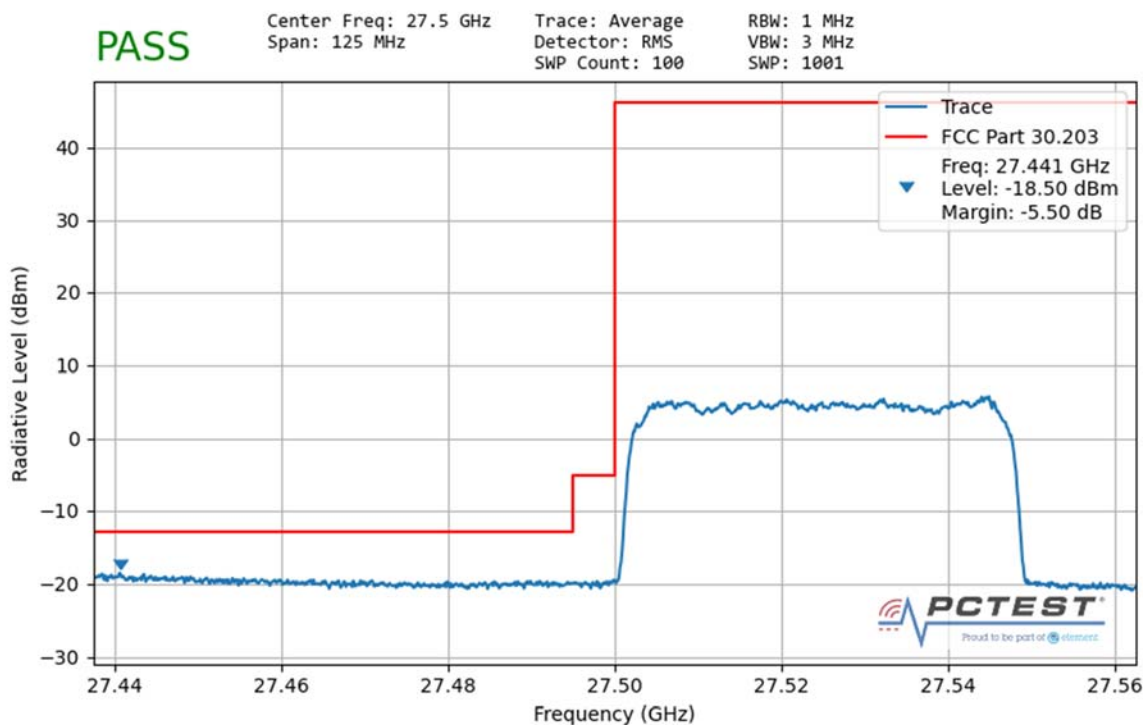
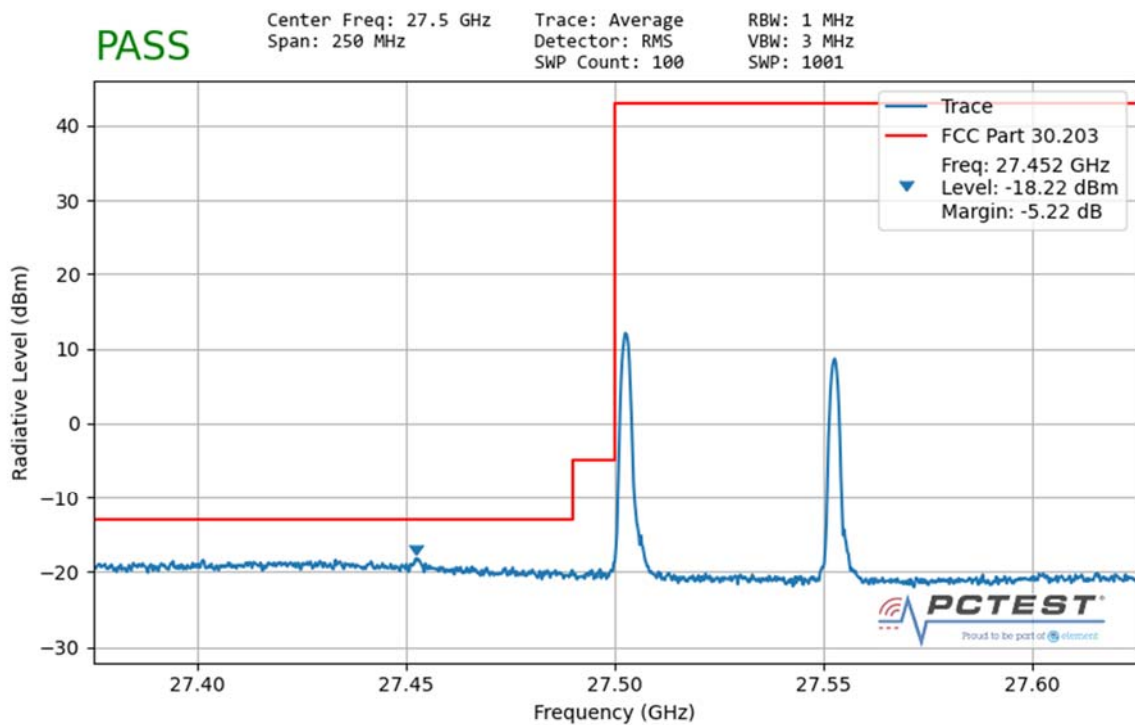


Band n261 – Worst-Case

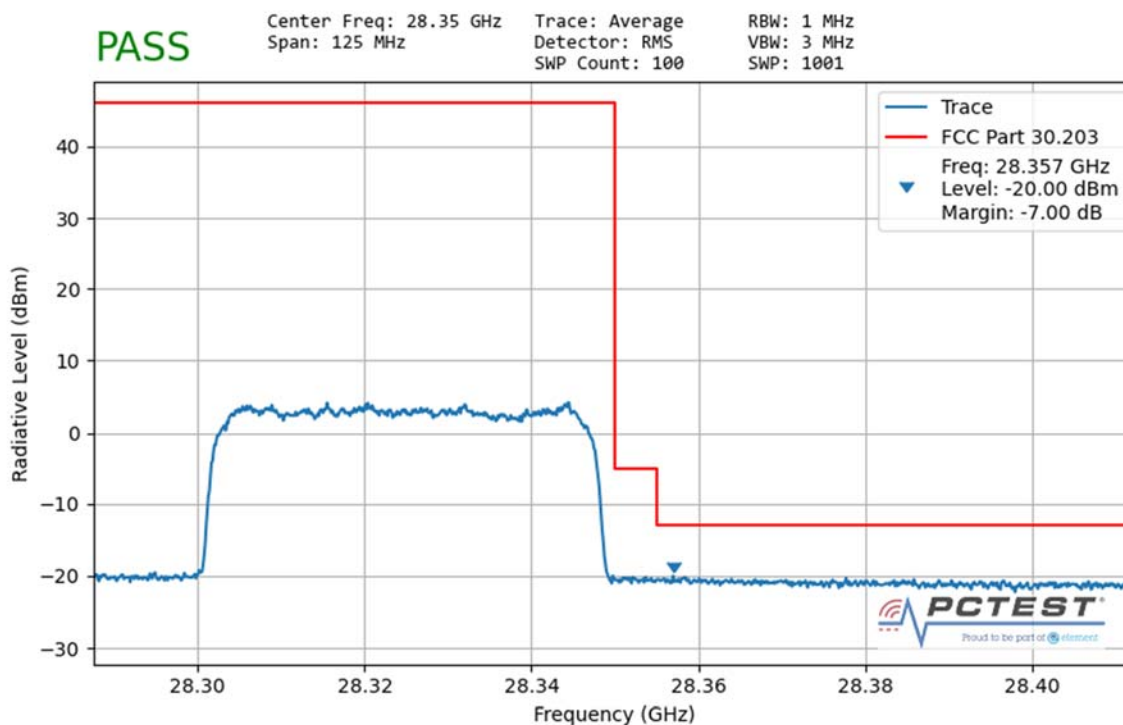


Plot 7-63. Ant 1 Lower Band Edge (50MHz-1CC – QPSK Full RB)

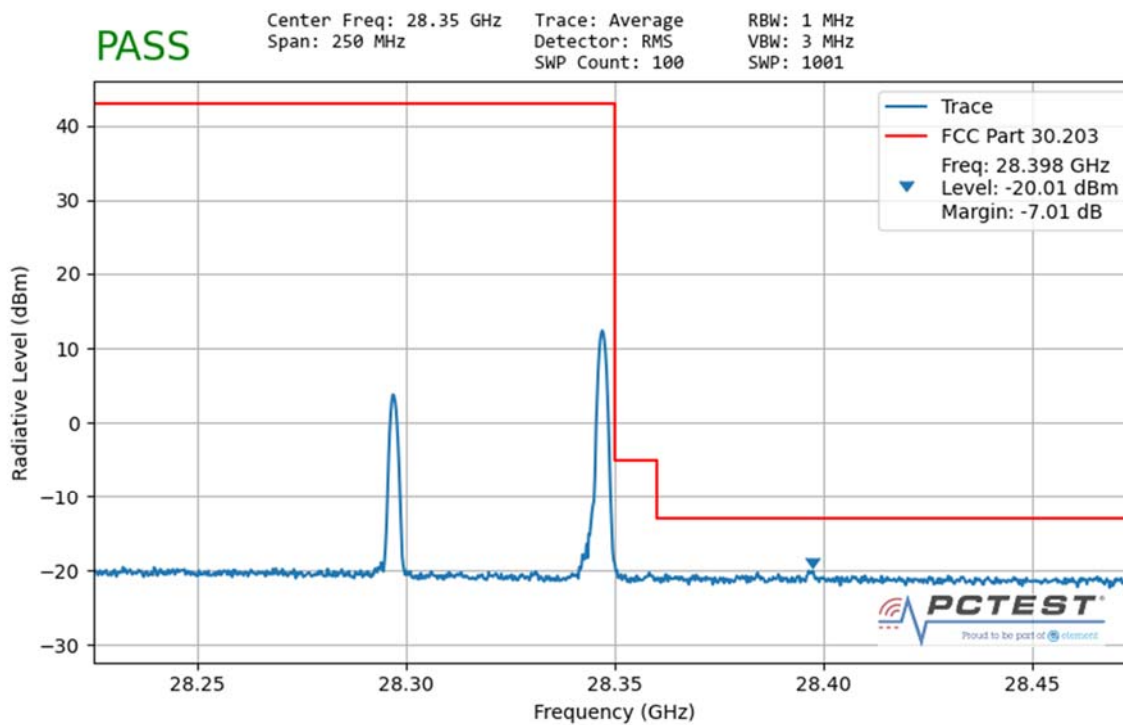


Plot 7-64. Ant 1 Lower Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 93 of 126

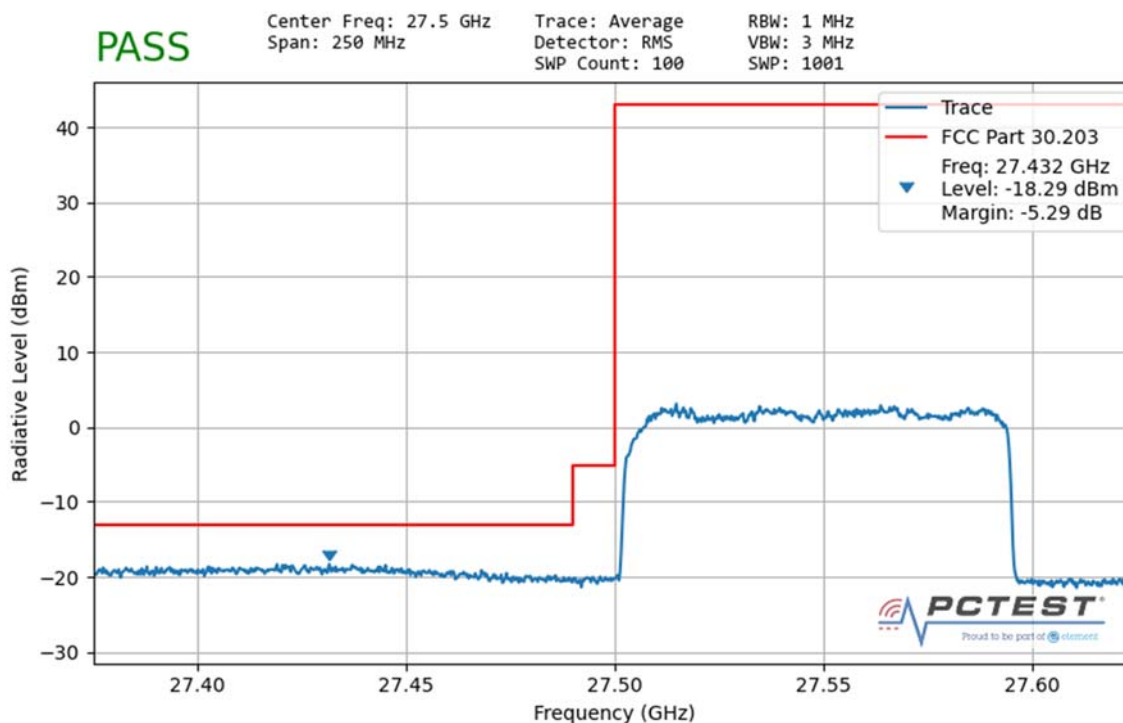


Plot 7-65. Ant 1 Upper Band Edge (50MHz-1CC – QPSK Full RB)

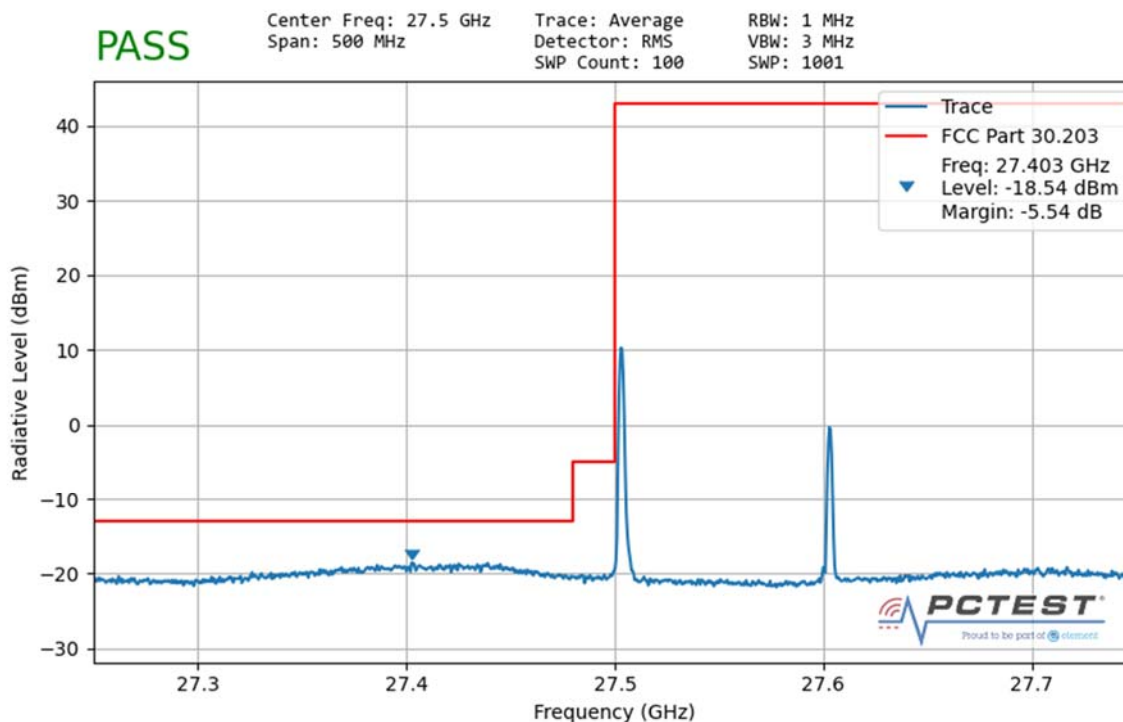


Plot 7-66. Ant 1 Upper Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 94 of 126

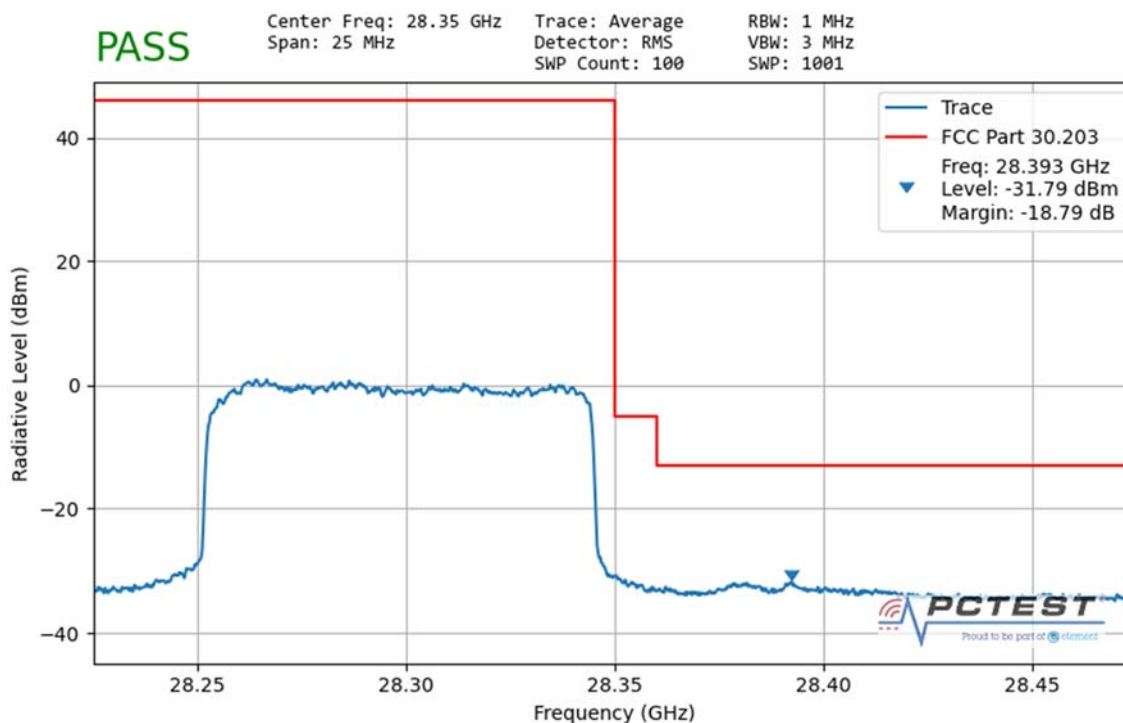


Plot 7-67. Ant 1 Lower Band Edge (100MHz-1CC – QPSK Full RB)

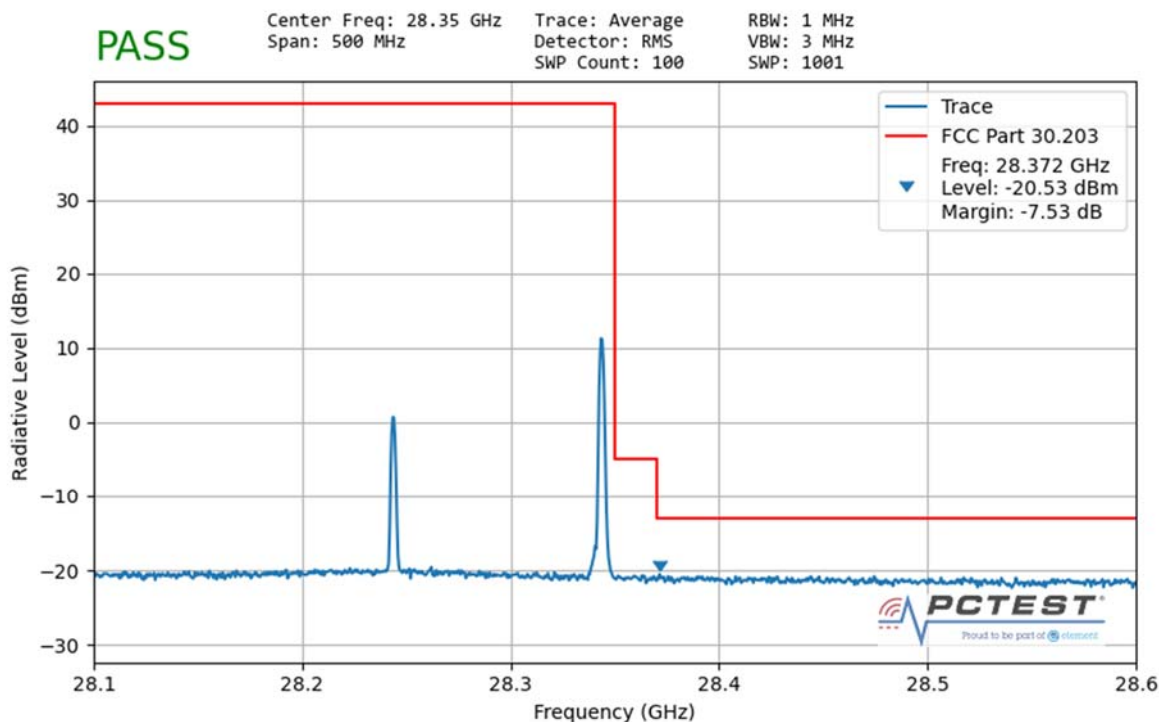


Plot 7-68. Ant 1 Lower Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 95 of 126

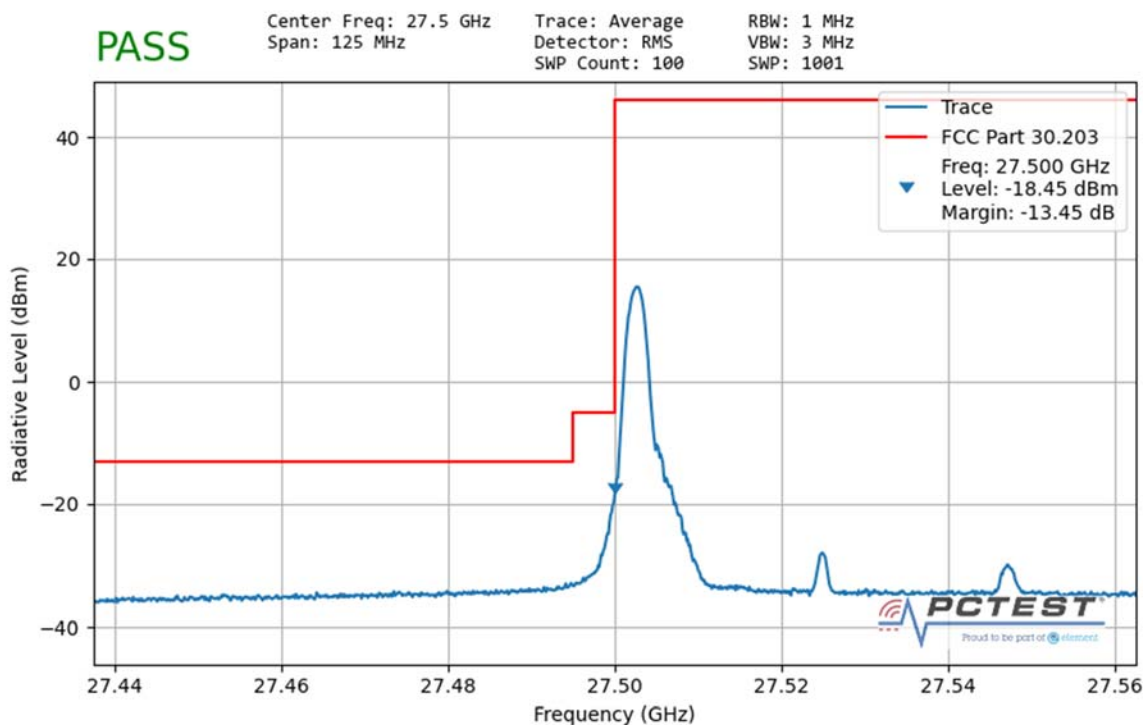


Plot 7-69. Ant 1 Upper Band Edge (100MHz-1CC – QPSK Full RB)

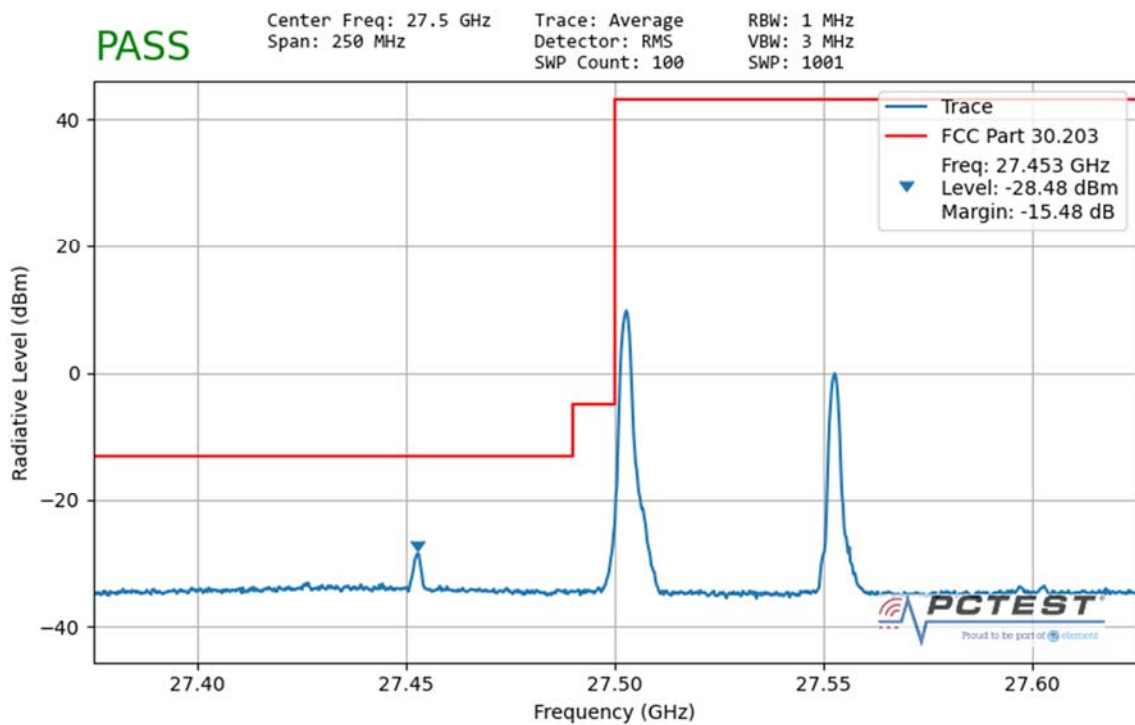


Plot 7-70. Ant 1 Upper Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 96 of 126

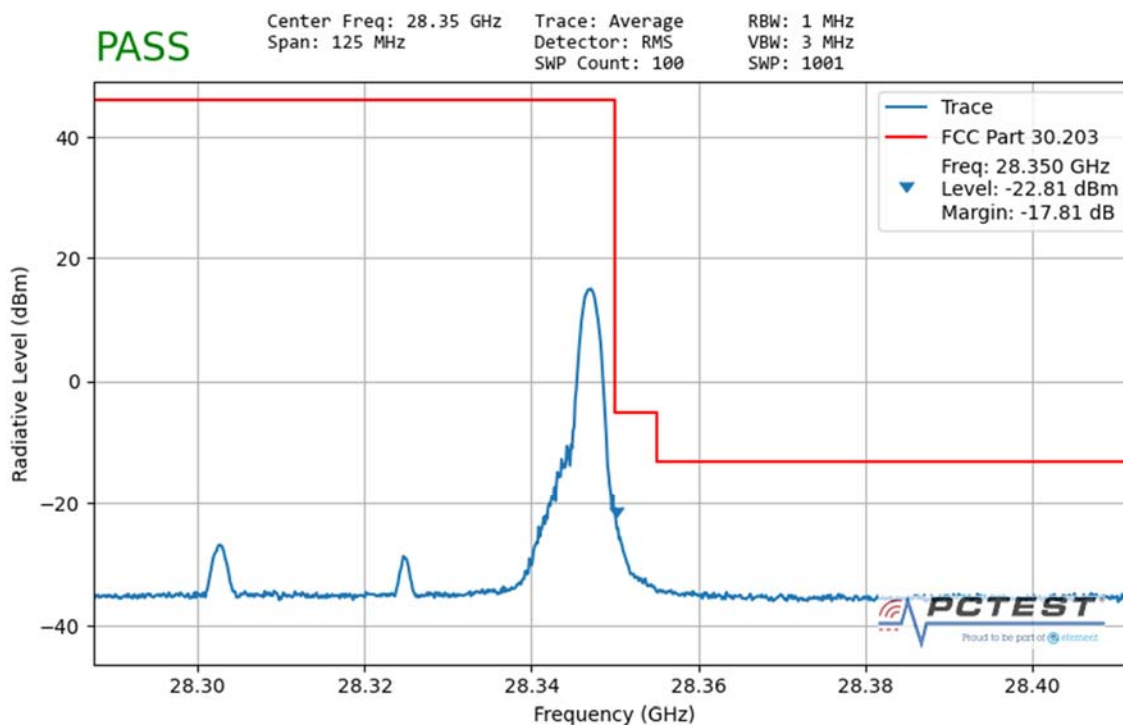


Plot 7-71. Ant 2 Lower Band Edge (50MHz-1CC – QPSK 1 RB)

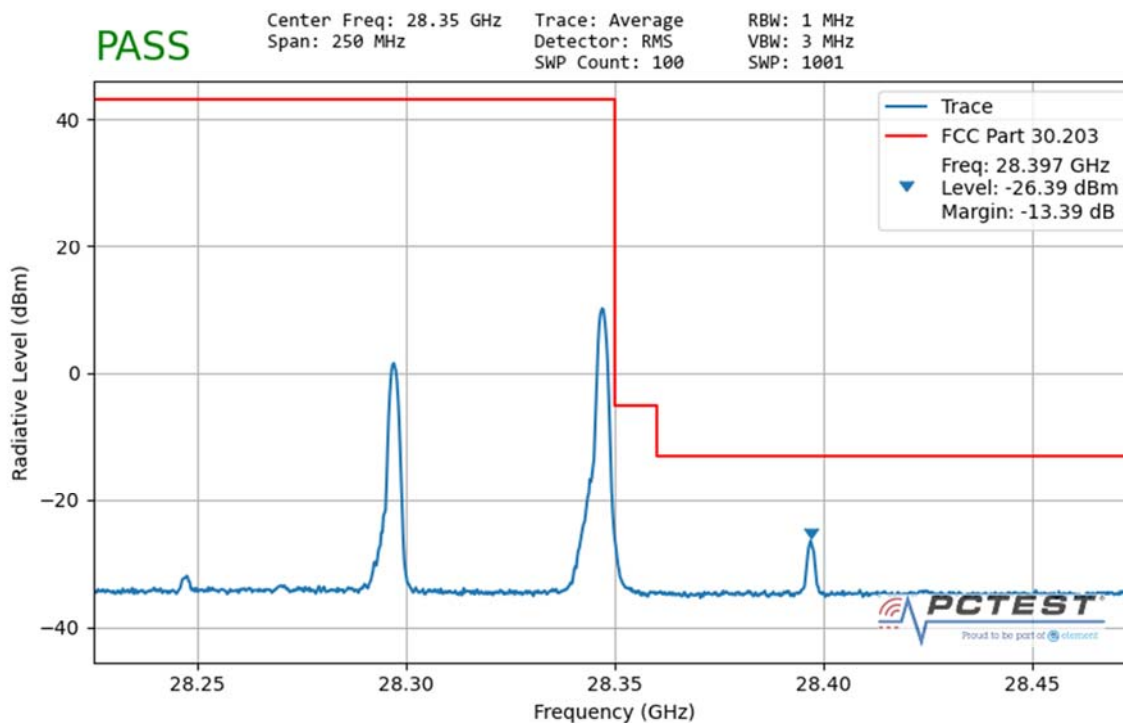


Plot 7-72. Ant 2 Lower Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 97 of 126

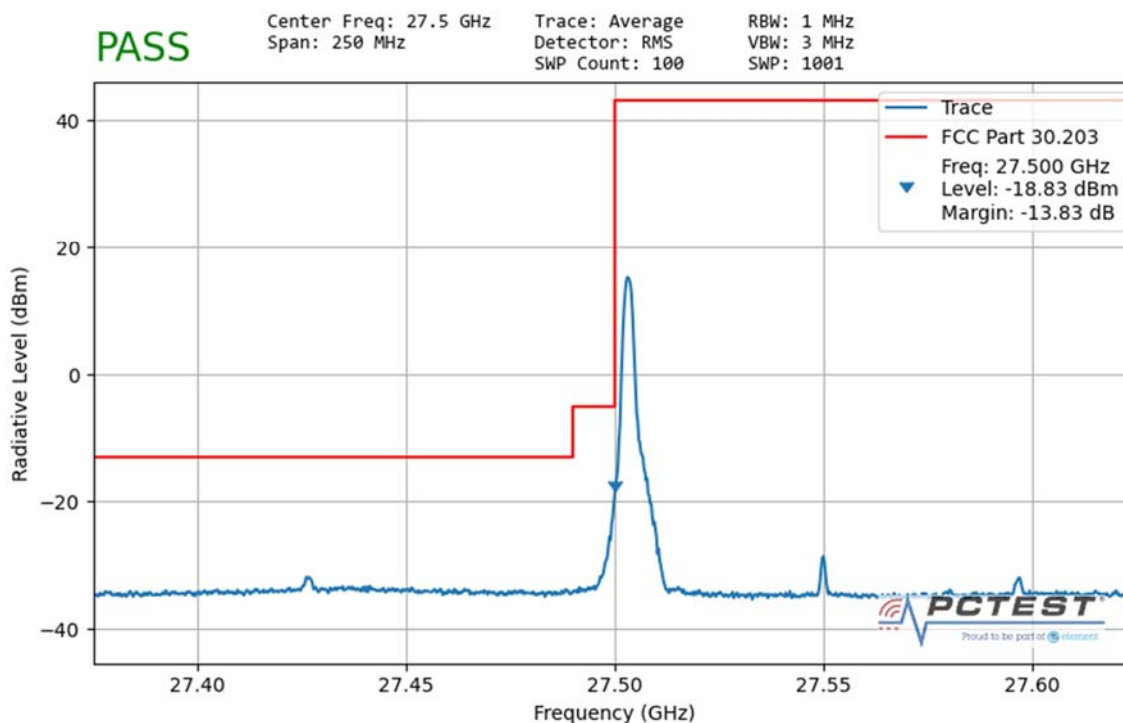


Plot 7-73. Ant 2 Upper Band Edge (50MHz-1CC – QPSK 1 RB)

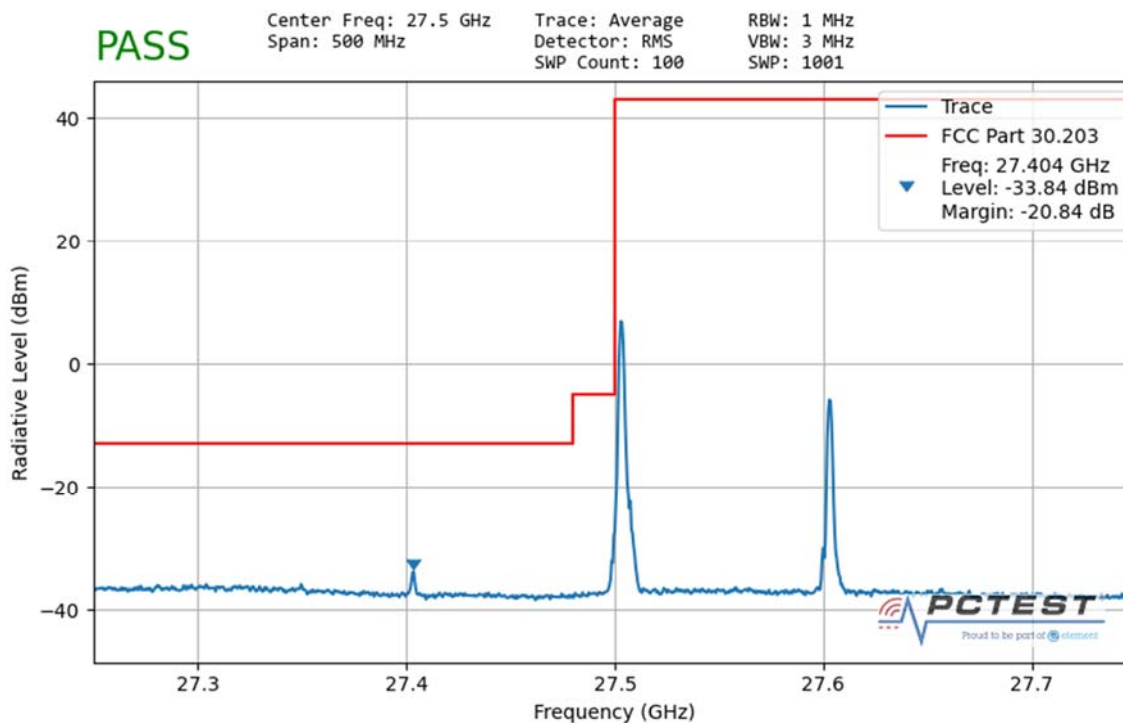


Plot 7-74. Ant 2 Upper Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 98 of 126

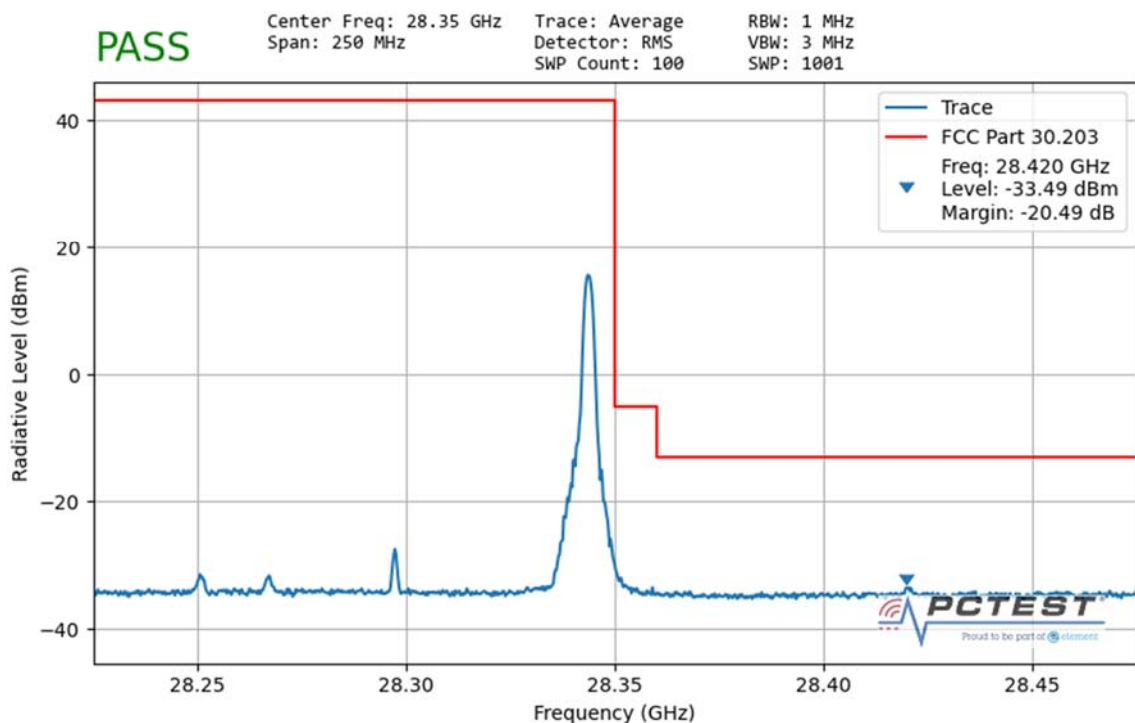


Plot 7-75. Ant 2 Lower Band Edge (100MHz-1CC – QPSK 1 RB)

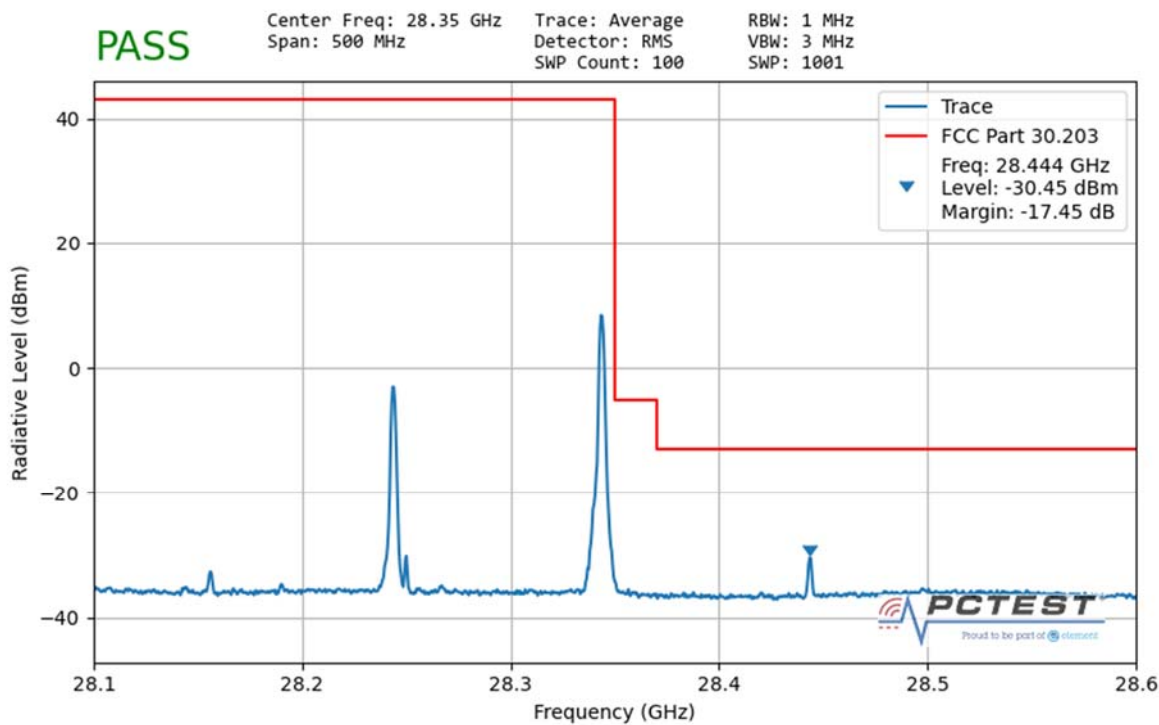


Plot 7-76. Ant 2 Lower Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 99 of 126

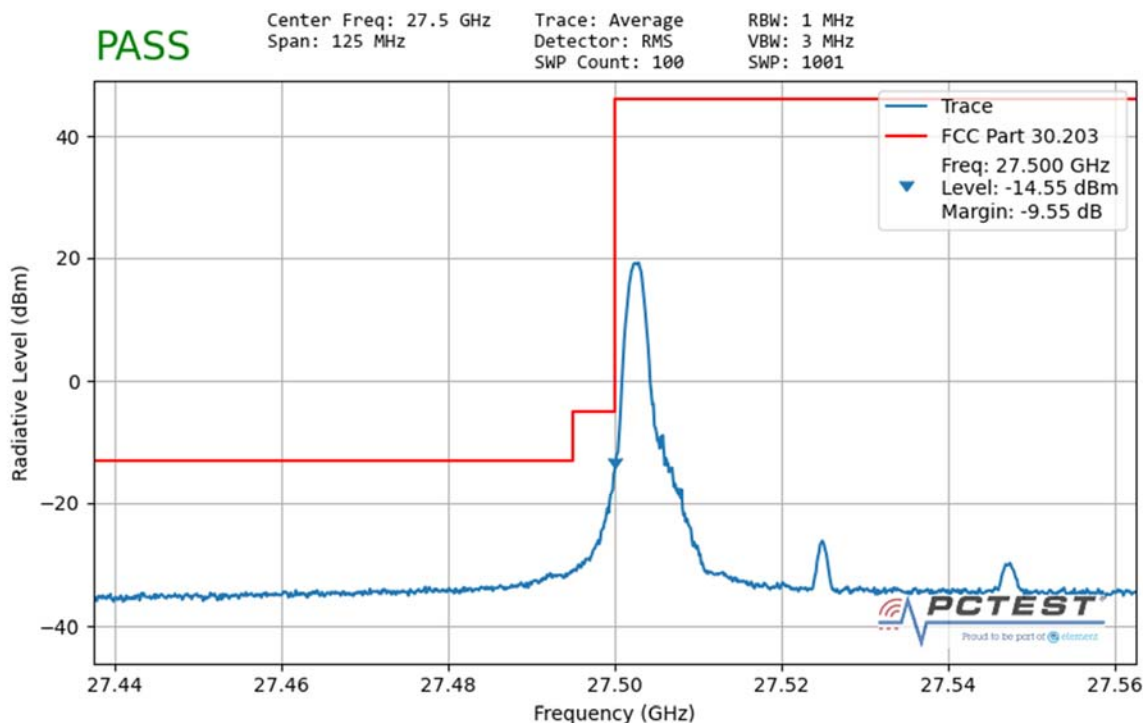


Plot 7-77. Ant 2 Upper Band Edge (100MHz-1CC – QPSK 1 RB)

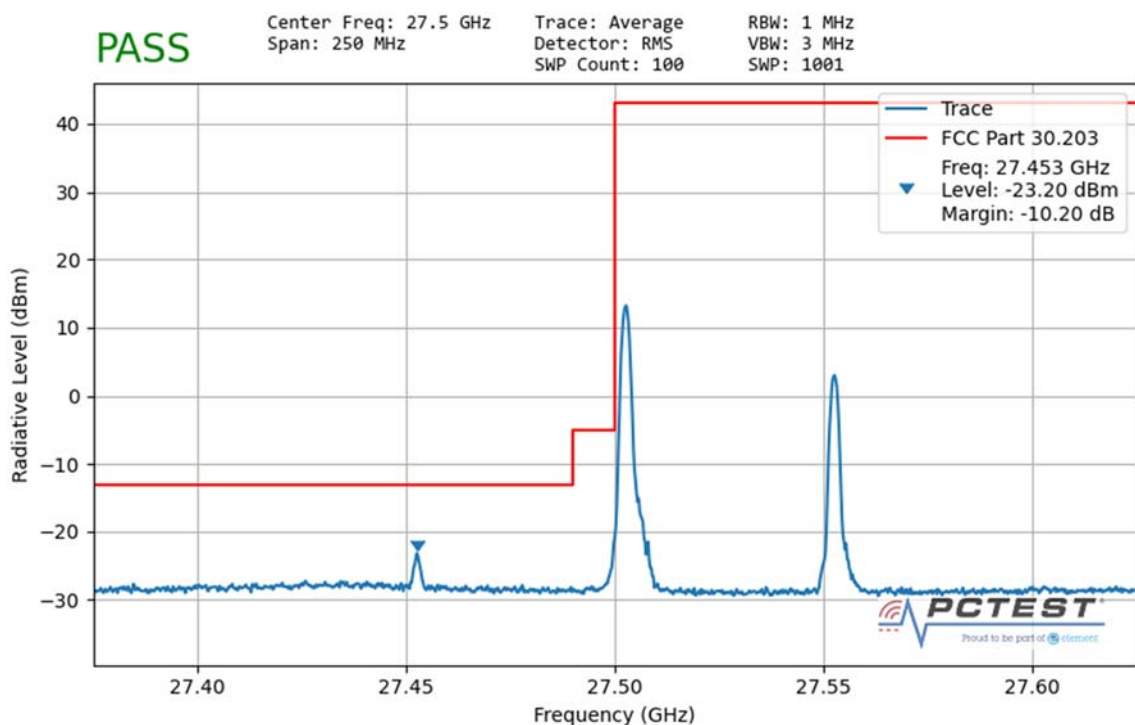


Plot 7-78. Ant 2 Upper Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 100 of 126

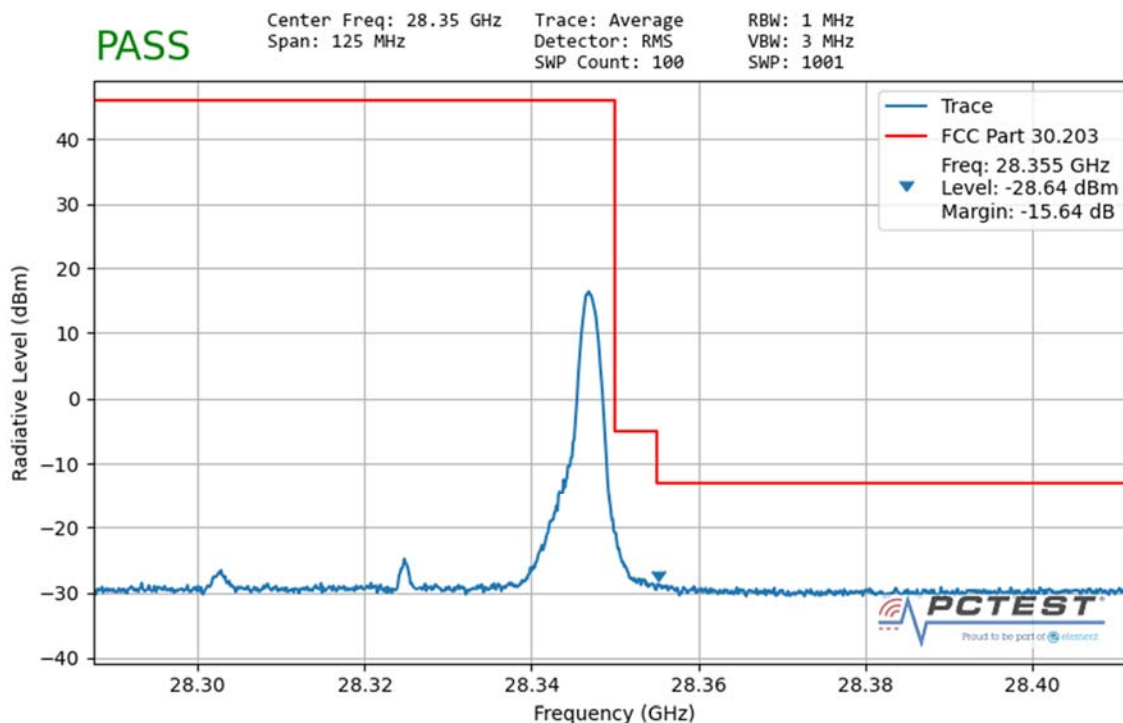


Plot 7-71. Ant 3 Lower Band Edge (50MHz-1CC – QPSK 1 RB)

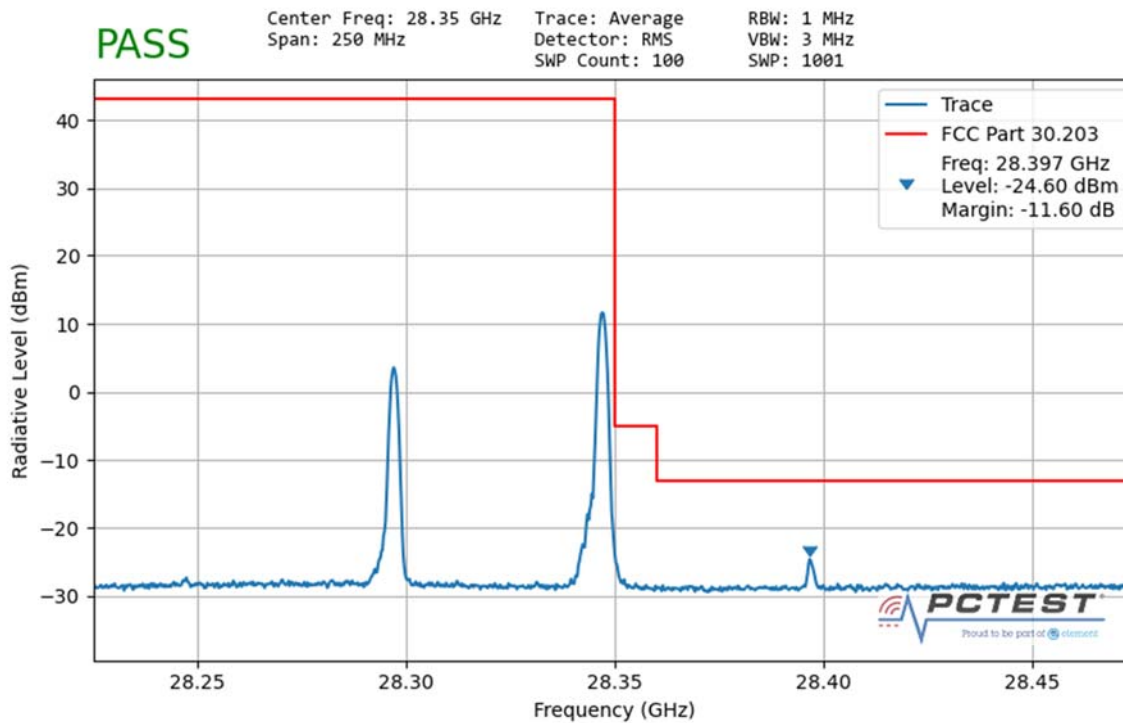


Plot 7-72. Ant 3 Lower Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 101 of 126

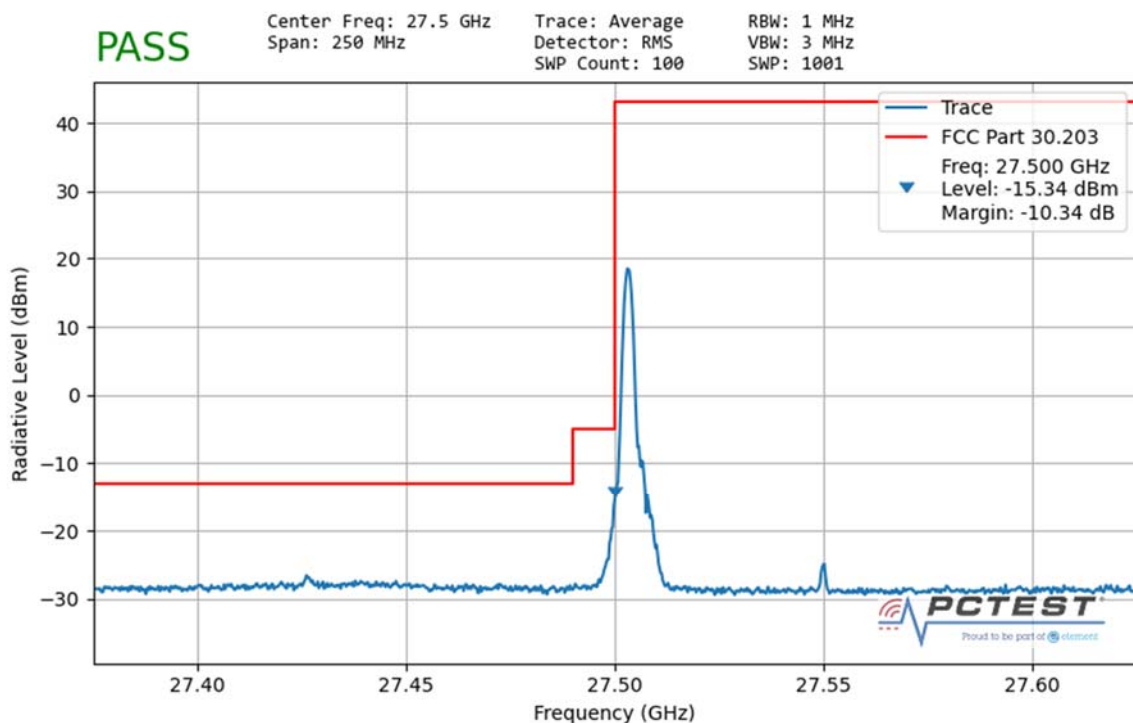


Plot 7-73. Ant 3 Upper Band Edge (50MHz-1CC – QPSK 1 RB)

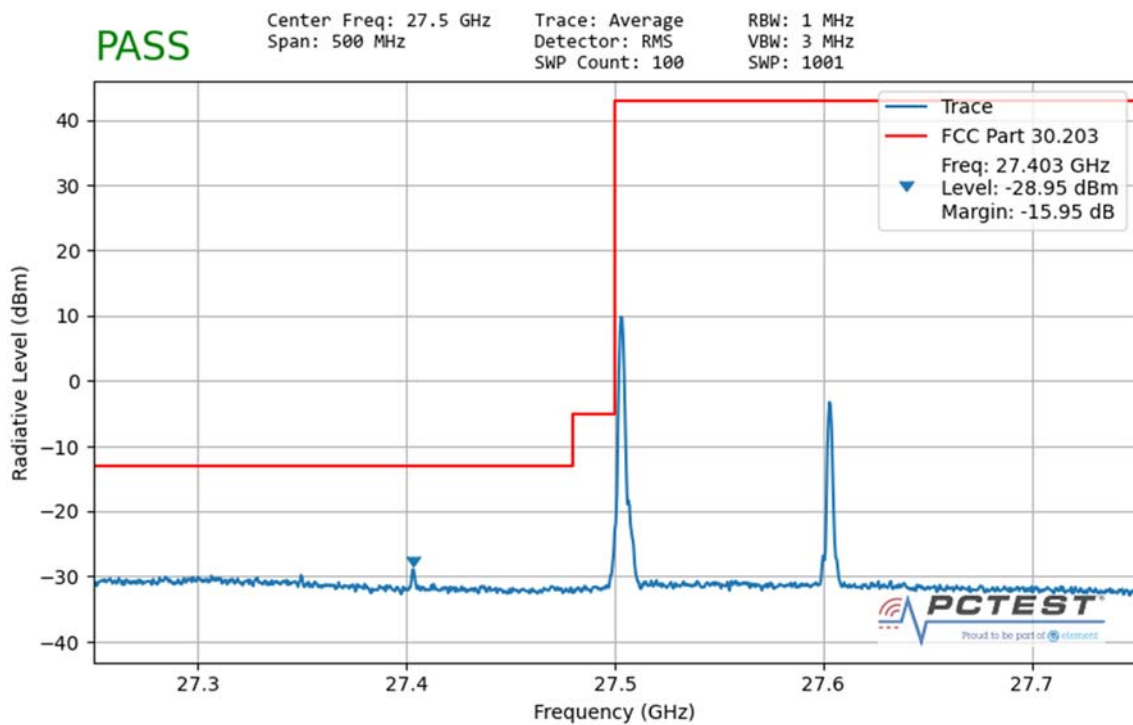


Plot 7-74. Ant 3 Upper Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 102 of 126

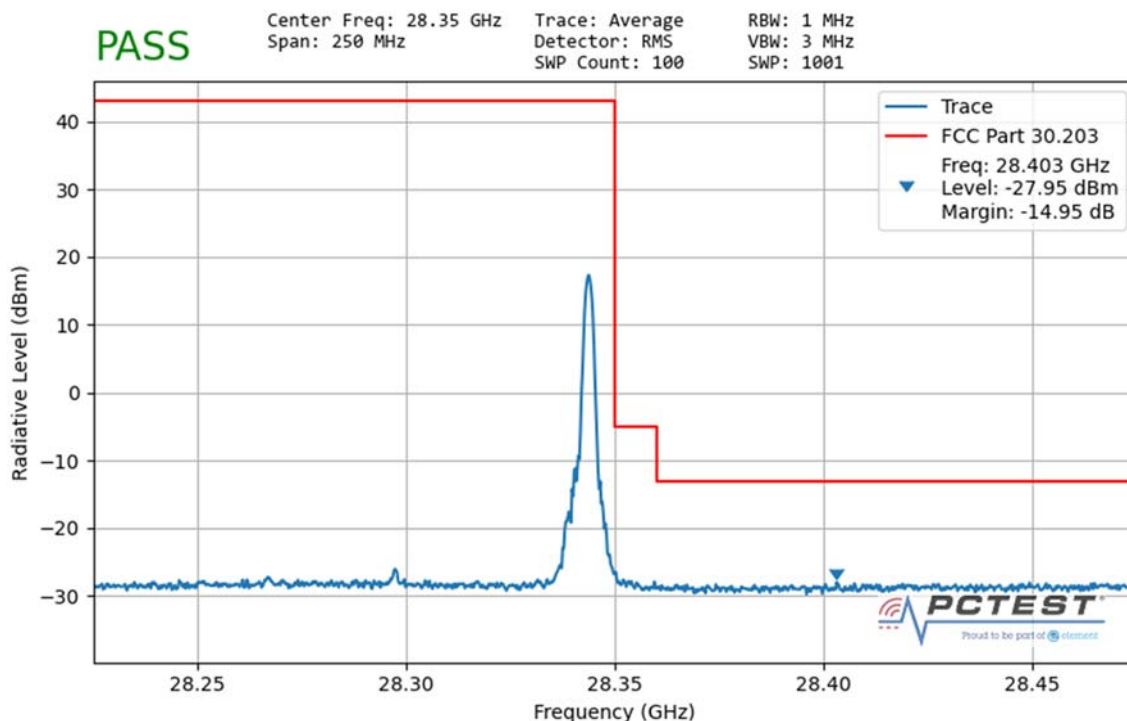


Plot 7-75. Ant 3 Lower Band Edge (100MHz-1CC – QPSK 1 RB)

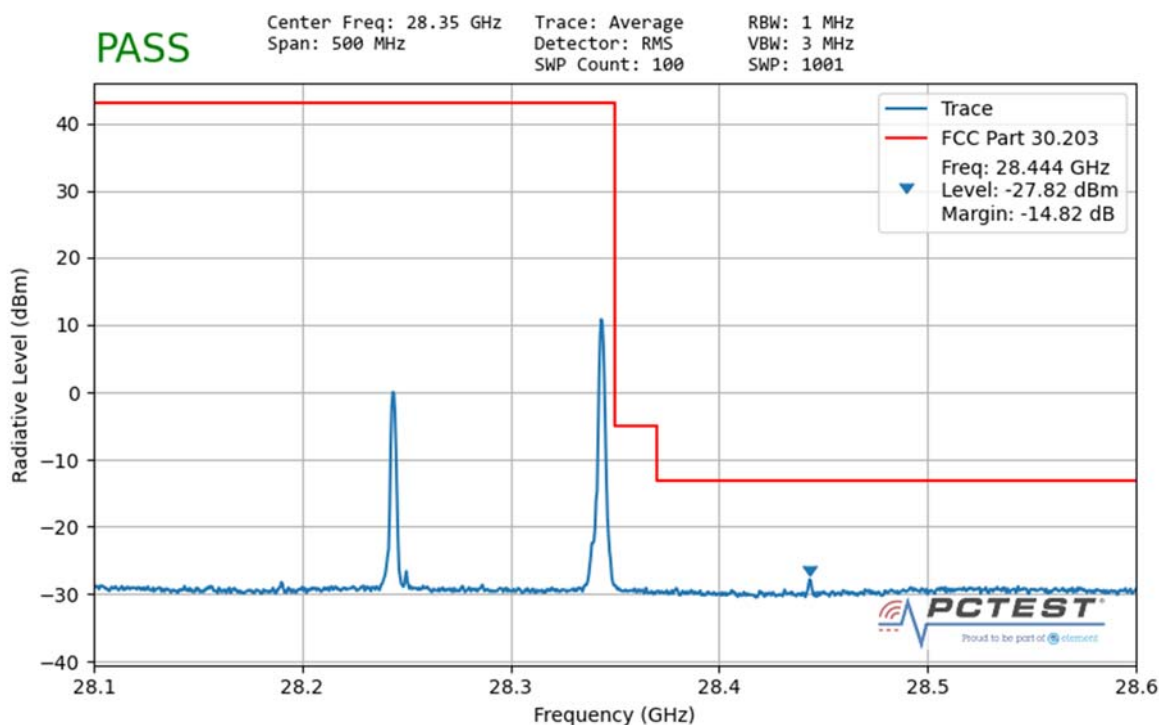


Plot 7-76. Ant 3 Lower Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 103 of 126



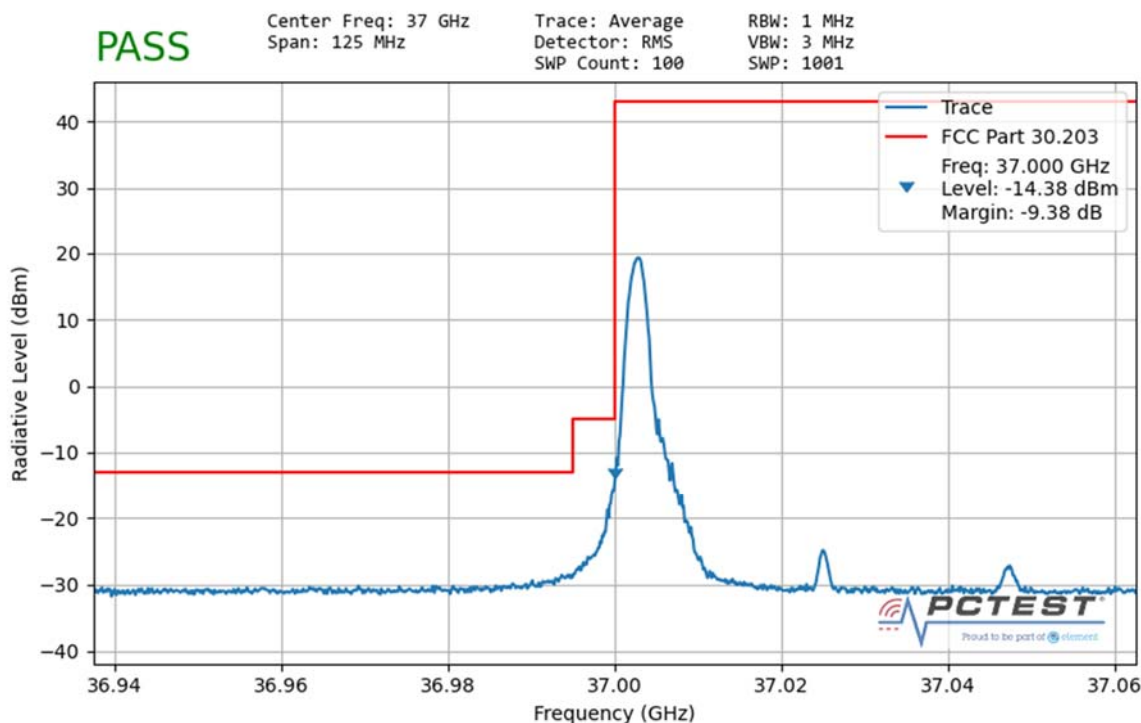
Plot 7-77. Ant 3 Upper Band Edge (100MHz-1CC – QPSK 1 RB)



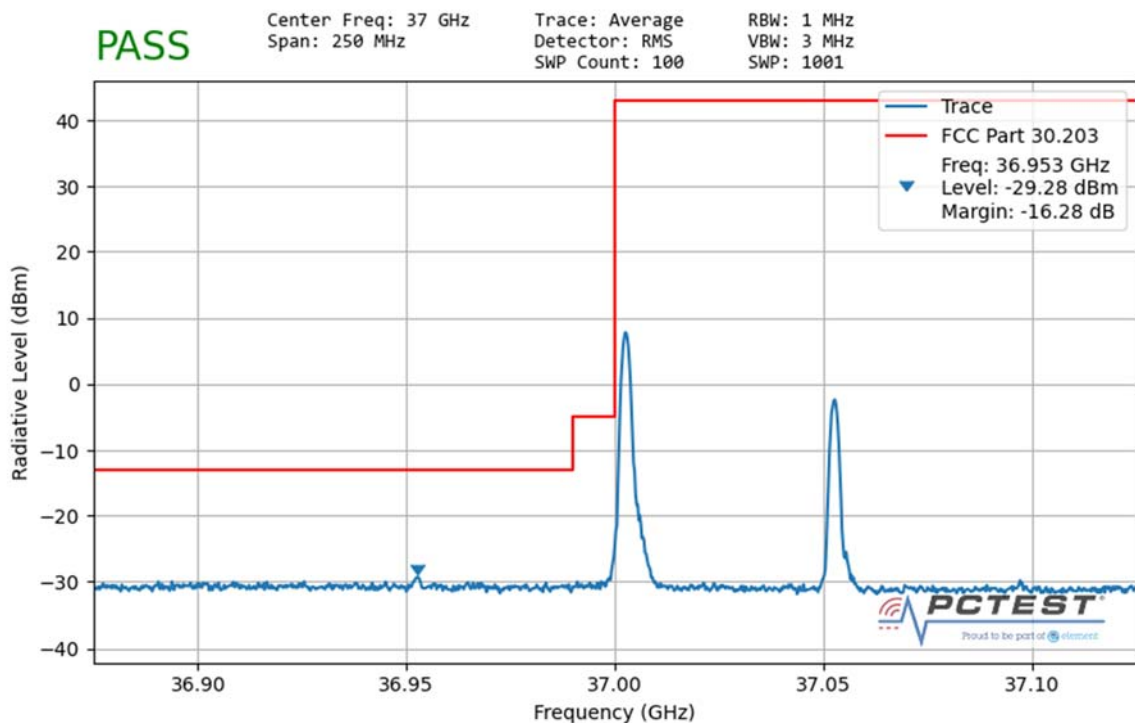
Plot 7-78. Ant 3 Upper Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 104 of 126

Band n260 – Worst Case

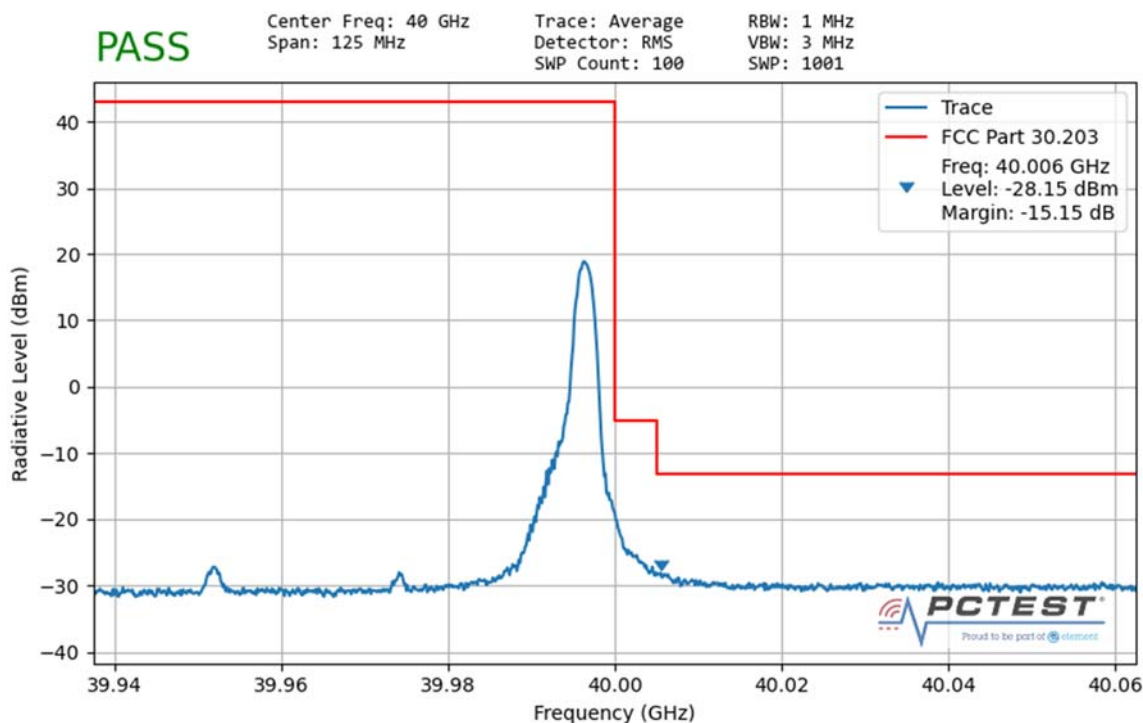


Plot 7-79. Ant 1 Lower Band Edge (50MHz-1CC – QPSK 1 RB)

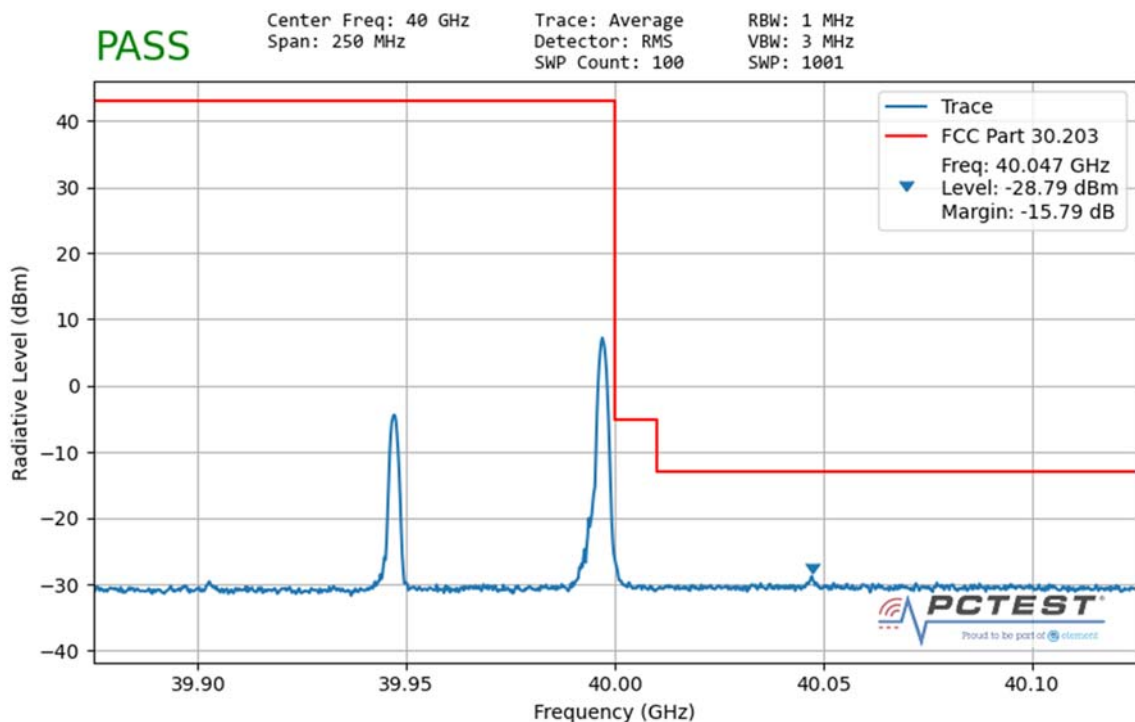


Plot 7-80. Ant 1 Lower Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 105 of 126

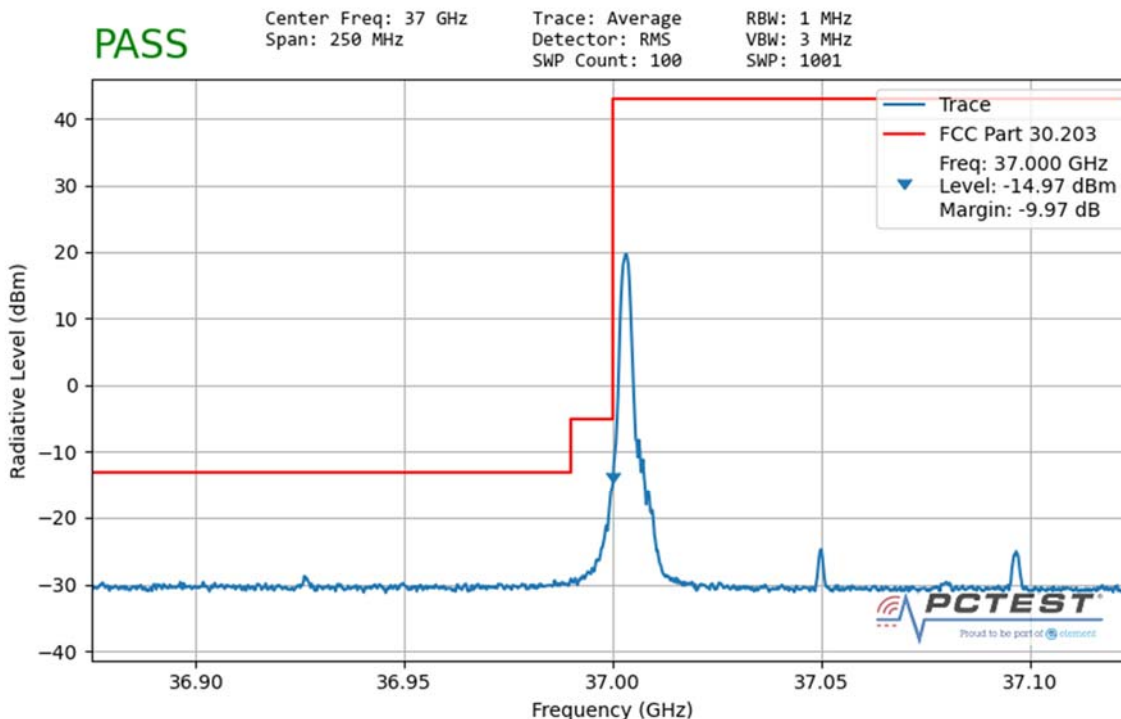


Plot 7-81. Ant 1 Upper Band Edge (50MHz-1CC – QPSK 1 RB)

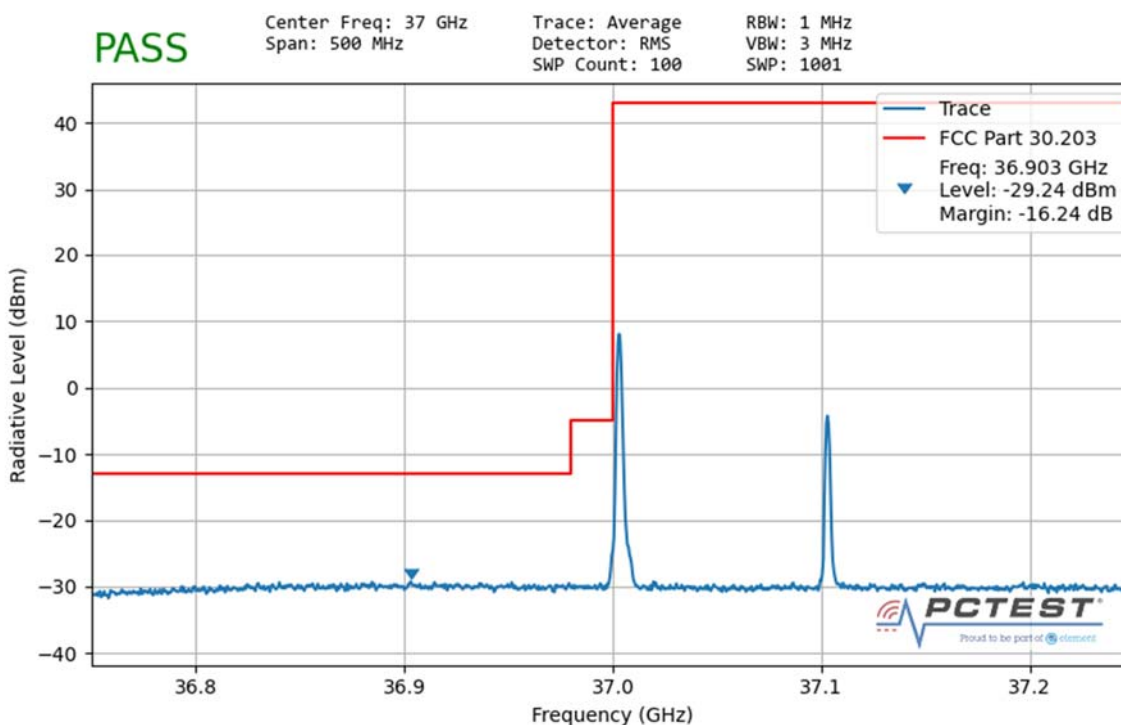


Plot 7-82. Ant 1 Upper Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 106 of 126

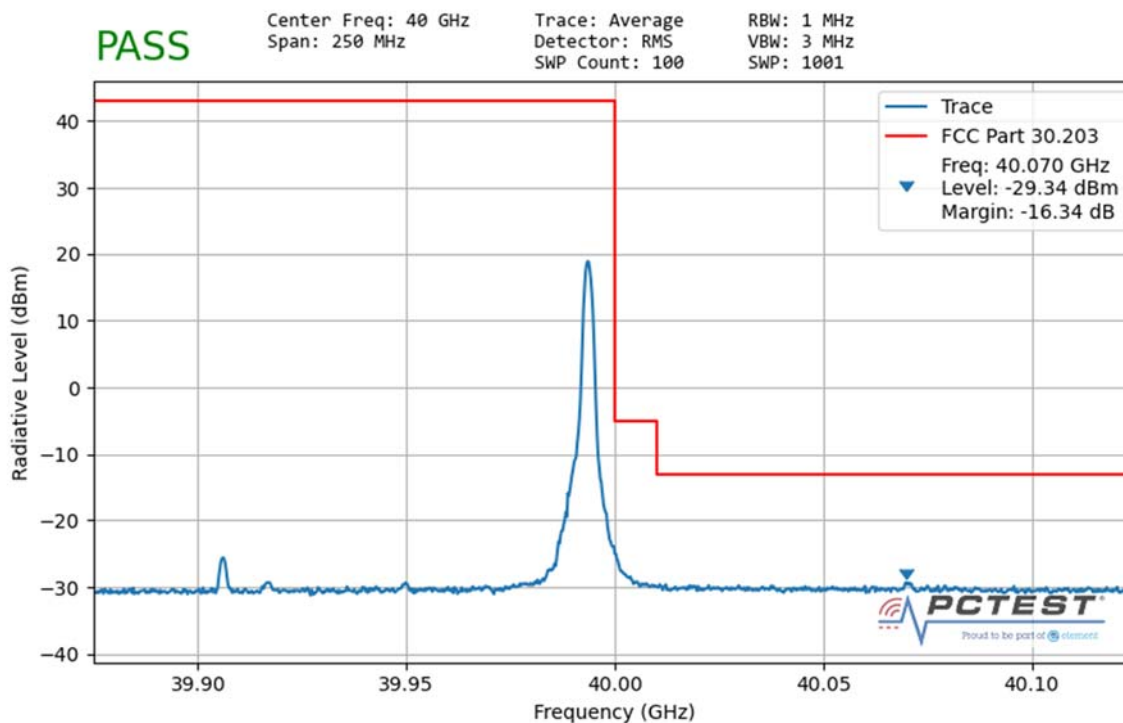


Plot 7-83. Ant 1 Lower Band Edge (100MHz-1CC – QPSK 1 RB)

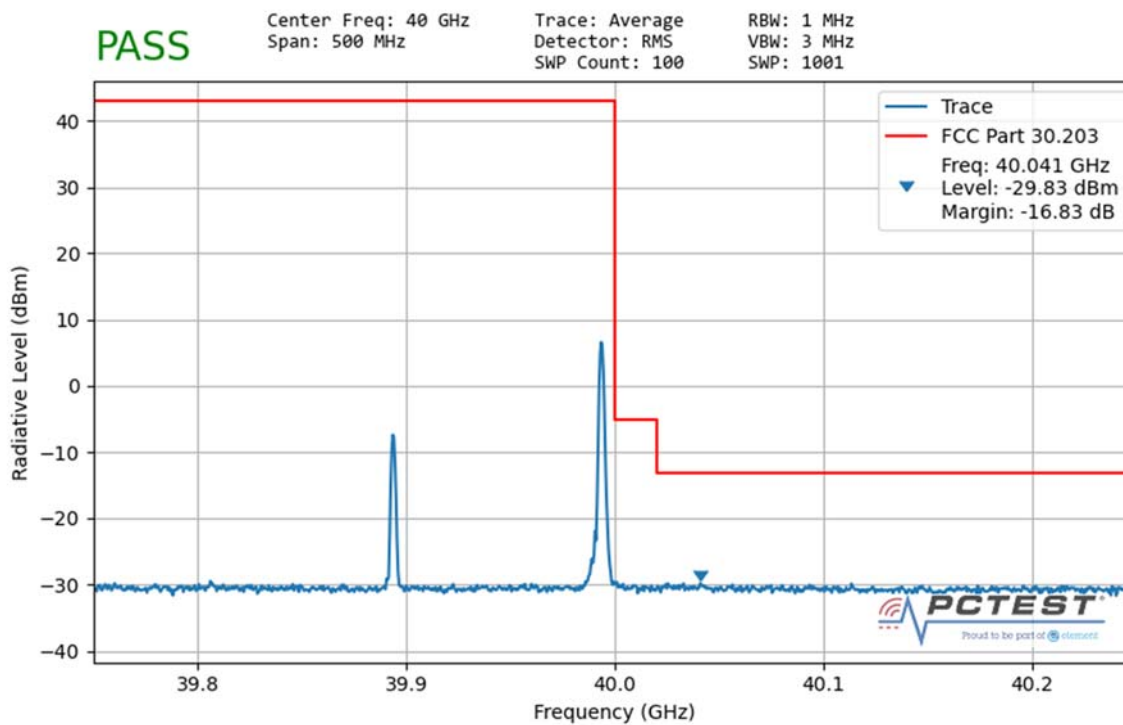


Plot 7-84. Ant 1 Lower Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 107 of 126

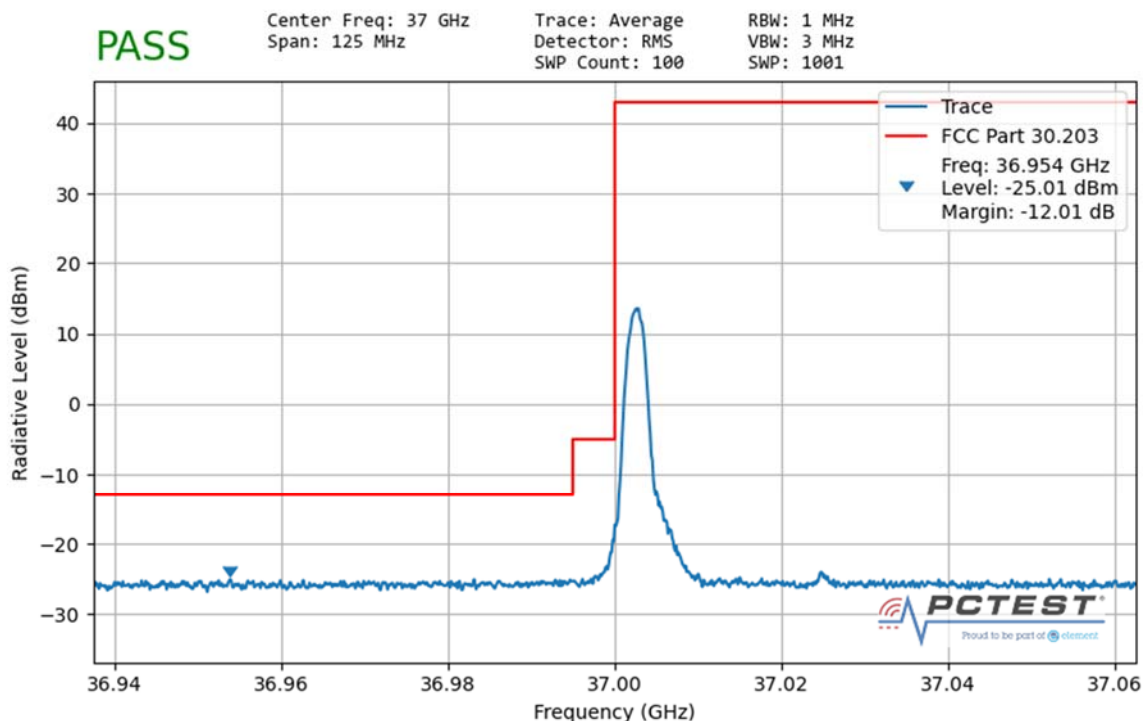


Plot 7-85. Ant 1 Upper Band Edge (100MHz-1CC – QPSK 1 RB)

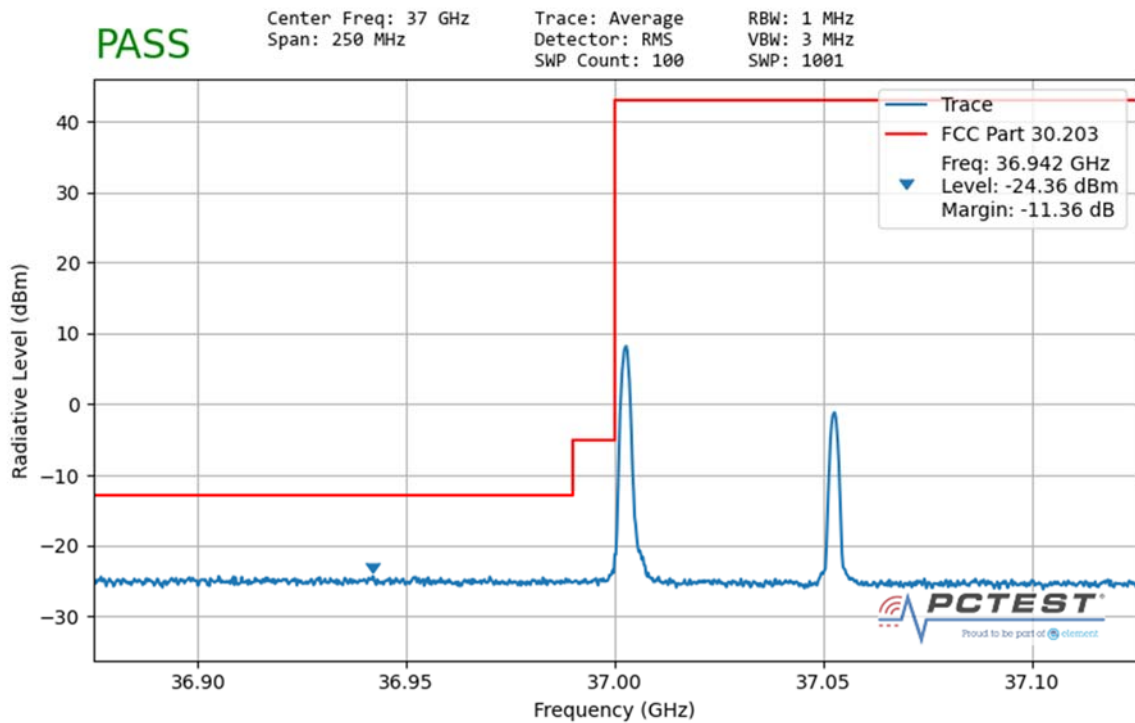


Plot 7-86. Ant 1 Upper Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 108 of 126

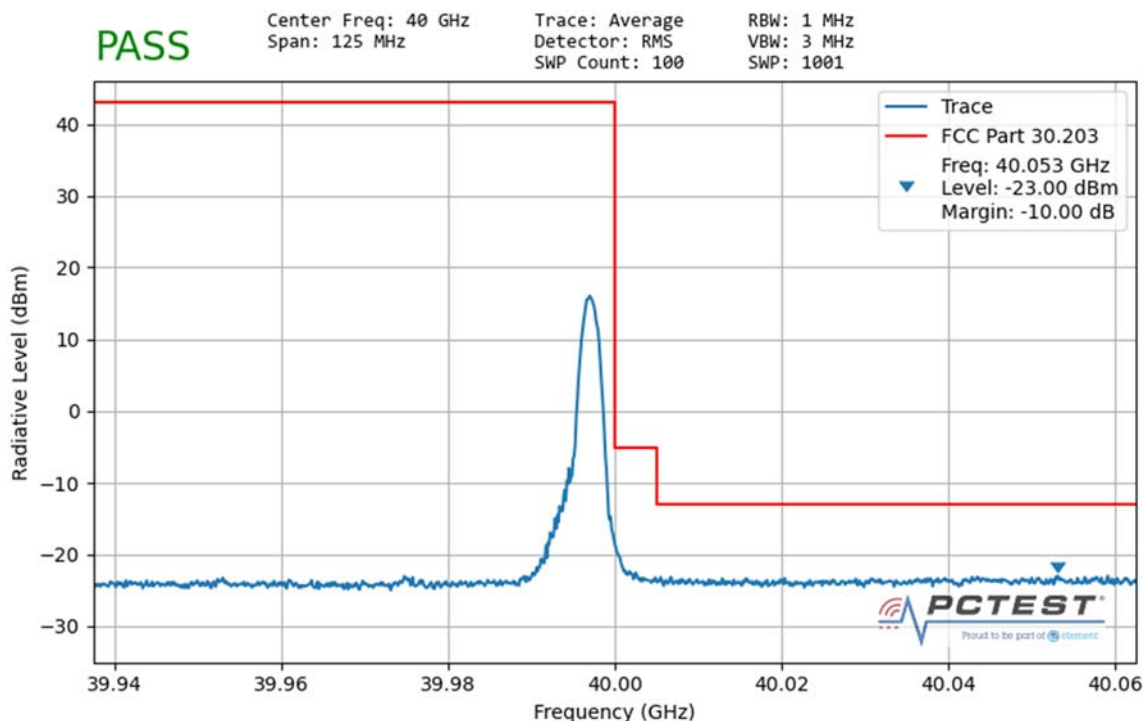


Plot 7-87. Ant 2 Lower Band Edge (50MHz-1CC – QPSK 1 RB)

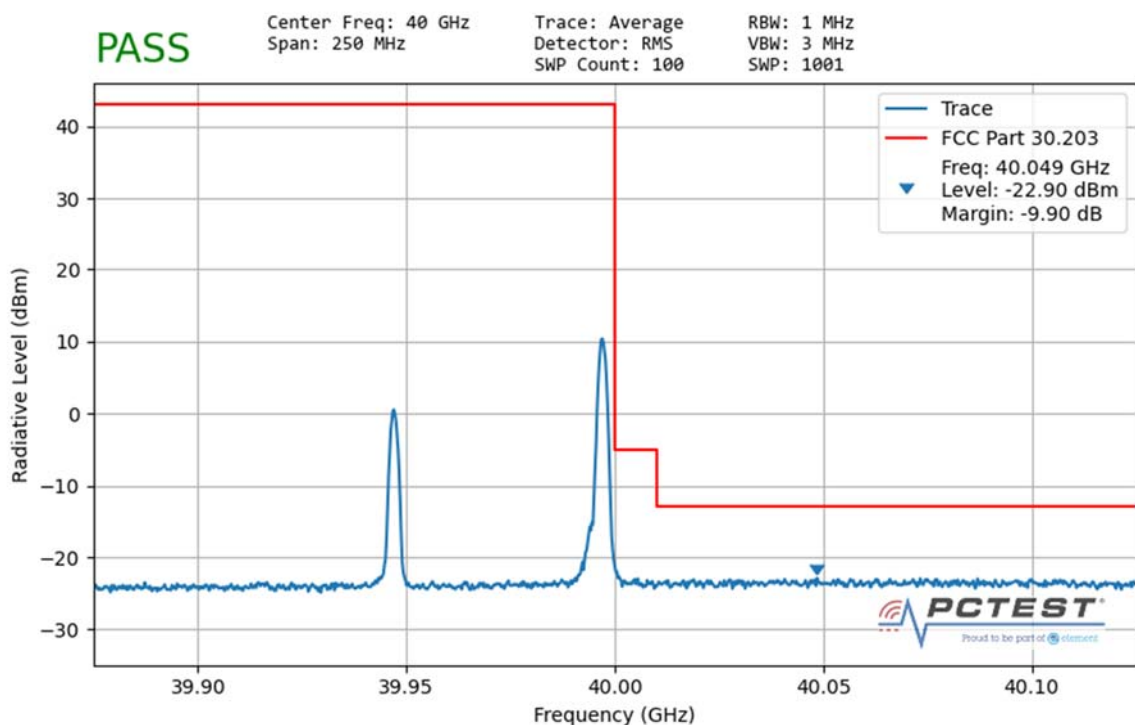


Plot 7-88. Ant 2 Lower Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 109 of 126

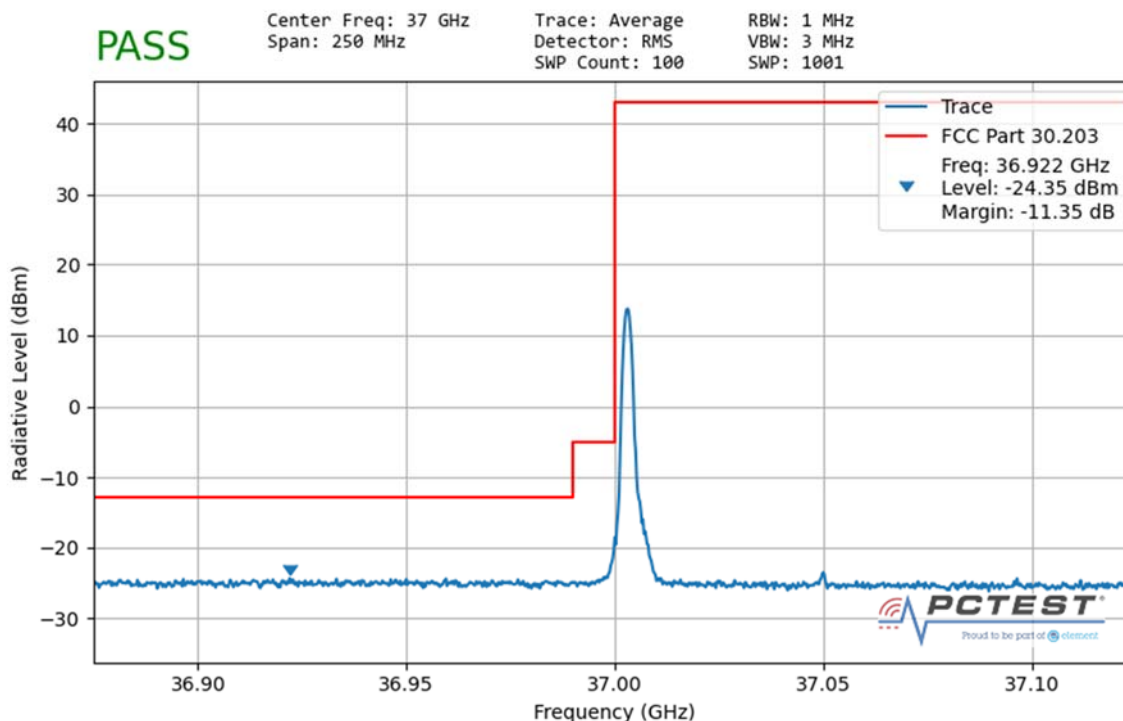


Plot 7-89. Ant 2 Upper Band Edge (50MHz-1CC – QPSK 1 RB)

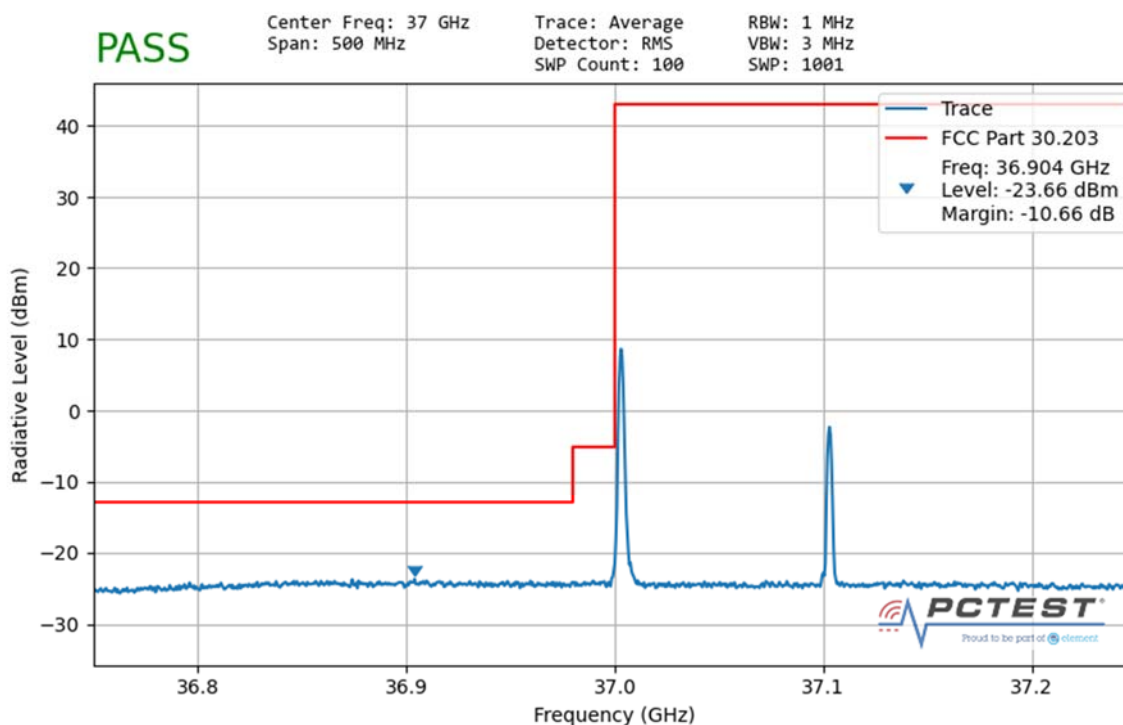


Plot 7-90. Ant 2 Upper Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 110 of 126

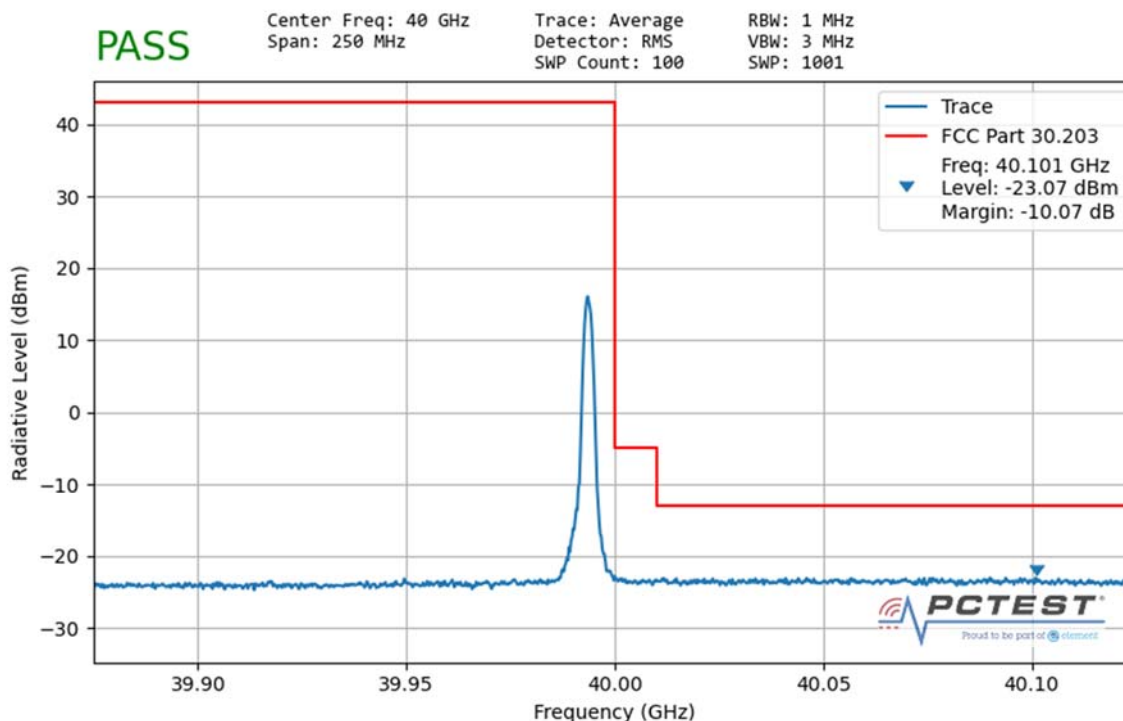


Plot 7-91. Ant 2 Lower Band Edge (100MHz-1CC – QPSK 1 RB)

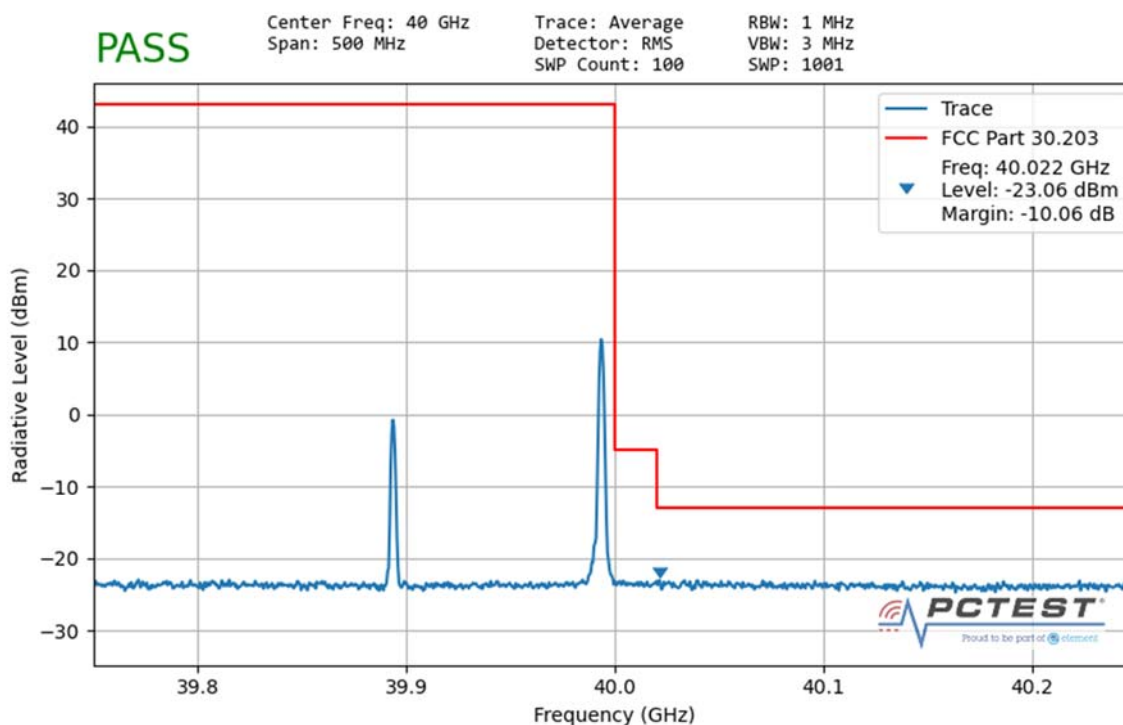


Plot 7-92. Ant 2 Lower Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 111 of 126

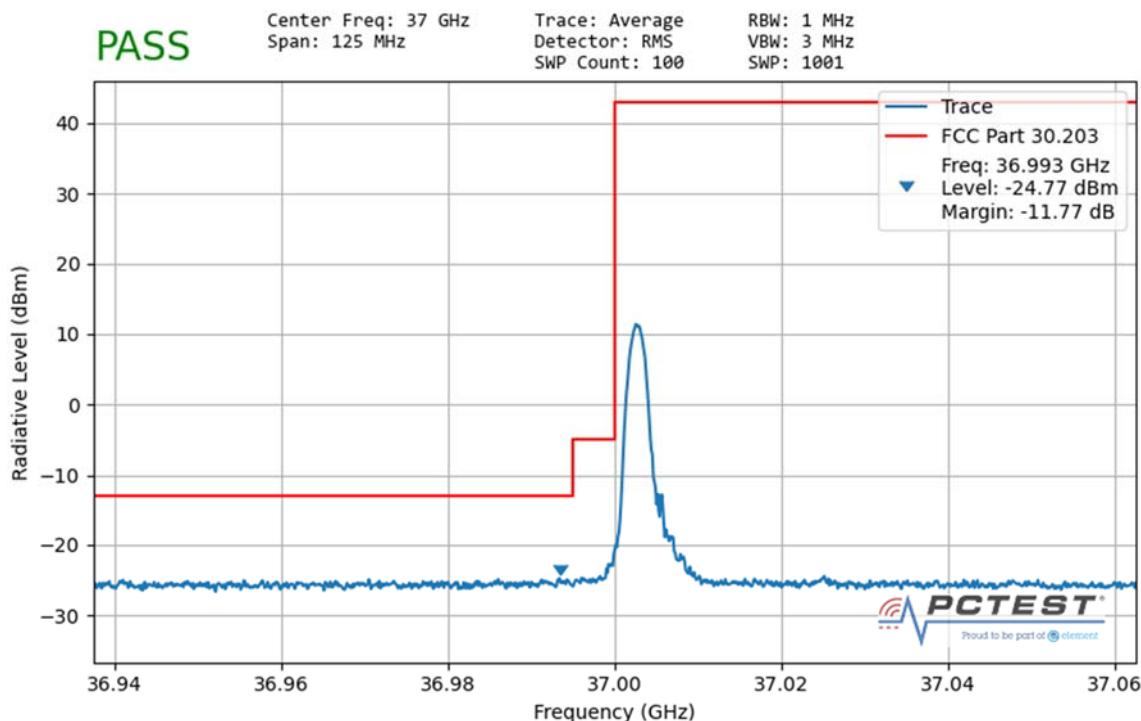


Plot 7-93. Ant 2 Upper Band Edge (100MHz-1CC – QPSK 1 RB)

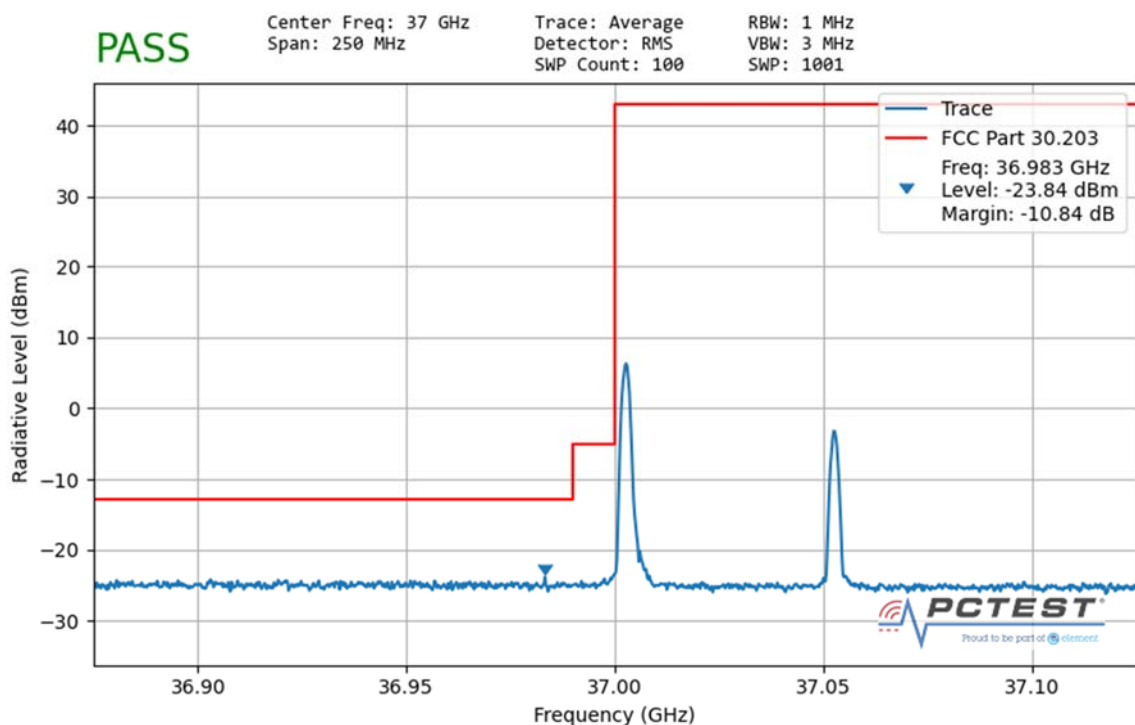


Plot 7-94. Ant 2 Upper Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 112 of 126

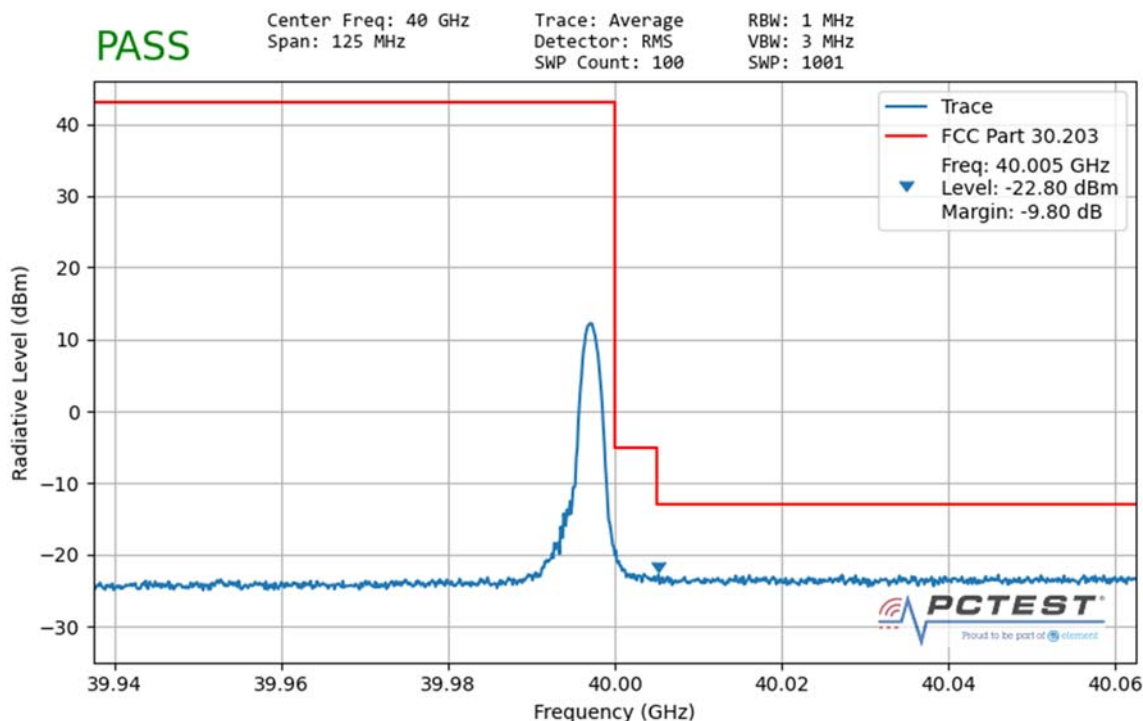


Plot 7-71. Ant 3 Lower Band Edge (50MHz-1CC – QPSK 1 RB)

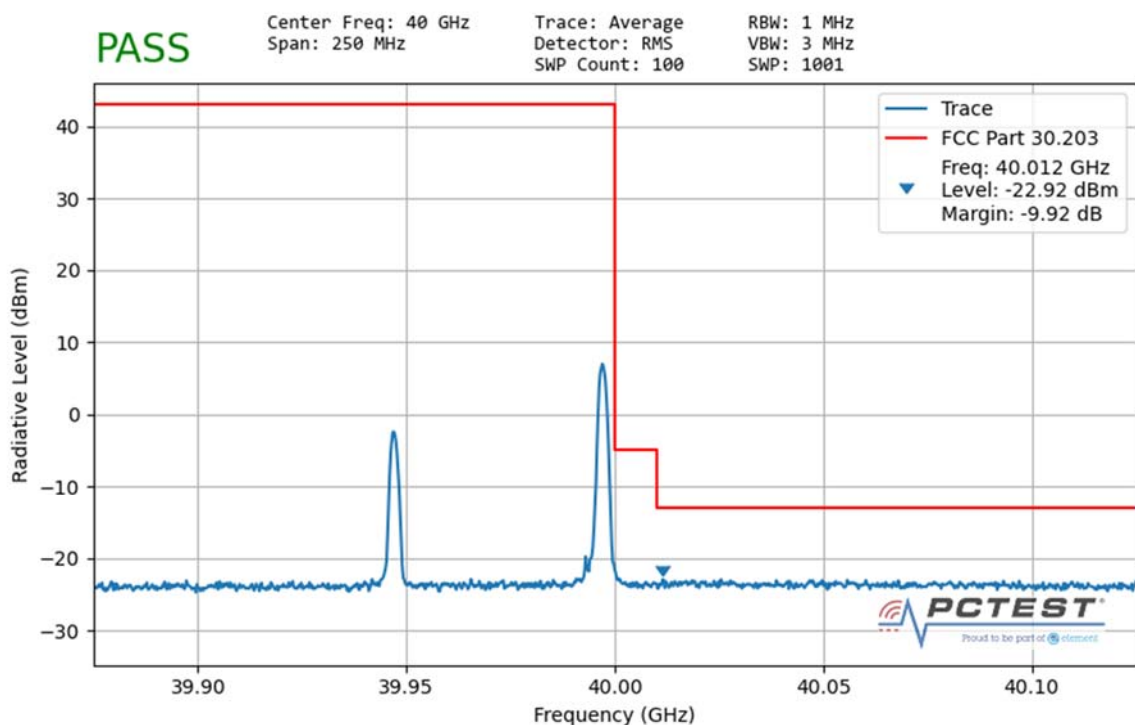


Plot 7-72. Ant 3 Lower Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 113 of 126

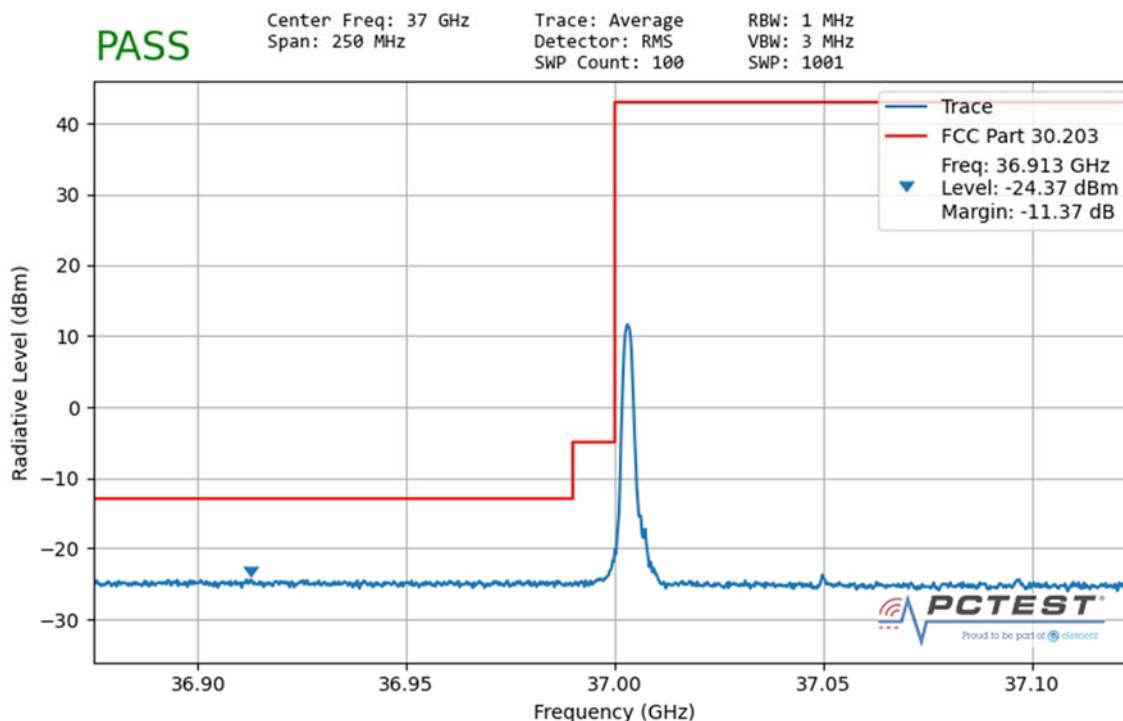


Plot 7-73. Ant 3 Upper Band Edge (50MHz-1CC – QPSK 1 RB)

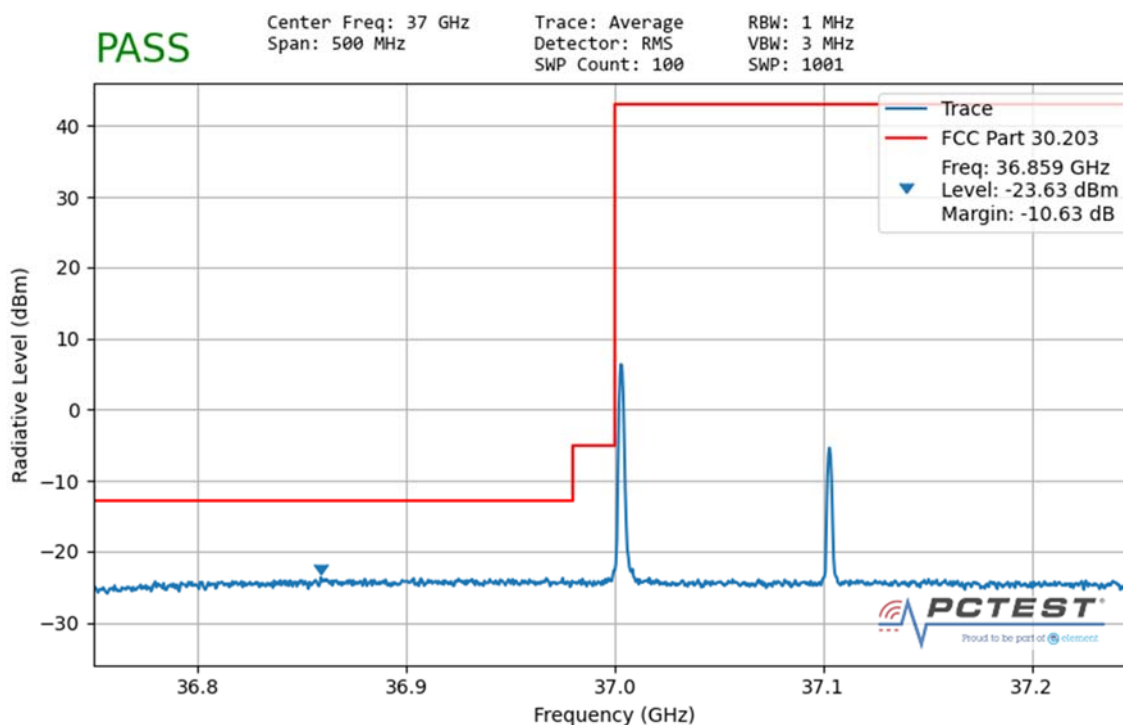


Plot 7-74. Ant 3 Upper Band Edge (50MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 114 of 126

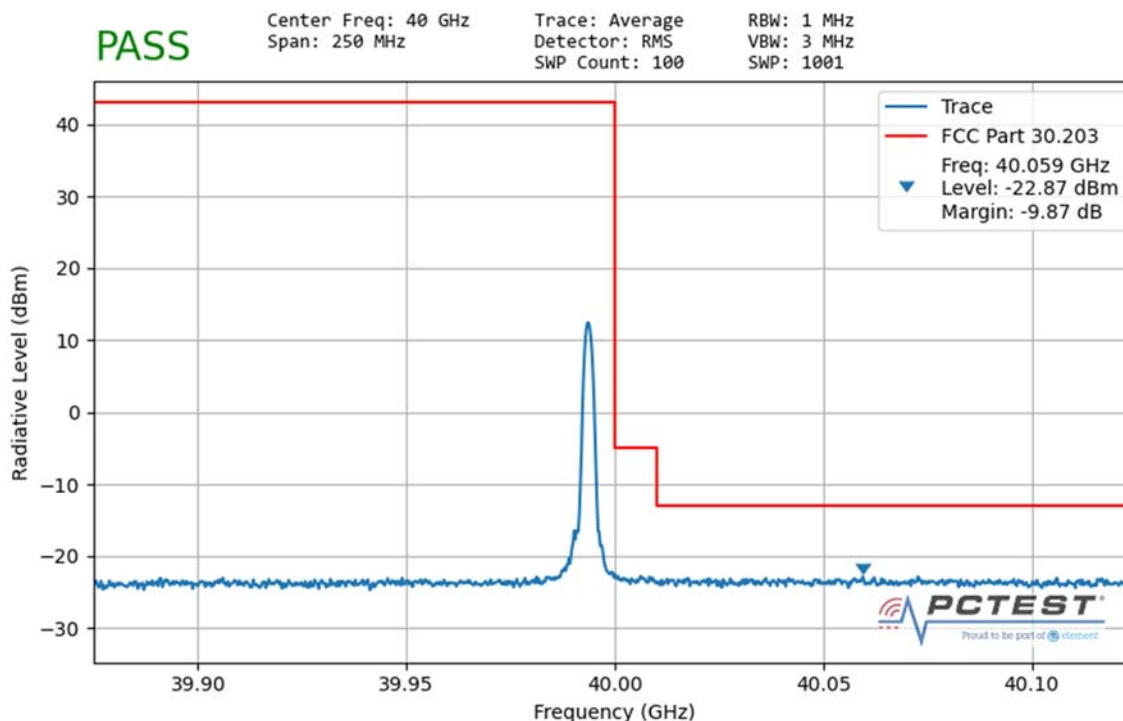


Plot 7-75. Ant 3 Lower Band Edge (100MHz-1CC – QPSK 1 RB)

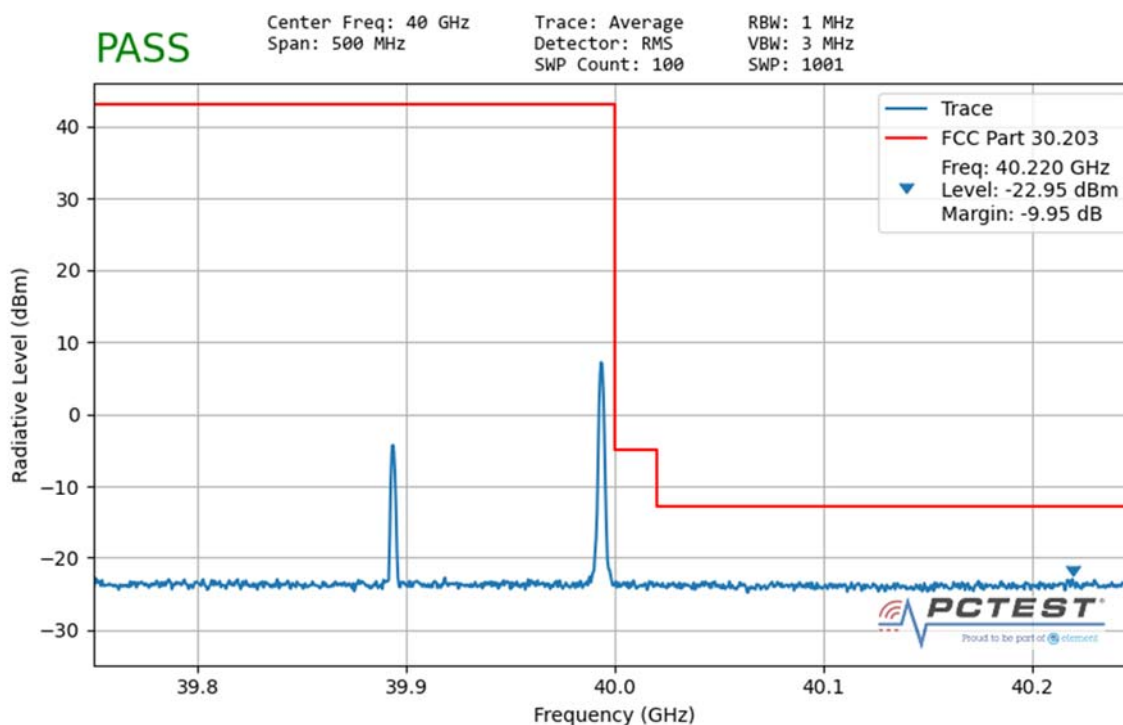


Plot 7-76. Ant 3 Lower Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 115 of 126



Plot 7-77. Ant 3 Upper Band Edge (100MHz-1CC – QPSK 1 RB)



Plot 7-78. Ant 3 Upper Band Edge (100MHz-2CC – QPSK 1 RB)

FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 116 of 126

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 v01r01 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. Using a foam plug, 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).

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability Measurements (Band n261)

\$2.1055

OPERATING FREQUENCY: 27,924,960,000 Hz
CHANNEL: 2077915
REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	27,924,959,798	-202	-0.0000007
100 %		- 20	27,924,960,448	448	0.0000016
100 %		- 10	27,924,959,738	-262	-0.0000009
100 %		0	27,924,959,764	-236	-0.0000008
100 %		+ 10	27,924,959,785	-215	-0.0000008
100 %		+ 20	27,924,960,181	181	0.0000006
100 %		+ 30	27,924,960,452	452	0.0000016
100 %		+ 40	27,924,960,088	88	0.0000003
100 %		+ 50	27,924,960,159	159	0.0000006
85 %		+ 20	27,924,960,272	272	0.0000010
BATT. ENDPOINT	2.90	+ 20	27,924,960,093	93	0.0000003

Table 7-55. 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.

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Frequency Stability Measurements (Band n261)

§2.1055

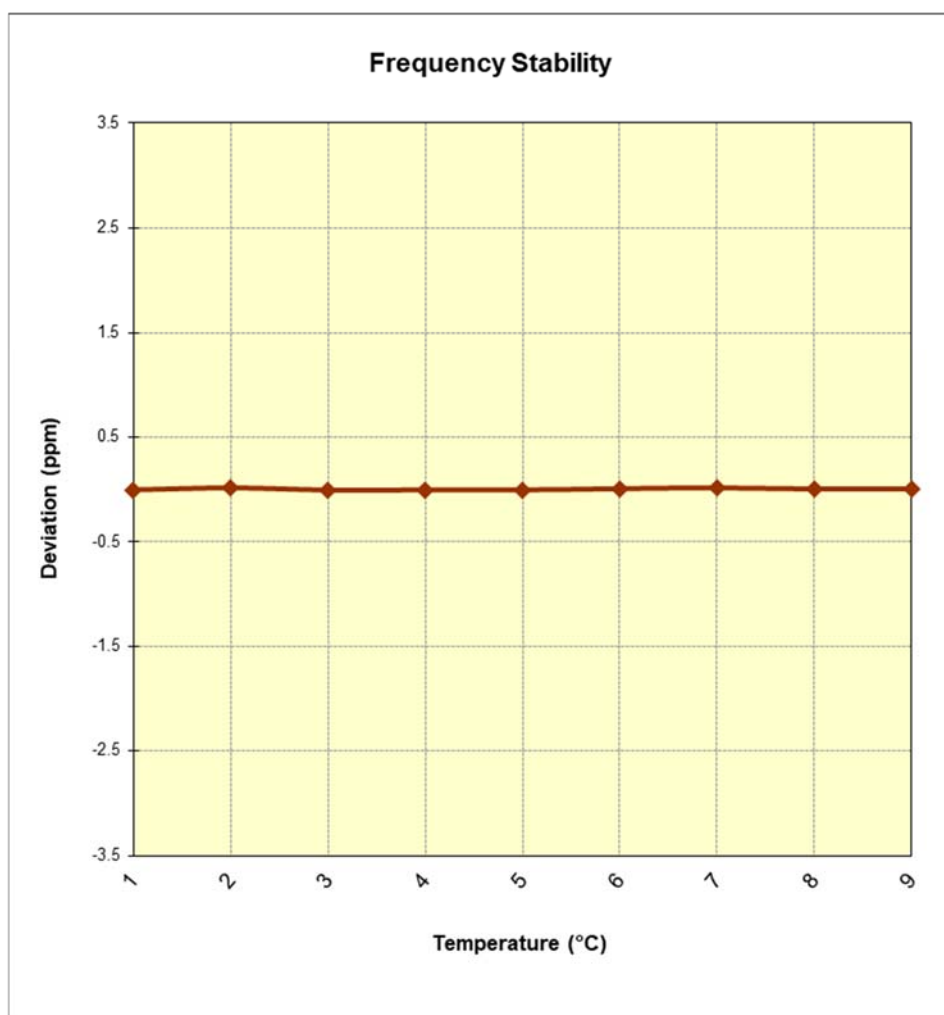


Figure 7-1. Frequency Stability Graph (n261)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability Measurements (Band n260)

\$2.1055

OPERATING FREQUENCY: 38,499,960,000 Hz
CHANNEL: 2254165
REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	38,499,959,783	-217	-0.0000006
100 %		- 20	38,499,960,391	391	0.0000010
100 %		- 10	38,499,960,357	357	0.0000009
100 %		0	38,499,959,918	-82	-0.0000002
100 %		+ 10	38,499,959,904	-96	-0.0000002
100 %		+ 20	38,499,960,146	146	0.0000004
100 %		+ 30	38,499,960,257	257	0.0000007
100 %		+ 40	38,499,960,021	21	0.0000001
100 %		+ 50	38,499,960,071	71	0.0000002
85 %		+ 20	38,499,959,791	-209	-0.0000005
BATT. ENDPOINT	2.90	+ 20	38,499,960,094	94	0.0000002

Table 7-56. 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.

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Frequency Stability Measurements (Band n260)

§2.1055

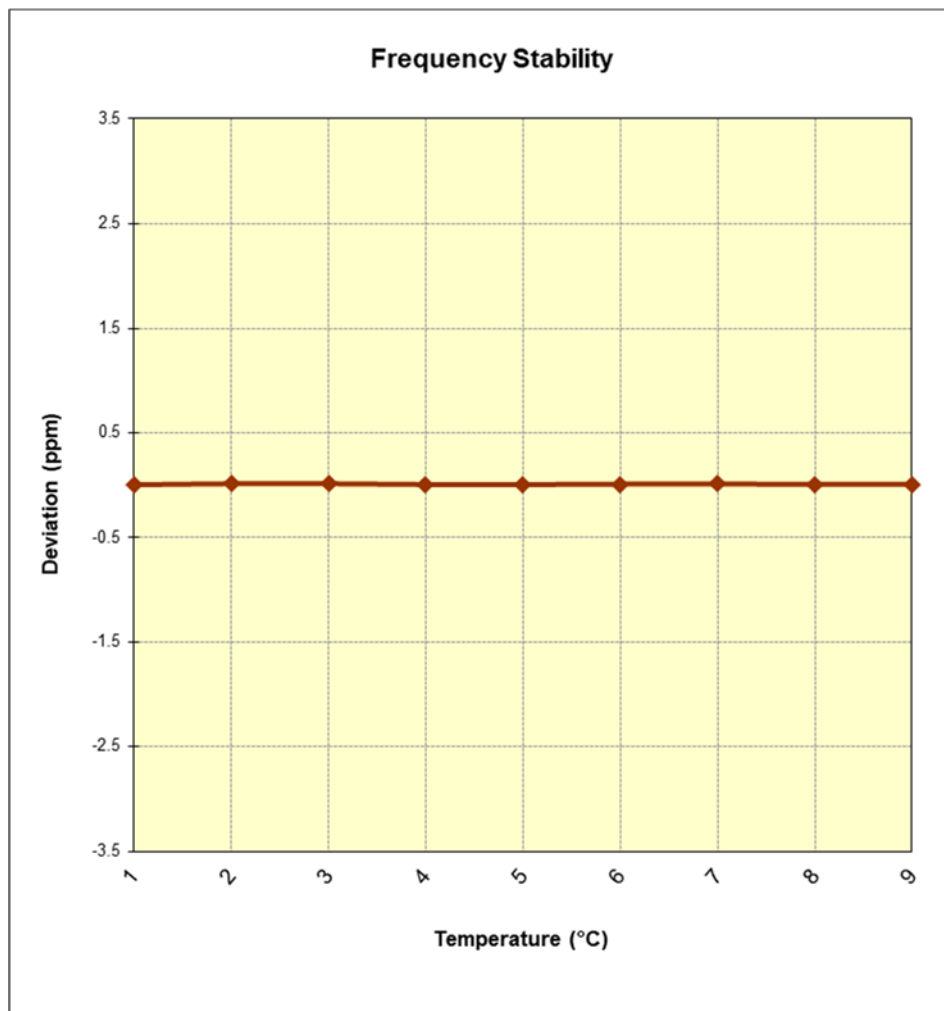


Figure 7-2. Frequency Stability Graph (n260)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset** **FCC ID: ZNFG900VM** complies with all the requirements of Part 30.

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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

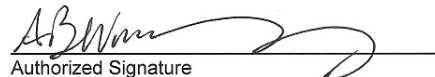
From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

Packing List No: 193065

Today's Date: 10/02/19

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR19.0SAX WR19SAX / SN: SAX 411	19329-01

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

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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
6660-B Dobbin Road
Columbia, MD 21045
United States

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

Shipping Date: 05/14/18

Today's Date: 05/14/18

Quantity		
Shipped	Unit	Description
1	EA	VDIWR12.0SAX WR12SAX - Spectrum Analyzer Extension Module / SN: SAX 252

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

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FCC ID: ZNFG900VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-07.ZNF	Test Dates: 6/2/2020-7/28/2020	EUT Type: Portable Handset		Page 124 of 126



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To: PCTEST Engineering Laboratory
6660-B Dobbin Road
Columbia, MD 21045
United States

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

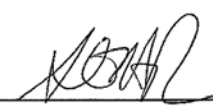
Shipping Date: 05/08/18

Today's Date: 05/08/18

Quantity

Shipped	Unit	Description
1	EA	VDIWR8.0SAX WR8.0SAX - Spectrum Analyzer Extension Module; SN: SAX 253.

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

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FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Virginia Diodes, Inc
979 2nd St. SE
Suite 309
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Certificate of Conformance

To: PCTEST Engineering Laboratory
6660-B Dobbin Road
Columbia, MD 21045
United States

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

Shipping Date: 05/21/18	Today's Date: 05/22/18
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Quantity	Shipped	Unit	Description
	1	EA	VDIWR5.1SAX WR5.1SAX - Spectrum Analyzer Extension Module; SN: SAX 254.

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

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