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DATE: 27 January 2020

I.T.L. (PRODUCT TESTING) LTD.

FCC Radio Test Report

For

Corning Optical Communication Wireless

Equipment under test:

Building Wireless System (BWS) v1.0

Low Power Radio (LPR)
(WCS Section 2350-2360MHz Band)

Tested by: _____
I. Kaganovich

Approved by: _____
D. Shidlowsky

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TESTING Cert No.1152.01

Measurement/Technical Report for

Corning Optical Communication Wireless

Building Wireless System (BWS) v1.0

FCC ID: OJF1LFR

This report concerns:	Original Grant: X Class II change: Class I change:
Equipment type:	B21 – Part 20 Industrial Booster (CMRS)
Limits used:	47CFR Parts 2, 27

Measurement procedure used is KDB 935210 D05 v01r03 April 2019 and ANSI IEEE C63.26-2015

Substitution Method used as in ANSI TIA-603-E-2016

Application for Certification prepared by:

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ITL (Product Testing) Ltd.
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Applicant for this device: (different from "prepared by")

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1. General Information

1.1 Administrative Information

Manufacturer:	Corning Optical Communication Wireless
Manufacturer's Address:	8253 1st Street Vienna, VA 22182 U.S.A. Tel: +1-703-855-1773
Manufacturer's Representative:	Isaac Nissan
Equipment Under Test (E.U.T):	Building Wireless System (BWS) v1.0
Equipment Model No.:	Low Power Radio (LPR)
Equipment Serial No.:	704A055003
Date of Receipt of E.U.T:	October 3, 2019
Start of Test:	October 3, 2019
End of Test:	December 24, 2019
Test Laboratory Location:	I.T.L (Product Testing) Ltd. 1 Batsheva St, Lod, Israel 7116002
Test Specifications:	FCC Parts 2, 27

1.2 List of Accreditations

The EMC laboratory of I.T.L. is accredited by/registered with the following bodies:

1. The American Association for Laboratory Accreditation (A2LA) (U.S.A.), Certificate No. 1152.01.
2. The Federal Communications Commission (FCC) (U.S.A.), FCC Designation Number IL1005.
3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
4. Department of Innovation, Science and Economic Development (ISED) Canada, CAB identifier: IL1002

I.T.L. Product Testing Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with I.T.L.'s terms of accreditation unless stated otherwise in the report.

1.3 Product Description

Corning's BWS™ platform 1.0 is the first fully-digital, end-to-end in-building cellular solution, for medium size venues.
Corning's Low Power Radio (LPR) units are the end-point antennas connected by optical cable to the BWS system Digital Router Unit (DRU) (distribution/routing of RF samples via CPRI stream), and to the system Power Supply Unit (PSU) for power.
LPR is the first release of Corning's fully-digital radio remote unit, providing plug-and-play, cost-effective processing, minimizing power loss and noise.

1.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures in KDB 935210 D05 v01r03 April 2019 and ANSI/TIA-603-E-2016. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.5 Test Facility

Both conducted and radiated emissions tests were performed at I.T.L.'s testing facility in Lod, Israel. I.T.L.'s EMC Laboratory is accredited by A2LA, certificate No. 1152.01 and its FCC Designation Number is IL1005.

1.6 Measurement Uncertainty

Conducted Emission
Conducted Emission (CISPR 11, EN 55011,CISPR 22, EN 55022, ANSI C63.4)
0.15 – 30 MHz:
Expanded Uncertainty (95% Confidence, K=2):
± 3.44 dB

Radiated Emission

Radiated Emission (CISPR 11, EN 55011, CISPR 22, EN 55022, ANSI C63.4) for open site:
30-1000MHz:
Expanded Uncertainty (95% Confidence, K=2):
± 4.96 dB

1 GHz to 6 GHz
Expanded Uncertainty (95% Confidence, K=2):
±5.19 dB

>6 GHz
Expanded Uncertainty (95% Confidence, K=2):
±5.51 dB

2. System Test Configuration

2.1 Justification

2.1.1 The test setup was configured to closely resemble the standard installation.
2.1.2 The EUT consists of the LPR (Low-Power Remote Module) which is connected with the head-end ICRAN equipment (BBU and DRU) using fiber optic cable.
2.1.3 The RF source signals are represented in the setup by BBU unit.
2.1.4 An "Exercise" SW on the computer was used to enable/disable transmission of the EUT, while the EUT output was connected to the spectrum analyzer.
2.1.5 The system was tested under maximum gain conditions.
2.1.6 Only peak power testing was done on the both ports, all other testing was performed 1 port (see customer declaration on following page regarding the identical ports).
2.1.7 Testing was performed on the following configuration:

Frequency Range (MHz)		
Service/Band	**Downlink (DL)**	**Technology**
WCS	2350-2360	LTE

2.2 EUT Exercise Software

vHCM SW ver. 1.0 used for commands delivery. These commands are used to enable/disable the EUT transmission.
EUT Embedded SW versions are:
DRU ver dru_d719_10_25
LPR ver LPR_D803_01.63

2.3 Special Accessories

No special accessories were needed in order to achieve compliance.

2.4 Equipment Modifications

No modifications were needed in order to achieve compliance.

CORNING

Declaration

Date: December 25, 2019

RE: Corning Optical Communication Wireless
P/N: LPR-3C-2A2P2W-10
FCC ID: OJF1LPR

I hereby declare that the MIMO stream 1 and MIMO stream 2 of the LPR-3C-2A2P2W-10 have the identical RF chain including antenna gain of 2dBi.

Authorized Signature:

Printed Name: Isaac Nissan

2.5 Configuration of Tested System

Product Name	Building Wireless System (BWS) v1.0
Model Name	Low Power Radio (LPR)
Working voltage	100-240VAC/ 48VDC
Mode of operation	Industrial Booster for WCS band
Modulations	64QAM, 16QAM, QPSK
Assigned Frequency Range	2345.0MHz-2360.0MHz
Operating Frequency Range	2350.0MHz -2360.0MHz
Transmit power	~15.0 dBm
Antenna Gain	2dBi
DATA rate	N/A
Modulation BW	5MHz, 10.0MHz
DC Voltage and DC current applied to the final amplifying device	36-60VDC, (nominal voltage 48V)/ 2A

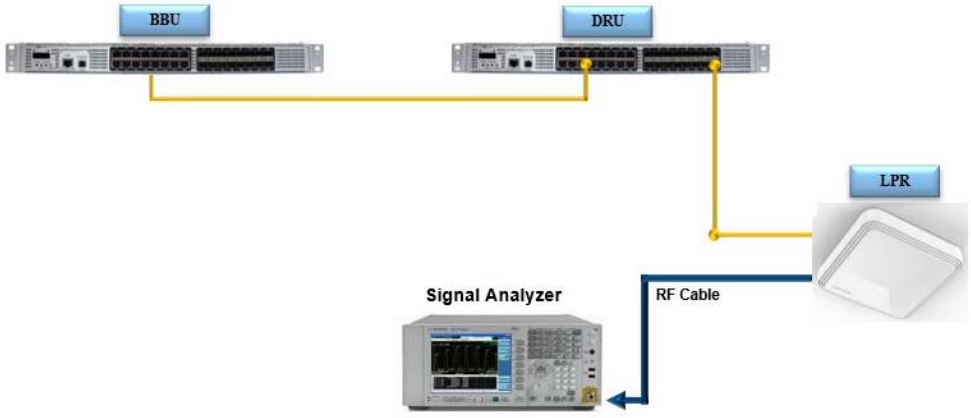

Figure 1. Test Set-Up – Conducted

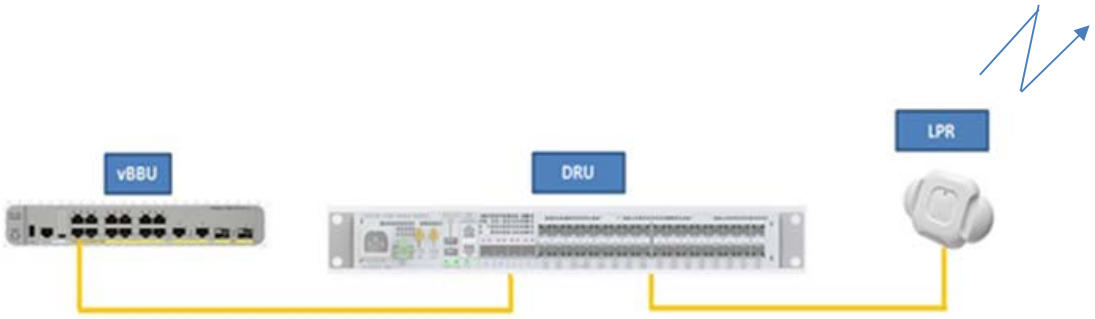

Figure 2. Test Set-Up - Radiated

3. Test Set-Up Photos

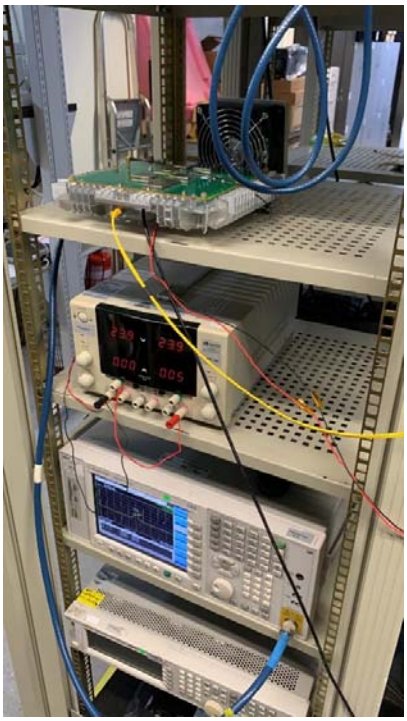

Figure 3. Conducted Test Set-Up

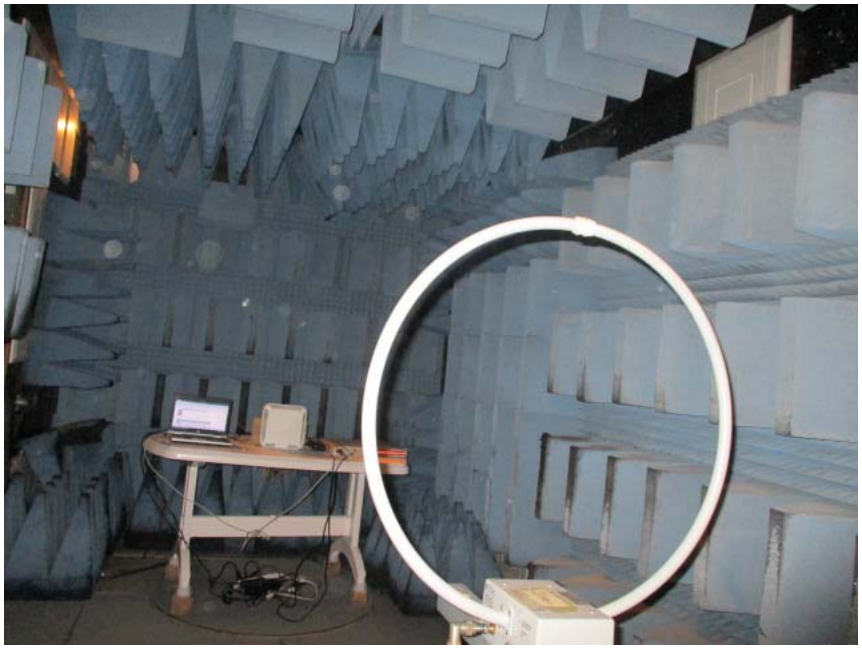

Figure 4. Radiated Emission Test, 0.009-30MHz

Figure 5. Radiated Emission Test, 30-200MHz

Figure 6. Radiated Emission Test, 200-1000MHz

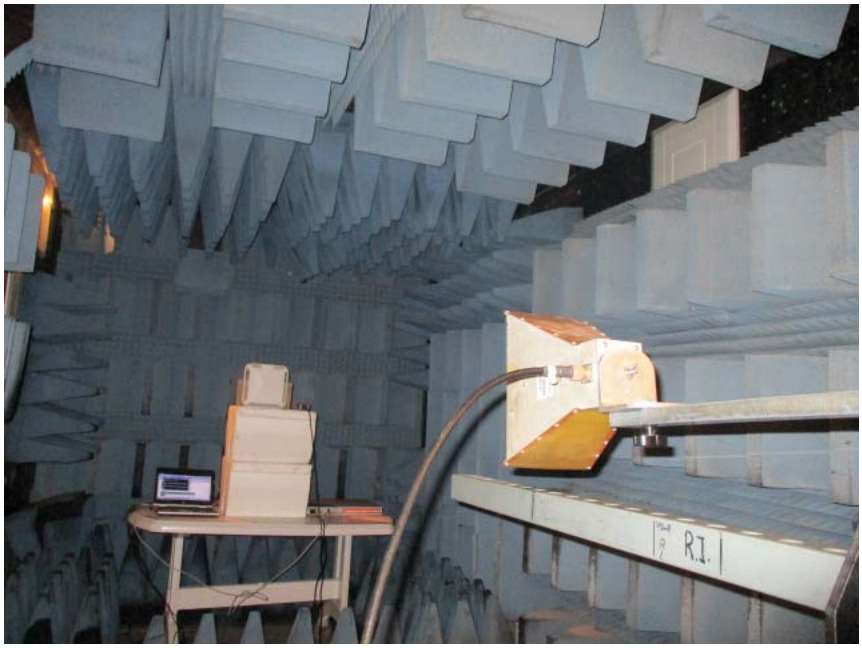

Figure 7. Radiated Emission Test, 1-18GHz

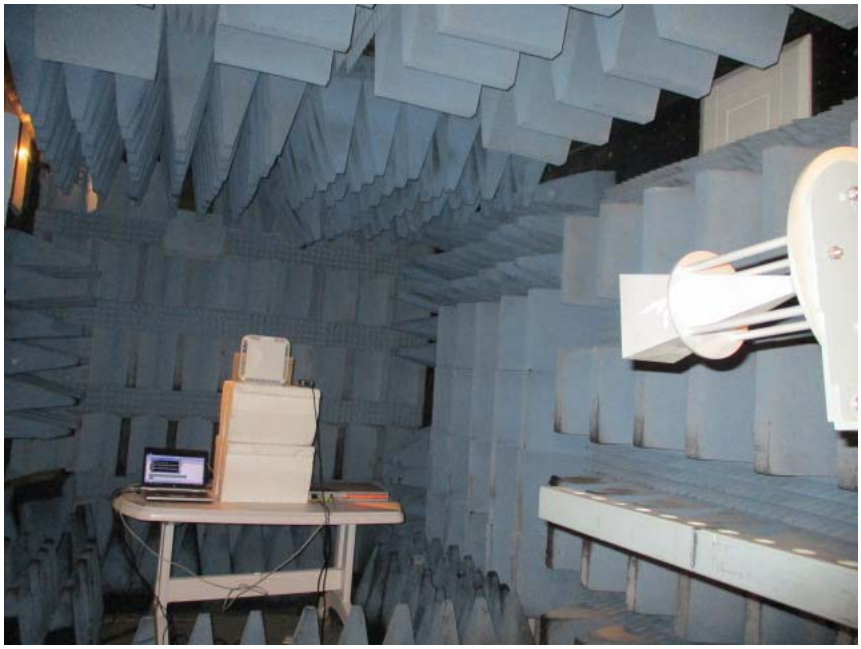

Figure 8. Radiated Emission Test, 18-26.5GHz

4. Peak Output Power & Booster Gain

4.1 Test Specification

FCC Part 27, Subpart C, Section 27.50(a)(ii)

4.2 Test Procedure

(Temperature (22°C)/Humidity (40%RH))

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an appropriate coaxial cable. Special attention was taken to prevent Spectrum Analyzer RF input overload.

4.3 Test Limit

Peak Power Output must not exceed 2000 Watts (63dBm).

4.4 Test Results

Modulation	Operation Frequency	Port1 Reading	Port1 Reading	Port2 Reading	Port2 Reading	EIRP*	Limit	Margin
	(MHz)	(dBm)	(Watts)	(dBm)	(Watts)	(dBm)	(dBm)	(dB)
QPSK	2352.5	16.9	0.049	16.9	0.049	21.91	63.0	-41.09
	2355.0	16.9	0.049	16.9	0.049	21.91	63.0	-41.09
	2357.5	17	0.050	17	0.050	22.01	63.0	-40.99
16QAM	2352.5	16.8	0.048	16.9	0.049	21.86	63.0	-41.14
	2355.0	16.9	0.049	16.9	0.049	21.91	63.0	-41.09
	2357.5	17	0.050	17	0.050	22.01	63.0	-40.99
64QAM	2352.5	17.3	0.054	16.9	0.049	22.11	63.0	-40.89
	2355.0	17.3	0.054	16.8	0.048	22.07	63.0	-40.93
	2357.5	17.5	0.056	17	0.050	22.27	63.0	-40.73

Figure 9 Peak Output Power, 5MHz BW

Modulation	Operation Frequency	Port1 Reading	Port1 Reading	Port2 Reading	Port2 Reading	EIRP*	Limit	Margin
	(MHz)	(dBm)	(Watts)	(dBm)	(Watts)	(dBm)	(dBm)	(dB)
QPSK	2355.0	16.9	0.049	16.9	0.049	21.91	63.0	-41.09
16QAM	2355.0	16.9	0.049	16.9	0.049	21.91		-41.09
64QAM	2355.0	17.3	0.054	16.9	0.049	22.11		-40.89

Figure 10 Peak Output Power, 10MHz BW

*Note – EIRP was calculated by adding both Port readings in W, then converting to dBm and adding the antenna gain.

JUDGEMENT: Passed by 40.73 dB

See additional information in *Figure 11* to *Figure 34.*

Antenna PORT	1
Modulation	16QAM

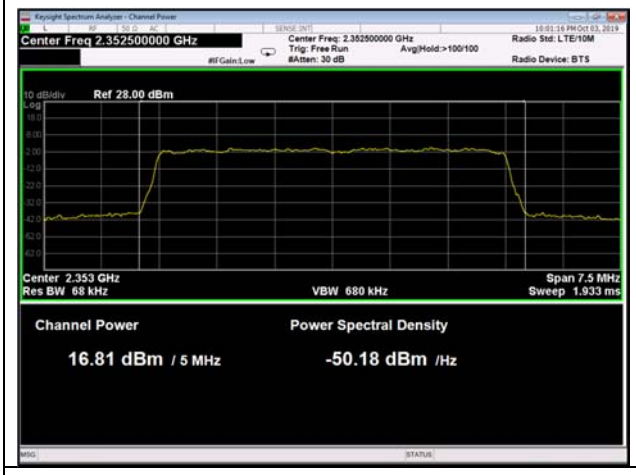

Figure 11 5MHz BW, 2352.5MHz

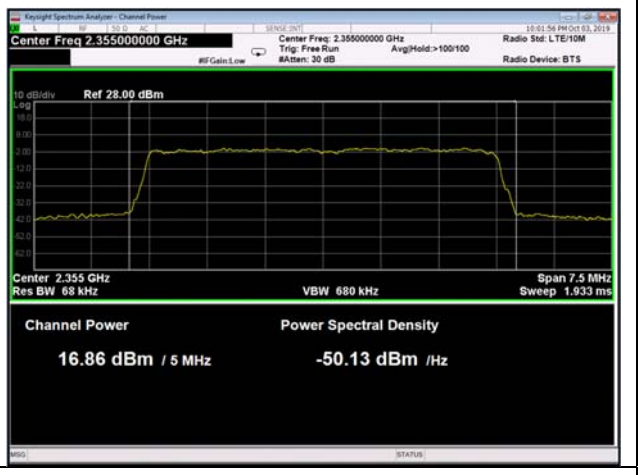

Figure 12 5MHz BW, 2355MHz

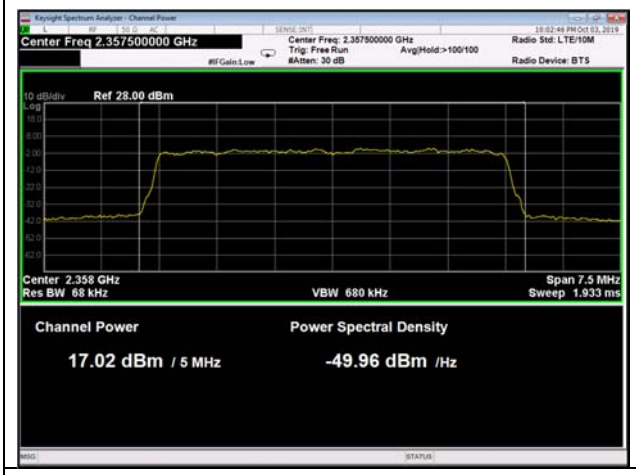

Figure 13 5MHz BW, 2357.5MHz

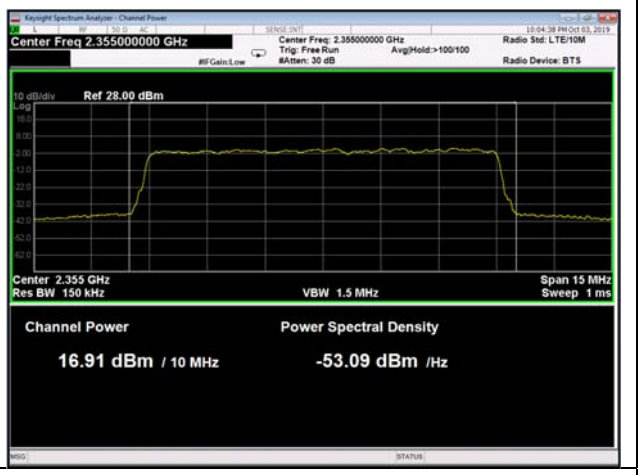

Figure 14 10MHz BW, 2355MHZ

Antenna PORT	1
Modulation	64QAM

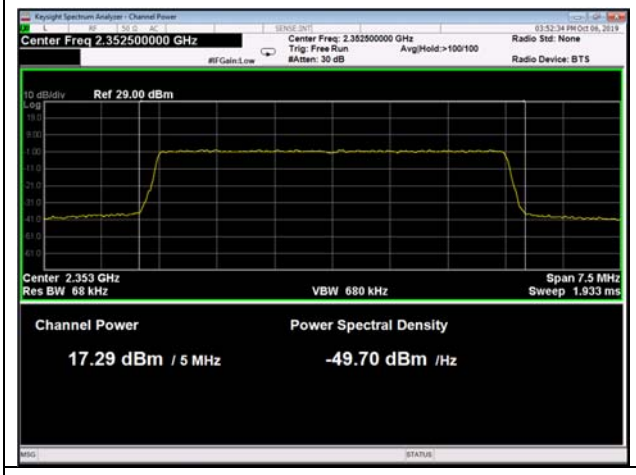

Figure 15 5MHz BW, 2352.5MHz

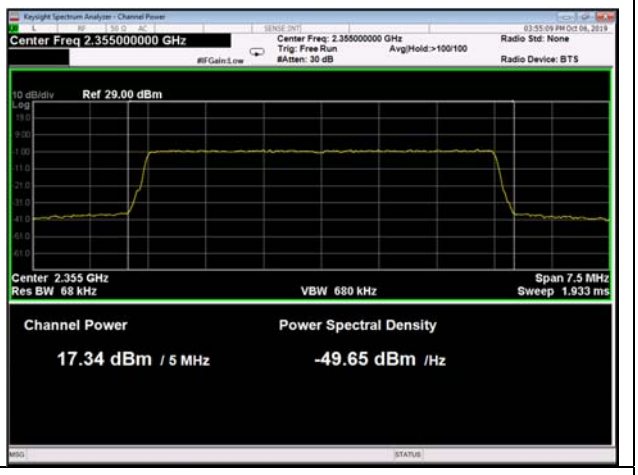

Figure 16 5MHz BW, 2355MHz

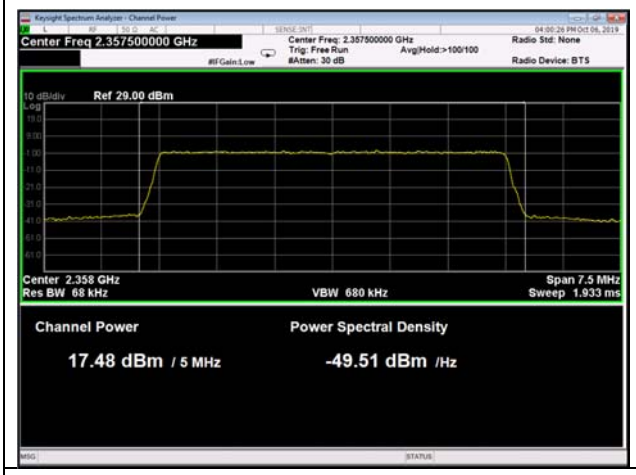

Figure 17 5MHz BW, 2357.5MHz

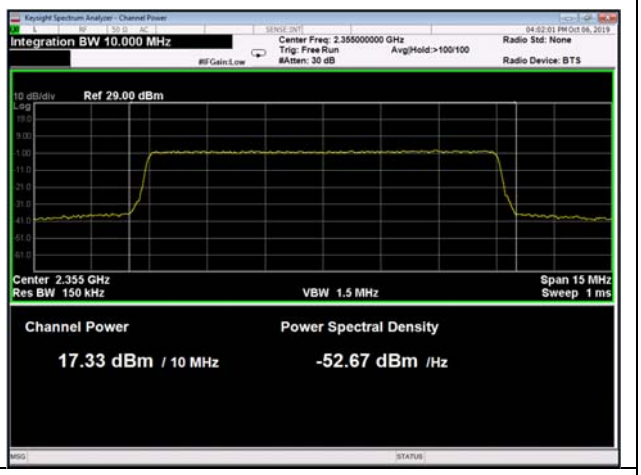

Figure 18 10MHz BW, 2355MHZ

Antenna PORT	1
Modulation	QPSK

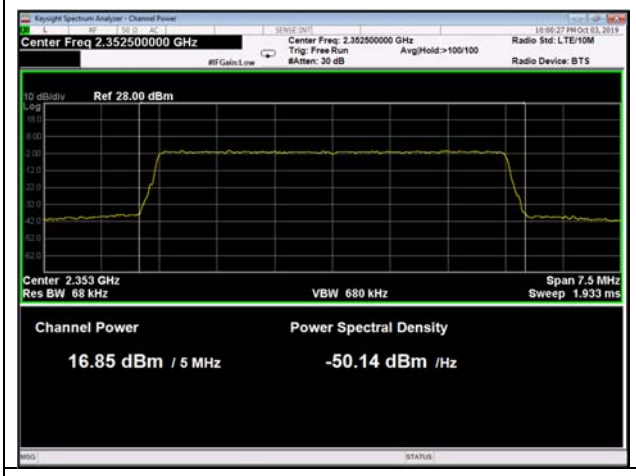

Figure 19 5MHz BW, 2352.5MHz

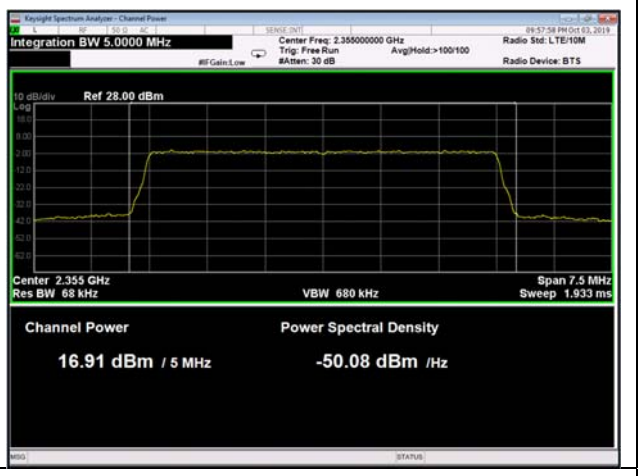

Figure 20 5MHz BW, 2355MHz

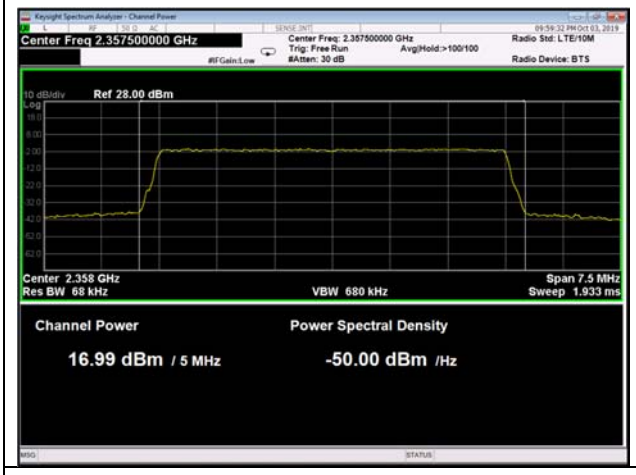

Figure 21 5MHz BW, 2357.5MHz

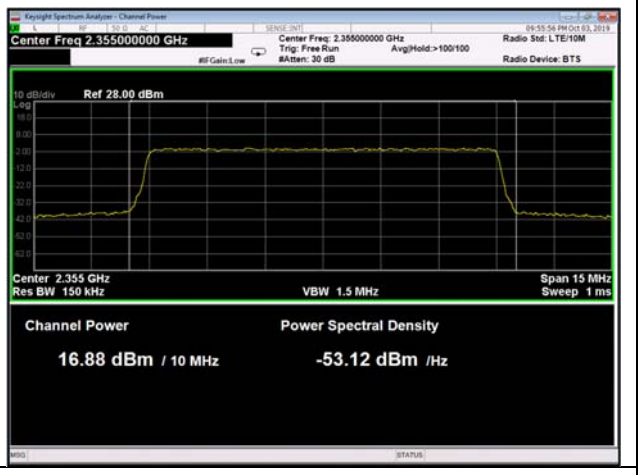

Figure 22 10MHz BW, 2355MHZ

Antenna PORT	2
Modulation	16QAM

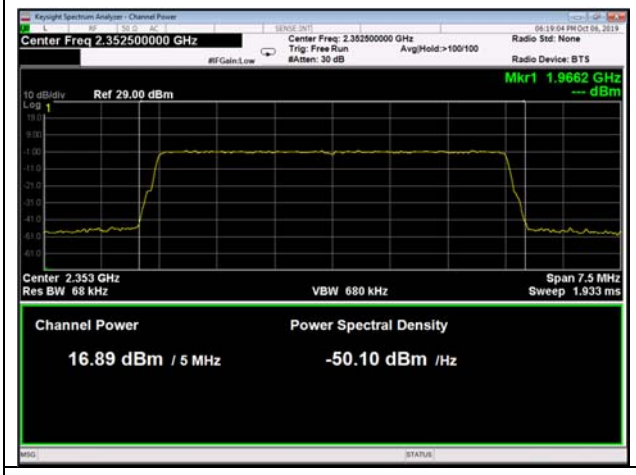

Figure 23 5MHz BW, 2352.5MHz

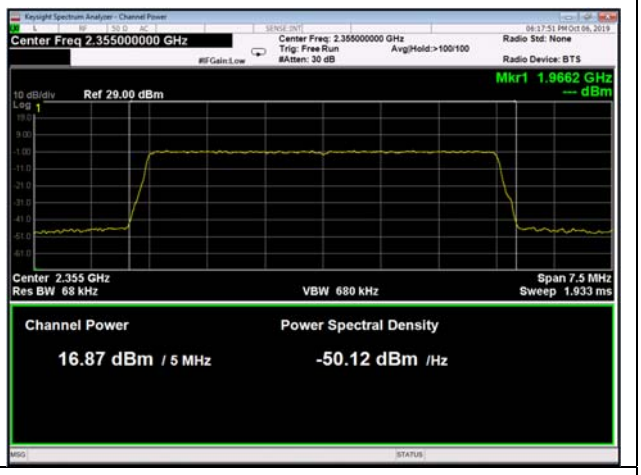

Figure 24 5MHz BW, 2355MHz

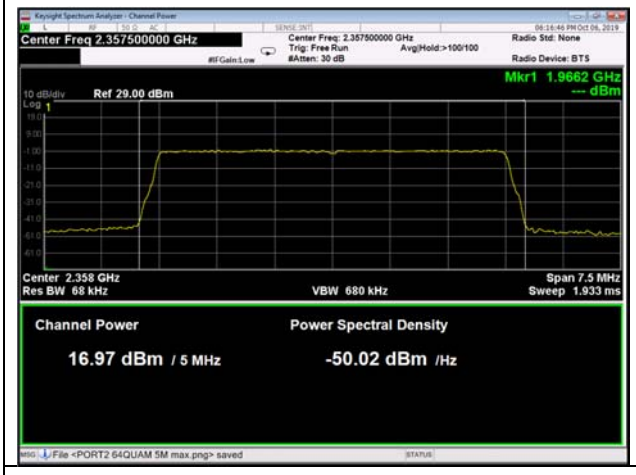

Figure 25 5MHz BW, 2357.5MHz

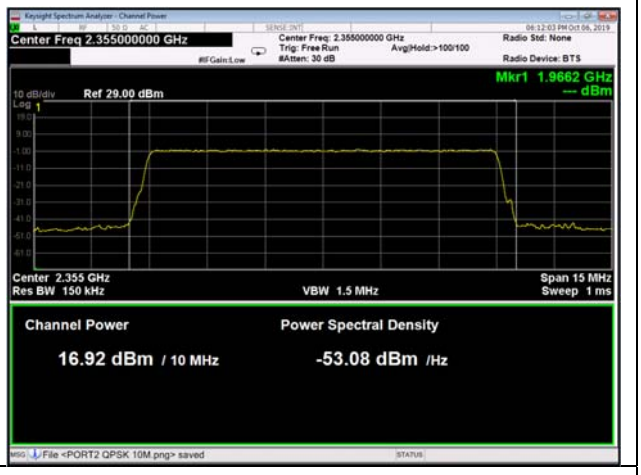

Figure 26 10MHz BW, 2355MHZ

Antenna PORT	2
Modulation	64QAM

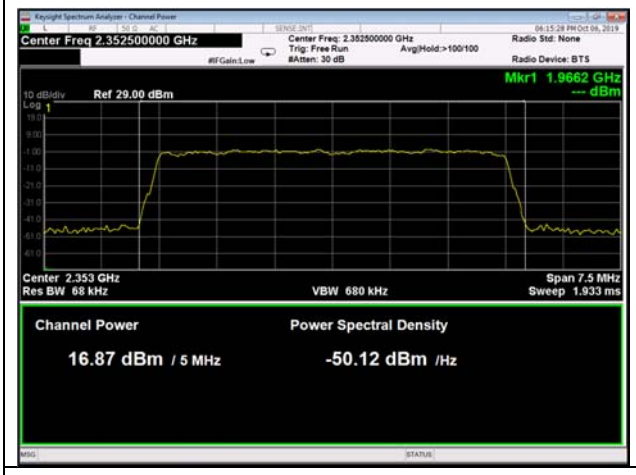

Figure 27 5MHz BW, 2352.5MHz

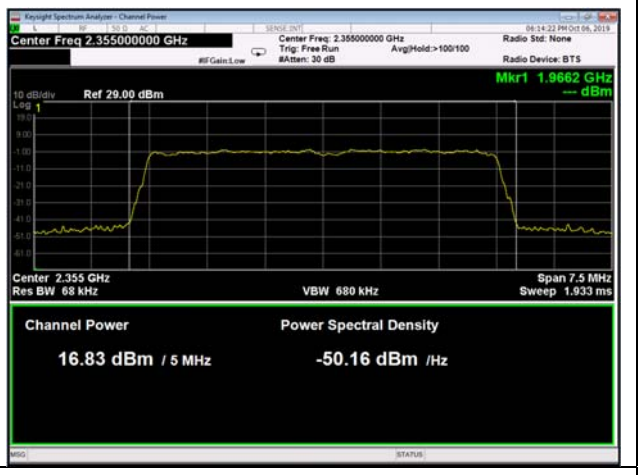

Figure 28 5MHz BW, 2355MHz

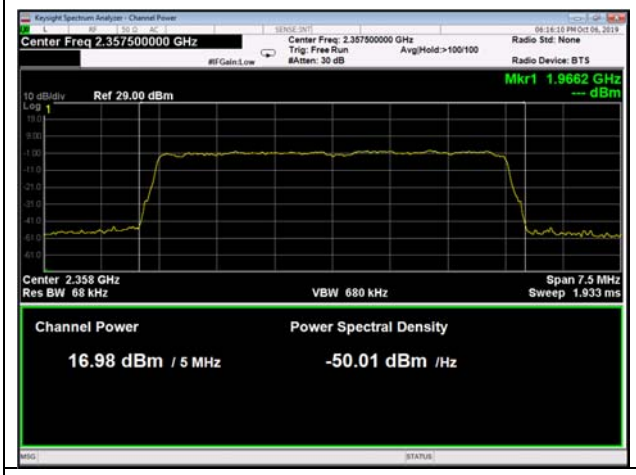

Figure 29 5MHz BW, 2357.5MHz

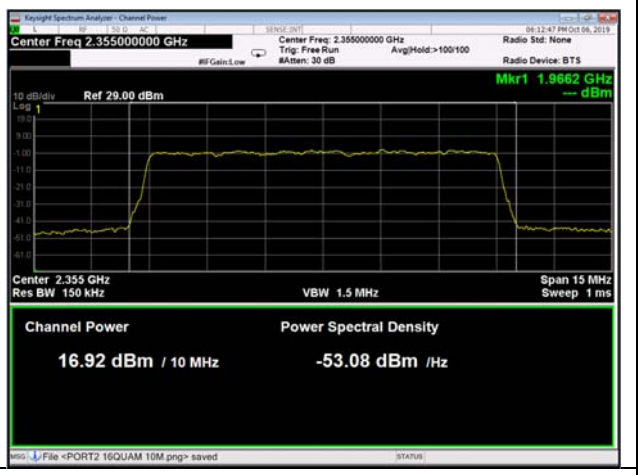

Figure 30 10MHz BW, 2355MHZ

Antenna PORT	2
Modulation	QPSK

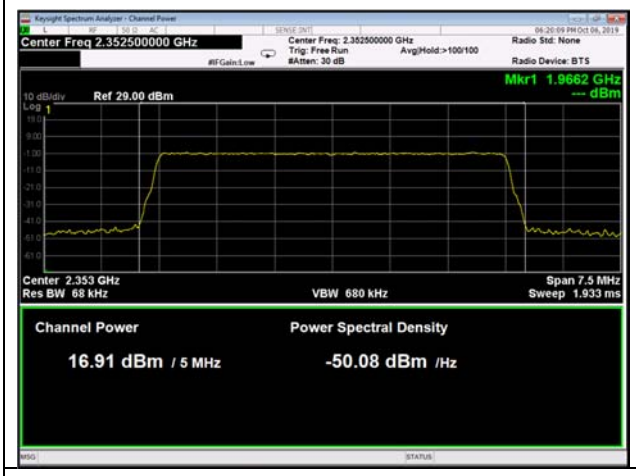

Figure 31 5MHz BW, 2352.5MHz

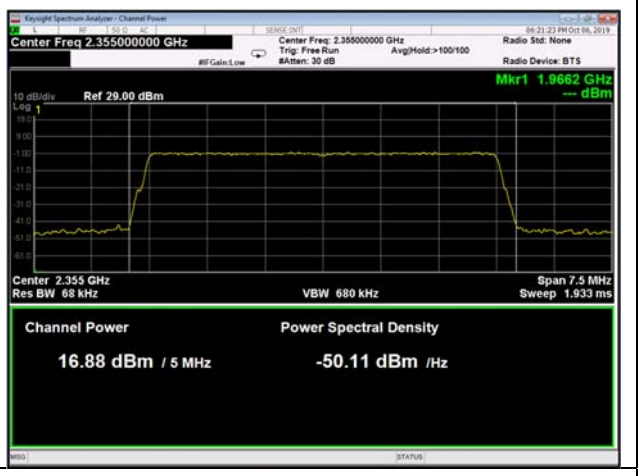

Figure 32 5MHz BW, 2355MHz

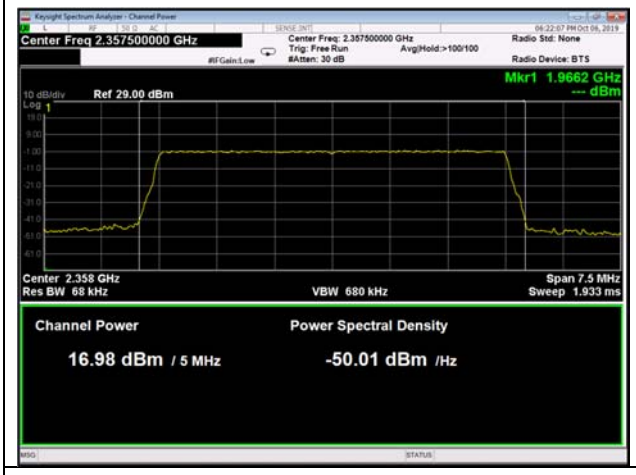

Figure 33 5MHz BW, 2357.5MHz

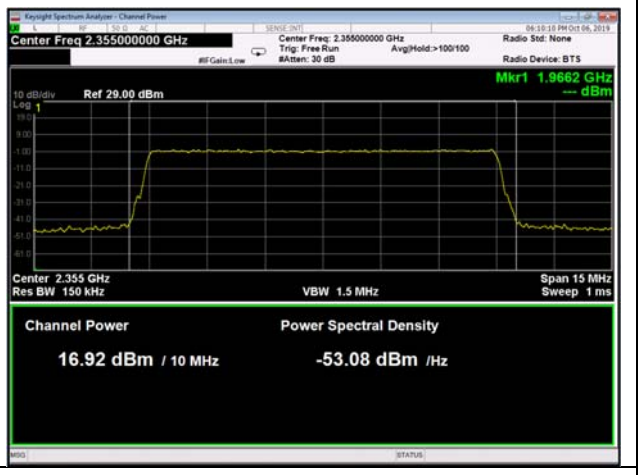

Figure 34 10MHz BW, 2355MHZ

4.5 Test Equipment Used; Peak Output Power

Instrument	Manufacturer	Model	Serial Number	Calibration	
				Last Calibration Date	Next Calibration Date
Spectrum Analyzer	Agilent	N9010A	MY52220686	November 28, 2018	November 28, 2020
Vector Signal Generator	VIAVI	MTS 5800	WMNK00716 90263	July 1, 2018	July 1, 2021

Figure 35 Test Equipment Used

5. Average Power Spectral Density

5.1 Test Specification

FCC, Part 27, Subpart C, Section 27.50(a)(1)(A)

5.2 Test Procedure

(Temperature (22°C)/ Humidity (40%RH))

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an external attenuator and an appropriate coaxial cable (loss=31.7 dB). The E.U.T. RF output was modulated. Special attention was taken to prevent Spectrum Analyzer RF input overload. The Spectrum Analyzer was set to 1MHz RBW. The output power level was measured at each modulation.

In the next step RBW was set to 5MHz, power output level was measured at each modulation and compared to the limit.

5.3 Test Limit

Average PSD in any 1 MHz must not exceed 400 Watts (56dBm) and in any 5MHz, must not exceed 2000 Watts (63dBm).

5.4 Test Results

Band	Modulation	Operation Frequency	Reading	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
WCS	QPSK	2352.5	11.1	2.0	13.1	56.0	-42.9
		2355.0	11.1		13.1		-42.9
		2357.5	11.5		13.5		-42.5
	16QAM	2352.5	9.7		11.7		-44.3
		2355.0	10.3		12.3		-43.7
		2357.5	11.9		13.9		-42.1
	64QAM	2352.5	11.0		13.0		-43.0
		2355.0	11.6		13.6		-42.4
		2357.5	11.6		13.6		-42.4

Figure 36 1 MHz - Average Power Spectral Density, 5MHz OBW

Band	Modulation	Operation Frequency	Reading	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
WCS	64QAM	2355.0	8.2	2.0	10.2	56.0	-45.8
	16QAM	2355.0	8.4		10.4		-45.6
	QPSK	2355.0	8.7		10.7		-45.3

Figure 37 1 MHz - Average Power Spectral Density, 10MHz OBW

Band	Modulation	Operation Frequency	Reading	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
WCS	QPSK	2352.5	16.4	2.0	18.4	63.0	-44.6
		2355.0	17.0		19.0		-44
		2357.5	17.6		19.6		-43.4
	16QAM	2352.5	16.4		18.4		-44.6
		2355.0	17.0		19.0		-44
		2357.5	17.4		19.4		-43.6
	64QAM	2352.5	17.4		19.4		-43.6
		2355.0	16.7		18.7		-44.3
		2357.5	17.2		19.2		-43.8

Figure 38 5 MHz - Average Power Spectral Density, 5MHz OBW

Band	Modulation	Operation Frequency	Reading	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
WCS	64QAM	2355.0	14.8	2.0	16.8	63.0	-46.2
	16QAM	2355.0	14.1		16.1		-46.9
	QPSK	2355.0	15.0		17.0		-46.0

Figure 39 5 MHz - Average Power Spectral Density, 10MHz OBW

JUDGEMENT: Passed by 42.1 dB

See additional information in *Figure 40* to *Figure 63*.

RBW	1MHz
Antenna Port	1
Modulation	64QAM

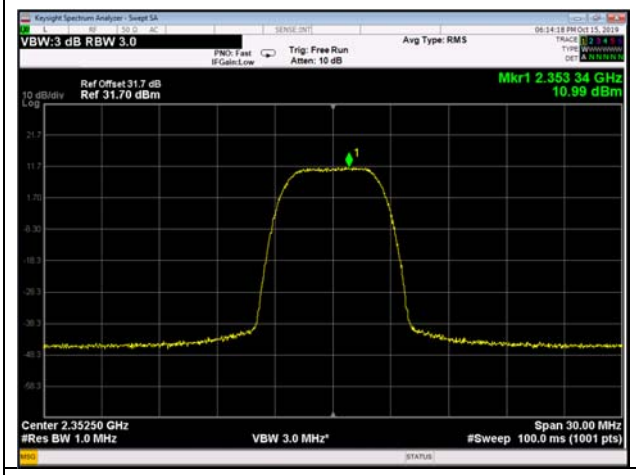

Figure 40 5MHz BW, 2352.5MHz

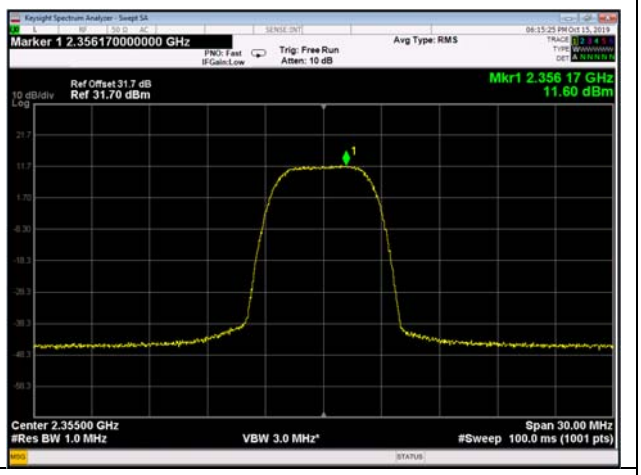

Figure 41 5MHz BW, 2355MHz

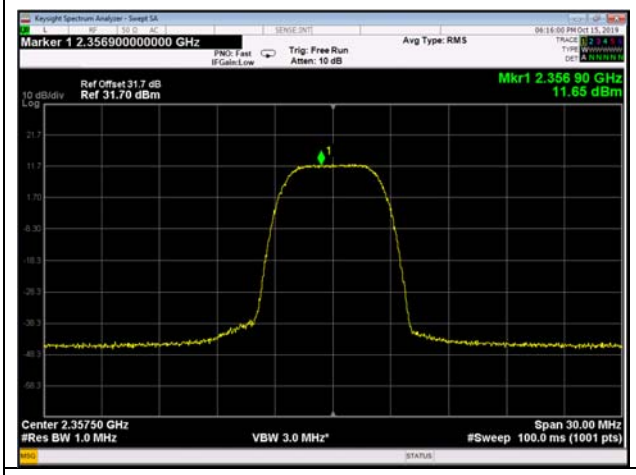

Figure 42 5MHz BW, 2357.5MHz

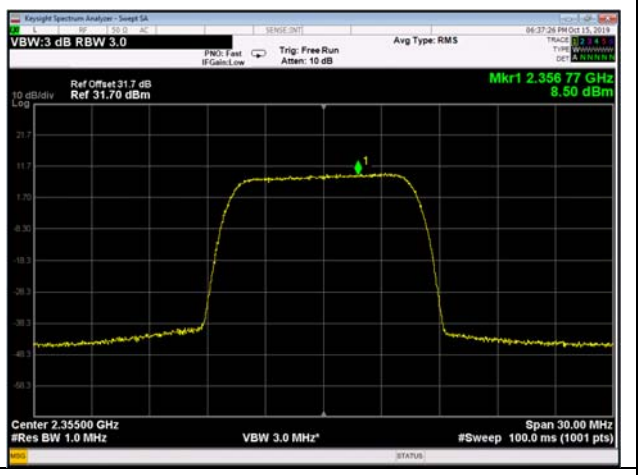

Figure 43 10MHz BW, 2355MHZ

RBW	1MHz
Antenna Port	1
Modulation	16QAM

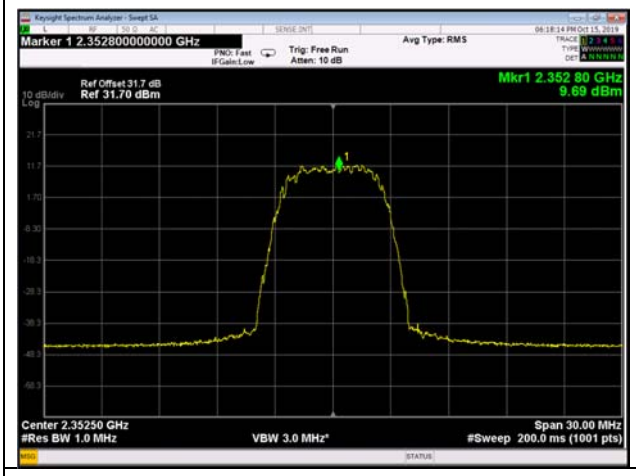

Figure 44 5MHz BW, 2352.5MHz

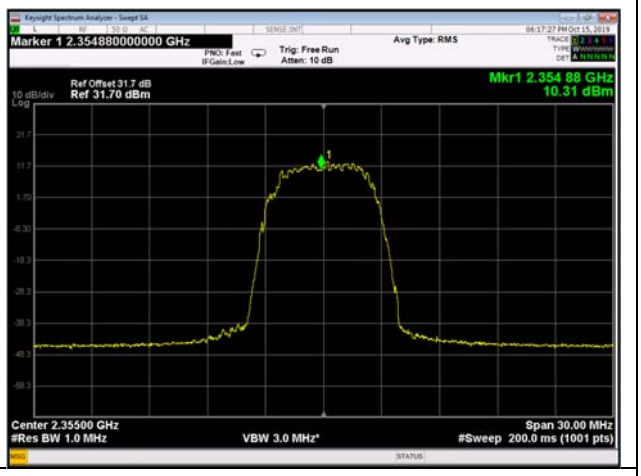

Figure 45 5MHz BW, 2355MHz

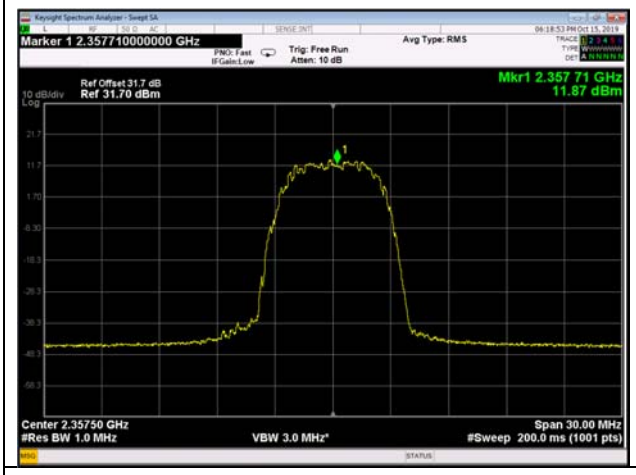

Figure 46 5MHz BW, 2357.5MHz

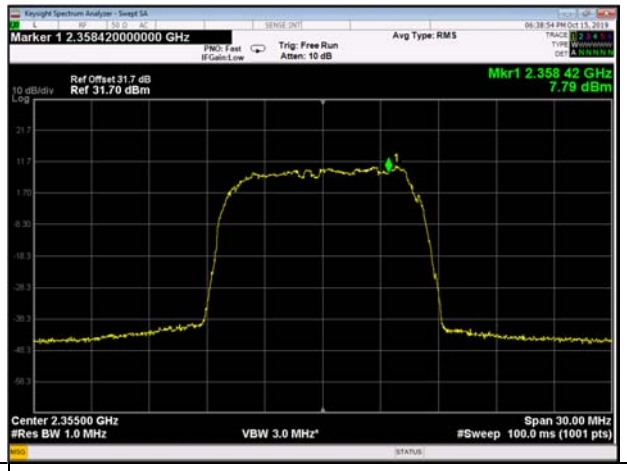

Figure 47 10MHz BW, 2355MHZ

RBW	**1MHz**
Antenna Port	**1**
Modulation	**QPSK**

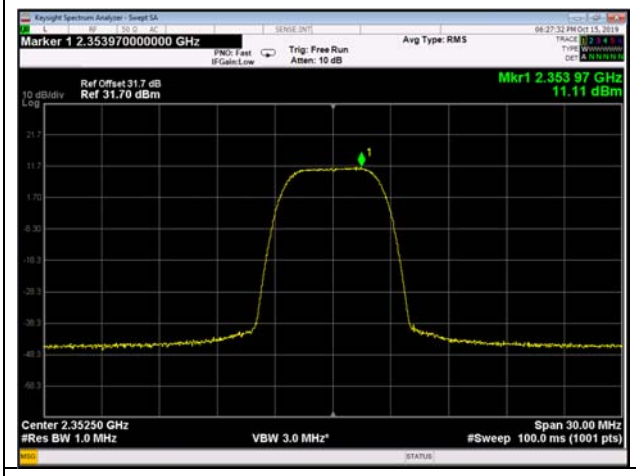

Figure 48 5MHz BW, 2352.5MHz

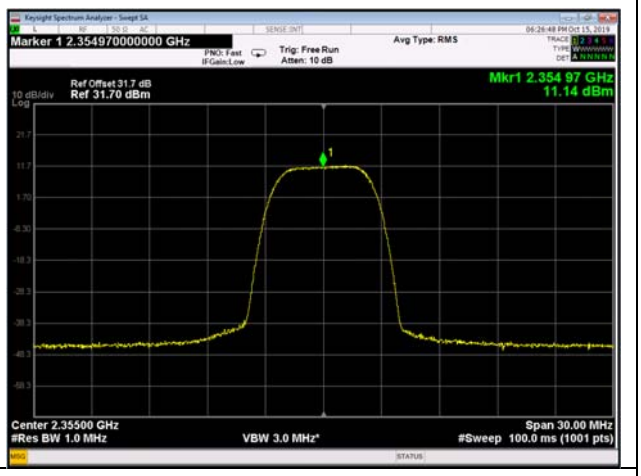

Figure 49 5MHz BW, 2355MHz

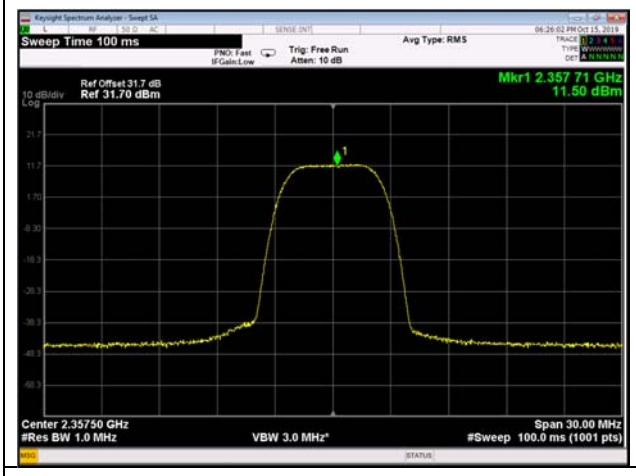

Figure 50 5MHz BW, 2357.5MHz

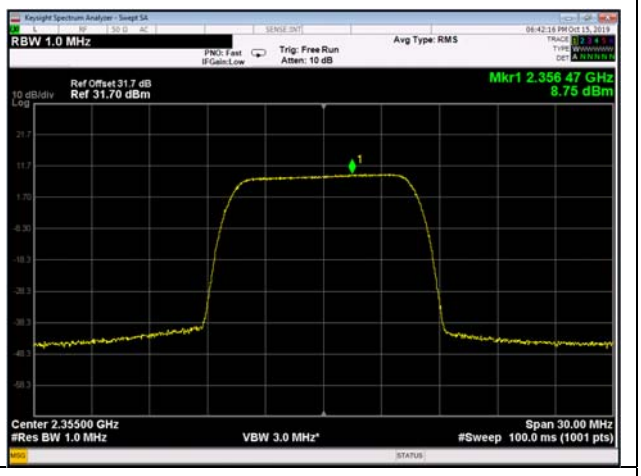

Figure 51 10MHz BW, 2355MHZ

RBW	5MHz
Antenna Port	1
Modulation	64QAM

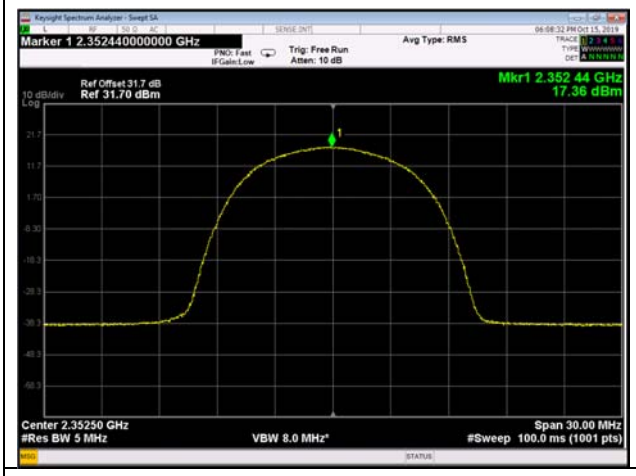

Figure 52 5MHz BW, 2352.5MHz

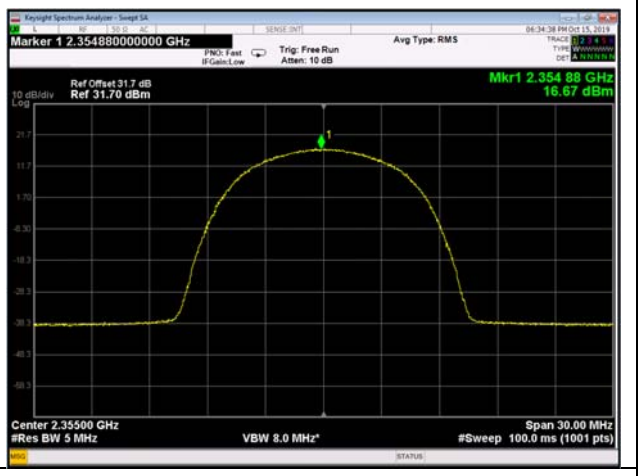

Figure 53 5MHz BW, 2355MHz

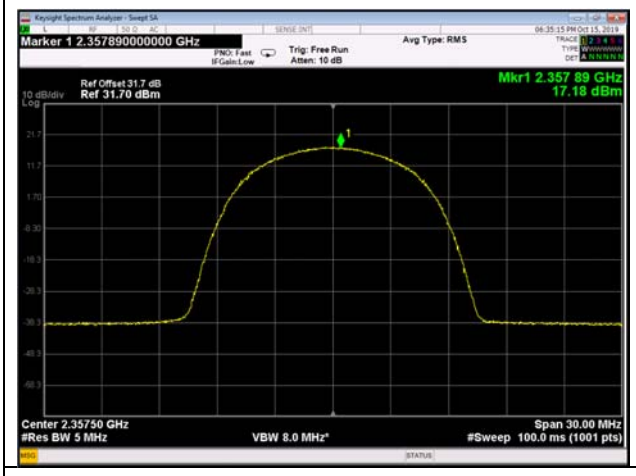

Figure 54 5MHz BW, 2357.5MHz

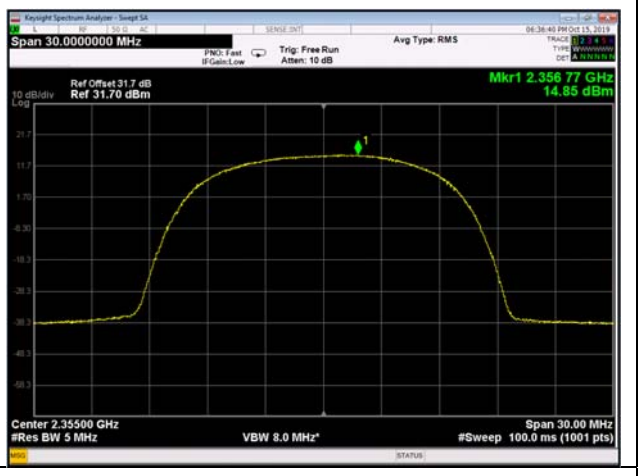

Figure 55 10MHz BW, 2355MHZ

RBW	5MHz
Antenna Port	1
Modulation	16QAM

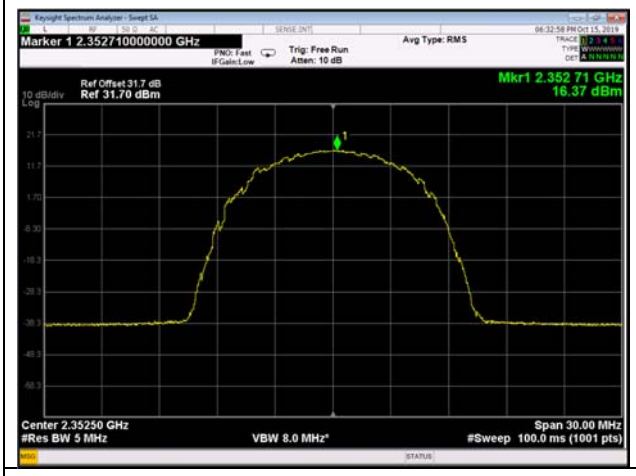

Figure 56 5MHz BW, 2352.5MHz

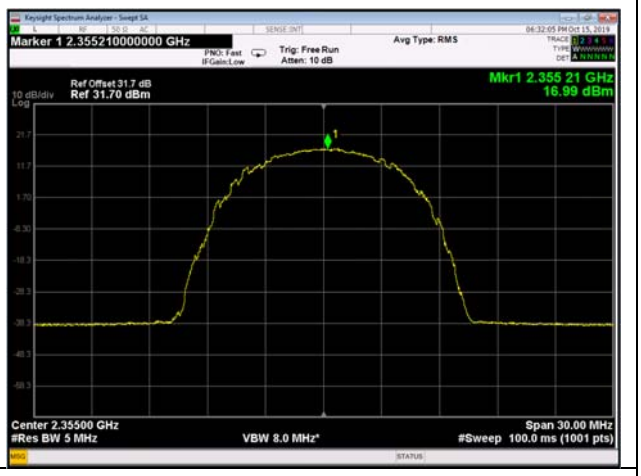

Figure 57 5MHz BW, 2355MHz

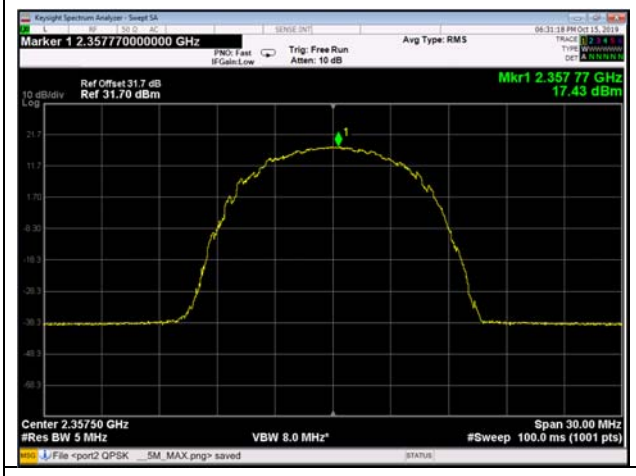

Figure 58 5MHz BW, 2357.5MHz

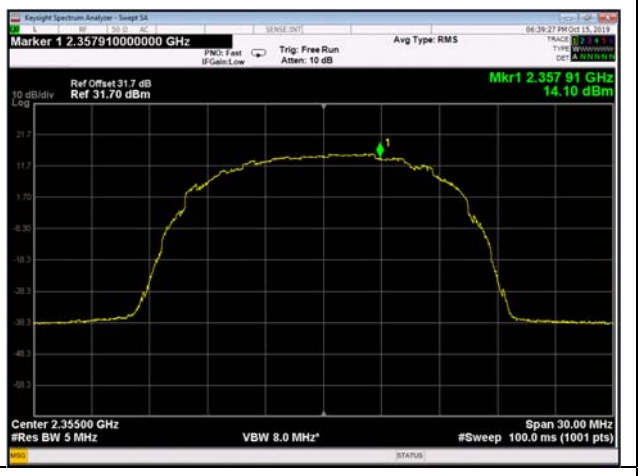

Figure 59 10MHz BW, 2355MHZ

RBW	**5MHz**
Antenna Port	**1**
Modulation	**QPSK**

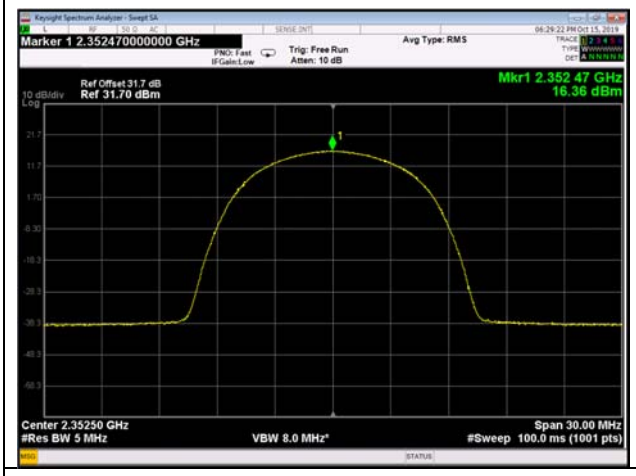

Figure 60 5MHz BW, 2352.5MHz

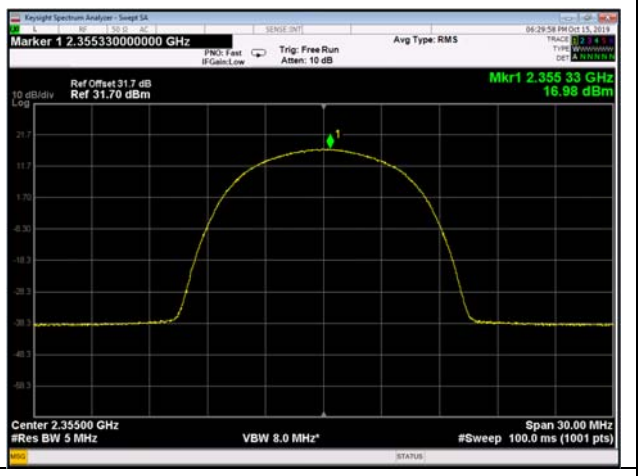

Figure 61 5MHz BW, 2355MHz

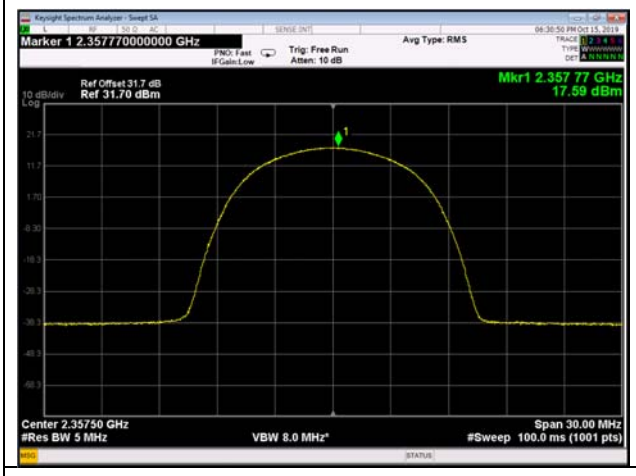

Figure 62 5MHz BW, 2357.5MHz

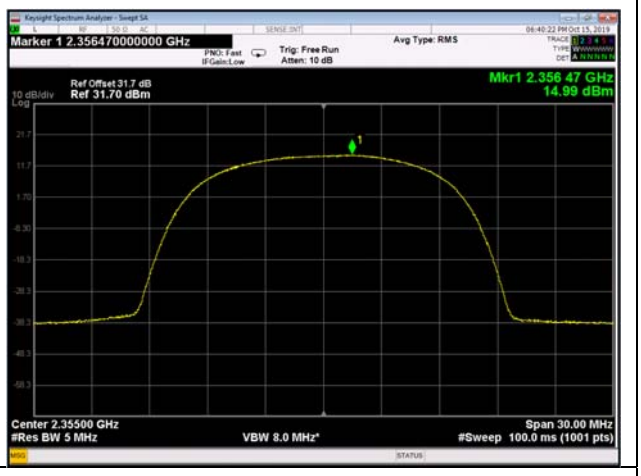

Figure 63 10MHz BW, 2355MHZ

5.5 Test Equipment Used; Average Power Spectral Density

Instrument	Manufacturer	Model	Serial Number	Calibration	
				Last Calibration Date	Next Calibration Date
Spectrum Analyzer	Agilent	N9010A	MY52220686	November 28, 2018	November 28, 2020
Vector Signal Generator	VIAVI	MTS 5800	WMNK00716 90263	July 1, 2018	July 1, 2021
Attenuator 10dB	Bird	8304-N10DB	-	December 24, 2018	December 31, 2019
Attenuator 20dB	Bird	8304-N20DB	-	December 24, 2018	December 31, 2019

Figure 64 Test Equipment Used

6. Peak to Average Power Ratio

6.1 Test Specification

FCC Part 27.50(a)(1)(B)

6.2 Test Procedure

(Temperature (22°C)/ Humidity (40%RH))
The method used is detailed in FCC KDB 971168 D03 v01
Measurements was using CCDF function for each modulation.

6.3 Test Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

6.4 Test Results

Band	Modulation	Operation Frequency	0.1% PAPR	Limit	Margin
		(MHz)	(dBm)	(dBm)	(dB)
WCS	QPSK	2352.5	8.3	13.0	4.7
		2355.0	8.4		4.6
		2357.5	8.4		4.6
	16QAM	2352.5	8.3		4.7
		2355.0	8.3		4.7
		2357.5	8.4		4.6
	64QAM	2352.5	8.3		4.7
		2355.0	8.3		4.7
		2357.5	8.3		4.7

Table 1 Test Results Peak to Average Power Ratio, 5MHz BW

Band	Modulation	Operation Frequency	0.1% PAPR	Limit	Margin
		(MHz)	(dBm)	(dBm)	(dB)
WCS	QPSK	2355.0	8.4	13.0	4.6
	16QAM	2355.0	8.3		4.7
	64QAM	2355.0	8.4		4.6

Table 2 Test Results Peak to Average Power Ratio, 10MHz BW

JUDGEMENT: Passed

For additional information see *Figure 65* to *Figure 76.*

RBW	**5MHz**
Antenna Port	**1**
Modulation	**16QAM**

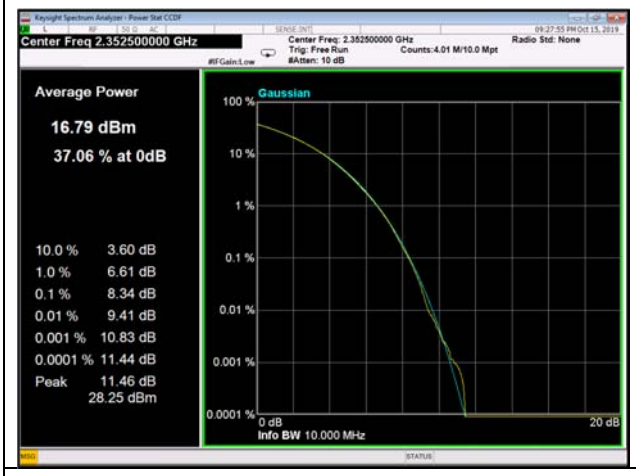

Figure 65 5MHz BW, 2352.5MHz

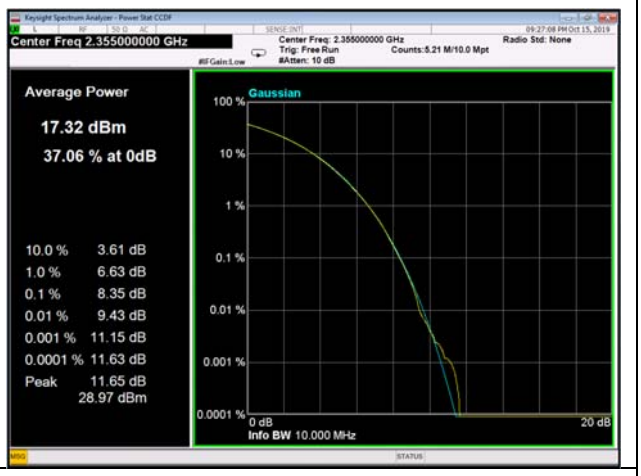

Figure 66 5MHz BW, 2355MHz

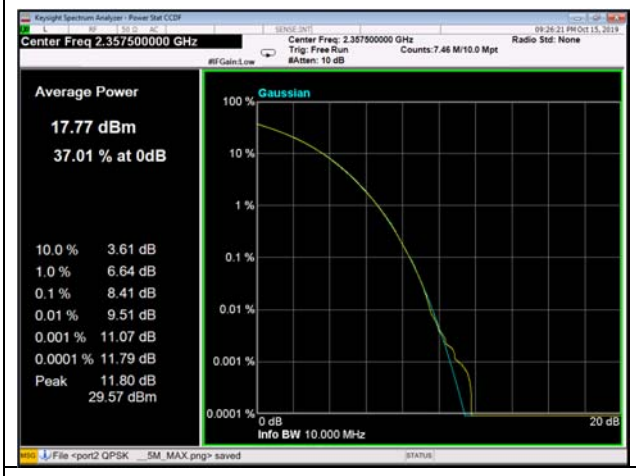

Figure 67 5MHz BW, 2357.5MHz

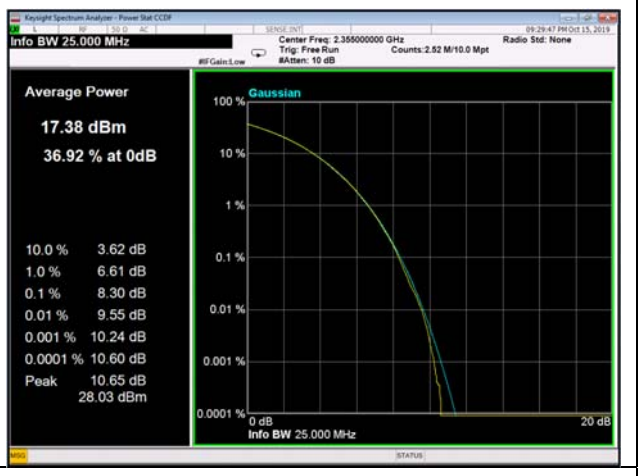

Figure 68 10MHz BW, 2355MHZ

RBW	**5MHz**
Antenna Port	**1**
Modulation	**64QAM**

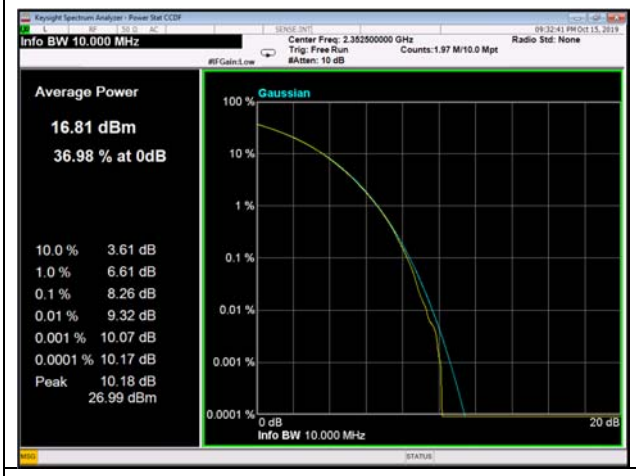

Figure 69 5MHz BW, 2352.5MHz

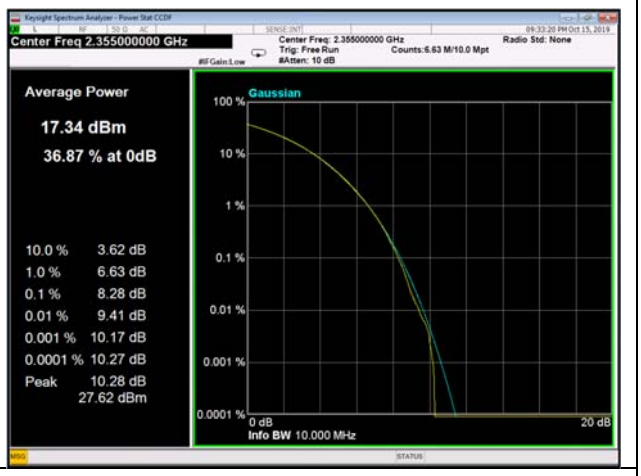

Figure 70 5MHz BW, 2355MHz

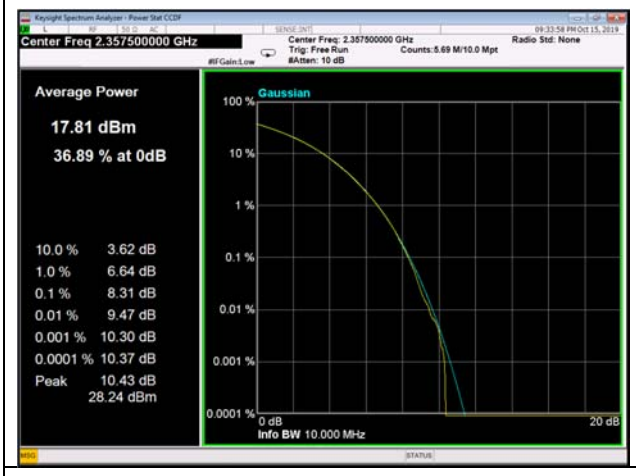

Figure 71 5MHz BW, 2357.5MHz

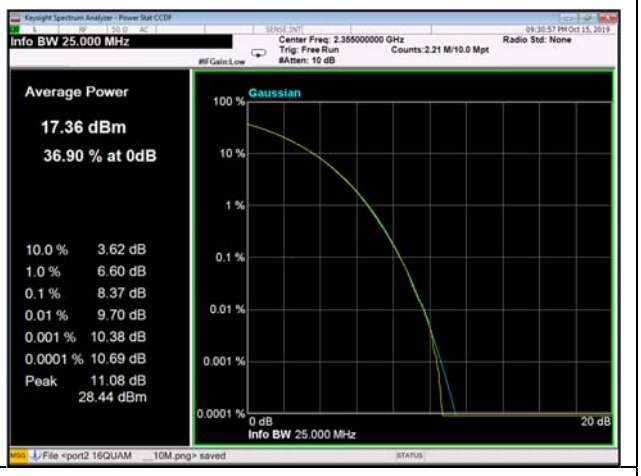

Figure 72 10MHz BW, 2355MHZ

RBW	**5MHz**
Antenna Port	**1**
Modulation	**QPSK**

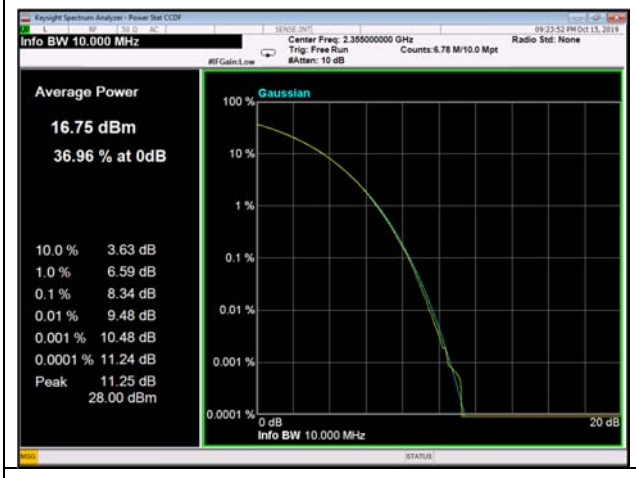

Figure 73 5MHz BW, 2352.5MHz

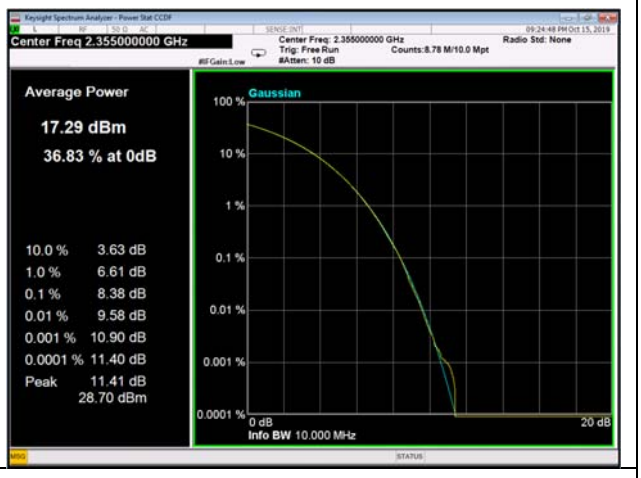

Figure 74 5MHz BW, 2355MHz

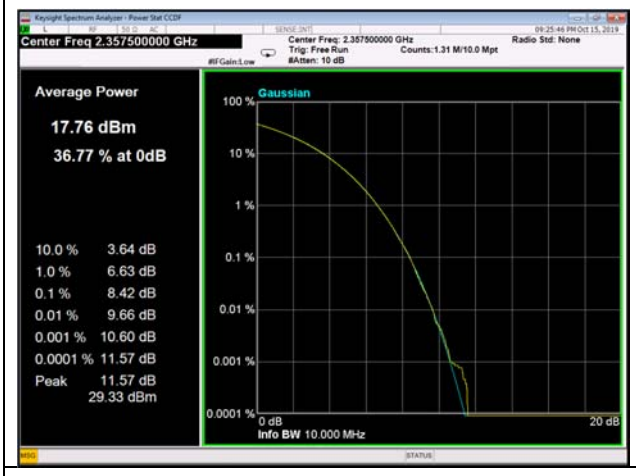

Figure 75 5MHz BW, 2357.5MHz

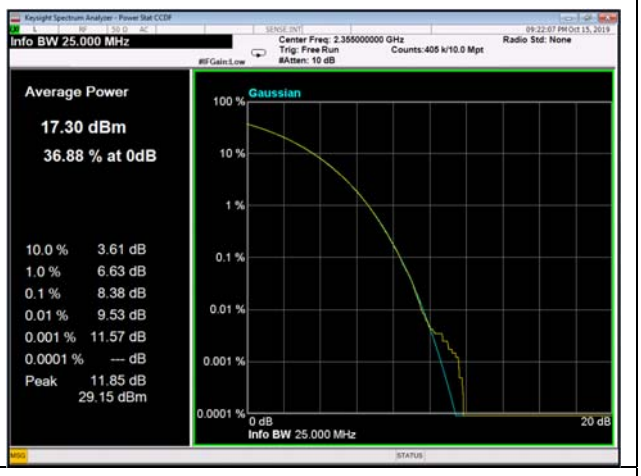

Figure 76 10MHz BW, 2355MHZ

6.5 Test Equipment Used; 0.1% PAPR

Instrument	Manufacturer	Model	Serial Number	Calibration	
				Last Calibration Date	Next Calibration Date
Spectrum Analyzer	Agilent	N9010A	MY52220686	November 28, 2018	November 28, 2020
Vector Signal Generator	VIAVI	MTS 5800	WMNK0071690263	July 1, 2018	July 1, 2021

Figure 77 Test Equipment Used

7. Occupied Bandwidth

7.1 Test Specification

FCC Part 2, Section 1049

7.2 Test Procedure

(Temperature (22°C)/ Humidity (40%RH))
The E.U.T. was set to the applicable test frequency with modulation. The E.U.T. antenna terminal was connected to the spectrum analyzer through appropriate coaxial cable. The OBW function (99%) was used for this evaluation. RBW was set to 100 kHz.
Occupied bandwidth measured was repeated for each modulation.

7.3 Test Limit

N/A

7.4 Test Results

Modulation	Operating Frequency [MHz]	Reading [MHz]
QPSK	2352.5	4.5
	2355.0	4.5
	2357.5	4.5
16QAM	2352.5	4.5
	2355.0	4.5
	2357.5	4.5
64QAM	2352.5	4.5
	2355.0	4.5
	2357.5	4.5

Figure 78 Occupied Bandwidth WCS, 5MHz OBW

Modulation	Operating Frequency [MHz]	Reading [MHz]
QPSK	2355	9.0
16QAM	2355	9.0
64QAM	2355	9.0

Figure 79 Occupied Bandwidth WCS, 10MHz OBW

JUDGEMENT: Passed

See additional information in *Figure 80* to *Figure 91*.

Antenna Port	1
Modulation	16QAM

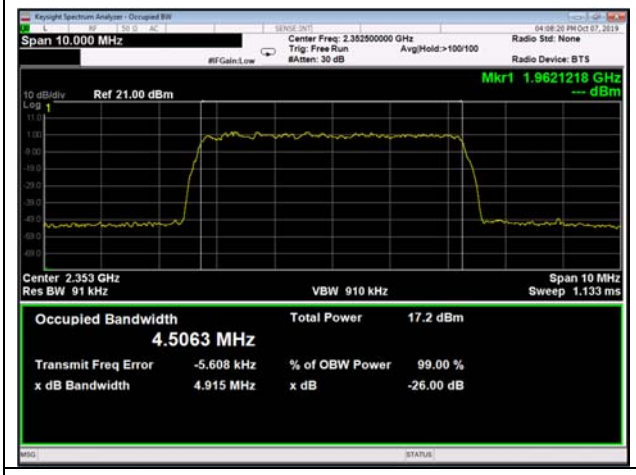

Figure 80 5MHz BW, 2352.5MHz

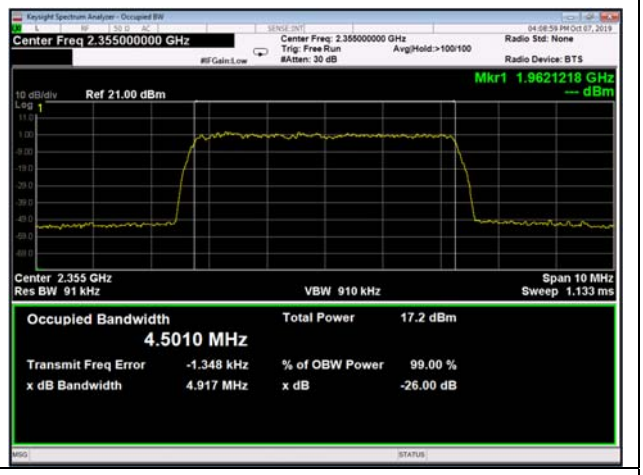

Figure 815MHz BW, 2355MHz

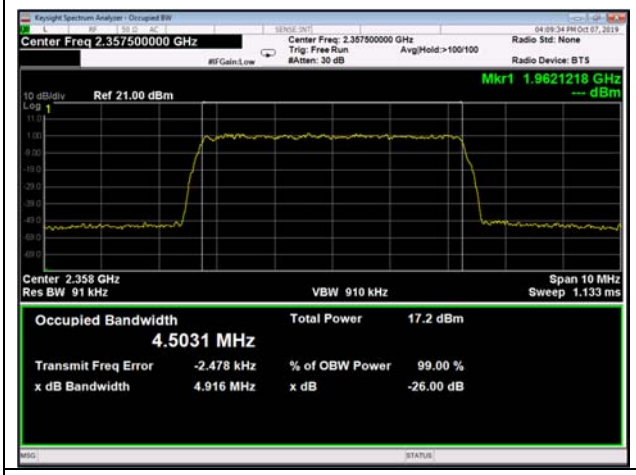

Figure 82 5MHz BW, 2357.5MHz

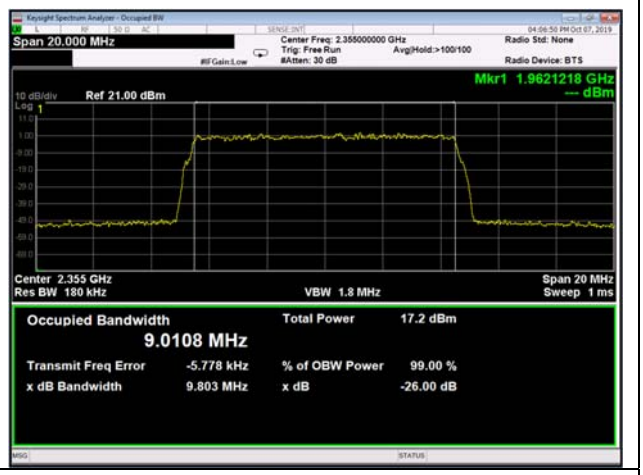

Figure 83 10MHz BW, 2355MHZ

Antenna Port	1
Modulation	64QAM

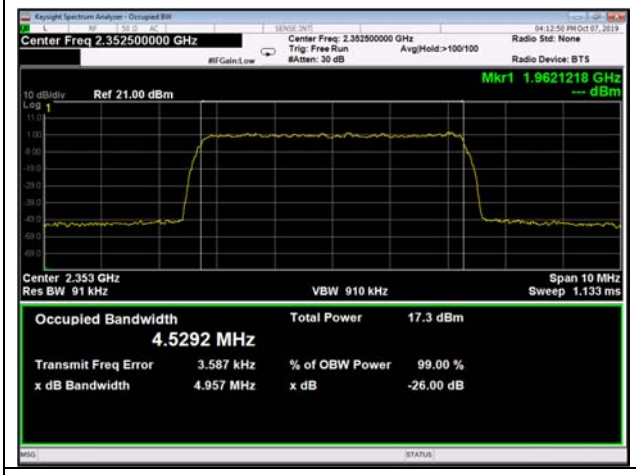

Figure 84 5MHz BW, 2352.5MHz

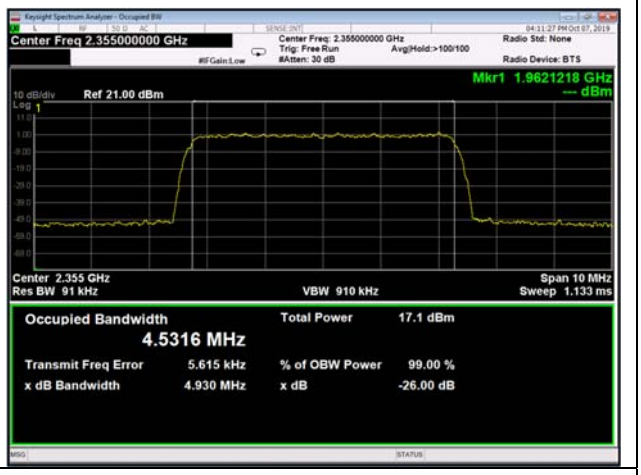

Figure 855MHz BW, 2355MHz

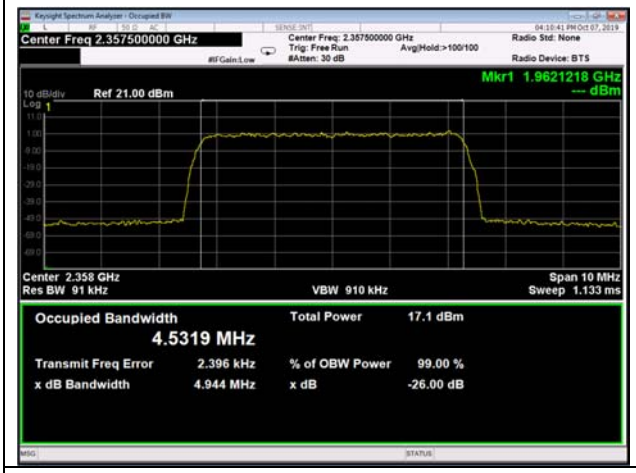

Figure 86 5MHz BW, 2357.5MHz

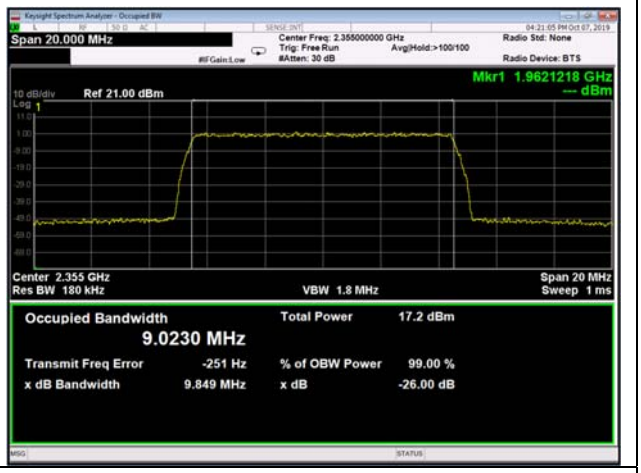

Figure 87 10MHz BW, 2355MHZ

Antenna Port	1
Modulation	QPSK

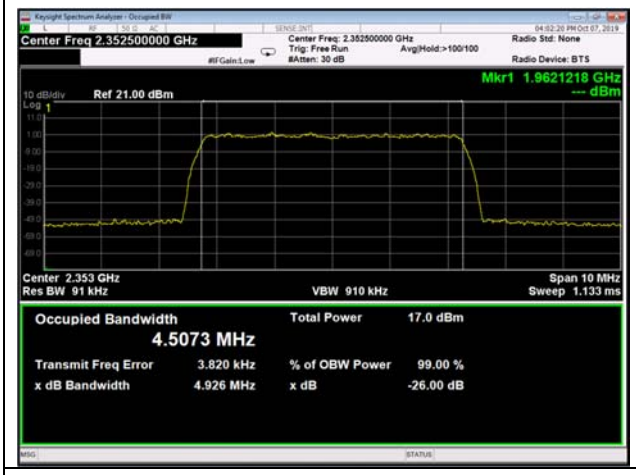

Figure 88 5MHz BW, 2352.5MHz

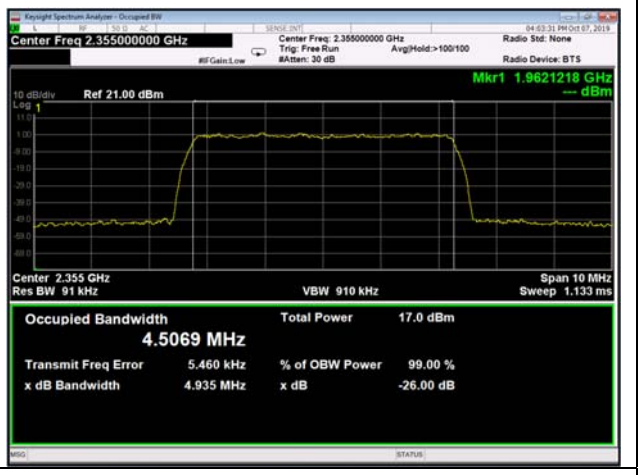

Figure 895MHz BW, 2355MHz

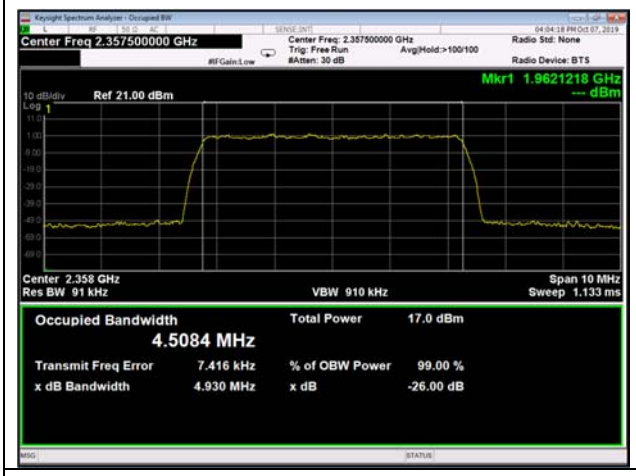

Figure 90 5MHz BW, 2357.5MHz

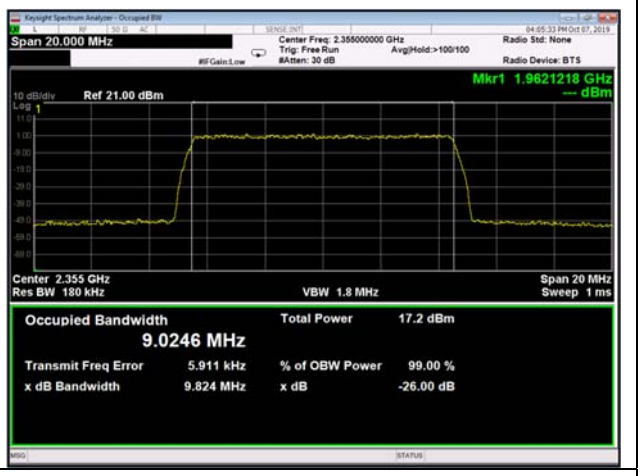

Figure 91 10MHz BW, 2355MHZ

7.5 Test Equipment Used; Occupied Bandwidth

Instrument	Manufacturer	Model	Serial Number	Calibration	
				Last Calibration Date	Next Calibration Date
Spectrum Analyzer	Agilent	N9010A	MY52220686	November 28, 2018	November 28, 2020
Vector Signal Generator	VIAVI	MTS 5800	WMNK0071690263	July 1, 2018	July 1, 2021

Figure 92 Test Equipment Used