



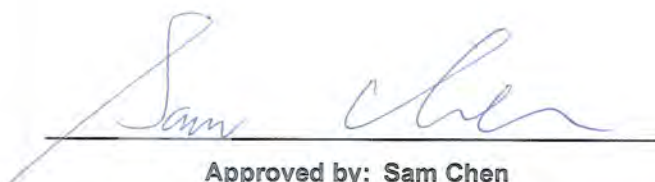
# FCC RADIO TEST REPORT

**FCC ID** : Z8H89FT0053  
**Equipment** : PMP450B  
**Brand Name** : Cambium Networks  
**Model Name** : PMP450B  
**Applicant** : Cambium Networks Inc.  
3800 Golf Road, Suite 360 Rolling Meadows, IL  
60008, USA  
**Manufacturer** : Cambium Networks, Ltd.  
Ashburton, TQ13 7UP, UK  
**Standard** : 47 CFR FCC Part 90

The product was received on Aug. 01, 2019, and testing was started from Dec. 19, 2019 and completed on Jan. 15, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI/TIA-603-D-2010 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A16\_4 Ver1.0



## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                                                 | Result (PASS/FAIL) | Remark |
|---------------|-----------------|------------------------------------------------------------|--------------------|--------|
| 3.1           | 2.1049          | Occupied Bandwidth<br>(Maximum for each channel bandwidth) | PASS               | -      |
| 3.2           | 90.1321         | EIRP Power<br>(Maximum for each channel bandwidth)         | PASS               | -      |
| 3.2           | 90.1321         | EIRP Power Density<br>(Maximum for each channel bandwidth) | PASS               | -      |
| 3.3           | 90.1323         | Transmitter Radiated Spurious Emissions                    | PASS               | -      |
| 3.4           | 90.1323         | Transmitter Conducted Spurious Emissions                   | PASS               | -      |
| 3.5           | 90.210          | Spectrum Mask Emissions                                    | PASS               | -      |
| 3.6           | 90.213          | Frequency Tolerance                                        | PASS               | -      |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Sam Chen**

**Report Producer: Cindy Peng**



# 1 General Description

## 1.1 Product Information

### 1.1.1 Specification Information

| RF General Information |                            |                     |                         |      |
|------------------------|----------------------------|---------------------|-------------------------|------|
| Frequency Range (MHz)  | Modulation                 | Ch. Frequency (MHz) | Channel Bandwidth (MHz) | Nant |
| 3650-3700              | QPSK, 16QAM, 64QAM, 256QAM | 3652.5-3697.5       | 5                       | 2    |
| 3650-3700              | QPSK, 16QAM, 64QAM, 256QAM | 3655-3695           | 10                      | 2    |
| 3650-3700              | QPSK, 16QAM, 64QAM, 256QAM | 3670-3680           | 40                      | 2    |

| EUT Contention Protocols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> <b>Restricted Contention Protocols:</b><br>Restricted contention protocols can prevent co-frequency interference only to radio equipment that uses the same or similar protocols. The IEEE 802.16 standard is an example of a restricted contention protocol. Equipment incorporating such a protocol relies on scheduling so as to avoid interference among multiple transmitters using the same protocol.                                                                                                                                                              |
| <input checked="" type="checkbox"/> <b>Unrestricted Contention Protocols:</b><br>Unrestricted contention protocols can prevent co-frequency interference to radio equipment that uses dissimilar contention protocols. The IEEE 802.11 standard is an example of an unrestricted contention protocol. Equipment incorporating such a protocol listens to the channel before transmitting. If the equipment senses that another radio is operating co-channel, it will not transmit, thereby avoiding co-channel interference to equipment using similar or dissimilar contention-based protocols. |

**1.1.2 Antenna Information**

| Ant. | Port | Brand | Model Name | Antenna Type    | Connector | Gain (dBi) | Array Gain (dBi) |
|------|------|-------|------------|-----------------|-----------|------------|------------------|
| 1    | 1    | -     | -          | Printed Antenna | N/A       | 20         | 0                |
| 2    | 2    | -     | -          | Printed Antenna | N/A       | 20         | 0                |

Note1: The above information was declared by manufacturer.

Note2: The EUT has two antennas. (2TX/2RX)

Both Port 1 and Port 2 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

| Mode     | DC    | DCF (dB) |
|----------|-------|----------|
| LTE_5MHz | 0.897 | 0.47     |
| LTE_10M  | 0.936 | 0.29     |
| LTE_40M  | 0.797 | 0.99     |

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

**1.1.4 EUT Operational Condition**

|                       |          |
|-----------------------|----------|
| EUT Power Type        | From PoE |
| Test Software Version | Telnet   |



## 1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 90
- ♦ ANSI/TIA-603-D-2010
- ♦ FCC KDB 552295 D01v03
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 971168 D01 v03r01

## 1.3 Testing Information

| Testing Location                    |        |                                                                                                                               |
|-------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)<br>TEL : 886-3-327-3456 FAX : 886-3-327-0973        |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.<br>TEL : 886-3-656-9065 FAX : 886-3-656-9085 |

| Test Condition                  | Test Site No. | Test Engineer | Test Environment     | Test Date                   |
|---------------------------------|---------------|---------------|----------------------|-----------------------------|
| RF Conducted                    | TH02-CB       | Ekko Hsieh    | 25~26°C / 64~65%     | Dec. 19, 2019~Jan. 15, 2020 |
| Radiated Emission<br>Below 1GHz | 03CH03-CB     | KJ Huang      | 18.2~19.4°C / 67~73% | Jan. 03, 2020               |
| Radiated Emission<br>Above 1GHz | 03CH05-CB     | KJ Huang      | 18.2~19.4°C / 67~73% | Jan. 03, 2020               |

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

## 1.4 Measurement Uncertainty

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 5.1 dB      | Confidence levels of 95% |
| Conducted Emission                   | 2.4 dB      | Confidence levels of 95% |



## 2 Test Configuration

### 2.1 Test Channel Mode

| Mode                     | Power Setting |
|--------------------------|---------------|
| Band 43_5MHz_QPSK_2TX    | -             |
| 3652.5MHz                | 49/49         |
| 3675MHz                  | 48/49         |
| 3697.5MHz                | 46/48         |
| Band 43_5MHz_16QAM_2TX   | -             |
| 3652.5MHz                | 47/49         |
| 3675MHz                  | 47/49         |
| 3697.5MHz                | 46/48         |
| Band 43_5MHz_64QAM_2TX   | -             |
| 3652.5MHz                | 47/49         |
| 3675MHz                  | 46/49         |
| 3697.5MHz                | 46/48         |
| Band 43_5MHz_256QAM_2TX  | -             |
| 3652.5MHz                | 47/49         |
| 3675MHz                  | 46/49         |
| 3697.5MHz                | 46/48         |
| Band 43_10MHz_QPSK_2TX   | -             |
| 3655MHz                  | 43/43         |
| 3675MHz                  | 41/42         |
| 3695MHz                  | 41/42         |
| Band 43_10MHz_16QAM_2TX  | -             |
| 3655MHz                  | 42/42         |
| 3675MHz                  | 41/42         |
| 3695MHz                  | 41/42         |
| Band 43_10MHz_64QAM_2TX  | -             |
| 3655MHz                  | 42/43         |
| 3675MHz                  | 41/42         |
| 3695MHz                  | 41/42         |
| Band 43_10MHz_256QAM_2TX | -             |
| 3655MHz                  | 42/42         |
| 3675MHz                  | 41/42         |



| Mode                     | Power Setting |
|--------------------------|---------------|
| 3695MHz                  | 41/42         |
| Band 43_40MHz_QPSK_2TX   | -             |
| 3670MHz                  | 30/32         |
| 3675MHz                  | 30/34         |
| 3680MHz                  | 30/33         |
| Band 43_40MHz_16QAM_2TX  | -             |
| 3670MHz                  | 30/32         |
| 3675MHz                  | 30/32         |
| 3680MHz                  | 30/32         |
| Band 43_40MHz_64QAM_2TX  | -             |
| 3670MHz                  | 30/31         |
| 3675MHz                  | 30/31         |
| 3680MHz                  | 30/31         |
| Band 43_40MHz_256QAM_2TX | -             |
| 3670MHz                  | 30/31         |
| 3675MHz                  | 30/31         |
| 3680MHz                  | 30/31         |



## 2.2 Worst Case Modulation Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Occupied Bandwidth<br>EIRP Power<br>EIRP Power Density<br>Transmitter Conducted Spurious Emissions<br>Spectrum Mask Emissions (Max power antenna port)<br>Frequency Tolerance |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                                                                                                                      |
| <b>Modulation</b>                                   | 5MHz: QPSK, 16QAM, 64QAM, 256QAM / 3652.5MHz, 3675MHz, 3697.5MHz                                                                                                              |
|                                                     | 10MHz: QPSK, 16QAM, 64QAM, 256QAM / 3655MHz, 3675MHz, 3695MHz                                                                                                                 |
|                                                     | 40MHz: QPSK, 16QAM, 64QAM, 256QAM / 3670MHz , 3675MHz, 3680MHz                                                                                                                |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Transmitter Radiated Spurious Emissions                                                                                                                                                                                                             |
| <b>Test Condition</b>                               | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX (Cabinet)                                                                                                                                                                                                                                       |
| <b>Worst Case Modulation</b>                        | 40MHz: QPSK / 3675 MHz                                                                                                                                                                                                                              |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX (Cabinet)                                                                                                                                                                                                                                       |
| <b>Worst Case Modulation</b>                        | 40MHz: QPSK / 3675 MHz                                                                                                                                                                                                                              |

Note1: The EUT can only be used at Z axis position

Note2: For Spectrum Mask Emissions test, it tests with highest power port only (Port 1).

Note3: It was supplied power by PoE for EUT, and the PoE is for measurement only, would not be marketed.

| Equipment | Brand Name | Model Name   | FCC ID |
|-----------|------------|--------------|--------|
| PoE       | Cambium    | NET-P15-30IN | N/A    |

## 2.3 EUT Operation during Test

During the test, "Telnet" under WIN 7 was executed the test program to control the EUT continuously transmit RF signal.



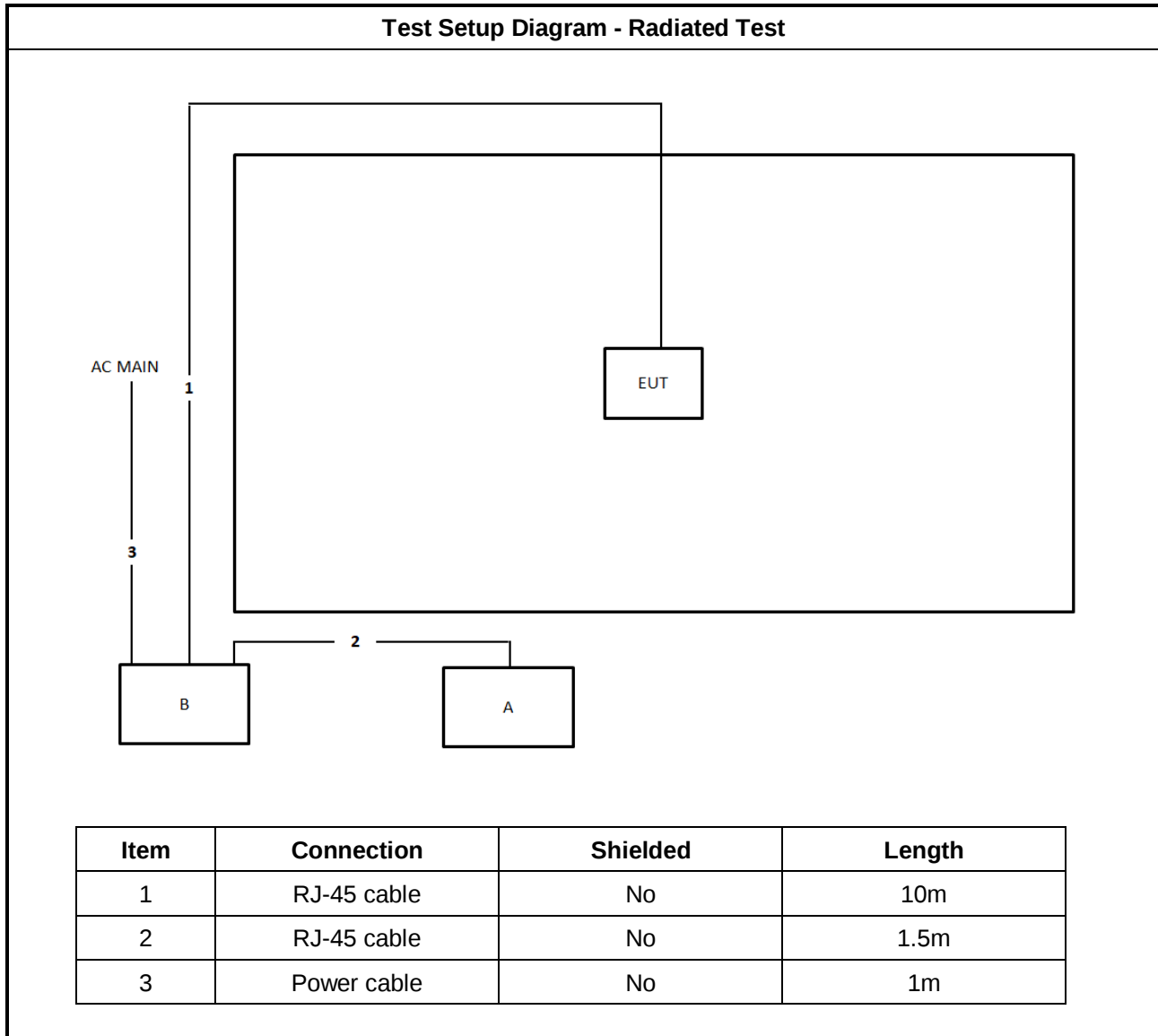
## **2.4 Accessories**

N/A

## **2.5 Support Equipment**

| Support Equipment |           |            |              |        |
|-------------------|-----------|------------|--------------|--------|
| No.               | Equipment | Brand Name | Model Name   | FCC ID |
| A                 | Notebook  | DELL       | E4300        | N/A    |
| B                 | PoE       | Cambium    | NET-P15-30IN | N/A    |

## 2.6 Test Setup Diagram



### 3 Test Result

#### 3.1 Occupied Bandwidth

##### 3.1.1 Limit of Occupied Bandwidth

| 99% Occupied Bandwidth                                                                                                                                                                                                                                                                               | None |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Note 1: The 99% occupied bandwidth is the frequency bandwidth of the signal power at the 99% channel power of occupied bandwidth when resolution bandwidth should be approximately 1 % to 5 % of the occupied bandwidth (OBW). These measurements shall also be performed at normal test conditions. |      |

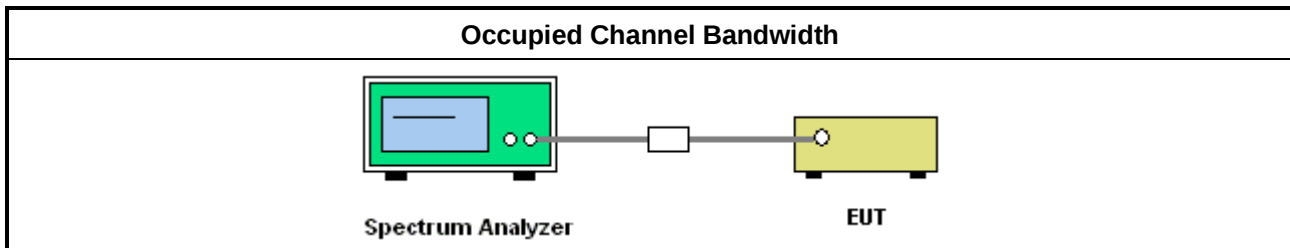
##### 3.1.2 Measuring Instruments

Refer test equipment and calibration data list in test report clause 4.

##### 3.1.3 Test Procedures

Method of measurement: Refer as ANSI/TIA-603-D-2010, clauses 1.3.4.4. In case of conducted measurements on smart antenna systems (equipment with multiple transmits chains) measurements need only to be performed on one of the active transmit chains (antenna outputs).

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Occupied Bandwidth

Refer as Appendix A

## 3.2 EIRP Power and EIRP Power Density

### 3.2.1 Limit of EIRP Power and EIRP Power Density

| Frequency Band | Channel Bandwidth | EIRP Power      | EIRP Power Density   |
|----------------|-------------------|-----------------|----------------------|
| 3650-3700 MHz  | 5 MHz             | 5 W (37 dBm)    | 1 W/MHz (30 dBm/MHz) |
| 3650-3700 MHz  | 10 MHz            | 10 W (40 dBm)   | 1 W/MHz (30 dBm/MHz) |
| 3650-3700 MHz  | 40 MHz            | 25 W (43.98dBm) | 1 W/MHz (30 dBm/MHz) |

Note: For the applicable limit, see FCC 90.1321(a)

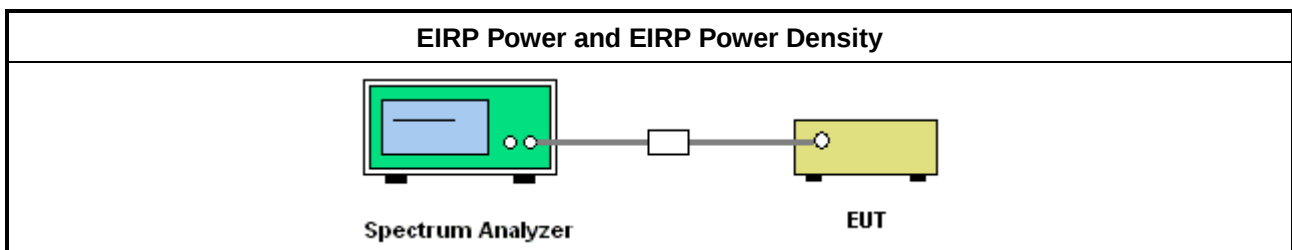
### 3.2.2 Measuring Instruments

Refer test equipment and calibration data list in test report clause 4.

### 3.2.3 Test Procedures

|                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method of measurement:                                                                                                                                                                                                                                                                                                                                                                      |
| <input checked="" type="checkbox"/> Refer as FCC KDB 971168 clause 5.2, band power and clause 5.4 power density for spectrum analyzer measurement.                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/> Refer as FCC KDB 412172, EIRP power by conducted power adding the effective antenna gain.                                                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> Refer as FCC KDB 662911, In-band power measurements must be tested using techniques that measure and sum the spectra across the transmitter outputs. In-band power and In-band power density measurements must be tested using techniques (1) or (2). (1) Measure and sum the spectra across the transmitter outputs. (2) Measure and add 10 log(N) dB. |
| <input type="checkbox"/> Refer as ANSI/TIA-603-D-2010, clause 3.2.1 for power meter measurement.                                                                                                                                                                                                                                                                                            |

### 3.2.4 Test Setup



### 3.2.5 Test Result of EIRP Power

Refer as Appendix B

### 3.2.6 Test Result of EIRP Power Density

Refer as Appendix B



### 3.3 Transmitter Radiated Spurious Emissions

#### 3.3.1 Limit of Transmitter Radiated Spurious Emissions

| Transmitter Radiated Spurious Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB (-13dBm). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth. |
| Note: For the applicable limit, see FCC 90.1323                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

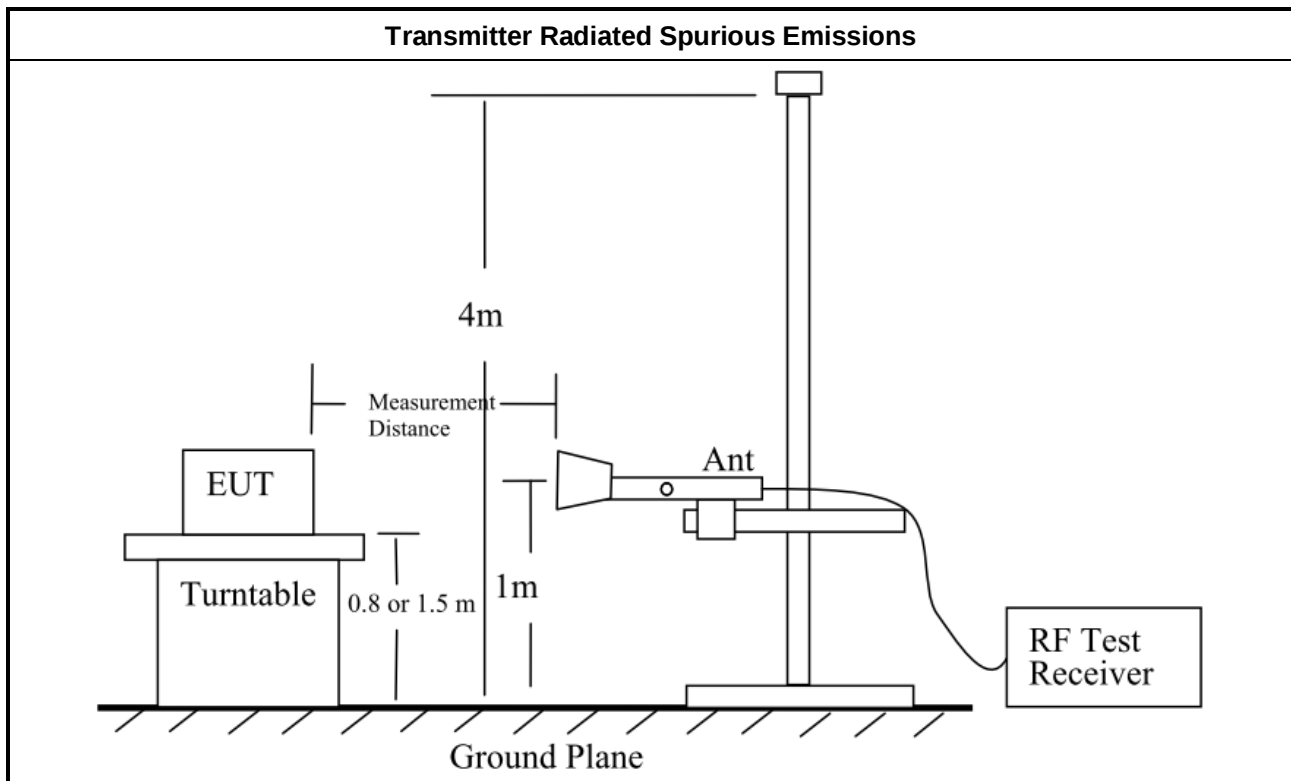
#### 3.3.2 Measuring Instruments

Refer test equipment and calibration data list in test report clause 4.

#### 3.3.3 Test Procedures

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method of measurement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> Refer as ANSI/TIA-603-D-2010, clause 3.2.12 for radiated measurement.                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> Refer as FCC KDB 412172, using the equation (1) converted test result from EIRP to E-field strength.<br>Then $EIRP (dBm) = E\text{-field strength (dBuV/m at 3m)} - 95.2 \text{ dB}$                                                                                                                                                                                                                                                                      |
| <input checked="" type="checkbox"/> In case a narrower measurement bandwidth was used, the following conversion formula has to be applied: (e.g. if reference bandwidth 1 MHz and measurement bandwidth 100 kHz, then measurement bandwidth conversion factor is 10 dB)<br>$B = A + 10 \log (BW_{ref} / BW_{measured})$ <ul style="list-style-type: none"><li>• A is the value at the narrower measurement bandwidth;</li><li>• B is the value referred to the reference bandwidth;</li></ul> |

### 3.3.4 Test Setup



### 3.3.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level.

### 3.3.6 Test Result of Transmitter Radiated Spurious Emissions

Refer as Appendix C



### 3.4 Transmitter Conducted Spurious Emissions

#### 3.4.1 Limit of Transmitter Conducted Spurious Emissions

| Transmitter Conducted Spurious Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB (-13dBm). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth. |
| NOTE: For the applicable limit, see FCC 90.1323                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

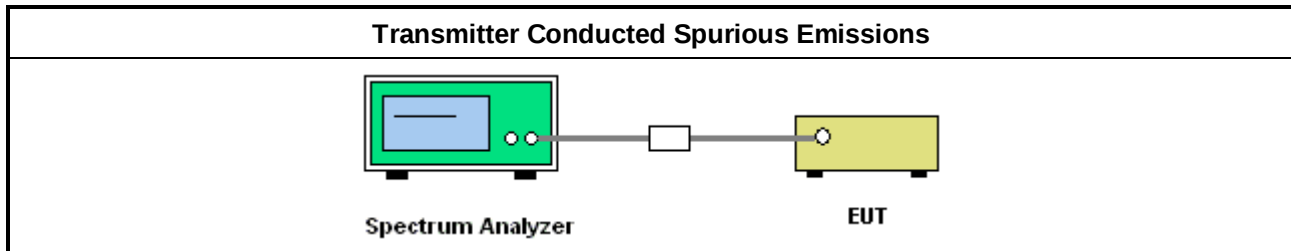
#### 3.4.2 Measuring Instruments

Refer test equipment and calibration data list in test report clause 4.

#### 3.4.3 Test Procedures

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method of measurement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> Refer as ANSI/TIA-603-D-2010, clause 3.2.13 for conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> Refer as FCC KDB 662911, spurious emission measurements is absolute limits. Spurious emissions must be tested against absolute limits using techniques (1) or (2). (1) Measure and sum the spectra across the transmitter outputs. (2) Measure and add 10 log (N) dB.<br><input type="checkbox"/> If using techniques (1), then measure and sum the spectra across the transmitter outputs.<br><input checked="" type="checkbox"/> If using techniques (2) and N transmitter outputs, then spurious emissions limits on each individual output. Measure and add 10 log (N) dB. |
| <input checked="" type="checkbox"/> In case a narrower measurement bandwidth was used, the following conversion formula has to be applied: (e.g. if reference bandwidth 1 MHz and measurement bandwidth 100 kHz, then measurement bandwidth conversion factor is 10 dB)<br>$B = A + 10 \log (BW_{ref} / BW_{measured})$ <ul style="list-style-type: none"><li>• A is the value at the narrower measurement bandwidth;</li><li>• B is the value referred to the reference bandwidth;</li></ul>                                                                                                                      |

### 3.4.4 Test Setup



### 3.4.5 Test Result of Transmitter Conducted Spurious Emissions

Refer as Appendix D

### 3.4.6 Test Result of Transmitter Bandedge Emissions

Refer as Appendix D



### **3.5 Spectrum Mask Emissions**

#### **3.5.1 Limit of Spectrum Mask Emissions**

| <b>Spectrum Mask Emissions (Mask B)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:<br>(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.<br>(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.<br>(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB. |
| Note: For the applicable limit, see FCC 90.210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

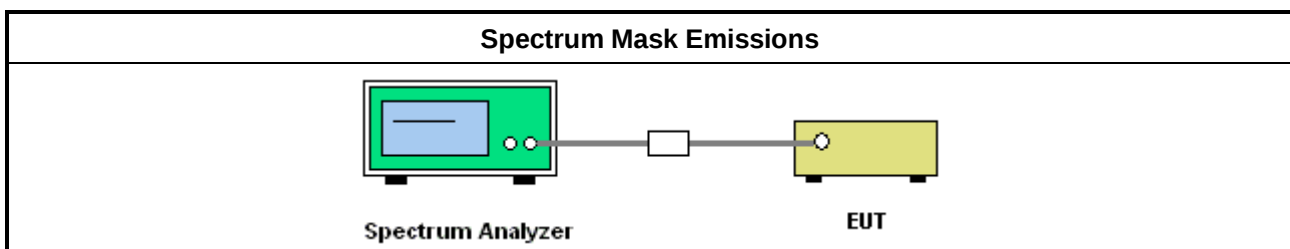
#### **3.5.2 Measuring Instruments**

Refer test equipment and calibration data list in test report clause 4.

### 3.5.3 Test Procedures

|                                     |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method of measurement:              |                                                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> | Refer as ANSI/TIA-603-D-2010, clause 3.2.11 for sideband measurement.                                                                                                                                                                                                                                                          |
| <input type="checkbox"/>            | Refer as FCC KDB 662911, emission mask measurements is absolute limits. Emission mask must be tested against absolute limits using techniques (1) or (2). (1) Measure and sum the spectra across the transmitter outputs. (2) Measure and add 10 log (N) dB.                                                                   |
| <input type="checkbox"/>            | If using techniques (1), then measure and sum the spectra across the transmitter outputs.                                                                                                                                                                                                                                      |
| <input type="checkbox"/>            | If using techniques (2) and N transmitter outputs, then emission mask limits on each individual output. Measure and add 10 log (N) dB.                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 662911, emission mask measurements is relative emission limits. When testing emission mask against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs. |
| <input type="checkbox"/>            | In case a narrower measurement bandwidth was used, the following conversion formula has to be applied: (e.g. if reference bandwidth 1 MHz and measurement bandwidth 100 kHz, then measurement bandwidth conversion factor is 10 dB)                                                                                            |
|                                     | $B = A + 10 \log (BW_{ref} / BW_{measured})$ <ul style="list-style-type: none"> <li>• A is the value at the narrower measurement bandwidth;</li> <li>• B is the value referred to the reference bandwidth;</li> </ul>                                                                                                          |

### 3.5.4 Test Setup



### 3.5.5 Test Result of Spectrum Mask Emissions

Refer as Appendix E

### 3.6 Frequency Tolerance

#### 3.6.1 Limit of Frequency Tolerance

| Frequency Tolerance                                                                     | Limit                                        |
|-----------------------------------------------------------------------------------------|----------------------------------------------|
| Refer as FCC 90.213                                                                     | To be specified in the station authorization |
| Note: These measurements shall also be performed at normal and extreme test conditions. |                                              |

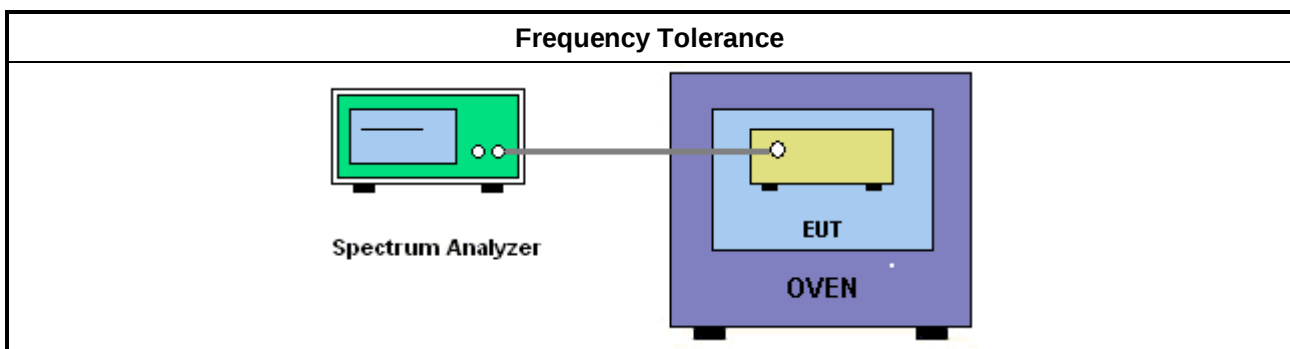
#### 3.6.2 Measuring Instruments

Refer test equipment and calibration data list in test report clause 4.

#### 3.6.3 Test Procedures

Method of measurement: Refer as ANSI/TIA-603-D-2010, clause 3.2.2.

#### 3.6.4 Test Setup



#### 3.6.5 Frequency Tolerance with Varying Supply Voltage

Refer as Appendix F

#### 3.6.6 Frequency Tolerance with Respect to Ambient Temperature

Refer as Appendix F



## 4 Test Equipment and Calibration Data

| Instrument                        | Manufacturer | Model No.        | Serial No.       | Characteristics      | Calibration Date | Calibration Due Date | Remark                |
|-----------------------------------|--------------|------------------|------------------|----------------------|------------------|----------------------|-----------------------|
| Bilog Antenna with 6dB Attenuator | Chase & EMCI | CBL6111A &N-6-06 | 1543 &AT-N0604   | 30MHz ~ 1GHz         | Apr. 02, 2019    | Apr. 01, 2020        | Radiation (03CH03-CB) |
| Pre-Amplifier                     | Agilent      | 8447D            | 2944A10259       | 9kHz ~ 1.3GHz        | Jan. 16, 2019    | Jan. 15, 2020        | Radiation (03CH03-CB) |
| Spectrum Analyzer                 | R&S          | FSP-40           | 100019           | 9kHz ~ 40GHz         | Jun. 19, 2019    | Jun. 18, 2020        | Radiation (03CH03-CB) |
| EMI Test Receiver                 | R&S          | ESCS             | 826547/017       | 9kHz ~ 2.75GHz       | May 15, 2019     | May 14, 2020         | Radiation (03CH03-CB) |
| RF Cable-low                      | Woken        | RG402            | Low Cable-02+27  | 25MHz ~ 1GHz         | Oct. 07, 2019    | Oct. 06, 2020        | Radiation (03CH03-CB) |
| Horn Antenna                      | SCHWARZBECK  | BBHA9120 D       | BBHA 9120D-1291  | 1GHz~18GHz           | Oct. 05, 2019    | Oct. 04, 2020        | Radiation (03CH05-CB) |
| Horn Antenna                      | SCHWARZBECK  | BBHA 9170        | BBHA9170507      | 15GHz ~ 40GHz        | Jun. 12, 2019    | Jun. 11, 2020        | Radiation (03CH05-CB) |
| Pre-Amplifier                     | EMCI         | EMC12630 SE      | 980287           | 1GHz ~ 26.5GHz       | Apr. 16, 2019    | Apr. 15, 2020        | Radiation (03CH05-CB) |
| Pre-Amplifier                     | MITEQ        | TTA1840-35 -HG   | 1864479          | 18GHz ~ 40GHz        | Jul. 03, 2019    | Jul. 02, 2020        | Radiation (03CH05-CB) |
| Spectrum Analyzer                 | R&S          | FSP40            | 100304           | 9kHz ~ 40GHz         | Aug. 15, 2019    | Aug. 14, 2020        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402            | High Cable-28    | 1GHz~18GHz           | Oct. 07, 2019    | Oct. 06, 2020        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402            | High Cable-04+28 | 1GHz~18GHz           | Oct. 07, 2019    | Oct. 06, 2020        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402            | High Cable-40G#1 | 18GHz ~ 40 GHz       | Jul. 24, 2019    | Jul. 23, 2020        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402            | High Cable-40G#2 | 18GHz ~ 40 GHz       | Jul. 24, 2019    | Jul. 23, 2020        | Radiation (03CH05-CB) |
| Spectrum analyzer                 | R&S          | FSV40            | 101027           | 9kHz~40GHz           | Jul. 02, 2019    | Jul. 01, 2020        | Conducted (TH02-CB)   |
| Spectrum analyzer                 | Keysight     | N9020A           | MY55400138       | 10 Hz up to 26.5 GHz | Dec. 11, 2019    | Dec. 10, 2020        | Conducted (TH02-CB)   |
| Temp. and Humidity Chamber        | Ten Billion  | TTH-C2SP         | TBN-1010206      | -20~150 degree       | Mar. 04, 2019    | Mar. 03, 2020        | Conducted (TH02-CB)   |
| RF Cable-high                     | Woken        | RG402            | High Cable-01    | 1 GHz ~ 26.5 GHz     | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB)   |
| RF Cable-high                     | Woken        | RG402            | High Cable-02    | 1 GHz ~ 26.5 GHz     | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB)   |
| RF Cable-high                     | Woken        | RG402            | High Cable-3     | 1 GHz ~ 26.5 GHz     | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB)   |
| RF Cable-high                     | Woken        | RG402            | High Cable-04    | 1 GHz ~ 26.5 GHz     | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB)   |



| Instrument                 | Manufacturer        | Model No. | Serial No.    | Characteristics  | Calibration Date | Calibration Due Date | Remark              |
|----------------------------|---------------------|-----------|---------------|------------------|------------------|----------------------|---------------------|
| RF Cable-high              | Woken               | RG402     | High Cable-05 | 1 GHz – 26.5 GHz | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB) |
| Cable                      | Marvelous Microwave | n/a       | Cable-REF-1   | 9k-1GHz          | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB) |
| RF Cable-high              | Woken               | RG402     | High Cable-3  | 1 GHz – 40 GHz   | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH02-CB) |
| Power Sensor               | Anritsu             | MA2411B   | 1126203       | 300MHz~40GHz     | Sep. 11, 2019    | Sep. 10, 2020        | Conducted (TH02-CB) |
| Power Meter                | Anritsu             | ML2495A   | 1210004       | 300MHz~40GHz     | Sep. 11, 2019    | Sep. 10, 2020        | Conducted (TH02-CB) |
| MW Analog Signal Generator | Keysight            | N5183A    | MY50142965    | 100kHz~20GHz     | Nov. 17, 2019    | Nov. 16, 2020        | Conducted (TH02-CB) |
| Vector Signal generator    | R&S                 | SMU200A   | 102782        | 100kHz-6GHz      | Jan. 16, 2019    | Jan. 15, 2020        | Conducted (TH02-CB) |

Note: Calibration Interval of instruments listed above is one year.

**For 5MHz:  
Summary**

| Mode            | Max-NdB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-NdB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------|-----------------|-----------------|----------|-----------------|-----------------|
| Band 43         | -               | -               | -        | -               | -               |
| 5MHz_QPSK_2TX   | 4.863M          | 4.586M          | 4M59G7D  | 4.838M          | 4.578M          |
| 5MHz_16QAM_2TX  | 4.863M          | 4.592M          | 4M59W7D  | 4.819M          | 4.582M          |
| 5MHz_64QAM_2TX  | 4.875M          | 4.597M          | 4M60W7D  | 4.831M          | 4.585M          |
| 5MHz_256QAM_2TX | 4.863M          | 4.594M          | 4M59W7D  | 4.838M          | 4.585M          |

**Max-N dB** = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

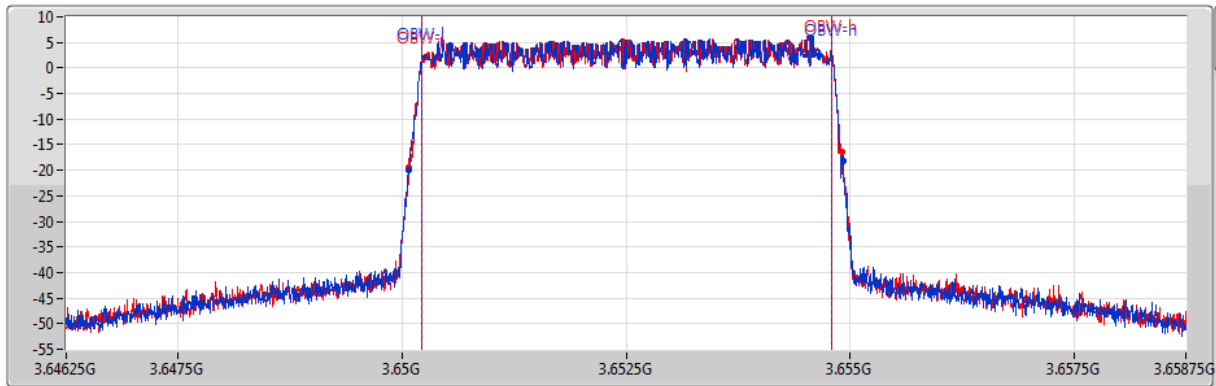
**Result**

| Mode                    | Result | Limit<br>(Hz) | Port 1-NdB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-NdB<br>(Hz) | Port 2-OBW<br>(Hz) |
|-------------------------|--------|---------------|--------------------|--------------------|--------------------|--------------------|
| Band 43_5MHz_QPSK_2TX   | -      | -             | -                  | -                  | -                  | -                  |
| 3652.5MHz               | Pass   | Inf           | 4.863M             | 4.582M             | 4.838M             | 4.578M             |
| 3675MHz                 | Pass   | Inf           | 4.838M             | 4.586M             | 4.844M             | 4.581M             |
| 3697.5MHz               | Pass   | Inf           | 4.838M             | 4.586M             | 4.863M             | 4.582M             |
| Band 43_5MHz_16QAM_2TX  | -      | -             | -                  | -                  | -                  | -                  |
| 3652.5MHz               | Pass   | Inf           | 4.863M             | 4.583M             | 4.844M             | 4.592M             |
| 3675MHz                 | Pass   | Inf           | 4.856M             | 4.583M             | 4.85M              | 4.582M             |
| 3697.5MHz               | Pass   | Inf           | 4.819M             | 4.591M             | 4.838M             | 4.586M             |
| Band 43_5MHz_64QAM_2TX  | -      | -             | -                  | -                  | -                  | -                  |
| 3652.5MHz               | Pass   | Inf           | 4.844M             | 4.585M             | 4.831M             | 4.586M             |
| 3675MHz                 | Pass   | Inf           | 4.863M             | 4.589M             | 4.875M             | 4.586M             |
| 3697.5MHz               | Pass   | Inf           | 4.85M              | 4.597M             | 4.869M             | 4.588M             |
| Band 43_5MHz_256QAM_2TX | -      | -             | -                  | -                  | -                  | -                  |
| 3652.5MHz               | Pass   | Inf           | 4.838M             | 4.587M             | 4.844M             | 4.587M             |
| 3675MHz                 | Pass   | Inf           | 4.863M             | 4.585M             | 4.863M             | 4.585M             |
| 3697.5MHz               | Pass   | Inf           | 4.85M              | 4.594M             | 4.838M             | 4.588M             |

**Port X-N dB** = Port X 26dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**Band 43\_5MHz\_2TX**
**EBW**
**3652.5MHz\_QPSK**

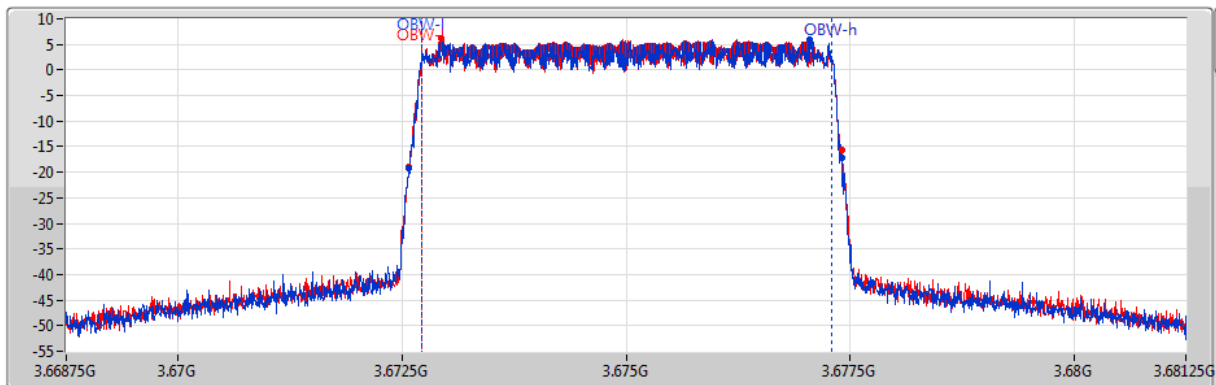
02/01/2020



| 26dB(Hz) | FI-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | FI-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz)  | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|---------|----------|---------|---------|
| 4.863M   | 3.650069G   | 3.654931G   | 4.582M  | 3.650222G  | 3.654802G  | 1    | 3.6525G | 12.5M    | 51k     | 200k    |
| 4.838M   | 3.650075G   | 3.654913G   | 4.578M  | 3.650223G  | 3.654801G  | 2    | 3.6525G | 12.5M    | 51k     | 200k    |

**Band 43\_5MHz\_2TX**
**EBW**
**3675MHz\_QPSK**

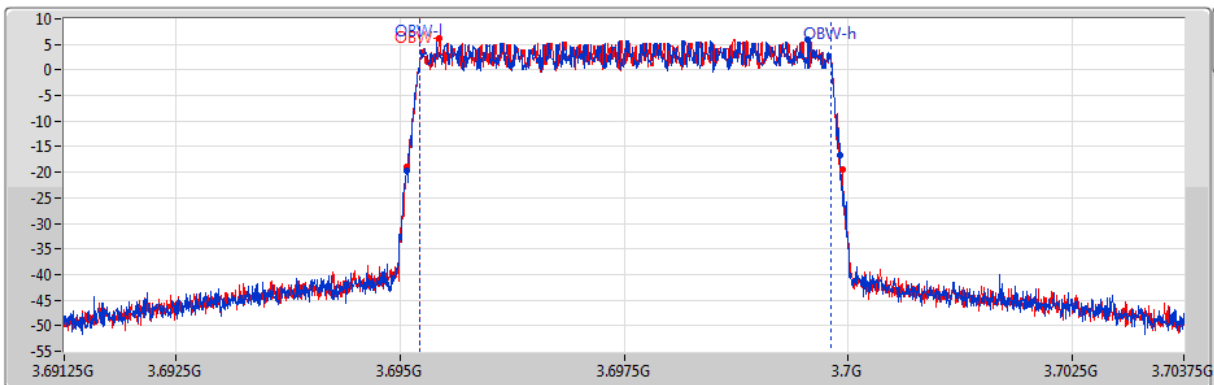
02/01/2020



| 26dB(Hz) | FI-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | FI-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 4.838M   | 3.672575G   | 3.677413G   | 4.586M  | 3.672716G  | 3.677302G  | 1    | 3.675G | 12.5M    | 51k     | 200k    |
| 4.844M   | 3.672575G   | 3.677419G   | 4.581M  | 3.67272G   | 3.677301G  | 2    | 3.675G | 12.5M    | 51k     | 200k    |

**Band 43\_5MHz\_2TX**
**EBW**
**3697.5MHz\_QPSK**

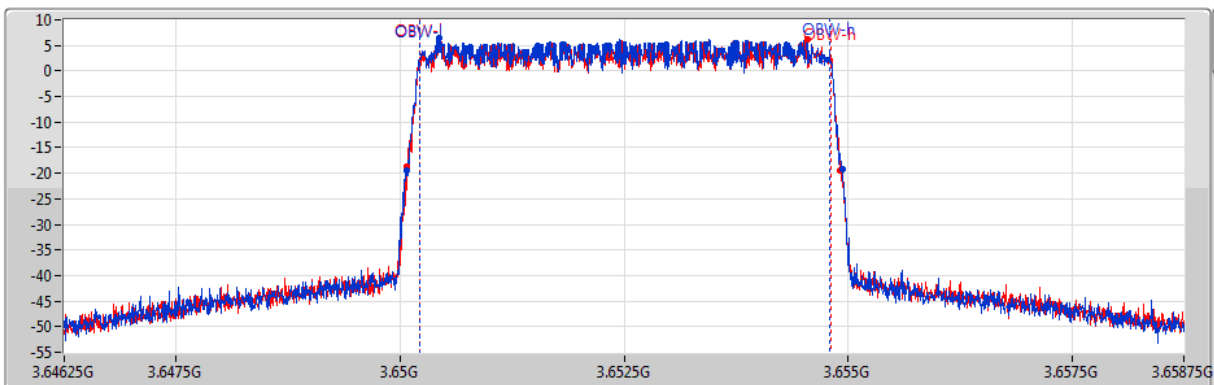
02/01/2020


Port 1  
Port 2

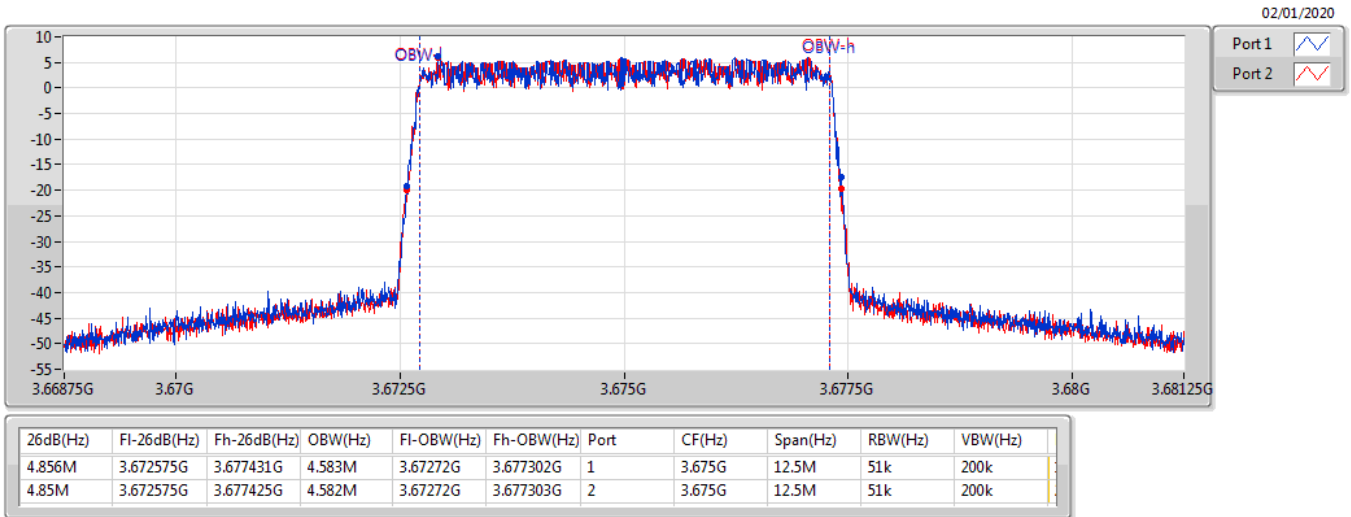
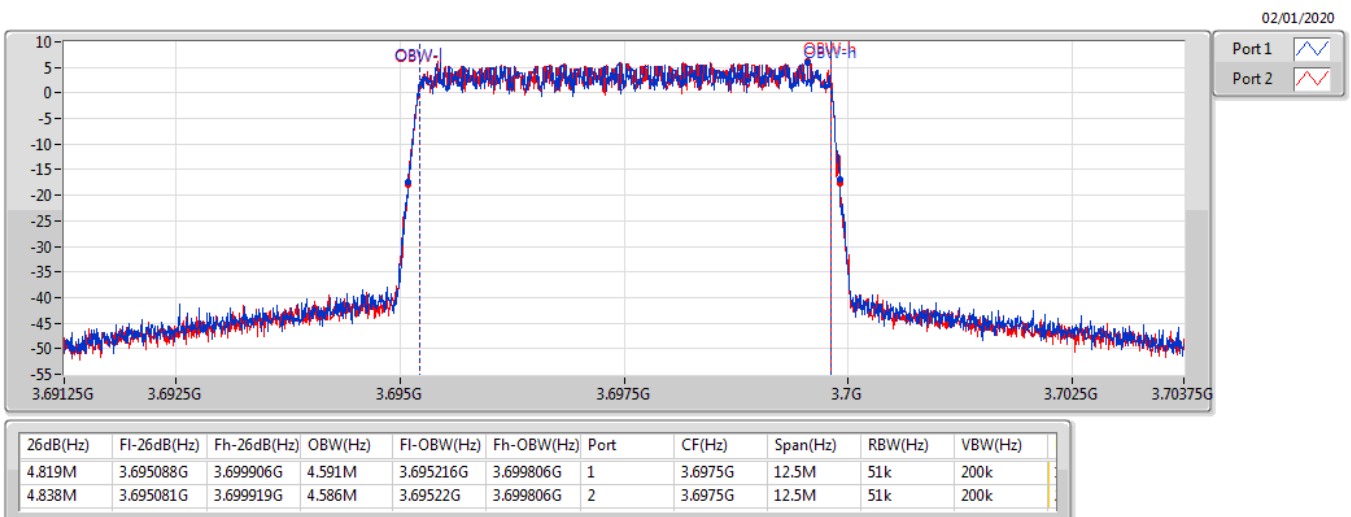
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz)  | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|---------|----------|---------|---------|
| 4.838M   | 3.695069G   | 3.699906G   | 4.586M  | 3.695217G  | 3.699804G  | 1    | 3.6975G | 12.5M    | 51k     | 200k    |
| 4.863M   | 3.695075G   | 3.699938G   | 4.582M  | 3.695221G  | 3.699803G  | 2    | 3.6975G | 12.5M    | 51k     | 200k    |

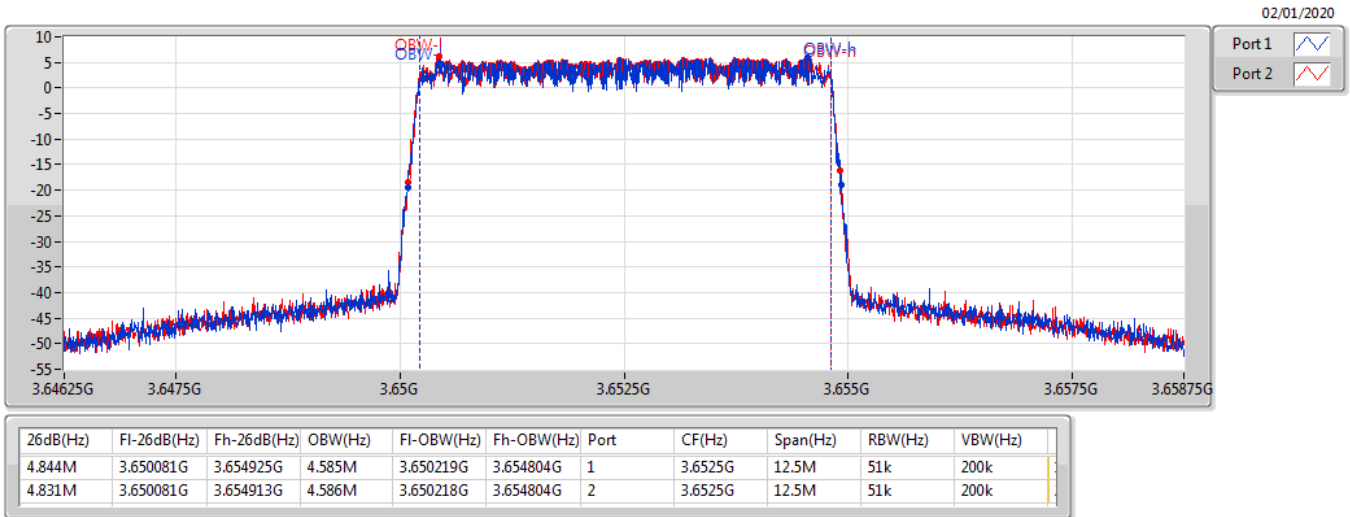
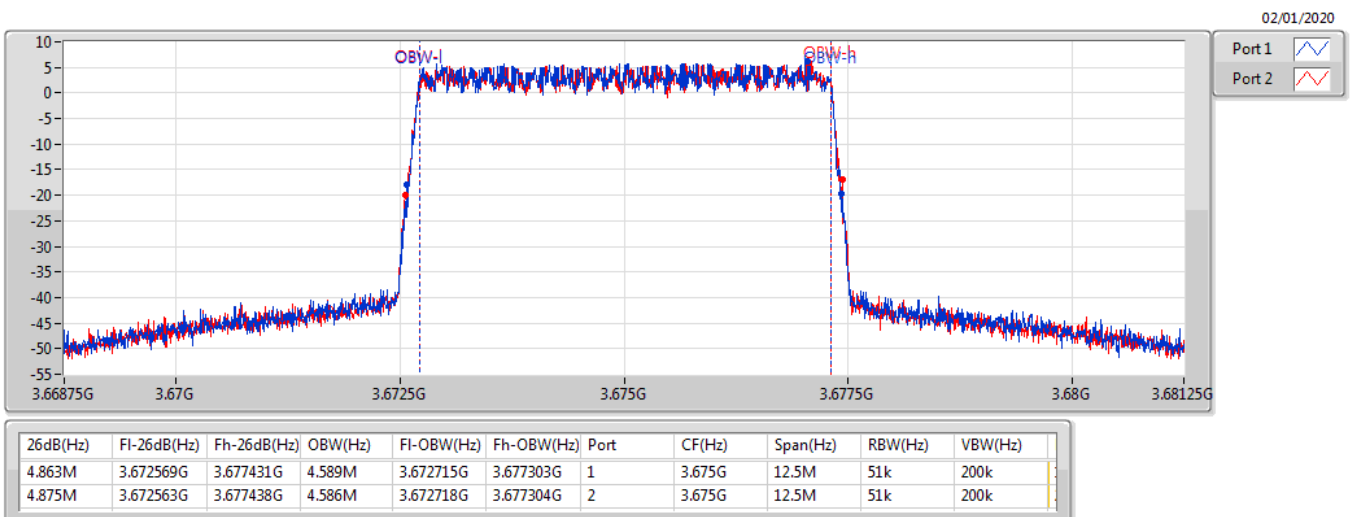
**Band 43\_5MHz\_2TX**
**EBW**
**3652.5MHz\_16QAM**

02/01/2020


Port 1  
Port 2

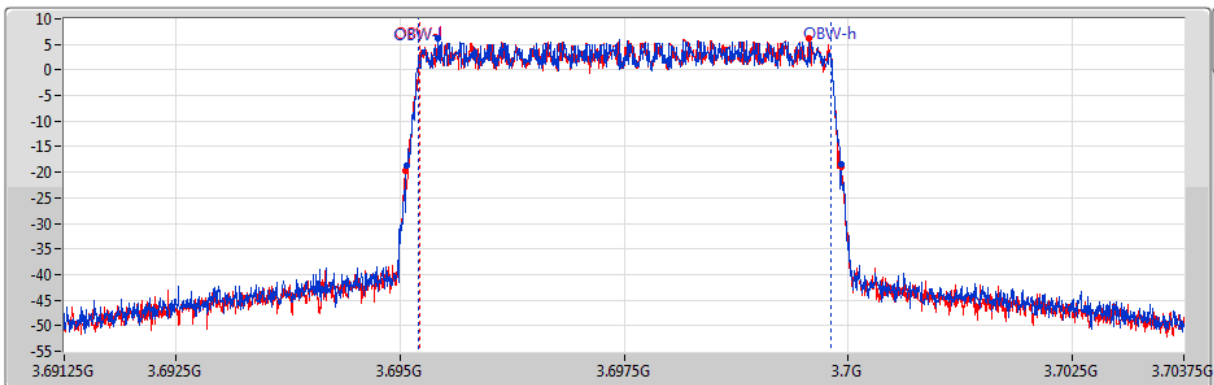
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz)  | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|---------|----------|---------|---------|
| 4.863M   | 3.650075G   | 3.654938G   | 4.583M  | 3.650218G  | 3.654801G  | 1    | 3.6525G | 12.5M    | 51k     | 200k    |
| 4.844M   | 3.650075G   | 3.654919G   | 4.592M  | 3.650215G  | 3.654807G  | 2    | 3.6525G | 12.5M    | 51k     | 200k    |

**Band 43\_5MHz\_2TX**
**EBW**
**3675MHz\_16QAM**

**Band 43\_5MHz\_2TX**
**EBW**
**3697.5MHz\_16QAM**


**Band 43\_5MHz\_2TX**
**EBW**
**3652.5MHz\_64QAM**

**Band 43\_5MHz\_2TX**
**EBW**
**3675MHz\_64QAM**


**Band 43\_5MHz\_2TX**
**EBW**
**3697.5MHz\_64QAM**

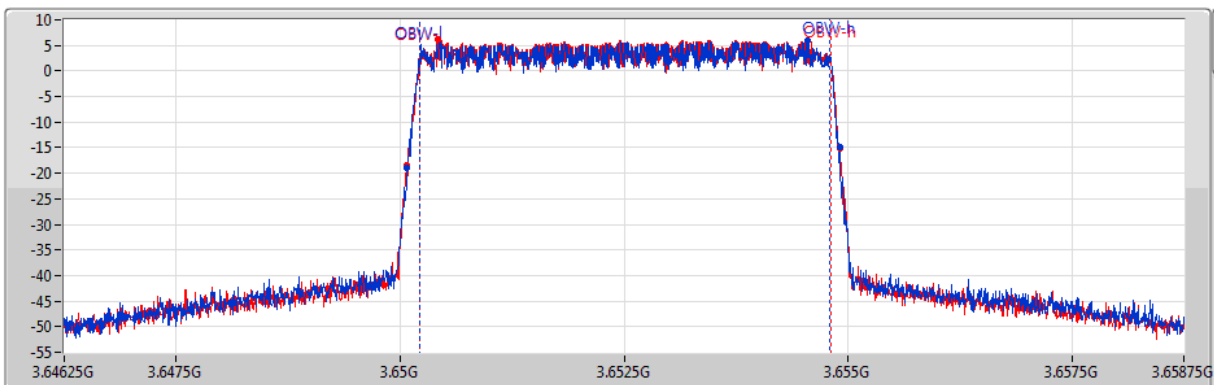
02/01/2020


Port 1  
Port 2

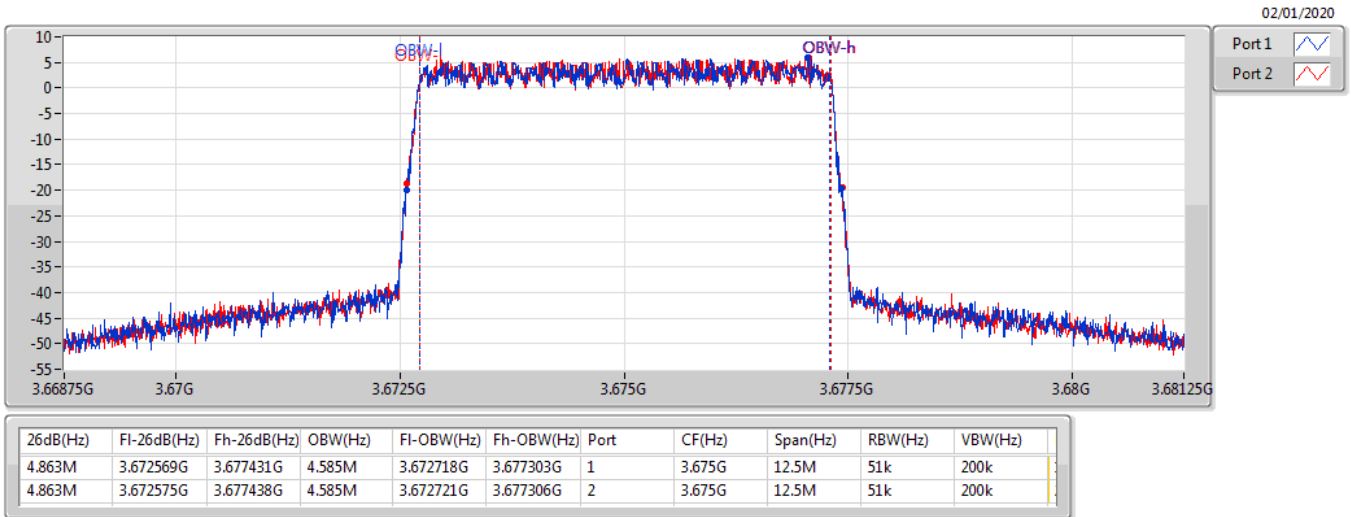
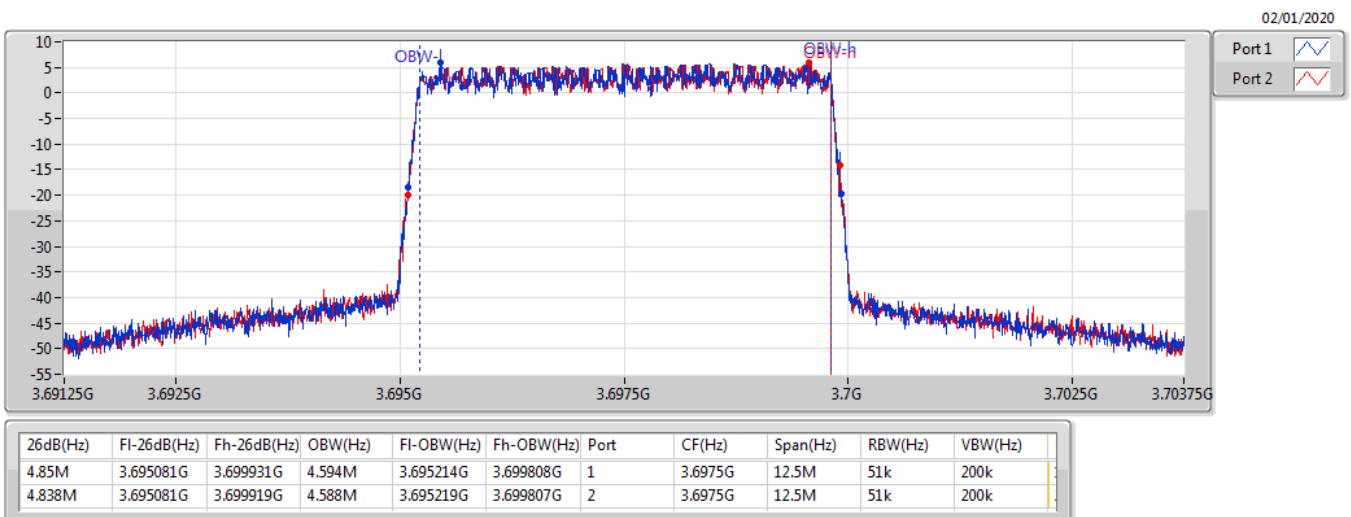
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz)  | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|---------|----------|---------|---------|
| 4.85M    | 3.695075G   | 3.699925G   | 4.597M  | 3.69521G   | 3.699807G  | 1    | 3.6975G | 12.5M    | 51k     | 200k    |
| 4.869M   | 3.695056G   | 3.699925G   | 4.588M  | 3.695219G  | 3.699807G  | 2    | 3.6975G | 12.5M    | 51k     | 200k    |

**Band 43\_5MHz\_2TX**
**EBW**
**3652.5MHz\_256QAM**

02/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz)  | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|---------|----------|---------|---------|
| 4.838M   | 3.650075G   | 3.654913G   | 4.587M  | 3.650216G  | 3.654803G  | 1    | 3.6525G | 12.5M    | 51k     | 200k    |
| 4.844M   | 3.650075G   | 3.654919G   | 4.587M  | 3.650218G  | 3.654805G  | 2    | 3.6525G | 12.5M    | 51k     | 200k    |

**Band 43\_5MHz\_2TX**
**EBW**
**3675MHz\_256QAM**

**Band 43\_5MHz\_2TX**
**EBW**
**3697.5MHz\_256QAM**


**For 10MHz and 40MHz:  
Summary**

| Mode             | Max-NdB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-NdB<br>(Hz) | Min-OBW<br>(Hz) |
|------------------|-----------------|-----------------|----------|-----------------|-----------------|
| Band 43          | -               | -               | -        | -               | -               |
| 10MHz_QPSK_2TX   | 9.75M           | 9.184M          | 9M18G7D  | 9.688M          | 9.173M          |
| 10MHz_16QAM_2TX  | 9.75M           | 9.184M          | 9M18W7D  | 9.7M            | 9.174M          |
| 10MHz_64QAM_2TX  | 9.75M           | 9.191M          | 9M19W7D  | 9.7M            | 9.178M          |
| 10MHz_256QAM_2TX | 9.75M           | 9.188M          | 9M19W7D  | 9.7M            | 9.179M          |
| 40MHz_QPSK_2TX   | 42.9M           | 36.996M         | 37M0G7D  | 42.45M          | 36.947M         |
| 40MHz_16QAM_2TX  | 42.8M           | 37.033M         | 37M0W7D  | 42.55M          | 36.98M          |
| 40MHz_64QAM_2TX  | 42.7M           | 37.004M         | 37M0W7D  | 42.45M          | 36.963M         |
| 40MHz_256QAM_2TX | 43.05M          | 37.054M         | 37M1W7D  | 42.35M          | 36.979M         |

**Max-N dB** = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

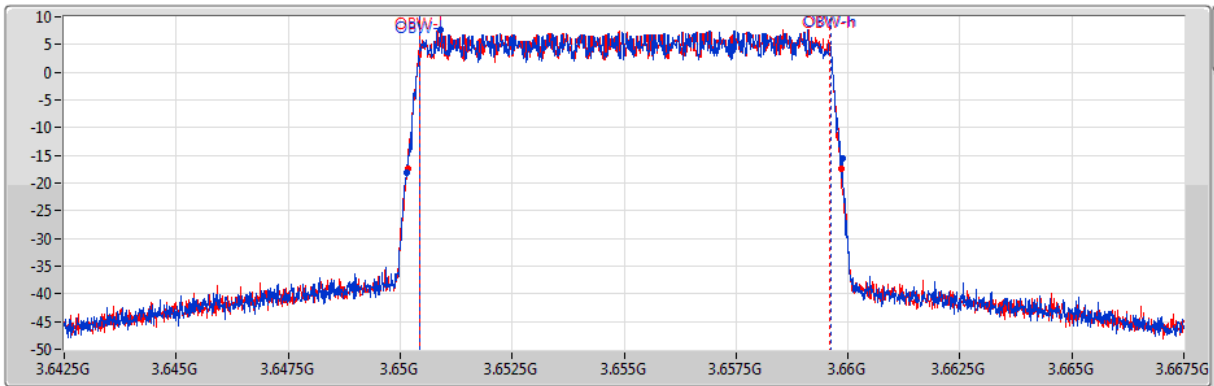
**Result**

| Mode                     | Result | Limit<br>(Hz) | Port 1-NdB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-NdB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------|--------|---------------|--------------------|--------------------|--------------------|--------------------|
| Band 43_10MHz_QPSK_2TX   | -      | -             | -                  | -                  | -                  | -                  |
| 3655MHz                  | Pass   | Inf           | 9.738M             | 9.175M             | 9.688M             | 9.177M             |
| 3675MHz                  | Pass   | Inf           | 9.7M               | 9.178M             | 9.688M             | 9.174M             |
| 3695MHz                  | Pass   | Inf           | 9.7M               | 9.173M             | 9.75M              | 9.184M             |
| Band 43_10MHz_16QAM_2TX  | -      | -             | -                  | -                  | -                  | -                  |
| 3655MHz                  | Pass   | Inf           | 9.725M             | 9.182M             | 9.7M               | 9.174M             |
| 3675MHz                  | Pass   | Inf           | 9.75M              | 9.182M             | 9.725M             | 9.177M             |
| 3695MHz                  | Pass   | Inf           | 9.725M             | 9.184M             | 9.7M               | 9.181M             |
| Band 43_10MHz_64QAM_2TX  | -      | -             | -                  | -                  | -                  | -                  |
| 3655MHz                  | Pass   | Inf           | 9.738M             | 9.183M             | 9.738M             | 9.178M             |
| 3675MHz                  | Pass   | Inf           | 9.75M              | 9.19M              | 9.7M               | 9.182M             |
| 3695MHz                  | Pass   | Inf           | 9.725M             | 9.191M             | 9.7M               | 9.181M             |
| Band 43_10MHz_256QAM_2TX | -      | -             | -                  | -                  | -                  | -                  |
| 3655MHz                  | Pass   | Inf           | 9.713M             | 9.179M             | 9.7M               | 9.188M             |
| 3675MHz                  | Pass   | Inf           | 9.738M             | 9.184M             | 9.713M             | 9.187M             |
| 3695MHz                  | Pass   | Inf           | 9.75M              | 9.185M             | 9.713M             | 9.185M             |
| Band 43_40MHz_QPSK_2TX   | -      | -             | -                  | -                  | -                  | -                  |
| 3670MHz                  | Pass   | Inf           | 42.75M             | 36.953M            | 42.8M              | 36.99M             |
| 3675MHz                  | Pass   | Inf           | 42.45M             | 36.947M            | 42.9M              | 36.996M            |
| 3680MHz                  | Pass   | Inf           | 42.75M             | 36.977M            | 42.8M              | 36.989M            |
| Band 43_40MHz_16QAM_2TX  | -      | -             | -                  | -                  | -                  | -                  |
| 3670MHz                  | Pass   | Inf           | 42.65M             | 36.98M             | 42.7M              | 37.033M            |
| 3675MHz                  | Pass   | Inf           | 42.8M              | 37.016M            | 42.65M             | 37.022M            |
| 3680MHz                  | Pass   | Inf           | 42.7M              | 36.983M            | 42.55M             | 37.024M            |
| Band 43_40MHz_64QAM_2TX  | -      | -             | -                  | -                  | -                  | -                  |
| 3670MHz                  | Pass   | Inf           | 42.7M              | 36.963M            | 42.45M             | 37.004M            |
| 3675MHz                  | Pass   | Inf           | 42.65M             | 36.965M            | 42.7M              | 36.982M            |
| 3680MHz                  | Pass   | Inf           | 42.6M              | 36.982M            | 42.65M             | 36.993M            |
| Band 43_40MHz_256QAM_2TX | -      | -             | -                  | -                  | -                  | -                  |
| 3670MHz                  | Pass   | Inf           | 42.7M              | 37.034M            | 42.85M             | 36.984M            |
| 3675MHz                  | Pass   | Inf           | 42.6M              | 36.979M            | 42.35M             | 37.029M            |
| 3680MHz                  | Pass   | Inf           | 42.75M             | 37.054M            | 43.05M             | 37.006M            |

**Port X-N dB** = Port X 26dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**Band 43\_10MHz\_2TX**
**EBW**
**3655MHz\_QPSK**

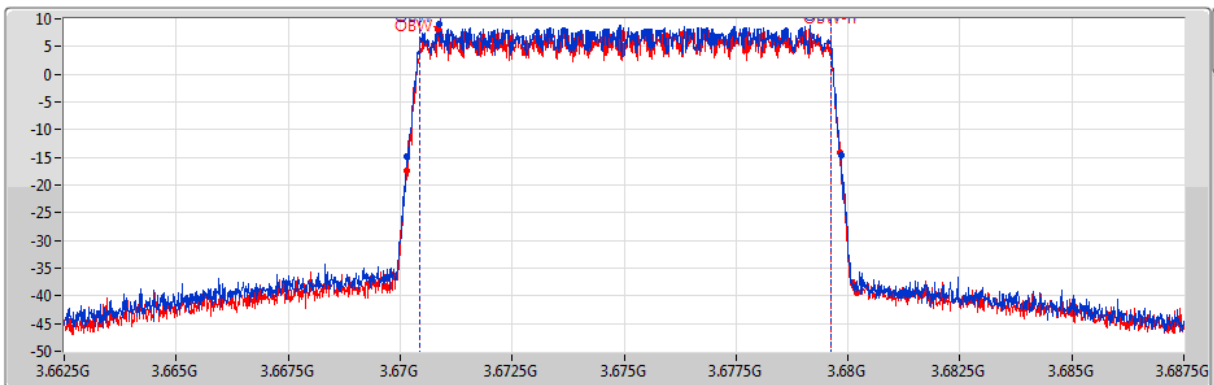
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.738M   | 3.650138G   | 3.659875G   | 9.175M  | 3.650434G  | 3.659609G  | 1    | 3.655G | 25M      | 100k    | 300k    |
| 9.688M   | 3.650163G   | 3.65985G    | 9.177M  | 3.650427G  | 3.659604G  | 2    | 3.655G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3675MHz\_QPSK**

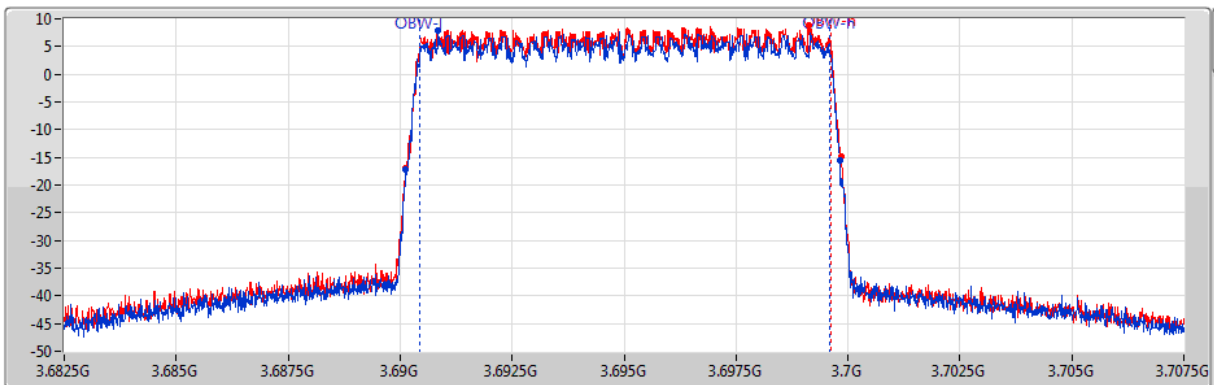
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.7M     | 3.67015G    | 3.67985G    | 9.178M  | 3.670431G  | 3.679609G  | 1    | 3.675G | 25M      | 100k    | 300k    |
| 9.688M   | 3.67015G    | 3.679838G   | 9.174M  | 3.670436G  | 3.679611G  | 2    | 3.675G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3695MHz\_QPSK**

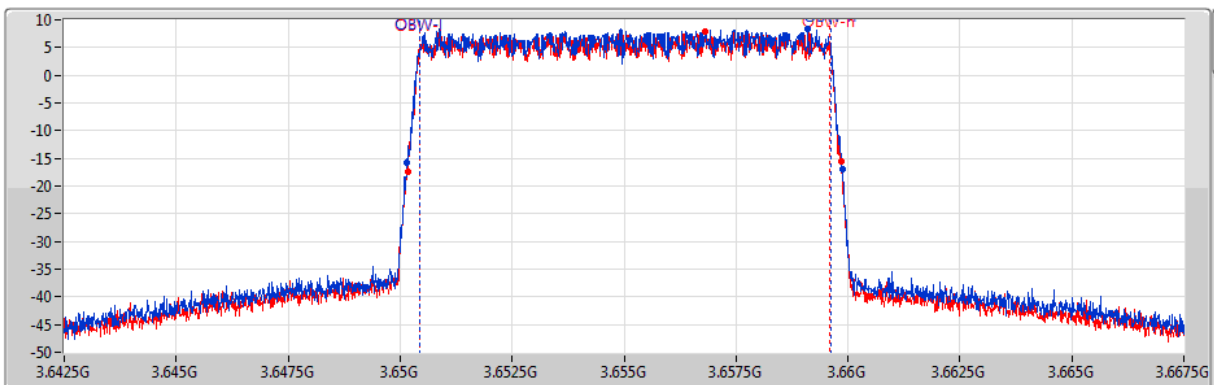
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.7M     | 3.690125G   | 3.699825G   | 9.173M  | 3.690433G  | 3.699606G  | 1    | 3.695G | 25M      | 100k    | 300k    |
| 9.75M    | 3.690113G   | 3.699863G   | 9.184M  | 3.690426G  | 3.699611G  | 2    | 3.695G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3655MHz\_16QAM**

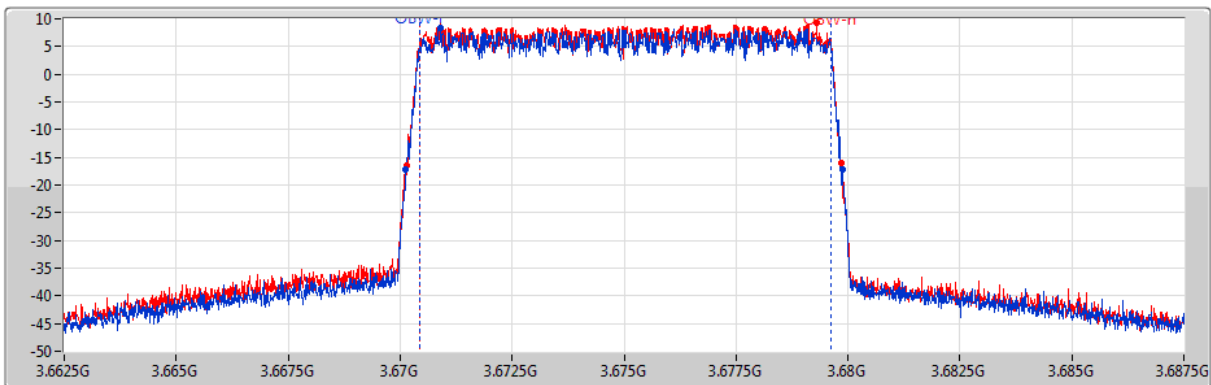
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.725M   | 3.65015G    | 3.659875G   | 9.182M  | 3.650426G  | 3.659608G  | 1    | 3.655G | 25M      | 100k    | 300k    |
| 9.7M     | 3.650163G   | 3.659863G   | 9.174M  | 3.650428G  | 3.659602G  | 2    | 3.655G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3675MHz\_16QAM**

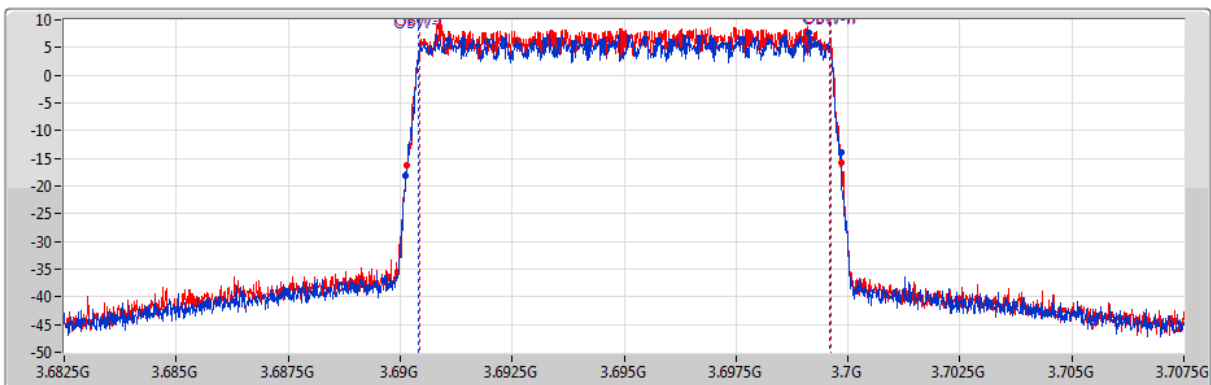
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.75M    | 3.670125G   | 3.679875G   | 9.182M  | 3.670431G  | 3.679613G  | 1    | 3.675G | 25M      | 100k    | 300k    |
| 9.725M   | 3.670138G   | 3.679863G   | 9.177M  | 3.670432G  | 3.679609G  | 2    | 3.675G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3695MHz\_16QAM**

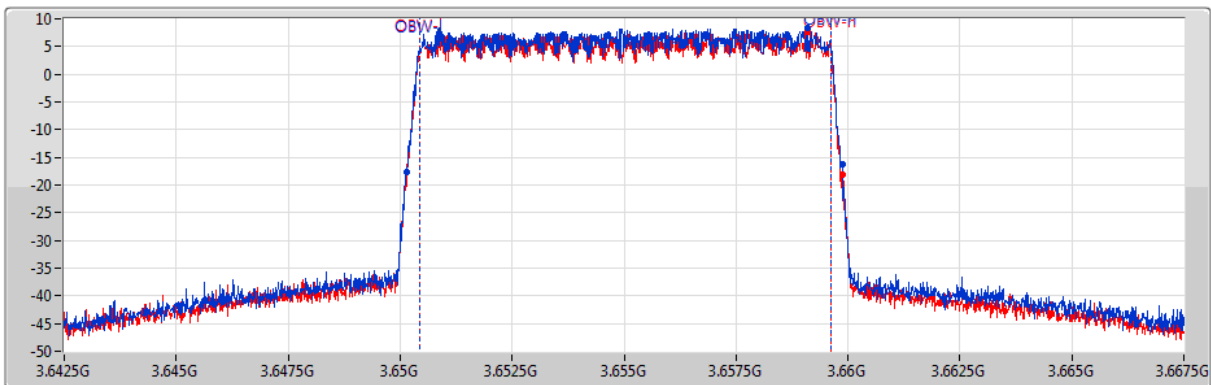
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.725M   | 3.690125G   | 3.699875G   | 9.184M  | 3.690422G  | 3.699606G  | 1    | 3.695G | 25M      | 100k    | 300k    |
| 9.7M     | 3.69015G    | 3.69985G    | 9.181M  | 3.690432G  | 3.699613G  | 2    | 3.695G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3655MHz\_64QAM**

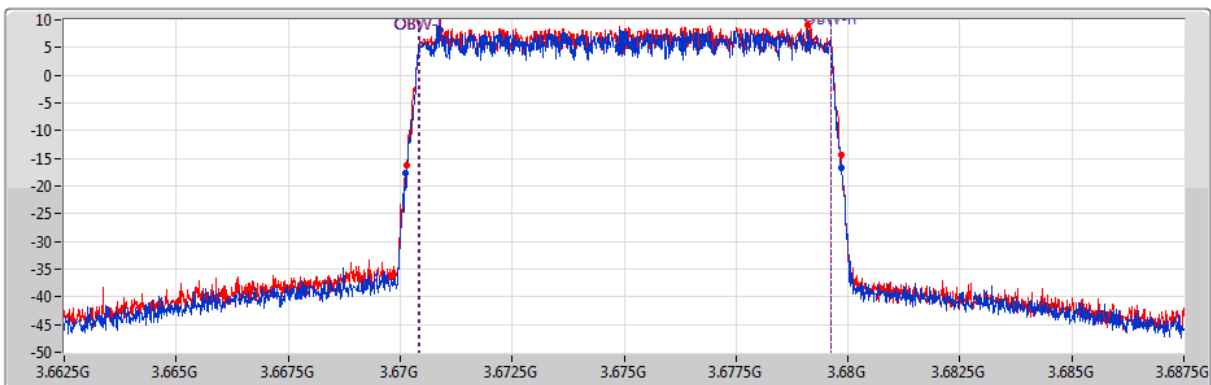
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.738M   | 3.650138G   | 3.659875G   | 9.183M  | 3.650429G  | 3.659612G  | 1    | 3.655G | 25M      | 100k    | 300k    |
| 9.738M   | 3.65015G    | 3.659888G   | 9.178M  | 3.65043G   | 3.659608G  | 2    | 3.655G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3675MHz\_64QAM**

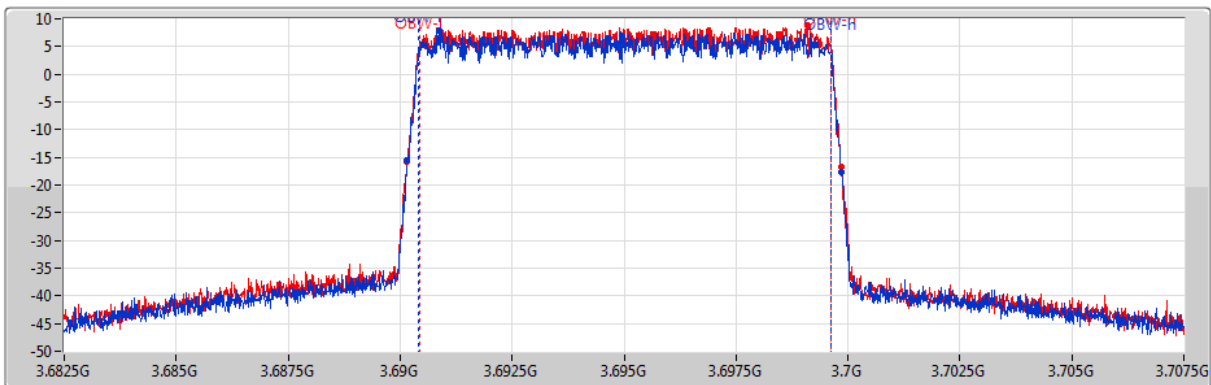
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.75M    | 3.670113G   | 3.679863G   | 9.19M   | 3.670422G  | 3.679611G  | 1    | 3.675G | 25M      | 100k    | 300k    |
| 9.7M     | 3.67015G    | 3.67985G    | 9.182M  | 3.670429G  | 3.679611G  | 2    | 3.675G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3695MHz\_64QAM**

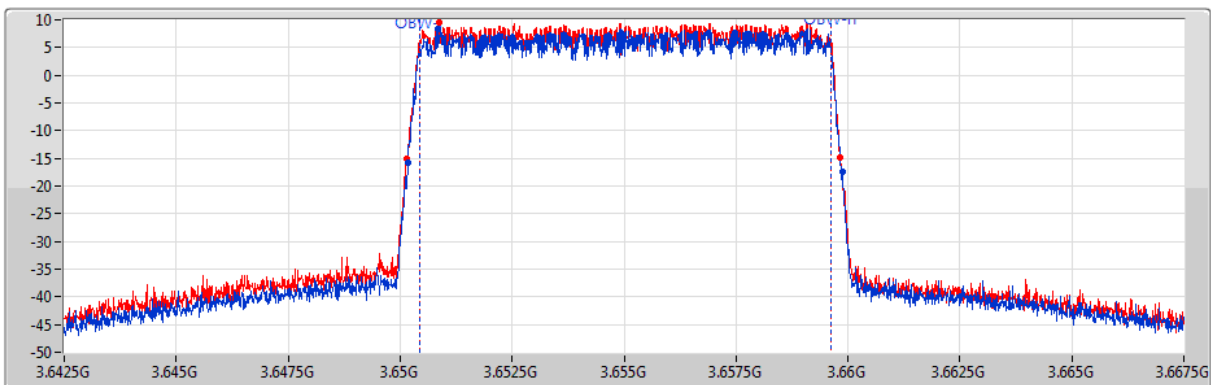
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.725M   | 3.690138G   | 3.699863G   | 9.191M  | 3.690421G  | 3.699612G  | 1    | 3.695G | 25M      | 100k    | 300k    |
| 9.7M     | 3.69015G    | 3.69985G    | 9.181M  | 3.690432G  | 3.699613G  | 2    | 3.695G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3655MHz\_256QAM**

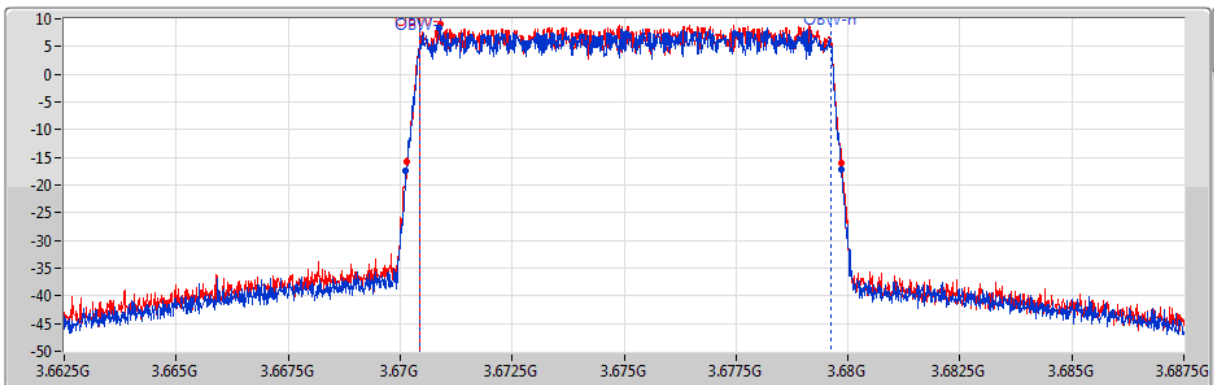
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.713M   | 3.650163G   | 3.659875G   | 9.179M  | 3.65043G   | 3.659609G  | 1    | 3.655G | 25M      | 100k    | 300k    |
| 9.7M     | 3.650138G   | 3.659838G   | 9.188M  | 3.650427G  | 3.659614G  | 2    | 3.655G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3675MHz\_256QAM**

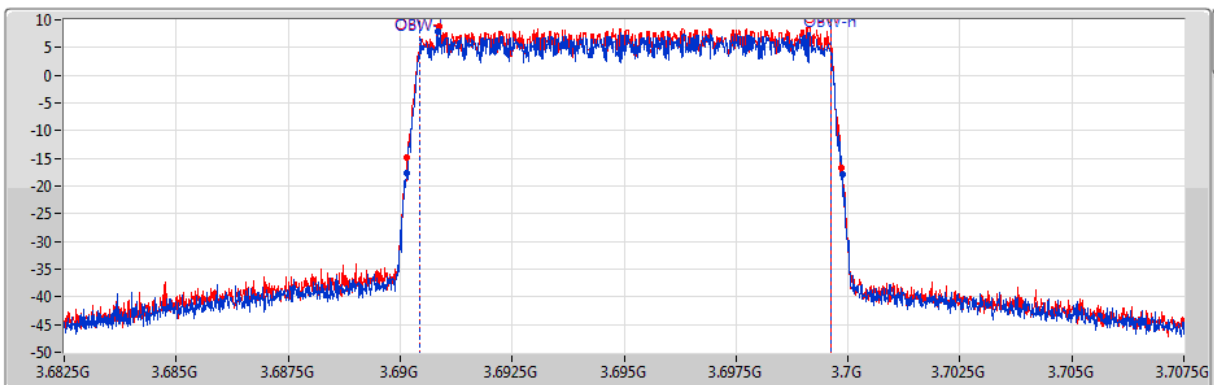
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.738M   | 3.670125G   | 3.679863G   | 9.184M  | 3.67043G   | 3.679614G  | 1    | 3.675G | 25M      | 100k    | 300k    |
| 9.713M   | 3.67015G    | 3.679863G   | 9.187M  | 3.670429G  | 3.679617G  | 2    | 3.675G | 25M      | 100k    | 300k    |

**Band 43\_10MHz\_2TX**
**EBW**
**3695MHz\_256QAM**

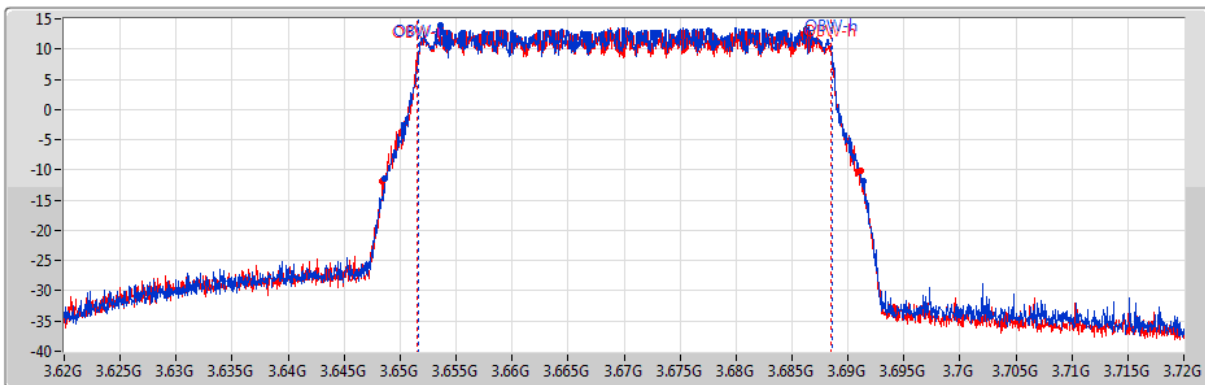
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 9.75M    | 3.690138G   | 3.699888G   | 9.185M  | 3.690429G  | 3.699613G  | 1    | 3.695G | 25M      | 100k    | 300k    |
| 9.713M   | 3.69015G    | 3.699863G   | 9.185M  | 3.690429G  | 3.699614G  | 2    | 3.695G | 25M      | 100k    | 300k    |

**Band 43\_40MHz\_2TX**
**EBW**
**3670MHz\_QPSK**

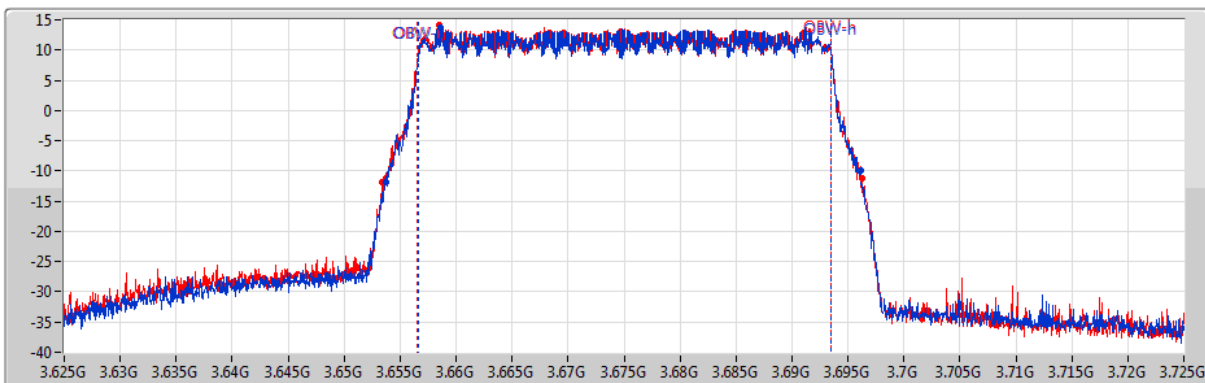
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.75M   | 3.64865G    | 3.6914G     | 36.953M | 3.65159G   | 3.688543G  | 1    | 3.67G  | 100M     | 500k    | 2M      |
| 42.8M    | 3.6484G     | 3.6912G     | 36.99M  | 3.651538G  | 3.688527G  | 2    | 3.67G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3675MHz\_QPSK**

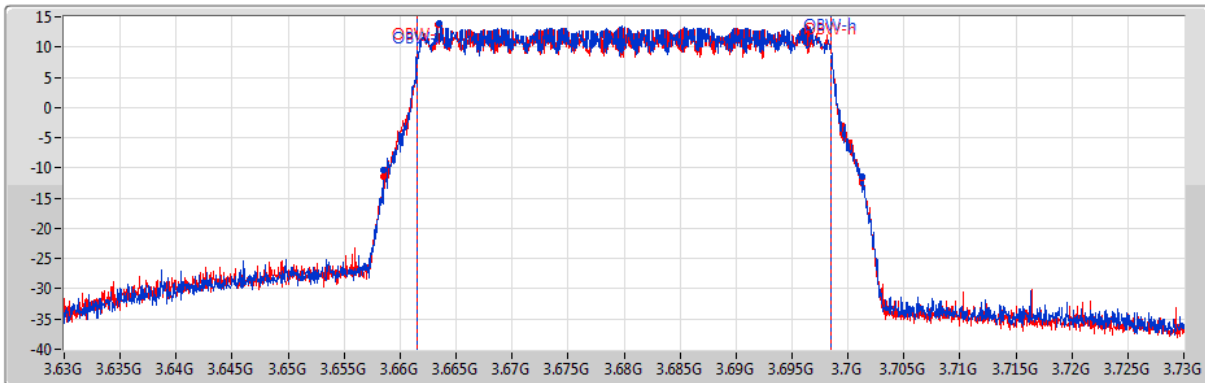
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.45M   | 3.6537G     | 3.69615G    | 36.947M | 3.656585G  | 3.693532G  | 1    | 3.675G | 100M     | 500k    | 2M      |
| 42.9M    | 3.6534G     | 3.6963G     | 36.996M | 3.656527G  | 3.693523G  | 2    | 3.675G | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3680MHz\_QPSK**

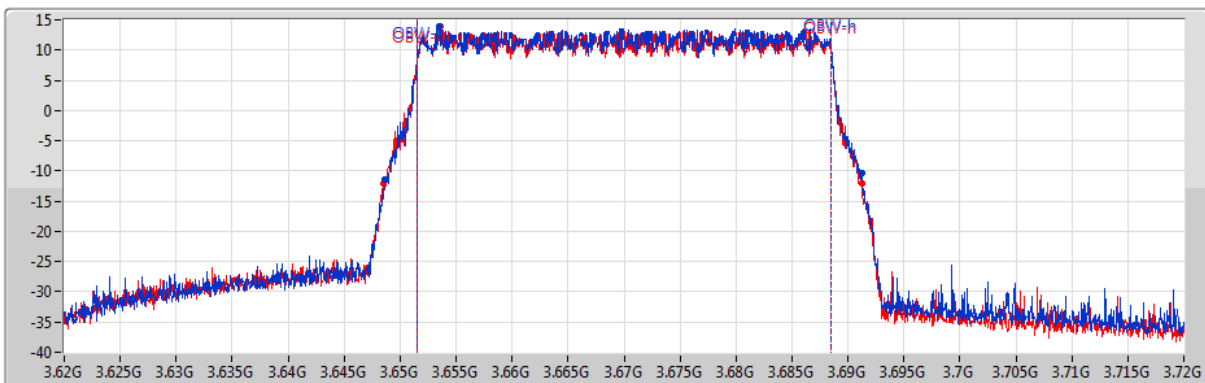
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.75M   | 3.65855G    | 3.7013G     | 36.977M | 3.66154G   | 3.698517G  | 1    | 3.68G  | 100M     | 500k    | 2M      |
| 42.8M    | 3.6585G     | 3.7013G     | 36.989M | 3.661549G  | 3.698538G  | 2    | 3.68G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3670MHz\_16QAM**

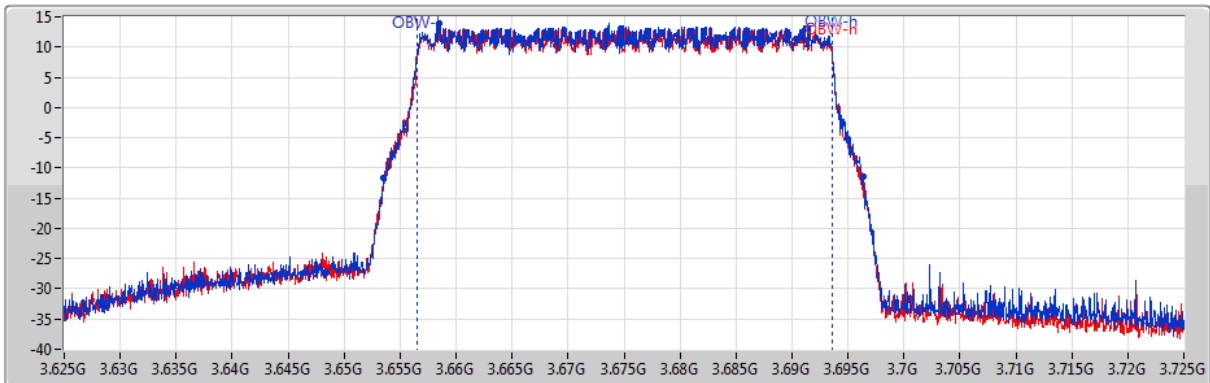
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.65M   | 3.6486G     | 3.69125G    | 36.98M  | 3.651552G  | 3.688533G  | 1    | 3.67G  | 100M     | 500k    | 2M      |
| 42.7M    | 3.64855G    | 3.69125G    | 37.033M | 3.651499G  | 3.688532G  | 2    | 3.67G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3675MHz\_16QAM**

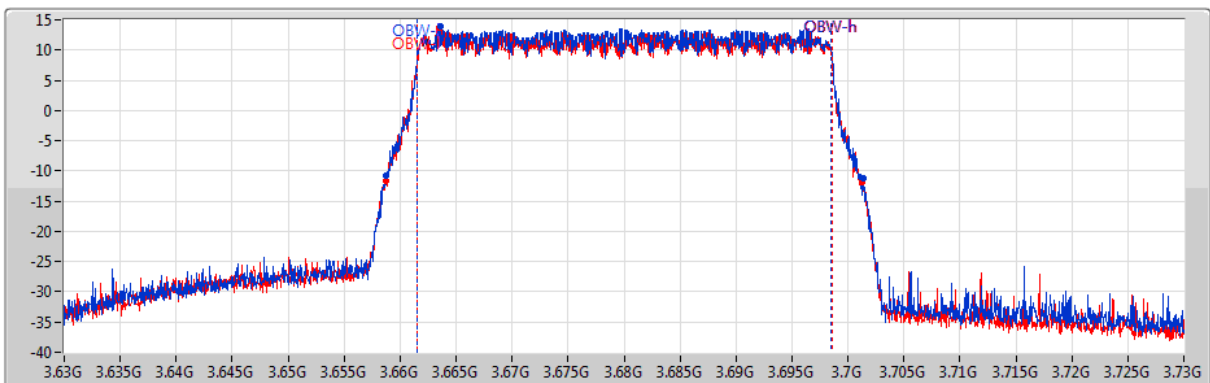
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.8M    | 3.65355G    | 3.69635G    | 37.016M | 3.656525G  | 3.693541G  | 1    | 3.675G | 100M     | 500k    | 2M      |
| 42.65M   | 3.6535G     | 3.69615G    | 37.022M | 3.656521G  | 3.693543G  | 2    | 3.675G | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3680MHz\_16QAM**

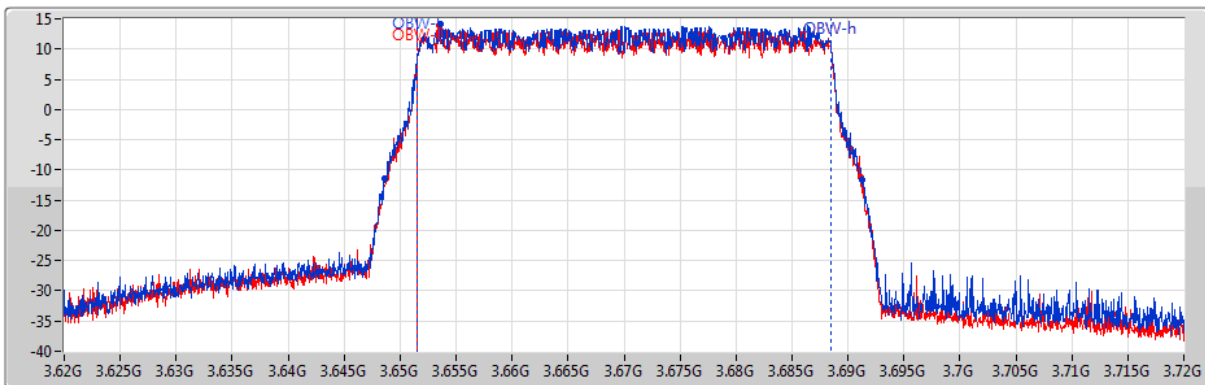
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.7M    | 3.6587G     | 3.7014G     | 36.983M | 3.661547G  | 3.69853G   | 1    | 3.68G  | 100M     | 500k    | 2M      |
| 42.55M   | 3.6587G     | 3.70125G    | 37.024M | 3.661518G  | 3.698541G  | 2    | 3.68G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3670MHz\_64QAM**

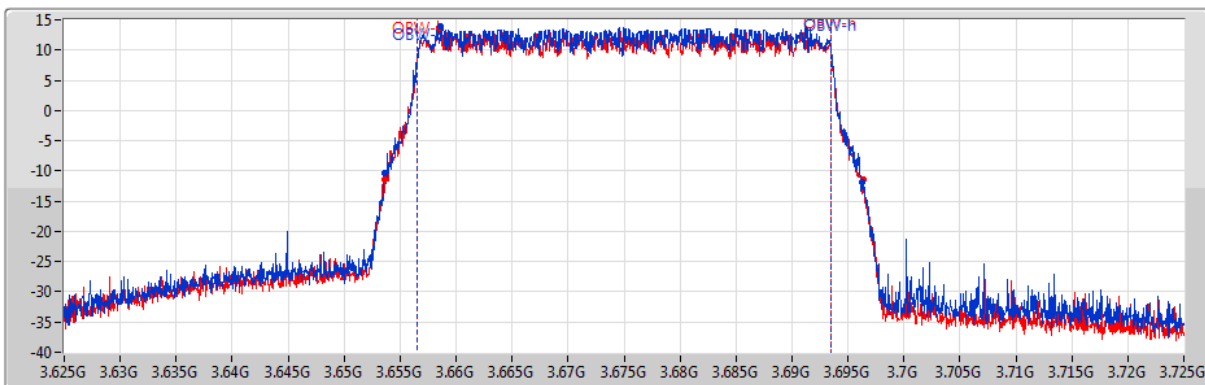
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.7M    | 3.6486G     | 3.6913G     | 36.963M | 3.651575G  | 3.688539G  | 1    | 3.67G  | 100M     | 500k    | 2M      |
| 42.45M   | 3.64875G    | 3.6912G     | 37.004M | 3.651531G  | 3.688535G  | 2    | 3.67G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3675MHz\_64QAM**

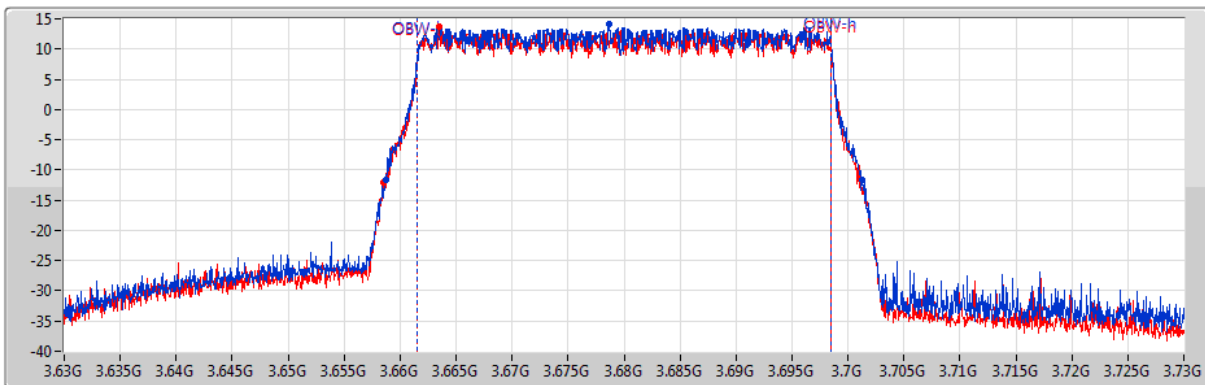
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.65M   | 3.6536G     | 3.69625G    | 36.965M | 3.656552G  | 3.693517G  | 1    | 3.675G | 100M     | 500k    | 2M      |
| 42.7M    | 3.65365G    | 3.69635G    | 36.982M | 3.65654G   | 3.693522G  | 2    | 3.675G | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3680MHz\_64QAM**

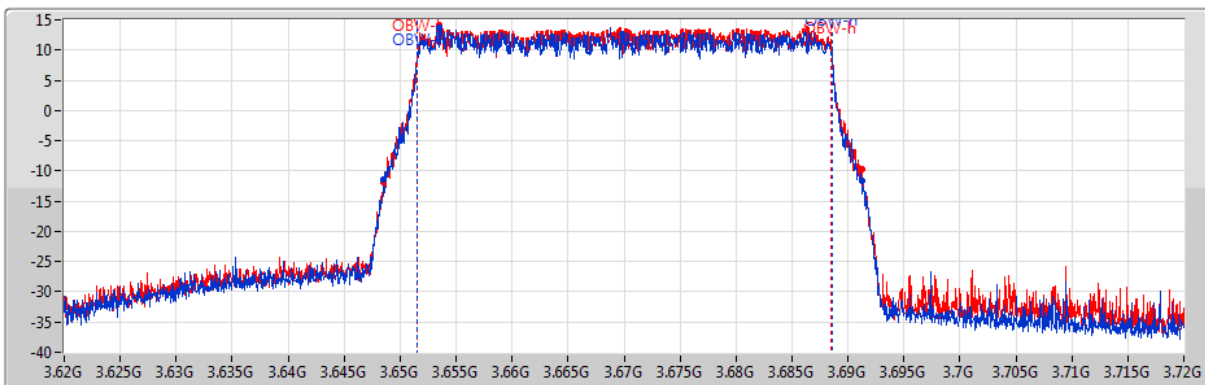
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.6M    | 3.6587G     | 3.7013G     | 36.982M | 3.661556G  | 3.698539G  | 1    | 3.68G  | 100M     | 500k    | 2M      |
| 42.65M   | 3.65855G    | 3.7012G     | 36.993M | 3.661543G  | 3.698535G  | 2    | 3.68G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3670MHz\_256QAM**

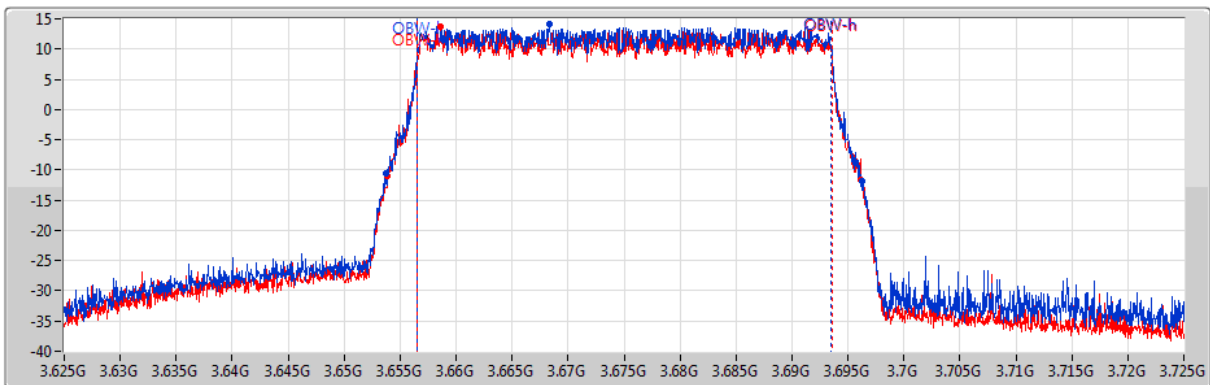
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.7M    | 3.64855G    | 3.69125G    | 37.034M | 3.651507G  | 3.688541G  | 1    | 3.67G  | 100M     | 500k    | 2M      |
| 42.85M   | 3.64845G    | 3.6913G     | 36.984M | 3.651542G  | 3.688526G  | 2    | 3.67G  | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3675MHz\_256QAM**

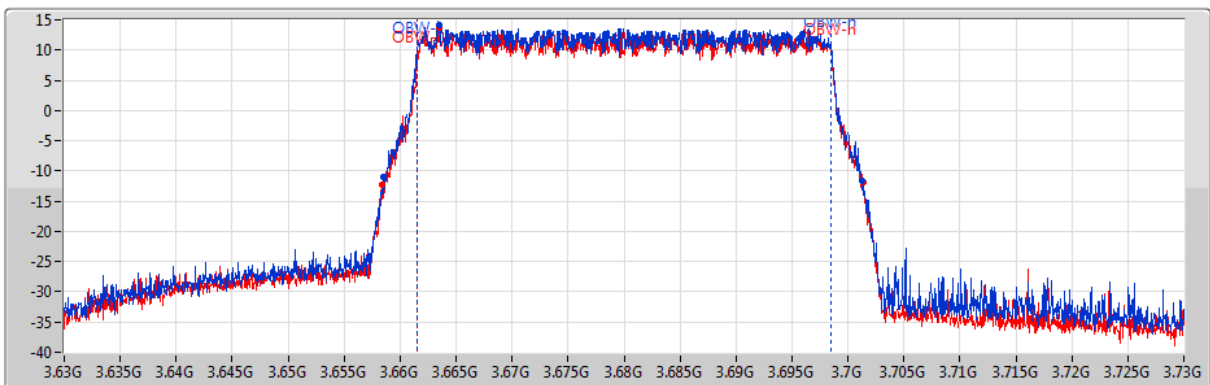
03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.6M    | 3.6537G     | 3.6963G     | 36.979M | 3.65655G   | 3.693529G  | 1    | 3.675G | 100M     | 500k    | 2M      |
| 42.35M   | 3.65385G    | 3.6962G     | 37.029M | 3.656514G  | 3.693544G  | 2    | 3.675G | 100M     | 500k    | 2M      |

**Band 43\_40MHz\_2TX**
**EBW**
**3680MHz\_256QAM**

03/01/2020


Port 1  
Port 2

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Port | CF(Hz) | Span(Hz) | RBW(Hz) | VBW(Hz) |
|----------|-------------|-------------|---------|------------|------------|------|--------|----------|---------|---------|
| 42.75M   | 3.6585G     | 3.70125G    | 37.054M | 3.661468G  | 3.698522G  | 1    | 3.68G  | 100M     | 500k    | 2M      |
| 43.05M   | 3.65835G    | 3.7014G     | 37.006M | 3.661533G  | 3.698539G  | 2    | 3.68G  | 100M     | 500k    | 2M      |



## Average Power Result

Appendix B.1

### For 5MHz: Summary

| Mode            | Power<br>(dBm) | Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|-----------------|----------------|--------------|---------------|-------------|
| Band 43         | -              | -            | -             | -           |
| 5MHz_QPSK_2TX   | 16.94          | 0.049        | 36.94         | 4.943       |
| 5MHz_16QAM_2TX  | 16.96          | 0.050        | 36.96         | 4.966       |
| 5MHz_64QAM_2TX  | 16.97          | 0.050        | 36.97         | 4.977       |
| 5MHz_256QAM_2TX | 16.98          | 0.050        | 36.98         | 4.989       |



## Average Power Result

## Appendix B.1

### Result

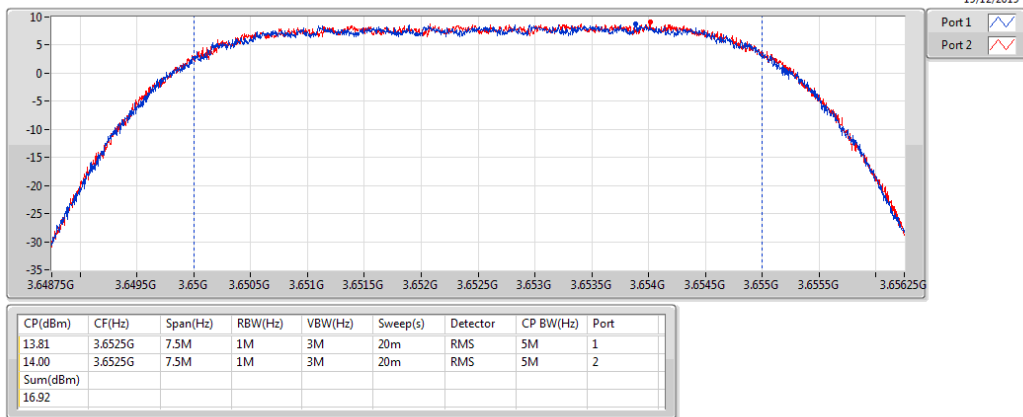
| Mode                    | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Power<br>(dBm) | Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) | EIRP Lim.<br>(W) |
|-------------------------|--------|-------------|-----------------|-----------------|----------------|--------------|---------------|-------------|------------------|
| Band 43_5MHz_QPSK_2TX   | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3652.5MHz               | Pass   | 20.00       | 13.81           | 14.00           | 16.92          | 0.049        | 36.92         | 4.92040     | 5                |
| 3675MHz                 | Pass   | 20.00       | 13.47           | 14.35           | 16.94          | 0.049        | 36.94         | 4.943       | 5                |
| 3697.5MHz               | Pass   | 20.00       | 13.68           | 14.09           | 16.90          | 0.049        | 36.90         | 4.898       | 5                |
| Band 43_5MHz_16QAM_2TX  | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3652.5MHz               | Pass   | 20.00       | 13.86           | 13.92           | 16.90          | 0.049        | 36.90         | 4.898       | 5                |
| 3675MHz                 | Pass   | 20.00       | 13.89           | 14.01           | 16.96          | 0.050        | 36.96         | 4.966       | 5                |
| 3697.5MHz               | Pass   | 20.00       | 13.70           | 13.98           | 16.85          | 0.048        | 36.85         | 4.842       | 5                |
| Band 43_5MHz_64QAM_2TX  | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3652.5MHz               | Pass   | 20.00       | 13.91           | 13.90           | 16.92          | 0.049        | 36.92         | 4.920       | 5                |
| 3675MHz                 | Pass   | 20.00       | 14.05           | 13.86           | 16.97          | 0.050        | 36.97         | 4.977       | 5                |
| 3697.5MHz               | Pass   | 20.00       | 13.79           | 14.07           | 16.94          | 0.049        | 36.94         | 4.943       | 5                |
| Band 43_5MHz_256QAM_2TX | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3652.5MHz               | Pass   | 20.00       | 13.91           | 13.89           | 16.91          | 0.049        | 36.91         | 4.909       | 5                |
| 3675MHz                 | Pass   | 20.00       | 13.91           | 13.72           | 16.83          | 0.048        | 36.83         | 4.819       | 5                |
| 3697.5MHz               | Pass   | 20.00       | 13.81           | 14.12           | 16.98          | 0.050        | 36.98         | 4.989       | 5                |

**DG** = Directional Gain; **Port n** = Port n output power

## Band 43\_5MHz\_2TX

3652.5MHz\_QPSK

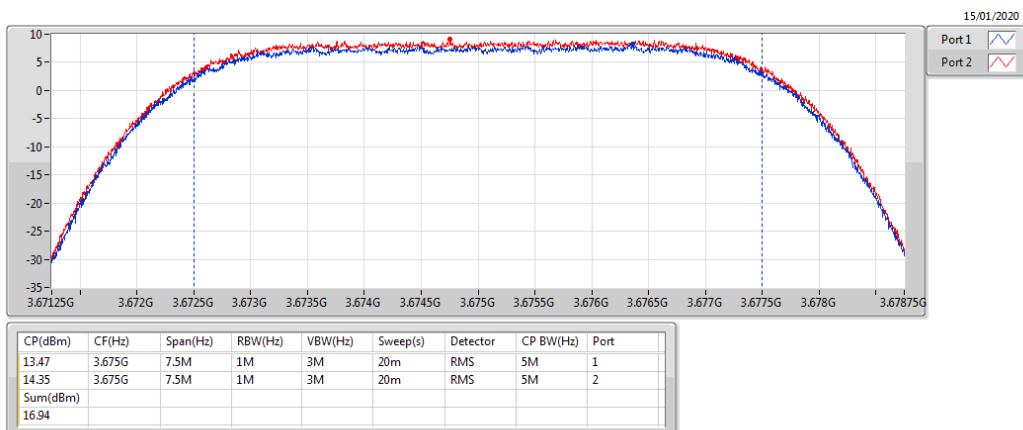
PowerAV



## Band 43\_5MHz\_2TX

3675MHz\_QPSK

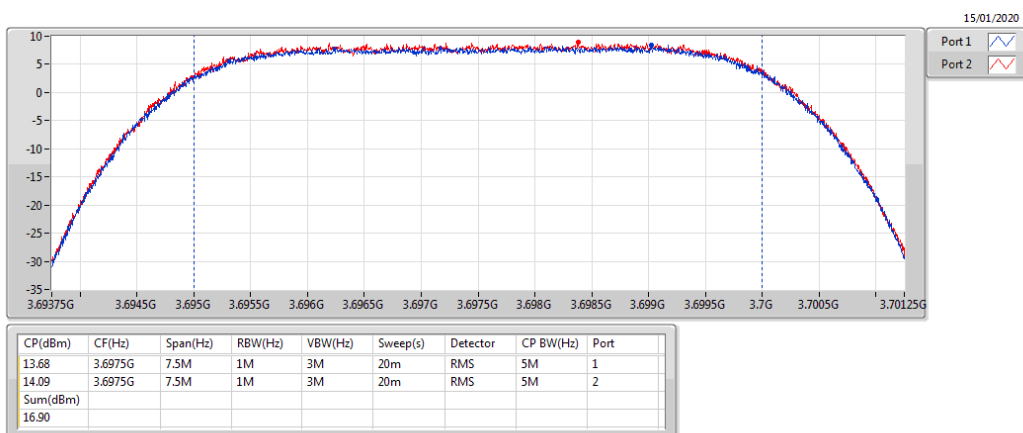
PowerAV



## Band 43\_5MHz\_2TX

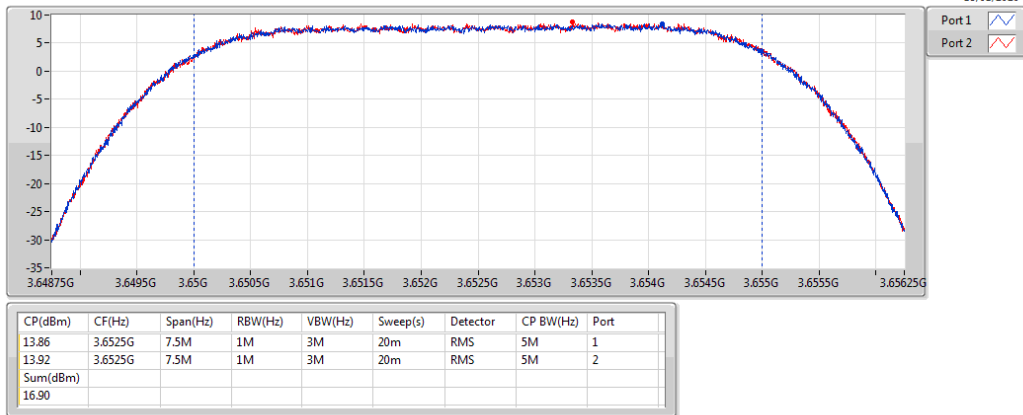
3697.5MHz\_QPSK

PowerAV



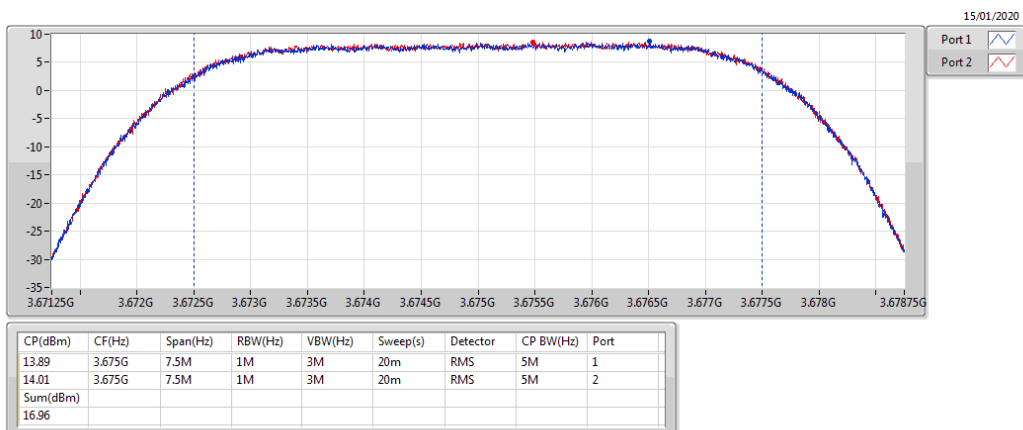
**Band 43\_5MHz\_2TX**  
**3652.5MHz\_16QAM**

**PowerAV**



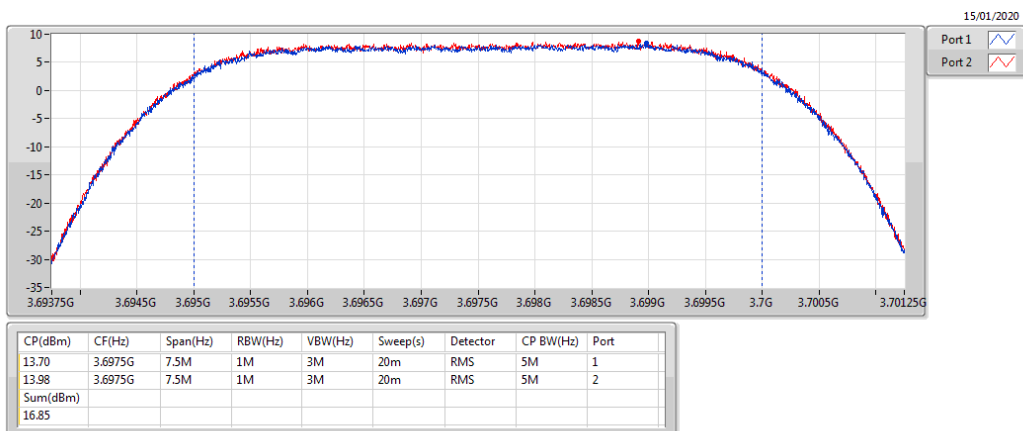
**Band 43\_5MHz\_2TX**  
**3675MHz\_16QAM**

**PowerAV**



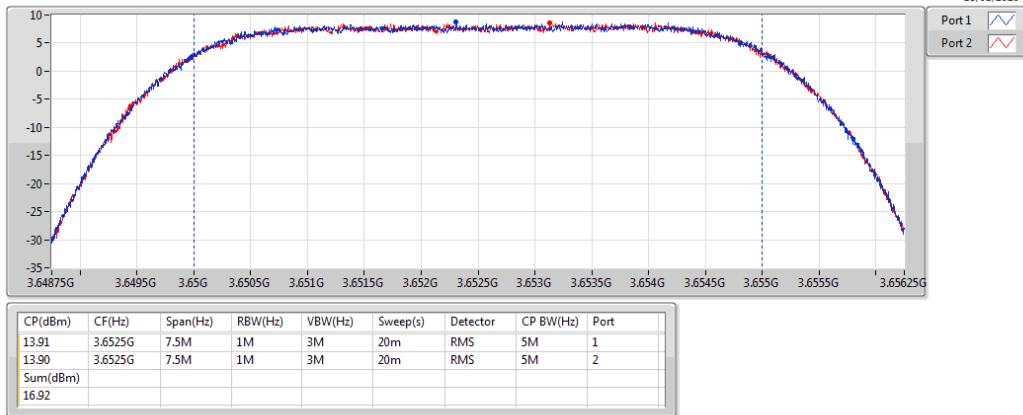
**Band 43\_5MHz\_2TX**  
**3697.5MHz\_16QAM**

**PowerAV**



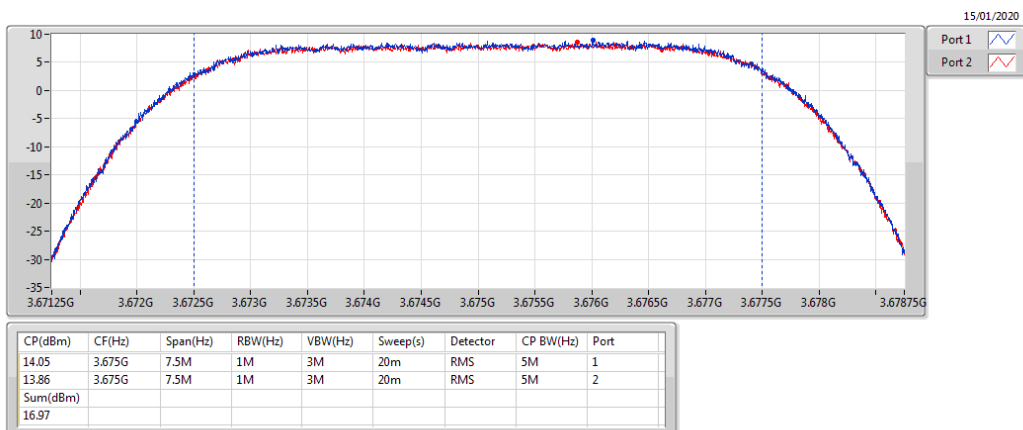
## Band 43\_5MHz\_2TX 3652.5MHz\_64QAM

PowerAV



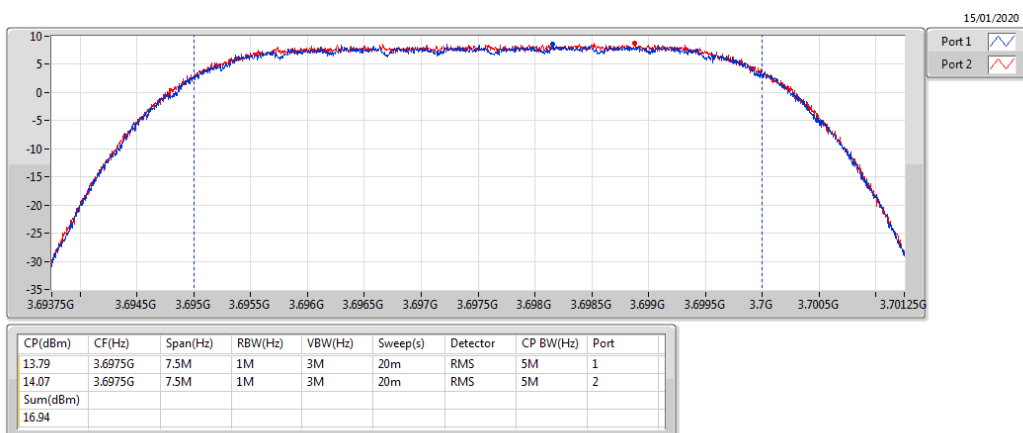
## Band 43\_5MHz\_2TX 3675MHz\_64QAM

PowerAV



## Band 43\_5MHz\_2TX 3697.5MHz\_64QAM

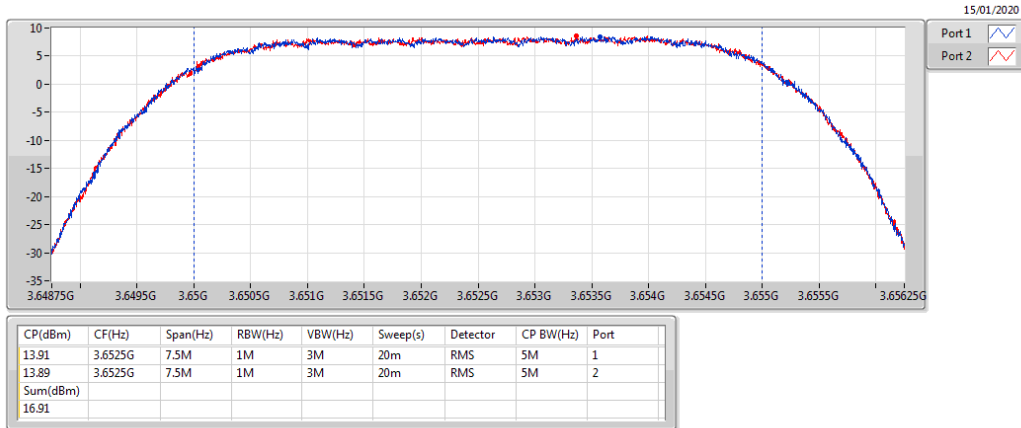
PowerAV



Band 43\_5MHz\_2TX

3652.5MHz\_256QAM

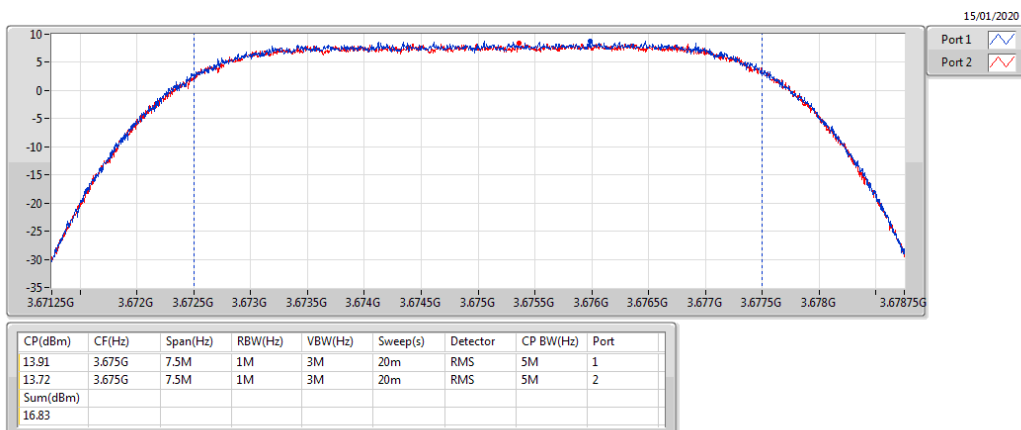
PowerAV



Band 43\_5MHz\_2TX

3675MHz\_256QAM

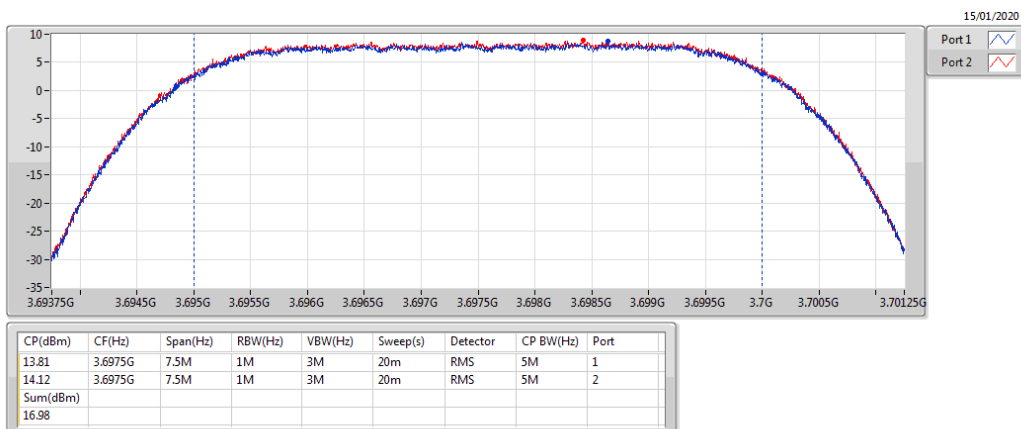
PowerAV



Band 43\_5MHz\_2TX

3697.5MHz\_256QAM

PowerAV





## Average Power Result

Appendix B.1

### For 10MHz and 40MHz: Summary

| Mode             | Power<br>(dBm) | Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|------------------|----------------|--------------|---------------|-------------|
| Band 43          | -              | -            | -             | -           |
| 10MHz_QPSK_2TX   | 19.84          | 0.096        | 39.84         | 9.638       |
| 10MHz_16QAM_2TX  | 19.96          | 0.099        | 39.96         | 9.908       |
| 10MHz_64QAM_2TX  | 19.93          | 0.098        | 39.93         | 9.840       |
| 10MHz_256QAM_2TX | 19.88          | 0.097        | 39.88         | 9.727       |
| 40MHz_QPSK_2TX   | 23.96          | 0.249        | 43.96         | 24.889      |
| 40MHz_16QAM_2TX  | 23.83          | 0.242        | 43.83         | 24.155      |
| 40MHz_64QAM_2TX  | 23.94          | 0.248        | 43.94         | 24.774      |
| 40MHz_256QAM_2TX | 23.84          | 0.242        | 43.84         | 24.210      |



## Average Power Result

## Appendix B.1

### Result

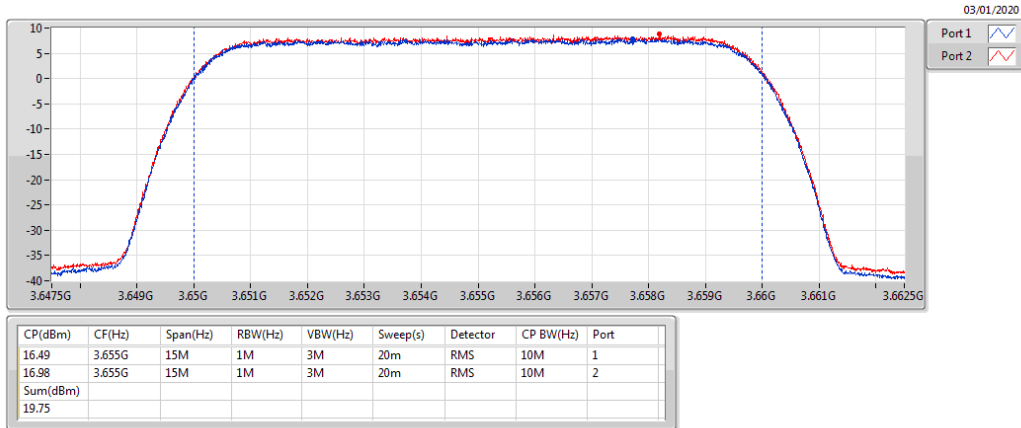
| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Power<br>(dBm) | Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) | EIRP Lim.<br>(W) |
|--------------------------|--------|-------------|-----------------|-----------------|----------------|--------------|---------------|-------------|------------------|
| Band 43_10MHz_QPSK_2TX   | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3655MHz                  | Pass   | 20.00       | 16.49           | 16.98           | 19.75          | 0.094        | 39.75         | 9.441       | 10               |
| 3675MHz                  | Pass   | 20.00       | 17.01           | 16.65           | 19.84          | 0.096        | 39.84         | 9.638       | 10               |
| 3695MHz                  | Pass   | 20.00       | 16.84           | 16.33           | 19.60          | 0.091        | 39.60         | 9.120       | 10               |
| Band 43_10MHz_16QAM_2TX  | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3655MHz                  | Pass   | 20.00       | 16.66           | 17.22           | 19.96          | 0.099        | 39.96         | 9.908       | 10               |
| 3675MHz                  | Pass   | 20.00       | 16.85           | 16.64           | 19.76          | 0.095        | 39.76         | 9.462       | 10               |
| 3695MHz                  | Pass   | 20.00       | 16.73           | 16.67           | 19.71          | 0.094        | 39.71         | 9.354       | 10               |
| Band 43_10MHz_64QAM_2TX  | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3655MHz                  | Pass   | 20.00       | 16.62           | 17.20           | 19.93          | 0.098        | 39.93         | 9.840       | 10               |
| 3675MHz                  | Pass   | 20.00       | 16.88           | 16.71           | 19.81          | 0.096        | 39.81         | 9.572       | 10               |
| 3695MHz                  | Pass   | 20.00       | 16.74           | 16.66           | 19.71          | 0.094        | 39.71         | 9.354       | 10               |
| Band 43_10MHz_256QAM_2TX | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3655MHz                  | Pass   | 20.00       | 16.56           | 17.16           | 19.88          | 0.097        | 39.88         | 9.727       | 10               |
| 3675MHz                  | Pass   | 20.00       | 16.72           | 16.78           | 19.76          | 0.095        | 39.76         | 9.462       | 10               |
| 3695MHz                  | Pass   | 20.00       | 16.64           | 16.73           | 19.70          | 0.093        | 39.70         | 9.333       | 10               |
| Band 43_40MHz_QPSK_2TX   | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 20.76           | 21.08           | 23.93          | 0.247        | 43.93         | 24.717      | 25               |
| 3675MHz                  | Pass   | 20.00       | 21.01           | 20.88           | 23.96          | 0.249        | 43.96         | 24.889      | 25               |
| 3680MHz                  | Pass   | 20.00       | 20.72           | 20.85           | 23.80          | 0.240        | 43.80         | 23.988      | 25               |
| Band 43_40MHz_16QAM_2TX  | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 20.64           | 20.99           | 23.83          | 0.242        | 43.83         | 24.155      | 25               |
| 3675MHz                  | Pass   | 20.00       | 20.60           | 21.00           | 23.81          | 0.240        | 43.81         | 24.044      | 25               |
| 3680MHz                  | Pass   | 20.00       | 20.56           | 20.94           | 23.76          | 0.238        | 43.76         | 23.768      | 25               |
| Band 43_40MHz_64QAM_2TX  | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 20.62           | 21.21           | 23.94          | 0.248        | 43.94         | 24.774      | 25               |
| 3675MHz                  | Pass   | 20.00       | 20.53           | 21.18           | 23.88          | 0.244        | 43.88         | 24.434      | 25               |
| 3680MHz                  | Pass   | 20.00       | 20.46           | 21.11           | 23.81          | 0.240        | 43.81         | 24.044      | 25               |
| Band 43_40MHz_256QAM_2TX | -      | -           | -               | -               | -              | -            | -             | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 20.44           | 21.04           | 23.76          | 0.238        | 43.76         | 23.768      | 25               |
| 3675MHz                  | Pass   | 20.00       | 20.37           | 21.19           | 23.81          | 0.240        | 43.81         | 24.044      | 25               |
| 3680MHz                  | Pass   | 20.00       | 20.49           | 21.14           | 23.84          | 0.242        | 43.84         | 24.210      | 25               |

**DG** = Directional Gain; **Port n** = Port n output power

## Band 43\_10MHz\_2TX

3655MHz\_QPSK

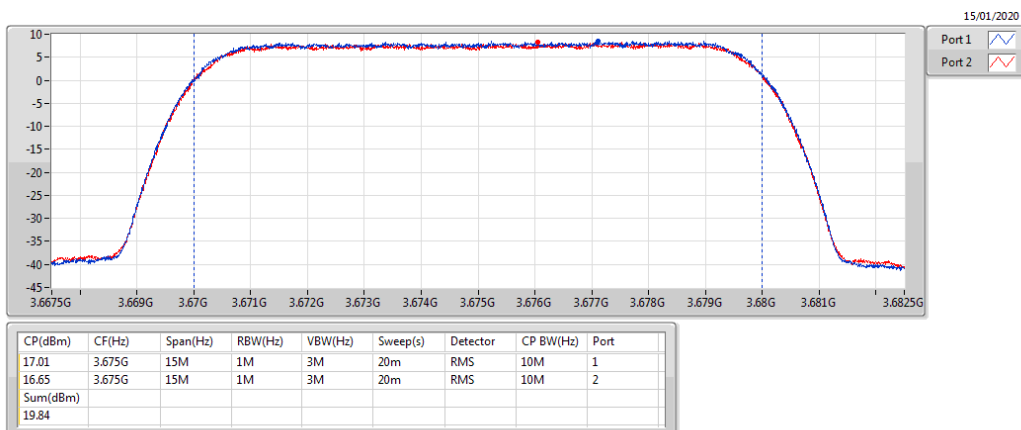
PowerAV



## Band 43\_10MHz\_2TX

3675MHz\_QPSK

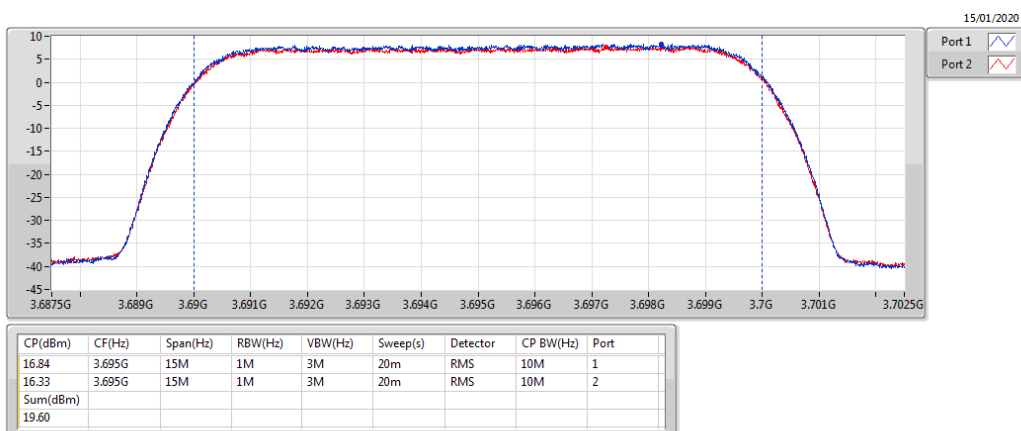
PowerAV



## Band 43\_10MHz\_2TX

3695MHz\_QPSK

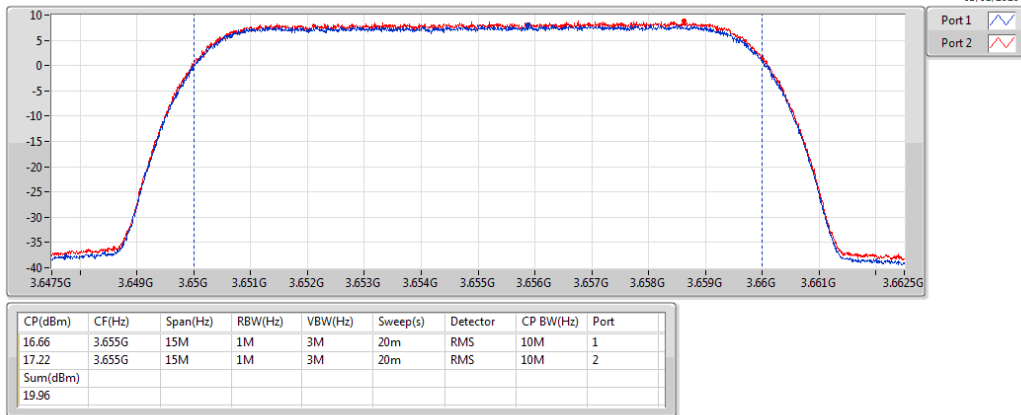
PowerAV



## Band 43\_10MHz\_2TX

3655MHz\_16QAM

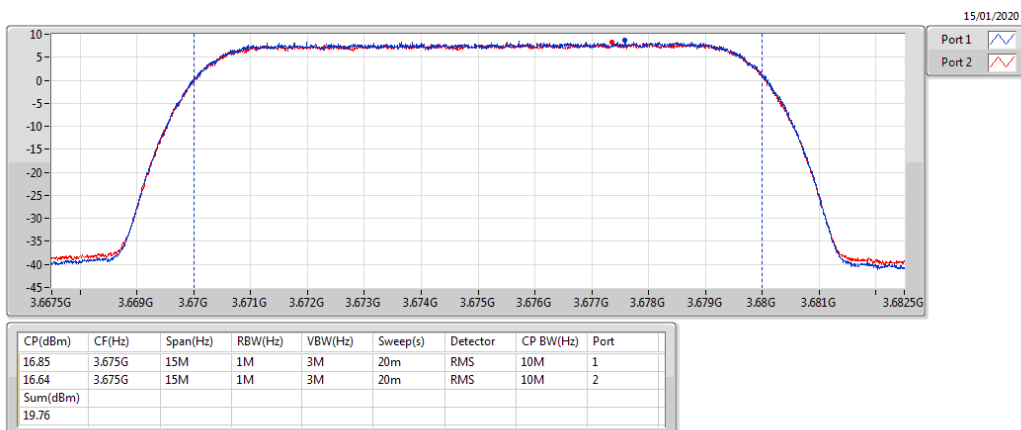
PowerAV



## Band 43\_10MHz\_2TX

3675MHz\_16QAM

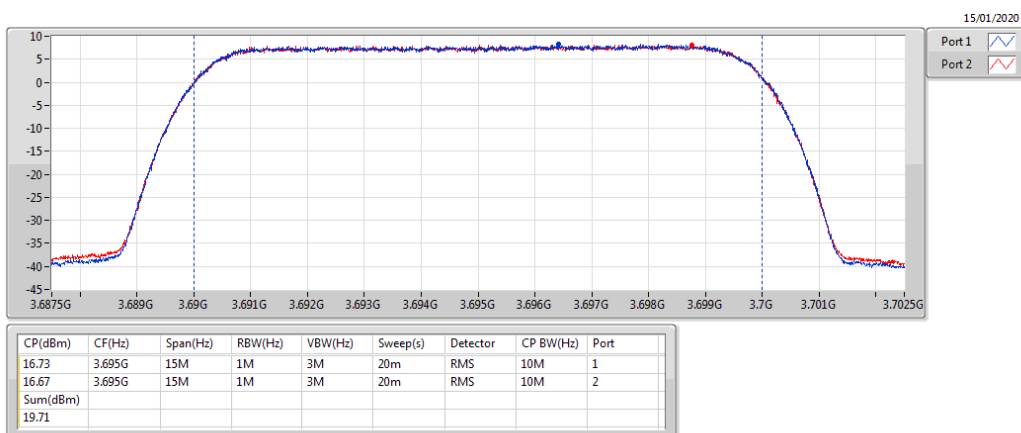
PowerAV



## Band 43\_10MHz\_2TX

3695MHz\_16QAM

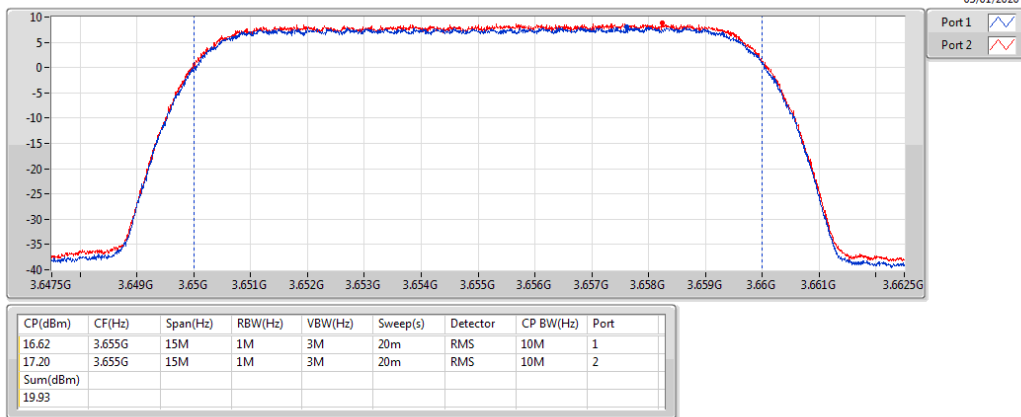
PowerAV



## Band 43\_10MHz\_2TX

3655MHz\_64QAM

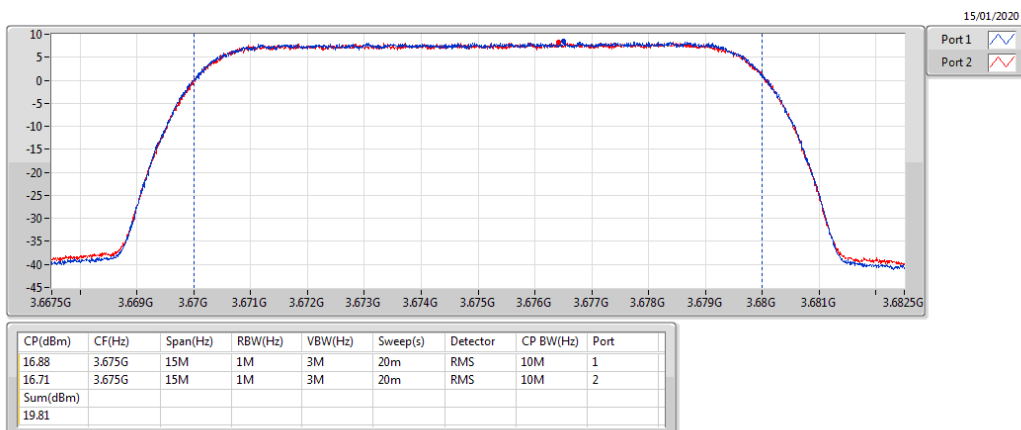
PowerAV



## Band 43\_10MHz\_2TX

3675MHz\_64QAM

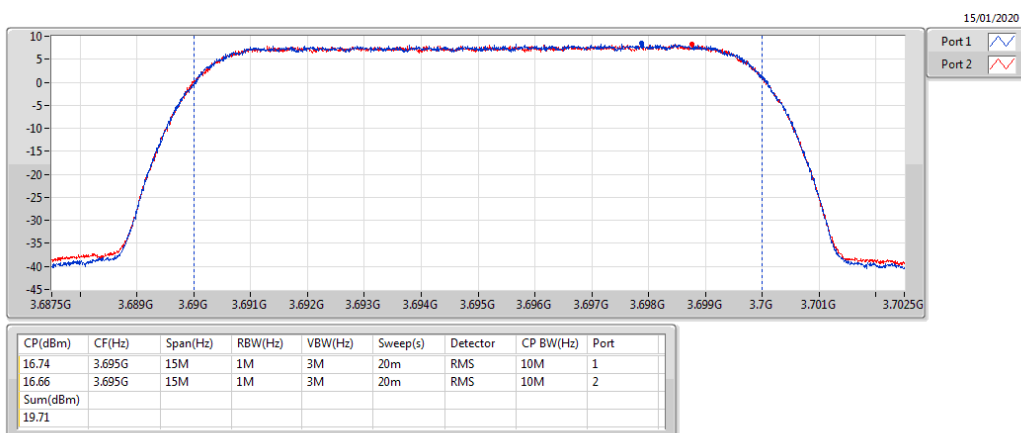
PowerAV



## Band 43\_10MHz\_2TX

3695MHz\_64QAM

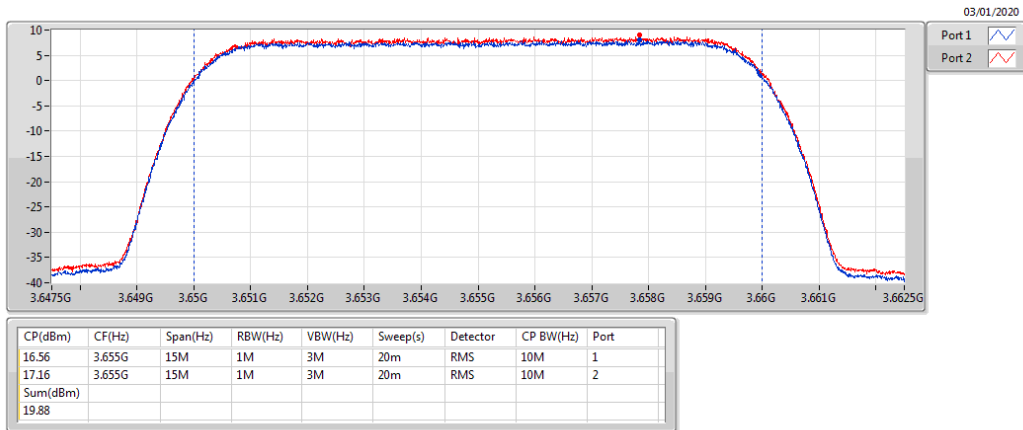
PowerAV



## Band 43\_10MHz\_2TX

3655MHz\_256QAM

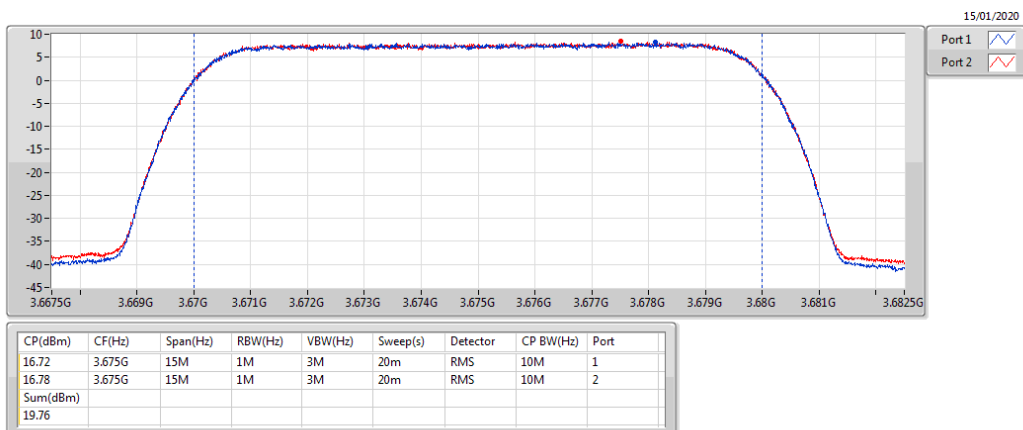
PowerAV



## Band 43\_10MHz\_2TX

3675MHz\_256QAM

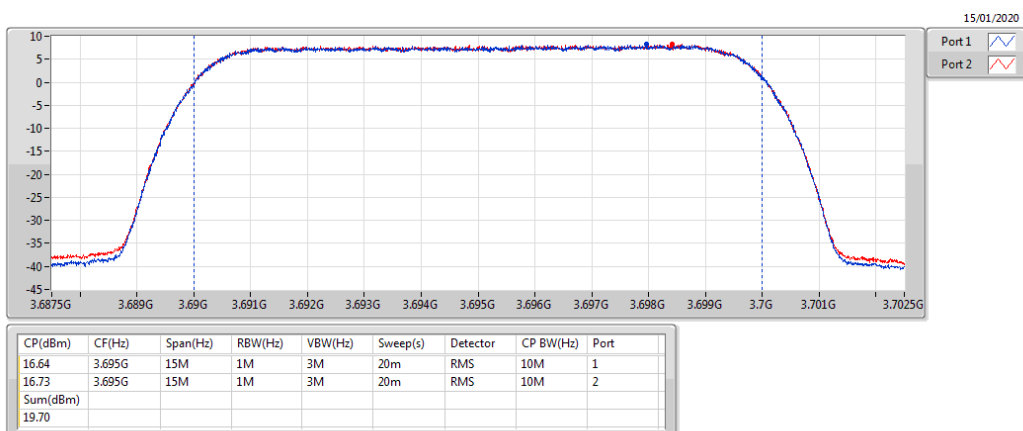
PowerAV



## Band 43\_10MHz\_2TX

3695MHz\_256QAM

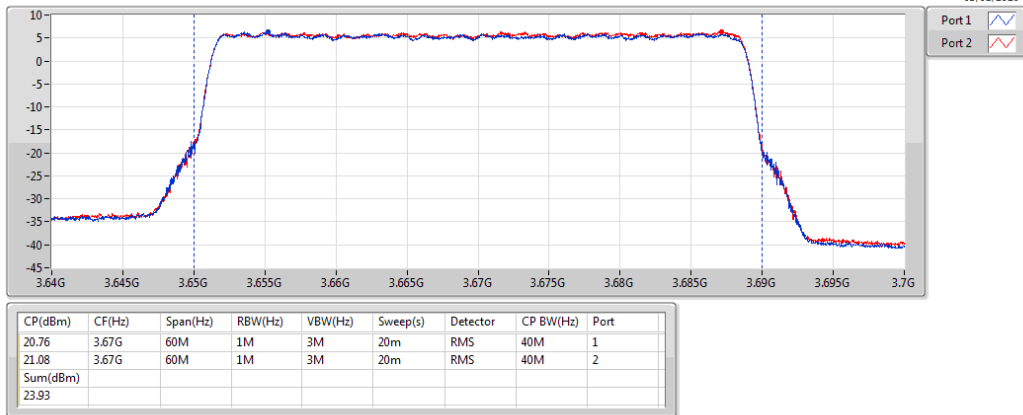
PowerAV



## Band 43\_40MHz\_2TX

3670MHz\_QPSK

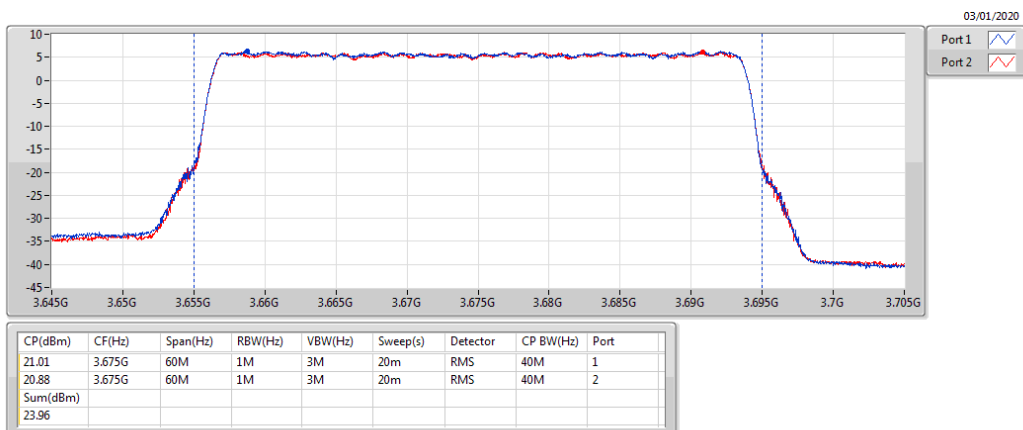
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_QPSK

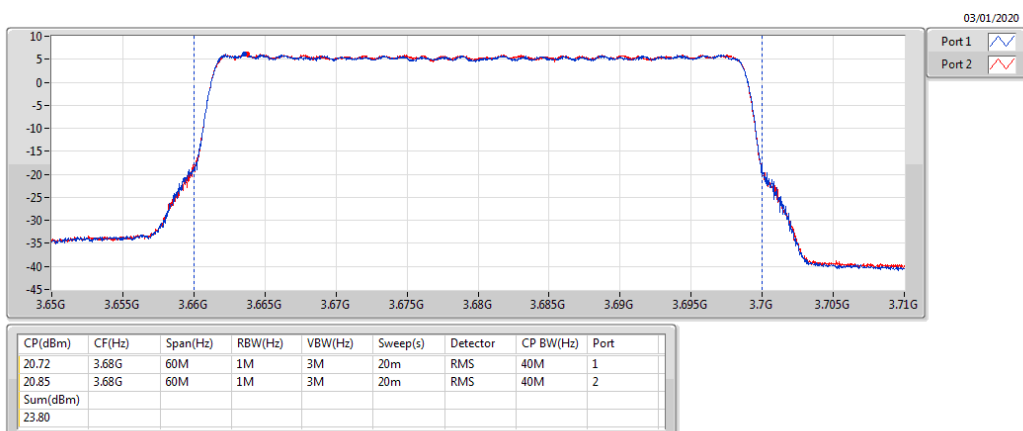
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_QPSK

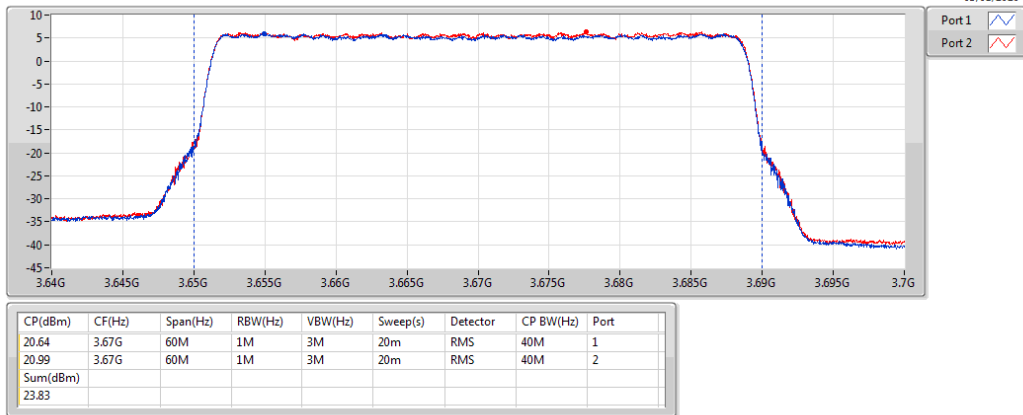
PowerAV



## Band 43\_40MHz\_2TX

### 3670MHz\_16QAM

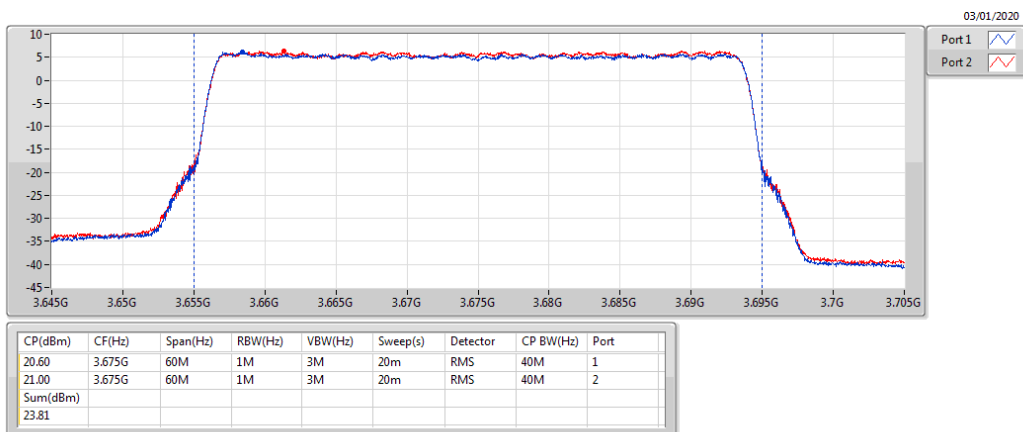
PowerAV



## Band 43\_40MHz\_2TX

### 3675MHz\_16QAM

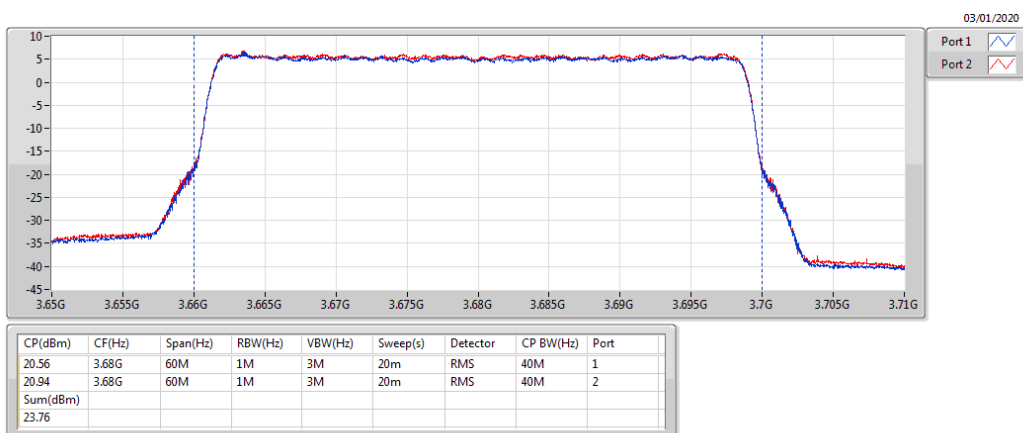
PowerAV



## Band 43\_40MHz\_2TX

### 3680MHz\_16QAM

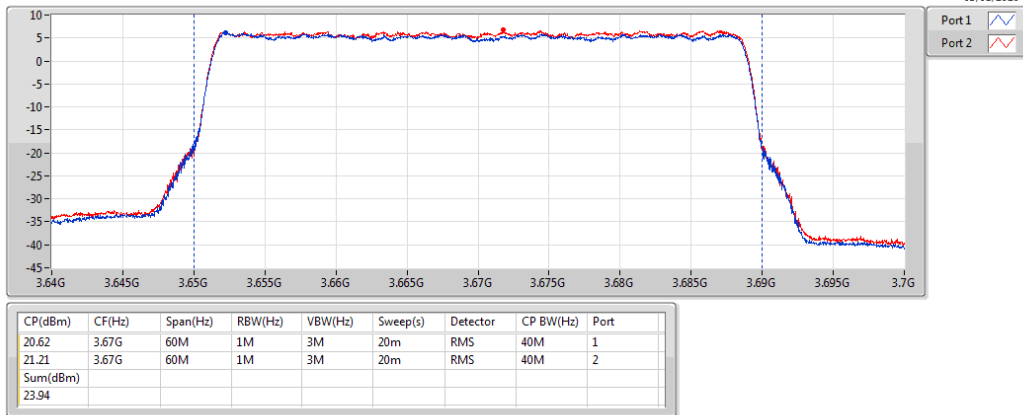
PowerAV



## Band 43\_40MHz\_2TX

3670MHz\_64QAM

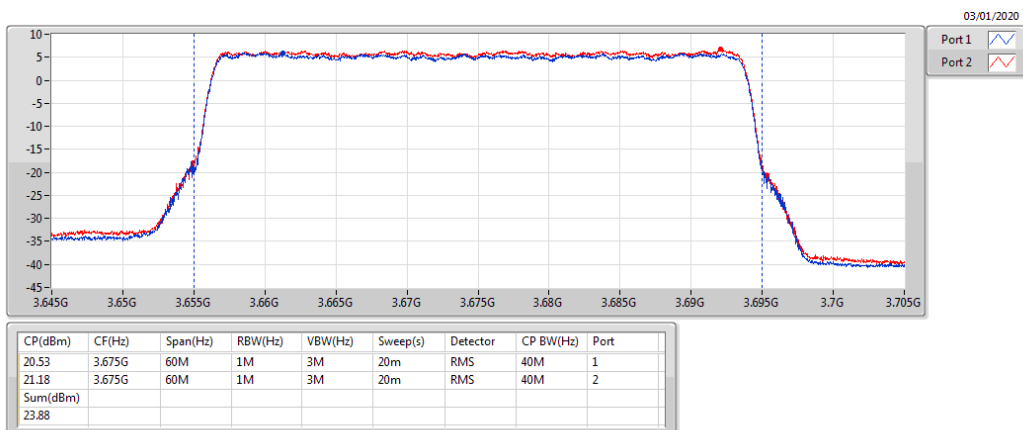
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_64QAM

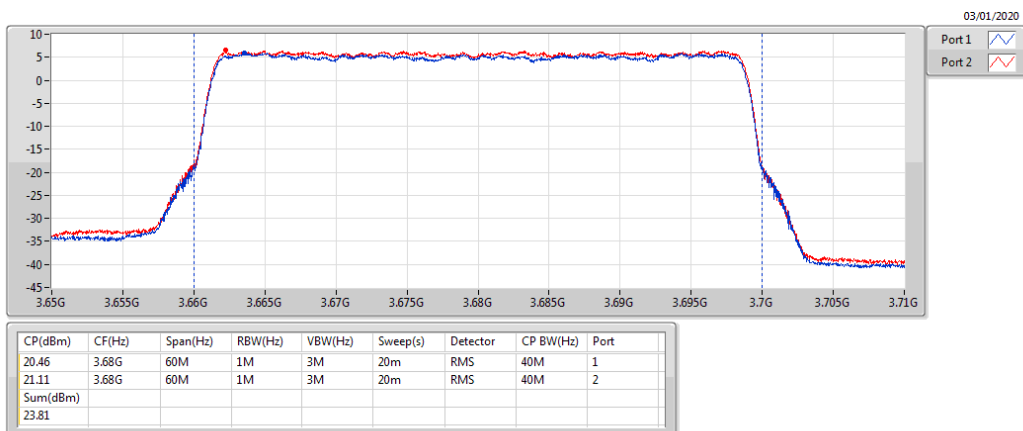
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_64QAM

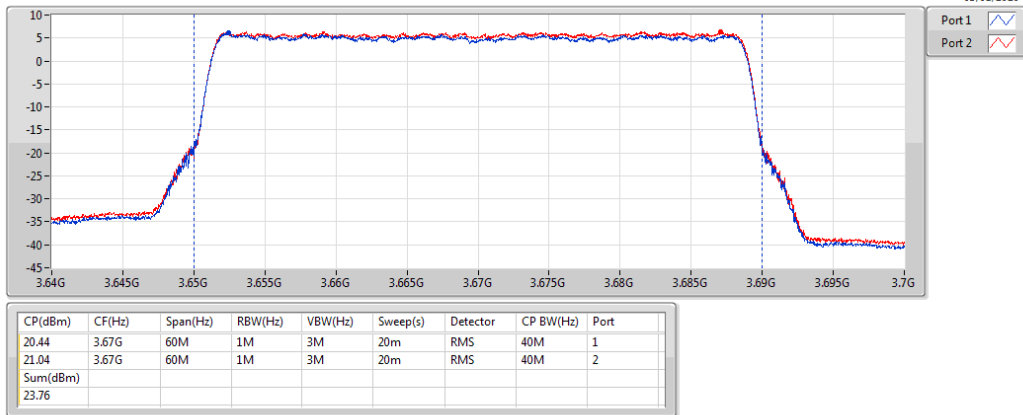
PowerAV



## Band 43\_40MHz\_2TX

3670MHz\_256QAM

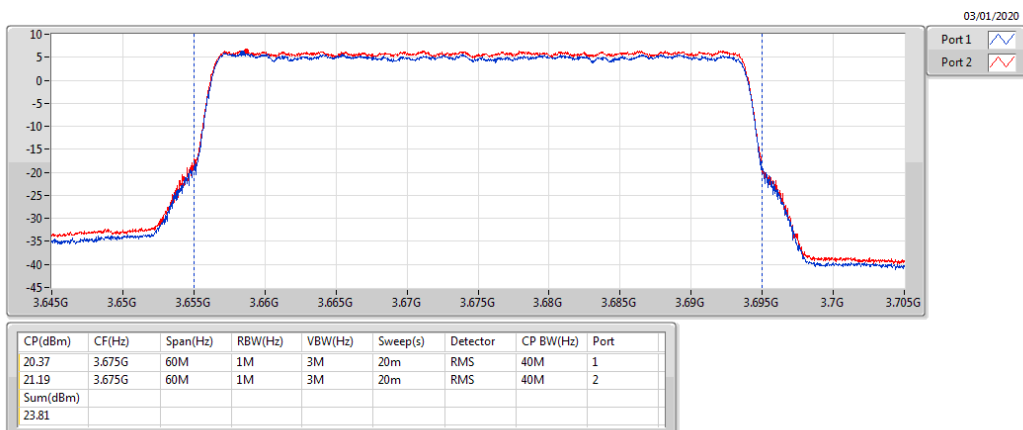
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_256QAM

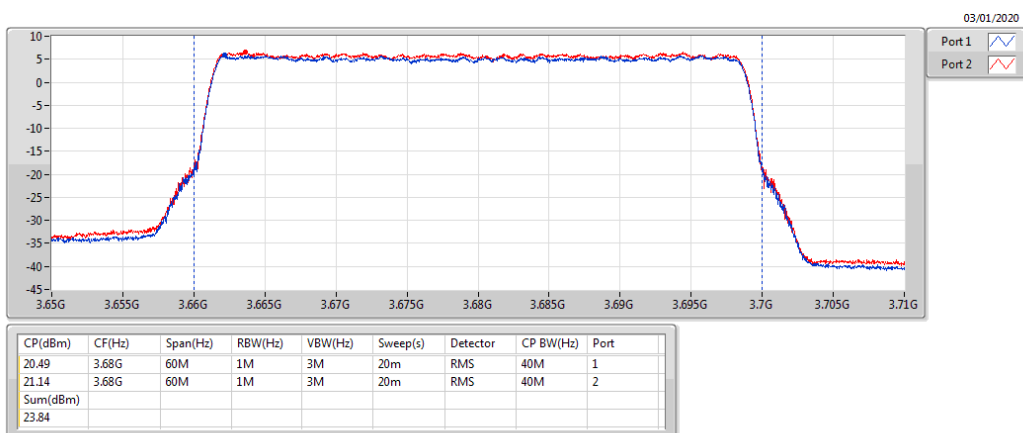
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_256QAM

PowerAV





## Average Power Result

## Appendix B.2

### Summary

| Mode             | Power<br>(dBm) | Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|------------------|----------------|--------------|---------------|-------------|
| Band 43          | -              | -            | -             | -           |
| 40MHz_QPSK_2TX   | 21.67          | 0.147        | 41.67         | 14.689      |
| 40MHz_16QAM_2TX  | 21.61          | 0.145        | 41.61         | 14.488      |
| 40MHz_64QAM_2TX  | 21.72          | 0.149        | 41.72         | 14.859      |
| 40MHz_256QAM_2TX | 21.54          | 0.143        | 41.54         | 14.256      |



## Average Power Result

## Appendix B.2

### Result

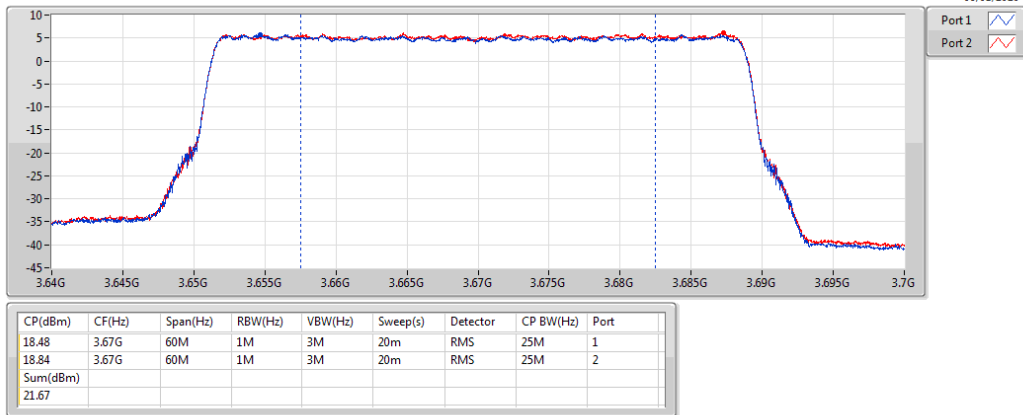
| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm/25MHz) | Port 2<br>(dBm/25MHz) | Power<br>(dBm/25MHz) | Power<br>(W) | EIRP<br>(dBm/25MHz) | EIRP<br>(W) | EIRP Lim.<br>(W) |
|--------------------------|--------|-------------|-----------------------|-----------------------|----------------------|--------------|---------------------|-------------|------------------|
| Band 43_40MHz_QPSK_2TX   | -      | -           | -                     | -                     | -                    | -            | -                   | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 18.48                 | 18.84                 | 21.67                | 0.147        | 41.67               | 14.689      | 25               |
| 3675MHz                  | Pass   | 20.00       | 18.10                 | 17.98                 | 21.05                | 0.127        | 41.05               | 12.735      | 25               |
| 3680MHz                  | Pass   | 20.00       | 17.93                 | 18.03                 | 20.99                | 0.126        | 40.99               | 12.560      | 25               |
| Band 43_40MHz_16QAM_2TX  | -      | -           | -                     | -                     | -                    | -            | -                   | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 18.43                 | 18.77                 | 21.61                | 0.145        | 41.61               | 14.488      | 25               |
| 3675MHz                  | Pass   | 20.00       | 18.15                 | 18.50                 | 21.34                | 0.136        | 41.34               | 13.614      | 25               |
| 3680MHz                  | Pass   | 20.00       | 17.93                 | 18.27                 | 21.11                | 0.129        | 41.11               | 12.912      | 25               |
| Band 43_40MHz_64QAM_2TX  | -      | -           | -                     | -                     | -                    | -            | -                   | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 18.41                 | 18.99                 | 21.72                | 0.149        | 41.72               | 14.859      | 25               |
| 3675MHz                  | Pass   | 20.00       | 18.16                 | 18.79                 | 21.50                | 0.141        | 41.50               | 14.125      | 25               |
| 3680MHz                  | Pass   | 20.00       | 17.93                 | 18.54                 | 21.26                | 0.134        | 41.26               | 13.366      | 25               |
| Band 43_40MHz_256QAM_2TX | -      | -           | -                     | -                     | -                    | -            | -                   | -           | -                |
| 3670MHz                  | Pass   | 20.00       | 18.21                 | 18.82                 | 21.54                | 0.143        | 41.54               | 14.256      | 25               |
| 3675MHz                  | Pass   | 20.00       | 18.04                 | 18.84                 | 21.47                | 0.140        | 41.47               | 14.028      | 25               |
| 3680MHz                  | Pass   | 20.00       | 17.81                 | 18.62                 | 21.24                | 0.133        | 41.24               | 13.305      | 25               |

**DG** = Directional Gain; **Port n** = Port n output power

## Band 43\_40MHz\_2TX

3670MHz\_QPSK

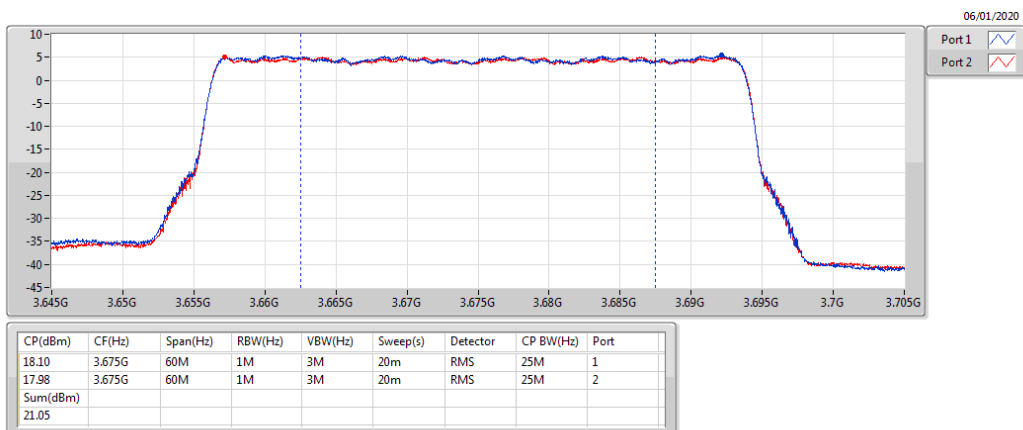
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_QPSK

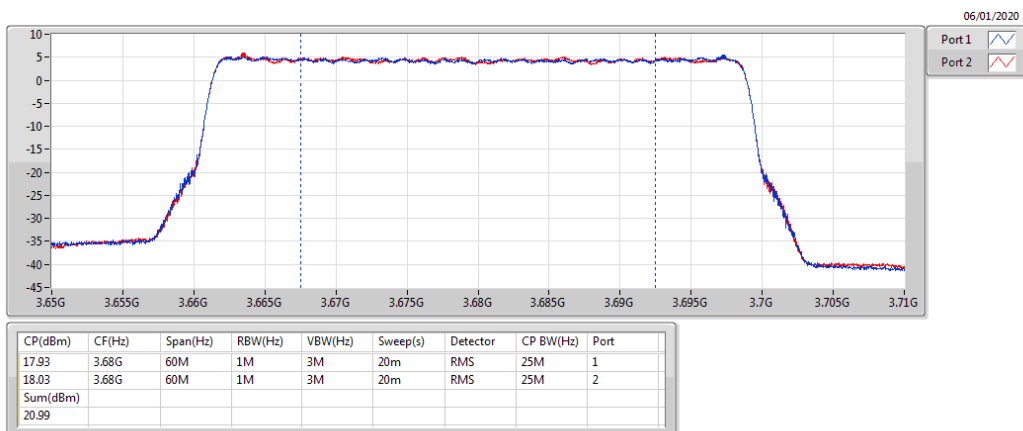
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_QPSK

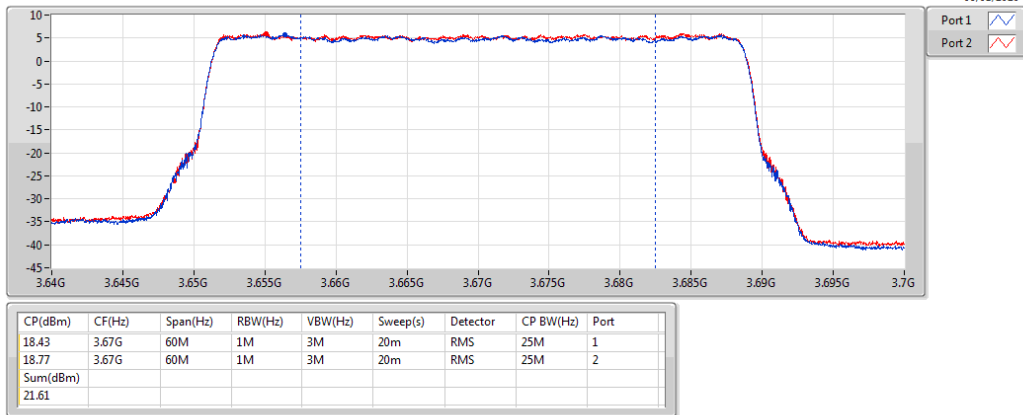
PowerAV



## Band 43\_40MHz\_2TX

3670MHz\_16QAM

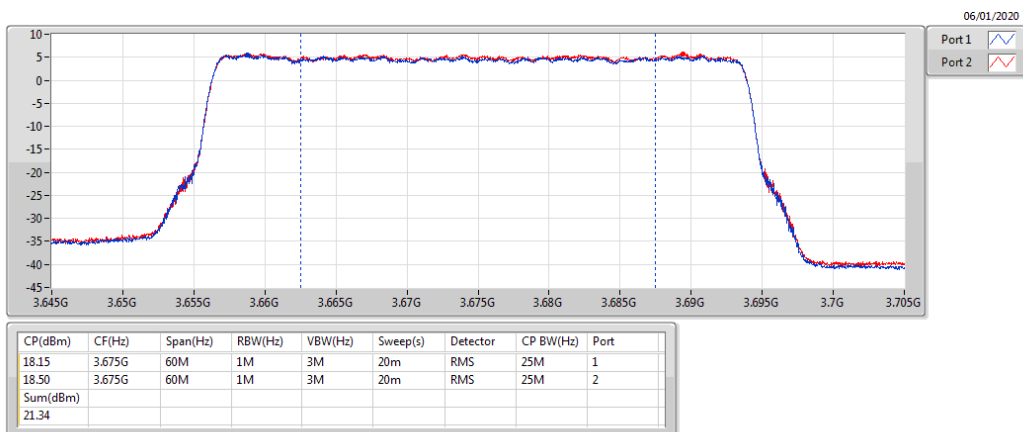
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_16QAM

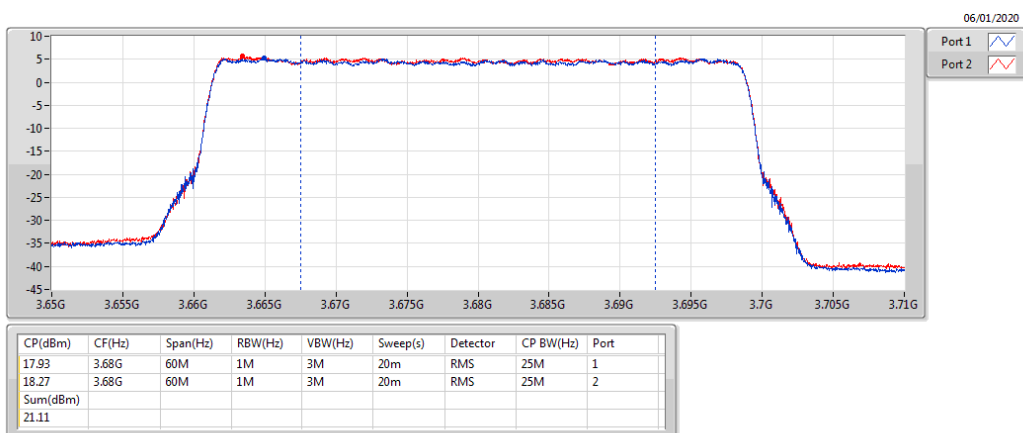
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_16QAM

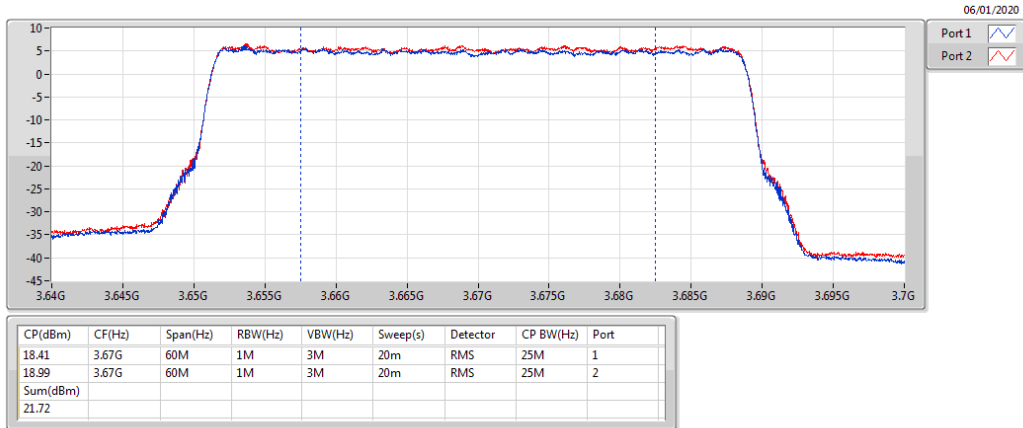
PowerAV



## Band 43\_40MHz\_2TX

3670MHz\_64QAM

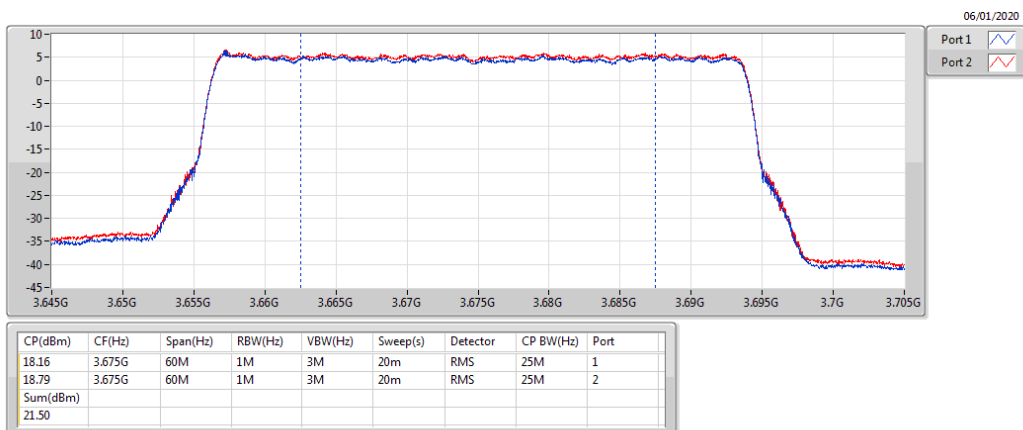
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_64QAM

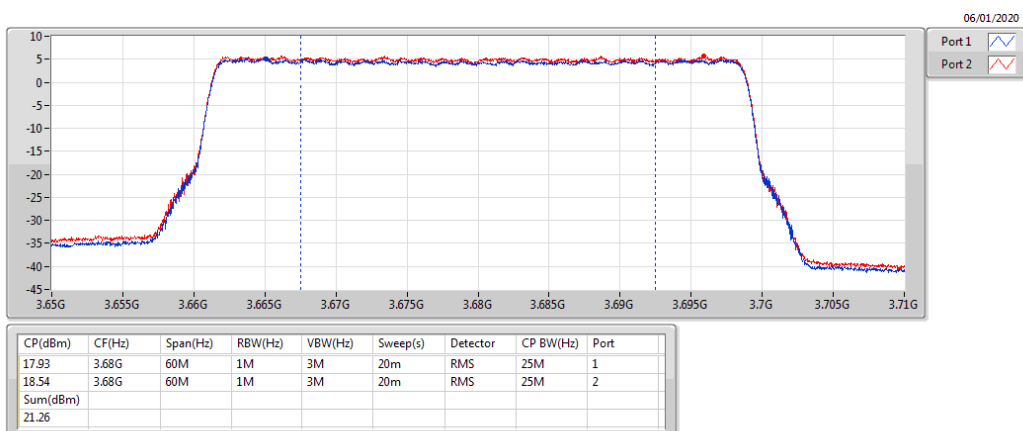
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_64QAM

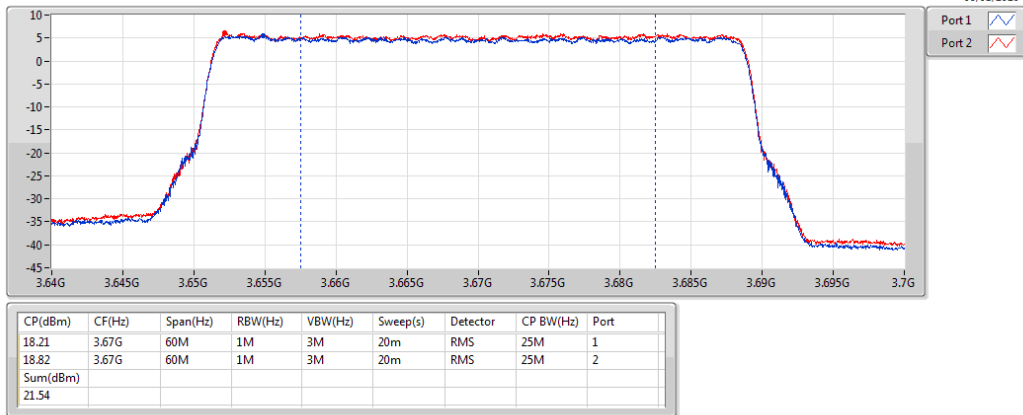
PowerAV



## Band 43\_40MHz\_2TX

3670MHz\_256QAM

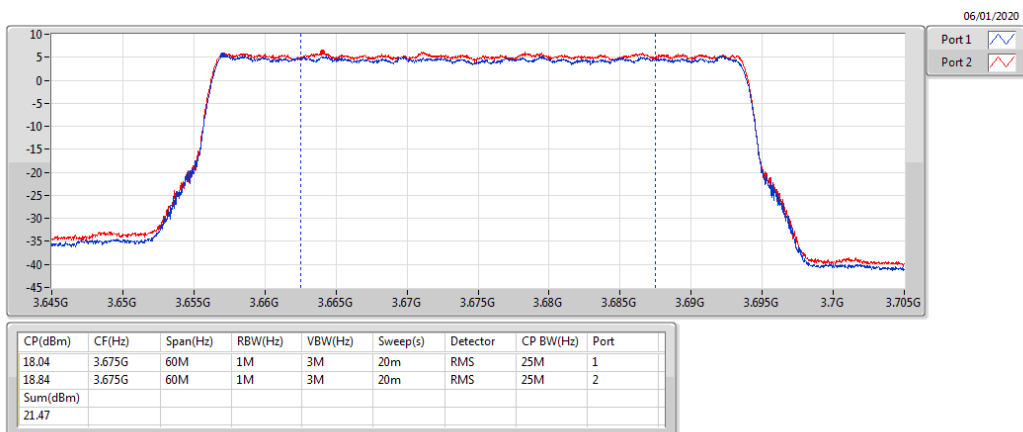
PowerAV



## Band 43\_40MHz\_2TX

3675MHz\_256QAM

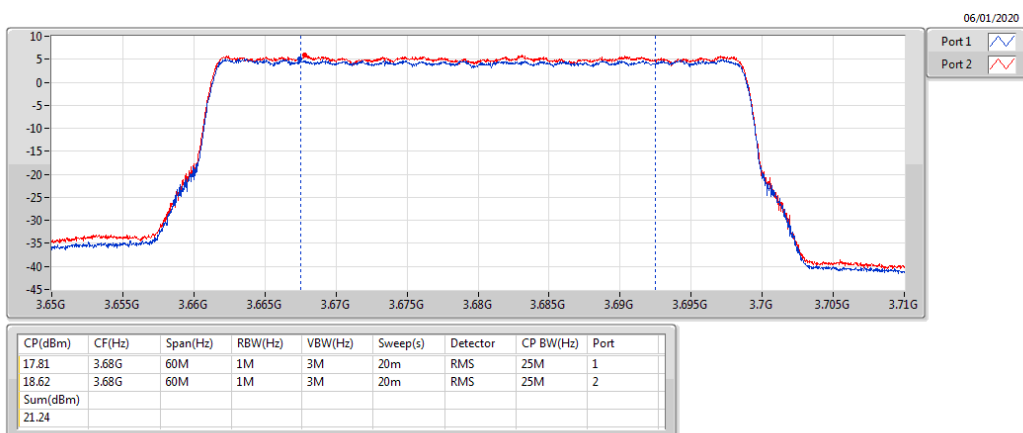
PowerAV



## Band 43\_40MHz\_2TX

3680MHz\_256QAM

PowerAV





**For 5MHz:  
Summary**

| Mode            | PD<br>(dBm/MHz) | EIRP PD<br>(dBm/MHz) |
|-----------------|-----------------|----------------------|
| Band 43         | -               | -                    |
| 5MHz_QPSK_2TX   | 9.76            | 29.76                |
| 5MHz_16QAM_2TX  | 9.78            | 29.78                |
| 5MHz_64QAM_2TX  | 9.78            | 29.78                |
| 5MHz_256QAM_2TX | 9.75            | 29.75                |

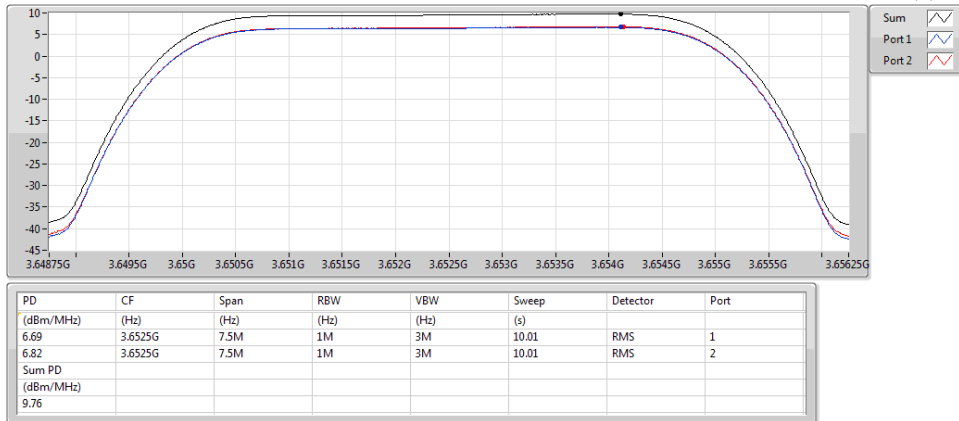
**Result**

| Mode                    | Result | DG<br>(dBi) | Port 1<br>(dBm/MHz) | Port 2<br>(dBm/MHz) | PD<br>(dBm/MHz) | EIRP PD<br>(dBm/MHz) | EIRP PD Limit<br>(dBm/MHz) |
|-------------------------|--------|-------------|---------------------|---------------------|-----------------|----------------------|----------------------------|
| Band 43_5MHz_QPSK_2TX   | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3652.5MHz               | Pass   | 20.00       | 6.69                | 6.82                | 9.76            | 29.76                | 30.00                      |
| 3675MHz                 | Pass   | 20.00       | 6.28                | 6.90                | 9.61            | 29.61                | 30.00                      |
| 3697.5MHz               | Pass   | 20.00       | 6.71                | 6.39                | 9.56            | 29.56                | 30.00                      |
| Band 43_5MHz_16QAM_2TX  | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3652.5MHz               | Pass   | 20.00       | 6.84                | 6.72                | 9.78            | 29.78                | 30.00                      |
| 3675MHz                 | Pass   | 20.00       | 6.57                | 6.61                | 9.60            | 29.60                | 30.00                      |
| 3697.5MHz               | Pass   | 20.00       | 6.59                | 6.29                | 9.45            | 29.45                | 30.00                      |
| Band 43_5MHz_64QAM_2TX  | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3652.5MHz               | Pass   | 20.00       | 7.13                | 6.43                | 9.78            | 29.78                | 30.00                      |
| 3675MHz                 | Pass   | 20.00       | 6.89                | 6.44                | 9.68            | 29.68                | 30.00                      |
| 3697.5MHz               | Pass   | 20.00       | 6.62                | 6.70                | 9.66            | 29.66                | 30.00                      |
| Band 43_5MHz_256QAM_2TX | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3652.5MHz               | Pass   | 20.00       | 7.14                | 6.29                | 9.75            | 29.75                | 30.00                      |
| 3675MHz                 | Pass   | 20.00       | 6.66                | 6.54                | 9.60            | 29.60                | 30.00                      |
| 3697.5MHz               | Pass   | 20.00       | 7.10                | 6.33                | 9.74            | 29.74                | 30.00                      |

**DG** = Directional Gain;**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

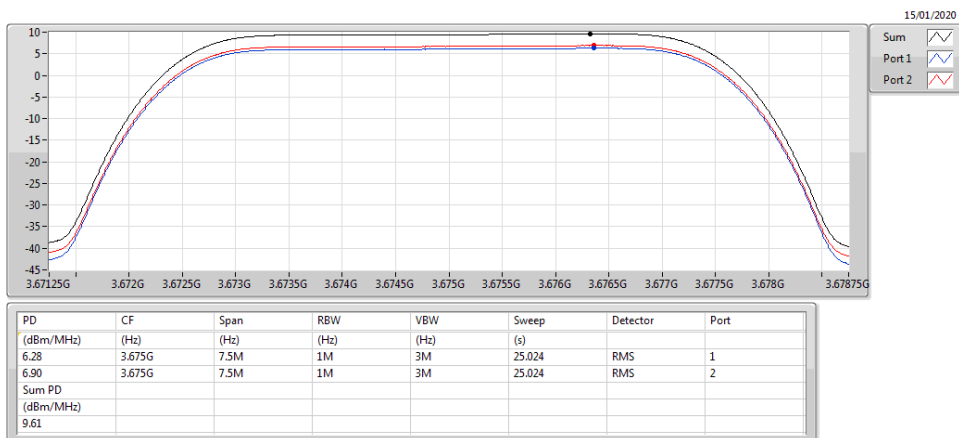
**Band 43\_5MHz\_2TX**  
**3652.5MHz\_QPSK**

**PSD**



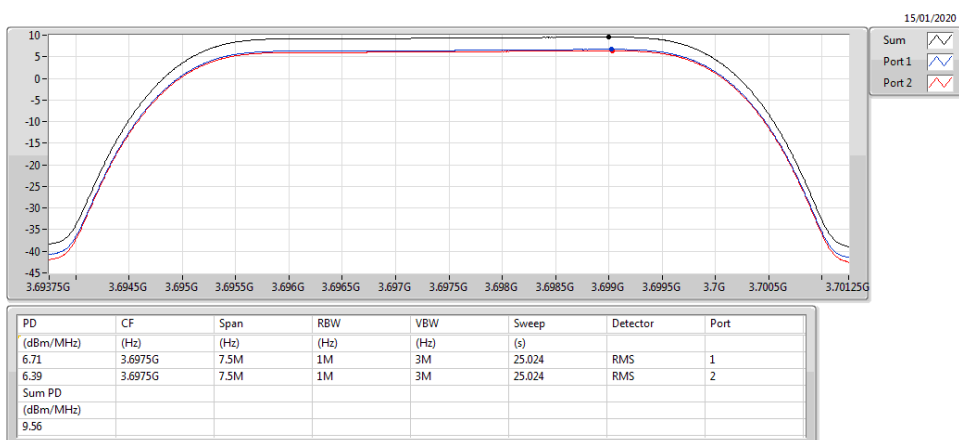
**Band 43\_5MHz\_2TX**  
**3675MHz\_QPSK**

**PSD**



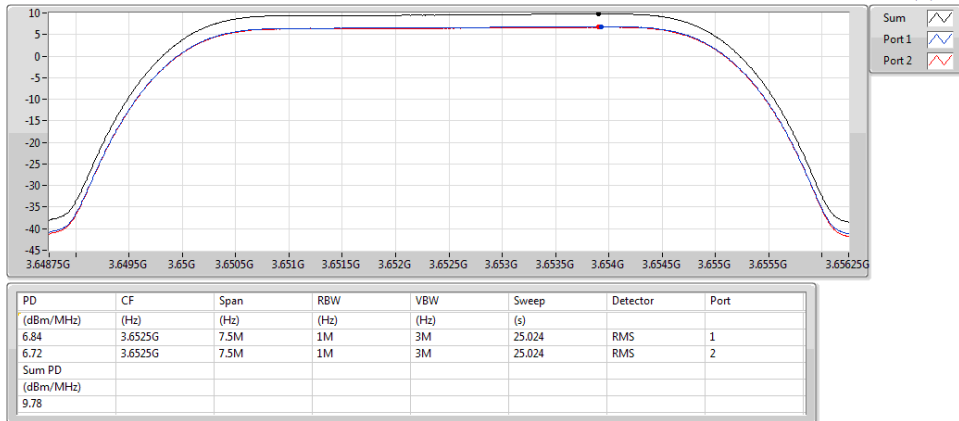
**Band 43\_5MHz\_2TX**  
**3697.5MHz\_QPSK**

**PSD**



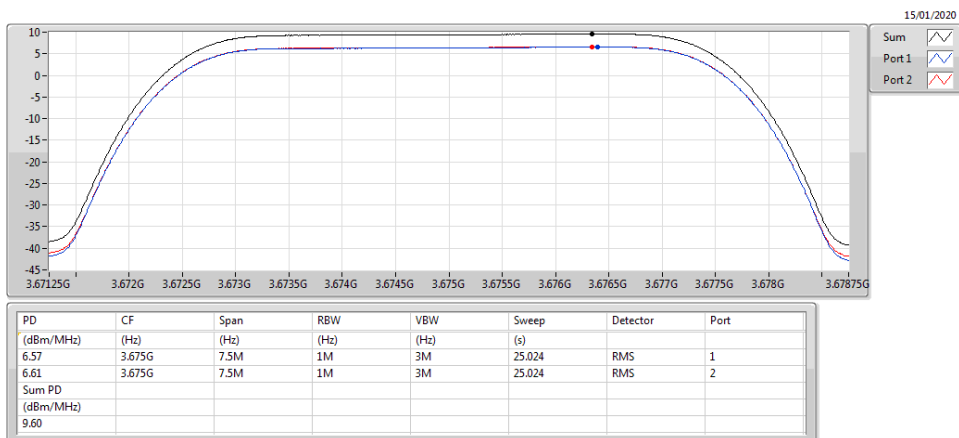
**Band 43\_5MHz\_2TX**  
**3652.5MHz\_16QAM**

**PSD**



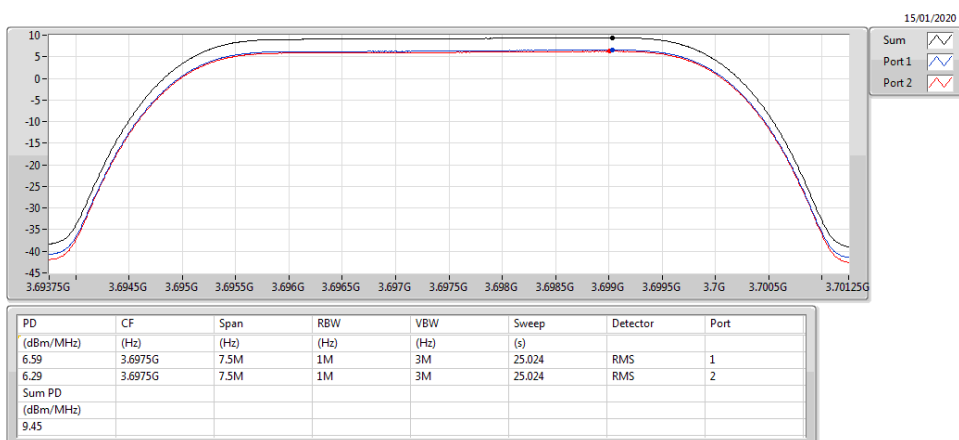
**Band 43\_5MHz\_2TX**  
**3675MHz\_16QAM**

**PSD**



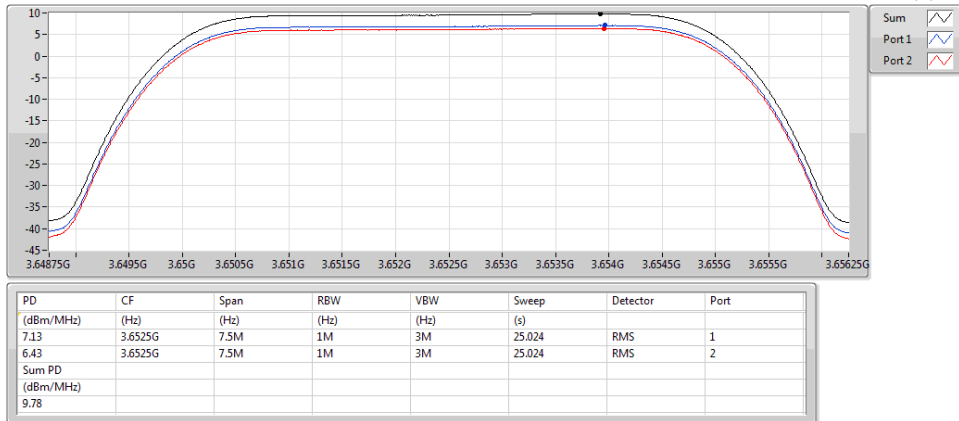
**Band 43\_5MHz\_2TX**  
**3697.5MHz\_16QAM**

**PSD**



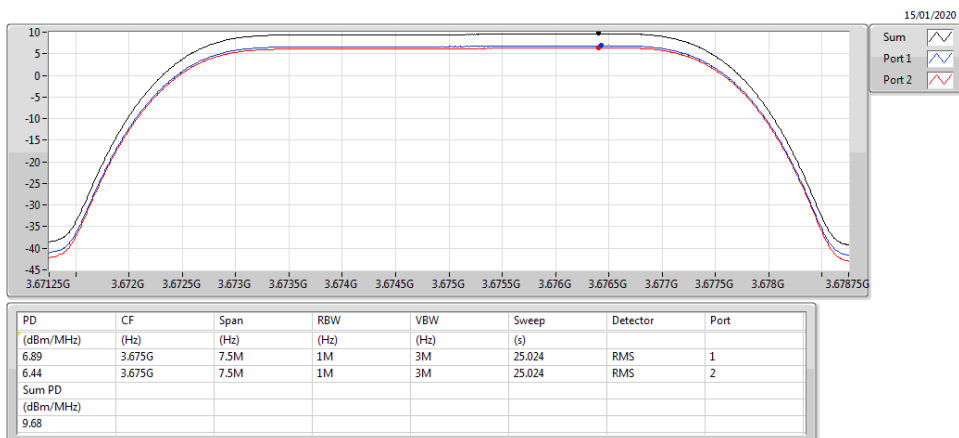
**Band 43\_5MHz\_2TX**  
**3652.5MHz\_64QAM**

**PSD**



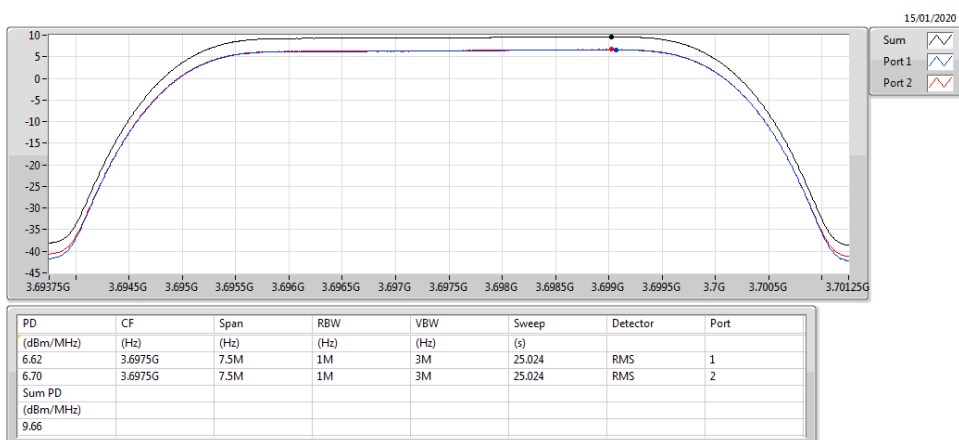
**Band 43\_5MHz\_2TX**  
**3675MHz\_64QAM**

**PSD**



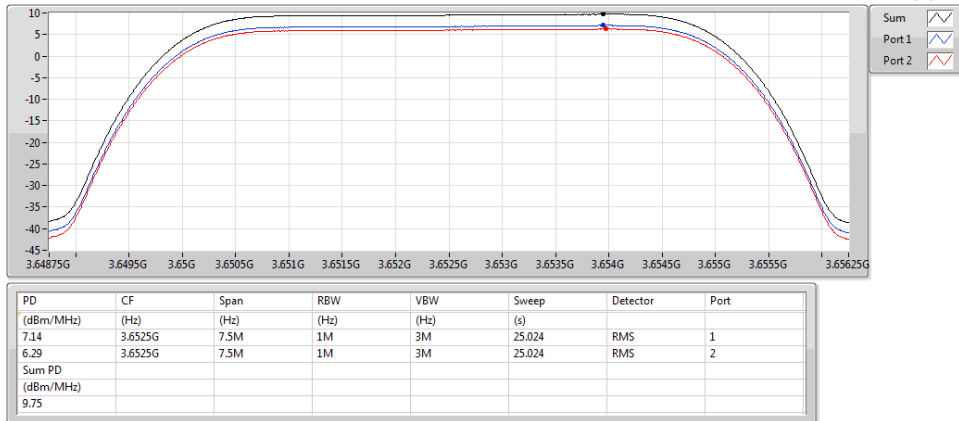
**Band 43\_5MHz\_2TX**  
**3697.5MHz\_64QAM**

**PSD**



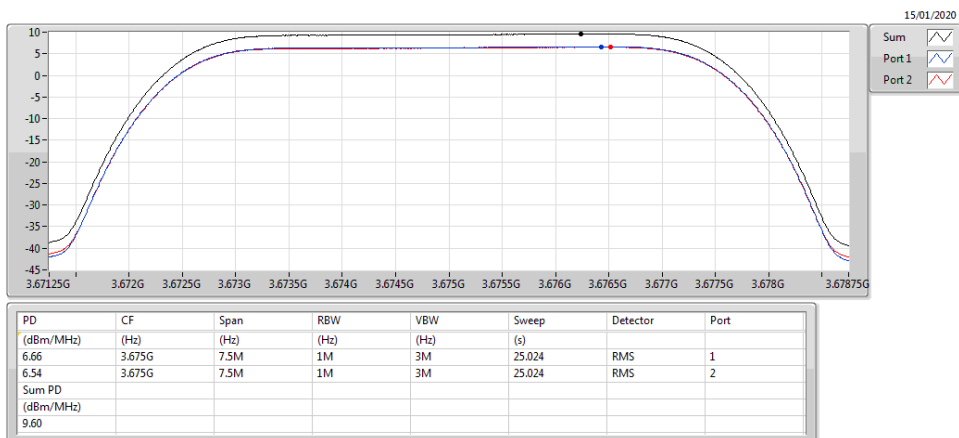
## Band 43\_5MHz\_2TX 3652.5MHz\_256QAM

PSD



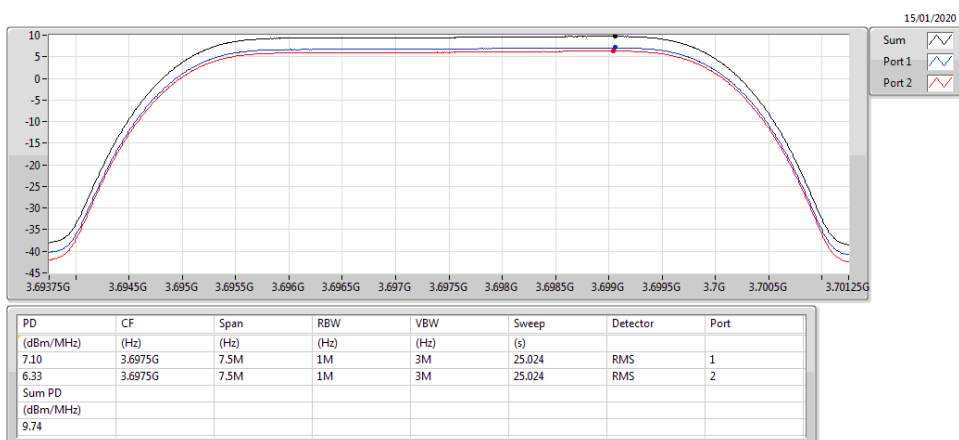
## Band 43\_5MHz\_2TX 3675MHz\_256QAM

PSD



## Band 43\_5MHz\_2TX 3697.5MHz\_256QAM

PSD





**For 10MHz and 40MHz:  
Summary**

| Mode             | PD<br>(dBm/MHz) | EIRP PD<br>(dBm/MHz) |
|------------------|-----------------|----------------------|
| Band 43          | -               | -                    |
| 10MHz_QPSK_2TX   | 9.89            | 29.89                |
| 10MHz_16QAM_2TX  | 9.32            | 29.32                |
| 10MHz_64QAM_2TX  | 9.38            | 29.38                |
| 10MHz_256QAM_2TX | 9.91            | 29.91                |
| 40MHz_QPSK_2TX   | 7.69            | 27.69                |
| 40MHz_16QAM_2TX  | 7.61            | 27.61                |
| 40MHz_64QAM_2TX  | 7.72            | 27.72                |
| 40MHz_256QAM_2TX | 7.61            | 27.61                |

**Result**

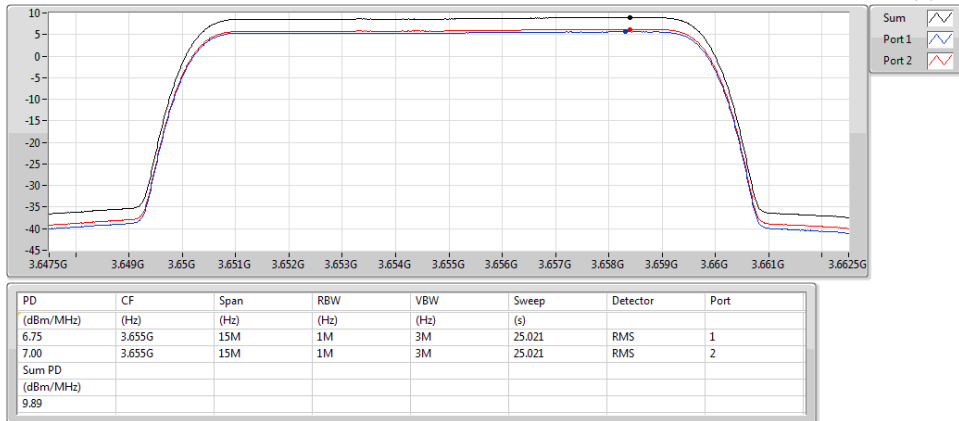
| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm/MHz) | Port 2<br>(dBm/MHz) | PD<br>(dBm/MHz) | EIRP PD<br>(dBm/MHz) | EIRP PD Limit<br>(dBm/MHz) |
|--------------------------|--------|-------------|---------------------|---------------------|-----------------|----------------------|----------------------------|
| Band 43_10MHz_QPSK_2TX   | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3655MHz                  | Pass   | 20.00       | 6.75                | 7.00                | 9.89            | 29.89                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 6.59                | 6.13                | 9.38            | 29.38                | 30.00                      |
| 3695MHz                  | Pass   | 20.00       | 6.44                | 5.83                | 9.15            | 29.15                | 30.00                      |
| Band 43_10MHz_16QAM_2TX  | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3655MHz                  | Pass   | 20.00       | 5.80                | 6.44                | 9.14            | 29.14                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 6.43                | 6.20                | 9.32            | 29.32                | 30.00                      |
| 3695MHz                  | Pass   | 20.00       | 6.30                | 6.19                | 9.26            | 29.26                | 30.00                      |
| Band 43_10MHz_64QAM_2TX  | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3655MHz                  | Pass   | 20.00       | 5.71                | 6.42                | 9.08            | 29.08                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 6.50                | 6.23                | 9.38            | 29.38                | 30.00                      |
| 3695MHz                  | Pass   | 20.00       | 6.35                | 6.24                | 9.30            | 29.30                | 30.00                      |
| Band 43_10MHz_256QAM_2TX | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3655MHz                  | Pass   | 20.00       | 7.39                | 6.37                | 9.91            | 29.91                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 6.35                | 6.53                | 9.45            | 29.45                | 30.00                      |
| 3695MHz                  | Pass   | 20.00       | 6.28                | 6.29                | 9.29            | 29.29                | 30.00                      |
| Band 43_40MHz_QPSK_2TX   | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3670MHz                  | Pass   | 20.00       | 4.56                | 4.70                | 7.61            | 27.61                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 4.85                | 4.51                | 7.69            | 27.69                | 30.00                      |
| 3680MHz                  | Pass   | 20.00       | 4.53                | 4.55                | 7.55            | 27.55                | 30.00                      |
| Band 43_40MHz_16QAM_2TX  | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3670MHz                  | Pass   | 20.00       | 4.51                | 4.65                | 7.56            | 27.56                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 4.51                | 4.69                | 7.61            | 27.61                | 30.00                      |
| 3680MHz                  | Pass   | 20.00       | 4.43                | 4.68                | 7.57            | 27.57                | 30.00                      |
| Band 43_40MHz_64QAM_2TX  | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3670MHz                  | Pass   | 20.00       | 4.47                | 4.92                | 7.67            | 27.67                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 4.49                | 4.92                | 7.72            | 27.72                | 30.00                      |
| 3680MHz                  | Pass   | 20.00       | 4.26                | 4.84                | 7.57            | 27.57                | 30.00                      |
| Band 43_40MHz_256QAM_2TX | -      | -           | -                   | -                   | -               | -                    | -                          |
| 3670MHz                  | Pass   | 20.00       | 4.58                | 4.70                | 7.61            | 27.61                | 30.00                      |
| 3675MHz                  | Pass   | 20.00       | 4.26                | 4.83                | 7.56            | 27.56                | 30.00                      |
| 3680MHz                  | Pass   | 20.00       | 4.33                | 4.74                | 7.55            | 27.55                | 30.00                      |

**DG** = Directional Gain;

**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

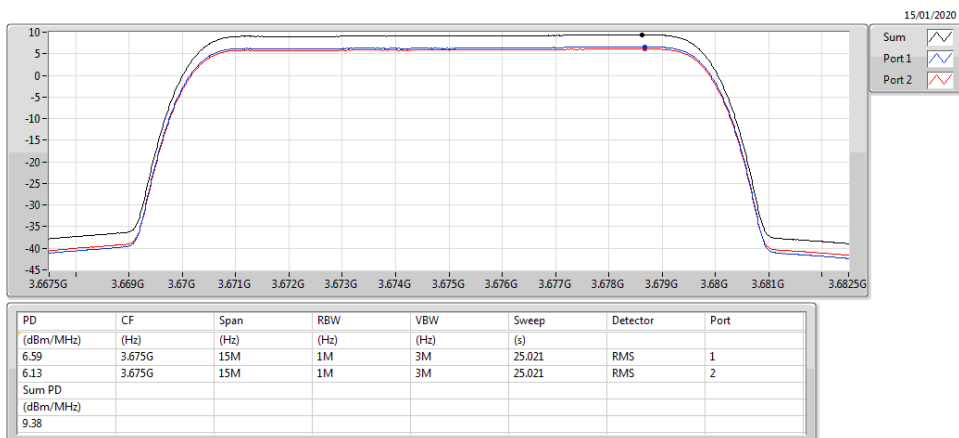
**Band 43\_10MHz\_2TX**  
**3655MHz\_QPSK**

PSD



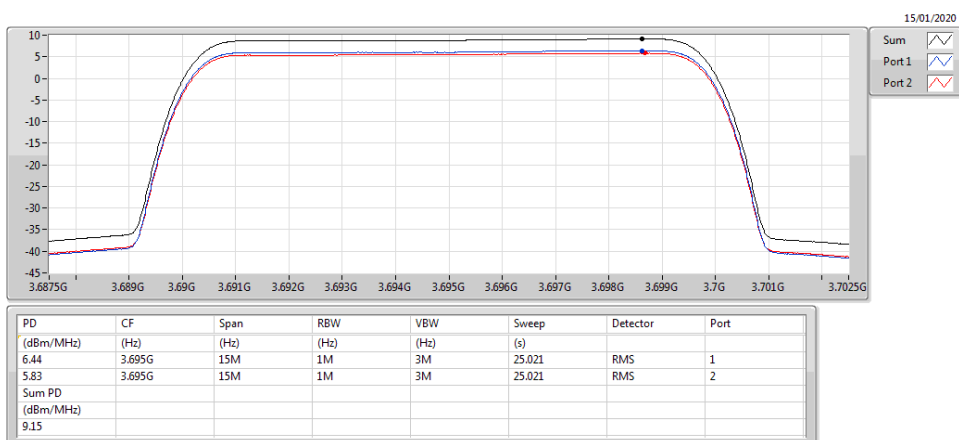
**Band 43\_10MHz\_2TX**  
**3675MHz\_QPSK**

PSD



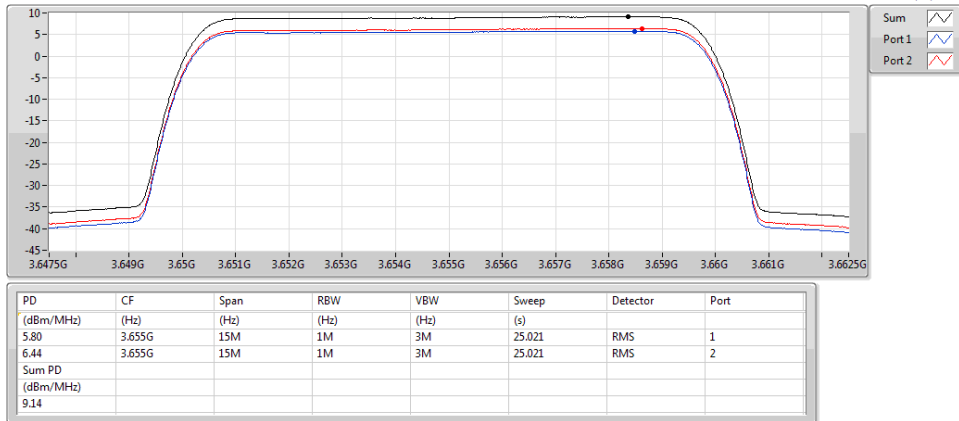
**Band 43\_10MHz\_2TX**  
**3695MHz\_QPSK**

PSD



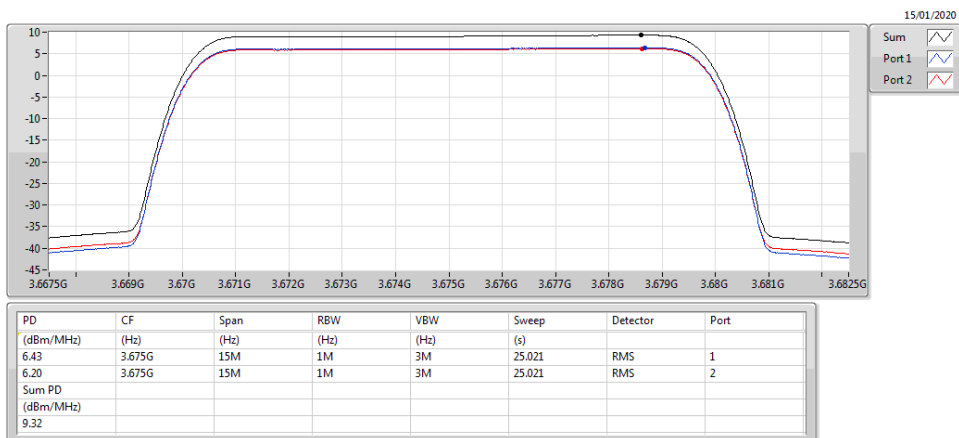
**Band 43\_10MHz\_2TX**  
**3655MHz\_16QAM**

PSD



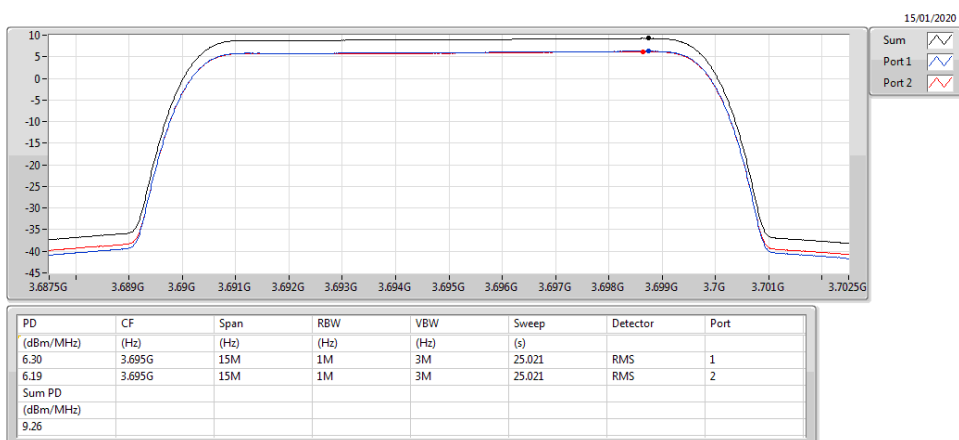
**Band 43\_10MHz\_2TX**  
**3675MHz\_16QAM**

PSD



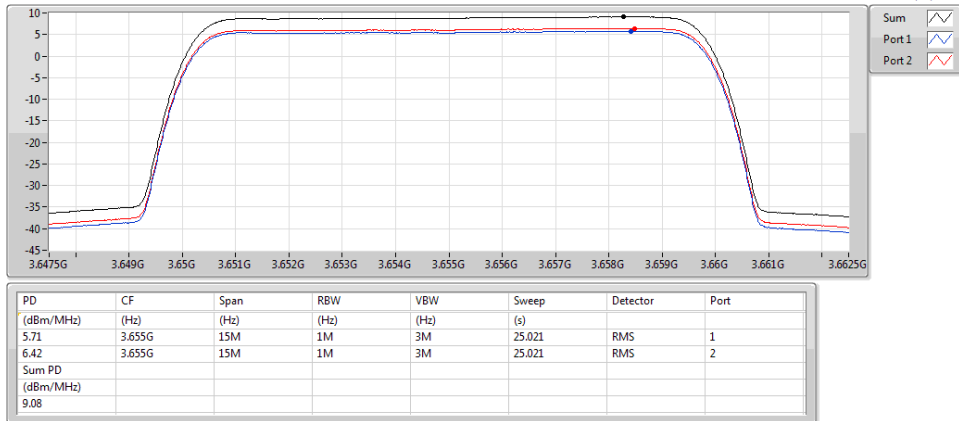
**Band 43\_10MHz\_2TX**  
**3695MHz\_16QAM**

PSD



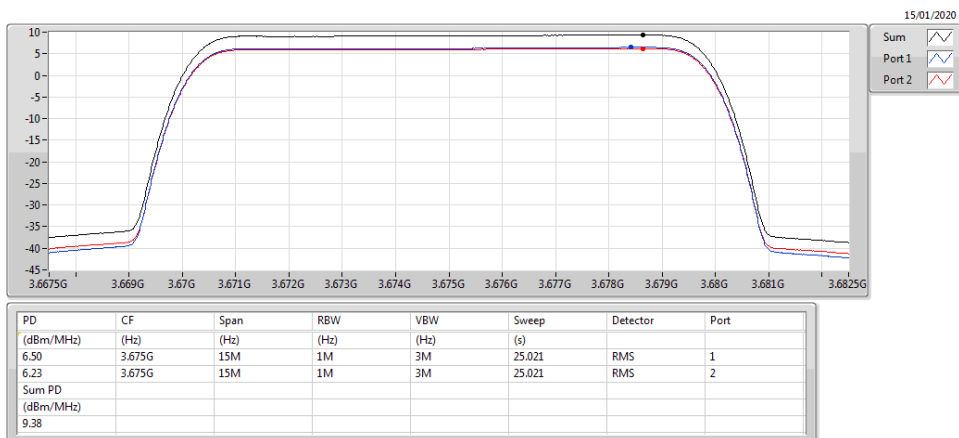
**Band 43\_10MHz\_2TX**  
**3655MHz\_64QAM**

PSD



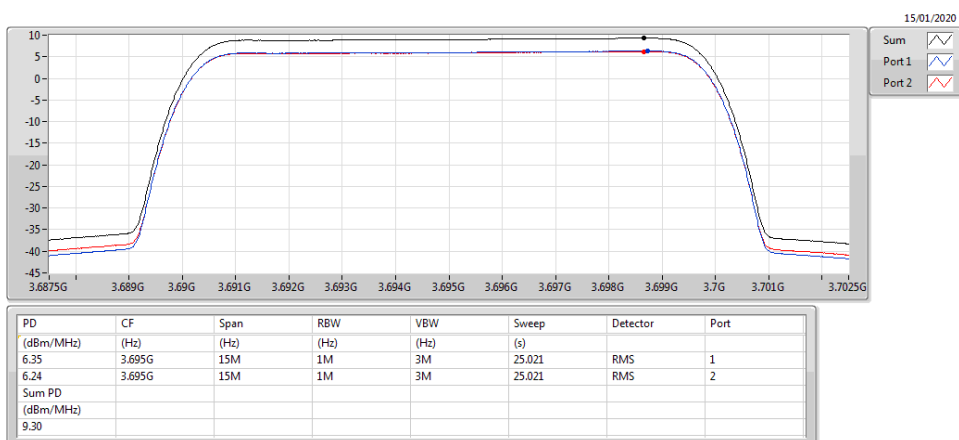
**Band 43\_10MHz\_2TX**  
**3675MHz\_64QAM**

PSD



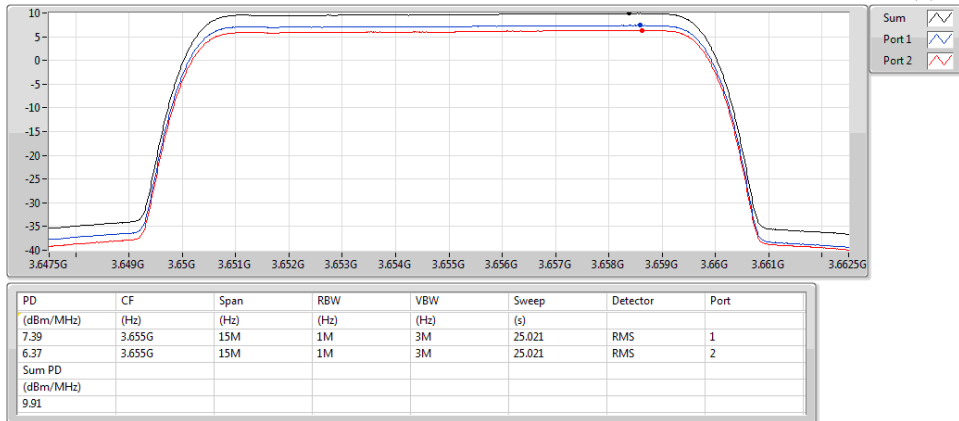
**Band 43\_10MHz\_2TX**  
**3695MHz\_64QAM**

PSD



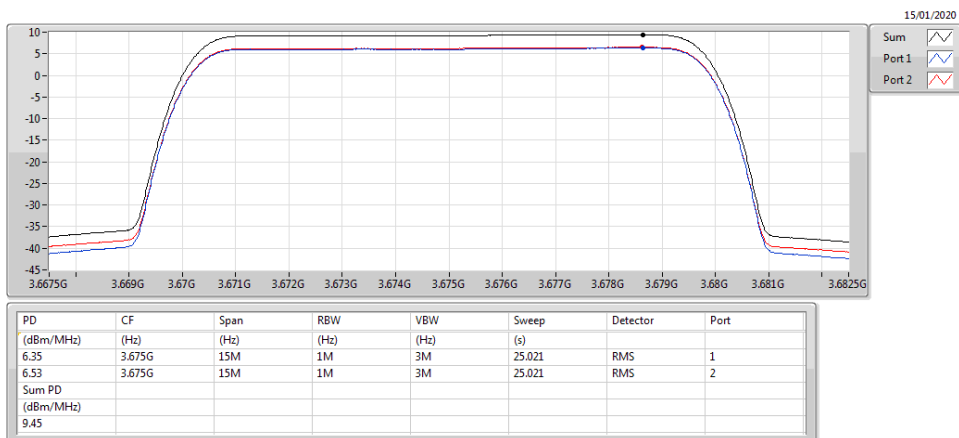
**Band 43\_10MHz\_2TX**  
**3655MHz\_256QAM**

PSD



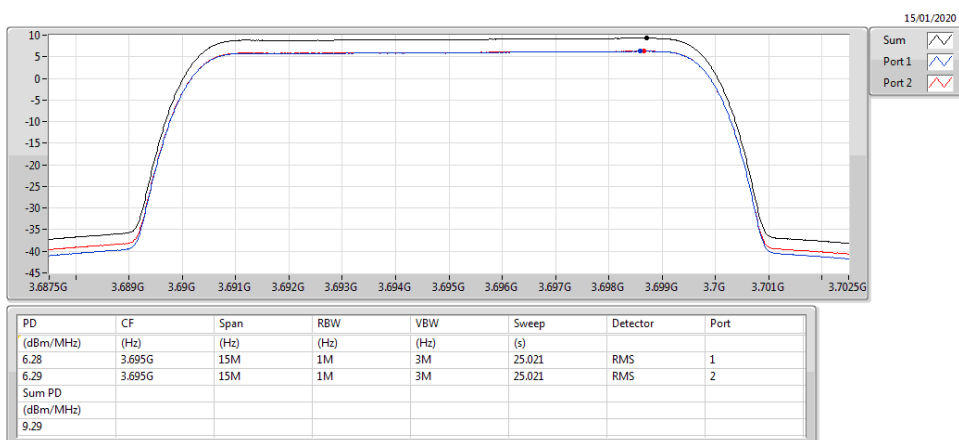
**Band 43\_10MHz\_2TX**  
**3675MHz\_256QAM**

PSD



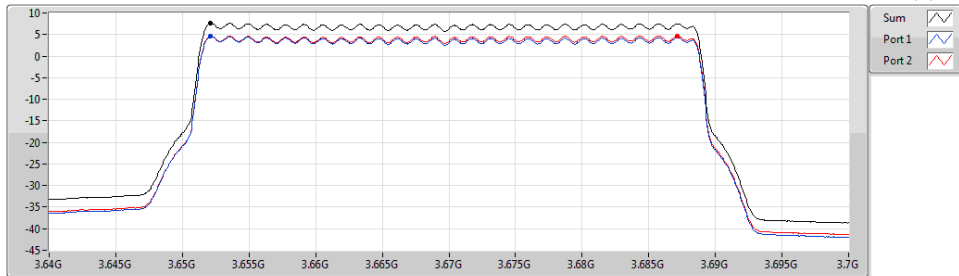
**Band 43\_10MHz\_2TX**  
**3695MHz\_256QAM**

PSD



### Band 43\_40MHz\_2TX 3670MHz\_QPSK

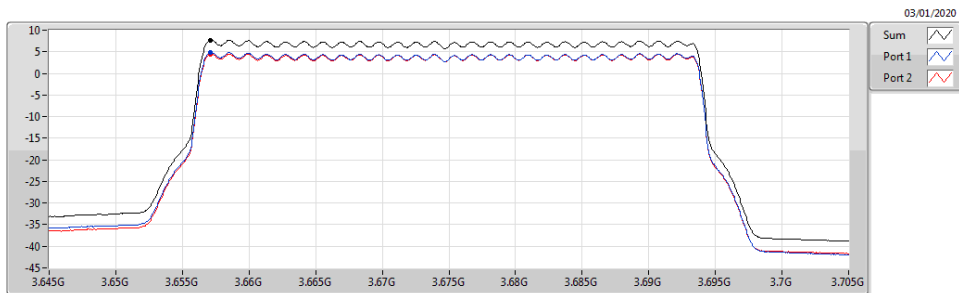
PSD



| PD        | CF    | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|-------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)  | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.56      | 3.67G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.70      | 3.67G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |       |      |      |      |       |          |      |
| (dBm/MHz) |       |      |      |      |       |          |      |
| 7.61      |       |      |      |      |       |          |      |

### Band 43\_40MHz\_2TX 3675MHz\_QPSK

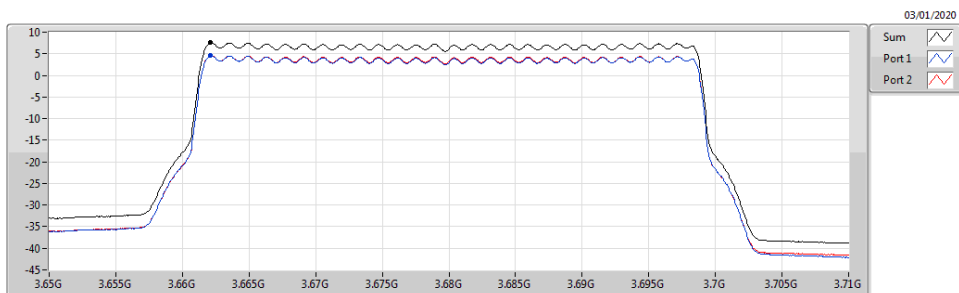
PSD



| PD        | CF     | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|--------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)   | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.85      | 3.675G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.51      | 3.675G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |        |      |      |      |       |          |      |
| (dBm/MHz) |        |      |      |      |       |          |      |
| 7.69      |        |      |      |      |       |          |      |

### Band 43\_40MHz\_2TX 3680MHz\_QPSK

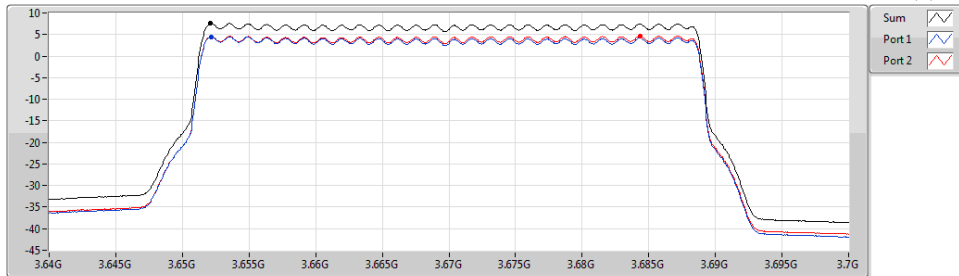
PSD



| PD        | CF    | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|-------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)  | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.53      | 3.68G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.55      | 3.68G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |       |      |      |      |       |          |      |
| (dBm/MHz) |       |      |      |      |       |          |      |
| 7.55      |       |      |      |      |       |          |      |

## Band 43\_40MHz\_2TX 3670MHz\_16QAM

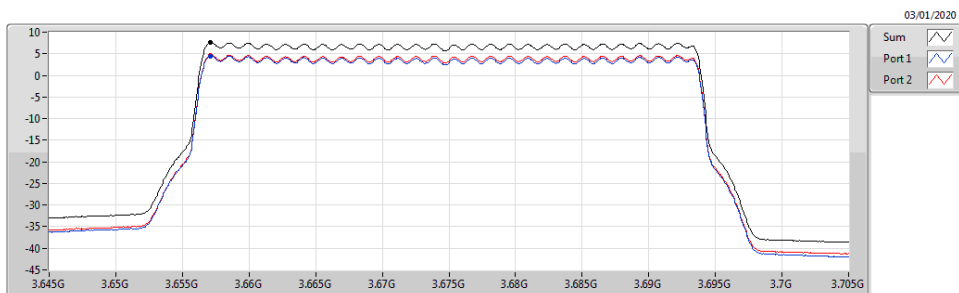
PSD



| PD        | CF    | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|-------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)  | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.51      | 3.67G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.65      | 3.67G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |       |      |      |      |       |          |      |
| (dBm/MHz) |       |      |      |      |       |          |      |
| 7.56      |       |      |      |      |       |          |      |

## Band 43\_40MHz\_2TX 3675MHz\_16QAM

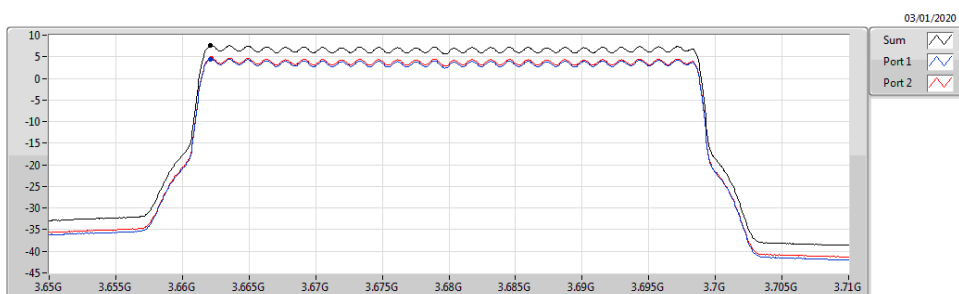
PSD



| PD        | CF     | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|--------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)   | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.51      | 3.675G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.69      | 3.675G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |        |      |      |      |       |          |      |
| (dBm/MHz) |        |      |      |      |       |          |      |
| 7.61      |        |      |      |      |       |          |      |

## Band 43\_40MHz\_2TX 3680MHz\_16QAM

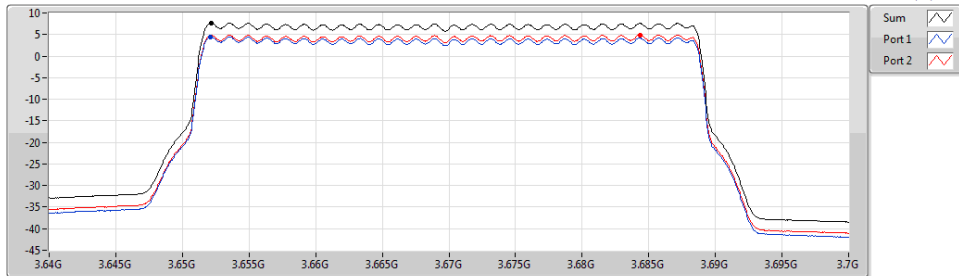
PSD



| PD        | CF    | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|-------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)  | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.43      | 3.68G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.68      | 3.68G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |       |      |      |      |       |          |      |
| (dBm/MHz) |       |      |      |      |       |          |      |
| 7.57      |       |      |      |      |       |          |      |

## Band 43\_40MHz\_2TX 3670MHz\_64QAM

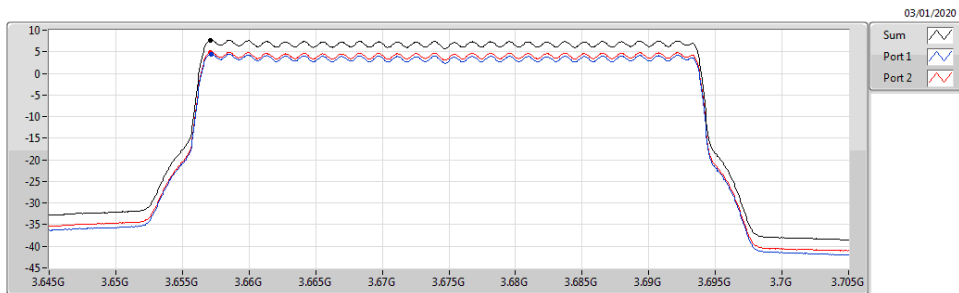
PSD



| PD        | CF    | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|-------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)  | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.47      | 3.67G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.92      | 3.67G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |       |      |      |      |       |          |      |
| (dBm/MHz) |       |      |      |      |       |          |      |
| 7.67      |       |      |      |      |       |          |      |

## Band 43\_40MHz\_2TX 3675MHz\_64QAM

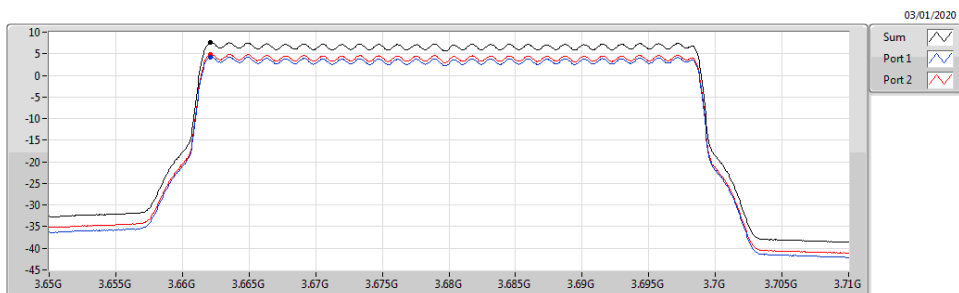
PSD



| PD        | CF     | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|--------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)   | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.49      | 3.675G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.92      | 3.675G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |        |      |      |      |       |          |      |
| (dBm/MHz) |        |      |      |      |       |          |      |
| 7.72      |        |      |      |      |       |          |      |

## Band 43\_40MHz\_2TX 3680MHz\_64QAM

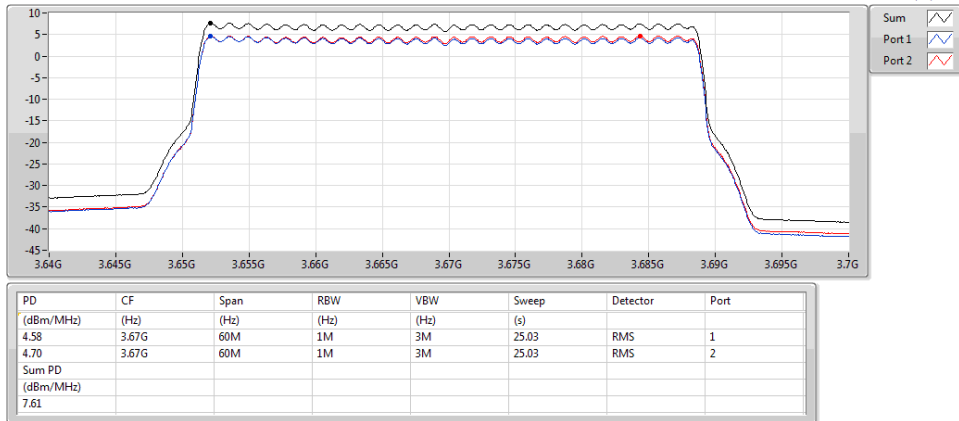
PSD



| PD        | CF    | Span | RBW  | VBW  | Sweep | Detector | Port |
|-----------|-------|------|------|------|-------|----------|------|
| (dBm/MHz) | (Hz)  | (Hz) | (Hz) | (Hz) | (s)   |          |      |
| 4.26      | 3.68G | 60M  | 1M   | 3M   | 25.03 | RMS      | 1    |
| 4.84      | 3.68G | 60M  | 1M   | 3M   | 25.03 | RMS      | 2    |
| Sum PD    |       |      |      |      |       |          |      |
| (dBm/MHz) |       |      |      |      |       |          |      |
| 7.57      |       |      |      |      |       |          |      |

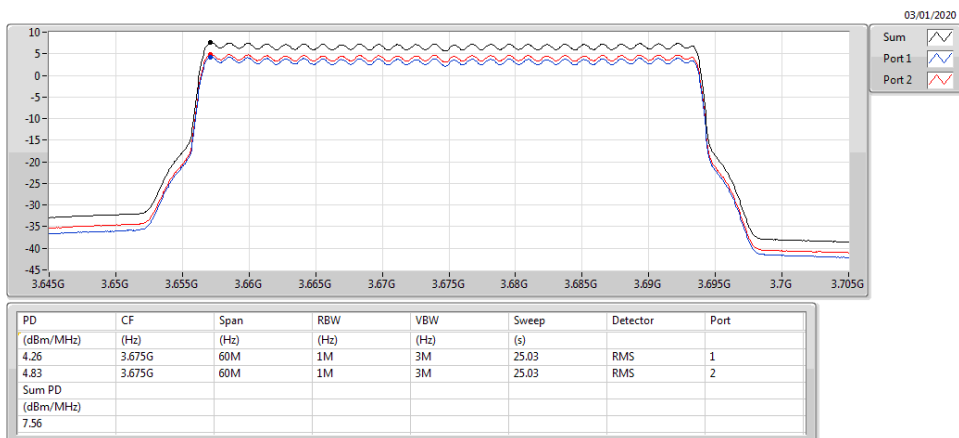
**Band 43\_40MHz\_2TX**  
**3670MHz\_256QAM**

PSD



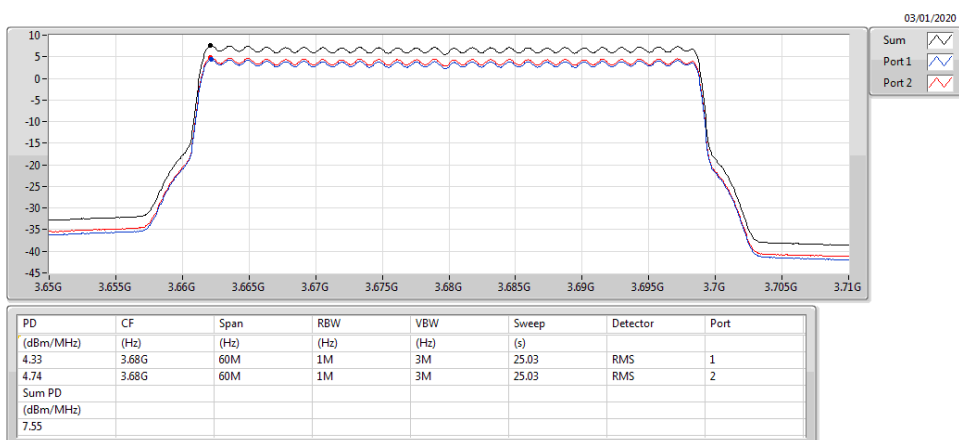
**Band 43\_40MHz\_2TX**  
**3675MHz\_256QAM**

PSD



**Band 43\_40MHz\_2TX**  
**3680MHz\_256QAM**

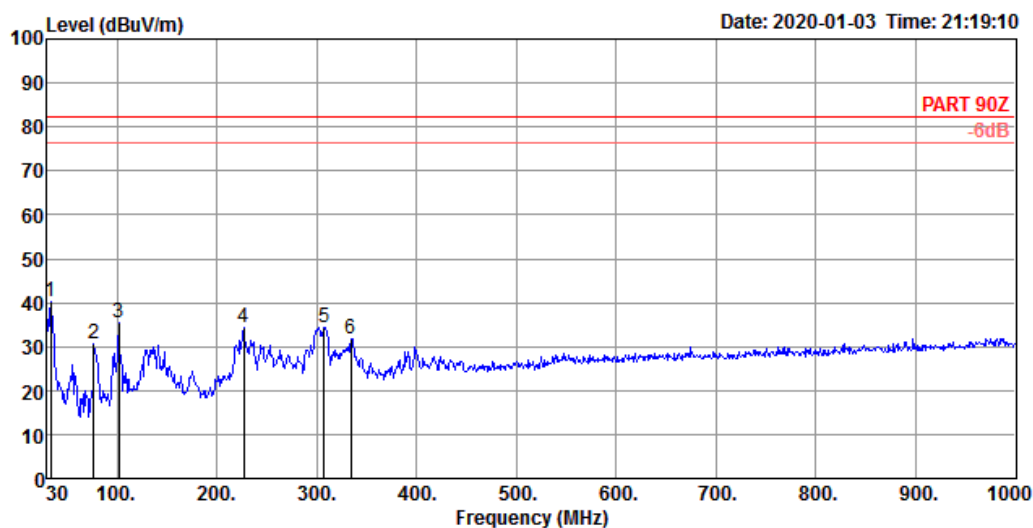
PSD



## Transmitter Radiated Spurious Emissions (30MHz ~ 1GHz)

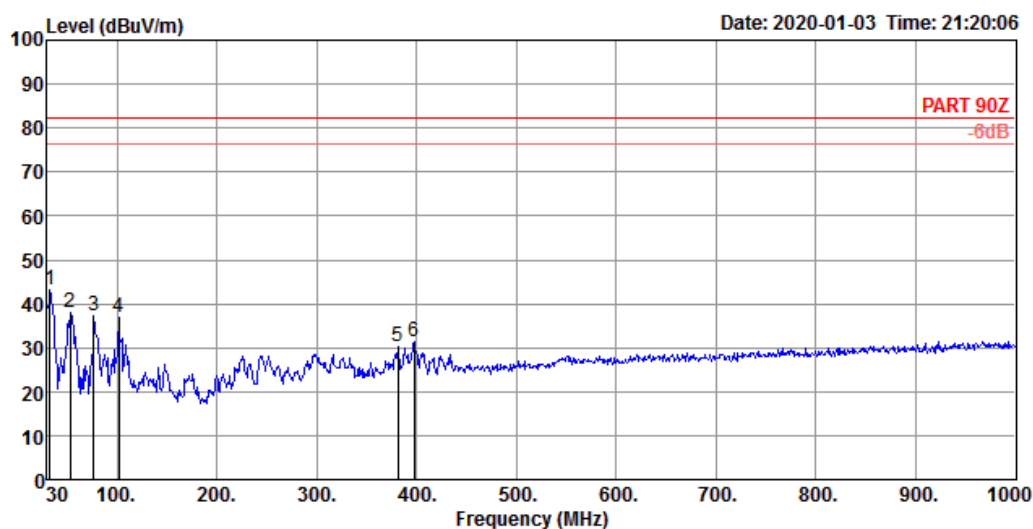
|                |                        |
|----------------|------------------------|
| Configurations | 40MHz: QPSK / 3675 MHz |
|----------------|------------------------|

Horizontal



|   | Freq   | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark   | Pol/Phase  |
|---|--------|--------|--------|--------|-------|--------------|--------|-------|-------|----------|------------|
|   | MHz    | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg      |            |
| 1 | 33.88  | 40.33  | 82.20  | -41.87 | 45.76 | 0.60         | 22.54  | 28.57 | 200   | 359 Peak | HORIZONTAL |
| 2 | 76.56  | 30.56  | 82.20  | -51.64 | 45.72 | 0.70         | 12.64  | 28.50 | 200   | 288 Peak | HORIZONTAL |
| 3 | 101.78 | 35.39  | 82.20  | -46.81 | 46.14 | 0.81         | 16.88  | 28.44 | 300   | 95 Peak  | HORIZONTAL |
| 4 | 226.91 | 34.46  | 82.20  | -47.74 | 45.39 | 1.41         | 15.69  | 28.03 | 100   | 132 Peak | HORIZONTAL |
| 5 | 307.42 | 34.49  | 82.20  | -47.71 | 41.47 | 1.72         | 19.29  | 27.99 | 100   | 225 Peak | HORIZONTAL |
| 6 | 334.58 | 31.79  | 82.20  | -50.41 | 38.52 | 1.77         | 19.73  | 28.23 | 100   | 39 Peak  | HORIZONTAL |

### Vertical



|   | Freq   | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark   | Pol/Phase |
|---|--------|--------|--------|--------|-------|--------------|--------|-------|-------|----------|-----------|
|   | MHz    | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg      |           |
| 1 | 32.91  | 43.00  | 82.20  | -39.20 | 48.10 | 0.60         | 22.87  | 28.57 | 100   | 359 Peak | VERTICAL  |
| 2 | 53.28  | 37.88  | 82.20  | -44.32 | 52.88 | 0.50         | 13.05  | 28.55 | 100   | 350 Peak | VERTICAL  |
| 3 | 76.56  | 37.20  | 82.20  | -45.00 | 52.36 | 0.70         | 12.64  | 28.50 | 150   | 194 Peak | VERTICAL  |
| 4 | 101.78 | 36.87  | 82.20  | -45.33 | 47.62 | 0.81         | 16.88  | 28.44 | 100   | 90 Peak  | VERTICAL  |
| 5 | 381.14 | 30.09  | 82.20  | -52.11 | 35.94 | 1.93         | 20.85  | 28.63 | 100   | 210 Peak | VERTICAL  |
| 6 | 397.63 | 31.38  | 82.20  | -50.82 | 36.58 | 1.99         | 21.58  | 28.77 | 100   | 174 Peak | VERTICAL  |



**Transmitter Radiated Spurious Emissions – Harmonic**

|                       |                        |
|-----------------------|------------------------|
| <b>Configurations</b> | 40MHz: QPSK / 3675 MHz |
|-----------------------|------------------------|

**Horizontal**

|   | Freq     | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|----------|--------|---------------|---------------|---------------|----------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz      | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 14684.78 | 47.84  | 82.20         | -34.36        | 29.66         | 10.49                | 41.70            | 34.01 | 151   | 203    | Average   | HORIZONTAL |

**Vertical**

|   | Freq     | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|----------|--------|---------------|---------------|---------------|----------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz      | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 14683.95 | 47.72  | 82.20         | -34.48        | 29.54         | 10.49                | 41.70            | 34.01 | 152   | 120    | Average   | VERTICAL |

**For 5MHz:  
Summary**

| Mode            | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|-----------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| Band 43         | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 5MHz_QPSK_2TX   | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7015G      | -38.40         | -13.00         | -25.40         | -      | -                 |
| 5MHz_16QAM_2TX  | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -37.76         | -13.00         | -24.76         | -      | -                 |
| 5MHz_64QAM_2TX  | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -37.82         | -13.00         | -24.82         | -      | -                 |
| 5MHz_256QAM_2TX | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -38.12         | -13.00         | -25.12         | -      | -                 |



## Result

| Mode                   | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| Band 43_5MHz_QPSK_2TX  | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3652.5MHz              | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 122.223k     | -54.66         | -13.00         | -41.66         | -      | -                 |
| 3652.5MHz              | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -48.78         | -13.00         | -35.78         | -      | -                 |
| 3652.5MHz              | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.35245G     | -42.33         | -13.00         | -29.33         | -      | -                 |
| 3652.5MHz              | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 2.58739G     | -40.19         | -13.00         | -27.19         | -      | -                 |
| 3652.5MHz              | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -38.62         | -13.00         | -25.62         | -      | -                 |
| 3652.5MHz              | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64999G     | -44.15         | -13.00         | -31.15         | -      | -                 |
| 3652.5MHz              | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70077G     | -54.17         | -13.00         | -41.17         | -      | -                 |
| 3652.5MHz              | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7045G      | -44.04         | -13.00         | -31.04         | -      | -                 |
| 3652.5MHz              | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.82159G     | -43.16         | -13.00         | -30.16         | -      | -                 |
| 3652.5MHz              | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.98775G    | -43.61         | -13.00         | -30.61         | -      | -                 |
| 3675MHz                | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 115.067k     | -53.84         | -13.00         | -40.84         | -      | -                 |
| 3675MHz                | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 187.312k     | -50.61         | -13.00         | -37.61         | -      | -                 |
| 3675MHz                | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.45645G     | -43.11         | -13.00         | -30.11         | -      | -                 |
| 3675MHz                | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.21334G     | -40.05         | -13.00         | -27.05         | -      | -                 |
| 3675MHz                | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6475G      | -44.65         | -13.00         | -31.65         | -      | -                 |
| 3675MHz                | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64999G     | -54.19         | -13.00         | -41.19         | -      | -                 |
| 3675MHz                | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.7005G      | -53.97         | -13.00         | -40.97         | -      | -                 |
| 3675MHz                | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7015G      | -44.06         | -13.00         | -31.06         | -      | -                 |
| 3675MHz                | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.82094G     | -43.09         | -13.00         | -30.09         | -      | -                 |
| 3675MHz                | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9965G     | -43.74         | -13.00         | -30.74         | -      | -                 |
| 3697.5MHz              | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 115.631k     | -52.51         | -13.00         | -39.51         | -      | -                 |
| 3697.5MHz              | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 164.925k     | -50.27         | -13.00         | -37.27         | -      | -                 |
| 3697.5MHz              | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.40592G     | -42.84         | -13.00         | -29.84         | -      | -                 |
| 3697.5MHz              | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.60549G     | -39.90         | -13.00         | -26.90         | -      | -                 |
| 3697.5MHz              | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6475G      | -44.74         | -13.00         | -31.74         | -      | -                 |
| 3697.5MHz              | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64936G     | -54.84         | -13.00         | -41.84         | -      | -                 |
| 3697.5MHz              | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.7G         | -43.46         | -13.00         | -30.46         | -      | -                 |
| 3697.5MHz              | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7015G      | -38.40         | -13.00         | -25.40         | -      | -                 |
| 3697.5MHz              | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.834G       | -43.28         | -13.00         | -30.28         | -      | -                 |
| 3697.5MHz              | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.986G      | -43.83         | -13.00         | -30.83         | -      | -                 |
| Band 43_5MHz_16QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3652.5MHz              | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 122.434k     | -52.36         | -13.00         | -39.36         | -      | -                 |
| 3652.5MHz              | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -48.68         | -13.00         | -35.68         | -      | -                 |
| 3652.5MHz              | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.40647G     | -42.59         | -13.00         | -29.59         | -      | -                 |
| 3652.5MHz              | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.11142G     | -40.04         | -13.00         | -27.04         | -      | -                 |
| 3652.5MHz              | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -37.76         | -13.00         | -24.76         | -      | -                 |
| 3652.5MHz              | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64999G     | -43.30         | -13.00         | -30.30         | -      | -                 |
| 3652.5MHz              | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70039G     | -54.31         | -13.00         | -41.31         | -      | -                 |
| 3652.5MHz              | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7065G      | -44.10         | -13.00         | -31.10         | -      | -                 |
| 3652.5MHz              | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.79949G     | -43.26         | -13.00         | -30.26         | -      | -                 |
| 3652.5MHz              | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.93G       | -43.81         | -13.00         | -30.81         | -      | -                 |
| 3675MHz                | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 117.782k     | -53.83         | -13.00         | -40.83         | -      | -                 |
| 3675MHz                | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -49.32         | -13.00         | -36.32         | -      | -                 |
| 3675MHz                | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.47758G     | -42.70         | -13.00         | -29.70         | -      | -                 |
| 3675MHz                | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.21066G     | -40.54         | -13.00         | -27.54         | -      | -                 |
| 3675MHz                | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -44.69         | -13.00         | -31.69         | -      | -                 |
| 3675MHz                | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64973G     | -54.92         | -13.00         | -41.92         | -      | -                 |
| 3675MHz                | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70032G     | -54.32         | -13.00         | -41.32         | -      | -                 |
| 3675MHz                | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7065G      | -44.04         | -13.00         | -31.04         | -      | -                 |
| 3675MHz                | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.80917G     | -43.07         | -13.00         | -30.07         | -      | -                 |
| 3675MHz                | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9475G     | -43.97         | -13.00         | -30.97         | -      | -                 |
| 3697.5MHz              | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 115.032k     | -52.23         | -13.00         | -39.23         | -      | -                 |



## CSE-TX-Sum Result

## Appendix D

| Mode                    | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|-------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| 3697.5MHz               | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 164.925k     | -47.19         | -13.00         | -34.19         | -      | -                 |
| 3697.5MHz               | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.36237G     | -42.33         | -13.00         | -29.33         | -      | -                 |
| 3697.5MHz               | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.23206G     | -39.92         | -13.00         | -26.92         | -      | -                 |
| 3697.5MHz               | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6455G      | -44.71         | -13.00         | -31.71         | -      | -                 |
| 3697.5MHz               | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64927G     | -54.96         | -13.00         | -41.96         | -      | -                 |
| 3697.5MHz               | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.7G         | -43.40         | -13.00         | -30.40         | -      | -                 |
| 3697.5MHz               | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7015G      | -38.53         | -13.00         | -25.53         | -      | -                 |
| 3697.5MHz               | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.81417G     | -43.06         | -13.00         | -30.06         | -      | -                 |
| 3697.5MHz               | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.853G      | -43.90         | -13.00         | -30.90         | -      | -                 |
| Band 43_5MHz_64QAM_2TX  | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3652.5MHz               | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 122.399k     | -53.29         | -13.00         | -40.29         | -      | -                 |
| 3652.5MHz               | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -48.47         | -13.00         | -35.47         | -      | -                 |
| 3652.5MHz               | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.42742G     | -42.49         | -13.00         | -29.49         | -      | -                 |
| 3652.5MHz               | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.54825G     | -39.96         | -13.00         | -26.96         | -      | -                 |
| 3652.5MHz               | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -37.82         | -13.00         | -24.82         | -      | -                 |
| 3652.5MHz               | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64999G     | -43.89         | -13.00         | -30.89         | -      | -                 |
| 3652.5MHz               | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70082G     | -53.89         | -13.00         | -40.89         | -      | -                 |
| 3652.5MHz               | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7085G      | -44.09         | -13.00         | -31.09         | -      | -                 |
| 3652.5MHz               | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.7695G      | -43.11         | -13.00         | -30.11         | -      | -                 |
| 3652.5MHz               | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.99825G    | -43.93         | -13.00         | -30.93         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 122.399k     | -52.82         | -13.00         | -39.82         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 194.775k     | -48.78         | -13.00         | -35.78         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.42374G     | -42.62         | -13.00         | -29.62         | -      | -                 |
| 3675MHz                 | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.18365G     | -39.65         | -13.00         | -26.65         | -      | -                 |
| 3675MHz                 | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -44.65         | -13.00         | -31.65         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.6497G      | -54.74         | -13.00         | -41.74         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.7001G      | -54.09         | -13.00         | -41.09         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7065G      | -44.10         | -13.00         | -31.10         | -      | -                 |
| 3675MHz                 | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.77418G     | -43.11         | -13.00         | -30.11         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.986G      | -43.87         | -13.00         | -30.87         | -      | -                 |
| 3697.5MHz               | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 120.038k     | -53.18         | -13.00         | -40.18         | -      | -                 |
| 3697.5MHz               | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 172.388k     | -48.88         | -13.00         | -35.88         | -      | -                 |
| 3697.5MHz               | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.31515G     | -43.28         | -13.00         | -30.28         | -      | -                 |
| 3697.5MHz               | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.19675G     | -40.30         | -13.00         | -27.30         | -      | -                 |
| 3697.5MHz               | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6455G      | -44.72         | -13.00         | -31.72         | -      | -                 |
| 3697.5MHz               | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64969G     | -54.70         | -13.00         | -41.70         | -      | -                 |
| 3697.5MHz               | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70001G     | -43.62         | -13.00         | -30.62         | -      | -                 |
| 3697.5MHz               | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7015G      | -38.40         | -13.00         | -25.40         | -      | -                 |
| 3697.5MHz               | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.82126G     | -43.04         | -13.00         | -30.04         | -      | -                 |
| 3697.5MHz               | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.97725G    | -43.75         | -13.00         | -30.75         | -      | -                 |
| Band 43_5MHz_256QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3652.5MHz               | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 120.707k     | -53.03         | -13.00         | -40.03         | -      | -                 |
| 3652.5MHz               | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 164.925k     | -48.85         | -13.00         | -35.85         | -      | -                 |
| 3652.5MHz               | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.30633G     | -42.74         | -13.00         | -29.74         | -      | -                 |
| 3652.5MHz               | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.17214G     | -40.52         | -13.00         | -27.52         | -      | -                 |
| 3652.5MHz               | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -38.12         | -13.00         | -25.12         | -      | -                 |
| 3652.5MHz               | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.65G        | -42.56         | -13.00         | -29.56         | -      | -                 |
| 3652.5MHz               | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70015G     | -54.13         | -13.00         | -41.13         | -      | -                 |
| 3652.5MHz               | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7085G      | -44.08         | -13.00         | -31.08         | -      | -                 |
| 3652.5MHz               | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.82933G     | -43.19         | -13.00         | -30.19         | -      | -                 |
| 3652.5MHz               | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9405G     | -43.75         | -13.00         | -30.75         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 116.794k     | -53.28         | -13.00         | -40.28         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -48.68         | -13.00         | -35.68         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.18322G     | -42.88         | -13.00         | -29.88         | -      | -                 |



## CSE-TX-Sum Result

## Appendix D

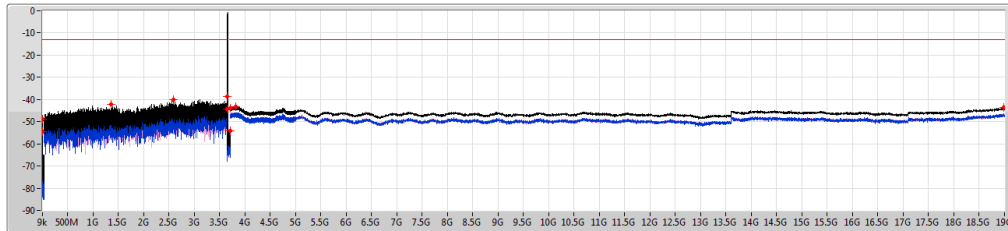
| Mode      | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|-----------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| 3675MHz   | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 3.24945G     | -38.67         | -13.00         | -25.67         | -      | -                 |
| 3675MHz   | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6455G      | -44.70         | -13.00         | -31.70         | -      | -                 |
| 3675MHz   | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64972G     | -54.84         | -13.00         | -41.84         | -      | -                 |
| 3675MHz   | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.70013G     | -53.53         | -13.00         | -40.53         | -      | -                 |
| 3675MHz   | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7045G      | -44.05         | -13.00         | -31.05         | -      | -                 |
| 3675MHz   | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.77902G     | -43.23         | -13.00         | -30.23         | -      | -                 |
| 3675MHz   | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9405G     | -43.85         | -13.00         | -30.85         | -      | -                 |
| 3697.5MHz | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 117.394k     | -54.43         | -13.00         | -41.43         | -      | -                 |
| 3697.5MHz | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 157.462k     | -47.97         | -13.00         | -34.97         | -      | -                 |
| 3697.5MHz | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.24992G     | -42.65         | -13.00         | -29.65         | -      | -                 |
| 3697.5MHz | Pass   | 1.5G            | 3.64G          | 1M          | 3M          | RMS      | 2.67245G     | -40.03         | -13.00         | -27.03         | -      | -                 |
| 3697.5MHz | Pass   | 3.64G           | 3.649G         | 51k         | 150k        | RMS      | 3.6485G      | -44.72         | -13.00         | -31.72         | -      | -                 |
| 3697.5MHz | Pass   | 3.649G          | 3.65G          | 51k         | 150k        | RMS      | 3.64948G     | -54.65         | -13.00         | -41.65         | -      | -                 |
| 3697.5MHz | Pass   | 3.7G            | 3.701G         | 51k         | 150k        | RMS      | 3.7G         | -44.02         | -13.00         | -31.02         | -      | -                 |
| 3697.5MHz | Pass   | 3.701G          | 3.71G          | 51k         | 150k        | RMS      | 3.7015G      | -38.50         | -13.00         | -25.50         | -      | -                 |
| 3697.5MHz | Pass   | 3.71G           | 5G             | 1M          | 3M          | RMS      | 3.829G       | -43.24         | -13.00         | -30.24         | -      | -                 |
| 3697.5MHz | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.881G      | -43.77         | -13.00         | -30.77         | -      | -                 |



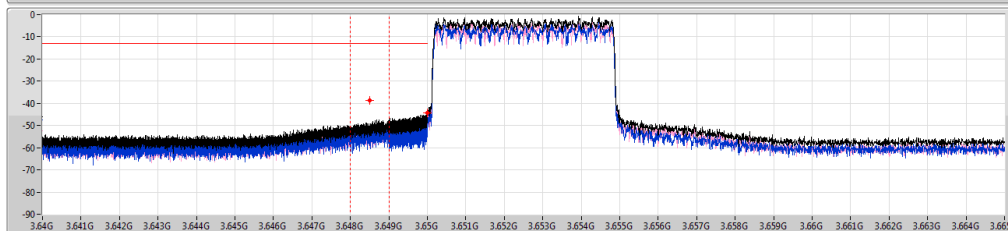
Band 43\_5MHz\_2TX  
3652.5MHz\_QPSK

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2

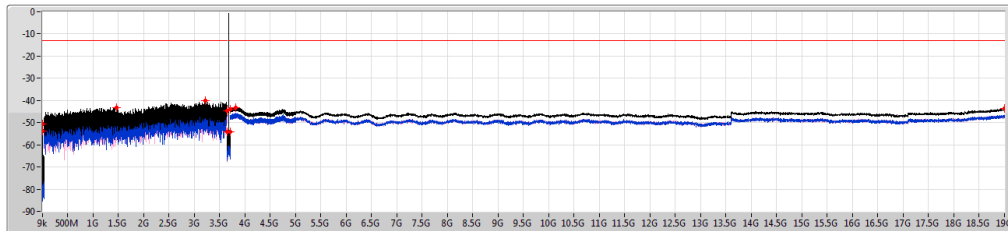


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 122.223k  | -54.66     | -13.00     | -41.66     | -      | -             | -62.01  | -55.54  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -48.78     | -13.00     | -35.78     | -      | -             | -51.24  | -52.42  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.35245G  | -42.33     | -13.00     | -29.33     | -      | -             | -45.25  | -45.43  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 2.58739G  | -40.19     | -13.00     | -27.19     | -      | -             | -46.11  | -41.47  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6485G   | -38.62     | -13.00     | -25.62     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64999G  | -44.15     | -13.00     | -31.15     | -      | -             | -49.67  | -45.58  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.70077G  | -54.17     | -13.00     | -41.17     | -      | -             | -59.92  | -55.52  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7045G   | -44.04     | -13.00     | -31.04     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.82199G  | -43.16     | -13.00     | -30.16     | -      | -             | -46.24  | -46.11  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.98775G | -43.61     | -13.00     | -30.61     | -      | -             | -46.68  | -46.56  |

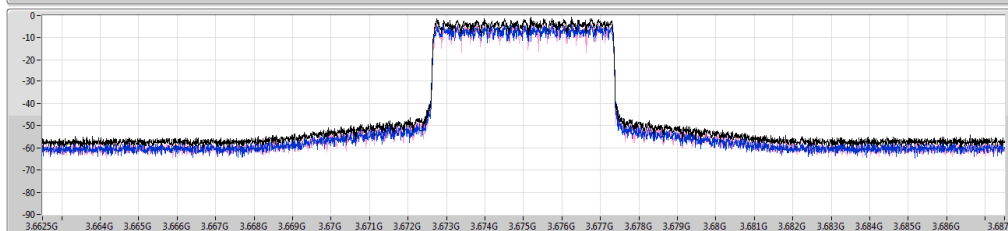
Band 43\_5MHz\_2TX  
3675MHz\_QPSK

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2

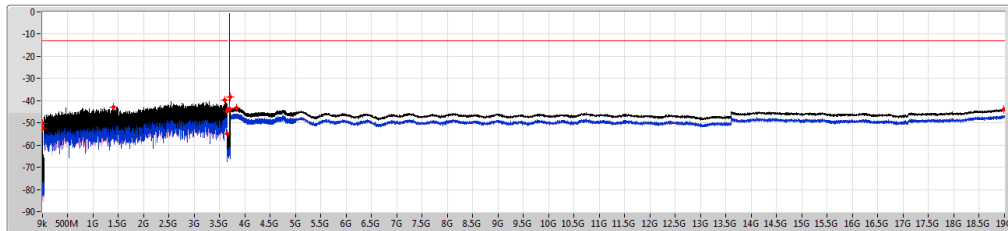


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 115.067k | -53.84     | -13.00     | -40.84     | -      | -             | -56.43  | -57.32  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 187.312k | -50.61     | -13.00     | -37.61     | -      | -             | -56.23  | -52.00  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.45645G | -43.11     | -13.00     | -30.11     | -      | -             | -44.02  | -50.33  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.21334G | -40.05     | -13.00     | -27.05     | -      | -             | -43.05  | -43.08  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6475G  | -44.65     | -13.00     | -31.65     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64999G | -54.19     | -13.00     | -41.19     | -      | -             | -56.82  | -57.62  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.7005G  | -53.97     | -13.00     | -40.97     | -      | -             | -57.35  | -56.64  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7015G  | -44.06     | -13.00     | -31.06     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.82094G | -43.09     | -13.00     | -30.09     | -      | -             | -45.76  | -46.46  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9965G | -43.74     | -13.00     | -30.74     | -      | -             | -46.96  | -46.55  |

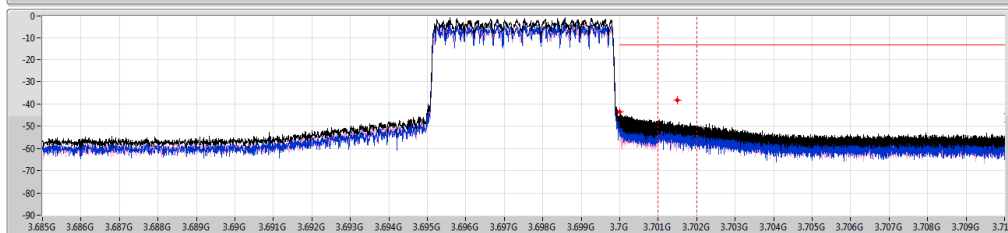
Band 43\_5MHz\_2TX  
3697.5MHz\_QPSK

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2

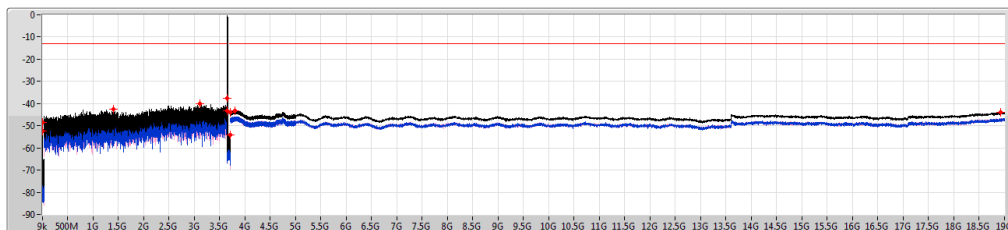


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 115.631k | -52.51     | -13.00     | -39.51     | -      | -             | -55.74  | -55.31  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 164.925k | -50.27     | -13.00     | -37.27     | -      | -             | -54.27  | -52.48  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.40592G | -42.84     | -13.00     | -29.84     | -      | -             | -44.28  | -48.34  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.60549G | -39.90     | -13.00     | -26.90     | -      | -             | -43.00  | -42.82  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6475G  | -44.74     | -13.00     | -31.74     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64936G | -54.84     | -13.00     | -41.84     | -      | -             | -56.30  | -60.28  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.7G     | -43.46     | -13.00     | -30.46     | -      | -             | -44.88  | -48.99  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7015G  | -38.40     | -13.00     | -25.40     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.834G   | -43.28     | -13.00     | -30.28     | -      | -             | -46.22  | -46.36  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.986G  | -43.83     | -13.00     | -30.83     | -      | -             | -46.93  | -46.75  |

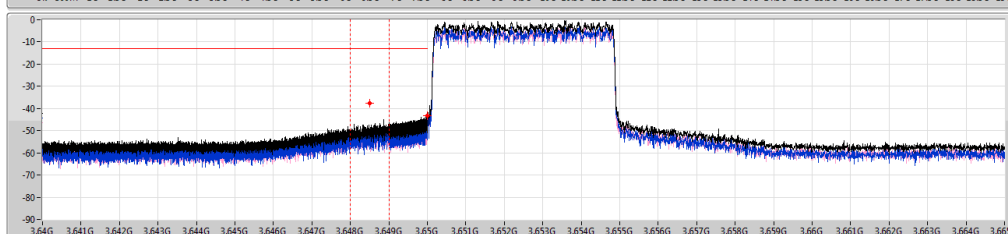
Band 43\_5MHz\_2TX  
3652.5MHz\_16QAM

CSE-TX-Sum

02/01/2020



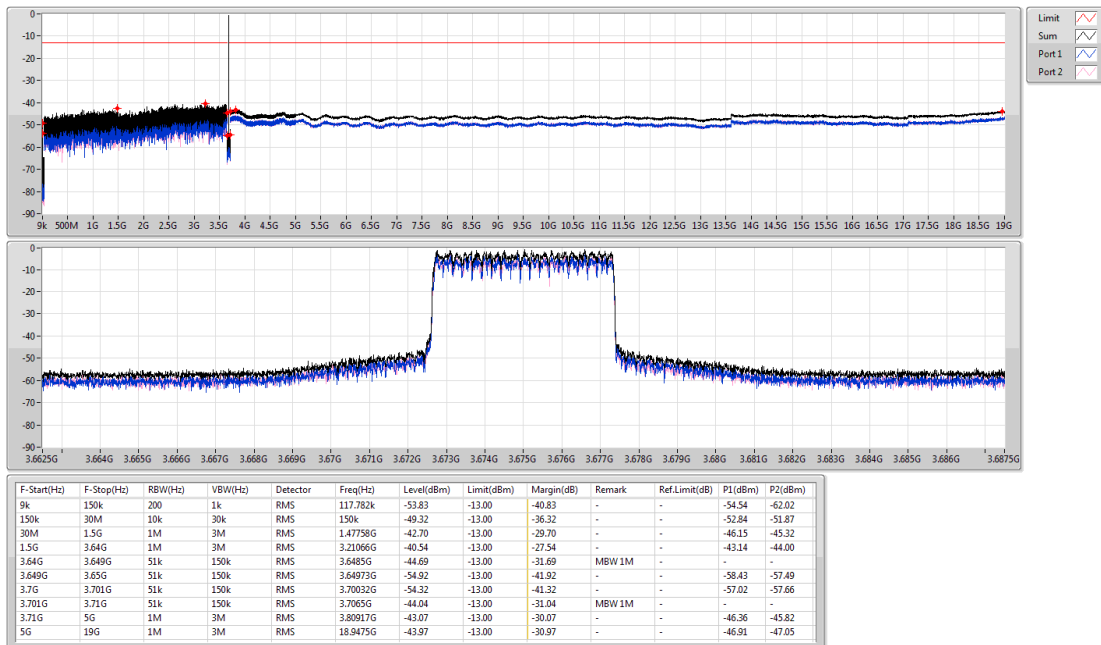
Limit  
Sum  
Port 1  
Port 2



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 122.434k | -52.36     | -13.00     | -39.36     | -      | -             | -69.40  | -52.45  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -48.68     | -13.00     | -35.68     | -      | -             | -50.69  | -53.00  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.40647G | -42.59     | -13.00     | -29.59     | -      | -             | -50.25  | -43.41  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.11142G | -40.04     | -13.00     | -27.04     | -      | -             | -43.00  | -43.11  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6485G  | -37.76     | -13.00     | -24.76     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64999G | -43.30     | -13.00     | -30.30     | -      | -             | -45.94  | -46.71  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.70039G | -54.31     | -13.00     | -41.31     | -      | -             | -58.13  | -56.64  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7065G  | -44.10     | -13.00     | -31.10     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.79949G | -43.26     | -13.00     | -30.26     | -      | -             | -46.00  | -46.56  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.93G   | -43.81     | -13.00     | -30.81     | -      | -             | -47.06  | -46.60  |

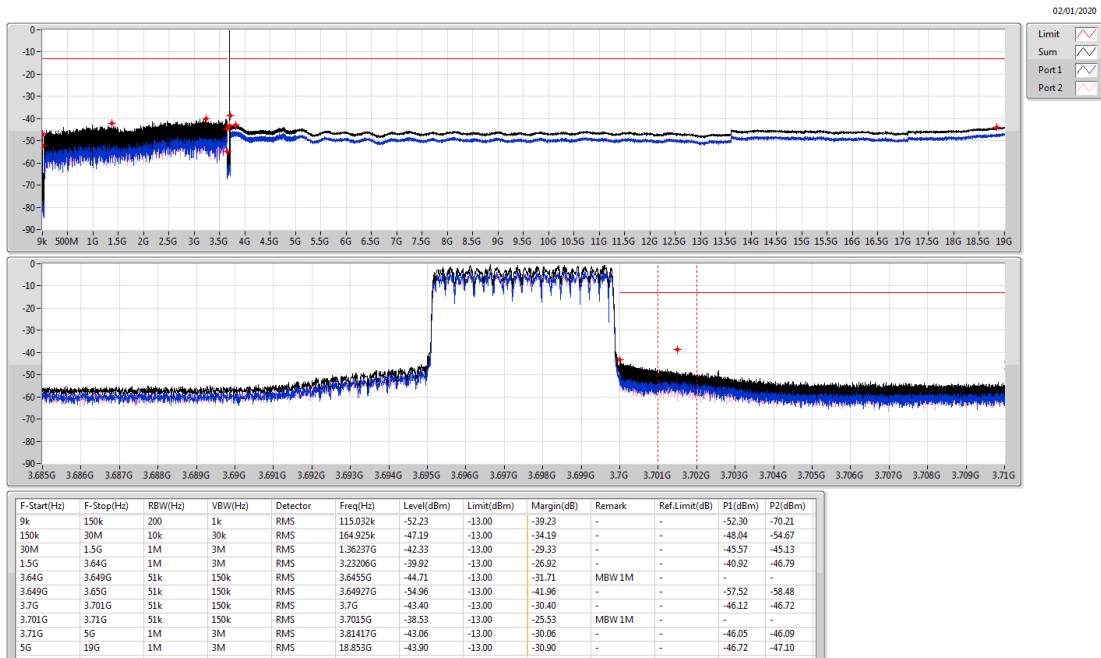
Band 43\_5MHz\_2TX  
3675MHz\_16QAM

CSE-TX-Sum



Band 43\_5MHz\_2TX  
3697.5MHz\_16QAM

CSE-TX-Sum

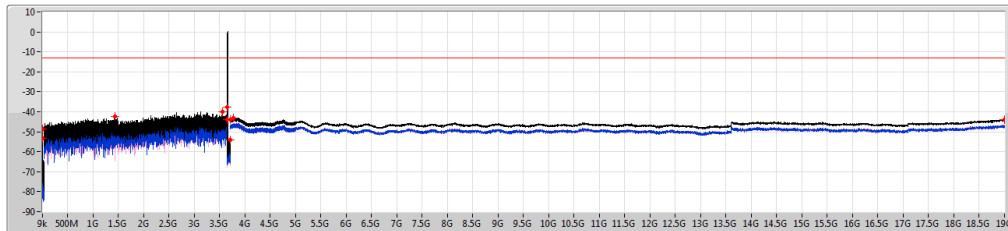




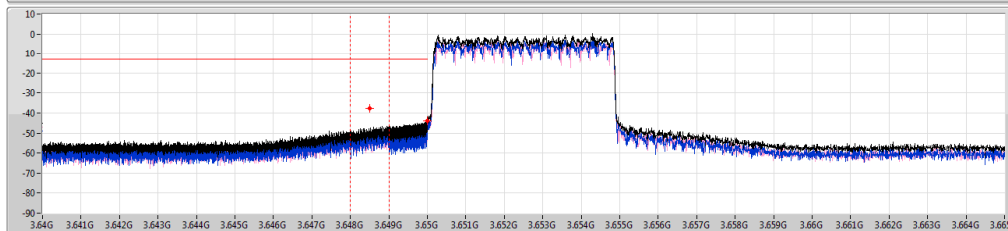
Band 43\_5MHz\_2TX  
3652.5MHz\_64QAM

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2

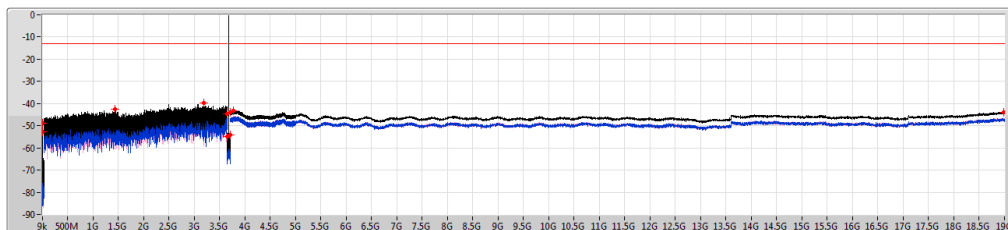


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 122.399k  | -53.29     | -13.00     | -40.29     | -      | -             | -53.44  | -68.11  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -48.47     | -13.00     | -35.47     | -      | -             | -51.32  | -51.64  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.42742G  | -42.49     | -13.00     | -29.49     | -      | -             | -45.07  | -45.97  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.54825G  | -39.96     | -13.00     | -26.96     | -      | -             | -42.81  | -43.13  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6485G   | -37.82     | -13.00     | -24.82     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64999G  | -43.89     | -13.00     | -30.89     | -      | -             | -46.75  | -47.06  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.70082G  | -53.89     | -13.00     | -40.89     | -      | -             | -54.91  | -60.68  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7085G   | -44.09     | -13.00     | -31.09     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.7695G   | -43.11     | -13.00     | -30.11     | -      | -             | -46.40  | -45.85  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.99825G | -43.93     | -13.00     | -30.93     | -      | -             | -46.86  | -47.02  |

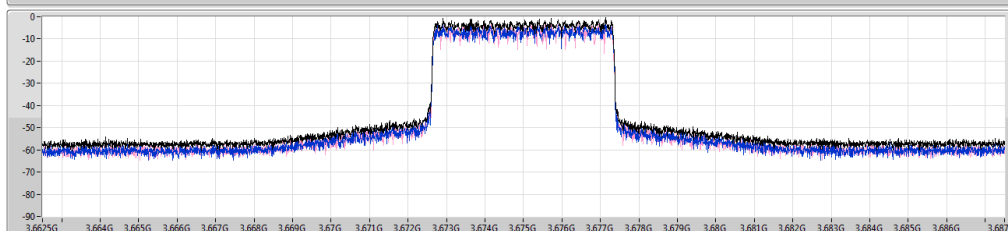
Band 43\_5MHz\_2TX  
3675MHz\_64QAM

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2



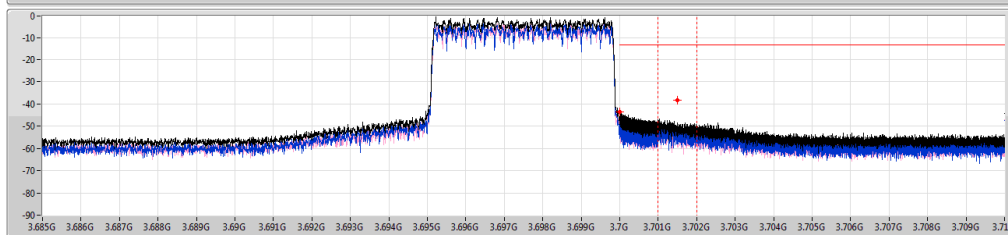
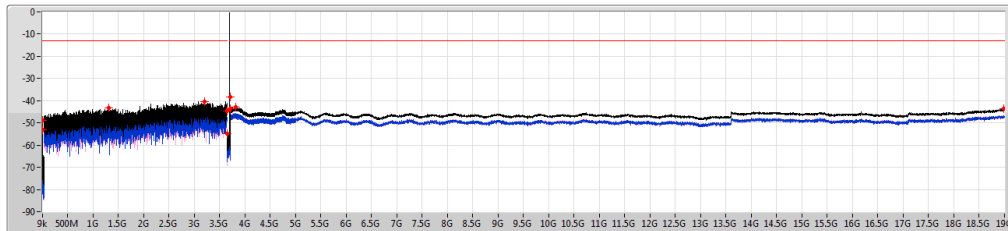
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 122.399k | -52.82     | -13.00     | -39.82     | -      | -             | -53.01  | -66.56  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 194.775k | -48.78     | -13.00     | -35.78     | -      | -             | -51.37  | -52.26  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.42374G | -42.62     | -13.00     | -29.62     | -      | -             | -46.57  | -44.85  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.18365G | -39.65     | -13.00     | -26.65     | -      | -             | -43.83  | -41.74  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6485G  | -44.65     | -13.00     | -31.65     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.6497G  | -54.74     | -13.00     | -41.74     | -      | -             | -59.26  | -56.63  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.7001G  | -54.09     | -13.00     | -41.09     | -      | -             | -55.73  | -59.12  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7065G  | -44.10     | -13.00     | -31.10     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.77418G | -43.11     | -13.00     | -30.11     | -      | -             | -45.89  | -46.37  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.986G  | -43.87     | -13.00     | -30.87     | -      | -             | -47.08  | -46.68  |



Band 43\_5MHz\_2TX  
3697.5MHz\_64QAM

CSE-TX-Sum

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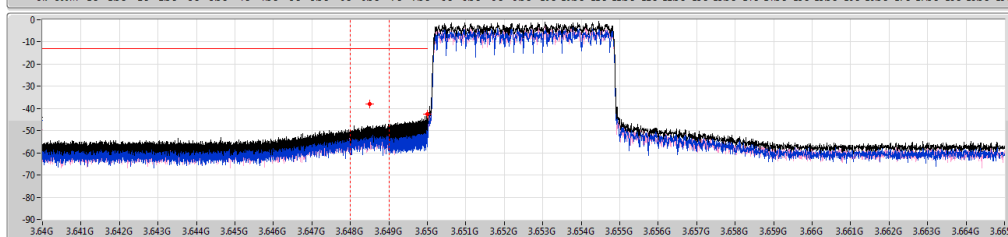
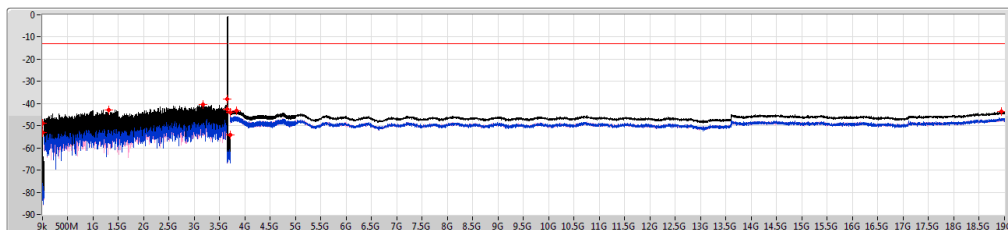


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 120.038k  | -53.18     | -13.00     | -40.18     | -      | -             | -63.34  | -53.62  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 172.388k  | -48.88     | -13.00     | -35.88     | -      | -             | -53.60  | -50.66  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.31515G  | -43.28     | -13.00     | -30.28     | -      | -             | -46.82  | -45.81  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.19675G  | -40.30     | -13.00     | -27.30     | -      | -             | -40.73  | -50.56  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6455G   | -44.72     | -13.00     | -31.72     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64969G  | -54.70     | -13.00     | -41.70     | -      | -             | -58.43  | -57.09  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.70001G  | -43.62     | -13.00     | -30.62     | -      | -             | -46.16  | -47.15  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7015G   | -38.40     | -13.00     | -25.40     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.82126G  | -43.04     | -13.00     | -30.04     | -      | -             | -45.83  | -46.29  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.97725G | -43.75     | -13.00     | -30.75     | -      | -             | -46.80  | -46.72  |

Band 43\_5MHz\_2TX  
3652.5MHz\_256QAM

CSE-TX-Sum

02/01/2020



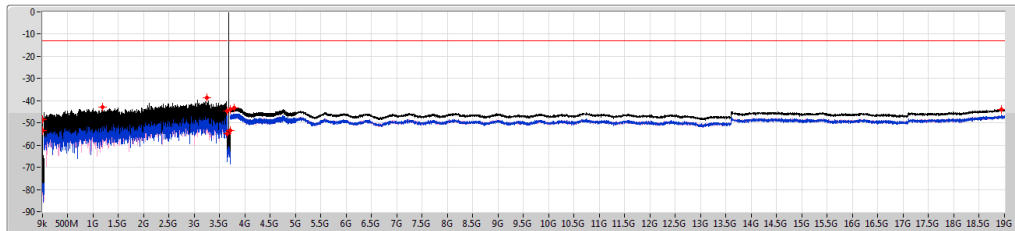
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 120.707k | -53.03     | -13.00     | -40.03     | -      | -             | -59.98  | -54.01  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 164.923k | -48.85     | -13.00     | -35.85     | -      | -             | -57.27  | -49.53  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.30633G | -42.74     | -13.00     | -29.74     | -      | -             | -46.08  | -44.24  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.17214G | -40.52     | -13.00     | -27.52     | -      | -             | -44.76  | -42.58  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6485G  | -38.12     | -13.00     | -25.12     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.65G    | -42.56     | -13.00     | -29.56     | -      | -             | -44.57  | -46.87  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.70015G | -54.13     | -13.00     | -41.13     | -      | -             | -59.50  | -55.62  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7085G  | -44.08     | -13.00     | -31.08     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.82933G | -43.19     | -13.00     | -30.19     | -      | -             | -46.54  | -45.88  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9405G | -43.75     | -13.00     | -30.75     | -      | -             | -46.86  | -46.67  |



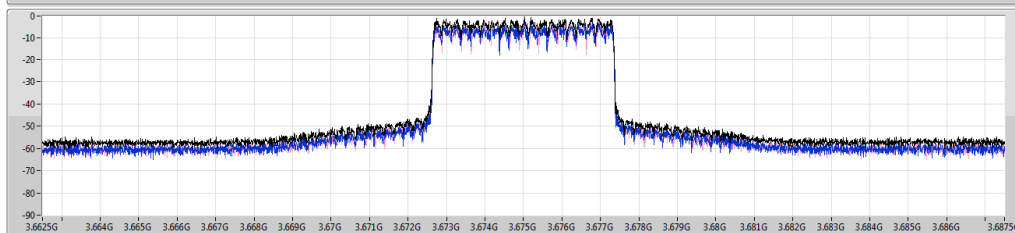
Band 43\_5MHz\_2TX  
3675MHz\_256QAM

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2

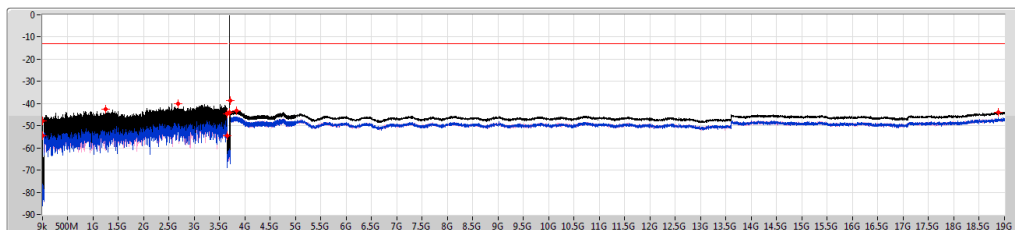


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 116.794k | -53.28     | -13.00     | -40.28     | -      | -             | -66.18  | -53.51  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -48.68     | -13.00     | -35.68     | -      | -             | -53.04  | -50.66  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.18322G | -42.88     | -13.00     | -29.88     | -      | -             | -43.02  | -57.85  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 3.24945G | -38.67     | -13.00     | -25.67     | -      | -             | -42.89  | -40.73  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6455G  | -44.70     | -13.00     | -31.70     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64972G | -54.84     | -13.00     | -41.84     | -      | -             | -56.43  | -59.98  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.70013G | -53.53     | -13.00     | -40.53     | -      | -             | -58.54  | -55.17  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7045G  | -44.05     | -13.00     | -31.05     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.77902G | -43.23     | -13.00     | -30.23     | -      | -             | -46.60  | -45.90  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9405G | -43.85     | -13.00     | -30.85     | -      | -             | -46.58  | -47.16  |

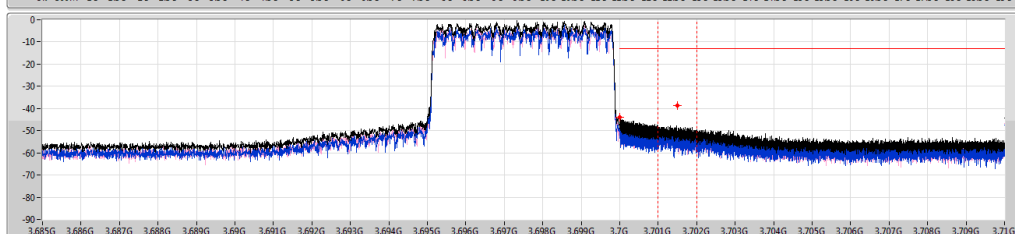
Band 43\_5MHz\_2TX  
3697.5MHz\_256QAM

CSE-TX-Sum

02/01/2020



Limit  
Sum  
Port 1  
Port 2



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 117.394k | -54.43     | -13.00     | -41.43     | -      | -             | -56.64  | -58.43  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 157.463k | -47.97     | -13.00     | -34.97     | -      | -             | -50.79  | -51.17  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.24992G | -42.65     | -13.00     | -29.65     | -      | -             | -46.87  | -44.72  |
| 1.5G        | 3.64G      | 1M      | 3M      | RMS      | 2.67245G | -40.03     | -13.00     | -27.03     | -      | -             | -42.71  | -43.40  |
| 3.64G       | 3.649G     | 51k     | 150k    | RMS      | 3.6485G  | -44.72     | -13.00     | -31.72     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 51k     | 150k    | RMS      | 3.64948G | -54.65     | -13.00     | -41.65     | -      | -             | -59.94  | -56.17  |
| 3.7G        | 3.701G     | 51k     | 150k    | RMS      | 3.7G     | -44.02     | -13.00     | -31.02     | -      | -             | -48.07  | -46.20  |
| 3.701G      | 3.71G      | 51k     | 150k    | RMS      | 3.7015G  | -38.50     | -13.00     | -25.50     | MBW 1M | -             | -       | -       |
| 3.71G       | 5G         | 1M      | 3M      | RMS      | 3.829G   | -43.24     | -13.00     | -30.24     | -      | -             | -46.18  | -46.32  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.881G  | -43.77     | -13.00     | -30.77     | -      | -             | -46.45  | -47.13  |



**For 10MHz and 40MHz:  
Summary**

| Mode             | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| Band 43          | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 10MHz_QPSK_2TX   | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -36.63         | -13.00         | -23.63         | -      | -                 |
| 10MHz_16QAM_2TX  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -36.31         | -13.00         | -23.31         | -      | -                 |
| 10MHz_64QAM_2TX  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -36.10         | -13.00         | -23.10         | -      | -                 |
| 10MHz_256QAM_2TX | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -35.08         | -13.00         | -22.08         | -      | -                 |
| 40MHz_QPSK_2TX   | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64958G     | -30.76         | -13.00         | -17.76         | -      | -                 |
| 40MHz_16QAM_2TX  | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -30.69         | -13.00         | -17.69         | -      | -                 |
| 40MHz_64QAM_2TX  | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -30.41         | -13.00         | -17.41         | -      | -                 |
| 40MHz_256QAM_2TX | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.6498G      | -30.65         | -13.00         | -17.65         | -      | -                 |



## Result

| Mode                    | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|-------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| Band 43_10MHz_QPSK_2TX  | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3655MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 121.73k      | -52.70         | -13.00         | -39.70         | -      | -                 |
| 3655MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -46.44         | -13.00         | -33.44         | -      | -                 |
| 3655MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.05845G     | -42.28         | -13.00         | -29.28         | -      | -                 |
| 3655MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.63G        | -40.27         | -13.00         | -27.27         | -      | -                 |
| 3655MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -36.63         | -13.00         | -23.63         | -      | -                 |
| 3655MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.65G        | -41.66         | -13.00         | -28.66         | -      | -                 |
| 3655MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70049G     | -51.98         | -13.00         | -38.98         | -      | -                 |
| 3655MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7065G      | -44.38         | -13.00         | -31.38         | -      | -                 |
| 3655MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.84784G     | -43.09         | -13.00         | -30.09         | -      | -                 |
| 3655MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 19G          | -43.84         | -13.00         | -30.84         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 114.856k     | -54.61         | -13.00         | -41.61         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -50.85         | -13.00         | -37.85         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.04981G     | -42.69         | -13.00         | -29.69         | -      | -                 |
| 3675MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.21625G     | -39.94         | -13.00         | -26.94         | -      | -                 |
| 3675MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -44.77         | -13.00         | -31.77         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.6497G      | -52.56         | -13.00         | -39.56         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70019G     | -52.13         | -13.00         | -39.13         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7085G      | -44.26         | -13.00         | -31.26         | -      | -                 |
| 3675MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.83248G     | -43.05         | -13.00         | -30.05         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.93175G    | -43.73         | -13.00         | -30.73         | -      | -                 |
| 3695MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 122.434k     | -53.27         | -13.00         | -40.27         | -      | -                 |
| 3695MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -48.68         | -13.00         | -35.68         | -      | -                 |
| 3695MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.41621G     | -42.73         | -13.00         | -29.73         | -      | -                 |
| 3695MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.62681G     | -40.11         | -13.00         | -27.11         | -      | -                 |
| 3695MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6475G      | -44.90         | -13.00         | -31.90         | -      | -                 |
| 3695MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.64917G     | -52.64         | -13.00         | -39.64         | -      | -                 |
| 3695MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70002G     | -42.48         | -13.00         | -29.48         | -      | -                 |
| 3695MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7015G      | -37.48         | -13.00         | -24.48         | -      | -                 |
| 3695MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.85136G     | -43.04         | -13.00         | -30.04         | -      | -                 |
| 3695MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.902G      | -43.81         | -13.00         | -30.81         | -      | -                 |
| Band 43_10MHz_16QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3655MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 117.288k     | -54.84         | -13.00         | -41.84         | -      | -                 |
| 3655MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 164.925k     | -50.28         | -13.00         | -37.28         | -      | -                 |
| 3655MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.28391G     | -42.62         | -13.00         | -29.62         | -      | -                 |
| 3655MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.06502G     | -40.31         | -13.00         | -27.31         | -      | -                 |
| 3655MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -36.31         | -13.00         | -23.31         | -      | -                 |
| 3655MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.65G        | -41.42         | -13.00         | -28.42         | -      | -                 |
| 3655MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70025G     | -52.29         | -13.00         | -39.29         | -      | -                 |
| 3655MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7175G      | -44.35         | -13.00         | -31.35         | -      | -                 |
| 3655MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.82032G     | -43.16         | -13.00         | -30.16         | -      | -                 |
| 3655MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 19G          | -43.68         | -13.00         | -30.68         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 119.861k     | -54.88         | -13.00         | -41.88         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 179.85k      | -48.17         | -13.00         | -35.17         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.47042G     | -41.97         | -13.00         | -28.97         | -      | -                 |
| 3675MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.14356G     | -40.21         | -13.00         | -27.21         | -      | -                 |
| 3675MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -44.84         | -13.00         | -31.84         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.6499G      | -52.19         | -13.00         | -39.19         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70037G     | -51.93         | -13.00         | -38.93         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7155G      | -44.28         | -13.00         | -31.28         | -      | -                 |
| 3675MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.8288G      | -42.92         | -13.00         | -29.92         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.95625G    | -43.66         | -13.00         | -30.66         | -      | -                 |
| 3695MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 118.839k     | -51.75         | -13.00         | -38.75         | -      | -                 |



## CSE-TX-Sum Result

## Appendix D

| Mode                     | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|--------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| 3695MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -49.12         | -13.00         | -36.12         | -      | -                 |
| 3695MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.41107G     | -42.17         | -13.00         | -29.17         | -      | -                 |
| 3695MHz                  | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.14303G     | -39.44         | -13.00         | -26.44         | -      | -                 |
| 3695MHz                  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -44.92         | -13.00         | -31.92         | -      | -                 |
| 3695MHz                  | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.64934G     | -52.51         | -13.00         | -39.51         | -      | -                 |
| 3695MHz                  | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70002G     | -41.69         | -13.00         | -28.69         | -      | -                 |
| 3695MHz                  | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7015G      | -37.45         | -13.00         | -24.45         | -      | -                 |
| 3695MHz                  | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.832G       | -43.08         | -13.00         | -30.08         | -      | -                 |
| 3695MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9685G     | -43.82         | -13.00         | -30.82         | -      | -                 |
| Band 43_10MHz_64QAM_2TX  | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3655MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 115.032k     | -54.31         | -13.00         | -41.31         | -      | -                 |
| 3655MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 157.462k     | -47.80         | -13.00         | -34.80         | -      | -                 |
| 3655MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.44543G     | -42.52         | -13.00         | -29.52         | -      | -                 |
| 3655MHz                  | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.60657G     | -39.79         | -13.00         | -26.79         | -      | -                 |
| 3655MHz                  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -36.10         | -13.00         | -23.10         | -      | -                 |
| 3655MHz                  | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.65G        | -41.32         | -13.00         | -28.32         | -      | -                 |
| 3655MHz                  | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70092G     | -52.01         | -13.00         | -39.01         | -      | -                 |
| 3655MHz                  | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7185G      | -44.31         | -13.00         | -31.31         | -      | -                 |
| 3655MHz                  | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.78624G     | -43.10         | -13.00         | -30.10         | -      | -                 |
| 3655MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.98075G    | -43.72         | -13.00         | -30.72         | -      | -                 |
| 3675MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 121.765k     | -52.93         | -13.00         | -39.93         | -      | -                 |
| 3675MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 179.85k      | -49.41         | -13.00         | -36.41         | -      | -                 |
| 3675MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 820.13M      | -42.13         | -13.00         | -29.13         | -      | -                 |
| 3675MHz                  | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.19814G     | -40.61         | -13.00         | -27.61         | -      | -                 |
| 3675MHz                  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -44.94         | -13.00         | -31.94         | -      | -                 |
| 3675MHz                  | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.64928G     | -52.43         | -13.00         | -39.43         | -      | -                 |
| 3675MHz                  | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70083G     | -51.83         | -13.00         | -38.83         | -      | -                 |
| 3675MHz                  | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7025G      | -44.24         | -13.00         | -31.24         | -      | -                 |
| 3675MHz                  | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.82976G     | -42.99         | -13.00         | -29.99         | -      | -                 |
| 3675MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9965G     | -43.82         | -13.00         | -30.82         | -      | -                 |
| 3695MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 119.544k     | -54.40         | -13.00         | -41.40         | -      | -                 |
| 3695MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 172.388k     | -50.02         | -13.00         | -37.02         | -      | -                 |
| 3695MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.49853G     | -42.59         | -13.00         | -29.59         | -      | -                 |
| 3695MHz                  | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.60151G     | -39.97         | -13.00         | -26.97         | -      | -                 |
| 3695MHz                  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -44.92         | -13.00         | -31.92         | -      | -                 |
| 3695MHz                  | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.64946G     | -52.61         | -13.00         | -39.61         | -      | -                 |
| 3695MHz                  | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70002G     | -42.02         | -13.00         | -29.02         | -      | -                 |
| 3695MHz                  | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7015G      | -37.24         | -13.00         | -24.24         | -      | -                 |
| 3695MHz                  | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.83168G     | -43.02         | -13.00         | -30.02         | -      | -                 |
| 3695MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.8845G     | -43.72         | -13.00         | -30.72         | -      | -                 |
| Band 43_10MHz_256QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3655MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 120.566k     | -53.61         | -13.00         | -40.61         | -      | -                 |
| 3655MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 164.925k     | -50.29         | -13.00         | -37.29         | -      | -                 |
| 3655MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.48714G     | -43.03         | -13.00         | -30.03         | -      | -                 |
| 3655MHz                  | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.2048G      | -40.24         | -13.00         | -27.24         | -      | -                 |
| 3655MHz                  | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -35.08         | -13.00         | -22.08         | -      | -                 |
| 3655MHz                  | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.64998G     | -40.10         | -13.00         | -27.10         | -      | -                 |
| 3655MHz                  | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70023G     | -52.36         | -13.00         | -39.36         | -      | -                 |
| 3655MHz                  | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7155G      | -44.31         | -13.00         | -31.31         | -      | -                 |
| 3655MHz                  | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.82096G     | -43.06         | -13.00         | -30.06         | -      | -                 |
| 3655MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.97025G    | -43.75         | -13.00         | -30.75         | -      | -                 |
| 3675MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 116.618k     | -53.95         | -13.00         | -40.95         | -      | -                 |
| 3675MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -49.34         | -13.00         | -36.34         | -      | -                 |
| 3675MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.33279G     | -42.88         | -13.00         | -29.88         | -      | -                 |



## CSE-TX-Sum Result

## Appendix D

| Mode                    | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|-------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| 3675MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.23435G     | -40.47         | -13.00         | -27.47         | -      | -                 |
| 3675MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6485G      | -44.85         | -13.00         | -31.85         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.6498G      | -52.50         | -13.00         | -39.50         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70078G     | -51.86         | -13.00         | -38.86         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7125G      | -44.28         | -13.00         | -31.28         | -      | -                 |
| 3675MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.78512G     | -43.03         | -13.00         | -30.03         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.98425G    | -43.61         | -13.00         | -30.61         | -      | -                 |
| 3695MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 120.249k     | -54.24         | -13.00         | -41.24         | -      | -                 |
| 3695MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 172.388k     | -47.91         | -13.00         | -34.91         | -      | -                 |
| 3695MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.18616G     | -42.68         | -13.00         | -29.68         | -      | -                 |
| 3695MHz                 | Pass   | 1.5G            | 3.63G          | 1M          | 3M          | RMS      | 3.51258G     | -39.86         | -13.00         | -26.86         | -      | -                 |
| 3695MHz                 | Pass   | 3.63G           | 3.649G         | 100k        | 300k        | RMS      | 3.6465G      | -44.91         | -13.00         | -31.91         | -      | -                 |
| 3695MHz                 | Pass   | 3.649G          | 3.65G          | 100k        | 300k        | RMS      | 3.64939G     | -52.59         | -13.00         | -39.59         | -      | -                 |
| 3695MHz                 | Pass   | 3.7G            | 3.701G         | 100k        | 300k        | RMS      | 3.70001G     | -42.00         | -13.00         | -29.00         | -      | -                 |
| 3695MHz                 | Pass   | 3.701G          | 3.72G          | 100k        | 300k        | RMS      | 3.7015G      | -37.37         | -13.00         | -24.37         | -      | -                 |
| 3695MHz                 | Pass   | 3.72G           | 5G             | 1M          | 3M          | RMS      | 3.83968G     | -43.13         | -13.00         | -30.13         | -      | -                 |
| 3695MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9895G     | -43.78         | -13.00         | -30.78         | -      | -                 |
| Band 43_40MHz_QPSK_2TX  | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3670MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 119.227k     | -52.98         | -13.00         | -39.98         | -      | -                 |
| 3670MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 164.925k     | -48.55         | -13.00         | -35.55         | -      | -                 |
| 3670MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 810.02M      | -42.14         | -13.00         | -29.14         | -      | -                 |
| 3670MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.21008G     | -39.08         | -13.00         | -26.08         | -      | -                 |
| 3670MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -30.89         | -13.00         | -17.89         | -      | -                 |
| 3670MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64958G     | -30.76         | -13.00         | -17.76         | -      | -                 |
| 3670MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70067G     | -41.43         | -13.00         | -28.43         | -      | -                 |
| 3670MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.95         | -13.00         | -26.95         | -      | -                 |
| 3670MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.8224G      | -42.30         | -13.00         | -29.30         | -      | -                 |
| 3670MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9895G     | -43.06         | -13.00         | -30.06         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 118.134k     | -53.72         | -13.00         | -40.72         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 179.85k      | -48.44         | -13.00         | -35.44         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.33113G     | -42.04         | -13.00         | -29.04         | -      | -                 |
| 3675MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.20879G     | -39.63         | -13.00         | -26.63         | -      | -                 |
| 3675MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -33.96         | -13.00         | -20.96         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64951G     | -35.54         | -13.00         | -22.54         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70063G     | -41.33         | -13.00         | -28.33         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.34         | -13.00         | -26.34         | -      | -                 |
| 3675MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.8529G      | -42.53         | -13.00         | -29.53         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.97375G    | -43.14         | -13.00         | -30.14         | -      | -                 |
| 3680MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 118.169k     | -53.48         | -13.00         | -40.48         | -      | -                 |
| 3680MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -46.40         | -13.00         | -33.40         | -      | -                 |
| 3680MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.40463G     | -41.94         | -13.00         | -28.94         | -      | -                 |
| 3680MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.15833G     | -39.63         | -13.00         | -26.63         | -      | -                 |
| 3680MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -34.77         | -13.00         | -21.77         | -      | -                 |
| 3680MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64964G     | -35.90         | -13.00         | -22.90         | -      | -                 |
| 3680MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70001G     | -34.53         | -13.00         | -21.53         | -      | -                 |
| 3680MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -35.56         | -13.00         | -22.56         | -      | -                 |
| 3680MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.81935G     | -42.28         | -13.00         | -29.28         | -      | -                 |
| 3680MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9755G     | -43.04         | -13.00         | -30.04         | -      | -                 |
| Band 43_40MHz_16QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3670MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 116.794k     | -54.55         | -13.00         | -41.55         | -      | -                 |
| 3670MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 157.462k     | -48.32         | -13.00         | -35.32         | -      | -                 |
| 3670MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.27105G     | -41.71         | -13.00         | -28.71         | -      | -                 |
| 3670MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.36843G     | -39.88         | -13.00         | -26.88         | -      | -                 |
| 3670MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -30.69         | -13.00         | -17.69         | -      | -                 |



## CSE-TX-Sum Result

## Appendix D

| Mode                    | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|-------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| 3670MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64988G     | -30.81         | -13.00         | -17.81         | -      | -                 |
| 3670MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70071G     | -41.44         | -13.00         | -28.44         | -      | -                 |
| 3670MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.94         | -13.00         | -26.94         | -      | -                 |
| 3670MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.86433G     | -42.33         | -13.00         | -29.33         | -      | -                 |
| 3670MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.874G      | -43.22         | -13.00         | -30.22         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 121.166k     | -53.67         | -13.00         | -40.67         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 157.462k     | -48.76         | -13.00         | -35.76         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.47611G     | -42.54         | -13.00         | -29.54         | -      | -                 |
| 3675MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.22535G     | -39.57         | -13.00         | -26.57         | -      | -                 |
| 3675MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -33.64         | -13.00         | -20.64         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64989G     | -35.19         | -13.00         | -22.19         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70009G     | -41.00         | -13.00         | -28.00         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.29         | -13.00         | -26.29         | -      | -                 |
| 3675MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.85457G     | -42.37         | -13.00         | -29.37         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.8985G     | -42.93         | -13.00         | -29.93         | -      | -                 |
| 3680MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 114.891k     | -51.59         | -13.00         | -38.59         | -      | -                 |
| 3680MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -47.77         | -13.00         | -34.77         | -      | -                 |
| 3680MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.34326G     | -42.15         | -13.00         | -29.15         | -      | -                 |
| 3680MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.22793G     | -40.19         | -13.00         | -27.19         | -      | -                 |
| 3680MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -34.49         | -13.00         | -21.49         | -      | -                 |
| 3680MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64999G     | -35.87         | -13.00         | -22.87         | -      | -                 |
| 3680MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70007G     | -34.75         | -13.00         | -21.75         | -      | -                 |
| 3680MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -35.47         | -13.00         | -22.47         | -      | -                 |
| 3680MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.81172G     | -42.25         | -13.00         | -29.25         | -      | -                 |
| 3680MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.99825G    | -43.09         | -13.00         | -30.09         | -      | -                 |
| Band 43_40MHz_64QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3670MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 115.702k     | -52.12         | -13.00         | -39.12         | -      | -                 |
| 3670MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -46.17         | -13.00         | -33.17         | -      | -                 |
| 3670MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.46215G     | -41.91         | -13.00         | -28.91         | -      | -                 |
| 3670MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.13556G     | -39.54         | -13.00         | -26.54         | -      | -                 |
| 3670MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -30.41         | -13.00         | -17.41         | -      | -                 |
| 3670MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.65G        | -30.54         | -13.00         | -17.54         | -      | -                 |
| 3670MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70039G     | -41.38         | -13.00         | -28.38         | -      | -                 |
| 3670MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.58         | -13.00         | -26.58         | -      | -                 |
| 3670MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.80699G     | -42.32         | -13.00         | -29.32         | -      | -                 |
| 3670MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.993G      | -43.09         | -13.00         | -30.09         | -      | -                 |
| 3675MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 121.694k     | -52.76         | -13.00         | -39.76         | -      | -                 |
| 3675MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -46.91         | -13.00         | -33.91         | -      | -                 |
| 3675MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 870.11M      | -41.63         | -13.00         | -28.63         | -      | -                 |
| 3675MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.21603G     | -39.35         | -13.00         | -26.35         | -      | -                 |
| 3675MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -33.55         | -13.00         | -20.55         | -      | -                 |
| 3675MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64969G     | -35.04         | -13.00         | -22.04         | -      | -                 |
| 3675MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70064G     | -40.85         | -13.00         | -27.85         | -      | -                 |
| 3675MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7025G      | -39.21         | -13.00         | -26.21         | -      | -                 |
| 3675MHz                 | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.80196G     | -42.29         | -13.00         | -29.29         | -      | -                 |
| 3675MHz                 | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.93875G    | -43.19         | -13.00         | -30.19         | -      | -                 |
| 3680MHz                 | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 121.377k     | -53.79         | -13.00         | -40.79         | -      | -                 |
| 3680MHz                 | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -45.62         | -13.00         | -32.62         | -      | -                 |
| 3680MHz                 | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.34657G     | -42.01         | -13.00         | -29.01         | -      | -                 |
| 3680MHz                 | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.27968G     | -39.41         | -13.00         | -26.41         | -      | -                 |
| 3680MHz                 | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -34.35         | -13.00         | -21.35         | -      | -                 |
| 3680MHz                 | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64978G     | -35.31         | -13.00         | -22.31         | -      | -                 |
| 3680MHz                 | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70019G     | -34.50         | -13.00         | -21.50         | -      | -                 |
| 3680MHz                 | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -34.97         | -13.00         | -21.97         | -      | -                 |



## CSE-TX-Sum Result

## Appendix D

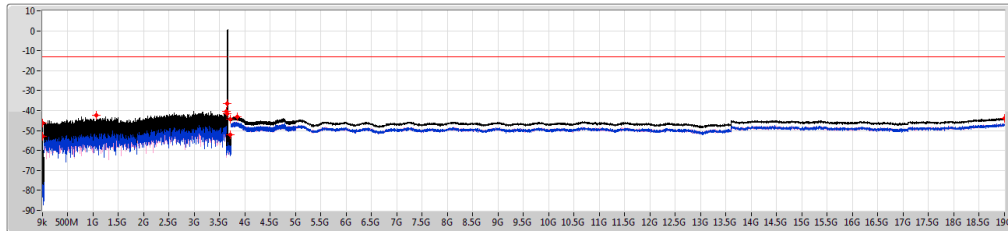
| Mode                     | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | RBW<br>(Hz) | VBW<br>(Hz) | Detector | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark | Ref.Limit<br>(dB) |
|--------------------------|--------|-----------------|----------------|-------------|-------------|----------|--------------|----------------|----------------|----------------|--------|-------------------|
| 3680MHz                  | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.81325G     | -42.26         | -13.00         | -29.26         | -      | -                 |
| 3680MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 19G          | -43.01         | -13.00         | -30.01         | -      | -                 |
| Band 43_40MHz_256QAM_2TX | -      | -               | -              | -           | -           | -        | -            | -              | -              | -              | -      | -                 |
| 3670MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 119.015k     | -53.34         | -13.00         | -40.34         | -      | -                 |
| 3670MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 179.85k      | -47.63         | -13.00         | -34.63         | -      | -                 |
| 3670MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.32709G     | -41.68         | -13.00         | -28.68         | -      | -                 |
| 3670MHz                  | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.12366G     | -39.72         | -13.00         | -26.72         | -      | -                 |
| 3670MHz                  | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -30.78         | -13.00         | -17.78         | -      | -                 |
| 3670MHz                  | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.6498G      | -30.65         | -13.00         | -17.65         | -      | -                 |
| 3670MHz                  | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70005G     | -41.48         | -13.00         | -28.48         | -      | -                 |
| 3670MHz                  | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.85         | -13.00         | -26.85         | -      | -                 |
| 3670MHz                  | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.79952G     | -42.43         | -13.00         | -29.43         | -      | -                 |
| 3670MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.98075G    | -43.10         | -13.00         | -30.10         | -      | -                 |
| 3675MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 117.852k     | -55.09         | -13.00         | -42.09         | -      | -                 |
| 3675MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -47.41         | -13.00         | -34.41         | -      | -                 |
| 3675MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 947.46M      | -42.67         | -13.00         | -29.67         | -      | -                 |
| 3675MHz                  | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.07139G     | -40.22         | -13.00         | -27.22         | -      | -                 |
| 3675MHz                  | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6485G      | -33.48         | -13.00         | -20.48         | -      | -                 |
| 3675MHz                  | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.64963G     | -34.72         | -13.00         | -21.72         | -      | -                 |
| 3675MHz                  | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70061G     | -40.84         | -13.00         | -27.84         | -      | -                 |
| 3675MHz                  | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -39.23         | -13.00         | -26.23         | -      | -                 |
| 3675MHz                  | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.82392G     | -42.45         | -13.00         | -29.45         | -      | -                 |
| 3675MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.93525G    | -43.16         | -13.00         | -30.16         | -      | -                 |
| 3680MHz                  | Pass   | 9k              | 150k           | 200         | 1k          | RMS      | 117.464k     | -54.16         | -13.00         | -41.16         | -      | -                 |
| 3680MHz                  | Pass   | 150k            | 30M            | 10k         | 30k         | RMS      | 150k         | -46.22         | -13.00         | -33.22         | -      | -                 |
| 3680MHz                  | Pass   | 30M             | 1.5G           | 1M          | 3M          | RMS      | 1.3146G      | -42.40         | -13.00         | -29.40         | -      | -                 |
| 3680MHz                  | Pass   | 1.5G            | 3.57G          | 1M          | 3M          | RMS      | 3.23285G     | -38.64         | -13.00         | -25.64         | -      | -                 |
| 3680MHz                  | Pass   | 3.57G           | 3.649G         | 430k        | 1.2M        | RMS      | 3.6475G      | -34.60         | -13.00         | -21.60         | -      | -                 |
| 3680MHz                  | Pass   | 3.649G          | 3.65G          | 430k        | 1.2M        | RMS      | 3.6497G      | -35.76         | -13.00         | -22.76         | -      | -                 |
| 3680MHz                  | Pass   | 3.7G            | 3.701G         | 430k        | 1.2M        | RMS      | 3.70008G     | -34.80         | -13.00         | -21.80         | -      | -                 |
| 3680MHz                  | Pass   | 3.701G          | 3.78G          | 430k        | 1.2M        | RMS      | 3.7015G      | -35.39         | -13.00         | -22.39         | -      | -                 |
| 3680MHz                  | Pass   | 3.78G           | 5G             | 1M          | 3M          | RMS      | 3.83078G     | -42.32         | -13.00         | -29.32         | -      | -                 |
| 3680MHz                  | Pass   | 5G              | 19G            | 1M          | 3M          | RMS      | 18.9755G     | -42.99         | -13.00         | -29.99         | -      | -                 |



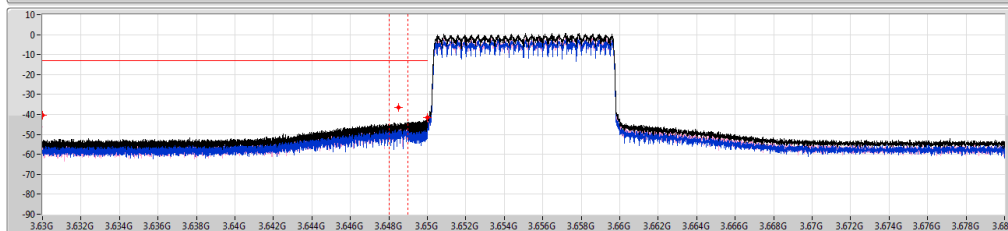
## Band 43\_10MHz\_2TX 3655MHz\_QPSK

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2

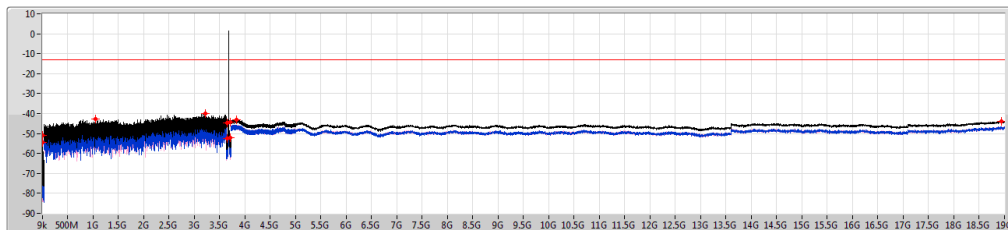


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 121.73k  | -52.70     | -13.00     | -39.70     | -      | -             | -67.09  | -52.86  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -46.44     | -13.00     | -33.44     | -      | -             | -48.25  | -51.11  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.05845G | -42.28     | -13.00     | -29.28     | -      | -             | -49.34  | -43.23  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.63G    | -40.27     | -13.00     | -27.27     | -      | -             | -41.55  | -46.19  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G  | -36.63     | -13.00     | -23.63     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.65G    | -41.66     | -13.00     | -28.66     | -      | -             | -46.42  | -43.43  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70040G | -51.98     | -13.00     | -38.98     | -      | -             | -56.23  | -54.03  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7065G  | -44.38     | -13.00     | -31.38     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.84784G | -43.09     | -13.00     | -30.09     | -      | -             | -46.17  | -46.04  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 19G      | -43.84     | -13.00     | -30.84     | -      | -             | -47.14  | -46.57  |

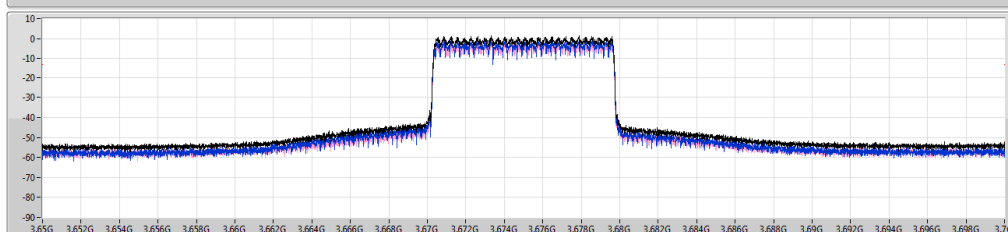
## Band 43\_10MHz\_2TX 3675MHz\_QPSK

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2



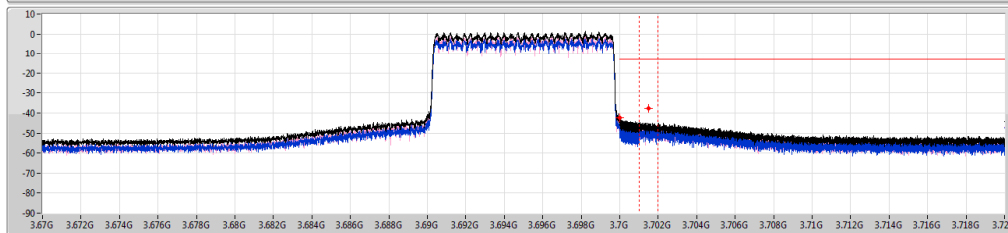
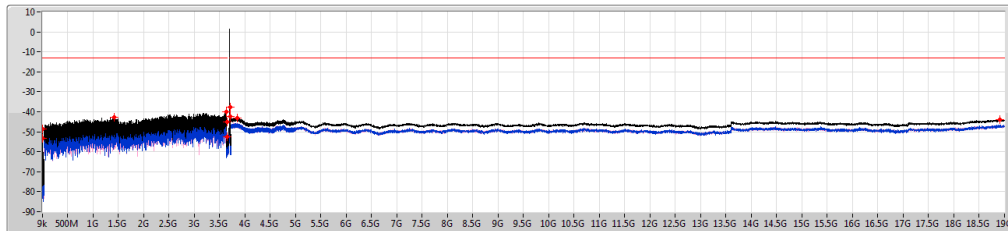
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 114.856k  | -54.61     | -13.00     | -41.61     | -      | -             | -67.05  | -54.87  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -50.85     | -13.00     | -37.85     | -      | -             | -51.57  | -59.01  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.04981G  | -42.69     | -13.00     | -29.69     | -      | -             | -44.97  | -46.57  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.21625G  | -39.94     | -13.00     | -26.94     | -      | -             | -42.66  | -43.27  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G   | -44.77     | -13.00     | -31.77     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.6497G   | -52.96     | -13.00     | -39.96     | -      | -             | -55.70  | -55.45  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70019G  | -52.13     | -13.00     | -39.13     | -      | -             | -55.18  | -55.11  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7085G   | -44.26     | -13.00     | -31.26     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.83248G  | -43.05     | -13.00     | -30.05     | -      | -             | -46.09  | -46.04  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.93175G | -43.73     | -13.00     | -30.73     | -      | -             | -46.49  | -47.00  |



Band 43\_10MHz\_2TX  
3695MHz\_QPSK

CSE-TX-Sum

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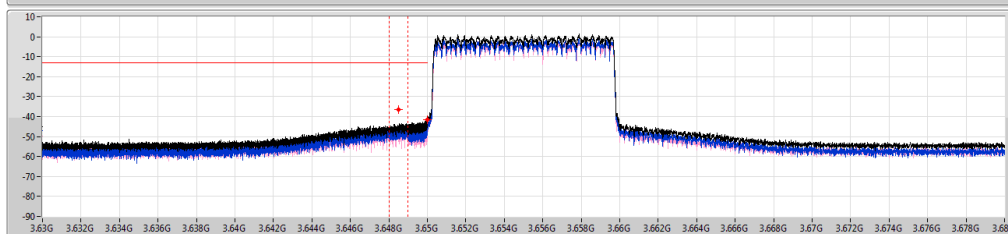
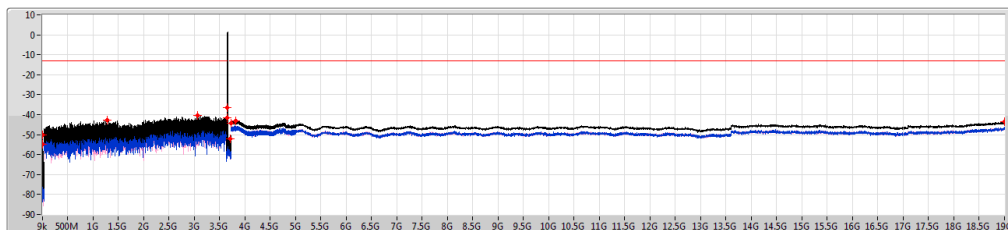


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 122.434k | -53.27     | -13.00     | -40.27     | -      | -             | -65.15  | -53.56  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -48.68     | -13.00     | -35.68     | -      | -             | -50.38  | -53.57  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.41621G | -42.73     | -13.00     | -29.73     | -      | -             | -43.87  | -49.10  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.62681G | -40.11     | -13.00     | -27.11     | -      | -             | -45.06  | -41.79  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6475G  | -44.90     | -13.00     | -31.90     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.64917G | -52.64     | -13.00     | -39.64     | -      | -             | -55.48  | -55.83  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70002G | -42.48     | -13.00     | -29.48     | -      | -             | -44.98  | -46.07  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7015G  | -37.48     | -13.00     | -24.48     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.85136G | -43.04     | -13.00     | -30.04     | -      | -             | -46.32  | -45.79  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.902G  | -43.81     | -13.00     | -30.81     | -      | -             | -46.63  | -47.02  |

Band 43\_10MHz\_2TX  
3655MHz\_16QAM

CSE-TX-Sum

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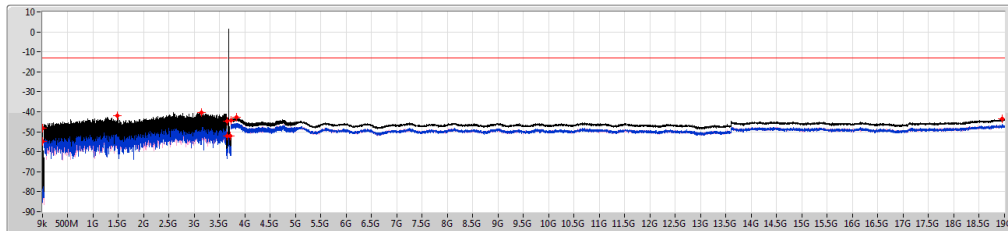
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 117.288k | -54.84     | -13.00     | -41.84     | -      | -             | -64.61  | -55.32  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 164.923k | -50.28     | -13.00     | -37.28     | -      | -             | -53.68  | -52.94  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.28391G | -42.62     | -13.00     | -29.62     | -      | -             | -45.80  | -45.46  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.06502G | -40.31     | -13.00     | -27.31     | -      | -             | -41.70  | -45.94  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G  | -36.31     | -13.00     | -23.31     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.65G    | -41.42     | -13.00     | -28.42     | -      | -             | -44.19  | -44.69  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70025G | -52.29     | -13.00     | -39.29     | -      | -             | -55.01  | -55.61  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7175G  | -44.35     | -13.00     | -31.35     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.82032G | -43.16     | -13.00     | -30.16     | -      | -             | -46.06  | -46.28  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 19G      | -43.08     | -13.00     | -30.08     | -      | -             | -46.32  | -47.09  |



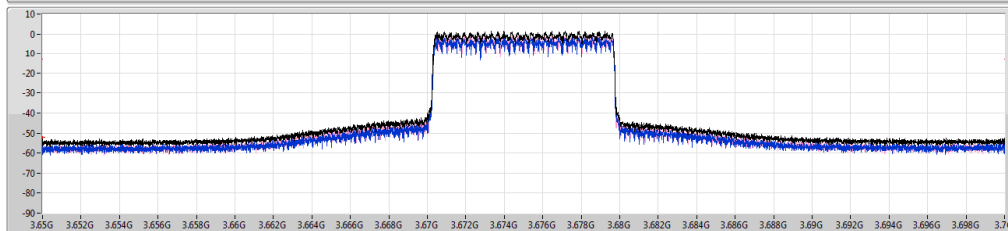
Band 43\_10MHz\_2TX  
3675MHz\_16QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2

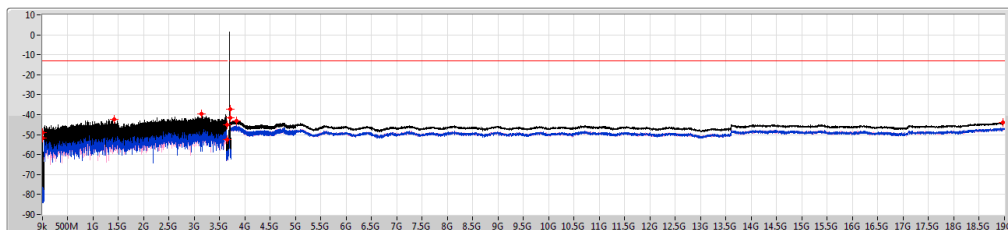


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 119.861k  | -54.88     | -13.00     | -41.88     | -      | -             | -68.05  | -55.09  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 1.7985G   | -48.17     | -13.00     | -35.17     | -      | -             | -49.83  | -53.15  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.47042G  | -41.97     | -13.00     | -28.97     | -      | -             | -45.23  | -44.75  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.14356G  | -40.21     | -13.00     | -27.21     | -      | -             | -46.93  | -41.25  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G   | -44.84     | -13.00     | -31.84     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.6499G   | -52.19     | -13.00     | -39.19     | -      | -             | -55.19  | -55.21  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70037G  | -51.93     | -13.00     | -38.93     | -      | -             | -55.70  | -54.30  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7155G   | -44.28     | -13.00     | -31.28     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.8288G   | -42.92     | -13.00     | -29.92     | -      | -             | -45.94  | -45.92  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.95625G | -43.66     | -13.00     | -30.66     | -      | -             | -46.41  | -46.95  |

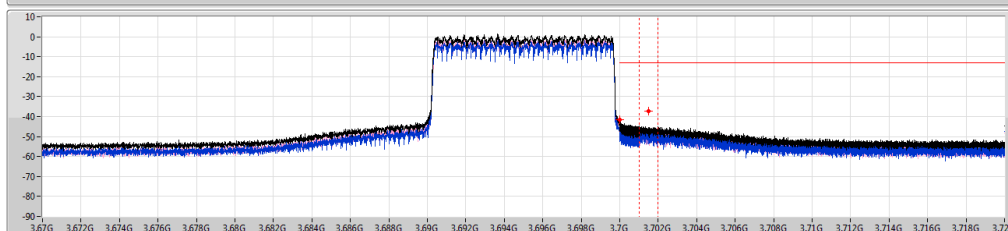
Band 43\_10MHz\_2TX  
3695MHz\_16QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2



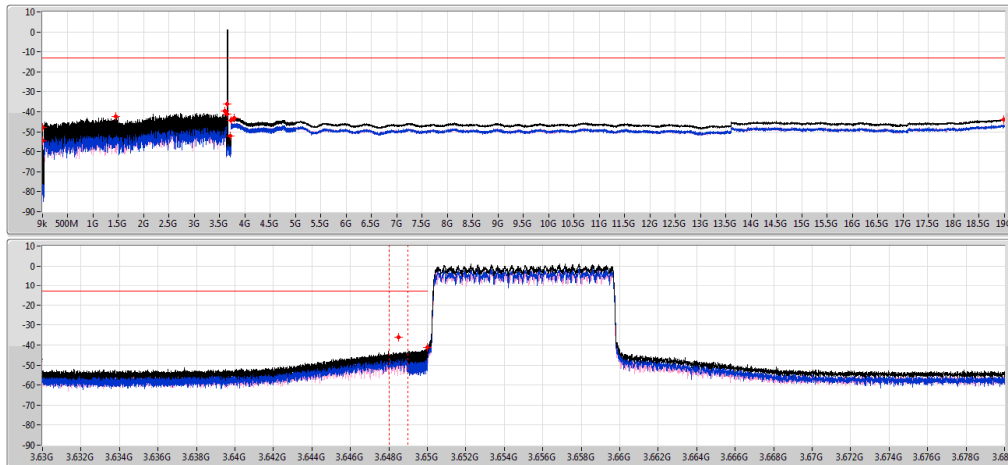
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 118.839k | -51.75     | -13.00     | -38.75     | -      | -             | -55.64  | -54.03  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 1.59k    | -49.12     | -13.00     | -36.12     | -      | -             | -51.44  | -52.94  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.41107G | -42.17     | -13.00     | -29.17     | -      | -             | -45.24  | -45.13  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.14303G | -39.44     | -13.00     | -26.44     | -      | -             | -42.70  | -42.22  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G  | -44.92     | -13.00     | -31.92     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.64934G | -52.51     | -13.00     | -39.51     | -      | -             | -54.08  | -57.70  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70002G | -41.69     | -13.00     | -28.69     | -      | -             | -46.34  | -43.51  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7015G  | -37.45     | -13.00     | -24.45     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.832G   | -43.08     | -13.00     | -30.08     | -      | -             | -45.33  | -47.02  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9685G | -43.82     | -13.00     | -30.82     | -      | -             | -46.71  | -46.95  |



Band 43\_10MHz\_2TX  
3655MHz\_64QAM

CSE-TX-Sum

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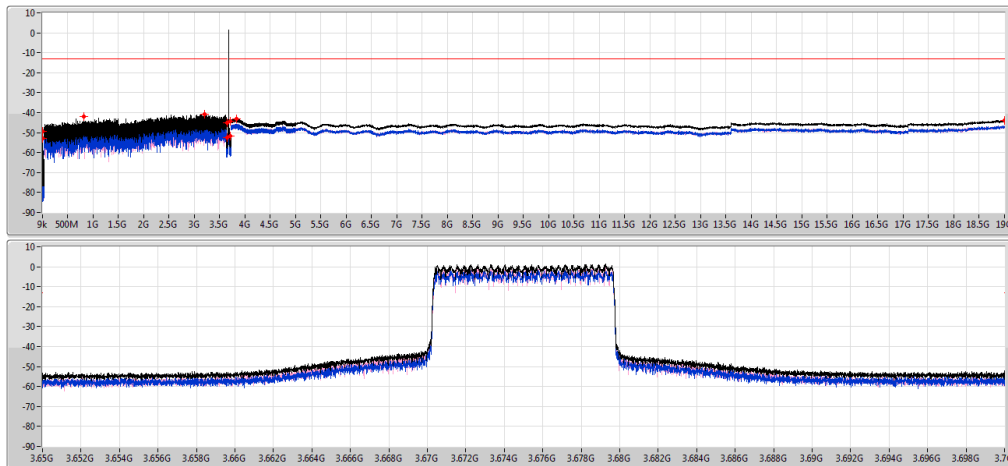


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 115.032k  | -54.31     | -13.00     | -41.31     | -      | -             | -65.87  | -54.62  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 157.462k  | -47.80     | -13.00     | -34.80     | -      | -             | -48.09  | -50.71  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.44543G  | -42.52     | -13.00     | -29.52     | -      | -             | -45.98  | -45.13  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.60657G  | -39.79     | -13.00     | -26.79     | -      | -             | -43.59  | -42.13  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G   | -36.10     | -13.00     | -23.10     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.65G     | -41.32     | -13.00     | -28.32     | -      | -             | -44.40  | -44.27  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70092G  | -52.01     | -13.00     | -39.01     | -      | -             | -54.70  | -55.37  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7185G   | -44.31     | -13.00     | -31.31     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.78624G  | -43.10     | -13.00     | -30.10     | -      | -             | -45.91  | -46.32  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.98075G | -43.72     | -13.00     | -30.72     | -      | -             | -47.15  | -46.34  |

Band 43\_10MHz\_2TX  
3675MHz\_64QAM

CSE-TX-Sum

03/01/2020

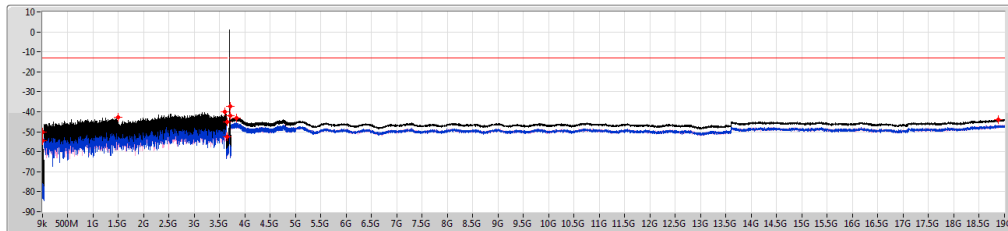


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 121.765k | -52.93     | -13.00     | -39.93     | -      | -             | -59.14  | -54.12  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 179.85k  | -49.41     | -13.00     | -36.41     | -      | -             | -52.01  | -52.88  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 820.13M  | -42.13     | -13.00     | -29.13     | -      | -             | -45.13  | -45.16  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.19814G | -40.61     | -13.00     | -27.61     | -      | -             | -48.38  | -41.41  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G  | -44.94     | -13.00     | -31.94     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.64928G | -52.43     | -13.00     | -39.43     | -      | -             | -55.85  | -55.07  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70083G | -51.83     | -13.00     | -38.83     | -      | -             | -55.74  | -54.10  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7025G  | -44.24     | -13.00     | -31.24     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.82976G | -42.99     | -13.00     | -29.99     | -      | -             | -46.57  | -45.49  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9965G | -43.82     | -13.00     | -30.82     | -      | -             | -47.01  | -46.65  |

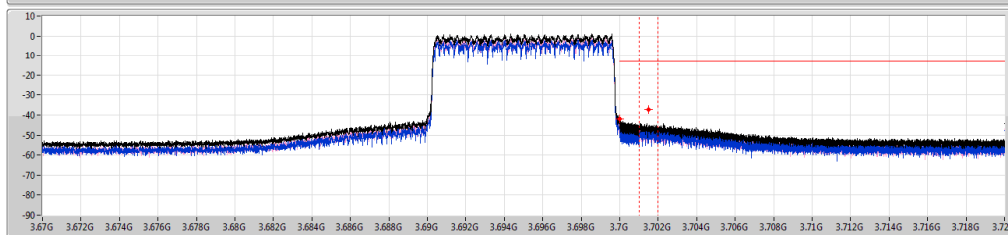
Band 43\_10MHz\_2TX  
3695MHz\_64QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2

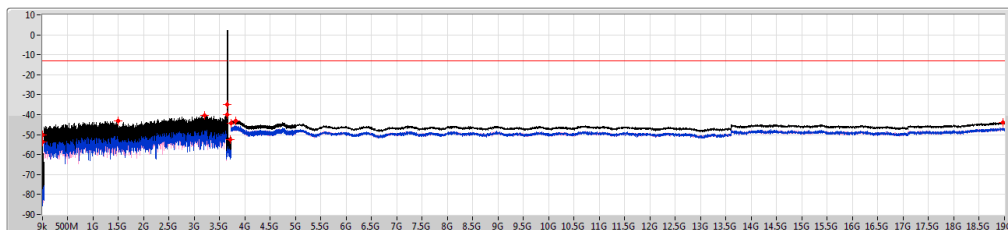


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 119.544k | -54.40     | -13.00     | -41.40     | -      | -             | -54.95  | -63.62  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 172.388k | -50.02     | -13.00     | -37.02     | -      | -             | -50.02  | -50.61  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.49853G | -42.59     | -13.00     | -29.59     | -      | -             | -44.95  | -46.36  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.60151G | -39.97     | -13.00     | -26.97     | -      | -             | -44.70  | -41.75  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G  | -44.92     | -13.00     | -31.92     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.64946G | -52.61     | -13.00     | -39.61     | -      | -             | -55.28  | -56.00  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70002G | -42.02     | -13.00     | -29.02     | -      | -             | -44.83  | -45.25  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7015G  | -37.24     | -13.00     | -24.24     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.83168G | -43.02     | -13.00     | -30.02     | -      | -             | -45.65  | -46.44  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.8845G | -43.72     | -13.00     | -30.72     | -      | -             | -46.97  | -46.51  |

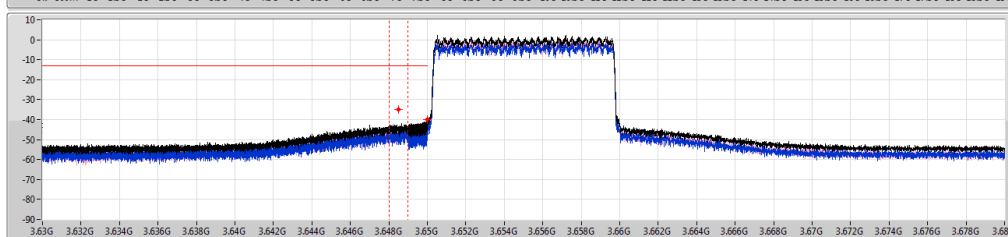
Band 43\_10MHz\_2TX  
3655MHz\_256QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2

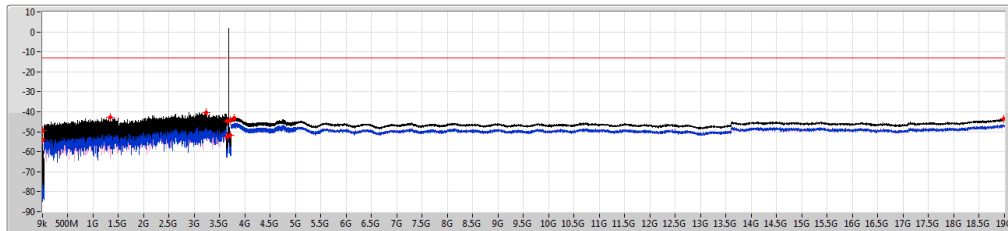


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 120.566k  | -53.61     | -13.00     | -40.61     | -      | -             | -53.69  | -71.06  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 164.925k  | -50.29     | -13.00     | -37.29     | -      | -             | -54.73  | -52.23  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.48714G  | -43.03     | -13.00     | -30.03     | -      | -             | -43.73  | -51.33  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.2048G   | -40.24     | -13.00     | -27.24     | -      | -             | -42.49  | -44.17  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G   | -35.08     | -13.00     | -22.08     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.64998G  | -40.10     | -13.00     | -27.10     | -      | -             | -45.96  | -41.40  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70023G  | -52.36     | -13.00     | -39.36     | -      | -             | -55.81  | -54.97  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7155G   | -44.31     | -13.00     | -31.31     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.82096G  | -43.06     | -13.00     | -30.06     | -      | -             | -45.67  | -46.51  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.97025G | -43.75     | -13.00     | -30.75     | -      | -             | -46.61  | -46.92  |

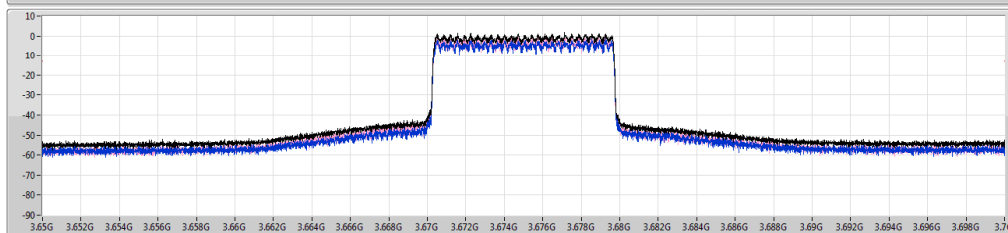
Band 43\_10MHz\_2TX  
3675MHz\_256QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2

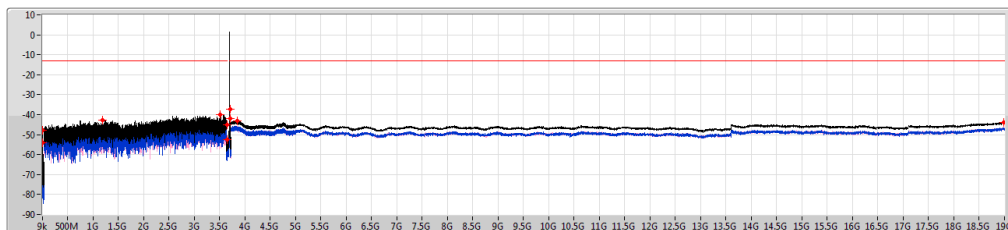


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 116.618k  | -53.95     | -13.00     | -40.95     | -      | -             | -54.35  | -64.55  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -49.34     | -13.00     | -36.34     | -      | -             | -53.96  | -51.17  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.33279G  | -42.88     | -13.00     | -29.88     | -      | -             | -45.68  | -46.12  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.23435G  | -40.47     | -13.00     | -27.47     | -      | -             | -42.19  | -45.32  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6485G   | -44.85     | -13.00     | -31.85     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.6498G   | -52.50     | -13.00     | -39.50     | -      | -             | -55.92  | -55.13  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70078G  | -51.86     | -13.00     | -38.86     | -      | -             | -56.10  | -53.91  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7125G   | -44.28     | -13.00     | -31.28     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.78512G  | -43.03     | -13.00     | -30.03     | -      | -             | -45.84  | -46.26  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.98425G | -43.61     | -13.00     | -30.61     | -      | -             | -46.88  | -46.37  |

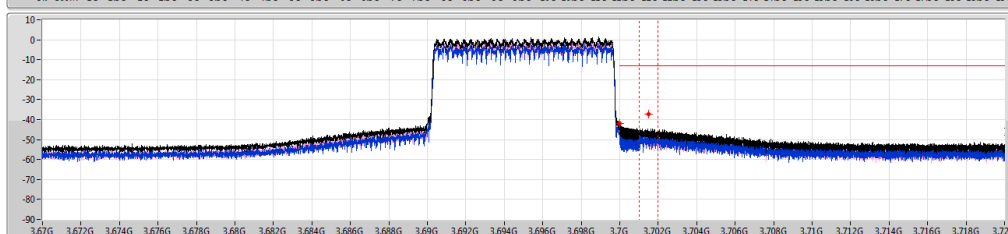
Band 43\_10MHz\_2TX  
3695MHz\_256QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2



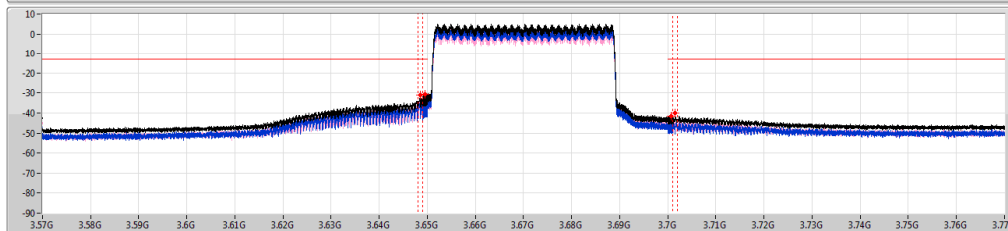
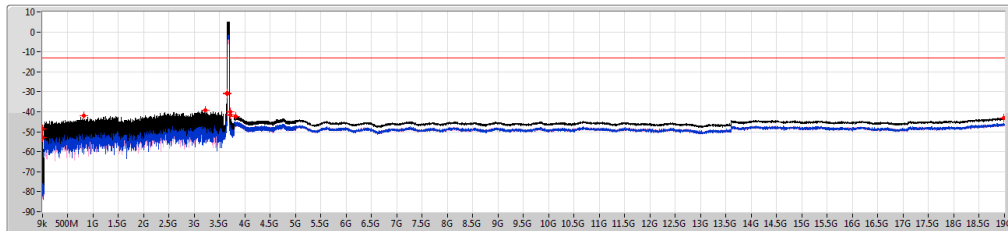
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 120.249k | -54.24     | -13.00     | -41.24     | -      | -             | -70.15  | -54.35  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 172.388k | -47.91     | -13.00     | -34.91     | -      | -             | -50.32  | -51.62  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.18616G | -42.68     | -13.00     | -29.68     | -      | -             | -47.51  | -44.41  |
| 1.5G        | 3.63G      | 1M      | 3M      | RMS      | 3.51258G | -39.86     | -13.00     | -26.86     | -      | -             | -44.39  | -41.74  |
| 3.63G       | 3.649G     | 100k    | 300k    | RMS      | 3.6465G  | -44.91     | -13.00     | -31.91     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 100k    | 300k    | RMS      | 3.64939G | -52.59     | -13.00     | -39.59     | -      | -             | -55.44  | -55.76  |
| 3.7G        | 3.701G     | 100k    | 300k    | RMS      | 3.70001G | -42.00     | -13.00     | -29.00     | -      | -             | -46.81  | -43.74  |
| 3.701G      | 3.72G      | 100k    | 300k    | RMS      | 3.7015G  | -37.37     | -13.00     | -24.37     | MBW 1M | -             | -       | -       |
| 3.72G       | 5G         | 1M      | 3M      | RMS      | 3.83968G | -43.13     | -13.00     | -30.13     | -      | -             | -46.24  | -46.04  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9895G | -43.78     | -13.00     | -30.78     | -      | -             | -46.76  | -46.83  |



Band 43\_40MHz\_2TX  
3670MHz\_QPSK

CSE-TX-Sum

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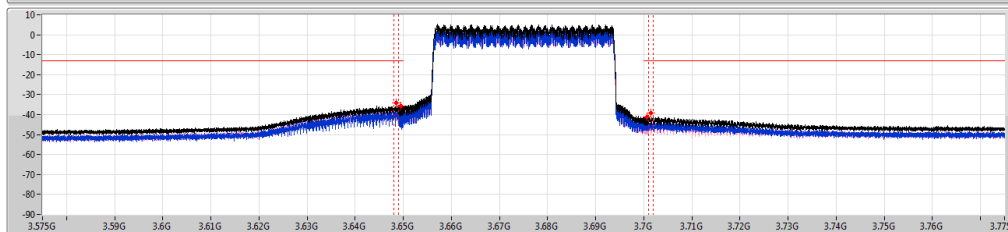
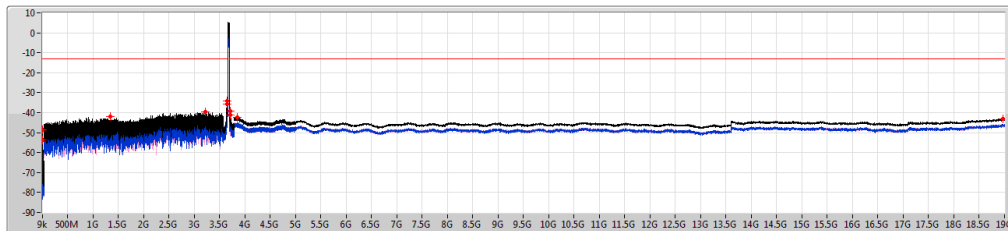


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 119.227k | -52.98     | -13.00     | -39.98     | -      | -             | -53.21  | -65.85  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 164.929k | -48.55     | -13.00     | -35.55     | -      | -             | -49.24  | -56.87  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 810.02M  | -42.14     | -13.00     | -29.14     | -      | -             | -44.89  | -45.42  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.21008G | -39.08     | -13.00     | -26.08     | -      | -             | -42.06  | -42.13  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G  | -30.89     | -13.00     | -17.89     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64958G | -30.76     | -13.00     | -17.76     | -      | -             | -34.22  | -33.37  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70067G | -41.43     | -13.00     | -28.43     | -      | -             | -44.63  | -44.25  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G  | -39.95     | -13.00     | -26.95     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.8224G  | -42.30     | -13.00     | -29.30     | -      | -             | -45.45  | -45.17  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9895G | -43.06     | -13.00     | -30.06     | -      | -             | -45.97  | -46.18  |

Band 43\_40MHz\_2TX  
3675MHz\_QPSK

CSE-TX-Sum

03/01/2020



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 118.134k  | -53.72     | -13.00     | -40.72     | -      | -             | -53.97  | -66.32  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 179.85k   | -48.44     | -13.00     | -35.44     | -      | -             | -51.94  | -51.01  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.33113G  | -42.04     | -13.00     | -29.04     | -      | -             | -46.13  | -44.19  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.20879G  | -39.63     | -13.00     | -26.63     | -      | -             | -42.25  | -43.06  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G   | -33.96     | -13.00     | -20.96     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64951G  | -35.54     | -13.00     | -22.54     | -      | -             | -39.10  | -38.06  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70063G  | -41.33     | -13.00     | -28.33     | -      | -             | -43.57  | -45.28  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G   | -39.34     | -13.00     | -26.34     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.8529G   | -42.53     | -13.00     | -29.53     | -      | -             | -45.15  | -45.96  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.97375G | -43.14     | -13.00     | -30.14     | -      | -             | -45.79  | -46.54  |

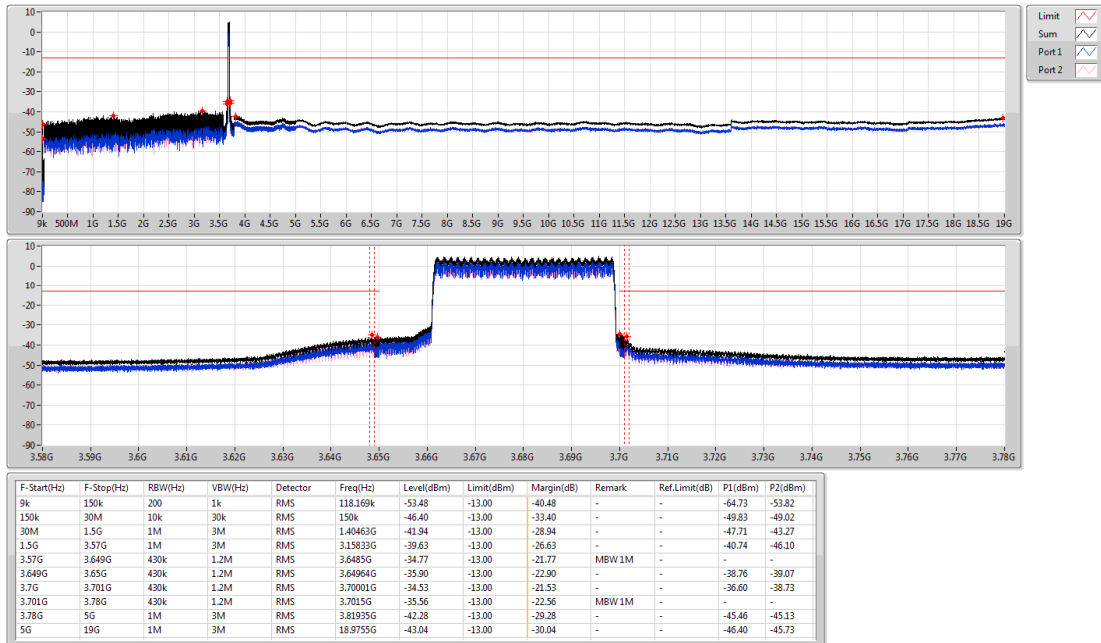


Band 43\_40MHz\_2TX

3680MHz\_QPSK

CSE-TX-Sum

03/01/2020

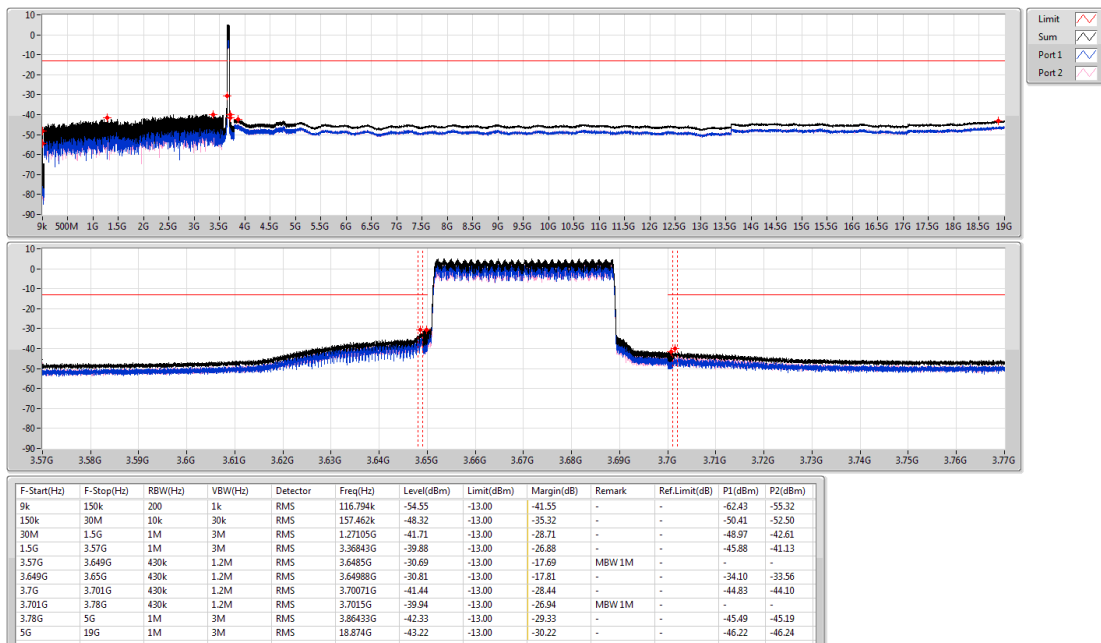


Band 43\_40MHz\_2TX

3670MHz\_16QAM

CSE-TX-Sum

03/01/2020

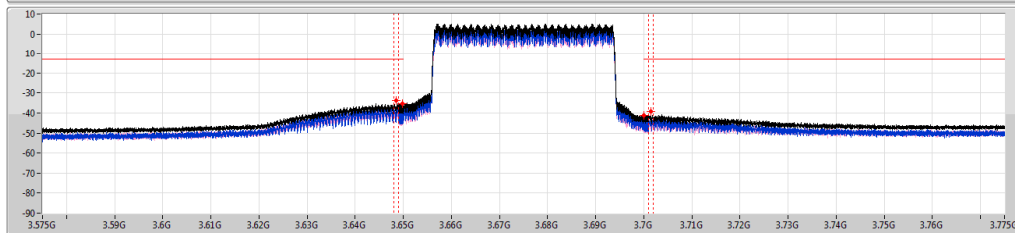
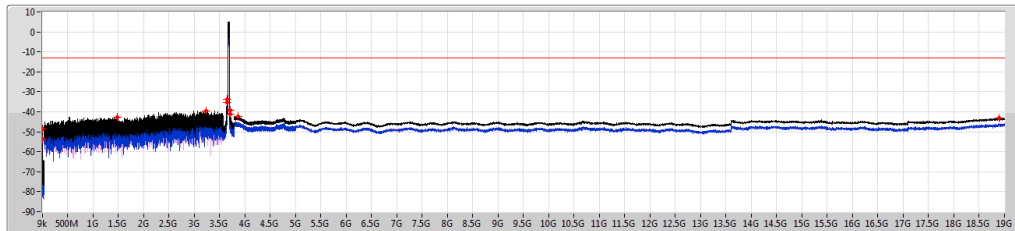




Band 43\_40MHz 2TX  
3675MHz 16QAM

CSE-TX-Sum

03/01/2020

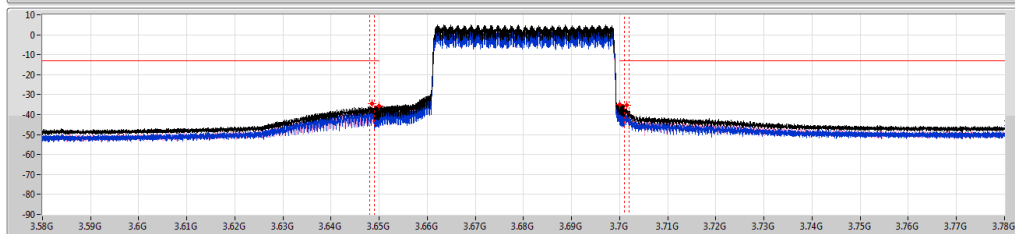
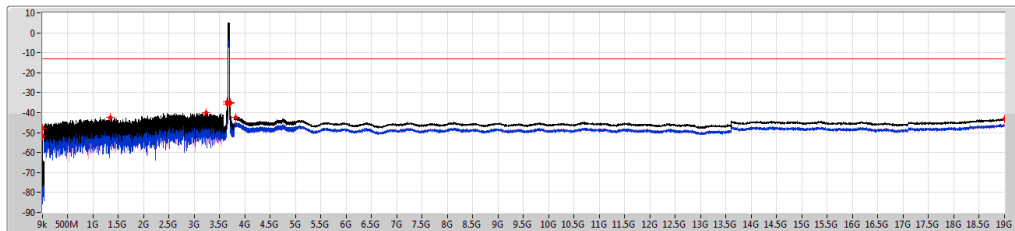


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 121.166k | -53.67     | -13.00     | -40.67     | -      | -             | -63.11  | -54.20  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 157.463k | -48.76     | -13.00     | -35.76     | -      | -             | -54.04  | -50.29  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.47811G | -42.54     | -13.00     | -29.54     | -      | -             | -45.67  | -45.43  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.22535G | -39.57     | -13.00     | -26.57     | -      | -             | -43.79  | -41.64  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G  | -33.64     | -13.00     | -20.64     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64989G | -35.19     | -13.00     | -22.19     | -      | -             | -37.76  | -38.68  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70099G | -41.00     | -13.00     | -28.00     | -      | -             | -44.40  | -43.66  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G  | -39.29     | -13.00     | -26.29     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.85457G | -42.37     | -13.00     | -29.37     | -      | -             | -45.54  | -45.22  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.8985G | -42.93     | -13.00     | -29.93     | -      | -             | -46.14  | -45.74  |

Band 43\_40MHz 2TX  
3680MHz 16QAM

CSE-TX-Sum

03/01/2020



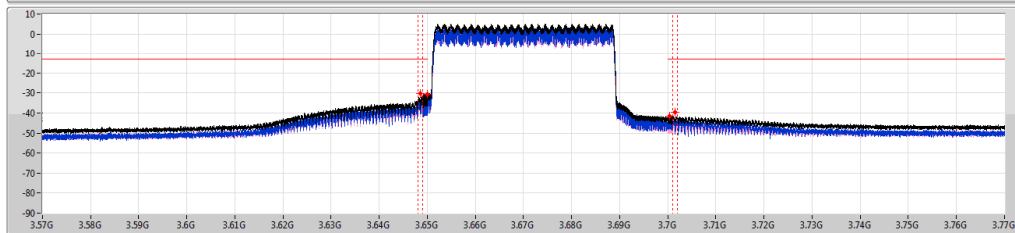
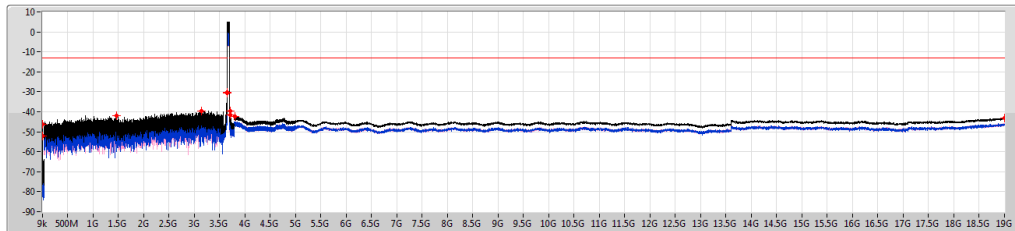
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 114.891k  | -51.59     | -13.00     | -38.59     | -      | -             | -63.50  | -51.88  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -47.77     | -13.00     | -34.77     | -      | -             | -51.96  | -49.86  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.34326G  | -42.15     | -13.00     | -29.15     | -      | -             | -45.86  | -44.55  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.22793G  | -40.19     | -13.00     | -27.19     | -      | -             | -41.00  | -47.89  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G   | -34.49     | -13.00     | -21.49     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64999G  | -35.87     | -13.00     | -22.87     | -      | -             | -38.80  | -38.97  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70007G  | -34.75     | -13.00     | -21.75     | -      | -             | -37.90  | -37.62  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G   | -35.47     | -13.00     | -22.47     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.81172G  | -42.25     | -13.00     | -29.25     | -      | -             | -45.05  | -45.49  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.99825G | -43.09     | -13.00     | -30.09     | -      | -             | -46.30  | -45.90  |



Band 43\_40MHz 2TX  
3670MHz 64QAM

CSE-TX-Sum

03/01/2020

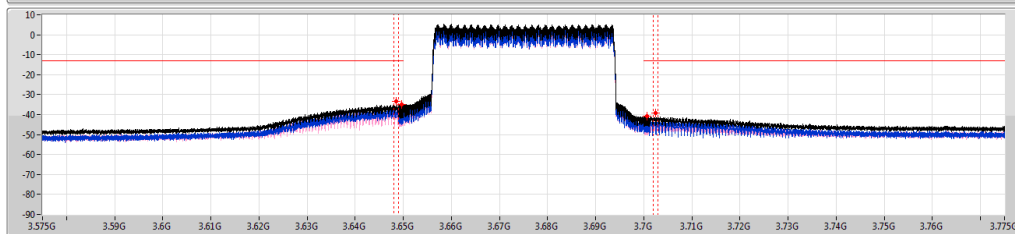
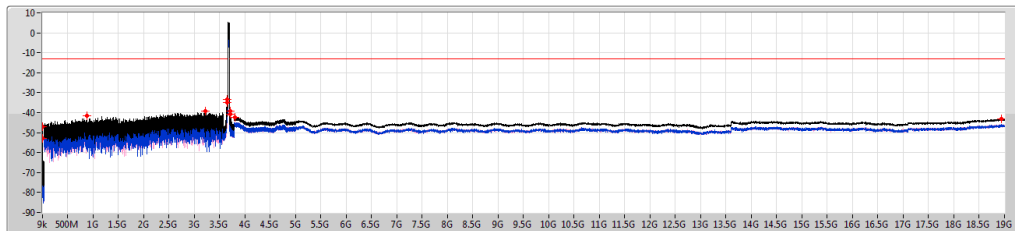


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 115.702k | -52.12     | -13.00     | -39.12     | -      | -             | -67.11  | -52.26  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -46.17     | -13.00     | -33.17     | -      | -             | -48.41  | -50.11  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.46215G | -41.91     | -13.00     | -28.91     | -      | -             | -44.08  | -45.96  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.13556G | -39.54     | -13.00     | -26.54     | -      | -             | -41.63  | -43.73  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G  | -30.41     | -13.00     | -17.41     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.65G    | -30.54     | -13.00     | -17.54     | -      | -             | -33.16  | -33.98  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70039G | -41.38     | -13.00     | -28.38     | -      | -             | -44.01  | -44.80  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G  | -39.58     | -13.00     | -26.58     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.80699G | -42.32     | -13.00     | -29.32     | -      | -             | -44.94  | -45.76  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.993G  | -43.09     | -13.00     | -30.09     | -      | -             | -46.35  | -45.86  |

Band 43\_40MHz 2TX  
3675MHz 64QAM

CSE-TX-Sum

03/01/2020



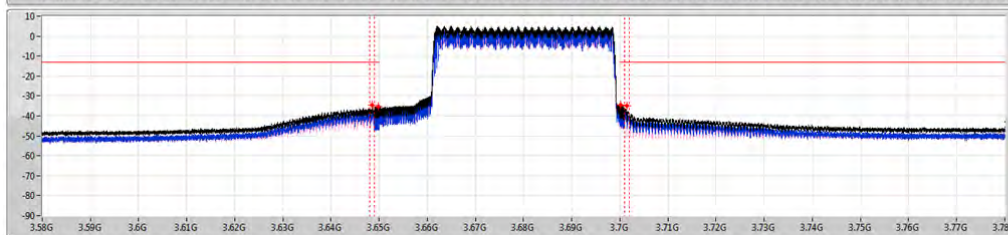
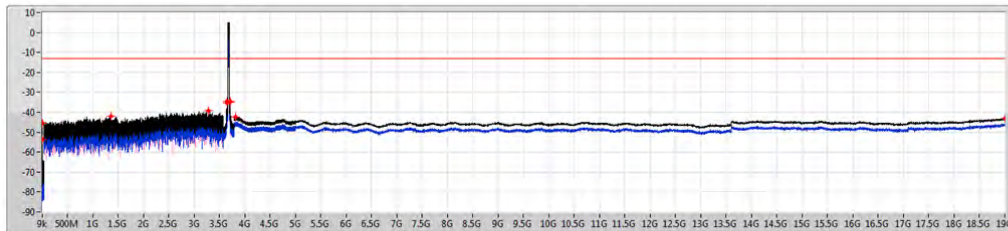
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 121.694k  | -52.76     | -13.00     | -39.76     | -      | -             | -56.60  | -55.07  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -46.91     | -13.00     | -33.91     | -      | -             | -53.96  | -47.86  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 870.11M   | -41.63     | -13.00     | -28.63     | -      | -             | -45.98  | -43.62  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.21603G  | -39.35     | -13.00     | -26.35     | -      | -             | -40.31  | -46.39  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G   | -33.55     | -13.00     | -20.55     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64969G  | -35.04     | -13.00     | -22.04     | -      | -             | -37.39  | -38.83  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70064G  | -40.85     | -13.00     | -27.85     | -      | -             | -42.74  | -45.37  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7025G   | -39.21     | -13.00     | -26.21     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.80196G  | -42.29     | -13.00     | -29.29     | -      | -             | -45.09  | -45.53  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.93875G | -43.19     | -13.00     | -30.19     | -      | -             | -46.09  | -46.31  |



Band 43\_40MHz\_2TX  
3680MHz\_64QAM

CSE-TX-Sum

03/01/2020

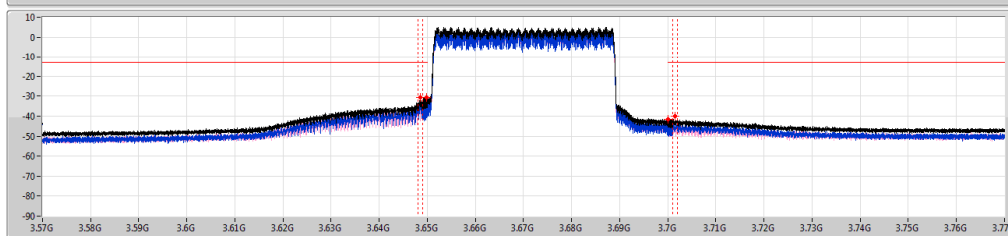
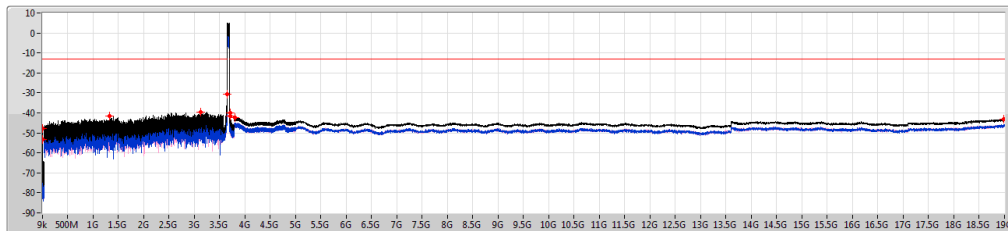


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 121.377k | -53.79     | -13.00     | -40.79     | -      | -             | -54.55  | -61.71  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -45.62     | -13.00     | -32.62     | -      | -             | -46.19  | -54.72  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.34637G | -42.01     | -13.00     | -29.01     | -      | -             | -46.25  | -44.07  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.27968G | -39.41     | -13.00     | -26.41     | -      | -             | -44.55  | -41.00  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G  | -34.35     | -13.00     | -21.35     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64978G | -35.31     | -13.00     | -22.31     | -      | -             | -37.34  | -39.60  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70019G | -34.50     | -13.00     | -21.50     | -      | -             | -36.94  | -38.16  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G  | -34.97     | -13.00     | -21.97     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.81325G | -42.26     | -13.00     | -29.26     | -      | -             | -45.16  | -45.38  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 19G      | -43.01     | -13.00     | -30.01     | -      | -             | -46.34  | -45.73  |

Band 43\_40MHz\_2TX  
3670MHz\_256QAM

CSE-TX-Sum

03/01/2020



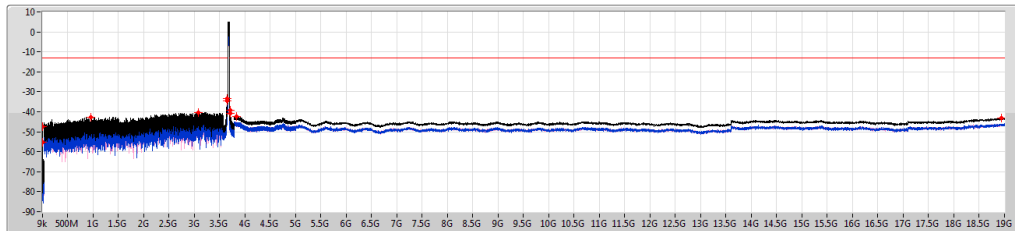
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 119.015k  | -53.34     | -13.00     | -40.34     | -      | -             | -64.14  | -53.72  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 179.85k   | -47.63     | -13.00     | -34.63     | -      | -             | -48.50  | -55.04  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.32799G  | -41.68     | -13.00     | -28.68     | -      | -             | -45.39  | -44.08  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.12366G  | -39.72     | -13.00     | -26.72     | -      | -             | -43.54  | -42.05  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G   | -30.78     | -13.00     | -17.78     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.6498G   | -30.65     | -13.00     | -17.65     | -      | -             | -33.55  | -33.77  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70005G  | -41.48     | -13.00     | -28.48     | -      | -             | -43.82  | -45.29  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G   | -39.85     | -13.00     | -26.85     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.79952G  | -42.43     | -13.00     | -29.43     | -      | -             | -45.46  | -45.42  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.98075G | -43.10     | -13.00     | -30.10     | -      | -             | -45.97  | -46.25  |



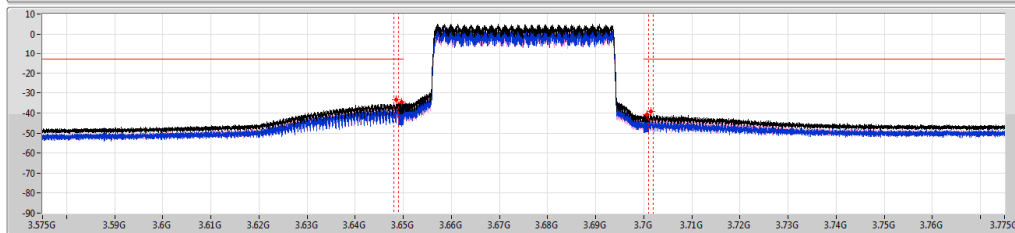
Band 43\_40MHz 2TX  
3675MHz 256QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2

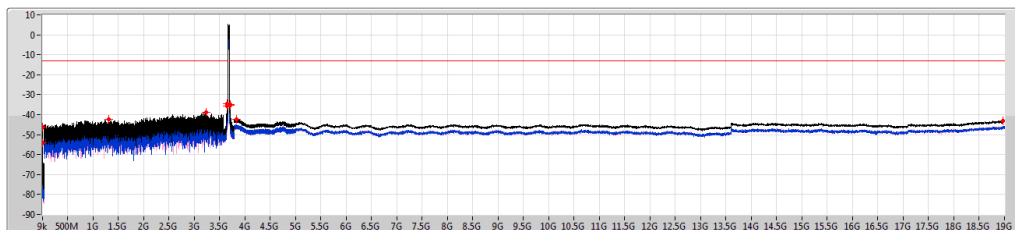


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz)  | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|-----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 117.852k  | -55.09     | -13.00     | -42.09     | -      | -             | -55.59  | -64.72  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k      | -47.41     | -13.00     | -34.41     | -      | -             | -48.19  | -52.14  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 947.46M   | -42.67     | -13.00     | -29.67     | -      | -             | -50.16  | -43.52  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.07139G  | -40.22     | -13.00     | -27.22     | -      | -             | -45.75  | -41.65  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6485G   | -33.48     | -13.00     | -20.48     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.64963G  | -34.72     | -13.00     | -21.72     | -      | -             | -38.70  | -36.94  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70061G  | -40.84     | -13.00     | -27.84     | -      | -             | -44.24  | -43.50  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G   | -39.23     | -13.00     | -26.23     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.82392G  | -42.45     | -13.00     | -29.45     | -      | -             | -45.76  | -45.18  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.93525G | -43.16     | -13.00     | -30.16     | -      | -             | -46.16  | -46.19  |

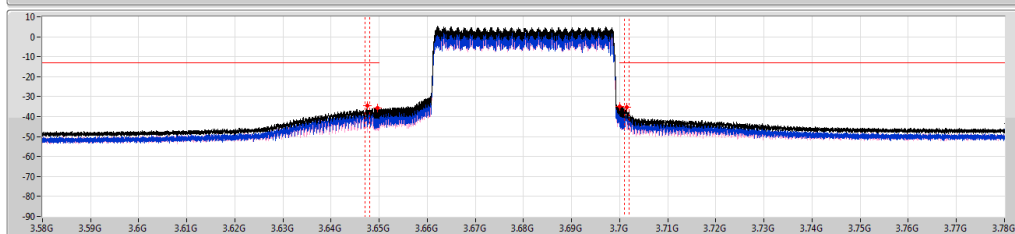
Band 43\_40MHz 2TX  
3680MHz 256QAM

CSE-TX-Sum

03/01/2020



Limit  
Sum  
Port 1  
Port 2



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | VBW(Hz) | Detector | Freq(Hz) | Level(dBm) | Limit(dBm) | Margin(dB) | Remark | Ref.Limit(dB) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|---------|----------|----------|------------|------------|------------|--------|---------------|---------|---------|
| 9k          | 150k       | 200     | 1k      | RMS      | 117.464k | -54.16     | -13.00     | -41.16     | -      | -             | -64.29  | -54.60  |
| 150k        | 30M        | 10k     | 30k     | RMS      | 150k     | -46.22     | -13.00     | -33.22     | -      | -             | -49.49  | -48.98  |
| 30M         | 1.5G       | 1M      | 3M      | RMS      | 1.3146G  | -42.40     | -13.00     | -29.40     | -      | -             | -44.44  | -46.67  |
| 1.5G        | 3.57G      | 1M      | 3M      | RMS      | 3.23285G | -38.64     | -13.00     | -25.64     | -      | -             | -42.86  | -40.71  |
| 3.57G       | 3.649G     | 430k    | 1.2M    | RMS      | 3.6475G  | -34.60     | -13.00     | -21.60     | MBW 1M | -             | -       | -       |
| 3.649G      | 3.65G      | 430k    | 1.2M    | RMS      | 3.6497G  | -35.76     | -13.00     | -22.76     | -      | -             | -37.83  | -39.97  |
| 3.7G        | 3.701G     | 430k    | 1.2M    | RMS      | 3.70008G | -34.80     | -13.00     | -21.80     | -      | -             | -36.82  | -39.10  |
| 3.701G      | 3.78G      | 430k    | 1.2M    | RMS      | 3.7015G  | -35.39     | -13.00     | -22.39     | MBW 1M | -             | -       | -       |
| 3.78G       | 5G         | 1M      | 3M      | RMS      | 3.83078G | -42.32     | -13.00     | -29.32     | -      | -             | -45.51  | -45.15  |
| 5G          | 19G        | 1M      | 3M      | RMS      | 18.9755G | -42.99     | -13.00     | -29.99     | -      | -             | -46.03  | -45.97  |

## Spectrum Mask Emissions (Max power antenna port) - Port 1



| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | QPSK       | 3697.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

03:01:39 AM Jan 06, 2020

Center Freq 3.697500000 GHz

Center Freq: 3.697500000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

#Atten: 10 dB

Avg: 100.00% of 10

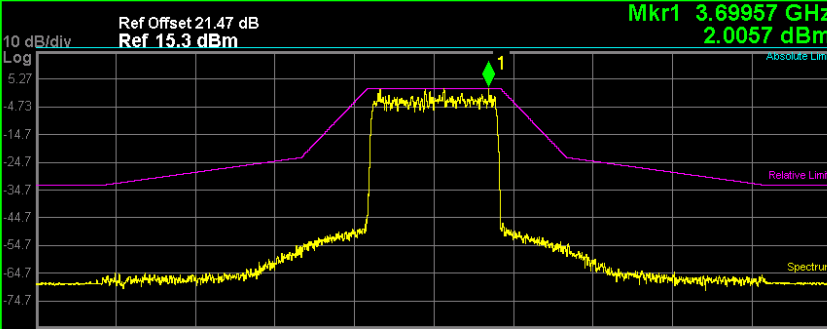
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.69957 GHz

2.0057 dBm



Center 3.698 GHz

Span 30 MHz

Total Power 14.05 dBm / 5 MHz

Spectrum Peak Ref 2.01 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Peak Freq (Hz) | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|----------------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —              | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -54.32 | (-32.32)       | -4.900 M       | -53.46         | 4.800 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -54.89 | (-31.65)       | -5.180 M       | -54.17         | 5.075 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.17 | (-34.18)       | -12.70 M       | -67.99         | 12.55 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |

MSG

STATUS

Frequency

Center Freq  
3.697500000 GHz

CF Step  
0 Hz

Auto

Freq Offset  
0 Hz

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 16QAM      | 3652.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

03:08:27 AM Jan 06, 2020

Center Freq 3.652500000 GHz

Center Freq: 3.652500000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

#Atten: 10 dB

Avg: 100.00% of 10

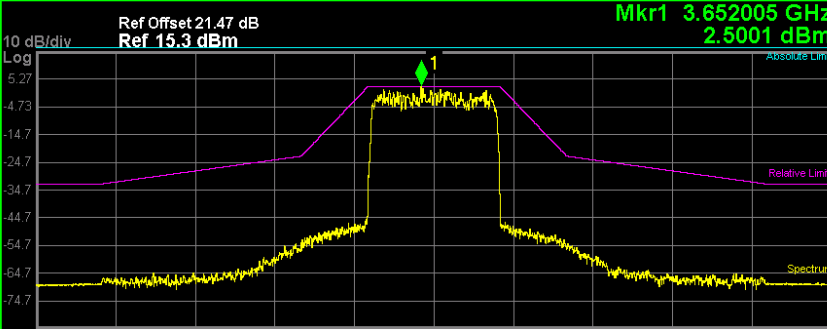
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.652005 GHz

2.5001 dBm



Center 3.653 GHz

Span 30 MHz

Total Power 14.72 dBm / 5 MHz

Spectrum Peak Ref 2.50 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Peak Freq (Hz) | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|----------------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —              | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -52.81 | (-30.69)       | -4.963 M       | -52.78         | 4.925 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -53.96 | (-31.18)       | -5.210 M       | -54.05         | 5.045 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.78 | (-35.28)       | -12.50 M       | -68.33         | 12.61 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —              | (—)            | —         |

MSG

STATUS

Frequency

Center Freq  
3.652500000 GHz

CF Step  
0 Hz

Auto

Freq Offset  
0 Hz



## Spectrum Mask Emissions Result

Appendix E

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 16QAM      | 3675        |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50  $\Omega$

DC

SENSE:INT

ALIGN OFF

03:04:14 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

10 dB/div

Log

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.67437 GHz

1.5088 dBm

Center 3.675 GHz

Span 30 MHz

Total Power 14.16 dBm / 5 MHz

Spectrum Peak Ref 1.51 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower $\Delta$ Lim(dB) | Freq (Hz) | < Peak > dBm | Upper $\Delta$ Lim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|------------------------|-----------|--------------|------------------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -53.87 | (-30.76)               | -4.963 M  | -53.27       | (-30.40)               | 4.938 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -55.20 | (-31.61)               | -5.075 M  | -54.63       | (-31.09)               | 5.030 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -68.18 | (-34.69)               | -12.63 M  | -67.98       | (-34.49)               | 13.11 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |

Frequency

Center Freq 3.675000000 GHz

CF Step 0 Hz

Auto

Freq Offset 0 Hz

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 16QAM      | 3697.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50  $\Omega$

DC

SENSE:INT

ALIGN OFF

03:03:00 AM Jan 06, 2020

Center Freq 3.697500000 GHz

Center Freq: 3.697500000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

10 dB/div

Log

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.69927 GHz

1.9002 dBm

Center 3.698 GHz

Span 30 MHz

Total Power 13.84 dBm / 5 MHz

Spectrum Peak Ref 1.90 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower $\Delta$ Lim(dB) | Freq (Hz) | < Peak > dBm | Upper $\Delta$ Lim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|------------------------|-----------|--------------|------------------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -54.23 | (-31.26)               | -4.988 M  | -54.78       | (-32.06)               | 4.963 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -54.06 | (-30.96)               | -5.000 M  | -65.62       | (-32.68)               | 12.38 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.45 | (-34.35)               | -12.70 M  | -68.00       | (-34.90)               | 13.11 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)                    | —         | —            | (—)                    | —         |

Frequency

Center Freq 3.697500000 GHz

CF Step 0 Hz

Auto

Freq Offset 0 Hz



## Spectrum Mask Emissions Result

Appendix E

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 64QAM      | 3652.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

03:09:40 AM Jan 06, 2020

Center Freq 3.652500000 GHz

Center Freq: 3.652500000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

# Atten: 10 dB

Avg: 100.00% of 10

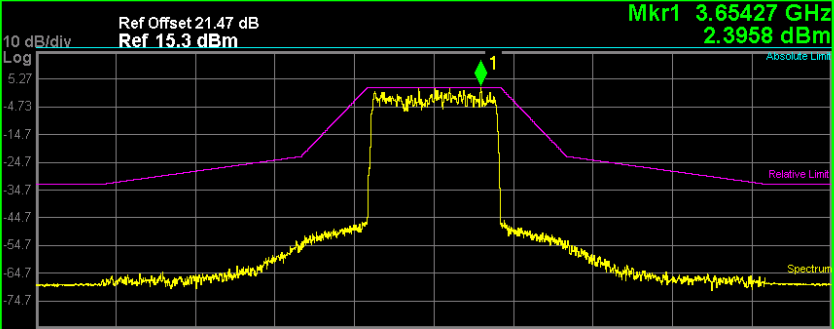
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.65427 GHz

2.3958 dBm



Center 3.653 GHz

Span 30 MHz

Total Power 14.72 dBm / 5 MHz

Spectrum Peak Ref 2.40 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | Peak dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|----------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —         | —        | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -51.23 | (-30.00)       | -4.863 M  | -53.09   | (-30.86)       | 4.963 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -52.88 | (-30.02)       | -5.195 M  | -53.12   | (-30.44)       | 5.060 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.83 | (-35.23)       | -12.50 M  | -68.13   | (-35.53)       | 12.64 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |

MSG

STATUS

Frequency

Center Freq  
3.652500000 GHz

CF Step  
0 Hz

Auto

Freq Offset  
0 Hz

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 64QAM      | 3675        |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

03:10:51 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

# Atten: 10 dB

Avg: 100.00% of 10

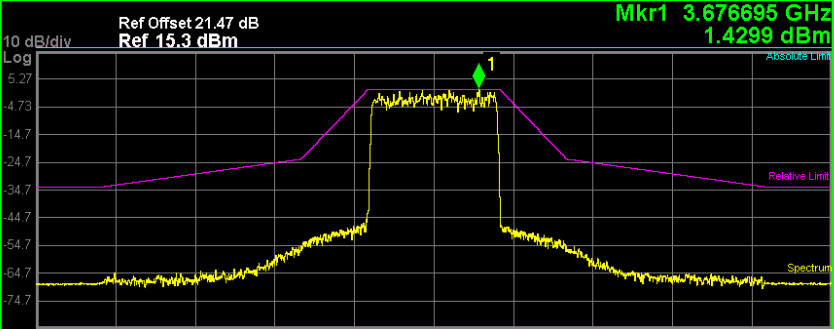
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.676695 GHz

1.4299 dBm



Center 3.675 GHz

Span 30 MHz

Total Power 14.43 dBm / 5 MHz

Spectrum Peak Ref 1.43 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | Peak dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|----------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —         | —        | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -54.20 | (-30.63)       | -5.000 M  | -52.95   | (-30.38)       | 4.900 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -54.74 | (-31.15)       | -5.015 M  | -55.24   | (-31.29)       | 5.285 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -68.21 | (-34.64)       | -12.59 M  | -68.05   | (-34.48)       | 12.78 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |

MSG

STATUS

Frequency

Center Freq  
3.675000000 GHz

CF Step  
0 Hz

Auto

Freq Offset  
0 Hz

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 64QAM      | 3697.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

03:12:08 AM Jan 06, 2020

Center Freq 3.697500000 GHz

Center Freq: 3.697500000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

#Atten: 10 dB

Avg: 100.00% of 10

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.698955 GHz

1.6384 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Absolute Lim

Relative Lim

Spectrum

Center 3.698 GHz

Span 30 MHz

Total Power

14.15 dBm / 5 MHz

Spectrum Peak Ref

1.64 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | Peak dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|----------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —         | —        | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -53.40 | (-31.04)       | -4.900 M  | -53.76   | (-31.52)       | 4.888 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -54.87 | (-31.41)       | -5.075 M  | -54.67   | (-31.19)       | 5.090 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.17 | (-33.80)       | -12.70 M  | -68.00   | (-34.64)       | 13.19 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |

MSG

STATUS

Frequency

Center Freq  
3.697500000 GHz

CF Step  
0 Hz  
Auto

Freq Offset  
0 Hz

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 256QAM     | 3652.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

03:16:45 AM Jan 06, 2020

Center Freq 3.652500000 GHz

Center Freq: 3.652500000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

#Atten: 10 dB

Avg: 100.00% of 10

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.65205 GHz

2.8689 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Absolute Lim

Relative Lim

Spectrum

Center 3.653 GHz

Span 30 MHz

Total Power

14.92 dBm / 5 MHz

Spectrum Peak Ref

2.87 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | Peak dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|----------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —         | —        | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -50.93 | (-30.80)       | -4.800 M  | -53.58   | (-31.82)       | 4.963 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -53.57 | (-31.34)       | -5.075 M  | -52.33   | (-30.10)       | 5.075 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -68.15 | (-36.02)       | -12.50 M  | -68.11   | (-35.98)       | 12.60 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —        | (—)            | —         |

MSG

STATUS

Frequency

Center Freq  
3.652500000 GHz

CF Step  
0 Hz  
Auto

Freq Offset  
0 Hz



## Spectrum Mask Emissions Result

Appendix E

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 256QAM     | 3675        |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

03:15:21 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.67635 GHz

2.0454 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.675 GHz

Span 30 MHz

Total Power 14.42 dBm / 5 MHz

Spectrum Peak Ref 2.05 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|--------------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —         | —            | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -52.48 | (-30.90)       | -4.863 M  | -51.63       | (-29.68)       | 4.900 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -54.87 | (-31.35)       | -5.420 M  | -54.85       | (-31.36)       | 5.405 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.88 | (-34.93)       | -12.60 M  | -67.95       | (-35.00)       | 12.83 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |

MSG

STATUS

Frequency

Center Freq 3.675000000 GHz

CF Step 0 Hz

Auto

Man

Freq Offset 0 Hz

| Worst Case Mode | Modulation | Freq. (MHz) |
|-----------------|------------|-------------|
| 5MHz            | 256QAM     | 3697.5      |

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

03:13:13 AM Jan 06, 2020

Center Freq 3.697500000 GHz

Center Freq: 3.697500000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.69885 GHz

1.1505 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.698 GHz

Span 30 MHz

Total Power 13.90 dBm / 5 MHz

Spectrum Peak Ref 1.15 dBm

| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|--------------|----------------|-----------|
| 0.0 Hz     | 2.500 MHz | 30.00 kHz | —      | (—)            | —         | —            | (—)            | —         |
| 2.500 MHz  | 5.000 MHz | 30.00 kHz | -53.07 | (-30.35)       | -4.888 M  | -53.38       | (-30.78)       | 4.875 M   |
| 5.000 MHz  | 12.50 MHz | 30.00 kHz | -65.47 | (-31.64)       | -12.49 M  | -55.65       | (-31.70)       | 5.075 M   |
| 12.50 MHz  | 15.00 MHz | 30.00 kHz | -67.10 | (-33.25)       | -12.70 M  | -68.03       | (-34.18)       | 12.91 M   |
| 8.000 MHz  | 12.50 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |
| 12.50 MHz  | 15.00 MHz | 1.000 MHz | —      | (—)            | —         | —            | (—)            | —         |

MSG

STATUS

Frequency

Center Freq 3.697500000 GHz

CF Step 0 Hz

Auto

Man

Freq Offset 0 Hz