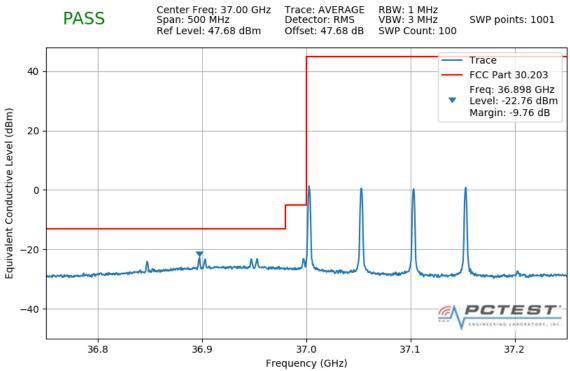


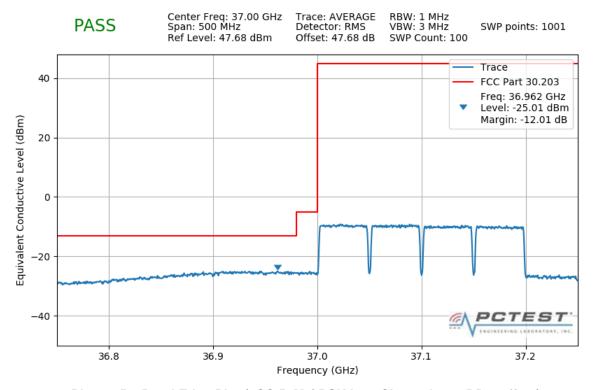
Plot 7-452. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕑 LG	Approved by: Quality Manager
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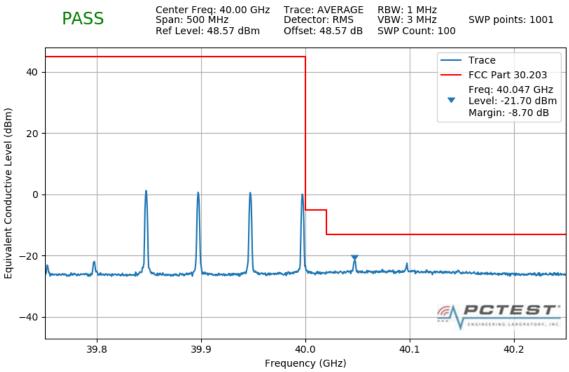




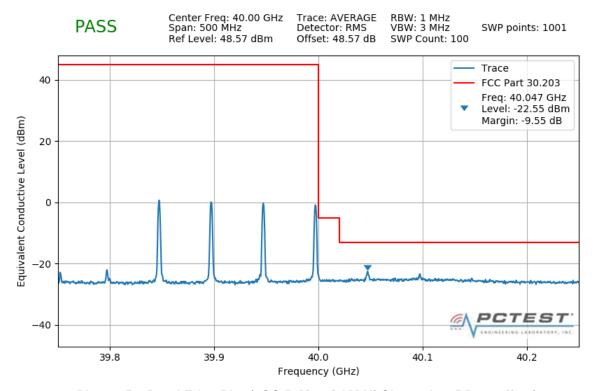
Plot 7-454. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 205 of 204
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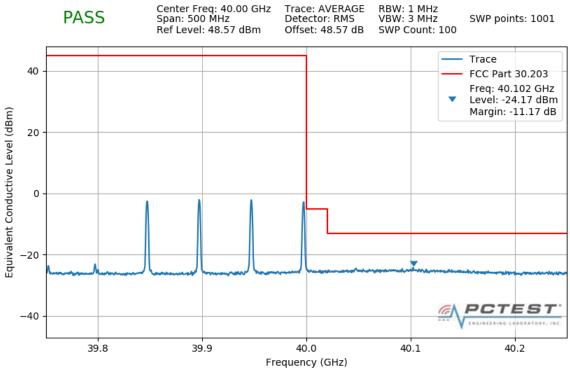


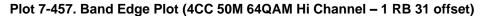


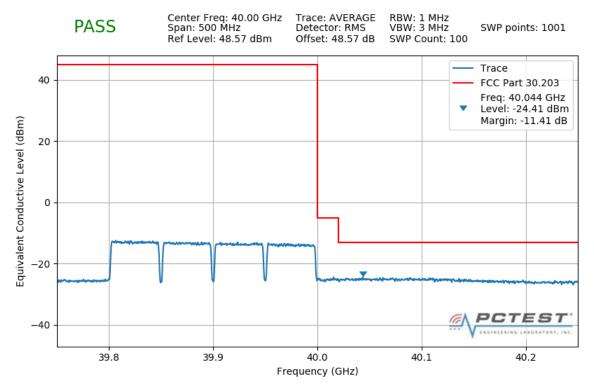
Plot 7-456. Band Edge Plot (4CC 50M 16QAM Hi Channel- 1 RB 31 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 200 of 204
1M1901150005-14-R2.ZNF	1/21 -4/26/2019	Portable Handset		Page 266 of 304
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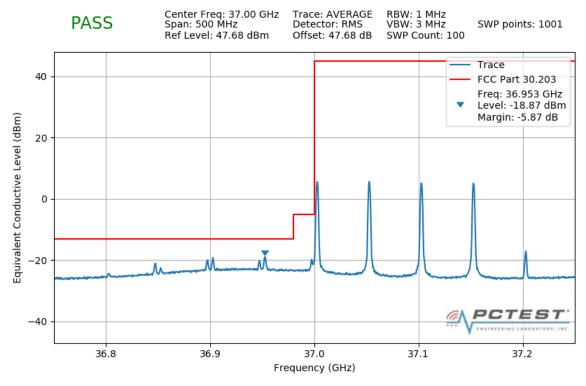




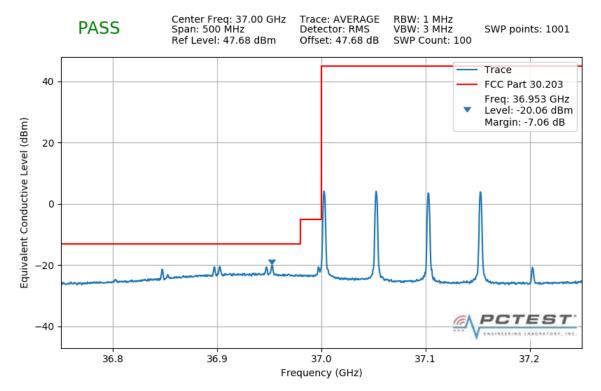


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	ì	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 267 of 204
1M1901150005-14-R2.ZNF	1/21 -4/26/2019	Portable Handset		Page 267 of 304
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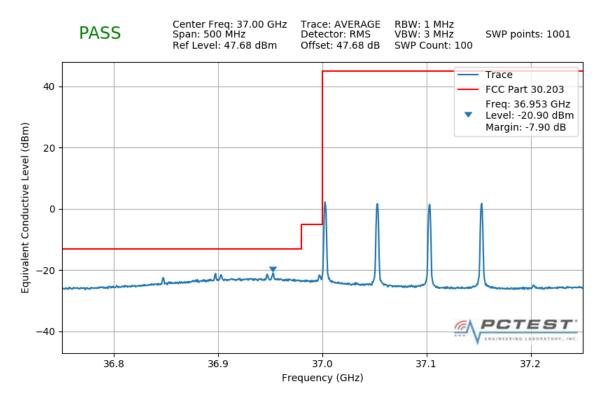




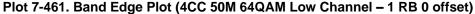


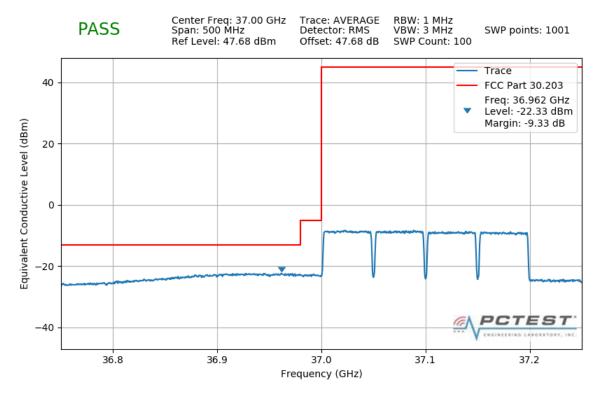
Plot 7-460. Band Edge Plot (4CC 50M 16QAM Low Channel - 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Baga 268 of 204
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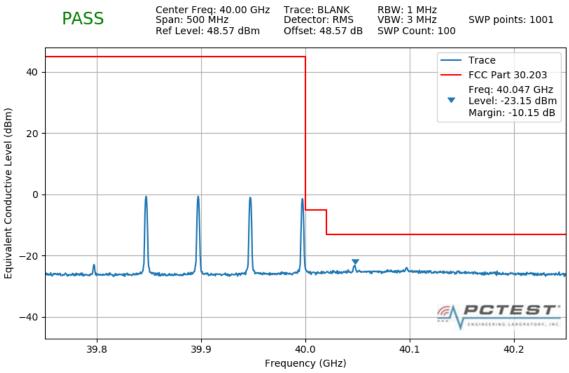




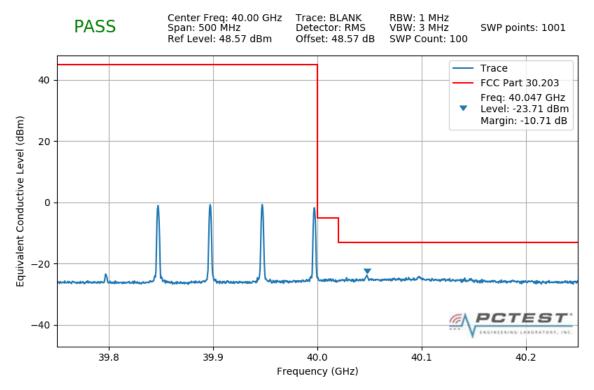


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Baga 260 of 204
1M1901150005-14-R2.ZNF	1/21 -4/26/2019	Portable Handset	Page 269 of 304
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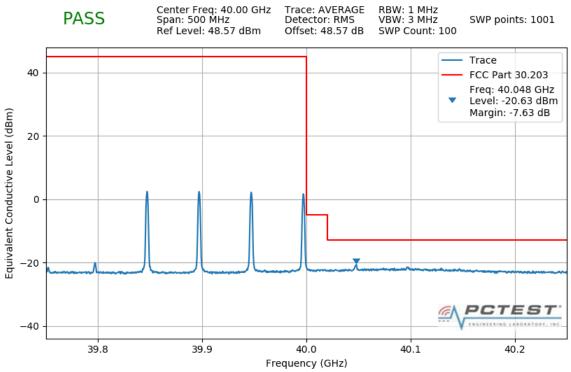




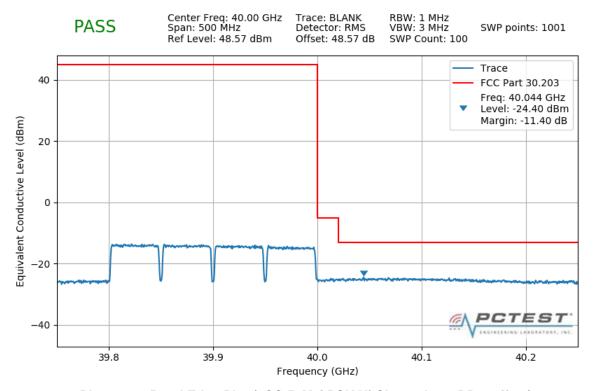


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 270 of 204
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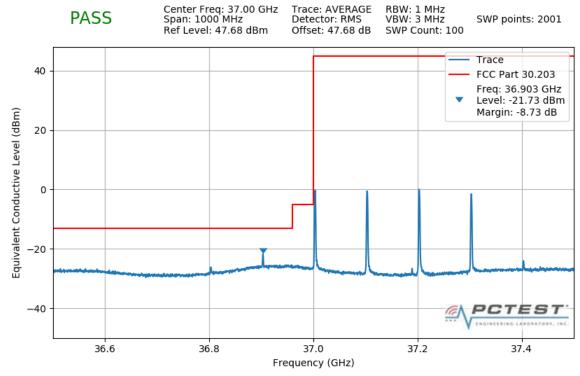


Plot 7-466. Band Edge Plot (4CC 50M QPSK Hi Channel- 32 RB 0 offset)

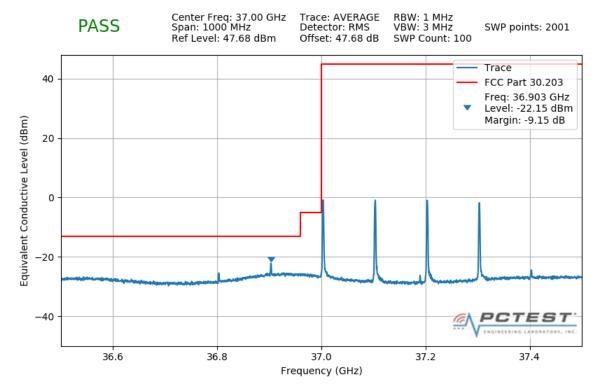
FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 271 of 204
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7.5.9 N260 4CC 100MHz Bandwidth Band Edges QTM 0 - H

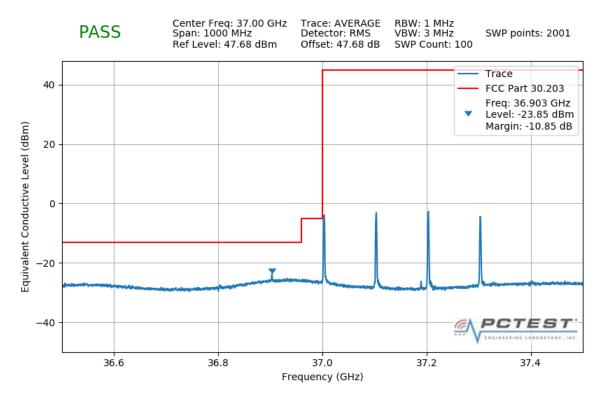






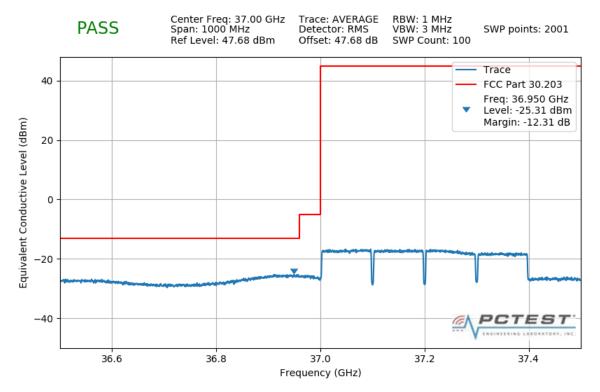
Plot 7-468. Band Edge Plot (4CC 100M 16QAM Low Channel - 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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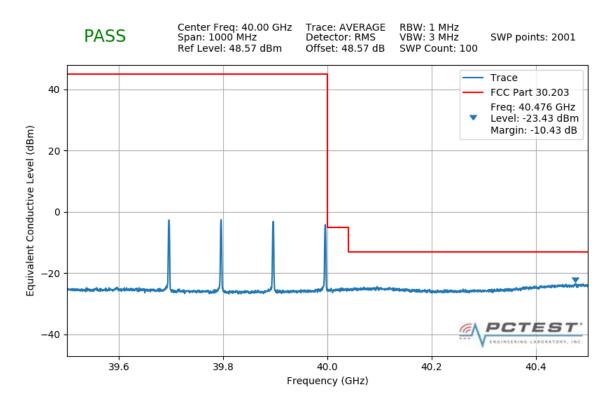
CTEST





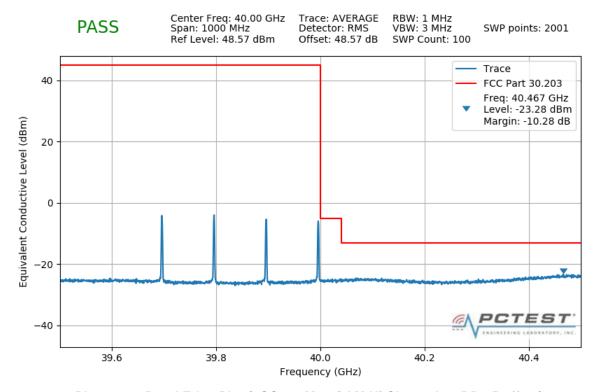


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Test Report S/N:	Test Dates:	EUT Type:	Dega 272 of 204
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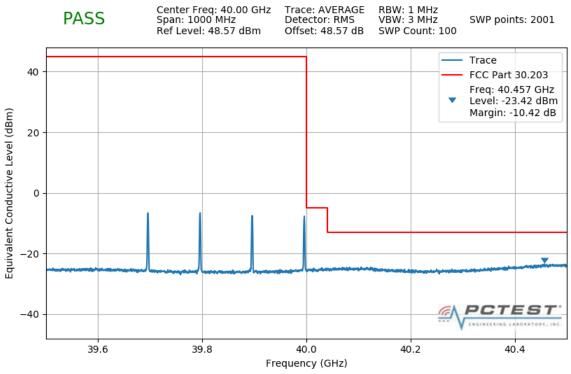




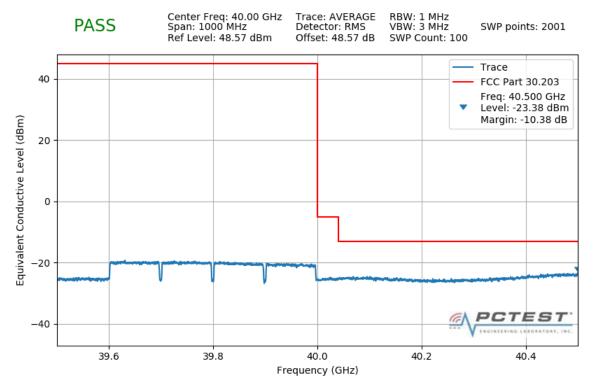


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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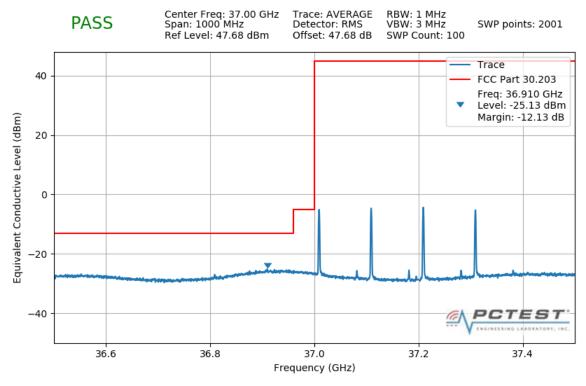




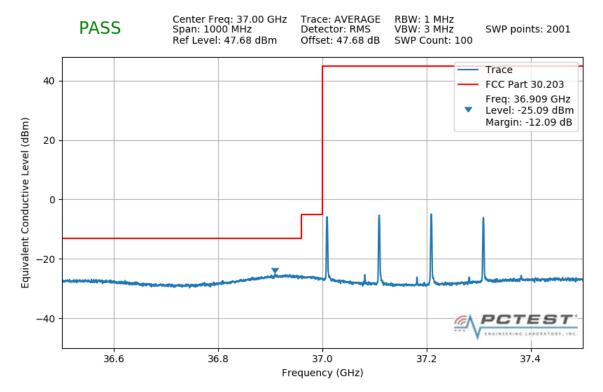
Plot 7-474. Band Edge Plot (4CC 100M QPSK Hi Channel- 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 275 of 204
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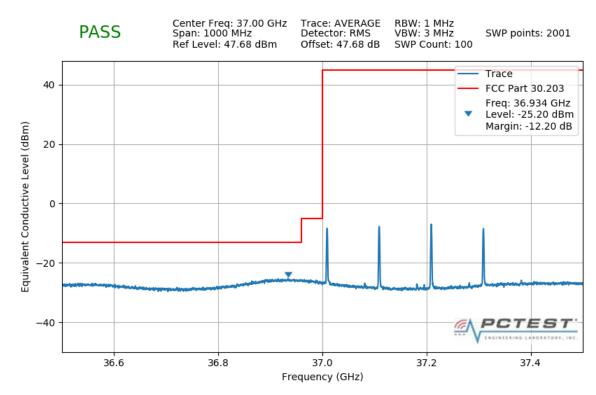






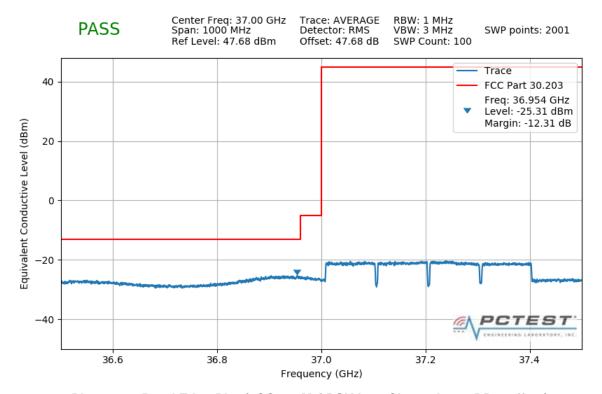
Plot 7-476. Band Edge Plot (4CC 100M 16QAM Low Channel - 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 276 of 204
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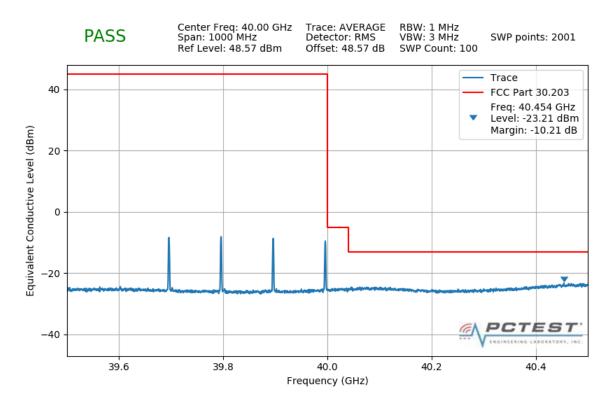
CTEST





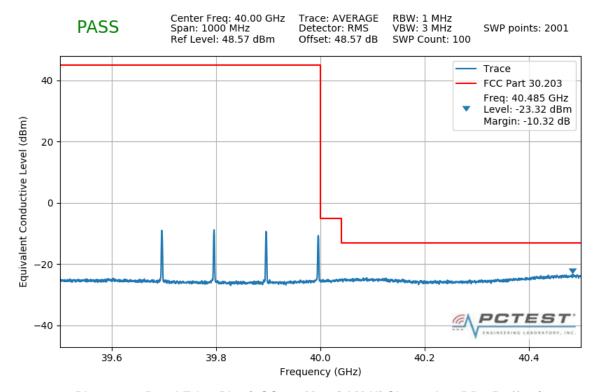


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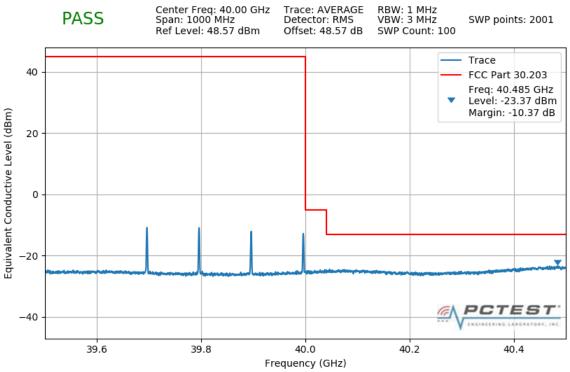




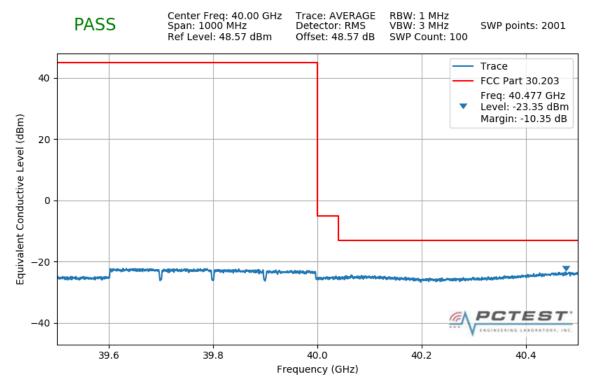


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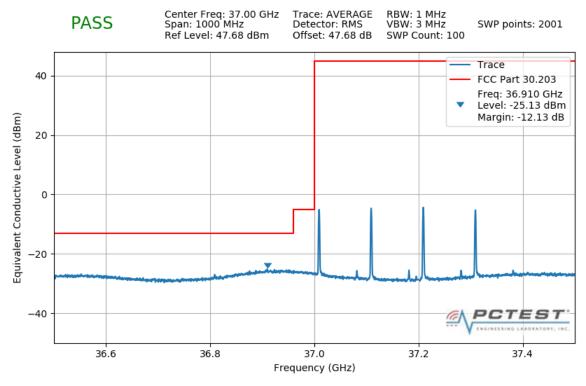




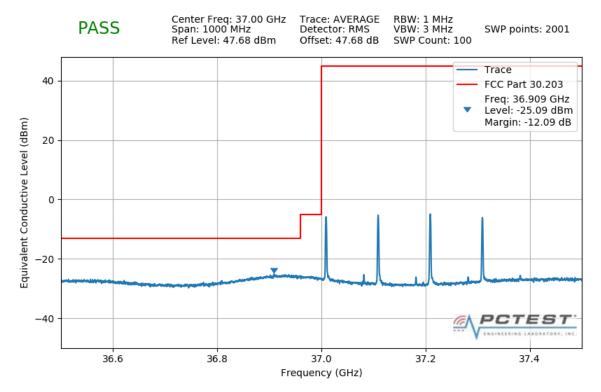
Plot 7-482. Band Edge Plot (4CC 100M QPSK Hi Channel- 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 270 of 204
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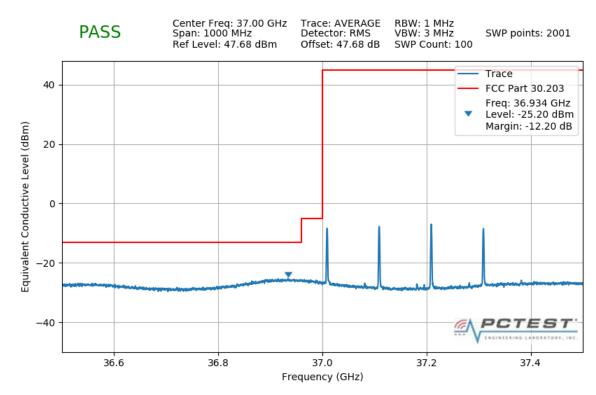






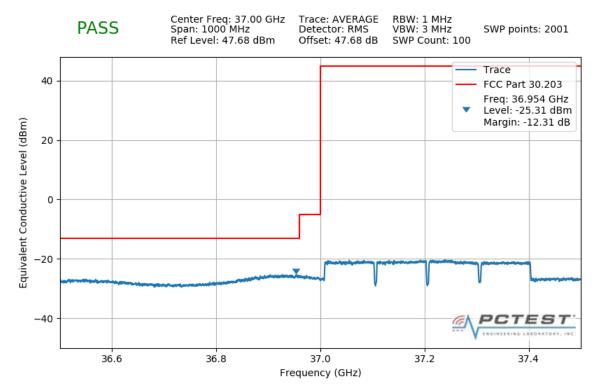
Plot 7-484. Band Edge Plot (4CC 100M 16QAM Low Channel - 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 200 of 204
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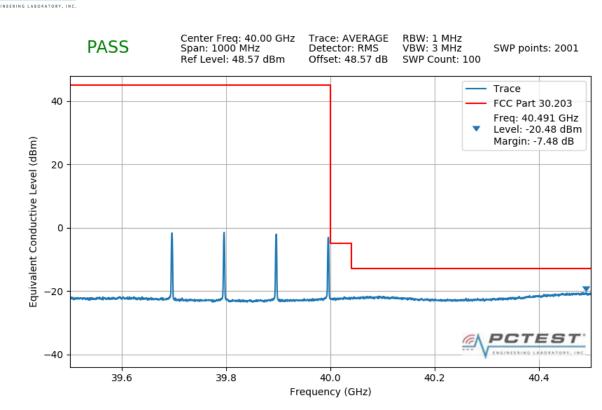
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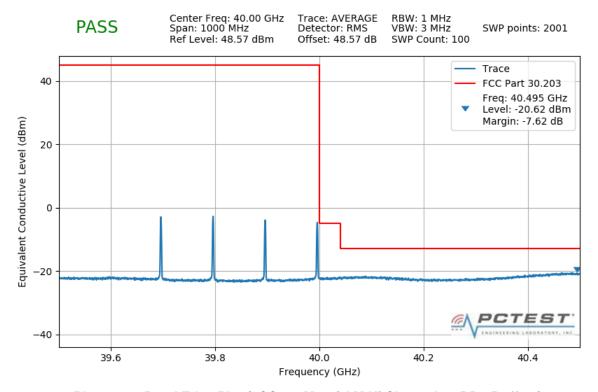


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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1M1901150005-14-R2.ZNF	1/21 -4/26/2019	Portable Handset	Page 281 of 304
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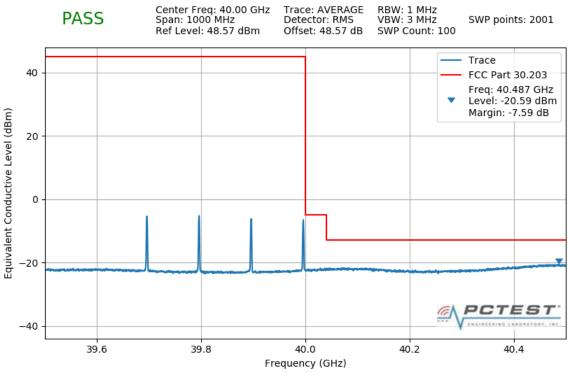




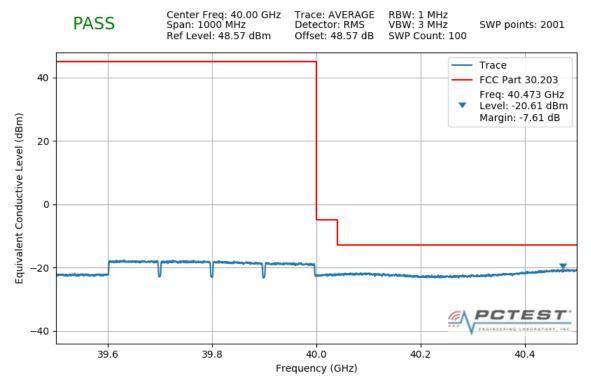


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 202 of 204
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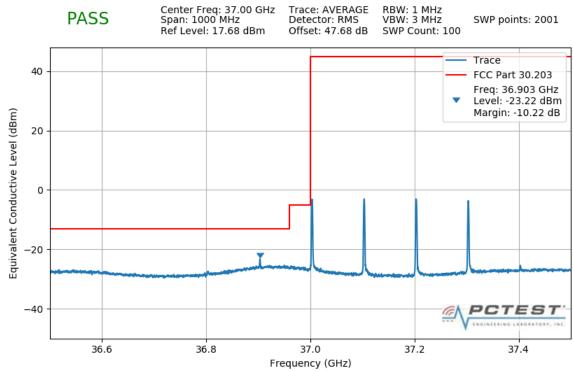




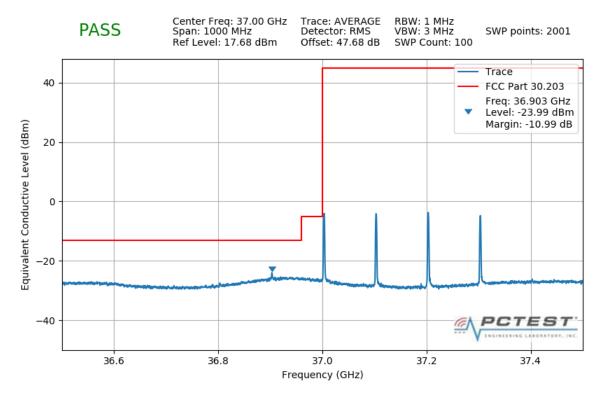
Plot 7-490. Band Edge Plot (4CC 100M QPSK Hi Channel- 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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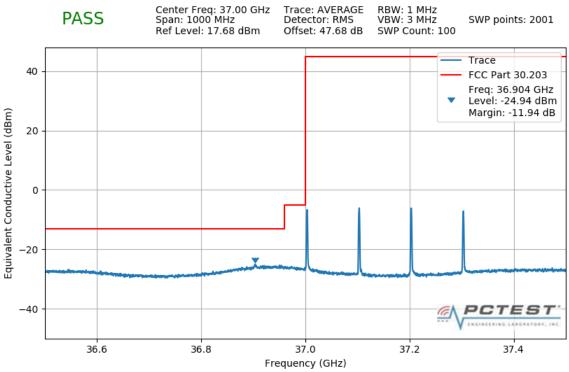




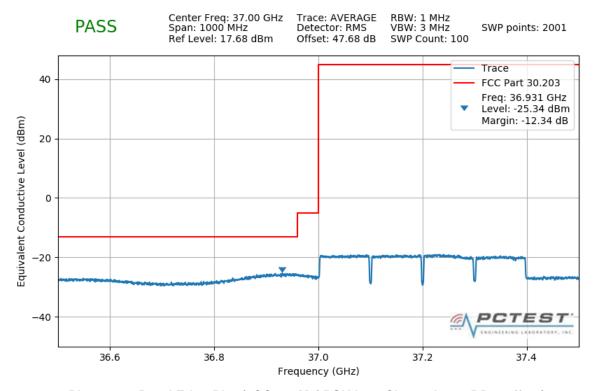
Plot 7-492. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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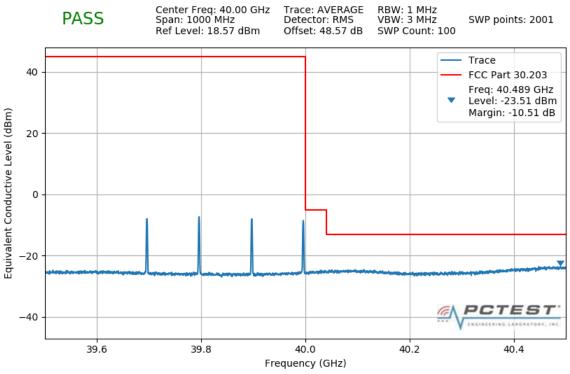




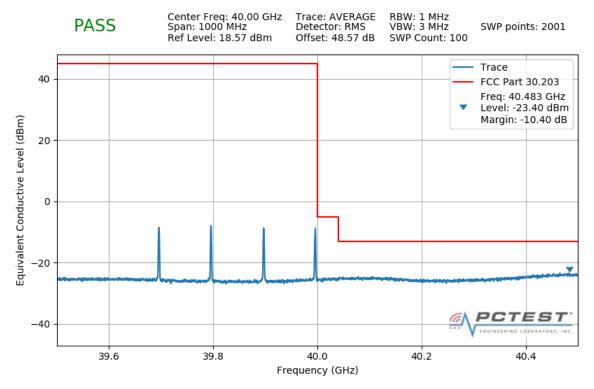
Plot 7-494. Band Edge Plot (4CC 100M QPSK Low Channel - 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 205 of 204
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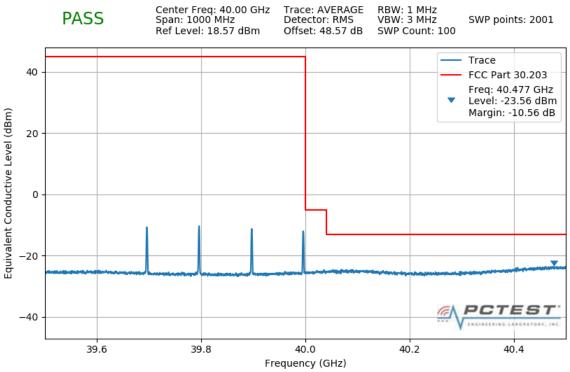




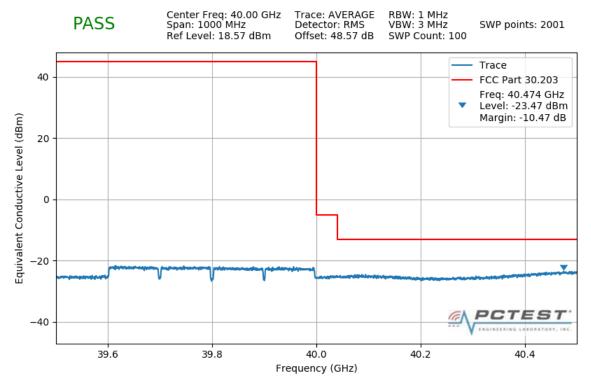


FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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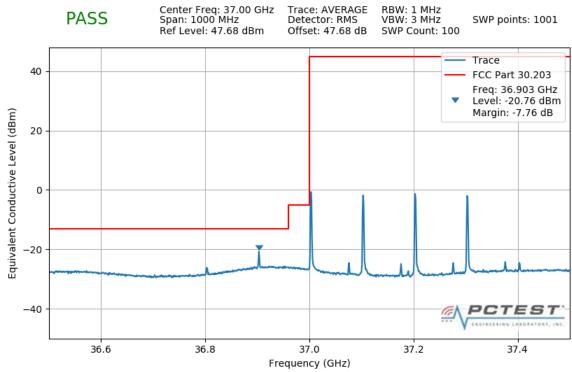




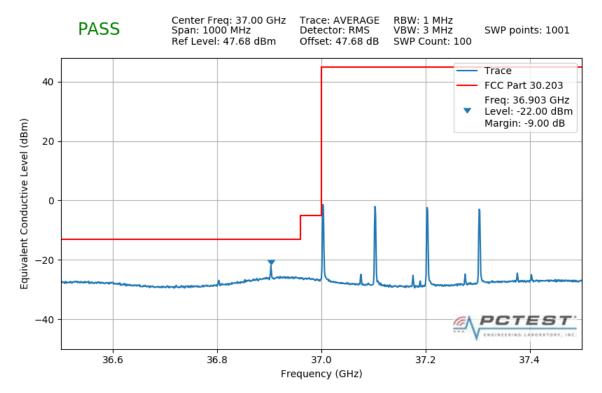
Plot 7-498. Band Edge Plot (4CC 100M QPSK Hi Channel- 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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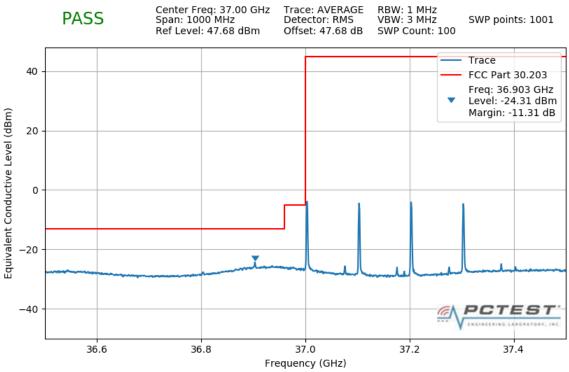




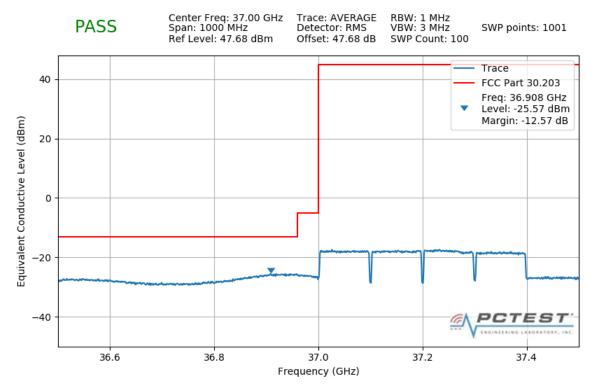
Plot 7-500. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 200 of 204
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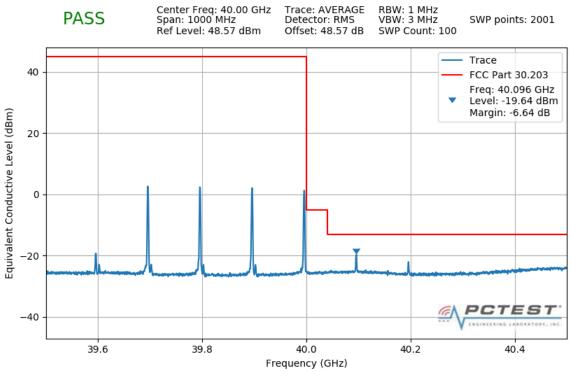




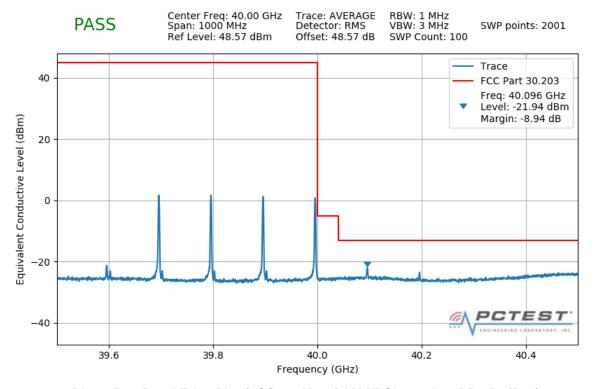
Plot 7-502. Band Edge Plot (4CC 100M QPSK Low Channel – 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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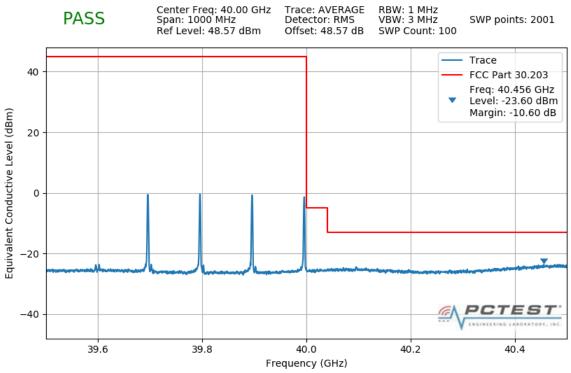




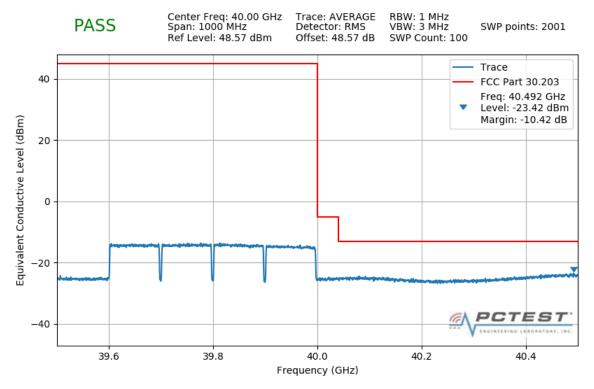
Plot 7-504. Band Edge Plot (4CC 100M 16QAM Hi Channel- 1 RB 65 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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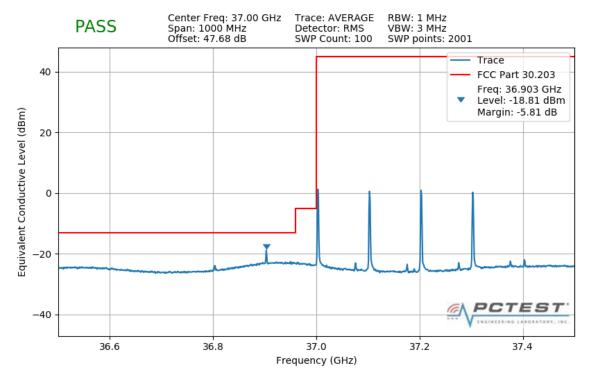




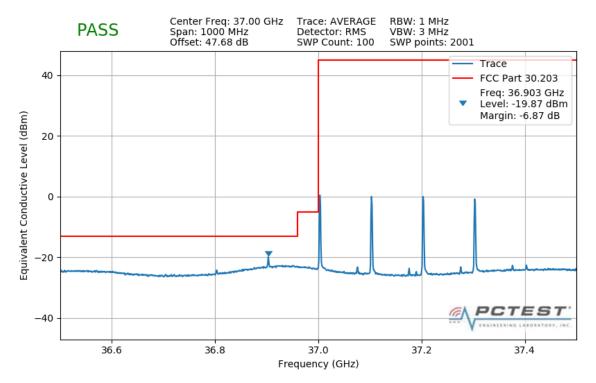
Plot 7-506. Band Edge Plot (4CC 100M QPSK Hi Channel- 66 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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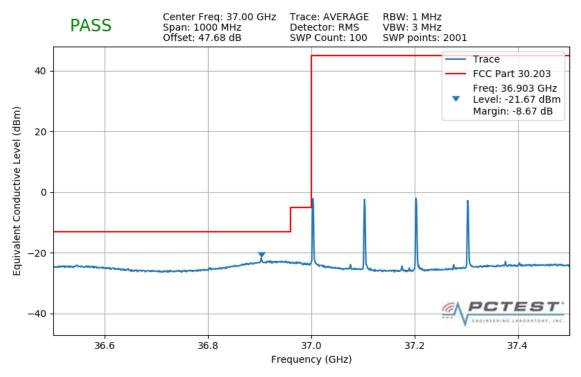




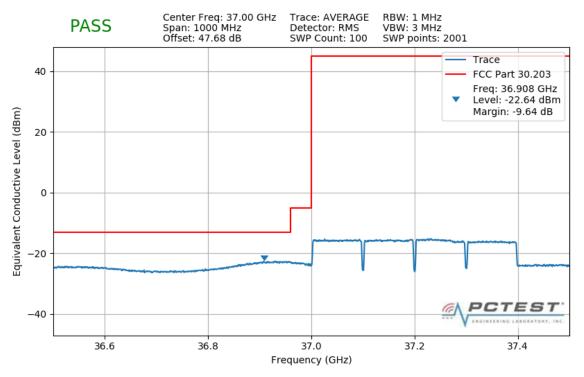
Plot 7-508. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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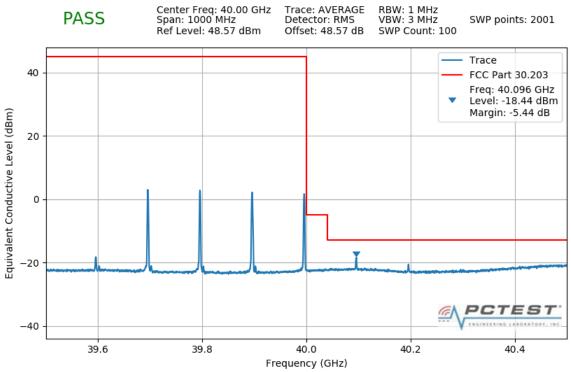




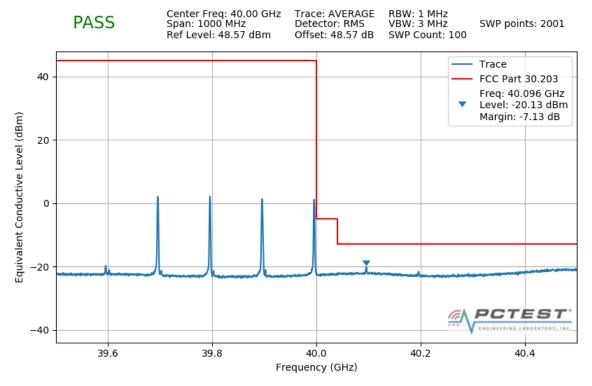
Plot 7-510. Band Edge Plot (4CC 100M QPSK Low Channel - 32 RB 0 offset)

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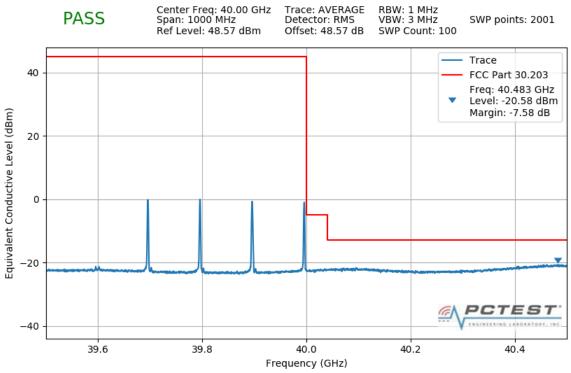




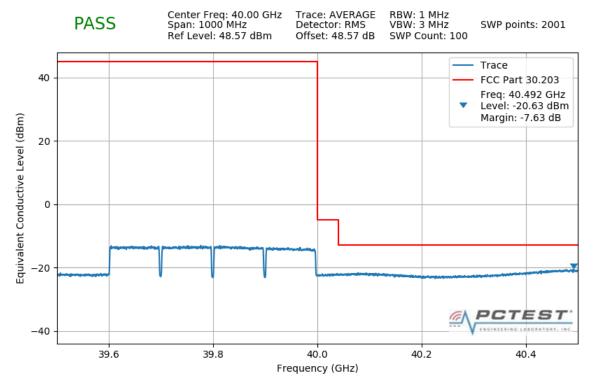
Plot 7-512. Band Edge Plot (4CC 100M 16QAM Hi Channel- 1 RB 0 offset)

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Plot 7-514. Band Edge Plot (4CC 100M QPSK Hi Channel- 32 RB 0 offset)

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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 C63.26-2015 Section 5.6

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

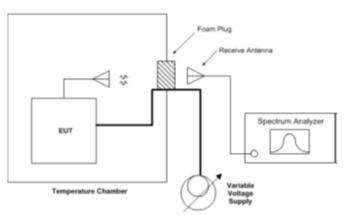


Figure 7-1. Test Instrument & Measurement Setup

The EUT was measured using horn antenna connected to a spectrum analyzer. The EUT was placed inside an environmental chamber.

Test Notes

None

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OPERATING FREQUENCY:	27,923,520,000	Hz
CHANNEL:	2077891	_
REFERENCE VOLTAGE:	4.20	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.20	- 30	27,923,420,137	99,863	0.0003576
100 %		- 20	27,923,757,355	-237,355	-0.0008500
100 %		- 10	27,923,705,059	-185,059	-0.0006627
100 %		0	27,923,739,827	-219,827	-0.0007872
100 %		+ 10	27,923,751,372	-231,372	-0.0008286
100 %		+ 20	27,923,675,293	-155,293	-0.0005561
100 %		+ 30	27,923,550,019	-30,019	-0.0001075
100 %		+ 40	27,923,478,001	41,999	0.0001504
100 %		+ 50	27,923,340,540	179,460	0.0006427
BATT. ENDPOINT	3.59	+ 20	27,923,448,913	71,087	0.0002546

Table 7-34. Frequency Stability Data

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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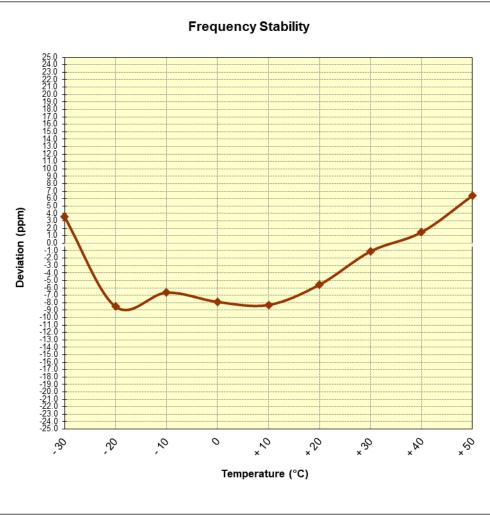


Figure 7-2. Frequency Stability Graph

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OPERATING FREQUENCY:	38,498,880,000	Hz
CHANNEL:	2253313	_
REFERENCE VOLTAGE:	4.20	VDC

VOLTAGE (%)	POWER (VDC)	ТЕМР ([°] С)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.20	- 30	38,499,275,557	-395,557	-0.0010275
100 %		- 20	38,499,579,390	-699,390	-0.0018167
100 %		- 10	38,498,968,937	-88,937	-0.0002310
100 %		0	38,498,960,632	-80,632	-0.0002094
100 %		+ 10	38,498,960,632	-80,632	-0.0002094
100 %		+ 20	38,498,668,888	211,112	0.0005484
100 %		+ 30	38,498,687,693	192,307	0.0004995
100 %		+ 40	38,498,497,406	382,594	0.0009938
100 %		+ 50	38,498,735,193	144,807	0.0003761
BATT. ENDPOINT	3.59	+ 20	38,498,545,542	334,458	0.0008687

 Table 7-35. Frequency Stability Data

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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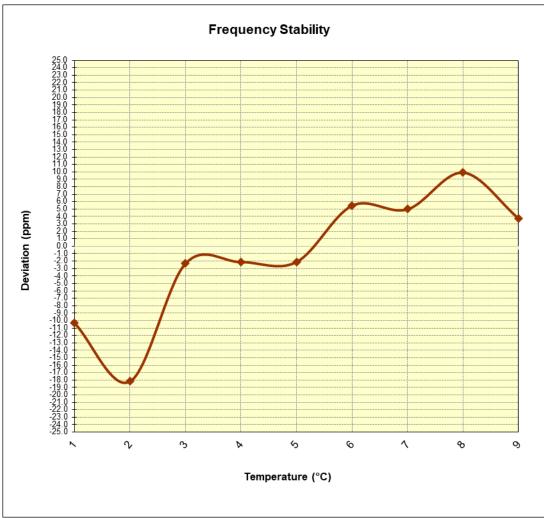


Figure 7-3. Frequency Stability Graph

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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: ZNFV450VM complies with all the requirements of Part 30.

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9.0 APPENDIX A

9.1 Virginia Diodes Mixer Verification Certificate

	Virginia Diodes, Inc	
Virginia Diodes, Inc.		
	Certificate of Conformance	
To: PCTEST Engineering Laboratory 6660-B Dobbin Road Columbia, MD 21045 United States	From: Virginia Diodes, Inc	
Packing List No: 181177 Shipping Date: 05/14/18	Today's Date: 05/14/18 PO Number: 180416.DP1R	
	Attention: Yelena Wedekind Phone: 410-290-6652	
Quantity <u>Shipped Unit Description</u> 1 EA VDIWR12.0SAX WR Module / SN: SAX 252	12SAX - Spectrum Analyzer Extension 2	<u>Order-Job</u> <u>Number</u> 18171A-01
accordance with the corresponding Purcl obtained in accordance with VDI's Qualit	et(s) the guidelines for performance specifications est shase Order. Data presented in the User Guide, when ty Management System. All instruments, used to obt uipment traceable to the National Institute of Standard onal System of Units (SI).	e applicable, has been ain data, which require
	Authorized Signature Virginia Diodes, Inc	
		Page 1 of 1

FCC ID: ZNFV450VM		MEASUREMENT REPORT (CERTIFICATION)	🕕 LG	Approved by: Quality Manager
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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

Packing List No: 181120 Shipping Date: 05/08/18 Today's Date: 05/08/18 PO Number: 180416.DP1R

Attn: Yelena Wedekind

Phone: 1-410-290-6652

Quantity Shipped

ed <u>Unit</u> <u>Description</u> 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).

Order-Job

18171B-01

Number

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

Packing List No: 181247 Shipping Date: 05/21/18 Today's Date: 05/22/18 PO Number: 180416.DP1R

Attn: Yelena Wedekind

Phone: 1-410-290-6652

Quantity Shipped

1

Unit Description 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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Order-Job Number

18171C-01

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