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**DATE: 22 June 2020**

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

# FCC Radio Test Report

**For**

## Corning Optical Communication Wireless

**Equipment under test:**

## ONE - Distributed Antenna System

### Remote Extender Unit RXU2325

### (TDD Section 2496-2690MHz Band)

Tested by: _____
M. Zohar

Approved by: _____
D. Shidlowsky

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# Measurement/Technical Report for
# Corning Optical Communication Wireless

# ONE - Distributed Antenna System

## FCC ID: OJF1RXUN

| | |
|---|---|
| This report concerns: | Original Grant:<br>Class II change: X<br>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:

D. Shidlowsky
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e-mail davids@iltglobal.org

Applicant for this device: (different from "prepared by")

Isaac Nissan
Corning Optical Communication Wireless
8253 1st Street
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e-mail: NissanI@corning.com

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# 1 General Information

## *1.1 Administrative Information*

| | |
|---|---|
| Manufacturer: | Corning Optical Communication Wireless |
| Manufacturer's Address: | 8253 1st Street<br>Vienna, VA 22812<br>U.S.A.<br>Tel: +1-703 855-1773 |
| Manufacturer's Representative: | Isaac Nissan |
| Equipment Under Test (E.U.T): | ONE - Distributed Antenna System |
| Equipment Model No.: | Remote Extender Unit RXU2325 |
| Equipment Serial No.: | Not Designated |
| Date of Receipt of E.U.T: | February 02, 2020 |
| Start of Test: | February 06, 2020 |
| End of Test: | April 13, 2020 (See Note below) |
| Test Laboratory Location: | I.T.L (Product Testing) Ltd.<br>1 Batsheva St,<br>Lod,<br>Israel 7116002 |
| Test Specifications: | FCC Parts 2; 27 |

Note: Spurious radiated emission testing was performed on April 13, 2020.

## 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 is IL1005.
3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
4. The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) (Japan), Registration Numbers: C-20025, R-2729, T-20028, G-20068.
5. 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

The RxU2325 is an add-on module which plugs into the RAU (either RAU5x, RAU5 or RAU4) and enables support for two additional bands: 2.3 GHz WCS and 2.5 GHz LTE (TDD).

### 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 (CISPR 11, EN 55011, CISPR 32, EN 55032, ANSI C63.4)
0.15 – 30 MHz:
Expanded Uncertainty (95% Confidence, K=2):
± 3.44 dB

Radiated Emission (CISPR 11, EN 55011, CISPR 32, EN 55032, ANSI C63.4) for open site 30-1000MHz:

Expanded Uncertainty (95% Confidence, K=2):

± 4.98 dB

# 2 System Test Configuration

## 2.1 Justification

The E.U.T. was previously tested for FCC certification as follows:
The EUT consists of the RXU2325 installed in RAU5X
The E.U.T. has been fully tested receiving signals from the RAU5X.
The test setup was configured to closely resemble the standard installation.
All source signals are represented in the setup by appropriate signal generators.
An "Exercise" SW on the computer was used to enable / disable transmission of the RAU5x, while the EUT output was connected to the spectrum analyzer.
All channels transmitted during the testing.
There is neither an intermediate amplified nor donor antenna in the uplink.
All components included in the UL path are connected by cables.
Presently the following tests were performed in order to allow the use of 5G:
RF output power, occupied bandwidth, and spurious emissions.

## 2.2 EUT Exercise Software

rxut_ab64_37_50

## 2.3 Special Accessories

No special accessories were needed in order to achieve compliance.

## 2.4 Equipment Modifications

No modifications were necessary in order to achieve compliance.

## 2.5 Configuration of Tested System

| | |
|---|---|
| Product Name | ONE Distributed Antenna System |
| Model Name | RXU 2325 |
| Working voltage | 48.0VDC |
| Mode of operation | Industrial Booster for TDD 2.5G band |
| Modulations | 64QAM, 16QAM, 256QAM |
| Assigned Frequency Range | 2496.0MHz-2690.0MHz |
| Operation Frequency Range | 2496.0MHz-2690.0MHz |
| Transmit power | ~20.0dBm |
| Antenna Gain | 12.5 dBi |
| DATA rate | N/A |
| Modulation BW | 10.0MHz |

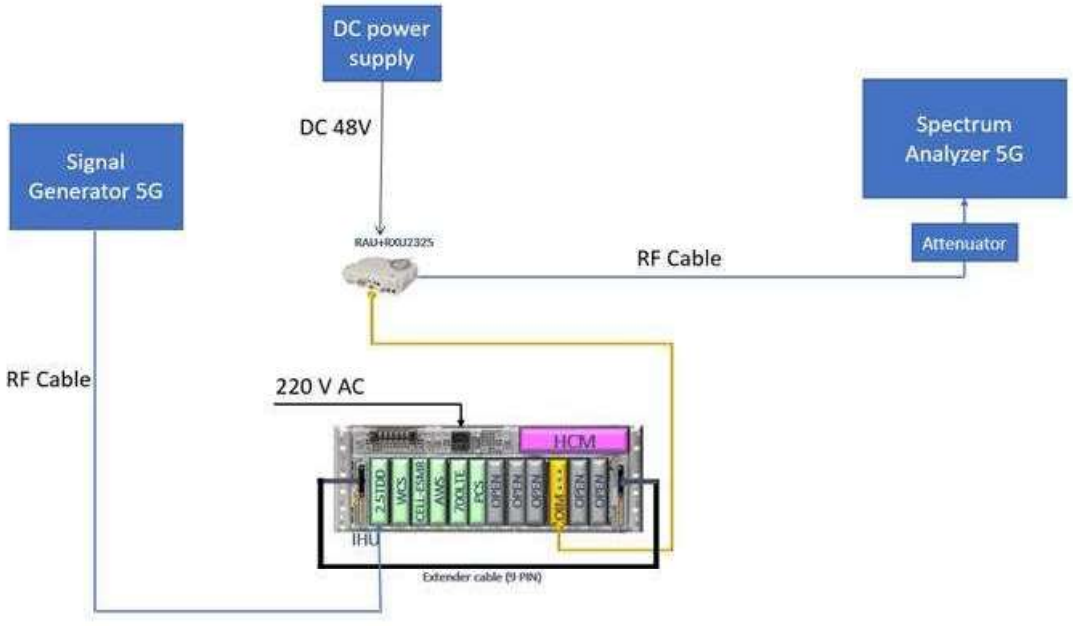


**Figure 1. Conducted Test Set-Up**

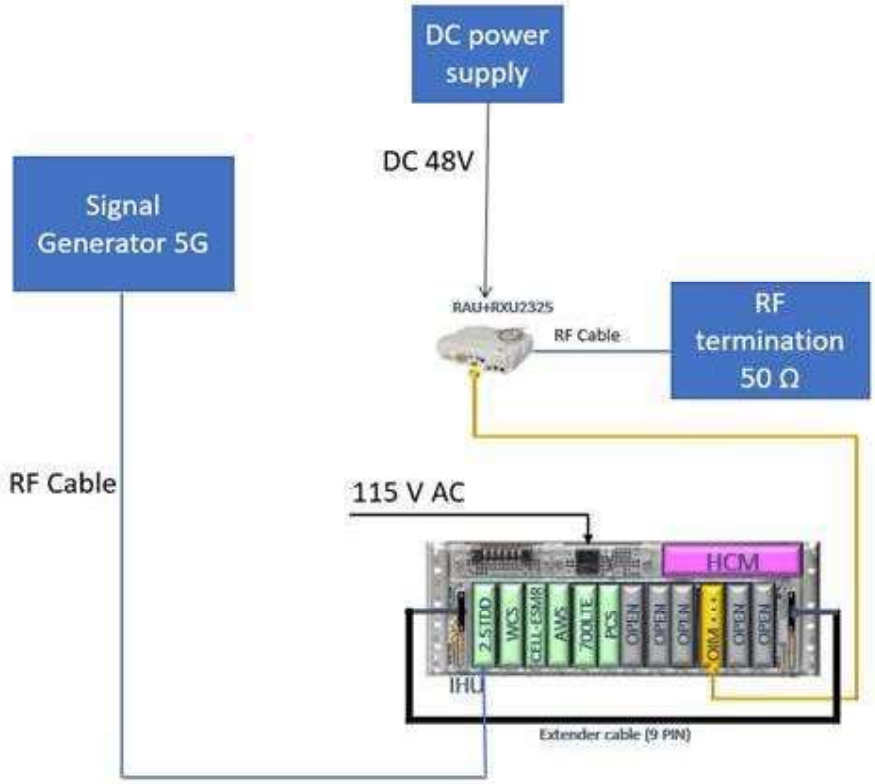


**Figure 2. Radiated Test Set-Up**

# 3 Test Set-Up Photos

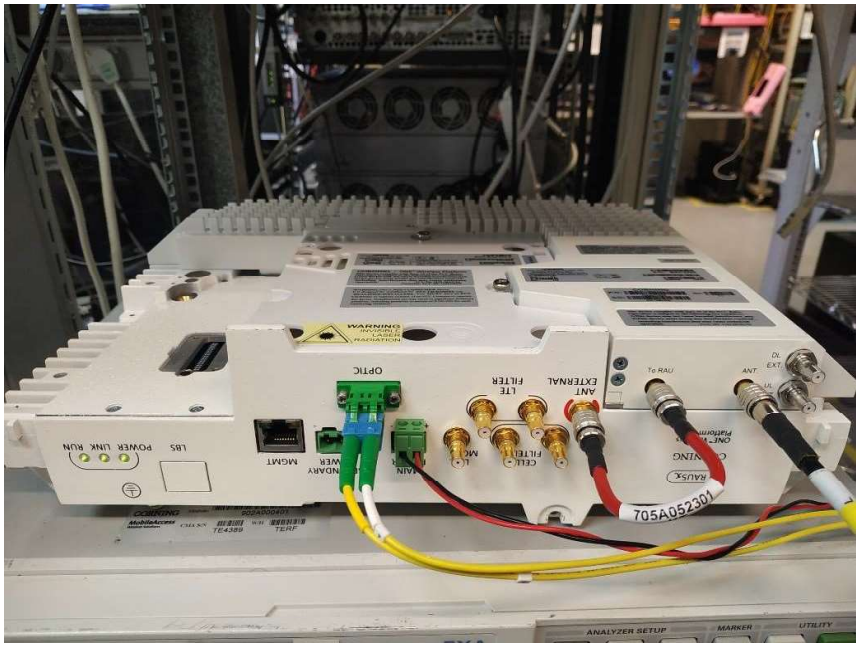


**Figure 3. Conducted Emission From Antenna Port Tests**

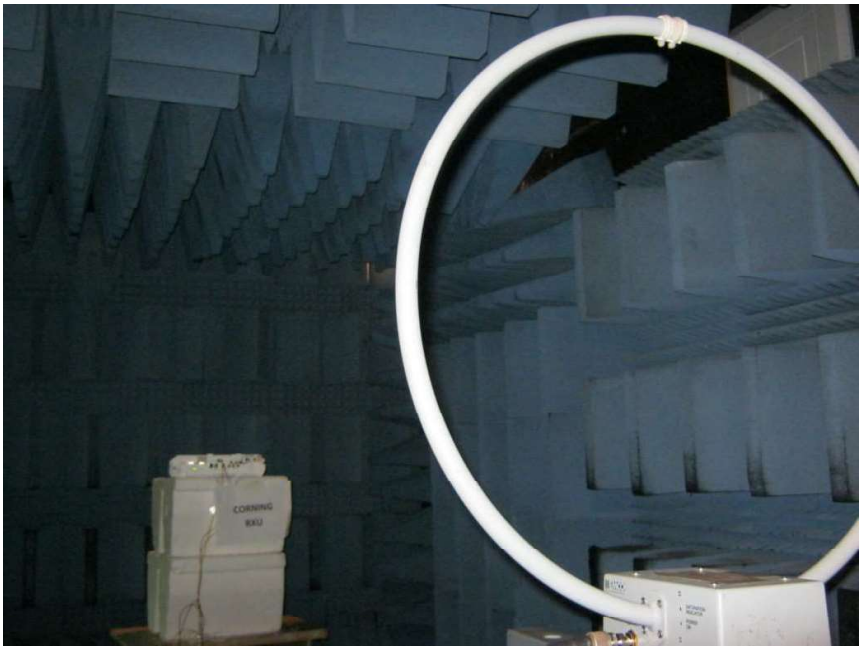

**Figure 4. Radiated Emission Test 9kHz - 30MHz**


**Figure 5. Radiated Emission Test 30 - 200 MHz**


**Figure 6. Radiated Emission Test 200 - 1000MHz**


**Figure 7. Radiated Emission Test 1-18GHz**


**Figure 8. Radiated Emission Test 18-26.5GHz**

# 4 RF Power Output

## 4.1 Test Specification

FCC Part 27, Subpart C (27.50)

## 4.2 Test Procedure

(Temperature (23°C)/ Humidity (35%RH))

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an external attenuator and an appropriate coaxial cable (31.0 dB). Special attention was taken to prevent Spectrum Analyzer RF input overload.

## 4.3 Test Limit

The maximum EIRP of a main, booster or base station shall not exceed 33 dBW + 10log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition. The limit is calculated to be 62.2 dBm.

## 4.4 Test Results

JUDGEMENT: Passed

See additional information in Table 1 to Table 6 and Figure 9 to Figure 152.

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading | Antenna Gain | EIRP | Limit | Margin |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 16QAM | 5 | 15 | 2498.5 | 19.24 | 12.5 | 31.7 | 62.2 | -30.5 |
| | | 30 | | 19.26 | | 31.8 | 62.2 | -30.4 |
| | | 15 | 2593.0 | 18.88 | | 31.4 | 62.2 | -30.8 |
| | | 30 | | 19.29 | | 31.8 | 62.2 | -30.4 |
| | | 15 | 2687.5 | 19.22 | | 31.7 | 62.2 | -30.5 |
| | | 30 | | 19.76 | | 32.3 | 62.2 | -29.9 |
| | 10 | 15 | 2501.0 | 18.76 | | 31.3 | 62.2 | -30.9 |
| | | 30 | | 18.78 | | 31.3 | 62.2 | -30.9 |
| | | 60 | | 19.81 | | 32.3 | 62.2 | -29.9 |
| | | 15 | 2593.0 | 18.19 | | 30.7 | 62.2 | -31.5 |
| | | 30 | | 18.68 | | 31.2 | 62.2 | -31.0 |
| | | 60 | | 19.89 | | 32.4 | 62.2 | -29.8 |
| | | 15 | 2685.0 | 18.55 | | 31.1 | 62.2 | -31.2 |
| | | 30 | | 18.77 | | 31.3 | 62.2 | -30.9 |
| | | 60 | | 19.86 | | 32.4 | 62.2 | -29.8 |
| | 15 | 15 | 2503.0 | 19.63 | | 32.1 | 62.2 | -30.1 |
| | | 30 | | 19.59 | | 32.1 | 62.2 | -30.1 |
| | | 60 | | 19.69 | | 32.2 | 62.2 | -30.0 |
| | | 15 | 2593.0 | 20.10 | | 32.6 | 62.2 | -29.6 |
| | | 30 | | 19.86 | | 32.4 | 62.2 | -29.8 |
| | | 60 | | 19.09 | | 31.6 | 62.2 | -30.6 |
| | | 15 | 2682.5 | 19.30 | | 31.8 | 62.2 | -30.4 |
| | | 30 | | 19.53 | | 32.0 | 62.2 | -30.2 |
| | | 60 | | 19.14 | | 31.6 | 62.2 | -30.6 |
| | 20 | 15 | 2506.0 | 19.87 | | 32.4 | 62.2 | -29.8 |
| | | 30 | | 19.92 | | 32.4 | 62.2 | -29.8 |
| | | 60 | | 19.48 | | 32.0 | 62.2 | -30.2 |
| | | 15 | 2593.0 | 19.28 | | 31.8 | 62.2 | -30.4 |
| | | 30 | | 19.26 | | 31.8 | 62.2 | -30.4 |
| | | 60 | | 19.00 | | 31.5 | 62.2 | -30.7 |
| | | 15 | 2680.0 | 18.74 | | 31.2 | 62.2 | -31.0 |
| | | 30 | | 19.13 | | 31.6 | 62.2 | -30.6 |
| | | 60 | | 18.97 | | 31.5 | 62.2 | -30.7 |

**Table 1 RF Power Output 16QAM**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading | Antenna Gain | EIRP | Limit | Margin |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 16QAM | 40 | 15 | 2516.0 | 19.47 | 12.5 | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.24 | | 31.7 | 62.2 | -30.5 |
| | | 60 | | 19.71 | | 32.2 | 62.2 | -30.0 |
| | | 15 | 2593.0 | 18.95 | | 31.5 | 62.2 | -30.8 |
| | | 30 | | 19.06 | | 31.6 | 62.2 | -30.6 |
| | | 60 | | 19.17 | | 31.7 | 62.2 | -30.5 |
| | | 15 | 2670.0 | 19.16 | | 31.7 | 62.2 | -30.5 |
| | | 30 | | 19.28 | | 31.8 | 62.2 | -30.4 |
| | | 60 | | 19.74 | | 32.2 | 62.2 | -30.0 |
| | 60 | 30 | 2526.0 | 19.43 | | 31.9 | 62.2 | -30.3 |
| | | 60 | | 19.86 | | 32.4 | 62.2 | -29.8 |
| | | 30 | 2593.0 | 19.27 | | 31.8 | 62.2 | -30.4 |
| | | 60 | | 19.23 | | 31.7 | 62.2 | -30.5 |
| | | 30 | 2660.0 | 19.82 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.52 | | 32.0 | 62.2 | -30.2 |

**Table 2 RF Power Output 16QAM**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading | Antenna Gain | EIRP | Limit | Margin |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 64QAM | 5 | 15 | 2498.5 | 19.60 | 12.5 | 32.1 | 62.2 | -30.1 |
| | | 30 | | 19.78 | | 32.3 | 62.2 | -29.9 |
| | | 15 | 2593.0 | 19.23 | | 31.7 | 62.2 | -30.5 |
| | | 30 | | 19.41 | | 31.9 | 62.2 | -30.3 |
| | | 15 | 2687.5 | 19.07 | | 31.6 | 62.2 | -30.6 |
| | | 30 | | 19.65 | | 32.2 | 62.2 | -30.1 |
| | 10 | 15 | 2501.0 | 19.92 | | 32.4 | 62.2 | -29.8 |
| | | 30 | | 20.08 | | 32.6 | 62.2 | -29.6 |
| | | 60 | | 19.96 | | 32.5 | 62.2 | -29.7 |
| | | 15 | 2593.0 | 19.36 | | 31.9 | 62.2 | -30.3 |
| | | 30 | | 19.65 | | 32.2 | 62.2 | -30.1 |
| | | 60 | | 19.36 | | 31.9 | 62.2 | -30.3 |
| | | 15 | 2685.0 | 19.48 | | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.62 | | 32.1 | 62.2 | -30.1 |
| | | 60 | | 19.51 | | 32.0 | 62.2 | -30.2 |
| | 15 | 15 | 2503.5 | 19.51 | | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.40 | | 31.9 | 62.2 | -30.3 |
| | | 60 | | 19.35 | | 31.9 | 62.2 | -30.4 |
| | | 15 | 2593.0 | 19.51 | | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.40 | | 31.9 | 62.2 | -30.3 |
| | | 60 | | 19.59 | | 32.1 | 62.2 | -30.1 |
| | | 15 | 2682.5 | 19.52 | | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.45 | | 32.0 | 62.2 | -30.3 |
| | | 60 | | 19.41 | | 31.9 | 62.2 | -30.3 |
| | 20 | 15 | 2506.0 | 19.67 | | 32.2 | 62.2 | -30.0 |
| | | 30 | | 19.69 | | 32.2 | 62.2 | -30.0 |
| | | 60 | | 19.68 | | 32.2 | 62.2 | -30.0 |
| | | 15 | 2593.0 | 19.68 | | 32.2 | 62.2 | -30.0 |
| | | 30 | | 19.73 | | 32.2 | 62.2 | -30.0 |
| | | 60 | | 19.67 | | 32.2 | 62.2 | -30.0 |
| | | 15 | 2680.0 | 19.60 | | 32.1 | 62.2 | -30.1 |
| | | 30 | | 19.53 | | 32.0 | 62.2 | -30.2 |
| | | 60 | | 19.47 | | 32.0 | 62.2 | -30.2 |

**Table 3 RF Power Output 64QAM**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading | Antenna Gain | EIRP | Limit | Margin |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 64QAM | 40 | 15 | 2516.0 | 19.77 | 12.5 | 32.3 | 62.2 | -29.9 |
| | | 30 | | 19.84 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.89 | | 32.4 | 62.2 | -29.8 |
| | | 15 | 2593.0 | 19.87 | | 32.4 | 62.2 | -29.8 |
| | | 30 | | 18.93 | | 31.4 | 62.2 | -30.8 |
| | | 60 | | 19.16 | | 31.7 | 62.2 | -30.5 |
| | | 15 | 2670.0 | 19.75 | | 32.3 | 62.2 | -30.0 |
| | | 30 | | 19.74 | | 32.2 | 62.2 | -30.0 |
| | | 60 | | 19.82 | | 32.3 | 62.2 | -29.9 |
| | 60 | 30 | 2526.0 | 18.90 | | 31.4 | 62.2 | -30.8 |
| | | 60 | | 18.93 | | 31.4 | 62.2 | -30.8 |
| | | 30 | 2593.0 | 20.09 | | 32.6 | 62.2 | -29.6 |
| | | 60 | | 19.54 | | 32.0 | 62.2 | -30.2 |
| | | 30 | 2660.0 | 19.55 | | 32.1 | 62.2 | -30.2 |
| | | 60 | | 19.10 | | 31.6 | 62.2 | -30.6 |

**Table 4 RF Power Output 64QAM**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading | Antenna Gain | EIRP | Limit | Margin |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 256QAM | 5 | 15 | 2498.5 | 18.83 | 12.5 | 31.3 | 62.2 | -30.9 |
| | | 30 | | 19.31 | | 31.8 | 62.2 | -30.4 |
| | | 15 | 2593.0 | 19.84 | | 32.3 | 62.2 | -29.9 |
| | | 30 | | 19.58 | | 32.1 | 62.2 | -30.1 |
| | | 15 | 2687.5 | 19.52 | | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.39 | | 31.9 | 62.2 | -30.3 |
| | 10 | 15 | 2501.0 | 19.81 | | 32.3 | 62.2 | -29.9 |
| | | 30 | | 19.63 | | 32.1 | 62.2 | -30.1 |
| | | 60 | | 19.53 | | 32.0 | 62.2 | -30.2 |
| | | 15 | 2593.0 | 19.69 | | 32.2 | 62.2 | -30.0 |
| | | 30 | | 19.73 | | 32.2 | 62.2 | -30.0 |
| | | 60 | | 19.94 | | 32.4 | 62.2 | -29.8 |
| | | 15 | 2685.0 | 19.37 | | 31.9 | 62.2 | -30.3 |
| | | 30 | | 19.54 | | 32.0 | 62.2 | -30.2 |
| | | 60 | | 19.37 | | 31.9 | 62.2 | -30.3 |
| | 15 | 15 | 2503.5 | 19.68 | | 32.2 | 62.2 | -30.0 |
| | | 30 | | 19.78 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.74 | | 32.2 | 62.2 | -30.0 |
| | | 15 | 2593.0 | 19.94 | | 32.4 | 62.2 | -29.8 |
| | | 30 | | 19.56 | | 32.1 | 62.2 | -30.1 |
| | | 60 | | 19.36 | | 31.9 | 62.2 | -30.3 |
| | | 15 | 2682.5 | 19.26 | | 31.8 | 62.2 | -30.4 |
| | | 30 | | 19.30 | | 31.8 | 62.2 | -30.4 |
| | | 60 | | 19.41 | | 31.9 | 62.2 | -30.3 |
| | 20 | 15 | 2506.0 | 19.63 | | 32.1 | 62.2 | -30.1 |
| | | 30 | | 19.68 | | 32.2 | 62.2 | -30.0 |
| | | 60 | | 19.82 | | 32.3 | 62.2 | -29.9 |
| | | 15 | 2593.0 | 19.18 | | 31.7 | 62.2 | -30.5 |
| | | 30 | | 19.22 | | 31.7 | 62.2 | -30.5 |
| | | 60 | | 19.55 | | 32.1 | 62.2 | -30.2 |
| | | 15 | 2680.0 | 19.26 | | 31.8 | 62.2 | -30.4 |
| | | 30 | | 19.45 | | 32.0 | 62.2 | -30.3 |
| | | 60 | | 19.46 | | 32.0 | 62.2 | -30.2 |

**Table 5 RF Power Output 256QAM**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading | Antenna Gain | EIRP | Limit | Margin |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 256QAM | 40 | 15 | 2516.0 | 19.84 | 12.5 | 32.3 | 62.2 | -29.9 |
| | | 30 | | 19.79 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.73 | | 32.2 | 62.2 | -30.0 |
| | | 15 | 2593.0 | 19.47 | | 32.0 | 62.2 | -30.2 |
| | | 30 | | 19.77 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.06 | | 31.6 | 62.2 | -30.6 |
| | | 15 | 2670.0 | 19.60 | | 32.1 | 62.2 | -30.1 |
| | | 30 | | 19.51 | | 32.0 | 62.2 | -30.2 |
| | | 60 | | 19.70 | | 32.2 | 62.2 | -30.0 |
| | 60 | 30 | 2526.0 | 19.20 | | 31.7 | 62.2 | -30.5 |
| | | 60 | | 19.40 | | 31.9 | 62.2 | -30.3 |
| | | 30 | 2593.0 | 19.77 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.06 | | 31.6 | 62.2 | -30.6 |
| | | 30 | 2660.0 | 19.82 | | 32.3 | 62.2 | -29.9 |
| | | 60 | | 19.83 | | 32.3 | 62.2 | -29.9 |

**Table 6 RF Power Output 256QAM**

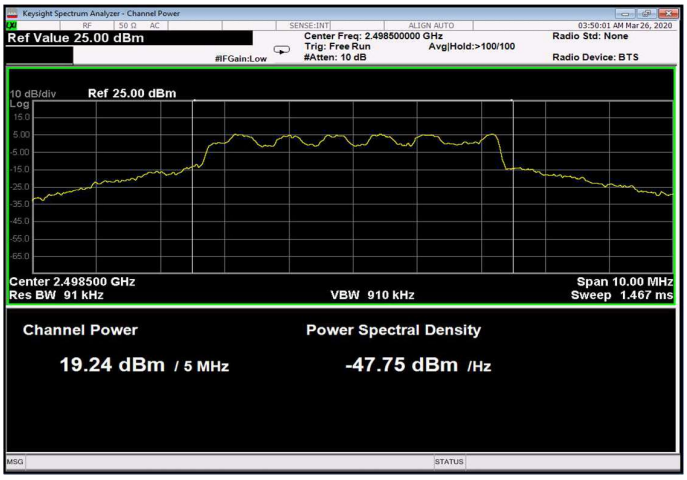


Figure 9: 16QAM 5MHz B.W.; 2498.5MHz, 15kHz

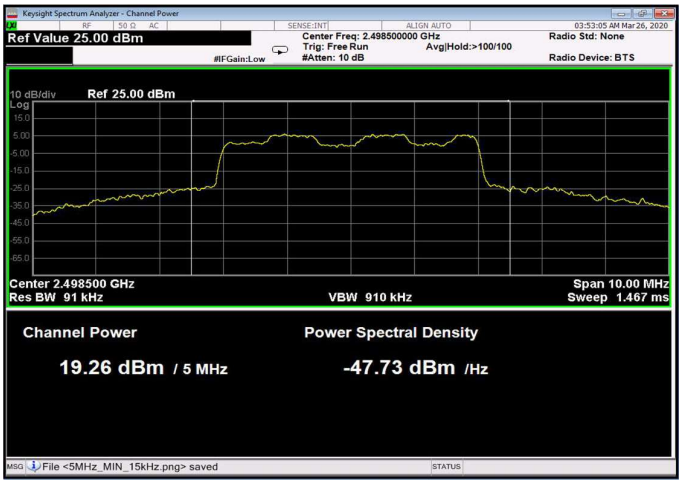


Figure 10: 16QAM 5MHz B.W.; 2498.5MHz, 30kHz

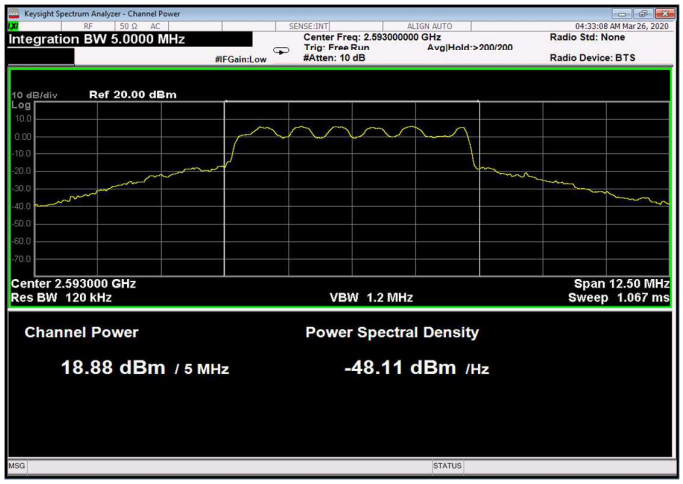


Figure 11: 16QAM 5MHz B.W.; 2593.0MHz, 15kHz

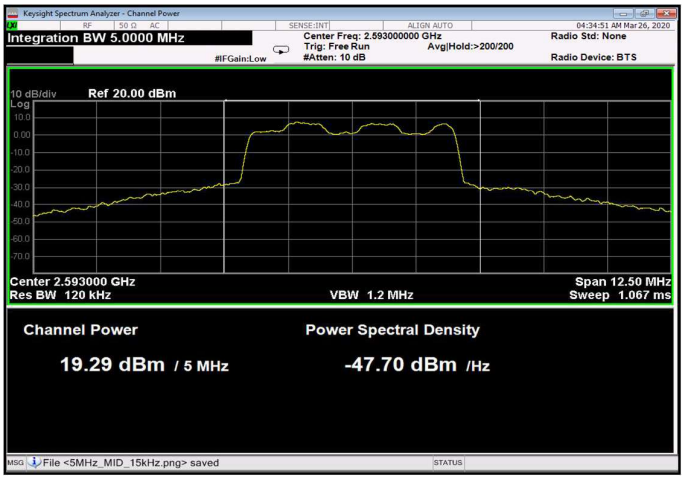


Figure 12: 16QAM 5MHz B.W.; 2593.0MHz, 30kHz

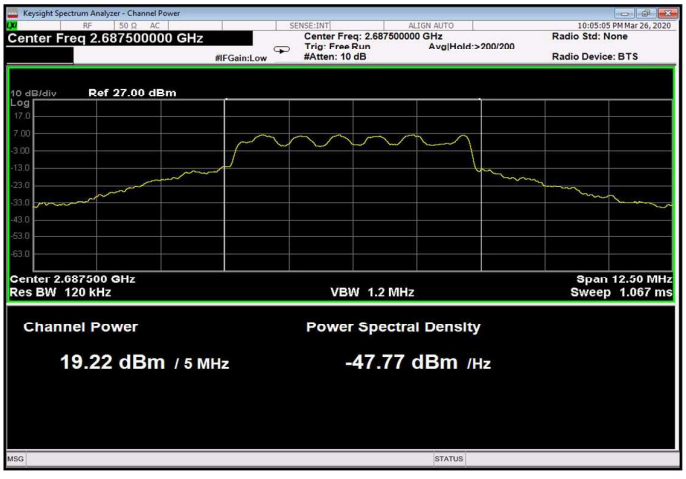


Figure 13: 16QAM 5MHz B.W.; 2687.5MHz, 15kHz

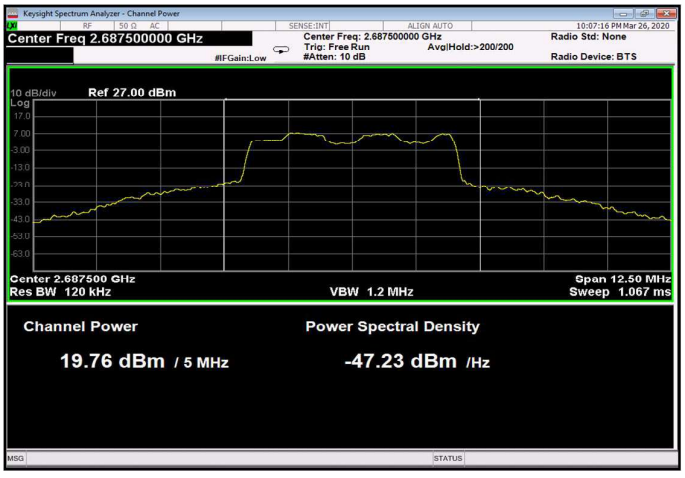


Figure 14: 16QAM 5MHzC.S; 2687.5MHz, 30kHz

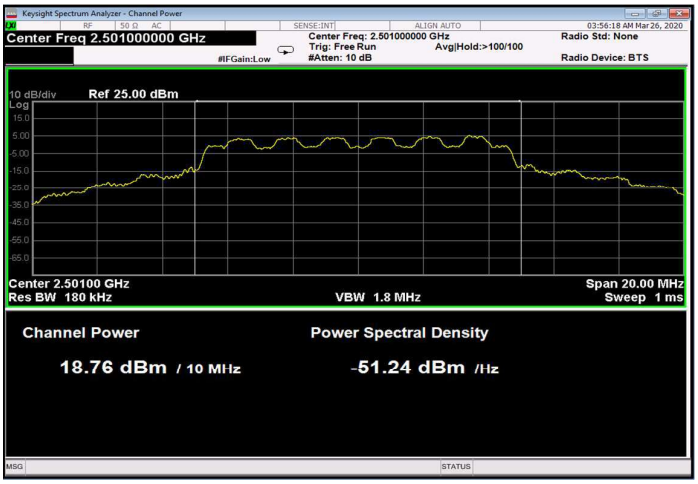


Figure 15: 16QAM 10MHz B.W.; 2501.0MHz, 15kHz

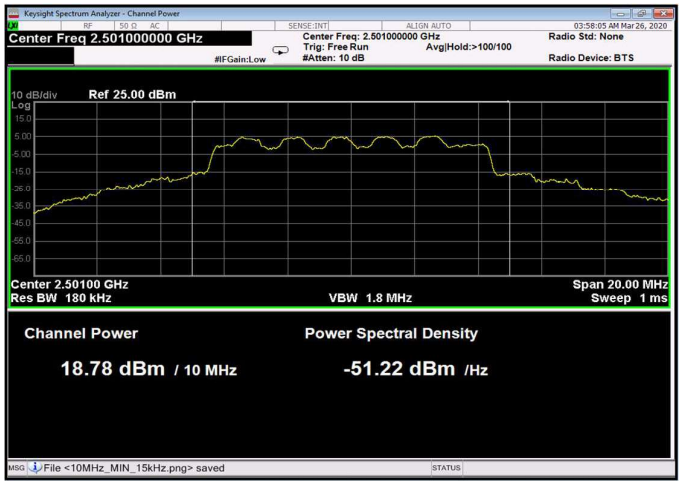


Figure 16: 16QAM 10MHz B.W.; 2501.0MHz, 30kHz

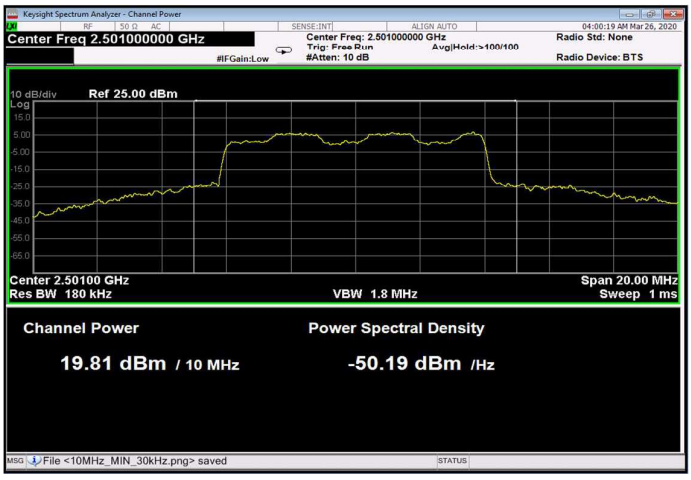


Figure 17: 16QAM 10MHz B.W.; 2501.0MHz, 60kHz

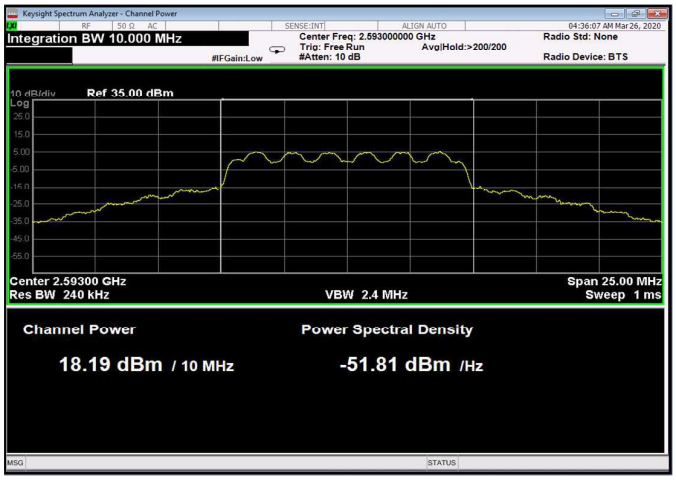


Figure 18: 16QAM 10MHz B.W.; 2593.0MHz, 15kHz

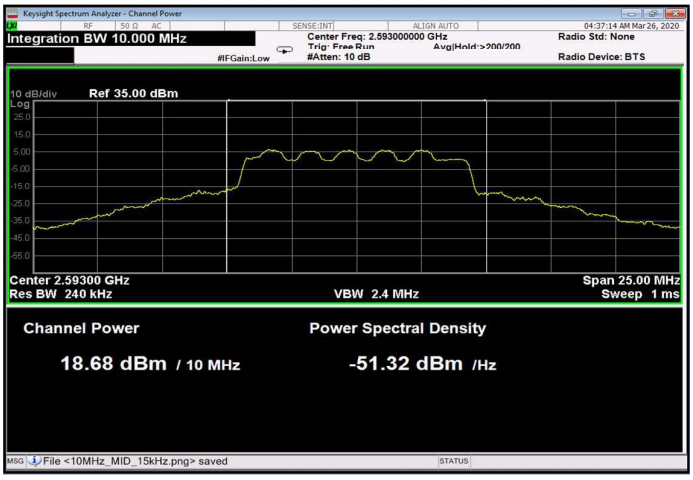


Figure 19: 16QAM 10MHz B.W.; 2593.0MHz, 30kHz

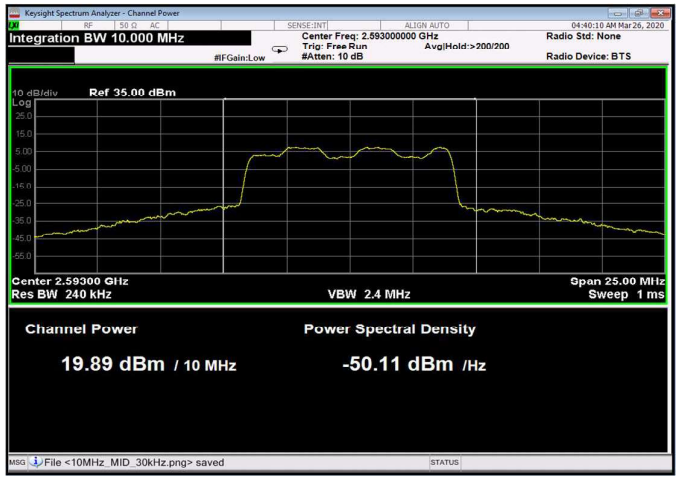


Figure 20: 16QAM 10MHz B.W.; 2593.0MHz, 60kHz

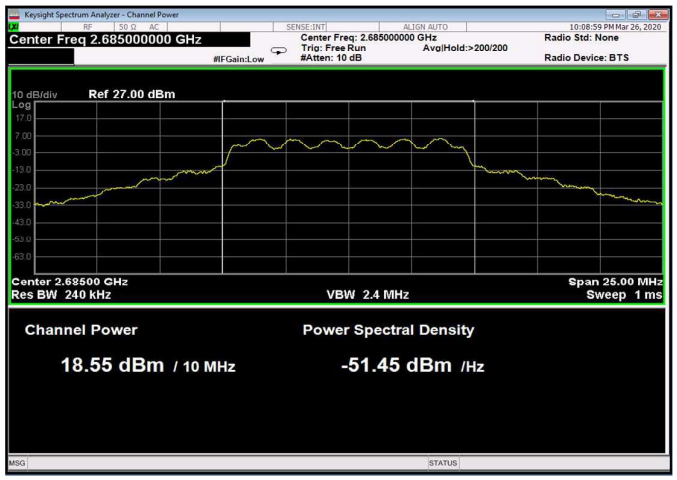


Figure 21: 16QAM 10MHz B.W.; 2685.0MHz, 15kHz


Figure 22: 16QAM 10MHz C.S; 2685.0MHz, 30kHz

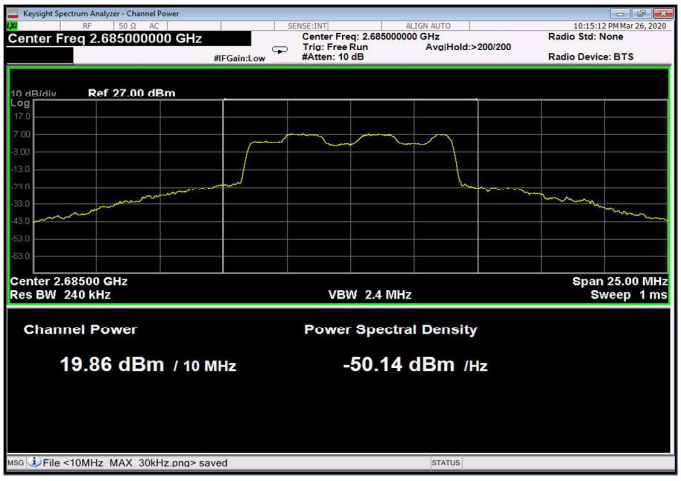


Figure 23: 16QAM 10MHz B.W.; 2685.0MHz, 60kHz

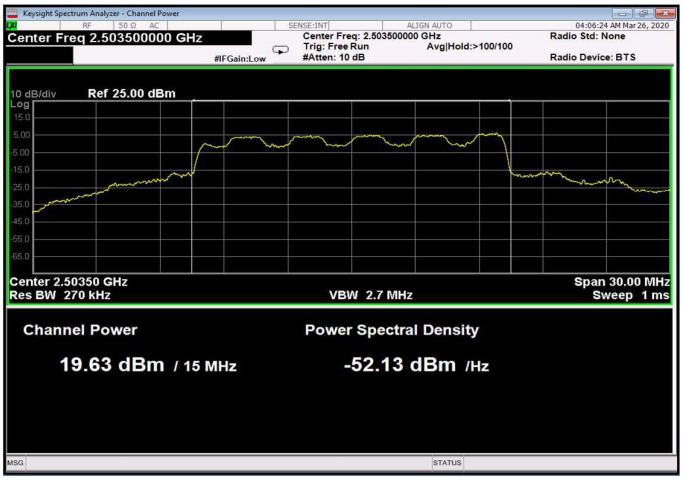


Figure 24: 16QAM 15MHz B.W.; 2503.5MHz, 15kHz

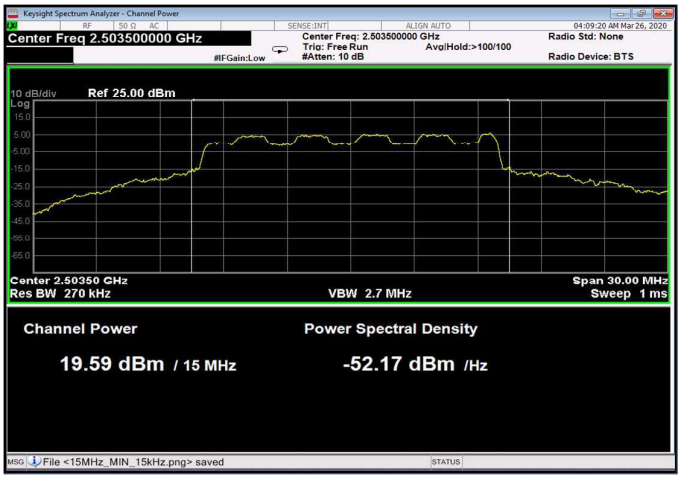


Figure 25: 16QAM 15MHz B.W.; 2503.5MHz, 30kHz

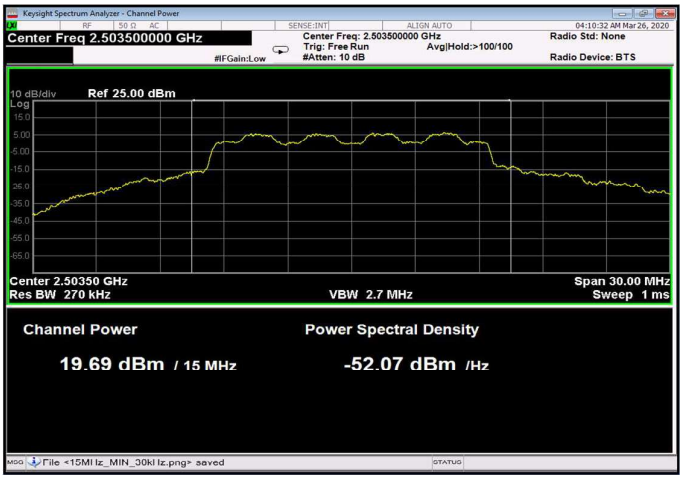


Figure 26: 16QAM 15MHz C.S; 2503.5MHz, 60kHz

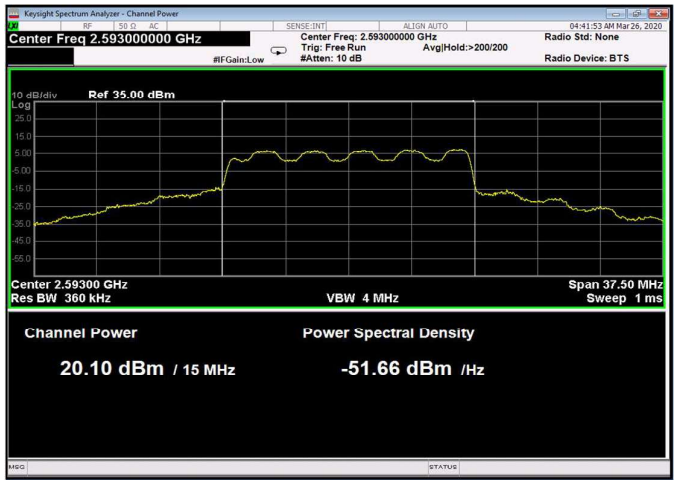


Figure 27: 16QAM 15MHz B.W.; 2593.0MHz, 15kHz

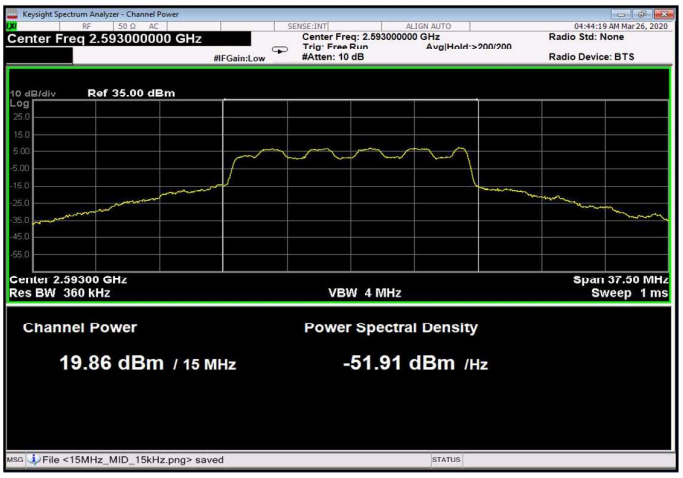


Figure 28: 16QAM 15MHz B.W.; 2593.0MHz, 30 kHz

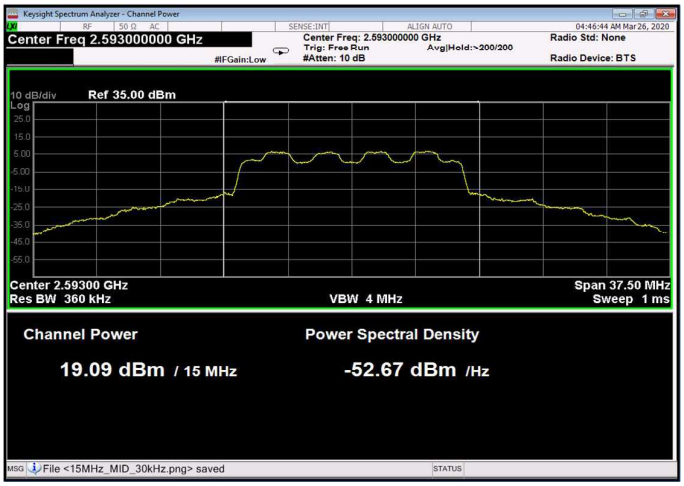


Figure 29: 16QAM 15MHz B.W.; 2593.0MHz, 60kHz

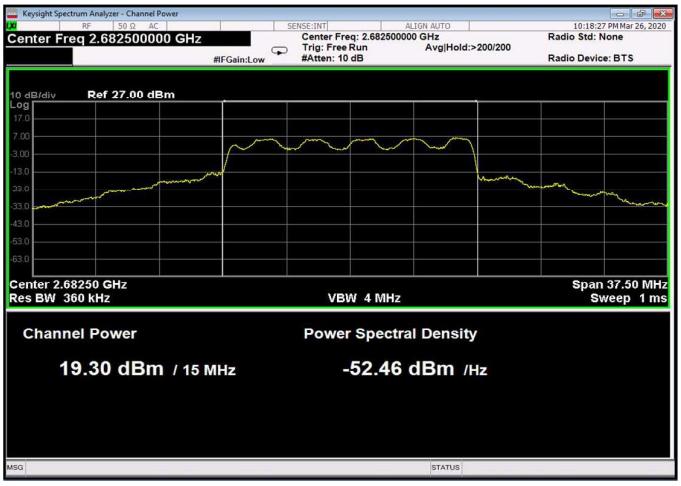


Figure 30: 16QAM 15MHz B.W.; 2682.5MHz, 15kHz

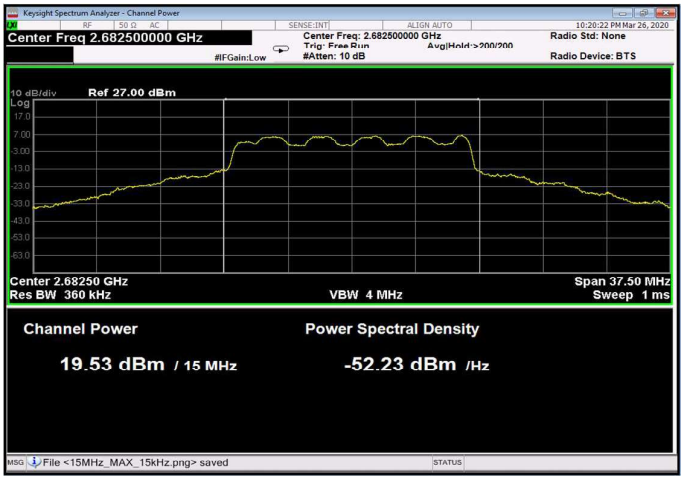


Figure 31: 16QAM 15MHz B.W.; 2682.5MHz, 30kHz

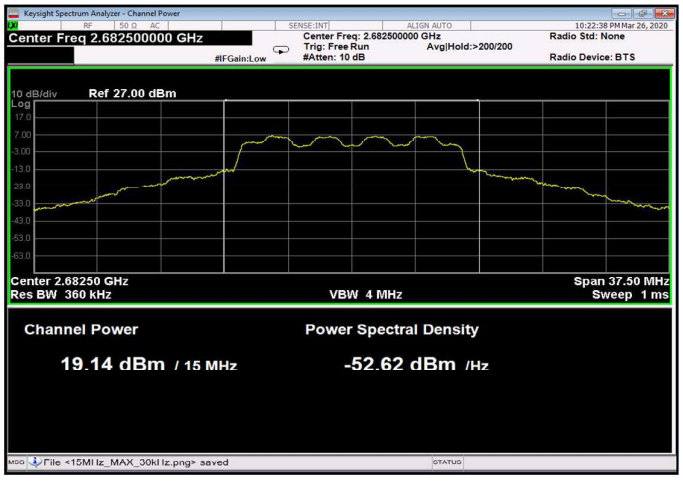


Figure 32: 16QAM 15MHz B.W.; 2682.5MHz, 60kHz

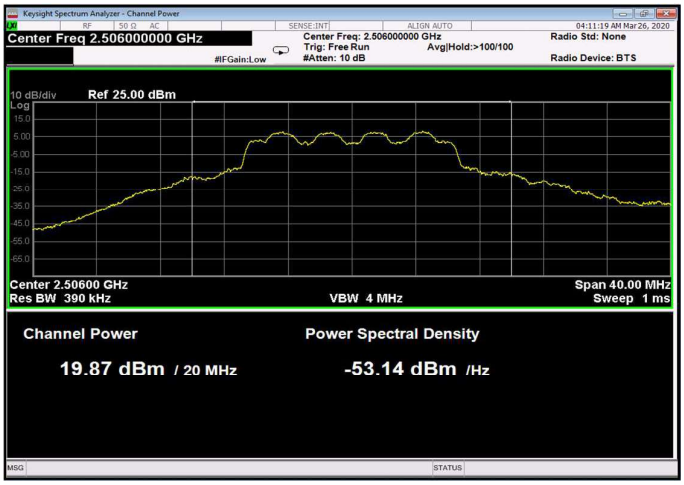


Figure 33: 16QAM 20MHz B.W.; 2506.0MHz, 15 kHz

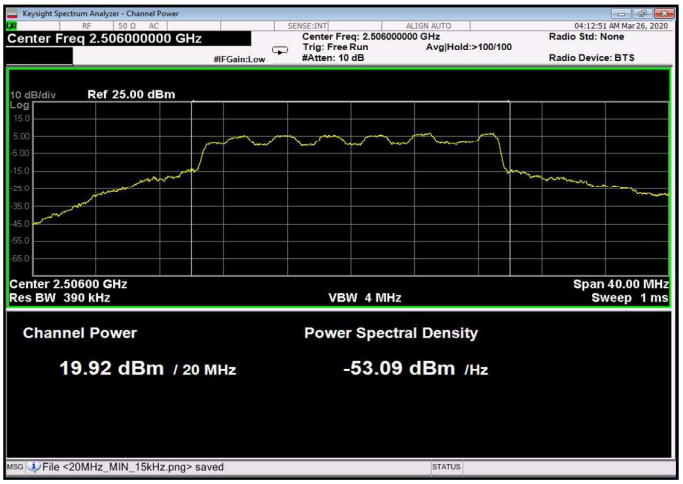


Figure 34: 16QAM 20MHz B.W.; 2506.0MHz, 30kHz

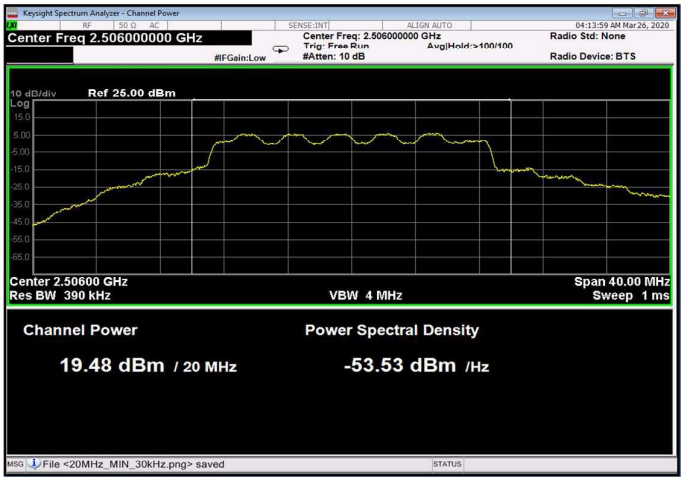


Figure 35: 16QAM 20MHz B.W.; 2506.0MHz, 60kHz

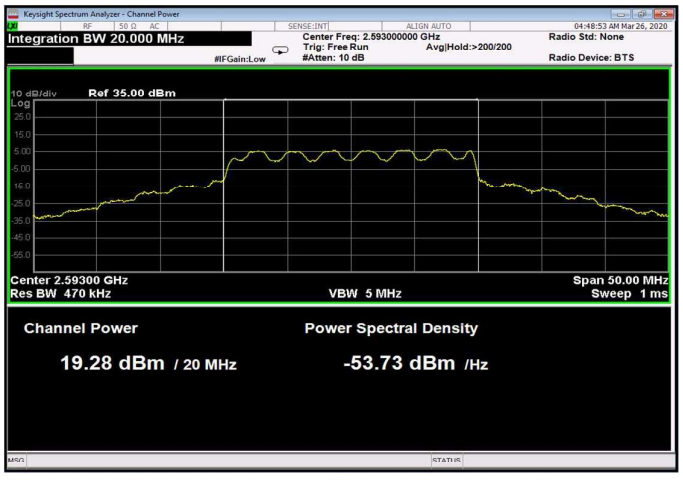


Figure 36: 16QAM 20MHz B.W.; 2593.0MHz, 15kHz

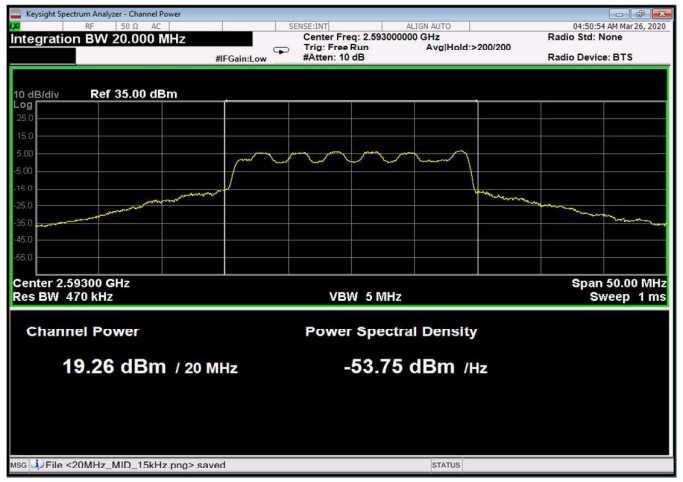


Figure 37: 16QAM 20MHzB.W.; 2593.0MHz, 30kHz

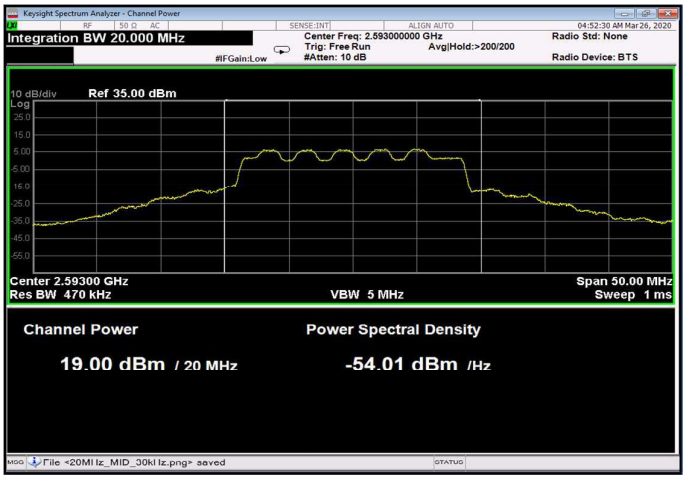


Figure 38: 16QAM 20MHz B.W.; 2593.0MHz, 60kHz

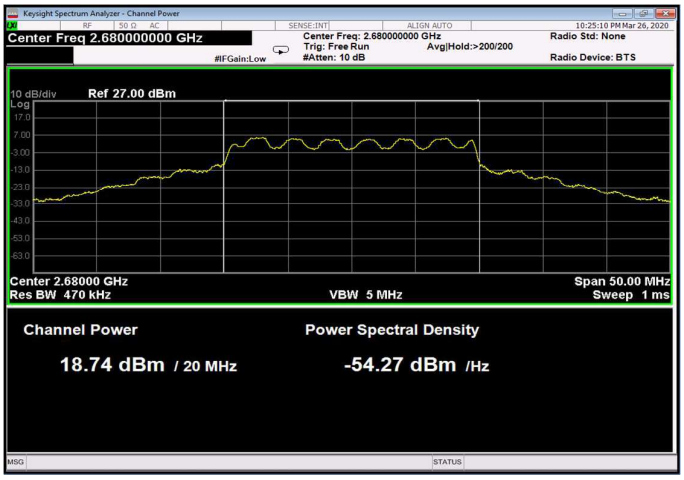


Figure 39: 16QAM 20MHz B.W.; 2680.0MHz, 15kHz

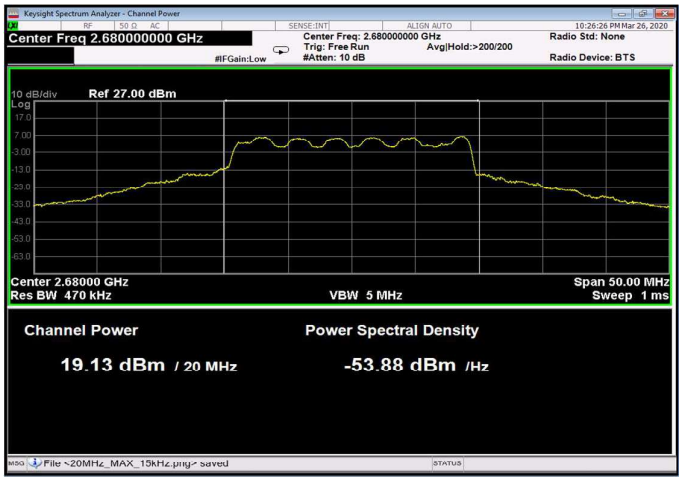


Figure 40: 16QAM 20MHz B.W.; 2680.0MHz, 30kHz


Figure 41: 16QAM 20MHz B.W.; 2680.0MHz, 60kHz

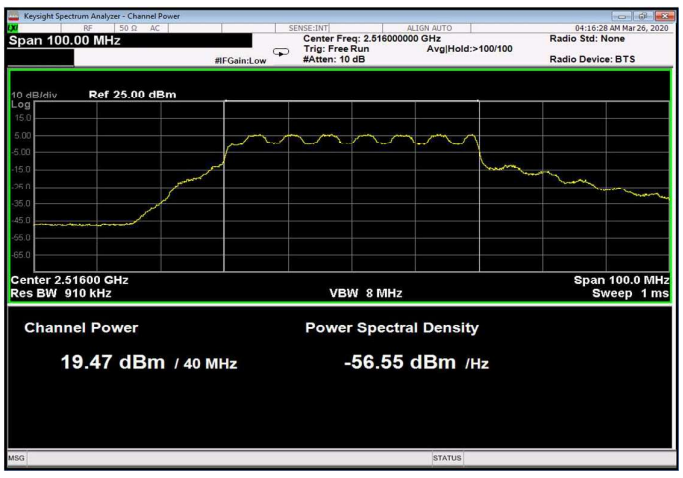


Figure 42: 16QAM 40MHz B.W.; 2516.0MHz, 15kHz

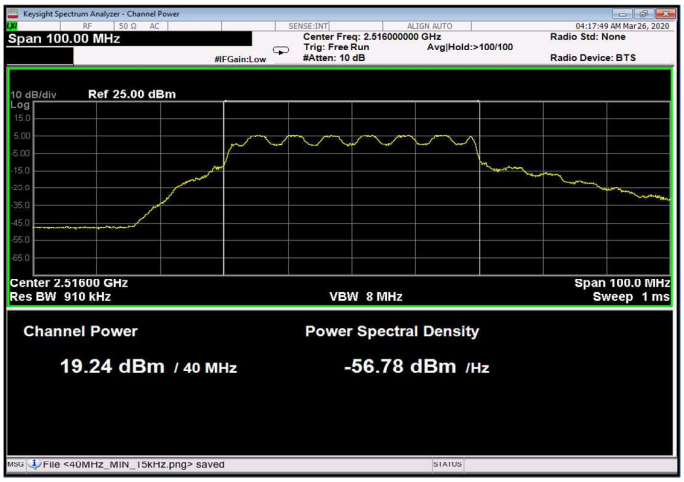


Figure 43: 16QAM 40MHz B.W.; 2516.0MHz, 30kHz

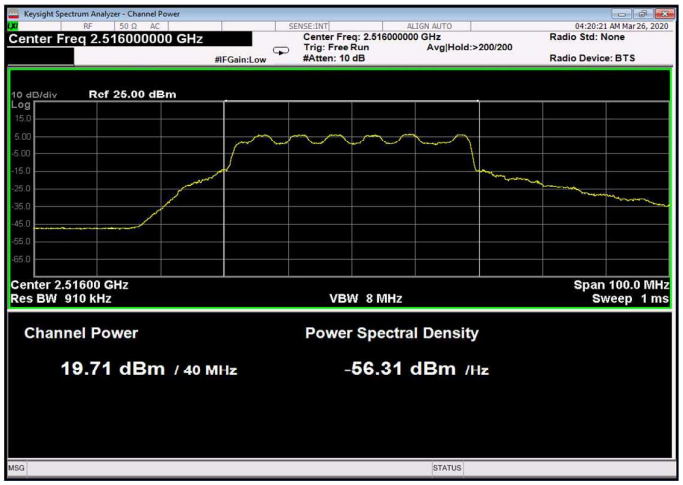


Figure 44: 16QAM 40MHz B.W.; 2516.0MHz, 60kHz