48.56	AVG	Horizontal	100	-1	54.0	-5.4	Pass	
4	5913.00	20.43	3.19	35.07	48.69	AVG	Vertical	100	0	54.0	-5.3	Pass	

**Test Notes:** 120VAC POE, 6025 MHz, RW-9628-5872 Antenna, 160MHz BW, PS 7.5

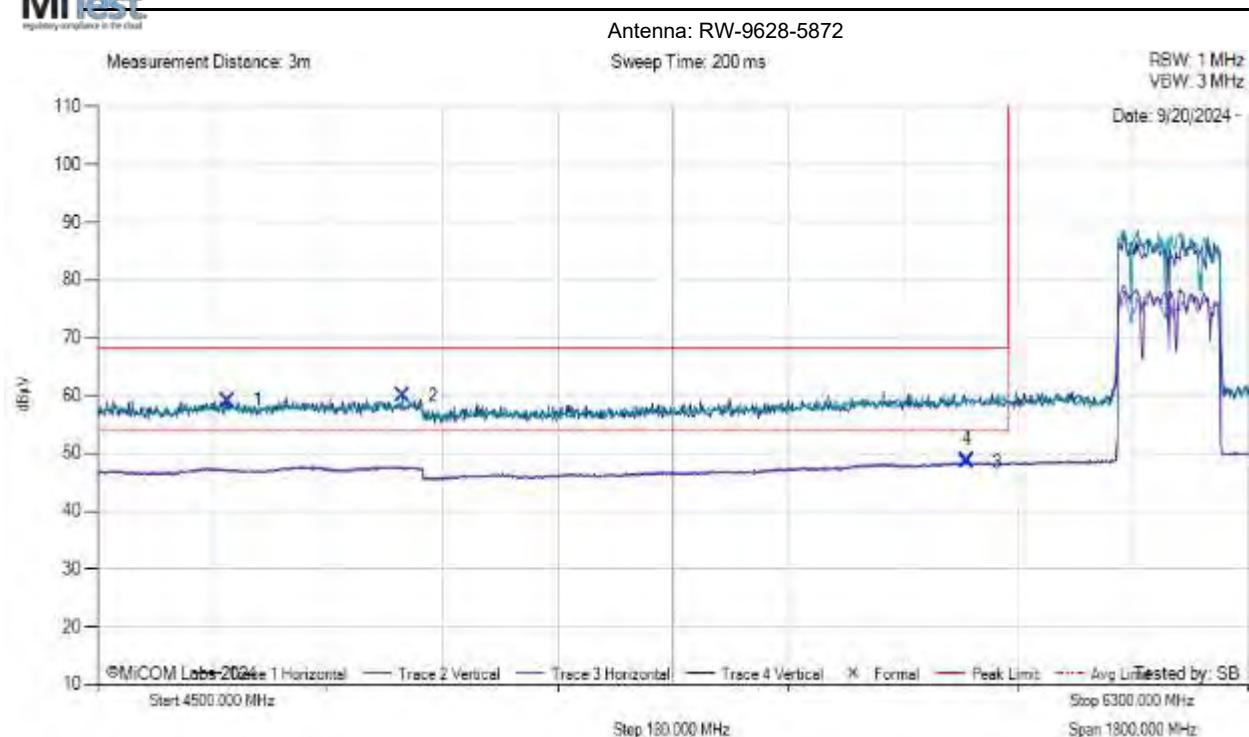
Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	4.5	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Low BE



4500.00 - 6300.00 MHz

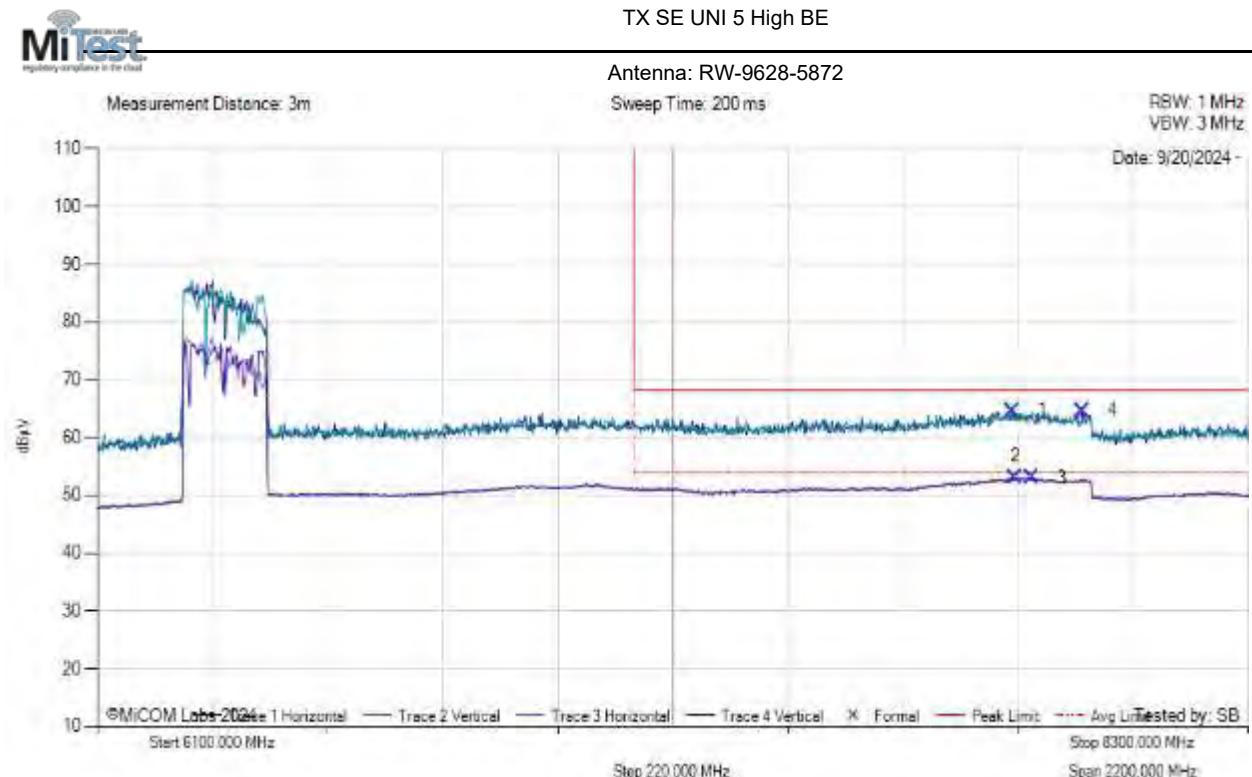
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4703.40	32.32	2.81	34.03	59.16	MaxP	Horizontal	100	120	68.2	-9.1	Pass
2	4977.00	33.03	2.94	34.02	59.98	MaxP	Vertical	149	150	68.2	-8.2	Pass
3	5859.00	20.20	3.30	34.97	48.47	AVG	Horizontal	199	150	54.0	-5.5	Pass
4	5860.80	20.55	3.29	34.98	48.82	AVG	Vertical	199	119	54.0	-5.2	Pass

Test Notes: 120VAC POE, 6175 MHz, RW-9628-5872 Antenna, 160MHz BW, PS 4.5

Equipment Configuration for TX SE UNI 5 HIGH BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6345 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	4.5	<b>Tested By:</b>	SB

Test Measurement Results



6100.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7849.00	34.87	3.90	35.88	64.65	MaxP	Vertical	100	0	68.2	-3.6	Pass
2	7853.40	23.32	3.93	35.88	53.14	AVG	Vertical	199	150	54.0	-0.9	Pass
3	7886.40	23.28	3.86	35.88	53.02	AVG	Horizontal	199	0	54.0	-1.0	Pass
4	7983.20	34.88	3.93	35.86	64.66	MaxP	Horizontal	199	90	68.2	-3.6	Pass

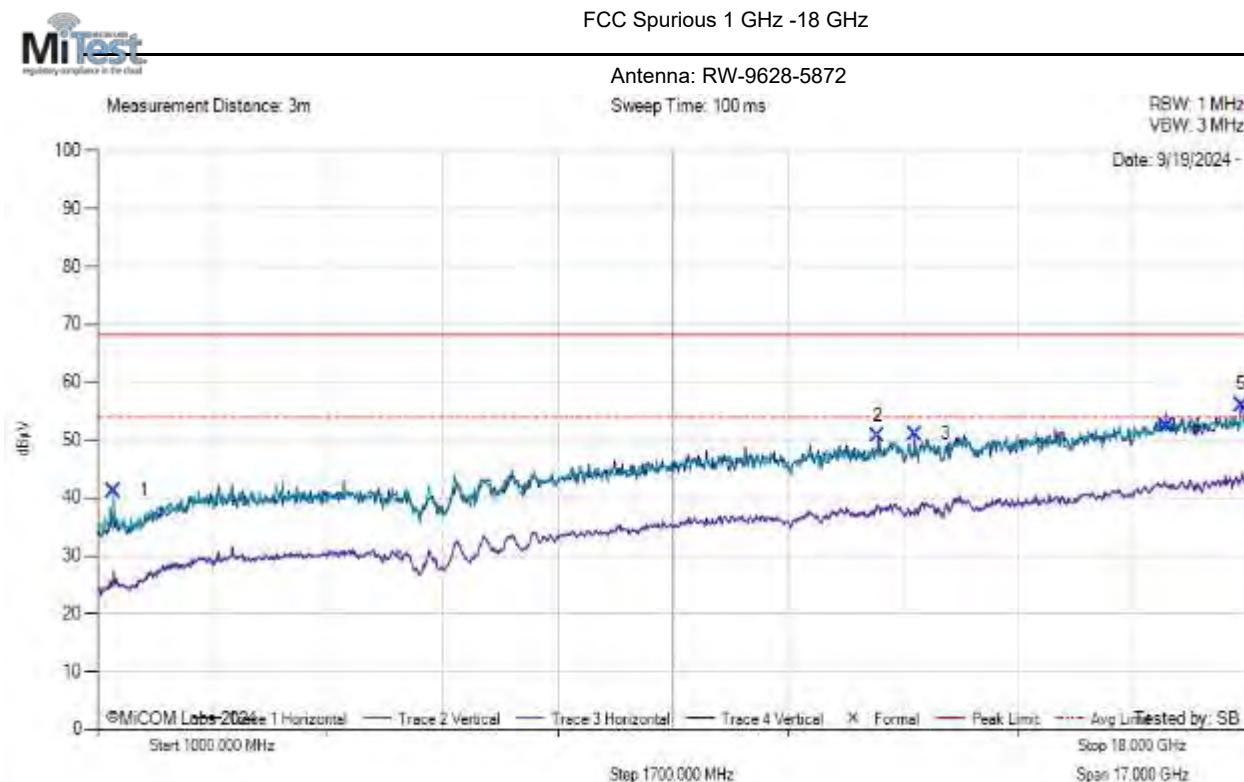
Test Notes: 120VAC POE, 6345 MHz, RW-9628-5872 Antenna, 160MHz BW, PS 4.5

### 9.5.1.1.3. Spurious Emissions 6525-6875MHz

#### Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6535	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

#### Test Measurement Results



1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	1238.00	56.05	1.43	29.07	41.22	MaxP	Vertical	100	0	68.2	-27.0	Pass	
2	12526.00	51.57	5.47	38.93	50.66	MaxP	Vertical	149	0	68.2	-17.6	Pass	
3	13070.00	53.35	4.78	38.99	51.02	MaxP	Horizontal	100	240	68.2	-17.2	Pass	
4	16793.00	46.90	6.11	41.71	52.49	MaxP	Vertical	149	0	68.2	-15.7	Pass	
5	17898.00	48.91	6.28	41.57	56.09	MaxP	Horizontal	100	120	68.2	-12.1	Pass	

**Test Notes:** 120VAC POE, 6535MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

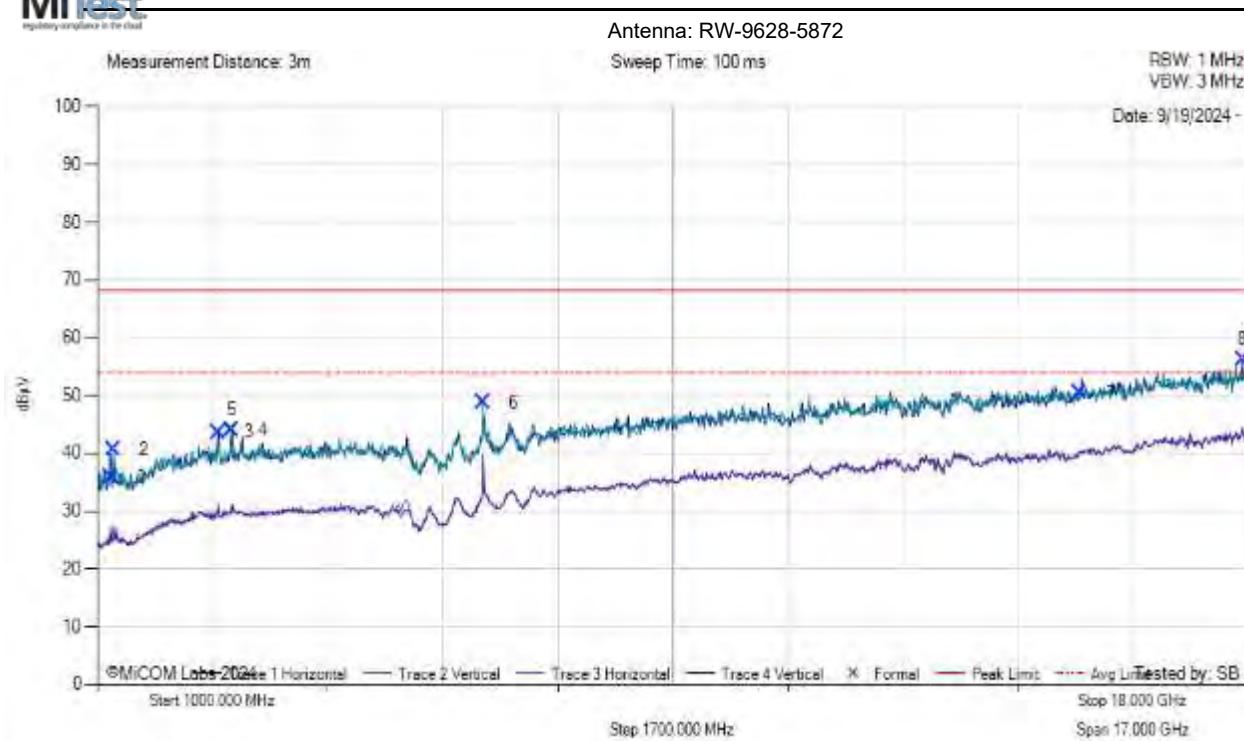
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6700	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1204.00	51.17	1.41	28.79	35.97	MaxP	Horizontal	149	180	68.2	-32.3	Pass
2	1238.00	55.44	1.43	29.07	40.61	MaxP	Vertical	100	0	68.2	-27.6	Pass
3	2785.00	53.30	2.12	32.48	43.64	MaxP	Horizontal	149	240	68.2	-24.6	Pass
4	2989.00	53.22	2.20	32.94	44.05	MaxP	Vertical	100	0	68.2	-24.2	Pass
5	2989.00	53.23	2.20	32.94	44.06	MaxP	Horizontal	101	240	68.2	-24.2	Pass
6	6695.00	53.95	3.42	35.74	48.81	MaxP	Vertical	149	119	68.2	-19.4	Pass
7	15518.00	47.56	5.59	40.20	50.39	MaxP	Horizontal	101	240	68.2	-17.8	Pass
8	17915.00	48.28	6.67	41.55	56.23	MaxP	Horizontal	101	300	68.2	-12.0	Pass

**Test Notes:** 120VAC POE, 6700MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

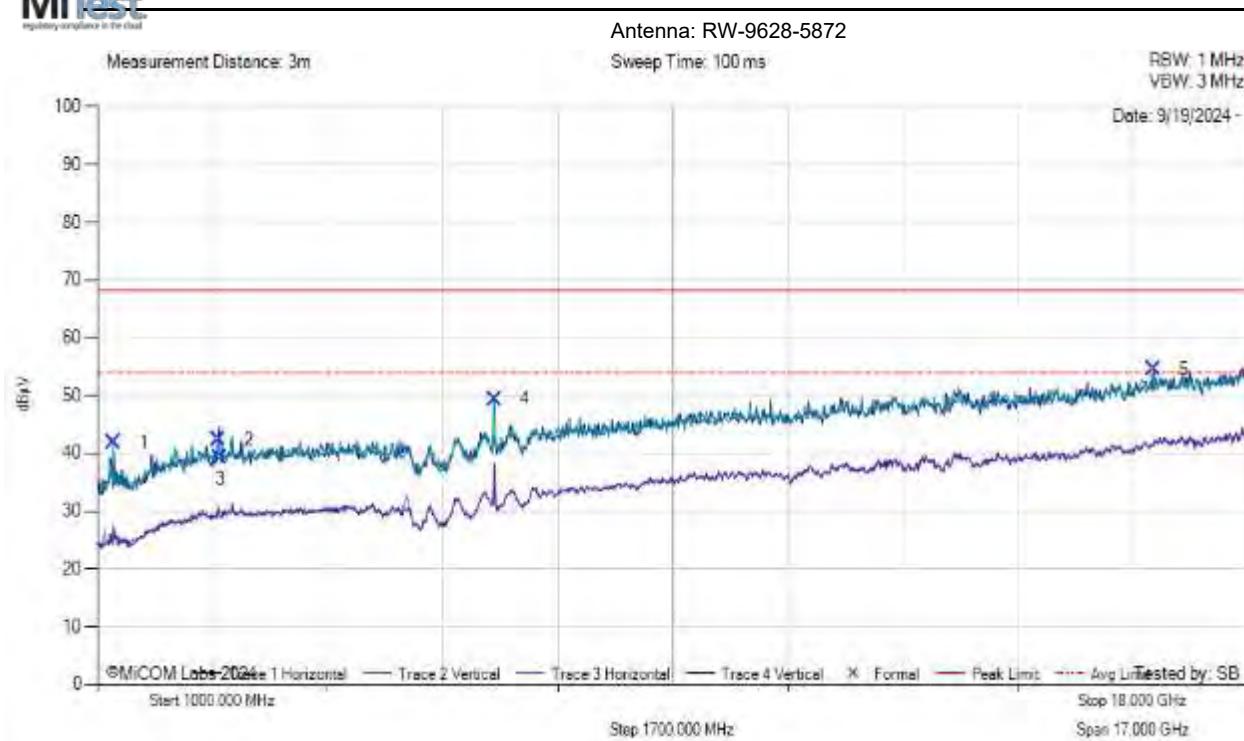
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6865 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	1238.00	56.66	1.43	29.07	41.84	MaxP	Vertical	149	0	68.2	-26.4	Pass
2	2785.00	51.96	2.12	32.48	42.30	MaxP	Vertical	101	0	68.2	-25.9	Pass
3	2819.00	48.82	2.12	32.54	39.24	MaxP	Horizontal	100	120	68.2	-29.0	Pass
4	6865.00	53.94	3.48	35.87	49.40	MaxP	Vertical	149	119	68.2	-18.8	Pass
5	16606.00	49.00	6.19	41.40	54.49	MaxP	Vertical	100	179	68.2	-13.7	Pass

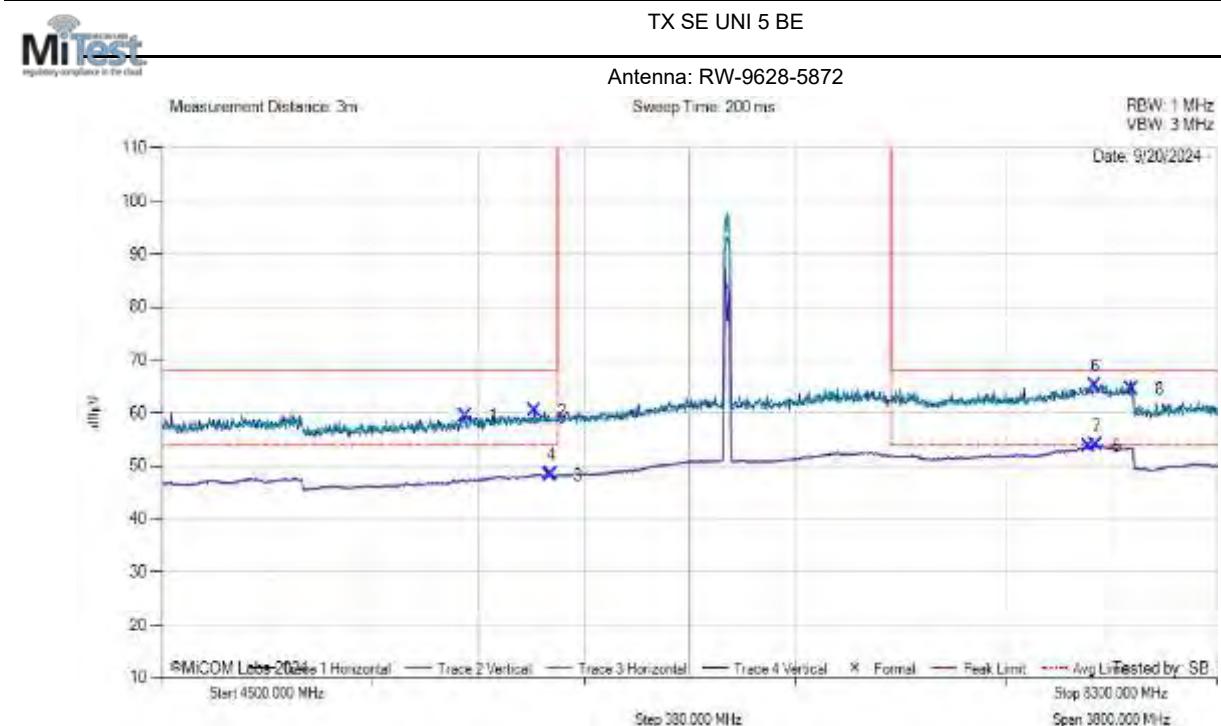
Test Notes: 120VAC POE, 6865MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

#### 9.5.1.1.4. Band Edge 5925-7125 MHz

### 9.5.1.1.4.1. 20MHz

Equipment Configuration for TX SE UNI 5 BE			
<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6535 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

## Test Measurement Results



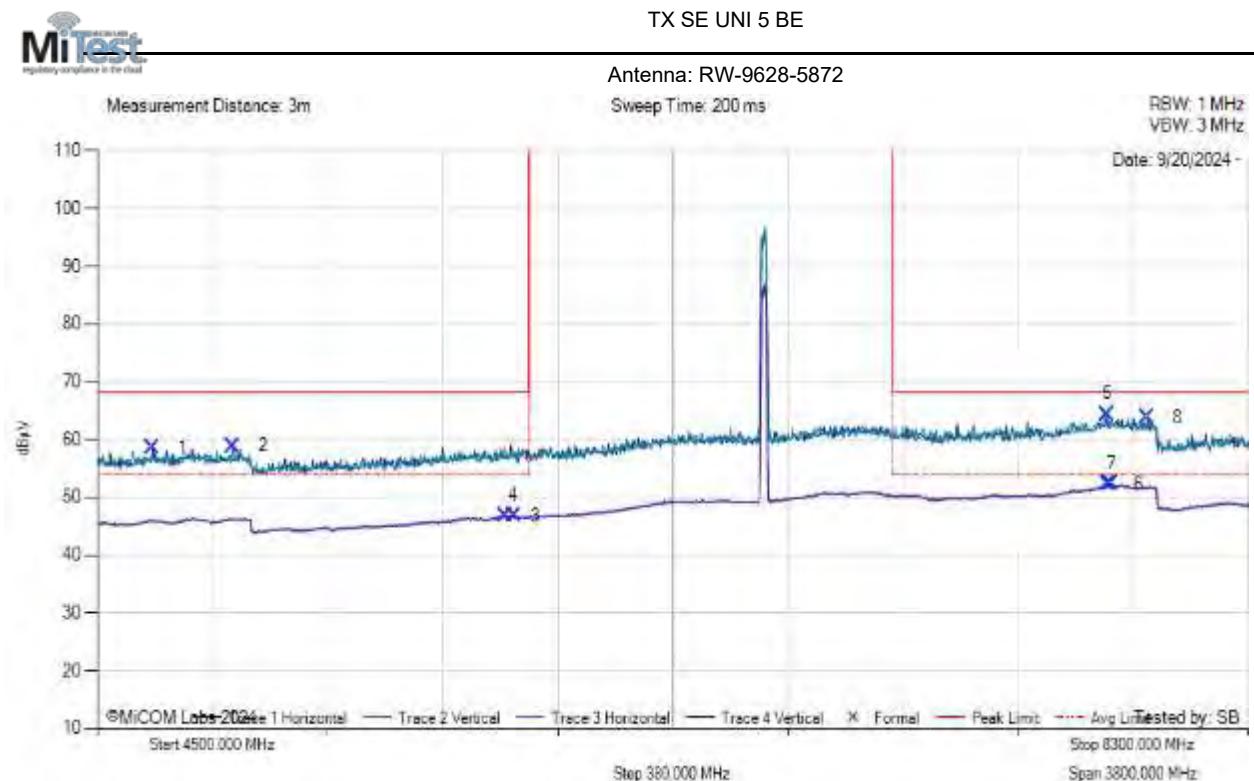
4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	5594.40	31.79	3.13	34.55	59.47	MaxP	Vertical	149	0	68.2	-8.8	Pass
2	5841.40	32.32	3.19	34.94	60.45	MaxP	Horizontal	199	60	68.2	-7.8	Pass
3	5898.40	20.04	3.23	35.04	48.32	AVG	Vertical	149	0	54.0	-5.7	Pass
4	5902.20	20.28	3.21	35.05	48.54	AVG	Horizontal	100	30	54.0	-5.5	Pass
5	7836.40	24.04	3.82	35.88	53.74	AVG	Vertical	199	0	54.0	-0.3	Pass
6	7859.20	35.52	3.88	35.88	65.28	MaxP	Vertical	199	59	68.2	-3.0	Pass
7	7863.00	24.24	3.82	35.88	53.94	AVG	Horizontal	199	0	54.0	-0.1	Pass
8	7992.20	34.81	3.81	35.85	64.48	MaxP	Horizontal	149	90	68.2	-3.8	Pass

**Test Notes:** 120VAC POE, 6535 MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

Test Measurement Results



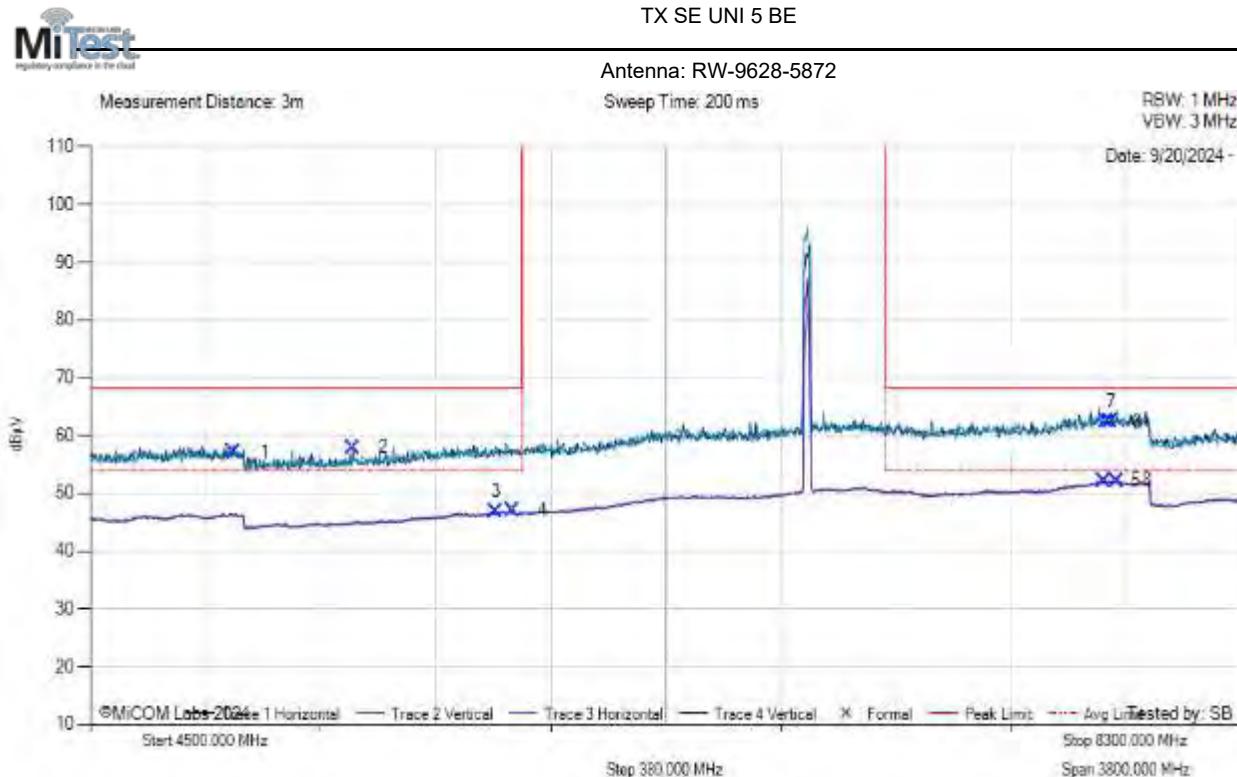
4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4682.40	31.71	2.84	34.02	58.57	MaxP	Horizontal	149	150	68.2	-9.7	Pass
2	4948.40	32.02	2.88	34.01	58.91	MaxP	Vertical	149	29	68.2	-9.3	Pass
3	5845.20	18.74	3.18	34.95	46.86	AVG	Vertical	100	0	54.0	-7.1	Pass
4	5875.60	18.51	3.23	35.00	46.74	AVG	Horizontal	199	0	54.0	-7.3	Pass
5	7832.60	34.73	3.81	35.88	64.42	MaxP	Horizontal	149	150	68.2	-3.8	Pass
6	7836.40	22.58	3.82	35.88	52.28	AVG	Vertical	199	0	54.0	-1.7	Pass
7	7847.80	22.50	3.89	35.88	52.27	AVG	Horizontal	149	150	54.0	-1.7	Pass
8	7965.60	34.15	3.83	35.86	63.85	MaxP	Vertical	199	89	68.2	-4.4	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6865 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

Test Measurement Results



4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4975.00	30.18	2.94	34.01	57.13	MaxP	Vertical	149	59	68.2	-11.1	Pass
2	5366.40	30.39	3.09	34.46	57.94	MaxP	Horizontal	199	120	68.2	-10.3	Pass
3	5837.60	18.74	3.21	34.93	46.88	AVG	Horizontal	199	0	54.0	-7.1	Pass
4	5894.60	18.79	3.21	35.04	47.04	AVG	Vertical	149	90	54.0	-7.0	Pass
5	7847.80	22.46	3.89	35.88	52.23	AVG	Horizontal	199	30	54.0	-1.8	Pass
6	7855.40	32.50	3.93	35.88	62.31	MaxP	Vertical	199	89	68.2	-5.9	Pass
7	7866.80	32.64	3.82	35.88	62.34	MaxP	Horizontal	100	90	68.2	-5.9	Pass
8	7889.60	22.48	3.83	35.88	52.19	AVG	Vertical	199	119	54.0	-1.8	Pass

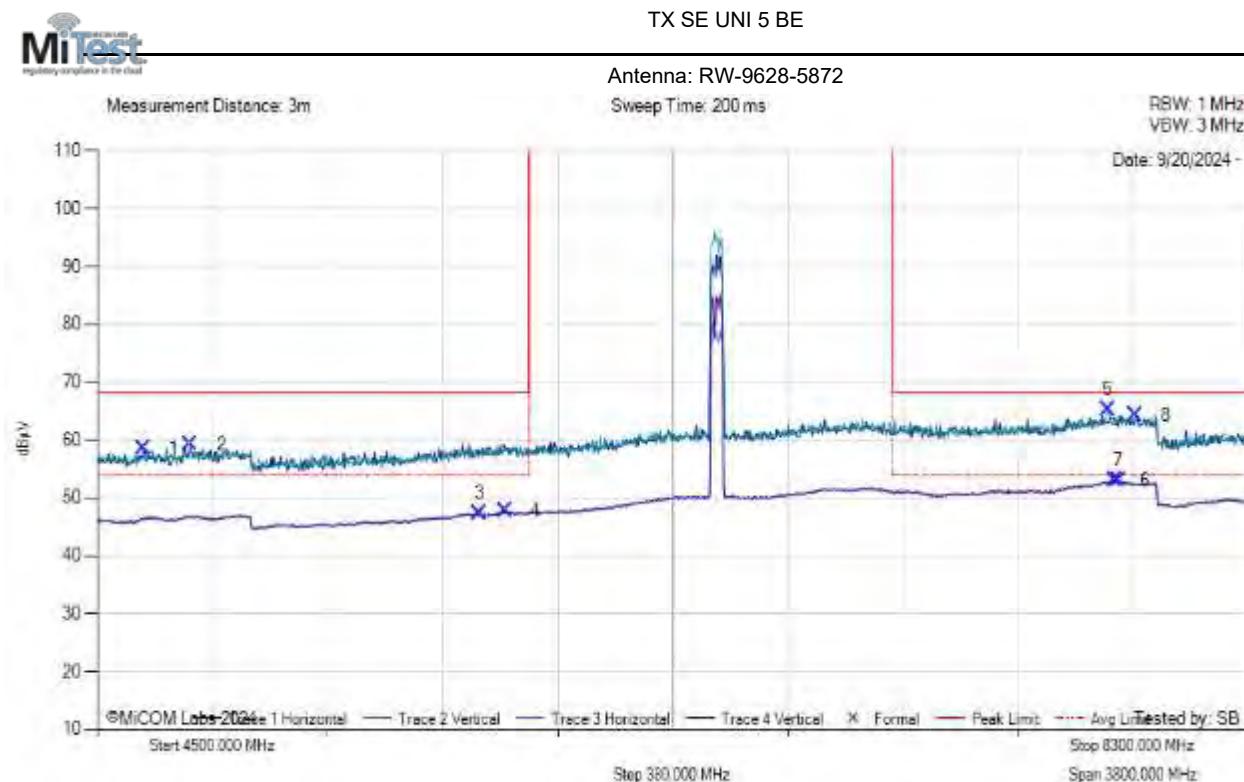
**Test Notes:** 120VAC POE, 6865 MHz, RW-9628-5872 Antenna, 20MHz BW, PS 5.5

#### 9.5.1.1.4.2. 40MHz

##### Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6545 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	4.5	<b>Tested By:</b>	SB

##### Test Measurement Results



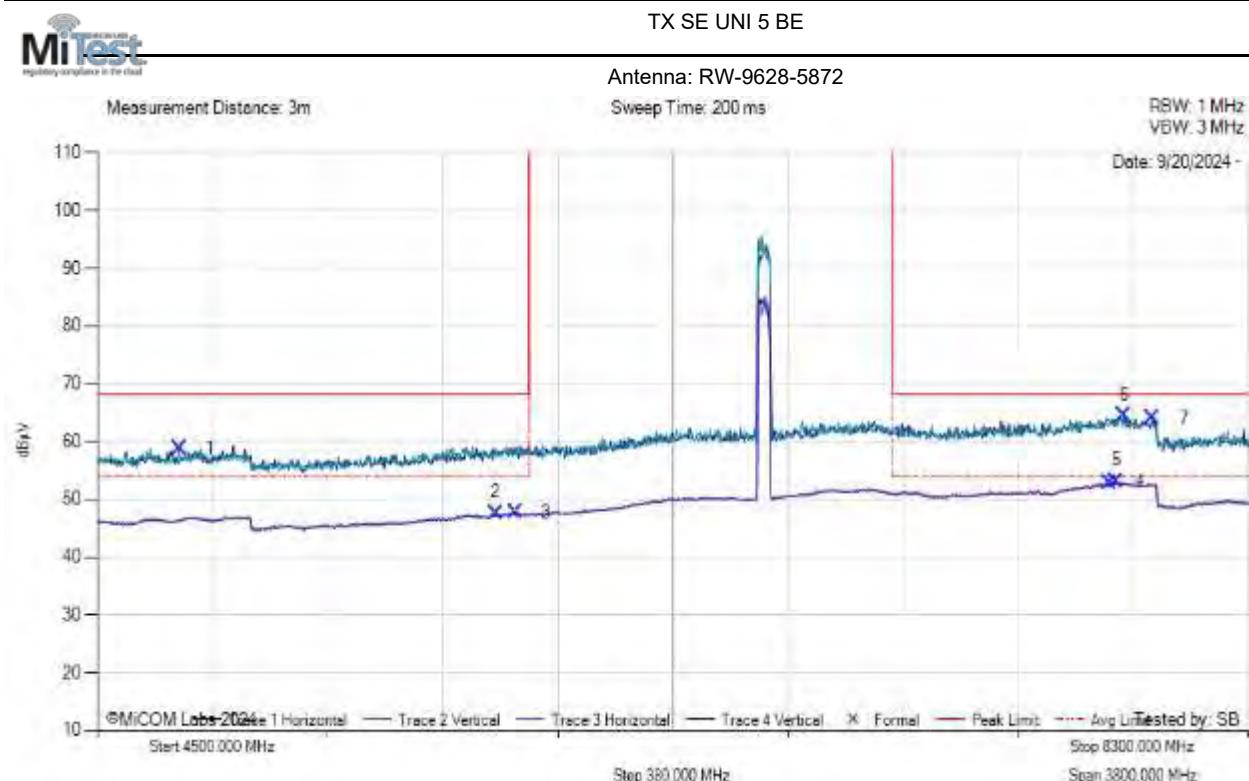
4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4652.00	31.69	2.86	34.01	58.56	MaxP	Horizontal	101	90	68.2	-9.7	Pass
2	4807.80	32.36	2.86	34.00	59.21	MaxP	Vertical	101	0	68.2	-9.0	Pass
3	5761.60	19.39	3.19	34.76	47.34	AVG	Vertical	199	150	54.0	-6.7	Pass
4	5845.20	19.71	3.18	34.95	47.83	AVG	Horizontal	101	120	54.0	-6.2	Pass
5	7836.40	35.61	3.82	35.88	65.30	MaxP	Vertical	101	0	68.2	-2.9	Pass
6	7859.20	23.22	3.88	35.88	52.97	AVG	Vertical	149	29	54.0	-1.0	Pass
7	7870.60	23.21	3.87	35.88	52.96	AVG	Horizontal	101	60	54.0	-1.0	Pass
8	7927.60	34.71	3.78	35.87	64.36	MaxP	Horizontal	149	150	68.2	-3.9	Pass

**Test Notes:** 120VAC POE, 6545 MHz, RW-9628-5872 Antenna, 40MHz BW, PS 4.5

**Equipment Configuration for TX SE UNI 5 BE**

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	4.5	<b>Tested By:</b>	SB

**Test Measurement Results**



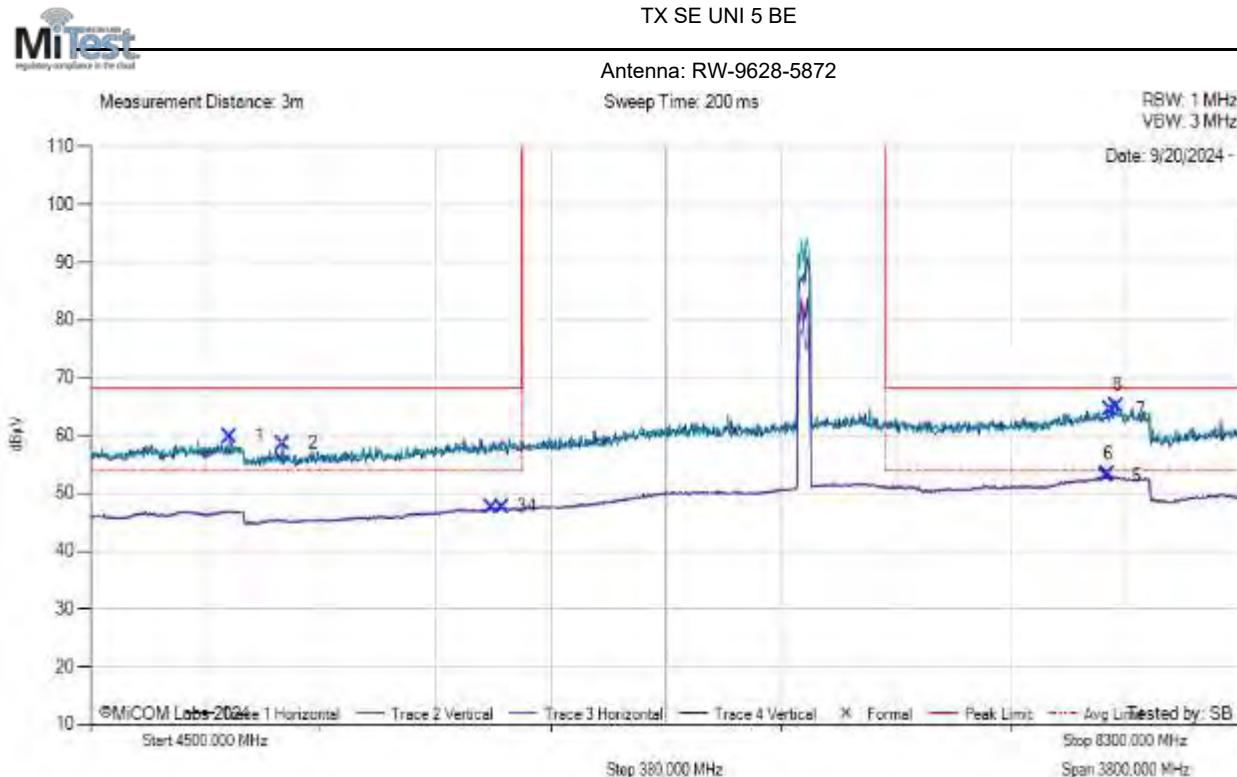
4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4769.80	31.98	2.85	34.01	58.84	MaxP	Vertical	199	150	68.2	-9.4	Pass
2	5814.80	19.57	3.19	34.88	47.64	AVG	Horizontal	199	120	54.0	-6.4	Pass
3	5879.40	19.47	3.21	35.01	47.70	AVG	Vertical	101	0	54.0	-6.3	Pass
4	7840.20	23.21	3.84	35.88	52.93	AVG	Horizontal	149	120	54.0	-1.1	Pass
5	7863.00	23.47	3.82	35.88	53.17	AVG	Vertical	149	0	54.0	-0.8	Pass
6	7889.60	34.76	3.83	35.88	64.47	MaxP	Vertical	149	89	68.2	-3.8	Pass
7	7984.60	34.36	3.91	35.86	64.13	MaxP	Horizontal	199	90	68.2	-4.1	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9628-5872 Antenna, 40MHz BW, PS 4.5

Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6855 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	5.0	<b>Tested By:</b>	SB

Test Measurement Results



4500.00 - 8300.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4959.80	32.98	2.89	34.01	59.89	MaxP	Vertical	149	29	68.2	-8.3	Pass
2	5134.60	31.49	3.09	34.12	58.70	MaxP	Horizontal	100	30	68.2	-9.5	Pass
3	5826.20	19.48	3.24	34.90	47.62	AVG	Vertical	100	150	54.0	-6.4	Pass
4	5860.40	19.39	3.30	34.98	47.66	AVG	Horizontal	149	120	54.0	-6.3	Pass
5	7855.40	23.20	3.93	35.88	53.01	AVG	Horizontal	100	120	54.0	-1.0	Pass
6	7859.20	23.44	3.88	35.88	53.20	AVG	Horizontal	100	-1	54.0	-0.8	Pass
7	7866.80	34.82	3.82	35.88	64.52	MaxP	Vertical	100	59	68.2	-3.7	Pass
8	7889.60	35.44	3.83	35.88	65.15	MaxP	Horizontal	100	120	68.2	-3.1	Pass

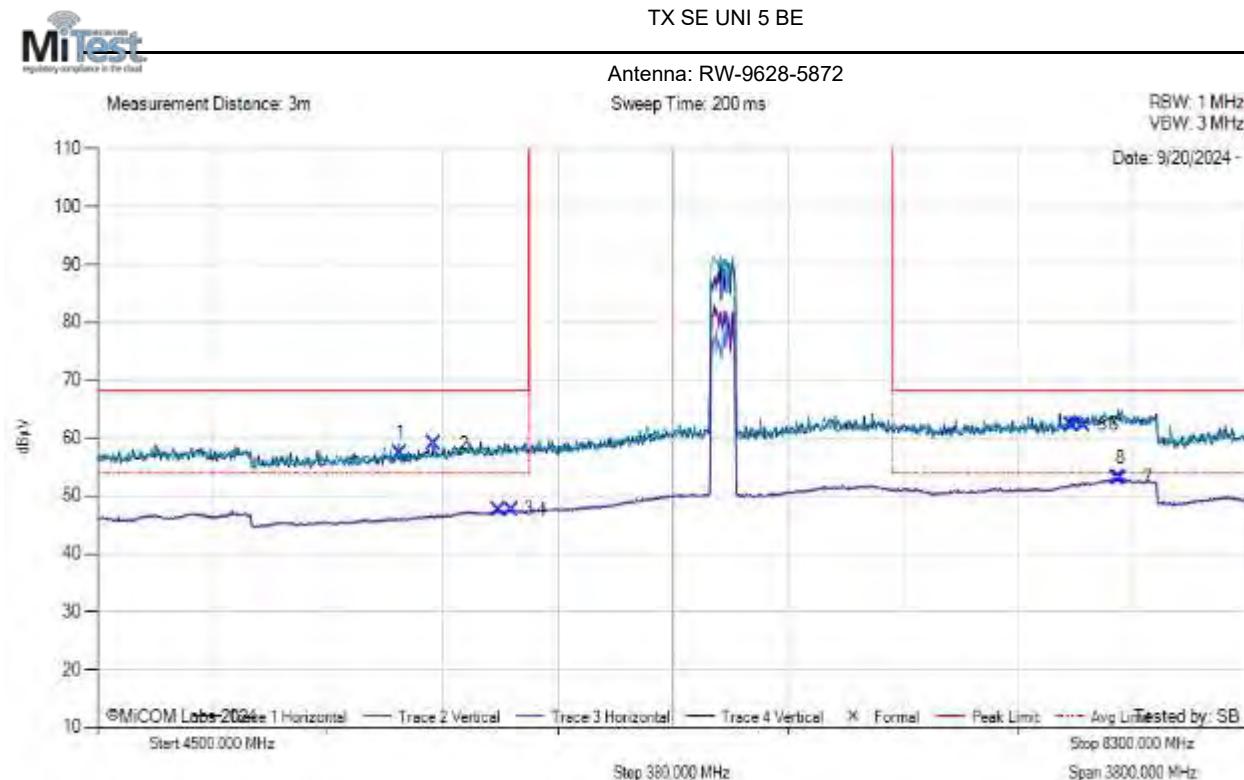
**Test Notes:** 120VAC POE, 6855 MHz, RW-9628-5872 Antenna, 40MHz BW, PS 5.0

#### 9.5.1.1.4.3. 80MHz

##### Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6565 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

##### Test Measurement Results



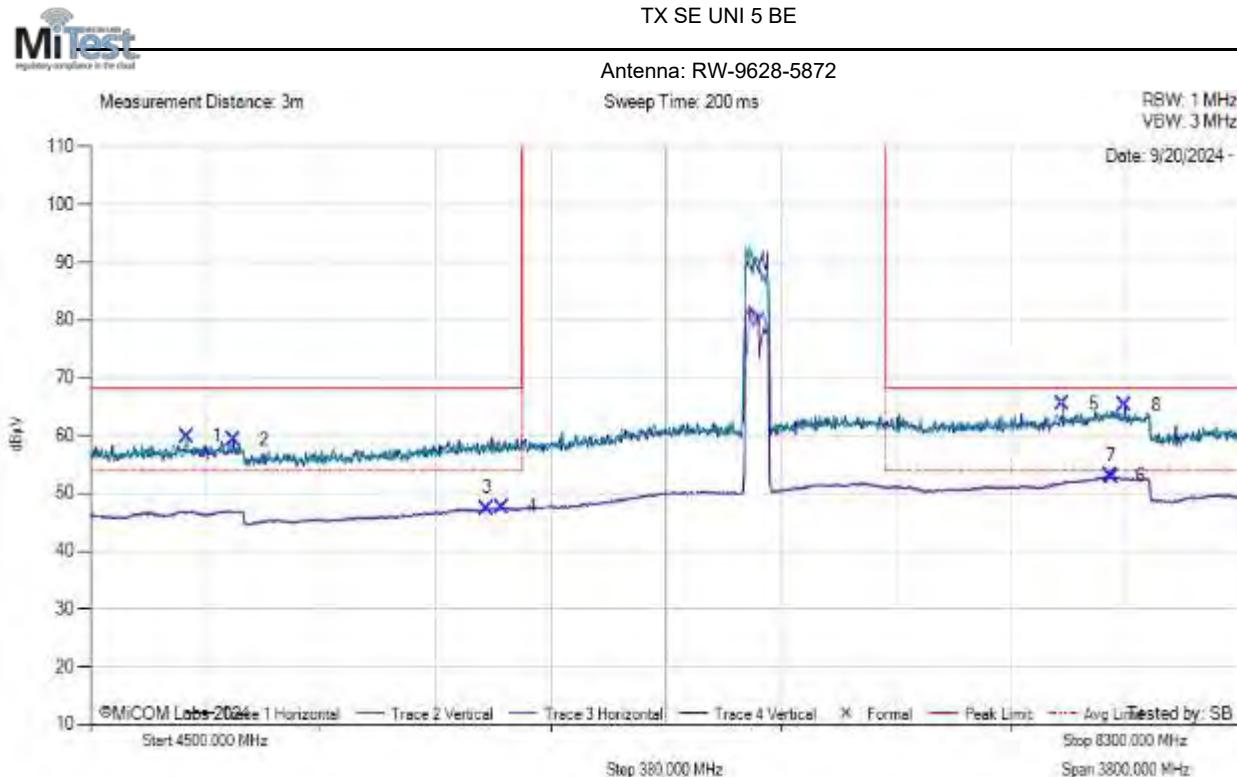
4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	5499.40	29.71	3.10	34.53	57.34	MaxP	Vertical	100	59	68.2	-10.9	Pass
2	5609.60	31.30	3.17	34.56	59.03	MaxP	Horizontal	199	90	68.2	-9.2	Pass
3	5826.20	19.53	3.24	34.90	47.67	AVG	Horizontal	149	150	54.0	-6.3	Pass
4	5868.00	19.34	3.26	34.99	47.59	AVG	Vertical	199	119	54.0	-6.4	Pass
5	7718.60	32.45	3.93	35.85	62.24	MaxP	Vertical	149	150	68.2	-6.0	Pass
6	7756.60	32.58	3.80	35.86	62.24	MaxP	Horizontal	149	60	68.2	-6.0	Pass
7	7866.80	23.48	3.82	35.88	53.18	AVG	Horizontal	199	30	54.0	-0.8	Pass
8	7878.20	23.24	3.92	35.88	53.04	AVG	Vertical	100	59	54.0	-1.0	Pass

**Test Notes:** 120VAC POE, 6565 MHz, RW-9628-5872 Antenna, 80MHz BW, PS 5.5

Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	5.0	<b>Tested By:</b>	SB

Test Measurement Results



4500.00 - 8300.00 MHz

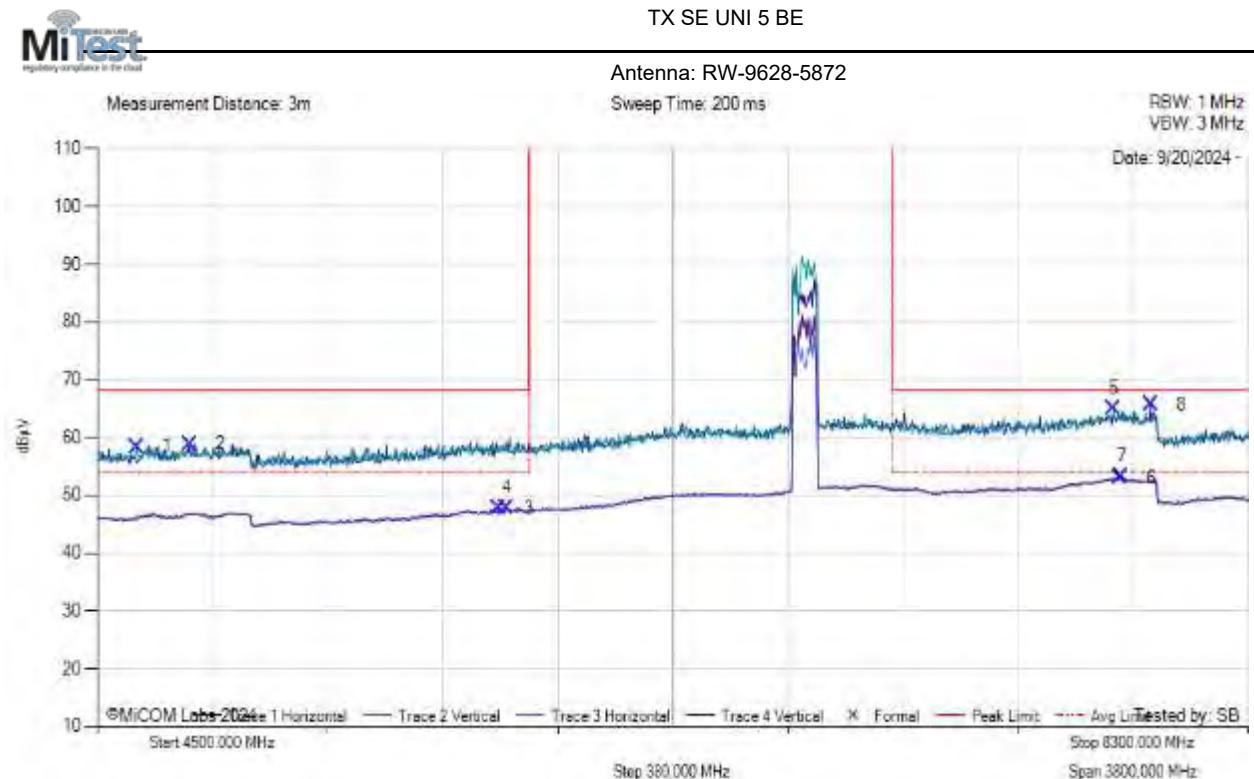
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4819.20	32.98	2.88	34.00	59.86	MaxP	Vertical	100	59	68.2	-8.4	Pass
2	4971.20	32.34	2.94	34.01	59.30	MaxP	Horizontal	199	30	68.2	-8.9	Pass
3	5807.20	19.35	3.23	34.86	47.44	AVG	Vertical	100	0	54.0	-6.6	Pass
4	5860.40	19.38	3.30	34.98	47.65	AVG	Horizontal	149	60	54.0	-6.4	Pass
5	7711.00	35.71	3.91	35.85	65.47	MaxP	Vertical	100	29	68.2	-2.8	Pass
6	7866.80	23.33	3.82	35.88	53.03	AVG	Vertical	149	29	54.0	-1.0	Pass
7	7870.60	23.20	3.87	35.88	52.95	AVG	Horizontal	149	150	54.0	-1.0	Pass
8	7916.20	35.65	3.74	35.88	65.27	MaxP	Horizontal	100	120	68.2	-3.0	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9628-5872 Antenna, 80MHz BW, PS 5.0

**Equipment Configuration for TX SE UNI 5 BE**

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6835 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

**Test Measurement Results**



4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4629.20	31.70	2.77	34.00	58.47	MaxP	Vertical	101	0	68.2	-9.8	Pass
2	4804.00	32.10	2.85	34.00	58.95	MaxP	Horizontal	199	60	68.2	-9.3	Pass
3	5826.20	19.66	3.24	34.90	47.80	AVG	Horizontal	149	120	54.0	-6.2	Pass
4	5852.80	19.48	3.31	34.97	47.76	AVG	Vertical	100	150	54.0	-6.2	Pass
5	7855.40	35.26	3.93	35.88	65.08	MaxP	Vertical	100	150	68.2	-3.2	Pass
6	7878.20	23.18	3.92	35.88	52.98	AVG	Vertical	199	89	54.0	-1.0	Pass
7	7882.00	23.54	3.89	35.88	53.31	AVG	Horizontal	149	120	54.0	-0.7	Pass
8	7977.00	35.95	3.89	35.86	65.70	MaxP	Horizontal	100	60	68.2	-2.5	Pass

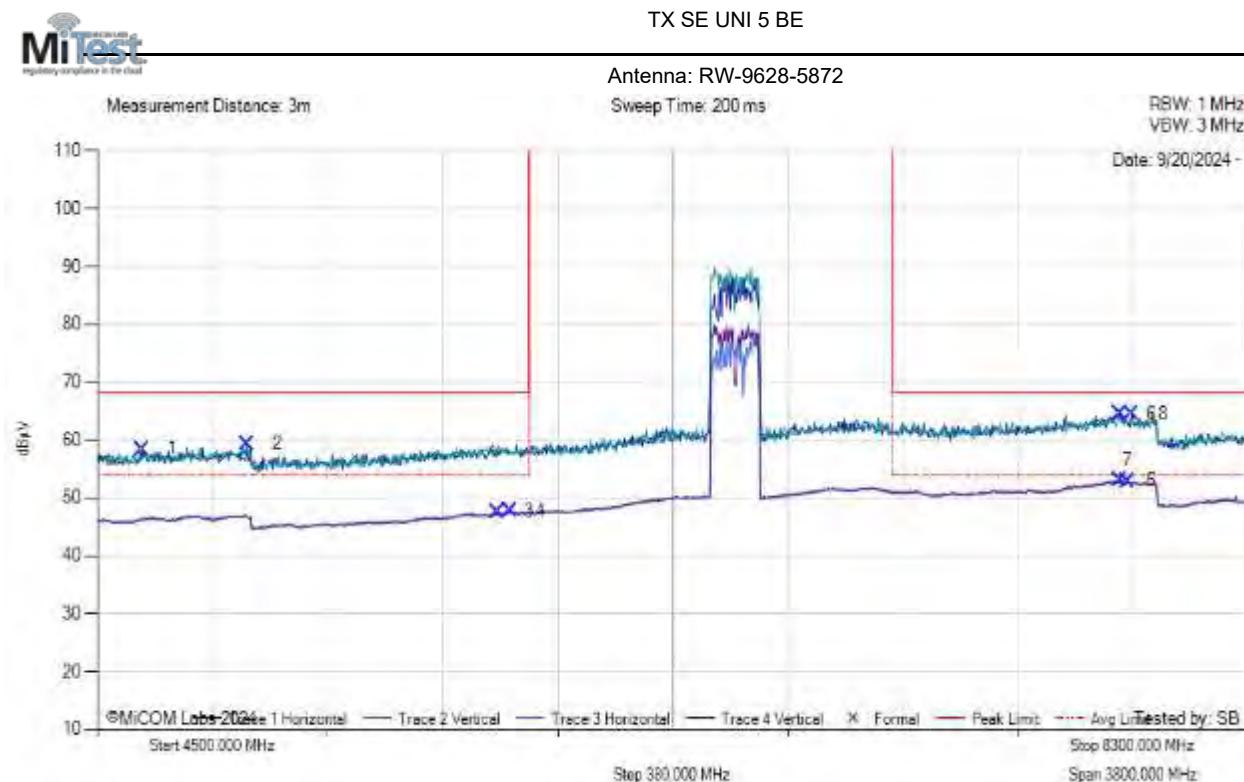
**Test Notes:** 120VAC POE, 6835 MHz, RW-9628-5872 Antenna, 80MHz BW, PS 5.5

#### 9.5.1.1.4.4. 160MHz

##### Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6605 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	4.5	<b>Tested By:</b>	SB

##### Test Measurement Results

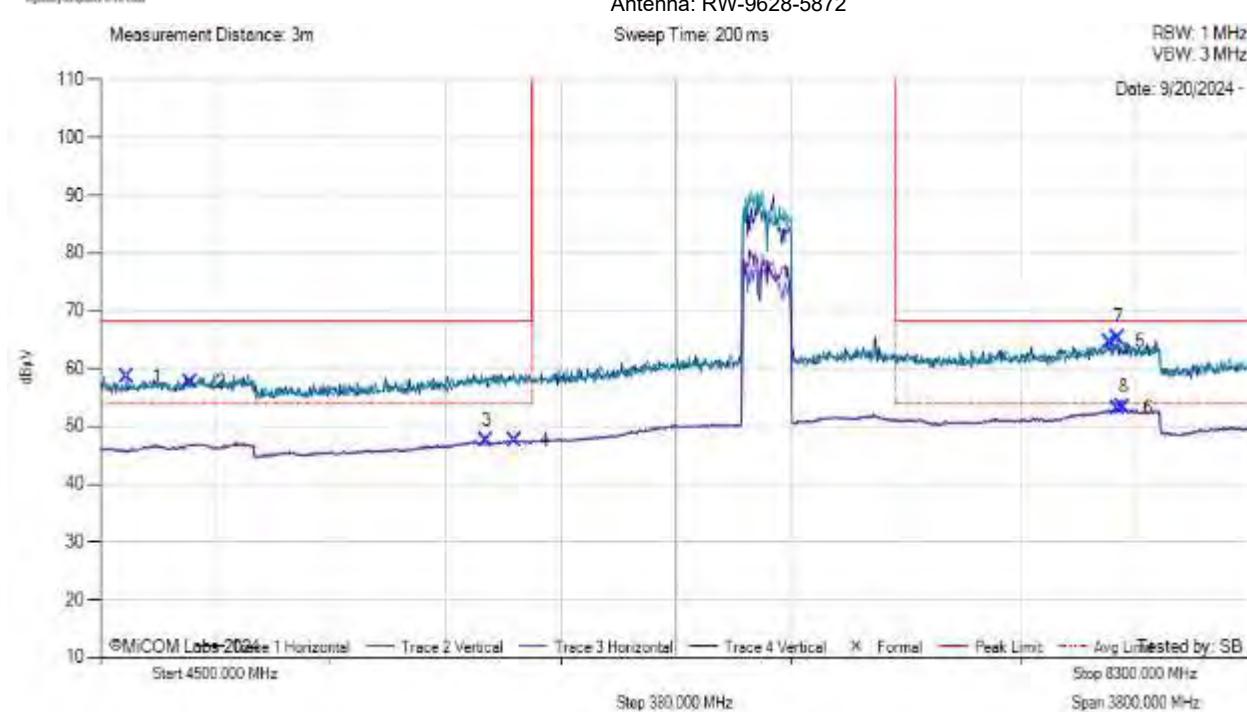


4500.00 - 8300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4648.20	31.53	2.85	34.01	58.39	MaxP	Horizontal	100	90	68.2	-9.8	Pass	
2	4994.00	32.30	3.05	34.02	59.37	MaxP	Vertical	100	59	68.2	-8.9	Pass	
3	5822.40	19.50	3.23	34.90	47.63	AVG	Horizontal	199	0	54.0	-6.4	Pass	
4	5864.20	19.48	3.28	34.98	47.75	AVG	Vertical	100	29	54.0	-6.3	Pass	
5	7878.20	23.23	3.92	35.88	53.03	AVG	Vertical	199	150	54.0	-1.0	Pass	
6	7878.20	34.79	3.92	35.88	64.59	MaxP	Vertical	149	59	68.2	-3.6	Pass	
7	7901.00	23.31	3.75	35.88	52.94	AVG	Horizontal	100	30	54.0	-1.1	Pass	
8	7916.20	34.90	3.74	35.88	64.52	MaxP	Horizontal	149	120	68.2	-3.7	Pass	

**Test Notes:** 120VAC POE, 6605 MHz, RW-9628-5872 Antenna, 160MHz BW, PS 4.5

Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	4.5	<b>Tested By:</b>	SB



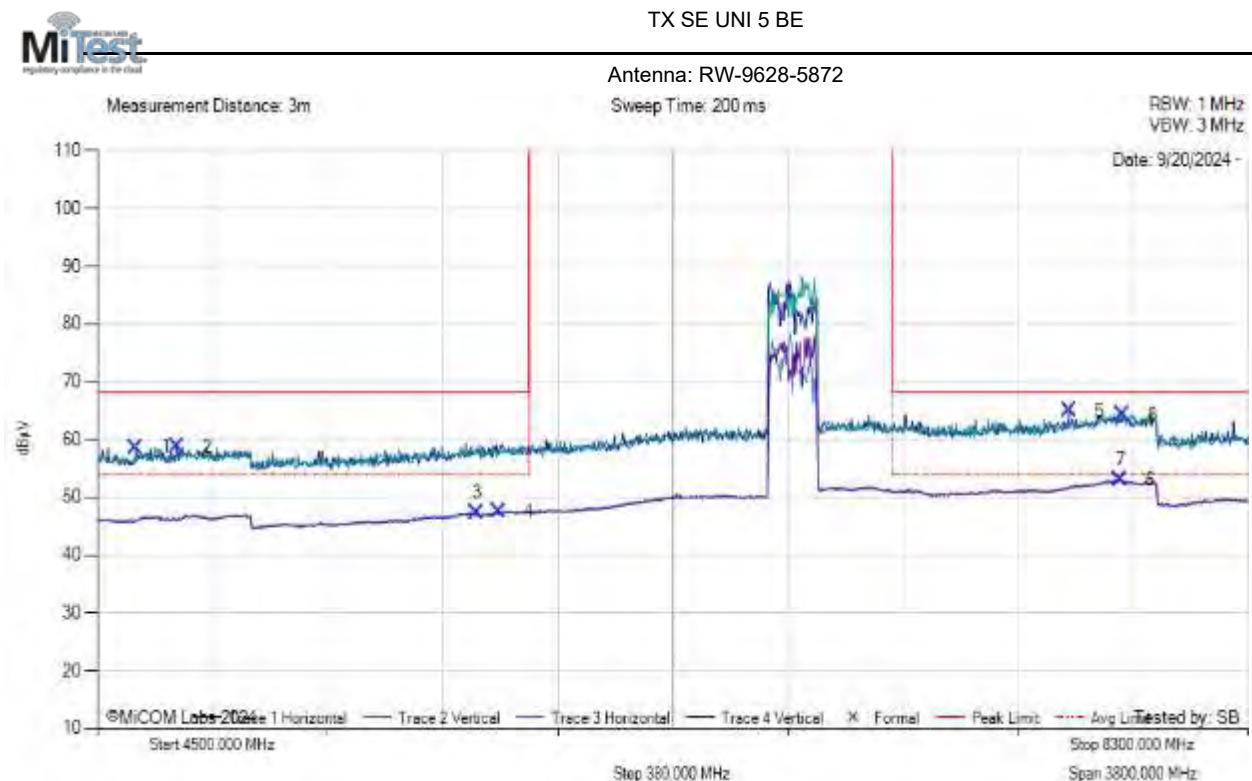
4500.00 - 8300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4587.40	31.83	2.79	33.98	58.61	MaxP	Vertical	100	89	68.2	-9.6	Pass	
2	4796.40	30.82	2.85	34.00	57.67	MaxP	Horizontal	100	90	68.2	-10.6	Pass	
3	5773.00	19.52	3.19	34.76	47.48	AVG	Vertical	100	150	54.0	-6.5	Pass	
4	5868.00	19.34	3.26	34.99	47.59	AVG	Horizontal	199	30	54.0	-6.4	Pass	
5	7832.60	35.01	3.81	35.88	64.70	MaxP	Vertical	149	119	68.2	-3.5	Pass	
6	7859.20	23.36	3.88	35.88	53.11	AVG	Vertical	100	59	54.0	-0.9	Pass	
7	7859.20	35.61	3.88	35.88	65.37	MaxP	Horizontal	149	120	68.2	-2.9	Pass	
8	7878.20	23.41	3.92	35.88	53.21	AVG	Horizontal	149	0	54.0	-0.8	Pass	

**Test Notes:** 120VAC POE, 6700 MHz, RW-9628-5872 Antenna, 160MHz BW, PS 4.5

Equipment Configuration for TX SE UNI 5 BE

<b>Antenna:</b>	RW-9628-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	28.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6795 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	5.0	<b>Tested By:</b>	SB

Test Measurement Results



4500.00 - 8300.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4625.40	31.93	2.76	34.00	58.69	MaxP	Vertical	199	119	68.2	-9.5	Pass
2	4762.20	31.92	2.86	34.02	58.79	MaxP	Horizontal	199	90	68.2	-9.4	Pass
3	5754.00	19.31	3.18	34.75	47.23	AVG	Vertical	149	29	54.0	-6.8	Pass
4	5826.20	19.40	3.24	34.90	47.54	AVG	Horizontal	149	30	54.0	-6.5	Pass
5	7707.20	35.30	3.89	35.85	65.04	MaxP	Vertical	149	119	68.2	-3.2	Pass
6	7874.40	23.28	3.92	35.88	53.08	AVG	Horizontal	149	90	54.0	-0.9	Pass
7	7878.20	23.19	3.92	35.88	52.99	AVG	Vertical	199	0	54.0	-1.0	Pass
8	7885.80	34.59	3.86	35.88	64.33	MaxP	Horizontal	199	30	68.2	-3.9	Pass

**Test Notes:** 120VAC POE, 6795 MHz, RW-9628-5872 Antenna, 160MHz BW, PS 5.0

### 9.5.1.2. RADWIN RW-9632-5872

#### 9.5.1.2.1. Spurious Emissions 5925-6425MHz

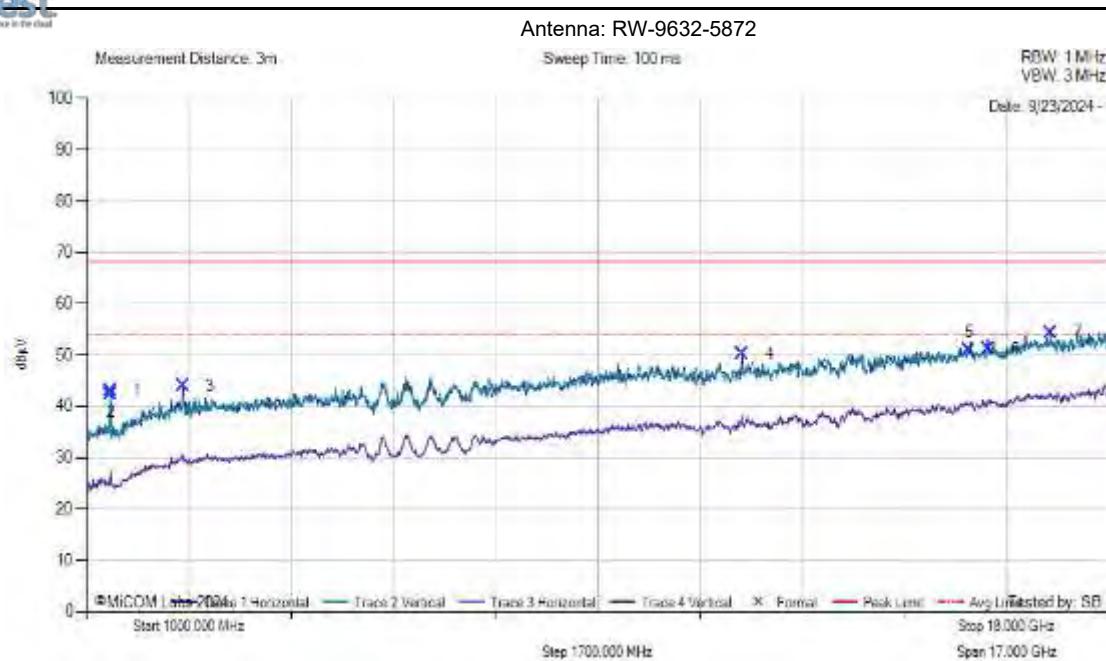
##### Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	5945	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

##### Test Measurement Results



##### FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail	
1	1391.00	58.11	1.51	28.57	43.08	MaxP	Vertical	149	300	68.2	-25.2	Pass	
2	1391.00	57.47	1.51	28.57	42.44	MaxP	Horizontal	149	300	68.2	-25.8	Pass	
3	2598.00	53.58	2.06	32.54	44.00	MaxP	Horizontal	100	180	68.2	-24.2	Pass	
4	11897.00	51.30	4.99	38.79	50.15	MaxP	Horizontal	149	0	68.2	-18.1	Pass	
5	15671.00	47.46	5.77	40.38	50.95	MaxP	Horizontal	149	60	68.2	-17.3	Pass	
6	15994.00	46.71	5.82	40.72	51.14	MaxP	Horizontal	149	240	68.2	-17.1	Pass	
7	17014.00	48.37	6.53	41.54	54.42	MaxP	Vertical	100	119	68.2	-13.8	Pass	

**Test Notes:** 120VAC POE, 5945 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

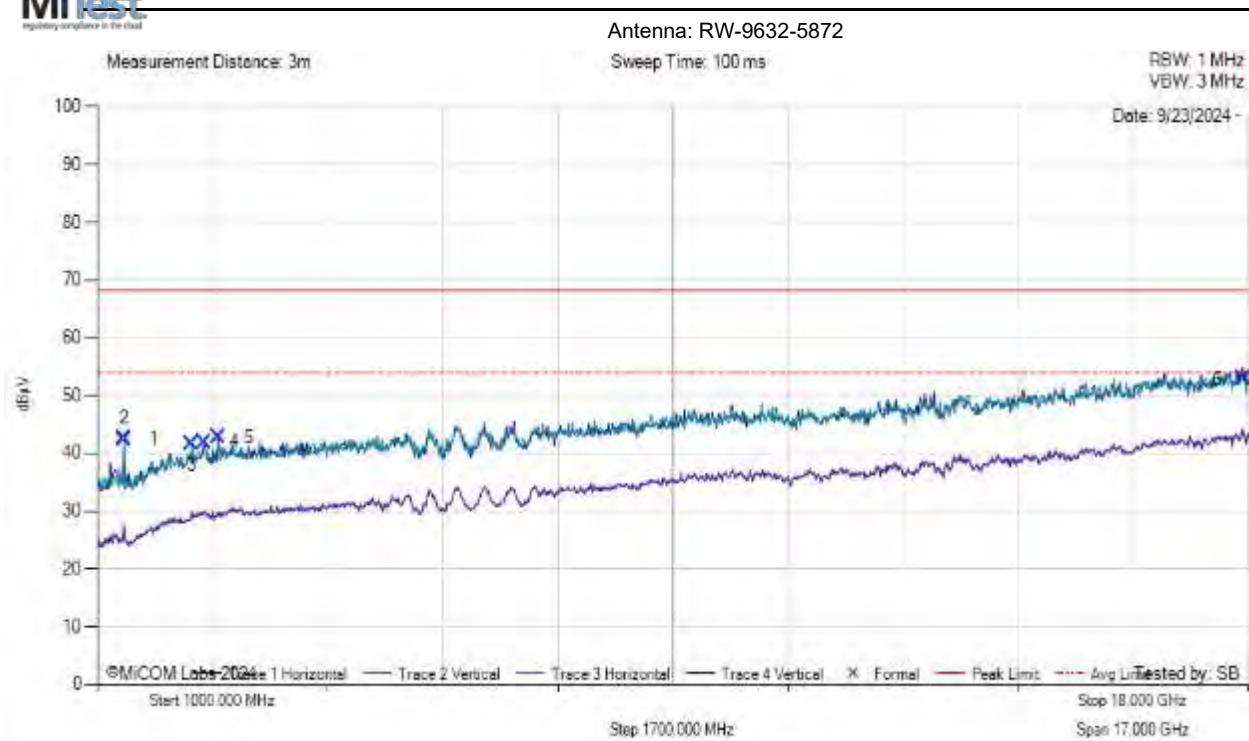
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6175	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1391.00	57.51	1.51	28.57	42.48	MaxP	Horizontal	149	300	68.2	-25.7	Pass
2	1391.00	57.49	1.51	28.57	42.46	MaxP	Vertical	149	300	68.2	-25.8	Pass
3	2394.00	51.84	1.96	32.16	41.64	MaxP	Vertical	100	0	68.2	-26.6	Pass
4	2581.00	51.49	2.04	32.53	41.94	MaxP	Vertical	101	239	68.2	-26.3	Pass
5	2785.00	52.44	2.12	32.48	42.79	MaxP	Horizontal	101	180	68.2	-25.4	Pass
6	17932.00	45.44	6.50	41.53	52.85	MaxP	Horizontal	149	0	68.2	-15.4	Pass

**Test Notes:** 120VAC POE, 6175 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

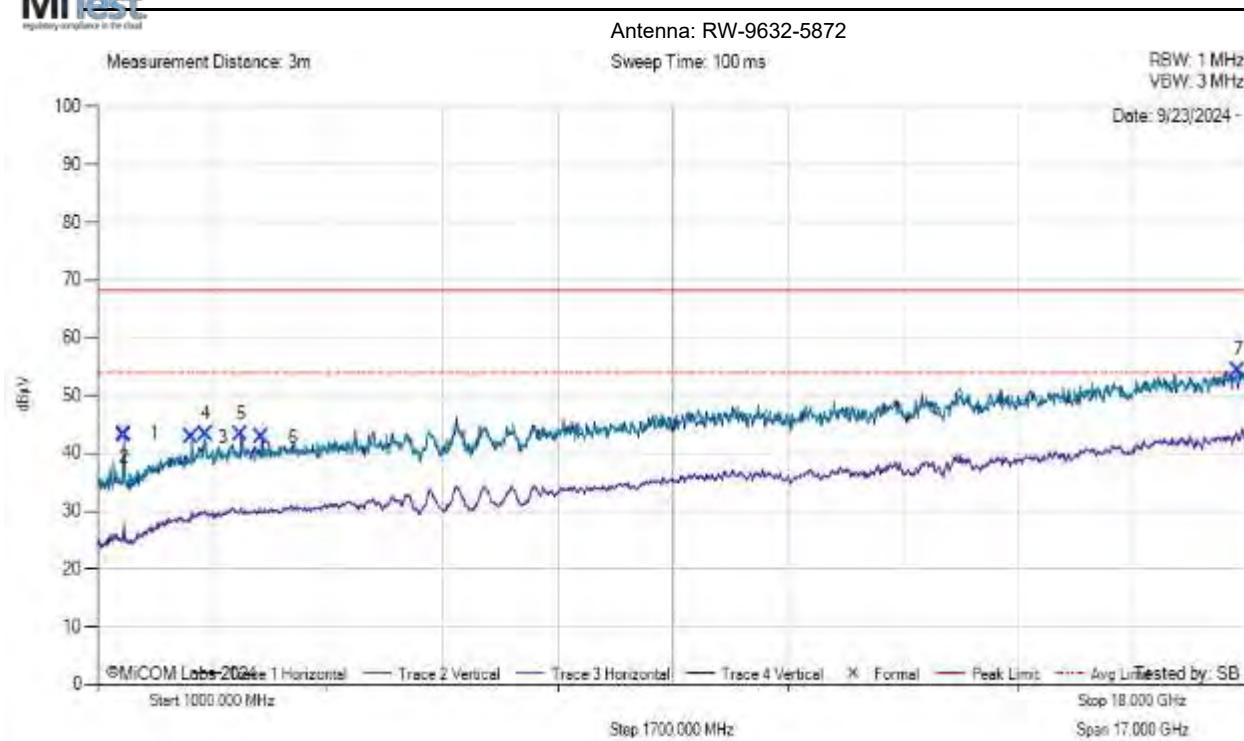
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6415	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	2.0	<b>Tested By:</b>	SB

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	1391.00	58.39	1.51	28.57	43.36	MaxP	Vertical	149	300	68.2	-24.9	Pass	
2	1391.00	58.11	1.51	28.57	43.08	MaxP	Horizontal	149	300	68.2	-25.1	Pass	
3	2394.00	53.04	1.96	32.16	42.84	MaxP	Vertical	100	0	68.2	-25.4	Pass	
4	2598.00	52.90	2.06	32.54	43.32	MaxP	Vertical	101	0	68.2	-24.9	Pass	
5	3125.00	52.27	2.23	33.06	43.27	MaxP	Horizontal	100	180	68.2	-25.0	Pass	
6	3431.00	52.41	2.36	32.87	42.83	MaxP	Horizontal	100	60	68.2	-25.4	Pass	
7	17847.00	47.75	6.30	41.63	54.41	MaxP	Vertical	100	0	68.2	-13.8	Pass	

**Test Notes:** 120VAC POE, 6415 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 2.0

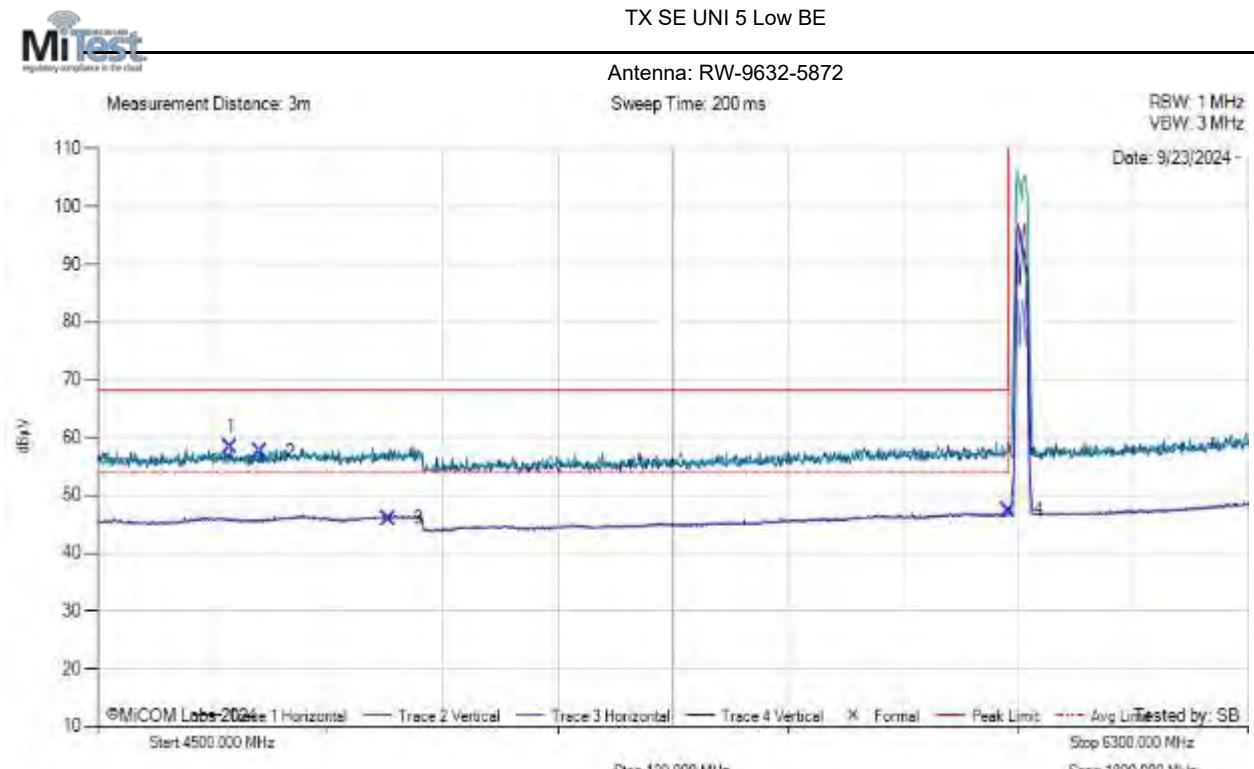
### 9.5.1.2.2. Band Edge 5925-7125 MHz

#### 9.5.1.2.2.1. 20MHz

##### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5945 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

##### Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4708.80	31.41	2.80	34.03	58.24	MaxP	Vertical	199	0	68.2	-10.0	Pass	
2	4753.80	30.78	2.85	34.02	57.65	MaxP	Horizontal	149	60	68.2	-10.6	Pass	
3	4955.40	19.07	2.89	34.01	45.97	AVG	Horizontal	199	150	54.0	-8.0	Pass	
4	5925.00	19.01	3.28	35.10	47.39	AVG	Vertical	149	89	54.0	-6.6	Pass	

**Test Notes:** 120VAC POE, 5945 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 5.5

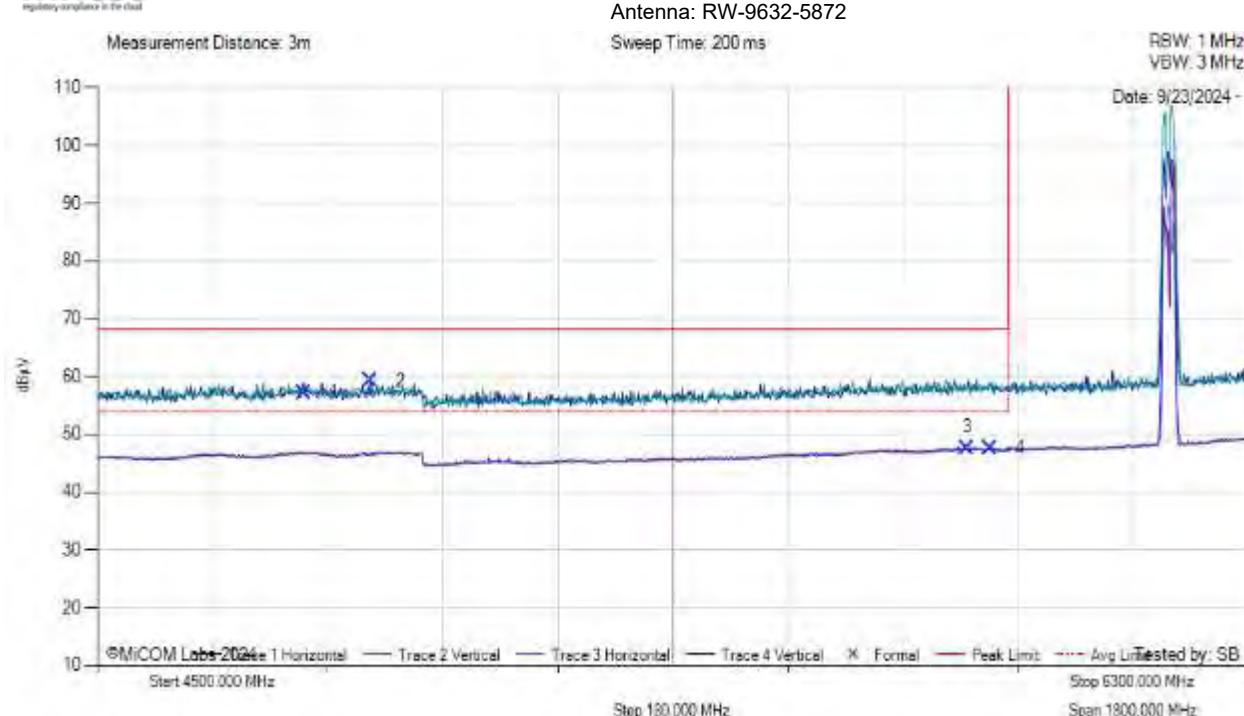
Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Low BE



4500.00 - 6300.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4824.00	30.30	2.90	34.00	57.20	MaxP	Horizontal	199	120	68.2	-11.0	Pass
2	4926.60	32.40	2.92	34.01	59.33	MaxP	Vertical	149	29	68.2	-8.9	Pass
3	5860.80	19.41	3.29	34.98	47.68	AVG	Horizontal	149	30	54.0	-6.3	Pass
4	5896.80	19.41	3.22	35.04	47.67	AVG	Vertical	149	89	54.0	-6.3	Pass

Test Notes: 120VAC POE, 6175 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

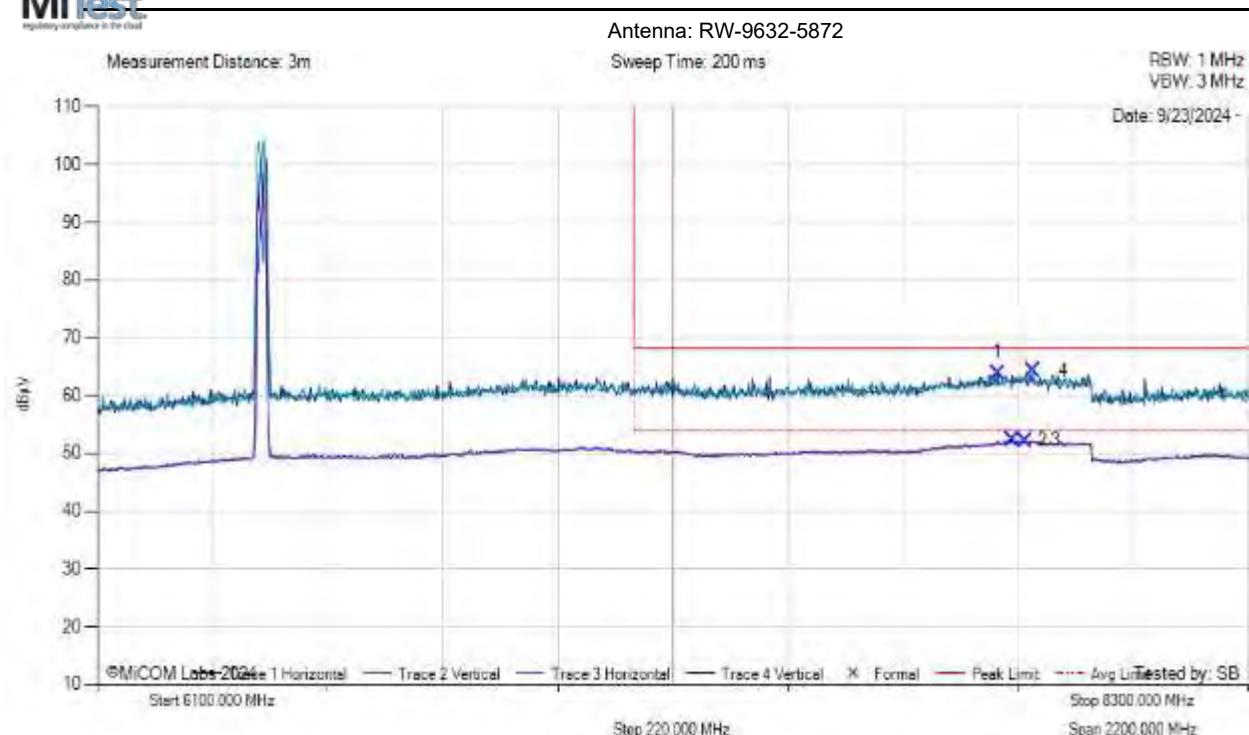
Equipment Configuration for TX SE UNI 5 HIGH BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6415 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	2.0	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 High BE



6100.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7820.40	34.22	3.81	35.87	63.90	MaxP	Horizontal	199	30	68.2	-4.3	Pass
2	7849.00	22.53	3.89	35.88	52.30	AVG	Vertical	100	150	54.0	-1.7	Pass
3	7873.20	22.41	3.91	35.88	52.20	AVG	Horizontal	149	150	54.0	-1.8	Pass
4	7888.60	34.50	3.84	35.88	64.22	MaxP	Vertical	199	89	68.2	-4.0	Pass

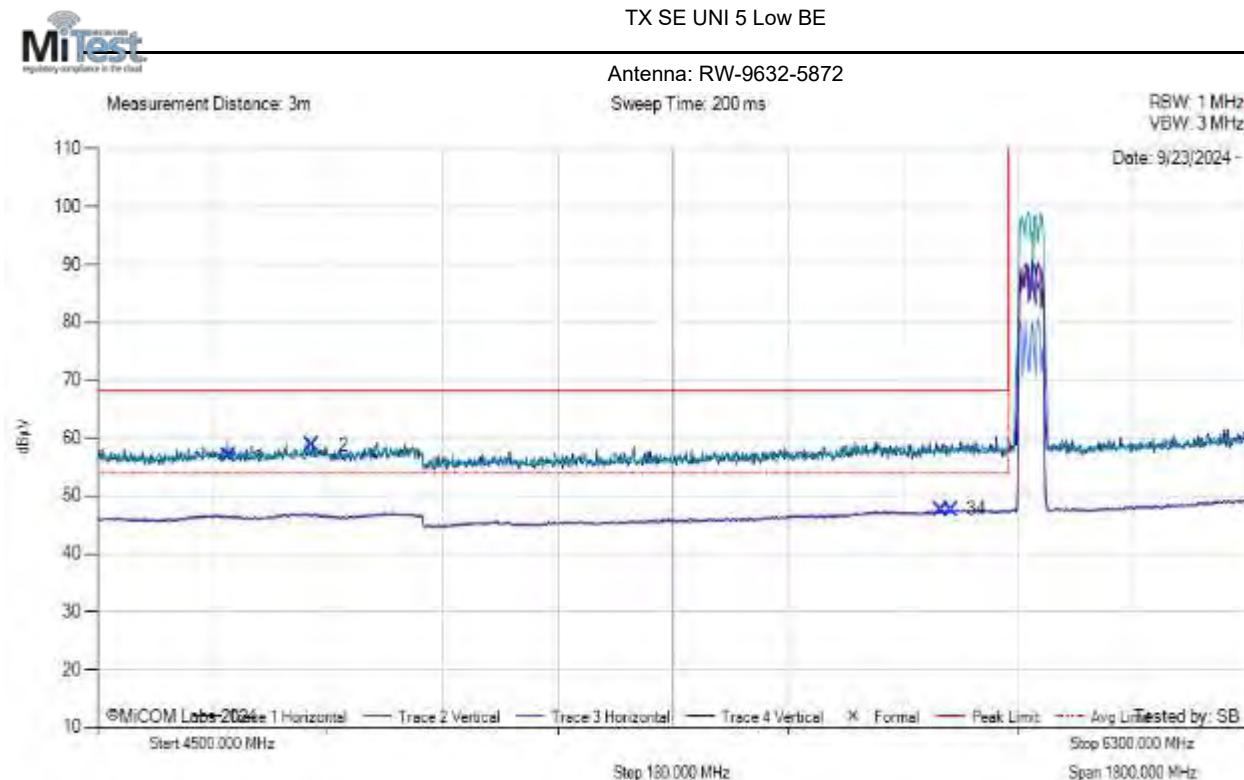
**Test Notes:** 120VAC POE, 6415 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 2

### 9.5.1.2.2.2. 40MHz

#### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5960 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

#### Test Measurement Results



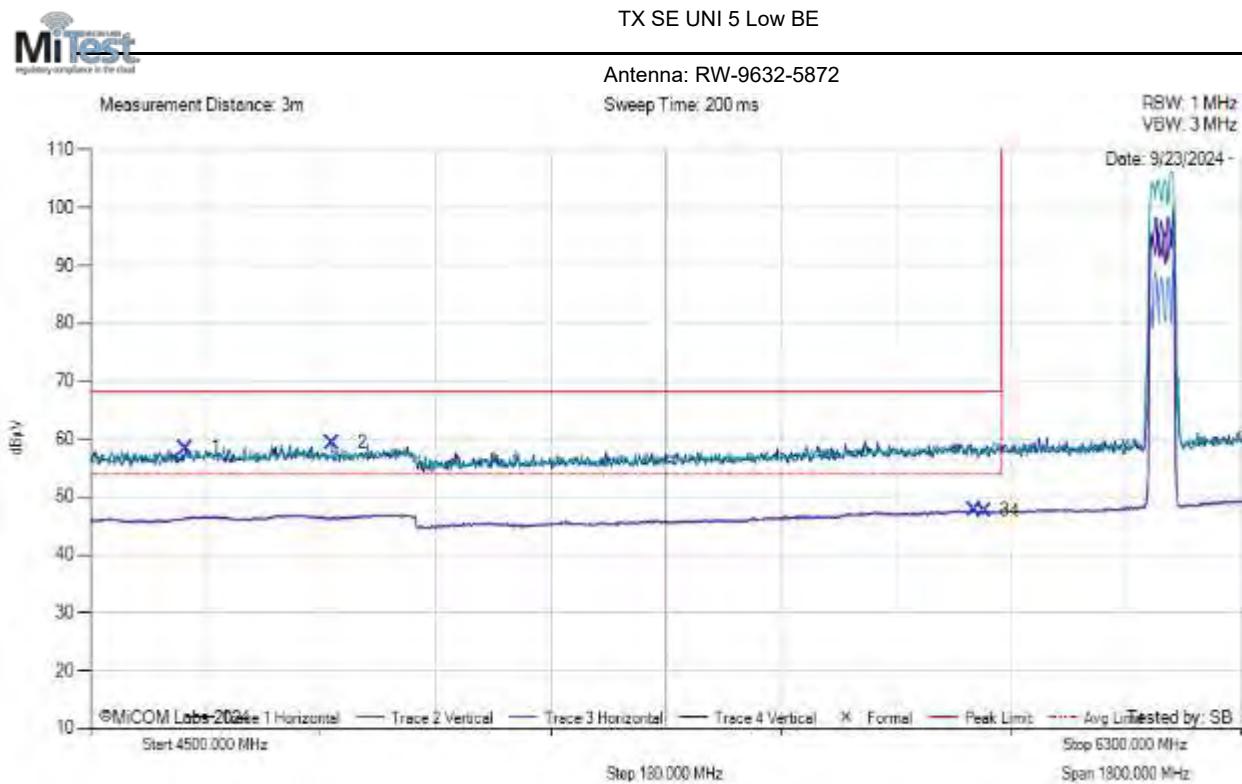
4500.00 - 6300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4705.20	30.02	2.81	34.03	56.85	MaxP	Vertical	199	29	68.2	-11.4	Pass
2	4836.60	31.92	2.93	34.00	58.85	MaxP	Horizontal	199	120	68.2	-9.4	Pass
3	5819.40	19.51	3.22	34.89	47.62	AVG	Horizontal	100	90	54.0	-6.4	Pass
4	5835.60	19.49	3.22	34.93	47.63	AVG	Vertical	100	0	54.0	-6.4	Pass

**Test Notes:** 120VAC POE, 5960 MHz, RW-9632-5872 Antenna, 40MHz BW, PS 5.5

Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	1.5	<b>Tested By:</b>	SB

Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4649.40	31.55	2.85	34.01	58.41	MaxP	Horizontal	149	150	68.2	-9.8	Pass	
2	4878.00	32.56	2.84	34.01	59.40	MaxP	Vertical	99	29	68.2	-8.8	Pass	
3	5882.40	19.58	3.20	35.02	47.79	AVG	Vertical	149	89	54.0	-6.2	Pass	
4	5898.60	19.26	3.23	35.04	47.54	AVG	Horizontal	99	150	54.0	-6.5	Pass	

**Test Notes:** 120VAC POE, 6175 MHz, RW-9632-5872 Antenna, 40MHz BW, PS 1.5

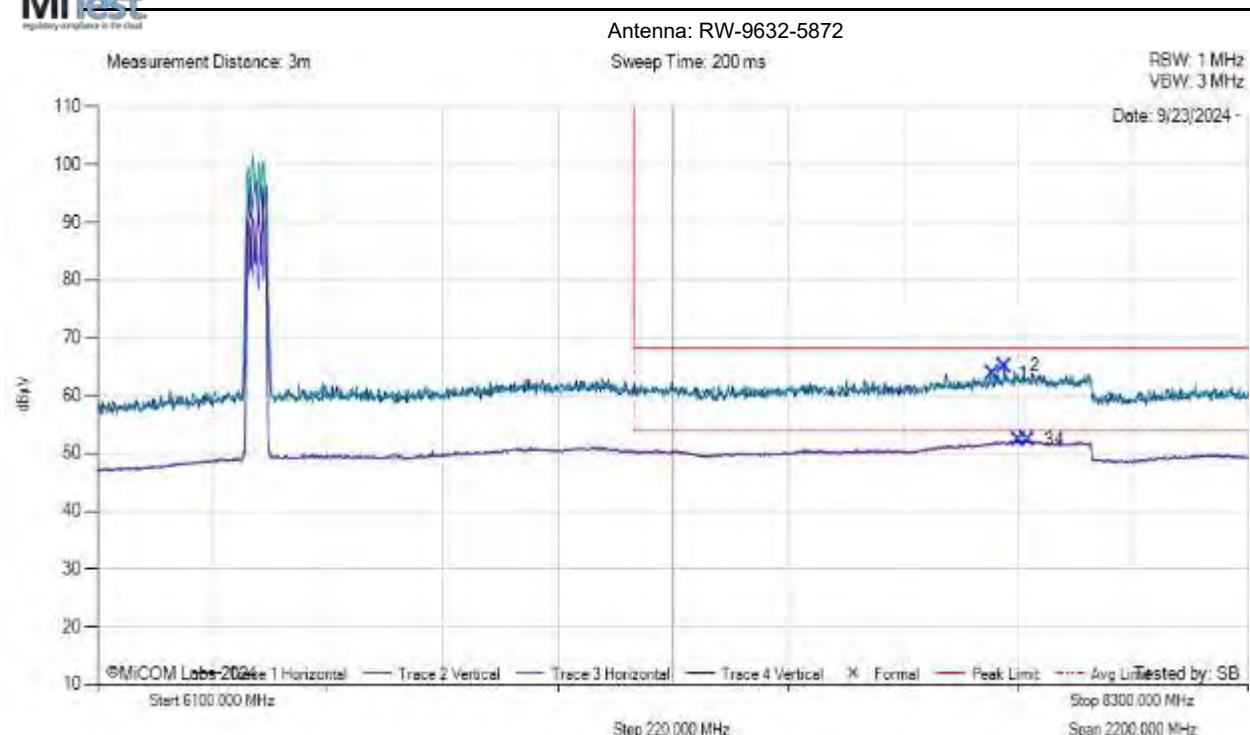
Equipment Configuration for TX SE UNI 5 HIGH BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6405 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	2.0	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 High BE



6100.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7811.60	34.25	3.69	35.87	63.81	MaxP	Vertical	149	150	68.2	-4.4	Pass
2	7833.60	35.45	3.81	35.88	65.13	MaxP	Horizontal	199	120	68.2	-3.1	Pass
3	7860.00	22.64	3.87	35.88	52.39	AVG	Horizontal	149	60	54.0	-1.6	Pass
4	7879.80	22.58	3.91	35.88	52.36	AVG	Vertical	149	59	54.0	-1.6	Pass

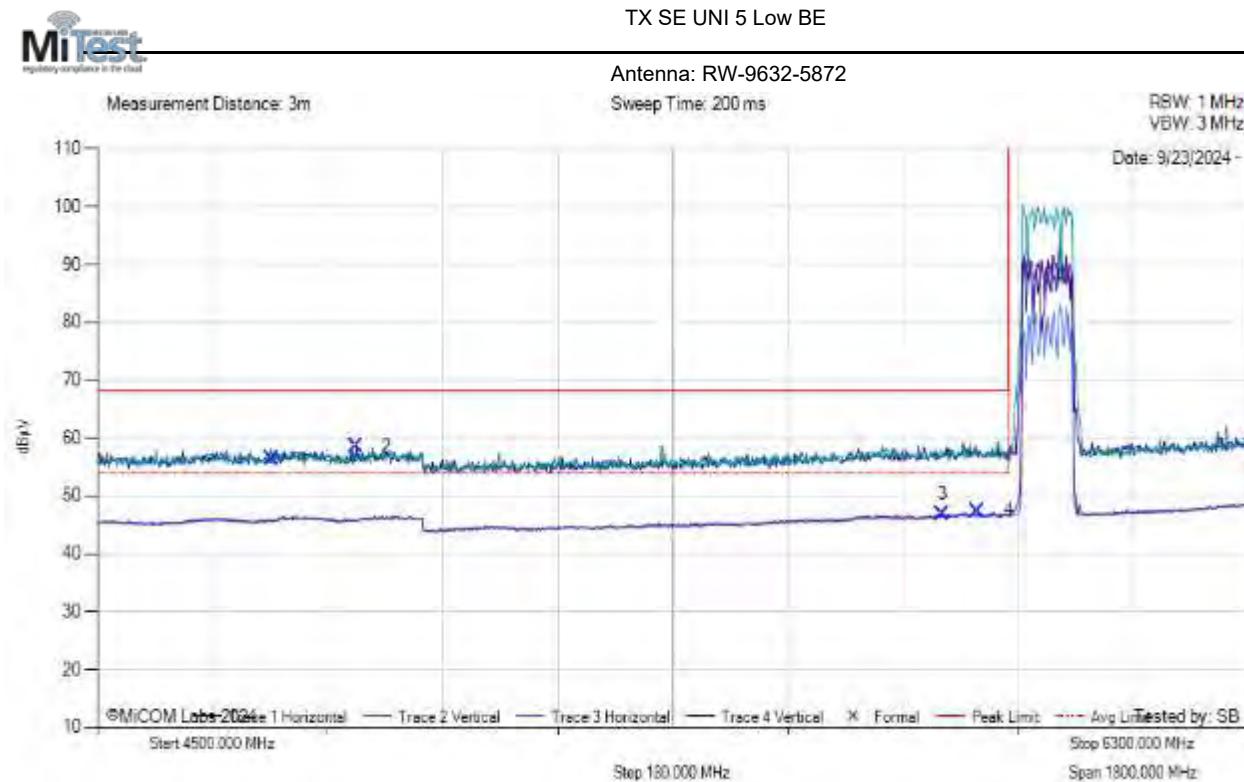
Test Notes: 120VAC POE, 6405 MHz, RW-9632-5872 Antenna, 40MHz BW, PS 2

### 9.5.1.2.2.3. 80MHz

#### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5985 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	2.0	<b>Tested By:</b>	SB

#### Test Measurement Results



4500.00 - 6300.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	4773.60	29.51	2.83	34.01	56.36	MaxP	Vertical	199	59	68.2	-11.9	Pass	
2	4905.00	31.72	2.88	34.01	58.61	MaxP	Horizontal	199	150	68.2	-9.6	Pass	
3	5821.20	18.69	3.23	34.89	46.81	AVG	Horizontal	99	150	54.0	-7.2	Pass	
4	5877.00	19.14	3.22	35.01	47.36	AVG	Vertical	149	89	54.0	-6.6	Pass	

**Test Notes:** 120VAC POE, 5985 MHz, RW-9632-5872 Antenna, 80MHz BW, PS 2

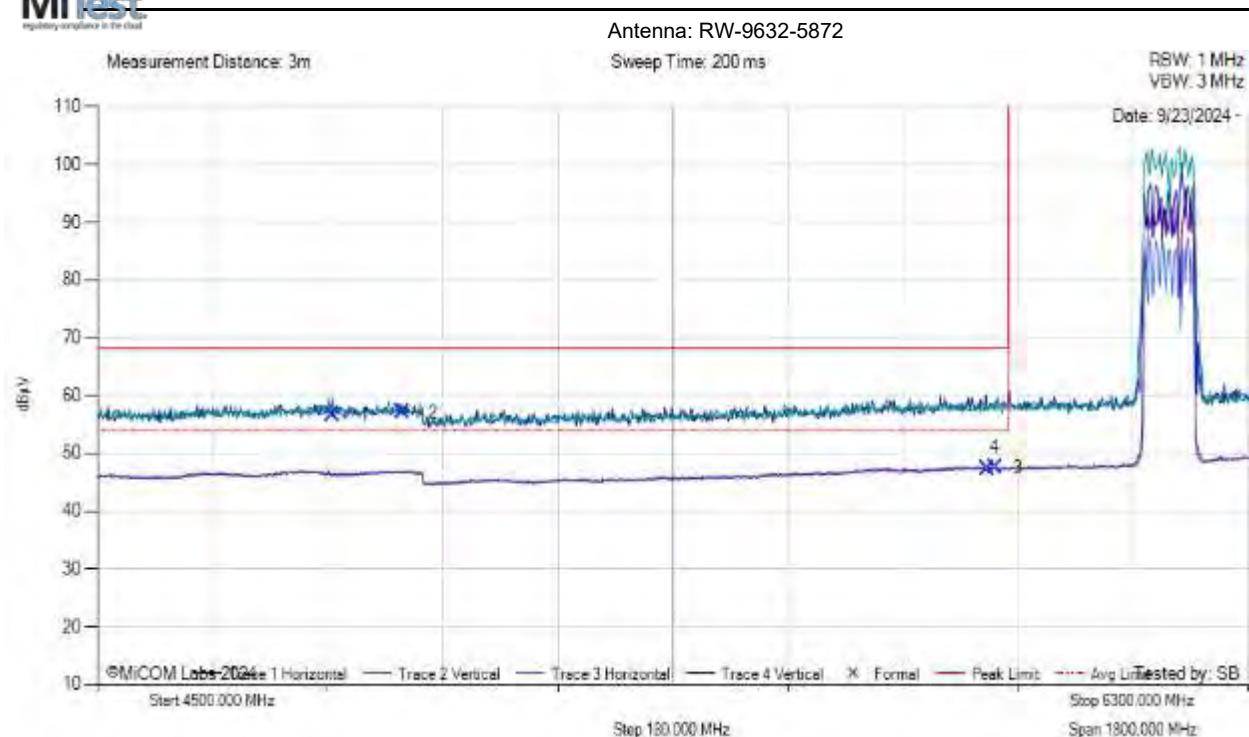
**Equipment Configuration for TX SE UNI 5 LOW BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	2	<b>Tested By:</b>	SB

**Test Measurement Results**



TX SE UNI 5 Low BE



4500.00 - 6300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4869.00	29.71	2.86	34.00	56.57	MaxP	Vertical	100	0	68.2	-11.7	Pass
2	4977.00	30.23	2.94	34.02	57.18	MaxP	Horizontal	149	30	68.2	-11.0	Pass
3	5891.40	19.21	3.19	35.03	47.44	AVG	Horizontal	149	90	54.0	-6.6	Pass
4	5904.00	19.29	3.20	35.06	47.55	AVG	Vertical	149	90	54.0	-6.4	Pass

**Test Notes:** 120VAC POE, 6175 MHz, RW-9632-5872 Antenna, 80MHz BW, PS 2

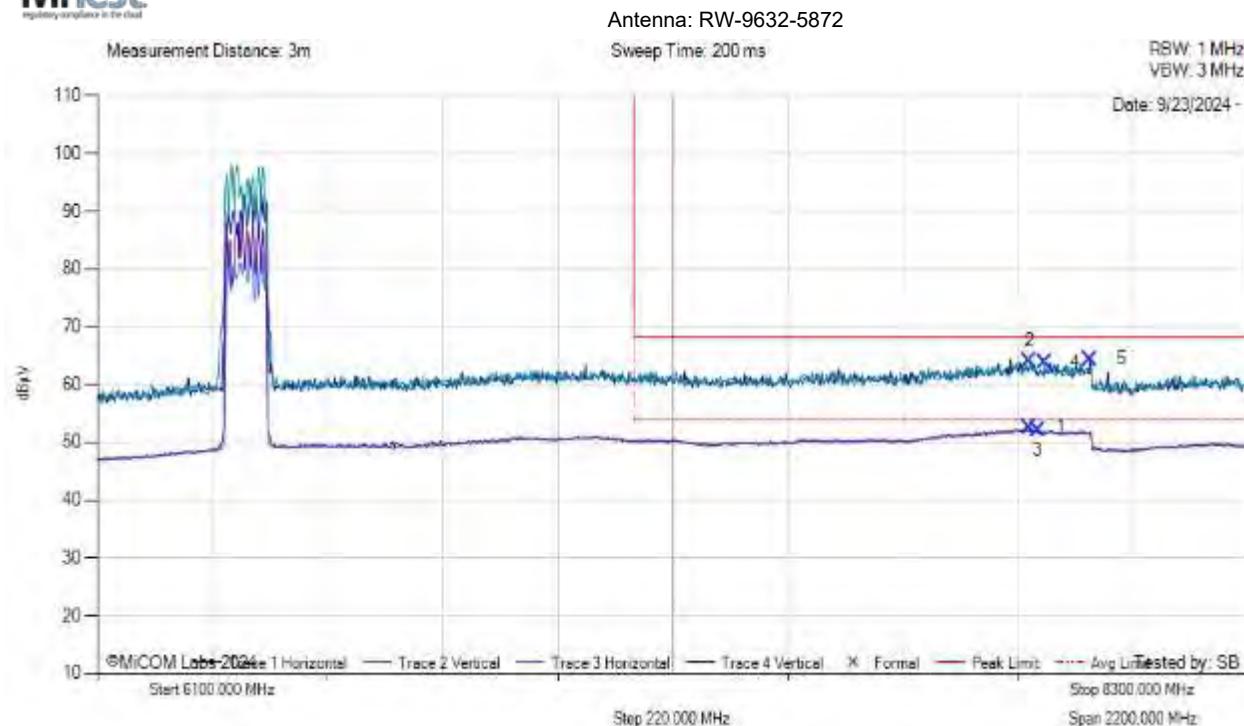
Equipment Configuration for TX SE UNI 5 HIGH BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6385 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	2	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 High BE



6100.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7882.00	22.74	3.89	35.88	52.51	AVG	Horizontal	199	30	54.0	-1.5	Pass
2	7882.00	34.30	3.89	35.88	64.07	MaxP	Vertical	100	0	68.2	-4.2	Pass
3	7897.40	22.53	3.76	35.88	52.17	AVG	Vertical	100	0	54.0	-1.8	Pass
4	7910.60	34.26	3.74	35.88	63.88	MaxP	Vertical	149	29	68.2	-4.4	Pass
5	7998.60	34.76	3.81	35.85	64.43	MaxP	Horizontal	100	-1	68.2	-3.8	Pass

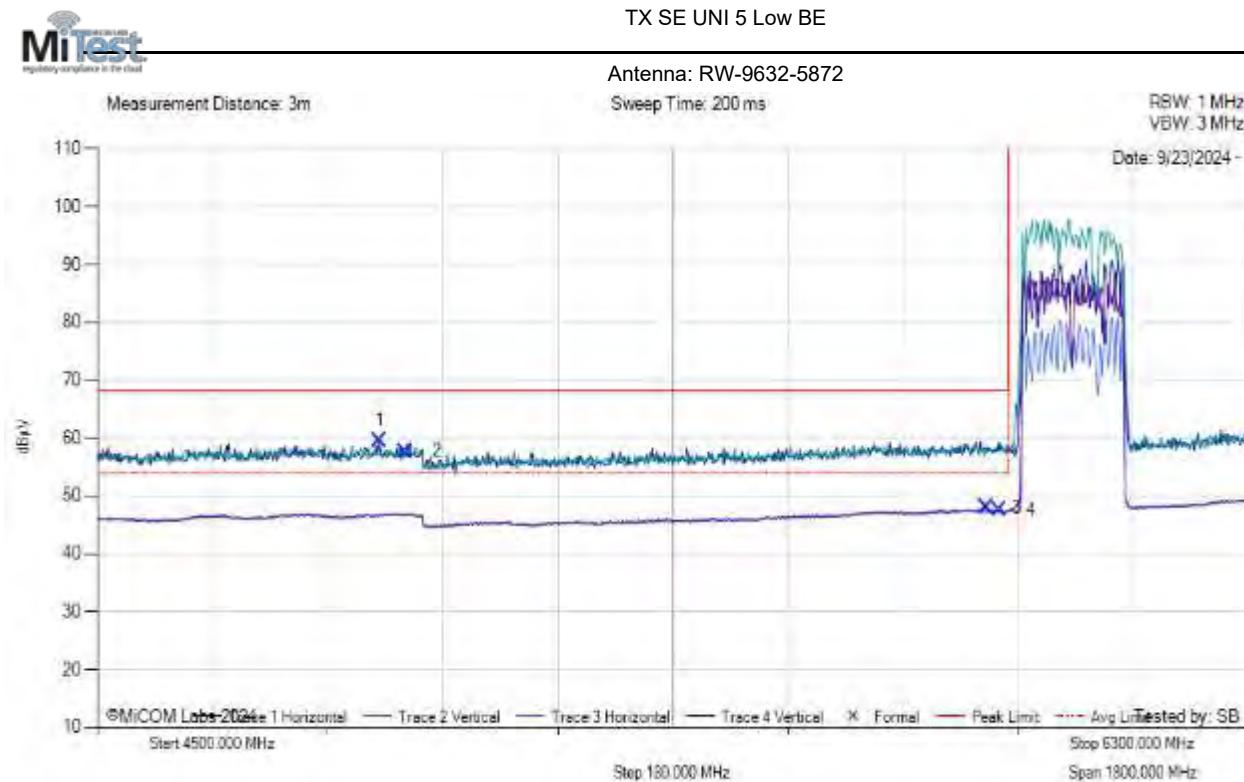
Test Notes: 120VAC POE, 6385 MHz, RW-9632-5872 Antenna, 80MHz BW, PS 2

#### 9.5.1.2.2.4. 160MHz

##### Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6025 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	3.5	<b>Tested By:</b>	SB

##### Test Measurement Results



4500.00 - 6300.00 MHz												
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	4941.00	32.56	2.89	34.01	59.46	MaxP	Horizontal	149	150	68.2	-8.8	Pass
2	4982.40	30.69	2.99	34.02	57.69	MaxP	Vertical	149	150	68.2	-10.5	Pass
3	5889.60	19.80	3.18	35.03	48.01	AVG	Vertical	149	89	54.0	-6.0	Pass
4	5911.20	19.24	3.18	35.07	47.49	AVG	Horizontal	100	60	54.0	-6.5	Pass

**Test Notes:** 120VAC POE, 6025 MHz, RW-9632-5872 Antenna, 160MHz BW, PS 3.5

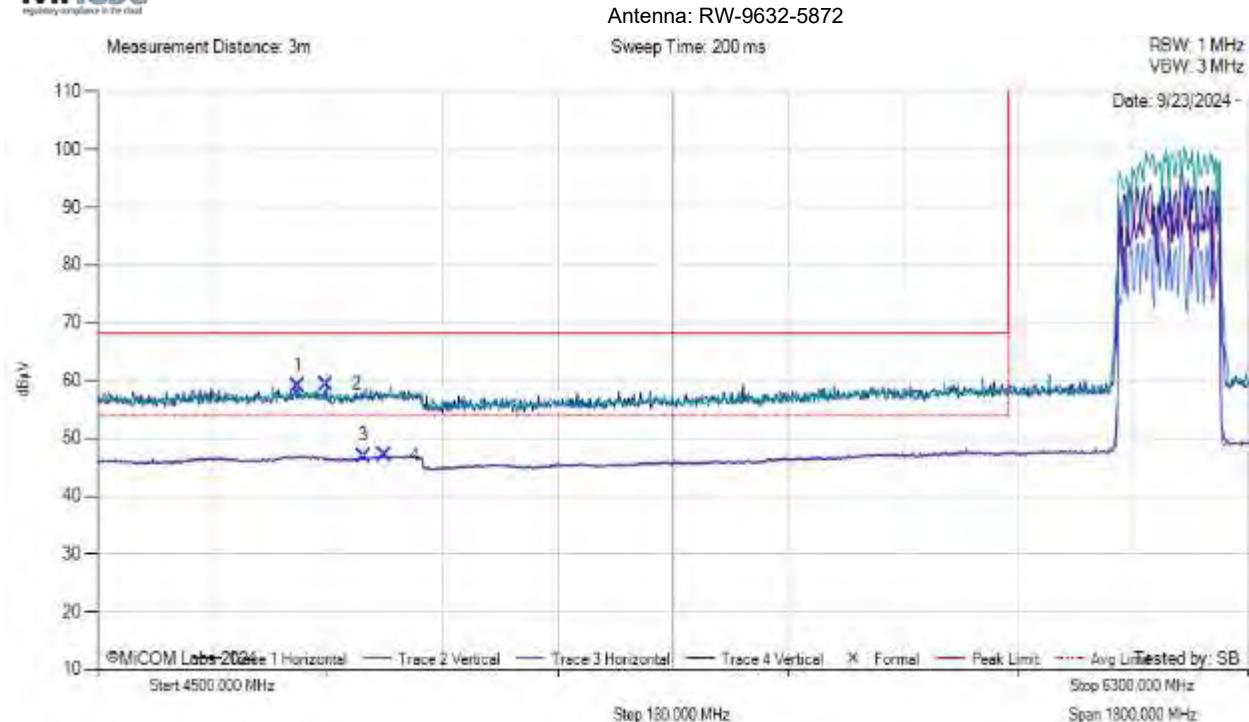
Equipment Configuration for TX SE UNI 5 LOW BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6175 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Low BE



4500.00 - 6300.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4813.20	32.10	2.87	34.00	58.97	MaxP	Horizontal	199	90	68.2	-9.3	Pass
2	4858.20	32.46	2.89	34.00	59.35	MaxP	Vertical	100	119	68.2	-8.9	Pass
3	4915.80	19.90	3.01	34.01	46.92	AVG	Vertical	199	0	54.0	-7.1	Pass
4	4948.20	20.19	2.88	34.01	47.08	AVG	Horizontal	199	0	54.0	-6.9	Pass

**Test Notes:** 120VAC POE, 6175 MHz, RW-9632-5872 Antenna, 160MHz BW, PS 0.5

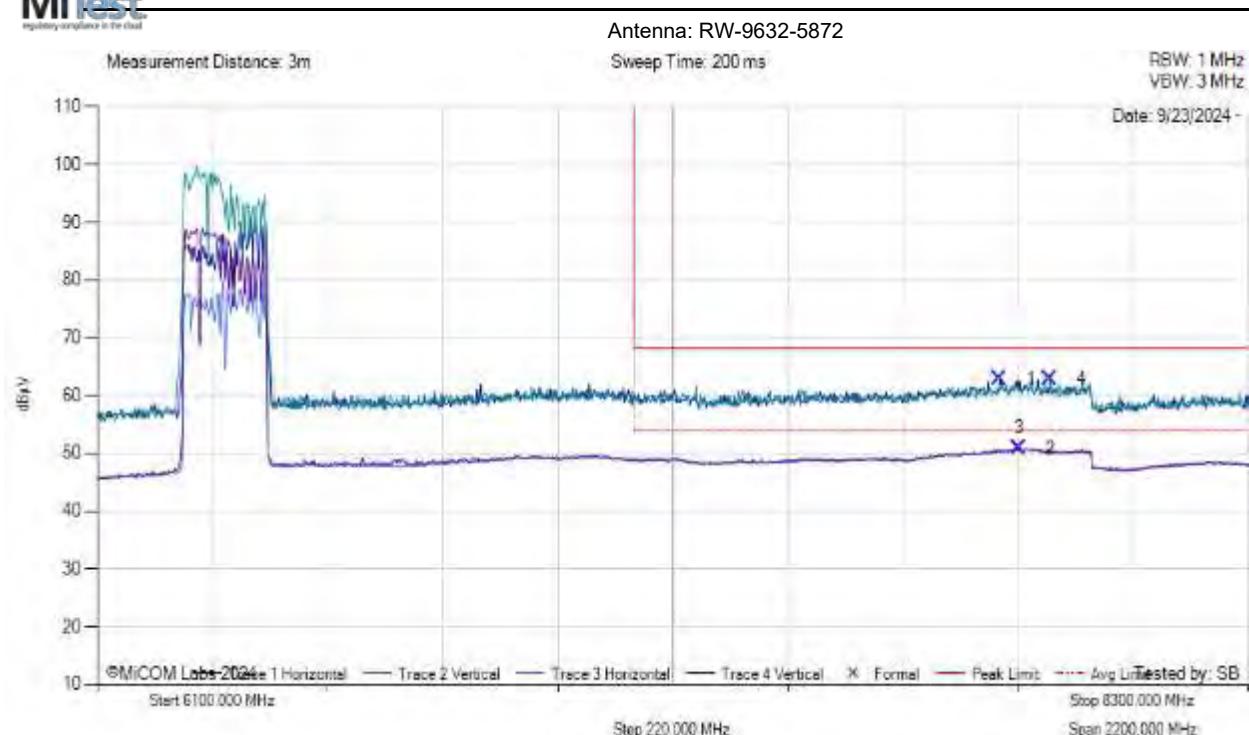
**Equipment Configuration for TX SE UNI 5 HIGH BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6345 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

**Test Measurement Results**



TX SE UNI 5 High BE



6100.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	7824.80	33.19	3.83	35.87	62.89	MaxP	Horizontal	99	150	68.2	-5.3	Pass
2	7862.20	21.18	3.84	35.88	50.90	AVG	Horizontal	199	90	54.0	-3.1	Pass
3	7862.20	21.14	3.84	35.88	50.85	AVG	Vertical	101	0	54.0	-3.1	Pass
4	7921.60	33.18	3.75	35.88	62.81	MaxP	Vertical	149	29	68.2	-5.4	Pass

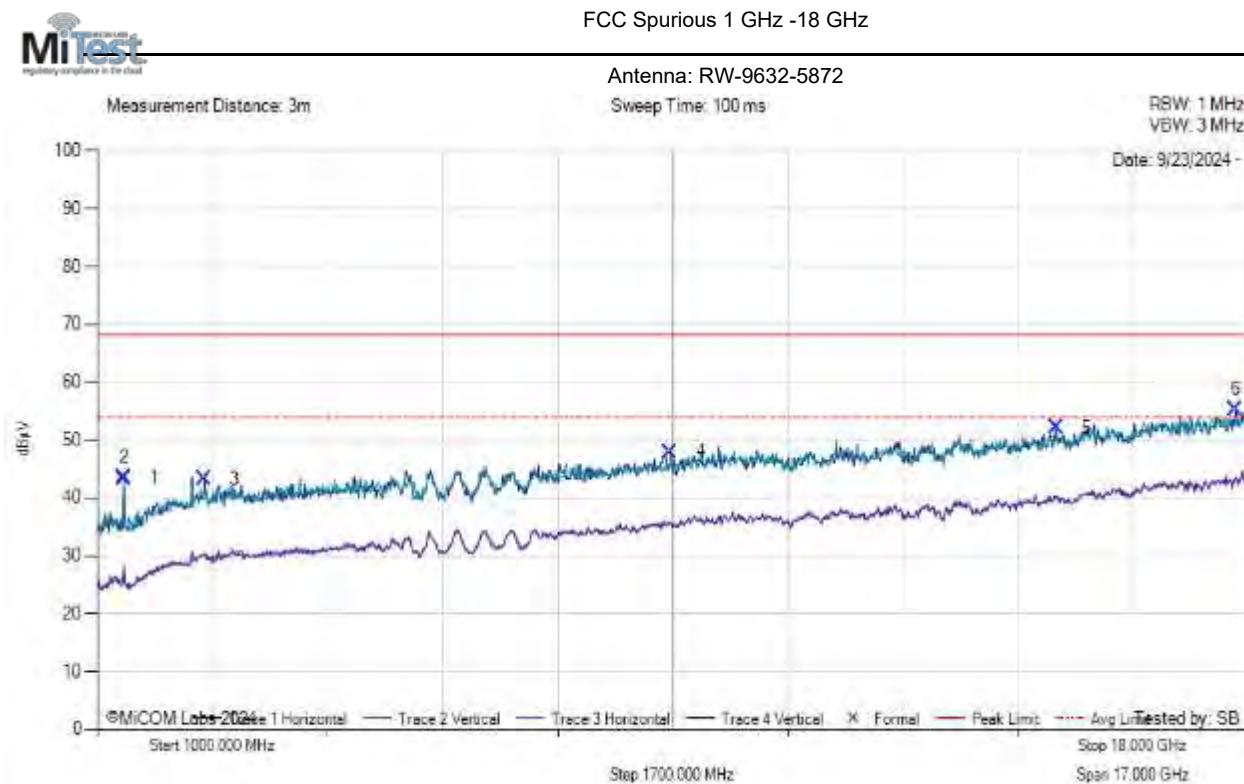
**Test Notes:** 120VAC POE, 6345 MHz, RW-9632-5872 Antenna, 160MHz BW, PS 0.5

### 9.5.1.2.3. Spurious Emissions 6525-6875MHz

#### Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6535 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

#### Test Measurement Results



1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	1391.00	58.56	1.51	28.57	43.53	MaxP	Vertical	149	300	68.2	-24.7	Pass	
2	1391.00	58.42	1.51	28.57	43.40	MaxP	Horizontal	149	300	68.2	-24.8	Pass	
3	2581.00	52.90	2.04	32.53	43.35	MaxP	Horizontal	99	180	68.2	-24.9	Pass	
4	9466.00	50.38	4.39	36.50	47.94	MaxP	Vertical	99	179	68.2	-20.3	Pass	
5	15161.00	50.33	5.54	39.79	52.13	MaxP	Vertical	99	179	68.2	-16.1	Pass	
6	17813.00	48.18	6.27	41.66	55.32	MaxP	Horizontal	149	300	68.2	-12.9	Pass	

**Test Notes:** 120VAC POE, 6535 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

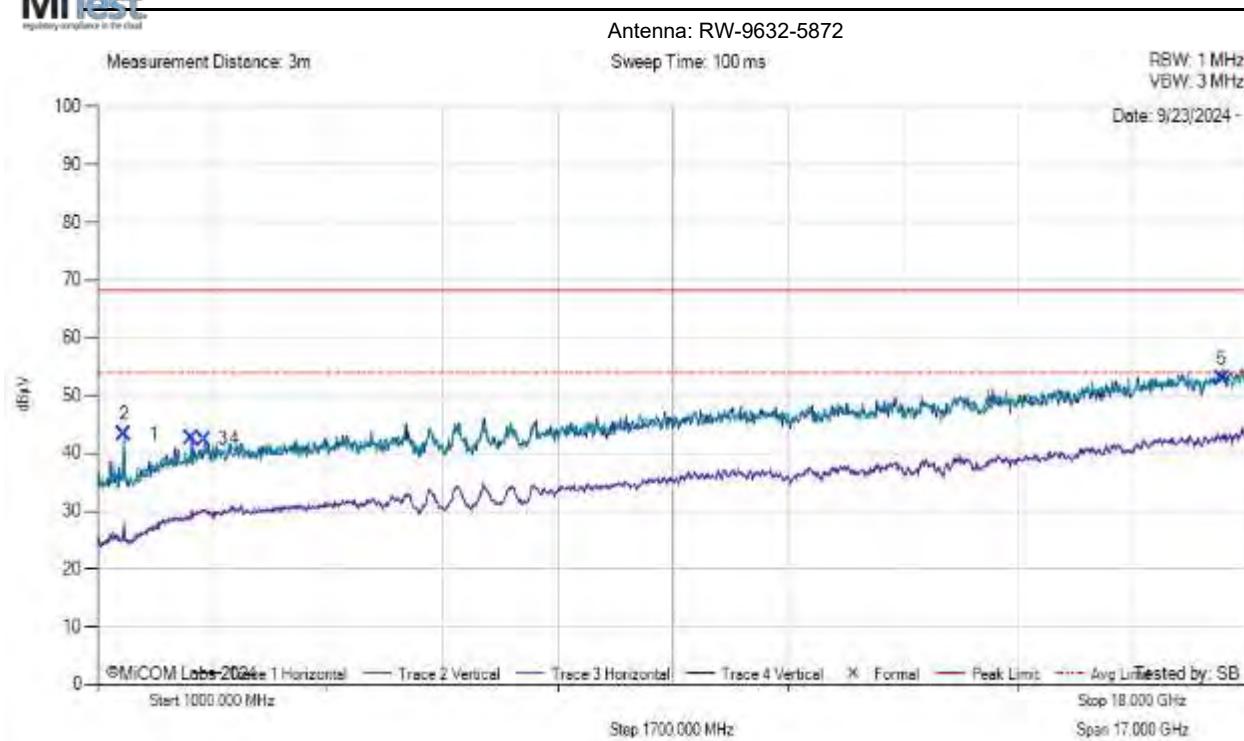
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1391.00	58.32	1.51	28.57	43.29	MaxP	Vertical	149	300	68.2	-24.9	Pass
2	1391.00	58.29	1.51	28.57	43.26	MaxP	Horizontal	149	300	68.2	-25.0	Pass
3	2394.00	52.72	1.96	32.16	42.51	MaxP	Vertical	100	239	68.2	-25.7	Pass
4	2581.00	51.99	2.04	32.53	42.44	MaxP	Vertical	149	239	68.2	-25.8	Pass
5	17609.00	46.84	6.27	41.65	52.81	MaxP	Vertical	149	300	68.2	-15.4	Pass

Test Notes: 120VAC POE, 6700 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

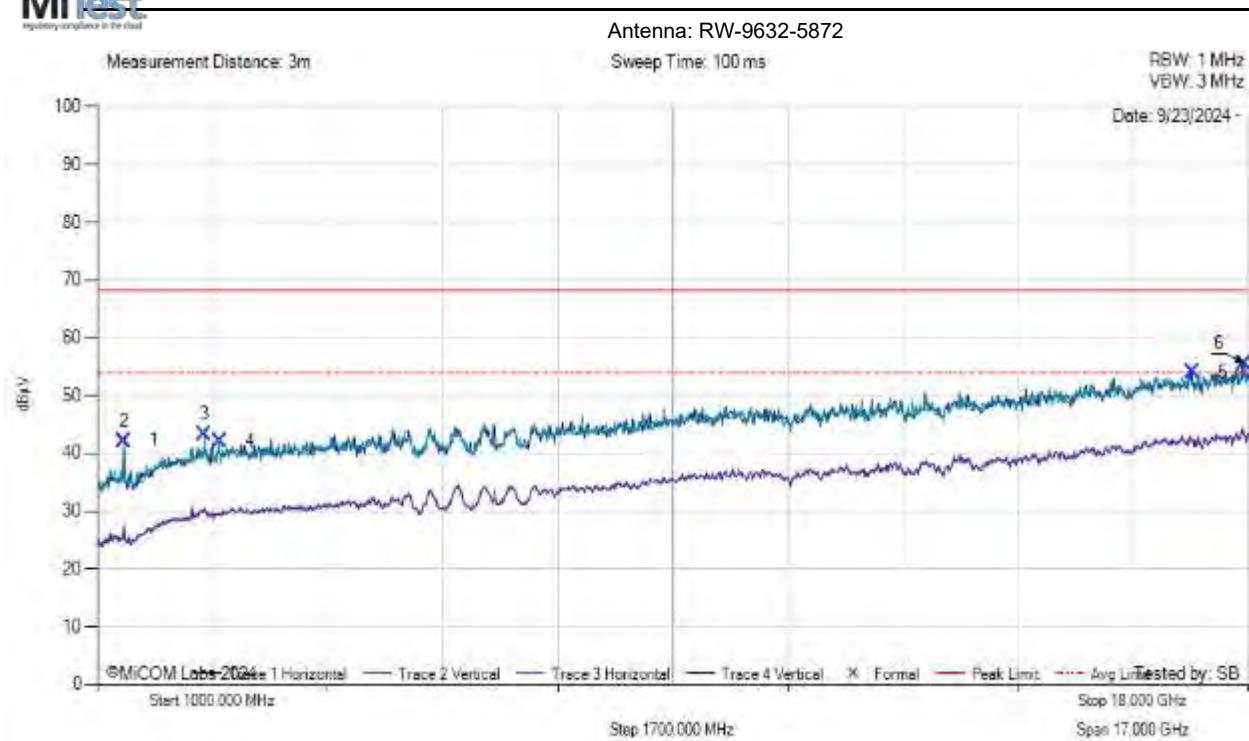
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	6865 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1391.00	57.25	1.51	28.57	42.22	MaxP	Vertical	149	300	68.2	-26.0	Pass
2	1391.00	57.18	1.51	28.57	42.15	MaxP	Horizontal	149	300	68.2	-26.1	Pass
3	2581.00	52.78	2.04	32.53	43.23	MaxP	Vertical	100	239	68.2	-25.0	Pass
4	2802.00	51.77	2.12	32.50	42.14	MaxP	Vertical	149	239	68.2	-26.1	Pass
5	17167.00	48.06	6.10	41.36	54.03	MaxP	Horizontal	100	60	68.2	-14.2	Pass
6	17949.00	48.95	6.28	41.52	55.47	MaxP	Vertical	100	179	68.2	-12.8	Pass

**Test Notes:** 120VAC POE, 6865 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

#### 9.5.1.2.4. Band Edge 5925-7125 MHz

##### 9.5.1.2.4.1. 20MHz

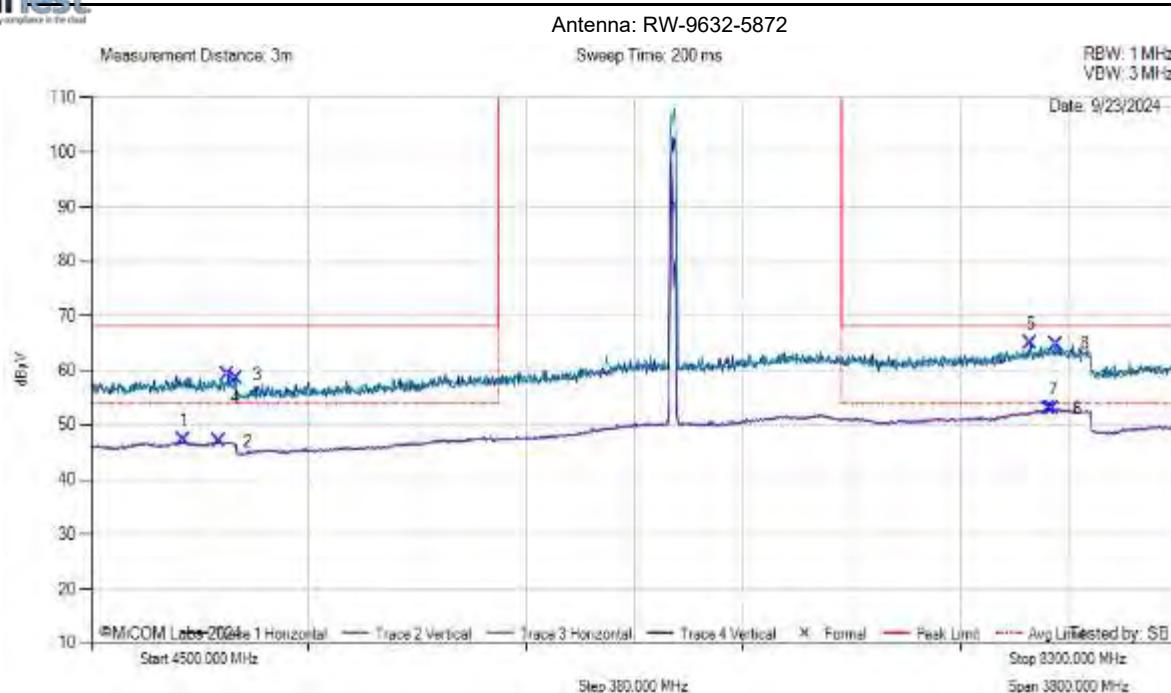
###### Equipment Configuration for TX SE UNI 5 FULL BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6535 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

###### Test Measurement Results



###### TX SE UNI 5 Full BE



###### 4500.00 - 8300.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4823.00	20.40	2.89	34.00	47.29	AVG	Horizontal	199	30	54.0	-6.7	Pass
2	4948.40	20.18	2.88	34.01	47.07	AVG	Vertical	149	150	54.0	-6.9	Pass
3	4978.80	32.25	2.94	34.02	59.21	MaxP	Horizontal	149	90	68.2	-9.0	Pass
4	5005.40	31.60	2.94	34.02	58.56	MaxP	Vertical	199	29	68.2	-9.7	Pass
5	7787.00	35.51	3.67	35.87	65.04	MaxP	Horizontal	149	150	68.2	-3.2	Pass
6	7851.60	23.28	3.93	35.88	53.09	AVG	Horizontal	149	150	54.0	-0.9	Pass
7	7863.00	23.37	3.82	35.88	53.07	AVG	Vertical	149	0	54.0	-0.9	Pass
8	7874.40	35.10	3.92	35.88	64.90	MaxP	Vertical	199	29	68.2	-3.3	Pass

**Test Notes:** 120VAC POE, 6535 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

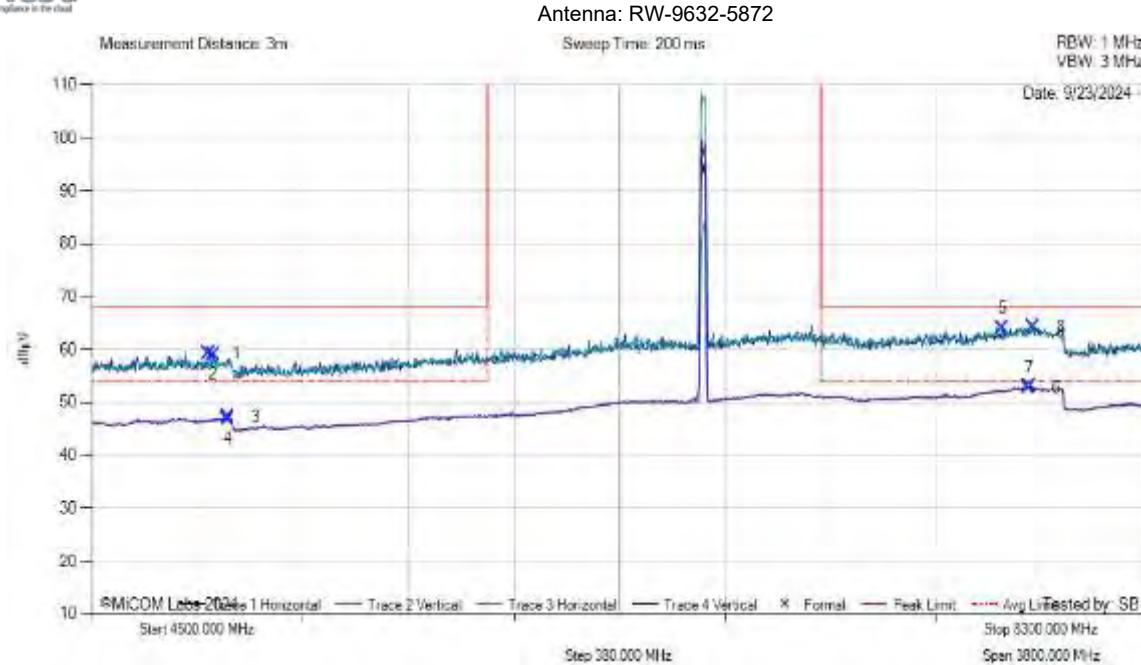
**Equipment Configuration for TX SE UNI 5 FULL BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	5.5	<b>Tested By:</b>	SB

**Test Measurement Results**



**TX SE UNI 5 Full BE**



**4500.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	4921.80	32.32	2.95	34.01	59.28	MaxP	Vertical	149	59	68.2	-9.0	Pass
2	4937.00	32.12	2.90	34.01	59.03	MaxP	Horizontal	199	120	68.2	-9.2	Pass
3	4990.20	20.10	3.11	34.02	47.23	AVG	Vertical	101	89	54.0	-6.8	Pass
4	4990.20	19.73	3.11	34.02	46.86	AVG	Horizontal	199	150	54.0	-7.1	Pass
5	7779.40	34.68	3.67	35.87	64.22	MaxP	Horizontal	101	120	68.2	-4.0	Pass
6	7870.60	23.09	3.87	35.88	52.85	AVG	Vertical	149	0	54.0	-1.2	Pass
7	7874.40	23.17	3.92	35.88	52.97	AVG	Horizontal	149	60	54.0	-1.0	Pass
8	7889.60	34.63	3.83	35.88	64.35	MaxP	Vertical	101	150	68.2	-3.9	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 5.5

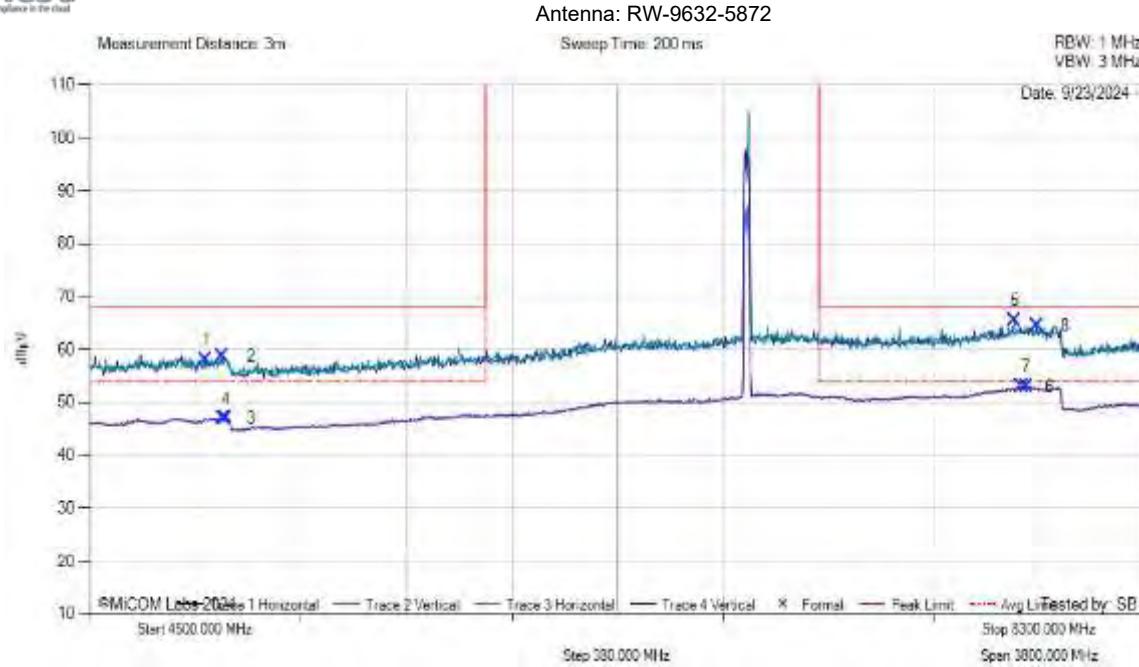
**Equipment Configuration for TX SE UNI 5 FULL BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6865 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

**Test Measurement Results**



TX SE UNI 5 Full BE



**4500.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	4918.00	31.16	2.99	34.01	58.16	MaxP	Horizontal	199	150	68.2	-10.1	Pass
2	4978.80	31.77	2.94	34.02	58.72	MaxP	Vertical	149	119	68.2	-9.5	Pass
3	4982.60	19.97	2.99	34.02	46.98	AVG	Vertical	101	0	54.0	-7.0	Pass
4	4990.20	19.85	3.11	34.02	46.98	AVG	Horizontal	149	120	54.0	-7.0	Pass
5	7828.80	35.89	3.82	35.88	65.58	MaxP	Vertical	199	150	68.2	-2.7	Pass
6	7855.40	23.21	3.93	35.88	53.02	AVG	Vertical	149	59	54.0	-1.0	Pass
7	7870.60	23.42	3.87	35.88	53.17	AVG	Horizontal	149	120	54.0	-0.8	Pass
8	7908.60	34.88	3.74	35.88	64.49	MaxP	Horizontal	149	90	68.2	-3.7	Pass

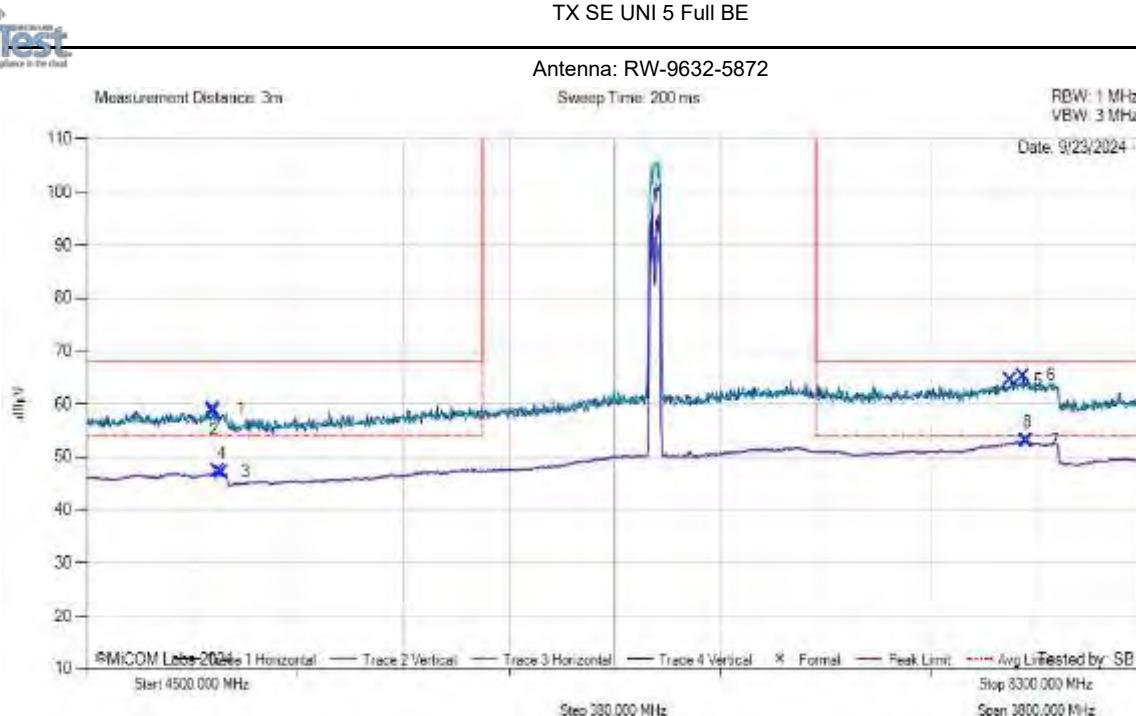
**Test Notes:** 120VAC POE, 6865 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 0.5

### 9.5.1.2.4.2. 40MHz

#### Equipment Configuration for TX SE UNI 5 FULL BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6545 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

#### Test Measurement Results



4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4956.00	32.19	2.89	34.01	59.09	MaxP	Vertical	149	0	68.2	-9.1	Pass
2	4956.00	31.72	2.89	34.01	58.62	MaxP	Horizontal	101	120	68.2	-9.6	Pass
3	4971.20	20.28	2.94	34.01	47.23	AVG	Horizontal	101	30	54.0	-6.8	Pass
4	4986.40	19.98	3.06	34.02	47.05	AVG	Vertical	101	119	54.0	-6.9	Pass
5	7825.00	34.86	3.83	35.87	64.56	MaxP	Vertical	101	29	68.2	-3.7	Pass
6	7870.60	35.64	3.87	35.88	65.39	MaxP	Horizontal	149	0	68.2	-2.8	Pass
7	7882.00	23.36	3.89	35.88	53.13	AVG	Horizontal	149	30	54.0	-0.9	Pass
8	7885.80	23.29	3.86	35.88	53.03	AVG	Vertical	149	89	54.0	-1.0	Pass

**Test Notes:** 120VAC POE, 6545 MHz, RW-9632-5872 Antenna, 40MHz BW, PS 0.5

**Equipment Configuration for TX SE UNI 5 FULL BE**

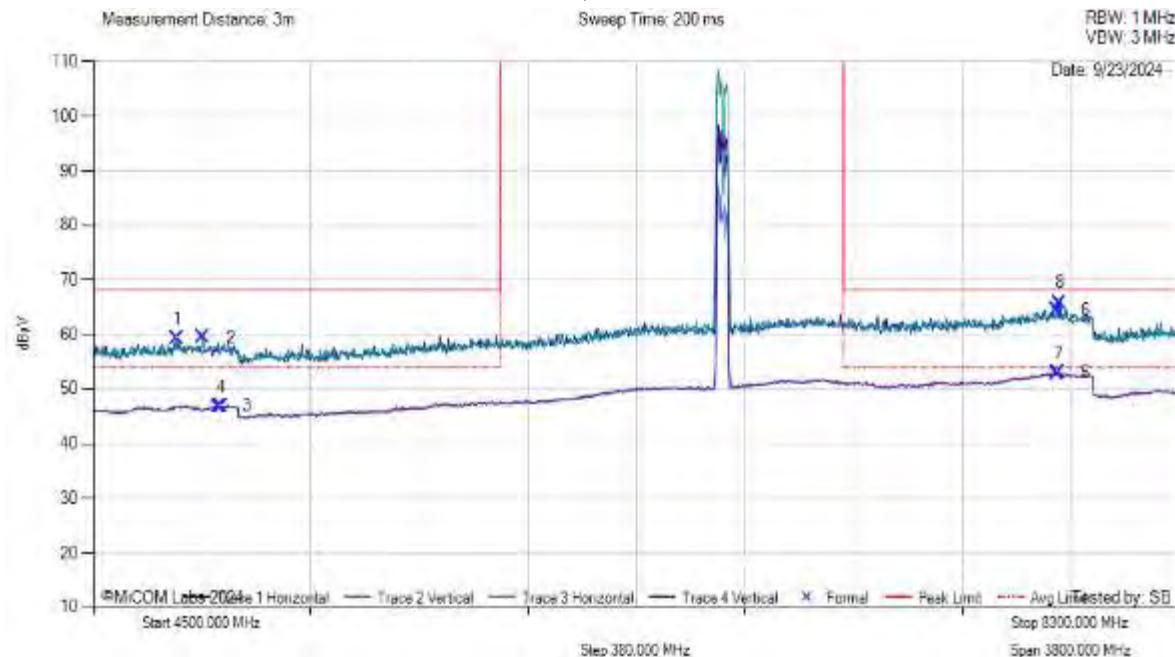
<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

**Test Measurement Results**



TX SE UNI 5 Full BE

Variant: , Test Freq: 0.00 MHz, Antenna: RW-9632-5872



**4500.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4792.60	32.36	2.90	34.00	59.27	MaxP	Horizontal	199	60	68.2	-9.0	Pass
2	4883.80	32.68	2.84	34.01	59.52	MaxP	Vertical	199	0	68.2	-8.7	Pass
3	4937.00	20.00	2.90	34.01	46.91	AVG	Vertical	149	89	54.0	-7.1	Pass
4	4948.40	19.97	2.88	34.01	46.86	AVG	Horizontal	149	30	54.0	-7.1	Pass
5	7870.60	23.14	3.87	35.88	52.89	AVG	Vertical	199	89	54.0	-1.1	Pass
6	7870.60	34.71	3.87	35.88	64.46	MaxP	Vertical	149	59	68.2	-3.8	Pass
7	7878.20	23.29	3.92	35.88	53.10	AVG	Horizontal	100	30	54.0	-0.9	Pass
8	7882.00	36.08	3.89	35.88	65.85	MaxP	Horizontal	199	60	68.2	-2.4	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9632-5872 Antenna, 40MHz BW, PS 0.5

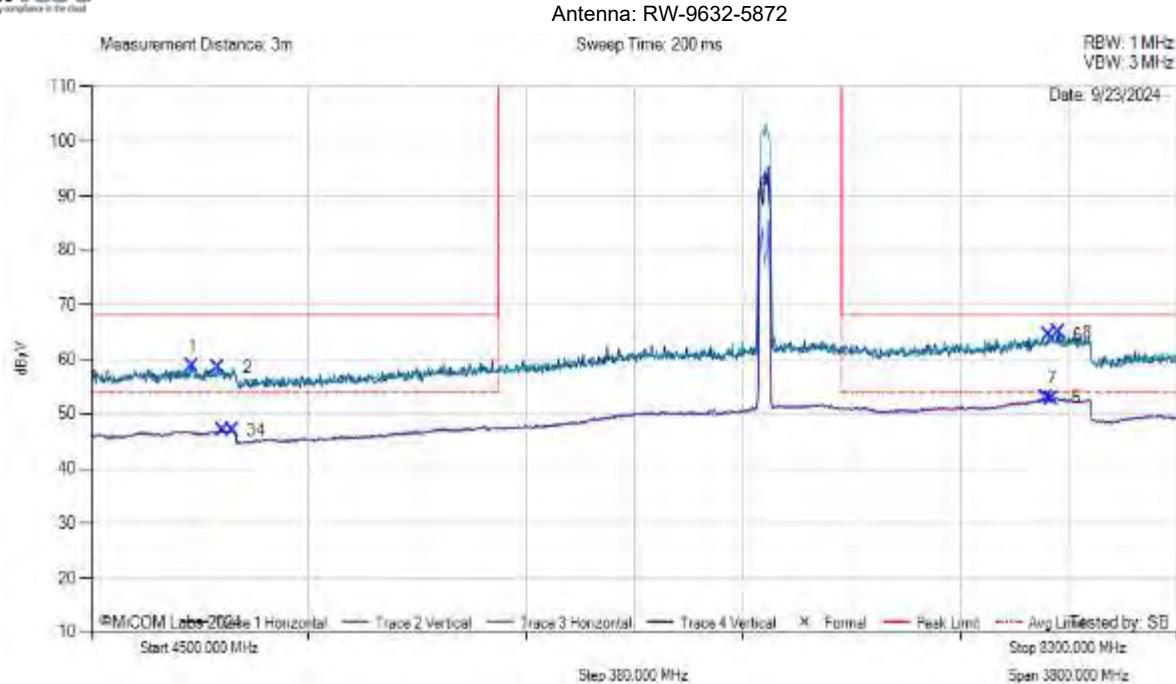
**Equipment Configuration for TX SE UNI 5 FULL BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	40MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6855 MHz	<b>Data Rate:</b>	17.2
<b>Power Setting:</b>	1	<b>Tested By:</b>	SB

**Test Measurement Results**



**TX SE UNI 5 Full BE**



**4500.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4853.40	31.89	2.88	34.00	58.77	MaxP	Horizontal	100	90	68.2	-9.5	Pass
2	4944.60	31.68	2.88	34.01	58.57	MaxP	Vertical	100	29	68.2	-9.7	Pass
3	4959.80	20.11	2.89	34.01	47.02	AVG	Vertical	100	0	54.0	-7.0	Pass
4	4994.00	19.98	3.05	34.02	47.05	AVG	Horizontal	149	0	54.0	-7.0	Pass
5	7844.00	23.31	3.85	35.88	53.04	AVG	Vertical	149	29	54.0	-1.0	Pass
6	7851.60	34.79	3.93	35.88	64.59	MaxP	Vertical	199	59	68.2	-3.6	Pass
7	7859.20	23.15	3.88	35.88	52.91	AVG	Horizontal	199	150	54.0	-1.1	Pass
8	7885.80	35.20	3.86	35.88	64.94	MaxP	Horizontal	149	90	68.2	-3.3	Pass

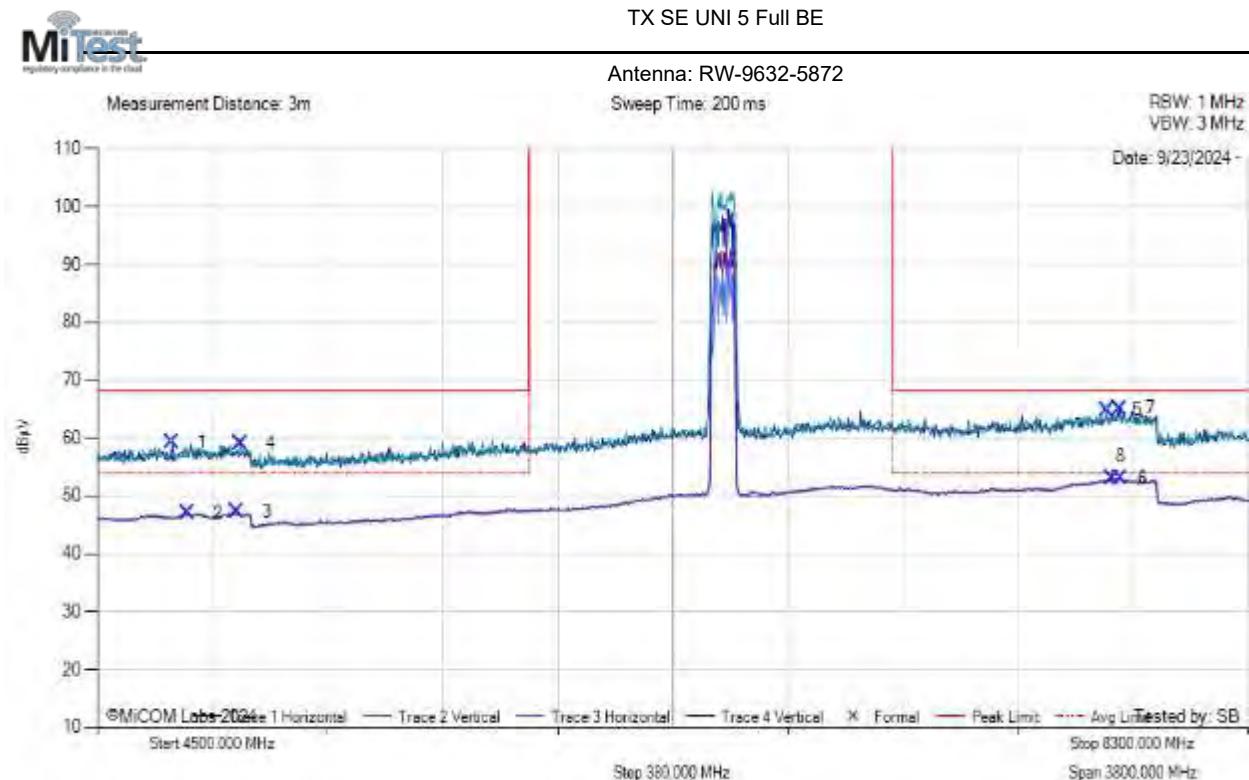
**Test Notes:** 120VAC POE, 6855 MHz, RW-9632-5872 Antenna, 40MHz BW, PS 1

### 9.5.1.2.4.3. 80MHz

#### Equipment Configuration for TX SE UNI 5 FULL BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6565 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	1.5	<b>Tested By:</b>	SB

#### Test Measurement Results



4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4747.00	32.38	2.86	34.02	59.26	MaxP	Horizontal	100	60	68.2	-9.0	Pass
2	4796.40	20.20	2.85	34.00	47.05	AVG	Horizontal	100	150	54.0	-6.9	Pass
3	4959.80	20.33	2.89	34.01	47.24	AVG	Vertical	199	0	54.0	-6.8	Pass
4	4971.20	32.12	2.94	34.01	59.07	MaxP	Vertical	149	0	68.2	-9.2	Pass
5	7832.60	35.22	3.81	35.88	64.91	MaxP	Vertical	100	59	68.2	-3.3	Pass
6	7851.60	23.30	3.93	35.88	53.11	AVG	Vertical	199	59	54.0	-0.9	Pass
7	7874.40	35.37	3.92	35.88	65.17	MaxP	Horizontal	199	120	68.2	-3.1	Pass
8	7878.20	23.36	3.92	35.88	53.16	AVG	Horizontal	199	0	54.0	-0.8	Pass

**Test Notes:** 120VAC POE, 6565 MHz, RW-9632-5872 Antenna, 80MHz BW, PS 1.5

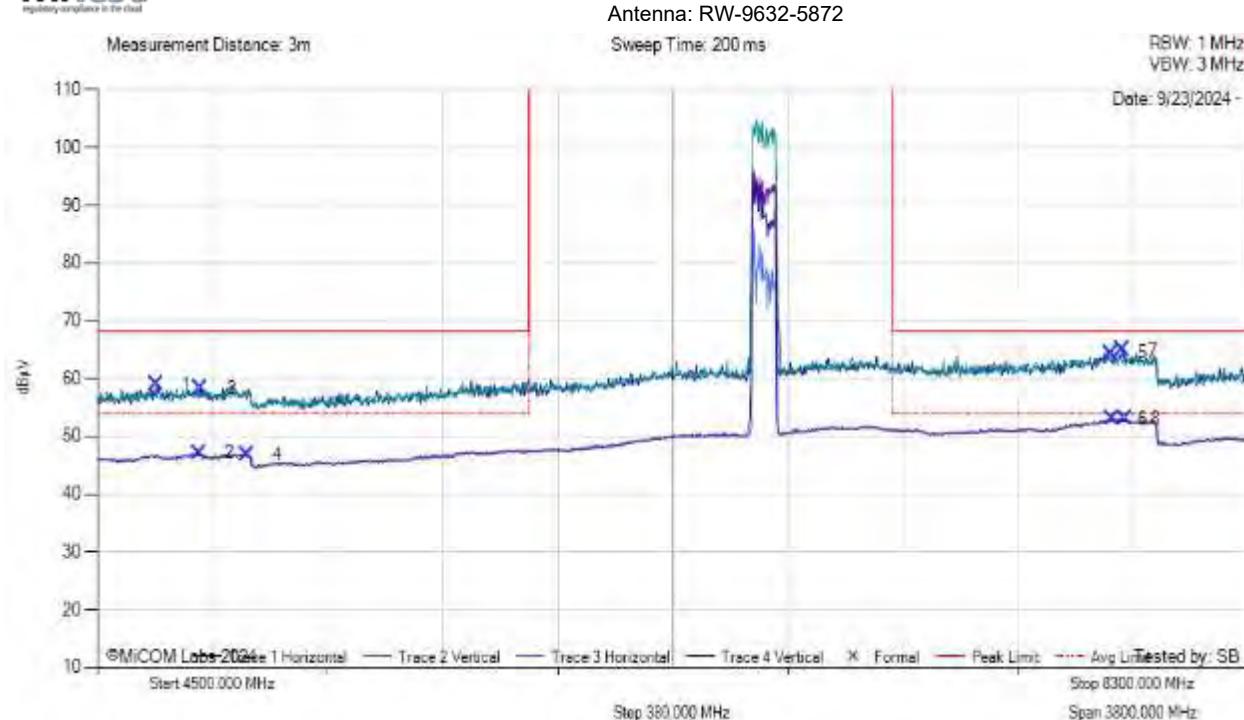
**Equipment Configuration for TX SE UNI 5 FULL BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	1.0	<b>Tested By:</b>	SB

**Test Measurement Results**



**TX SE UNI 5 Full BE**



**4500.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4693.80	32.14	2.83	34.03	58.99	MaxP	Vertical	199	29	68.2	-9.2	Pass
2	4834.40	20.25	2.92	34.00	47.18	AVG	Vertical	100	29	54.0	-6.8	Pass
3	4842.00	31.41	2.92	34.00	58.34	MaxP	Horizontal	149	90	68.2	-9.9	Pass
4	4994.00	19.80	3.05	34.02	46.86	AVG	Horizontal	199	120	54.0	-7.1	Pass
5	7847.80	34.68	3.89	35.88	64.45	MaxP	Vertical	149	119	68.2	-3.8	Pass
6	7851.60	23.28	3.93	35.88	53.08	AVG	Vertical	100	59	54.0	-0.9	Pass
7	7885.80	35.31	3.86	35.88	65.05	MaxP	Horizontal	100	120	68.2	-3.2	Pass
8	7893.40	23.39	3.79	35.88	53.06	AVG	Horizontal	100	30	54.0	-0.9	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9632-5872 Antenna, 80MHz BW, PS 1.0

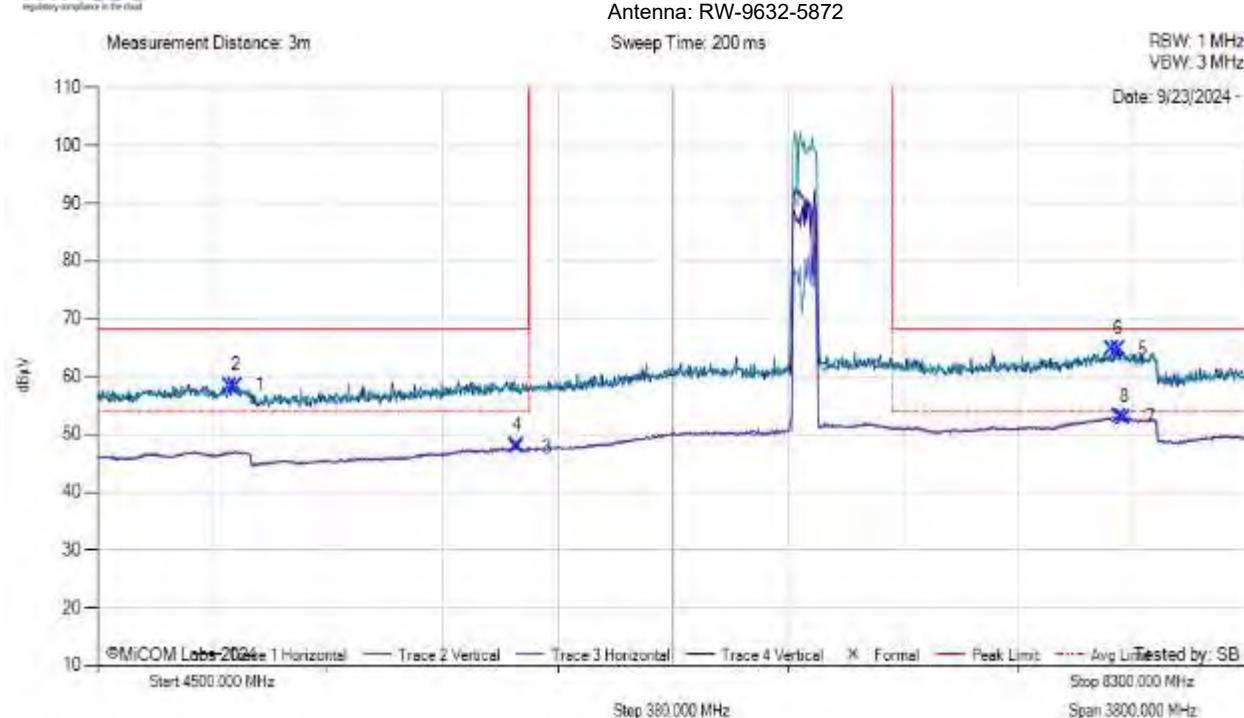
**Equipment Configuration for TX SE UNI 5 FULL BE**

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	80 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6835 MHz	<b>Data Rate:</b>	36
<b>Power Setting:</b>	1.5	<b>Tested By:</b>	SB

**Test Measurement Results**



**TX SE UNI 5 Full BE**



**4500.00 - 8300.00 MHz**

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4937.00	31.55	2.90	34.01	58.46	MaxP	Horizontal	199	150	68.2	-9.8	Pass
2	4956.00	31.52	2.89	34.01	58.42	MaxP	Vertical	100	119	68.2	-9.8	Pass
3	5883.20	19.56	3.20	35.02	47.77	AVG	Horizontal	199	0	54.0	-6.2	Pass
4	5887.00	19.75	3.18	35.02	47.96	AVG	Vertical	149	90	54.0	-6.0	Pass
5	7851.60	35.04	3.93	35.88	64.85	MaxP	Vertical	199	119	68.2	-3.4	Pass
6	7870.60	34.96	3.87	35.88	64.71	MaxP	Horizontal	100	60	68.2	-3.5	Pass
7	7874.40	23.19	3.92	35.88	52.99	AVG	Vertical	149	150	54.0	-1.0	Pass
8	7889.60	23.23	3.83	35.88	52.94	AVG	Horizontal	100	30	54.0	-1.1	Pass

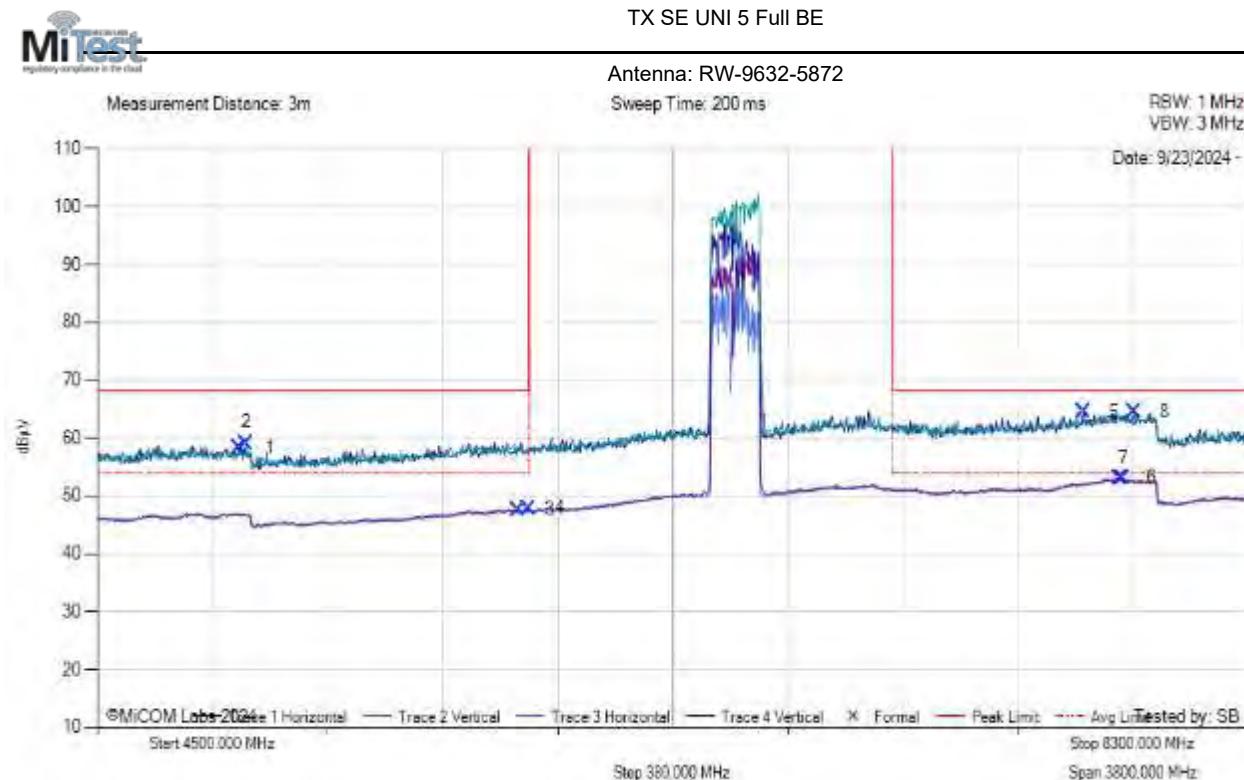
**Test Notes:** 120VAC POE, 6835 MHz, RW-9632-5872 Antenna, 80MHz BW, PS 1.5

#### 9.5.1.2.4.4. 160MHz

##### Equipment Configuration for TX SE UNI 5 FULL BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6605 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

##### Test Measurement Results



4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4967.40	31.42	2.93	34.01	58.37	MaxP	Horizontal	101	150	68.2	-9.9	Pass
2	4990.20	32.01	3.11	34.02	59.14	MaxP	Vertical	101	150	68.2	-9.1	Pass
3	5890.80	19.44	3.19	35.03	47.66	AVG	Vertical	149	89	54.0	-6.3	Pass
4	5925.00	19.56	3.27	35.10	47.92	AVG	Horizontal	149	30	131.2	-83.3	Pass
5	7756.60	34.91	3.80	35.86	64.57	MaxP	Horizontal	149	30	68.2	-3.7	Pass
6	7878.20	23.35	3.92	35.88	53.15	AVG	Vertical	101	59	54.0	-0.8	Pass
7	7885.80	23.28	3.86	35.88	53.02	AVG	Horizontal	101	-1	54.0	-1.0	Pass
8	7923.80	34.91	3.77	35.88	64.55	MaxP	Vertical	149	59	68.2	-3.7	Pass

**Test Notes:** 120VAC POE, 6605 MHz, RW-9632-5872 Antenna, 160MHz BW, PS 0.5

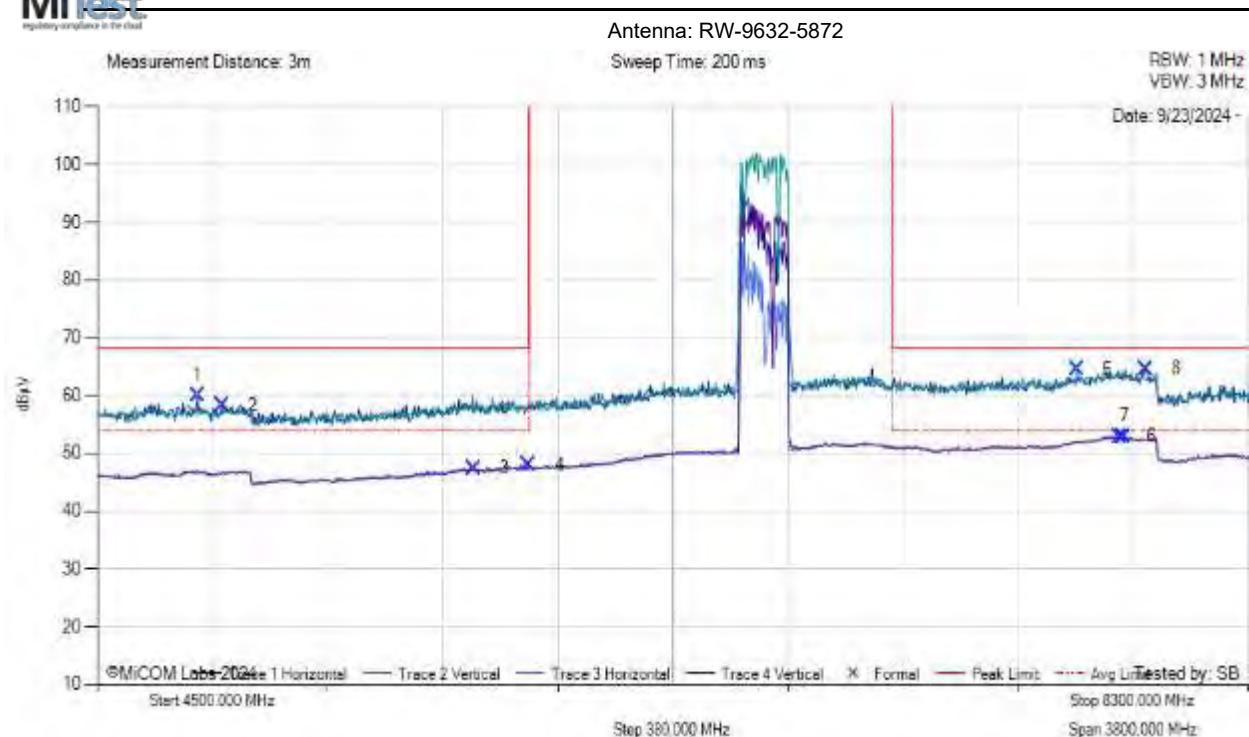
Equipment Configuration for TX SE UNI 5 FULL BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6700 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	0.5	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Full BE



4500.00 - 8300.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4830.60	33.01	2.92	34.00	59.93	MaxP	Horizontal	99	30	68.2	-8.3	Pass
2	4914.20	31.36	3.01	34.01	58.38	MaxP	Vertical	99	150	68.2	-9.8	Pass
3	5742.60	19.49	3.17	34.73	47.39	AVG	Horizontal	199	0	54.0	-6.6	Pass
4	5925.00	19.69	3.27	35.10	48.06	AVG	Vertical	149	89	131.2	-83.2	Pass
5	7733.80	34.82	3.85	35.86	64.52	MaxP	Vertical	99	29	68.2	-3.7	Pass
6	7878.20	23.09	3.92	35.88	52.89	AVG	Horizontal	99	150	54.0	-1.1	Pass
7	7889.60	23.23	3.83	35.88	52.94	AVG	Vertical	149	59	54.0	-1.1	Pass
8	7961.80	34.97	3.81	35.87	64.65	MaxP	Horizontal	199	120	68.2	-3.6	Pass

**Test Notes:** 120VAC POE, 6700 MHz, RW-9632-5872 Antenna, 160MHz BW, PS 0.5

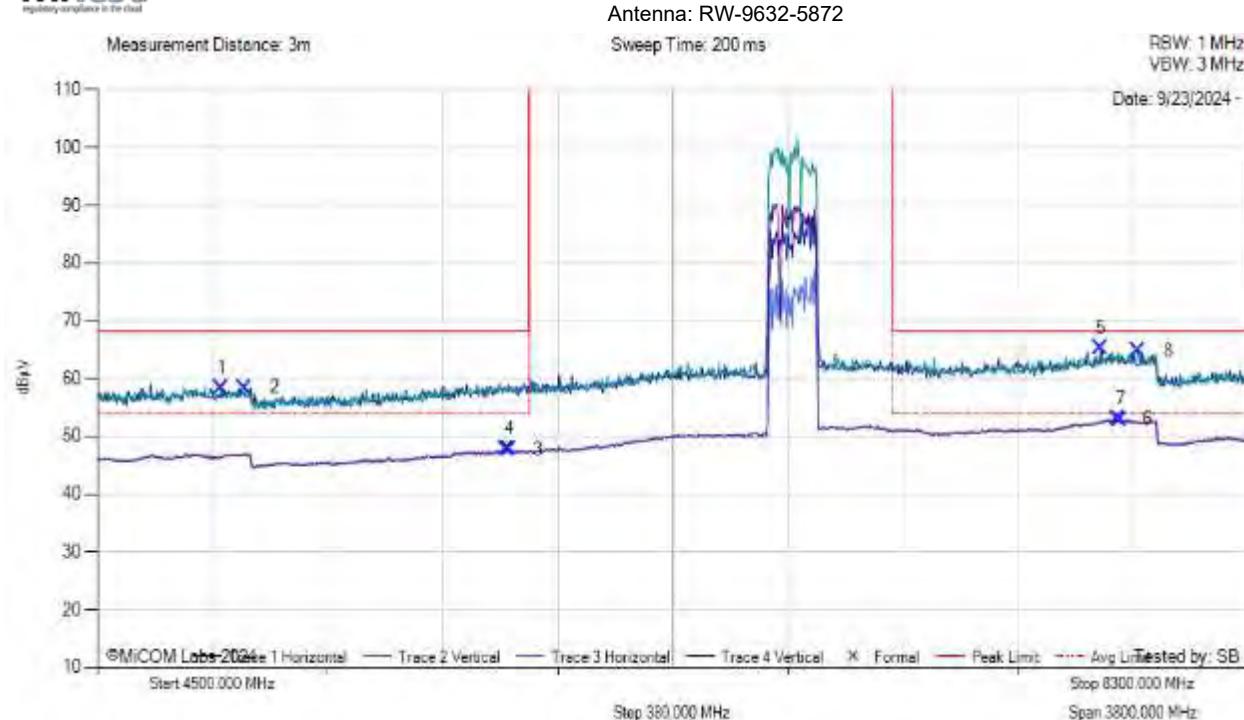
Equipment Configuration for TX SE UNI 5 FULL BE

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	160 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	6795 MHz	<b>Data Rate:</b>	72.1
<b>Power Setting:</b>	1	<b>Tested By:</b>	SB

Test Measurement Results



TX SE UNI 5 Full BE



4500.00 - 8300.00 MHz

Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	4910.40	31.40	2.96	34.01	58.37	MaxP	Horizontal	199	90	68.2	-9.9	Pass
2	4986.40	31.38	3.06	34.02	58.46	MaxP	Vertical	101	0	68.2	-9.8	Pass
3	5852.80	19.53	3.28	34.96	47.77	AVG	Vertical	149	89	54.0	-6.2	Pass
4	5860.40	19.50	3.30	34.98	47.77	AVG	Horizontal	100	90	54.0	-6.2	Pass
5	7813.60	35.72	3.72	35.87	65.31	MaxP	Horizontal	149	120	68.2	-2.9	Pass
6	7866.80	23.34	3.82	35.88	53.04	AVG	Horizontal	199	90	54.0	-1.0	Pass
7	7878.20	23.13	3.92	35.88	52.93	AVG	Vertical	199	0	54.0	-1.1	Pass
8	7935.20	35.09	3.74	35.87	64.70	MaxP	Vertical	199	59	68.2	-3.5	Pass

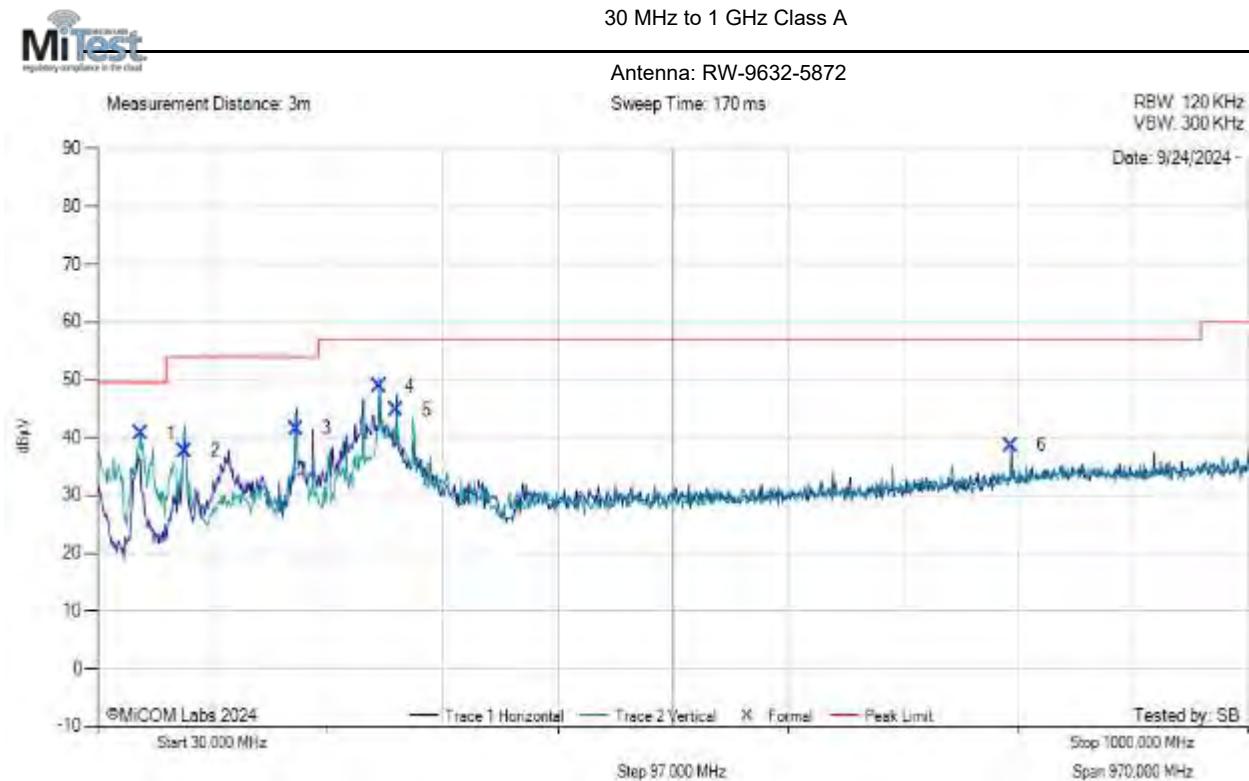
**Test Notes:** 120VAC POE, 6795 MHz, RW-9632-5872 Antenna, 160MHz BW, PS 1

### 9.5.2. Digital Emissions

#### Equipment Configuration for 30 MHZ TO 1 GHZ CLASS A

<b>Antenna:</b>	RW-9632-5872	<b>Variant:</b>	20 MHz
<b>Antenna Gain (dBi):</b>	32.0	<b>Modulation:</b>	OFDM
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99%
<b>Channel Frequency (MHz):</b>	5935 MHz	<b>Data Rate:</b>	8.6
<b>Power Setting:</b>	9.5	<b>Tested By:</b>	SB

#### Test Measurement Results



30.00 - 1000.00 MHz													
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail	
1	66.30	53.92	3.87	-17.08	40.71	MaxQP	Vertical	100	29	49.5	-8.8	Pass	
2	103.51	47.81	4.10	-14.19	37.72	MaxQP	Vertical	100	178	54.0	-16.3	Pass	
3	197.40	49.52	4.58	-12.52	41.58	MaxQP	Horizontal	102	178	54.0	-12.4	Pass	
4	267.89	55.49	4.87	-11.50	48.86	MaxQP	Vertical	119	263	57.0	-8.1	Pass	
5	281.94	51.17	4.92	-11.30	44.79	MaxQP	Horizontal	172	263	57.0	-12.2	Pass	
6	800.00	35.14	6.62	27.57	38.67	MaxQP	Horizontal	100	0	57.0	-18.3	Pass	

**Test Notes:** 120VAC POE, 5945 MHz, RW-9632-5872 Antenna, 20MHz BW, PS 9.5

## 9.6. AC Wireline

### Test Conditions for ac Wireline Emissions (0.15 – 30 MHz)

Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	20.0 - 24.5
Test Heading:	Conducted (ac Wireline Emissions)	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.207	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

#### Test Procedure for ac Wireline Emissions (0.15 – 30 MHz)

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

Test configuration and setup for ac Wireline Emission Measurement were per the ac Wireline Test Set-up specified in this document.

#### Limits for ac Wireline Emissions

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

#### Limits for conducted disturbance at the mains ports of class B ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50
Note 1	* Decreases with the logarithm of the frequency	
Note 2	* The lower limit applies at the boundary between frequency ranges	

#### Limits for conducted disturbance at the mains ports of class A ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	79	66
0.5–30	73	60
Note 1	* The lower limit shall apply at the transition frequency.	

The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

### Scope

This test assesses the ability of the EUT to limit its internal noise from being present on the AC mains power input/output ports.

### Test Procedure

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

## Limits

The equipment shall meet the class B limits given in FCC 15.207 & ICES-003. Alternatively, for equipment intended to be used in telecommunication centers only, the class A limits given in FCC 15B, ICES-003 may be used.

Limits for conducted disturbance at the mains ports of class B ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50
Note 1	* Decreases with the logarithm of the frequency	
Note 2	* The lower limit applies at the boundary between frequency ranges	

Limits for conducted disturbance at the mains ports of class A ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	79	66
0.5–30	73	60
Note 1	* The lower limit shall apply at the transition frequency.	

## Traceability

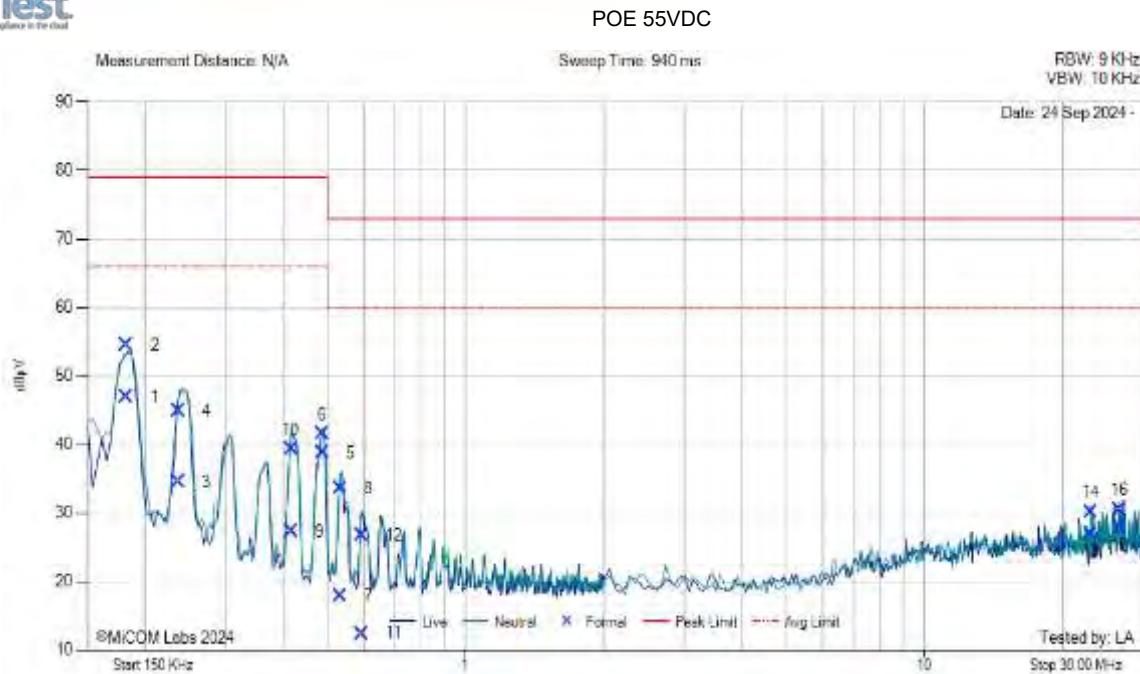
All conducted emission measurements are traceable to national standards. The uncertainty of measurement at a confidence level of not less than 95 %, with a coverage factor of  $k=2$ , in the range 9 kHz – 30 MHz (Average & Quasi-peak) is  $\pm 2.64$  dB.

Laboratory Measurement Uncertainty	
Measurement uncertainty	$\pm 2.64$ dB

Method	
Measurements were made per work instruction WI-EMC-01 'Measurement of Conducted Emissions'	

## Test Equipment Utilized

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
184	Pulse Limiter	Rhode & Schwarz	ESH3Z2	357.8810.52	23 Feb 2025
190	LISN (two-line V-network)	Rhode & Schwarz	ESH3Z5	836679/006	5 Dec 2024
285	DC Power Supply	Keysight	E36155A	MY63000156	4 Dec 2024
288	Multimeter	Fluke	117	62521706MV	1 Dec 2025
295	Conducted Emissions Chamber Maintenance Check	MiCOM	Conducted Emissions Chamber	295	1 Dec 2024
307	BNC-CABLE	Megaphase	1689 1GVT4	15F50B002	23 Feb 2025
316	Dell desktop computer workstation	Dell	Desktop	WS04	Not Required
372	AC Variable PS	California Instruments	1251P	L06951	Cal when used
389	LISN (3 Phase) 9kHz - 30 MHz for support equipment	Rohde & Schwarz	ESH2-Z5	881493/013	Not Required
496	Conducted Emissions Test Software Version 3.0.0.57	MiCOM	Conducted Emissions Software	496	Not Required
510	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2026
555	Rhode & Schwarz Receiver (Firmware Version : 3.10 SP1)	Rhode & Schwarz	ESW 44	101893	28 Jun 2025
CCEMC01	Confidence Check.	MiCOM	CCEMC01	None	18 Oct 2024

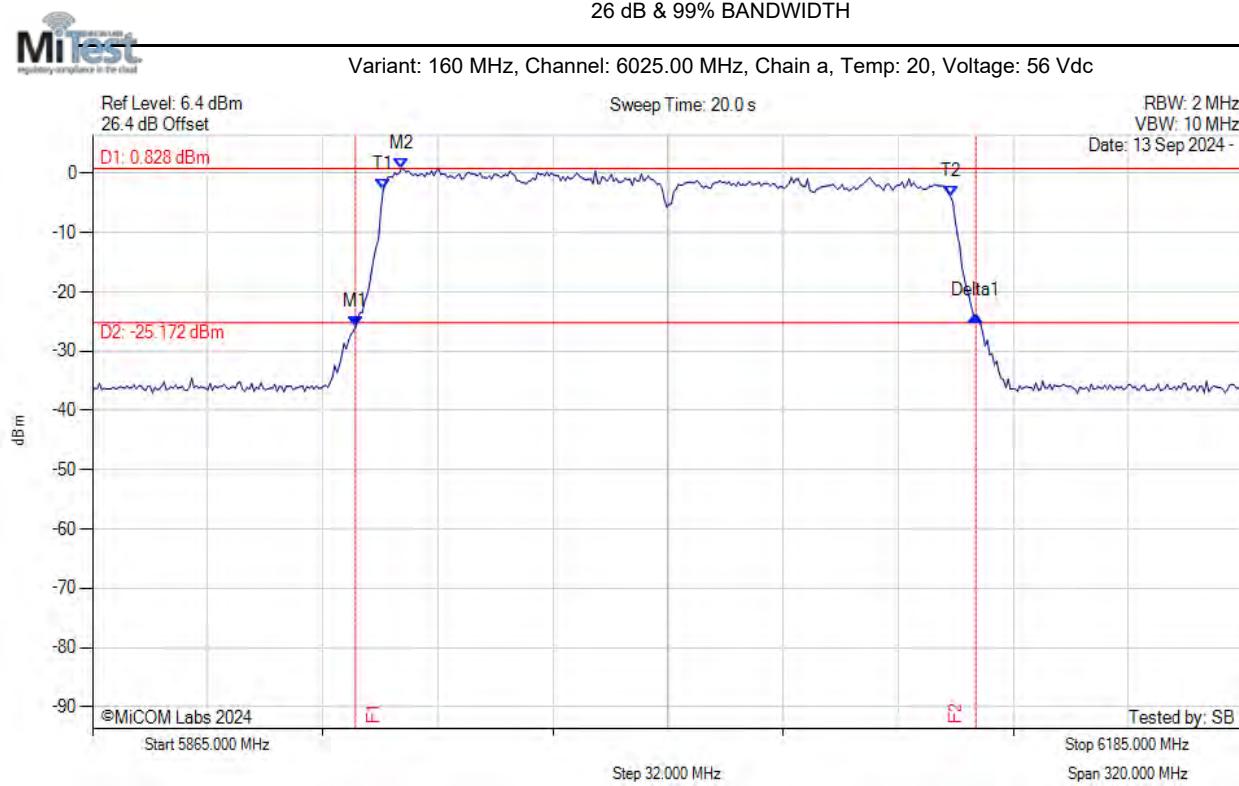


Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	Factor dB	Total Correction dB $\mu$ V	Corrected Value dB $\mu$ V	Measurement Type	Line	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	0.182	36.95	-0.04	10.00	9.96	46.91	Max Avg	Live	66.0	-19.1	Pass
2	0.182	44.51	-0.04	10.00	9.96	54.47	Max Qp	Live	79.0	-24.5	Pass
3	0.237	24.54	-0.04	10.00	9.96	34.50	Max Avg	Neutral	66.0	-31.5	Pass
4	0.237	34.95	-0.04	10.00	9.96	44.91	Max Qp	Neutral	79.0	-34.1	Pass
5	0.487	28.87	-0.06	9.99	9.93	38.80	Max Avg	Live	66.0	-27.2	Pass
6	0.487	31.59	-0.06	9.99	9.93	41.52	Max Qp	Live	79.0	-37.5	Pass
7	0.533	8.05	-0.06	10.00	9.94	17.99	Max Avg	Neutral	60.0	-42.0	Pass
8	0.533	23.71	-0.06	10.00	9.94	33.65	Max Qp	Neutral	73.0	-39.4	Pass
9	0.416	17.44	-0.06	9.99	9.93	27.37	Max Avg	Live	66.0	-38.6	Pass
10	0.416	29.37	-0.06	9.99	9.93	39.30	Max Qp	Live	79.0	-39.7	Pass
11	0.592	2.49	-0.06	10.00	9.94	12.43	Max Avg	Neutral	60.0	-47.6	Pass
12	0.592	16.83	-0.06	10.00	9.94	26.77	Max Qp	Neutral	73.0	-46.2	Pass
13	23.130	16.46	-0.32	10.93	10.61	27.07	Max Avg	Neutral	60.0	-32.9	Pass
14	23.130	19.56	-0.32	10.93	10.61	30.17	Max Qp	Neutral	73.0	-42.8	Pass
15	26.610	17.36	-0.33	10.92	10.59	27.95	Max Avg	Live	60.0	-32.1	Pass
16	26.610	20.00	-0.33	10.92	10.59	30.59	Max Qp	Live	73.0	-42.4	Pass

**Test Notes:** 120VAC 60Hz, CBW 20MHz mode, max power

## **A. APPENDIX - GRAPHICAL IMAGES**

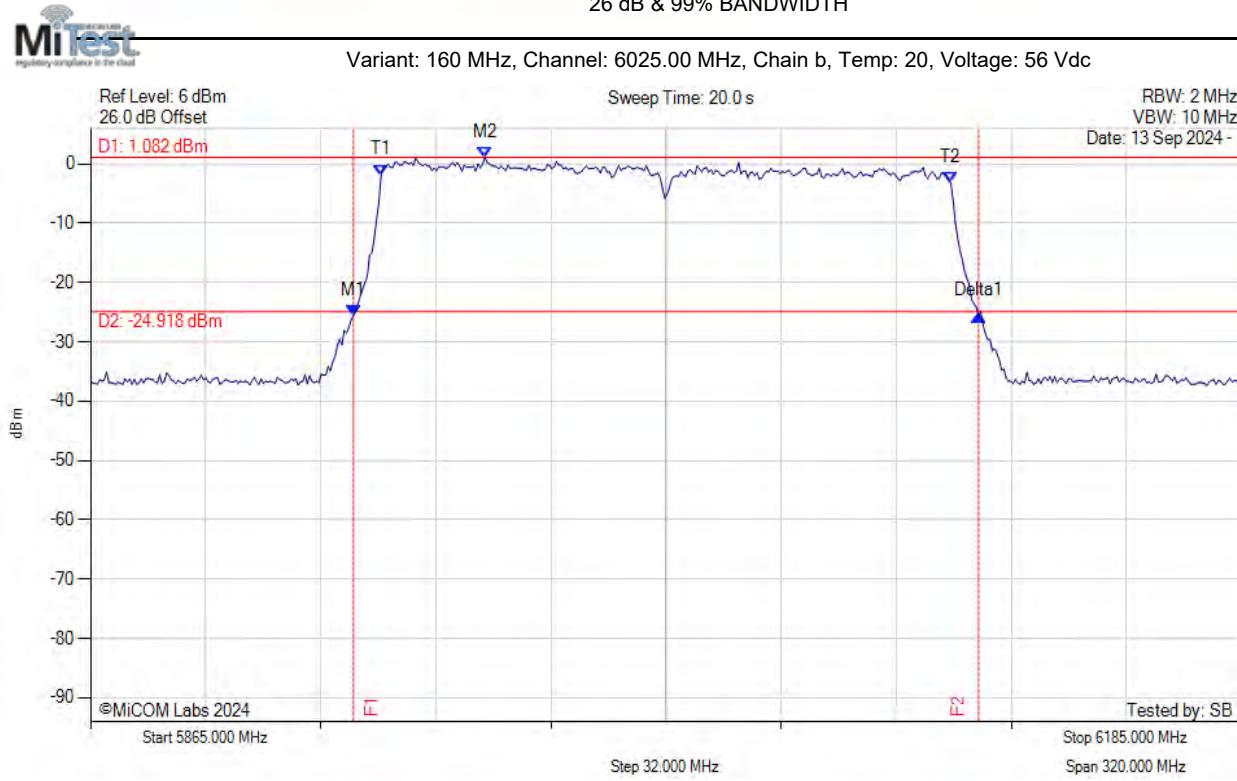
### A.1. 26 dB & 99% Bandwidth



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 5938.106 MHz : -25.908 dBm M2 : 5950.932 MHz : 0.828 dBm Delta1 : 172.505 MHz : 1.944 dB T1 : 5945.802 MHz : -2.837 dBm T2 : 6103.557 MHz : -3.946 dBm OBW : 157.756 MHz	Measured 26 dB Bandwidth: 172.505 MHz Measured 99% Bandwidth: 157.756 MHz

[back to matrix](#)

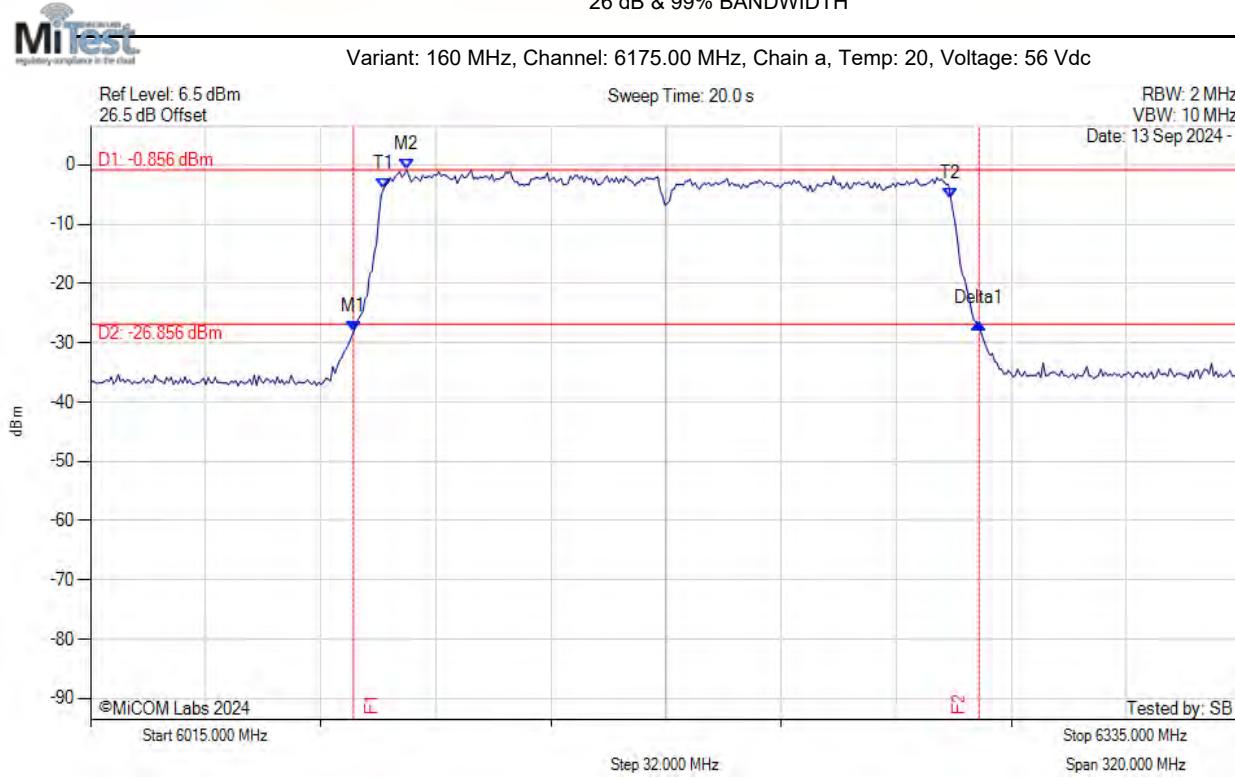
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 5938.106 MHz : -25.519 dBm M2 : 5974.659 MHz : 1.082 dBm Delta1 : 173.788 MHz : -0.132 dB T1 : 5945.802 MHz : -1.850 dBm T2 : 6104.198 MHz : -3.237 dBm OBW : 158.397 MHz	Measured 26 dB Bandwidth: 173.788 MHz Measured 99% Bandwidth: 158.397 MHz

[back to matrix](#)

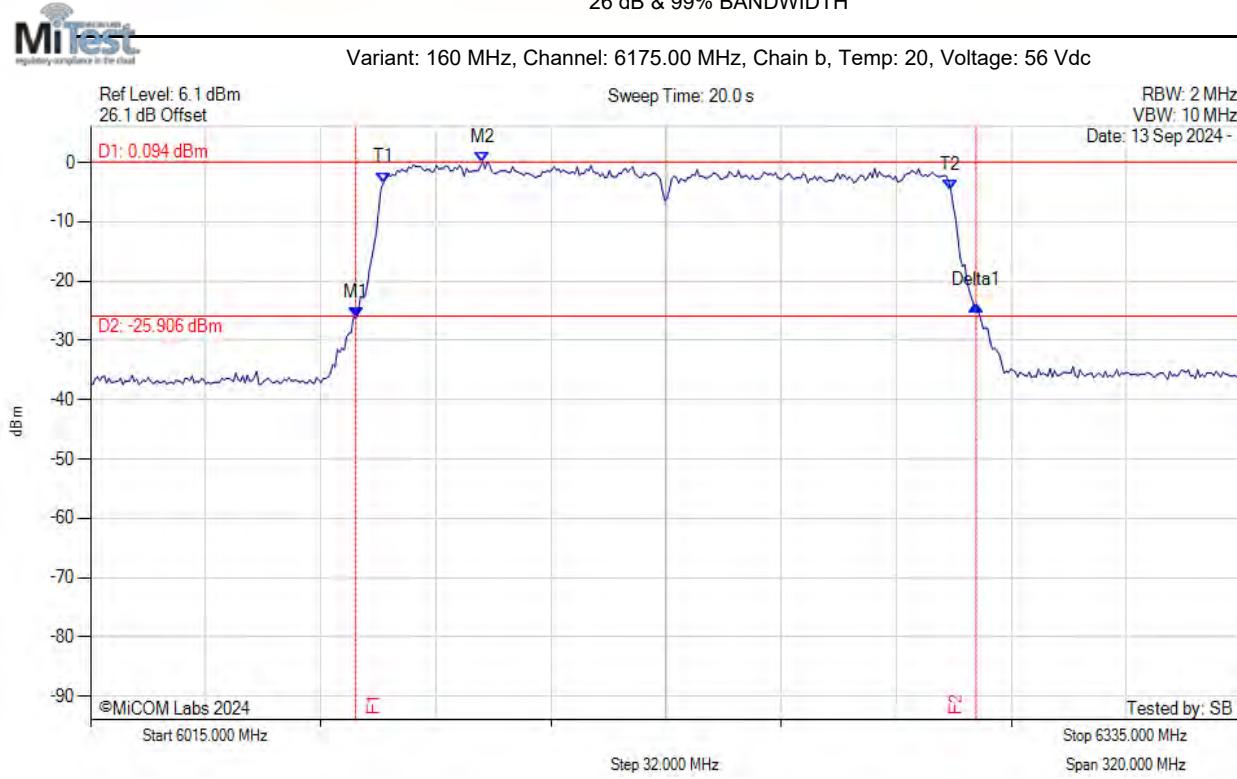
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6088.106 MHz : -28.216 dBm M2 : 6102.856 MHz : -0.856 dBm Delta1 : 173.788 MHz : 1.501 dB T1 : 6096.443 MHz : -4.100 dBm T2 : 6254.198 MHz : -5.735 dBm OBW : 157.756 MHz	Measured 26 dB Bandwidth: 173.788 MHz Measured 99% Bandwidth: 157.756 MHz

[back to matrix](#)

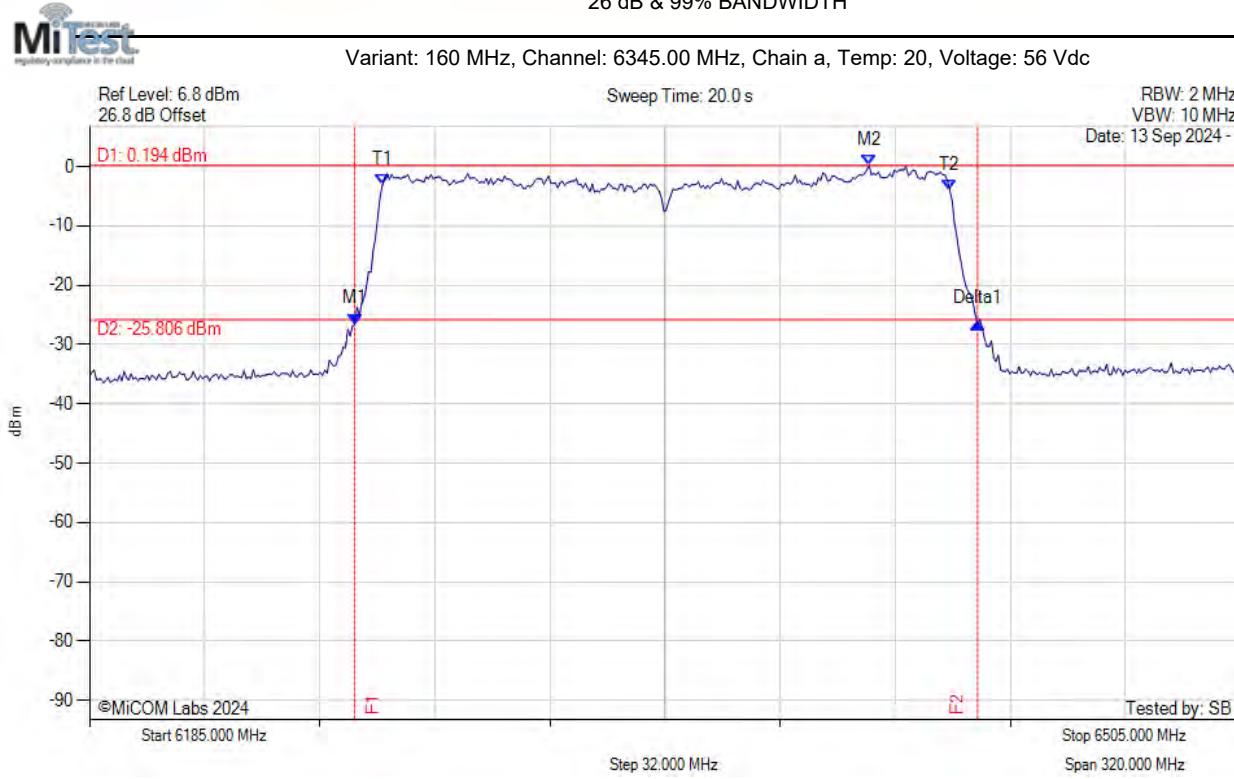
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6088.747 MHz : -26.208 dBm M2 : 6124.018 MHz : 0.094 dBm Delta1 : 172.505 MHz : 2.194 dB T1 : 6096.443 MHz : -3.408 dBm T2 : 6254.198 MHz : -4.618 dBm OBW : 157.756 MHz	Measured 26 dB Bandwidth: 172.505 MHz Measured 99% Bandwidth: 157.756 MHz

[back to matrix](#)

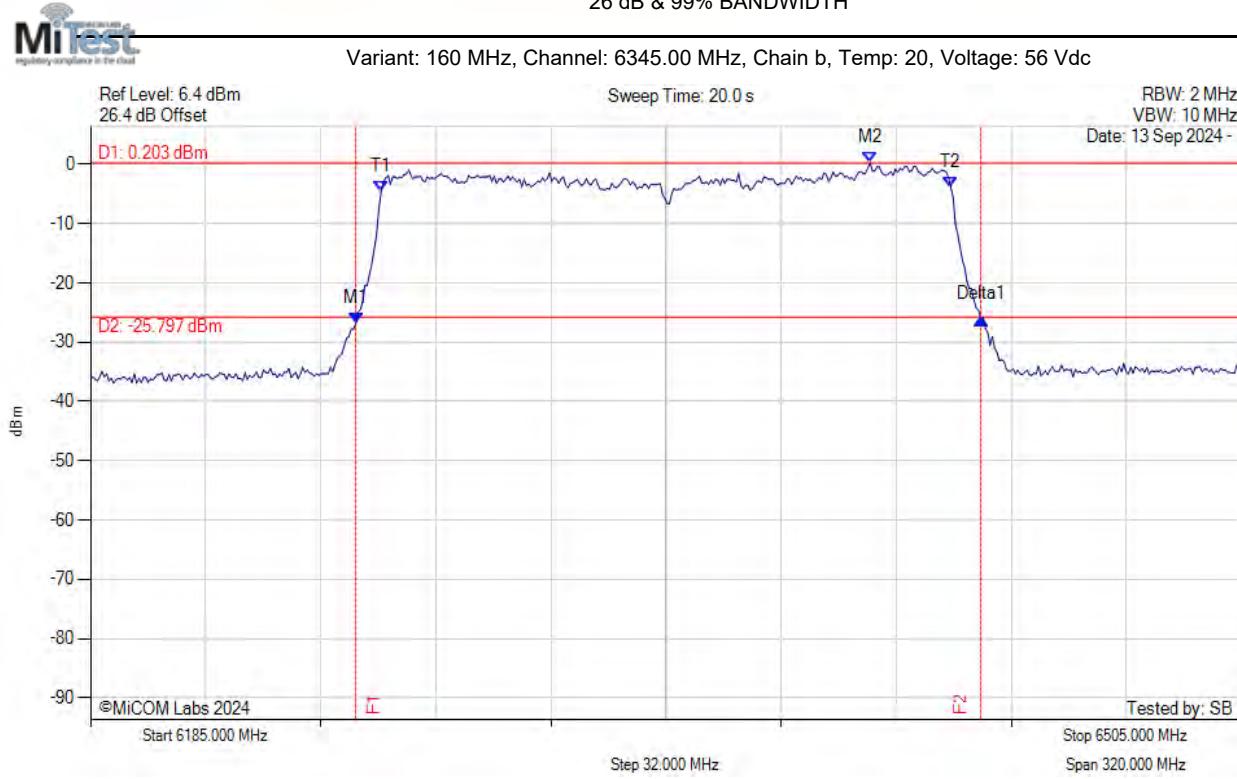
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6258.747 MHz : -26.541 dBm M2 : 6401.754 MHz : 0.194 dBm Delta1 : 173.146 MHz : 0.126 dB T1 : 6266.443 MHz : -3.072 dBm T2 : 6424.198 MHz : -4.044 dBm OBW : 157.756 MHz	Measured 26 dB Bandwidth: 173.146 MHz Measured 99% Bandwidth: 157.756 MHz

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26 dB & 99% BANDWIDTH



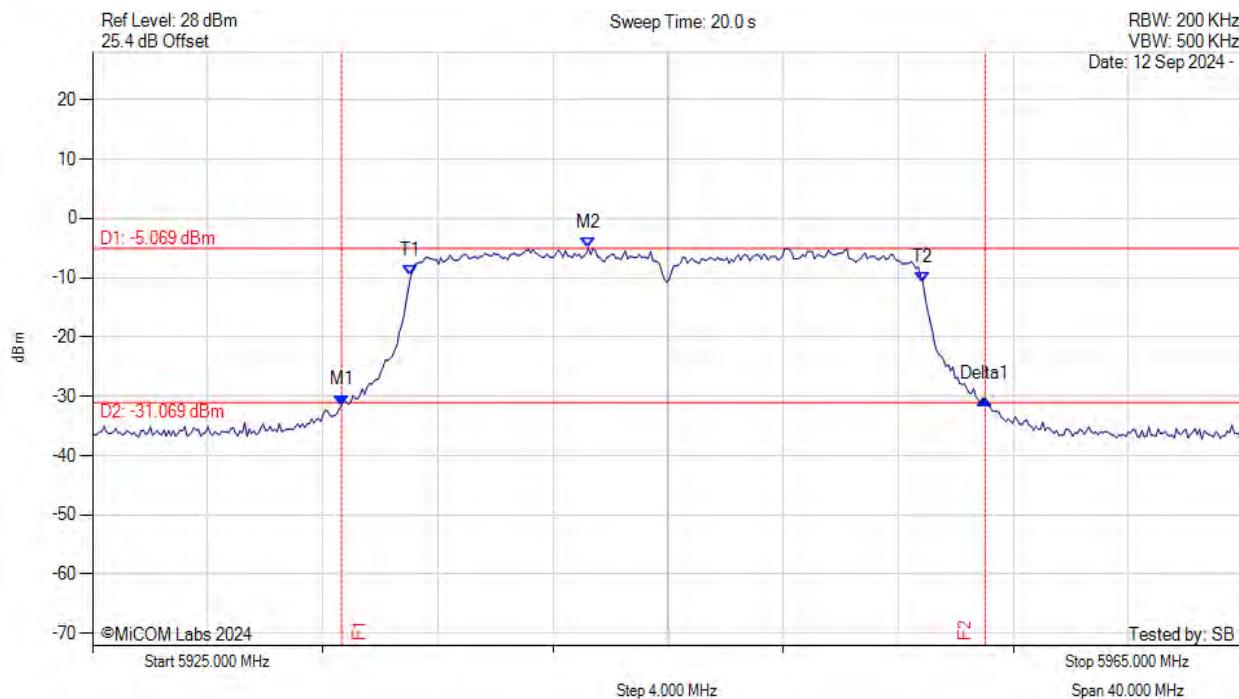
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6258.747 MHz : -26.815 dBm M2 : 6401.754 MHz : 0.203 dBm Delta1 : 173.788 MHz : 0.645 dB T1 : 6265.802 MHz : -4.570 dBm T2 : 6424.198 MHz : -3.946 dBm OBW : 158.397 MHz	Measured 26 dB Bandwidth: 173.788 MHz Measured 99% Bandwidth: 158.397 MHz

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26 dB & 99% BANDWIDTH



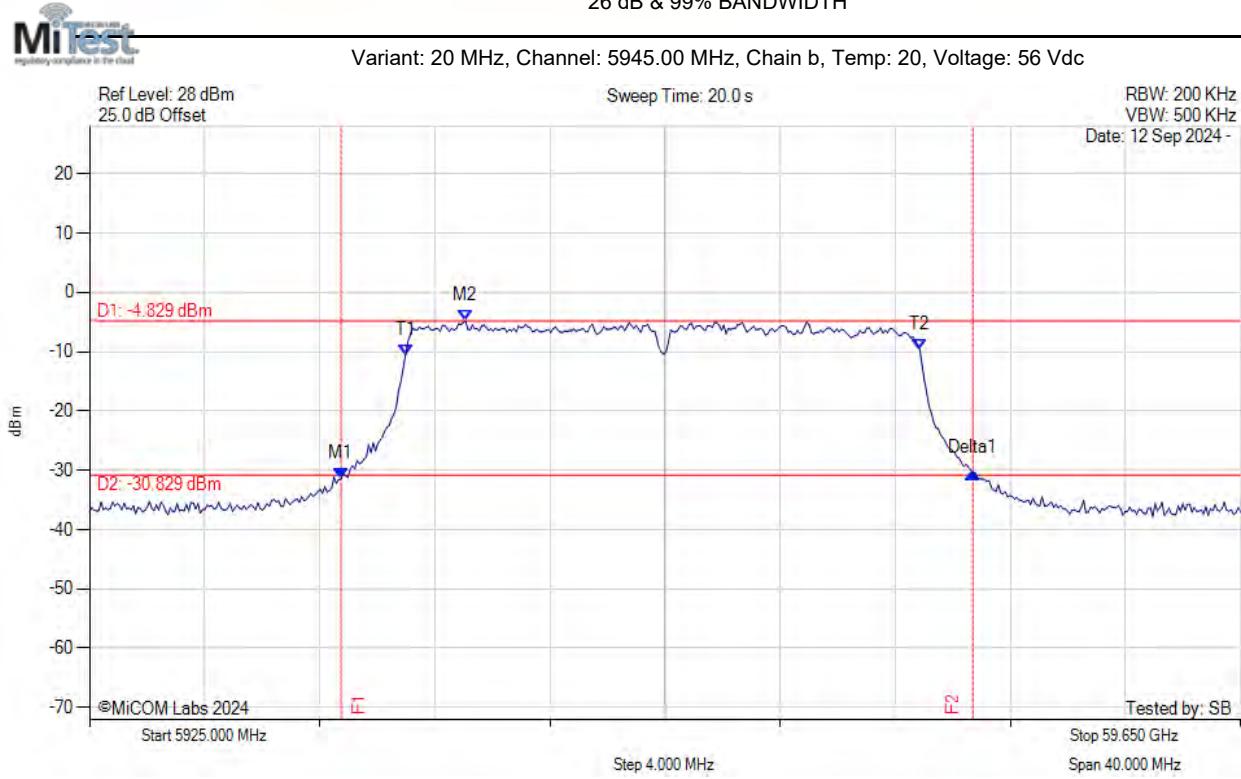
Variant: 20 MHz, Channel: 5945.00 MHz, Chain a, Temp: 20, Voltage: 56 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5933.657 MHz : -31.505 dBm M2 : 5942.234 MHz : -5.069 dBm Delta1 : 22.365 MHz : 1.005 dB T1 : 5936.062 MHz : -9.706 dBm T2 : 5953.858 MHz : -10.725 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 22.365 MHz Measured 99% Bandwidth: 17.796 MHz

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26 dB & 99% BANDWIDTH



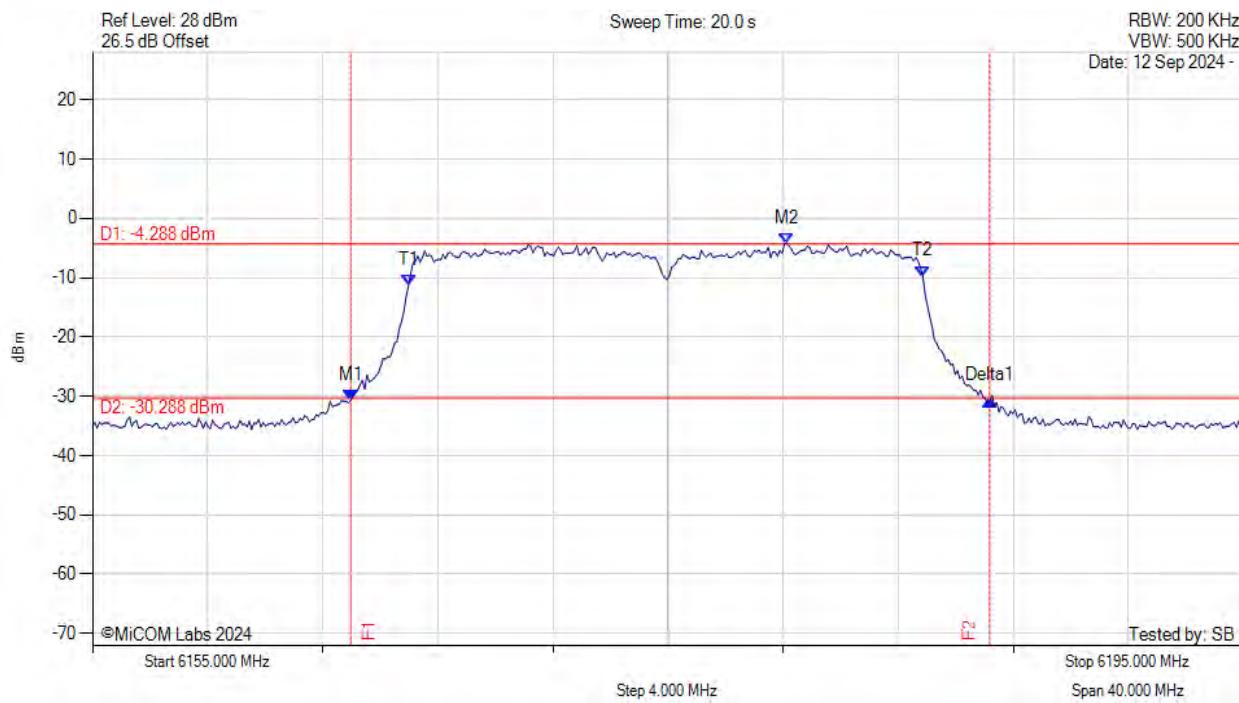
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5933.737 MHz : -31.473 dBm M2 : 5938.066 MHz : -4.829 dBm Delta1 : 21.964 MHz : 1.037 dB T1 : 5935.982 MHz : -10.501 dBm T2 : 5953.858 MHz : -9.716 dBm OBW : 17.876 MHz	Measured 26 dB Bandwidth: 21.964 MHz Measured 99% Bandwidth: 17.876 MHz

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26 dB & 99% BANDWIDTH



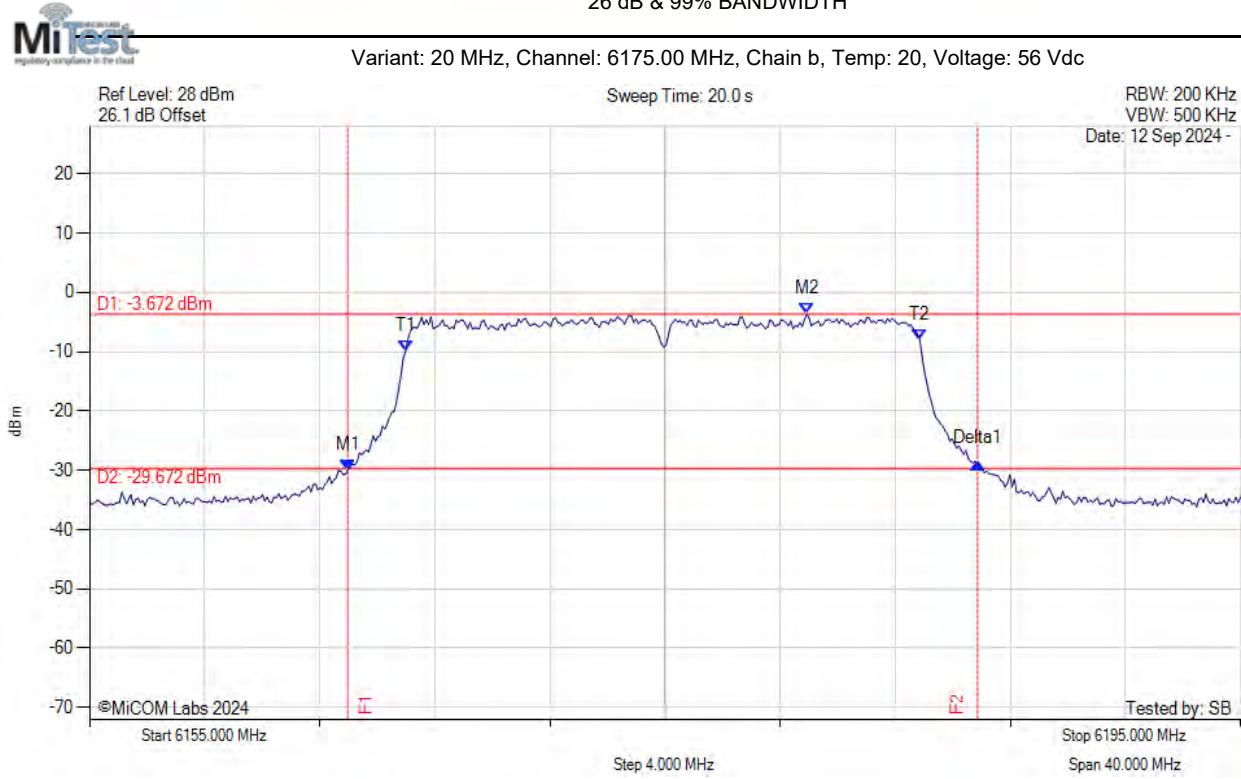
Variant: 20 MHz, Channel: 6175.00 MHz, Chain a, Temp: 20, Voltage: 56 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6163.978 MHz : -30.657 dBm M2 : 6179.128 MHz : -4.288 dBm Delta1 : 22.204 MHz : -0.059 dB T1 : 6165.982 MHz : -11.233 dBm T2 : 6183.858 MHz : -9.763 dBm OBW : 17.876 MHz	Measured 26 dB Bandwidth: 22.204 MHz Measured 99% Bandwidth: 17.876 MHz

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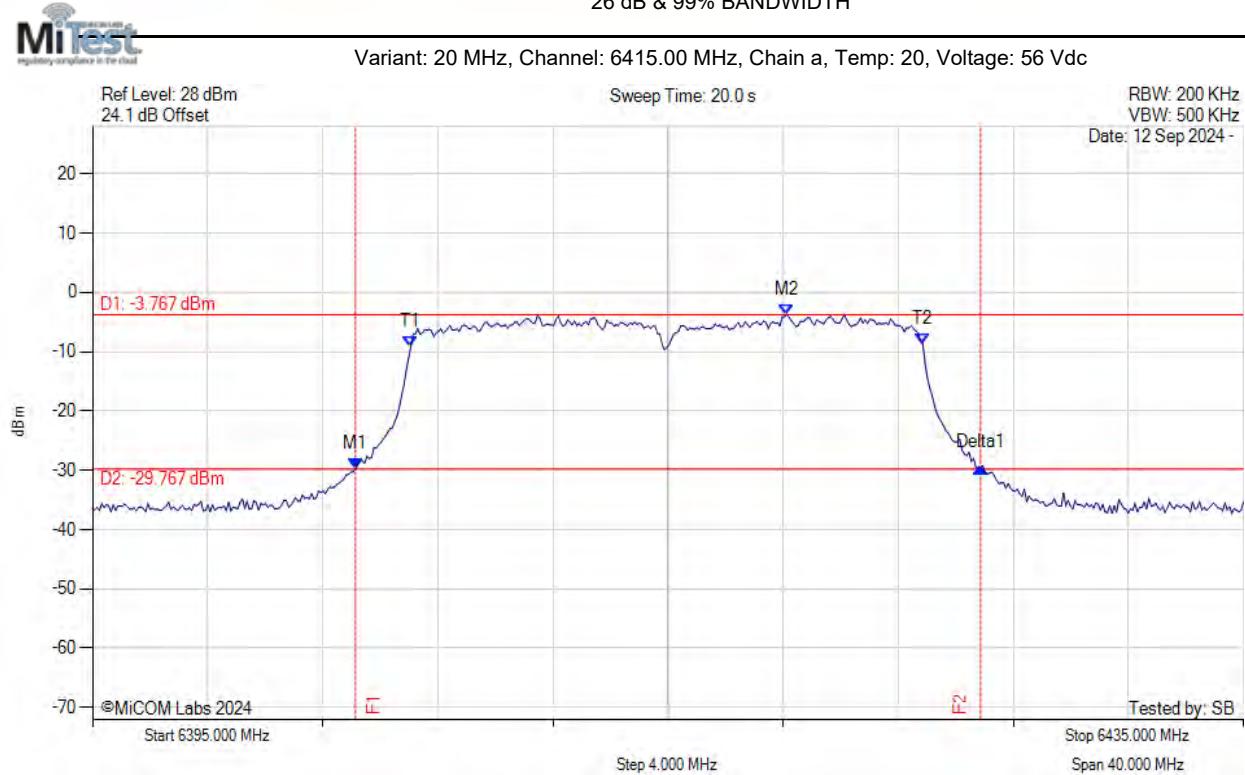
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6163.978 MHz : -29.937 dBm M2 : 6179.930 MHz : -3.672 dBm Delta1 : 21.884 MHz : 1.206 dB T1 : 6165.982 MHz : -9.978 dBm T2 : 6183.858 MHz : -7.985 dBm OBW : 17.876 MHz	Measured 26 dB Bandwidth: 21.884 MHz Measured 99% Bandwidth: 17.876 MHz

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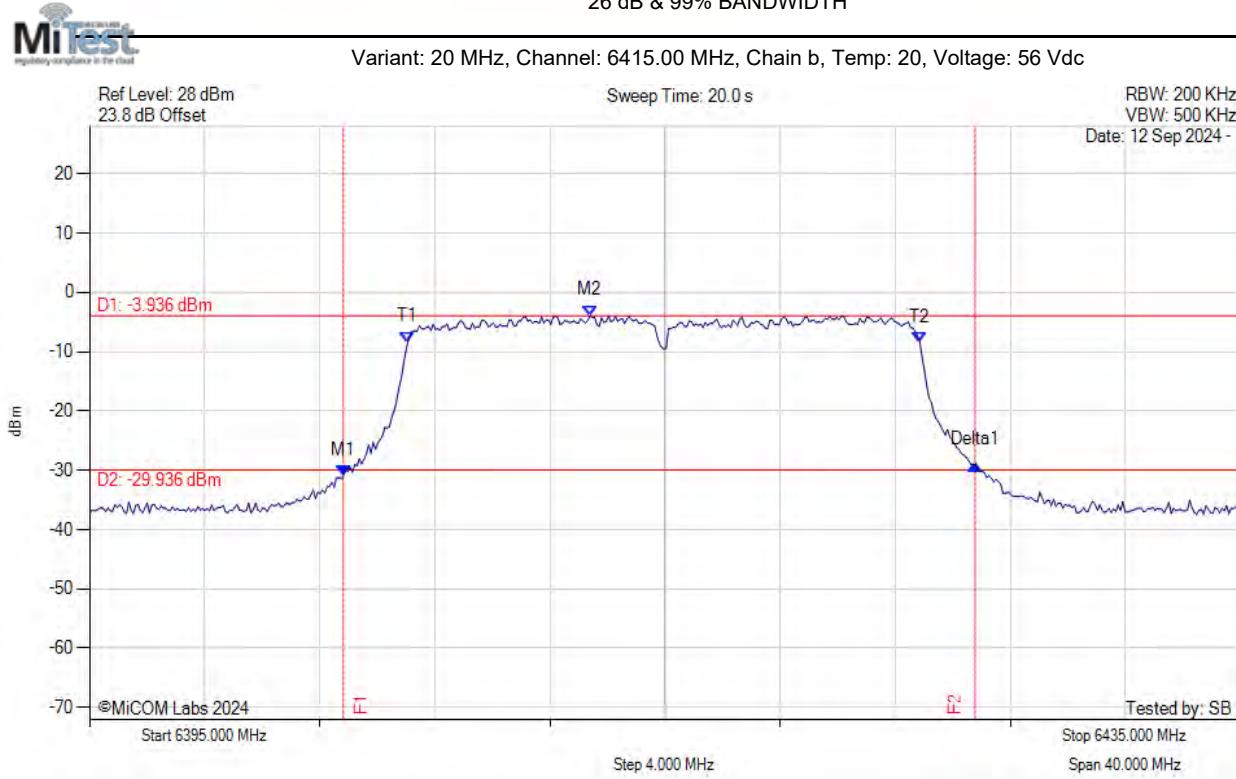
## 26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6404.138 MHz : -29.797 dBm M2 : 6419.128 MHz : -3.767 dBm Delta1 : 21.723 MHz : 0.209 dB T1 : 6406.062 MHz : -9.138 dBm T2 : 6423.858 MHz : -8.736 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 21.723 MHz Measured 99% Bandwidth: 17.796 MHz

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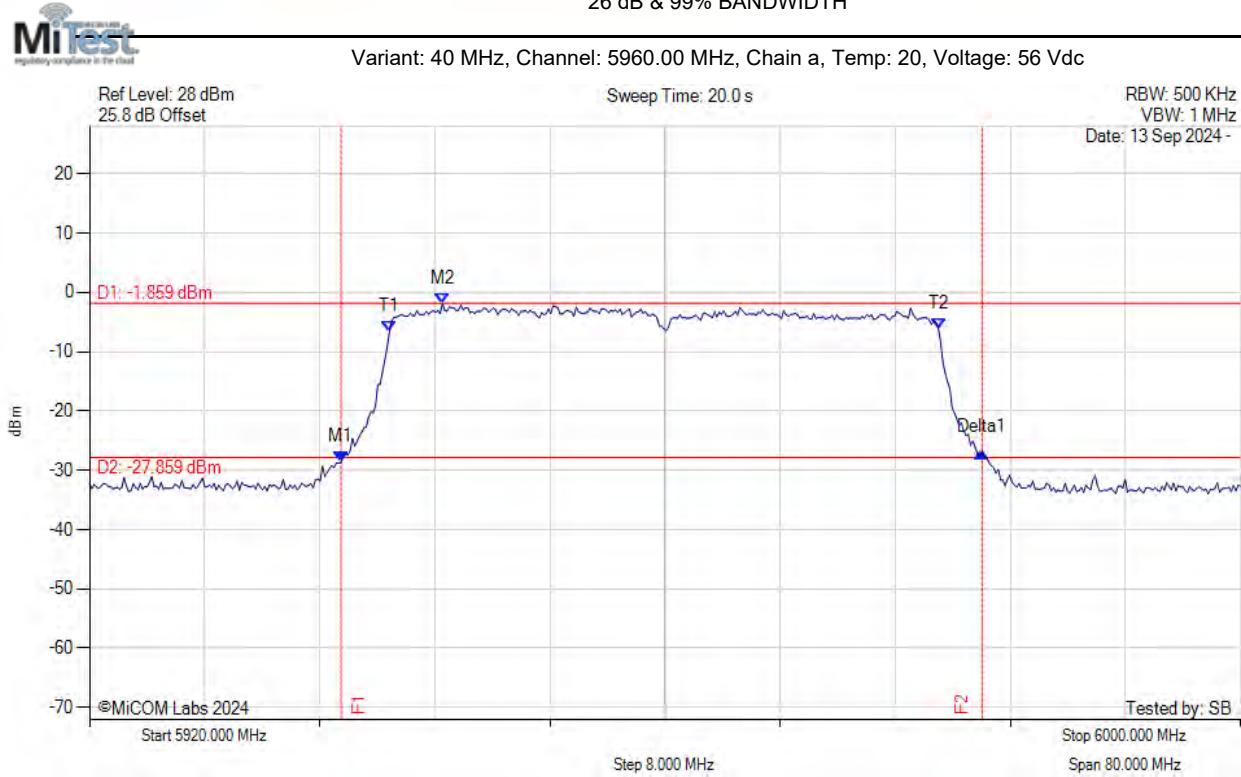
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6403.818 MHz : -30.979 dBm M2 : 6412.395 MHz : -3.936 dBm Delta1 : 21.964 MHz : 1.891 dB T1 : 6406.062 MHz : -8.374 dBm T2 : 6423.858 MHz : -8.400 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 21.964 MHz Measured 99% Bandwidth: 17.796 MHz

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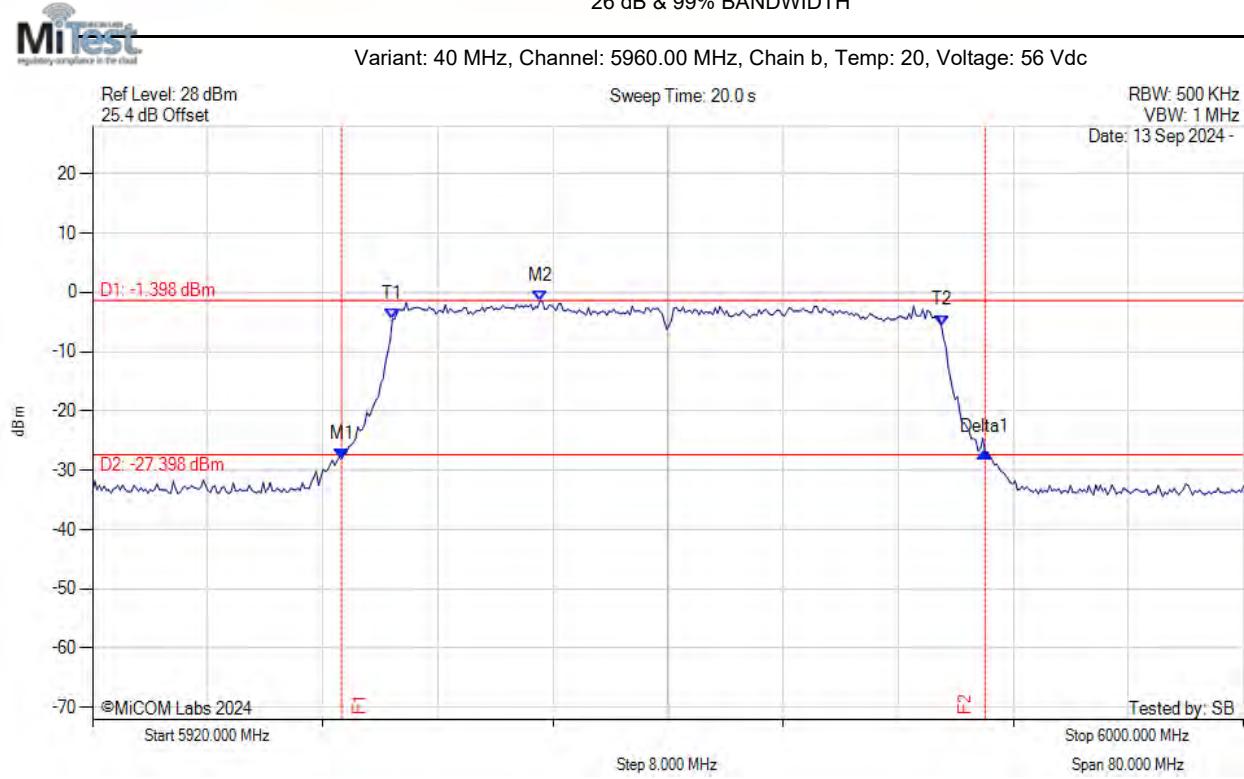
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5937.475 MHz : -28.676 dBm M2 : 5944.529 MHz : -1.859 dBm Delta1 : 44.569 MHz : 1.812 dB T1 : 5940.842 MHz : -6.690 dBm T2 : 5978.998 MHz : -6.061 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.569 MHz Measured 99% Bandwidth: 38.156 MHz

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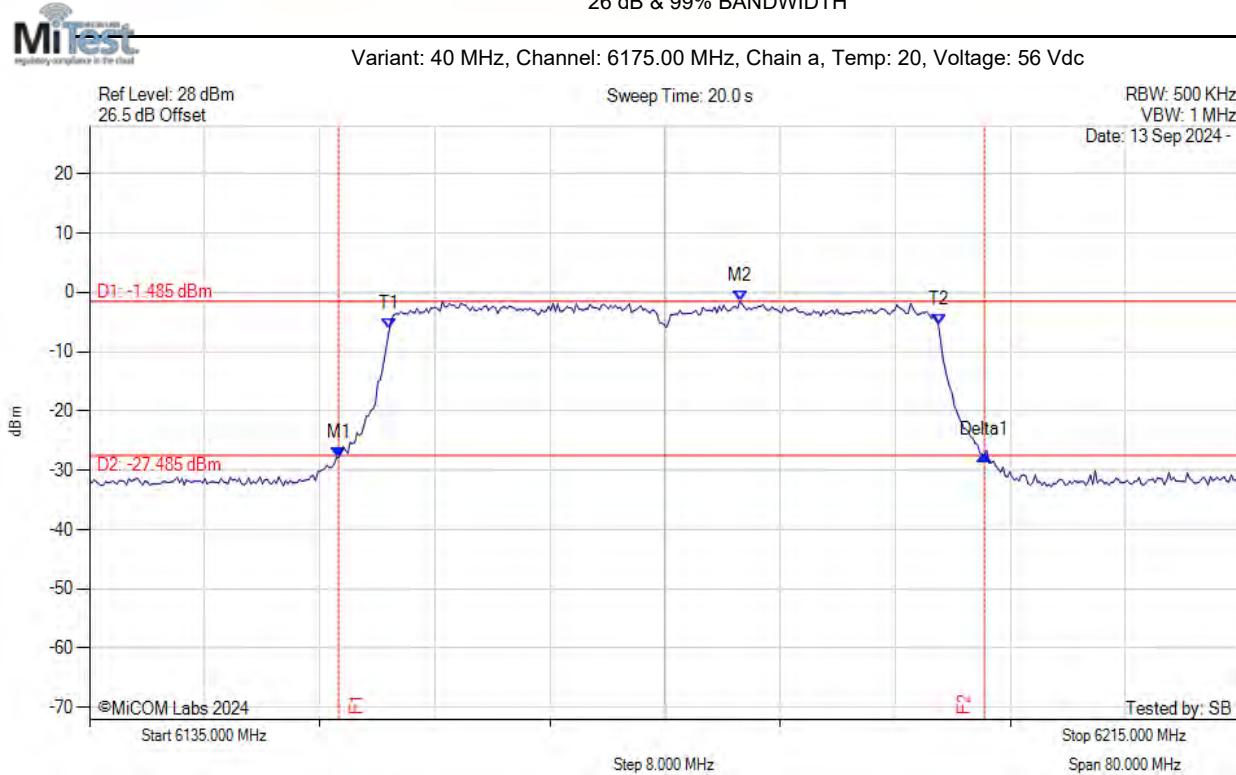
## 26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5937.315 MHz : -28.097 dBm M2 : 5951.102 MHz : -1.398 dBm Delta1 : 44.729 MHz : 1.064 dB T1 : 5940.842 MHz : -4.579 dBm T2 : 5978.998 MHz : -5.557 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.729 MHz Measured 99% Bandwidth: 38.156 MHz

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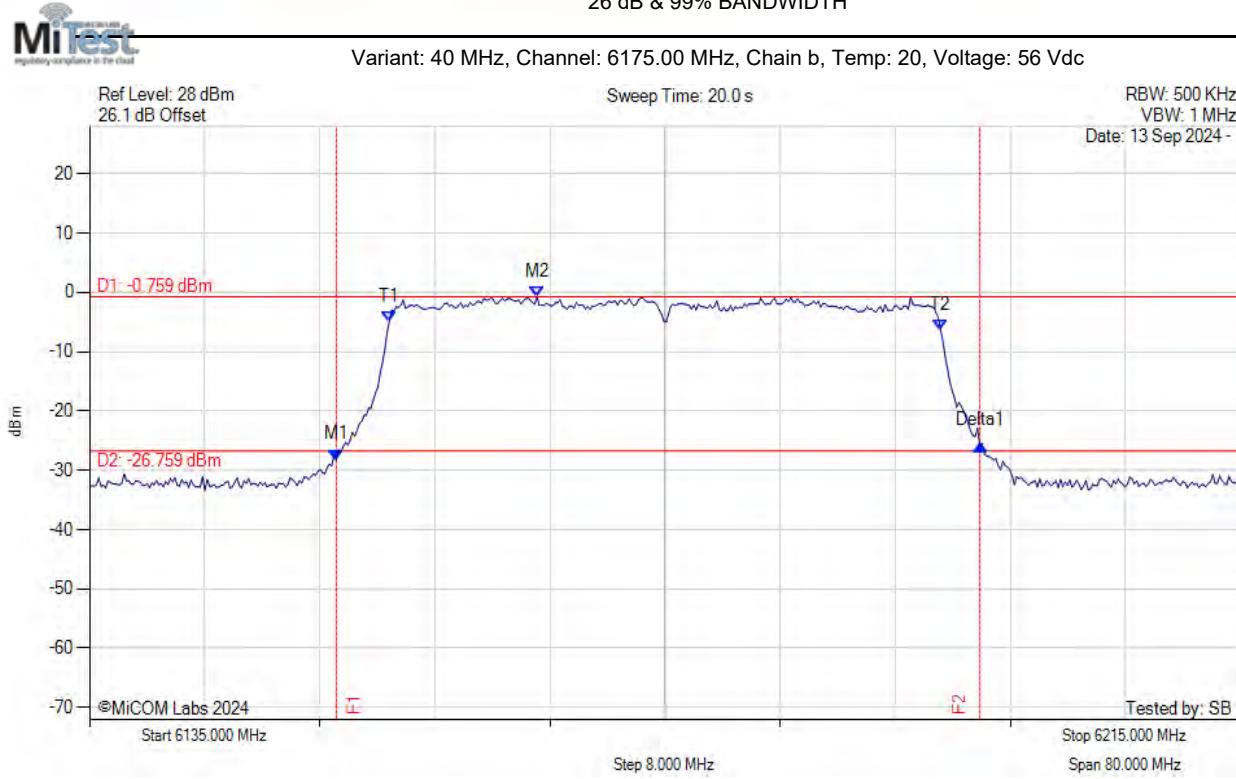
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6152.315 MHz : -27.855 dBm M2 : 6180.210 MHz : -1.485 dBm Delta1 : 44.890 MHz : 0.431 dB T1 : 6155.842 MHz : -6.197 dBm T2 : 6193.998 MHz : -5.416 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.890 MHz Measured 99% Bandwidth: 38.156 MHz

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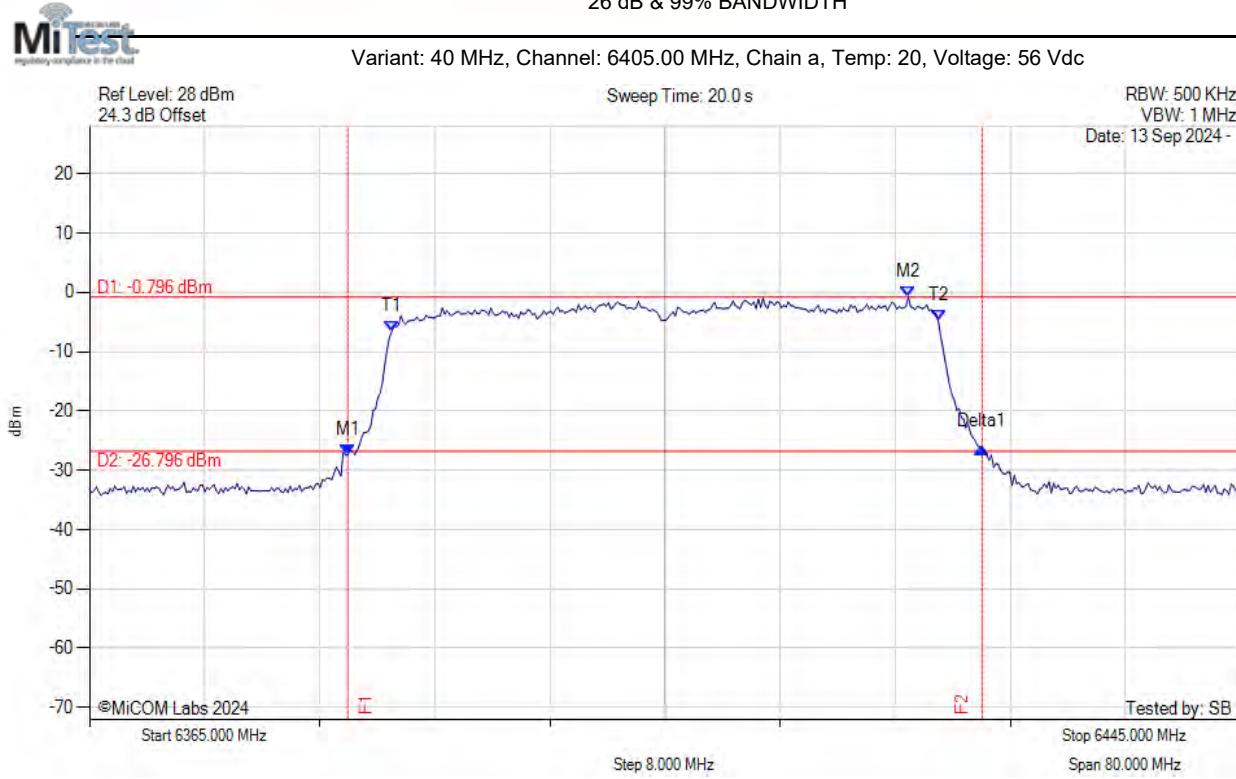
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6152.154 MHz : -28.241 dBm M2 : 6166.102 MHz : -0.759 dBm Delta1 : 44.729 MHz : 2.379 dB T1 : 6155.842 MHz : -4.886 dBm T2 : 6194.158 MHz : -6.326 dBm OBW : 38.317 MHz	Measured 26 dB Bandwidth: 44.729 MHz Measured 99% Bandwidth: 38.317 MHz

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26 dB & 99% BANDWIDTH



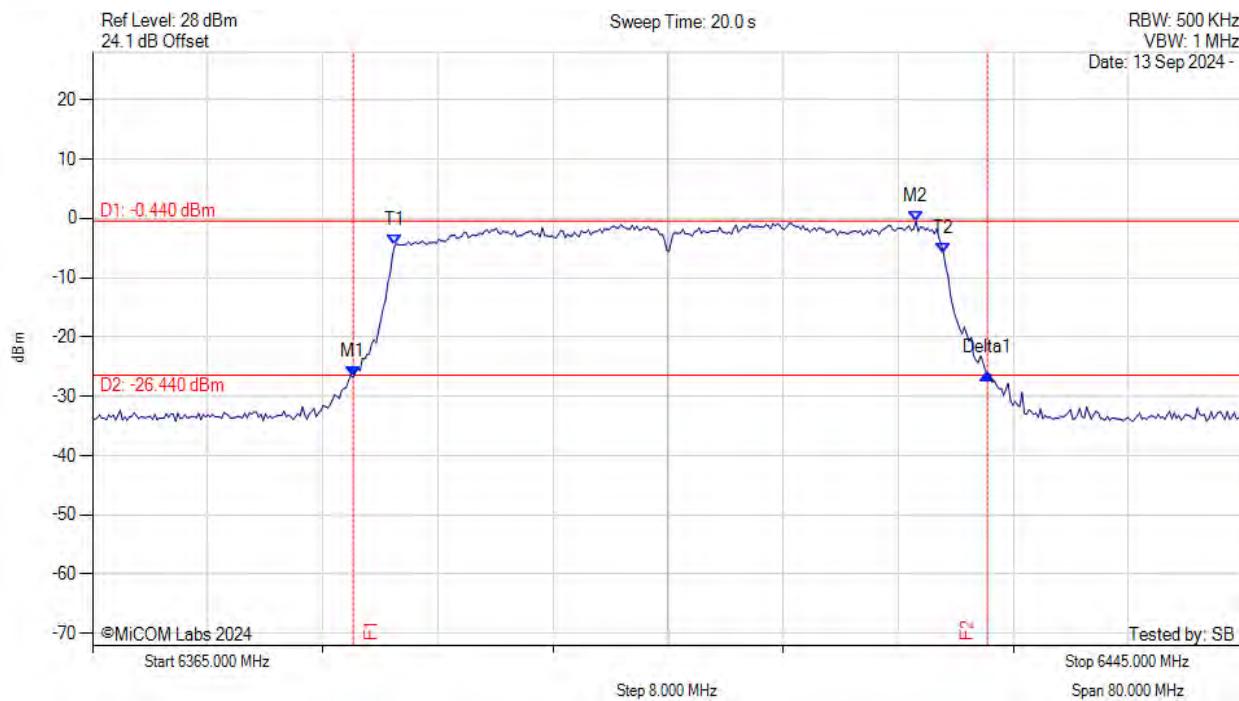
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6382.956 MHz : -27.338 dBm M2 : 6421.914 MHz : -0.796 dBm Delta1 : 44.088 MHz : 1.220 dB T1 : 6386.002 MHz : -6.576 dBm T2 : 6423.998 MHz : -4.823 dBm OBW : 37.996 MHz	Measured 26 dB Bandwidth: 44.088 MHz Measured 99% Bandwidth: 37.996 MHz

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26 dB & 99% BANDWIDTH



Variant: 40 MHz, Channel: 6405.00 MHz, Chain b, Temp: 20, Voltage: 56 Vdc



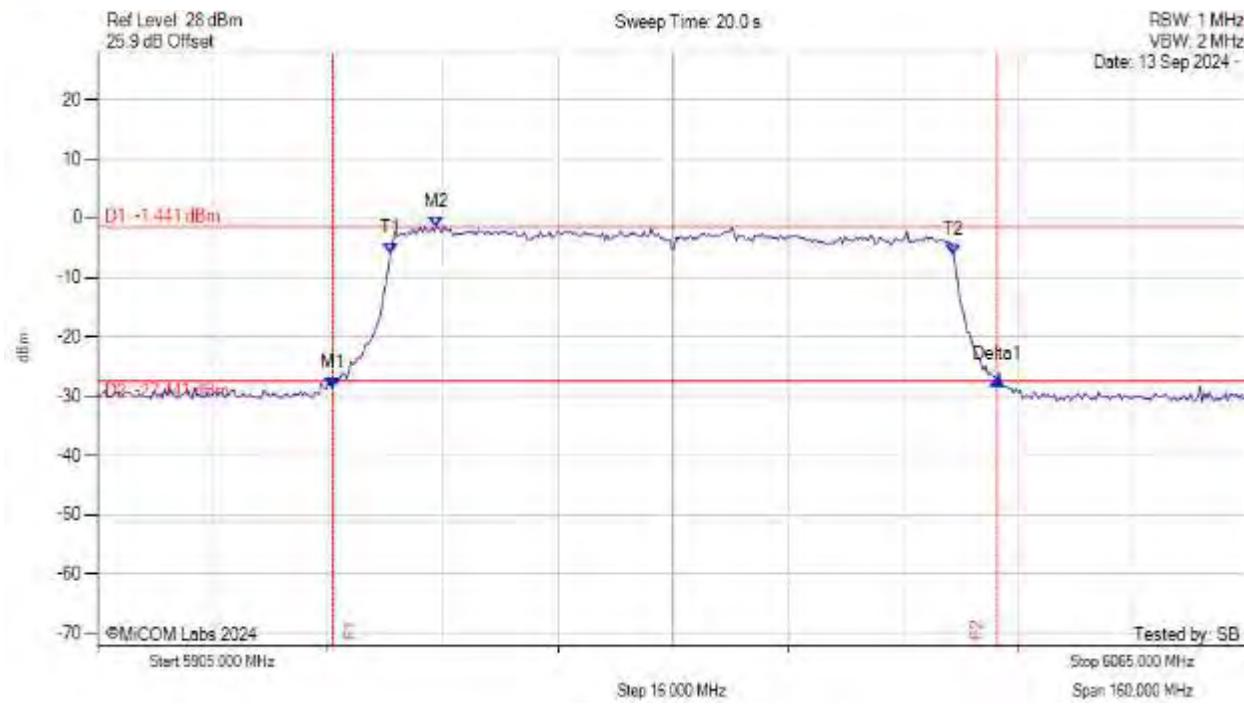
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6383.116 MHz : -26.744 dBm M2 : 6422.234 MHz : -0.440 dBm Delta1 : 44.088 MHz : 0.626 dB T1 : 6386.002 MHz : -4.583 dBm T2 : 6424.158 MHz : -5.880 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.088 MHz Measured 99% Bandwidth: 38.156 MHz

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26 dB & 99% BANDWIDTH



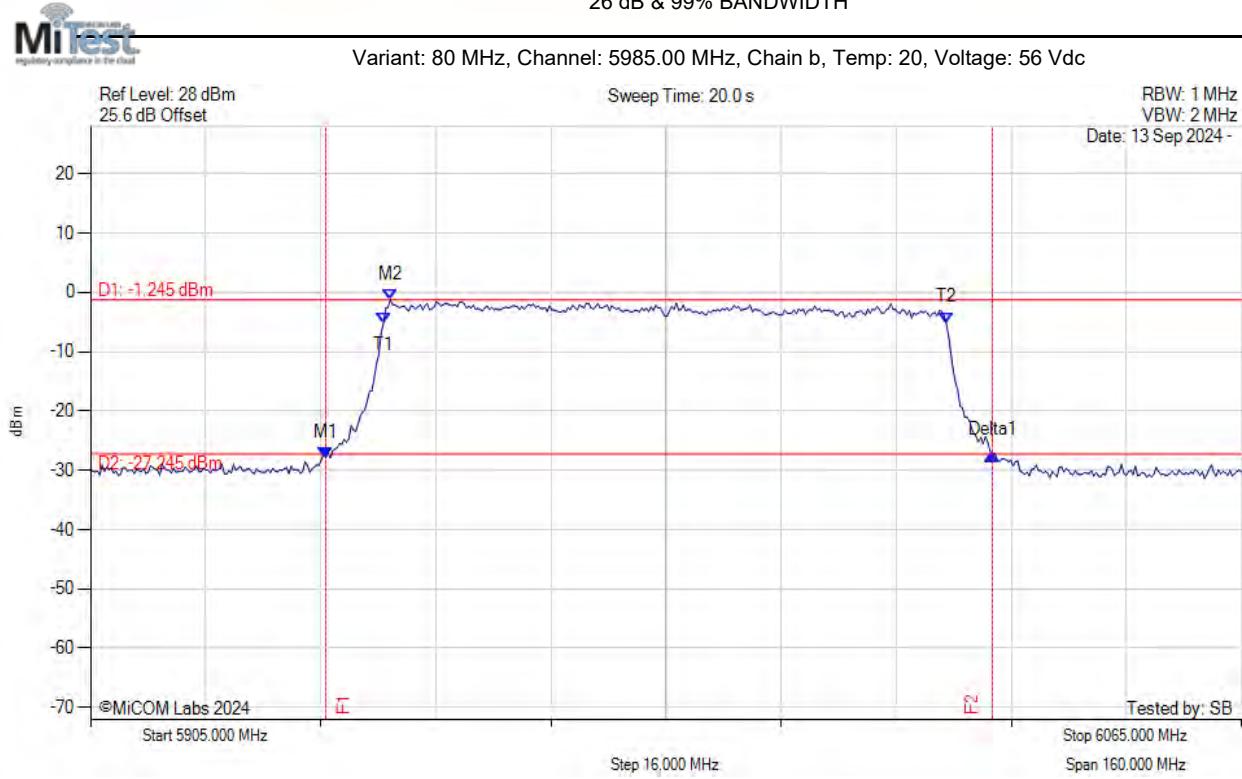
Variant: 80 MHz, Channel: 5985.00 MHz, Chain a, Temp: 20, Voltage: 56 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5937.705 MHz : -28.585 dBm M2 : 5952.134 MHz : -1.441 dBm Delta1 : 92.345 MHz : 1.338 dB T1 : 5945.721 MHz : -5.994 dBm T2 : 6023.958 MHz : -6.055 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 92.345 MHz Measured 99% Bandwidth: 78.236 MHz

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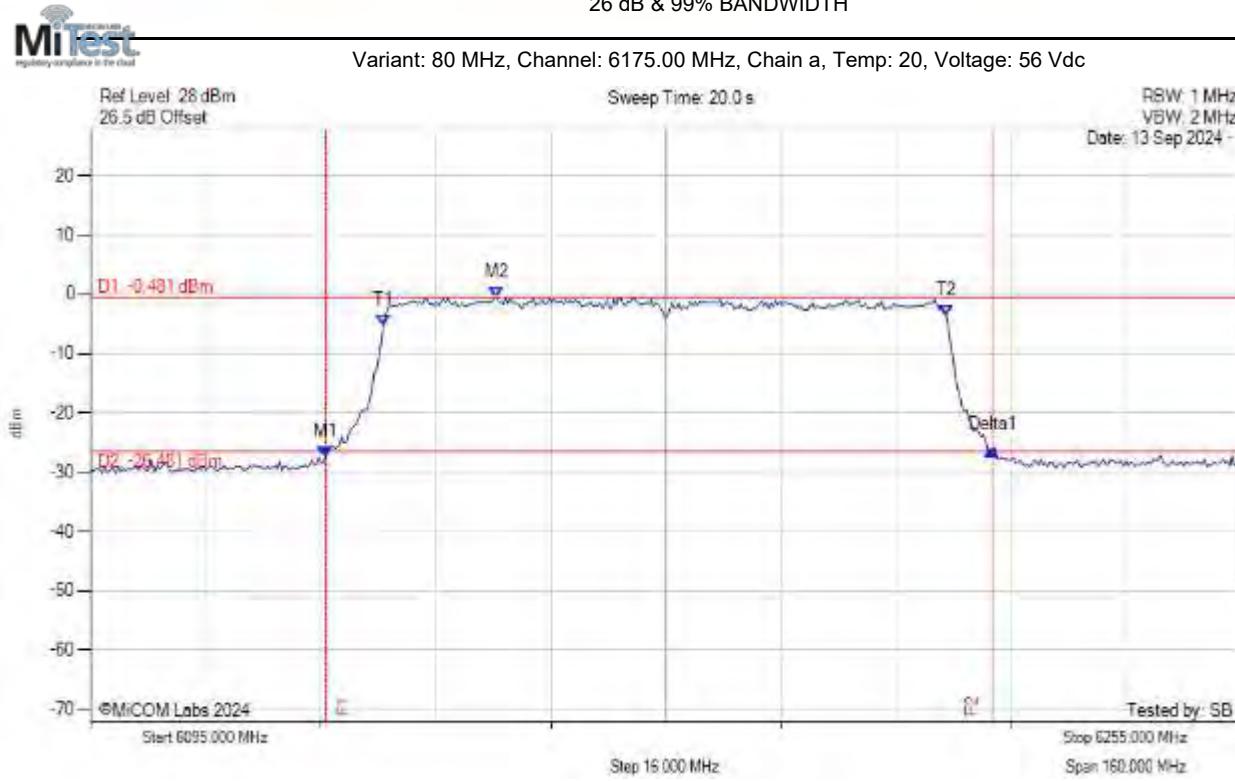
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5937.705 MHz : -27.849 dBm M2 : 5946.683 MHz : -1.245 dBm Delta1 : 92.665 MHz : 0.508 dB T1 : 5945.721 MHz : -5.244 dBm T2 : 6023.958 MHz : -5.101 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 92.665 MHz Measured 99% Bandwidth: 78.236 MHz

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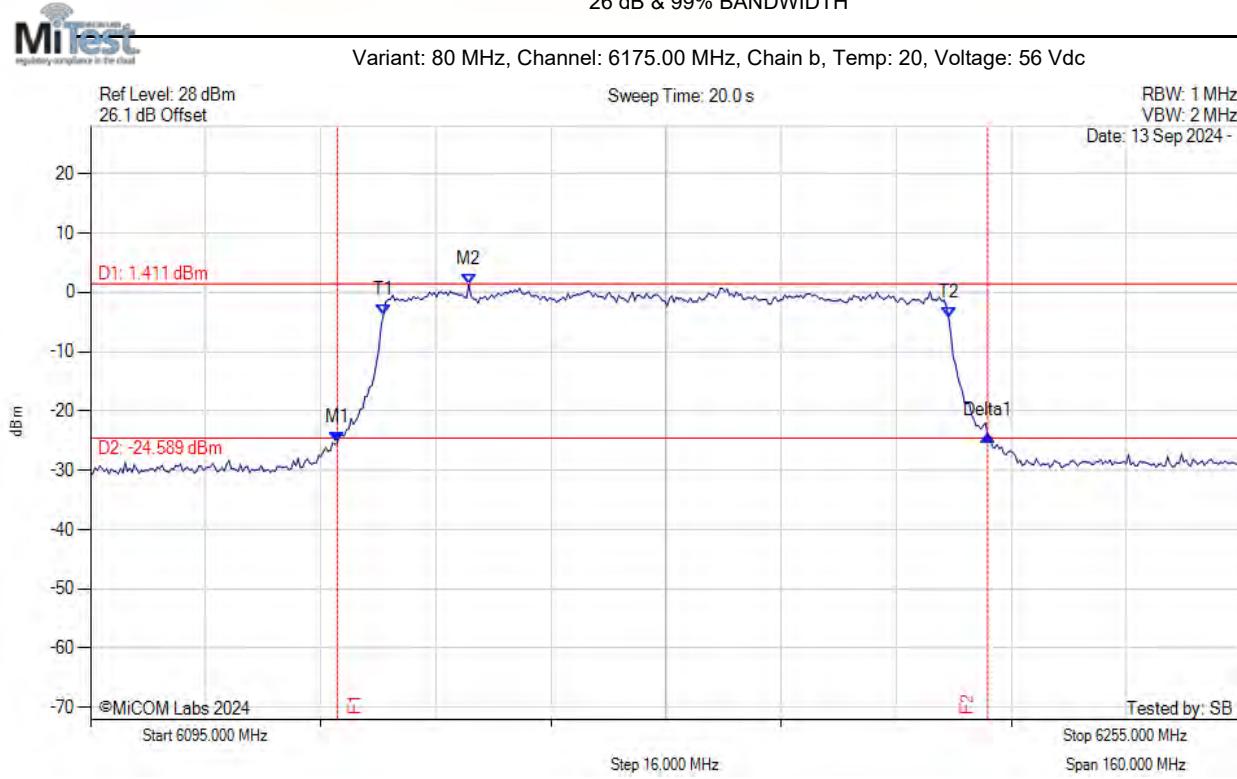
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker: Frequency: Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6127.705 MHz : -27.395 dBm M2 : 6151.433 MHz : -0.481 dBm Delta1 : 92.665 MHz : 1.200 dB T1 : 6135.721 MHz : -5.197 dBm T2 : 6213.958 MHz : -3.499 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 92.665 MHz Measured 99% Bandwidth: 78.236 MHz

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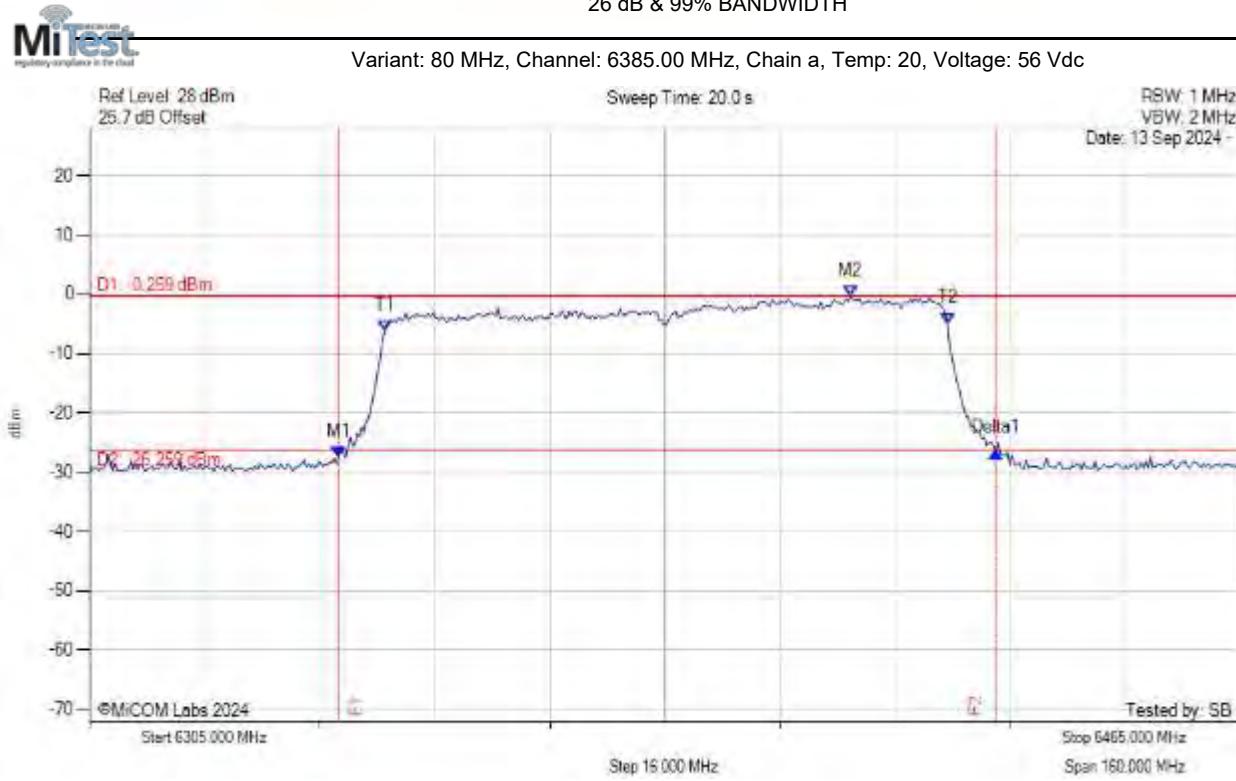
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6129.309 MHz : -25.351 dBm M2 : 6147.585 MHz : 1.411 dBm Delta1 : 90.421 MHz : 1.165 dB T1 : 6135.721 MHz : -3.775 dBm T2 : 6214.279 MHz : -4.188 dBm OBW : 78.557 MHz	Measured 26 dB Bandwidth: 90.421 MHz Measured 99% Bandwidth: 78.557 MHz

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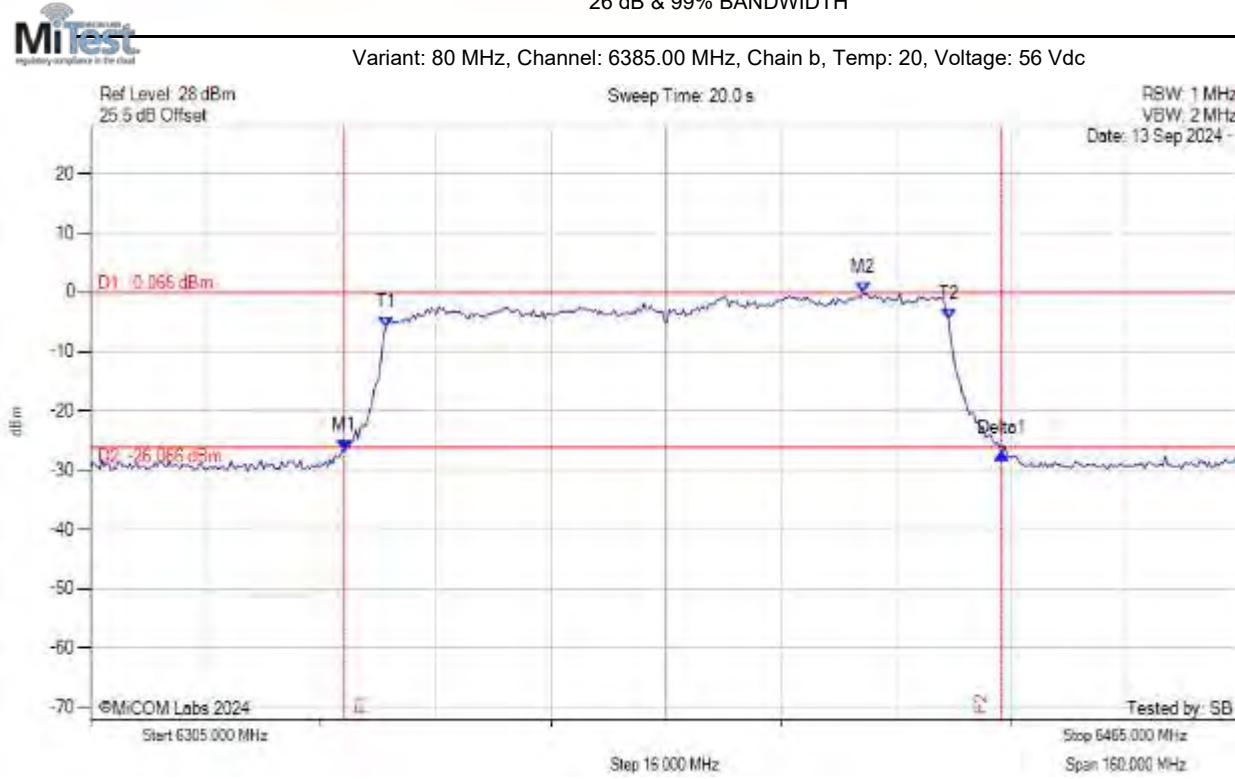
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker: Frequency: Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6339.629 MHz : -27.342 dBm M2 : 6410.812 MHz : -0.259 dBm Delta1 : 91.383 MHz : 0.580 dB T1 : 6346.042 MHz : -6.248 dBm T2 : 6424.279 MHz : -4.873 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 91.383 MHz Measured 99% Bandwidth: 78.236 MHz

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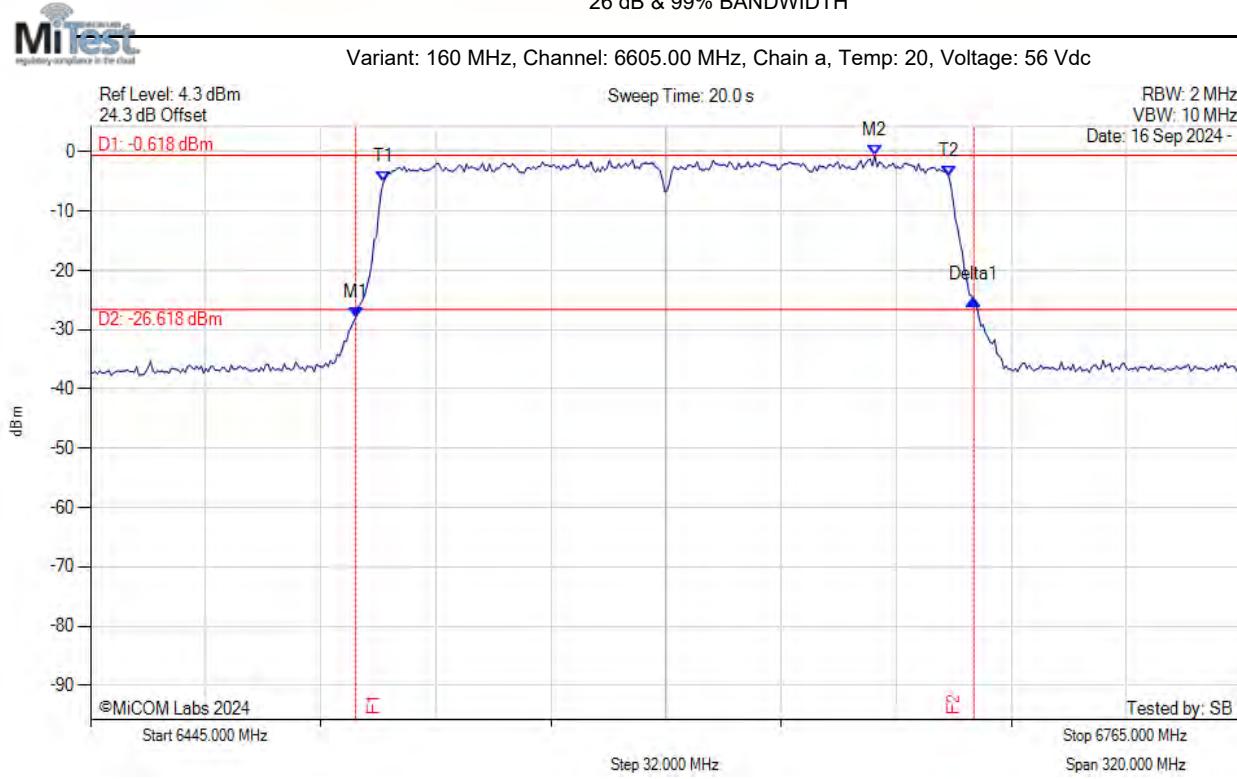
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker: Frequency: Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 6340.271 MHz : -26.789 dBm M2 : 6412.415 MHz : -0.066 dBm Delta1 : 91.383 MHz : -0.311 dB T1 : 6346.042 MHz : -5.894 dBm T2 : 6424.279 MHz : -4.414 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 91.383 MHz Measured 99% Bandwidth: 78.236 MHz

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26 dB & 99% BANDWIDTH



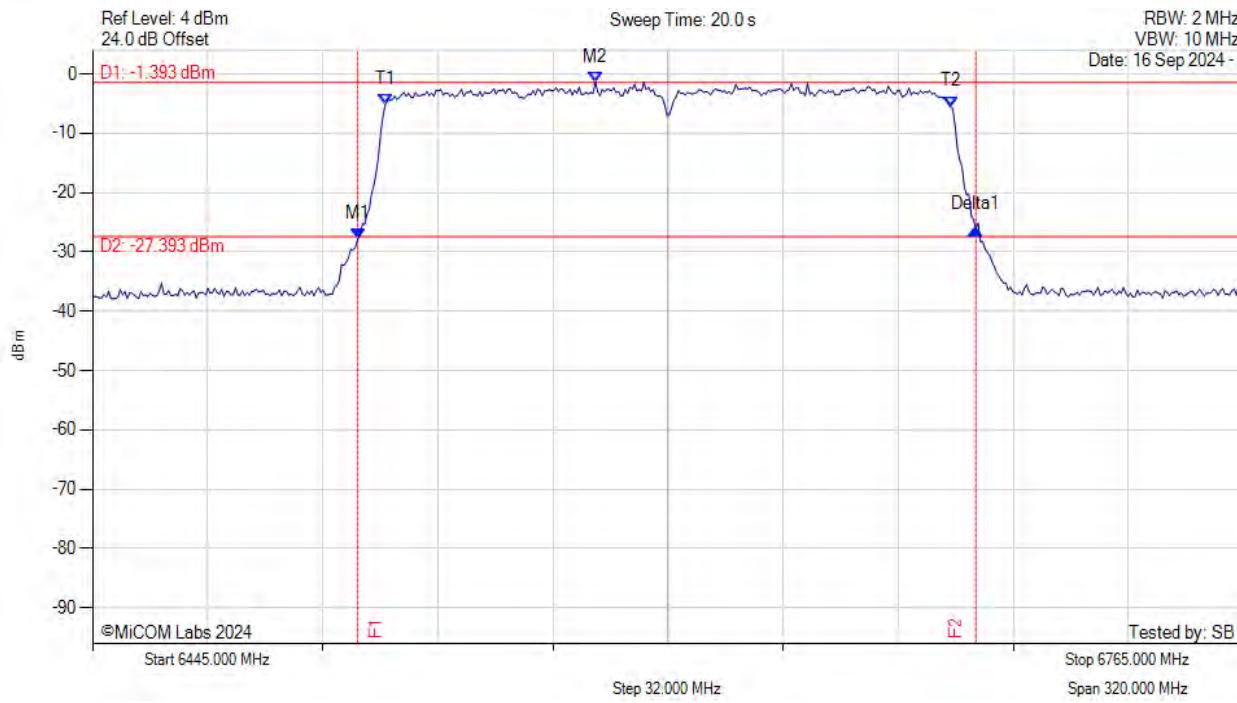
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6518.747 MHz : -27.878 dBm M2 : 6663.036 MHz : -0.618 dBm Delta1 : 171.864 MHz : 2.890 dB T1 : 6526.443 MHz : -5.092 dBm T2 : 6683.557 MHz : -4.099 dBm OBW : 157.114 MHz	Measured 26 dB Bandwidth: 171.864 MHz Measured 99% Bandwidth: 157.114 MHz

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26 dB & 99% BANDWIDTH



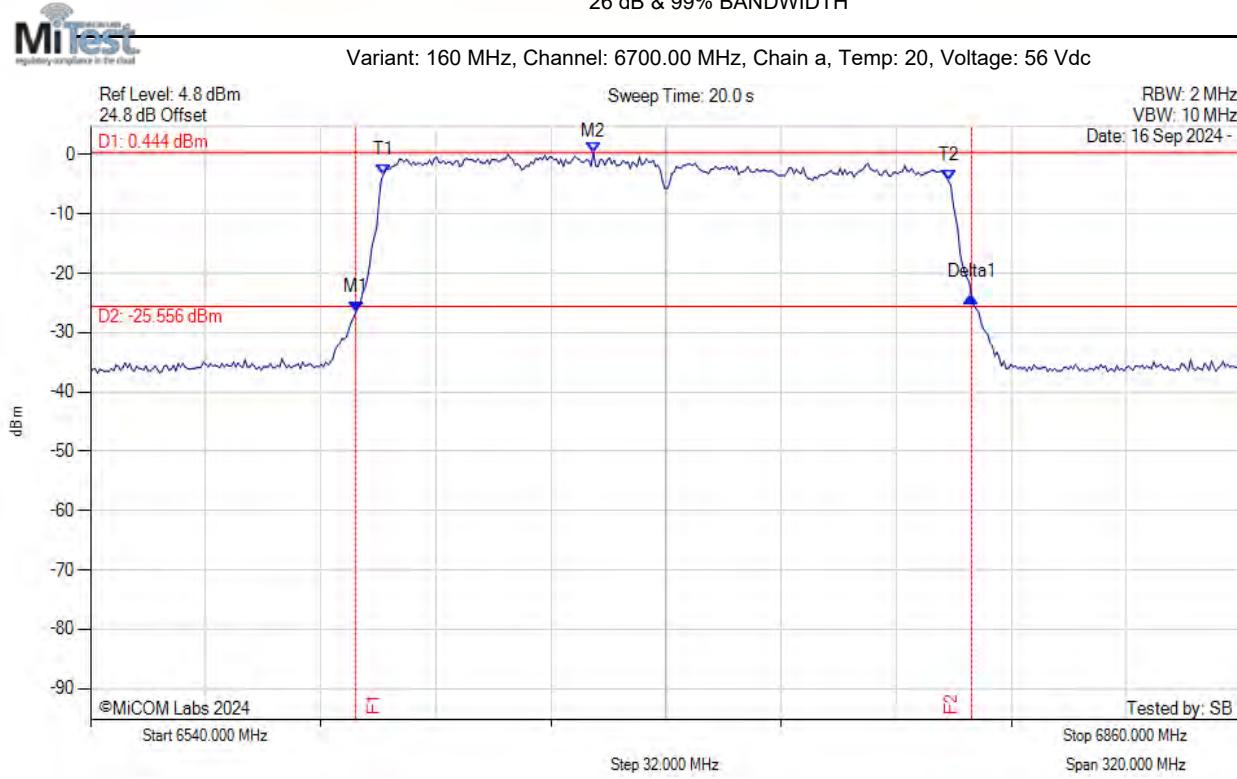
Variant: 160 MHz, Channel: 6605.00 MHz, Chain b, Temp: 20, Voltage: 56 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6518.747 MHz : -27.783 dBm M2 : 6584.800 MHz : -1.393 dBm Delta1 : 171.864 MHz : 1.670 dB T1 : 6526.443 MHz : -5.083 dBm T2 : 6683.557 MHz : -5.508 dBm OBW : 157.114 MHz	Measured 26 dB Bandwidth: 171.864 MHz Measured 99% Bandwidth: 157.114 MHz

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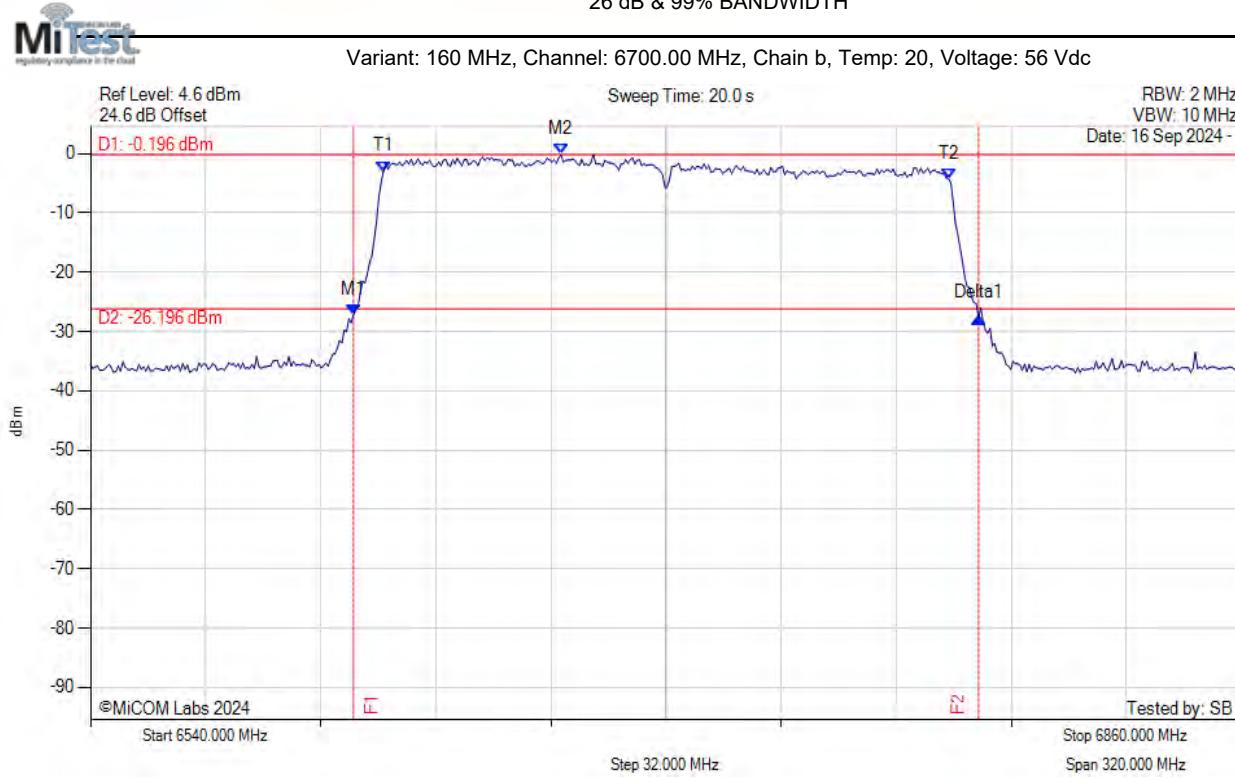
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6613.747 MHz : -26.587 dBm M2 : 6679.800 MHz : 0.444 dBm Delta1 : 171.222 MHz : 2.654 dB T1 : 6621.443 MHz : -3.333 dBm T2 : 6778.557 MHz : -4.437 dBm OBW : 157.114 MHz	Measured 26 dB Bandwidth: 171.222 MHz Measured 99% Bandwidth: 157.114 MHz

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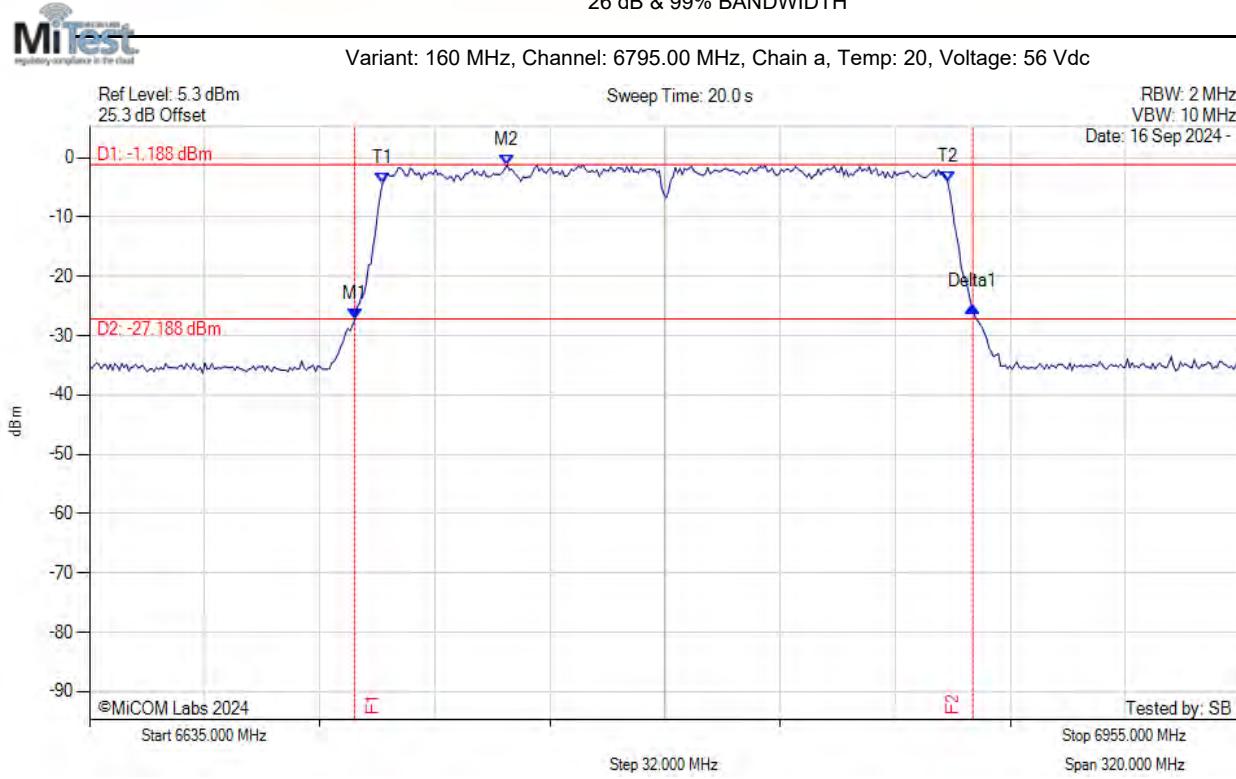
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6613.106 MHz : -27.183 dBm M2 : 6670.822 MHz : -0.196 dBm Delta1 : 173.788 MHz : -0.525 dB T1 : 6621.443 MHz : -3.027 dBm T2 : 6778.557 MHz : -4.208 dBm OBW : 157.114 MHz	Measured 26 dB Bandwidth: 173.788 MHz Measured 99% Bandwidth: 157.114 MHz

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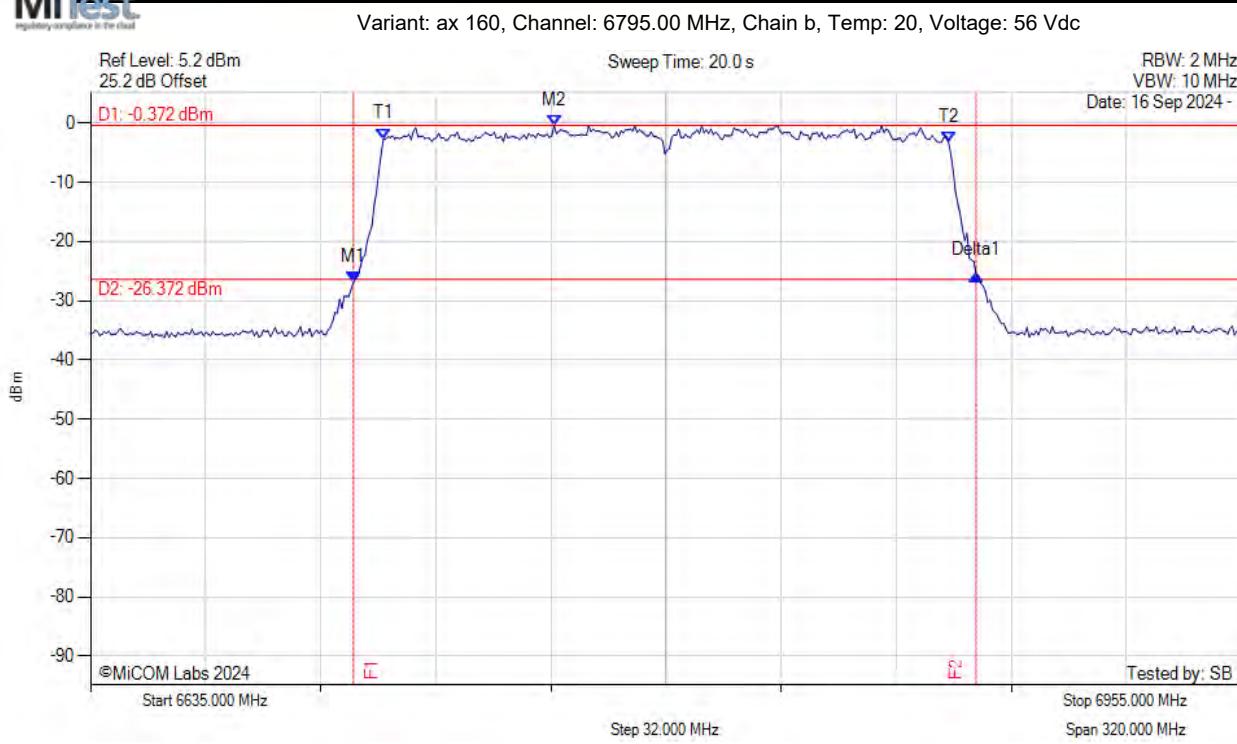
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6708.747 MHz : -27.270 dBm M2 : 6751.072 MHz : -1.188 dBm Delta1 : 171.864 MHz : 2.081 dB T1 : 6716.443 MHz : -4.320 dBm T2 : 6873.557 MHz : -4.092 dBm OBW : 157.114 MHz	Channel Frequency: 6795.00 MHz

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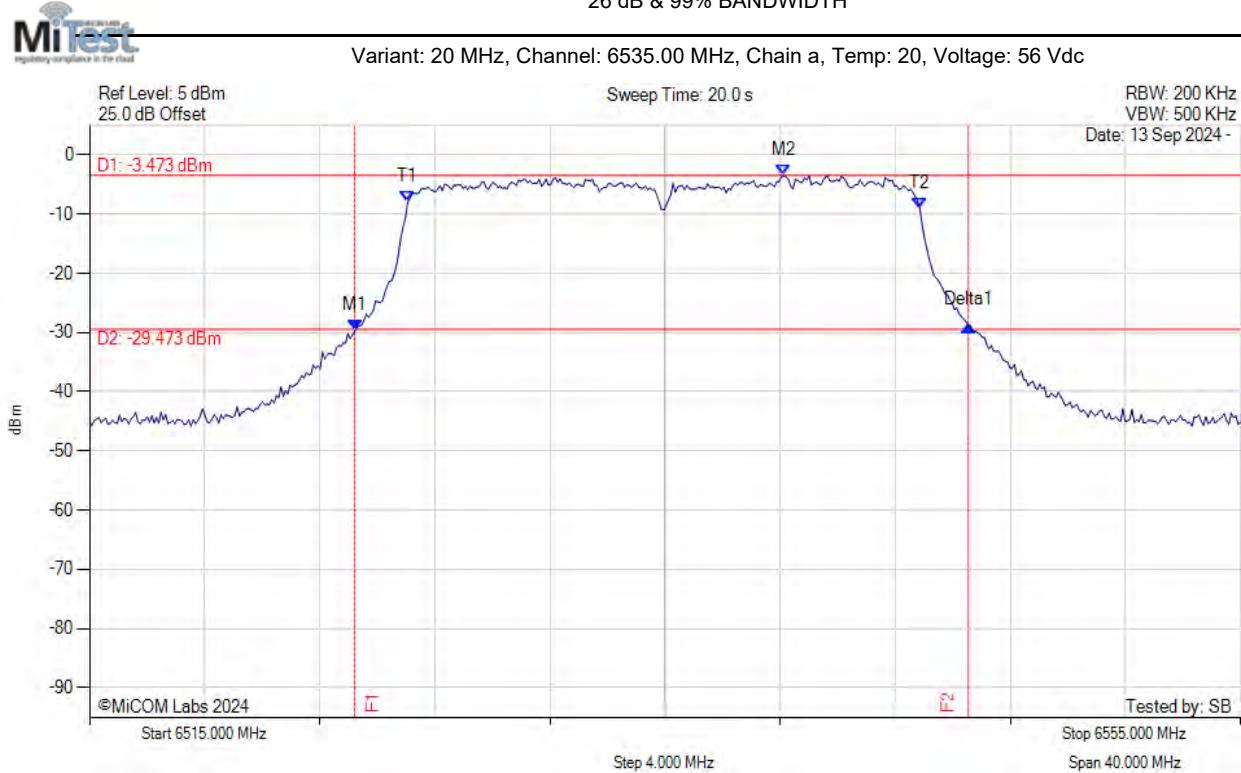
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6708.106 MHz : -26.848 dBm M2 : 6763.898 MHz : -0.372 dBm Delta1 : 173.146 MHz : 1.182 dB T1 : 6716.443 MHz : -2.650 dBm T2 : 6873.557 MHz : -3.199 dBm OBW : 157.114 MHz	Measured 26 dB Bandwidth: 173.146 MHz Measured 99% Bandwidth: 157.114 MHz

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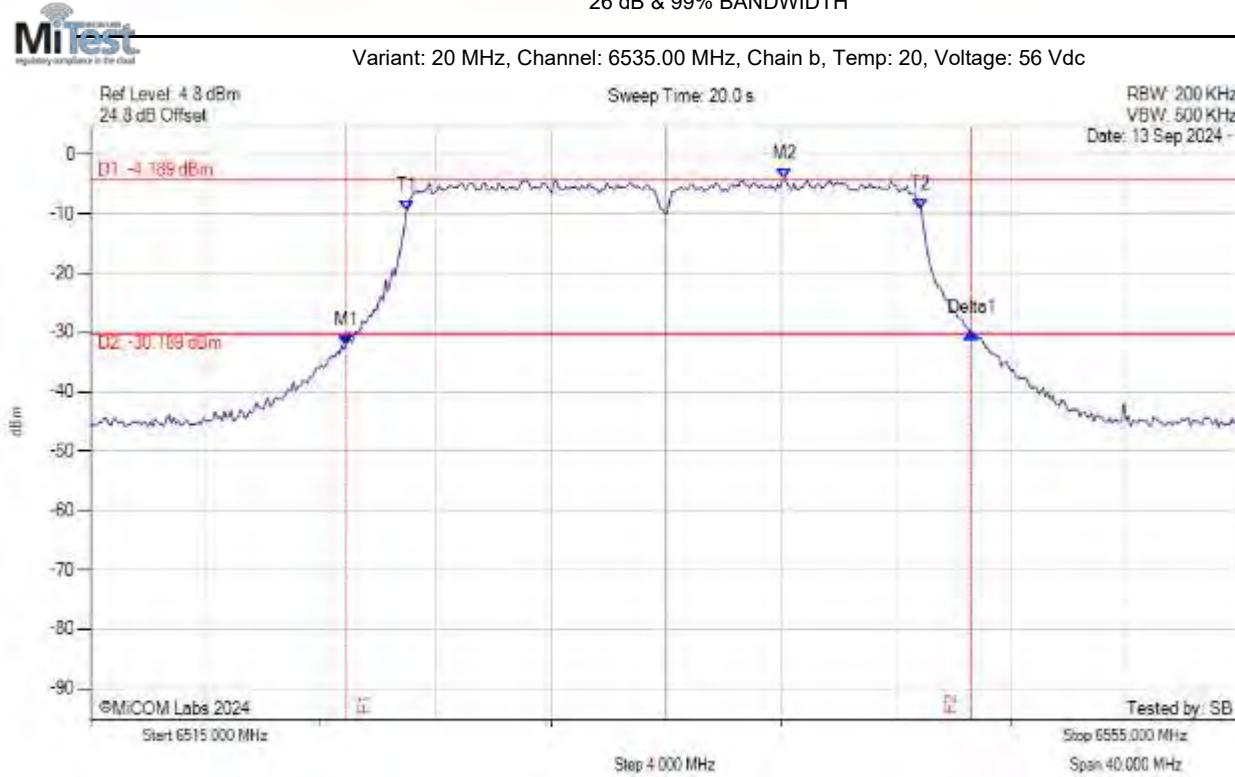
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6524.218 MHz : -29.696 dBm M2 : 6539.128 MHz : -3.473 dBm Delta1 : 21.323 MHz : 0.893 dB T1 : 6526.062 MHz : -7.920 dBm T2 : 6543.858 MHz : -9.102 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 21.323 MHz Measured 99% Bandwidth: 17.796 MHz

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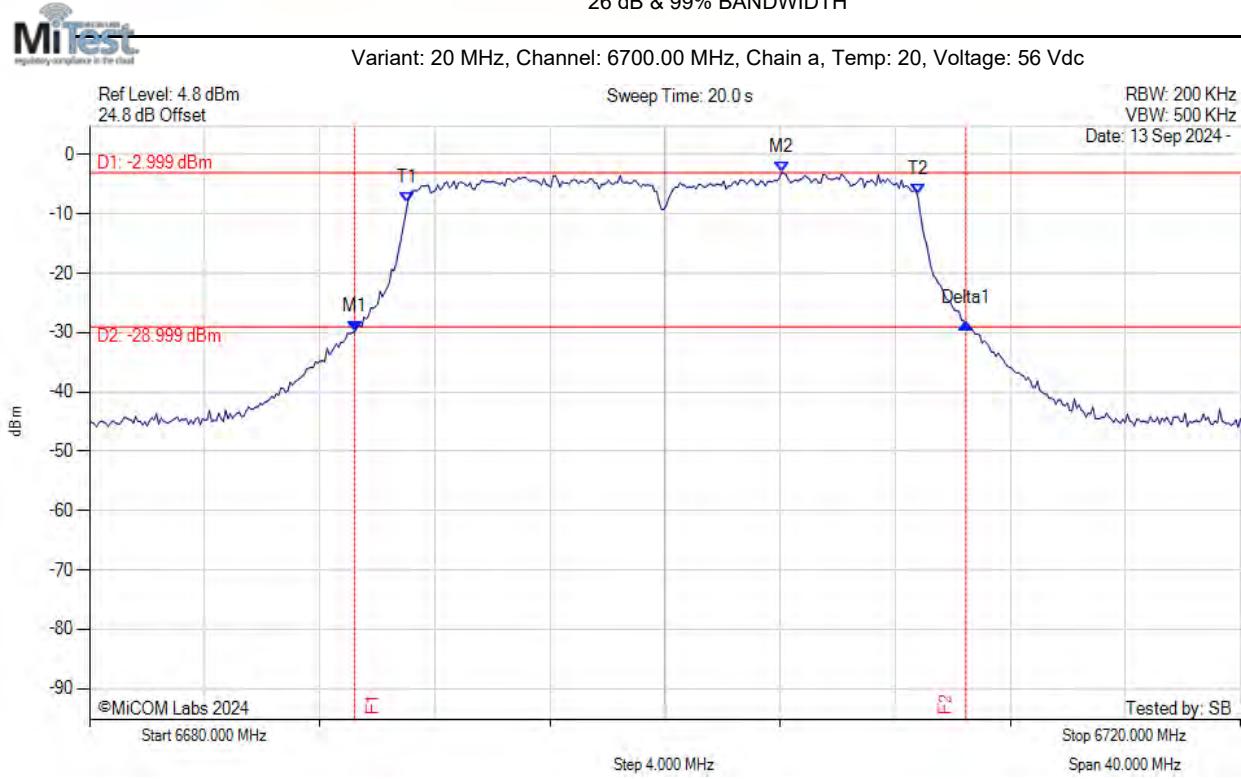
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6523.898 MHz : -32.086 dBm M2 : 6539.128 MHz : -4.189 dBm Delta1 : 21.723 MHz : 2.048 dB T1 : 6525.982 MHz : -9.518 dBm T2 : 6543.858 MHz : -9.162 dBm OBW : 17.876 MHz	Measured 26 dB Bandwidth: 21.723 MHz Measured 99% Bandwidth: 17.876 MHz

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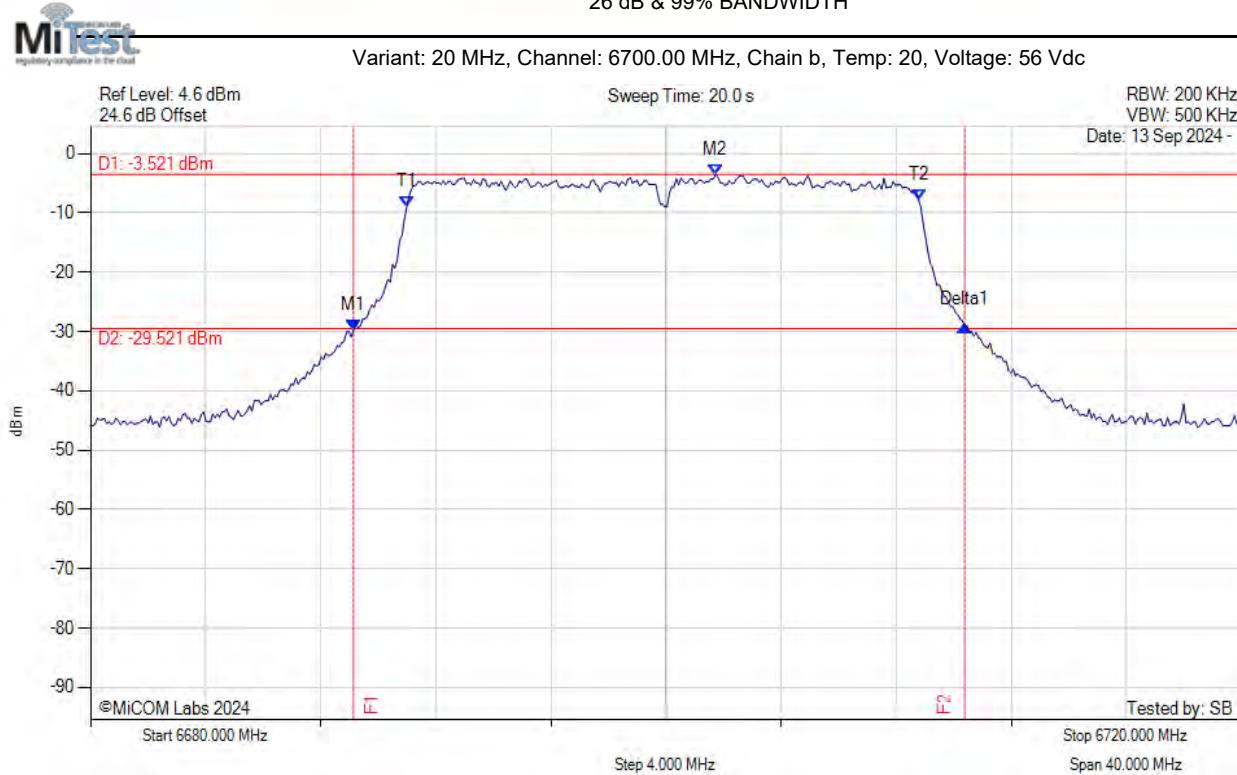
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6689.218 MHz : -29.861 dBm M2 : 6704.048 MHz : -2.999 dBm Delta1 : 21.242 MHz : 1.548 dB T1 : 6691.062 MHz : -8.006 dBm T2 : 6708.778 MHz : -6.754 dBm OBW : 17.715 MHz	Measured 26 dB Bandwidth: 21.242 MHz Measured 99% Bandwidth: 17.715 MHz

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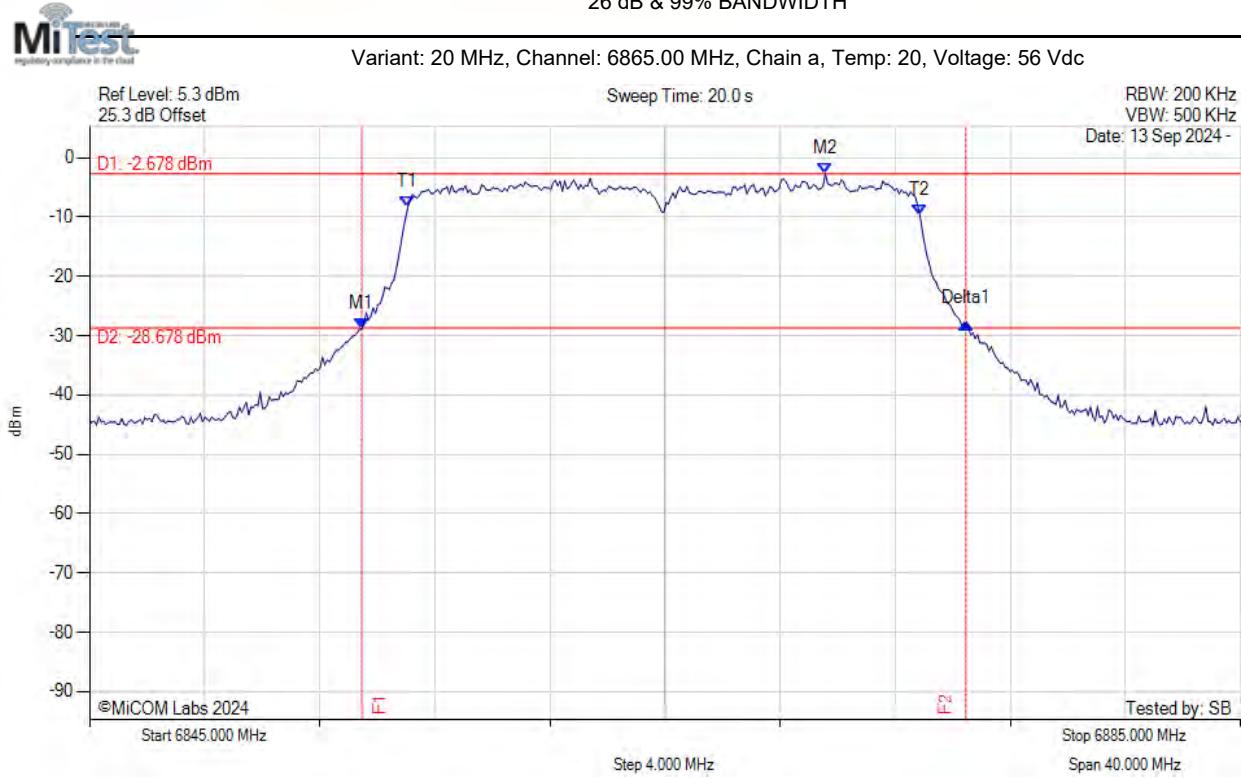
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6689.138 MHz : -29.762 dBm M2 : 6701.723 MHz : -3.521 dBm Delta1 : 21.242 MHz : 0.809 dB T1 : 6690.982 MHz : -9.087 dBm T2 : 6708.778 MHz : -7.731 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 21.242 MHz Measured 99% Bandwidth: 17.796 MHz

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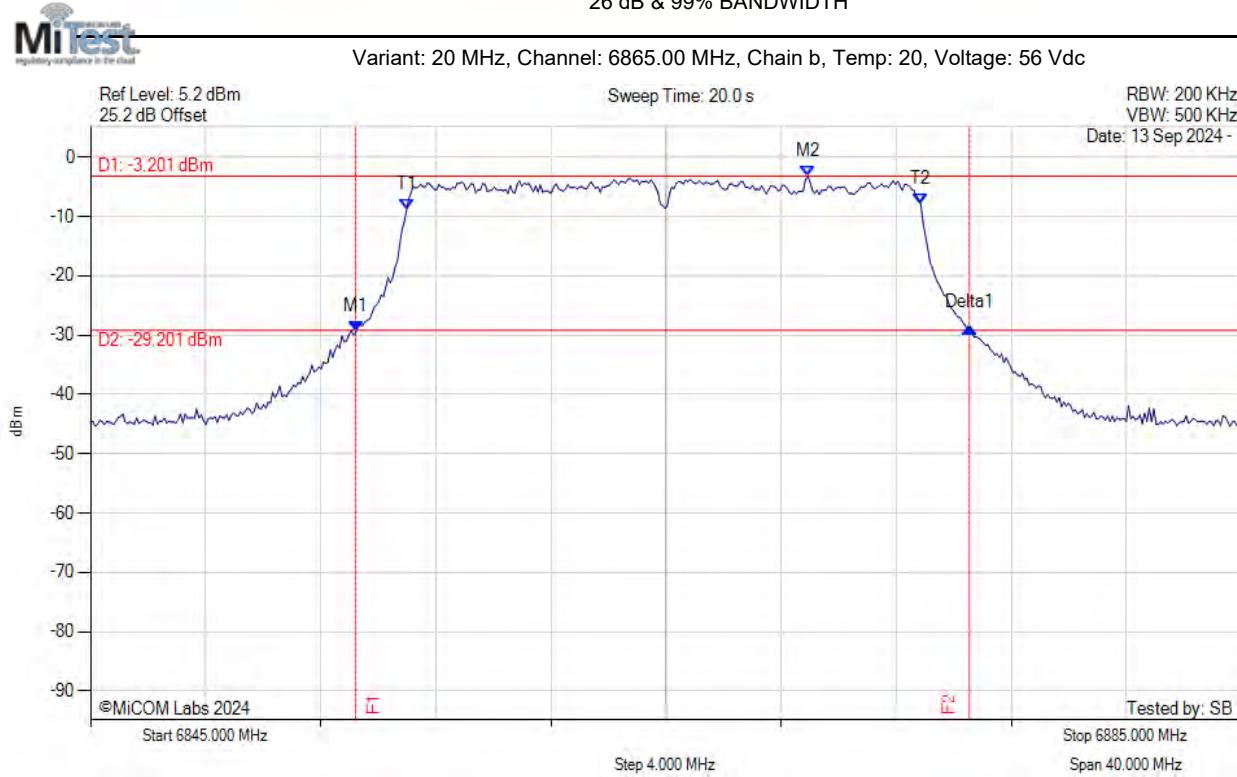
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6854.459 MHz : -28.861 dBm M2 : 6870.571 MHz : -2.678 dBm Delta1 : 21.002 MHz : 1.001 dB T1 : 6856.062 MHz : -8.375 dBm T2 : 6873.858 MHz : -9.618 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 21.002 MHz Measured 99% Bandwidth: 17.796 MHz

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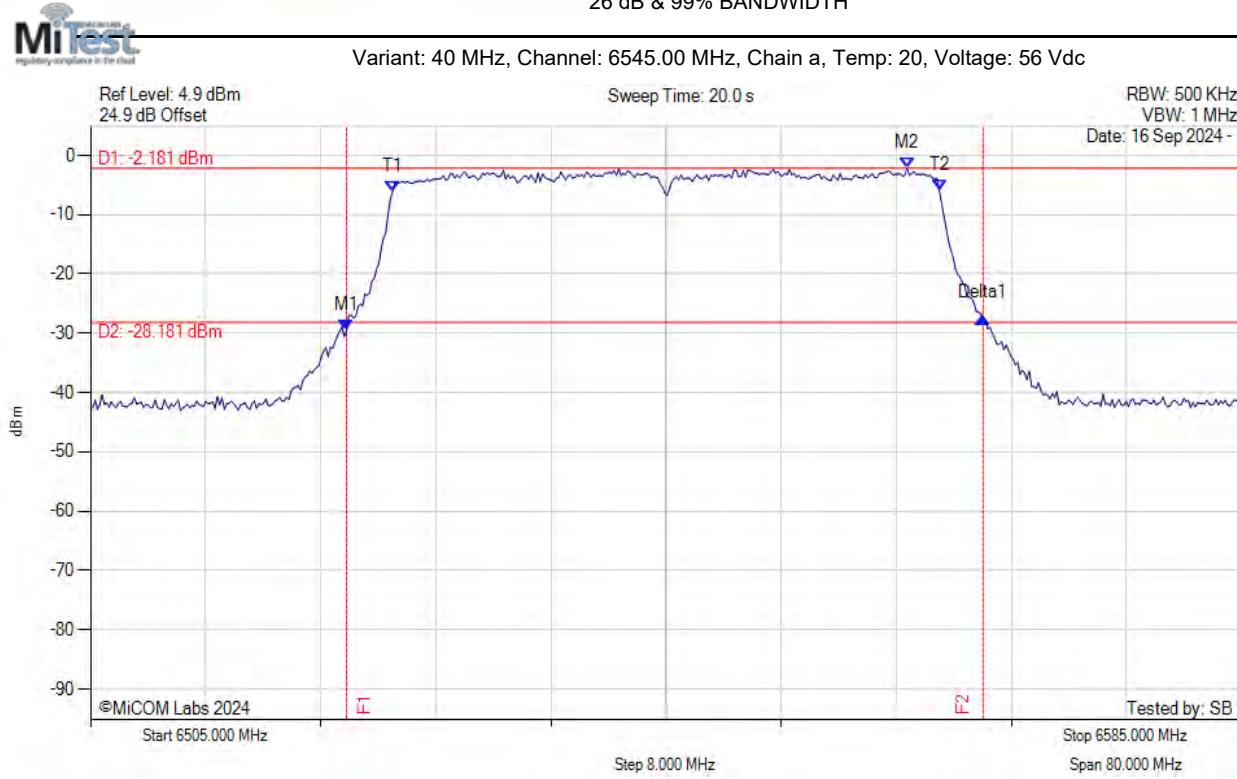
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6854.218 MHz : -29.498 dBm M2 : 6869.930 MHz : -3.201 dBm Delta1 : 21.323 MHz : 0.811 dB T1 : 6855.982 MHz : -8.933 dBm T2 : 6873.858 MHz : -7.989 dBm OBW : 17.876 MHz	Measured 26 dB Bandwidth: 21.323 MHz Measured 99% Bandwidth: 17.876 MHz

[back to matrix](#)

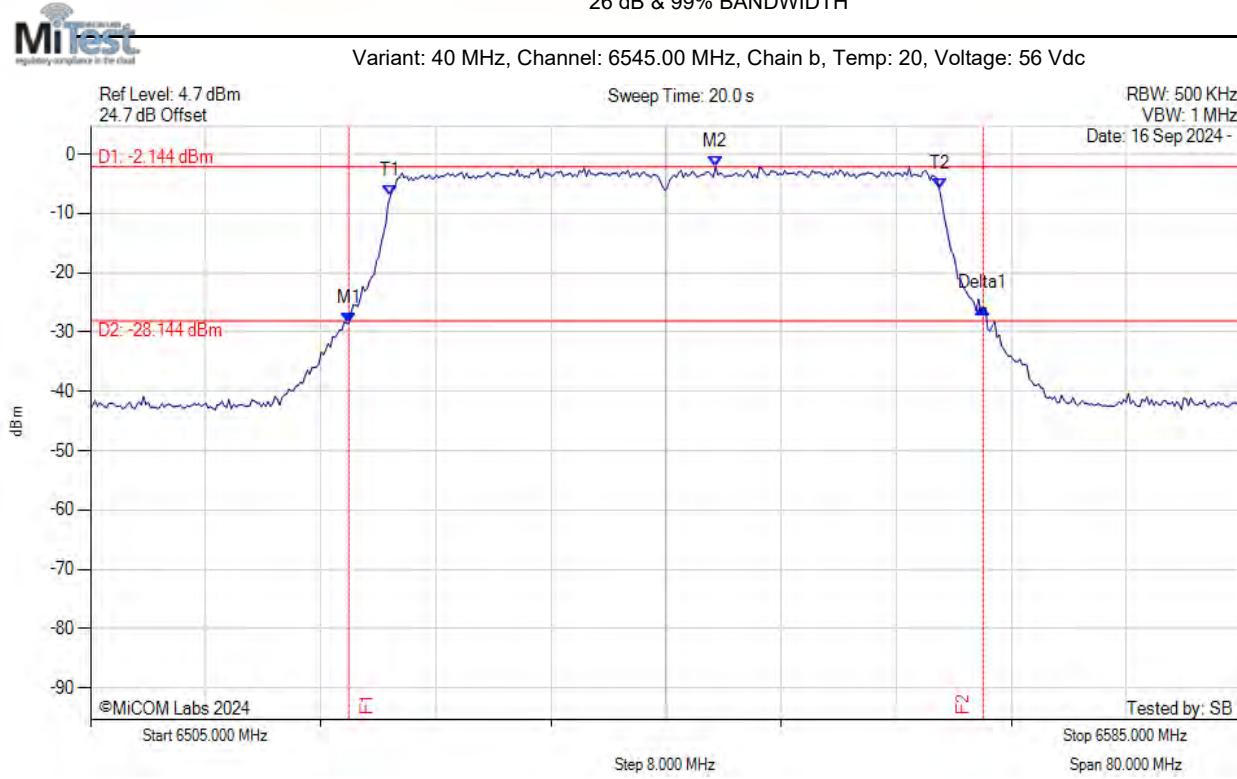
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6522.796 MHz : -29.513 dBm M2 : 6561.754 MHz : -2.181 dBm Delta1 : 44.248 MHz : 2.190 dB T1 : 6526.002 MHz : -6.019 dBm T2 : 6563.998 MHz : -5.917 dBm OBW : 37.996 MHz	Measured 26 dB Bandwidth: 44.248 MHz Measured 99% Bandwidth: 37.996 MHz

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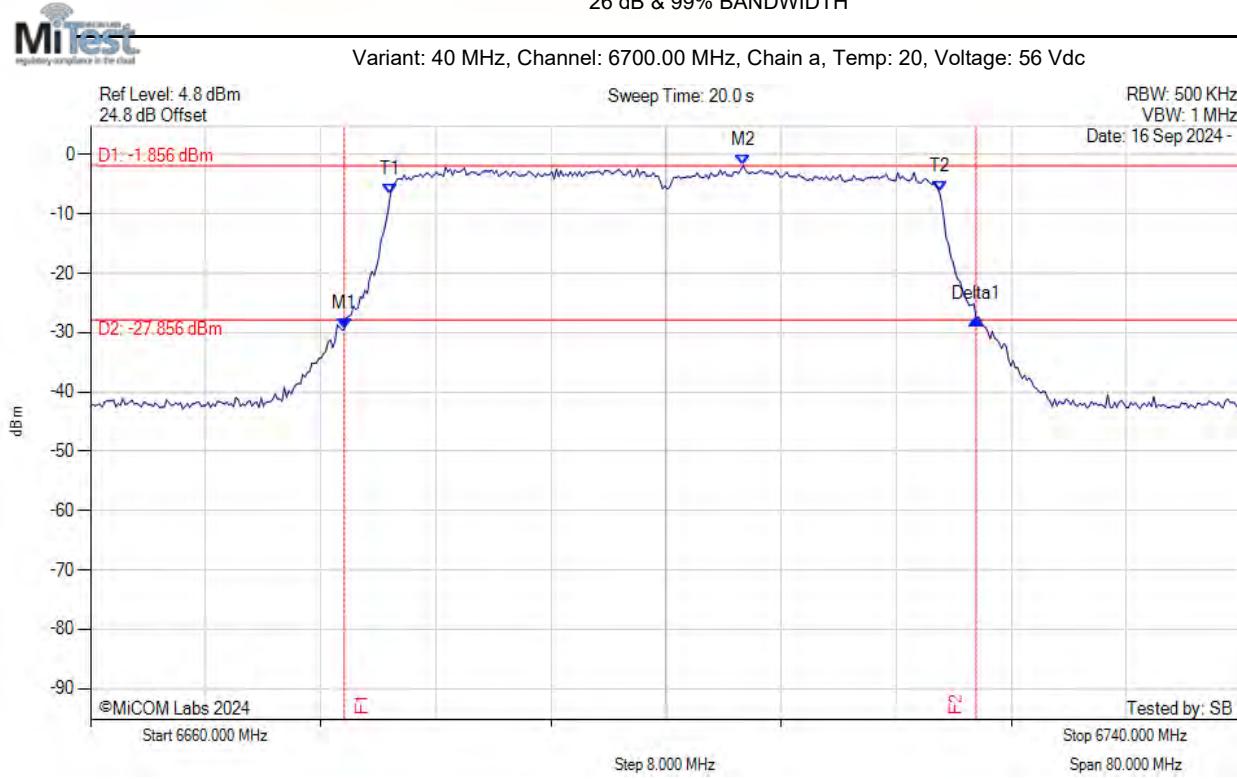
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6522.956 MHz : -28.481 dBm M2 : 6548.447 MHz : -2.144 dBm Delta1 : 44.088 MHz : 2.556 dB T1 : 6525.842 MHz : -7.110 dBm T2 : 6563.998 MHz : -5.867 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.088 MHz Measured 99% Bandwidth: 38.156 MHz

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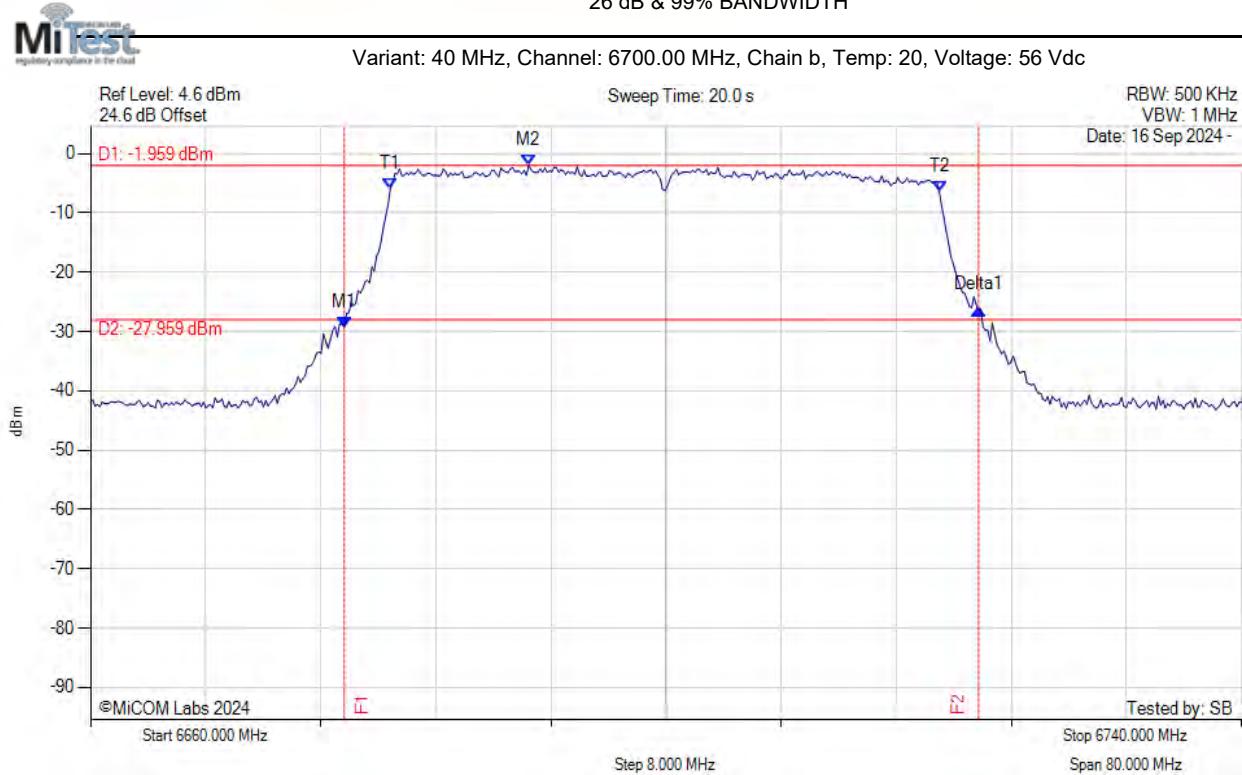
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6677.635 MHz : -29.428 dBm M2 : 6705.371 MHz : -1.856 dBm Delta1 : 43.928 MHz : 1.773 dB T1 : 6680.842 MHz : -6.762 dBm T2 : 6718.998 MHz : -6.241 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 43.928 MHz Measured 99% Bandwidth: 38.156 MHz

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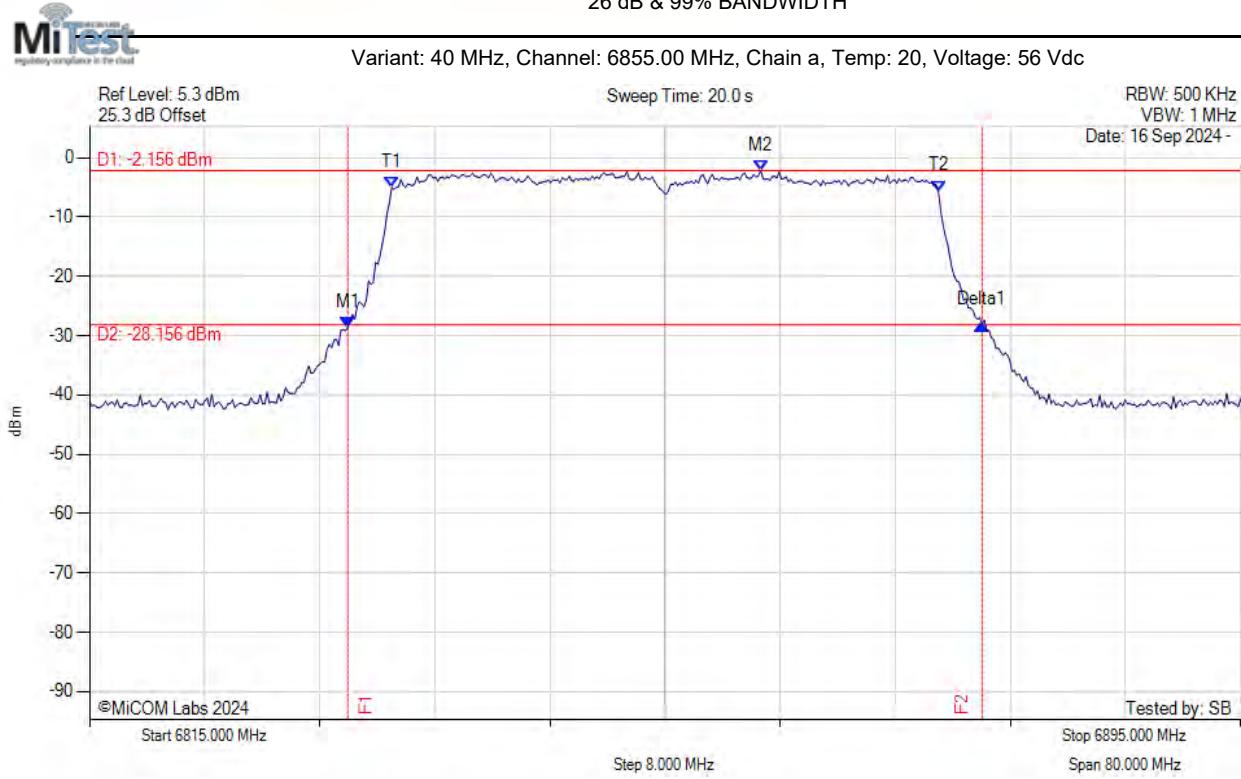
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6677.635 MHz : -29.233 dBm M2 : 6690.461 MHz : -1.959 dBm Delta1 : 44.088 MHz : 2.859 dB T1 : 6680.842 MHz : -5.847 dBm T2 : 6718.998 MHz : -6.441 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.088 MHz Measured 99% Bandwidth: 38.156 MHz

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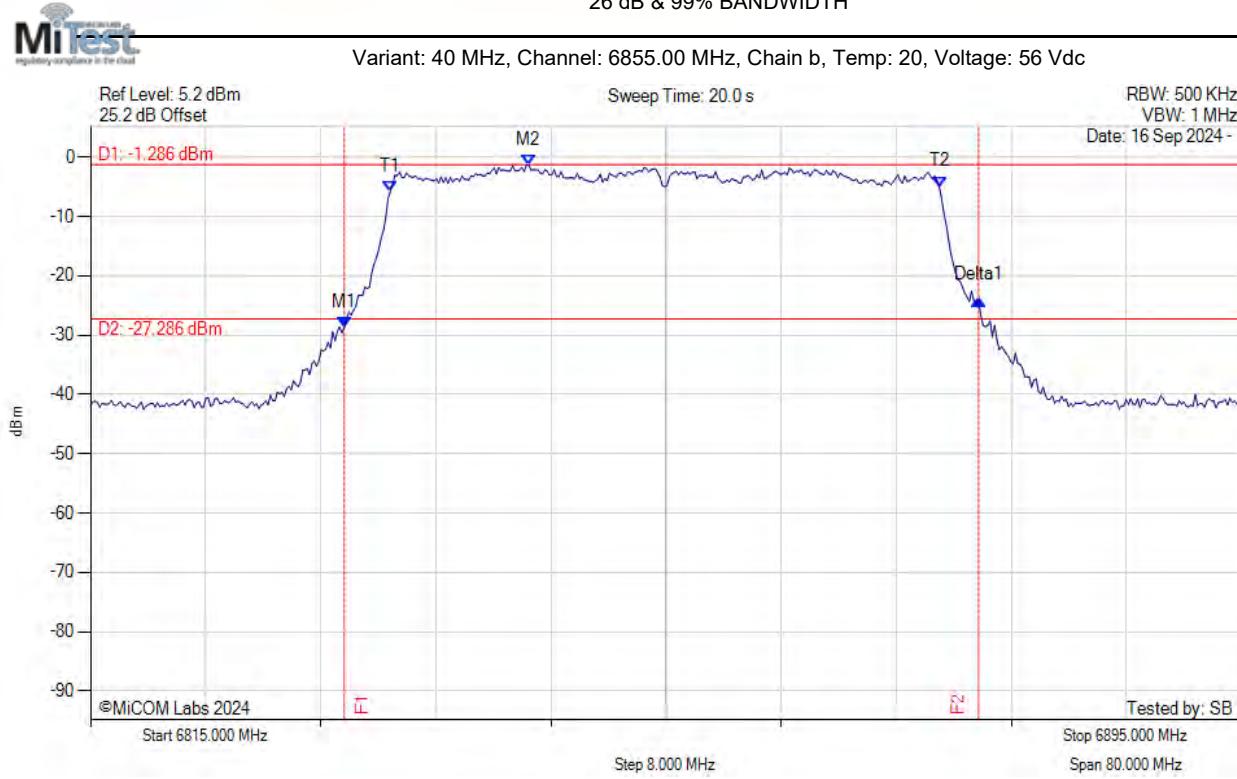
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6832.956 MHz : -28.537 dBm M2 : 6861.653 MHz : -2.156 dBm Delta1 : 44.088 MHz : 0.431 dB T1 : 6836.002 MHz : -5.040 dBm T2 : 6873.998 MHz : -5.609 dBm OBW : 37.996 MHz	Measured 26 dB Bandwidth: 44.088 MHz Measured 99% Bandwidth: 37.996 MHz

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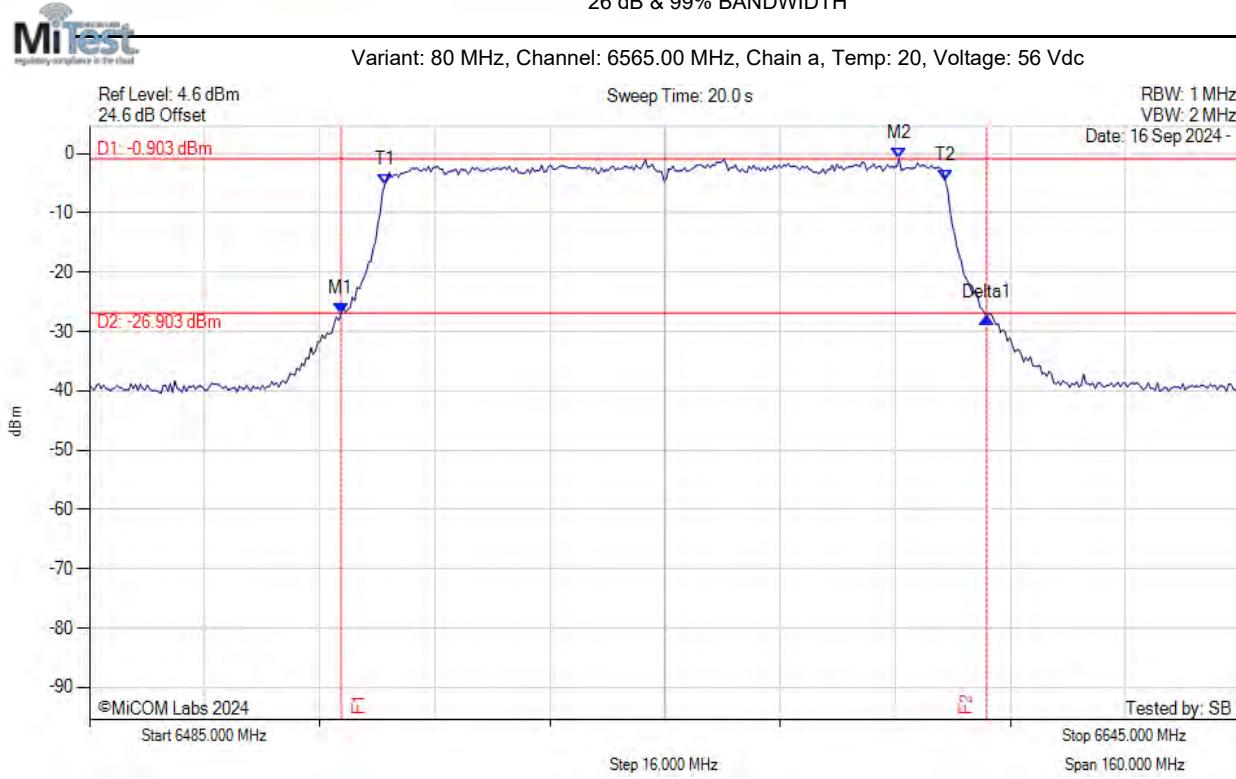
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6832.635 MHz : -28.723 dBm M2 : 6845.461 MHz : -1.286 dBm Delta1 : 44.088 MHz : 4.751 dB T1 : 6835.842 MHz : -5.782 dBm T2 : 6873.998 MHz : -5.001 dBm OBW : 38.156 MHz	Measured 26 dB Bandwidth: 44.088 MHz Measured 99% Bandwidth: 38.156 MHz

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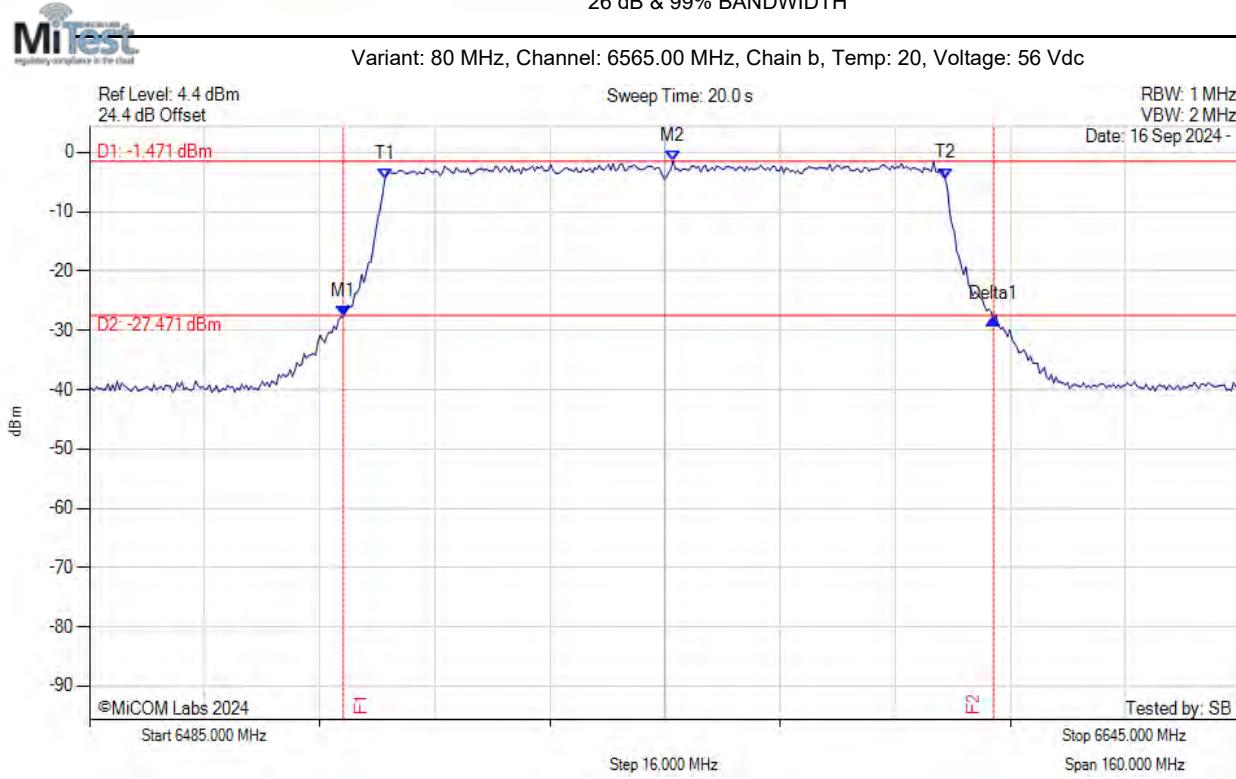
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6519.950 MHz : -27.053 dBm M2 : 6597.545 MHz : -0.903 dBm Delta1 : 89.780 MHz : -0.578 dB T1 : 6526.042 MHz : -5.217 dBm T2 : 6603.958 MHz : -4.586 dBm OBW : 77.916 MHz	Measured 26 dB Bandwidth: 89.780 MHz Measured 99% Bandwidth: 77.916 MHz

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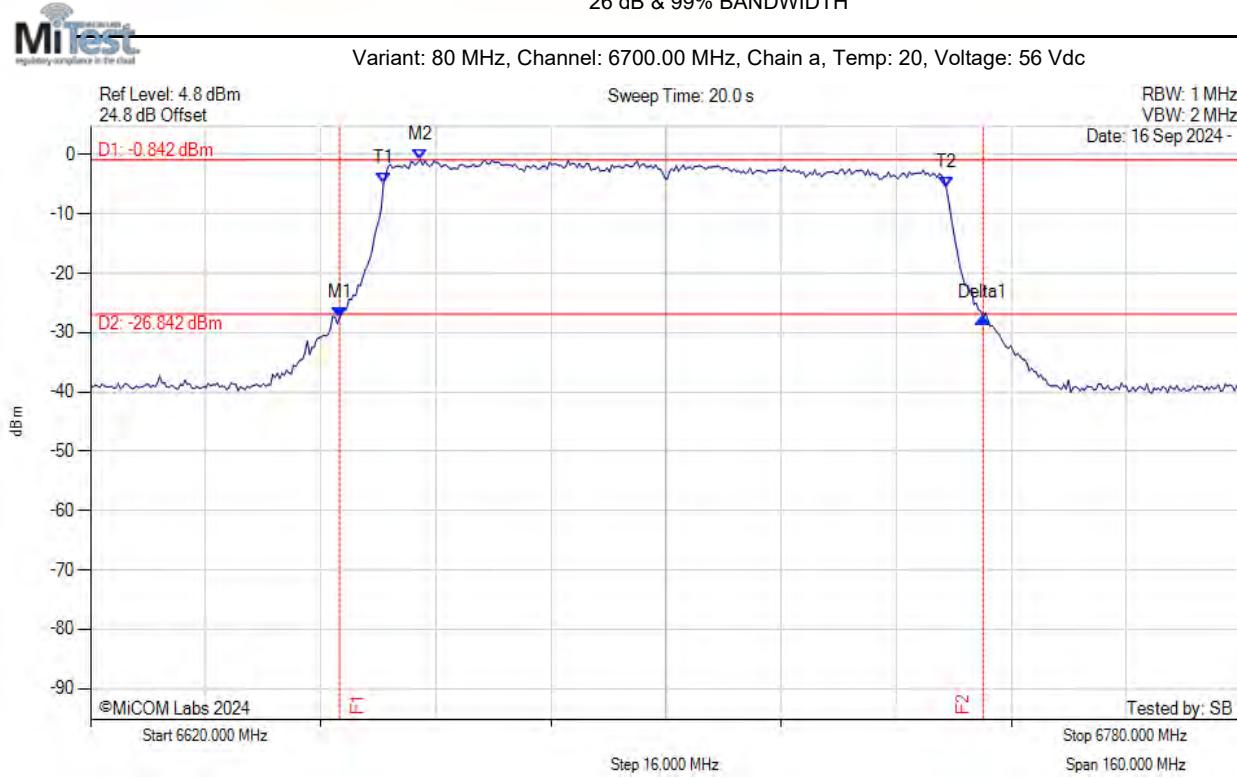
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6520.271 MHz : -27.658 dBm M2 : 6566.122 MHz : -1.471 dBm Delta1 : 90.421 MHz : -0.557 dB T1 : 6526.042 MHz : -4.538 dBm T2 : 6603.958 MHz : -4.392 dBm OBW : 77.916 MHz	Measured 26 dB Bandwidth: 90.421 MHz Measured 99% Bandwidth: 77.916 MHz

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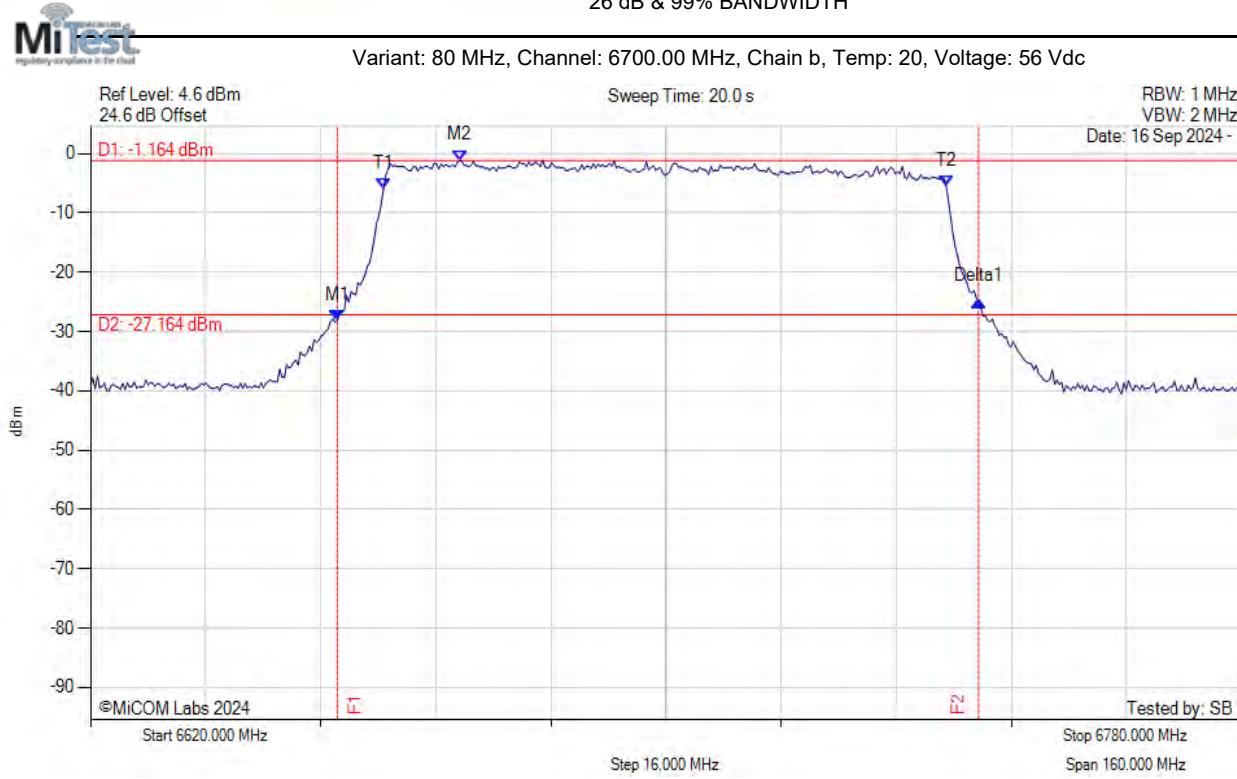
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6654.629 MHz : -27.415 dBm M2 : 6665.852 MHz : -0.842 dBm Delta1 : 89.459 MHz : -0.098 dB T1 : 6660.721 MHz : -4.872 dBm T2 : 6738.958 MHz : -5.538 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 89.459 MHz Measured 99% Bandwidth: 78.236 MHz

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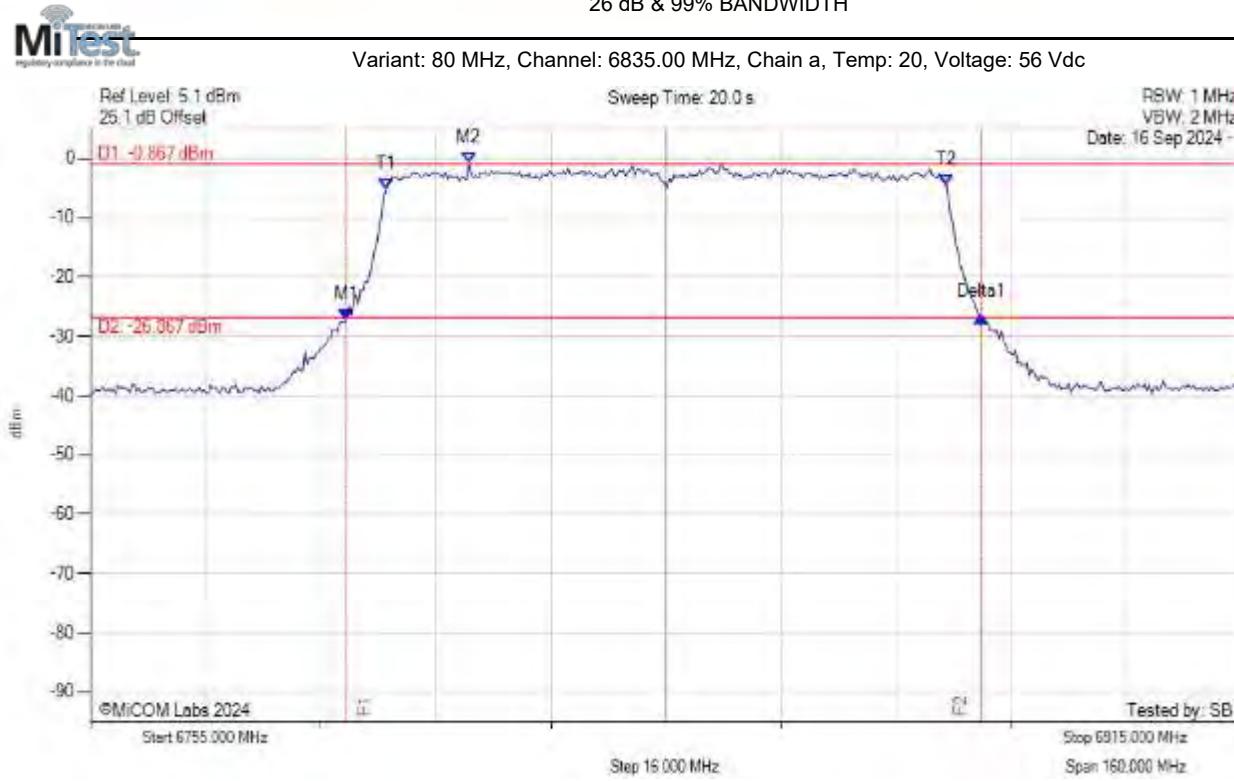
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6654.309 MHz : -28.115 dBm M2 : 6671.303 MHz : -1.164 dBm Delta1 : 89.138 MHz : 3.254 dB T1 : 6660.721 MHz : -5.969 dBm T2 : 6738.958 MHz : -5.426 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 89.138 MHz Measured 99% Bandwidth: 78.236 MHz

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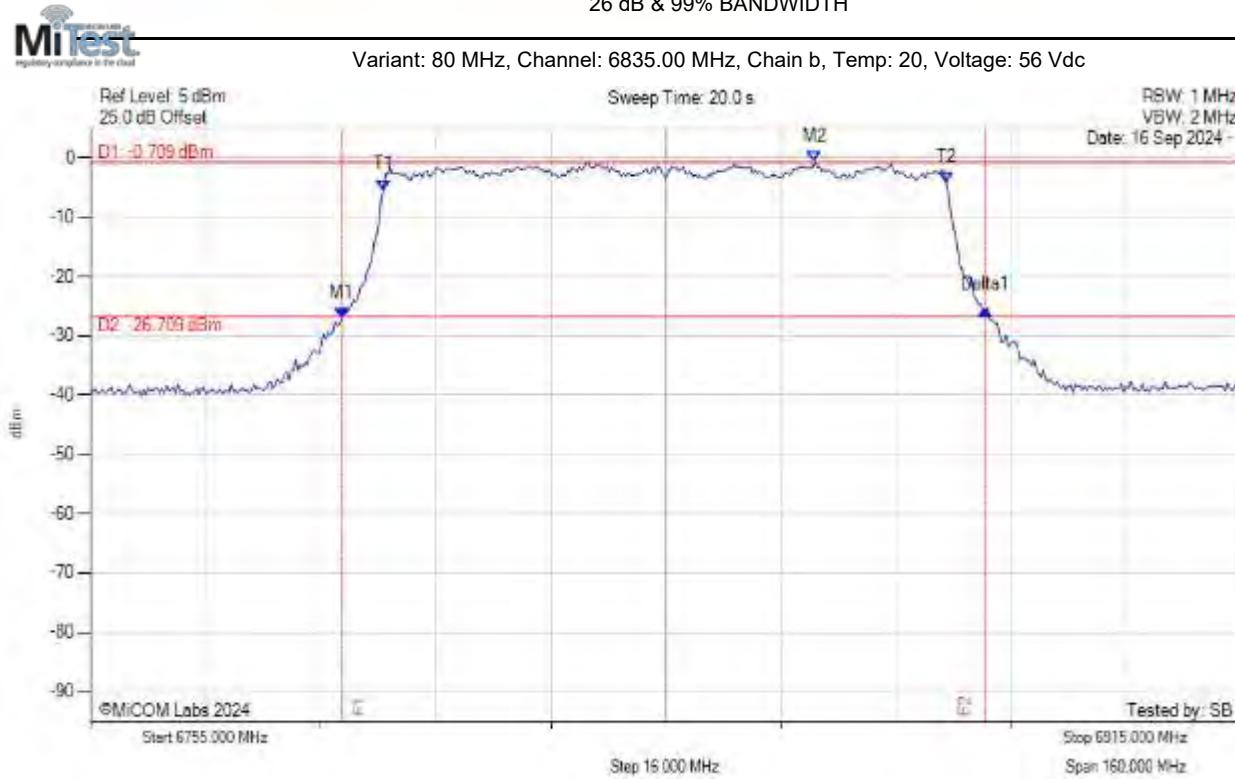
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6790.591 MHz : -27.133 dBm M2 : 6807.585 MHz : -0.867 dBm Delta1 : 88.176 MHz : 0.472 dB T1 : 6796.042 MHz : -5.309 dBm T2 : 6873.958 MHz : -4.481 dBm OBW : 77.916 MHz	Measured 26 dB Bandwidth: 88.176 MHz Measured 99% Bandwidth: 77.916 MHz

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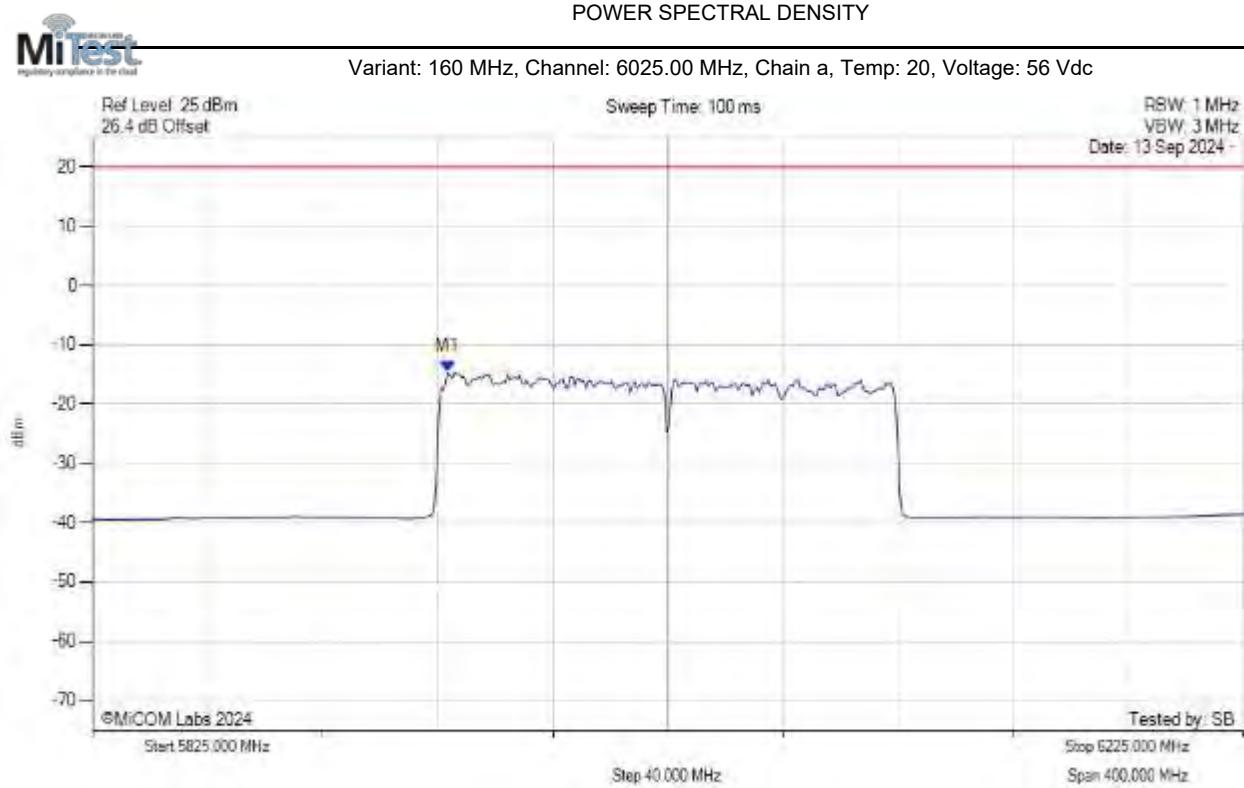
26 dB & 99% BANDWIDTH



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 10 Trace Mode = MAX HOLD	M1 : 6789.950 MHz : -27.143 dBm M2 : 6855.681 MHz : -0.709 dBm Delta1 : 89.459 MHz : 1.566 dB T1 : 6795.721 MHz : -5.429 dBm T2 : 6873.958 MHz : -4.190 dBm OBW : 78.236 MHz	Measured 26 dB Bandwidth: 89.459 MHz Measured 99% Bandwidth: 78.236 MHz

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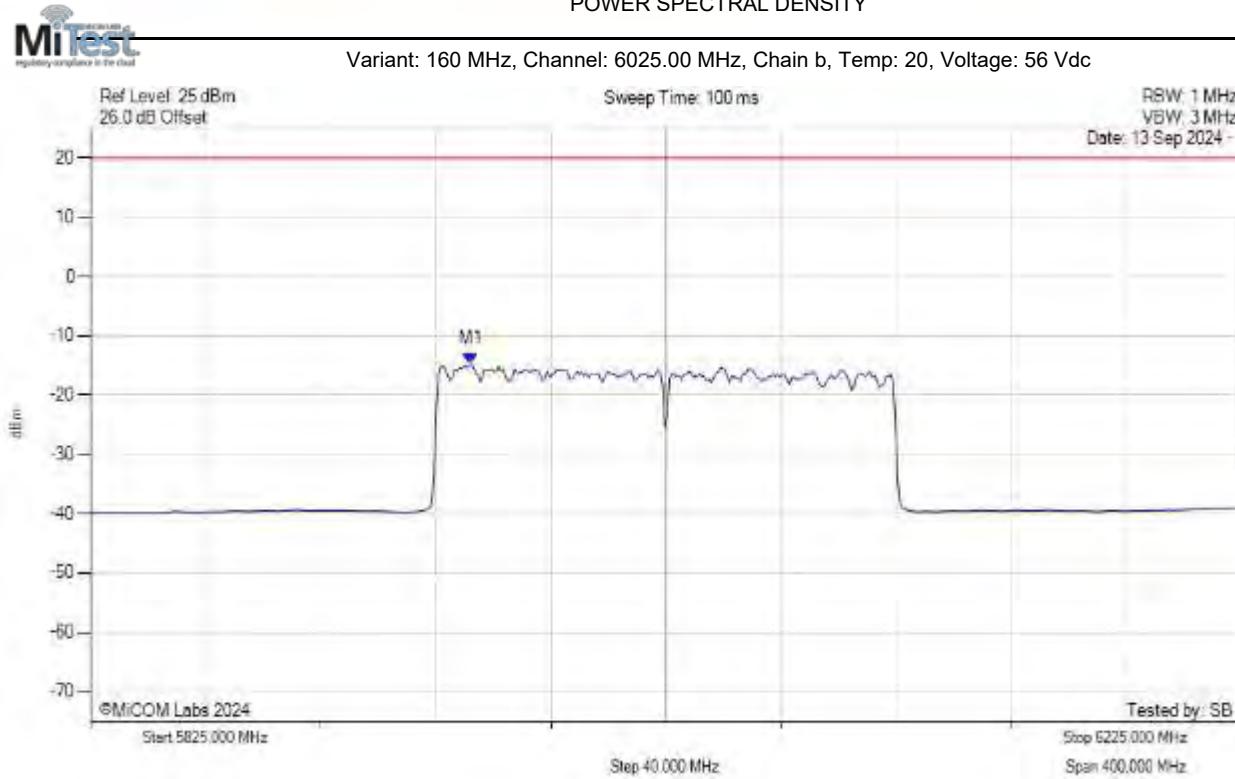
## A.2. Power Spectral Density



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5948.447 MHz : -14.615 dBm	Limit: ≤ 19.990 dBm

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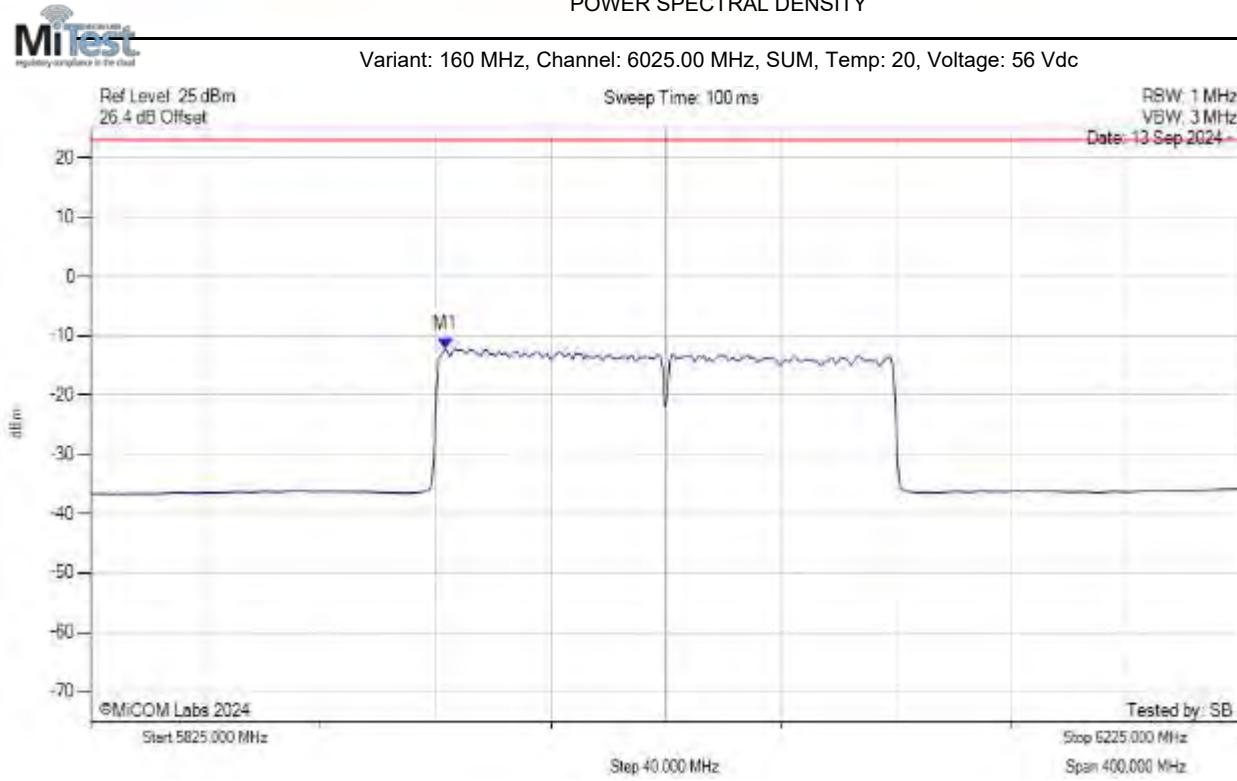
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5957.265 MHz : -14.798 dBm	Limit: ≤ 19.990 dBm

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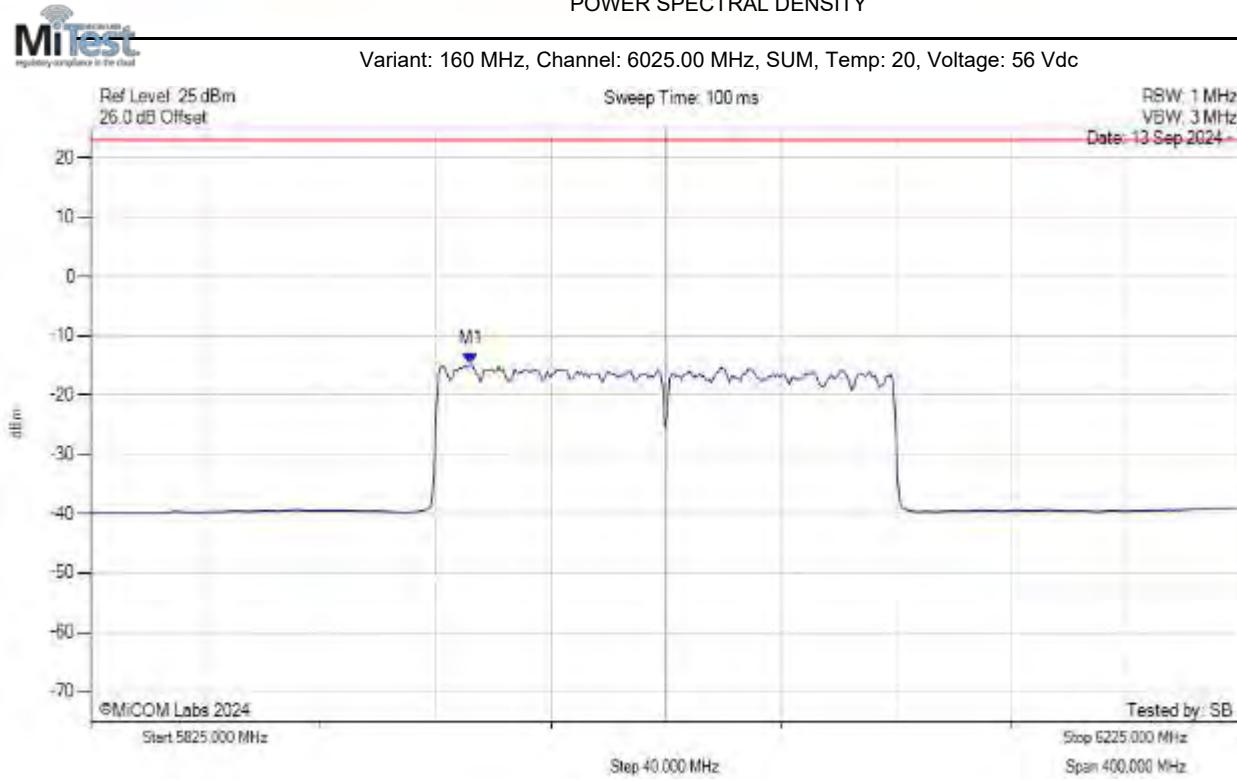
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5948.400 MHz : -12.100 dBm M1 + DCCF : 5948.400 MHz : -12.056 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -35.1 dB

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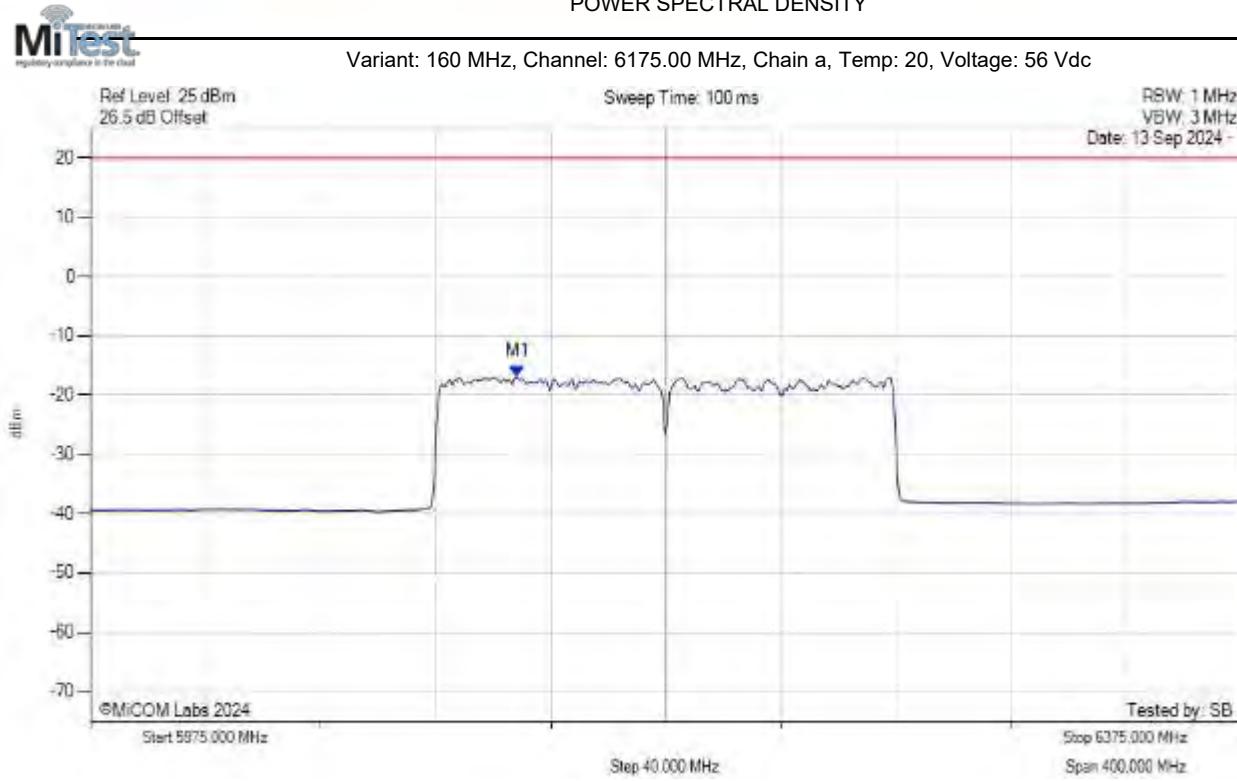
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5957.300 MHz : -14.798 dBm M1 + DCCF : 5957.300 MHz : -14.754 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -37.8 dB

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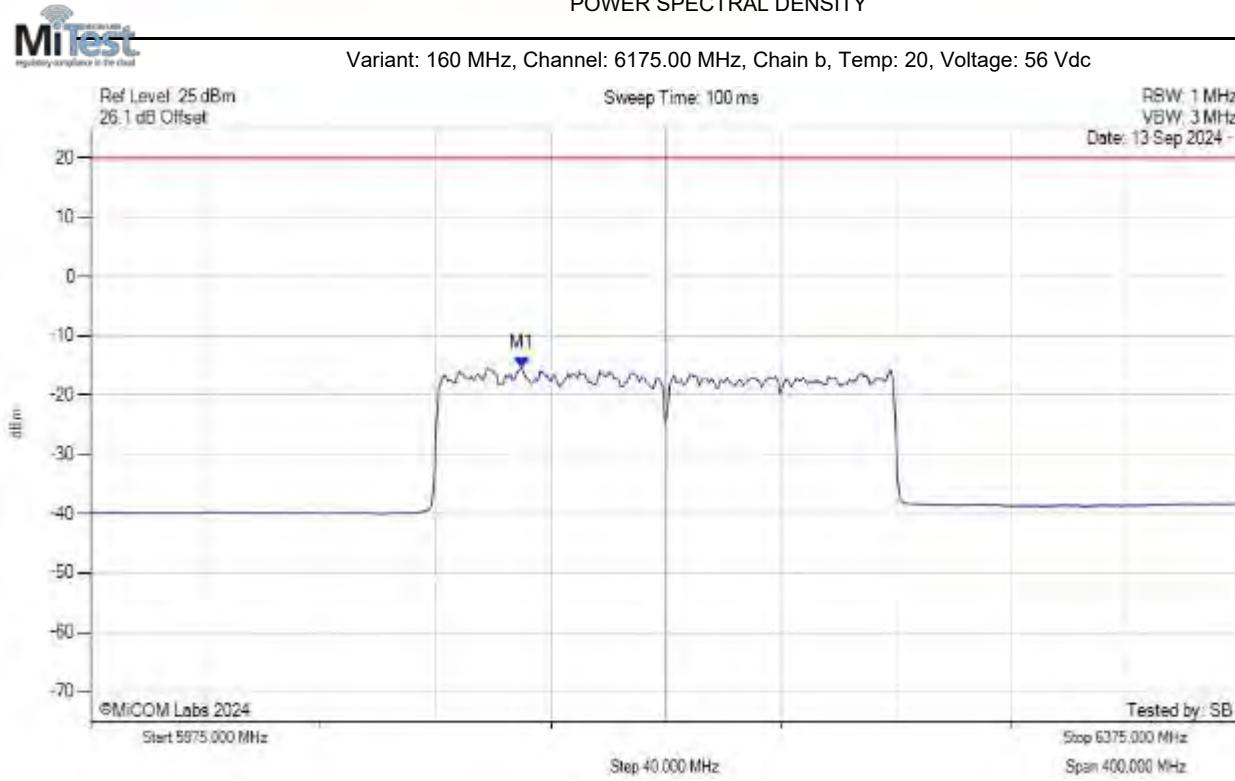
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6123.297 MHz : -16.915 dBm	Limit: ≤ 19.990 dBm

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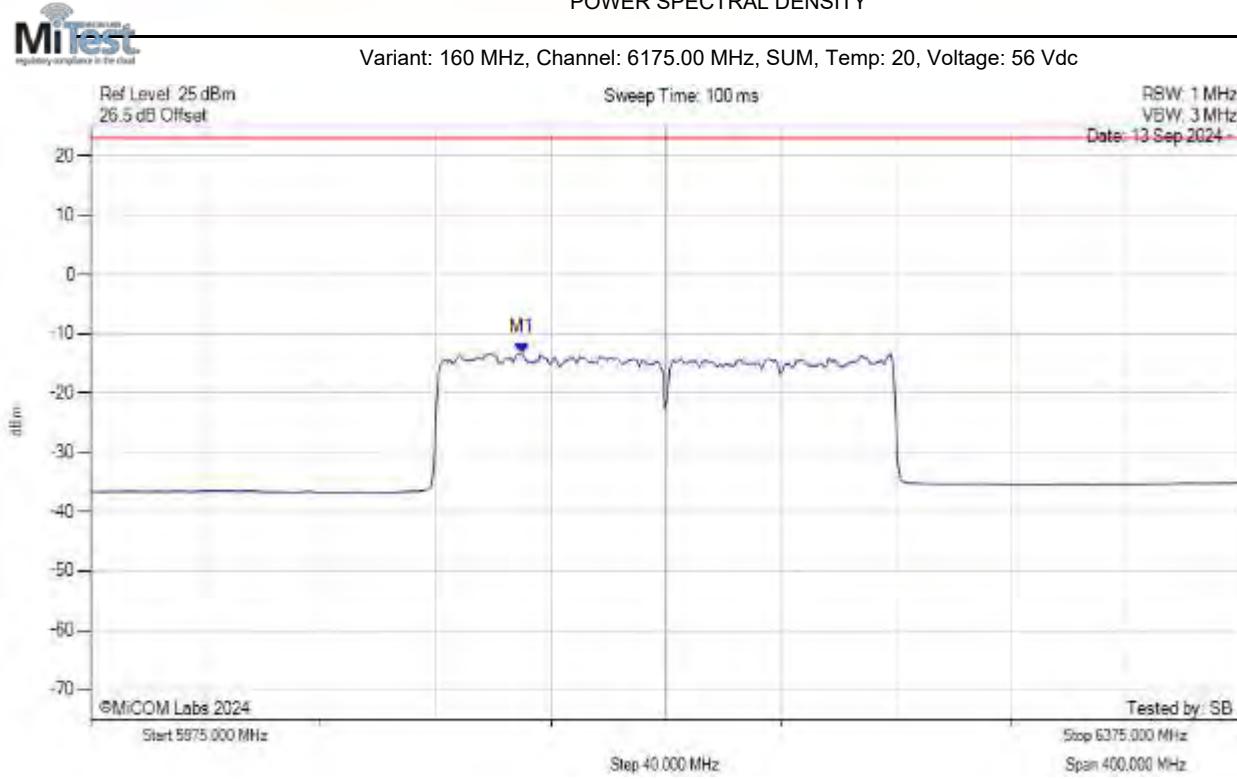
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6124.900 MHz : -15.454 dBm	Channel Frequency: 6175.00 MHz

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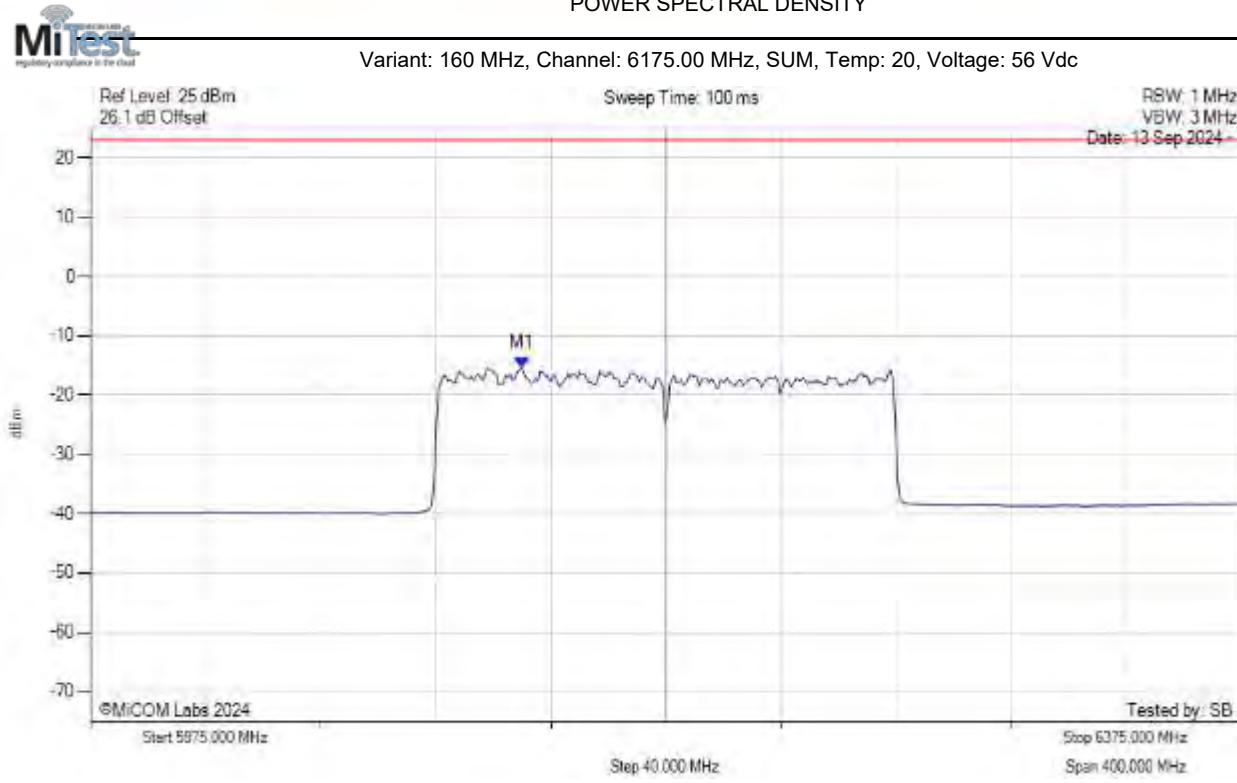
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6124.900 MHz : -13.242 dBm M1 + DCCF : 6124.900 MHz : -13.198 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -36.2 dB

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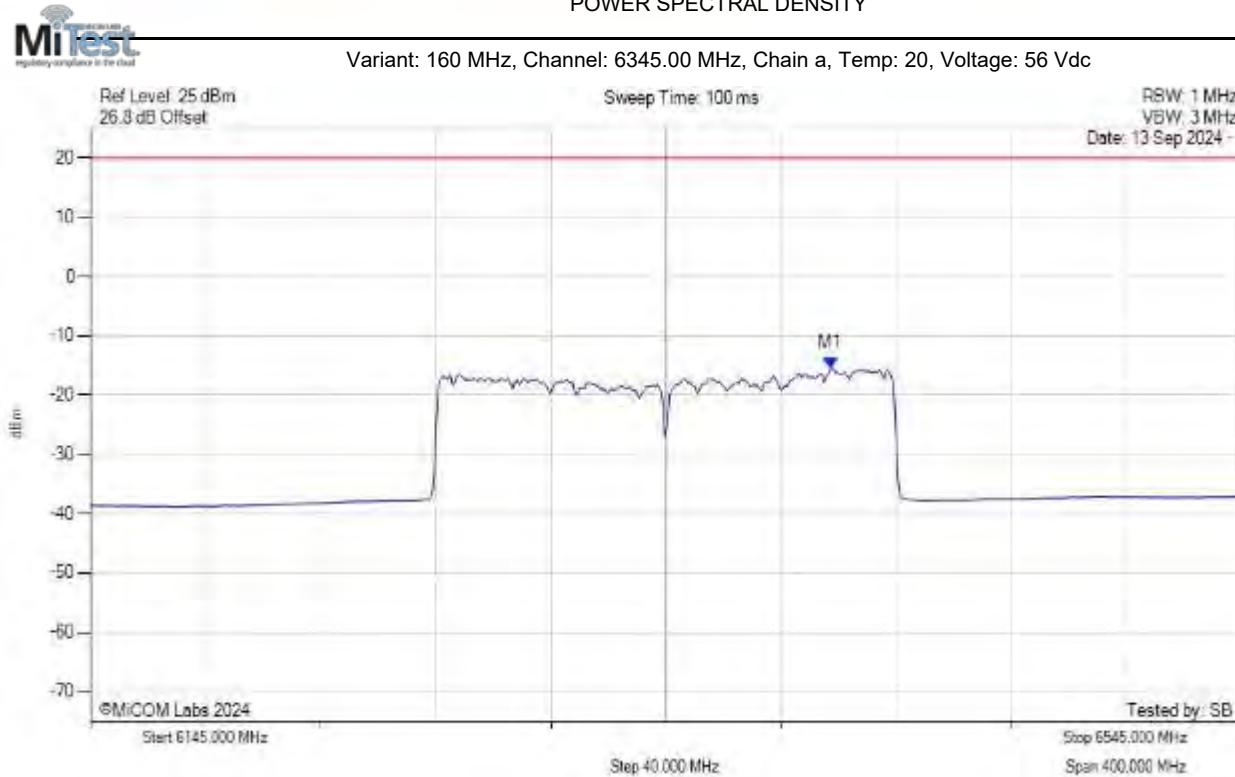
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6124.900 MHz : -15.454 dBm M1 + DCCF : 6124.900 MHz : -15.410 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -38.4 dB

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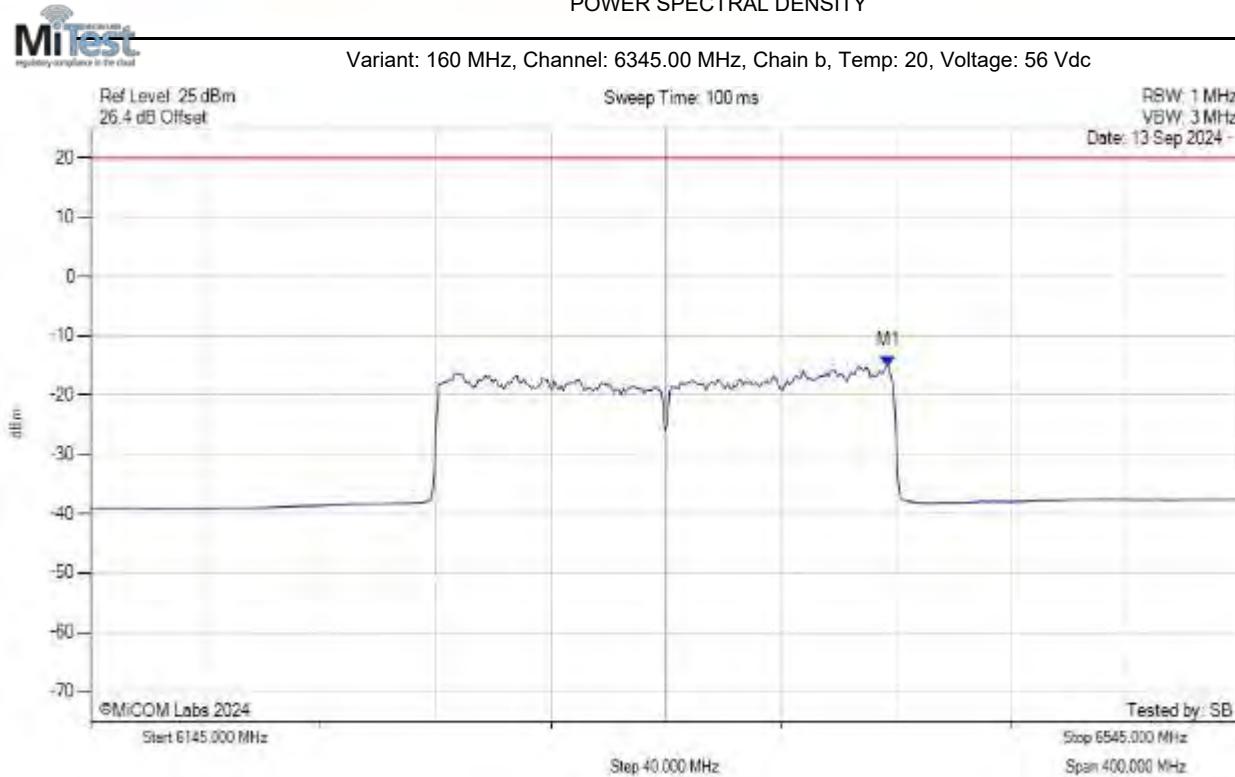
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6402.315 MHz : -15.424 dBm	Limit: ≤ 19.990 dBm

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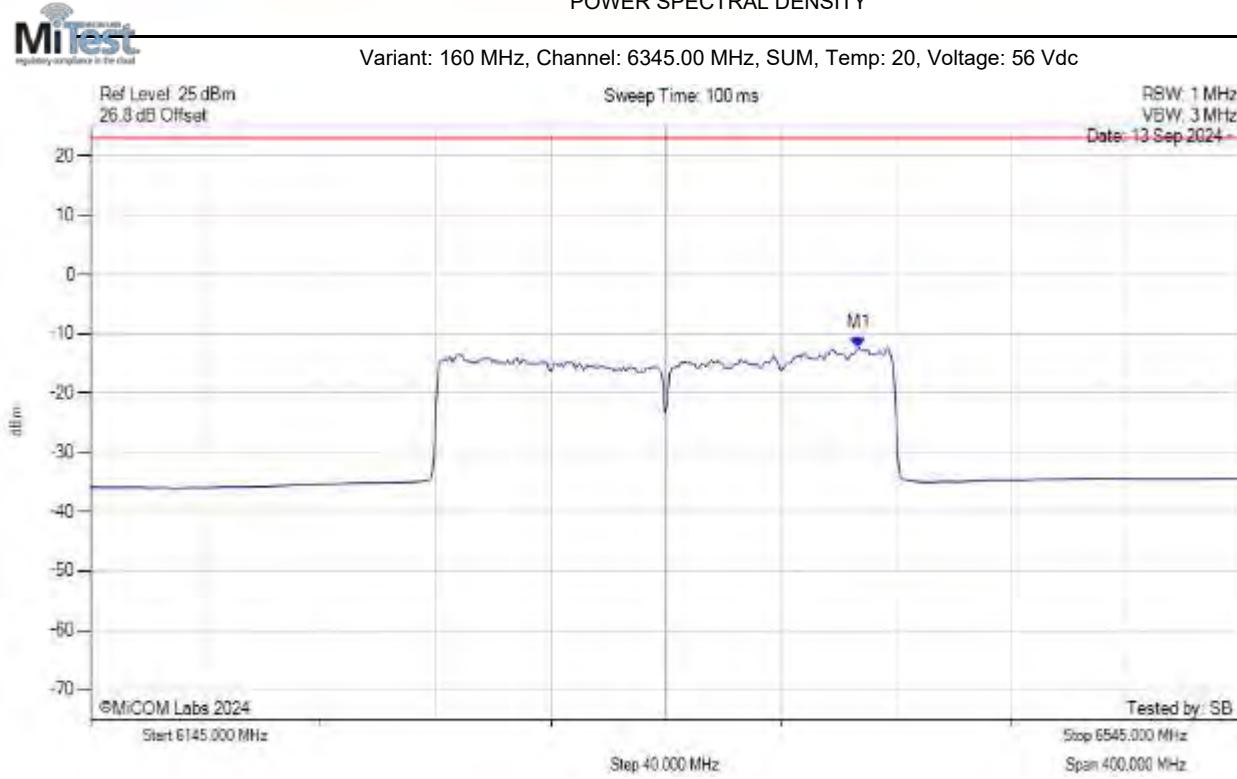
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6422.355 MHz : -15.105 dBm	Limit: ≤ 19.990 dBm

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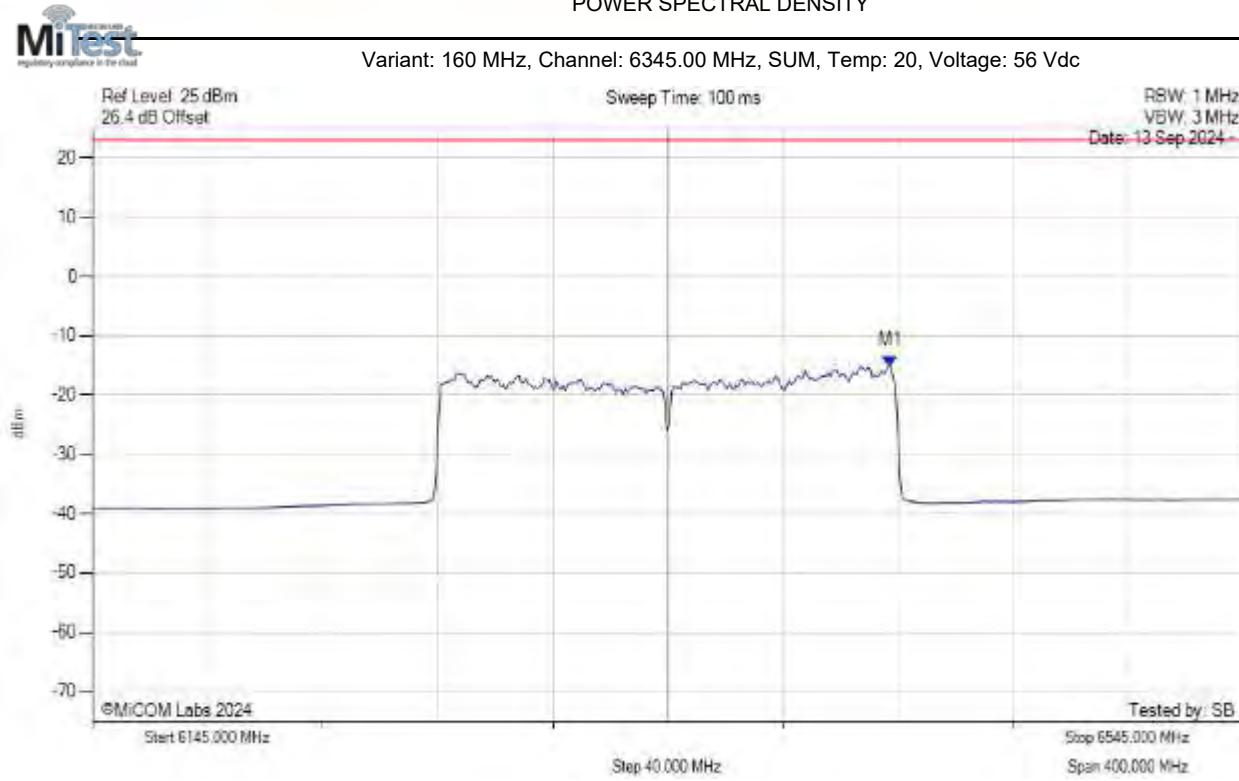
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6411.900 MHz : -12.422 dBm M1 + DCCF : 6411.900 MHz : -12.378 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -35.4 dB

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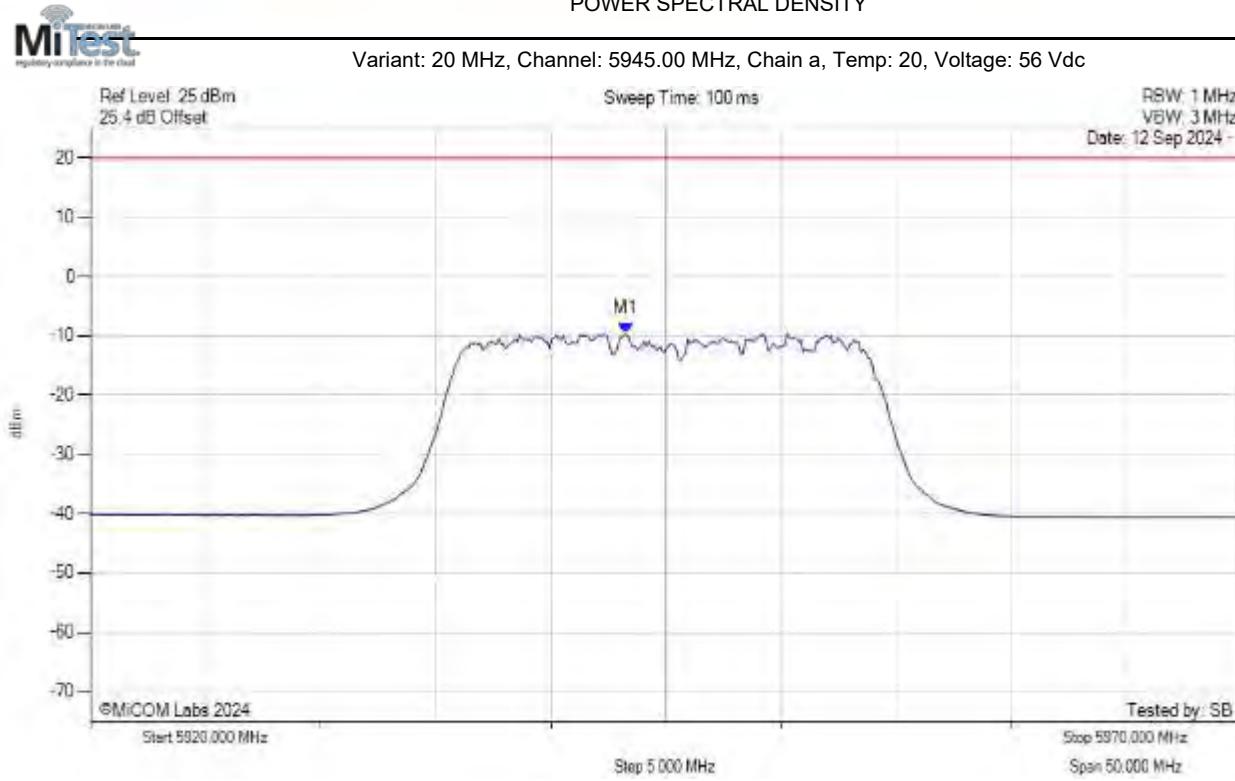
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6422.400 MHz : -15.105 dBm M1 + DCCF : 6422.400 MHz : -15.061 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -38.1 dB

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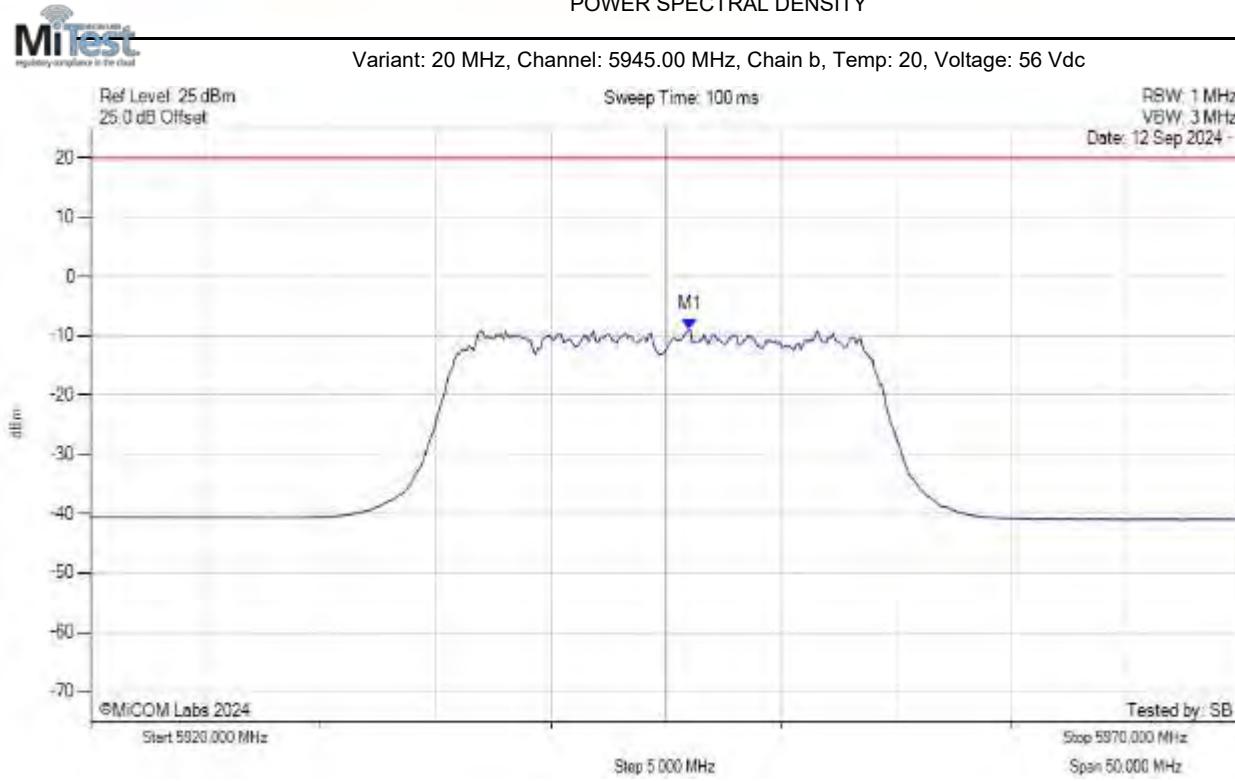
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5943.246 MHz : -9.618 dBm	Limit: ≤ 19.990 dBm

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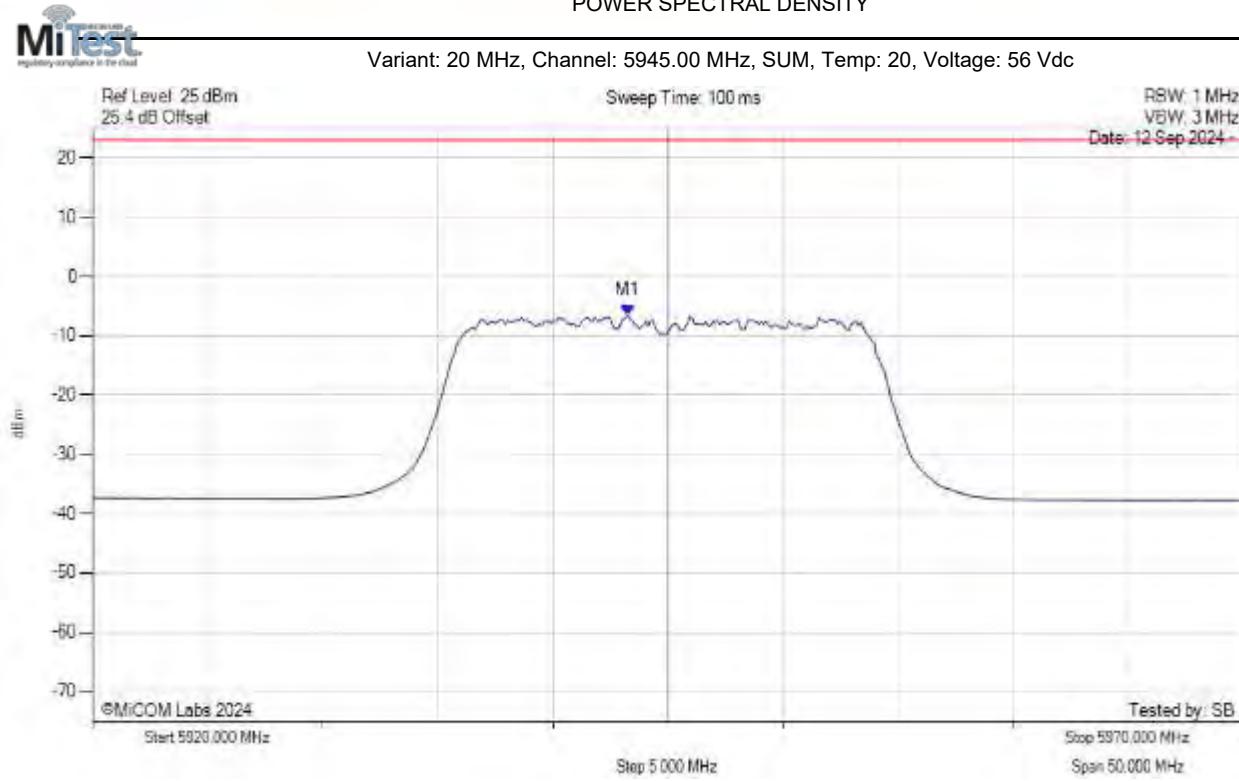
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5946.052 MHz : -8.839 dBm	Limit: ≤ 19.990 dBm

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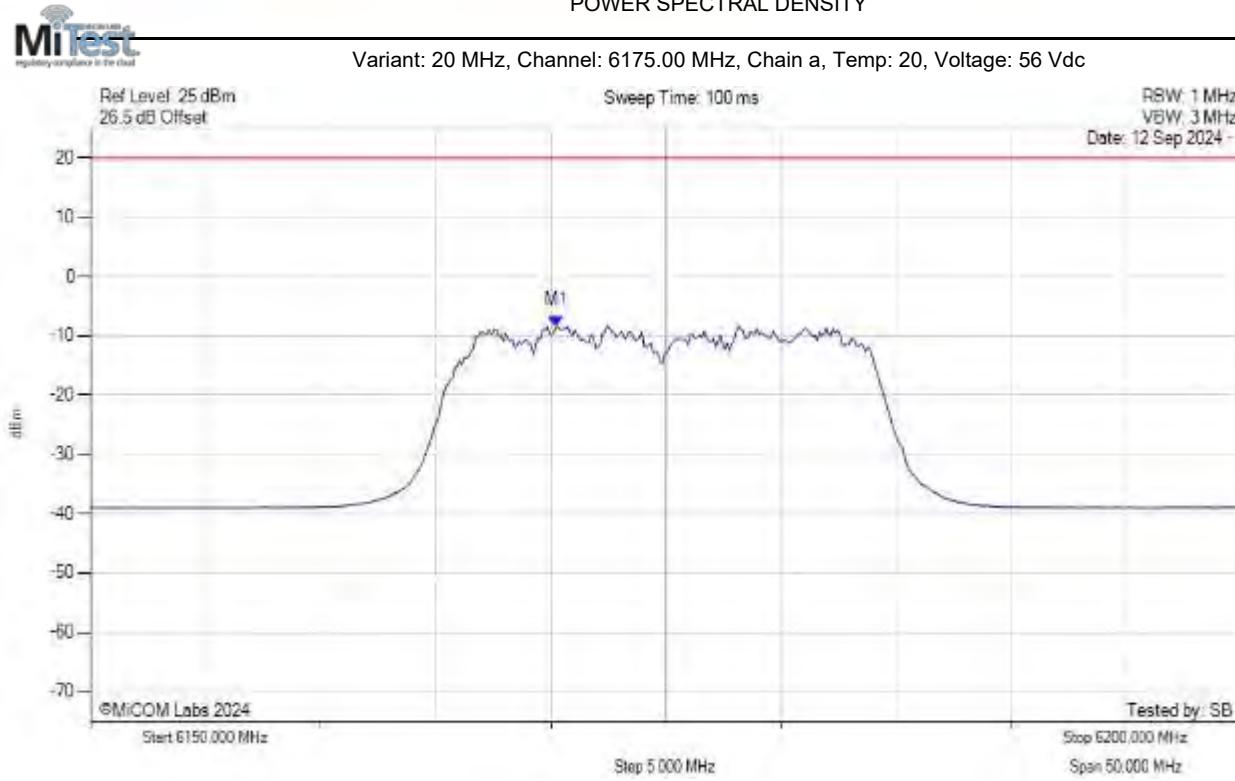
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5943.200 MHz : -6.550 dBm M1 + DCCF : 5943.200 MHz : -6.506 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -29.5 dB

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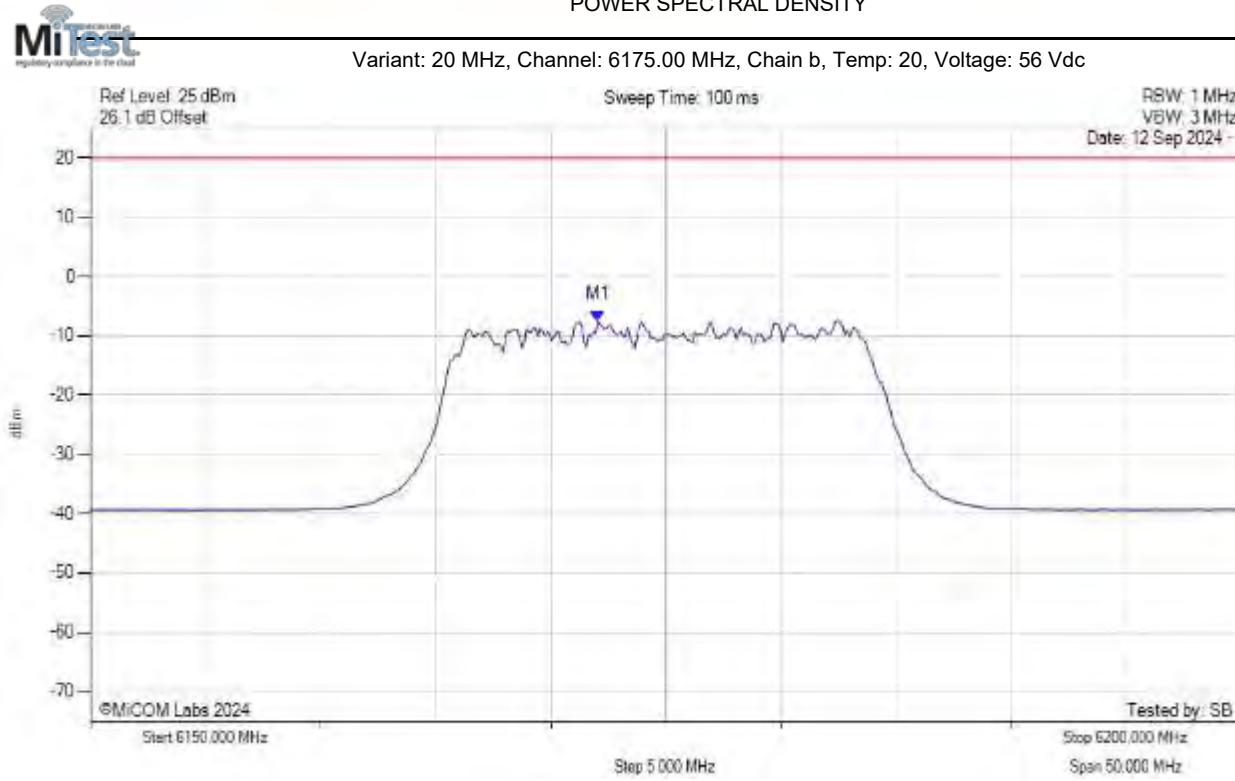
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6170.240 MHz : -8.345 dBm	Limit: ≤ 19.990 dBm

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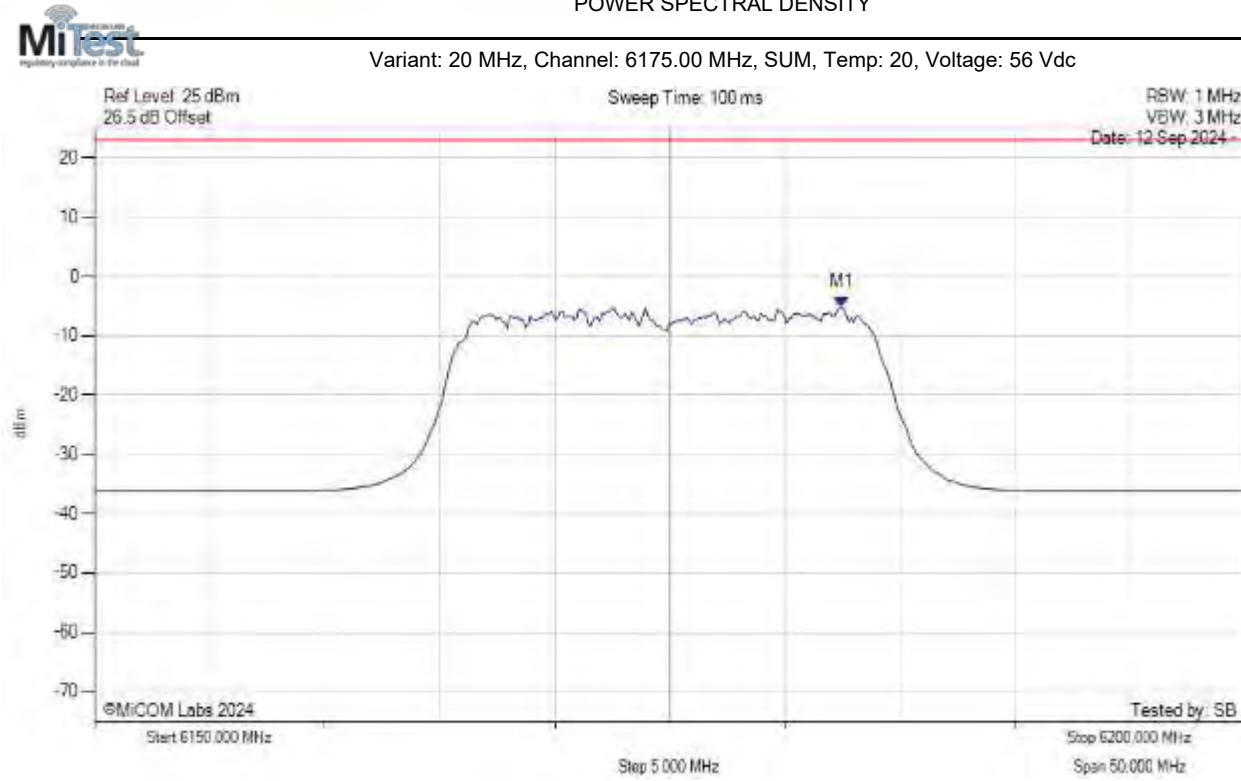
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6172.044 MHz : -7.391 dBm	Channel Frequency: 6175.00 MHz

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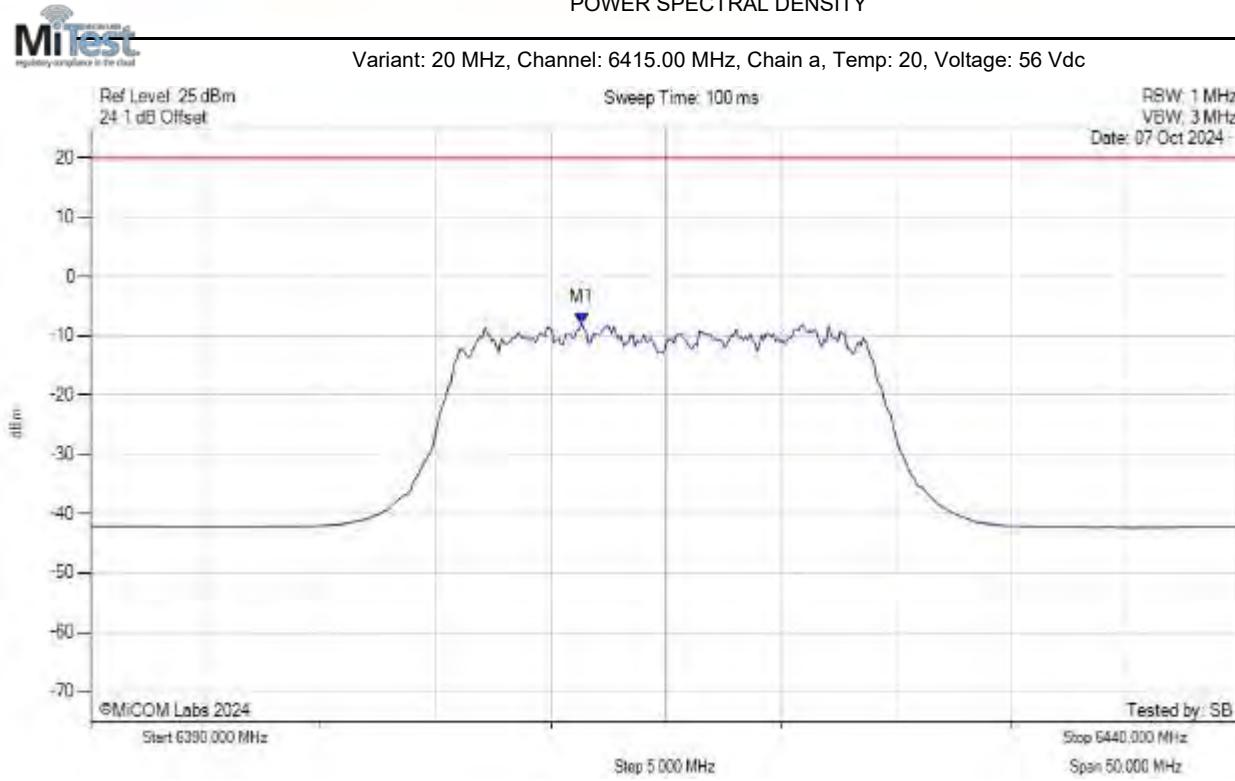
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6182.500 MHz : -5.152 dBm M1 + DCCF : 6182.500 MHz : -5.108 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -28.1 dB

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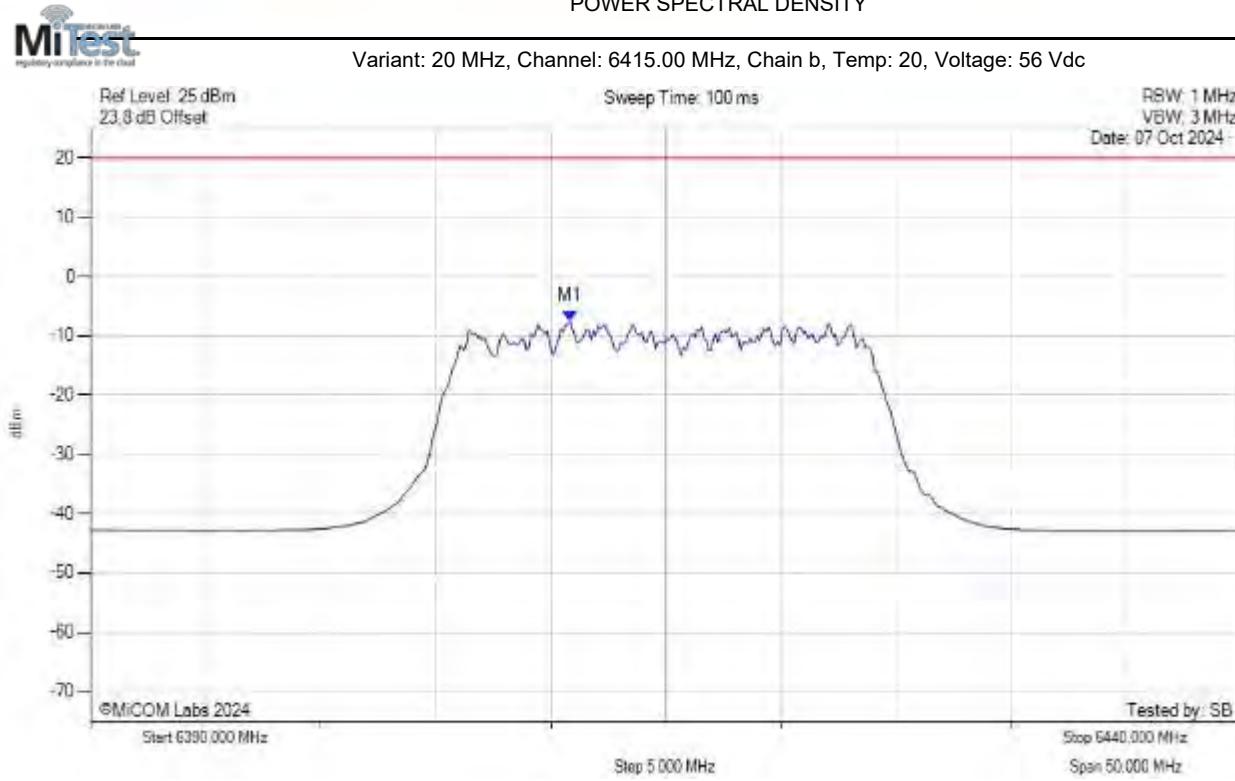
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6411.343 MHz : -7.851 dBm	Limit: ≤ 19.990 dBm

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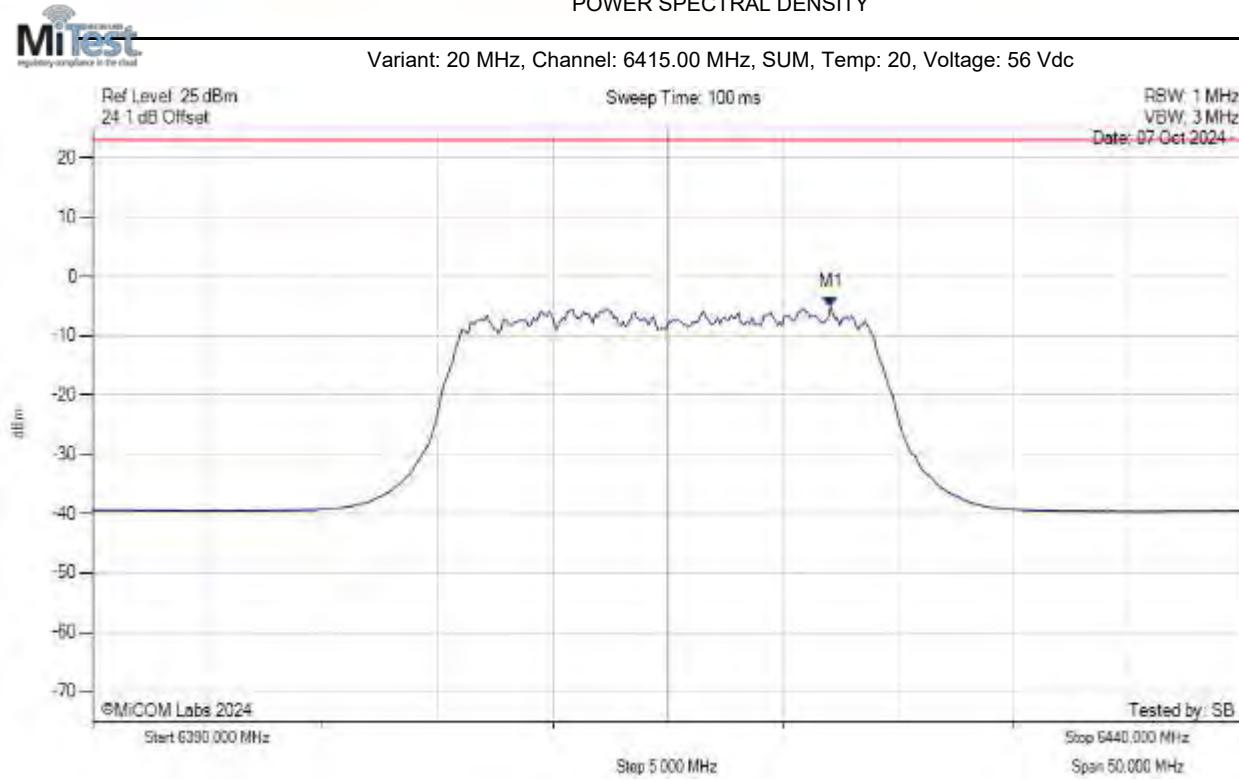
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6410.842 MHz : -7.584 dBm	Limit: ≤ 19.990 dBm

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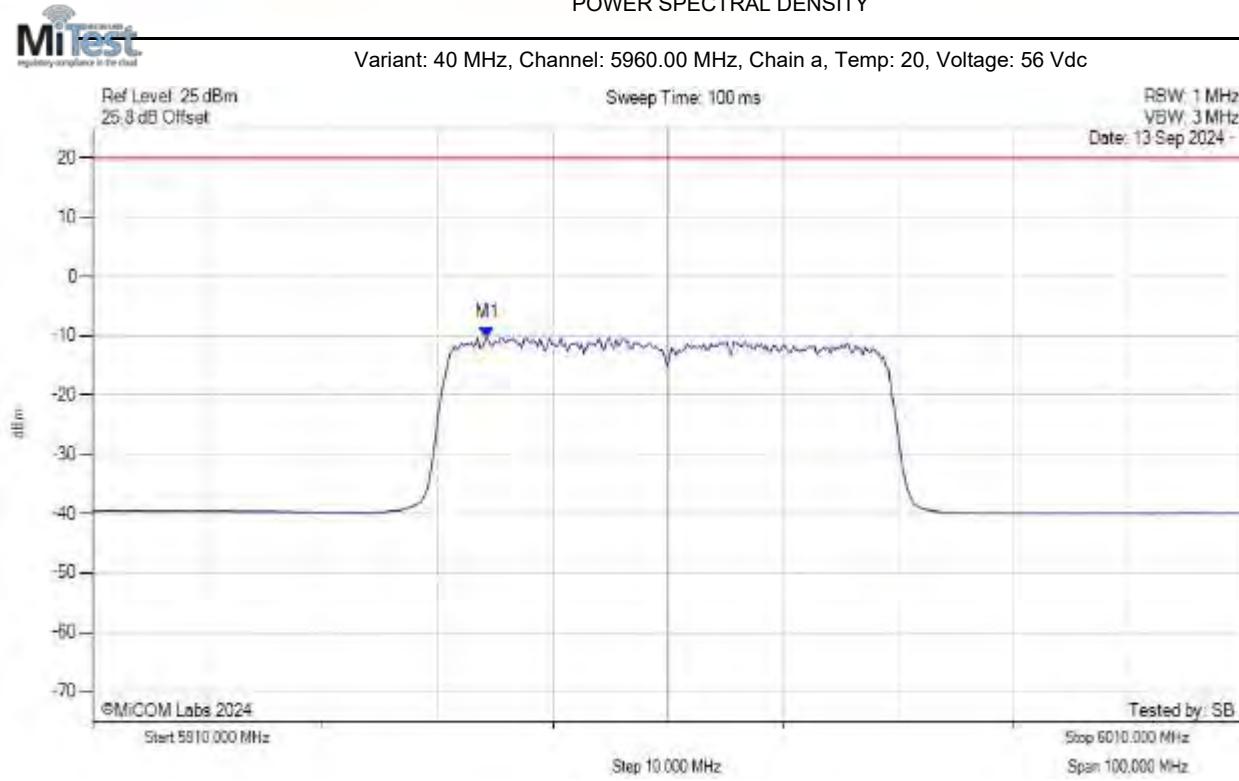
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6422.100 MHz : -5.122 dBm M1 + DCCF : 6422.100 MHz : -5.078 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -28.1 dB

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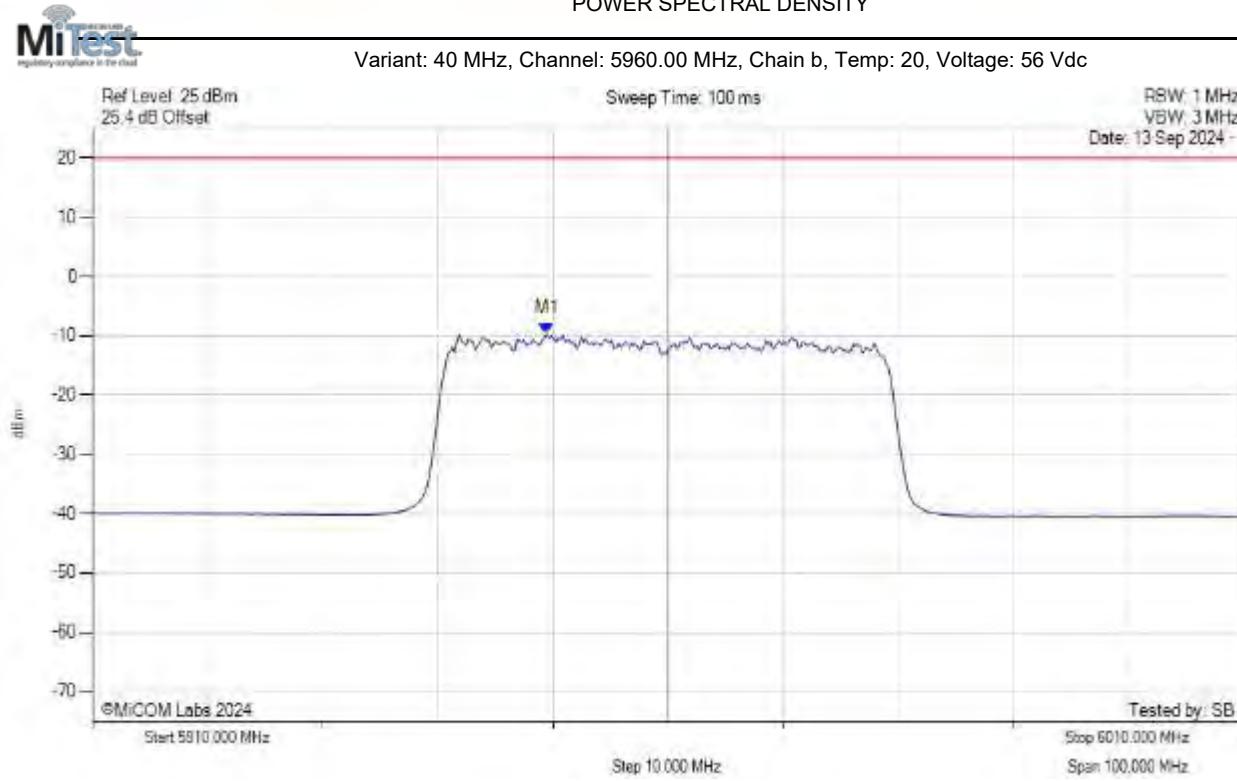
## POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5944.269 MHz : -10.244 dBm	Limit: ≤ 19.990 dBm

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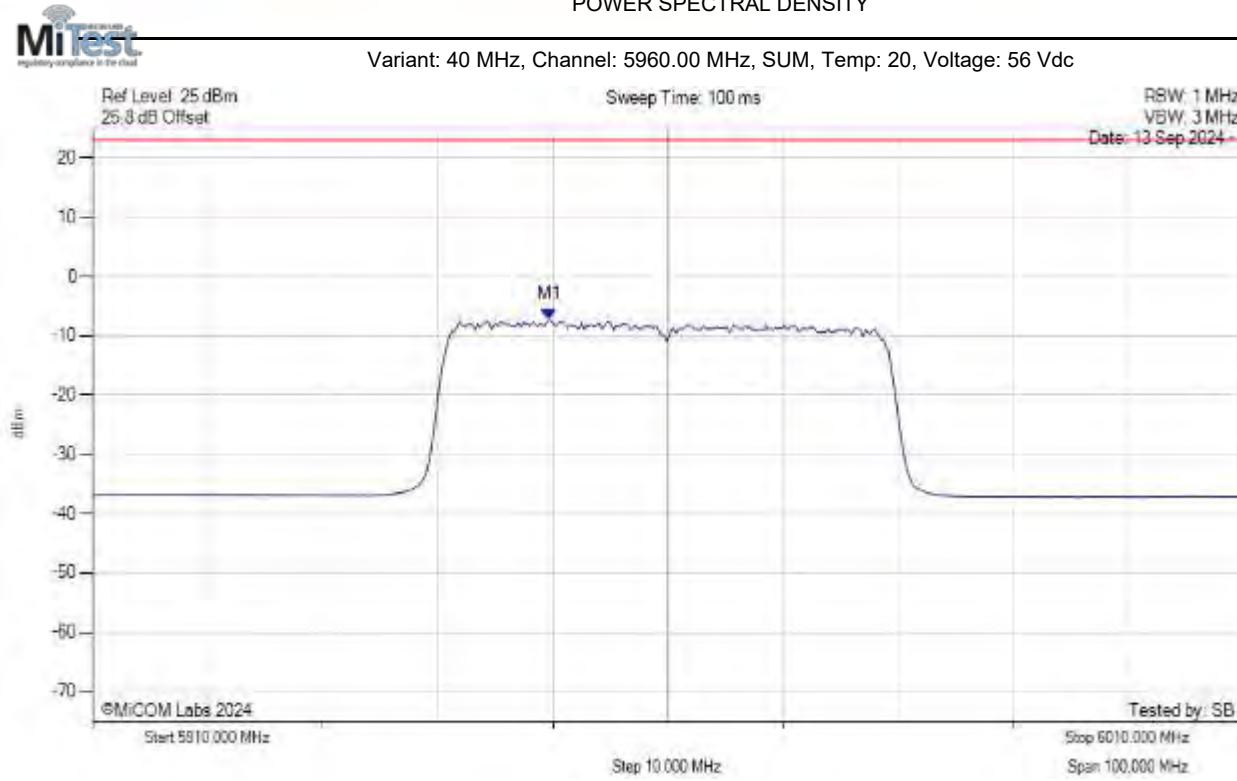
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5949.479 MHz : -9.660 dBm	Limit: ≤ 19.990 dBm

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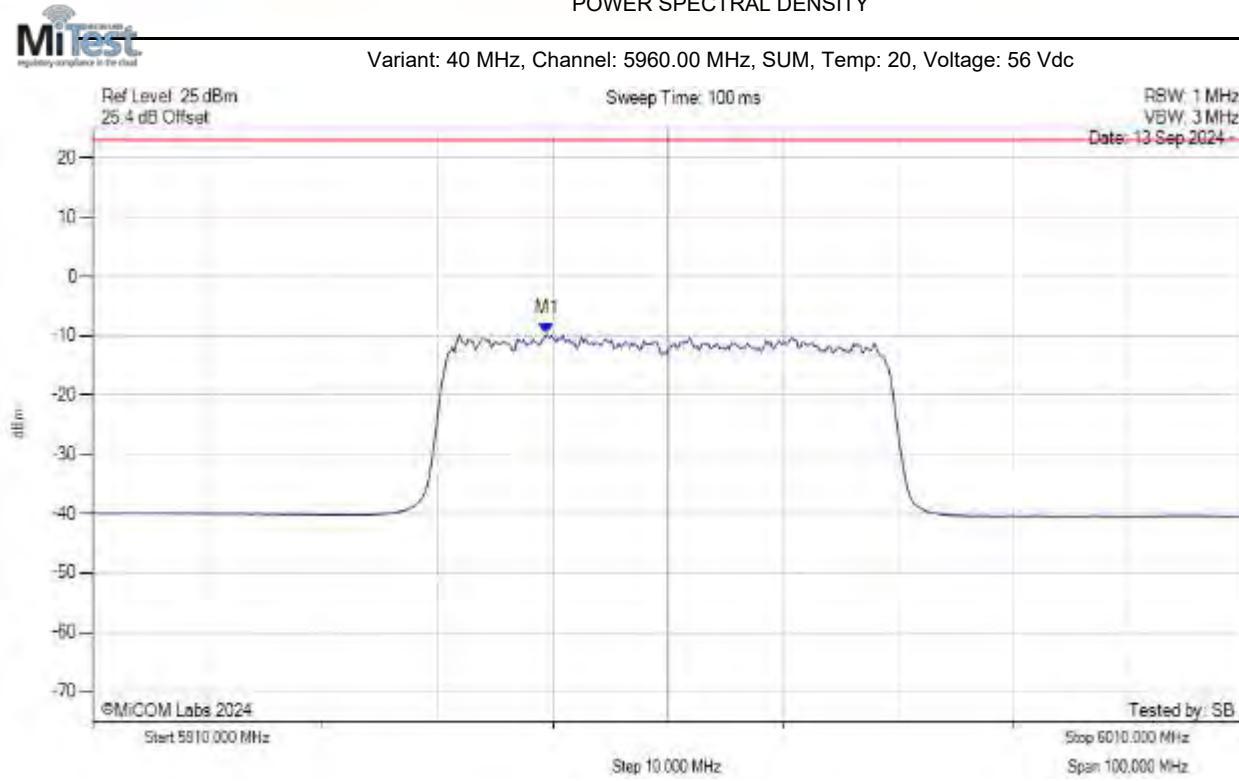
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5949.700 MHz : -7.324 dBm M1 + DCCF : 5949.700 MHz : -7.280 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.3 dB

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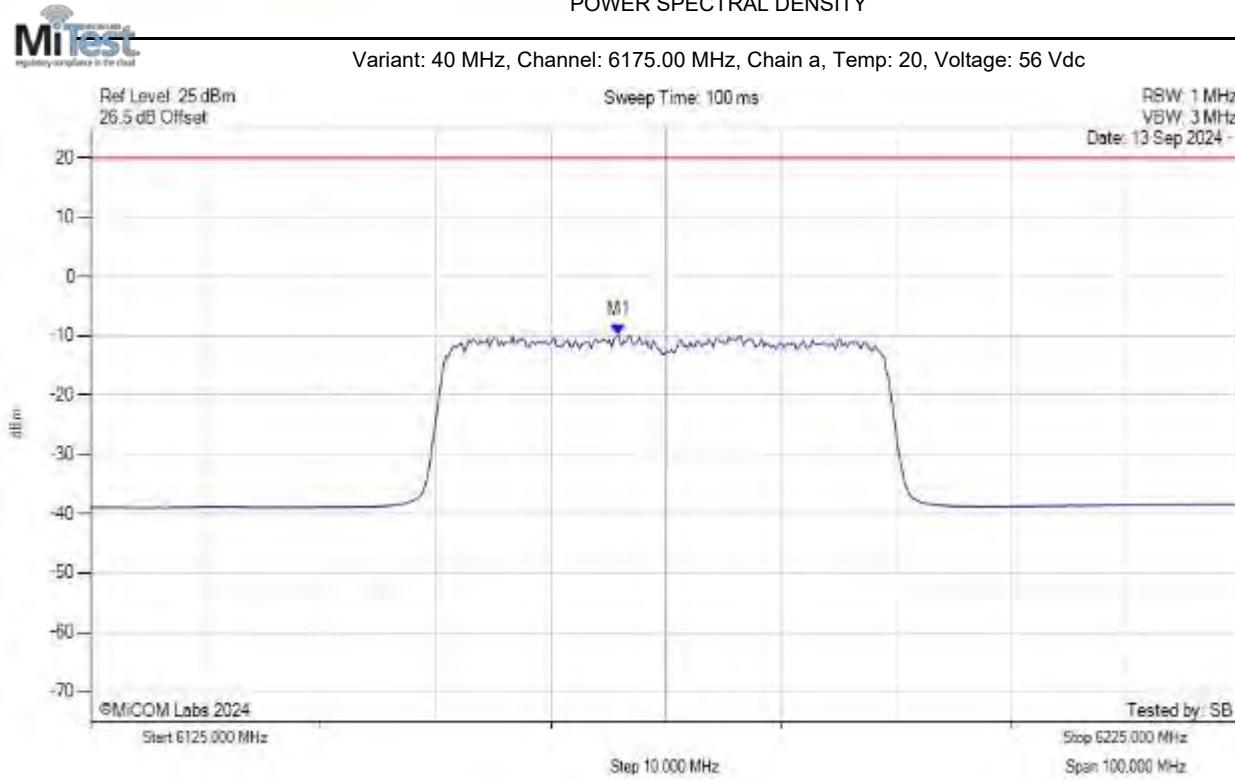
POWER SPECTRAL DENSITY



Analyzer Setup	Marker: Frequency: Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5949.500 MHz : -9.660 dBm M1 + DCCF : 5949.500 MHz : -9.616 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -32.6 dB

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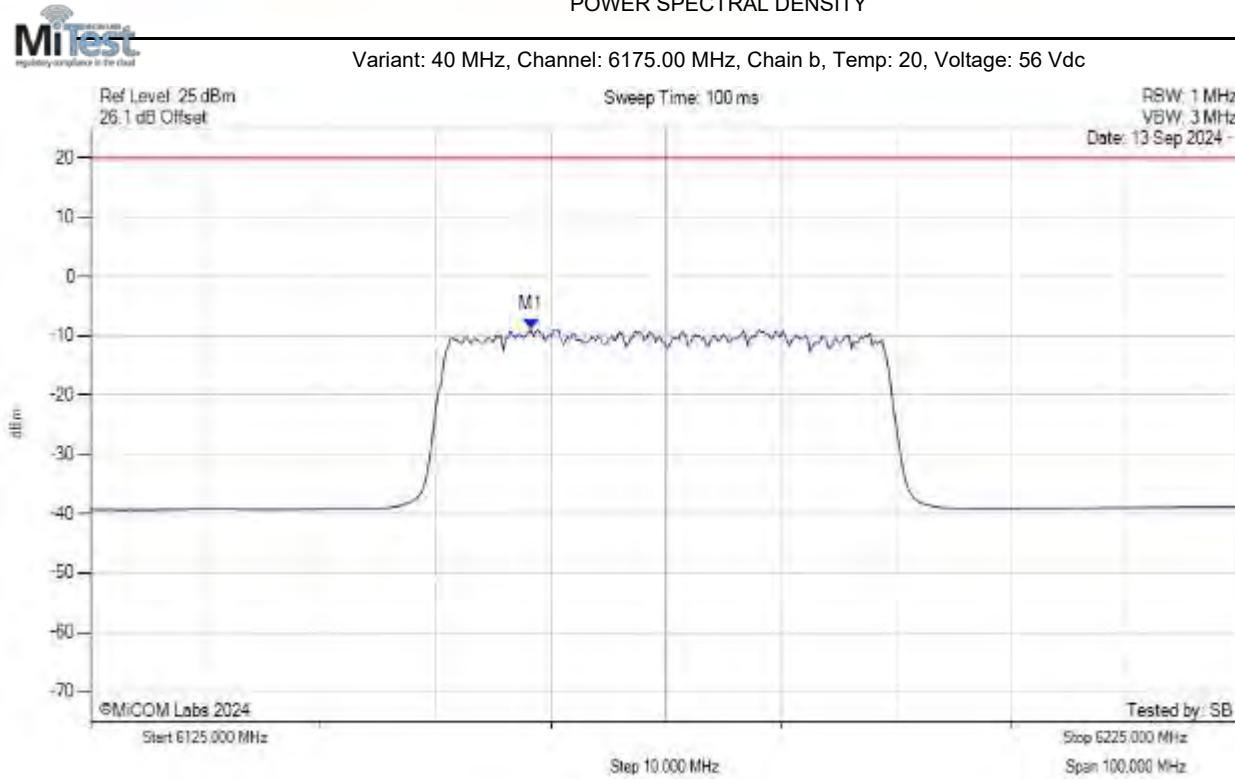
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6170.892 MHz : -9.757 dBm	Limit: ≤ 19.990 dBm

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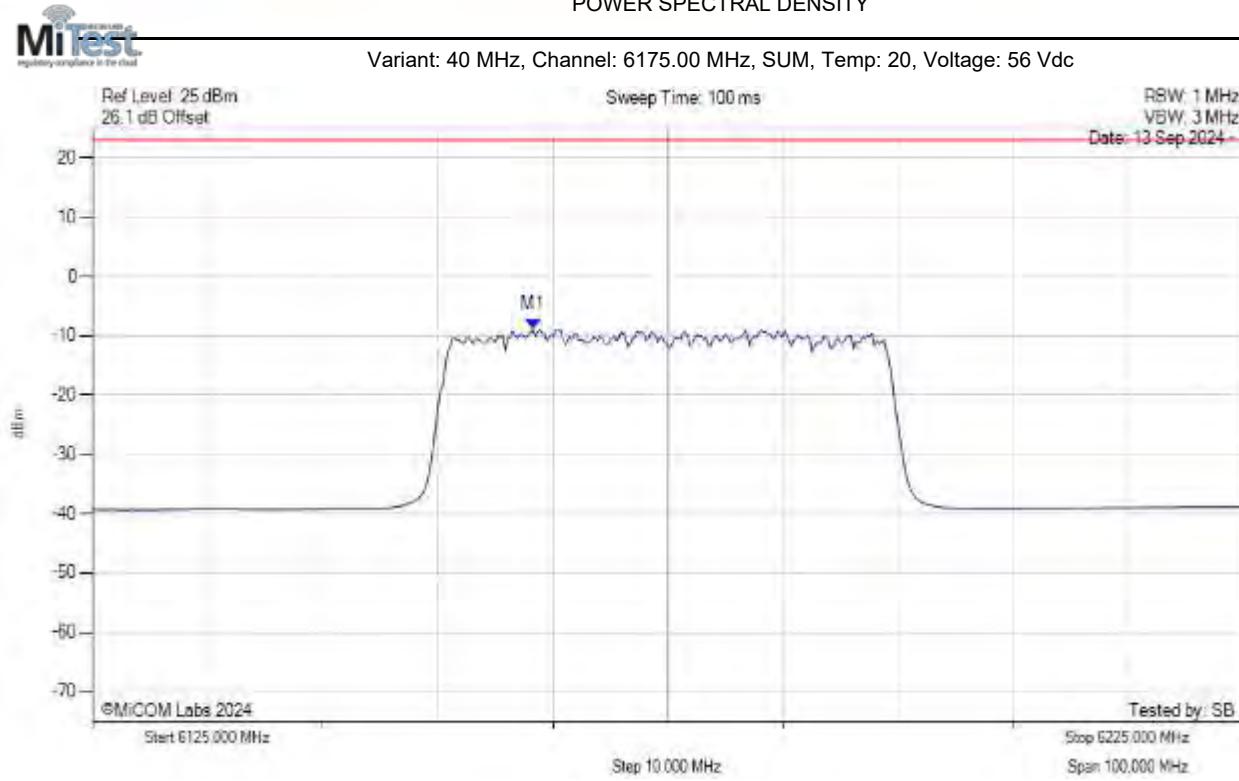
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6163.277 MHz : -8.906 dBm	Channel Frequency: 6175.00 MHz

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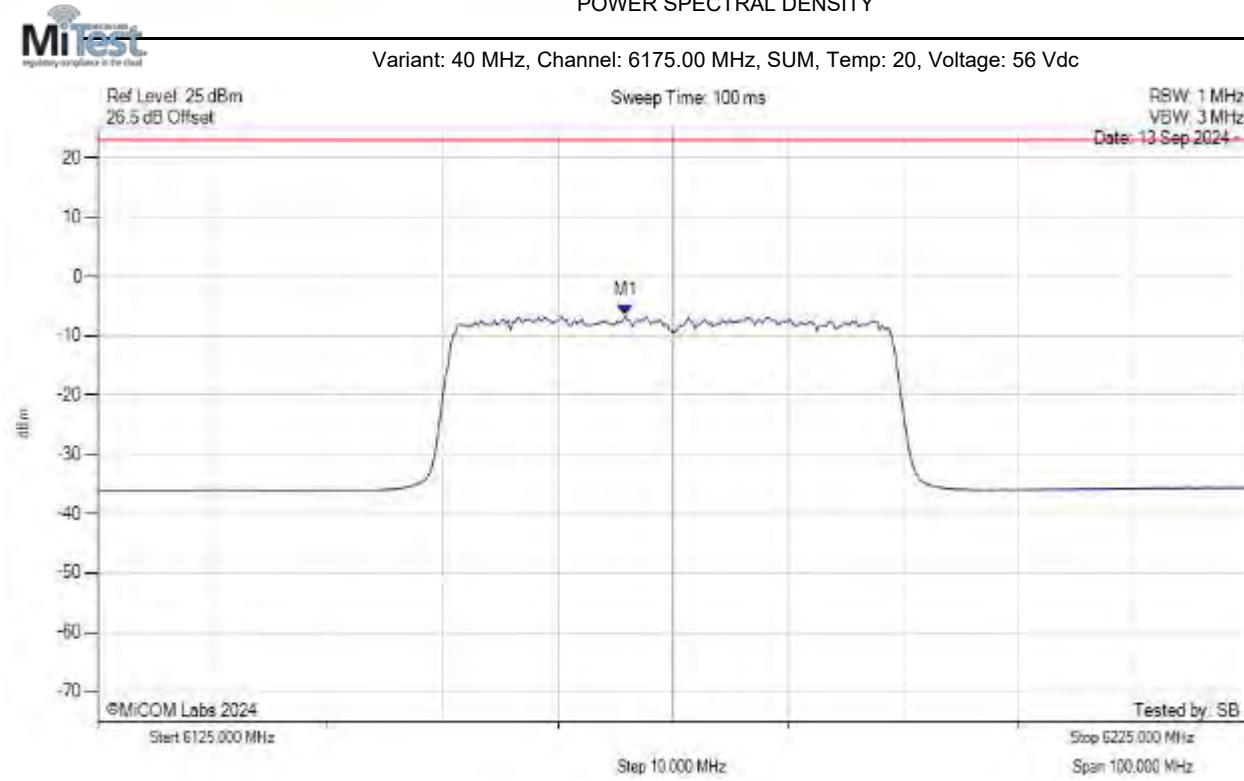
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6163.300 MHz : -8.906 dBm M1 + DCCF : 6163.300 MHz : -8.862 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -31.9 dB

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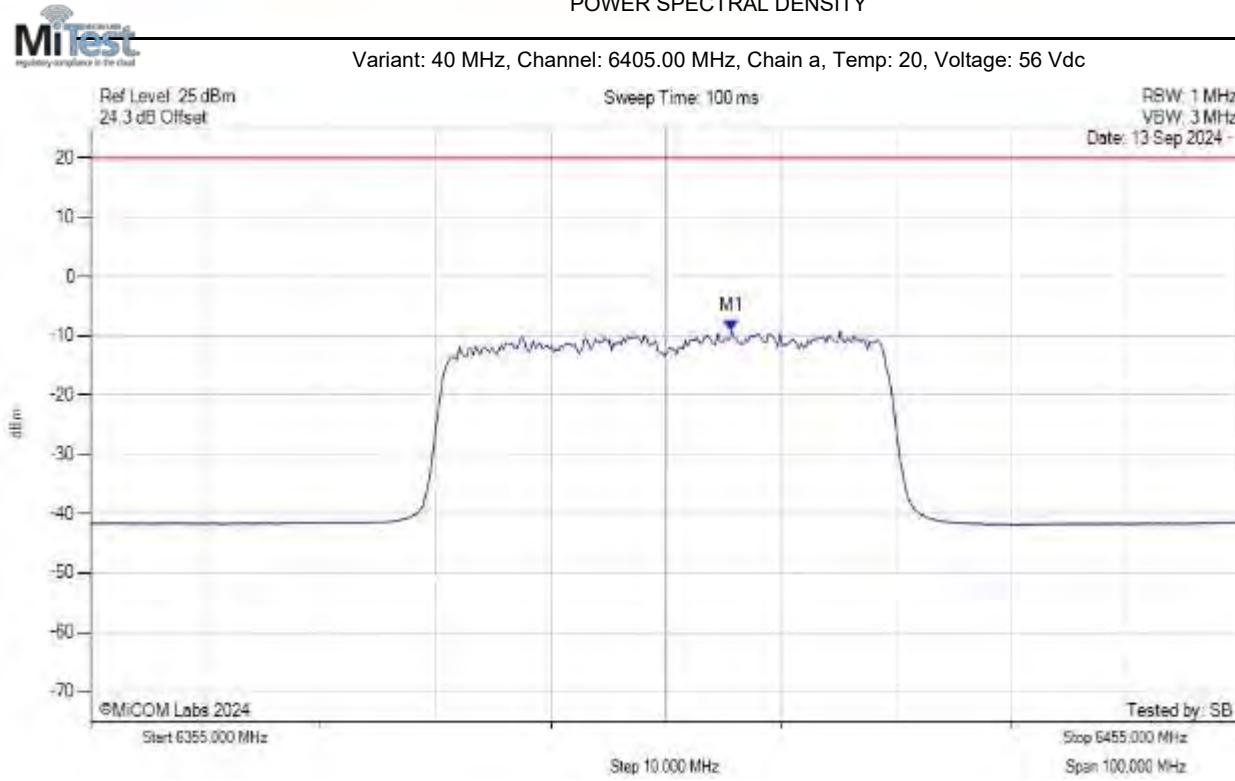
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6170.900 MHz : -6.584 dBm M1 + DCCF : 6170.900 MHz : -6.540 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -29.6 dB

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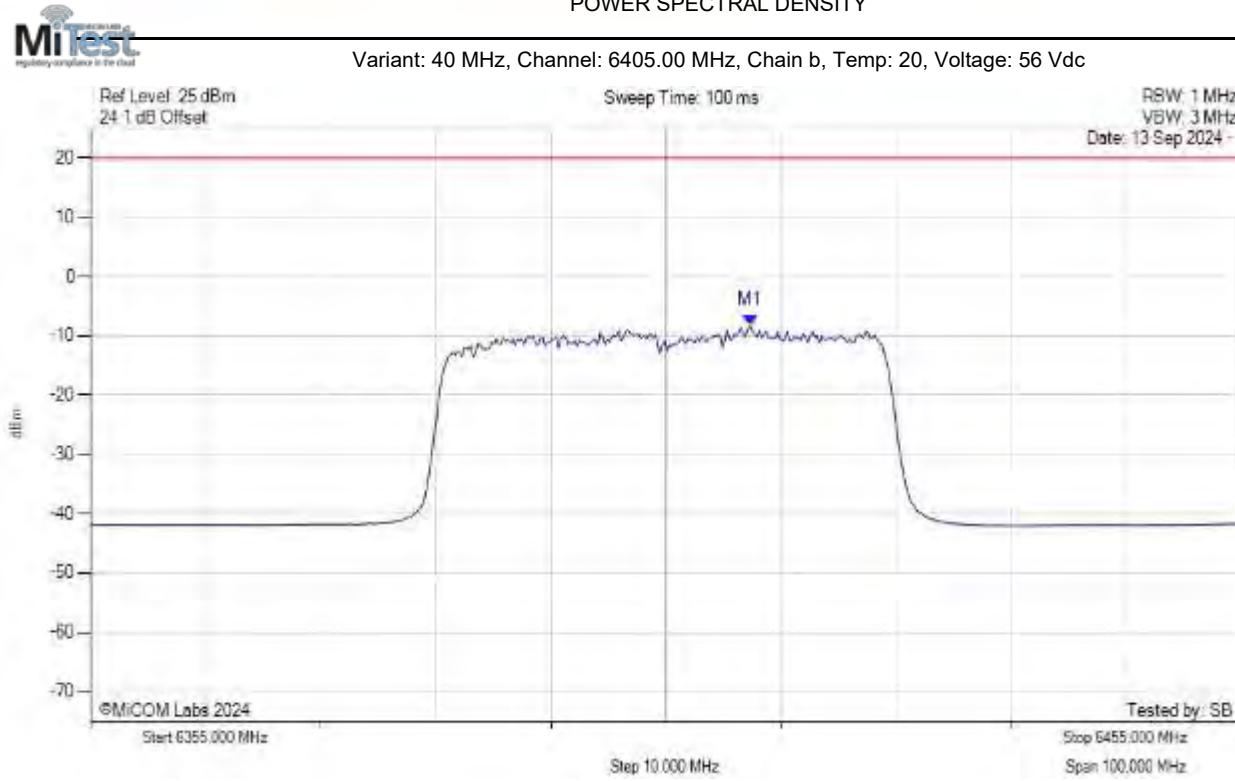
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6410.711 MHz : -9.177 dBm	Limit: ≤ 19.990 dBm

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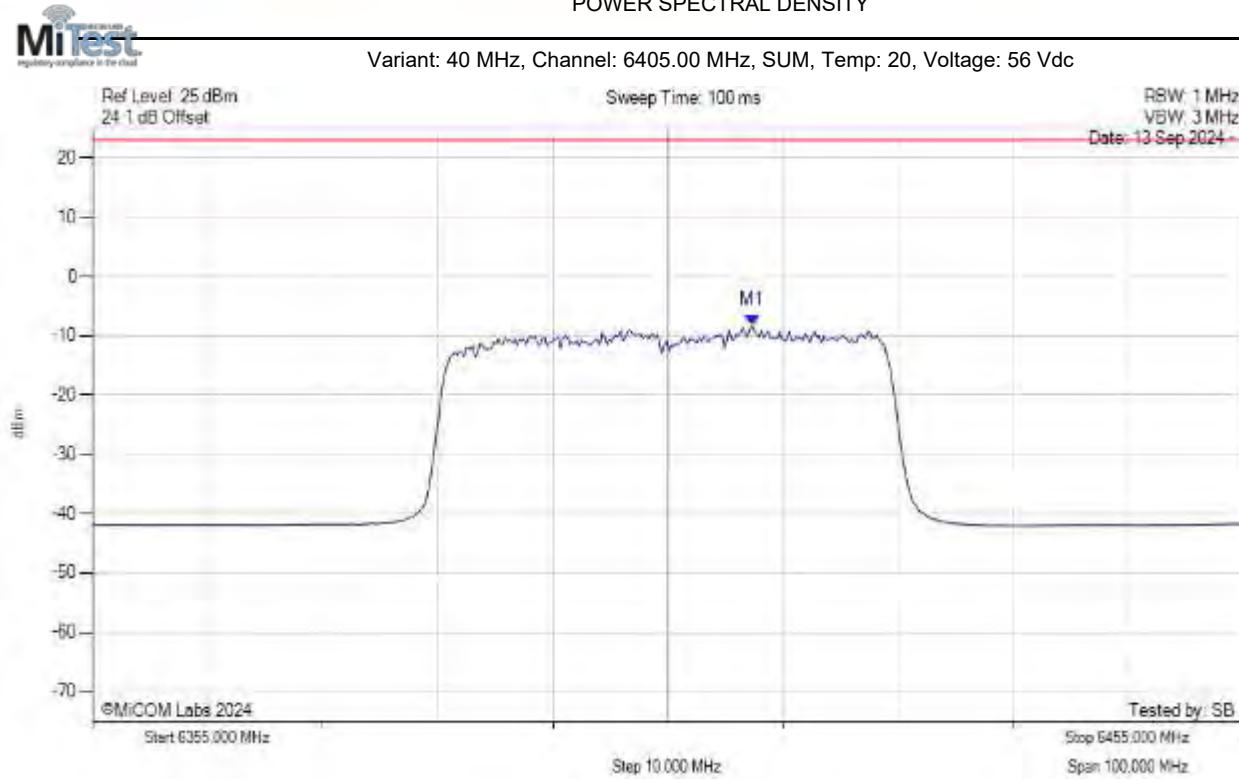
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.315 MHz : -8.274 dBm	Limit: ≤ 19.990 dBm

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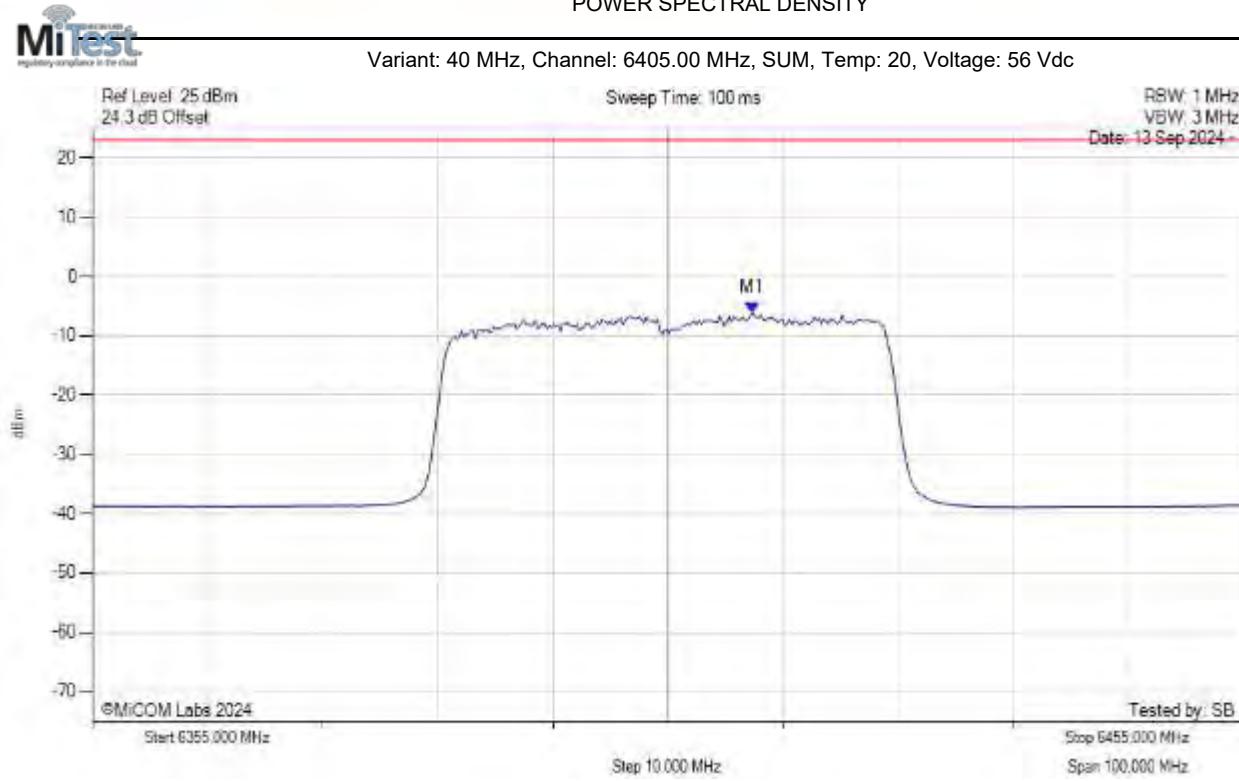
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.300 MHz : -8.274 dBm M1 + DCCF : 6412.300 MHz : -8.230 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -31.2 dB

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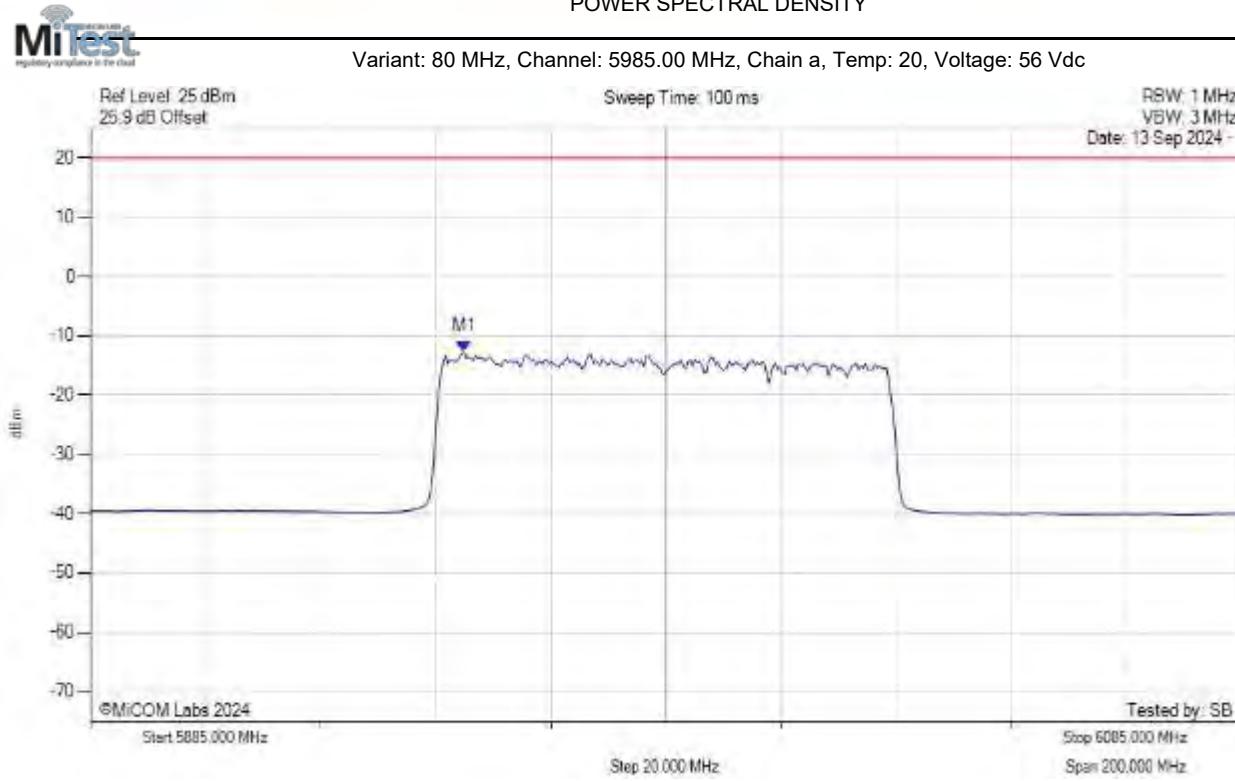
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.300 MHz : -6.061 dBm M1 + DCCF : 6412.300 MHz : -6.017 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -29.0 dB

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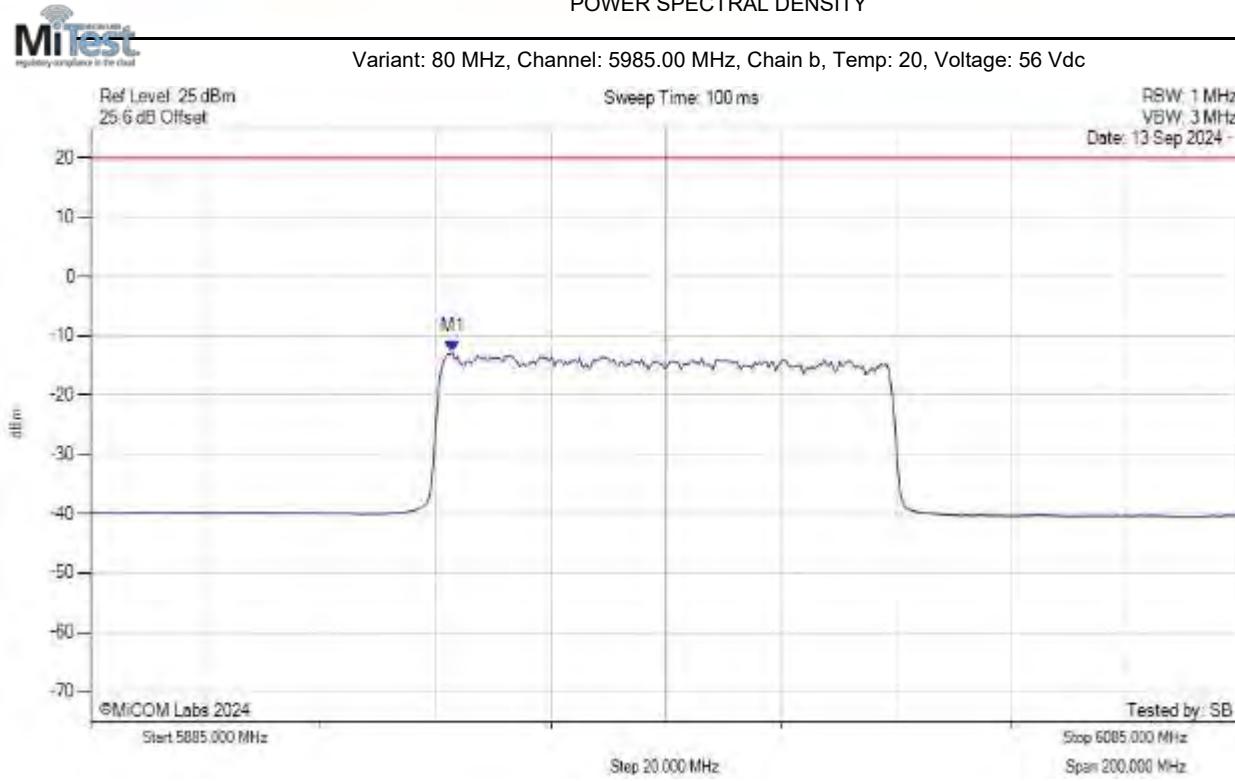
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5949.930 MHz : -12.758 dBm	Limit: ≤ 19.990 dBm

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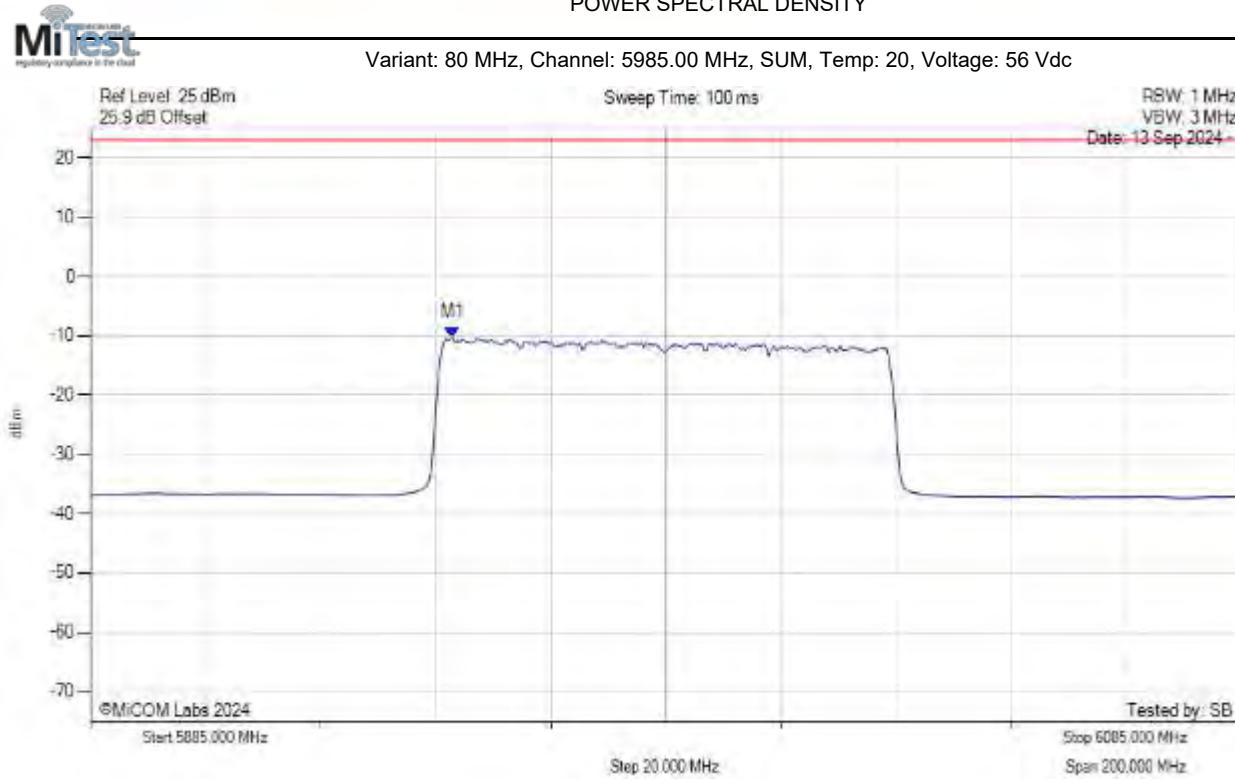
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5947.926 MHz : -12.755 dBm	Limit: ≤ 19.990 dBm

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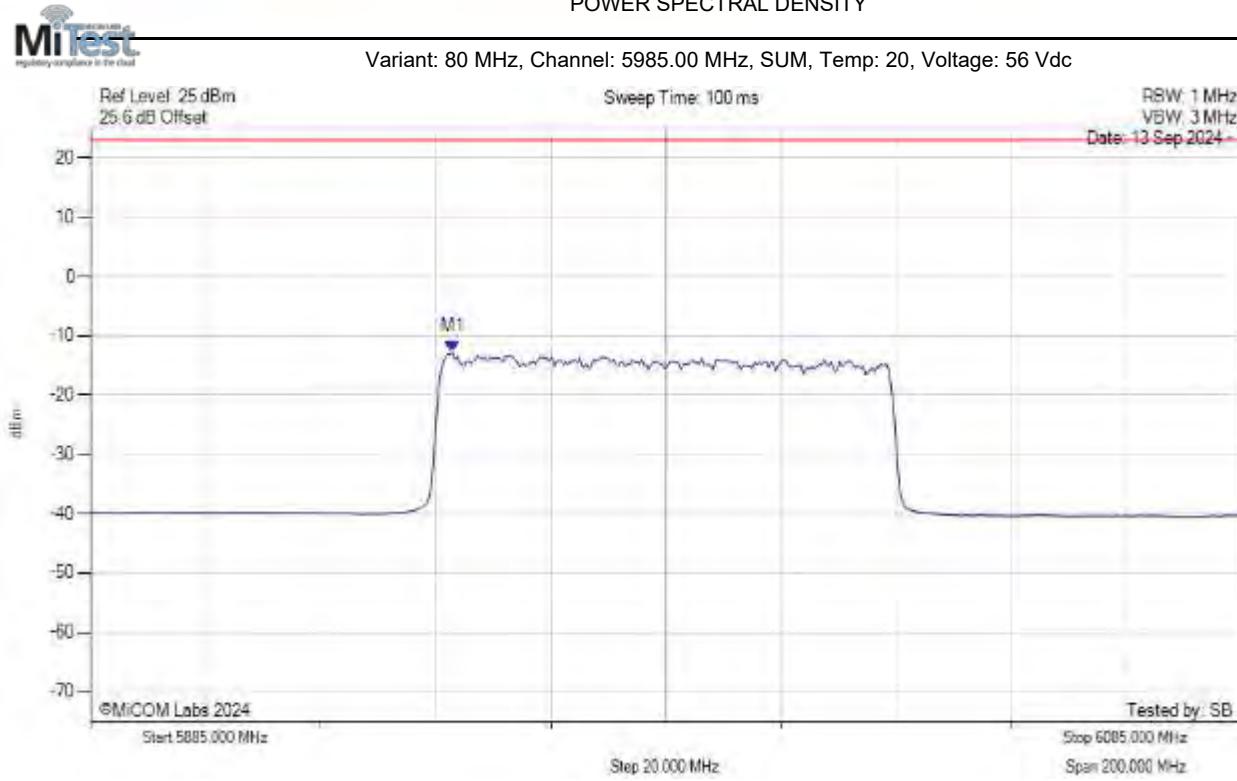
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5947.900 MHz : -10.299 dBm M1 + DCCF : 5947.900 MHz : -10.255 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -33.3 dB

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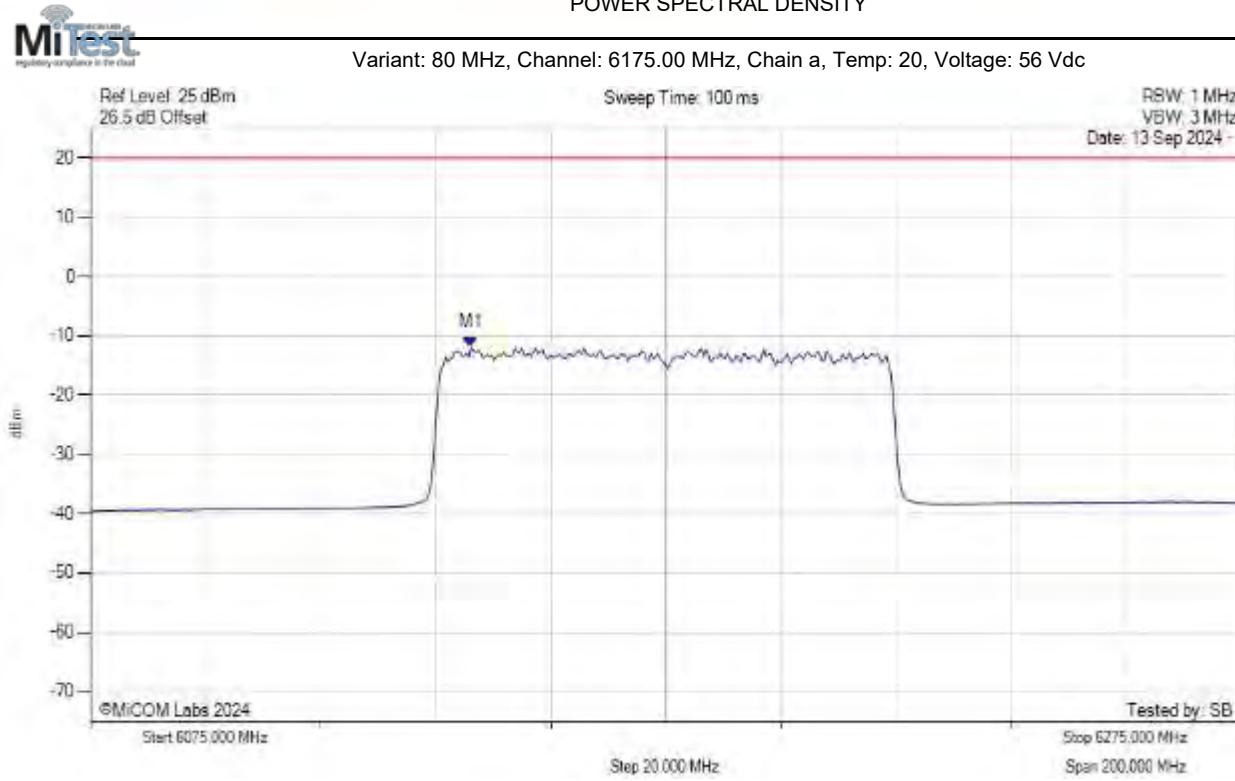
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5947.900 MHz : -12.755 dBm M1 + DCCF : 5947.900 MHz : -12.711 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -35.7 dB

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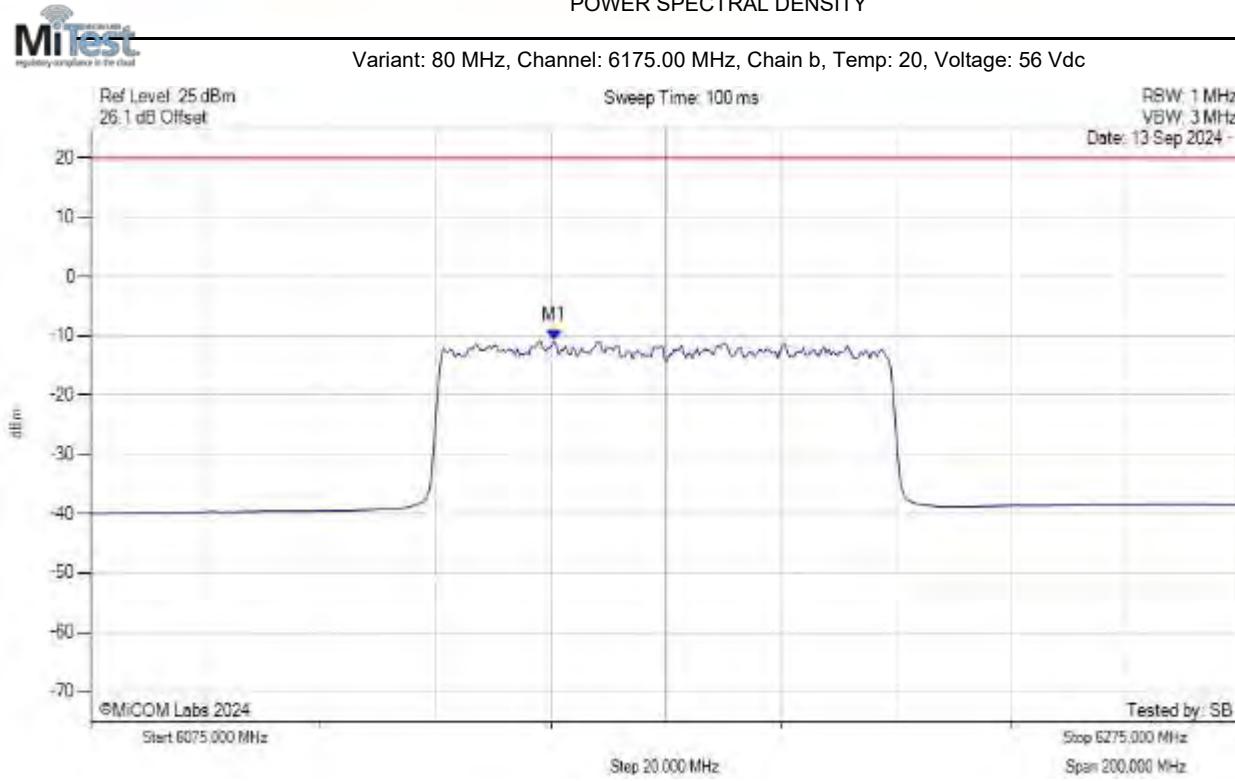
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6141.132 MHz : -11.956 dBm	Limit: ≤ 19.990 dBm

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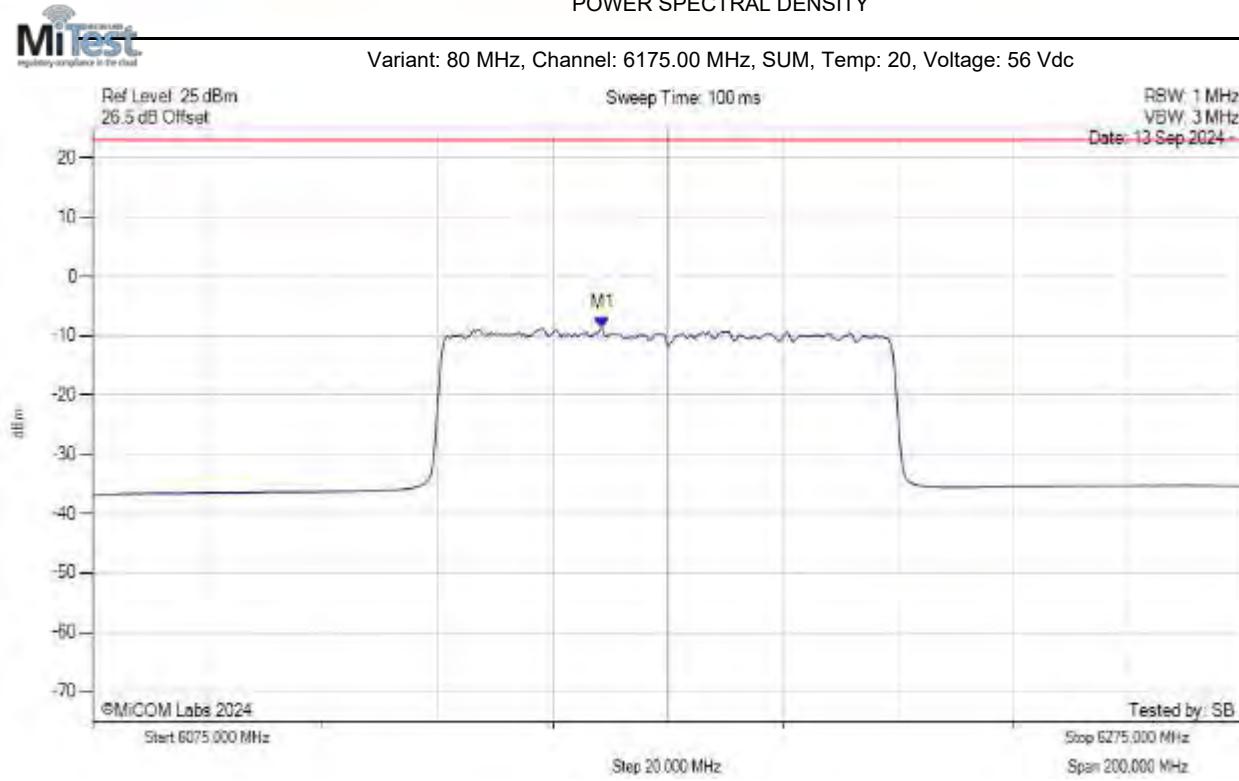
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6155.561 MHz : -10.878 dBm	Channel Frequency: 6175.00 MHz

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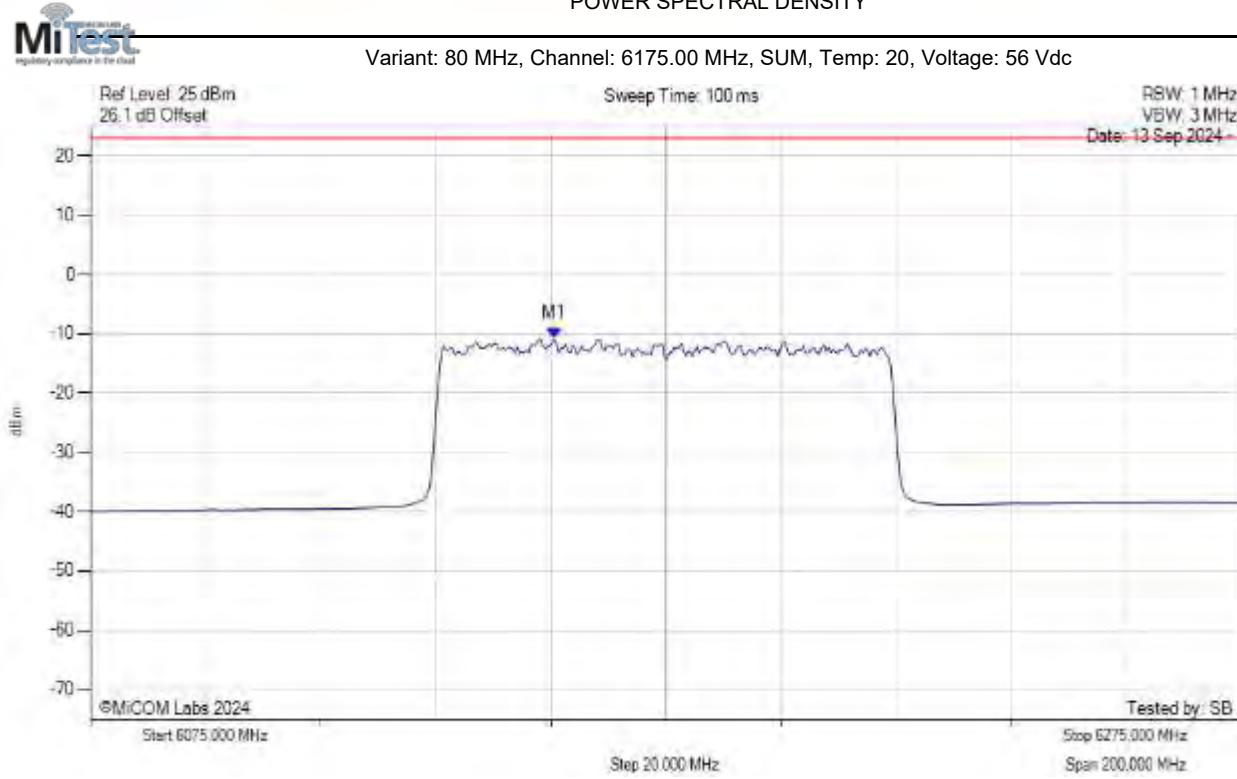
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6163.600 MHz : -8.700 dBm M1 + DCCF : 6163.600 MHz : -8.656 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -31.7 dB

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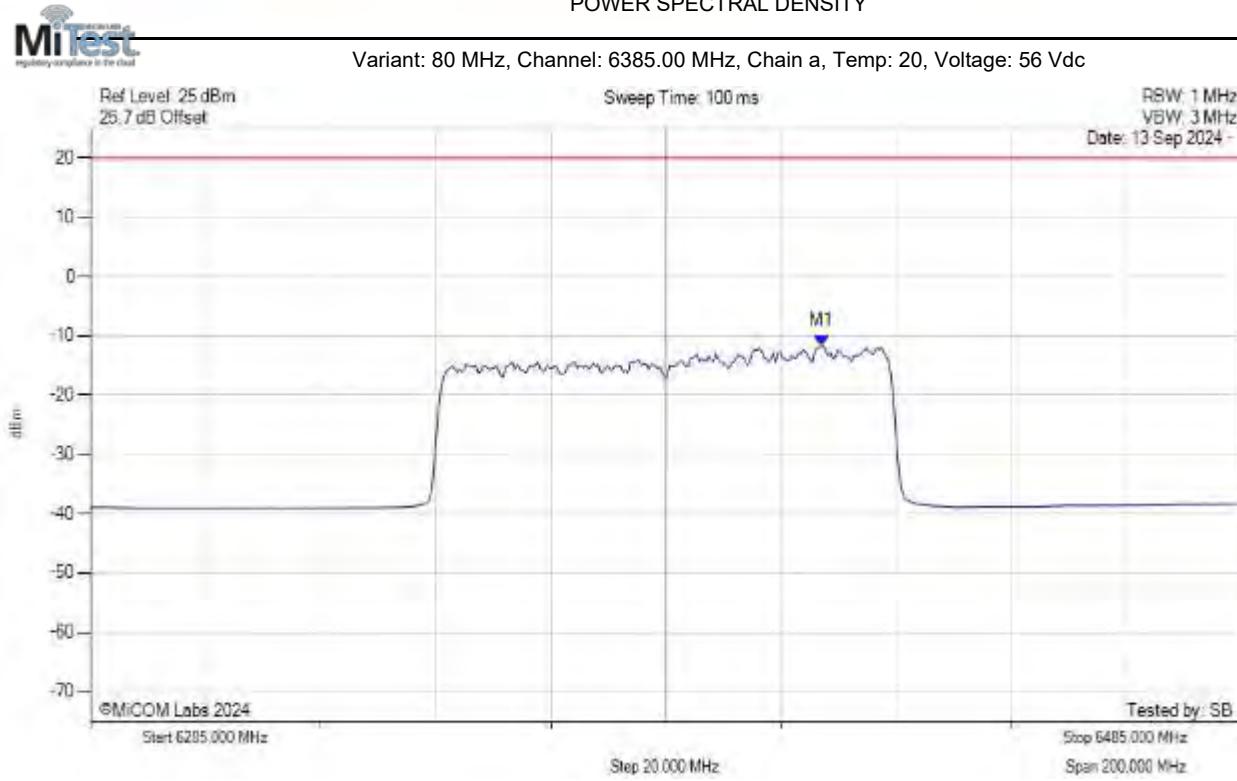
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6155.600 MHz : -10.878 dBm M1 + DCCF : 6155.600 MHz : -10.834 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -33.8 dB

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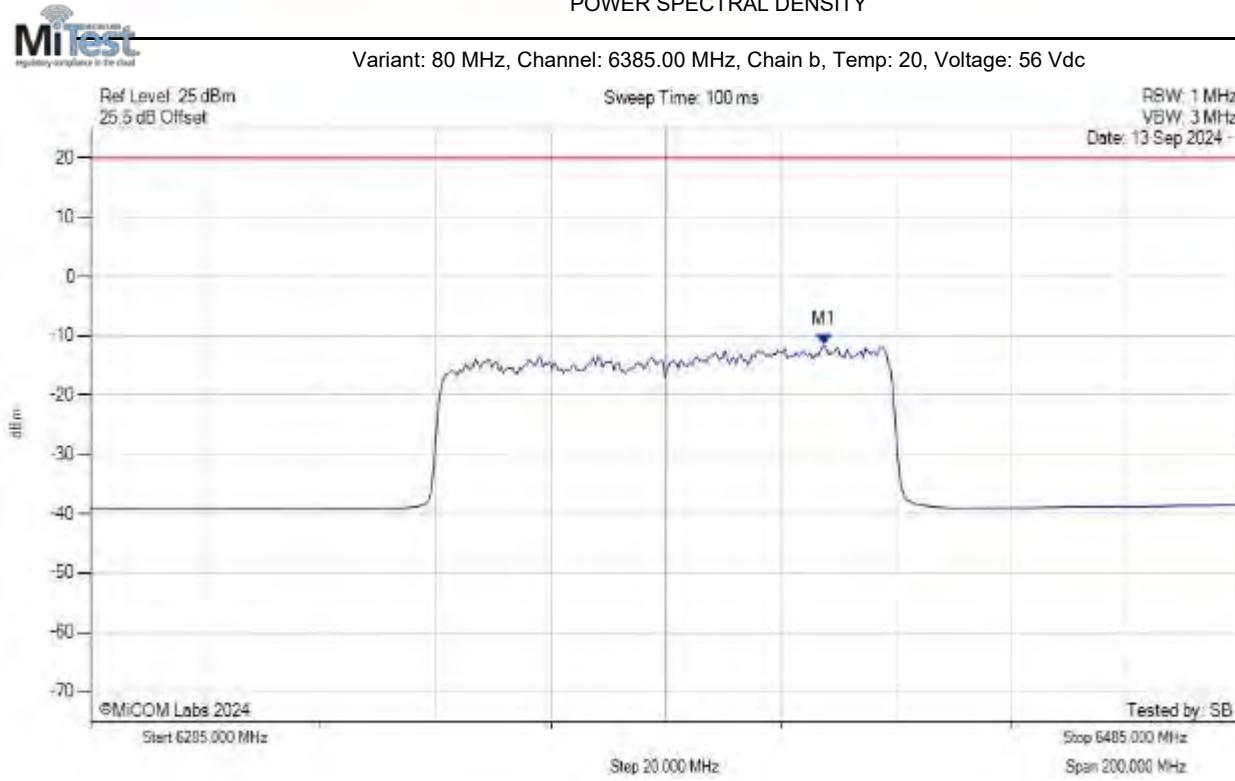
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.054 MHz : -11.767 dBm	Limit: ≤ 19.990 dBm

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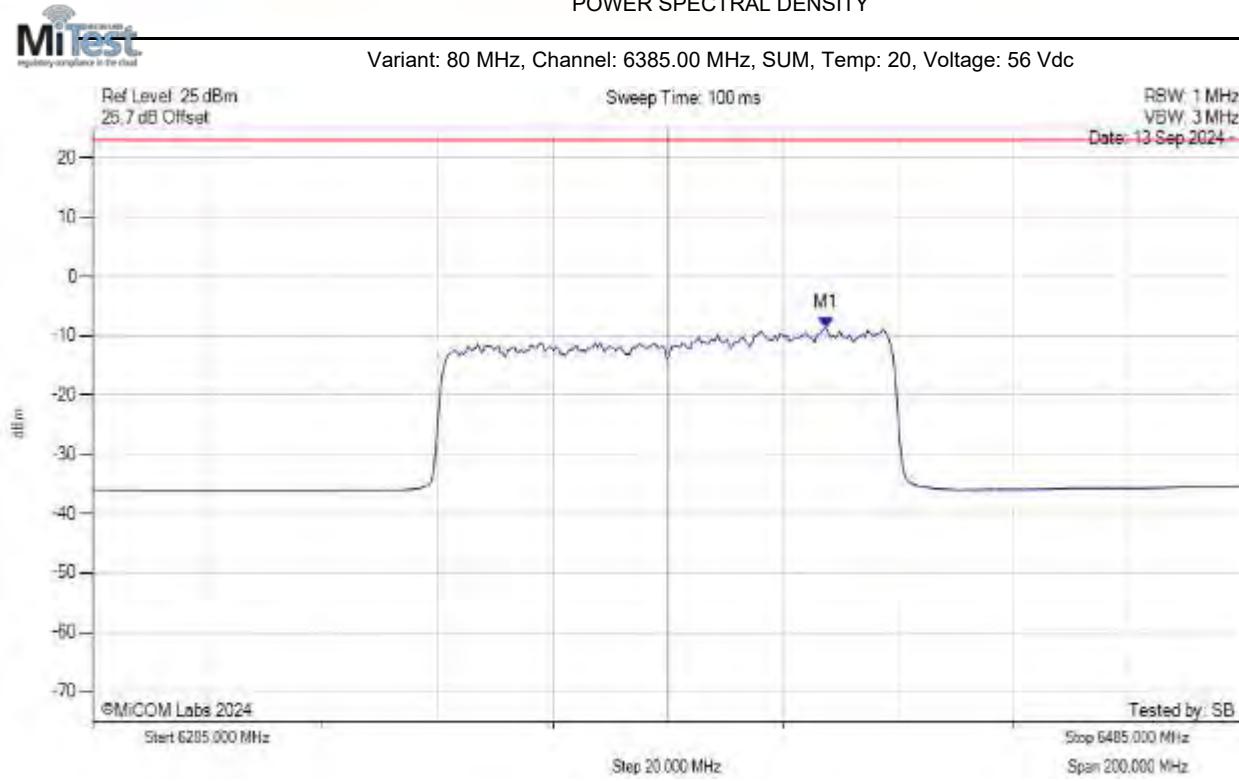
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.455 MHz : -11.559 dBm	Limit: ≤ 19.990 dBm

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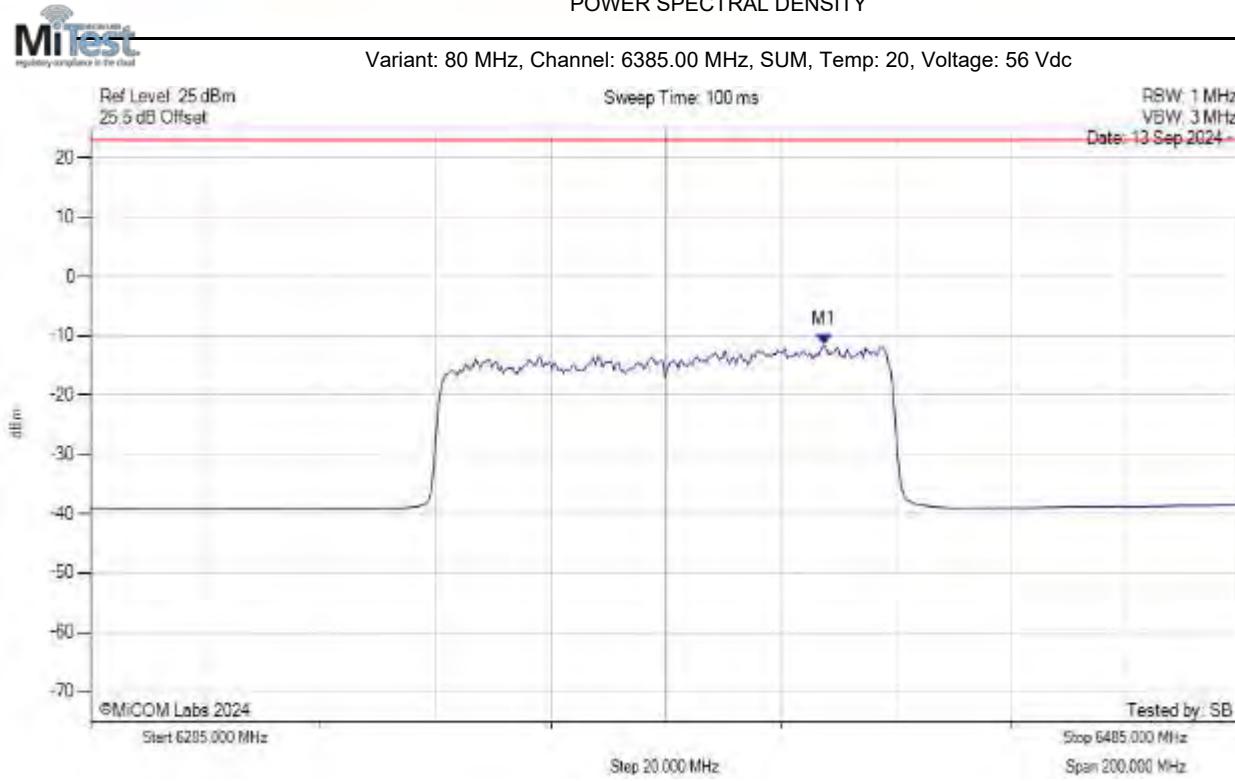
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.500 MHz : -8.664 dBm M1 + DCCF : 6412.500 MHz : -8.620 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -31.6 dB

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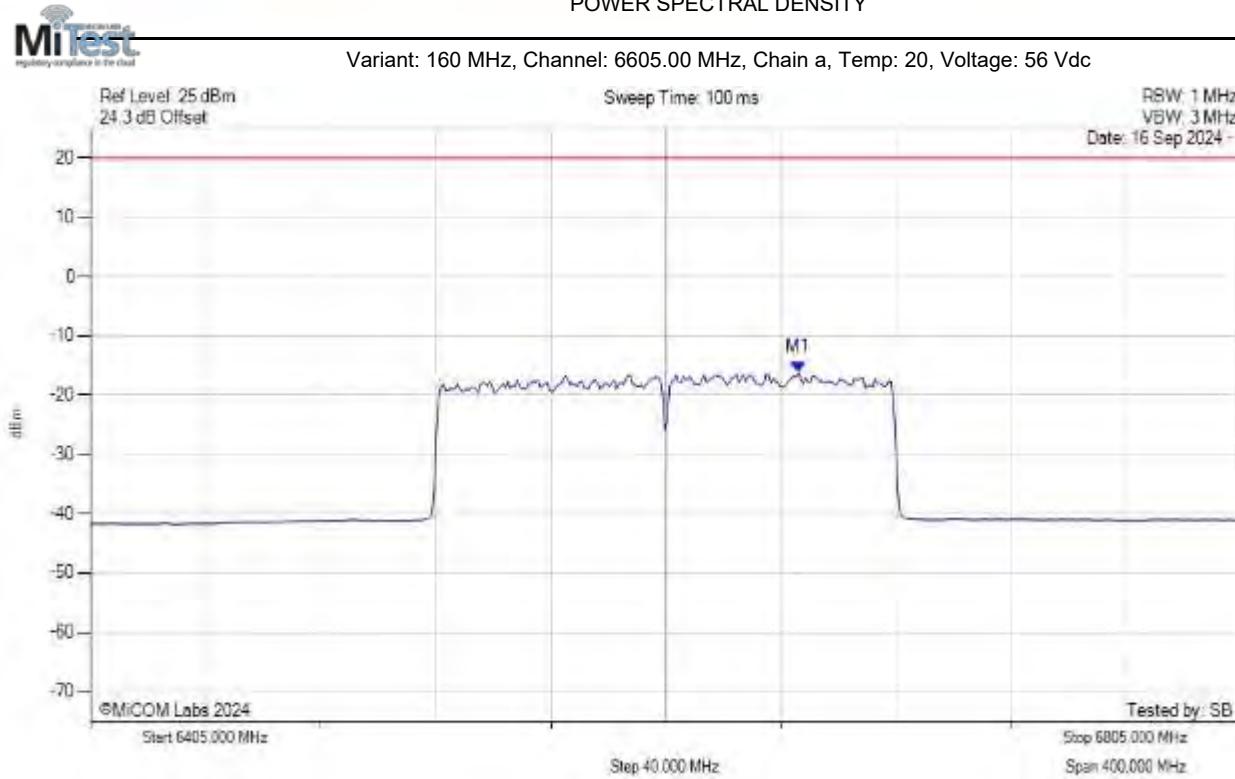
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6412.500 MHz : -11.559 dBm M1 + DCCF : 6412.500 MHz : -11.515 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -34.5 dB

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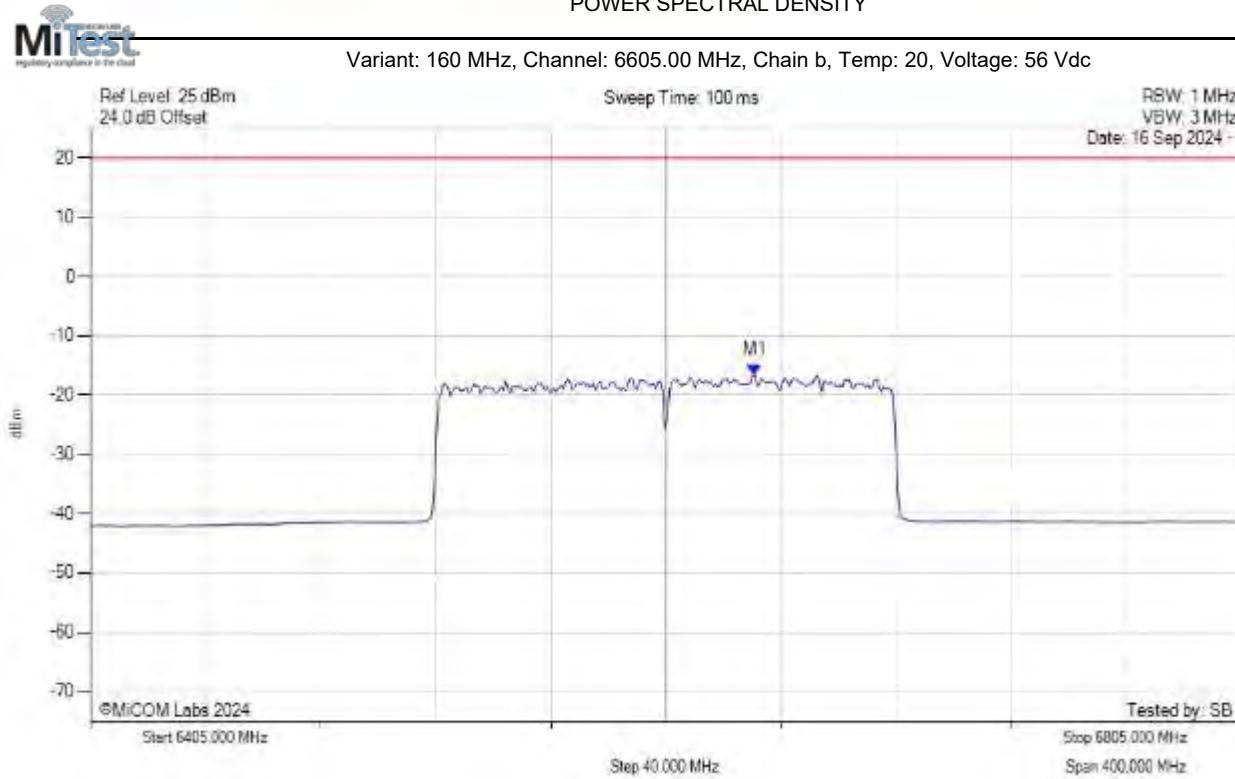
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6651.092 MHz : -16.220 dBm	Limit: ≤ 19.990 dBm

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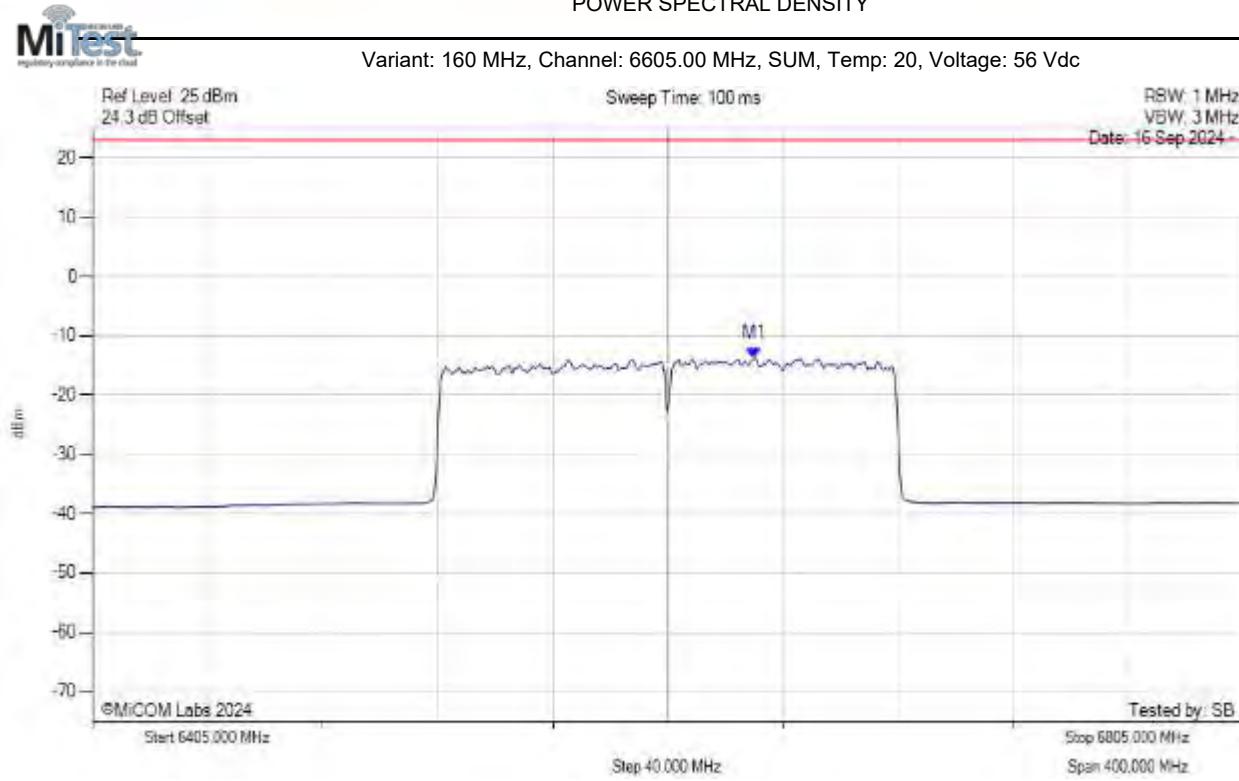
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6635.862 MHz : -16.668 dBm	Limit: ≤ 19.990 dBm

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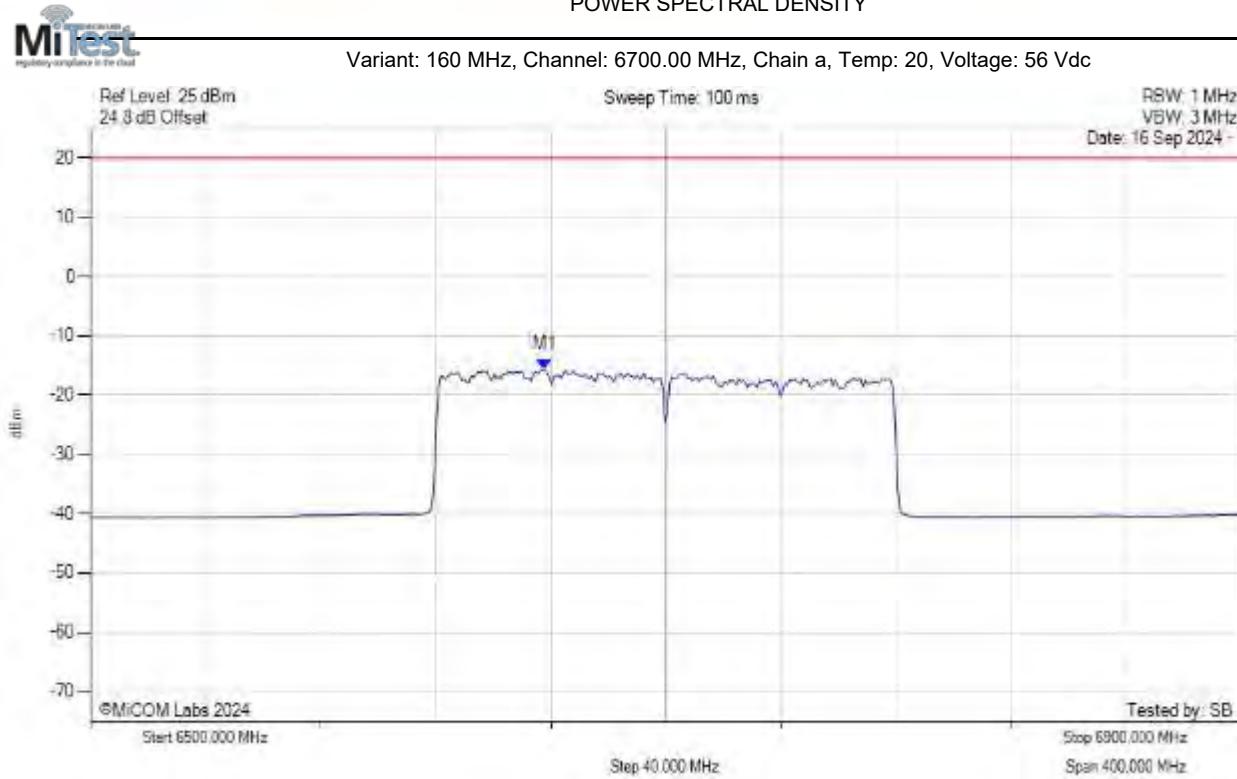
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6635.100 MHz : -13.759 dBm M1 + DCCF : 6635.100 MHz : -13.715 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -36.7 dB

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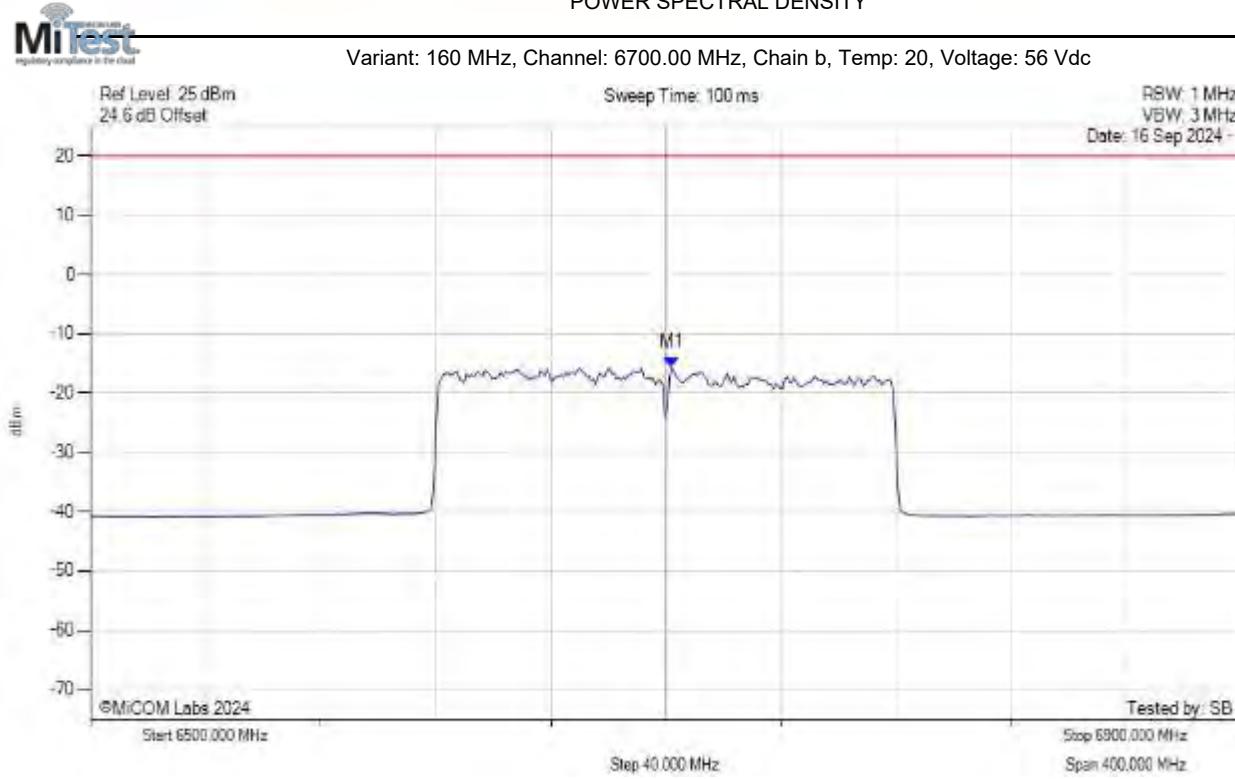
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6657.916 MHz : -15.652 dBm	Limit: ≤ 19.990 dBm

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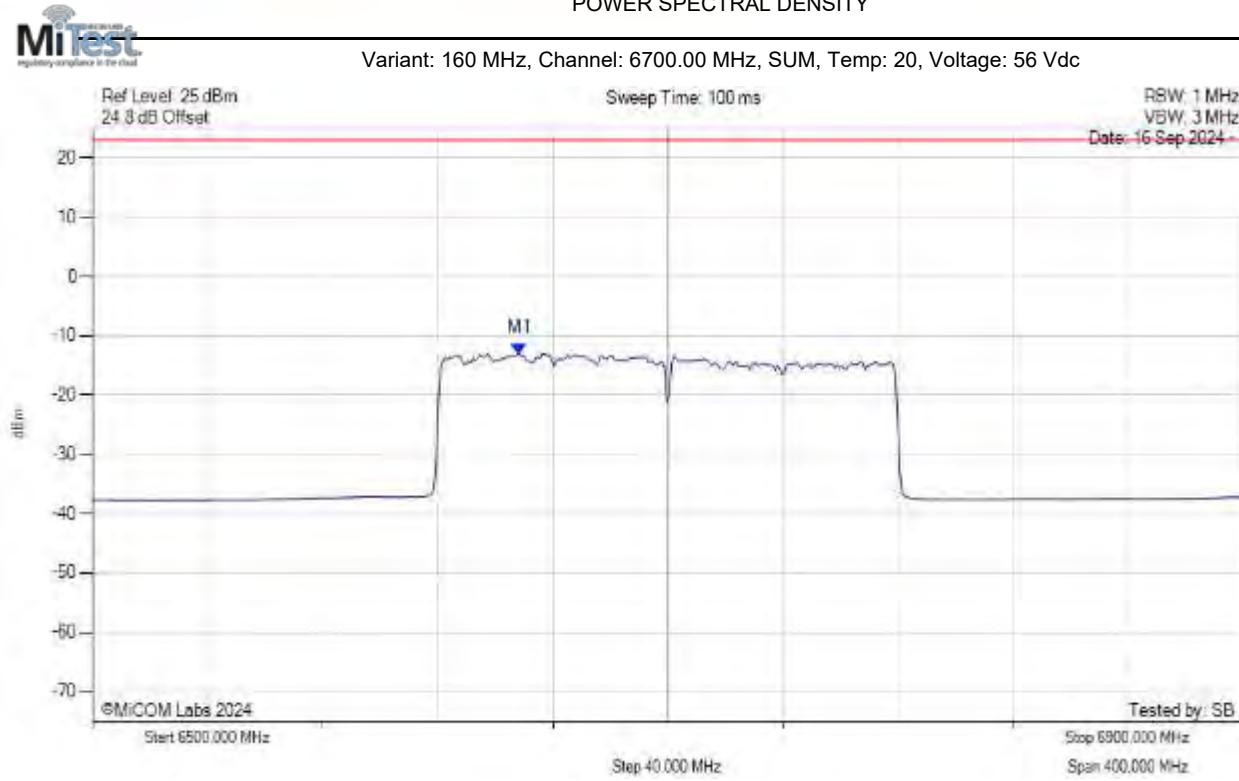
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6702.004 MHz : -15.777 dBm	Channel Frequency: 6700.00 MHz

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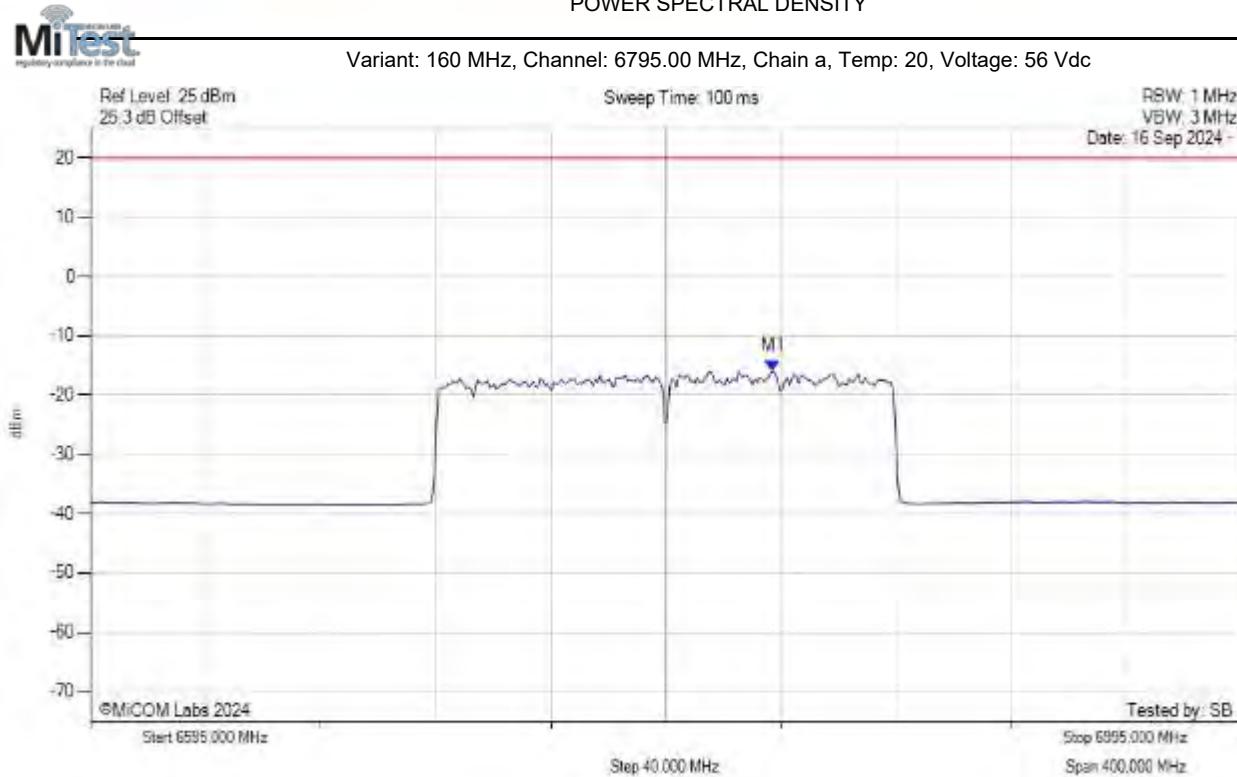
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6648.300 MHz : -13.015 dBm M1 + DCCF : 6648.300 MHz : -12.971 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -36.0 dB

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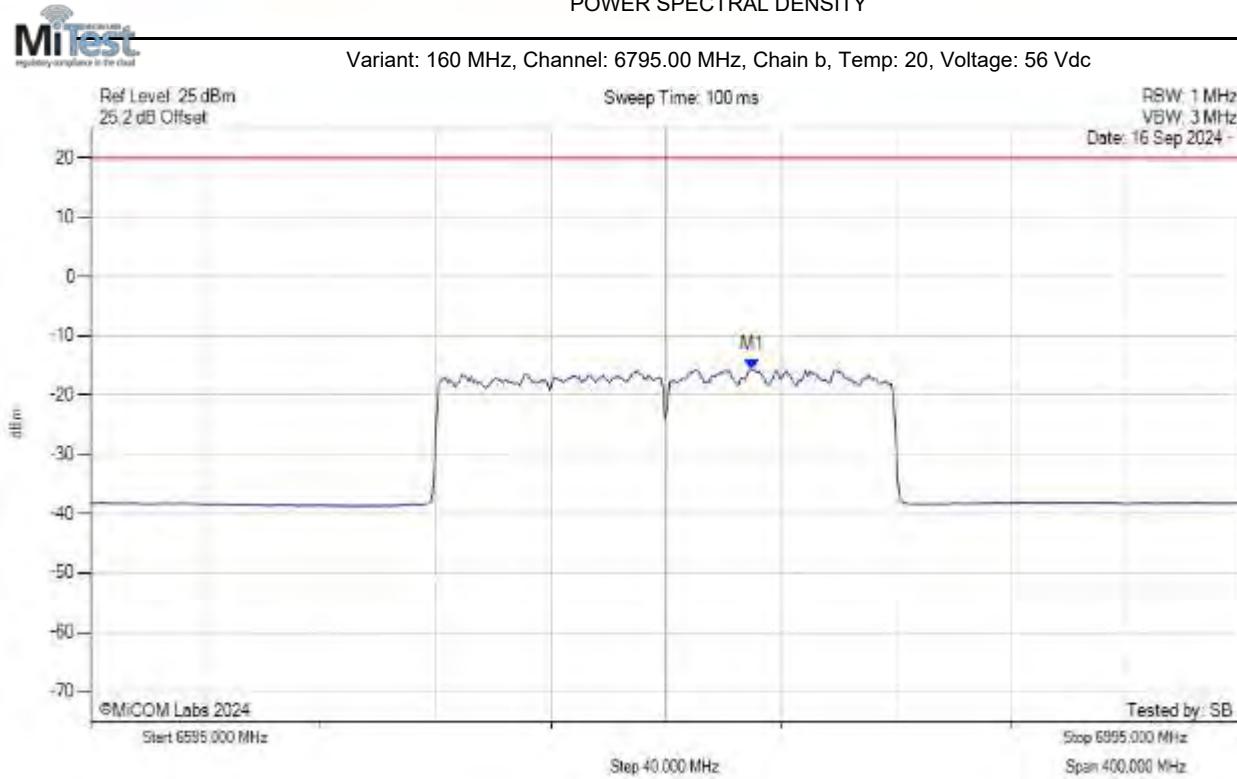
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6832.275 MHz : -16.008 dBm	Limit: ≤ 19.990 dBm

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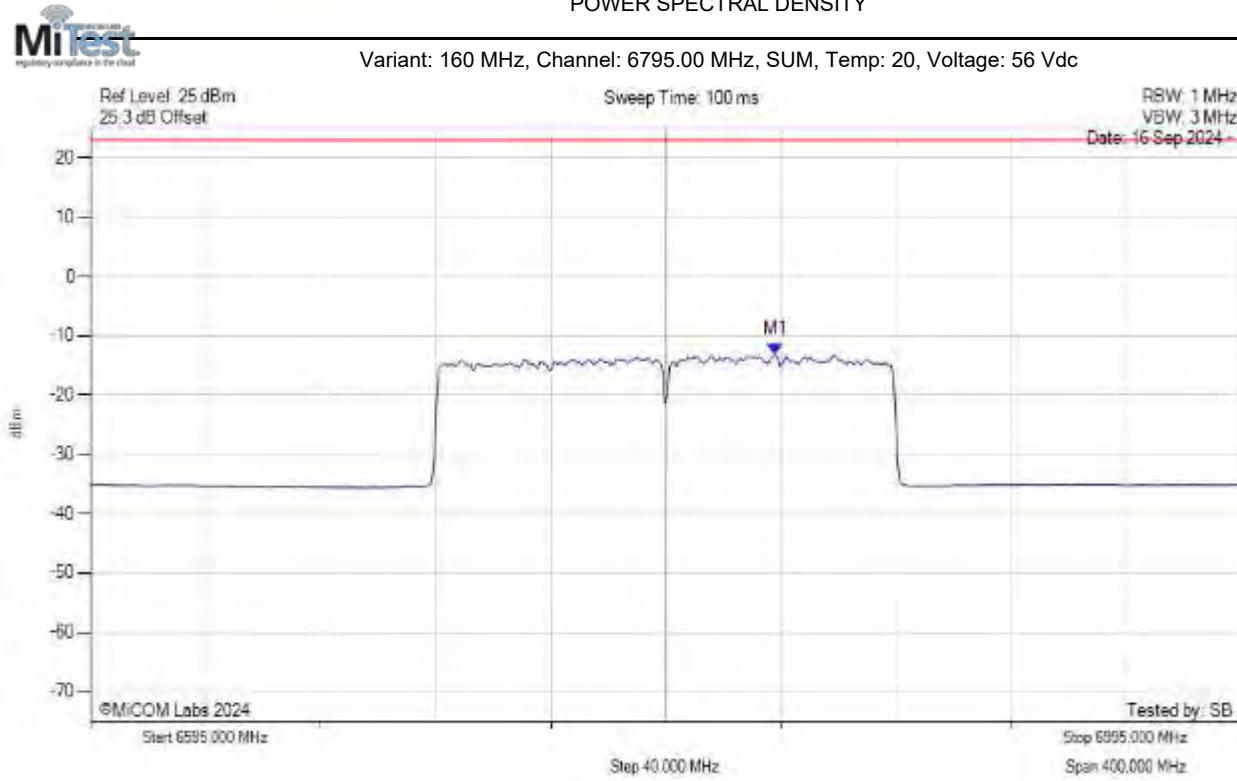
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6825.060 MHz : -15.662 dBm	Limit: ≤ 19.990 dBm

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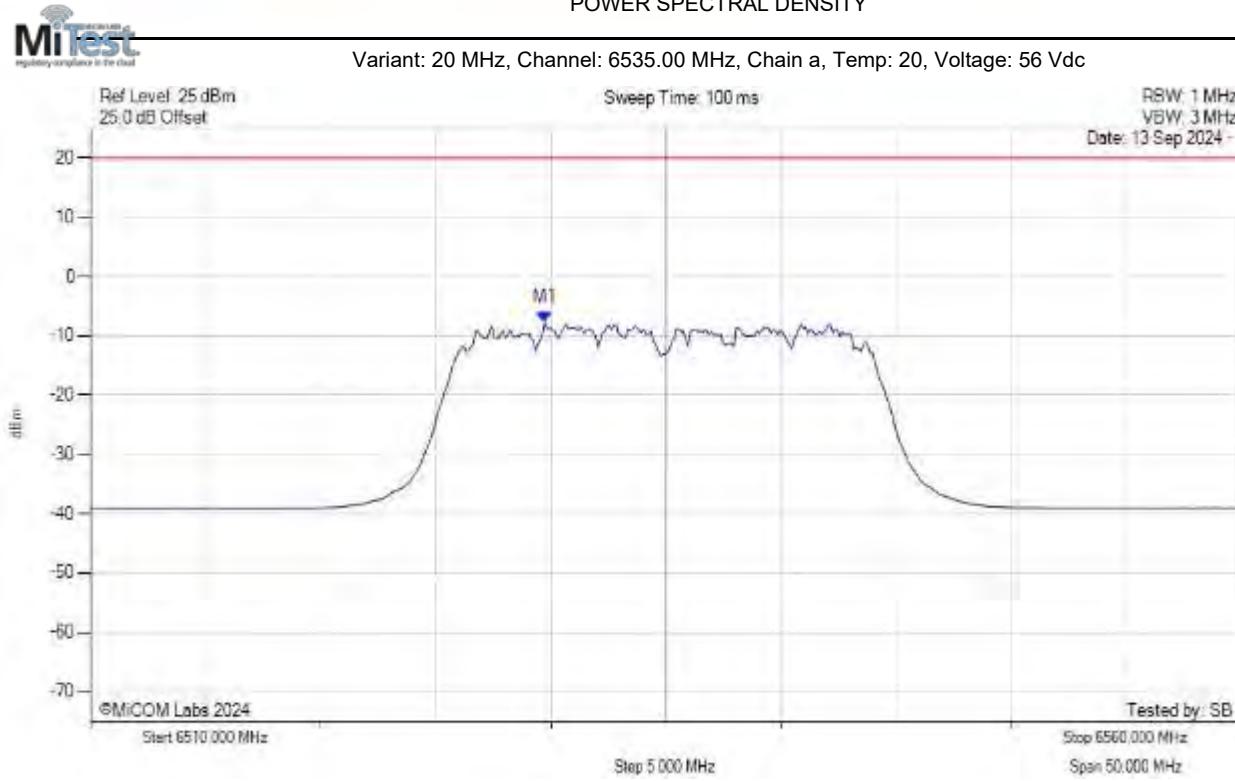
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6833.100 MHz : -13.113 dBm M1 + DCCF : 6833.100 MHz : -13.069 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -36.1 dB

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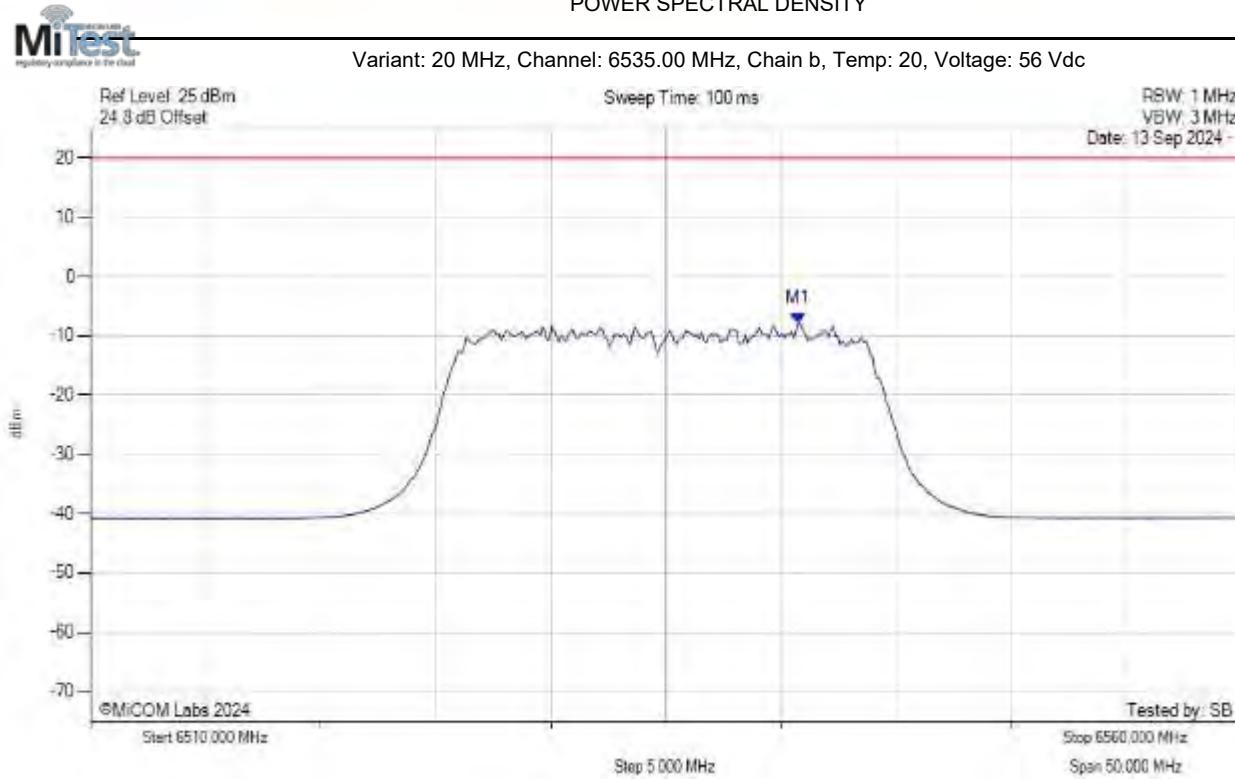
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6529.739 MHz : -7.767 dBm	Limit: ≤ 19.990 dBm

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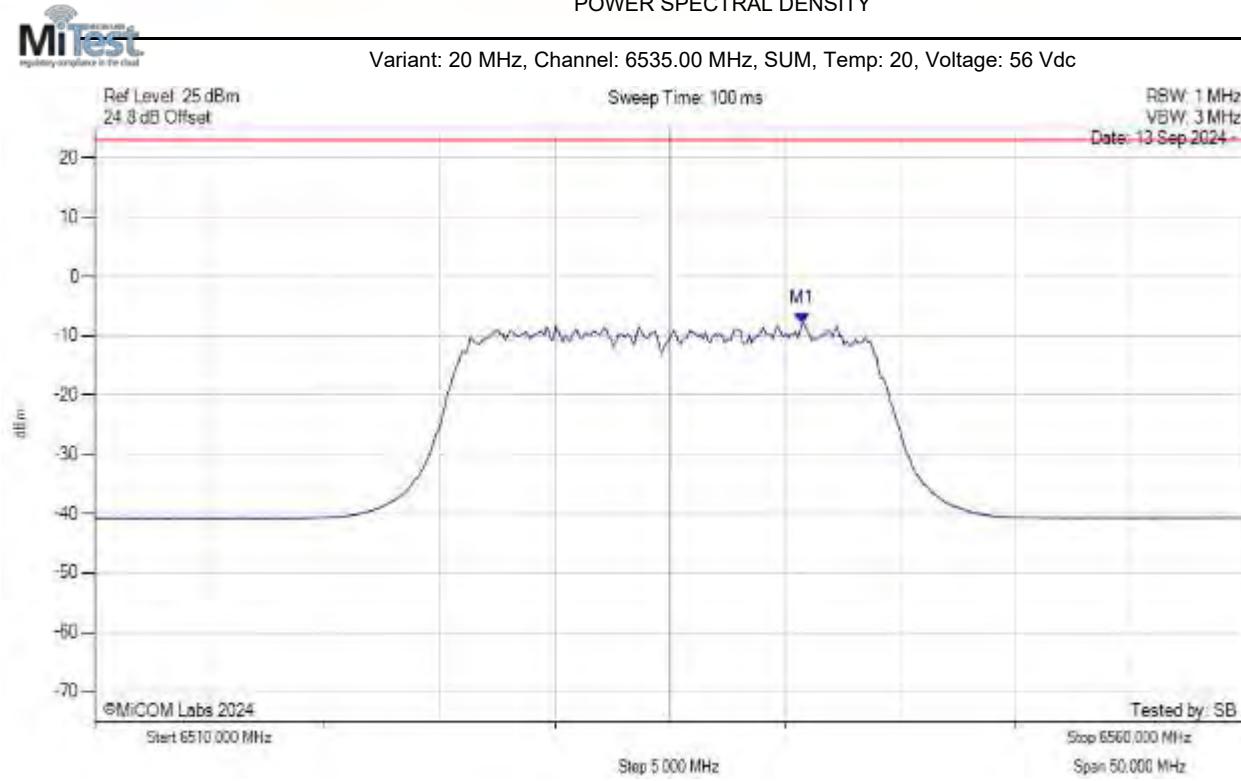
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6540.762 MHz : -7.944 dBm	Limit: ≤ 19.990 dBm

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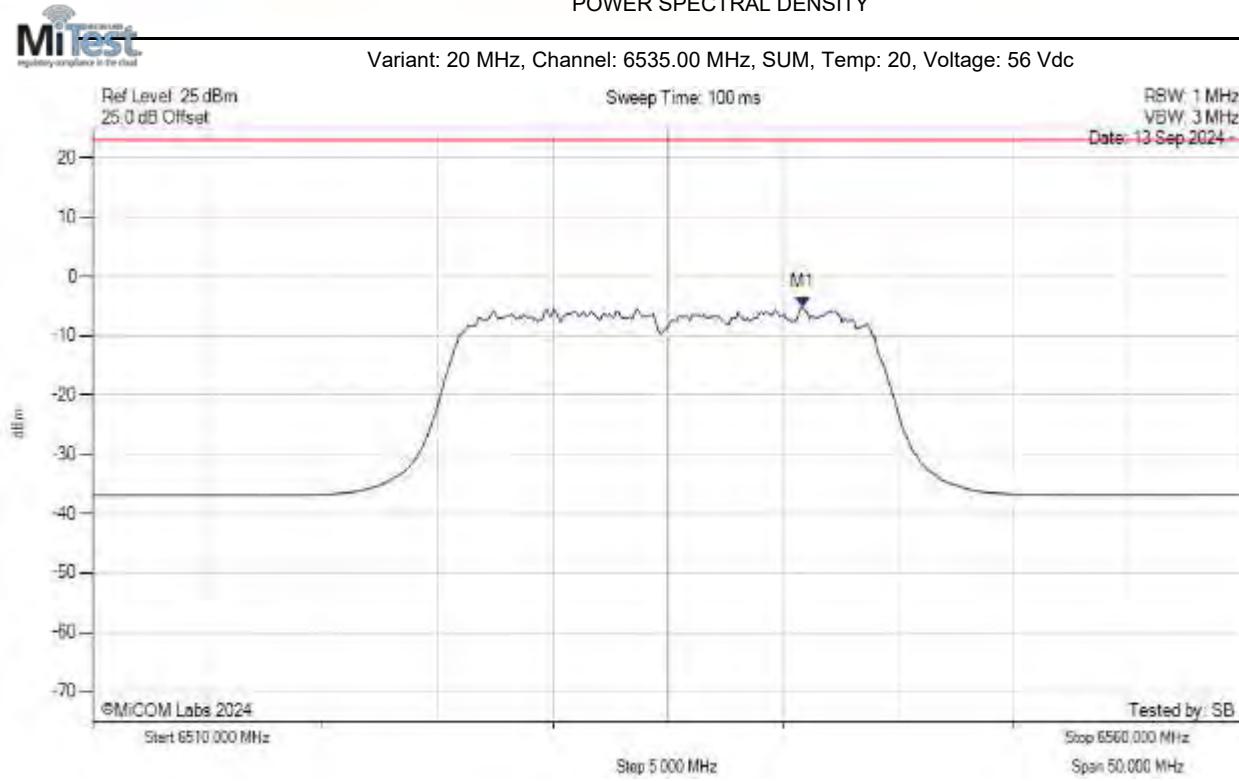
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6540.800 MHz : -7.944 dBm M1 + DCCF : 6540.800 MHz : -7.900 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.9 dB

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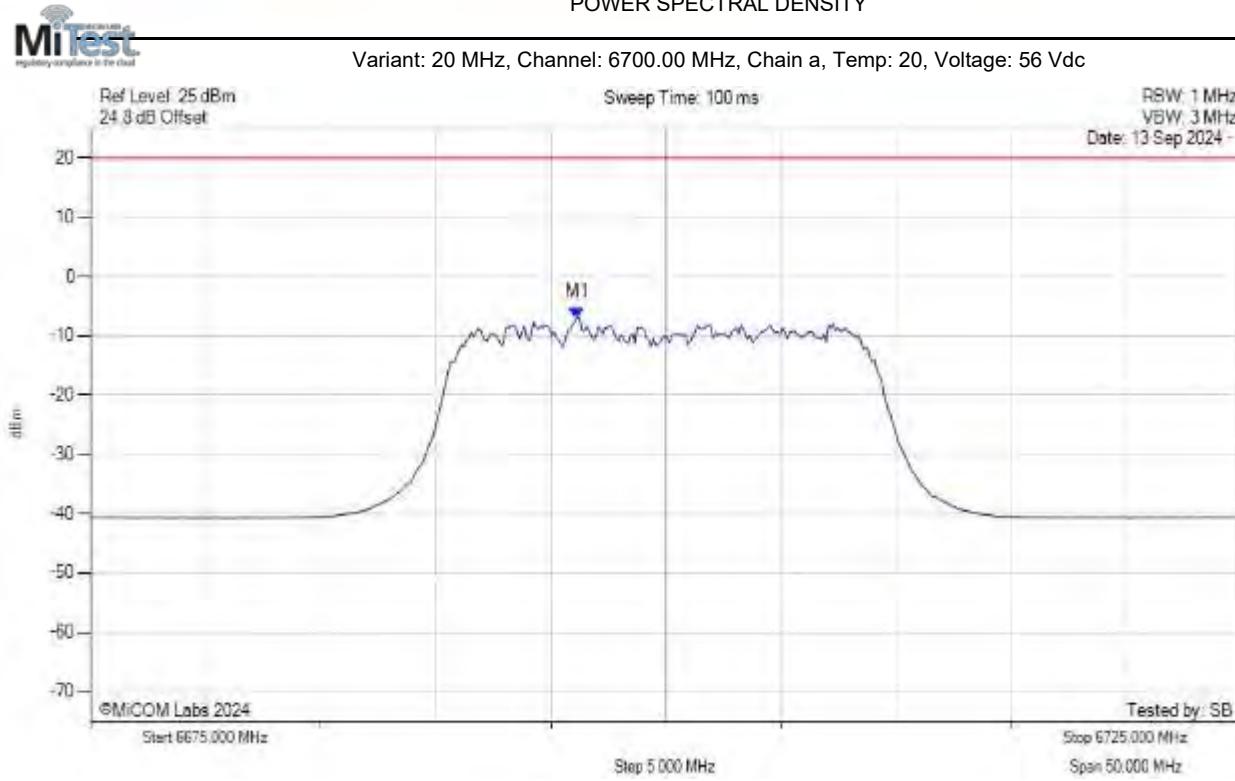
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6540.900 MHz : -5.096 dBm M1 + DCCF : 6540.900 MHz : -5.052 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -28.1 dB

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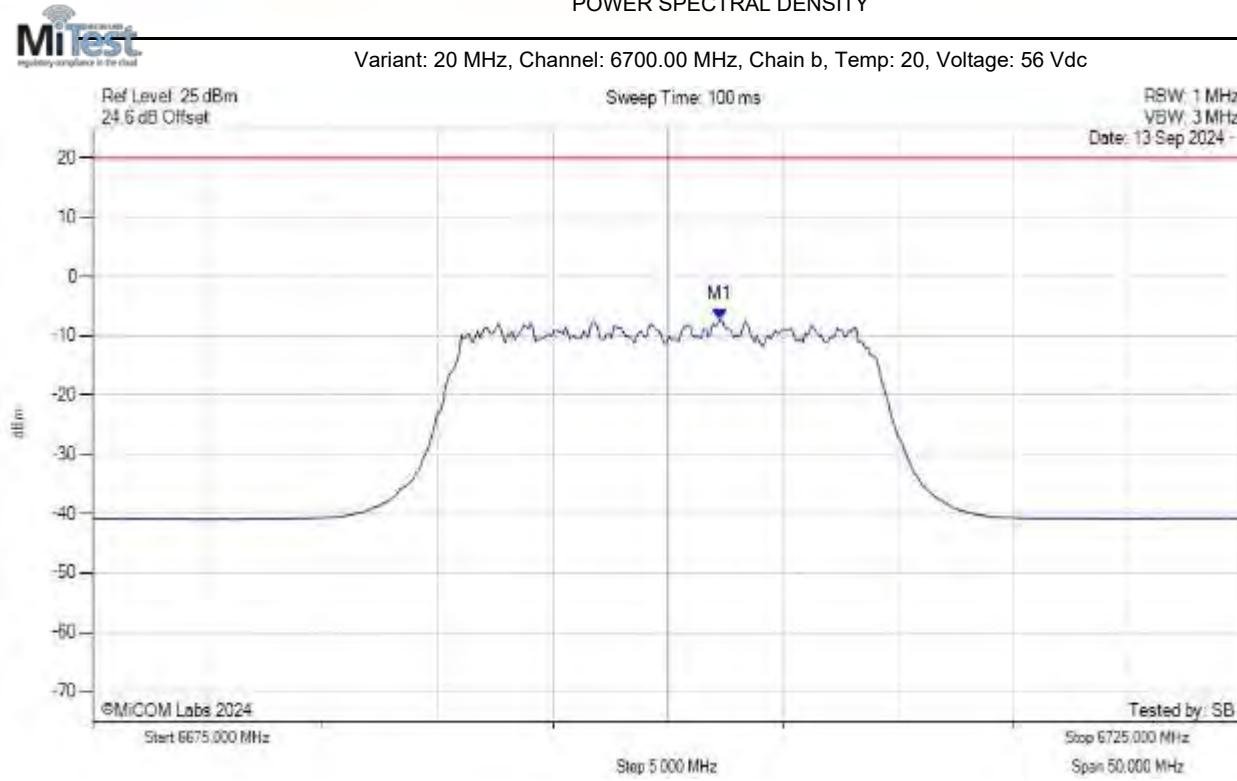
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6696.142 MHz : -6.942 dBm	Limit: ≤ 19.990 dBm

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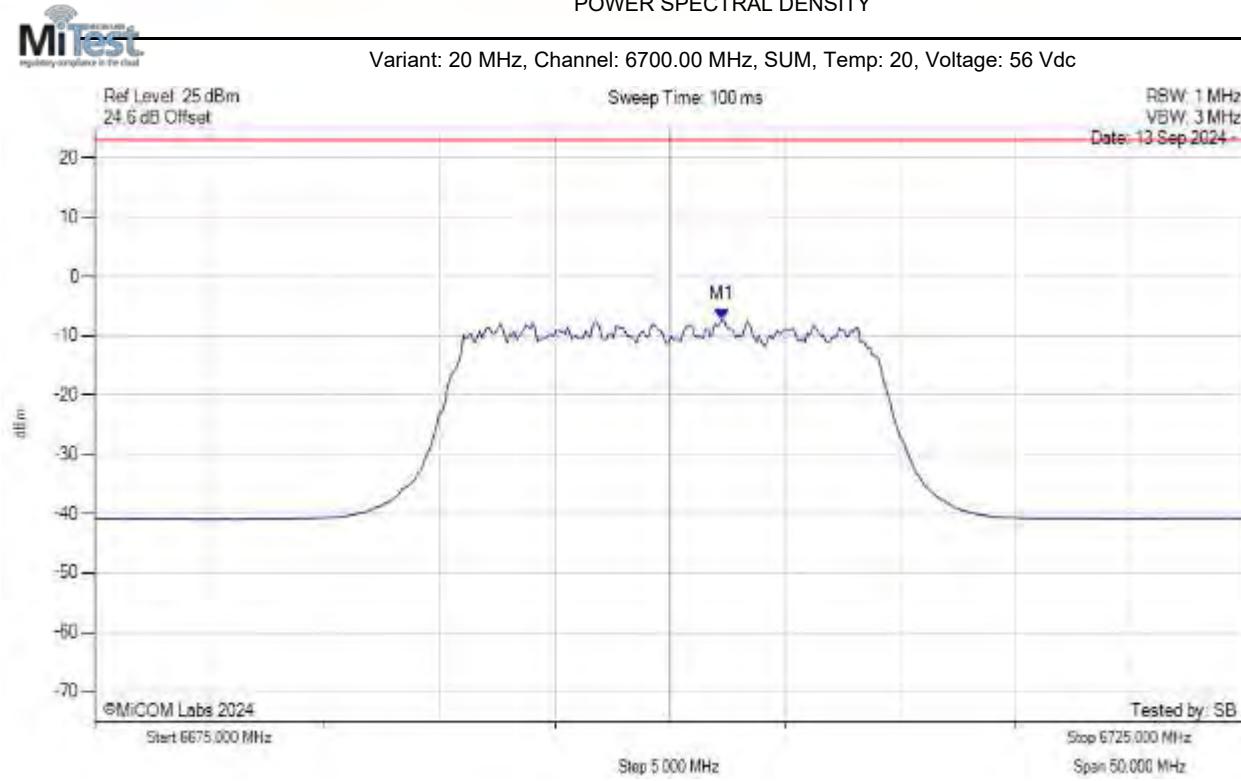
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6702.255 MHz : -7.219 dBm	Channel Frequency: 6700.00 MHz

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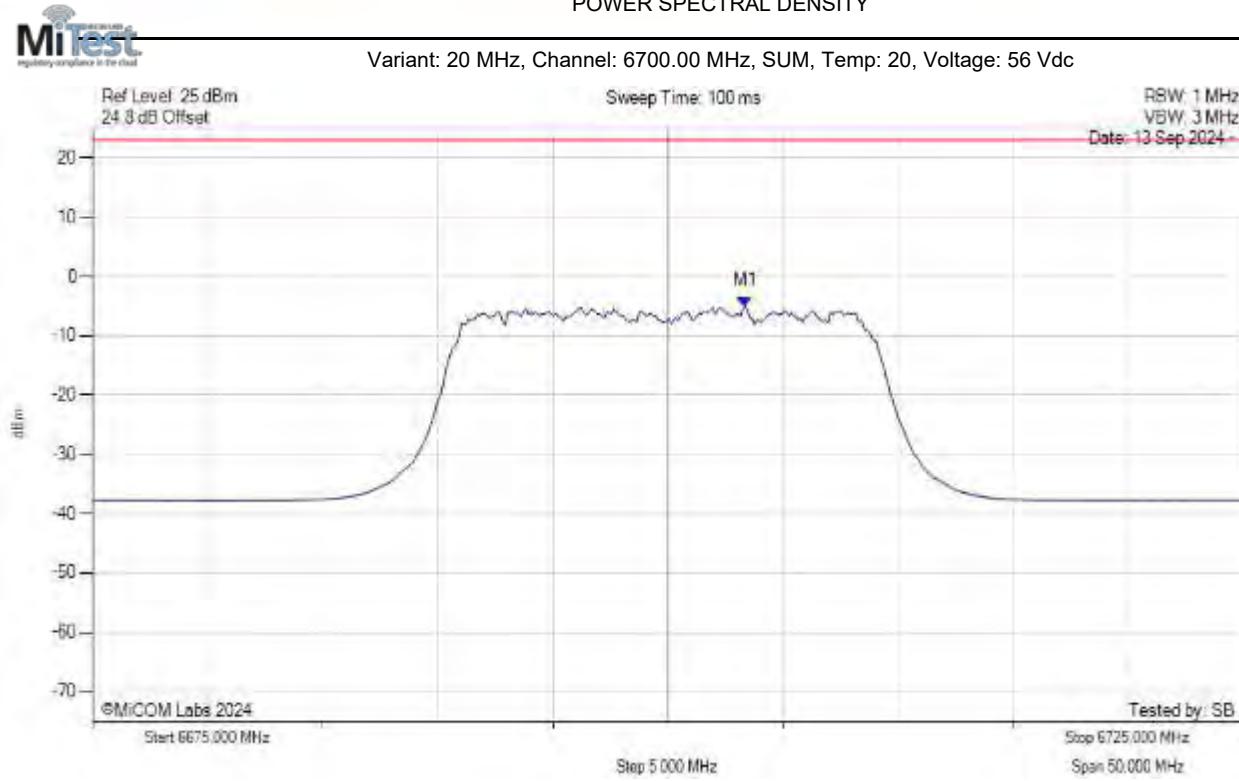
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6702.300 MHz : -7.219 dBm M1 + DCCF : 6702.300 MHz : -7.175 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.2 dB

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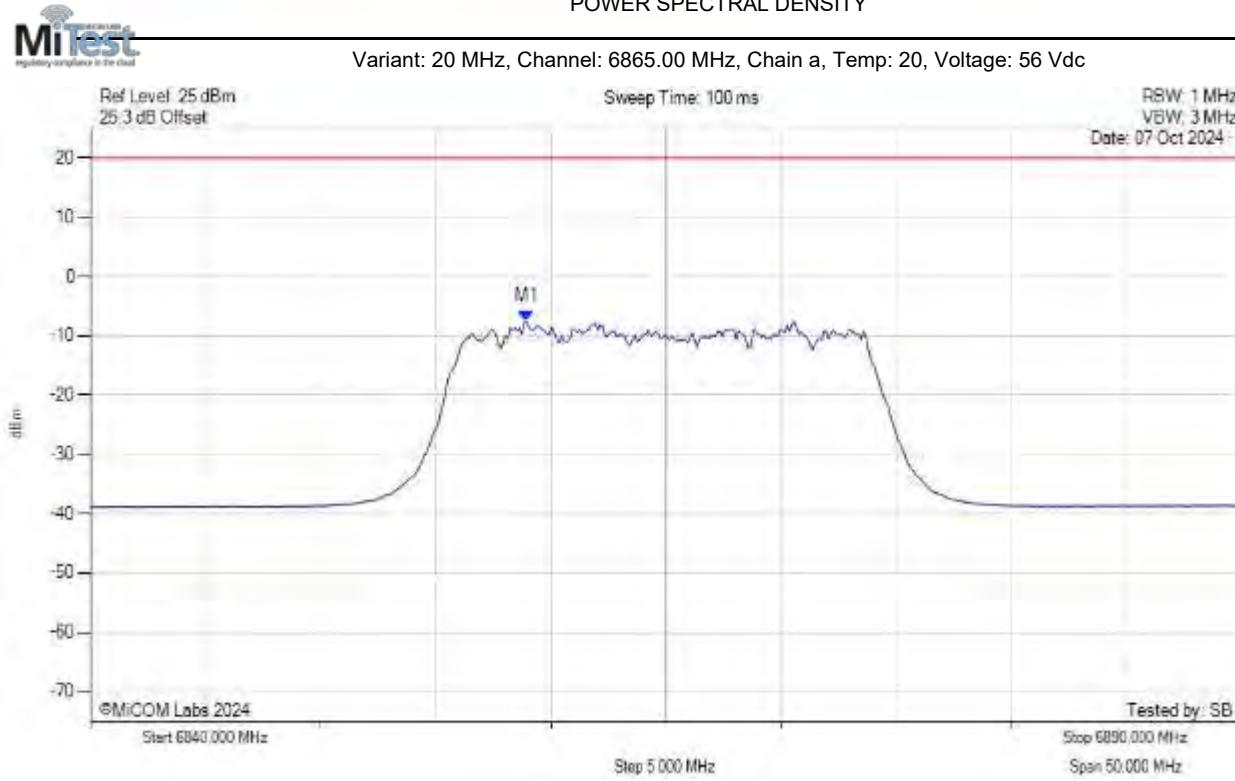
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6703.400 MHz : -5.064 dBm M1 + DCCF : 6703.400 MHz : -5.020 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -28.0 dB

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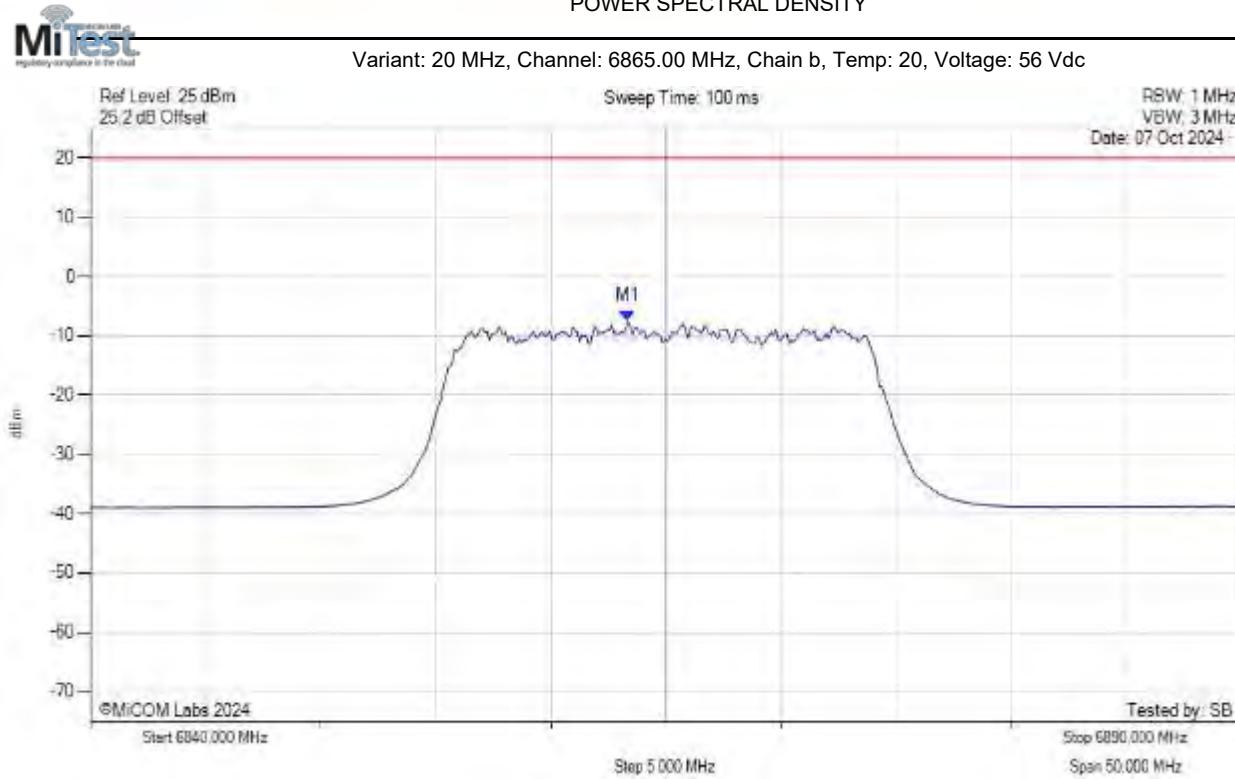
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6858.938 MHz : -7.543 dBm	Limit: ≤ 19.990 dBm

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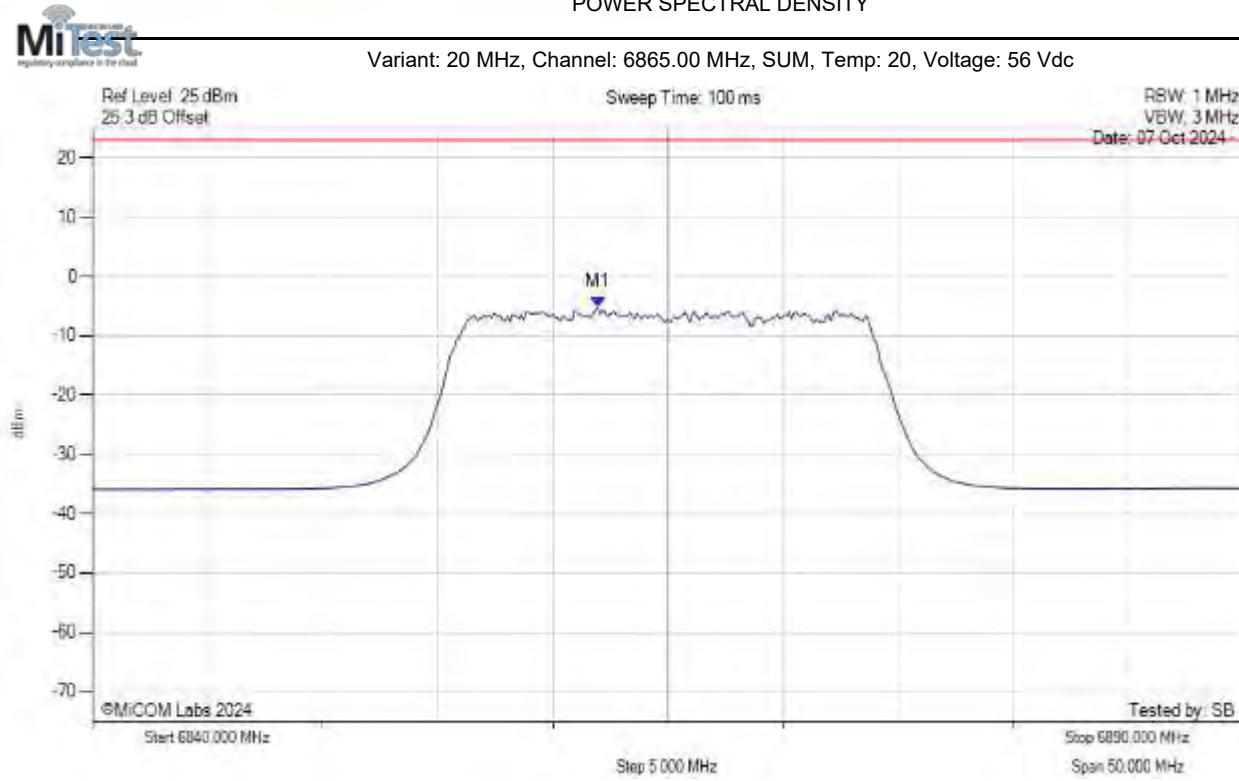
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6863.347 MHz : -7.559 dBm	Limit: ≤ 19.990 dBm

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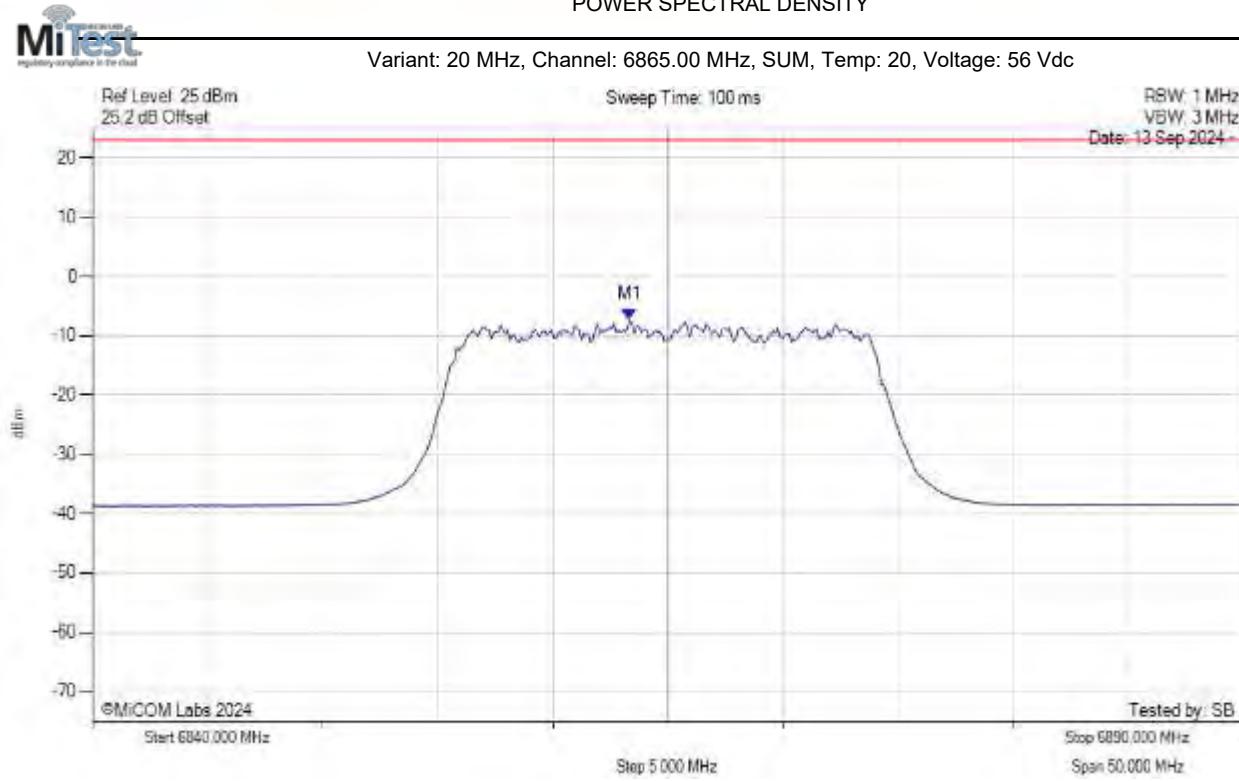
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6861.900 MHz : -5.202 dBm M1 + DCCF : 6861.900 MHz : -5.158 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -28.2 dB

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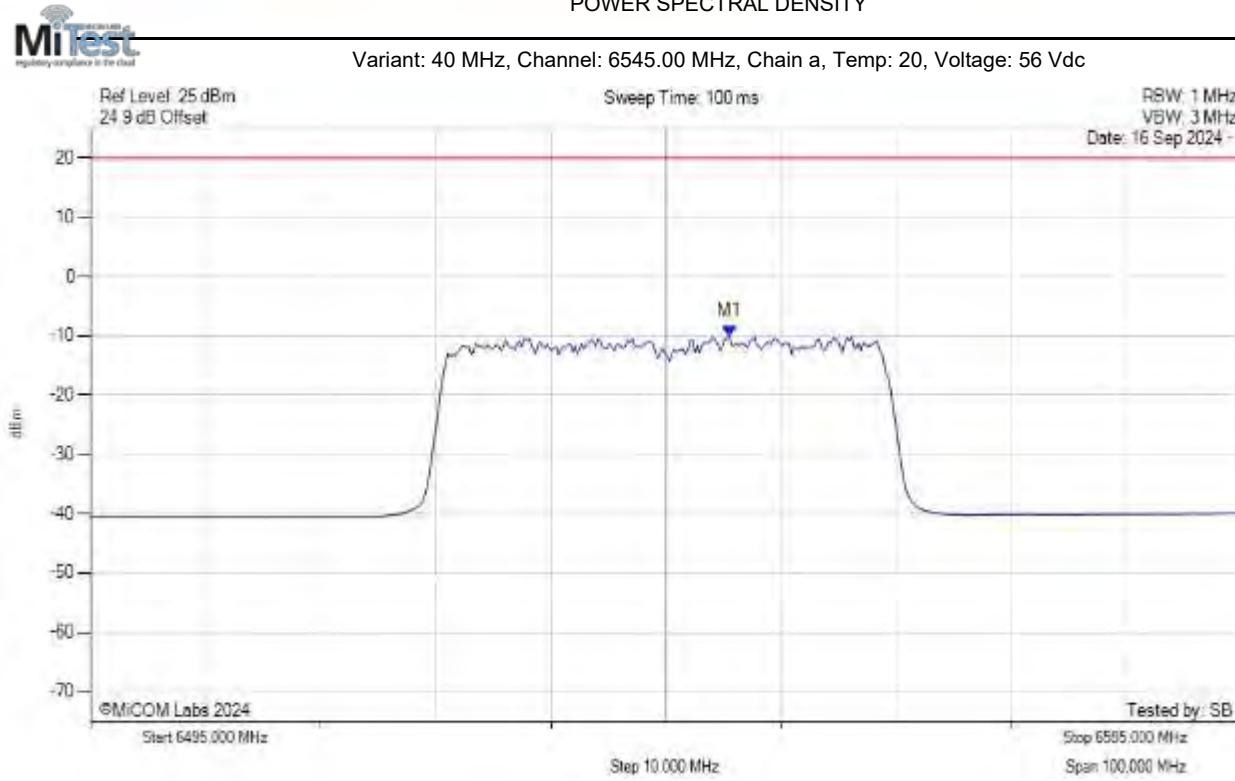
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6863.300 MHz : -7.309 dBm M1 + DCCF : 6863.300 MHz : -7.265 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.3 dB

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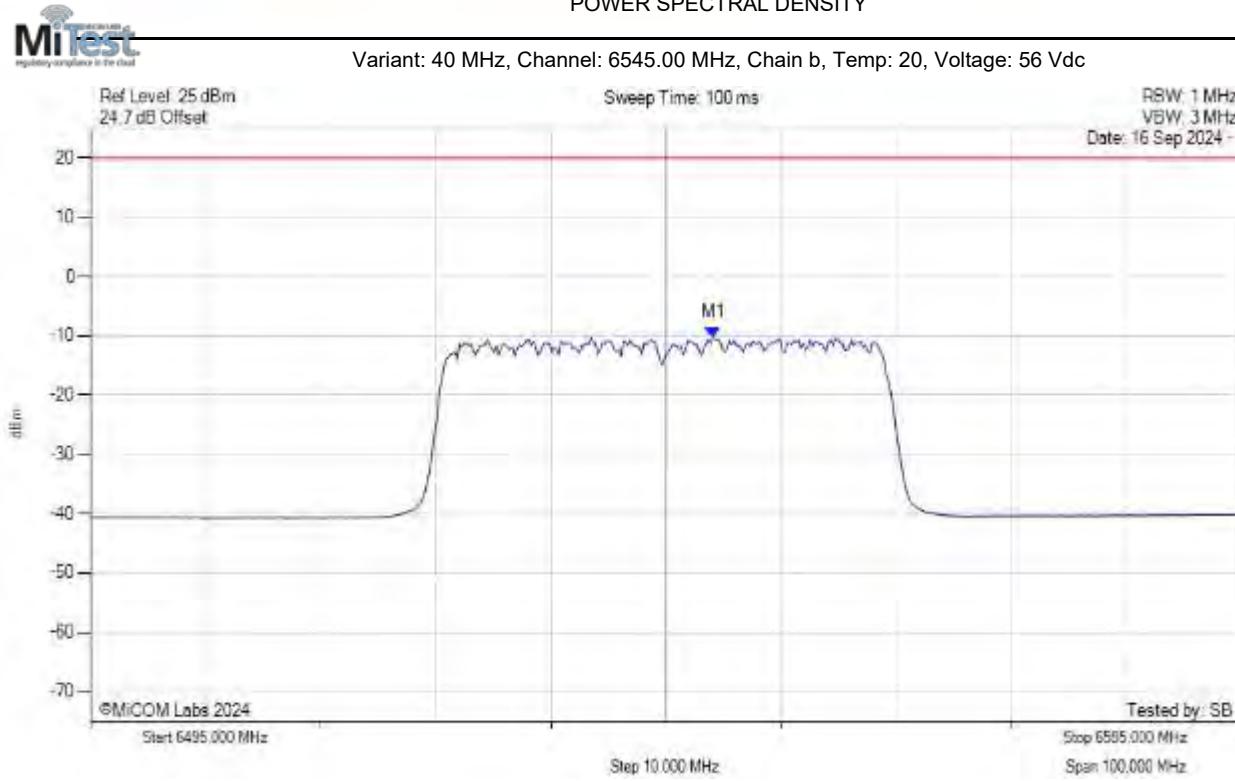
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6550.511 MHz : -10.036 dBm	Limit: ≤ 19.990 dBm

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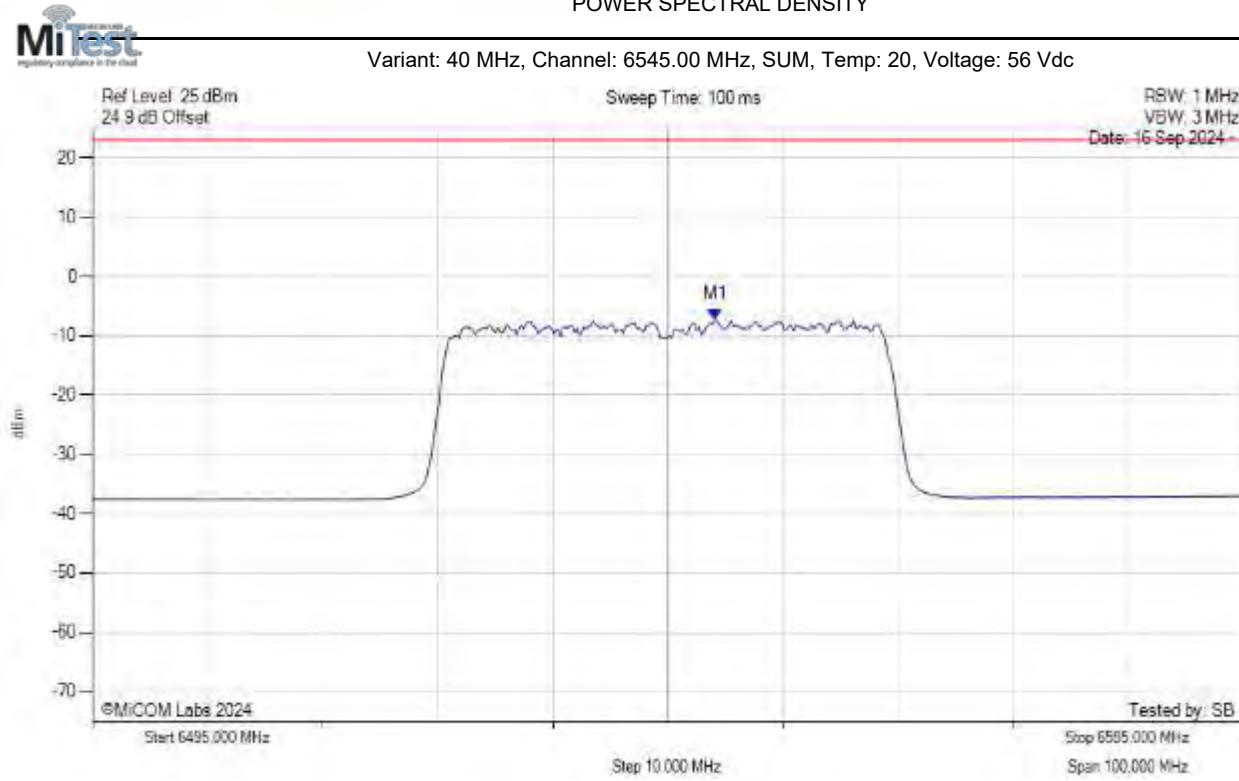
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6549.108 MHz : -10.269 dBm	Limit: ≤ 19.990 dBm

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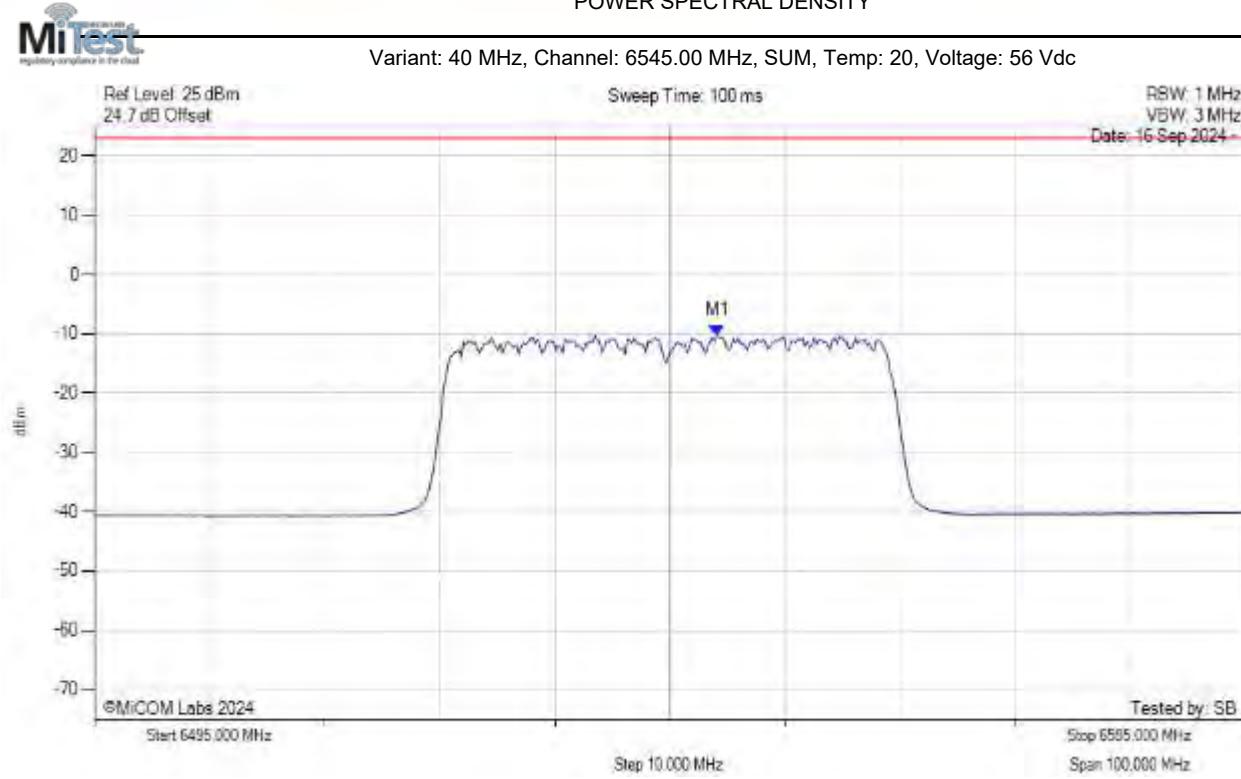
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6549.100 MHz : -7.341 dBm M1 + DCCF : 6549.100 MHz : -7.297 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.3 dB

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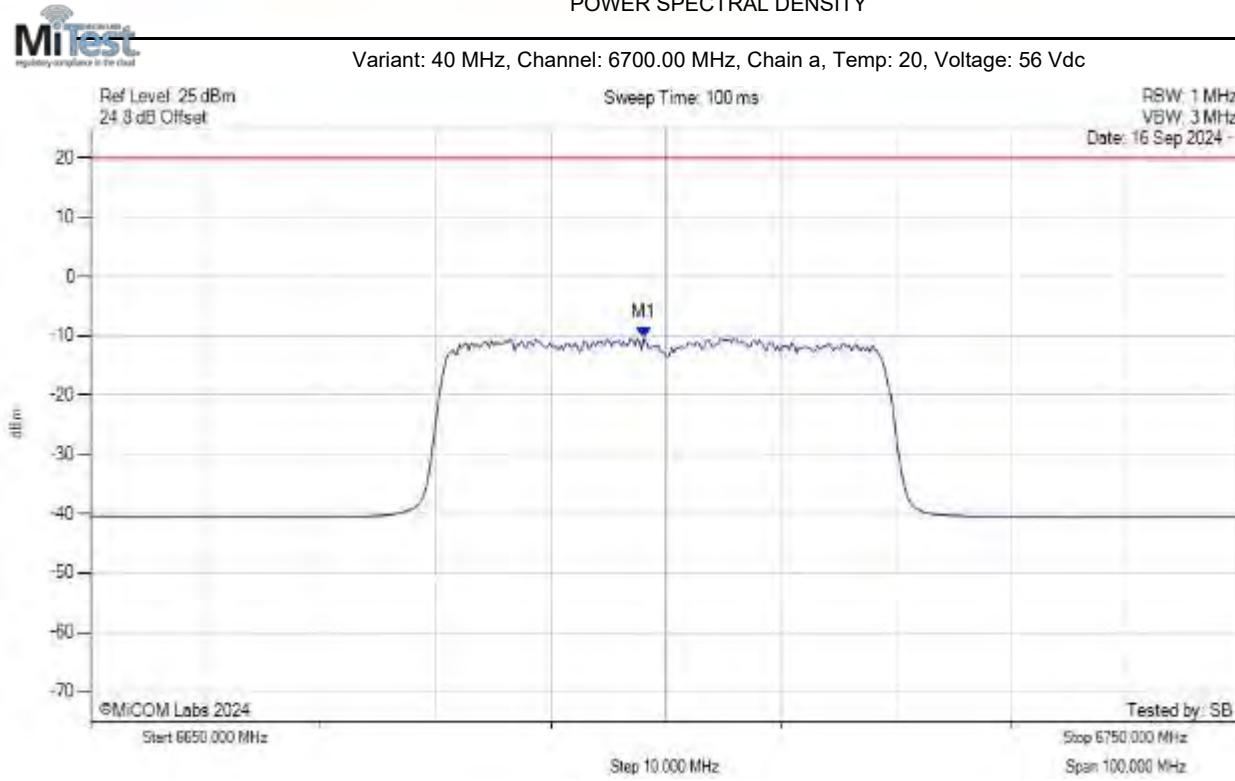
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6549.100 MHz : -10.269 dBm M1 + DCCF : 6549.100 MHz : -10.225 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -33.2 dB

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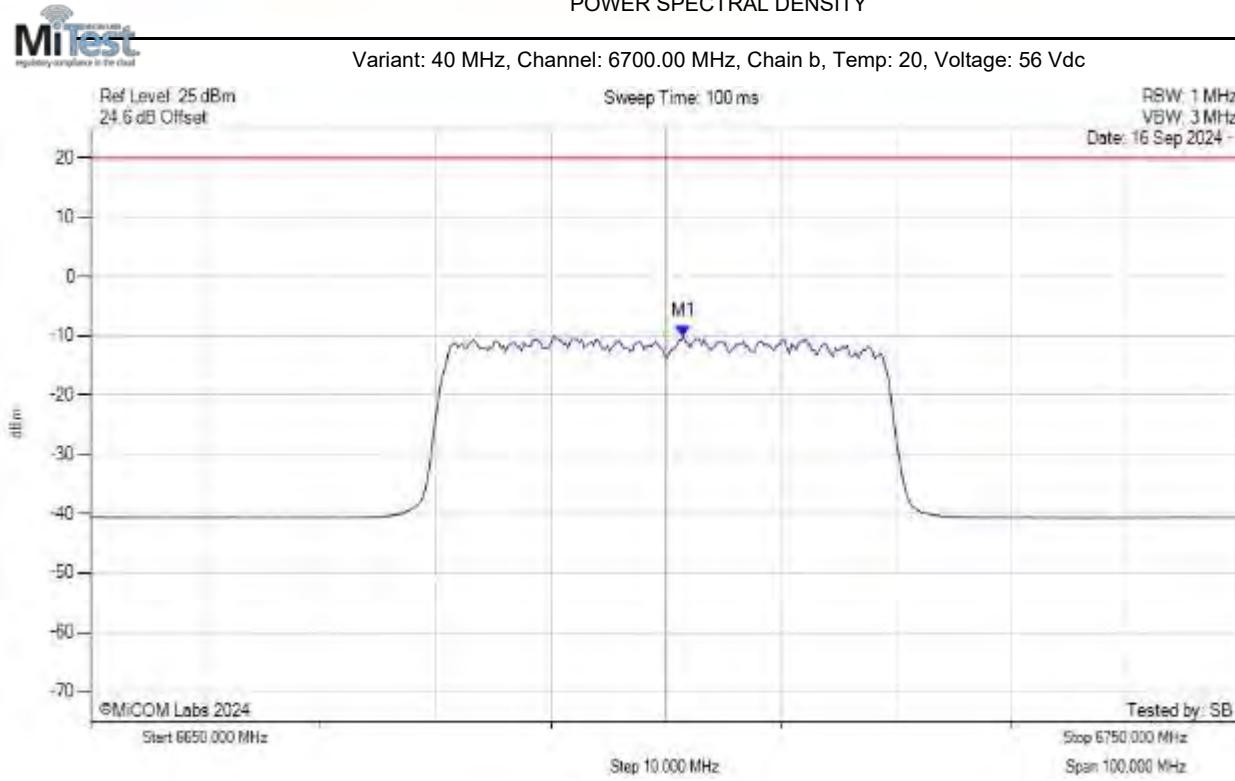
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6698.096 MHz : -10.336 dBm	Limit: ≤ 19.990 dBm

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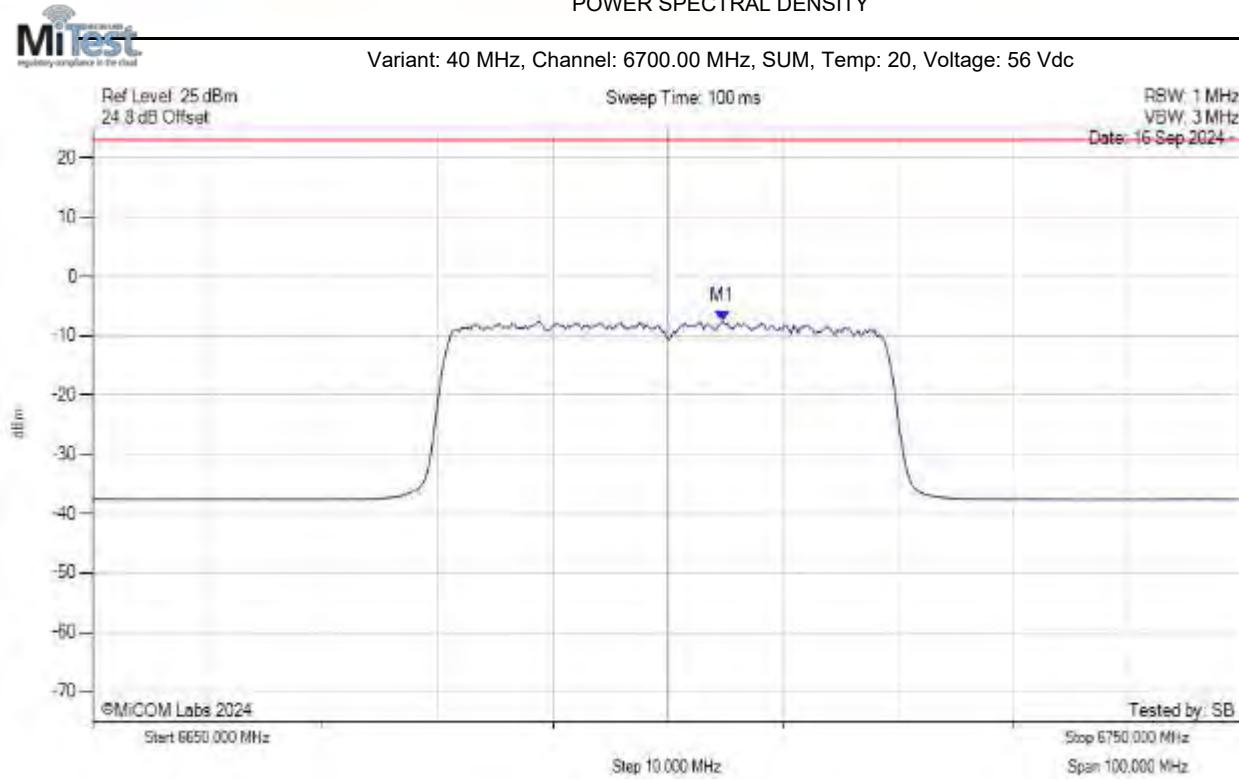
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6701.503 MHz : -10.042 dBm	Channel Frequency: 6700.00 MHz

[back to matrix](#)

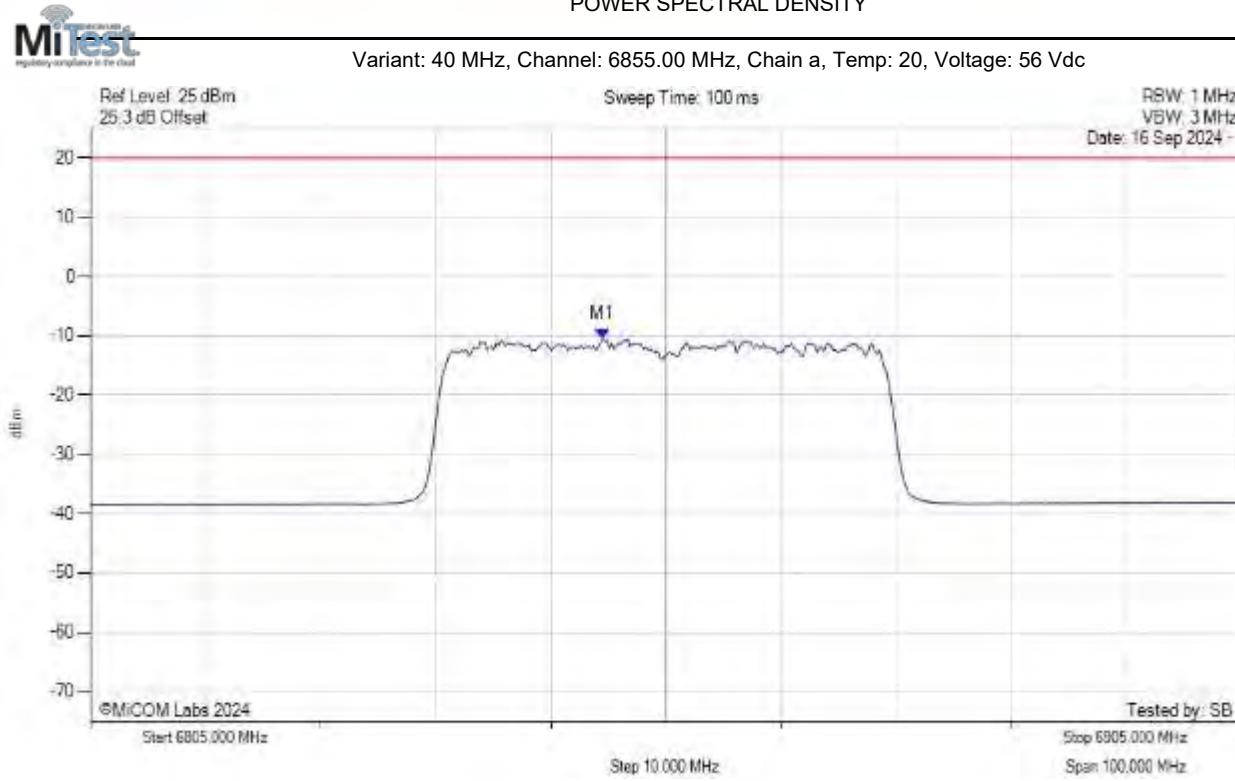
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6704.700 MHz : -7.581 dBm M1 + DCCF : 6704.700 MHz : -7.537 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.5 dB

[back to matrix](#)

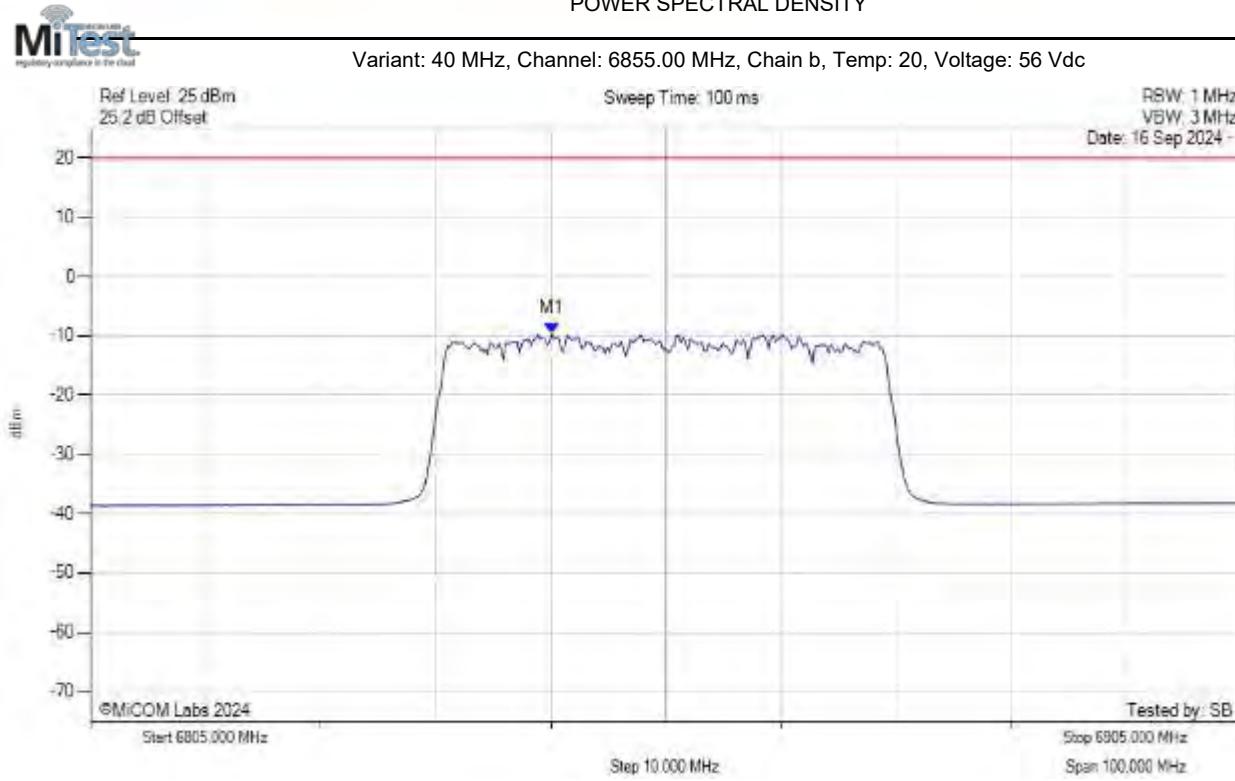
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6849.489 MHz : -10.510 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

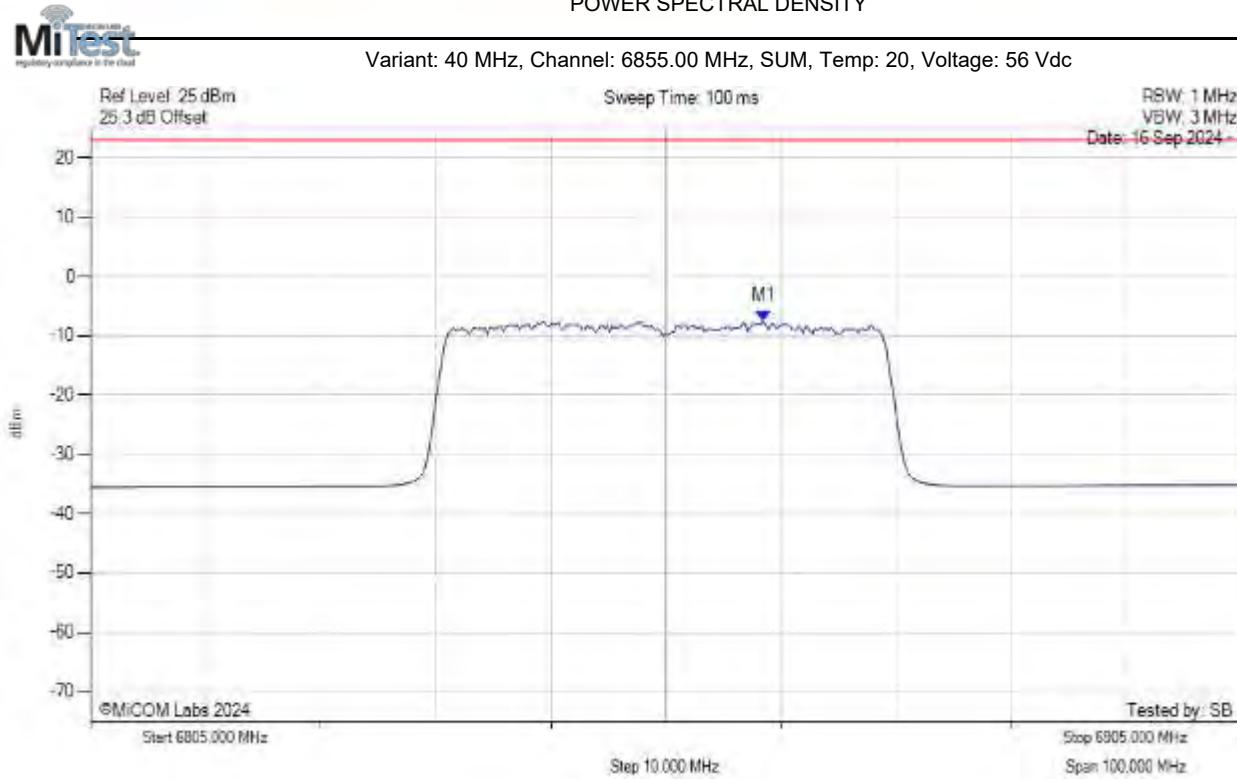
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6845.080 MHz : -9.657 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

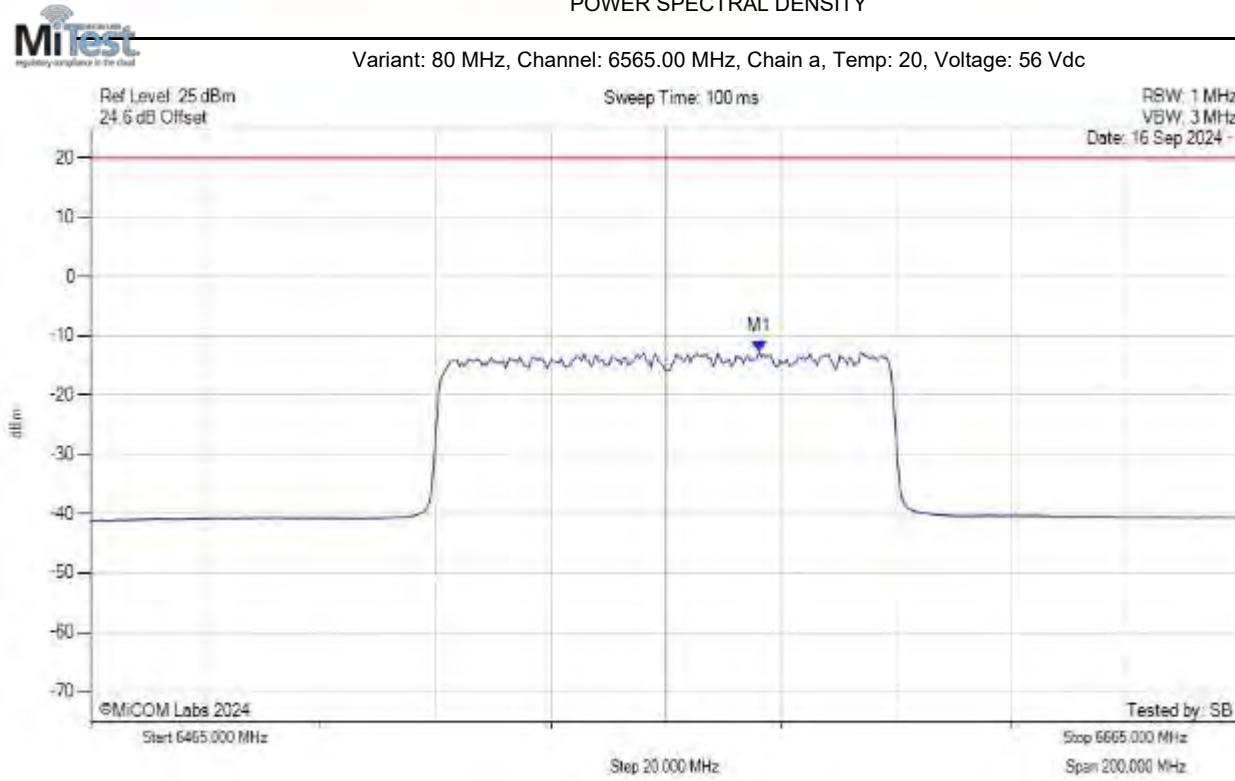
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6863.500 MHz : -7.607 dBm M1 + DCCF : 6863.500 MHz : -7.563 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -30.6 dB

[back to matrix](#)

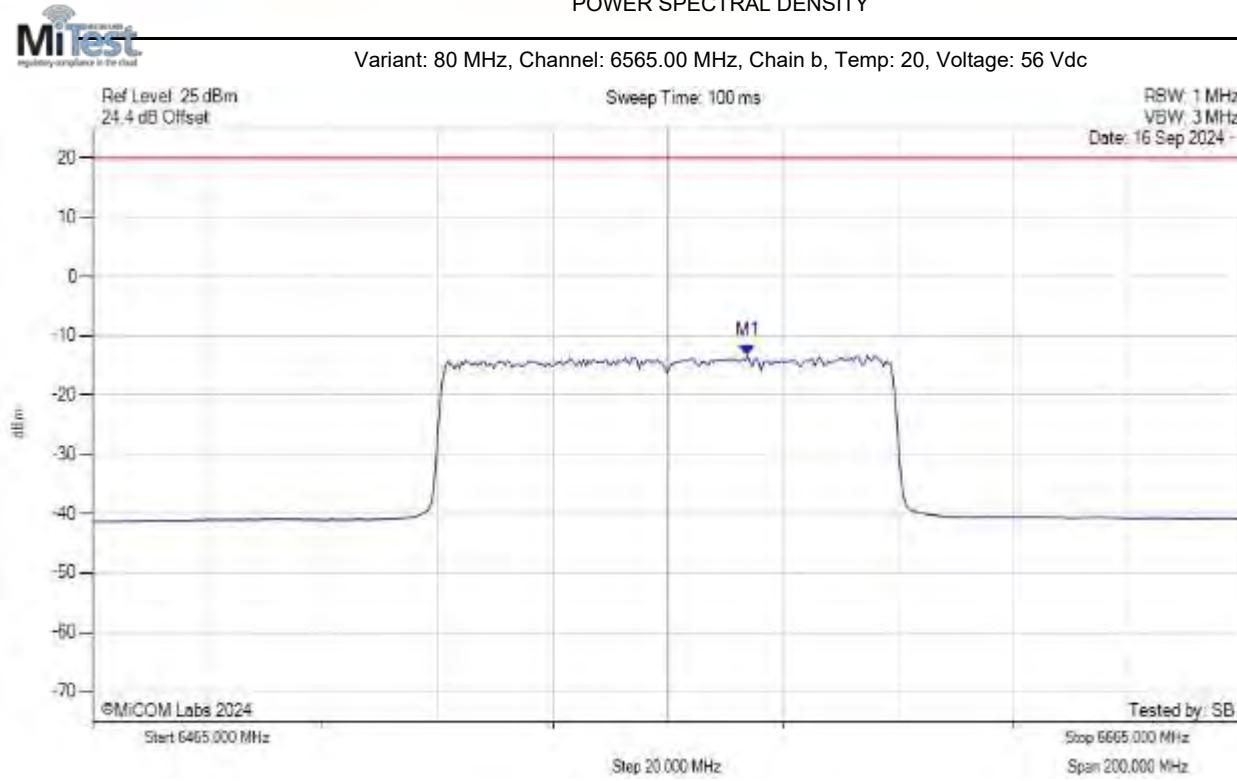
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6581.232 MHz : -12.634 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

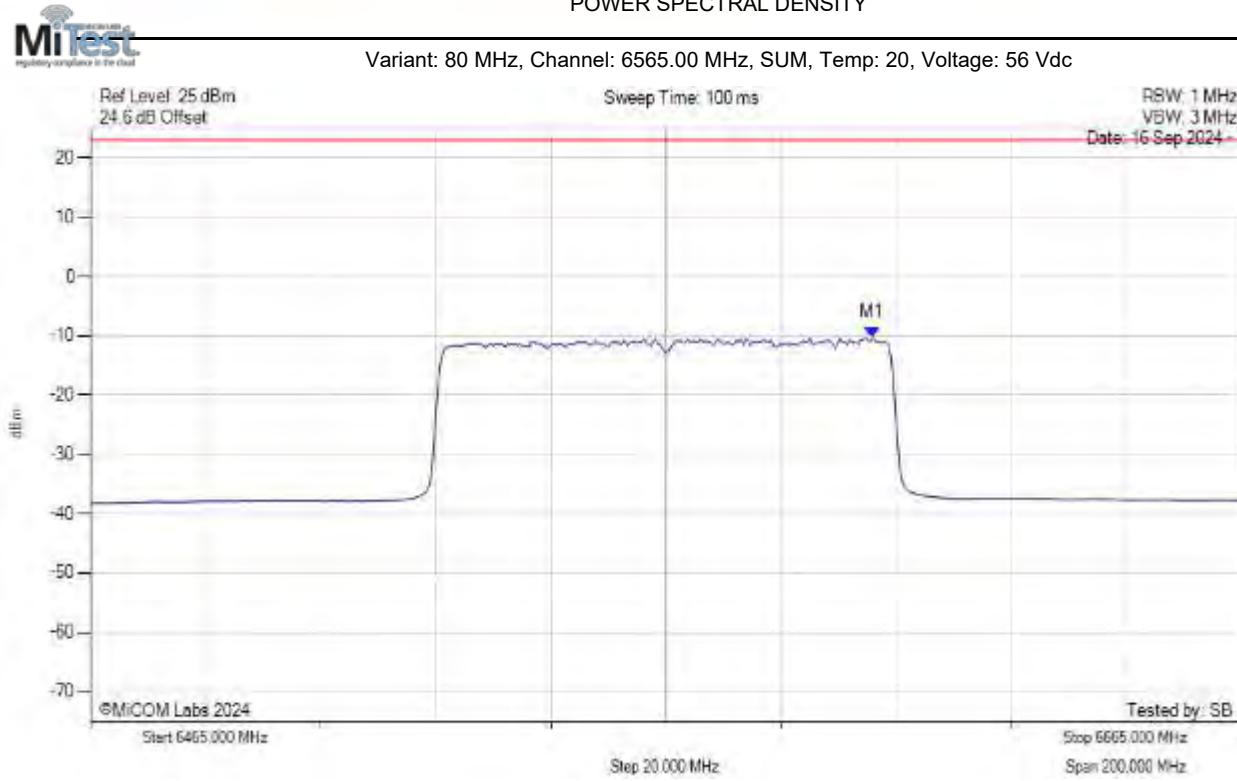
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6578.828 MHz : -13.270 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

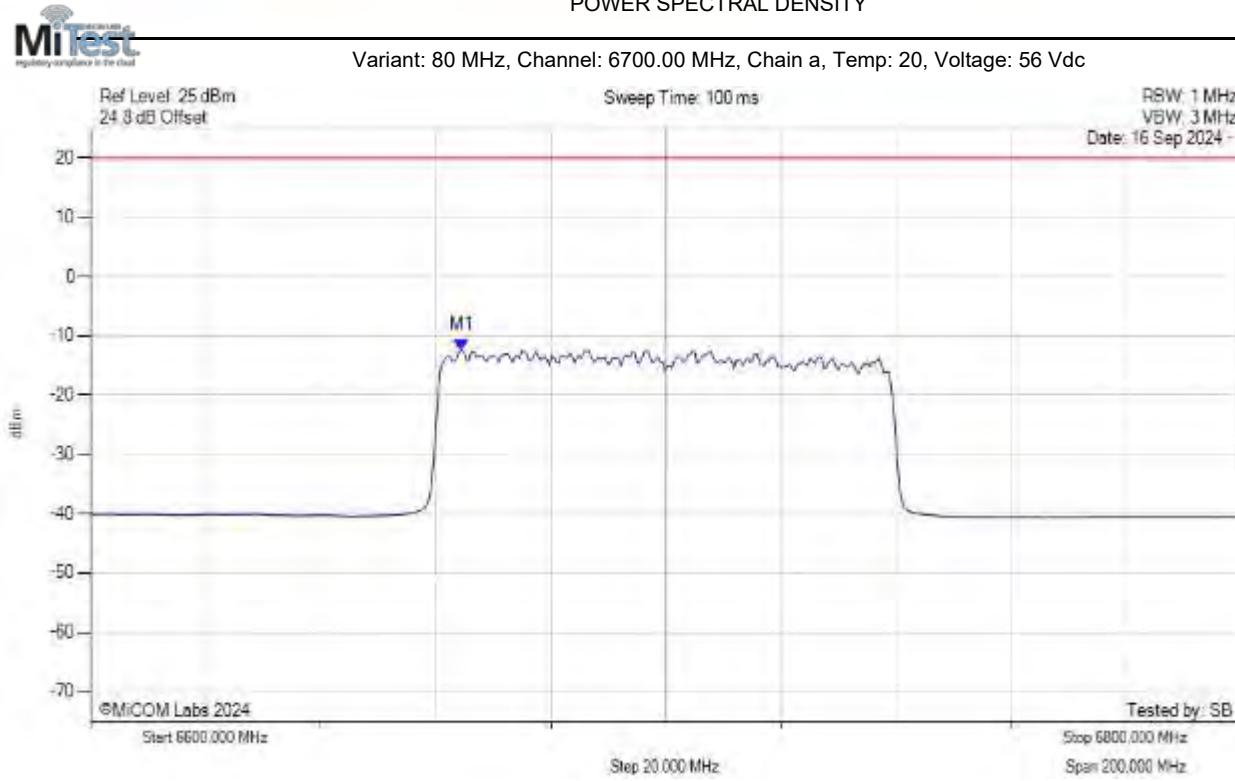
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6600.900 MHz : -10.405 dBm M1 + DCCF : 6600.900 MHz : -10.361 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -33.4 dB

[back to matrix](#)

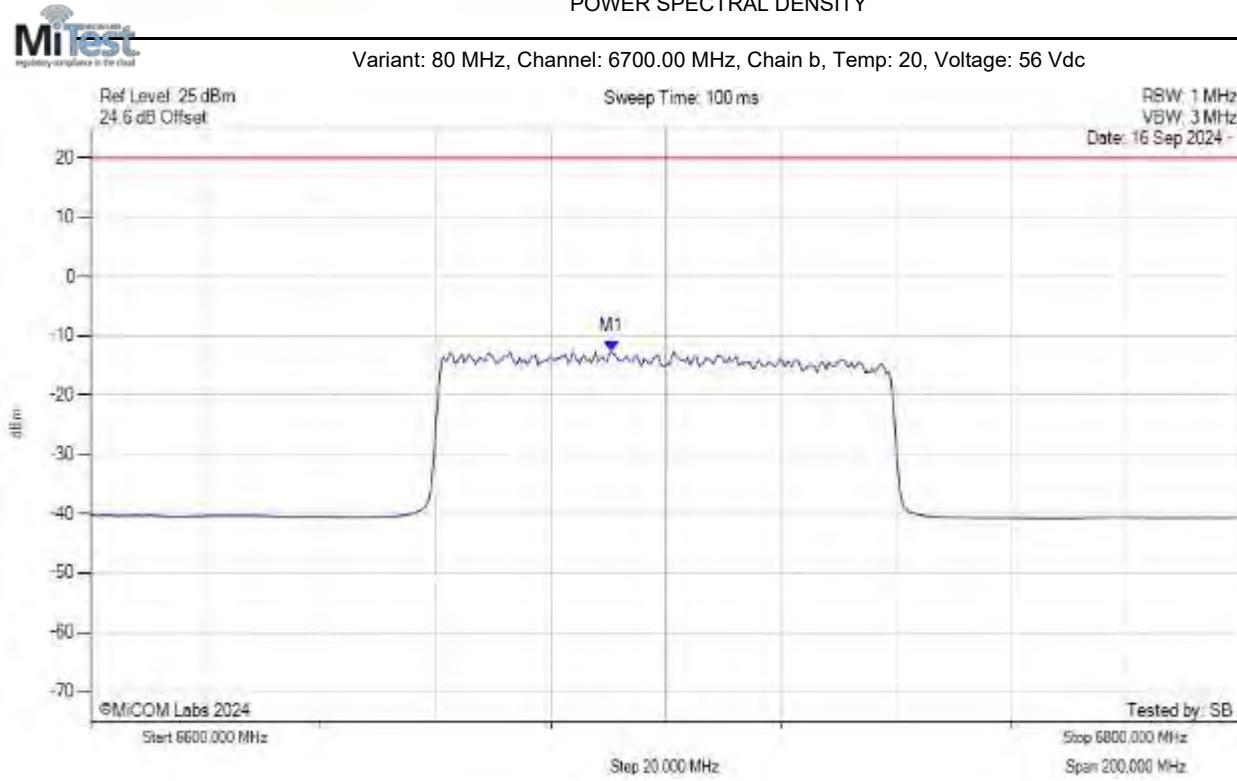
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6664.529 MHz : -12.421 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

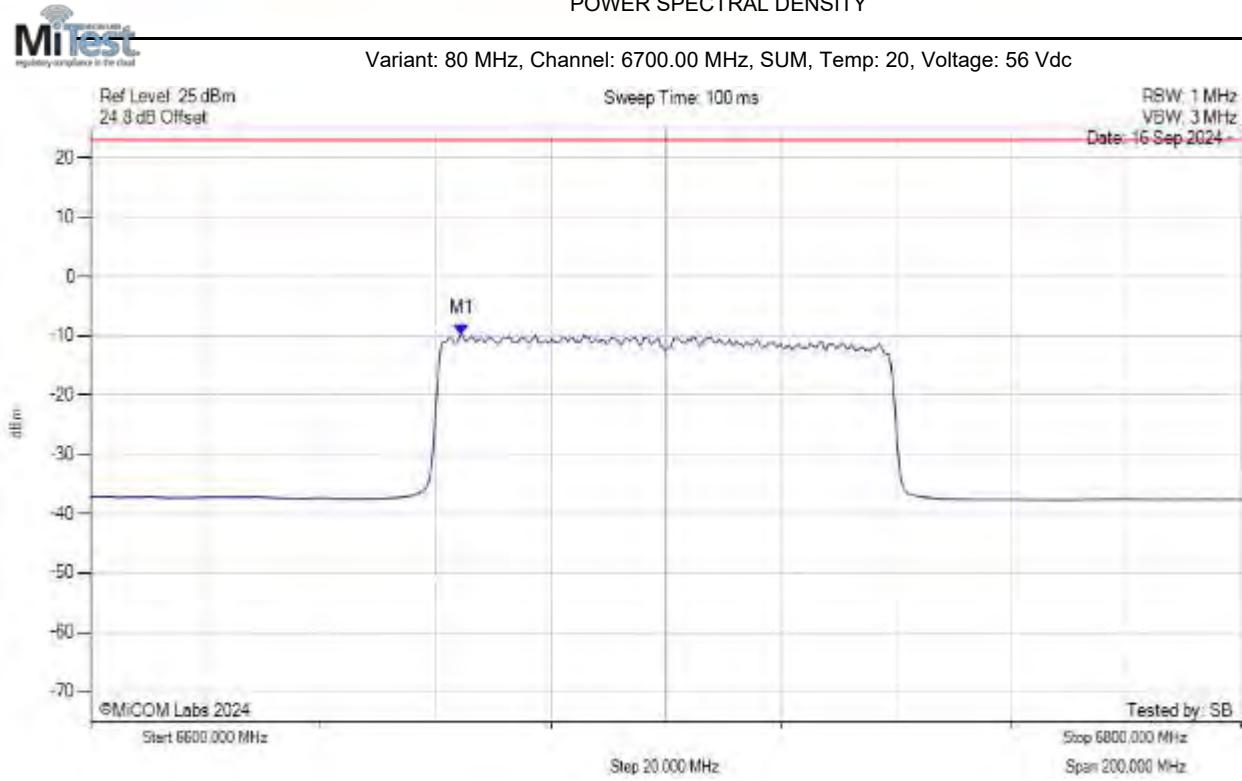
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6690.581 MHz : -12.629 dBm	Channel Frequency: 6700.00 MHz

[back to matrix](#)

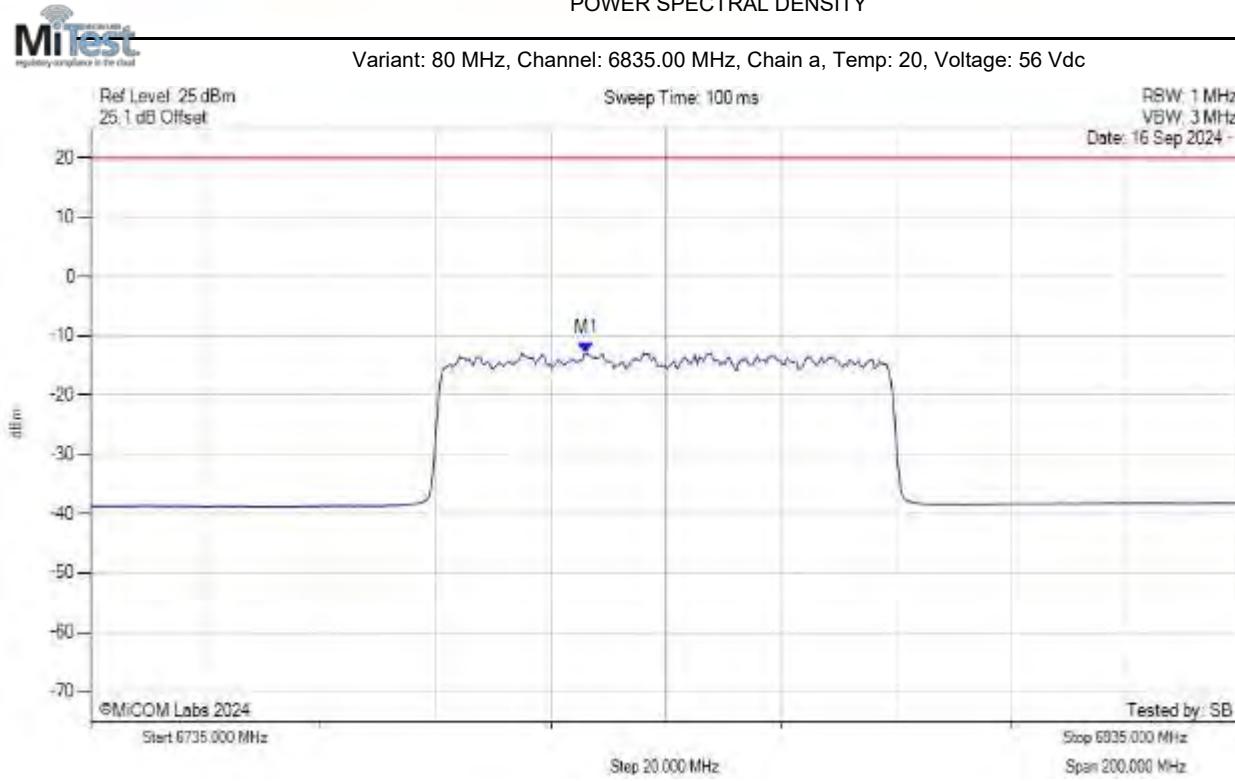
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6664.500 MHz : -9.727 dBm M1 + DCCF : 6664.500 MHz : -9.683 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -32.7 dB

[back to matrix](#)

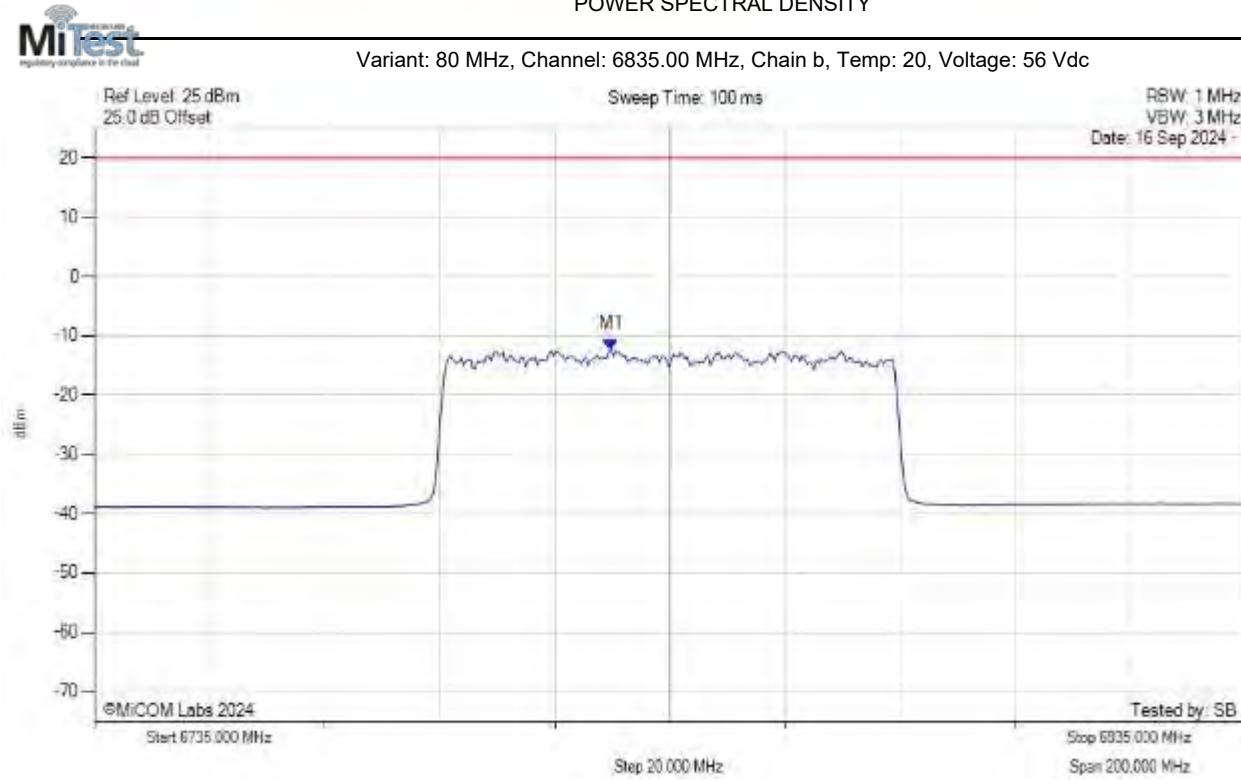
POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6821.172 MHz : -12.838 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

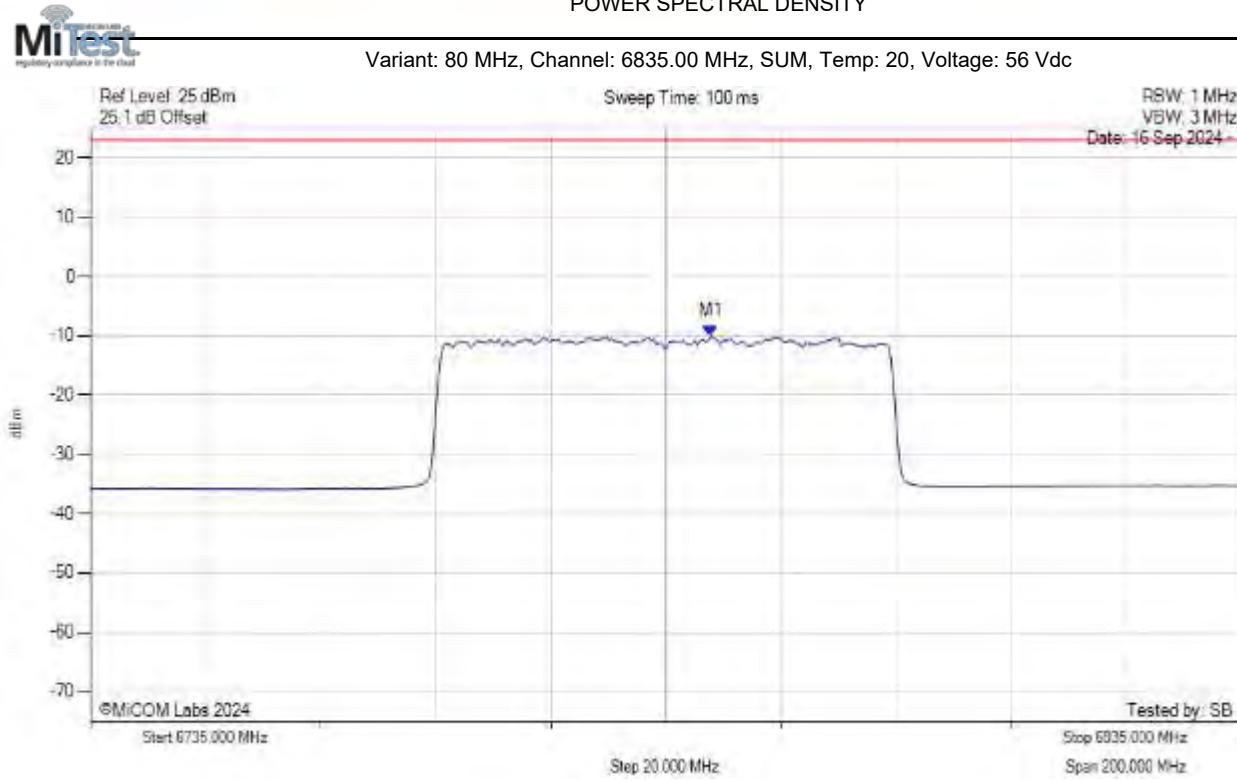
## POWER SPECTRAL DENSITY



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6824.780 MHz : -12.294 dBm	Limit: ≤ 19.990 dBm

[back to matrix](#)

POWER SPECTRAL DENSITY

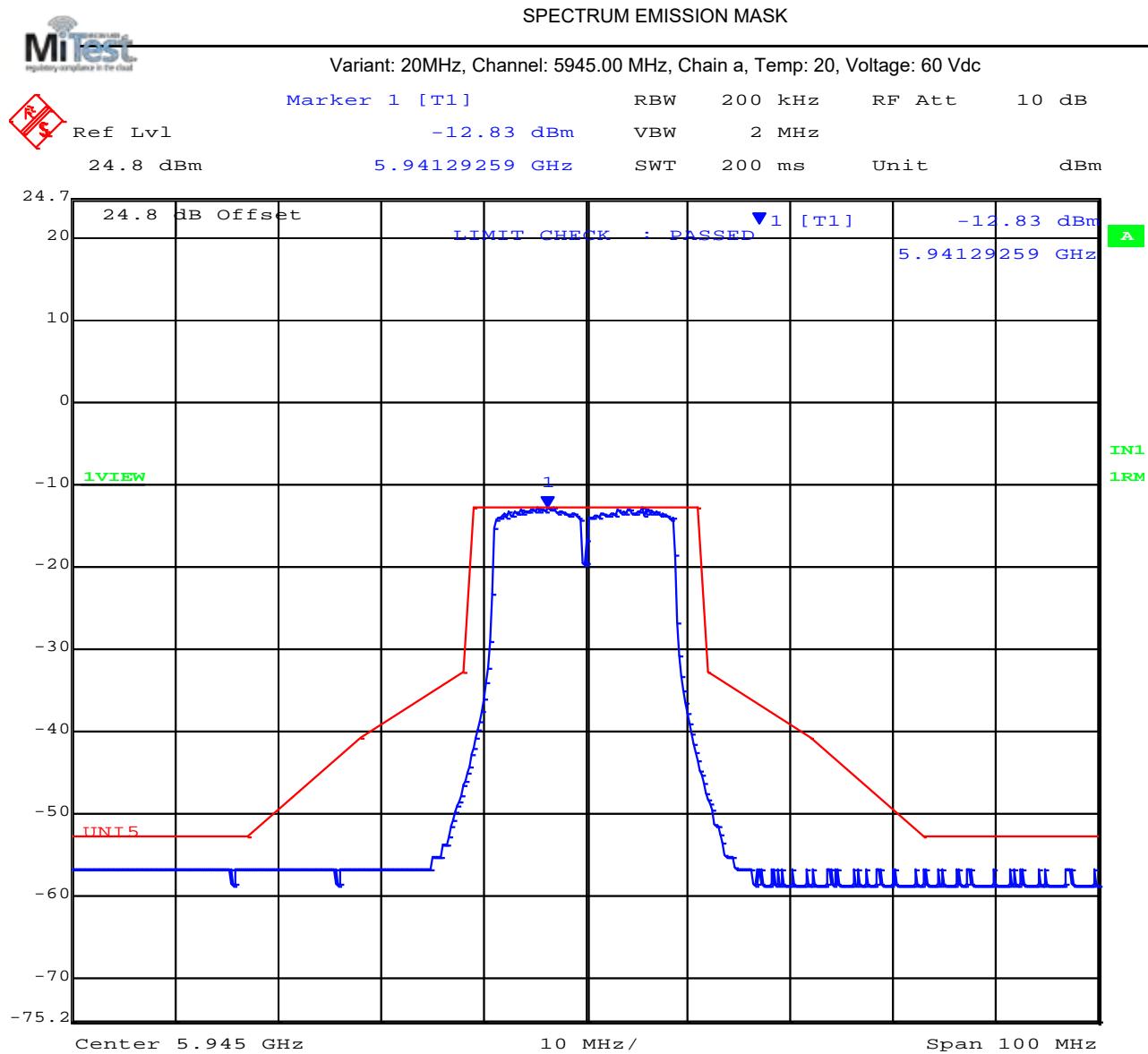


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 6842.800 MHz : -10.065 dBm M1 + DCCF : 6842.800 MHz : -10.021 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 23.0 dBm Margin: -33.0 dB

[back to matrix](#)

### A.3. Spectrum Emission Mask

### A.3.1. 5925.00-6425.00



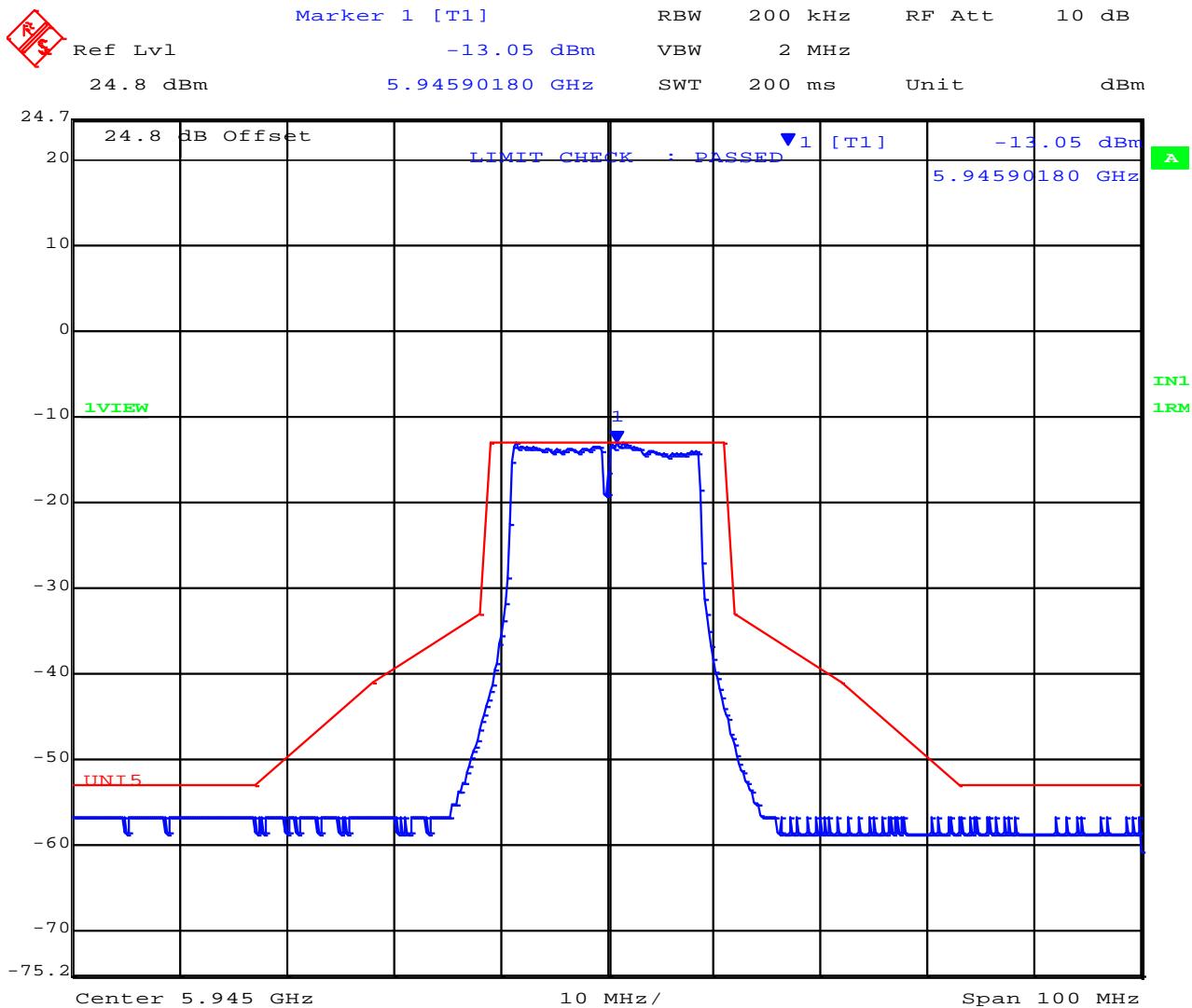
Date: 18.SEP.2024 08:36:37

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 5945.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



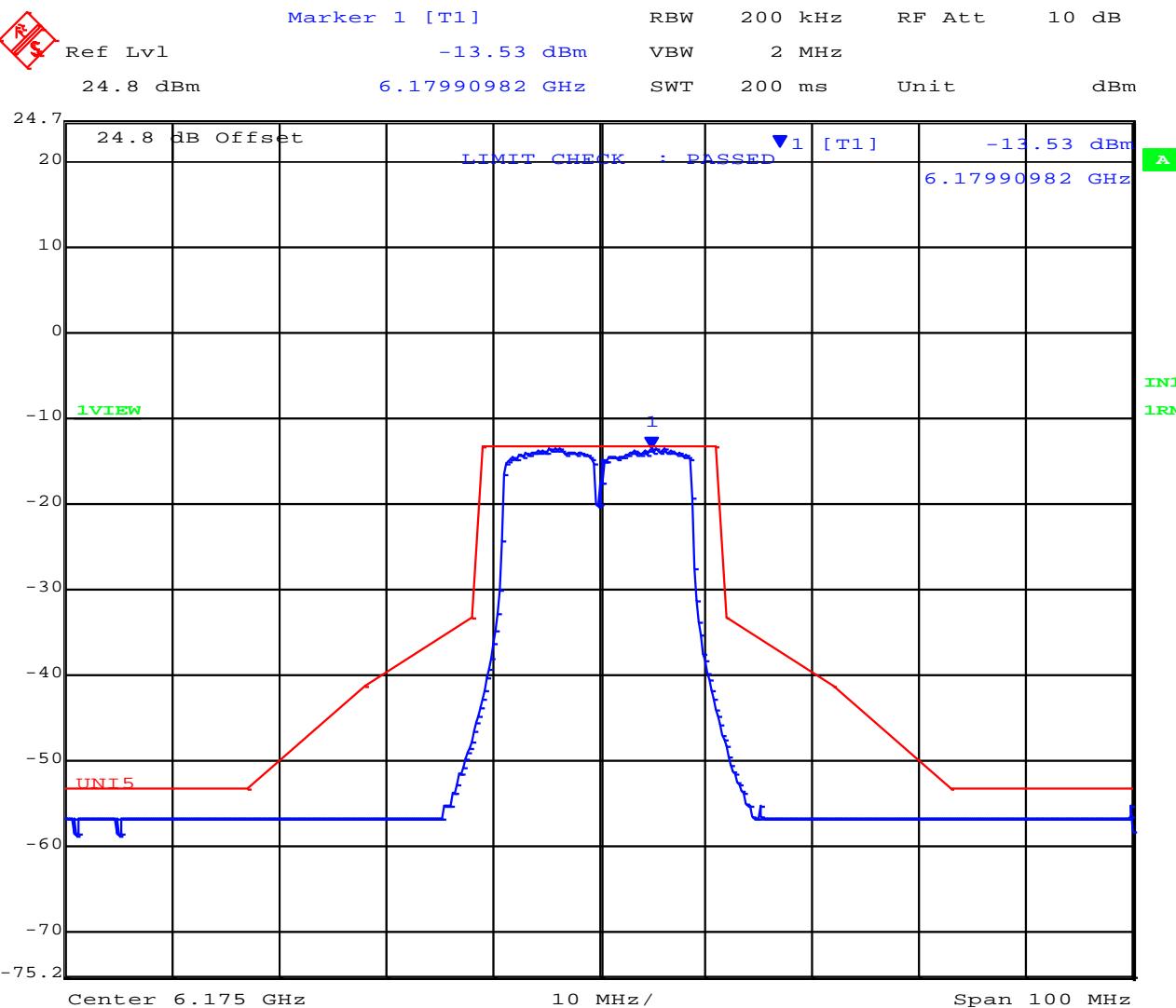
Date: 18.SEP.2024 08:37:15

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 6175.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



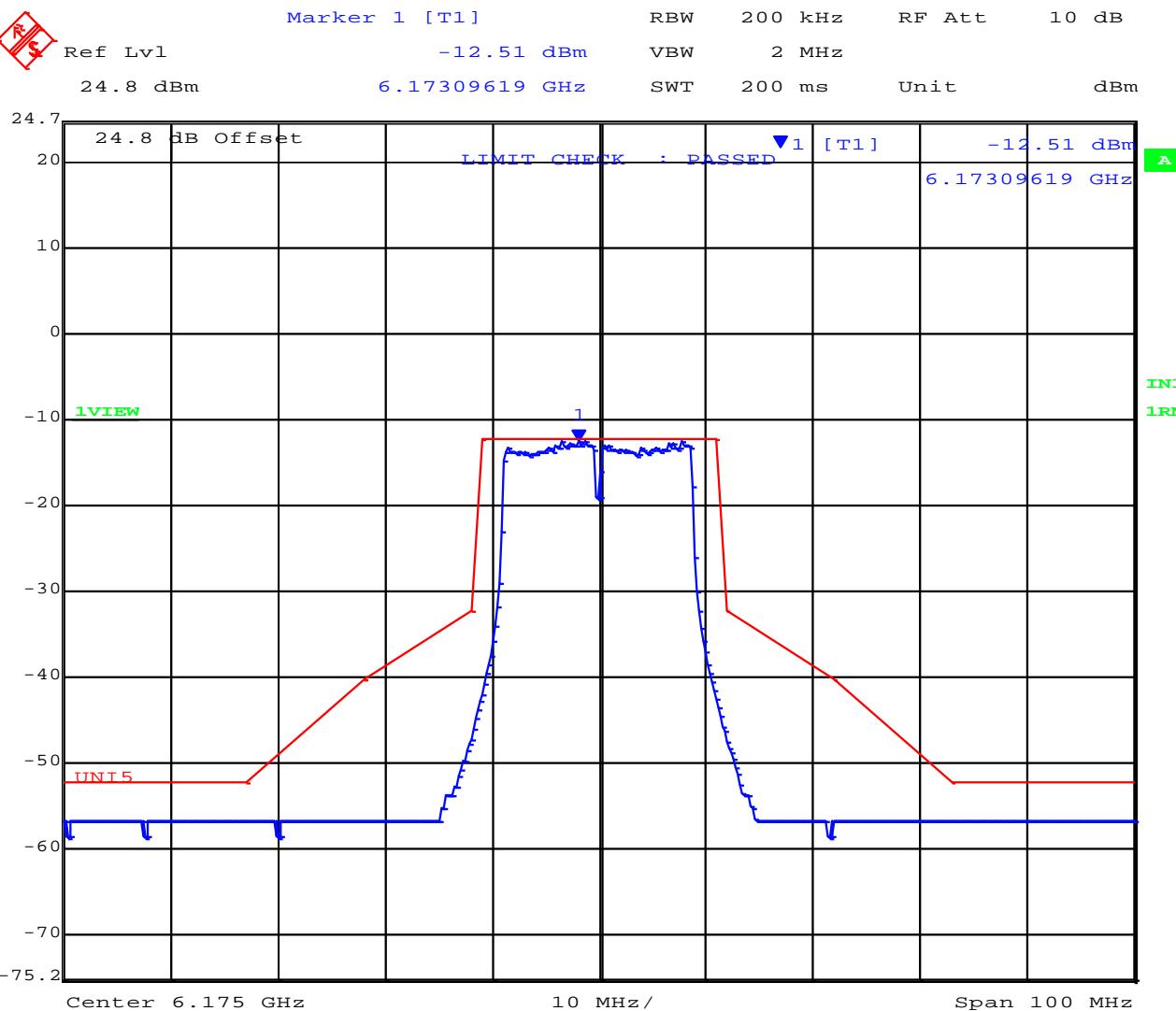
Date: 18.SEP.2024 08:39:40

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 6175.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



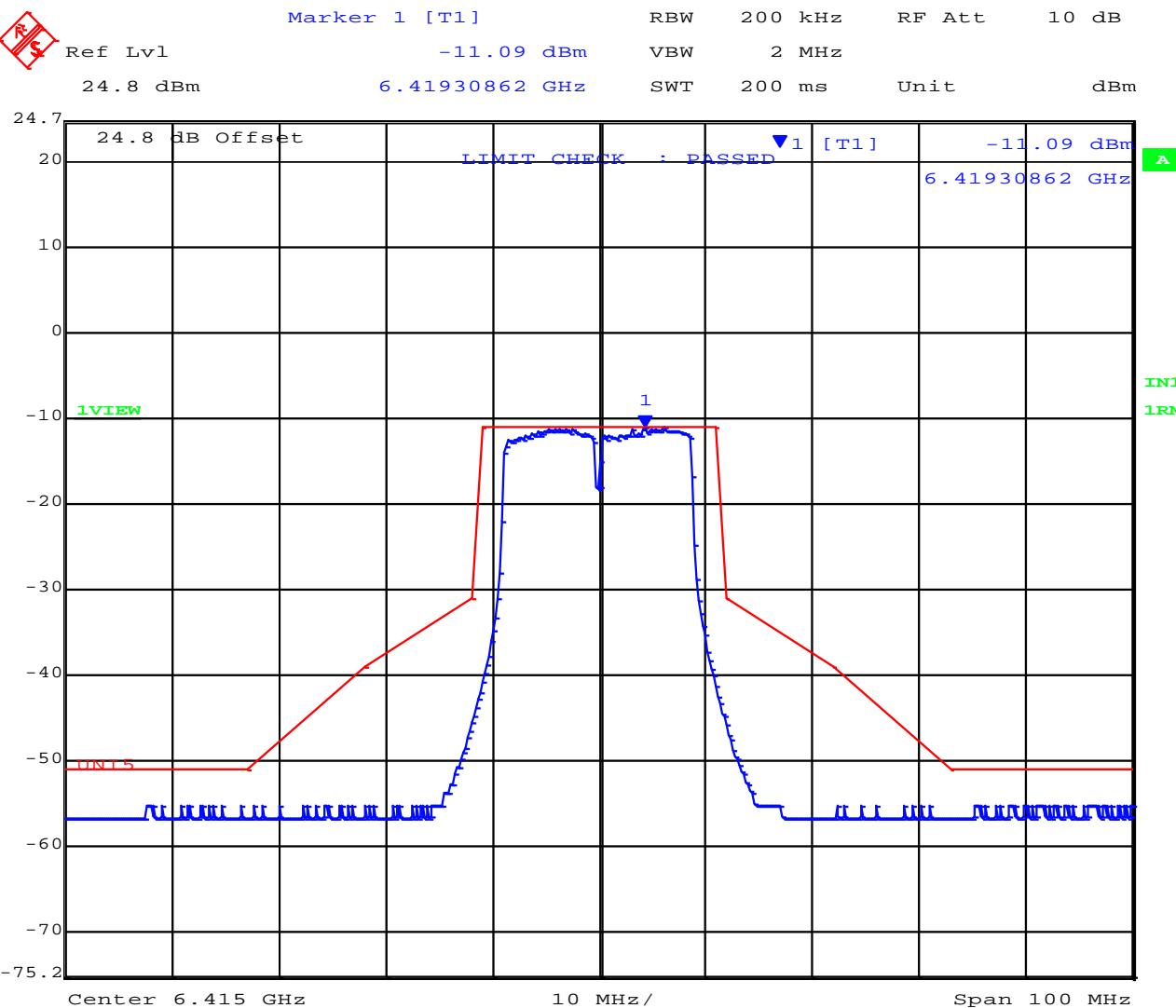
Date: 18.SEP.2024 08:39:01

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 6415.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



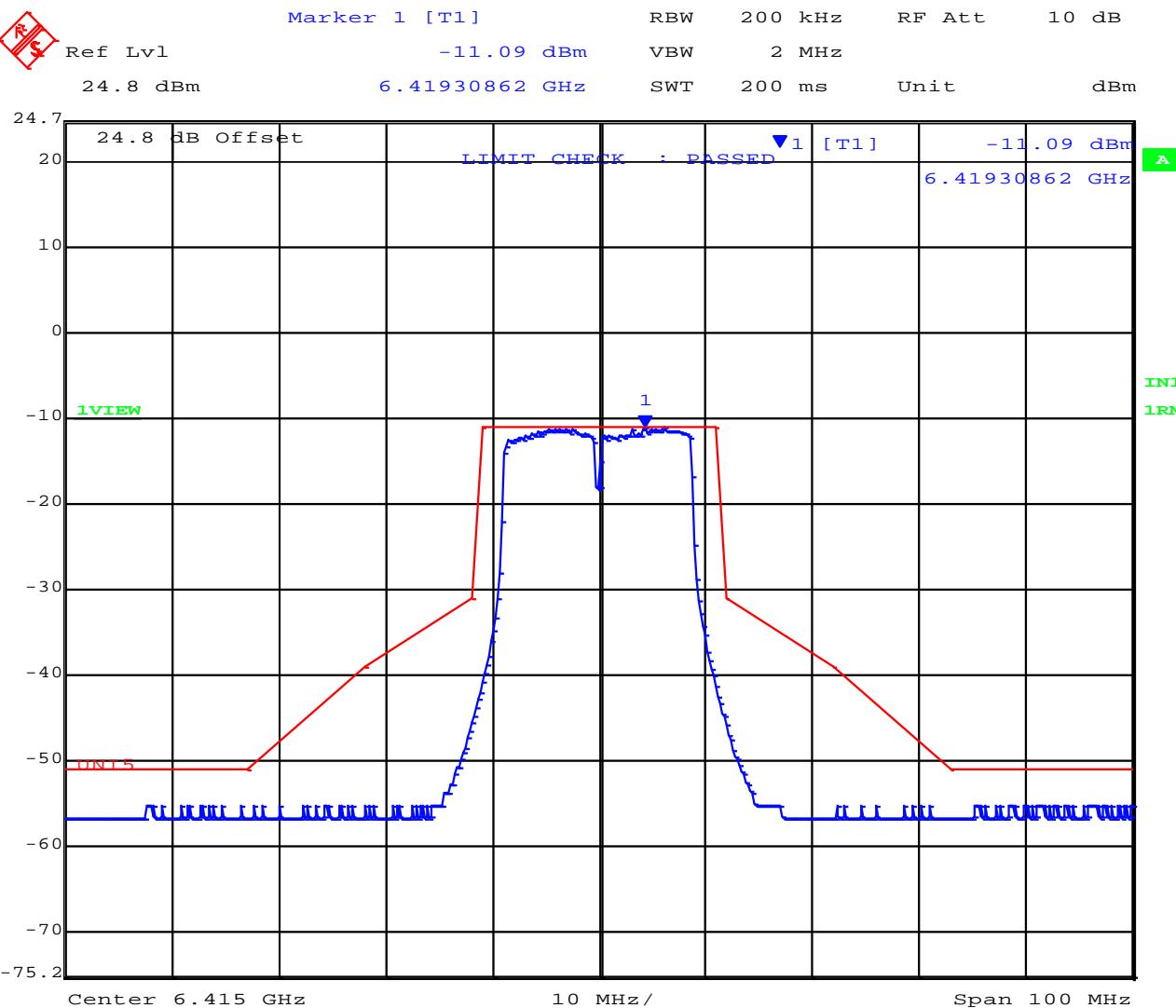
Date: 18.SEP.2024 08:41:10

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 6415.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



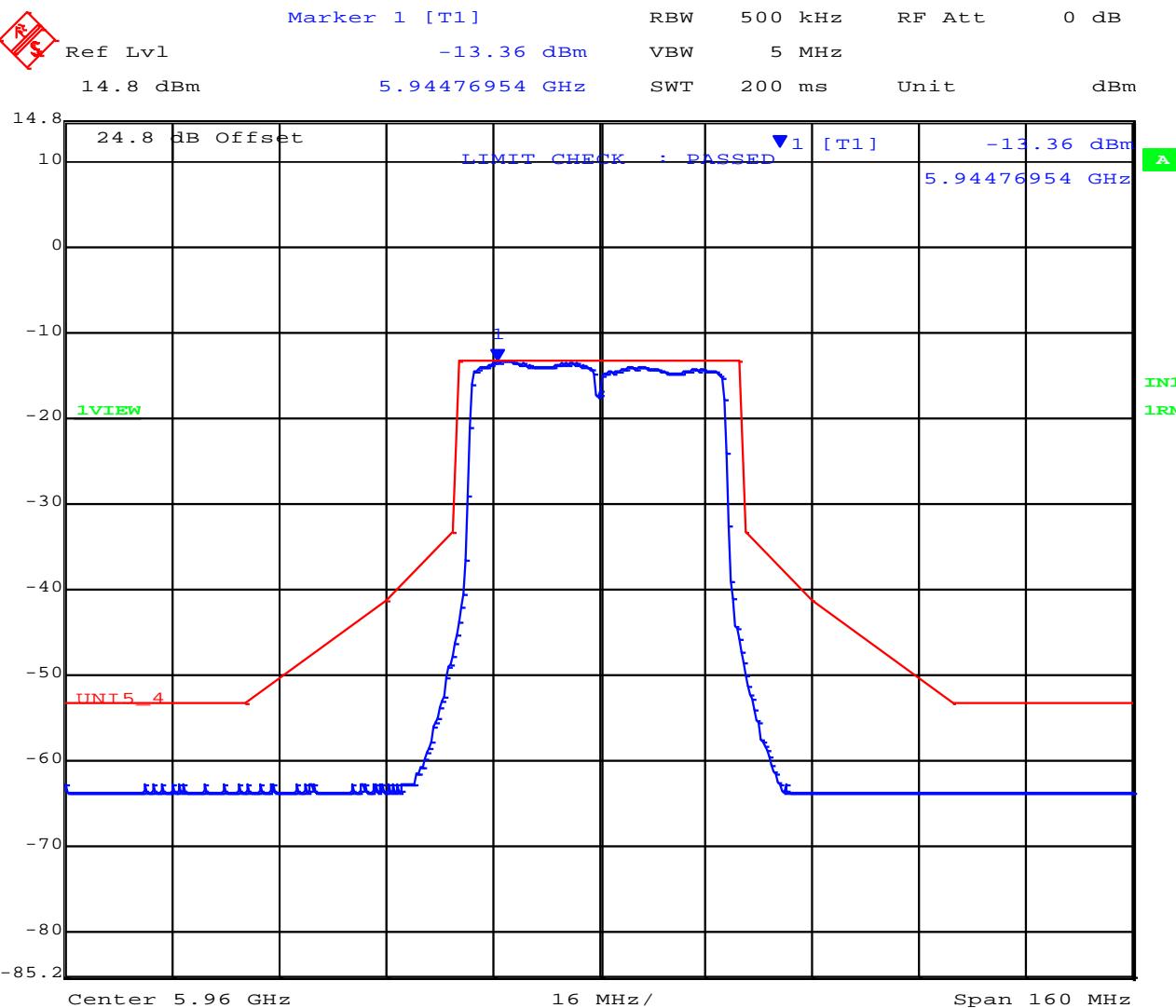
Date: 18.SEP.2024 08:41:38

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 5960.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



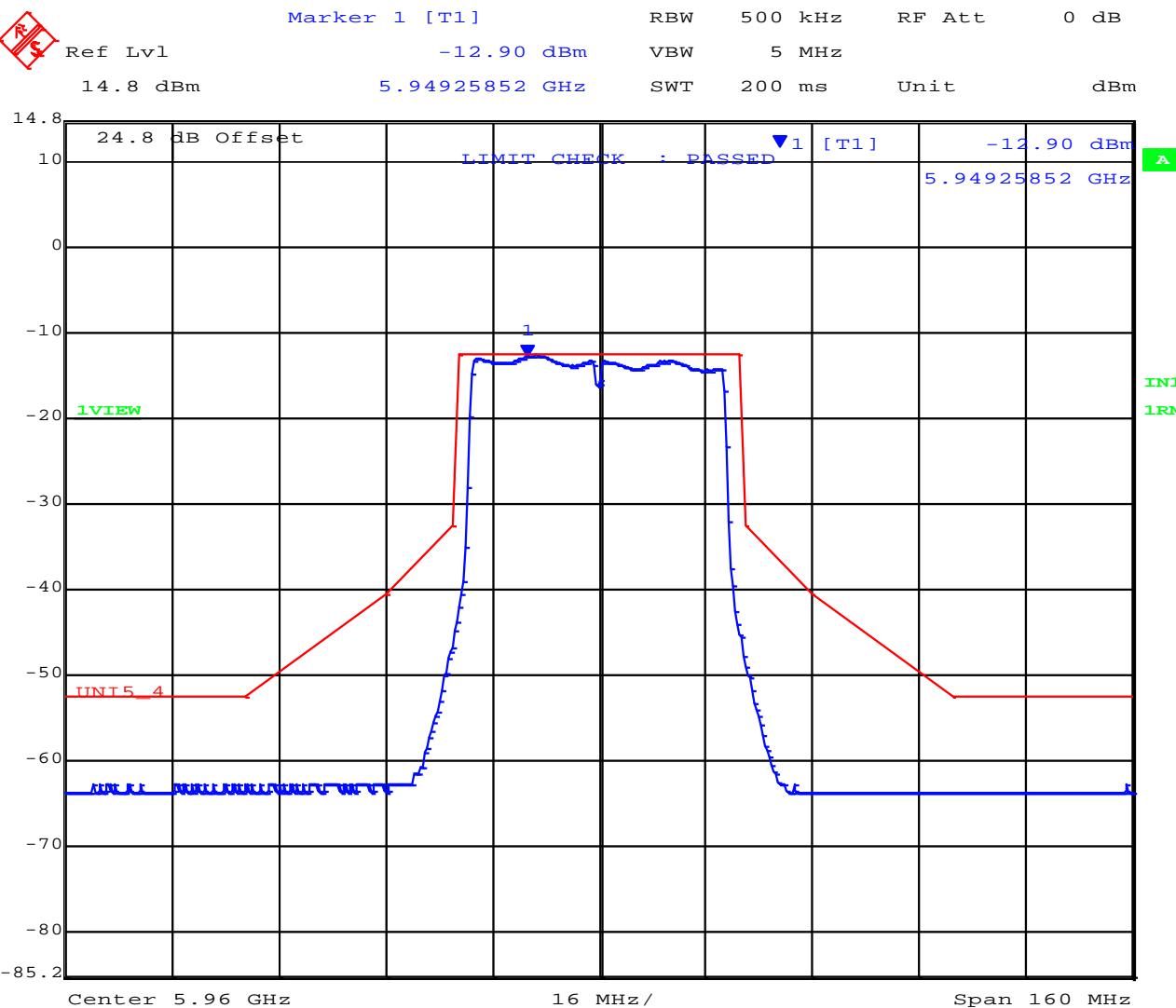
Date: 18.SEP.2024 09:00:58

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SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 5960.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



Date: 18.SEP.2024 09:00:16

[back to matrix](#)

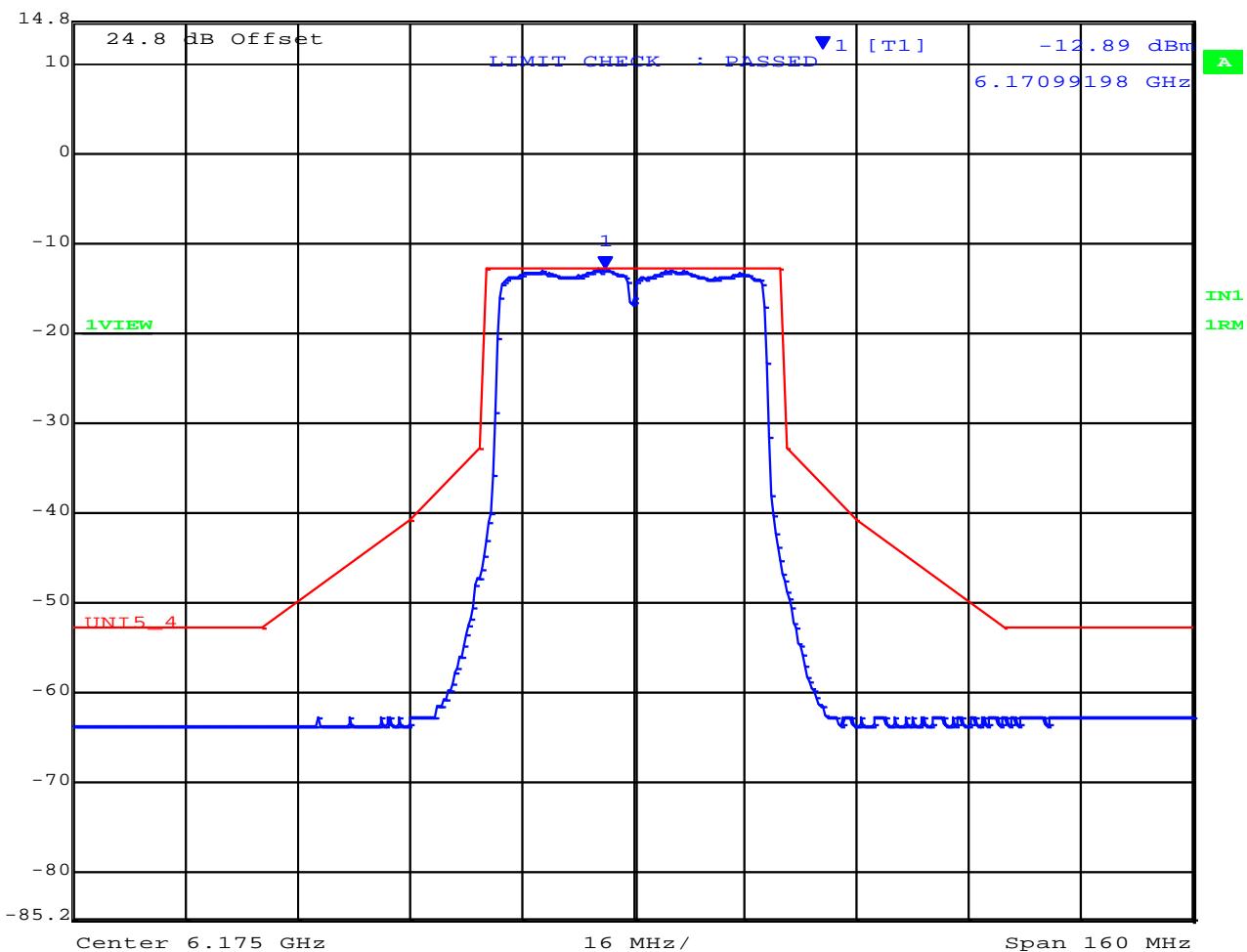
## SPECTRUM EMISSION MASK



MiTest  
regulatory compliance in the cloud

Variant: 40MHz, Channel: 6175.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc

Marker 1 [T1]	RBW	500 kHz	RF Att	0 dB
-12.89 dBm	VBW	5 MHz		
6.170999198 GHz	SWT	200 ms	Unit	dBm



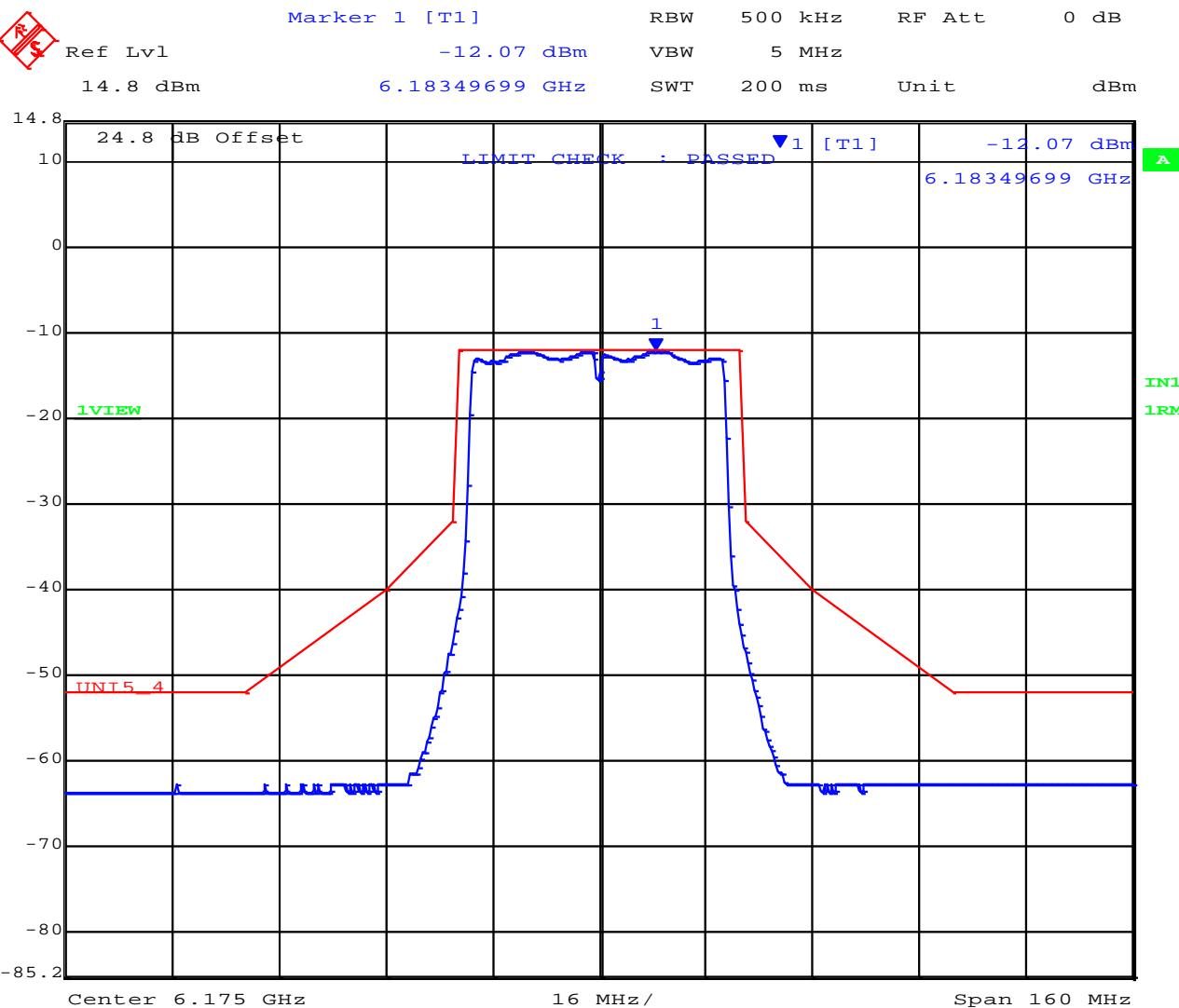
Date: 18.SEP.2024 09:21:01

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6175.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



Date: 18.SEP.2024 09:22:06

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6405.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



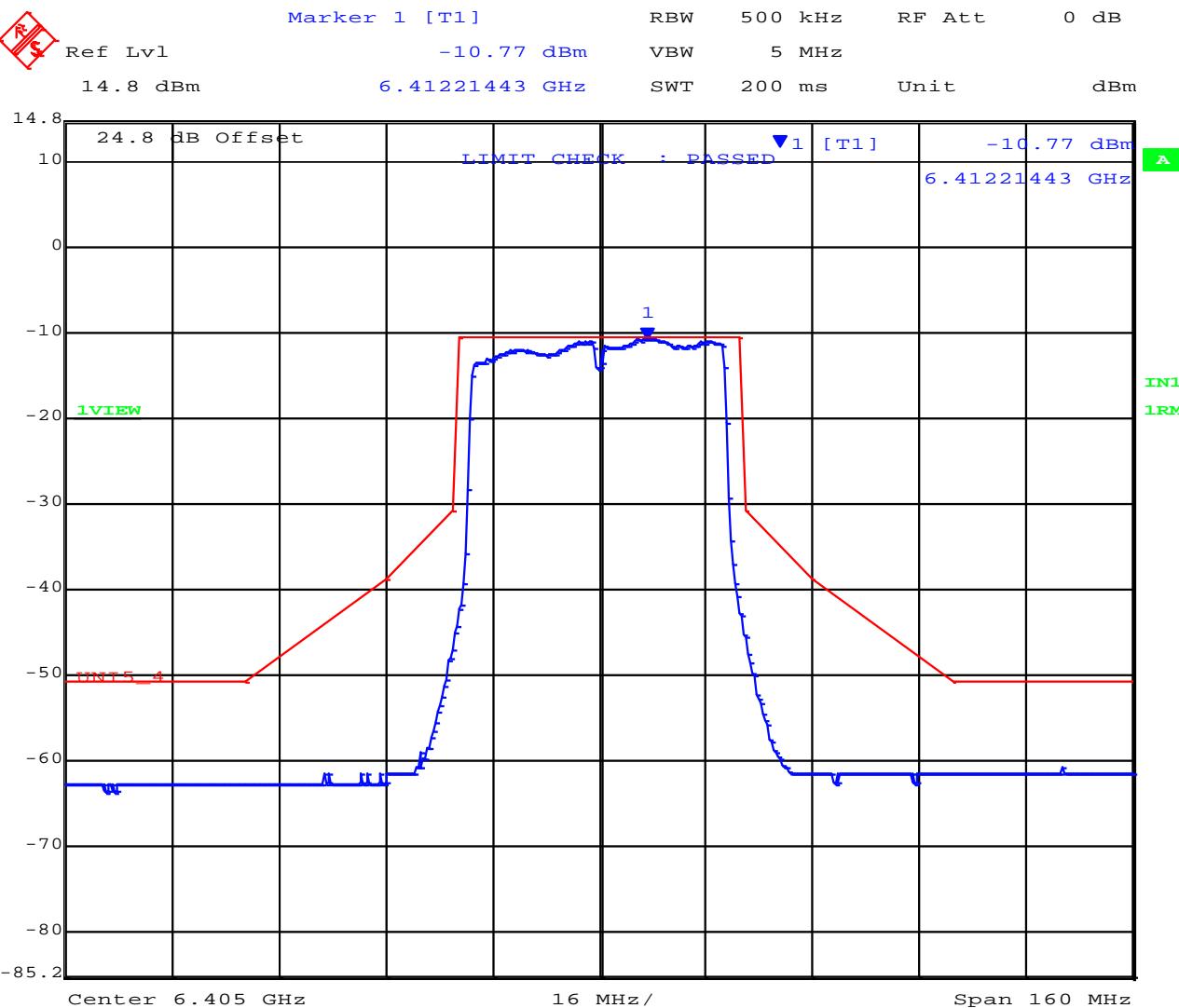
Date: 18.SEP.2024 09:42:09

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6405.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



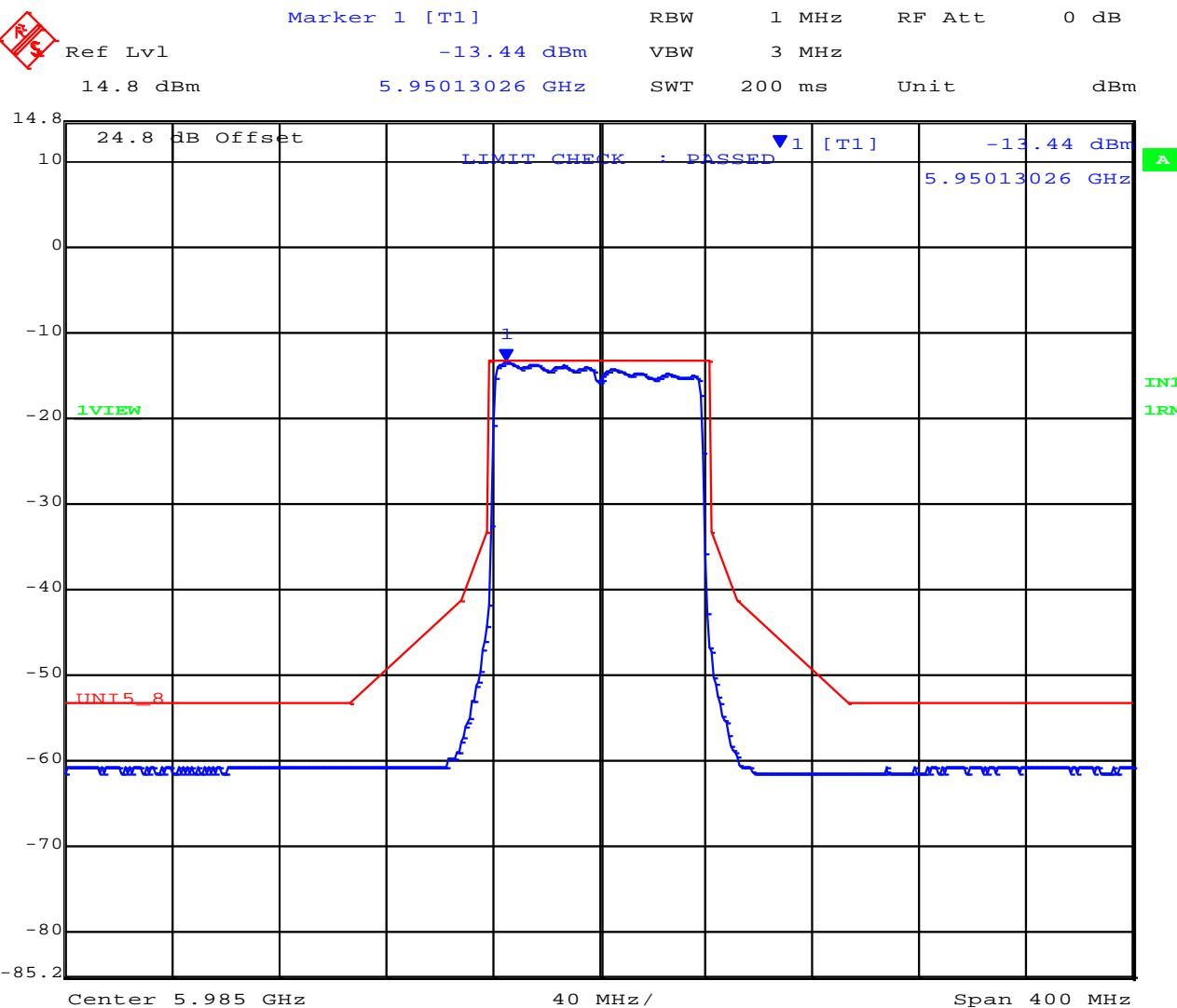
Date: 18.SEP.2024 09:40:41

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 5985.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



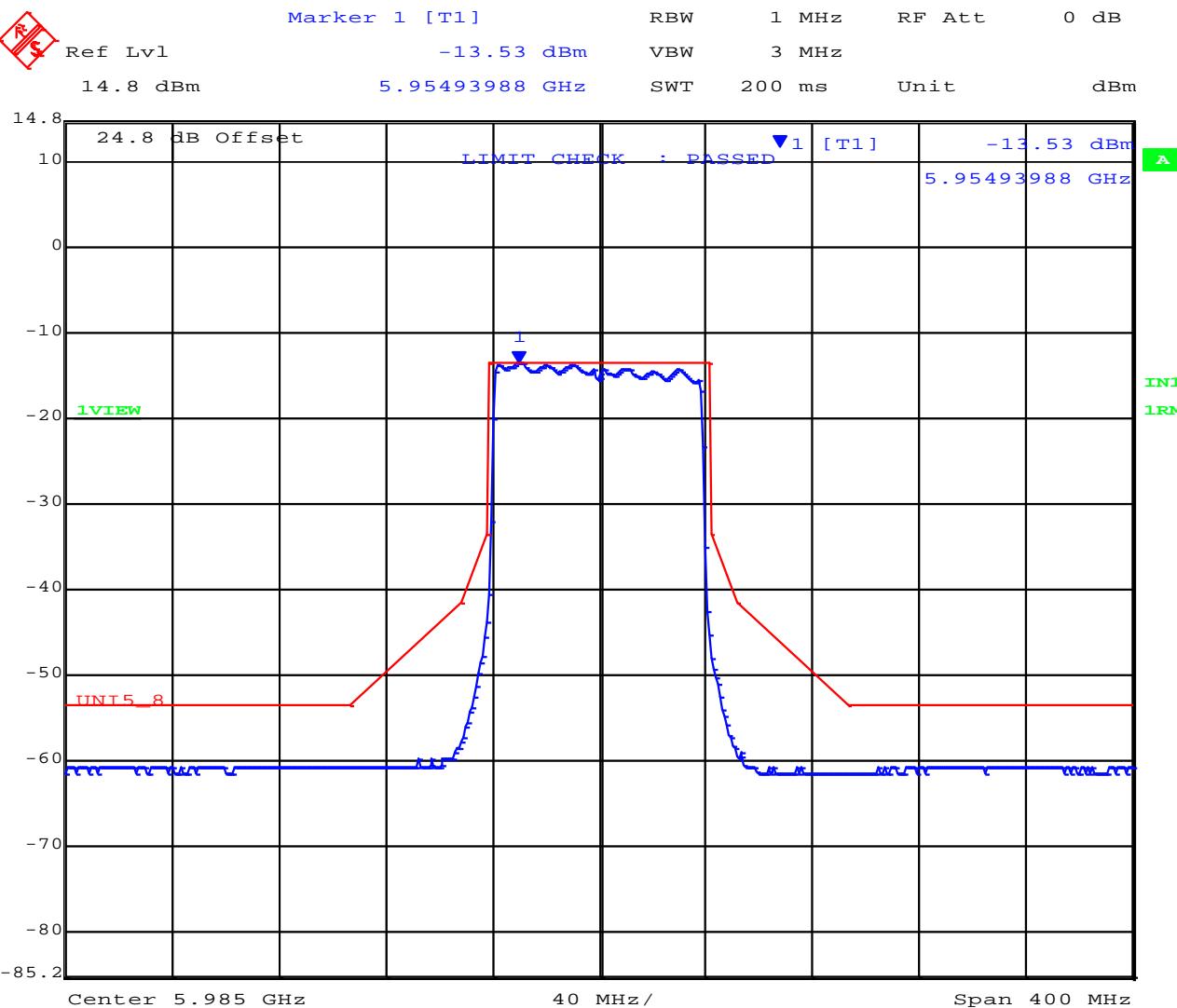
Date: 18.SEP.2024 09:47:33

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 5985.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



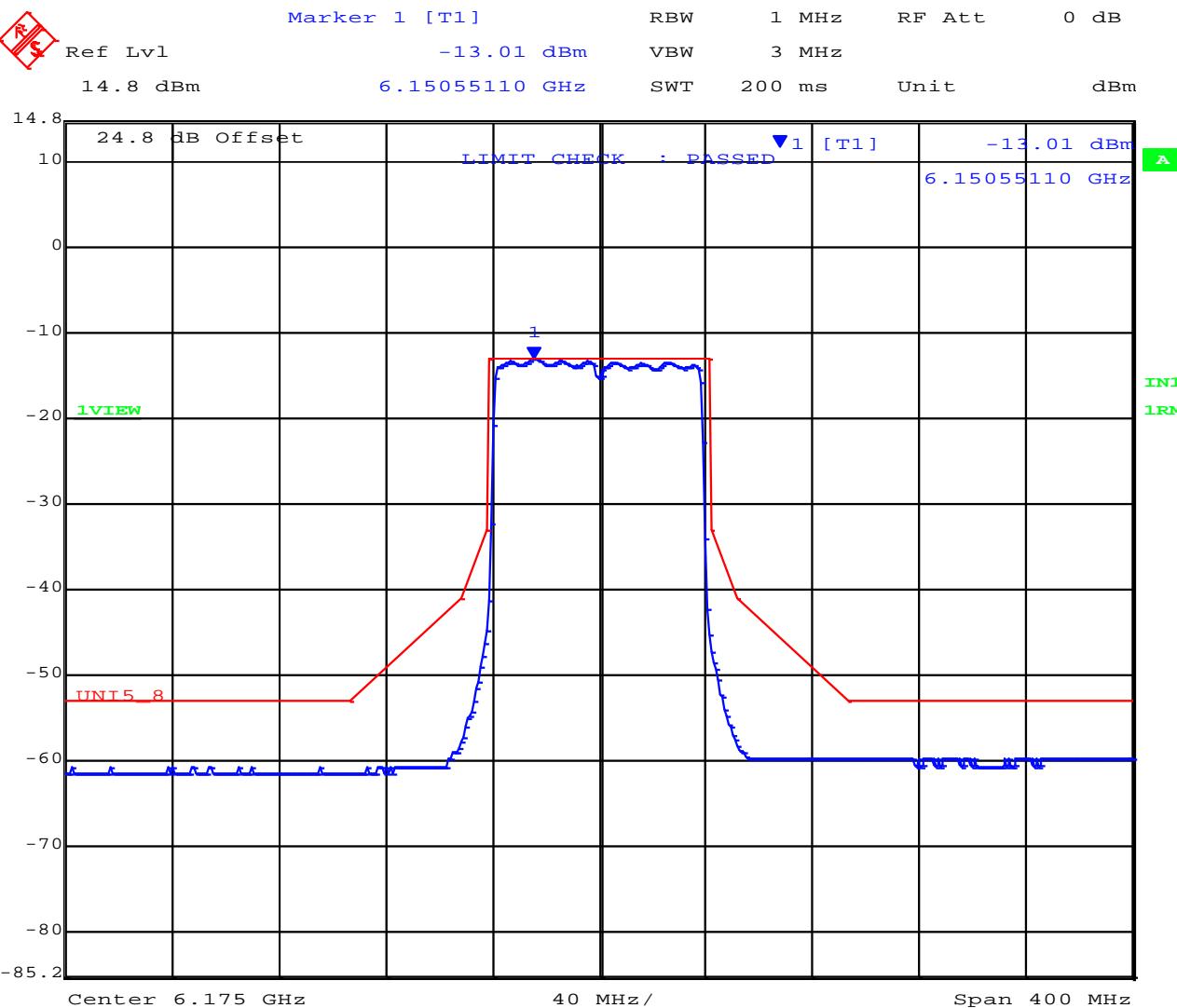
Date: 18.SEP.2024 09:46:37

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6175.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



Date: 18.SEP.2024 10:07:21

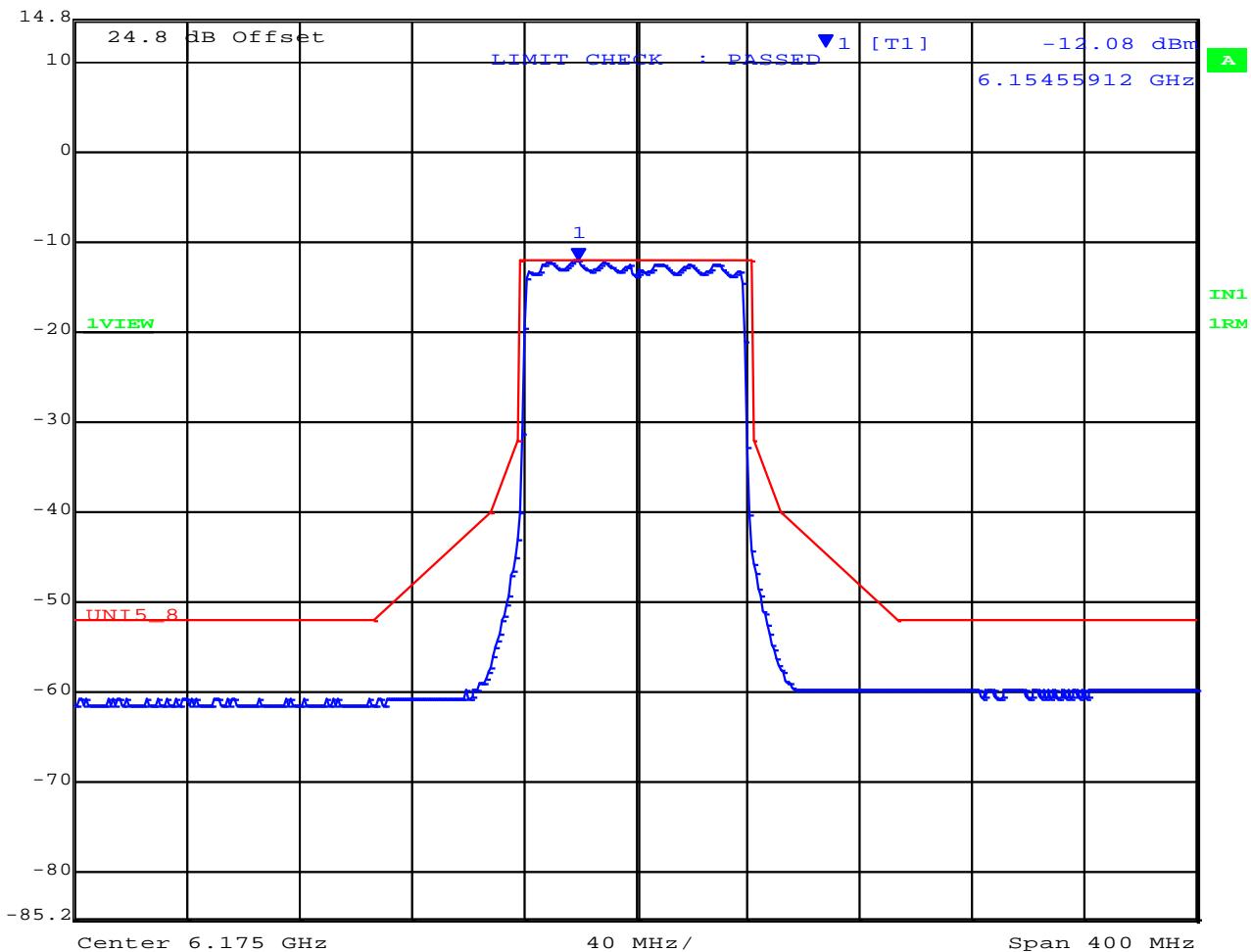
[back to matrix](#)

## SPECTRUM EMISSION MASK

 MiTest  
REGULATORY COMPLIANCE IN THE CLOUD

Variant: 80MHz, Channel: 6175.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc

	Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
Ref Lvl	-12.08 dBm	VBW	3 MHz		
14.8 dBm	6.15455912 GHz	SWT	200 ms	Unit	dBm



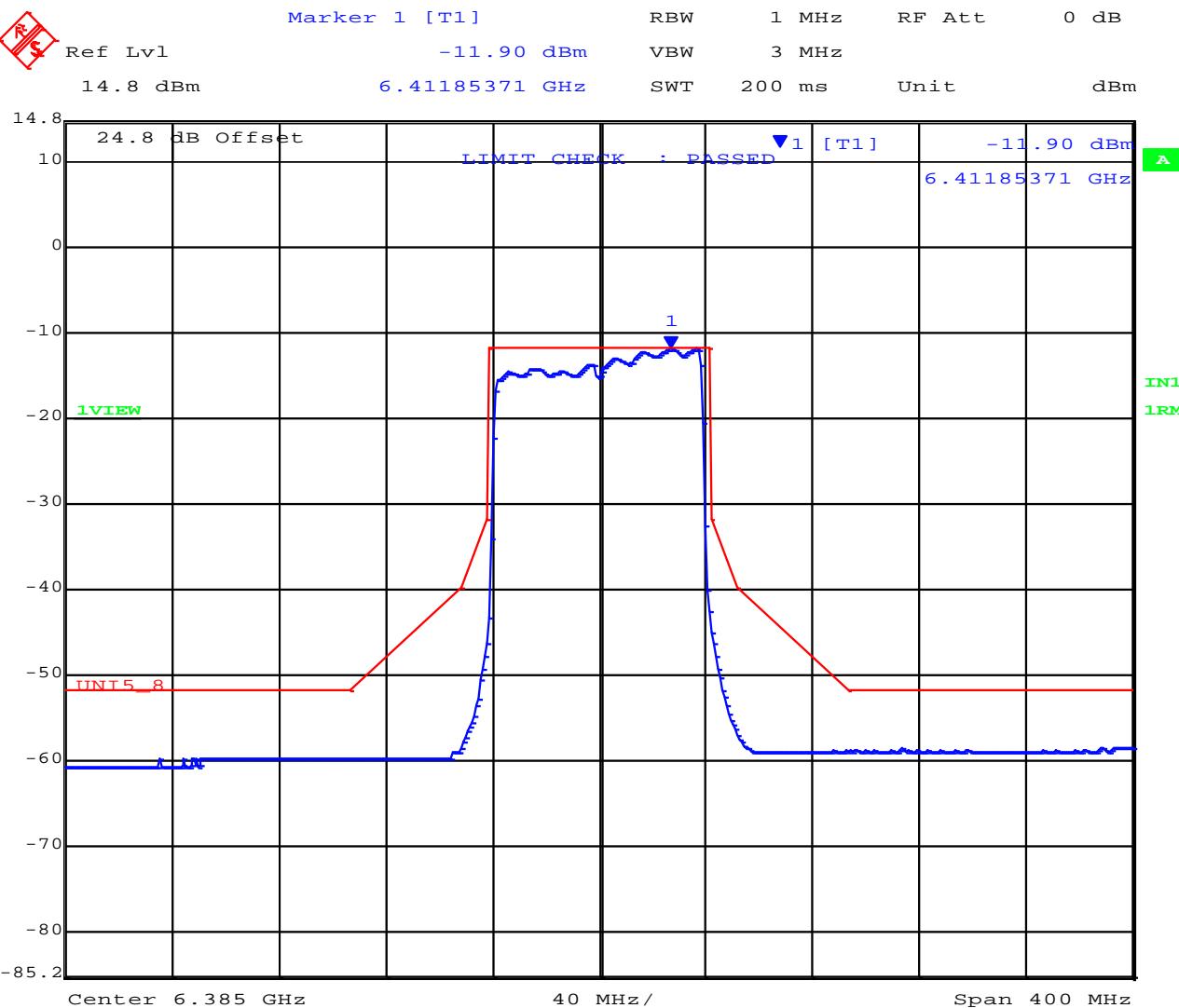
Date: 18.SEP.2024 10:06:36

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6385.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



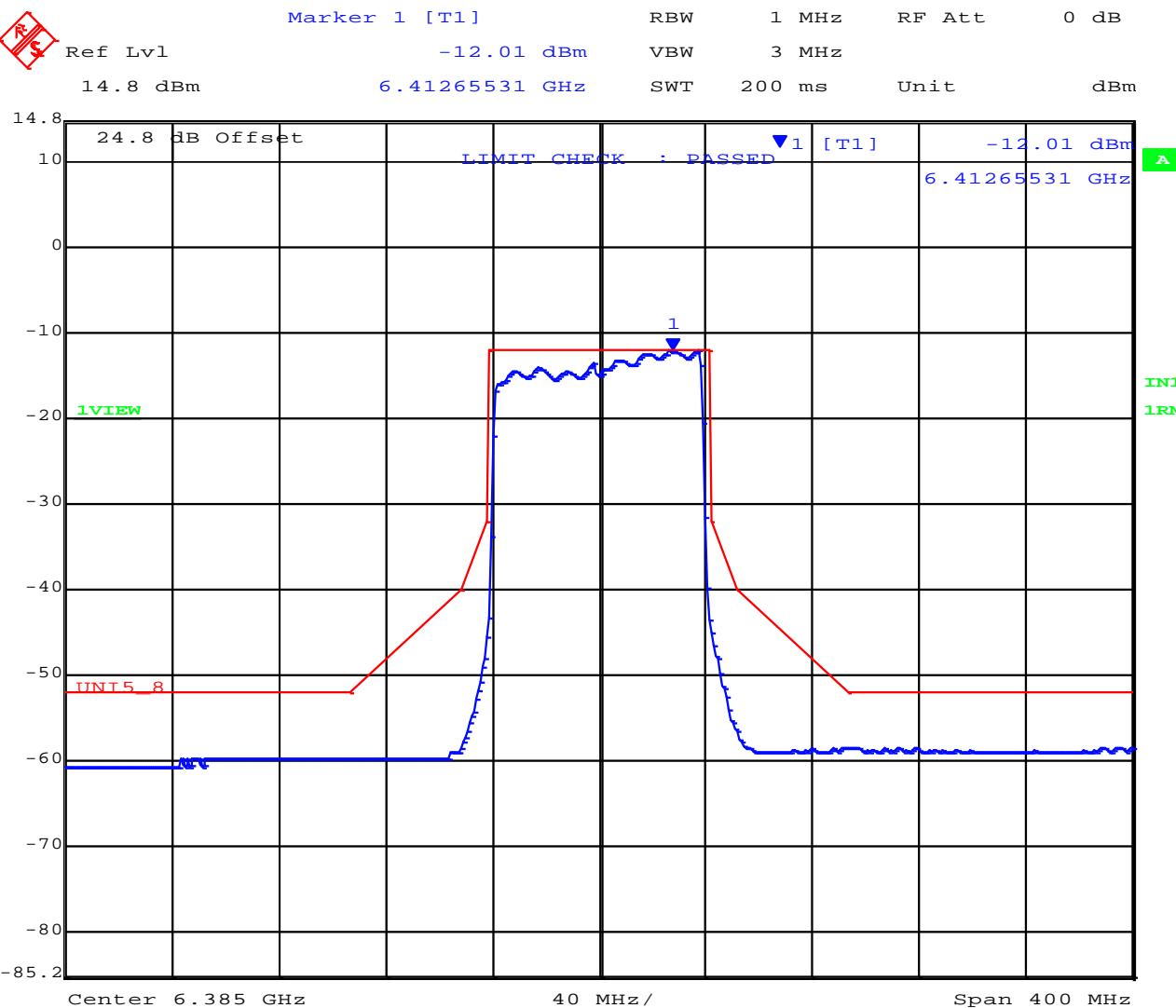
Date: 18.SEP.2024 10:24:14

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6385.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



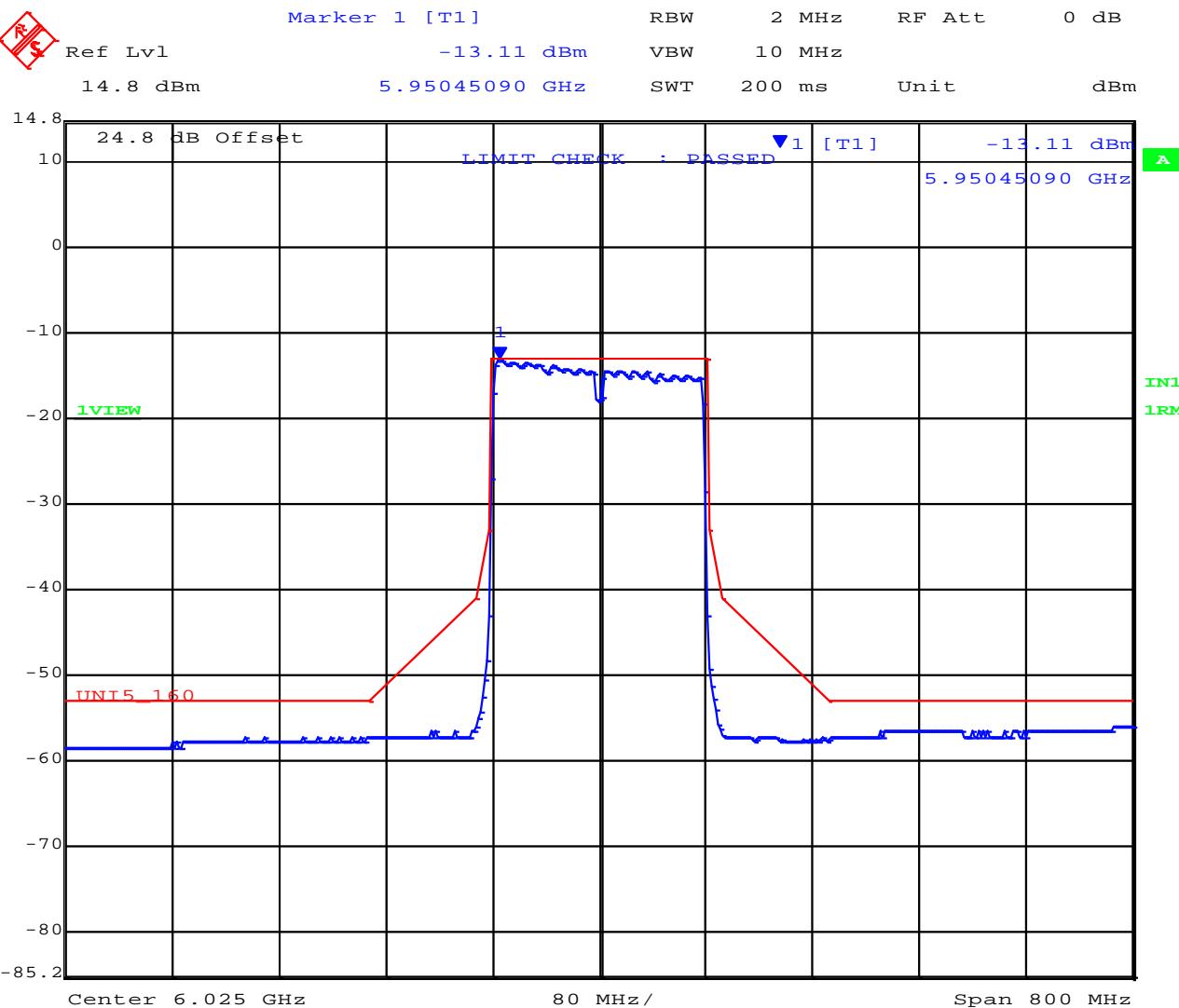
Date: 18.SEP.2024 10:25:04

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6025.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



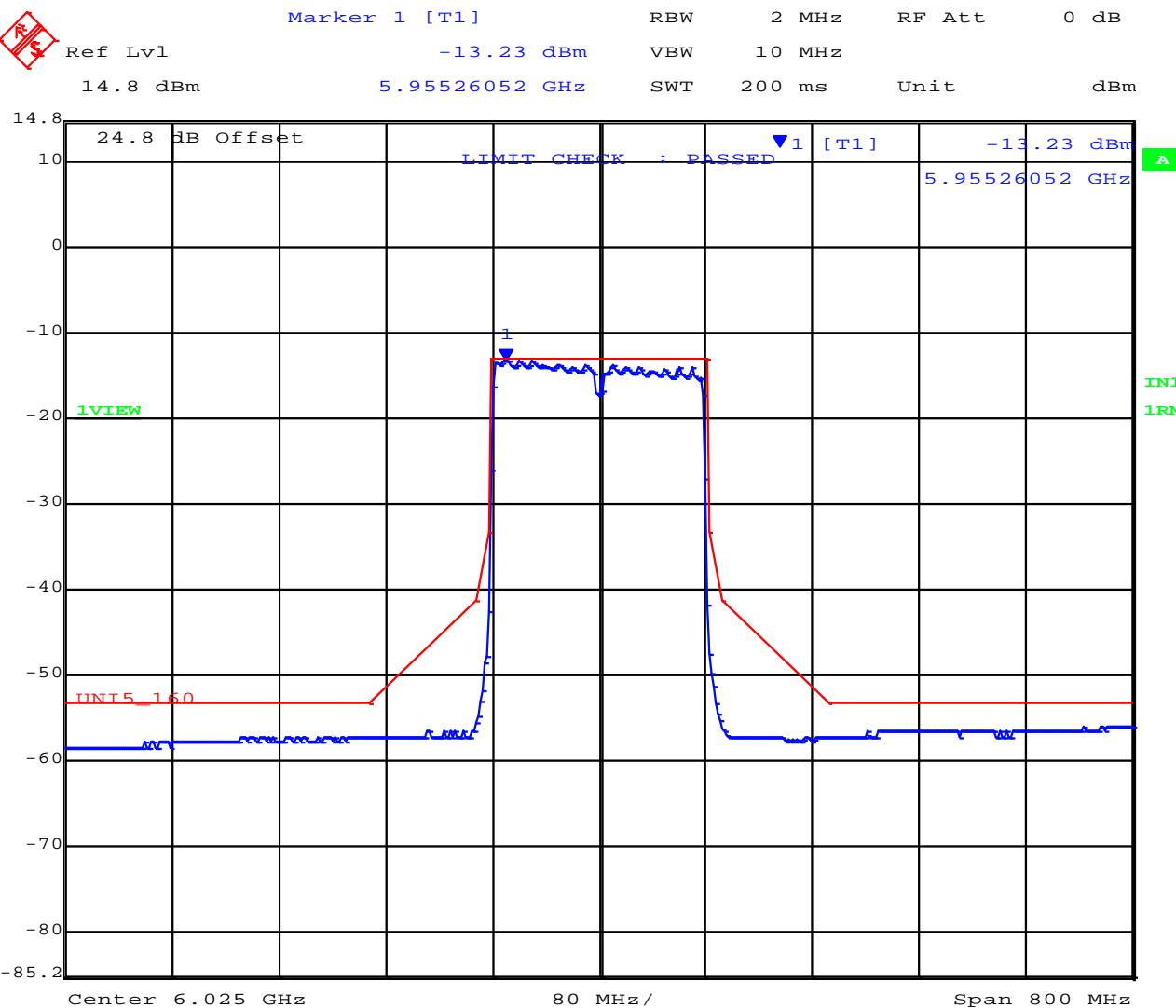
Date: 18.SEP.2024 10:36:14

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6025.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



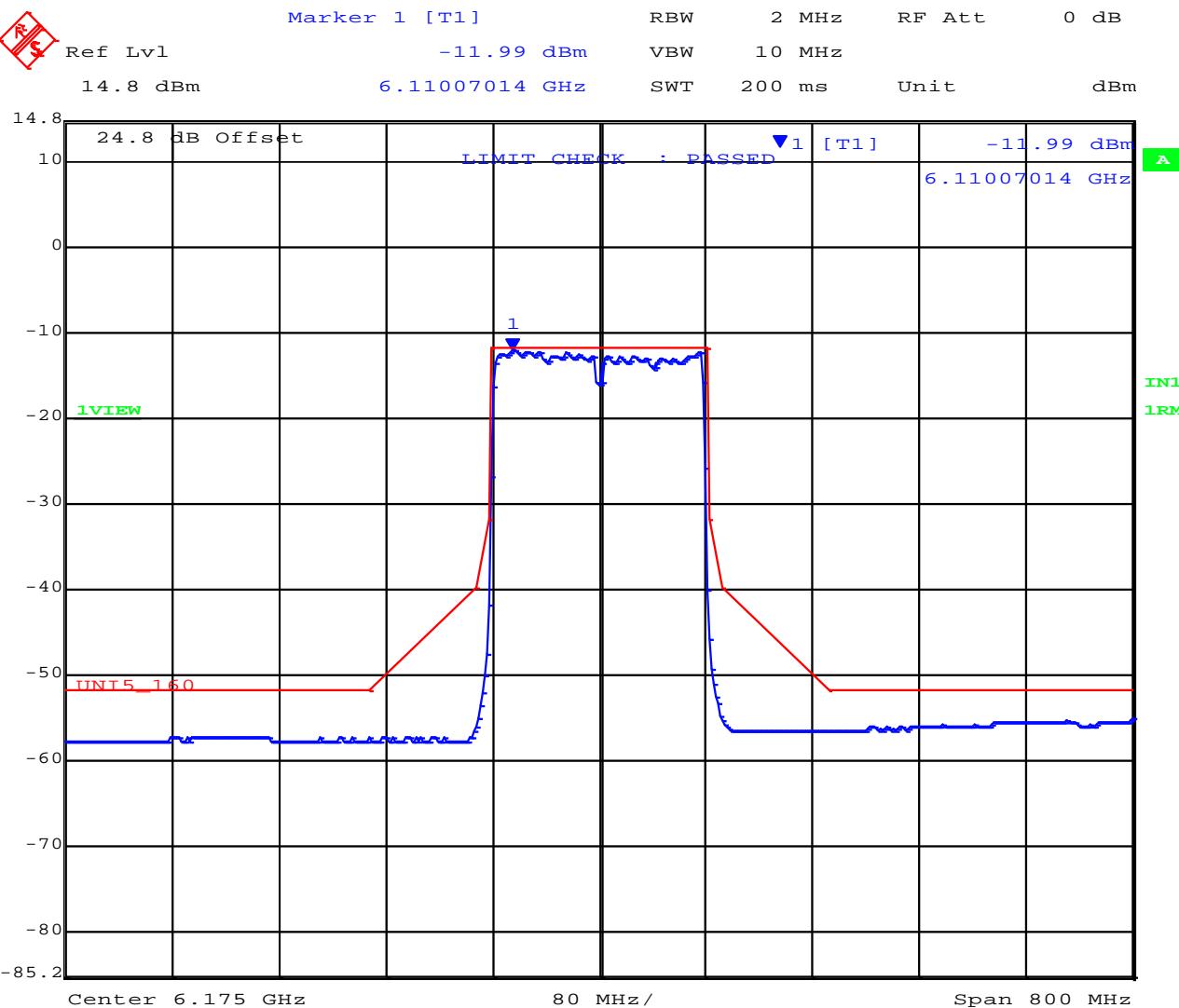
Date: 18.SEP.2024 10:35:40

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6175.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



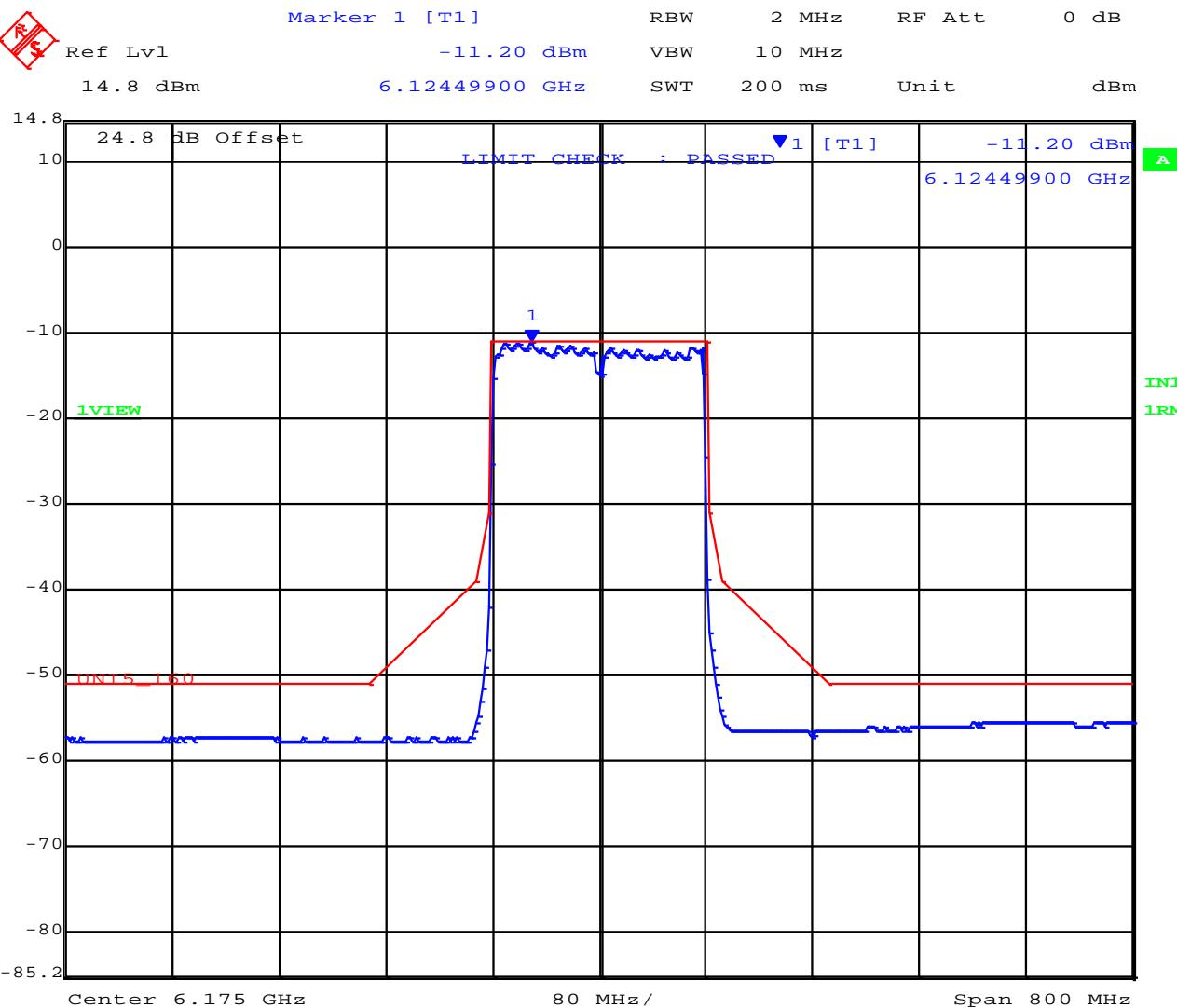
Date: 18.SEP.2024 10:40:19

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6175.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



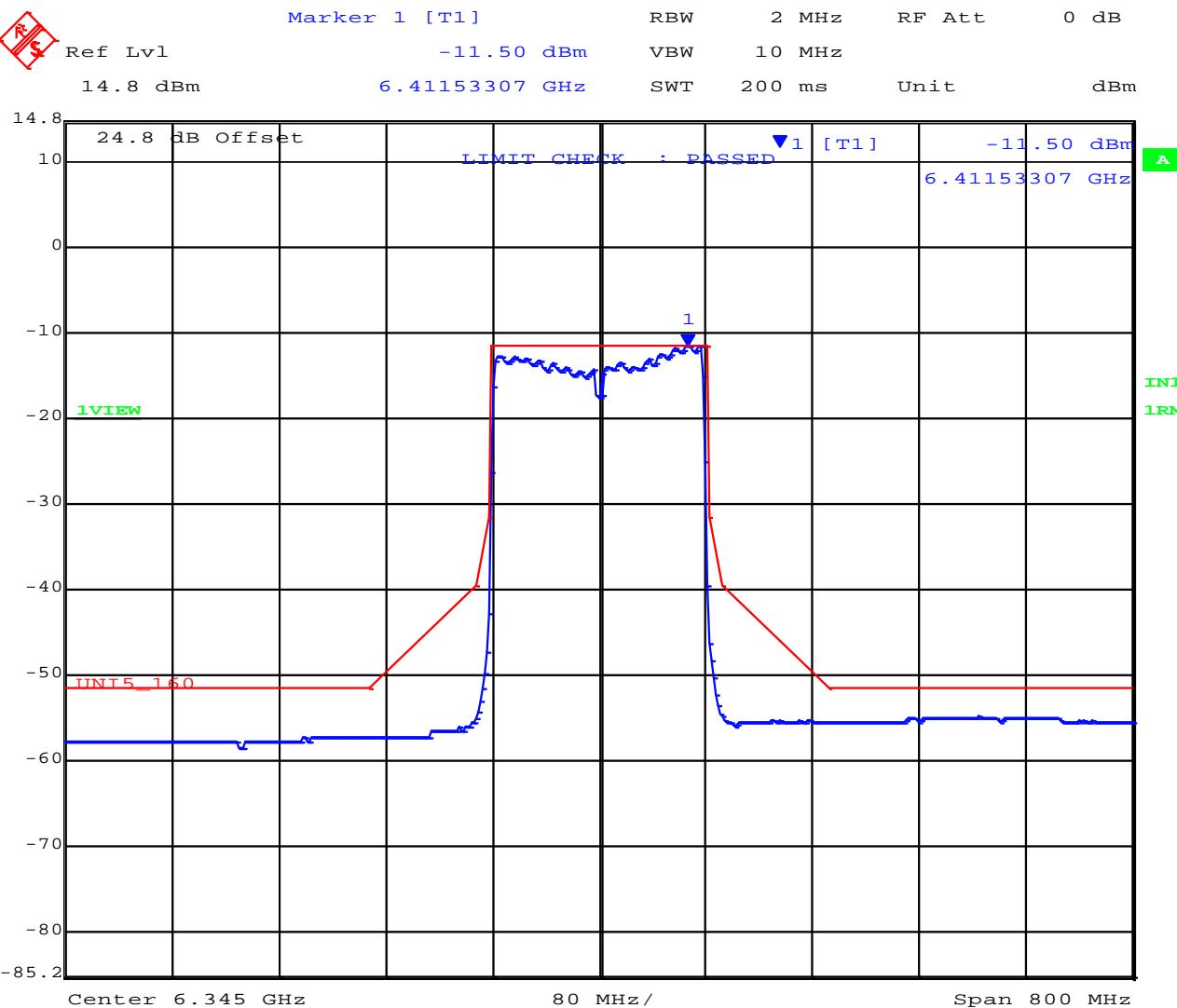
Date: 18.SEP.2024 10:40:49

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6345.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



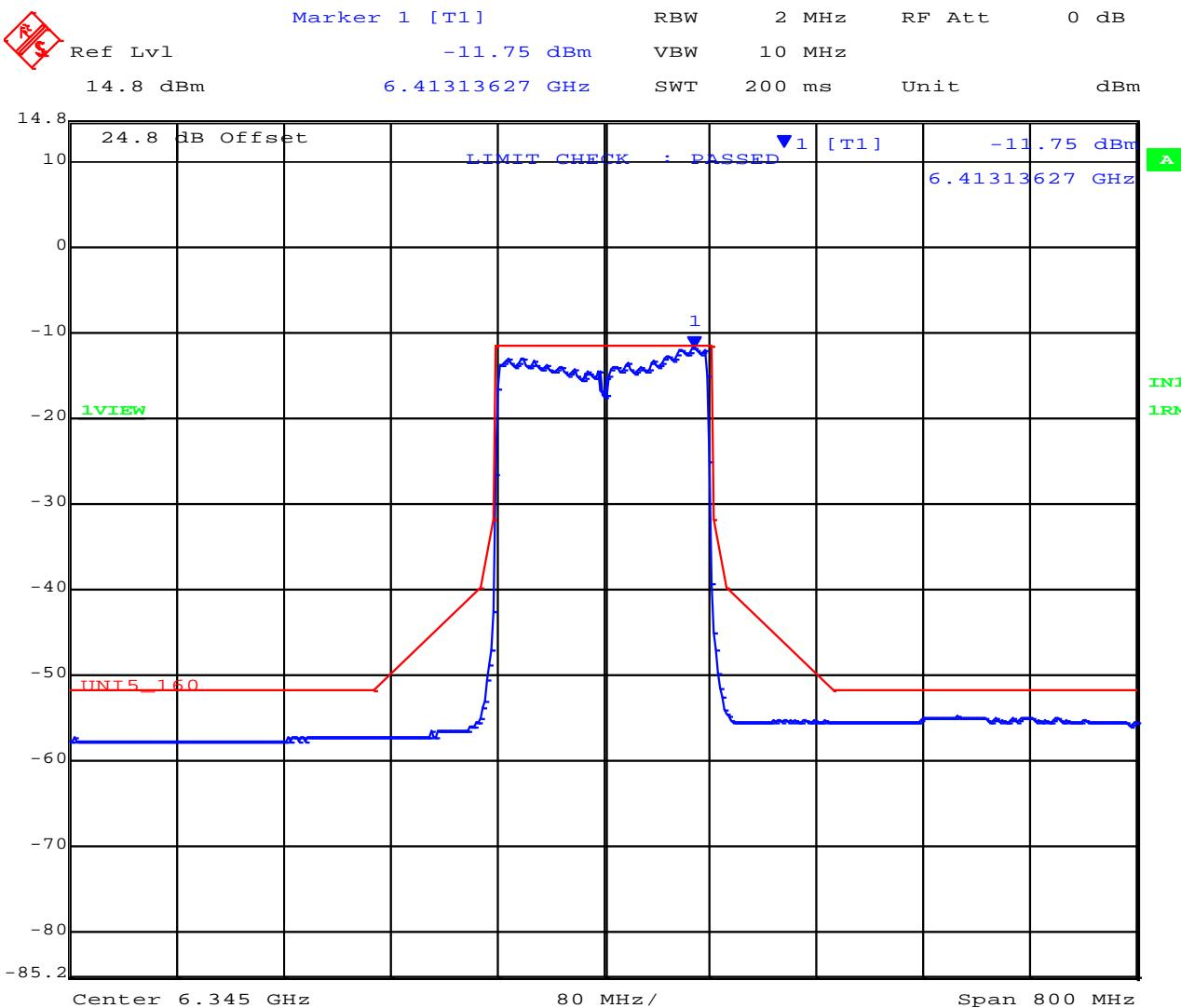
Date: 18.SEP.2024 10:42:43

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6345.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc

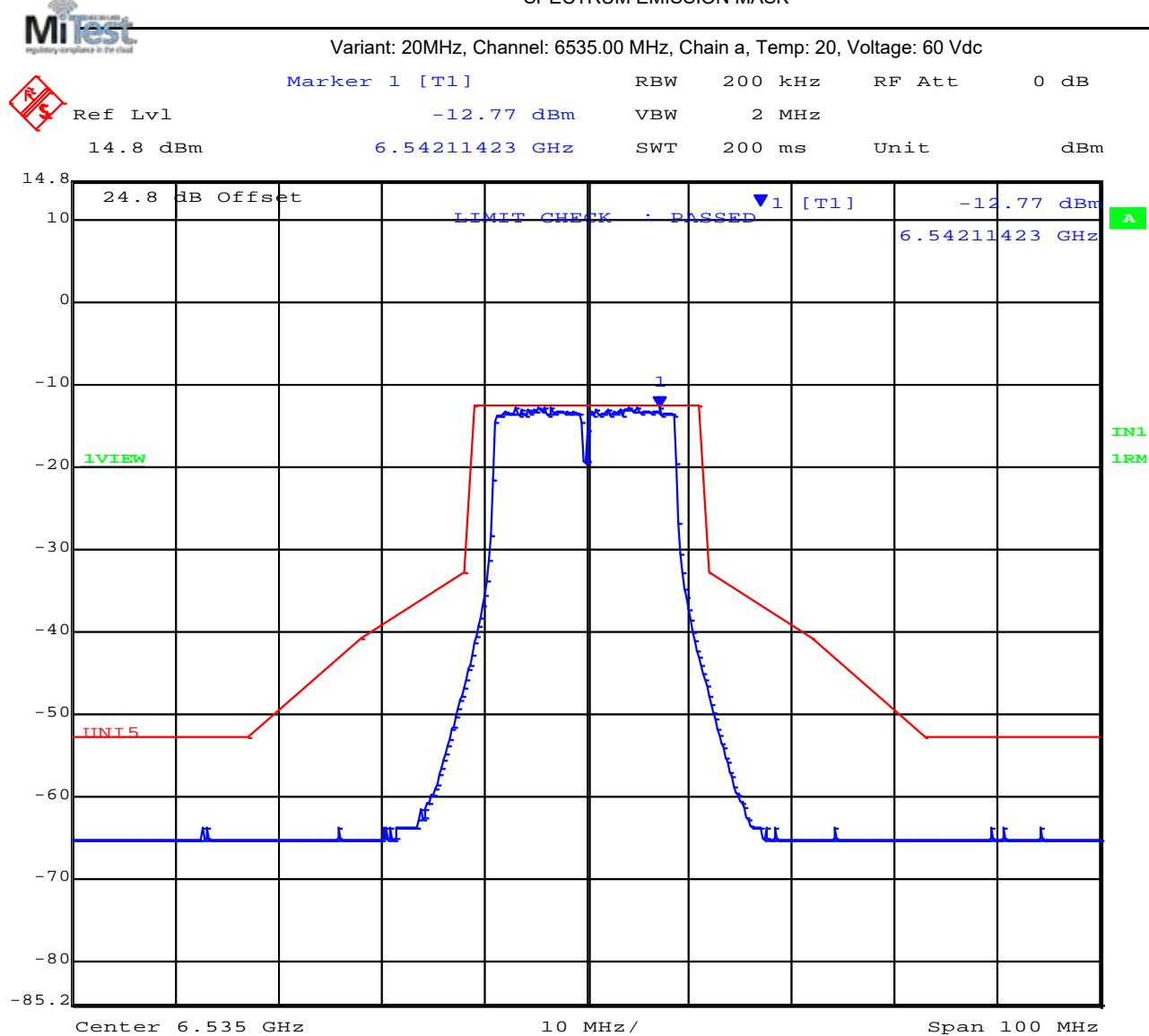


Date: 18.SEP.2024 10:41:51

[back to matrix](#)

**A.3.2. 6525.00-6875.00**

SPECTRUM EMISSION MASK

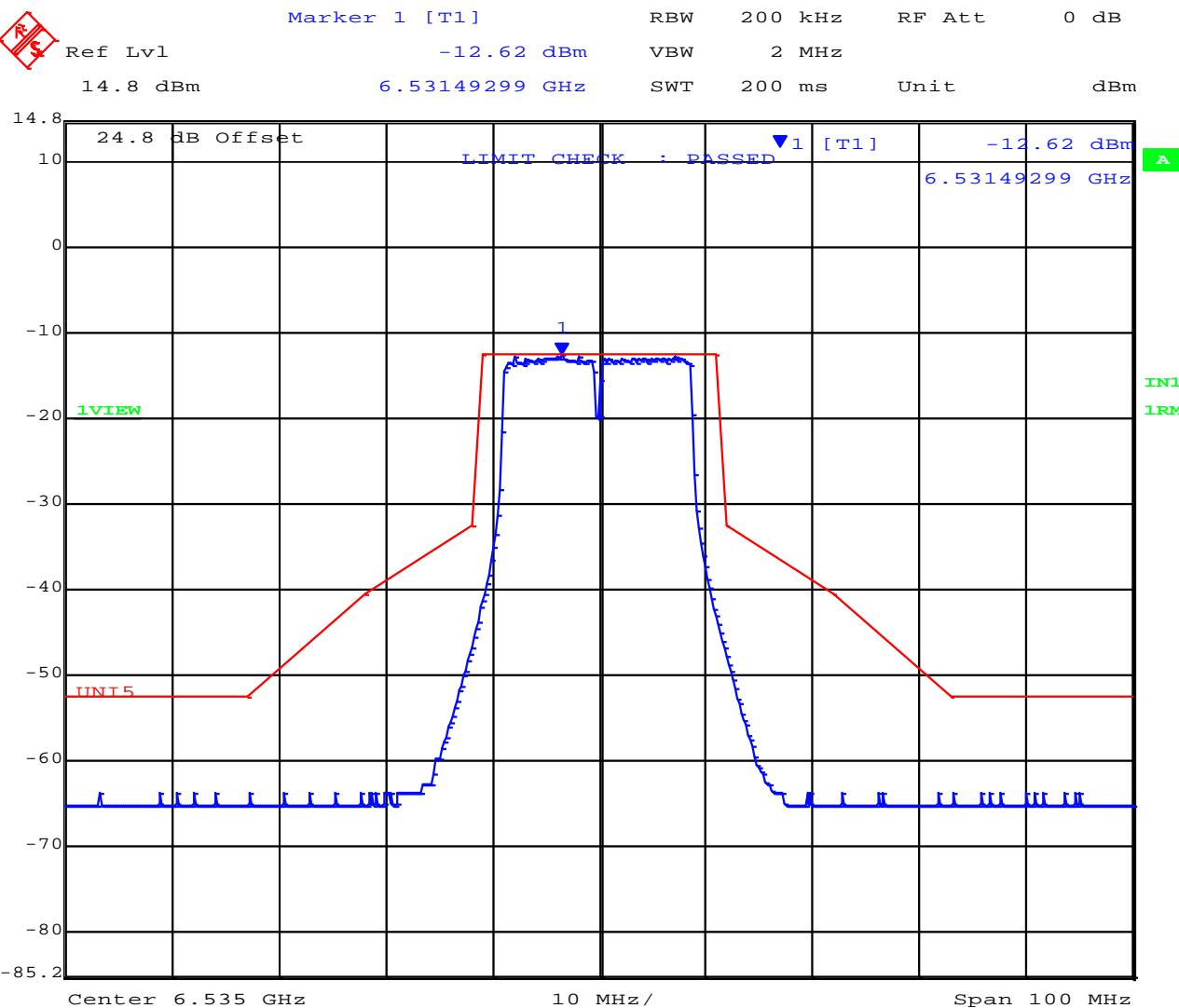


Date: 18.SEP.2024 14:10:54

[back to matrix](#)

SPECTRUM EMISSION MASK

Variant: 20MHz, Channel: 6535.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc

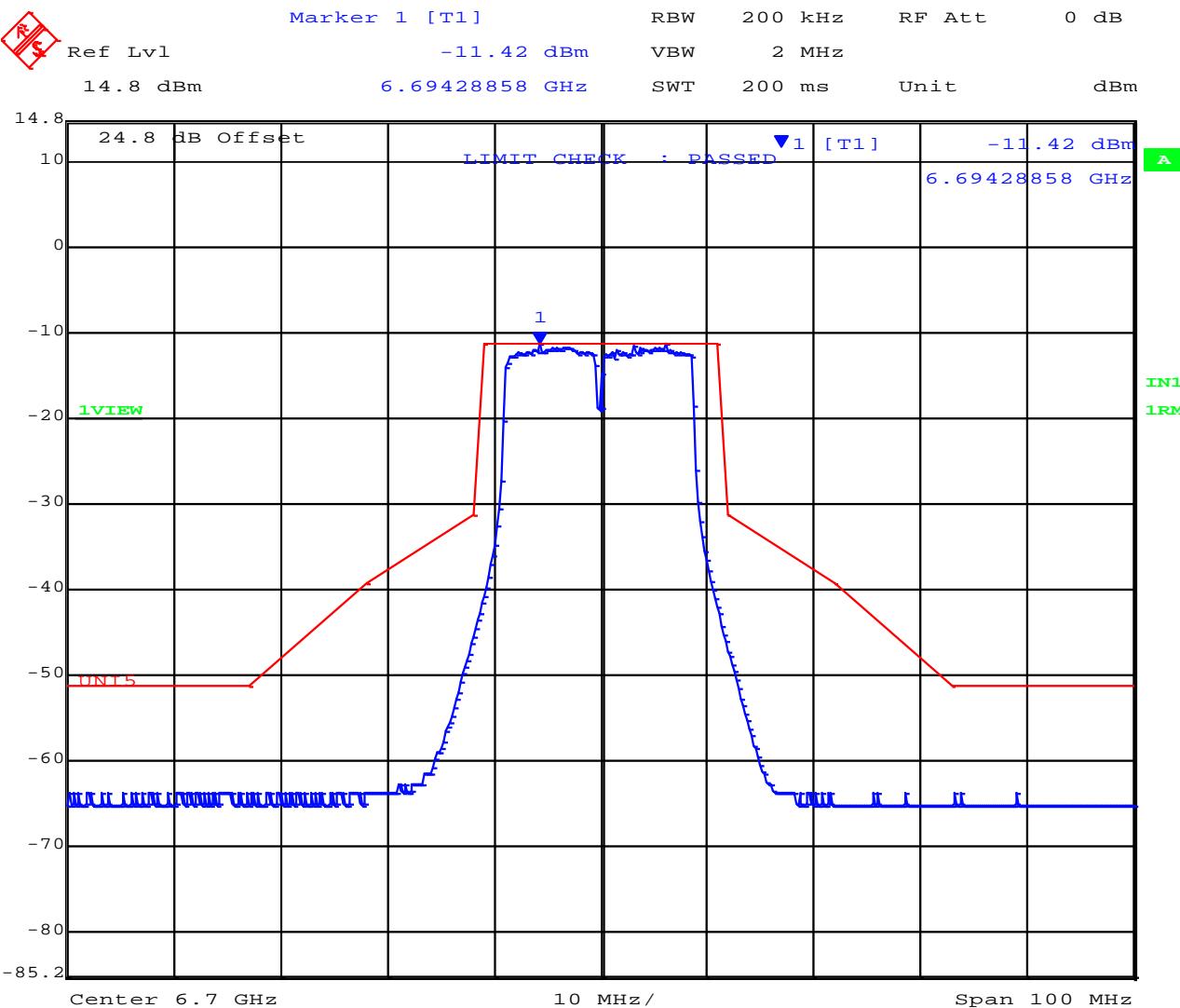


Date: 18.SEP.2024 14:09:52

[back to matrix](#)

SPECTRUM EMISSION MASK

Variant: 20MHz, Channel: 6700.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc

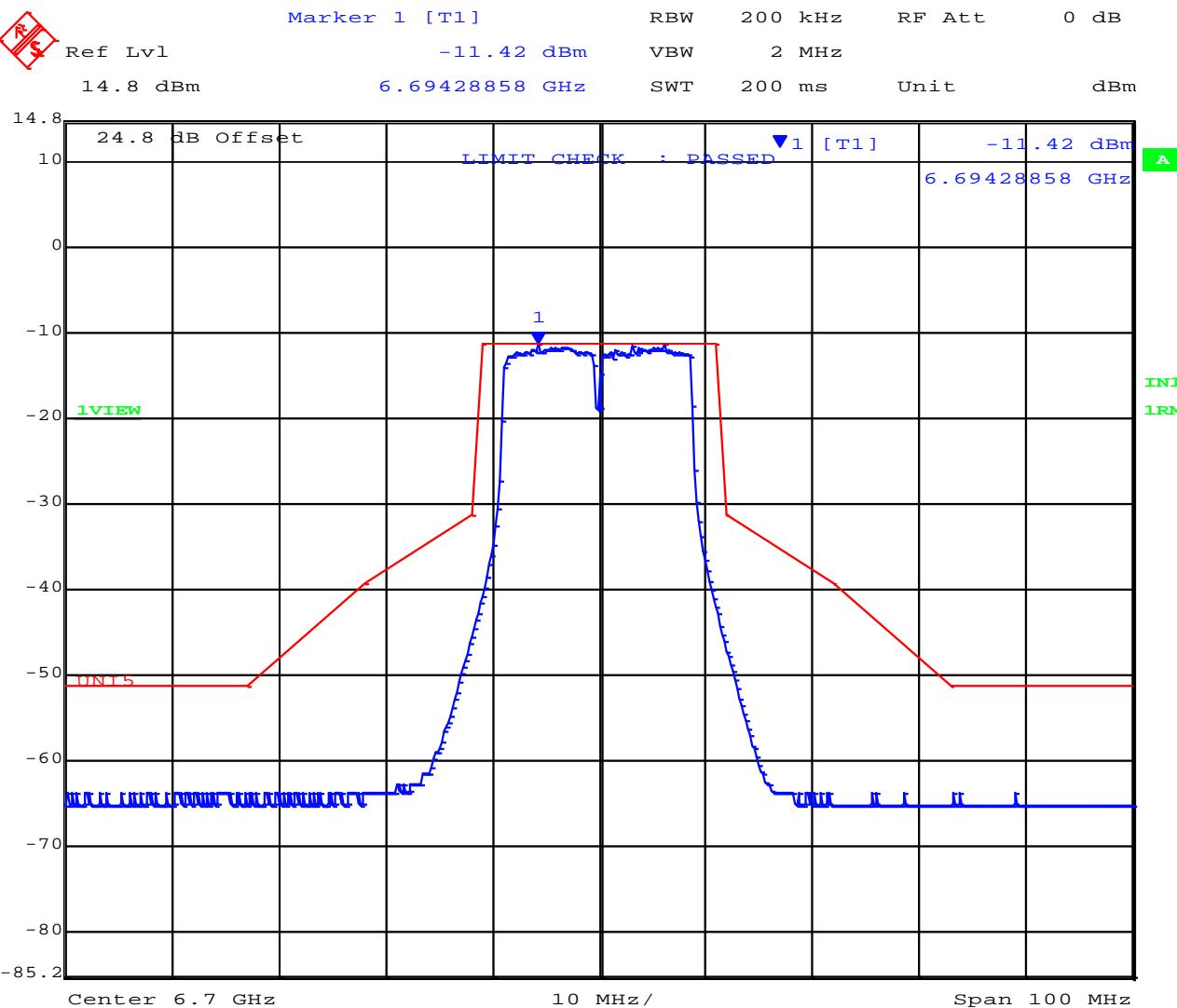


Date: 18.SEP.2024 14:26:49

[back to matrix](#)

SPECTRUM EMISSION MASK

Variant: 20MHz, Channel: 6700.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



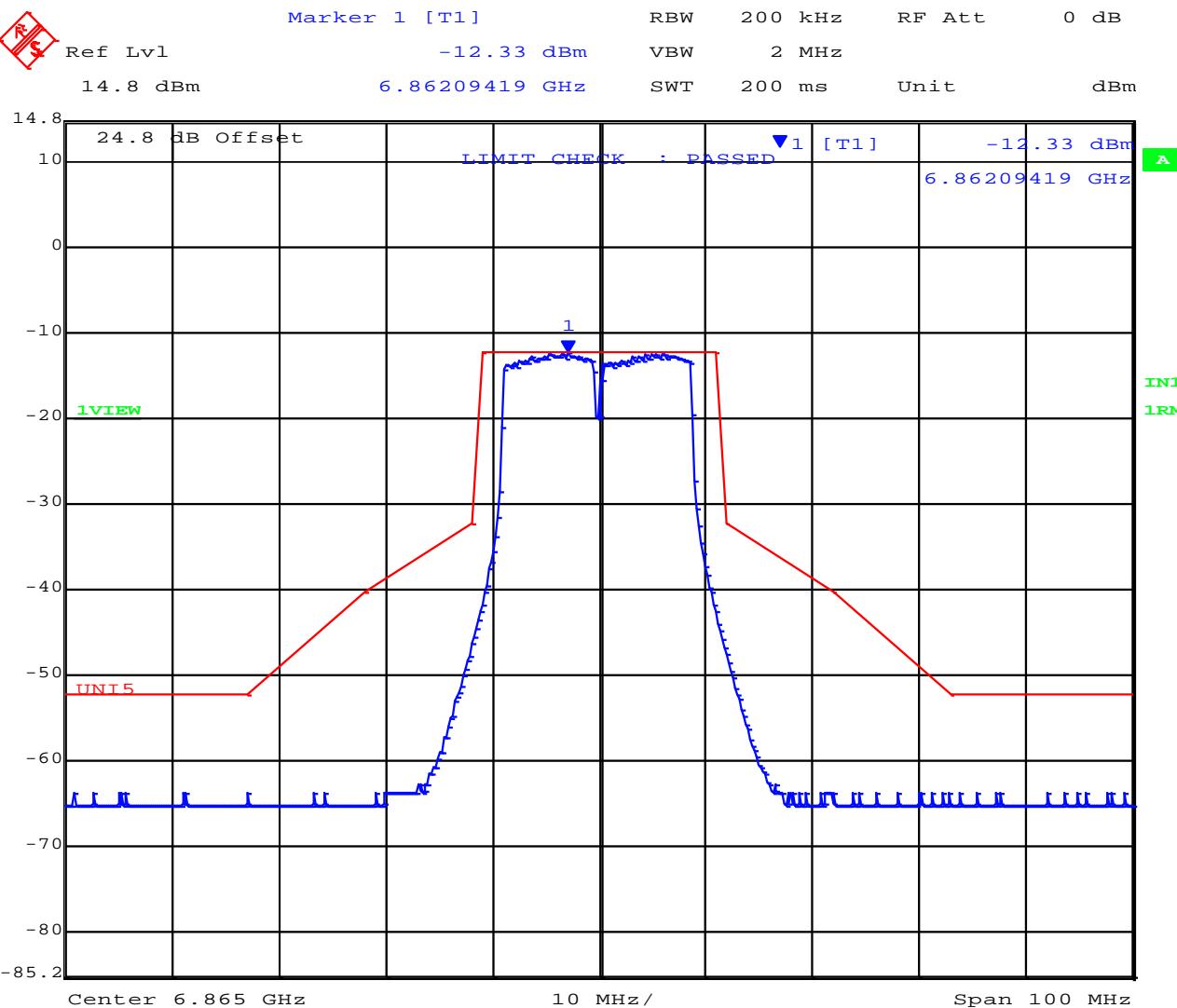
Date: 18.SEP.2024 14:24:18

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 6865.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



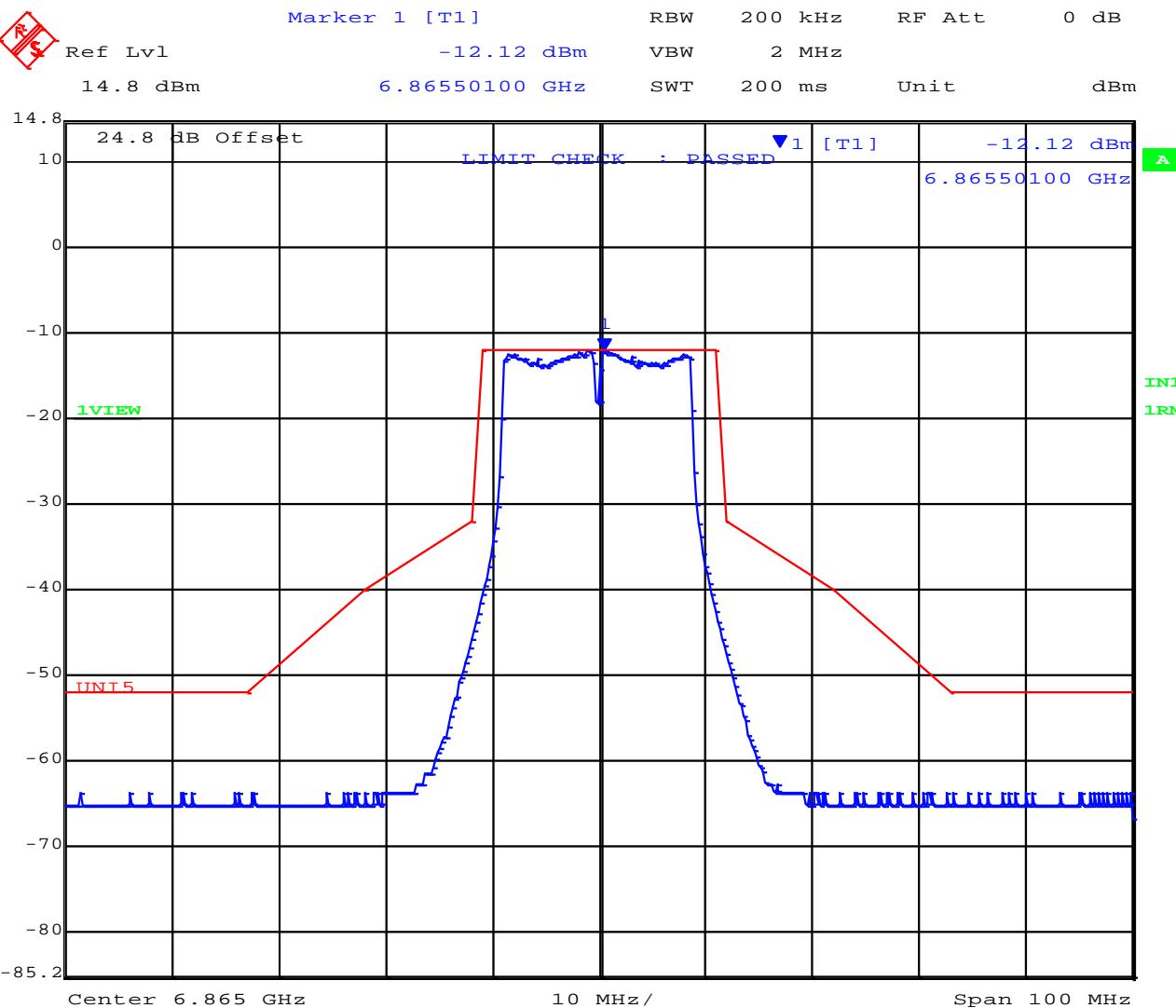
Date: 18.SEP.2024 14:31:33

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 20MHz, Channel: 6865.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



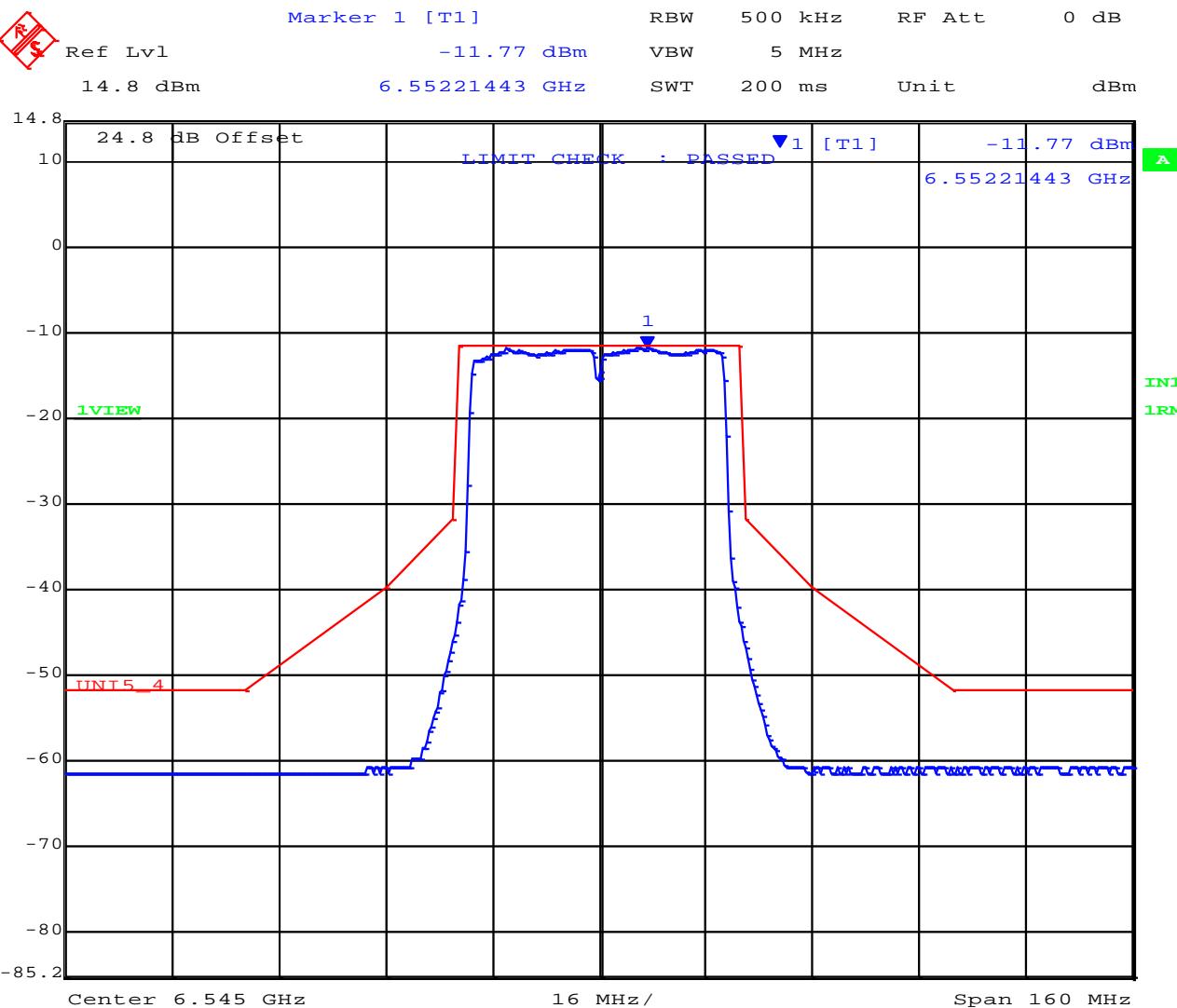
Date: 18.SEP.2024 14:32:22

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6545.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc

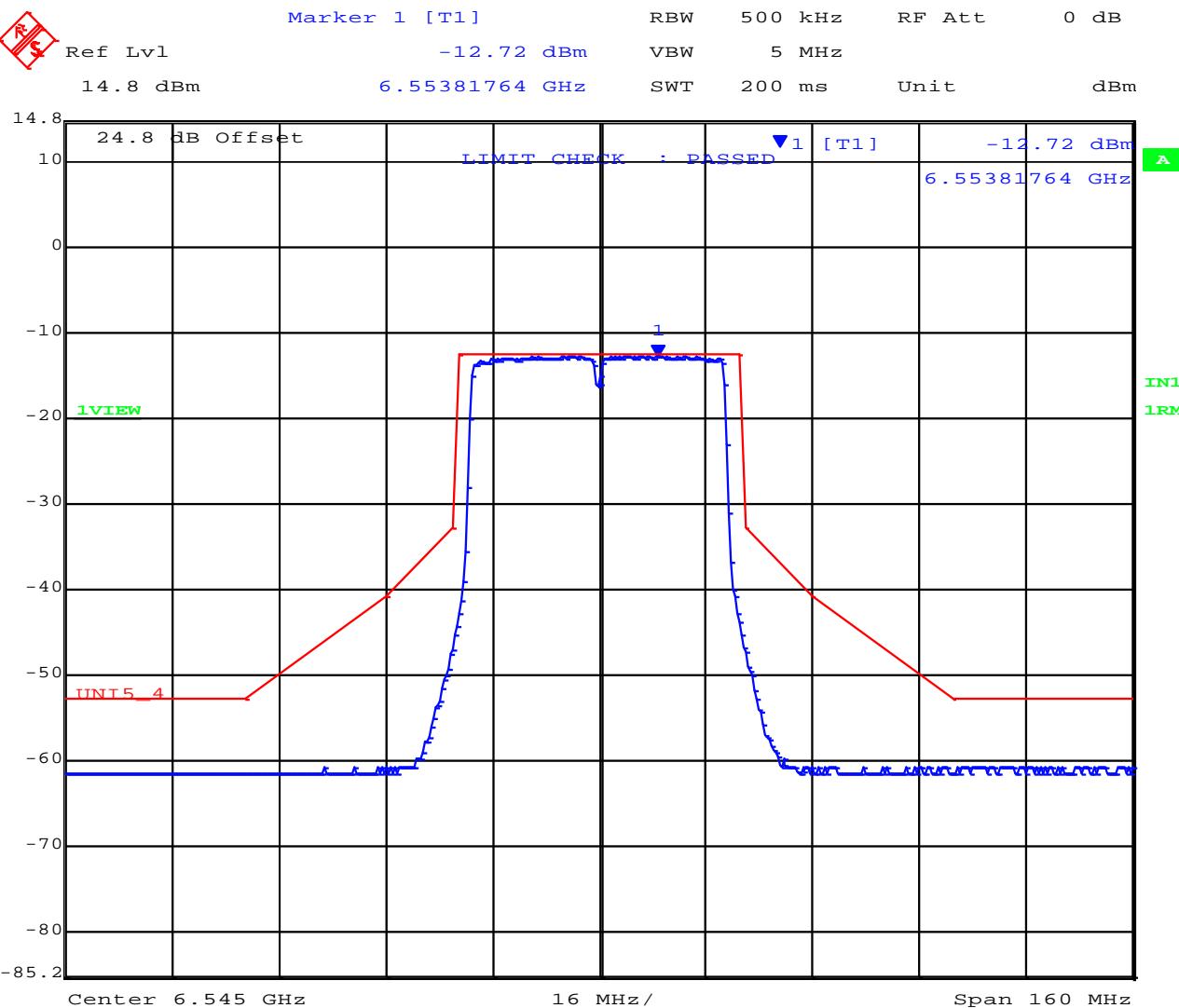


Date: 18.SEP.2024 13:56:55

[back to matrix](#)

SPECTRUM EMISSION MASK

Variant: 40MHz, Channel: 6545.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



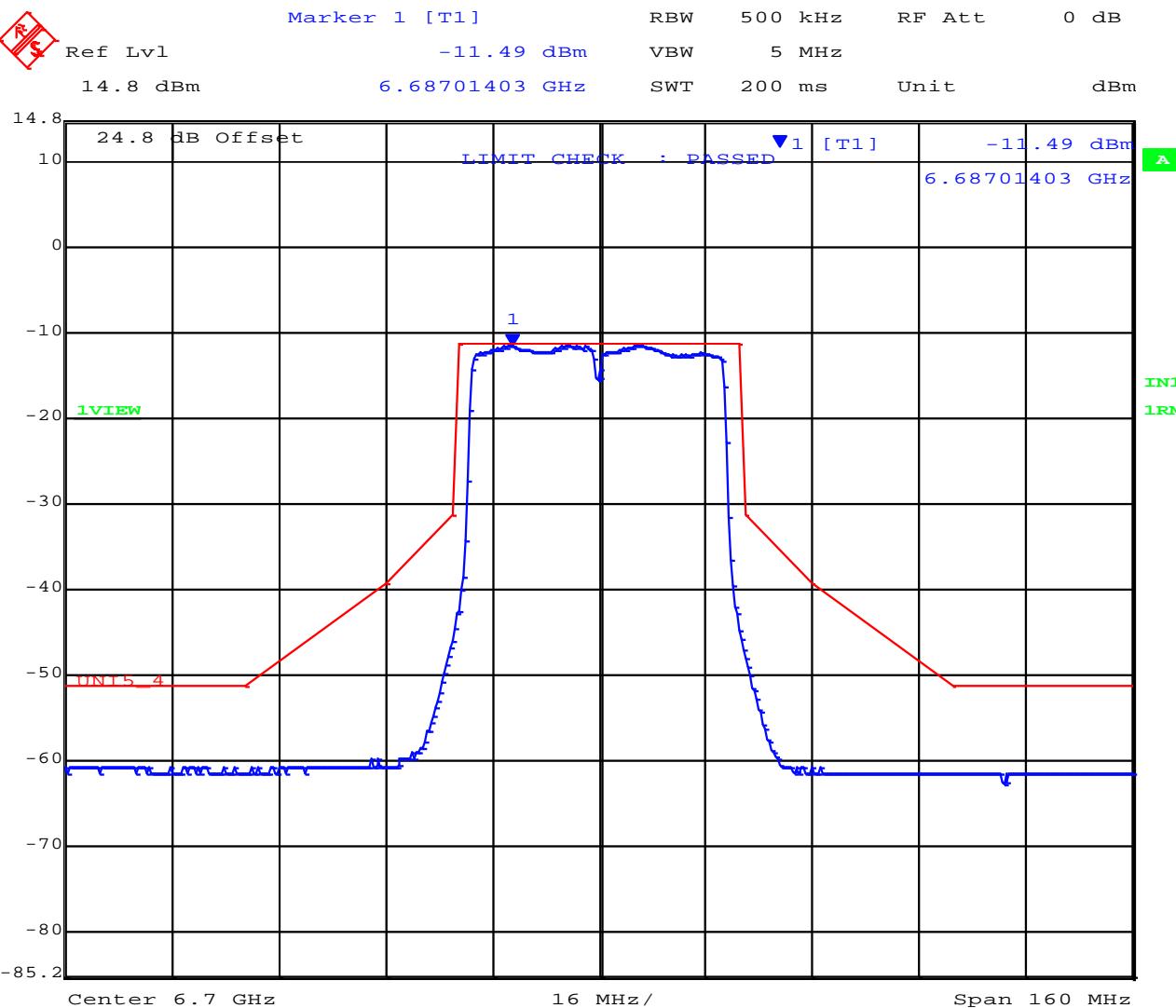
Date: 18.SEP.2024 13:58:33

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6700.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



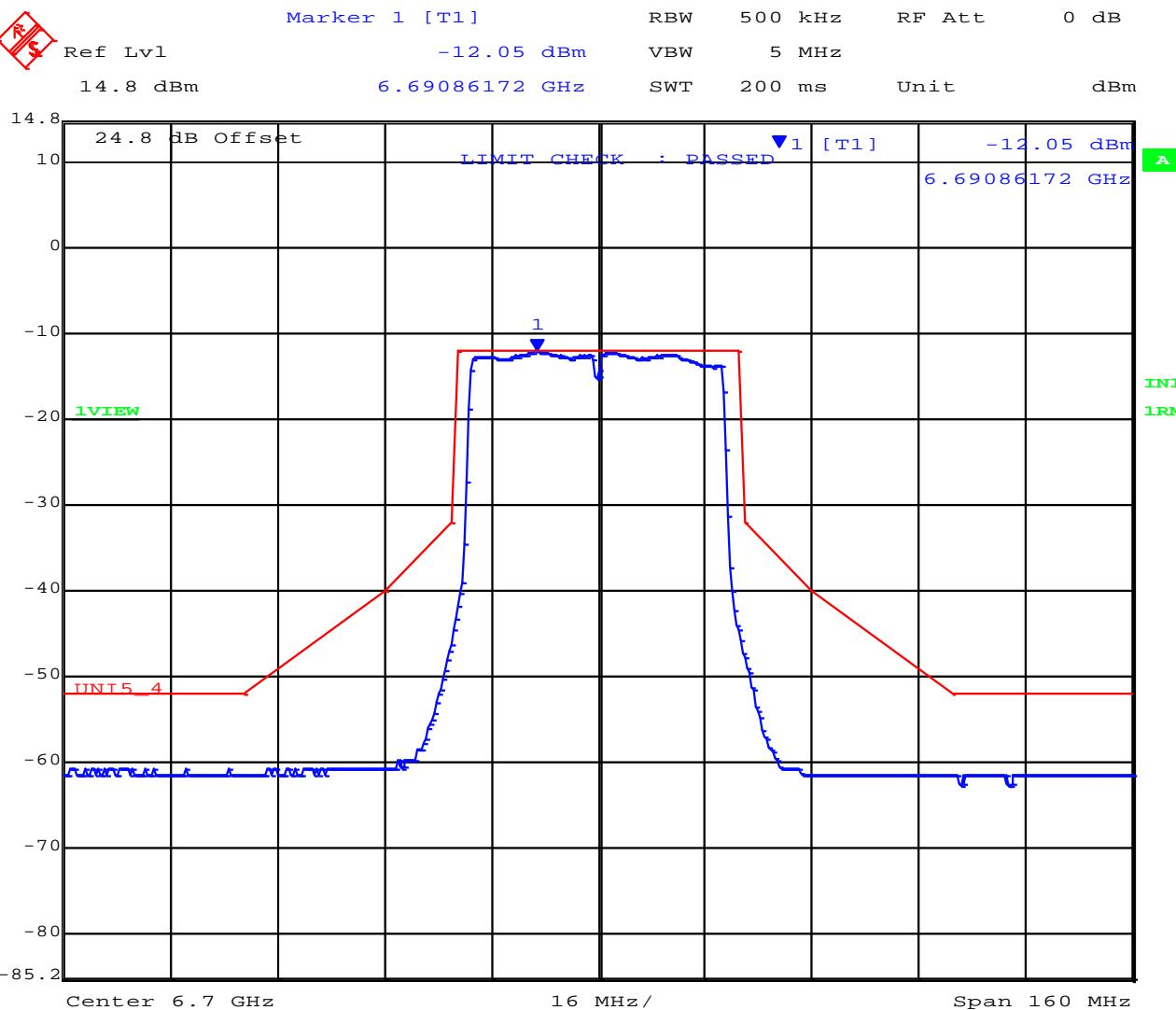
Date: 18.SEP.2024 14:02:35

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6700.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



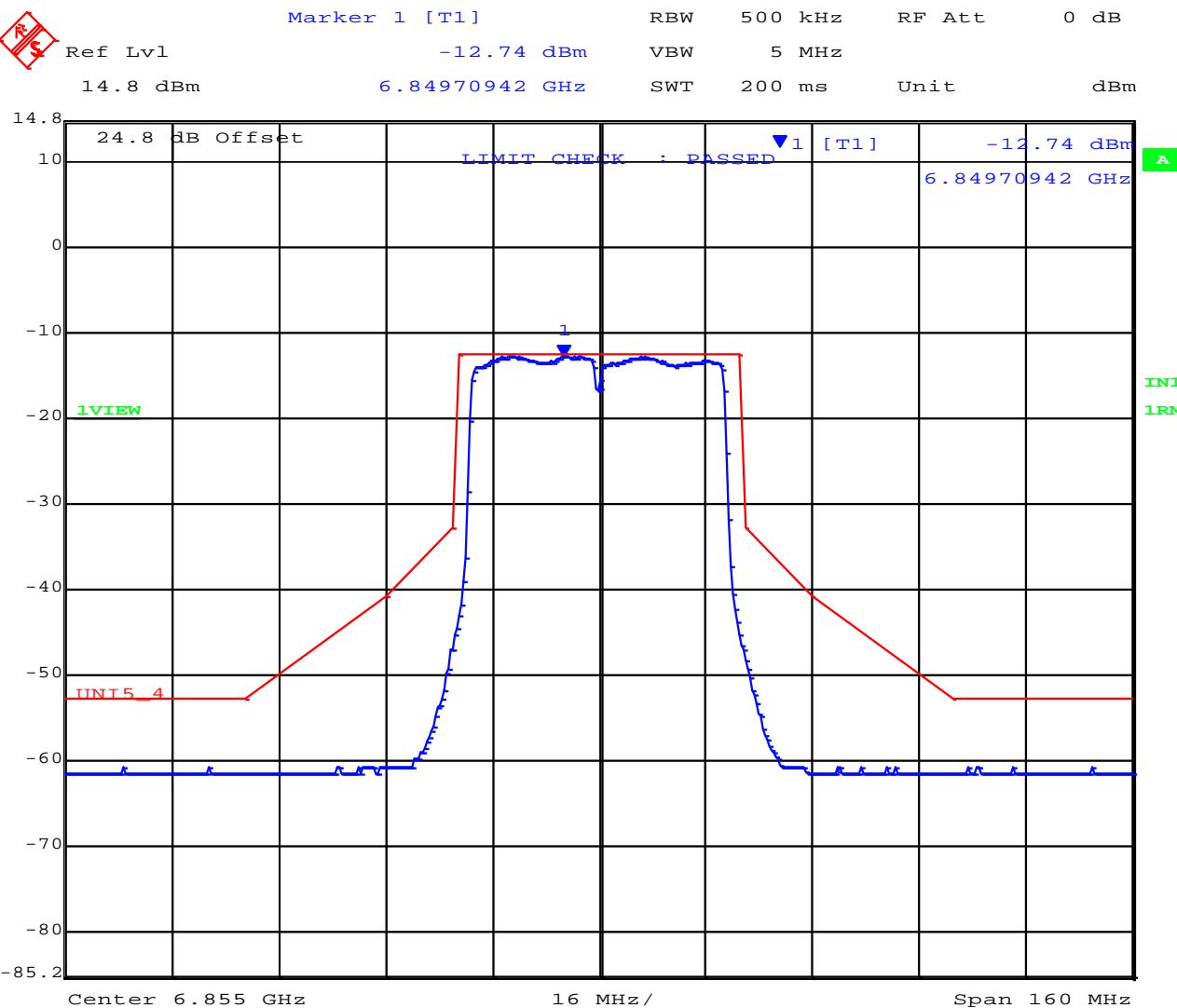
Date: 18.SEP.2024 14:01:27

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6855.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



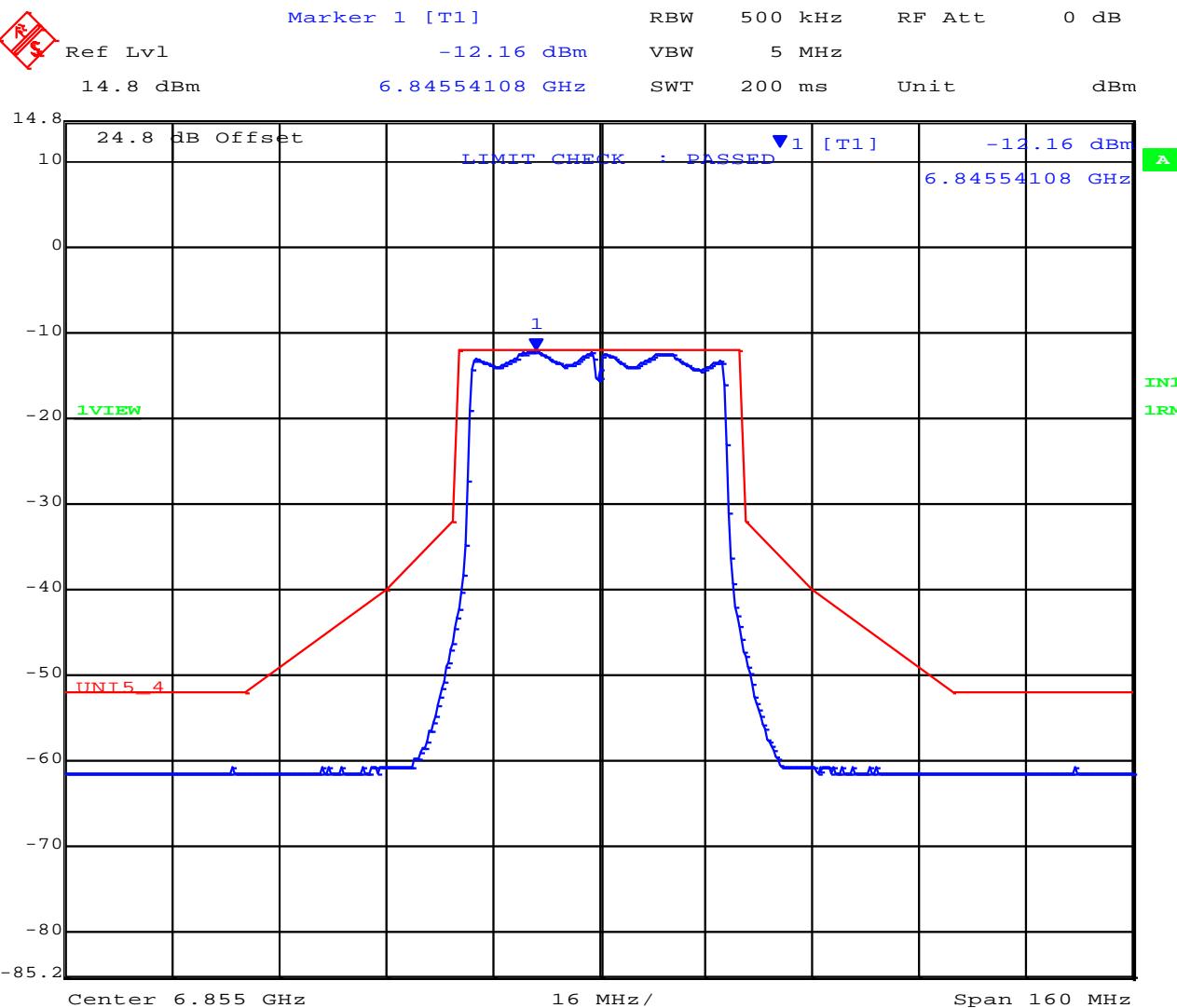
Date: 18.SEP.2024 14:04:01

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 40MHz, Channel: 6855.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



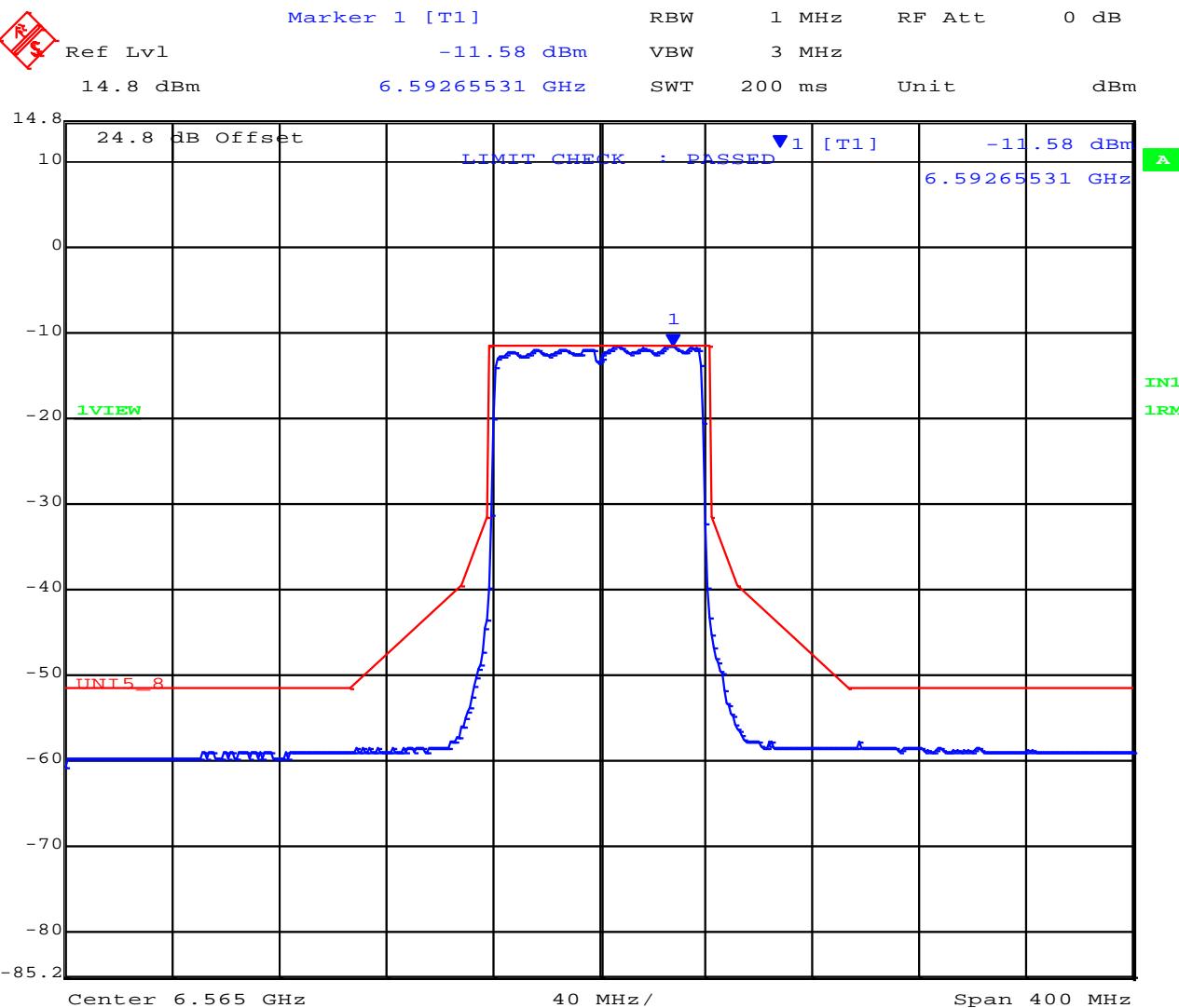
Date: 18.SEP.2024 14:04:42

[back to matrix](#)

SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6565.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



Date: 18.SEP.2024 13:23:54

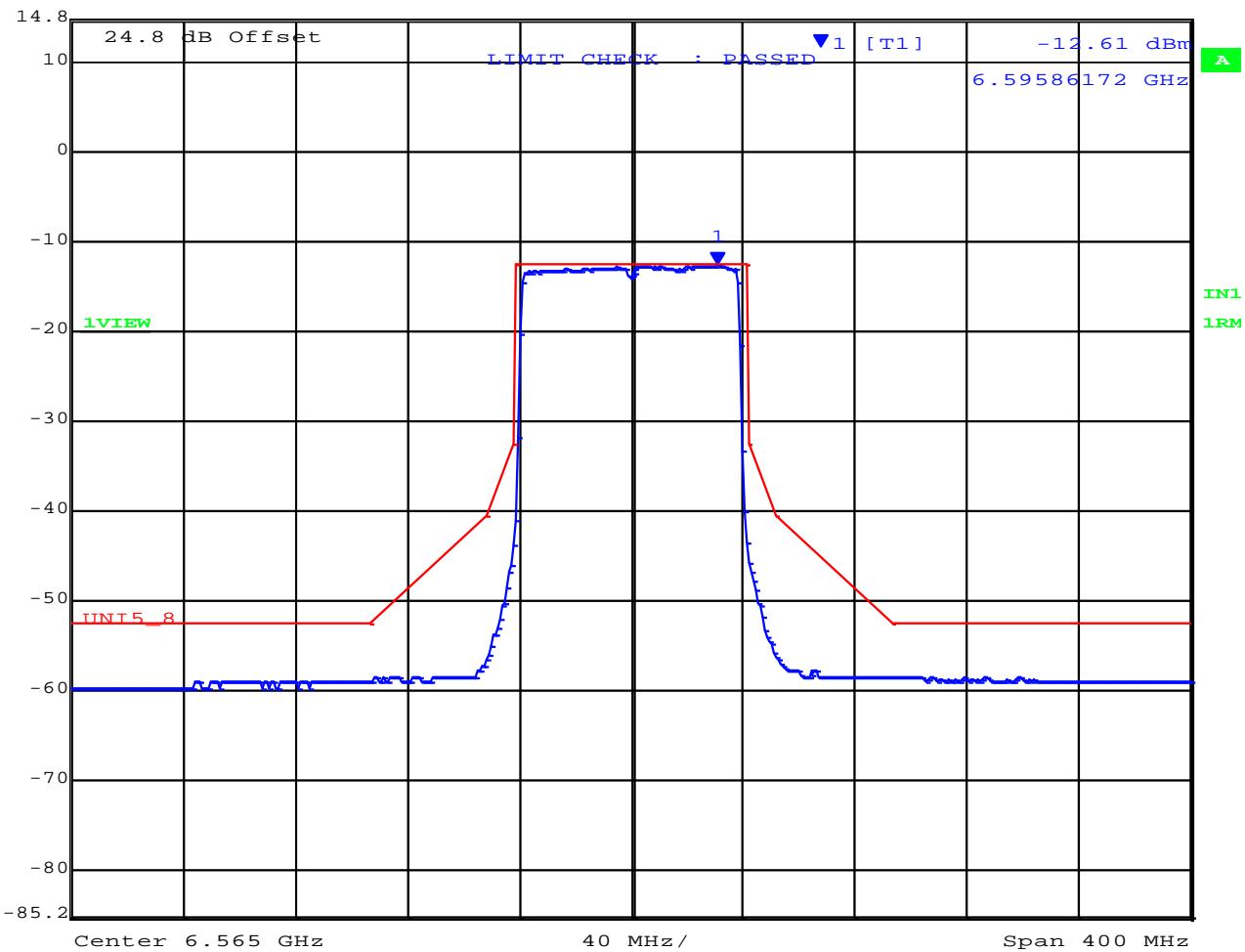
[back to matrix](#)

## SPECTRUM EMISSION MASK

 MiTest  
regulatory compliance in the cloud

Variant: 80MHz, Channel: 6565.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc

Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
-12.61 dBm	VBW	3 MHz		
6.59586172 GHz	SWT	200 ms	Unit	dBm



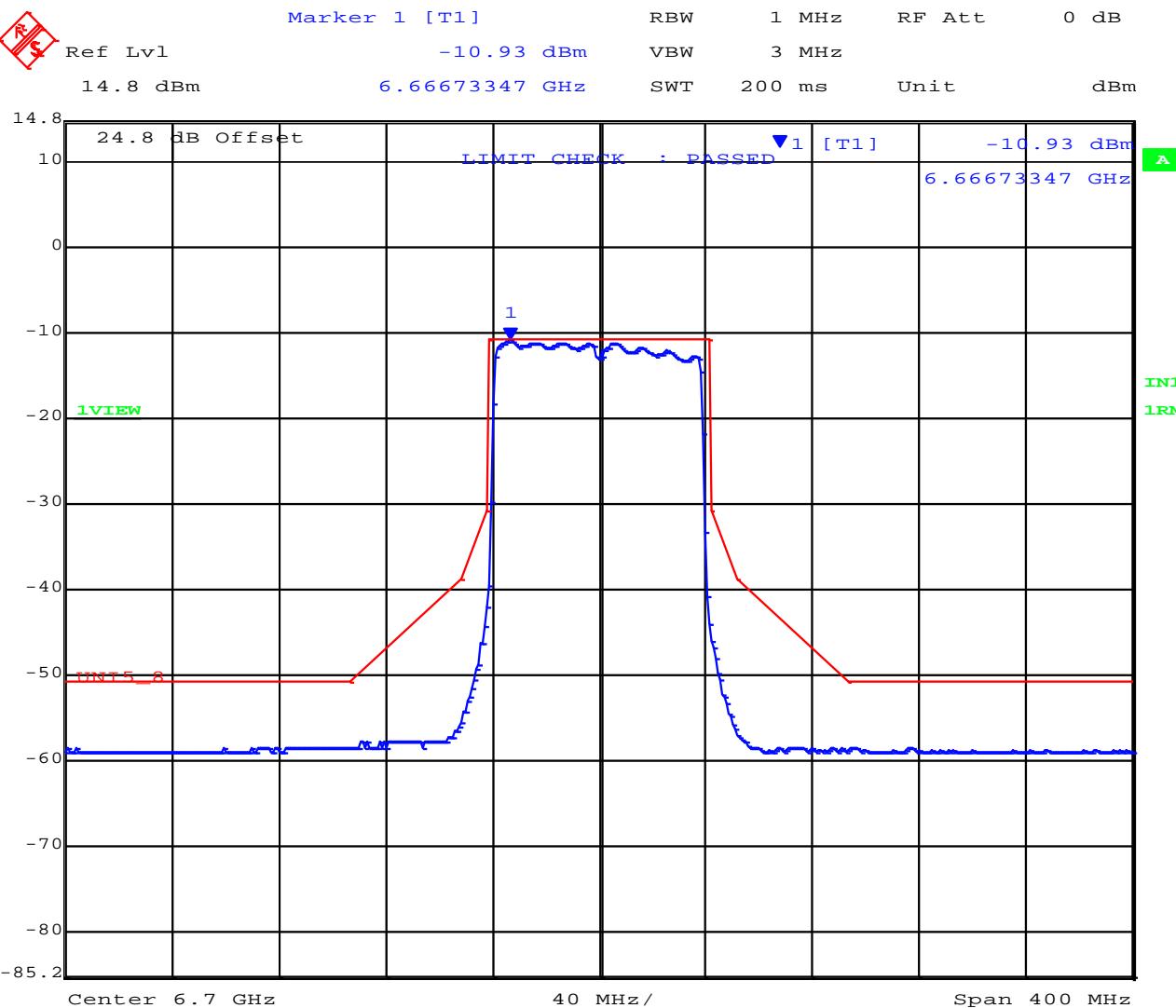
Date: 18.SEP.2024 13:23:12

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SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6700.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



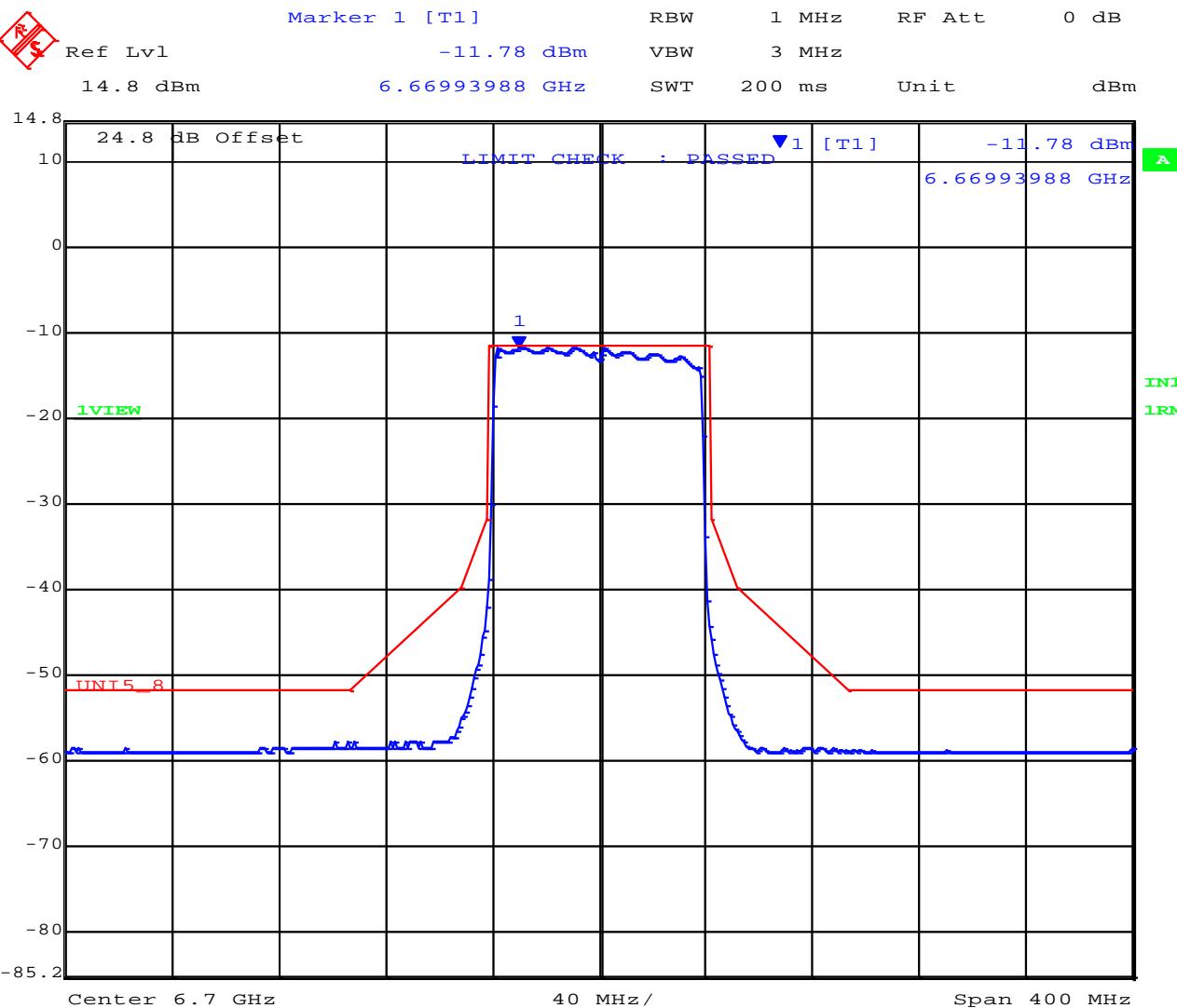
Date: 18.SEP.2024 13:45:19

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SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6700.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



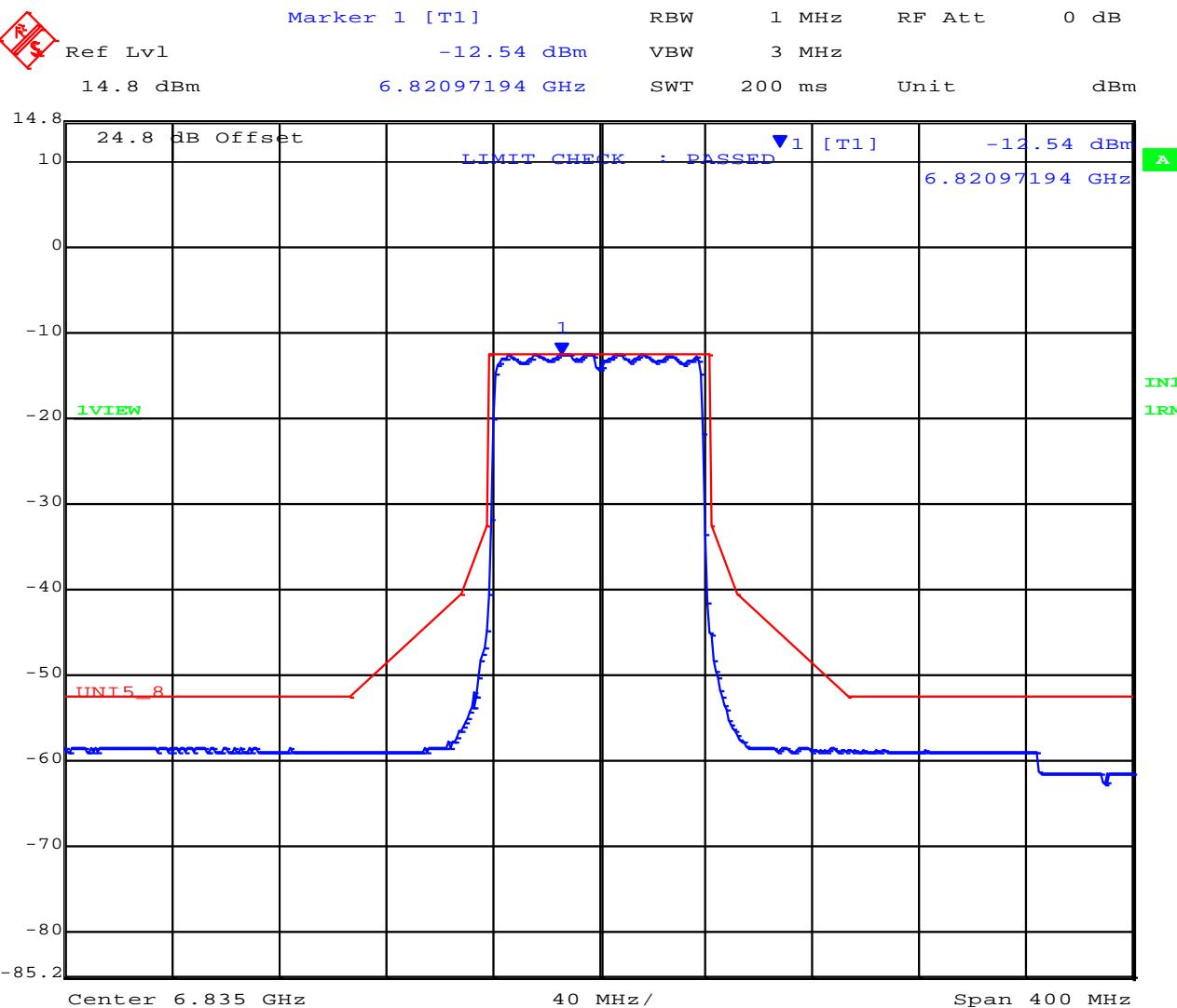
Date: 18.SEP.2024 13:47:02

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SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6835.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



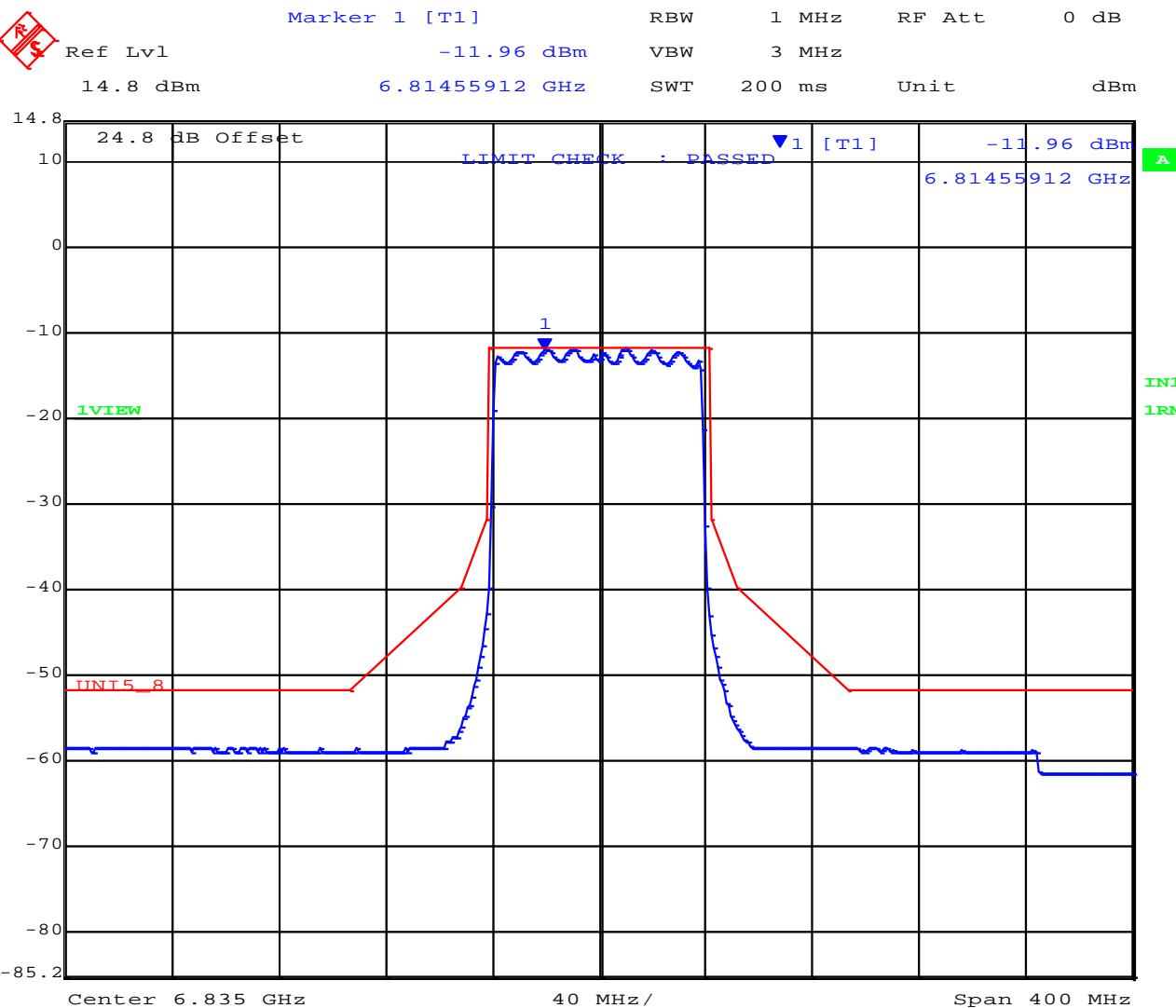
Date: 18.SEP.2024 13:52:15

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SPECTRUM EMISSION MASK



Variant: 80MHz, Channel: 6835.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



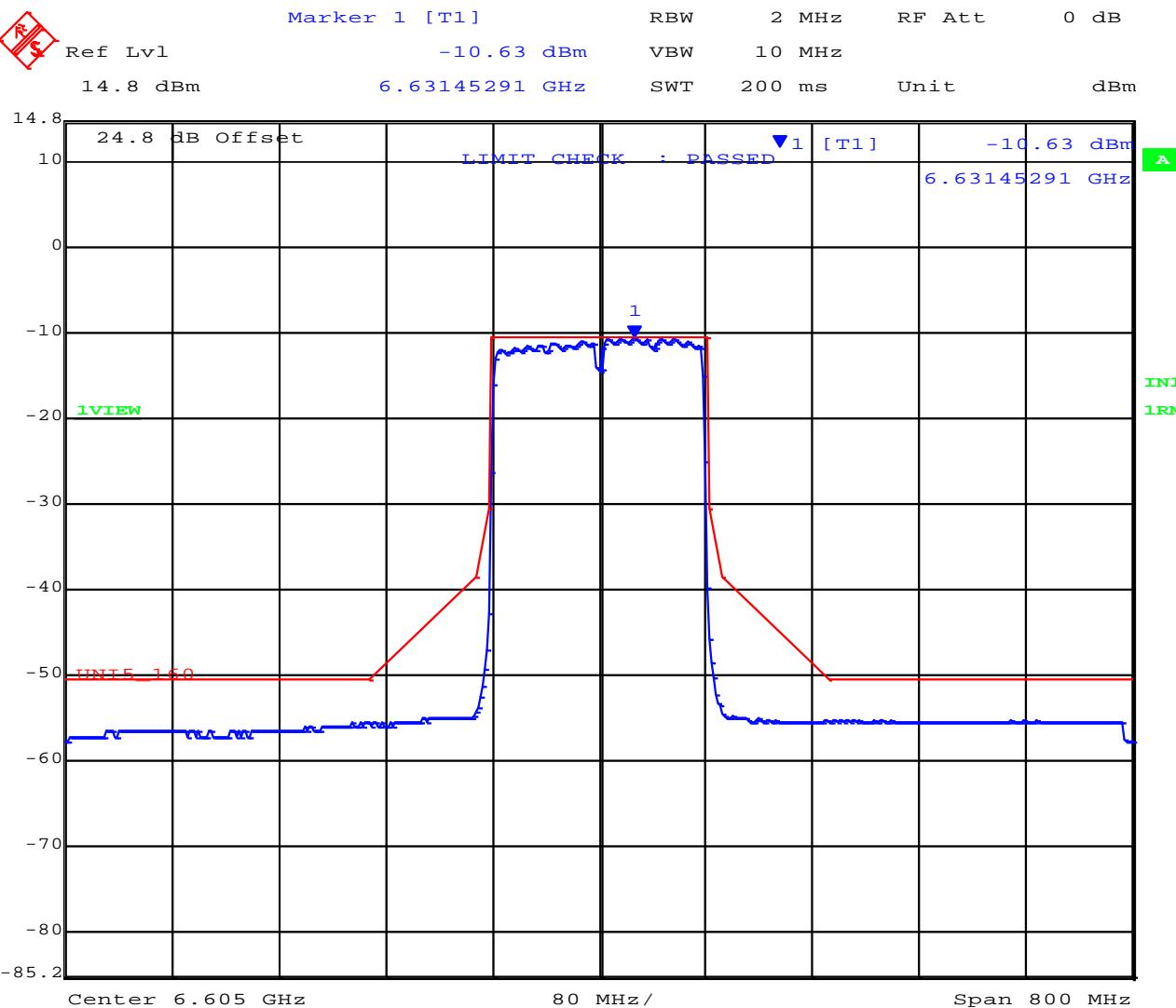
Date: 18.SEP.2024 13:51:33

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SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6605.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



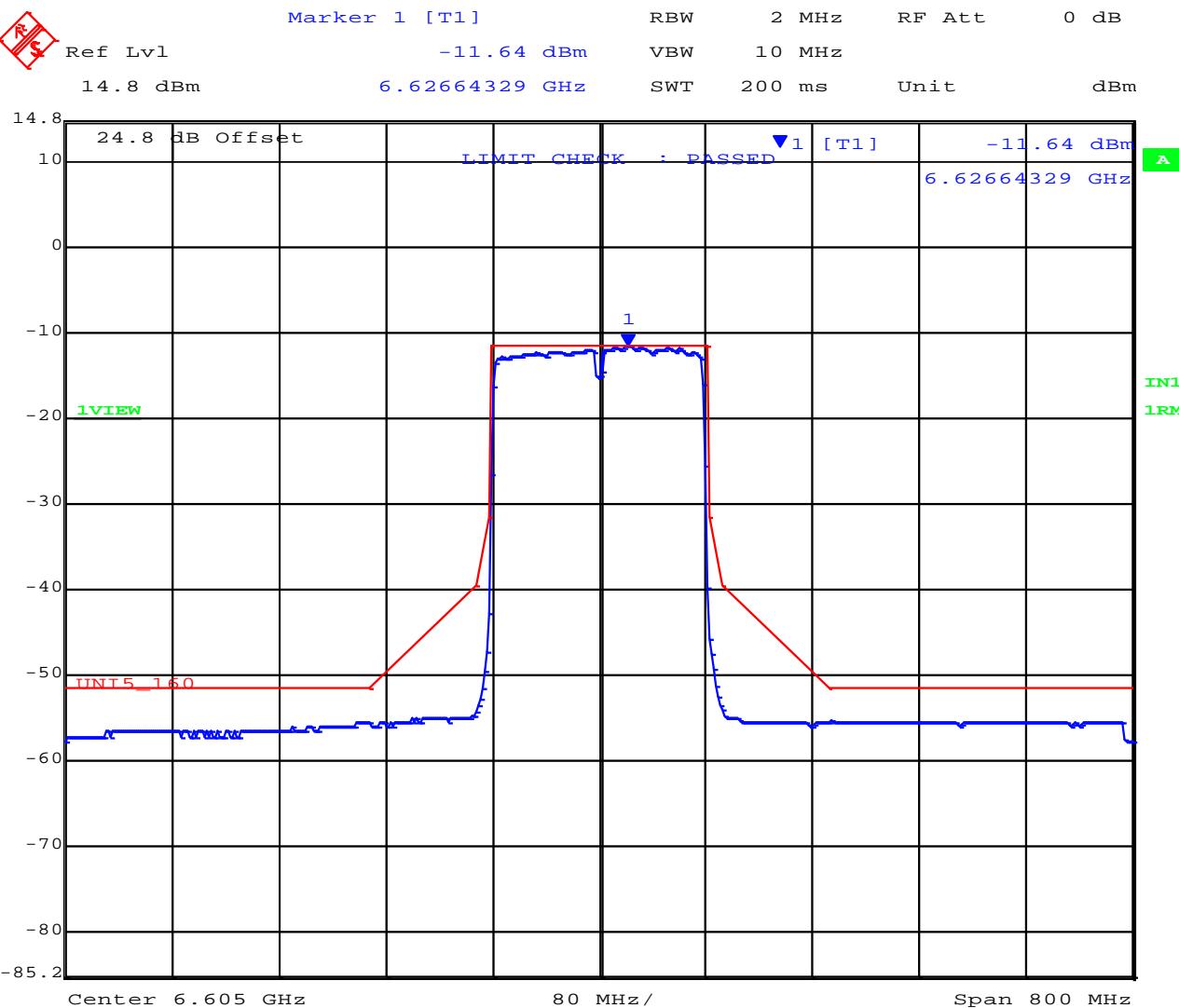
Date: 18.SEP.2024 12:33:14

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SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6605.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



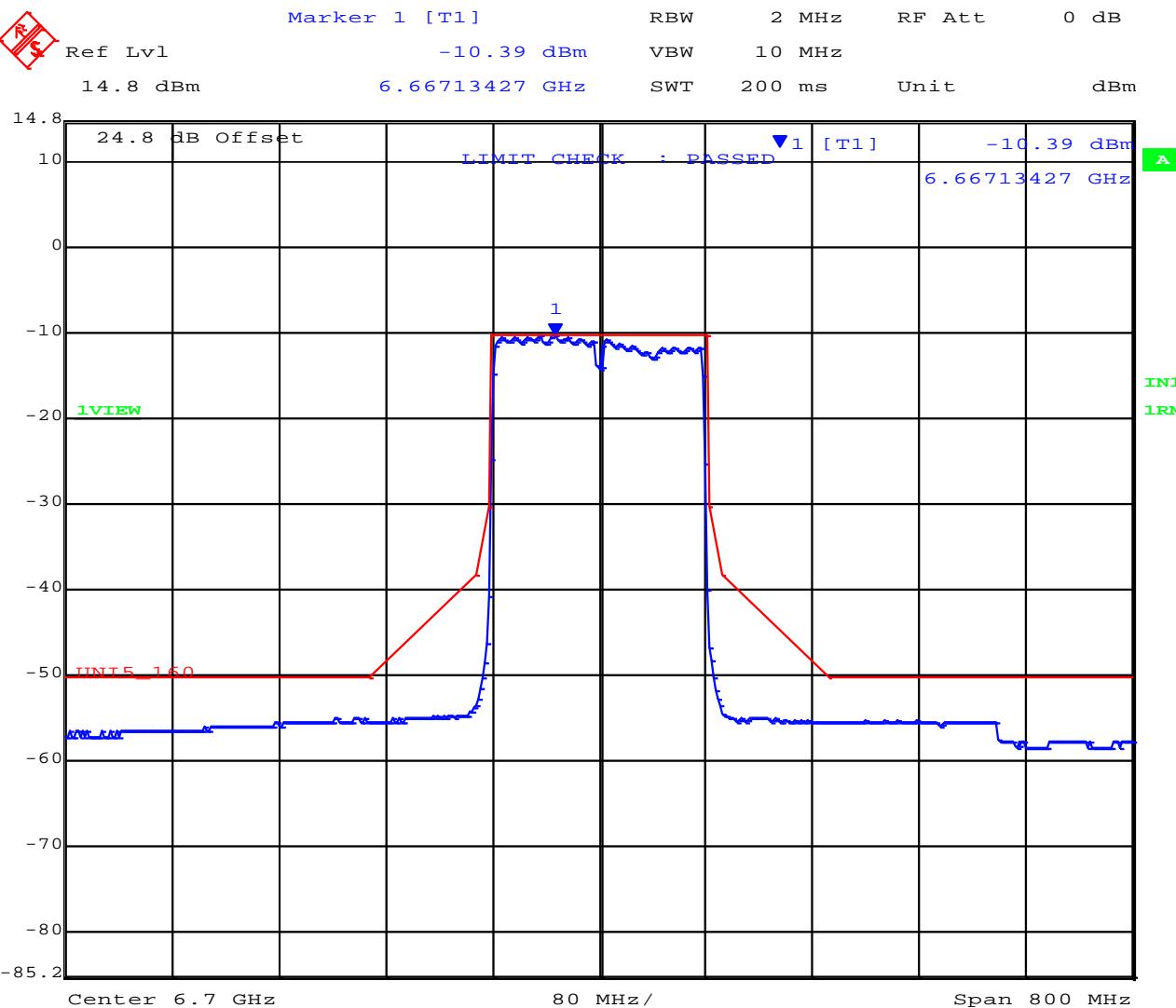
Date: 18.SEP.2024 12:36:12

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SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6700.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



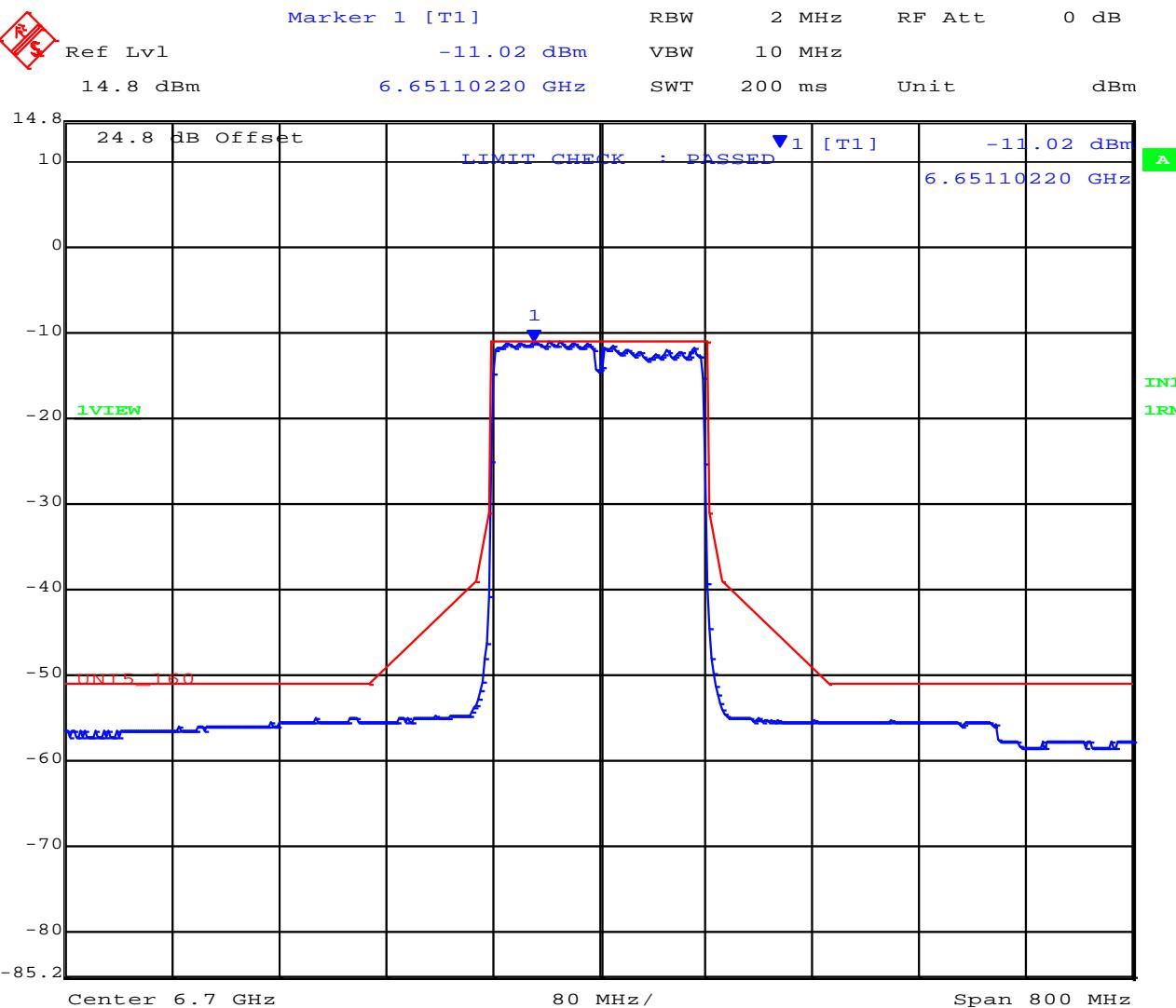
Date: 18.SEP.2024 12:40:57

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SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6700.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



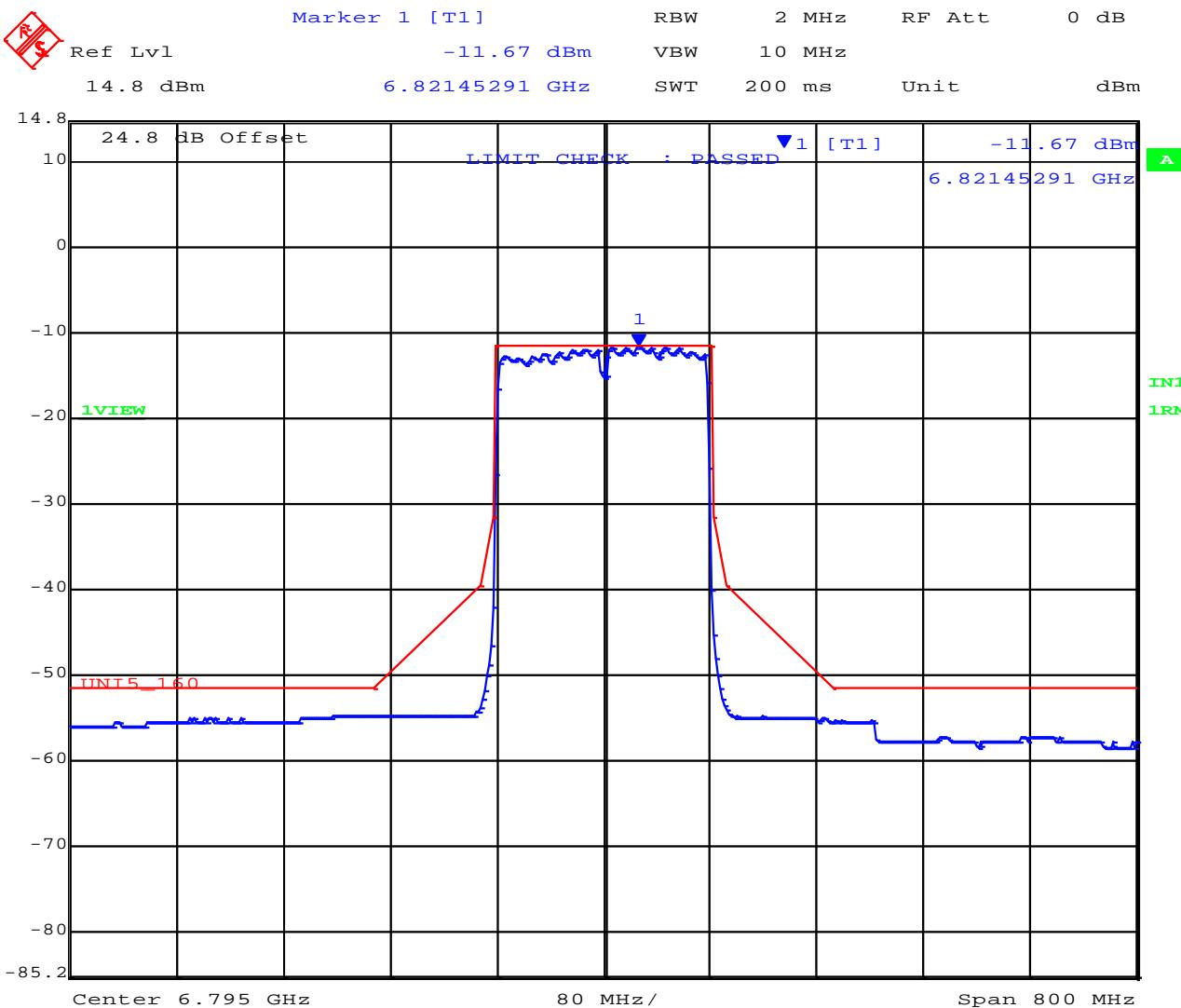
Date: 18.SEP.2024 12:38:55

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SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6795.00 MHz, Chain a, Temp: 20, Voltage: 60 Vdc



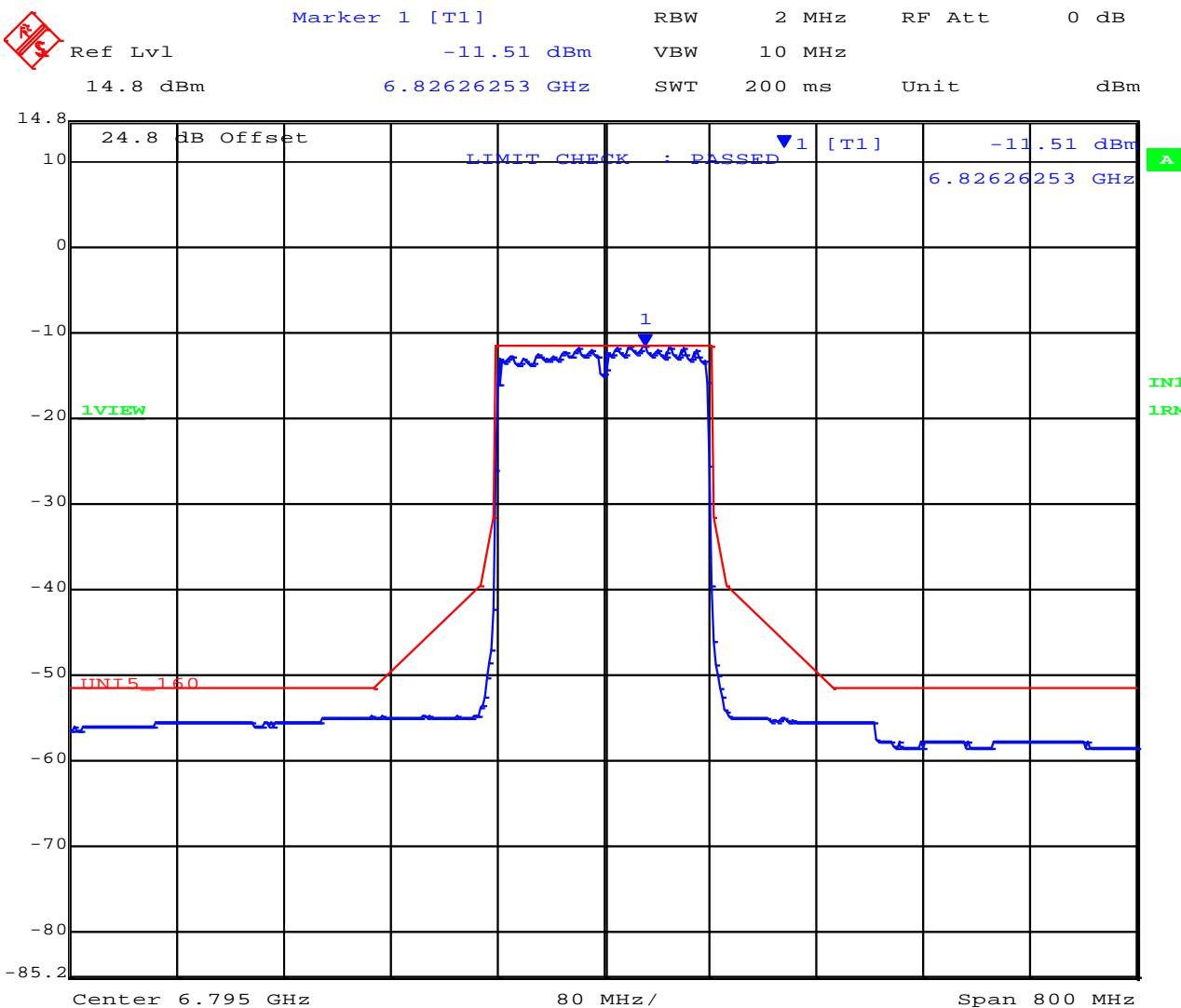
Date: 18.SEP.2024 13:00:41

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SPECTRUM EMISSION MASK



Variant: 160MHz, Channel: 6795.00 MHz, Chain b, Temp: 20, Voltage: 60 Vdc



Date: 18.SEP.2024 13:02:09

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