

## **Appendix A: Test Data for E-UTRA Band 2**

**Product Name: AW1-A**

**Trade Mark: COVERT**

**Test Model: 5466**

### **Environmental Conditions**

|                    |             |
|--------------------|-------------|
| Temperature:       | 23.5° C     |
| Relative Humidity: | 53.8%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Diamond Lu  |
| Supervised by:     | Wang Chuang |

## A.1 Conducted Output Power

### Test Result

Channel Bandwidth: 1.4 MHz

| Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz) |         |                  |        |                     |                     |         |
|-----------------------------------------------------------------|---------|------------------|--------|---------------------|---------------------|---------|
| Modulation                                                      | Channel | RB Configuration |        | Average Power [dBm] | Average Power [dBm] | Verdict |
|                                                                 |         | Size             | Offset | QPSK                | 16QAM               |         |
| QPSK /<br>16QAM                                                 | LCH     | 1                | 0      | 21.72               | 20.92               | PASS    |
|                                                                 |         | 1                | 3      | 21.74               | 21.16               | PASS    |
|                                                                 |         | 1                | 5      | 21.69               | 20.99               | PASS    |
|                                                                 |         | 3                | 0      | 21.79               | 20.98               | PASS    |
|                                                                 |         | 3                | 2      | 21.80               | 20.98               | PASS    |
|                                                                 |         | 3                | 3      | 21.77               | 20.92               | PASS    |
|                                                                 |         | 6                | 0      | 20.76               | 19.70               | PASS    |
|                                                                 | MCH     | 1                | 0      | 22.54               | 21.97               | PASS    |
|                                                                 |         | 1                | 3      | 22.71               | 22.20               | PASS    |
|                                                                 |         | 1                | 5      | 22.68               | 22.07               | PASS    |
|                                                                 |         | 3                | 0      | 22.68               | 21.70               | PASS    |
|                                                                 |         | 3                | 2      | 22.67               | 21.76               | PASS    |
|                                                                 |         | 3                | 3      | 22.70               | 21.77               | PASS    |
|                                                                 |         | 6                | 0      | 21.68               | 20.58               | PASS    |
|                                                                 | HCH     | 1                | 0      | 20.63               | 19.89               | PASS    |
|                                                                 |         | 1                | 3      | 20.76               | 20.14               | PASS    |
|                                                                 |         | 1                | 5      | 20.71               | 19.93               | PASS    |
|                                                                 |         | 3                | 0      | 20.68               | 19.78               | PASS    |
|                                                                 |         | 3                | 2      | 20.75               | 19.84               | PASS    |
|                                                                 |         | 3                | 3      | 20.75               | 19.82               | PASS    |
|                                                                 |         | 6                | 0      | 19.74               | 18.84               | PASS    |

## Channel Bandwidth: 3 MHz

| Conducted Output Power Test Result (Channel Bandwidth: 3 MHz) |         |                  |        |                     |                     |         |
|---------------------------------------------------------------|---------|------------------|--------|---------------------|---------------------|---------|
| Modulation                                                    | Channel | RB Configuration |        | Average Power [dBm] | Average Power [dBm] | Verdict |
|                                                               |         | Size             | Offset | QPSK                | 16QAM               |         |
| QPSK /<br>16QAM                                               | LCH     | 1                | 0      | 21.74               | 21.06               | PASS    |
|                                                               |         | 1                | 7      | 21.99               | 21.33               | PASS    |
|                                                               |         | 1                | 14     | 21.70               | 21.01               | PASS    |
|                                                               |         | 8                | 0      | 20.82               | 19.86               | PASS    |
|                                                               |         | 8                | 4      | 20.83               | 19.92               | PASS    |
|                                                               |         | 8                | 7      | 20.73               | 19.80               | PASS    |
|                                                               |         | 15               | 0      | 20.79               | 19.73               | PASS    |
|                                                               | MCH     | 1                | 0      | 21.96               | 21.26               | PASS    |
|                                                               |         | 1                | 7      | 22.21               | 21.50               | PASS    |
|                                                               |         | 1                | 14     | 21.93               | 21.22               | PASS    |
|                                                               |         | 8                | 0      | 21.00               | 20.05               | PASS    |
|                                                               |         | 8                | 4      | 21.06               | 20.13               | PASS    |
|                                                               |         | 8                | 7      | 20.99               | 20.08               | PASS    |
|                                                               |         | 15               | 0      | 21.01               | 19.97               | PASS    |
|                                                               | HCH     | 1                | 0      | 21.18               | 20.60               | PASS    |
|                                                               |         | 1                | 7      | 21.40               | 20.79               | PASS    |
|                                                               |         | 1                | 14     | 21.11               | 20.46               | PASS    |
|                                                               |         | 8                | 0      | 20.23               | 19.20               | PASS    |
|                                                               |         | 8                | 4      | 20.25               | 19.19               | PASS    |
|                                                               |         | 8                | 7      | 20.20               | 19.14               | PASS    |
|                                                               |         | 15               | 0      | 20.16               | 19.16               | PASS    |

## Channel Bandwidth: 5 MHz

| Conducted Output Power Test Result (Channel Bandwidth: 5 MHz) |         |                  |        |                     |                     |         |
|---------------------------------------------------------------|---------|------------------|--------|---------------------|---------------------|---------|
| Modulation                                                    | Channel | RB Configuration |        | Average Power [dBm] | Average Power [dBm] | Verdict |
|                                                               |         | Size             | Offset | QPSK                | 16QAM               |         |
| QPSK / 16QAM                                                  | LCH     | 1                | 0      | 21.30               | 20.73               | PASS    |
|                                                               |         | 1                | 12     | 21.74               | 21.14               | PASS    |
|                                                               |         | 1                | 24     | 21.37               | 20.79               | PASS    |
|                                                               |         | 12               | 0      | 20.49               | 19.65               | PASS    |
|                                                               |         | 12               | 6      | 20.52               | 19.71               | PASS    |
|                                                               |         | 12               | 13     | 20.45               | 19.65               | PASS    |
|                                                               |         | 25               | 0      | 20.50               | 19.53               | PASS    |
|                                                               | MCH     | 1                | 0      | 21.91               | 21.25               | PASS    |
|                                                               |         | 1                | 12     | 22.22               | 21.75               | PASS    |
|                                                               |         | 1                | 24     | 21.85               | 21.28               | PASS    |
|                                                               |         | 12               | 0      | 20.97               | 20.15               | PASS    |
|                                                               |         | 12               | 6      | 21.07               | 20.25               | PASS    |
|                                                               |         | 12               | 13     | 20.98               | 20.17               | PASS    |
|                                                               |         | 25               | 0      | 21.04               | 20.04               | PASS    |
|                                                               | HCH     | 1                | 0      | 21.18               | 20.28               | PASS    |
|                                                               |         | 1                | 12     | 21.51               | 20.49               | PASS    |
|                                                               |         | 1                | 24     | 21.06               | 20.00               | PASS    |
|                                                               |         | 12               | 0      | 20.23               | 19.26               | PASS    |
|                                                               |         | 12               | 6      | 20.29               | 19.36               | PASS    |
|                                                               |         | 12               | 13     | 20.25               | 19.24               | PASS    |
|                                                               |         | 25               | 0      | 20.26               | 19.27               | PASS    |

## Channel Bandwidth: 10 MHz

| Conducted Output Power Test Result (Channel Bandwidth: 10 MHz) |         |                  |        |                     |                     |         |
|----------------------------------------------------------------|---------|------------------|--------|---------------------|---------------------|---------|
| Modulation                                                     | Channel | RB Configuration |        | Average Power [dBm] | Average Power [dBm] | Verdict |
|                                                                |         | Size             | Offset | QPSK                | 16QAM               |         |
| QPSK / 16QAM                                                   | LCH     | 1                | 0      | 21.38               | 20.67               | PASS    |
|                                                                |         | 1                | 24     | 21.69               | 21.01               | PASS    |
|                                                                |         | 1                | 49     | 21.56               | 20.91               | PASS    |
|                                                                |         | 25               | 0      | 20.54               | 19.55               | PASS    |
|                                                                |         | 25               | 12     | 20.56               | 19.56               | PASS    |
|                                                                |         | 25               | 25     | 20.59               | 19.61               | PASS    |
|                                                                |         | 50               | 0      | 20.53               | 19.60               | PASS    |
|                                                                | MCH     | 1                | 0      | 21.90               | 21.20               | PASS    |
|                                                                |         | 1                | 24     | 22.13               | 21.42               | PASS    |
|                                                                |         | 1                | 49     | 21.84               | 21.12               | PASS    |
|                                                                |         | 25               | 0      | 21.03               | 20.06               | PASS    |
|                                                                |         | 25               | 12     | 21.01               | 20.01               | PASS    |
|                                                                |         | 25               | 25     | 21.04               | 20.05               | PASS    |
|                                                                |         | 50               | 0      | 21.04               | 20.02               | PASS    |
|                                                                | HCH     | 1                | 0      | 21.41               | 20.81               | PASS    |
|                                                                |         | 1                | 24     | 21.50               | 20.95               | PASS    |
|                                                                |         | 1                | 49     | 21.05               | 20.45               | PASS    |
|                                                                |         | 25               | 0      | 20.50               | 19.57               | PASS    |
|                                                                |         | 25               | 12     | 20.34               | 19.38               | PASS    |
|                                                                |         | 25               | 25     | 20.31               | 19.32               | PASS    |
|                                                                |         | 50               | 0      | 20.41               | 19.41               | PASS    |

## Channel Bandwidth: 15 MHz

| Conducted Output Power Test Result (Channel Bandwidth: 15 MHz) |         |                  |        |                     |                     |         |
|----------------------------------------------------------------|---------|------------------|--------|---------------------|---------------------|---------|
| Modulation                                                     | Channel | RB Configuration |        | Average Power [dBm] | Average Power [dBm] | Verdict |
|                                                                |         | Size             | Offset | QPSK                | 16QAM               |         |
| QPSK / 16QAM                                                   | LCH     | 1                | 0      | 21.35               | 20.71               | PASS    |
|                                                                |         | 1                | 37     | 21.85               | 21.08               | PASS    |
|                                                                |         | 1                | 74     | 21.63               | 20.97               | PASS    |
|                                                                |         | 37               | 0      | 20.54               | 19.54               | PASS    |
|                                                                |         | 37               | 18     | 20.58               | 19.57               | PASS    |
|                                                                |         | 37               | 38     | 20.66               | 19.63               | PASS    |
|                                                                |         | 75               | 0      | 20.64               | 19.61               | PASS    |
|                                                                | MCH     | 1                | 0      | 21.88               | 21.26               | PASS    |
|                                                                |         | 1                | 37     | 22.19               | 21.49               | PASS    |
|                                                                |         | 1                | 74     | 21.78               | 21.04               | PASS    |
|                                                                |         | 37               | 0      | 21.08               | 20.05               | PASS    |
|                                                                |         | 37               | 18     | 21.09               | 20.05               | PASS    |
|                                                                |         | 37               | 38     | 21.08               | 20.07               | PASS    |
|                                                                |         | 75               | 0      | 21.08               | 20.05               | PASS    |
|                                                                | HCH     | 1                | 0      | 21.57               | 20.85               | PASS    |
|                                                                |         | 1                | 37     | 21.62               | 20.94               | PASS    |
|                                                                |         | 1                | 74     | 21.04               | 20.35               | PASS    |
|                                                                |         | 37               | 0      | 20.71               | 19.68               | PASS    |
|                                                                |         | 37               | 18     | 20.51               | 19.51               | PASS    |
|                                                                |         | 37               | 38     | 20.36               | 19.40               | PASS    |
|                                                                |         | 75               | 0      | 20.57               | 19.54               | PASS    |

## Channel Bandwidth: 20 MHz

| Conducted Output Power Test Result (Channel Bandwidth: 20 MHz) |         |                  |        |                     |                     |         |
|----------------------------------------------------------------|---------|------------------|--------|---------------------|---------------------|---------|
| Modulation                                                     | Channel | RB Configuration |        | Average Power [dBm] | Average Power [dBm] | Verdict |
|                                                                |         | Size             | Offset | QPSK                | 16QAM               |         |
| QPSK /<br>16QAM                                                | LCH     | 1                | 0      | 21.40               | 20.68               | PASS    |
|                                                                |         | 1                | 49     | 21.90               | 21.10               | PASS    |
|                                                                |         | 1                | 99     | 21.77               | 21.00               | PASS    |
|                                                                |         | 50               | 0      | 20.58               | 19.53               | PASS    |
|                                                                |         | 50               | 25     | 20.66               | 19.67               | PASS    |
|                                                                |         | 50               | 50     | 20.77               | 19.73               | PASS    |
|                                                                |         | 100              | 0      | 20.71               | 19.64               | PASS    |
|                                                                | MCH     | 1                | 0      | 21.88               | 21.08               | PASS    |
|                                                                |         | 1                | 49     | 22.26               | 21.45               | PASS    |
|                                                                |         | 1                | 99     | 21.72               | 20.84               | PASS    |
|                                                                |         | 50               | 0      | 20.96               | 19.89               | PASS    |
|                                                                |         | 50               | 25     | 21.04               | 20.02               | PASS    |
|                                                                |         | 50               | 50     | 21.04               | 19.99               | PASS    |
|                                                                |         | 100              | 0      | 20.98               | 19.95               | PASS    |
|                                                                | HCH     | 1                | 0      | 21.73               | 21.06               | PASS    |
|                                                                |         | 1                | 49     | 21.70               | 21.09               | PASS    |
|                                                                |         | 1                | 99     | 21.06               | 20.42               | PASS    |
|                                                                |         | 50               | 0      | 20.85               | 19.86               | PASS    |
|                                                                |         | 50               | 25     | 20.55               | 19.57               | PASS    |
|                                                                |         | 50               | 50     | 20.31               | 19.33               | PASS    |
|                                                                |         | 100              | 0      | 20.62               | 19.59               | PASS    |

## A.2 Peak-to-Average Ratio

### Test Result

#### Channel Bandwidth: 1.4 MHz

| Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz) |         |                               |               |         |
|----------------------------------------------------------------|---------|-------------------------------|---------------|---------|
| Modulation                                                     | Channel | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
| QPSK                                                           | LCH     | 5.63                          | <13           | PASS    |
|                                                                | MCH     | 5.47                          | <13           | PASS    |
|                                                                | HCH     | 5.1                           | <13           | PASS    |
| 16QAM                                                          | LCH     | 6.63                          | <13           | PASS    |
|                                                                | MCH     | 6.44                          | <13           | PASS    |
|                                                                | HCH     | 6.08                          | <13           | PASS    |

#### Channel Bandwidth: 3 MHz

| Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz) |         |                               |               |         |
|--------------------------------------------------------------|---------|-------------------------------|---------------|---------|
| Modulation                                                   | Channel | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
| QPSK                                                         | LCH     | 5.69                          | <13           | PASS    |
|                                                              | MCH     | 5.49                          | <13           | PASS    |
|                                                              | HCH     | 5.4                           | <13           | PASS    |
| 16QAM                                                        | LCH     | 6.53                          | <13           | PASS    |
|                                                              | MCH     | 6.43                          | <13           | PASS    |
|                                                              | HCH     | 6.14                          | <13           | PASS    |

#### Channel Bandwidth: 5 MHz

| Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz) |         |                               |               |         |
|--------------------------------------------------------------|---------|-------------------------------|---------------|---------|
| Modulation                                                   | Channel | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
| QPSK                                                         | LCH     | 5.75                          | <13           | PASS    |
|                                                              | MCH     | 5.56                          | <13           | PASS    |
|                                                              | HCH     | 5.39                          | <13           | PASS    |
| 16QAM                                                        | LCH     | 6.53                          | <13           | PASS    |
|                                                              | MCH     | 6.39                          | <13           | PASS    |
|                                                              | HCH     | 6.21                          | <13           | PASS    |

### Channel Bandwidth: 10 MHz

| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz) |         |                            |            |         |
|---------------------------------------------------------------|---------|----------------------------|------------|---------|
| Modulation                                                    | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK                                                          | LCH     | 5.78                       | <13        | PASS    |
|                                                               | MCH     | 5.59                       | <13        | PASS    |
|                                                               | HCH     | 5.67                       | <13        | PASS    |
| 16QAM                                                         | LCH     | 6.47                       | <13        | PASS    |
|                                                               | MCH     | 6.3                        | <13        | PASS    |
|                                                               | HCH     | 6.37                       | <13        | PASS    |

### Channel Bandwidth: 15 MHz

| Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz) |         |                            |            |         |
|---------------------------------------------------------------|---------|----------------------------|------------|---------|
| Modulation                                                    | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK                                                          | LCH     | 5.05                       | <13        | PASS    |
|                                                               | MCH     | 5.01                       | <13        | PASS    |
|                                                               | HCH     | 5.06                       | <13        | PASS    |
| 16QAM                                                         | LCH     | 6.37                       | <13        | PASS    |
|                                                               | MCH     | 6.28                       | <13        | PASS    |
|                                                               | HCH     | 6.27                       | <13        | PASS    |

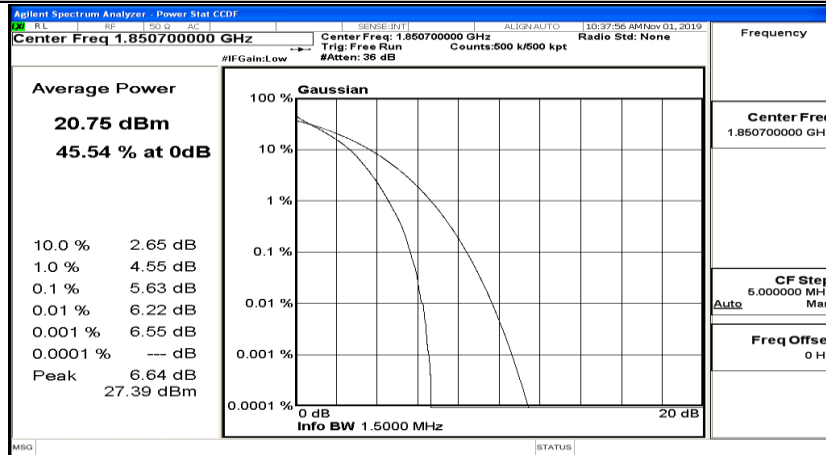
### Channel Bandwidth: 20 MHz

| Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz) |         |                            |            |         |
|---------------------------------------------------------------|---------|----------------------------|------------|---------|
| Modulation                                                    | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK                                                          | LCH     | 5.72                       | <13        | PASS    |
|                                                               | MCH     | 5.72                       | <13        | PASS    |
|                                                               | HCH     | 5.74                       | <13        | PASS    |
| 16QAM                                                         | LCH     | 6.88                       | <13        | PASS    |
|                                                               | MCH     | 6.77                       | <13        | PASS    |
|                                                               | HCH     | 6.73                       | <13        | PASS    |

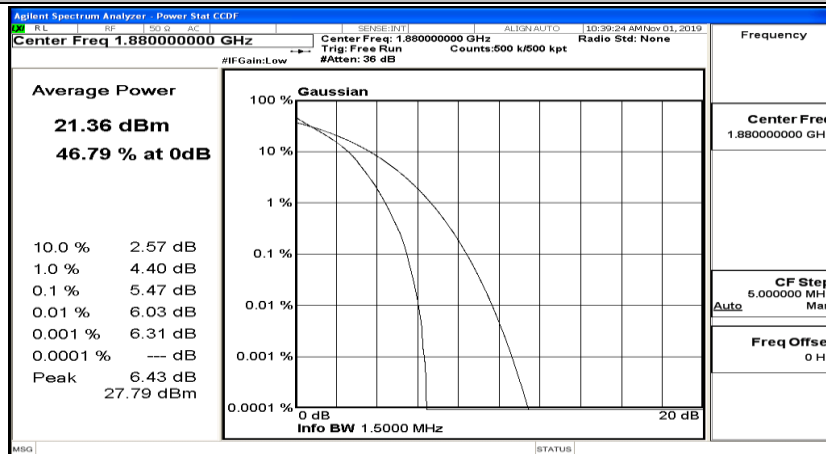
## Test Graphs

### Channel Bandwidth: 1.4 MHz

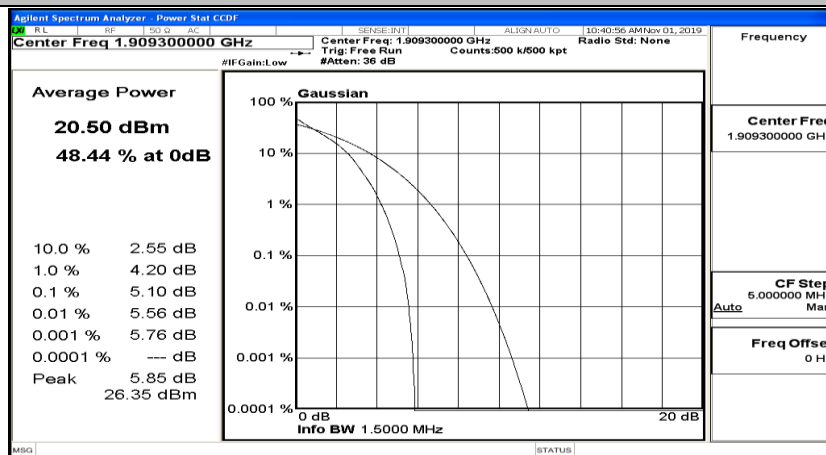
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



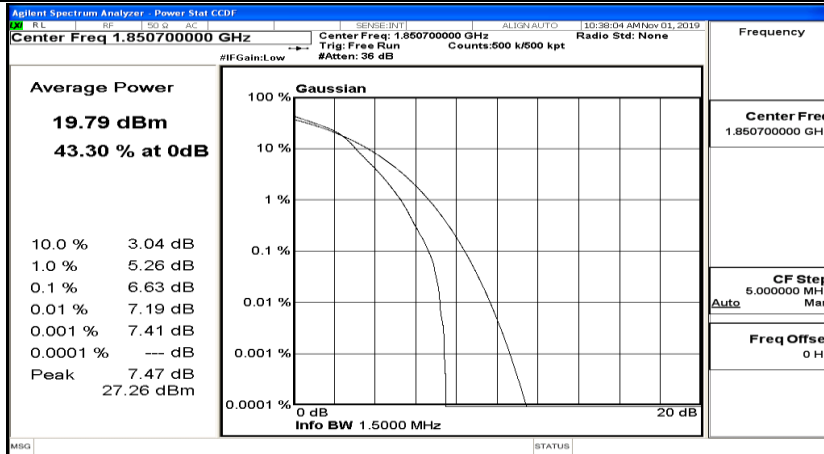
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



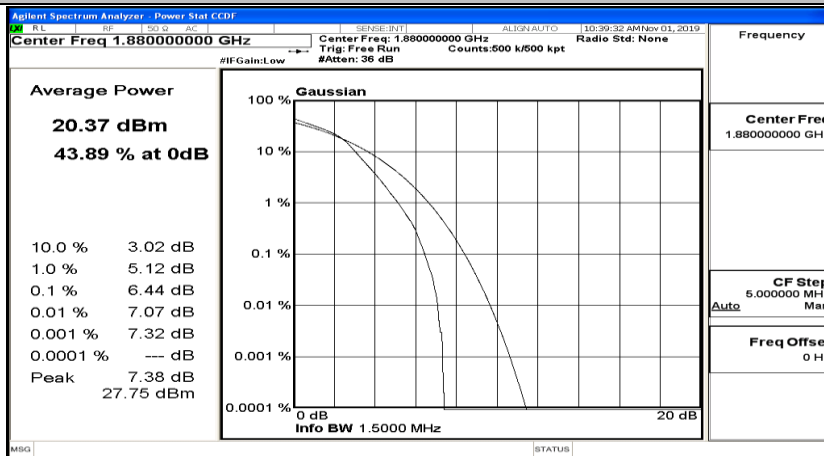
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



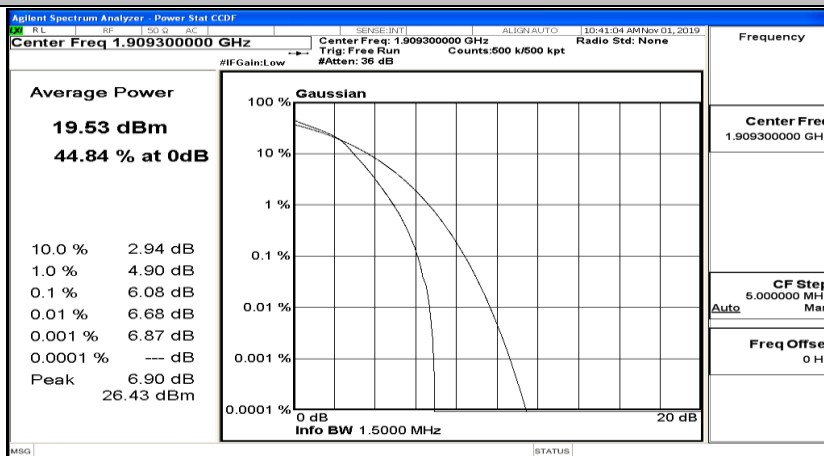
# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM

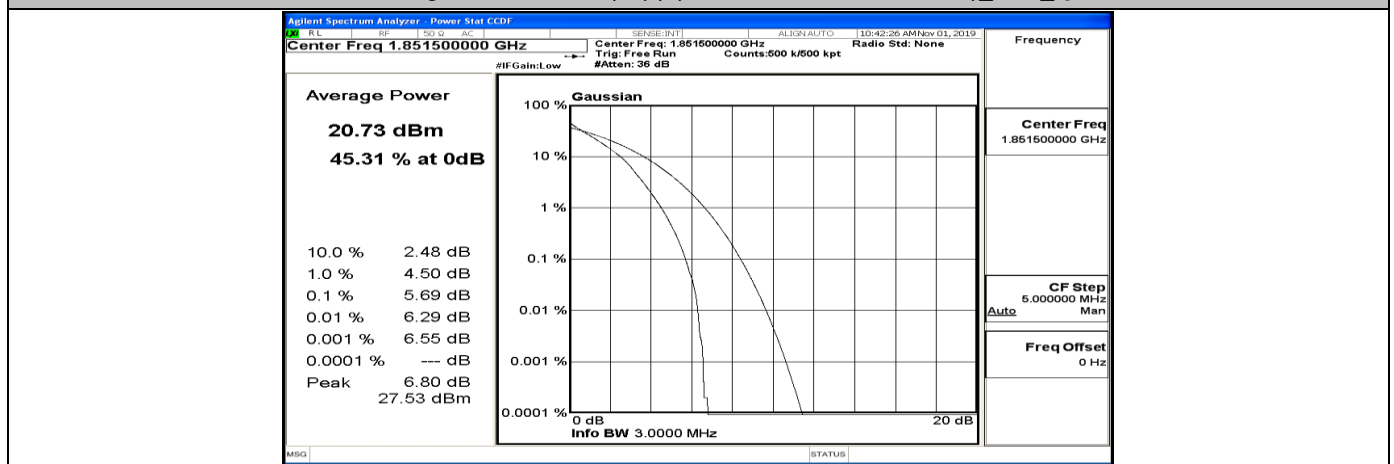


# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM

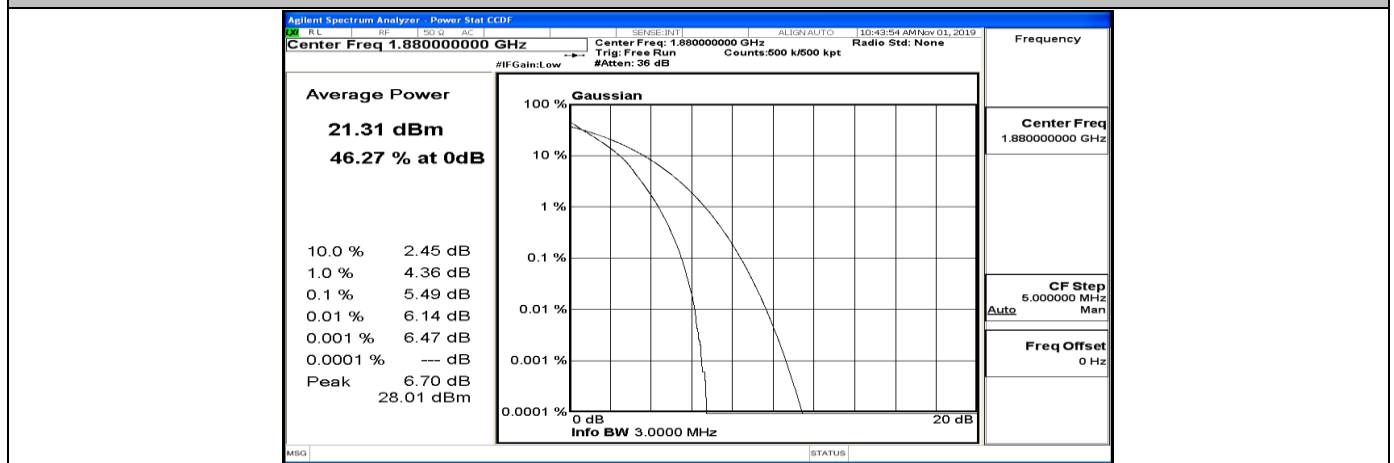


## Channel Bandwidth: 3 MHz

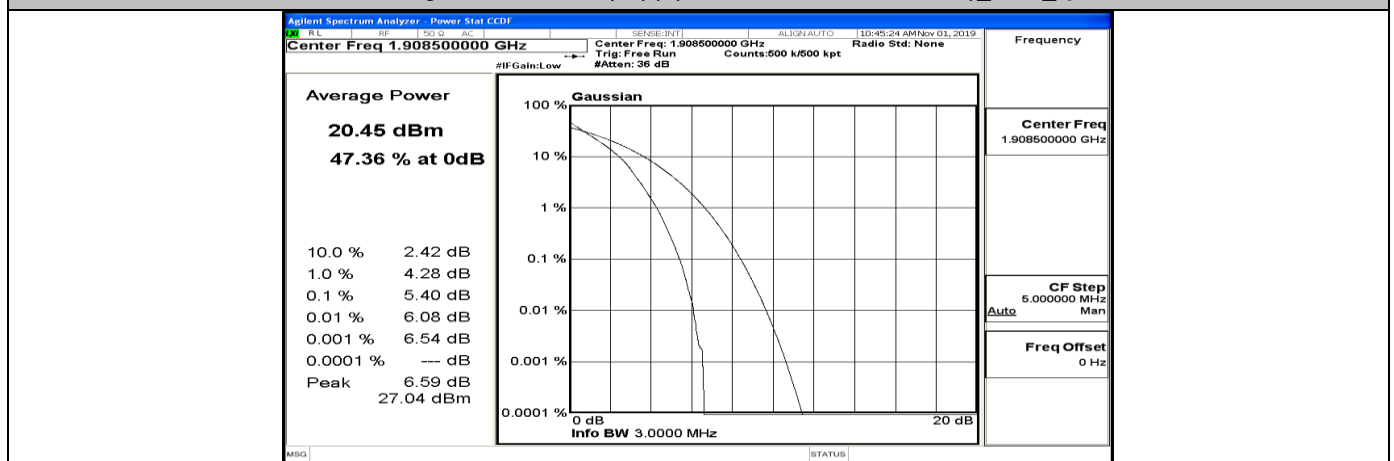
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



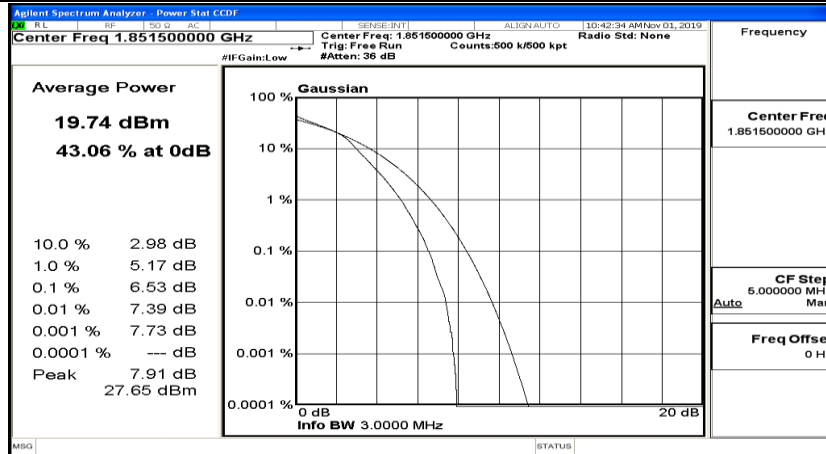
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



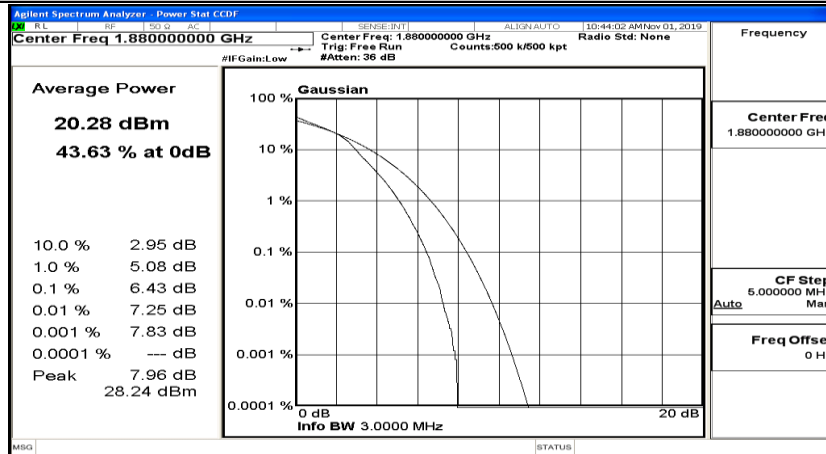
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



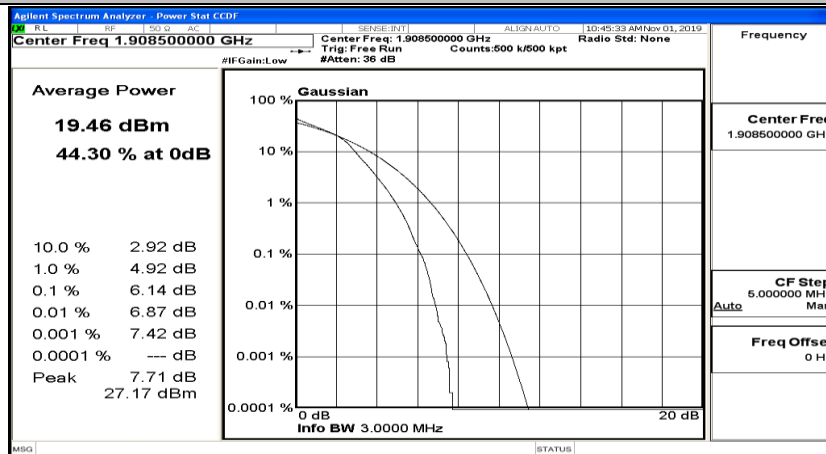
# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM

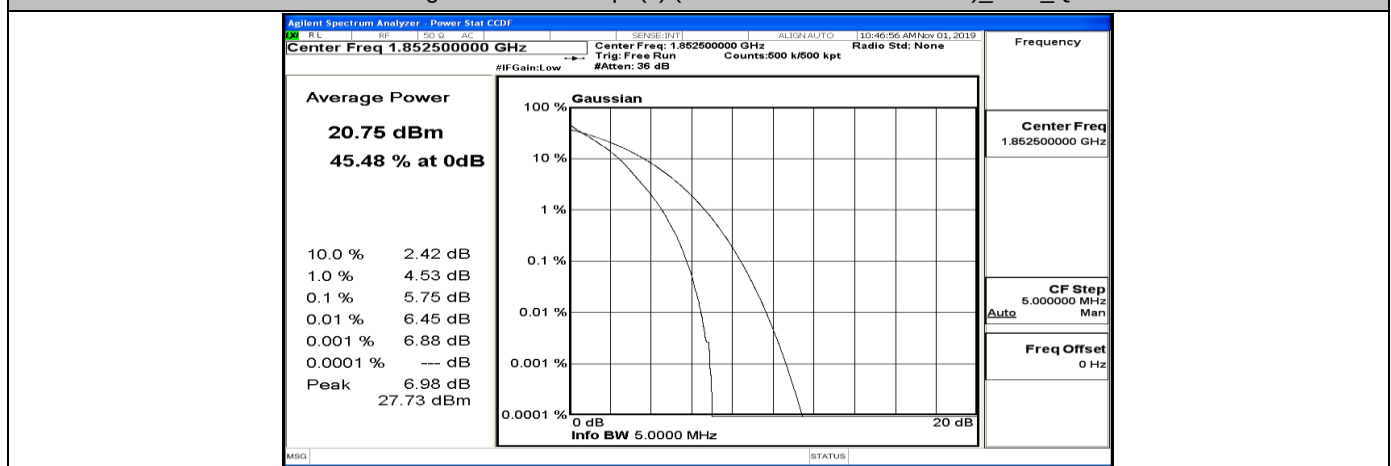


# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM

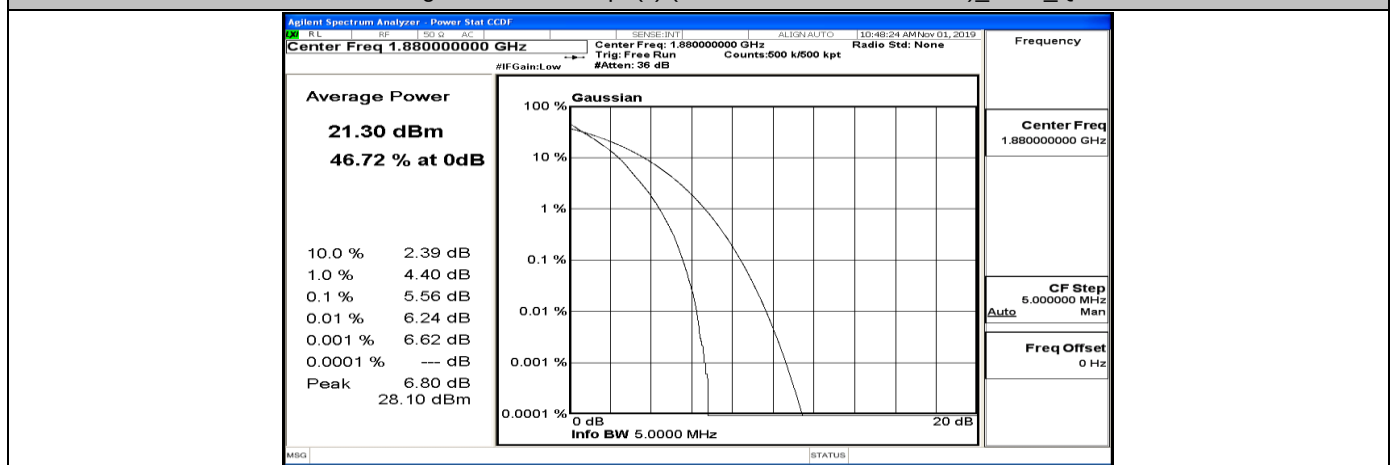


## Channel Bandwidth: 5 MHz

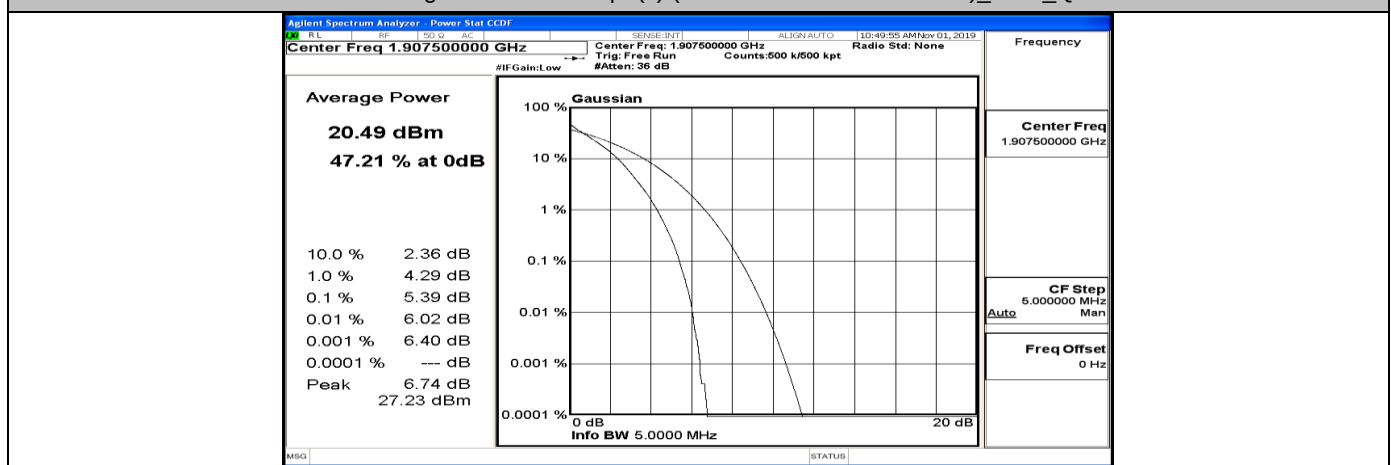
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



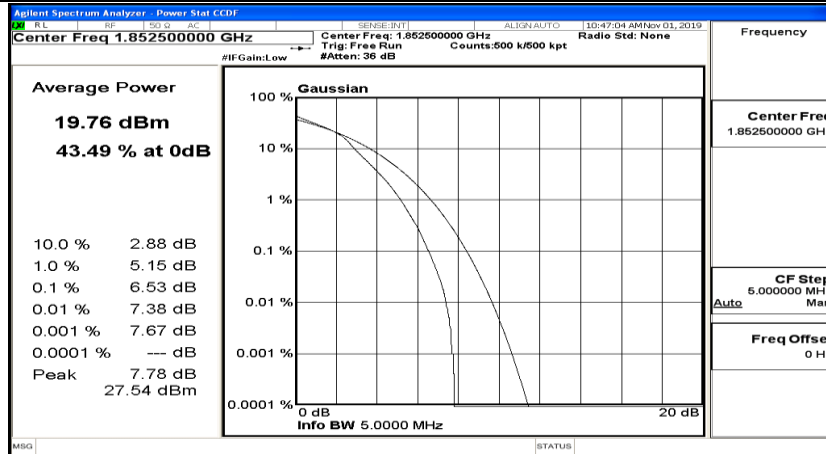
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



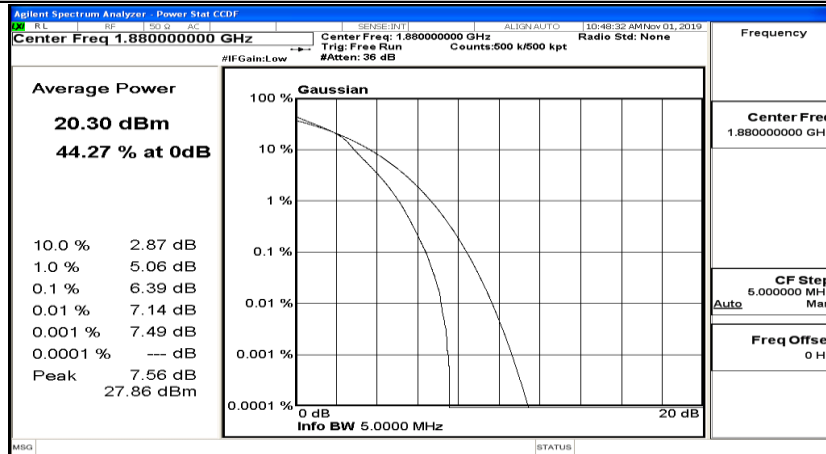
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



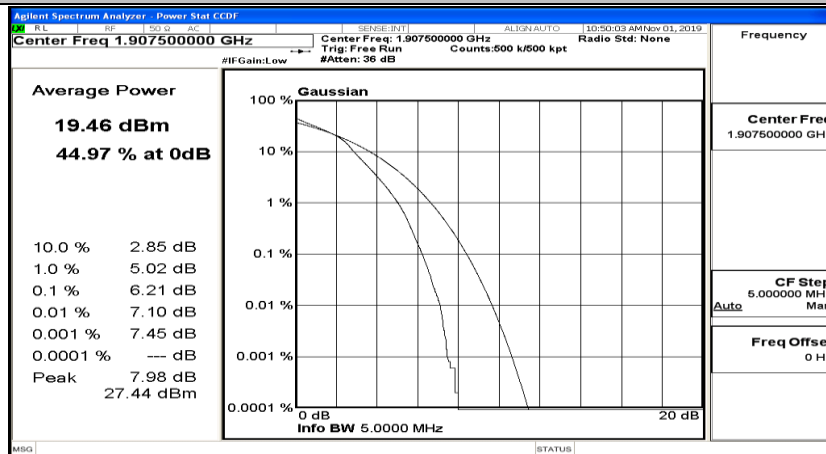
# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM

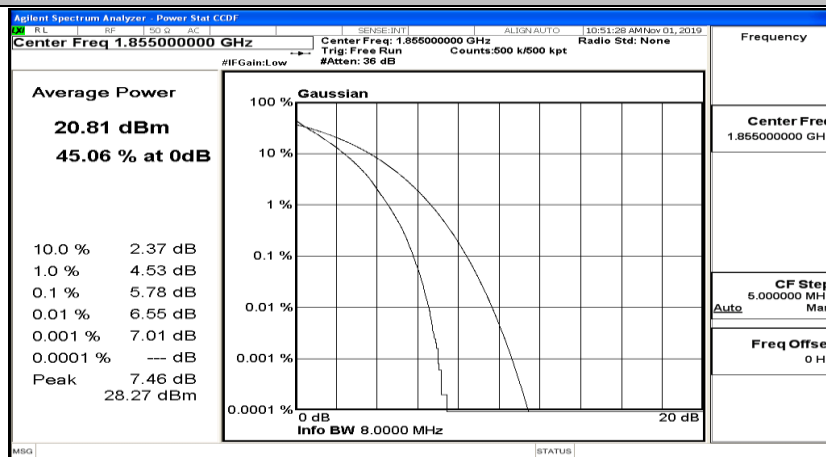


# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM

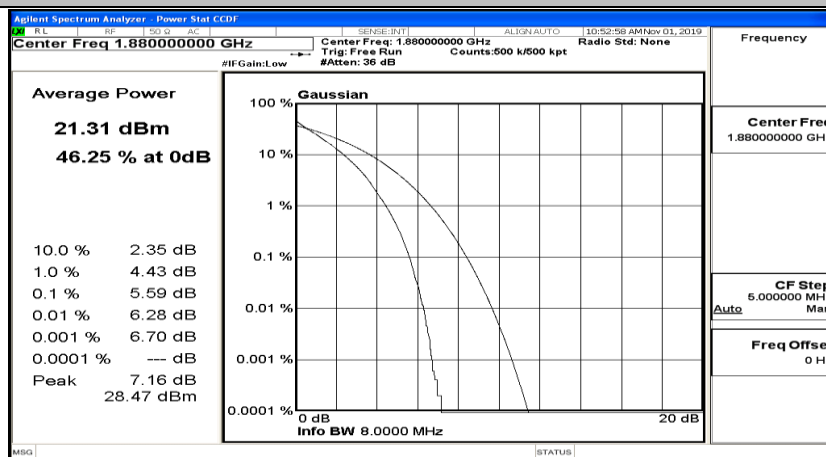


## Channel Bandwidth: 10 MHz

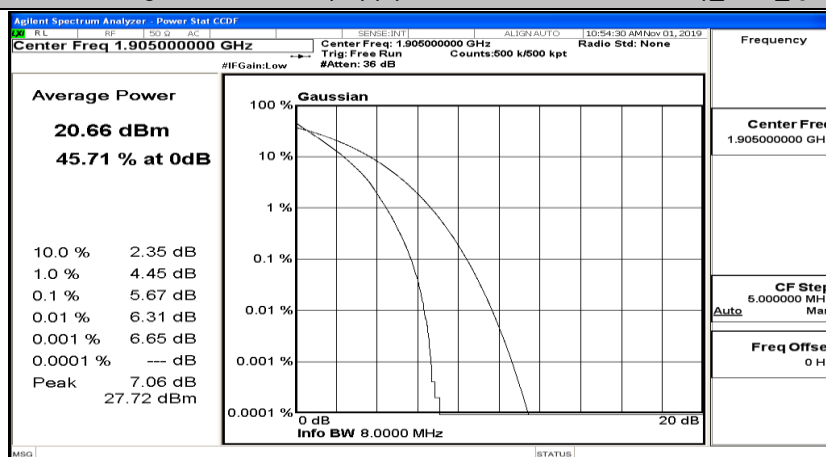
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



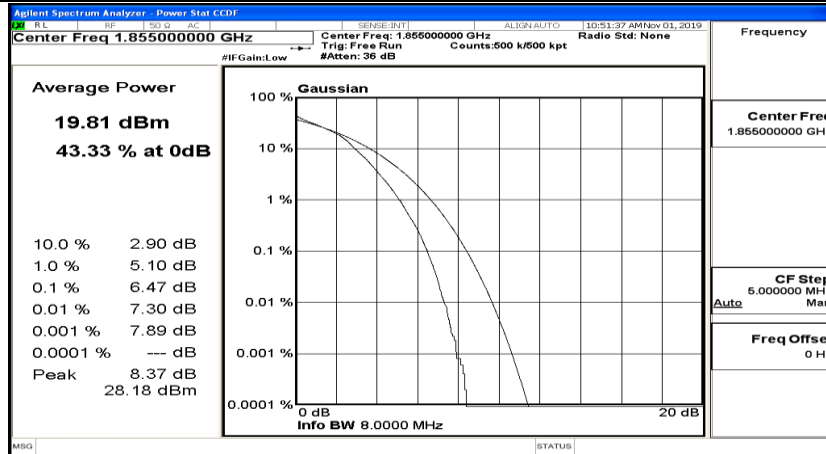
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



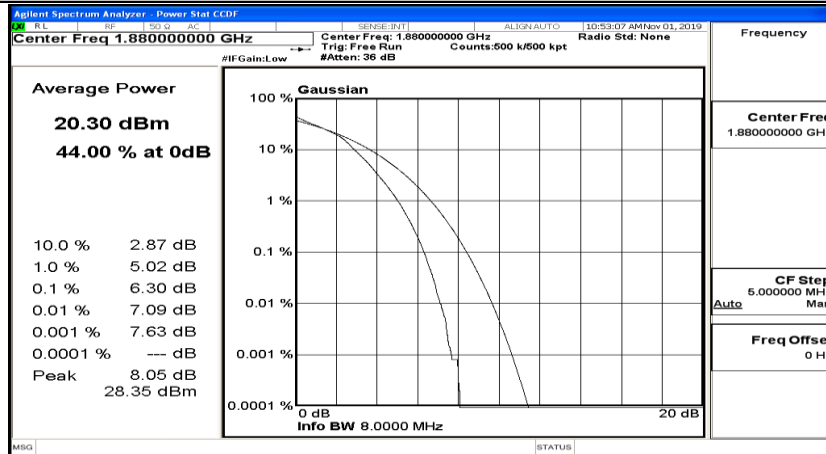
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



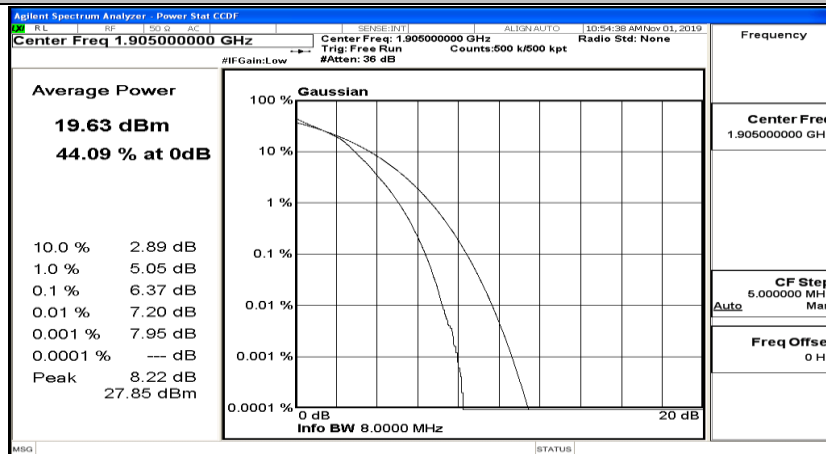
# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

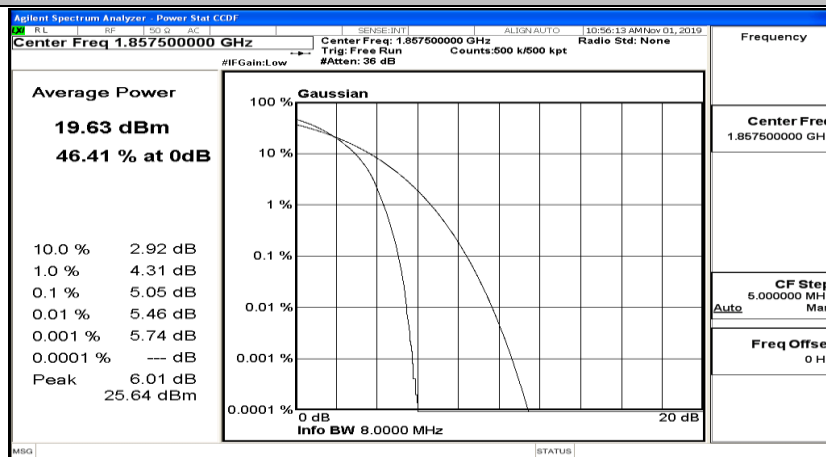


# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

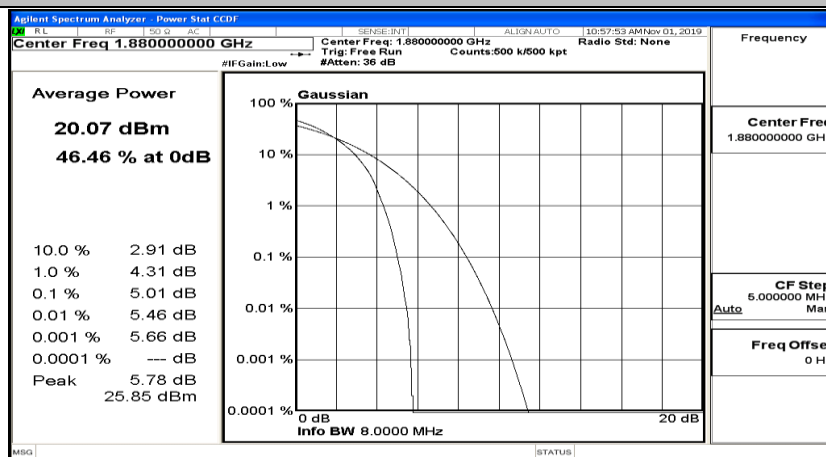


## Channel Bandwidth: 15 MHz

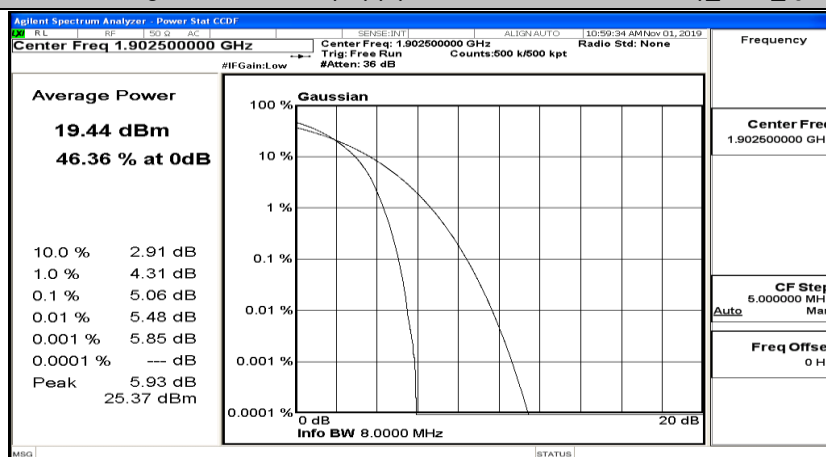
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



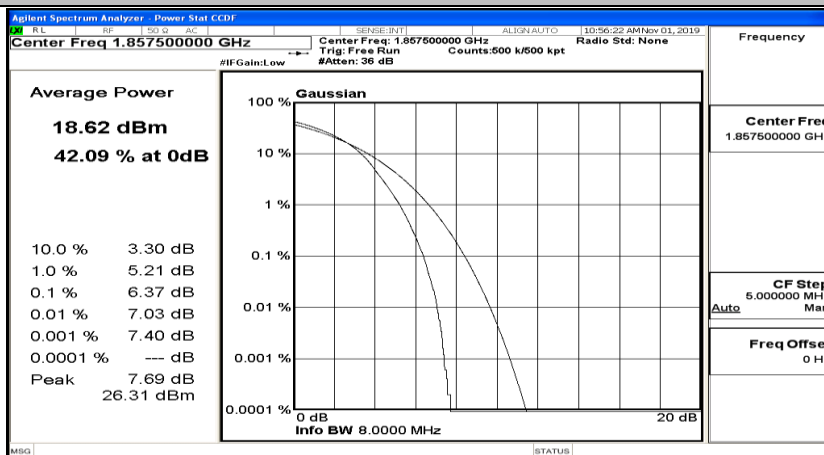
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



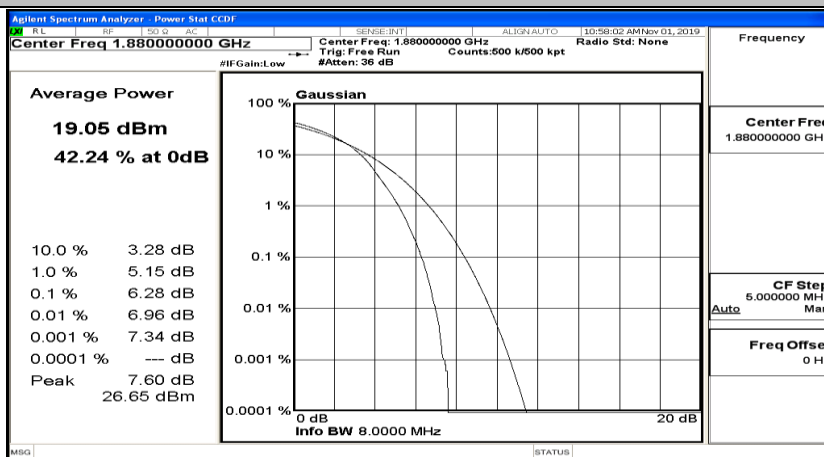
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



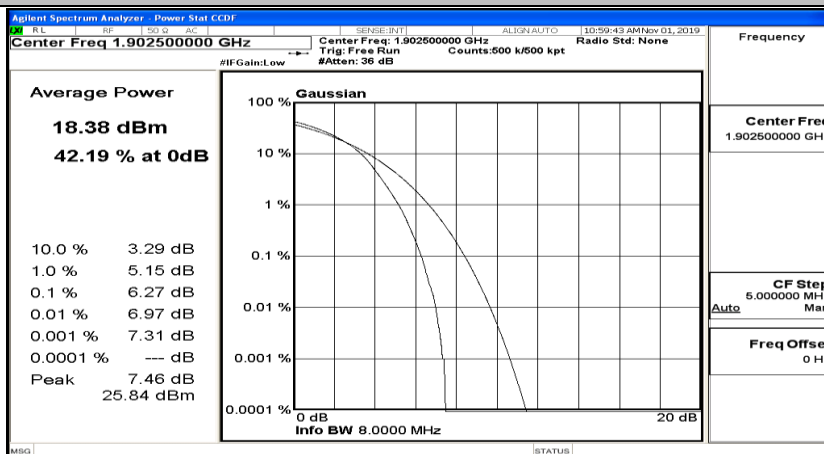
# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_16QAM

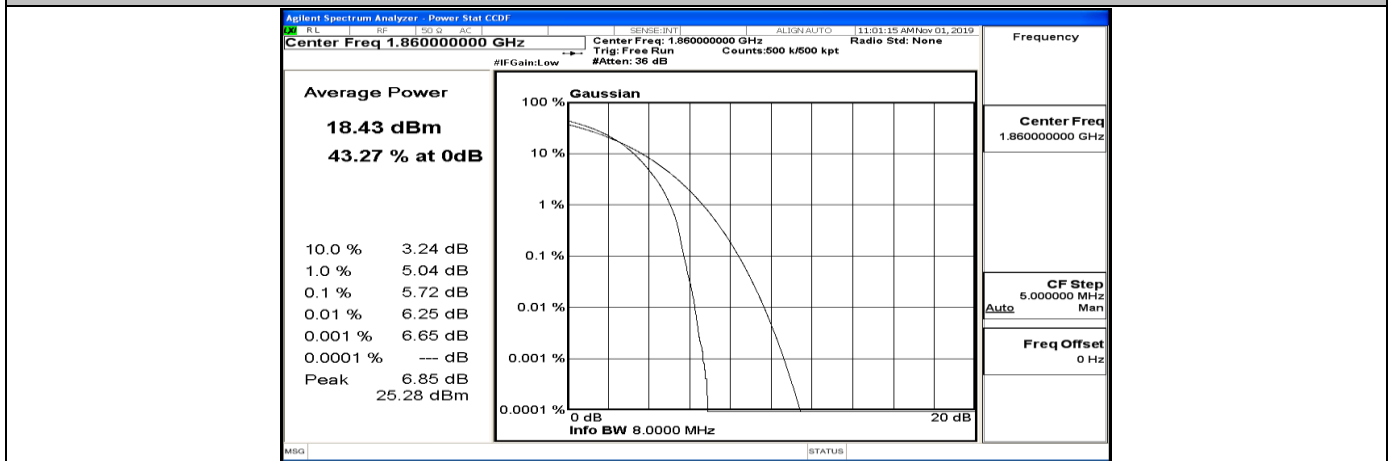


# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM

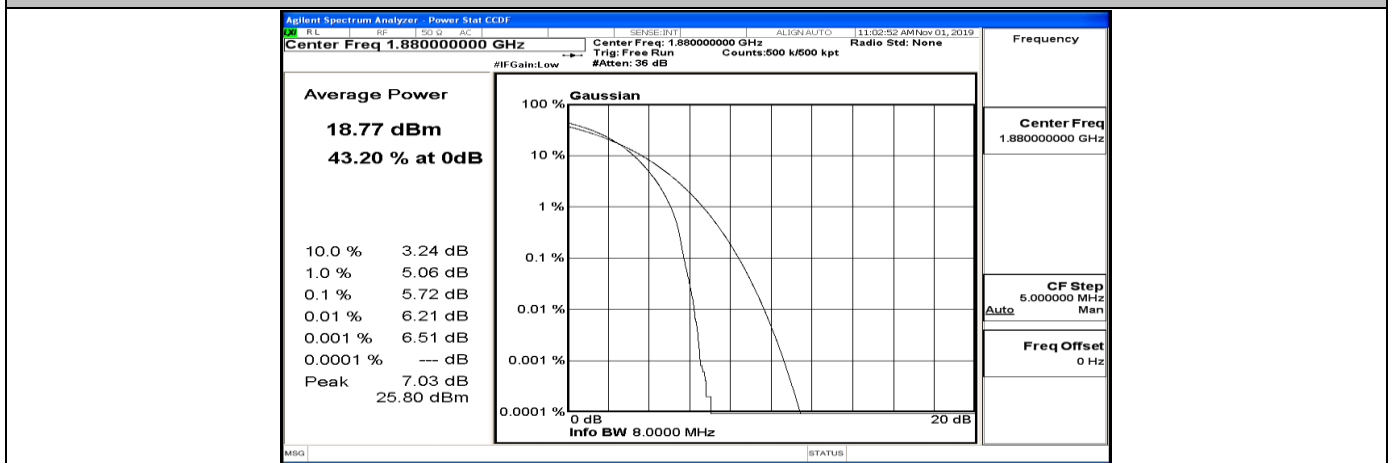


## Channel Bandwidth: 20 MHz

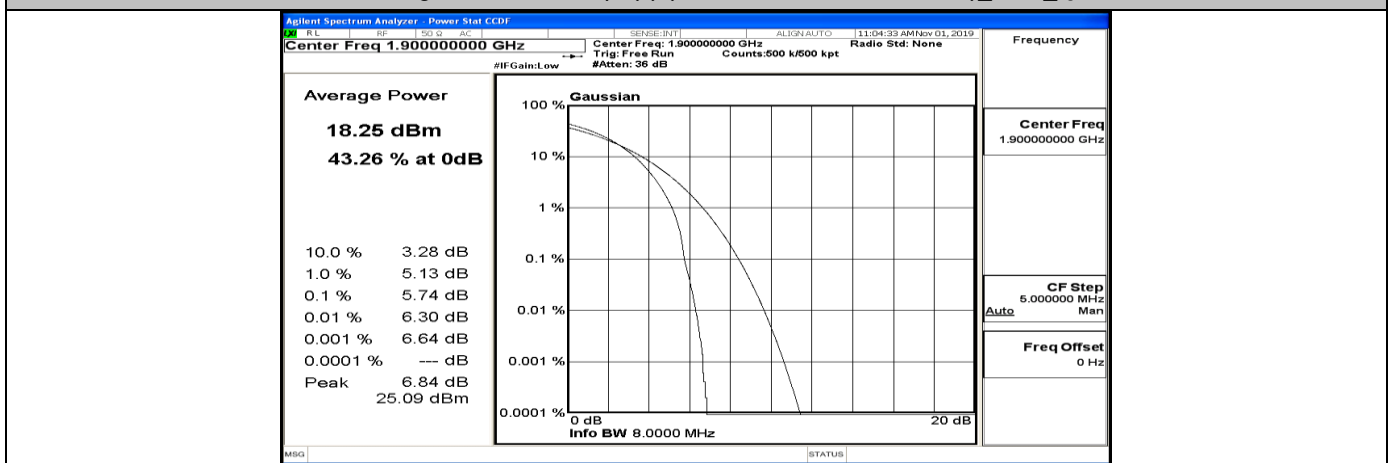
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK



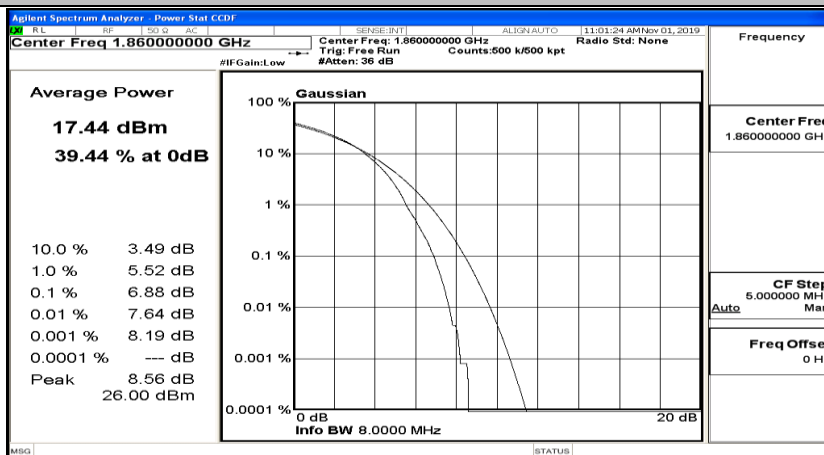
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_QPSK



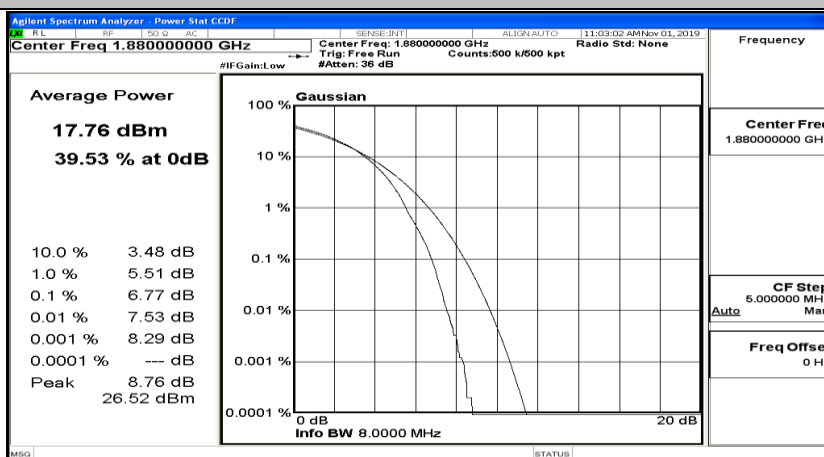
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK



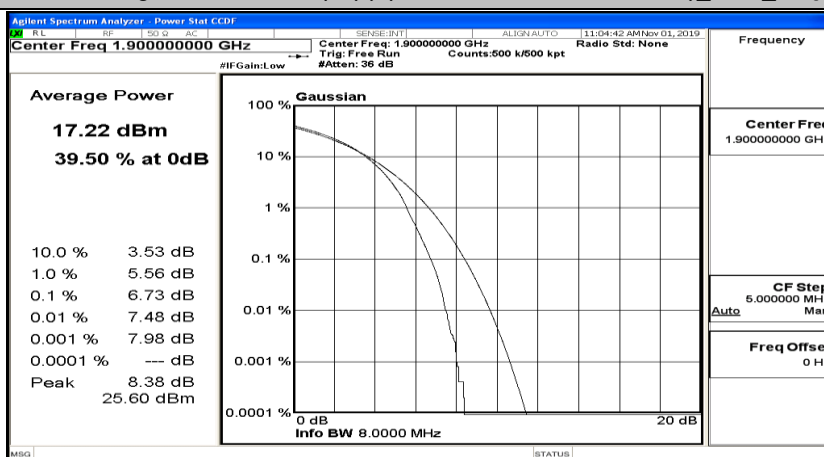
# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_16QAM



# Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_16QAM



### A.3 26dB Bandwidth and Occupied Bandwidth

#### Test Result

##### Channel Bandwidth: 1.4 MHz

| EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz) |         |                          |                      |         |
|----------------------------------------------------|---------|--------------------------|----------------------|---------|
| Modulation                                         | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK                                               | LCH     | 1.0759                   | 1.216                | PASS    |
|                                                    | MCH     | 1.0754                   | 1.249                | PASS    |
|                                                    | HCH     | 1.0766                   | 1.226                | PASS    |
| 16QAM                                              | LCH     | 1.0803                   | 1.238                | PASS    |
|                                                    | MCH     | 1.0764                   | 1.220                | PASS    |
|                                                    | HCH     | 1.0756                   | 1.213                | PASS    |

##### Channel Bandwidth: 3 MHz

| EBW & OBW Test Result (Channel Bandwidth: 3 MHz) |         |                          |                      |         |
|--------------------------------------------------|---------|--------------------------|----------------------|---------|
| Modulation                                       | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK                                             | LCH     | 2.6798                   | 2.826                | PASS    |
|                                                  | MCH     | 2.6800                   | 2.831                | PASS    |
|                                                  | HCH     | 2.6794                   | 2.828                | PASS    |
| 16QAM                                            | LCH     | 2.6768                   | 2.823                | PASS    |
|                                                  | MCH     | 2.6838                   | 2.830                | PASS    |
|                                                  | HCH     | 2.6824                   | 2.822                | PASS    |

##### Channel Bandwidth: 5 MHz

| EBW & OBW Test Result (Channel Bandwidth: 5 MHz) |         |                          |                      |         |
|--------------------------------------------------|---------|--------------------------|----------------------|---------|
| Modulation                                       | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK                                             | LCH     | 4.4837                   | 4.917                | PASS    |
|                                                  | MCH     | 4.4742                   | 4.846                | PASS    |
|                                                  | HCH     | 4.4697                   | 4.903                | PASS    |
| 16QAM                                            | LCH     | 4.4705                   | 4.877                | PASS    |
|                                                  | MCH     | 4.4829                   | 4.876                | PASS    |
|                                                  | HCH     | 4.4856                   | 4.870                | PASS    |

### Channel Bandwidth: 10 MHz

| EBW & OBW Test Result (Channel Bandwidth: 10 MHz) |         |                          |                      |         |
|---------------------------------------------------|---------|--------------------------|----------------------|---------|
| Modulation                                        | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK                                              | LCH     | 8.9496                   | 9.581                | PASS    |
|                                                   | MCH     | 8.9402                   | 9.532                | PASS    |
|                                                   | HCH     | 8.9477                   | 9.542                | PASS    |
| 16QAM                                             | LCH     | 8.9445                   | 9.516                | PASS    |
|                                                   | MCH     | 8.9434                   | 9.633                | PASS    |
|                                                   | HCH     | 8.9562                   | 9.568                | PASS    |

### Channel Bandwidth: 15 MHz

| EBW & OBW Test Result (Channel Bandwidth: 15 MHz) |         |                          |                      |         |
|---------------------------------------------------|---------|--------------------------|----------------------|---------|
| Modulation                                        | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK                                              | LCH     | 13.398                   | 14.12                | PASS    |
|                                                   | MCH     | 13.422                   | 14.09                | PASS    |
|                                                   | HCH     | 13.424                   | 14.01                | PASS    |
| 16QAM                                             | LCH     | 13.405                   | 14.13                | PASS    |
|                                                   | MCH     | 13.418                   | 14.03                | PASS    |
|                                                   | HCH     | 13.419                   | 14.11                | PASS    |

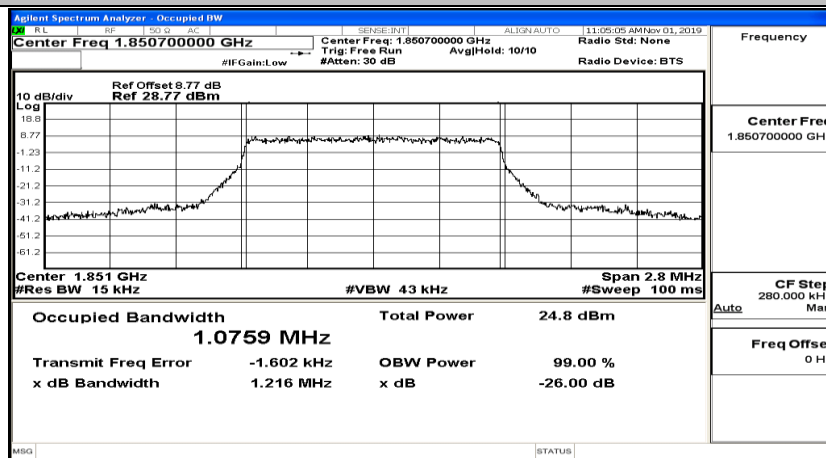
### Channel Bandwidth: 20 MHz

| EBW & OBW Test Result (Channel Bandwidth: 20 MHz) |         |                          |                      |         |
|---------------------------------------------------|---------|--------------------------|----------------------|---------|
| Modulation                                        | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK                                              | LCH     | 17.865                   | 18.68                | PASS    |
|                                                   | MCH     | 17.877                   | 18.65                | PASS    |
|                                                   | HCH     | 17.858                   | 18.61                | PASS    |
| 16QAM                                             | LCH     | 17.868                   | 18.67                | PASS    |
|                                                   | MCH     | 17.901                   | 18.65                | PASS    |
|                                                   | HCH     | 17.863                   | 18.56                | PASS    |

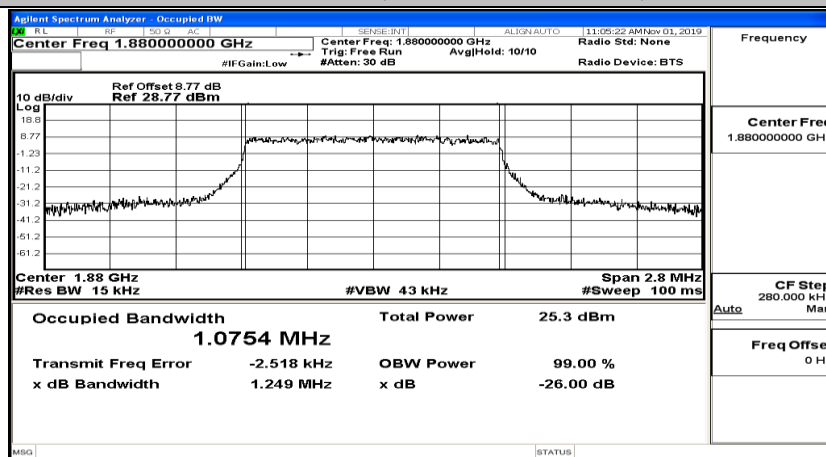
## Test Graphs

### Channel Bandwidth: 1.4 MHz

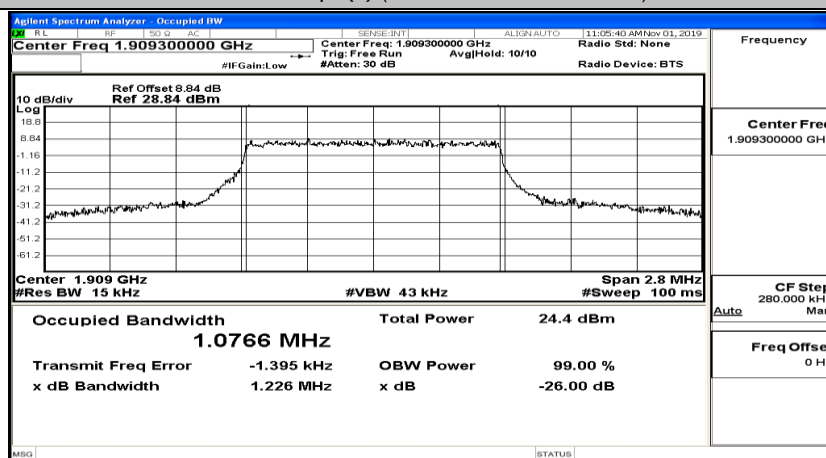
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



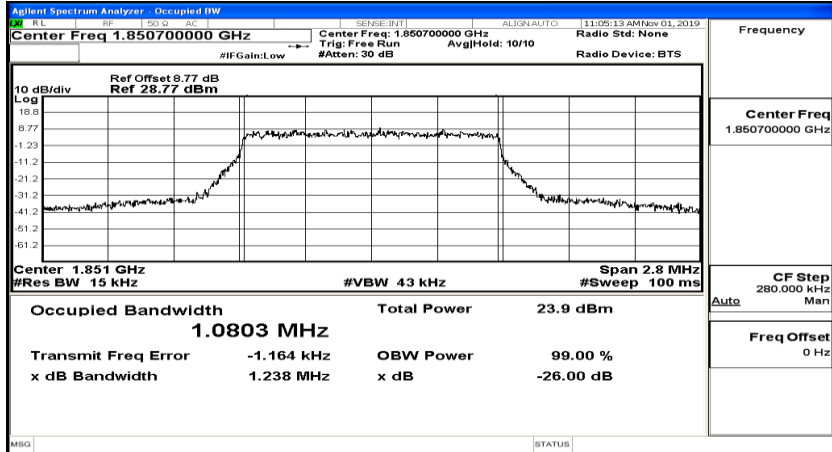
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



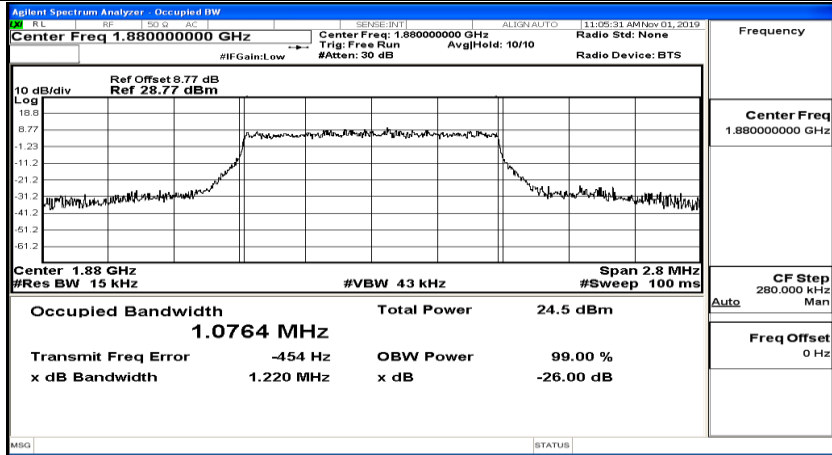
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



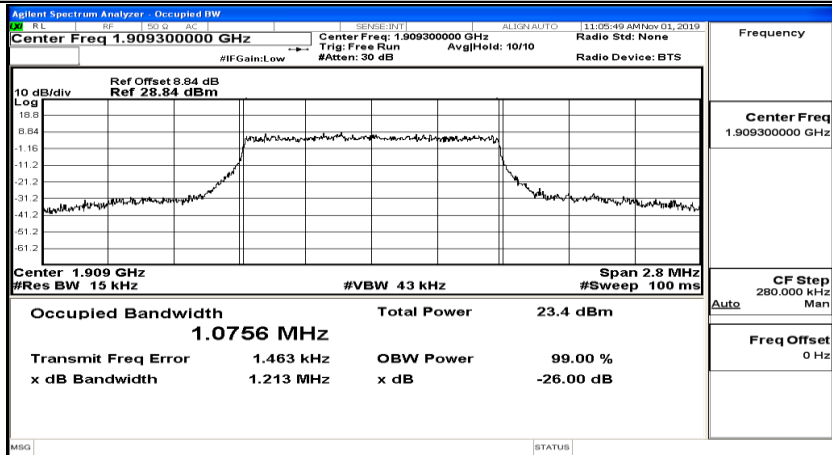
# EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



# EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM

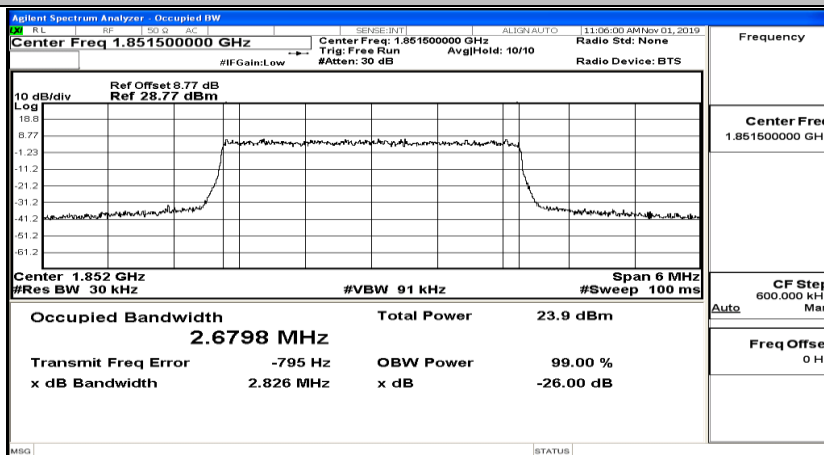


# EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM

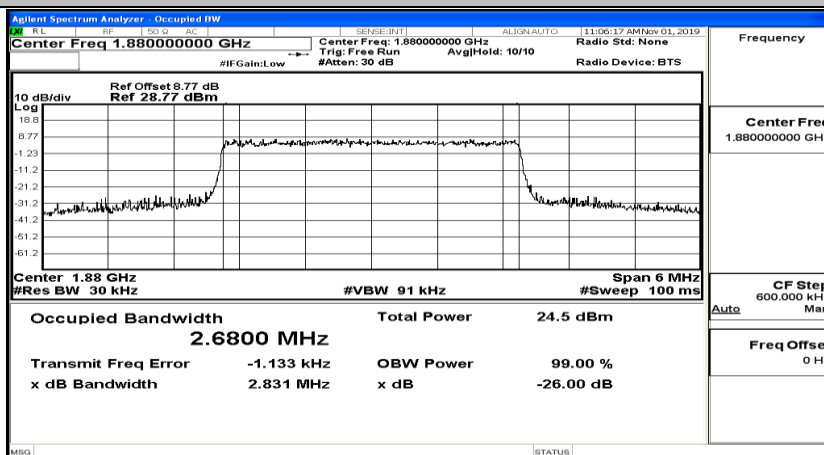


## Channel Bandwidth: 3 MHz

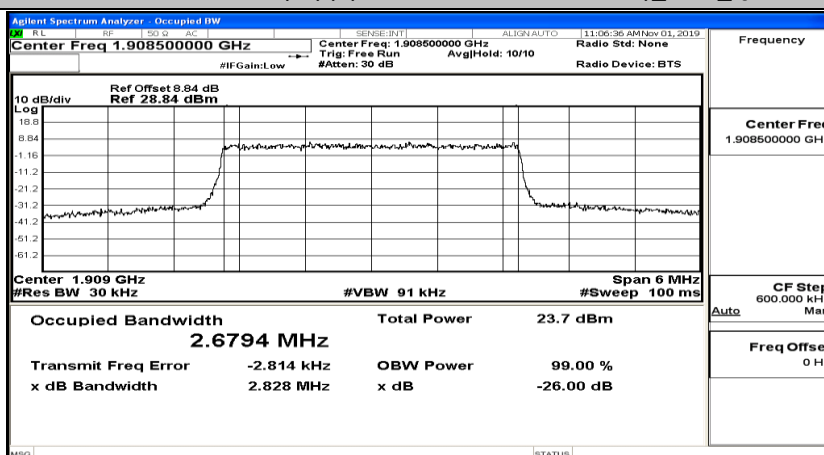
### EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



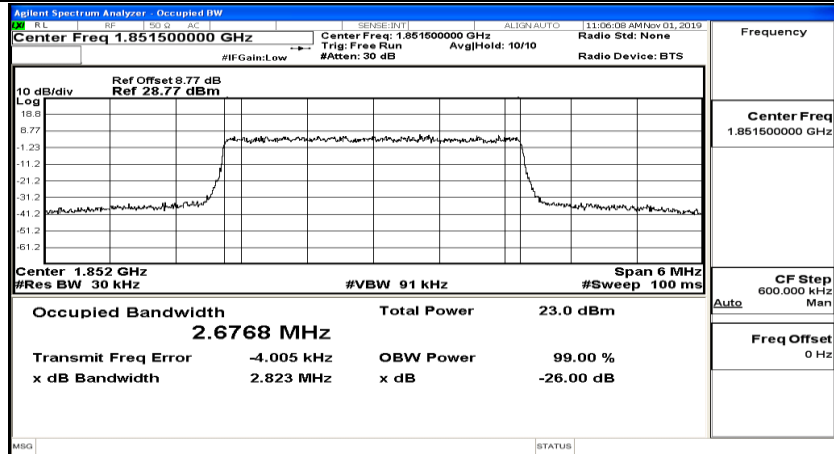
### EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



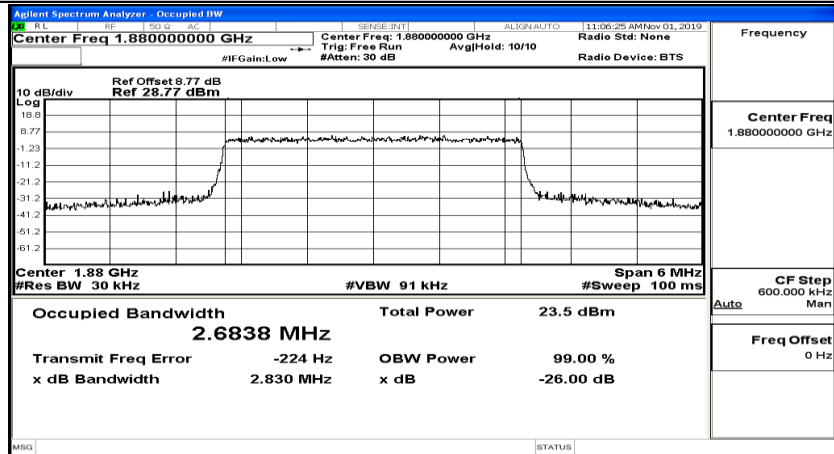
### EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



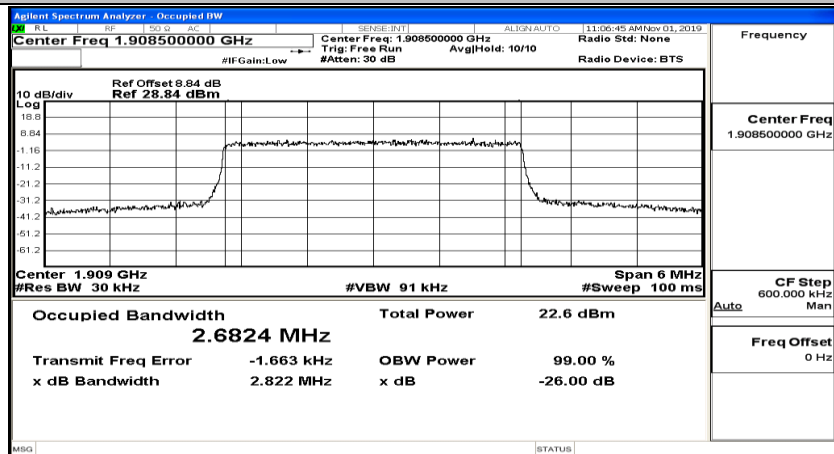
### EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



### EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM

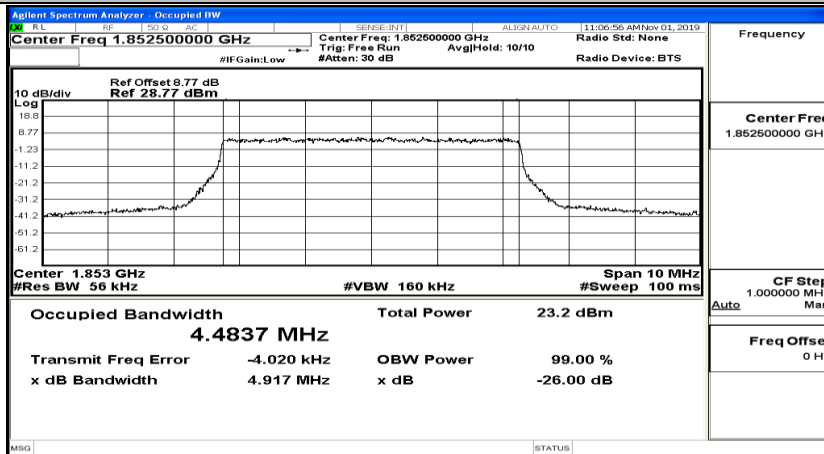


### EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM

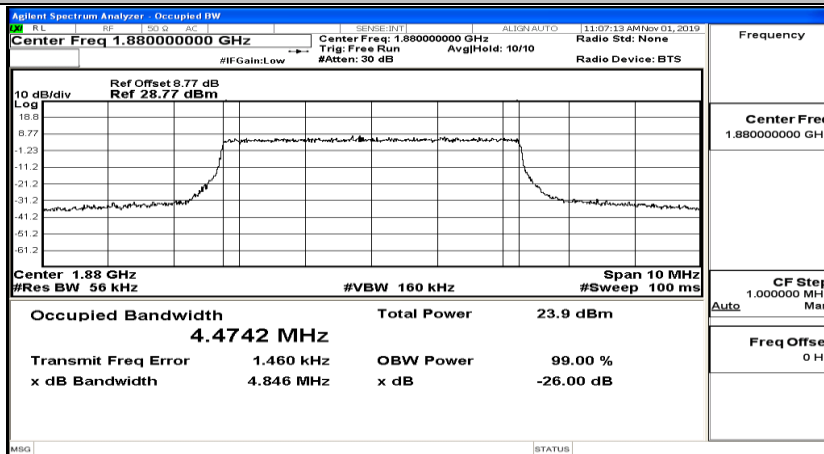


## Channel Bandwidth: 5 MHz

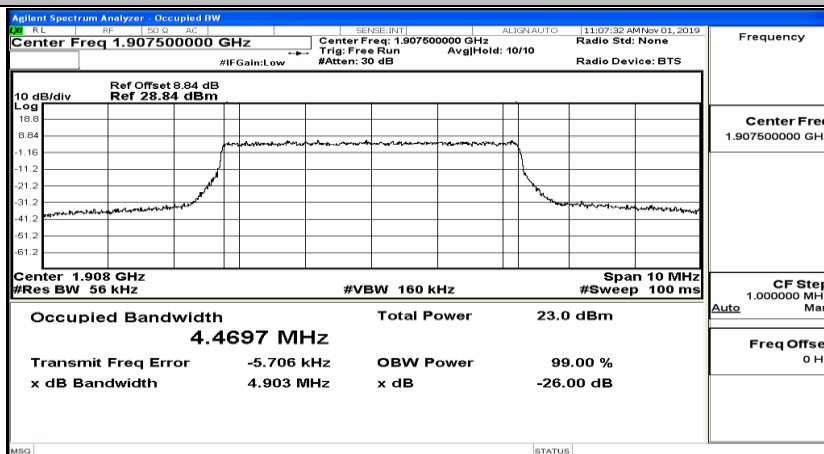
### EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



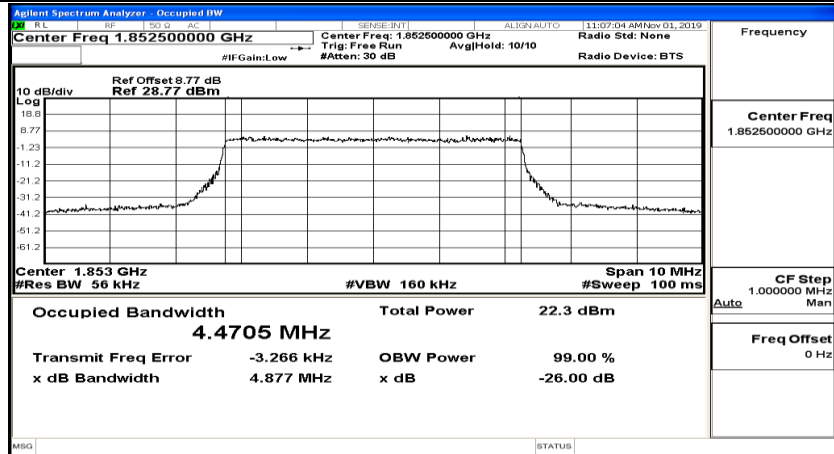
### EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



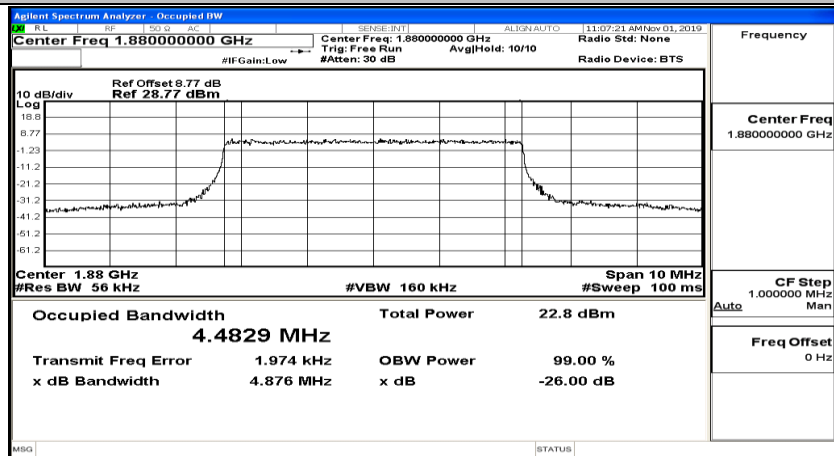
### EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



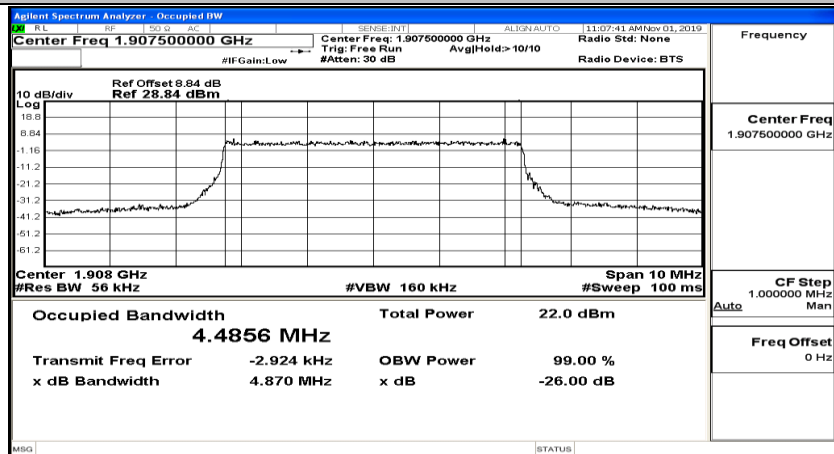
### EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



### EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM

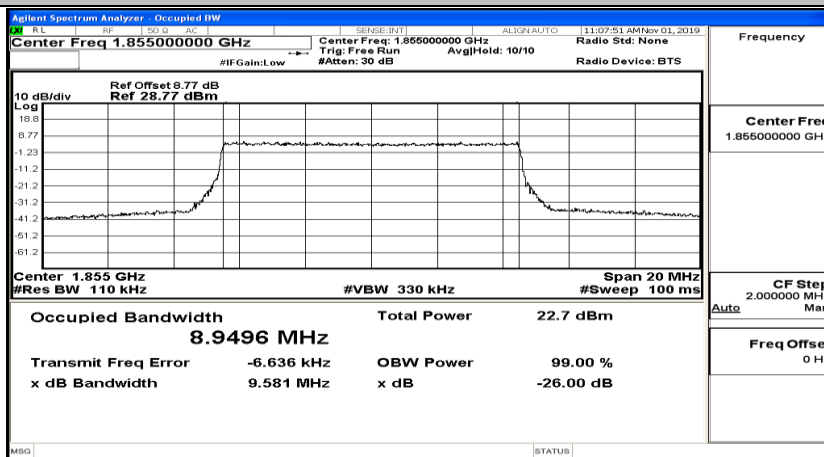


### EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM

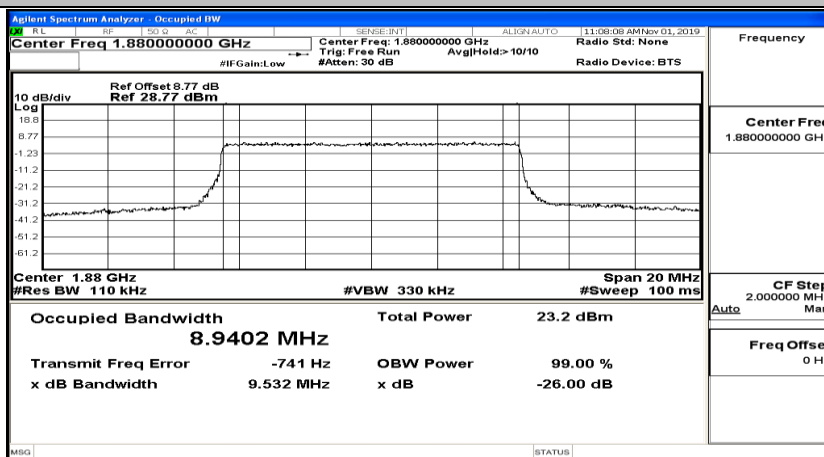


## Channel Bandwidth: 10 MHz

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK

