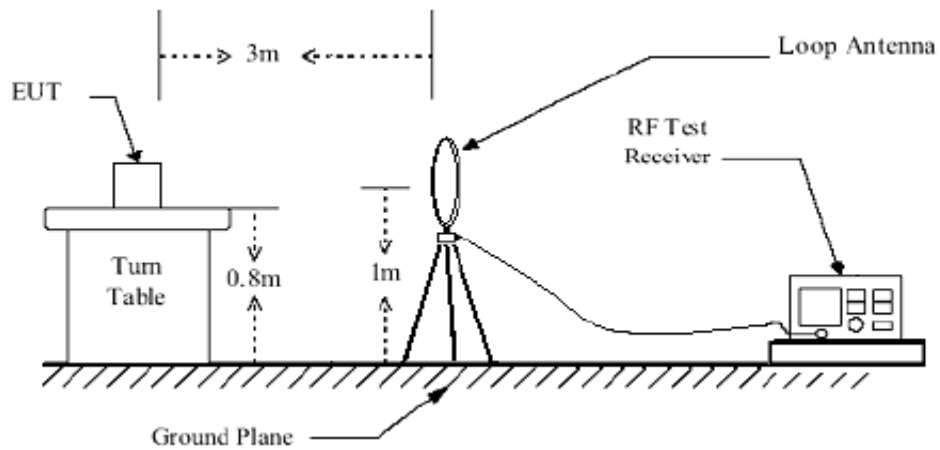
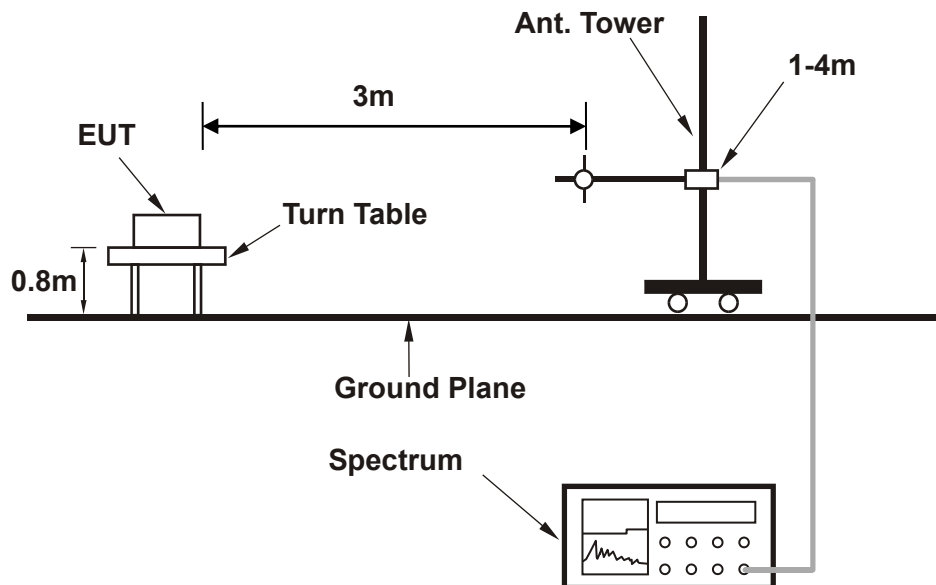


### 3.6.4 TEST SETUP

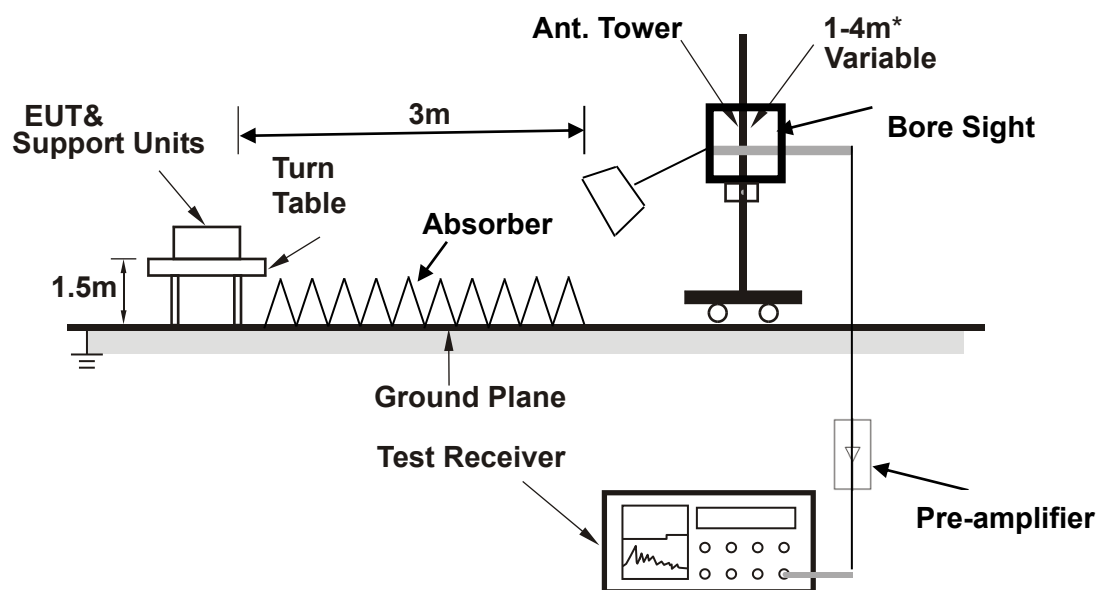
#### < Frequency Range below 30MHz >



#### < 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

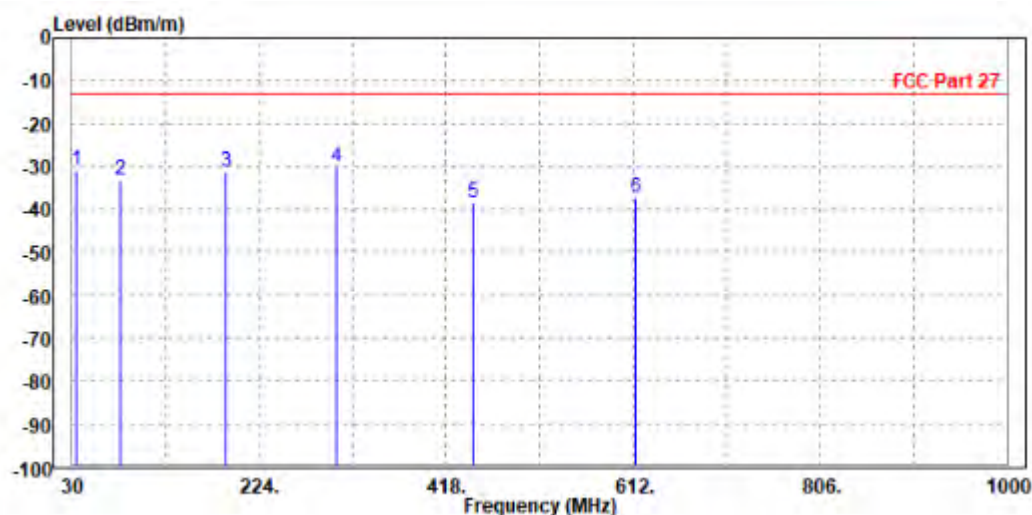
30 MHz – 1GHz data:

LTE Band 13

CHANNEL BANDWIDTH: 5MHz / QPSK

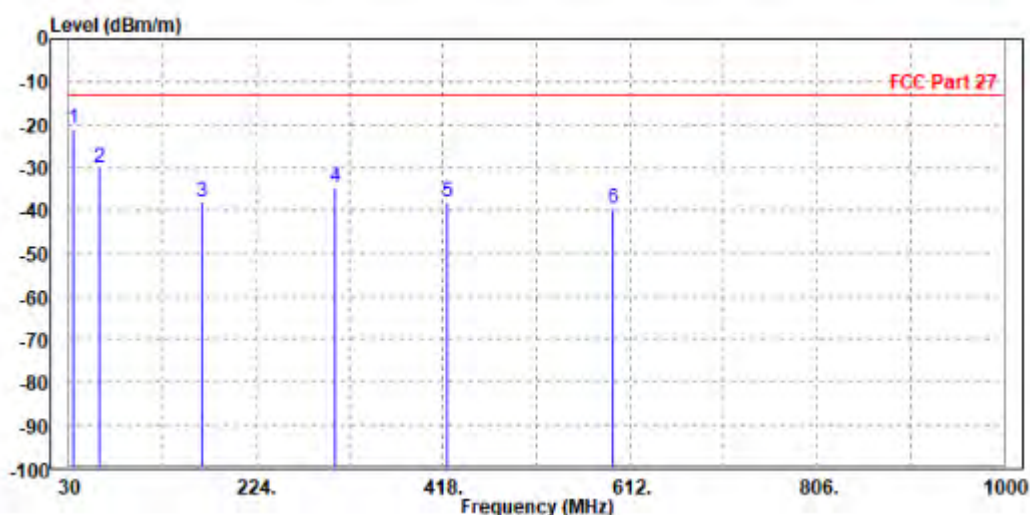
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23255 | FREQUENCY 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   | Limit  | Over   |        |        |            |
|------|---------|--------|--------|--------|--------|--------|--------|------------|
|      | MHz     | dBm/m  | Level  | Line   | Limit  | Factor | Remark | Pol/Phase  |
|      |         |        | dBm    | dBm/m  | dB     | dB/m   |        |            |
| 1    | 33.880  | -30.62 | -49.76 | -13.00 | -17.62 | 19.14  | Peak   | Horizontal |
| 2    | 80.440  | -32.97 | -40.87 | -13.00 | -19.97 | 7.90   | Peak   | Horizontal |
| 3    | 189.080 | -31.16 | -41.72 | -13.00 | -18.16 | 10.56  | Peak   | Horizontal |
| 4 PP | 303.540 | -29.98 | -44.08 | -13.00 | -16.98 | 14.10  | Peak   | Horizontal |
| 5    | 445.160 | -38.59 | -56.30 | -13.00 | -25.59 | 17.71  | Peak   | Horizontal |
| 6    | 614.910 | -37.27 | -58.27 | -13.00 | -24.27 | 21.00  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23255 | 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 | PP | 33.880  | -20.78 | -39.27     | -13.00     | -7.78      | 18.49  | Peak   | Vertical  |
| 2 |    | 62.010  | -30.03 | -37.93     | -13.00     | -17.03     | 7.90   | Peak   | Vertical  |
| 3 |    | 166.770 | -38.02 | -49.11     | -13.00     | -25.02     | 11.09  | Peak   | Vertical  |
| 4 |    | 305.480 | -34.61 | -49.73     | -13.00     | -21.61     | 15.12  | Peak   | Vertical  |
| 5 |    | 422.850 | -38.14 | -55.77     | -13.00     | -25.14     | 17.63  | Peak   | Vertical  |
| 6 |    | 593.570 | -39.73 | -60.51     | -13.00     | -26.73     | 20.78  | Peak   | Vertical  |





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**Test Report No.: W7L-P22030026-5RF05**

# **ABOVE 1GHz**

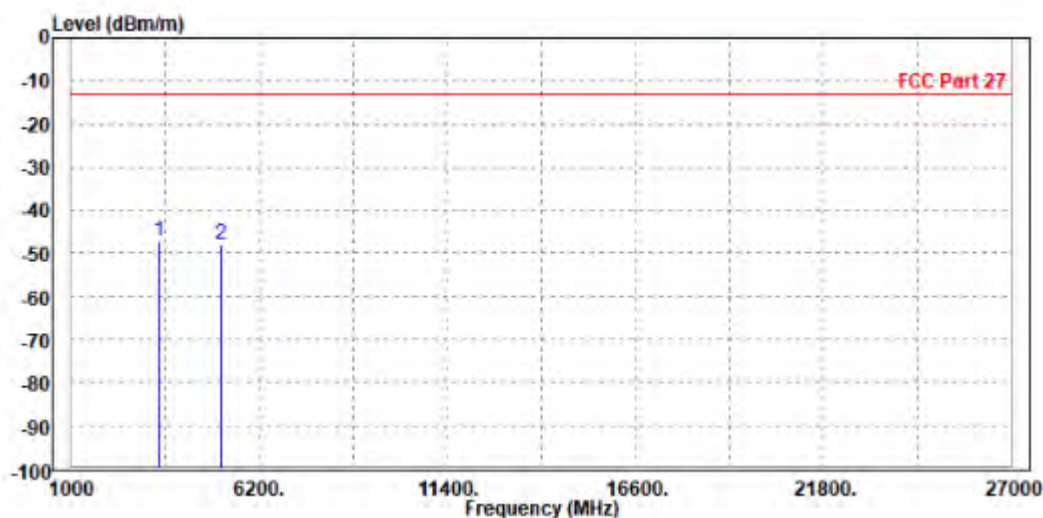
**Note:** For higher frequency, the emission is too low to be detected.

## **WCDMA Band IV:**

### **CH 1312**

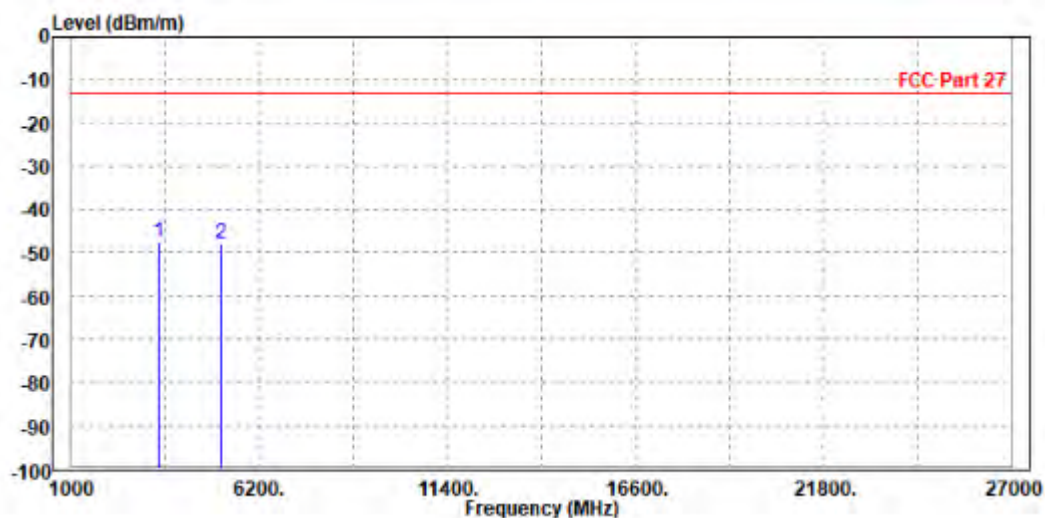
|                                                     |                 |                 |               |
|-----------------------------------------------------|-----------------|-----------------|---------------|
| MODE                                                | TX channel 1312 | FREQUENCY RANGE | 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 | 3418.000 | -47.30 | -55.89     | -13.00     | -34.30     | 8.59   | Peak   | Horizontal |
| 2 |    | 5137.200 | -47.98 | -56.92     | -13.00     | -34.98     | 8.94   | Peak   | Horizontal |



|                                                   |                 |                 |               |
|---------------------------------------------------|-----------------|-----------------|---------------|
| MODE                                              | TX channel 1312 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                 |                 |               |

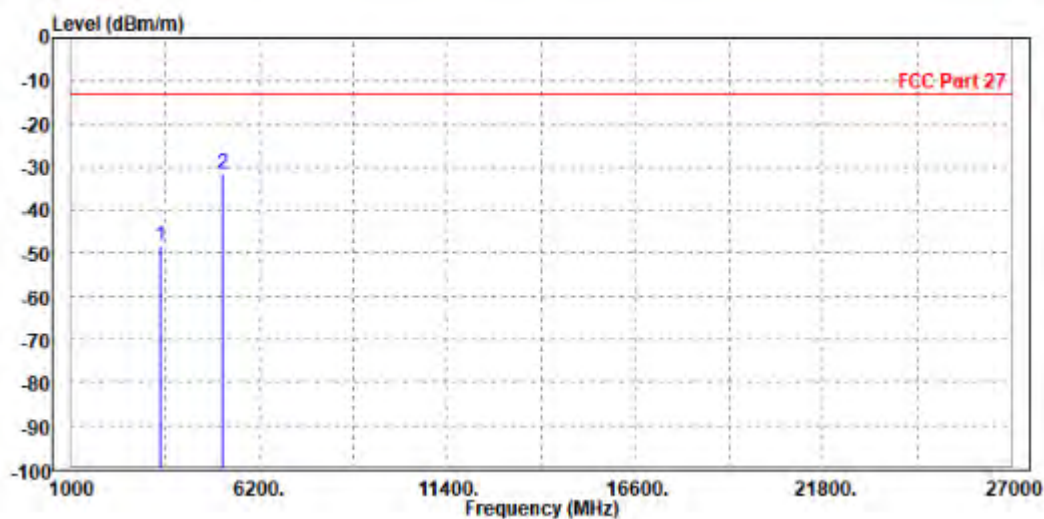
|      | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 PP | 3418.000 | -47.37 | -56.48        | -13.00        | -34.37        | 9.11   | Peak   | Vertical  |
| 2    | 5137.200 | -47.81 | -57.66        | -13.00        | -34.81        | 9.85   | Peak   | Vertical  |



CH 1413

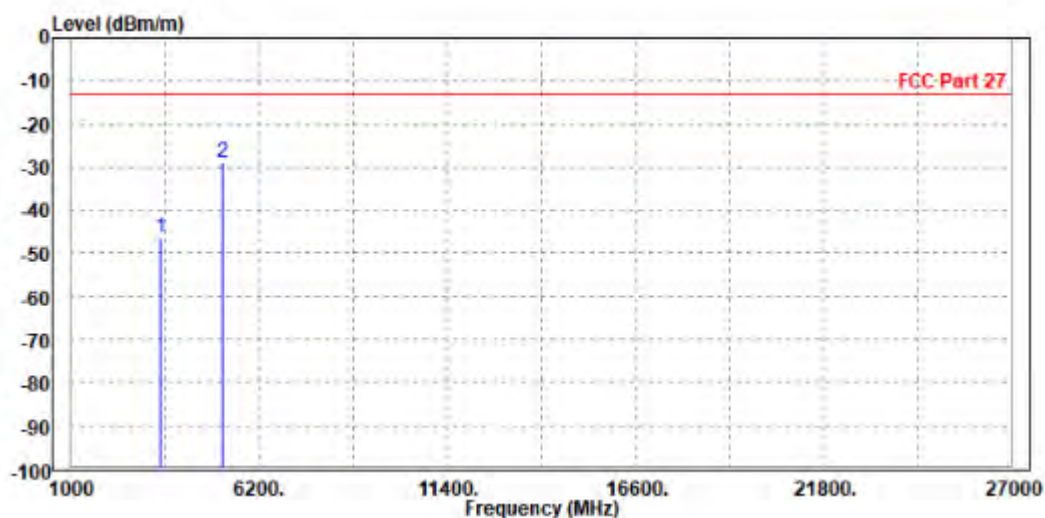
|                                                     |                 |                 |               |
|-----------------------------------------------------|-----------------|-----------------|---------------|
| MODE                                                | TX channel 1413 | FREQUENCY RANGE | 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    | 3470.000 | -48.35 | -56.93     | -13.00     | -35.35     | 8.58   | Peak   | Horizontal |
| 2 PP | 5197.800 | -31.57 | -40.69     | -13.00     | -18.57     | 9.12   | Peak   | Horizontal |



|                                                   |                 |                 |               |
|---------------------------------------------------|-----------------|-----------------|---------------|
| MODE                                              | TX channel 1413 | 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 |                 |                 |               |

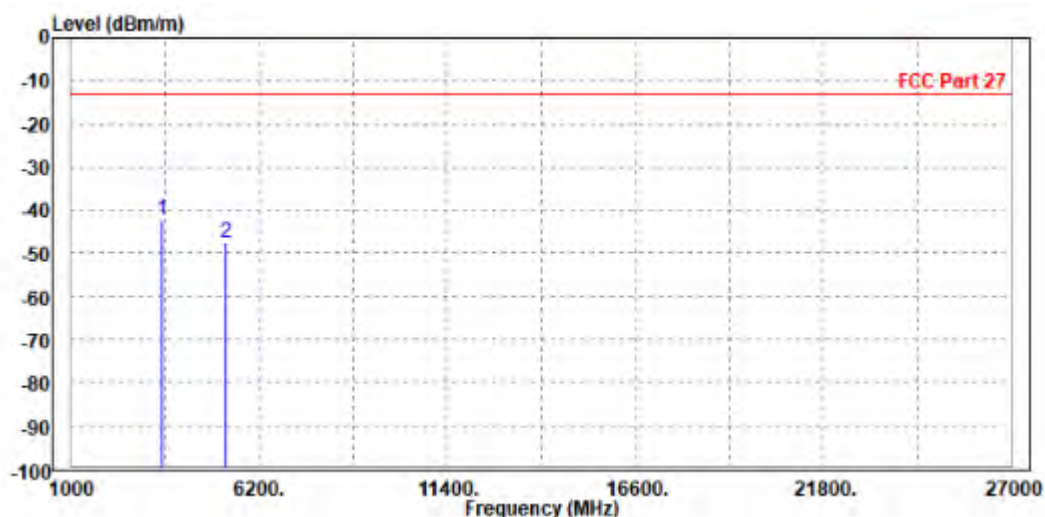
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 3470.000 | -46.24 | -55.40     | -13.00     | -33.24     | 9.16   | Peak   | Vertical  |
| 2 PP | 5197.800 | -28.89 | -38.71     | -13.00     | -15.89     | 9.82   | Peak   | Vertical  |



CH 1513

|                                                     |                 |                 |               |
|-----------------------------------------------------|-----------------|-----------------|---------------|
| MODE                                                | TX channel 1513 | 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 | 3496.000 | -42.33 | -50.90     | -13.00     | -29.33     | 8.57   | Peak   | Horizontal |
| 2    | 5257.800 | -47.57 | -56.87     | -13.00     | -34.57     | 9.30   | Peak   | Horizontal |



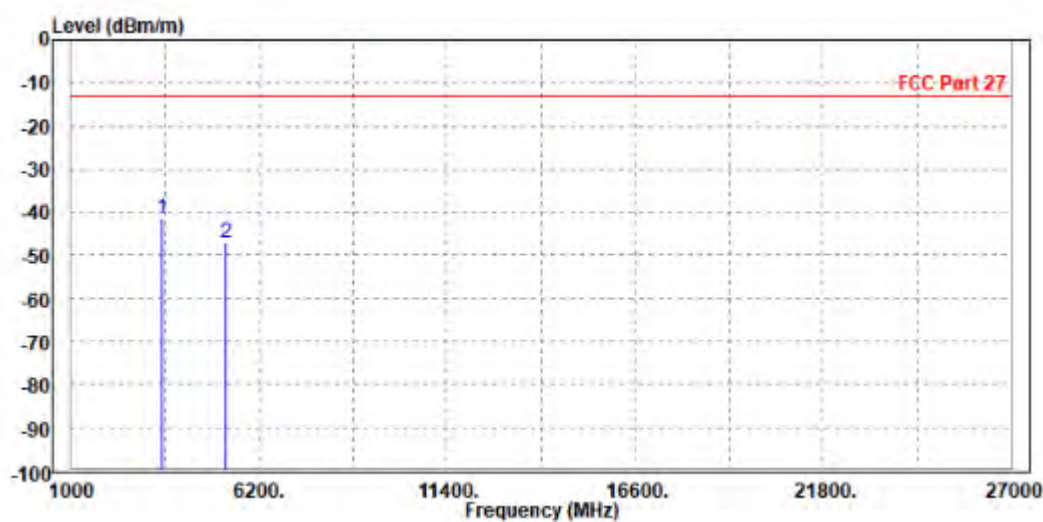


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Test Report No.: W7L-P22030026-5RF05

|                                                   |                 |                 |               |
|---------------------------------------------------|-----------------|-----------------|---------------|
| MODE                                              | TX channel 1513 | 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 | 3496.000 | -41.42 | -50.61     | -13.00     | -28.42     | 9.19   | Peak   | Vertical  |
| 2 |    | 5257.800 | -47.19 | -56.99     | -13.00     | -34.19     | 9.80   | Peak   | Vertical  |





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Test Report No.: W7L-P22030026-5RF05

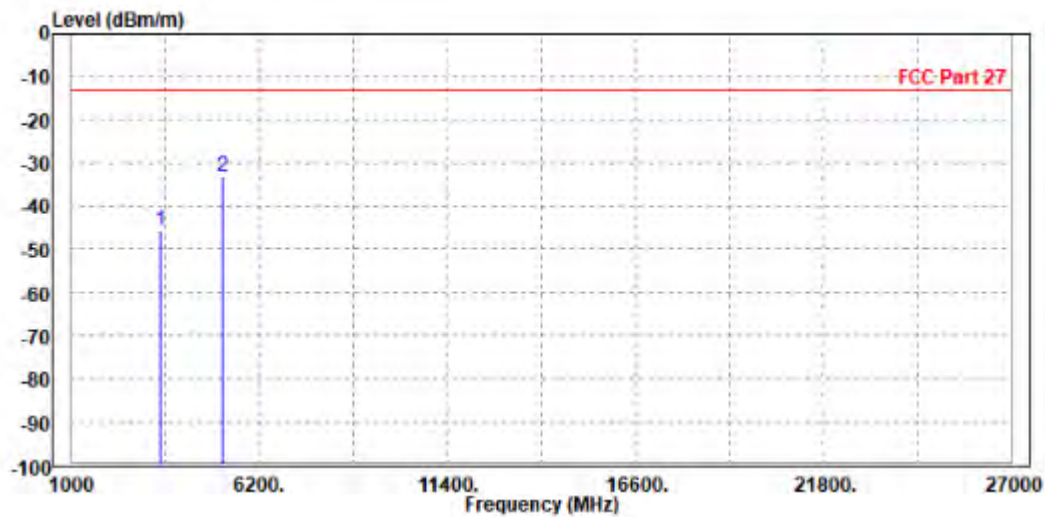
LTE Band 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH 20175

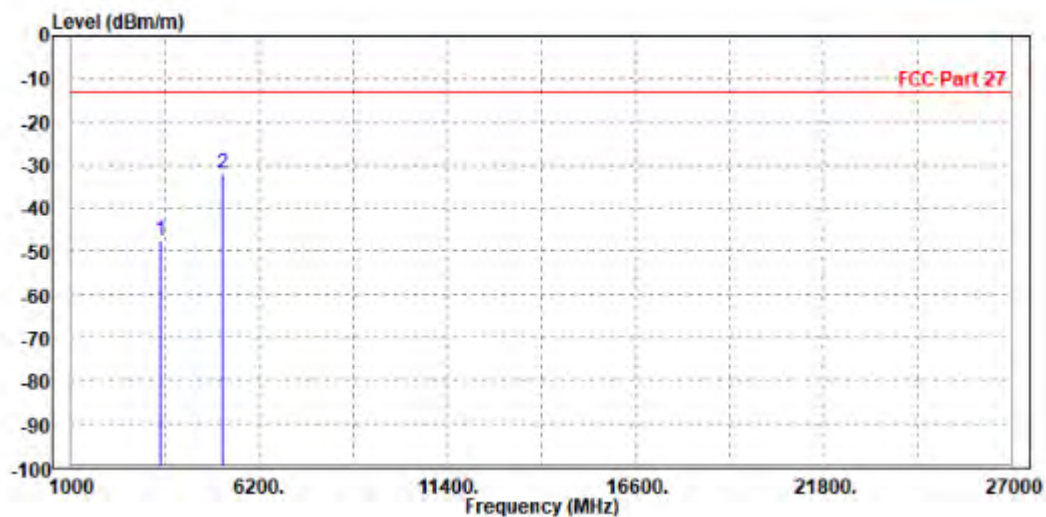
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20175 | FREQUENCY 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    | 3470.000 | -45.60 | -54.18     | -13.00     | -32.60     | 8.58   | Peak   | Horizontal |
| 2 PP | 5197.500 | -32.95 | -42.07     | -13.00     | -19.95     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20175 | 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    | 3465.000 | -47.44 | -56.60     | -13.00     | -34.44     | 9.16   | Peak   | Vertical  |
| 2 PP | 5186.000 | -31.97 | -41.80     | -13.00     | -18.97     | 9.83   | Peak   | Vertical  |





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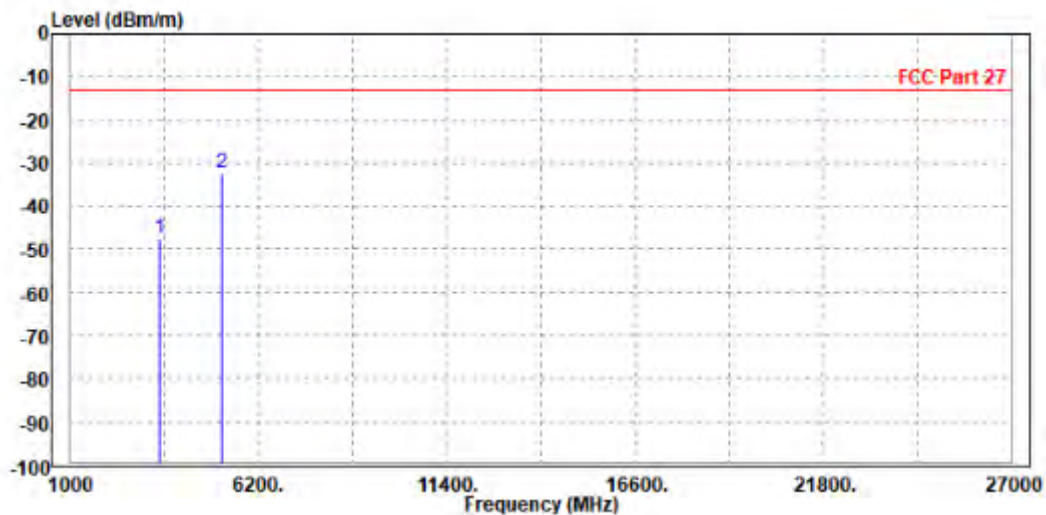
Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 3MHz / QPSK

CH 20175

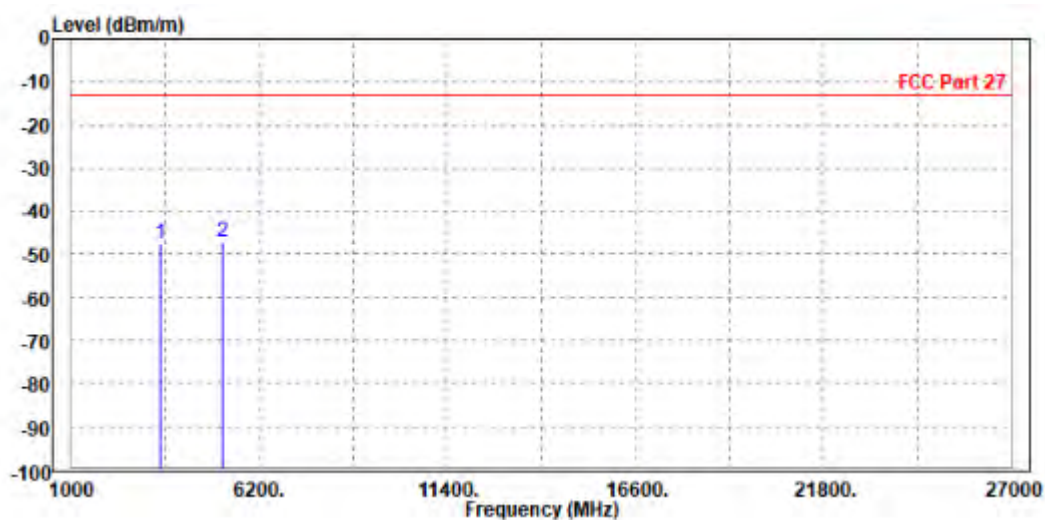
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20175 | FREQUENCY 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    | 3465.000 | -47.36 | -55.94     | -13.00     | -34.36     | 8.58   | Peak   | Horizontal |
| 2 PP | 5186.000 | -32.40 | -41.48     | -13.00     | -19.40     | 9.08   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20175 | 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    | 3470.000 | -47.65 | -56.81     | -13.00     | -34.65     | 9.16   | Peak   | Vertical  |
| 2 PP | 5197.500 | -47.00 | -56.82     | -13.00     | -34.00     | 9.82   | Peak   | Vertical  |





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VERITAS

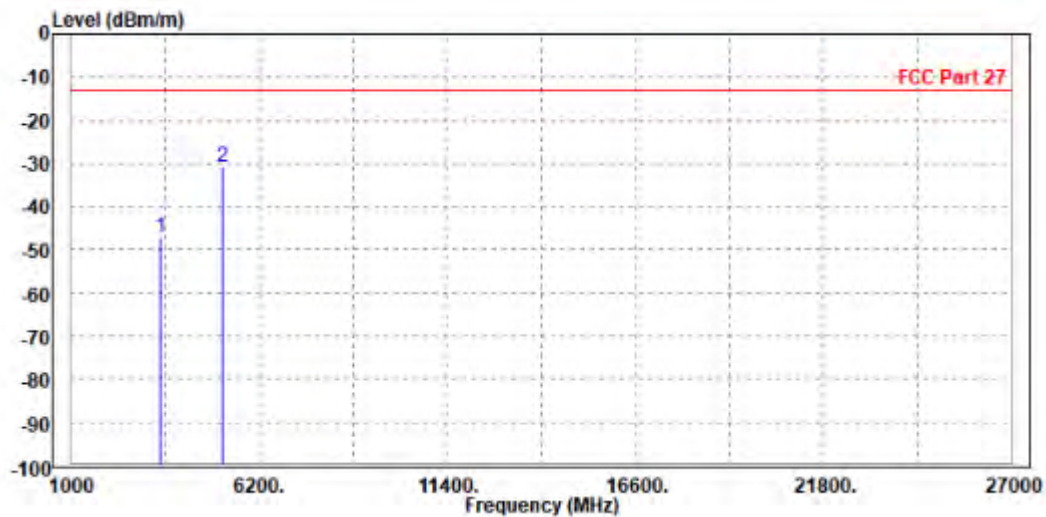
Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 20175

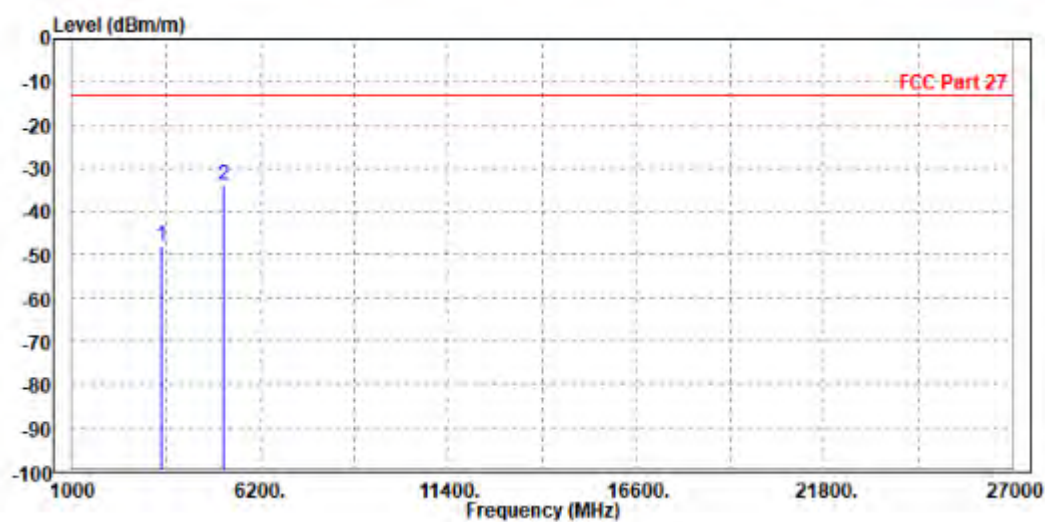
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20175 | FREQUENCY 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 | 3470.000    | -47.25 | -55.83     | -13.00     | -34.25     | 8.58   | Peak   | Horizontal |
| 2 | PP 5197.500 | -30.98 | -40.10     | -13.00     | -17.98     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20175 | 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    | 3465.000 | -47.84 | -57.00     | -13.00     | -34.84     | 9.16   | Peak   | Vertical  |
| 2 PP | 5186.000 | -33.93 | -43.76     | -13.00     | -20.93     | 9.83   | Peak   | Vertical  |





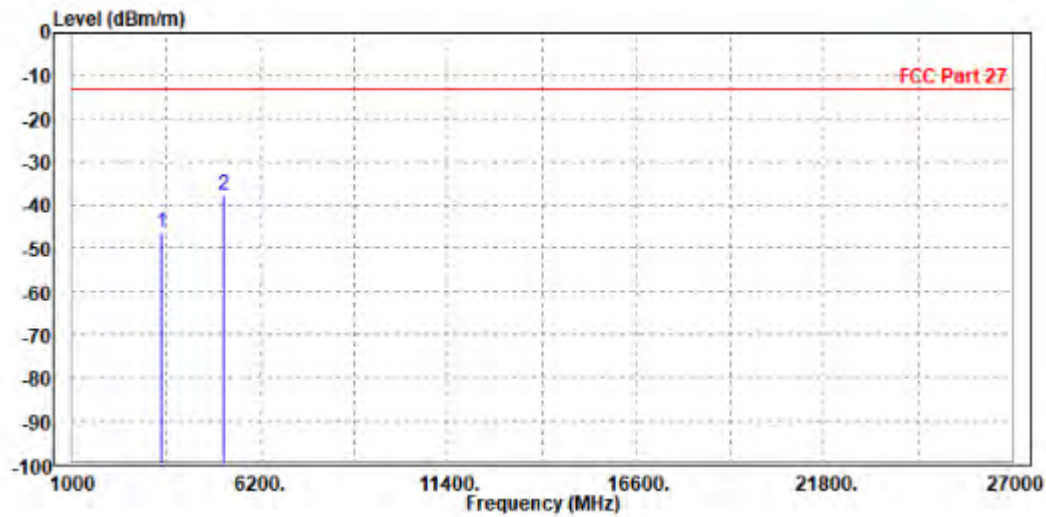
**BUREAU  
VERITAS**

Test Report No.: W7L-P22030026-5RF05

**CHANNEL BANDWIDTH: 10MHz / QPSK**

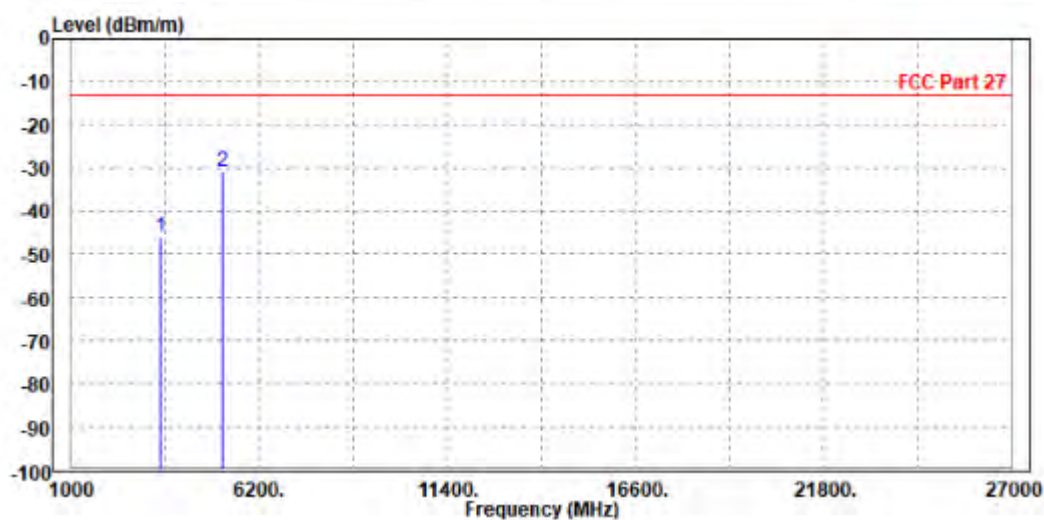
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20175 | FREQUENCY 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    | 3465.000 | -46.52 | -55.10     | -13.00     | -33.52     | 8.58   | Peak   | Horizontal |
| 2 PP | 5186.000 | -37.78 | -46.86     | -13.00     | -24.78     | 9.08   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20175 | 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    | 3470.000 | -46.16 | -55.32     | -13.00     | -33.16     | 9.16   | Peak   | Vertical  |
| 2 PP | 5197.500 | -30.73 | -40.55     | -13.00     | -17.73     | 9.82   | Peak   | Vertical  |



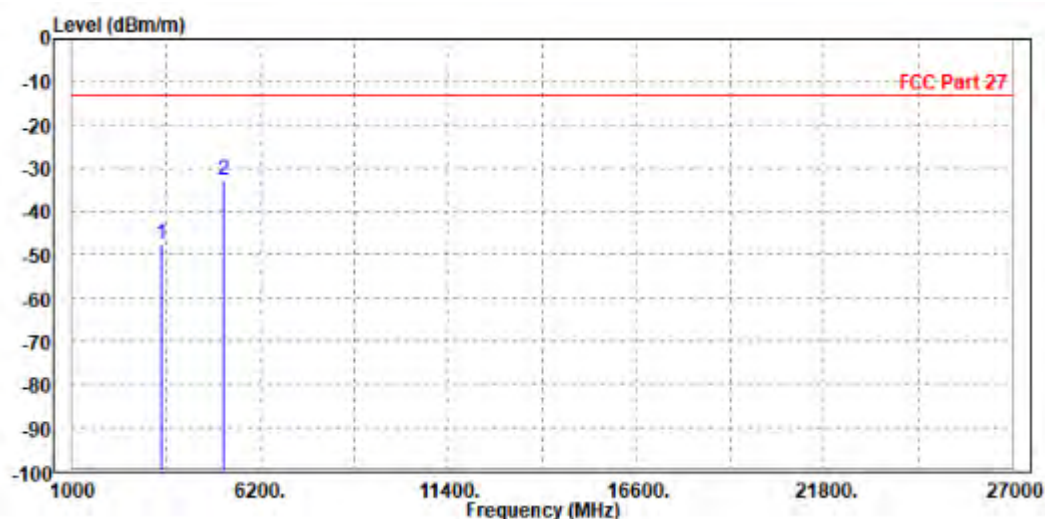


Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 15MHz / QPSK

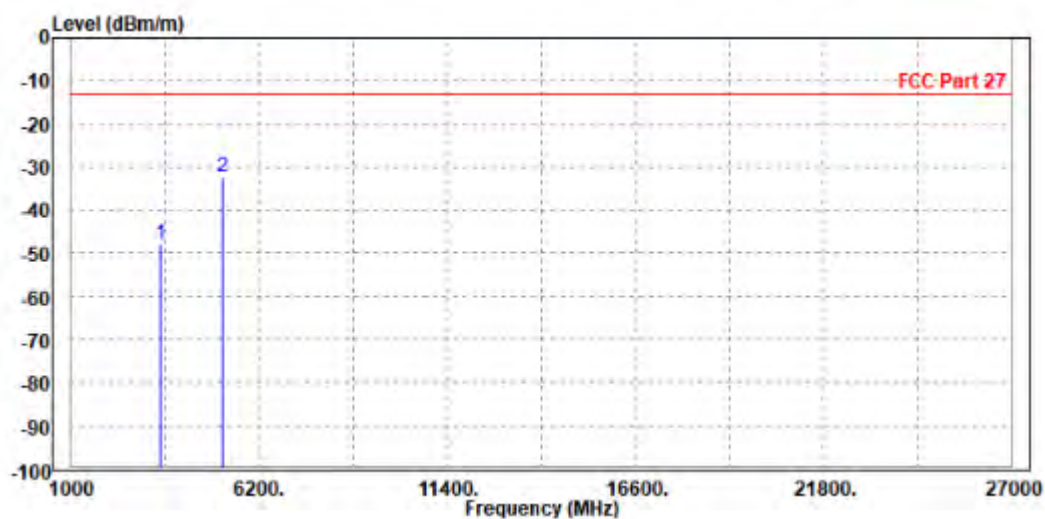
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20175 | FREQUENCY 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    | 3465.000 | -47.52 | -56.10     | -13.00     | -34.52     | 8.58   | Peak   | Horizontal |
| 2 PP | 5186.000 | -32.68 | -41.76     | -13.00     | -19.68     | 9.08   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20175 | 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    | 3470.000 | -47.87 | -57.03     | -13.00     | -34.87     | 9.16   | Peak   | Vertical  |
| 2 PP | 5197.500 | -32.21 | -42.03     | -13.00     | -19.21     | 9.82   | Peak   | Vertical  |





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VERITAS

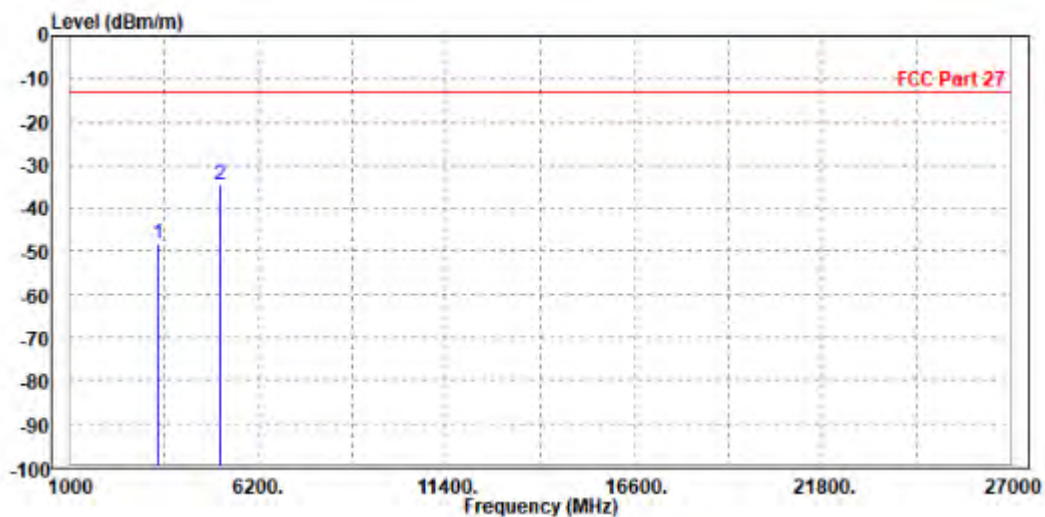
Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 20MHz / QPSK

CH 20050

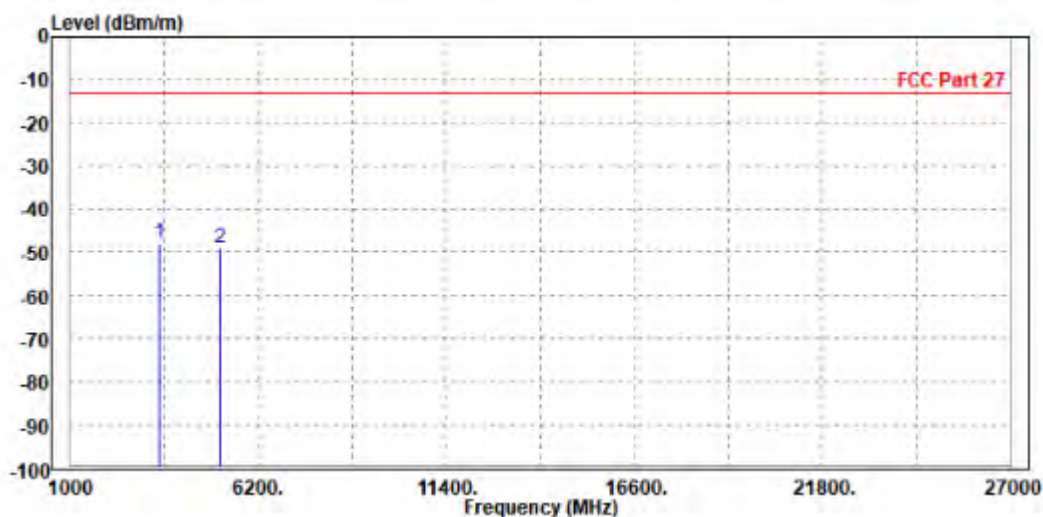
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20050 | FREQUENCY 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  | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|--------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m  | dB         | dB/m   |        |            |
| 1    | 3440.000 | -48.19 | -56.77     | -13.00 | -35.19     | 8.58   | Peak   | Horizontal |
| 2 PP | 5160.000 | -34.77 | -43.77     | -13.00 | -21.77     | 9.00   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20050 | 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 | 3444.000 | -47.78 | -56.92     | -13.00     | -34.78     | 9.14   | Peak   | Vertical  |
| 2    | 5160.000 | -49.11 | -58.95     | -13.00     | -36.11     | 9.84   | Peak   | Vertical  |





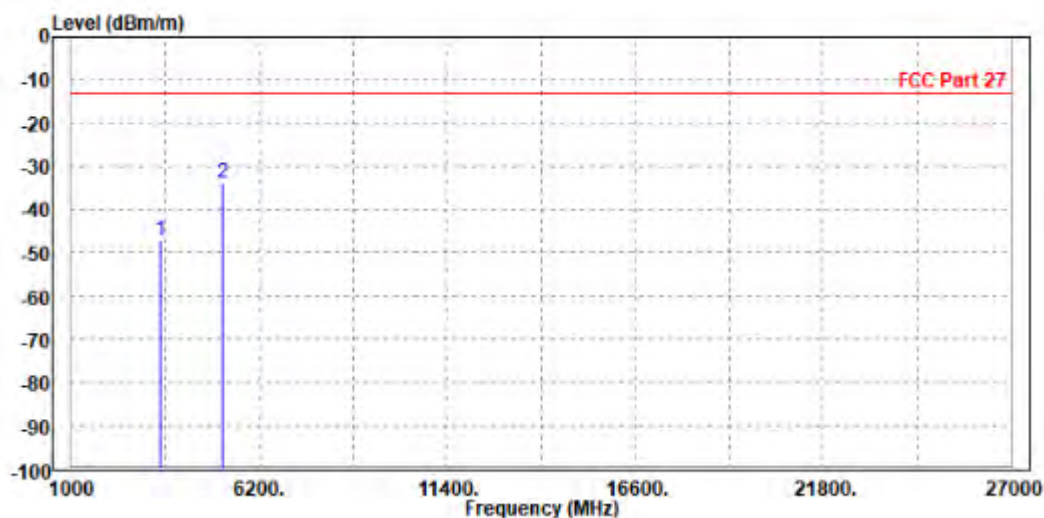
**BUREAU  
VERITAS**

Test Report No.: W7L-P22030026-5RF05

CH 20175

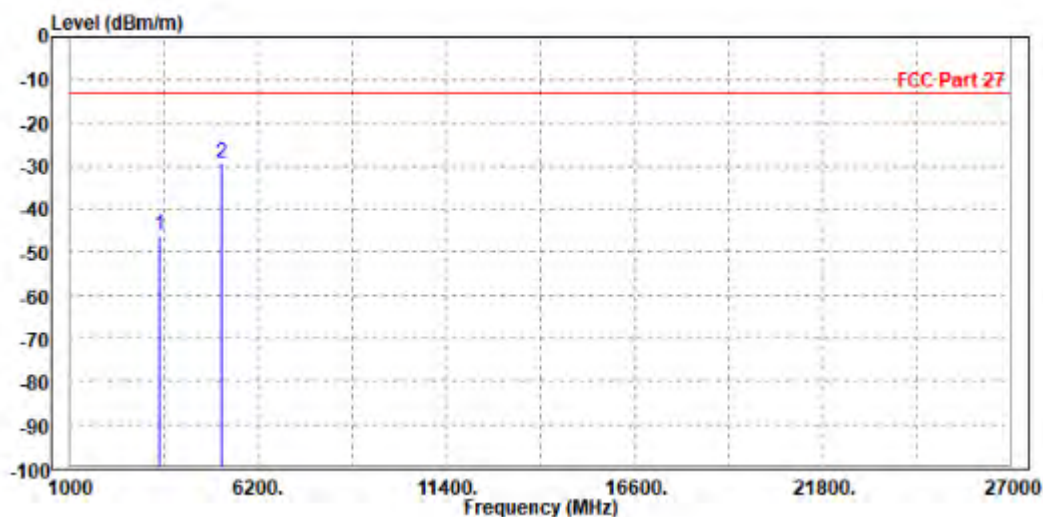
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20175 | FREQUENCY 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 | 3470.000    | -47.30 | -55.88     | -13.00     | -34.30     | 8.58   | Peak   | Horizontal |
| 2 | PP 5197.500 | -33.79 | -42.91     | -13.00     | -20.79     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20175 | 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    | 3470.000 | -46.18 | -55.34     | -13.00     | -33.18     | 9.16   | Peak   | Vertical  |
| 2 PP | 5197.500 | -29.23 | -39.05     | -13.00     | -16.23     | 9.82   | Peak   | Vertical  |





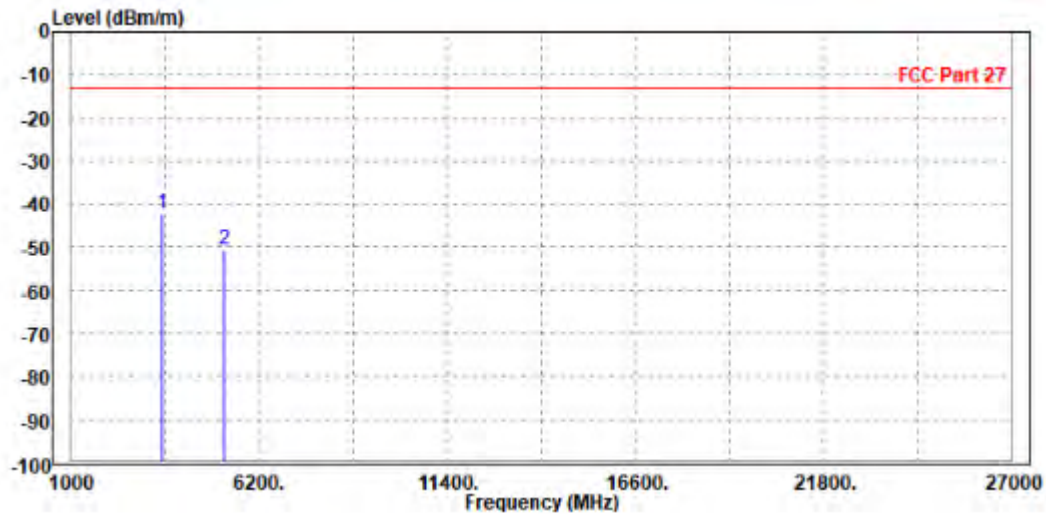
BUREAU  
VERITAS

Test Report No.: W7L-P22030026-5RF05

CH 20300

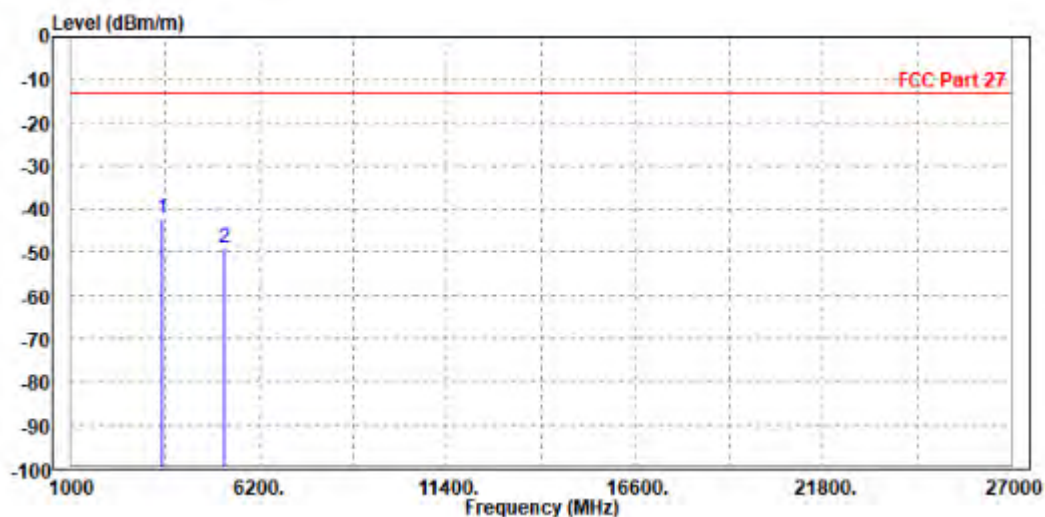
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20300 | FREQUENCY 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 3490.000 | -42.34 | -50.91     | -13.00     | -29.34     | 8.57   | Peak   | Horizontal |
| 2 | 5238.000    | -50.40 | -59.64     | -13.00     | -37.40     | 9.24   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20300 | 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 | 3496.000 | -42.18 | -51.37     | -13.00     | -29.18     | 9.19   | Peak   | Vertical  |
| 2 |    | 5235.000 | -48.90 | -58.71     | -13.00     | -35.90     | 9.81   | Peak   | Vertical  |



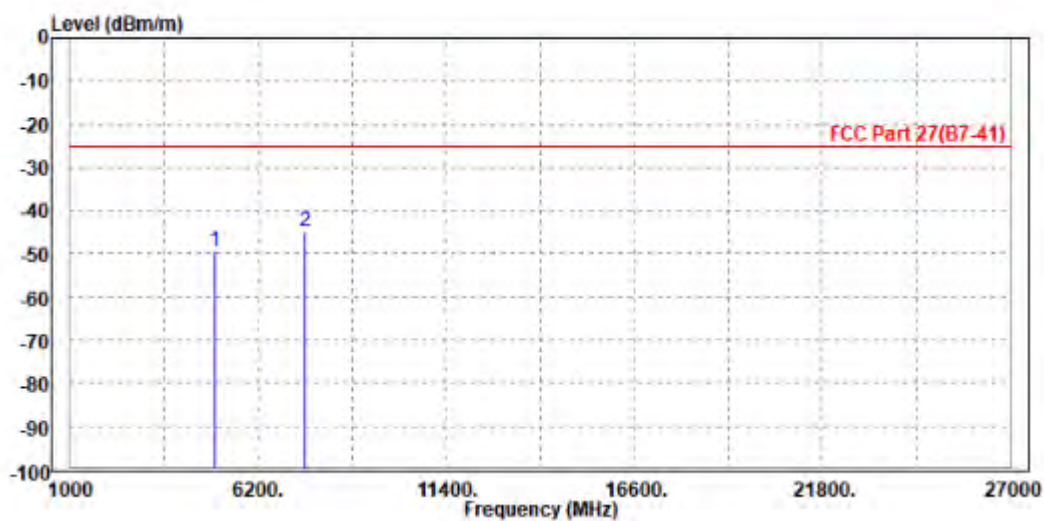


Test Report No.: W7L-P22030026-5RF05

LTE Band 7  
CHANNEL BANDWIDTH: 5MHz / QPSK  
CH 20775

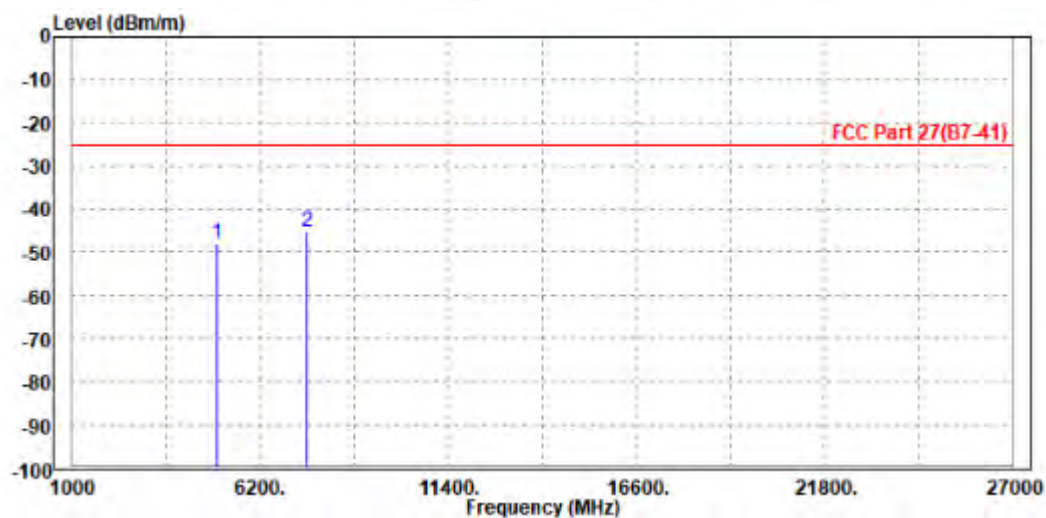
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 20775 | FREQUENCY 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    | 5004.000 | -49.48 | -58.02     | -25.00     | -24.48     | 8.54   | Peak   | Horizontal |
| 2 PP | 7507.500 | -44.74 | -56.10     | -25.00     | -19.74     | 11.36  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 20775 | 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 | -47.72 | -57.62     | -25.00     | -22.72     | 9.90   | Peak   | Vertical  |
| 2 PP | 7507.500 | -45.37 | -58.11     | -25.00     | -20.37     | 12.74  | Peak   | Vertical  |





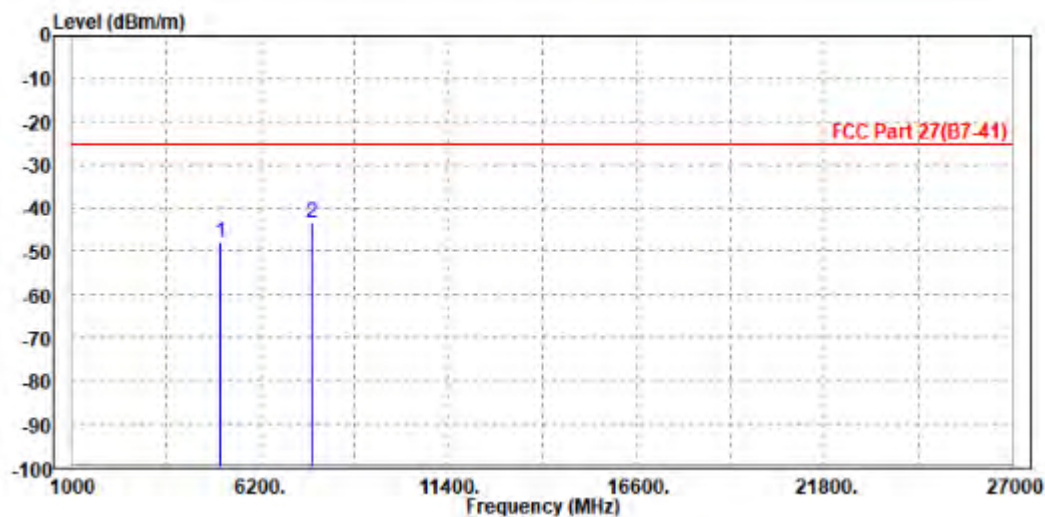
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VERITAS

Test Report No.: W7L-P22030026-5RF05

CH 21100

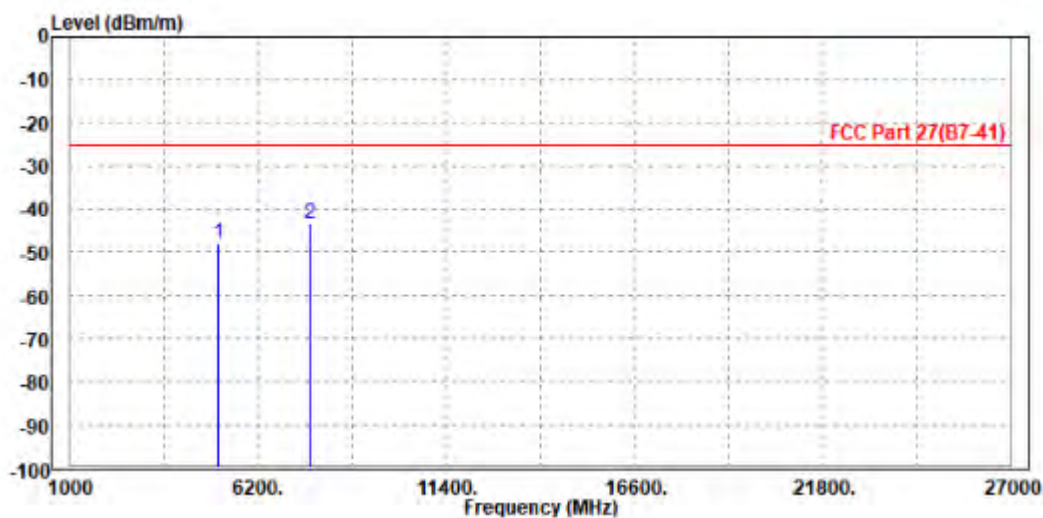
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21100 | FREQUENCY 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    | 5082.000 | -47.95 | -56.72     | -25.00     | -22.95     | 8.77   | Peak   | Horizontal |
| 2 PP | 7605.000 | -43.28 | -54.68     | -25.00     | -18.28     | 11.40  | 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 | -47.73 | -57.60     | -25.00     | -22.73     | 9.87   | Peak   | Vertical  |
| 2 PP | 7605.000 | -43.34 | -56.12     | -25.00     | -18.34     | 12.78  | Peak   | Vertical  |





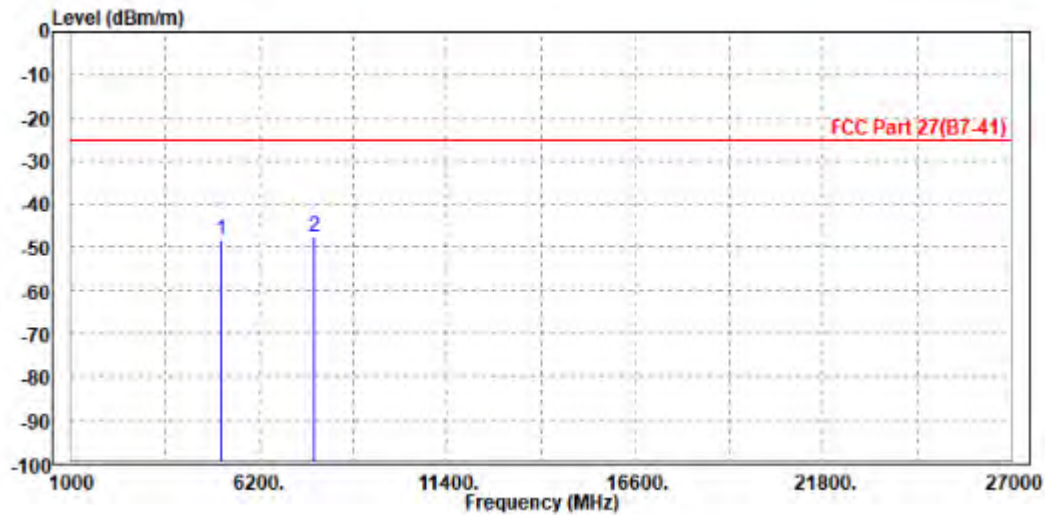
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VERITAS**

Test Report No.: W7L-P22030026-5RF05

CH 21425

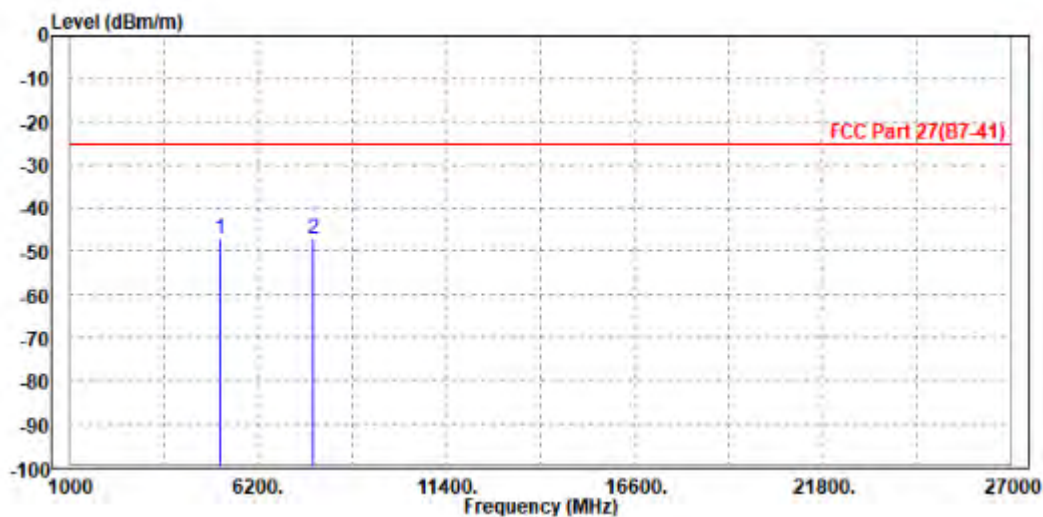
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21425 | FREQUENCY 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    | 5134.000 | -48.28 | -57.21     | -25.00     | -23.28     | 8.93   | Peak   | Horizontal |
| 2 PP | 7702.500 | -47.65 | -59.09     | -25.00     | -22.65     | 11.44  | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 21425 | 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 | -47.28 | -57.13     | -25.00     | -22.28     | 9.85   | Peak   | Vertical  |
| 2 PP | 7702.500 | -47.27 | -60.09     | -25.00     | -22.27     | 12.82  | Peak   | Vertical  |



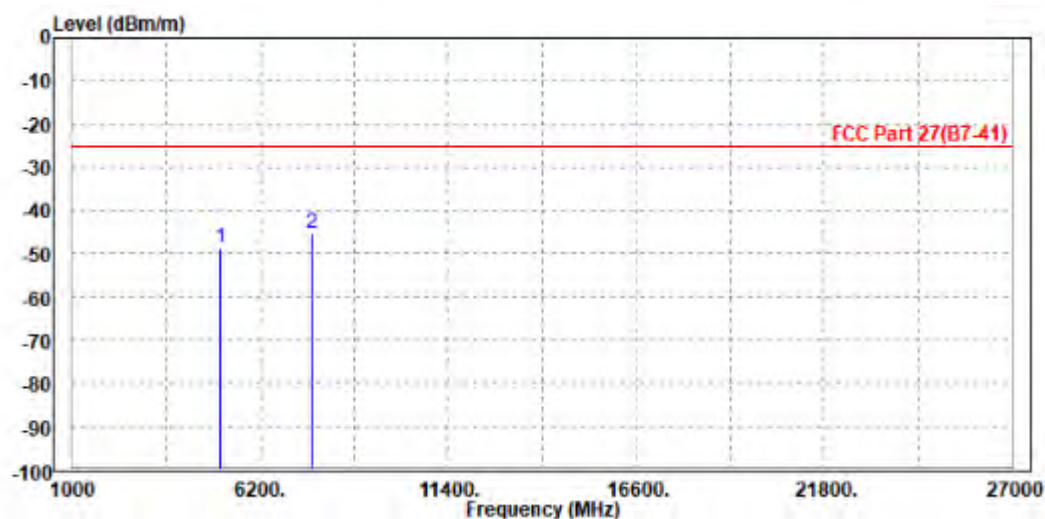


Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 10MHz / QPSK

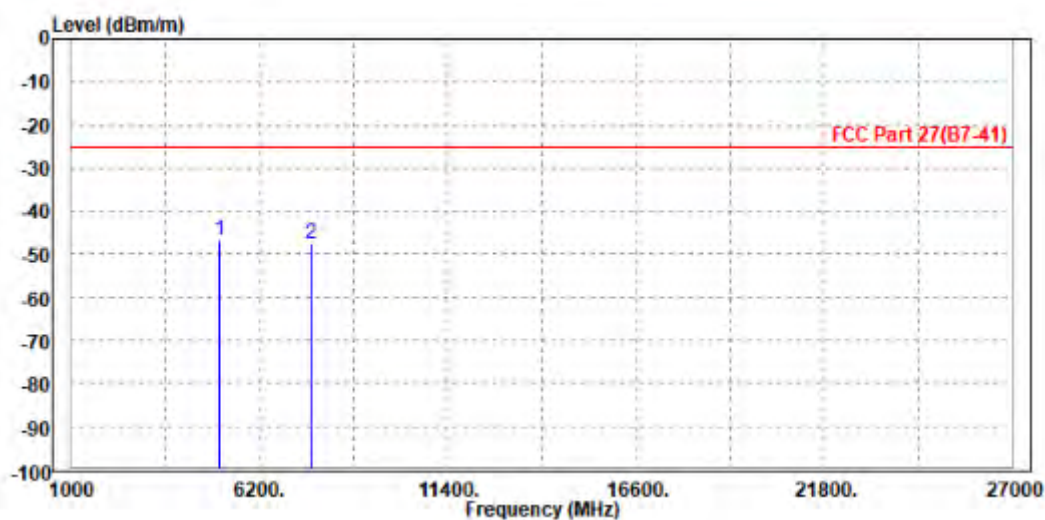
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 21100 | FREQUENCY 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    | 5082.000 | -48.74 | -57.51     | -25.00     | -23.74     | 8.77   | Peak   | Horizontal |
| 2 PP | 7605.000 | -45.14 | -56.54     | -25.00     | -20.14     | 11.40  | 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 | -46.86 | -56.73     | -25.00     | -21.86     | 9.87   | Peak   | Vertical  |
| 2 | 7605.000    | -47.47 | -60.25     | -25.00     | -22.47     | 12.78  | Peak   | Vertical  |





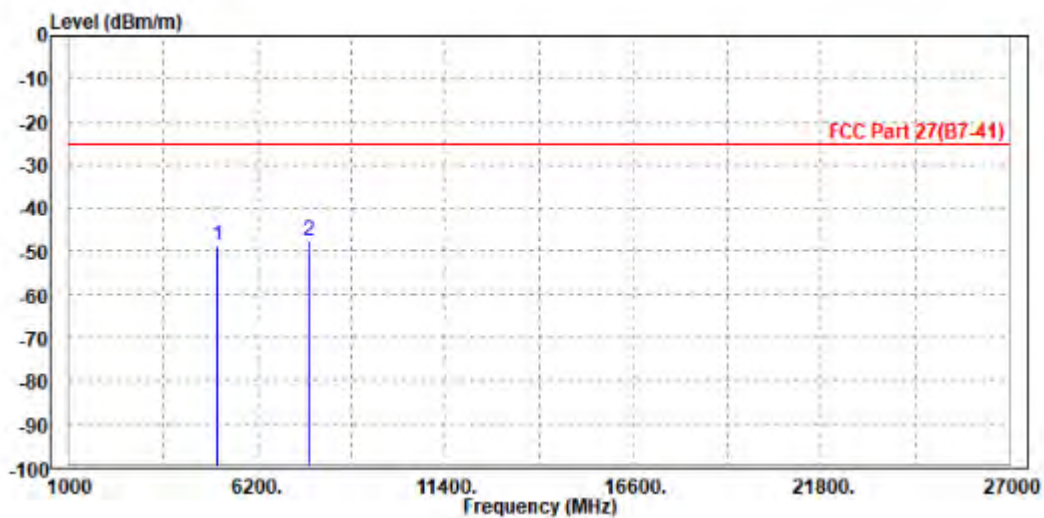
BUREAU  
VERITAS

Test Report No.: W7L-P22030026-5RF05

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    | 5082.000 | -48.73 | -57.50     | -25.00     | -23.73     | 8.77   | Peak   | Horizontal |
| 2 PP | 7605.000 | -47.66 | -59.06     | -25.00     | -22.66     | 11.40  | Peak   | Horizontal |

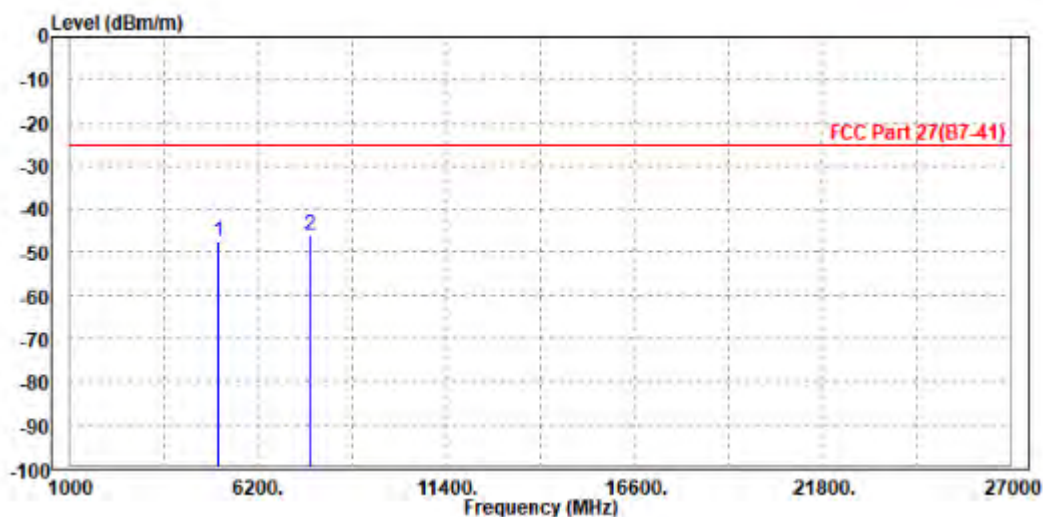




Test Report No.: W7L-P22030026-5RF05

|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| 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 | -47.43 | -57.30     | -25.00     | -22.43     | 9.87   | Peak   | Vertical  |
| 2 PP | 7605.000 | -46.17 | -58.95     | -25.00     | -21.17     | 12.78  | Peak   | Vertical  |





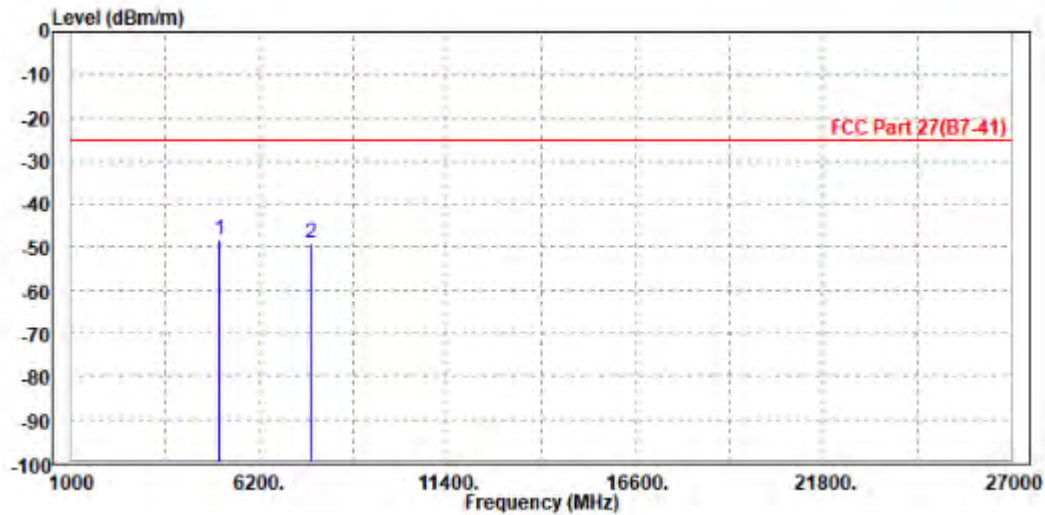
**BUREAU  
VERITAS**

Test Report No.: W7L-P22030026-5RF05

**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 | -48.41 | -57.18     | -25.00     | -23.41     | 8.77   | Peak   | Horizontal |
| 2 | 7605.000    | -49.11 | -60.51     | -25.00     | -24.11     | 11.40  | Peak   | Horizontal |

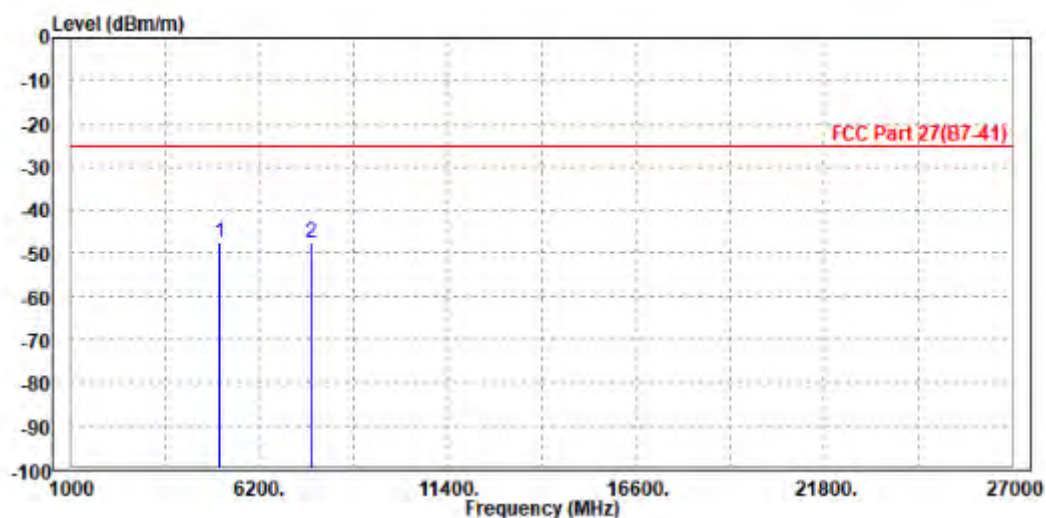




Test Report No.: W7L-P22030026-5RF05

|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| 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 | -47.36 | -57.23     | -25.00     | -22.36     | 9.87   | Peak   | Vertical  |
| 2 |    | 7605.000 | -47.45 | -60.23     | -25.00     | -22.45     | 12.78  | Peak   | Vertical  |





Test Report No.: W7L-P22030026-5RF05

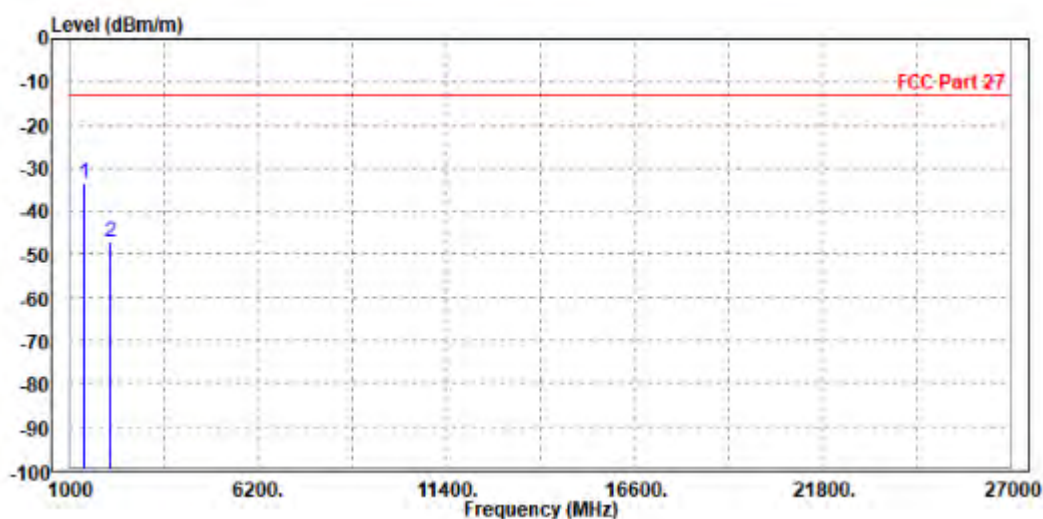
LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH23017

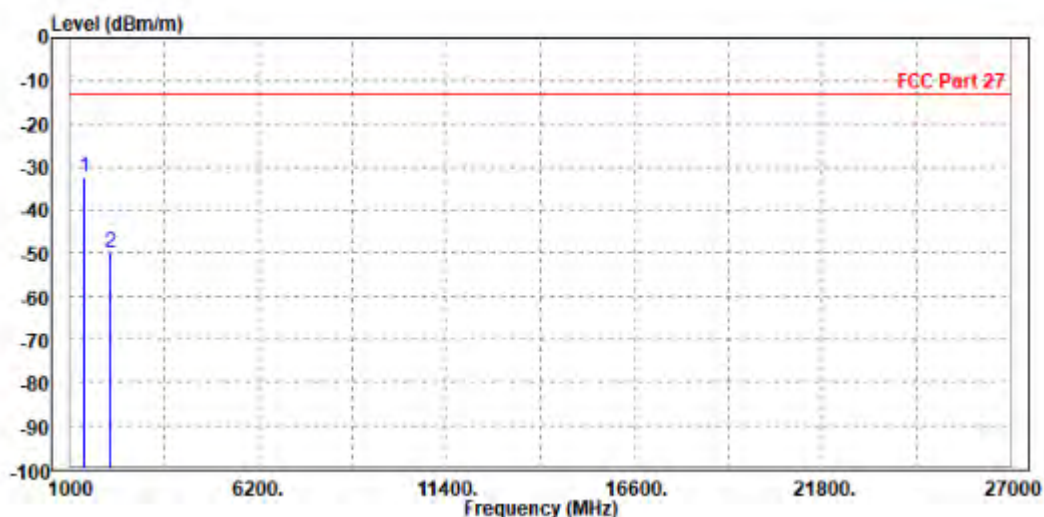
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23017 | FREQUENCY 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 | 1390.000 | -33.59 | -34.56     | -13.00     | -20.59     | 0.97   | Peak   | Horizontal |
| 2 |    | 2099.100 | -47.23 | -54.88     | -13.00     | -34.23     | 7.65   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23017 | 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 |                  |                 |               |

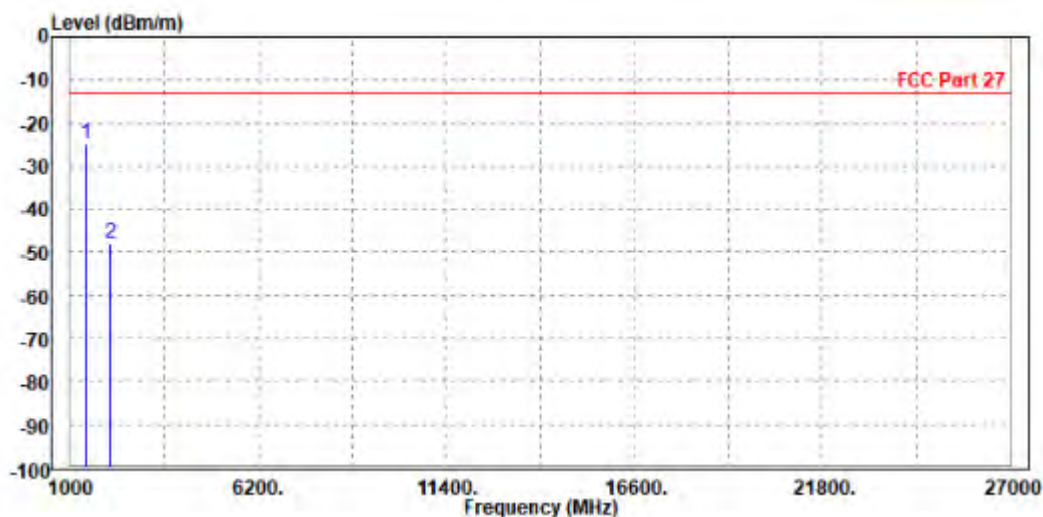
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 1390.000 | -32.22 | -33.80     | -13.00     | -19.22     | 1.58   | Peak   | Vertical  |
| 2    | 2099.100 | -49.88 | -56.54     | -13.00     | -36.88     | 6.66   | Peak   | Vertical  |



CH23095

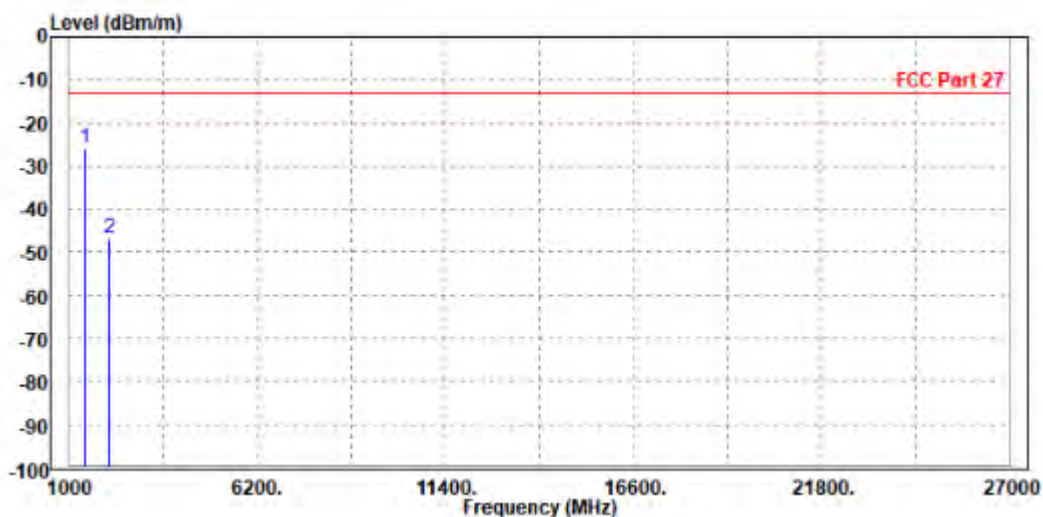
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY 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 | 1415.000 | -24.80 | -25.87     | -13.00     | -11.80     | 1.07   | Peak   | Horizontal |
| 2 |    | 2118.000 | -47.76 | -55.43     | -13.00     | -34.76     | 7.67   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | 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 |                  |                 |               |

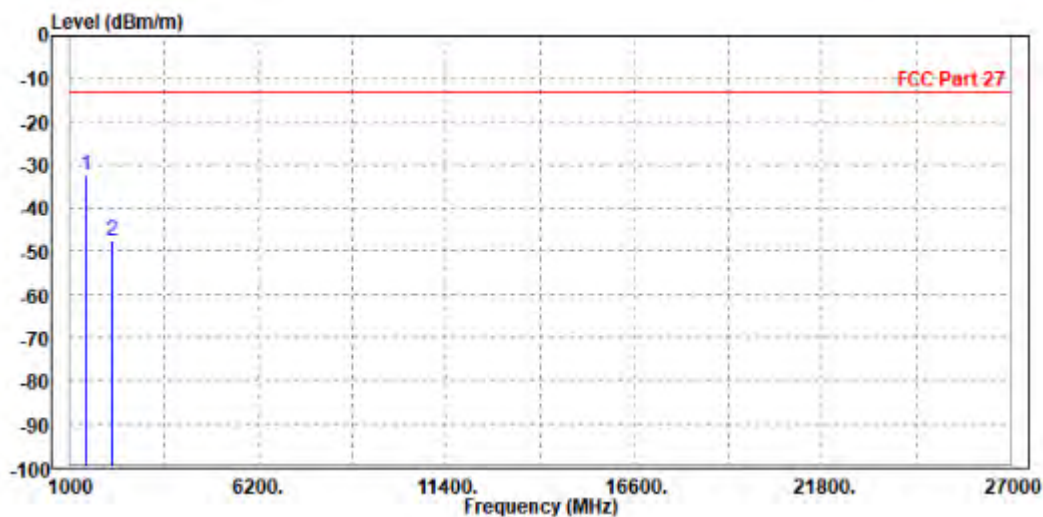
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 1416.000 | -25.80 | -27.49     | -13.00     | -12.80     | 1.69   | Peak   | Vertical  |
| 2 |    | 2122.500 | -46.85 | -53.54     | -13.00     | -33.85     | 6.69   | Peak   | Vertical  |



CH23173

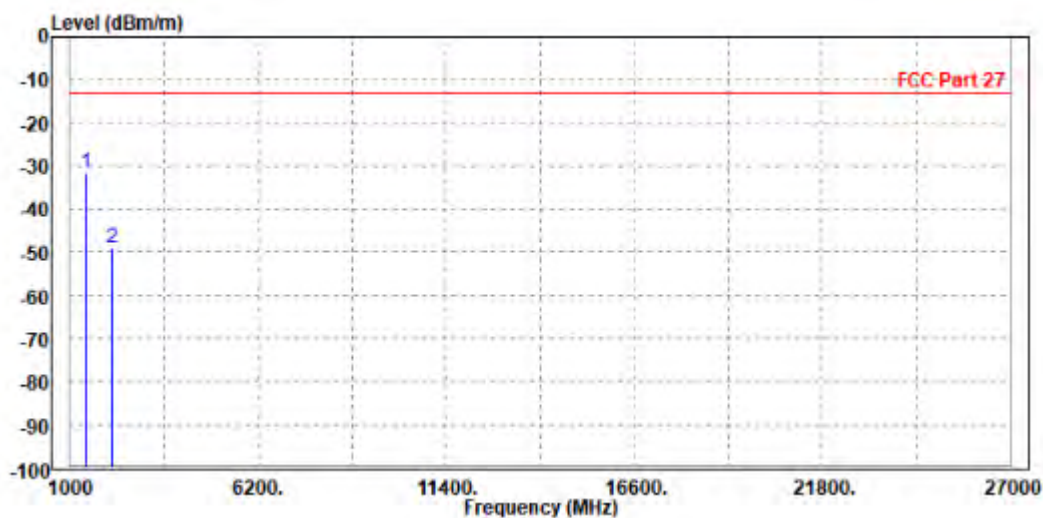
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23173 | FREQUENCY 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 | 1442.000 | -32.16 | -33.35     | -13.00     | -19.16     | 1.19   | Peak   | Horizontal |
| 2    | 2145.900 | -47.37 | -55.06     | -13.00     | -34.37     | 7.69   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23173 | 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 1442.000 | -31.38 | -33.18     | -13.00     | -18.38     | 1.80   | Peak   | Vertical  |
| 2 | 2145.900    | -48.96 | -55.67     | -13.00     | -35.96     | 6.71   | Peak   | Vertical  |





BUREAU  
VERITAS

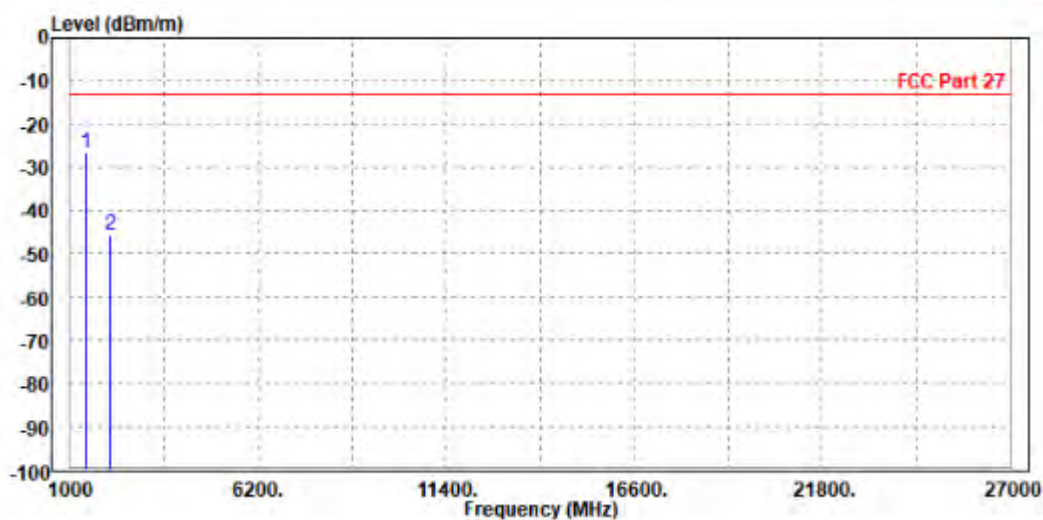
Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 3MHz / QPSK

CH23095

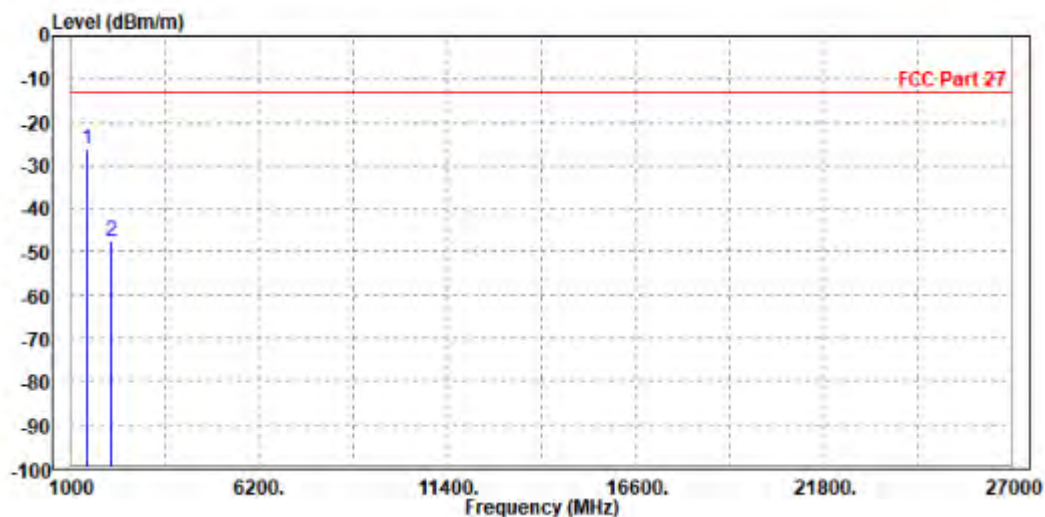
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| 04/20/2025                                          |                  |                 |               |
| MODE                                                | TX channel 23095 | 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 | 1416.000 | -26.70 | -27.78     | -13.00     | -13.70     | 1.08   | Peak   | Horizontal |
| 2 |    | 2122.500 | -45.46 | -53.13     | -13.00     | -32.46     | 7.67   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | 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 |                  |                 |               |

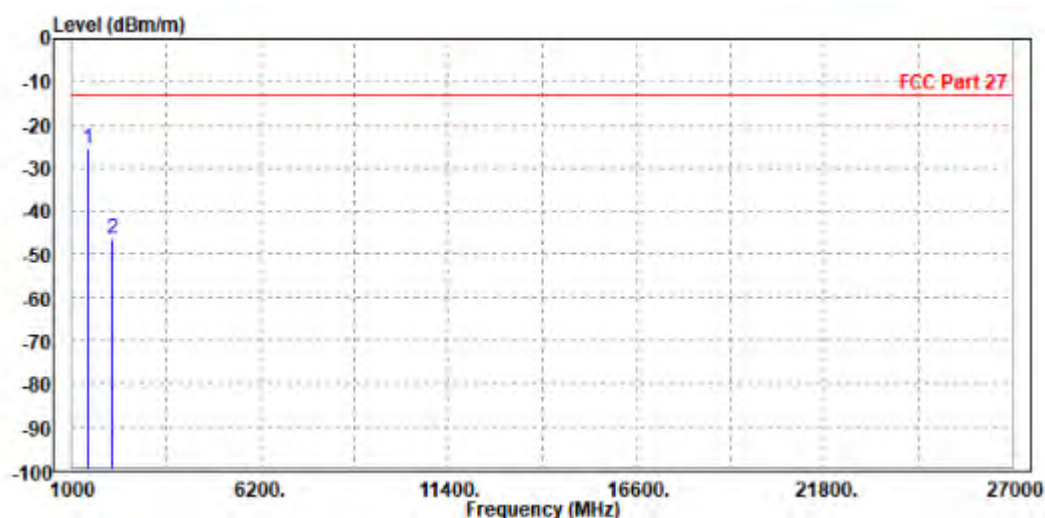
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 1415.000 | -26.41 | -28.10     | -13.00     | -13.41     | 1.69   | Peak   | Vertical  |
| 2 |    | 2118.000 | -47.64 | -54.32     | -13.00     | -34.64     | 6.68   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 5MHz / QPSK**

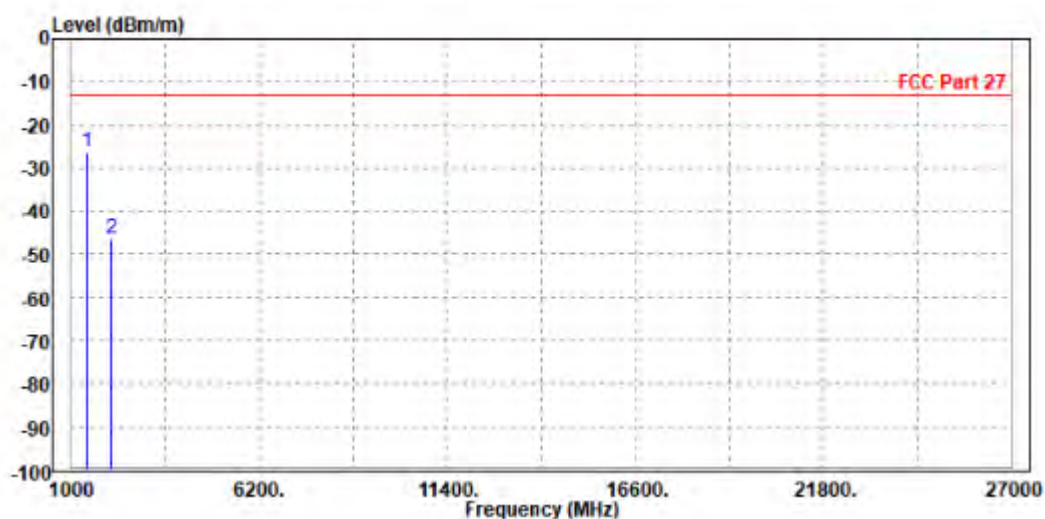
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY 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 | 1415.000 | -25.38 | -26.45     | -13.00     | -12.38     | 1.07   | Peak   | Horizontal |
| 2 |    | 2118.000 | -46.40 | -54.07     | -13.00     | -33.40     | 7.67   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | 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 |                  |                 |               |

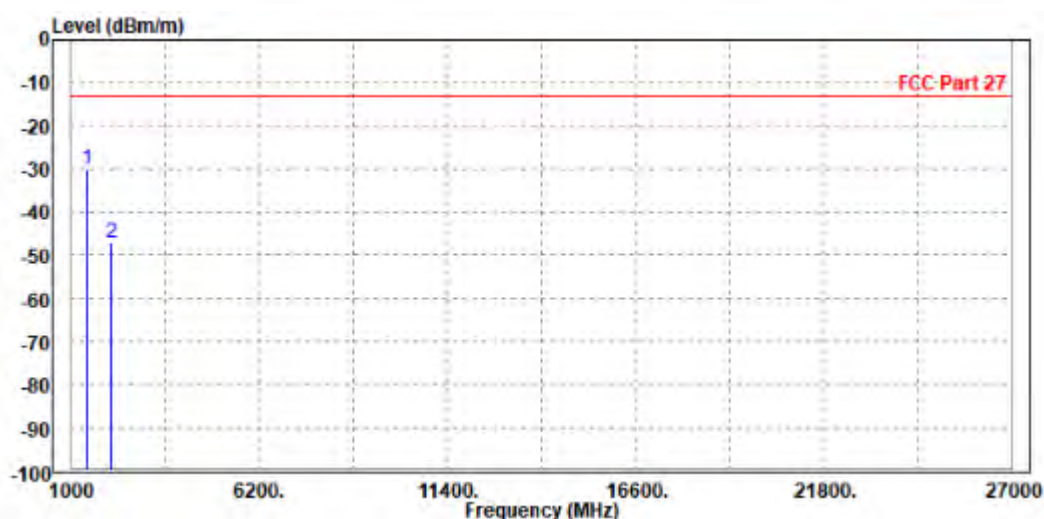
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP 1416.000 | -26.20 | -27.89     | -13.00     | -13.20     | 1.69   | Peak   | Vertical  |
| 2 | 2122.500    | -46.43 | -53.12     | -13.00     | -33.43     | 6.69   | Peak   | Vertical  |



CHANNEL BANDWIDTH: 10MHz / QPSK

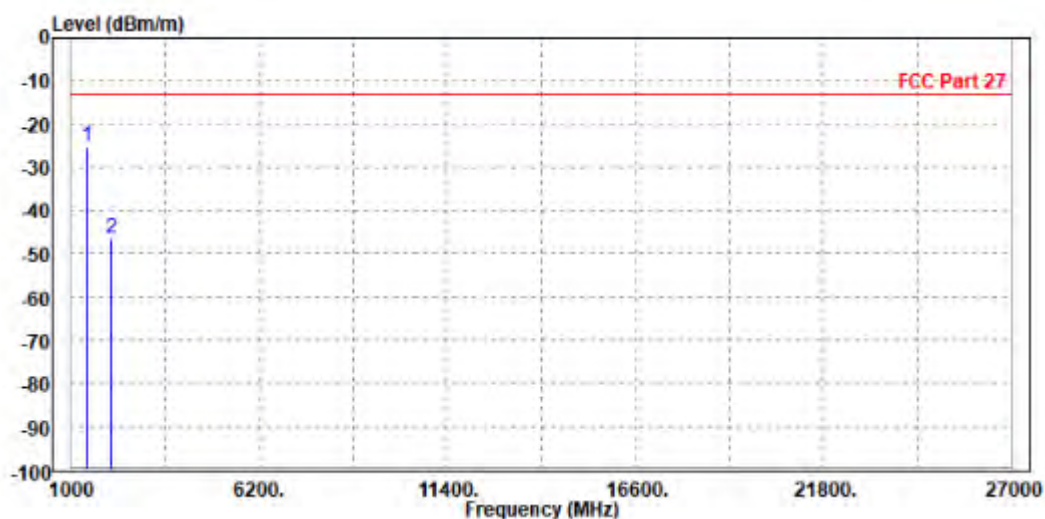
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY 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 | 1416.000 | -30.13 | -31.21     | -13.00     | -17.13     | 1.08   | Peak   | Horizontal |
| 2    | 2122.500 | -47.15 | -54.82     | -13.00     | -34.15     | 7.67   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | 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 | 1415.000 | -25.20 | -26.89     | -13.00     | -12.20     | 1.69   | Peak   | Vertical  |
| 2 |    | 2118.000 | -46.26 | -52.94     | -13.00     | -33.26     | 6.68   | Peak   | Vertical  |



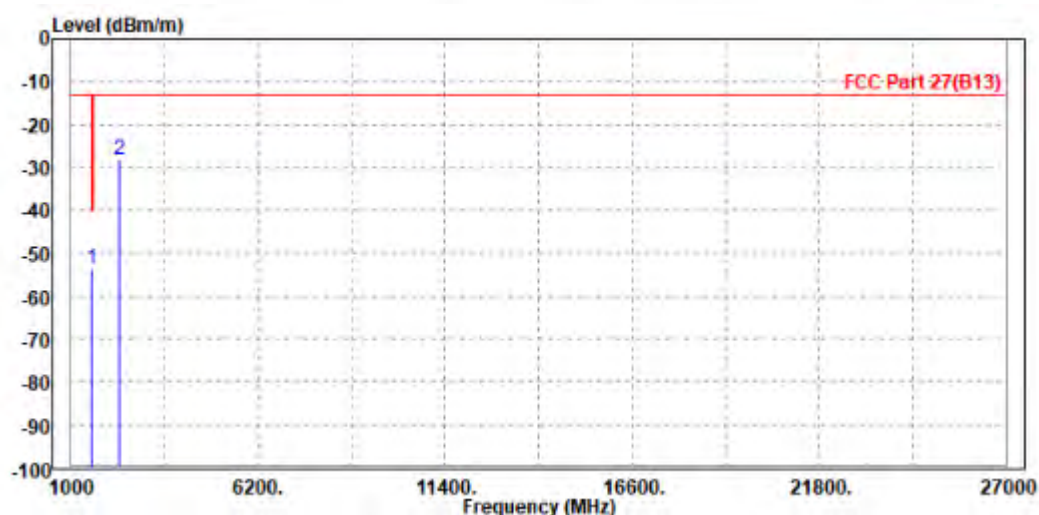
**LTE B13**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

**CH23205**

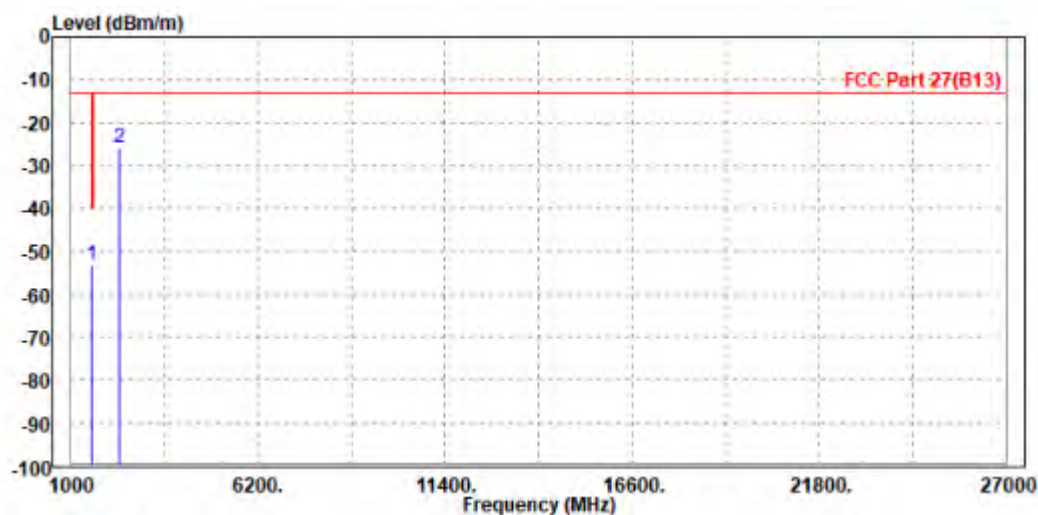
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23205 | FREQUENCY 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 | 1559.000 | -53.59 | -55.76     | -40.00     | -13.59     | 2.17   | Peak   | Horizontal |
| 2 |    | 2338.500 | -28.05 | -35.94     | -13.00     | -15.05     | 7.89   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23205 | 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 |                  |                 |               |

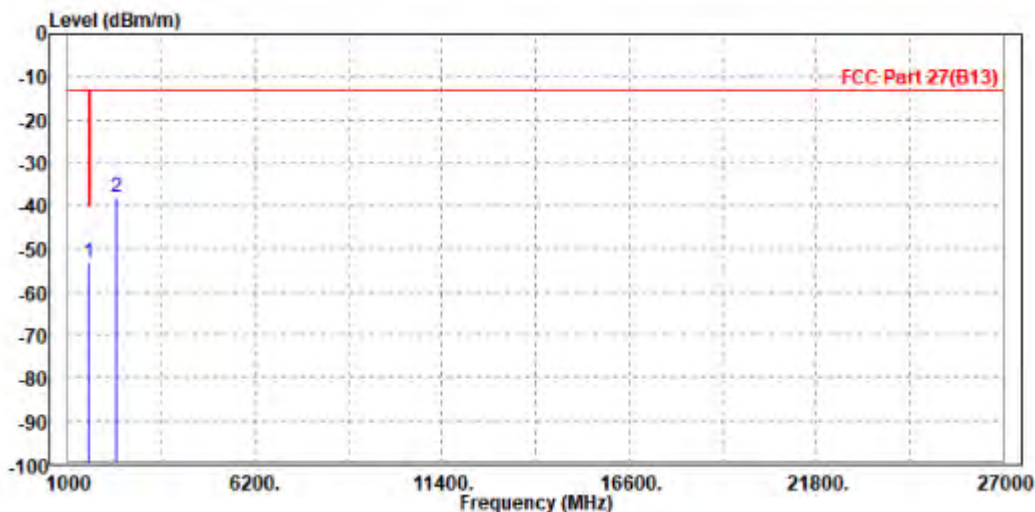
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 1572.000 | -53.36 | -56.06     | -40.00     | -13.36     | 2.70   | Peak   | Vertical  |
| 2 PP | 2326.000 | -25.95 | -32.84     | -13.00     | -12.95     | 6.89   | Peak   | Vertical  |



CH23230

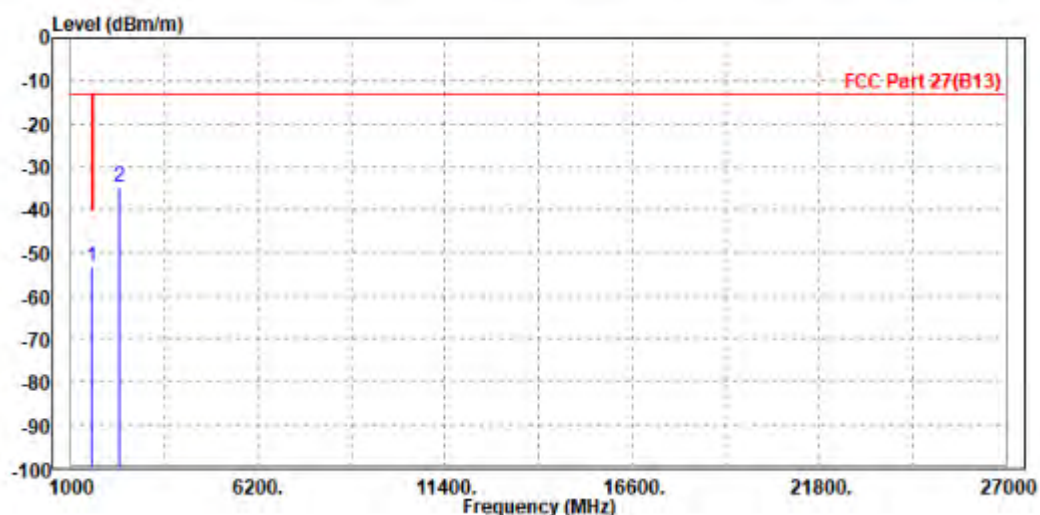
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23230 | FREQUENCY 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 | 1572.000 | -53.11 | -55.43     | -40.00     | -13.11     | 2.32   | Peak   | Horizontal |
| 2 |    | 2346.000 | -37.87 | -45.77     | -13.00     | -24.87     | 7.90   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23230 | 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 |                  |                 |               |

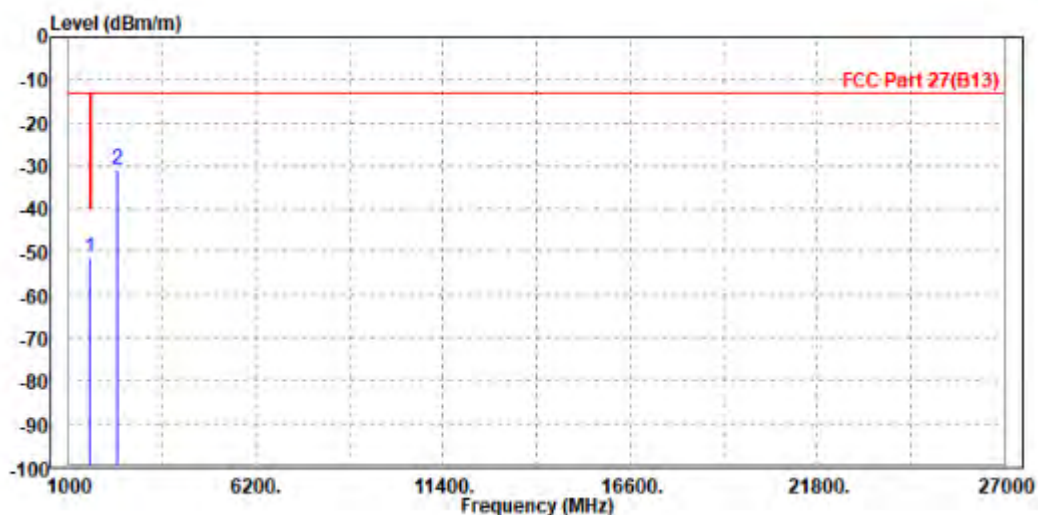
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 1572.000 | -53.39 | -56.09     | -40.00     | -13.39     | 2.70   | Peak   | Vertical  |
| 2 |    | 2346.000 | -34.56 | -41.47     | -13.00     | -21.56     | 6.91   | Peak   | Vertical  |



CH23255

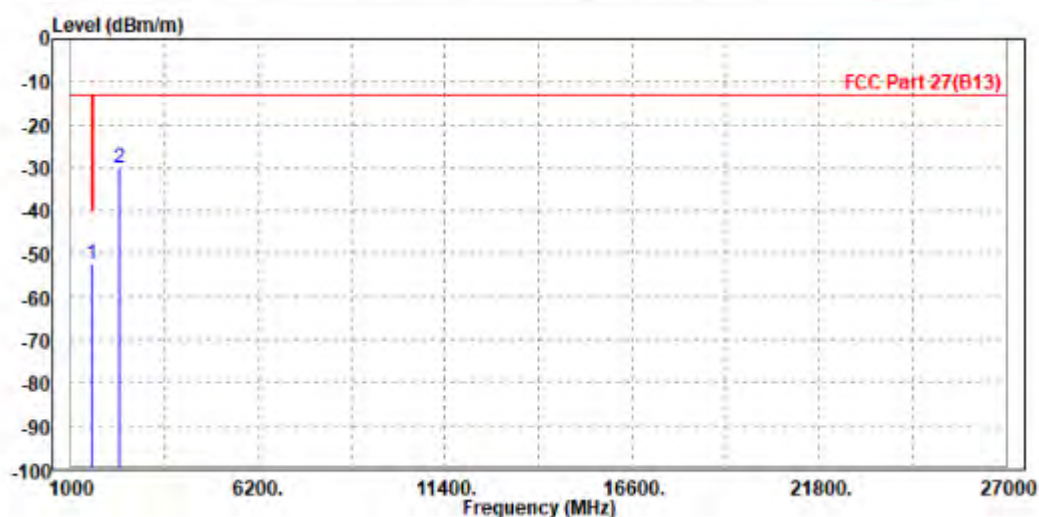
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23255 | FREQUENCY 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 | 1572.000 | -51.38 | -53.70     | -40.00     | -11.38     | 2.32   | Peak   | Horizontal |
| 2 |    | 2353.500 | -30.67 | -38.57     | -13.00     | -17.67     | 7.90   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23255 | 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 |                  |                 |               |

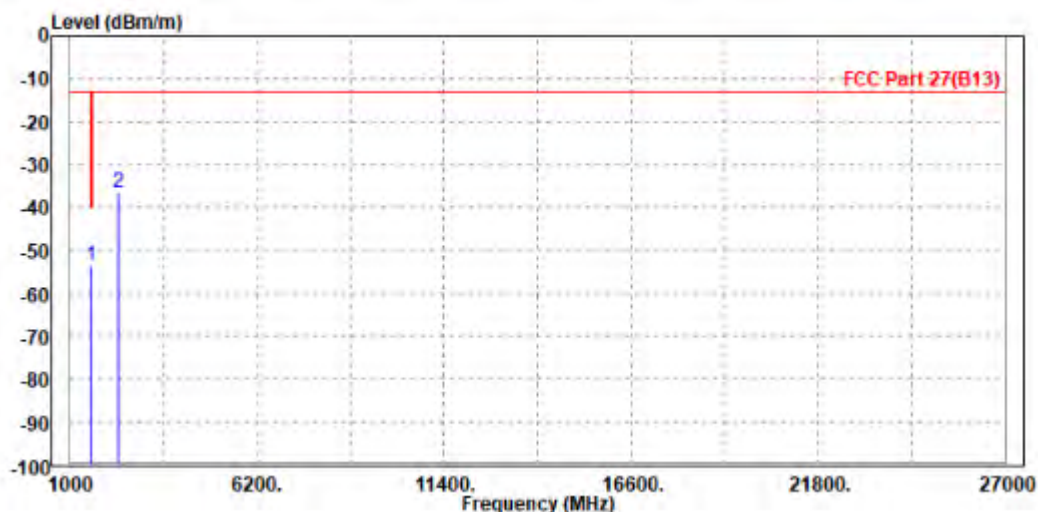
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 1569.000 | -52.49 | -55.16     | -40.00     | -12.49     | 2.67   | Peak   | Vertical  |
| 2 |    | 2353.500 | -29.98 | -36.90     | -13.00     | -16.98     | 6.92   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 10MHz /QPSK**

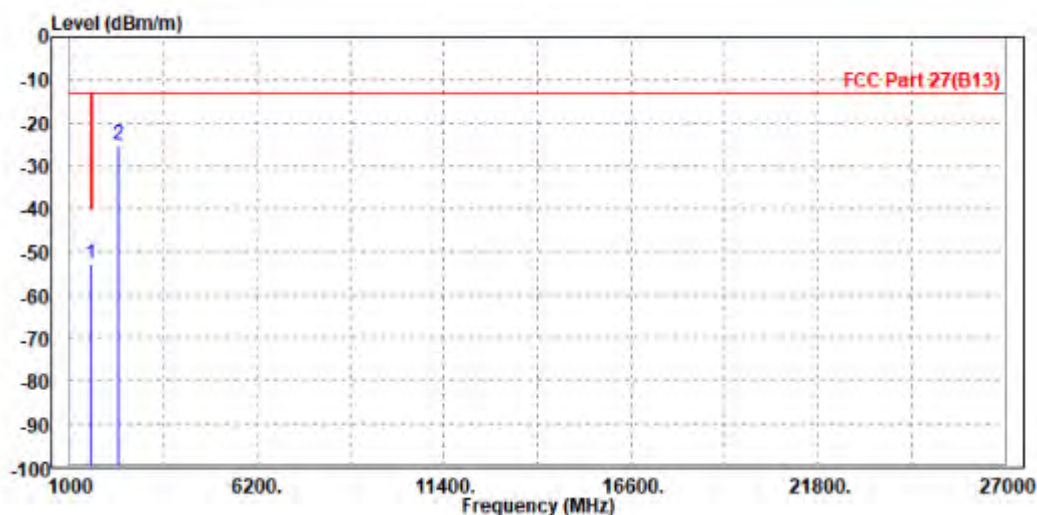
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23230 | FREQUENCY 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 | 1572.000 | -53.74 | -56.06     | -40.00     | -13.74     | 2.32   | Peak   | Horizontal |
| 2 |    | 2346.000 | -36.32 | -44.22     | -13.00     | -23.32     | 7.90   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23230 | 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    | 1572.000 | -53.04 | -55.74     | -40.00     | -13.04     | 2.70   | Peak   | Vertical  |
| 2 PP | 2346.000 | -25.03 | -31.94     | -13.00     | -12.03     | 6.91   | Peak   | Vertical  |

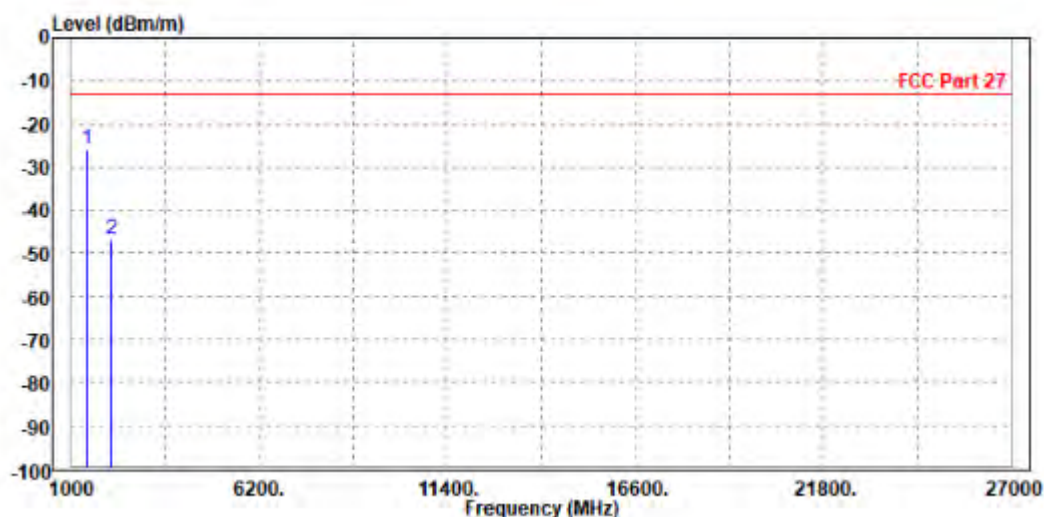


**LTE B17**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

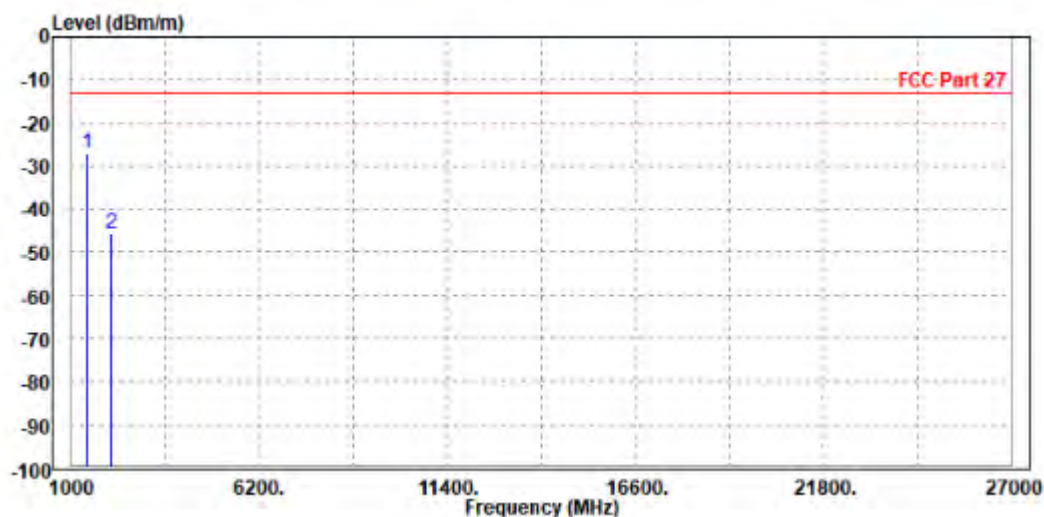
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23790 | FREQUENCY 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 | 1416.000 | -25.67 | -26.75     | -13.00     | -12.67     | 1.08   | Peak   | Horizontal |
| 2 |    | 2130.000 | -46.84 | -54.52     | -13.00     | -33.84     | 7.68   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23790 | 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 | 1416.000 | -27.06 | -28.75     | -13.00     | -14.06     | 1.69   | Peak   | Vertical  |
| 2 |    | 2130.000 | -45.48 | -52.18     | -13.00     | -32.48     | 6.70   | Peak   | Vertical  |

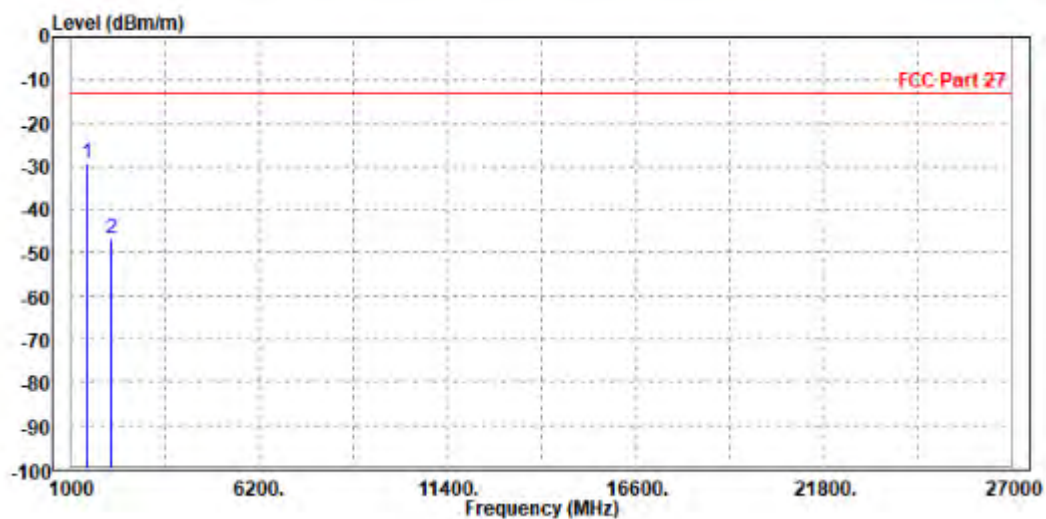


CHANNEL BANDWIDTH: 10MHz / QPSK

CH23780

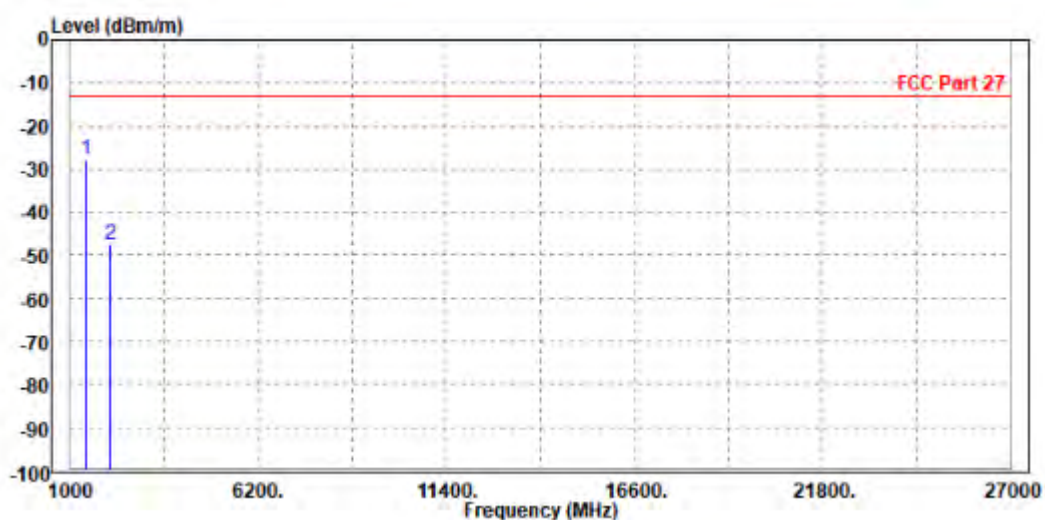
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23780 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>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<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase  |
|---|-------------|--------|---------------|---------------|---------------|--------|--------|------------|
|   | MHz         | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |            |
| 1 | PP 1416.000 | -29.21 | -30.29        | -13.00        | -16.21        | 1.08   | Peak   | Horizontal |
| 2 | 2127.000    | -46.78 | -54.45        | -13.00        | -33.78        | 7.67   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23780 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

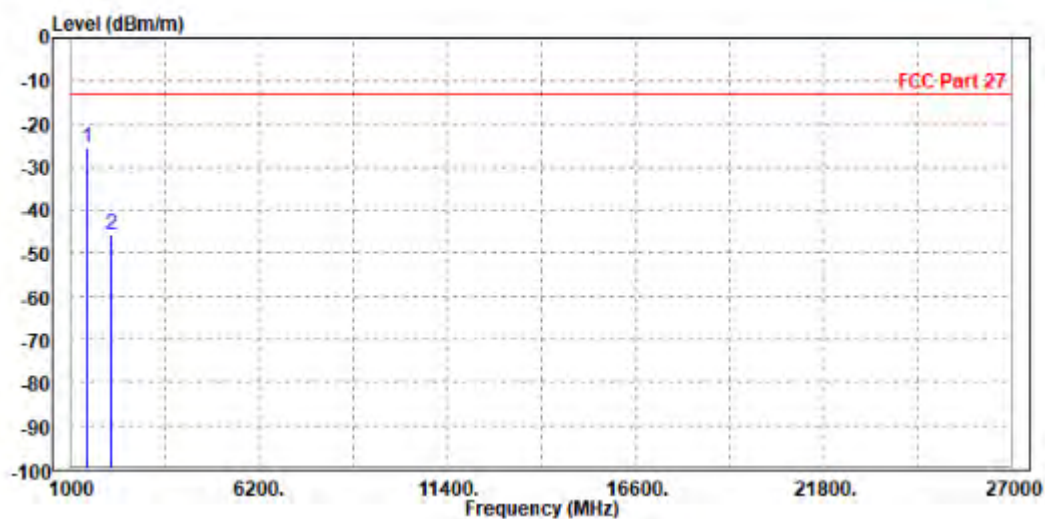
|      | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 PP | 1418.000 | -27.60 | -29.30        | -13.00        | -14.60        | 1.70   | Peak   | Vertical  |
| 2    | 2118.000 | -47.68 | -54.36        | -13.00        | -34.68        | 6.68   | Peak   | Vertical  |



CH23790

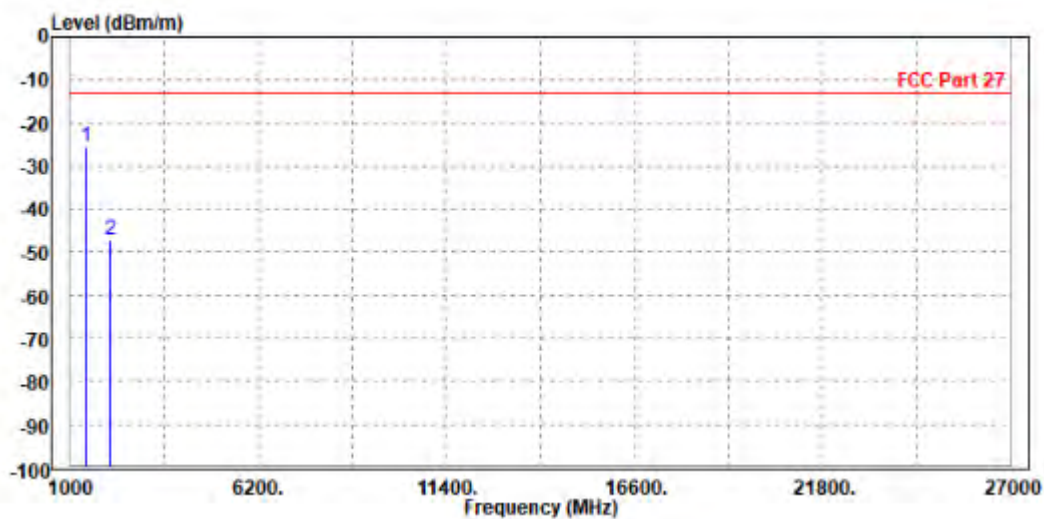
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| CH20100                                             |                  |                 |               |
| MODE                                                | TX channel 23790 | 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 | 1416.000 | -25.57 | -26.65     | -13.00     | -12.57     | 1.08   | Peak   | Horizontal |
| 2 |    | 2130.000 | -45.56 | -53.24     | -13.00     | -32.56     | 7.68   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23790 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>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<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 PP | 1420.000 | -25.53 | -27.24        | -13.00        | -12.53        | 1.71   | Peak   | Vertical  |
| 2    | 2118.000 | -47.21 | -53.89        | -13.00        | -34.21        | 6.68   | Peak   | Vertical  |

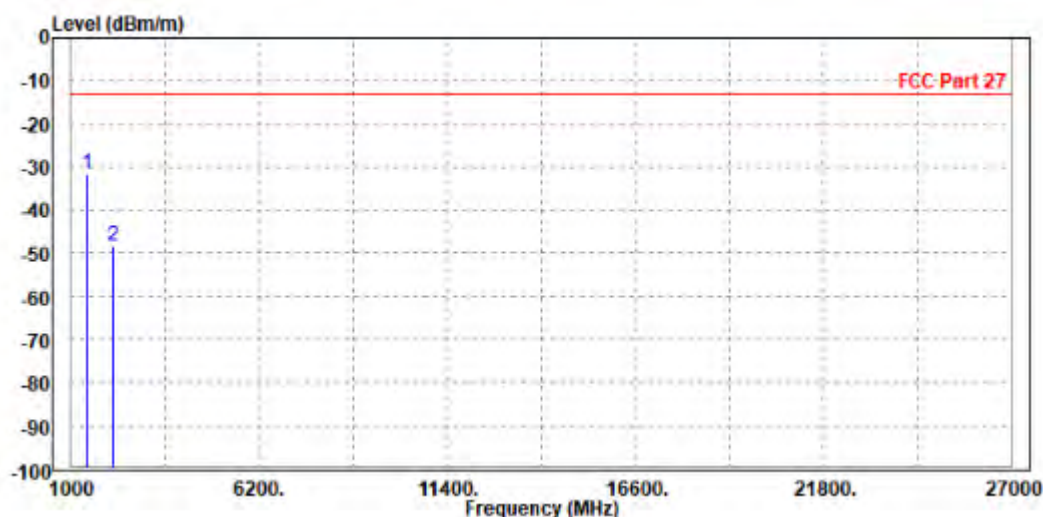


**CH23800**

CH16666

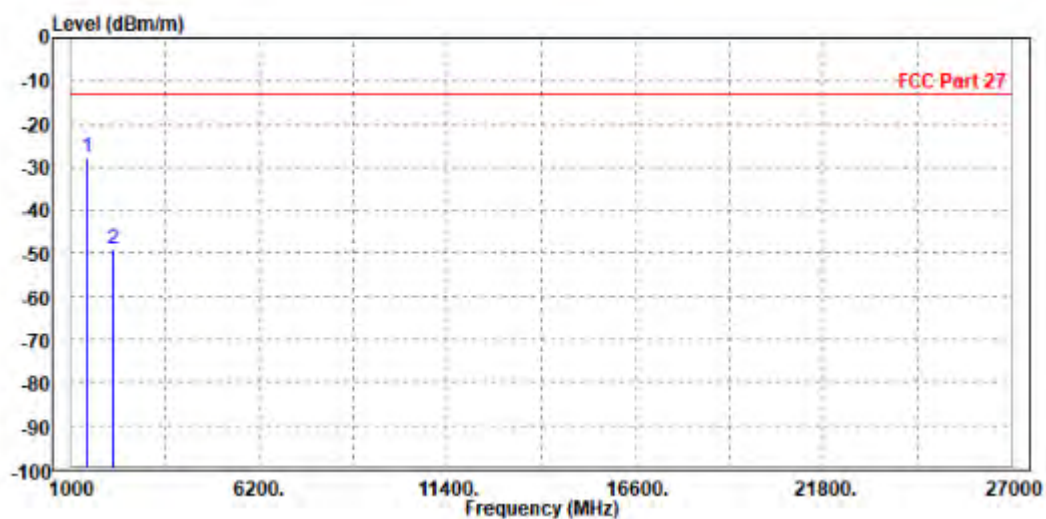
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23800 | FREQUENCY 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 | 1422.000 | -31.75 | -32.86     | -13.00     | -18.75     | 1.11   | Peak   | Horizontal |
| 2    | 2144.000 | -48.11 | -55.80     | -13.00     | -35.11     | 7.69   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23800 | 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 | 1416.000 | -27.73 | -29.42     | -13.00     | -14.73     | 1.69   | Peak   | Vertical  |
| 2 |    | 2133.000 | -48.95 | -55.65     | -13.00     | -35.95     | 6.70   | Peak   | Vertical  |



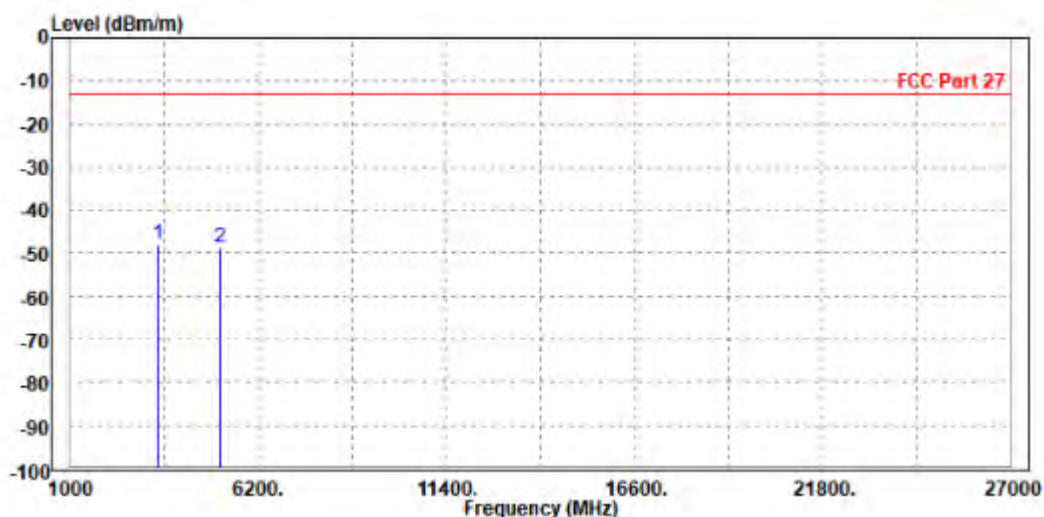
**LTE B66**

**CHANNEL BANDWIDTH: 1.4MHz / QPSK**

**CH131979**

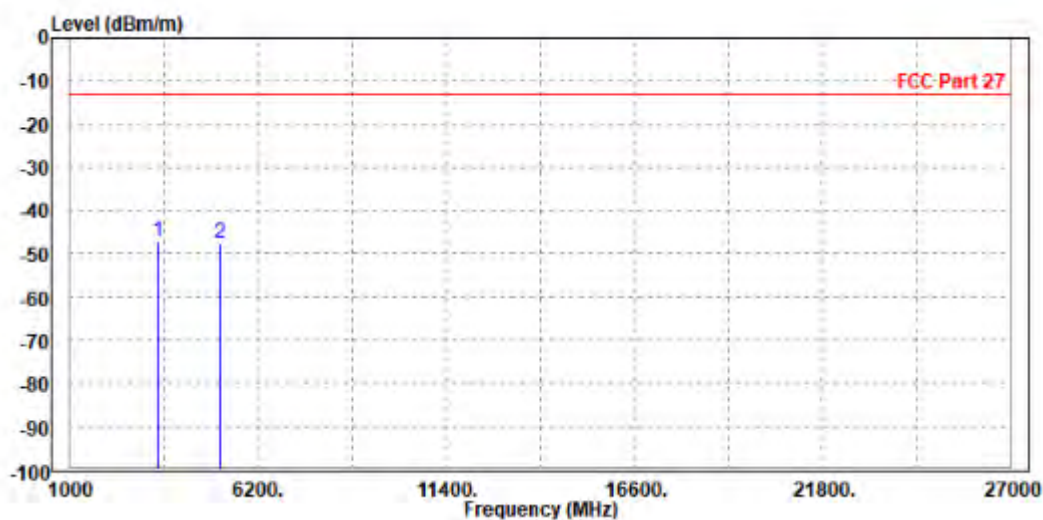
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 131979 | FREQUENCY 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 | 3418.000 | -48.01 | -56.60     | -13.00     | -35.01     | 8.59   | Peak   | Horizontal |
| 2 |    | 5132.100 | -48.67 | -57.59     | -13.00     | -35.67     | 8.92   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 131979 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu           |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

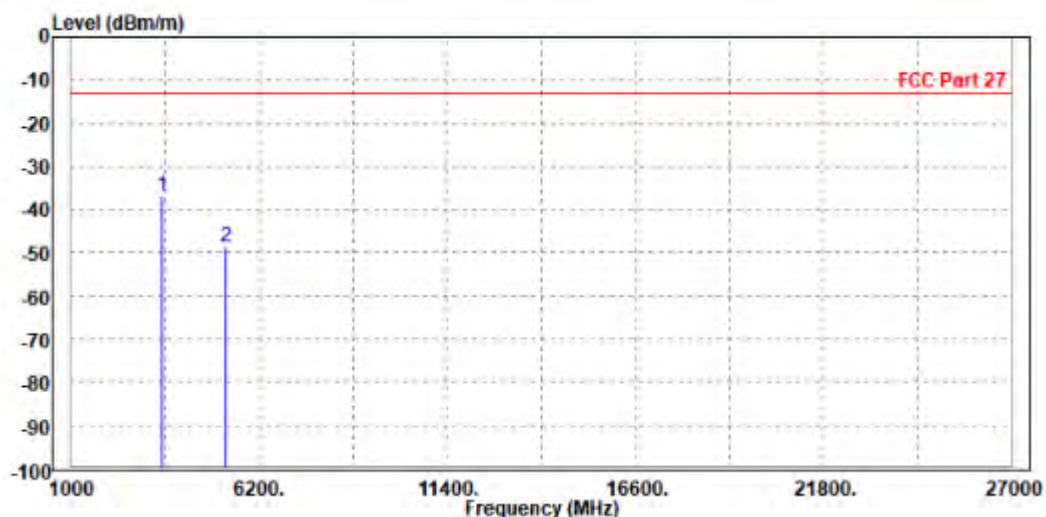
|      | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 PP | 3418.000 | -47.05 | -56.16        | -13.00        | -34.05        | 9.11   | Peak   | Vertical  |
| 2    | 5132.100 | -47.49 | -57.34        | -13.00        | -34.49        | 9.85   | Peak   | Vertical  |



CH132322

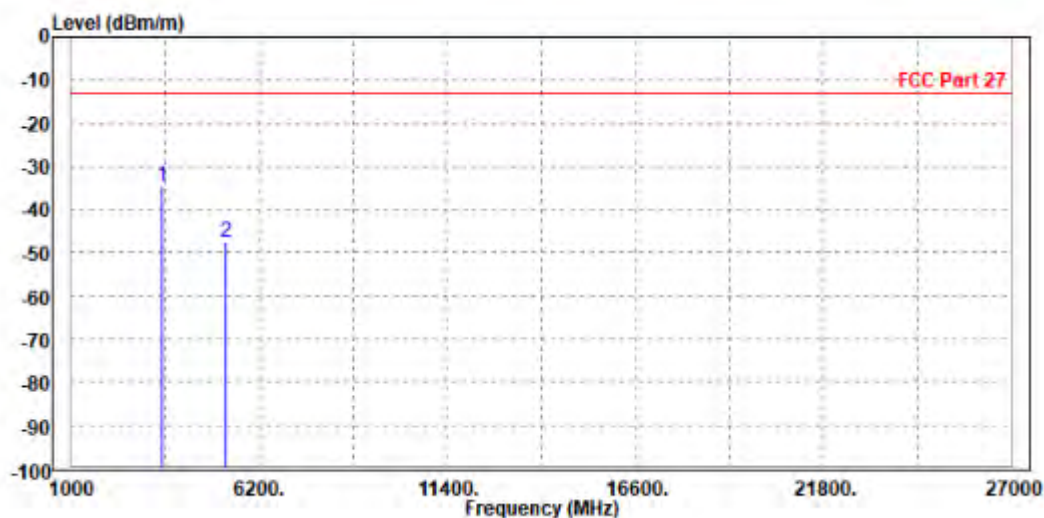
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132322 | FREQUENCY 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 | 3522.000 | -36.91 | -45.51     | -13.00     | -23.91     | 8.60   | Peak   | Horizontal |
| 2    | 5265.000 | -48.58 | -57.90     | -13.00     | -35.58     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu           |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

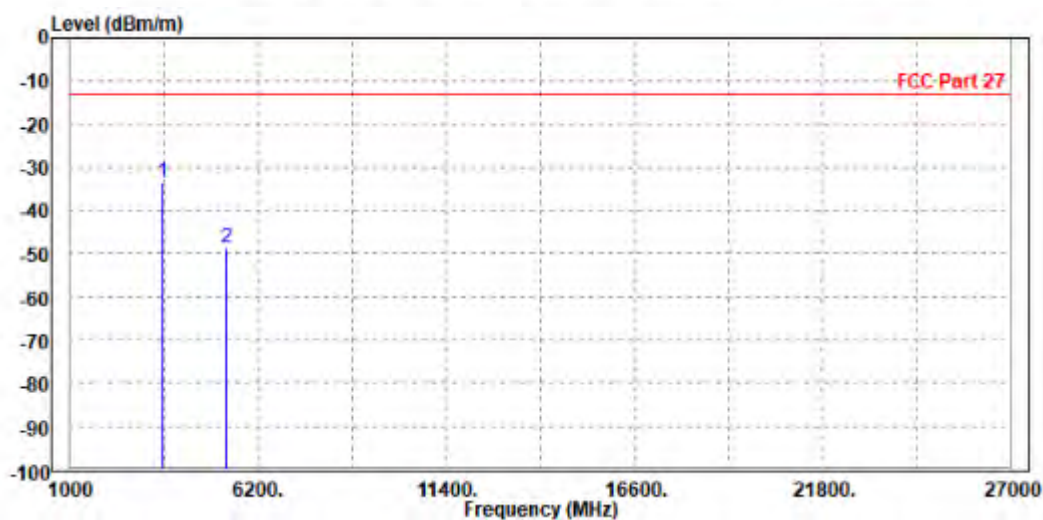
|   |    | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 | PP | 3522.000 | -34.77 | -43.97        | -13.00        | -21.77        | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -47.49 | -57.29        | -13.00        | -34.49        | 9.80   | Peak   | Vertical  |



CH132665

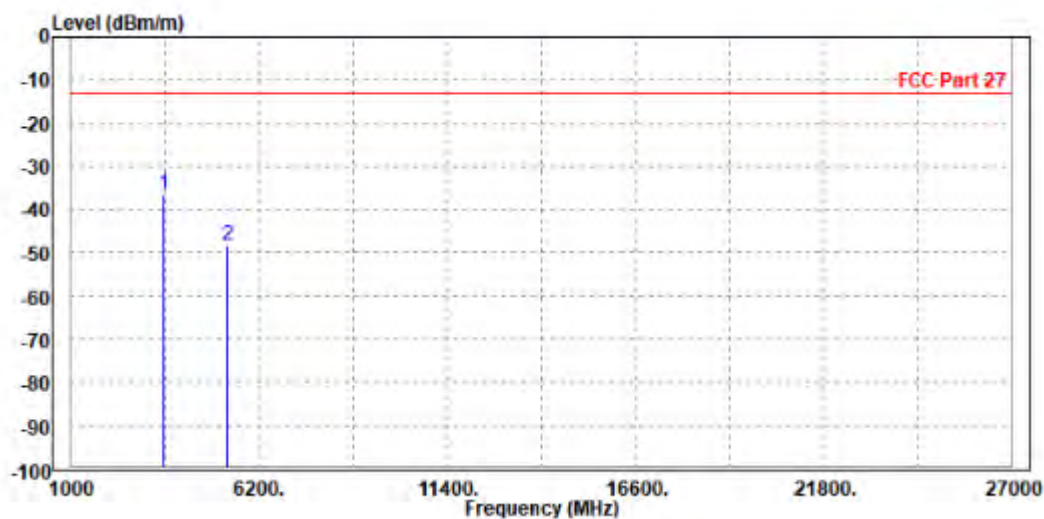
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132665 | FREQUENCY 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 | 3548.000 | -33.35 | -41.97     | -13.00     | -20.35     | 8.62   | Peak   | Horizontal |
| 2 |    | 5337.900 | -48.61 | -58.15     | -13.00     | -35.61     | 9.54   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132665 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu           |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

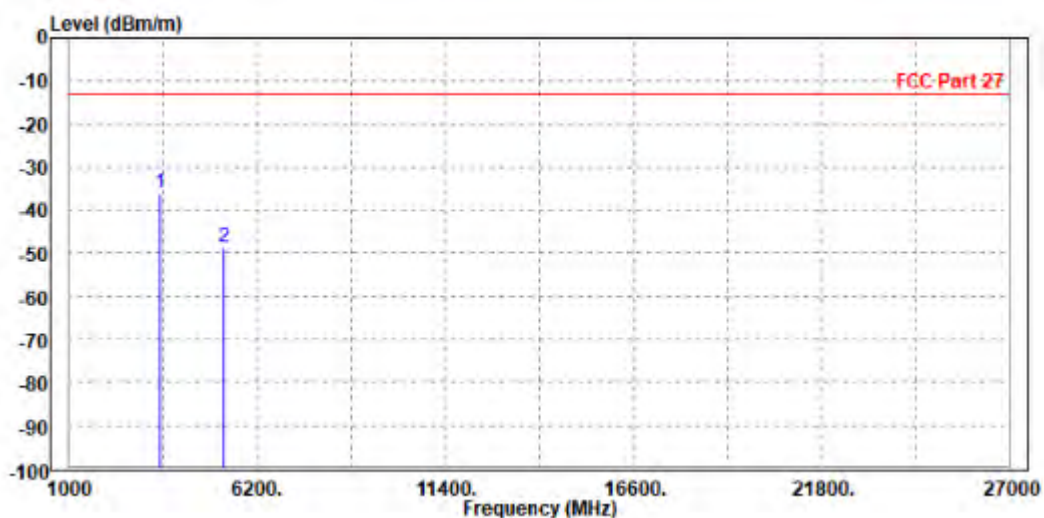
|   |    | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 | PP | 3548.000 | -36.54 | -45.75        | -13.00        | -23.54        | 9.21   | Peak   | Vertical  |
| 2 |    | 5337.900 | -48.35 | -58.12        | -13.00        | -35.35        | 9.77   | Peak   | Vertical  |



CHANNEL BANDWIDTH: 3MHz / QPSK

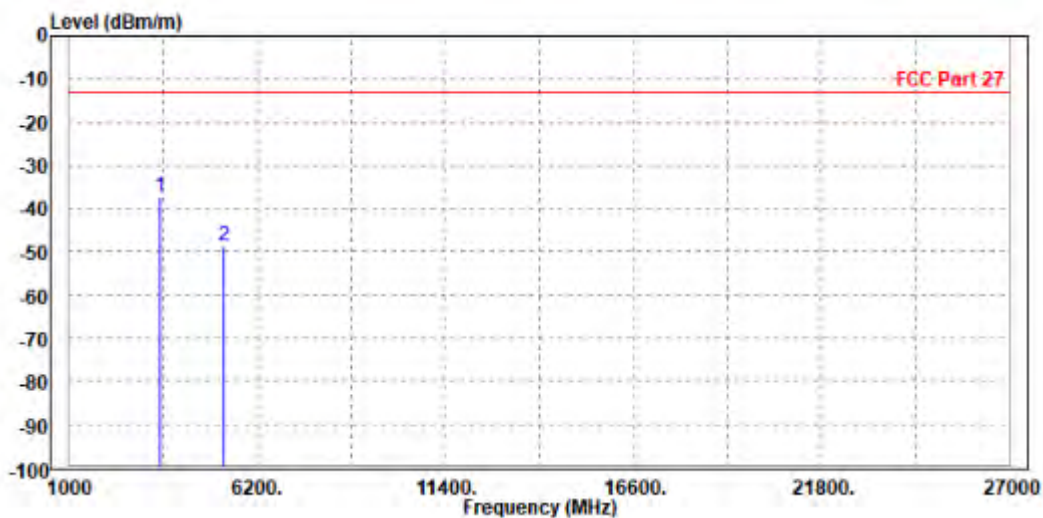
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132322 | FREQUENCY 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 | 3522.000 | -36.03 | -44.63     | -13.00     | -23.03     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -48.72 | -58.04     | -13.00     | -35.72     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132322 | 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 | 3522.000 | -37.37 | -46.57     | -13.00     | -24.37     | 9.20   | Peak   | Vertical  |
| 2    | 5265.000 | -48.60 | -58.40     | -13.00     | -35.60     | 9.80   | Peak   | Vertical  |

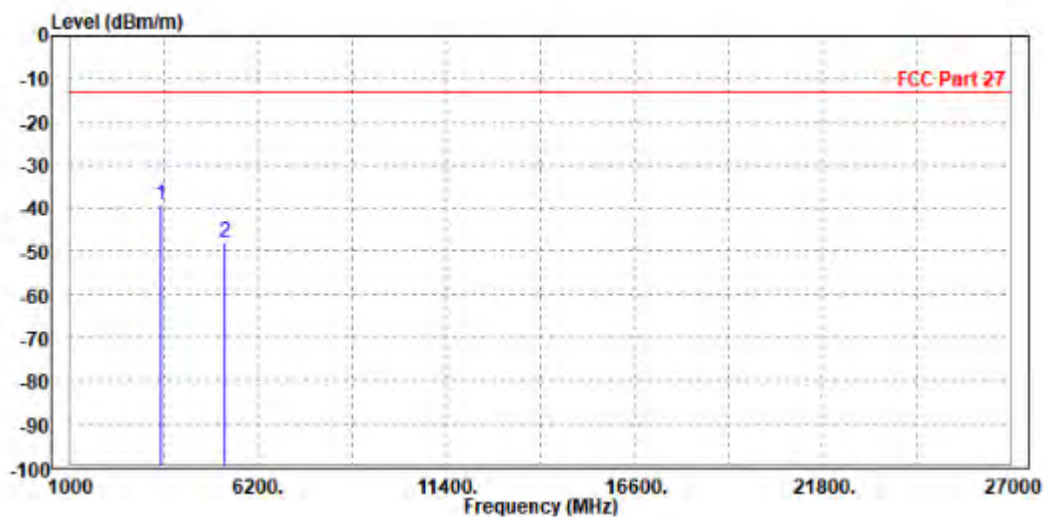


CHANNEL BANDWIDTH: 5MHz / QPSK

CH132322

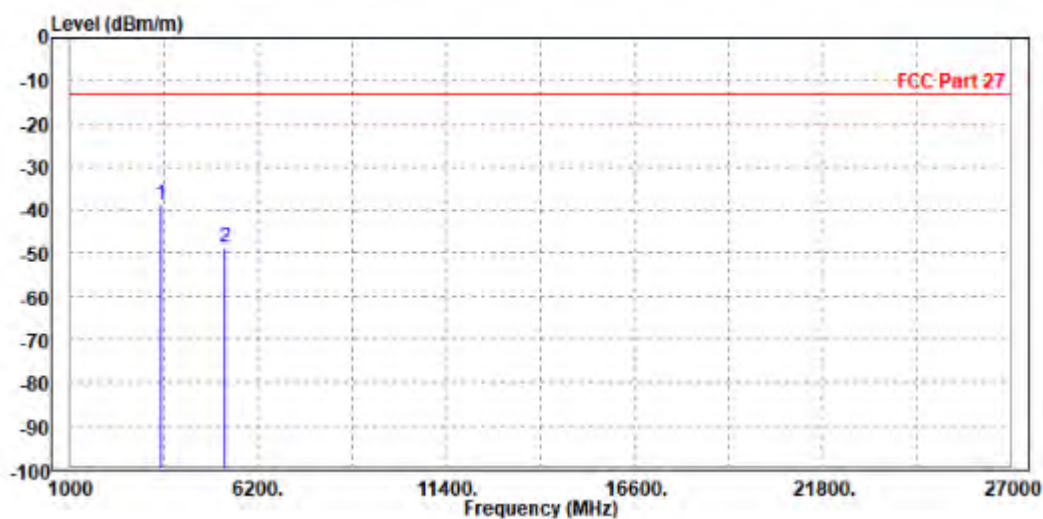
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132322 | FREQUENCY 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 | 3522.000 | -39.35 | -47.95     | -13.00     | -26.35     | 8.60   | Peak   | Horizontal |
| 2    | 5265.000 | -47.82 | -57.14     | -13.00     | -34.82     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132322 | 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 3522.000 | -38.87 | -48.07     | -13.00     | -25.87     | 9.20   | Peak   | Vertical  |
| 2 | 5265.000    | -48.57 | -58.37     | -13.00     | -35.57     | 9.80   | Peak   | Vertical  |





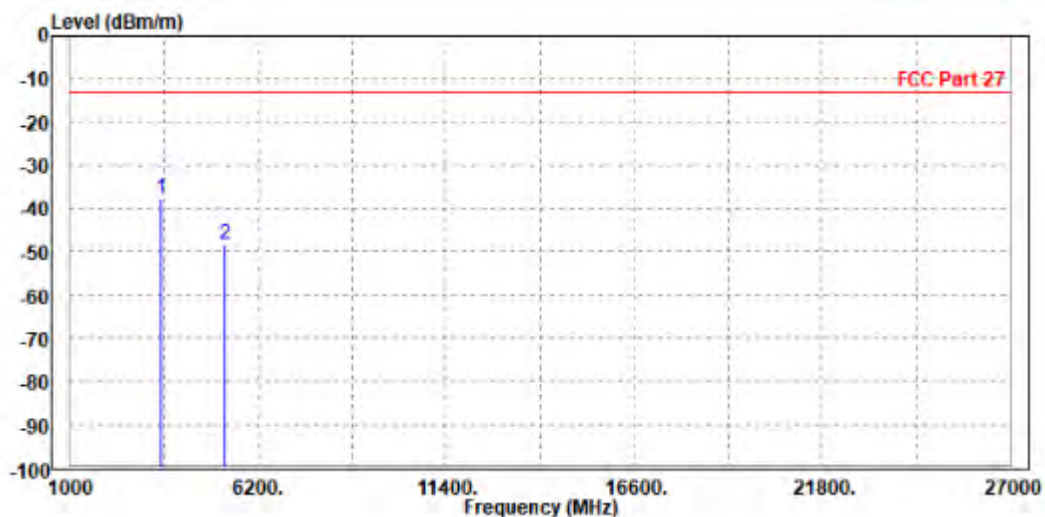
Test Report No.: W7L-P22030026-5RF05

CHANNEL BANDWIDTH: 10MHz / QPSK

CH132322

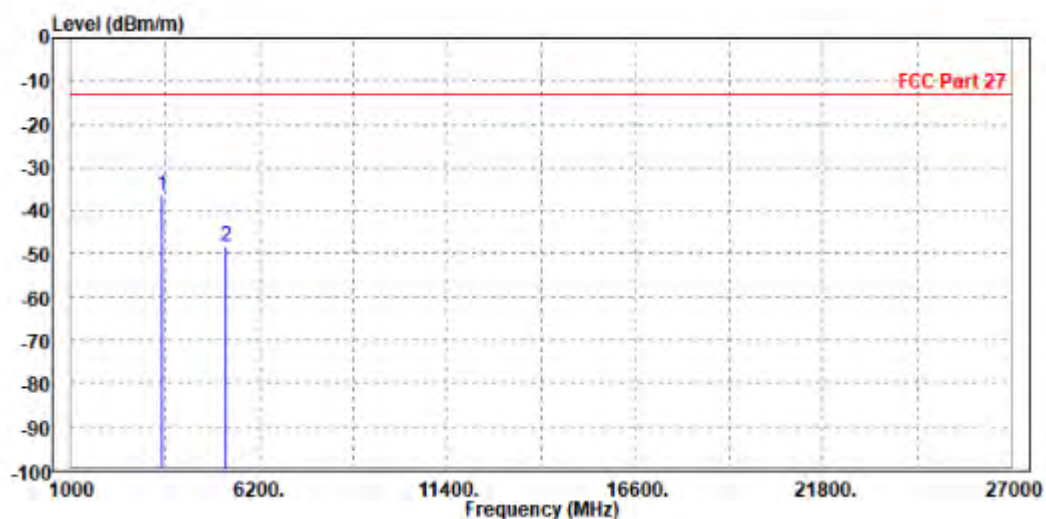
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132322 | FREQUENCY 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 | 3522.000 | -37.62 | -46.22     | -13.00     | -24.62     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -48.30 | -57.62     | -13.00     | -35.30     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132322 | 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 |                   |                 |               |

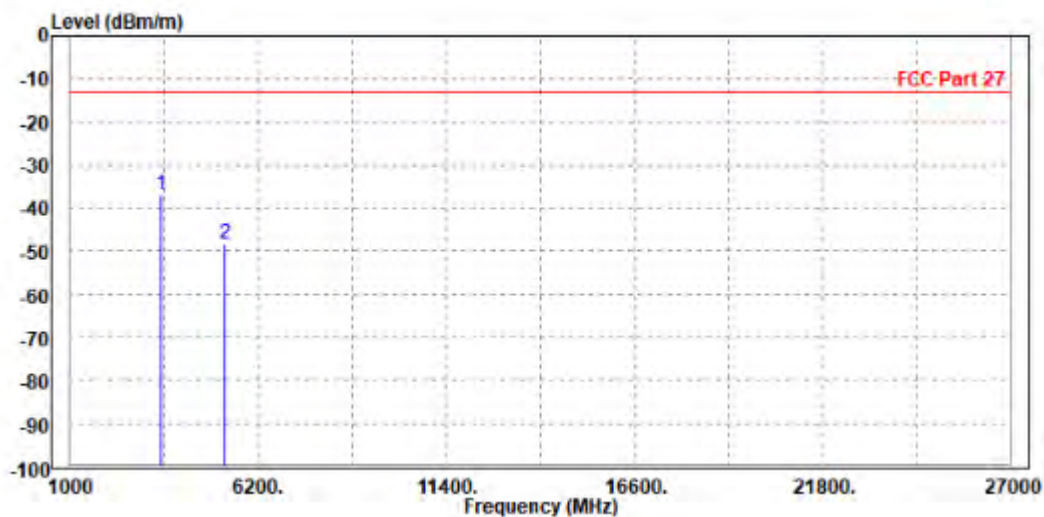
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 3522.000 | -36.58 | -45.78     | -13.00     | -23.58     | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -48.21 | -58.01     | -13.00     | -35.21     | 9.80   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 15MHz / QPSK**

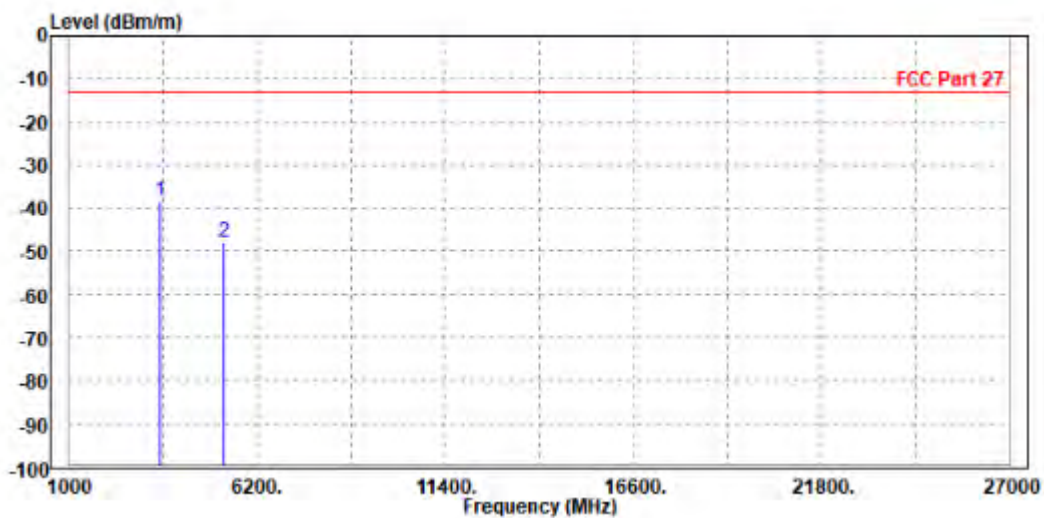
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132322 | FREQUENCY 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 3522.000 | -36.94 | -45.54     | -13.00     | -23.94     | 8.60   | Peak   | Horizontal |
| 2 | 5265.000    | -48.10 | -57.42     | -13.00     | -35.10     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu           |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

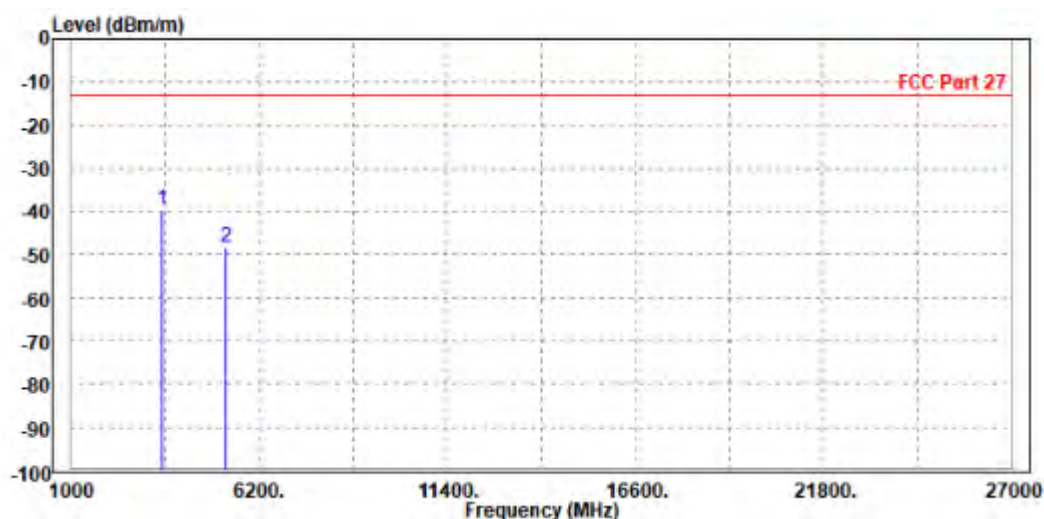
|   |    | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1 | PP | 3522.000 | -38.30 | -47.50        | -13.00        | -25.30        | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -47.91 | -57.71        | -13.00        | -34.91        | 9.80   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 20MHz / QPSK**

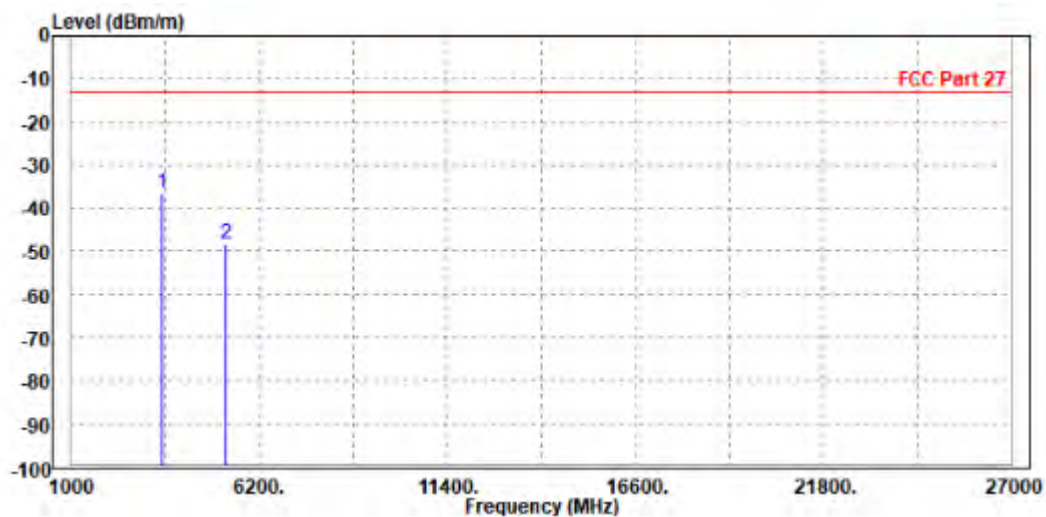
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 132322 | FREQUENCY 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 | 3522.000 | -39.68 | -48.28     | -13.00     | -26.68     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -48.15 | -57.47     | -13.00     | -35.15     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 132322 | 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 | 3522.000 | -36.51 | -45.71     | -13.00     | -23.51     | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -48.12 | -57.92     | -13.00     | -35.12     | 9.80   | Peak   | Vertical  |

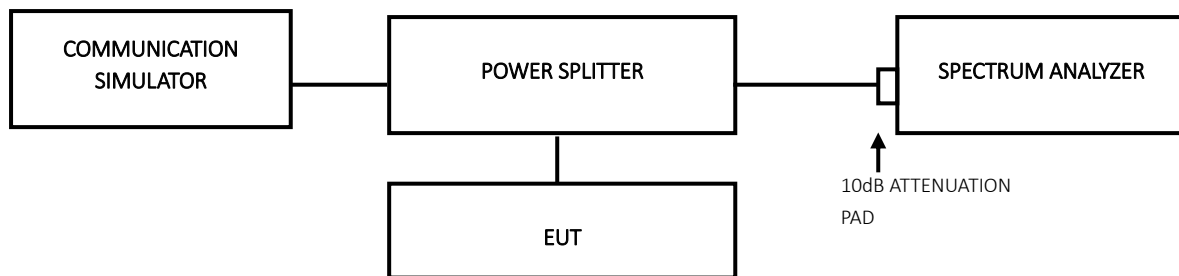


### 3.7 PEAK TO AVERAGE RATIO

#### 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.7.2 TEST SETUP



#### 3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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## 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Shenzhen EMC/RF Lab:**

Tel: +86-755-88696566

Fax: +86-755-88696577

**Email:** [customerservice.sw@cn.bureauveritas.com](mailto:customerservice.sw@cn.bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



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## 5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



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## 6 Appendix

### WCDMA B4

#### PEAK-TO-AVERAGE RATIO

##### Test Result

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|-------|---------|---------------------------|------------|---------|
| Band4 | 1312    | 2.94                      | 13         | PASS    |
| Band4 | 1413    | 2.98                      | 13         | PASS    |
| Band4 | 1513    | 2.71                      | 13         | PASS    |

## Test Graphs





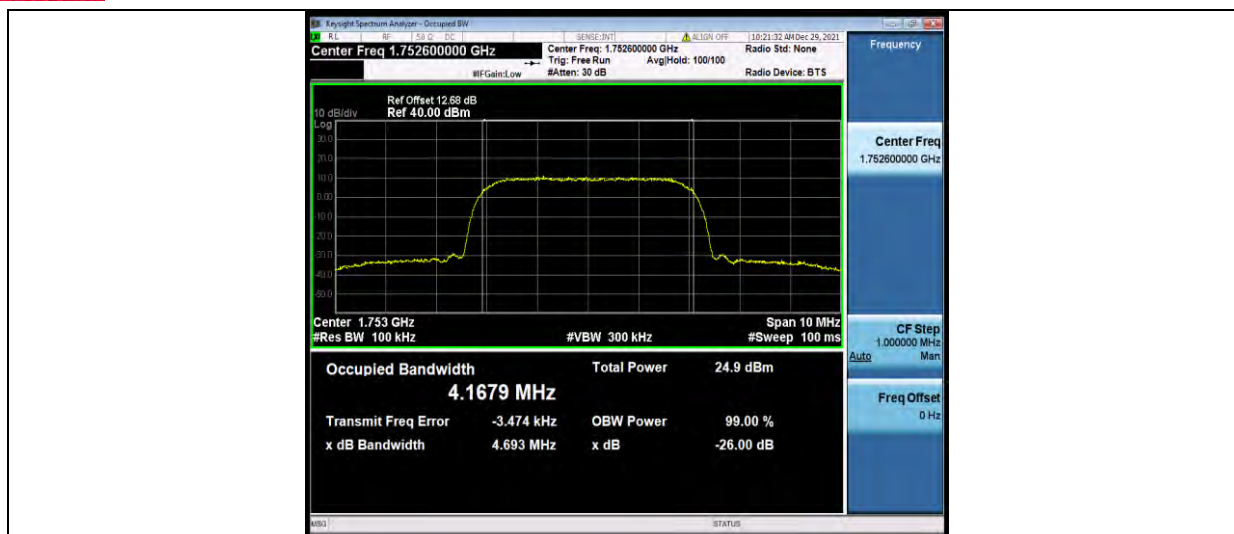
## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

| Band  | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(kHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band4 | 1312    | 4.1638                   | 4.693                | ---        | PASS    |
| Band4 | 1413    | 4.1642                   | 4.689                | ---        | PASS    |
| Band4 | 1513    | 4.1679                   | 4.693                | ---        | PASS    |

## Test Graphs



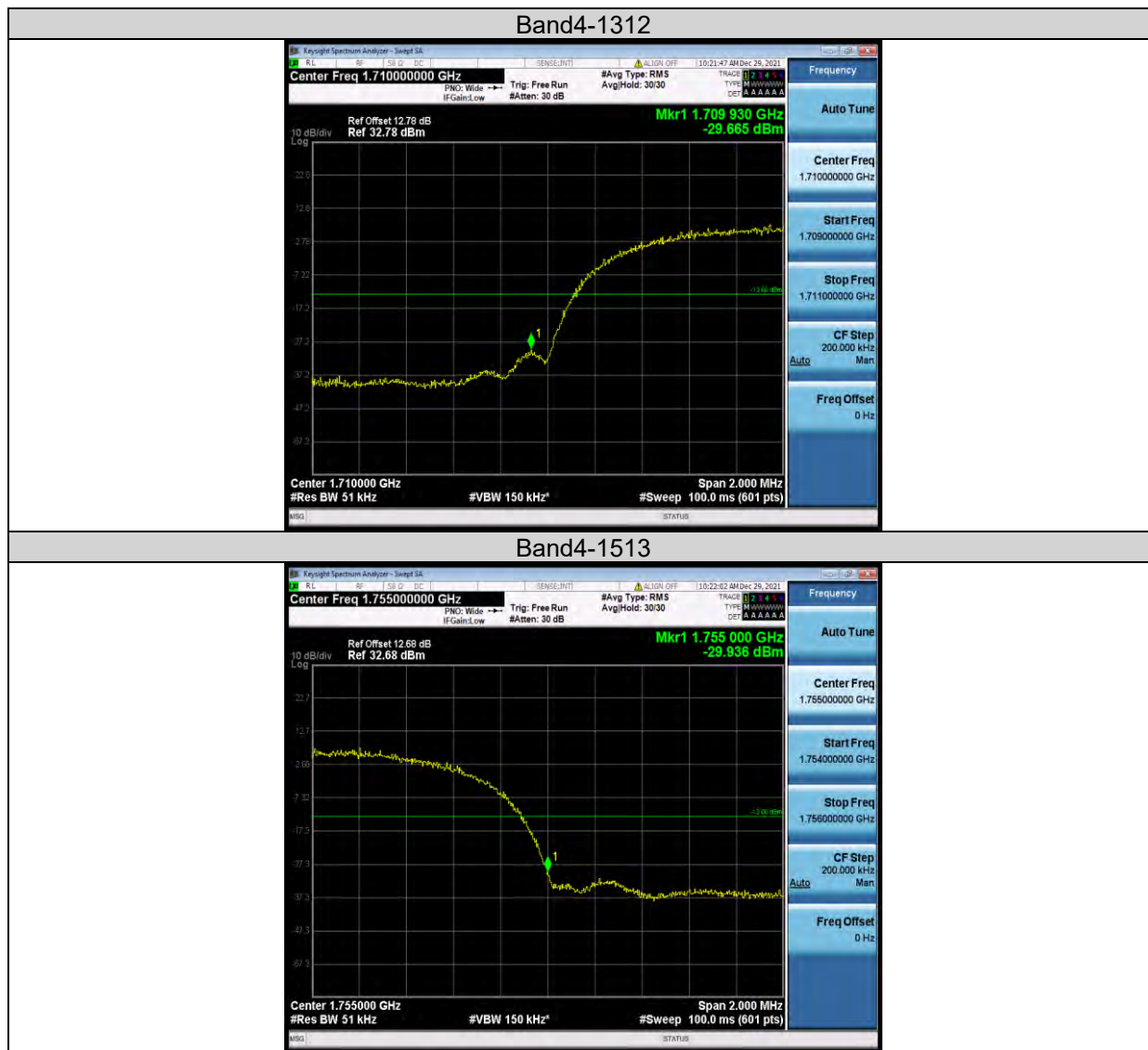


## BAND EDGE

### Test Result

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band4 | 1312    | 1709.93         | -29.66       | -13        | PASS    |
| Band4 | 1513    | 1755.00         | -29.94       | -13        | PASS    |

## Test Graphs

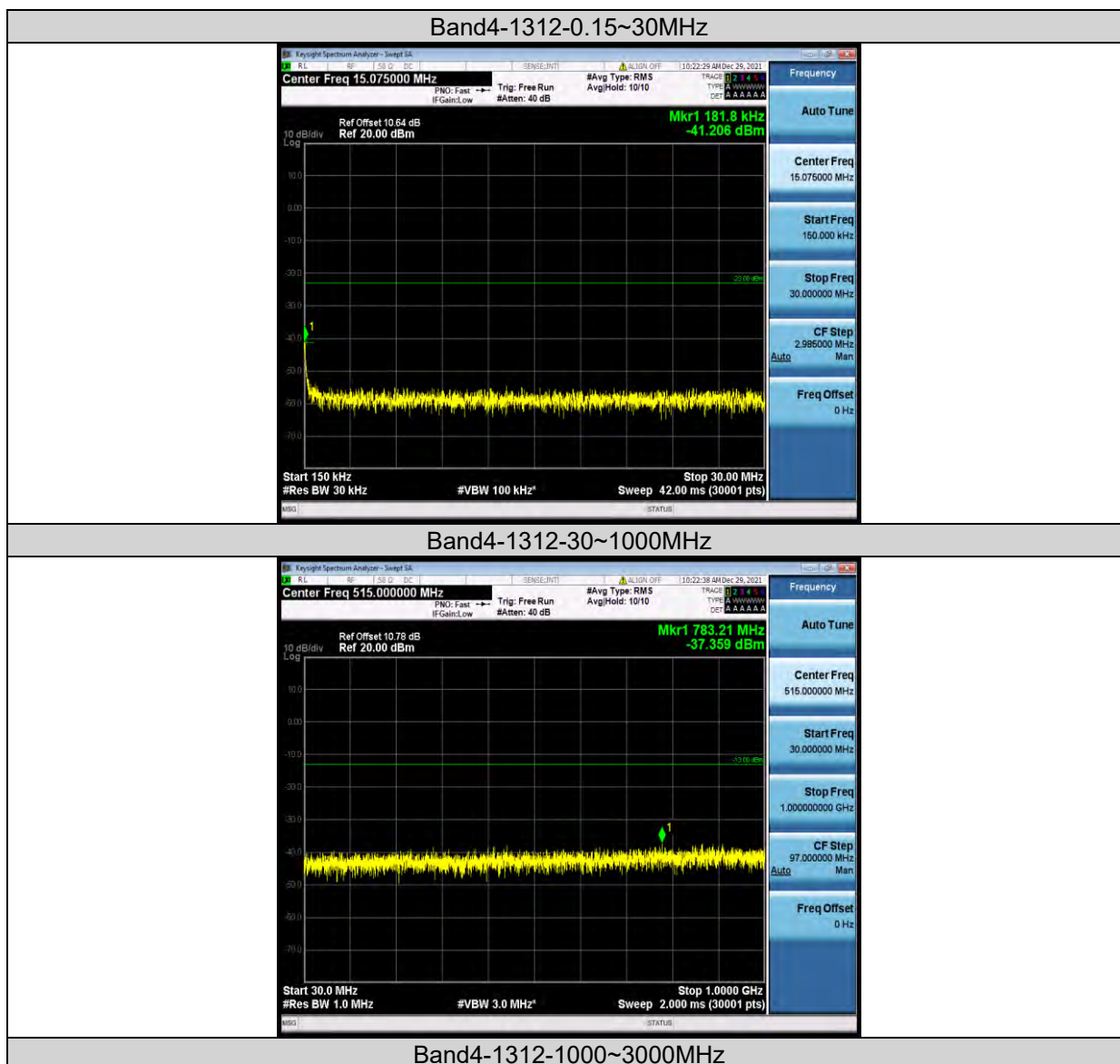


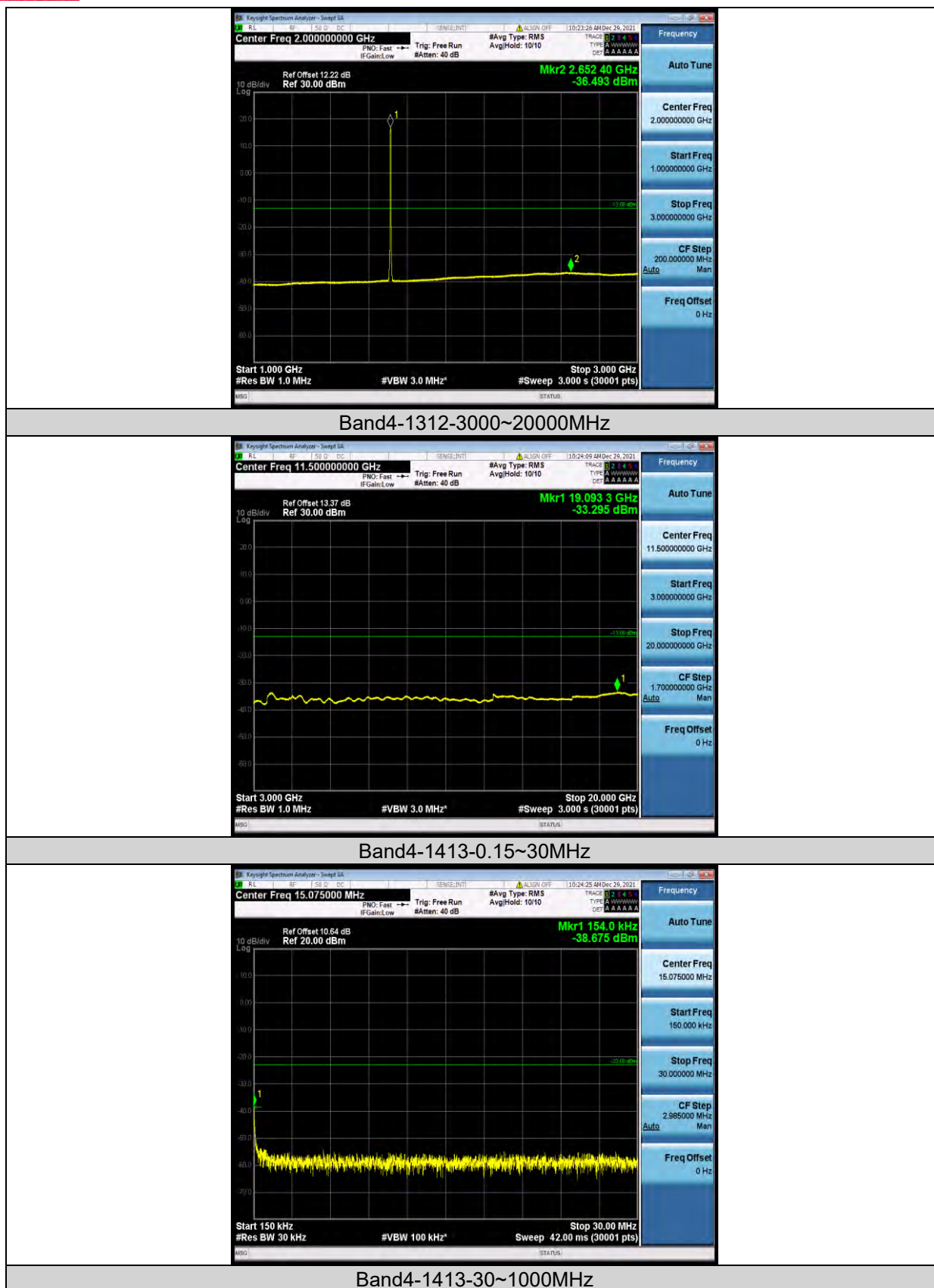
## CONDUCTED SPURIOUS EMISSION

### Test Result

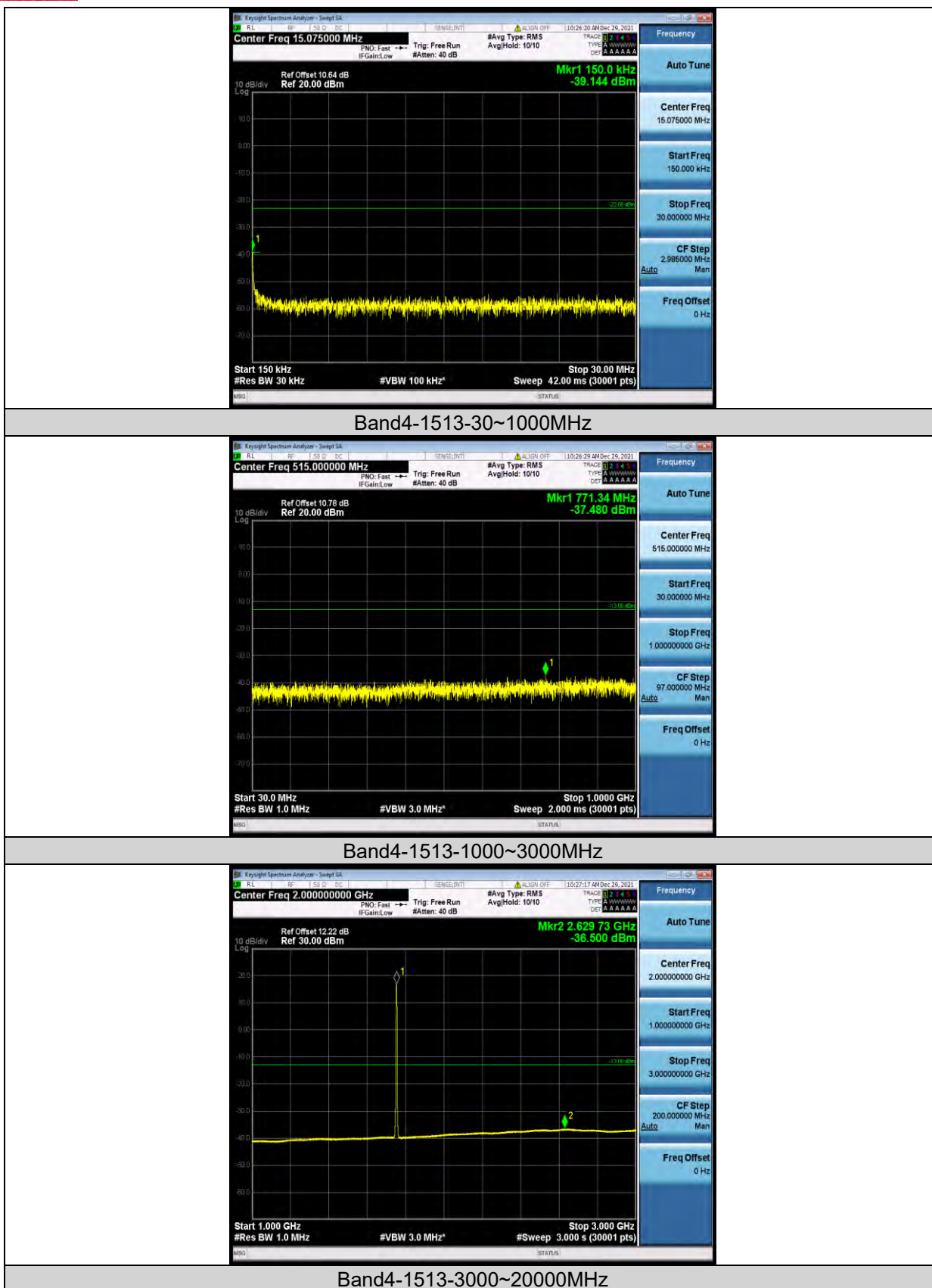
| Band  | Channel | Frequency Range (Mhz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band4 | 1312    | 0.15~30MHz            | 0.18            | -41.21       | -23         | PASS    |
| Band4 | 1312    | 30~1000MHz            | 783.21          | -37.36       | -13         | PASS    |
| Band4 | 1312    | 1000~3000MHz          | 2652.4          | -36.49       | -13         | PASS    |
| Band4 | 1312    | 3000~20000MHz         | 19093.33        | -33.3        | -13         | PASS    |
| Band4 | 1413    | 0.15~30MHz            | 0.15            | -38.68       | -23         | PASS    |
| Band4 | 1413    | 30~1000MHz            | 896.57          | -37.22       | -13         | PASS    |
| Band4 | 1413    | 1000~3000MHz          | 2640.47         | -36.43       | -13         | PASS    |
| Band4 | 1413    | 3000~20000MHz         | 19088.23        | -33.34       | -13         | PASS    |
| Band4 | 1513    | 0.15~30MHz            | 0.15            | -39.14       | -23         | PASS    |
| Band4 | 1513    | 30~1000MHz            | 771.34          | -37.48       | -13         | PASS    |
| Band4 | 1513    | 1000~3000MHz          | 2629.73         | -36.5        | -13         | PASS    |
| Band4 | 1513    | 3000~20000MHz         | 19121.67        | -33.38       | -13         | PASS    |

## Test Graphs











## FREQUENCY STABILITY

### Test Result

| Voltage |         |               |                  |                |                 |             |         |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4   | 1312    | VL            | NT               | 4.50           | 0.002628        | ±2.5        | PASS    |
| Band4   | 1312    | VN            | NT               | -4.94          | -0.002885       | ±2.5        | PASS    |
| Band4   | 1312    | VH            | NT               | -0.05          | -0.000029       | ±2.5        | PASS    |
| Band4   | 1413    | VL            | NT               | -3.15          | -0.001818       | ±2.5        | PASS    |
| Band4   | 1413    | VN            | NT               | -1.95          | -0.001125       | ±2.5        | PASS    |
| Band4   | 1413    | VH            | NT               | 2.27           | 0.001310        | ±2.5        | PASS    |
| Band4   | 1513    | VL            | NT               | -2.27          | -0.001295       | ±2.5        | PASS    |
| Band4   | 1513    | VN            | NT               | -1.26          | -0.000719       | ±2.5        | PASS    |
| Band4   | 1513    | VH            | NT               | -3.25          | -0.001854       | ±2.5        | PASS    |

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4       | 1312    | NV            | -30              | -1.45          | -0.000847       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -20              | -0.24          | -0.000140       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 0                | 1.67           | 0.000975        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 10               | 3.47           | 0.002026        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 20               | 1.80           | 0.001051        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 30               | -10.51         | -0.0127         | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 40               | -9.25          | -0.0112         | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 50               | -8.28          | -0.0100         | ±2.5        | PASS    |



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|       |      |    |     |       |           |      |      |
|-------|------|----|-----|-------|-----------|------|------|
| Band4 | 1413 | NV | -30 | -3.33 | -0.001922 | ±2.5 | PASS |
| Band4 | 1413 | NV | -20 | -0.70 | -0.000404 | ±2.5 | PASS |
| Band4 | 1413 | NV | 0   | 2.14  | 0.001235  | ±2.5 | PASS |
| Band4 | 1413 | NV | 10  | 3.33  | 0.001922  | ±2.5 | PASS |
| Band4 | 1413 | NV | 20  | 7.26  | 0.004190  | ±2.5 | PASS |
| Band4 | 1413 | NV | 30  | -7.21 | -0.0087   | ±2.5 | PASS |
| Band4 | 1413 | NV | 40  | -6.57 | -0.0080   | ±2.5 | PASS |
| Band4 | 1413 | NV | 50  | -4.84 | -0.0059   | ±2.5 | PASS |
| Band4 | 1513 | NV | -30 | 3.37  | 0.001923  | ±2.5 | PASS |
| Band4 | 1513 | NV | -20 | 4.80  | 0.002739  | ±2.5 | PASS |
| Band4 | 1513 | NV | 0   | -2.22 | -0.001267 | ±2.5 | PASS |
| Band4 | 1513 | NV | 10  | -2.47 | -0.001409 | ±2.5 | PASS |
| Band4 | 1513 | NV | 20  | 1.70  | 0.000970  | ±2.5 | PASS |
| Band4 | 1513 | NV | 30  | -2.49 | -0.0030   | ±2.5 | PASS |
| Band4 | 1513 | NV | 40  | -1.45 | -0.0018   | ±2.5 | PASS |
| Band4 | 1513 | NV | 50  | -0.39 | -0.0005   | ±2.5 | PASS |



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## LTE BAND4

### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 4.55       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 5.09       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 5.05       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 5.33       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 4.00       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 4.60       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 5.21       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 5.93       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 6.16       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 6.27       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 4.72       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 5.45       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | 4.51       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 5.08       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#0            | 5.05       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 5.42       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 1RB#0            | 3.72       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 4.57       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#0            | 5.53       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 6.00       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 1RB#0            | 6.13       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 6.36       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 1RB#0            | 4.80       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 5.46       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 1RB#0            | 4.66       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 5.16       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 1RB#0            | 5.40       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 5.39       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 1RB#0            | 4.11       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.59       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 1RB#0            | 5.64       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 5.98       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 1RB#0            | 6.07       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 6.17       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 1RB#0            | 4.68       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 5.39       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 1RB#0            | 4.47       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 5.37       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 1RB#0            | 5.20       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 5.41       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 1RB#0            | 3.96       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 4.65       | 13        | PASS    |

|       |        |       |       |         |      |    |      |
|-------|--------|-------|-------|---------|------|----|------|
| Band4 | 10MHz  | 16QAM | 20000 | 1RB#0   | 5.45 | 13 | PASS |
| Band4 | 10MHz  | 16QAM | 20000 | 50RB#0  | 6.16 | 13 | PASS |
| Band4 | 10MHz  | 16QAM | 20175 | 1RB#0   | 6.18 | 13 | PASS |
| Band4 | 10MHz  | 16QAM | 20175 | 50RB#0  | 6.24 | 13 | PASS |
| Band4 | 10MHz  | 16QAM | 20350 | 1RB#0   | 4.97 | 13 | PASS |
| Band4 | 10MHz  | 16QAM | 20350 | 50RB#0  | 5.54 | 13 | PASS |
| Band4 | 15MHz  | QPSK  | 20025 | 1RB#0   | 4.52 | 13 | PASS |
| Band4 | 15MHz  | QPSK  | 20025 | 75RB#0  | 5.74 | 13 | PASS |
| Band4 | 15MHz  | QPSK  | 20175 | 1RB#0   | 5.13 | 13 | PASS |
| Band4 | 15MHz  | QPSK  | 20175 | 75RB#0  | 5.72 | 13 | PASS |
| Band4 | 15MHz  | QPSK  | 20325 | 1RB#0   | 4.36 | 13 | PASS |
| Band4 | 15MHz  | QPSK  | 20325 | 75RB#0  | 5.13 | 13 | PASS |
| Band4 | 15MHz  | 16QAM | 20025 | 1RB#0   | 5.44 | 13 | PASS |
| Band4 | 15MHz  | 16QAM | 20025 | 75RB#0  | 6.31 | 13 | PASS |
| Band4 | 15MHz  | 16QAM | 20175 | 1RB#0   | 6.20 | 13 | PASS |
| Band4 | 15MHz  | 16QAM | 20175 | 75RB#0  | 6.36 | 13 | PASS |
| Band4 | 15MHz  | 16QAM | 20325 | 1RB#0   | 5.28 | 13 | PASS |
| Band4 | 15MHz  | 16QAM | 20325 | 75RB#0  | 5.80 | 13 | PASS |
| Band4 | 20MHz  | QPSK  | 20050 | 1RB#0   | 4.39 | 13 | PASS |
| Band4 | 20MHz  | QPSK  | 20050 | 100RB#0 | 5.60 | 13 | PASS |
| Band4 | 20MHz  | QPSK  | 20175 | 1RB#0   | 5.16 | 13 | PASS |
| Band4 | 20MHz  | QPSK  | 20175 | 100RB#0 | 5.57 | 13 | PASS |
| Band4 | 20MHz  | QPSK  | 20300 | 1RB#0   | 4.61 | 13 | PASS |
| Band4 | 20MHz  | QPSK  | 20300 | 100RB#0 | 5.29 | 13 | PASS |
| Band4 | 20MHz  | 16QAM | 20050 | 1RB#0   | 5.17 | 13 | PASS |
| Band4 | 20MHz  | 16QAM | 20050 | 100RB#0 | 6.35 | 13 | PASS |
| Band4 | 20MHz  | 16QAM | 20175 | 1RB#0   | 6.32 | 13 | PASS |
| Band4 | 20MHz  | 16QAM | 20175 | 100RB#0 | 6.30 | 13 | PASS |
| Band4 | 20MHz  | 16QAM | 20300 | 1RB#0   | 5.76 | 13 | PASS |
| Band4 | 20MHz  | 16QAM | 20300 | 100RB#0 | 6.02 | 13 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#0   | 5.81 | 13 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0   | 6.10 | 13 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0   | 6.11 | 13 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0   | 6.35 | 13 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0   | 5.42 | 13 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0   | 6.08 | 13 | PASS |
| Band4 | 3MHz   | 64QAM | 19965 | 1RB#0   | 5.75 | 13 | PASS |
| Band4 | 3MHz   | 64QAM | 19965 | 15RB#0  | 6.22 | 13 | PASS |
| Band4 | 3MHz   | 64QAM | 20175 | 1RB#0   | 6.39 | 13 | PASS |
| Band4 | 3MHz   | 64QAM | 20175 | 15RB#0  | 6.45 | 13 | PASS |
| Band4 | 3MHz   | 64QAM | 20385 | 1RB#0   | 5.45 | 13 | PASS |
| Band4 | 3MHz   | 64QAM | 20385 | 15RB#0  | 6.08 | 13 | PASS |
| Band4 | 5MHz   | 64QAM | 19975 | 1RB#0   | 5.88 | 13 | PASS |
| Band4 | 5MHz   | 64QAM | 19975 | 25RB#0  | 6.12 | 13 | PASS |
| Band4 | 5MHz   | 64QAM | 20175 | 1RB#0   | 6.25 | 13 | PASS |
| Band4 | 5MHz   | 64QAM | 20175 | 25RB#0  | 6.38 | 13 | PASS |
| Band4 | 5MHz   | 64QAM | 20375 | 1RB#0   | 5.41 | 13 | PASS |
| Band4 | 5MHz   | 64QAM | 20375 | 25RB#0  | 6.10 | 13 | PASS |
| Band4 | 10MHz  | 64QAM | 20000 | 1RB#0   | 5.70 | 13 | PASS |
| Band4 | 10MHz  | 64QAM | 20000 | 50RB#0  | 6.33 | 13 | PASS |
| Band4 | 10MHz  | 64QAM | 20175 | 1RB#0   | 6.25 | 13 | PASS |
| Band4 | 10MHz  | 64QAM | 20175 | 50RB#0  | 6.41 | 13 | PASS |
| Band4 | 10MHz  | 64QAM | 20350 | 1RB#0   | 5.58 | 13 | PASS |



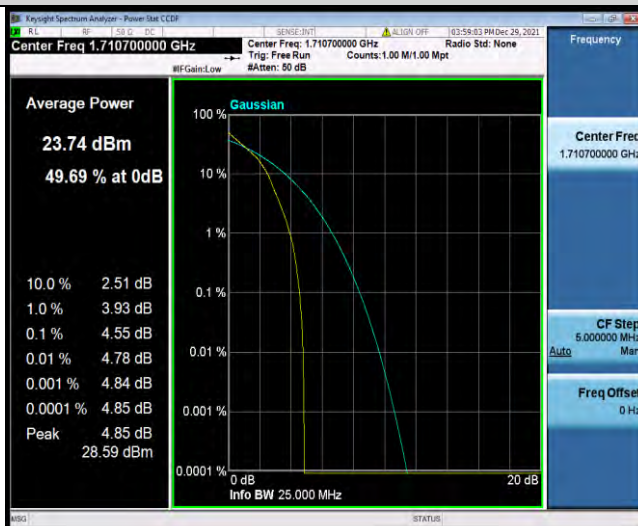
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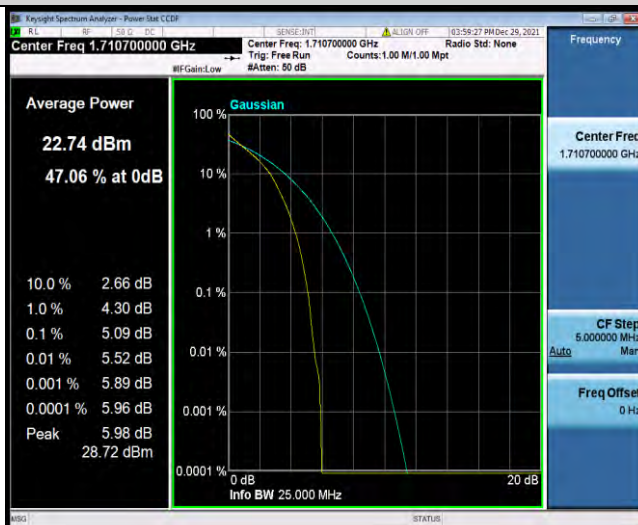
|       |       |       |       |         |      |    |      |
|-------|-------|-------|-------|---------|------|----|------|
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0  | 6.17 | 13 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#0   | 5.81 | 13 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0  | 6.44 | 13 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#0   | 6.21 | 13 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0  | 6.52 | 13 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#0   | 5.81 | 13 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0  | 6.28 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#0   | 5.19 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 6.49 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#0   | 6.26 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 6.45 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#0   | 6.19 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 6.35 | 13 | PASS |

## Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-1RB#0