

## Appendix for Band 4

### Appendix A: Average Power Output Data

#### Test Result

Channel Bandwidth: 1.4 MHz

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 22.88               | PASS    |
|            |         | 1                | 3      | 22.83               | PASS    |
|            |         | 1                | 5      | 22.89               | PASS    |
|            |         | 3                | 0      | 22.22               | PASS    |
|            |         | 3                | 2      | 22.29               | PASS    |
|            |         | 3                | 3      | 22.23               | PASS    |
|            |         | 6                | 0      | 21.45               | PASS    |
|            | MCH     | 1                | 0      | 22.29               | PASS    |
|            |         | 1                | 3      | 22.3                | PASS    |
|            |         | 1                | 5      | 22.25               | PASS    |
|            |         | 3                | 0      | 22.33               | PASS    |
|            |         | 3                | 2      | 22.24               | PASS    |
|            |         | 3                | 3      | 22.31               | PASS    |
|            |         | 6                | 0      | 21.82               | PASS    |
|            | HCH     | 1                | 0      | 22.66               | PASS    |
|            |         | 1                | 3      | 22.59               | PASS    |
|            |         | 1                | 5      | 22.49               | PASS    |
|            |         | 3                | 0      | 22.05               | PASS    |
|            |         | 3                | 2      | 22.01               | PASS    |
|            |         | 3                | 3      | 22.04               | PASS    |
|            |         | 6                | 0      | 21.64               | PASS    |
| 16QAM      | LCH     | 1                | 0      | 22.02               | PASS    |
|            |         | 1                | 3      | 22.07               | PASS    |
|            |         | 1                | 5      | 22.06               | PASS    |
|            |         | 3                | 0      | 21.19               | PASS    |
|            |         | 3                | 2      | 21.24               | PASS    |
|            |         | 3                | 3      | 21.22               | PASS    |
|            |         | 6                | 0      | 20.36               | PASS    |
|            | MCH     | 1                | 0      | 22.01               | PASS    |
|            |         | 1                | 3      | 21.95               | PASS    |
|            |         | 1                | 5      | 22.01               | PASS    |

|  |     |   |   |       |      |
|--|-----|---|---|-------|------|
|  |     | 3 | 0 | 21.78 | PASS |
|  |     | 3 | 2 | 21.7  | PASS |
|  |     | 3 | 3 | 21.78 | PASS |
|  |     | 6 | 0 | 20.95 | PASS |
|  | HCH | 1 | 0 | 21.74 | PASS |
|  |     | 1 | 3 | 21.71 | PASS |
|  |     | 1 | 5 | 21.71 | PASS |
|  |     | 3 | 0 | 21.92 | PASS |
|  |     | 3 | 2 | 21.83 | PASS |
|  |     | 3 | 3 | 21.82 | PASS |
|  |     | 6 | 0 | 20.55 | PASS |

**Channel Bandwidth: 3 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 22.85               | PASS    |
|            |         | 1                | 7      | 22.87               | PASS    |
|            |         | 1                | 14     | 22.89               | PASS    |
|            |         | 8                | 0      | 21.42               | PASS    |
|            |         | 8                | 4      | 21.46               | PASS    |
|            |         | 8                | 7      | 21.43               | PASS    |
|            |         | 15               | 0      | 21.47               | PASS    |
|            | MCH     | 1                | 0      | 22.31               | PASS    |
|            |         | 1                | 7      | 22.28               | PASS    |
|            |         | 1                | 14     | 22.34               | PASS    |
|            |         | 8                | 0      | 21.86               | PASS    |
|            |         | 8                | 4      | 21.88               | PASS    |
|            |         | 8                | 7      | 21.84               | PASS    |
|            |         | 15               | 0      | 21.76               | PASS    |
|            | HCH     | 1                | 0      | 22.45               | PASS    |
|            |         | 1                | 7      | 22.38               | PASS    |
|            |         | 1                | 14     | 22.34               | PASS    |
|            |         | 8                | 0      | 21.35               | PASS    |
|            |         | 8                | 4      | 21                  | PASS    |
|            |         | 8                | 7      | 21.96               | PASS    |
|            |         | 15               | 0      | 21.98               | PASS    |
| 16QAM      | LCH     | 1                | 0      | 22.45               | PASS    |
|            |         | 1                | 7      | 22.33               | PASS    |
|            |         | 1                | 14     | 22.5                | PASS    |
|            |         | 8                | 0      | 20.42               | PASS    |
|            |         | 8                | 4      | 20.42               | PASS    |
|            |         | 8                | 7      | 20.69               | PASS    |

|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  | MCH | 15 | 0  | 20.47 | PASS |
|  |     | 1  | 0  | 22.14 | PASS |
|  |     | 1  | 7  | 22.04 | PASS |
|  |     | 1  | 14 | 22.06 | PASS |
|  |     | 8  | 0  | 20.91 | PASS |
|  |     | 8  | 4  | 21.02 | PASS |
|  |     | 8  | 7  | 21.03 | PASS |
|  |     | 15 | 0  | 20.86 | PASS |
|  | HCH | 1  | 0  | 21.9  | PASS |
|  |     | 1  | 7  | 21.87 | PASS |
|  |     | 1  | 14 | 21.76 | PASS |
|  |     | 8  | 0  | 20.47 | PASS |
|  |     | 8  | 4  | 20.69 | PASS |
|  |     | 8  | 7  | 20.98 | PASS |
|  |     | 15 | 0  | 20.71 | PASS |

**Channel Bandwidth: 5 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 22.87               | PASS    |
|            |         | 1                | 12     | 22.93               | PASS    |
|            |         | 1                | 24     | 22.03               | PASS    |
|            |         | 12               | 0      | 21.46               | PASS    |
|            |         | 12               | 6      | 21.44               | PASS    |
|            |         | 12               | 13     | 21.44               | PASS    |
|            |         | 25               | 0      | 21.54               | PASS    |
|            | MCH     | 1                | 0      | 22.35               | PASS    |
|            |         | 1                | 12     | 22.29               | PASS    |
|            |         | 1                | 24     | 22.23               | PASS    |
|            |         | 12               | 0      | 21.81               | PASS    |
|            |         | 12               | 6      | 21.83               | PASS    |
|            |         | 12               | 13     | 21.77               | PASS    |
|            |         | 25               | 0      | 21.79               | PASS    |
|            | HCH     | 1                | 0      | 22.65               | PASS    |
|            |         | 1                | 12     | 22.58               | PASS    |
|            |         | 1                | 24     | 22.45               | PASS    |
|            |         | 12               | 0      | 21.99               | PASS    |
|            |         | 12               | 6      | 21.15               | PASS    |
|            |         | 12               | 13     | 21.32               | PASS    |
|            |         | 25               | 0      | 21                  | PASS    |
| 16QAM      | LCH     | 1                | 0      | 21.28               | PASS    |
|            |         | 1                | 12     | 21.33               | PASS    |

|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  |     | 1  | 24 | 21.43 | PASS |
|  |     | 12 | 0  | 20.56 | PASS |
|  |     | 12 | 6  | 20.35 | PASS |
|  |     | 12 | 13 | 20.33 | PASS |
|  |     | 25 | 0  | 20.54 | PASS |
|  | MCH | 1  | 0  | 21.54 | PASS |
|  |     | 1  | 12 | 21.47 | PASS |
|  |     | 1  | 24 | 21.45 | PASS |
|  |     | 12 | 0  | 21.02 | PASS |
|  |     | 12 | 6  | 20.96 | PASS |
|  |     | 12 | 13 | 20.9  | PASS |
|  |     | 25 | 0  | 21.12 | PASS |
|  | HCH | 1  | 0  | 21.8  | PASS |
|  |     | 1  | 12 | 21.81 | PASS |
|  |     | 1  | 24 | 21.56 | PASS |
|  |     | 12 | 0  | 20.87 | PASS |
|  |     | 12 | 6  | 20.94 | PASS |
|  |     | 12 | 13 | 20.89 | PASS |
|  |     | 25 | 0  | 20.76 | PASS |

### Channel Bandwidth: 10 MHz

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 22.86               | PASS    |
|            |         | 1                | 24     | 22.97               | PASS    |
|            |         | 1                | 49     | 22.17               | PASS    |
|            |         | 25               | 0      | 21.51               | PASS    |
|            |         | 25               | 12     | 21.6                | PASS    |
|            |         | 25               | 25     | 21.67               | PASS    |
|            |         | 50               | 0      | 21.63               | PASS    |
|            | MCH     | 1                | 0      | 22.39               | PASS    |
|            |         | 1                | 24     | 22.29               | PASS    |
|            |         | 1                | 49     | 22.14               | PASS    |
|            |         | 25               | 0      | 21.95               | PASS    |
|            |         | 25               | 12     | 21.89               | PASS    |
|            |         | 25               | 25     | 21.8                | PASS    |
|            |         | 50               | 0      | 21.8                | PASS    |
|            | HCH     | 1                | 0      | 22.87               | PASS    |
|            |         | 1                | 24     | 22.62               | PASS    |
|            |         | 1                | 49     | 22.47               | PASS    |
|            |         | 25               | 0      | 21.33               | PASS    |
|            |         | 25               | 12     | 21.17               | PASS    |

|       |     |     |    |       |       |
|-------|-----|-----|----|-------|-------|
|       |     | 25  | 25 | 21.97 | PASS  |
|       |     | 50  | 0  | 21.16 | PASS  |
| 16QAM | LCH | 1   | 0  | 22.28 | PASS  |
|       |     | 1   | 24 | 22.46 | PASS  |
|       |     | 1   | 49 | 22.25 | PASS  |
|       |     | 25  | 0  | 20.37 | PASS  |
|       |     | 25  | 12 | 20.58 | PASS  |
|       |     | 25  | 25 | 20.6  | PASS  |
|       |     | 50  | 0  | 20.69 | PASS  |
|       |     | MCH | 1  | 0     | 21.86 |
|       | 1   |     | 24 | 21.91 | PASS  |
|       | 1   |     | 49 | 21.74 | PASS  |
|       | 25  |     | 0  | 21.17 | PASS  |
|       | 25  |     | 12 | 21.04 | PASS  |
|       | 25  |     | 25 | 20.86 | PASS  |
|       | 50  |     | 0  | 20.89 | PASS  |
|       | HCH |     | 1  | 0     | 22.04 |
|       |     | 1   | 24 | 21.72 | PASS  |
|       |     | 1   | 49 | 21.61 | PASS  |
|       |     | 25  | 0  | 20.34 | PASS  |
|       |     | 25  | 12 | 20.31 | PASS  |
|       |     | 25  | 25 | 20.65 | PASS  |
|       |     | 50  | 0  | 21.02 | PASS  |

### Channel Bandwidth: 15 MHz

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 22.83               | PASS    |
|            |         | 1                | 37     | 22.08               | PASS    |
|            |         | 1                | 74     | 22.3                | PASS    |
|            |         | 37               | 0      | 21.54               | PASS    |
|            |         | 37               | 18     | 21.67               | PASS    |
|            |         | 37               | 38     | 21.79               | PASS    |
|            |         | 75               | 0      | 21.59               | PASS    |
|            | MCH     | 1                | 0      | 22.35               | PASS    |
|            |         | 1                | 37     | 22.32               | PASS    |
|            |         | 1                | 74     | 22.13               | PASS    |
|            |         | 37               | 0      | 21.79               | PASS    |
|            |         | 37               | 18     | 21.91               | PASS    |
|            |         | 37               | 38     | 21.74               | PASS    |
|            |         | 75               | 0      | 21.9                | PASS    |
|            | HCH     | 1                | 0      | 22.16               | PASS    |

|       |     |    |       |       |      |
|-------|-----|----|-------|-------|------|
|       |     | 1  | 37    | 22.7  | PASS |
|       |     | 1  | 74    | 22.47 | PASS |
|       |     | 37 | 0     | 21.53 | PASS |
|       |     | 37 | 18    | 21.23 | PASS |
|       |     | 37 | 38    | 21.02 | PASS |
|       |     | 75 | 0     | 21.25 | PASS |
| 16QAM | LCH | 1  | 0     | 22.35 | PASS |
|       |     | 1  | 37    | 21.61 | PASS |
|       |     | 1  | 74    | 21.81 | PASS |
|       |     | 37 | 0     | 20.59 | PASS |
|       |     | 37 | 18    | 20.62 | PASS |
|       |     | 37 | 38    | 20.66 | PASS |
|       | MCH | 75 | 0     | 20.55 | PASS |
|       |     | 1  | 0     | 21.75 | PASS |
|       |     | 1  | 37    | 21.68 | PASS |
|       |     | 1  | 74    | 21.58 | PASS |
|       |     | 37 | 0     | 20.99 | PASS |
|       |     | 37 | 18    | 20.98 | PASS |
|       | HCH | 37 | 38    | 20.8  | PASS |
|       |     | 75 | 0     | 20.92 | PASS |
|       |     | 1  | 0     | 22.38 | PASS |
|       |     | 1  | 37    | 22.15 | PASS |
|       |     | 1  | 74    | 21.77 | PASS |
|       |     | 37 | 0     | 21.25 | PASS |
|       |     | 37 | 18    | 21.2  | PASS |
|       |     | 37 | 38    | 21.01 | PASS |
|       | 75  | 0  | 21.37 | PASS  |      |

### Channel Bandwidth: 20 MHz

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 22.04               | PASS    |
|            |         | 1                | 49     | 22.3                | PASS    |
|            |         | 1                | 99     | 23.01               | PASS    |
|            |         | 50               | 0      | 22.07               | PASS    |
|            |         | 50               | 25     | 22.33               | PASS    |
|            |         | 50               | 50     | 22.37               | PASS    |
|            | MCH     | 100              | 0      | 22.16               | PASS    |
|            |         | 1                | 0      | 22.99               | PASS    |
|            |         | 1                | 49     | 22.52               | PASS    |
|            |         | 1                | 99     | 22.27               | PASS    |
|            |         | 50               | 0      | 22.32               | PASS    |

|       |     |       |       |       |      |
|-------|-----|-------|-------|-------|------|
|       |     | 50    | 25    | 22.35 | PASS |
|       |     | 50    | 50    | 22.09 | PASS |
|       |     | 100   | 0     | 22.24 | PASS |
|       | HCH | 1     | 0     | 22.09 | PASS |
|       |     | 1     | 49    | 22.75 | PASS |
|       |     | 1     | 99    | 22.4  | PASS |
|       |     | 50    | 0     | 21.96 | PASS |
|       |     | 50    | 25    | 21.96 | PASS |
|       |     | 50    | 50    | 21.72 | PASS |
| 16QAM | LCH | 100   | 0     | 21.84 | PASS |
|       |     | 1     | 0     | 21.48 | PASS |
|       |     | 1     | 49    | 22    | PASS |
|       |     | 1     | 99    | 22    | PASS |
|       |     | 50    | 0     | 20.74 | PASS |
|       |     | 50    | 25    | 20.67 | PASS |
|       |     | 50    | 50    | 20.99 | PASS |
|       | MCH | 100   | 0     | 20.6  | PASS |
|       |     | 1     | 0     | 21.82 | PASS |
|       |     | 1     | 49    | 21.87 | PASS |
|       |     | 1     | 99    | 21.69 | PASS |
|       |     | 50    | 0     | 20.75 | PASS |
|       |     | 50    | 25    | 20.86 | PASS |
|       |     | 50    | 50    | 20.83 | PASS |
|       | HCH | 100   | 0     | 20.92 | PASS |
|       |     | 1     | 0     | 22.26 | PASS |
|       |     | 1     | 49    | 21.9  | PASS |
|       |     | 1     | 99    | 21.47 | PASS |
| 50    |     | 0     | 20.46 | PASS  |      |
| 50    |     | 25    | 21.29 | PASS  |      |
| 50    |     | 50    | 21.23 | PASS  |      |
| 100   | 0   | 21.28 | PASS  |       |      |

## Appendix B: Peak-to-Average Ratio

### Test Result

Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz |         |                  |        |                               |               |         |
|----------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation                 | Channel | RB Configuration |        | Peak-to-Average Ratio<br>(dB) | Limit<br>(dB) | Verdict |
|                            |         | Size             | Offset |                               |               |         |
| QPSK                       | LCH     | 1                | 0      | 4.88                          | <13           | PASS    |
|                            |         | 1                | 3      | 4.96                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.85                          | <13           | PASS    |
|                            |         | 3                | 0      | 4.99                          | <13           | PASS    |
|                            |         | 3                | 2      | 4.95                          | <13           | PASS    |
|                            |         | 3                | 3      | 4.97                          | <13           | PASS    |
|                            |         | 6                | 0      | 5.28                          | <13           | PASS    |
|                            | MCH     | 1                | 0      | 4.92                          | <13           | PASS    |
|                            |         | 1                | 3      | 5.04                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.88                          | <13           | PASS    |
|                            |         | 3                | 0      | 5.43                          | <13           | PASS    |
|                            |         | 3                | 2      | 5.36                          | <13           | PASS    |
|                            |         | 3                | 3      | 5.4                           | <13           | PASS    |
|                            |         | 6                | 0      | 5.57                          | <13           | PASS    |
|                            | HCH     | 1                | 0      | 4.81                          | <13           | PASS    |
|                            |         | 1                | 3      | 4.78                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.83                          | <13           | PASS    |
|                            |         | 3                | 0      | 4.96                          | <13           | PASS    |
|                            |         | 3                | 2      | 4.88                          | <13           | PASS    |
|                            |         | 3                | 3      | 4.92                          | <13           | PASS    |
|                            |         | 6                | 0      | 5.03                          | <13           | PASS    |
| 16QAM                      | LCH     | 1                | 0      | 5.06                          | <13           | PASS    |
|                            |         | 1                | 3      | 5.01                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.84                          | <13           | PASS    |
|                            |         | 3                | 0      | 5.7                           | <13           | PASS    |
|                            |         | 3                | 2      | 5.58                          | <13           | PASS    |
|                            |         | 3                | 3      | 5.63                          | <13           | PASS    |
|                            |         | 6                | 0      | 6.27                          | <13           | PASS    |
|                            | MCH     | 1                | 0      | 5.91                          | <13           | PASS    |
|                            |         | 1                | 3      | 5.82                          | <13           | PASS    |
|                            |         | 1                | 5      | 5.94                          | <13           | PASS    |
|                            |         | 3                | 0      | 6.37                          | <13           | PASS    |



|  |     |   |   |      |     |      |
|--|-----|---|---|------|-----|------|
|  |     | 3 | 2 | 6.3  | <13 | PASS |
|  |     | 3 | 3 | 6.22 | <13 | PASS |
|  |     | 6 | 0 | 6.37 | <13 | PASS |
|  | HCH | 1 | 0 | 5.63 | <13 | PASS |
|  |     | 1 | 3 | 4.95 | <13 | PASS |
|  |     | 1 | 5 | 4.95 | <13 | PASS |
|  |     | 3 | 0 | 5.86 | <13 | PASS |
|  |     | 3 | 2 | 5.83 | <13 | PASS |
|  |     | 3 | 3 | 5.77 | <13 | PASS |
|  |     | 6 | 0 | 6.08 | <13 | PASS |

### Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz |         |                  |        |                               |               |         |
|--------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation               | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                          |         | Size             | Offset |                               |               |         |
| QPSK                     | LCH     | 1                | 0      | 4.79                          | <13           | PASS    |
|                          |         | 1                | 7      | 4.88                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.92                          | <13           | PASS    |
|                          |         | 8                | 0      | 5.27                          | <13           | PASS    |
|                          |         | 8                | 4      | 5.28                          | <13           | PASS    |
|                          |         | 8                | 7      | 5.23                          | <13           | PASS    |
|                          |         | 15               | 0      | 5.22                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.15                          | <13           | PASS    |
|                          |         | 1                | 7      | 5.05                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.98                          | <13           | PASS    |
|                          |         | 8                | 0      | 5.58                          | <13           | PASS    |
|                          |         | 8                | 4      | 5.48                          | <13           | PASS    |
|                          |         | 8                | 7      | 5.59                          | <13           | PASS    |
|                          |         | 15               | 0      | 5.65                          | <13           | PASS    |
|                          | HCH     | 1                | 0      | 4.99                          | <13           | PASS    |
|                          |         | 1                | 7      | 4.85                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.66                          | <13           | PASS    |
|                          |         | 8                | 0      | 5.26                          | <13           | PASS    |
|                          |         | 8                | 4      | 5.2                           | <13           | PASS    |
|                          |         | 8                | 7      | 5.15                          | <13           | PASS    |
|                          |         | 15               | 0      | 5.13                          | <13           | PASS    |
| 16QAM                    | LCH     | 1                | 0      | 4.93                          | <13           | PASS    |
|                          |         | 1                | 7      | 5.04                          | <13           | PASS    |
|                          |         | 1                | 14     | 5.09                          | <13           | PASS    |
|                          |         | 8                | 0      | 6.08                          | <13           | PASS    |
|                          |         | 8                | 4      | 6.1                           | <13           | PASS    |

|  |     |     |    |      |      |      |
|--|-----|-----|----|------|------|------|
|  |     | 8   | 7  | 6.09 | <13  | PASS |
|  |     | 15  | 0  | 6.13 | <13  | PASS |
|  | MCH | 1   | 0  | 5.67 | <13  | PASS |
|  |     | 1   | 7  | 5.81 | <13  | PASS |
|  |     | 1   | 14 | 5.75 | <13  | PASS |
|  |     | 8   | 0  | 6.42 | <13  | PASS |
|  |     | 8   | 4  | 6.27 | <13  | PASS |
|  |     | 8   | 7  | 6.19 | <13  | PASS |
|  |     | 15  | 0  | 6.47 | <13  | PASS |
|  |     | HCH | 1  | 0    | 5.13 | <13  |
|  | 1   |     | 7  | 5.01 | <13  | PASS |
|  | 1   |     | 14 | 5.01 | <13  | PASS |
|  | 8   |     | 0  | 6.2  | <13  | PASS |
|  | 8   |     | 4  | 6.17 | <13  | PASS |
|  | 8   |     | 7  | 6.22 | <13  | PASS |
|  | 15  |     | 0  | 6    | <13  | PASS |

### Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz |         |                  |        |                               |               |         |
|--------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation               | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                          |         | Size             | Offset |                               |               |         |
| QPSK                     | LCH     | 1                | 0      | 5.14                          | <13           | PASS    |
|                          |         | 1                | 12     | 5.18                          | <13           | PASS    |
|                          |         | 1                | 24     | 5.13                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.2                           | <13           | PASS    |
|                          |         | 12               | 6      | 5.26                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.27                          | <13           | PASS    |
|                          |         | 25               | 0      | 5.23                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.33                          | <13           | PASS    |
|                          |         | 1                | 12     | 5.43                          | <13           | PASS    |
|                          |         | 1                | 24     | 5.27                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.54                          | <13           | PASS    |
|                          |         | 12               | 6      | 5.44                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.43                          | <13           | PASS    |
|                          |         | 25               | 0      | 5.46                          | <13           | PASS    |
|                          | HCH     | 1                | 0      | 5.01                          | <13           | PASS    |
|                          |         | 1                | 12     | 4.82                          | <13           | PASS    |
|                          |         | 1                | 24     | 4.68                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.3                           | <13           | PASS    |
|                          |         | 12               | 6      | 5.38                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.14                          | <13           | PASS    |

|       |     |    |    |      |     |      |
|-------|-----|----|----|------|-----|------|
|       |     | 25 | 0  | 5.23 | <13 | PASS |
| 16QAM | LCH | 1  | 0  | 5.6  | <13 | PASS |
|       |     | 1  | 12 | 5.9  | <13 | PASS |
|       |     | 1  | 24 | 5.86 | <13 | PASS |
|       |     | 12 | 0  | 6.09 | <13 | PASS |
|       |     | 12 | 6  | 6.17 | <13 | PASS |
|       |     | 12 | 13 | 6.24 | <13 | PASS |
|       |     | 25 | 0  | 6    | <13 | PASS |
|       | MCH | 1  | 0  | 5.97 | <13 | PASS |
|       |     | 1  | 12 | 6.1  | <13 | PASS |
|       |     | 1  | 24 | 5.74 | <13 | PASS |
|       |     | 12 | 0  | 6.33 | <13 | PASS |
|       |     | 12 | 6  | 6.35 | <13 | PASS |
|       |     | 12 | 13 | 6.39 | <13 | PASS |
|       |     | 25 | 0  | 6.26 | <13 | PASS |
|       | HCH | 1  | 0  | 5.96 | <13 | PASS |
|       |     | 1  | 12 | 5.72 | <13 | PASS |
|       |     | 1  | 24 | 5.67 | <13 | PASS |
|       |     | 12 | 0  | 6.23 | <13 | PASS |
|       |     | 12 | 6  | 6.18 | <13 | PASS |
|       |     | 12 | 13 | 6.03 | <13 | PASS |
|       |     | 25 | 0  | 5.98 | <13 | PASS |

### Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz |         |                  |        |                               |               |         |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation                | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                           |         | Size             | Offset |                               |               |         |
| QPSK                      | LCH     | 1                | 0      | 4.89                          | <13           | PASS    |
|                           |         | 1                | 24     | 4.94                          | <13           | PASS    |
|                           |         | 1                | 49     | 5.14                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.33                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.27                          | <13           | PASS    |
|                           |         | 25               | 25     | 5.36                          | <13           | PASS    |
|                           |         | 50               | 0      | 5.3                           | <13           | PASS    |
|                           | MCH     | 1                | 0      | 5.07                          | <13           | PASS    |
|                           |         | 1                | 24     | 5.07                          | <13           | PASS    |
|                           |         | 1                | 49     | 4.98                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.55                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.57                          | <13           | PASS    |
|                           |         | 25               | 25     | 5.58                          | <13           | PASS    |
|                           |         | 50               | 0      | 5.59                          | <13           | PASS    |

|       |     |    |    |      |     |      |
|-------|-----|----|----|------|-----|------|
|       | HCH | 1  | 0  | 5.34 | <13 | PASS |
|       |     | 1  | 24 | 5.14 | <13 | PASS |
|       |     | 1  | 49 | 4.68 | <13 | PASS |
|       |     | 25 | 0  | 5.48 | <13 | PASS |
|       |     | 25 | 12 | 5.33 | <13 | PASS |
|       |     | 25 | 25 | 5.22 | <13 | PASS |
|       |     | 50 | 0  | 5.4  | <13 | PASS |
| 16QAM | LCH | 1  | 0  | 5.08 | <13 | PASS |
|       |     | 1  | 24 | 4.99 | <13 | PASS |
|       |     | 1  | 49 | 4.96 | <13 | PASS |
|       |     | 25 | 0  | 6.17 | <13 | PASS |
|       |     | 25 | 12 | 6.1  | <13 | PASS |
|       |     | 25 | 25 | 6.36 | <13 | PASS |
|       |     | 50 | 0  | 6.08 | <13 | PASS |
|       | MCH | 1  | 0  | 5.84 | <13 | PASS |
|       |     | 1  | 24 | 5.75 | <13 | PASS |
|       |     | 1  | 49 | 5.75 | <13 | PASS |
|       |     | 25 | 0  | 6.44 | <13 | PASS |
|       |     | 25 | 12 | 6.39 | <13 | PASS |
|       |     | 25 | 25 | 6.46 | <13 | PASS |
|       |     | 50 | 0  | 6.31 | <13 | PASS |
|       | HCH | 1  | 0  | 6.19 | <13 | PASS |
|       |     | 1  | 24 | 5.87 | <13 | PASS |
|       |     | 1  | 49 | 5.49 | <13 | PASS |
|       |     | 25 | 0  | 6.38 | <13 | PASS |
|       |     | 25 | 12 | 6.29 | <13 | PASS |
|       |     | 25 | 25 | 6.08 | <13 | PASS |
|       |     | 50 | 0  | 6.18 | <13 | PASS |

### Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz |         |                  |        |                               |               |         |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation                | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                           |         | Size             | Offset |                               |               |         |
| QPSK                      | LCH     | 1                | 0      | 4.84                          | <13           | PASS    |
|                           |         | 1                | 37     | 4.99                          | <13           | PASS    |
|                           |         | 1                | 74     | 5.31                          | <13           | PASS    |
|                           |         | 37               | 0      | 5.26                          | <13           | PASS    |
|                           |         | 37               | 18     | 5.35                          | <13           | PASS    |
|                           |         | 37               | 38     | 5.49                          | <13           | PASS    |
|                           |         | 75               | 0      | 5.65                          | <13           | PASS    |
|                           | MCH     | 1                | 0      | 5.43                          | <13           | PASS    |

|       |     |    |    |      |     |      |
|-------|-----|----|----|------|-----|------|
|       |     | 1  | 37 | 5.53 | <13 | PASS |
|       |     | 1  | 74 | 5.38 | <13 | PASS |
|       |     | 37 | 0  | 5.53 | <13 | PASS |
|       |     | 37 | 18 | 5.51 | <13 | PASS |
|       |     | 37 | 38 | 5.49 | <13 | PASS |
|       |     | 75 | 0  | 5.78 | <13 | PASS |
|       |     | 75 | 0  | 5.78 | <13 | PASS |
|       | HCH | 1  | 0  | 5.45 | <13 | PASS |
|       |     | 1  | 37 | 5.22 | <13 | PASS |
|       |     | 1  | 74 | 4.82 | <13 | PASS |
|       |     | 37 | 0  | 5.51 | <13 | PASS |
|       |     | 37 | 18 | 5.47 | <13 | PASS |
|       |     | 37 | 38 | 5.3  | <13 | PASS |
|       |     | 75 | 0  | 5.78 | <13 | PASS |
| 16QAM | LCH | 1  | 0  | 4.99 | <13 | PASS |
|       |     | 1  | 37 | 5.27 | <13 | PASS |
|       |     | 1  | 74 | 5.7  | <13 | PASS |
|       |     | 37 | 0  | 6.08 | <13 | PASS |
|       |     | 37 | 18 | 6.25 | <13 | PASS |
|       |     | 37 | 38 | 6.38 | <13 | PASS |
|       |     | 75 | 0  | 6.3  | <13 | PASS |
|       | MCH | 1  | 0  | 5.99 | <13 | PASS |
|       |     | 1  | 37 | 5.8  | <13 | PASS |
|       |     | 1  | 74 | 5.83 | <13 | PASS |
|       |     | 37 | 0  | 6.43 | <13 | PASS |
|       |     | 37 | 18 | 6.34 | <13 | PASS |
|       |     | 37 | 38 | 6.42 | <13 | PASS |
|       |     | 75 | 0  | 6.32 | <13 | PASS |
|       | HCH | 1  | 0  | 6.2  | <13 | PASS |
|       |     | 1  | 37 | 6.32 | <13 | PASS |
|       |     | 1  | 74 | 5.49 | <13 | PASS |
|       |     | 37 | 0  | 6.48 | <13 | PASS |
|       |     | 37 | 18 | 6.32 | <13 | PASS |
|       |     | 37 | 38 | 6.21 | <13 | PASS |
|       |     | 75 | 0  | 6.31 | <13 | PASS |

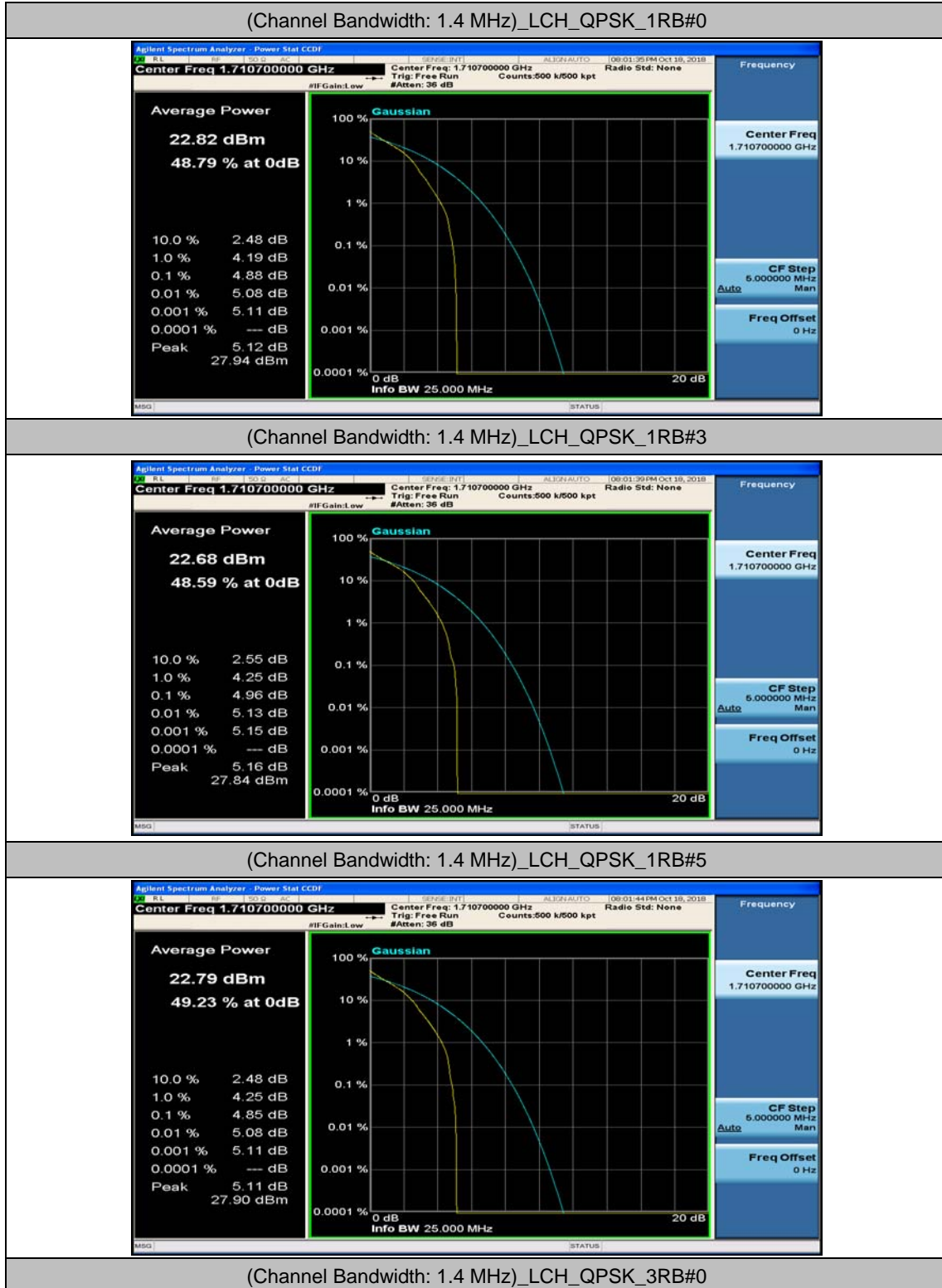
### Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz |         |                  |        |                               |               |         |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation                | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                           |         | Size             | Offset |                               |               |         |
| QPSK                      | LCH     | 1                | 0      | 4.81                          | <13           | PASS    |
|                           |         | 1                | 49     | 5.05                          | <13           | PASS    |

|     |       |     |    |      |      |      |      |
|-----|-------|-----|----|------|------|------|------|
|     |       | 1   | 99 | 5.3  | <13  | PASS |      |
|     |       | 50  | 0  | 5.38 | <13  | PASS |      |
|     |       | 50  | 25 | 5.52 | <13  | PASS |      |
|     |       | 50  | 50 | 5.59 | <13  | PASS |      |
|     |       | 100 | 0  | 5.59 | <13  | PASS |      |
|     | MCH   | 1   | 0  | 5.27 | <13  | PASS |      |
|     |       | 1   | 49 | 5.33 | <13  | PASS |      |
|     |       | 1   | 99 | 5.34 | <13  | PASS |      |
|     |       | 50  | 0  | 5.6  | <13  | PASS |      |
|     |       | 50  | 25 | 5.56 | <13  | PASS |      |
|     |       | 50  | 50 | 5.58 | <13  | PASS |      |
|     |       | 100 | 0  | 5.62 | <13  | PASS |      |
|     | HCH   | 1   | 0  | 5.57 | <13  | PASS |      |
|     |       | 1   | 49 | 5.51 | <13  | PASS |      |
|     |       | 1   | 99 | 4.84 | <13  | PASS |      |
|     |       | 50  | 0  | 5.53 | <13  | PASS |      |
|     |       | 50  | 25 | 5.52 | <13  | PASS |      |
|     |       | 50  | 50 | 5.4  | <13  | PASS |      |
|     |       | 100 | 0  | 5.56 | <13  | PASS |      |
|     | 16QAM | LCH | 1  | 0    | 5.56 | <13  | PASS |
|     |       |     | 1  | 49   | 6.07 | <13  | PASS |
| 1   |       |     | 99 | 6.45 | <13  | PASS |      |
| 50  |       |     | 0  | 6.1  | <13  | PASS |      |
| 50  |       |     | 25 | 6.29 | <13  | PASS |      |
| 50  |       |     | 50 | 6.38 | <13  | PASS |      |
| 100 |       |     | 0  | 6.32 | <13  | PASS |      |
| MCH |       | 1   | 0  | 6.25 | <13  | PASS |      |
|     |       | 1   | 49 | 6.04 | <13  | PASS |      |
|     |       | 1   | 99 | 6.16 | <13  | PASS |      |
|     |       | 50  | 0  | 6.38 | <13  | PASS |      |
|     |       | 50  | 25 | 6.3  | <13  | PASS |      |
|     |       | 50  | 50 | 6.3  | <13  | PASS |      |
|     |       | 100 | 0  | 6.34 | <13  | PASS |      |
| HCH |       | 1   | 0  | 6.08 | <13  | PASS |      |
|     |       | 1   | 49 | 6.03 | <13  | PASS |      |
|     |       | 1   | 99 | 5.19 | <13  | PASS |      |
|     |       | 50  | 0  | 6.39 | <13  | PASS |      |
|     |       | 50  | 25 | 6.3  | <13  | PASS |      |
|     |       | 50  | 50 | 6.24 | <13  | PASS |      |
|     |       | 100 | 0  | 6.37 | <13  | PASS |      |

## Test Graphs

### Channel Bandwidth: 1.4 MHz

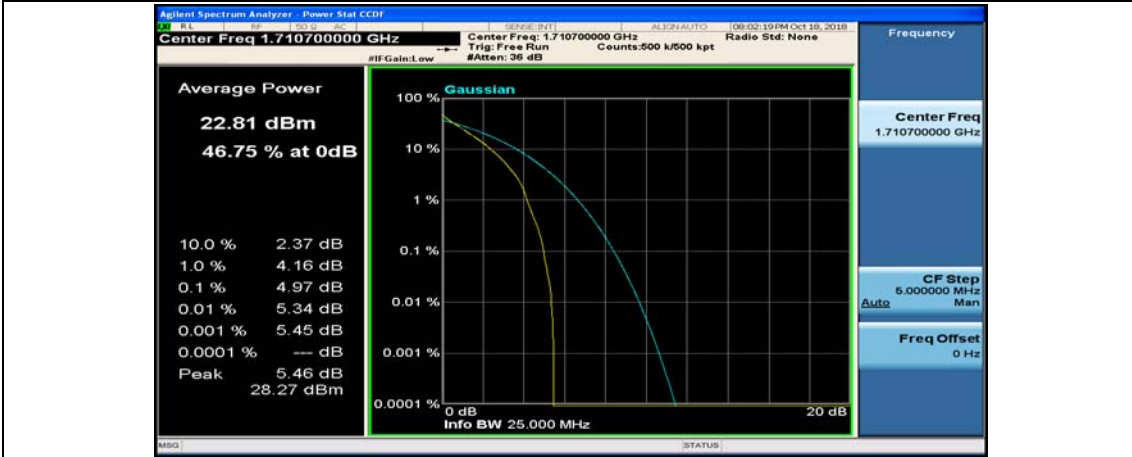




(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#2



(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#3

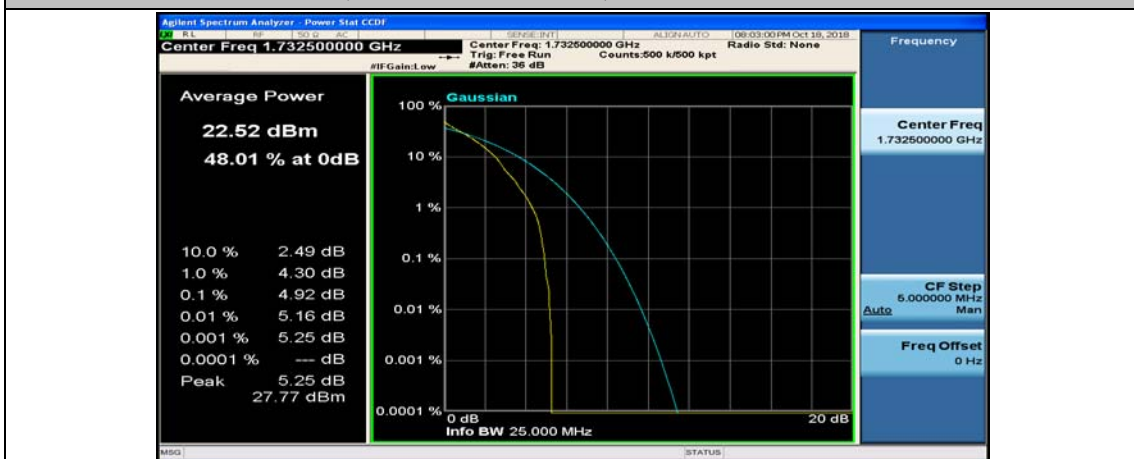


(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_6RB#0





(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#0



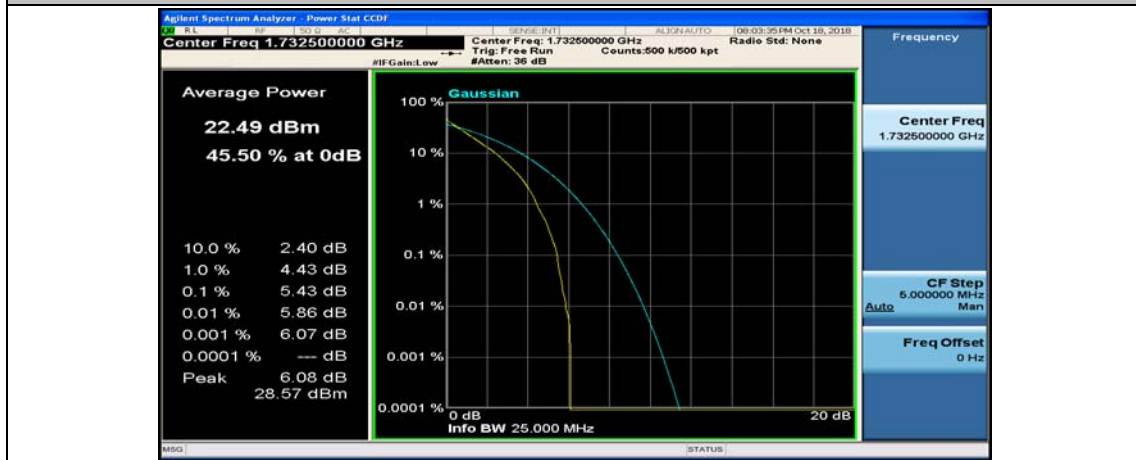
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#3



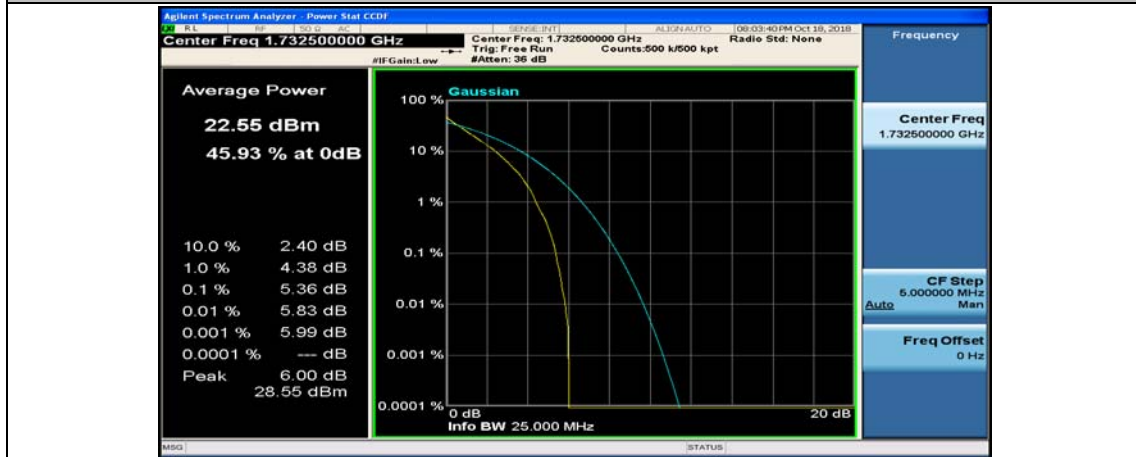
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#5



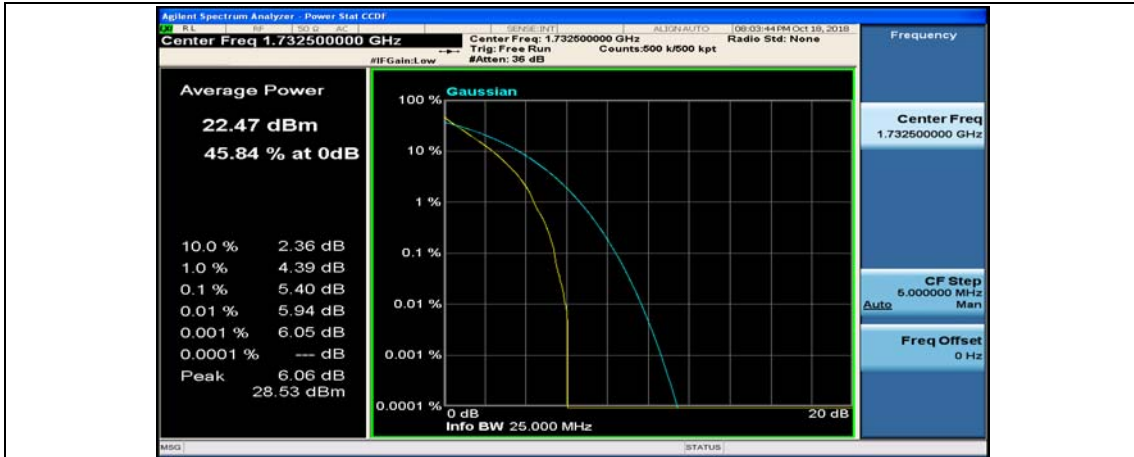
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#2



(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#3



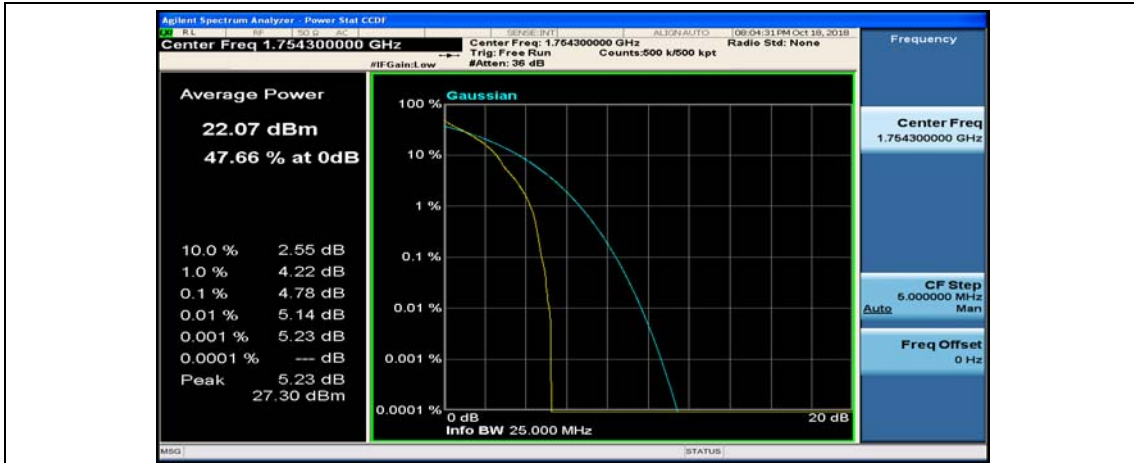
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_6RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#3



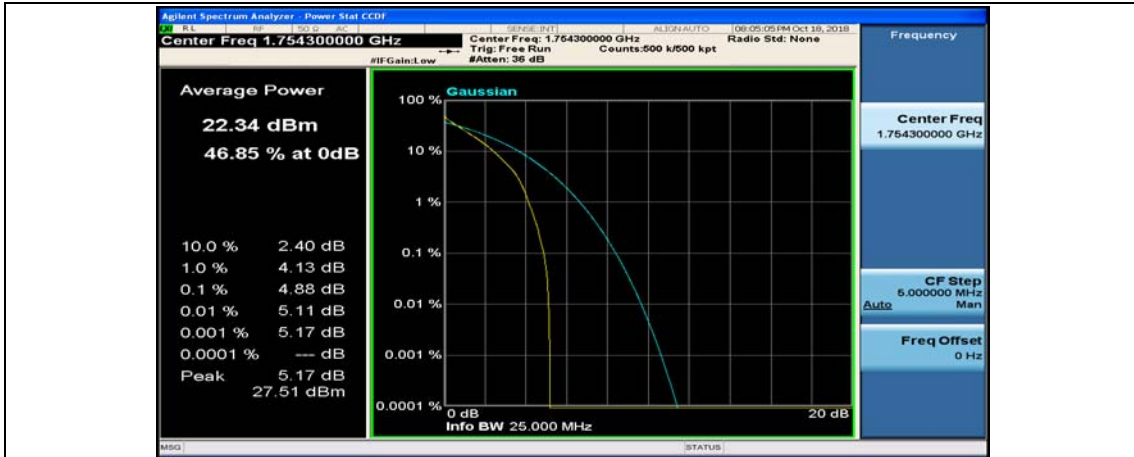
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#5



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#0



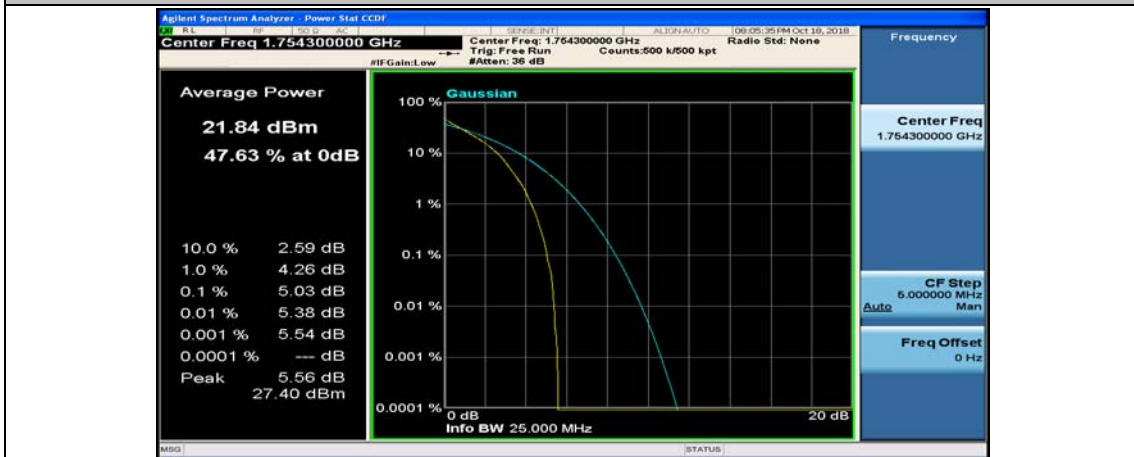
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#2



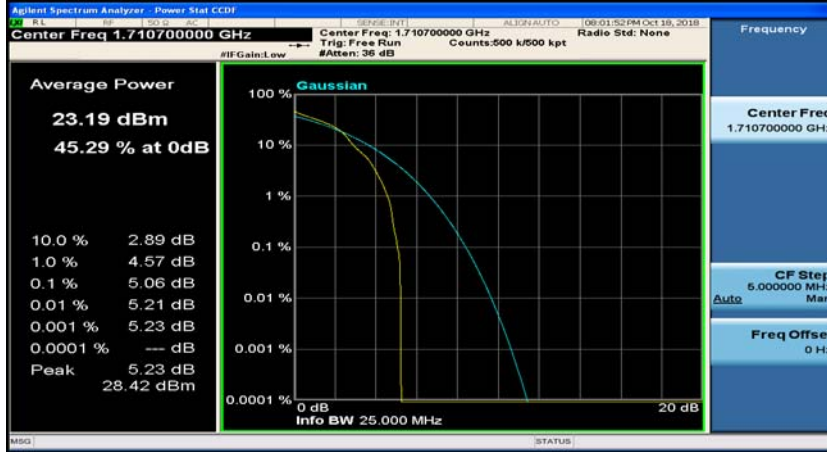
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#3



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_6RB#0



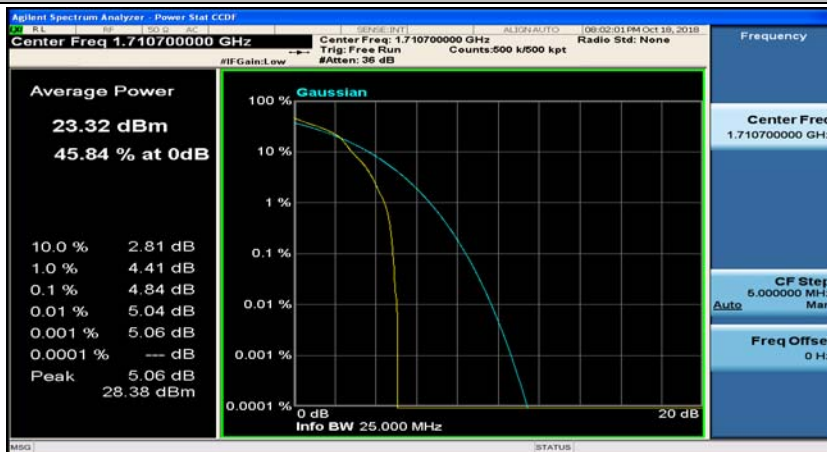
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#0



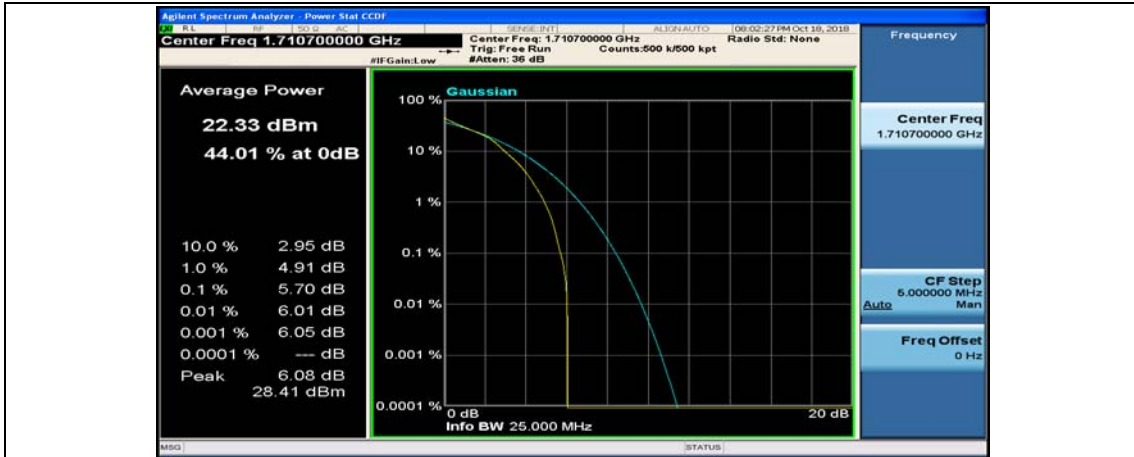
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#5



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#2



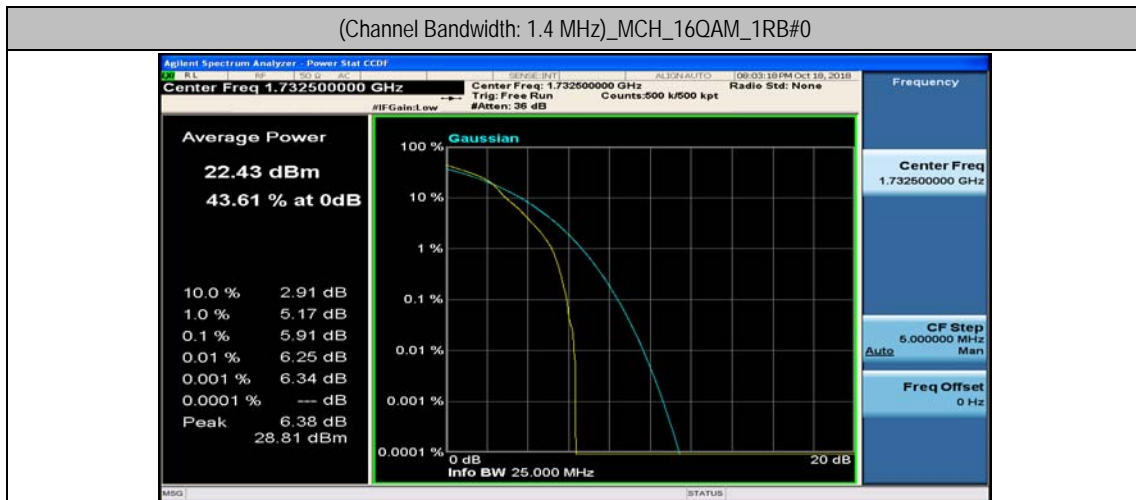
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#3



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_6RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#3

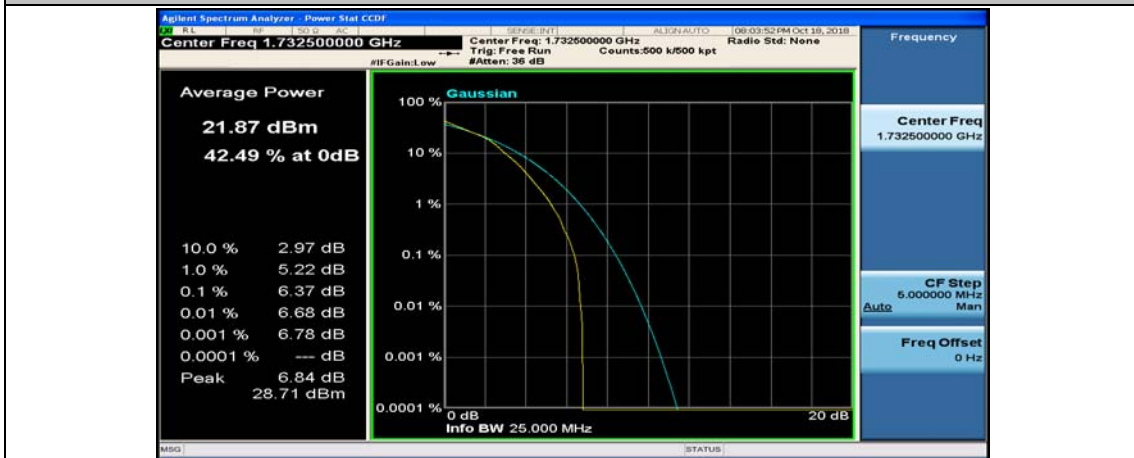


(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#5





(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#2



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#3



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_6RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#3



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#5



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#2



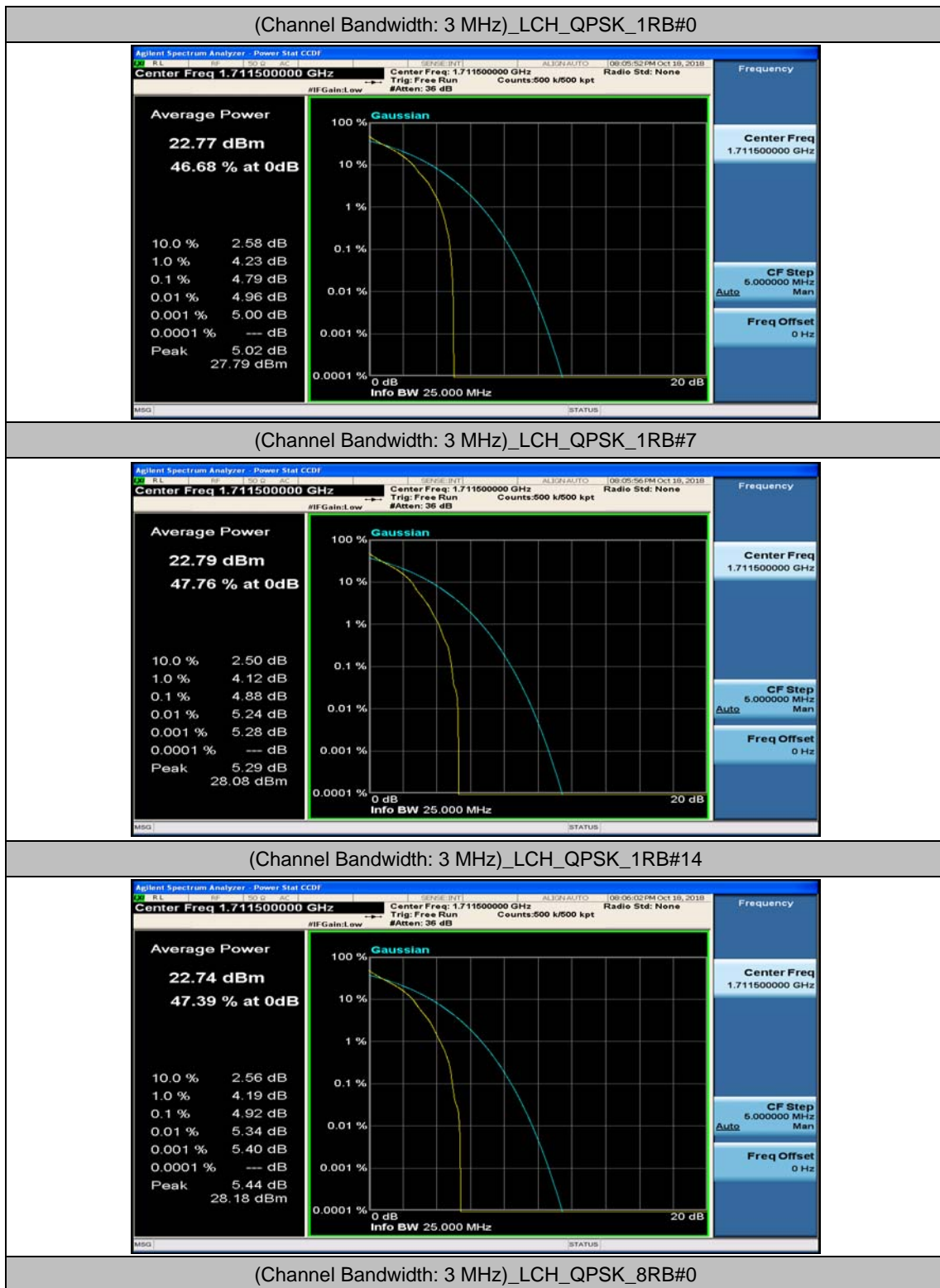
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#3



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_6RB#0

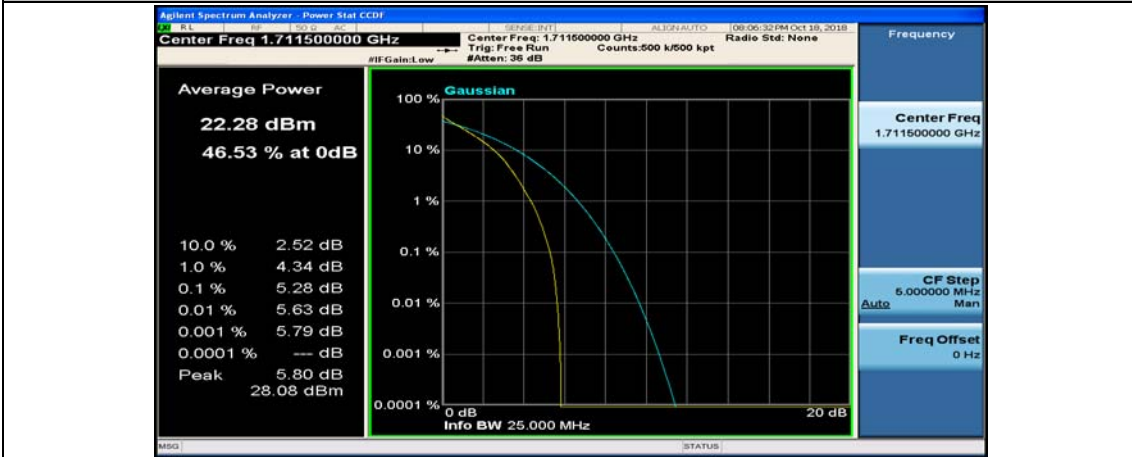


### Channel Bandwidth: 3 MHz

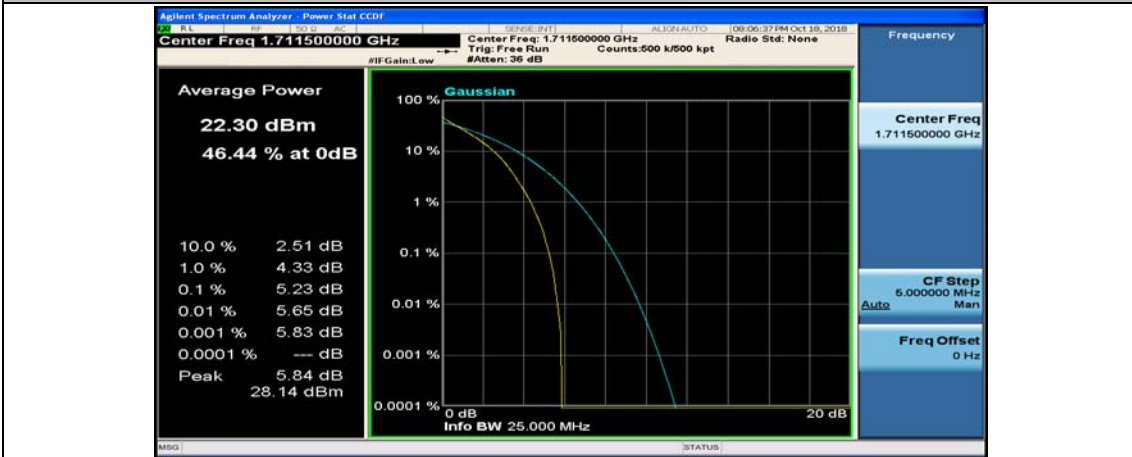




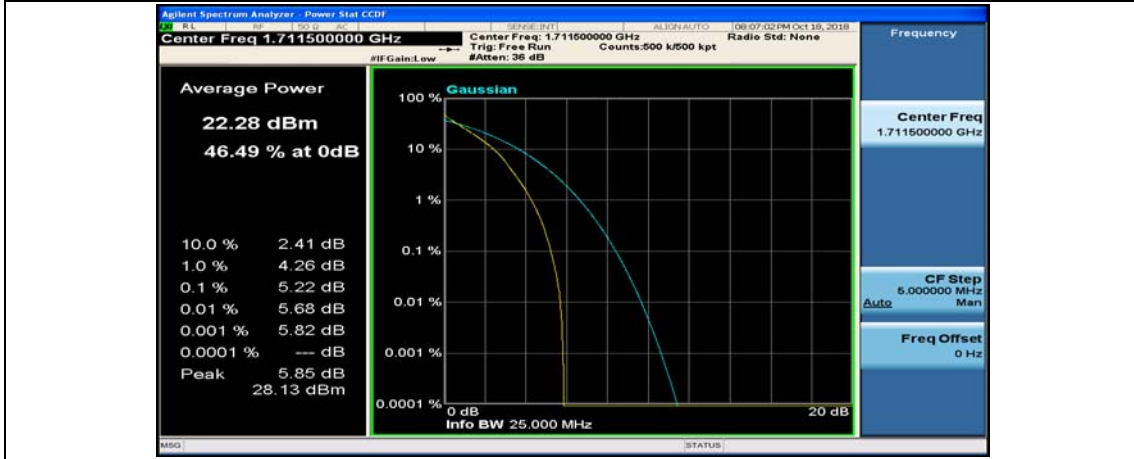
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#4



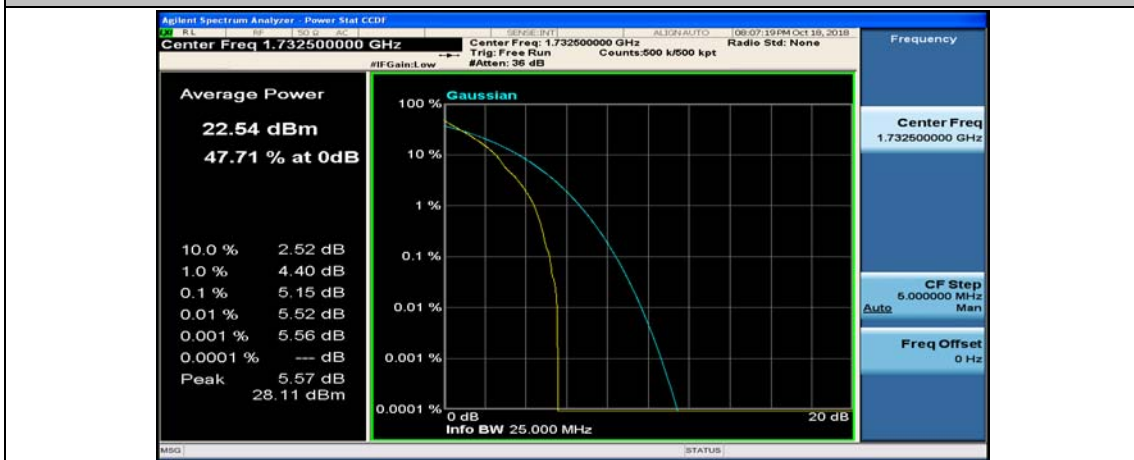
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#7



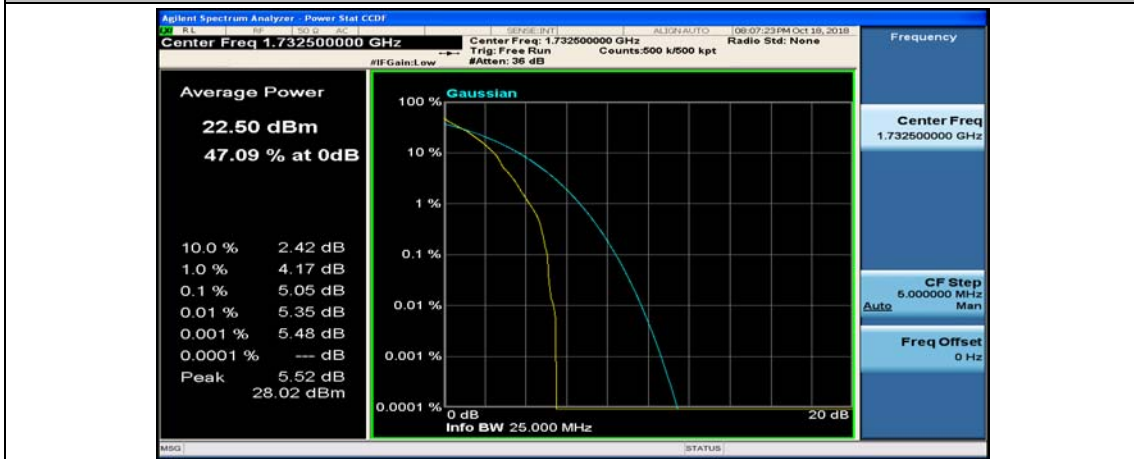
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_15RB#0



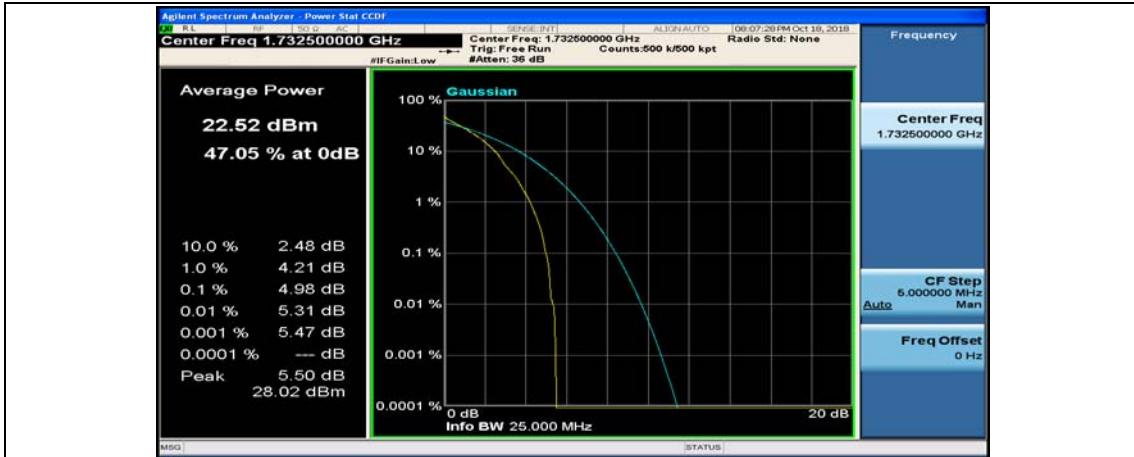
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#7



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#14



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#0

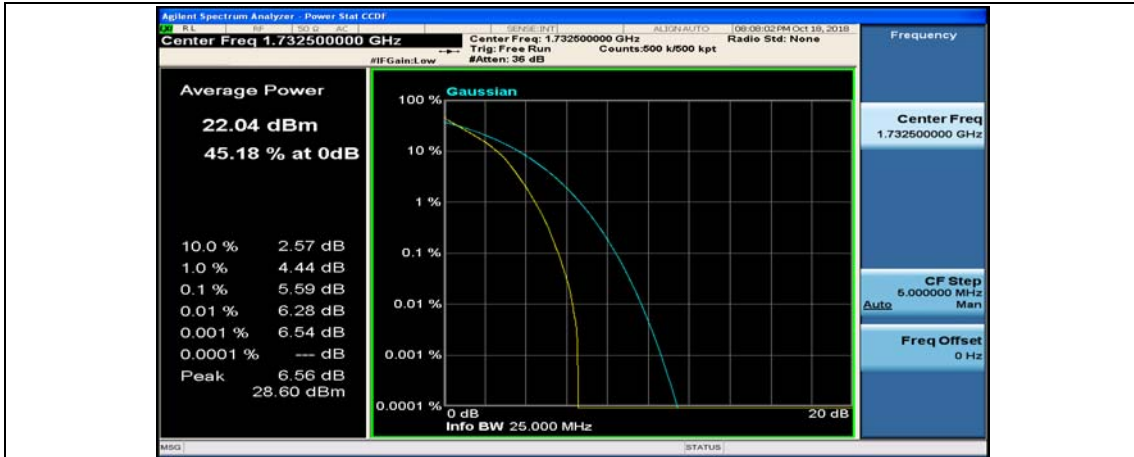


(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#4



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#7

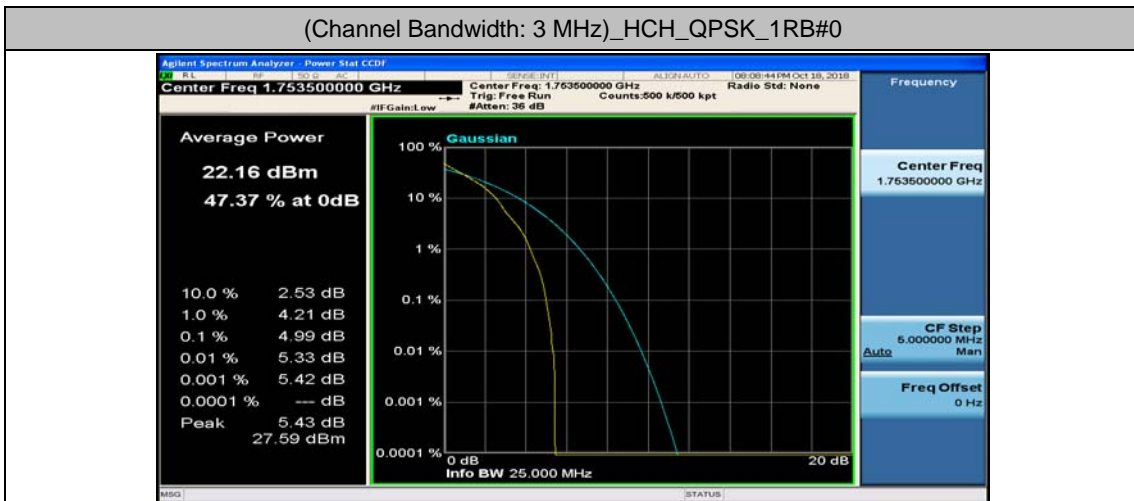




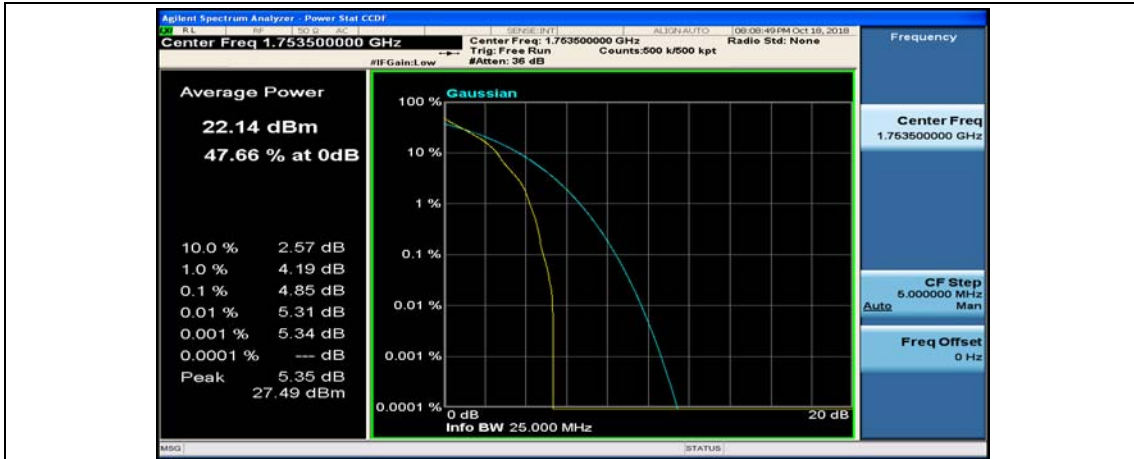
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_15RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#0



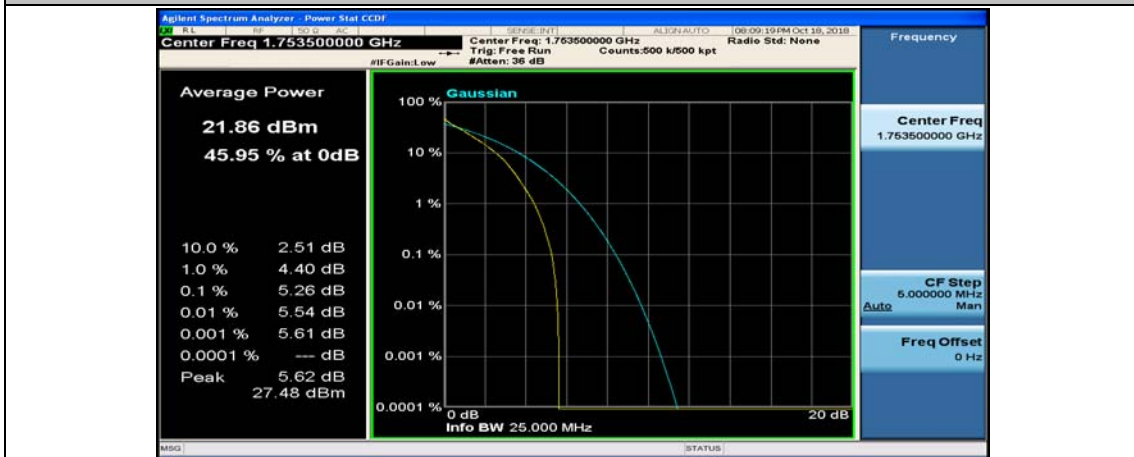
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#7



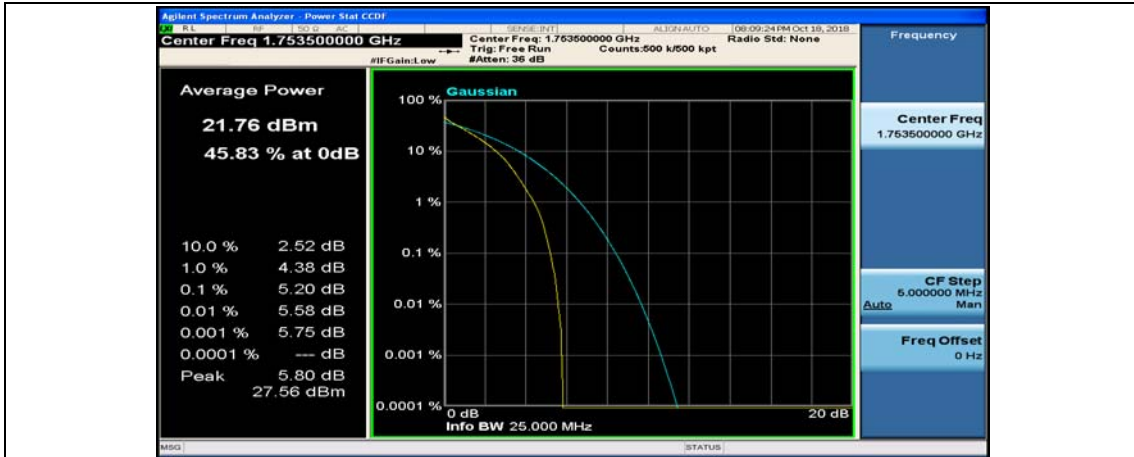
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#14



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#0



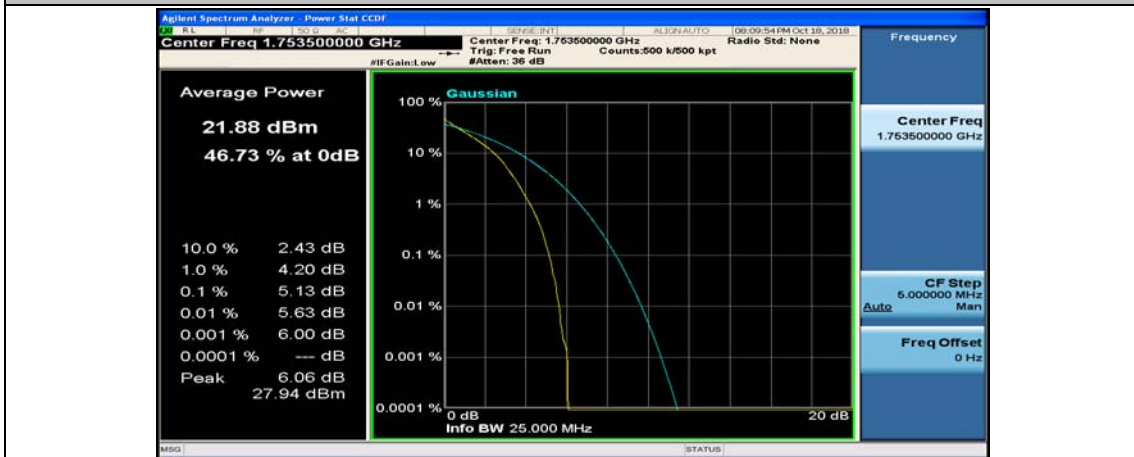
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#4



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#7



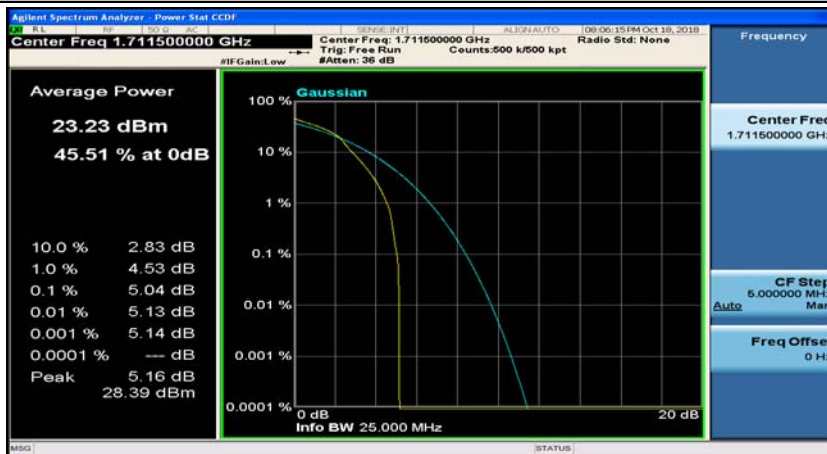
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_15RB#0



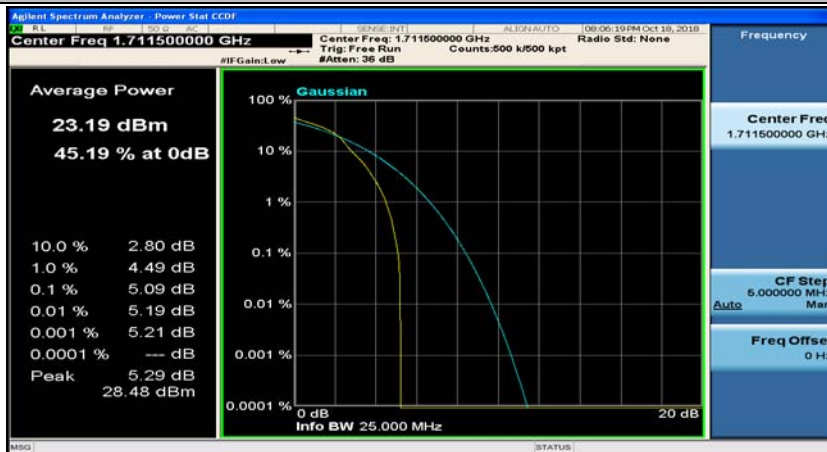
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#7



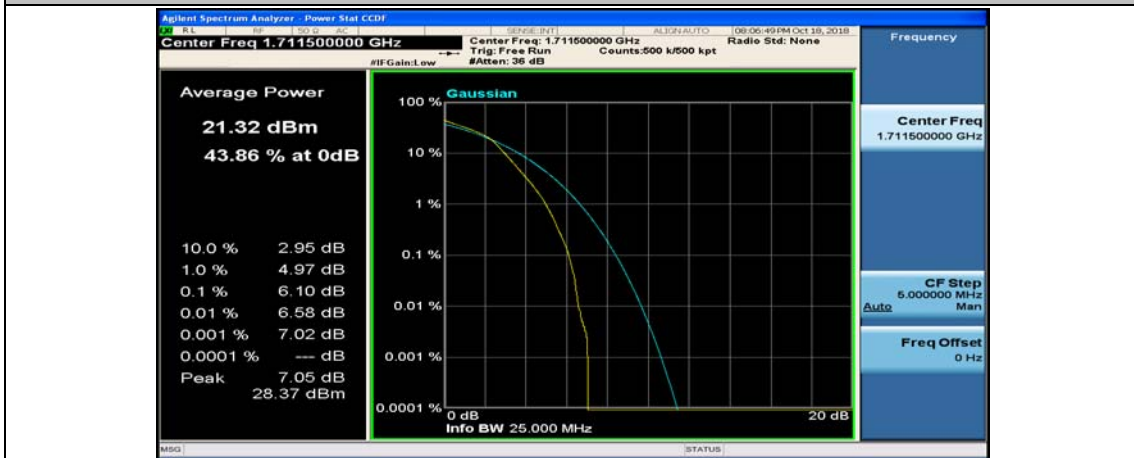
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#14



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#4



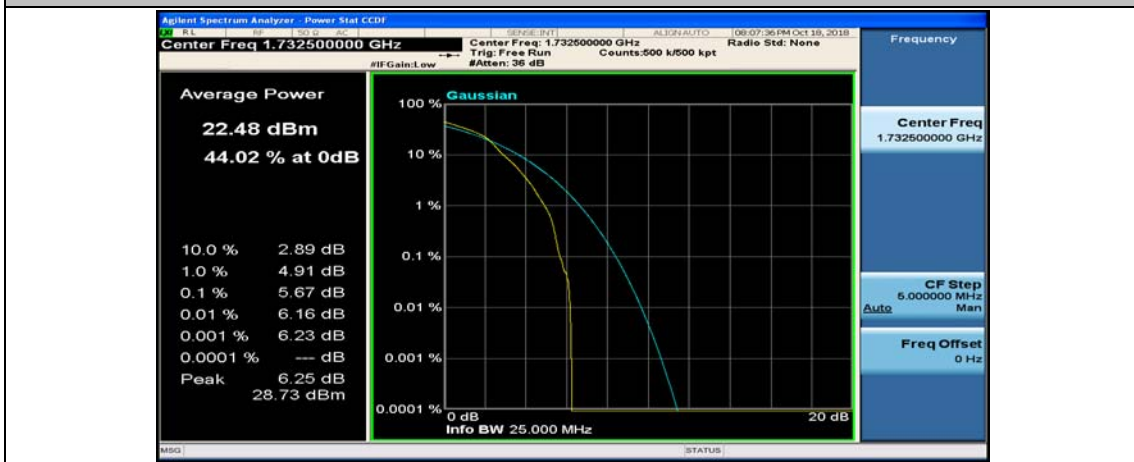
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#7



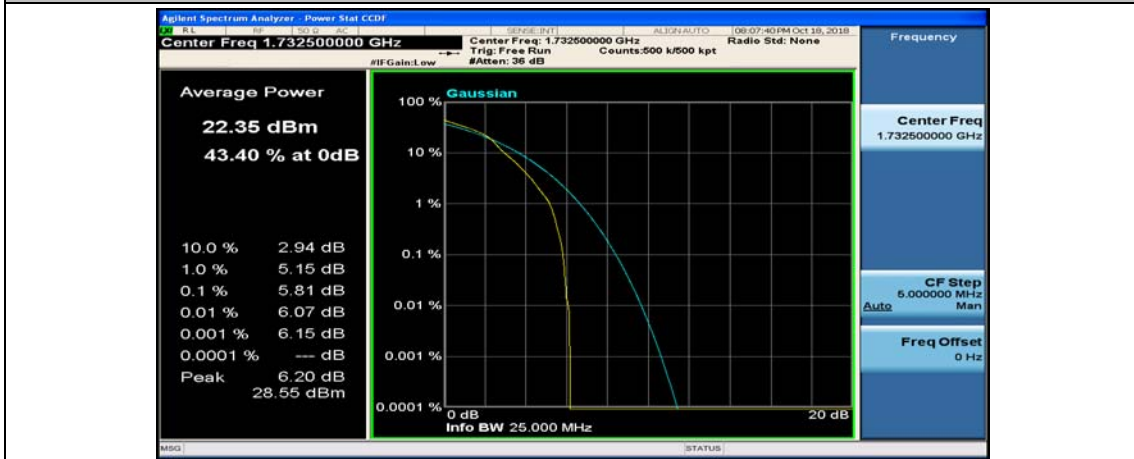
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_15RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#7



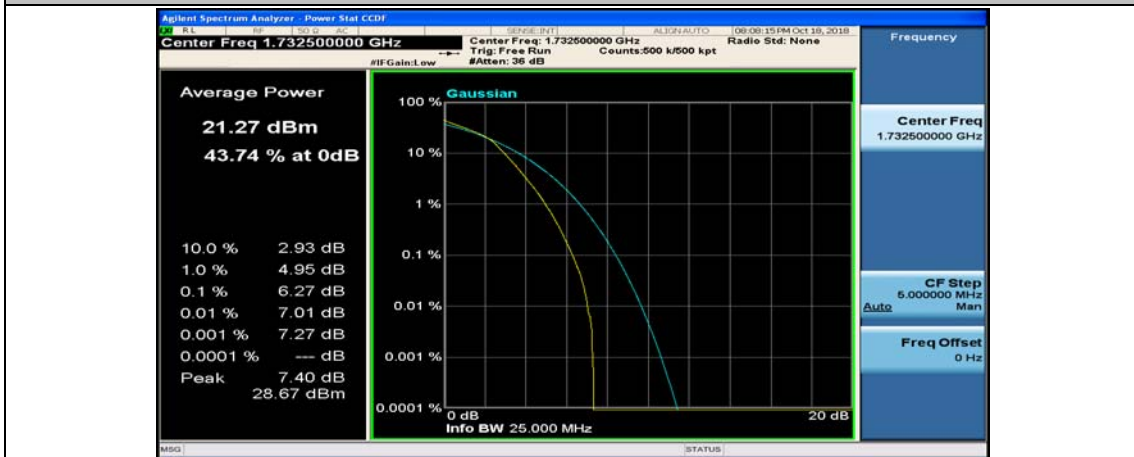
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#14



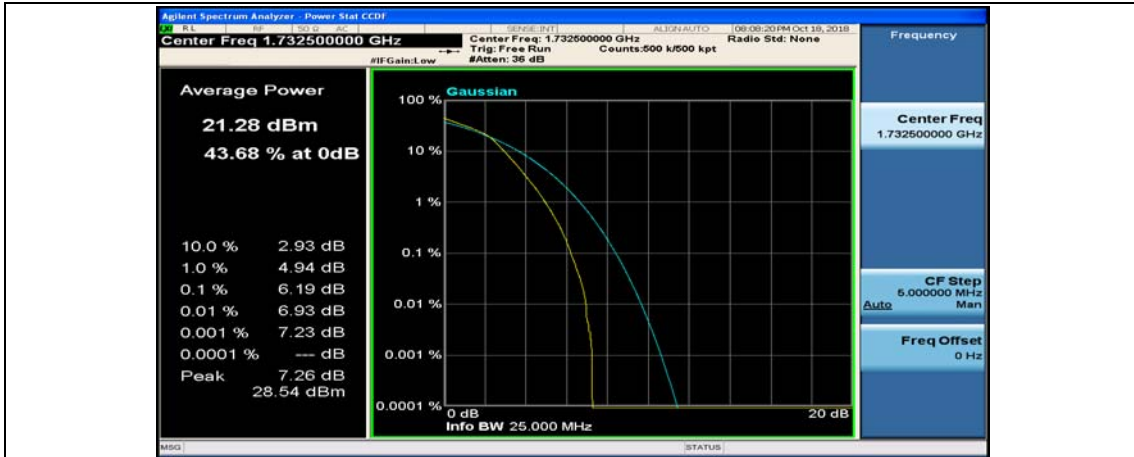
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#4



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#7



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_15RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#0

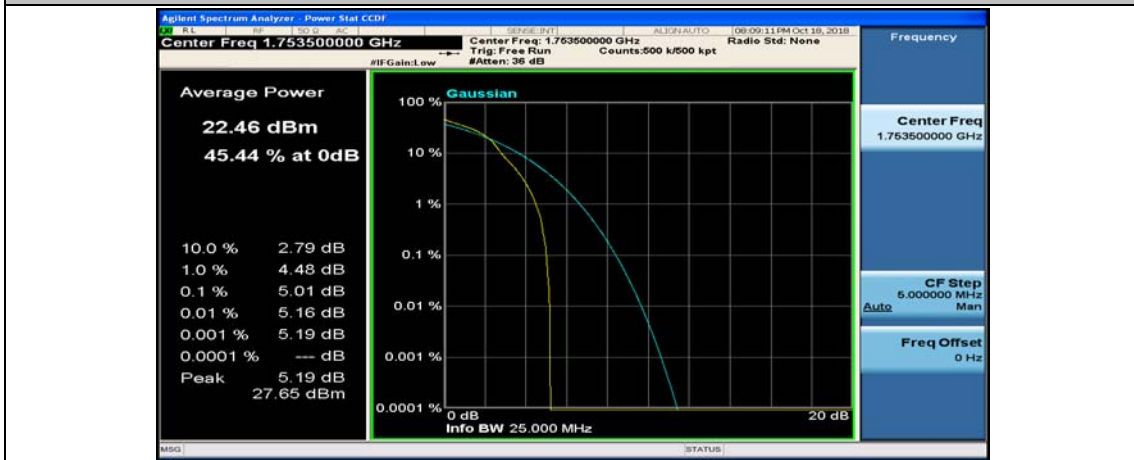


(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#7

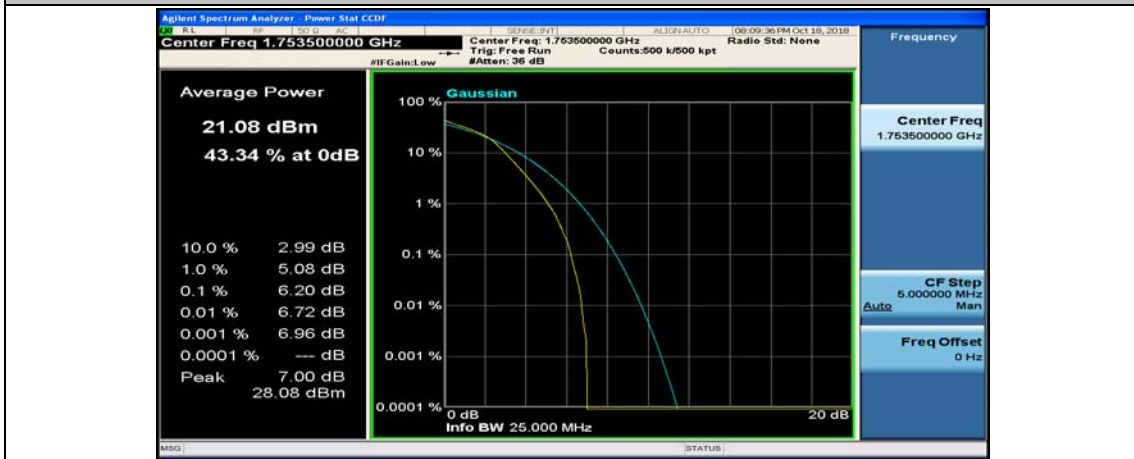




(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#14



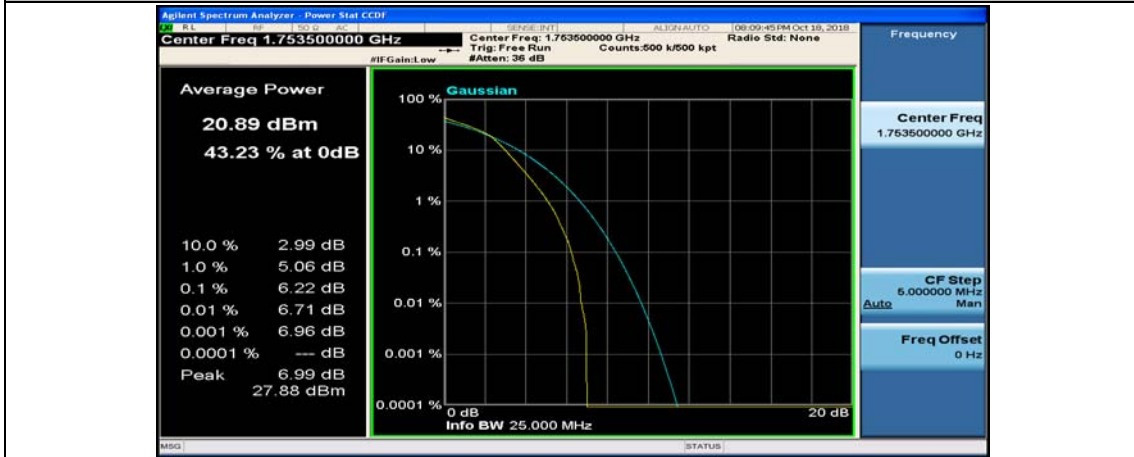
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#4



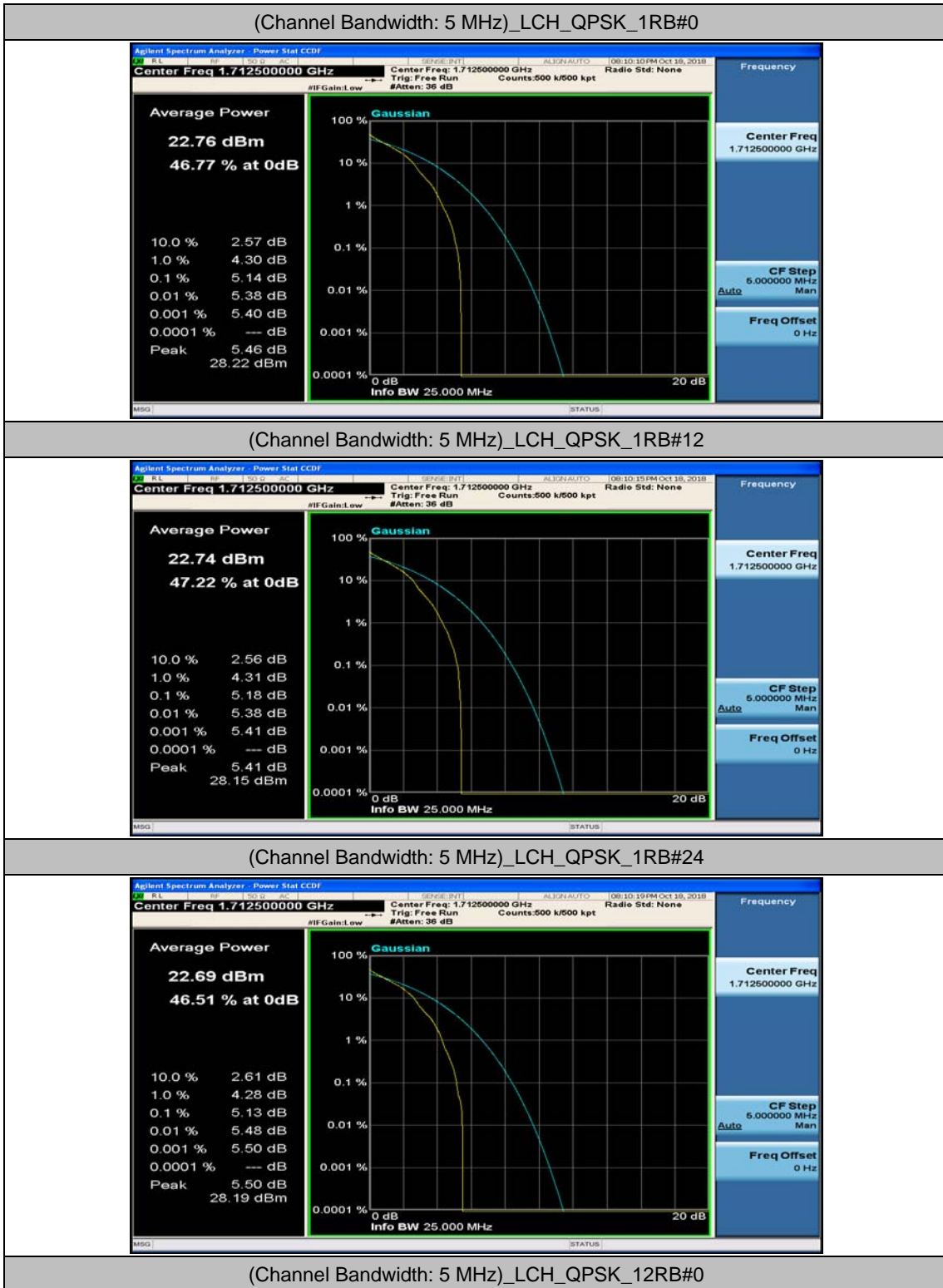
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#7

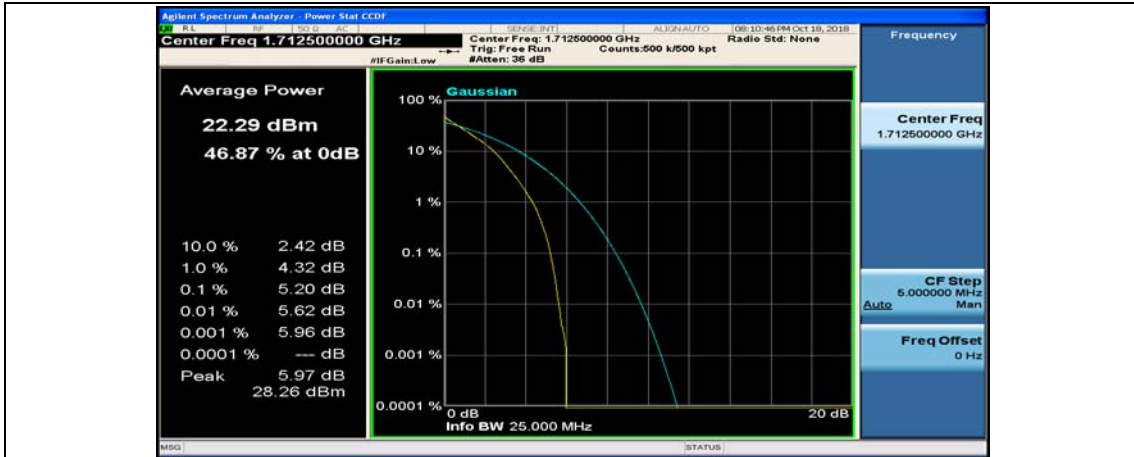


(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_15RB#0



### Channel Bandwidth: 5 MHz





(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6



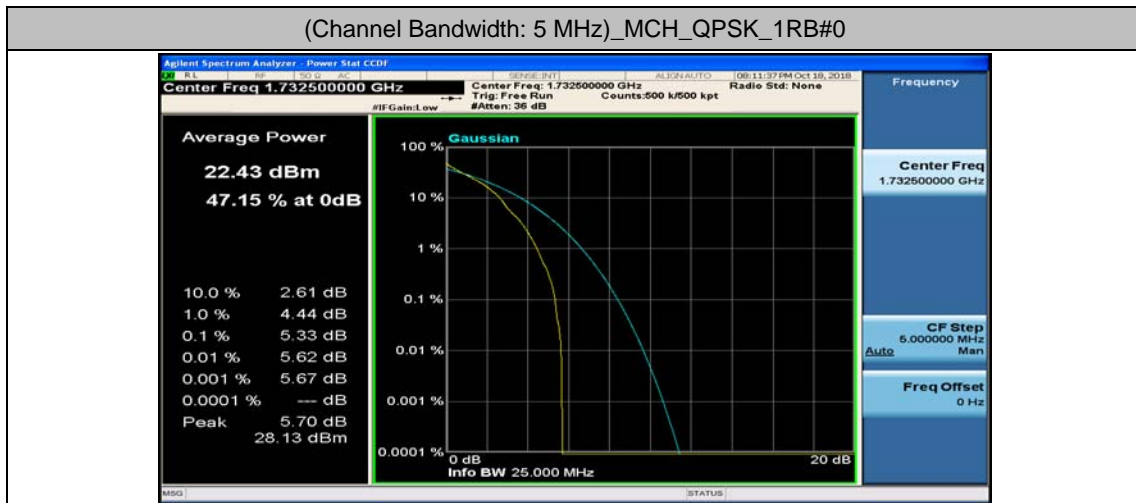
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



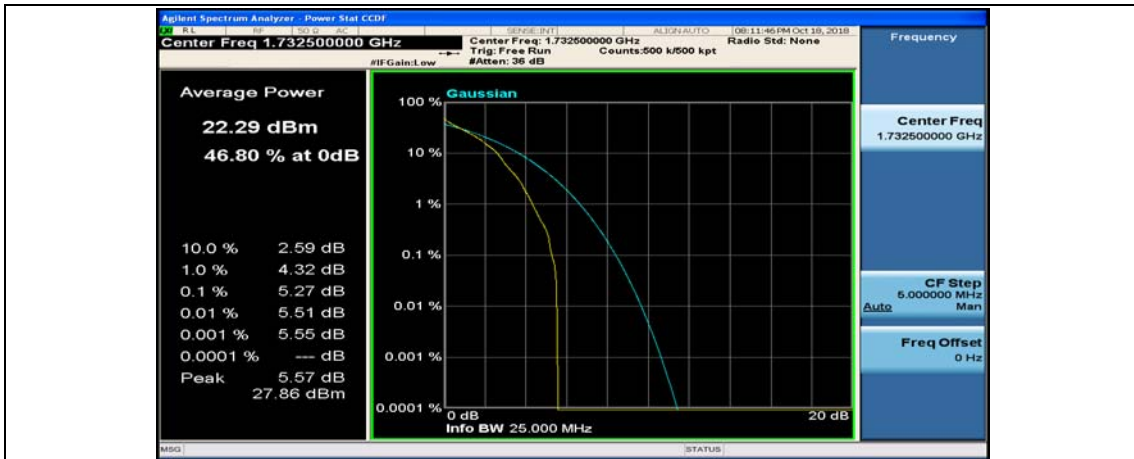
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



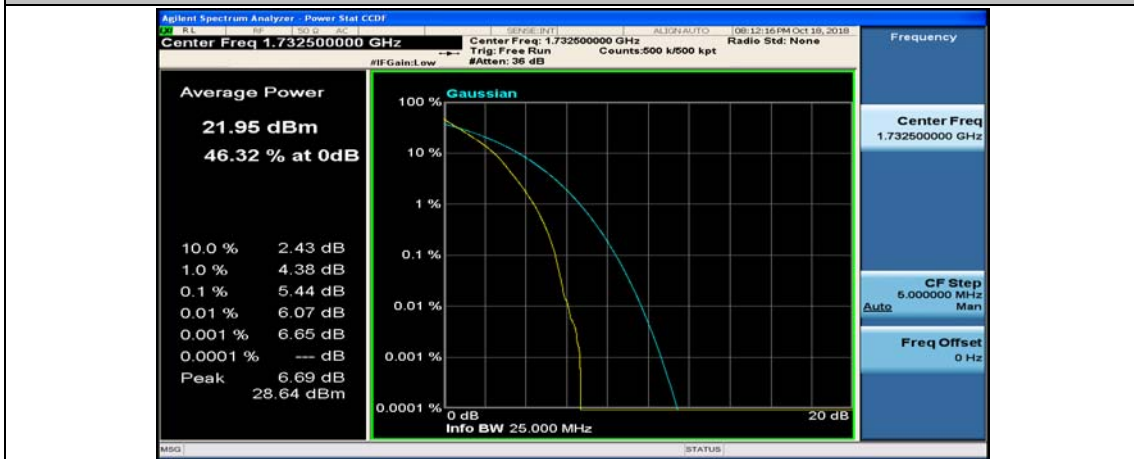
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



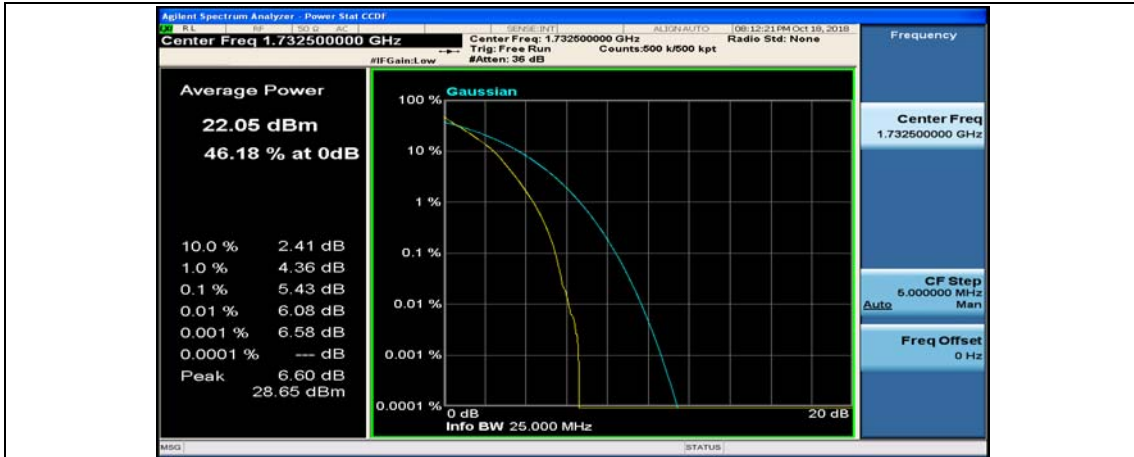
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



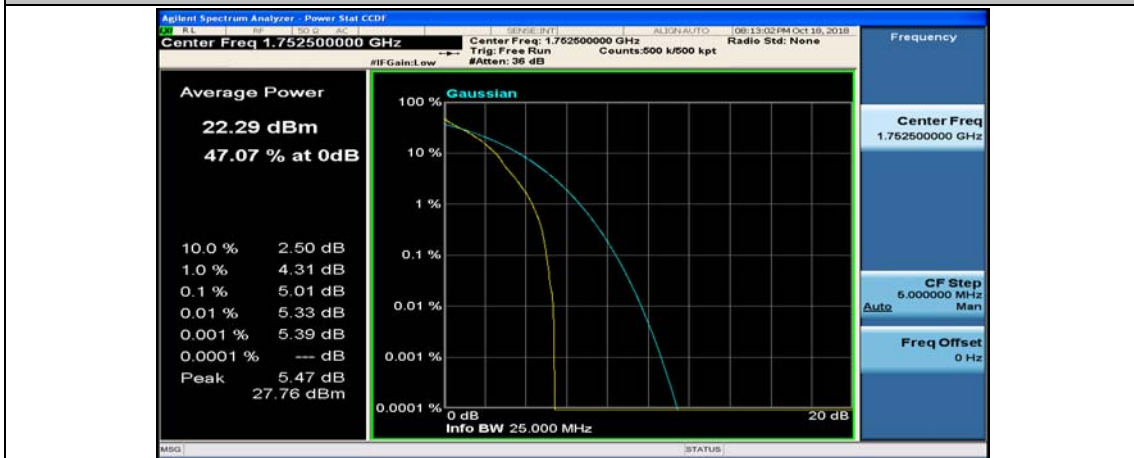
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#0

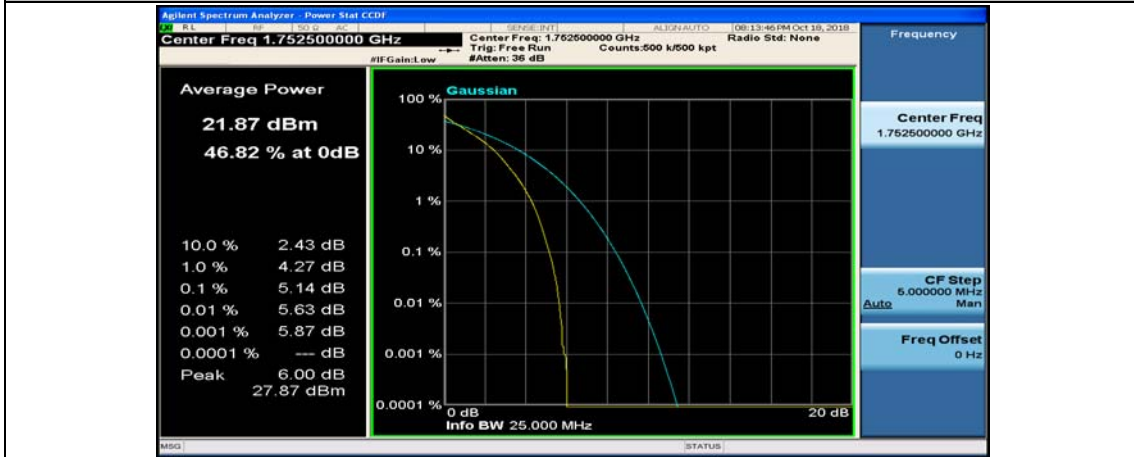


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#6





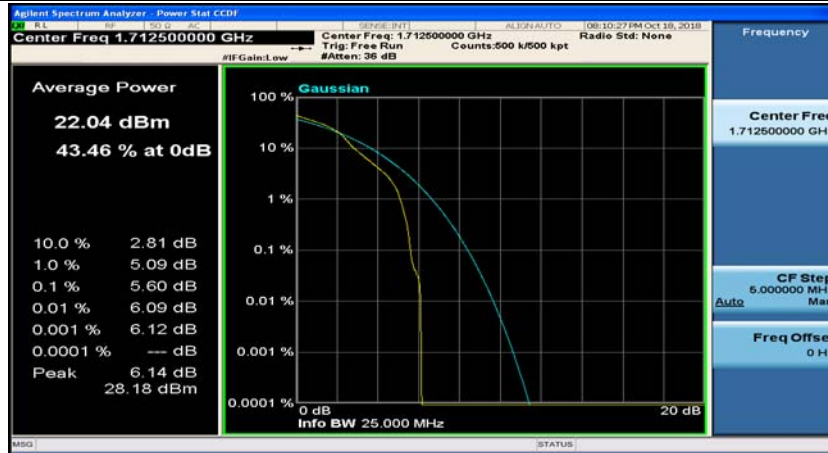
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0