

## **Appendix for Band 4**

Product Name: 4G Power Socket  
Model No: GSMSOCUS4G

## 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      | 23.35               | PASS    |
|            |         | 1                | 3      | 23.61               | PASS    |
|            |         | 1                | 5      | 23.73               | PASS    |
|            |         | 3                | 0      | 23.63               | PASS    |
|            |         | 3                | 2      | 23.34               | PASS    |
|            |         | 3                | 3      | 23.30               | PASS    |
|            |         | 6                | 0      | 22.43               | PASS    |
|            | MCH     | 1                | 0      | 23.65               | PASS    |
|            |         | 1                | 3      | 23.79               | PASS    |
|            |         | 1                | 5      | 23.33               | PASS    |
|            |         | 3                | 0      | 23.13               | PASS    |
|            |         | 3                | 2      | 23.21               | PASS    |
|            |         | 3                | 3      | 23.55               | PASS    |
|            |         | 6                | 0      | 22.44               | PASS    |
|            | HCH     | 1                | 0      | 23.50               | PASS    |
|            |         | 1                | 3      | 23.47               | PASS    |
|            |         | 1                | 5      | 23.46               | PASS    |
|            |         | 3                | 0      | 23.47               | PASS    |
|            |         | 3                | 2      | 23.45               | PASS    |
|            |         | 3                | 3      | 23.50               | PASS    |
|            |         | 6                | 0      | 22.55               | PASS    |
| 16QAM      | LCH     | 1                | 0      | 23.00               | PASS    |
|            |         | 1                | 3      | 23.04               | PASS    |
|            |         | 1                | 5      | 22.53               | PASS    |
|            |         | 3                | 0      | 22.84               | PASS    |
|            |         | 3                | 2      | 22.41               | PASS    |
|            |         | 3                | 3      | 22.37               | PASS    |
|            |         | 6                | 0      | 21.34               | PASS    |
|            | MCH     | 1                | 0      | 22.86               | PASS    |
|            |         | 1                | 3      | 22.80               | PASS    |
|            |         | 1                | 5      | 22.74               | PASS    |
|            |         | 3                | 0      | 22.66               | PASS    |
|            |         | 3                | 2      | 22.78               | PASS    |

|  |     |   |   |       |      |
|--|-----|---|---|-------|------|
|  |     | 3 | 3 | 22.76 | PASS |
|  |     | 6 | 0 | 21.06 | PASS |
|  | HCH | 1 | 0 | 22.50 | PASS |
|  |     | 1 | 3 | 22.52 | PASS |
|  |     | 1 | 5 | 22.45 | PASS |
|  |     | 3 | 0 | 22.58 | PASS |
|  |     | 3 | 2 | 22.72 | PASS |
|  |     | 3 | 3 | 22.65 | PASS |
|  |     | 6 | 0 | 21.77 | PASS |

**Channel Bandwidth: 3 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 23.58               | PASS    |
|            |         | 1                | 7      | 23.31               | PASS    |
|            |         | 1                | 14     | 23.47               | PASS    |
|            |         | 8                | 0      | 22.63               | PASS    |
|            |         | 8                | 4      | 22.44               | PASS    |
|            |         | 8                | 7      | 22.40               | PASS    |
|            |         | 15               | 0      | 22.65               | PASS    |
|            | MCH     | 1                | 0      | 23.39               | PASS    |
|            |         | 1                | 7      | 23.72               | PASS    |
|            |         | 1                | 14     | 23.45               | PASS    |
|            |         | 8                | 0      | 22.35               | PASS    |
|            |         | 8                | 4      | 22.26               | PASS    |
|            |         | 8                | 7      | 22.32               | PASS    |
|            |         | 15               | 0      | 22.44               | PASS    |
|            | HCH     | 1                | 0      | 23.52               | PASS    |
|            |         | 1                | 7      | 23.52               | PASS    |
|            |         | 1                | 14     | 23.37               | PASS    |
|            |         | 8                | 0      | 22.58               | PASS    |
|            |         | 8                | 4      | 22.51               | PASS    |
|            |         | 8                | 7      | 22.52               | PASS    |
|            |         | 15               | 0      | 22.61               | PASS    |
| 16QAM      | LCH     | 1                | 0      | 22.97               | PASS    |
|            |         | 1                | 7      | 22.67               | PASS    |
|            |         | 1                | 14     | 22.82               | PASS    |
|            |         | 8                | 0      | 21.14               | PASS    |
|            |         | 8                | 4      | 21.10               | PASS    |
|            |         | 8                | 7      | 20.97               | PASS    |
|            |         | 15               | 0      | 21.36               | PASS    |

|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  | MCH | 1  | 0  | 22.78 | PASS |
|  |     | 1  | 7  | 23.07 | PASS |
|  |     | 1  | 14 | 22.89 | PASS |
|  |     | 8  | 0  | 21.12 | PASS |
|  |     | 8  | 4  | 20.96 | PASS |
|  |     | 8  | 7  | 21.03 | PASS |
|  |     | 15 | 0  | 21.37 | PASS |
|  | HCH | 1  | 0  | 22.36 | PASS |
|  |     | 1  | 7  | 22.58 | PASS |
|  |     | 1  | 14 | 22.51 | PASS |
|  |     | 8  | 0  | 21.44 | PASS |
|  |     | 8  | 4  | 21.50 | PASS |
|  |     | 8  | 7  | 21.50 | PASS |
|  |     | 15 | 0  | 21.62 | PASS |

**Channel Bandwidth: 5 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 23.34               | PASS    |
|            |         | 1                | 12     | 23.36               | PASS    |
|            |         | 1                | 24     | 23.41               | PASS    |
|            |         | 12               | 0      | 22.42               | PASS    |
|            |         | 12               | 6      | 22.44               | PASS    |
|            |         | 12               | 13     | 22.31               | PASS    |
|            |         | 25               | 0      | 22.39               | PASS    |
|            | MCH     | 1                | 0      | 23.33               | PASS    |
|            |         | 1                | 12     | 23.81               | PASS    |
|            |         | 1                | 24     | 23.54               | PASS    |
|            |         | 12               | 0      | 22.24               | PASS    |
|            |         | 12               | 6      | 22.48               | PASS    |
|            |         | 12               | 13     | 22.39               | PASS    |
|            |         | 25               | 0      | 22.45               | PASS    |
|            | HCH     | 1                | 0      | 23.28               | PASS    |
|            |         | 1                | 12     | 23.67               | PASS    |
|            |         | 1                | 24     | 23.39               | PASS    |
|            |         | 12               | 0      | 22.66               | PASS    |
|            |         | 12               | 6      | 22.73               | PASS    |
|            |         | 12               | 13     | 22.68               | PASS    |
|            |         | 25               | 0      | 22.68               | PASS    |
| 16QAM      | LCH     | 1                | 0      | 22.47               | PASS    |
|            |         | 1                | 12     | 22.45               | PASS    |

|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  |     | 1  | 24 | 21.99 | PASS |
|  |     | 12 | 0  | 21.34 | PASS |
|  |     | 12 | 6  | 21.37 | PASS |
|  |     | 12 | 13 | 21.15 | PASS |
|  |     | 25 | 0  | 21.47 | PASS |
|  | MCH | 1  | 0  | 22.32 | PASS |
|  |     | 1  | 12 | 22.53 | PASS |
|  |     | 1  | 24 | 22.54 | PASS |
|  |     | 12 | 0  | 21.28 | PASS |
|  |     | 12 | 6  | 21.41 | PASS |
|  |     | 12 | 13 | 21.23 | PASS |
|  |     | 25 | 0  | 21.28 | PASS |
|  | HCH | 1  | 0  | 22.39 | PASS |
|  |     | 1  | 12 | 22.21 | PASS |
|  |     | 1  | 24 | 21.85 | PASS |
|  |     | 12 | 0  | 21.34 | PASS |
|  |     | 12 | 6  | 21.52 | PASS |
|  |     | 12 | 13 | 21.40 | PASS |
|  |     | 25 | 0  | 21.91 | PASS |

**Channel Bandwidth: 10 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 23.38               | PASS    |
|            |         | 1                | 24     | 23.53               | PASS    |
|            |         | 1                | 49     | 23.16               | PASS    |
|            |         | 25               | 0      | 22.48               | PASS    |
|            |         | 25               | 12     | 22.47               | PASS    |
|            |         | 25               | 25     | 22.38               | PASS    |
|            |         | 50               | 0      | 22.45               | PASS    |
|            | MCH     | 1                | 0      | 23.34               | PASS    |
|            |         | 1                | 24     | 24.02               | PASS    |
|            |         | 1                | 49     | 23.70               | PASS    |
|            |         | 25               | 0      | 22.32               | PASS    |
|            |         | 25               | 12     | 22.49               | PASS    |
|            |         | 25               | 25     | 22.39               | PASS    |
|            |         | 50               | 0      | 22.26               | PASS    |
|            | HCH     | 1                | 0      | 23.67               | PASS    |
|            |         | 1                | 24     | 23.83               | PASS    |
|            |         | 1                | 49     | 23.42               | PASS    |
|            |         | 25               | 0      | 22.67               | PASS    |

|       |     |    |    |       |      |
|-------|-----|----|----|-------|------|
|       |     | 25 | 12 | 22.64 | PASS |
|       |     | 25 | 25 | 22.57 | PASS |
|       |     | 50 | 0  | 22.60 | PASS |
| 16QAM | LCH | 1  | 0  | 23.52 | PASS |
|       |     | 1  | 24 | 23.68 | PASS |
|       |     | 1  | 49 | 22.68 | PASS |
|       |     | 25 | 0  | 21.48 | PASS |
|       |     | 25 | 12 | 21.40 | PASS |
|       |     | 25 | 25 | 21.29 | PASS |
|       |     | 50 | 0  | 21.34 | PASS |
|       | MCH | 1  | 0  | 22.79 | PASS |
|       |     | 1  | 24 | 23.32 | PASS |
|       |     | 1  | 49 | 22.80 | PASS |
|       |     | 25 | 0  | 21.39 | PASS |
|       |     | 25 | 12 | 21.56 | PASS |
|       |     | 25 | 25 | 21.20 | PASS |
|       |     | 50 | 0  | 21.25 | PASS |
|       | HCH | 1  | 0  | 22.57 | PASS |
|       |     | 1  | 24 | 22.65 | PASS |
|       |     | 1  | 49 | 22.58 | PASS |
|       |     | 25 | 0  | 21.64 | PASS |
|       |     | 25 | 12 | 21.59 | PASS |
|       |     | 25 | 25 | 21.48 | PASS |
|       |     | 50 | 0  | 21.69 | PASS |

**Channel Bandwidth: 15 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 23.36               | PASS    |
|            |         | 1                | 37     | 23.40               | PASS    |
|            |         | 1                | 74     | 23.39               | PASS    |
|            |         | 37               | 0      | 22.64               | PASS    |
|            |         | 37               | 18     | 22.45               | PASS    |
|            |         | 37               | 38     | 22.37               | PASS    |
|            |         | 75               | 0      | 22.46               | PASS    |
|            | MCH     | 1                | 0      | 23.23               | PASS    |
|            |         | 1                | 37     | 23.76               | PASS    |
|            |         | 1                | 74     | 23.29               | PASS    |
|            |         | 37               | 0      | 22.32               | PASS    |
|            |         | 37               | 18     | 22.59               | PASS    |
|            |         | 37               | 38     | 22.42               | PASS    |

|       |     |    |    |       |      |
|-------|-----|----|----|-------|------|
|       | HCH | 75 | 0  | 22.33 | PASS |
|       |     | 1  | 0  | 23.60 | PASS |
|       |     | 1  | 37 | 23.63 | PASS |
|       |     | 1  | 74 | 23.48 | PASS |
|       |     | 37 | 0  | 22.66 | PASS |
|       |     | 37 | 18 | 22.57 | PASS |
|       |     | 37 | 38 | 22.51 | PASS |
|       |     | 75 | 0  | 22.59 | PASS |
| 16QAM | LCH | 1  | 0  | 23.46 | PASS |
|       |     | 1  | 37 | 22.82 | PASS |
|       |     | 1  | 74 | 22.43 | PASS |
|       |     | 37 | 0  | 21.54 | PASS |
|       |     | 37 | 18 | 21.27 | PASS |
|       |     | 37 | 38 | 21.12 | PASS |
|       |     | 75 | 0  | 21.44 | PASS |
|       | MCH | 1  | 0  | 22.94 | PASS |
|       |     | 1  | 37 | 23.36 | PASS |
|       |     | 1  | 74 | 23.21 | PASS |
|       |     | 37 | 0  | 21.43 | PASS |
|       |     | 37 | 18 | 21.52 | PASS |
|       |     | 37 | 38 | 21.47 | PASS |
|       |     | 75 | 0  | 21.40 | PASS |
|       | HCH | 1  | 0  | 22.58 | PASS |
|       |     | 1  | 37 | 22.70 | PASS |
|       |     | 1  | 74 | 22.54 | PASS |
|       |     | 37 | 0  | 21.58 | PASS |
|       |     | 37 | 18 | 21.52 | PASS |
|       |     | 37 | 38 | 21.43 | PASS |
|       |     | 75 | 0  | 21.62 | PASS |

**Channel Bandwidth: 20 MHz**

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 23.49               | PASS    |
|            |         | 1                | 49     | 23.20               | PASS    |
|            |         | 1                | 99     | 23.21               | PASS    |
|            |         | 50               | 0      | 22.50               | PASS    |
|            |         | 50               | 25     | 22.51               | PASS    |
|            |         | 50               | 50     | 22.44               | PASS    |
|            |         | 100              | 0      | 22.58               | PASS    |
|            | MCH     | 1                | 0      | 23.70               | PASS    |

|       |     |     |    |       |      |
|-------|-----|-----|----|-------|------|
|       |     | 1   | 49 | 24.08 | PASS |
|       |     | 1   | 99 | 23.48 | PASS |
|       |     | 50  | 0  | 22.33 | PASS |
|       |     | 50  | 25 | 22.54 | PASS |
|       |     | 50  | 50 | 22.39 | PASS |
|       |     | 100 | 0  | 22.37 | PASS |
|       | HCH | 1   | 0  | 23.45 | PASS |
|       |     | 1   | 49 | 24.06 | PASS |
|       |     | 1   | 99 | 23.40 | PASS |
|       |     | 50  | 0  | 22.51 | PASS |
|       |     | 50  | 25 | 22.62 | PASS |
|       |     | 50  | 50 | 22.47 | PASS |
|       |     | 100 | 0  | 22.62 | PASS |
| 16QAM | LCH | 1   | 0  | 22.34 | PASS |
|       |     | 1   | 49 | 22.03 | PASS |
|       |     | 1   | 99 | 21.58 | PASS |
|       |     | 50  | 0  | 21.44 | PASS |
|       |     | 50  | 25 | 21.34 | PASS |
|       |     | 50  | 50 | 21.34 | PASS |
|       |     | 100 | 0  | 21.33 | PASS |
|       | MCH | 1   | 0  | 22.30 | PASS |
|       |     | 1   | 49 | 22.49 | PASS |
|       |     | 1   | 99 | 22.29 | PASS |
|       |     | 50  | 0  | 21.27 | PASS |
|       |     | 50  | 25 | 21.36 | PASS |
|       |     | 50  | 50 | 21.36 | PASS |
|       |     | 100 | 0  | 21.23 | PASS |
|       | HCH | 1   | 0  | 22.19 | PASS |
|       |     | 1   | 49 | 22.53 | PASS |
|       |     | 1   | 99 | 21.88 | PASS |
|       |     | 50  | 0  | 21.60 | PASS |
|       |     | 50  | 25 | 21.63 | PASS |
|       |     | 50  | 50 | 21.54 | PASS |
|       |     | 100 | 0  | 21.62 | 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      | 4.29                          | <13           | PASS    |
|                            |         | 1                | 3      | 4.06                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.12                          | <13           | PASS    |
|                            |         | 3                | 0      | 4.4                           | <13           | PASS    |
|                            |         | 3                | 2      | 4.27                          | <13           | PASS    |
|                            |         | 3                | 3      | 4.41                          | <13           | PASS    |
|                            |         | 6                | 0      | 5.01                          | <13           | PASS    |
|                            | MCH     | 1                | 0      | 5.04                          | <13           | PASS    |
|                            |         | 1                | 3      | 4.89                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.98                          | <13           | PASS    |
|                            |         | 3                | 0      | 5.28                          | <13           | PASS    |
|                            |         | 3                | 2      | 5.17                          | <13           | PASS    |
|                            |         | 3                | 3      | 5.18                          | <13           | PASS    |
|                            |         | 6                | 0      | 5.62                          | <13           | PASS    |
|                            | HCH     | 1                | 0      | 4.59                          | <13           | PASS    |
|                            |         | 1                | 3      | 4.51                          | <13           | PASS    |
|                            |         | 1                | 5      | 4.57                          | <13           | PASS    |
|                            |         | 3                | 0      | 4.67                          | <13           | PASS    |
|                            |         | 3                | 2      | 4.57                          | <13           | PASS    |
|                            |         | 3                | 3      | 4.76                          | <13           | PASS    |
|                            |         | 6                | 0      | 5.15                          | <13           | PASS    |
| 16QAM                      | LCH     | 1                | 0      | 5.21                          | <13           | PASS    |
|                            |         | 1                | 3      | 5.24                          | <13           | PASS    |
|                            |         | 1                | 5      | 5.23                          | <13           | PASS    |
|                            |         | 3                | 0      | 5.33                          | <13           | PASS    |
|                            |         | 3                | 2      | 5.26                          | <13           | PASS    |
|                            |         | 3                | 3      | 5.42                          | <13           | PASS    |
|                            |         | 6                | 0      | 6.04                          | <13           | PASS    |
|                            | MCH     | 1                | 0      | 5.91                          | <13           | PASS    |
|                            |         | 1                | 3      | 5.83                          | <13           | PASS    |
|                            |         | 1                | 5      | 5.81                          | <13           | PASS    |

|  |     |   |   |      |     |      |
|--|-----|---|---|------|-----|------|
|  |     | 3 | 0 | 6.03 | <13 | PASS |
|  |     | 3 | 2 | 6    | <13 | PASS |
|  |     | 3 | 3 | 6.04 | <13 | PASS |
|  |     | 6 | 0 | 6.55 | <13 | PASS |
|  | HCH | 1 | 0 | 5.46 | <13 | PASS |
|  |     | 1 | 3 | 5.49 | <13 | PASS |
|  |     | 1 | 5 | 5.56 | <13 | PASS |
|  |     | 3 | 0 | 5.55 | <13 | PASS |
|  |     | 3 | 2 | 5.58 | <13 | PASS |
|  |     | 3 | 3 | 5.66 | <13 | PASS |
|  |     | 6 | 0 | 6.07 | <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      | 4.45                          | <13           | PASS    |
|                          |         | 1                | 7      | 4.11                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.22                          | <13           | PASS    |
|                          |         | 8                | 0      | 4.71                          | <13           | PASS    |
|                          |         | 8                | 4      | 4.68                          | <13           | PASS    |
|                          |         | 8                | 7      | 4.74                          | <13           | PASS    |
|                          |         | 15               | 0      | 4.89                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.05                          | <13           | PASS    |
|                          |         | 1                | 7      | 4.88                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.96                          | <13           | PASS    |
|                          |         | 8                | 0      | 5.42                          | <13           | PASS    |
|                          |         | 8                | 4      | 5.36                          | <13           | PASS    |
|                          |         | 8                | 7      | 5.39                          | <13           | PASS    |
|                          |         | 15               | 0      | 5.72                          | <13           | PASS    |
|                          | HCH     | 1                | 0      | 4.55                          | <13           | PASS    |
|                          |         | 1                | 7      | 4.42                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.6                           | <13           | PASS    |
|                          |         | 8                | 0      | 4.93                          | <13           | PASS    |
|                          |         | 8                | 4      | 4.9                           | <13           | PASS    |
|                          |         | 8                | 7      | 5                             | <13           | PASS    |
|                          |         | 15               | 0      | 5.13                          | <13           | PASS    |
| 16QAM                    | LCH     | 1                | 0      | 5.07                          | <13           | PASS    |
|                          |         | 1                | 7      | 5.03                          | <13           | PASS    |
|                          |         | 1                | 14     | 4.86                          | <13           | PASS    |
|                          |         | 8                | 0      | 5.67                          | <13           | PASS    |

|  |     |    |    |      |     |      |
|--|-----|----|----|------|-----|------|
|  |     | 8  | 4  | 5.61 | <13 | PASS |
|  |     | 8  | 7  | 5.74 | <13 | PASS |
|  |     | 15 | 0  | 5.95 | <13 | PASS |
|  | MCH | 1  | 0  | 5.95 | <13 | PASS |
|  |     | 1  | 7  | 5.57 | <13 | PASS |
|  |     | 1  | 14 | 5.83 | <13 | PASS |
|  |     | 8  | 0  | 6.31 | <13 | PASS |
|  |     | 8  | 4  | 6.22 | <13 | PASS |
|  |     | 8  | 7  | 6.27 | <13 | PASS |
|  |     | 15 | 0  | 6.58 | <13 | PASS |
|  | HCH | 1  | 0  | 5.48 | <13 | PASS |
|  |     | 1  | 7  | 5.29 | <13 | PASS |
|  |     | 1  | 14 | 5.44 | <13 | PASS |
|  |     | 8  | 0  | 5.84 | <13 | PASS |
|  |     | 8  | 4  | 5.81 | <13 | PASS |
|  |     | 8  | 7  | 5.89 | <13 | PASS |
|  |     | 15 | 0  | 6.08 | <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      | 4.4                           | <13           | PASS    |
|                          |         | 1                | 12     | 4.08                          | <13           | PASS    |
|                          |         | 1                | 24     | 4.26                          | <13           | PASS    |
|                          |         | 12               | 0      | 4.76                          | <13           | PASS    |
|                          |         | 12               | 6      | 4.62                          | <13           | PASS    |
|                          |         | 12               | 13     | 4.68                          | <13           | PASS    |
|                          |         | 25               | 0      | 4.98                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.04                          | <13           | PASS    |
|                          |         | 1                | 12     | 4.81                          | <13           | PASS    |
|                          |         | 1                | 24     | 4.91                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.29                          | <13           | PASS    |
|                          |         | 12               | 6      | 5.23                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.29                          | <13           | PASS    |
|                          |         | 25               | 0      | 5.64                          | <13           | PASS    |
|                          | HCH     | 1                | 0      | 4.48                          | <13           | PASS    |
|                          |         | 1                | 12     | 4.36                          | <13           | PASS    |
|                          |         | 1                | 24     | 4.62                          | <13           | PASS    |
|                          |         | 12               | 0      | 4.81                          | <13           | PASS    |
|                          |         | 12               | 6      | 4.79                          | <13           | PASS    |

|       |     |    |    |      |     |      |
|-------|-----|----|----|------|-----|------|
|       |     | 12 | 13 | 4.88 | <13 | PASS |
|       |     | 25 | 0  | 5.11 | <13 | PASS |
| 16QAM | LCH | 1  | 0  | 5.28 | <13 | PASS |
|       |     | 1  | 12 | 5.04 | <13 | PASS |
|       |     | 1  | 24 | 5.26 | <13 | PASS |
|       |     | 12 | 0  | 5.67 | <13 | PASS |
|       |     | 12 | 6  | 5.52 | <13 | PASS |
|       |     | 12 | 13 | 5.61 | <13 | PASS |
|       |     | 25 | 0  | 5.78 | <13 | PASS |
|       |     | 25 | 0  | 5.78 | <13 | PASS |
|       | MCH | 1  | 0  | 5.89 | <13 | PASS |
|       |     | 1  | 12 | 5.67 | <13 | PASS |
|       |     | 1  | 24 | 5.77 | <13 | PASS |
|       |     | 12 | 0  | 6.27 | <13 | PASS |
|       |     | 12 | 6  | 6.19 | <13 | PASS |
|       |     | 12 | 13 | 6.23 | <13 | PASS |
|       |     | 25 | 0  | 6.53 | <13 | PASS |
|       |     | 25 | 0  | 6.53 | <13 | PASS |
|       | HCH | 1  | 0  | 5.18 | <13 | PASS |
|       |     | 1  | 12 | 5.24 | <13 | PASS |
|       |     | 1  | 24 | 5.44 | <13 | PASS |
|       |     | 12 | 0  | 5.78 | <13 | PASS |
|       |     | 12 | 6  | 5.7  | <13 | PASS |
|       |     | 12 | 13 | 5.87 | <13 | PASS |
|       |     | 25 | 0  | 5.95 | <13 | PASS |
|       |     | 25 | 0  | 5.95 | <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      | 4.35                          | <13           | PASS    |
|                           |         | 1                | 24     | 4.13                          | <13           | PASS    |
|                           |         | 1                | 49     | 4.43                          | <13           | PASS    |
|                           |         | 25               | 0      | 4.68                          | <13           | PASS    |
|                           |         | 25               | 12     | 4.62                          | <13           | PASS    |
|                           |         | 25               | 25     | 4.74                          | <13           | PASS    |
|                           |         | 50               | 0      | 4.99                          | <13           | PASS    |
|                           |         | 50               | 0      | 4.99                          | <13           | PASS    |
|                           | MCH     | 1                | 0      | 5                             | <13           | PASS    |
|                           |         | 1                | 24     | 4.98                          | <13           | PASS    |
|                           |         | 1                | 49     | 4.81                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.32                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.24                          | <13           | PASS    |
|                           |         | 25               | 25     | 5.31                          | <13           | PASS    |

|       |     |    |    |      |     |      |
|-------|-----|----|----|------|-----|------|
|       | HCH | 50 | 0  | 5.65 | <13 | PASS |
|       |     | 1  | 0  | 4.39 | <13 | PASS |
|       |     | 1  | 24 | 4.28 | <13 | PASS |
|       |     | 1  | 49 | 4.48 | <13 | PASS |
|       |     | 25 | 0  | 4.72 | <13 | PASS |
|       |     | 25 | 12 | 4.64 | <13 | PASS |
|       |     | 25 | 25 | 4.82 | <13 | PASS |
|       |     | 50 | 0  | 5.08 | <13 | PASS |
| 16QAM | LCH | 1  | 0  | 4.84 | <13 | PASS |
|       |     | 1  | 24 | 4.82 | <13 | PASS |
|       |     | 1  | 49 | 5.18 | <13 | PASS |
|       |     | 25 | 0  | 5.59 | <13 | PASS |
|       |     | 25 | 12 | 5.52 | <13 | PASS |
|       |     | 25 | 25 | 5.67 | <13 | PASS |
|       |     | 50 | 0  | 5.84 | <13 | PASS |
|       | MCH | 1  | 0  | 5.87 | <13 | PASS |
|       |     | 1  | 24 | 5.82 | <13 | PASS |
|       |     | 1  | 49 | 5.67 | <13 | PASS |
|       |     | 25 | 0  | 6.26 | <13 | PASS |
|       |     | 25 | 12 | 6.18 | <13 | PASS |
|       |     | 25 | 25 | 6.25 | <13 | PASS |
|       |     | 50 | 0  | 6.45 | <13 | PASS |
|       | HCH | 1  | 0  | 5.27 | <13 | PASS |
|       |     | 1  | 24 | 5.13 | <13 | PASS |
|       |     | 1  | 49 | 5.27 | <13 | PASS |
|       |     | 25 | 0  | 5.68 | <13 | PASS |
|       |     | 25 | 12 | 5.63 | <13 | PASS |
|       |     | 25 | 25 | 5.77 | <13 | PASS |
|       |     | 50 | 0  | 5.99 | <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      | 4.31                          | <13           | PASS    |
|                           |         | 1                | 37     | 4.3                           | <13           | PASS    |
|                           |         | 1                | 74     | 4.86                          | <13           | PASS    |
|                           |         | 37               | 0      | 4.68                          | <13           | PASS    |
|                           |         | 37               | 18     | 4.72                          | <13           | PASS    |
|                           |         | 37               | 38     | 4.94                          | <13           | PASS    |
|                           |         | 75               | 0      | 5.34                          | <13           | PASS    |

|       |     |    |    |      |     |      |
|-------|-----|----|----|------|-----|------|
|       | MCH | 1  | 0  | 4.91 | <13 | PASS |
|       |     | 1  | 37 | 4.85 | <13 | PASS |
|       |     | 1  | 74 | 4.65 | <13 | PASS |
|       |     | 37 | 0  | 5.29 | <13 | PASS |
|       |     | 37 | 18 | 5.24 | <13 | PASS |
|       |     | 37 | 38 | 5.22 | <13 | PASS |
|       |     | 75 | 0  | 5.68 | <13 | PASS |
|       | HCH | 1  | 0  | 4.57 | <13 | PASS |
|       |     | 1  | 37 | 4.23 | <13 | PASS |
|       |     | 1  | 74 | 4.44 | <13 | PASS |
|       |     | 37 | 0  | 4.82 | <13 | PASS |
|       |     | 37 | 18 | 4.71 | <13 | PASS |
|       |     | 37 | 38 | 4.77 | <13 | PASS |
|       |     | 75 | 0  | 5.32 | <13 | PASS |
| 16QAM | LCH | 1  | 0  | 4.98 | <13 | PASS |
|       |     | 1  | 37 | 5.13 | <13 | PASS |
|       |     | 1  | 74 | 5.48 | <13 | PASS |
|       |     | 37 | 0  | 5.6  | <13 | PASS |
|       |     | 37 | 18 | 5.62 | <13 | PASS |
|       |     | 37 | 38 | 5.89 | <13 | PASS |
|       |     | 75 | 0  | 6.05 | <13 | PASS |
|       | MCH | 1  | 0  | 5.79 | <13 | PASS |
|       |     | 1  | 37 | 5.55 | <13 | PASS |
|       |     | 1  | 74 | 5.44 | <13 | PASS |
|       |     | 37 | 0  | 6.24 | <13 | PASS |
|       |     | 37 | 18 | 6.17 | <13 | PASS |
|       |     | 37 | 38 | 6.17 | <13 | PASS |
|       |     | 75 | 0  | 6.44 | <13 | PASS |
|       | HCH | 1  | 0  | 5.4  | <13 | PASS |
|       |     | 1  | 37 | 5.06 | <13 | PASS |
|       |     | 1  | 74 | 5.25 | <13 | PASS |
|       |     | 37 | 0  | 5.71 | <13 | PASS |
|       |     | 37 | 18 | 5.56 | <13 | PASS |
|       |     | 37 | 38 | 5.68 | <13 | PASS |
|       |     | 75 | 0  | 6.02 | <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      | 4.27                          | <13           | PASS    |

|       |     |     |    |      |     |      |
|-------|-----|-----|----|------|-----|------|
|       |     | 1   | 49 | 4.49 | <13 | PASS |
|       |     | 1   | 99 | 4.86 | <13 | PASS |
|       |     | 50  | 0  | 4.79 | <13 | PASS |
|       |     | 50  | 25 | 4.96 | <13 | PASS |
|       |     | 50  | 50 | 5.14 | <13 | PASS |
|       |     | 100 | 0  | 5.29 | <13 | PASS |
|       | MCH | 1   | 0  | 4.62 | <13 | PASS |
|       |     | 1   | 49 | 4.85 | <13 | PASS |
|       |     | 1   | 99 | 4.49 | <13 | PASS |
|       |     | 50  | 0  | 5.36 | <13 | PASS |
|       |     | 50  | 25 | 5.27 | <13 | PASS |
|       |     | 50  | 50 | 5.19 | <13 | PASS |
|       |     | 100 | 0  | 5.41 | <13 | PASS |
|       | HCH | 1   | 0  | 4.86 | <13 | PASS |
|       |     | 1   | 49 | 4.17 | <13 | PASS |
|       |     | 1   | 99 | 4.47 | <13 | PASS |
|       |     | 50  | 0  | 5.03 | <13 | PASS |
|       |     | 50  | 25 | 4.81 | <13 | PASS |
|       |     | 50  | 50 | 4.83 | <13 | PASS |
|       |     | 100 | 0  | 5.14 | <13 | PASS |
| 16QAM | LCH | 1   | 0  | 5.04 | <13 | PASS |
|       |     | 1   | 49 | 5.24 | <13 | PASS |
|       |     | 1   | 99 | 5.62 | <13 | PASS |
|       |     | 50  | 0  | 5.71 | <13 | PASS |
|       |     | 50  | 25 | 5.8  | <13 | PASS |
|       |     | 50  | 50 | 6.08 | <13 | PASS |
|       |     | 100 | 0  | 6.08 | <13 | PASS |
|       | MCH | 1   | 0  | 5.65 | <13 | PASS |
|       |     | 1   | 49 | 5.72 | <13 | PASS |
|       |     | 1   | 99 | 5.36 | <13 | PASS |
|       |     | 50  | 0  | 6.25 | <13 | PASS |
|       |     | 50  | 25 | 6.2  | <13 | PASS |
|       |     | 50  | 50 | 6.11 | <13 | PASS |
|       |     | 100 | 0  | 6.29 | <13 | PASS |
|       | HCH | 1   | 0  | 5.72 | <13 | PASS |
|       |     | 1   | 49 | 5.18 | <13 | PASS |
|       |     | 1   | 99 | 5.48 | <13 | PASS |
|       |     | 50  | 0  | 5.96 | <13 | PASS |
|       |     | 50  | 25 | 5.72 | <13 | PASS |
|       |     | 50  | 50 | 5.72 | <13 | PASS |
|       |     | 100 | 0  | 6.01 | <13 | PASS |

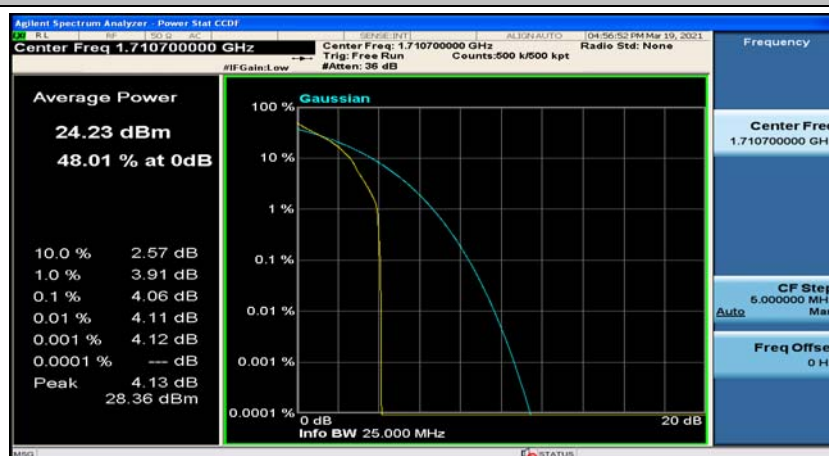
## Test Graphs

### Channel Bandwidth: 1.4 MHz

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



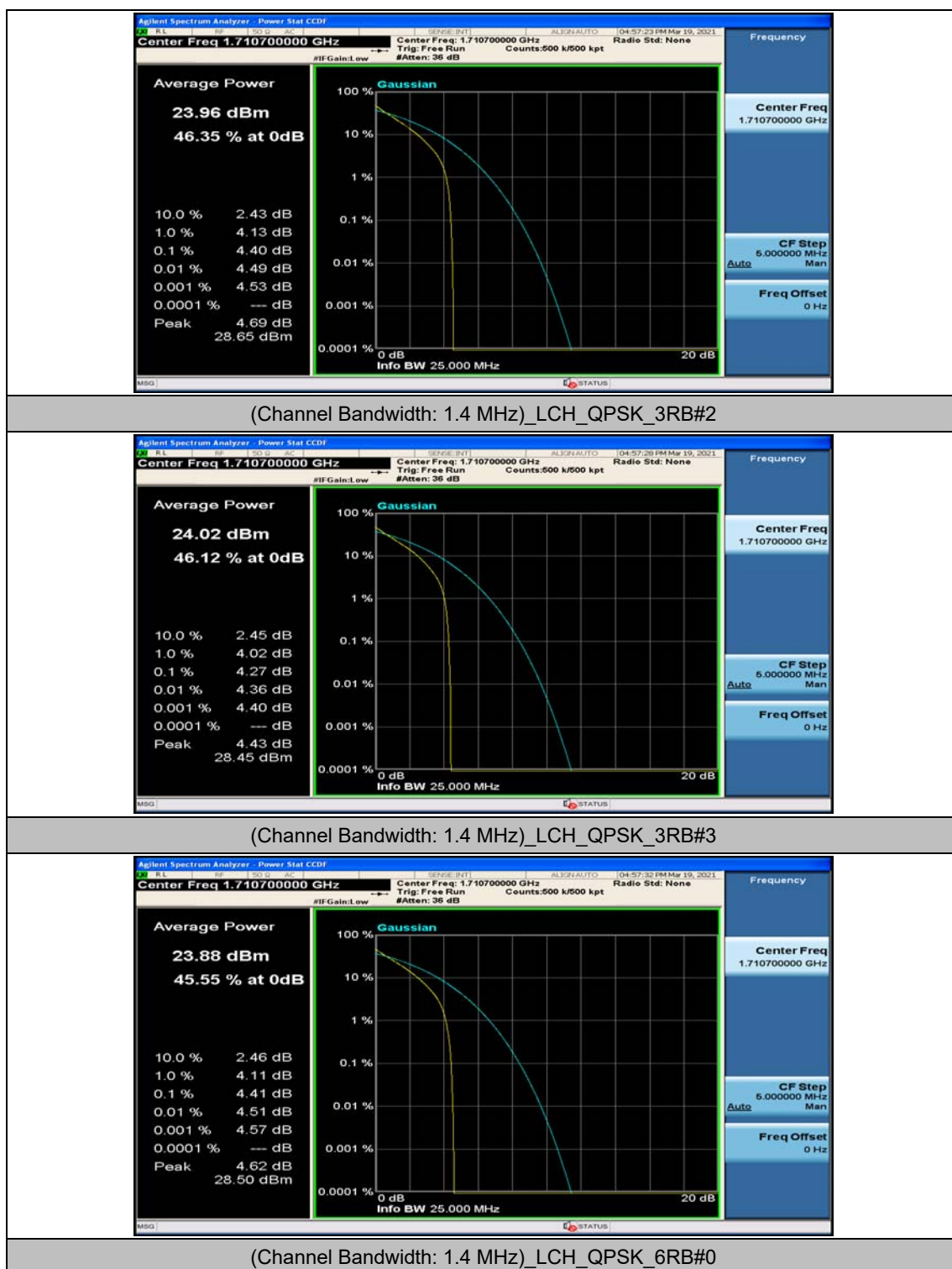
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_1RB#3

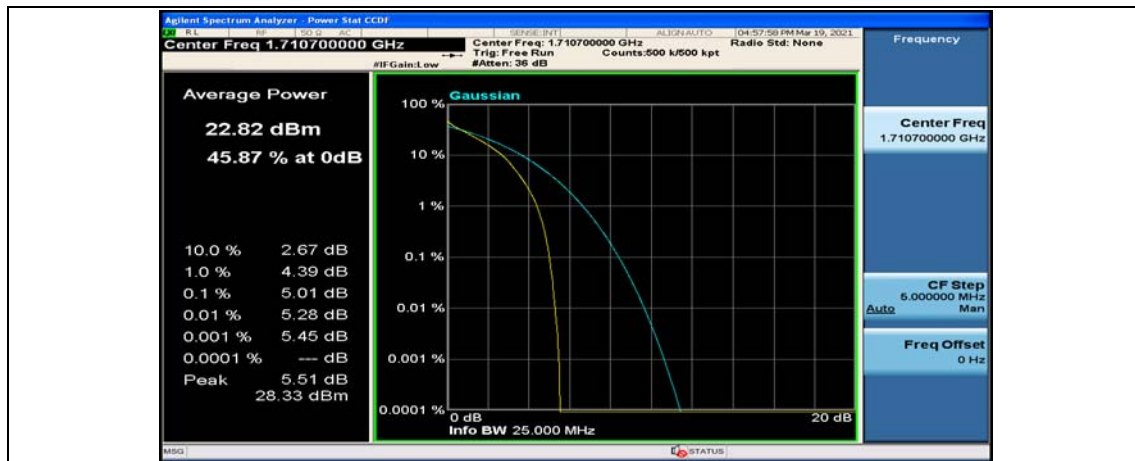


(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_1RB#5



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





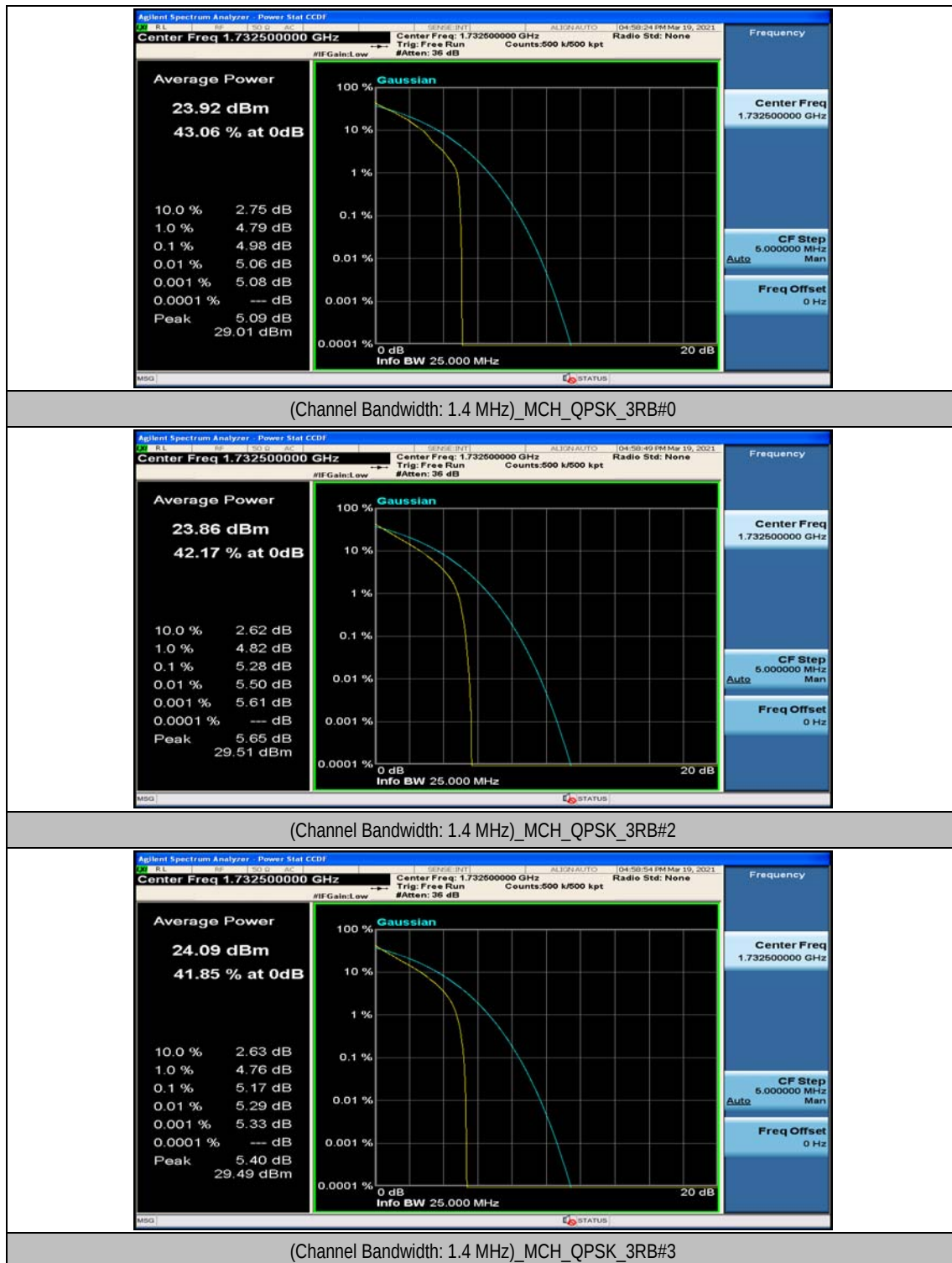
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#0



(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\_6RB#0



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



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



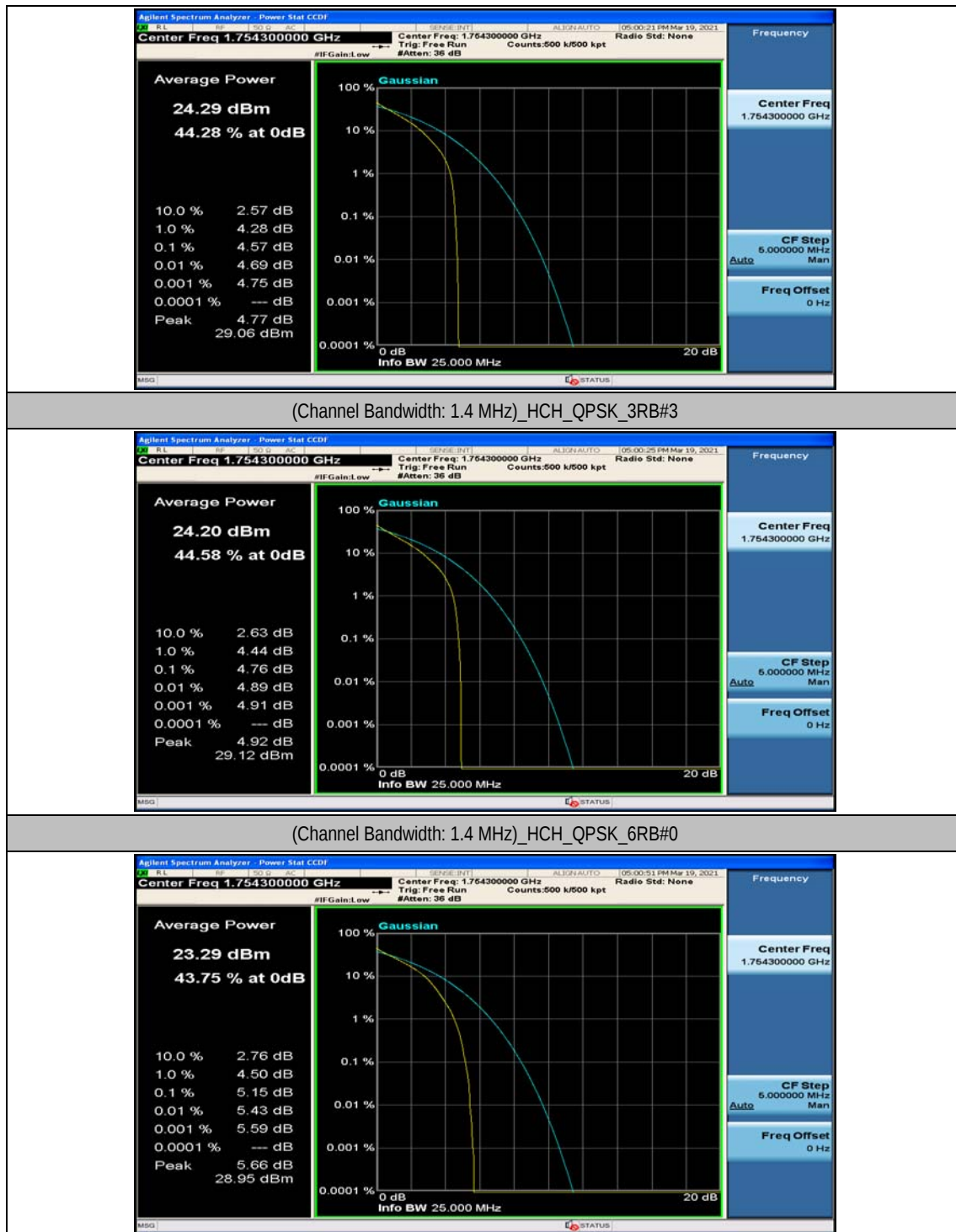
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#5



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



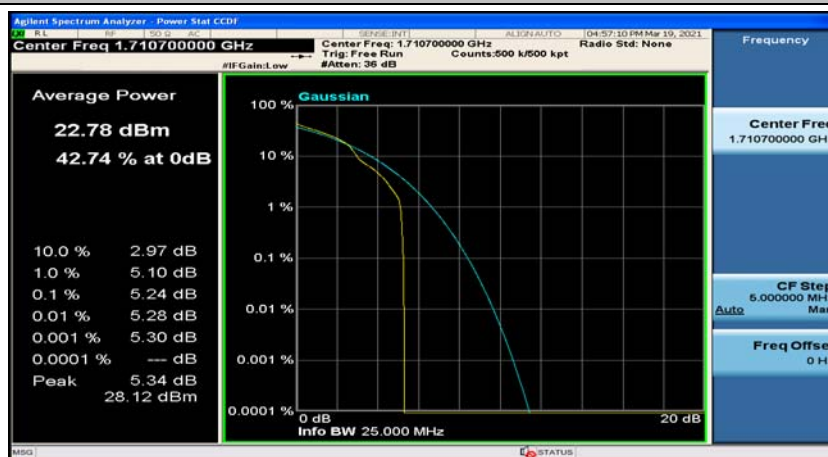
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#2



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



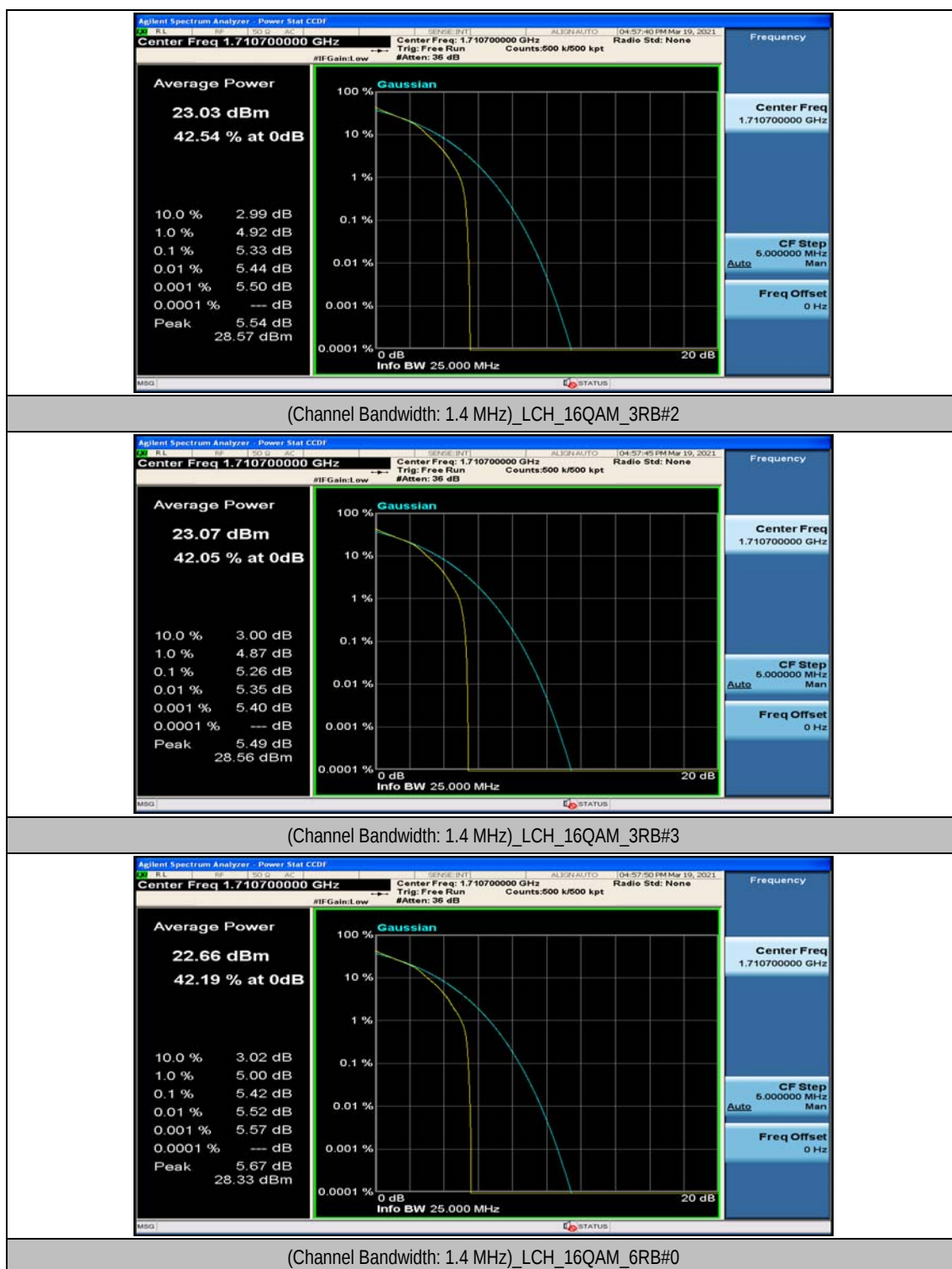
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3

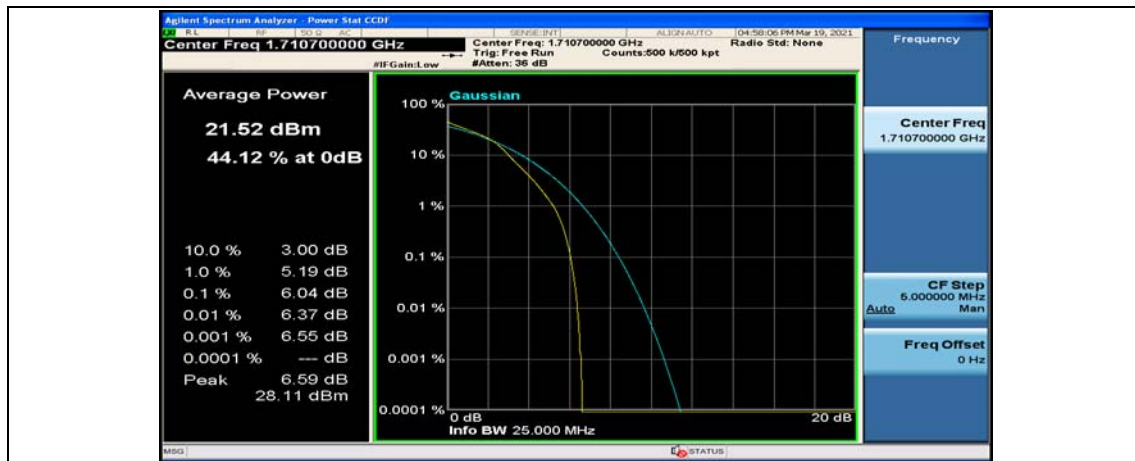


(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#5



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





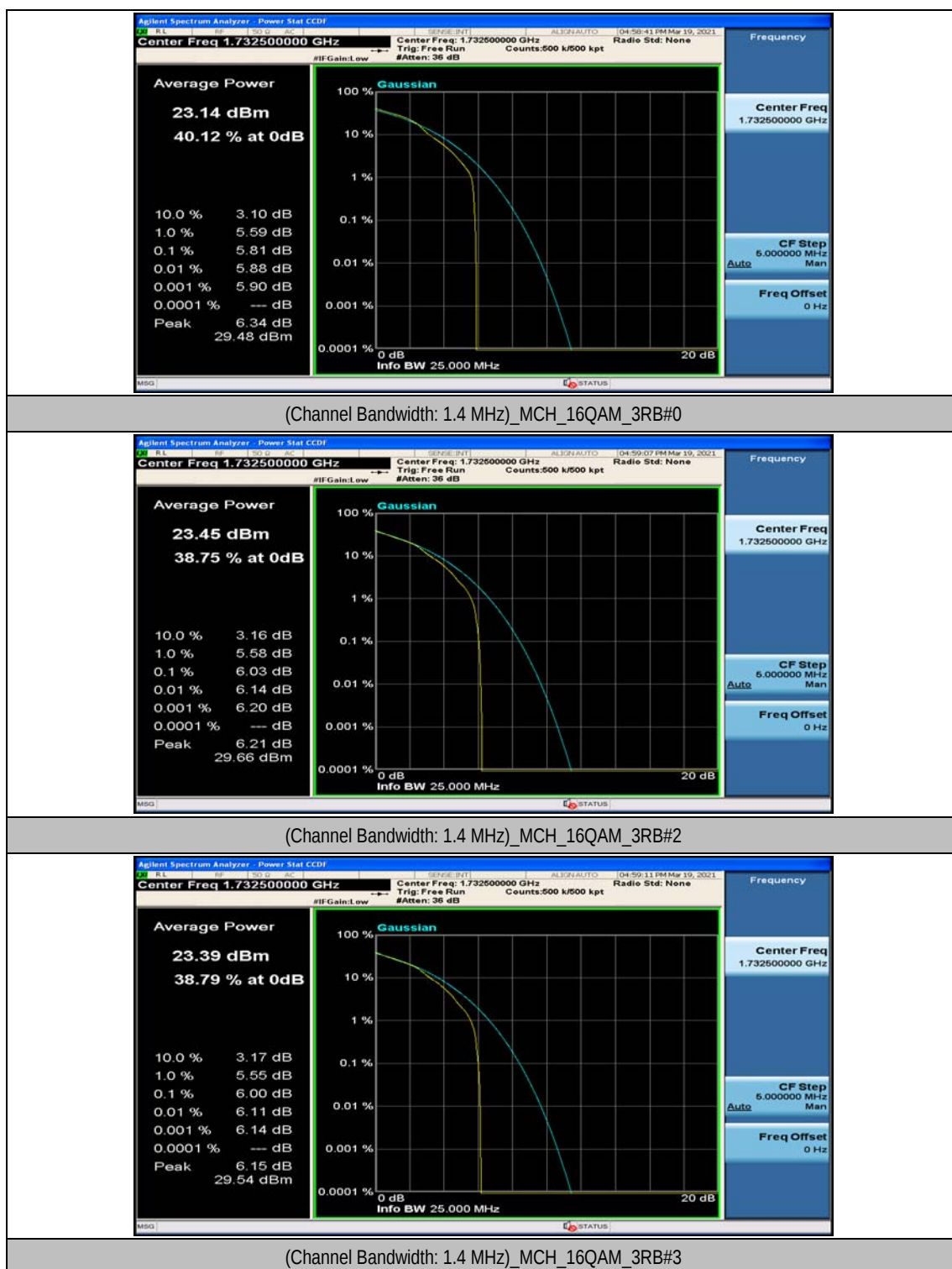
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#0



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



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





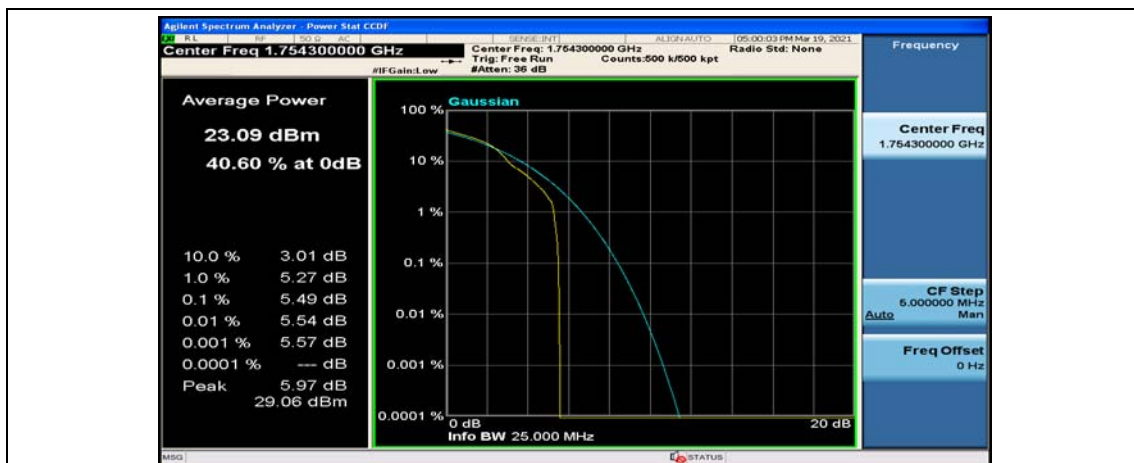
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_6RB#0



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



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



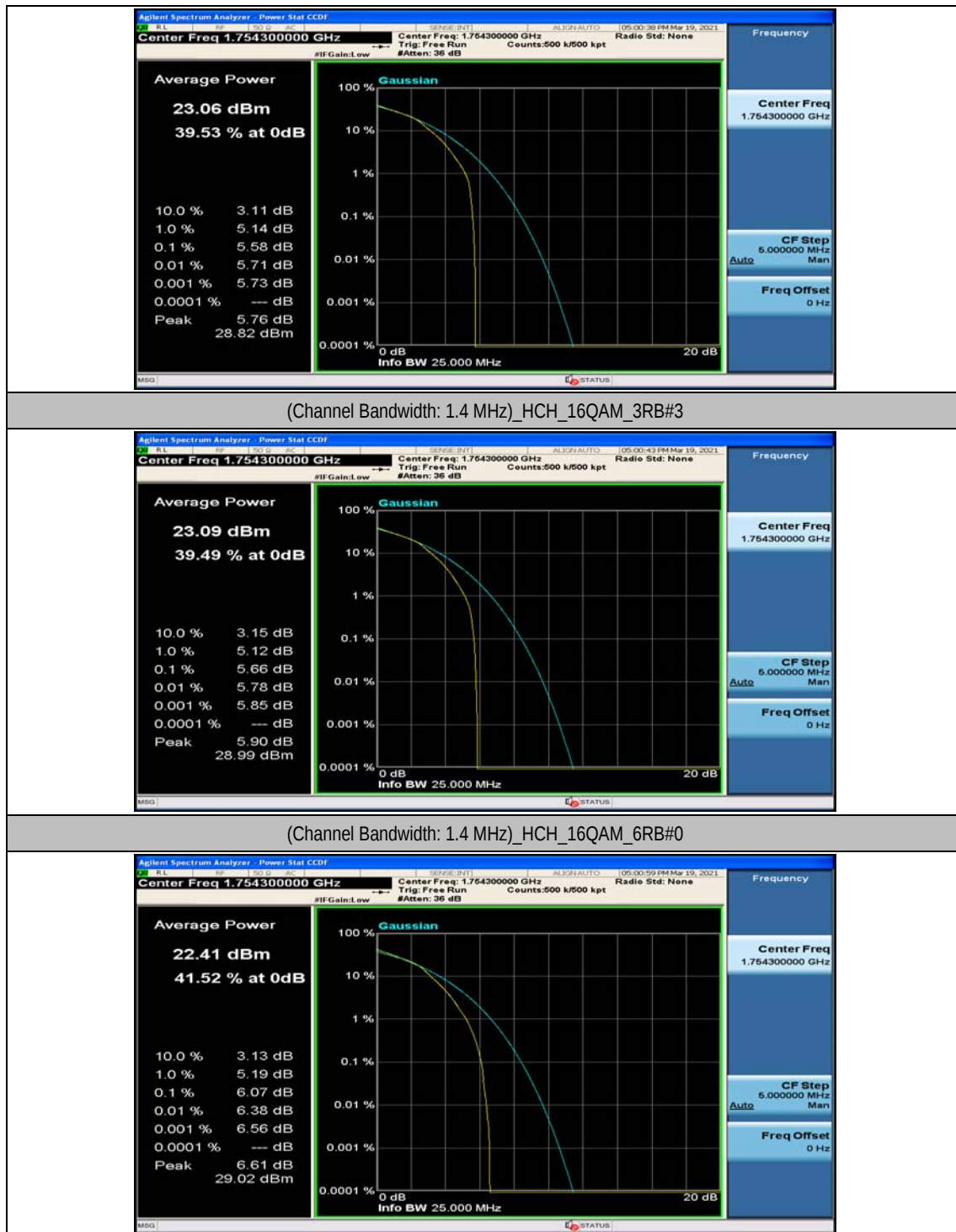
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#5



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



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



## Channel Bandwidth: 3 MHz

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



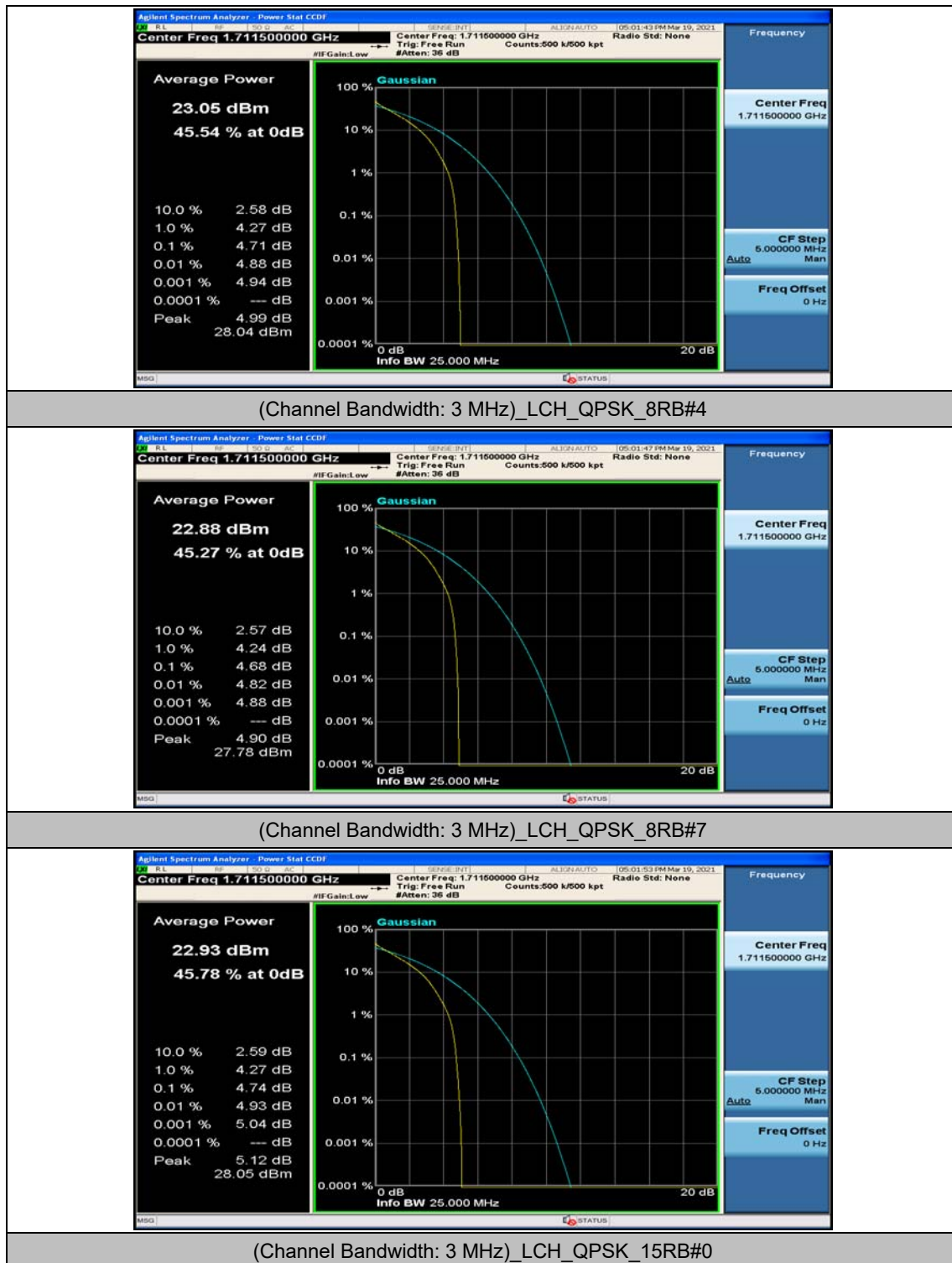
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#7

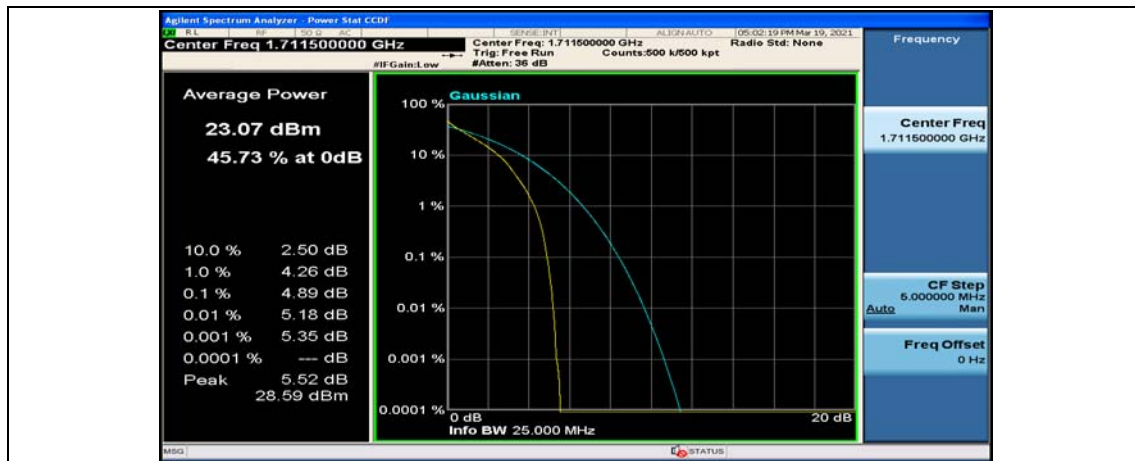


(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#14



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





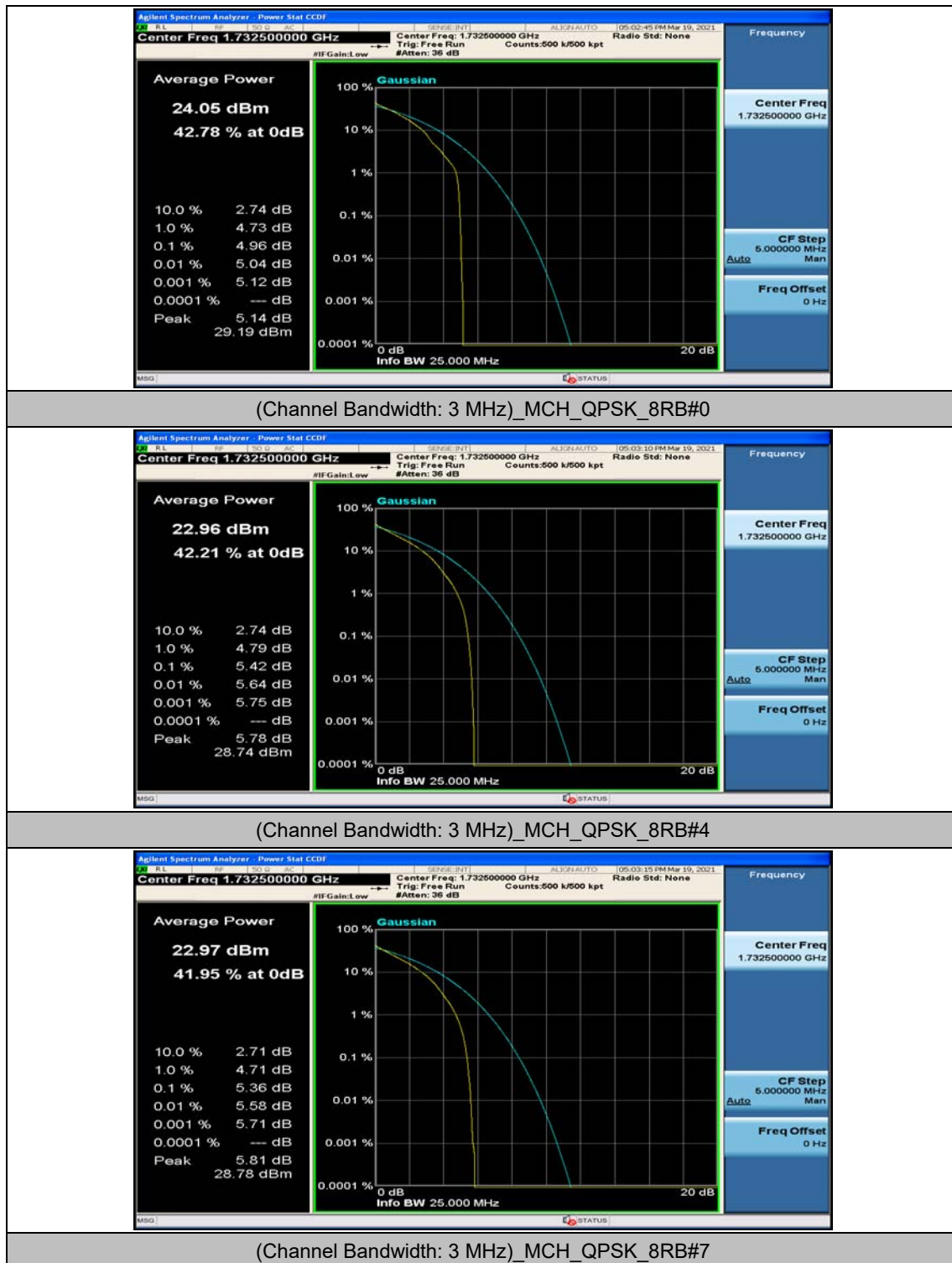
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0



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



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





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



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



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



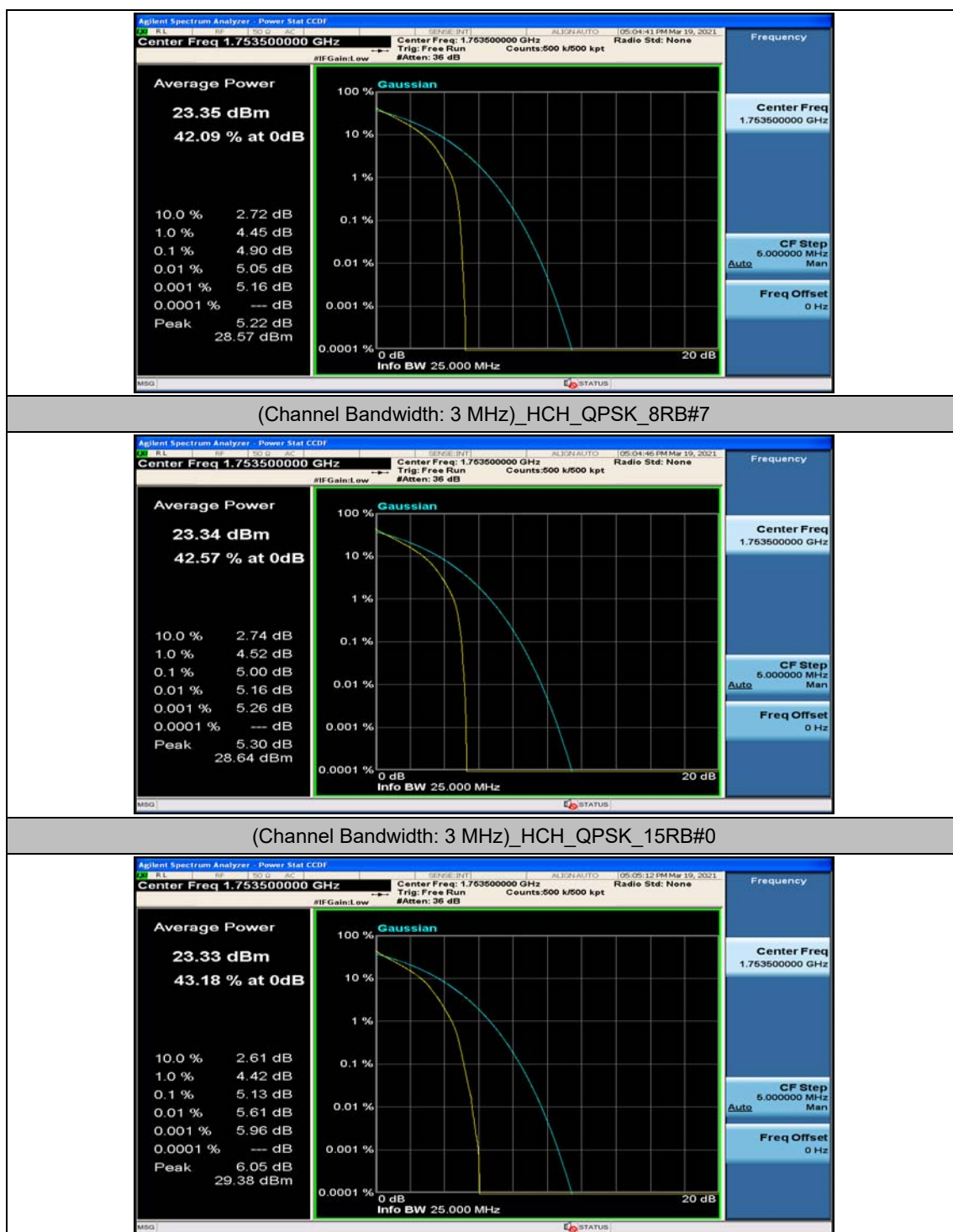
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#14



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



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



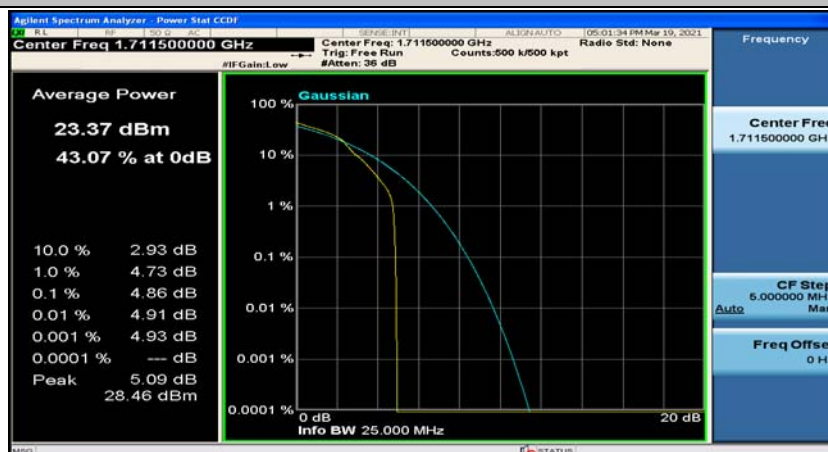
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#0



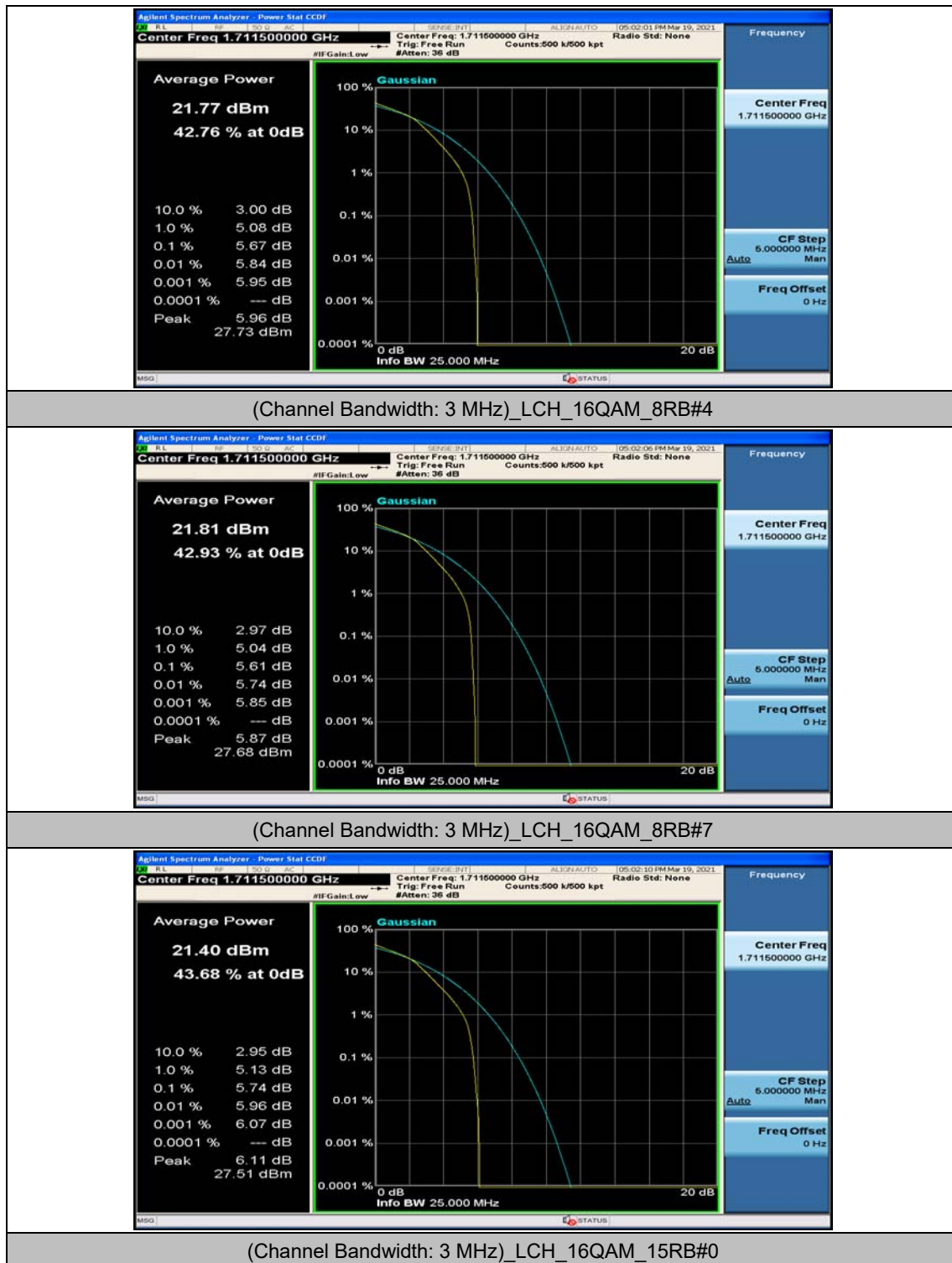
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#7

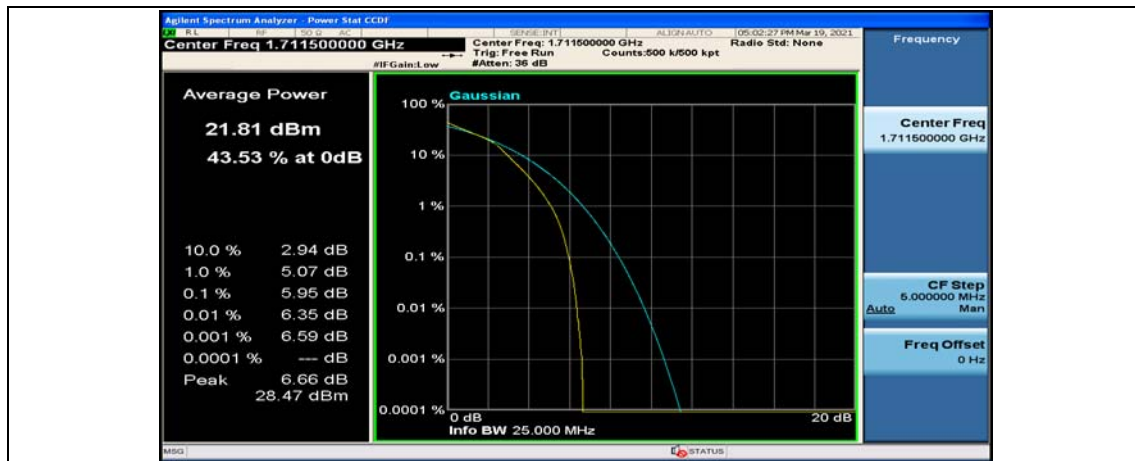


(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#14

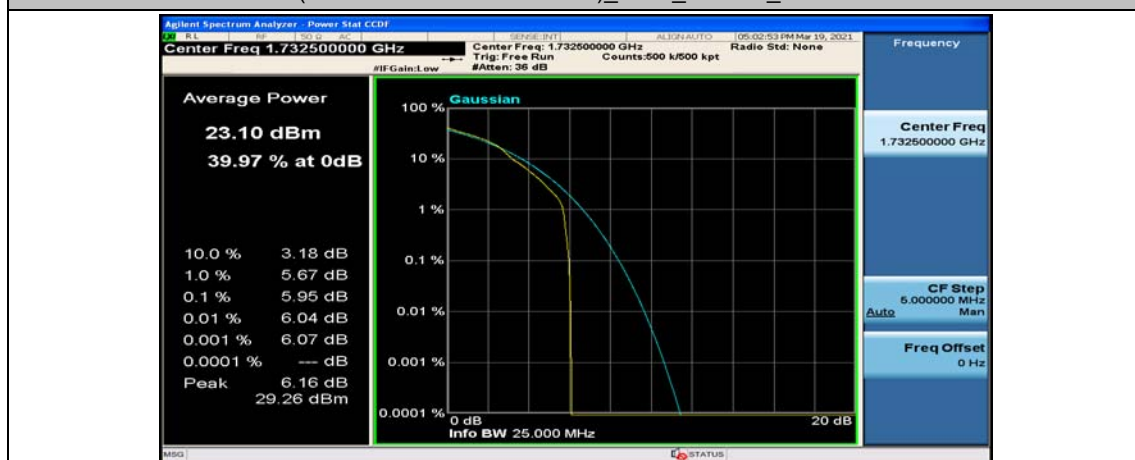


(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#0





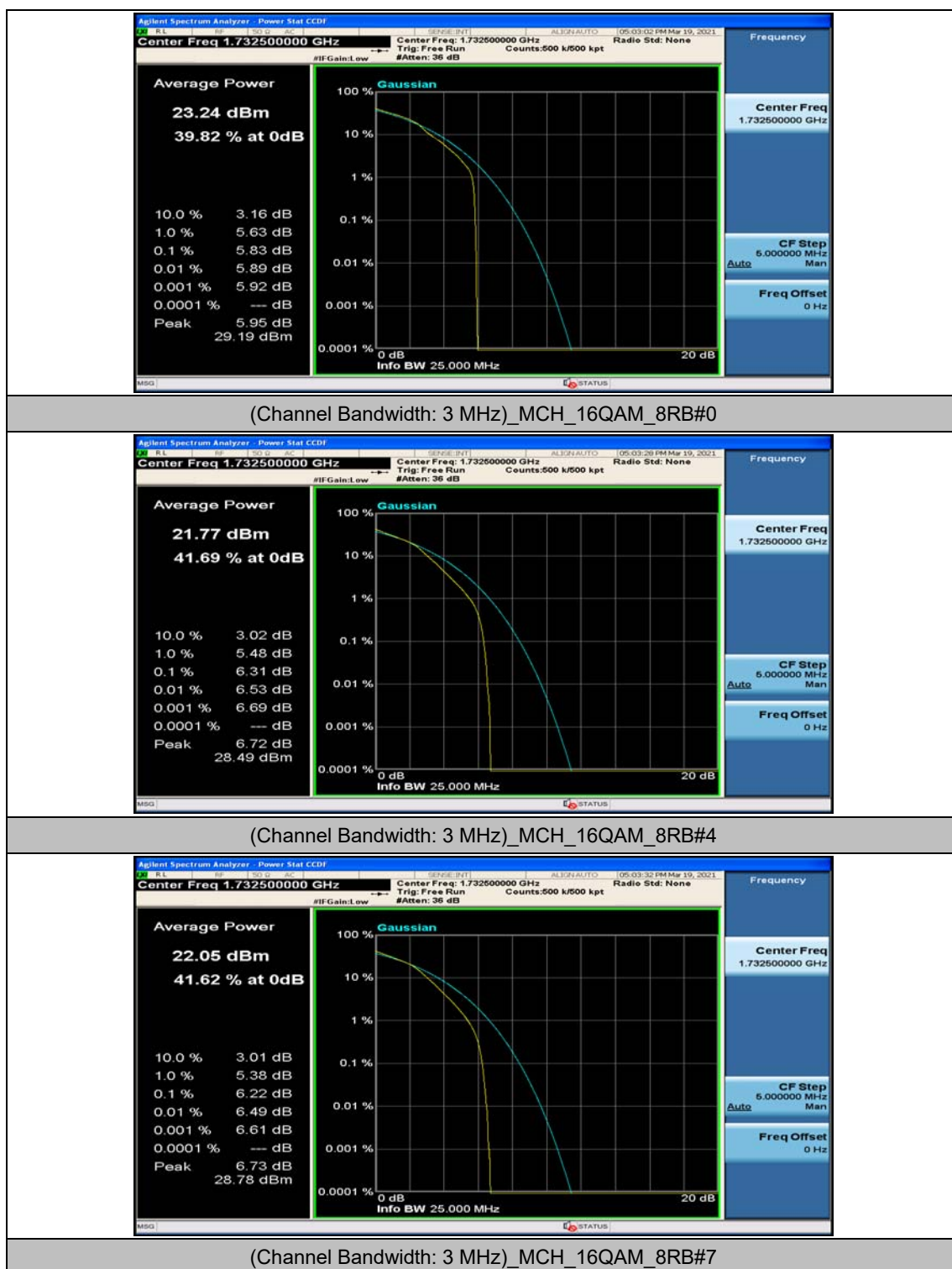
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0

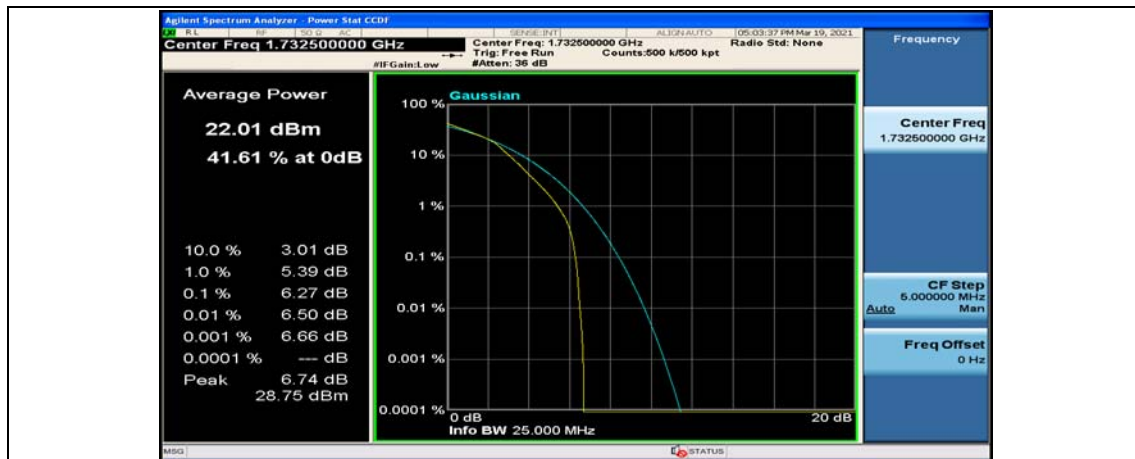


(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#7



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





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



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



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



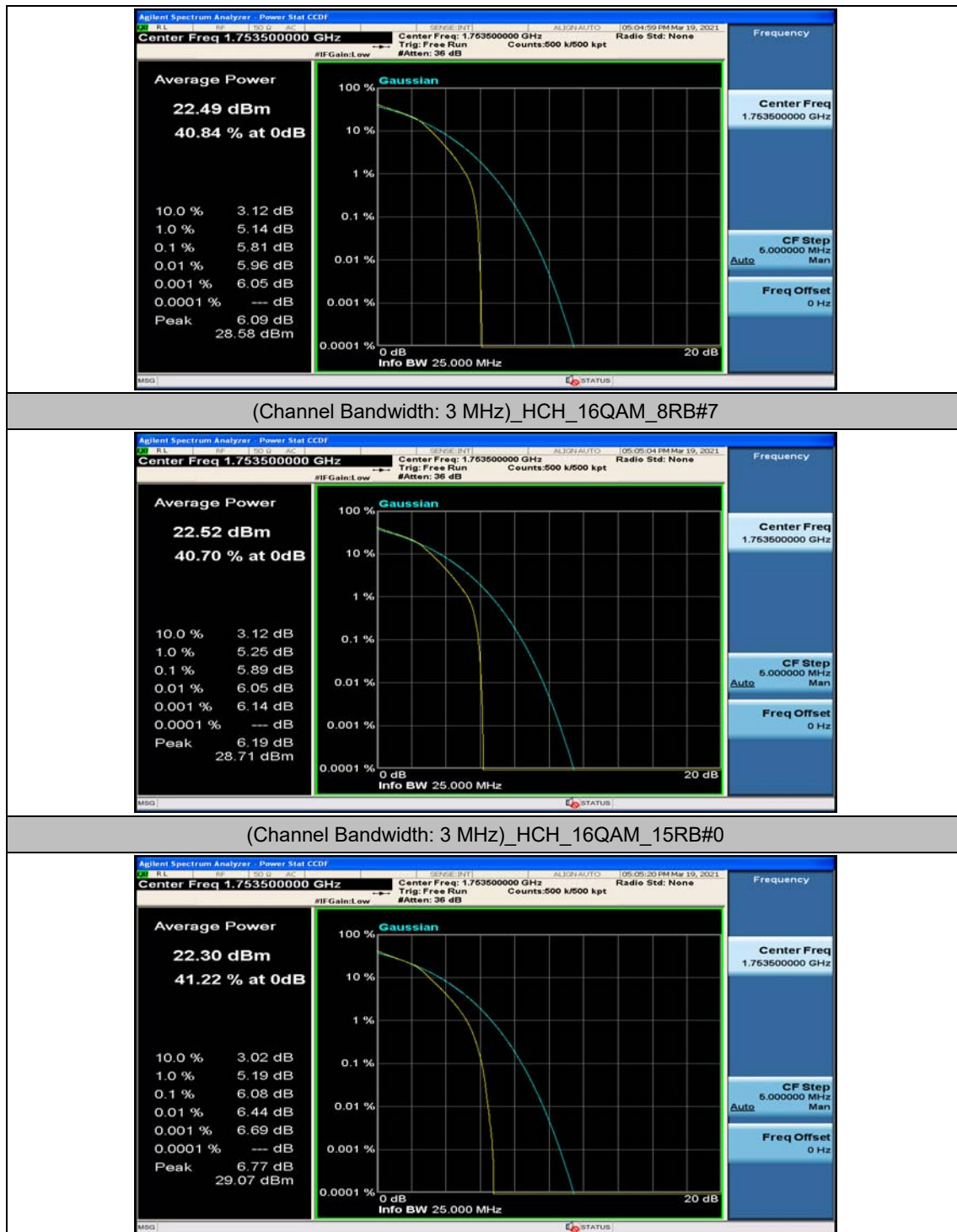
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#14



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



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



**Channel Bandwidth: 5 MHz**

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



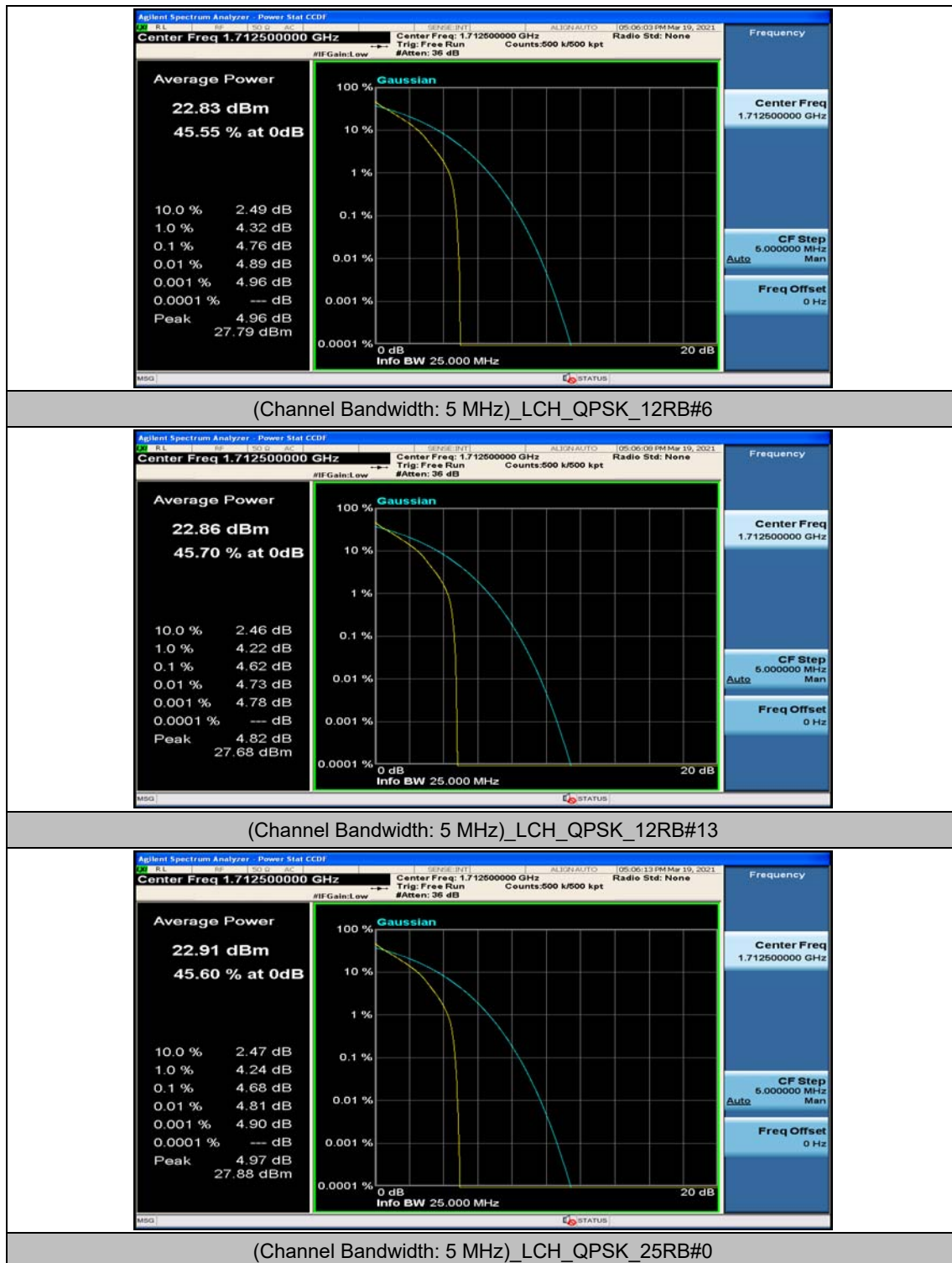
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12

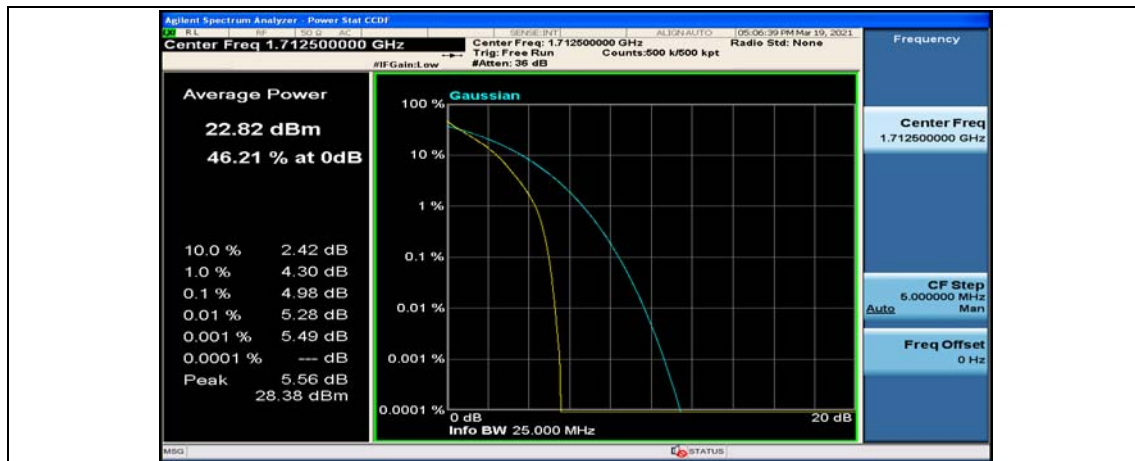


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



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





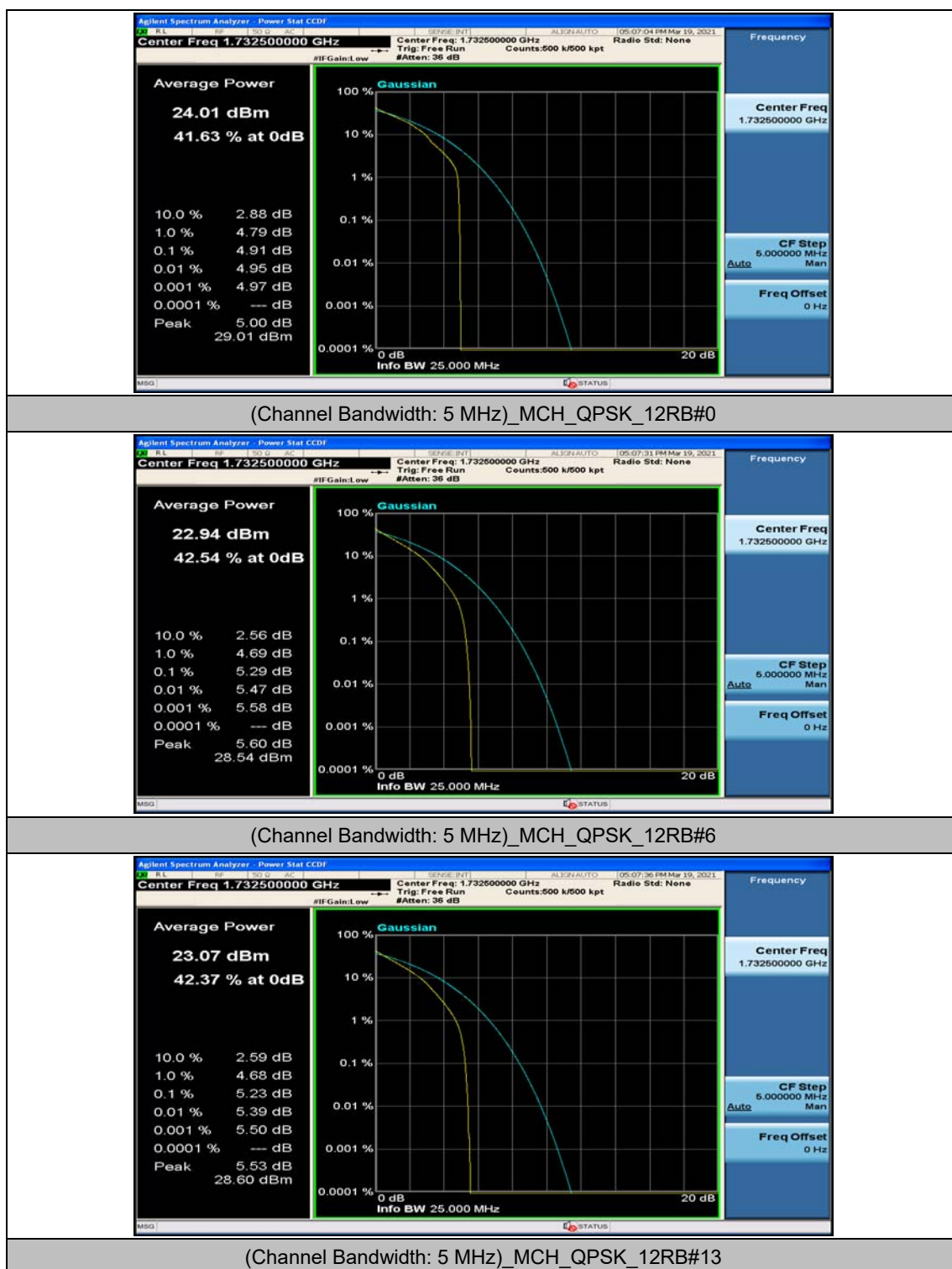
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

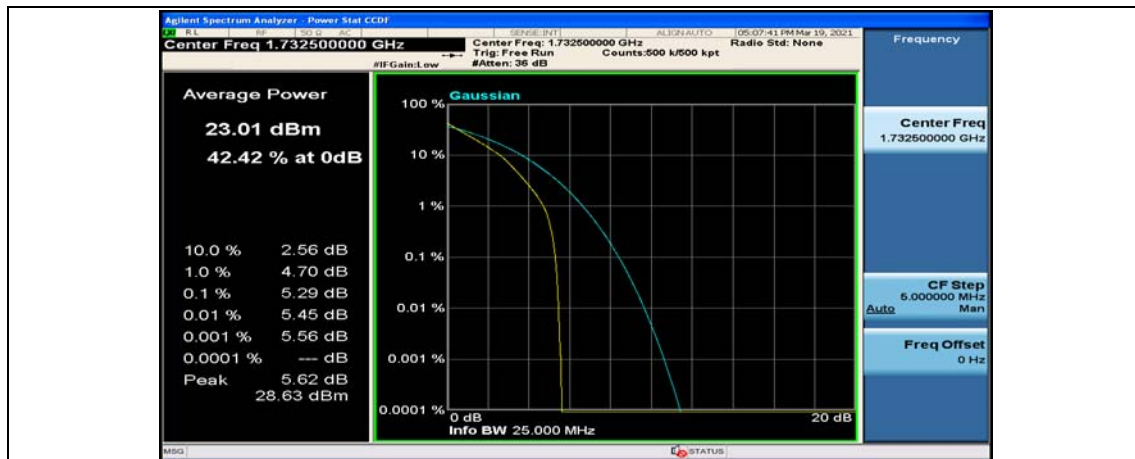


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12

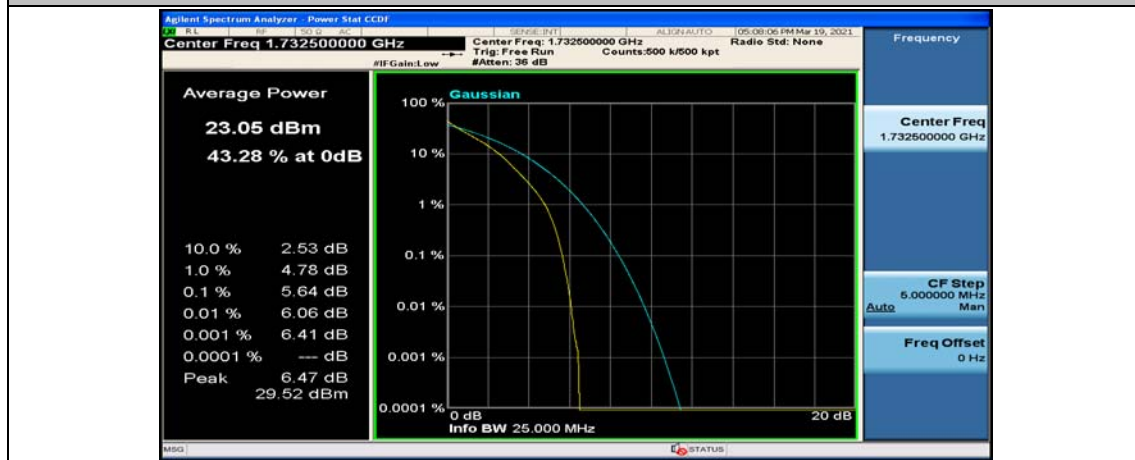


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24

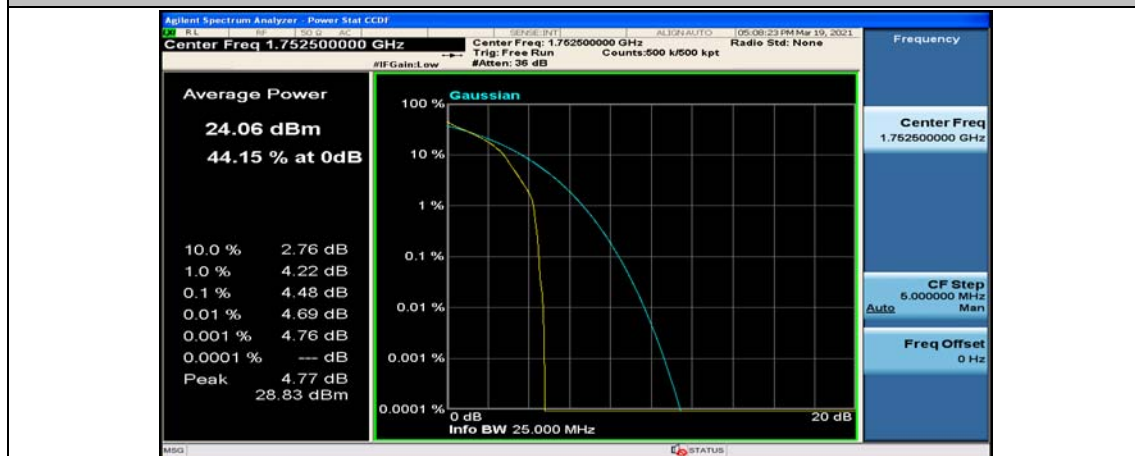




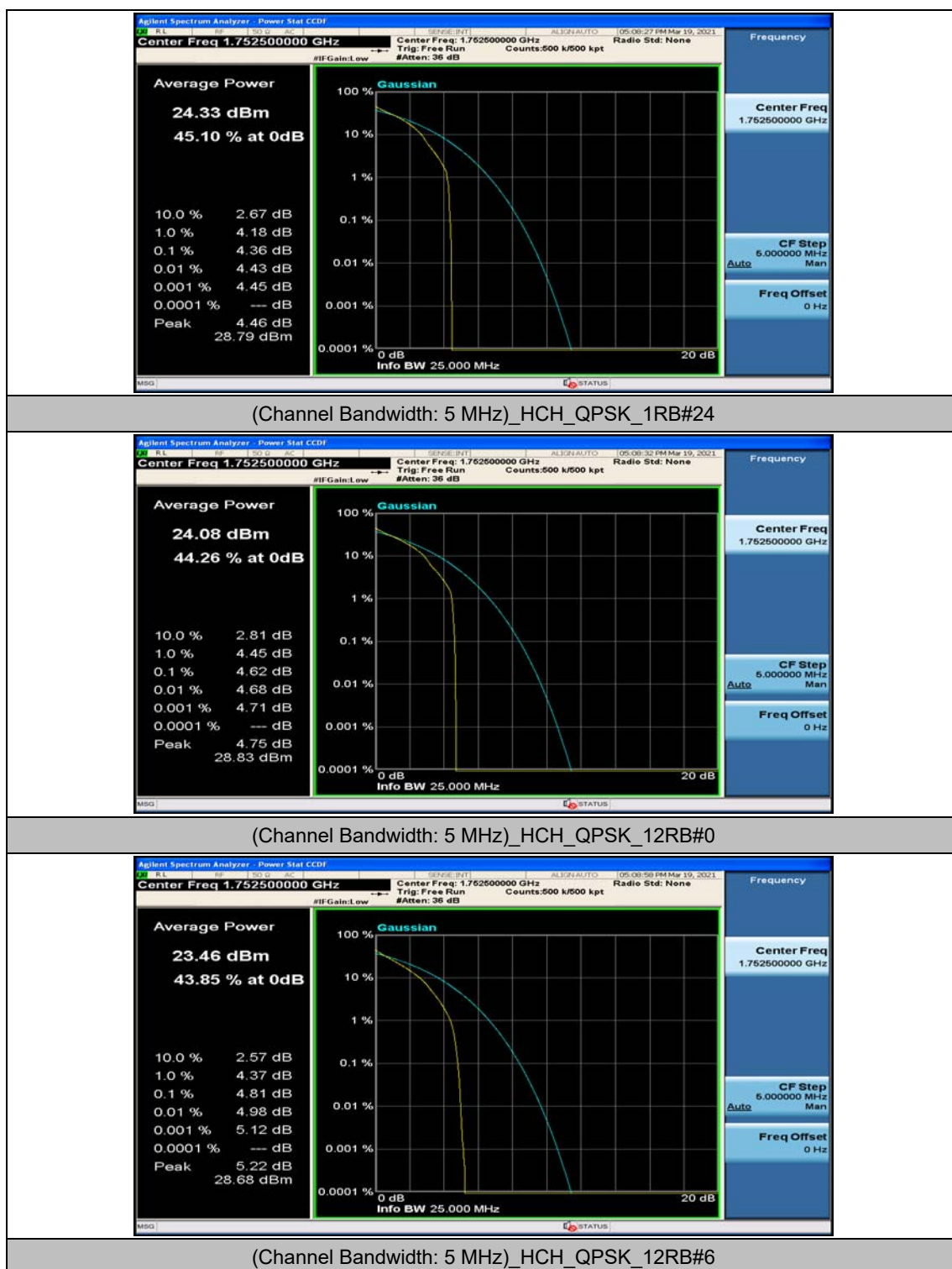
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0

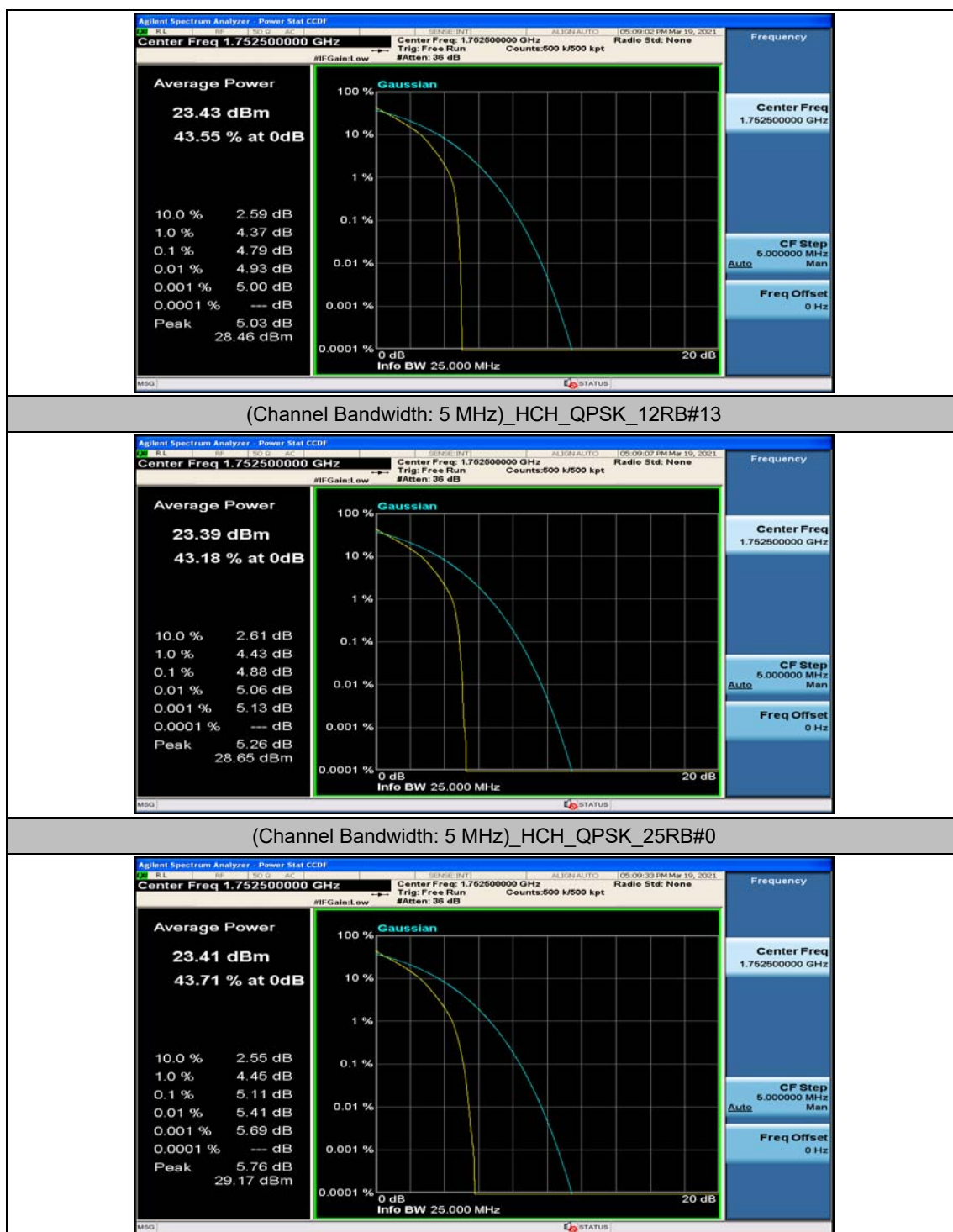


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

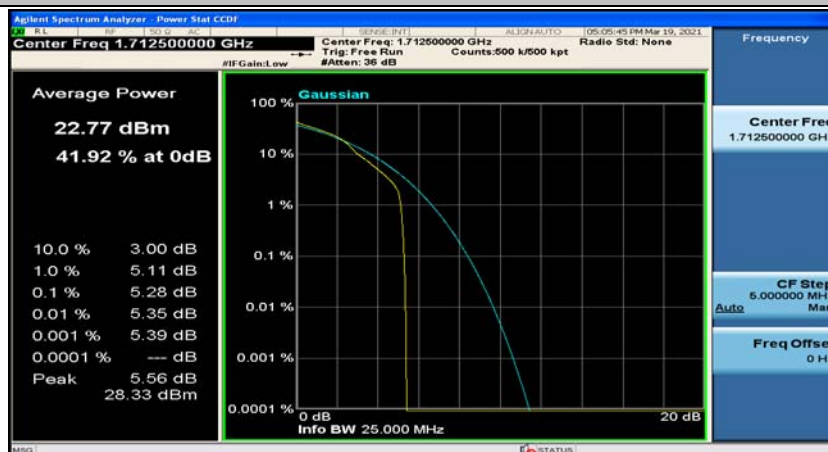


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12





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



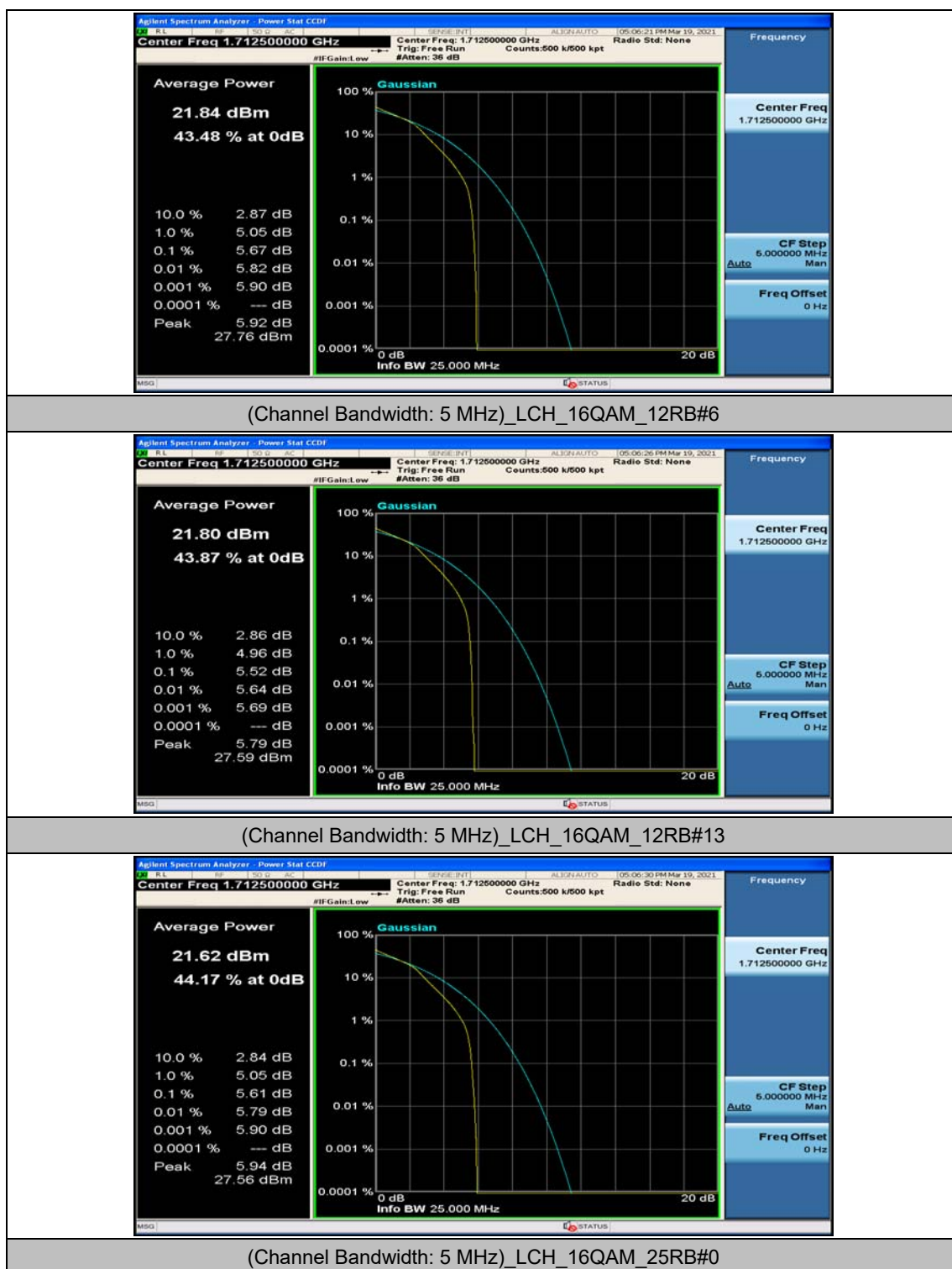
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12

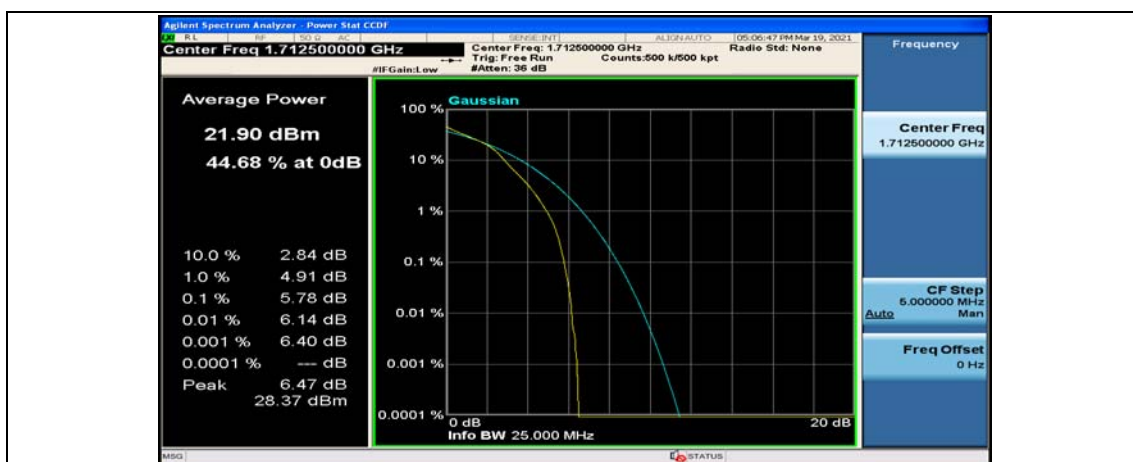


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



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

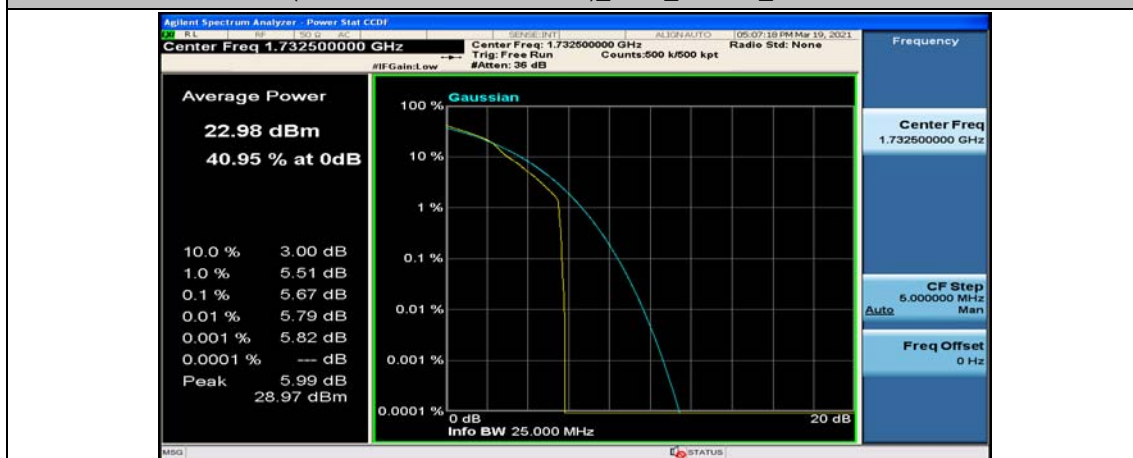




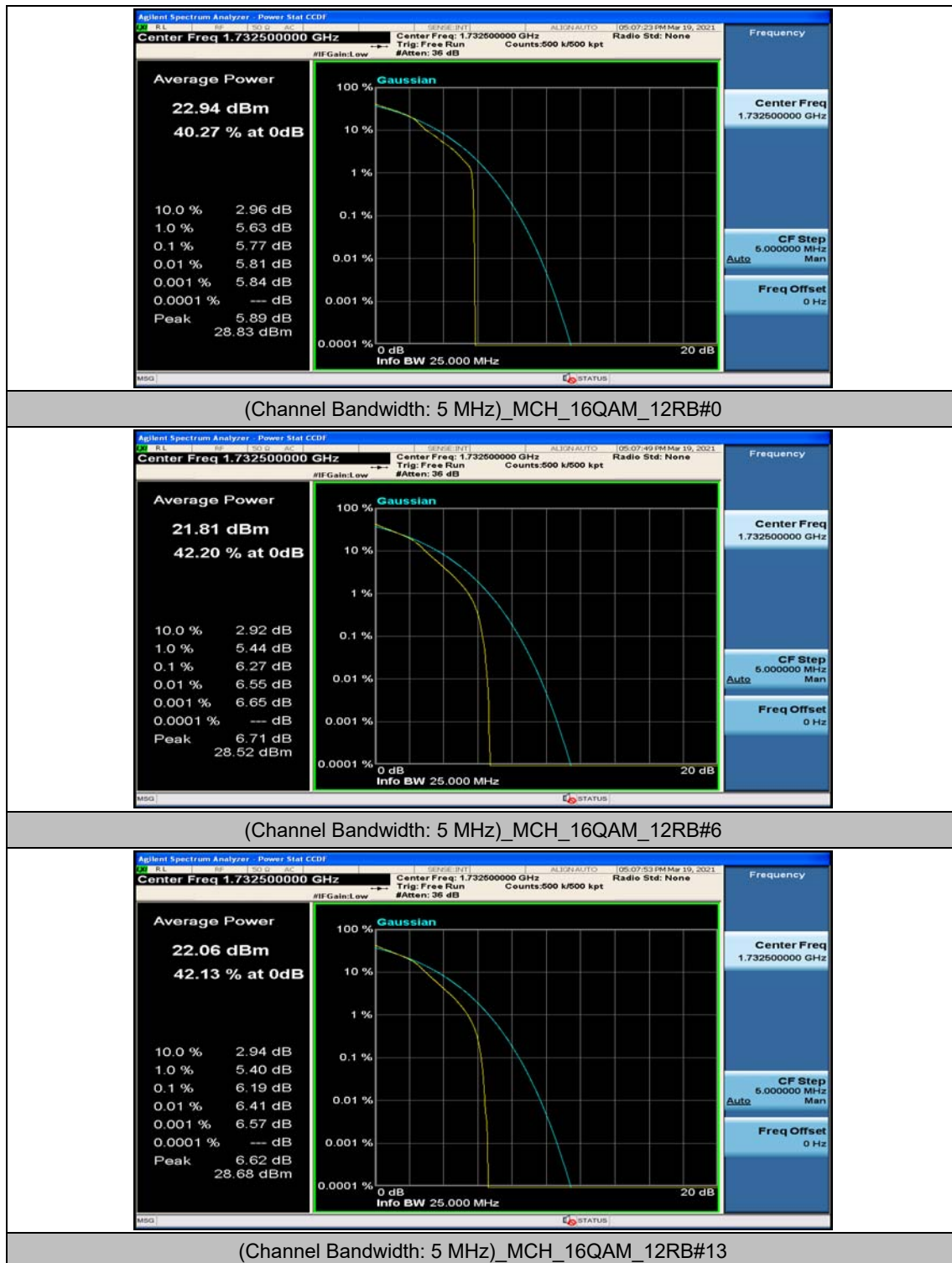
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

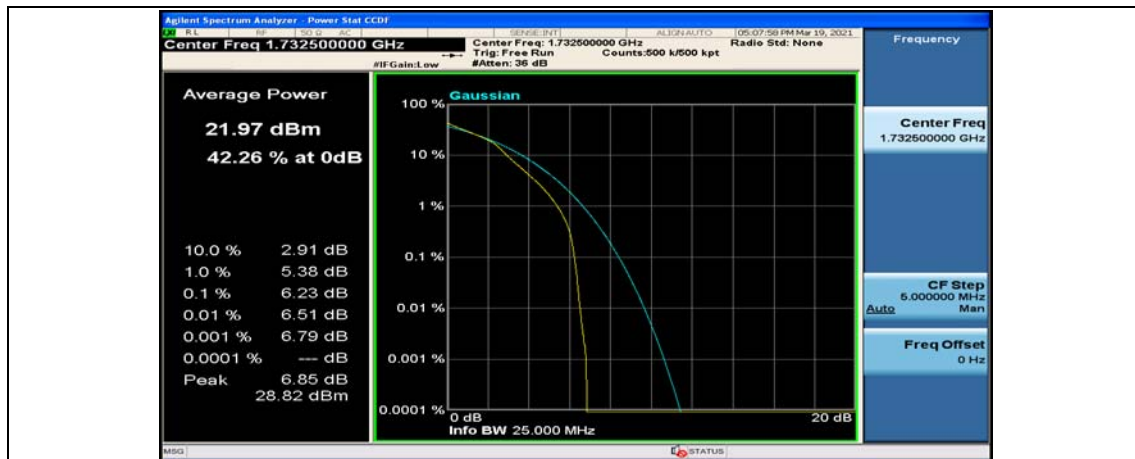


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12

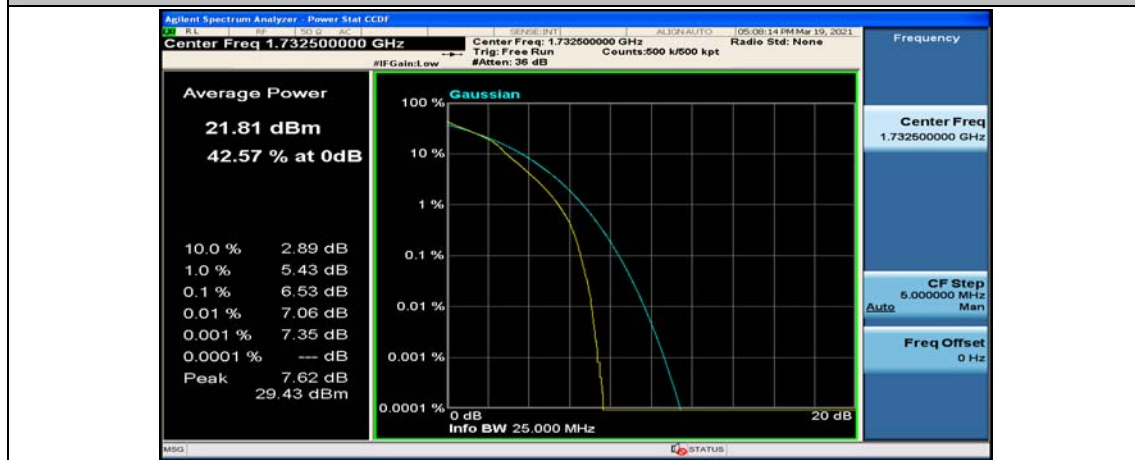


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#24

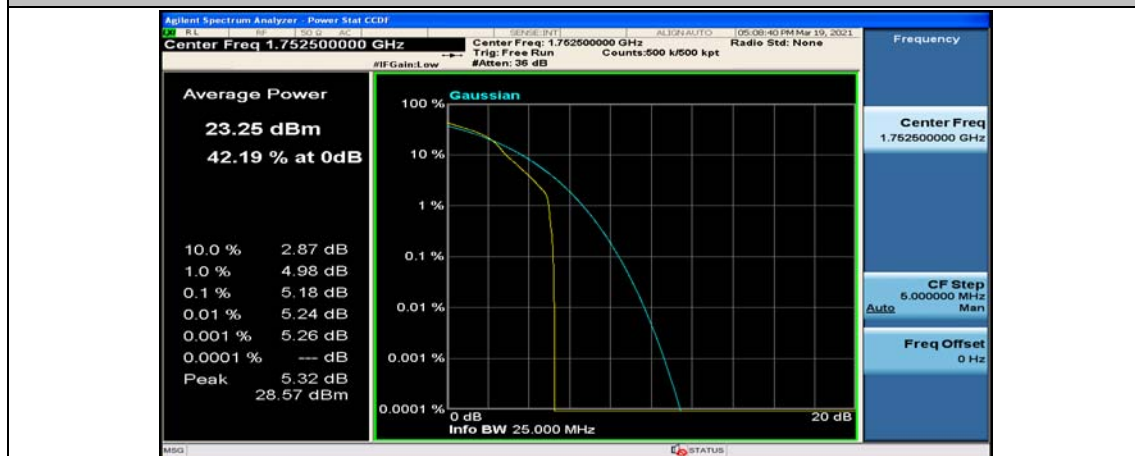




(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



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



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

