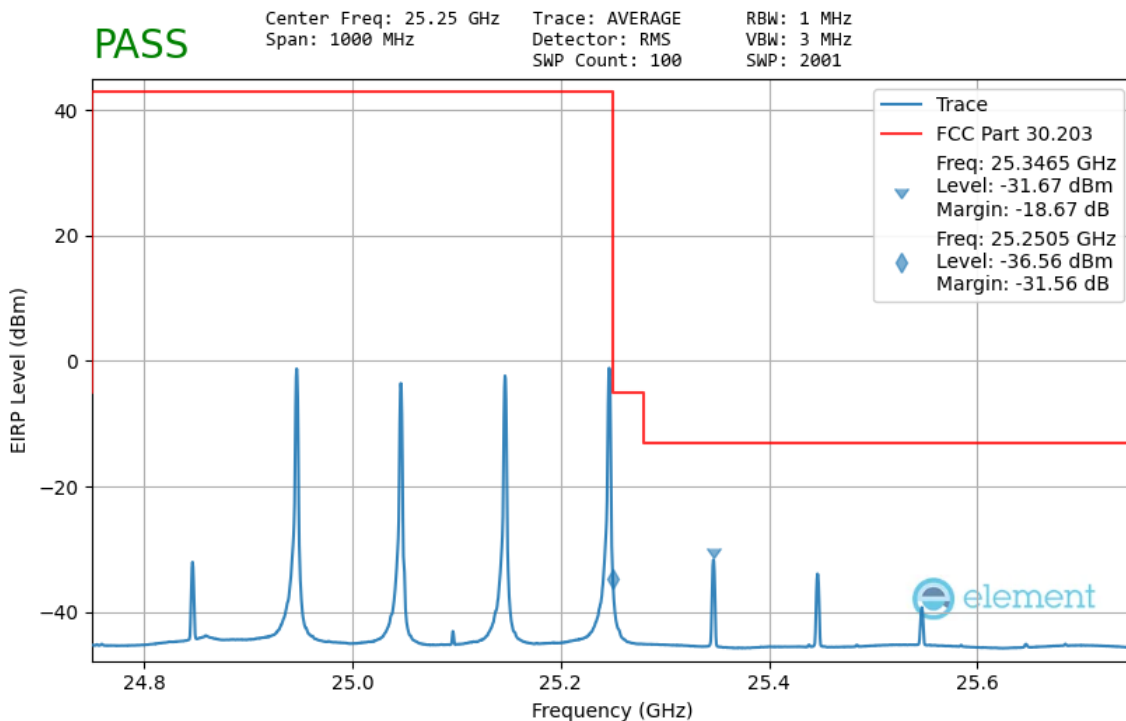
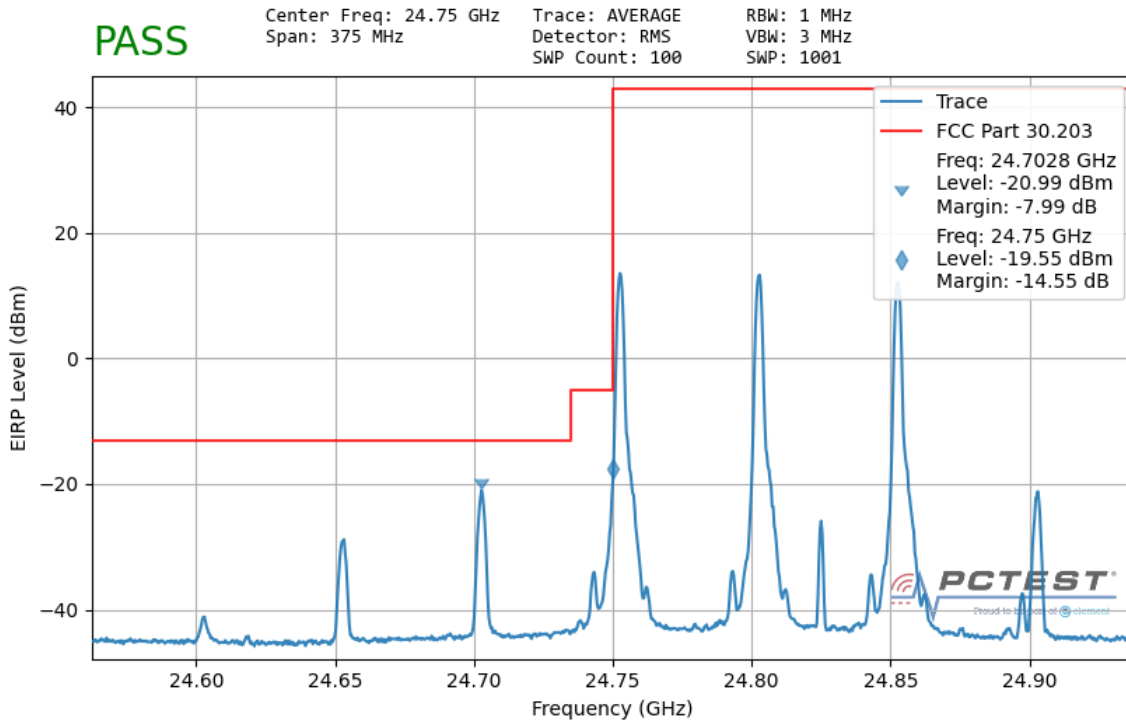


**Plot 7-107. Ant 1 Upper Band Edge TRP (100MHz-3CC –  $\pi/2$ -BPSK 1 RB)**

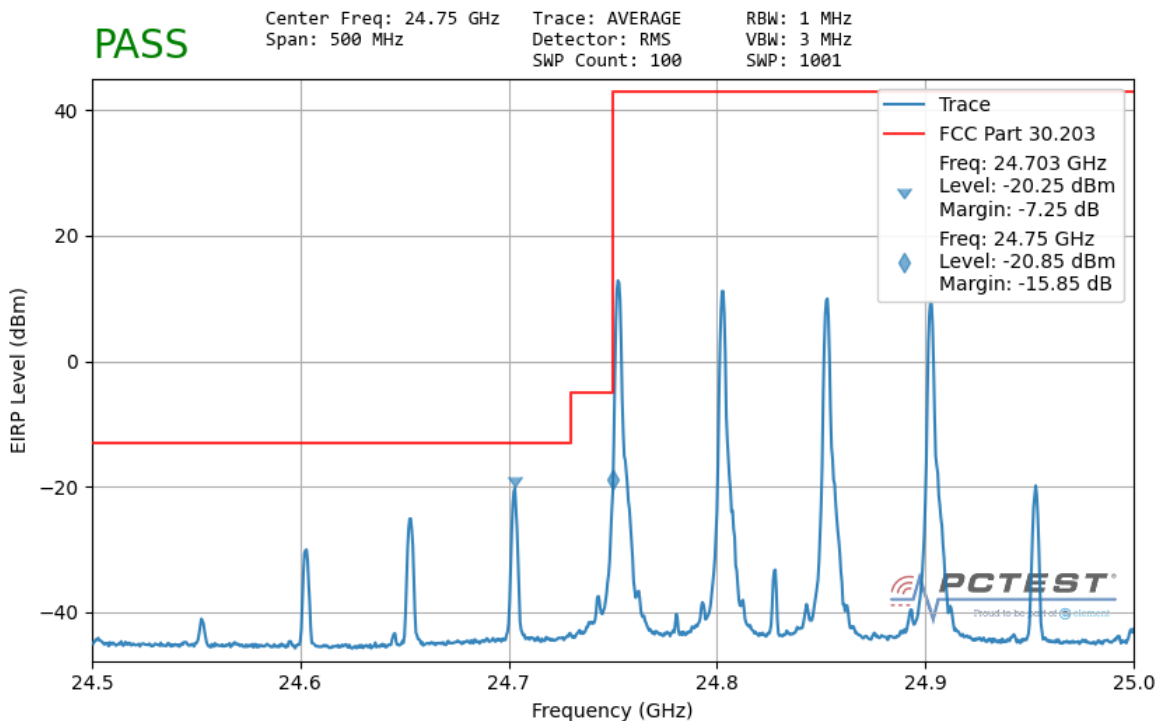


**Plot 7-108. Ant 1 Upper Band Edge TRP (100MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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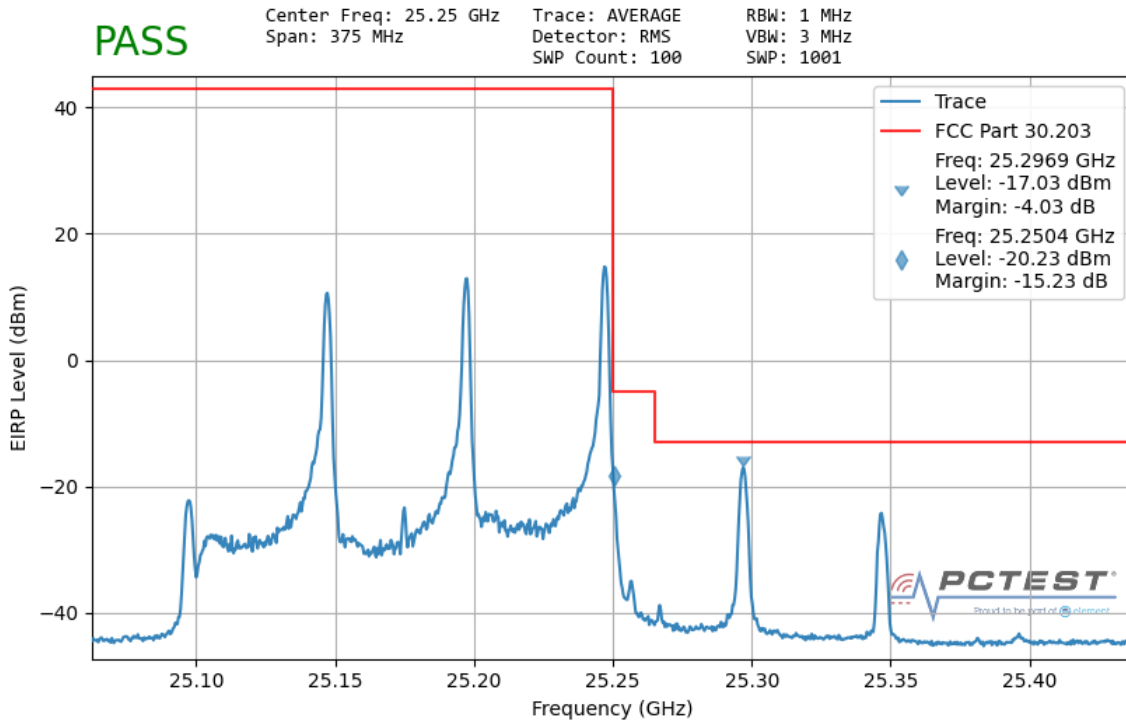


**Plot 7-109. Ant 2 Lower Band Edge (50MHz-3CC – QPSK 1 RB)**

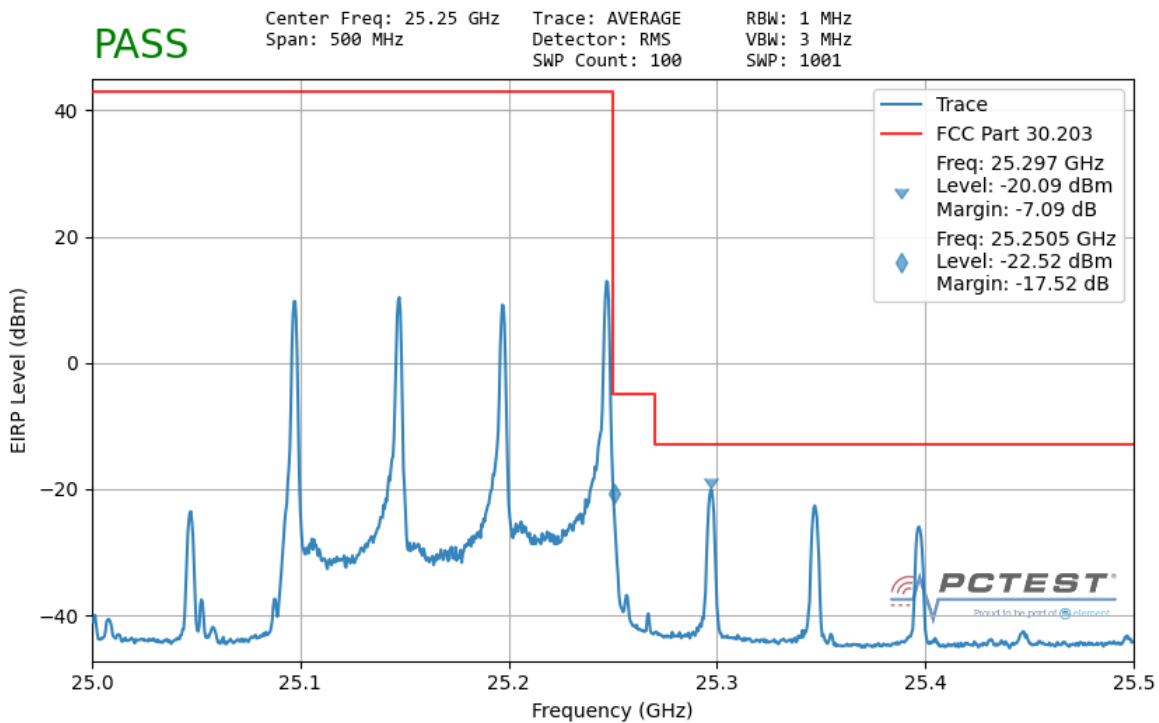


**Plot 7-110. Ant 2 Lower Band Edge (50MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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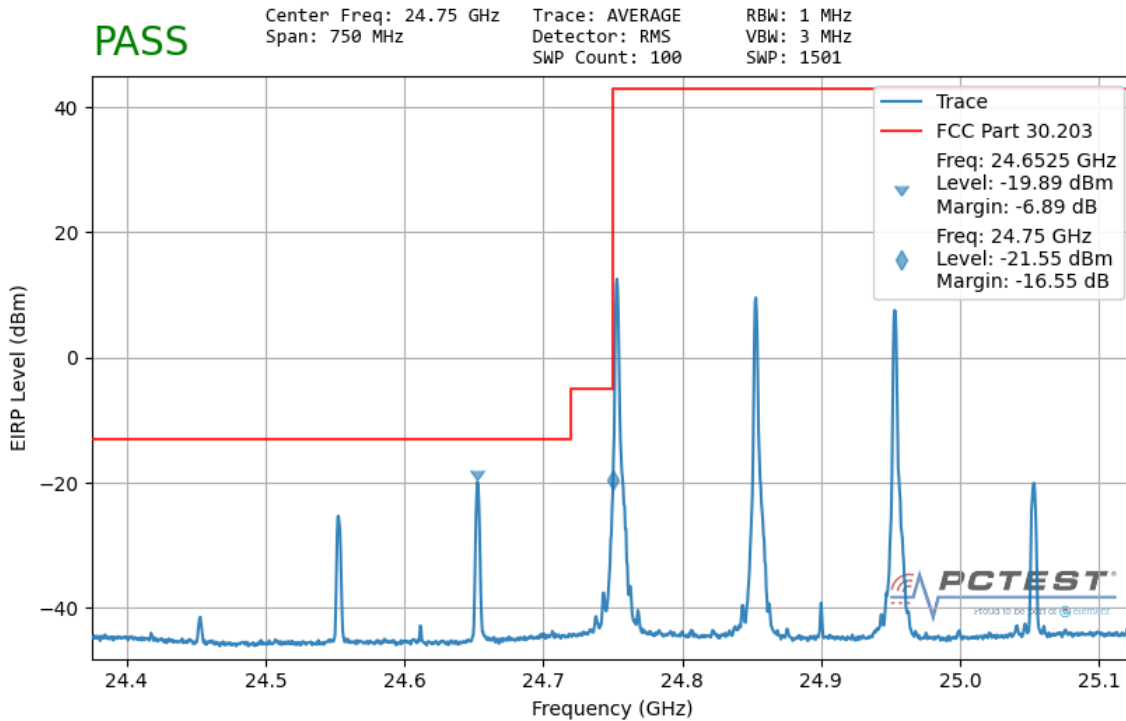


**Plot 7-111. Ant 2 Upper Band Edge (50MHz-3CC – QPSK 1 RB)**

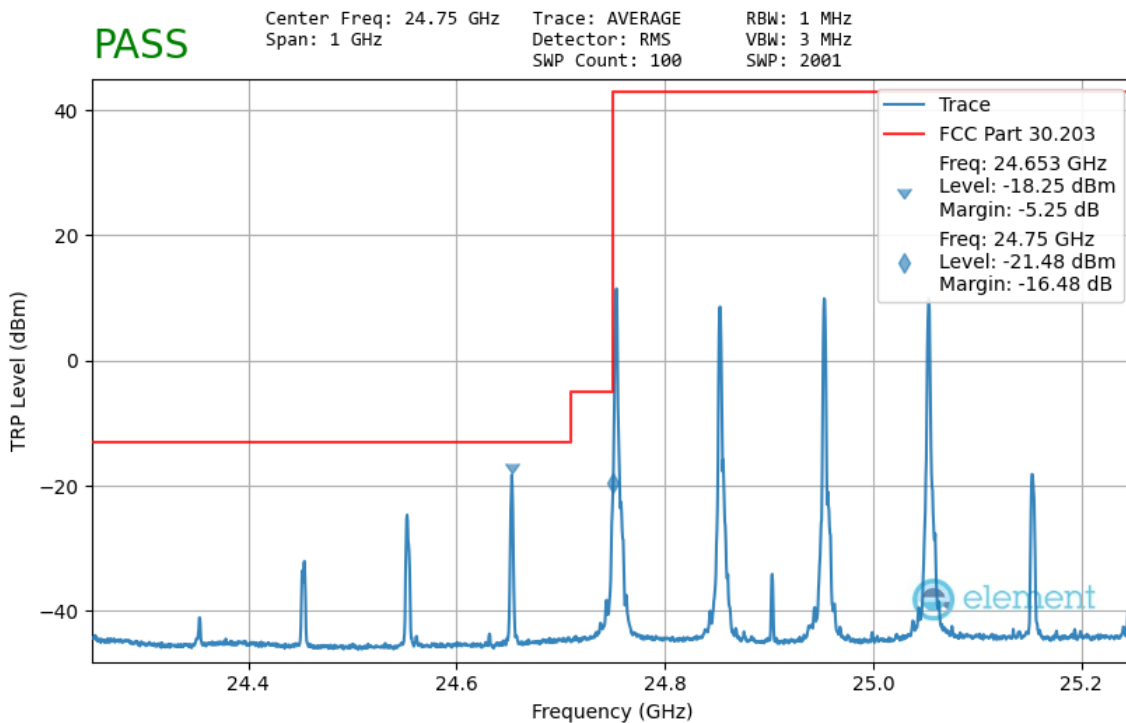


**Plot 7-112. Ant 2 Upper Band Edge (50MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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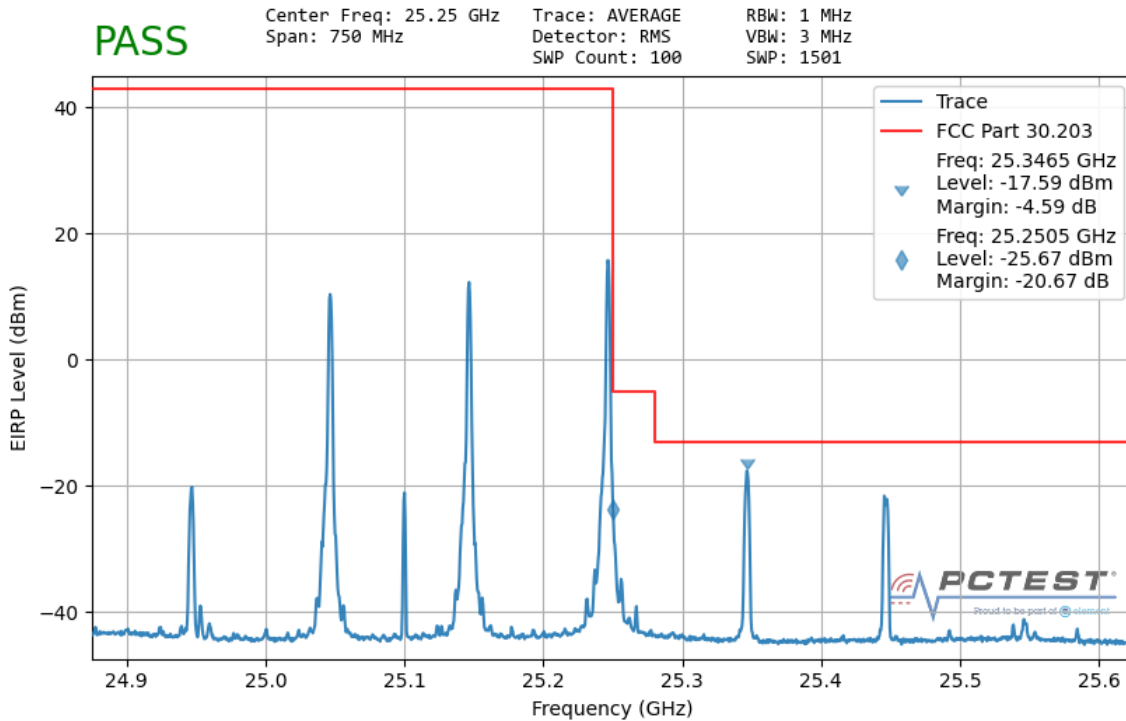


**Plot 7-113. Ant 2 Lower Band Edge (100MHz-3CC – QPSK 1 RB)**

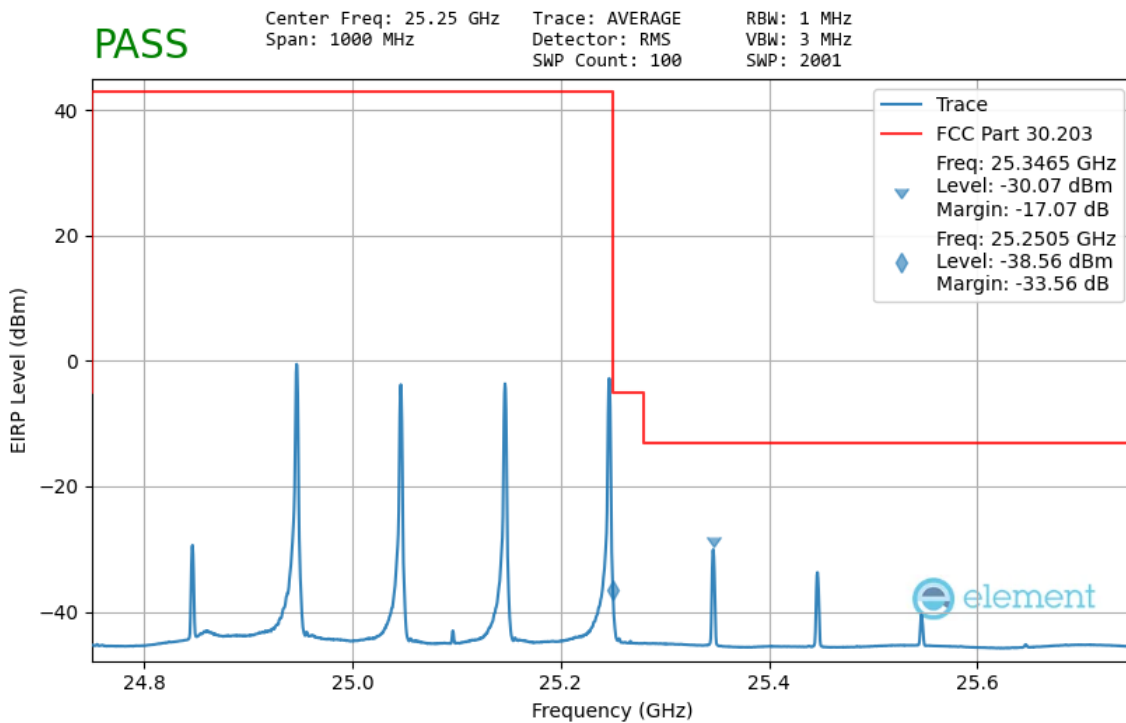


**Plot 7-114. Ant 2 Lower Band Edge TRP (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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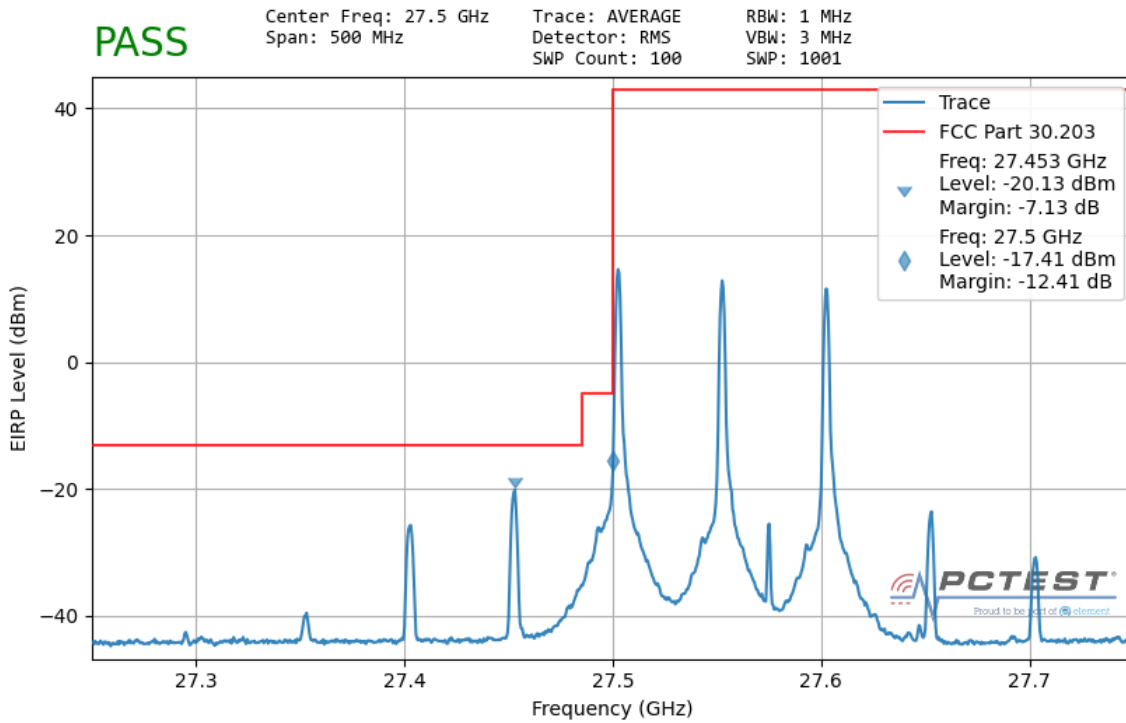
**Plot 7-115. Ant 2 Upper Band Edge (100MHz-3CC – QPSK 1 RB)**



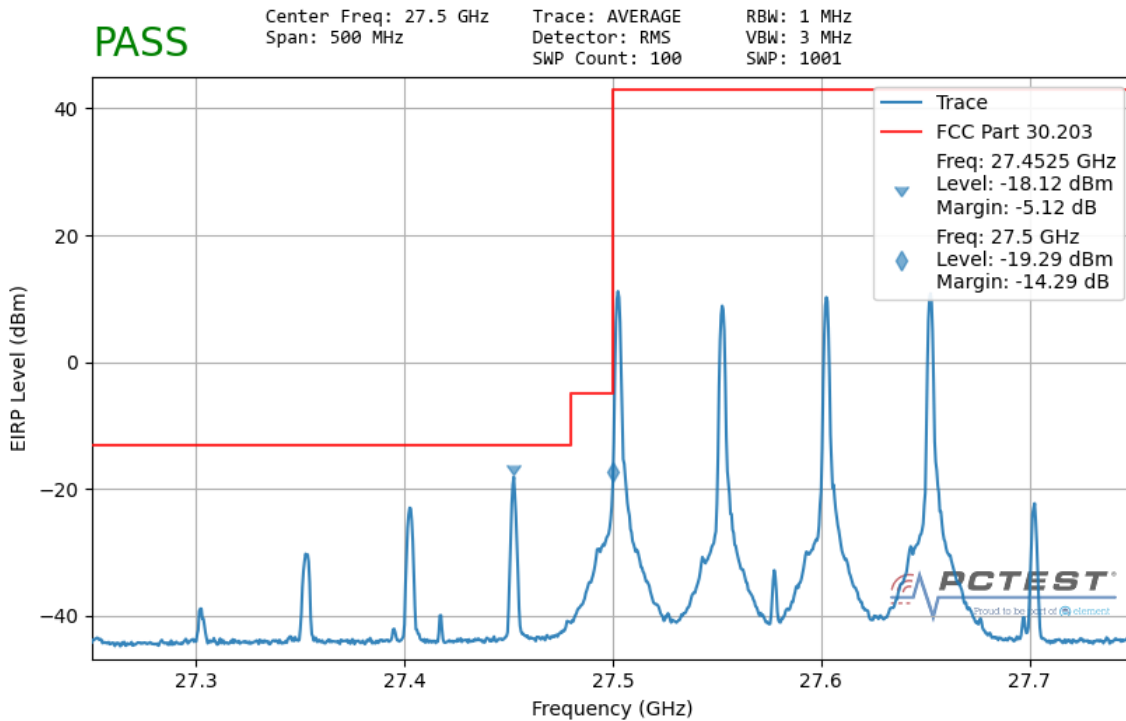
**Plot 7-116. Ant 2 Upper Band Edge (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
Test Report S/N: 1M2203290040-01.A3L	Test Dates: 07/11/2022 – 08/29/2022	EUT Type: Portable Handset	Page 100 of 141

### Band n261 – Worst-Case

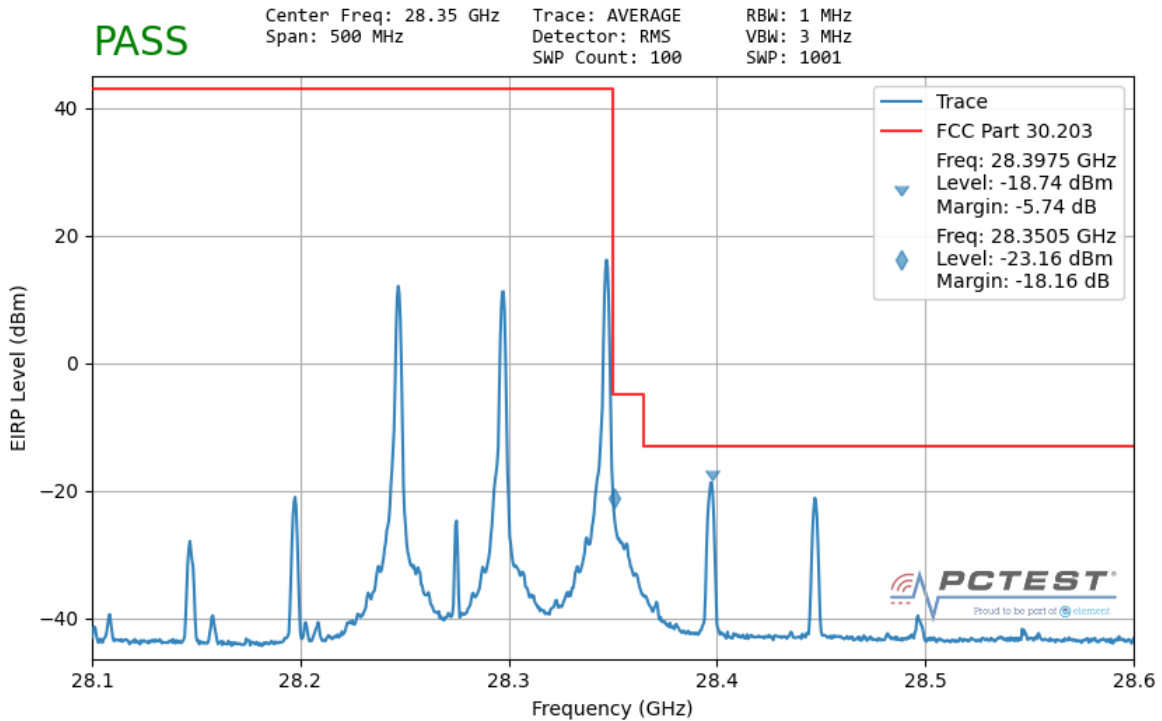


**Plot 7-117. Ant 1 Lower Band Edge (50MHz-3CC – QPSK 1 RB)**

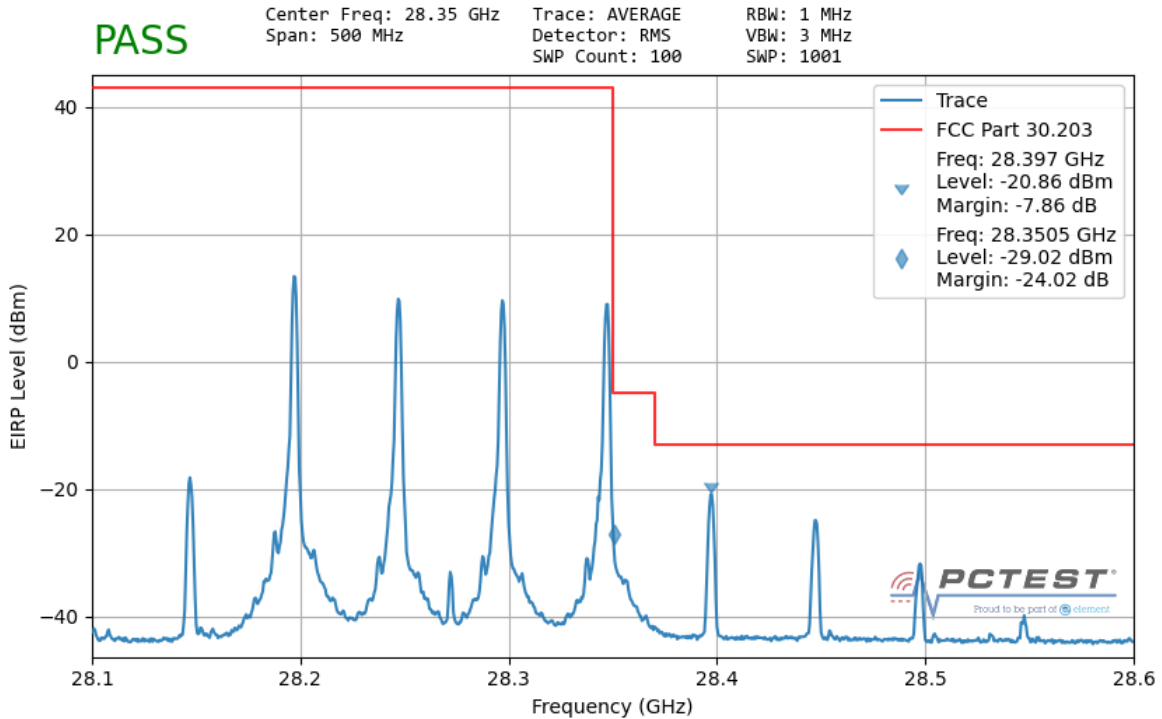


**Plot 7-118. Ant 1 Lower Band Edge (50MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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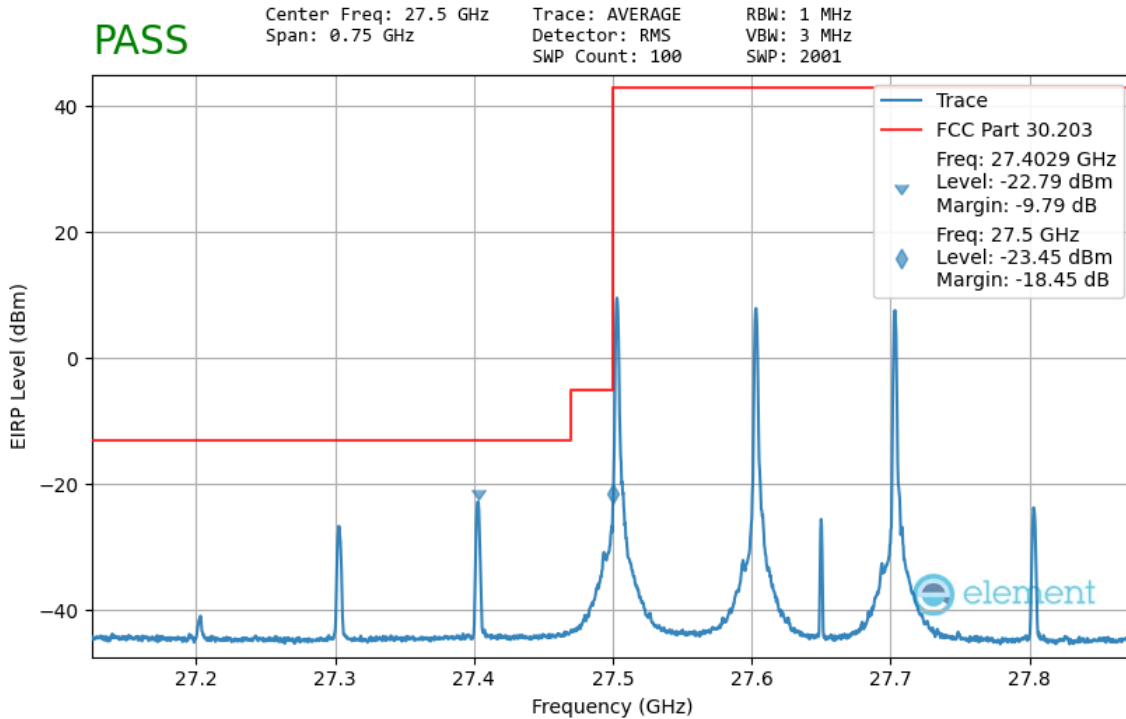


**Plot 7-119. Ant 1 Upper Band Edge (50MHz-3CC – QPSK 1 RB)**

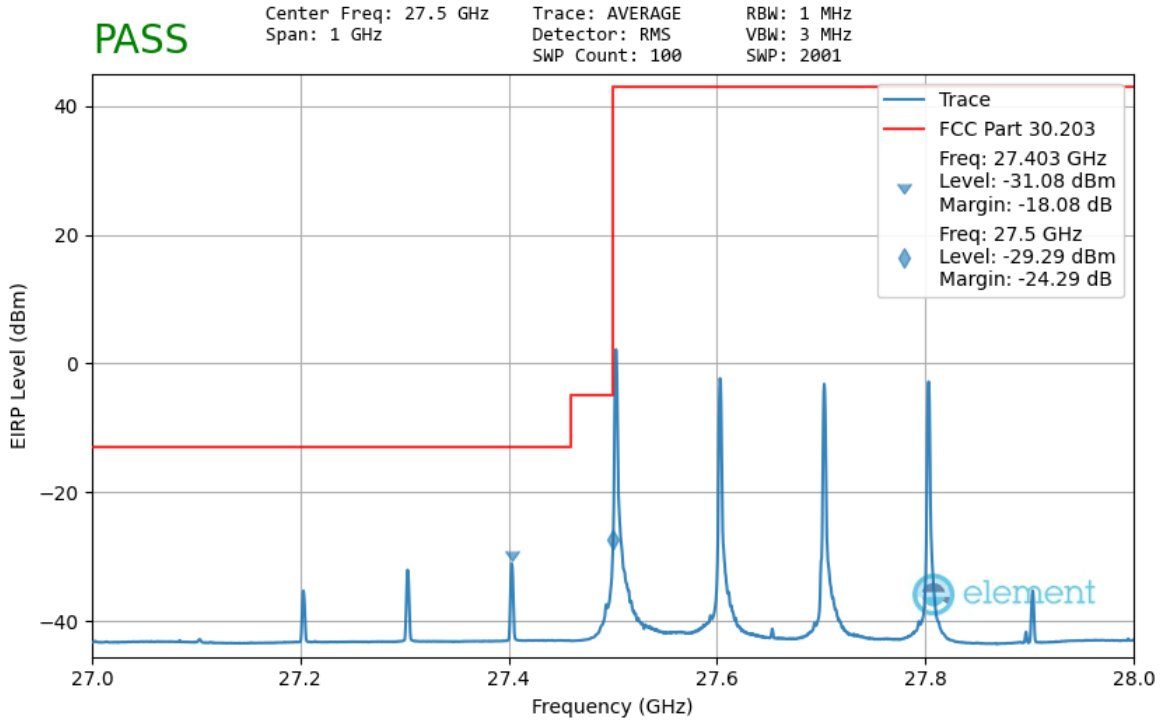


**Plot 7-120. Ant 1 Upper Band Edge (50MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
Test Report S/N: 1M2203290040-01.A3L	Test Dates: 07/11/2022 – 08/29/2022	EUT Type: Portable Handset	Page 102 of 141



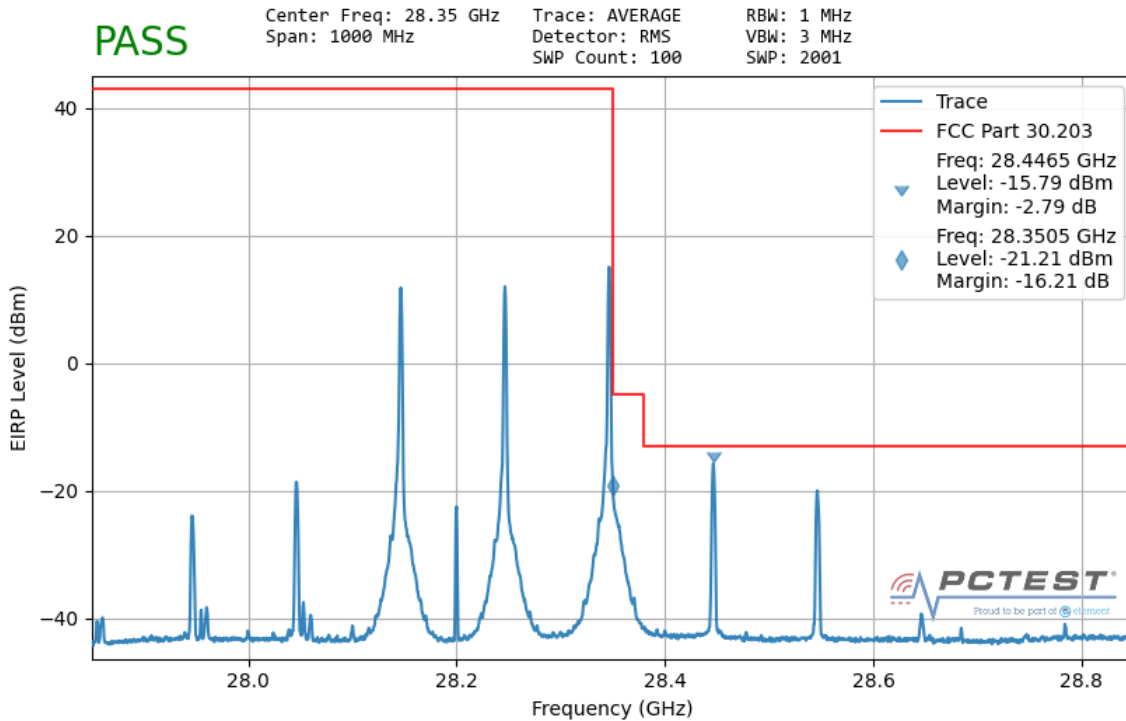
**Plot 7-121. Ant 1 Lower Band Edge (100MHz-3CC – QPSK 1 RB)**



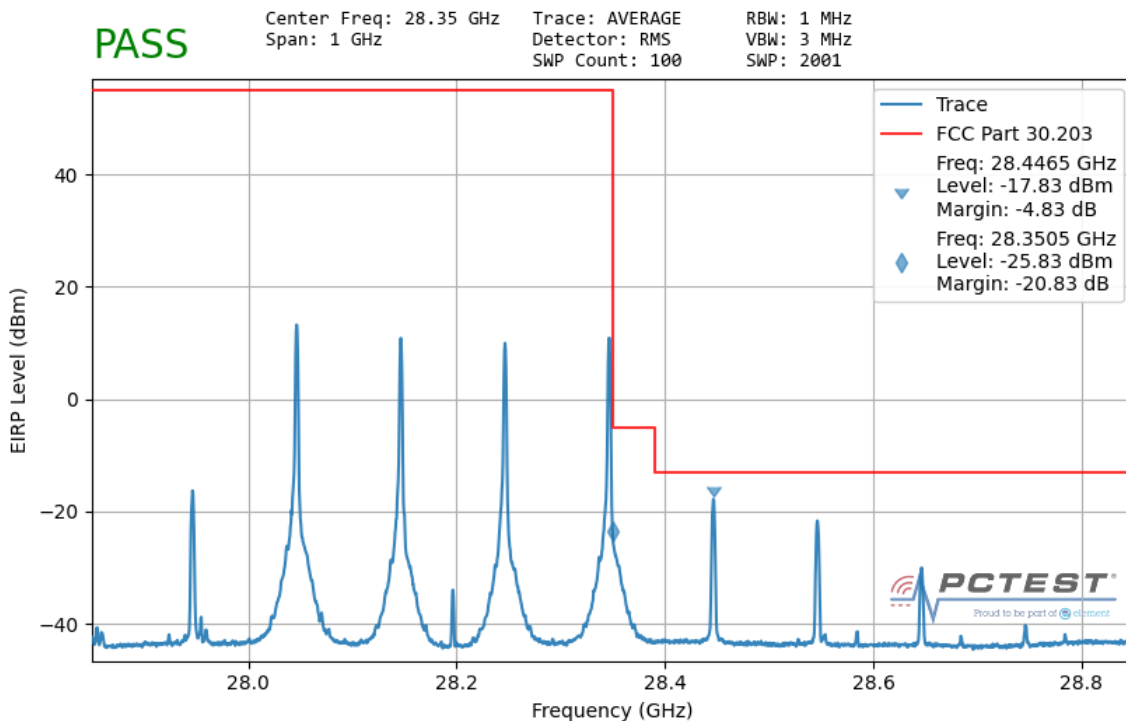
**Plot 7-122. Ant 1 Lower Band Edge TRP (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
Test Report S/N: 1M2203290040-01.A3L	Test Dates: 07/11/2022 – 08/29/2022	EUT Type: Portable Handset	Page 103 of 141



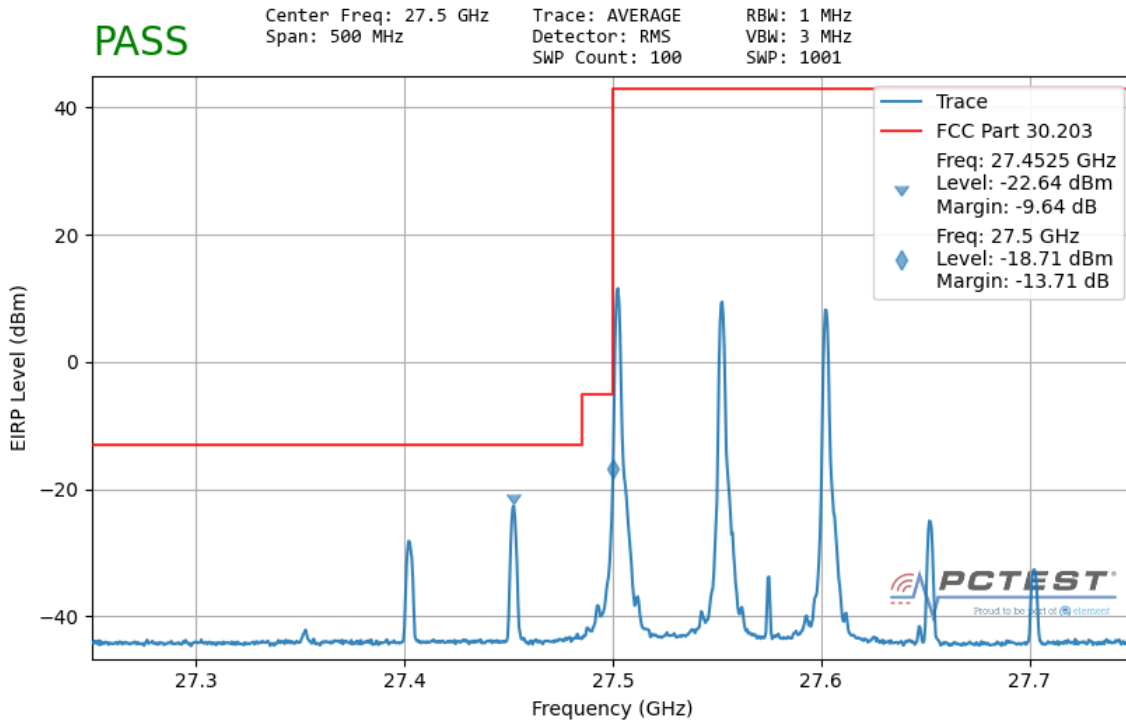


**Plot 7-123. Ant 1 Upper Band Edge (100MHz-3CC –  $\pi/2$ -BPSK 1 RB)**

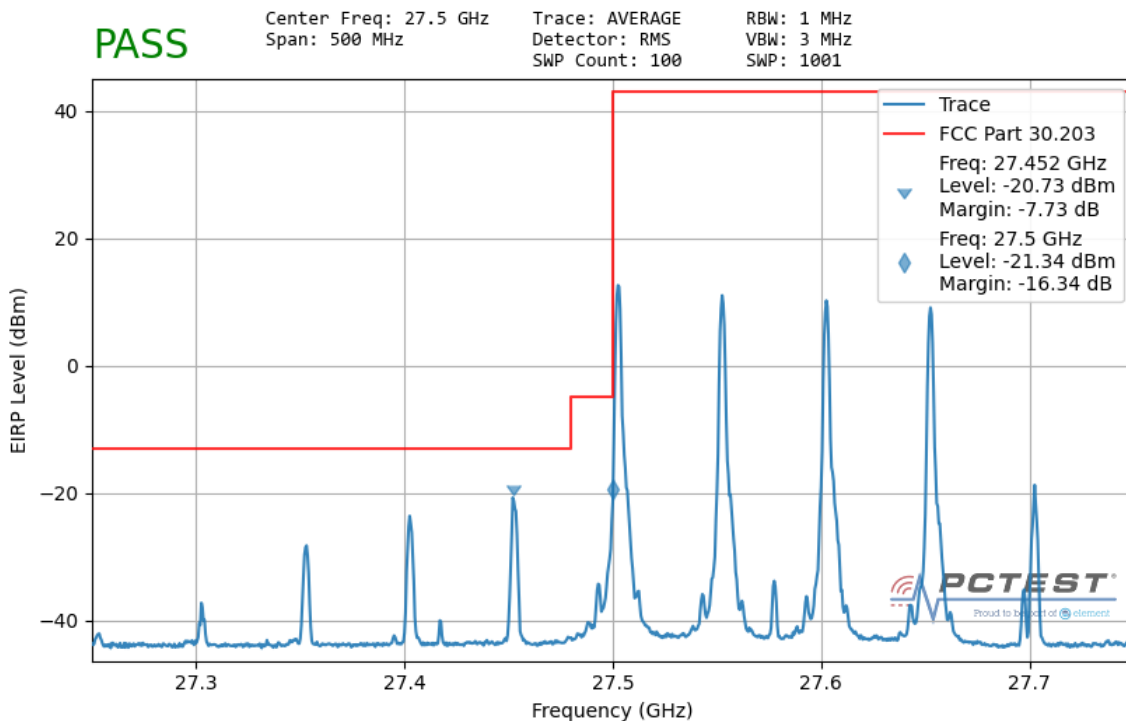


**Plot 7-124. Ant 1 Upper Band Edge (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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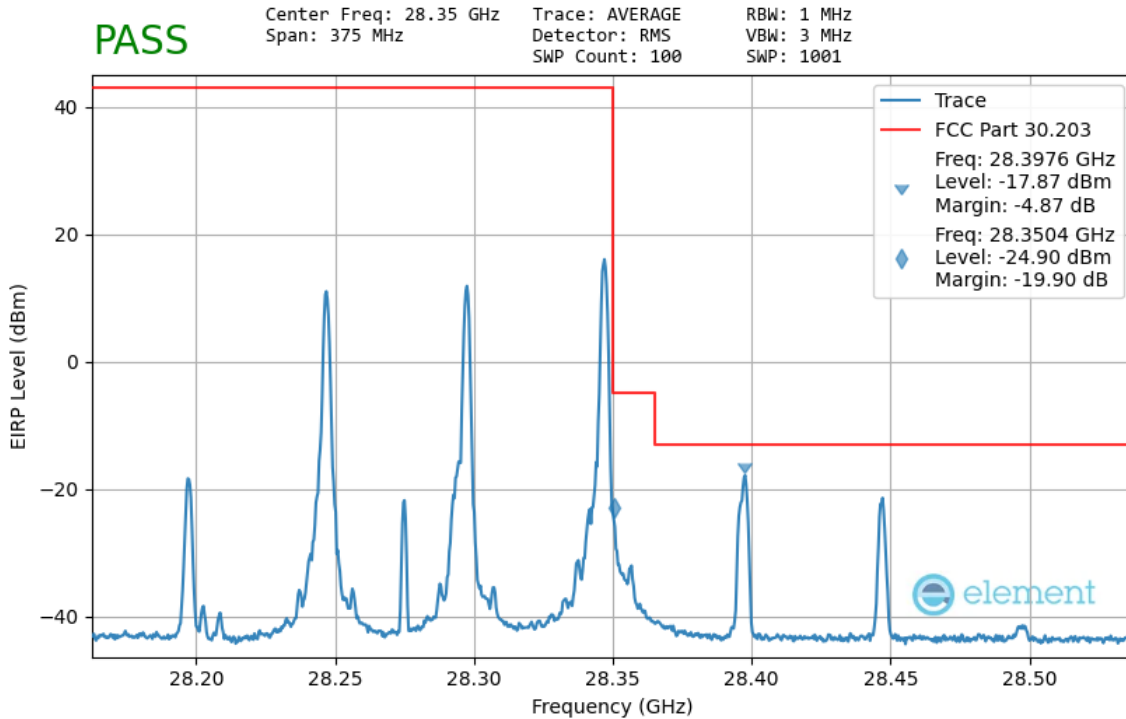


**Plot 7-125. Ant 2 Lower Band Edge (50MHz-3CC – QPSK 1 RB)**

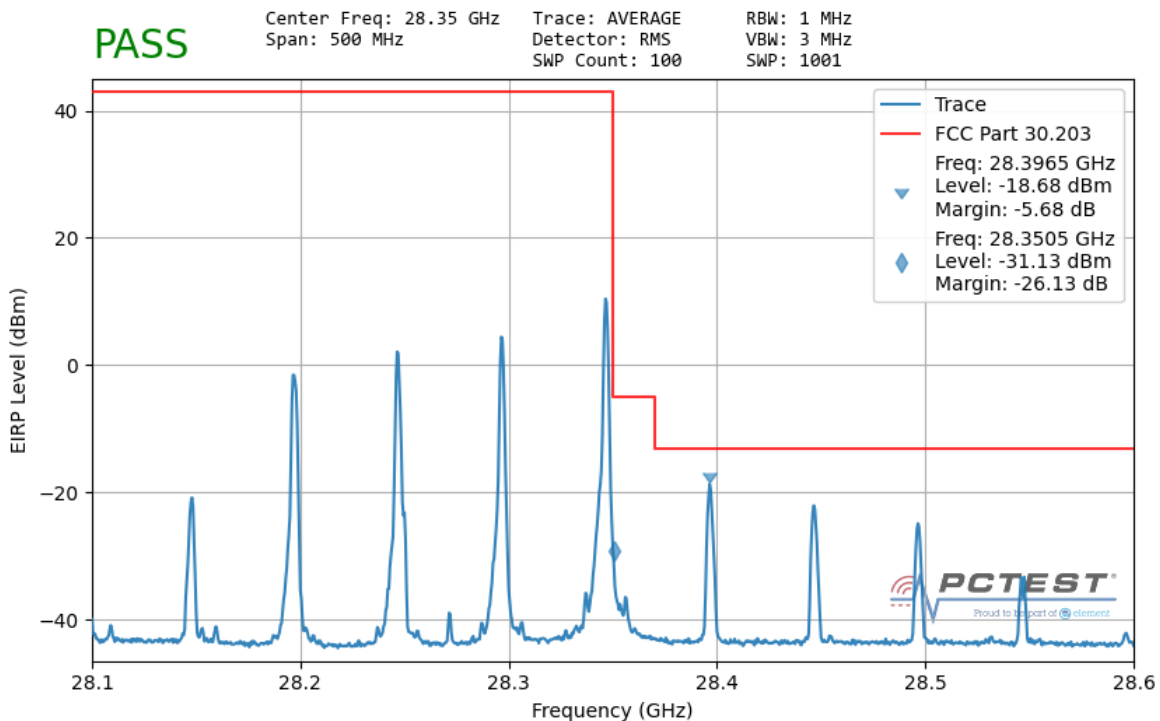


**Plot 7-126. Ant 2 Lower Band Edge (50MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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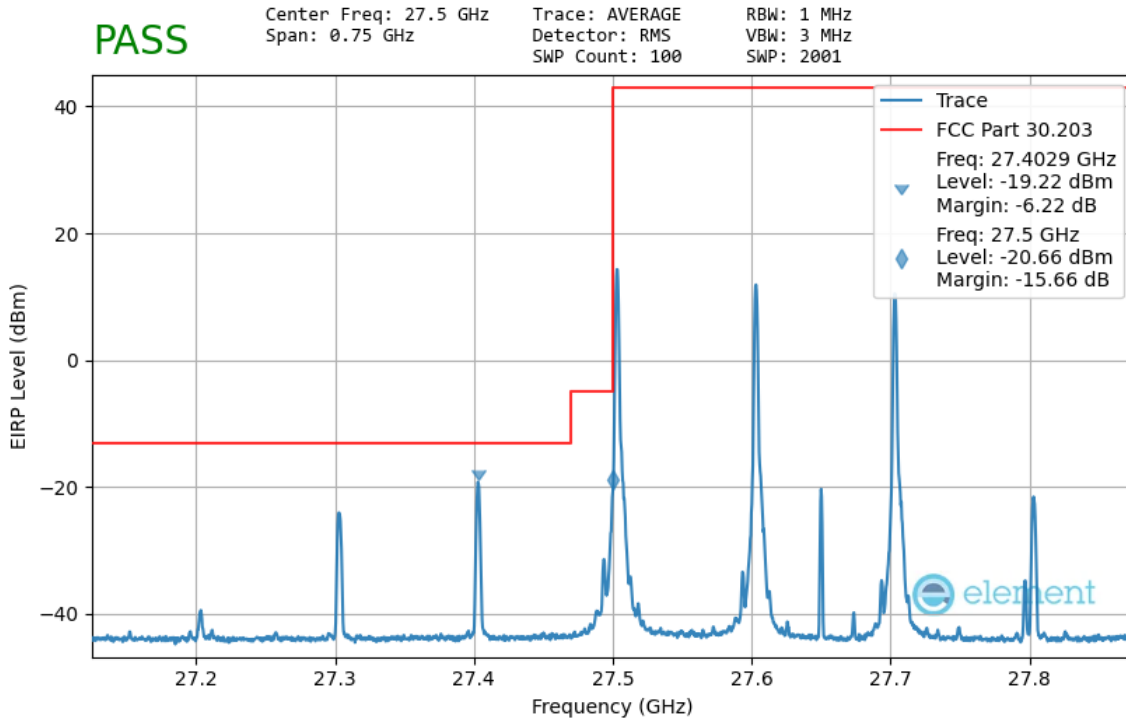


**Plot 7-127. Ant 2 Upper Band Edge (50MHz-3CC – QPSK 1 RB)**

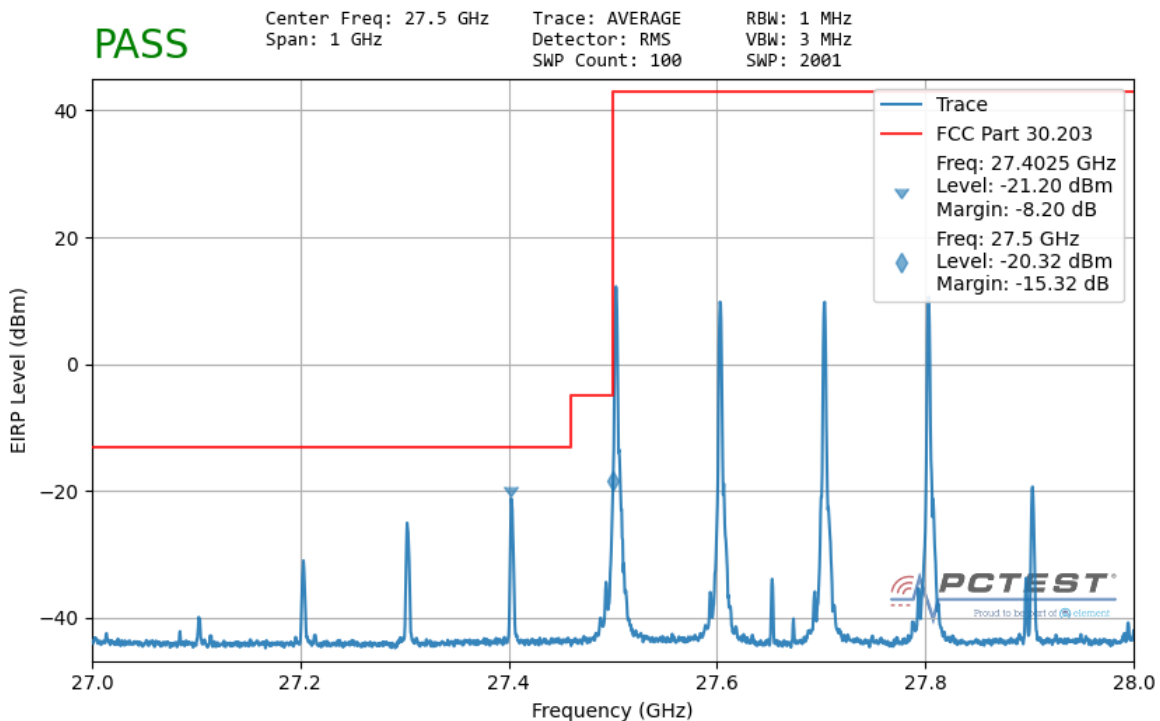


**Plot 7-128. Ant 2 Upper Band Edge (50MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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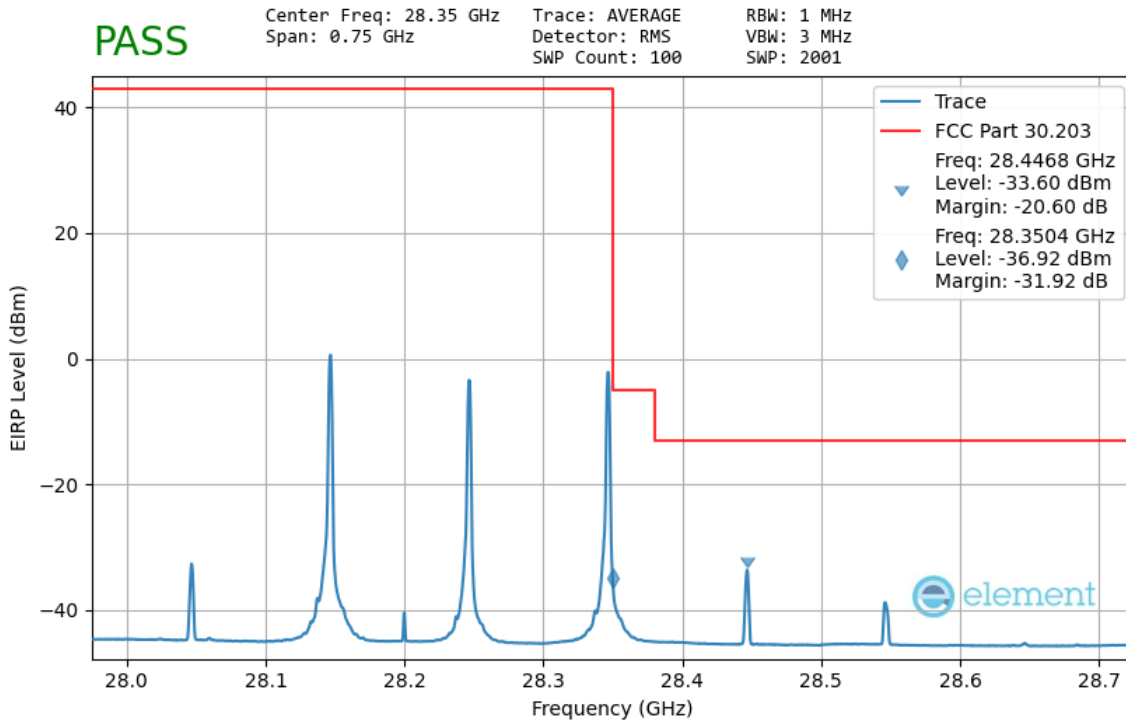


**Plot 7-129. Ant 2 Lower Band Edge (100MHz-3CC – QPSK 1 RB)**

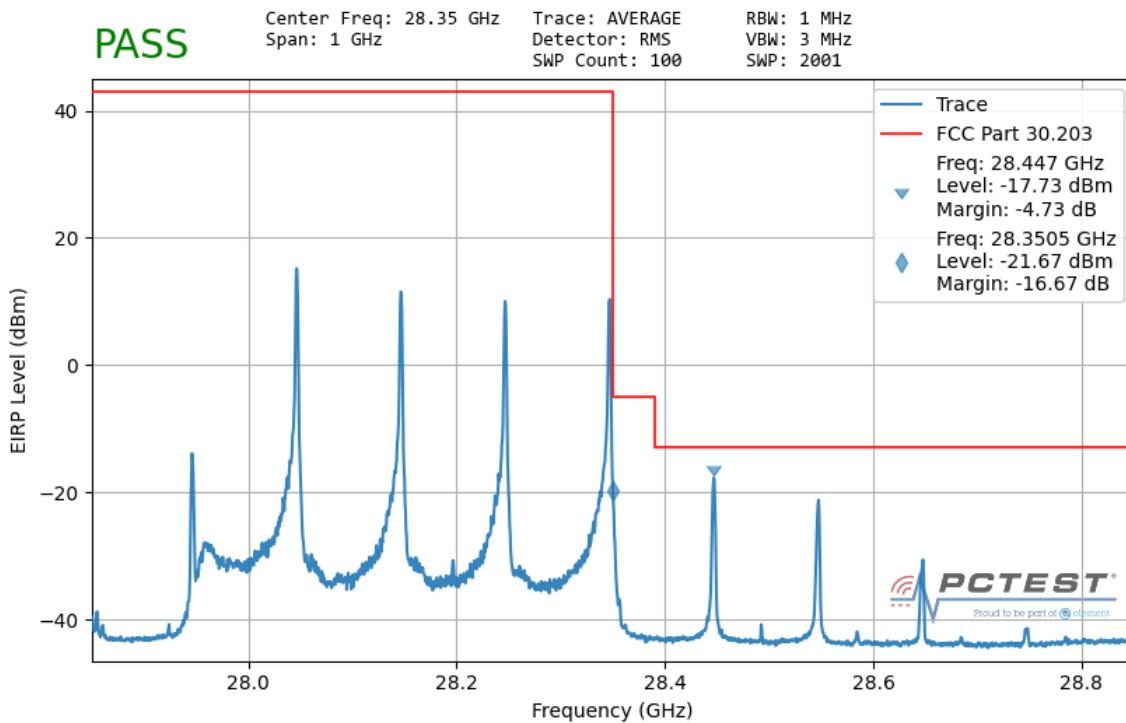


**Plot 7-130. Ant 2 Lower Band Edge (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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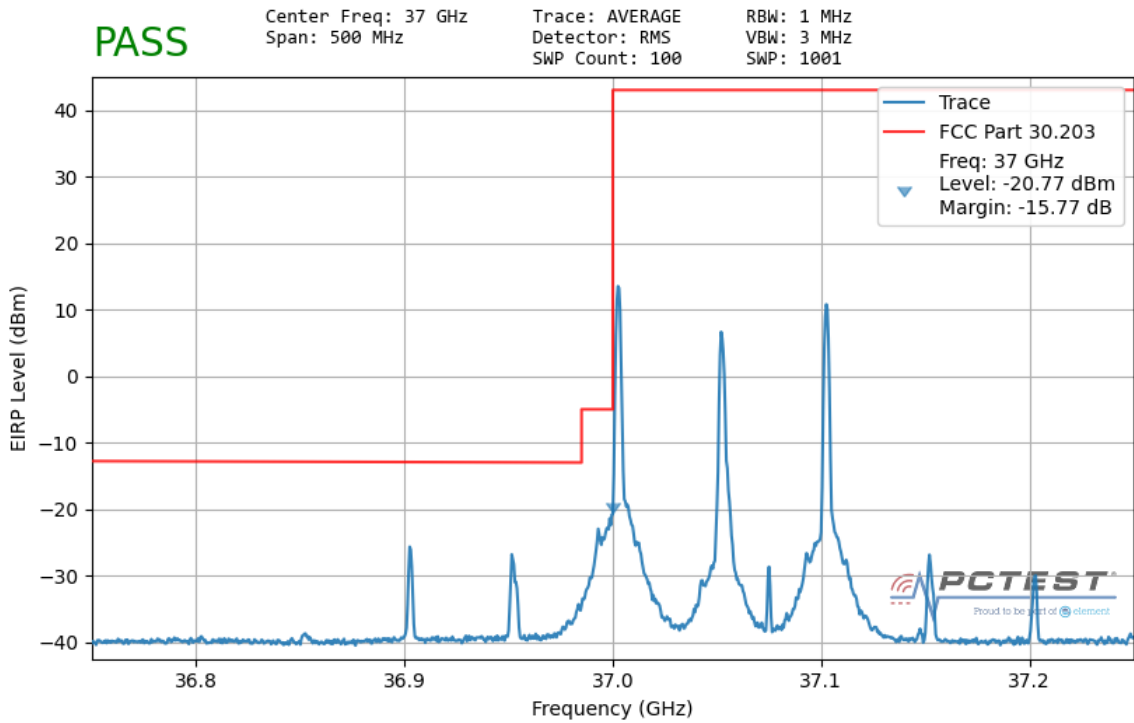
**Plot 7-131. Ant 2 Upper Band Edge (100MHz-3CC – QPSK 1 RB)**



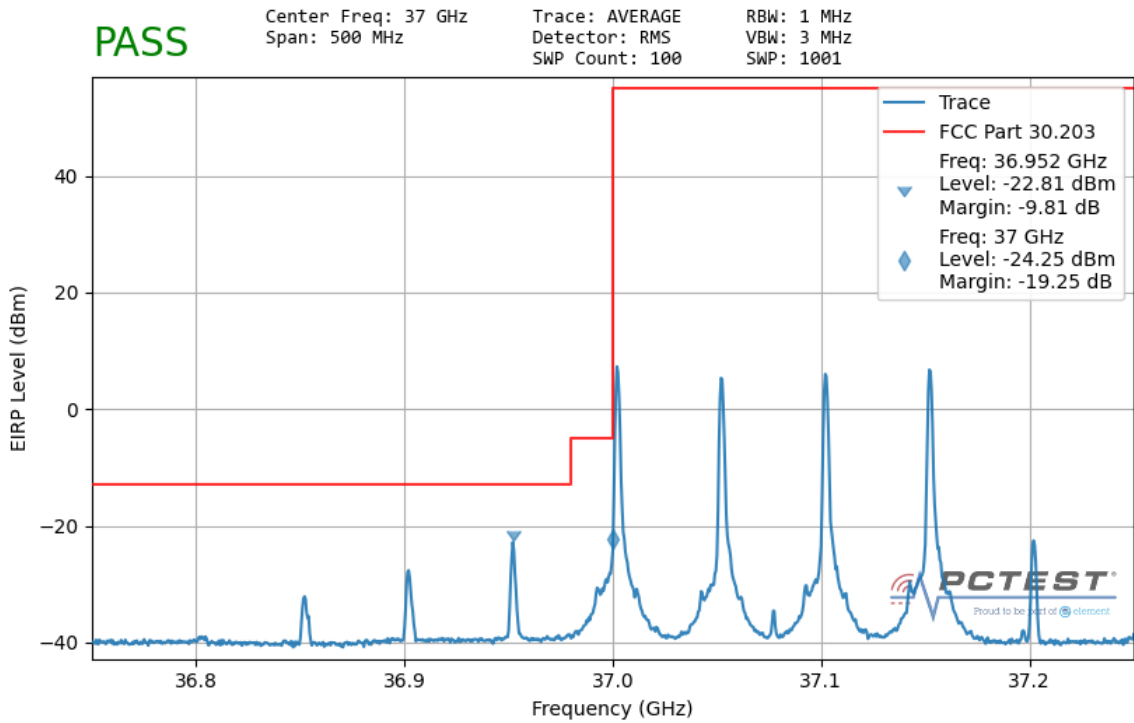
**Plot 7-132. Ant 2 Upper Band Edge (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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### Band n260 – Worst Case

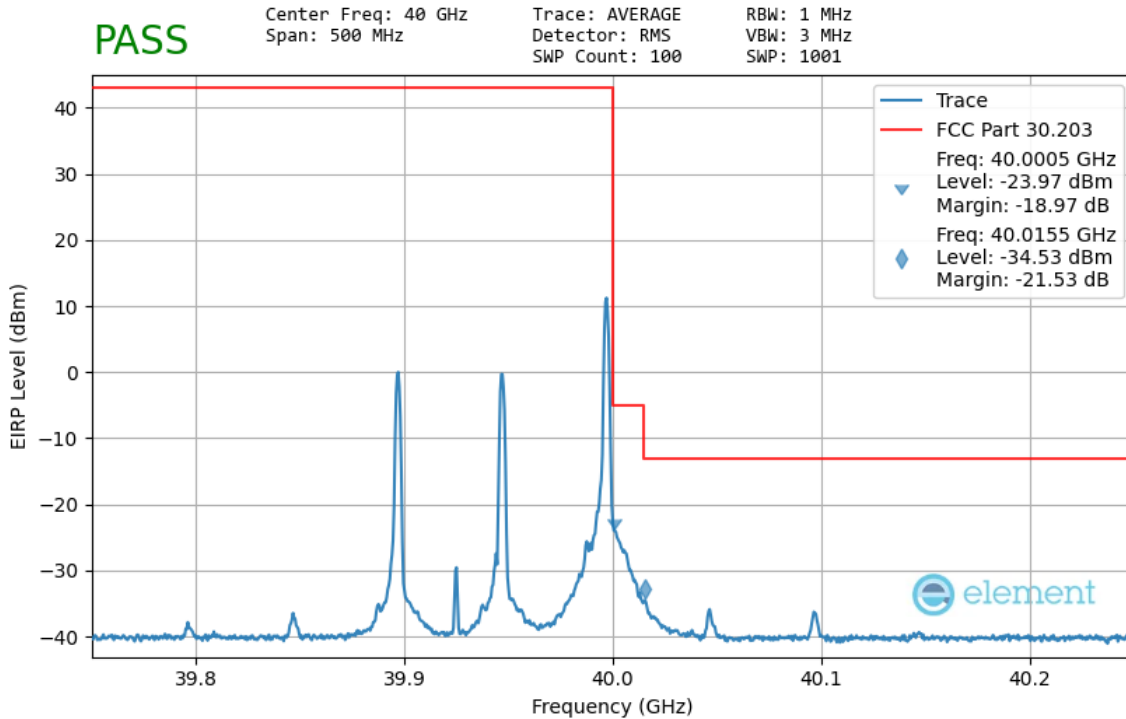


**Plot 7-133. Ant 1 Lower Band Edge (50MHz-3CC QPSK 1 RB)**

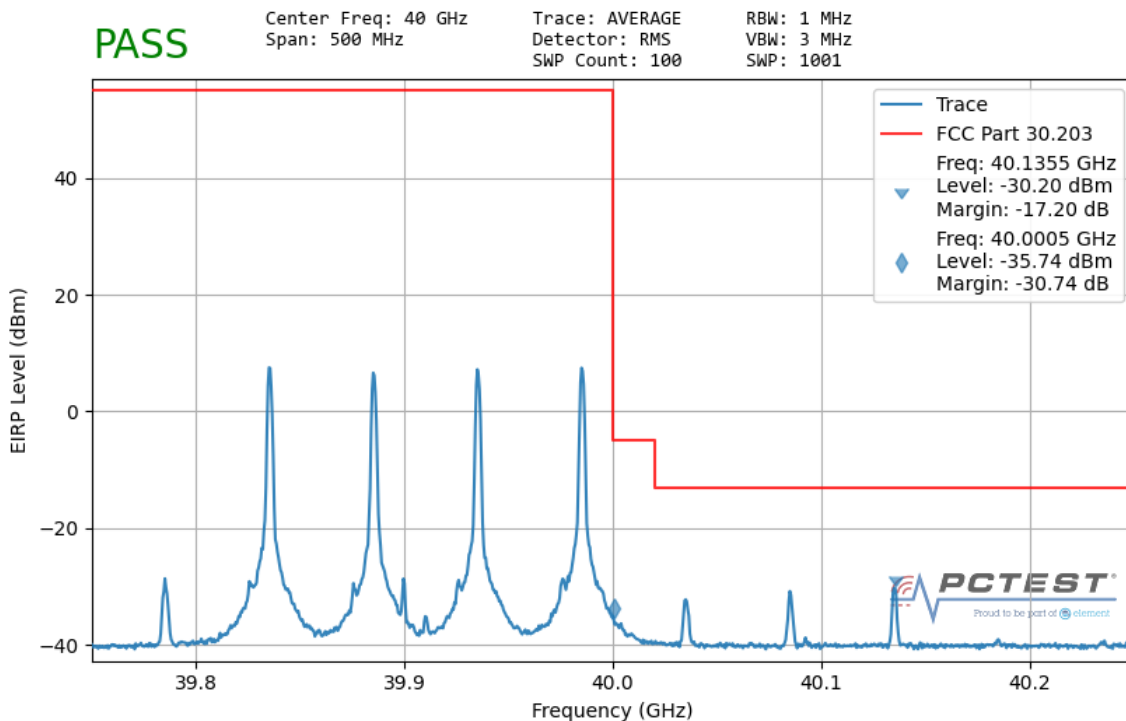


**Plot 7-134. Ant 1 Lower Band Edge (50MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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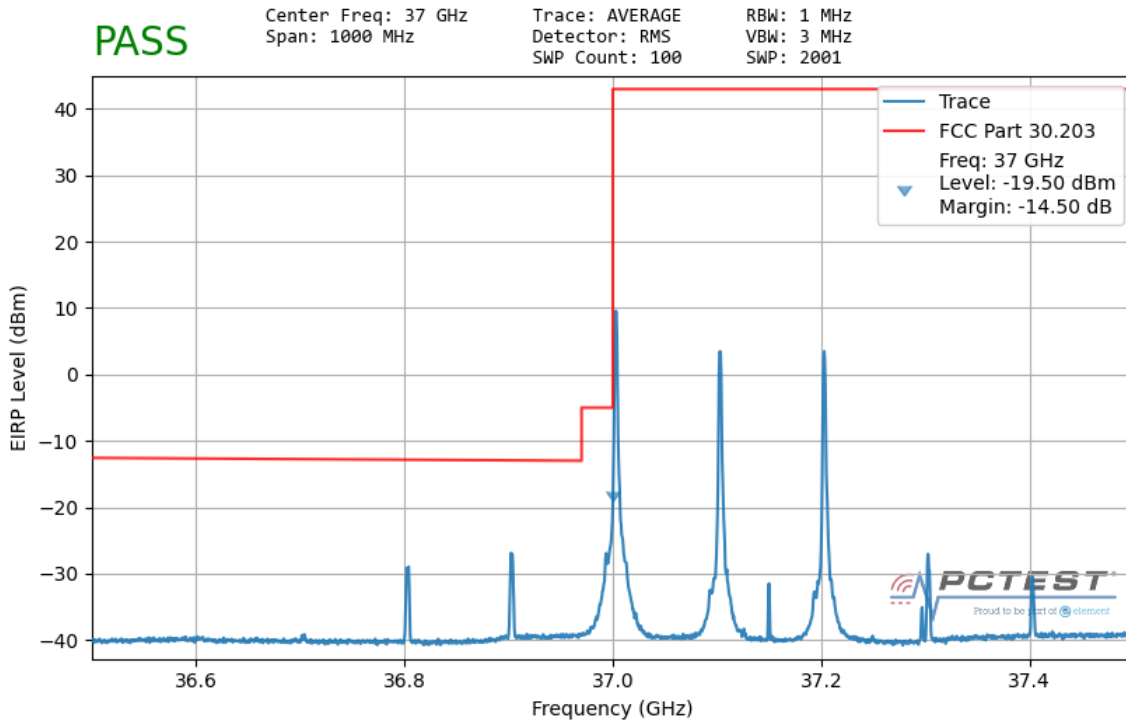


**Plot 7-135. Ant 1 Upper Band Edge (50MHz-3CC – QPSK 1 RB)**

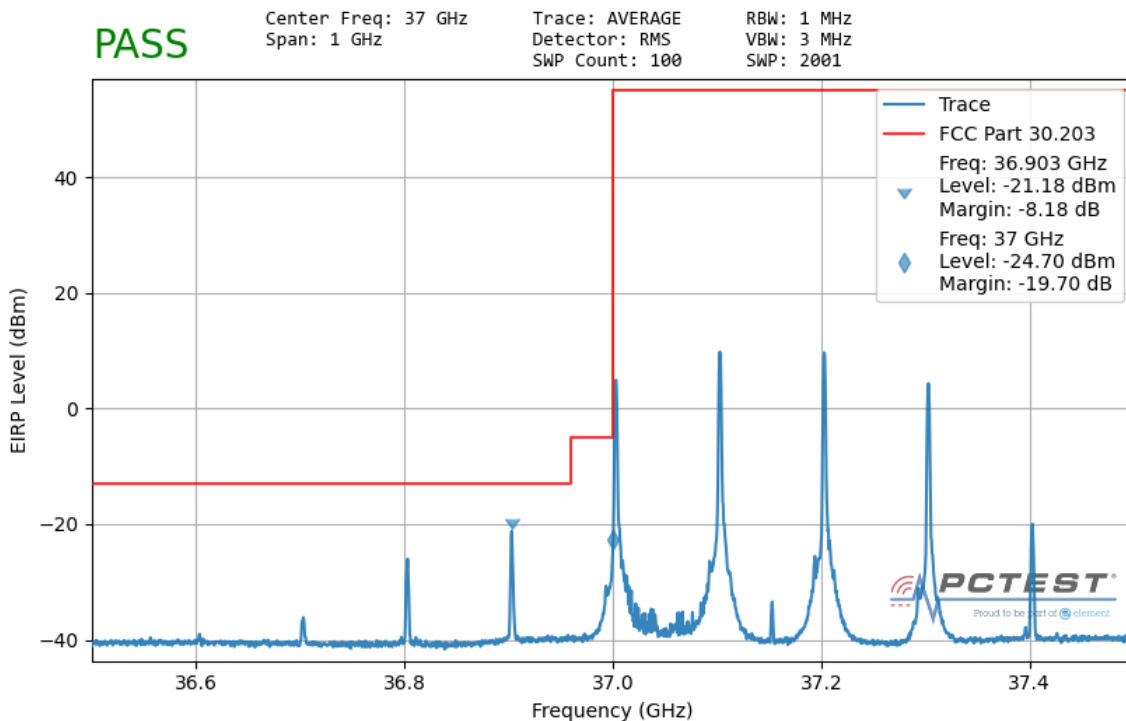


**Plot 7-136. Ant 1 Upper Band Edge (50MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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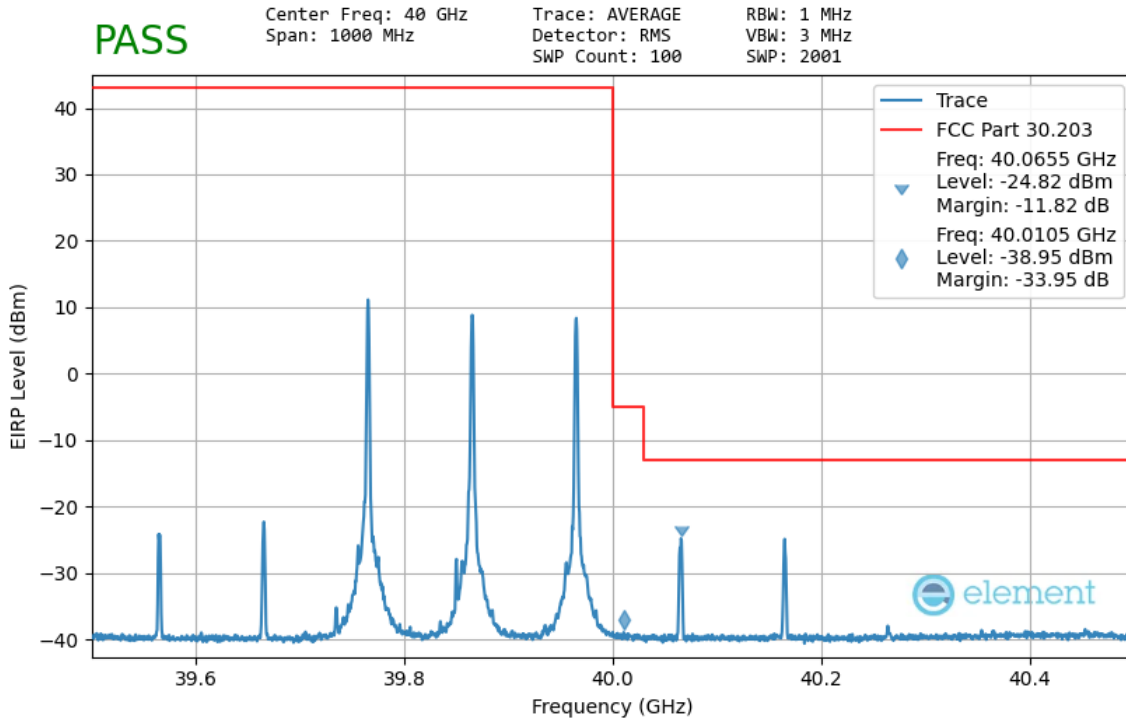
**Plot 7-137. Ant 1 Lower Band Edge (100MHz-3CC – QPSK 1 RB)**



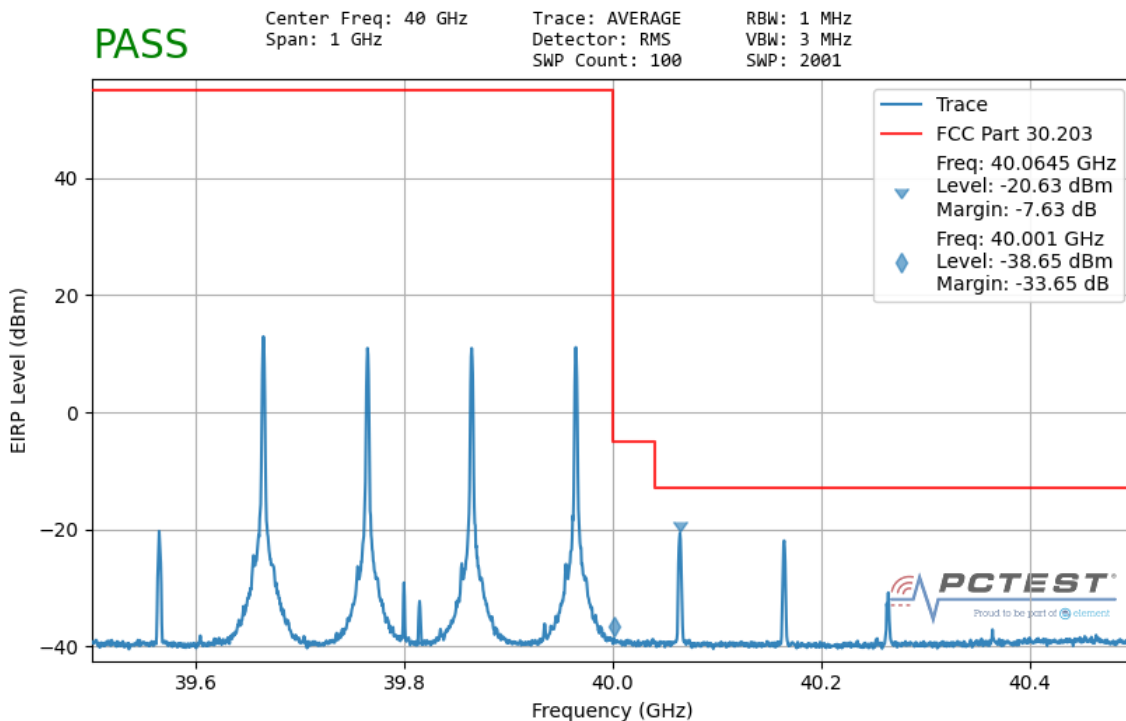
**Plot 7-138. Ant 1 Lower Band Edge (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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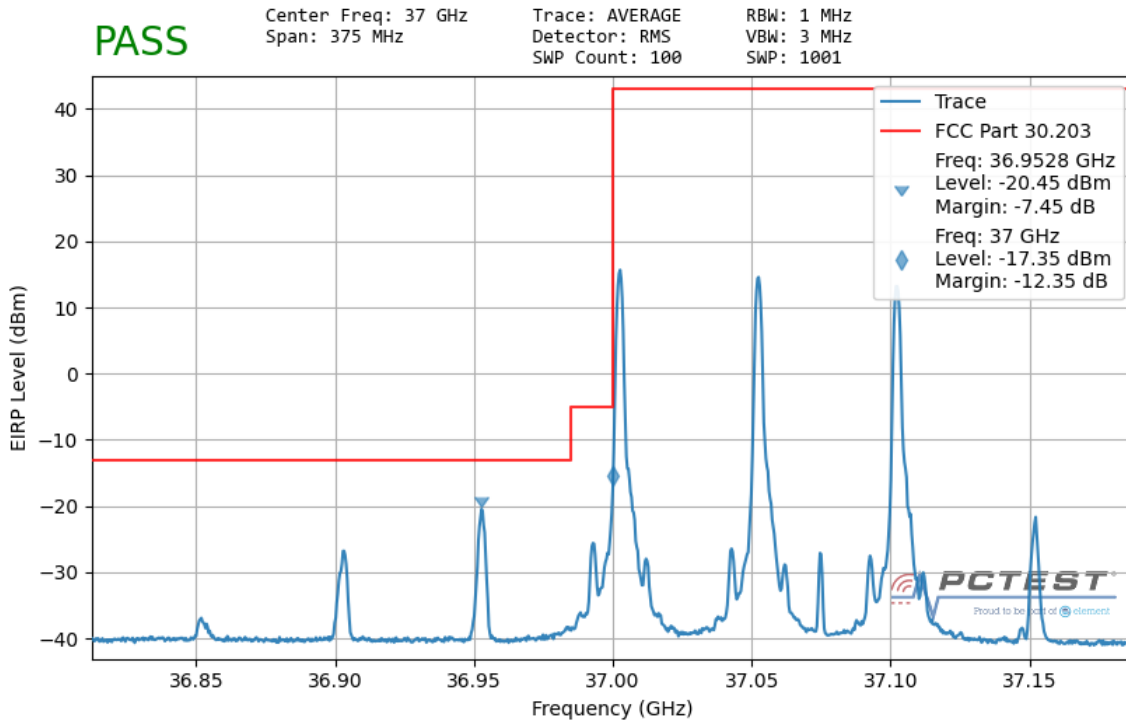


**Plot 7-139. Ant 1 Upper Band Edge (100MHz-3CC – QPSK 1 RB)**

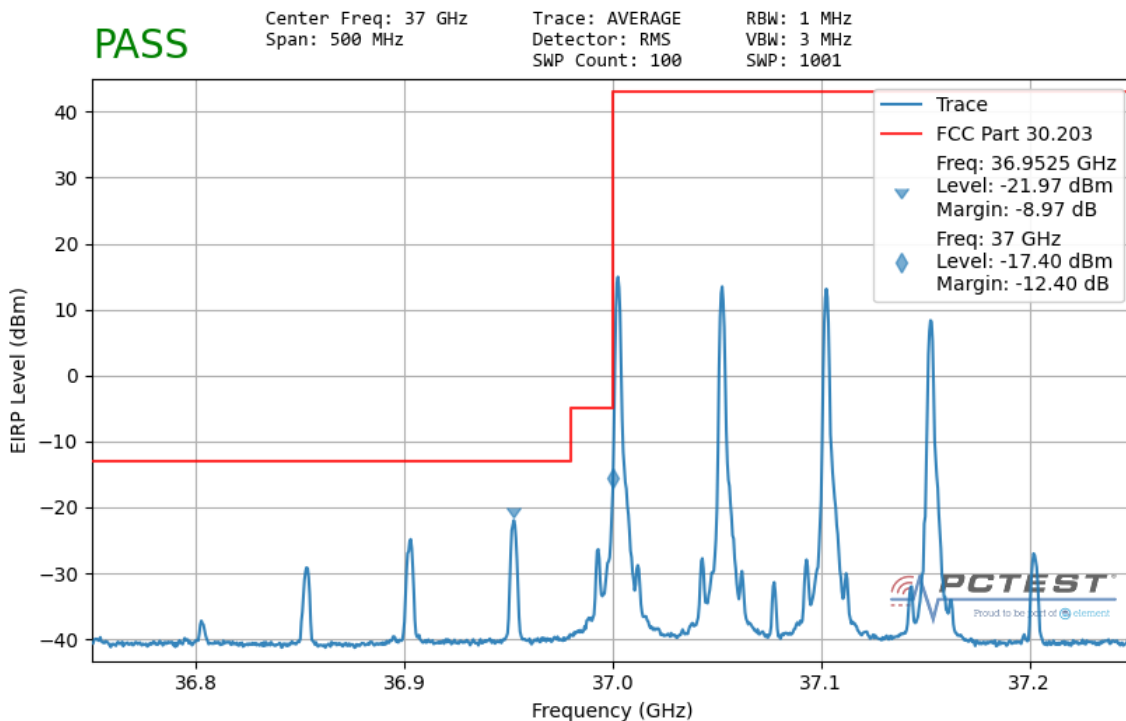


**Plot 7-140. Ant 1 Upper Band Edge (100MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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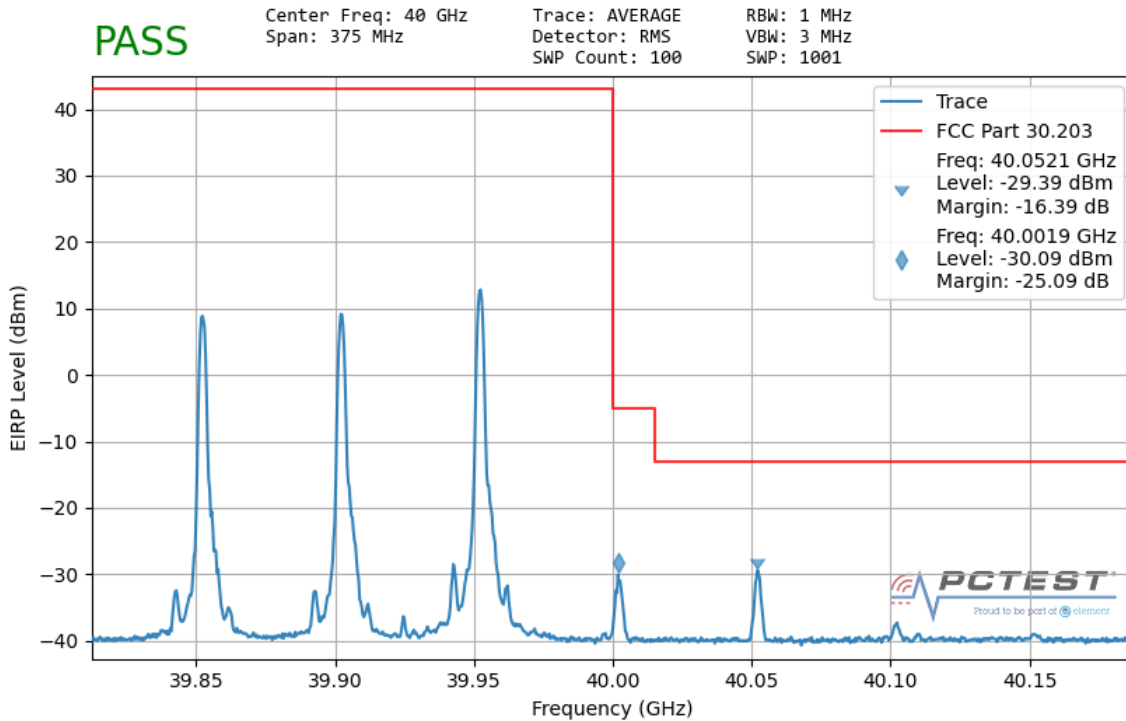


**Plot 7-141. Ant 2 Lower Band Edge (50MHz-3CC – QPSK 1 RB)**

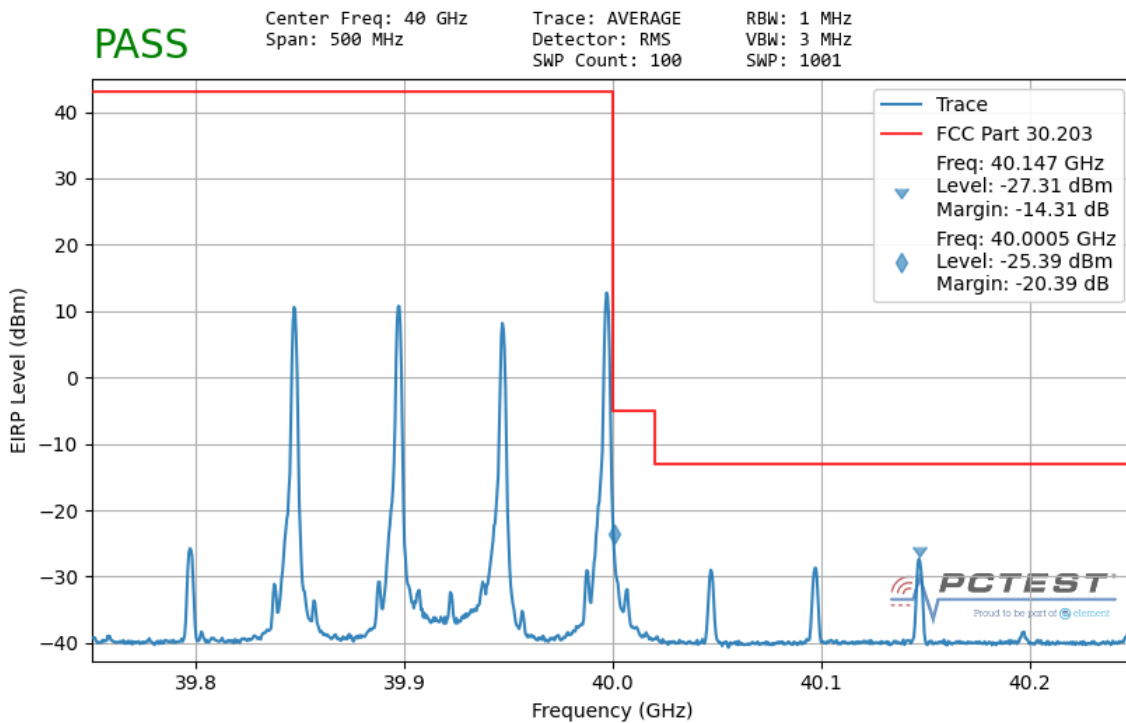


**Plot 7-142. Ant 2 Lower Band Edge (50MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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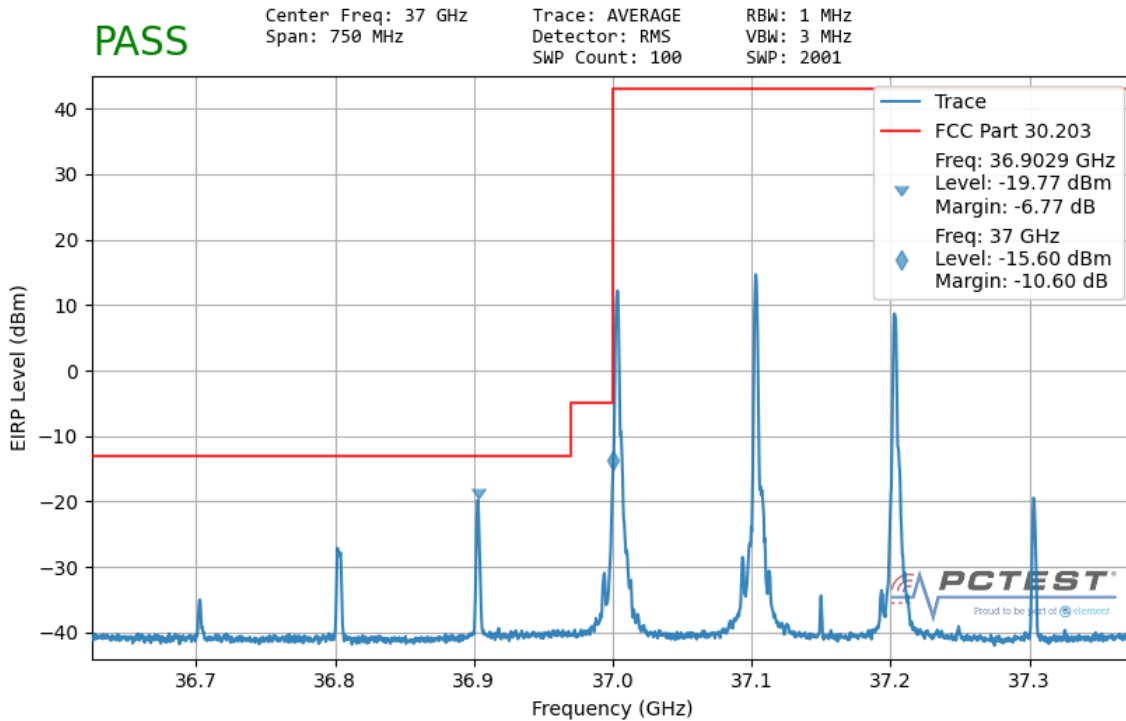


**Plot 7-143. Ant 2 Upper Band Edge (50MHz-3CC – QPSK 1 RB)**

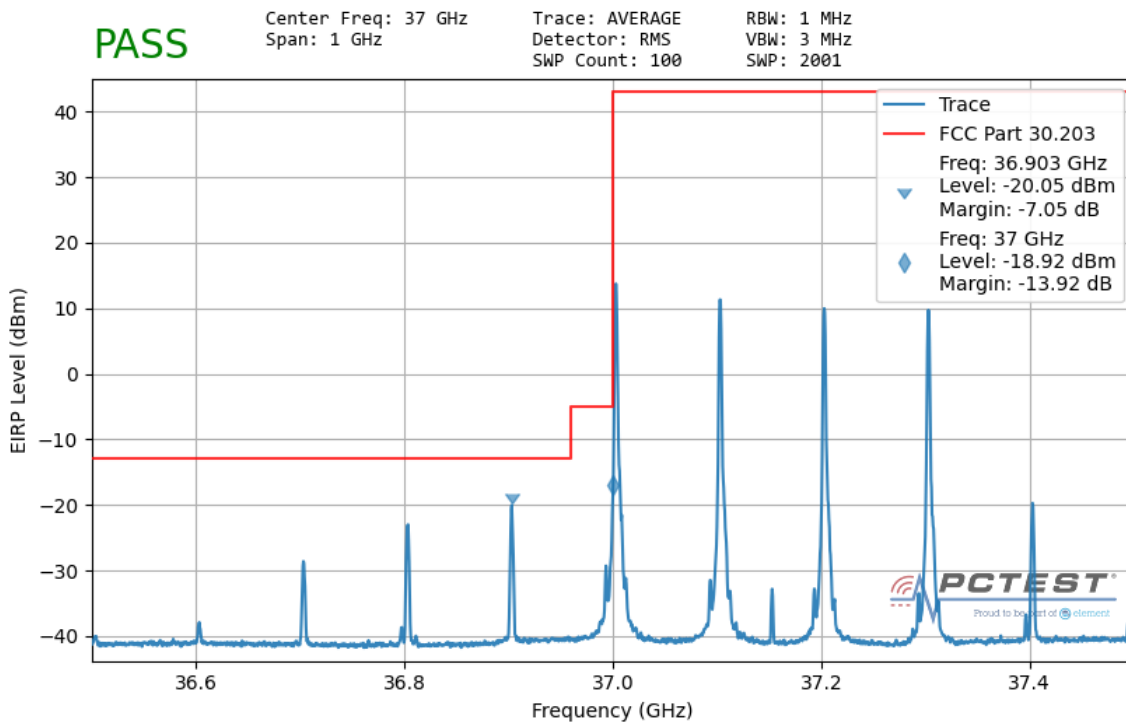


**Plot 7-144. Ant 2 Upper Band Edge (50MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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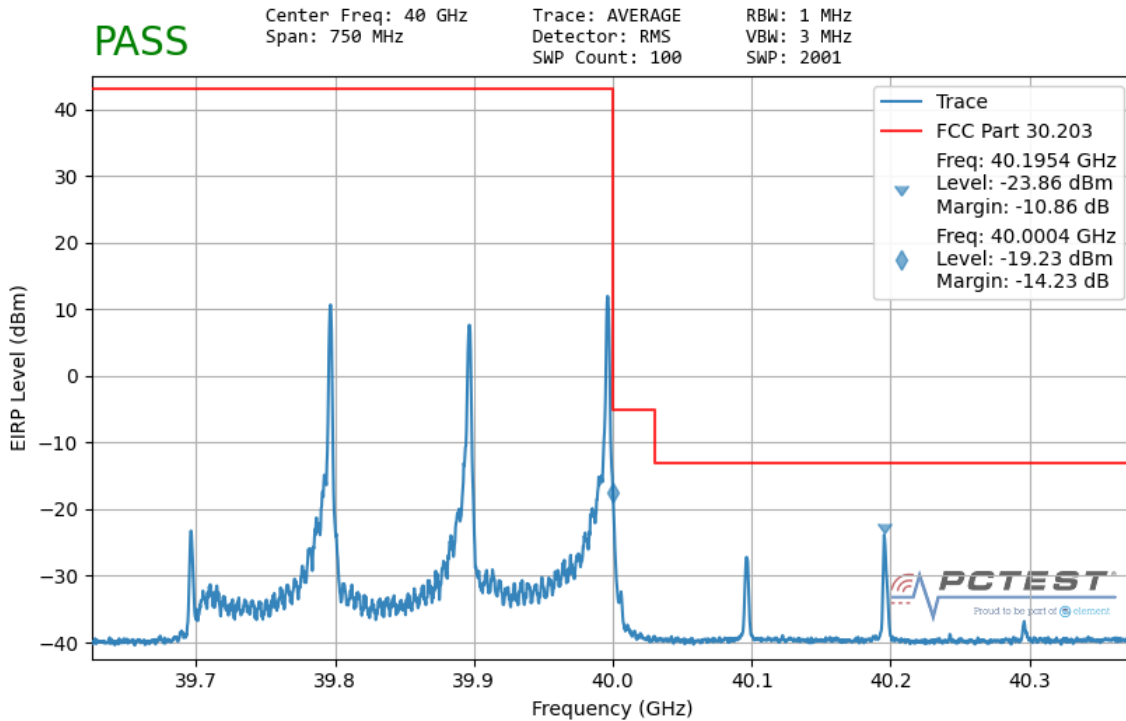


**Plot 7-145. Ant 2 Lower Band Edge (100MHz-3CC – QPSK 1 RB)**

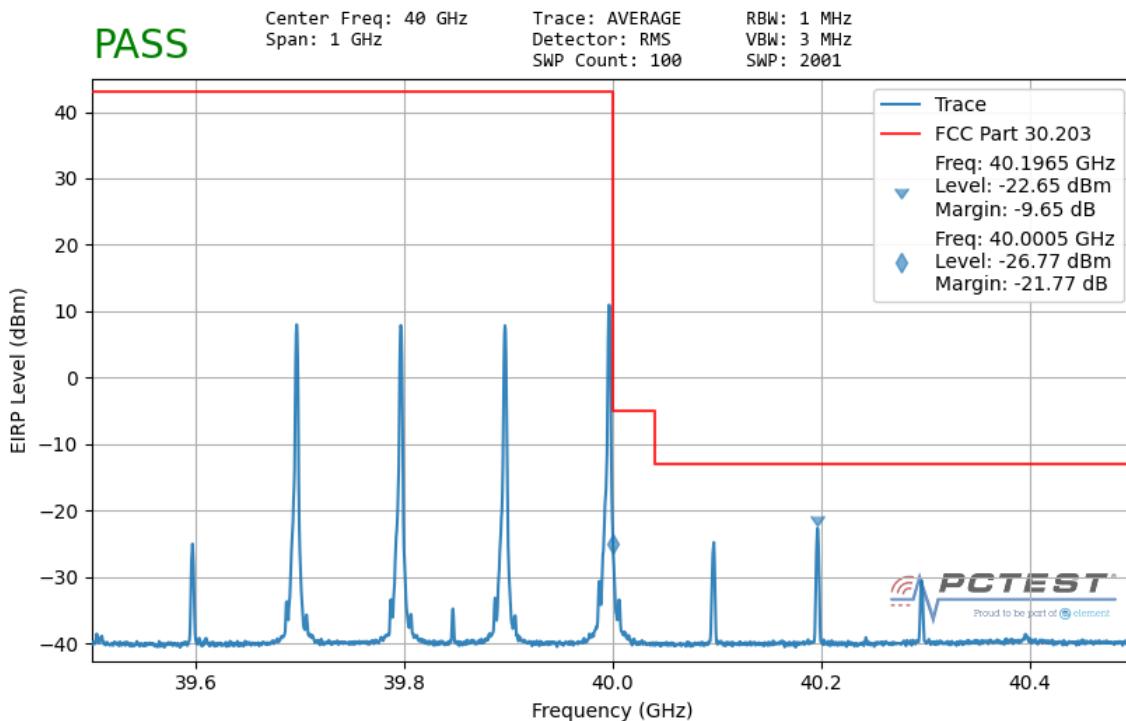


**Plot 7-146. Ant 2 Lower Band Edge (100MHz-4CC – QPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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**Plot 7-147. Ant 2 Upper Band Edge (100MHz-3CC – QPSK 1 RB)**



**Plot 7-148. Ant 2 Upper Band Edge (100MHz-4CC –  $\pi/2$ -BPSK 1 RB)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	Approved by: Technical Manager
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## 7.6 Frequency Stability / Temperature Variation

### §2.1055

#### Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

#### Test Procedure Used

ANSI C63.5-2015 Section 5.6  
KDB 842590 D01 v01r02 Section 4.5

#### Test Settings


1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

#### Test Setup

The EUT was measured using horn antenna connected to a spectrum analyzer. The EUT was placed inside an environmental chamber that uses a foam plug to maintain the temperature condition inside the chamber. The horn antenna measured the frequency of the fundamental signal.

#### Test Notes

The Frequency Deviation column in the table below is the amount of deviation measured from the center frequency of the Reference measurement (first row).

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**Frequency Stability Measurements (Band n258-R1)**  
§2.1055

OPERATING FREQUENCY: 24,275,702,423 Hz  
 CHANNEL: 2017083  
 REFERENCE VOLTAGE: 4.38 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	+ 20 (Ref)	24,275,702,423	0	0.0000000
100 %		- 30	24,275,719,698	-17,275	-0.0000712
100 %		- 20	24,275,764,410	-61,987	-0.0002553
100 %		- 10	24,275,759,874	-57,451	-0.0002367
100 %		0	24,275,689,222	13,201	0.0000544
100 %		+ 10	24,275,772,456	-70,033	-0.0002885
100 %		+ 30	24,275,711,235	-8,812	-0.0000363
100 %		+ 40	24,275,759,250	-56,827	-0.0002341
100 %		+ 50	24,275,738,898	-36,475	-0.0001503
BATT. ENDPOINT		3.38	+ 20	24,275,712,670	-10,247

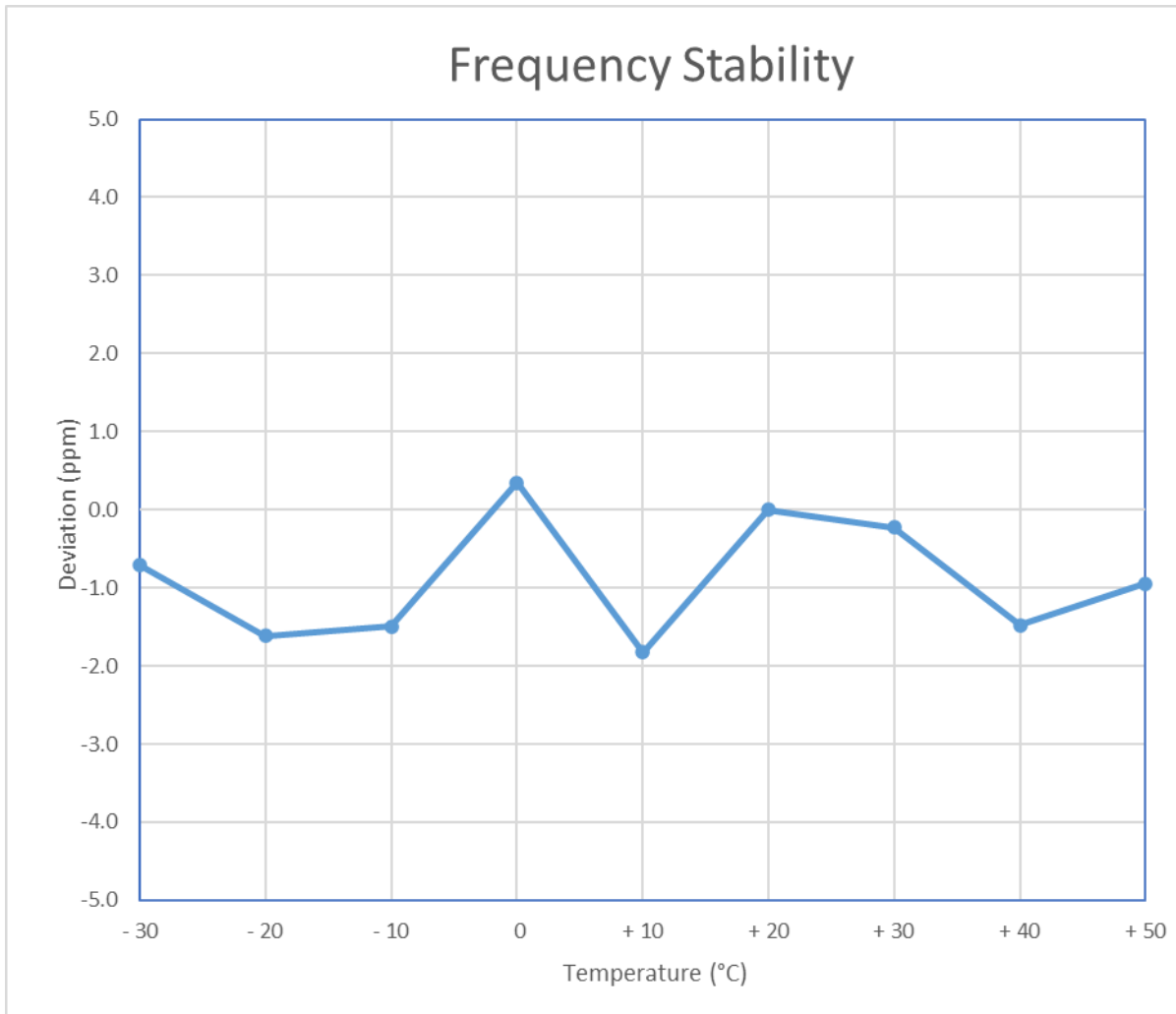
**Table 7-51. Frequency Stability Data (n258-R1)**

**Note:**


Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
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**Frequency Stability Measurements (Band n258)**  
§2.1055



**Figure 7-1. Frequency Stability Graph (n258)**

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
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**Frequency Stability Measurements (Band n261)**  
§2.1055

OPERATING FREQUENCY: 28,024,270,733 Hz  
 CHANNEL: 2254091  
 REFERENCE VOLTAGE: 4.38 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	+ 20 (Ref)	28,024,270,733	0	0.0000000
100 %		- 30	28,024,231,024	39,709	0.0001417
100 %		- 20	28,024,286,121	-15,388	-0.0000549
100 %		- 10	28,024,294,767	-24,034	-0.0000858
100 %		0	28,024,198,769	71,964	0.0002568
100 %		+ 10	28,024,203,271	67,462	0.0002407
100 %		+ 30	28,024,281,365	-10,632	-0.0000379
100 %		+ 40	28,024,311,658	-40,925	-0.0001460
100 %		+ 50	28,024,310,778	-40,045	-0.0001429
BATT. ENDPOINT		3.38	+ 20	28,024,270,999	-266

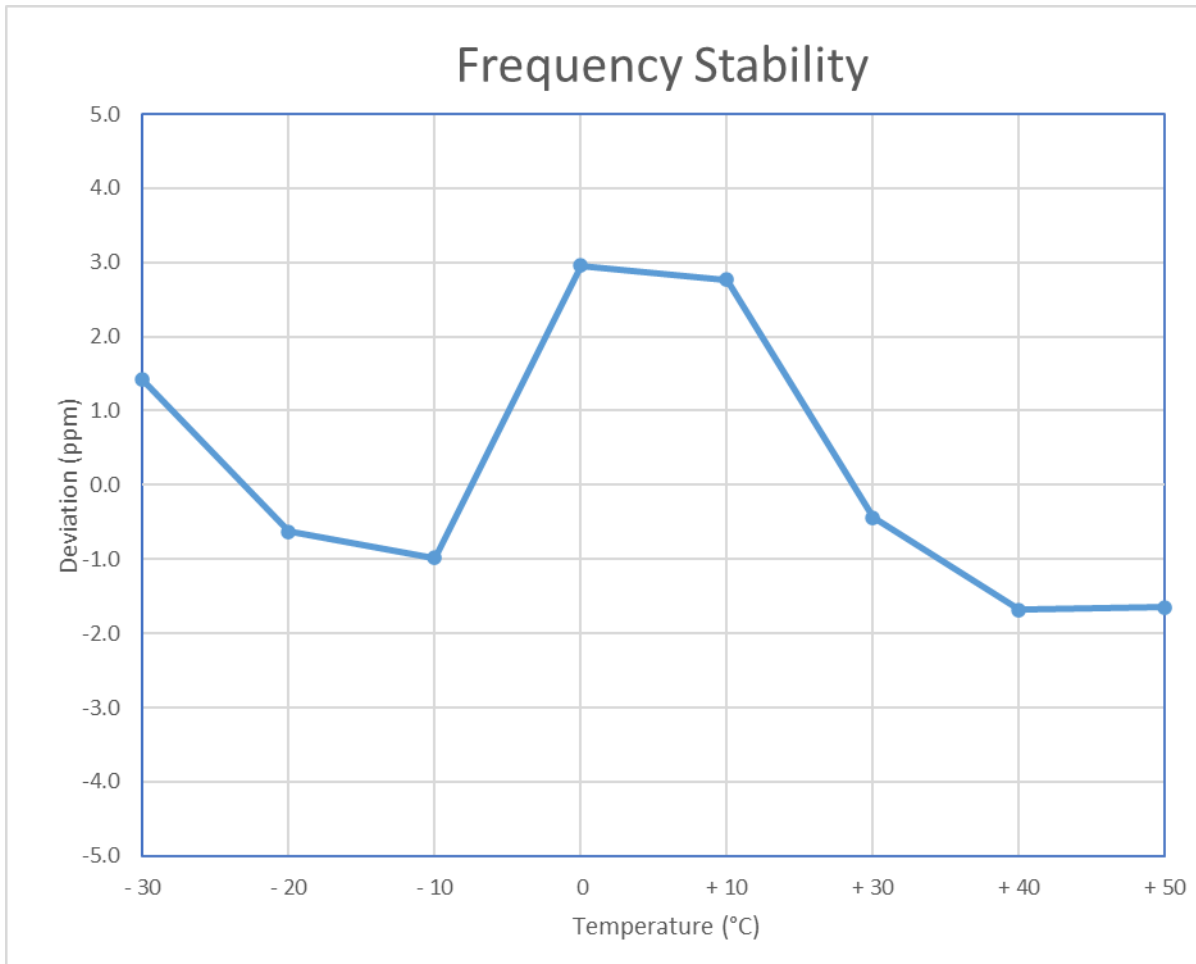
**Table 7-52. Frequency Stability Data (n261)**

**Note:**


Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 120 of 141

**Frequency Stability Measurements (Band n261)**  
§2.1055



**Figure 7-2. Frequency Stability Graph (n261)**

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**Frequency Stability Measurements (Band n260)**  
§2.1055

OPERATING FREQUENCY: 38,425,153,698 Hz  
 CHANNEL: 2252917  
 REFERENCE VOLTAGE: 4.38 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	+ 20 (Ref)	38,425,153,698	0	0.0000000
100 %		- 30	38,425,101,999	51,699	0.0001345
100 %		- 20	38,425,184,970	-31,272	-0.0000814
100 %		- 10	38,425,128,999	24,699	0.0000643
100 %		0	38,425,124,789	28,909	0.0000752
100 %		+ 10	38,425,169,458	-15,760	-0.0000410
100 %		+ 30	38,425,132,896	20,802	0.0000541
100 %		+ 40	38,425,182,496	-28,798	-0.0000749
100 %		+ 50	38,425,184,126	-30,428	-0.0000792
BATT. ENDPOINT		3.38	+ 20	38,425,141,255	12,443

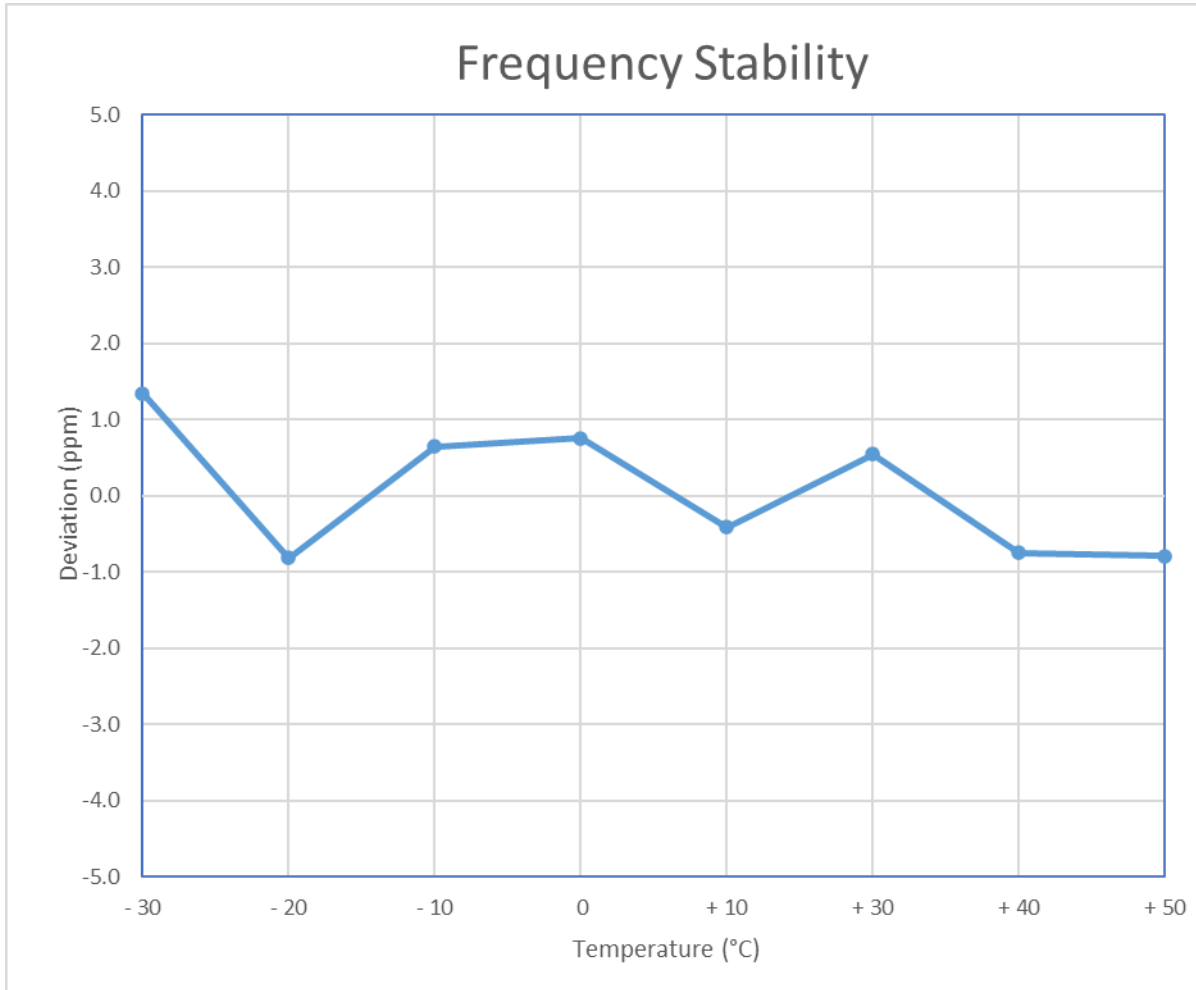
**Table 7-53. Frequency Stability Data (n260)**

**Note:**


Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
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**Frequency Stability Measurements (Band n260)**  
§2.1055




**Figure 7-3. Frequency Stability Graph (n260)**

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Test Report S/N: 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022 <b>EUT Type:</b> Portable Handset	Page 123 of 141

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS906U** complies with all the requirements of Part 30.

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<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset  Page 124 of 141

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## 9.0 APPENDIX A

### 9.1 VDI Mixer Verification Certificate



**Virginia Diodes, Inc**  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902  
 Phone: 434-297-3257  
 Fax: 434-297-3258

#### Certificate of Conformance

To: PCTEST Engineering Laboratory  
 7185 Oakland Mills Road  
 Columbia, MD 21046  
 United States

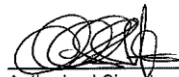
From: Virginia Diodes, Inc  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902

Packing List No: 202943  
 Shipping Date: 08/28/20

Today's Date: 08/28/20  
 PO Number: 200414.DP2


Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR19.0SAX-M-M4 WR19SAX-M-M4 / SN: SAX 679	20177A-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).



Authorized Signature  
 Virginia Diodes, Inc

Page 1 of 1

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 125 of 141

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**Virginia Diodes, Inc**  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902  
 Phone: 434-297-3257  
 Fax: 434-297-3258

**Certificate of Conformance**

To: PCTEST Engineering Laboratory  
 7185 Oakland Mills Road  
 Columbia, MD 21046  
 United States


From: Virginia Diodes, Inc  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902

<b>Packing List No:</b> 202695	<b>Today's Date:</b> 08/14/20
<b>Shipping Date:</b> 08/12/20	<b>PO Number:</b> 200414.DP2

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR12.0SAX-M-M6 S/N: SAX 680	20177B-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature   
 Virginia Diodes, Inc

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 126 of 141



**Virginia Diodes, Inc**  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902  
 Phone: 434-297-3257  
 Fax: 434-297-3258

**Certificate of Conformance**


To: PCTEST Engineering Laboratory  
 7185 Oakland Mills Road  
 Columbia, MD 21046  
 United States

From: Virginia Diodes, Inc  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902


<b>Packing List No:</b> 203623	<b>Today's Date:</b> 10/22/20
<b>Shipping Date:</b> 10/22/20	<b>PO Number:</b> 200414.DP2

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR8.0SAX-M-M9 S/N: SAX 681	20177C-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).



\_\_\_\_\_  
 Authorized Signature  
 Virginia Diodes, Inc

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 127 of 141





**Virginia Diodes, Inc**  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902  
 Phone: 434-297-3257  
 Fax: 434-297-3258

**Certificate of Conformance**


To: PCTEST Engineering Laboratory  
 7185 Oakland Mills Road  
 Columbia, MD 21046  
 United States


From: Virginia Diodes, Inc  
 979 2nd St. SE  
 Suite 309  
 Charlottesville, VA 22902

<b>Packing List No:</b> 203281	<b>Today's Date:</b> 09/24/20
<b>Shipping Date:</b> 09/24/20	<b>PO Number:</b> 200414.DP2

Quantity	Shipped	Unit	Description	Order-Job Number
1	EA	VDIWR5.1SAX-M-M18	WR5.1SAX-M-M18 - Mini Spectrum Analyzer Extension Module; SN: SAX 682.	20177D-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

  
 \_\_\_\_\_  
 Authorized Signature  
 Virginia Diodes, Inc

FCC ID: A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 128 of 141

## 9.2 Test Scope Accreditation



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC  
 (formerly PCTEST)  
 7185 Oakland Mills Road  
 Columbia, MD 21046  
 Randy Ortanez Phone: 410 290 6652

ELECTRICAL<sup>1</sup>

Valid To: September 30, 2022

Certificate Number: 2041.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the three satellite laboratory locations listed below*, to perform the following Electromagnetic Compatibility, SAR, HAC, Telecommunications, OTA, Battery, RF, and Conformance and Protocol testing of wireless devices:

**Test Technology:**

**Test Method(s)<sup>2</sup>:**

Emissions  
 Radiated and Conducted

CFR 47, FCC Parts 15B/C/D/E/F/G/H (using ANSI C63.4:2014, ANSI C63.10:2013, ANSI C63.17:2013, and FCC KDB 905462 D02 (v02)), 18 (using MP-5:1986); ANSI C63.10:2020; KDB 987594; ETSI TS 134 124 Universal Mobile Telecommunications System (UMTS); (3GPP TS 34.124); (3GPP TS38.124 NR; Electromagnetic Compatibility (EMC) Requirements for Mobile Terminals and Ancillary Equipment); ETSI TS 136 124 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); (3GPP TS 36.124); ETSI TS 151 010-1 Digital Cellular Telecommunications System (Phase 2+) (GSM); 3GPP TS 51.010-1, Section 12 (Conducted and Radiated Spurious Emissions); EN55011; EN 55032; CNS 13438 (up to 6 GHz); AS/NZS CISPR 11; IEC/CISPR 11; CISPR 32; FCC OET/MP-5; ICES-003; KN 11; KN 32; VCCI V-3(2016.11); VCCI V-3 (2015.04); VCCI 32-1; VCCI-CISPR 32

Accessibility

CFR 47, FCC Part 14

Transmitter/Receiver


RSS 111; RSS 112; RSS 117; RSS 119; RSS 123; RSS 125; RSS 127; RSS 130; RSS 131; RSS 132; RSS 133; RSS 134; RSS 135; RSS 137; RSS 139; RSS 140; RSS 141; RSS 142; RSS 170; RSS 181; RSS 182; RSS 191; RSS 192; RSS 194; RSS 195; RSS 196; RSS 197; RSS 199; RSS 210; RSS 211; RSS 213; RSS 215; RSS 216; RSS 220; RSS 222; RSS 236; RSS 238; RSS 243; RSS 244; RSS 246; RSS 247; RSS 248; RSS 251; RSS 252; RSS 287; RSS 288; RSS 310; RSS Gen

(A2LA Cert. No. 2041.01) Revised 05/20/2022



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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

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**Test Technology:**

SAR/RF Exposure

**Test Method(s) <sup>2</sup>:**

IEEE 1528-2013; RSS 102 Issue 5 (2015);  
 EN 50360-2017; EN 62209-1:2016; EN 62209-2:2010;  
 IEC 62209-1 2<sup>nd</sup> Edition 2016; IEC 62209-2 2010;  
 IEC PAS 63083-2017; EN 50566-2017; IEC 62209-2 AMD 1;  
 Australian Communications Authority Radio Communications  
 (Electromagnetic Radiation – Human Exposure) Standard 2014;  
 FCC KDB 248227 D01; FCC KDB 447498 D01, D02, and D03;  
 FCC KDB 615223 D01; FCC KDB 616217 D04;  
 FCC KDB 643646 D01; FCC KDB 648474 D03 and D04;  
 FCC KDB 680106 D01; FCC KDB 865664 D01 and D02;  
 FCC KDB 941225 D01, D05, D05A, D06, and D07;  
 EN 50401:2017; EN 50385:2017; IEC 62311:2008;  
 IEC 62479:2010; EN 62479:2010; EN 50663:2017;  
 EN 62311:2007; EN 62232:2017; IEC 62232:2017;  
 IEEE C95.1-2005; IEEE C95.1-1992; IEEE C95.3-2002;  
 RSS-102 (SAR, RF Exposure, NS), SPR-003; SPR-002; SPR-001;  
 SPR-004;  
 IEC TR 62630:2010; IEEE C95.3.1:2010; IEC TR 63170:2018;  
 AS/NZS 2772.2:2016; EN 62209-3: 2019; IEC 62209-3:2019;  
 C95.1: 2019; ICNIRP (100KHz – 300 GHz): 2020;  
 IEC 62311:2019; EN 62311:2020; IEC/IEEE 62209-1528:2020;  
 RRA Public Notification 2018-18, December 7, 2018

Hearing Aid Compatibility

ANSI C63.19:2007; ANSI C63.19:2011; ANSI C63.19:2019;  
 CTIA Test Plan for Hearing Aid Compatibility v.3.1.1 (2017);  
 FCC KDB 285076, D01 & D02; RSS-HAC


United States Radio

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87, 90, 95,  
 96, 97, 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E,  
 ANSI C63.26:2015); ANSI/TIA-603-D; TIA-102.CAAA-D;  
 FCC KDB 935210 D03 (v04); FCC KDB 935210 D04 (v02);  
 FCC KDB 935210 D05 (v01)

European Radio

ETSI EN 302 065-1 Version 2.1.1 (2016-11);  
 ETSI EN 302 065-2 Version 2.1.1 (2016-11);  
 ETSI EN 302 065-3 Version 2.1.1 (2016-11);  
 ETSI EN 302 065-4 Version 1.1.1 (2016-11);  
 ETSI EN 302 291-1 Version 1.1.1 (2005-07);  
 ETSI EN 302 291-2 Version 1.1.1 (2005-07);  
 ETSI EN 302 502 Version 2.1.3 (2017-07);  
 ETSI EN 302 510-1 Version 1.1.1;  
 ETSI EN 302 510-2 Version 1.1.1;  
 ETSI EN 302 537 Version 2.1.1 (2016-10);  
 ETSI EN 301 511 Version 12.5.1 (2017-03);  
 ETSI EN 301 839 Version 2.1.1 (2016-04);  
 ETSI EN 301 893 Version 2.1.1 (2017-05);  
 ETSI EN 301 893 Version 1.8.1 (2015-03);  
 ETSI EN 301 908-1 Version 13.1.1 (2019-11);  
 ETSI EN 301 908-13 Version 13.1.1 (2019-11);



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**Test Technology:**

**Test Method(s) <sup>2</sup>:**

European Radio (cont'd)

ETSI EN 300 220-1 Version 3.1.1 (2017-02);  
 ETSI EN 300 220-2 Version 3.2.1 (2018-06);  
 ETSI EN 300 328 Version 2.1.1 (2016-11);  
 ETSI EN 300 328 Version 2.2.2 (2019-07);  
 ETSI EN 300 330 Version 2.1.1 (2017-02);  
 ETSI EN 300 440 Version 2. (22.1 (2018-07);  
 ETSI EN 300 440-2 Version 1.4.1 (2010-08);  
 KS X 3123, KS X 3142, KS X 3270, KS X 3271;  
 LP0002; DGT LP0002;

Korean Radio

Regulations on Radio Equipment  
 (MSIT Ordinance MSIT No. 63, Dec. 24, 2020);  
 Unlicensed Radio Equipment Established Without Notice  
 (MSIT Public Notification 2020-59, Oct. 16, 2020);  
 Technical Requirements for the Human Protection against  
 Electromagnetic Waves  
 (MSIT Public Notification 2019-4, January 16, 2019);  
 Equipment to be Subject of the Test Procedure for Electromagnetic  
 Field Strength and Specific Absorption Rate  
 (RRA Public Notification 2019-1, January 17, 2019);  
 Technical Requirements for Radio Equipment for  
 Telecommunication Services  
 (RRA Public Notification 2019-9, June 3, 2019);  
 Technical Requirements for Measurement and Test Procedure of  
 Specific Absorption Rate  
 (RRA Public Notification 2018-18, Dec 7, 2018);  
 Technical Requirements for Measurement of Electromagnetic Field  
 Strength (RRA Public Notification 2019-3, March 4, 2019)

Australia/New Zealand Radio

AS/NZS 4268:2017

Licensed Wireless Devices


ANSI C63.26:2015

Wired and Wireless Conformance

5G NR

3GPP TS 38.508-1; 3GPP TS 38.508-2; 3GPP TS 38.521-1;  
 3GPP TS 38.521-2; 3GPP TS 38.521-3; 3GPP TS 38.521-4;  
 3GPP TS 38.522; 3GPP TS 38.523-1; 3GPP TS 38.523-2;  
 3GPP 38.523-3; 3GPP TS 38.533; VZW 5G NR FR2 RFOTA;  
 VZW 5G Protocol Pre-Conformance (TS 38.523-1);  
 VZW 5G NR FR1 Supp RF;  
 VZW 5G NR RF Pre Conformance (TS 38.521-3);  
 VZW 5G NR Radio Resource Management (RRM)  
 Pre-Conformance (TS 38.533)



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<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 131 of 141

**Test Technology:**

**Test Method(s) <sup>2</sup>:**

LTE

3GPP TS 36.521-1; 3GPP TS 36.521-3; 3GPP TS 36.523-1;  
 3GPP 37.571-1; 3GPP 37.571-2; 3GPP TS 34.229;  
 3GPP Carrier Aggregation;  
 PTCRB NAPRD.03; PTCRB PPMD;  
 PTCRB Cat-M (per RFT132 eMTC);  
 PVG.09 LTE Data Throughput & TR 37.901 Data Throughput Performance;  
 PVG.04 PTCRB Radiated Spurious Emissions;  
 Global Certification Forum (GCF-CC) Certification / LTE Field Test (TS.11) <sup>3</sup>;  
 3GPP Cat-NB & Cat-M;  
 MetroPCS Lab Conformance; AT&T LTE Conformance;  
 AT&T IoT Accelerator Conformance, 19263;  
 VZW Lab Conformance; VZW Supl RF;  
 VZW FR2 Supplementary RF, VZW FR1 Supplementary RF;  
 VZW Supl Signaling Conformance;  
 VZW Supl RRM;  
 VZW LTE LBS Performance;  
 VZW Safe for Network (SFN), VZW Phase 1, VZW Open Development and Field Interoperability Testing (FIT) <sup>3</sup>;  
 VZW Network Extender; VZW PCO; VZW Data Retry;  
 VZW Data Throughput; VZW SMS; VZW AT Commands;  
 VZW CMAS; VZW eMBMS; VZW APN; VZW Cat-M VoLTE;  
 Live Network Extender and Android Test Plan;  
 Sprint LTE Test Plan; Sprint LTE Safe for Network (SFN);  
 Sprint LTE Conformance; Sprint LTE IoT;  
 Sprint Lab Conformance; USCC Lab Conformance;  
 KDDI LTE Device Testing; SoftBank LTE Testing

WCDMA (UTRA)

3GPP TS 34.121-1; 3GPP TS 34.123-1;  
 SoftBank Mobile WCDMA Testing

SVLTE / Multimode

CDMA-LTE Inter-RAT (iRAT); CDMA-LTE Inter-RAT SVD;  
 SVLTE: 1x RF with LTE Data Cal;  
 SVLTE: LTE RF with 1x Voice Call;  
 SVD and SVLTE: LTE Data Throughput with 1x Voice Call;  
 eHRPD; GMSS; SVD GMSS; E911 Data Call Processing;  
 Stress Testing; RSSI for MM Devices; SVD Interband;  
 LTE LBS Performance; VZW Multimode Supl Signaling;  
 VZW Multimode SMS; VZW Multimode Data Retry


VoLTE

IMS VoIP; Rich Communication Services (RCS);  
 VoLTE to 1xRTT Fallback for SVLTE (1xRTT Fallback);  
 IMS Registration and Retry; ePDG Live Network;  
 E911 for VoLTE; VZW hVoLTE;  
 VZW VoIP and VT Performance;  
 VZW Interband RRM and Protocol

(A2LA Cert. No. 2041.01) Revised 05/20/2022




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<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 132 of 141

<b><u>Test Technology:</u></b>	<b><u>Test Method(s) <sup>2</sup>:</u></b>
Carrier Aggregation	VZW Carrier Aggregation Supplementary RF; VZW Carrier Aggregation Data Throughout
UICC	USIM/USAT/CSIM/ISIM Interaction Test Plan (LTE/WCDMA/GSM/CDMA/MM); 3GPP TS 31.121; 3GPP TS 31.124; ETSI TS 102 230; SIM Application Interaction Test Plan; UICC USIM ISIM Electrical; UICC USIM ISIM Protocol (LTE/WCDMA/GSM/CDMA); SWP/HCI ETSI TS 102 694-1; ETSI TS 102 695-1
SunSpec Alliance	SunSpec – CSIP (Common Smart Inverter Profile) Conformance Test Procedures; SunSpec – Advanced Function Inverter Test Lab Specification; SunSpec – UL1741 Supplement SA/Rule 21 Implementation Guide; IEEE 2030.5-2018 Smart Energy Profile Application Protocol
CBRS (OnGo) / WInnForum	CBRS Alliance Certification Test Plan; WInnForum Conformance and Performance Test Technical Standards

<sup>1</sup> This accreditation covers testing performed at the main laboratory listed above, and the three satellite laboratories listed below:



<b>FCC ID:</b> A3LSMS906U		<b>PART 30 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2203290040-01.A3L	<b>Test Dates:</b> 07/11/2022 – 08/29/2022	<b>EUT Type:</b> Portable Handset	Page 133 of 141

7195 Oakland Mills Rd, Suite A  
Columbia, MD 21046

**Test Technology:**

**Test Method(s) <sup>2</sup>:**


Wireless

3GPP2 C.S0011-C 20-Feb-2006 (TIA-98D/E/F)  
(excluding Sections 3.2.1.3, 3.2.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6,  
3.4.6, 3.4.8, 3.4.10, 3.4.11, 3.4.12, 3.4.13, 3.7.2, 4.4.8, 4.4.9.2.1,  
4.4.10, 4.4.11);  
3GPP2 C.S0043-0 24-Sep-2004 (TIA-1035);  
3GPP2 C.S0036-0 11-Mar-2002 (TIA-916);  
3GPP2 C.S0036-A 23-May-2011 (TIA-916-A);  
3GPP2 C.S0037-0 19-Apr-2002 (TIA-918);  
3GPP2 C.S0056-0 22-Jul-2005 (TIA-1042);  
3GPP2 C.S0059-0 20-Aug-2008 (TIA-1038);  
3GPP2 C.S0060-0 06-Dec-2005 (TIA-1044);  
3GPP2 C.S0061-0 22-Jun-2005 (TIA-1045);  
3GPP2 C.S0062-0 14-May-2007 (TIA-1046);  
3GPP2 C.S0073-0 26-Sep-2005 (TIA-1084);  
3GPP2 C.S0073-B 21-Aug-2009 (TIA n/a);  
3GPP2 C.S0094-0 30-Oct-2008 (TIA-1157);  
CTIA Conformance Test Plan for CDMA Wireless Devices;  
GCF Certification Criteria 2 (CAG2) Test Plan;  
VZW Wireless Priority Services (WPS);  
VZW Safe for Network (SFN);  
VZW Open Development (OD) Device Specifications;  
VZW Location Based Services (LBS);  
VZW CMAS; VZW NBPCD; VZW Phase 1

EVDO

3GPP2 C.S0033-0 12-Dec-2003 (TIA-866);  
3GPP2 C.S0033-A 14-Dec-2005 (TIA-866);  
3GPP2 C.S0038-0 19-Apr-2002 (TIA-919);  
3GPP2 C.S0038-A 26-Sep-2005 (TIA-919);  
3GPP2 C.S0038-B 30-Mar-2009 (TIA n/a);  
3GPP2 C.S0037-0 19-Apr-2002 (TIA-918);  
CTIA Conformance Test Plan for CDMA Wireless Devices;  
GCF Certification Criteria 2 (CAG2) Test Plan



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**Test Technology:**

**Test Method(s) <sup>2</sup>:**

Emissions  
Radiated and Conducted

CFR 47, FCC Parts 15B/C/D/E/F/G/H (using ANSI C63.4:2014, ANSI C63.10:2020, ANSI C63.10:2013; ANSI C63.17:2013, FCC KDB 905462, and KDB 987594, 18 (using MP-5:1986); ANSI C63.10:2013; ETSI TS 134 124 Universal Mobile Telecommunications System (UMTS); (3GPP TS 34.124); ETSI TS 136 124 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); (3GPP TS 36.124); (3GPP TS38.124 NR; Electromagnetic Compatibility (EMC) Requirements for Mobile Terminals and Ancillary Equipment); ETSI TS 151 010-1 Digital Cellular Telecommunications System (Phase 2+) (GSM); 3GPP TS 51.010-1, Section 12 (Conducted and Radiated Spurious Emissions); EN55011; EN 55032; CNS 13438 (up to 6 GHz); AS/NZS CISPR 11; IEC/CISPR 11; CISPR 32; FCC OET/MP-5; ICES-003; KN 11; KN 32; VCCI V-3(2016.11); VCCI V-3 (2015.04); VCCI 32-1: VCCI-CISPR 32

Accessibility

CFR 47, FCC Part 14

Transmitter/Receiver

RSS 111; RSS 112; RSS 117; RSS 119; RSS 123; RSS 125; RSS 127; RSS 130; RSS 131; RSS 132; RSS 133; RSS 134; RSS 135; RSS 137; RSS 139; RSS 140; RSS 141; RSS 142; RSS 170; RSS 181; RSS 182; RSS 191; RSS 192; RSS 194; RSS 195; RSS 196; RSS 197; RSS 199; RSS 210; RSS 211; RSS 213; RSS 215; RSS 216; RSS 220; RSS 222; RSS 236; RSS 238; RSS 243; RSS 244; RSS 246; RSS 247; RSS 248; RSS 251; RSS 252; RSS 287; RSS 288; RSS 310; RSS Gen

Hearing Aid Compatibility

ANSI C63.19:2007; ANSI C63.19:2011; ANSI C63.19:2019; CTIA Test Plan for Hearing Aid Compatibility v.3.1.1 (2017); FCC KDB 285076, D01 & D02; RSS-HAC


United States Radio

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87, 90, 95, 96, 97, 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E, ANSI C63.26:2015); FCC KDB 935210;

European Radio

ETSI EN 302 065-1 Version 2.1.1 (2016-11); ETSI EN 302 065-2 Version 2.1.1 (2016-11); ETSI EN 302 065-3 Version 2.1.1 (2016-11); ETSI EN 302 065-4 Version 1.1.1 (2016-11); ETSI EN 302 291-1 Version 1.1.1 (2005-07); ETSI EN 302 291-2 Version 1.1.1 (2005-07); ETSI EN 302 502 Version 2.1.3 (2017-07); ETSI EN 302 510-1 Version 1.1.1; ETSI EN 302 510-2 Version 1.1.1; ETSI EN 302 537 Version 2.1.1 (2016-10); ETSI EN 301 511 Version 12.5.1 (2017-03); ETSI EN 301 839 Version 2.1.1 (2016-04); ETSI EN 301 893 Version 2.1.1 (2017-05); ETSI EN 301 893 Version 1.8.1 (2015-03);



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