

Appendix for Band 7

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 5 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 22.34 | PASS |
| | | 1 | 12 | 21.89 | PASS |
| | | 1 | 24 | 22.33 | PASS |
| | | 12 | 0 | 23.57 | PASS |
| | | 12 | 6 | 22.42 | PASS |
| | | 12 | 13 | 22.86 | PASS |
| | | 25 | 0 | 23.17 | PASS |
| | MCH | 1 | 0 | 22.62 | PASS |
| | | 1 | 12 | 23.04 | PASS |
| | | 1 | 24 | 23.87 | PASS |
| | | 12 | 0 | 22.09 | PASS |
| | | 12 | 6 | 23.21 | PASS |
| | | 12 | 13 | 22.11 | PASS |
| | | 25 | 0 | 22.59 | PASS |
| 16QAM | HCH | 1 | 0 | 23.02 | PASS |
| | | 1 | 12 | 21.81 | PASS |
| | | 1 | 24 | 21.69 | PASS |
| | | 12 | 0 | 23.56 | PASS |
| | | 12 | 6 | 22.49 | PASS |
| | | 12 | 13 | 22.11 | PASS |
| | | 25 | 0 | 22.45 | PASS |
| | LCH | 1 | 0 | 23.04 | PASS |
| | | 1 | 12 | 22.28 | PASS |
| | | 1 | 24 | 23.45 | PASS |
| | | 12 | 0 | 23.23 | PASS |
| | | 12 | 6 | 22.88 | PASS |
| | | 12 | 13 | 22.59 | PASS |
| | | 25 | 0 | 22.21 | PASS |
| | MCH | 1 | 0 | 22.83 | PASS |
| | | 1 | 12 | 21.99 | PASS |
| | | 1 | 24 | 22.34 | PASS |
| | | 12 | 0 | 22.13 | PASS |
| | | 12 | 6 | 22.46 | PASS |

| | | | | | |
|-----|-----|----|----|-------|------|
| | | 12 | 13 | 22.81 | PASS |
| | | 25 | 0 | 22.05 | PASS |
| HCH | HCH | 1 | 0 | 22.19 | PASS |
| | | 1 | 12 | 22.76 | PASS |
| | | 1 | 24 | 23.25 | PASS |
| | | 12 | 0 | 22.81 | PASS |
| | | 12 | 6 | 23.27 | PASS |
| | | 12 | 13 | 22.71 | PASS |
| | | 25 | 0 | 22.42 | PASS |
| | | | | | |

Channel Bandwidth: 10 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 22.47 | PASS |
| | | 1 | 24 | 22.91 | PASS |
| | | 1 | 49 | 22.65 | PASS |
| | | 25 | 0 | 21.77 | PASS |
| | | 25 | 12 | 22.92 | PASS |
| | | 25 | 25 | 21.86 | PASS |
| | | 50 | 0 | 22.74 | PASS |
| | MCH | 1 | 0 | 22.66 | PASS |
| | | 1 | 24 | 22.06 | PASS |
| | | 1 | 49 | 22.91 | PASS |
| | | 25 | 0 | 23.43 | PASS |
| | | 25 | 12 | 22.71 | PASS |
| | | 25 | 25 | 21.89 | PASS |
| | | 50 | 0 | 22.07 | PASS |
| | HCH | 1 | 0 | 23.39 | PASS |
| | | 1 | 24 | 23.29 | PASS |
| | | 1 | 49 | 23.25 | PASS |
| | | 25 | 0 | 23.48 | PASS |
| | | 25 | 12 | 21.71 | PASS |
| | | 25 | 25 | 22.81 | PASS |
| | | 50 | 0 | 21.65 | PASS |
| 16QAM | LCH | 1 | 0 | 21.59 | PASS |
| | | 1 | 24 | 23.28 | PASS |
| | | 1 | 49 | 23.41 | PASS |
| | | 25 | 0 | 23.04 | PASS |
| | | 25 | 12 | 22.08 | PASS |
| | | 25 | 25 | 22.29 | PASS |
| | | 50 | 0 | 21.43 | PASS |
| | MCH | 1 | 0 | 21.99 | PASS |

| | | | | | |
|--|-----|----|----|-------|------|
| | | 1 | 24 | 23.38 | PASS |
| | | 1 | 49 | 22.68 | PASS |
| | | 25 | 0 | 23.08 | PASS |
| | | 25 | 12 | 23.17 | PASS |
| | | 25 | 25 | 23.19 | PASS |
| | | 50 | 0 | 23.48 | PASS |
| | HCH | 1 | 0 | 22.68 | PASS |
| | | 1 | 24 | 22.18 | PASS |
| | | 1 | 49 | 22.59 | PASS |
| | | 25 | 0 | 23.05 | PASS |
| | | 25 | 12 | 21.93 | PASS |
| | | 25 | 25 | 22.63 | PASS |
| | | 50 | 0 | 23.29 | PASS |

Channel Bandwidth: 15 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 22.65 | PASS |
| | | 1 | 37 | 22.42 | PASS |
| | | 1 | 74 | 22.74 | PASS |
| | | 37 | 0 | 23.31 | PASS |
| | | 37 | 18 | 22.72 | PASS |
| | | 37 | 38 | 22.14 | PASS |
| | | 75 | 0 | 22.03 | PASS |
| | MCH | 1 | 0 | 21.81 | PASS |
| | | 1 | 37 | 21.65 | PASS |
| | | 1 | 74 | 22.98 | PASS |
| | | 37 | 0 | 22.94 | PASS |
| | | 37 | 18 | 22.21 | PASS |
| | | 37 | 38 | 22.47 | PASS |
| | | 75 | 0 | 22.77 | PASS |
| | HCH | 1 | 0 | 21.77 | PASS |
| | | 1 | 37 | 23.17 | PASS |
| | | 1 | 74 | 23.08 | PASS |
| | | 37 | 0 | 21.63 | PASS |
| | | 37 | 18 | 22.53 | PASS |
| | | 37 | 38 | 23.41 | PASS |
| | | 75 | 0 | 22.75 | PASS |
| 16QAM | LCH | 1 | 0 | 23.14 | PASS |
| | | 1 | 37 | 22.16 | PASS |
| | | 1 | 74 | 21.75 | PASS |
| | | 37 | 0 | 21.31 | PASS |

| | | | | | |
|-----|--|----|----|-------|------|
| | | 37 | 18 | 22.75 | PASS |
| | | 37 | 38 | 22.46 | PASS |
| | | 75 | 0 | 21.87 | PASS |
| MCH | | 1 | 0 | 21.96 | PASS |
| | | 1 | 37 | 22.35 | PASS |
| | | 1 | 74 | 23.15 | PASS |
| | | 37 | 0 | 21.68 | PASS |
| | | 37 | 18 | 22.65 | PASS |
| | | 37 | 38 | 23.12 | PASS |
| | | 75 | 0 | 22.05 | PASS |
| | | 1 | 0 | 21.55 | PASS |
| HCH | | 1 | 37 | 22.85 | PASS |
| | | 1 | 74 | 22.29 | PASS |
| | | 37 | 0 | 21.96 | PASS |
| | | 37 | 18 | 21.82 | PASS |
| | | 37 | 38 | 23.17 | PASS |
| | | 75 | 0 | 23.54 | PASS |

Channel Bandwidth: 20 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 21.67 | PASS |
| | | 1 | 49 | 21.42 | PASS |
| | | 1 | 99 | 22.42 | PASS |
| | | 50 | 0 | 21.49 | PASS |
| | | 50 | 25 | 22.41 | PASS |
| | | 50 | 50 | 21.67 | PASS |
| | | 100 | 0 | 23.15 | PASS |
| | MCH | 1 | 0 | 22.43 | PASS |
| | | 1 | 49 | 22.23 | PASS |
| | | 1 | 99 | 22.01 | PASS |
| | | 50 | 0 | 23.49 | PASS |
| | | 50 | 25 | 22.17 | PASS |
| | | 50 | 50 | 22.38 | PASS |
| | | 100 | 0 | 23.31 | PASS |
| | HCH | 1 | 0 | 21.92 | PASS |
| | | 1 | 49 | 23.06 | PASS |
| | | 1 | 99 | 22.09 | PASS |
| | | 50 | 0 | 23.01 | PASS |
| | | 50 | 25 | 22.76 | PASS |
| | | 50 | 50 | 23.21 | PASS |
| | | 100 | 0 | 22.15 | PASS |

| | | | | | |
|-------|-----|-----|----|-------|------|
| 16QAM | LCH | 1 | 0 | 22.1 | PASS |
| | | 1 | 49 | 22.94 | PASS |
| | | 1 | 99 | 22.36 | PASS |
| | | 50 | 0 | 21.75 | PASS |
| | | 50 | 25 | 22.67 | PASS |
| | | 50 | 50 | 22.66 | PASS |
| | | 100 | 0 | 23.21 | PASS |
| | MCH | 1 | 0 | 23.38 | PASS |
| | | 1 | 49 | 23.52 | PASS |
| | | 1 | 99 | 22.28 | PASS |
| | | 50 | 0 | 23.38 | PASS |
| | | 50 | 25 | 23.26 | PASS |
| | | 50 | 50 | 23.13 | PASS |
| | | 100 | 0 | 23.42 | PASS |
| | HCH | 1 | 0 | 21.89 | PASS |
| | | 1 | 49 | 23.25 | PASS |
| | | 1 | 99 | 22.47 | PASS |
| | | 50 | 0 | 23.01 | PASS |
| | | 50 | 25 | 22.04 | PASS |
| | | 50 | 50 | 23.24 | PASS |
| | | 100 | 0 | 22.87 | PASS |

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | |
|--------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.59 | <13 | PASS |
| | | 1 | 12 | 4.59 | <13 | PASS |
| | | 1 | 24 | 4.62 | <13 | PASS |
| | | 12 | 0 | 5.37 | <13 | PASS |
| | | 12 | 6 | 5.25 | <13 | PASS |
| | | 12 | 13 | 5.41 | <13 | PASS |
| | | 25 | 0 | 5.34 | <13 | PASS |
| | MCH | 1 | 0 | 4.2 | <13 | PASS |
| | | 1 | 12 | 4.07 | <13 | PASS |
| | | 1 | 24 | 3.81 | <13 | PASS |
| | | 12 | 0 | 5.04 | <13 | PASS |
| | | 12 | 6 | 5.04 | <13 | PASS |
| | | 12 | 13 | 4.9 | <13 | PASS |
| | | 25 | 0 | 5.05 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 3.88 | <13 | PASS |
| | | 1 | 12 | 4.65 | <13 | PASS |
| | | 1 | 24 | 4.83 | <13 | PASS |
| | | 12 | 0 | 5.06 | <13 | PASS |
| | | 12 | 6 | 5.2 | <13 | PASS |
| | | 12 | 13 | 5.27 | <13 | PASS |
| | | 25 | 0 | 5.19 | <13 | PASS |
| | MCH | 1 | 0 | 5.37 | <13 | PASS |
| | | 1 | 12 | 5.5 | <13 | PASS |
| | | 1 | 24 | 5.53 | <13 | PASS |
| | | 12 | 0 | 6.13 | <13 | PASS |
| | | 12 | 6 | 6.16 | <13 | PASS |
| | | 12 | 13 | 6.15 | <13 | PASS |
| | | 25 | 0 | 6.12 | <13 | PASS |

| | | | | | | |
|-----|----|----|------|------|------|------|
| | | 12 | 13 | 5.78 | <13 | PASS |
| | | 25 | 0 | 5.84 | <13 | PASS |
| HCH | 1 | 0 | 4.67 | <13 | PASS | |
| | 1 | 12 | 5.14 | <13 | PASS | |
| | 1 | 24 | 5.39 | <13 | PASS | |
| | 12 | 0 | 5.91 | <13 | PASS | |
| | 12 | 6 | 6.02 | <13 | PASS | |
| | 12 | 13 | 6.12 | <13 | PASS | |
| | 25 | 0 | 5.94 | <13 | PASS | |
| | | | | | | |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.63 | <13 | PASS |
| | | 1 | 24 | 4.63 | <13 | PASS |
| | | 1 | 49 | 4.47 | <13 | PASS |
| | | 25 | 0 | 5.31 | <13 | PASS |
| | | 25 | 12 | 5.32 | <13 | PASS |
| | | 25 | 25 | 5.22 | <13 | PASS |
| | | 50 | 0 | 5.25 | <13 | PASS |
| | MCH | 1 | 0 | 4.83 | <13 | PASS |
| | | 1 | 24 | 4.3 | <13 | PASS |
| | | 1 | 49 | 4.29 | <13 | PASS |
| | | 25 | 0 | 5.17 | <13 | PASS |
| | | 25 | 12 | 5.09 | <13 | PASS |
| | | 25 | 25 | 5.01 | <13 | PASS |
| | | 50 | 0 | 5.08 | <13 | PASS |
| | HCH | 1 | 0 | 4.12 | <13 | PASS |
| | | 1 | 24 | 4.16 | <13 | PASS |
| | | 1 | 49 | 4.85 | <13 | PASS |
| | | 25 | 0 | 4.92 | <13 | PASS |
| | | 25 | 12 | 5.02 | <13 | PASS |
| | | 25 | 25 | 5.18 | <13 | PASS |
| | | 50 | 0 | 5.1 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 5.54 | <13 | PASS |
| | | 1 | 24 | 5.45 | <13 | PASS |
| | | 1 | 49 | 5.37 | <13 | PASS |
| | | 25 | 0 | 6.09 | <13 | PASS |
| | | 25 | 12 | 6.12 | <13 | PASS |
| | | 25 | 25 | 6.02 | <13 | PASS |

| | | | | | | |
|-----|----|----|---|------|-----|------|
| | | 50 | 0 | 5.98 | <13 | PASS |
| MCH | 1 | 0 | | 5.68 | <13 | PASS |
| | 1 | 24 | | 5.14 | <13 | PASS |
| | 1 | 49 | | 5.12 | <13 | PASS |
| | 25 | 0 | | 5.98 | <13 | PASS |
| | 25 | 12 | | 5.86 | <13 | PASS |
| | 25 | 25 | | 5.76 | <13 | PASS |
| | 50 | 0 | | 5.81 | <13 | PASS |
| HCH | 1 | 0 | | 5.01 | <13 | PASS |
| | 1 | 24 | | 4.98 | <13 | PASS |
| | 1 | 49 | | 5.72 | <13 | PASS |
| | 25 | 0 | | 5.77 | <13 | PASS |
| | 25 | 12 | | 5.75 | <13 | PASS |
| | 25 | 25 | | 5.87 | <13 | PASS |
| | 50 | 0 | | 5.84 | <13 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.64 | <13 | PASS |
| | | 1 | 37 | 4.52 | <13 | PASS |
| | | 1 | 74 | 4.38 | <13 | PASS |
| | | 37 | 0 | 5.22 | <13 | PASS |
| | | 37 | 18 | 5.18 | <13 | PASS |
| | | 37 | 38 | 5.12 | <13 | PASS |
| | | 75 | 0 | 5.47 | <13 | PASS |
| QPSK | MCH | 1 | 0 | 4.99 | <13 | PASS |
| | | 1 | 37 | 4.34 | <13 | PASS |
| | | 1 | 74 | 4.39 | <13 | PASS |
| | | 37 | 0 | 5.25 | <13 | PASS |
| | | 37 | 18 | 5.09 | <13 | PASS |
| | | 37 | 38 | 5 | <13 | PASS |
| | | 75 | 0 | 5.42 | <13 | PASS |
| QPSK | HCH | 1 | 0 | 5.04 | <13 | PASS |
| | | 1 | 37 | 4.27 | <13 | PASS |
| | | 1 | 74 | 4.97 | <13 | PASS |
| | | 37 | 0 | 5.24 | <13 | PASS |
| | | 37 | 18 | 5.03 | <13 | PASS |
| | | 37 | 38 | 5.07 | <13 | PASS |
| | | 75 | 0 | 5.43 | <13 | PASS |

| | | | | | | |
|-------|-----|----|----|------|-----|------|
| 16QAM | LCH | 1 | 0 | 5.55 | <13 | PASS |
| | | 1 | 37 | 5.42 | <13 | PASS |
| | | 1 | 74 | 5.33 | <13 | PASS |
| | | 37 | 0 | 6.05 | <13 | PASS |
| | | 37 | 18 | 6.04 | <13 | PASS |
| | | 37 | 38 | 5.91 | <13 | PASS |
| | | 75 | 0 | 6.08 | <13 | PASS |
| | MCH | 1 | 0 | 5.87 | <13 | PASS |
| | | 1 | 37 | 5.05 | <13 | PASS |
| | | 1 | 74 | 5.22 | <13 | PASS |
| | | 37 | 0 | 6.07 | <13 | PASS |
| | | 37 | 18 | 5.84 | <13 | PASS |
| | | 37 | 38 | 5.74 | <13 | PASS |
| | | 75 | 0 | 6 | <13 | PASS |
| | HCH | 1 | 0 | 6.09 | <13 | PASS |
| | | 1 | 37 | 4.88 | <13 | PASS |
| | | 1 | 74 | 5.76 | <13 | PASS |
| | | 37 | 0 | 6.04 | <13 | PASS |
| | | 37 | 18 | 5.83 | <13 | PASS |
| | | 37 | 38 | 5.87 | <13 | PASS |
| | | 75 | 0 | 5.99 | <13 | PASS |

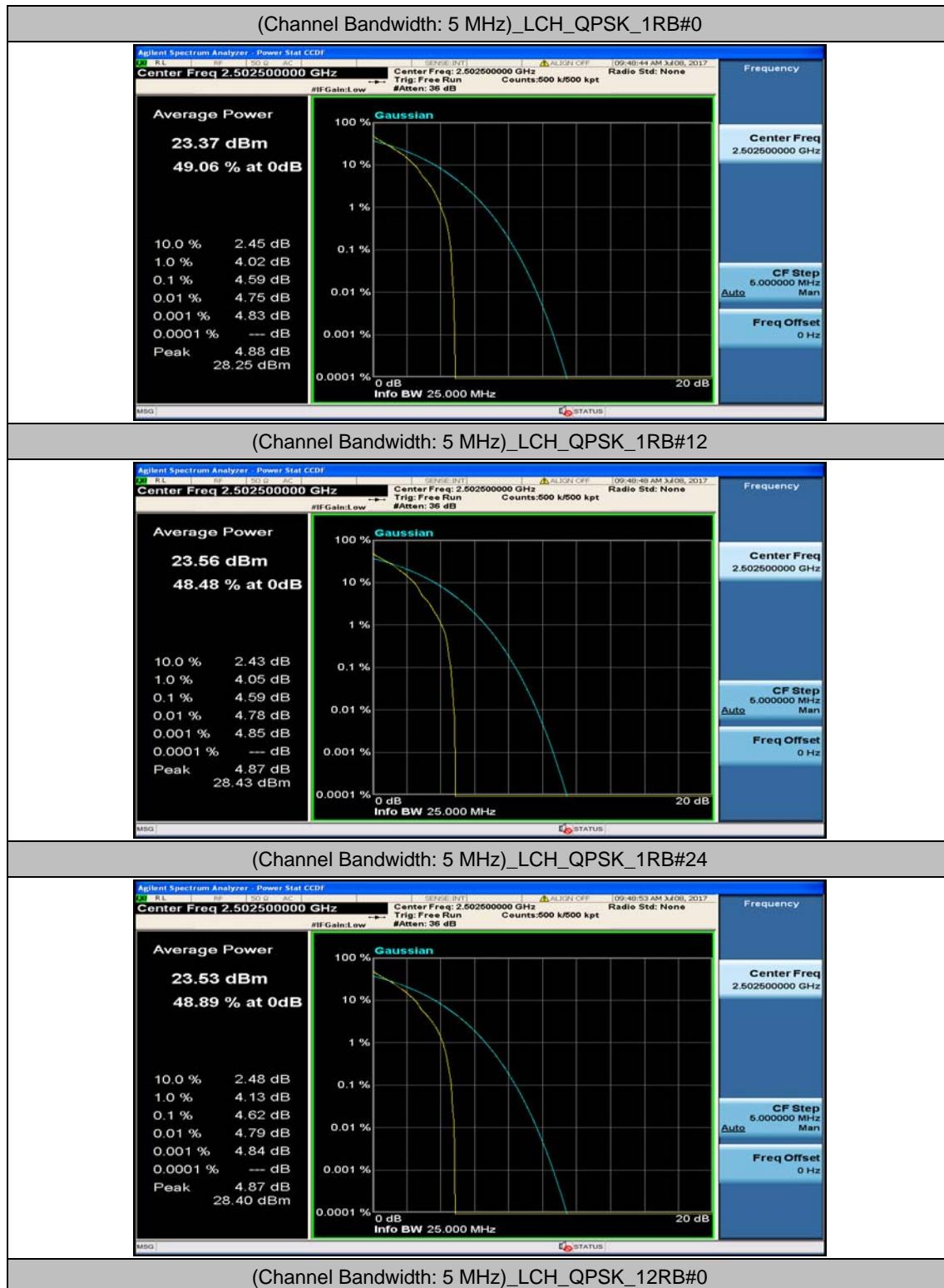
Channel Bandwidth: 20 MHz

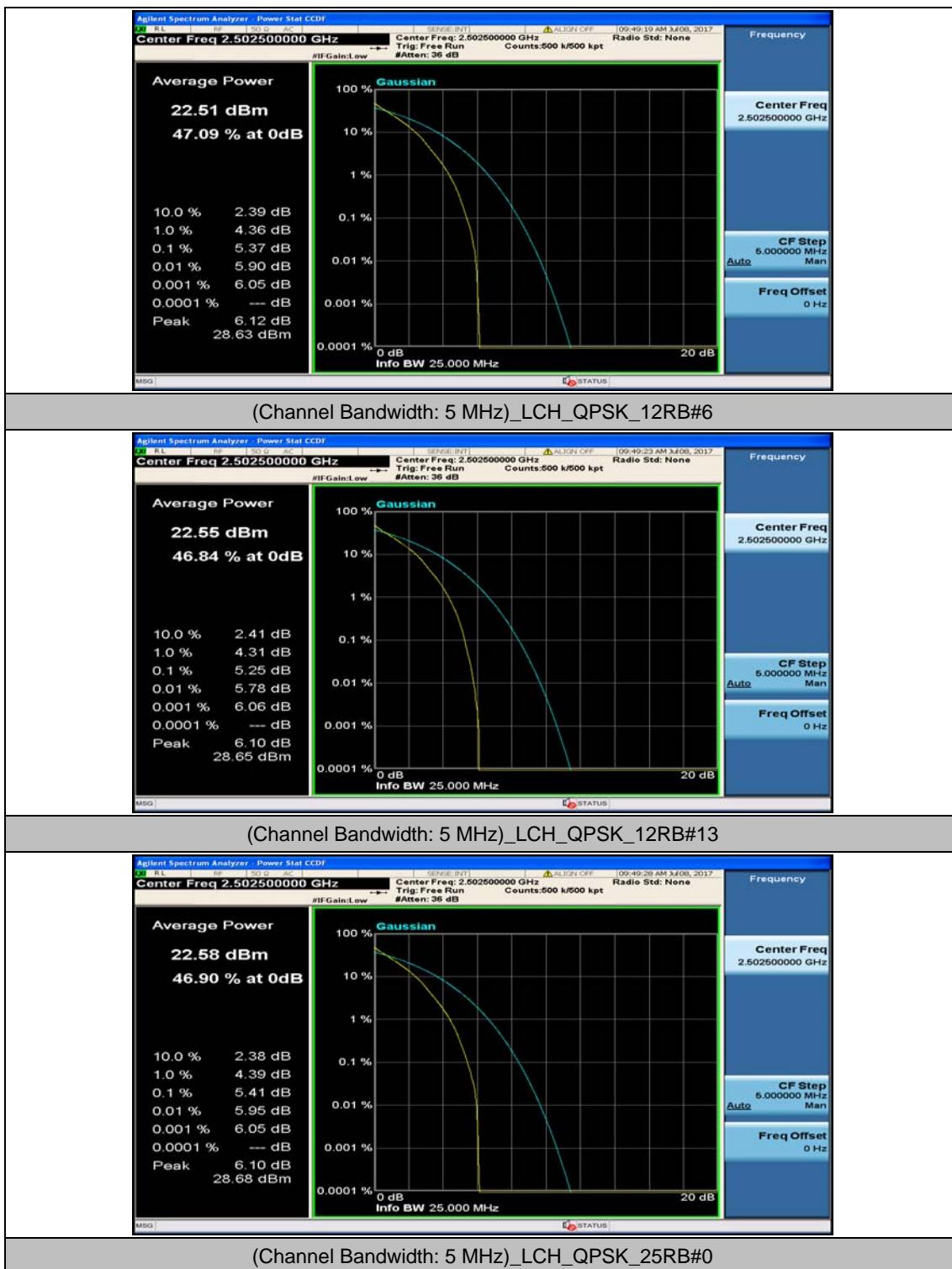
| Channel Bandwidth: 20 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.65 | <13 | PASS |
| | | 1 | 49 | 4.29 | <13 | PASS |
| | | 1 | 99 | 4.74 | <13 | PASS |
| | | 50 | 0 | 5.22 | <13 | PASS |
| | | 50 | 25 | 5.16 | <13 | PASS |
| | | 50 | 50 | 5.2 | <13 | PASS |
| | | 100 | 0 | 5.34 | <13 | PASS |
| | MCH | 1 | 0 | 4.96 | <13 | PASS |
| | | 1 | 49 | 4.27 | <13 | PASS |
| | | 1 | 99 | 4.71 | <13 | PASS |
| | | 50 | 0 | 5.32 | <13 | PASS |
| | | 50 | 25 | 5.1 | <13 | PASS |
| | | 50 | 50 | 5.11 | <13 | PASS |
| | | 100 | 0 | 5.33 | <13 | PASS |
| | HCH | 1 | 0 | 5.33 | <13 | PASS |

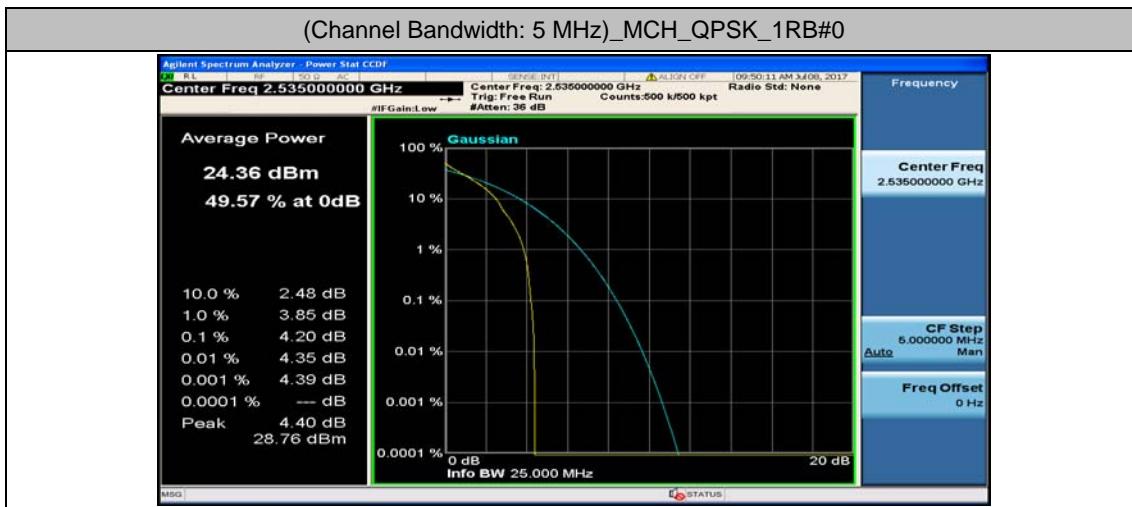
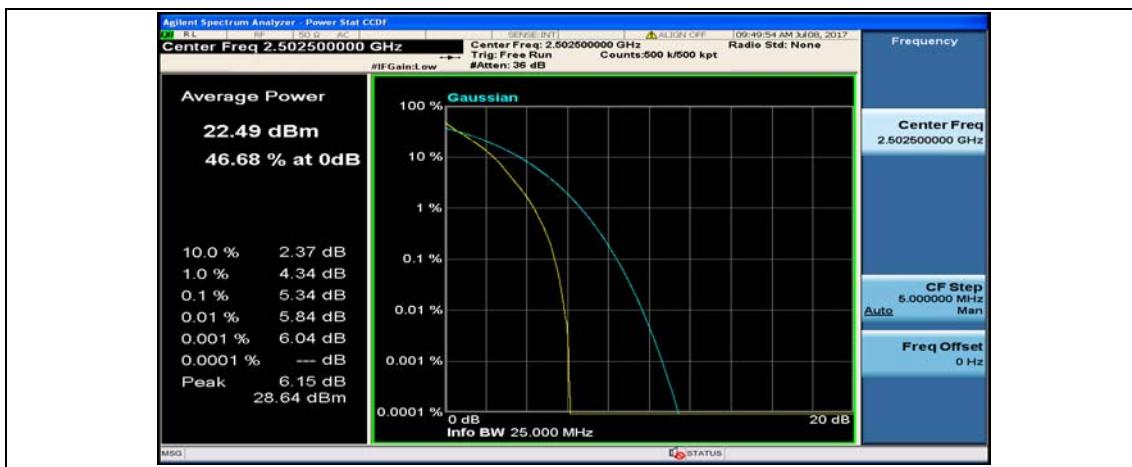
| | | | | | | |
|-------|-----|-----|----|------|-----|------|
| | | 1 | 49 | 4.44 | <13 | PASS |
| | | 1 | 99 | 4.91 | <13 | PASS |
| | | 50 | 0 | 5.46 | <13 | PASS |
| | | 50 | 25 | 5.19 | <13 | PASS |
| | | 50 | 50 | 5.15 | <13 | PASS |
| | | 100 | 0 | 5.29 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 5.42 | <13 | PASS |
| | | 1 | 49 | 5.16 | <13 | PASS |
| | | 1 | 99 | 5.69 | <13 | PASS |
| | | 50 | 0 | 5.98 | <13 | PASS |
| | | 50 | 25 | 5.97 | <13 | PASS |
| | | 50 | 50 | 5.97 | <13 | PASS |
| | | 100 | 0 | 6.06 | <13 | PASS |
| | MCH | 1 | 0 | 5.81 | <13 | PASS |
| | | 1 | 49 | 5.06 | <13 | PASS |
| | | 1 | 99 | 5.39 | <13 | PASS |
| | | 50 | 0 | 6.05 | <13 | PASS |
| | | 50 | 25 | 5.91 | <13 | PASS |
| | | 50 | 50 | 5.86 | <13 | PASS |
| | | 100 | 0 | 6.05 | <13 | PASS |
| | HCH | 1 | 0 | 5.99 | <13 | PASS |
| | | 1 | 49 | 5.16 | <13 | PASS |
| | | 1 | 99 | 5.69 | <13 | PASS |
| | | 50 | 0 | 6.19 | <13 | PASS |
| | | 50 | 25 | 5.94 | <13 | PASS |
| | | 50 | 50 | 5.85 | <13 | PASS |
| | | 100 | 0 | 6.02 | <13 | PASS |

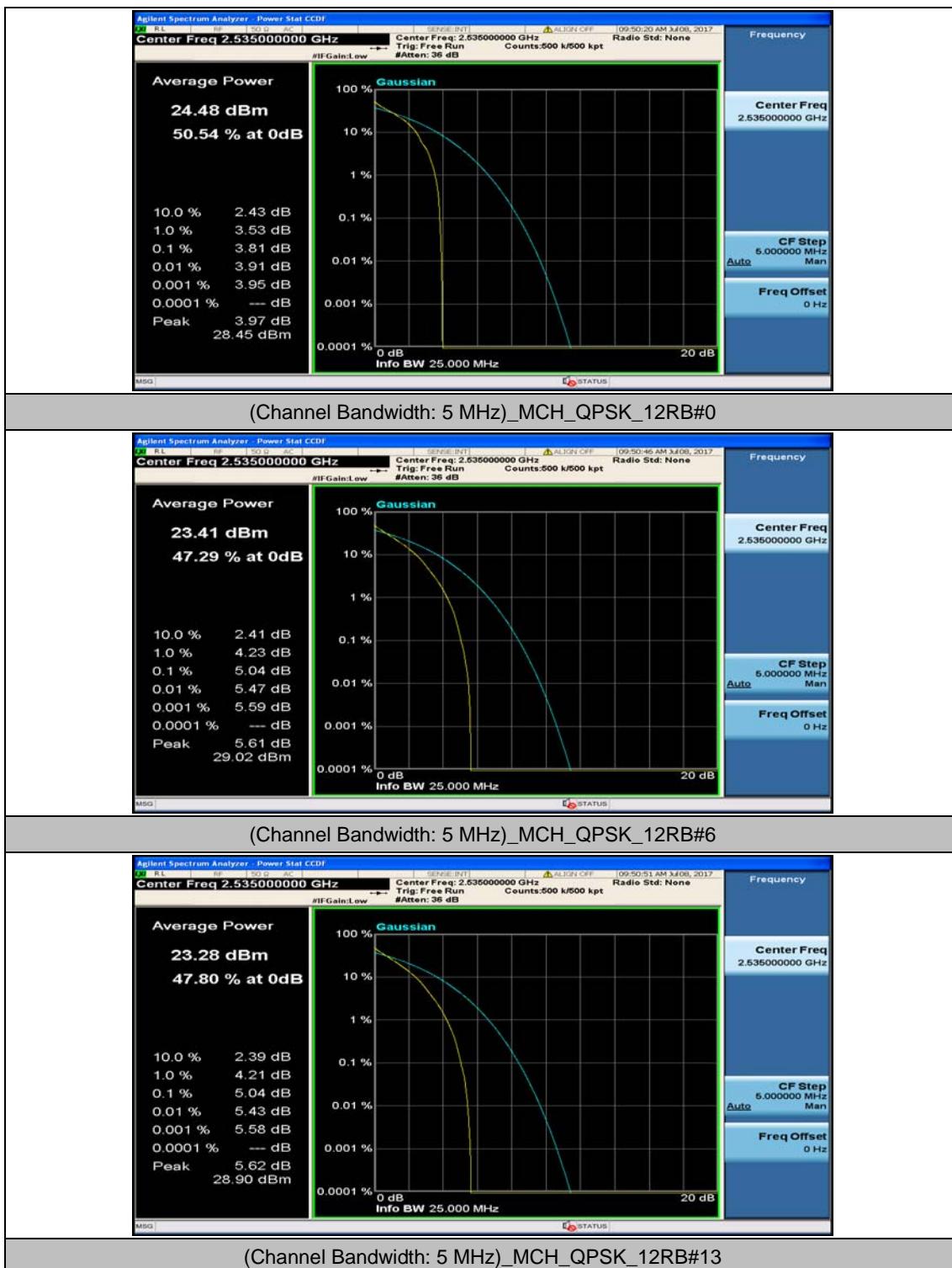
Test Graphs

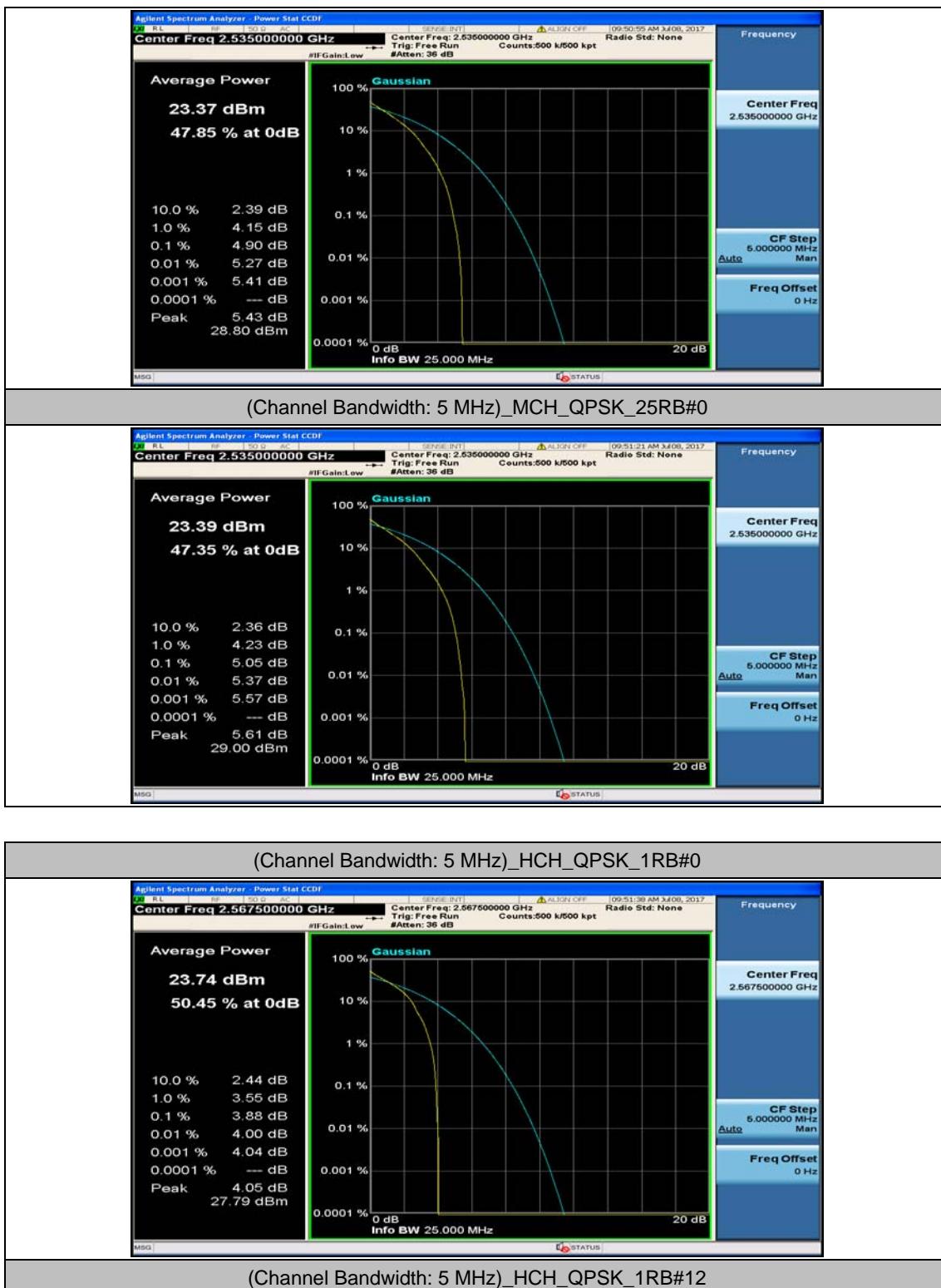
Channel Bandwidth: 5 MHz

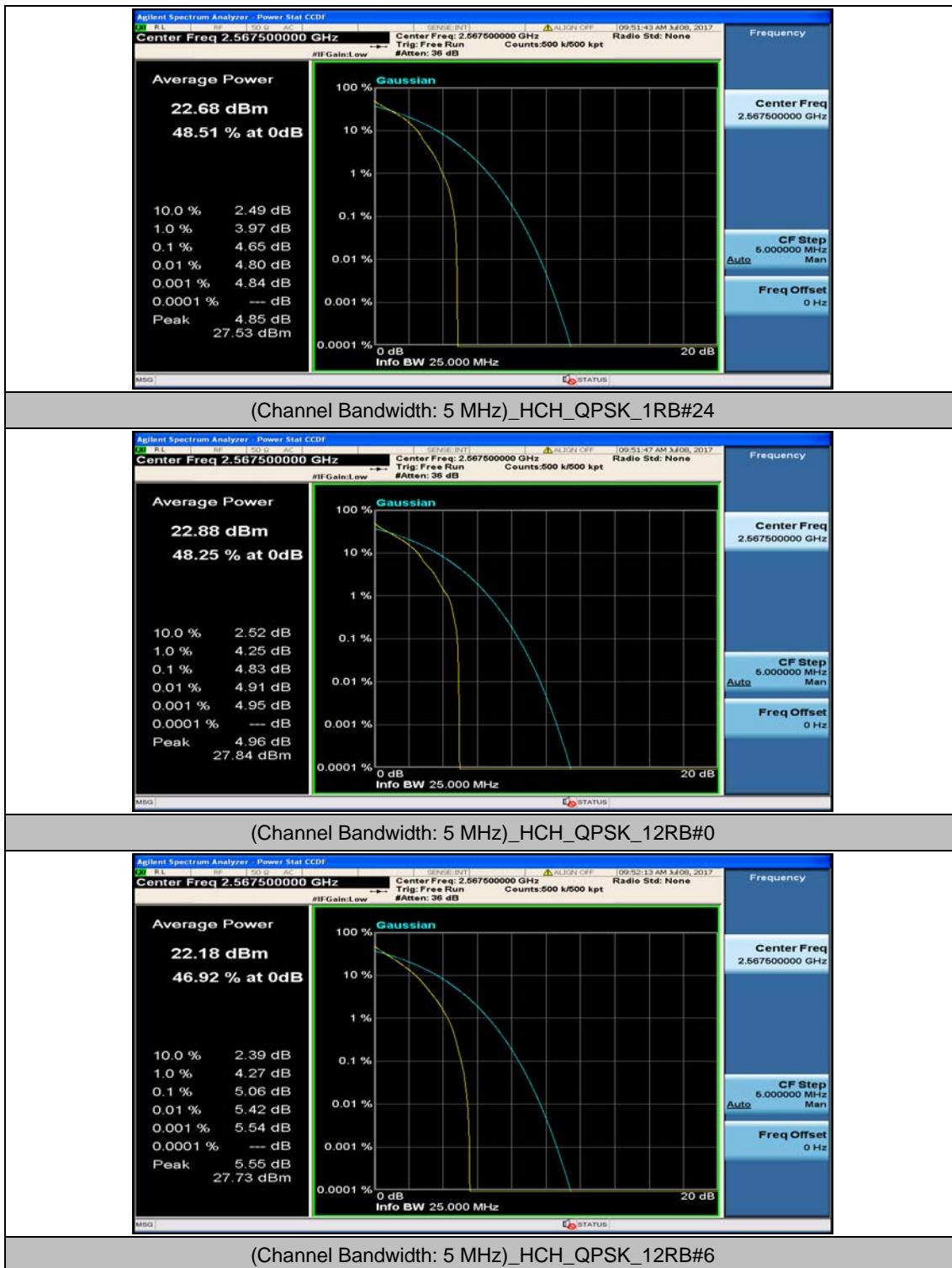


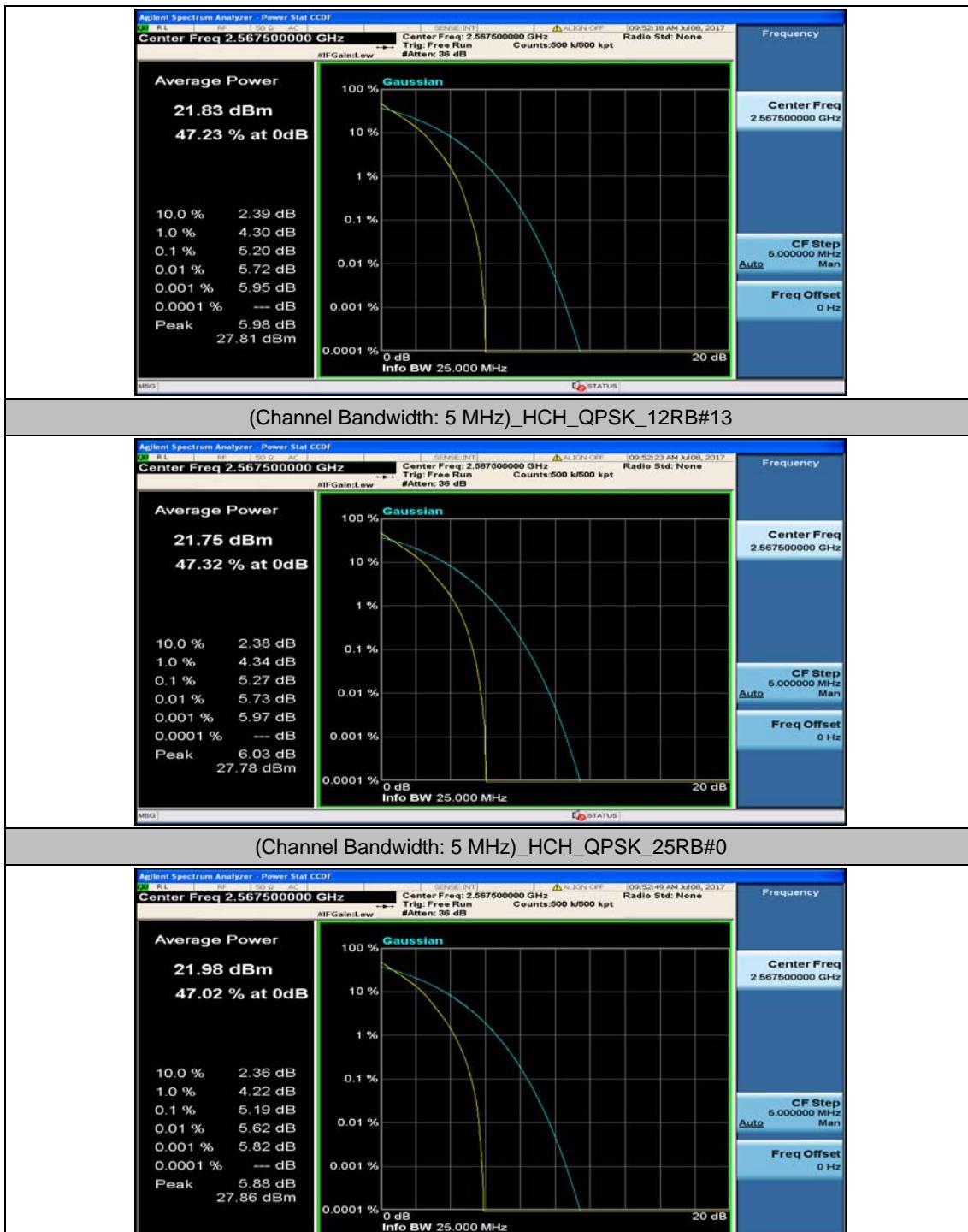


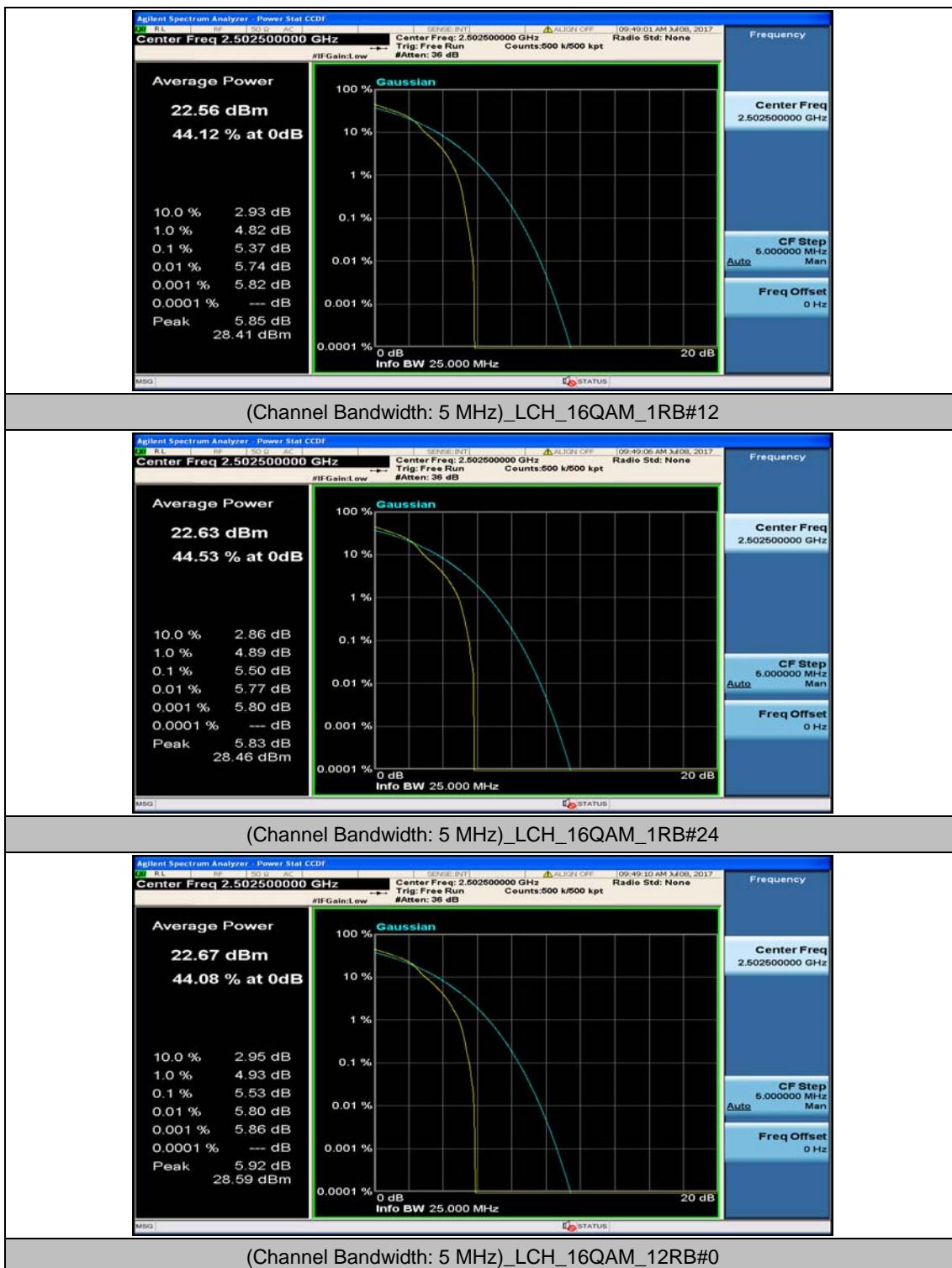


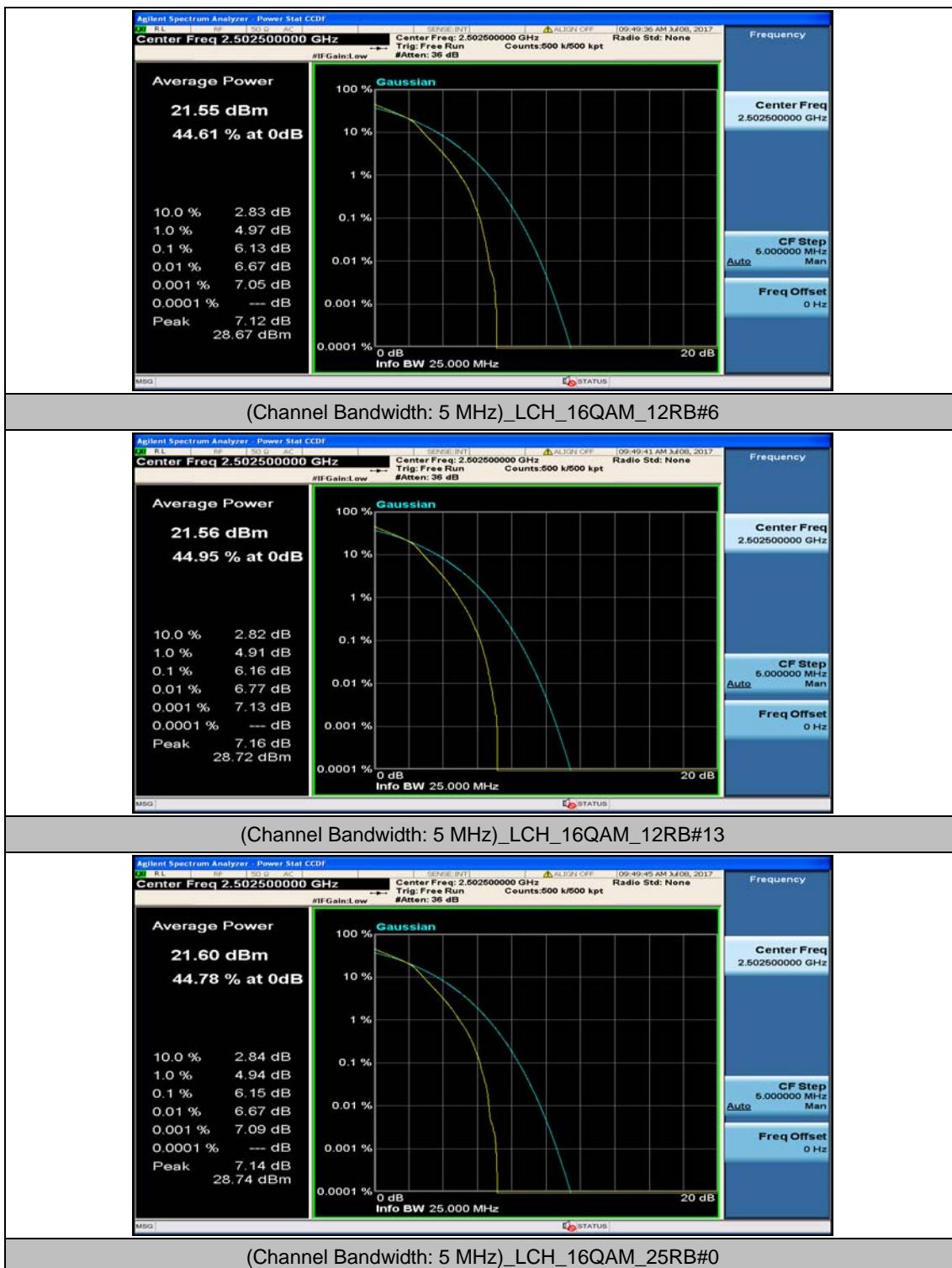


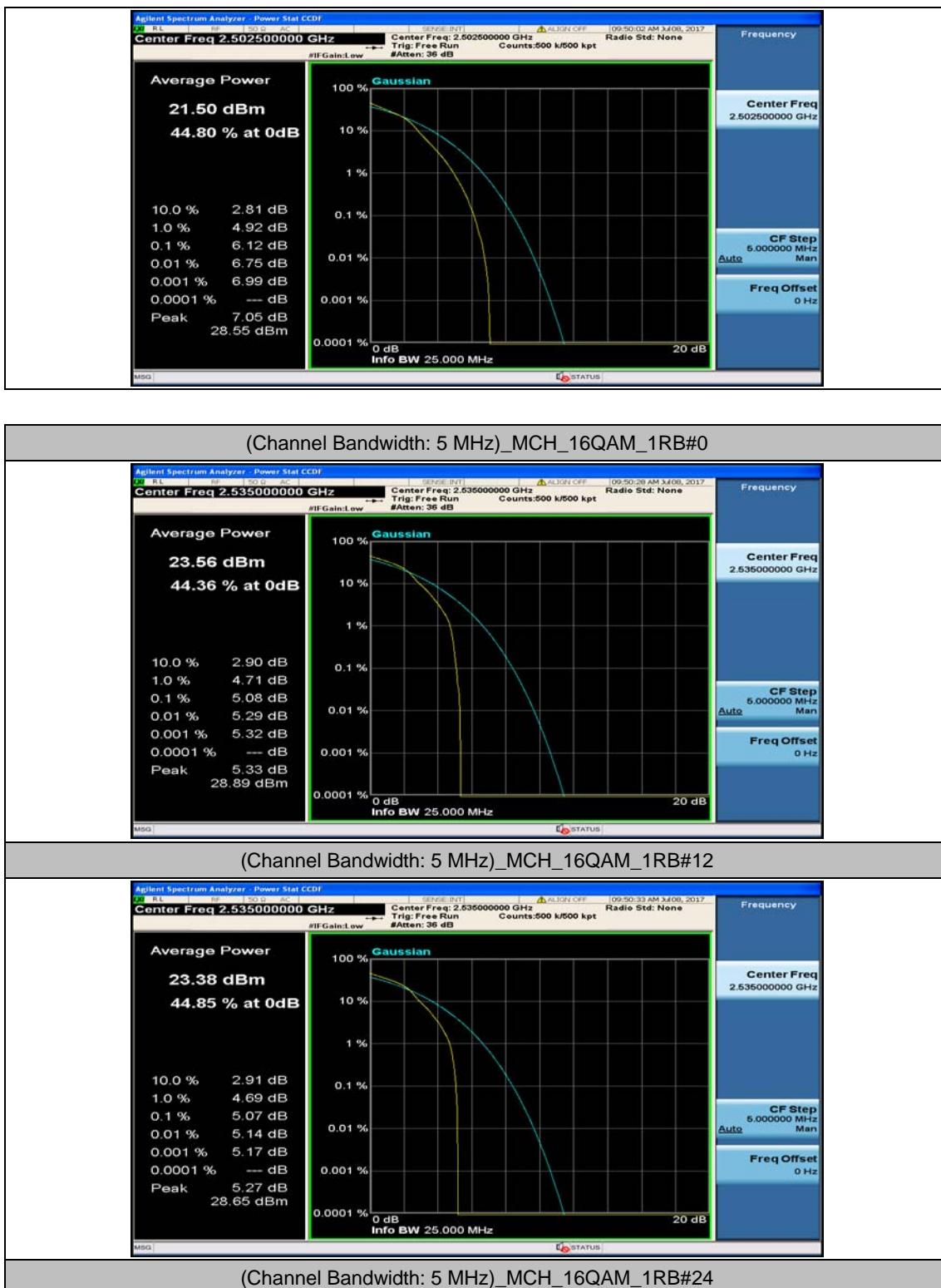


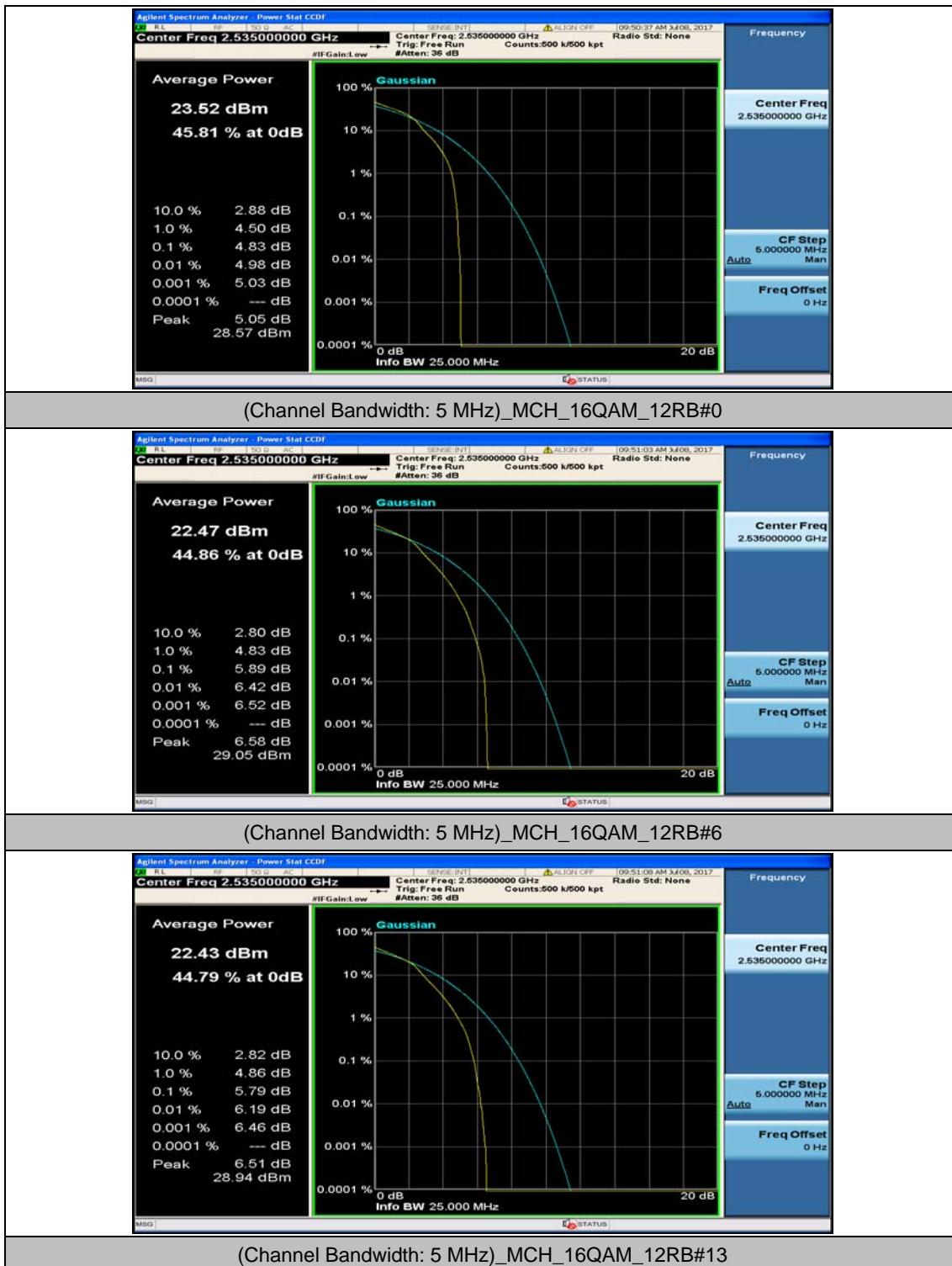


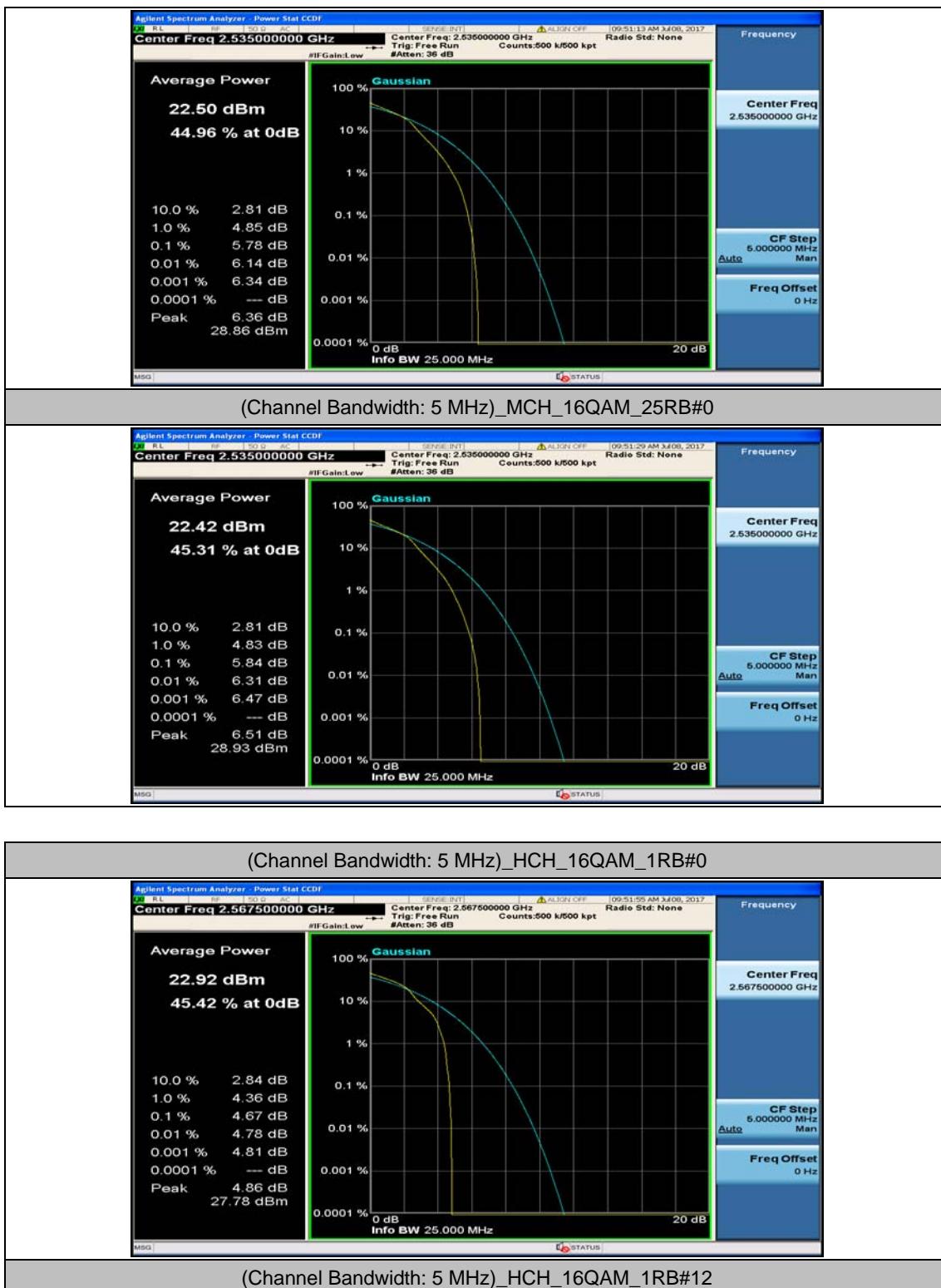


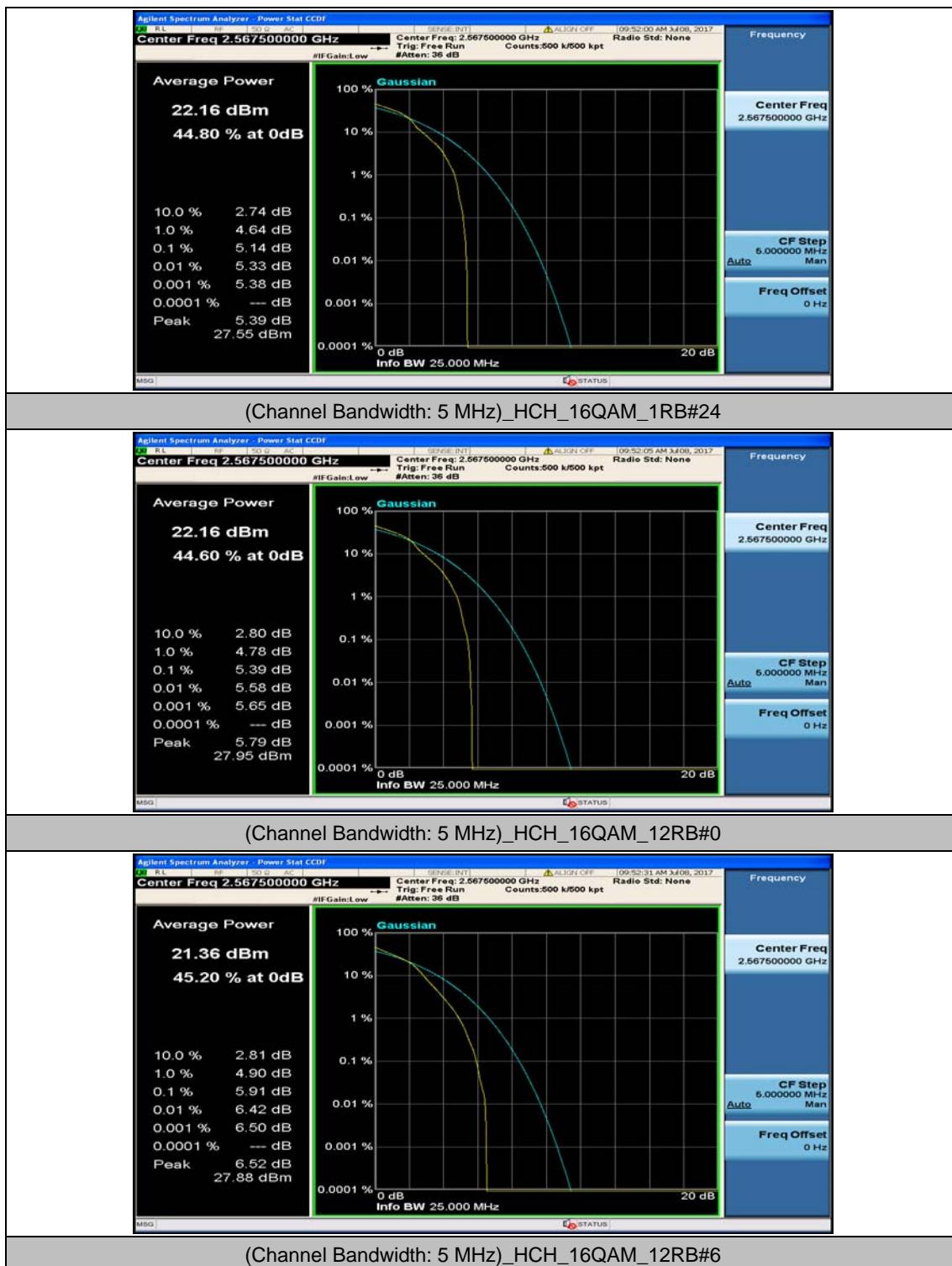


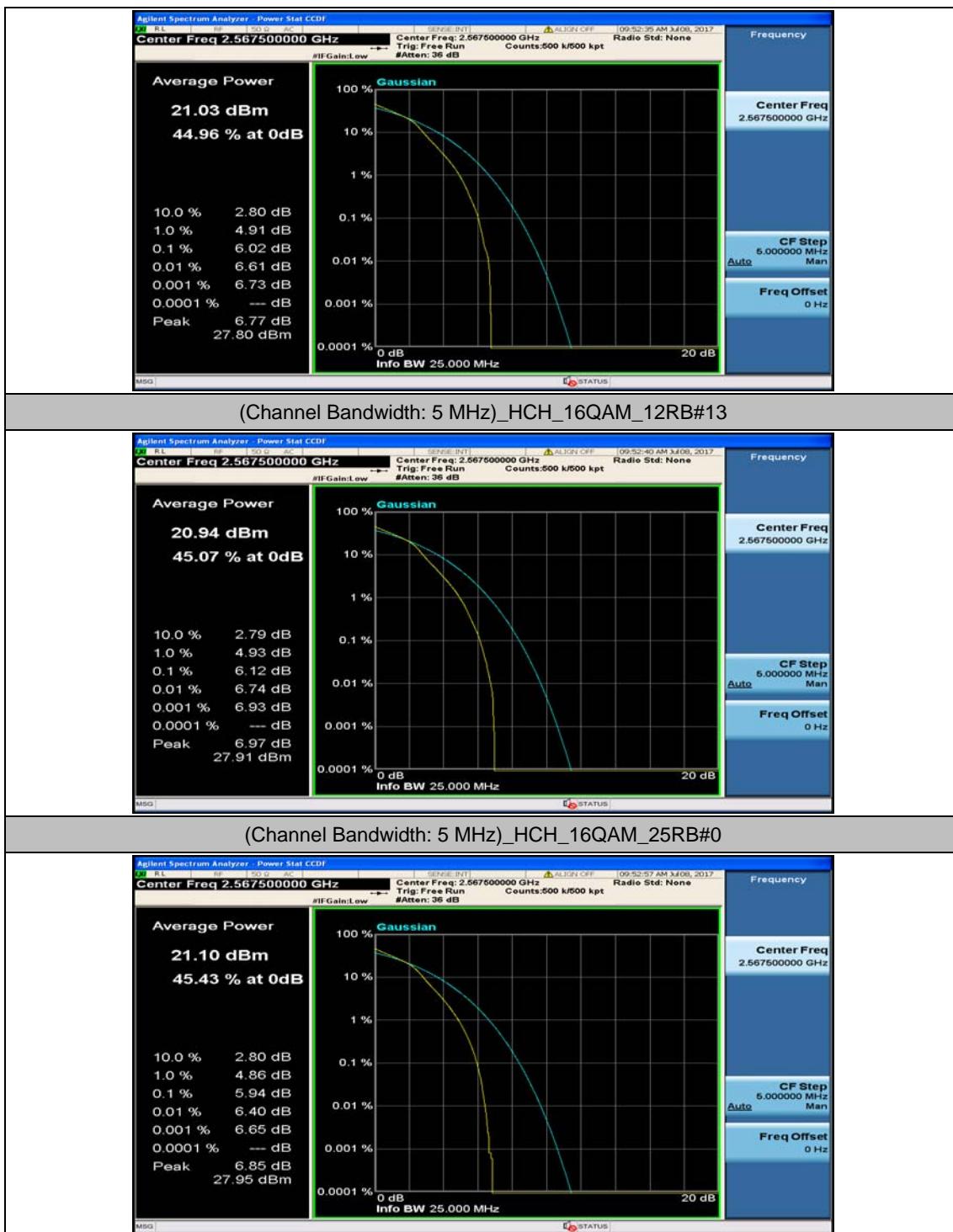




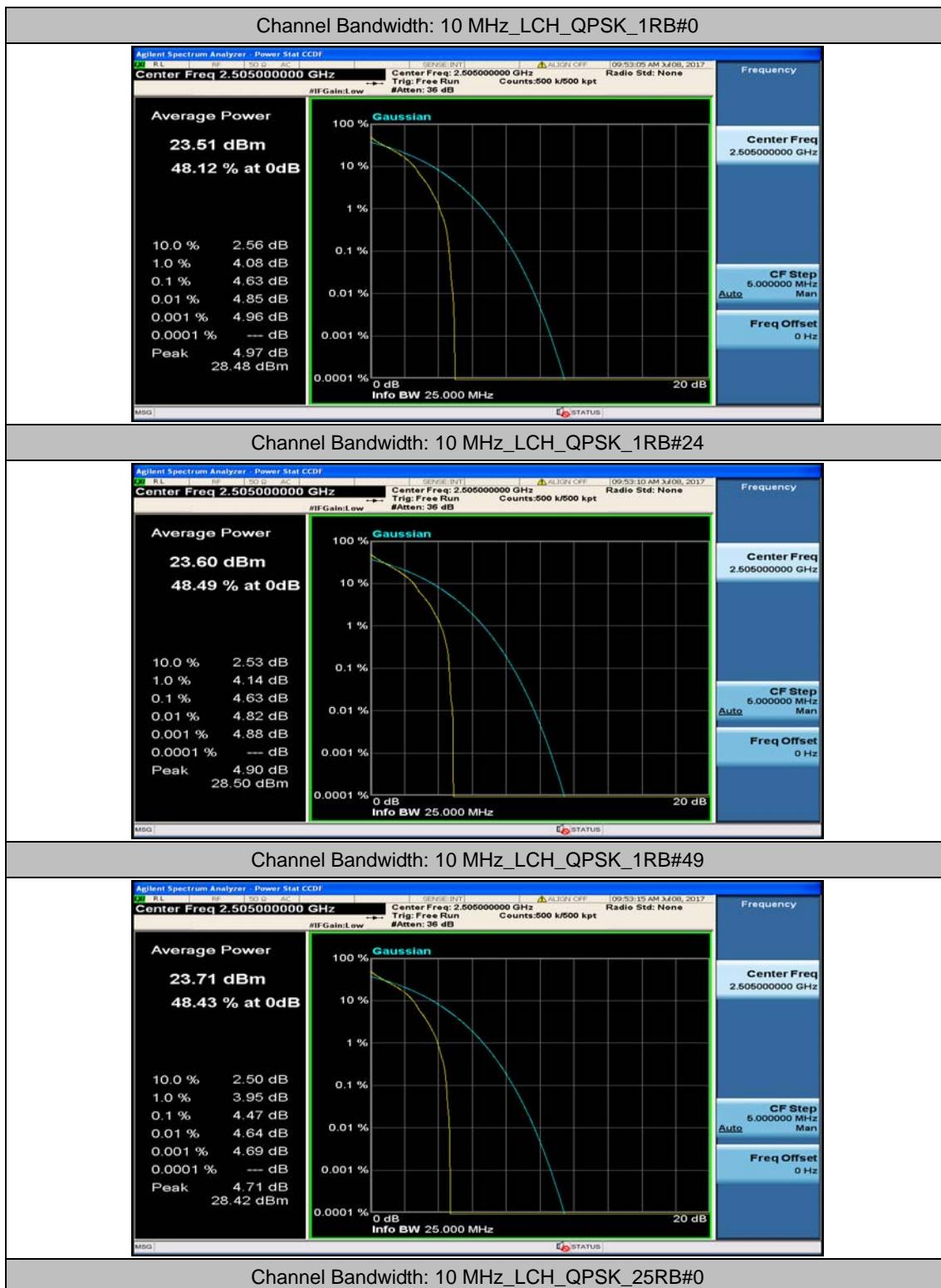


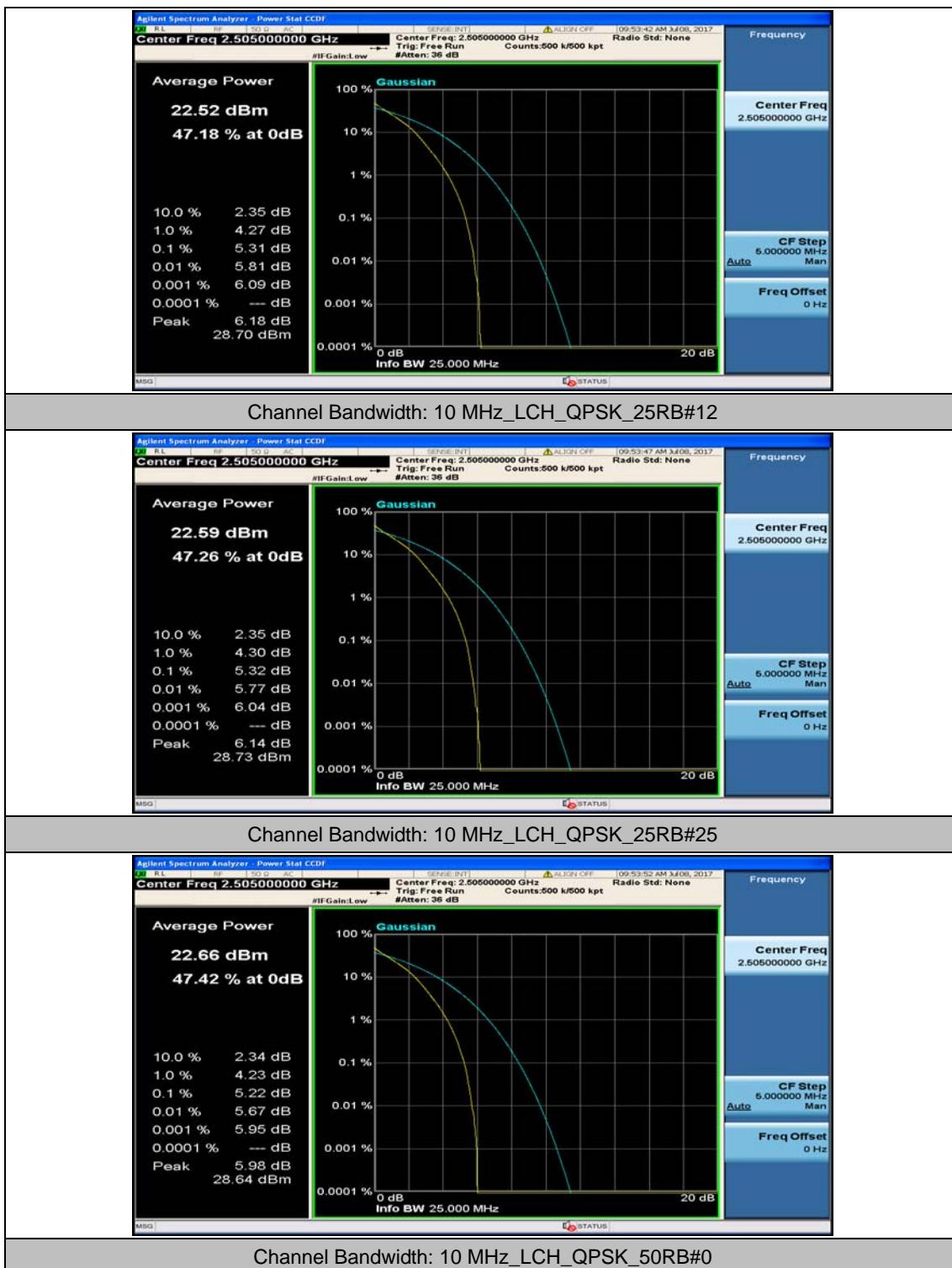


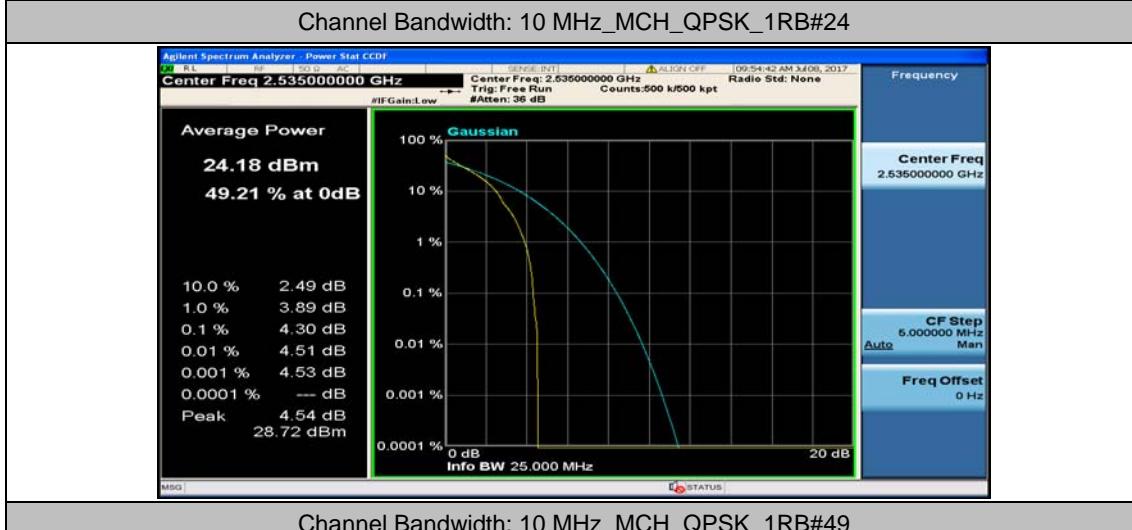
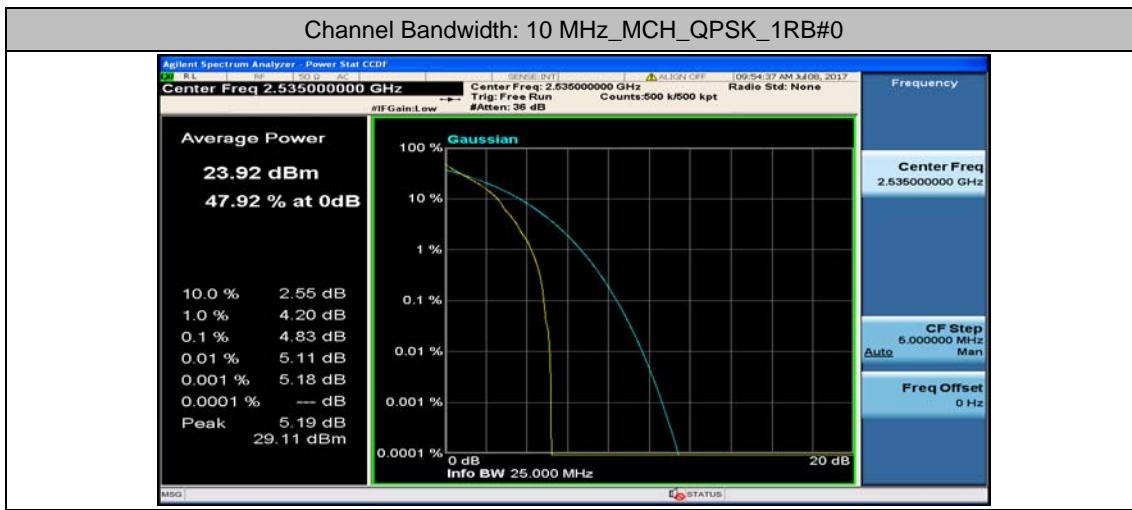
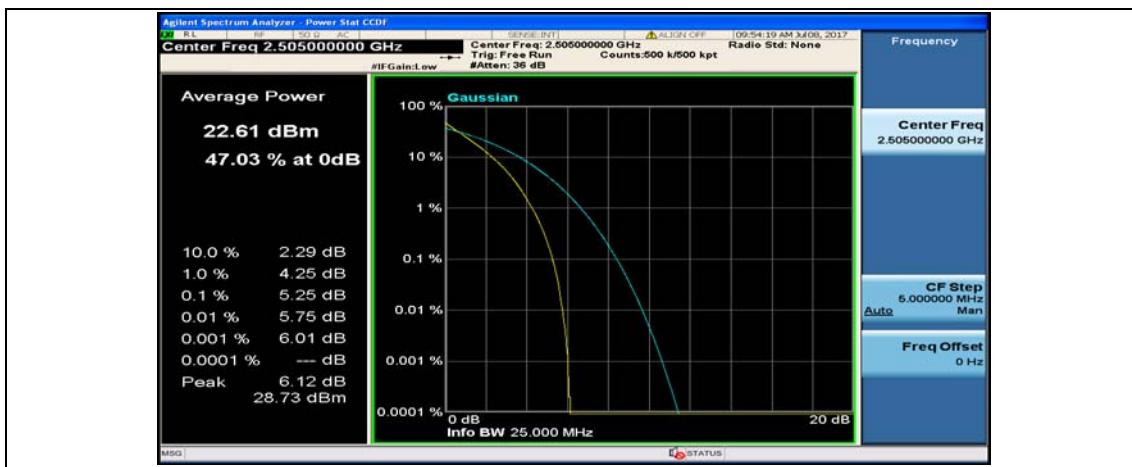




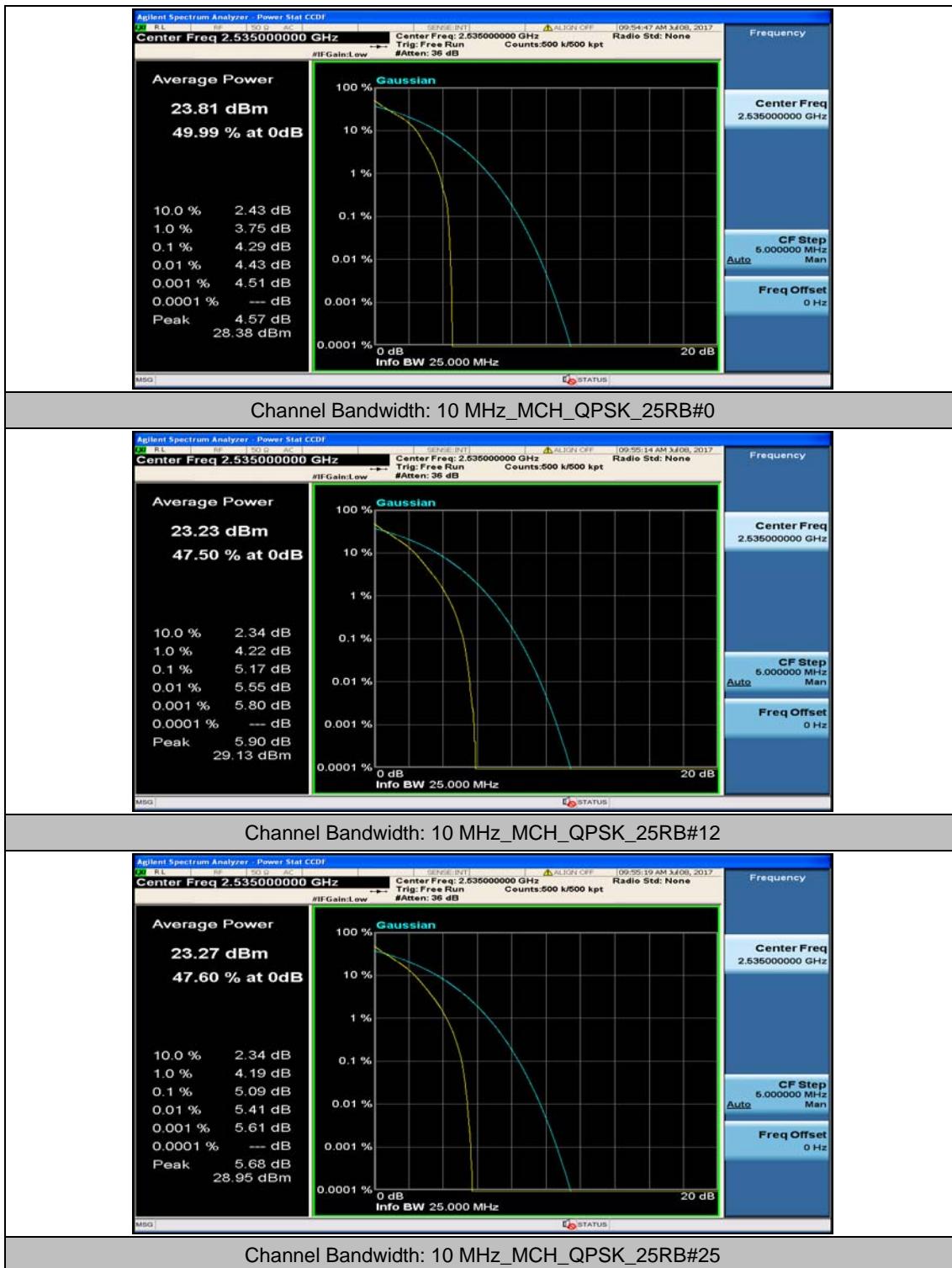
Channel Bandwidth: 10 MHz

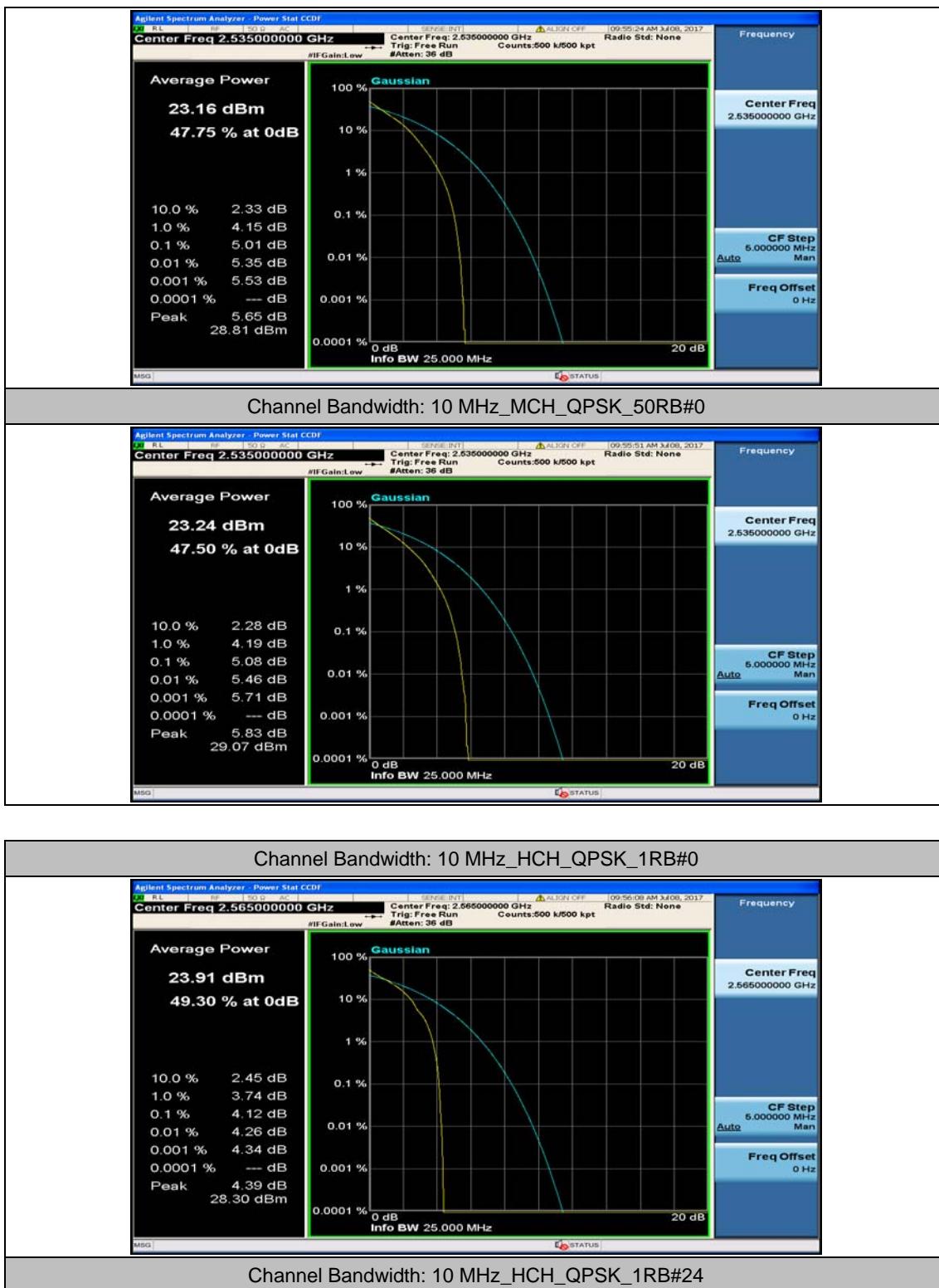


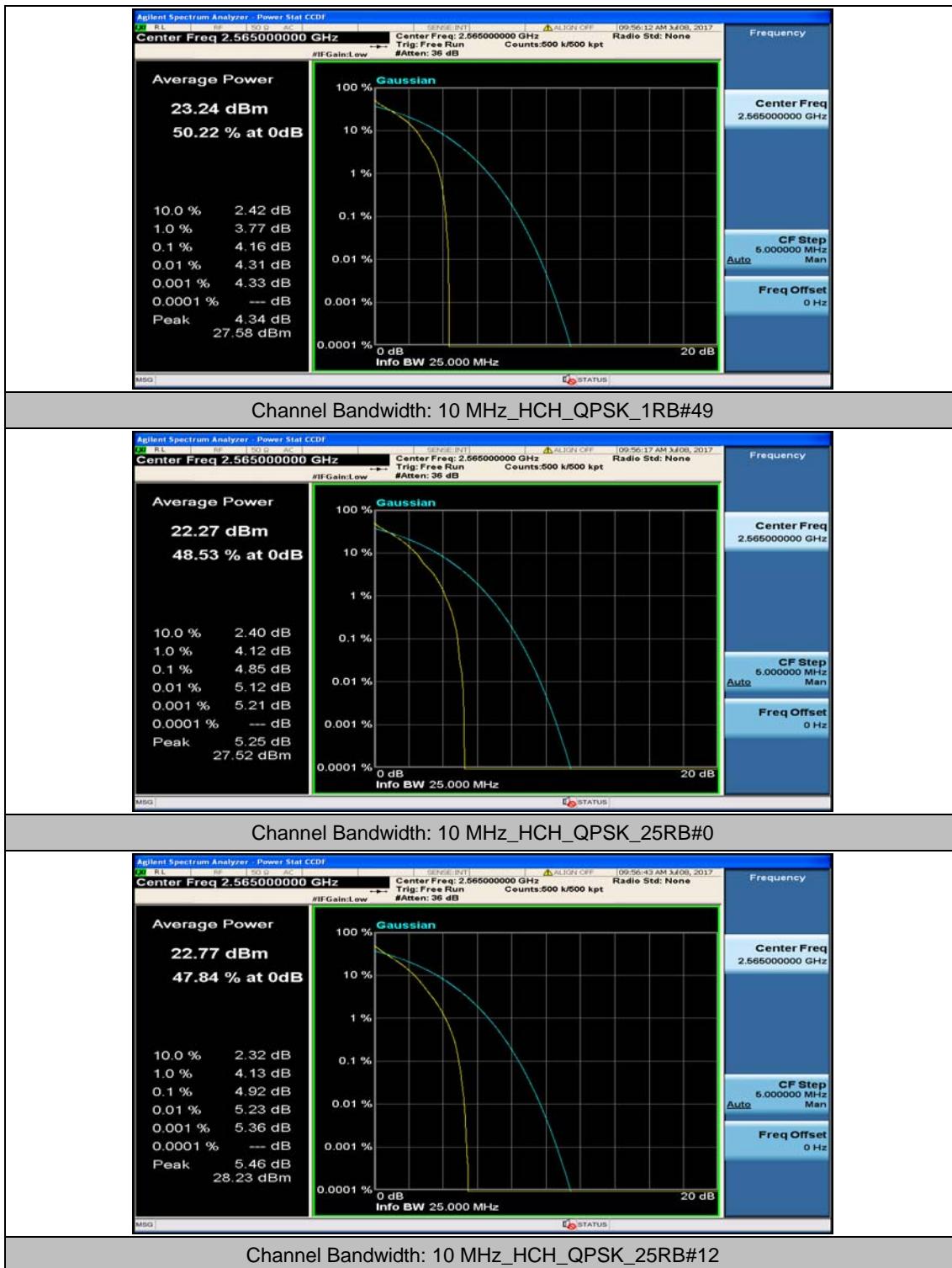


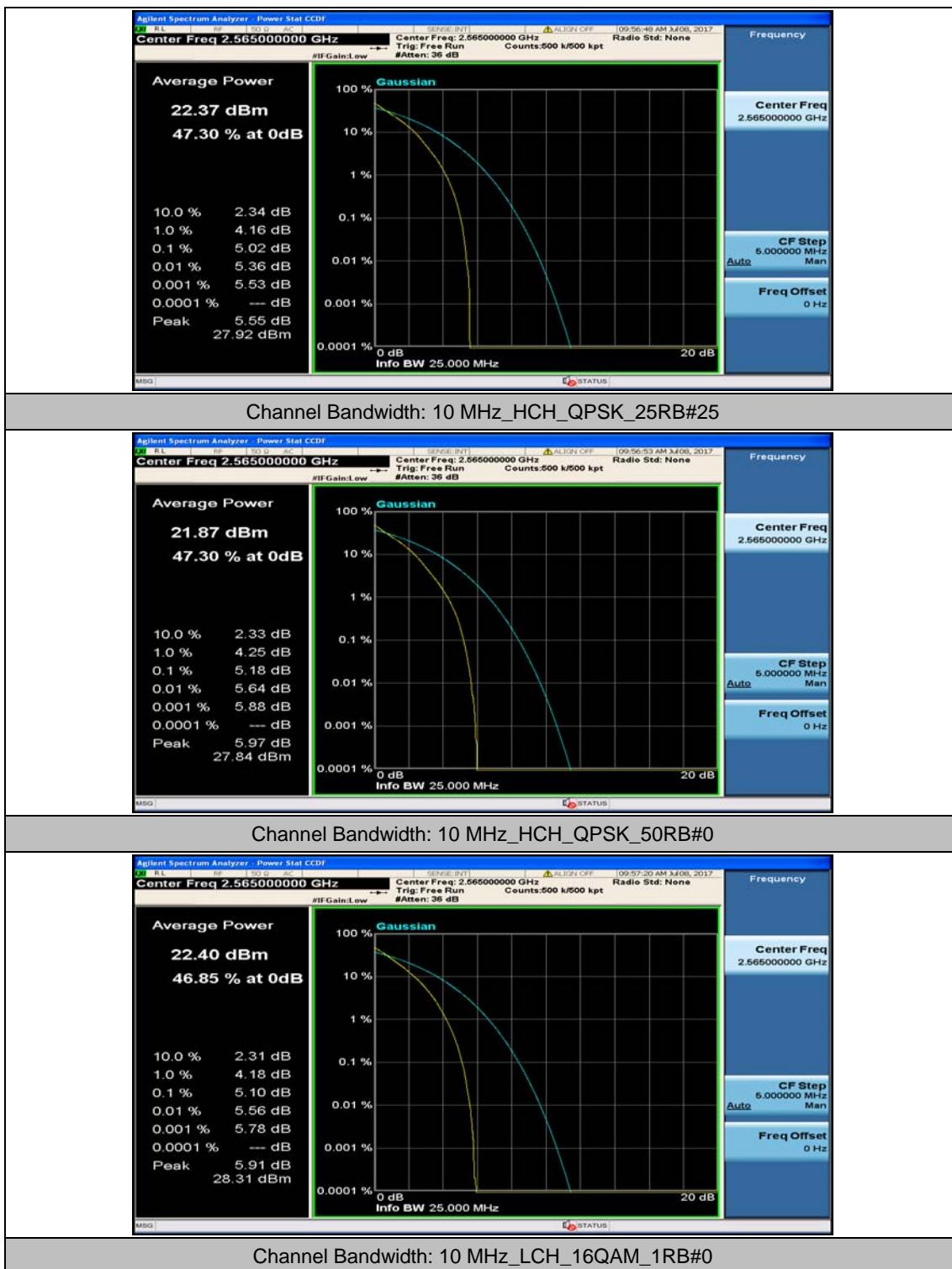


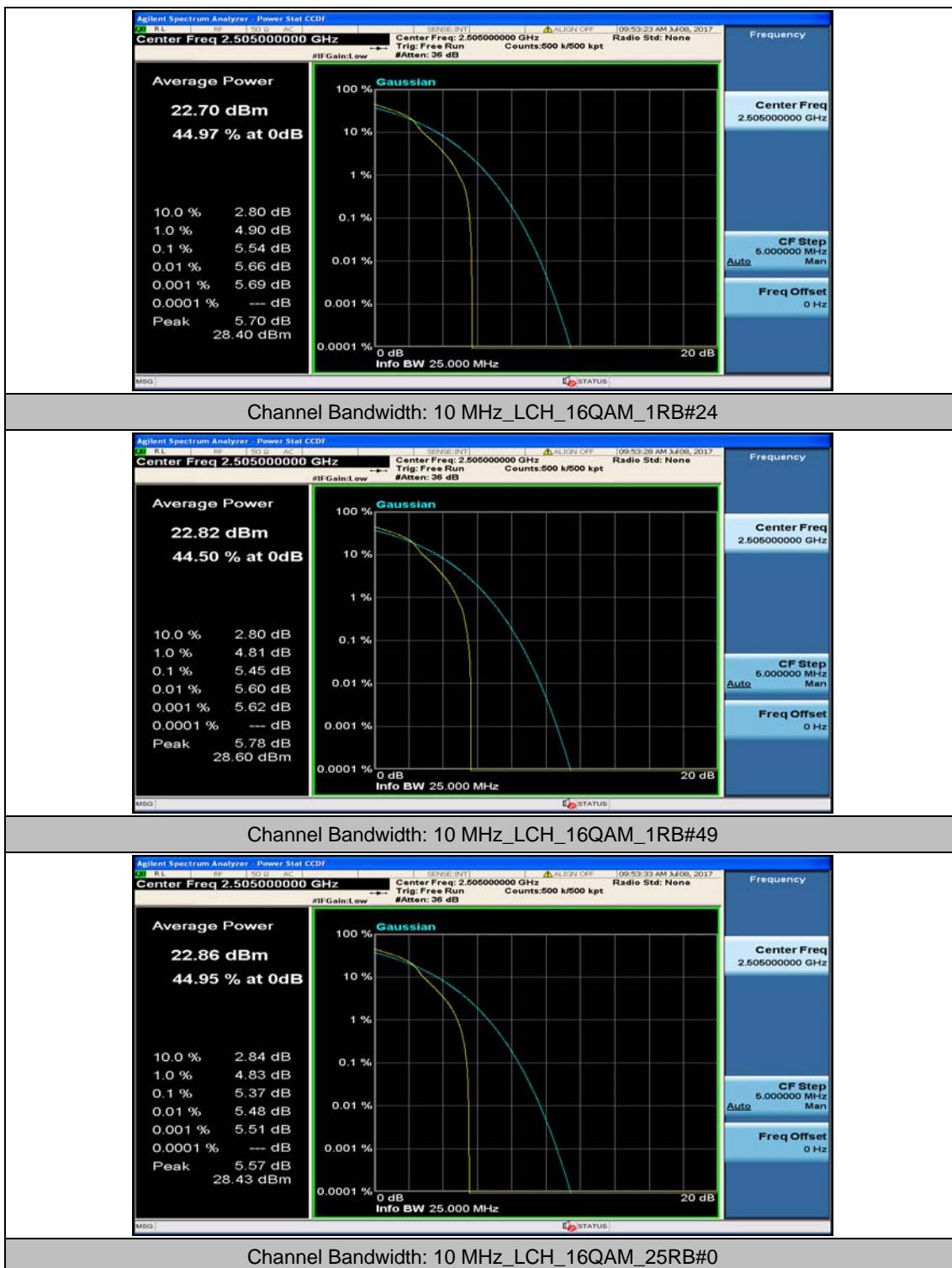
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

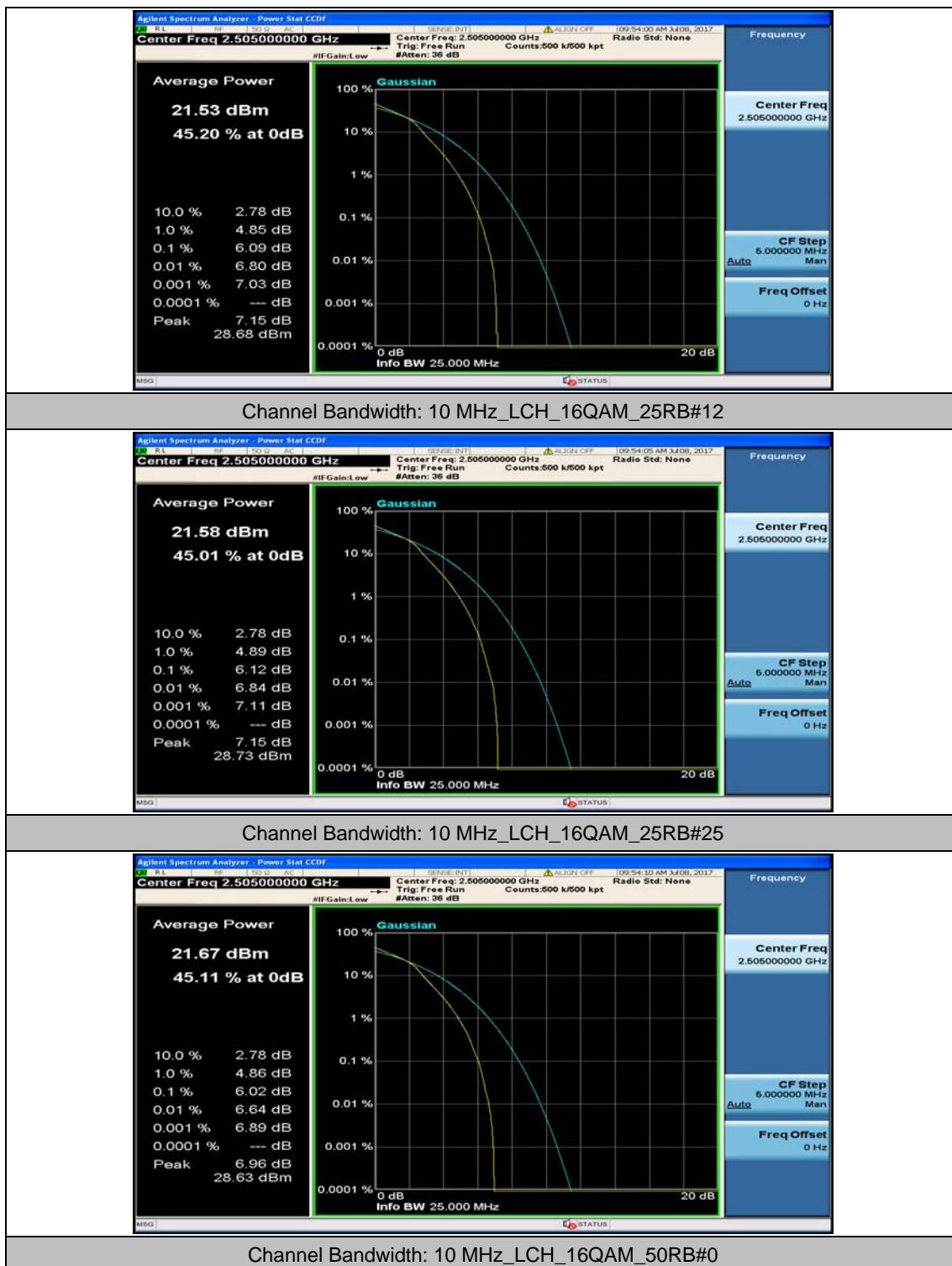


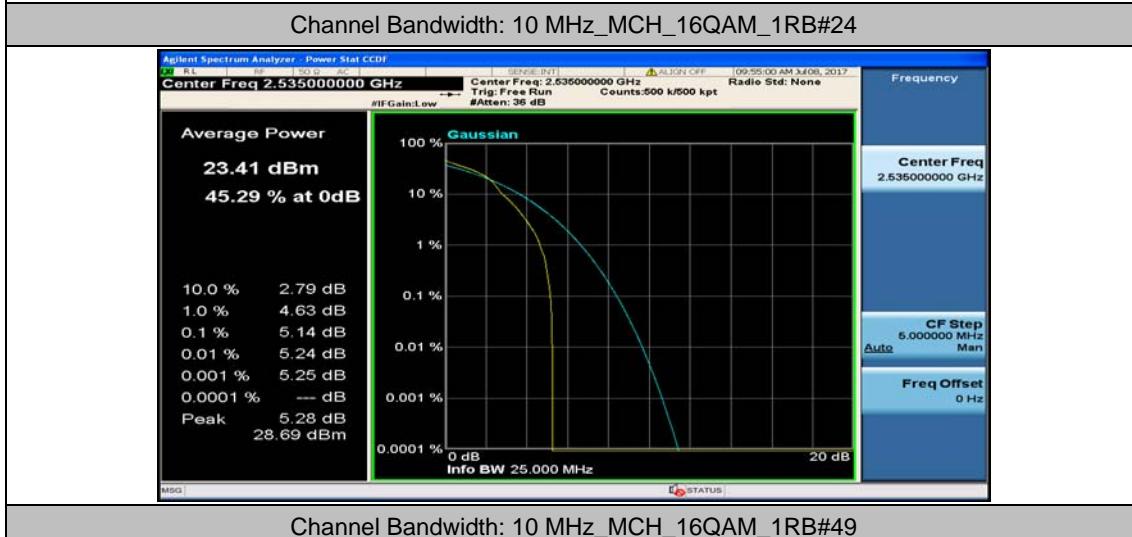
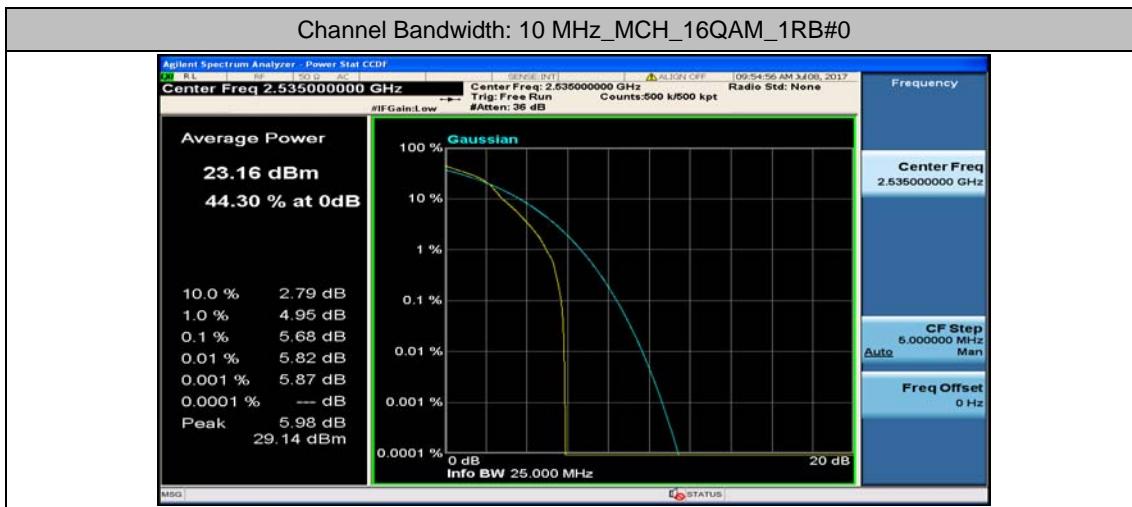
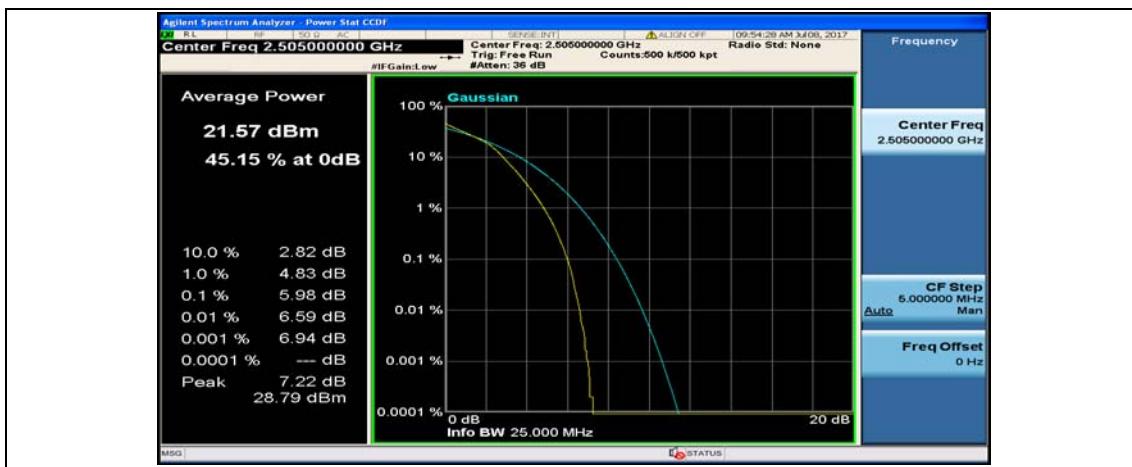




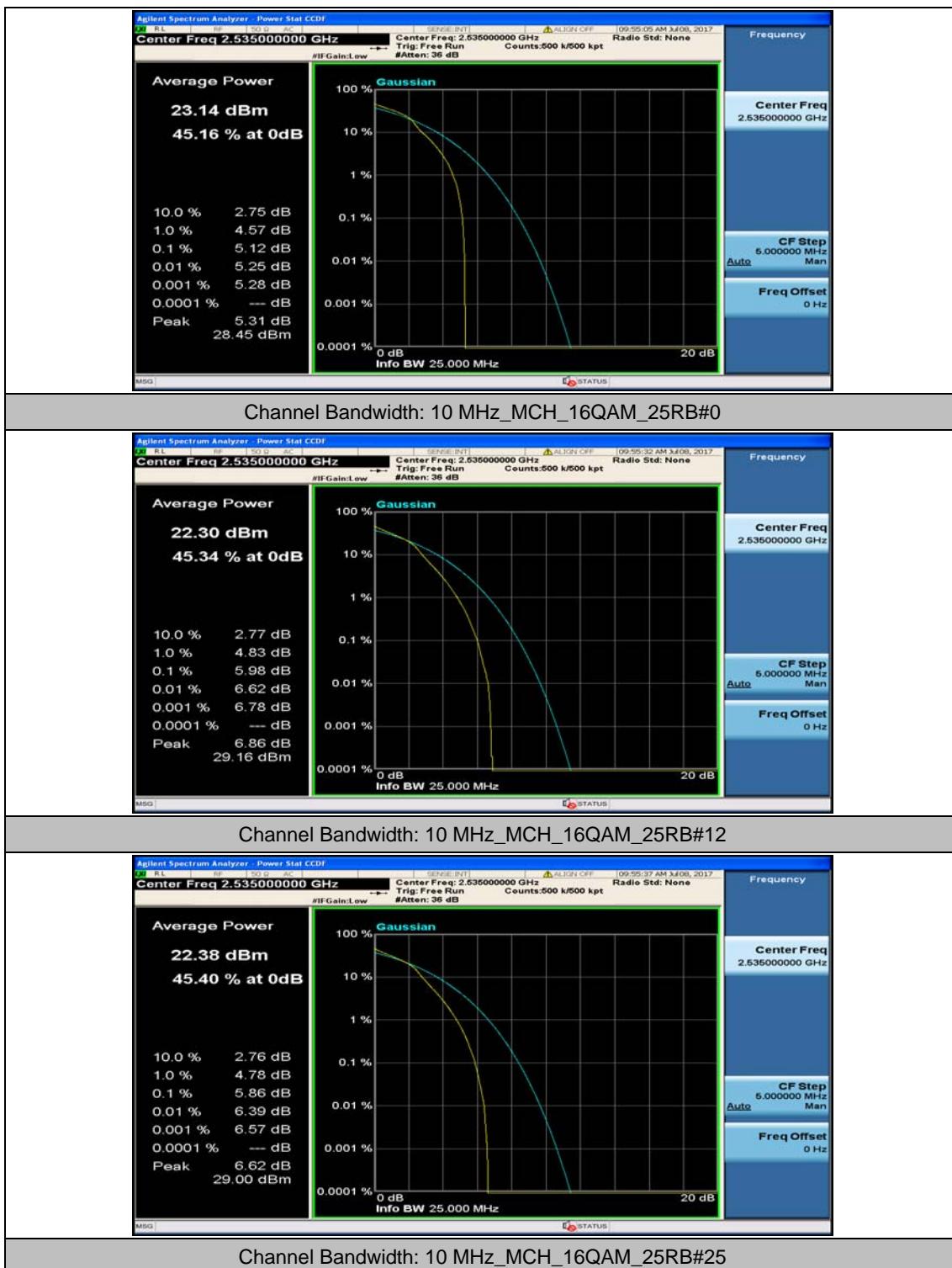


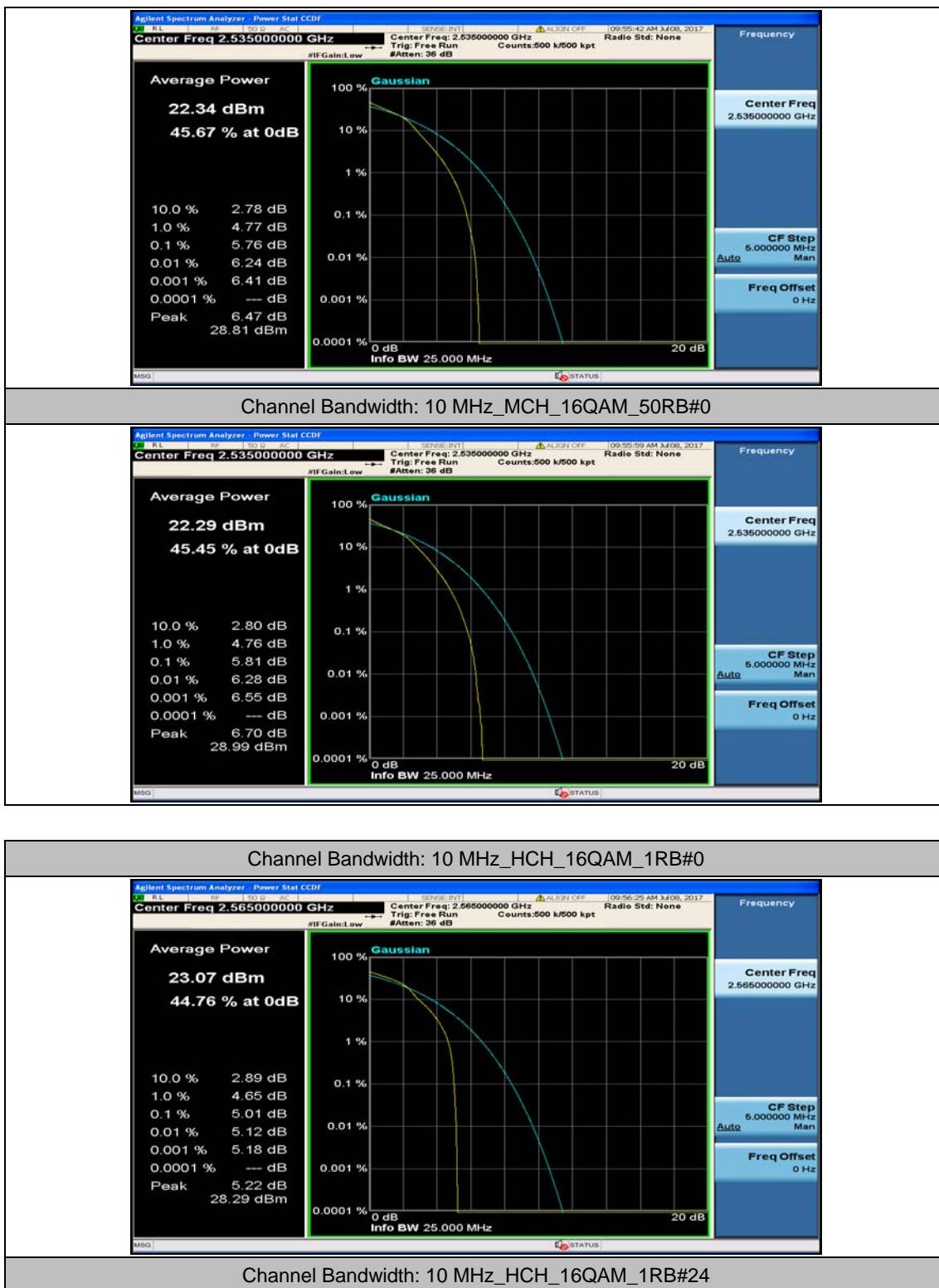


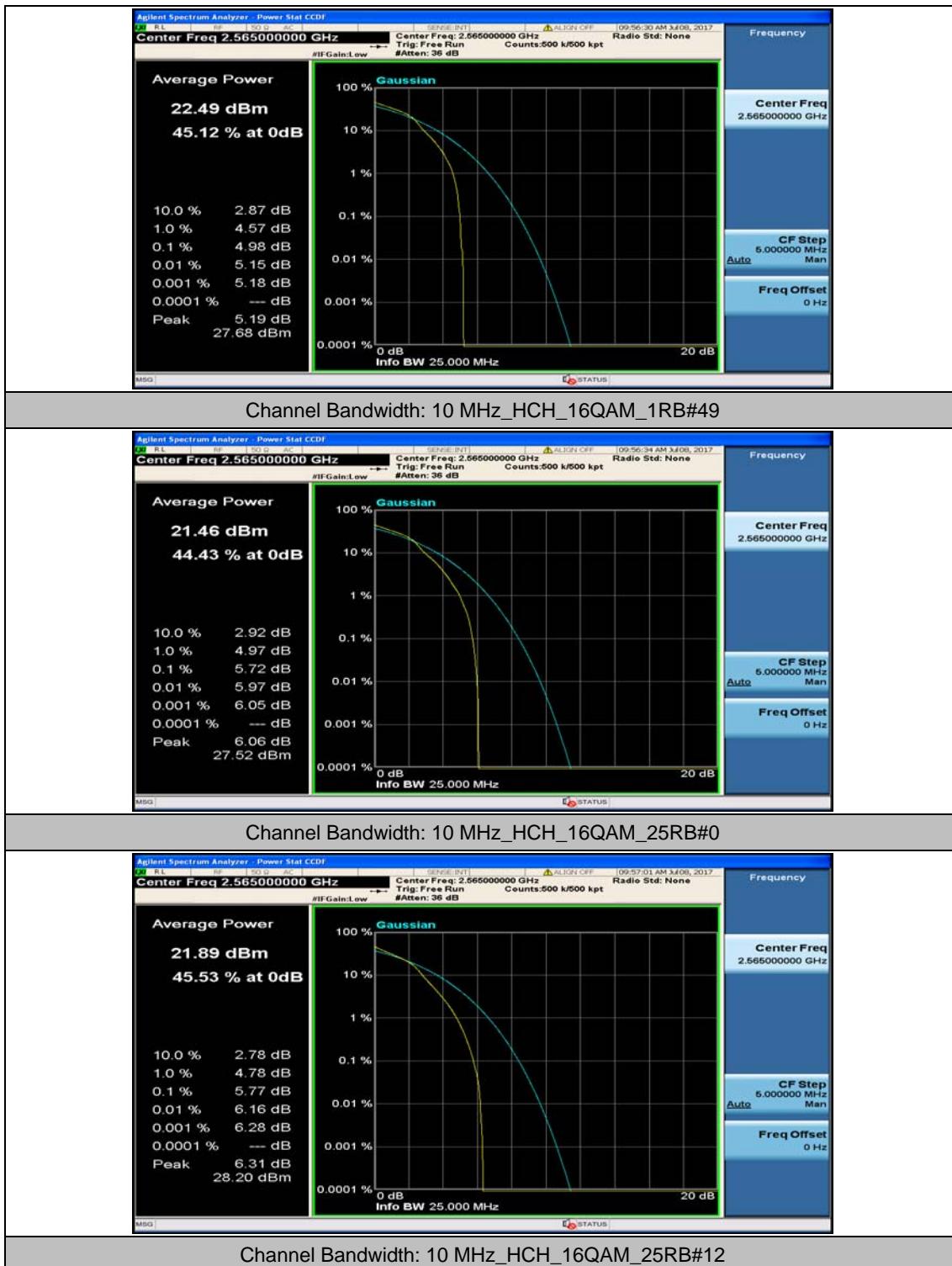


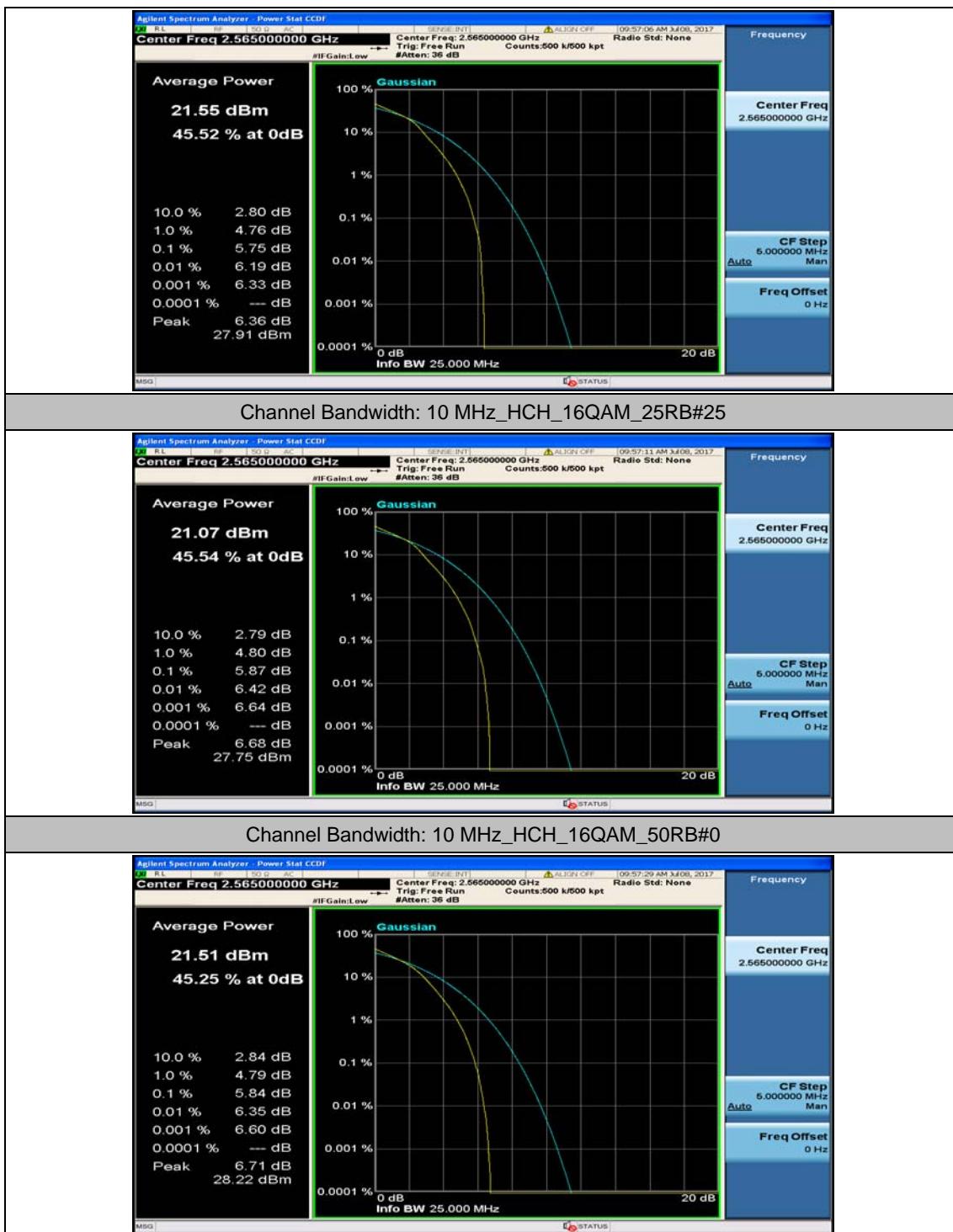


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

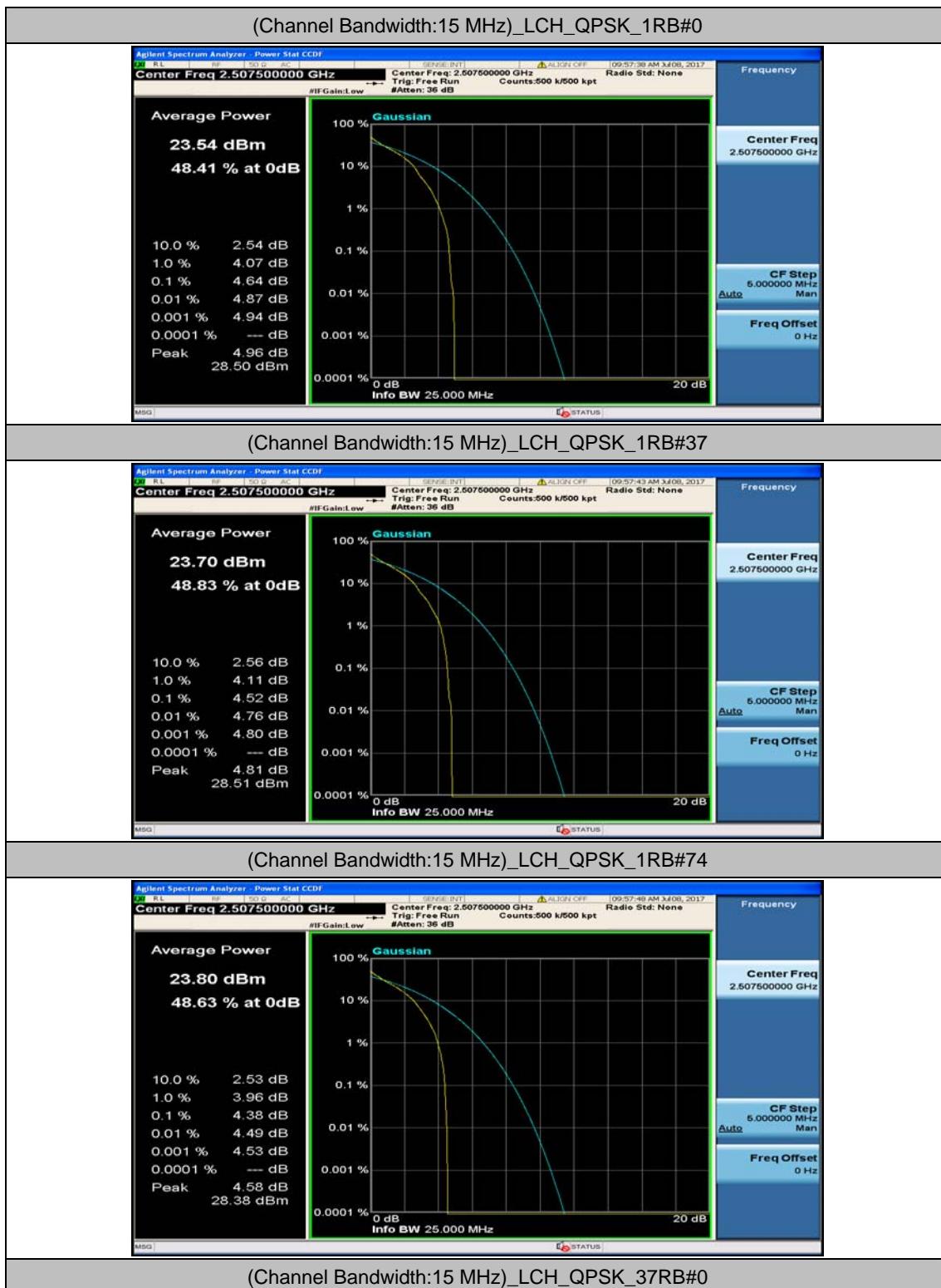


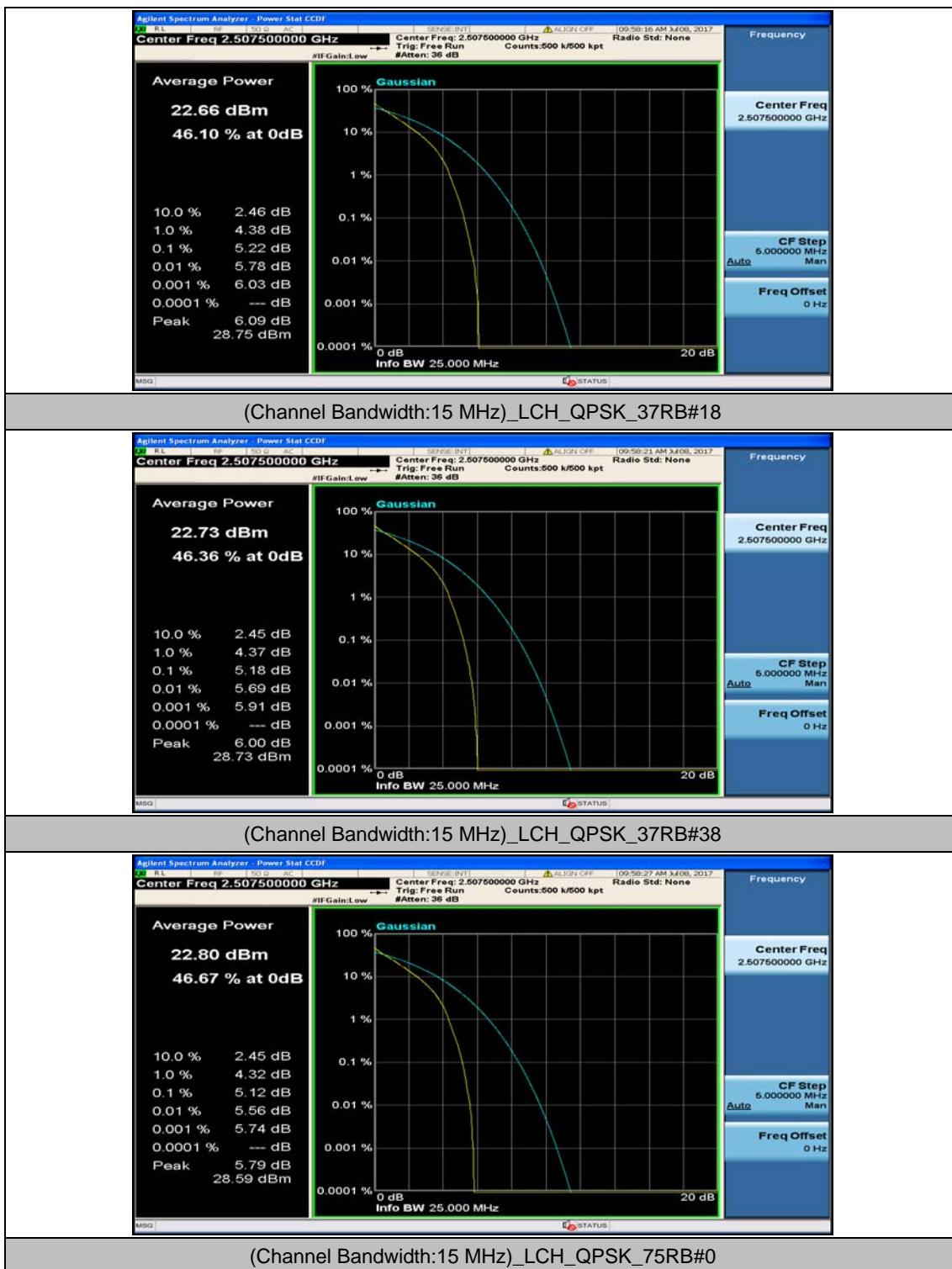


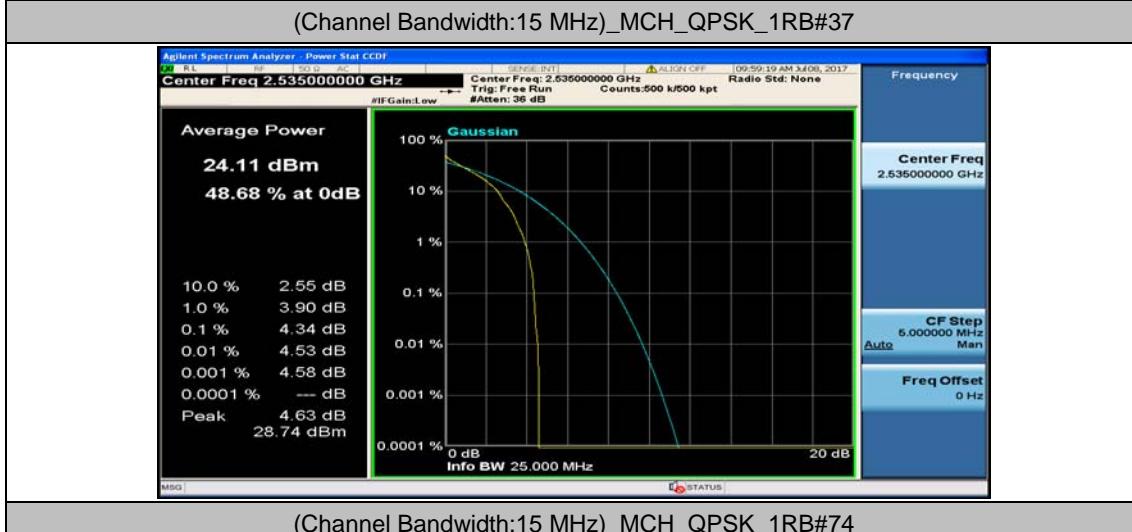
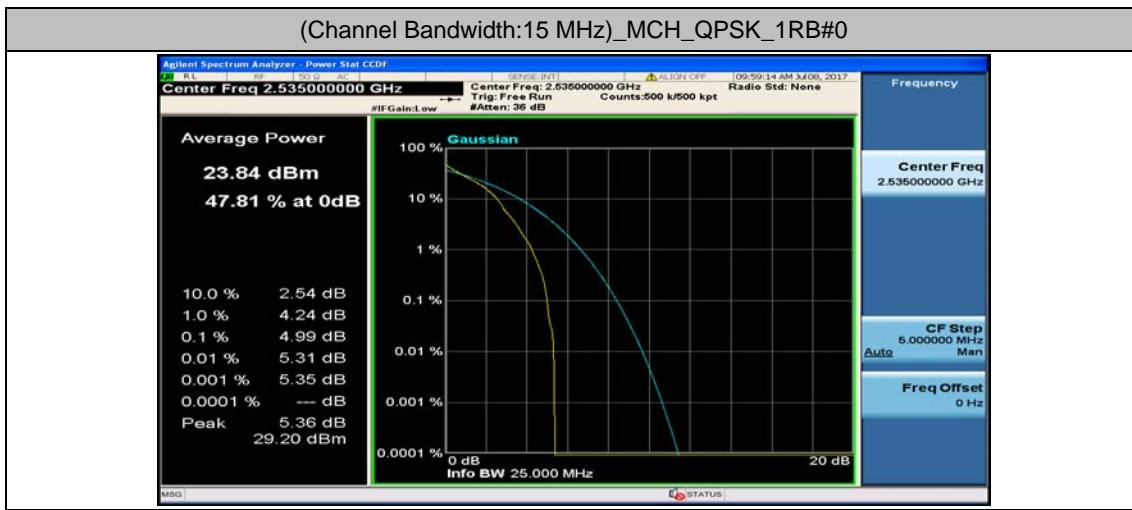
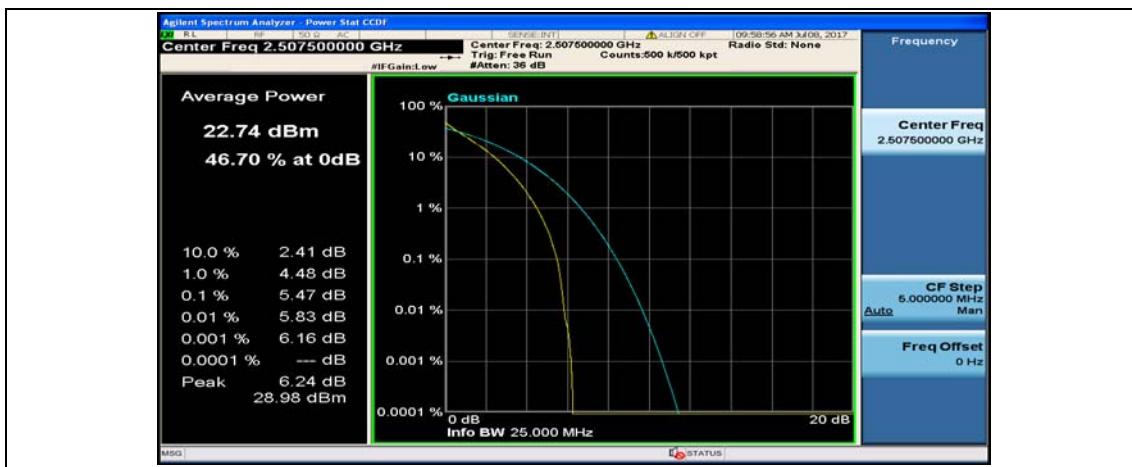




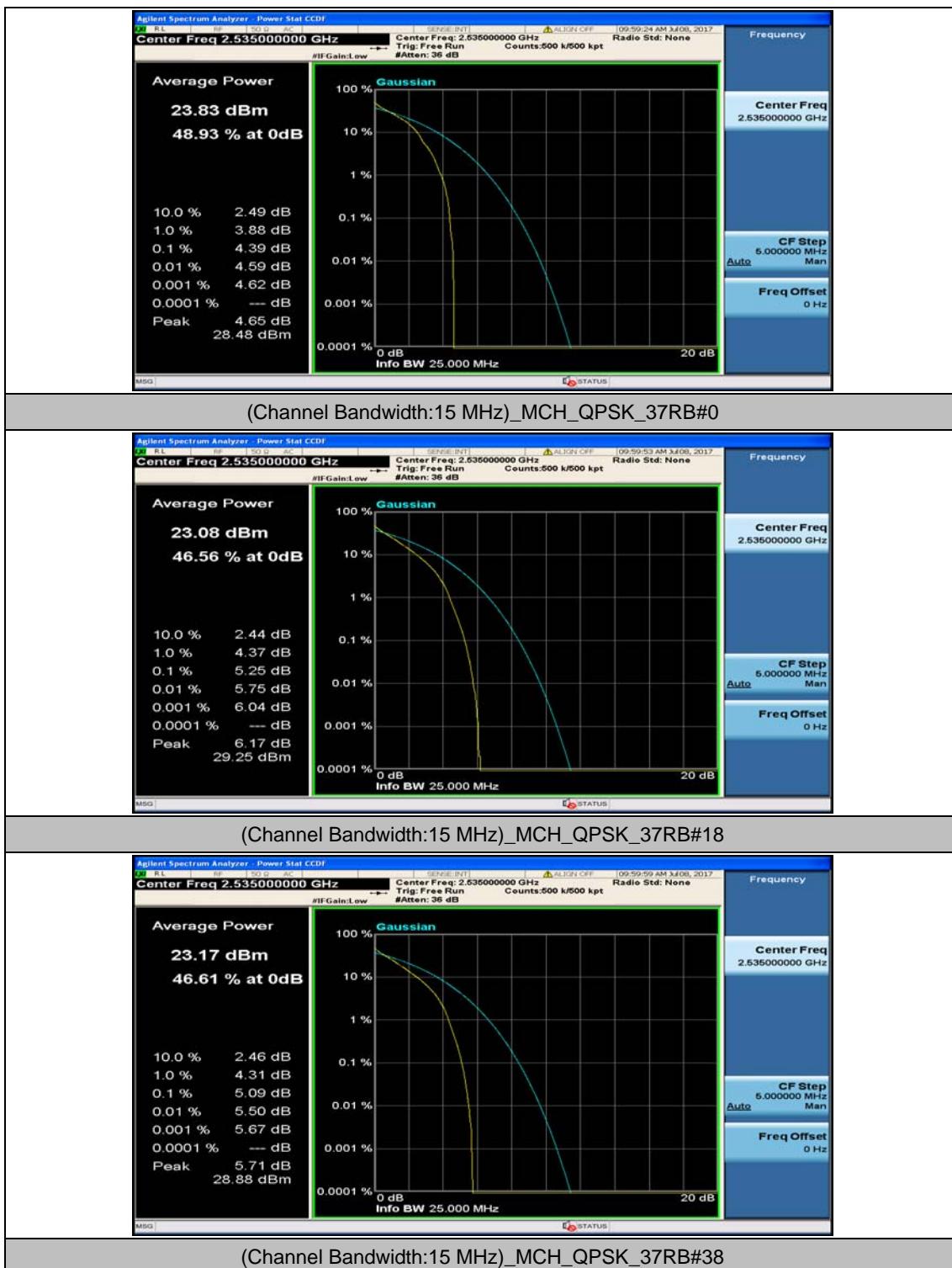
Channel Bandwidth: 15 MHz

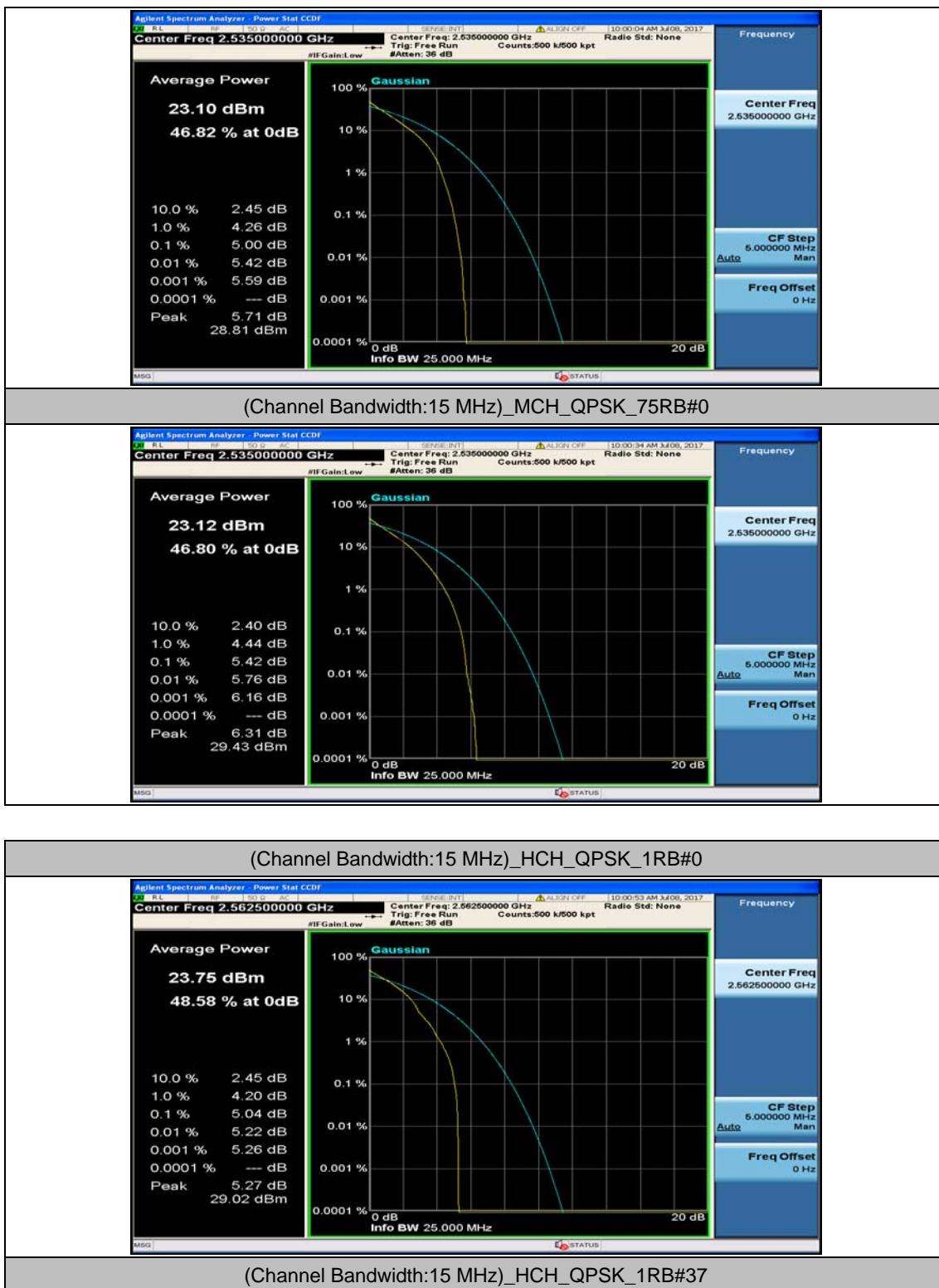


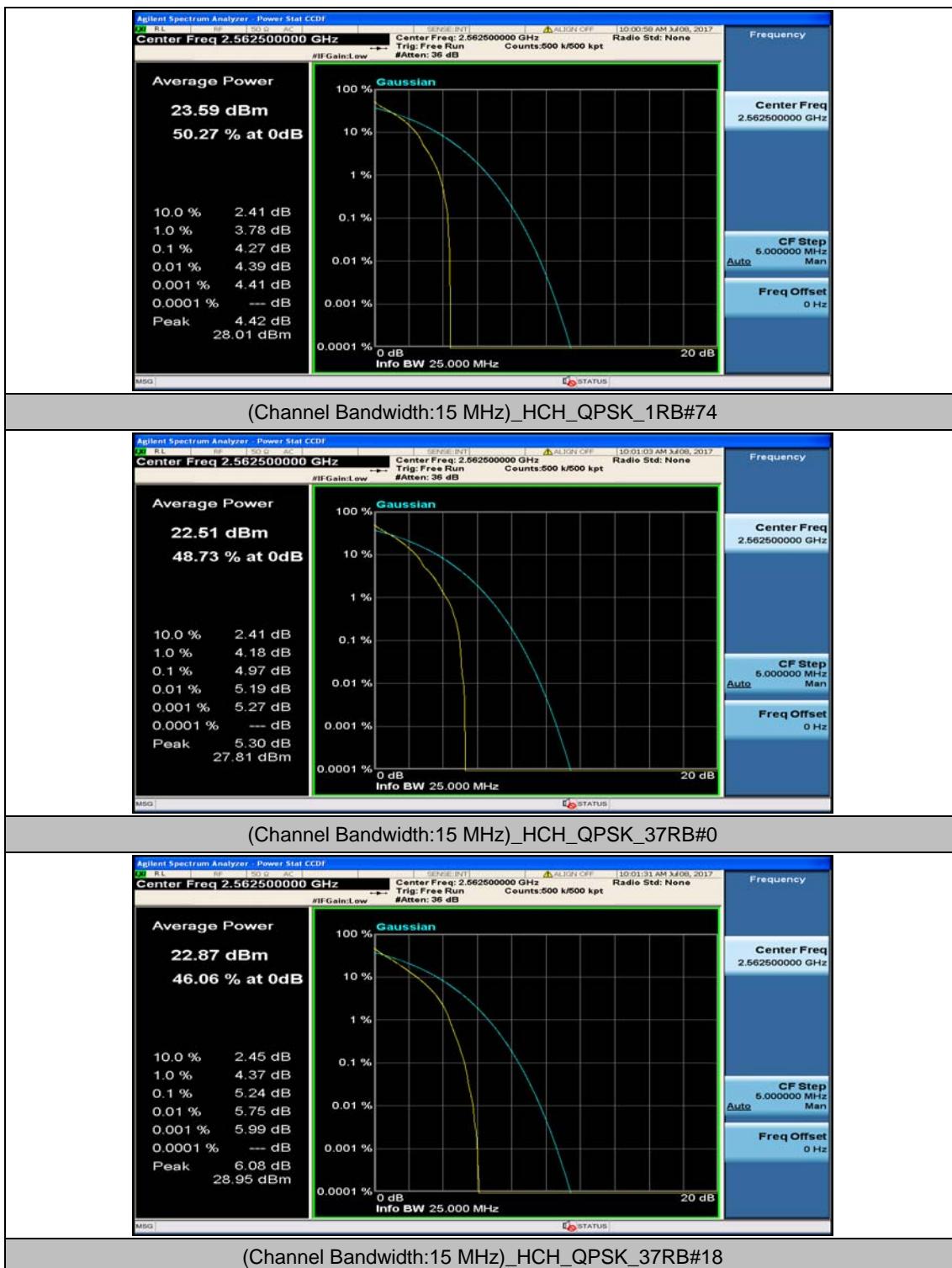


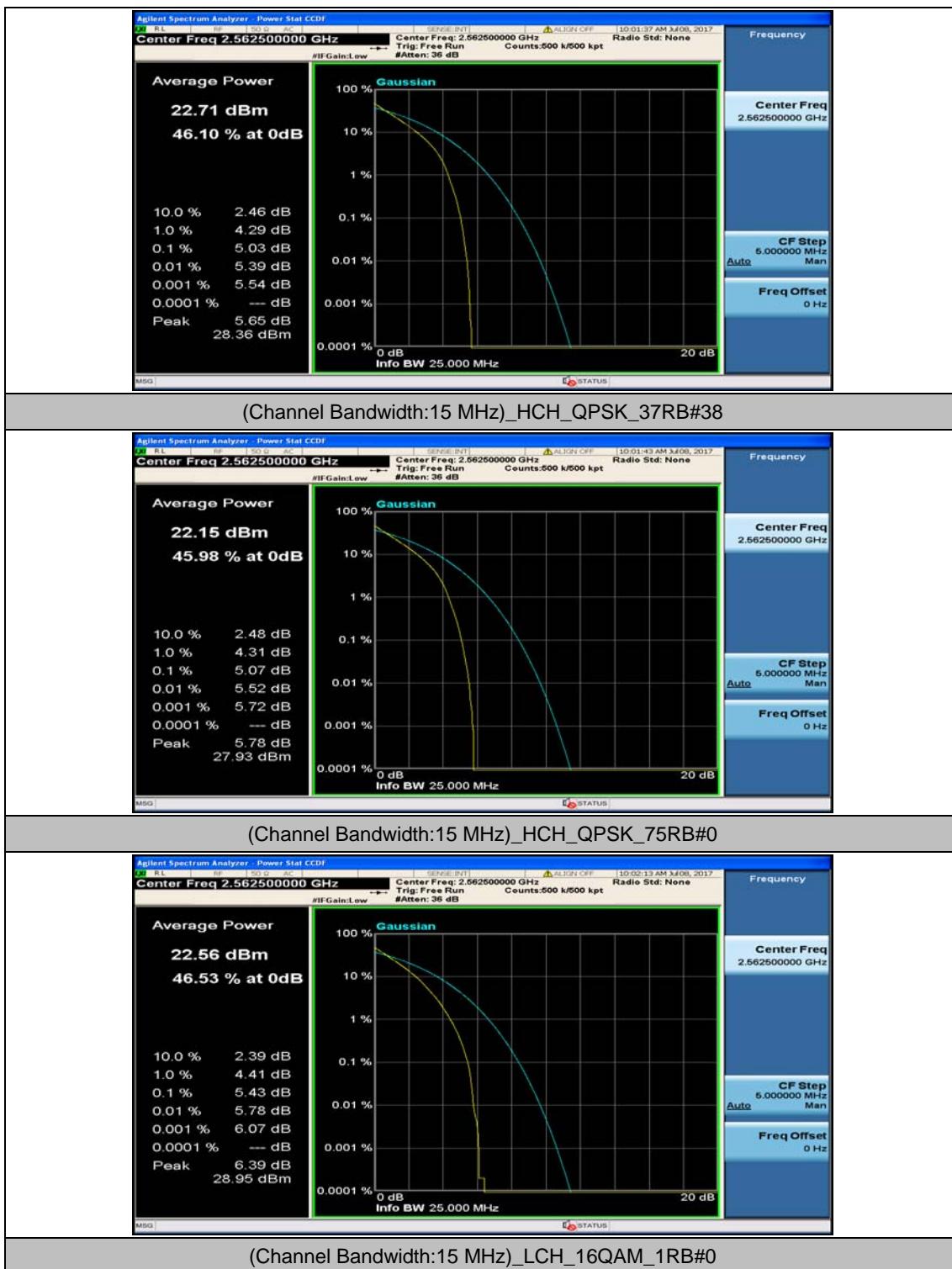


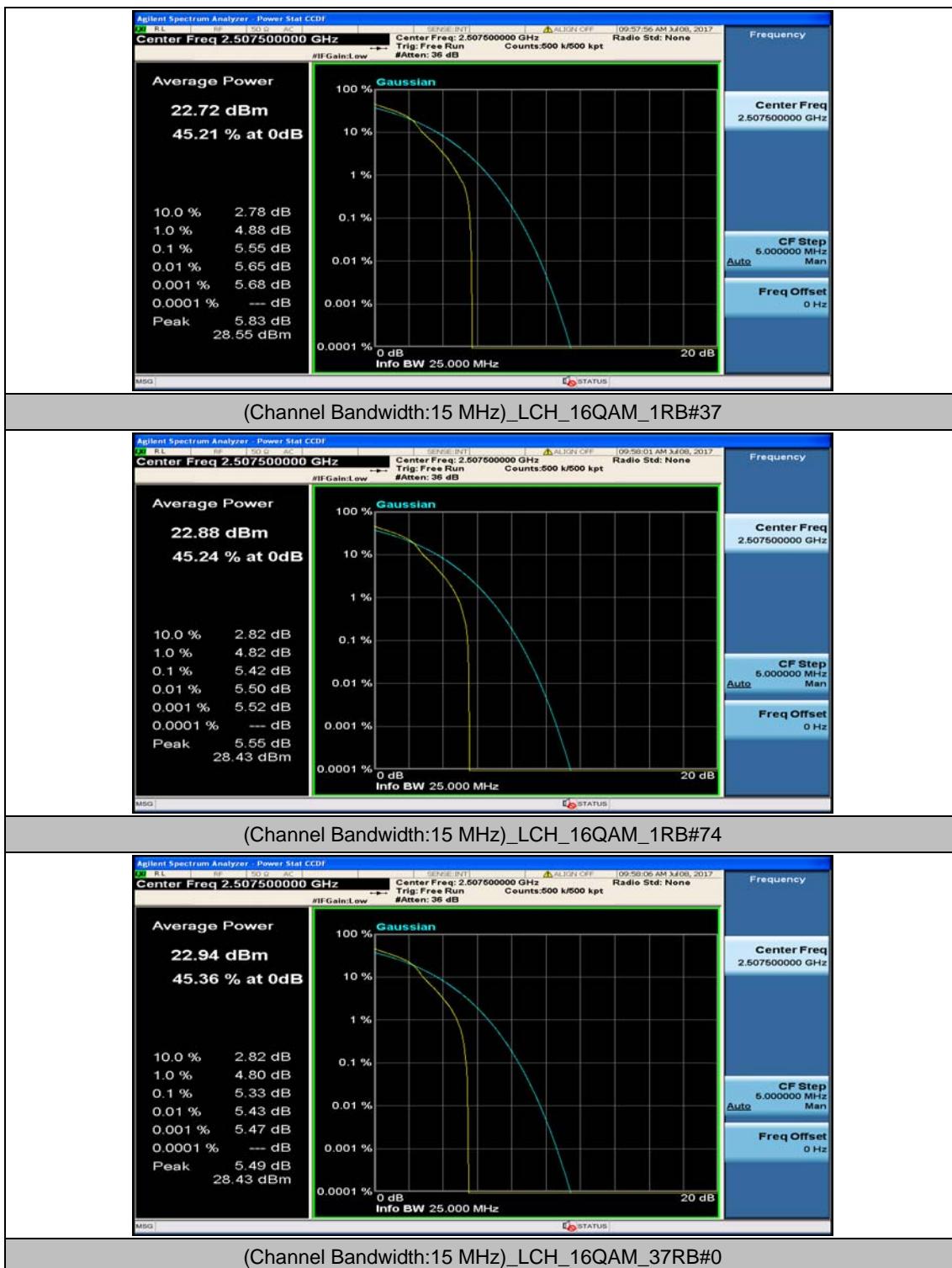
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

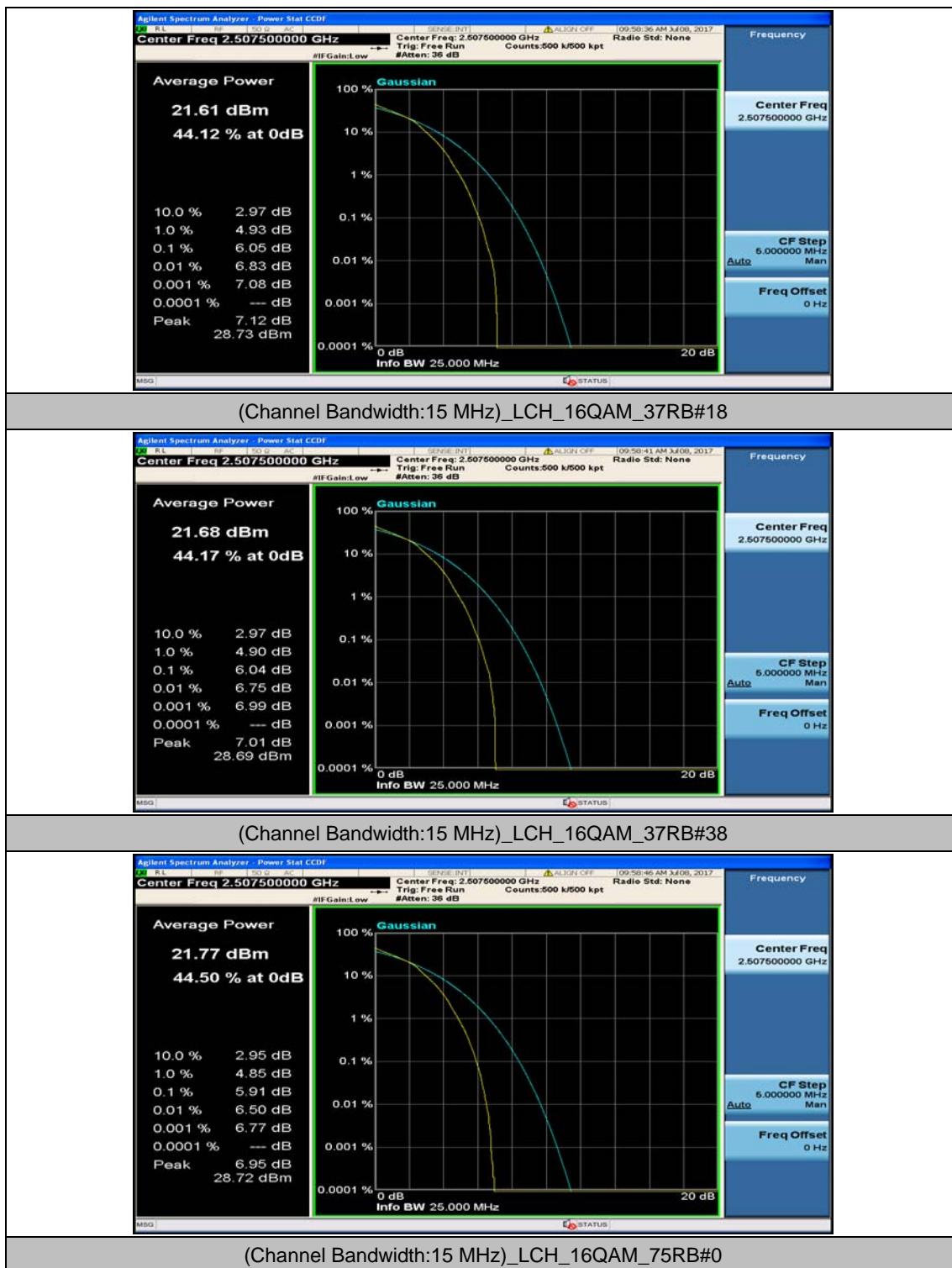


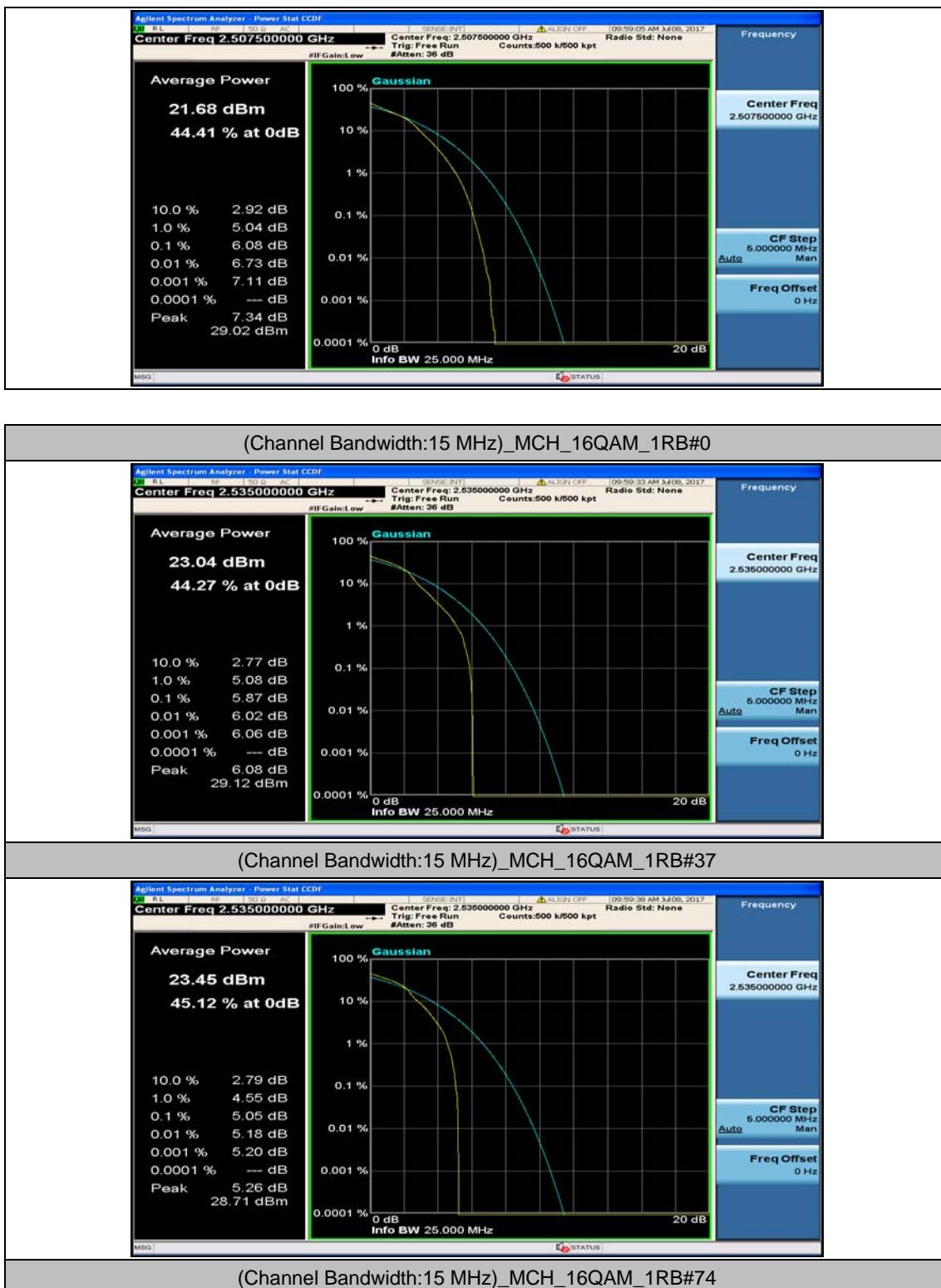


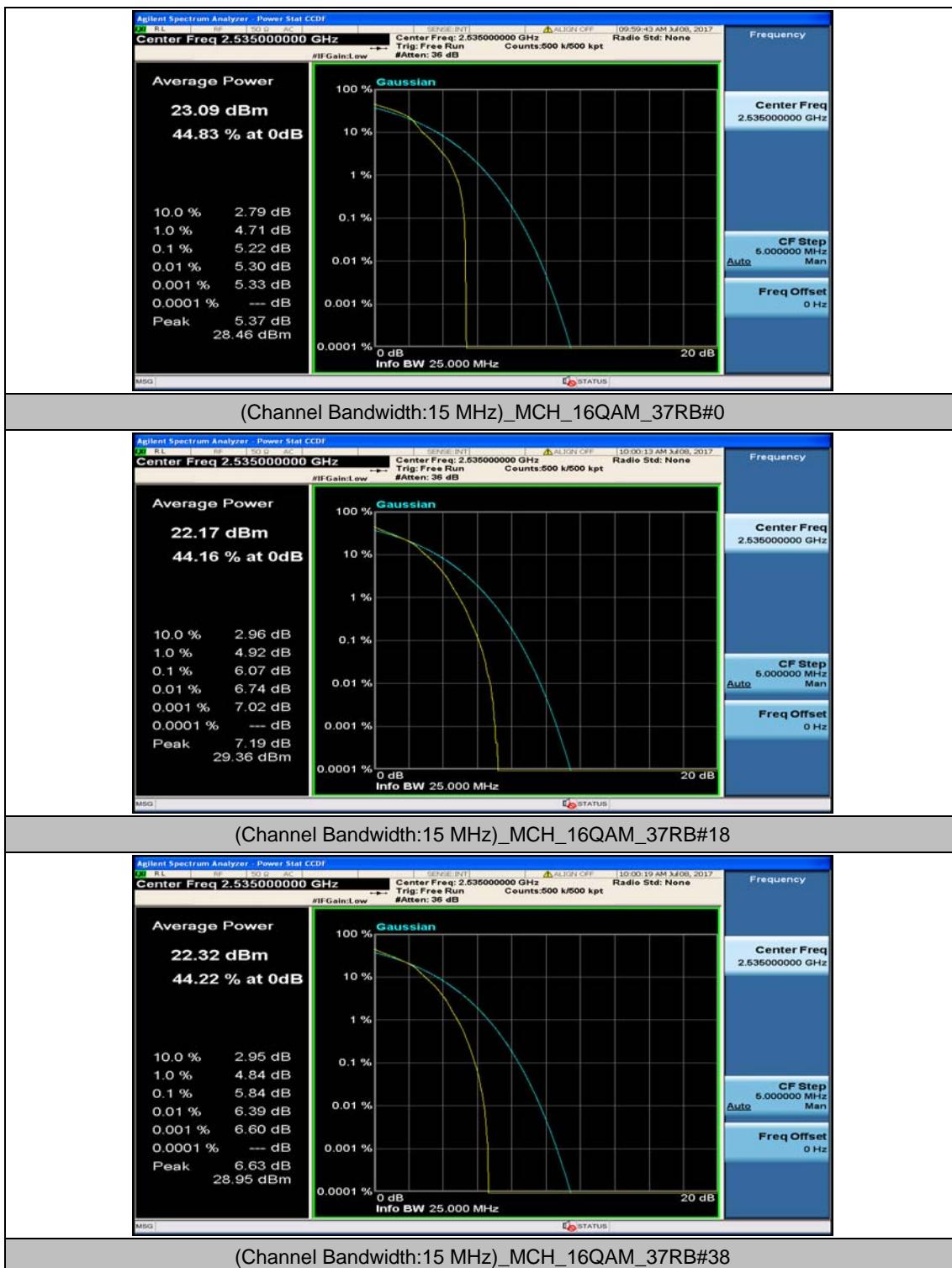


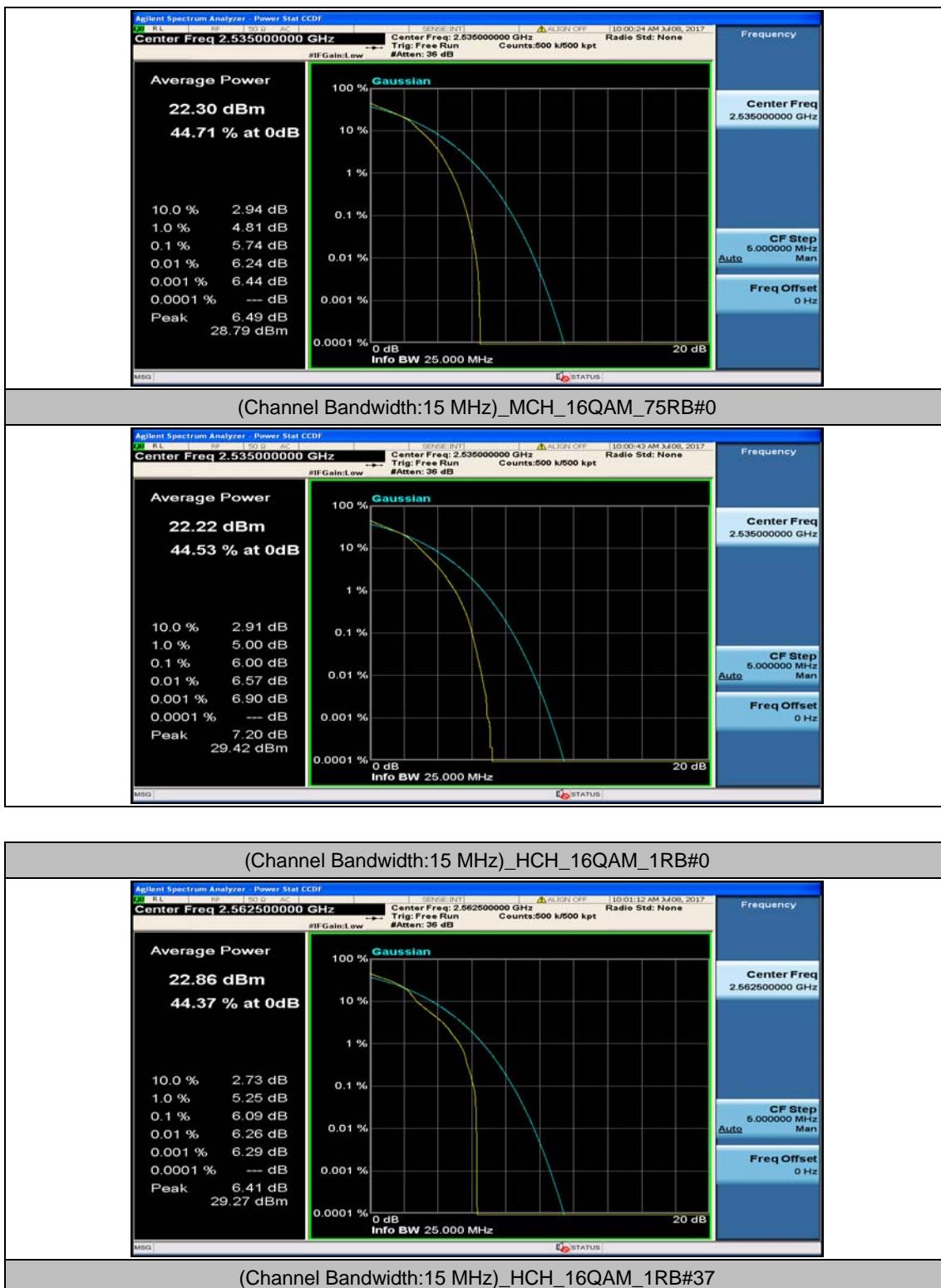


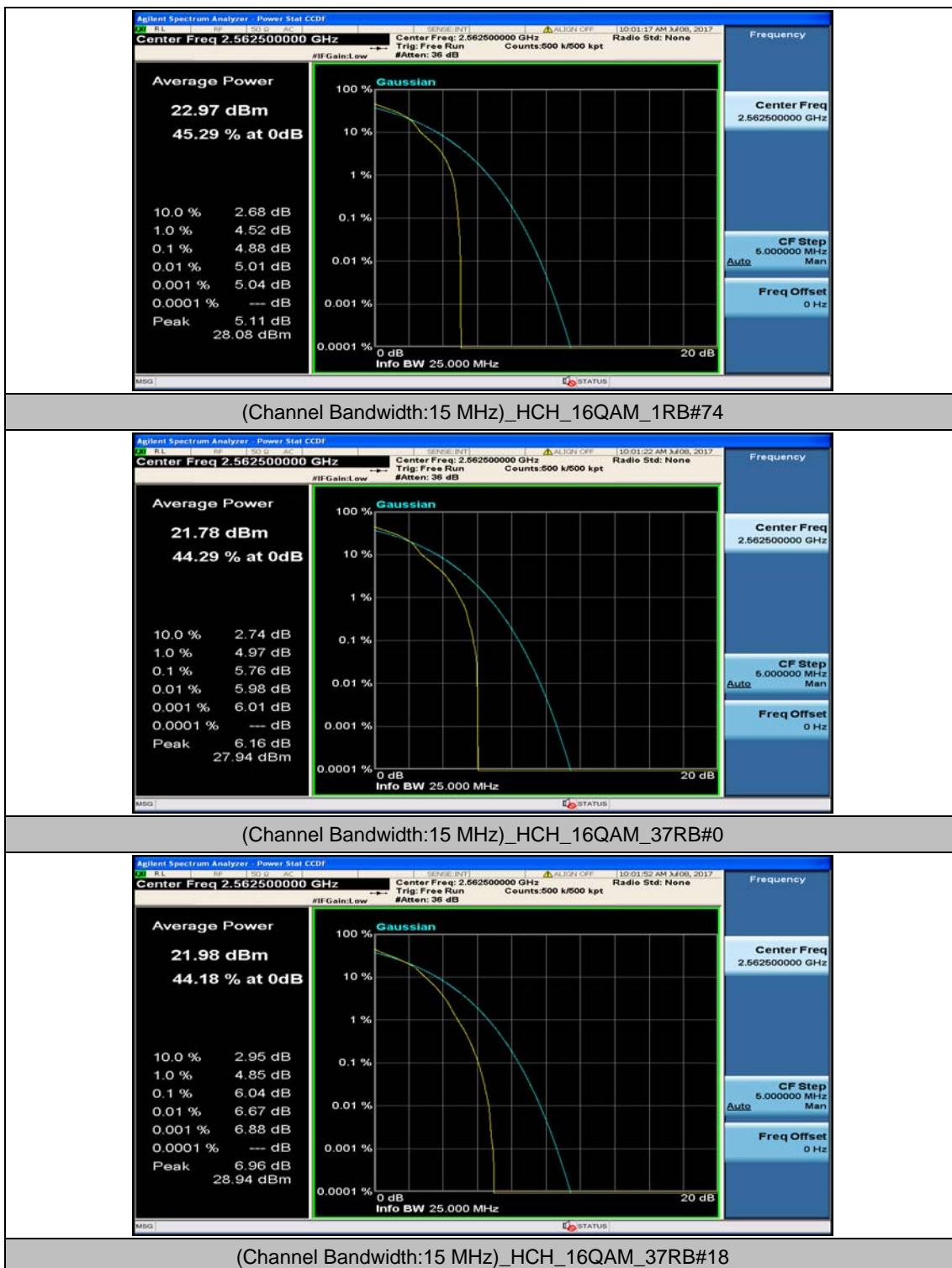


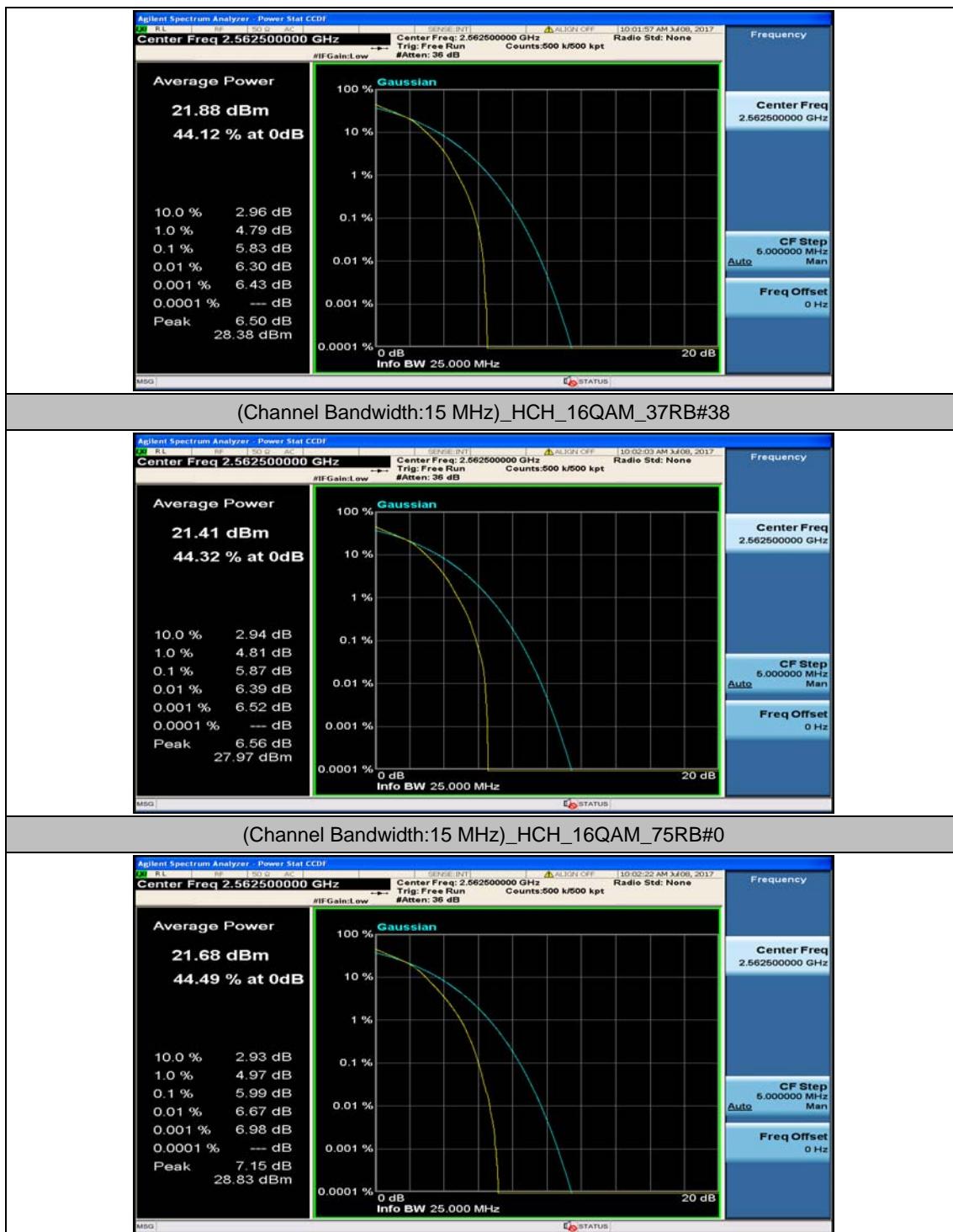












Channel Bandwidth: 20 MHz

