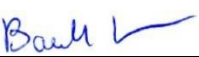


|                      |               |
|----------------------|---------------|
| Report Reference ID: | 364520-1TRFWL |
|----------------------|---------------|

|                     |                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test specification: | <b>Title 47 – Telecommunication</b><br>Chapter I – Federal Communications Commission<br>Subchapter A – General<br>Part 24 – Personal Communication Services<br>Subpart E – Broadband PCS |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
| Applicant: | TEKO Telecom Srl.<br>Via Meucci, 24/a<br>I-40024 Castel S. Pietro Terme (BO) (Italy) |
| Apparatus: | Cell hub Mid-power Radio Remote Unit                                                 |
| Model:     | XR19AX35WM2/48Y                                                                      |
| FCC ID:    | XM2-X19AX35M2                                                                        |

|                     |                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Testing laboratory: | <b>Nemko Italy Spa</b><br>Via del Carroccio, 4<br>20853 Biassono (MB) – Italy<br>Telephone: +39 039 2201201<br>Facsimile: +39 039 2201221 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

|              | Name and title                                                                                                                | Date       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|------------|
| Tested by:   | <br>P. Barbieri, Wireless/EMC Specialist   | 05/14/2019 |
| Reviewed by: | <br>R. Giampaglia, Wireless/EMC Specialist | 05/14/2019 |

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## Table of contents

|                                                                           |           |
|---------------------------------------------------------------------------|-----------|
| <b>Section 1: Report summary .....</b>                                    | <b>4</b>  |
| 1.1 Test specification.....                                               | 4         |
| 1.2 Statement of compliance .....                                         | 4         |
| 1.3 Exclusions .....                                                      | 4         |
| 1.4 Registration number .....                                             | 4         |
| 1.5 Test report revision history .....                                    | 4         |
| 1.6 Limits of responsibility .....                                        | 4         |
| <b>Section 2: Summary of test results .....</b>                           | <b>5</b>  |
| 2.1 FCC Part 24, test results .....                                       | 5         |
| <b>Section 3: Equipment under test (EUT) and application details.....</b> | <b>6</b>  |
| 3.1 Applicant details .....                                               | 6         |
| 3.2 Modular equipment.....                                                | 6         |
| 3.3 Product details .....                                                 | 6         |
| 3.4 Application purpose.....                                              | 6         |
| 3.5 Composite/related equipment.....                                      | 7         |
| 3.6 Sample information .....                                              | 7         |
| 3.7 EUT technical specifications.....                                     | 7         |
| 3.8 Accessories and support equipment.....                                | 8         |
| 3.9 Operation of the EUT during testing .....                             | 9         |
| 3.10 EUT setup diagram .....                                              | 9         |
| <b>Section 4: Engineering considerations.....</b>                         | <b>10</b> |
| 4.1 Modifications incorporated in the EUT .....                           | 10        |
| 4.2 Deviations from laboratory tests procedures.....                      | 10        |
| 4.3 Technical judgment .....                                              | 10        |
| <b>Section 5: Test conditions .....</b>                                   | <b>11</b> |
| 5.1 Deviations from laboratory tests procedures.....                      | 11        |
| 5.2 Test conditions, power source and ambient temperatures.....           | 11        |
| 5.3 Measurement uncertainty .....                                         | 12        |
| 5.4 Test equipment .....                                                  | 13        |
| <b>Appendix A: Test results .....</b>                                     | <b>14</b> |
| Clause 24.238(b) Occupied bandwidth .....                                 | 14        |
| Clause 24.232(a) Peak output power at RF antenna connector .....          | 39        |
| Clause 24.238(a)(b) Spurious emissions at RF antenna connector .....      | 80        |
| Clause 24.238(a)(b) Radiated Spurious emissions .....                     | 146       |
| Clause 24.235 Frequency stability .....                                   | 292       |

|                                                  |     |
|--------------------------------------------------|-----|
| Appendix B: Block diagrams of test set-ups ..... | 311 |
| Appendix C: EUT Photos .....                     | 312 |

## Section 1: Report summary

### 1.1 Test specification

|                       |                                         |
|-----------------------|-----------------------------------------|
| <b>Specifications</b> | <b>Part 24 Subpart E, Broadband PCS</b> |
|-----------------------|-----------------------------------------|

### 1.2 Statement of compliance

|                   |                                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compliance</b> | <p>In the configuration tested the EUT was found compliant</p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Test method: ANSI C63.26-2015, 662911 D01 Multiple Transmitter Output v02r01, 662911 D02 MIMO with Cross-Polarized Antennas v01</p> |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 1.3 Exclusions

|                   |      |
|-------------------|------|
| <b>Exclusions</b> | None |
|-------------------|------|

### 1.4 Registration number

|                                |        |
|--------------------------------|--------|
| <b>Test site FCC ID number</b> | 682159 |
|--------------------------------|--------|

### 1.5 Test report revision history

| Revision # | Details of changes made to test report |
|------------|----------------------------------------|
| TRF        | Original report issued                 |
| R1TRF      | ----                                   |

### 1.6 Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

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## Section 2: Summary of test results

### 2.1 FCC Part 24, test results

| Part          | Methods | Test description                                 | Verdict |
|---------------|---------|--------------------------------------------------|---------|
| §24.238(b)    | 2.1049  | Occupied bandwidth                               | Pass    |
| §24.232       | 2.1046  | Peak output power at RF antenna connector (EIRP) | Pass    |
| §24.232(d)    | 2.1046  | Peak output power at RF antenna connector (PAPR) | Pass    |
| §24.238(a)(b) | 2.1051  | Conducted spurious emissions                     | Pass    |
| §24.238(a)(b) | 2.1053  | Radiated spurious emissions                      | Pass    |
| §24.235       | 2.1055  | Frequency stability                              | Pass    |

Notes:

## Section 3: Equipment under test (EUT) and application details

### 3.1 Applicant details

|                                         |                                    |                        |
|-----------------------------------------|------------------------------------|------------------------|
| <b>Applicant complete business name</b> | Name:                              | Teko Telecom Srl       |
|                                         | Federal Registration Number (FRN): | 0018963462             |
|                                         | Grantee code                       | XM2                    |
| <b>Mailing address</b>                  | Address:                           | Via Meucci, 24/a       |
|                                         | City:                              | Castel S. Pietro Terme |
|                                         | Province/State:                    | Bologna                |
|                                         | Post code:                         | 40024                  |
|                                         | Country:                           | Italy                  |

### 3.2 Modular equipment

|                                           |                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>a) Single modular approval</b>         | Single modular approval<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>         |
| <b>b) Limited single modular approval</b> | Limited single modular approval<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

### 3.3 Product details

|                                                 |                    |                 |
|-------------------------------------------------|--------------------|-----------------|
| <b>FCC ID</b>                                   | Grantee code:      | XM2             |
|                                                 | Product code:      | -X19AX35M2      |
| <b>Equipment class</b>                          | PCB                |                 |
| <b>Description of product as it is marketed</b> | Base Station       |                 |
|                                                 | Model name/number: | XR19AX35WM2/48Y |
|                                                 | Serial number:     | 1012991001      |

### 3.4 Application purpose

|                            |                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Type of application</b> | <input checked="" type="checkbox"/> Original certification                                            |
|                            | <input type="checkbox"/> Change in identification of presently authorized equipment                   |
|                            | Original FCC ID: Grant date:                                                                          |
|                            | <input type="checkbox"/> Class II permissive change or modification of presently authorized equipment |

## Section 3: Equipment under test

### 3.5 Composite/related equipment

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>a) Composite equipment</b> | The EUT is a composite device subject to an additional equipment authorization<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                               |
| <b>b) Related equipment</b>   | The EUT is part of a system that operates with, or is marketed with, another device that requires an equipment authorization<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                 |
| <b>c) Related FCC ID</b>      | If either of the above is "yes":<br><input type="checkbox"/> has been granted under the FCC ID(s) listed below:<br><input checked="" type="checkbox"/> is in the process of being filled under the FCC ID(s) listed below:<br><input type="checkbox"/> is pending with the FCC ID(s) listed below:<br><input type="checkbox"/> has a mix of pending and granted statuses under the FCC ID(s) listed below:<br>i FCC ID: XM2-X19AX35M2<br>ii FCC ID: |

### 3.6 Sample information

|                                |            |
|--------------------------------|------------|
| <b>Receipt date:</b>           | 04/01/2019 |
| <b>Nemko sample ID number:</b> | -----      |

### 3.7 EUT technical specifications

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Operating band:</b>      | Down Link 1930-1995 MHz; Up Link 1850-1915 MHz                                            |
| <b>Operating frequency:</b> | Wideband                                                                                  |
| <b>Modulation type:</b>     | LTE (16QAM, 64QAM, 256QAM, QPSK)                                                          |
| <b>Occupied bandwidth:</b>  | LTE: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                        |
| <b>Channel spacing:</b>     | standard                                                                                  |
| <b>Emission designator:</b> | LTE: D7W                                                                                  |
| <b>RF Output</b>            | Down Link: 27dBm (0.5 W)                                                                  |
| <b>Antenna type:</b>        | External Antenna is not provided, equipment that has an external 50 $\Omega$ RF connector |
| <b>Power source:</b>        | 48 Vdc                                                                                    |

## Section 3: Equipment under test

### 3.8 Accessories and support equipment

The following information identifies accessories used to exercise the EUT during testing:

#### Item # 1

|                        |        |
|------------------------|--------|
| Type of equipment:     | Server |
| Brand name:            | Dell   |
| Model name or number:  | E38S   |
| Serial number:         | 066JJ5 |
| Nemko sample number:   | -----  |
| Connection port:       | -----  |
| Cable length and type: | -----  |

#### Item # 2

|                        |  |
|------------------------|--|
| Type of equipment:     |  |
| Brand name:            |  |
| Model name or number:  |  |
| Serial number:         |  |
| Nemko sample number:   |  |
| Connection port:       |  |
| Cable length and type: |  |

#### Item # 3

|                        |  |
|------------------------|--|
| Type of equipment:     |  |
| Brand name:            |  |
| Model name or number:  |  |
| Serial number:         |  |
| Nemko sample number:   |  |
| Connection port:       |  |
| Cable length and type: |  |

#### Item # 4

|                        |  |
|------------------------|--|
| Type of equipment:     |  |
| Brand name:            |  |
| Model name or number:  |  |
| Serial number:         |  |
| Nemko sample number:   |  |
| Connection port:       |  |
| Cable length and type: |  |



### 3.9 Operation of the EUT during testing

**Details:**

In down-link direction, normal working at max gain with max RF power output.

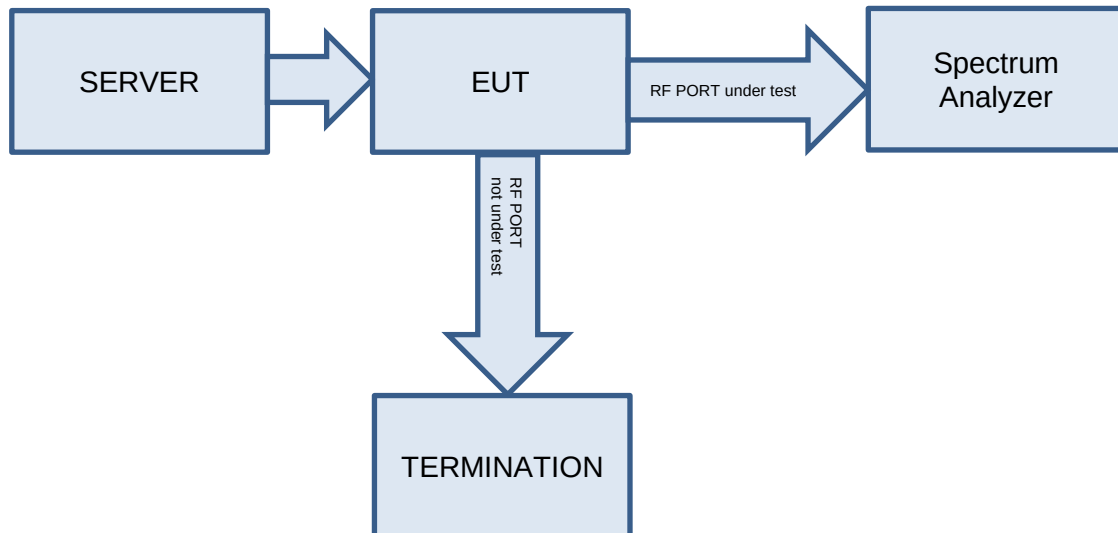
This report refer to measurement both RF port 1 and RF port 2.

When a RF port has been tested, the other one has been terminated on 50Ω load.

### 3.10 EUT setup diagram

In this system Cell Hub (Base Station) is the EUT.

The server generates wanted signals in base band frequency and Cell Hub convert the signal to RF band.

**Test setup :**

**Procedure**

Connect the server to the input of EUT by means of optical fiber, so the EUT can works at the maximum power.

Connect the spectrum analyzer to the RF output connector of the EUT.

## Section 4: Engineering considerations

### 4.1 Modifications incorporated in the EUT

**Modifications**

Modifications performed to the EUT during this assessment  
None ☒ Yes ☐, performed by Client ☐ or Nemko ☐  
Details:

### 4.2 Deviations from laboratory tests procedures

**Deviations**

Deviations from laboratory test procedures  
None ☒ Yes ☐ - details are listed below:

### 4.3 Technical judgment

**Judgment**

None

## Section 5: Test conditions

### 5.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

### 5.2 Test conditions, power source and ambient temperatures

|                                                               |                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normal temperature, humidity and air pressure test conditions | Temperature: 15–30 °C<br>Relative humidity: 20–75 %<br>Air pressure: 86–106 kPa<br><br>When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated. |
| Power supply range:                                           | The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5$ %, for which the equipment was designed.   |

## Section 5: Test conditions, continued

### 5.3 Measurement uncertainty

| EUT         | Type      | Test                                                                                    | Range and Setup features | Measurement Uncertainty | Notes |
|-------------|-----------|-----------------------------------------------------------------------------------------|--------------------------|-------------------------|-------|
| Transmitter | Conducted | Frequency error                                                                         | 0.001 MHz ÷ 40 GHz       | 0.08 ppm                | (1)   |
|             |           | Carrier power<br>RF Output Power                                                        | 10 kHz ÷ 30 MHz          | 1.0 dB                  | (1)   |
|             |           |                                                                                         | 30 MHz ÷ 18 GHz          | 1.5 dB                  | (1)   |
|             |           |                                                                                         | 18 MHz ÷ 40 GHz          | 3.0 dB                  | (1)   |
|             |           | Adjacent channel power                                                                  | 1 MHz ÷ 18 GHz           | 1.6 dB                  | (1)   |
|             |           | Conducted spurious emissions                                                            | 10 kHz ÷ 26 GHz          | 3.0 dB                  | (1)   |
|             |           |                                                                                         | 26 GHz ÷ 40 GHz          | 4.5 dB                  | (1)   |
|             |           | Intermodulation attenuation                                                             | 1 MHz ÷ 18 GHz           | 2.2 dB                  | (1)   |
|             |           | Attack time – frequency behaviour                                                       | 1 MHz ÷ 18 GHz           | 2.0 ms                  | (1)   |
|             |           | Attack time – power behaviour                                                           | 1 MHz ÷ 18 GHz           | 2.5 ms                  | (1)   |
|             |           | Release time – frequency behaviour                                                      | 1 MHz ÷ 18 GHz           | 2.0 ms                  | (1)   |
|             |           | Release time – power behaviour                                                          | 1 MHz ÷ 18 GHz           | 2.5 ms                  | (1)   |
|             |           | Transient behaviour of the transmitter– Transient frequency behaviour                   | 1 MHz ÷ 18 GHz           | 0.2 kHz                 | (1)   |
|             |           | Transient behaviour of the transmitter – Power level slope                              | 1 MHz ÷ 18 GHz           | 9%                      | (1)   |
|             |           | Frequency deviation - Maximum permissible frequency deviation                           | 0.001 MHz ÷ 18 GHz       | 1.3%                    | (1)   |
|             |           | Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz | 0.001 MHz ÷ 18 GHz       | 0.5 dB                  | (1)   |
|             |           | Dwell time                                                                              | -                        | 3%                      | (1)   |
|             |           | Hopping Frequency Separation                                                            | 0.01 MHz ÷ 18 GHz        | 1%                      | (1)   |
|             |           | Occupied Channel Bandwidth                                                              | 0.01 MHz ÷ 18 GHz        | 2%                      | (1)   |
|             |           | Modulation Bandwidth                                                                    | 0.01 MHz ÷ 18 GHz        | 2%                      | (1)   |
| Receiver    | Radiated  | Radiated spurious emissions                                                             | 10 kHz ÷ 26.5 GHz        | 6.0 dB                  | (1)   |
|             |           |                                                                                         | 26.5 GHz ÷ 40 GHz        | 8.0 dB                  | (1)   |
|             |           | Effective radiated power transmitter                                                    | 10 kHz ÷ 26.5 GHz        | 6.0 dB                  | (1)   |
|             |           |                                                                                         | 26,5 GHz ÷ 40 GHz        | 8.0 dB                  | (1)   |
|             | Conducted | Conducted spurious emissions                                                            | 10 kHz ÷ 26 GHz          | 3.0 dB                  | (1)   |
|             |           |                                                                                         | 26 GHz ÷ 40 GHz          | 4.5 dB                  | (1)   |

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k = 2$  which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %

## 5.4 Test equipment

| Equipment                              | Manufacturer | Model No.                 | Asset/Serial No. | Next cal. |
|----------------------------------------|--------------|---------------------------|------------------|-----------|
| Spectrum Analyzer                      | Agilent      | N9030A PXA                | MY53120882       | 12/2019   |
| Climatic Chambre                       | Angelantoni  | ACS-Hygros 600            | 7237             | 09/2020   |
| Trilog Broad Band Antenna 25-8000 MHz  | Schwarzbeck  | VULB 9162                 | VULB 9162-25     | 07/2021   |
| Antenna 1-18 GHz                       | Schwarzbeck  | STLP 9148                 | STPL 9148-123    | 07/2021   |
| Double ridge horn antenna (4 ÷ 40 GHz) | RFSpin       | DRH40                     | 061106A40        | 02/2020   |
| Broadband preamplifier (18 ÷ 40 GHz)   | Miteq        | JS44-18004000-35-8P-R     | 1.627            | 09/2019   |
| Broadband preamplifier 1-18 GHz        | Schwarzbeck  | BBV 9718                  | 9718-137         | 08/2019   |
| EMI receiver 20 Hz ÷ 8 GHz             | R&S          | ESU8                      | 100202           | 01/2020   |
| EMI receiver 2 Hz ÷ 44 GHz             | R&S          | ESW44                     | 101620           | 05/2019   |
| Hydraulic revolving platform           | Nemko        | RTPL 01                   | 4.233            | NCR       |
| Turning-table                          | R&S          | HCT                       | 835 803/03       | NCR       |
| Antenna mast                           | R&S          | HCM                       | 836 529/05       | NCR       |
| Controller                             | R&S          | HCC                       | 836 620/7        | NCR       |
| Semi-anechoic chamber                  | Nemko        | 10m semi-anechoic chamber | 530              | 09/2021   |
| Shielded room                          | Siemens      | 10m control room          | 1947             | NCR       |
| Semi-anechoic chamber                  | Nemko        | 10m semi-anechoic chamber | 70               | NCR       |
| Shielded Room                          | Siemens      | 3m semi-anechoic chamber  | 3                | NCR       |
| Motor controller                       | Emco         | 1051-25                   | 9012-1559        | NCR       |
| Motor controller                       | Emco         | 1061-1.521                | 9012-1508        | NCR       |
| Antenna Tower                          | Emco         | 2071-2                    | 9601-1940        | NCR       |
| Controller pole/table                  | Emco         | 2090                      | 9511-1099        | NCR       |

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use  
 (\*) Equipment supplied by manufacturer's

## Appendix A: Test results

### Clause 24.238(b) Occupied bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test date: [04/03/2019 to 05/10/2019](#)

Test results: [Pass](#)

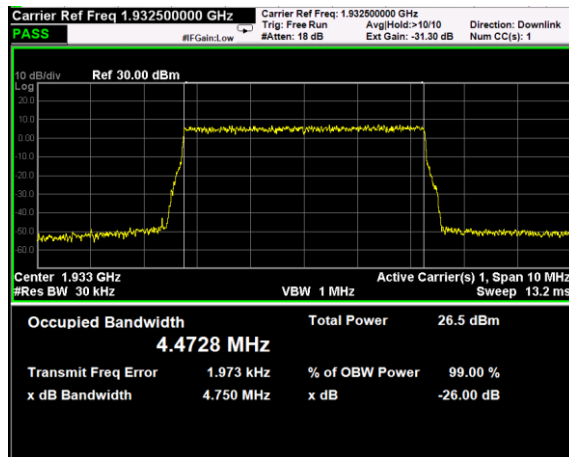
### Special notes

—

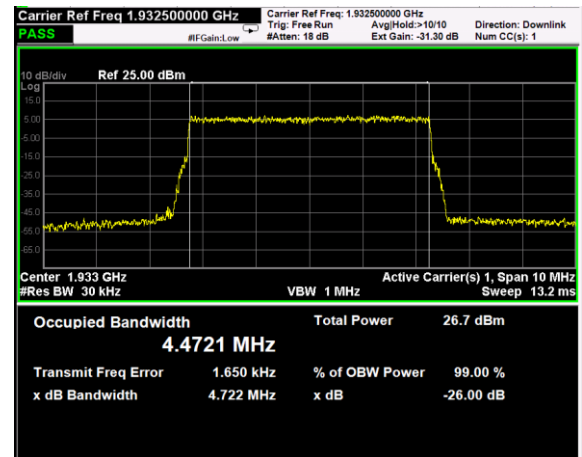
# Clause 24.238(b) Occupied bandwidth, continued

## RF PORT 1

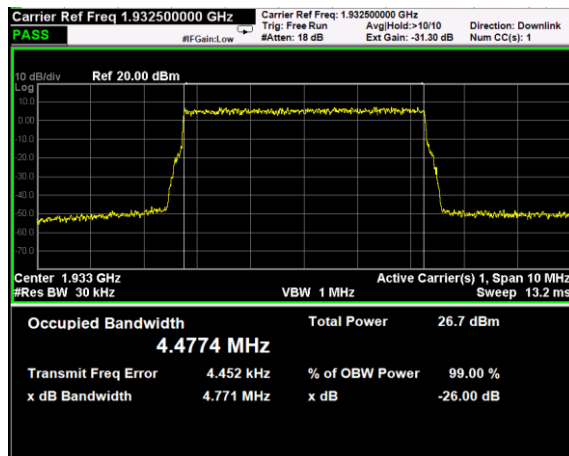
### Test data



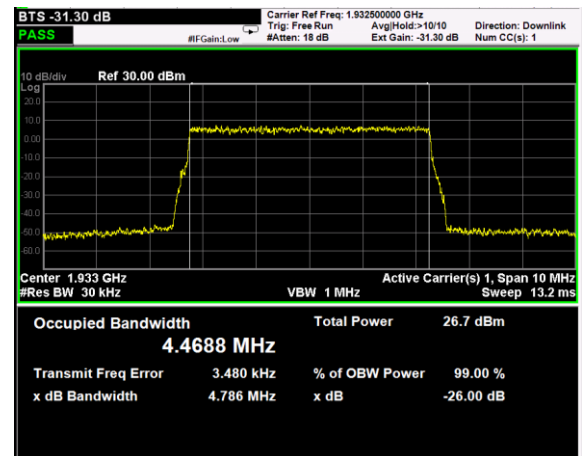
Channel: BOTTOM, Modulation: QPSK, BW=5MHz



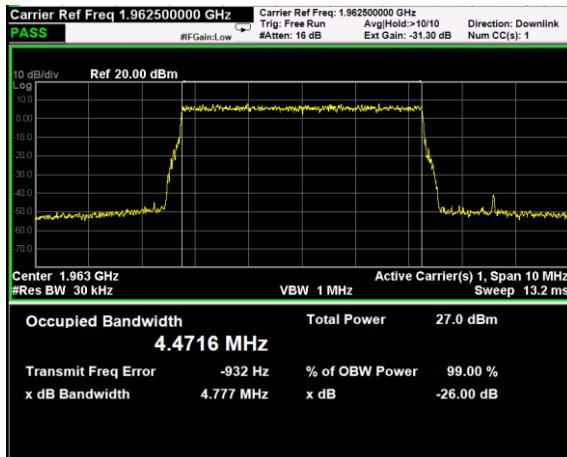
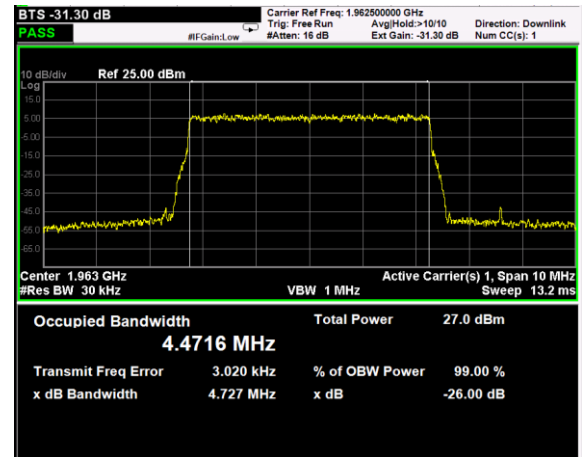
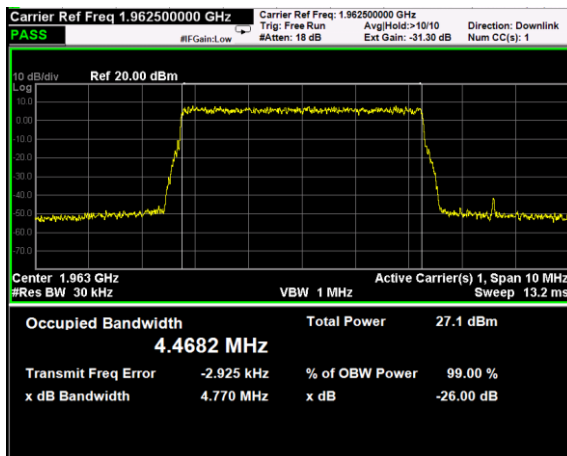
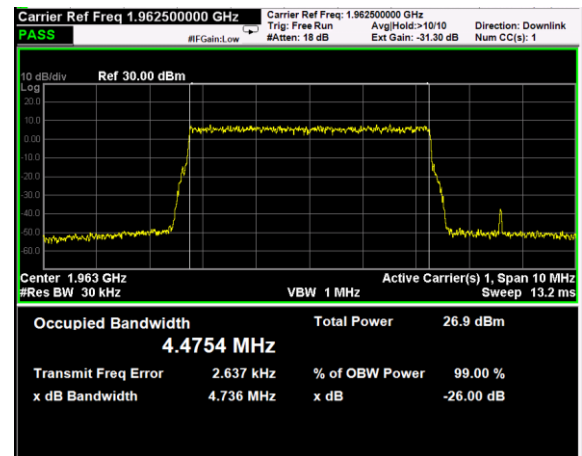
Channel: BOTTOM, Modulation: 16QAM, BW=5MHz



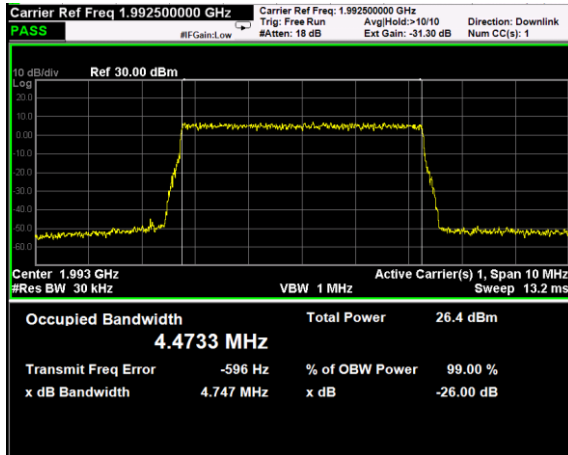
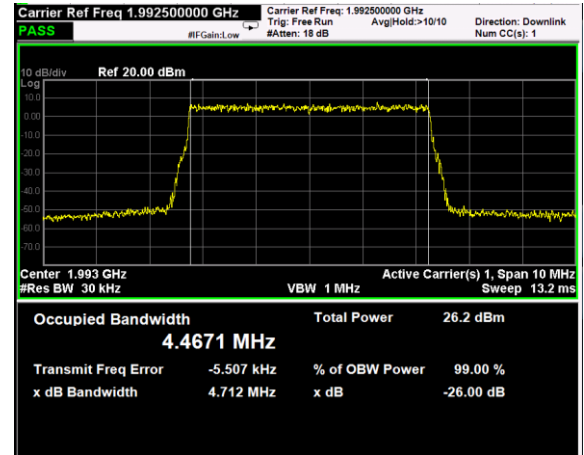
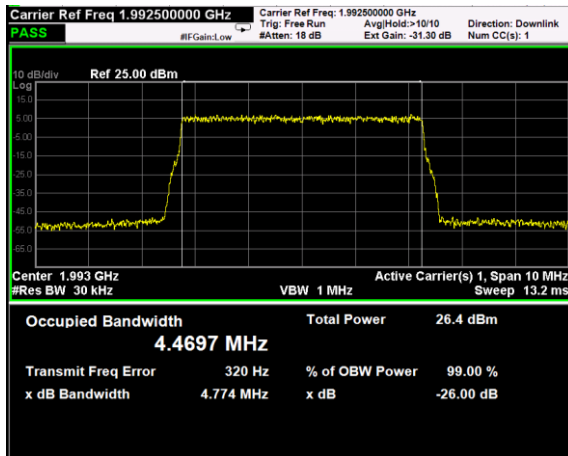
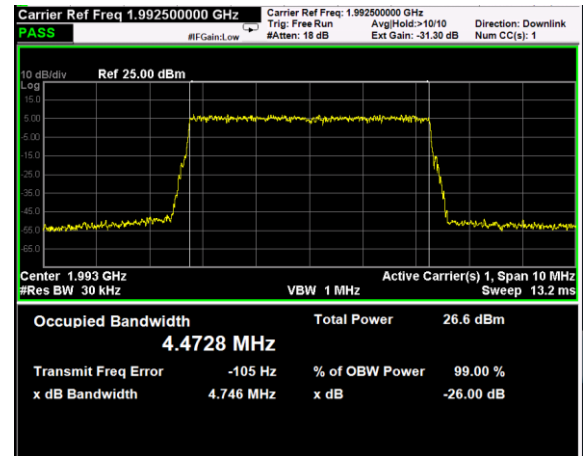
Channel: BOTTOM, Modulation: 64QAM, BW=5MHz

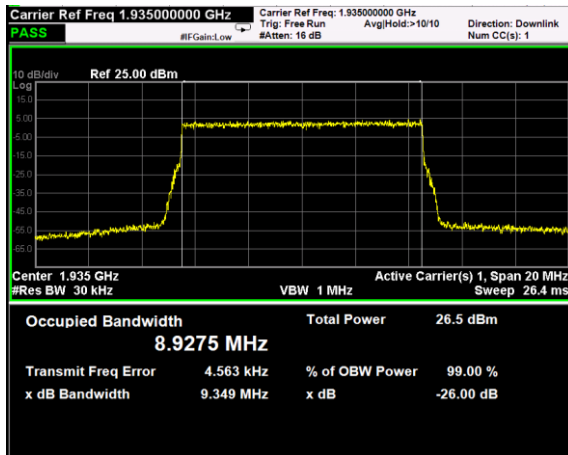
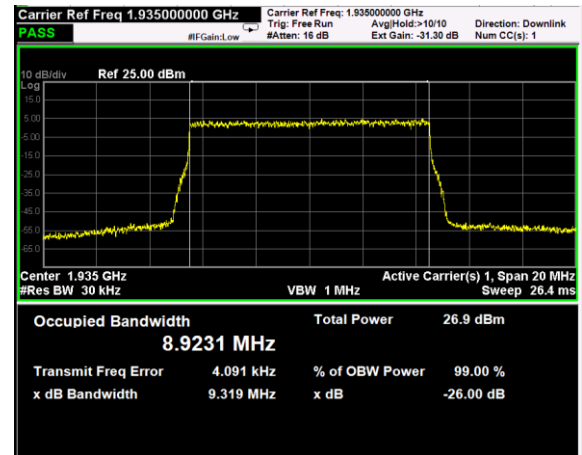
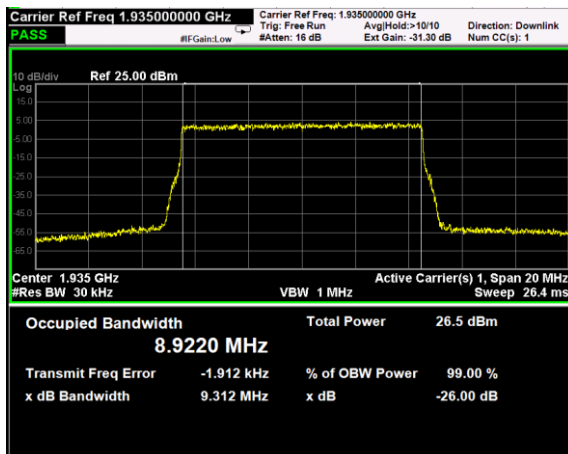
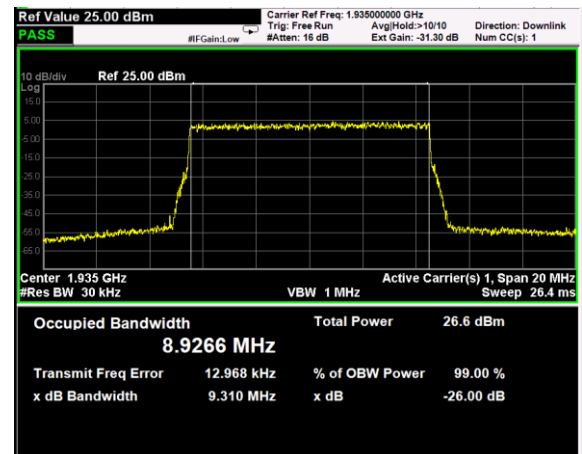


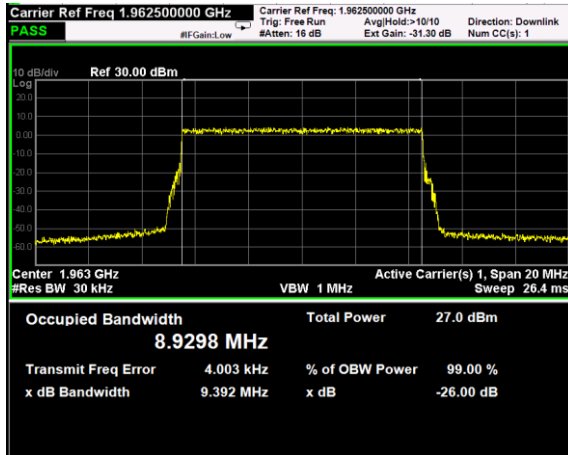
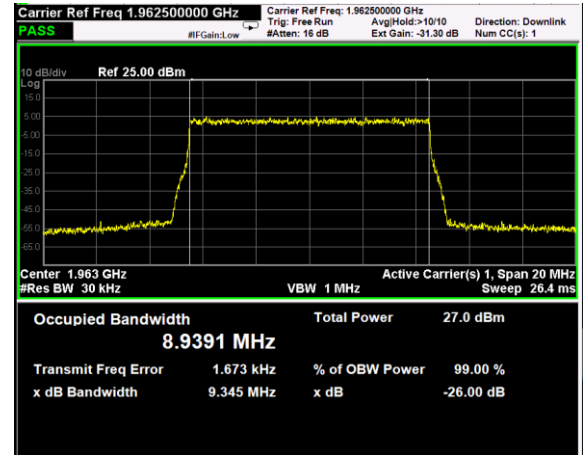
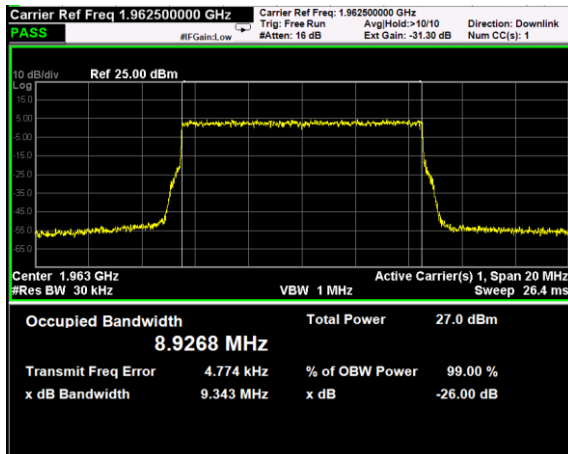
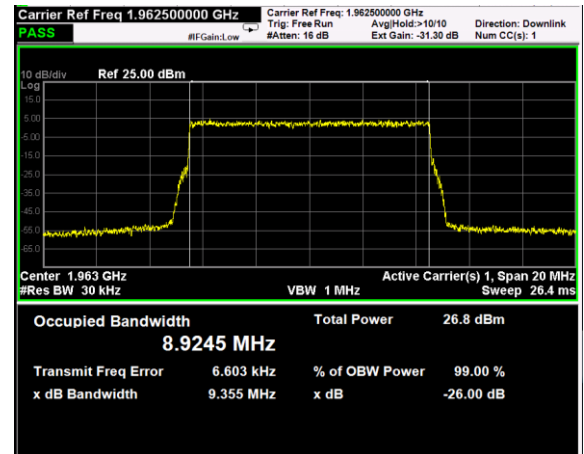
Channel: BOTTOM, Modulation: 256QAM, BW=5MHz

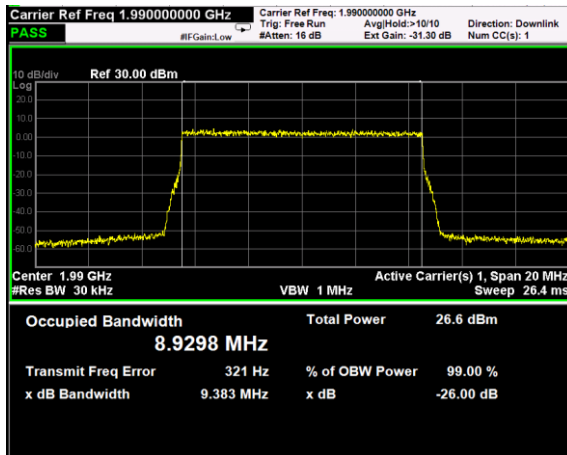
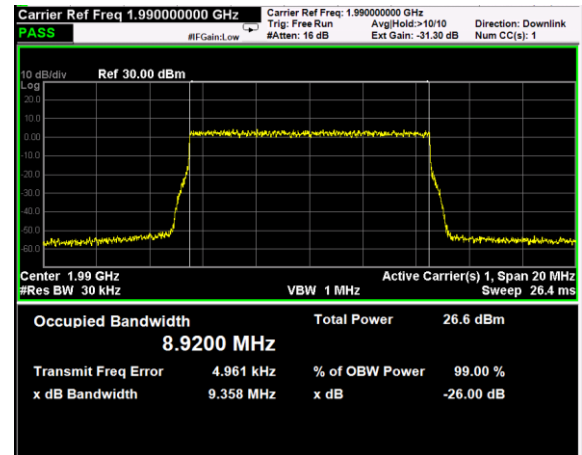
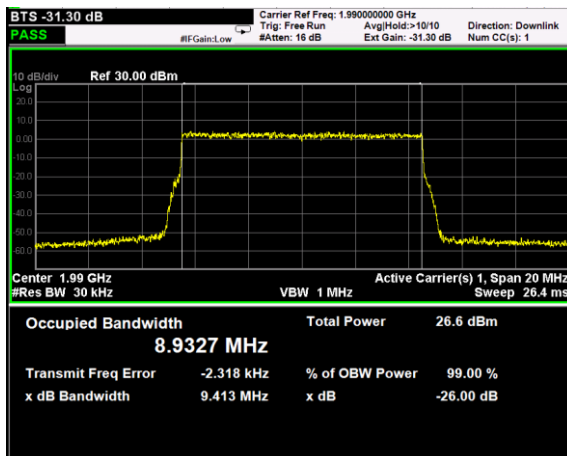
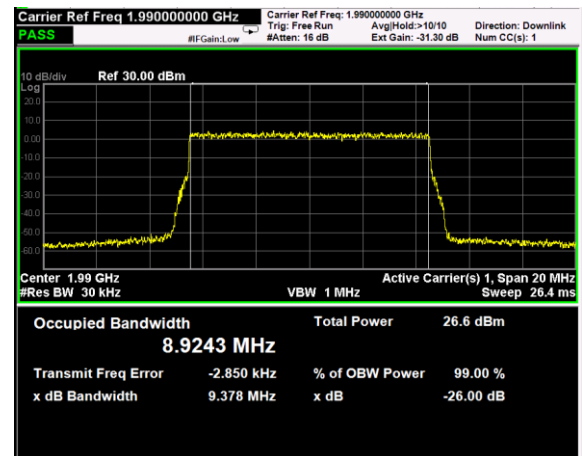

Channel: MIDDLE, Modulation: QPSK,  
 BW=5MHz

Channel: MIDDLE, Modulation: 16QAM,  
 BW=5MHz

Channel: MIDDLE, Modulation: 64QAM,  
 BW=5MHz

Channel: MIDDLE, Modulation: 256QAM,  
 BW=5MHz

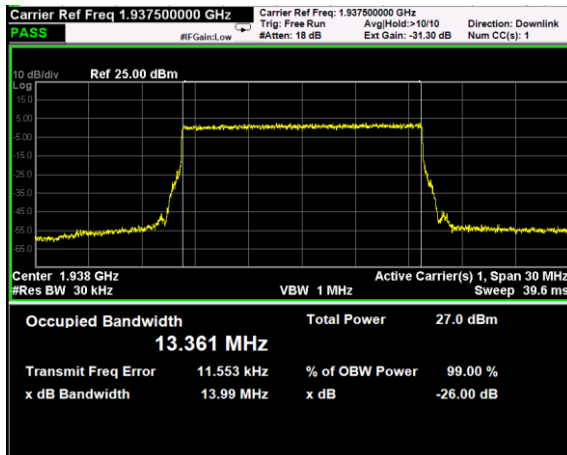
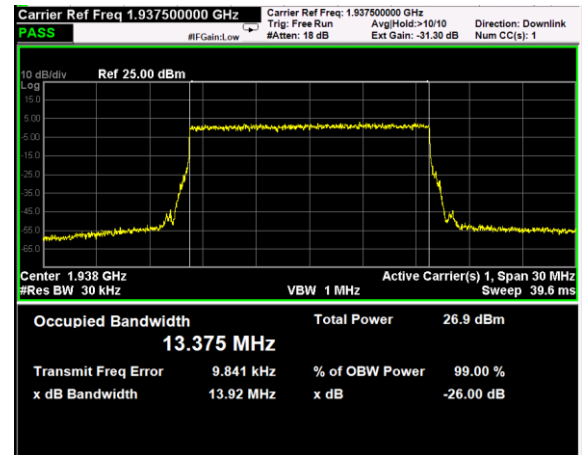
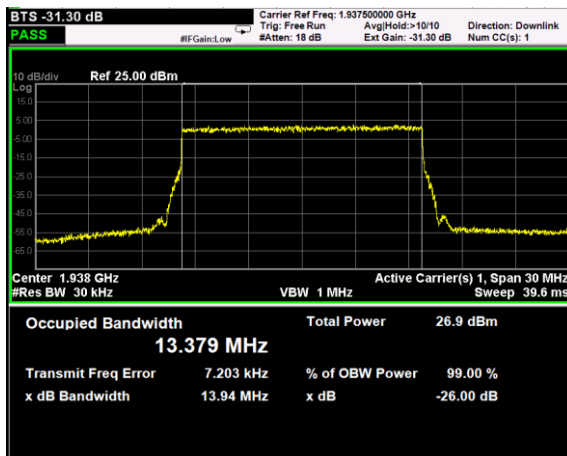
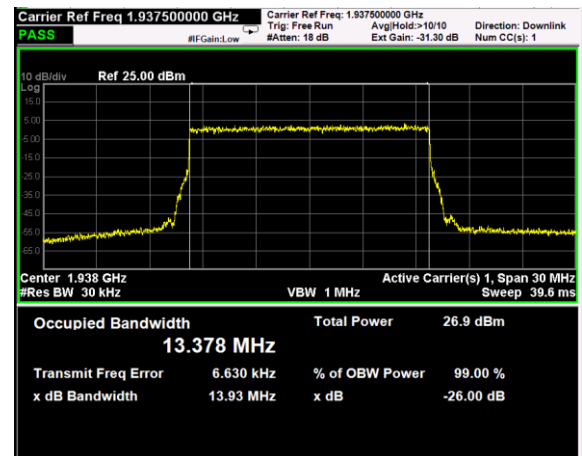


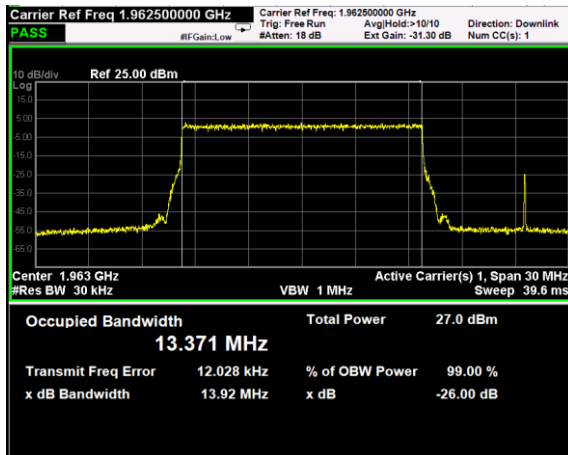
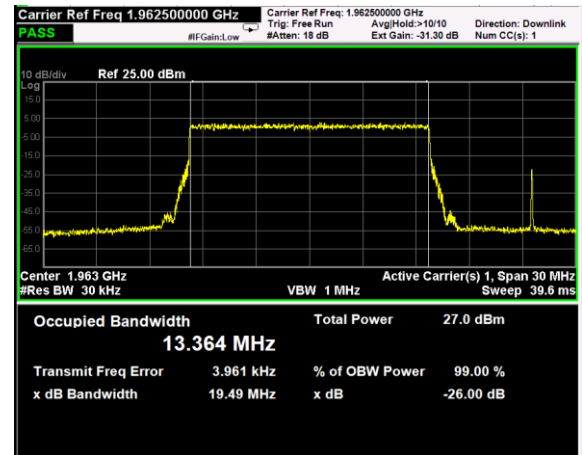
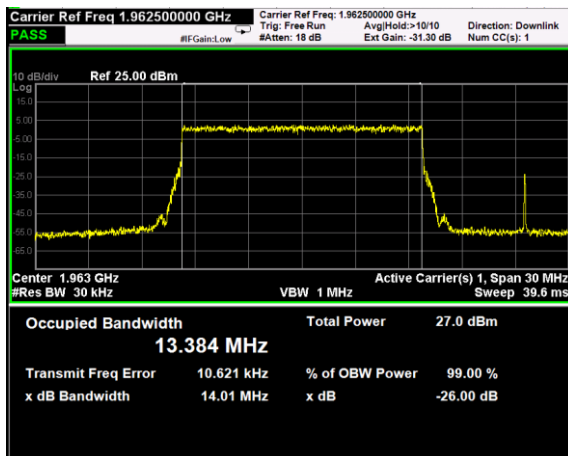
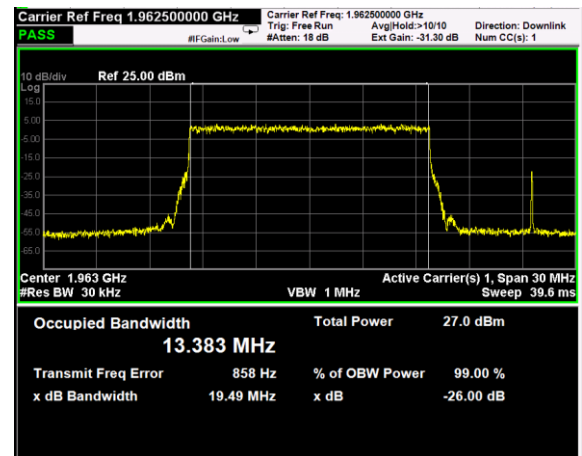

Channel: TOP, Modulation: QPSK,  
BW=5MHz

Channel: TOP, Modulation: 16QAM,  
BW=5MHz

Channel: TOP, Modulation: 64QAM,  
BW=5MHz

Channel: TOP, Modulation: 256QAM,  
BW=5MHz

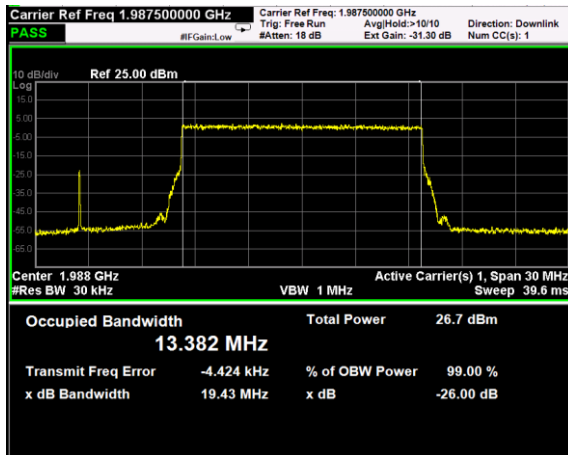

Channel: BOTTOM, Modulation: QPSK,  
BW=10MHz

Channel: BOTTOM, Modulation: 16QAM,  
BW=10MHz

Channel: BOTTOM, Modulation: 64QAM,  
BW=10MHz

Channel: BOTTOM, Modulation: 256QAM,  
BW=10MHz


Channel: MIDDLE, Modulation: QPSK,  
 BW=10MHz

Channel: MIDDLE, Modulation: 16QAM,  
 BW=10MHz

Channel: MIDDLE, Modulation: 64QAM,  
 BW=10MHz

Channel: MIDDLE, Modulation: 256QAM,  
 BW=10MHz

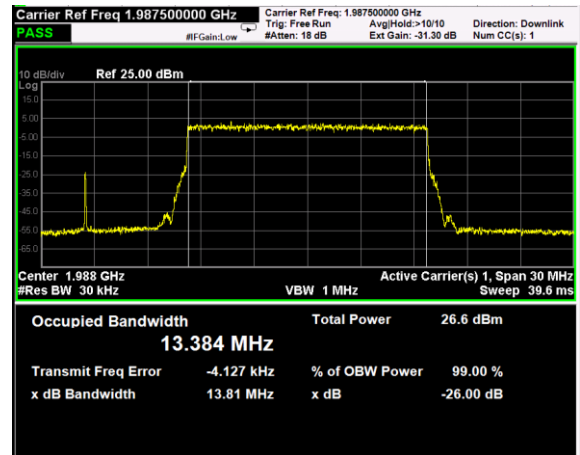

Channel: TOP, Modulation: QPSK,  
 BW=10MHz

Channel: TOP, Modulation: 16QAM,  
 BW=10MHz

Channel: TOP, Modulation: 64QAM,  
 BW=10MHz

Channel: TOP, Modulation: 64QAM,  
 BW=10MHz


Channel: BOTTOM, Modulation: QPSK,  
 BW=15MHz

Channel: BOTTOM, Modulation: 16QAM,  
 BW=15MHz

Channel: BOTTOM, Modulation: 64QAM,  
 BW=15MHz

Channel: BOTTOM, Modulation: 256QAM,  
 BW=15MHz

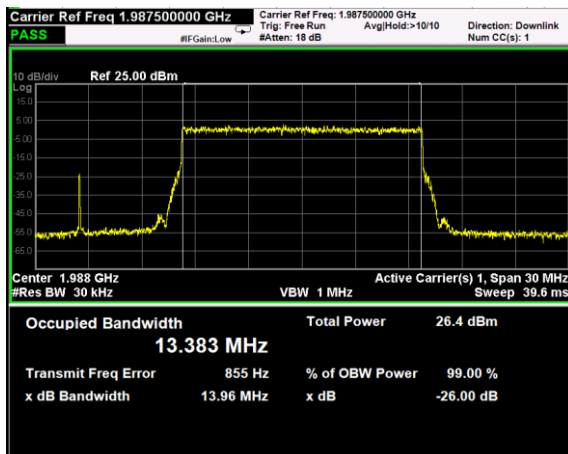

Channel: MIDDLE, Modulation: QPSK,  
 BW=15MHz

Channel: MIDDLE, Modulation: 16QAM,  
 BW=15MHz

Channel: MIDDLE, Modulation: 64QAM,  
 BW=15MHz

Channel: MIDDLE, Modulation: 256QAM,  
 BW=15MHz



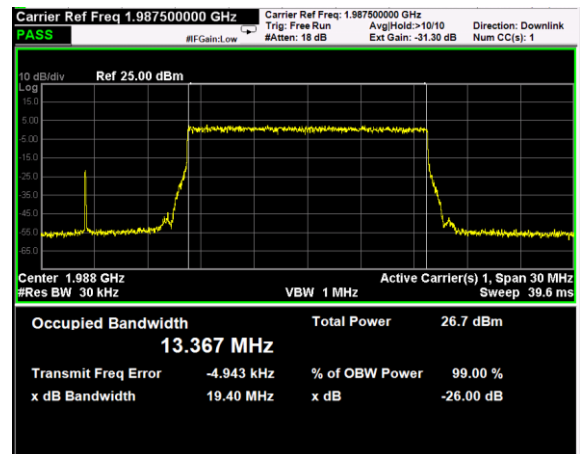
Channel: TOP, Modulation: QPSK,  
BW=15MHz



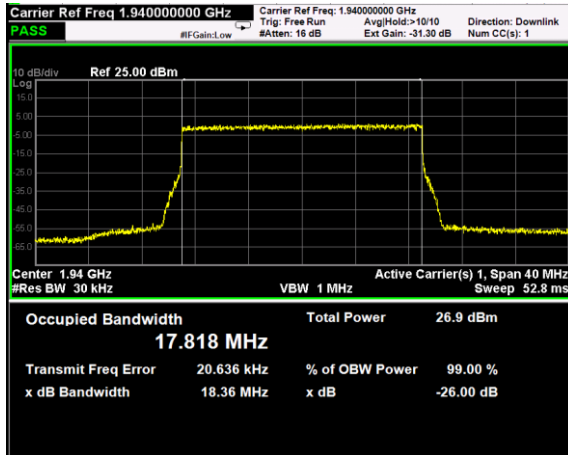
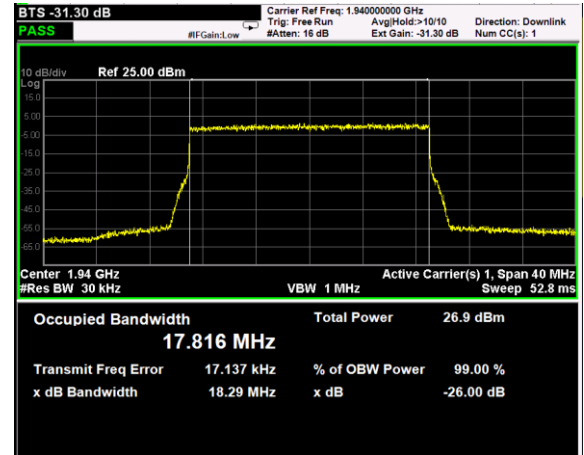
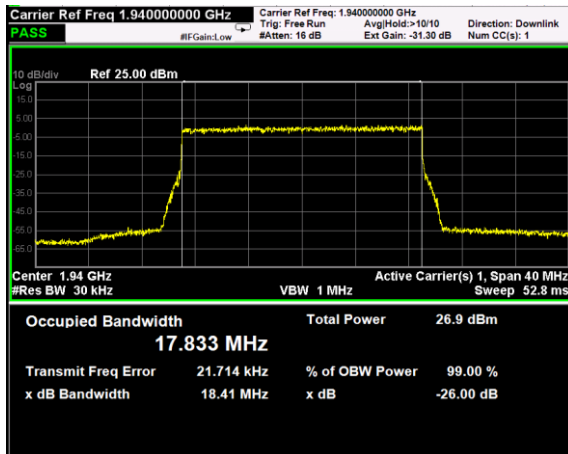
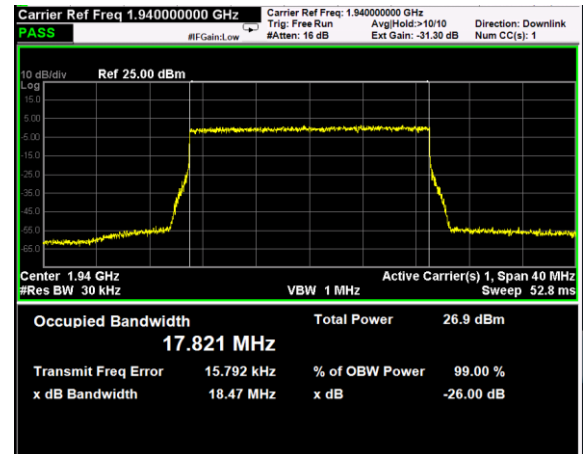
Channel: TOP, Modulation: 16QAM,  
BW=15MHz



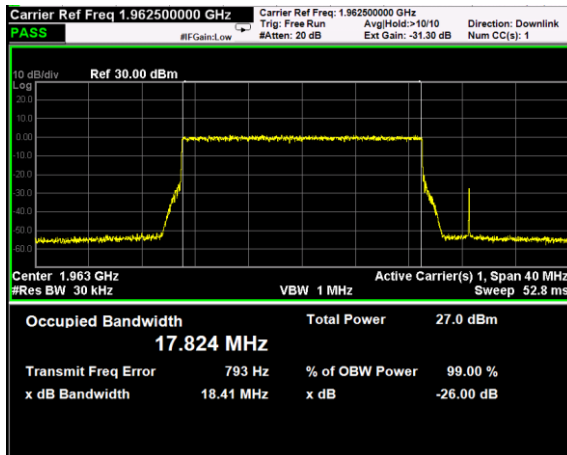
Channel: TOP, Modulation: 64QAM,  
BW=15MHz



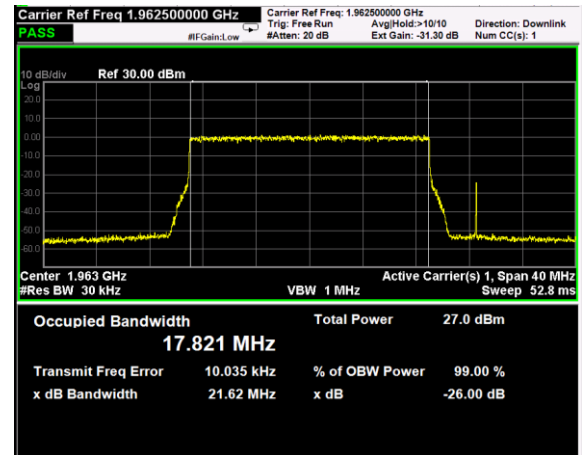
Channel: TOP, Modulation: 64QAM,  
BW=15MHz


Channel: BOTTOM, Modulation: QPSK,  
 BW=20MHz

Channel: BOTTOM, Modulation: 16QAM,  
 BW=20MHz

Channel: BOTTOM, Modulation: 64QAM,  
 BW=20MHz

Channel: BOTTOM, Modulation: 256QAM,  
 BW=20MHz

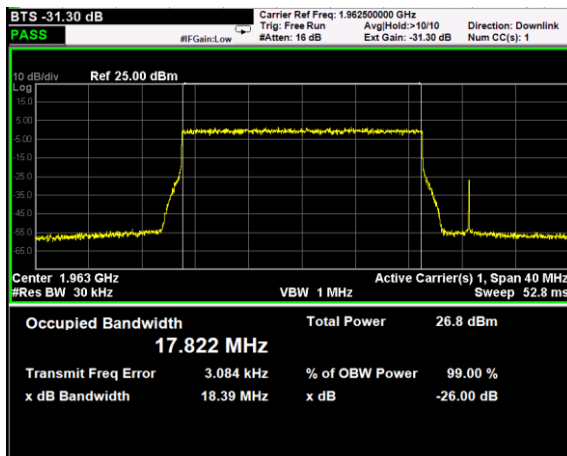




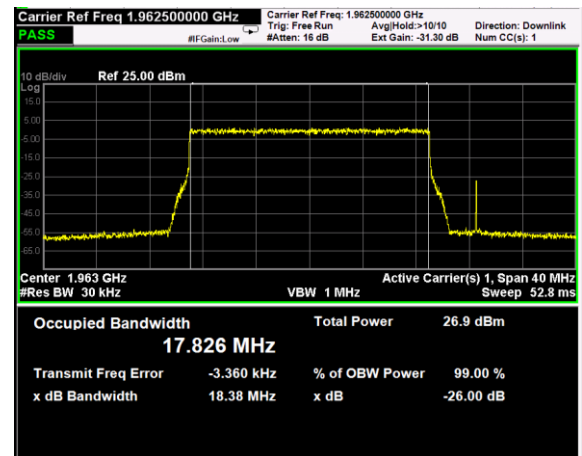
Channel: MIDDLE, Modulation: QPSK,  
BW=20MHz



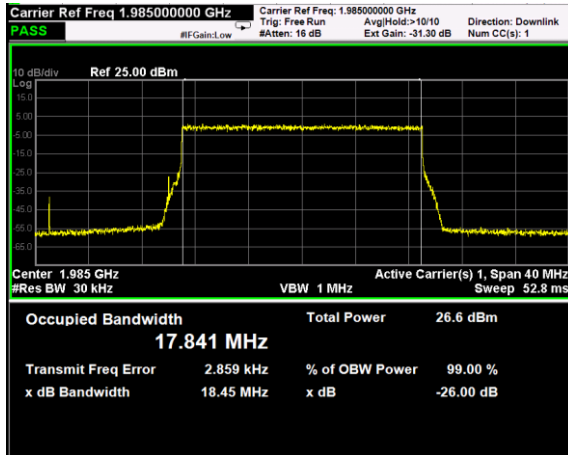
Channel: MIDDLE, Modulation: 16QAM,  
BW=20MHz



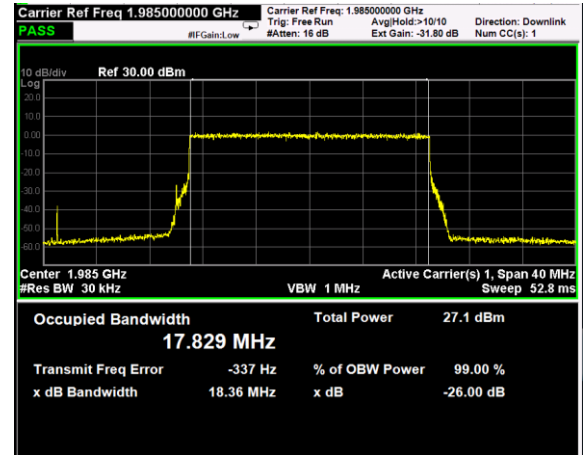
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz



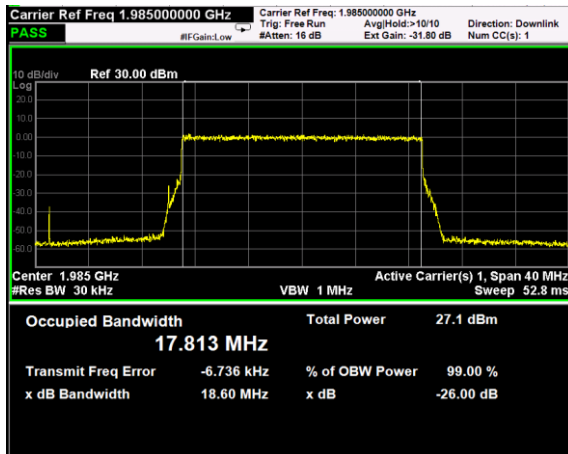
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz



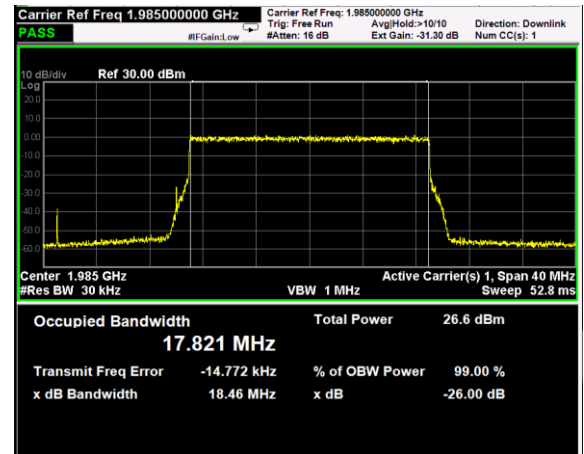
Channel: TOP, Modulation: QPSK,  
 BW=20MHz



Channel: TOP, Modulation: 16QAM,  
 BW=20MHz

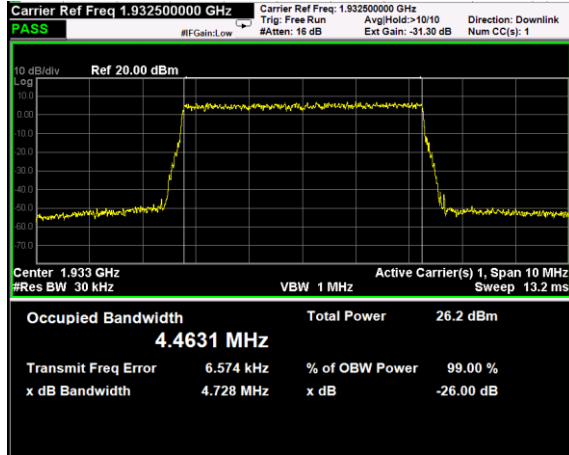


Channel: TOP, Modulation: 64QAM,  
 BW=20MHz

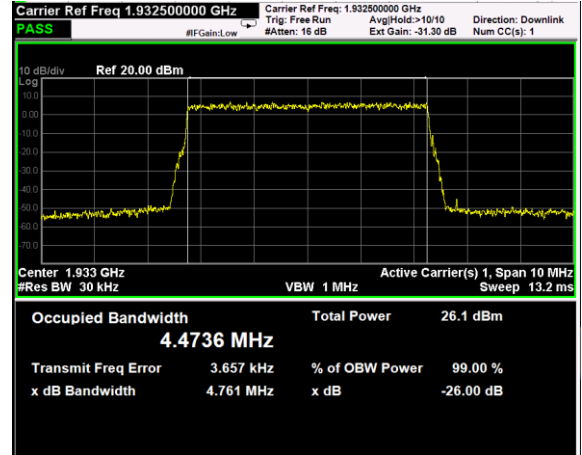


Channel: TOP, Modulation: 64QAM,  
 BW=20MHz

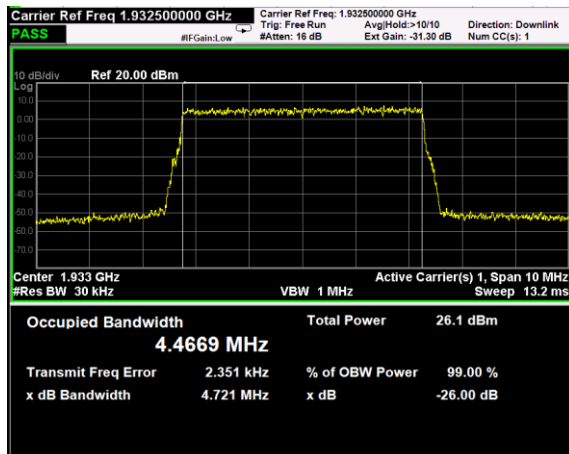
## RF PORT 2



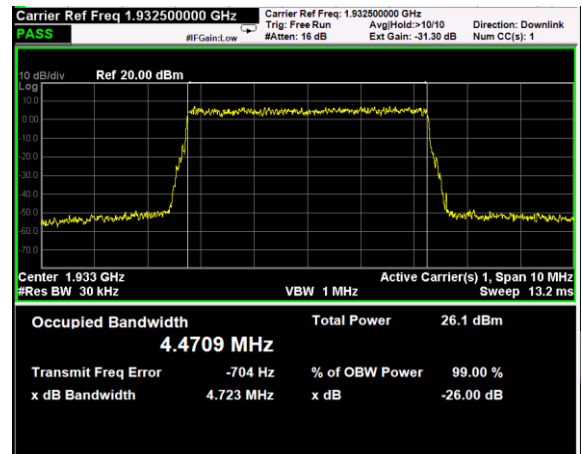
Channel: BOTTOM, Modulation: QPSK,  
BW=5MHz



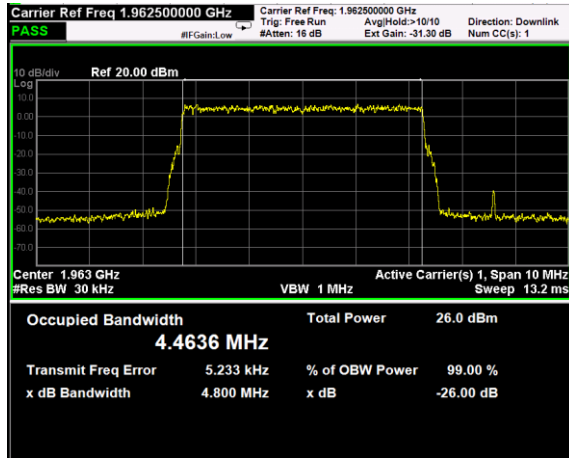
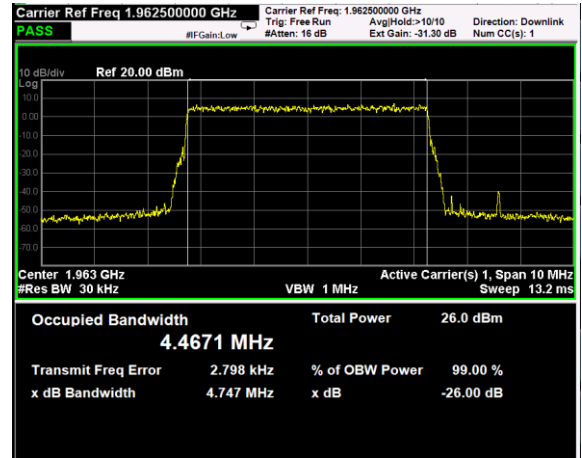
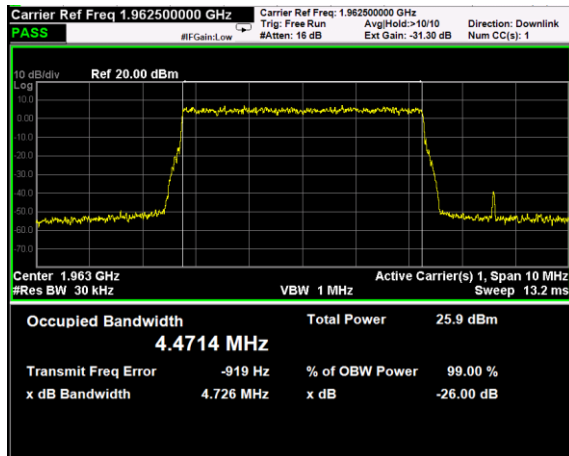
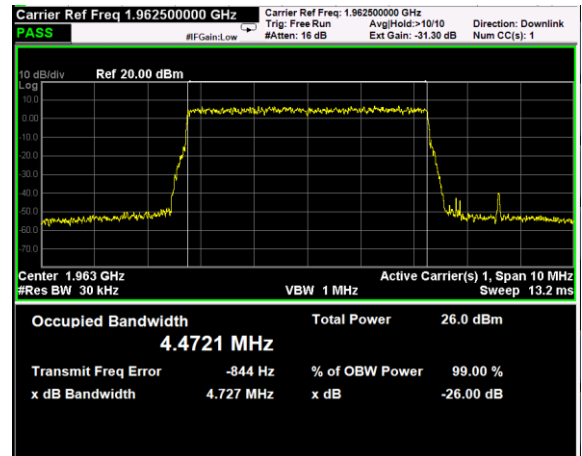
Channel: BOTTOM, Modulation: 16QAM,  
BW=5MHz

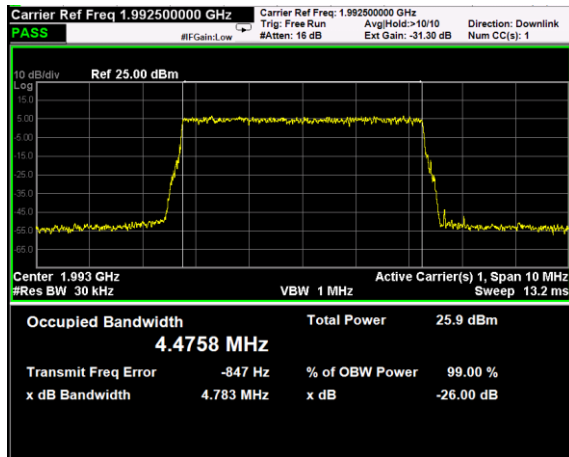
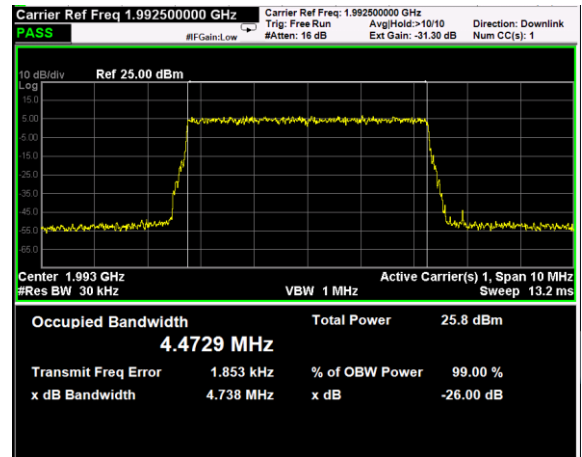
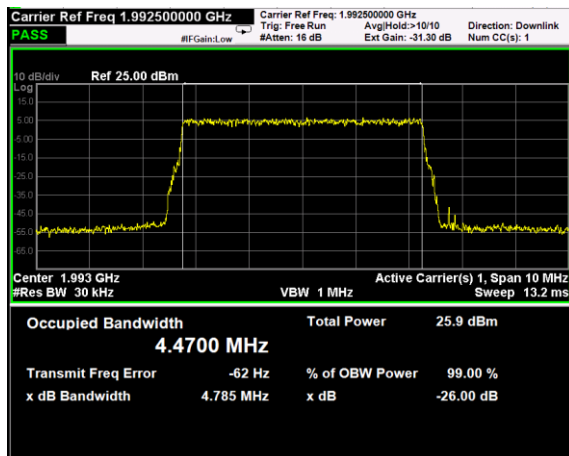
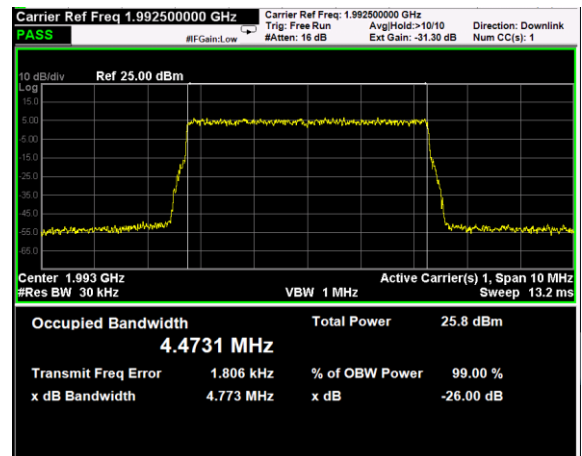


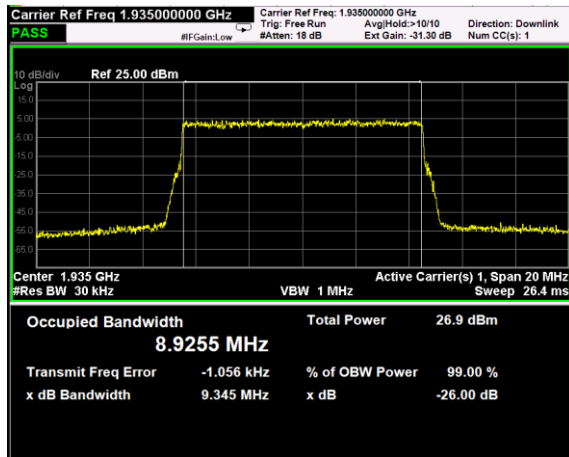
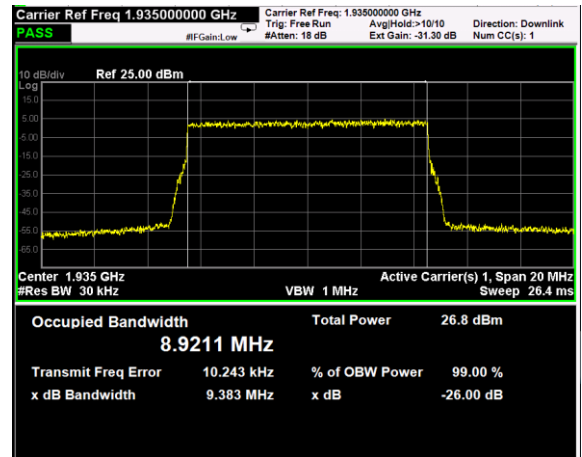
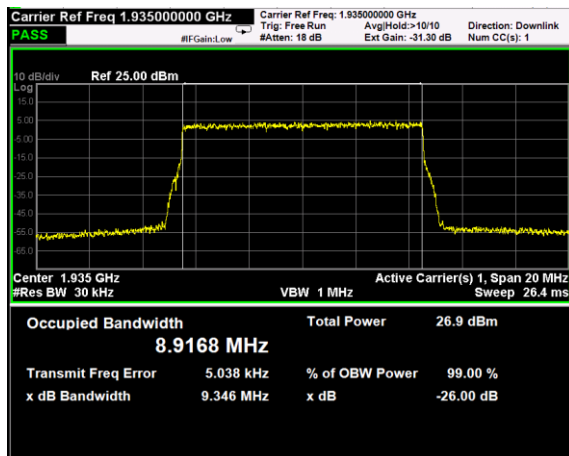
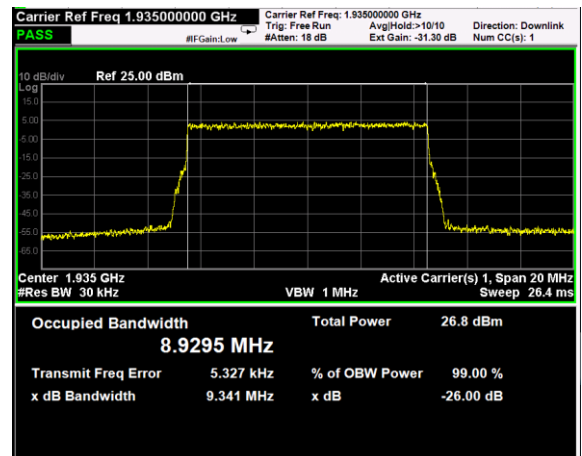
Channel: BOTTOM, Modulation: 64QAM,  
BW=5MHz

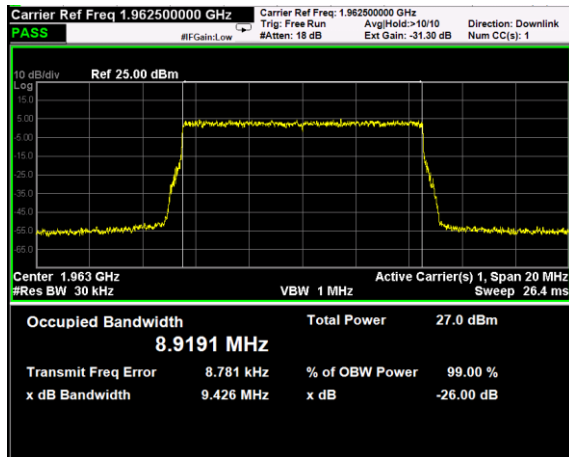
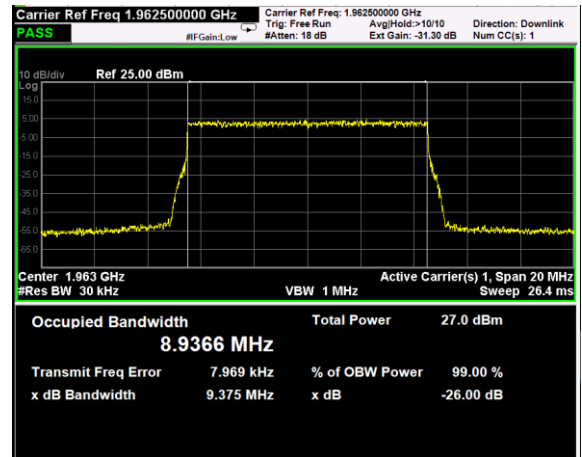
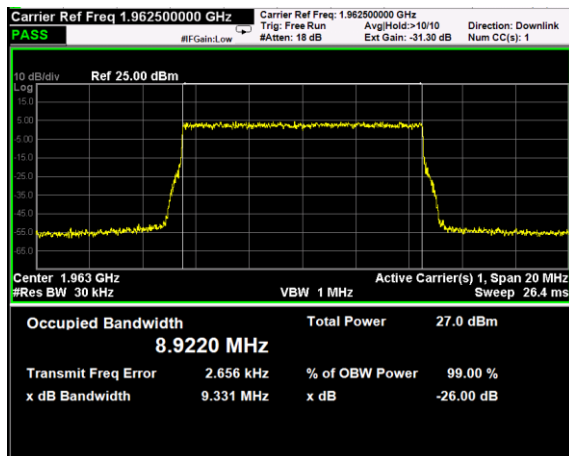
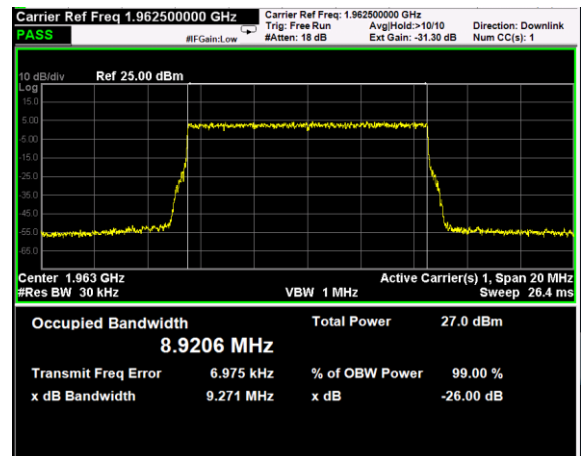


Channel: BOTTOM, Modulation: 256QAM,  
BW=5MHz


Channel: MIDDLE, Modulation: QPSK,  
BW=5MHz

Channel: MIDDLE, Modulation: 16QAM,  
BW=5MHz

Channel: MIDDLE, Modulation: 64QAM,  
BW=5MHz

Channel: MIDDLE, Modulation: 256QAM,  
BW=5MHz


Channel: TOP, Modulation: QPSK,  
 BW=5MHz

Channel: TOP, Modulation: 16QAM,  
 BW=5MHz

Channel: TOP, Modulation: 64QAM,  
 BW=5MHz

Channel: TOP, Modulation: 256QAM,  
 BW=5MHz


Channel: BOTTOM, Modulation: QPSK,  
 BW=10MHz

Channel: BOTTOM, Modulation: 16QAM,  
 BW=10MHz

Channel: BOTTOM, Modulation: 64QAM,  
 BW=10MHz

Channel: BOTTOM, Modulation: 256QAM,  
 BW=10MHz


Channel: MIDDLE, Modulation: QPSK,  
 BW=10MHz

Channel: MIDDLE, Modulation: 16QAM,  
 BW=10MHz

Channel: MIDDLE, Modulation: 64QAM,  
 BW=10MHz

Channel: MIDDLE, Modulation: 256QAM,  
 BW=10MHz