

# FCC TEST REPORT

## (PART 27)

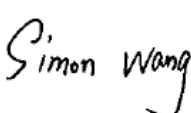
|            |                                             |
|------------|---------------------------------------------|
| Applicant: | HMD Global Oy                               |
| Address:   | Bertel Jungin aukio 9, 02600 Espoo, Finland |

|                           |                                             |
|---------------------------|---------------------------------------------|
| Manufacturer or Supplier: | HMD Global Oy                               |
| Address:                  | Bertel Jungin aukio 9, 02600 Espoo, Finland |
| Product:                  | Tablet PC                                   |
| Brand Name:               | NOKIA                                       |
| Model Name:               | TA-1495                                     |
| FCC ID:                   | 2AJOTTA-1495                                |
| Date of tests:            | Aug. 03, 2022 ~ Sep. 13, 2022               |

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 27**    ☒ **ANSI/TIA/EIA-603-D**  
☒ **FCC Part 2**    ☒ **ANSI/TIA/EIA-603-E**    ☒ **ANSI C63.26-2015**

**CONCLUSION:** The submitted sample was found to COMPLY with the test requirement

|                                                                                                            |                                                                                                             |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Prepared by Simon Wang<br>Engineer / Mobile Department                                                     | Approved by Luke Lu<br>Manager / Mobile Department                                                          |
| <br>Date: Sep. 13, 2022 | <br>Date: Sep. 13, 2022 |

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## TABLE OF CONTENTS

|                                                                |            |
|----------------------------------------------------------------|------------|
| <b>RELEASE CONTROL RECORD .....</b>                            | <b>4</b>   |
| <b>1 SUMMARY OF TEST RESULTS .....</b>                         | <b>5</b>   |
| 1.1 MEASUREMENT UNCERTAINTY .....                              | 6          |
| 1.2 TEST SITE AND INSTRUMENTS .....                            | 7          |
| <b>2 GENERAL INFORMATION .....</b>                             | <b>8</b>   |
| 2.1 GENERAL DESCRIPTION OF EUT .....                           | 8          |
| 2.2 CONFIGURATION OF SYSTEM UNDER TEST .....                   | 14         |
| 2.3 DESCRIPTION OF SUPPORT UNITS .....                         | 15         |
| 2.4 TEST ITEM AND TEST CONFIGURATION .....                     | 15         |
| 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS .....             | 25         |
| <b>3 TEST TYPES AND RESULTS .....</b>                          | <b>26</b>  |
| 3.1 OUTPUT POWER MEASUREMENT .....                             | 26         |
| 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT .....                 | 26         |
| 3.1.2 TEST PROCEDURES .....                                    | 26         |
| 3.1.3 TEST SETUP .....                                         | 27         |
| 3.1.4 TEST RESULTS .....                                       | 28         |
| 3.2 FREQUENCY STABILITY MEASUREMENT .....                      | 67         |
| 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT .....          | 67         |
| 3.2.2 TEST PROCEDURE .....                                     | 67         |
| 3.2.3 TEST SETUP .....                                         | 67         |
| 3.2.4 TEST RESULTS .....                                       | 68         |
| 3.3 OCCUPIED BANDWIDTH MEASUREMENT .....                       | 70         |
| 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT .....           | 70         |
| 3.3.2 TEST SETUP .....                                         | 70         |
| 3.3.3 TEST PROCEDURES .....                                    | 70         |
| 3.3.4 TEST RESULTS .....                                       | 71         |
| 3.4 BAND EDGE MEASUREMENT .....                                | 72         |
| 3.4.1 LIMITS OF BAND EDGE MEASUREMENT .....                    | 72         |
| 3.4.2 TEST SETUP .....                                         | 72         |
| 3.4.3 TEST PROCEDURES .....                                    | 72         |
| 3.4.4 TEST RESULTS .....                                       | 74         |
| 3.5 CONDUCTED SPURIOUS EMISSIONS .....                         | 75         |
| 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT ..... | 75         |
| 3.5.2 TEST PROCEDURE .....                                     | 75         |
| 3.5.3 TEST SETUP .....                                         | 75         |
| 3.5.4 TEST RESULTS .....                                       | 76         |
| 3.6 RADIATED EMISSION MEASUREMENT .....                        | 77         |
| 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT .....            | 77         |
| 3.6.2 TEST PROCEDURES .....                                    | 77         |
| 3.6.3 DEVIATION FROM TEST STANDARD .....                       | 77         |
| 3.6.4 TEST SETUP .....                                         | 78         |
| 3.6.5 TEST RESULTS .....                                       | 80         |
| 3.7 PEAK TO AVERAGE RATIO .....                                | 130        |
| 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT .....        | 130        |
| 3.7.2 TEST SETUP .....                                         | 130        |
| 3.7.3 TEST PROCEDURES .....                                    | 130        |
| 3.7.4 TEST RESULTS .....                                       | 131        |
| <b>4 INFORMATION ON THE TESTING LABORATORIES .....</b>         | <b>132</b> |



Test Report No.: W7L-P22080003RF06

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB. 133

6 APPENDIX ..... 134

LTE BAND7 ..... 134

LTE BAND41 ..... 228

LTE BAND CA\_41C ..... 333



Test Report No.: W7L-P22080003RF06

## RELEASE CONTROL RECORD

| ISSUE NO.         | REASON FOR CHANGE | DATE ISSUED   |
|-------------------|-------------------|---------------|
| W7L-P22080003RF06 | Original release  | Sep. 13, 2022 |

# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 27 & PART 2 |                                                                             |            |
|----------------------------------------|-----------------------------------------------------------------------------|------------|
| STANDARD SECTION                       | TEST TYPE AND LIMIT                                                         | RESULT     |
| §2.1046                                | Conducted Output Power                                                      | Compliance |
| §27.50(h)(2)                           | Equivalent Isotropically Radiated Power<br>(Band 7) (Band 38) (Band 41/41C) | Compliance |
| §2.1055<br>§27.54                      | Frequency Stability                                                         | Compliance |
| §2.1049                                | Occupied Bandwidth                                                          | Compliance |
| §2.1051<br>§27.53(m)(4)(6)             | Conducted Band Edge Measurements<br>(Band 7) (Band 38) (Band 41/41C)        | Compliance |
| §2.1051<br>§27.53(m)(4)(6)             | Conducted Spurious Emissions<br>(Band 7) (Band 38) (Band 41/41C)            | Compliance |
| §2.1053<br>§27.53(m)(4)(6)             | Radiated Spurious Emissions<br>(Band 7) (Band 38) (Band 41/41C)             | Compliance |
| NA                                     | Peak to average ratio                                                       | Compliance |

## NOTE:

1. This report refers to the data of W7L-P22070038RF06 (FCC ID: 2AJOTTA-1505, model: TA-1505) except to RSE and EIRP, the change between TA-1505 and TA-1495 is the difference of supporting bands and model name. In this report verify conducted power and RSE. So this report replaces the worst RSE data of supporting band, and updated the power of all supporting bands, adding the test datas of band 41C.

Detailed differences and validation are listed as below

| Quoted FCC ID | Model  | Supporting bands                                                         | Spot-Check            | Replace data                       |
|---------------|--------|--------------------------------------------------------------------------|-----------------------|------------------------------------|
| 2AJOTTA-1505  | TA1505 | GSM 850/1900<br>WCDMA Band 2/4/5<br>LTE Band2/4/5/7/7C/12/13/17/38/41/66 | Conducted power & RSE | RSE & Coducted Output Power & EIRP |
| 2AJOTTA-1495  | TA1495 | GSM 850/1900<br>WCDMA Band 5<br>LTE Band5/7/38/41/41C                    | Conducted power & RSE | RSE & Coducted Output Power & EIRP |

Note: The difference is only the supporting bands of WWAN, other parts are all the same.

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT                                        | UNCERTAINTY           |
|----------------------------------------------------|-----------------------|
| Frequency Stability                                | $\pm 76.97\text{Hz}$  |
| Radiated emissions & Radiated Power (30MHz~1GMHz)  | $\pm 4.98\text{dB}$   |
| Radiated emissions & Radiated Power (1GMHz ~6GMHz) | $\pm 4.70\text{dB}$   |
| Radiated emissions (6GMHz ~18GMHz)                 | $\pm 4.60\text{dB}$   |
| Radiated emissions (18GMHz ~40GMHz)                | $\pm 4.12\text{dB}$   |
| Conducted emissions                                | $\pm 4.01\text{dB}$   |
| Occupied Channel Bandwidth                         | $\pm 43.58\text{KHz}$ |
| Conducted Output power                             | $\pm 2.06\text{dB}$   |
| Band Edge Measurements                             | $\pm 4.70\text{dB}$   |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

## 1.2 TEST SITE AND INSTRUMENTS

| Equipment                                   | Manufacturer      | Model No.                       | Serial No.                          | Last Cal.   | Next Cal.   |
|---------------------------------------------|-------------------|---------------------------------|-------------------------------------|-------------|-------------|
| MXE EMI Receiver                            | KEYSIGHT          | N9038A-544                      | MY54450026                          | Feb. 21,22  | Feb. 20,23  |
| EXA Signal Analyzer                         | KEYSIGHT          | N9010A-544                      | MY54510355                          | May.15,22   | May.14,23   |
| Loop Antenna                                | Schwarzbeck       | FMZB 1519B                      | 00173                               | Sep.05,21   | Sep.04,22   |
| Loop Antenna                                | Schwarzbeck       | FMZB 1519B                      | 00173                               | Sep.04,22   | Sep.03,23   |
| Bilog Antenna                               | ETS-LINDGRE<br>N  | 3143B                           | 00161965                            | Mar. 06,22  | Mar. 05,23  |
| Horn Antenna                                | ETS-LINDGRE<br>N  | 3117                            | 00168692                            | Mar. 06,22  | Mar. 05,23  |
| Horn Antenna<br>(18GHz-40GHz)               | N/A               | QWH-SL-18-40-K-<br>SG/QMS-00361 | 15433                               | Aug. 25, 21 | Aug. 24, 22 |
| Horn Antenna<br>(18GHz-40GHz)               | N/A               | QWH-SL-18-40-K-<br>SG/QMS-00361 | 15433                               | Aug. 24, 22 | Aug. 23, 23 |
| Radio Communication<br>Analyzer             | ANRITSU           | MT8820C                         | 6201465426                          | Feb. 15,22  | Feb. 14,23  |
| Signal Pre-Amplifier                        | EMSI              | EMC 9135                        | 980249                              | May.12,22   | May.11,23   |
| Signal Pre-Amplifier                        | EMSI              | EMC 012645B                     | 980257                              | May.12,22   | May.11,23   |
| Signal Pre-Amplifier                        | EMSI              | EMC 184045B                     | 980259                              | Feb. 21,22  | Feb.20,23   |
| 3m<br>Semi-anechoic<br>Chamber              | ETS-LINDGRE<br>N  | 9m*6m*6m                        | Euroshieldpn-<br>CT0001143-121<br>6 | May. 19,20  | May. 18,23  |
| Test Software                               | E3                | V 9.160323                      | N/A                                 | N/A         | N/A         |
| Test Software                               | JS1120            | 3.1.36                          | N/A                                 | N/A         | N/A         |
| 10dB Attenuator                             | JFW/USA           | 50HF-010-SMA                    | 1505                                | May. 07,22  | May. 06,23  |
| Power Meter                                 | Anritsu           | ML2495A                         | 1506002                             | Feb. 22,22  | Feb. 21,23  |
| Power Sensor                                | Anritsu           | MA2411B                         | 1339352                             | May. 07,22  | May. 06,23  |
| Temperature Chamber                         | ESPEC             | SH-242                          | 93000855                            | May. 12,22  | May. 11,23  |
| MXG<br>Analog Microwave<br>Signal Generator | KEYSIGHT          | N5183A                          | MY50143024                          | Feb. 18,22  | Feb. 17,23  |
| Base station R&S<br>CMW500                  | Rohde&Schwa<br>rz | CMW500                          | 153085                              | May.12,22   | May.11,23   |
| DC Source                                   | Kikusui/JP        | PMX18-5A                        | 0000001                             | Aug. 25,21  | Aug. 24,22  |
| DC Source                                   | Kikusui/JP        | PMX18-5A                        | 0000001                             | Aug. 24,22  | Aug. 23,23  |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
  3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
  4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                              |                                                                |                       |
|------------------------------|----------------------------------------------------------------|-----------------------|
| <b>PRODUCT</b>               | Tablet PC                                                      |                       |
| <b>BRAND NAME</b>            | NOKIA                                                          |                       |
| <b>MODEL NAME</b>            | TA-1495                                                        |                       |
| <b>NOMINAL VOLTAGE</b>       | 5.0Vdc(adapter or host equipment)<br>3.85Vdc (Li-ion, battery) |                       |
| <b>MODULATION TECHNOLOGY</b> | LTE                                                            | QPSK, 16QAM, 64QAM    |
| <b>FREQUENCY RANGE</b>       | LTE Band 7<br>Channel Bandwidth: 5MHz                          | 2502.5MHz ~ 2567.5MHz |
|                              | LTE Band 7<br>Channel Bandwidth: 10MHz                         | 2505MHz ~ 2565MHz     |
|                              | LTE Band 7<br>Channel Bandwidth: 15MHz                         | 2507.5MHz ~ 2562.5MHz |
|                              | LTE Band 7<br>Channel Bandwidth: 20MHz                         | 2510MHz ~ 2560MHz     |
|                              | LTE Band 38<br>Channel Bandwidth: 5MHz                         | 2572.5MHz ~ 2617.5MHz |
|                              | LTE Band 38<br>Channel Bandwidth: 10MHz                        | 2575MHz ~ 2615MHz     |
|                              | LTE Band 38<br>Channel Bandwidth: 15MHz                        | 2577.5MHz ~ 2612.5MHz |
|                              | LTE Band 38<br>Channel Bandwidth: 20MHz                        | 2580MHz ~ 2610MHz     |
|                              | LTE Band 41<br>Channel Bandwidth: 5MHz                         | 2498.5MHz ~ 2687.5MHz |
|                              | LTE Band 41<br>Channel Bandwidth: 10MHz                        | 2501MHz ~ 2685MHz     |
|                              | LTE Band 41<br>Channel Bandwidth: 15MHz                        | 2503.5MHz ~ 2682.5MHz |
|                              | LTE Band 41<br>Channel Bandwidth: 20MHz                        | 2506MHz ~ 2680MHz     |
|                              | LTE Band CA_41C<br>Channel Bandwidth:<br>5MHz+20MHz            | 2499.3MHz ~ 2680MHz   |
|                              | LTE Band CA_41C<br>Channel Bandwidth:<br>10MHz+15MHz           | 2501.3MHz ~ 2682.5MHz |
|                              | LTE Band CA_41C<br>Channel Bandwidth:<br>10MHz+20MHz           | 2501.5MHz ~ 2680MHz   |



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Test Report No.: W7L-P22080003RF06

|                        |                                                      |                       |
|------------------------|------------------------------------------------------|-----------------------|
| <b>FREQUENCY RANGE</b> | LTE Band CA_41C<br>Channel Bandwidth:<br>15MHz+10MHz | 2503.5MHz ~ 2684.7MHz |
|                        | LTE Band CA_41C<br>Channel Bandwidth:<br>15MHz+15MHz | 2403.5MHz ~ 2682.5MHz |
|                        | LTE Band CA_41C<br>Channel Bandwidth:<br>15MHz+20MHz | 2503.8MHz ~ 2680MHz   |
|                        | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+5MHz  | 2506.0MHz ~ 2686.7MHz |
|                        | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+10MHz | 2506.0MHz ~ 2684.5MHz |
|                        | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+15MHz | 2506.0MHz ~ 2682.2MHz |
|                        | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+20MHz | 2506.0MHz ~ 2680MHz   |
| <b>MAX. EIRP POWER</b> | LTE Band 7<br>Channel Bandwidth: 5MHz                | 142.89mW              |
|                        | LTE Band 7<br>Channel Bandwidth: 10MHz               | 141.58mW              |
|                        | LTE Band 7<br>Channel Bandwidth: 15MHz               | 142.89mW              |
|                        | LTE Band 7<br>Channel Bandwidth: 20MHz               | 143.88mW              |
|                        | LTE Band 38<br>Channel Bandwidth: 5MHz               | 138.04mW              |
|                        | LTE Band 38<br>Channel Bandwidth: 10MHz              | 138.36mW              |
|                        | LTE Band 38<br>Channel Bandwidth: 15MHz              | 138.68mW              |
|                        | LTE Band 38<br>Channel Bandwidth: 20MHz              | 139.64mW              |
|                        | LTE Band 41<br>Channel Bandwidth: 5MHz               | 145.88mW              |
|                        | LTE Band 41<br>Channel Bandwidth: 10MHz              | 143.55mW              |
|                        | LTE Band 41<br>Channel Bandwidth: 15MHz              | 146.55mW              |
|                        | LTE Band 41<br>Channel Bandwidth: 20MHz              | 148.59mW              |



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Test Report No.: W7L-P22080003RF06

|                            |                                                      |                |
|----------------------------|------------------------------------------------------|----------------|
| <b>MAX. EIRP POWER</b>     | LTE Band CA_41C<br>Channel Bandwidth:<br>5MHz+20MHz  | 128.23mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+5MHz  | 130.32mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>10MHz+15MHz | 130.92mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>15MHz+10MHz | 131.22mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>15MHz+15MHz | 134.28mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>10MHz+20MHz | 133.66mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+10MHz | 136.14mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>15MHz+20MHz | 137.72mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+15MHz | 140.93mW       |
|                            | LTE Band CA_41C<br>Channel Bandwidth:<br>20MHz+20MHz | 148.25mW       |
| <b>EMISSION DESIGNATOR</b> | LTE Band 7<br>Channel Bandwidth: 5MHz                | QPSK: 4M50G7D  |
|                            |                                                      | 16QAM: 4M50W7D |
|                            |                                                      | 64QAM: 4M49W7D |
|                            | LTE Band 7<br>Channel Bandwidth: 10MHz               | QPSK: 8M99G7D  |
|                            |                                                      | 16QAM: 8M98W7D |
|                            |                                                      | 64QAM: 8M98W7D |
|                            | LTE Band 7<br>Channel Bandwidth: 15MHz               | QPSK: 13M5G7D  |
|                            |                                                      | 16QAM: 13M5W7D |
|                            |                                                      | 64QAM: 13M5W7D |
|                            | LTE Band 7<br>Channel Bandwidth: 20MHz               | QPSK: 18M0G7D  |
|                            |                                                      | 16QAM: 18M0W7D |
|                            |                                                      | 64QAM: 18M0W7D |

|                            |                                                                |                |
|----------------------------|----------------------------------------------------------------|----------------|
| <b>EMISSION DESIGNATOR</b> | <b>LTE Band 41<br/>Channel Bandwidth: 5MHz</b>                 | QPSK: 4M50G7D  |
|                            |                                                                | 16QAM: 4M49W7D |
|                            |                                                                | 64QAM: 4M50W7D |
|                            | <b>LTE Band 41<br/>Channel Bandwidth: 10MHz</b>                | QPSK: 8M99G7D  |
|                            |                                                                | 16QAM: 8M98W7D |
|                            |                                                                | 64QAM: 8M97W7D |
|                            | <b>LTE Band 41<br/>Channel Bandwidth: 15MHz</b>                | QPSK: 13M5G7D  |
|                            |                                                                | 16QAM: 13M5W7D |
|                            |                                                                | 64QAM: 13M5W7D |
|                            | <b>LTE Band 41<br/>Channel Bandwidth: 20MHz</b>                | QPSK: 17M9G7D  |
|                            |                                                                | 16QAM: 17M9W7D |
|                            |                                                                | 64QAM: 18M0W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>5MHz+20MHz</b>   | QPSK: 22M9G7D  |
|                            |                                                                | 16QAM: 23M0W7D |
|                            |                                                                | 64QAM: 22M9W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>10MHz+15MHz</b>  | QPSK: 23M3G7D  |
|                            |                                                                | 16QAM: 23M3W7D |
|                            |                                                                | 64QAM: 23M3W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>10MHz+20MHz</b>  | QPSK: 27M9G7D  |
|                            |                                                                | 16QAM: 27M9W7D |
|                            |                                                                | 64QAM: 27M9W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>15MHz +10MHz</b> | QPSK: 23M3G7D  |
|                            |                                                                | 16QAM: 23M3W7D |
|                            |                                                                | 64QAM: 23M3W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>15MHz +15MHz</b> | QPSK: 28M5G7D  |
|                            |                                                                | 16QAM: 28M5W7D |
|                            |                                                                | 64QAM: 28M5W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>15MHz +20MHz</b> | QPSK: 32M8G7D  |
|                            |                                                                | 16QAM: 32M8W7D |
|                            |                                                                | 64QAM: 32M8W7D |



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Test Report No.: W7L-P22080003RF06

|                            |                                                                                                                                                                          |                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>EMISSION DESIGNATOR</b> | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>20MHz +5MHz</b>                                                                                                            | QPSK: 22M9G7D  |
|                            |                                                                                                                                                                          | 16QAM: 22M9W7D |
|                            |                                                                                                                                                                          | 64QAM: 22M9W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>20MHz +10MHz</b>                                                                                                           | QPSK: 27M9G7D  |
|                            |                                                                                                                                                                          | 16QAM: 27M8W7D |
|                            |                                                                                                                                                                          | 64QAM: 27M8W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>20MHz +15MHz</b>                                                                                                           | QPSK: 32M8G7D  |
|                            |                                                                                                                                                                          | 16QAM: 32M8W7D |
|                            |                                                                                                                                                                          | 64QAM: 32M8W7D |
|                            | <b>LTE Band CA_41C<br/>Channel Bandwidth:<br/>20MHz +20MHz</b>                                                                                                           | QPSK: 37M7G7D  |
|                            |                                                                                                                                                                          | 16QAM: 37M7W7D |
|                            |                                                                                                                                                                          | 64QAM: 37M7W7D |
| <b>ANTENNA TYPE</b>        | Fixed Internal Antenna with -0.85dBi gain for LTE7<br>Fixed Internal Antenna with -0.85dBi gain for LTE38<br>Fixed Internal Antenna with -0.85dBi gain for LTE41/ LTE41C |                |
| <b>HW VERSION</b>          | EM_U1630_V1.2 L20                                                                                                                                                        |                |
| <b>SW VERSION</b>          | V0.492_B01                                                                                                                                                               |                |
| <b>I/O PORTS</b>           | Refer to user's manual                                                                                                                                                   |                |
| <b>CABLE SUPPLIED</b>      | USB cable: non-shielded cable, with w/o ferrite core, 1 meter<br>Earphone: non-shielded cable, with w/o ferrite core, 1.5 meter                                          |                |
| <b>EXTREME TEMPERATURE</b> | 0-40 °C                                                                                                                                                                  |                |
| <b>EXTREME VOLTAGE</b>     | 3.6V - 4. 4V                                                                                                                                                             |                |

**NOTE:**

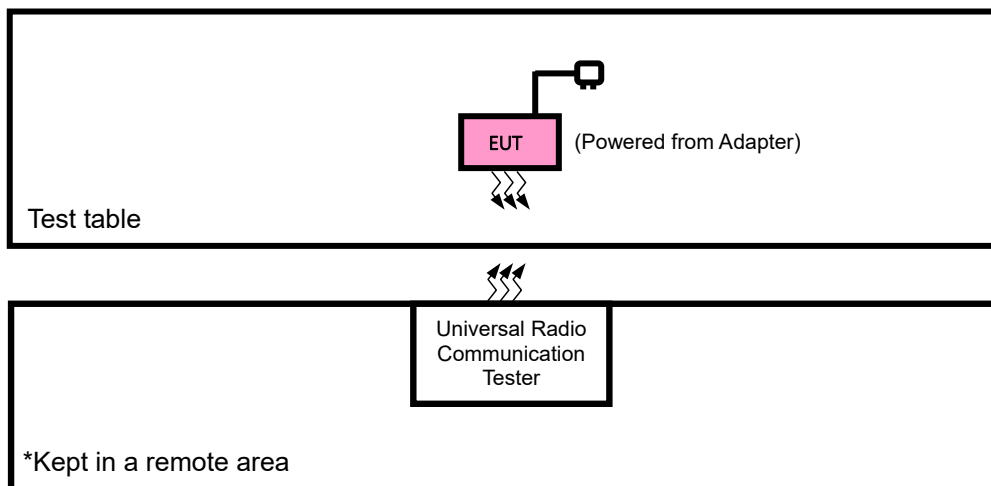
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

**List of Accessory:**

| ACCESSORIES | BRAND | MANUFACTURER                           | MODEL          | SPECIFICATION                             |
|-------------|-------|----------------------------------------|----------------|-------------------------------------------|
| Battery     | NOKIA | Guangdong Fenghua New Energy Co., Ltd. | WTT80          | Capacity: 3.8 Vdc, 8000mAh                |
| AC Adapter  | NOKIA | Shenzhen Baijunda Electronic Co., Ltd  | AD-010U        | I/P: 100-240Vac, 0.35A, O/P: 5.0Vdc, 2.0A |
| Earphone    | NOKIA | JUWEI ELECTRONICS CO., LTD             | JWEP1242-W09 H | Signal Line, 1.5meter                     |
| USB Cable   | NOKIA | Saibao (Jiangxi) Industrial Co., Ltd   | AC-2A          | Signal Line, 1.0meter                     |

## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION TEST



## 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT   | BRAND    | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-----------|----------|-----------|------------|--------|
| 1   | DC source | LONG WEI | PS-6403D  | 010934269  | N/A    |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|-----------------------------------------------------|
| 1   | DC Line: Unshielded, Detachable 1.8m                |

## 2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION                             |
|--------------------|-----------------------------------------|
| A                  | EUT + Adapter + USB Cable with LTE link |
| B                  | EUT + Battery with LTE link             |

**LTE BAND 7 MODE**

| EUT<br>CONFIGURE<br>MODE | TEST ITEM                   | AVAILABLE<br>CHANNEL | TESTED CHANNEL      | CHANNEL<br>BANDWIDT<br>H | MODULATION         | MODE                 |
|--------------------------|-----------------------------|----------------------|---------------------|--------------------------|--------------------|----------------------|
| <b>A</b>                 | EIRP                        | 20775 to 21425       | 20775, 21100, 21425 | 5MHz                     | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             | 20800 to 21400       | 20800, 21100, 21400 | 10MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0RB Offset    |
|                          |                             | 20825 to 21375       | 20825, 21100, 21375 | 15MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             | 20850 to 21350       | 20850, 21100, 21350 | 20MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
| <b>B</b>                 | FREQUENCY<br>STABILITY      | 20775 to 21425       | 20775, 21100, 21425 | 5MHz                     | QPSK, 16QAM, 64QAM | 25 RB / 0 RB Offset  |
|                          |                             | 20800 to 21400       | 20800, 21100, 21400 | 10MHz                    | QPSK, 16QAM, 64QAM | 50 RB / 0 RB Offset  |
|                          |                             | 20825 to 21375       | 20825, 21100, 21375 | 15MHz                    | QPSK, 16QAM, 64QAM | 75 RB / 0 RB Offset  |
|                          |                             | 20850 to 21350       | 20850, 21100, 21350 | 20MHz                    | QPSK, 16QAM, 64QAM | 100 RB / 0 RB Offset |
| <b>A</b>                 | OCCUPIED<br>BANDWIDTH       | 20775 to 21425       | 20775, 21100, 21425 | 5MHz                     | QPSK, 16QAM, 64QAM | 25 RB / 0 RB Offset  |
|                          |                             | 20800 to 21400       | 20800, 21100, 21400 | 10MHz                    | QPSK, 16QAM, 64QAM | 50 RB / 0 RB Offset  |
|                          |                             | 20825 to 21375       | 20825, 21100, 21375 | 15MHz                    | QPSK, 16QAM, 64QAM | 75 RB / 0 RB Offset  |
|                          |                             | 20850 to 21350       | 20850, 21100, 21350 | 20MHz                    | QPSK, 16QAM, 64QAM | 100 RB / 0 RB Offset |
| <b>A</b>                 | BAND EDGE                   | 20775 to 21425       | 20775               | 5MHz                     | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             |                      | 21425               | 5MHz                     | QPSK, 16QAM, 64QAM | 25 RB / 0 RB Offset  |
|                          |                             | 20800 to 21400       | 20800               | 10MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 24 RB Offset  |
|                          |                             |                      | 21400               | 10MHz                    | QPSK, 16QAM, 64QAM | 25 RB / 0 RB Offset  |
|                          |                             | 20825 to 21375       | 20825               | 15MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             |                      | 21375               | 15MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             | 20850 to 21350       | 20850               | 20MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 49 RB Offset  |
|                          |                             |                      | 21350               | 20MHz                    | QPSK, 16QAM, 64QAM | 50 RB / 0 RB Offset  |
|                          |                             | 20825 to 21375       | 20825               | 15MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             |                      | 21375               | 15MHz                    | QPSK, 16QAM, 64QAM | 75 RB / 0 RB Offset  |
|                          |                             | 20850 to 21350       | 20850               | 20MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 74 RB Offset  |
|                          |                             |                      | 21350               | 20MHz                    | QPSK, 16QAM, 64QAM | 75 RB / 0 RB Offset  |
| <b>A</b>                 | CONDCUDE<br>TED<br>EMISSION | 20775 to 21425       | 20775, 21100, 21425 | 5MHz                     | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             | 20800 to 21400       | 20800, 21100, 21400 | 10MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0RB Offset    |
|                          |                             | 20825 to 21375       | 20825, 21100, 21375 | 15MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                          |                             | 20850 to 21350       | 20850, 21100, 21350 | 20MHz                    | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
| <b>A</b>                 | RADIATED<br>EMISSION        | 20775 to 21425       | 21100               | 5MHz                     | QPSK               | 1 RB / 0 RB Offset   |
|                          |                             | 20800 to 21400       | 20800, 21100, 21400 | 10MHz                    | QPSK               | 1 RB / 0 RB Offset   |
|                          |                             | 20825 to 21375       | 21100               | 15MHz                    | QPSK               | 1 RB / 0 RB Offset   |
|                          |                             | 20850 to 21350       | 21100               | 20MHz                    | QPSK               | 1 RB / 0 RB Offset   |

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

### LTE BAND 38 MODE

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE               |
|--------------------|-----------|-------------------|---------------------|-------------------|--------------------|--------------------|
| A                  | EIRP      | 37775 to 38225    | 37775, 38000, 38225 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
|                    |           | 37800 to 38200    | 37800, 38000, 38200 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0RB Offset  |
|                    |           | 37825 to 38175    | 37825, 38000, 38175 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
|                    |           | 37850 to 38150    | 37850, 38000, 38150 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |

**Note:** 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 38 are covered by LTE Band 41, Because it is a subset of LTE Band 41 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 41

### LTE BAND 41 MODE

| EUT CONFIGURE MODE | TEST ITEM           | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                 |
|--------------------|---------------------|-------------------|---------------------|-------------------|--------------------|----------------------|
| A                  | EIRP                | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                    |                     | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0RB Offset    |
|                    |                     | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                    |                     | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
| B                  | FREQUENCY STABILITY | 39675 to 41565    | 39675, 41565        | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                    |                     | 39700 to 41540    | 39700, 41540        | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0RB Offset    |
|                    |                     | 39725 to 41515    | 39725, 41515        | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                    |                     | 39750 to 41490    | 39750, 41490        | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
| A                  | OCCUPIED BANDWIDTH  | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK, 16QAM, 64QAM | 25 RB / 0 RB Offset  |
|                    |                     | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK, 16QAM, 64QAM | 50 RB / 0 RB Offset  |
|                    |                     | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK, 16QAM, 64QAM | 75 RB / 0 RB Offset  |
|                    |                     | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK, 16QAM, 64QAM | 100 RB / 0 RB Offset |
| A                  | BAND EDGE           | 39675 to 41565    | 39675               | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|                    |                     |                   |                     |                   |                    | 25 RB / 0 RB Offset  |
|                    |                     | 41565             |                     | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB / 24 RB Offset  |
|                    |                     |                   |                     |                   |                    | 25 RB / 0 RB Offset  |
|                    |                     | 39700 to 41540    |                     |                   |                    | 1 RB / 0 RB Offset   |
|                    |                     |                   | 39700               | 10MHz             | QPSK, 16QAM, 64QAM | 50 RB / 0 RB Offset  |

|          |                    |                |                     |       |                    |                      |
|----------|--------------------|----------------|---------------------|-------|--------------------|----------------------|
|          |                    |                | 41540               | 10MHz | QPSK, 16QAM, 64QAM | 1 RB / 49 RB Offset  |
|          |                    |                |                     |       |                    | 50 RB / 0 RB Offset  |
|          |                    | 39725 to 41515 | 39725               | 15MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|          |                    |                |                     |       |                    | 75 RB / 0 RB Offset  |
|          |                    |                | 41515               | 15MHz | QPSK, 16QAM, 64QAM | 1 RB / 74 RB Offset  |
|          |                    |                |                     |       |                    | 75 RB / 0 RB Offset  |
|          |                    | 39750 to 41490 | 39750               | 20MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|          |                    |                |                     |       |                    | 100 RB / 0 RB Offset |
|          |                    |                | 41490               | 20MHz | QPSK, 16QAM, 64QAM | 1 RB / 99 RB Offset  |
|          |                    |                |                     |       |                    | 100 RB / 0 RB Offset |
| <b>A</b> | CONDUCTED EMISSION | 39675 to 41565 | 39675, 40620, 41565 | 5MHz  | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|          |                    | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|          |                    | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
|          |                    | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset   |
| <b>A</b> | RADIATED EMISSION  | 39675 to 41565 | 40620               | 5MHz  | QPSK               | 1 RB / 0 RB Offset   |
|          |                    | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK               | 1 RB / 0 RB Offset   |
|          |                    | 39725 to 41515 | 40620               | 15MHz | QPSK               | 1 RB / 0 RB Offset   |
|          |                    | 39750 to 41490 | 40620               | 20MHz | QPSK               | 1 RB / 0 RB Offset   |

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

**LTE BAND CA\_41C MODE**

| EUT<br>CONFIGURE<br>MODE | TEST ITEM             | AVAILABLE<br>PCC<br>CHANNEL | AVAILABLE<br>SCC<br>CHANNEL | TESTED<br>CHANNEL | CHANNEL<br>BANDWIDTH | MODULATION         | MODE(PCC)                             | MODE(SCC)         |
|--------------------------|-----------------------|-----------------------------|-----------------------------|-------------------|----------------------|--------------------|---------------------------------------|-------------------|
| A                        | EIRP                  | 39750 to 41341              | 39921 to 41512              | Low, Middle, High | 20MHz+15MHz          | QPSK, 16QAM, 64QAM | 1RB/ 99RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39728 to 41319              | 39899 to 41490              | Low, Middle, High | 15MHz+20MHz          | QPSK, 16QAM, 64QAM | 1RB/ 74RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39750 to 41391              | 39894 to 41535              | Low, Middle, High | 20MHz+10MHz          | QPSK, 16QAM, 64QAM | 1RB/ 99RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39705 to 41346              | 39849 to 41490              | Low, Middle, High | 10MHz+20MHz          | QPSK, 16QAM, 64QAM | 1RB/ 49RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39725 to 41365              | 39875 to 41515              | Low, Middle, High | 15MHz +15MHz         | QPSK, 16QAM, 64QAM | 1RB/ 74RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39725 to 41417              | 39845 to 41537              | Low, Middle, High | 15MHz +10MHz         | QPSK, 16QAM, 64QAM | 1RB / 74RB Offset                     | 1RB / 0RB Offset  |
|                          |                       | 39703 to 41395              | 39823 to 41515              | Low, Middle, High | 10MHz +15MHz         | QPSK, 16QAM, 64QAM | 1RB/ 49RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39750 to 41440              | 39867 to 41557              | Low, Middle, High | 20MHz +5MHz          | QPSK, 16QAM, 64QAM | 1RB/ 99RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39683 to 41373              | 39800 to 41490              | Low, Middle, High | 5MHz +20MHz          | QPSK, 16QAM, 64QAM | 1RB/ 24RB Offset                      | 1RB/ 0RB Offset   |
|                          |                       | 39750 to 41292              | 39948 to 41490              | Low, Middle, High | 20MHz +20MHz         | QPSK, 16QAM, 64QAM | 1RB / 99RB Offset<br>1RB / 0RB Offset | 1RB/ 0RB Offset   |
| A                        | OCCUPIED<br>BANDWIDTH | 39750 to 41341              | 39921 to 41512              | Low, Middle, High | 20MHz+15MHz          | QPSK, 16QAM, 64QAM | 100RB/ 0RB Offset                     | 75RB/ 0RB Offset  |
|                          |                       | 39728 to 41319              | 39899 to 41490              | Low, Middle, High | 15MHz+20MHz          | QPSK, 16QAM, 64QAM | 75RB/ 0RB Offset                      | 100RB/ 0RB Offset |
|                          |                       | 39750 to 41391              | 39894 to 41535              | Low, Middle, High | 20MHz+10MHz          | QPSK, 16QAM, 64QAM | 100RB/ 0RB Offset                     | 50RB/ 0RB Offset  |
|                          |                       | 39705 to 41346              | 39849 to 41490              | Low, Middle, High | 10MHz+20MHz          | QPSK, 16QAM, 64QAM | 50RB/ 0RB Offset                      | 100RB/ 0RB Offset |
|                          |                       | 39725 to 41365              | 39875 to 41515              | Low, Middle, High | 15MHz +15MHz         | QPSK, 16QAM, 64QAM | 75RB/ 0RB Offset                      | 75RB/ 0RB Offset  |
|                          |                       | 39725 to 41417              | 39845 to 41537              | Low, Middle, High | 15MHz +10MHz         | QPSK, 16QAM, 64QAM | 75RB/ 0RB Offset                      | 50RB/ 0RB Offset  |
|                          |                       | 39703 to 41395              | 39823 to 41515              | Low, Middle, High | 10MHz +15MHz         | QPSK, 16QAM, 64QAM | 50RB/ 0RB Offset                      | 75RB/ 0RB Offset  |
|                          |                       | 39750 to 41440              | 39867 to 41557              | Low, Middle, High | 20MHz +5MHz          | QPSK, 16QAM, 64QAM | 100RB/ 0RB Offset                     | 25RB/ 0RB Offset  |
|                          |                       | 39683 to 41373              | 39800 to 41490              | Low, Middle, High | 5MHz +20MHz          | QPSK, 16QAM, 64QAM | 25RB/ 0RB Offset                      | 100RB/ 0RB Offset |

|   |           |                |                |                   |              |                    |                   |                   |
|---|-----------|----------------|----------------|-------------------|--------------|--------------------|-------------------|-------------------|
|   |           | 39750 to 41292 | 39948 to 41490 | Low, Middle, High | 20MHz +20MHz |                    | 100RB/ 0RB Offset | 100RB/ 0RB Offset |
| A | BAND EDGE | 39750 to 41341 | 39921 to 41512 | Low               | 20MHz+15MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 74RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 99RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 100RB/ 0RB Offset | 75RB/ 0RB Offset  |
|   |           |                |                | High              | 20MHz+15MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 74RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 99RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 100RB/ 0RB Offset | 75RB/ 0RB Offset  |
|   |           | 39728 to 41319 | 39899 to 41490 | Low               | 15MHz+20MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 99RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 74RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 75RB/ 0RB Offset  | 100RB/ 0RB Offset |
|   |           |                |                | High              | 15MHz+20MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 99RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 74RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 75RB/ 0RB Offset  | 100RB/ 0RB Offset |
|   |           | 39750 to 41391 | 39894 to 41535 | Low               | 20MHz+10MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 49RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 99RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 100RB/ 0RB Offset | 50RB/ 0RB Offset  |
|   |           |                |                | High              | 20MHz+10MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 49RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 99RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 100RB/ 0RB Offset | 50RB/ 0RB Offset  |
|   |           | 39705 to 41346 | 39849 to 41490 | Low               | 10MHz+20MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 99RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 49RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 50RB/ 0RB Offset  | 100RB/ 0RB Offset |
|   |           |                |                | High              | 10MHz+20MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 99RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 49RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                |                   |              |                    | 50RB/ 0RB Offset  | 100RB/ 0RB Offset |
|   |           | 39725 to 41365 | 39875 to 41515 | Low               | 15MHz+15MHz  | QPSK, 16QAM, 64QAM | 1RB/ 0RB Offset   | 1RB/ 74RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 74RB Offset  | 1RB/ 0RB Offset   |
|   |           |                |                | High              | 15MHz+15MHz  | QPSK, 16QAM, 64QAM | 75RB/ 0RB Offset  | 75RB/ 0RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 0RB Offset   | 1RB/ 74RB Offset  |
|   |           |                |                |                   |              |                    | 1RB/ 74RB Offset  | 1RB/ 0RB Offset   |

|   |           |                   |                   |      |             |                       |                      |                      |
|---|-----------|-------------------|-------------------|------|-------------|-----------------------|----------------------|----------------------|
| A | BAND EDGE |                   |                   |      |             |                       | 75RB/ 0RB<br>Offset  | 75RB/ 0RB<br>Offset  |
|   |           | 39725 to<br>41417 | 39845 to<br>41537 | Low  | 15MHz+10MHz | QPSK, 16QAM,<br>64QAM | 1RB/ 0RB<br>Offset   | 1RB/ 49RB<br>Offset  |
|   |           |                   |                   |      |             |                       | 1RB/ 74RB<br>Offset  | 1RB/ 0RB<br>Offset   |
|   |           |                   |                   | High | 15MHz+10MHz | QPSK, 16QAM,<br>64QAM | 75RB/ 0RB<br>Offset  | 50RB/ 0RB<br>Offset  |
|   |           |                   |                   |      |             |                       | 1RB/ 0RB<br>Offset   | 1RB/ 49RB<br>Offset  |
|   |           | 39703 to<br>41395 | 39823 to<br>41515 | Low  | 10MHz+15MHz | QPSK, 16QAM,<br>64QAM | 1RB/ 74RB<br>Offset  | 1RB/ 0RB<br>Offset   |
|   |           |                   |                   |      |             |                       | 75RB/ 0RB<br>Offset  | 50RB/ 0RB<br>Offset  |
|   |           |                   |                   | High | 10MHz+15MHz | QPSK, 16QAM,<br>64QAM | 1RB/ 0RB<br>Offset   | 1RB/ 74RB<br>Offset  |
|   |           |                   |                   |      |             |                       | 1RB/ 49RB<br>Offset  | 1RB/ 0RB<br>Offset   |
|   |           | 39750 to<br>41440 | 39867 to<br>41557 | Low  | 20MHz+5MHz  | QPSK, 16QAM,<br>64QAM | 50RB/ 0RB<br>Offset  | 75RB/ 0RB<br>Offset  |
|   |           |                   |                   |      |             |                       | 1RB/ 0RB<br>Offset   | 1RB/ 24RB<br>Offset  |
|   |           |                   |                   | High | 20MHz+5MHz  | QPSK, 16QAM,<br>64QAM | 1RB/ 99RB<br>Offset  | 1RB/ 0RB<br>Offset   |
|   |           |                   |                   |      |             |                       | 100RB/ 0RB<br>Offset | 25RB/ 0RB<br>Offset  |
|   |           | 39683 to<br>41373 | 39800 to<br>41490 | Low  | 5MHz+20MHz  | QPSK, 16QAM,<br>64QAM | 1RB/ 0RB<br>Offset   | 1RB/ 99RB<br>Offset  |
|   |           |                   |                   |      |             |                       | 1RB/ 24RB<br>Offset  | 1RB/ 0RB<br>Offset   |
|   |           |                   |                   | High | 5MHz+20MHz  | QPSK, 16QAM,<br>64QAM | 25RB/ 0RB<br>Offset  | 100RB/ 0RB<br>Offset |
|   |           |                   |                   |      |             |                       | 1RB/ 0RB<br>Offset   | 1RB/ 99RB<br>Offset  |
|   |           | 39750 to<br>41292 | 39948 to<br>41490 | Low  | 20MHz+20MHz | QPSK, 16QAM,<br>64QAM | 1RB/ 24RB<br>Offset  | 1RB/ 0RB<br>Offset   |
|   |           |                   |                   |      |             |                       | 25RB/ 0RB<br>Offset  | 100RB/ 0RB<br>Offset |
|   |           |                   |                   | High | 20MHz+20MHz | QPSK, 16QAM,<br>64QAM | 1RB/ 0RB<br>Offset   | 1RB/ 99RB<br>Offset  |
|   |           |                   |                   |      |             |                       | 1RB/ 99RB<br>Offset  | 1RB/ 0RB<br>Offset   |

|   |                       |                   |                   |                         |              |       | 100RB/ 0RB<br>Offset                        | 100RB/ 0RB<br>Offset |
|---|-----------------------|-------------------|-------------------|-------------------------|--------------|-------|---------------------------------------------|----------------------|
| A | CONDCUDED<br>EMISSION | 39750 to<br>41341 | 39921 to<br>41512 | Low,<br>Middle,<br>High | 20MHz+15MHz  | QPSK, | 1RB/ 99RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39728 to<br>41319 | 39899 to<br>41490 | Low,<br>Middle,<br>High | 15MHz+20MHz  | QPSK, | 1RB/ 74RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39750 to<br>41391 | 39894 to<br>41535 | Low,<br>Middle,<br>High | 20MHz+10MHz  | QPSK, | 1RB/ 99RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39705 to<br>41346 | 39849 to<br>41490 | Low,<br>Middle,<br>High | 10MHz+20MHz  | QPSK, | 1RB/ 49RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39725 to<br>41365 | 39875 to<br>41515 | Low,<br>Middle,<br>High | 15MHz +15MHz | QPSK, | 1RB/ 74RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39725 to<br>41417 | 39845 to<br>41537 | Low,<br>Middle,<br>High | 15MHz +10MHz | QPSK, | 1RB / 74RB<br>Offset                        | 1RB / 0RB<br>Offset  |
|   |                       | 39703 to<br>41395 | 39823 to<br>41515 | Low,<br>Middle,<br>High | 10MHz +15MHz | QPSK, | 1RB/ 49RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39750 to<br>41440 | 39867 to<br>41557 | Low,<br>Middle,<br>High | 20MHz +5MHz  | QPSK, | 1RB/ 99RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39683 to<br>41373 | 39800 to<br>41490 | Low,<br>Middle,<br>High | 5MHz +20MHz  | QPSK, | 1RB/ 24RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39750 to<br>41341 | 39921 to<br>41512 | Low,<br>Middle,<br>High | 20MHz+15MHz  | QPSK, | 1RB / 99RB<br>Offset<br>1RB / 0RB<br>Offset | 1RB/ 0RB<br>Offset   |
| A | RADIATED<br>EMISSION  | 39750 to<br>41341 | 39921 to<br>41512 | Middle                  | 20MHz+15MHz  | QPSK, | 1RB/ 99RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39728 to<br>41319 | 39899 to<br>41490 | Middle,                 | 15MHz+20MHz  | QPSK, | 1RB/ 74RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39750 to<br>41391 | 39894 to<br>41535 | Middle                  | 20MHz+10MHz  | QPSK, | 1RB/ 99RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39705 to<br>41346 | 39849 to<br>41490 | Middle                  | 10MHz+20MHz  | QPSK, | 1RB/ 49RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39725 to<br>41365 | 39875 to<br>41515 | Middle,                 | 15MHz +15MHz | QPSK, | 1RB/ 74RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39725 to<br>41417 | 39845 to<br>41537 | Middle,                 | 15MHz +10MHz | QPSK, | 1RB / 74RB<br>Offset                        | 1RB / 0RB<br>Offset  |
|   |                       | 39703 to<br>41395 | 39823 to<br>41515 | Middle                  | 10MHz +15MHz | QPSK, | 1RB/ 49RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39750 to<br>41440 | 39867 to<br>41557 | Middle,                 | 20MHz +5MHz  | QPSK, | 1RB/ 99RB<br>Offset                         | 1RB/ 0RB<br>Offset   |
|   |                       | 39683 to<br>41373 | 39800 to<br>41490 | Low,<br>Middle,<br>High | 5MHz +20MHz  | QPSK, | 1RB/ 24RB<br>Offset                         | 1RB/ 0RB<br>Offset   |



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Test Report No.: W7L-P22080003RF06

|  |  |                   |                   |         |             |       |                                             |                    |
|--|--|-------------------|-------------------|---------|-------------|-------|---------------------------------------------|--------------------|
|  |  | 39750 to<br>41341 | 39921 to<br>41512 | Middle, | 20MHz+15MHz | QPSK, | 1RB / 99RB<br>Offset<br>1RB / 0RB<br>Offset | 1RB/ 0RB<br>Offset |
|--|--|-------------------|-------------------|---------|-------------|-------|---------------------------------------------|--------------------|

**Note:** 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



Test Report No.: W7L-P22080003RF06

**TEST CONDITION:**

| TEST ITEM             | ENVIRONMENTAL CONDITIONS | INPUT POWER        | TESTED BY |
|-----------------------|--------------------------|--------------------|-----------|
| ERP&EIRP              | 23deg. C, 70%RH          | DC 5V By Adapter   | Jace Hu   |
| FREQUENCY STABILITY   | 23deg. C, 70%RH          | DC 3.8V By Battery | James Fu  |
| OCCUPIED BANDWIDTH    | 23deg. C, 70%RH          | DC5V By Adapter    | James Fu  |
| BAND EDGE             | 23deg. C, 70%RH          | DC 5V By Adapter   | James Fu  |
| CONDCUDED EMISSION    | 23deg. C, 70%RH          | DC5V By Adapter    | James Fu  |
| RADIATED EMISSION     | 23deg. C, 70%RH          | DC5V By Adapter    | Jace Hu   |
| PEAK TO AVERAGE RATIO | 23deg. C, 70%RH          | DC5V By Adapter    | James Fu  |



Test Report No.: W7L-P22080003RF06

## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 27**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-D**

**ANSI/TIA/EIA-603-E**

**ANSI C63.26-2015**

**NOTE:** All test items have been performed and recorded as per the above standards.

### 3 TEST TYPES AND RESULTS

#### 3.1 OUTPUT POWER MEASUREMENT

##### 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

##### 3.1.2 TEST PROCEDURES

###### EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively  
(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_{\text{T}}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

###### CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

### 3.1.3 TEST SETUP

#### CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.4 TEST RESULTS

#### AVERAGE CONDUCTED OUTPUT POWER (dBm)

##### LTE Band 7

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH<br>20775         | Mid CH<br>21100       | High CH<br>21425        |
|---------|------------|------------|--------------|-------------------------|-----------------------|-------------------------|
|         |            |            |              | Frequency<br>2502.5 MHz | Frequency<br>2535 MHz | Frequency<br>2567.5 MHz |
| 7/5     | QPSK       | 1          | 0            | 22.26                   | 22.03                 | 22.15                   |
|         |            | 1          | 12           | 22.22                   | 22.07                 | 22.23                   |
|         |            | 1          | 24           | 22.39                   | 22.14                 | 22.40                   |
|         |            | 12         | 0            | 21.14                   | 20.92                 | 21.09                   |
|         |            | 12         | 6            | 21.12                   | 20.91                 | 21.18                   |
|         |            | 12         | 13           | 21.22                   | 21.01                 | 21.23                   |
|         |            | 25         | 0            | 21.13                   | 20.90                 | 21.13                   |
|         | 16QAM      | 1          | 0            | 21.31                   | 21.06                 | 21.29                   |
|         |            | 1          | 12           | 21.35                   | 21.22                 | 21.35                   |
|         |            | 1          | 24           | 21.47                   | 21.25                 | 21.50                   |
|         |            | 12         | 0            | 20.25                   | 19.98                 | 20.20                   |
|         |            | 12         | 6            | 20.25                   | 20.04                 | 20.31                   |
|         |            | 12         | 13           | 20.33                   | 20.17                 | 20.25                   |
|         |            | 25         | 0            | 20.27                   | 20.10                 | 20.29                   |
|         | 64QAM      | 1          | 0            | 20.65                   | 20.38                 | 20.57                   |
|         |            | 1          | 12           | 20.62                   | 20.43                 | 20.62                   |
|         |            | 1          | 24           | 20.64                   | 20.40                 | 20.61                   |
|         |            | 12         | 0            | 19.28                   | 19.10                 | 19.21                   |
|         |            | 12         | 6            | 19.24                   | 19.09                 | 19.28                   |
|         |            | 12         | 13           | 19.44                   | 19.23                 | 19.35                   |
|         |            | 25         | 0            | 19.30                   | 19.16                 | 19.21                   |

| Band/BW | Modulation | RB Size | RB Offset | Low CH 20800       | Mid CH 21100       | High CH 21400      |
|---------|------------|---------|-----------|--------------------|--------------------|--------------------|
|         |            |         |           | Frequency 2505 MHz | Frequency 2535 MHz | Frequency 2565 MHz |
| 7/ 10   | QPSK       | 1       | 0         | 22.24              | 22.00              | 22.18              |
|         |            | 1       | 24        | 22.28              | 22.00              | 22.27              |
|         |            | 1       | 49        | 22.35              | 22.15              | 22.36              |
|         |            | 25      | 0         | 21.18              | 20.86              | 21.13              |
|         |            | 25      | 12        | 21.11              | 20.92              | 21.15              |
|         |            | 25      | 25        | 21.27              | 20.97              | 21.26              |
|         |            | 50      | 0         | 21.13              | 20.91              | 21.10              |
|         | 16QAM      | 1       | 0         | 21.33              | 21.04              | 21.35              |
|         |            | 1       | 24        | 21.40              | 21.22              | 21.33              |
|         |            | 1       | 49        | 21.49              | 21.22              | 21.46              |
|         |            | 25      | 0         | 20.30              | 19.99              | 20.23              |
|         |            | 25      | 12        | 20.30              | 20.01              | 20.32              |
|         |            | 25      | 25        | 20.33              | 20.15              | 20.26              |
|         |            | 50      | 0         | 20.33              | 20.03              | 20.30              |
|         | 64QAM      | 1       | 0         | 20.61              | 20.39              | 20.60              |
|         |            | 1       | 24        | 20.67              | 20.38              | 20.62              |
|         |            | 1       | 49        | 20.66              | 20.38              | 20.64              |
|         |            | 25      | 0         | 19.28              | 19.04              | 19.22              |
|         |            | 25      | 12        | 19.31              | 19.08              | 19.22              |
|         |            | 25      | 25        | 19.43              | 19.20              | 19.37              |
|         |            | 50      | 0         | 19.35              | 19.12              | 19.22              |

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH 20825            | Mid CH 21100          | High CH 21375           |
|---------|------------|------------|--------------|-------------------------|-----------------------|-------------------------|
|         |            |            |              | Frequency<br>2507.5 MHz | Frequency<br>2535 MHz | Frequency<br>2562.5 MHz |
| 7/ 15   | QPSK       | 1          | 0            | 22.29                   | 22.06                 | 22.12                   |
|         |            | 1          | 37           | 22.23                   | 22.00                 | 22.22                   |
|         |            | 1          | 74           | 22.40                   | 22.13                 | 22.39                   |
|         |            | 36         | 0            | 21.18                   | 20.87                 | 21.09                   |
|         |            | 36         | 19           | 21.13                   | 20.88                 | 21.18                   |
|         |            | 36         | 39           | 21.28                   | 20.95                 | 21.27                   |
|         |            | 75         | 0            | 21.07                   | 20.94                 | 21.10                   |
|         | 16QAM      | 1          | 0            | 21.37                   | 21.04                 | 21.36                   |
|         |            | 1          | 37           | 21.33                   | 21.20                 | 21.36                   |
|         |            | 1          | 74           | 21.51                   | 21.24                 | 21.50                   |
|         |            | 36         | 0            | 20.29                   | 19.98                 | 20.20                   |
|         |            | 36         | 19           | 20.26                   | 20.01                 | 20.31                   |
|         |            | 36         | 39           | 20.40                   | 20.17                 | 20.23                   |
|         |            | 75         | 0            | 20.30                   | 20.03                 | 20.25                   |
|         | 64QAM      | 1          | 0            | 20.68                   | 20.37                 | 20.63                   |
|         |            | 1          | 37           | 20.68                   | 20.37                 | 20.59                   |
|         |            | 1          | 74           | 20.62                   | 20.37                 | 20.67                   |
|         |            | 36         | 0            | 19.33                   | 19.10                 | 19.16                   |
|         |            | 36         | 19           | 19.25                   | 19.02                 | 19.24                   |
|         |            | 36         | 39           | 19.46                   | 19.27                 | 19.39                   |
|         |            | 75         | 0            | 19.34                   | 19.10                 | 19.23                   |

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH 20850          | Mid CH 21100          | High CH 21350         |
|---------|------------|------------|--------------|-----------------------|-----------------------|-----------------------|
|         |            |            |              | Frequency<br>2510 MHz | Frequency<br>2535 MHz | Frequency<br>2560 MHz |
| 7/ 20   | QPSK       | 1          | 0            | 22.19                 | <b>22.43</b>          | 22.41                 |
|         |            | 1          | 50           | 22.08                 | 22.30                 | 22.28                 |
|         |            | 1          | 99           | 22.08                 | 22.30                 | 22.20                 |
|         |            | 50         | 0            | 21.03                 | 21.30                 | 21.28                 |
|         |            | 50         | 25           | 20.96                 | 21.19                 | 21.20                 |
|         |            | 50         | 50           | 20.94                 | 21.20                 | 21.14                 |
|         |            | 100        | 0            | 20.98                 | 21.15                 | 21.15                 |
|         | 16QAM      | 1          | 0            | 21.12                 | 21.39                 | 21.37                 |
|         |            | 1          | 50           | 21.24                 | 21.41                 | 21.41                 |
|         |            | 1          | 99           | 21.30                 | 21.54                 | 21.52                 |
|         |            | 50         | 0            | 20.05                 | 20.31                 | 20.25                 |
|         |            | 50         | 25           | 20.09                 | 20.32                 | 20.33                 |
|         |            | 50         | 50           | 20.19                 | 20.41                 | 20.31                 |
|         |            | 100        | 0            | 20.11                 | 20.35                 | 20.31                 |
|         | 64QAM      | 1          | 0            | 20.43                 | 20.69                 | 20.65                 |
|         |            | 1          | 50           | 20.44                 | 20.70                 | 20.64                 |
|         |            | 1          | 99           | 20.45                 | 20.68                 | 20.69                 |
|         |            | 50         | 0            | 19.12                 | 19.34                 | 19.24                 |
|         |            | 50         | 25           | 19.10                 | 19.32                 | 19.30                 |
|         |            | 50         | 50           | 19.28                 | 19.48                 | 19.43                 |
|         |            | 100        | 0            | 19.18                 | 19.36                 | 19.24                 |

**LTE Band 38**

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH 37775            | Mid CH 38000          | High CH 38225          |
|---------|------------|------------|--------------|-------------------------|-----------------------|------------------------|
|         |            |            |              | Frequency<br>2572.5 MHz | Frequency<br>2595 MHz | Frequency<br>2617.5MHz |
| 38/ 5   | QPSK       | 1          | 0            | 22.25                   | 22.08                 | 22.22                  |
|         |            | 1          | 12           | 22.21                   | 22.04                 | 22.09                  |
|         |            | 1          | 24           | 22.16                   | 22.10                 | 22.15                  |
|         |            | 12         | 0            | 21.35                   | 21.22                 | 21.23                  |
|         |            | 12         | 6            | 21.22                   | 21.14                 | 21.16                  |
|         |            | 12         | 13           | 21.32                   | 21.20                 | 21.30                  |
|         |            | 25         | 0            | 21.23                   | 21.13                 | 21.15                  |
|         | 16QAM      | 1          | 0            | 21.61                   | 21.42                 | 21.57                  |
|         |            | 1          | 12           | 21.80                   | 21.65                 | 21.73                  |
|         |            | 1          | 24           | 21.57                   | 21.54                 | 21.52                  |
|         |            | 12         | 0            | 20.43                   | 20.28                 | 20.41                  |
|         |            | 12         | 6            | 20.43                   | 20.35                 | 20.39                  |
|         |            | 12         | 13           | 20.38                   | 20.26                 | 20.36                  |
|         |            | 25         | 0            | 20.45                   | 20.35                 | 20.36                  |
|         | 64QAM      | 1          | 0            | 19.97                   | 19.91                 | 19.99                  |
|         |            | 1          | 12           | 19.98                   | 19.85                 | 19.79                  |
|         |            | 1          | 24           | 19.83                   | 19.76                 | 19.80                  |
|         |            | 12         | 0            | 19.59                   | 19.42                 | 19.46                  |
|         |            | 12         | 6            | 19.42                   | 19.34                 | 19.30                  |
|         |            | 12         | 13           | 19.36                   | 19.31                 | 19.27                  |
|         |            | 25         | 0            | 19.48                   | 19.34                 | 19.42                  |

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH 37800          | Mid CH 38000          | High CH 38200         |
|---------|------------|------------|--------------|-----------------------|-----------------------|-----------------------|
|         |            |            |              | Frequency<br>2575 MHz | Frequency<br>2595 MHz | Frequency<br>2615 MHz |
| 38/ 10  | QPSK       | 1          | 0            | 22.26                 | 22.11                 | 22.22                 |
|         |            | 1          | 24           | 22.19                 | 22.07                 | 22.09                 |
|         |            | 1          | 49           | 22.17                 | 22.06                 | 22.18                 |
|         |            | 25         | 0            | 21.31                 | 21.25                 | 21.19                 |
|         |            | 25         | 12           | 21.26                 | 21.08                 | 21.19                 |
|         |            | 25         | 25           | 21.31                 | 21.19                 | 21.24                 |
|         |            | 50         | 0            | 21.25                 | 21.13                 | 21.14                 |
|         | 16QAM      | 1          | 0            | 21.56                 | 21.45                 | 21.57                 |
|         |            | 1          | 24           | 21.82                 | 21.64                 | 21.76                 |
|         |            | 1          | 49           | 21.56                 | 21.51                 | 21.56                 |
|         |            | 25         | 0            | 20.42                 | 20.31                 | 20.37                 |
|         |            | 25         | 12           | 20.41                 | 20.41                 | 20.42                 |
|         |            | 25         | 25           | 20.41                 | 20.26                 | 20.30                 |
|         |            | 50         | 0            | 20.45                 | 20.36                 | 20.40                 |
|         | 64QAM      | 1          | 0            | 20.01                 | 19.87                 | 19.93                 |
|         |            | 1          | 24           | 19.96                 | 19.88                 | 19.84                 |
|         |            | 1          | 49           | 19.83                 | 19.76                 | 19.80                 |
|         |            | 25         | 0            | 19.56                 | 19.42                 | 19.52                 |
|         |            | 25         | 12           | 19.40                 | 19.34                 | 19.28                 |
|         |            | 25         | 25           | 19.42                 | 19.24                 | 19.27                 |
|         |            | 50         | 0            | 19.49                 | 19.37                 | 19.41                 |

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH 37825            | Mid CH 38000          | High CH 38175          |
|---------|------------|------------|--------------|-------------------------|-----------------------|------------------------|
|         |            |            |              | Frequency<br>2577.5 MHz | Frequency<br>2595 MHz | Frequency<br>2612.5MHz |
| 38/ 15  | QPSK       | 1          | 0            | 22.27                   | 22.10                 | 22.21                  |
|         |            | 1          | 37           | 22.23                   | 22.02                 | 22.09                  |
|         |            | 1          | 74           | 22.18                   | 22.03                 | 22.18                  |
|         |            | 36         | 0            | 21.38                   | 21.25                 | 21.16                  |
|         |            | 36         | 19           | 21.21                   | 21.08                 | 21.15                  |
|         |            | 36         | 39           | 21.36                   | 21.19                 | 21.30                  |
|         |            | 75         | 0            | 21.29                   | 21.08                 | 21.15                  |
|         | 16QAM      | 1          | 0            | 21.57                   | 21.42                 | 21.57                  |
|         |            | 1          | 37           | 21.86                   | 21.63                 | 21.80                  |
|         |            | 1          | 74           | 21.55                   | 21.52                 | 21.53                  |
|         |            | 36         | 0            | 20.48                   | 20.25                 | 20.42                  |
|         |            | 36         | 19           | 20.41                   | 20.38                 | 20.39                  |
|         |            | 36         | 39           | 20.42                   | 20.25                 | 20.36                  |
|         |            | 75         | 0            | 20.51                   | 20.30                 | 20.37                  |
|         | 64QAM      | 1          | 0            | 19.99                   | 19.84                 | 19.99                  |
|         |            | 1          | 37           | 20.01                   | 19.88                 | 19.79                  |
|         |            | 1          | 74           | 19.86                   | 19.69                 | 19.76                  |
|         |            | 36         | 0            | 19.62                   | 19.41                 | 19.52                  |
|         |            | 36         | 19           | 19.47                   | 19.34                 | 19.25                  |
|         |            | 36         | 39           | 19.43                   | 19.30                 | 19.21                  |
|         |            | 75         | 0            | 19.53                   | 19.32                 | 19.39                  |

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH 37850          | Mid CH 38000          | High CH 38150         |
|---------|------------|------------|--------------|-----------------------|-----------------------|-----------------------|
|         |            |            |              | Frequency<br>2580 MHz | Frequency<br>2595 MHz | Frequency<br>2610 MHz |
| 38/ 20  | QPSK       | 1          | 0            | 22.30                 | 22.16                 | 22.23                 |
|         |            | 1          | 50           | 22.25                 | 22.09                 | 22.14                 |
|         |            | 1          | 99           | 22.24                 | 22.11                 | 22.20                 |
|         |            | 50         | 0            | 21.39                 | 21.27                 | 21.24                 |
|         |            | 50         | 25           | 21.28                 | 21.16                 | 21.21                 |
|         |            | 50         | 50           | 21.39                 | 21.25                 | 21.32                 |
|         |            | 100        | 0            | 21.31                 | 21.15                 | 21.20                 |
|         | 16QAM      | 1          | 0            | 21.63                 | 21.50                 | 21.59                 |
|         |            | 1          | 50           | 21.88                 | 21.71                 | 21.81                 |
|         |            | 1          | 99           | 21.63                 | 21.56                 | 21.58                 |
|         |            | 50         | 0            | 20.50                 | 20.33                 | 20.43                 |
|         |            | 50         | 25           | 20.49                 | 20.42                 | 20.44                 |
|         |            | 50         | 50           | 20.45                 | 20.31                 | 20.38                 |
|         |            | 100        | 0            | 20.53                 | 20.37                 | 20.42                 |
|         | 64QAM      | 1          | 0            | 20.05                 | 19.92                 | 20.01                 |
|         |            | 1          | 50           | 20.02                 | 19.90                 | 19.87                 |
|         |            | 1          | 99           | 19.91                 | 19.77                 | 19.82                 |
|         |            | 50         | 0            | 19.63                 | 19.47                 | 19.54                 |
|         |            | 50         | 25           | 19.48                 | 19.36                 | 19.33                 |
|         |            | 50         | 50           | 19.44                 | 19.32                 | 19.29                 |
|         |            | 100        | 0            | 19.55                 | 19.39                 | 19.44                 |



**BUREAU  
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**Test Report No.: W7L-P22080003RF06**

LTE Band 41

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH<br>(39675)        | Mid CH<br>(40620)      | High CH<br>(41565)       |
|---------|------------|------------|--------------|--------------------------|------------------------|--------------------------|
|         |            |            |              | Frequency<br>(2498.5)MHz | Frequency<br>(2593)MHz | Frequency<br>(2687.5)MHz |
| 41/ 5   | QPSK       | 1          | 0            | 22.49                    | 22.33                  | 22.32                    |
|         |            | 1          | 12           | 22.31                    | 22.18                  | 22.15                    |
|         |            | 1          | 24           | 22.23                    | 22.18                  | 22.06                    |
|         |            | 12         | 0            | 21.40                    | 21.35                  | 21.35                    |
|         |            | 12         | 6            | 21.43                    | 21.30                  | 21.20                    |
|         |            | 12         | 13           | 21.40                    | 21.37                  | 21.36                    |
|         |            | 25         | 0            | 21.32                    | 21.19                  | 21.19                    |
|         | 16QAM      | 1          | 0            | 21.52                    | 21.47                  | 21.46                    |
|         |            | 1          | 12           | 21.69                    | 21.63                  | 21.57                    |
|         |            | 1          | 24           | 21.75                    | 21.71                  | 21.61                    |
|         |            | 12         | 0            | 20.31                    | 20.22                  | 20.30                    |
|         |            | 12         | 6            | 20.26                    | 20.23                  | 20.19                    |
|         |            | 12         | 13           | 20.38                    | 20.28                  | 20.32                    |
|         |            | 25         | 0            | 20.39                    | 20.27                  | 20.27                    |
|         | 64QAM      | 1          | 0            | 20.11                    | 20.02                  | 20.06                    |
|         |            | 1          | 12           | 20.05                    | 19.95                  | 19.86                    |
|         |            | 1          | 24           | 20.03                    | 20.07                  | 20.07                    |
|         |            | 12         | 0            | 19.44                    | 19.26                  | 19.29                    |
|         |            | 12         | 6            | 19.20                    | 19.18                  | 19.17                    |
|         |            | 12         | 13           | 19.43                    | 19.25                  | 19.29                    |
|         |            | 25         | 0            | 19.34                    | 19.29                  | 19.21                    |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (39700)      | Mid CH (40620)      | High CH (41540)     |
|---------|------------|---------|-----------|---------------------|---------------------|---------------------|
|         |            |         |           | Frequency (2501)MHz | Frequency (2593)MHz | Frequency (2685)MHz |
| 41/ 10  | QPSK       | 1       | 0         | 22.42               | 22.29               | 22.26               |
|         |            | 1       | 24        | 22.35               | 22.23               | 22.23               |
|         |            | 1       | 49        | 22.19               | 22.11               | 22.08               |
|         |            | 25      | 0         | 21.46               | 21.41               | 21.35               |
|         |            | 25      | 12        | 21.49               | 21.27               | 21.26               |
|         |            | 25      | 25        | 21.40               | 21.42               | 21.38               |
|         |            | 50      | 0         | 21.42               | 21.14               | 21.19               |
|         | 16QAM      | 1       | 0         | 21.52               | 21.39               | 21.46               |
|         |            | 1       | 24        | 21.77               | 21.69               | 21.59               |
|         |            | 1       | 49        | 21.80               | 21.65               | 21.62               |
|         |            | 25      | 0         | 20.35               | 20.32               | 20.20               |
|         |            | 25      | 12        | 20.36               | 20.29               | 20.17               |
|         |            | 25      | 25        | 20.33               | 20.28               | 20.27               |
|         |            | 50      | 0         | 20.49               | 20.32               | 20.21               |
|         | 64QAM      | 1       | 0         | 20.06               | 20.02               | 20.09               |
|         |            | 1       | 24        | 20.13               | 20.00               | 19.85               |
|         |            | 1       | 49        | 20.15               | 20.01               | 20.02               |
|         |            | 25      | 0         | 19.43               | 19.32               | 19.24               |
|         |            | 25      | 12        | 19.34               | 19.09               | 19.20               |
|         |            | 25      | 25        | 19.39               | 19.23               | 19.25               |
|         |            | 50      | 0         | 19.44               | 19.31               | 19.22               |

| Band/BW | Modulation | RB<br>Size | RB<br>Offset | Low CH<br>(39725)        | Mid CH<br>(40620)      | High CH<br>(41515)       |
|---------|------------|------------|--------------|--------------------------|------------------------|--------------------------|
|         |            |            |              | Frequency<br>(2503.5)MHz | Frequency<br>(2593)MHz | Frequency<br>(2682.5)MHz |
| 41/ 15  | QPSK       | 1          | 0            | 22.51                    | 22.26                  | 22.27                    |
|         |            | 1          | 37           | 22.28                    | 22.17                  | 22.23                    |
|         |            | 1          | 74           | 22.25                    | 22.11                  | 22.06                    |
|         |            | 36         | 0            | 21.38                    | 21.42                  | 21.40                    |
|         |            | 36         | 19           | 21.48                    | 21.24                  | 21.20                    |
|         |            | 36         | 39           | 21.36                    | 21.42                  | 21.40                    |
|         |            | 75         | 0            | 21.38                    | 21.23                  | 21.13                    |
|         | 16QAM      | 1          | 0            | 21.61                    | 21.44                  | 21.49                    |
|         |            | 1          | 37           | 21.71                    | 21.66                  | 21.55                    |
|         |            | 1          | 74           | 21.75                    | 21.70                  | 21.67                    |
|         |            | 36         | 0            | 20.43                    | 20.30                  | 20.28                    |
|         |            | 36         | 19           | 20.26                    | 20.24                  | 20.22                    |
|         |            | 36         | 39           | 20.45                    | 20.28                  | 20.29                    |
|         |            | 75         | 0            | 20.47                    | 20.20                  | 20.26                    |
|         | 64QAM      | 1          | 0            | 20.15                    | 20.06                  | 20.04                    |
|         |            | 1          | 37           | 20.12                    | 19.92                  | 19.85                    |
|         |            | 1          | 74           | 20.11                    | 20.08                  | 20.07                    |
|         |            | 36         | 0            | 19.46                    | 19.23                  | 19.29                    |
|         |            | 36         | 19           | 19.27                    | 19.18                  | 19.20                    |
|         |            | 36         | 39           | 19.39                    | 19.26                  | 19.28                    |
|         |            | 75         | 0            | 19.42                    | 19.33                  | 19.27                    |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (39750)      | Mid CH (40620)      | High CH (41490)     |
|---------|------------|---------|-----------|---------------------|---------------------|---------------------|
|         |            |         |           | Frequency (2506)MHz | Frequency (2593)MHz | Frequency (2680)MHz |
| 41/ 20  | QPSK       | 1       | 0         | 22.31               | 22.38               | 22.09               |
|         |            | 1       | 50        | 22.31               | 22.46               | 22.20               |
|         |            | 1       | 99        | 22.54               | 22.57               | 22.33               |
|         |            | 50      | 0         | 21.46               | 21.58               | 21.35               |
|         |            | 50      | 25        | 21.46               | 21.54               | 21.28               |
|         |            | 50      | 50        | 21.44               | 21.56               | 21.43               |
|         |            | 100     | 0         | 21.42               | 21.40               | 21.21               |
|         |            | 100     | 50        | 21.42               | 21.40               | 21.21               |
|         | 16QAM      | 1       | 0         | 21.58               | 21.69               | 21.51               |
|         |            | 1       | 50        | 21.77               | 21.87               | 21.61               |
|         |            | 1       | 99        | 21.77               | 21.90               | 21.70               |
|         |            | 50      | 0         | 20.41               | 20.41               | 20.26               |
|         |            | 50      | 25        | 20.33               | 20.46               | 20.23               |
|         |            | 50      | 50        | 20.41               | 20.51               | 20.34               |
|         |            | 100     | 0         | 20.45               | 20.55               | 20.26               |
|         |            | 100     | 50        | 20.45               | 20.55               | 20.26               |
|         | 64QAM      | 1       | 0         | 20.18               | 20.27               | 20.08               |
|         |            | 1       | 50        | 20.11               | 20.20               | 19.97               |
|         |            | 1       | 99        | 20.15               | 20.19               | 20.02               |
|         |            | 50      | 0         | 19.49               | 19.59               | 19.33               |
|         |            | 50      | 25        | 19.28               | 19.41               | 19.23               |
|         |            | 50      | 50        | 19.45               | 19.52               | 19.27               |
|         |            | 100     | 0         | 19.40               | 19.45               | 19.26               |
|         |            | 100     | 50        | 19.40               | 19.45               | 19.26               |



**BUREAU  
VERITAS**

Test Report No.: W7L-P22080003RF06

LTE Band CA\_41C

| CA_41C                              |         |            |         |           |         |           |               |                      |
|-------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 5MHz+20MHz (25RB+100RB) |         |            |         |           |         |           |               |                      |
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39683                               | 39800   | QPSK       | 1       | 24        | 0       | 0         | 1             | 21.93                |
|                                     |         | 16QAM      | 1       | 24        | 0       | 0         | 1             | 20.83                |
|                                     |         | 64QAM      | 1       | 24        | 0       | 0         | 1             | 19.94                |
| 40528                               | 40645   | QPSK       | 1       | 24        | 0       | 0         | 1             | 21.43                |
|                                     |         | 16QAM      | 1       | 24        | 0       | 0         | 1             | 20.73                |
|                                     |         | 64QAM      | 1       | 24        | 0       | 0         | 1             | 19.57                |
| 41373                               | 41490   | QPSK       | 1       | 24        | 0       | 0         | 1             | 21.86                |
|                                     |         | 16QAM      | 1       | 24        | 0       | 0         | 1             | 20.99                |
|                                     |         | 64QAM      | 1       | 24        | 0       | 0         | 1             | 19.87                |
| Combination 10MHz+15MHz (50RB+75RB) |         |            |         |           |         |           |               |                      |
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39703                               | 39823   | QPSK       | 1       | 49        | 0       | 0         | 1             | 22.02                |
|                                     |         | 16QAM      | 1       | 49        | 0       | 0         | 1             | 20.92                |
|                                     |         | 64QAM      | 1       | 49        | 0       | 0         | 1             | 19.97                |
| 40549                               | 40669   | QPSK       | 1       | 49        | 0       | 0         | 1             | 21.52                |
|                                     |         | 16QAM      | 1       | 49        | 0       | 0         | 1             | 20.77                |
|                                     |         | 64QAM      | 1       | 49        | 0       | 0         | 1             | 19.72                |
| 41395                               | 41515   | QPSK       | 1       | 49        | 0       | 0         | 1             | 21.99                |
|                                     |         | 16QAM      | 1       | 49        | 0       | 0         | 1             | 21.09                |
|                                     |         | 64QAM      | 1       | 49        | 0       | 0         | 1             | 19.92                |

| CA_41C                               |         |            |         |           |         |           |               |                      |
|--------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 10MHz+20MHz (50RB+100RB) |         |            |         |           |         |           |               |                      |
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39705                                | 39849   | QPSK       | 1       | 49        | 0       | 0         | 1             | 22.11                |
|                                      |         | 16QAM      | 1       | 49        | 0       | 0         | 1             | 21.18                |
|                                      |         | 64QAM      | 1       | 49        | 0       | 0         | 1             | 20.01                |
| 40526                                | 40670   | QPSK       | 1       | 49        | 0       | 0         | 1             | 21.73                |
|                                      |         | 16QAM      | 1       | 49        | 0       | 0         | 1             | 20.88                |
|                                      |         | 64QAM      | 1       | 49        | 0       | 0         | 1             | 19.82                |
| 41346                                | 41490   | QPSK       | 1       | 49        | 0       | 0         | 1             | 22.10                |
|                                      |         | 16QAM      | 1       | 49        | 0       | 0         | 1             | 20.95                |
|                                      |         | 64QAM      | 1       | 49        | 0       | 0         | 1             | 20.02                |
| Combination 15MHz+10MHz (75RB+50RB)  |         |            |         |           |         |           |               |                      |
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39725                                | 39845   | QPSK       | 1       | 74        | 0       | 0         | 1             | 22.03                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 21.09                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 20.00                |
| 40571                                | 40691   | QPSK       | 1       | 74        | 0       | 0         | 1             | 21.57                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 20.76                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 19.75                |
| 41417                                | 41537   | QPSK       | 1       | 74        | 0       | 0         | 1             | 22.03                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 20.95                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 19.98                |

| CA_41C                               |         |            |         |           |         |           |               |                      |
|--------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 15MHz+15MHz (75RB+75RB)  |         |            |         |           |         |           |               |                      |
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39725                                | 39875   | QPSK       | 1       | 74        | 0       | 0         | 1             | 22.13                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 21.12                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 20.04                |
| 40545                                | 40695   | QPSK       | 1       | 74        | 0       | 0         | 1             | 21.65                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 20.85                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 19.77                |
| 41365                                | 41515   | QPSK       | 1       | 74        | 0       | 0         | 1             | 22.03                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 20.97                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 19.99                |
| Combination 15MHz+20MHz (75RB+100RB) |         |            |         |           |         |           |               |                      |
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39728                                | 39899   | QPSK       | 1       | 74        | 0       | 0         | 1             | 22.24                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 21.24                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 20.07                |
| 40523                                | 40694   | QPSK       | 1       | 74        | 0       | 0         | 1             | 21.82                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 20.94                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 19.93                |
| 41319                                | 41490   | QPSK       | 1       | 74        | 0       | 0         | 1             | 22.14                |
|                                      |         | 16QAM      | 1       | 74        | 0       | 0         | 1             | 21.03                |
|                                      |         | 64QAM      | 1       | 74        | 0       | 0         | 1             | 20.02                |

| CA_41C                               |         |            |         |           |         |           |               |                      |
|--------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 20MHz+10MHz (100RB+50RB) |         |            |         |           |         |           |               |                      |
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                                | 39894   | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.19                |
|                                      |         | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.21                |
|                                      |         | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.11                |
| 40571                                | 40715   | QPSK       | 1       | 99        | 0       | 0         | 1             | 21.77                |
|                                      |         | 16QAM      | 1       | 99        | 0       | 0         | 1             | 20.92                |
|                                      |         | 64QAM      | 1       | 99        | 0       | 0         | 1             | 19.88                |
| 41391                                | 41535   | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.11                |
|                                      |         | 16QAM      | 1       | 99        | 0       | 0         | 1             | 20.97                |
|                                      |         | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.00                |
| Combination 20MHz+15MHz (100RB+75RB) |         |            |         |           |         |           |               |                      |
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                                | 39921   | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.34                |
|                                      |         | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.59                |
|                                      |         | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.18                |
| 40546                                | 40717   | QPSK       | 1       | 99        | 0       | 0         | 1             | 21.94                |
|                                      |         | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.29                |
|                                      |         | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.03                |
| 41341                                | 41512   | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.17                |
|                                      |         | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.11                |
|                                      |         | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.08                |

| CA_41C                                |             |            |         |           |         |           |               |                      |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.56                |
|                                       |             | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.83                |
|                                       |             | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.21                |
| 40521                                 | 40719       | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.26                |
|                                       |             | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.74                |
|                                       |             | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.22                |
| 41292                                 | 41490       | QPSK       | 1       | 99        | 0       | 0         | 1             | 22.54                |
|                                       |             | 16QAM      | 1       | 99        | 0       | 0         | 1             | 21.81                |
|                                       |             | 64QAM      | 1       | 99        | 0       | 0         | 1             | 20.10                |

**EIRP**

**LTE BAND 7**

**CHANNEL BANDWIDTH: 5MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20775   | 2502.5          | 22.39                 | -0.85                               | 21.54      | 142.56    | 2         |
| 21100   | 2535.0          | 22.14                 | -0.85                               | 21.29      | 134.59    | 2         |
| 21425   | 2567.5          | 22.4                  | -0.85                               | 21.55      | 142.89    | 2         |

**CHANNEL BANDWIDTH: 5MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20775   | 2502.5          | 21.47                 | -0.85                               | 20.62      | 115.35    | 2         |
| 21100   | 2535.0          | 21.25                 | -0.85                               | 20.4       | 109.65    | 2         |
| 21425   | 2567.5          | 21.5                  | -0.85                               | 20.65      | 116.14    | 2         |

**CHANNEL BANDWIDTH: 5MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20775   | 2502.5          | 20.65                 | -0.85                               | 19.8       | 95.5      | 2         |
| 21100   | 2535            | 20.43                 | -0.85                               | 19.58      | 90.78     | 2         |
| 21425   | 2567.5          | 20.62                 | -0.85                               | 19.77      | 94.84     | 2         |

**CHANNEL BANDWIDTH: 10MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20800   | 2505.0          | 22.35                 | -0.85                               | 21.5       | 141.25    | 2         |
| 21100   | 2535.0          | 22.15                 | -0.85                               | 21.3       | 134.9     | 2         |
| 21400   | 2565.0          | 22.36                 | -0.85                               | 21.51      | 141.58    | 2         |

**CHANNEL BANDWIDTH: 10MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20800   | 2505.0          | 21.49                 | -0.85                               | 20.64      | 115.88    | 2         |
| 21100   | 2535.0          | 21.22                 | -0.85                               | 20.37      | 108.89    | 2         |
| 21400   | 2565.0          | 21.46                 | -0.85                               | 20.61      | 115.08    | 2         |

**CHANNEL BANDWIDTH: 10MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20800   | 2505            | 20.67                 | -0.85                               | 19.82      | 95.94     | 2         |
| 21100   | 2535            | 20.39                 | -0.85                               | 19.54      | 89.95     | 2         |
| 21400   | 2565            | 20.64                 | -0.85                               | 19.79      | 95.28     | 2         |

**CHANNEL BANDWIDTH: 15MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20825   | 2507.5          | 22.4                  | -0.85                               | 21.55      | 142.89    | 2         |
| 21100   | 2535.0          | 22.13                 | -0.85                               | 21.28      | 134.28    | 2         |
| 21375   | 2562.5          | 22.39                 | -0.85                               | 21.54      | 142.56    | 2         |

**CHANNEL BANDWIDTH: 15MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20825   | 2507.5          | 21.51                 | -0.85                               | 20.66      | 116.41    | 2         |
| 21100   | 2535.0          | 21.24                 | -0.85                               | 20.39      | 109.4     | 2         |
| 21375   | 2562.5          | 21.5                  | -0.85                               | 20.65      | 116.14    | 2         |

**CHANNEL BANDWIDTH: 15MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20825   | 2507.5          | 20.68                 | -0.85                               | 19.83      | 96.16     | 2         |
| 21100   | 2535            | 20.37                 | -0.85                               | 19.52      | 89.54     | 2         |
| 21375   | 2562.5          | 20.67                 | -0.85                               | 19.82      | 95.94     | 2         |



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Test Report No.: W7L-P22080003RF06

**CHANNEL BANDWIDTH: 20MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20850   | 2510.0          | 22.19                 | -0.85                               | 21.34      | 136.14    | 2         |
| 21100   | 2535.0          | 22.43                 | -0.85                               | 21.58      | 143.88    | 2         |
| 21350   | 2560.0          | 22.41                 | -0.85                               | 21.56      | 143.22    | 2         |

**CHANNEL BANDWIDTH: 20MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20850   | 2510.0          | 21.3                  | -0.85                               | 20.45      | 110.92    | 2         |
| 21100   | 2535.0          | 21.54                 | -0.85                               | 20.69      | 117.22    | 2         |
| 21350   | 2560.0          | 21.52                 | -0.85                               | 20.67      | 116.68    | 2         |

**CHANNEL BANDWIDTH: 20MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 20850   | 2510            | 20.45                 | -0.85                               | 19.6       | 91.2      | 2         |
| 21100   | 2535            | 20.7                  | -0.85                               | 19.85      | 96.61     | 2         |
| 21350   | 2560            | 20.69                 | -0.85                               | 19.84      | 96.38     | 2         |



**BUREAU  
VERITAS**

Test Report No.: W7L-P22080003RF06

**LTE BAND 38**

**CHANNEL BANDWIDTH: 5MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37775   | 2572.5          | 22.25                 | -0.85                               | 21.4       | 138.04    | 2         |
| 38000   | 2595.0          | 22.1                  | -0.85                               | 21.25      | 133.35    | 2         |
| 38225   | 2617.5          | 22.22                 | -0.85                               | 21.37      | 137.09    | 2         |

**CHANNEL BANDWIDTH: 5MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37775   | 2572.5          | 21.8                  | -0.85                               | 20.95      | 124.45    | 2         |
| 38000   | 2595.0          | 21.65                 | -0.85                               | 20.8       | 120.23    | 2         |
| 38225   | 2617.5          | 21.73                 | -0.85                               | 20.88      | 122.46    | 2         |

**CHANNEL BANDWIDTH: 5MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37775   | 2572.5          | 19.98                 | -0.85                               | 19.13      | 81.85     | 2         |
| 38000   | 2595            | 19.91                 | -0.85                               | 19.06      | 80.54     | 2         |
| 38225   | 2617.5          | 19.99                 | -0.85                               | 19.14      | 82.04     | 2         |

**CHANNEL BANDWIDTH: 10MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37800   | 2575.0          | 22.26                 | -0.85                               | 21.41      | 138.36    | 2         |
| 38000   | 2595.0          | 22.11                 | -0.85                               | 21.26      | 133.66    | 2         |
| 38200   | 2615.0          | 22.22                 | -0.85                               | 21.37      | 137.09    | 2         |

**CHANNEL BANDWIDTH: 10MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37800   | 2575.0          | 21.82                 | -0.85                               | 20.97      | 125.03    | 2         |
| 38000   | 2595.0          | 21.64                 | -0.85                               | 20.79      | 119.95    | 2         |
| 38200   | 2615.0          | 21.76                 | -0.85                               | 20.91      | 123.31    | 2         |

**CHANNEL BANDWIDTH: 10MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37800   | 2575            | 20.01                 | -0.85                               | 19.16      | 82.41     | 2         |
| 38000   | 2595            | 19.88                 | -0.85                               | 19.03      | 79.98     | 2         |
| 38200   | 2615            | 19.93                 | -0.85                               | 19.08      | 80.91     | 2         |

**CHANNEL BANDWIDTH: 15MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37825   | 2577.5          | 22.27                 | -0.85                               | 21.42      | 138.68    | 2         |
| 38000   | 2595.0          | 22.1                  | -0.85                               | 21.25      | 133.35    | 2         |
| 38175   | 2612.5          | 22.21                 | -0.85                               | 21.36      | 136.77    | 2         |

**CHANNEL BANDWIDTH: 15MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37825   | 2577.5          | 21.86                 | -0.85                               | 21.01      | 126.18    | 2         |
| 38000   | 2595.0          | 21.63                 | -0.85                               | 20.78      | 119.67    | 2         |
| 38175   | 2612.5          | 21.8                  | -0.85                               | 20.95      | 124.45    | 2         |

**CHANNEL BANDWIDTH: 15MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37825   | 2577.5          | 20.01                 | -0.85                               | 19.16      | 82.41     | 2         |
| 38000   | 2595            | 19.88                 | -0.85                               | 19.03      | 79.98     | 2         |
| 38175   | 2612.5          | 19.99                 | -0.85                               | 19.14      | 82.04     | 2         |

**CHANNEL BANDWIDTH: 20MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37850   | 2580.0          | 22.3                  | -0.85                               | 21.45      | 139.64    | 2         |
| 38000   | 2595.0          | 22.16                 | -0.85                               | 21.31      | 135.21    | 2         |
| 38150   | 2610.0          | 22.23                 | -0.85                               | 21.38      | 137.4     | 2         |

**CHANNEL BANDWIDTH: 20MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37850   | 2580.0          | 21.88                 | -0.85                               | 21.03      | 126.77    | 2         |
| 38000   | 2595.0          | 21.71                 | -0.85                               | 20.86      | 121.9     | 2         |
| 38150   | 2610.0          | 21.81                 | -0.85                               | 20.96      | 124.74    | 2         |

**CHANNEL BANDWIDTH: 20MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 37850   | 2580            | 20.05                 | -0.85                               | 19.2       | 83.18     | 2         |
| 38000   | 2595            | 19.92                 | -0.85                               | 19.07      | 80.72     | 2         |
| 38150   | 2610            | 20.01                 | -0.85                               | 19.16      | 82.41     | 2         |



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Test Report No.: W7L-P22080003RF06

# **LTE BAND 41**

## **CHANNEL BANDWIDTH: 5MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39675   | 2498.5          | 22.49                 | -0.85                               | 21.64      | 145.88    | 2         |
| 40620   | 2593.0          | 22.33                 | -0.85                               | 21.48      | 140.6     | 2         |
| 41565   | 2687.5          | 22.32                 | -0.85                               | 21.47      | 140.28    | 2         |

## **CHANNEL BANDWIDTH: 5MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39675   | 2498.5          | 21.75                 | -0.85                               | 20.9       | 123.03    | 2         |
| 40620   | 2593.0          | 21.71                 | -0.85                               | 20.86      | 121.9     | 2         |
| 41565   | 2687.5          | 21.61                 | -0.85                               | 20.76      | 119.12    | 2         |

## **CHANNEL BANDWIDTH: 5MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39675   | 2498.5          | 20.11                 | -0.85                               | 19.26      | 84.33     | 2         |
| 40620   | 2593.0          | 20.07                 | -0.85                               | 19.22      | 83.56     | 2         |
| 41565   | 2687.5          | 20.07                 | -0.85                               | 19.22      | 83.56     | 2         |

**CHANNEL BANDWIDTH: 10MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39700   | 2501.0          | 22.42                 | -0.85                               | 21.57      | 143.55    | 2         |
| 40620   | 2593.0          | 22.29                 | -0.85                               | 21.44      | 139.32    | 2         |
| 41540   | 2685.0          | 22.26                 | -0.85                               | 21.41      | 138.36    | 2         |

**CHANNEL BANDWIDTH: 10MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39700   | 2501.0          | 21.8                  | -0.85                               | 20.95      | 124.45    | 2         |
| 40620   | 2593.0          | 21.69                 | -0.85                               | 20.84      | 121.34    | 2         |
| 41540   | 2685.0          | 21.62                 | -0.85                               | 20.77      | 119.4     | 2         |

**CHANNEL BANDWIDTH: 10MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39700   | 2501.0          | 20.15                 | -0.85                               | 19.3       | 85.11     | 2         |
| 40620   | 2593.0          | 20.02                 | -0.85                               | 19.17      | 82.6      | 2         |
| 41540   | 2685.0          | 20.09                 | -0.85                               | 19.24      | 83.95     | 2         |

**CHANNEL BANDWIDTH: 15MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39725   | 2503.5          | 22.51                 | -0.85                               | 21.66      | 146.55    | 2         |
| 40620   | 2593.0          | 22.26                 | -0.85                               | 21.41      | 138.36    | 2         |
| 41515   | 2682.5          | 22.27                 | -0.85                               | 21.42      | 138.68    | 2         |

**CHANNEL BANDWIDTH: 15MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39725   | 2503.5          | 21.75                 | -0.85                               | 20.9       | 123.03    | 2         |
| 40620   | 2593.0          | 21.7                  | -0.85                               | 20.85      | 121.62    | 2         |
| 41515   | 2682.5          | 21.67                 | -0.85                               | 20.82      | 120.78    | 2         |

**CHANNEL BANDWIDTH: 15MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39725   | 2503.5          | 20.15                 | -0.85                               | 19.3       | 85.11     | 2         |
| 40620   | 2593.0          | 20.08                 | -0.85                               | 19.23      | 83.75     | 2         |
| 41515   | 2682.5          | 20.07                 | -0.85                               | 19.22      | 83.56     | 2         |

**CHANNEL BANDWIDTH: 20MHz QPSK**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39750   | 2506.0          | 22.54                 | -0.85                               | 21.69      | 147.57    | 2         |
| 40620   | 2593.0          | 22.57                 | -0.85                               | 21.72      | 148.59    | 2         |
| 41490   | 2680.0          | 22.33                 | -0.85                               | 21.48      | 140.6     | 2         |

**CHANNEL BANDWIDTH: 20MHz 16QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39750   | 2506.0          | 21.77                 | -0.85                               | 20.92      | 123.59    | 2         |
| 40620   | 2593.0          | 21.9                  | -0.85                               | 21.05      | 127.35    | 2         |
| 41490   | 2680.0          | 21.7                  | -0.85                               | 20.85      | 121.62    | 2         |

**CHANNEL BANDWIDTH: 20 MHz 64QAM**

| Channel | Frequency (MHz) | Conducted Power (dBm) | G <sub>T</sub> -L <sub>c</sub> (dB) | EIRP (dBm) | EIRP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|------------|-----------|-----------|
| 39750   | 2506.0          | 20.18                 | -0.85                               | 19.33      | 85.7      | 2         |
| 40620   | 2593.0          | 20.27                 | -0.85                               | 19.42      | 87.5      | 2         |
| 41490   | 2680.0          | 20.08                 | -0.85                               | 19.23      | 83.75     | 2         |



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**Test Report No.: W7L-P22080003RF06**

**LTE BAND CA\_41C**

| LTE BAND CA_41C 5M+20M QPSK  |                 |         |                 |                       |           |            |           |          |
|------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                      | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39683                        | 2499.3          | 39800   | 2511            | 21.93                 | -0.85     | 21.08      | 128.23    | 2        |
| 40528                        | 2583.8          | 40645   | 2595.5          | 21.43                 | -0.85     | 20.58      | 114.29    | 2        |
| 41373                        | 2668.3          | 41490   | 2680            | 21.86                 | -0.85     | 21.01      | 126.18    | 2        |
| LTE BAND CA_41C 5M+20M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                      | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39683                        | 2499.3          | 39800   | 2511            | 20.83                 | -0.85     | 19.98      | 99.54     | 2        |
| 40528                        | 2583.8          | 40645   | 2595.5          | 20.73                 | -0.85     | 19.88      | 97.27     | 2        |
| 41373                        | 2668.3          | 41490   | 2680            | 20.99                 | -0.85     | 20.14      | 103.28    | 2        |
| LTE BAND CA_41C 5M+20M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                      | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39683                        | 2499.3          | 39800   | 2511            | 19.94                 | -0.85     | 19.09      | 81.1      | 2        |
| 40528                        | 2583.8          | 40645   | 2595.5          | 19.57                 | -0.85     | 18.72      | 74.47     | 2        |
| 41373                        | 2668.3          | 41490   | 2680            | 19.87                 | -0.85     | 19.02      | 79.8      | 2        |

| LTE BAND CA_41C 20M+5M QPSK  |                 |         |                 |                       |           |            |           |          |
|------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                      | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                        | 2506            | 39867   | 2517.7          | 22                    | -0.85     | 21.15      | 130.32    | 2        |
| 40595                        | 2590.5          | 40712   | 2602.2          | 21.48                 | -0.85     | 20.63      | 115.61    | 2        |
| 41440                        | 2675            | 41557   | 2686.7          | 21.98                 | -0.85     | 21.13      | 129.72    | 2        |
| LTE BAND CA_41C 20M+5M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                      | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                        | 2506            | 39867   | 2517.7          | 20.89                 | -0.85     | 20.04      | 100.93    | 2        |
| 40595                        | 2590.5          | 40712   | 2602.2          | 20.76                 | -0.85     | 19.91      | 97.95     | 2        |
| 41440                        | 2675            | 41557   | 2686.7          | 21.03                 | -0.85     | 20.18      | 104.23    | 2        |
| LTE BAND CA_41C 20M+5M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                      | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                        | 2506            | 39867   | 2517.7          | 19.96                 | -0.85     | 19.11      | 81.47     | 2        |
| 40595                        | 2590.5          | 40712   | 2602.2          | 19.62                 | -0.85     | 18.77      | 75.34     | 2        |
| 41440                        | 2675            | 41557   | 2686.7          | 19.95                 | -0.85     | 19.1       | 81.28     | 2        |

| LTE BAND CA_41C 10M+15M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39703                         | 2501.3          | 39823   | 2513.3          | 22.02                 | -0.85     | 21.17      | 130.92    | 2        |
| 40549                         | 2585.9          | 40669   | 2597.9          | 21.52                 | -0.85     | 20.67      | 116.68    | 2        |
| 41395                         | 2670.5          | 41515   | 2682.5          | 21.99                 | -0.85     | 21.14      | 130.02    | 2        |
| LTE BAND CA_41C 10M+15M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39703                         | 2501.3          | 39823   | 2513.3          | 20.92                 | -0.85     | 20.07      | 101.62    | 2        |
| 40549                         | 2585.9          | 40669   | 2597.9          | 20.77                 | -0.85     | 19.92      | 98.17     | 2        |
| 41395                         | 2670.5          | 41515   | 2682.5          | 21.09                 | -0.85     | 20.24      | 105.68    | 2        |
| LTE BAND CA_41C 10M+15M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39703                         | 2501.3          | 39823   | 2513.3          | 19.97                 | -0.85     | 19.12      | 81.66     | 2        |
| 40549                         | 2585.9          | 40669   | 2597.9          | 19.72                 | -0.85     | 18.87      | 77.09     | 2        |
| 41395                         | 2670.5          | 41515   | 2682.5          | 19.92                 | -0.85     | 19.07      | 80.72     | 2        |

| LTE BAND CA_41C 15M+10M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39725                         | 2503.5          | 39845   | 2515.5          | 22.03                 | -0.85     | 21.18      | 131.22    | 2        |
| 40571                         | 2588.1          | 40691   | 2600.1          | 21.57                 | -0.85     | 20.72      | 118.03    | 2        |
| 41417                         | 2672.7          | 41537   | 2684.7          | 22.03                 | -0.85     | 21.18      | 131.22    | 2        |
| LTE BAND CA_41C 15M+10M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39725                         | 2503.5          | 39845   | 2515.5          | 21.09                 | -0.85     | 20.24      | 105.68    | 2        |
| 40571                         | 2588.1          | 40691   | 2600.1          | 20.76                 | -0.85     | 19.91      | 97.95     | 2        |
| 41417                         | 2672.7          | 41537   | 2684.7          | 20.95                 | -0.85     | 20.1       | 102.33    | 2        |
| LTE BAND CA_41C 15M+10M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39725                         | 2503.5          | 39845   | 2515.5          | 20                    | -0.85     | 19.15      | 82.22     | 2        |
| 40571                         | 2588.1          | 40691   | 2600.1          | 19.75                 | -0.85     | 18.9       | 77.62     | 2        |
| 41417                         | 2672.7          | 41537   | 2684.7          | 19.98                 | -0.85     | 19.13      | 81.85     | 2        |

| LTE BAND CA_41C 15M+15M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39725                         | 2503.5          | 39875   | 2518.5          | 22.13                 | -0.85     | 21.28      | 134.28    | 2        |
| 40545                         | 2585.5          | 40695   | 2600.5          | 21.65                 | -0.85     | 20.8       | 120.23    | 2        |
| 41365                         | 2667.5          | 41515   | 2682.5          | 22.03                 | -0.85     | 21.18      | 131.22    | 2        |
| LTE BAND CA_41C 15M+15M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39725                         | 2503.5          | 39875   | 2518.5          | 21.12                 | -0.85     | 20.27      | 106.41    | 2        |
| 40545                         | 2585.5          | 40695   | 2600.5          | 20.85                 | -0.85     | 20         | 100       | 2        |
| 41365                         | 2667.5          | 41515   | 2682.5          | 20.97                 | -0.85     | 20.12      | 102.8     | 2        |
| LTE BAND CA_41C 15M+15M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39725                         | 2503.5          | 39875   | 2518.5          | 20.04                 | -0.85     | 19.19      | 82.99     | 2        |
| 40545                         | 2585.5          | 40695   | 2600.5          | 19.77                 | -0.85     | 18.92      | 77.98     | 2        |
| 41365                         | 2667.5          | 41515   | 2682.5          | 19.99                 | -0.85     | 19.14      | 82.04     | 2        |

| LTE BAND CA_41C 10M+20M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39705                         | 2501.5          | 39849   | 2515.9          | 22.11                 | -0.85     | 21.26      | 133.66    | 2        |
| 40526                         | 2583.6          | 40670   | 2598            | 21.73                 | -0.85     | 20.88      | 122.46    | 2        |
| 41346                         | 2665.6          | 41490   | 2680            | 22.1                  | -0.85     | 21.25      | 133.35    | 2        |
| LTE BAND CA_41C 10M+20M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39705                         | 2501.5          | 39849   | 2515.9          | 21.18                 | -0.85     | 20.33      | 107.89    | 2        |
| 40526                         | 2583.6          | 40670   | 2598            | 20.88                 | -0.85     | 20.03      | 100.69    | 2        |
| 41346                         | 2665.6          | 41490   | 2680            | 20.95                 | -0.85     | 20.1       | 102.33    | 2        |
| LTE BAND CA_41C 10M+20M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39705                         | 2501.5          | 39849   | 2515.9          | 20.01                 | -0.85     | 19.16      | 82.41     | 2        |
| 40526                         | 2583.6          | 40670   | 2598            | 19.82                 | -0.85     | 18.97      | 78.89     | 2        |
| 41346                         | 2665.6          | 41490   | 2680            | 20.02                 | -0.85     | 19.17      | 82.6      | 2        |

| LTE BAND CA_41C 20M+10M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39894   | 2520.4          | 22.19                 | -0.85     | 21.34      | 136.14    | 2        |
| 40571                         | 2588.1          | 40715   | 2602.5          | 21.77                 | -0.85     | 20.92      | 123.59    | 2        |
| 41391                         | 2670.1          | 41535   | 2684.5          | 22.11                 | -0.85     | 21.26      | 133.66    | 2        |
| LTE BAND CA_41C 20M+10M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39894   | 2520.4          | 21.21                 | -0.85     | 20.36      | 108.64    | 2        |
| 40571                         | 2588.1          | 40715   | 2602.5          | 20.92                 | -0.85     | 20.07      | 101.62    | 2        |
| 41391                         | 2670.1          | 41535   | 2684.5          | 20.97                 | -0.85     | 20.12      | 102.8     | 2        |
| LTE BAND CA_41C 20M+10M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39894   | 2520.4          | 20.11                 | -0.85     | 19.26      | 84.33     | 2        |
| 40571                         | 2588.1          | 40715   | 2602.5          | 19.88                 | -0.85     | 19.03      | 79.98     | 2        |
| 41391                         | 2670.1          | 41535   | 2684.5          | 20                    | -0.85     | 19.15      | 82.22     | 2        |

| LTE BAND CA_41C 15M+20M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39728                         | 2503.8          | 39899   | 2520.9          | 22.24                 | -0.85     | 21.39      | 137.72    | 2        |
| 40523                         | 2583.3          | 40694   | 2600.4          | 21.82                 | -0.85     | 20.97      | 125.03    | 2        |
| 41319                         | 2662.9          | 41490   | 2680            | 22.14                 | -0.85     | 21.29      | 134.59    | 2        |
| LTE BAND CA_41C 15M+20M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39728                         | 2503.8          | 39899   | 2520.9          | 21.24                 | -0.85     | 20.39      | 109.4     | 2        |
| 40523                         | 2583.3          | 40694   | 2600.4          | 20.94                 | -0.85     | 20.09      | 102.09    | 2        |
| 41319                         | 2662.9          | 41490   | 2680            | 21.03                 | -0.85     | 20.18      | 104.23    | 2        |
| LTE BAND CA_41C 15M+20M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39728                         | 2503.8          | 39899   | 2520.9          | 20.07                 | -0.85     | 19.22      | 83.56     | 2        |
| 40523                         | 2583.3          | 40694   | 2600.4          | 19.93                 | -0.85     | 19.08      | 80.91     | 2        |
| 41319                         | 2662.9          | 41490   | 2680            | 20.02                 | -0.85     | 19.17      | 82.6      | 2        |

| LTE BAND CA_41C 20M+15M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39921   | 2523.1          | 22.34                 | -0.85     | 21.49      | 140.93    | 2        |
| 40546                         | 2585.6          | 40717   | 2602.7          | 21.94                 | -0.85     | 21.09      | 128.53    | 2        |
| 41341                         | 2665.1          | 41512   | 2682.2          | 22.17                 | -0.85     | 21.32      | 135.52    | 2        |
| LTE BAND CA_41C 20M+15M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39921   | 2523.1          | 21.59                 | -0.85     | 20.74      | 118.58    | 2        |
| 40546                         | 2585.6          | 40717   | 2602.7          | 21.29                 | -0.85     | 20.44      | 110.66    | 2        |
| 41341                         | 2665.1          | 41512   | 2682.2          | 21.11                 | -0.85     | 20.26      | 106.17    | 2        |
| LTE BAND CA_41C 20M+15M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39921   | 2523.1          | 20.18                 | -0.85     | 19.33      | 85.7      | 2        |
| 40546                         | 2585.6          | 40717   | 2602.7          | 20.03                 | -0.85     | 19.18      | 82.79     | 2        |
| 41341                         | 2665.1          | 41512   | 2682.2          | 20.08                 | -0.85     | 19.23      | 83.75     | 2        |

| LTE BAND CA_41C 20M+20M QPSK  |                 |         |                 |                       |           |            |           |          |
|-------------------------------|-----------------|---------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39948   | 2525.8          | 22.56                 | -0.85     | 21.71      | 148.25    | 2        |
| 40521                         | 2583.1          | 40719   | 2602.9          | 22.26                 | -0.85     | 21.41      | 138.36    | 2        |
| 41292                         | 2660.2          | 41490   | 2680            | 22.54                 | -0.85     | 21.69      | 147.57    | 2        |
| LTE BAND CA_41C 20M+20M 16QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39948   | 2525.8          | 21.83                 | -0.85     | 20.98      | 125.31    | 2        |
| 40521                         | 2583.1          | 40719   | 2602.9          | 21.74                 | -0.85     | 20.89      | 122.74    | 2        |
| 41292                         | 2660.2          | 41490   | 2680            | 21.81                 | -0.85     | 20.96      | 124.74    | 2        |
| LTE BAND CA_41C 20M+20M 64QAM |                 |         |                 |                       |           |            |           |          |
| Channel                       | Frequency (MHz) | Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 39750                         | 2506            | 39948   | 2525.8          | 20.21                 | -0.85     | 19.36      | 86.3      | 2        |
| 40521                         | 2583.1          | 40719   | 2602.9          | 20.22                 | -0.85     | 19.37      | 86.5      | 2        |
| 41292                         | 2660.2          | 41490   | 2680            | 20.1                  | -0.85     | 19.25      | 84.14     | 2        |

## 3.2 FREQUENCY STABILITY MEASUREMENT

### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

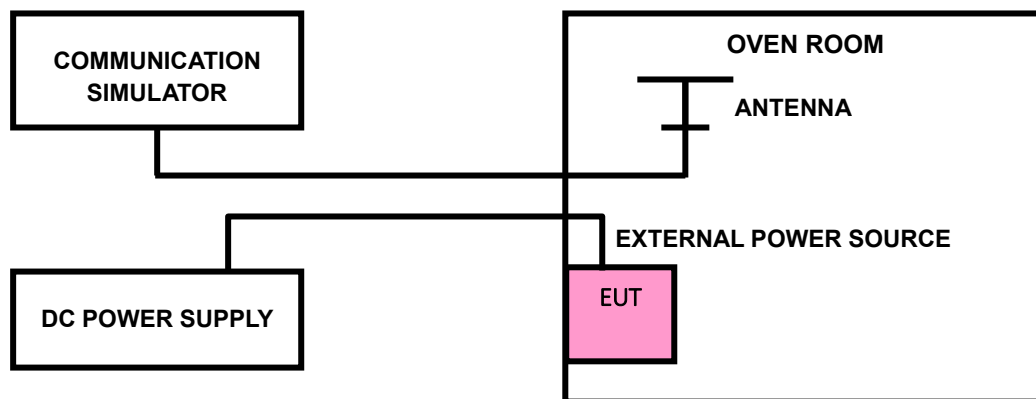
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

### 3.2.3 TEST SETUP



### 3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

#### LTE BAND CA\_41C

| LTE BAND CA_41C channel and Frequency List |                        |           |        |        |         |
|--------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW(MHz)                                    | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 5+20                                       | PCC                    | channel   | 39683  | 40528  | 41373   |
|                                            |                        | Frequency | 2499.3 | 2583.8 | 2668.3  |
|                                            | SCC                    | channel   | 39800  | 40645  | 41490   |
|                                            |                        | Frequency | 2511   | 2595.5 | 2680    |
| 10+15                                      | PCC                    | channel   | 39703  | 40549  | 41395   |
|                                            |                        | Frequency | 2501.3 | 2585.9 | 2670.5  |
|                                            | SCC                    | channel   | 39823  | 40669  | 41515   |
|                                            |                        | Frequency | 2513.3 | 2597.9 | 2682.5  |
| 10+20                                      | PCC                    | channel   | 39705  | 40526  | 41346   |
|                                            |                        | Frequency | 2501.5 | 2583.6 | 2665.6  |
|                                            | SCC                    | channel   | 39849  | 40670  | 41490   |
|                                            |                        | Frequency | 2515.9 | 2598.0 | 2680    |
| 15+10                                      | PCC                    | channel   | 39725  | 40571  | 41417   |
|                                            |                        | Frequency | 2503.5 | 2588.1 | 2672.7  |
|                                            | SCC                    | channel   | 39845  | 40691  | 41537   |
|                                            |                        | Frequency | 2515.5 | 2600.1 | 2684.7  |
| 15+15                                      | PCC                    | channel   | 39725  | 40545  | 41365   |
|                                            |                        | Frequency | 2503.5 | 2585.5 | 2667.5  |
|                                            | SCC                    | channel   | 39875  | 40695  | 41515   |
|                                            |                        | Frequency | 2518.5 | 2600.5 | 2682.5  |
| 15+20                                      | PCC                    | channel   | 39728  | 40523  | 41319   |
|                                            |                        | Frequency | 2503.8 | 2583.3 | 2662.9  |
|                                            | SCC                    | channel   | 39899  | 40694  | 41490   |
|                                            |                        | Frequency | 2520.9 | 2600.4 | 2680    |
| 20+5                                       | PCC                    | channel   | 39750  | 40595  | 41440   |
|                                            |                        | Frequency | 2506   | 2590.5 | 2675    |
|                                            | SCC                    | channel   | 39867  | 40712  | 41557   |
|                                            |                        | Frequency | 2517.7 | 2602.2 | 2686.7  |

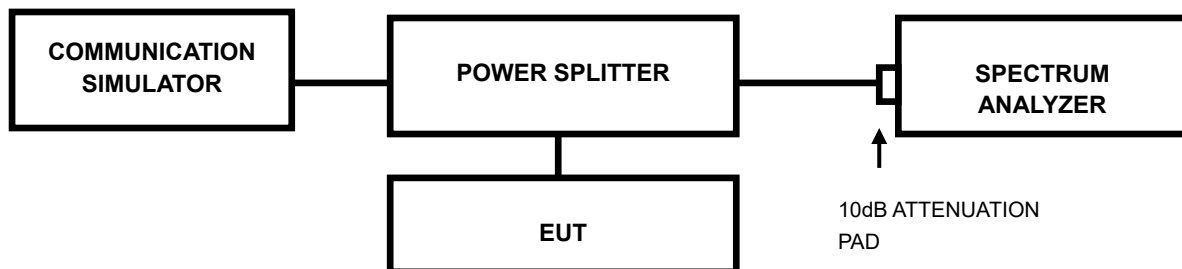
|       |     |           |        |        |        |
|-------|-----|-----------|--------|--------|--------|
| 20+10 | PCC | channel   | 39750  | 40571  | 41391  |
|       |     | Frecucncy | 2506   | 2588.1 | 2670.1 |
|       | SCC | channel   | 39894  | 40715  | 41535  |
|       |     | Frecucncy | 2520.4 | 2602.5 | 2684.5 |
| 20+15 | PCC | channel   | 39750  | 40546  | 41341  |
|       |     | Frecucncy | 2506   | 2585.6 | 2665.1 |
|       | SCC | channel   | 39921  | 40717  | 41512  |
|       |     | Frecucncy | 2523.1 | 2602.7 | 2682.2 |
| 20+20 | PCC | channel   | 39750  | 40521  | 41292  |
|       |     | Frecucncy | 2506   | 2583.1 | 2660.2 |
|       | SCC | channel   | 39948  | 40719  | 41490  |
|       |     | Frecucncy | 2525.8 | 2602.9 | 2680   |

### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.3.2 TEST SETUP



#### 3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



**Test Report No.: W7L-P22080003RF06**

### 3.3.4 TEST RESULTS

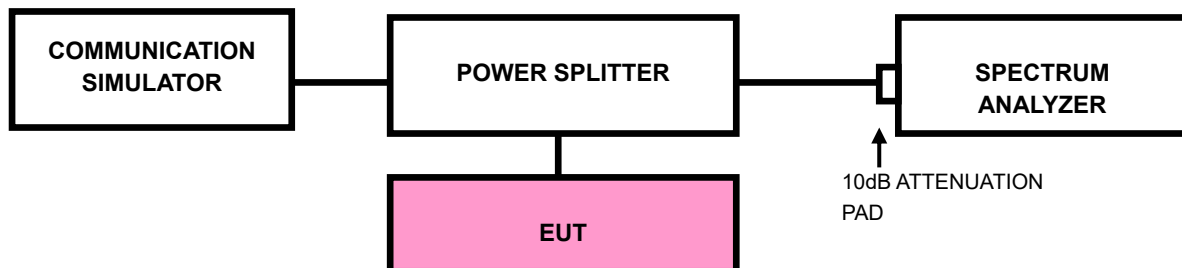
Please Refer to Appendix Of this test report.

### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

#### 3.4.2 TEST SETUP



#### 3.4.3 TEST PROCEDURES

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.  
RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).
- The center frequency of spectrum is the band edge frequency and span is 10MHz.  
RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).



**Test Report No.: W7L-P22080003RF06**

- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.  
RBW of the spectrum is  $\geq 1\% \cdot \text{EBW}$  kHz and VBW of the spectrum is  $3 \cdot \text{RBW}$  kHz.  
(LTE bandwidth 1.4M/3M/5M/10M/15M/20MHz).
- e. Record the max trace plot into the test report.



Test Report No.: W7L-P22080003RF06

#### 3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

### 3.5 CONDUCTED SPURIOUS EMISSIONS

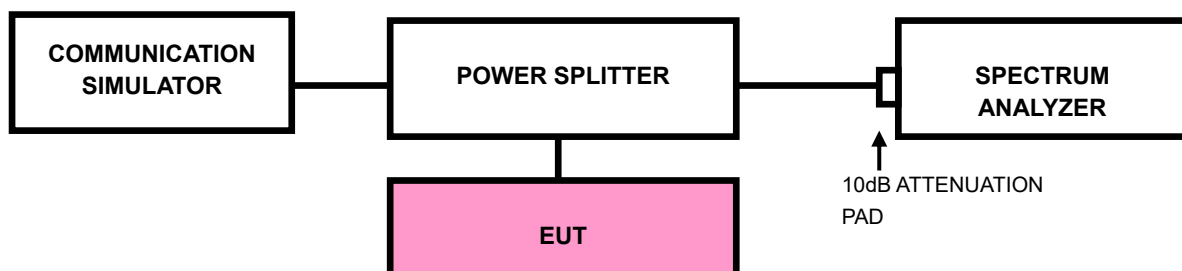
#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -25dBm.

#### 3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.5.3 TEST SETUP





**Test Report No.: W7L-P22080003RF06**

### 3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -25dBm.

#### 3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$ .

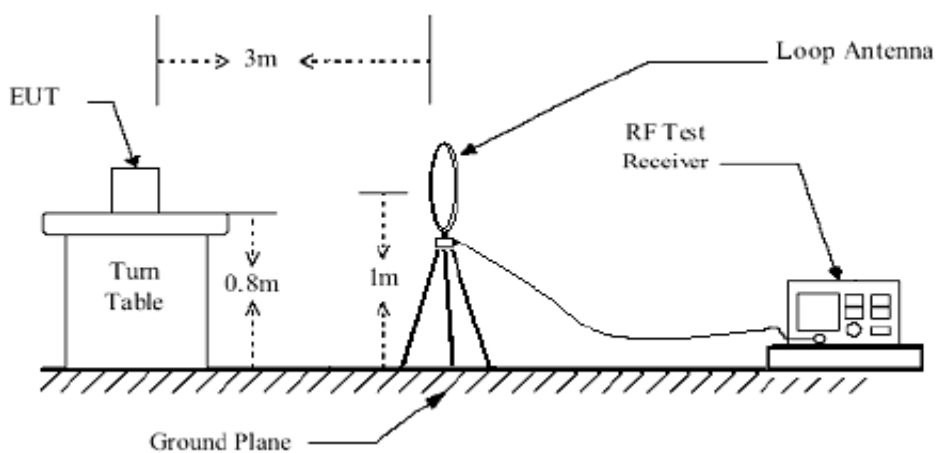
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

#### 3.6.3 DEVIATION FROM TEST STANDARD

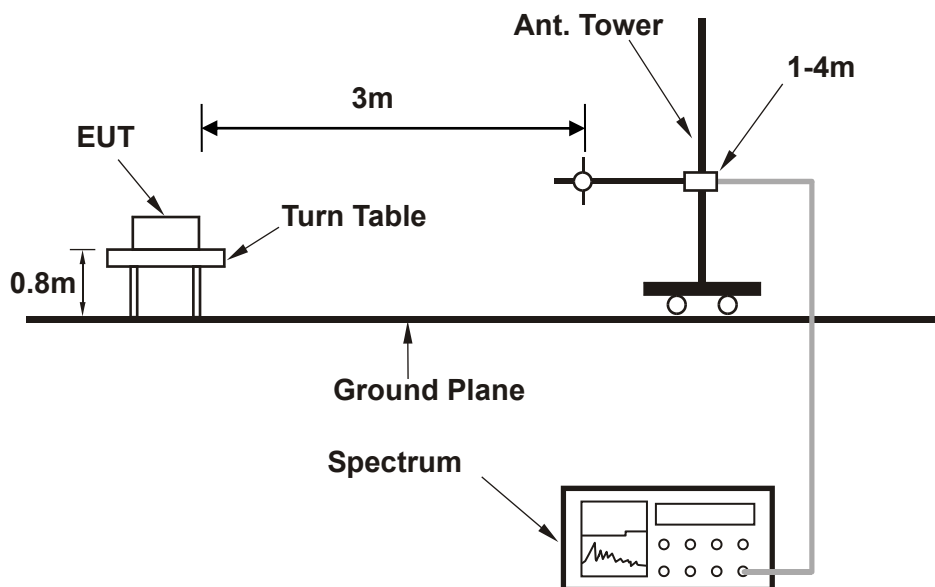
No deviation

### 3.6.4 TEST SETUP

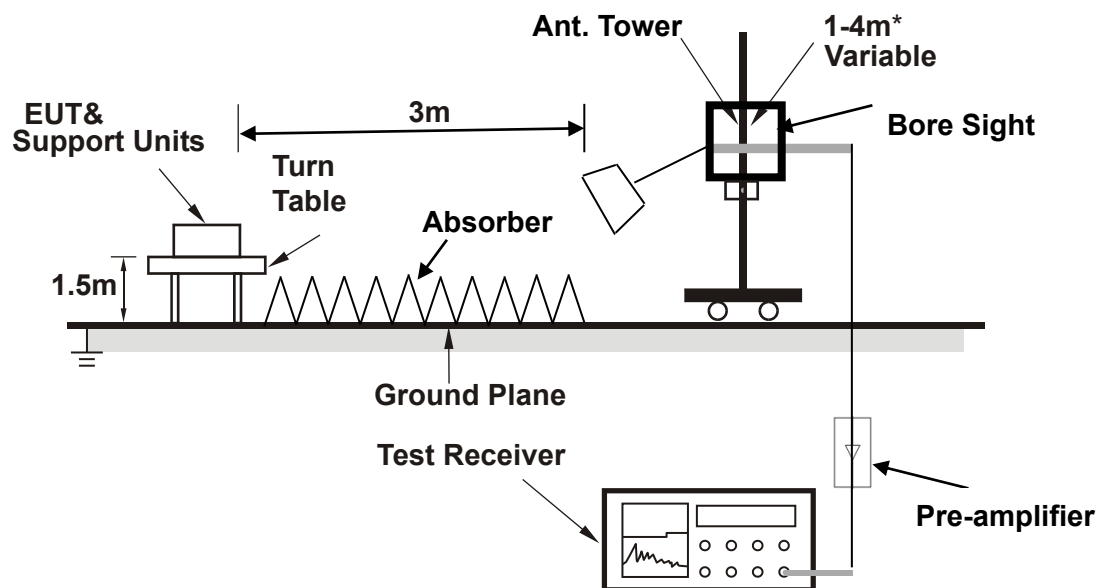
#### < Frequency Range below 30MHz >



#### < Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

#### BELOW 1GHz WORST-CASE DATA

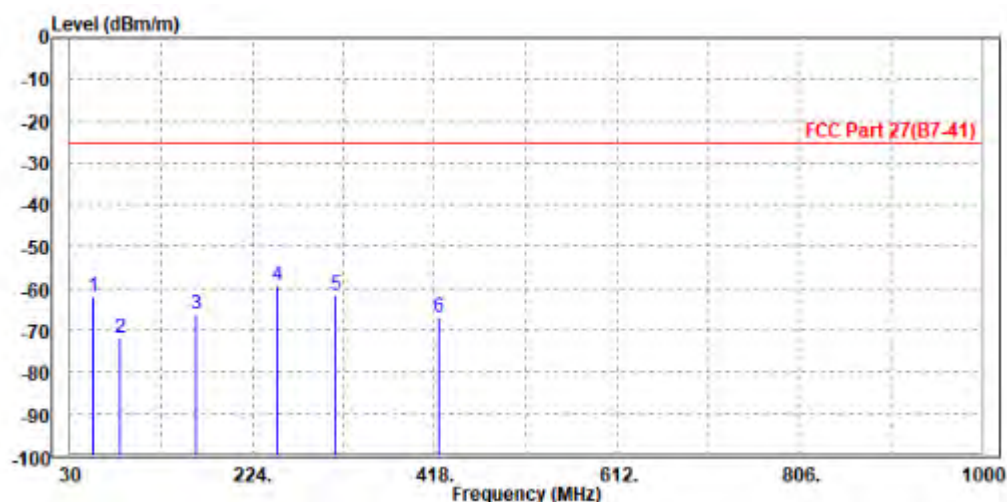
30 MHz – 1GHz data:

LTE Band 41

CHANNEL BANDWIDTH: 10MHz / QPSK

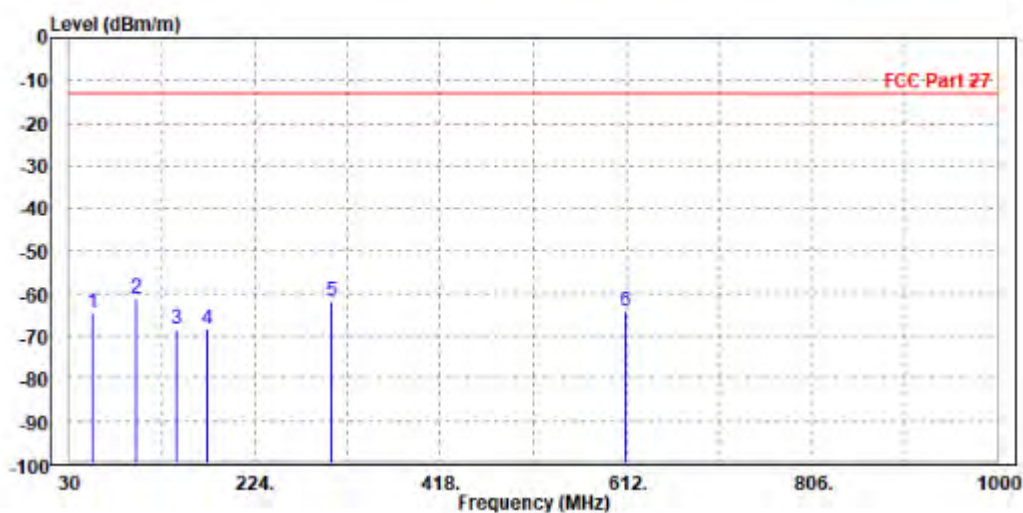
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 40620 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq    | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|---------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz     | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 55.220  | -62.06 | -44.16     | -25.00     | -37.06     | -17.90 | Peak   | Horizontal |
| 2    | 82.380  | -71.74 | -50.32     | -25.00     | -46.74     | -21.42 | Peak   | Horizontal |
| 3    | 164.830 | -66.19 | -50.07     | -25.00     | -41.19     | -16.12 | Peak   | Horizontal |
| 4 PP | 250.190 | -59.29 | -47.83     | -25.00     | -34.29     | -11.46 | Peak   | Horizontal |
| 5    | 313.240 | -61.58 | -49.44     | -25.00     | -36.58     | -12.14 | Peak   | Horizontal |
| 6    | 422.850 | -66.98 | -57.36     | -25.00     | -41.98     | -9.62  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 40620 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq    | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|---------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz     | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 41.640  | -63.99 | -38.99     | -25.00     | -38.99     | -25.00 | Peak   | Vertical  |
| 2 PP | 102.750 | -58.95 | -51.43     | -25.00     | -33.95     | -7.52  | Peak   | Vertical  |
| 3    | 138.640 | -67.65 | -54.55     | -25.00     | -42.65     | -13.10 | Peak   | Vertical  |
| 4    | 252.130 | -66.82 | -53.34     | -25.00     | -41.82     | -13.48 | Peak   | Vertical  |
| 5    | 311.300 | -66.09 | -55.48     | -25.00     | -41.09     | -10.61 | Peak   | Vertical  |
| 6    | 422.850 | -68.88 | -60.09     | -25.00     | -43.88     | -8.79  | Peak   | Vertical  |





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VERITAS**

Test Report No.: W7L-P22080003RF06

# **ABOVE 1GHz**

**Note:** For higher frequency, the emission is too low to be detected.

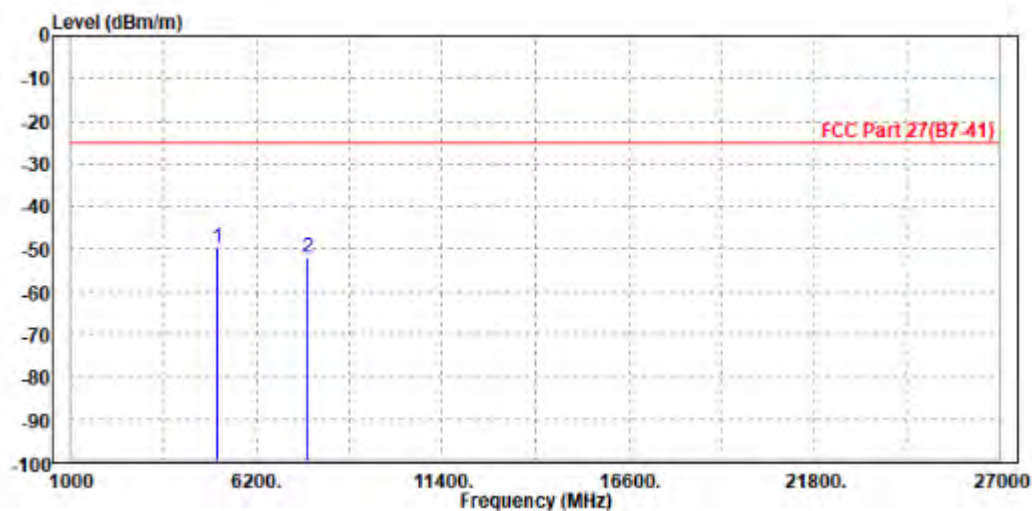
## **LTE Band 7**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

**CH 21100**

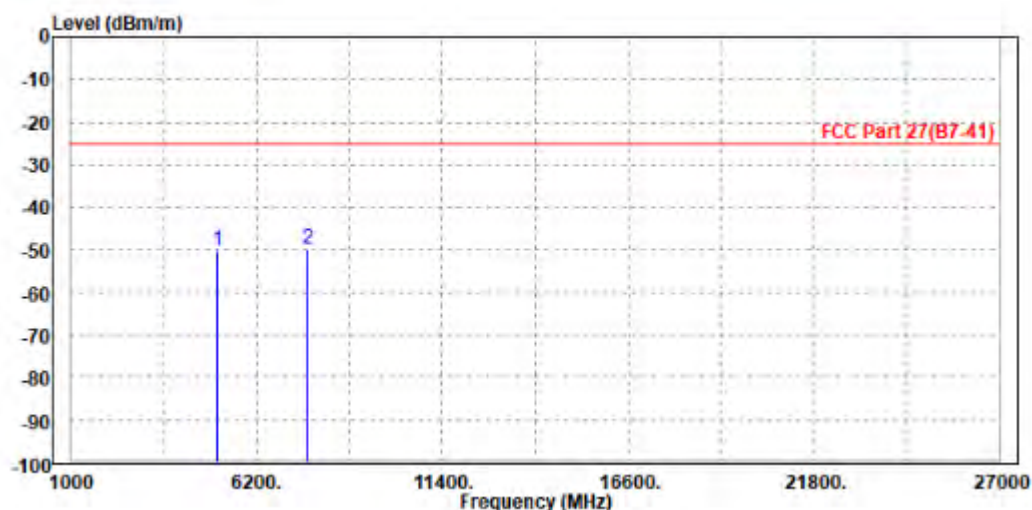
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|----|----------|--------|------------|------------|------------|--------|--------|------------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP | 5082.000 | -49.68 | -59.50     | -25.00     | -24.68     | 9.82   | Peak   | Horizontal |
| 2 |    | 7605.000 | -52.26 | -64.44     | -25.00     | -27.26     | 12.18  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

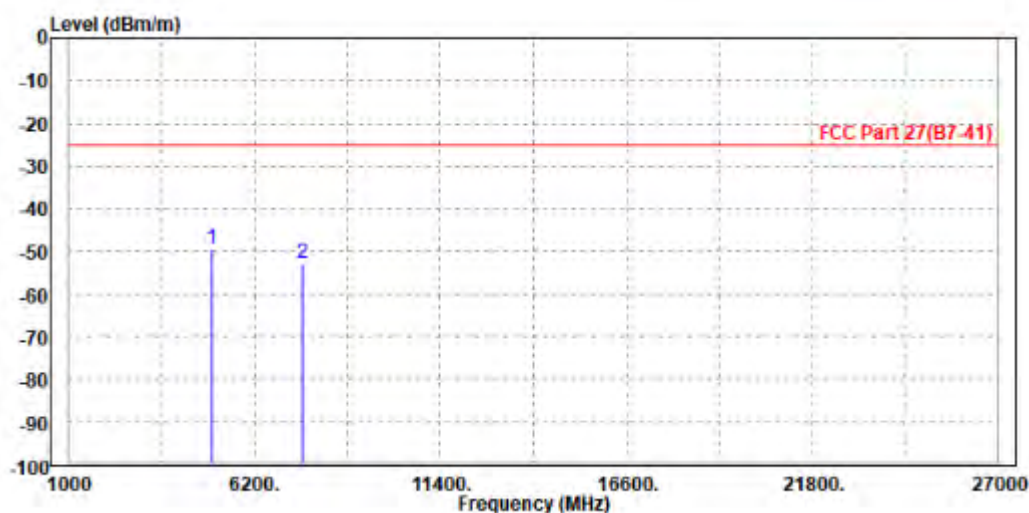
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5082.000 | -50.05 | -60.39     | -25.00     | -25.05     | 10.34  | Peak   | Vertical  |
| 2 PP | 7605.000 | -49.90 | -64.75     | -25.00     | -24.90     | 14.85  | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 10MHz / QPSK**  
**CH20800**

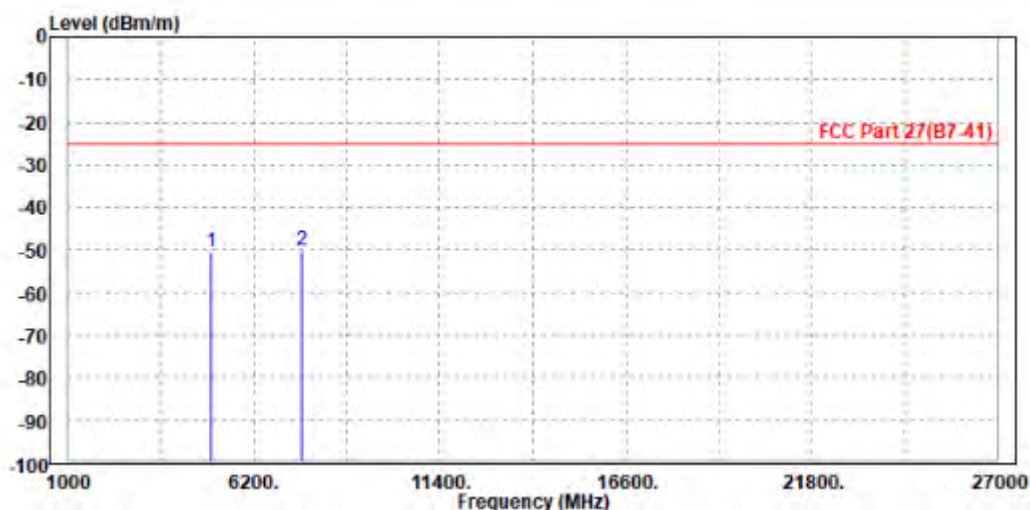
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20800 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP 5004.000 | -49.43 | -59.13     | -25.00     | -24.43     | 9.70   | Peak   | Horizontal |
| 2 | 7515.000    | -52.98 | -64.51     | -25.00     | -27.98     | 11.53  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20800 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5004.000 | -50.43 | -60.70     | -25.00     | -25.43     | 10.27  | Peak   | Vertical  |
| 2 PP | 7515.000 | -50.18 | -64.90     | -25.00     | -25.18     | 14.72  | Peak   | Vertical  |





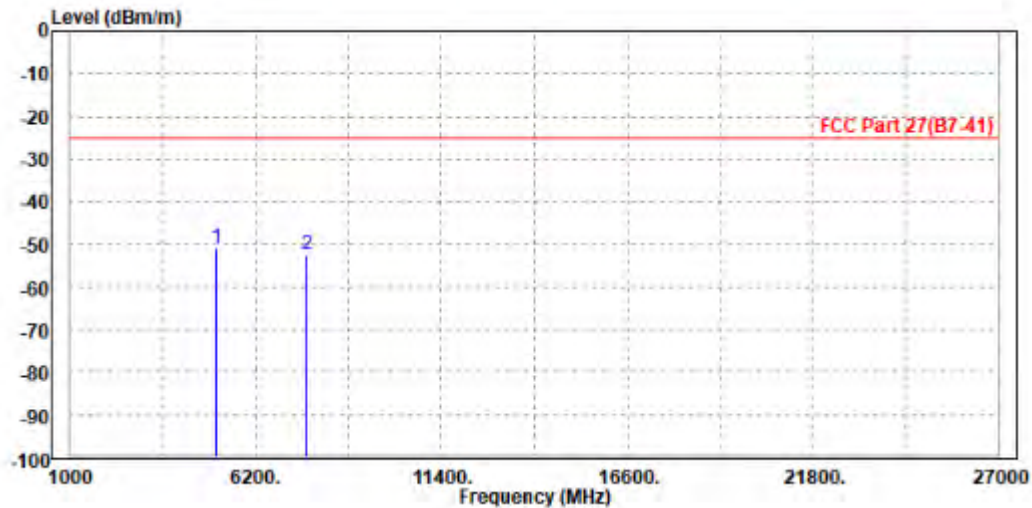
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VERITAS

Test Report No.: W7L-P22080003RF06

CH21100

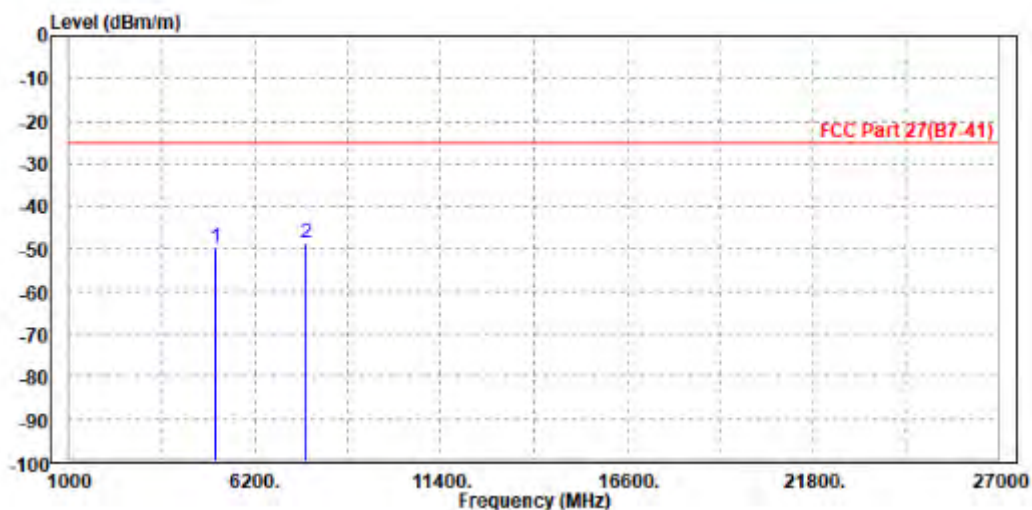
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP 5082.000 | -50.77 | -60.59     | -25.00     | -25.77     | 9.82   | Peak   | Horizontal |
| 2 | 7605.000    | -52.50 | -64.68     | -25.00     | -27.50     | 12.18  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5082.000 | -49.84 | -60.18     | -25.00     | -24.84     | 10.34  | Peak   | Vertical  |
| 2 PP | 7605.000 | -48.66 | -63.51     | -25.00     | -23.66     | 14.85  | Peak   | Vertical  |





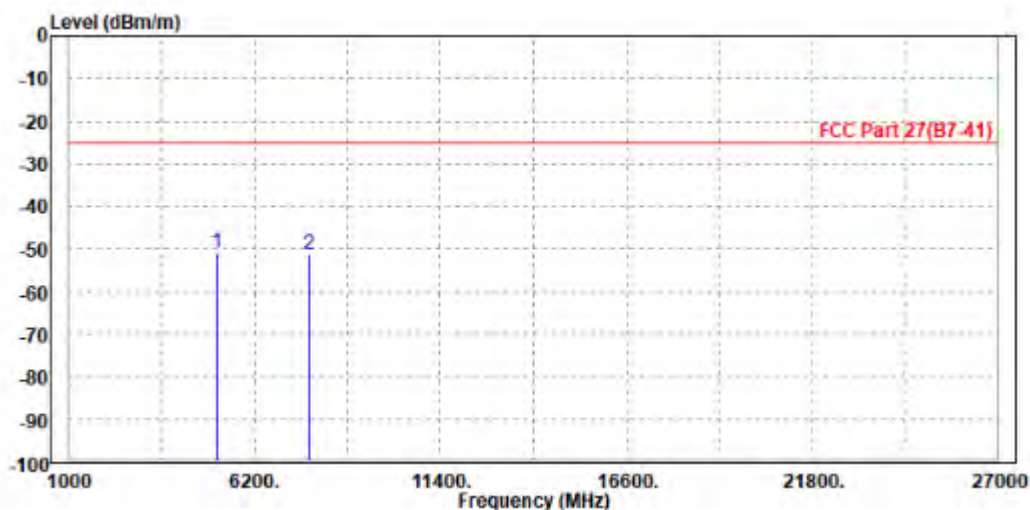
BUREAU  
VERITAS

Test Report No.: W7L-P22080003RF06

CH21400

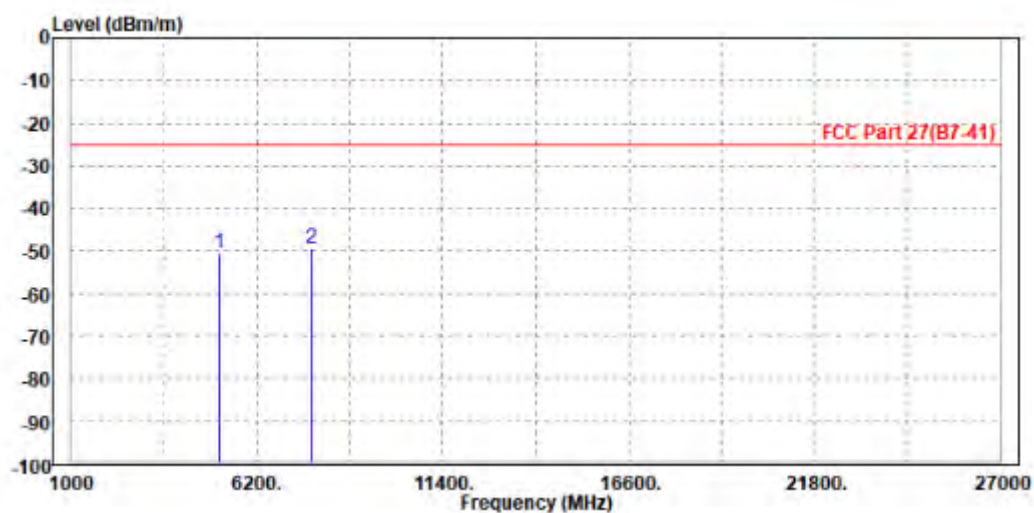
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21400 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|----|----------|--------|------------|------------|------------|--------|--------|------------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP | 5134.000 | -50.95 | -60.85     | -25.00     | -25.95     | 9.90   | Peak   | Horizontal |
| 2 |    | 7695.000 | -51.27 | -64.10     | -25.00     | -26.27     | 12.83  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 21400 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5134.000 | -50.39 | -60.78     | -25.00     | -25.39     | 10.39  | Peak   | Vertical  |
| 2 PP | 7695.000 | -49.47 | -64.46     | -25.00     | -24.47     | 14.99  | Peak   | Vertical  |





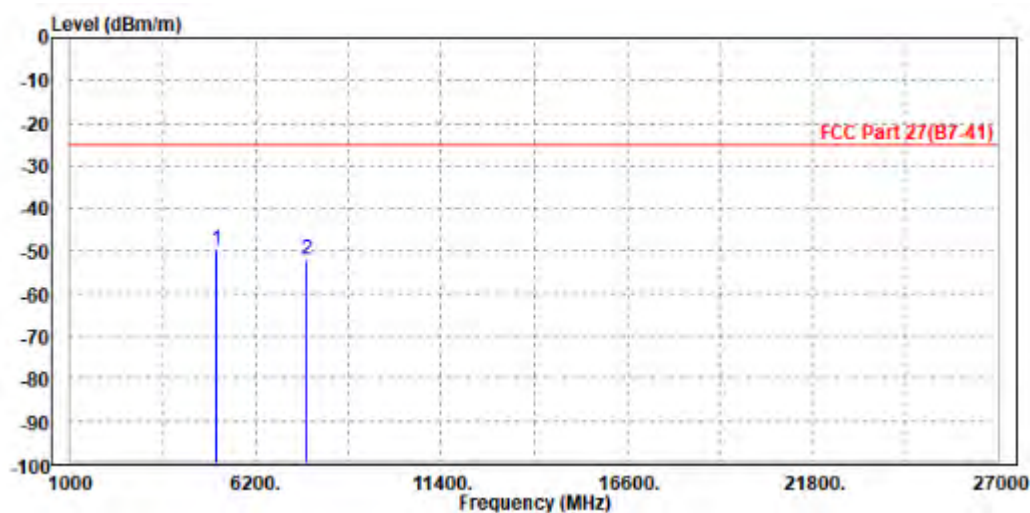
BUREAU  
VERITAS

Test Report No.: W7L-P22080003RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

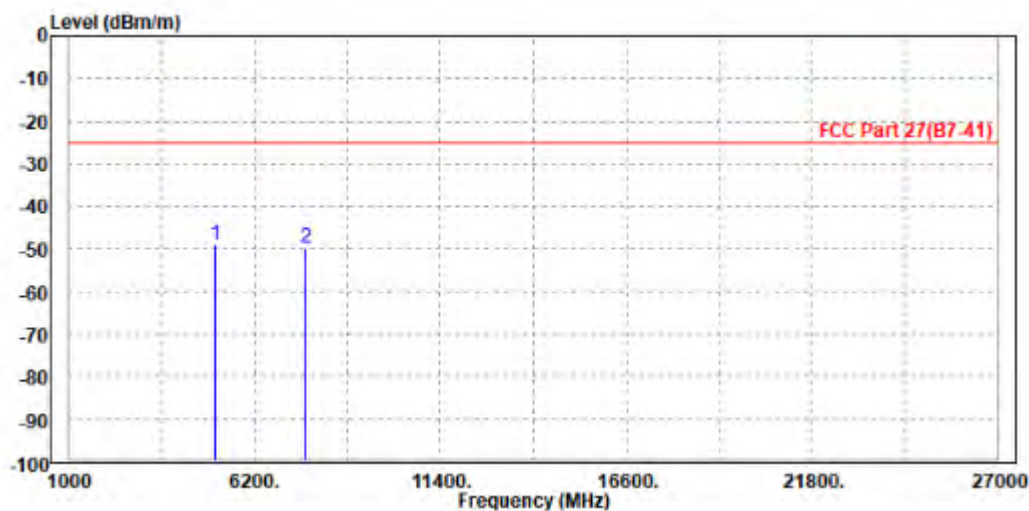
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5082.000 | -49.85 | -59.67     | -25.00     | -24.85     | 9.82   | Peak   | Horizontal |
| 2    | 7605.000 | -51.94 | -64.12     | -25.00     | -26.94     | 12.18  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 5082.000 | -49.11 | -59.45     | -25.00     | -24.11     | 10.34  | Peak   | Vertical  |
| 2    | 7605.000 | -49.81 | -64.66     | -25.00     | -24.81     | 14.85  | Peak   | Vertical  |





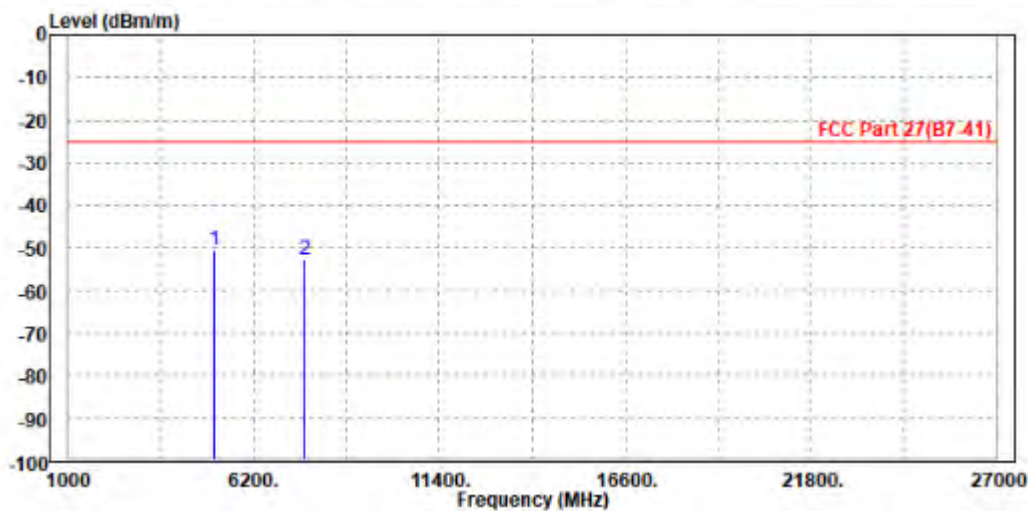
**BUREAU  
VERITAS**

Test Report No.: W7L-P22080003RF06

**CHANNEL BANDWIDTH: 20MHz / QPSK**

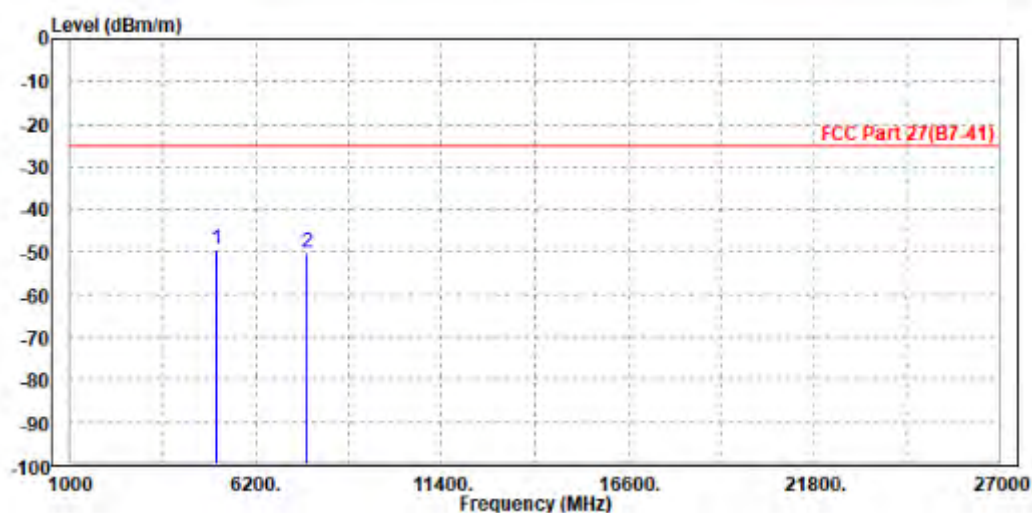
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5082.000 | -50.49 | -60.31     | -25.00     | -25.49     | 9.82   | Peak   | Horizontal |
| 2    | 7605.000 | -52.82 | -65.00     | -25.00     | -27.82     | 12.18  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 5082.000 | -49.61 | -59.95     | -25.00     | -24.61     | 10.34  | Peak   | Vertical  |
| 2    | 7605.000 | -50.36 | -65.21     | -25.00     | -25.36     | 14.85  | Peak   | Vertical  |





**BUREAU  
VERITAS**

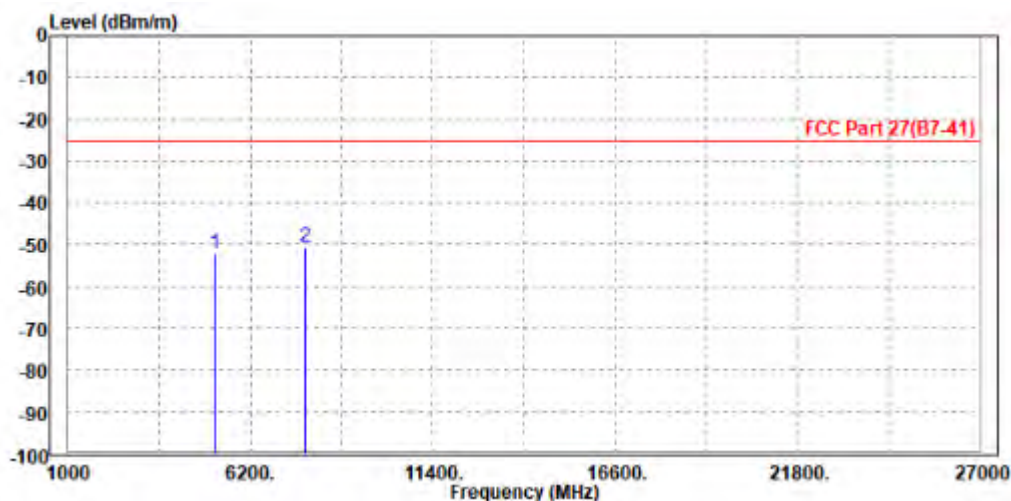
Test Report No.: W7L-P22080003RF06

**LTE BAND 41**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

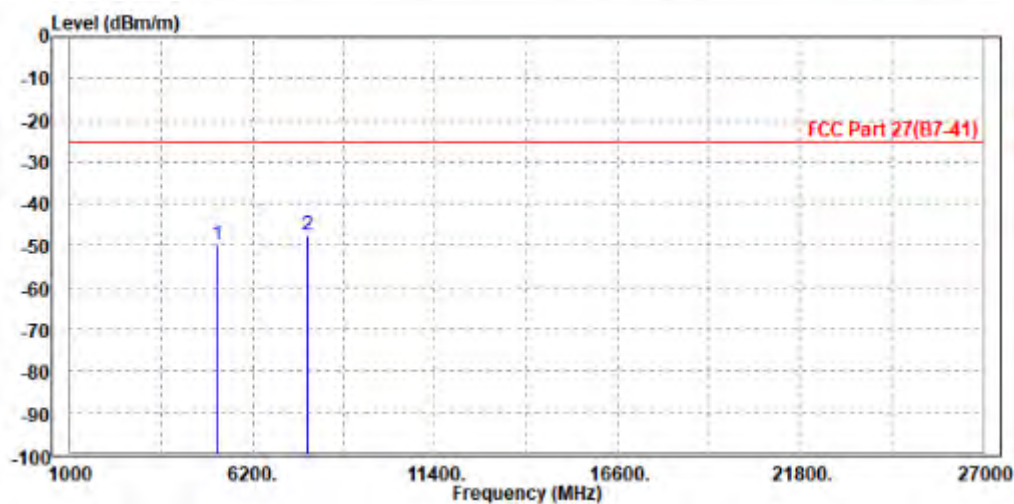
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -52.02 | -62.00     | -25.00     | -27.02     | 9.98   | Peak   | Horizontal |
| 2 PP | 7779.000 | -50.64 | -64.00     | -25.00     | -25.64     | 13.44  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -49.71 | -60.15     | -25.00     | -24.71     | 10.44  | Peak   | Vertical  |
| 2 PP | 7779.000 | -47.70 | -62.81     | -25.00     | -22.70     | 15.11  | Peak   | Vertical  |





BUREAU  
VERITAS

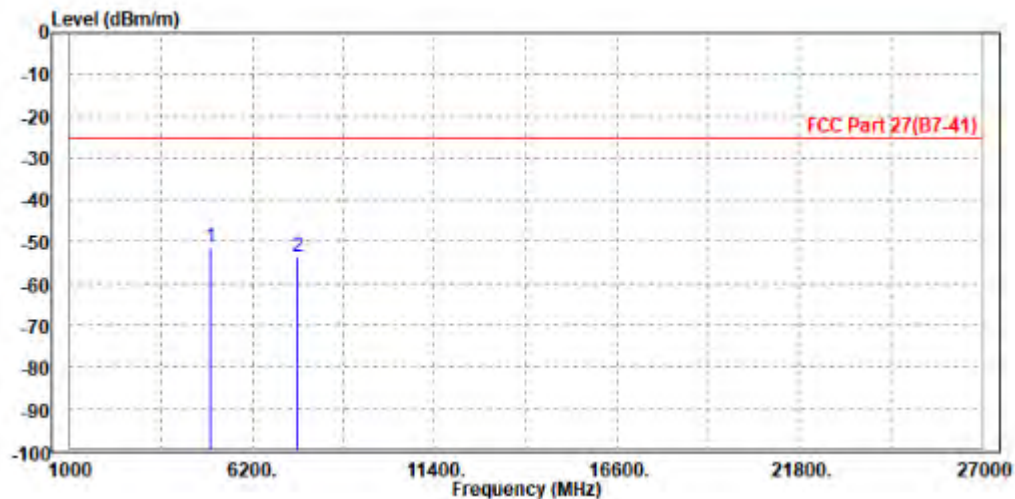
Test Report No.: W7L-P22080003RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

CH39700

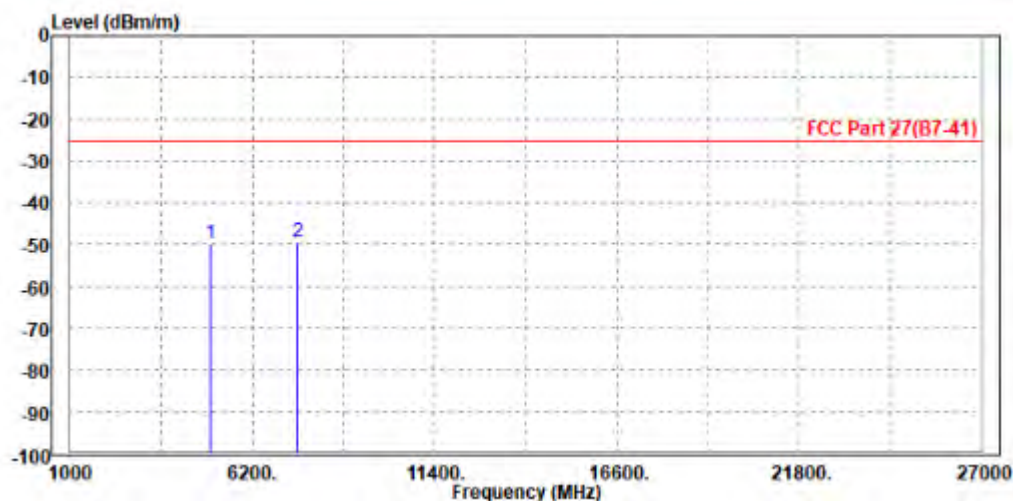
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 39700 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP 5004.000 | -51.50 | -61.20     | -25.00     | -26.50     | 9.70   | Peak   | Horizontal |
| 2 | 7503.000    | -53.52 | -64.96     | -25.00     | -28.52     | 11.44  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 39700 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5004.000 | -49.85 | -60.12     | -25.00     | -24.85     | 10.27  | Peak   | Vertical  |
| 2 PP | 7503.000 | -49.41 | -64.11     | -25.00     | -24.41     | 14.70  | Peak   | Vertical  |





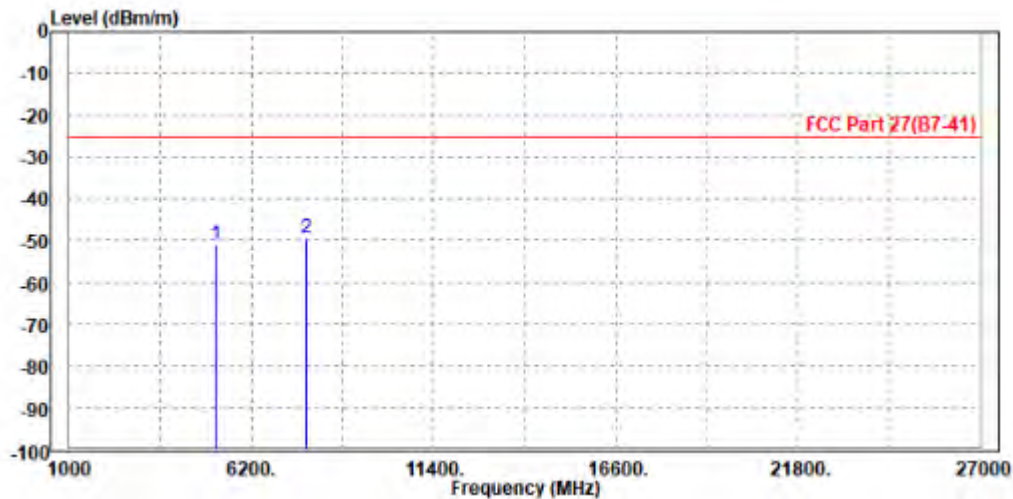
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Test Report No.: W7L-P22080003RF06

CH40620

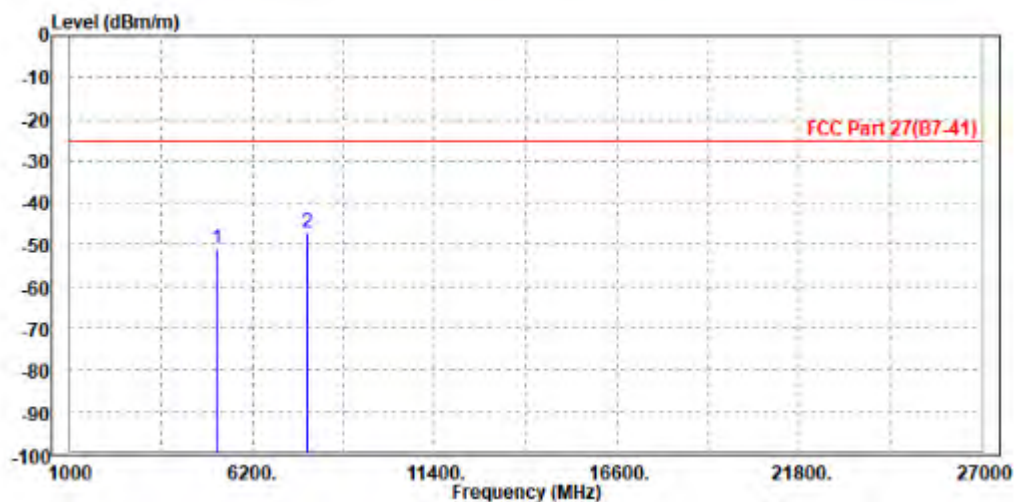
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -51.06 | -61.04     | -25.00     | -26.06     | 9.98   | Peak   | Horizontal |
| 2 PP | 7779.000 | -49.61 | -63.05     | -25.00     | -24.61     | 13.44  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -50.86 | -61.30     | -25.00     | -25.86     | 10.44  | Peak   | Vertical  |
| 2 PP | 7779.000 | -47.28 | -62.39     | -25.00     | -22.28     | 15.11  | Peak   | Vertical  |



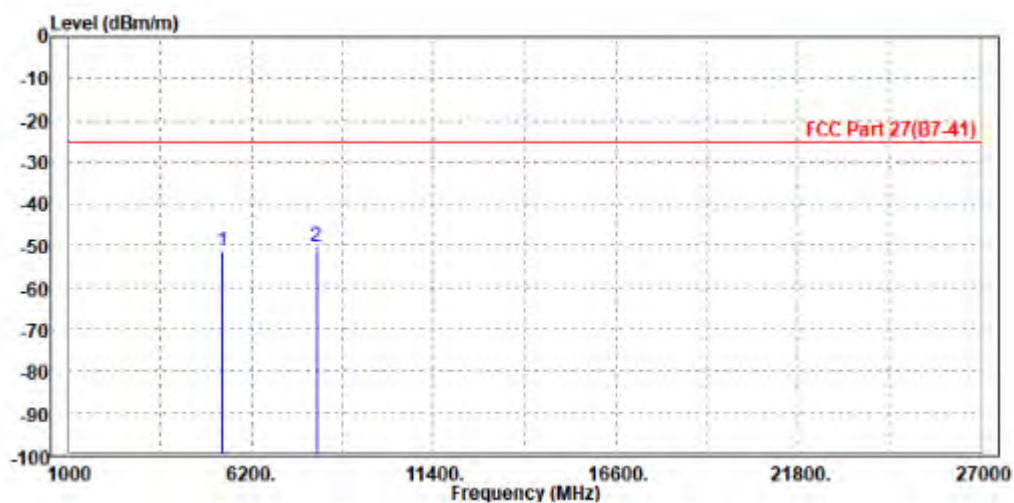


Test Report No.: W7L-P22080003RF06

CH41540

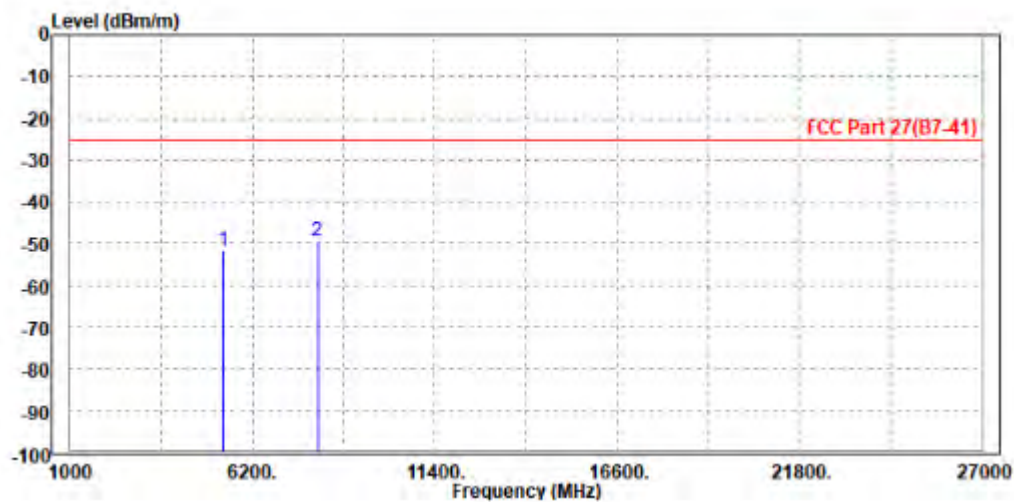
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 41540 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5368.000 | -51.38 | -61.65     | -25.00     | -26.38     | 10.27  | Peak   | Horizontal |
| 2 PP | 8055.000 | -50.01 | -65.04     | -25.00     | -25.01     | 15.03  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 41540 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

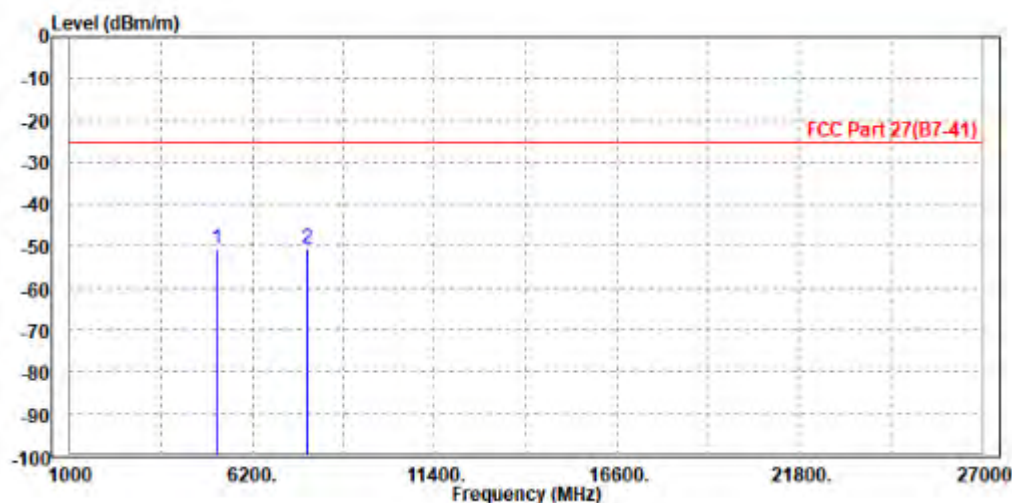
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | 5368.000    | -51.66 | -62.27     | -25.00     | -26.66     | 10.61  | Peak   | Vertical  |
| 2 | PP 8055.000 | -49.44 | -64.86     | -25.00     | -24.44     | 15.42  | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 15MHz / QPSK**

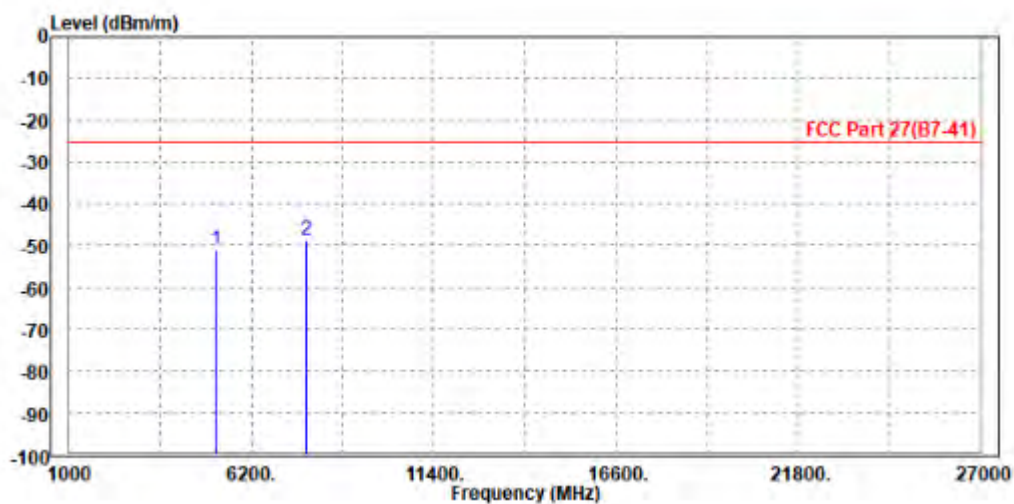
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -50.67 | -60.65     | -25.00     | -25.67     | 9.98   | Peak   | Horizontal |
| 2 PP | 7779.000 | -50.43 | -63.87     | -25.00     | -25.43     | 13.44  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

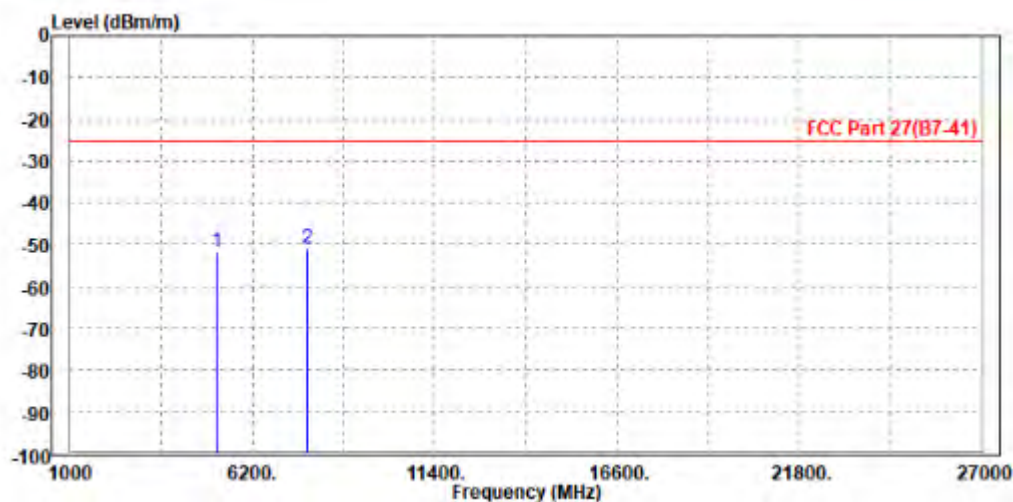
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -50.86 | -61.30     | -25.00     | -25.86     | 10.44  | Peak   | Vertical  |
| 2 PP | 7779.000 | -48.82 | -63.93     | -25.00     | -23.82     | 15.11  | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 20MHz / QPSK**  
**CH40620**

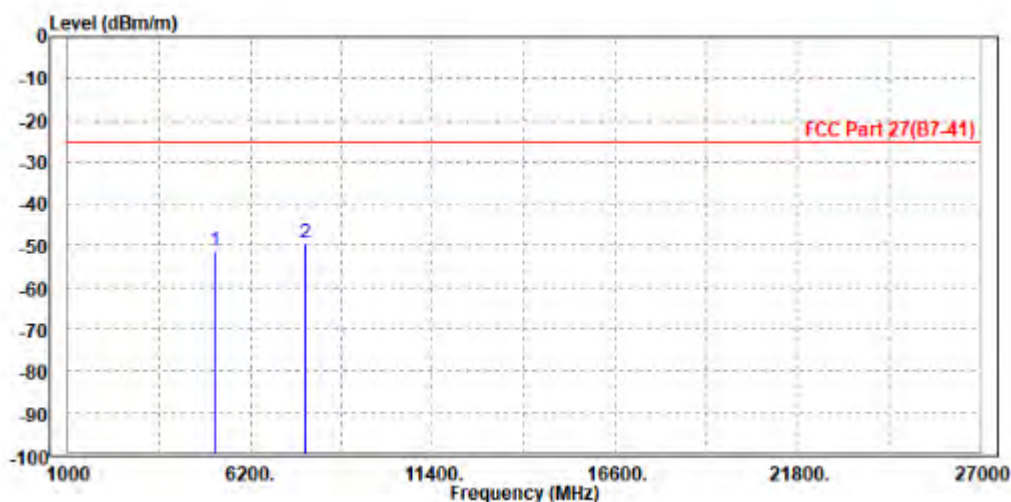
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -51.65 | -61.63     | -25.00     | -26.65     | 9.98   | Peak   | Horizontal |
| 2 PP | 7779.000 | -50.92 | -64.36     | -25.00     | -25.92     | 13.44  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 40620 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -51.24 | -61.68     | -25.00     | -26.24     | 10.44  | Peak   | Vertical  |
| 2 PP | 7779.000 | -49.27 | -64.38     | -25.00     | -24.27     | 15.11  | Peak   | Vertical  |





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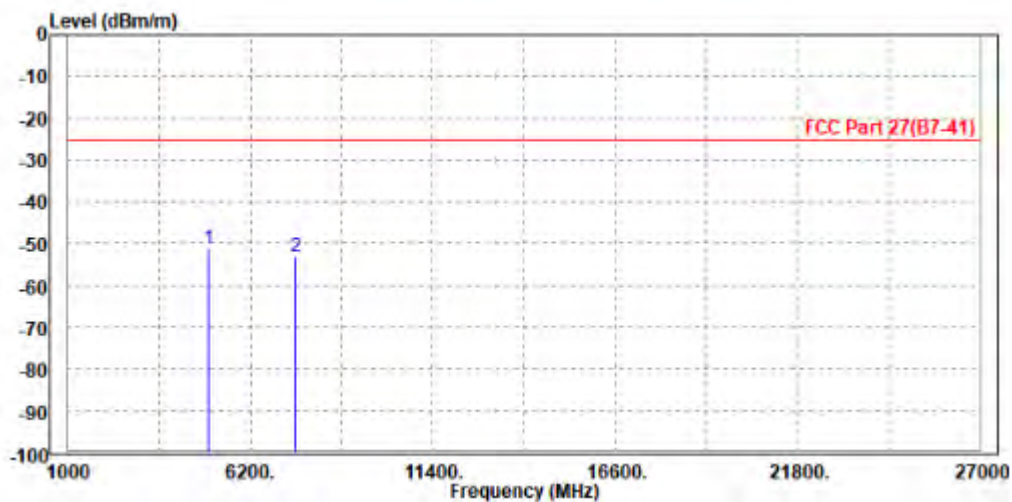
Test Report No.: W7L-P22080003RF06

LTE Band CA\_41C

CHANNEL BANDWIDTH: 5MHz + 20MHz

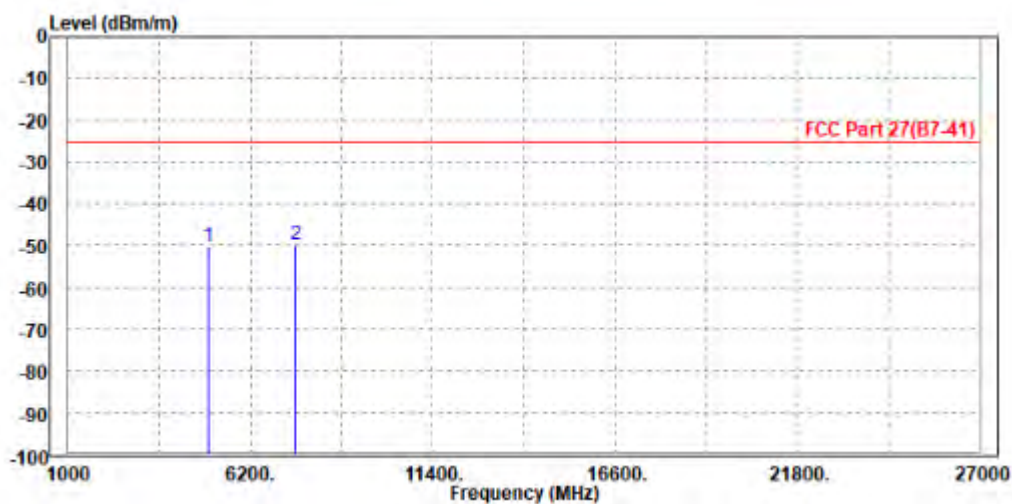
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 39683 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 39800 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|----|----------|--------|------------|------------|------------|--------|--------|------------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP | 5004.000 | -51.18 | -60.88     | -25.00     | -26.18     | 9.70   | Peak   | Horizontal |
| 2 |    | 7497.900 | -53.20 | -64.62     | -25.00     | -28.20     | 11.42  | Peak   | Horizontal |



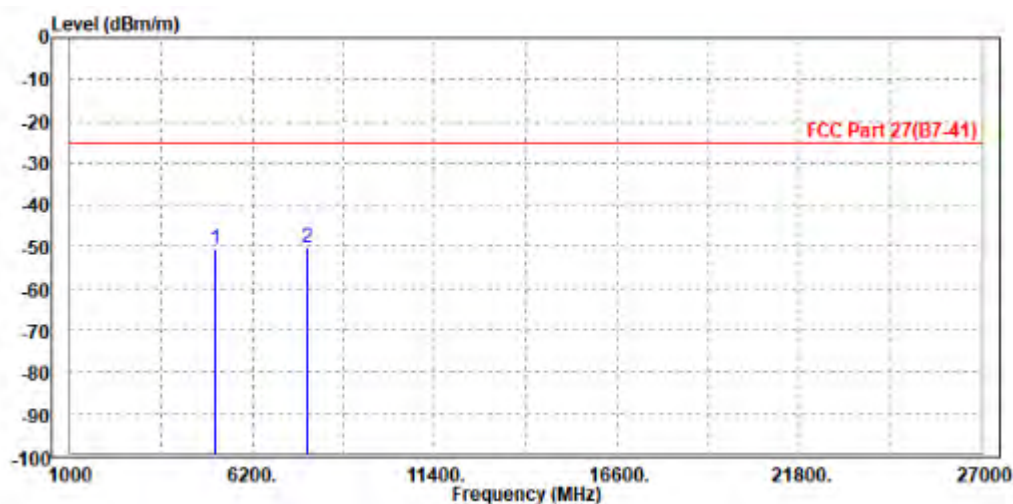
|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 39683 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 39800 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5004.000 | -50.19 | -60.46     | -25.00     | -25.19     | 10.27  | Peak   | Vertical  |
| 2 PP | 7497.900 | -49.85 | -64.54     | -25.00     | -24.85     | 14.69  | Peak   | Vertical  |



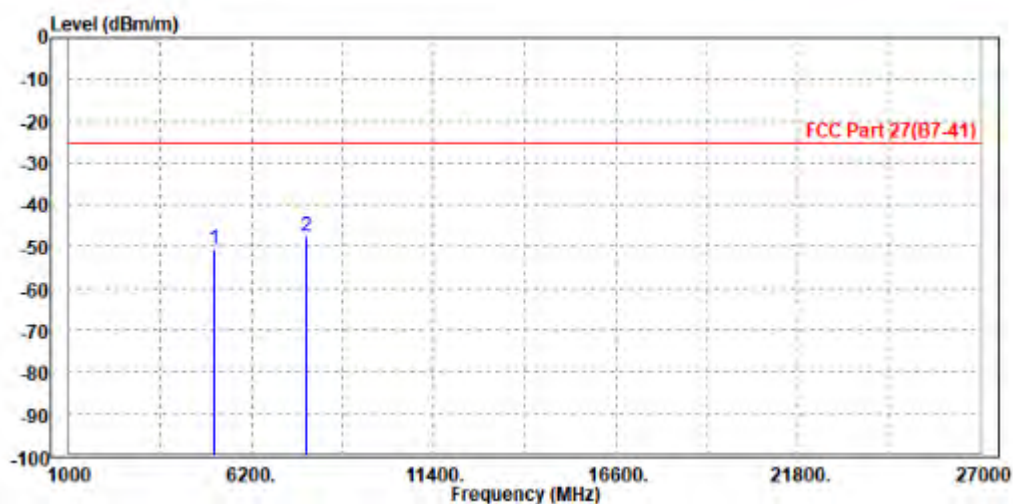
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40528 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40645 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5160.000 | -50.74 | -60.68     | -25.00     | -25.74     | 9.94   | Peak   | Horizontal |
| 2 PP | 7751.400 | -50.21 | -63.45     | -25.00     | -25.21     | 13.24  | Peak   | Horizontal |



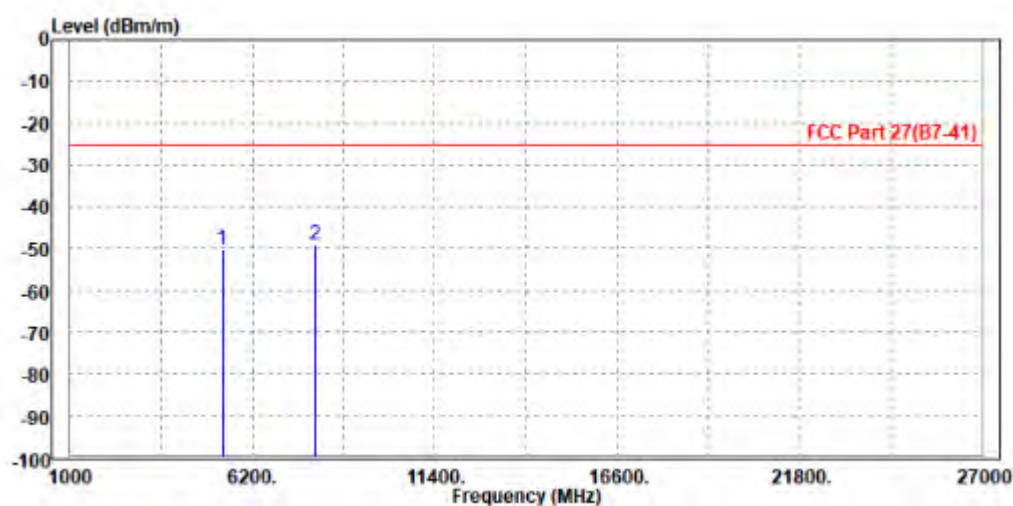
|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40528 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40645 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5160.000 | -50.41 | -60.83     | -25.00     | -25.41     | 10.42  | Peak   | Vertical  |
| 2 PP | 7751.400 | -47.49 | -62.56     | -25.00     | -22.49     | 15.07  | Peak   | Vertical  |



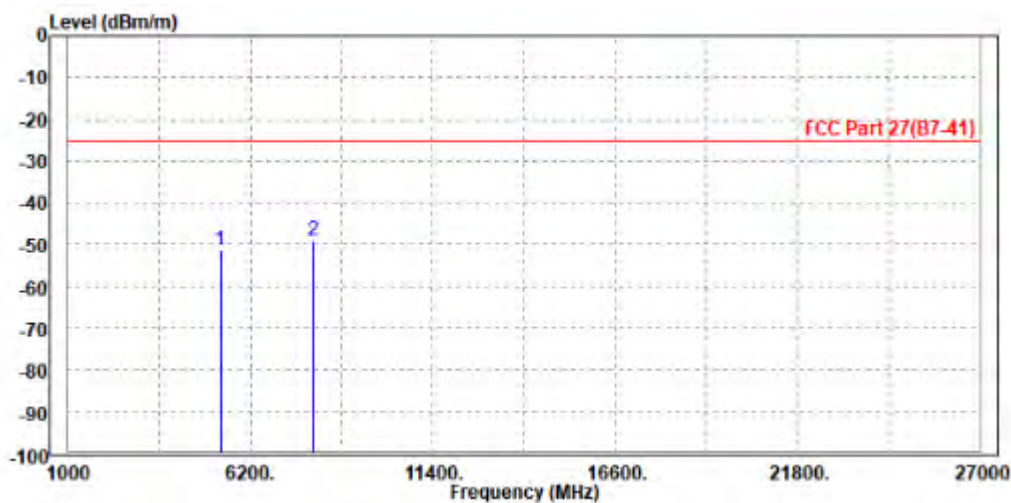
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 41373 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 41490 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5342.000 | -50.02 | -60.25     | -25.00     | -25.02     | 10.23  | Peak   | Horizontal |
| 2 PP | 8004.900 | -49.22 | -64.27     | -25.00     | -24.22     | 15.05  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 41373 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 41490 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

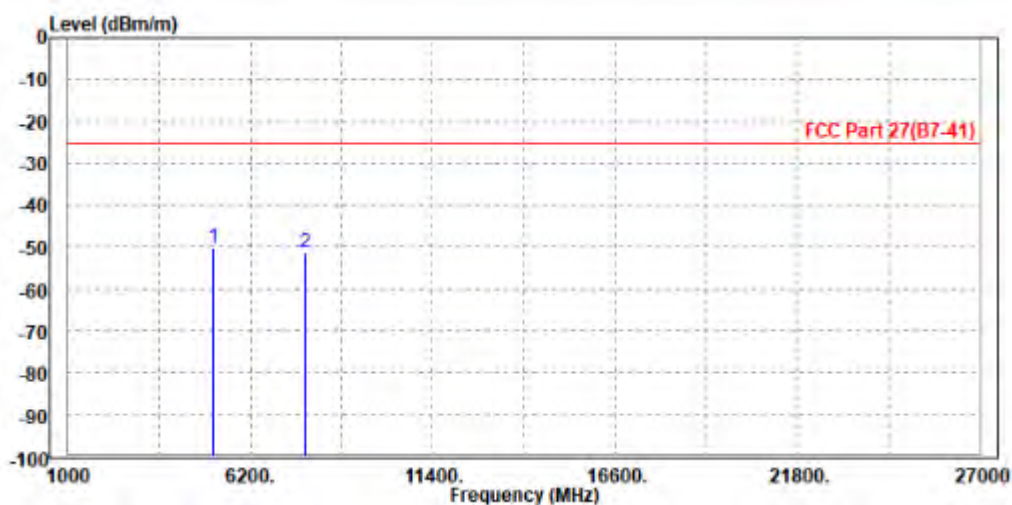
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5342.000 | -51.17 | -61.75     | -25.00     | -26.17     | 10.58  | Peak   | Vertical  |
| 2 PP | 8004.900 | -49.02 | -64.46     | -25.00     | -24.02     | 15.44  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 10 MHz + 15MHz

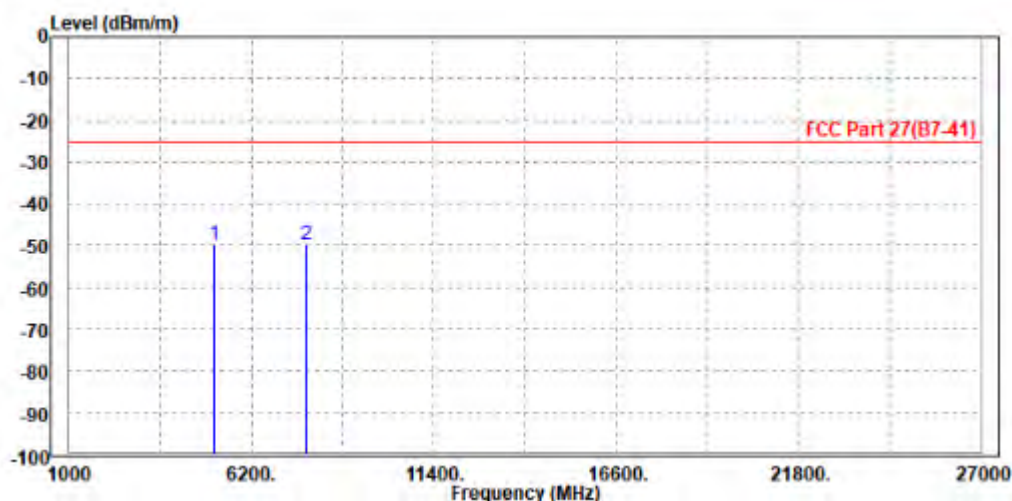
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40549 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40669 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5160.000 | -50.36 | -60.30     | -25.00     | -25.36     | 9.94   | Peak   | Horizontal |
| 2    | 7757.700 | -51.50 | -64.79     | -25.00     | -26.50     | 13.29  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40549 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40669 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

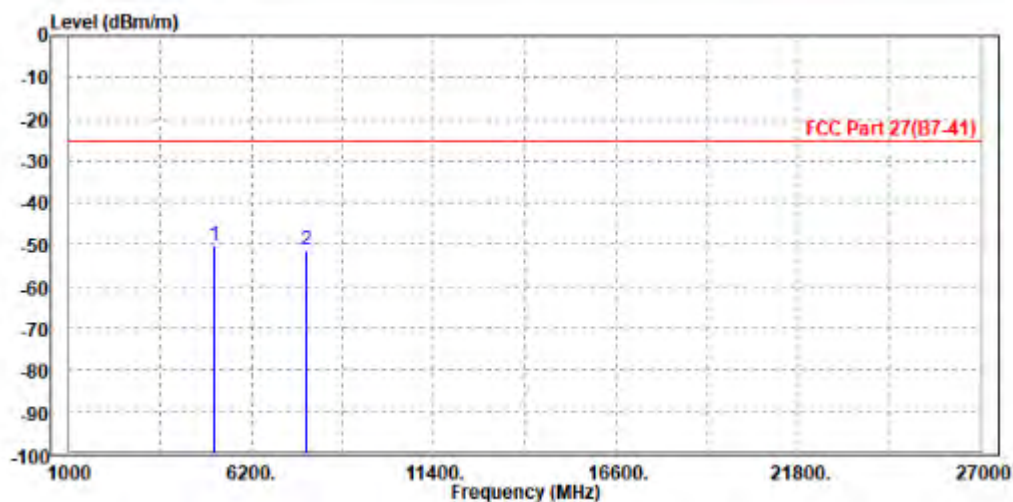
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 5160.000 | -49.64 | -60.06     | -25.00     | -24.64     | 10.42  | Peak   | Vertical  |
| 2    | 7757.700 | -49.69 | -64.77     | -25.00     | -24.69     | 15.08  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 10 MHz + 20MHz

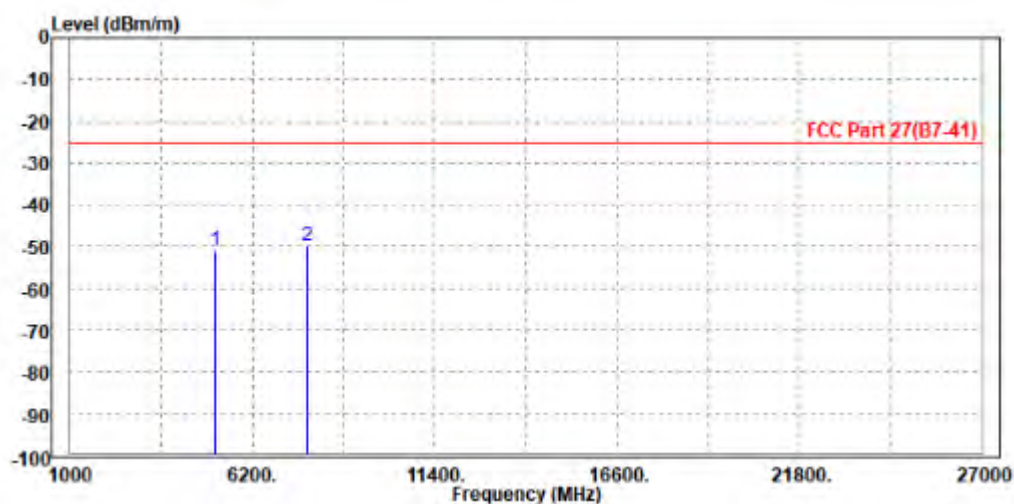
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40526 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40670 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5160.000 | -50.30 | -60.24     | -25.00     | -25.30     | 9.94   | Peak   | Horizontal |
| 2    | 7750.800 | -51.28 | -64.52     | -25.00     | -26.28     | 13.24  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40526 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40670 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

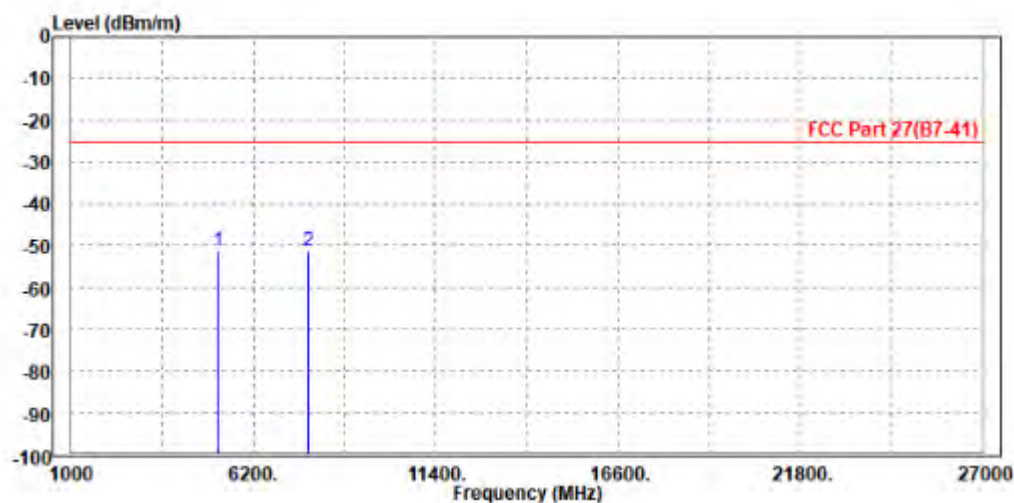
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5160.000 | -51.10 | -61.52     | -25.00     | -26.10     | 10.42  | Peak   | Vertical  |
| 2 PP | 7750.800 | -49.81 | -64.88     | -25.00     | -24.81     | 15.07  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 15MHz + 10MHz

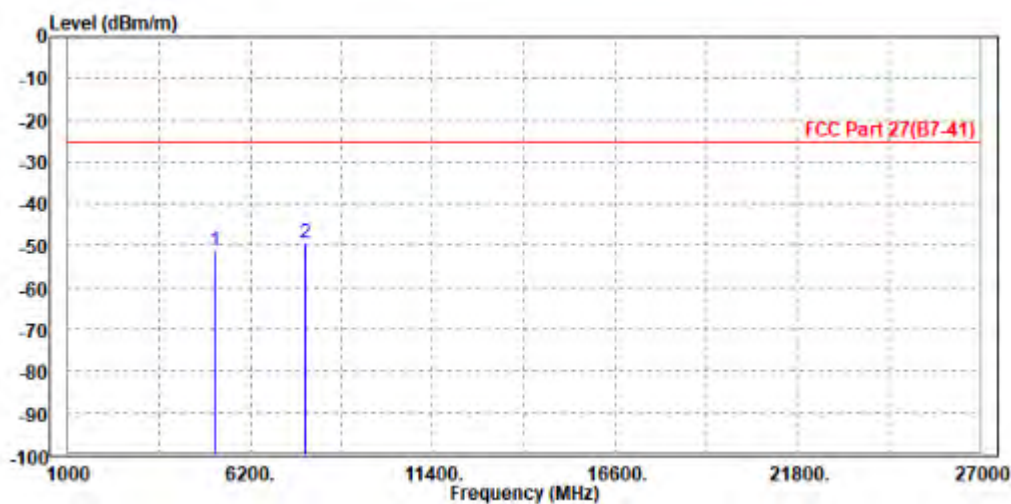
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40571 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40691 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -51.39 | -61.37     | -25.00     | -26.39     | 9.98   | Peak   | Horizontal |
| 2 PP | 7764.300 | -51.28 | -64.62     | -25.00     | -26.28     | 13.34  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40571 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40691 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

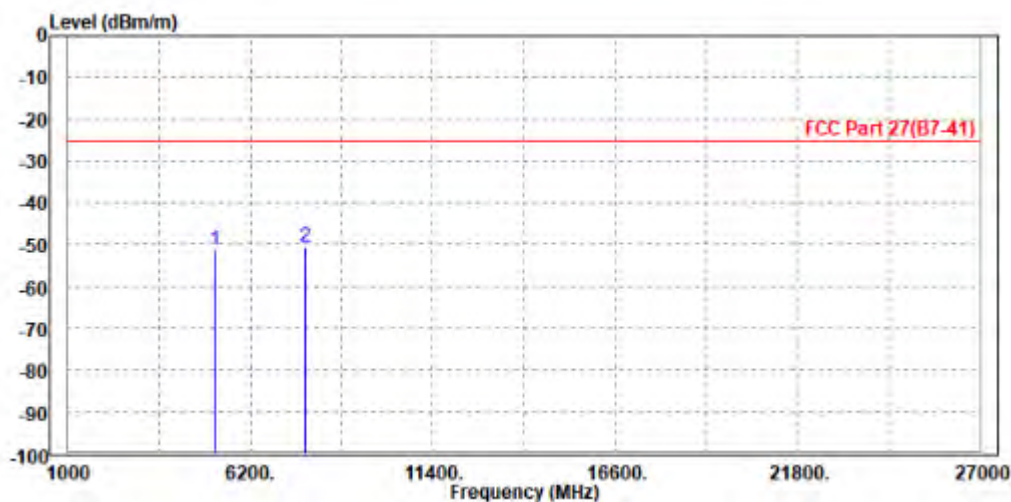
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -51.21 | -61.65     | -25.00     | -26.21     | 10.44  | Peak   | Vertical  |
| 2 PP | 7764.300 | -49.58 | -64.67     | -25.00     | -24.58     | 15.09  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 15MHz + 15MHz

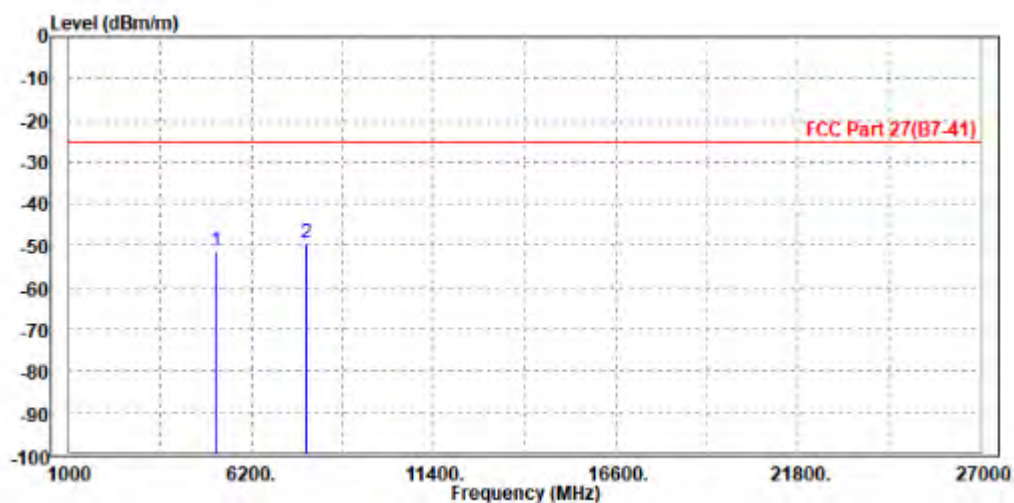
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40545 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40695 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -51.32 | -61.30     | -25.00     | -26.32     | 9.98   | Peak   | Horizontal |
| 2 PP | 7764.300 | -50.40 | -63.74     | -25.00     | -25.40     | 13.34  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40545 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40695 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

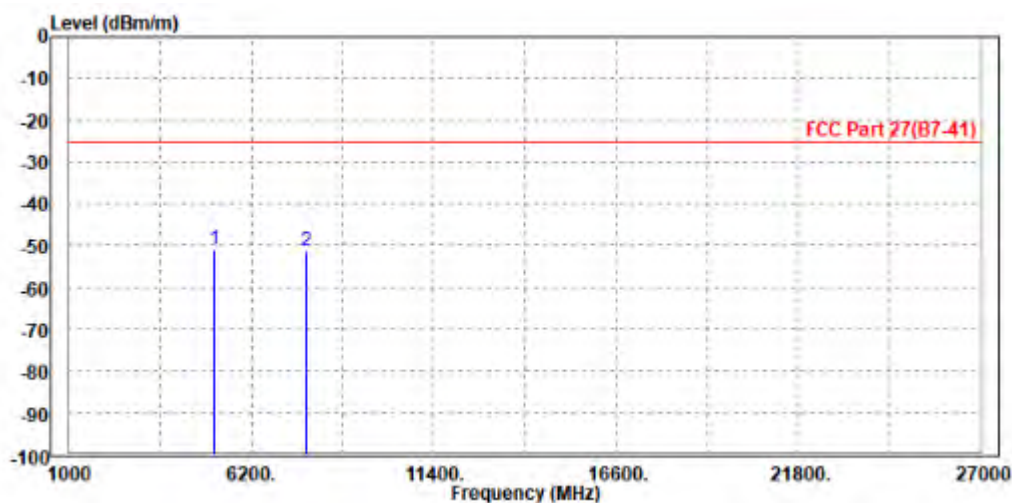
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -51.28 | -61.72     | -25.00     | -26.28     | 10.44  | Peak   | Vertical  |
| 2 PP | 7764.300 | -49.35 | -64.44     | -25.00     | -24.35     | 15.09  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 15MHz + 20MHz

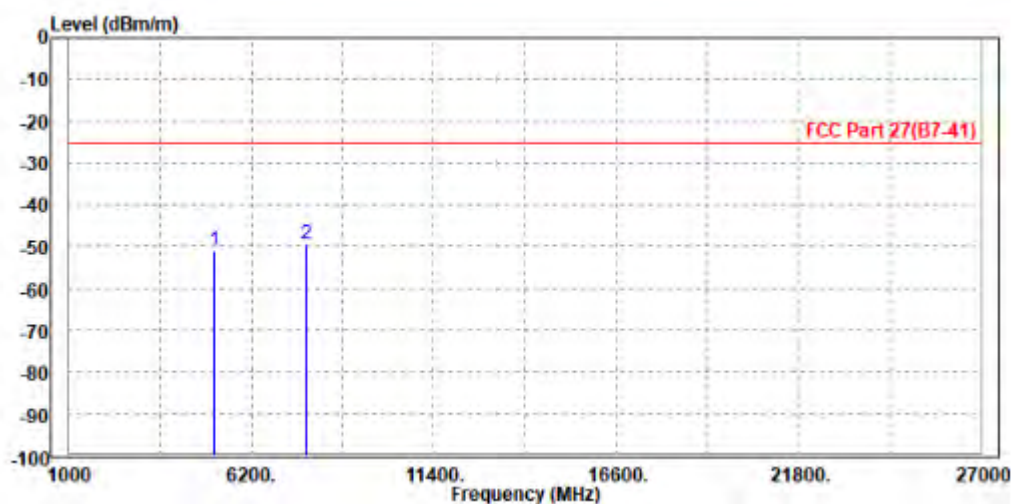
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40523 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40694 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5160.000 | -50.98 | -60.92     | -25.00     | -25.98     | 9.94   | Peak   | Horizontal |
| 2    | 7749.900 | -51.51 | -64.74     | -25.00     | -26.51     | 13.23  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40523 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40694 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

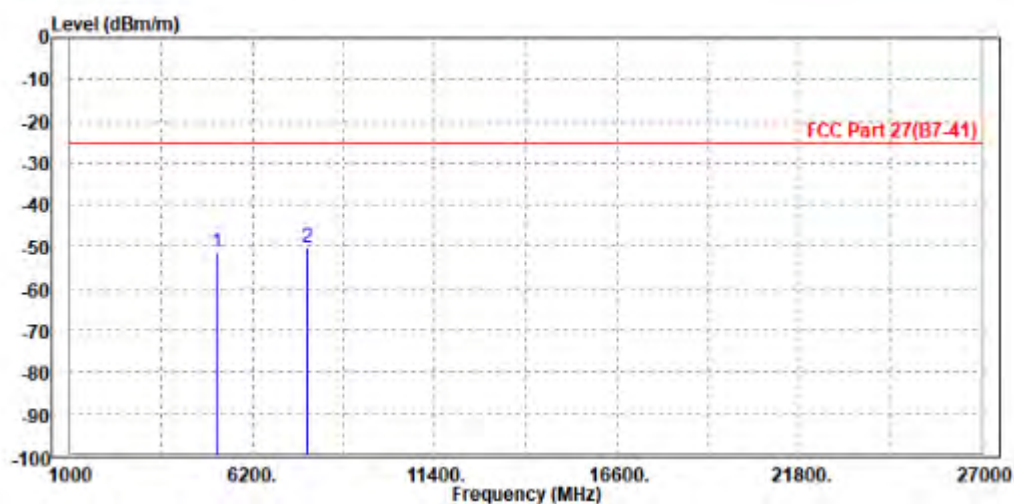
|      | Freq     | Level  | Read Level | Limit  | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|--------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m  | dB         | dB/m   |        |           |
| 1    | 5160.000 | -50.95 | -61.37     | -25.00 | -25.95     | 10.42  | Peak   | Vertical  |
| 2 PP | 7749.900 | -49.46 | -64.53     | -25.00 | -24.46     | 15.07  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 20MHz + 5MHz

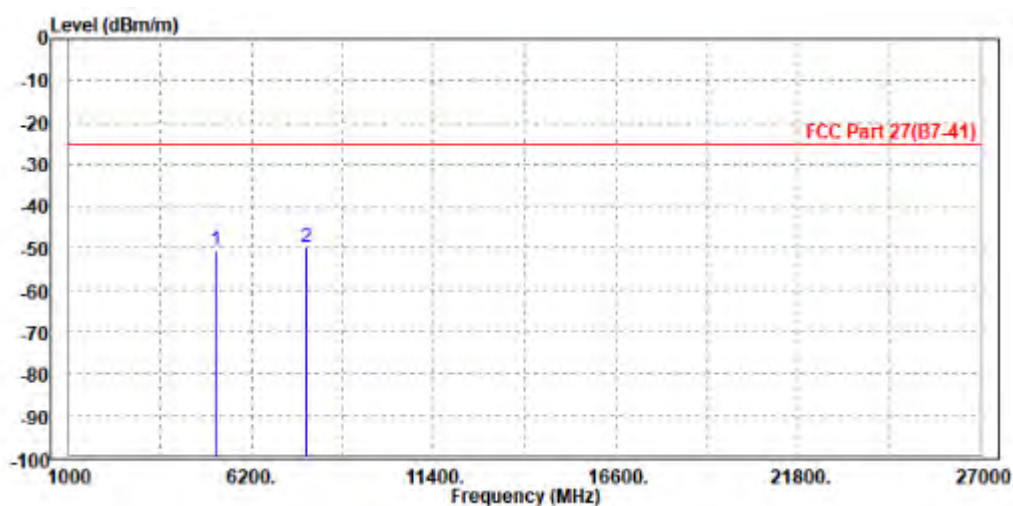
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40595 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40712 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -51.29 | -61.27     | -25.00     | -26.29     | 9.98   | Peak   | Horizontal |
| 2 PP | 7771.500 | -50.02 | -63.41     | -25.00     | -25.02     | 13.39  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40595 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40712 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

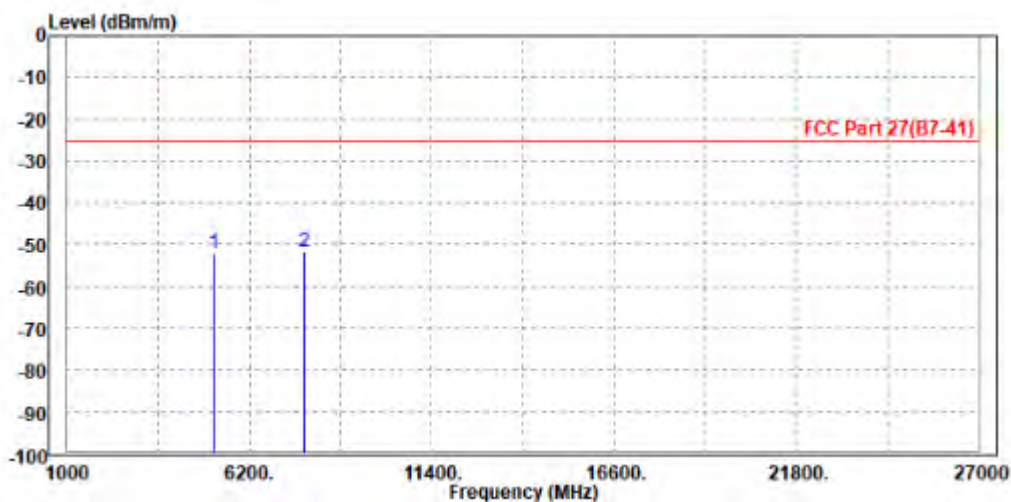
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5186.000 | -50.60 | -61.04     | -25.00     | -25.60     | 10.44  | Peak   | Vertical  |
| 2 PP | 7771.500 | -49.83 | -64.93     | -25.00     | -24.83     | 15.10  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 20MHz + 10MHz

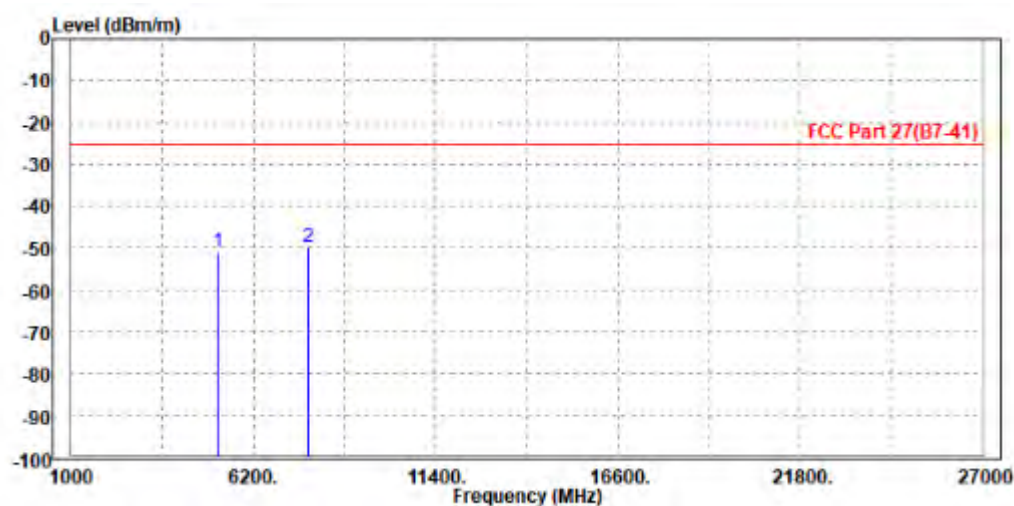
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40571 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40715 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1    | 5186.000 | -52.05 | -62.03     | -25.00     | -27.05     | 9.98   | Peak   | Horizontal |
| 2 PP | 7764.300 | -51.70 | -65.04     | -25.00     | -26.70     | 13.34  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40571 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40715 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

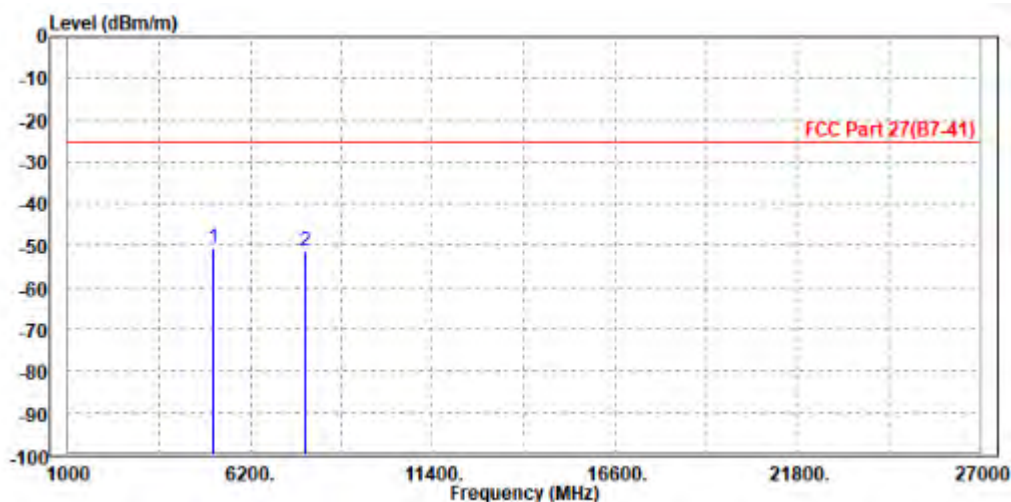
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | 5186.000    | -50.88 | -61.32     | -25.00     | -25.88     | 10.44  | Peak   | Vertical  |
| 2 | PP 7764.300 | -49.89 | -64.98     | -25.00     | -24.89     | 15.09  | Peak   | Vertical  |



CHANNEL BANDWIDTH: 20MHz + 15MHz

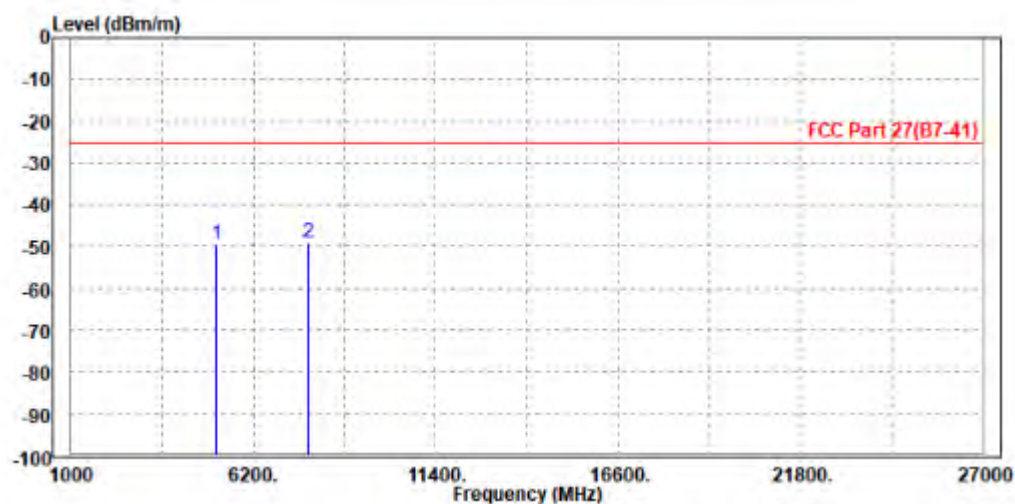
|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40546 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40717 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5160.000 | -50.51 | -60.45     | -25.00     | -25.51     | 9.94   | Peak   | Horizontal |
| 2    | 7756.800 | -51.19 | -64.47     | -25.00     | -26.19     | 13.28  | Peak   | Horizontal |



|                                                   |                      |                 |               |
|---------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                              | TX channel PCC 40546 | FREQUENCY RANGE | Above 1000MHz |
|                                                   | TX channel SCC 40717 |                 |               |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 5160.000 | -49.46 | -59.88     | -25.00     | -24.46     | 10.42  | Peak   | Vertical  |
| 2 PP | 7756.800 | -48.99 | -64.07     | -25.00     | -23.99     | 15.08  | Peak   | Vertical  |





**BUREAU  
VERITAS**

Test Report No.: W7L-P22080003RF06

CHANNEL BANDWIDTH: 20MHz + 20MHz

|                                                     |                      |                 |               |
|-----------------------------------------------------|----------------------|-----------------|---------------|
| MODE                                                | TX channel PCC 40521 | FREQUENCY RANGE | Above 1000MHz |
|                                                     | TX channel SCC 40719 |                 |               |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH      | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu              |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                      |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 5160.000 | -49.12 | -59.06     | -25.00     | -24.12     | 9.94   | Peak   | Horizontal |
| 2    | 7749.300 | -50.74 | -63.97     | -25.00     | -25.74     | 13.23  | Peak   | Horizontal |

