



## REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 Part 15 Subpart C 15.247 & ISED RSS-247

Report No.: ITRO67-U28 Rev A

**Company:** Itron Inc.

**Model Name:** ERG-7600-008

## REGULATORY COMPLIANCE TEST REPORT

**Company Name:** Itron Inc.

**Model Name:** ERG-7600-008

**To:** FCC CFR 47 Part 15 Subpart C 15.247 & ISED RSS-247

**Test Report Serial No.:** ITRO67-U28 Rev A

This report supersedes: NONE

**Applicant:** Itron Inc.  
2401 North State St.  
Waseca,  
Minnesota 56093  
United States of America

**Issue Date:** 23rd August 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			
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

MRA 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	9th August 2024	Draft report for client review
Draft 2	13 <sup>th</sup> August 2024	Adding PSD to report
Rev A	23rd August 2024	Initial release of test report.
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In the above table the latest report revision will replace all earlier versions.

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

**Manufacturer:** Itron Inc.  
2401 North State St.  
Waseca  
Minnesota 56093  
United States of America

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

**Model:** ERG-7600-008

**Telephone:** +1 925 462 0304

**Type Of Equipment:** RF-based meter data collection solution.

**Fax:** +1 925 462 0306

**S/N's:** Conducted RF: 2935662-22  
Radiated RF: 2935662-13

**Test Date(s):** 26<sup>th</sup> – 28<sup>th</sup> June and 13<sup>th</sup> August 2024  
16<sup>th</sup> – 17<sup>th</sup>, and 19<sup>th</sup> July 2024

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

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

#### **TEST RESULTS**

**FCC CFR 47 Part 15 Subpart C 15.247 & ISED RSS-247**

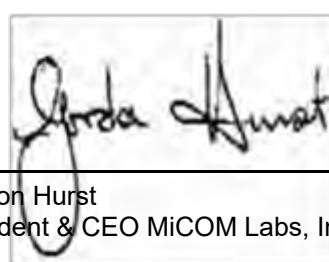
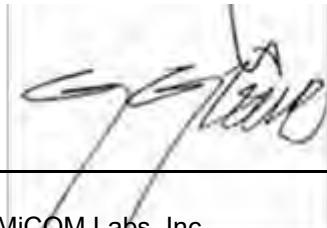
**EQUIPMENT COMPLIES**

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 558074 D01 v05r02	Apr 2019	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC Rules.
II	A2LA	16th April 2024	R105 - Requirement's When Making Reference to A2LA Accreditation Status
III	ANSI C63.10	2020	American National Standard for Testing Unlicensed Wireless Devices
IV	ANSI C63.4	2014	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
V	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
VI	FCC 47 CFR Part 15, Subpart B	Nov 2017	Title 47: Telecommunication PART 15—RADIO FREQUENCY DEVICES, SubPart B; Unintentional Radiators
VII	FCC 47 CFR Part 15.247	Apr 2020	Radio Frequency Devices; Subpart C – Intentional Radiators
VIII	FCC Public Notice DA 00-705	Mar 2000	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
IX	ICES-003	Issue 7; Oct 2020	Information Technology Equipment (Including Digital Apparatus)
X	UKAS M3003	Edition 6 March 2024	The Expression of Uncertainty and Confidence in Measurements
XI	RSS-247 Issue 3	Aug 2023	Digital Transmission Systems (DTSs), Frequency Hopping System (FHSs) and Licence-Exempt Local Area Network (LE-LEN) Devices
XII	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.
XIII	FCC 47 CFR Part 2.1033	Feb 2023	FCC requirements and rules regarding photographs and test setup diagrams.
XIV	UKAS LAB 12	Edition 4 April 2022	The Expression of Uncertainty in Testing

#### **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 Itron Inc. ERG-7600-008 to FCC CFR 47 Part 15 Subpart C 15.247 & ISED RSS-247.
Applicant:	Ittron Inc. 2401 North State St. Waseca, Minnesota 56093, United States of America
Manufacturer:	Ittron Inc.
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Test report reference number:	ITRO67-U28 Draft
Date EUT received:	11 <sup>th</sup> June 2024
Standard(s) applied:	FCC CFR 47 Part 15 Subpart C 15.247 & ISED RSS-247
Dates of test (from - to):	26 <sup>th</sup> – 28 <sup>th</sup> June and 13 <sup>th</sup> August 2024 16 <sup>th</sup> – 17 <sup>th</sup> and 19 <sup>th</sup> July 2024
No of Units Tested:	2
Product Family Name:	500G DM
Model(s):	ERG-7600-008 ERG-7600-007
Location for use:	Indoor/Outdoor
Declared Frequency Range(s):	902 - 928 MHz;
Type of Modulation:	GFSK, OOK
EUT Modes of Operation:	902 - 928 MHz: GFSK, 100kbps, PL 3 (FHSS); GFSK, 10kbps, PL 3 (FHSS); GFSK, 150kbps, PL 2 (Hybrid); GFSK, 150kbps, PL 3 (FHSS); GFSK, 25kbps, PL 3 (FHSS); GFSK, 300kbps PL 2 (Hybrid); GFSK, 300kbps PL 3 (FHSS); GFSK, 37.5 kbps, PL 3 (FHSS); OOK PL 1; OOK PL 3 ;
Declared Nominal Output Power (dBm):	+27
Transmit/Receive Operation:	Transceiver
Rated Input Voltage and Current:	3.6VDC, 0.25A
Operating Temperature Range:	-40°C to +70°C
ITU Emission Designator:	GFSK 100 KBits/s 129KF1D GFSK 10 KBits/s 21K0F1D GFSK 150 KBits/s 309KF1D GFSK 25 KBits/s 32K0F1D GFSK 300 KBits/s 375KF1D GFSK 37.5 KBits/s 77K0F1D OOK 16.38 KBits/s 127KL1D
Equipment Dimensions:	5.38" x 4" x 2.5"
Weight:	1.54 lbs
Hardware Rev:	3
Software Rev:	CSL 10.0.15.0

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

### **Itron Inc. ERG-7600-008**

The scope of the test program was to test the Itron Inc. ERG-7600-008 in the frequency ranges 902 - 928MHz; for compliance against the following specifications:

#### **FCC CFR 47 Part 15 Subpart C 15.247 & ISED RSS-247 (FHSS)**

Radio Frequency Devices; Subpart C – Intentional Radiators

#### **ISED RSS-247**

Digital Transmission Systems (DTSS), Frequency Hopping System (FHSs) and License-Exempt Local Area Network (LE-LEN) Devices

The Itron ERG-7600-008 is also marketed as the following Model Numbers per Manufacturer Declaration (refer to Section 11 of this report)

ERG-7600-007

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

Type (EUT/Support)	Equipment Description	Mfr	Model No.	Serial No.
EUT	RF-based meter data collection solution	Ittron, Inc.	ERG-7600-008	Conducted RF: 2935662-22 Radiated RF: 2935662-13
Laptop Computer	Support	Lenovo	ThinkPad	N/A

### **5.4. Antenna Details**

Type	Manufacturer	Model	Family	Gain (dBi)	BF Gain	Dir BW	X-Pol	Frequency Band (MHz)
integral	Ittron	none	PCB	2.2	-	360	-	902 - 928
BF Gain - Beamforming Gain								
Dir BW - Directional BeamWidth								
X-Pol - Cross Polarization								

### **5.5. Cabling and I/O Ports**

1. NONE.

## 5.6. Test Configurations

Results for the following configurations are provided in this report:

Operational Mode(s) (802.11a/b/g/n/ac)	Data Rate with Highest Power MBit/s	Channel Frequency (MHz)		
		Low	Mid	High
<b>902 - 928 MHz</b>				
GFSK PL 3 (FHSS)	100	902.30	914.60	926.90
GFSK PL 3 (FHSS)	10	902.20	915.00	927.75
GFSK PL 2 (Hybrid)	150	902.40	915.20	927.60
GFSK PL 3 (FHSS)	150	902.40	915.20	927.60
GFSK PL 3 (FHSS)	25	902.20	915.00	927.75
GFSK PL 2 (Hybrid)	300	902.40	915.20	927.60
GFSK PL 3 (FHSS)	300	902.40	915.20	927.60
GFSK PL 3 (FHSS)	37.5	903.00	915.00	926.80
OOK PL 1	16.38	903.00	915.00	926.80
OOK PL 3	16.38	903.00	915.00	926.80

## 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
20 dB & 99% Bandwidth	Complies	<a href="#">View Data</a>
Frequency Hopping Tests	Complies	-
Number of Hopping Channels	Complies	<a href="#">View Data</a>
Channel Separation	Complies	<a href="#">View Data</a>
Output Power	Complies	<a href="#">View Data</a>
Emissions	Complies	-
(1) Conducted Emissions	Complies	-
(i) Conducted Unwanted Spurious Emissions	Complies	<a href="#">View Data</a>
(ii) Conducted Band-Edge Emissions	Complies	<a href="#">View Data</a>
(2) Radiated Emissions	Complies	-
(i) TX Spurious & Restricted Band Emissions	Complies	<a href="#">View Data</a>

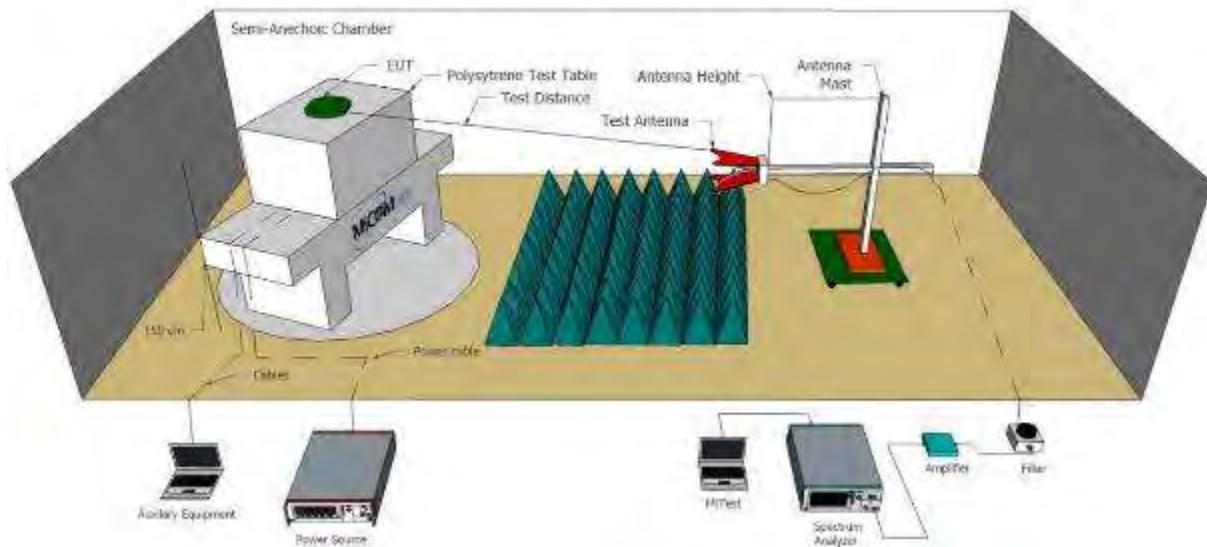
**Note:** Dwell Time and Channel Occupancy were not tested as part of this test program, these were declared for normal network operation by Itron. See Section 10 of this report for additional information.

## 7. TEST EQUIPMENT CONFIGURATION(S)

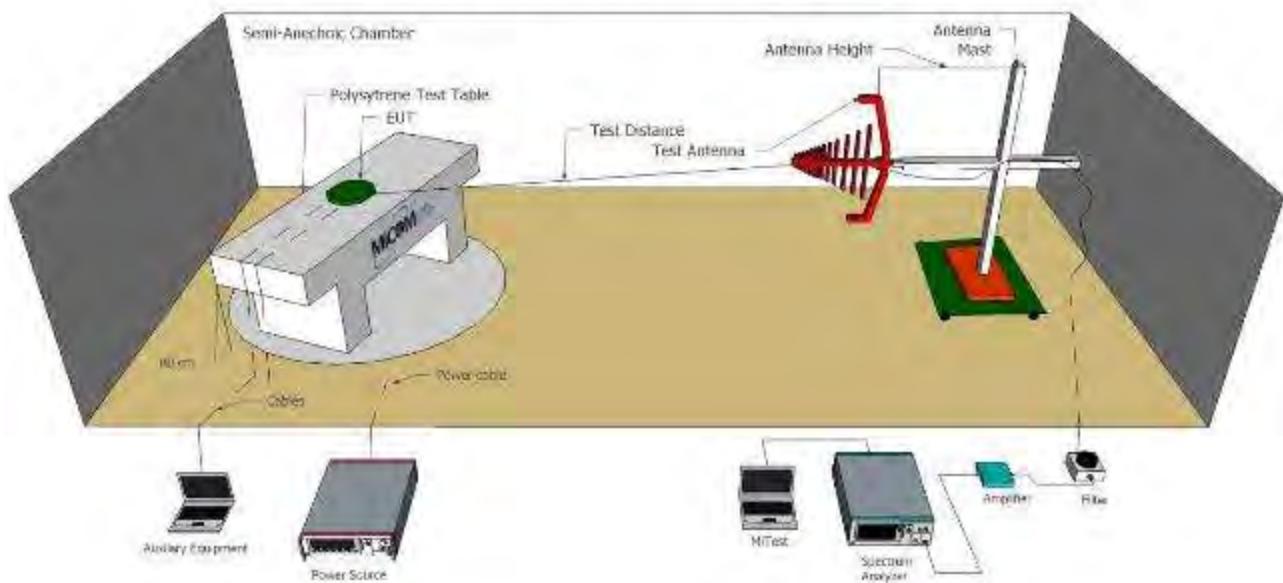
### 7.1. Radiated

Radiated emissions above and below 1GHz.

Radiated Emissions Above 1GHz Test Setup



Radiated Emissions Below 1GHz Test Setup



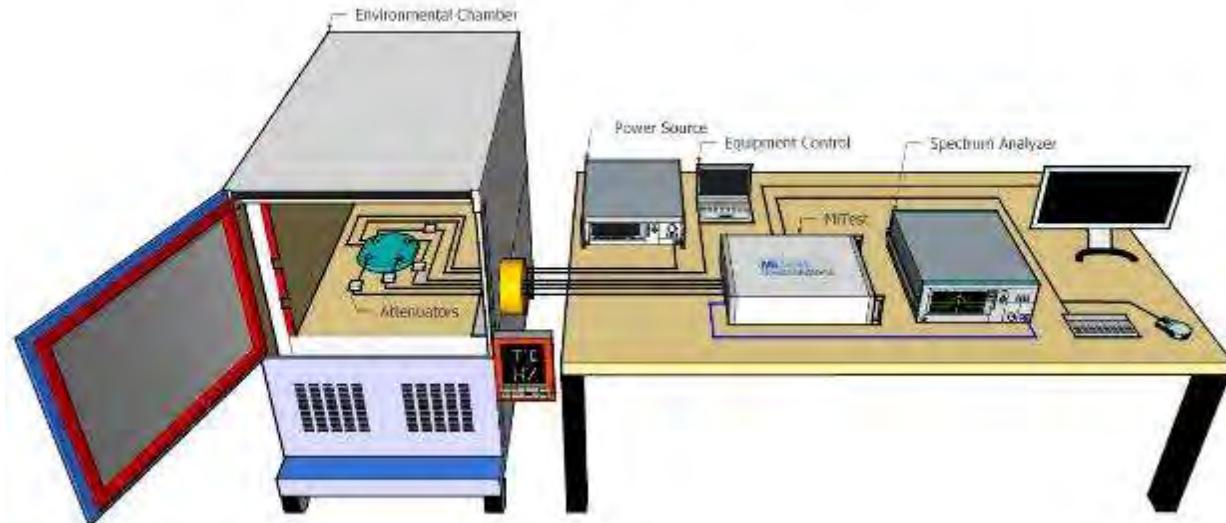


Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CU101	04R08507	Not Required
266	10 Hz to 50GHz MXA Signal Analyzer	Keysight	N9020B	MY60110791	25 Jul 2025
285	DC Power Supply	Keysight	E36155A	MY63000156	4 Dec 2024
298	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
341	900MHz Notch Filter	EWT	EWT-14-0199	H1	13 Sep 2024
346	1.6 TO 10GHz High Pass Filter	EWT	EWT-57-0112	H1	13 Sep 2024
373	26III RMS Multimeter	Fluke	Fluke 26 series III	76080720	29 Sep 2024
377	Band Rejection Filter 5150 to 5880MHz	Microtronics	BRM50716	034	13 Sep 2024
396	2.4 GHz Notch Filter	Microtronics	BRM50701	001	13 Sep 2024
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	Rad Emissions Test Software Version 1.0	447	Not Required
462	Schwarzbeck cable from Antenna to Amplifier.	Schwarzbeck	AK 9513	462	18 Sep 2024
463	Schwarzbeck cable from Amplifier to Bulkhead.	Schwarzbeck	AK 9513	463	18 Sep 2024
464	Schwarzbeck cable from Bulkhead to Receiver	Schwarzbeck	AK 9513	464	16 Sep 2024
465	Low Pass Filter DC-	Mini-Circuits	NLP-1200+	VUU01901402	14 Sep 2024

	1000 MHz				
480	Cable - Bulkhead to Amp	SRC Haverhill	157-3050360	480	18 Sep 2024
481	Cable - Bulkhead to Receiver	SRC Haverhill	151-3050787	481	18 Sep 2024
510	Barometer/Termometer	Digi Sense	68000-49	170871375	4 Jan 2026
554	Precision SMA Cable	Fairview Microwave	SCE18060101-400CM	554	18 Sep 2024
555	Rhode & Schwarz Receiver (Firmware Version : 3.10 SP1)	Rhode & Schwarz	ESW 44	101893	28 Jun 2025
578	DC Power Supply 0 - 60 V, 0 - 15 A	HP	6274B	2537A-08192	Not Required
87	Uninterruptible Power Supply	Falcon Electric	ED2000-1/2LC	F3471 02/01	Cal when used
CC05	Confidence Check	MiCOM	CC05	None	11 Nov 2024

## 7.2. Conducted Test Setup

MiTest Automated Test System



A full system calibration was performed on the test station and any resulting system losses (or gains) were considered 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	Boonton	55006	9181	12 Dec 2024



	Sensor				
445	PoE Injector	D-Link	DPE-101GL	QTAH1E2000625	Not Required
461	Spectrum Analyzer	Agilent	E4440A	MY46185537	27 Sep 2024
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

## **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. 20 dB & 99% Bandwidth

Conducted Test Conditions for 20 dB and 99% Bandwidth			
<b>Standard:</b>	FCC CFR 47:15.247 ISED RSS-247	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	20 dB and 99 % Bandwidth	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.247 (a)(1)(i)/(ii) Section 5.1	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

#### Test Procedure for 20 dB and 99% Bandwidth Measurement

The bandwidth at 20 dB and 99 % was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

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 specified in this document.

#### Limits for 20 dB and 99% Bandwidth

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

(ii) Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.



**Equipment Configuration for 20 dB 99% Bandwidth**

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>	<b>MHz</b>		
902.3	0.129				0.129	0.129	0.5	-0.37
914.6	0.129				0.129	0.129	0.5	-0.37
926.9	0.127				0.127	0.127	0.5	-0.37

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
902.3	0.112				0.112			
914.6	0.113				0.113			
926.9	0.111				0.111			

**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 20 dB 99% Bandwidth**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>			<b>MHz</b>	<b>MHz</b>
902.2	<a href="#">0.021</a>				0.021	0.021	0.5	-0.48
915.0	<a href="#">0.021</a>				0.021	0.021	0.5	-0.48
927.8	<a href="#">0.021</a>				0.021	0.021	0.5	-0.48

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
902.2	<a href="#">0.020</a>				0.020			
915.0	<a href="#">0.020</a>				0.020			
927.8	<a href="#">0.020</a>				0.020			

**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 20 dB 99% Bandwidth

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

Test Measurement Results

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>	<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
902.4	0.184				0.184	0.184	0.5	-0.32
915.2	0.183				0.183	0.183	0.5	-0.32
927.6	0.184				0.184	0.184	0.5	-0.32

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>	<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
902.4	0.180				0.180			
915.2	0.178				0.178			
927.6	0.178				0.178			

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 20 dB 99% Bandwidth**

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>	<b>MHz</b>		
902.4	0.306				0.306	0.306	0.5	-0.19
915.2	0.307				0.307	0.307	0.5	-0.19
927.6	0.309				0.309	0.309	0.5	-0.19

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
902.4	0.278				0.278			
915.2	0.282				0.282			
927.6	0.274				0.274			

**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 20 dB 99% Bandwidth**

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>	<b>MHz</b>		
902.2	0.032				0.032	0.032	0.5	-0.47
915.0	0.032				0.032	0.032	0.5	-0.47
927.8	0.032				0.032	0.032	0.5	-0.47

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
902.2	0.028				0.028			
915.0	0.029				0.029			
927.8	0.028				0.028			

**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 20 dB 99% Bandwidth

<b>Variant:</b>	300kbps PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

Test Measurement Results

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>	<b>MHz</b>		
902.4	<a href="#">0.368</a>				0.368	0.368	0.5	-0.13
915.2	<a href="#">0.369</a>				0.369	0.369	0.5	-0.13
927.6	<a href="#">0.368</a>				0.368	0.368	0.5	-0.13

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>MHz</b>			
902.4	<a href="#">0.322</a>				0.322			
915.2	<a href="#">0.319</a>				0.319			
927.6	<a href="#">0.322</a>				0.322			

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 20 dB 99% Bandwidth**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>Highest</b>	<b>Lowest</b>	<b>MHz</b>	<b>MHz</b>
902.4	<a href="#">0.375</a>				0.375	0.375	0.5	-0.13
915.2	<a href="#">0.372</a>				0.372	0.372	0.5	-0.13
927.6	<a href="#">0.369</a>				0.369	0.369	0.5	-0.13

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
902.4	<a href="#">0.325</a>				0.325			
915.2	<a href="#">0.323</a>				0.323			
927.6	<a href="#">0.322</a>				0.322			

**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 20 dB 99% Bandwidth**

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
<b>903.0</b>	<a href="#">0.068</a>				0.068	0.068	0.5	-0.43
<b>915.0</b>	<a href="#">0.066</a>				0.066	0.066	0.5	-0.43
<b>926.8</b>	<a href="#">0.077</a>				0.077	0.077	0.5	-0.42

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
<b>903.0</b>	<a href="#">0.064</a>				0.064			
<b>915.0</b>	<a href="#">0.063</a>				0.063			
<b>926.8</b>	<a href="#">0.066</a>				0.066			

**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 20 dB 99% Bandwidth**

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
903.0	0.056				0.056	0.056	0.5	-0.44
915.0	0.062				0.062	0.062	0.5	-0.44
926.8	0.062				0.062	0.062	0.5	-0.44

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>		
	<b>Port(s)</b>						
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>			
903.0	0.127				0.127		
915.0	0.126				0.126		
926.8	0.123				0.123		

**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 20 dB 99% Bandwidth**

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured 20 dB Bandwidth (MHz)</b>				<b>20 dB Bandwidth (MHz)</b>		<b>Limit</b>	<b>Lowest Margin</b>
	<b>Port(s)</b>				<b>Highest</b>	<b>Lowest</b>		
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
903.0	<a href="#">0.054</a>				0.054	0.054	0.5	-0.45
915.0	<a href="#">0.053</a>				0.053	0.053	0.5	-0.45
926.8	<a href="#">0.053</a>				0.053	0.053	0.5	-0.45

<b>Test Frequency</b>	<b>Measured 99% Bandwidth (MHz)</b>				<b>Maximum 99% Bandwidth (MHz)</b>			
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>				
903.0	<a href="#">0.112</a>				0.112			
915.0	<a href="#">0.113</a>				0.113			
926.8	<a href="#">0.112</a>				0.112			

**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).

## 9.2. Frequency Hopping Tests

Conducted Test Conditions for Frequency Hopping Measurements			
<b>Standard:</b>	FCC CFR 47:15.247 ISED RSS-247	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	Frequency Hopping Tests	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.247 (a)(1)(i)/(ii) Section 5.1	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References, FCC Public Notice DA 00-705		

### Test Procedure for Frequency Hopping Measurements

These tests cover the following measurements:

- i) channel separation
- ii) channel occupancy
- iii) dwell time
- iv) number of hopping frequencies

Frequency hopping testing was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency or hopping mode.

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 specified in this document.

### Limits for Frequency Hopping Measurements

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

(ii) Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### 9.2.1. Number of Hopping Channels

Equipment Configuration for Number of Hopping Channels			
<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

Test Measurement Results
--------------------------

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>26</u>	--	--
910.0-920.0	<u>33</u>	--	--
920.0-9280.0	<u>24</u>	--	--
<b>Total number of Hops</b>	<b>83</b>	<b>50</b>	<b>Pass</b>

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 Number of Hopping Channels**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-928.0	<a href="#">512</a>	--	--
Total number of Hops	<b>512</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>20</u>	--	--
910.0-920.0	<u>24</u>	--	--
920.0-928.0	<u>20</u>	--	--
<b>Total number of Hops</b>	<b>64</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>20</u>	--	--
910.0-920.0	<u>24</u>	--	--
920.0-928.0	<u>20</u>	--	--
<b>Total number of Hops</b>	<b>64</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-928.0	<a href="#">512</a>	--	--
Total number of Hops	<b>512</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>20</u>	--	--
910.0-920.0	<u>24</u>	--	--
920.0-928.0	<u>20</u>	--	--
<b>Total number of Hops</b>	<b>64</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>35</u>	--	--
910.0-920.0	<u>50</u>	--	--
920.0-928.0	<u>35</u>	--	--
<b>Total number of Hops</b>	<b>120</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	OOK PL 3	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>35</u>	--	--
910.0-920.0	<u>50</u>	--	--
920.0-928.0	<u>35</u>	--	--
<b>Total number of Hops</b>	<b>120</b>	<b>50</b>	<b>Pass</b>

**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 Number of Hopping Channels**

<b>Variant:</b>	OOK PL1	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Frequency Range (MHz)	Number of Hopping Channels	Limit	Pass / Fail
902.0-910.0	<u>35</u>	--	--
910.0-920.0	<u>50</u>	--	--
920.0-928.0	<u>35</u>	--	--
<b>Total number of Hops</b>	<b>120</b>	<b>50</b>	<b>Pass</b>

**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).

### 9.2.2. Channel Separation

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
914.6	<a href="#">302.605</a>	0.129	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.0	<a href="#">49.699</a>	0.025	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.2	<a href="#">399.800</a>	0.184	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.2	<a href="#">399.800</a>	0.307	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.0	<a href="#">49.699</a>	0.032	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.2	<a href="#">399.800</a>	0.375	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 Channel Separation**

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.0	<a href="#">200.401</a>	0.068	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	OOK PL 3	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.0	<a href="#">199.599</a>	0.062	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).



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Channel Separation

<b>Variant:</b>	OOK PL1	<b>Antenna:</b>	Not Applicable
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>Duty Cycle (%):</b>	100.0	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Center Frequency (MHz)	Chan Separation (kHz)	Limit (MHz)	Pass / Fail
915.0	<a href="#">202.004</a>	0.054	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).

### 9.3. Output Power

Conducted Test Conditions for Fundamental Emission Output Power			
<b>Standard:</b>	FCC CFR 47:15.247 ISED RSS-247	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	Output Power	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.247 (a)(1), (b)(1)/(2)/(3) Section 5.4	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

#### Test Procedure for Fundamental Emission Output Power Measurement

In the case of average power measurements an average power sensor was utilized.

For peak power measurements the spectrum analyzer built-in power function was used to integrate peak power over the 20 dB bandwidth.

Testing was performed under ambient conditions, nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured, summed ( $\Sigma$ ) and reported.

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

##### Supporting Information

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

A = Total Power [10\*Log10 (10<sup>a/10</sup> + 10<sup>b/10</sup> + 10<sup>c/10</sup> + 10<sup>d/10</sup>)]

G = Antenna Gain

Y = Beamforming Gain

x = Duty Cycle (average power measurements only)

#### Limits for Fundamental Emission Output Power

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following for frequency hopping systems:

(1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

(2) For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time



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intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.



**Equipment Configuration for Output Power Peak**

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power <math>\Sigma</math> Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.3</b>	24.00				24.00	30.00	-6.00	27.00
<b>914.6</b>	23.81				23.81	30.00	-6.19	27.00
<b>926.9</b>	23.20				23.20	30.00	-6.80	27.00

**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 Output Power Peak**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power Σ Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.2</b>	24.08				24.08	30.00	-5.92	27.00
<b>915.0</b>	23.76				23.76	30.00	-6.24	27.00
<b>927.8</b>	23.11				23.11	30.00	-6.89	27.00

**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 Output Power Peak**

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power <math>\Sigma</math> Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.4</b>	11.62				11.62	30.00	-18.38	16.0
<b>915.2</b>	10.80				10.80	30.00	-19.20	16.0
<b>927.6</b>	9.31				9.31	30.00	-20.69	16.0

**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 Output Power Peak**

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power Σ Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.4</b>	24.00				24.00	30.00	-6.00	27.00
<b>915.2</b>	23.71				23.71	30.00	-6.29	27.00
<b>927.6</b>	23.08				23.08	30.00	-6.92	27.00

**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 Output Power Peak**

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power <math>\Sigma</math> Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.2</b>	24.02				24.02	30.00	-5.98	27.00
<b>915.0</b>	23.75				23.75	30.00	-6.25	27.00
<b>927.8</b>	23.11				23.11	30.00	-6.89	27.00

**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 Output Power Peak**

<b>Variant:</b>	300kbps PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power <math>\Sigma</math> Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.4</b>	11.51				11.51	30.00	-18.49	16.0
<b>915.2</b>	10.67				10.67	30.00	-19.33	16.0
<b>927.6</b>	9.24				9.24	30.00	-20.76	16.0

**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 Output Power Peak**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power Σ Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>902.4</b>	24.04				24.04	30.00	-5.96	27.00
<b>915.2</b>	23.76				23.76	30.00	-6.24	27.00
<b>927.6</b>	23.07				23.07	30.00	-6.93	27.00

**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 Output Power Peak**

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power Σ Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>903.0</b>	24.05				24.05	30.00	-5.95	27.00
<b>915.0</b>	23.87				23.87	30.00	-6.13	27.00
<b>926.8</b>	23.17				23.17	30.00	-6.83	27.00

**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 Output Power Peak**

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power <math>\Sigma</math> Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>903.0</b>	25.11				25.11	30.00	-4.89	27.00
<b>915.0</b>	24.61				24.61	30.00	-5.39	27.00
<b>926.8</b>	23.82				23.82	30.00	-6.18	27.00

**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 Output Power Peak**

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Measured Output Power (dBm)</b>				<b>Calculated Total Power Σ Port(s)</b>	<b>Limit</b>	<b>Margin</b>	<b>EUT Power Setting</b>
	<b>Port(s)</b>							
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>	
<b>903.0</b>	8.16				8.16	30.00	-21.84	10.0
<b>915.0</b>	7.87				7.87	30.00	-22.13	10.0
<b>926.8</b>	7.29				7.29	30.00	-22.71	10.0

**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.

## 9.4. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
<b>Standard:</b>	FCC CFR 47:15.247	<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>	15.247 (f)	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

### Test Procedure for Power Spectral Density

The transmitter output was connected to a spectrum analyzer and the measured made in a 3 kHz resolution bandwidth using the analyzer auto-coupled sweep-time. A peak value was found over the full emission bandwidth and the spectrum downloaded 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.

Testing was performed under ambient conditions at nominal voltage only.

Test configuration and setup used for the measurement was per the Conducted Test Set-up 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 the spectrum in some antenna port 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.

#### Sub section (f)

For the purposes of this section, hybrid systems are those that employ a combination of both frequency hopping and digital modulation techniques. The frequency hopping operation of the hybrid system, with the direct sequence or digital modulation operation turned-off, shall have an average time of occupancy on any frequency not to exceed 0.4 seconds within a time period in seconds equal to the number of hopping frequencies employed multiplied by 0.4. The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### Supporting Information

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

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

$x = \text{Duty Cycle}$

#### Limits Power Spectral Density

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Power Spectral Density - Peak

<b>Variant:</b>	PCB-1651-001 v3	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>	Power Level 2		

#### Test Measurement Results

<b>Test Frequency</b>	<b>Measured Power Spectral Density</b>				<b>Amplitude Summation</b>	<b>Limit</b>	<b>Margin</b>
	<b>Port(s) (dBm/3KHz)</b>						
<b>MHz</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>dBm/3KHz</b>	<b>dBm/3KHz</b>	<b>dB</b>
902.4	<a href="#">4.954</a>				<a href="#">4.954</a>	8.0	-3.0
915.2	<a href="#">2.791</a>				<a href="#">2.791</a>	8.0	-5.2
927.6	<a href="#">2.621</a>				<a href="#">2.621</a>	8.0	-5.4

#### 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 Power Spectral Density - Peak

<b>Variant:</b>	PCB-1651-001 v3	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	2.23
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Engineering Test Notes:</b>	Power Level 2		

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Amplitude Summation	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
902.4	<a href="#">1.346</a>				<a href="#">1.346</a>	8.0	-6.7
915.2	<a href="#">0.480</a>				<a href="#">0.480</a>	8.0	-7.5
927.6	<a href="#">2.277</a>				<a href="#">2.277</a>	8.0	-5.7

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).

## 9.5. Emissions

### 9.5.1. Conducted Emissions

Conducted Test Conditions for Transmitter Conducted Spurious and Band-Edge Emissions			
<b>Standard:</b>	FCC CFR 47:15.247 ISED RSS-247	<b>Ambient Temp. (°C):</b>	24.0 - 27.5
<b>Test Heading:</b>	Transmitter Conducted Spurious and Band-Edge Emissions	<b>Rel. Humidity (%):</b>	32 - 45
<b>Standard Section(s):</b>	15.247 (d) Section 5.5	<b>Pressure (mBars):</b>	999 - 1001
<b>Reference Document(s):</b>	See Normative References		

#### Test Procedure for Transmitter Conducted Spurious and Band-Edge Emissions Measurement

Transmitter Conducted Spurious and Band-Edge emissions were measured at a limit of 30 dBc (average detector) or 20 dBc (peak detector) below the highest in-band spectral density measured with a spectrum analyzer connected to the antenna terminal. Measurements were made while EUT was operating in transmit mode of operation at the appropriate centre frequency closest to the band-edge. Emissions were maximized during the measurement and limits derived from the peak spectral power and drawn on each plot.

Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. Testing was performed under ambient conditions at nominal voltage only.

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

#### Limits Transmitter Conducted Spurious and Band-Edge Emissions

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 9.5.1.1. Conducted Unwanted Spurious Emissions

#### Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Unwanted Emissions Peak (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
902.3	30.0 - 10000.0	<a href="#">-29.868</a>	3.74						
914.6	30.0 - 10000.0	<a href="#">-29.793</a>	3.78						
926.9	30.0 - 10000.0	<a href="#">-29.293</a>	2.80						

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
<b>902.2</b>	30.0 - 10000.0	<a href="#">-29.887</a>	3.81						
<b>915.0</b>	30.0 - 10000.0	<a href="#">-29.801</a>	3.72						
<b>927.8</b>	30.0 - 10000.0	<a href="#">-28.607</a>	3.02						

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

Test Measurement Results

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
902.4	30.0 - 10000.0	<a href="#">-31.634</a>	-8.66						
915.2	30.0 - 10000.0	<a href="#">-31.939</a>	-9.32						
927.6	30.0 - 10000.0	<a href="#">-31.508</a>	-10.73						

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Unwanted Emissions Peak**

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
902.4	30.0 - 10000.0	<a href="#">-30.027</a>	3.63						
915.2	30.0 - 10000.0	<a href="#">-30.092</a>	3.60						
927.6	30.0 - 10000.0	<a href="#">-29.824</a>	2.83						

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

Test Measurement Results

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
<b>902.2</b>	30.0 - 10000.0	<a href="#">-29.683</a>	3.66						
<b>915.0</b>	30.0 - 10000.0	<a href="#">-29.714</a>	3.61						
<b>927.8</b>	30.0 - 10000.0	<a href="#">-28.536</a>	3.03						

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	300kbps PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
902.4	30.0 - 10000.0	<a href="#">-32.232</a>	-8.81						
915.2	30.0 - 10000.0	<a href="#">-31.485</a>	-9.60						
927.6	30.0 - 10000.0	<a href="#">-31.589</a>	-11.03						

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

Test Measurement Results

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
902.4	30.0 - 10000.0	<a href="#">-30.194</a>	3.55						
915.2	30.0 - 10000.0	<a href="#">-31.182</a>	3.53						
927.6	30.0 - 10000.0	<a href="#">-28.626</a>	2.62						

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Unwanted Emissions Peak

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Test Frequency</b>	<b>Frequency Range</b>	<b>Unwanted Emissions Peak (dBm)</b>							
		<b>Port a</b>		<b>Port b</b>		<b>Port c</b>		<b>Port d</b>	
<b>MHz</b>	<b>MHz</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>	<b>SE</b>	<b>Limit</b>
903.0	30.0 - 10000.0	<a href="#">-29.000</a>	3.81						
915.0	30.0 - 10000.0	<a href="#">-29.500</a>	3.82						
926.8	30.0 - 10000.0	<a href="#">-28.469</a>	2.79						

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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

**Equipment Configuration for Unwanted Emissions Peak**

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Frequency Range	Unwanted Emissions Peak (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
903.0	30.0 - 10000.0	<a href="#">-30.525</a>	4.23						
915.0	30.0 - 10000.0	<a href="#">-30.963</a>	3.48						
926.8	30.0 - 10000.0	<a href="#">-28.742</a>	3.42						

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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

**Equipment Configuration for Unwanted Emissions Peak**

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

Test Frequency	Frequency Range	Unwanted Emissions Peak (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
903.0	30.0 - 10000.0	<a href="#">-31.636</a>	-12.54						
915.0	30.0 - 10000.0	<a href="#">-31.144</a>	-12.53						
926.8	30.0 - 10000.0	<a href="#">-30.725</a>	-15.63						

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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

### 9.5.1.2. Conducted Band-Edge Emissions

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	902.3 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>			<b>Revised Limit</b>	<b>Margin</b>
	<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Amplitude (dBm)</b>	<b>M2A Frequency (MHz)</b>
a	<a href="#">-10.35</a>	4.24	902.10		-0.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.2 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>(MHz)</b>
a		<u>-0.56</u>	4.11	902.00	-0.114

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	902.4 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	(MHz)
a		<a href="#">-25.92</a>	-8.30	902.10	-0.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	902.4 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<a href="#">-14.56</a>	4.06	902.10	
					-0.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	902.2 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<u>-0.62</u>	4.00	902.00	
					(MHz)
					-0.010

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.4 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M1 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#"><u>-11.08</u></a>	4.03	902.10		(MHz)

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	903.0 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	(MHz)
a		<a href="#">-31.93</a>	4.40	902.80	-0.800

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	903.0 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
a		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<a href="#">-19.80</a>	4.60	902.80	
					-0.800

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	903.0 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
a		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<a href="#">-33.04</a>	-12.28	902.80	

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	902.3 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
a		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
		<a href="#">-12.70</a>	4.13	902.10	
					-0.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.2 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 9905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>(MHz)</b>
a		<u>-2.12</u>	4.15	902.00	-0.010

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS		
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB		

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

**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.4 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>			<b>Revised Limit</b>	<b>Margin</b>
	<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Amplitude (dBm)</b>	<b>M2A Frequency (MHz)</b>
a	<a href="#"><u>-30.10</u></a>	-8.19	902.20		-0.200

**Traceability to Industry Recognized Test Methodologies**

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
<b>Measurement Uncertainty:</b>	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.4 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>(MHz)</b>
a		<u>-16.84</u>	4.04	902.10	-0.100

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.2 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>(MHz)</b>
a		<u>-2.02</u>	4.03	902.00	-0.114

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak

<b>Variant:</b>	300kbps PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	902.4 MHz					
<b>Band-Edge Frequency:</b>	902.0 MHz					
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz					
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin	
		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	
a		<a href="#"><u>-22.38</u></a>	-8.46	902.10		-0.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	902.4 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M1 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#">-10.01</a>	3.98	902.10		(MHz)

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	903.0 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<a href="#">-33.71</a>	4.29	902.80	

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	903.0 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>(MHz)</b>
a		<u>-18.66</u>	4.59	902.80	-0.800

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Low Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	903.0 MHz				
<b>Band-Edge Frequency:</b>	902.0 MHz				
<b>Test Frequency Range:</b>	875.0 - 905.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M1 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>(MHz)</b>
a		<a href="#"><u>-32.39</u></a>	-12.15	902.80	-0.800

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS		
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB		

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	926.9 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#">-37.19</a>	3.45	927.10		(MHz)

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>		<b>Margin</b>	
Port(s)	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)
	<u>-5.52</u>	3.47	927.90		
a					-0.100

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
		<b>M3 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Amplitude (dBm)</b>
a	<a href="#"><u>-29.56</u></a>	-10.47	927.80		-0.200

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#"><u>-16.07</u></a>	3.23	927.90		(MHz)
					-0.100

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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

**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>			<b>Revised Limit</b>	<b>Margin</b>
	<b>M3 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Amplitude (dBm)</b>	<b>M2A Frequency (MHz)</b>
a	<u>-7.52</u>	3.35	927.90		(MHz)
					-0.100

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#"><u>-10.58</u></a>	3.20	927.90		(MHz)

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	926.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a	<a href="#"><u>-33.07</u></a>	3.52	927.00		
					-1.000

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	926.8 MHz					
<b>Band-Edge Frequency:</b>	928.0 MHz					
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz					
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>	
		M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	
a		<u>-25.00</u>	3.99	927.00		
				M2A Frequency (MHz)	(MHz)	
					-1.000	

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Hopping) Peak**

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	926.8 MHz					
<b>Band-Edge Frequency:</b>	928.0 MHz					
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz					
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>	
		M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	
a		<u>-36.25</u>	-12.60	927.00		-1.000

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	100kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	100.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	926.9 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#">-36.10</a>	3.31	927.10		(MHz)

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	10kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	10.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>		<b>Margin</b>	
Port(s)	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)
	<a href="#"><u>-8.78</u></a>	3.19	927.90		

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	150kbps, PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	9.50	-10.50	927.80		(MHz)

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	150kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	150.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#"><u>-17.37</u></a>	3.08	927.80		(MHz)
					-0.200

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	25kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	25.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	927.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<a href="#">-8.84</a>	3.06	927.90	
					-0.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	300kbps PL 2 (Hybrid)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#"><u>-24.65</u></a>	-10.81	927.90		(MHz)

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	300kbps PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	300.00 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	927.6 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
<b>Port(s)</b>	<b>Band-Edge Markers and Limit</b>				
<b>M3 Amplitude (dBm)</b>		<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	<b>Revised Limit</b>	<b>Margin</b>
a	<a href="#"><u>-10.68</u></a>	3.05	927.90		(MHz)

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	37.5kbps, PL 3 (FHSS)	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	37.50 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	GFSK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	926.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
Port(s)	Band-Edge Markers and Limit			Revised Limit	
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)
a	<a href="#">-34.01</a>	3.30	927.00		(MHz)
					-1.000

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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



**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

#### Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak

<b>Variant:</b>	OOK PL 3	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	926.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
Port(s)		Band-Edge Markers and Limit		Revised Limit	Margin
		M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)
a		<a href="#">-23.63</a>	3.85	927.00	
					-1.000

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS	
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB	

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



**Equipment Configuration for Conducted Upper Band-Edge Emissions (Static) Peak**

<b>Variant:</b>	OOK PL1	<b>Duty Cycle (%):</b>	100.0
<b>Data Rate:</b>	16.38 KBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OOK	<b>Beam Forming Gain (Y)(dB):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	BQ
<b>Engineering Test Notes:</b>			

**Test Measurement Results**

<b>Channel Frequency:</b>	926.8 MHz				
<b>Band-Edge Frequency:</b>	928.0 MHz				
<b>Test Frequency Range:</b>	925.0 - 950.0 MHz				
Port(s)		<b>Band-Edge Markers and Limit</b>		<b>Revised Limit</b>	<b>Margin</b>
	<b>M3 Amplitude (dBm)</b>	<b>Plot Limit (dBm)</b>	<b>M2 Frequency (MHz)</b>	Amplitude (dBm)	M2A Frequency (MHz)
a	<a href="#"><u>-34.64</u></a>	-12.65	927.00		(MHz)
					-1.000

**Traceability to Industry Recognized Test Methodologies**

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

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

### 9.5.2. Radiated Emissions

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			

(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

(c) Except as provided in paragraphs (d) and (e) of this section, regardless of the field strength limits specified elsewhere in this subpart, the provisions of this section apply to emissions from any intentional radiator.

(d) The following devices are exempt from the requirements of this section:

- (1) Swept frequency field disturbance sensors operating between 1.705 and 37 MHz provided their emissions only sweep through the bands listed in paragraph (a) of this section, the sweep is never stopped with the fundamental emission within the bands listed in paragraph (a) of this section, and the fundamental emission is outside of the bands listed in paragraph (a) of this section more than 99% of the time the device is actively transmitting, without compensation for duty cycle.
- (2) Transmitters used to detect buried electronic markers at 101.4 kHz which are employed by telephone companies.
- (3) Cable locating equipment operated pursuant to §15.213.
- (4) Any equipment operated under the provisions of §15.253, 15.255, and 15.256 in the frequency band 75-85 GHz, or §15.257 of this part.
- (5) Biomedical telemetry devices operating under the provisions of §15.242 of this part are not subject to the restricted band 608-614 MHz but are subject to compliance within the other restricted bands.
- (6) Transmitters operating under the provisions of subparts D or F of this part.
- (7) Devices operated pursuant to §15.225 are exempt from complying with this section for the 13.36-13.41 MHz band only.
- (8) Devices operated in the 24.075-24.175 GHz band under §15.245 are exempt from complying with the requirements of this section for the 48.15-48.35 GHz and 72.225-72.525 GHz bands only, and shall not exceed the limits specified in §15.245(b).



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(9) Devices operated in the 24.0-24.25 GHz band under §15.249 are exempt from complying with the requirements of this section for the 48.0-48.5 GHz and 72.0-72.75 GHz bands only, and shall not exceed the limits specified in §15.249(a).

(e) Harmonic emissions appearing in the restricted bands above 17.7 GHz from field disturbance sensors operating under the provisions of §15.245 shall not exceed the limits specified in §15.245(b).

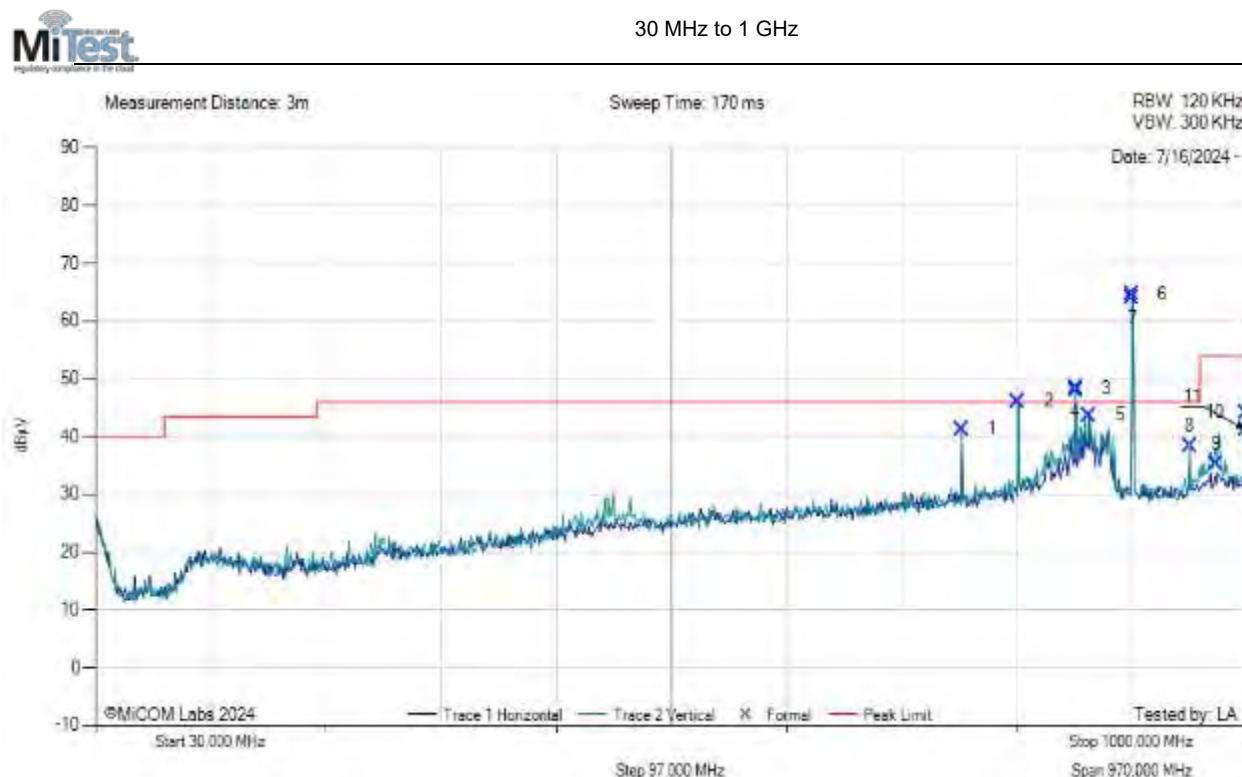
### 9.5.2.3. TX Spurious Emissions 30MHz to 1GHz

#### 9.5.2.3.1. OOK Power Level 3

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

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	OOK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	903.0	<b>Data Rate:</b>	16.384 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

##### 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	759.44	40.50	6.49	-3.72	41.28	NRB	Horizontal	100	330	--	--	Pass
2	806.97	44.40	6.65	-2.92	46.13	NRB	Vertical	100	239	--	--	Pass
3	855.47	45.94	6.78	-2.36	48.36	NRB	Vertical	100	330	--	--	Pass
4	855.47	45.48	6.78	-2.36	47.90	NRB	Horizontal	100	330	--	--	Pass
5	867.11	41.08	6.82	-2.18	43.72	NRB	Horizontal	100	330	--	--	Pass
6	903.00	61.61	6.93	28.70	64.69	Fundamental	Vertical	100	210	--	--	Pass
7	903.00	60.95	6.93	28.70	64.03	Fundamental	Horizontal	100	30	--	--	Pass
8	951.50	34.51	7.08	-1.35	38.24	MaxP	Vertical	100	29	46.0	-7.8	Pass
9	973.59	31.13	7.14	-1.08	35.19	MaxQP	Vertical	100	14	54.0	-18.8	Pass
10	999.02	39.93	7.23	-0.94	44.22	MaxQP	Vertical	101	29	54.0	-9.8	Pass
11	999.02	36.84	7.23	-0.94	41.13	MaxQP	Horizontal	194	316	54.0	-12.9	Pass

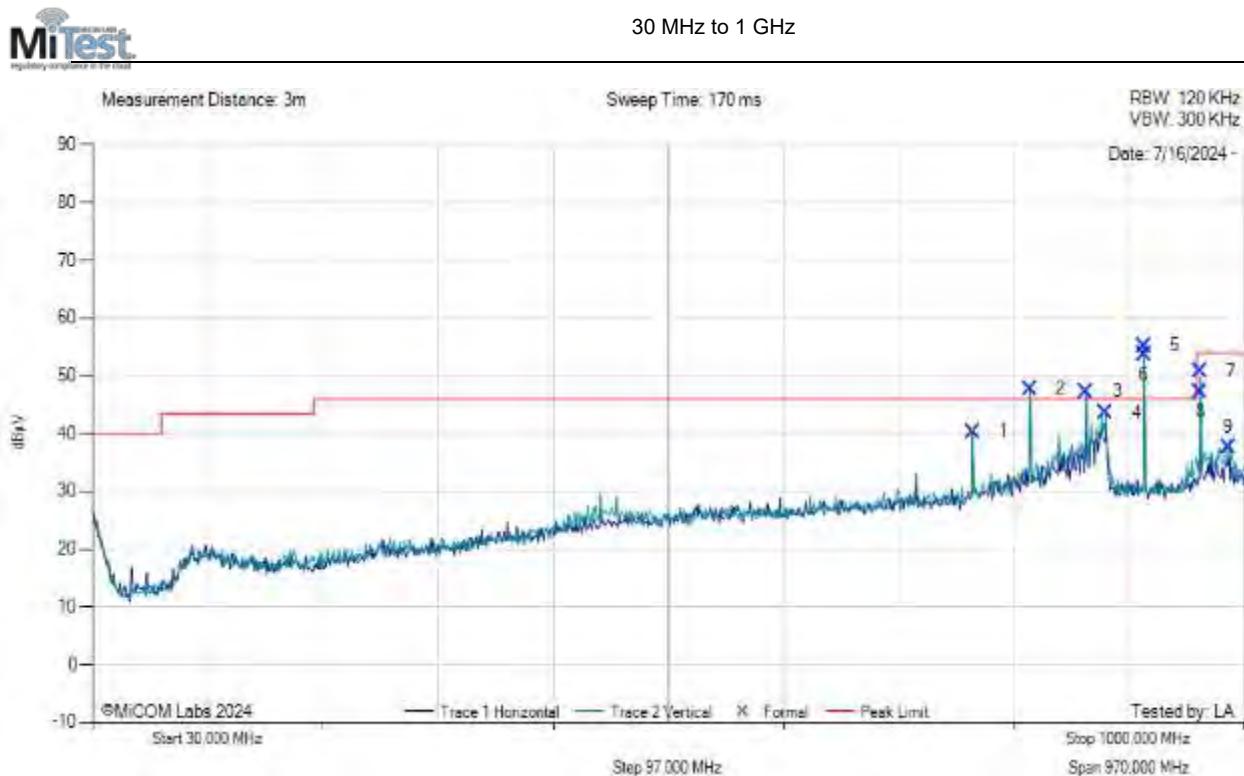
**Test Notes:** SN: 2935662-13, OOK 903MHz, 16.384kbps, Power Level 3

Non-Restricted Band (NRB)

## Equipment Configuration for 30 MHZ TO 1 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	OOK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	915.0	<b>Data Rate:</b>	16.384 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

## 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	771.08	39.41	6.56	-3.65	40.31	NRB	Vertical	100	240	--	--	Pass
2	819.58	45.76	6.69	-2.67	47.78	NRB	Vertical	100	149	--	--	Pass
3	867.11	44.64	6.82	-2.18	47.28	NRB	Vertical	100	240	--	--	Pass
4	883.60	40.96	6.88	-2.24	43.59	NRB	Vertical	100	119	--	--	Pass
5	915.61	52.00	6.98	-1.75	55.23	Fundamental	Vertical	100	29	--	--	Pass
6	915.61	50.55	6.98	-1.75	53.78	Fundamental	Horizontal	100	330	--	--	Pass
7	962.99	46.71	7.11	-1.09	50.73	MaxQP	Vertical	101	47	54.0	-3.3	Pass
8	962.99	43.27	7.11	-1.09	47.29	MaxQP	Horizontal	148	0	54.0	-6.7	Pass
9	986.50	33.44	7.18	-1.02	37.59	MaxQP	Vertical	99	29	54.0	-16.4	Pass

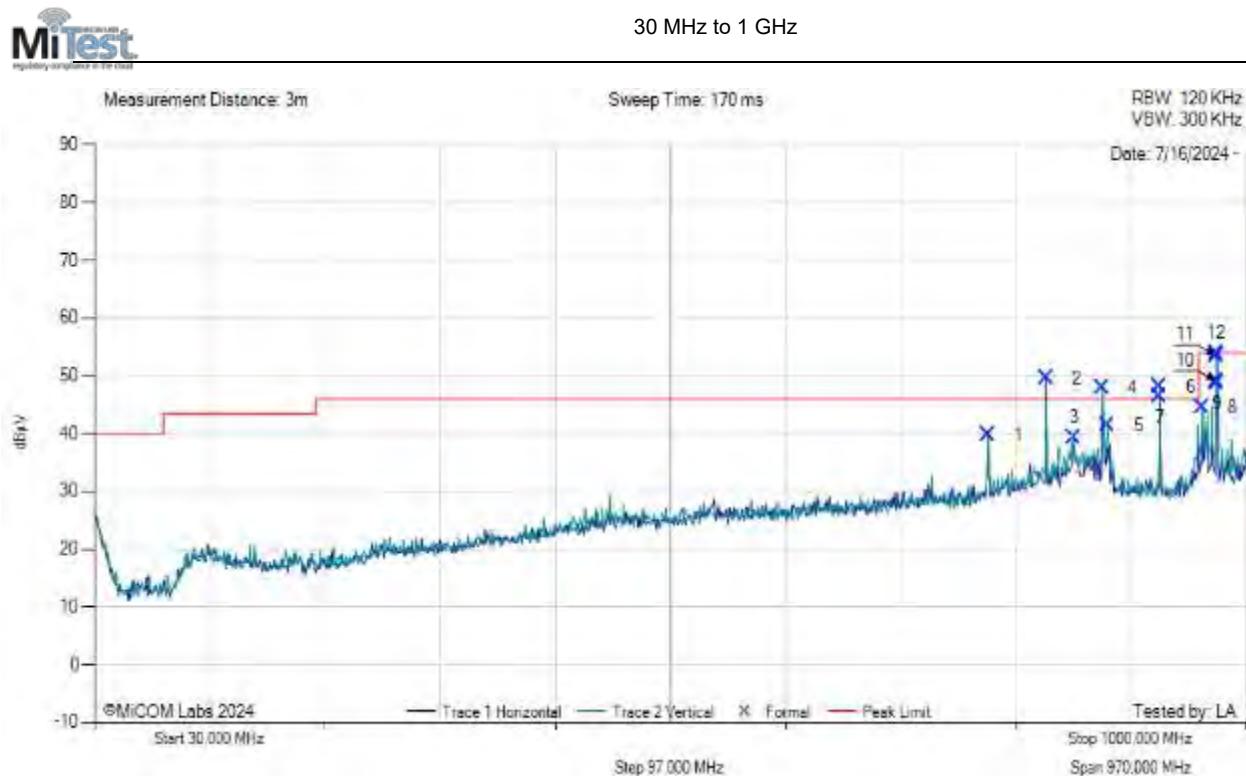
**Test Notes:** SN: 2935662-13, OOK 915MHz, 16.384kbps, Power Level 3

Non-Restricted Band (NRB)

**Equipment Configuration for 30 MHZ TO 1 GHZ**

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	OOK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	926.8	<b>Data Rate:</b>	16.384 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

**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	782.72	38.45	6.57	-3.25	39.77	NRB	Vertical	100	179	--	--	Pass
2	831.22	47.32s	6.72	-2.47	49.57	NRB	Vertical	100	330	--	--	Pass
3	854.50	36.88	6.79	-2.34	39.33	NRB	Horizontal	100	330	--	--	Pass
4	878.75	45.25	6.86	-2.20	47.91	NRB	Vertical	100	299	--	--	Pass
5	883.60	38.80	6.88	-2.24	41.43	NRB	Vertical	100	270	--	--	Pass
6	927.25	44.68	7.00	-1.55	48.13	Fundamental	Vertical	100	239	--	--	Pass
7	927.25	42.96	7.00	-1.55	46.42	Fundamental	Horizontal	199	300	--	--	Pass
8	963.14	40.49	7.11	-1.09	44.51	MaxP	Vertical	100	29	54.0	-9.5	Pass
9	974.79	44.62	7.16	-1.09	48.69	MaxP	Horizontal	199	359	54.0	-5.3	Pass
10	974.80	45.04	7.16	-1.09	49.11	MaxQP	Horizontal	147	0	54.0	-4.9	Pass
11	974.80	49.42	7.16	-1.09	53.49	MaxP	Vertical	100	359	54.0	-0.5	Pass
12	974.80	49.88	7.16	-1.09	53.94	MaxQP	Vertical	100	26	54.0	-0.1	Pass

**Test Notes:** SN: 2935662-13, OOK 926.8MHz, 16.384kbps, Power Level 3, power setting 26 in script

Non-Restricted Band (NRB)

### 9.5.2.3.2. GFSK Power Level 2

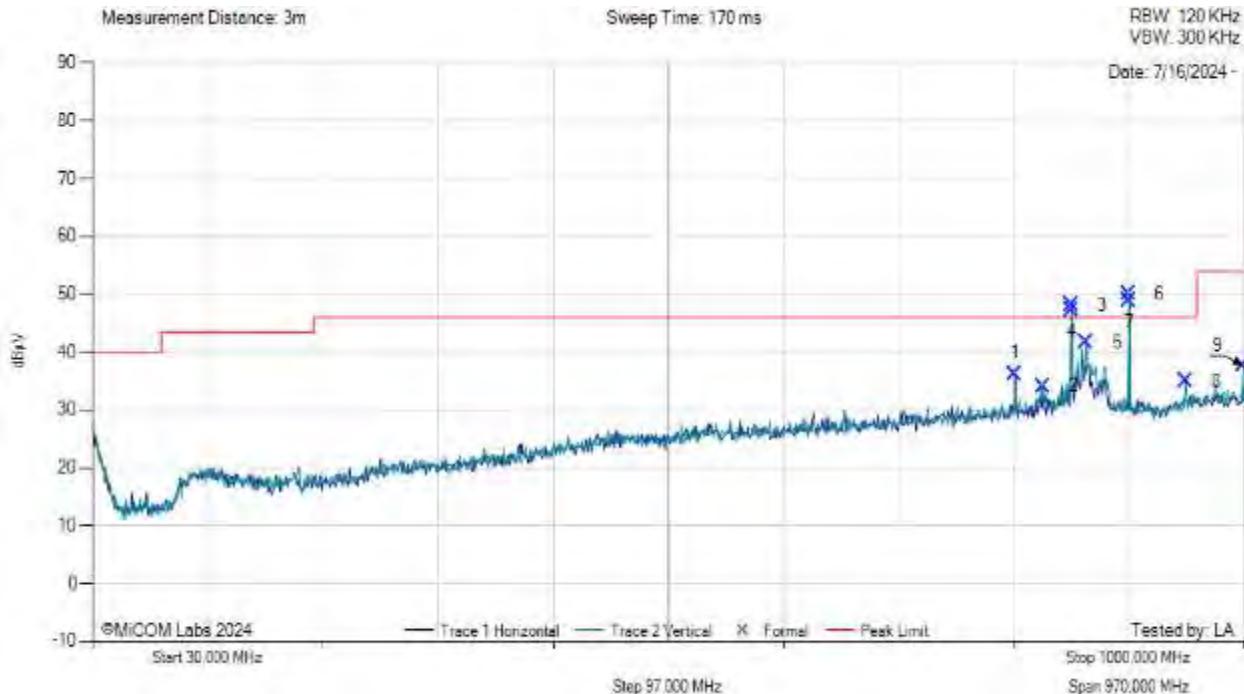
#### Equipment Configuration for 30 MHZ TO 1 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	902.4	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 2	<b>Tested By:</b>	LA

#### Test Measurement Results



30 MHz to 1 GHz





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	806.97	34.49	6.65	-2.86	36.28	NRB	Vertical	100	330	--	--	Pass
2	830.25	31.99	6.72	-2.58	34.13	NRB	Horizontal	100	330	--	--	Pass
3	854.50	45.75	6.79	-2.34	48.20	NRB	Vertical	100	330	--	--	Pass
4	854.50	44.68	6.79	-2.34	47.12	NRB	Horizontal	100	330	--	--	Pass
5	867.11	39.06	6.82	-2.18	41.70	NRB	Vertical	100	119	--	--	Pass
6	903.00	46.99	6.93	28.70	50.07	Fundamental	Vertical	100	269	--	--	Pass
7	903.00	45.72	6.93	28.70	48.80	Fundamental	Horizontal	100	60	--	--	Pass
8	950.53	31.33	7.08	-1.39	35.02	MaxP	Vertical	100	239	46.0	-11.0	Pass
9	999.03	33.33	7.23	-0.94	37.62	MaxP	Vertical	100	29	54.0	-16.4	Pass

**Test Notes:** SN: 2935662-13, GFSK 902.4MHz, 300kbps, Power Level 2

Non-Restricted Band (NRB)

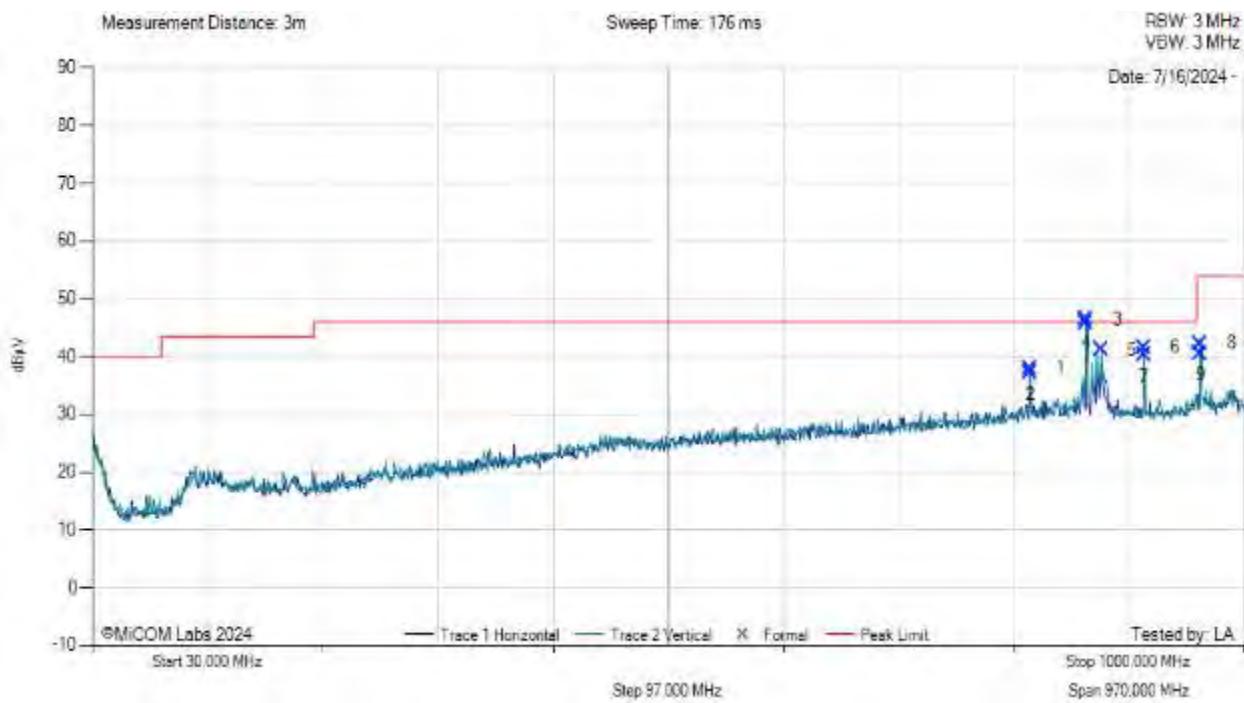
Equipment Configuration for 30 MHZ TO 1 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	915.2	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 2	<b>Tested By:</b>	LA

Test Measurement Results



30 MHz to 1 GHz





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	819.58	35.94	6.69	-2.67	37.95	NRB	Vertical	199	239	--	--	Pass
2	819.58	35.14	6.69	-2.67	37.16	NRB	Horizontal	100	330	--	--	Pass
3	867.11	43.88	6.82	-2.18	46.52	NRB	Vertical	100	59	--	--	Pass
4	867.11	43.20	6.82	-2.18	45.84	NRB	Horizontal	100	330	--	--	Pass
5	879.72	38.47	6.87	-2.20	41.14	NRB	Vertical	100	149	--	--	Pass
6	915.61	38.30	6.98	-1.75	41.53	Fundamental	Horizontal	100	30	--	--	Pass
7	915.61	36.94	6.98	-1.75	40.17	Fundamental	Vertical	199	29	--	--	Pass
8	963.27	38.23	7.11	-1.09	42.25	MaxQP	Vertical	104	29	54.0	-11.7	Pass
9	963.27	36.45	7.11	-1.09	40.47	MaxQP	Horizontal	117	150	54.0	-13.5	Pass

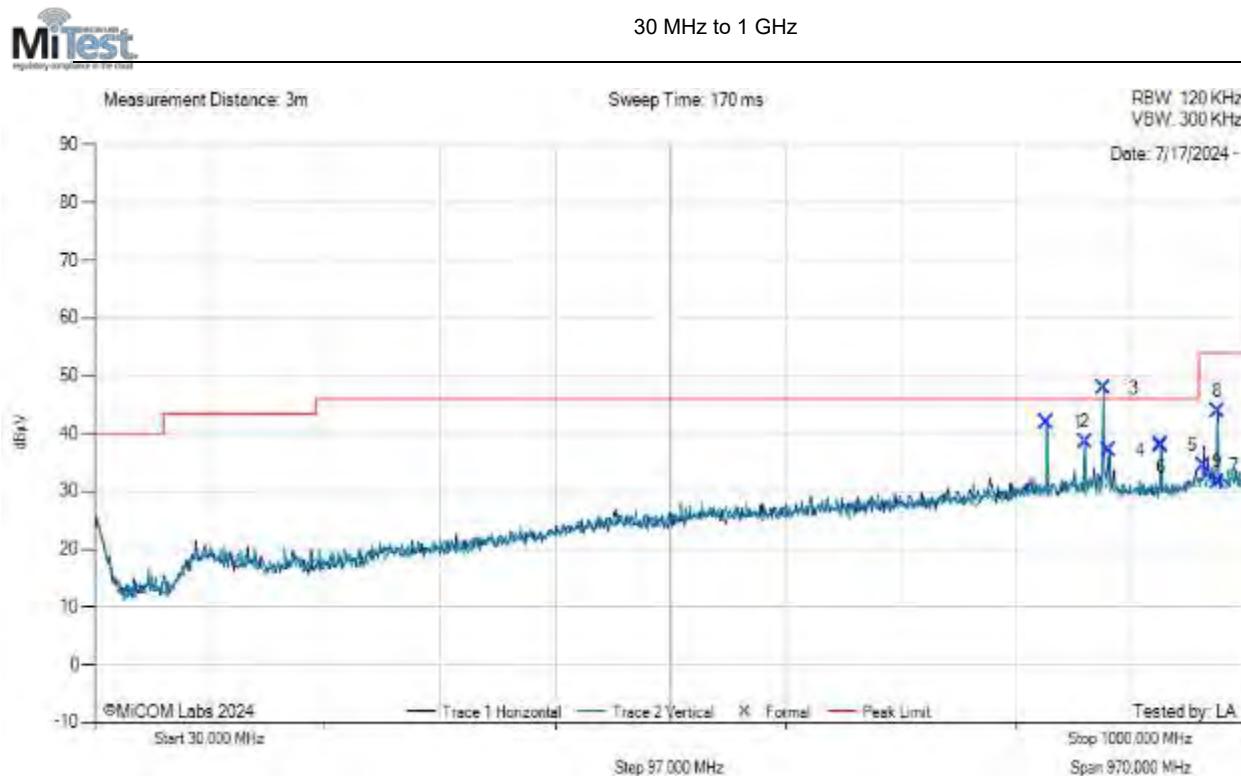
**Test Notes:** SN: 2935662-13, GFSK 915.2MHz, 300kbps, Power Level 2

Non-Restricted Band (NRB)

Equipment Configuration for 30 MHZ TO 1 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	927.6	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 2	<b>Tested By:</b>	LA

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	832.19	39.70	6.72	-2.56	41.86	NRB	Horizontal	100	300	--	--	Pass	
2	864.20	35.90	6.81	-2.23	38.48	NRB	Horizontal	100	330	--	--	Pass	
3	879.72	45.24	6.87	-2.20	47.91	NRB	Horizontal	100	330	--	--	Pass	
4	884.57	34.44	6.87	-2.25	37.06	NRB	Horizontal	100	330	--	--	Pass	
5	928.22	34.68	7.00	-1.56	38.12	Fundamental	Horizontal	100	300	--	--	Pass	
6	928.22	34.39	7.00	-1.56	37.83	Fundamental	Vertical	100	209	--	--	Pass	
7	963.82	30.51	7.11	-1.09	34.53	MaxQP	Horizontal	190	118	54.0	-19.5	Pass	
8	975.52	39.81	7.17	-1.08	43.90	MaxQP	Horizontal	199	294	54.0	-10.1	Pass	
9	975.69	27.50	7.17	-1.08	31.59	MaxQP	Vertical	148	336	54.0	-22.4	Pass	

**Test Notes:** SN: 2935662-13, GFSK 927.6MHz, 300kbps, Power Level 2

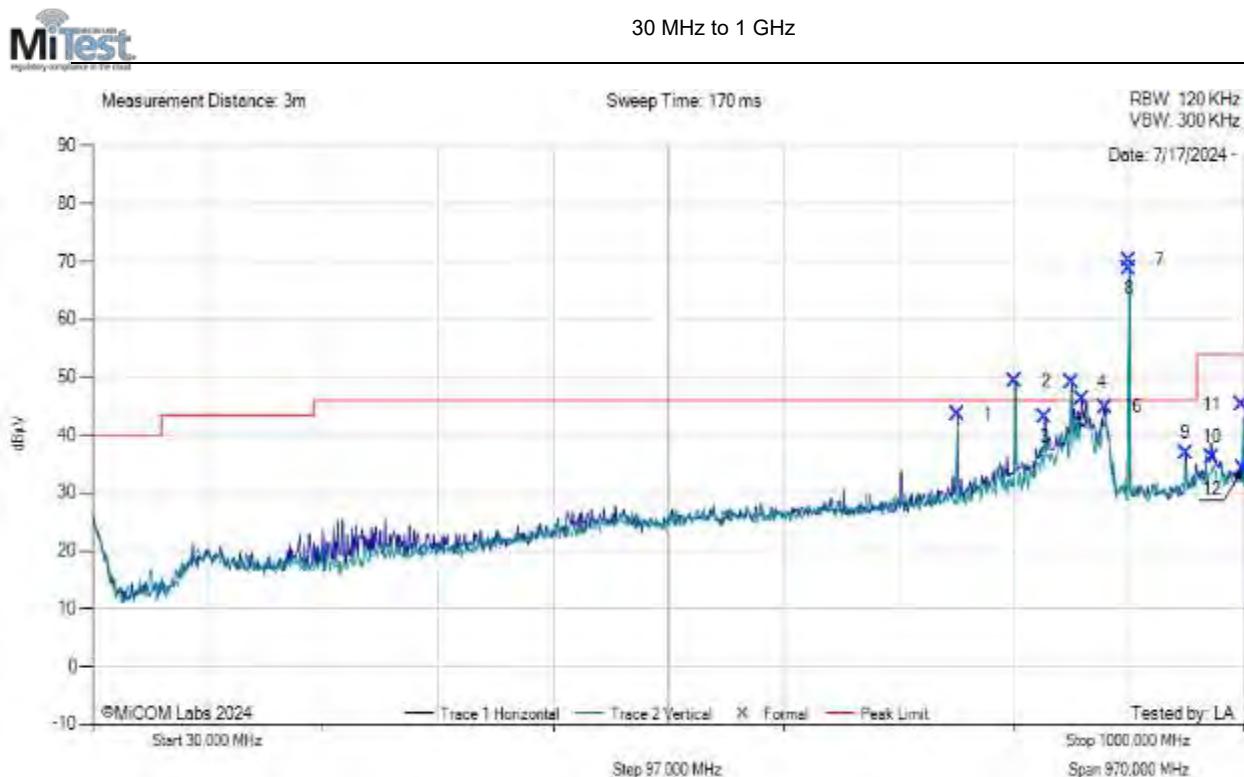
Non-Restricted Band (NRB)

### 9.5.2.3.3. GFSK Power Level 3

#### Equipment Configuration for 30 MHZ TO 1 GHZ 2M

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	902.4	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

#### 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	758.47	42.81	6.49	-3.71	43.58	NRB	Horizontal	99	300	--	--	Pass	
2	806.97	47.61	6.65	-2.92	49.33	NRB	Horizontal	99	300	--	--	Pass	
3	832.19	41.08	6.72	-2.56	43.24	NRB	Horizontal	99	300	--	--	Pass	
4	854.50	46.64	6.79	-2.34	49.08	NRB	Horizontal	99	330	--	--	Pass	
5	863.23	43.62	6.81	-2.22	46.20	NRB	Horizontal	99	300	--	--	Pass	
6	883.60	42.27	6.88	-2.24	44.91	NRB	Horizontal	99	330	--	--	Pass	
7	903.00	67.11	6.93	28.70	70.19	Fundamental	Vertical	99	149	--	--	Pass	
8	903.00	65.75	6.93	28.70	68.83	Fundamental	Horizontal	199	150	--	--	Pass	
9	950.53	33.18	7.08	-1.39	36.88	NRB	Horizontal	199	300	46.0	-9.1	Pass	
10	972.83	32.10	7.14	-1.07	36.17	MaxQP	Horizontal	147	297	54.0	-17.8	Pass	
11	998.32	40.90	7.22	-0.94	45.18	MaxQP	Horizontal	112	142	54.0	-8.8	Pass	
12	998.45	29.88	7.22	-0.94	34.16	MaxQP	Vertical	192	338	54.0	-19.8	Pass	

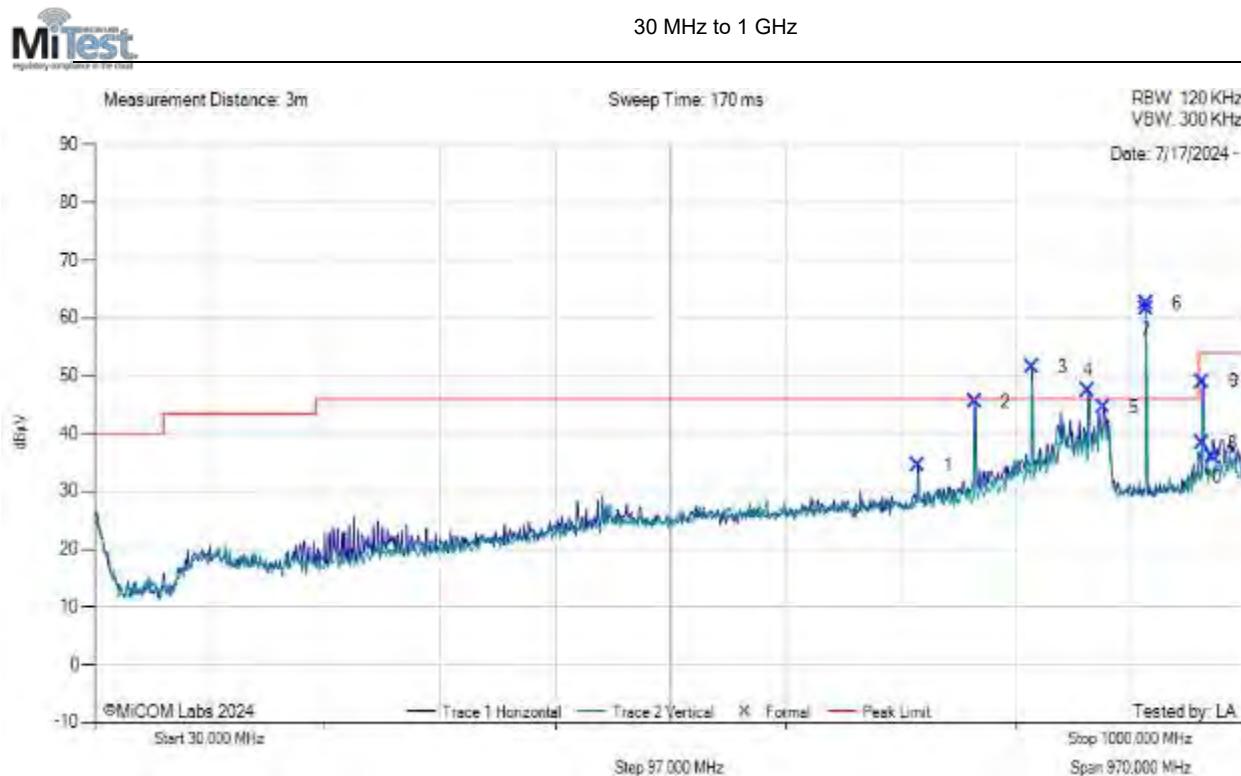
**Test Notes:** SN: 2935662-13, GFSK 902.4MHz, 300kbps, Power Level 3

Non-Restricted Band (NRB)

Equipment Configuration for 30 MHZ TO 1 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	915.2	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

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	723.55	34.02	6.40	-3.94	34.48	NRB	Horizontal	100	330	--	--	Pass
2	771.08	44.53	6.56	-3.65	45.44	NRB	Horizontal	100	300	--	--	Pass
3	819.58	49.42	6.69	-2.67	51.43	NRB	Horizontal	100	300	--	--	Pass
4	867.11	44.84	6.82	-2.18	47.48	NRB	Horizontal	100	330	--	--	Pass
5	879.72	41.79	6.87	-2.20	44.46	NRB	Horizontal	100	300	--	--	Pass
6	915.61	59.30	6.98	-1.75	62.54	Fundamental	Horizontal	100	120	--	--	Pass
7	915.61	58.25	6.98	-1.75	61.48	Fundamental	Vertical	100	149	--	--	Pass
8	963.13	34.32	7.11	-1.09	38.34	MaxQP	Vertical	100	299	54.0	-15.7	Pass
9	963.16	44.97	7.11	-1.09	48.99	MaxQP	Horizontal	198	285	54.0	-5.0	Pass
10	971.50	31.94	7.14	-1.08	36.01	MaxQP	Horizontal	199	291	54.0	-18.0	Pass

**Test Notes:** SN: 2935662-13, GFSK 915.2MHz, 300kbps, Power Level 3

Non-Restricted Band (NRB)

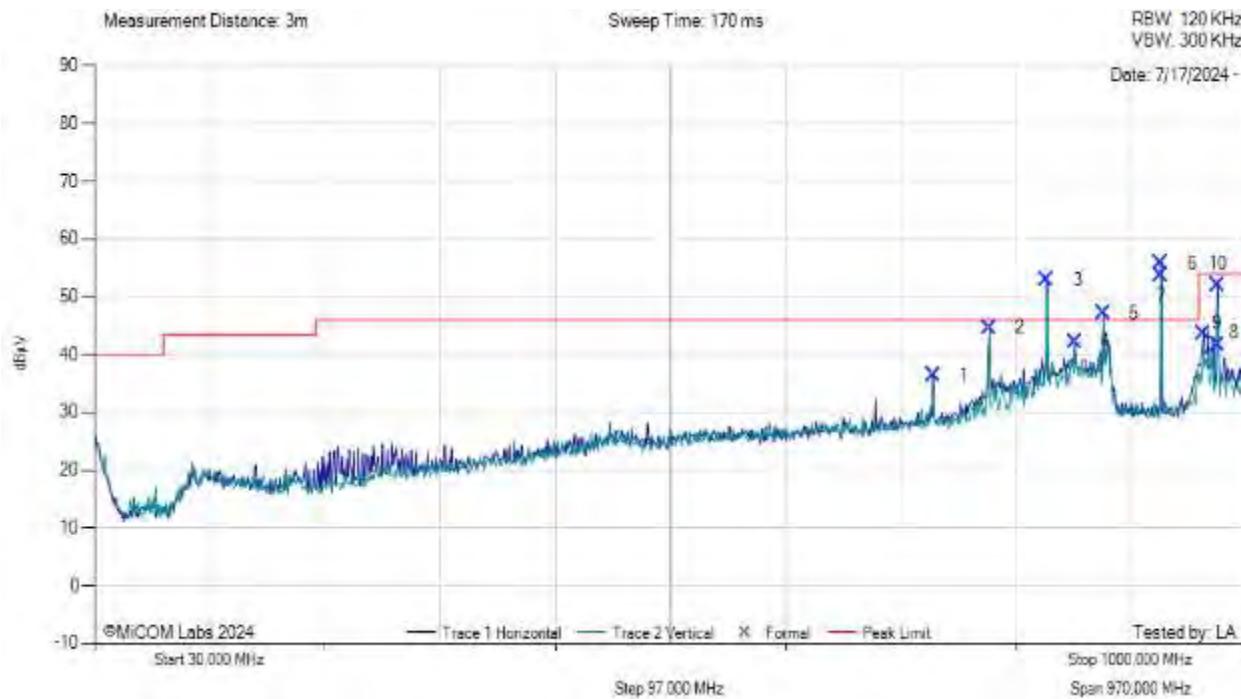
**Equipment Configuration for 30 MHZ TO 1 GHZ**

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	927.6	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

**Test Measurement Results**



30 MHz to 1 GHz





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	736.16	35.79	6.42	-3.78	36.43	NRB	Horizontal	99	300	--	--	Pass
2	783.69	43.32	6.58	-3.27	44.63	NRB	Vertical	99	330	--	--	Pass
3	832.19	50.76	6.72	-2.56	52.93	NRB	Horizontal	99	300	--	--	Pass
4	855.47	39.87	6.78	-2.36	42.29	NRB	Horizontal	99	330	--	--	Pass
5	879.72	44.55	6.87	-2.20	47.22	NRB	Horizontal	99	330	--	--	Pass
6	928.22	52.35	7.00	-1.56	55.79	Fundamental	Horizontal	199	150	--	--	Pass
7	928.22	50.29	7.00	-1.56	53.73	Fundamental	Vertical	99	330	--	--	Pass
8	963.79	39.64	7.11	-1.09	43.66	MaxQP	Horizontal	147	282	54.0	-10.3	Pass
9	975.54	37.70	7.17	-1.08	41.78	MaxQP	Vertical	199	339	54.0	-12.2	Pass
10	975.66	48.01	7.17	-1.08	52.10	MaxQP	Horizontal	198	298	54.0	-1.9	Pass

**Test Notes:** SN: 2935662-13, GFSK 927.6MHz, 300kbps, Power Level 3

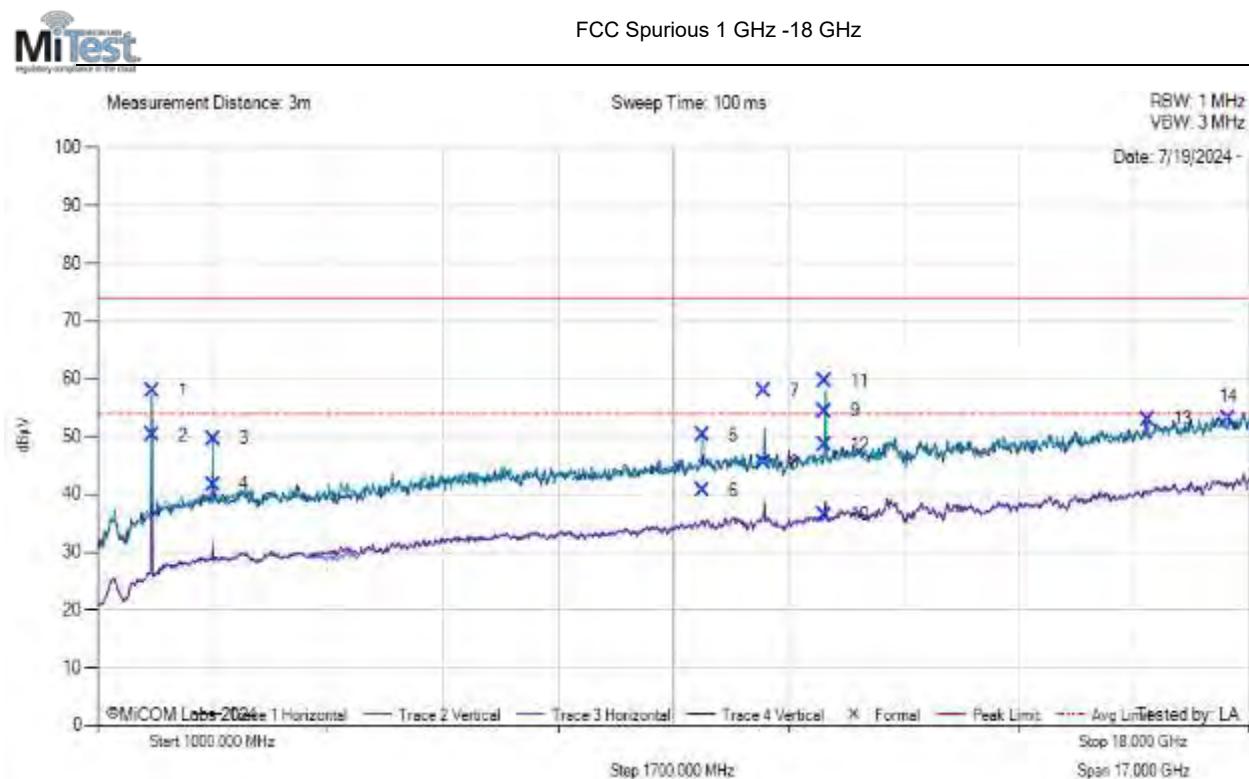
Non-Restricted Band (NRB)

#### 9.5.2.4. TX Spurious Emissions 1GHz to 18GHz

#### 9.5.2.4.1. OOK Power Level 3

Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ			
<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	OOK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	903.0	<b>Data Rate:</b>	16.384 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

## 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	1805.99	70.71	1.71	-14.53	57.89	MaxP	Vertical	149	267	74.0	-16.1	Pass
2	1805.99	63.09	1.71	-14.53	50.26	AVG	Vertical	149	267	54.0	-3.7	Pass
3	2709.03	59.34	2.07	-11.77	49.64	MaxP	Vertical	150	65	74.0	-24.4	Pass
4	2709.03	51.44	2.07	-11.77	41.74	AVG	Vertical	150	65	54.0	-12.3	Pass
5	9932.99	51.38	4.33	-5.51	50.20	MaxP	Vertical	150	302	74.0	-23.8	Pass
6	9932.99	41.87	4.33	-5.51	40.69	AVG	Vertical	150	302	54.0	-13.3	Pass
7	10836.05	57.97	4.57	-4.69	57.85	MaxP	Vertical	157	298	74.0	-16.1	Pass
8	10836.05	45.55	4.57	-4.69	45.43	AVG	Vertical	157	298	54.0	-8.6	Pass
9	11738.88	55.92	5.02	-6.51	54.42	MaxP	Horizontal	188	85	74.0	-19.6	Pass
10	11738.88	37.98	5.02	-6.51	36.48	AVG	Horizontal	188	85	54.0	-17.5	Pass
11	11739.03	61.12	5.02	-6.52	59.62	MaxP	Vertical	157	301	74.0	-14.4	Pass
12	11739.03	50.03	5.02	-6.52	48.54	AVG	Vertical	157	301	54.0	-5.5	Pass
13	16504.00	47.62	6.13	41.12	52.94	MaxP	Vertical	199	0	74.0	-21.1	Pass
14	17694.00	47.28	6.38	41.69	53.18	MaxP	Horizontal	150	240	74.0	-20.8	Pass

**Test Notes:** SN: 2935662-13, OOK 903MHz, 16.384 kbps, 1-18G, Power Level 3

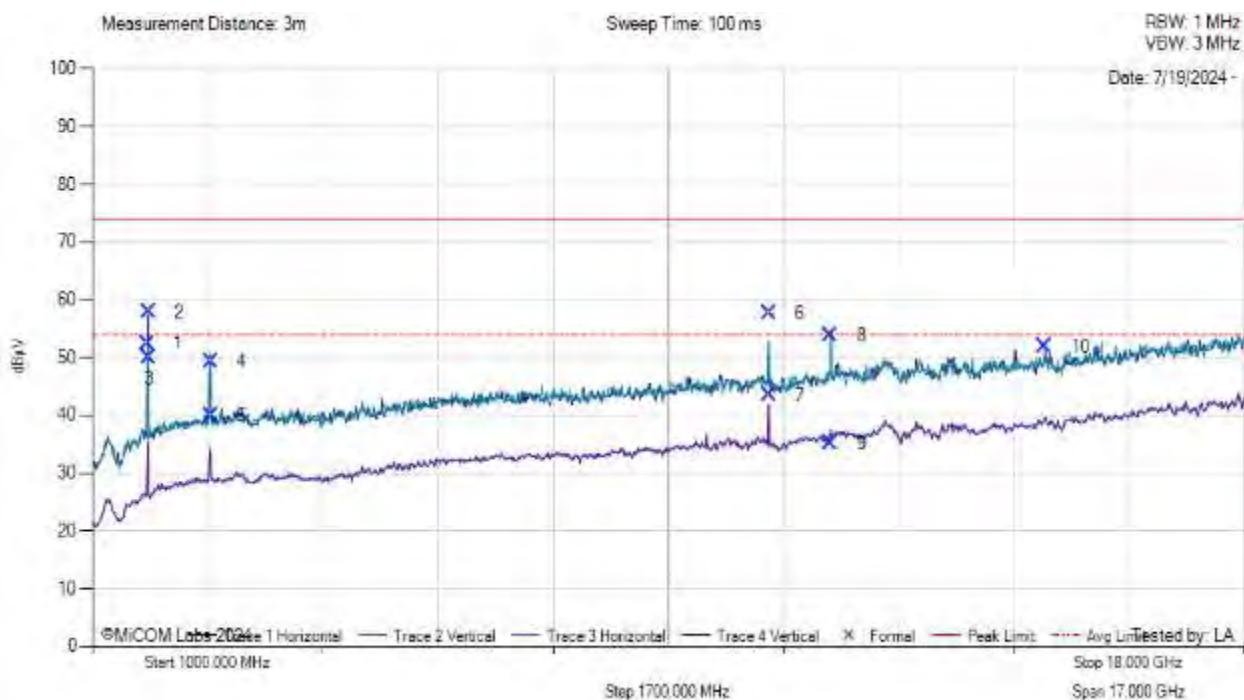
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	OOK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	915.0	<b>Data Rate:</b>	16.384 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

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	1816.00	65.11	1.73	30.49	52.38	MaxP	Vertical	149	299	74.0	-21.6	Pass
2	1829.96	70.54	1.75	-14.36	57.93	MaxP	Horizontal	155	272	74.0	-16.1	Pass
3	1829.96	62.59	1.75	-14.36	49.98	AVG	Horizontal	155	272	54.0	-4.0	Pass
4	2745.05	58.83	2.11	-11.74	49.20	MaxP	Vertical	163	61	74.0	-24.8	Pass
5	2745.05	49.51	2.11	-11.74	39.87	AVG	Vertical	163	61	54.0	-14.1	Pass
6	10979.92	58.26	4.60	-5.18	57.69	MaxP	Vertical	151	287	74.0	-16.3	Pass
7	10979.92	44.14	4.60	-5.18	43.56	AVG	Vertical	151	287	54.0	-10.4	Pass
8	11895.13	54.99	4.95	-6.16	53.79	MaxP	Vertical	150	300	74.0	-20.2	Pass
9	11895.13	36.35	4.95	-6.16	35.14	AVG	Vertical	150	300	54.0	-18.9	Pass
10	15059.00	50.34	5.73	39.71	51.84	MaxP	Vertical	199	239	74.0	-22.2	Pass

**Test Notes:** SN: 2935662-13, OOK 915MHz, 16.384 kbps, 1-18G, Power Level 3

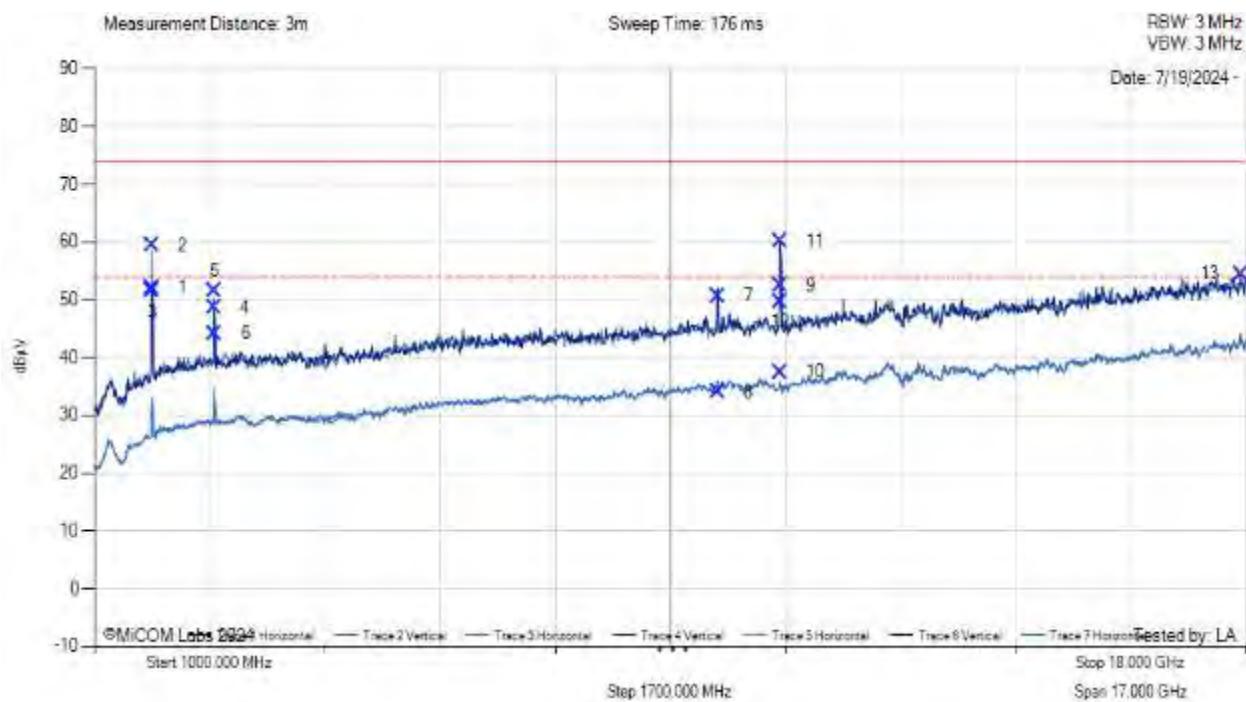
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	OOK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	926.8	<b>Data Rate:</b>	16.384 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

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	1850.00	64.54	1.72	-14.17	52.09	MaxP	Vertical	150	330	74.0	-21.9	--
2	1853.59	71.89	1.72	-14.16	59.45	MaxP	Horizontal	153	283	74.0	-14.6	Pass
3	1853.59	63.98	1.72	-14.16	51.54	AVG	Horizontal	153	283	54.0	-2.5	Pass
4	2768.00	58.15	2.16	32.47	48.57	MaxP	Horizontal	150	30	74.0	-25.4	Pass
5	2780.40	61.18	2.13	-11.79	51.52	MaxP	Vertical	191	61	74.0	-22.5	Pass
6	2780.40	53.83	2.13	-11.79	44.17	AVG	Vertical	191	61	54.0	-9.8	Pass
7	10194.69	51.56	4.36	-5.23	50.69	MaxP	Vertical	151	311	74.0	-23.3	Pass
8	10194.69	34.90	4.36	-5.23	34.03	AVG	Vertical	151	311	54.0	-20.0	Pass
9	11121.51	53.53	4.51	-5.61	52.44	MaxP	Horizontal	170	17	74.0	-21.6	Pass
10	11121.51	38.61	4.51	-5.61	37.51	AVG	Horizontal	170	17	54.0	-16.5	Pass
11	11121.61	61.28	4.51	-5.61	60.18	MaxP	Vertical	151	297	74.0	-13.8	Pass
12	11121.61	50.77	4.51	-5.61	49.67	AVG	Vertical	151	297	54.0	-4.3	Pass
13	17915.00	46.55	6.67	41.55	54.50	MaxP	Horizontal	199	60	74.0	-19.5	Pass

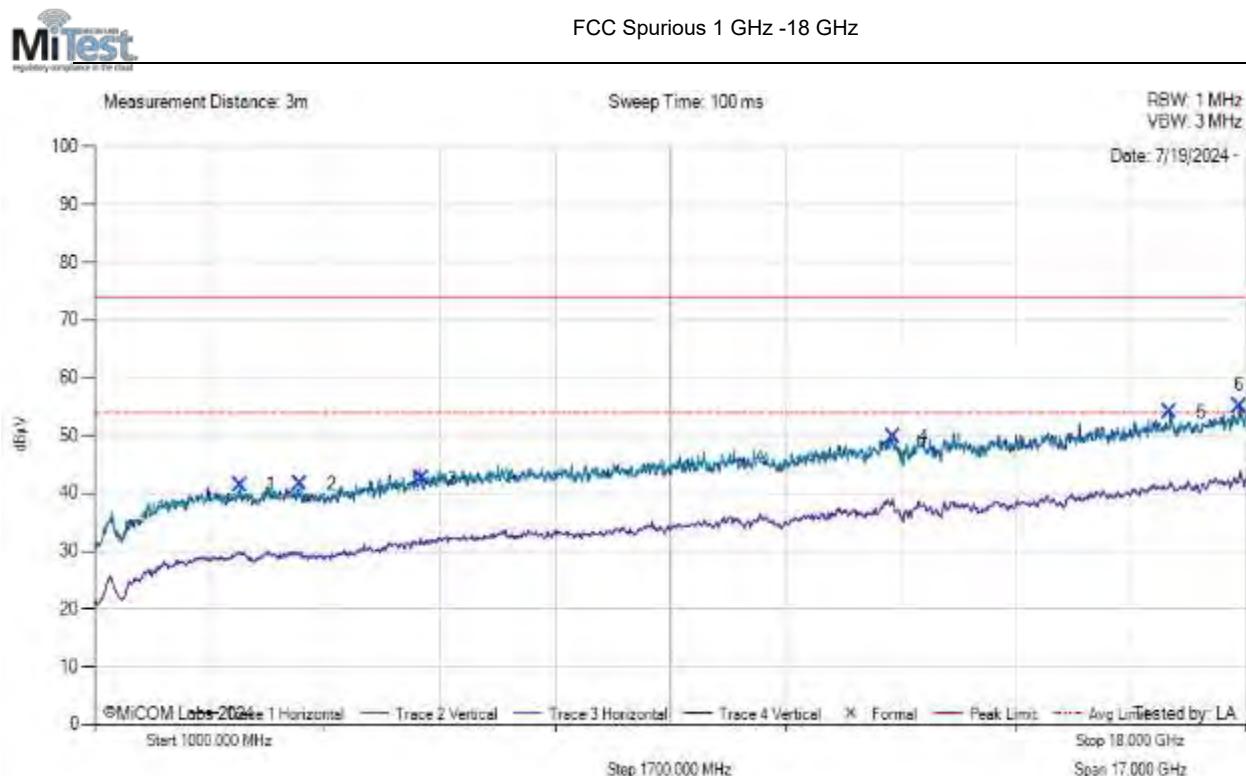
**Test Notes:** SN: 2935662-13, OOK 926.8MHz, 16.384 kbps, 1-18G, Power Level 3

#### 9.5.2.4.2. GFSK Power Level 2

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

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	902.4	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 2	<b>Tested By:</b>	LA

## Test Measurement Results





**Title:** Itron Inc. ERG-7600-008  
**To:** FCC CFR 47 Part 15C 15.247 & ISED RSS-247  
**Serial #:** ITRO67-U28 Rev A

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	3159.00	50.59	2.27	33.06	41.45	MaxP	Vertical	199	300	74.0	-32.5	Pass
2	4043.00	51.24	2.58	33.38	41.61	MaxP	Vertical	149	89	74.0	-32.4	Pass
3	5828.00	49.68	3.23	34.91	42.58	MaxP	Vertical	199	300	74.0	-31.4	Pass
4	12781.00	52.29	5.29	39.13	49.79	MaxP	Vertical	149	269	74.0	-24.2	Pass
5	16878.00	48.06	6.59	41.70	54.10	MaxP	Horizontal	199	270	74.0	-19.9	Pass
6	17898.00	48.00	6.28	41.57	55.18	MaxP	Vertical	199	0	74.0	-18.8	Pass

**Test Notes:** SN: 2935662-13, GSFK 902.4MHz, 300 kbps, 1-18G, Power Level 2

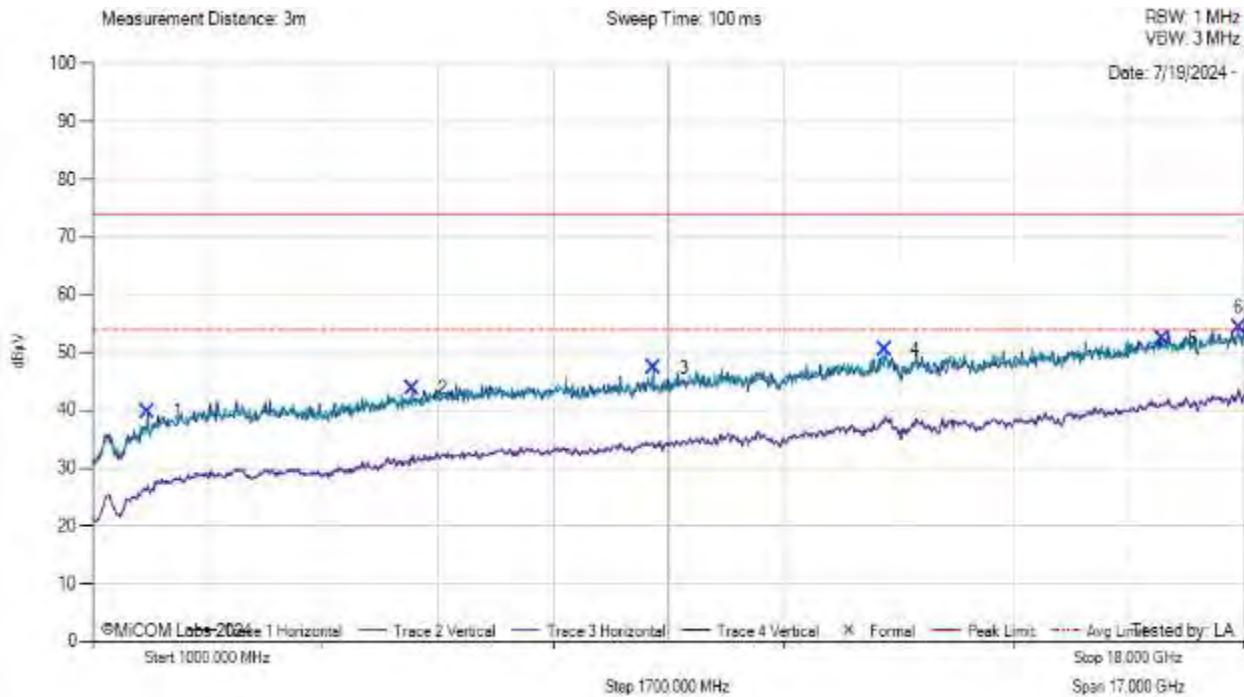
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	915.2	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 2	<b>Tested By:</b>	LA

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	1816.00	52.57	1.73	30.49	39.84	MaxP	Horizontal	150	270	74.0	-34.2	Pass	
2	5726.00	51.12	3.21	34.70	43.91	MaxP	Vertical	199	59	74.0	-30.1	Pass	
3	9279.00	50.02	4.21	36.34	47.31	MaxP	Vertical	199	239	74.0	-26.7	Pass	
4	12696.00	52.19	5.26	39.09	50.50	MaxP	Vertical	150	179	74.0	-23.5	Pass	
5	16793.00	46.76	6.11	41.71	52.35	MaxP	Vertical	150	149	74.0	-21.6	Pass	
6	17915.00	46.30	6.67	41.55	54.25	MaxP	Vertical	199	149	74.0	-19.7	Pass	

Test Notes: SN: 2935662-13, GSFK 915.2MHz, 300 kbps, 1-18G, Power Level 2

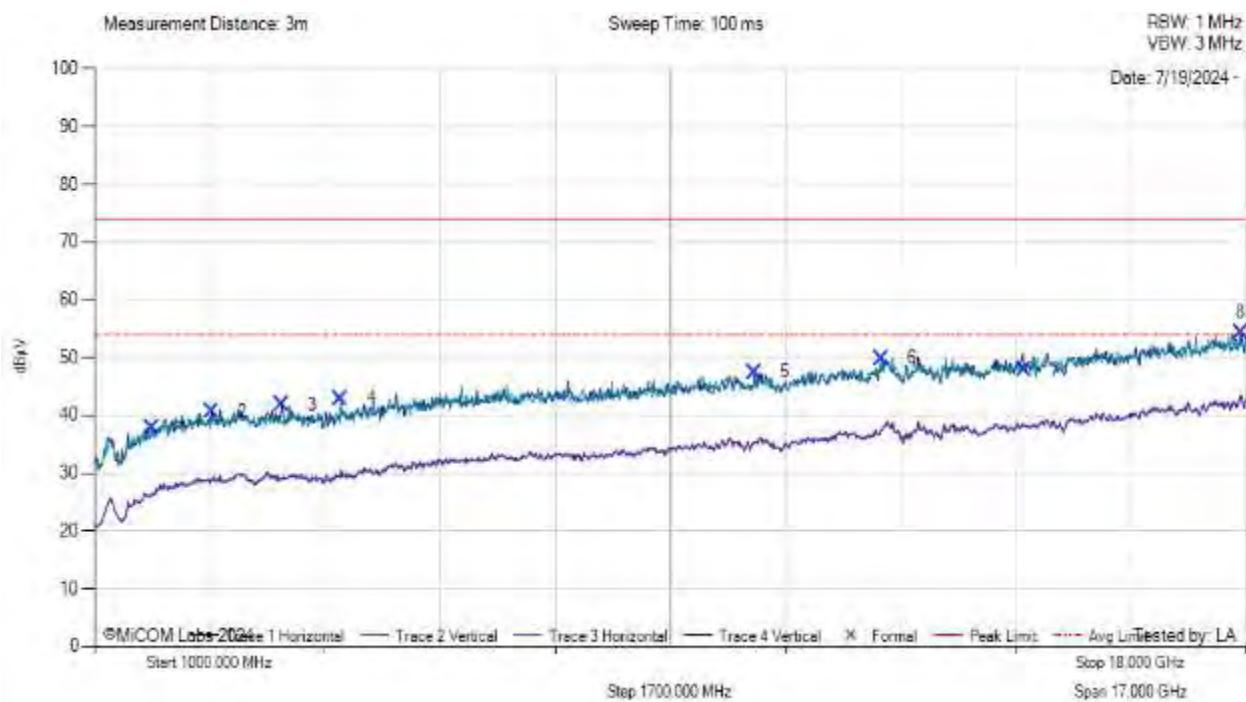
Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	927.6	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 2	<b>Tested By:</b>	LA

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	1850.00	50.28	1.70	30.70	37.80	MaxP	Vertical	199	299	74.0	-36.2	Pass	
2	2734.00	50.30	2.11	32.44	40.66	MaxP	Horizontal	151	60	74.0	-33.3	Pass	
3	3771.00	51.23	2.47	33.43	41.91	MaxP	Horizontal	151	60	74.0	-32.1	Pass	
4	4638.00	52.45	2.82	34.00	42.94	MaxP	Vertical	151	60	74.0	-31.1	Pass	
5	10741.00	48.02	4.46	37.75	47.50	MaxP	Horizontal	199	180	74.0	-26.5	Pass	
6	12611.00	51.17	5.26	39.00	49.87	MaxP	Vertical	151	209	74.0	-24.1	Pass	
7	14719.00	48.10	5.54	39.65	47.80	MaxP	Horizontal	199	180	74.0	-26.2	Pass	
8	17915.00	46.32	6.67	41.55	54.27	MaxP	Horizontal	199	330	74.0	-19.7	Pass	

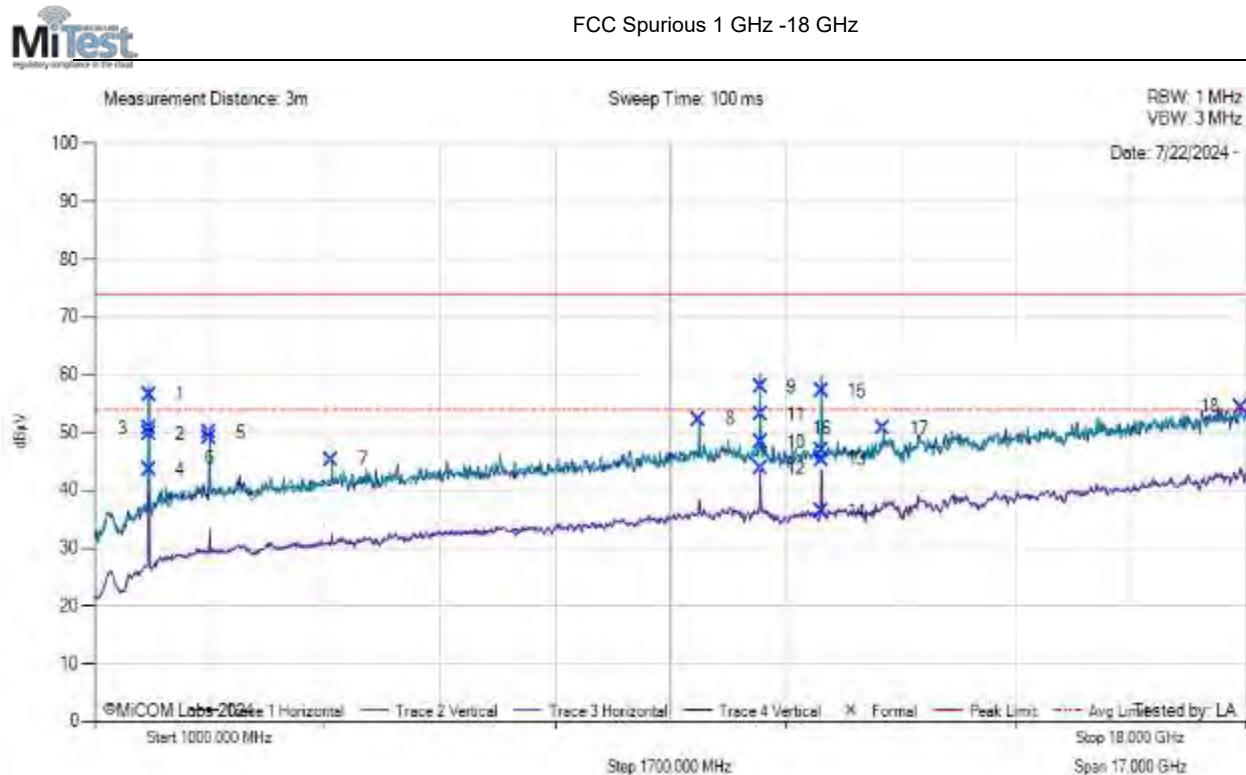
**Test Notes:** SN: 2935662-13, GSFK 927.6MHz, 300 kbps, 1-18G, Power Level 2

#### 9.5.2.4.3. GFSK Power Level 3

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

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	902.4	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

##### Test Measurement Results





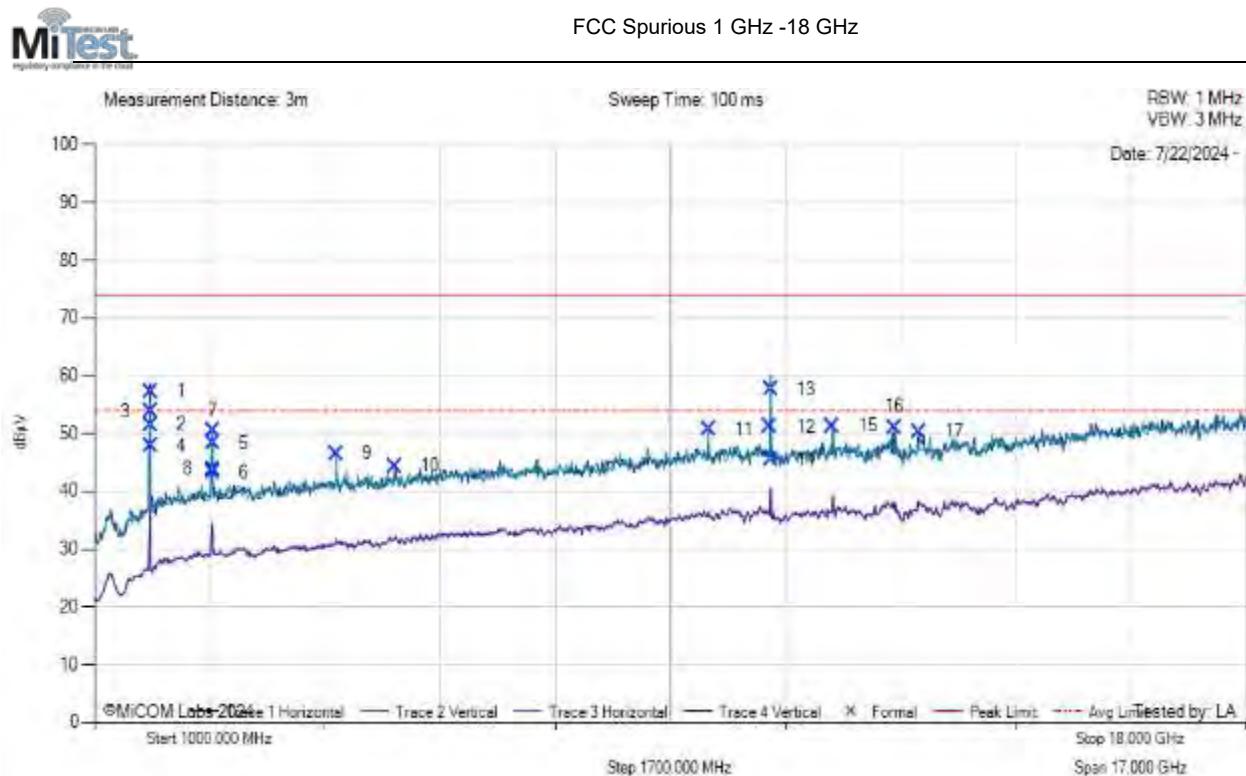
1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1804.99	69.40	1.71	-14.54	56.57	MaxP	Vertical	160	279	74.0	-17.4	Pass
2	1804.99	62.53	1.71	-14.54	49.70	AVG	Vertical	160	279	54.0	-4.3	Pass
3	1805.03	63.47	1.71	-14.54	50.65	MaxP	Horizontal	169	282	74.0	-23.4	Pass
4	1805.03	56.33	1.71	-14.54	43.50	AVG	Horizontal	169	282	54.0	-10.5	Pass
5	2700.00	59.66	2.06	32.43	49.97	MaxP	Vertical	149	59	74.0	-24.0	Pass
6	2700.00	58.87	2.06	32.43	49.18	MaxP	Horizontal	199	0	74.0	-24.8	Pass
7	4502.00	54.77	2.76	33.90	45.33	MaxP	Vertical	149	59	74.0	-28.7	Pass
8	9925.00	53.34	4.34	37.26	52.30	MaxP	Vertical	149	300	74.0	-21.7	Pass
9	10829.63	57.74	4.77	-4.59	57.92	MaxP	Vertical	150	298	74.0	-16.1	Pass
10	10829.63	48.12	4.77	-4.59	48.31	AVG	Vertical	150	298	54.0	-5.7	Pass
11	10829.72	52.98	4.77	-4.59	53.17	MaxP	Horizontal	149	58	74.0	-20.8	Pass
12	10829.72	43.59	4.77	-4.59	43.77	AVG	Horizontal	149	58	54.0	-10.2	Pass
13	11732.06	46.76	5.00	-6.48	45.28	MaxP	Horizontal	184	98	74.0	-28.7	Pass
14	11732.06	37.82	5.00	-6.48	36.34	AVG	Horizontal	184	98	54.0	-17.7	Pass
15	11732.24	58.67	5.00	-6.48	57.19	MaxP	Vertical	153	302	74.0	-16.8	Pass
16	11732.24	48.46	5.00	-6.48	46.98	AVG	Vertical	153	302	54.0	-7.0	Pass
17	12645.00	52.39	5.42	39.03	50.65	MaxP	Vertical	149	59	74.0	-23.4	Pass
18	17915.00	46.43	6.67	41.55	54.38	MaxP	Vertical	149	0	74.0	-19.6	Pass

**Test Notes:** SN: 2935662-13, GSFK 902.4MHz, 300 kbps, 1-18G, Power Level 3

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

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	915.2	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

## Test Measurement Results





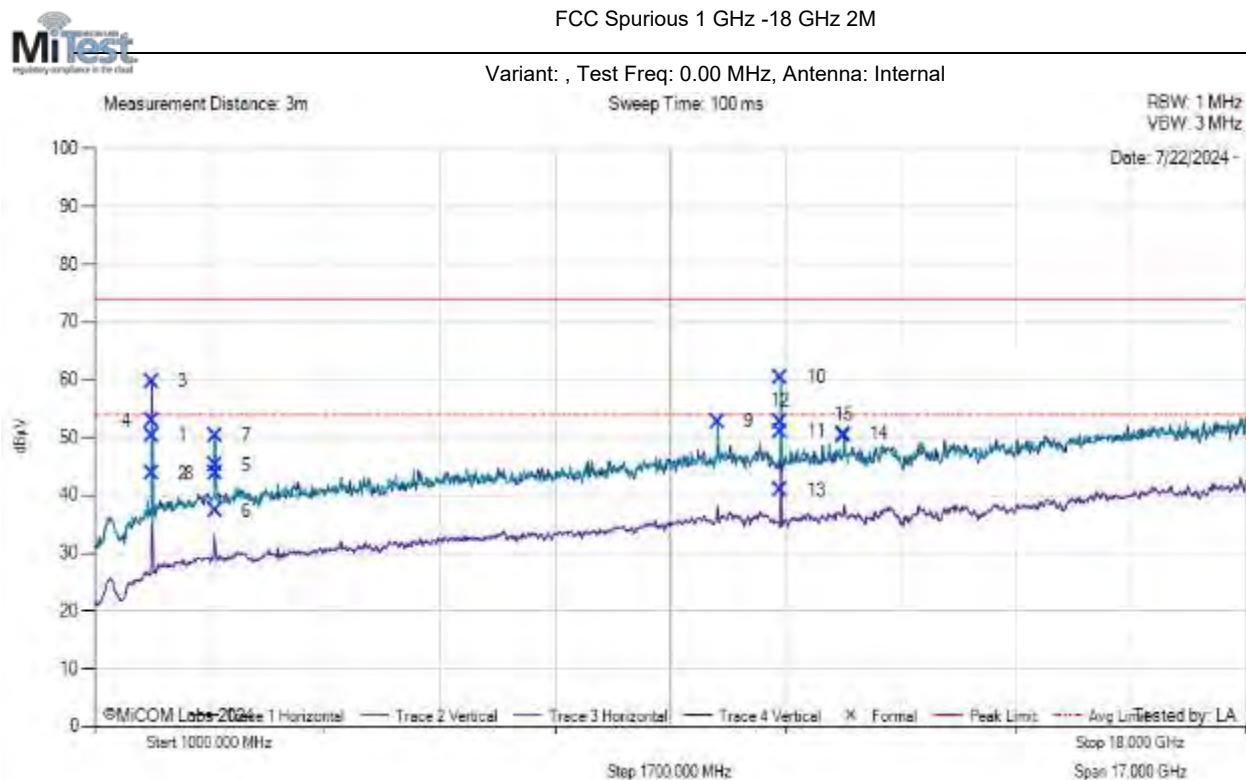
1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dB $\mu$ V	Cable Loss dB	AF dB/m	Level dB $\mu$ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB $\mu$ V/m	Margin dB	Pass /Fail
1	1830.50	69.93	1.75	-14.36	57.32	MaxP	Horizontal	162	275	74.0	-16.7	Pass
2	1830.50	64.12	1.75	-14.36	51.51	AVG	Horizontal	162	275	54.0	-2.5	Pass
3	1830.51	66.36	1.75	-14.36	53.75	MaxP	Vertical	182	296	74.0	-20.2	Pass
4	1830.51	60.38	1.75	-14.36	47.77	AVG	Vertical	182	296	54.0	-6.2	Pass
5	2745.43	58.01	2.11	-11.74	48.38	MaxP	Vertical	171	64	74.0	-25.6	Pass
6	2745.43	52.84	2.11	-11.74	43.21	AVG	Vertical	171	64	54.0	-10.8	Pass
7	2745.79	60.05	2.11	-11.74	50.41	MaxP	Horizontal	157	40	74.0	-23.6	Pass
8	2745.79	53.48	2.11	-11.74	43.85	AVG	Horizontal	157	40	54.0	-10.2	Pass
9	4570.00	55.95	2.80	33.97	46.48	MaxP	Vertical	149	59	74.0	-27.5	Pass
10	5437.00	52.55	3.04	34.51	44.31	MaxP	Horizontal	199	240	74.0	-29.7	Pass
11	10061.00	52.07	4.25	37.41	50.73	MaxP	Vertical	149	299	74.0	-23.3	Pass
12	10979.00	51.68	4.62	37.80	51.12	MaxP	Horizontal	199	30	74.0	-22.9	Pass
13	10983.38	58.23	4.53	-5.09	57.67	MaxP	Vertical	153	301	74.0	-16.3	Pass
14	10983.38	45.99	4.53	-5.09	45.43	AVG	Vertical	153	301	54.0	-8.6	Pass
15	11897.00	52.46	4.99	38.79	51.30	MaxP	Vertical	149	299	74.0	-22.7	Pass
16	12815.00	54.35	5.01	39.15	51.08	MaxP	Vertical	149	59	74.0	-22.9	Pass
17	13172.00	51.64	5.30	38.97	50.31	MaxP	Horizontal	149	180	74.0	-23.7	Pass

**Test Notes:** SN: 2935662-13, GSFK 915.2MHz, 300 kbps, 1-18G, Power Level 3

Equipment Configuration for FCC SPURIOUS 1 GHZ -18 GHZ

<b>Antenna:</b>	Internal	<b>Variant:</b>	500G DM
<b>Antenna Gain (dBi):</b>	Not Applicable	<b>Modulation:</b>	GFSK
<b>Beam Forming Gain (Y):</b>	Not Applicable	<b>Duty Cycle (%):</b>	99
<b>Channel Frequency (MHz):</b>	927.6	<b>Data Rate:</b>	300 kbps
<b>Power Setting:</b>	Power Level 3	<b>Tested By:</b>	LA

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	1855.22	62.78	1.72	-14.14	50.36	MaxP	Vertical	152	76	74.0	-23.6	Pass
2	1855.22	56.14	1.72	-14.14	43.73	AVG	Vertical	152	76	54.0	-10.3	Pass
3	1855.36	72.07	1.72	-14.14	59.65	MaxP	Horizontal	152	272	74.0	-14.3	Pass
4	1855.36	65.30	1.72	-14.14	52.88	AVG	Horizontal	152	272	54.0	-1.1	Pass
5	2782.75	54.79	2.12	-11.78	45.13	MaxP	Vertical	157	71	74.0	-28.9	Pass
6	2782.75	46.96	2.12	-11.78	37.30	AVG	Vertical	157	71	54.0	-16.7	Pass
7	2782.99	60.04	2.12	-11.78	50.38	MaxP	Horizontal	184	21	74.0	-23.6	Pass
8	2782.99	53.44	2.12	-11.78	43.78	AVG	Horizontal	184	21	54.0	-10.2	Pass
9	10197.00	53.66	4.37	37.46	52.76	MaxP	Vertical	149	300	74.0	-21.2	Pass
10	11132.08	61.70	4.57	-5.85	60.42	MaxP	Vertical	150	298	74.0	-13.6	Pass
11	11132.08	52.30	4.57	-5.85	51.02	AVG	Vertical	150	298	54.0	-3.0	Pass
12	11132.13	54.05	4.57	-5.85	52.78	MaxP	Horizontal	198	29	74.0	-21.2	Pass
13	11132.13	42.08	4.57	-5.85	40.81	AVG	Horizontal	198	29	54.0	-13.2	Pass
14	12067.00	51.25	4.90	38.92	50.56	MaxP	Vertical	149	300	74.0	-23.4	Pass
15	12067.00	51.04	4.90	38.92	50.35	MaxP	Horizontal	199	120	74.0	-23.6	Pass

**Test Notes:** SN: 2935662-13, GSFK 927.6MHz, 300 kbps, 1-18G, Power Level 3

## **10. Manufacturer Dwell Time & Channel Occupancy Declaration**

**Note:** Dwell Time and Channel Occupancy were not tested as part of this test program, these were declared for normal network operation by Itron in the following document provided as an exhibit in support of this test program.

“BPD Time of Use and Equal Usage” 800-0016 Version 06 Dated 29<sup>th</sup> November 2023

This document contains Dwell & Occupancy times as compliant for the following operation modes declared by the manufacturer for the Itron 500G ERT® Module in normal operation.

- 1) 100S Mode pages 7 to 9
- 2) Local Port Mode pages 10 to 12;
- 3) BACT Mode Pages P13 to P17,
- 4) EFC/ EFC + Mode P18 to 20.
- 5) INS Mode Pages 21 to 22.

## 11. Manufacturer Declaration of Similarity



Aug 1, 2024

Itron, Inc.  
2401 N. State St.  
Waseca, MN 56093  
507-781-4300  
www.itron.com

Subject: Declaration of Similarity:  
FCC ID: EWQ500GTC,  
ISED ID: 864D-500GTC

Dear Sir or Madam,

We declare the product models listed below are electrically identical.

Product Information	
Marketing Name(s)	500G ERT Module
Description	Utility AMR device
Models(s)	ERG-7600-007, ERG-7600-008

The only difference between these variant models is the housing and the gas meter wriggler interface. The differences of these variants does not affect any RF or EMC performance.

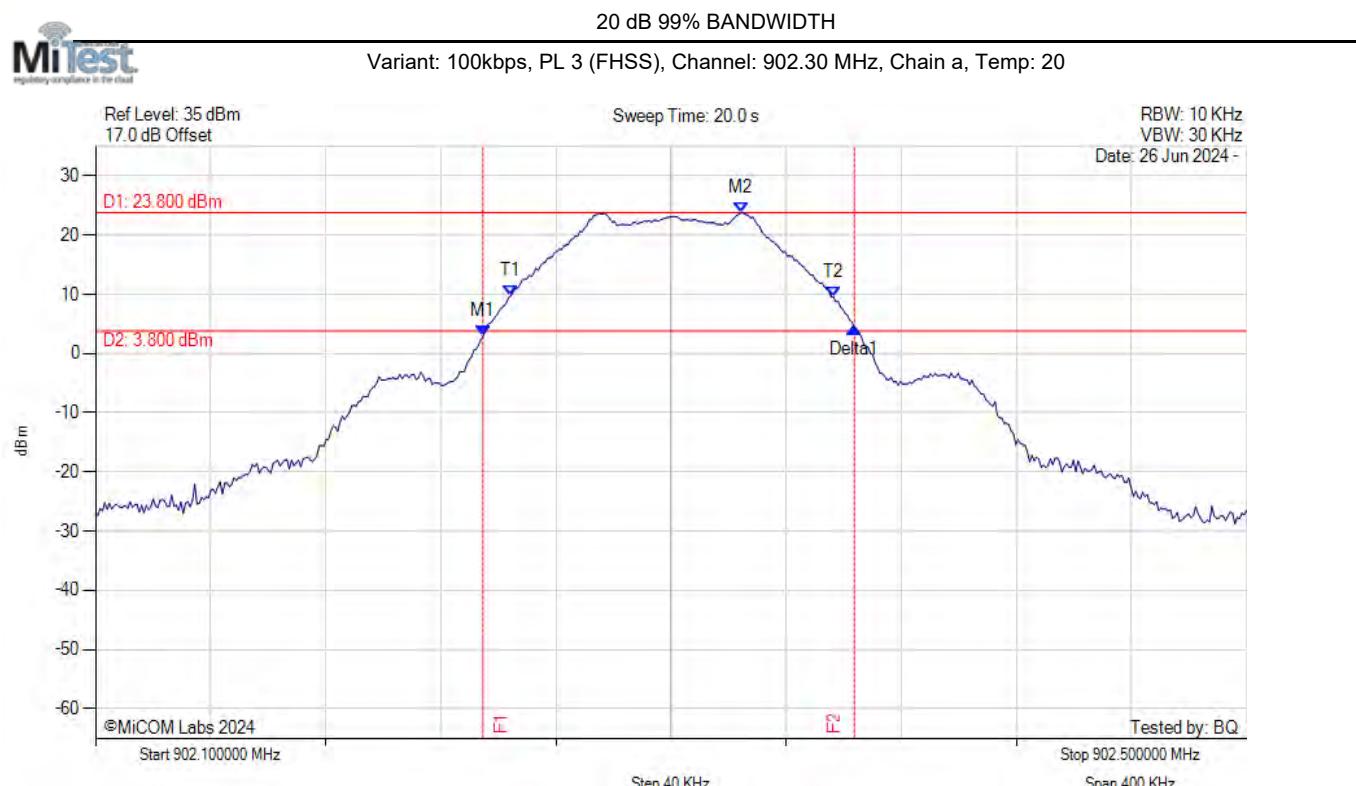
Sincerely,



Dan Bomsta  
Sr. Principal Regulatory Engineer  
507-781-4480  
dan.bomsta@itron.com  
Itron, Inc.

## A. APPENDIX - GRAPHICAL IMAGES

### A.1. 20 dB & 99% Bandwidth



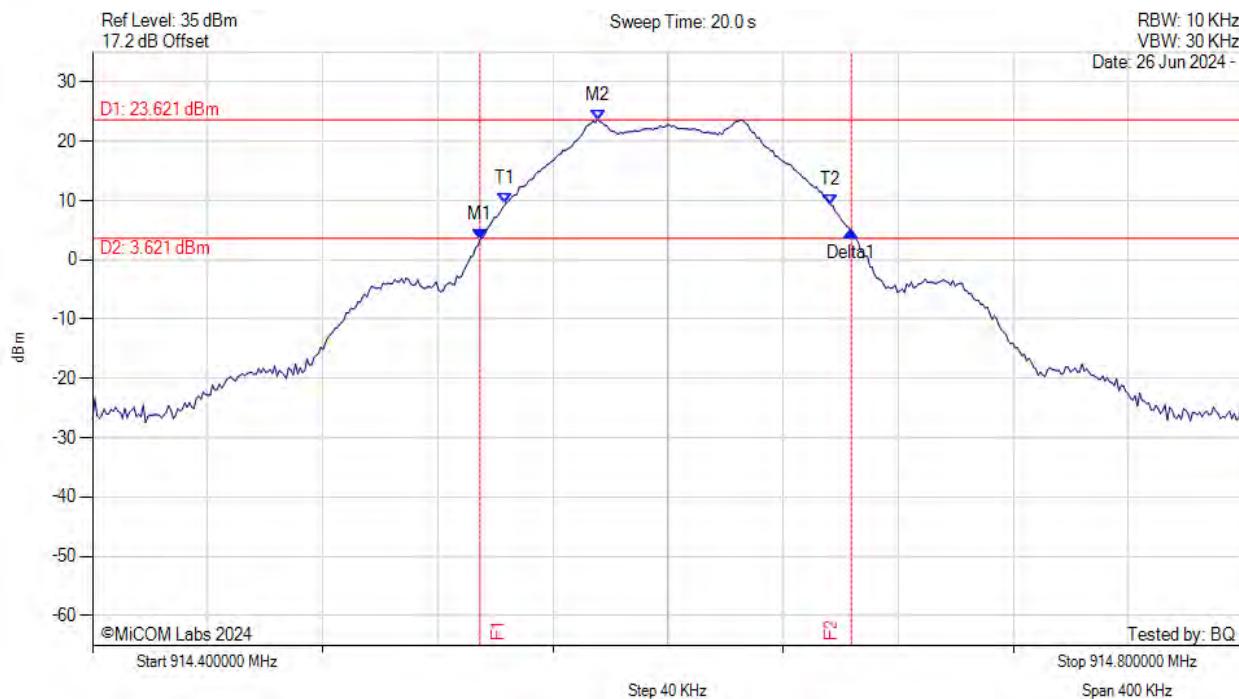
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.235 MHz : 2.877 dBm M2 : 902.324 MHz : 23.800 dBm Delta1 : 129 KHz : 1.507 dB T1 : 902.244 MHz : 9.714 dBm T2 : 902.357 MHz : 9.499 dBm OBW : 112 KHz	Measured 20 dB Bandwidth: 0.129 MHz Limit: 0.5 kHz Margin: 0.37 MHz

[back to matrix](#)

20 dB 99% BANDWIDTH



Variant: 100kbps, PL 3 (FHSS), Channel: 914.60 MHz, Chain a, Temp: 20



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 914.535 MHz : 3.489 dBm M2 : 914.576 MHz : 23.621 dBm Delta1 : 129 KHz : 1.338 dB T1 : 914.543 MHz : 9.422 dBm T2 : 914.657 MHz : 9.277 dBm OBW : 113 KHz	Measured 20 dB Bandwidth: 0.129 MHz Limit: 0.5 kHz Margin: 0.37 MHz

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20 dB 99% BANDWIDTH



Variant: 100kbps, PL 3 (FHSS), Channel: 926.90 MHz, Chain a, Temp: 20

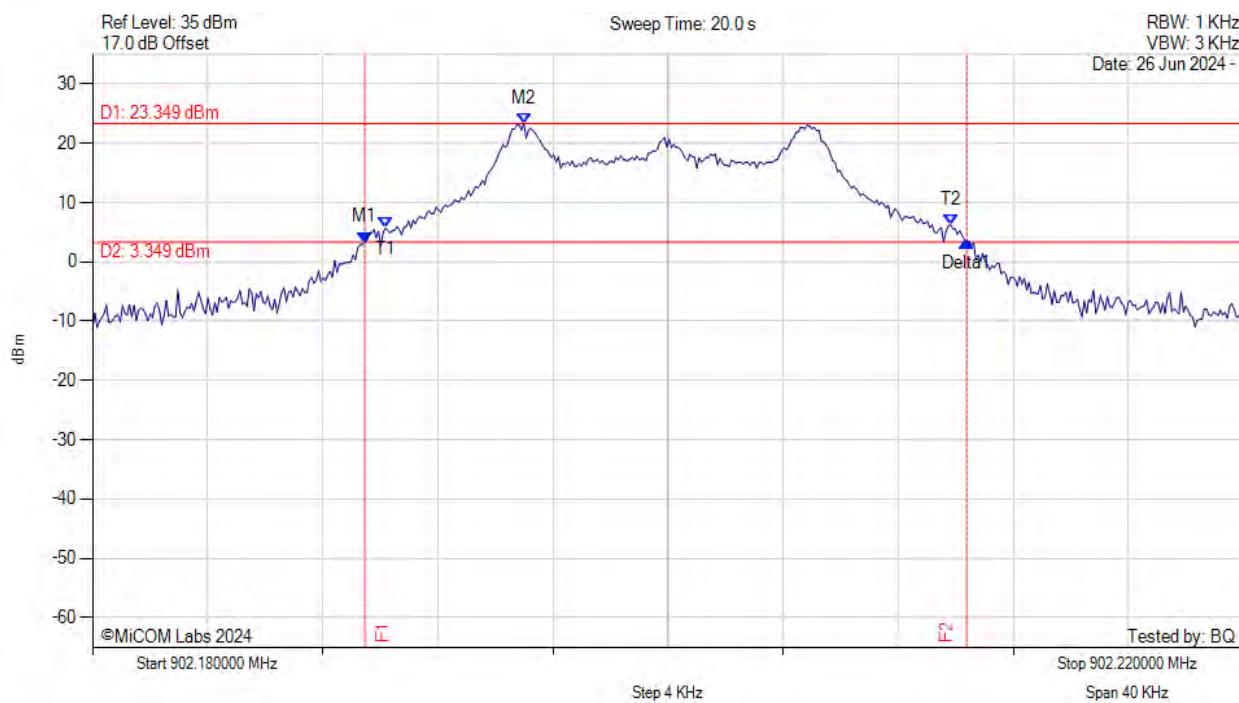


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 926.836 MHz : 2.698 dBm M2 : 926.926 MHz : 22.850 dBm Delta1 : 127 KHz : 1.359 dB T1 : 926.845 MHz : 8.842 dBm T2 : 926.956 MHz : 8.982 dBm OBW : 111 KHz	Measured 20 dB Bandwidth: 0.127 MHz Limit: 0.5 kHz Margin: 0.37 MHz

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20 dB 99% BANDWIDTH

Variant: 10kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



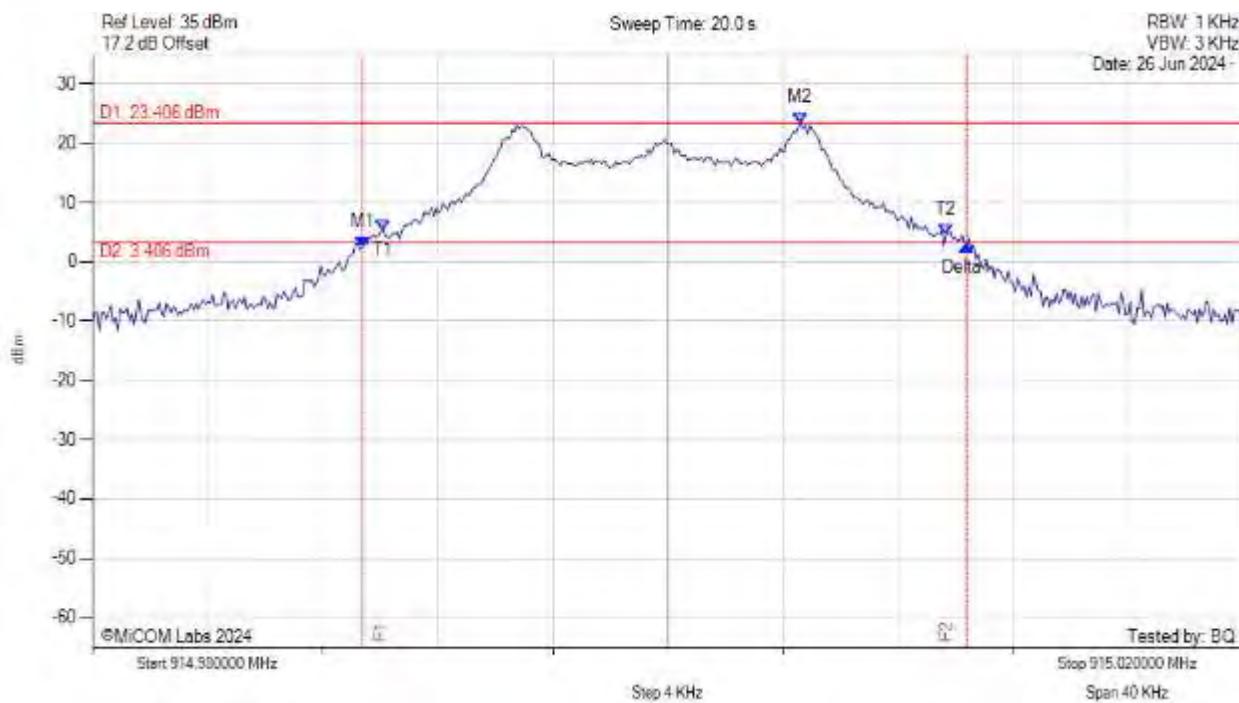
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.189 MHz : 3.304 dBm M2 : 902.195 MHz : 23.349 dBm Delta1 : 21 KHz : 0.140 dB T1 : 902.190 MHz : 5.669 dBm T2 : 902.210 MHz : 6.251 dBm OBW : 20 KHz	Measured 20 dB Bandwidth: 0.021 MHz Limit: 0.5 kHz Margin: 0.48 MHz

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20 dB 99% BANDWIDTH



Variant: 10kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



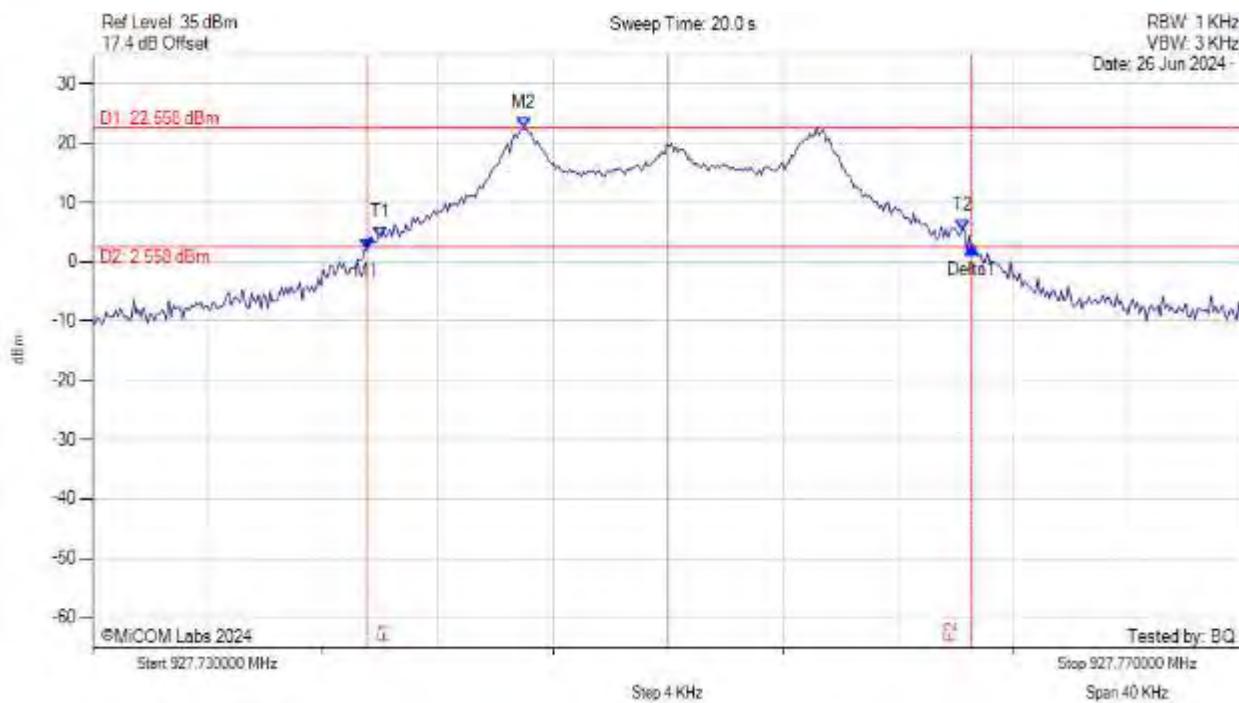
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 914.989 MHz : 2.423 dBm M2 : 915.005 MHz : 23.406 dBm Delta1 : 21 KHz : 0.293 dB T1 : 914.990 MHz : 5.417 dBm T2 : 915.010 MHz : 4.600 dBm OBW : 20 KHz	Measured 20 dB Bandwidth: 0.021 MHz Limit: 0.5 kHz Margin: 0.48 MHz

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20 dB 99% BANDWIDTH



Variant: 10kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



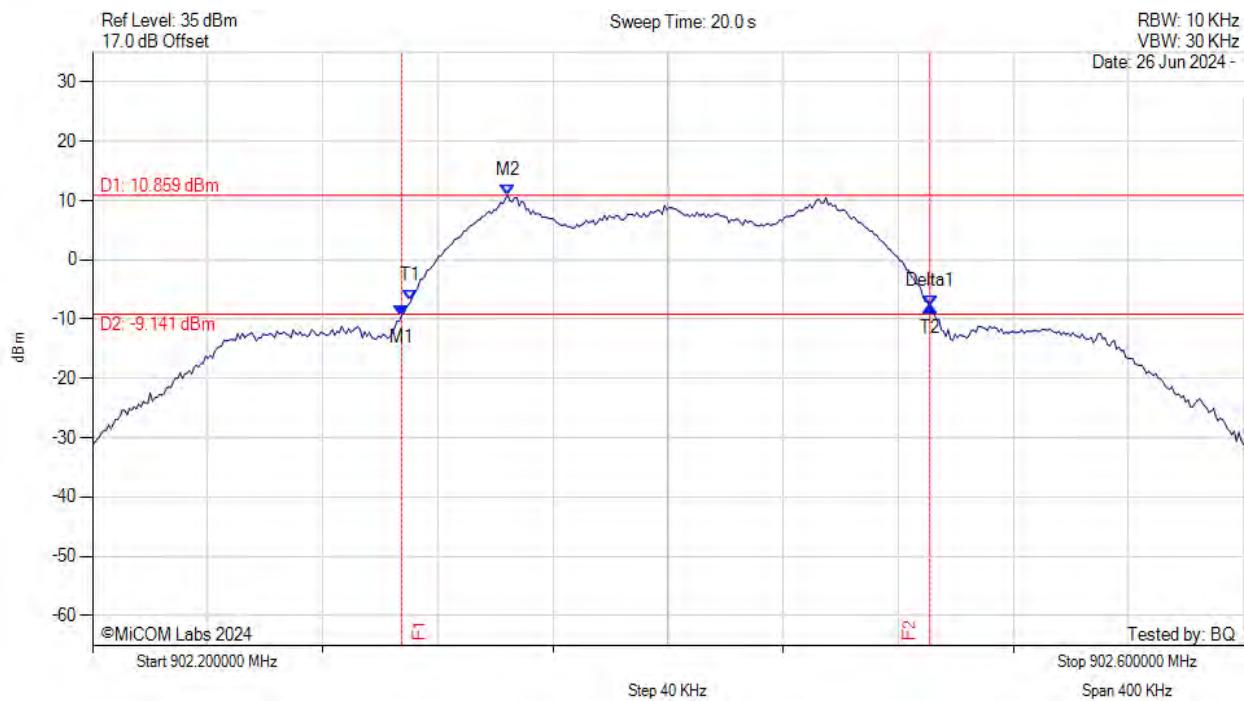
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 927.740 MHz : 1.982 dBm M2 : 927.745 MHz : 22.558 dBm Delta1 : 21 KHz : 0.283 dB T1 : 927.740 MHz : 4.085 dBm T2 : 927.760 MHz : 5.281 dBm OBW : 20 KHz	Measured 20 dB Bandwidth: 0.021 MHz Limit: 0.5 kHz Margin: 0.48 MHz

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20 dB 99% BANDWIDTH



Variant: 150kbps, PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



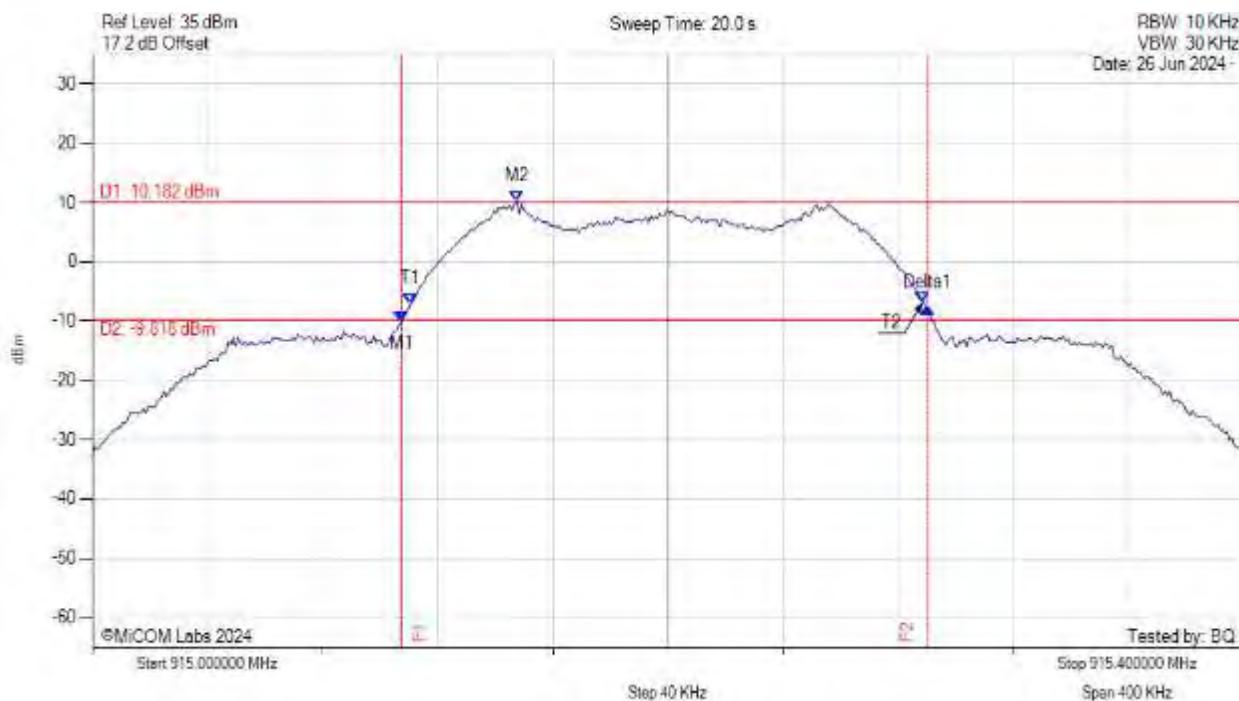
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.307 MHz : -9.415 dBm M2 : 902.344 MHz : 10.859 dBm Delta1 : 184 KHz : 1.607 dB T1 : 902.311 MHz : -6.962 dBm T2 : 902.491 MHz : -7.808 dBm OBW : 180 KHz	Measured 20 dB Bandwidth: 0.184 MHz Limit: 0.5 kHz Margin: 0.32 MHz

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20 dB 99% BANDWIDTH



Variant: 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



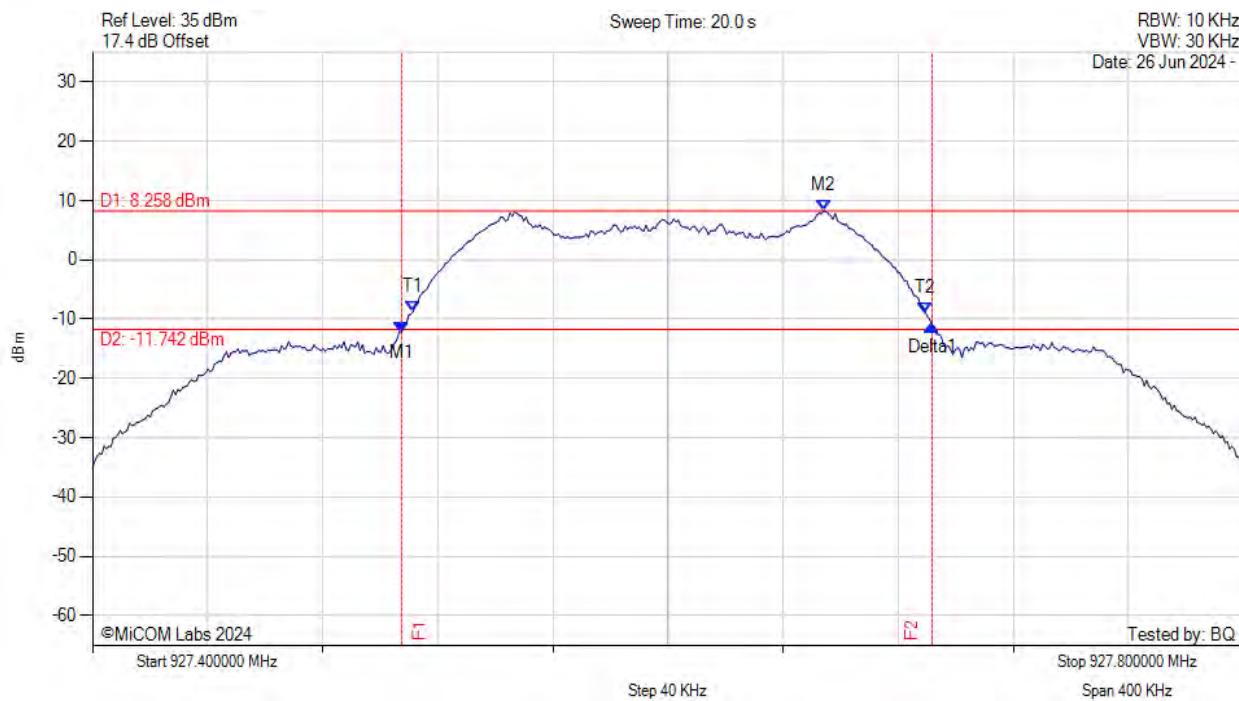
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 915.107 MHz : -10.222 dBm M2 : 915.147 MHz : 10.182 dBm Delta1 : 183 KHz : 2.477 dB T1 : 915.111 MHz : -7.113 dBm T2 : 915.289 MHz : -6.747 dBm OBW : 178 KHz	Measured 20 dB Bandwidth: 0.183 MHz Limit: 0.5 kHz Margin: 0.32 MHz

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20 dB 99% BANDWIDTH



Variant: 150kbps, PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20



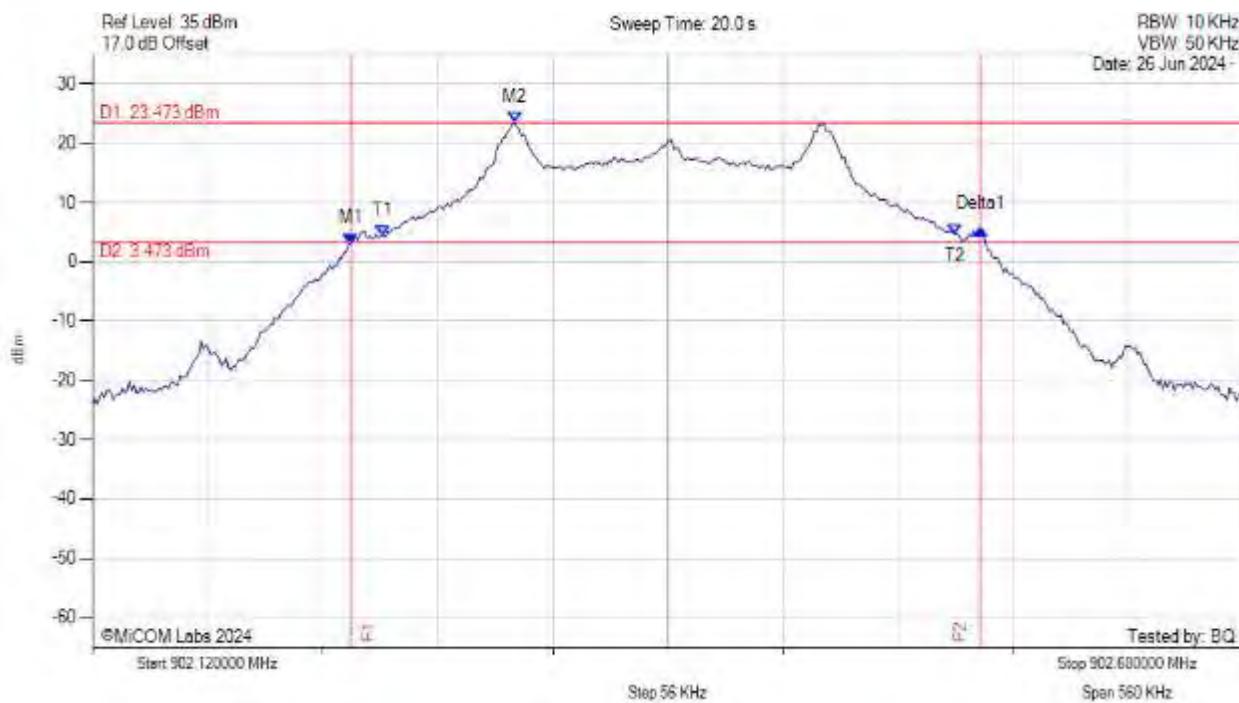
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 927.507 MHz : -12.138 dBm M2 : 927.654 MHz : 8.258 dBm Delta1 : 184 KHz : 1.051 dB T1 : 927.511 MHz : -8.699 dBm T2 : 927.689 MHz : -8.925 dBm OBW : 178 KHz	Measured 20 dB Bandwidth: 0.184 MHz Limit: 0.5 kHz Margin: 0.32 MHz

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20 dB 99% BANDWIDTH



Variant: 150kbps, PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



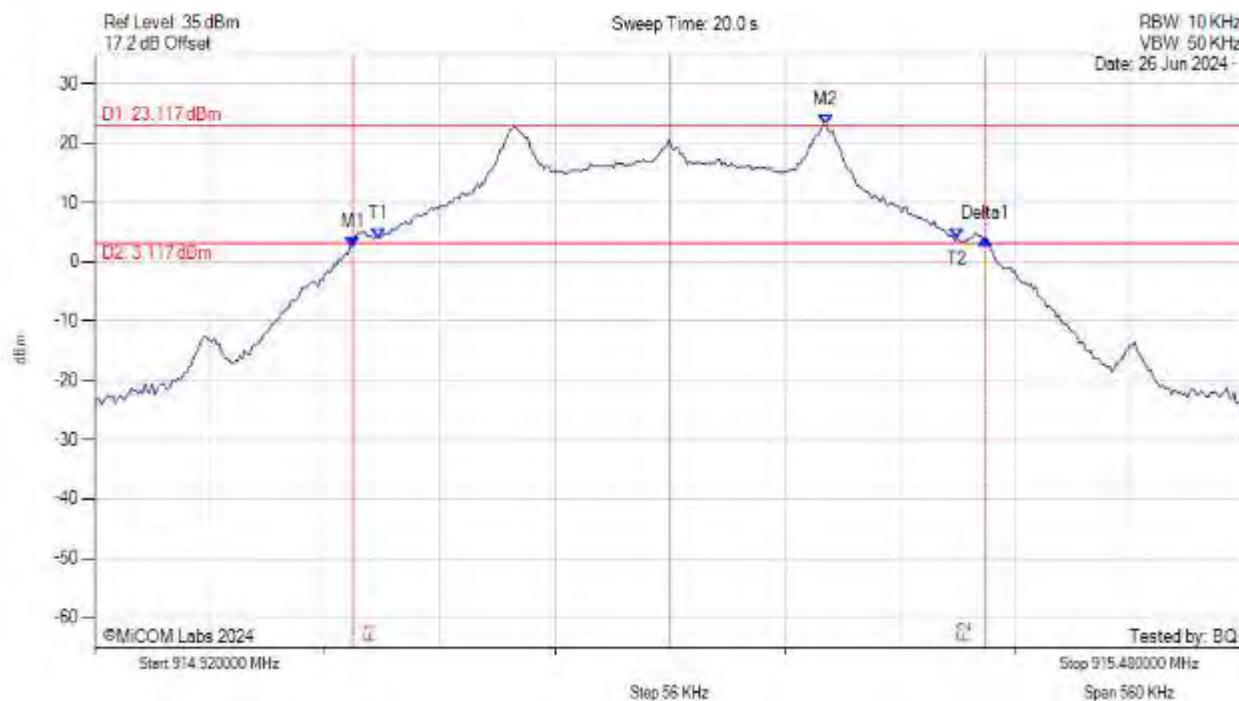
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.246 MHz : 3.060 dBm M2 : 902.325 MHz : 23.473 dBm Delta1 : 306 KHz : 2.499 dB T1 : 902.261 MHz : 4.368 dBm T2 : 902.540 MHz : 4.618 dBm OBW : 278 KHz	Measured 20 dB Bandwidth: 0.306 MHz Limit: 0.5 kHz Margin: 0.19 MHz

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20 dB 99% BANDWIDTH



Variant: 150kbps, PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



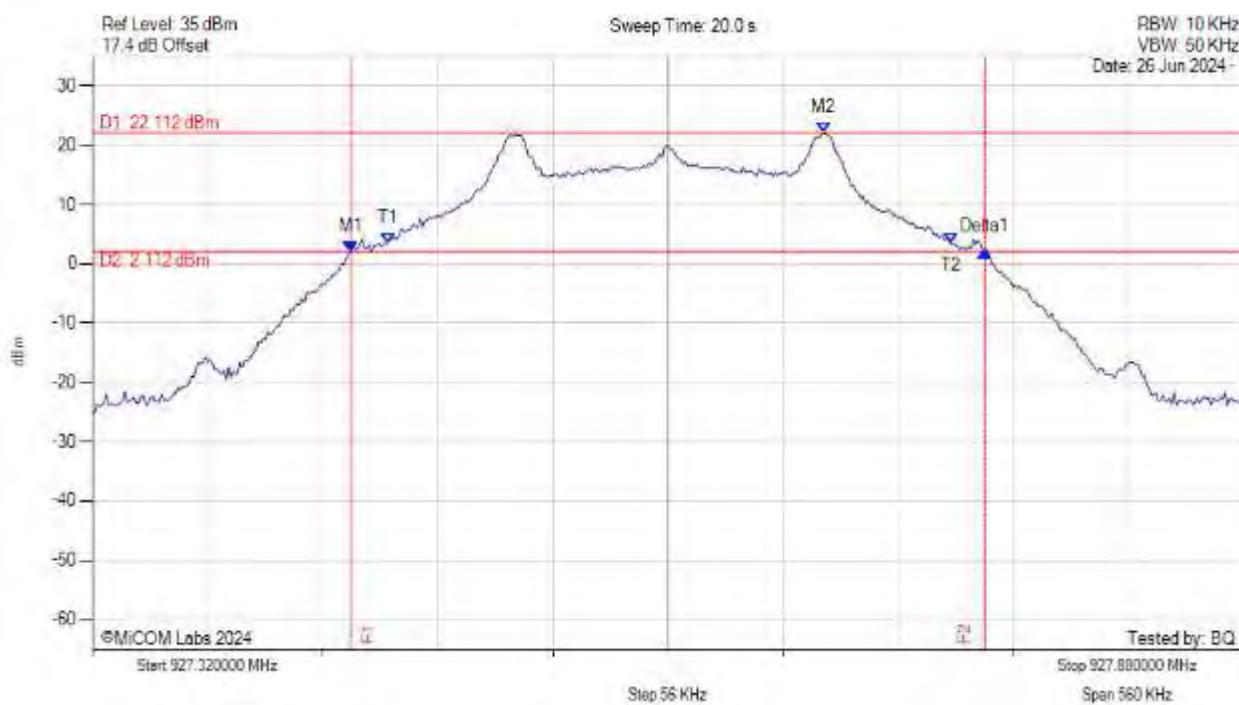
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 915.046 MHz : 2.570 dBm M2 : 915.276 MHz : 23.117 dBm Delta1 : 307 KHz : 1.365 dB T1 : 915.058 MHz : 3.926 dBm T2 : 915.340 MHz : 3.967 dBm OBW : 282 KHz	Measured 20 dB Bandwidth: 0.307 MHz Limit: 0.5 kHz Margin: 0.19 MHz

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20 dB 99% BANDWIDTH



Variant: 150kbps, PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



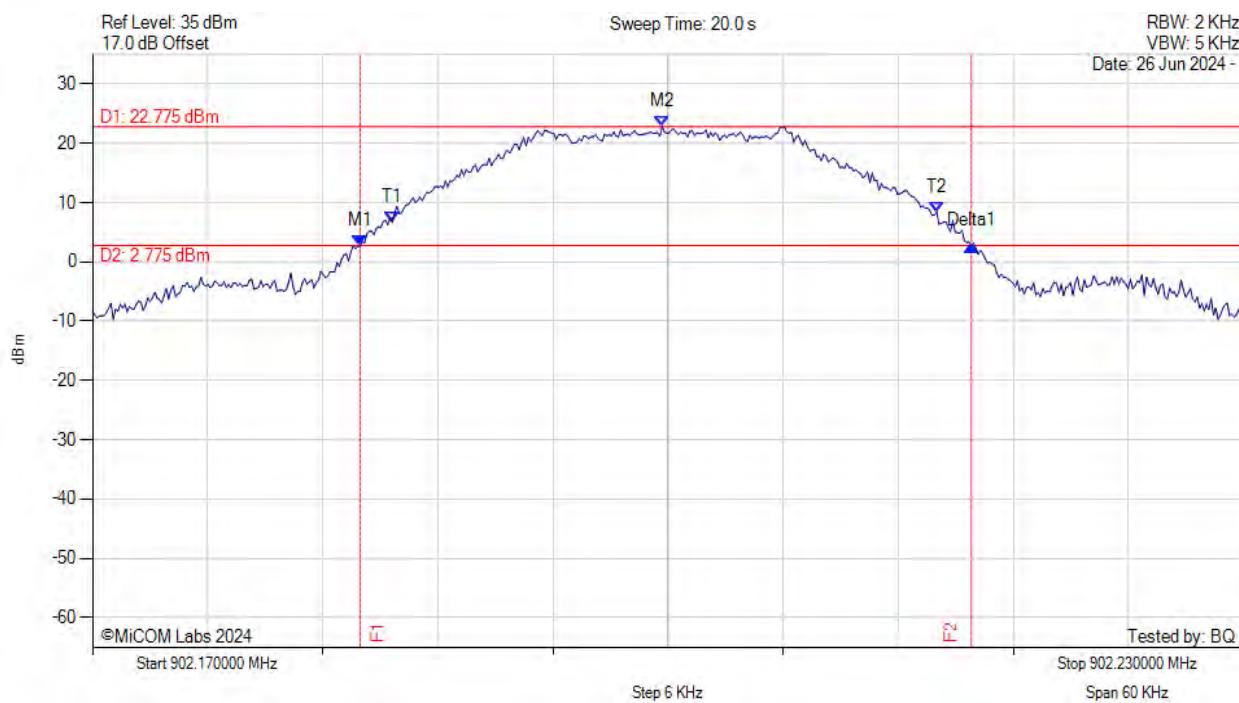
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 927.446 MHz : 2.049 dBm M2 : 927.676 MHz : 22.112 dBm Delta1 : 309 KHz : -0.079 dB T1 : 927.464 MHz : 3.418 dBm T2 : 927.737 MHz : 3.353 dBm OBW : 274 KHz	Measured 20 dB Bandwidth: 0.309 MHz Limit: 0.5 kHz Margin: 0.19 MHz

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20 dB 99% BANDWIDTH



Variant: 25kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20

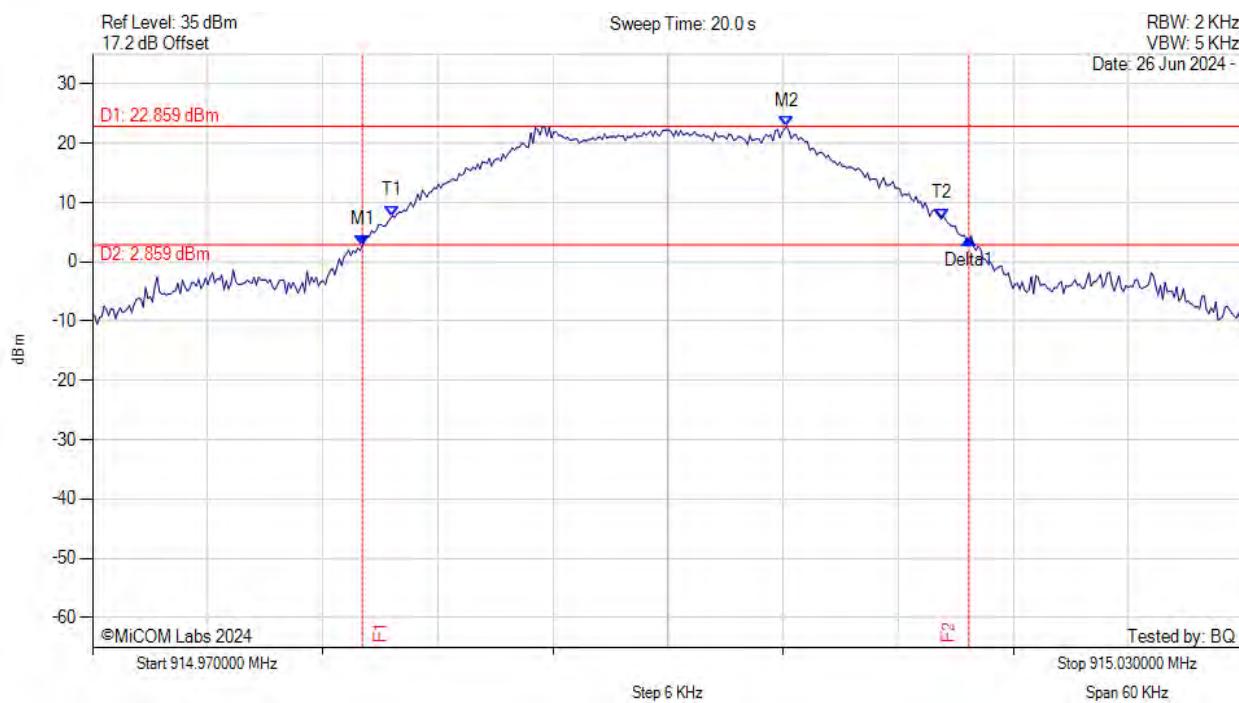


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.184 MHz : 2.643 dBm M2 : 902.200 MHz : 22.775 dBm Delta1 : 32 KHz : 0.083 dB T1 : 902.186 MHz : 6.643 dBm T2 : 902.214 MHz : 8.425 dBm OBW : 28 KHz	Measured 20 dB Bandwidth: 0.032 MHz Limit: 0.5 kHz Margin: 0.47 MHz

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20 dB 99% BANDWIDTH

Variant: 25kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20

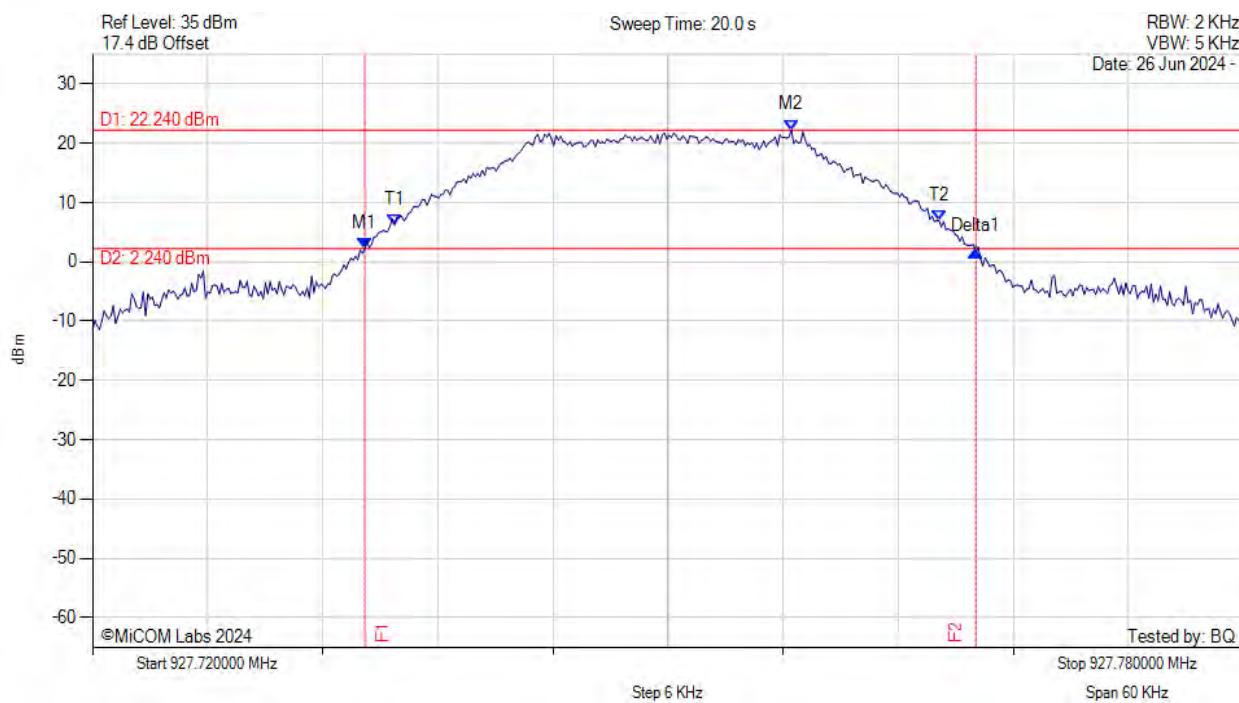


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 914.984 MHz : 2.832 dBm M2 : 915.006 MHz : 22.859 dBm Delta1 : 32 KHz : 1.009 dB T1 : 914.986 MHz : 7.742 dBm T2 : 915.014 MHz : 7.266 dBm OBW : 29 KHz	Measured 20 dB Bandwidth: 0.032 MHz Limit: 0.5 kHz Margin: 0.47 MHz

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20 dB 99% BANDWIDTH

Variant: 25kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



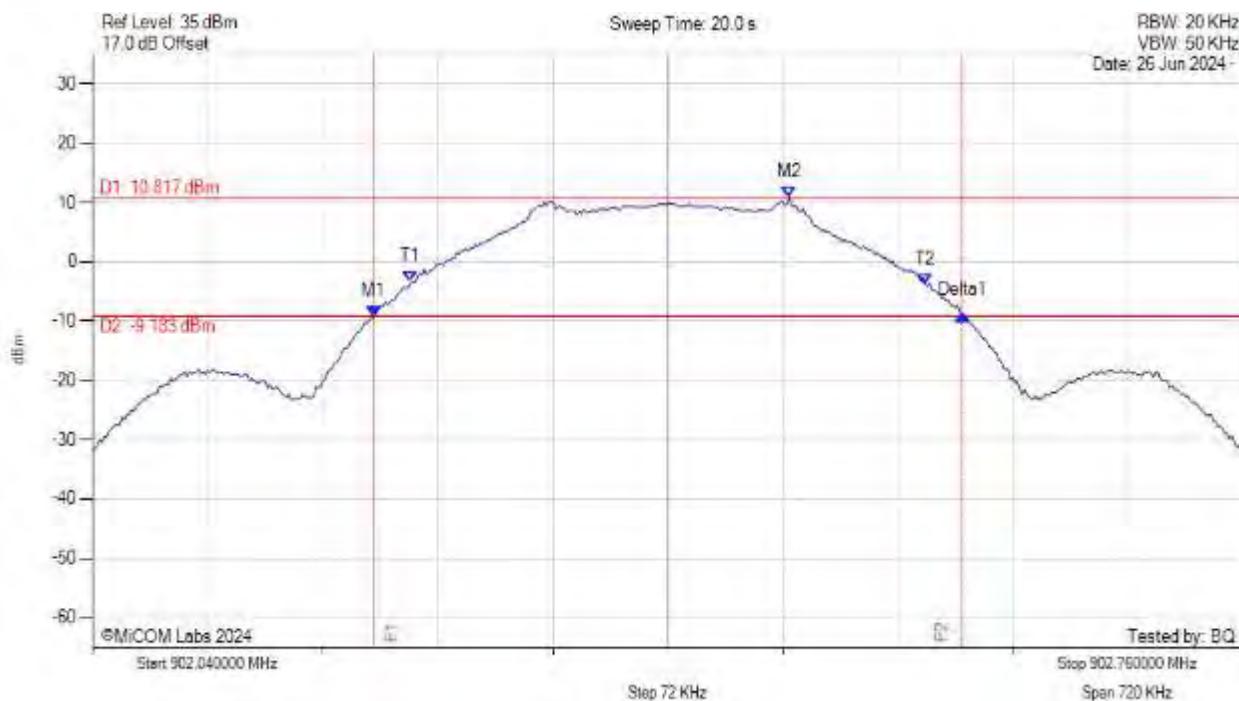
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 927.734 MHz : 2.198 dBm M2 : 927.756 MHz : 22.240 dBm Delta1 : 32 KHz : -0.407 dB T1 : 927.736 MHz : 6.172 dBm T2 : 927.764 MHz : 7.005 dBm OBW : 28 KHz	Measured 20 dB Bandwidth: 0.032 MHz Limit: 0.5 kHz Margin: 0.47 MHz

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20 dB 99% BANDWIDTH



Variant: 300kbps PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



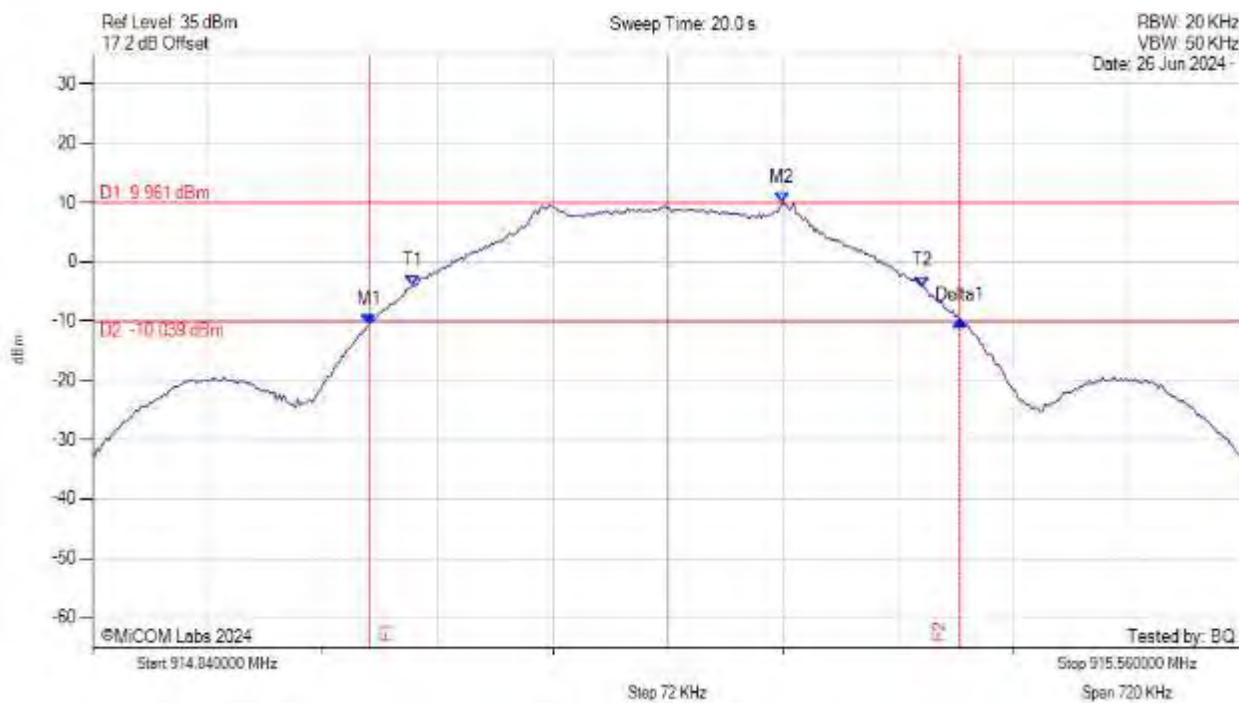
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.216 MHz : -9.234 dBm M2 : 902.476 MHz : 10.817 dBm Delta1 : 368 KHz : 0.348 dB T1 : 902.239 MHz : -3.444 dBm T2 : 902.561 MHz : -3.777 dBm OBW : 322 KHz	Measured 20 dB Bandwidth: 0.368 MHz Limit: 0.5 kHz Margin: 0.13 MHz

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20 dB 99% BANDWIDTH



Variant: 300kbps PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20

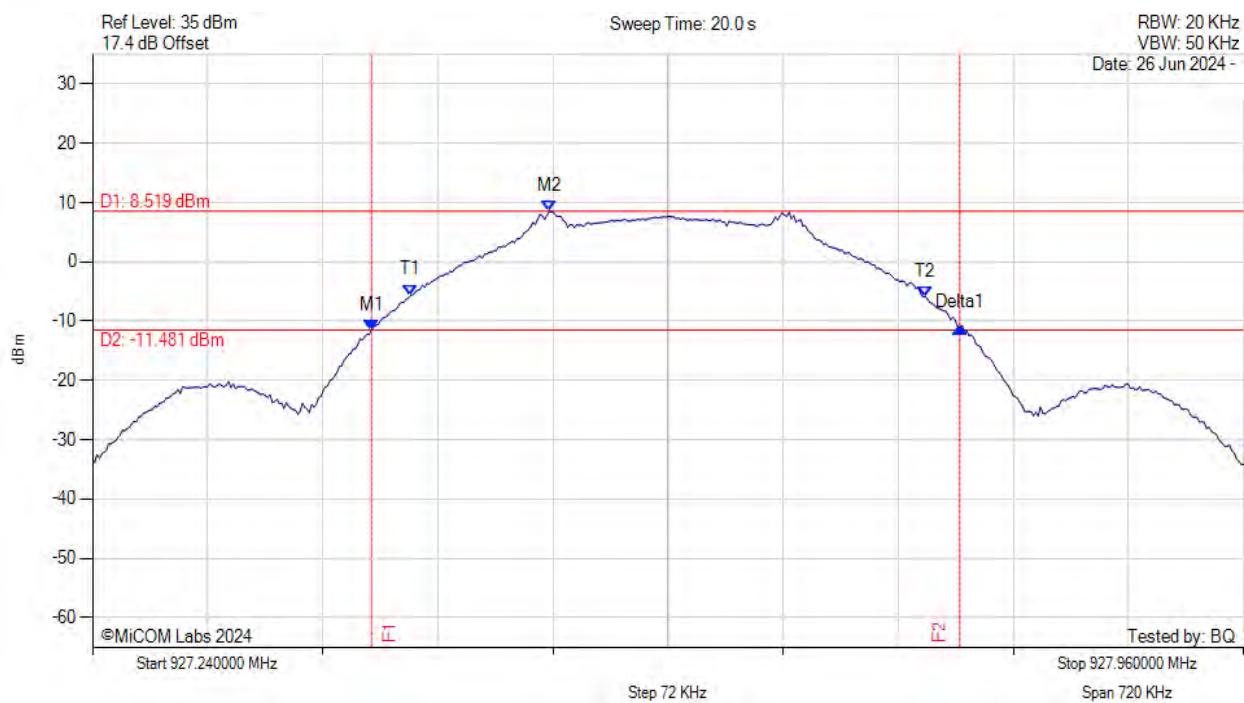


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 915.013 MHz : -10.501 dBm M2 : 915.271 MHz : 9.961 dBm Delta1 : 369 KHz : 0.696 dB T1 : 915.041 MHz : -4.036 dBm T2 : 915.359 MHz : -4.172 dBm OBW : 319 KHz	Measured 20 dB Bandwidth: 0.369 MHz Limit: 0.5 kHz Margin: 0.13 MHz

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20 dB 99% BANDWIDTH

Variant: 300kbps PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20

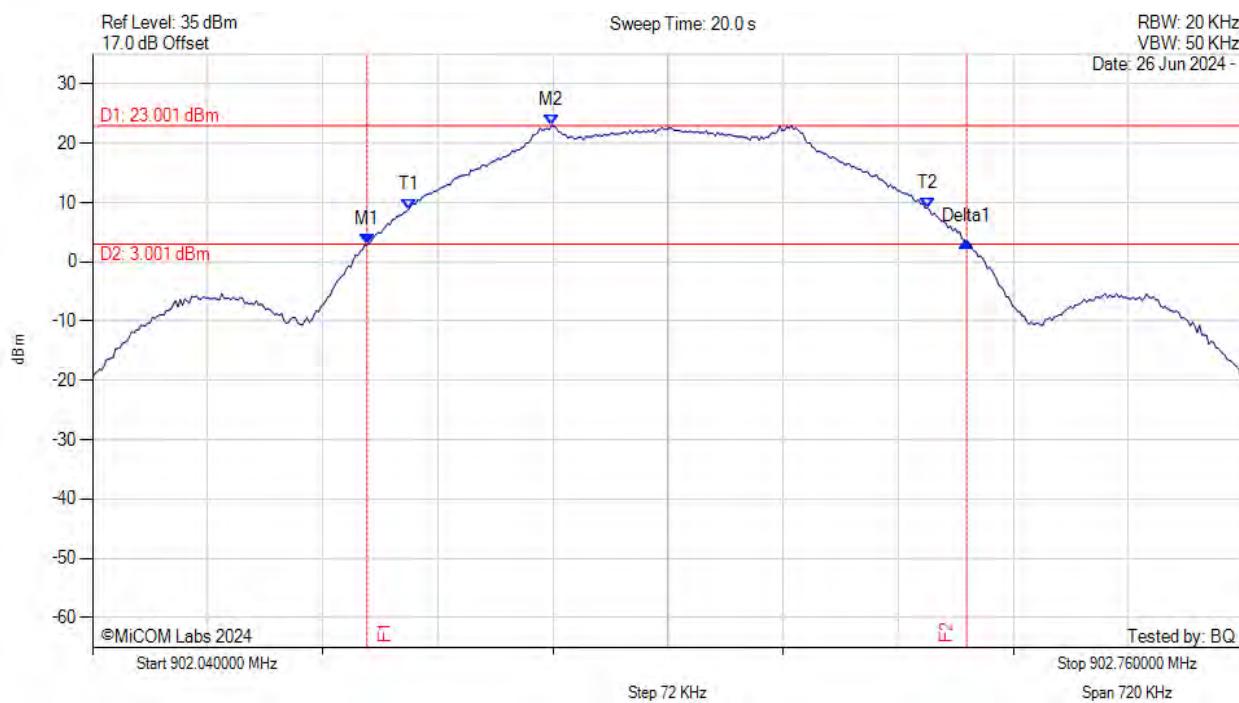


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 927.415 MHz : -11.546 dBm M2 : 927.526 MHz : 8.519 dBm Delta1 : 368 KHz : 0.559 dB T1 : 927.439 MHz : -5.581 dBm T2 : 927.761 MHz : -5.874 dBm OBW : 322 KHz	Measured 20 dB Bandwidth: 0.368 MHz Limit: 0.5 kHz Margin: 0.13 MHz

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20 dB 99% BANDWIDTH

Variant: 300kbps PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20

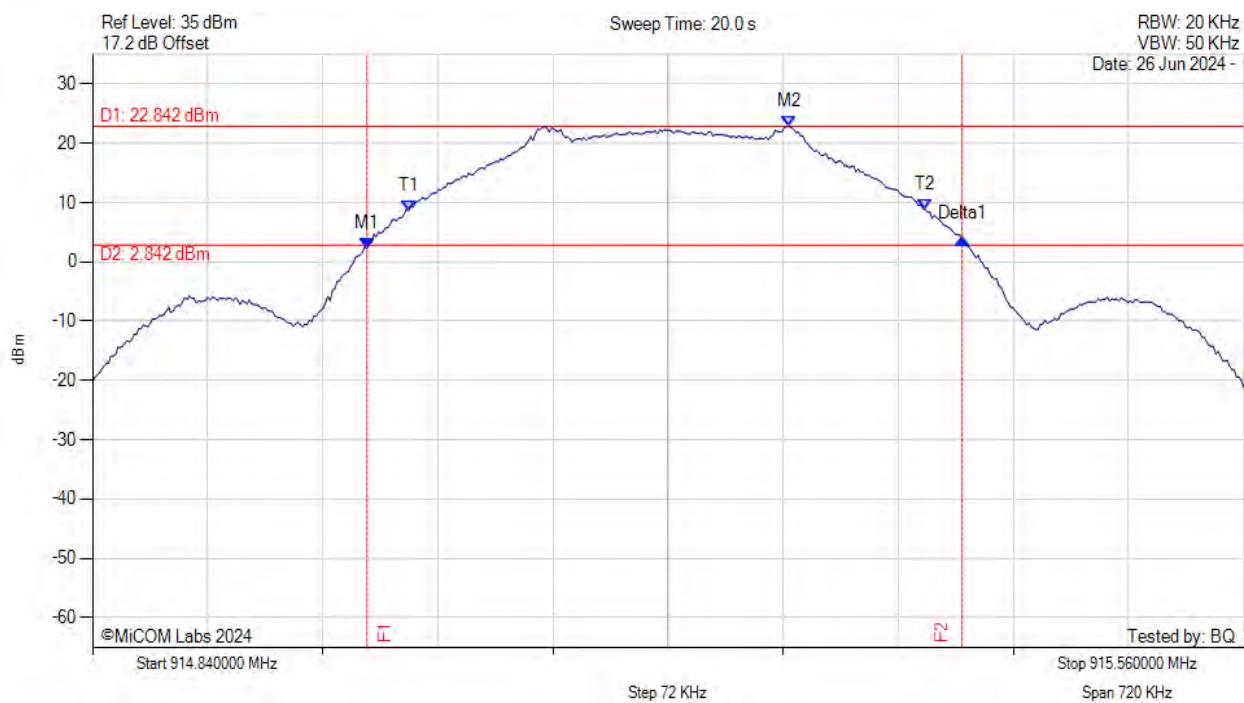


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.212 MHz : 2.924 dBm M2 : 902.327 MHz : 23.001 dBm Delta1 : 375 KHz : 0.484 dB T1 : 902.238 MHz : 8.862 dBm T2 : 902.562 MHz : 9.068 dBm OBW : 325 KHz	Measured 20 dB Bandwidth: 0.375 MHz Limit: 0.5 kHz Margin: 0.13 MHz

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20 dB 99% BANDWIDTH

Variant: 300kbps PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20

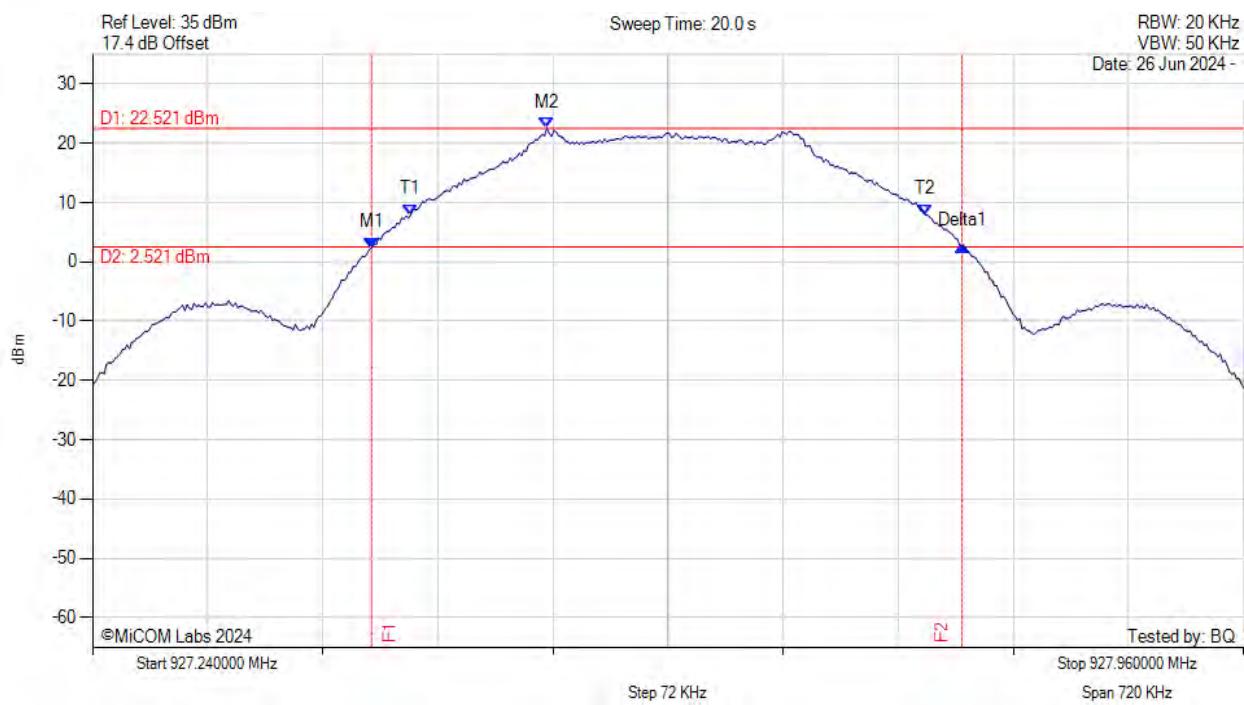


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 915.012 MHz : 2.308 dBm M2 : 915.276 MHz : 22.842 dBm Delta1 : 372 KHz : 1.523 dB T1 : 915.038 MHz : 8.641 dBm T2 : 915.361 MHz : 8.811 dBm OBW : 323 KHz	Measured 20 dB Bandwidth: 0.372 MHz Limit: 0.5 kHz Margin: 0.13 MHz

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20 dB 99% BANDWIDTH

Variant: 300kbps PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



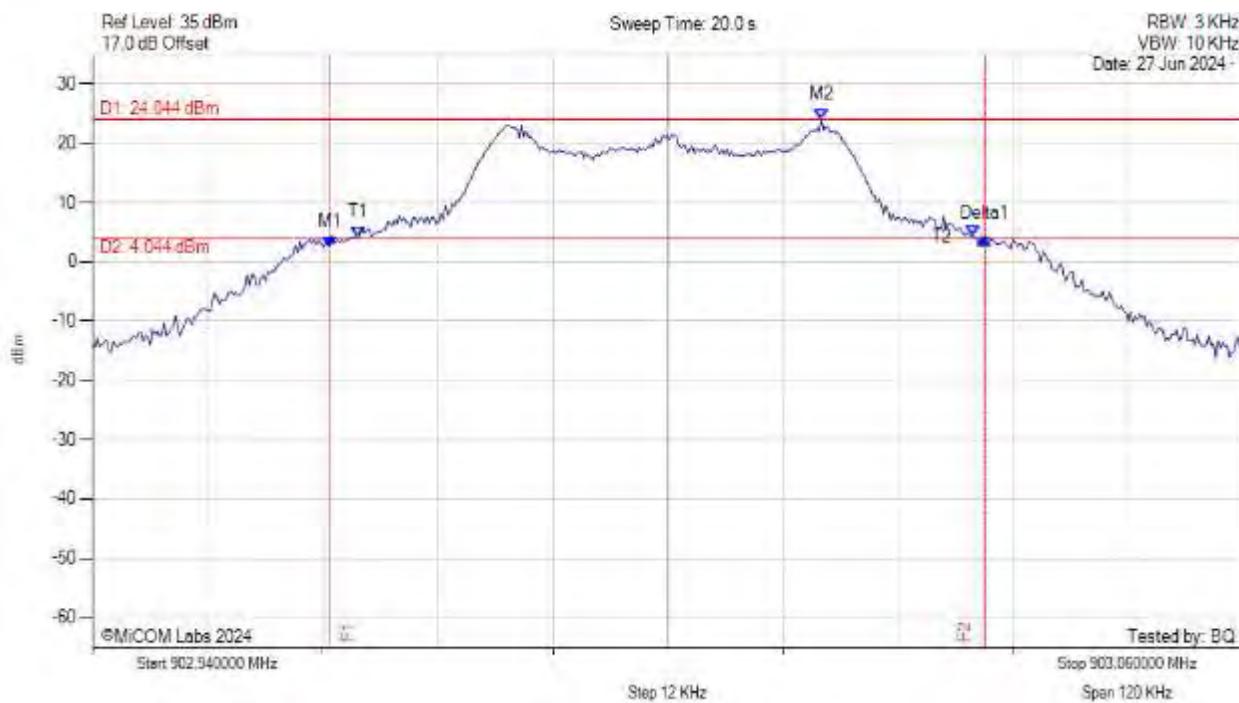
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 927.415 MHz : 2.371 dBm M2 : 927.524 MHz : 22.521 dBm Delta1 : 369 KHz : 0.281 dB T1 : 927.439 MHz : 7.980 dBm T2 : 927.761 MHz : 7.974 dBm OBW : 322 KHz	Measured 20 dB Bandwidth: 0.369 MHz Limit: 0.5 kHz Margin: 0.13 MHz

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20 dB 99% BANDWIDTH



Variant: 37.5kbps, PL 3 (FHSS), Channel: 903.00 MHz, Chain a, Temp: 20



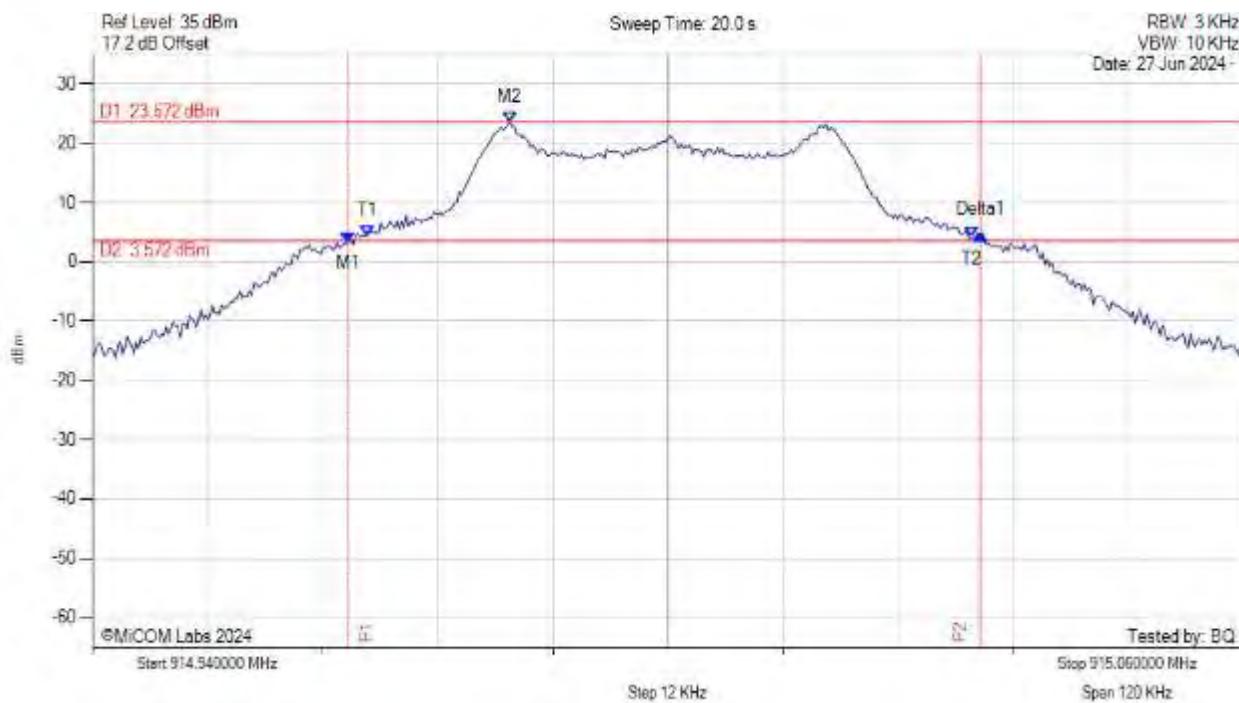
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 902.965 MHz : 2.574 dBm M2 : 903.016 MHz : 24.044 dBm Delta1 : 68 KHz : 1.226 dB T1 : 902.968 MHz : 4.107 dBm T2 : 903.032 MHz : 4.339 dBm OBW : 64 KHz	Measured 20 dB Bandwidth: 0.068 MHz Limit: 0.5 kHz Margin: 0.43 MHz

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20 dB 99% BANDWIDTH



Variant: 37.5kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



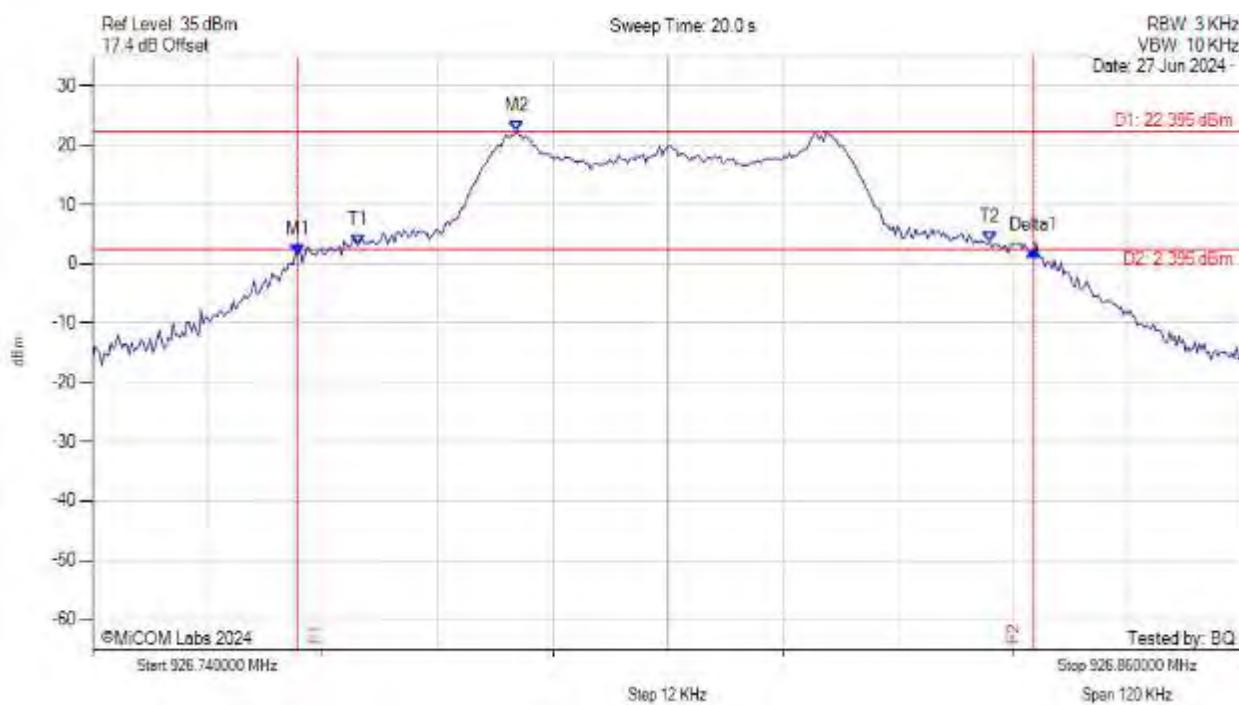
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 914.967 MHz : 3.280 dBm M2 : 914.984 MHz : 23.572 dBm Delta1 : 66 KHz : 1.365 dB T1 : 914.969 MHz : 4.402 dBm T2 : 915.032 MHz : 4.030 dBm OBW : 63 KHz	Measured 20 dB Bandwidth: 0.066 MHz Limit: 0.5 kHz Margin: 0.43 MHz

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20 dB 99% BANDWIDTH



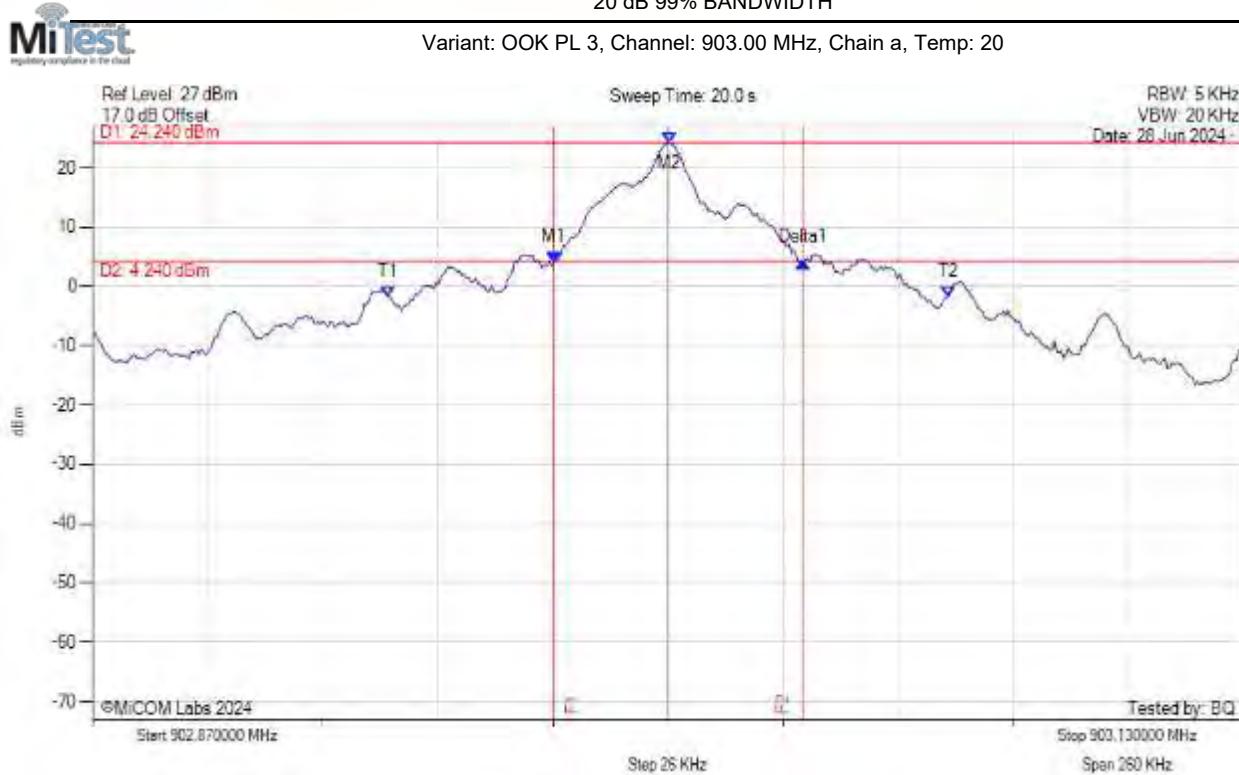
Variant: 37.5kbps, PL 3 (FHSS), Channel: 926.80 MHz, Chain a, Temp: 20



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = MAX HOLD	M1 : 926.761 MHz : 1.476 dBm M2 : 926.784 MHz : 22.395 dBm Delta1 : 77 KHz : 0.689 dB T1 : 926.768 MHz : 3.105 dBm T2 : 926.834 MHz : 3.693 dBm OBW : 66 KHz	Measured 20 dB Bandwidth: 0.077 MHz Limit: 0.5 kHz Margin: 0.42 MHz

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20 dB 99% BANDWIDTH



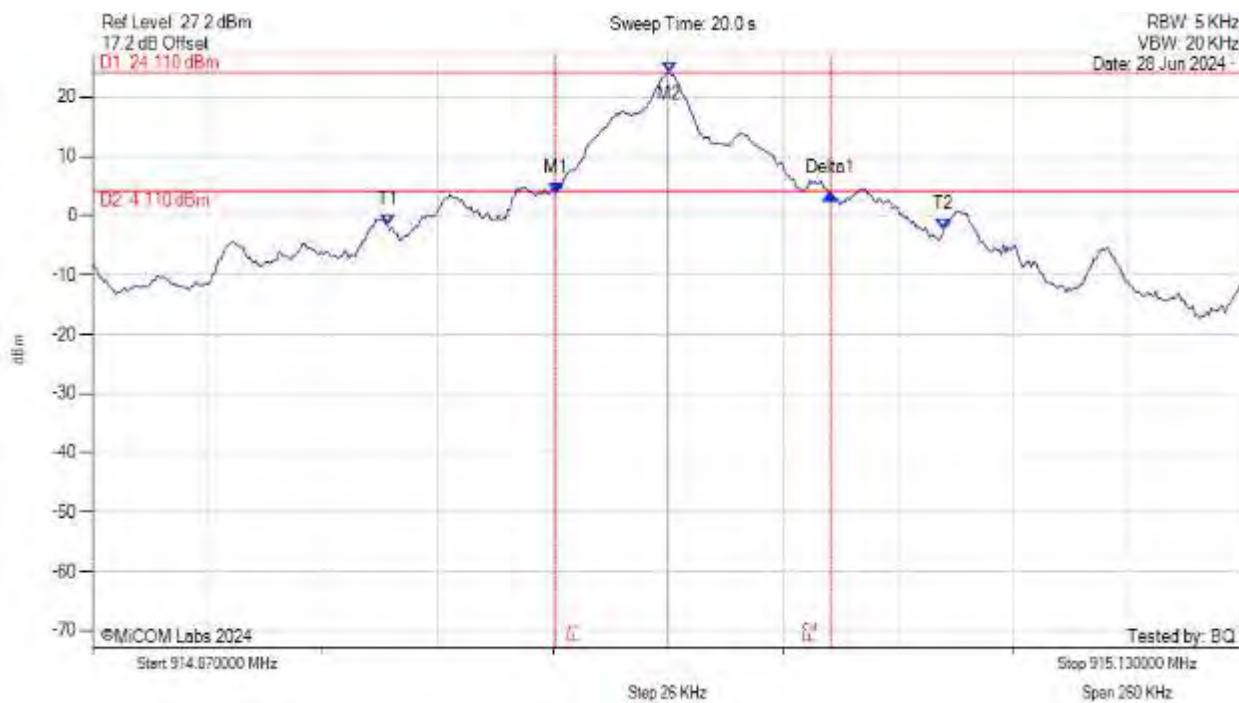
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 902.974 MHz : 4.037 dBm M2 : 903.000 MHz : 24.236 dBm Delta1 : 56 kHz : 0.049 dB T1 : 902.937 MHz : -1.686 dBm T2 : 903.063 MHz : -1.786 dBm OBW : 127 kHz	Measured 20 dB Bandwidth: 0.056 MHz Limit: 0.5 kHz Margin: 0.44 MHz

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20 dB 99% BANDWIDTH



Variant: OOK PL 3, Channel: 915.00 MHz, Chain a, Temp: 20



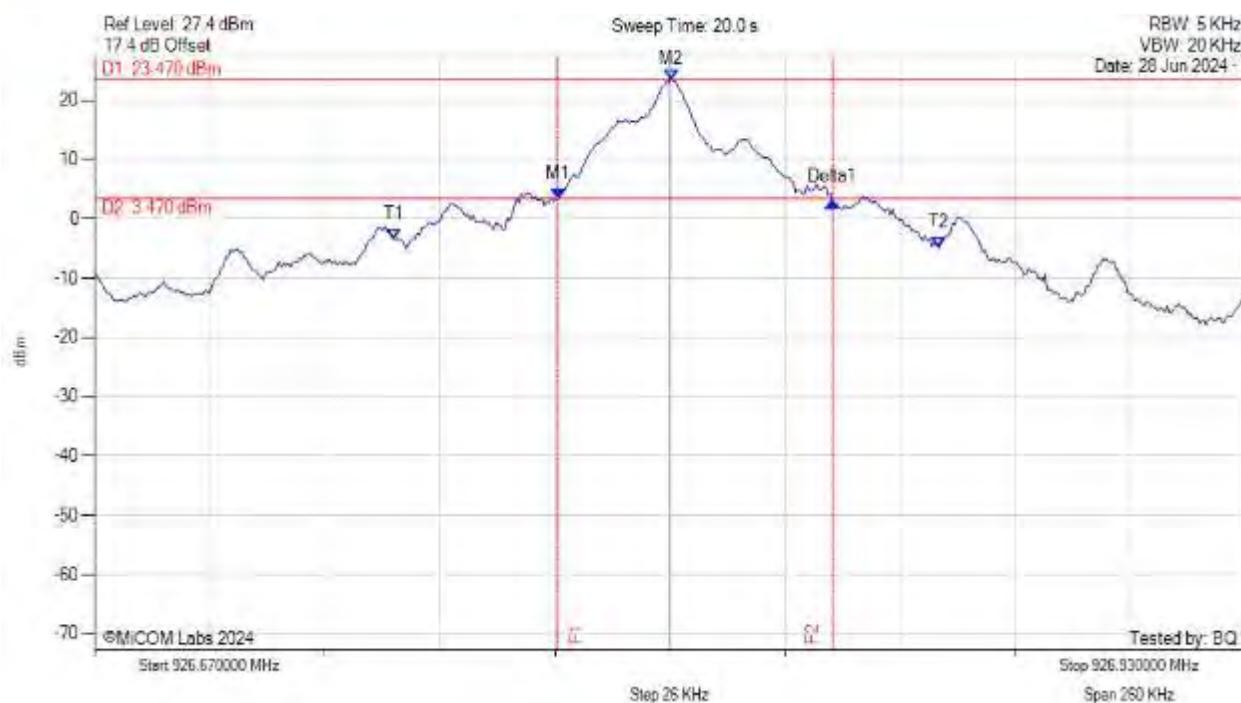
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 914.975 MHz : 3.788 dBm M2 : 915.000 MHz : 24.107 dBm Delta1 : 62 KHz : -0.108 dB T1 : 914.937 MHz : -1.669 dBm T2 : 915.062 MHz : -2.377 dBm OBW : 126 KHz	Measured 20 dB Bandwidth: 0.062 MHz Limit: 0.5 kHz Margin: 0.44 MHz

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20 dB 99% BANDWIDTH



Variant: OOK PL 3, Channel: 926.80 MHz, Chain a, Temp: 20



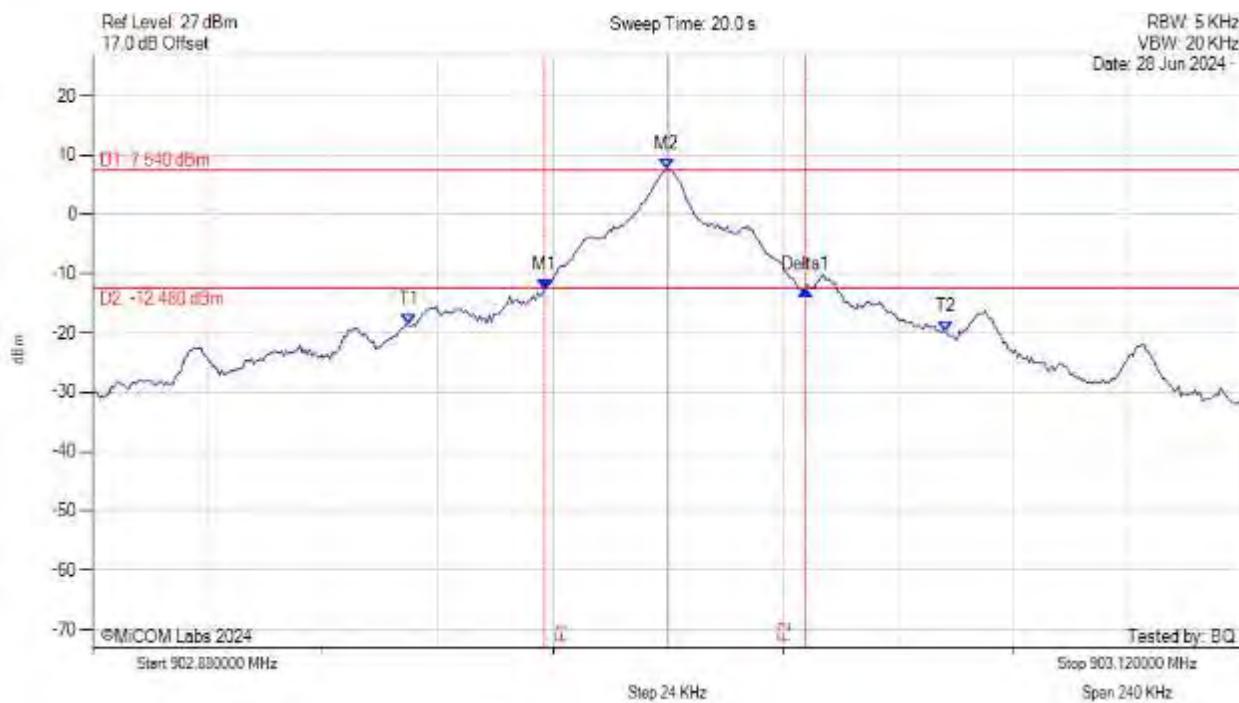
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 926.775 MHz : 3.347 dBm M2 : 926.800 MHz : 23.469 dBm Delta1 : 62 KHz : -0.478 dB T1 : 926.738 MHz : -3.572 dBm T2 : 926.861 MHz : -4.853 dBm OBW : 123 KHz	Measured 20 dB Bandwidth: 0.062 MHz Limit: 0.5 kHz Margin: 0.44 MHz

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20 dB 99% BANDWIDTH



Variant: OOK PL1, Channel: 903.00 MHz, Chain a, Temp: 20



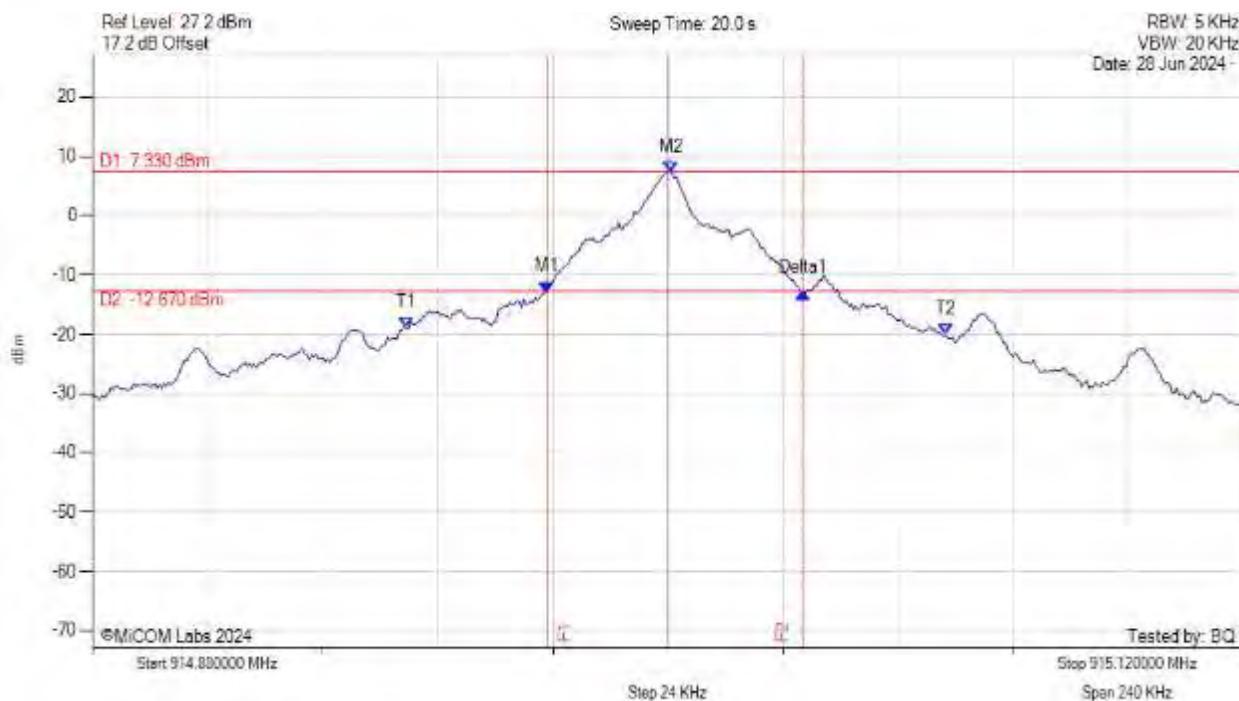
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 902.974 MHz : -12.741 dBm M2 : 903.000 MHz : 7.537 dBm Delta1 : 54 KHz : 0.018 dB T1 : 902.946 MHz : -18.700 dBm T2 : 903.058 MHz : -19.772 dBm OBW : 112 KHz	Measured 20 dB Bandwidth: 0.054 MHz Limit: 0.5 kHz Margin: 0.45 MHz

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20 dB 99% BANDWIDTH



Variant: OOK PL1, Channel: 915.00 MHz, Chain a, Temp: 20



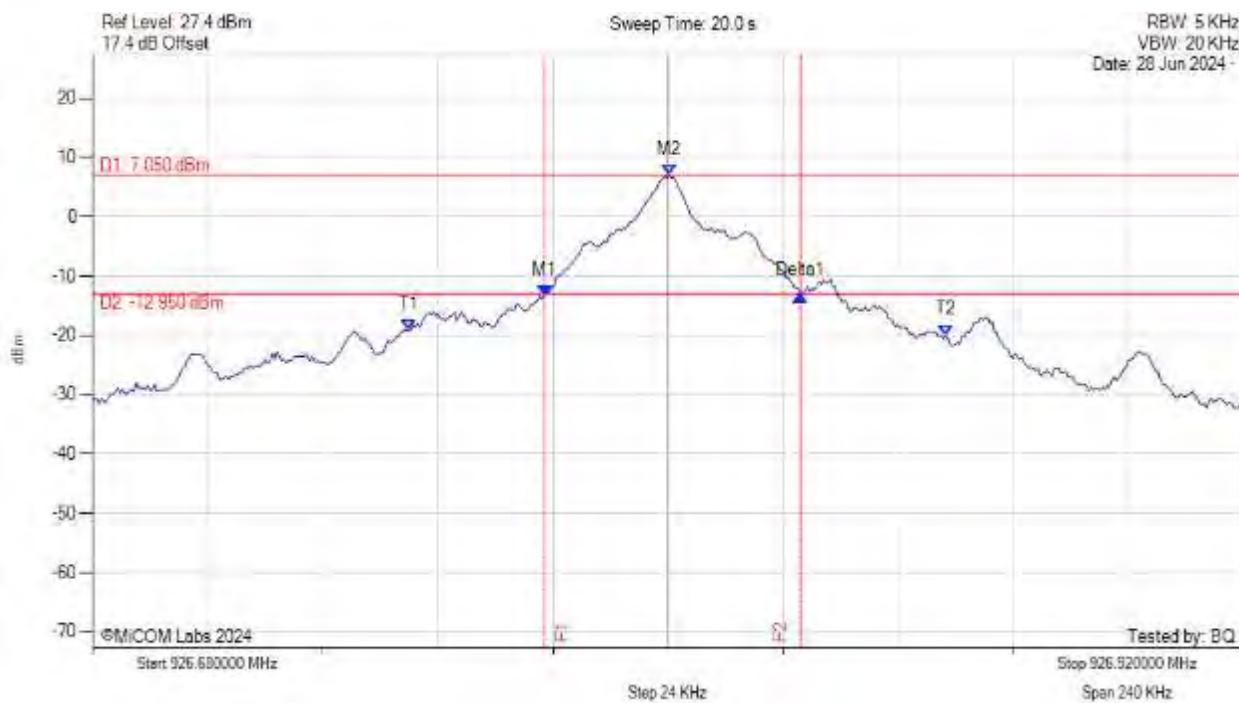
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 914.975 MHz : -12.918 dBm M2 : 915.001 MHz : 7.332 dBm Delta1 : 53 KHz : -0.130 dB T1 : 914.945 MHz : -18.905 dBm T2 : 915.058 MHz : -20.125 dBm OBW : 113 KHz	Measured 20 dB Bandwidth: 0.053 MHz Limit: 0.5 kHz Margin: 0.45 MHz

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20 dB 99% BANDWIDTH



Variant: OOK PL1, Channel: 926.80 MHz, Chain a, Temp: 20

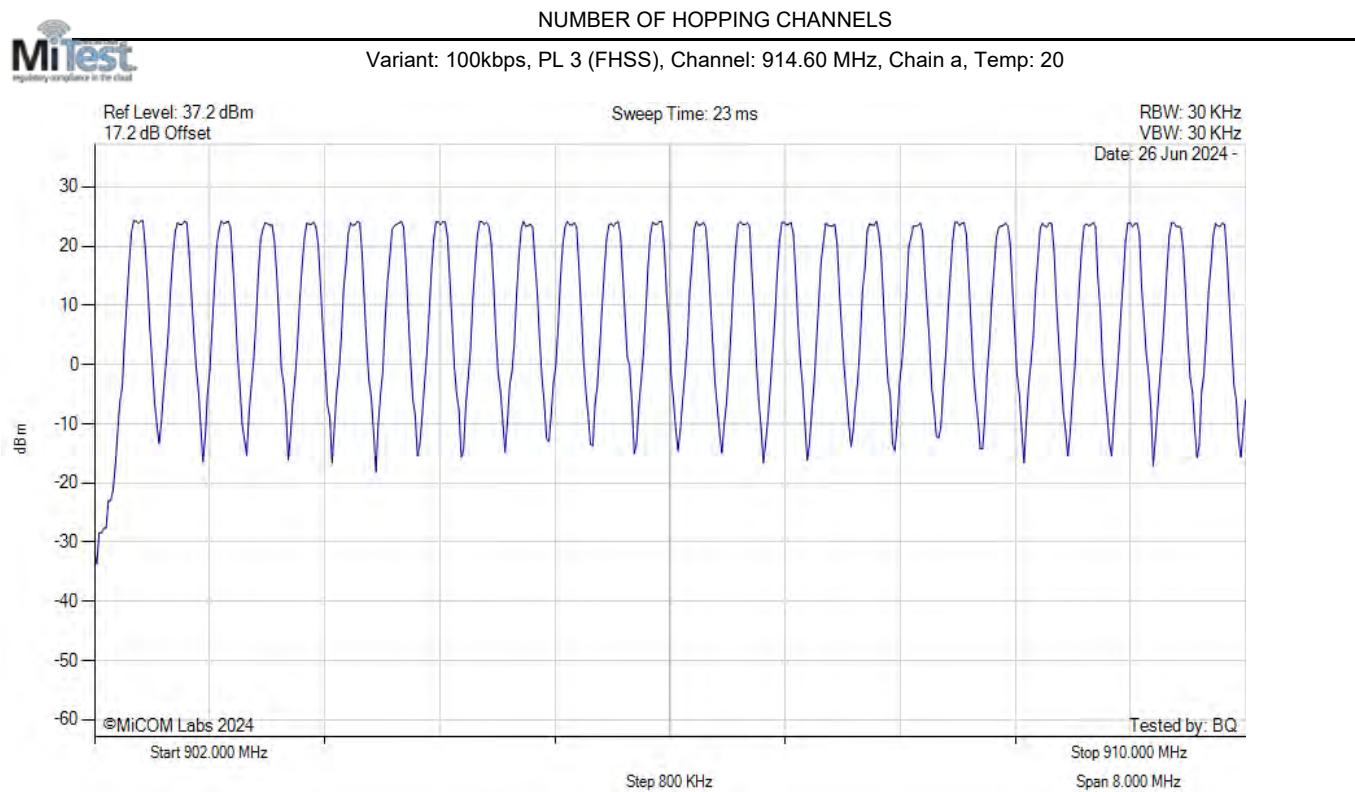


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 926.774 MHz : -13.208 dBm M2 : 926.800 MHz : 7.050 dBm Delta1 : 53 KHz : -0.069 dB T1 : 926.746 MHz : -19.132 dBm T2 : 926.858 MHz : -19.962 dBm OBW : 112 KHz	Measured 20 dB Bandwidth: 0.053 MHz Limit: 0.5 kHz Margin: 0.45 MHz

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## A.2. Frequency Hopping Tests

### A.2.1. Number of Hopping Channels



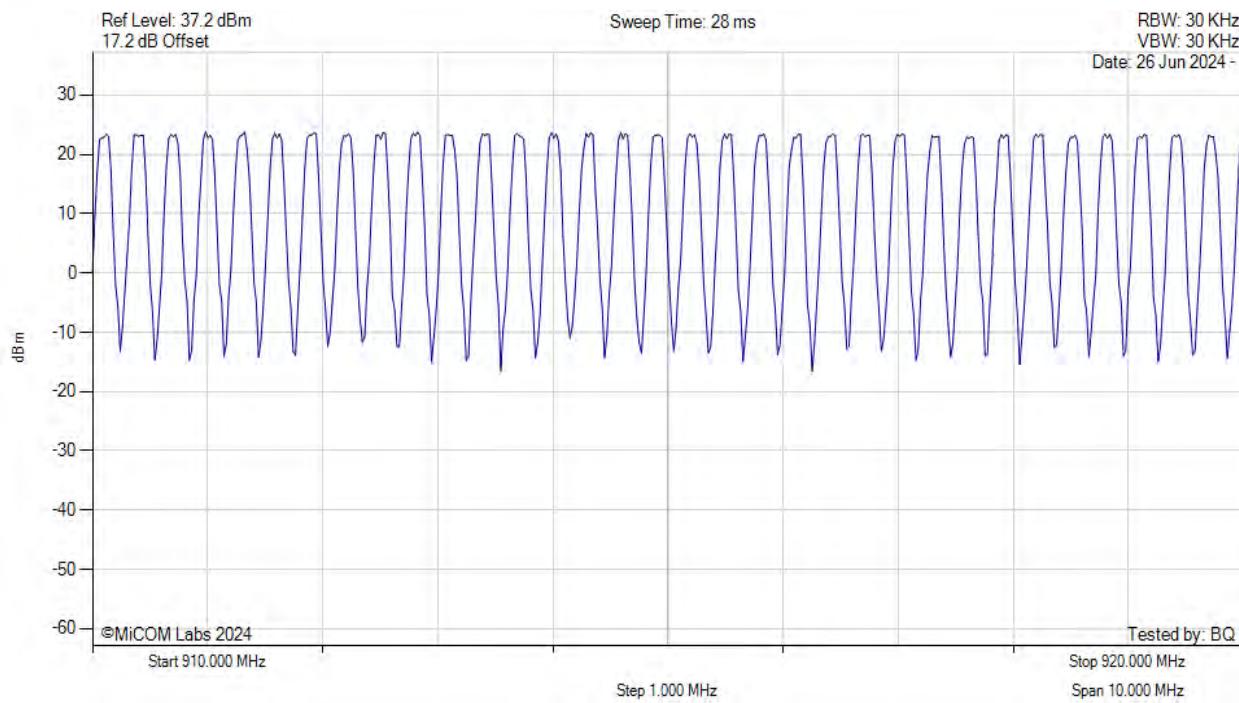
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.60 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 100kbps, PL 3 (FHSS), Channel: 914.60 MHz, Chain a, Temp: 20



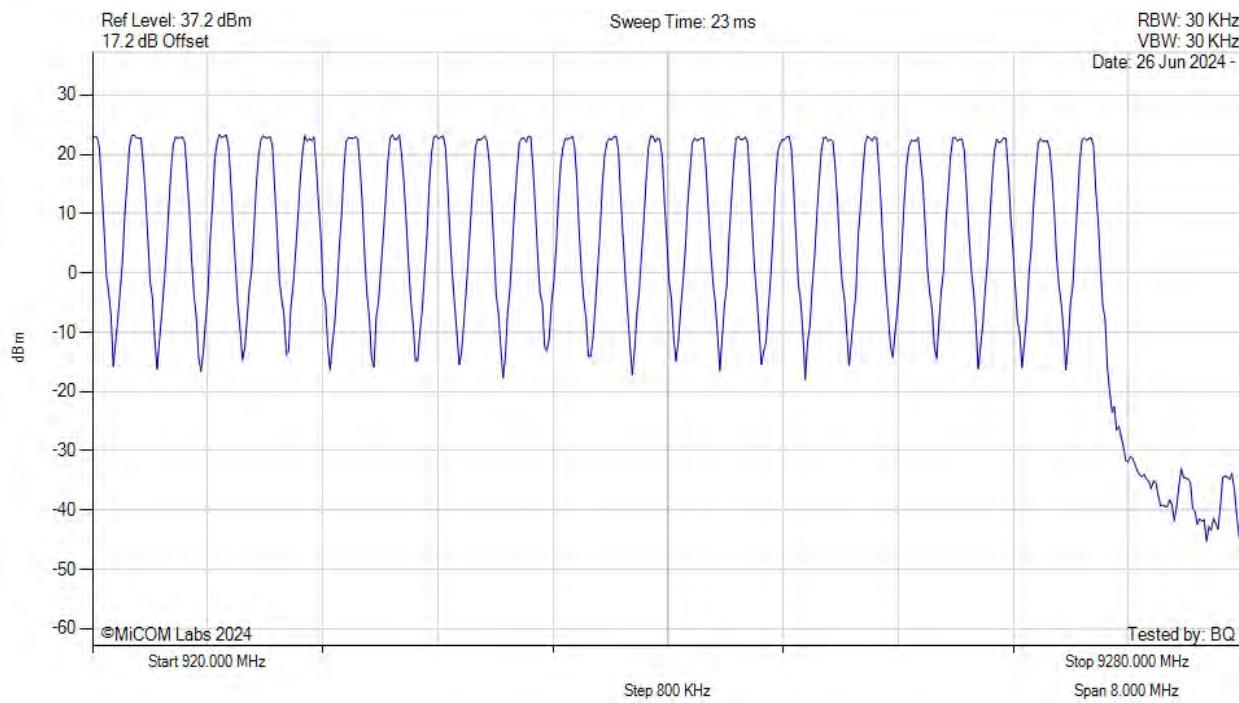
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.60 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 100kbps, PL 3 (FHSS), Channel: 914.60 MHz, Chain a, Temp: 20



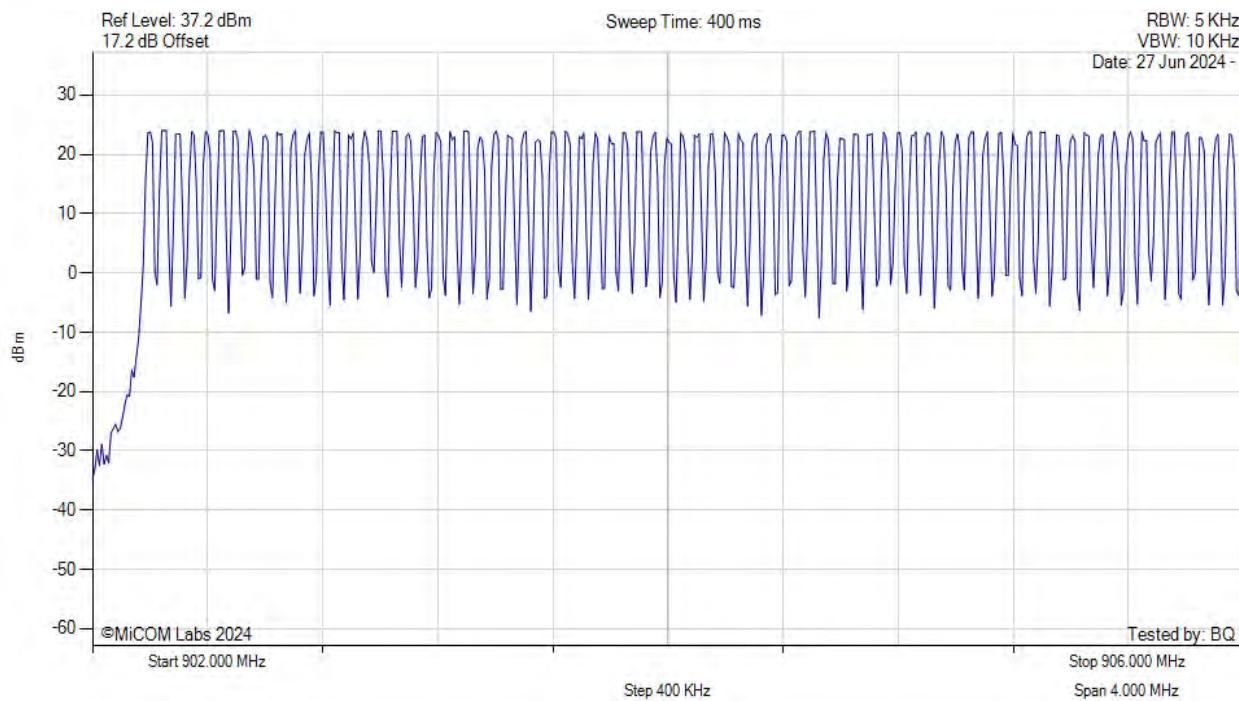
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.60 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 10kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



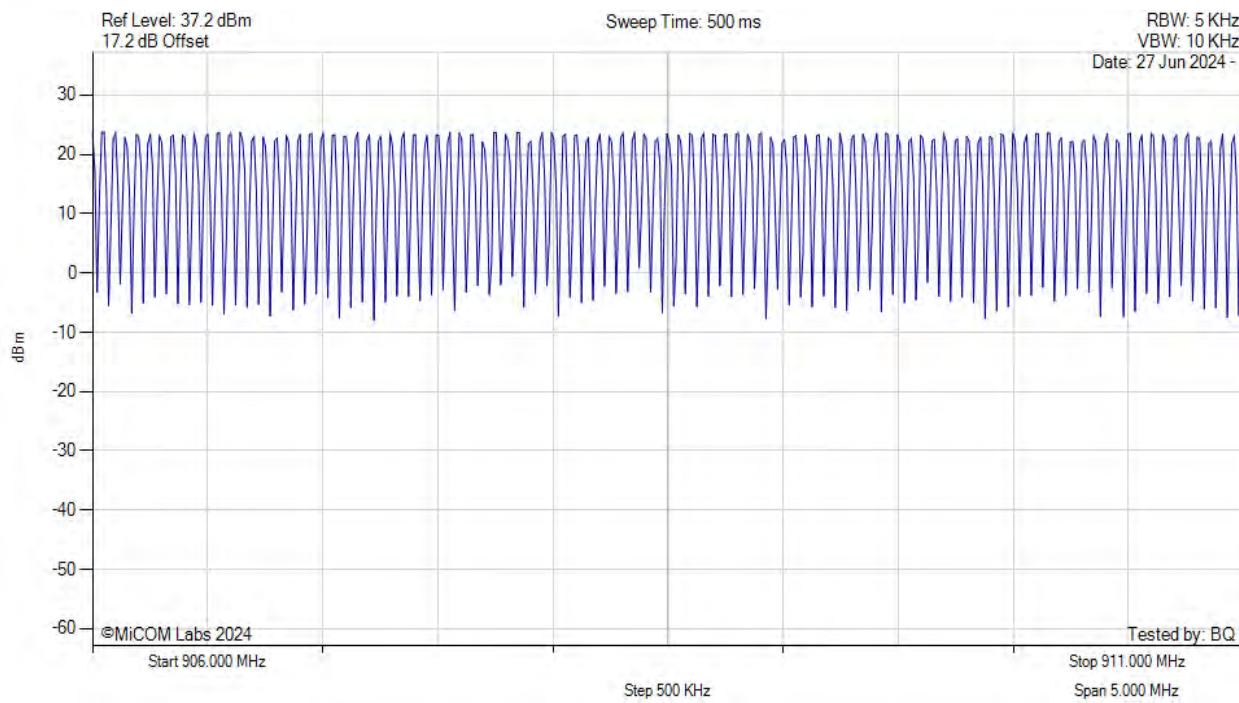
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 10kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



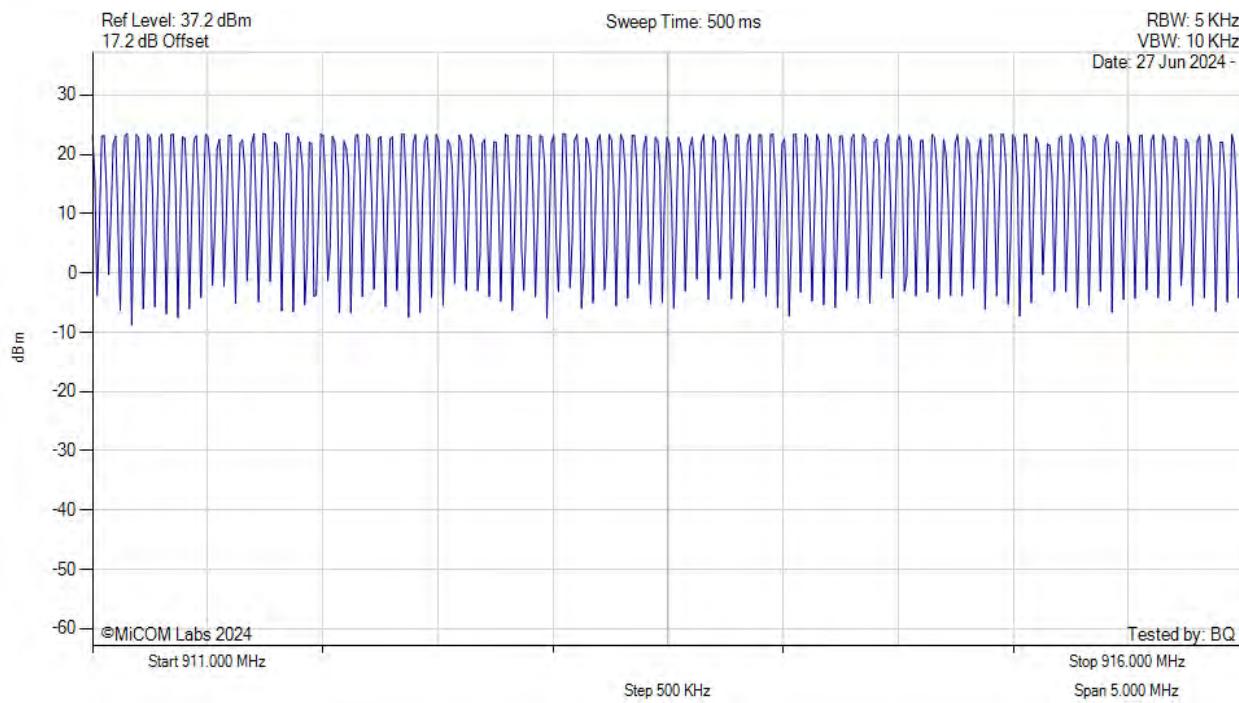
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 10kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



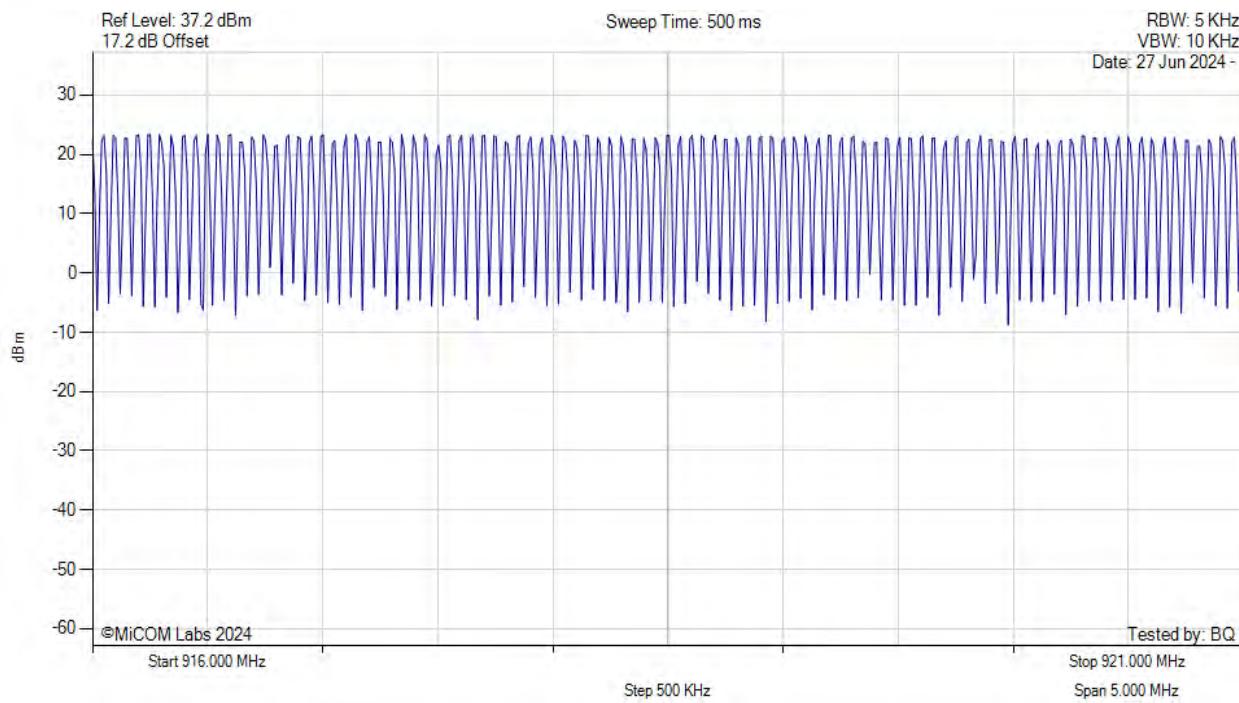
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 10kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



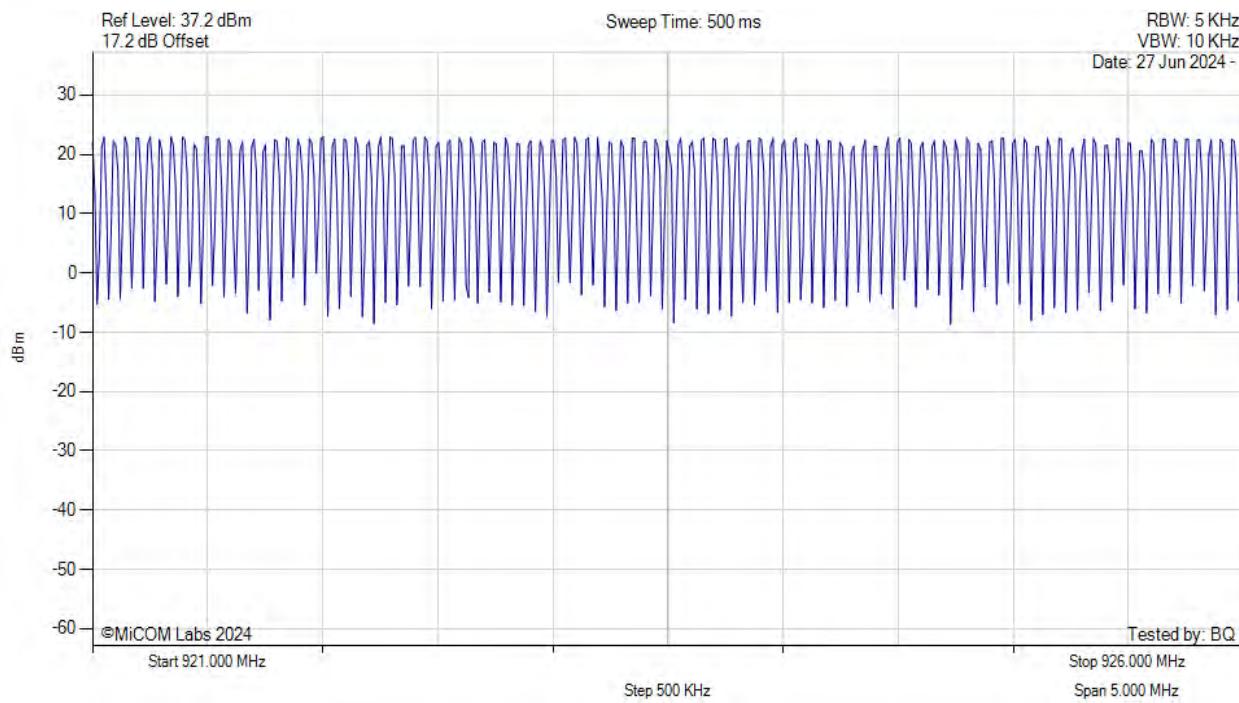
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 10kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



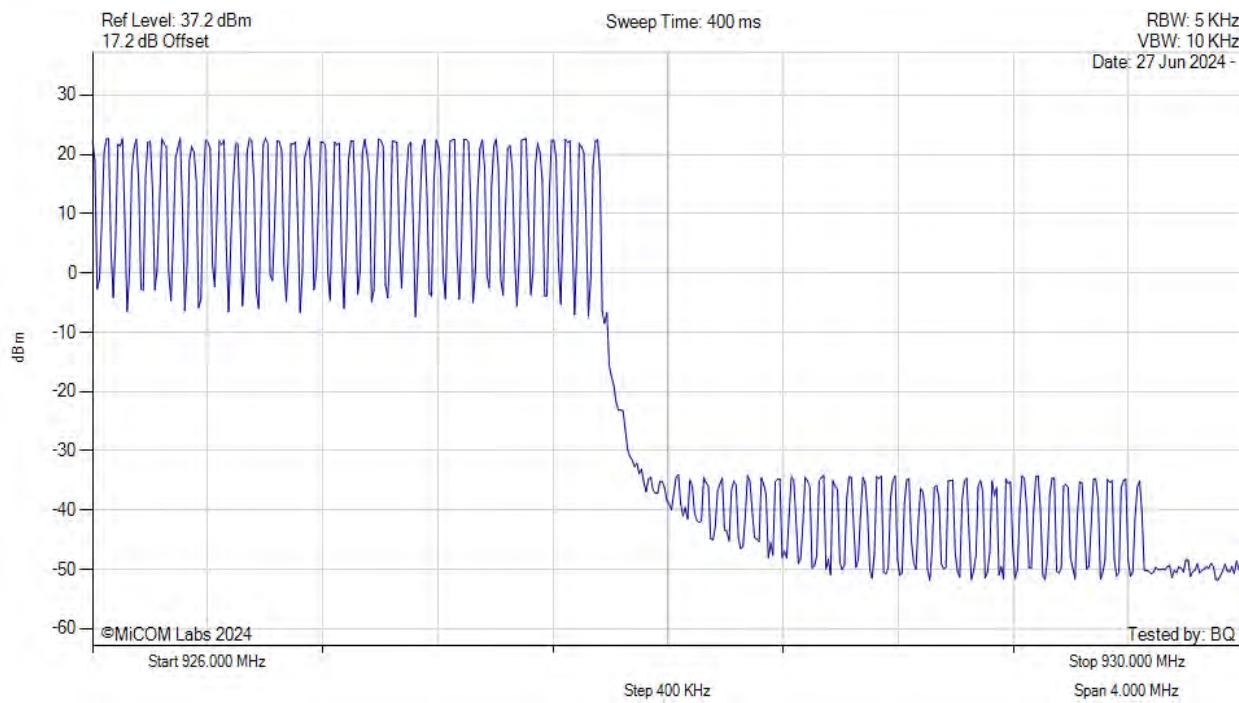
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 10kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



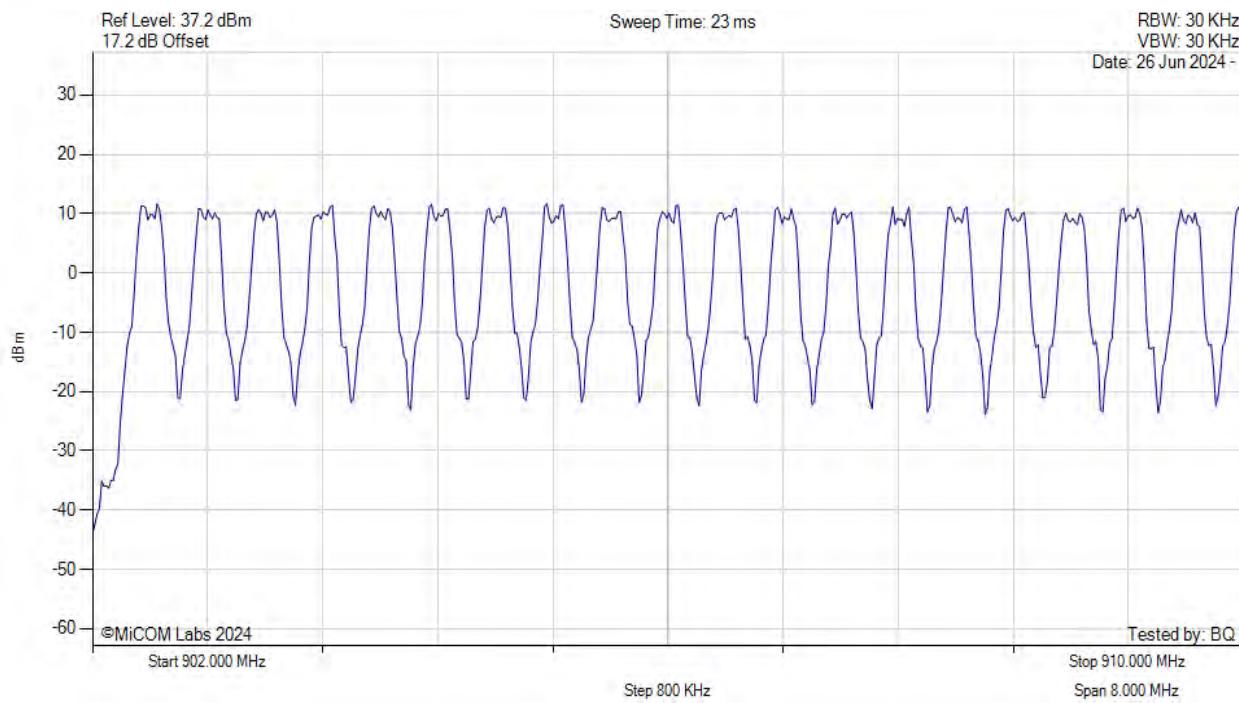
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



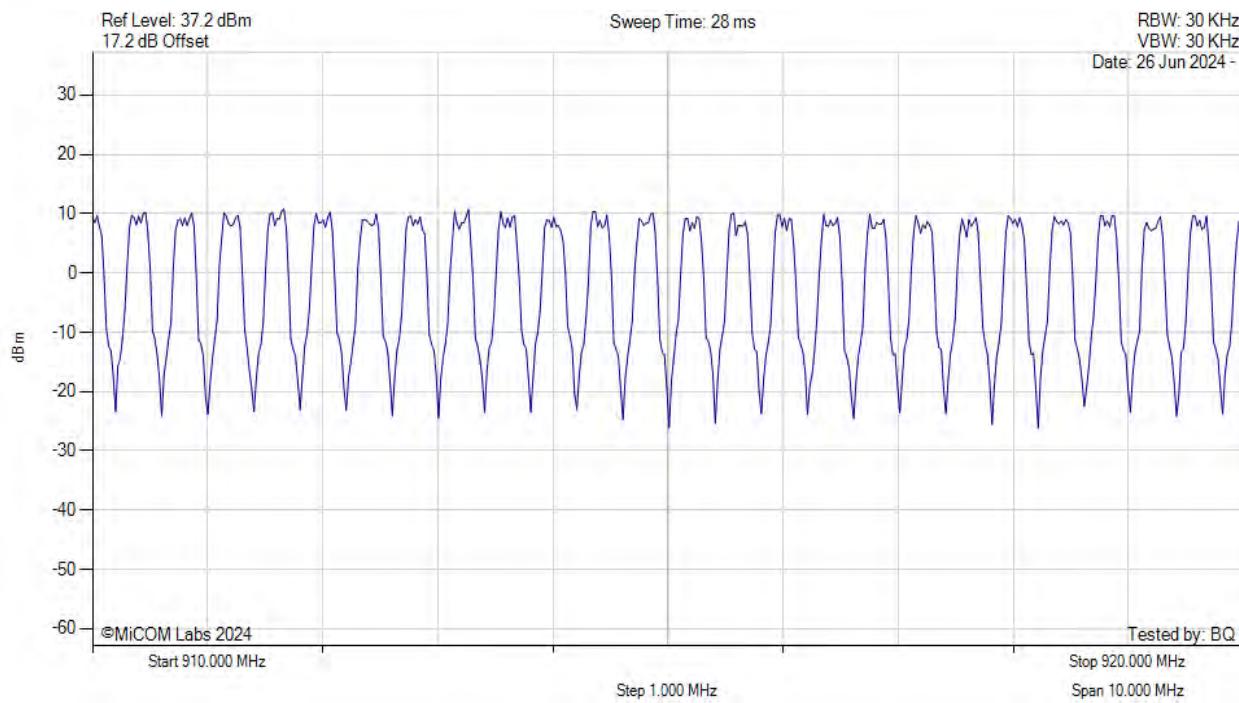
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



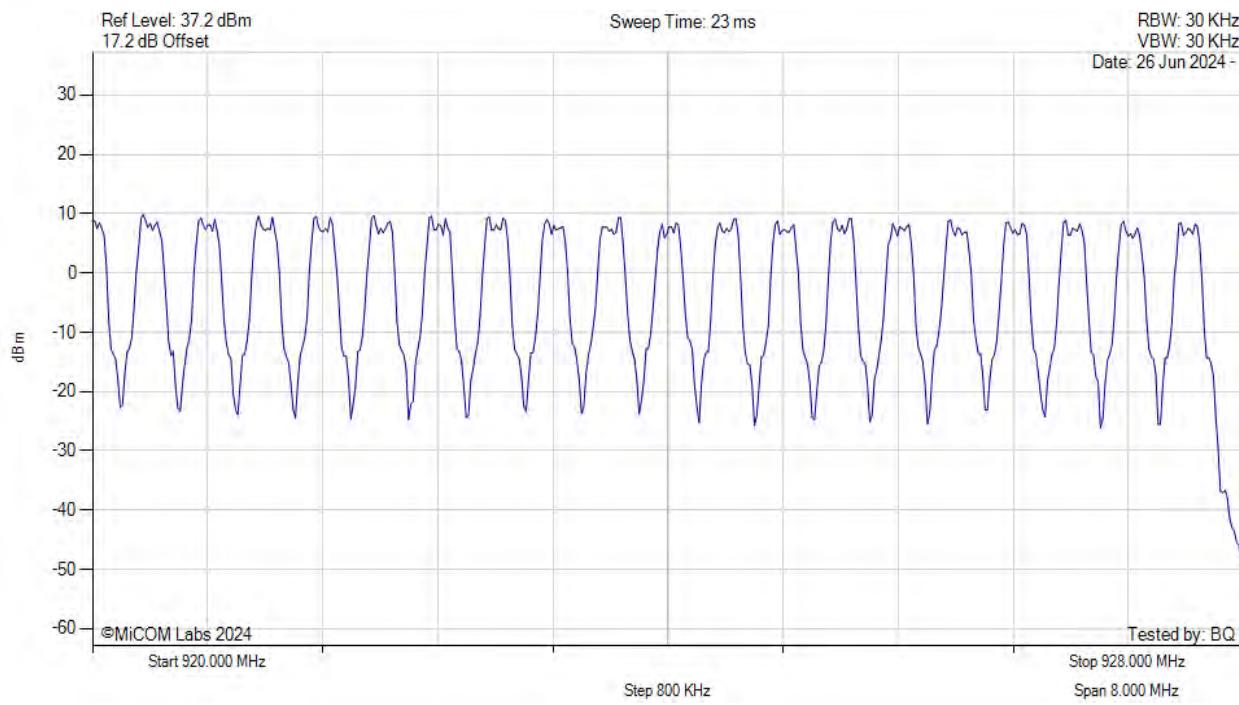
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



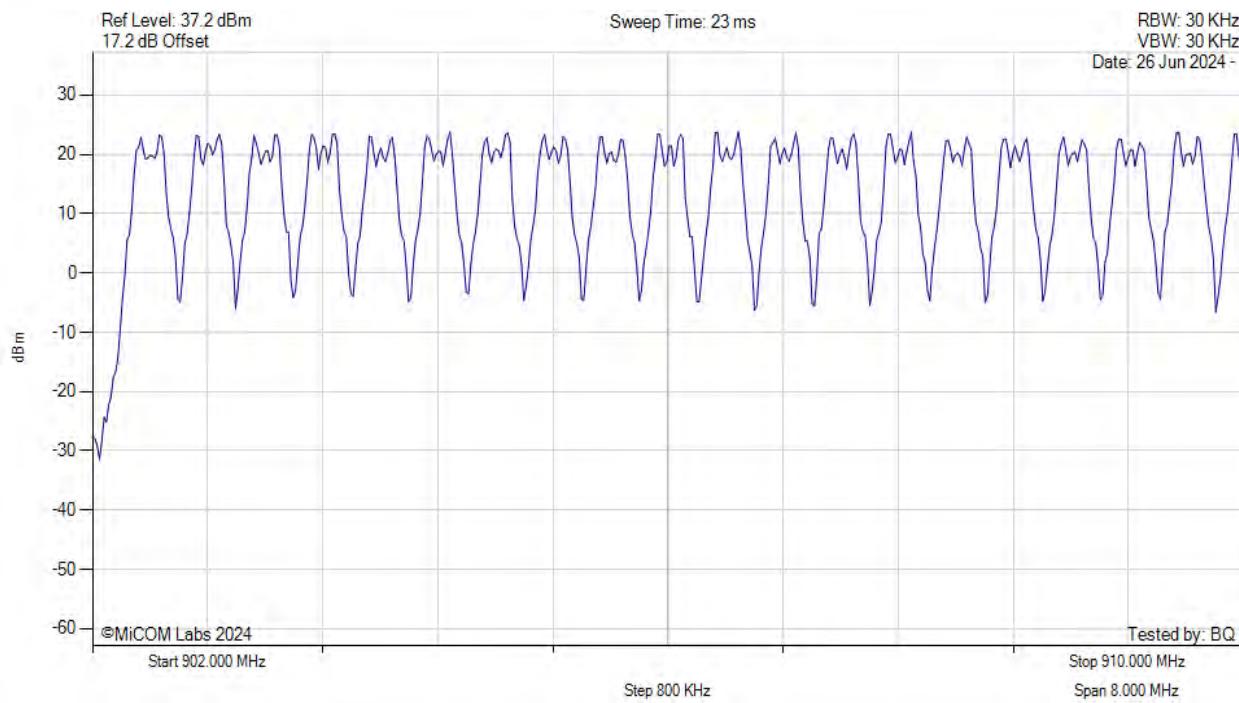
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 150kbps, PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



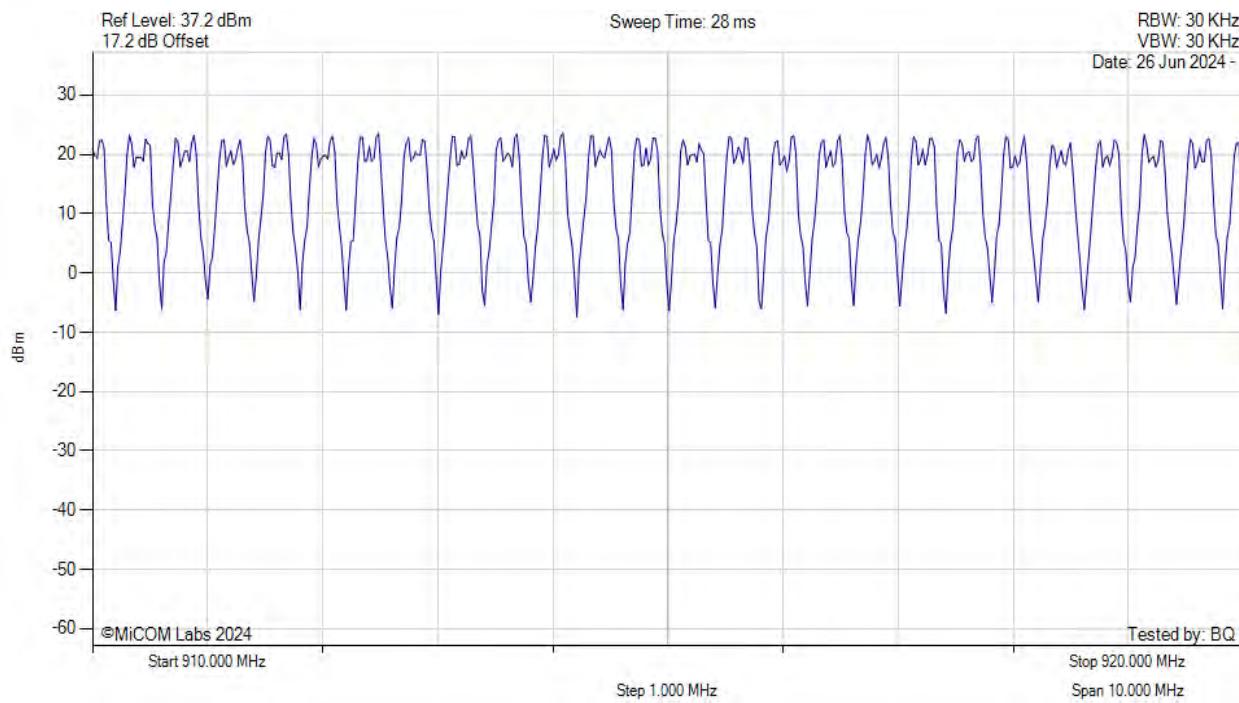
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 150kbps, PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



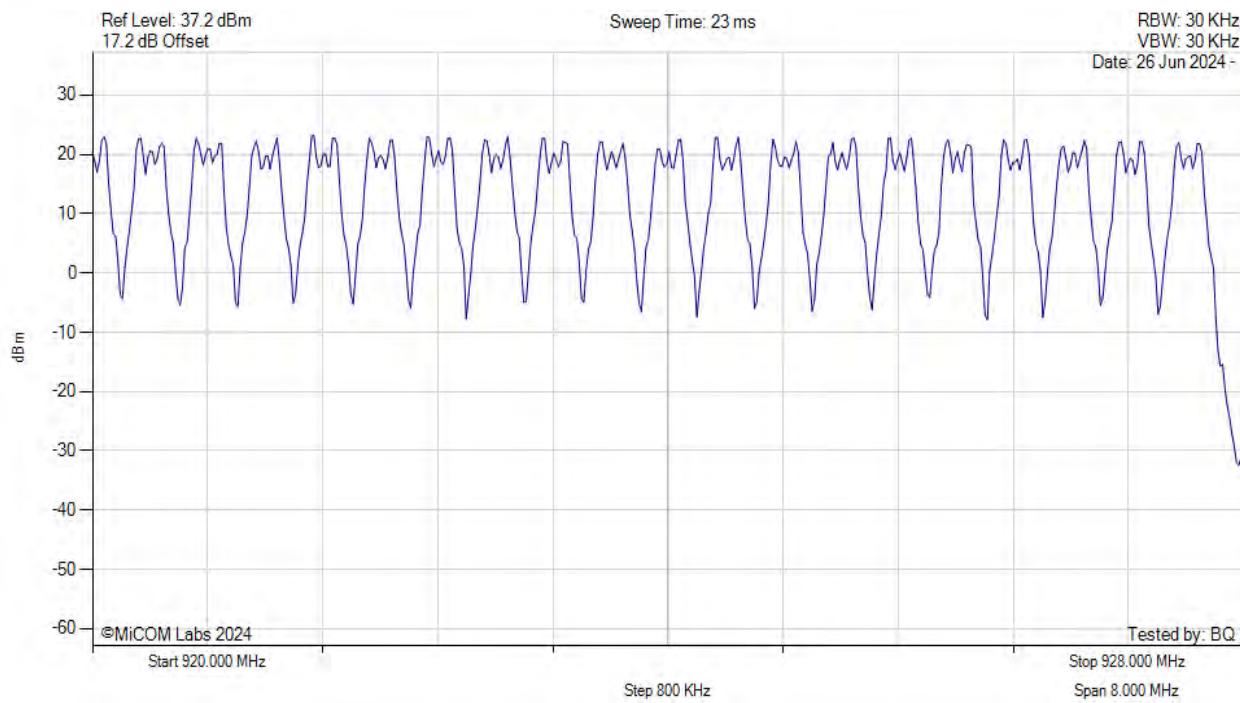
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 150kbps, PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



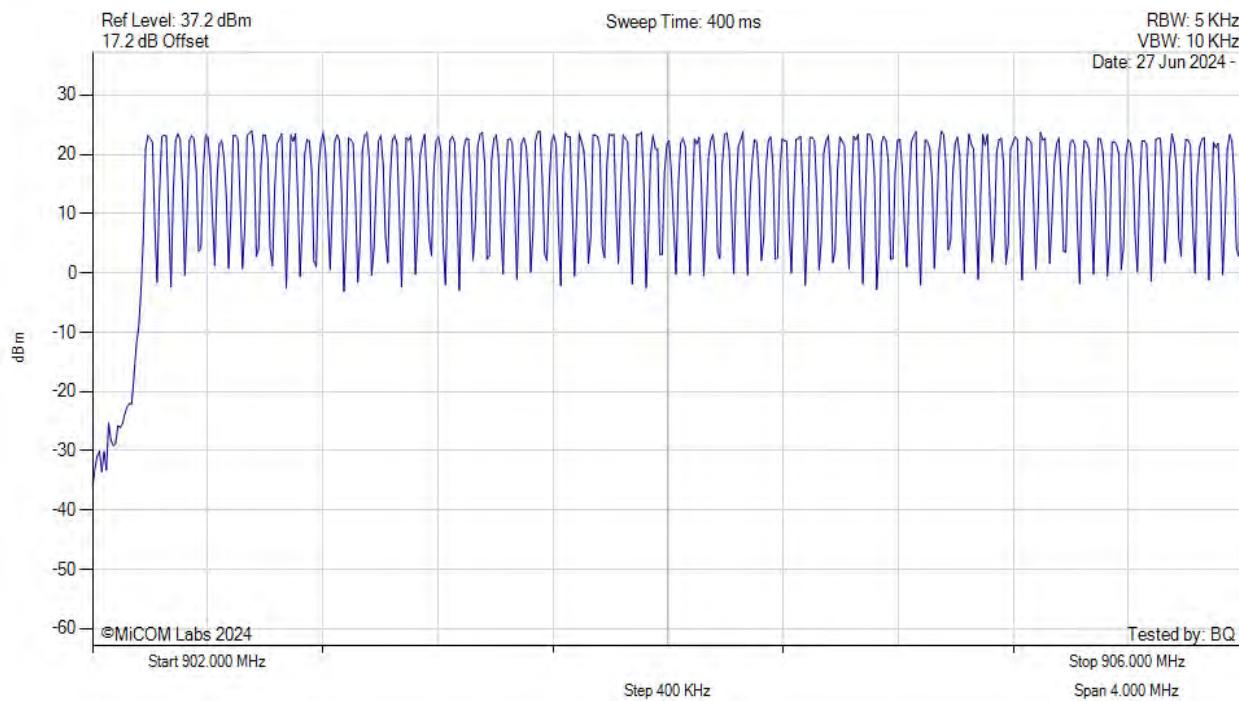
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 25kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



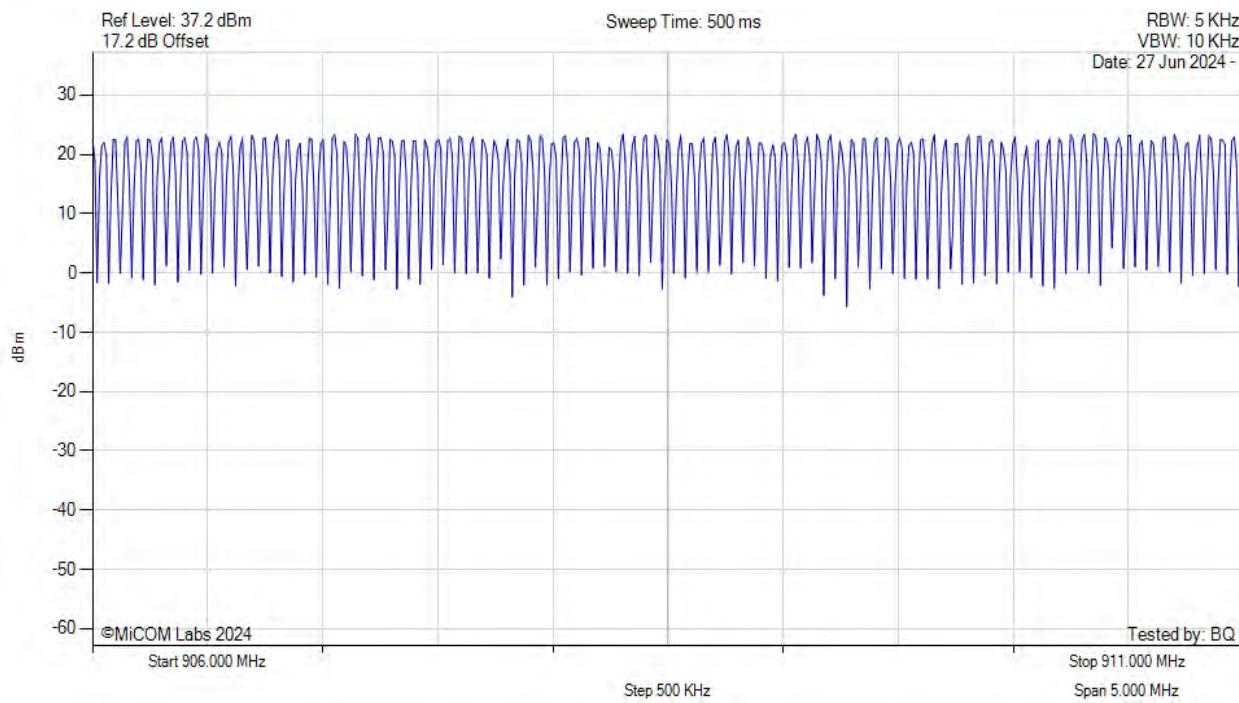
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 25kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



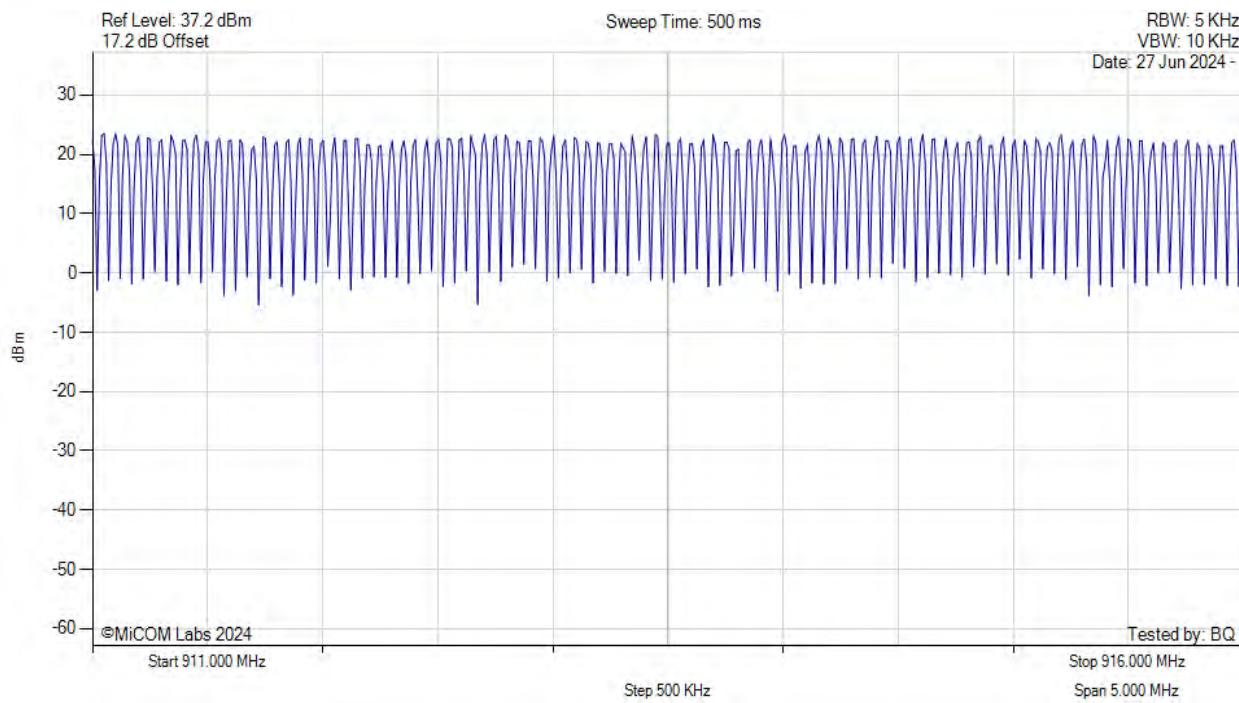
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 25kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



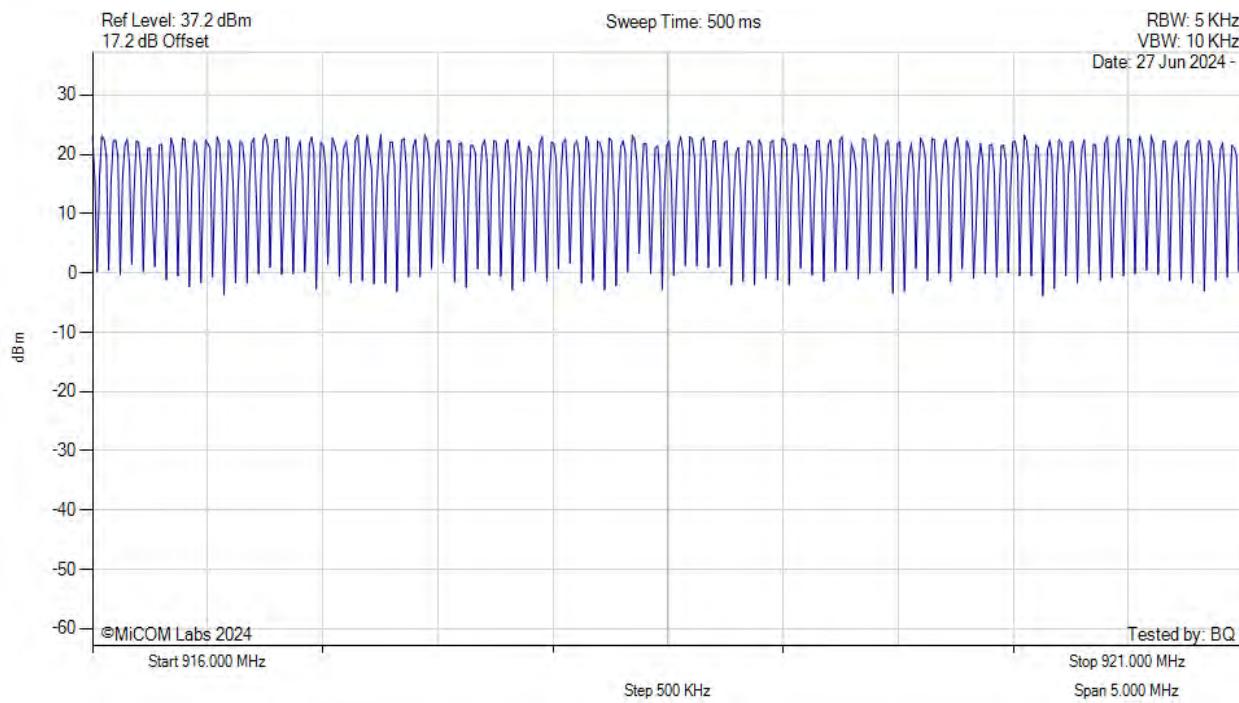
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 25kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



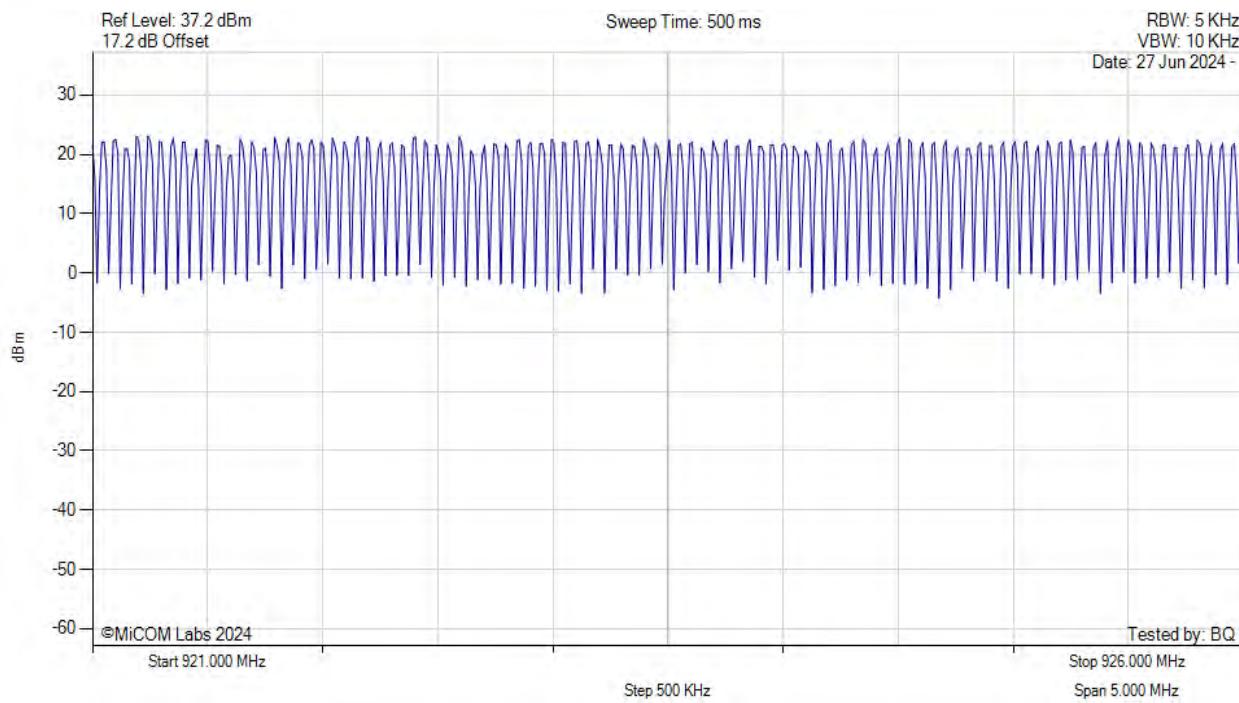
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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### NUMBER OF HOPPING CHANNELS



Variant: 25kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



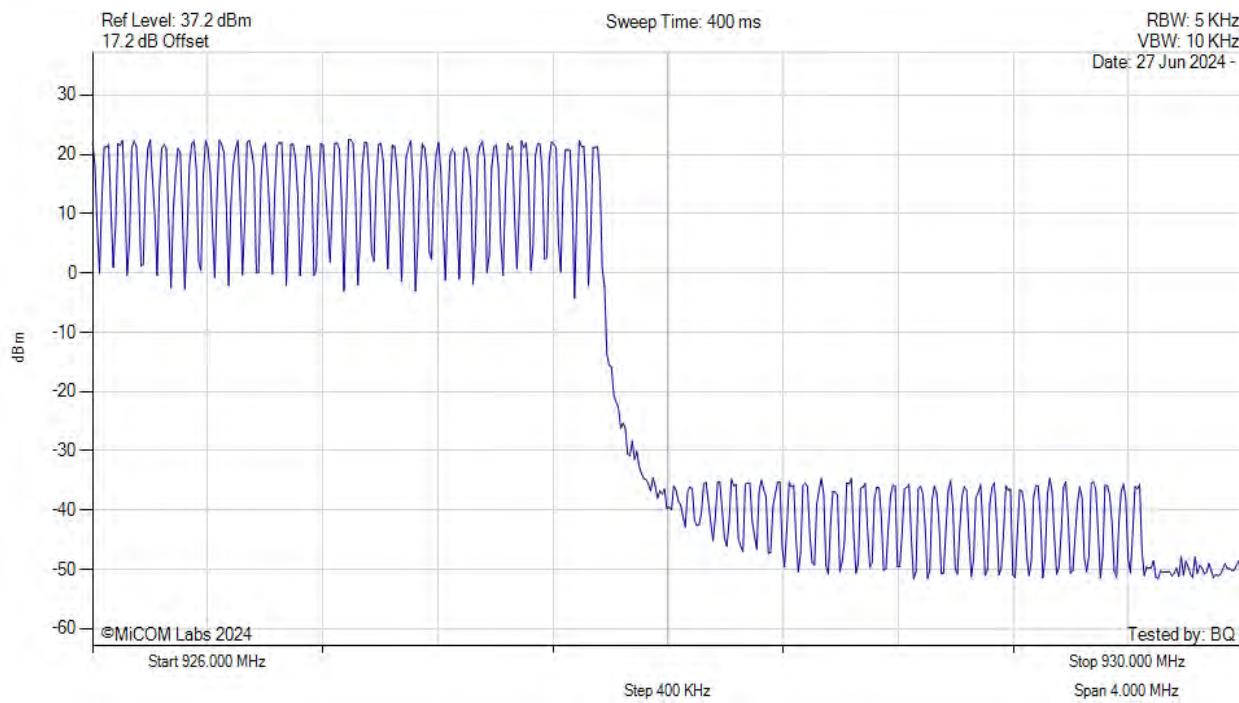
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 25kbps, PL 3 (FHSS), Channel: 914.00 MHz, Chain a, Temp: 20



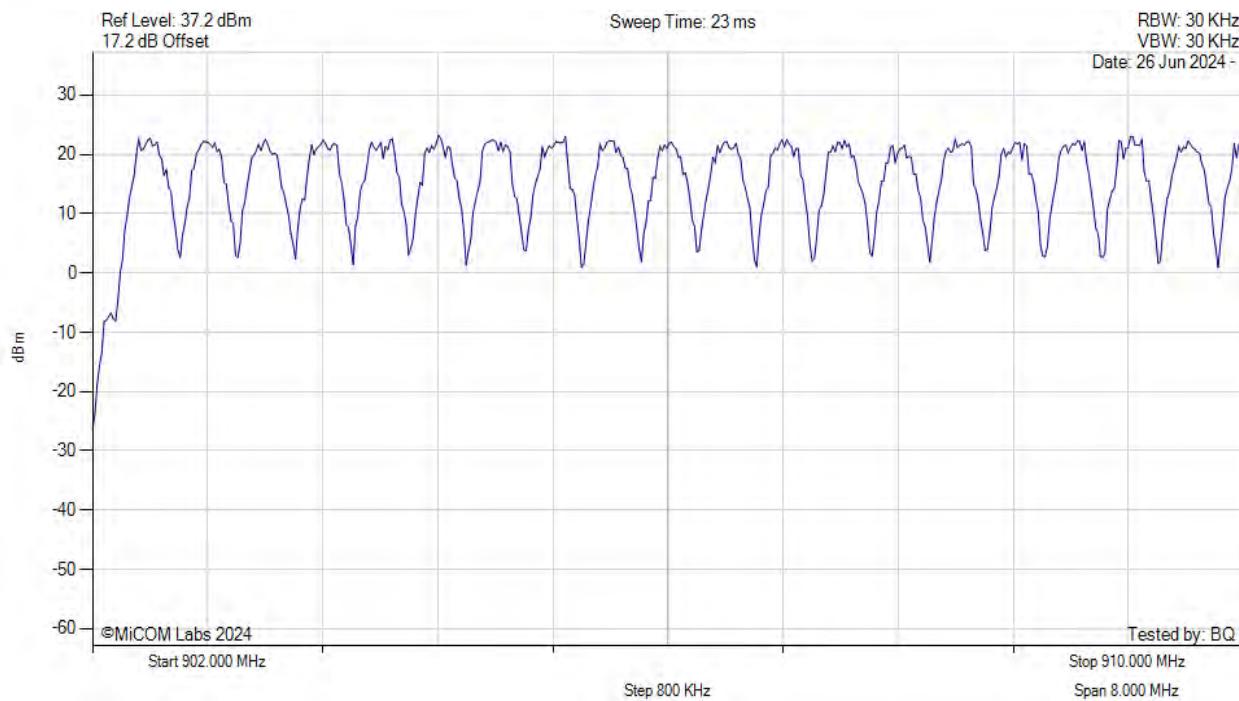
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 914.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 300kbps PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



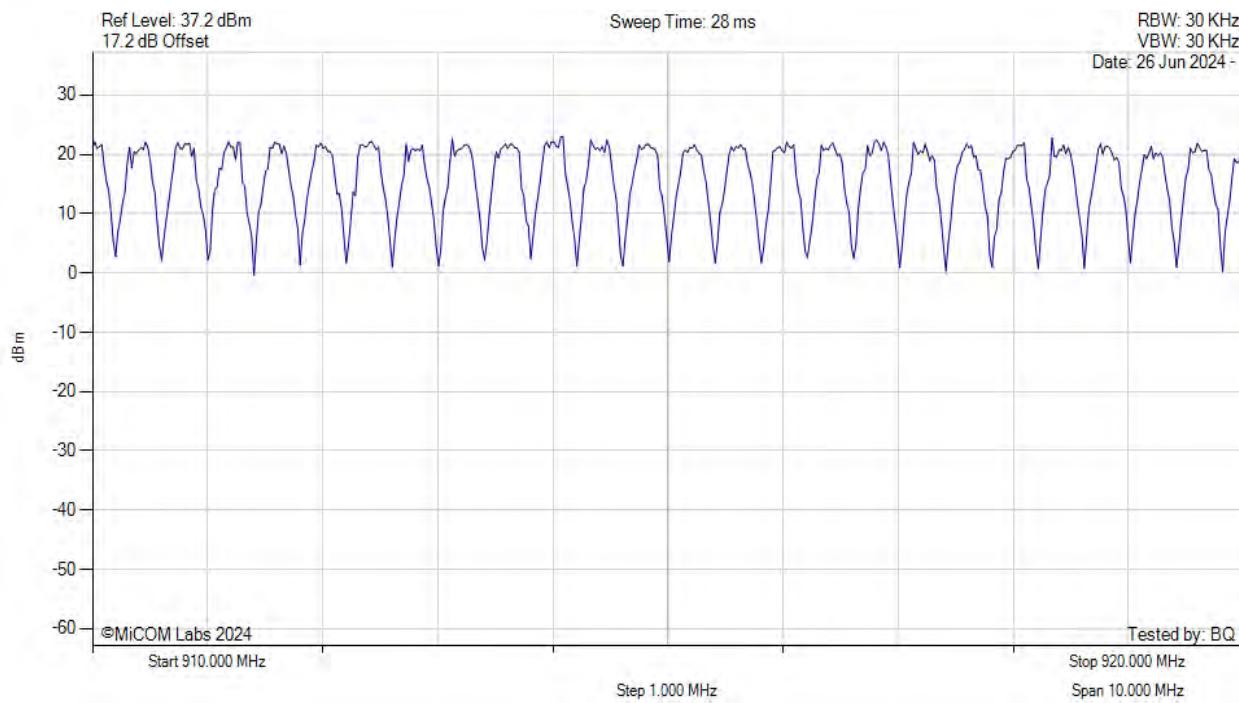
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 300kbps PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



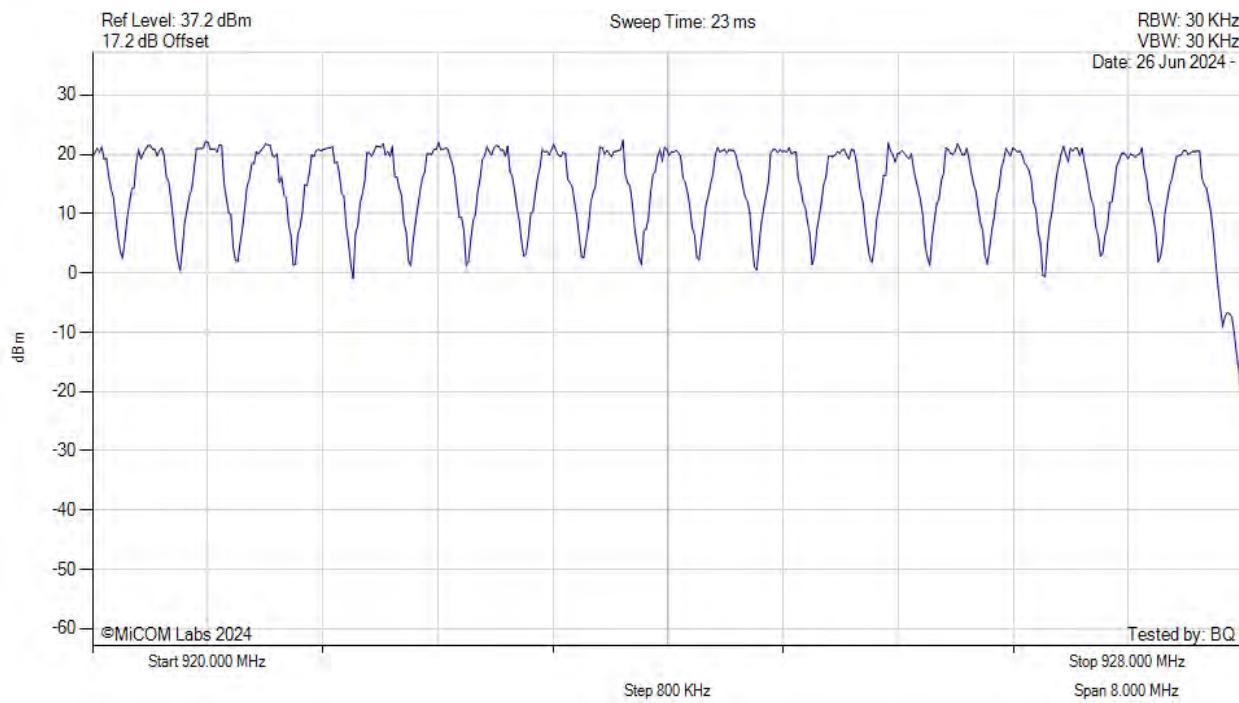
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 300kbps PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



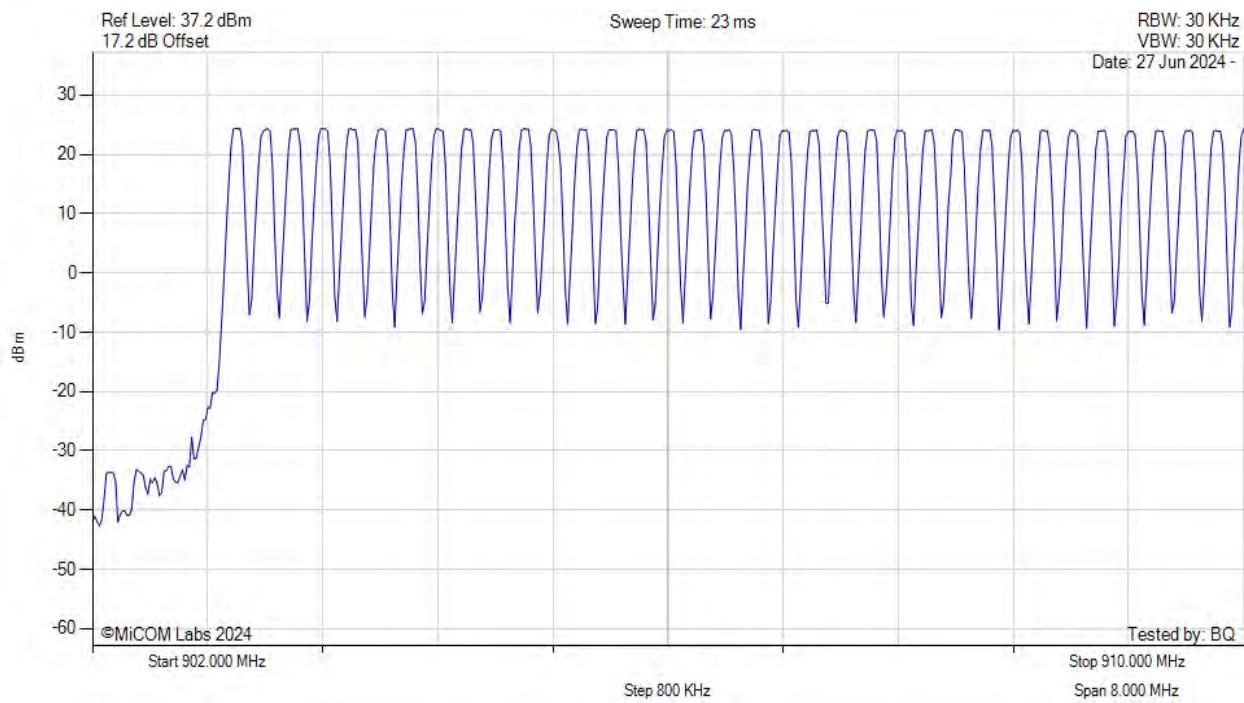
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.20 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 37.5kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



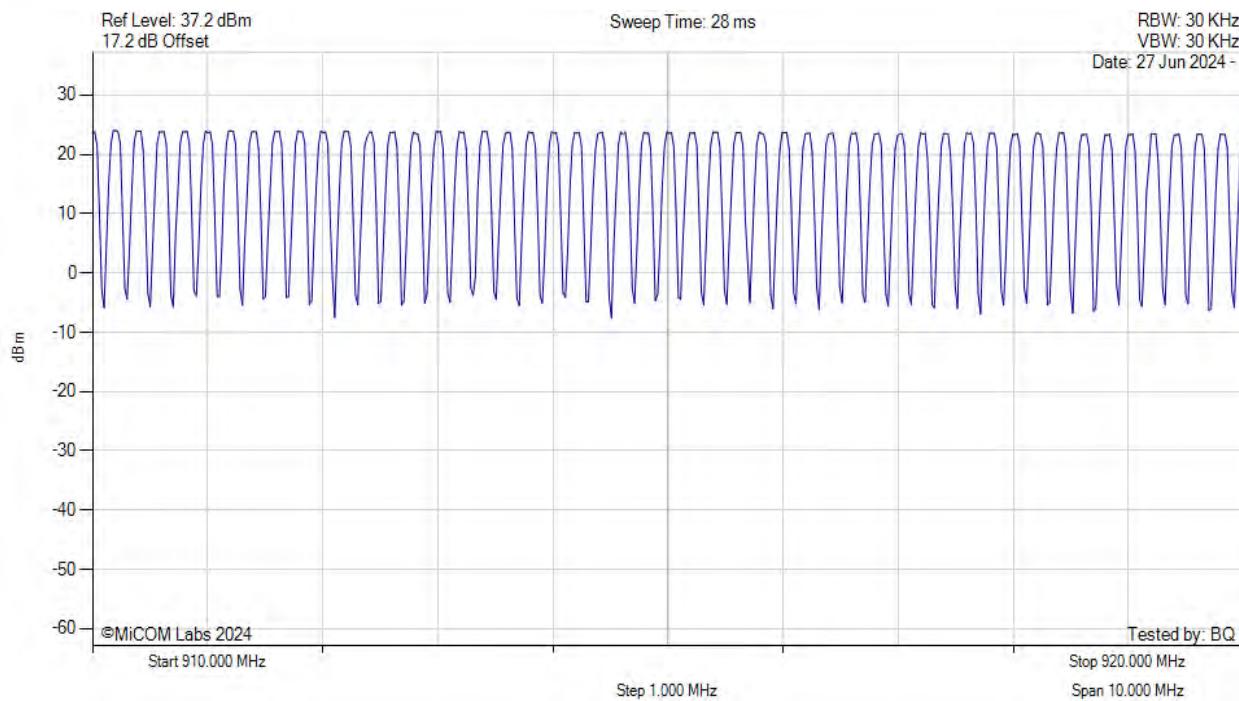
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 37.5kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



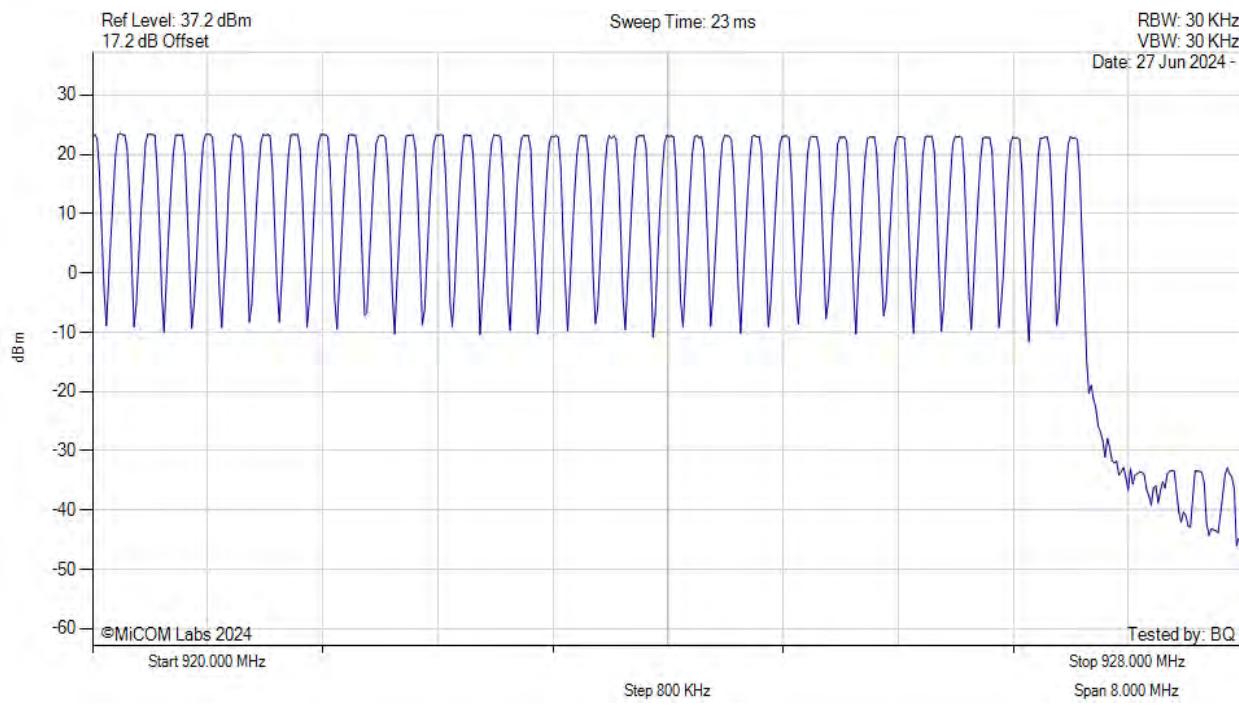
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: 37.5kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



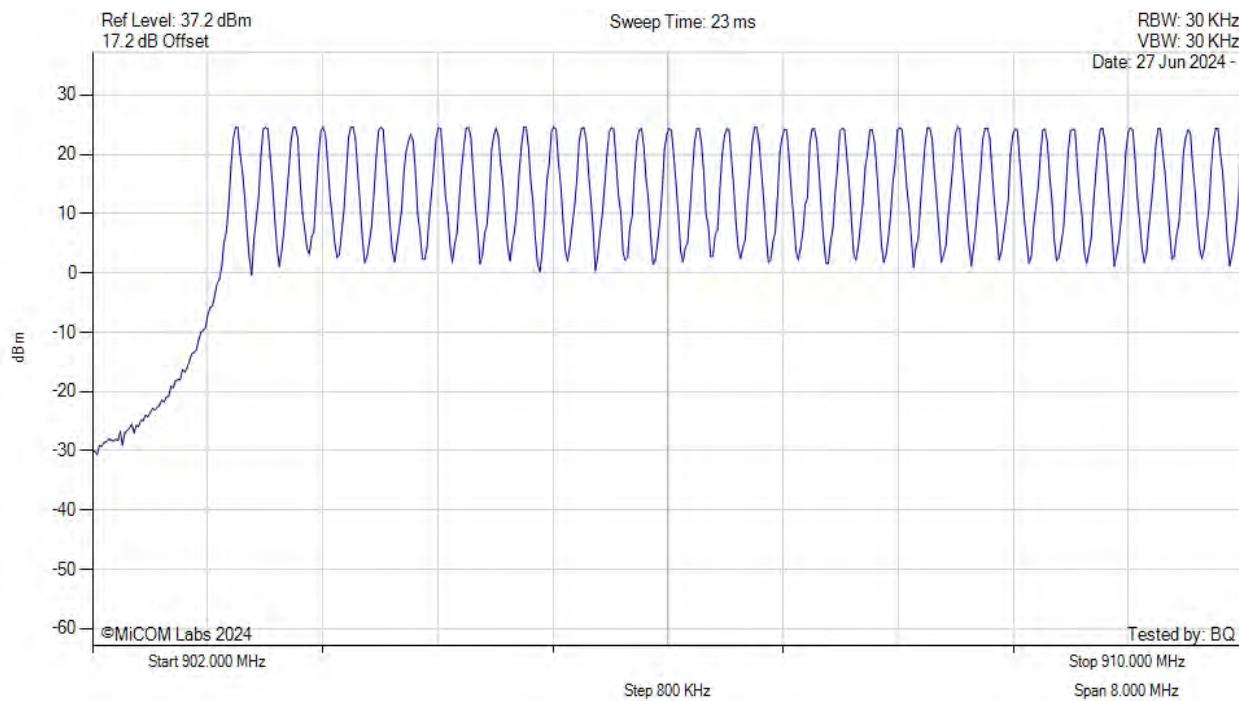
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: OOK PL 3, Channel: 915.00 MHz, Chain a, Temp: 20



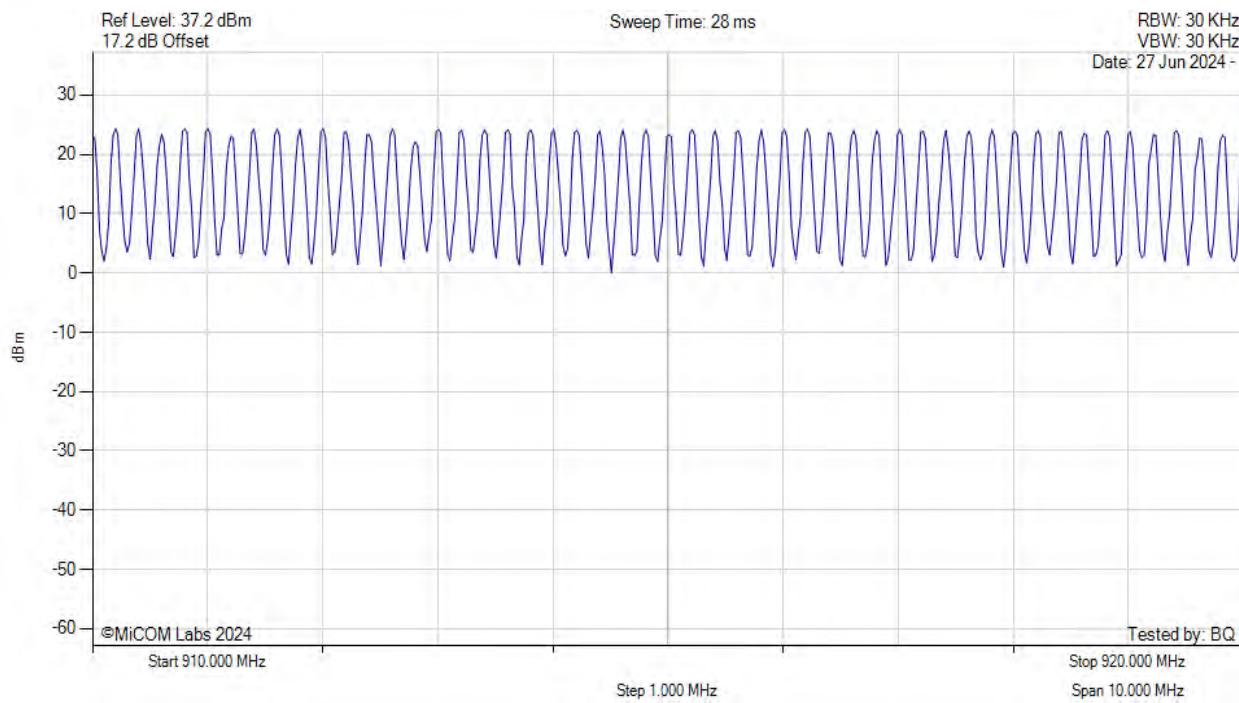
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: OOK PL 3, Channel: 915.00 MHz, Chain a, Temp: 20



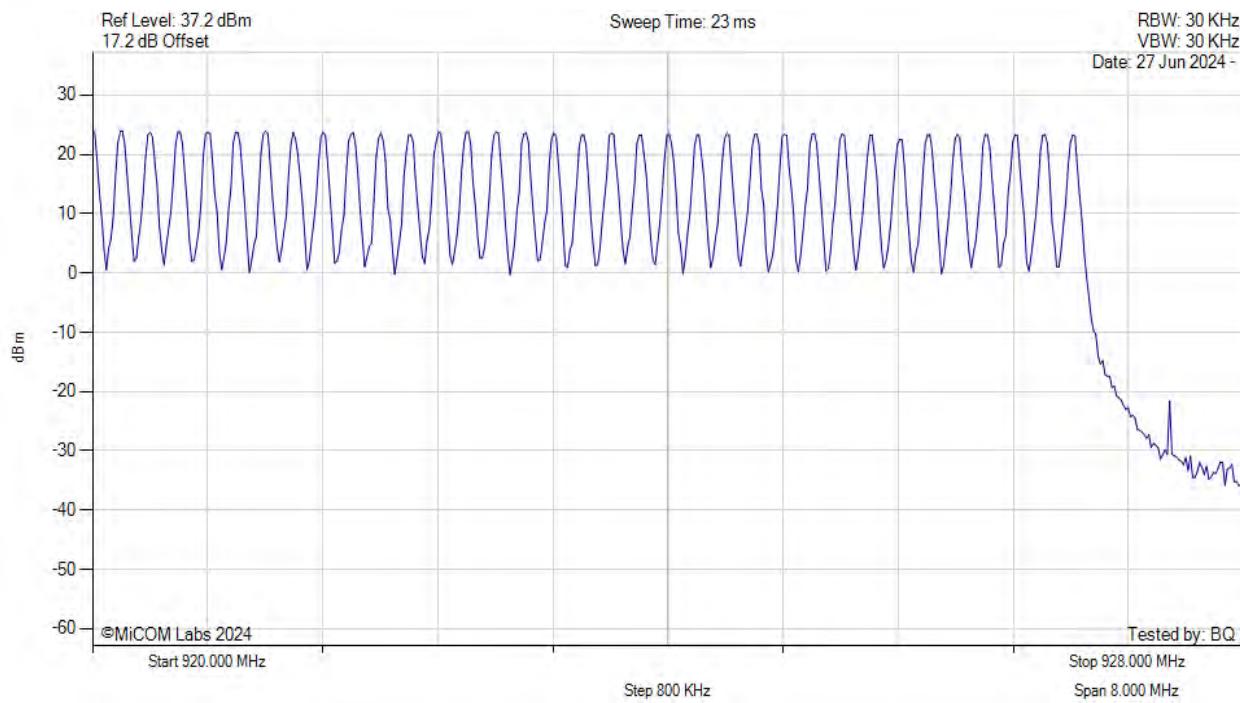
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: OOK PL 3, Channel: 915.00 MHz, Chain a, Temp: 20



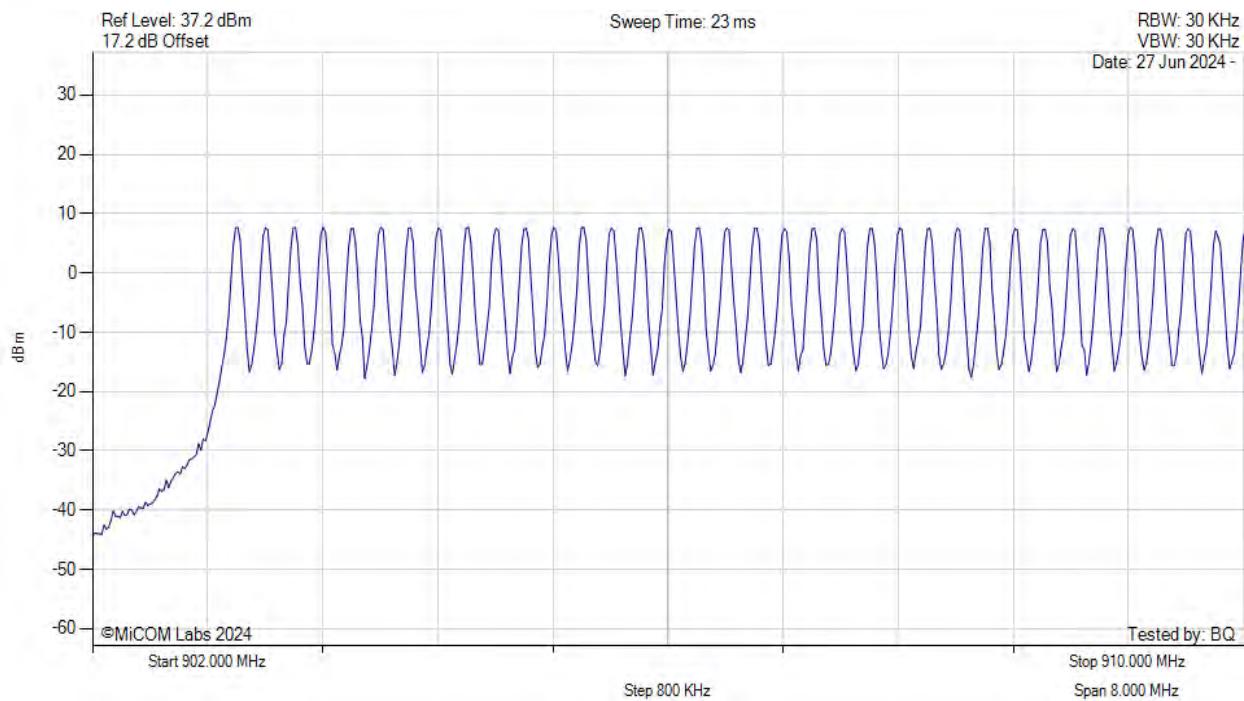
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: OOK PL1, Channel: 915.00 MHz, Chain a, Temp: 20



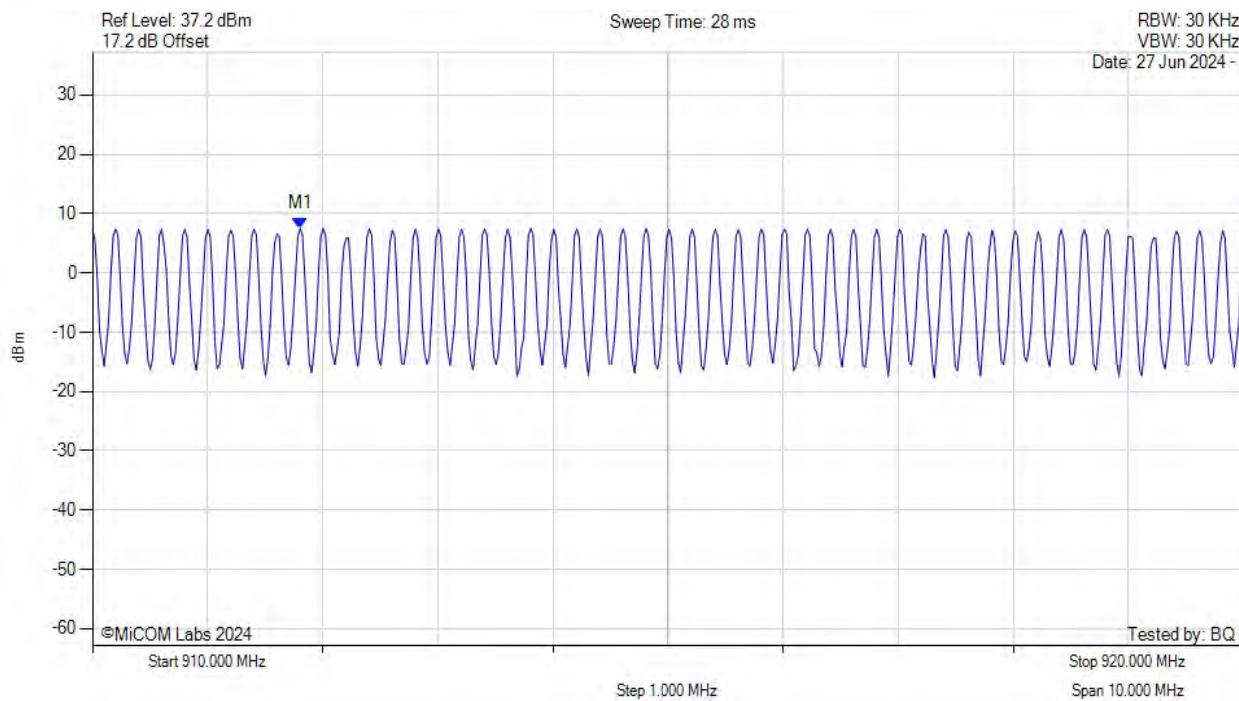
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



Variant: OOK PL1, Channel: 915.00 MHz, Chain a, Temp: 20



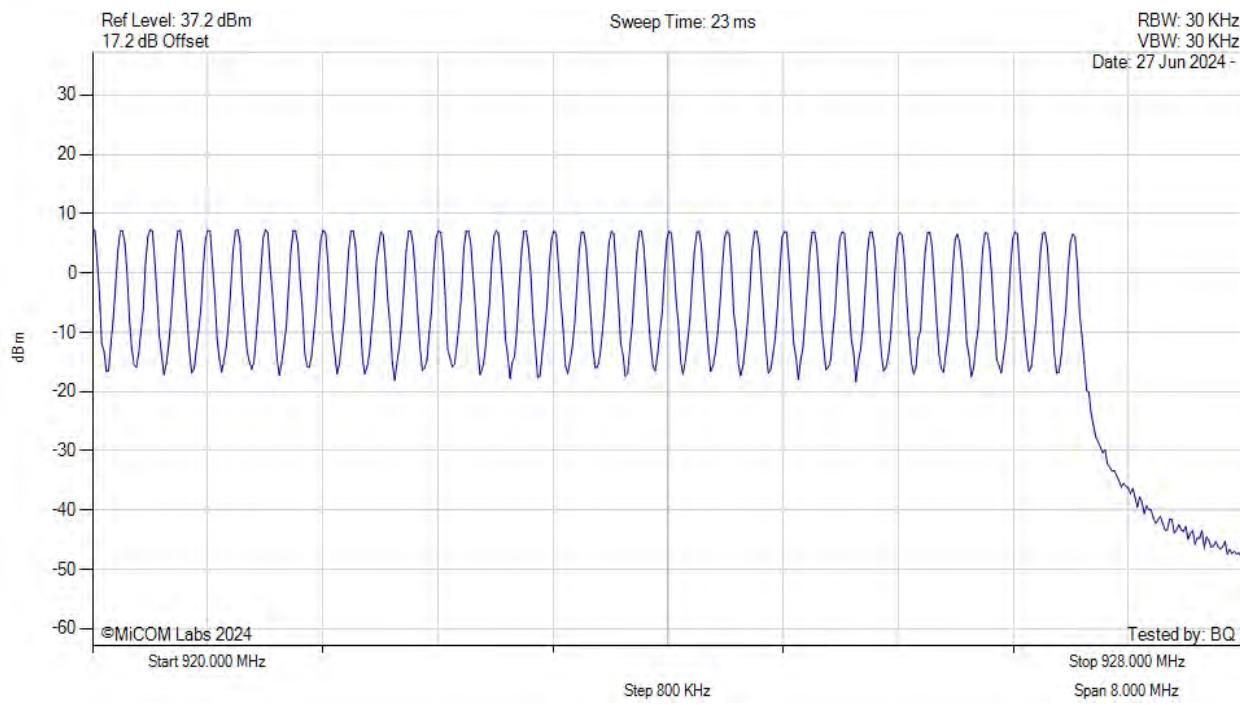
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 911.804 MHz : 7.487 dBm	Channel Frequency: 915.00 MHz

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NUMBER OF HOPPING CHANNELS



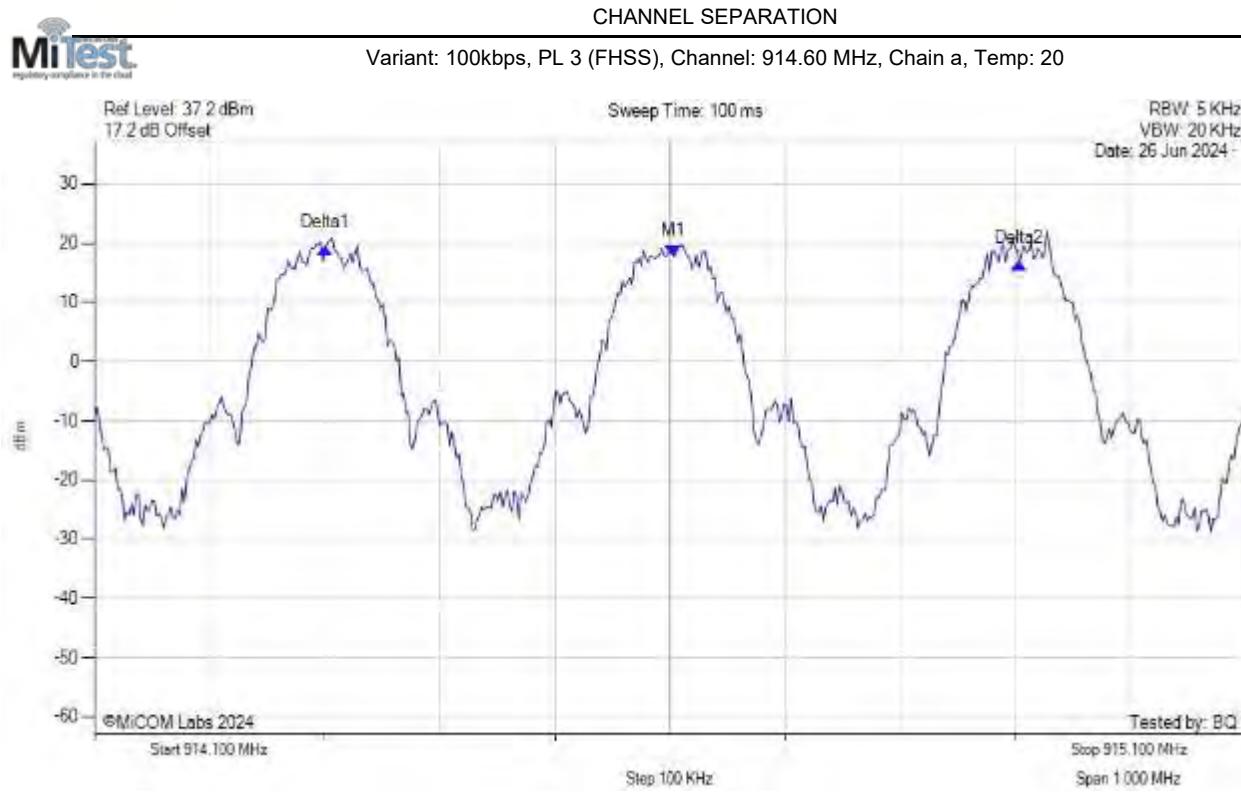
Variant: OOK PL1, Channel: 915.00 MHz, Chain a, Temp: 20



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW		Channel Frequency: 915.00 MHz

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### A.2.2. Channel Separation



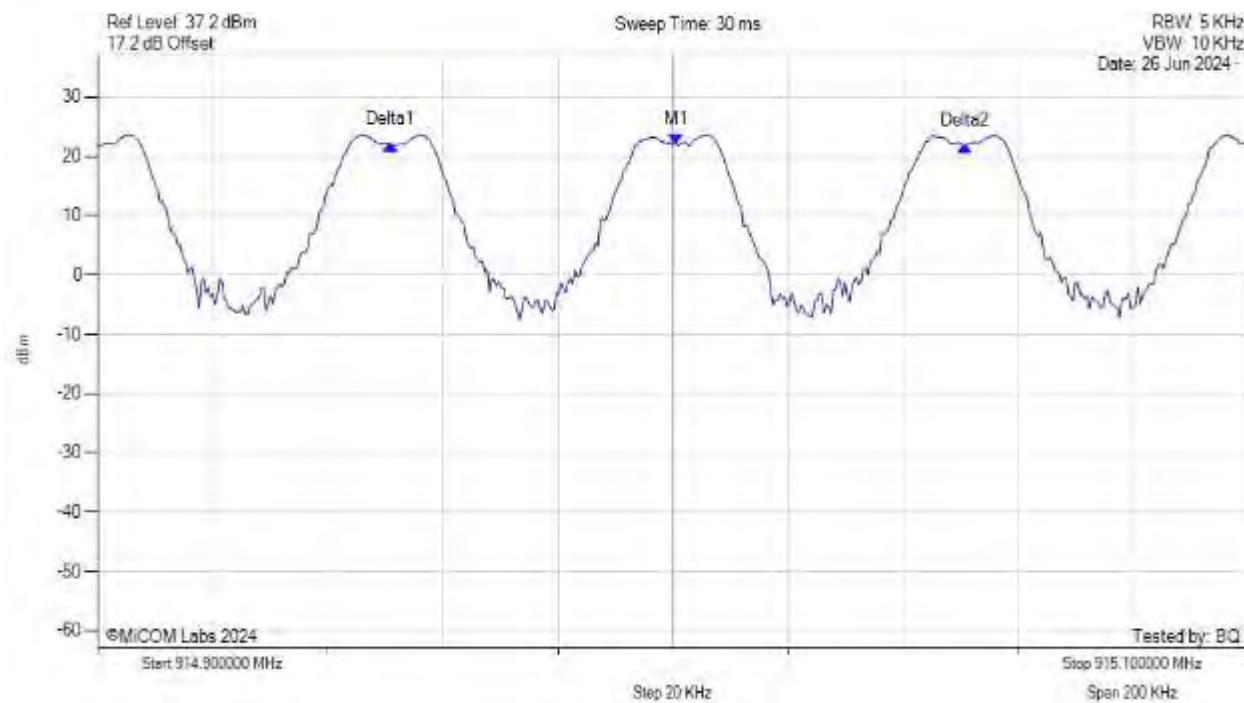
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 914.603 MHz : 17.833 dBm Delta1 : -302605 Hz : 1.361 dB Delta2 : 301 KHz : -1.226 dB	Channel Frequency: 914.60 MHz

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CHANNEL SEPARATION



Variant: 10kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



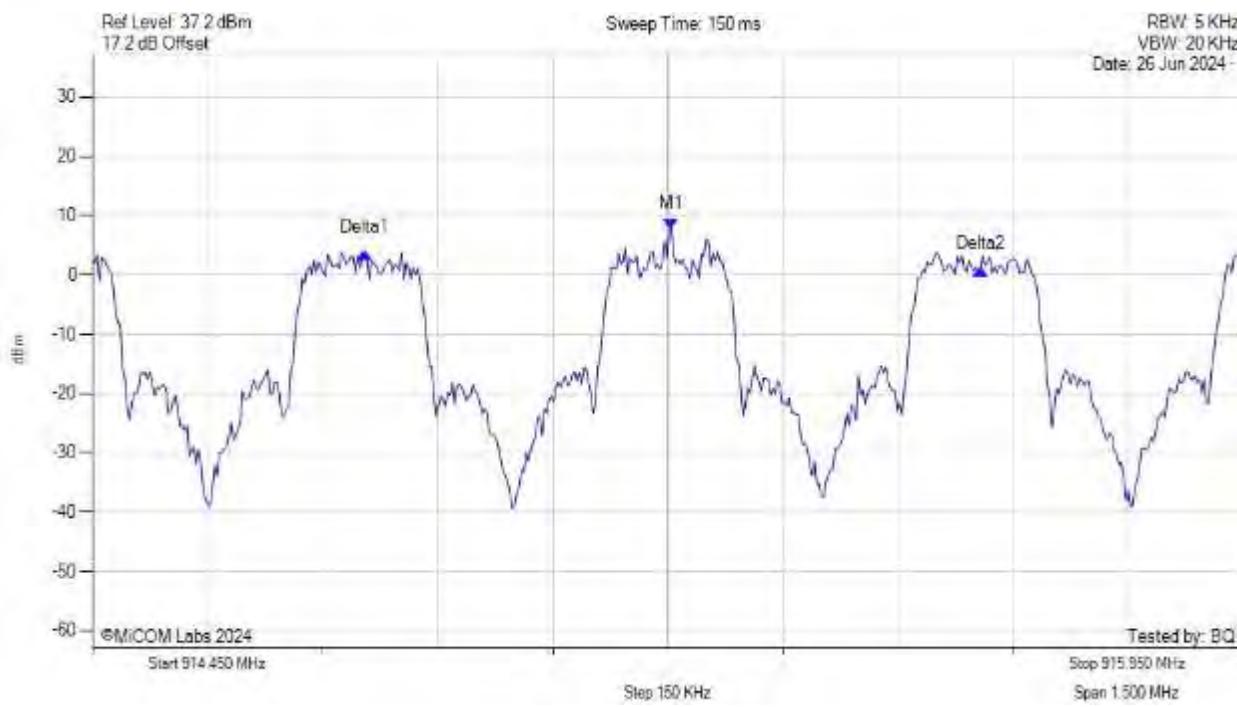
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.001 MHz : 22.014 dBm Delta1 : -49699 Hz : 0.012 dB Delta2 : 50 KHz : -0.252 dB	Channel Frequency: 915.00 MHz

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CHANNEL SEPARATION



Variant: 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



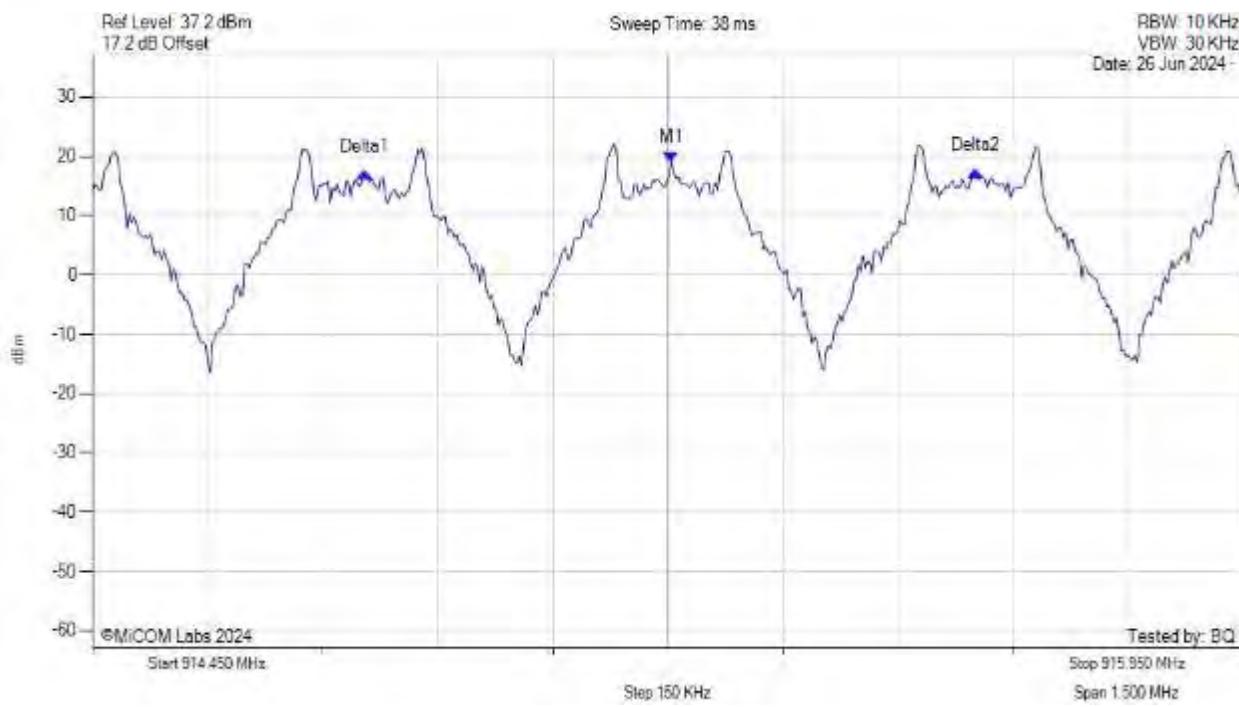
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.205 MHz : 7.798 dBm Delta1 : -399800 Hz : -4.051 dB Delta2 : 403 KHz : -6.870 dB	Channel Frequency: 915.20 MHz

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### CHANNEL SEPARATION



Variant: 150kbps, PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



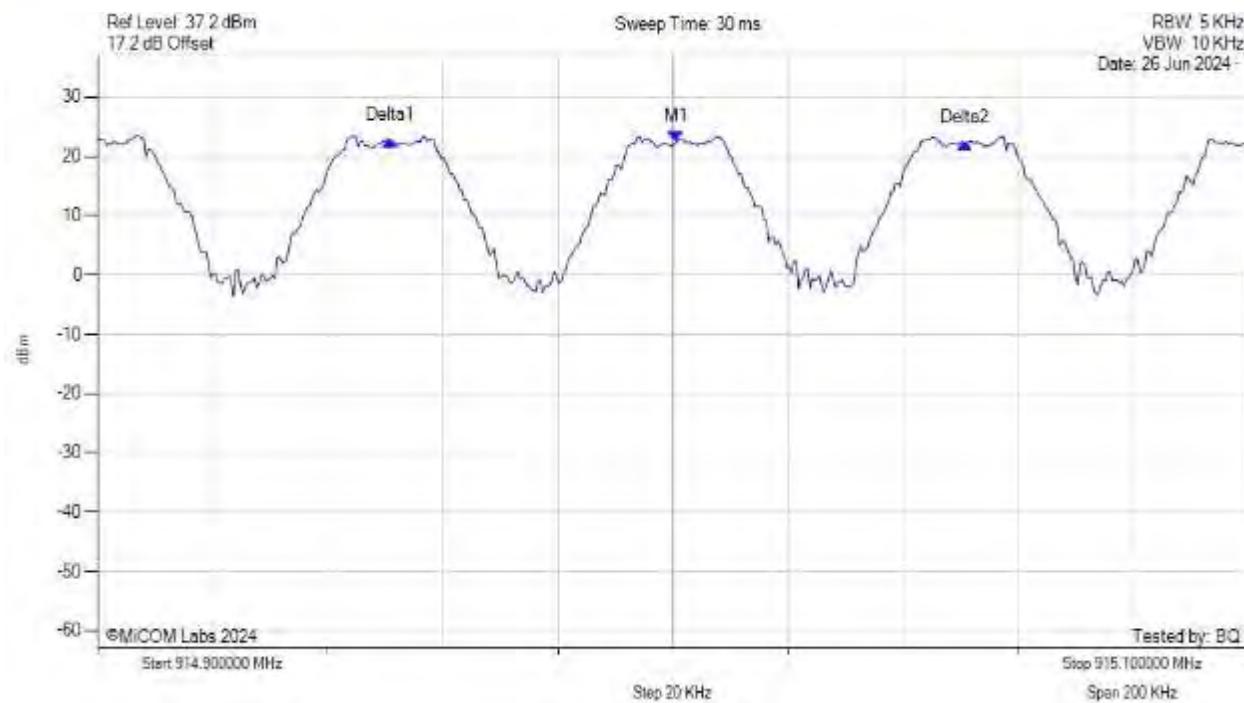
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.205 MHz : 19.006 dBm Delta1 : -399800 Hz : -1.619 dB Delta2 : 397 KHz : -1.535 dB	Channel Frequency: 915.20 MHz

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### CHANNEL SEPARATION



Variant: 25kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



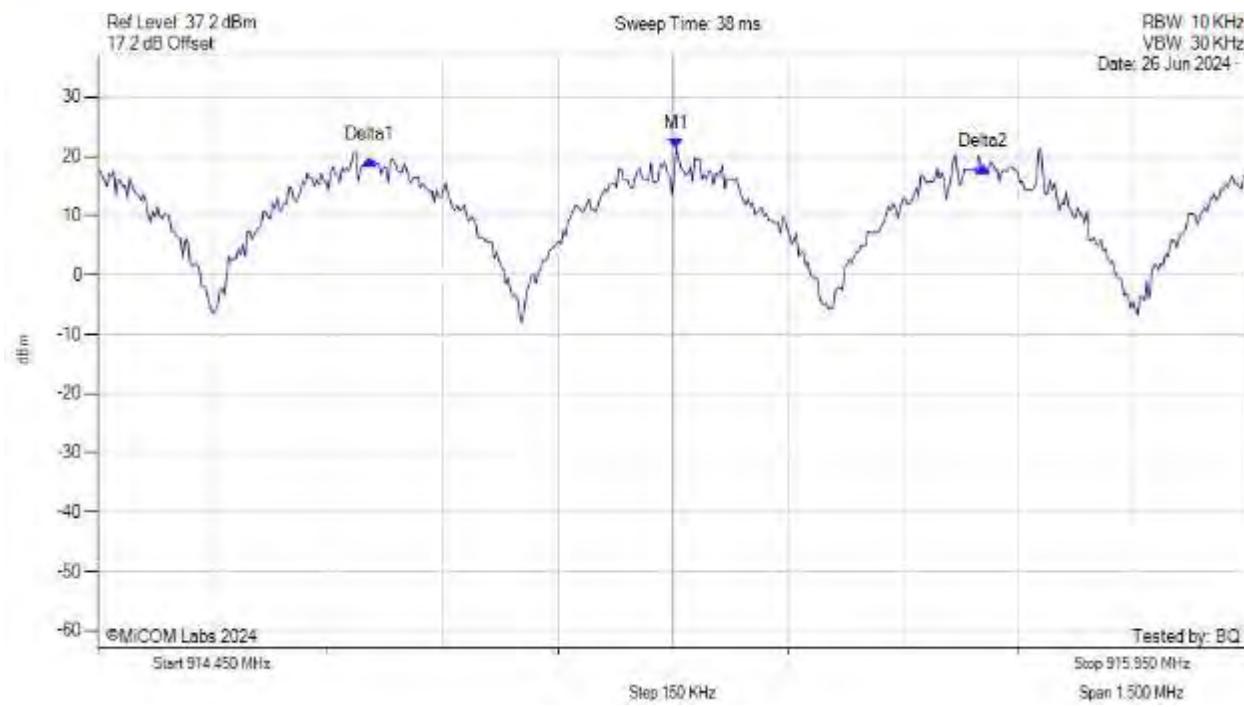
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.001 MHz : 22.425 dBm Delta1 : -49699 Hz : 0.287 dB Delta2 : 50 KHz : -0.114 dB	Channel Frequency: 915.00 MHz

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### CHANNEL SEPARATION



Variant: 300kbps PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



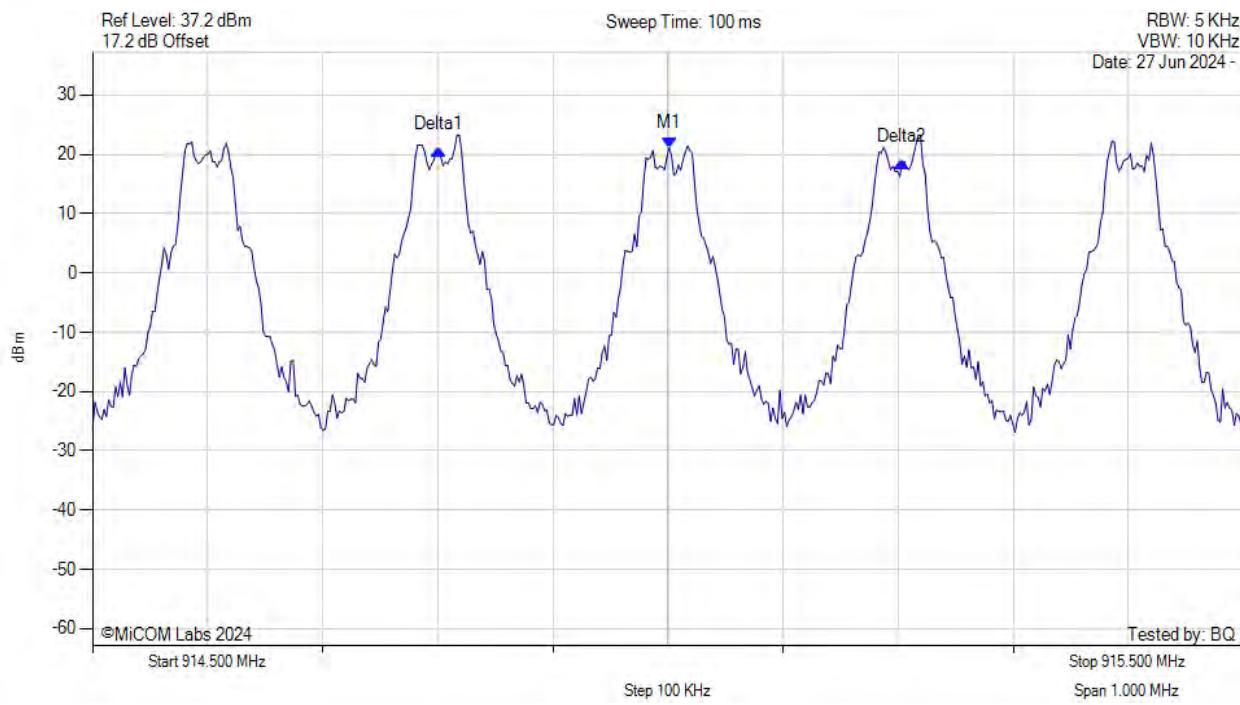
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.205 MHz : 21.182 dBm Delta1 : -399800 Hz : -1.763 dB Delta2 : 400 KHz : -2.965 dB	Channel Frequency: 915.20 MHz

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### CHANNEL SEPARATION



Variant: 37.5kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



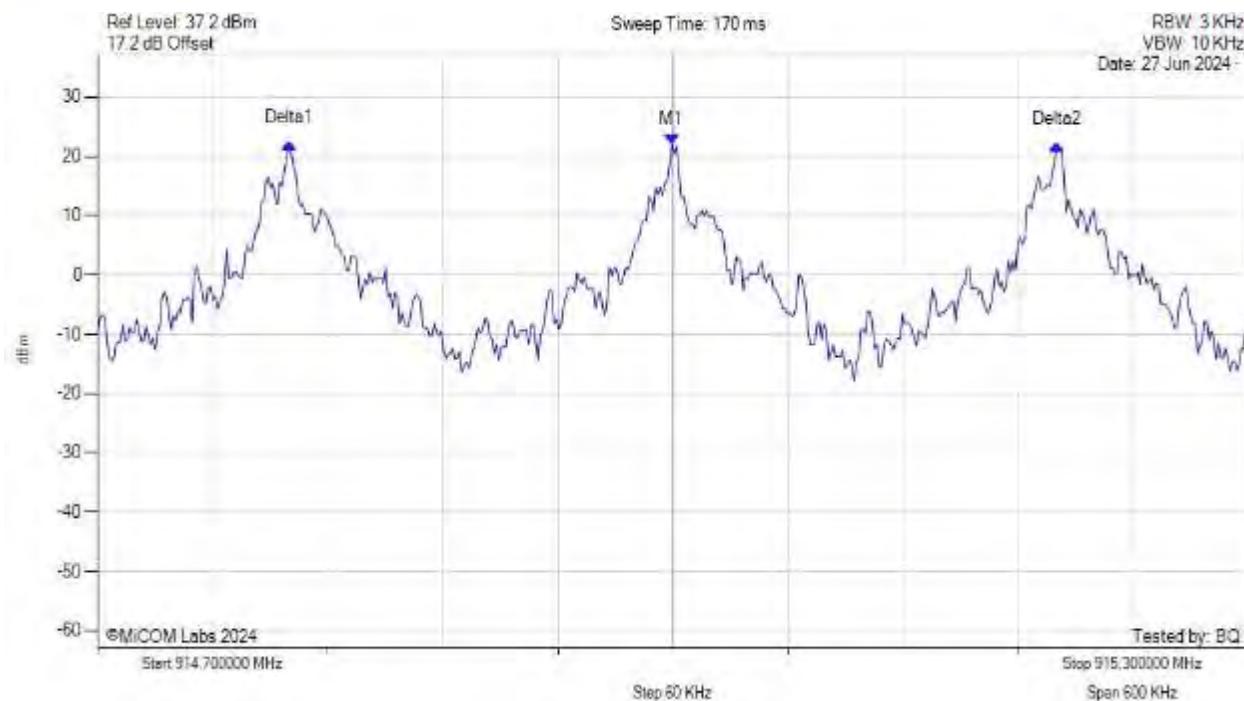
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.001 MHz : 21.127 dBm Delta1 : -200401 Hz : -0.350 dB Delta2 : 202 KHz : -2.382 dB	Channel Frequency: 915.00 MHz

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### CHANNEL SEPARATION



Variant: OOK PL 3, Channel: 915.00 MHz, Chain a, Temp: 20



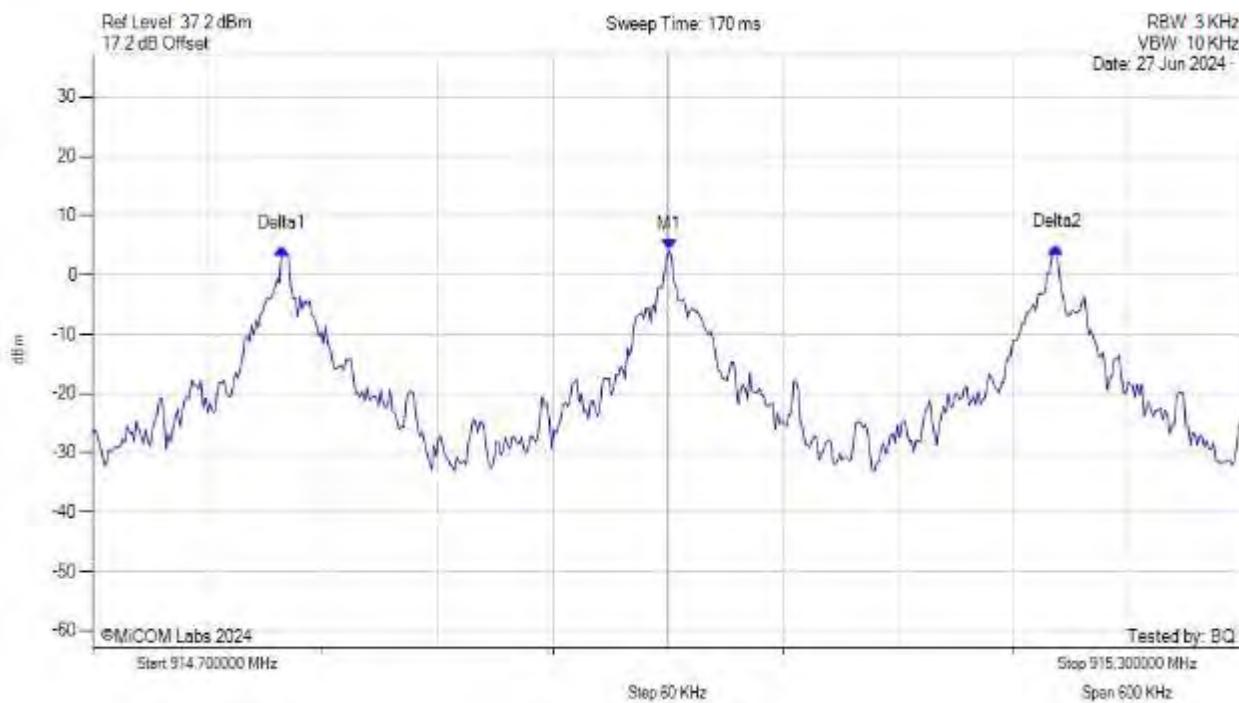
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 914.999 MHz : 21.953 dBm Delta1 : -199599 Hz : 0.177 dB Delta2 : 201 KHz : 0.022 dB	Channel Frequency: 915.00 MHz

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CHANNEL SEPARATION



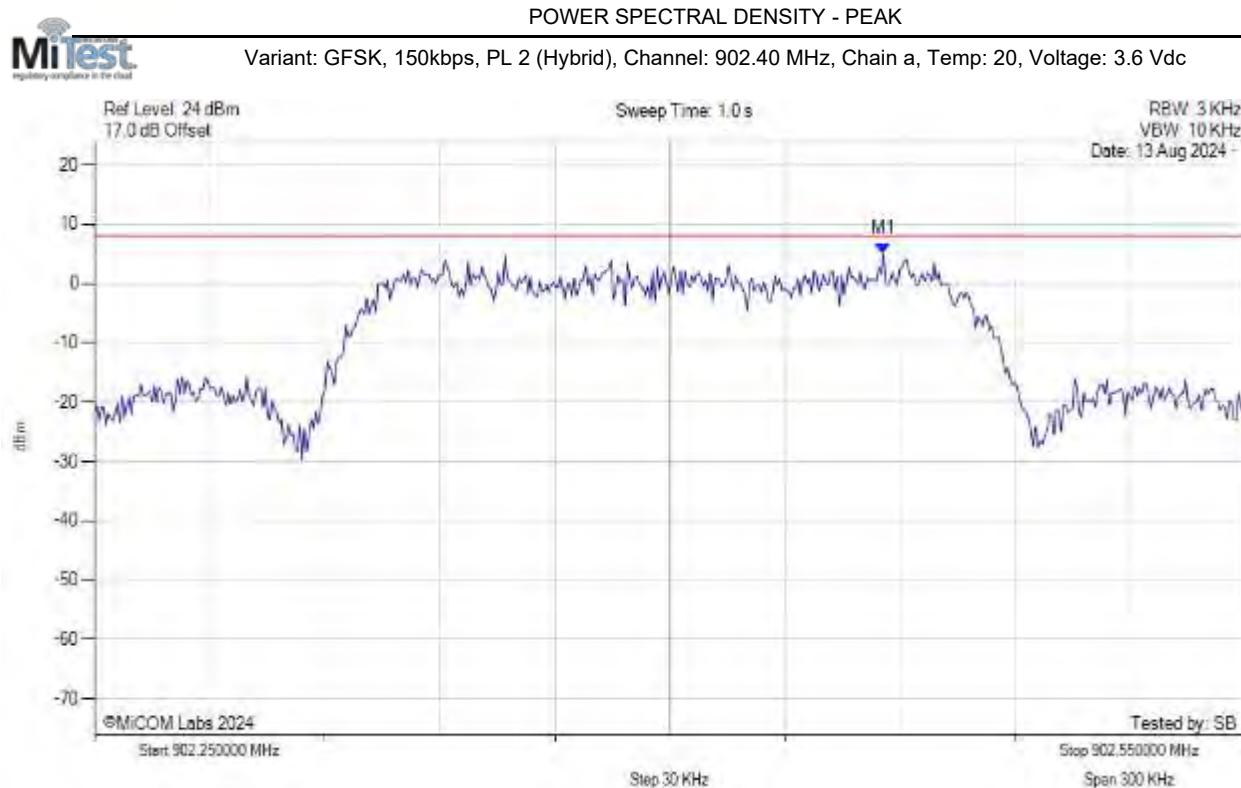
Variant: OOK PL1, Channel: 915.00 MHz, Chain a, Temp: 20



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 915.001 MHz : 4.133 dBm Delta1 : -202004 Hz : 0.407 dB Delta2 : 202 KHz : 0.571 dB	Channel Frequency: 915.00 MHz

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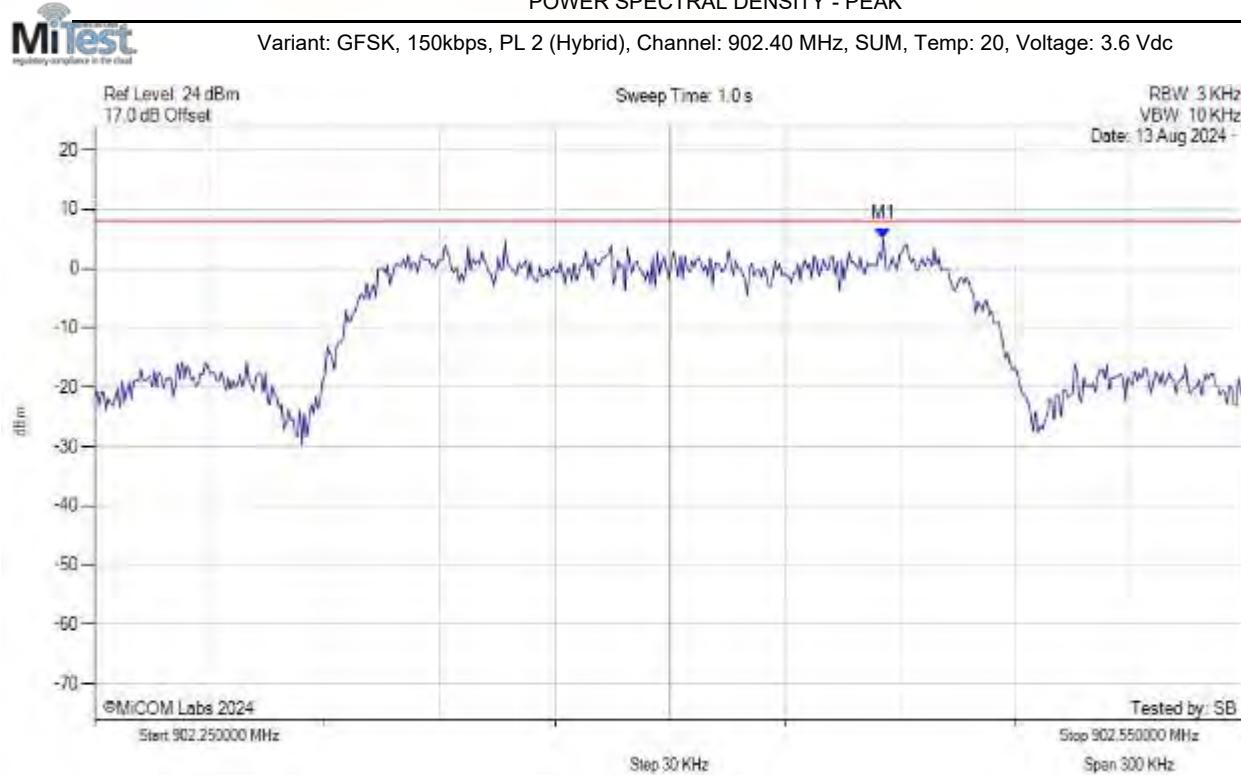
### A.3. Power Spectral Density



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = CLR/WRITE	M1 : 902.456 MHz : 4.954 dBm	Limit: ≤ 8.000 dBm Margin: -3.05 dB

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POWER SPECTRAL DENSITY - PEAK



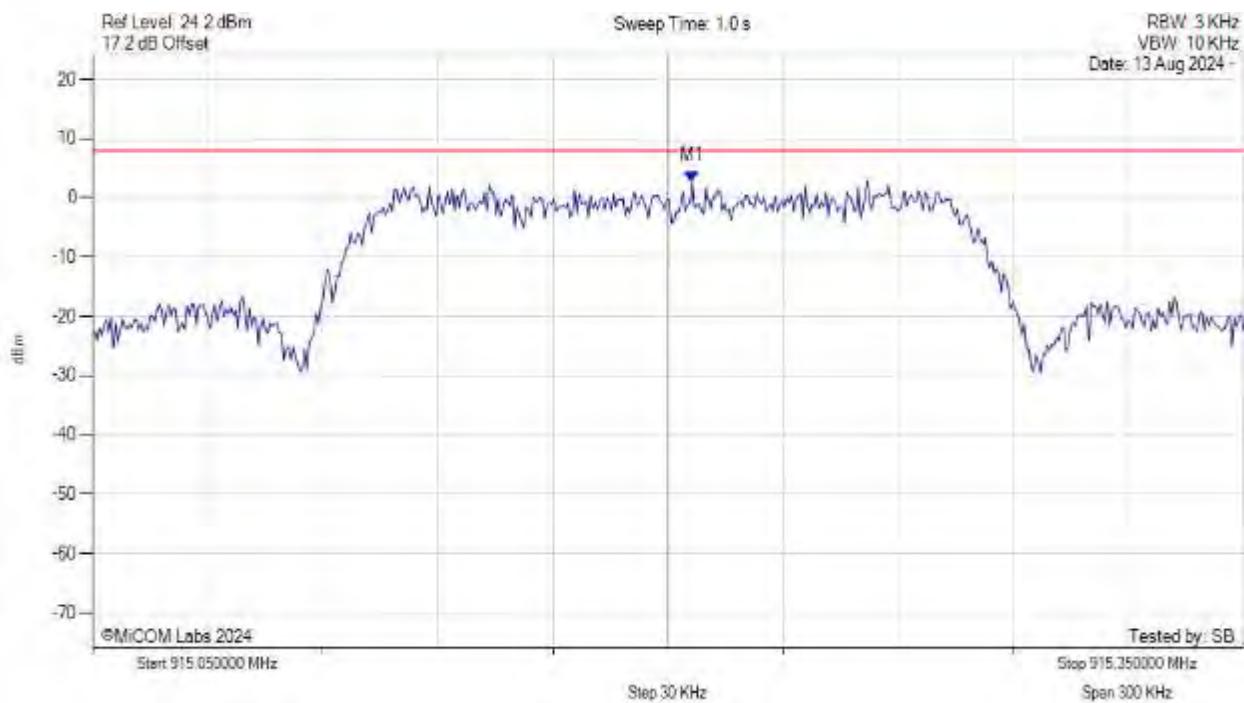
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = CLR/WRITE	M1 : 902.456 MHz : 4.954 dBm	Limit: ≤ 8.0 dBm Margin: -3.0 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20, Voltage: 3.6 Vdc



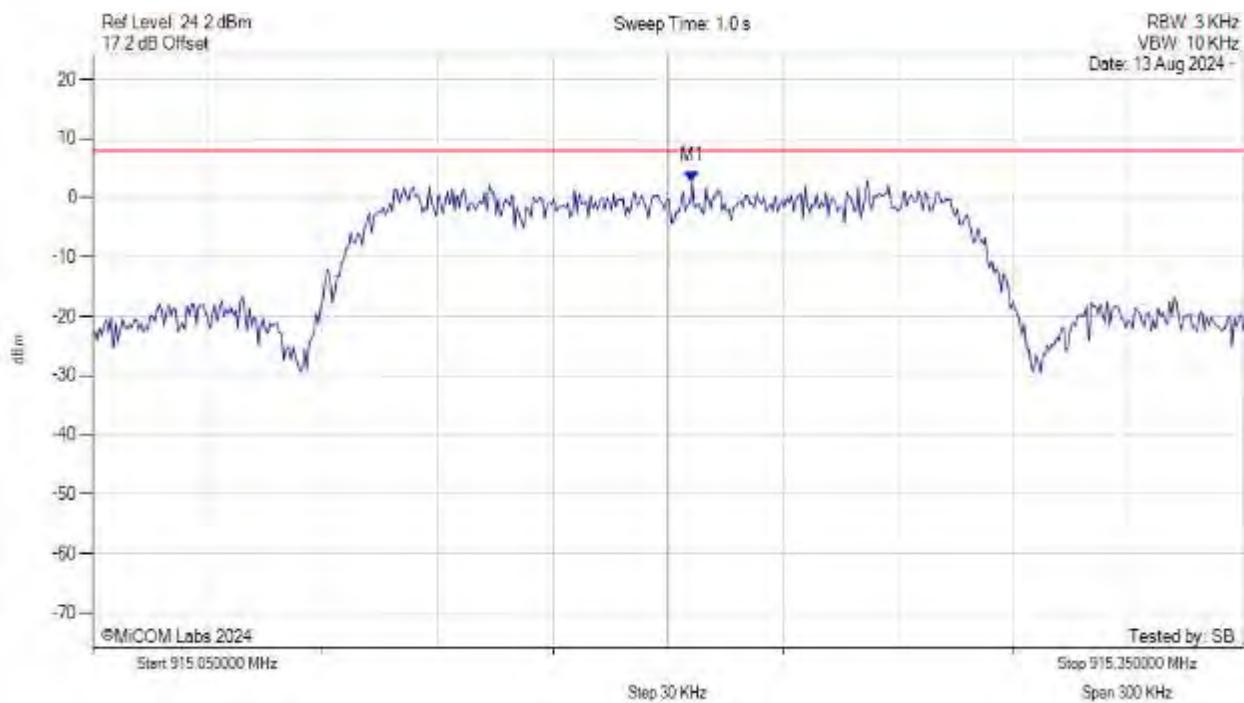
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = CLR/WRITE	M1 : 915.206 MHz : 2.791 dBm	Limit: ≤ 8.000 dBm Margin: -5.21 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, SUM, Temp: 20, Voltage: 3.6 Vdc



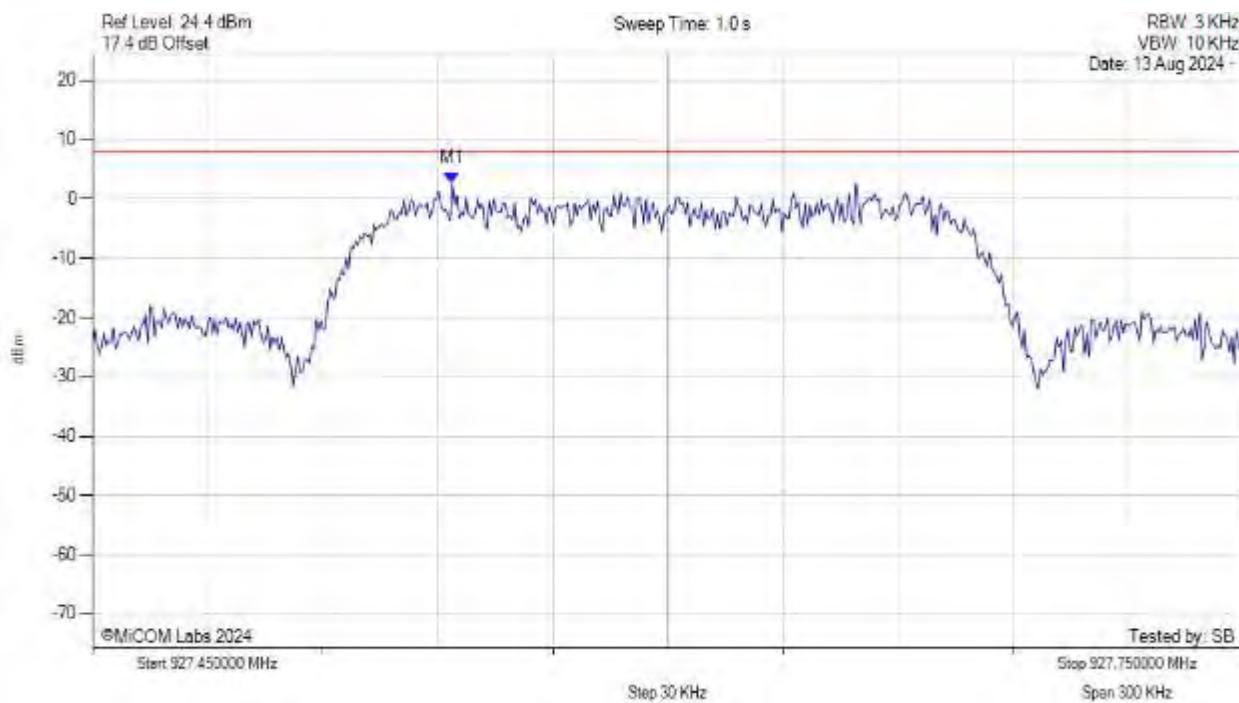
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = CLR/WRITE	M1 : 915.206 MHz : 2.791 dBm	Limit: ≤ 8.0 dBm Margin: -5.2 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 150kbps, PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20, Voltage: 3.6 Vdc



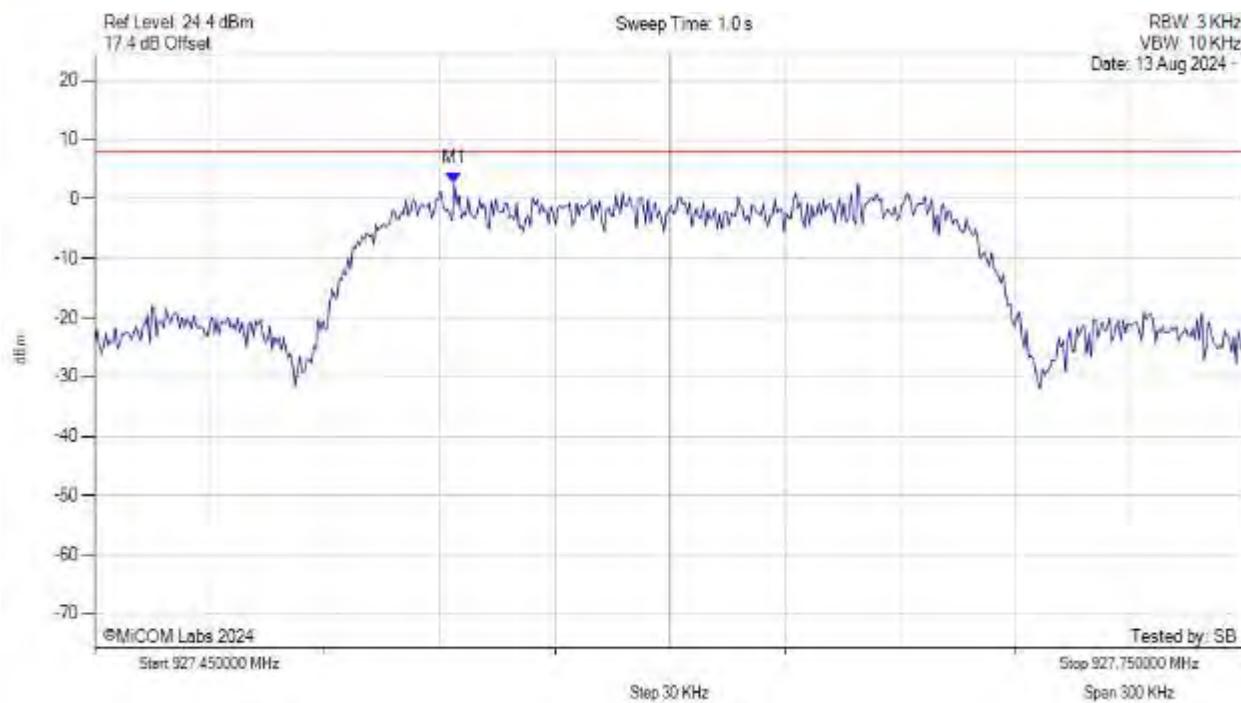
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = CLR/WRITE	M1 : 927.544 MHz : 2.621 dBm	Limit: ≤ 8.000 dBm Margin: -5.38 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 150kbps, PL 2 (Hybrid), Channel: 927.60 MHz, SUM, Temp: 20, Voltage: 3.6 Vdc



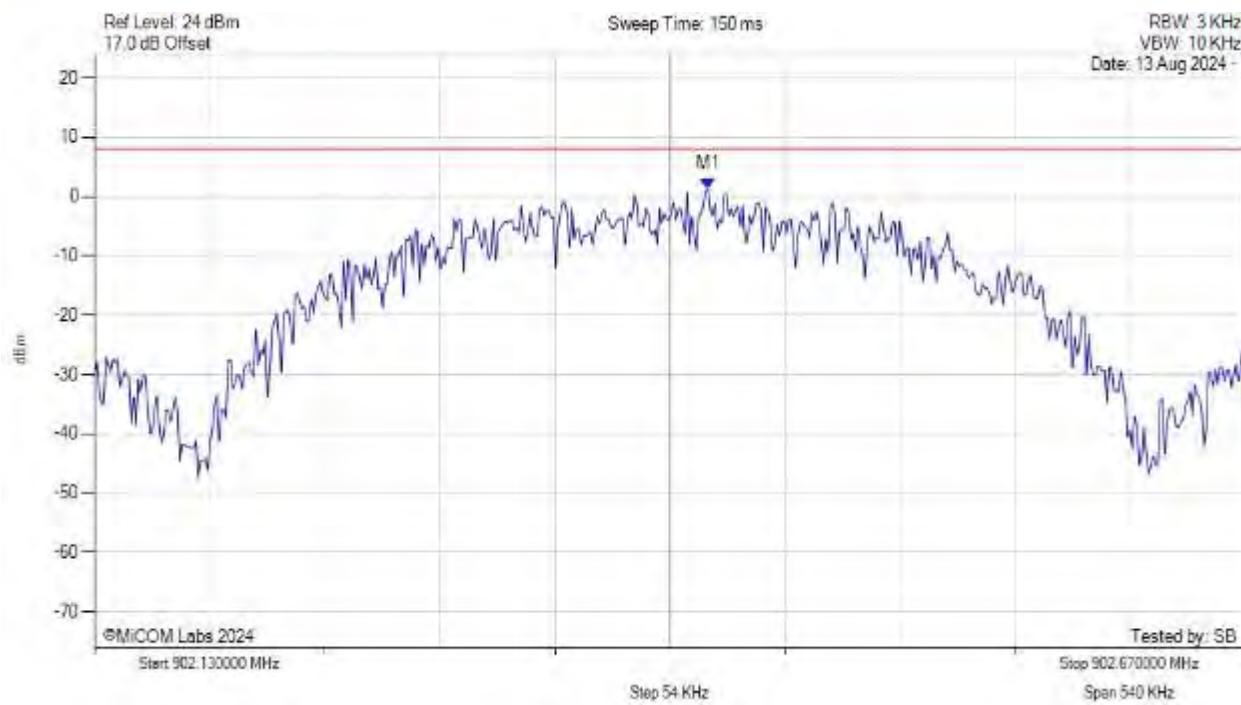
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = CLR/WRITE	M1 : 927.544 MHz : 2.621 dBm	Limit: ≤ 8.0 dBm Margin: -5.4 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 300kbps PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20, Voltage: 3.6 Vdc



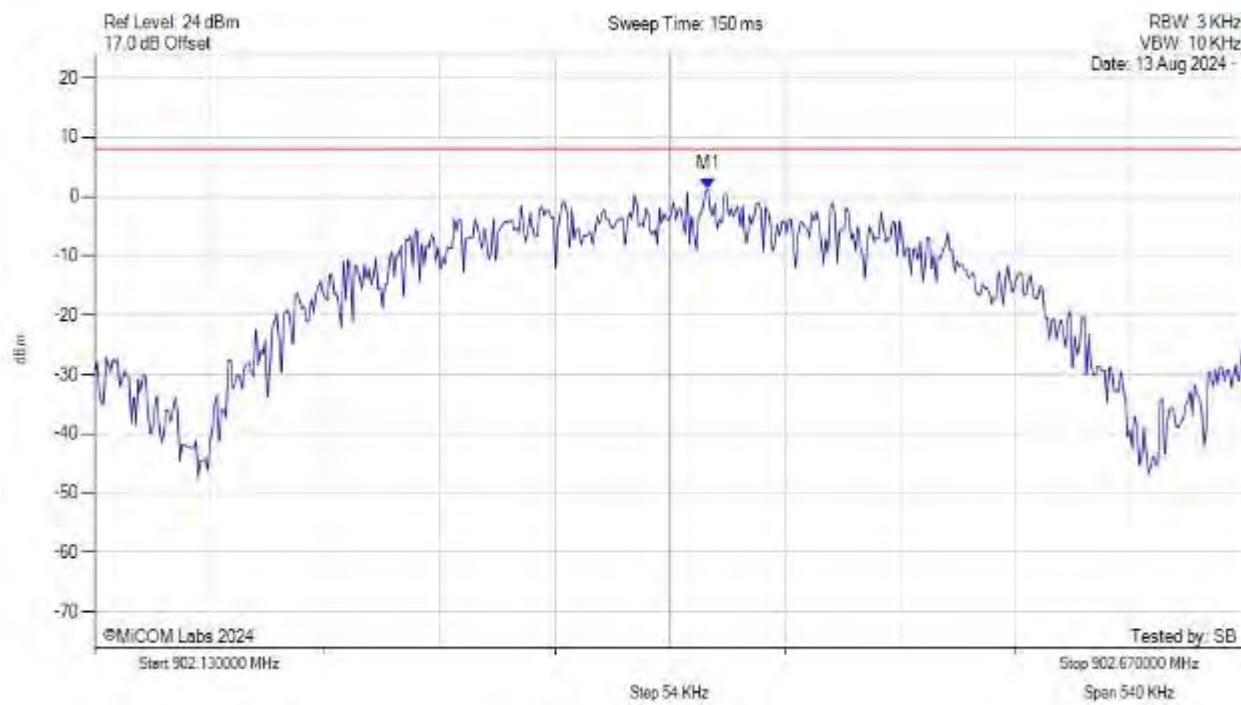
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 902.418 MHz : 1.346 dBm	Limit: ≤ 8.000 dBm Margin: -6.65 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 300kbps PL 2 (Hybrid), Channel: 902.40 MHz, SUM, Temp: 20, Voltage: 3.6 Vdc



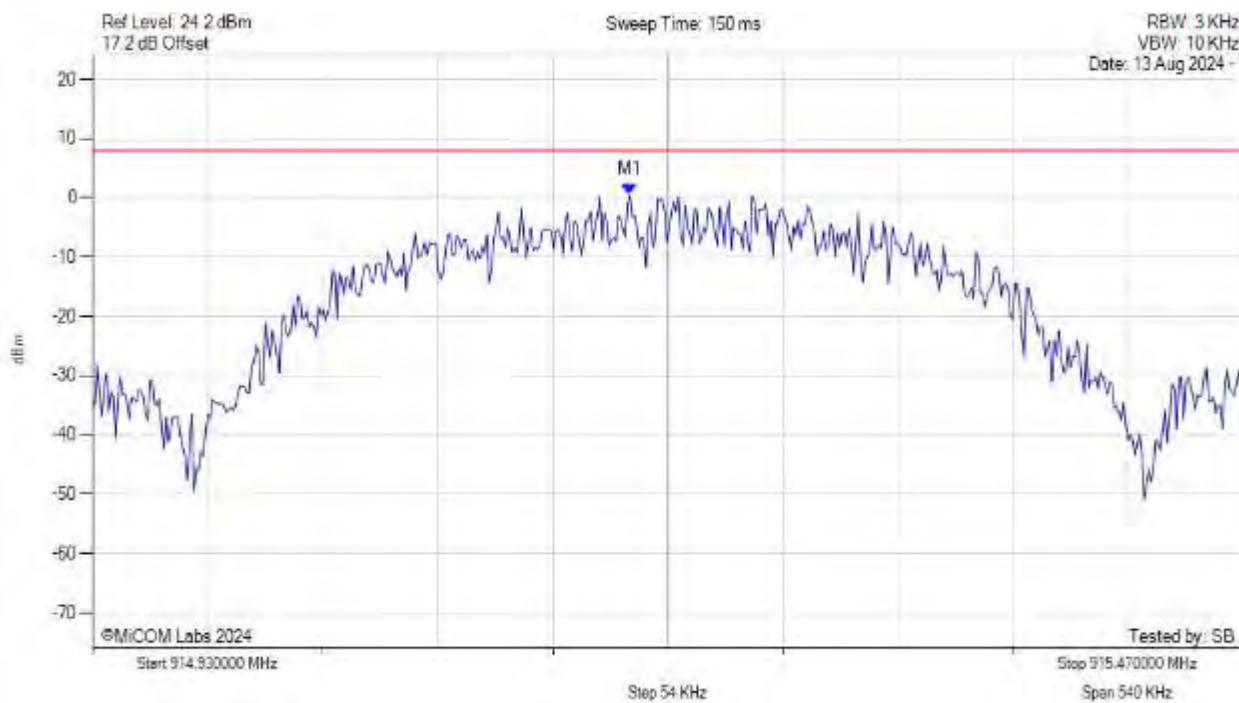
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 902.418 MHz : 1.346 dBm	Limit: ≤ 8.0 dBm Margin: -6.7 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 300kbps PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20, Voltage: 3.6 Vdc



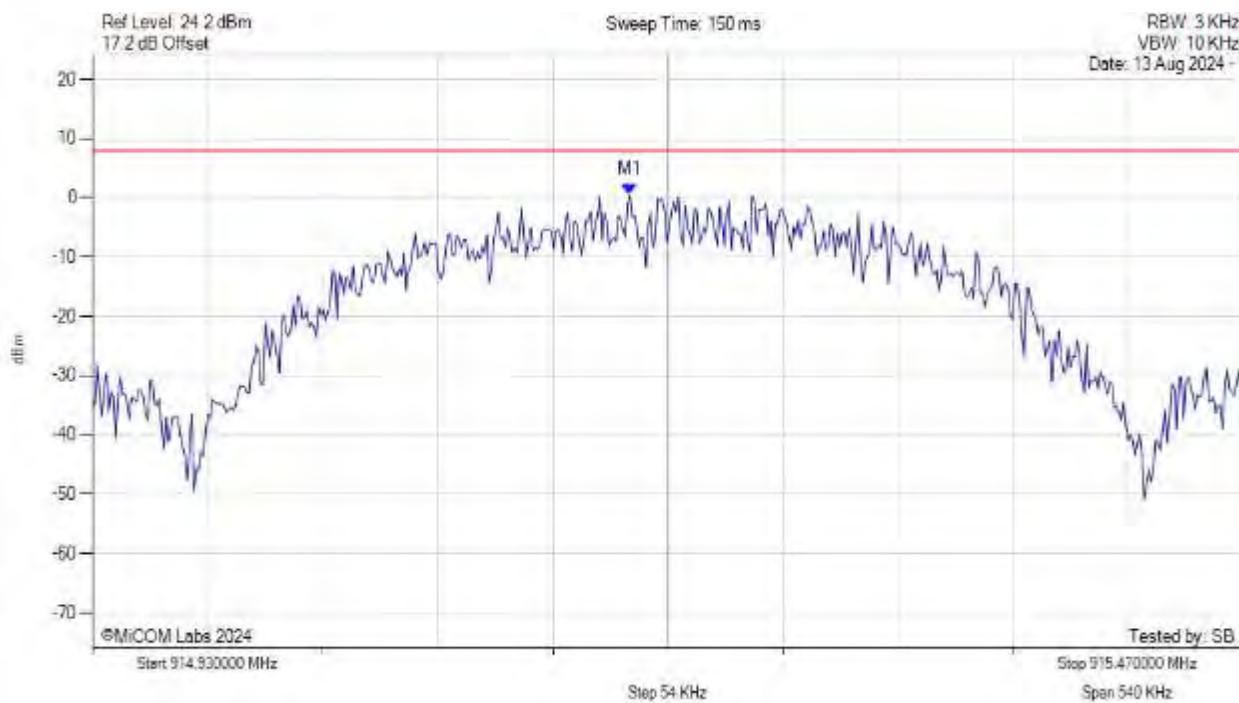
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 915.182 MHz : 0.480 dBm	Limit: ≤ 8.000 dBm Margin: -7.52 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 300kbps PL 2 (Hybrid), Channel: 915.20 MHz, SUM, Temp: 20, Voltage: 3.6 Vdc



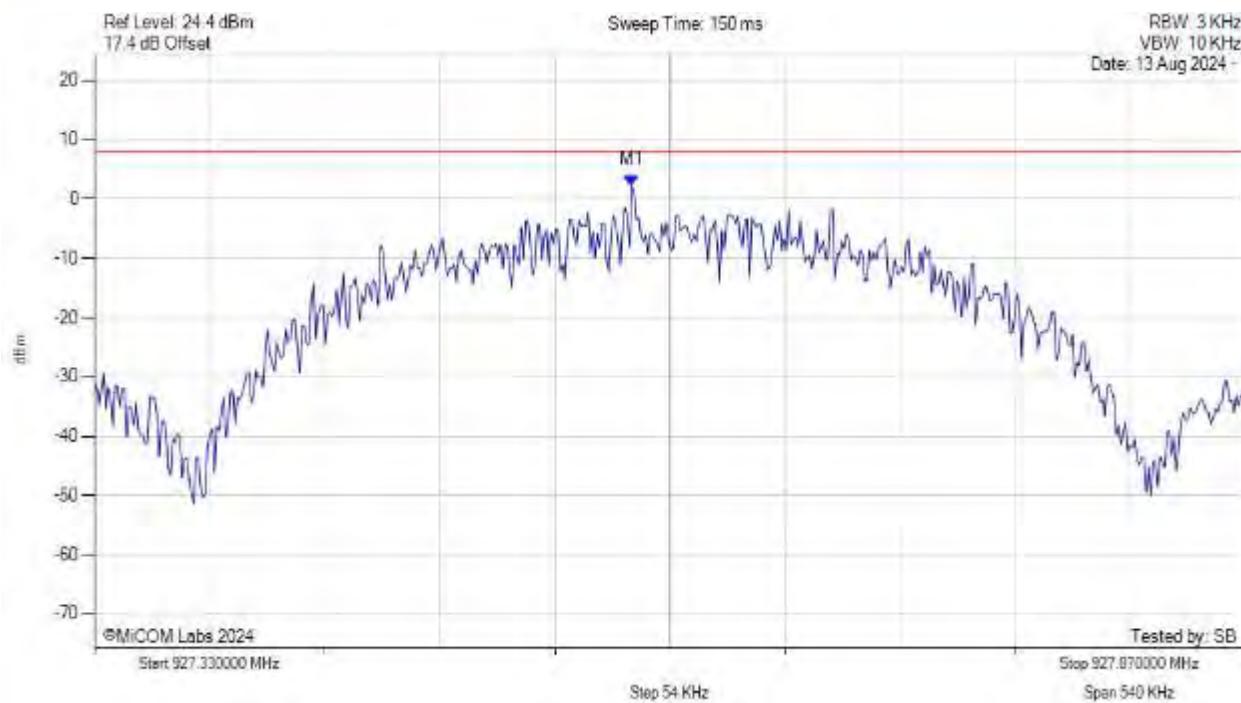
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 915.182 MHz : 0.480 dBm	Limit: ≤ 8.0 dBm Margin: -7.5 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 300kbps PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20, Voltage: 3.6 Vdc



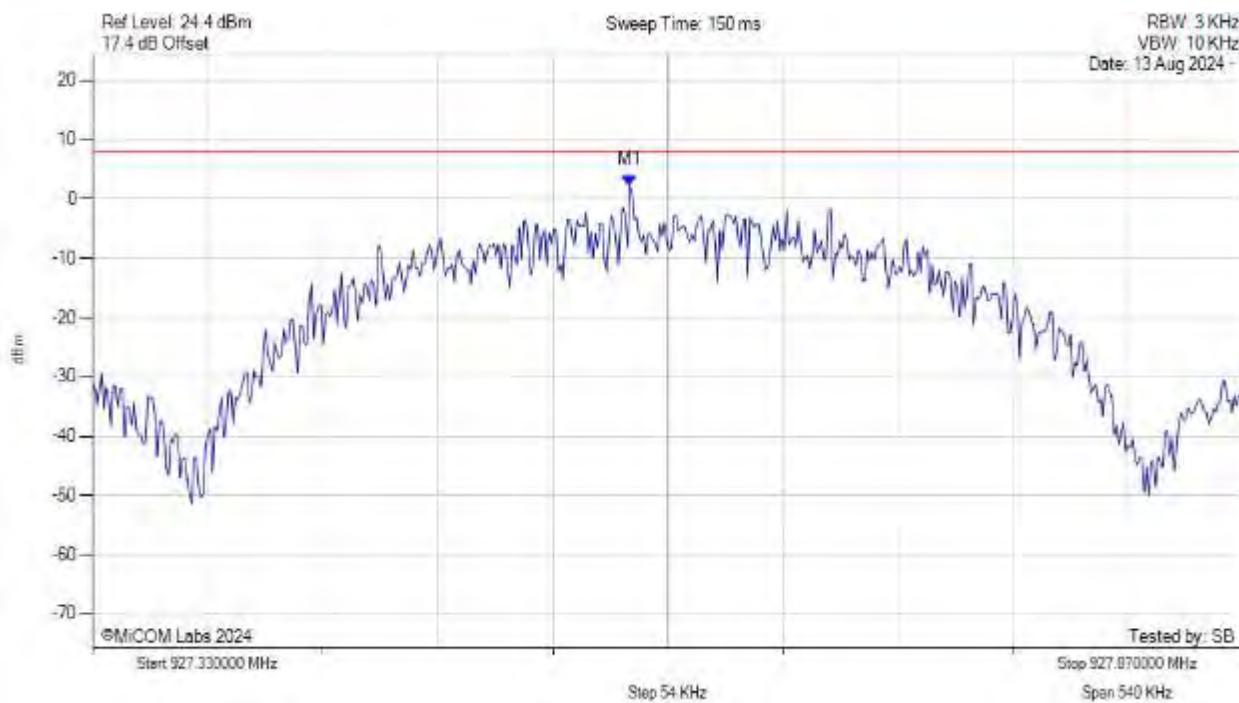
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 927.582 MHz : 2.277 dBm	Limit: ≤ 8.000 dBm Margin: -5.72 dB

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POWER SPECTRAL DENSITY - PEAK



Variant: GFSK, 300kbps PL 2 (Hybrid), Channel: 927.60 MHz, SUM, Temp: 20, Voltage: 3.6 Vdc



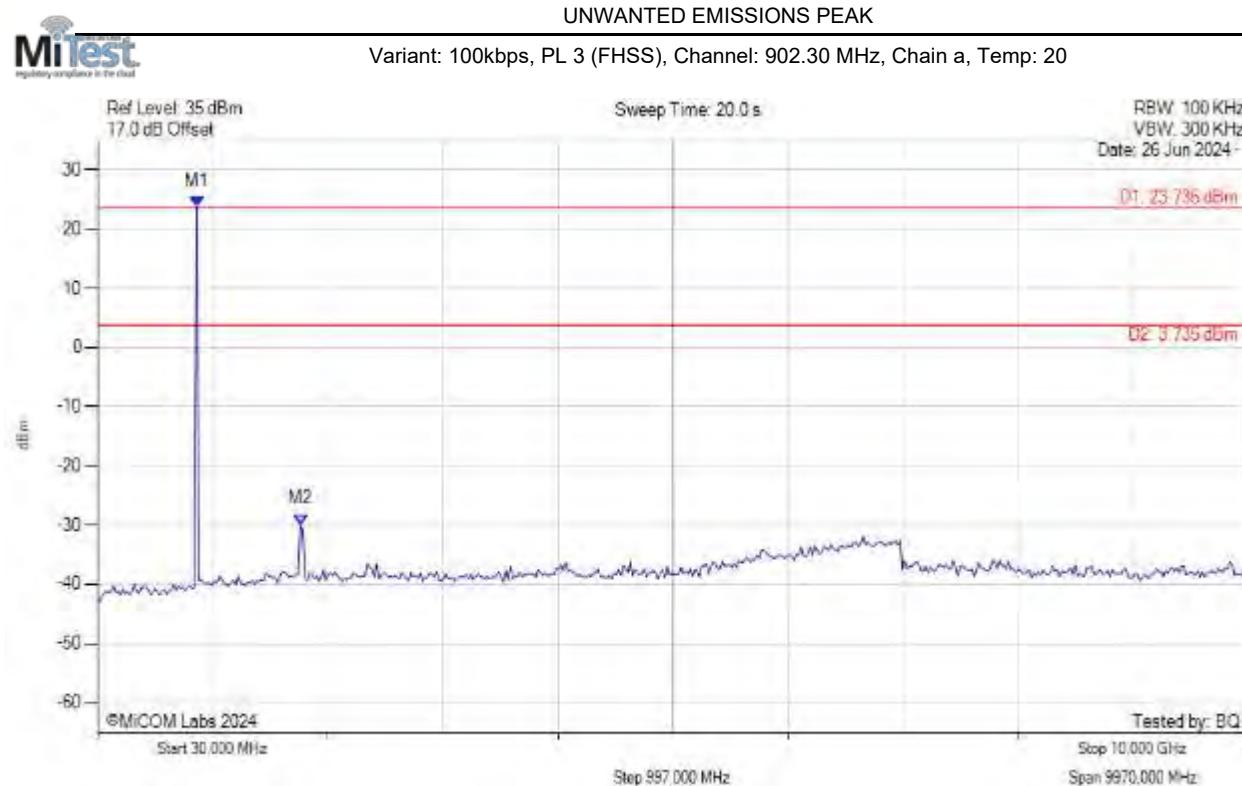
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 927.582 MHz : 2.277 dBm	Limit: ≤ 8.0 dBm Margin: -5.7 dB

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## A.4. Emissions

### A.4.1. Conducted Emissions

#### A.4.1.1. Conducted Unwanted Spurious Emissions



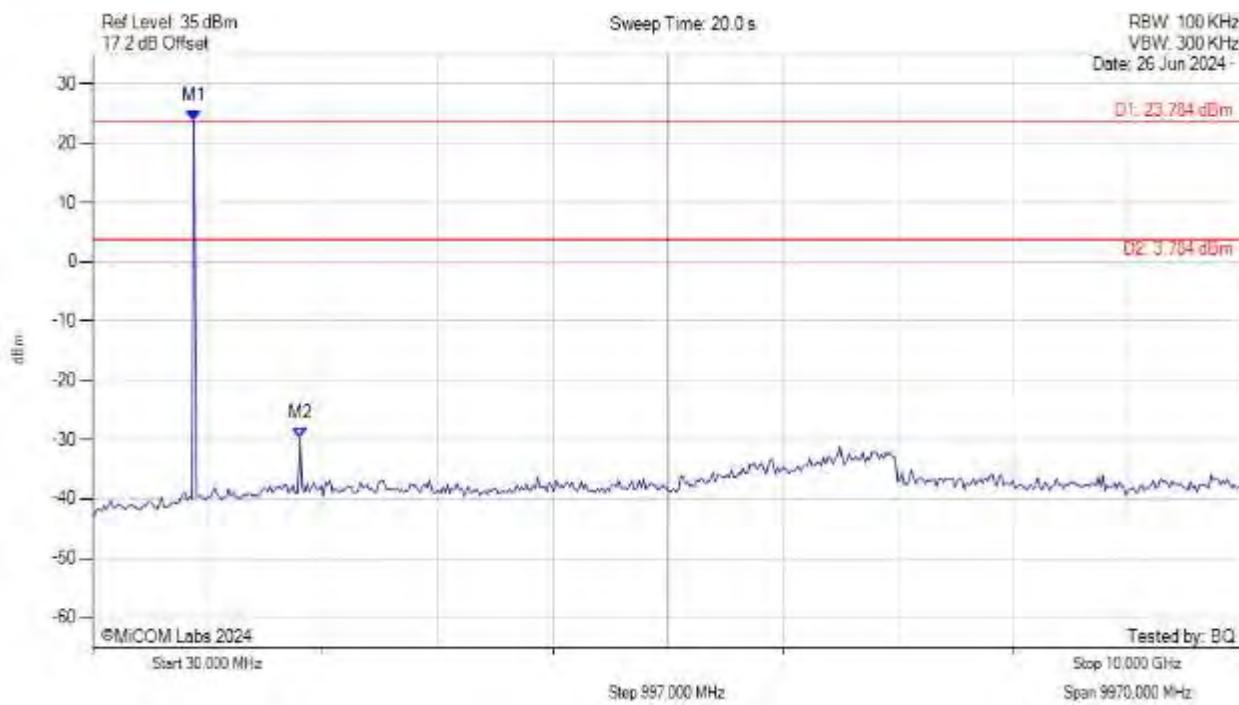
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 23.735 dBm M2 : 1788.236 MHz : -29.868 dBm	Limit: 3.74 dBm Margin: -33.61 dB

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UNWANTED EMISSIONS PEAK



Variant: 100kbps, PL 3 (FHSS), Channel: 914.60 MHz, Chain a, Temp: 20



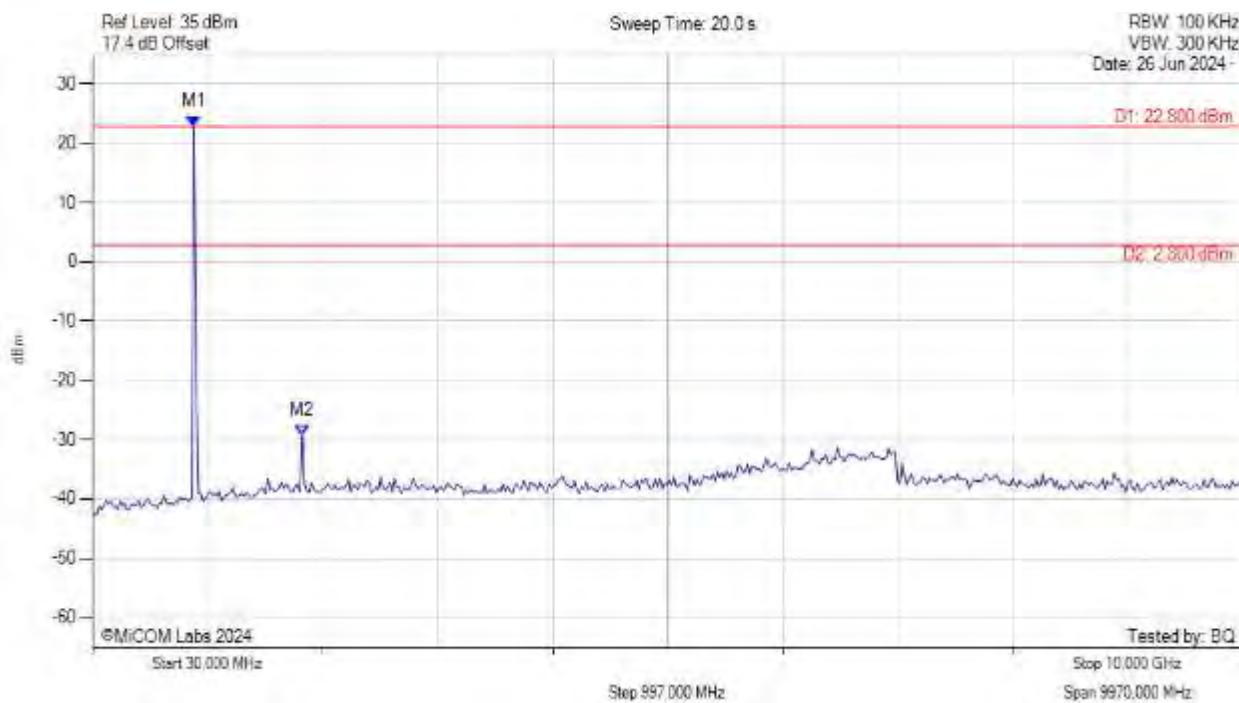
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.784 dBm M2 : 1828.196 MHz : -29.793 dBm	Limit: 3.78 dBm Margin: -33.57 dB

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UNWANTED EMISSIONS PEAK



Variant: 100kbps, PL 3 (FHSS), Channel: 926.90 MHz, Chain a, Temp: 20



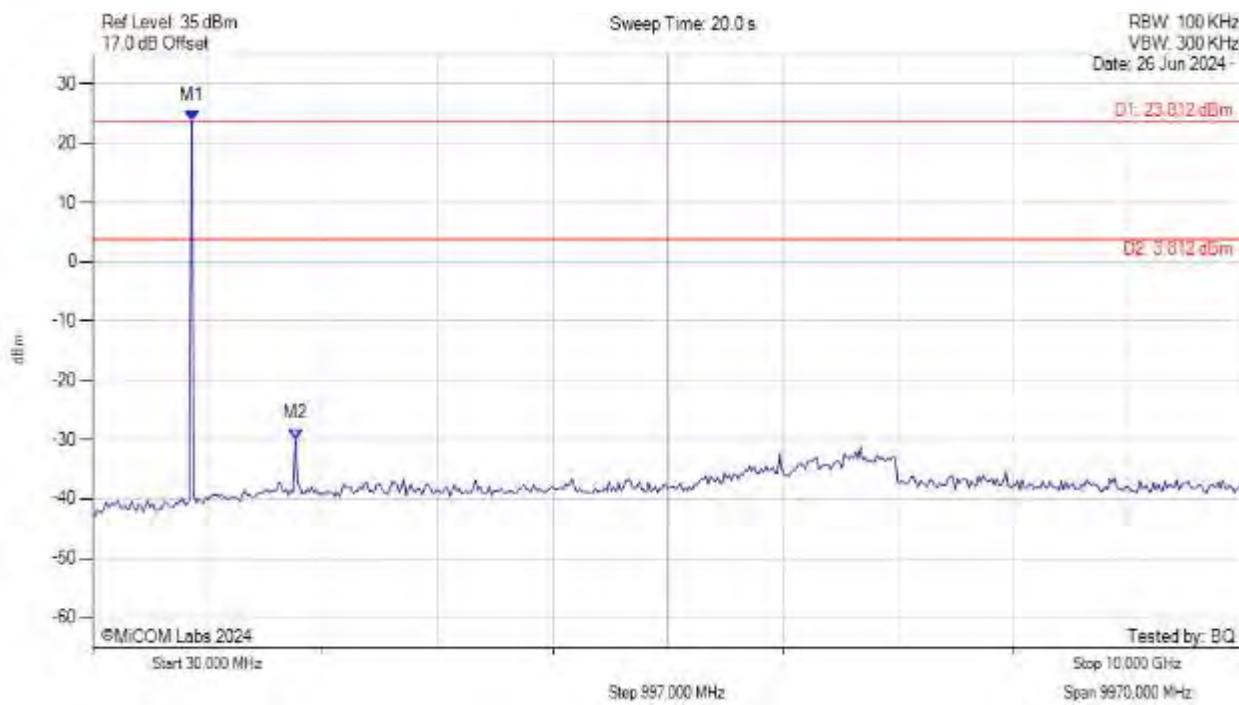
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 22.800 dBm M2 : 1848.176 MHz : -29.293 dBm	Limit: 2.80 dBm Margin: -32.09 dB

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UNWANTED EMISSIONS PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



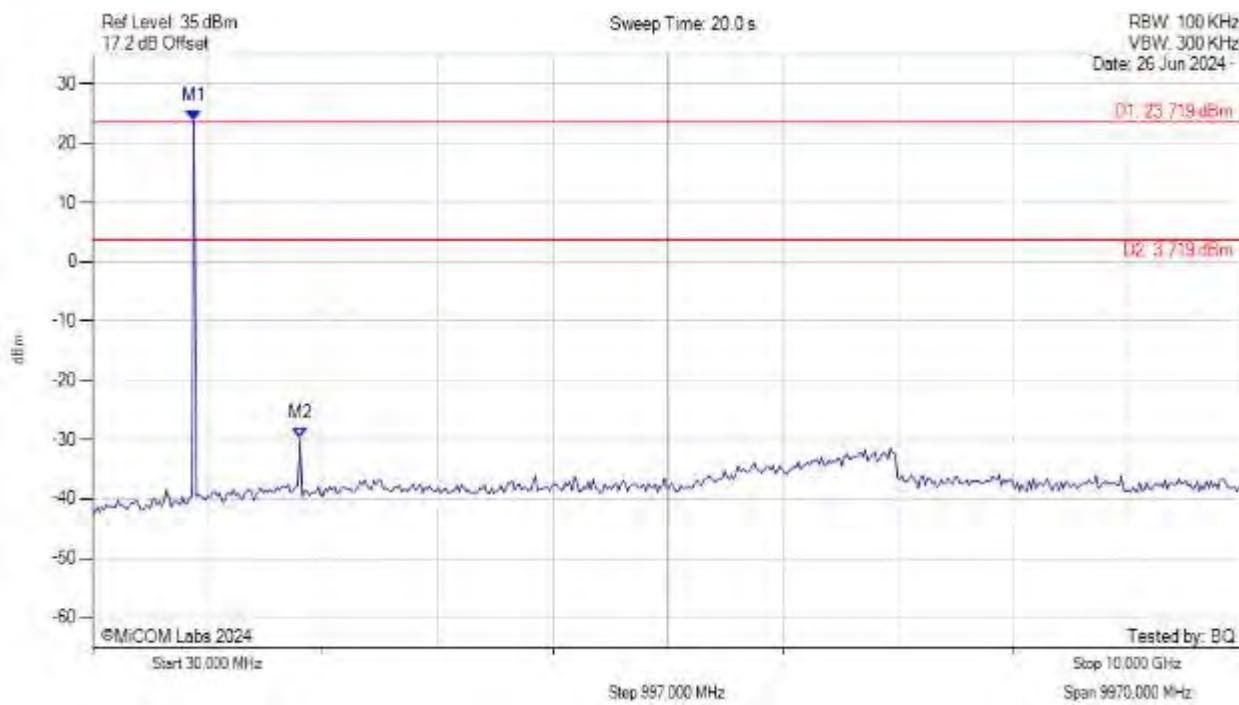
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 23.812 dBm M2 : 1788.236 MHz : -29.887 dBm	Limit: 3.81 dBm Margin: -33.70 dB

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UNWANTED EMISSIONS PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



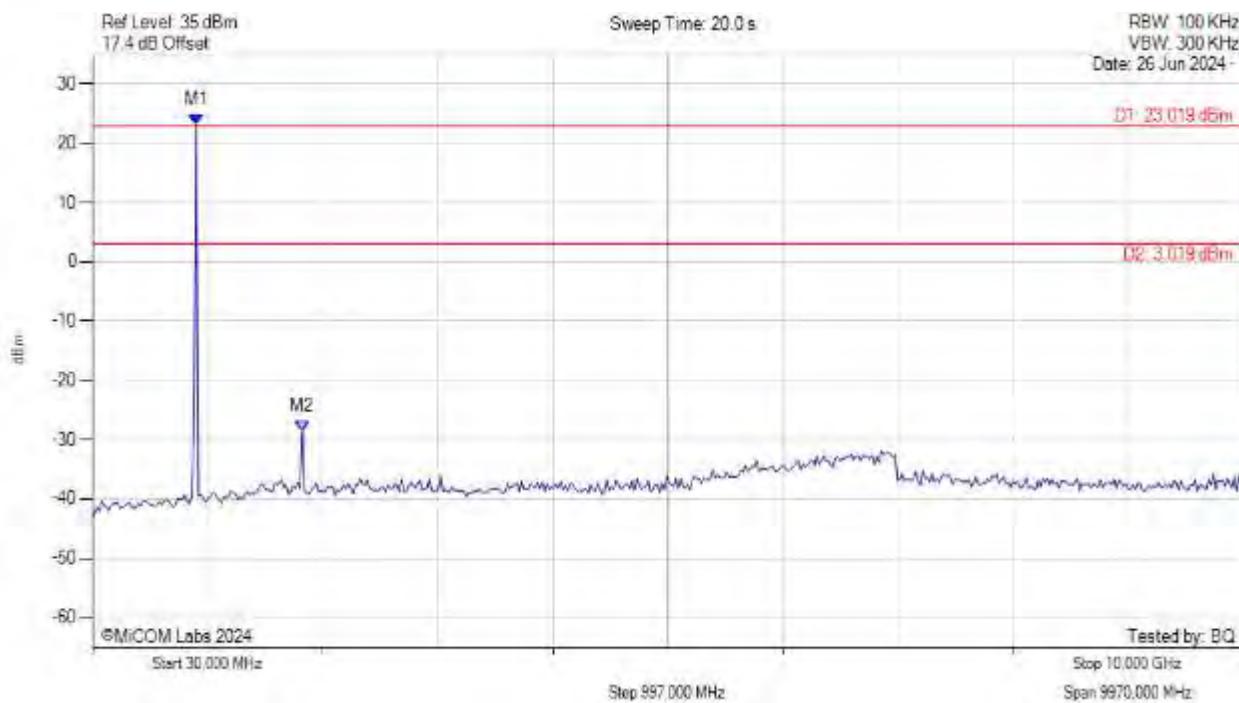
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.719 dBm M2 : 1828.196 MHz : -29.801 dBm	Limit: 3.72 dBm Margin: -33.52 dB

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UNWANTED EMISSIONS PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



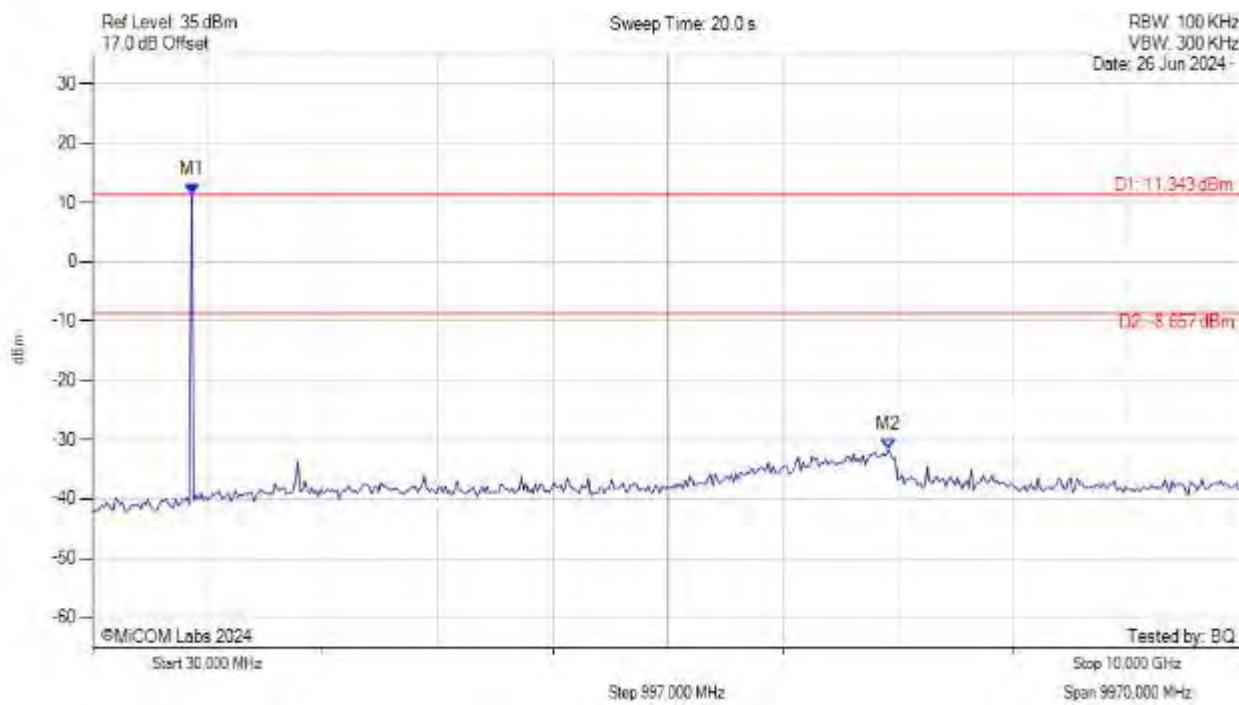
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 929.098 MHz : 23.019 dBm M2 : 1848.176 MHz : -28.607 dBm	Limit: 3.02 dBm Margin: -31.63 dB

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UNWANTED EMISSIONS PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



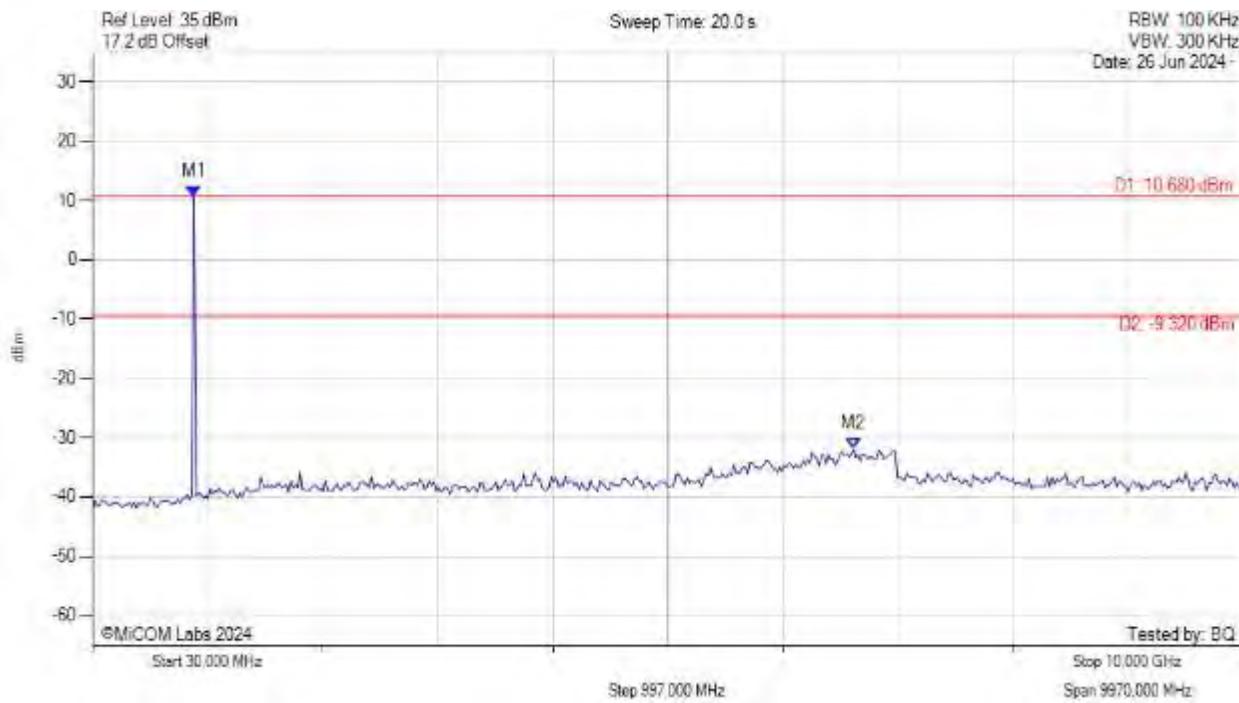
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 11.343 dBm M2 : 6923.086 MHz : -31.634 dBm	Limit: -8.66 dBm Margin: -22.97 dB

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UNWANTED EMISSIONS PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



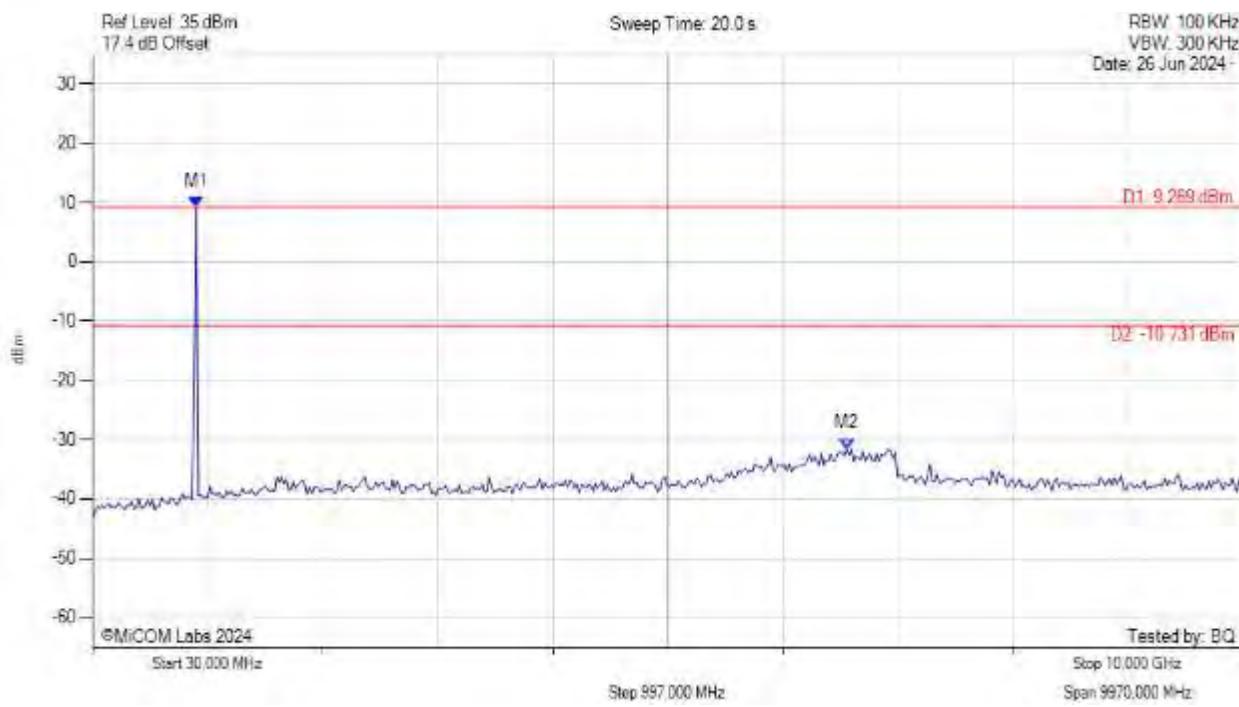
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 10.680 dBm M2 : 6623.387 MHz : -31.939 dBm	Limit: -9.32 dBm Margin: -22.62 dB

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UNWANTED EMISSIONS PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20



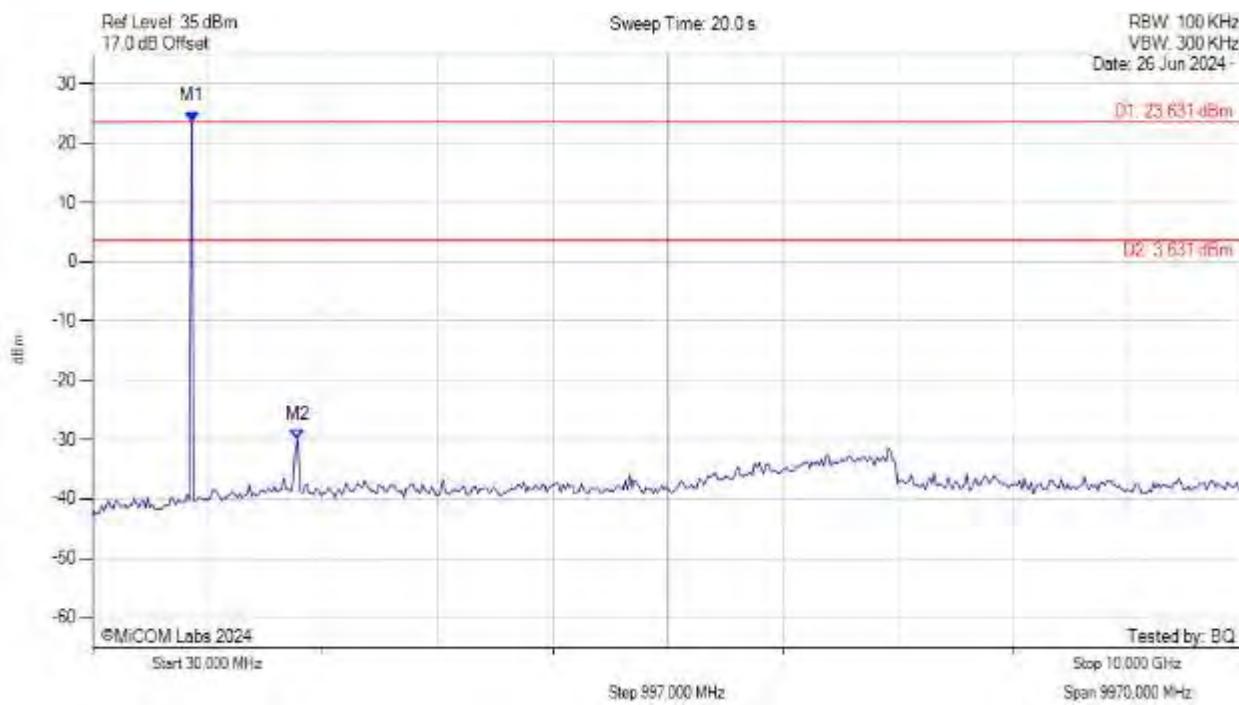
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 929.098 MHz : 9.269 dBm M2 : 6563.447 MHz : -31.508 dBm	Limit: -10.73 dBm Margin: -20.78 dB

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UNWANTED EMISSIONS PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



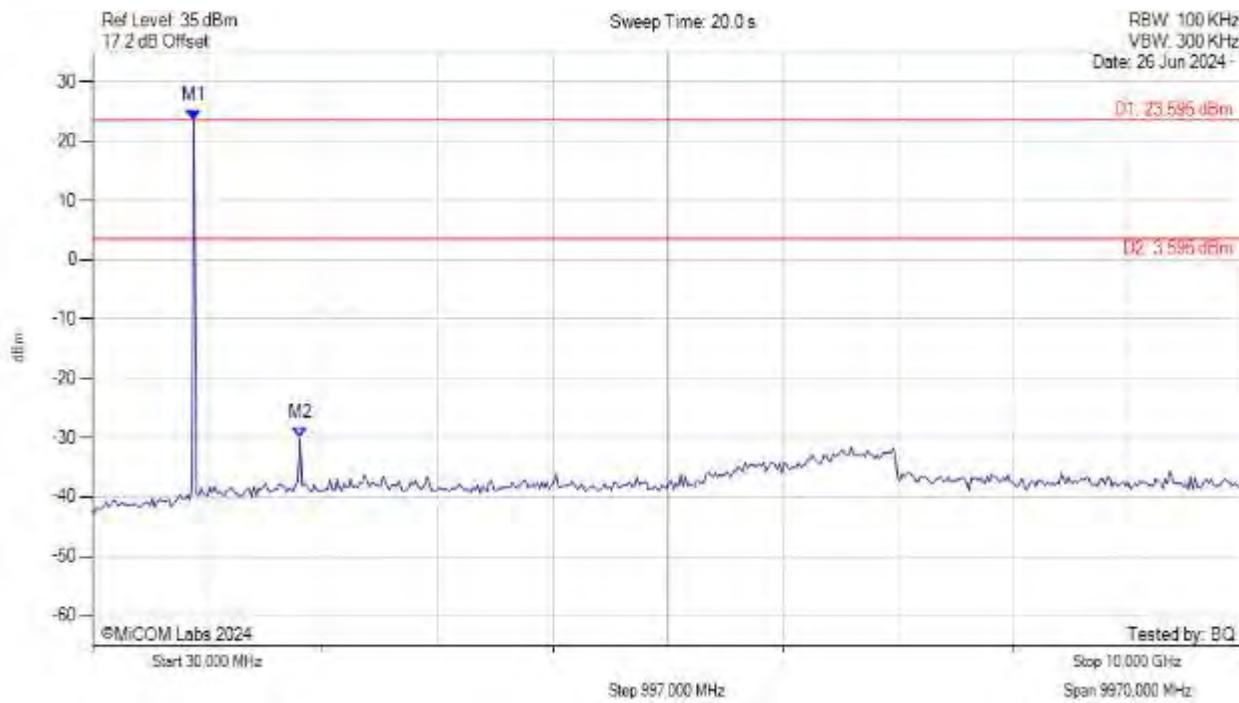
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 23.631 dBm M2 : 1808.216 MHz : -30.027 dBm	Limit: 3.63 dBm Margin: -33.66 dB

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UNWANTED EMISSIONS PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



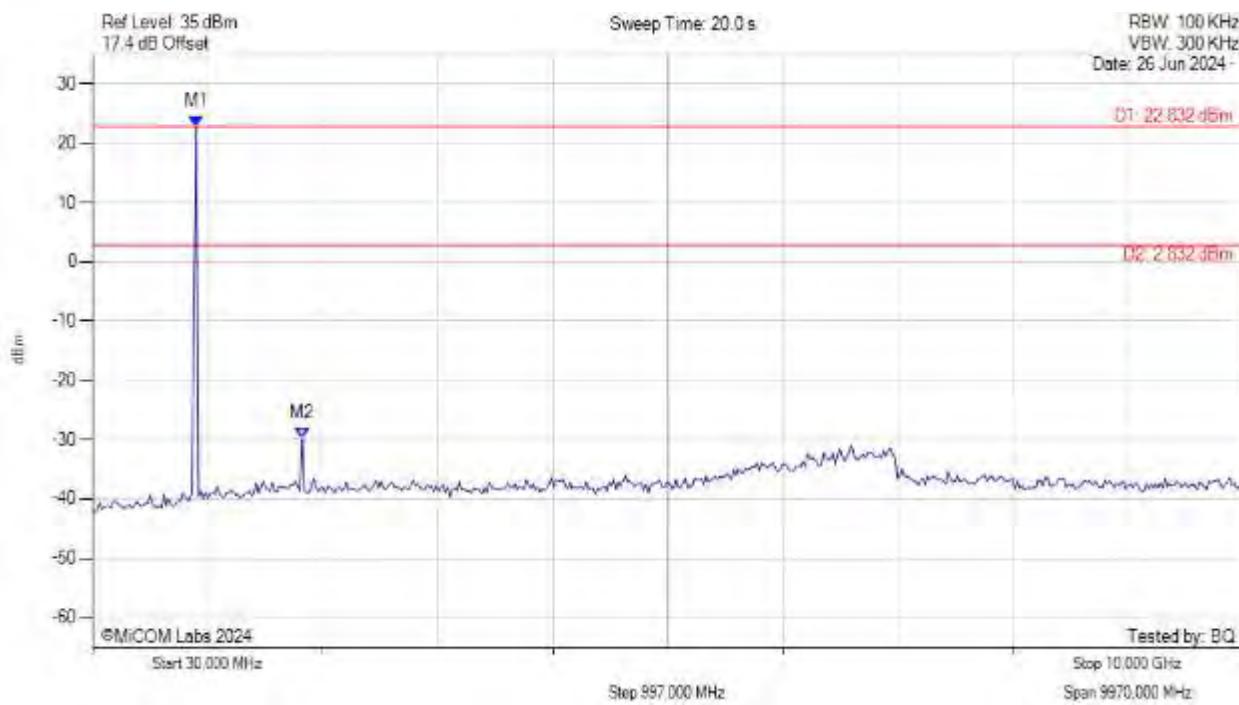
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.595 dBm M2 : 1828.196 MHz : -30.092 dBm	Limit: 3.60 dBm Margin: -33.69 dB

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UNWANTED EMISSIONS PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



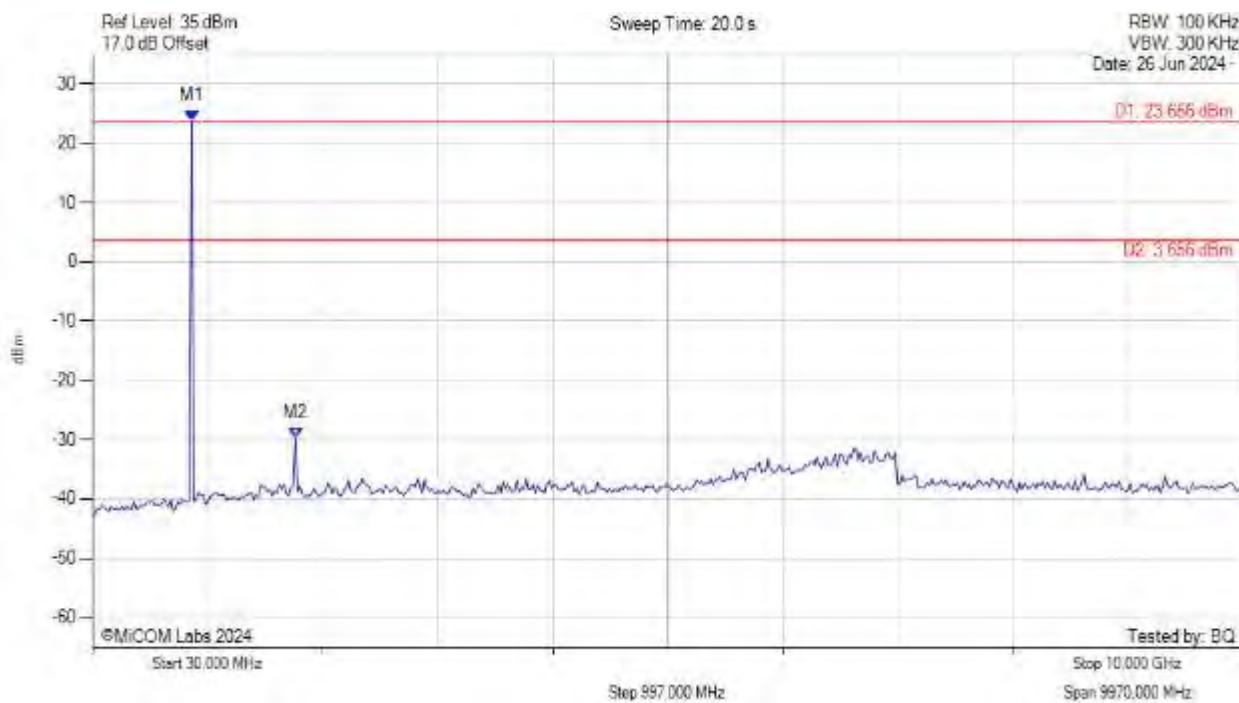
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 929.098 MHz : 22.832 dBm M2 : 1848.176 MHz : -29.824 dBm	Limit: 2.83 dBm Margin: -32.65 dB

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UNWANTED EMISSIONS PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



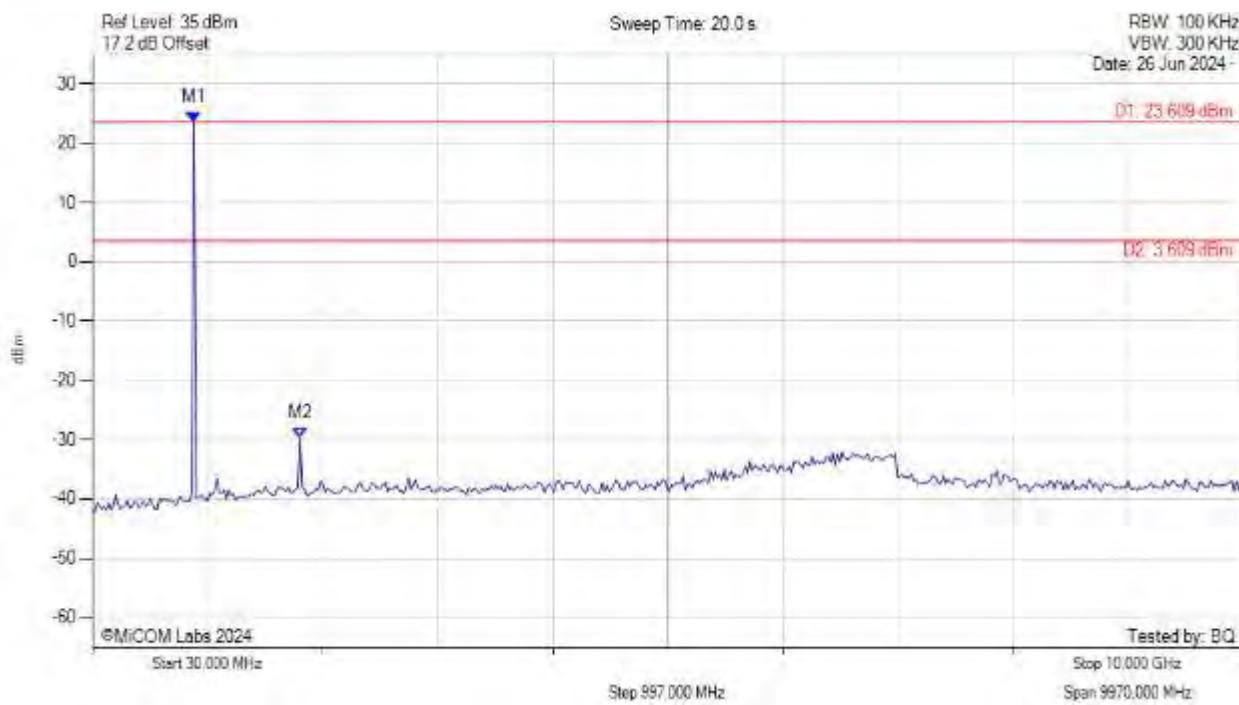
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 23.656 dBm M2 : 1788.236 MHz : -29.683 dBm	Limit: 3.66 dBm Margin: -33.34 dB

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UNWANTED EMISSIONS PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



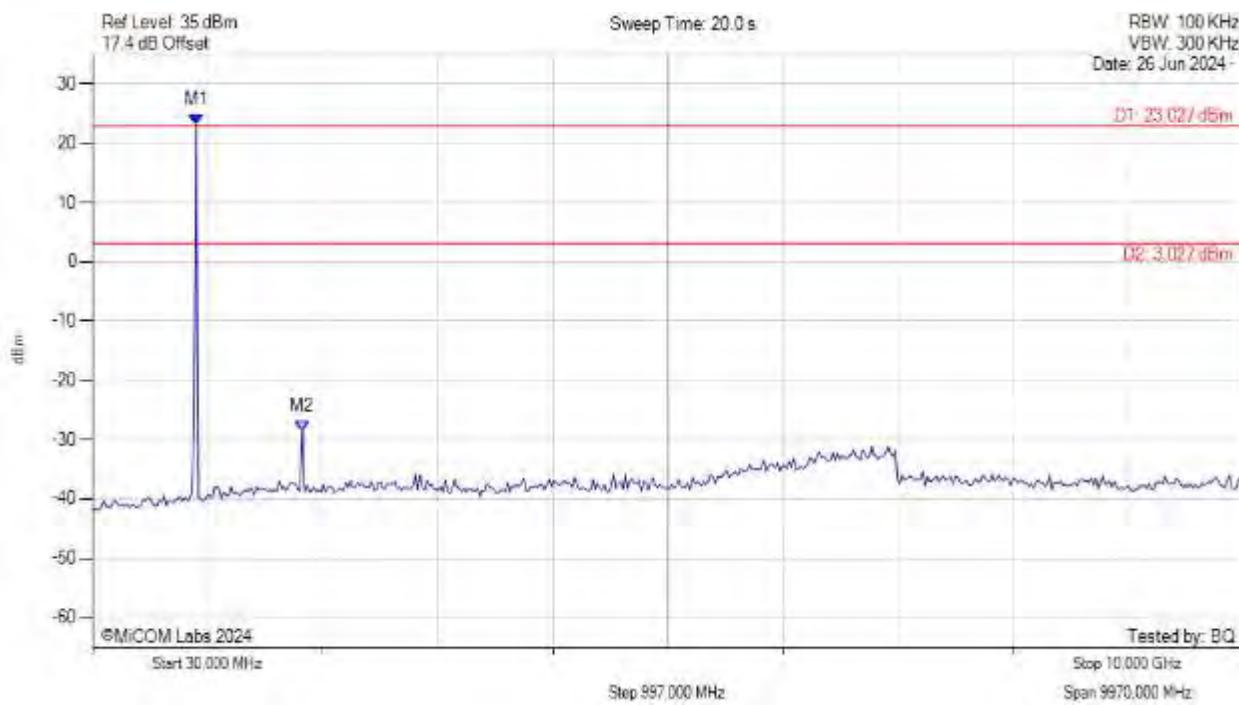
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.609 dBm M2 : 1828.196 MHz : -29.714 dBm	Limit: 3.61 dBm Margin: -33.32 dB

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UNWANTED EMISSIONS PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



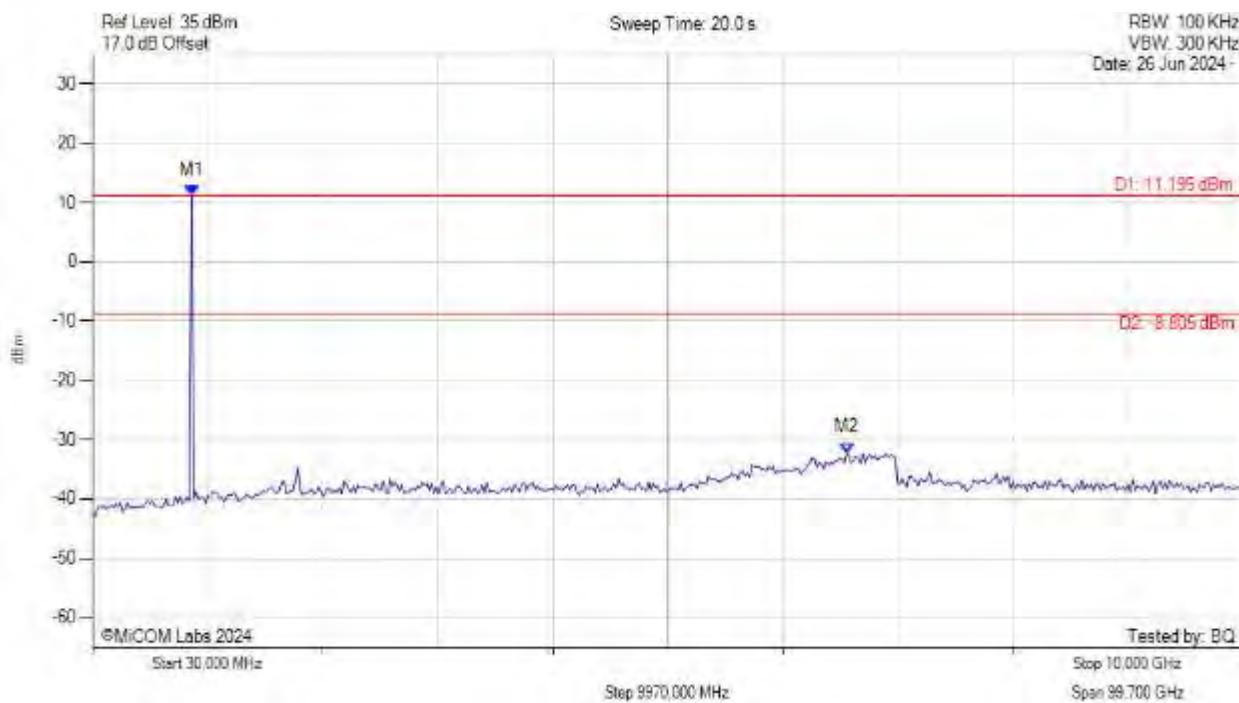
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 929.098 MHz : 23.027 dBm M2 : 1848.176 MHz : -28.536 dBm	Limit: 3.03 dBm Margin: -31.57 dB

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UNWANTED EMISSIONS PEAK



Variant: 300kbps PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



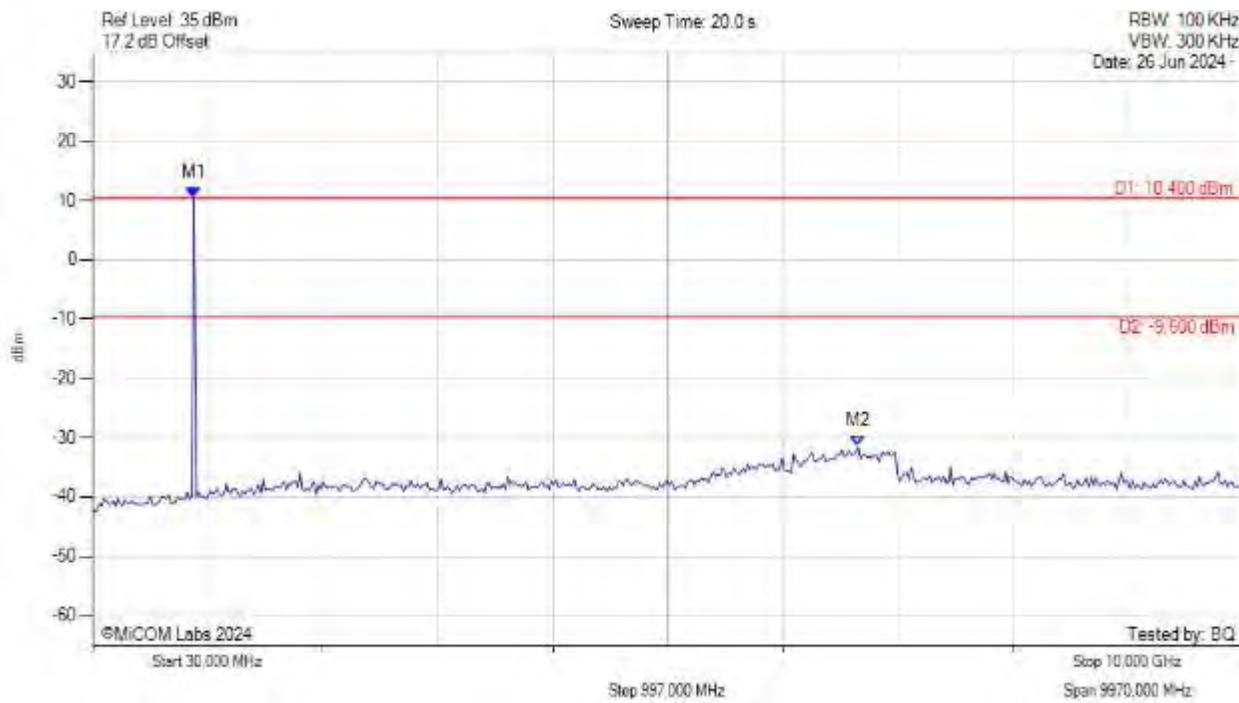
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 11.195 dBm M2 : 6563.447 MHz : -32.232 dBm	Limit: -8.81 dBm Margin: -23.42 dB

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UNWANTED EMISSIONS PEAK



Variant: 300kbps PL 2 (Hybrid), Channel: 915.20 MHz, Chain a, Temp: 20



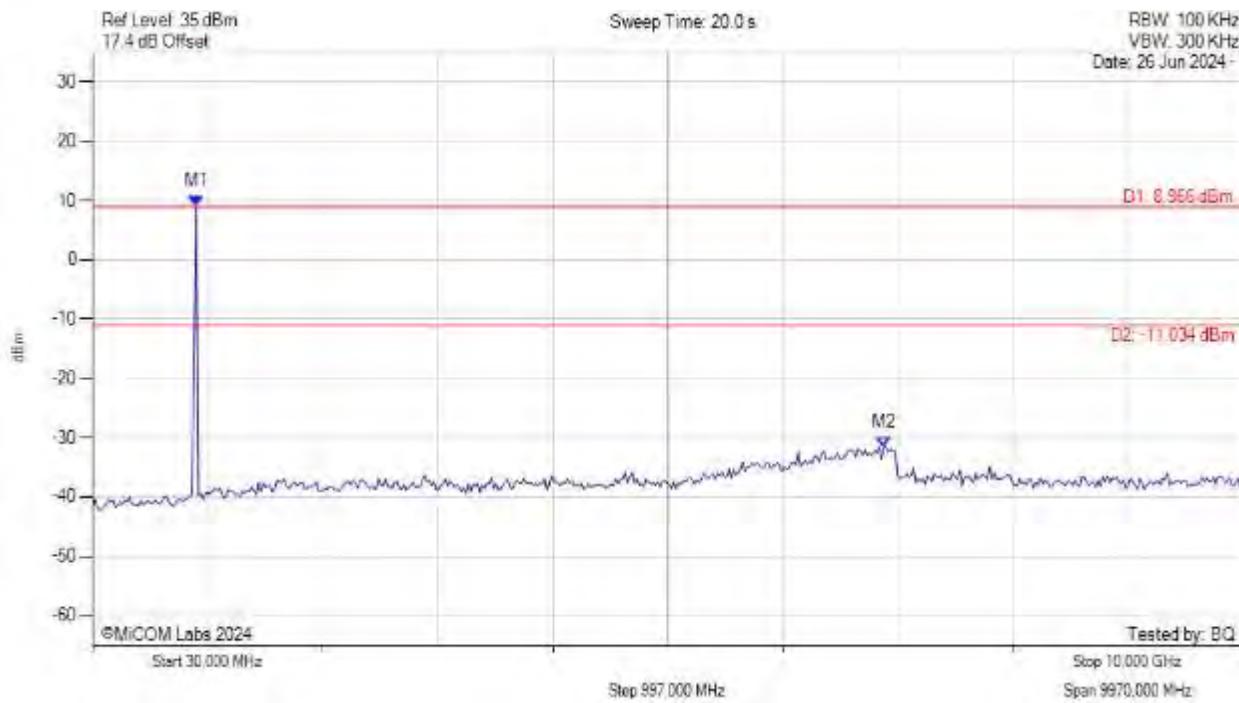
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 10.400 dBm M2 : 6663.347 MHz : -31.485 dBm	Limit: -9.60 dBm Margin: -21.88 dB

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UNWANTED EMISSIONS PEAK



Variant: 300kbps PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20



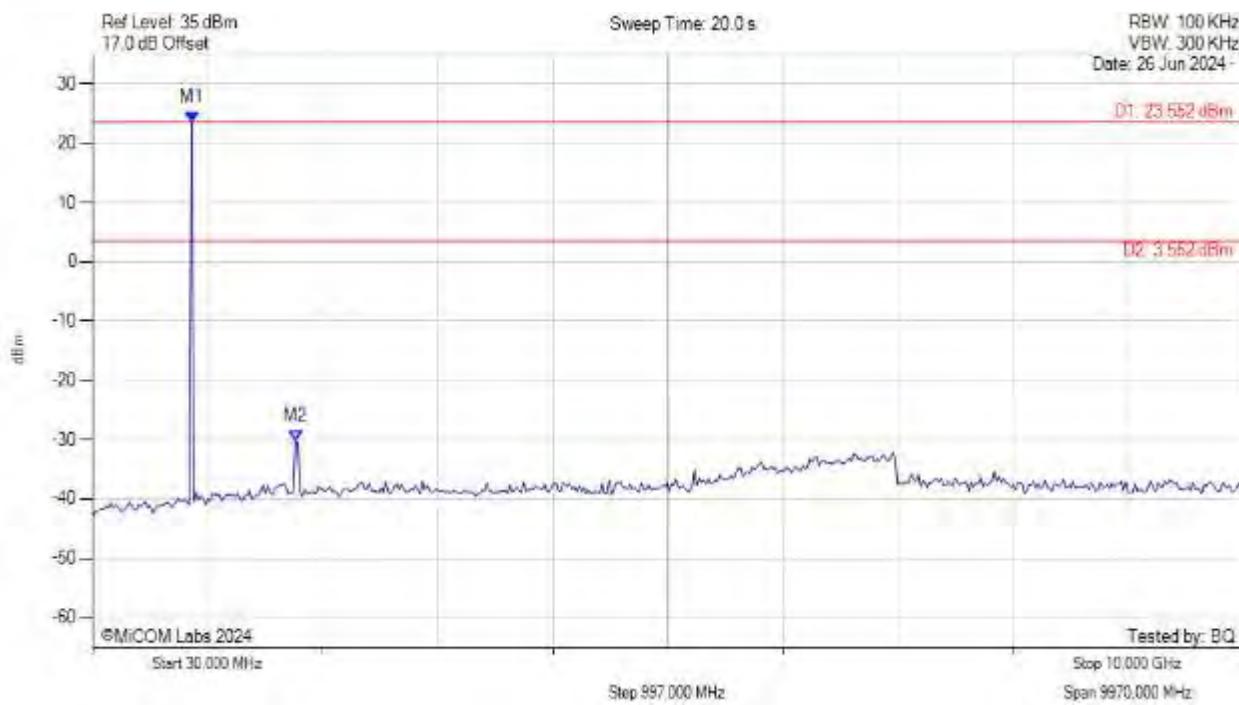
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 929.098 MHz : 8.966 dBm M2 : 6883.126 MHz : -31.589 dBm	Limit: -11.03 dBm Margin: -20.56 dB

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UNWANTED EMISSIONS PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



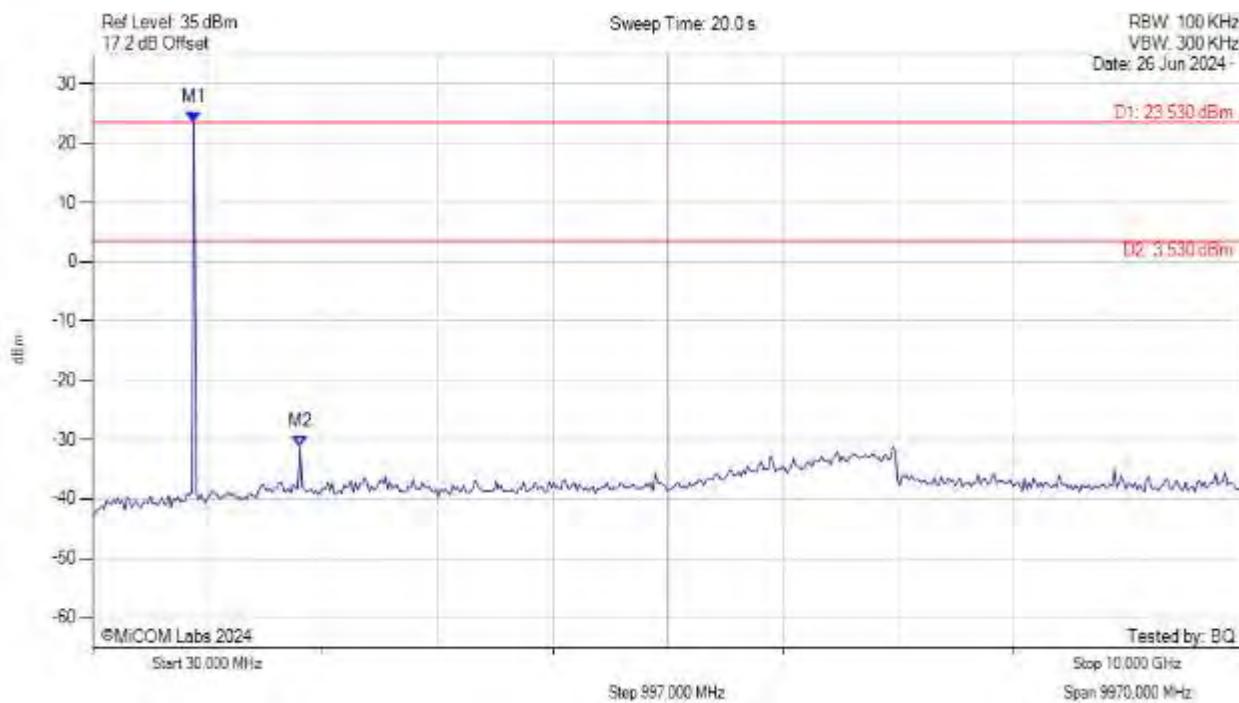
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 23.552 dBm M2 : 1788.236 MHz : -30.194 dBm	Limit: 3.55 dBm Margin: -33.74 dB

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UNWANTED EMISSIONS PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 915.20 MHz, Chain a, Temp: 20



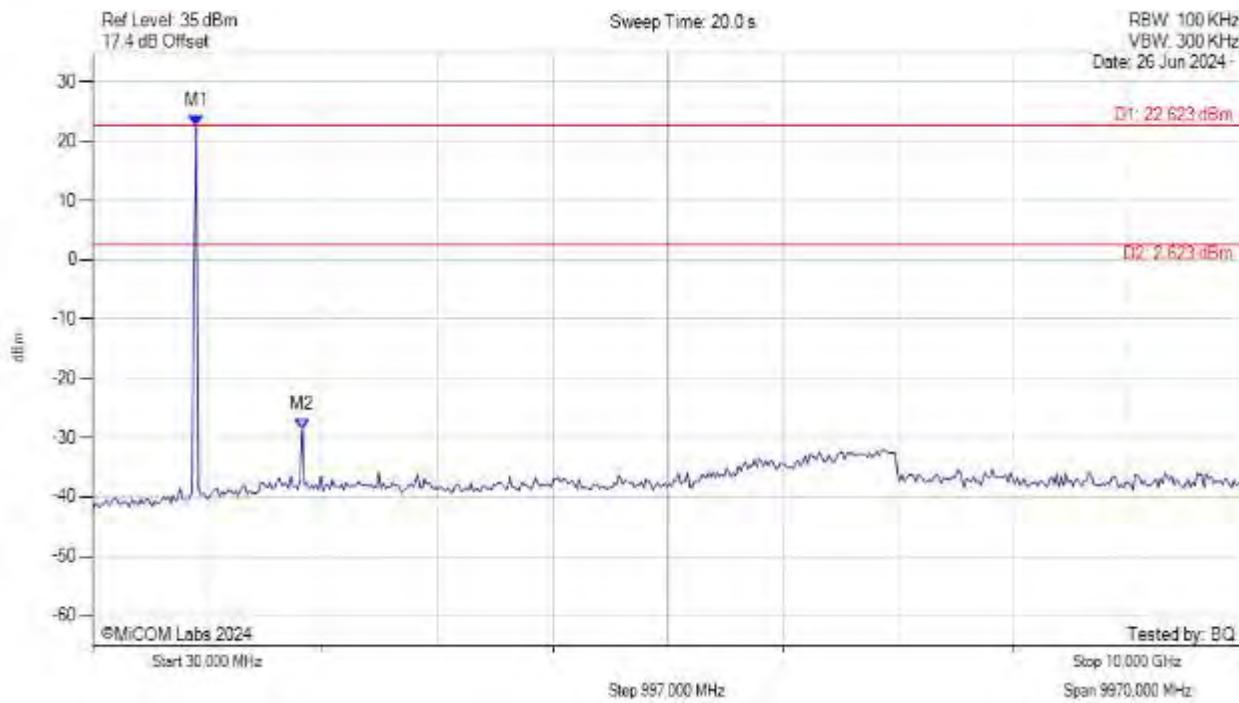
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.530 dBm M2 : 1828.196 MHz : -31.182 dBm	Limit: 3.53 dBm Margin: -34.71 dB

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UNWANTED EMISSIONS PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



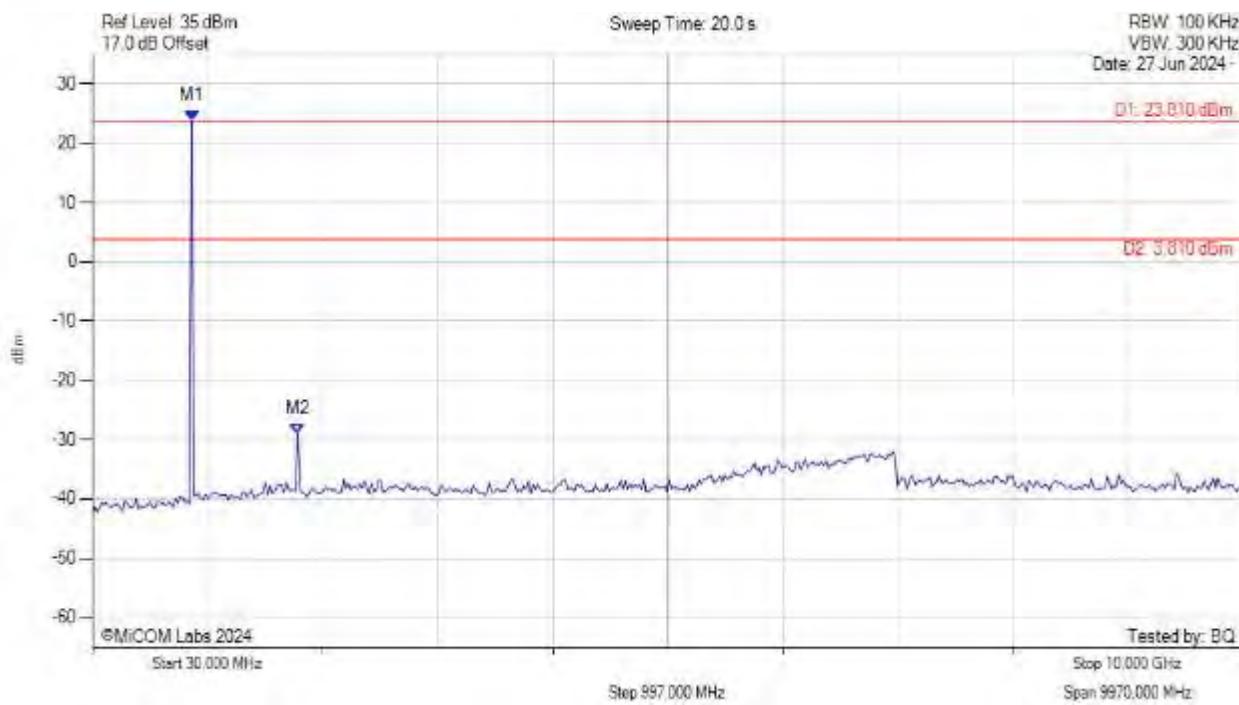
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 929.098 MHz : 22.623 dBm M2 : 1848.176 MHz : -28.626 dBm	Limit: 2.62 dBm Margin: -31.25 dB

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UNWANTED EMISSIONS PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 903.00 MHz, Chain a, Temp: 20



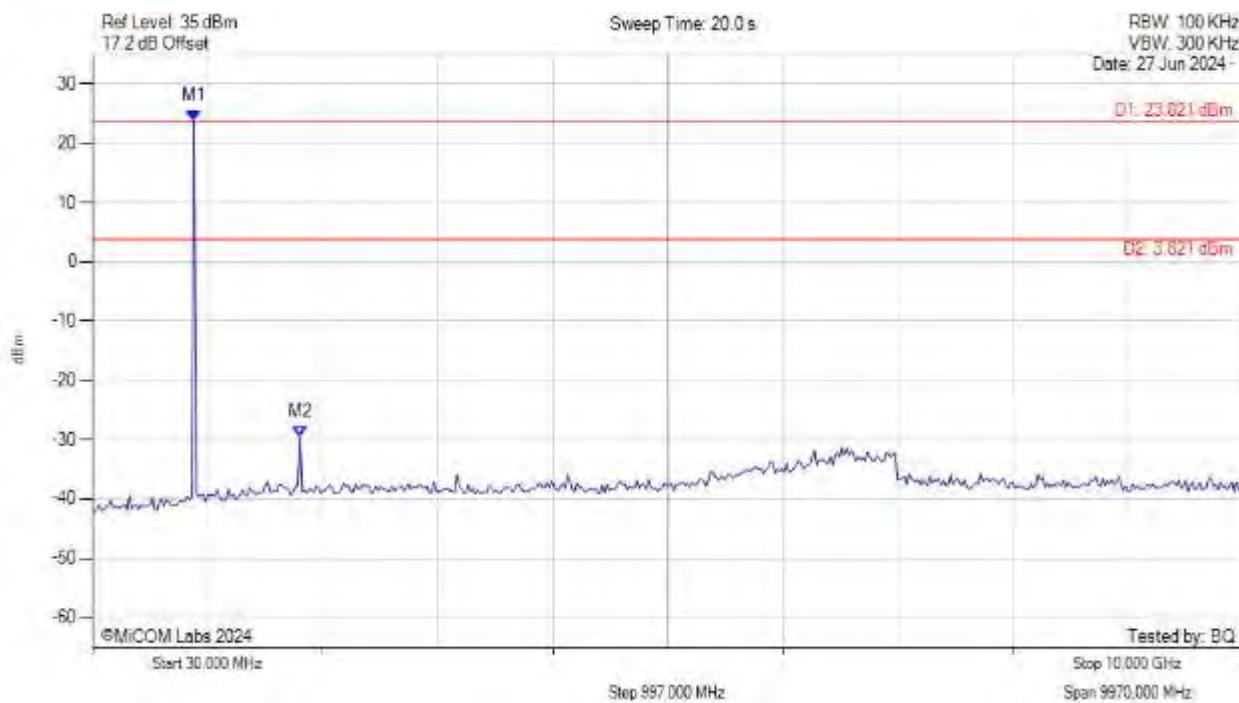
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 23.810 dBm M2 : 1808.216 MHz : -29.000 dBm	Limit: 3.81 dBm Margin: -32.81 dB

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UNWANTED EMISSIONS PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 915.00 MHz, Chain a, Temp: 20



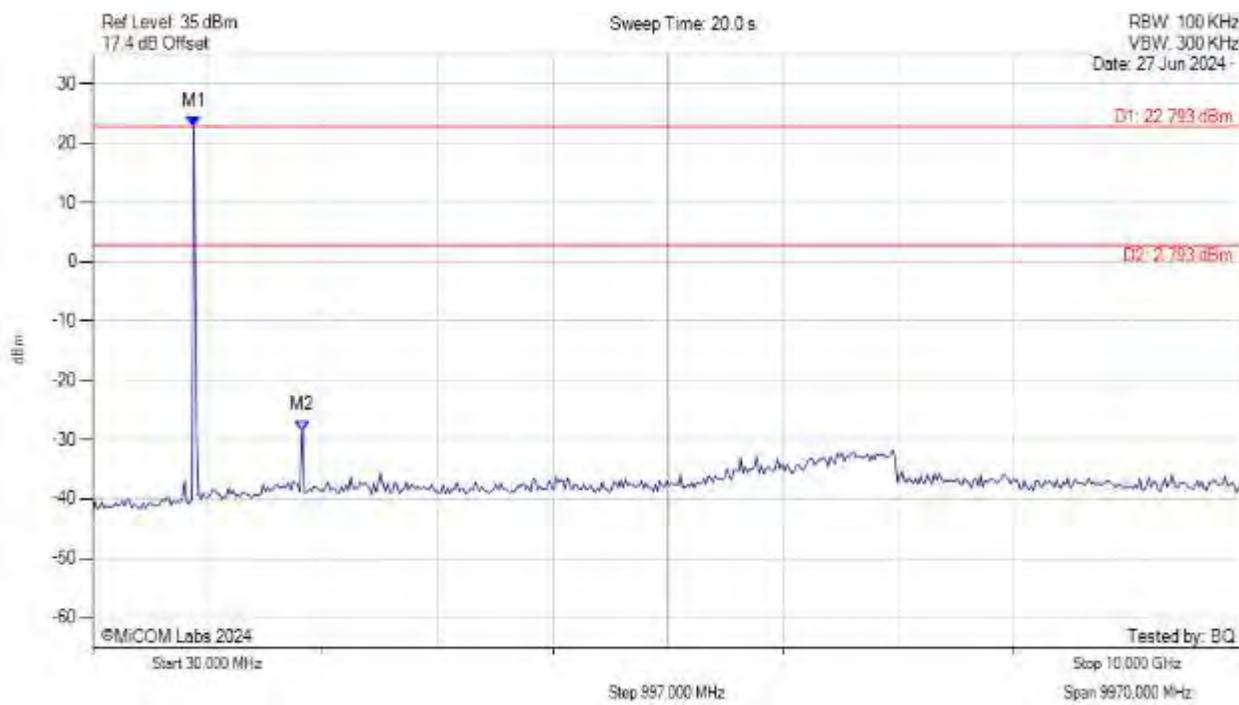
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.821 dBm M2 : 1828.196 MHz : -29.500 dBm	Limit: 3.82 dBm Margin: -33.32 dB

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UNWANTED EMISSIONS PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 926.80 MHz, Chain a, Temp: 20



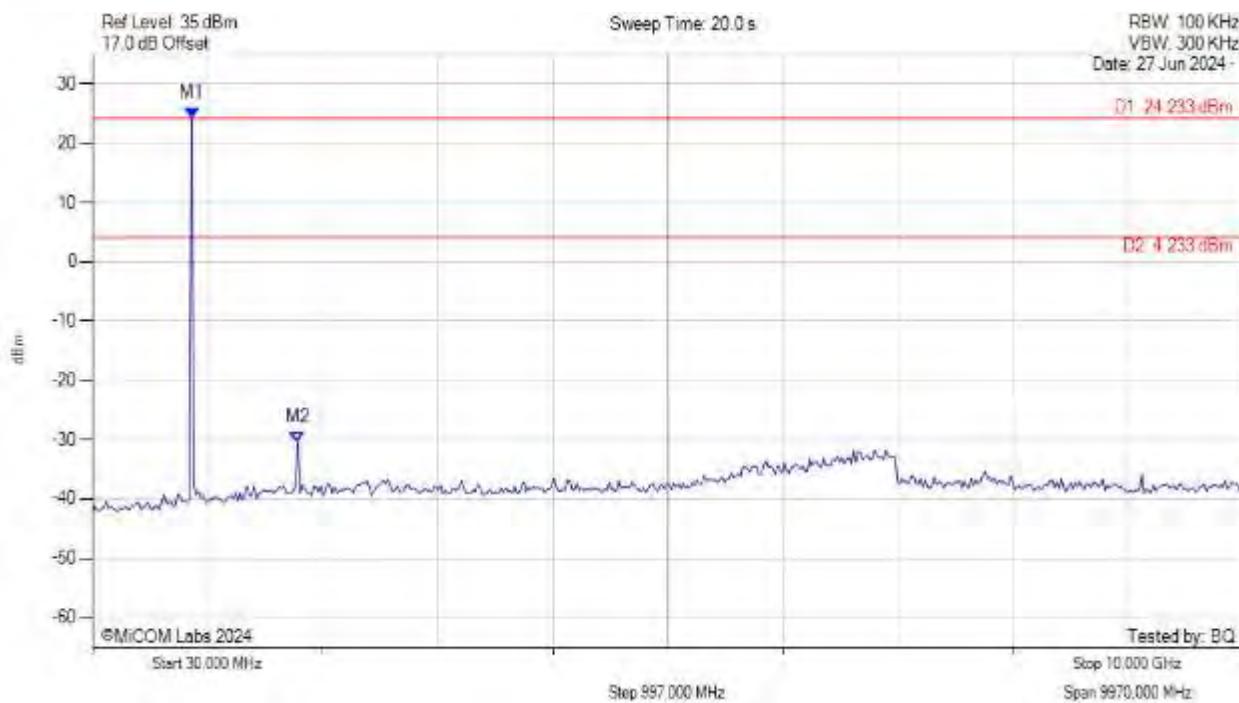
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 22.793 dBm M2 : 1848.176 MHz : -28.469 dBm	Limit: 2.79 dBm Margin: -31.26 dB

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UNWANTED EMISSIONS PEAK



Variant: OOK PL 3, Channel: 903.00 MHz, Chain a, Temp: 20



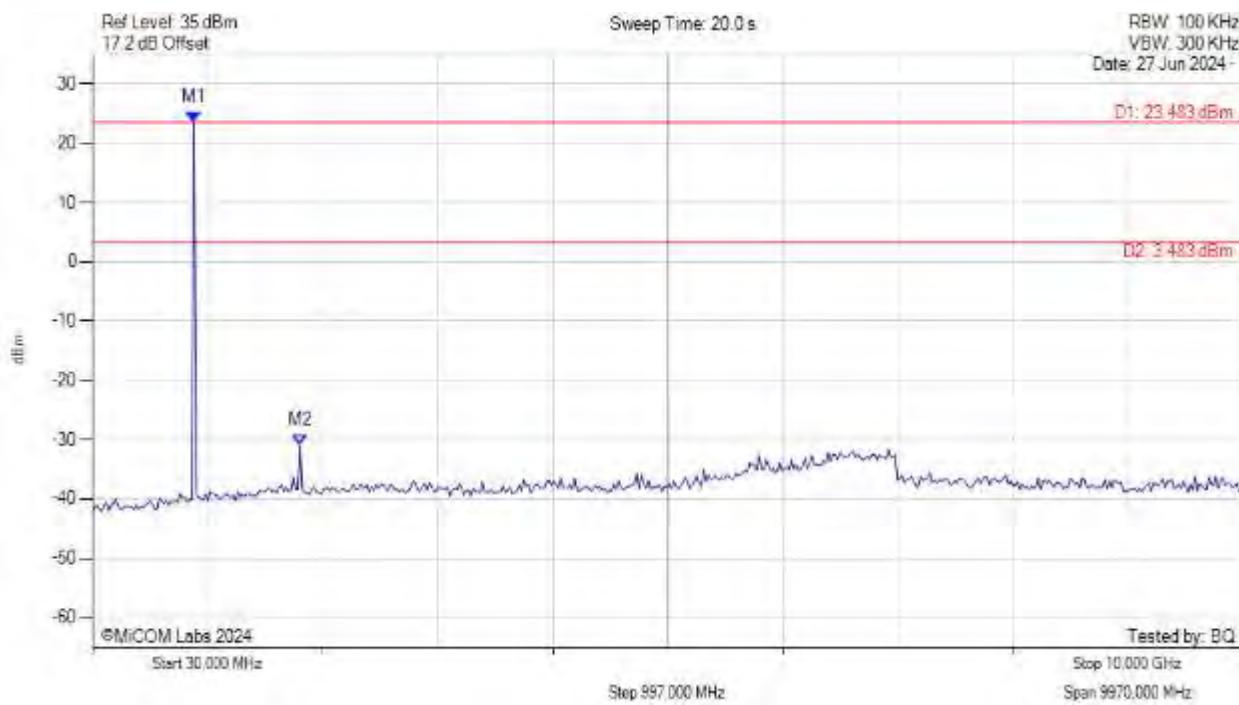
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 24.233 dBm M2 : 1808.216 MHz : -30.525 dBm	Limit: 4.23 dBm Margin: -34.75 dB

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UNWANTED EMISSIONS PEAK



Variant: OOK PL 3, Channel: 915.00 MHz, Chain a, Temp: 20



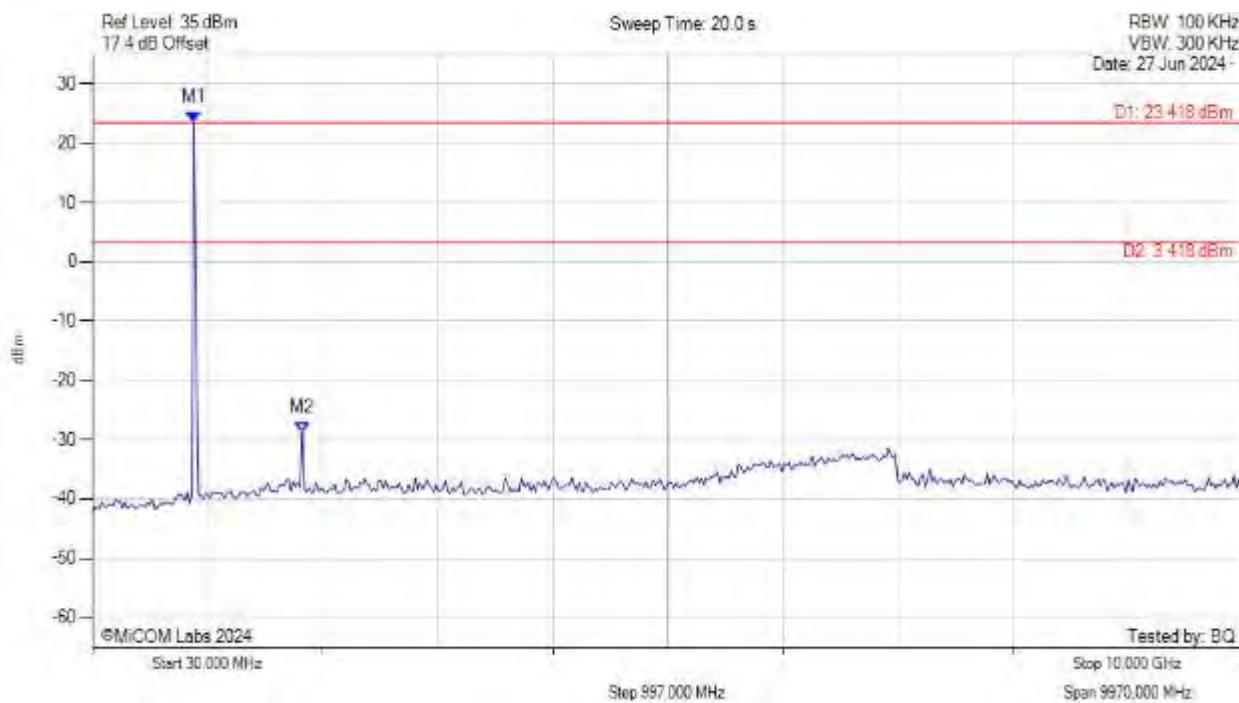
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.483 dBm M2 : 1828.196 MHz : -30.963 dBm	Limit: 3.48 dBm Margin: -34.44 dB

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UNWANTED EMISSIONS PEAK



Variant: OOK PL 3, Channel: 926.80 MHz, Chain a, Temp: 20



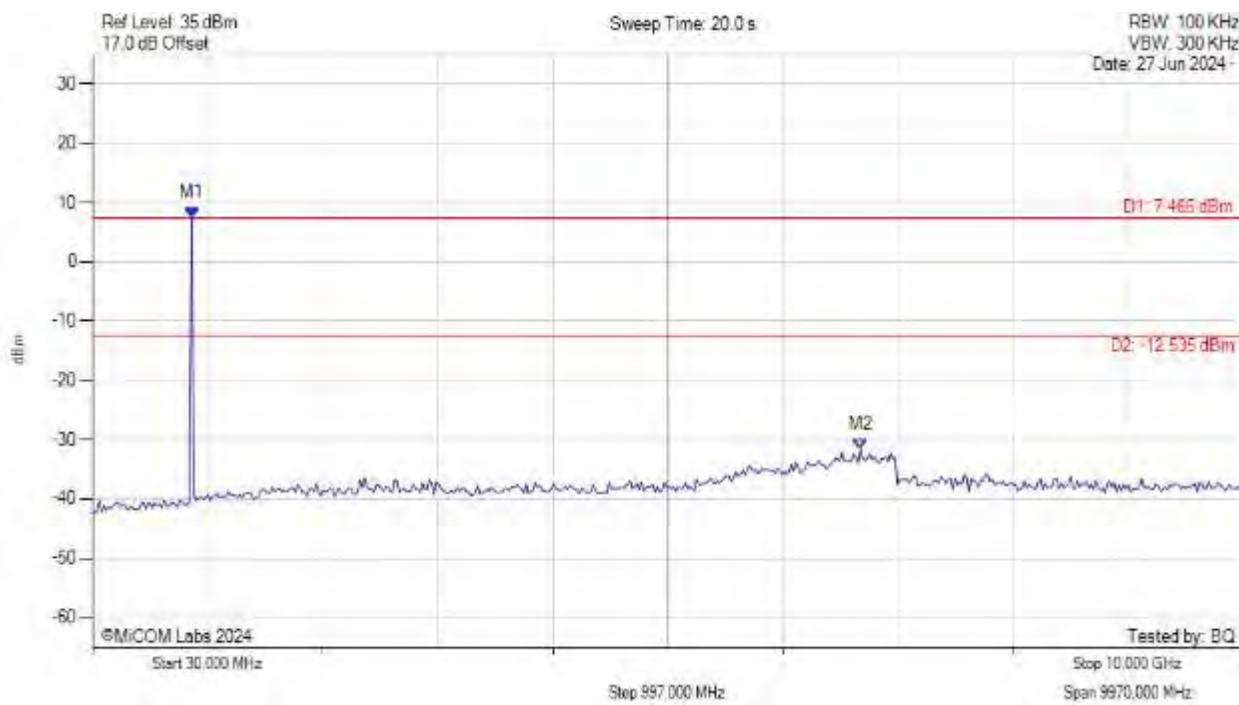
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 23.418 dBm M2 : 1848.176 MHz : -28.742 dBm	Limit: 3.42 dBm Margin: -32.16 dB

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UNWANTED EMISSIONS PEAK



Variant: OOK PL1, Channel: 903.00 MHz, Chain a, Temp: 20



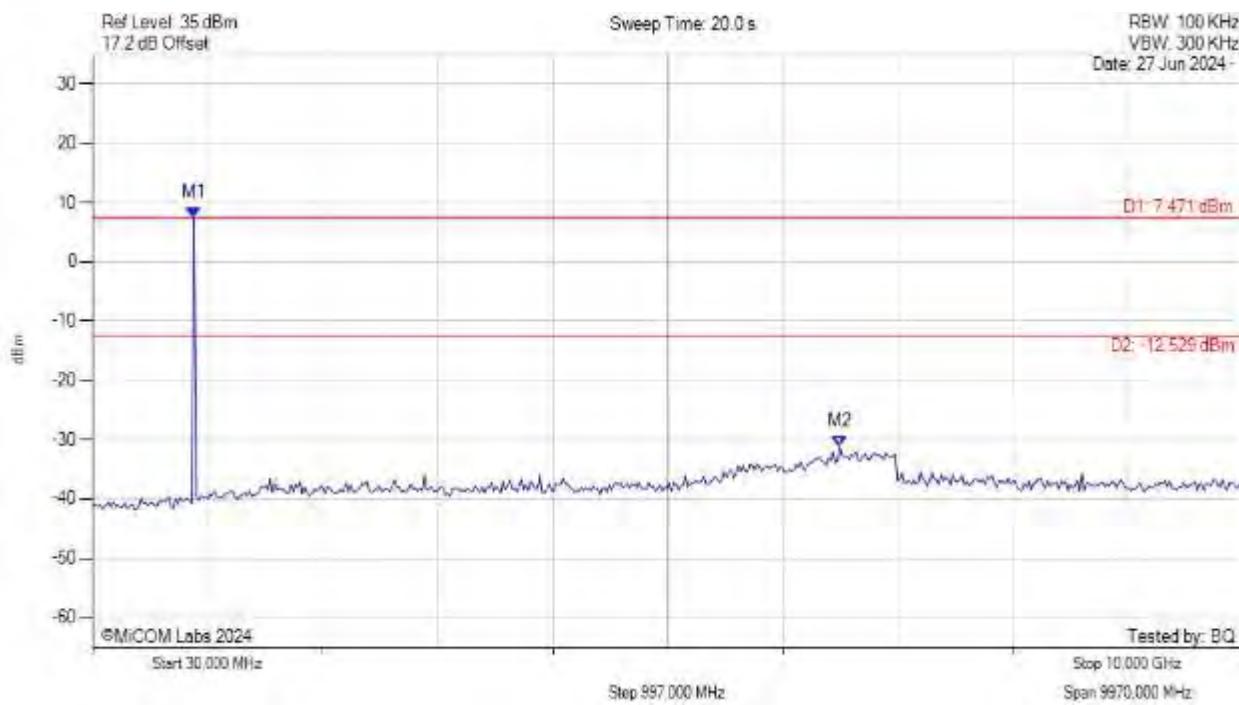
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 889.138 MHz : 7.465 dBm M2 : 6683.327 MHz : -31.636 dBm	Limit: -12.54 dBm Margin: -19.10 dB

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UNWANTED EMISSIONS PEAK



Variant: OOK PL1, Channel: 915.00 MHz, Chain a, Temp: 20



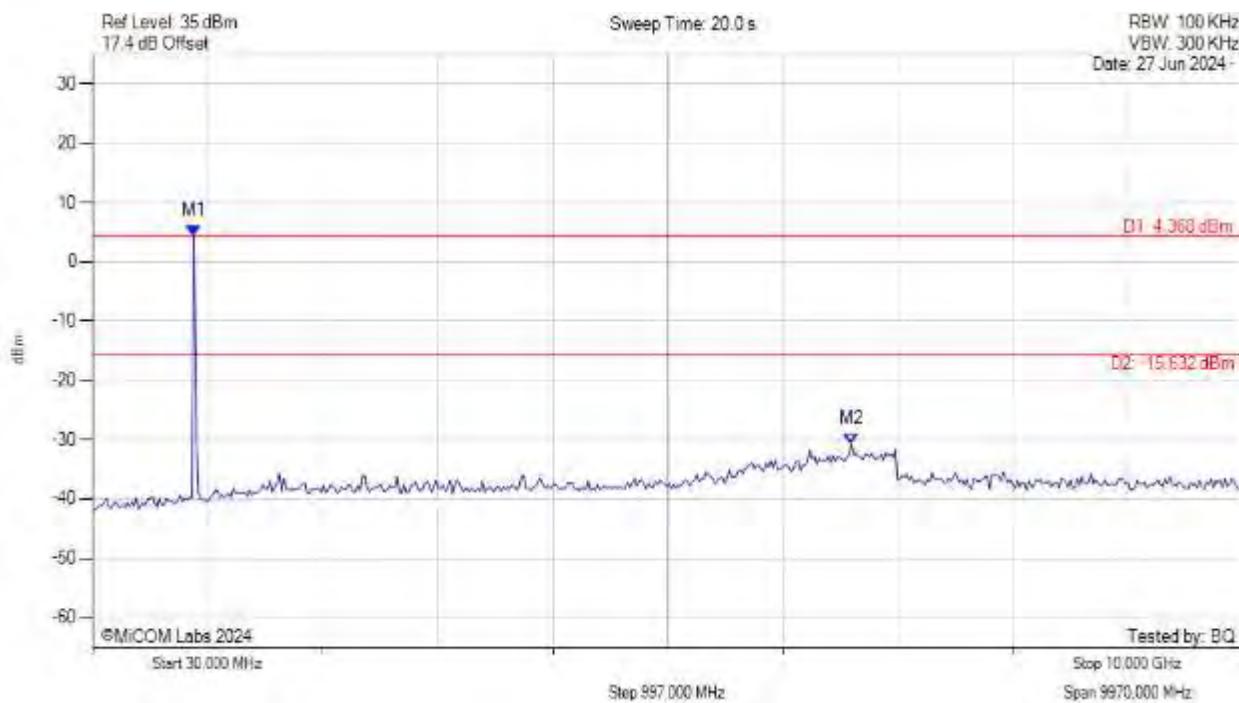
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 7.471 dBm M2 : 6503.507 MHz : -31.144 dBm	Limit: -12.53 dBm Margin: -18.61 dB

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UNWANTED EMISSIONS PEAK



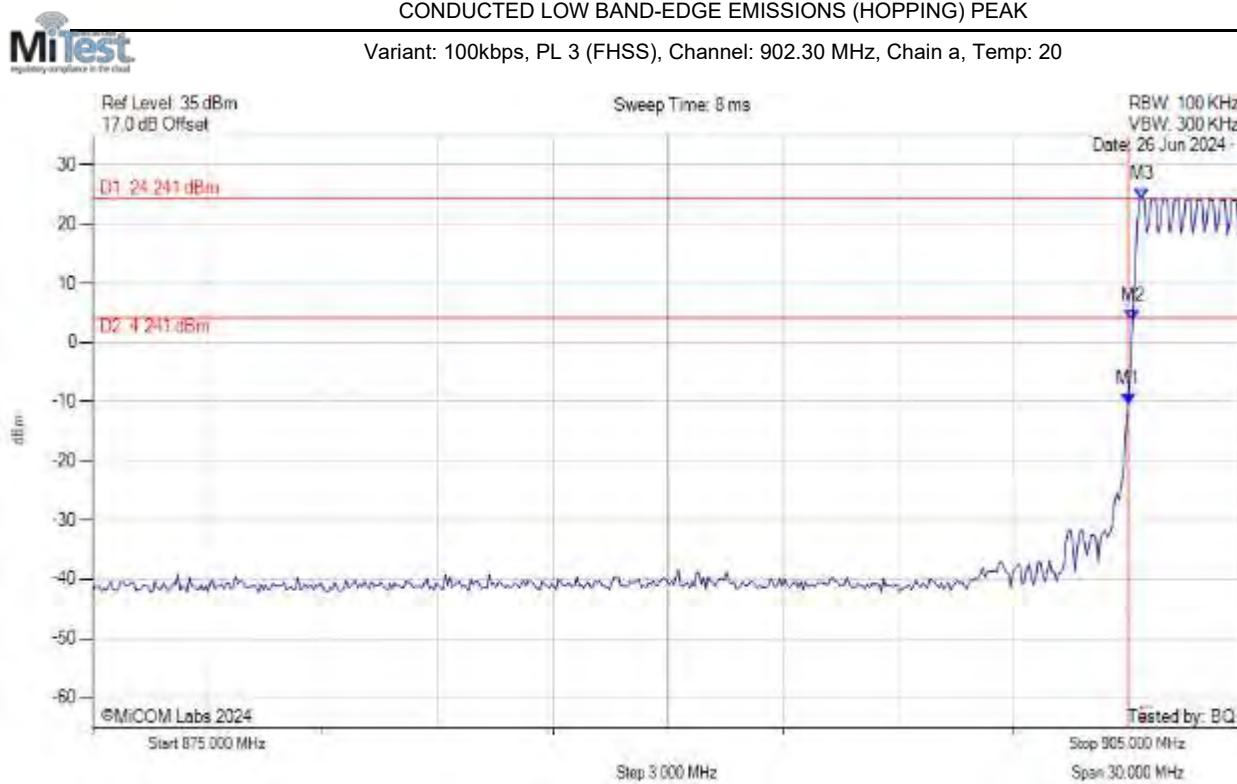
Variant: OOK PL1, Channel: 926.80 MHz, Chain a, Temp: 20



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 909.118 MHz : 4.368 dBm M2 : 6603.407 MHz : -30.725 dBm	Limit: -15.63 dBm Margin: -15.10 dB

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#### A.4.1.2. Conducted Band-Edge Emissions



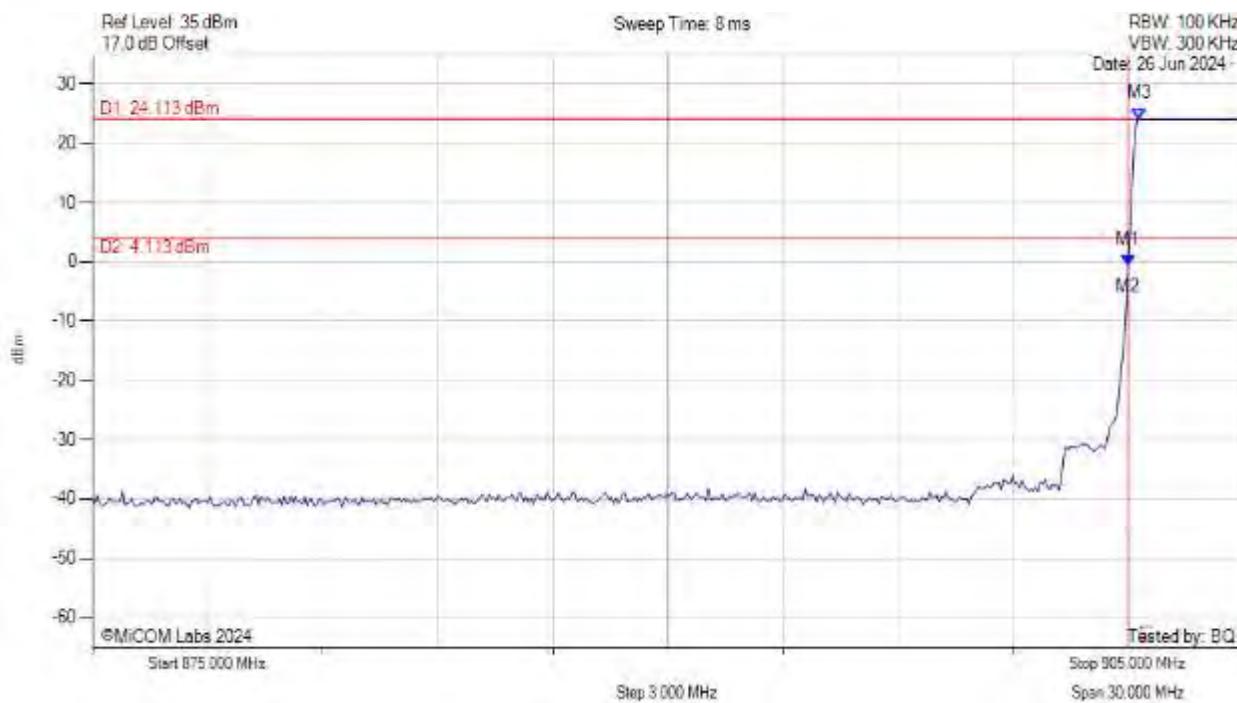
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -10.351 dBm M2 : 902.114 MHz : 3.556 dBm M3 : 902.355 MHz : 24.241 dBm	Channel Frequency: 902.30 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



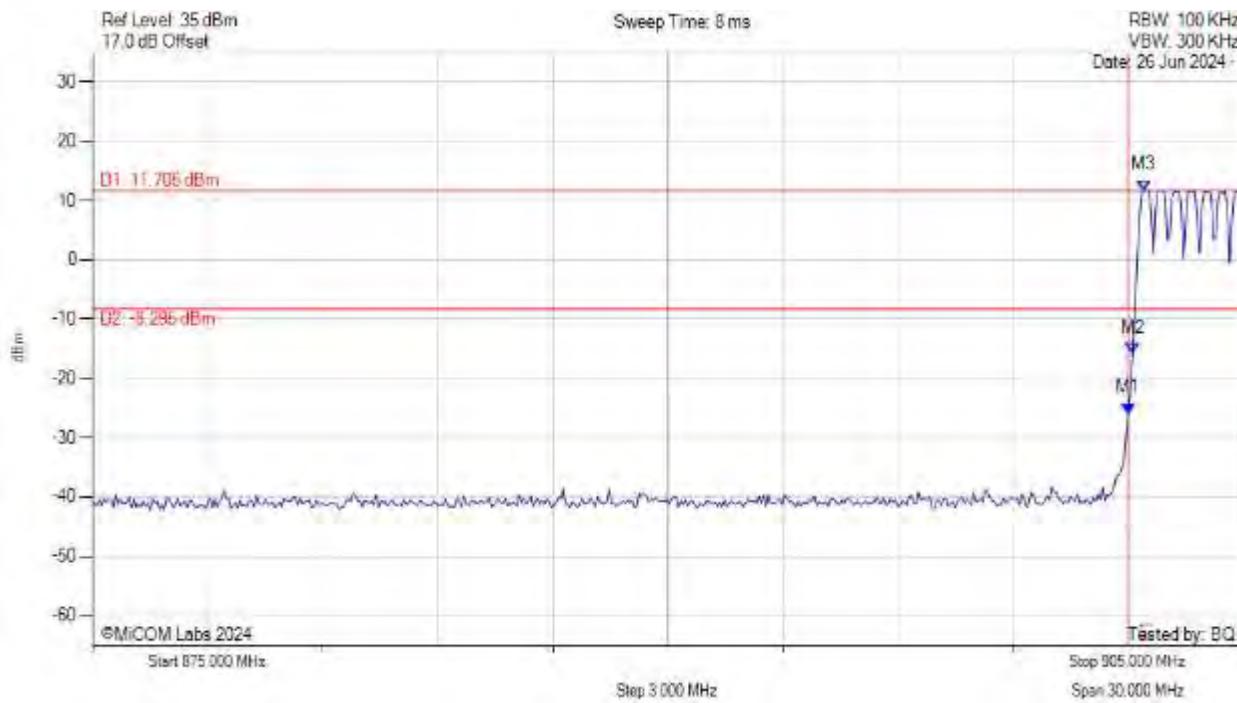
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -0.562 dBm M2 : 901.994 MHz : -0.562 dBm M3 : 902.295 MHz : 24.113 dBm	Channel Frequency: 902.20 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



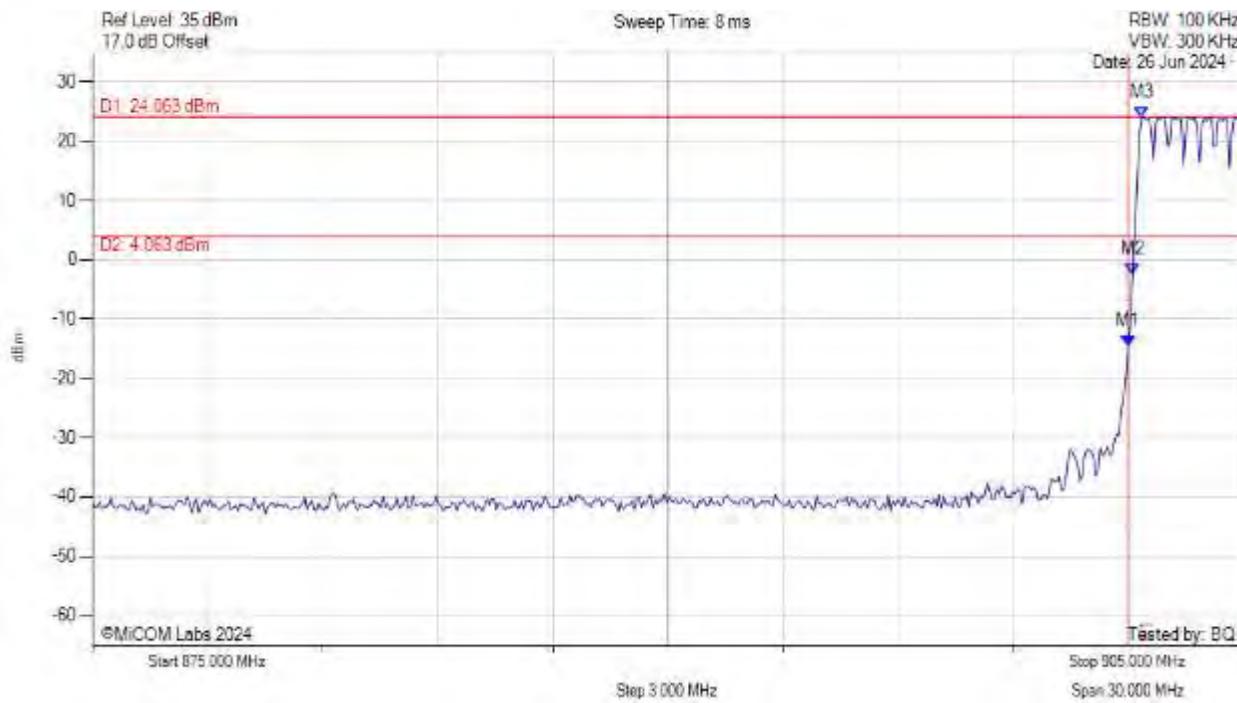
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -25.921 dBm M2 : 902.114 MHz : -15.831 dBm M3 : 902.415 MHz : 11.705 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



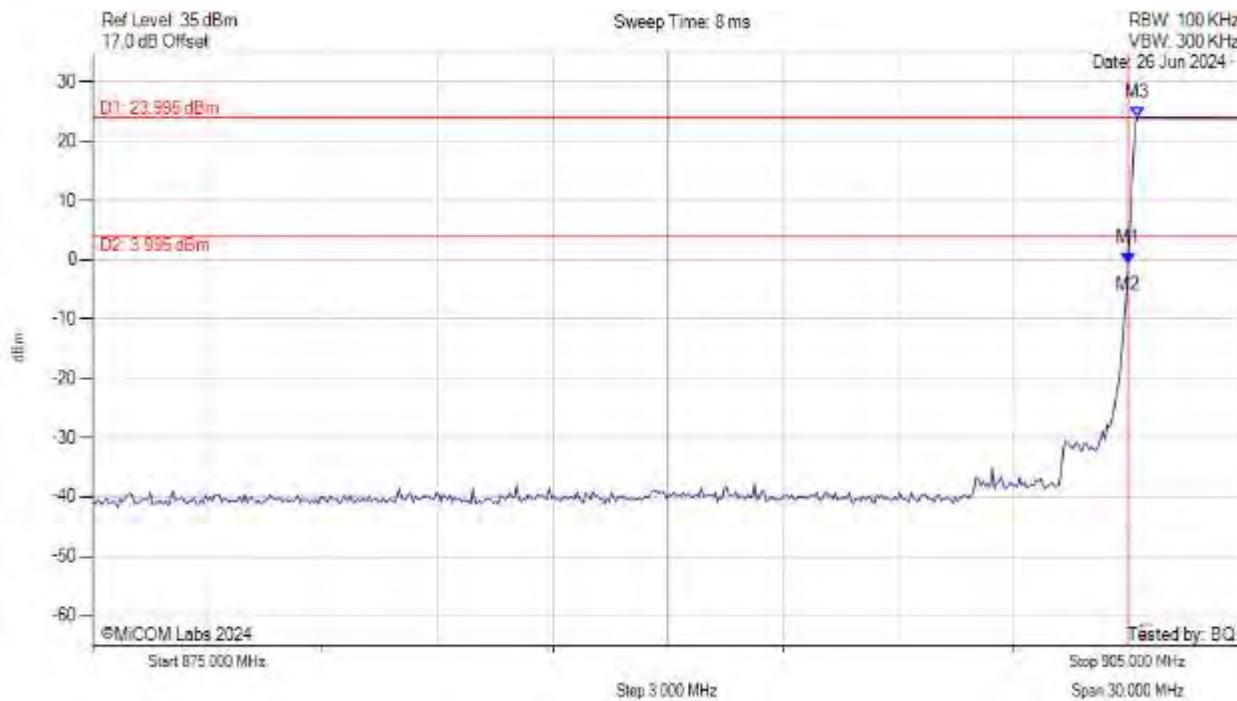
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -14.556 dBm M2 : 902.114 MHz : -2.358 dBm M3 : 902.355 MHz : 24.063 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



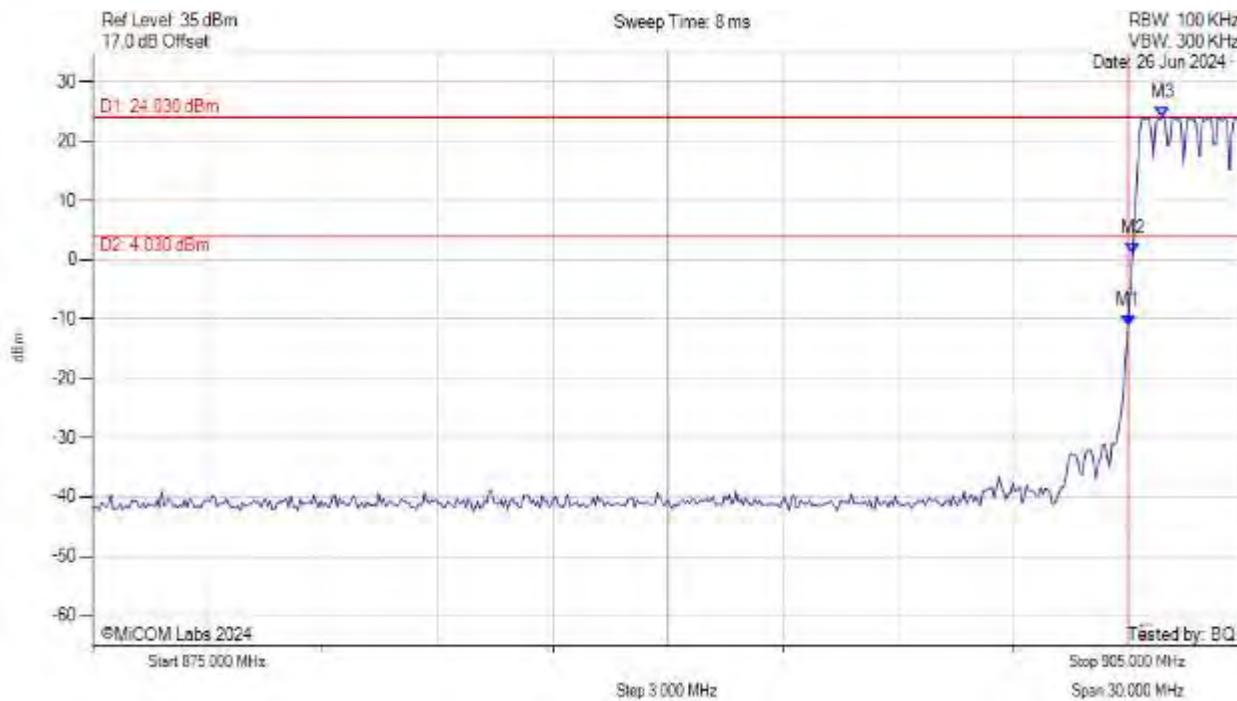
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -0.623 dBm M2 : 901.994 MHz : -0.623 dBm M3 : 902.234 MHz : 23.995 dBm	Channel Frequency: 902.20 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



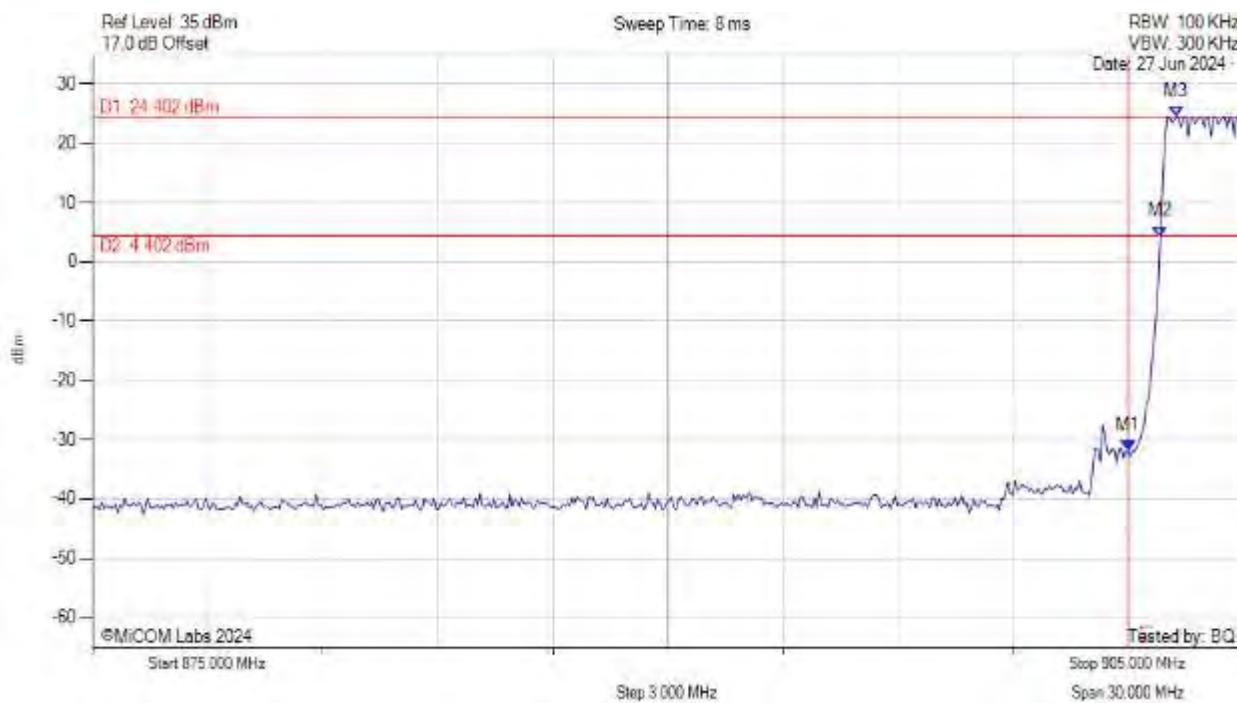
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -11.077 dBm M2 : 902.114 MHz : 1.036 dBm M3 : 902.896 MHz : 24.030 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 903.00 MHz, Chain a, Temp: 20



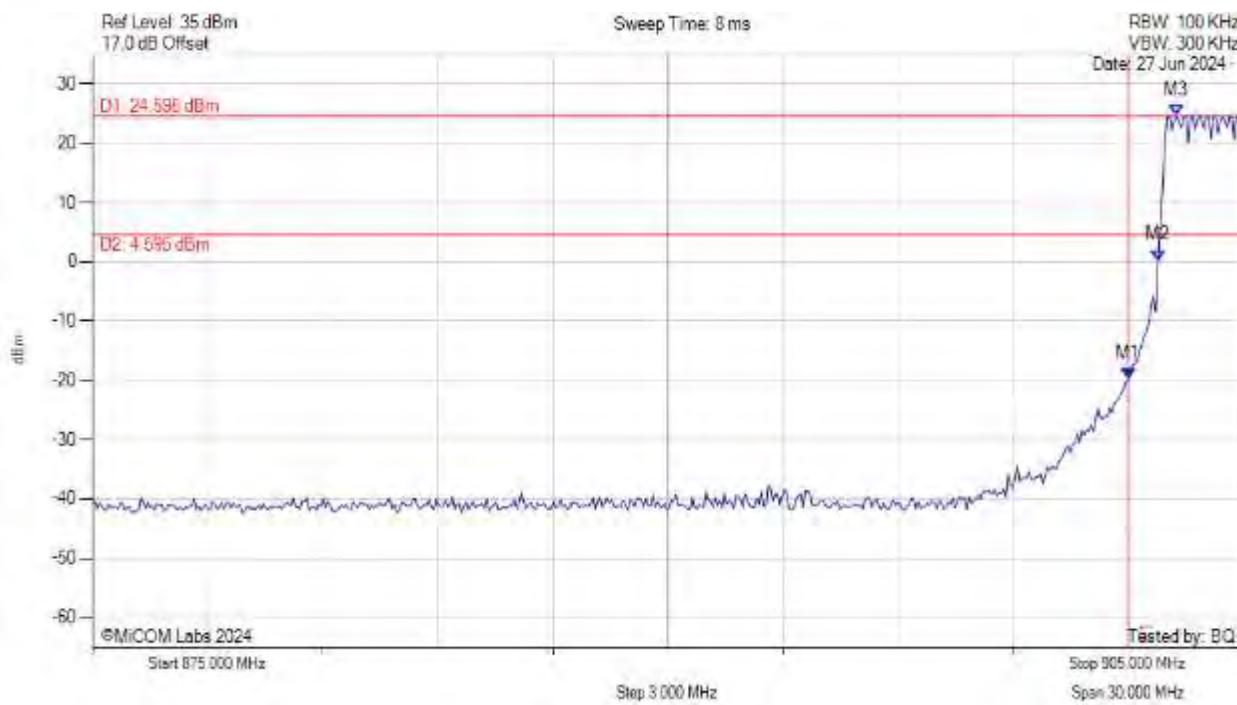
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -31.931 dBm M2 : 902.836 MHz : 4.240 dBm M3 : 903.257 MHz : 24.402 dBm	Channel Frequency: 903.00 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: OOK PL 3, Channel: 903.00 MHz, Chain a, Temp: 20



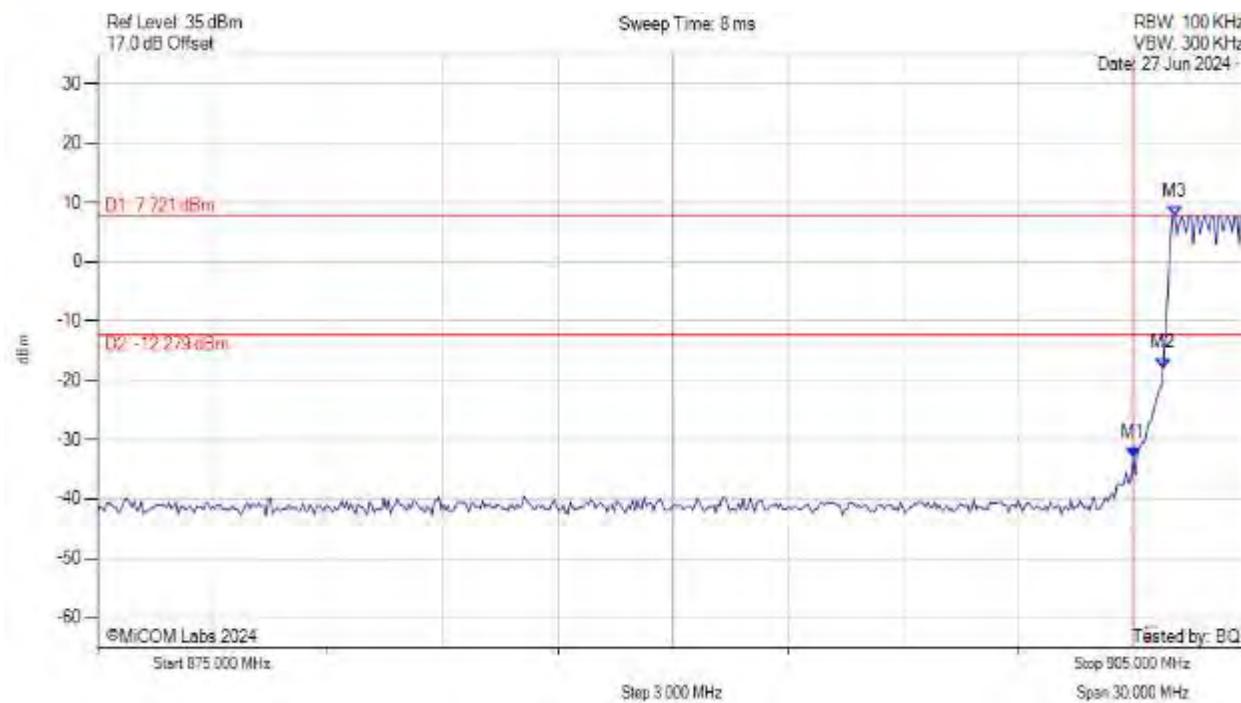
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -19.795 dBm M2 : 902.776 MHz : 0.274 dBm M3 : 903.257 MHz : 24.595 dBm	Channel Frequency: 903.00 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: OOK PL1, Channel: 903.00 MHz, Chain a, Temp: 20



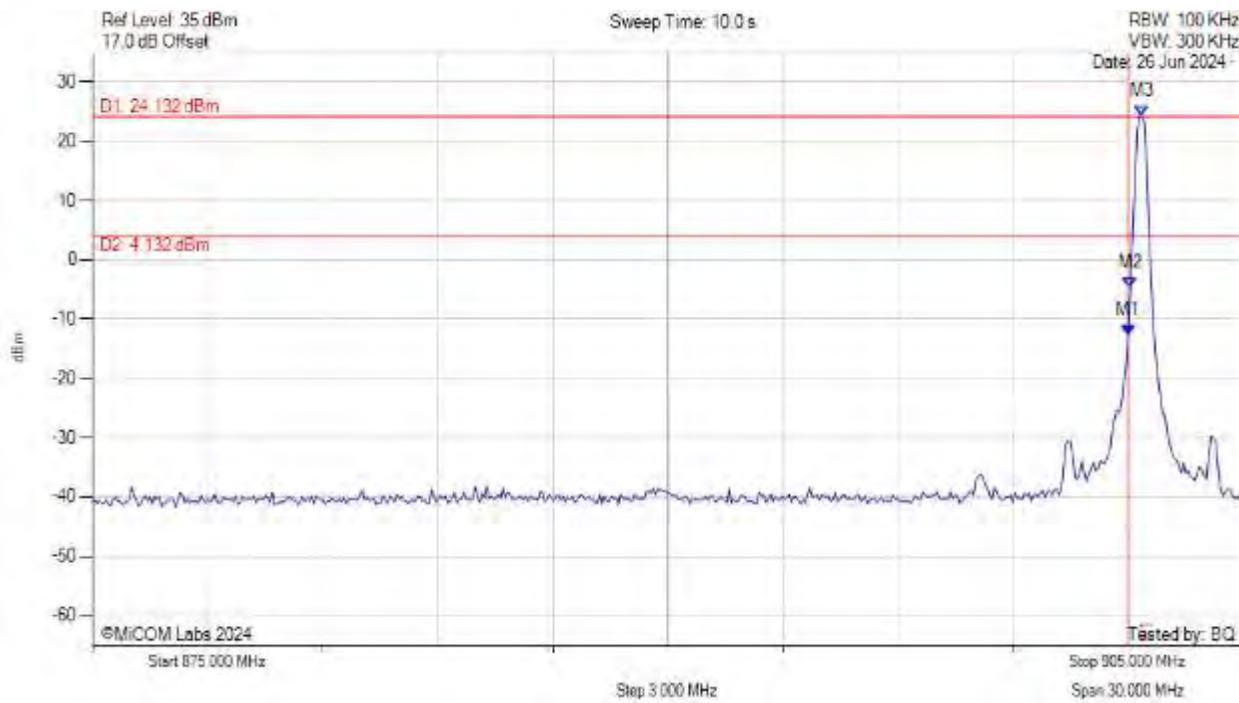
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -33.039 dBm M2 : 902.776 MHz : -17.957 dBm M3 : 903.076 MHz : 7.721 dBm	Channel Frequency: 903.00 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 100kbps, PL 3 (FHSS), Channel: 902.30 MHz, Chain a, Temp: 20



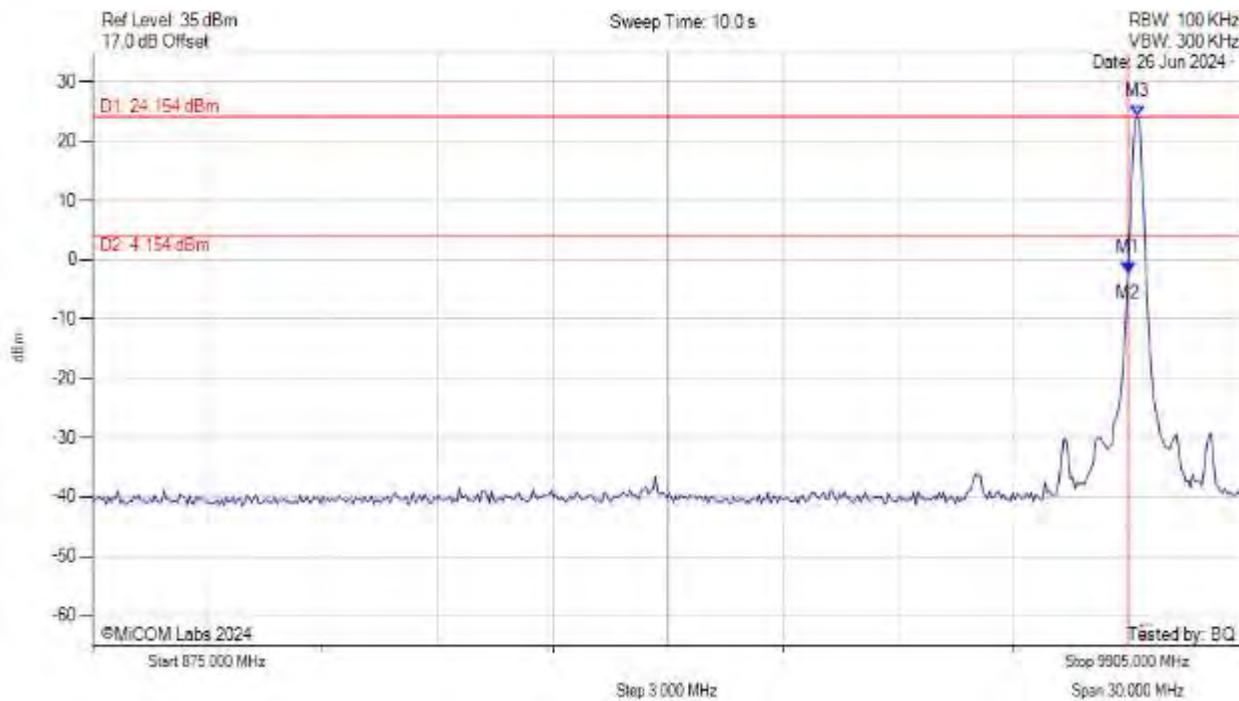
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -12.704 dBm M2 : 902.054 MHz : -4.819 dBm M3 : 902.355 MHz : 24.132 dBm	Channel Frequency: 902.30 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



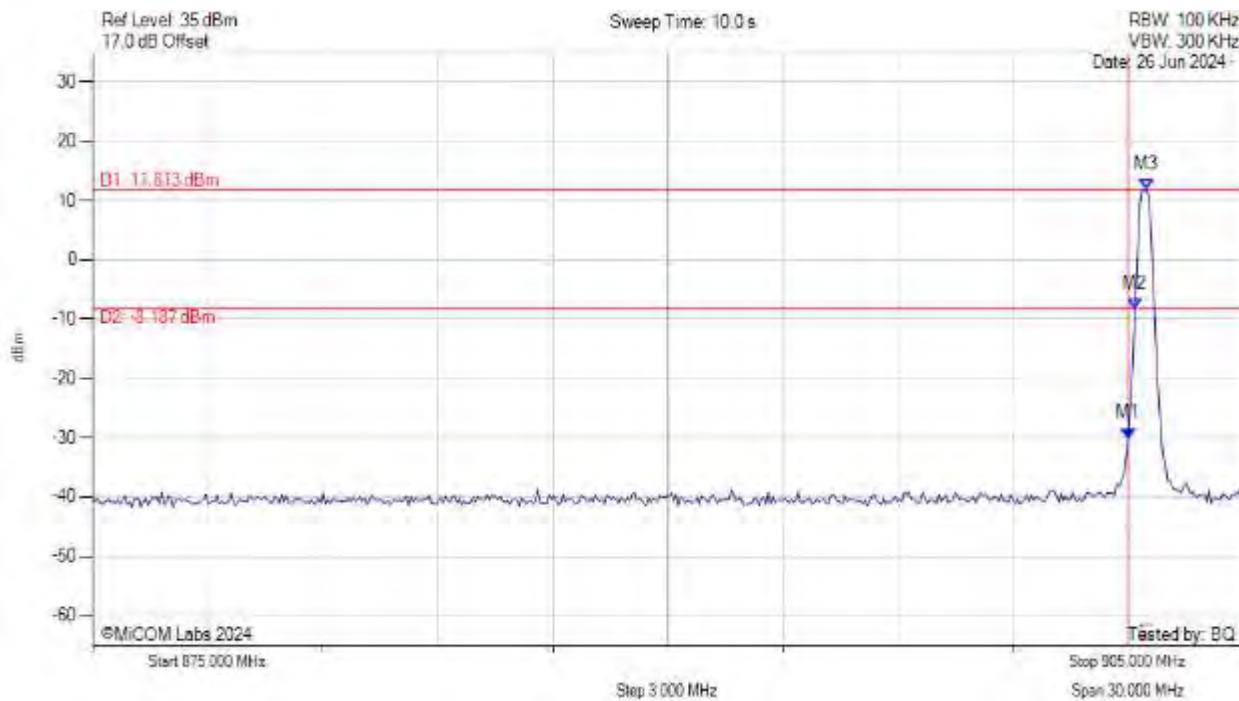
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -2.124 dBm M2 : 901.994 MHz : -2.124 dBm M3 : 902.234 MHz : 24.154 dBm	Channel Frequency: 902.20 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



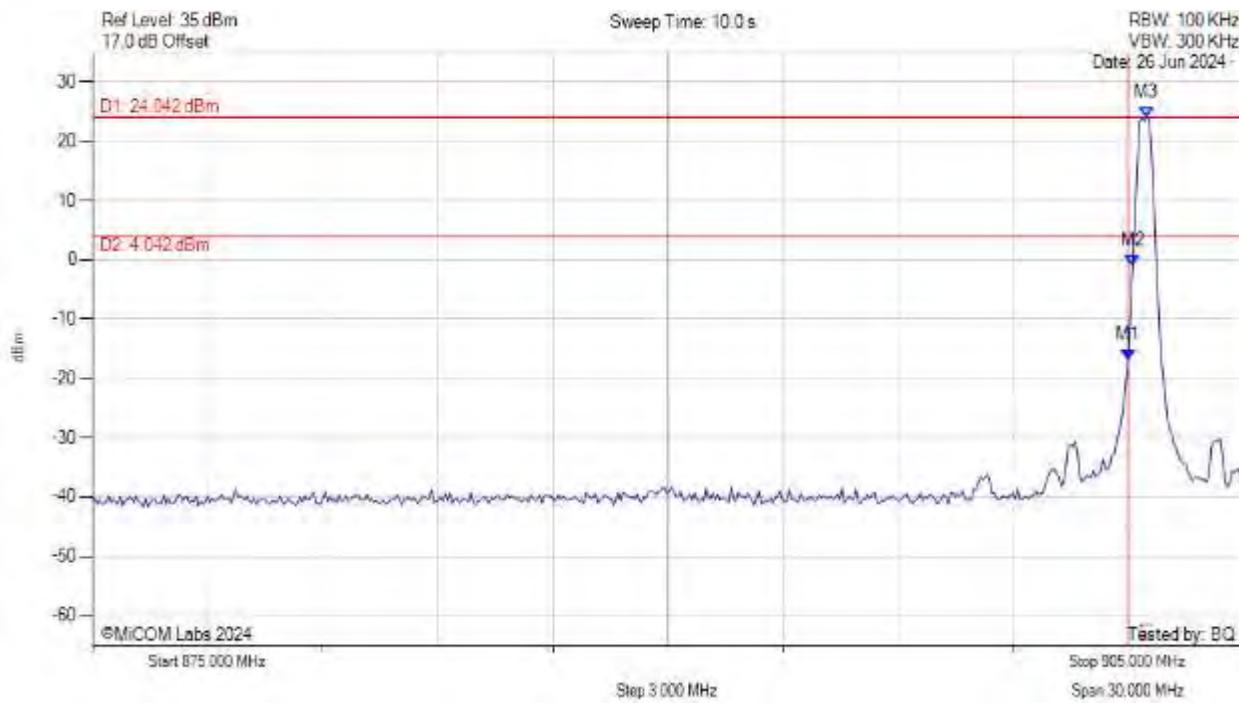
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -30.102 dBm M2 : 902.174 MHz : -8.364 dBm M3 : 902.475 MHz : 11.813 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



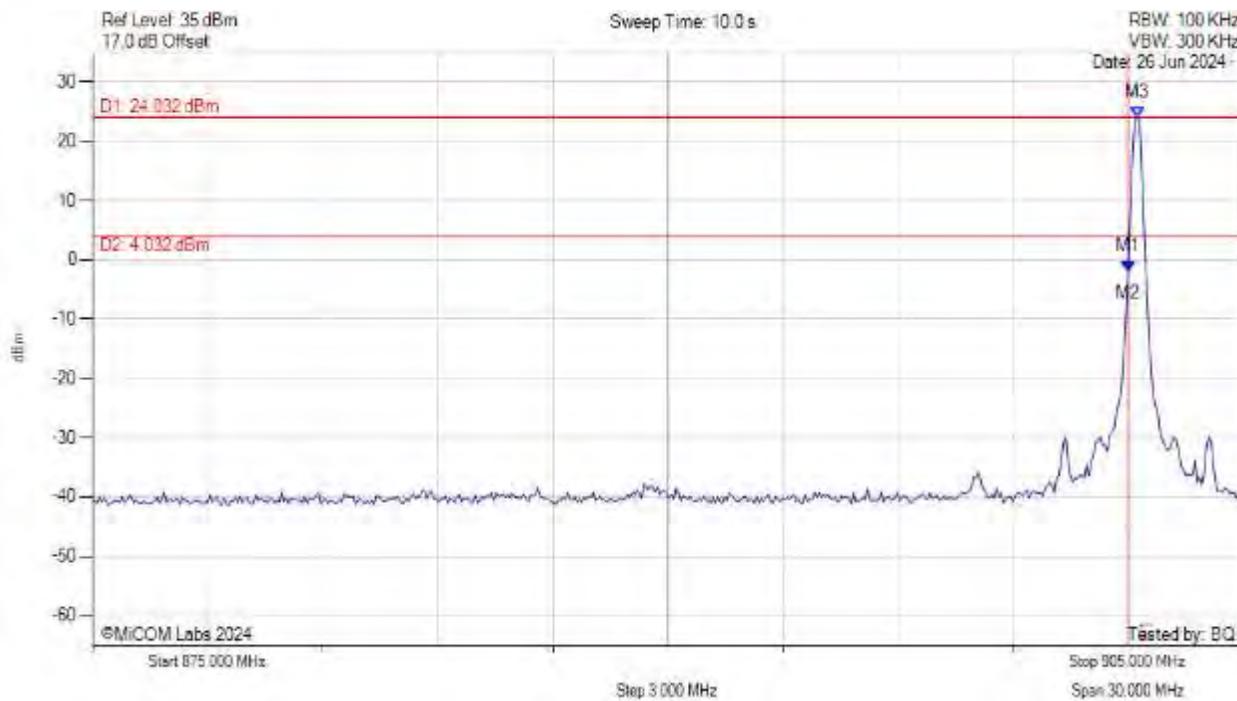
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -16.840 dBm M2 : 902.114 MHz : -1.034 dBm M3 : 902.475 MHz : 24.042 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 902.20 MHz, Chain a, Temp: 20



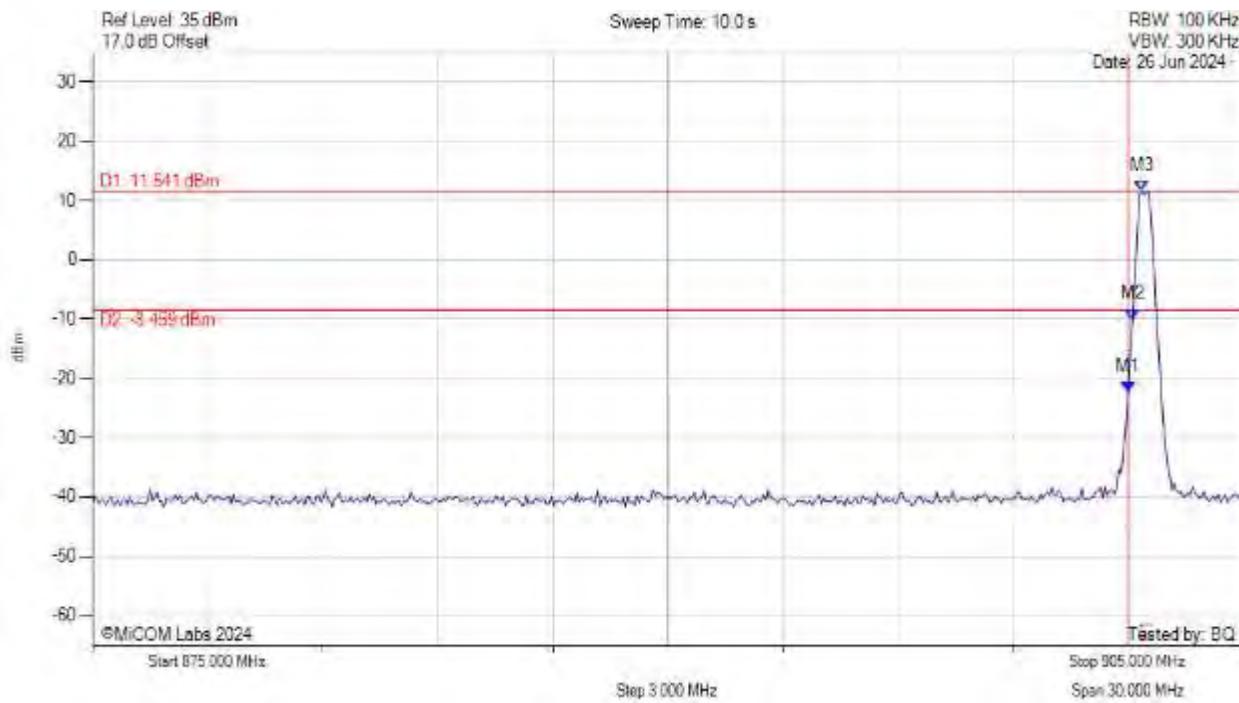
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -2.016 dBm M2 : 901.994 MHz : -2.016 dBm M3 : 902.234 MHz : 24.032 dBm	Channel Frequency: 902.20 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 300kbps PL 2 (Hybrid), Channel: 902.40 MHz, Chain a, Temp: 20



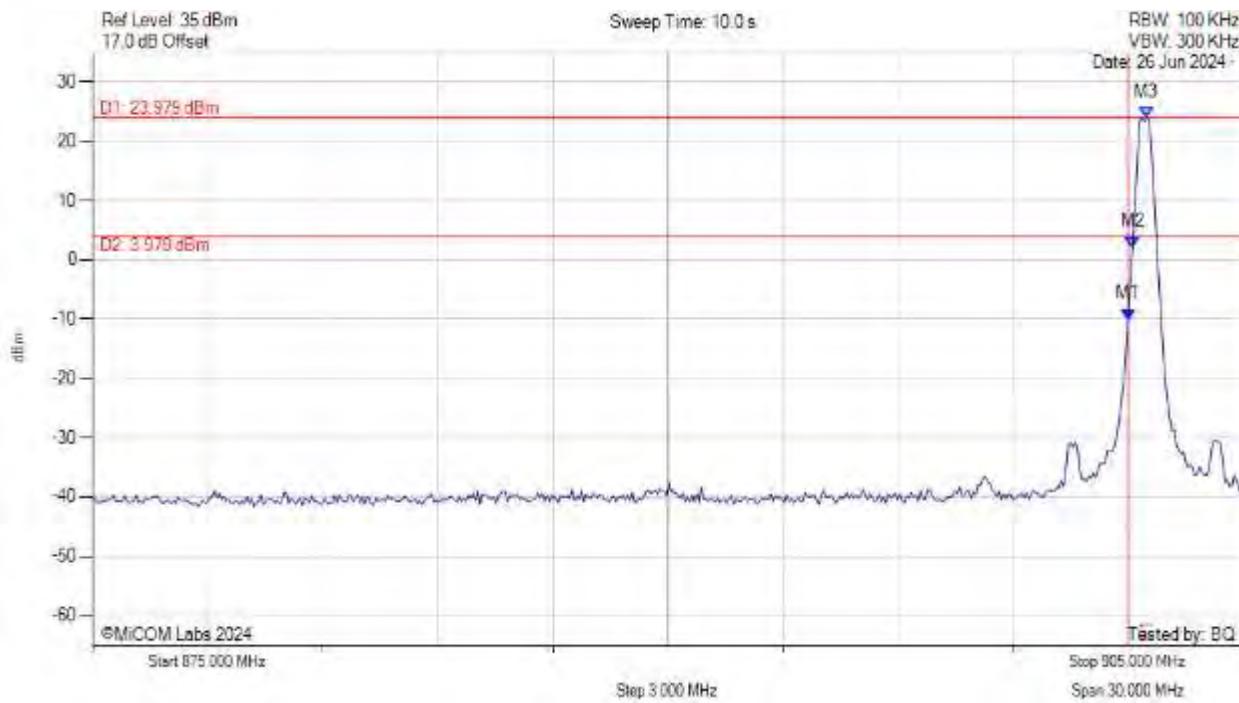
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -22.376 dBm M2 : 902.114 MHz : -10.021 dBm M3 : 902.355 MHz : 11.541 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 902.40 MHz, Chain a, Temp: 20



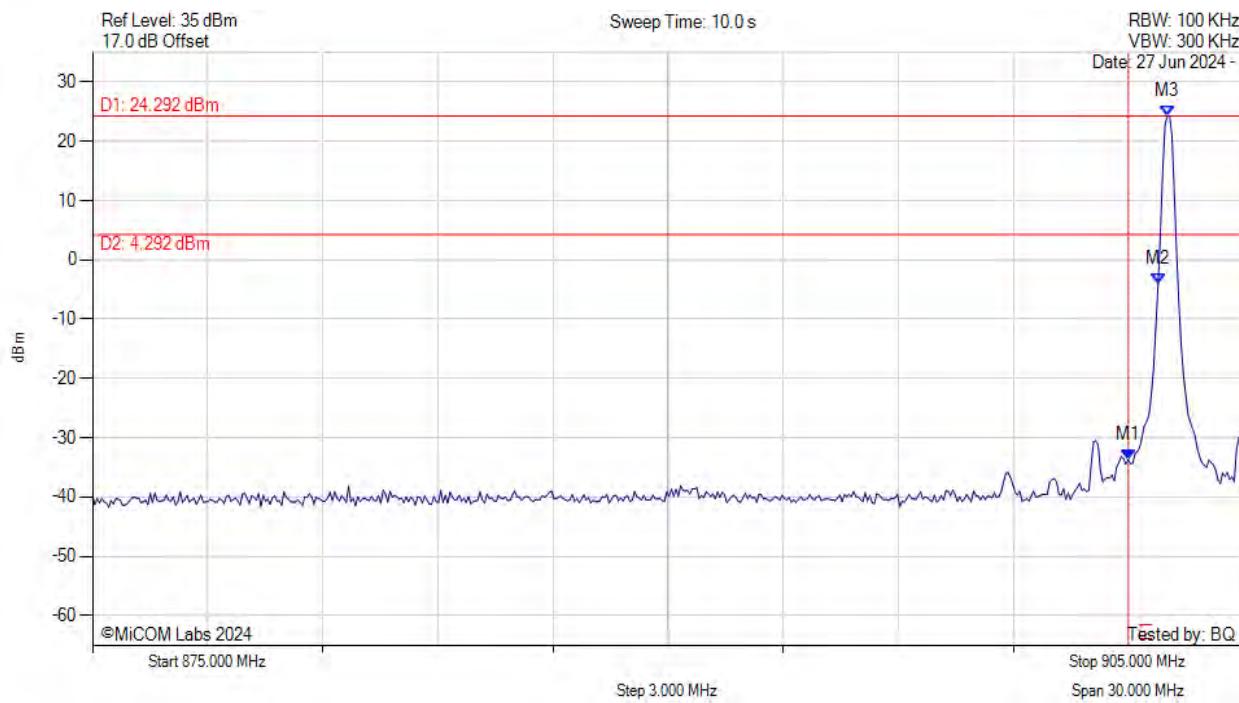
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -10.011 dBm M2 : 902.114 MHz : 2.145 dBm M3 : 902.475 MHz : 23.979 dBm	Channel Frequency: 902.40 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 903.00 MHz, Chain a, Temp: 20



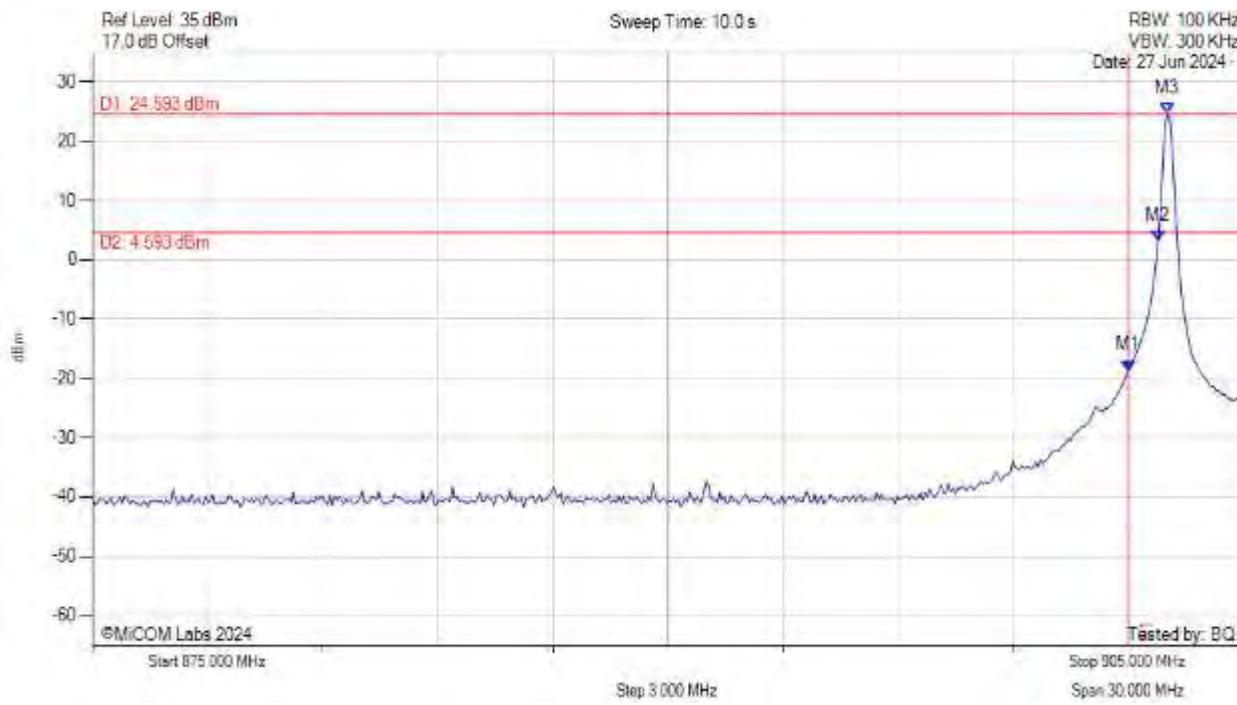
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -33.706 dBm M2 : 902.776 MHz : -3.963 dBm M3 : 903.016 MHz : 24.292 dBm	Channel Frequency: 903.00 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: OOK PL 3, Channel: 903.00 MHz, Chain a, Temp: 20



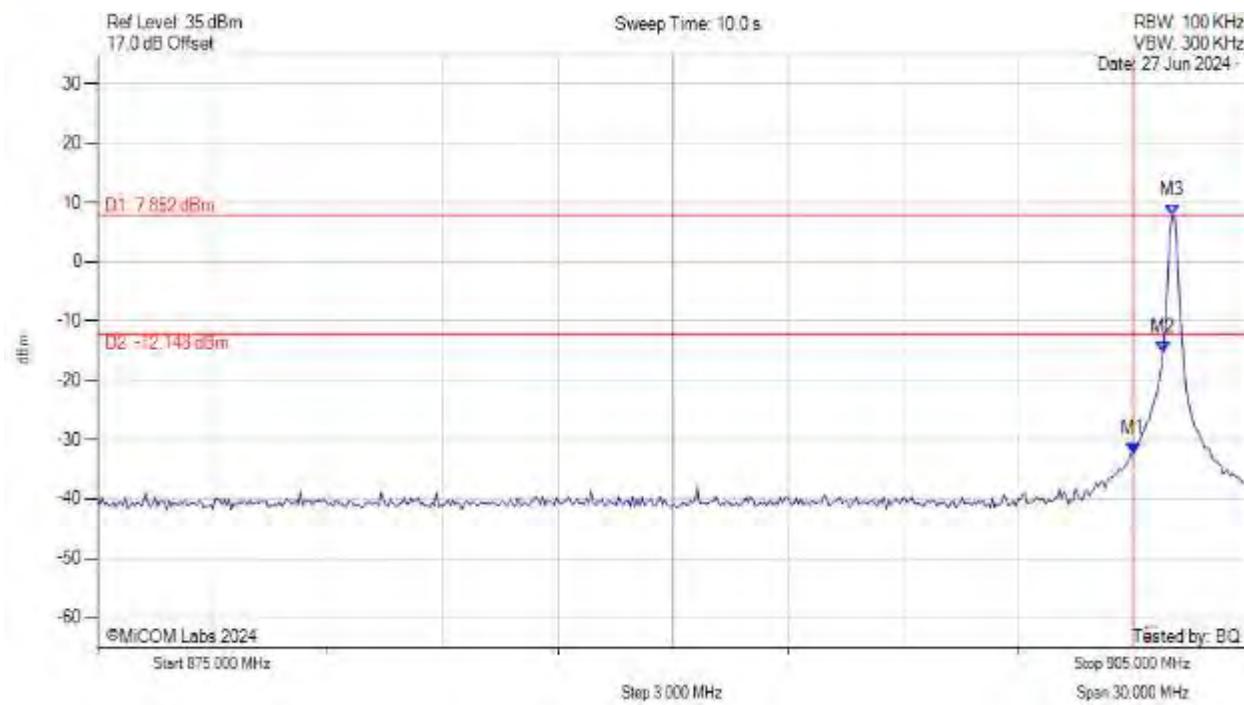
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -18.658 dBm M2 : 902.776 MHz : 3.164 dBm M3 : 903.016 MHz : 24.593 dBm	Channel Frequency: 903.00 MHz

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CONDUCTED LOW BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: OOK PL1, Channel: 903.00 MHz, Chain a, Temp: 20



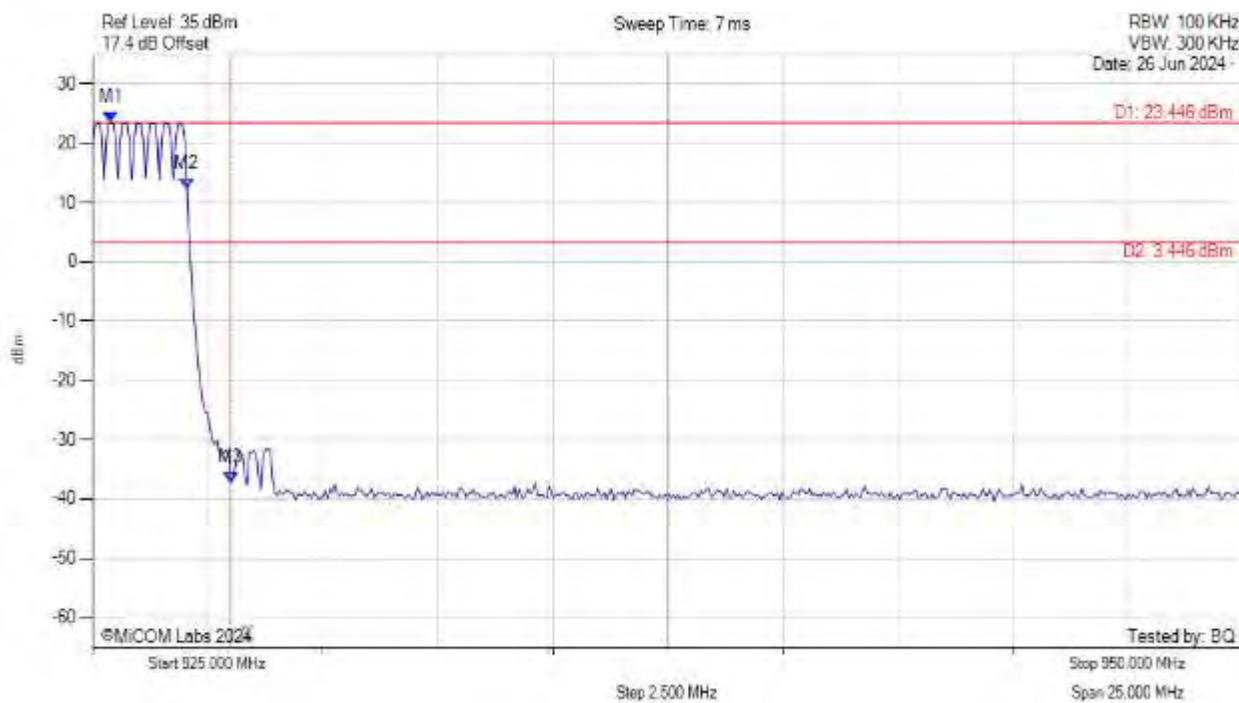
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 902.000 MHz : -32.390 dBm M2 : 902.776 MHz : -15.309 dBm M3 : 903.016 MHz : 7.852 dBm	Channel Frequency: 903.00 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 100kbps, PL 3 (FHSS), Channel: 926.90 MHz, Chain a, Temp: 20



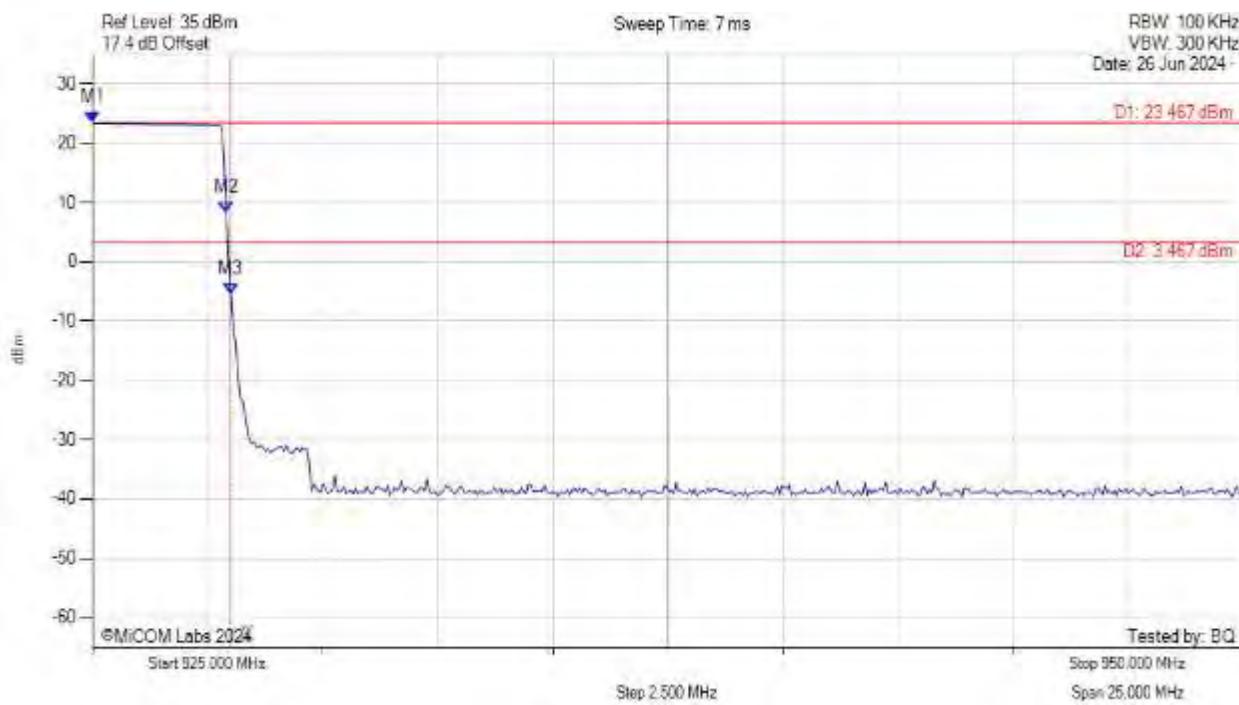
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.401 MHz : 23.446 dBm M2 : 927.054 MHz : 12.251 dBm M3 : 928.000 MHz : -37.192 dBm	Channel Frequency: 926.90 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



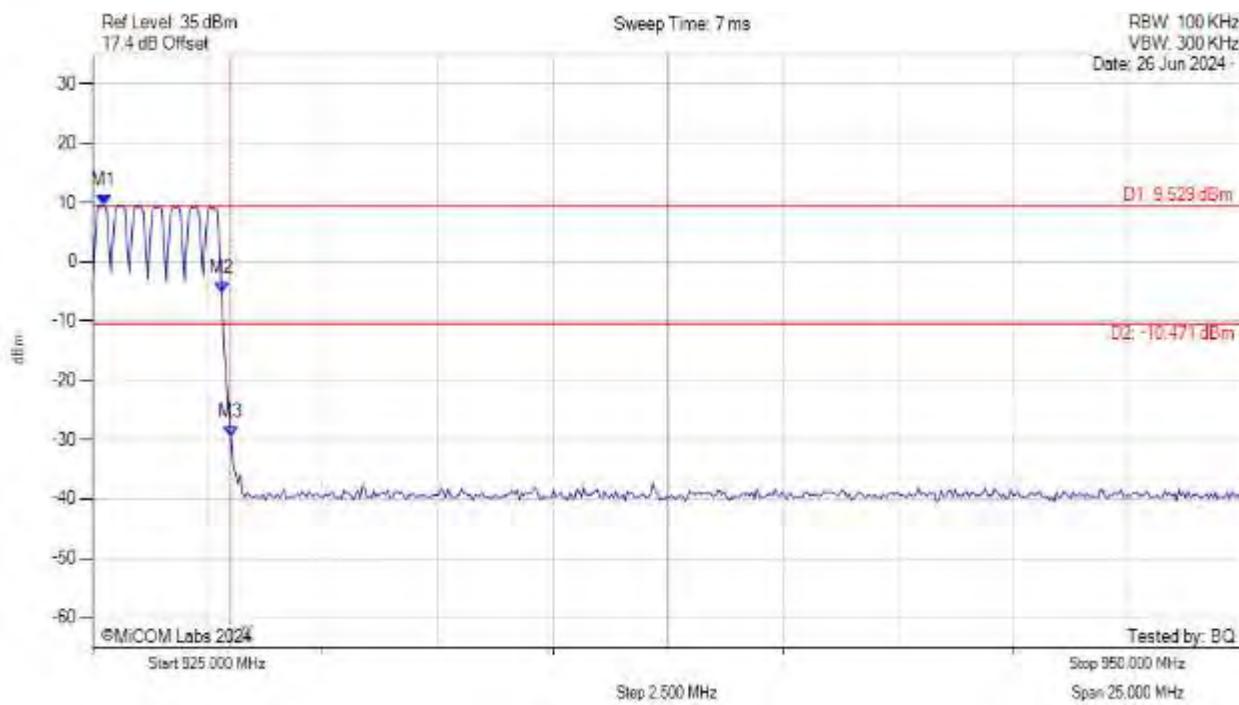
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.000 MHz : 23.467 dBm M2 : 927.906 MHz : 8.315 dBm M3 : 928.000 MHz : -5.518 dBm	Channel Frequency: 927.75 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20



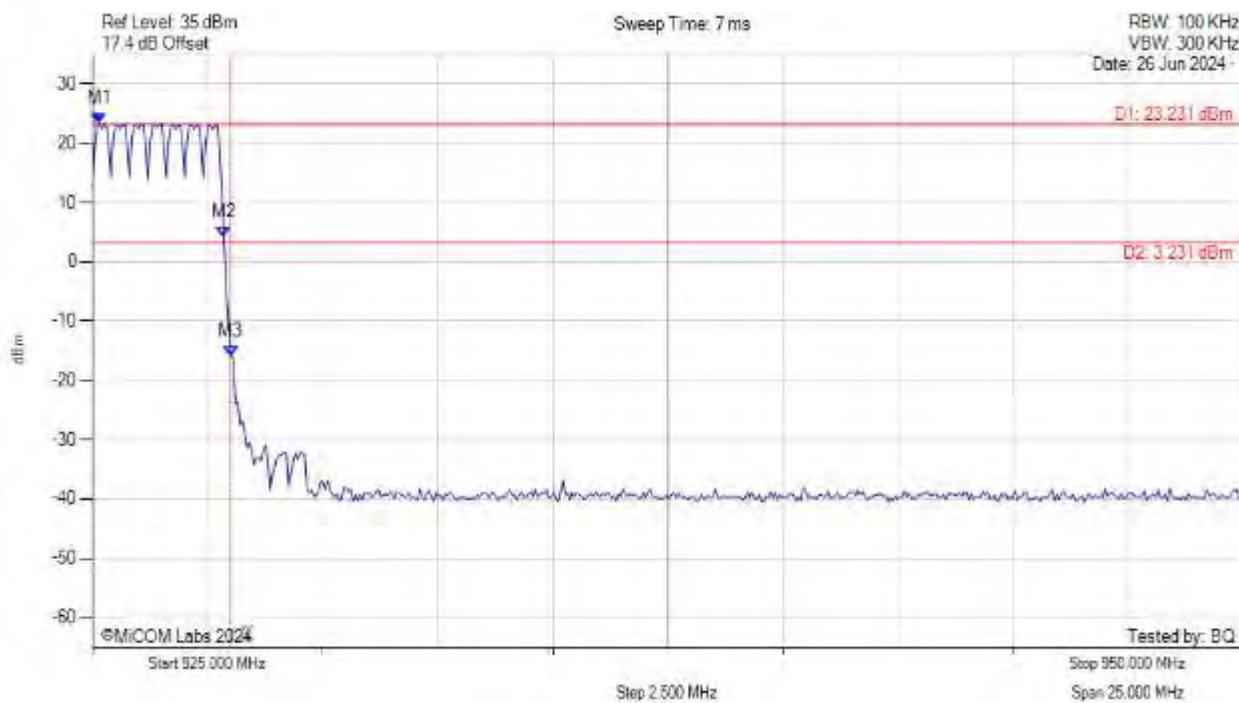
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.251 MHz : 9.529 dBm M2 : 927.806 MHz : -5.242 dBm M3 : 928.000 MHz : -29.561 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



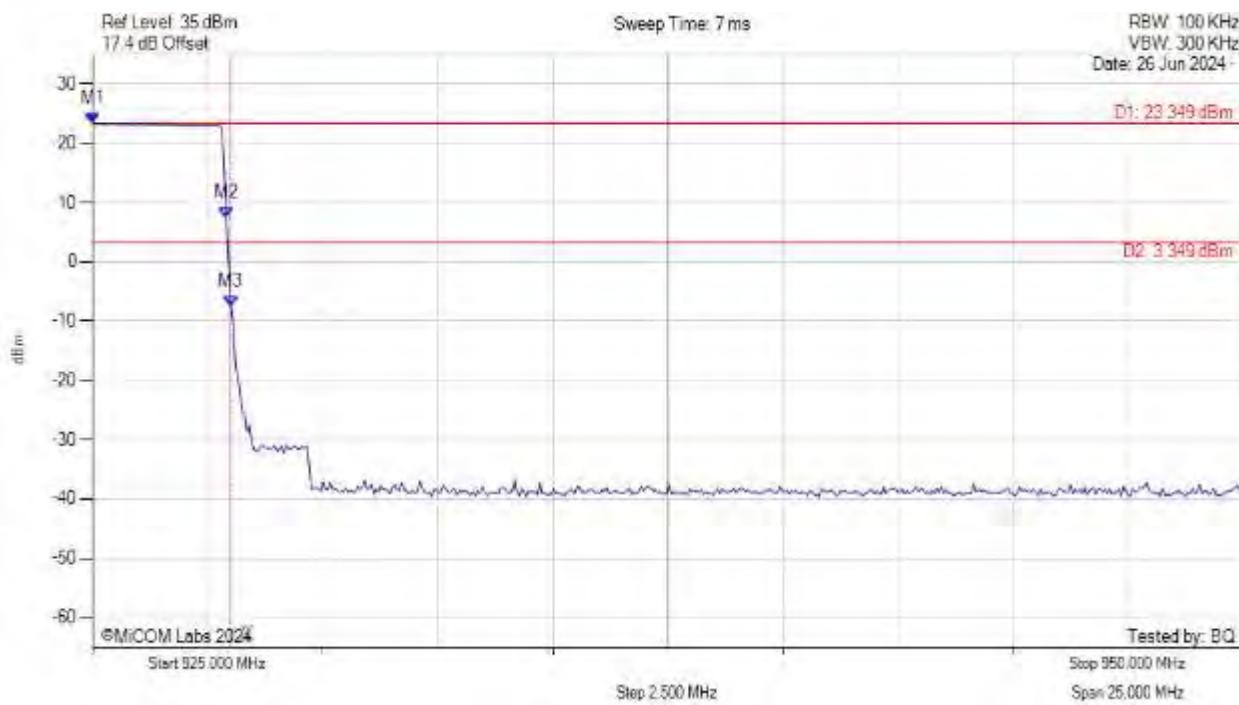
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.150 MHz : 23.231 dBm M2 : 927.856 MHz : 4.055 dBm M3 : 928.000 MHz : -16.071 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



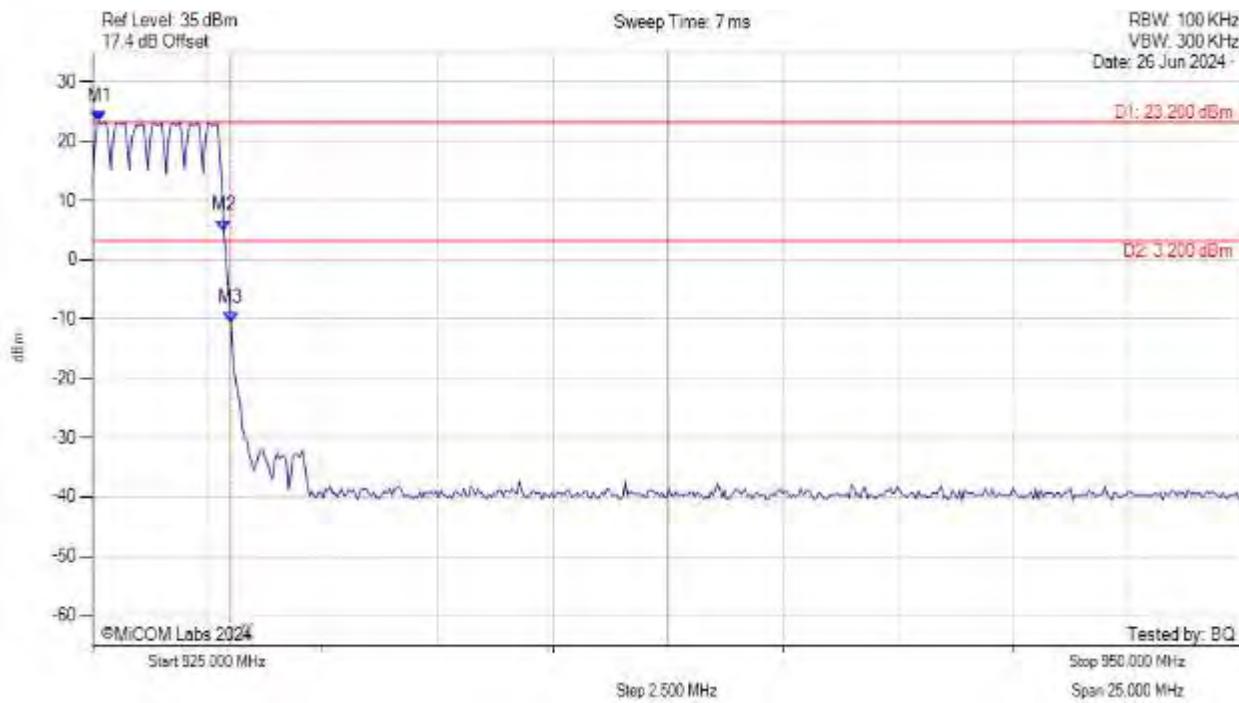
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.000 MHz : 23.349 dBm M2 : 927.906 MHz : 7.313 dBm M3 : 928.000 MHz : -7.515 dBm	Channel Frequency: 927.75 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



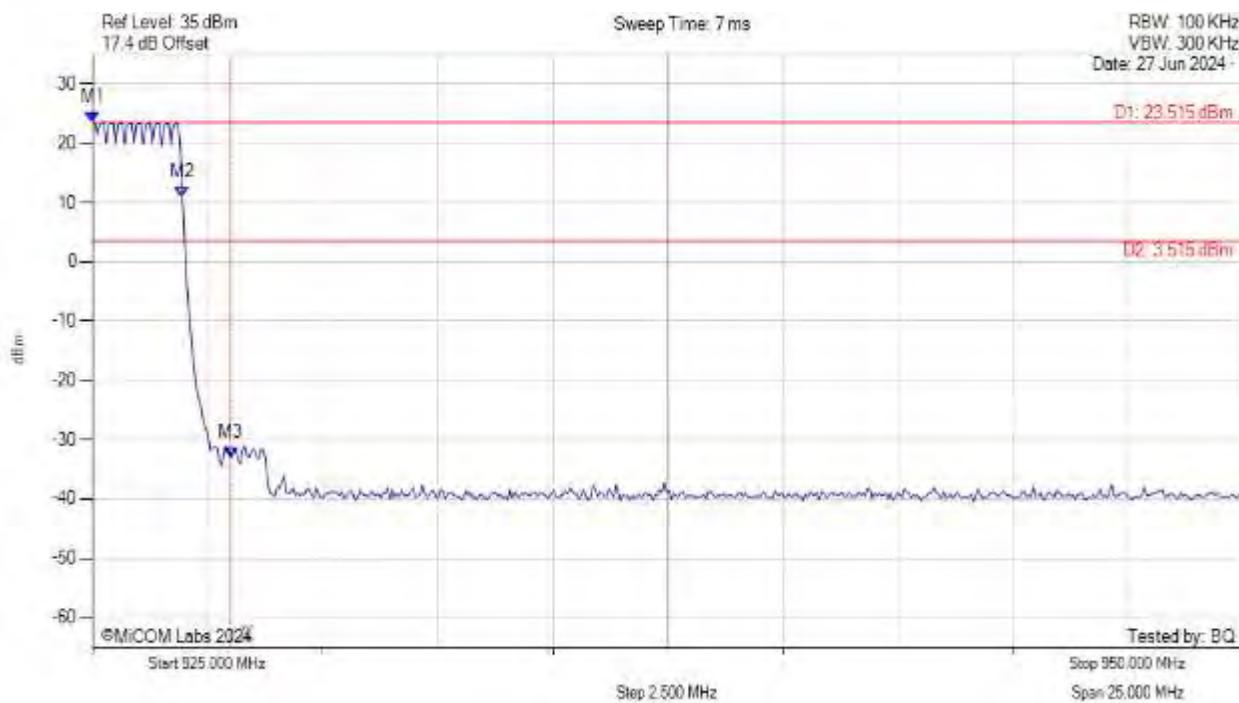
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.150 MHz : 23.200 dBm M2 : 927.856 MHz : 4.947 dBm M3 : 928.000 MHz : -10.582 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 926.80 MHz, Chain a, Temp: 20



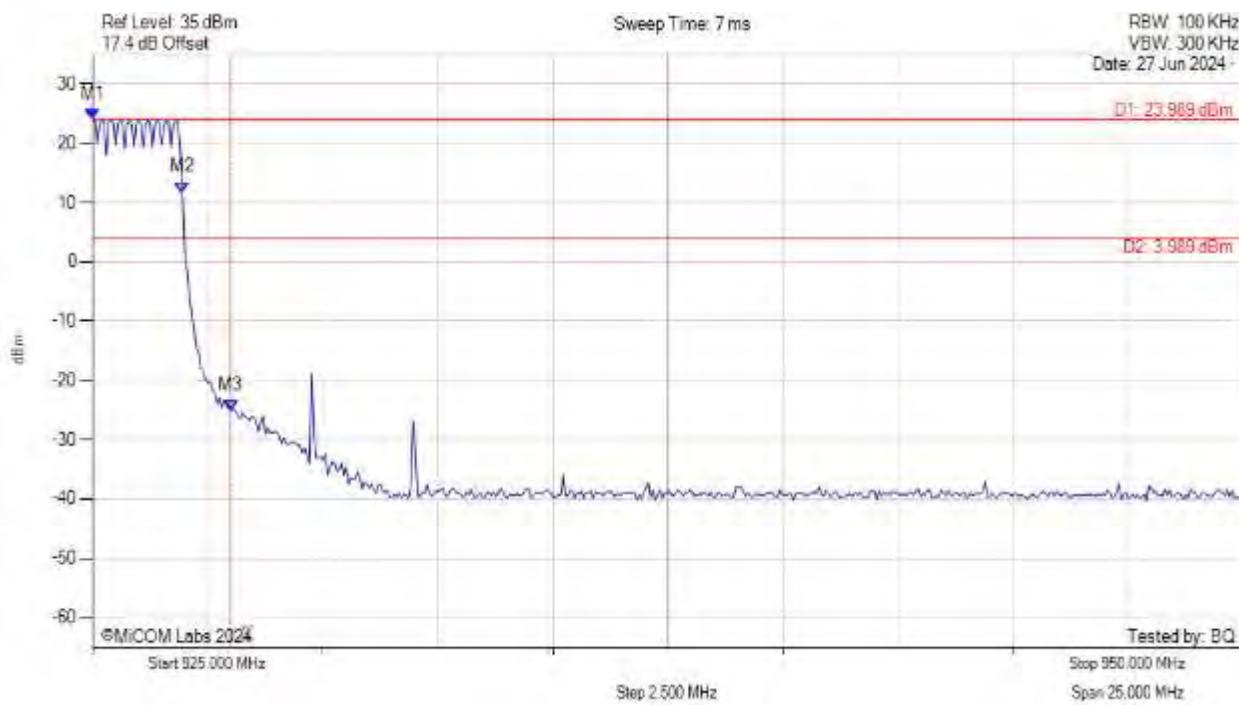
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.000 MHz : 23.515 dBm M2 : 926.954 MHz : 10.906 dBm M3 : 928.000 MHz : -33.067 dBm	Channel Frequency: 926.80 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: OOK PL 3, Channel: 926.80 MHz, Chain a, Temp: 20



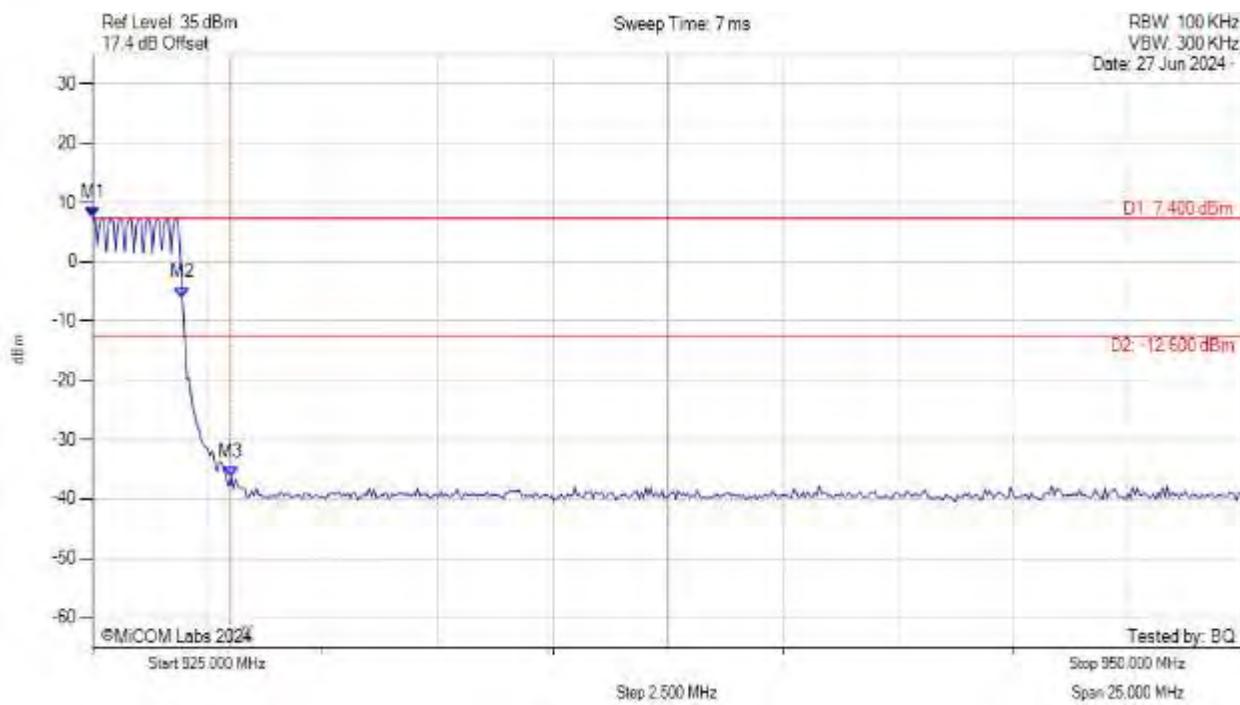
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.000 MHz : 23.989 dBm M2 : 926.954 MHz : 11.712 dBm M3 : 928.000 MHz : -24.998 dBm	Channel Frequency: 926.80 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (HOPPING) PEAK



Variant: OOK PL1, Channel: 926.80 MHz, Chain a, Temp: 20



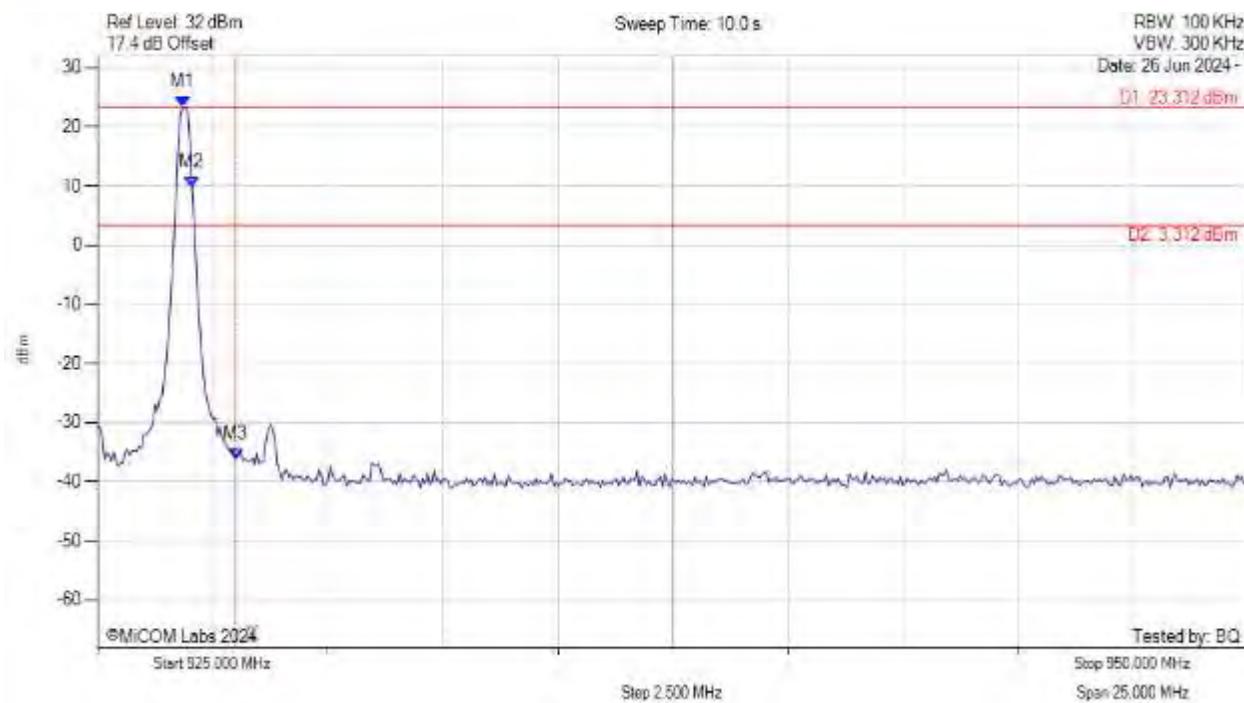
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 925.000 MHz : 7.400 dBm M2 : 926.954 MHz : -6.031 dBm M3 : 928.000 MHz : -36.248 dBm	Channel Frequency: 926.80 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 100kbps, PL 3 (FHSS), Channel: 926.90 MHz, Chain a, Temp: 20



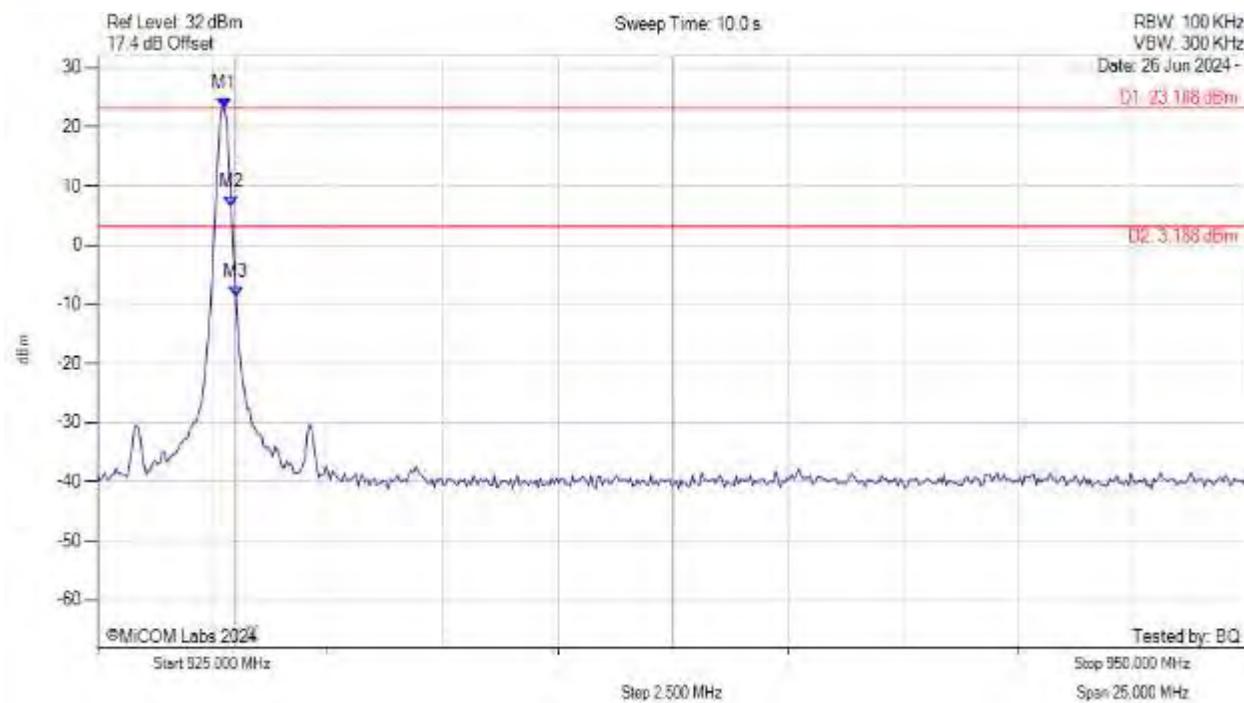
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 926.854 MHz : 23.312 dBm M2 : 927.054 MHz : 9.802 dBm M3 : 928.000 MHz : -36.104 dBm	Channel Frequency: 926.90 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 10kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



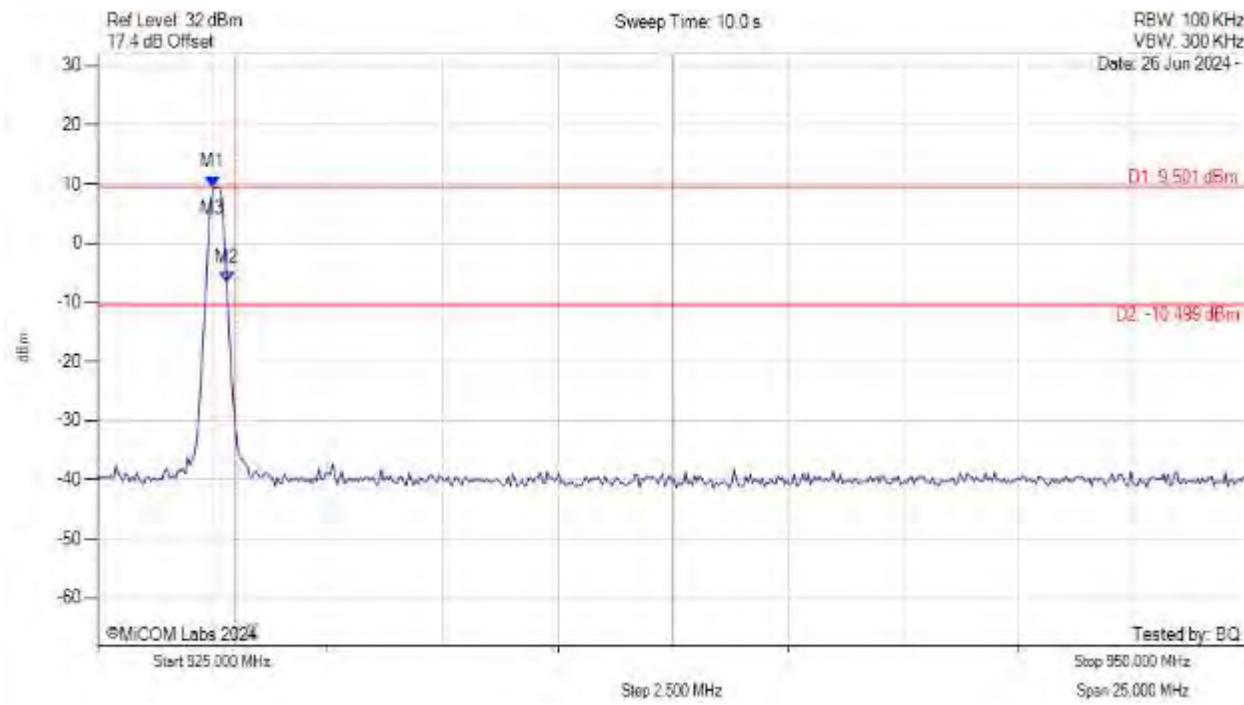
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 927.756 MHz : 23.188 dBm M2 : 927.906 MHz : 6.379 dBm M3 : 928.000 MHz : -8.779 dBm	Channel Frequency: 927.75 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 150kbps, PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20



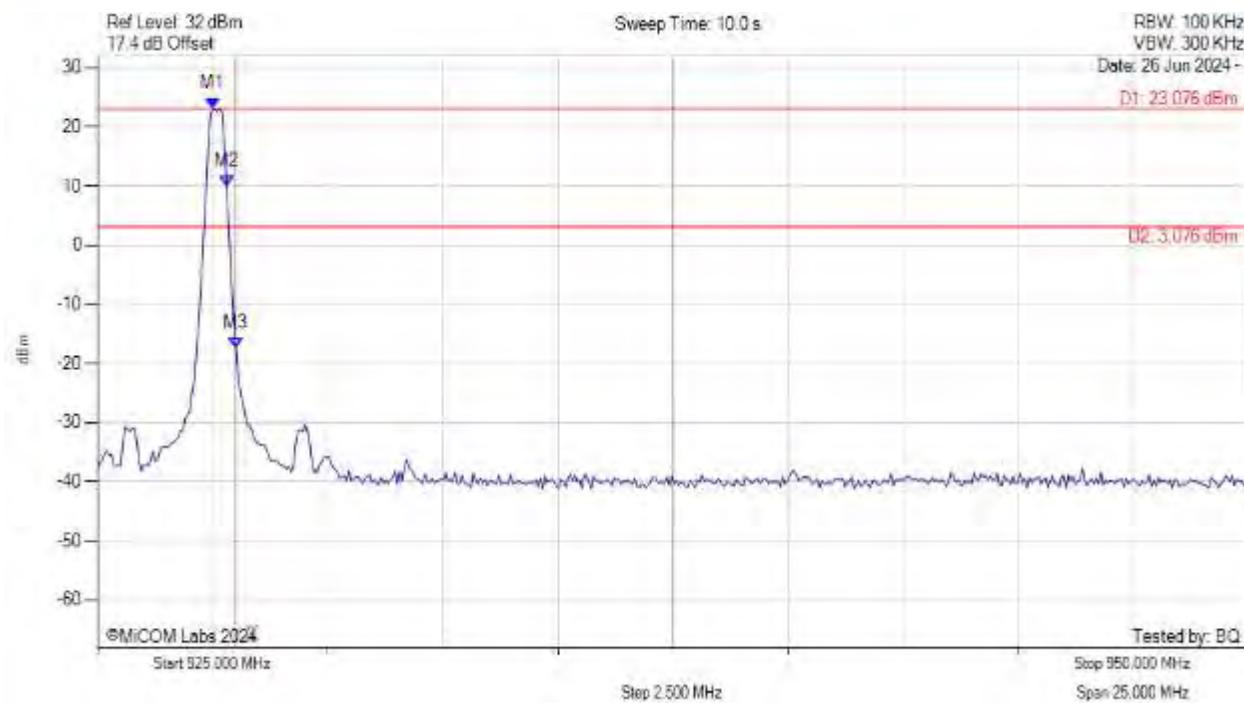
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 927.505 MHz : 9.501 dBm M2 : 927.806 MHz : -6.751 dBm M3 : 927.505 MHz : 9.501 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 150kbps, PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



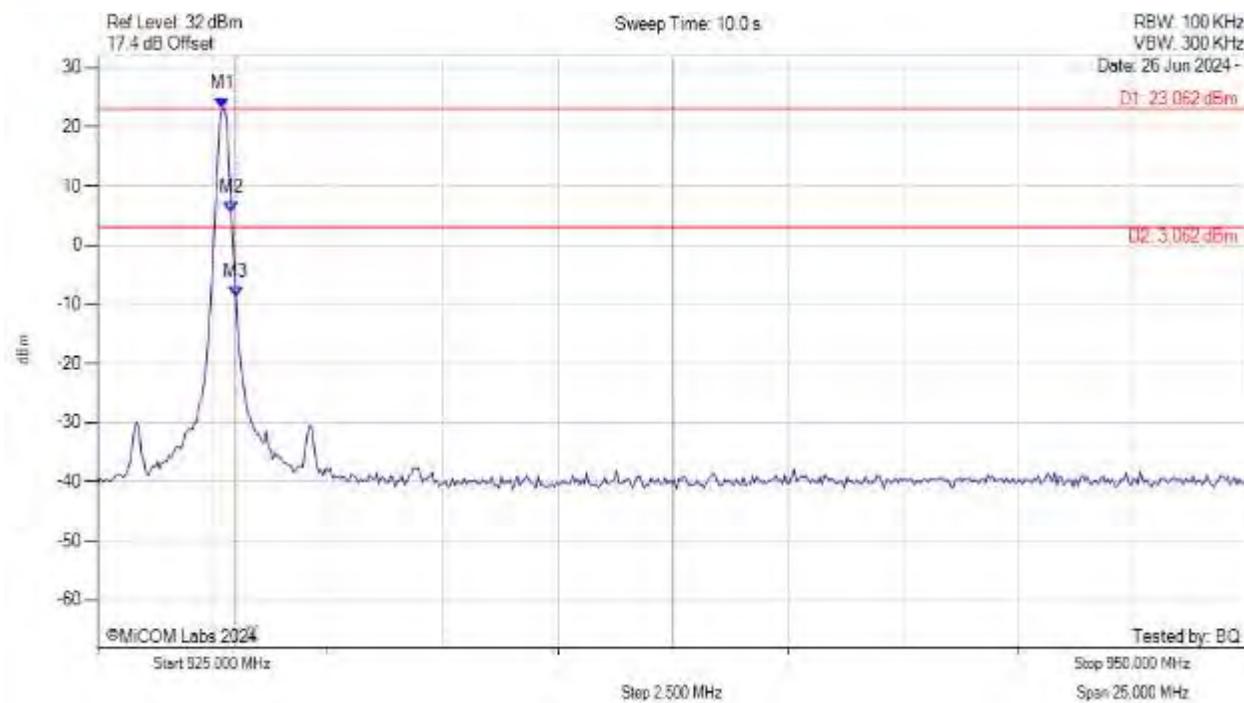
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 927.505 MHz : 23.076 dBm M2 : 927.806 MHz : 10.048 dBm M3 : 928.000 MHz : -17.373 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 25kbps, PL 3 (FHSS), Channel: 927.75 MHz, Chain a, Temp: 20



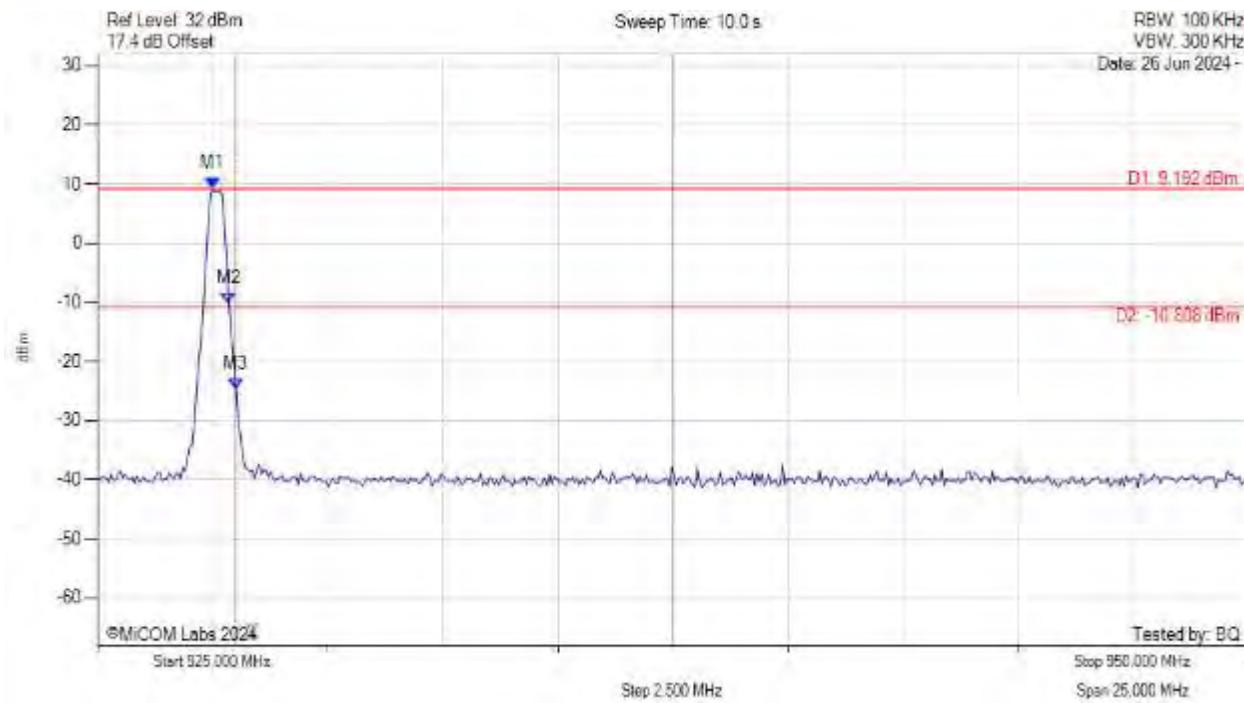
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 927.705 MHz : 23.062 dBm M2 : 927.906 MHz : 5.498 dBm M3 : 928.000 MHz : -8.842 dBm	Channel Frequency: 927.75 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 300kbps PL 2 (Hybrid), Channel: 927.60 MHz, Chain a, Temp: 20



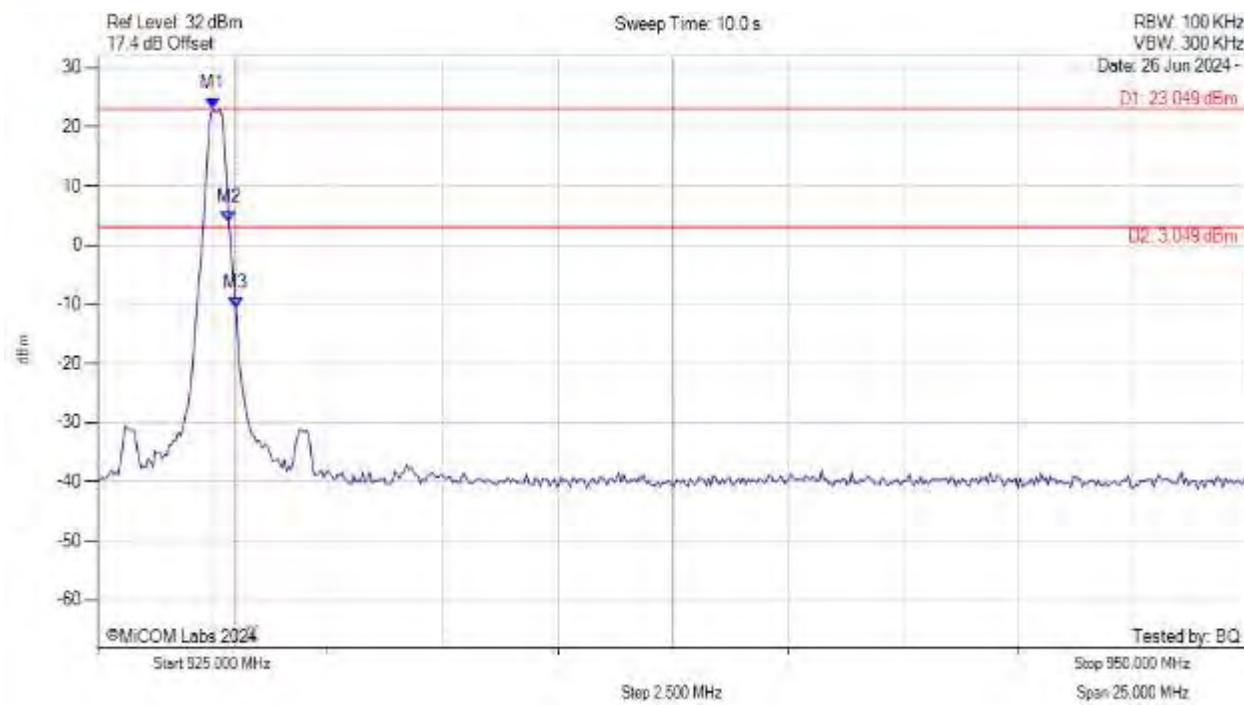
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 927.505 MHz : 9.192 dBm M2 : 927.856 MHz : -10.233 dBm M3 : 928.000 MHz : -24.654 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 300kbps PL 3 (FHSS), Channel: 927.60 MHz, Chain a, Temp: 20



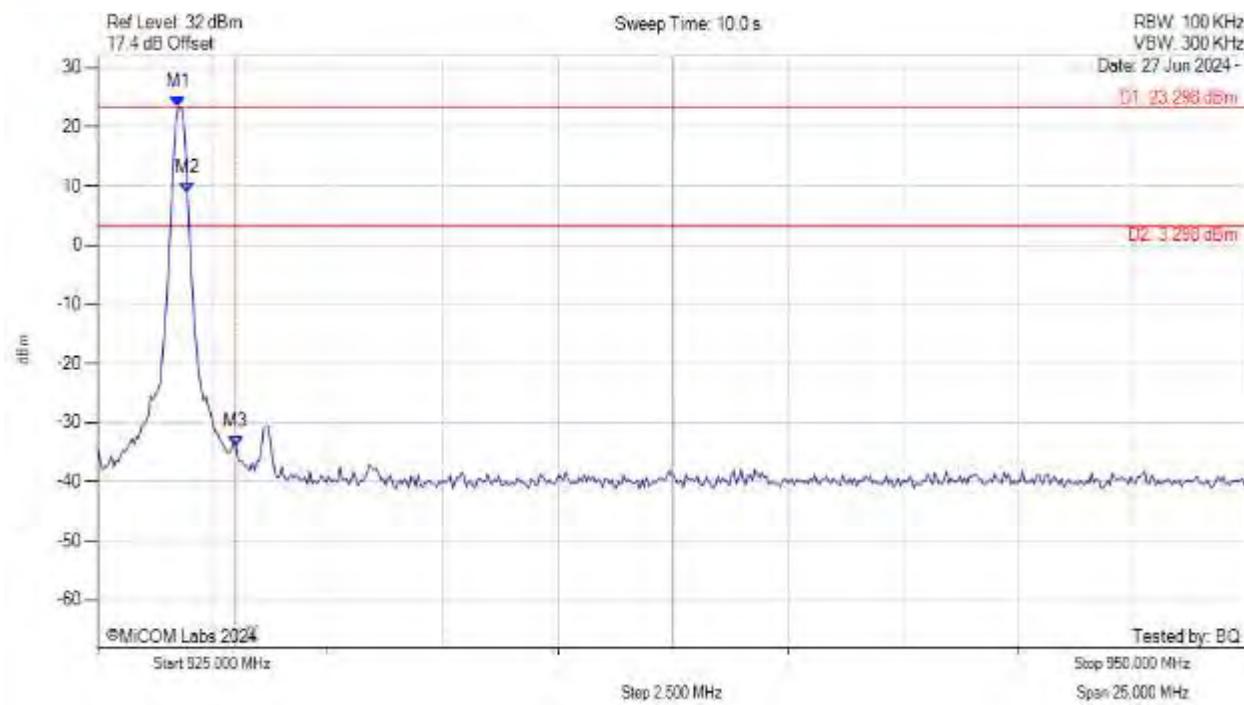
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 927.505 MHz : 23.049 dBm M2 : 927.856 MHz : 3.841 dBm M3 : 928.000 MHz : -10.678 dBm	Channel Frequency: 927.60 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: 37.5kbps, PL 3 (FHSS), Channel: 926.80 MHz, Chain a, Temp: 20



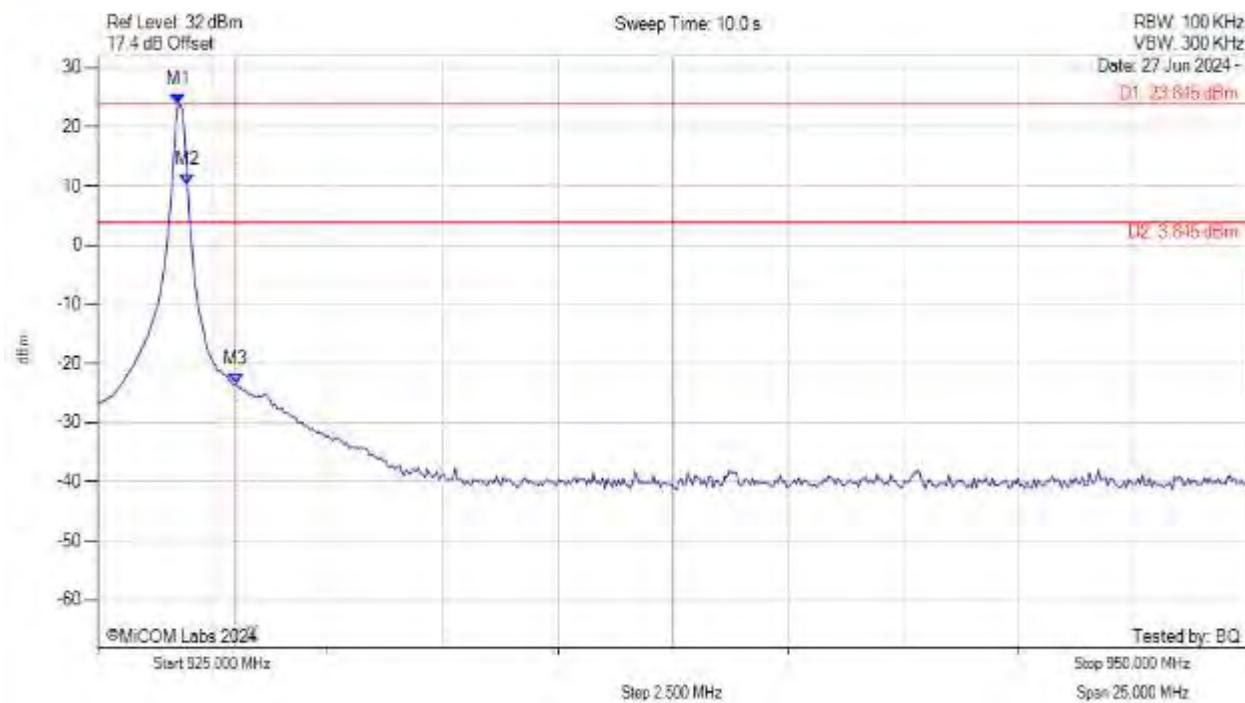
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 926.754 MHz : 23.298 dBm M2 : 926.954 MHz : 8.832 dBm M3 : 928.000 MHz : -34.013 dBm	Channel Frequency: 926.80 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: OOK PL 3, Channel: 926.80 MHz, Chain a, Temp: 20



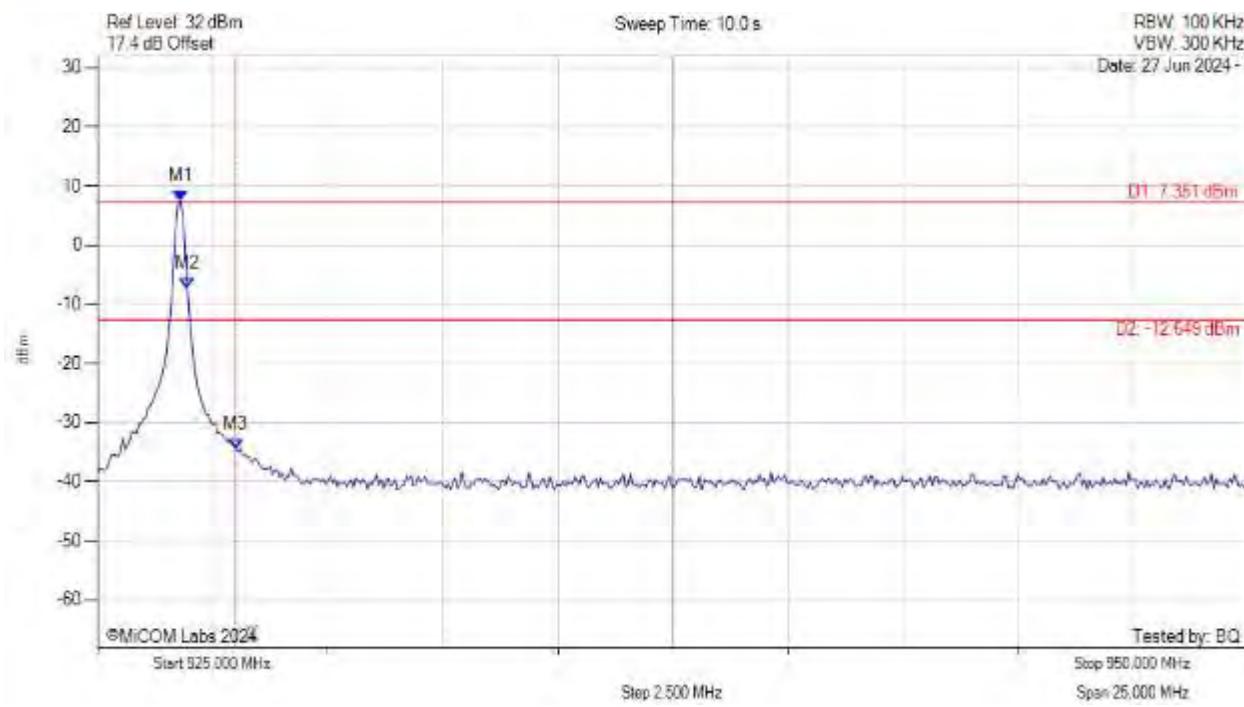
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 926.754 MHz : 23.845 dBm M2 : 926.954 MHz : 10.243 dBm M3 : 928.000 MHz : -23.627 dBm	Channel Frequency: 926.80 MHz

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CONDUCTED UPPER BAND-EDGE EMISSIONS (STATIC) PEAK



Variant: OOK PL1, Channel: 926.80 MHz, Chain a, Temp: 20



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 30 Trace Mode = VIEW	M1 : 926.804 MHz : 7.351 dBm M2 : 926.954 MHz : -7.331 dBm M3 : 928.000 MHz : -34.636 dBm	Channel Frequency: 926.80 MHz

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