

Appendix for Band 17

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 | 22.60 | PASS |
| | | 1 | 12 | 22.46 | PASS |
| | | 1 | 24 | 22.39 | PASS |
| | | 12 | 0 | 21.42 | PASS |
| | | 12 | 6 | 21.44 | PASS |
| | | 12 | 13 | 21.46 | PASS |
| | | 25 | 0 | 21.94 | PASS |
| | MCH | 1 | 0 | 22.16 | PASS |
| | | 1 | 12 | 22.15 | PASS |
| | | 1 | 24 | 22.26 | PASS |
| | | 12 | 0 | 21.89 | PASS |
| | | 12 | 6 | 21.84 | PASS |
| | | 12 | 13 | 21.67 | PASS |
| | | 25 | 0 | 21.80 | PASS |
| 16QAM | HCH | 1 | 0 | 22.30 | PASS |
| | | 1 | 12 | 22.52 | PASS |
| | | 1 | 24 | 22.37 | PASS |
| | | 12 | 0 | 21.79 | PASS |
| | | 12 | 6 | 21.88 | PASS |
| | | 12 | 13 | 21.61 | PASS |
| | | 25 | 0 | 21.82 | PASS |
| | LCH | 1 | 0 | 21.86 | PASS |
| | | 1 | 12 | 21.79 | PASS |
| | | 1 | 24 | 21.68 | PASS |
| | | 12 | 0 | 20.98 | PASS |
| | | 12 | 6 | 20.82 | PASS |
| | | 12 | 13 | 20.76 | PASS |
| | | 25 | 0 | 20.53 | PASS |
| | MCH | 1 | 0 | 21.61 | PASS |
| | | 1 | 12 | 21.42 | PASS |
| | | 1 | 24 | 21.52 | PASS |
| | | 12 | 0 | 20.41 | PASS |

| | | | | | |
|-----|-----|----|----|-------|------|
| | | 12 | 6 | 20.45 | PASS |
| | | 12 | 13 | 20.68 | PASS |
| | | 25 | 0 | 20.36 | PASS |
| HCH | HCH | 1 | 0 | 21.32 | PASS |
| | | 1 | 12 | 21.50 | PASS |
| | | 1 | 24 | 21.24 | PASS |
| | | 12 | 0 | 20.73 | PASS |
| | | 12 | 6 | 20.64 | PASS |
| | | 12 | 13 | 20.64 | PASS |
| | | 25 | 0 | 20.80 | PASS |

Channel Bandwidth: 10 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 22.70 | PASS |
| | | 1 | 24 | 22.24 | PASS |
| | | 1 | 49 | 22.27 | PASS |
| | | 25 | 0 | 21.91 | PASS |
| | | 25 | 12 | 21.71 | PASS |
| | | 25 | 25 | 21.82 | PASS |
| | | 50 | 0 | 21.91 | PASS |
| | MCH | 1 | 0 | 22.57 | PASS |
| | | 1 | 24 | 22.41 | PASS |
| | | 1 | 49 | 22.37 | PASS |
| | | 25 | 0 | 21.77 | PASS |
| | | 25 | 12 | 21.77 | PASS |
| | | 25 | 25 | 21.80 | PASS |
| | | 50 | 0 | 21.82 | PASS |
| | HCH | 1 | 0 | 22.31 | PASS |
| | | 1 | 24 | 22.23 | PASS |
| | | 1 | 49 | 22.17 | PASS |
| | | 25 | 0 | 21.84 | PASS |
| | | 25 | 12 | 21.71 | PASS |
| | | 25 | 25 | 21.76 | PASS |
| | | 50 | 0 | 21.72 | PASS |
| 16QAM | LCH | 1 | 0 | 21.70 | PASS |
| | | 1 | 24 | 21.50 | PASS |
| | | 1 | 49 | 21.48 | PASS |
| | | 25 | 0 | 20.89 | PASS |
| | | 25 | 12 | 20.73 | PASS |
| | | 25 | 25 | 20.78 | PASS |
| | | 50 | 0 | 20.41 | PASS |

| | | | | | |
|--|-----|----|----|-------|------|
| | MCH | 1 | 0 | 21.48 | PASS |
| | | 1 | 24 | 21.35 | PASS |
| | | 1 | 49 | 21.30 | PASS |
| | | 25 | 0 | 20.89 | PASS |
| | | 25 | 12 | 20.51 | PASS |
| | | 25 | 25 | 20.85 | PASS |
| | | 50 | 0 | 20.87 | PASS |
| | HCH | 1 | 0 | 21.58 | PASS |
| | | 1 | 24 | 21.93 | PASS |
| | | 1 | 49 | 21.83 | PASS |
| | | 25 | 0 | 20.53 | PASS |
| | | 25 | 12 | 20.92 | PASS |
| | | 25 | 25 | 20.78 | PASS |
| | | 50 | 0 | 20.84 | 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 | 5.68 | <13 | PASS |
| | | 1 | 12 | 5.4 | <13 | PASS |
| | | 1 | 24 | 5.29 | <13 | PASS |
| | | 12 | 0 | 5.57 | <13 | PASS |
| | | 12 | 6 | 5.55 | <13 | PASS |
| | | 12 | 13 | 5.49 | <13 | PASS |
| | | 25 | 0 | 5.57 | <13 | PASS |
| | MCH | 1 | 0 | 5.22 | <13 | PASS |
| | | 1 | 12 | 5.24 | <13 | PASS |
| | | 1 | 24 | 5.22 | <13 | PASS |
| | | 12 | 0 | 5.5 | <13 | PASS |
| | | 12 | 6 | 5.52 | <13 | PASS |
| | | 12 | 13 | 5.52 | <13 | PASS |
| | | 25 | 0 | 5.57 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 5.5 | <13 | PASS |
| | | 1 | 12 | 5.64 | <13 | PASS |
| | | 1 | 24 | 5.78 | <13 | PASS |
| | | 12 | 0 | 5.6 | <13 | PASS |
| | | 12 | 6 | 5.6 | <13 | PASS |
| | | 12 | 13 | 5.77 | <13 | PASS |
| | | 25 | 0 | 5.66 | <13 | PASS |
| | MCH | 1 | 0 | 6.12 | <13 | PASS |
| | | 1 | 12 | 5.81 | <13 | PASS |
| | | 1 | 24 | 5.79 | <13 | PASS |
| | | 12 | 0 | 6.43 | <13 | PASS |
| | | 12 | 6 | 6.4 | <13 | PASS |
| | | 12 | 13 | 6.39 | <13 | PASS |
| | | 25 | 0 | 6.52 | <13 | PASS |

| | | | | | | |
|-----|--|----|----|------|-----|------|
| | | 12 | 6 | 6.38 | <13 | PASS |
| | | 12 | 13 | 6.54 | <13 | PASS |
| | | 25 | 0 | 6.19 | <13 | PASS |
| HCH | | 1 | 0 | 6.25 | <13 | PASS |
| | | 1 | 12 | 6.37 | <13 | PASS |
| | | 1 | 24 | 6.36 | <13 | PASS |
| | | 12 | 0 | 6.5 | <13 | PASS |
| | | 12 | 6 | 6.68 | <13 | PASS |
| | | 12 | 13 | 6.66 | <13 | PASS |
| | | 25 | 0 | 6.43 | <13 | PASS |

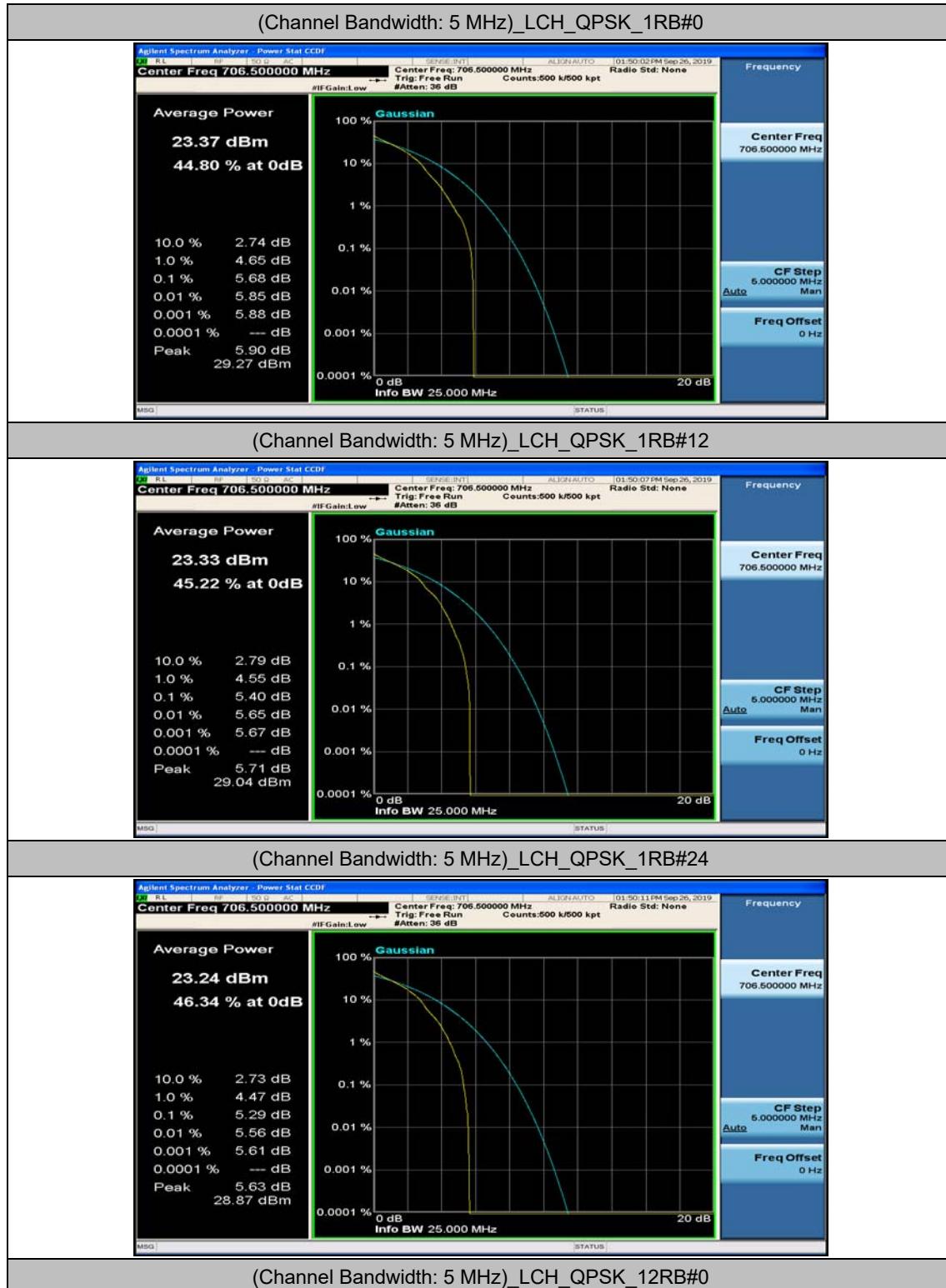
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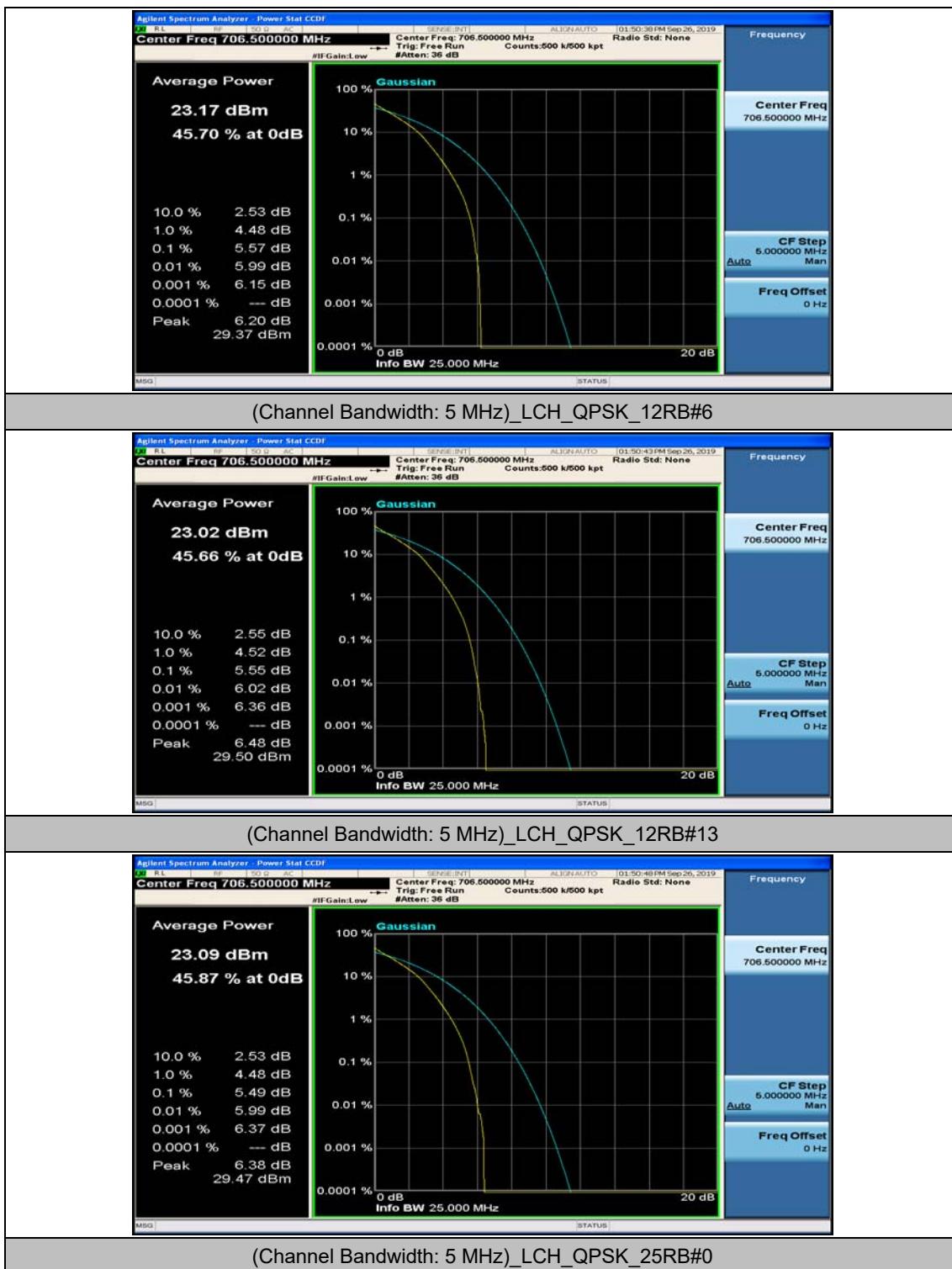
| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 5.54 | <13 | PASS |
| | | 1 | 24 | 5.4 | <13 | PASS |
| | | 1 | 49 | 5.38 | <13 | PASS |
| | | 25 | 0 | 5.73 | <13 | PASS |
| | | 25 | 12 | 5.57 | <13 | PASS |
| | | 25 | 25 | 5.65 | <13 | PASS |
| | | 50 | 0 | 5.66 | <13 | PASS |
| | MCH | 1 | 0 | 5.21 | <13 | PASS |
| | | 1 | 24 | 5.07 | <13 | PASS |
| | | 1 | 49 | 5.31 | <13 | PASS |
| | | 25 | 0 | 5.64 | <13 | PASS |
| | | 25 | 12 | 5.6 | <13 | PASS |
| | | 25 | 25 | 5.63 | <13 | PASS |
| | | 50 | 0 | 5.75 | <13 | PASS |
| | HCH | 1 | 0 | 5.3 | <13 | PASS |
| | | 1 | 24 | 5.26 | <13 | PASS |
| | | 1 | 49 | 5.47 | <13 | PASS |
| | | 25 | 0 | 5.5 | <13 | PASS |
| | | 25 | 12 | 5.6 | <13 | PASS |
| | | 25 | 25 | 5.57 | <13 | PASS |
| | | 50 | 0 | 5.74 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 5.92 | <13 | PASS |
| | | 1 | 24 | 5.71 | <13 | PASS |
| | | 1 | 49 | 5.91 | <13 | PASS |
| | | 25 | 0 | 6.46 | <13 | PASS |
| | | 25 | 12 | 6.37 | <13 | PASS |

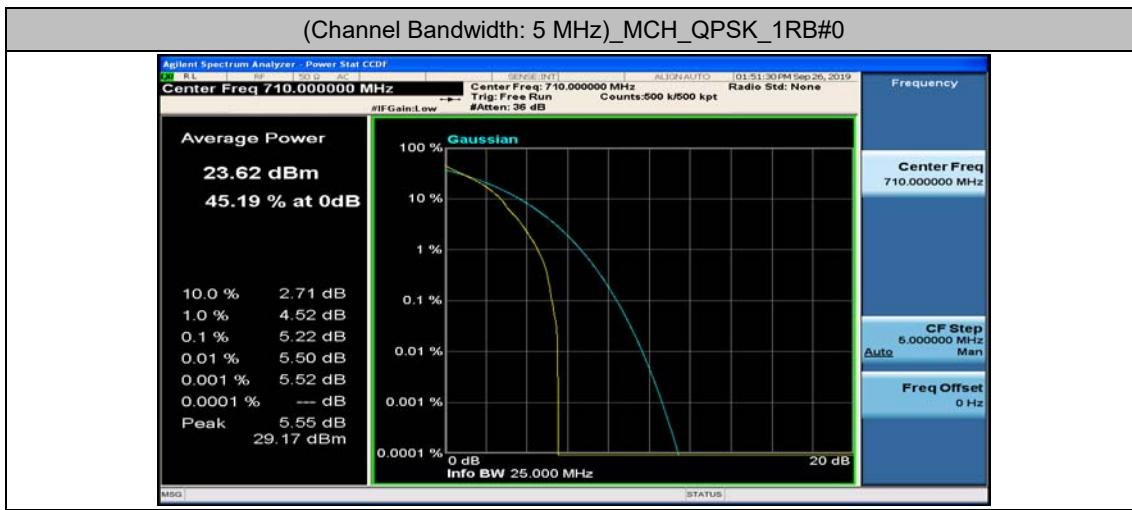
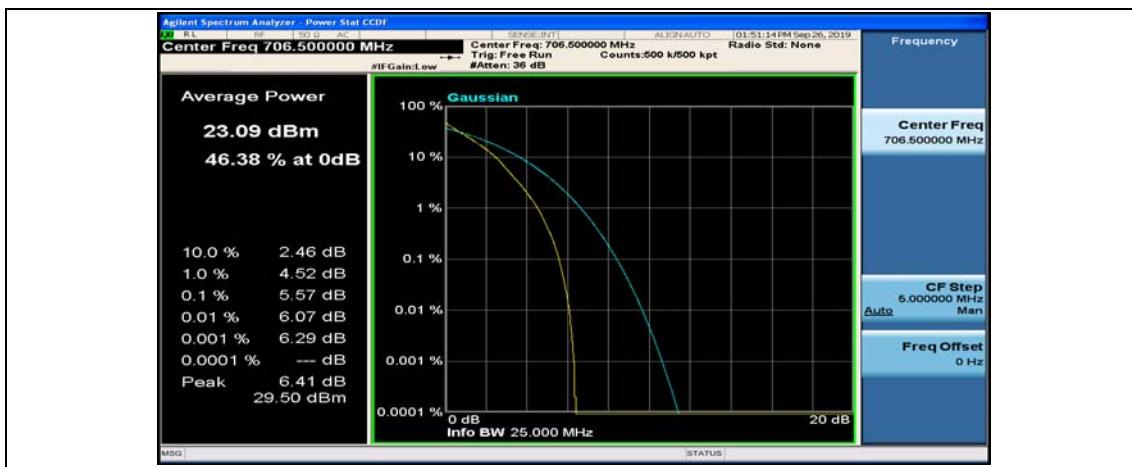
| | | | | | | |
|-----|----|----|----|------|-----|------|
| | | 25 | 25 | 6.57 | <13 | PASS |
| | | 50 | 0 | 6.36 | <13 | PASS |
| MCH | 1 | 0 | | 5.87 | <13 | PASS |
| | 1 | 24 | | 5.82 | <13 | PASS |
| | 1 | 49 | | 6.04 | <13 | PASS |
| | 25 | 0 | | 6.47 | <13 | PASS |
| | 25 | 12 | | 6.47 | <13 | PASS |
| | 25 | 25 | | 6.54 | <13 | PASS |
| | 50 | 0 | | 6.44 | <13 | PASS |
| HCH | 1 | 0 | | 6.05 | <13 | PASS |
| | 1 | 24 | | 6.09 | <13 | PASS |
| | 1 | 49 | | 6.34 | <13 | PASS |
| | 25 | 0 | | 6.44 | <13 | PASS |
| | 25 | 12 | | 6.53 | <13 | PASS |
| | 25 | 25 | | 6.54 | <13 | PASS |
| | 50 | 0 | | 6.5 | <13 | PASS |

Test Graphs

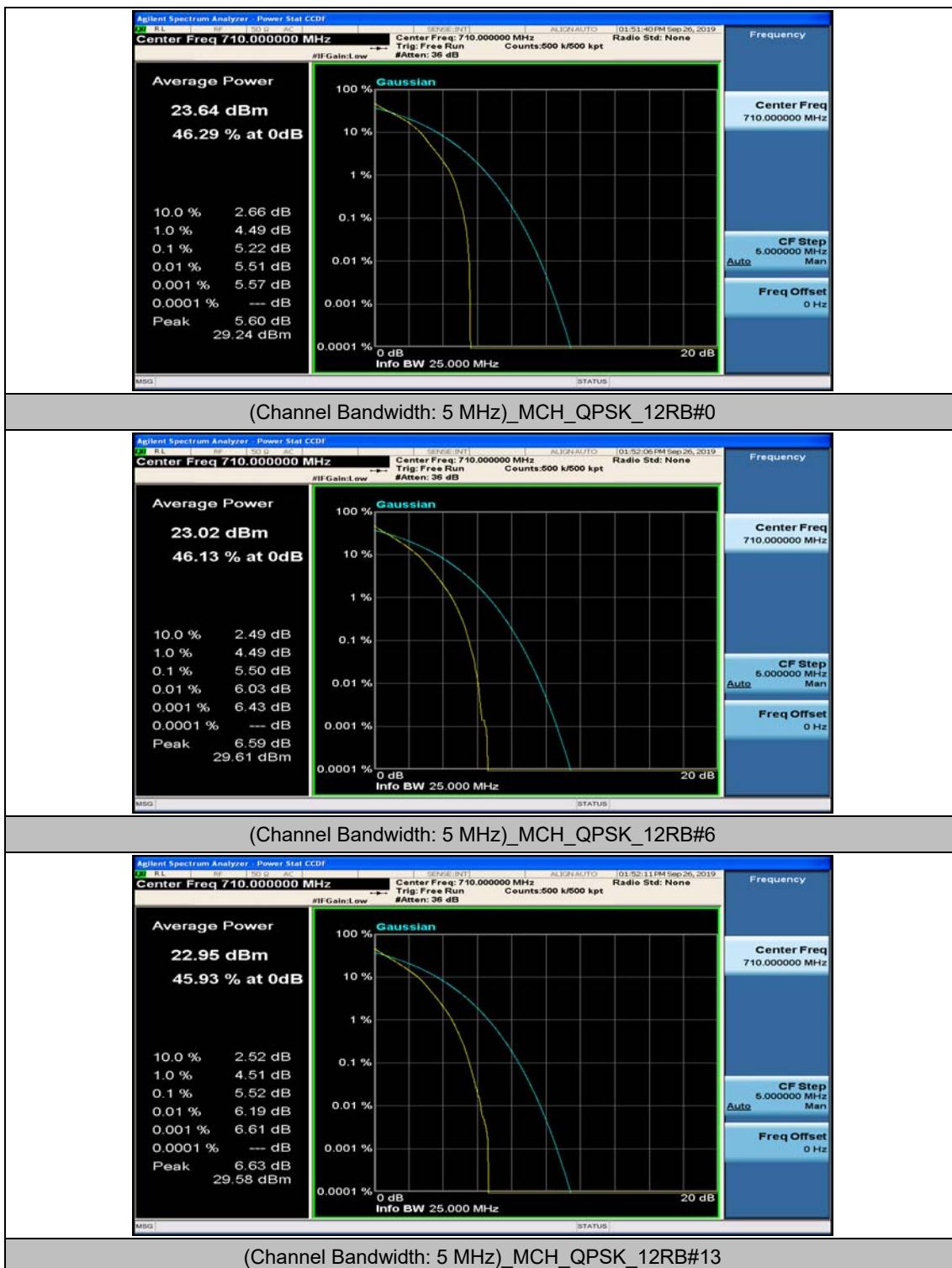
Channel Bandwidth: 5 MHz

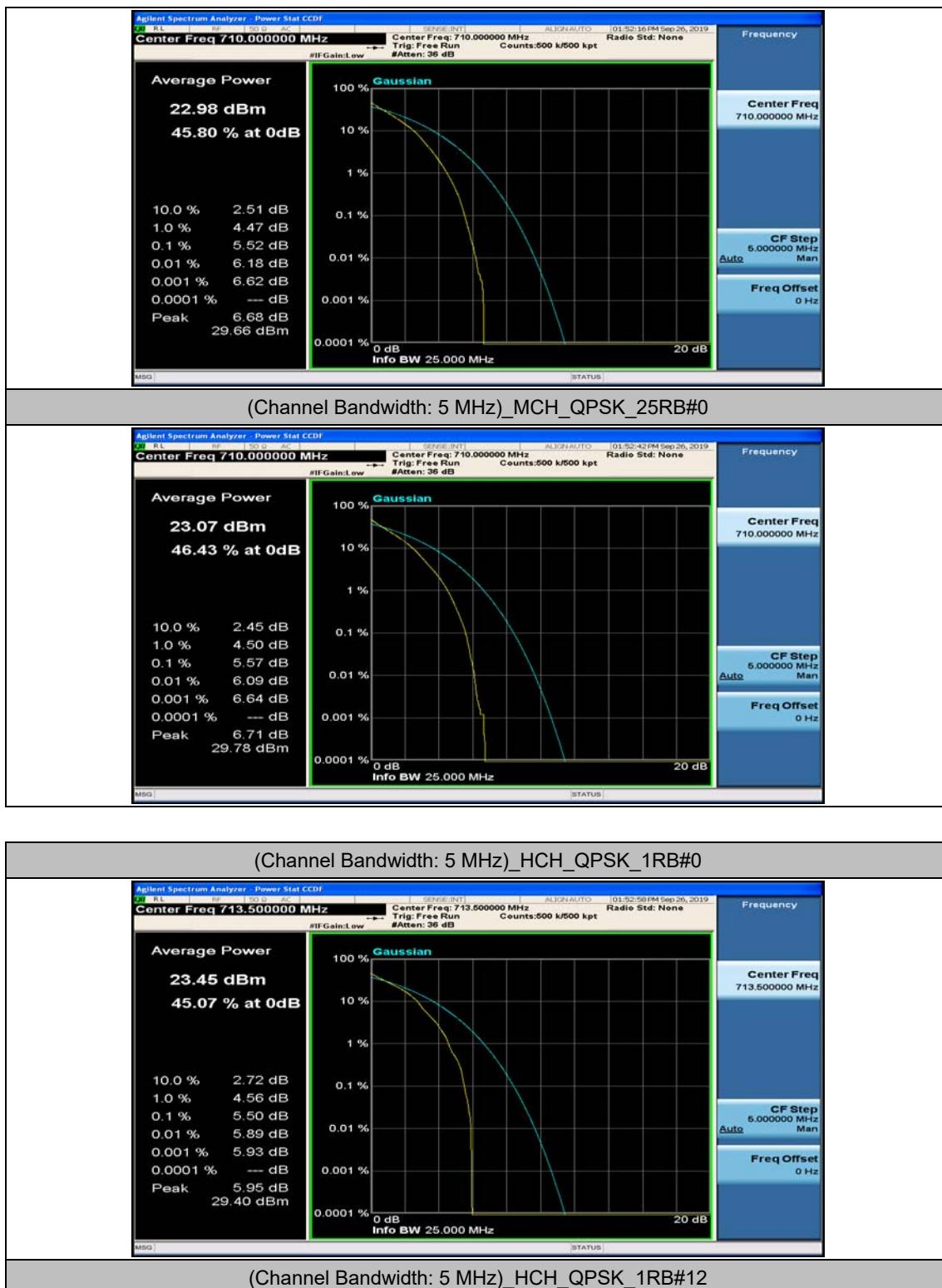


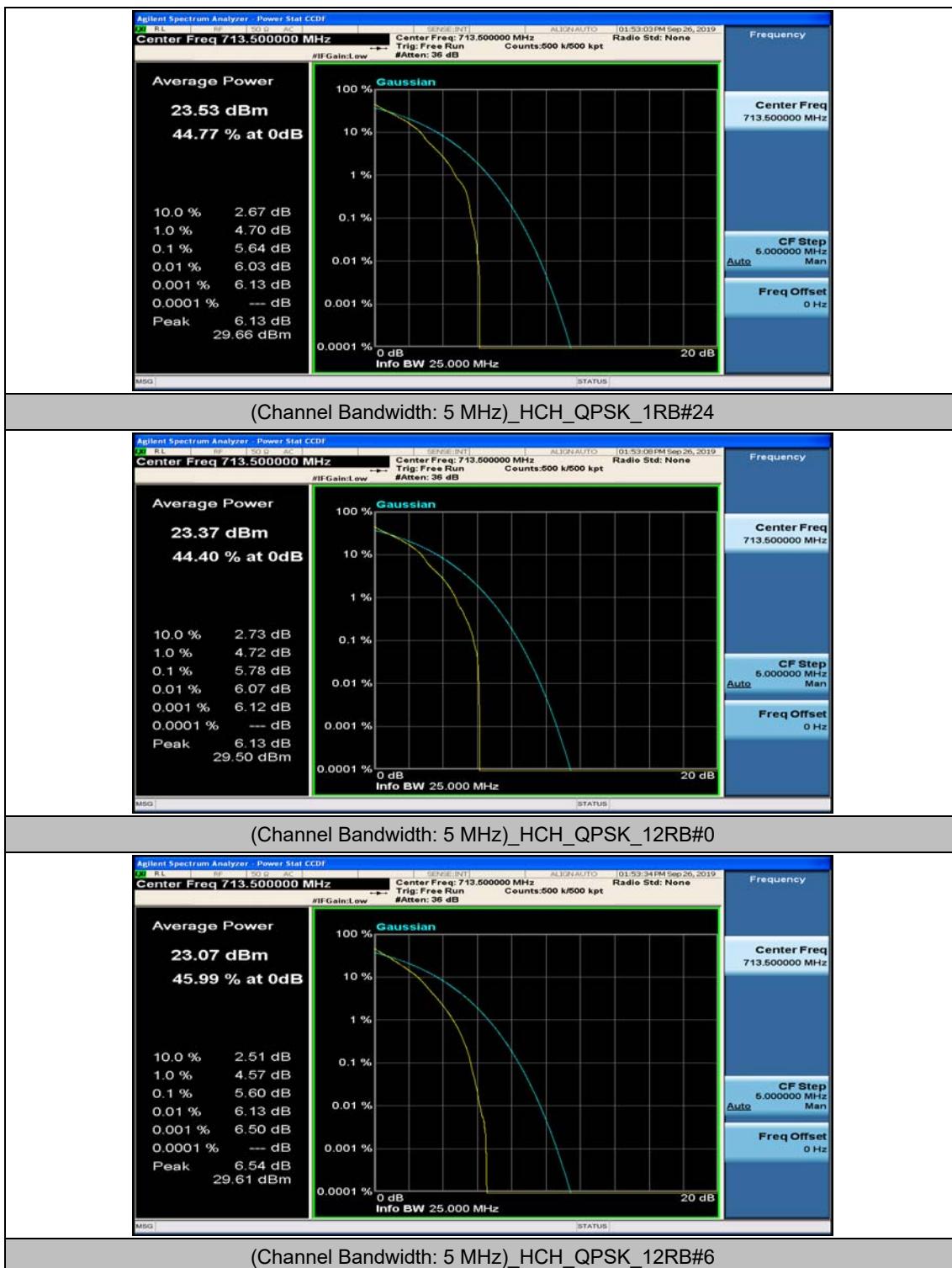


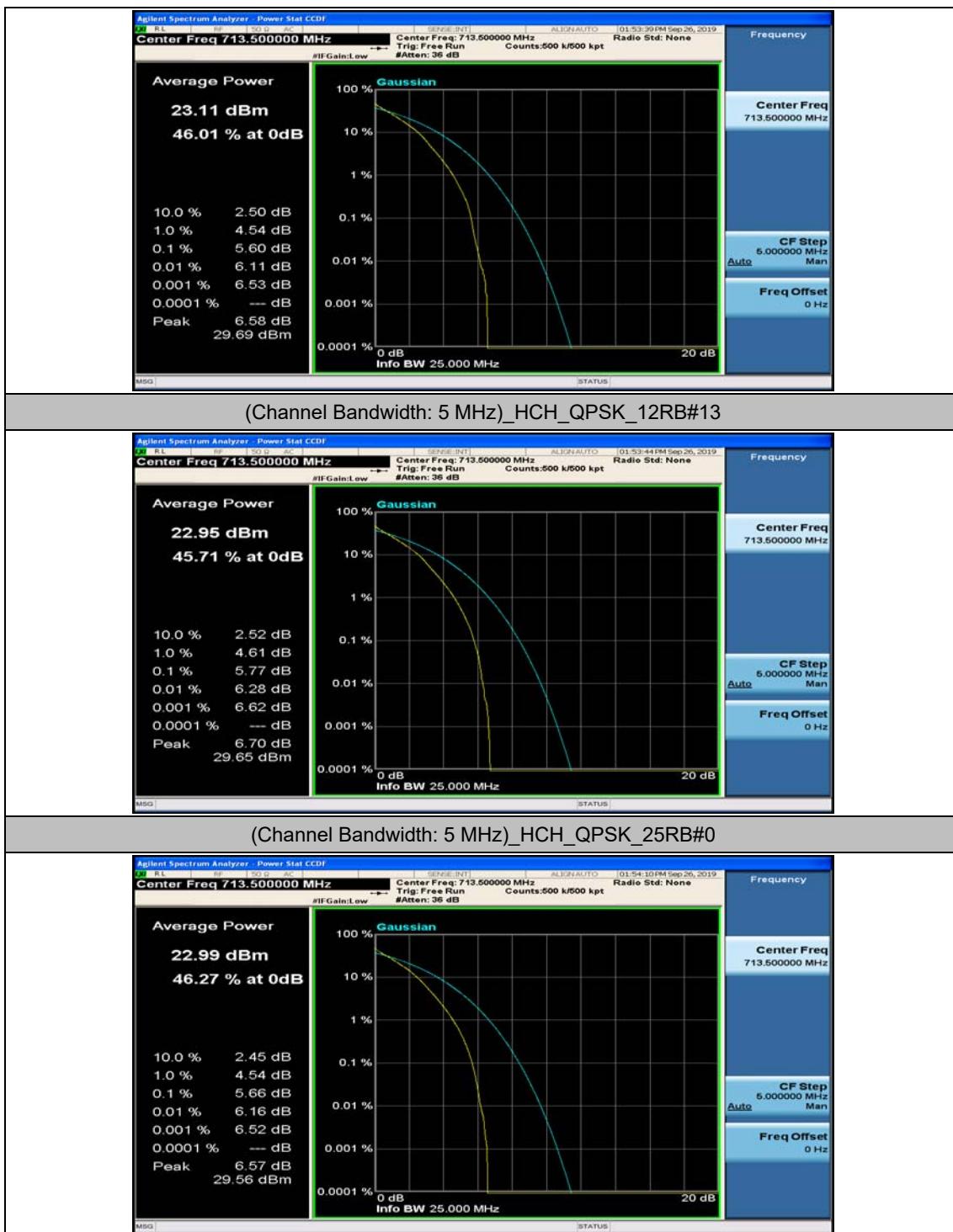


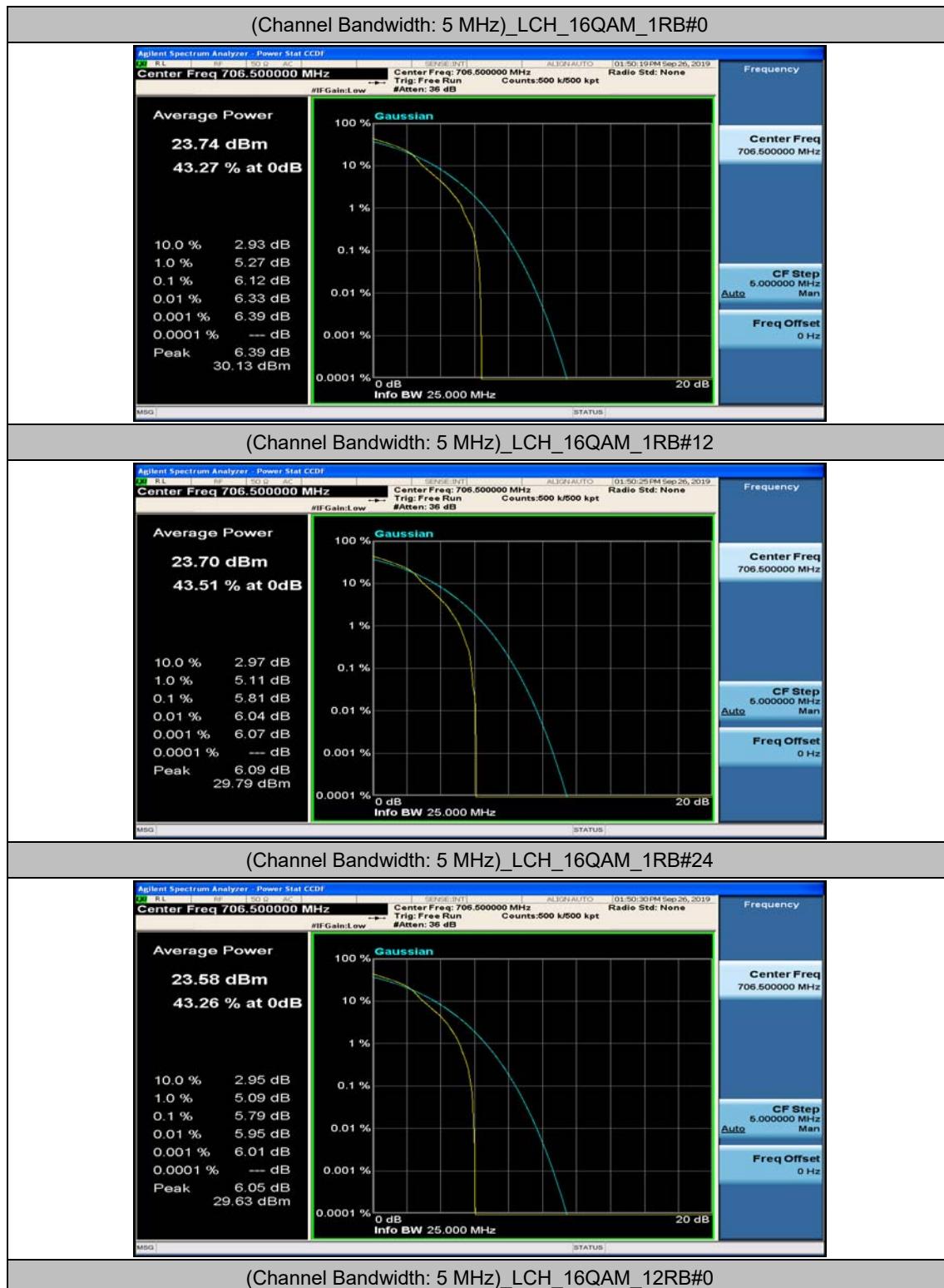
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

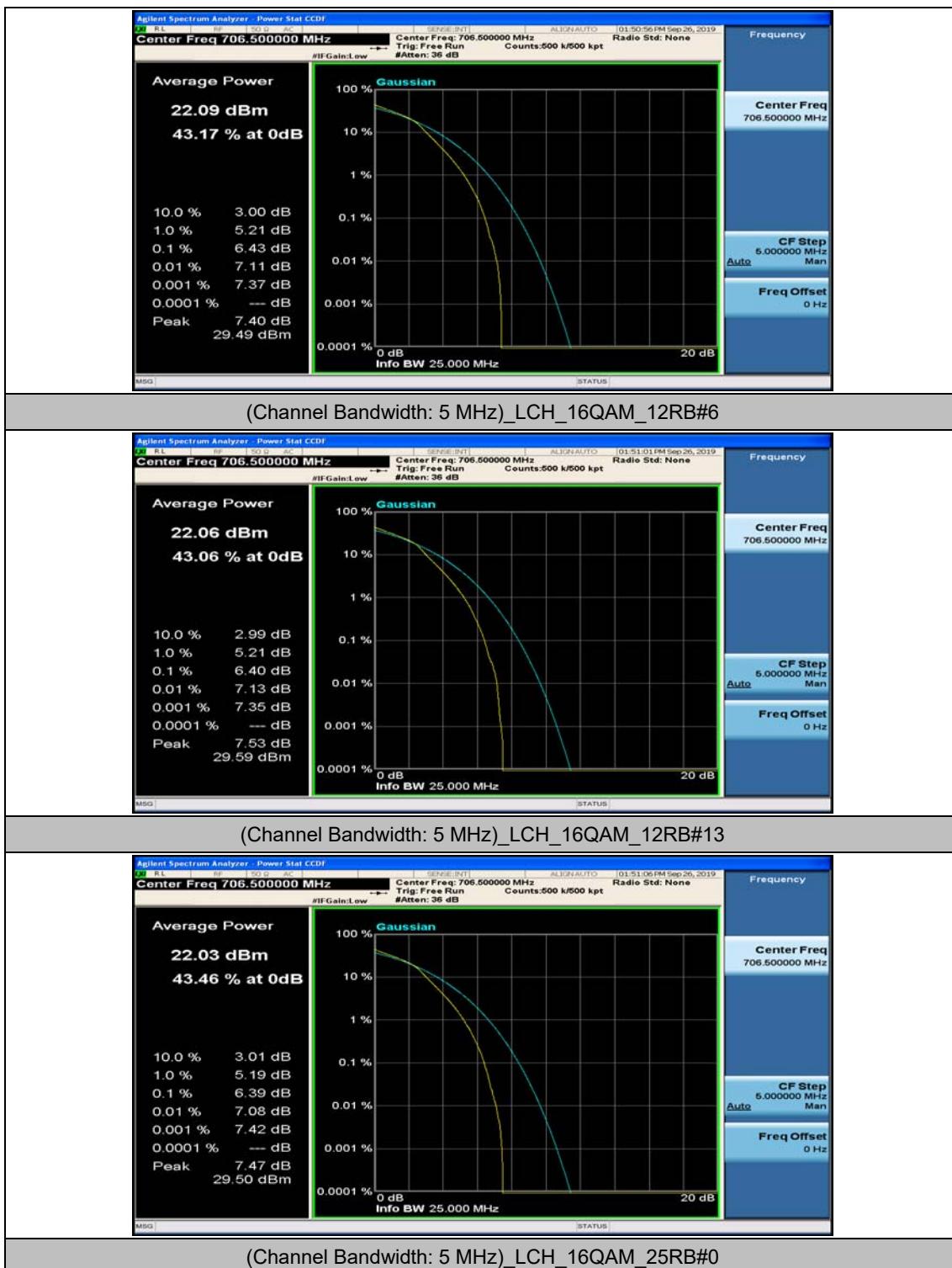


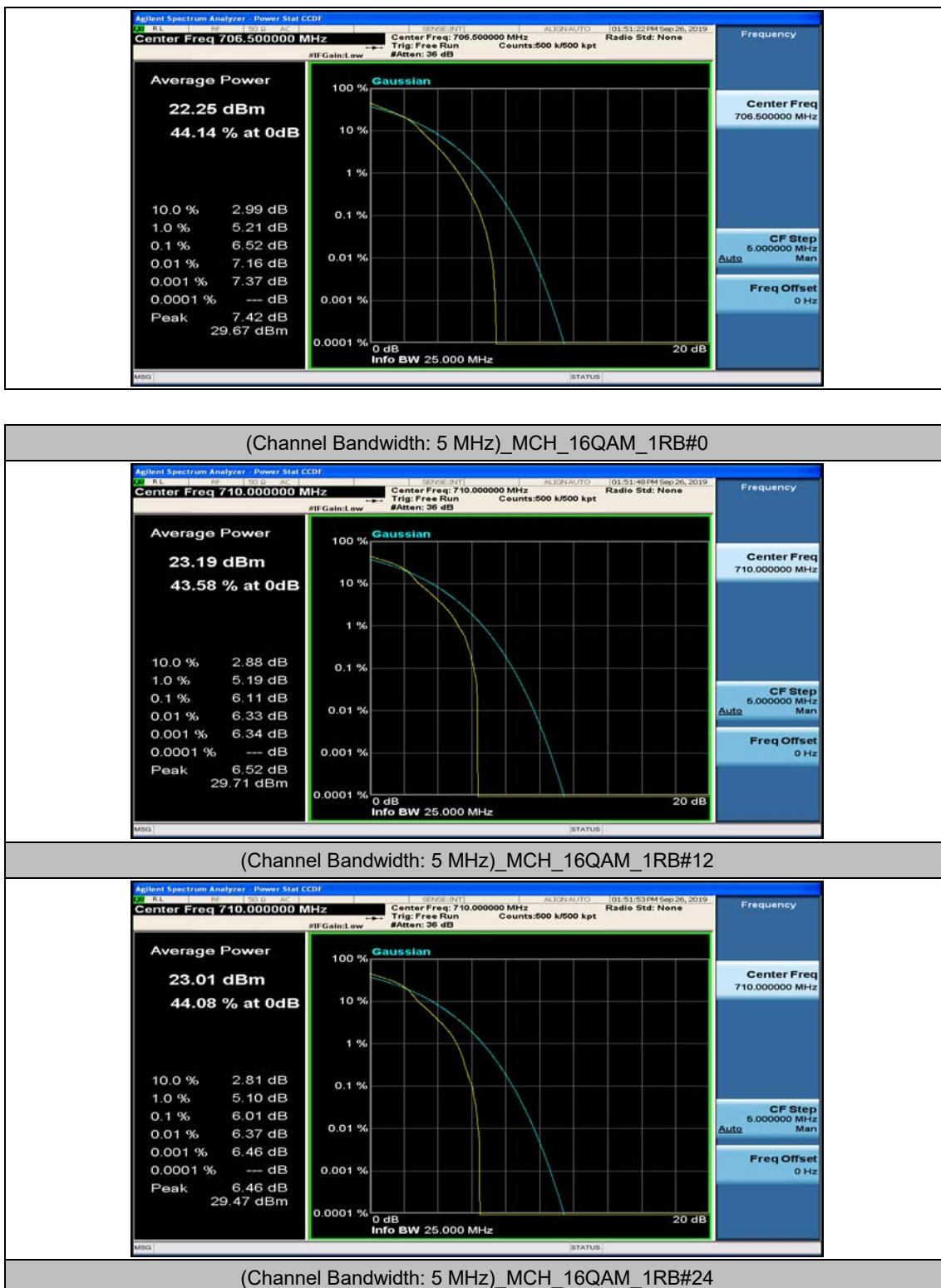


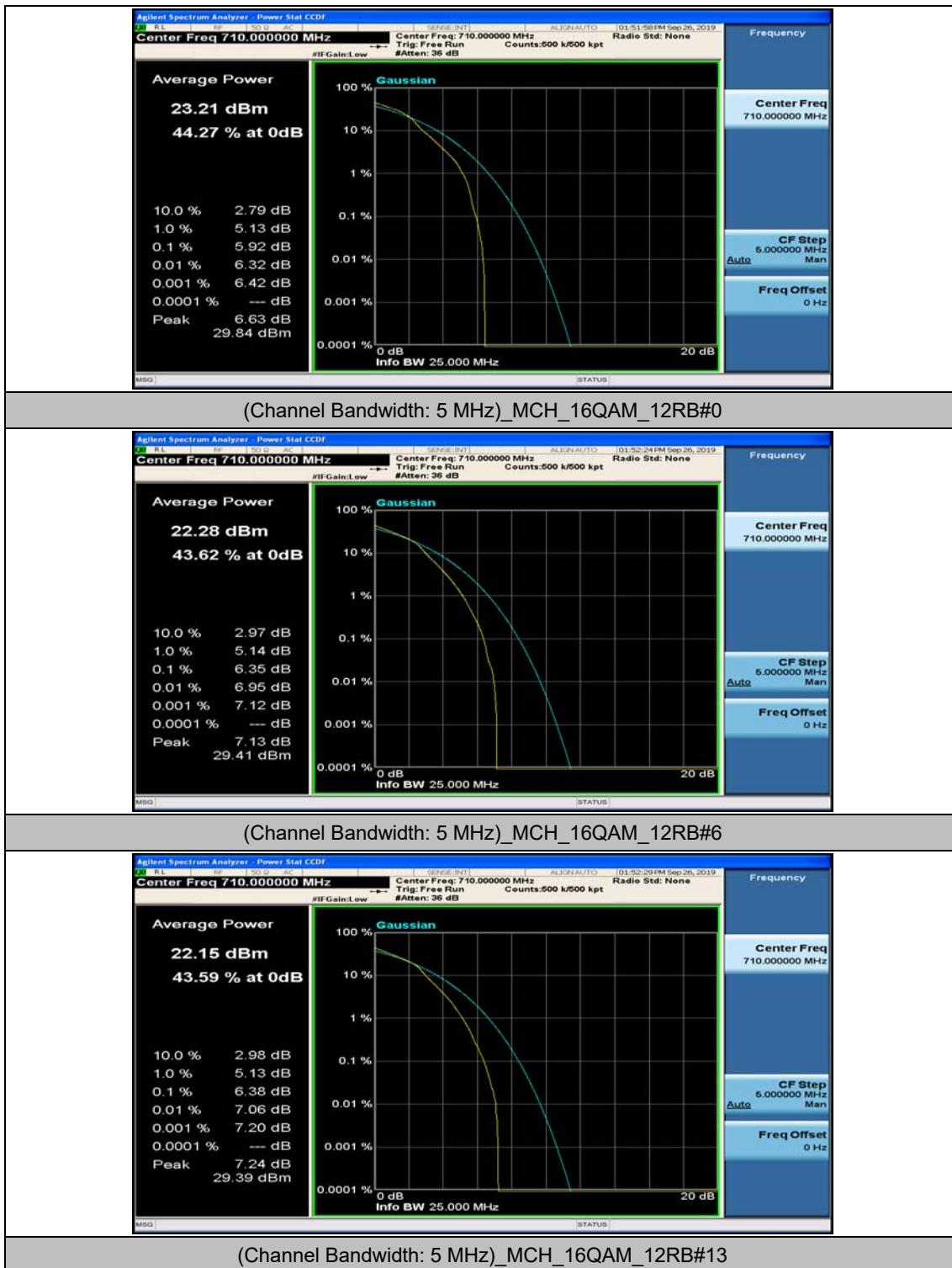


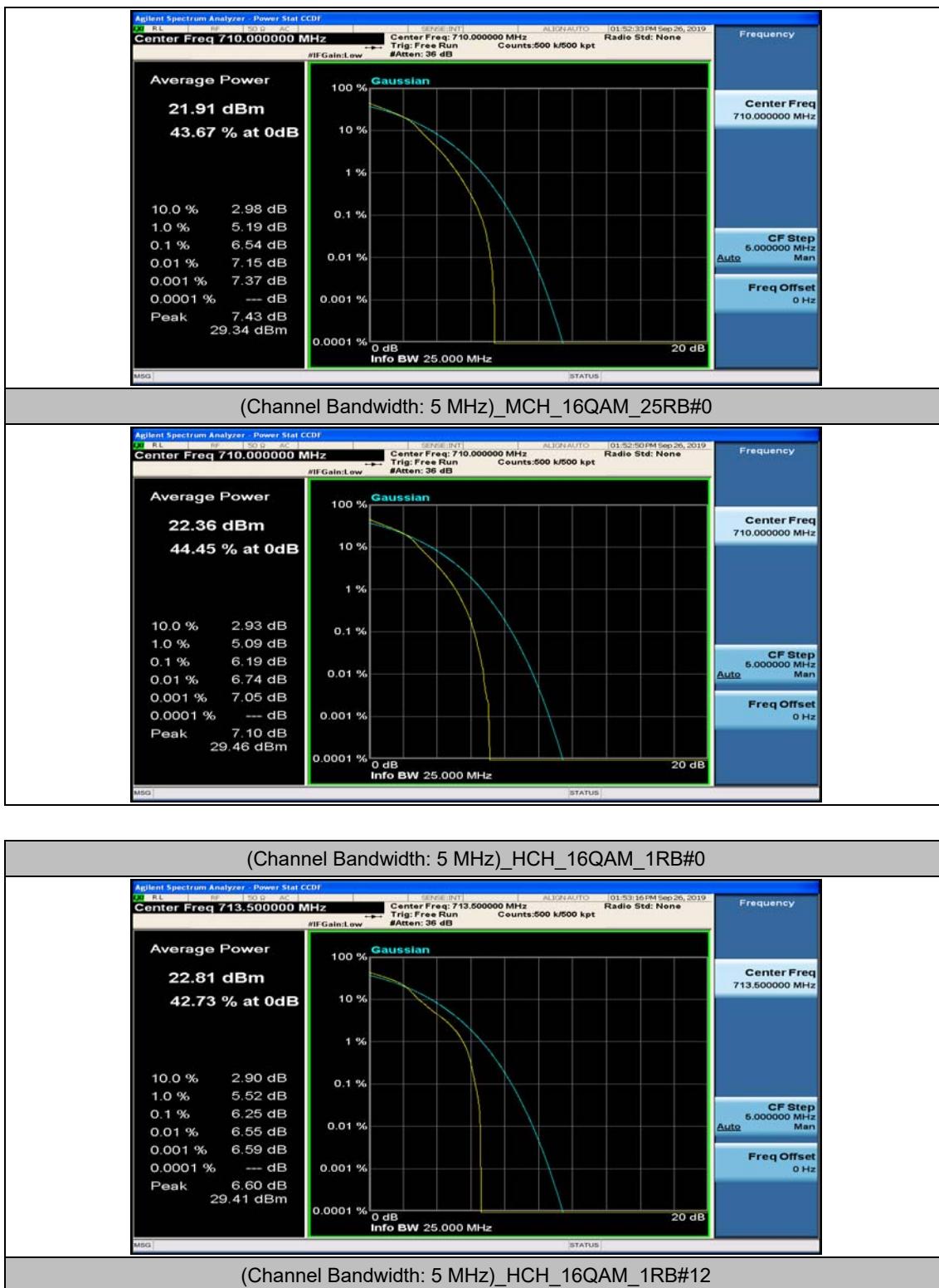


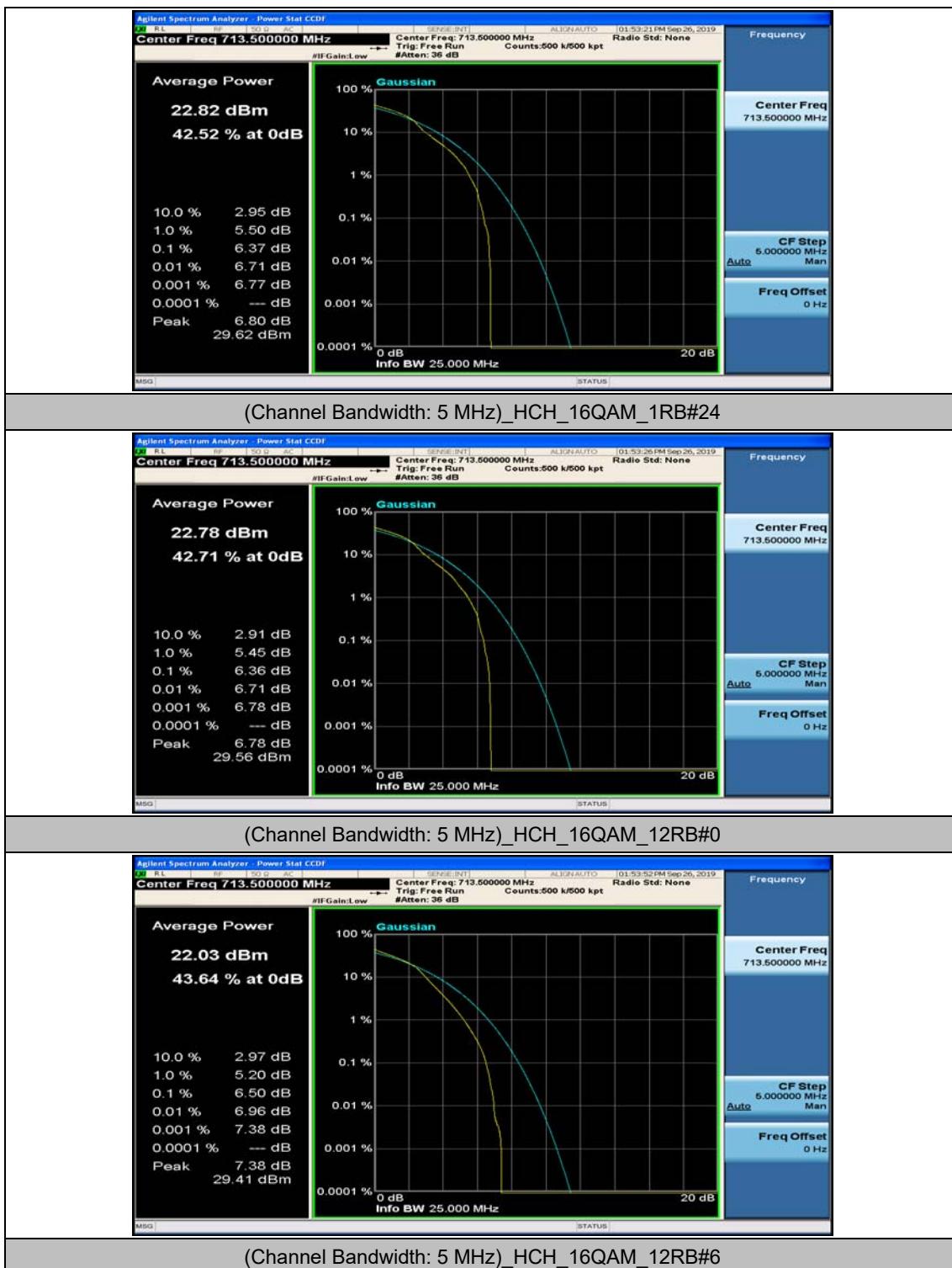


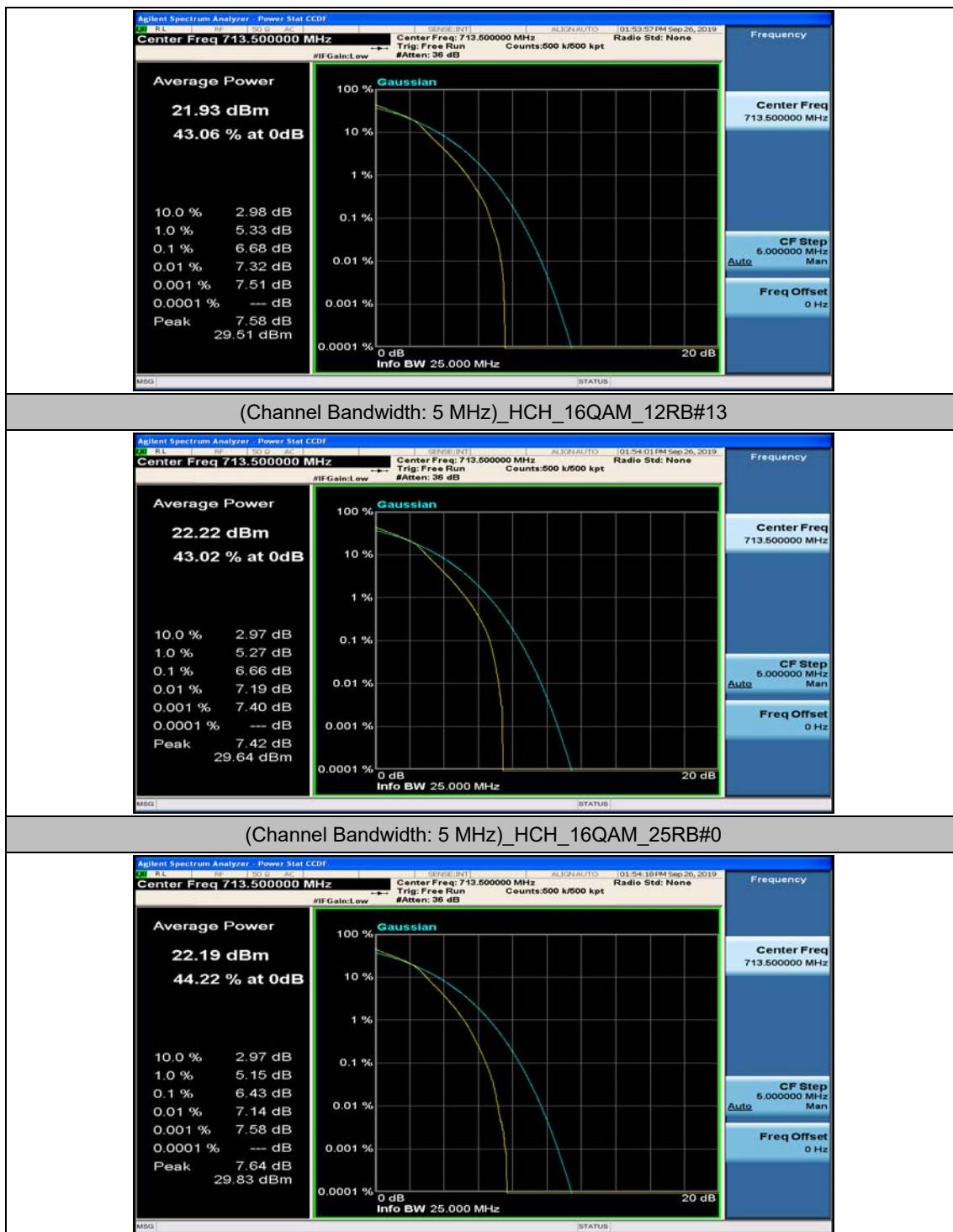




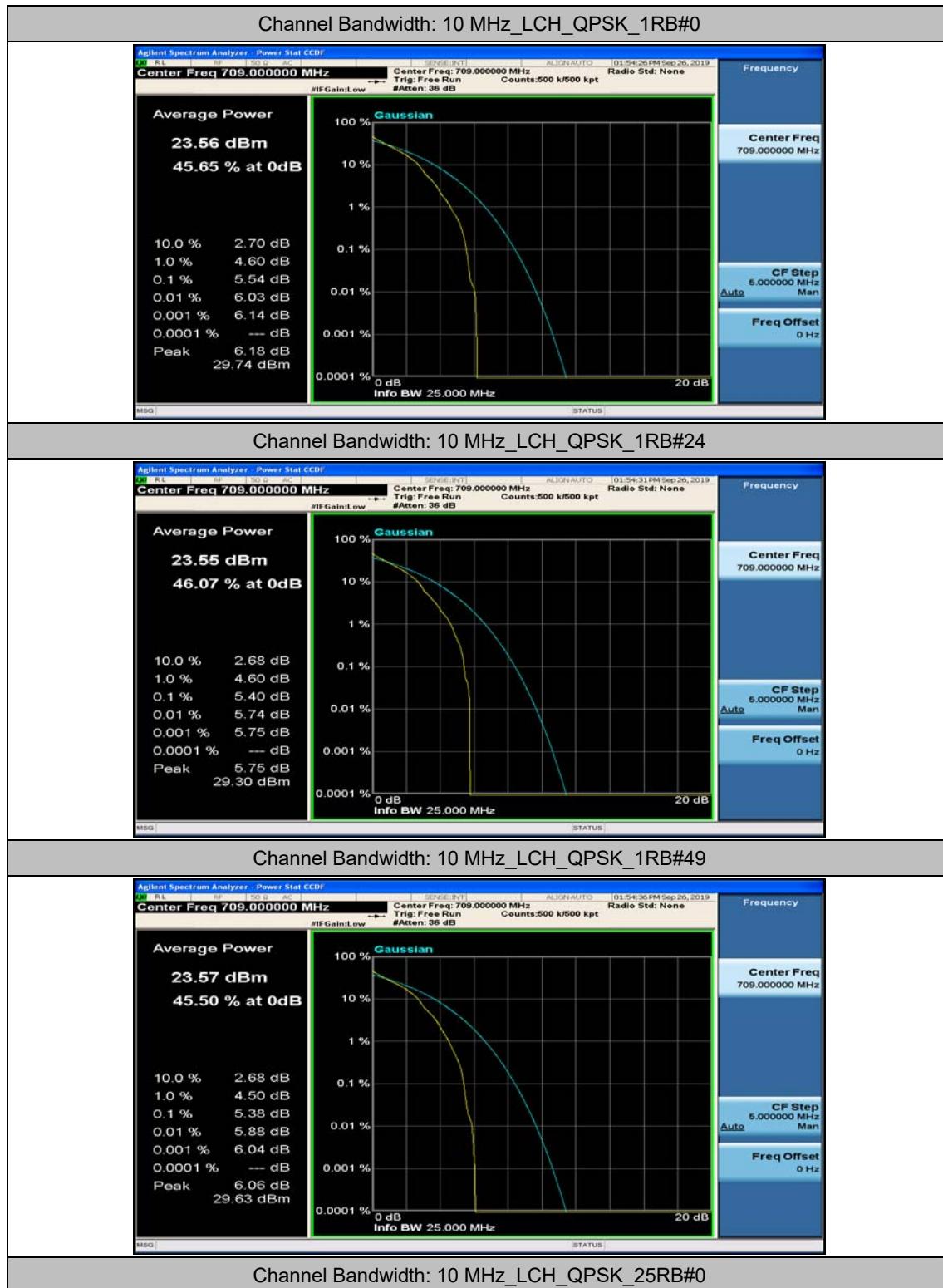


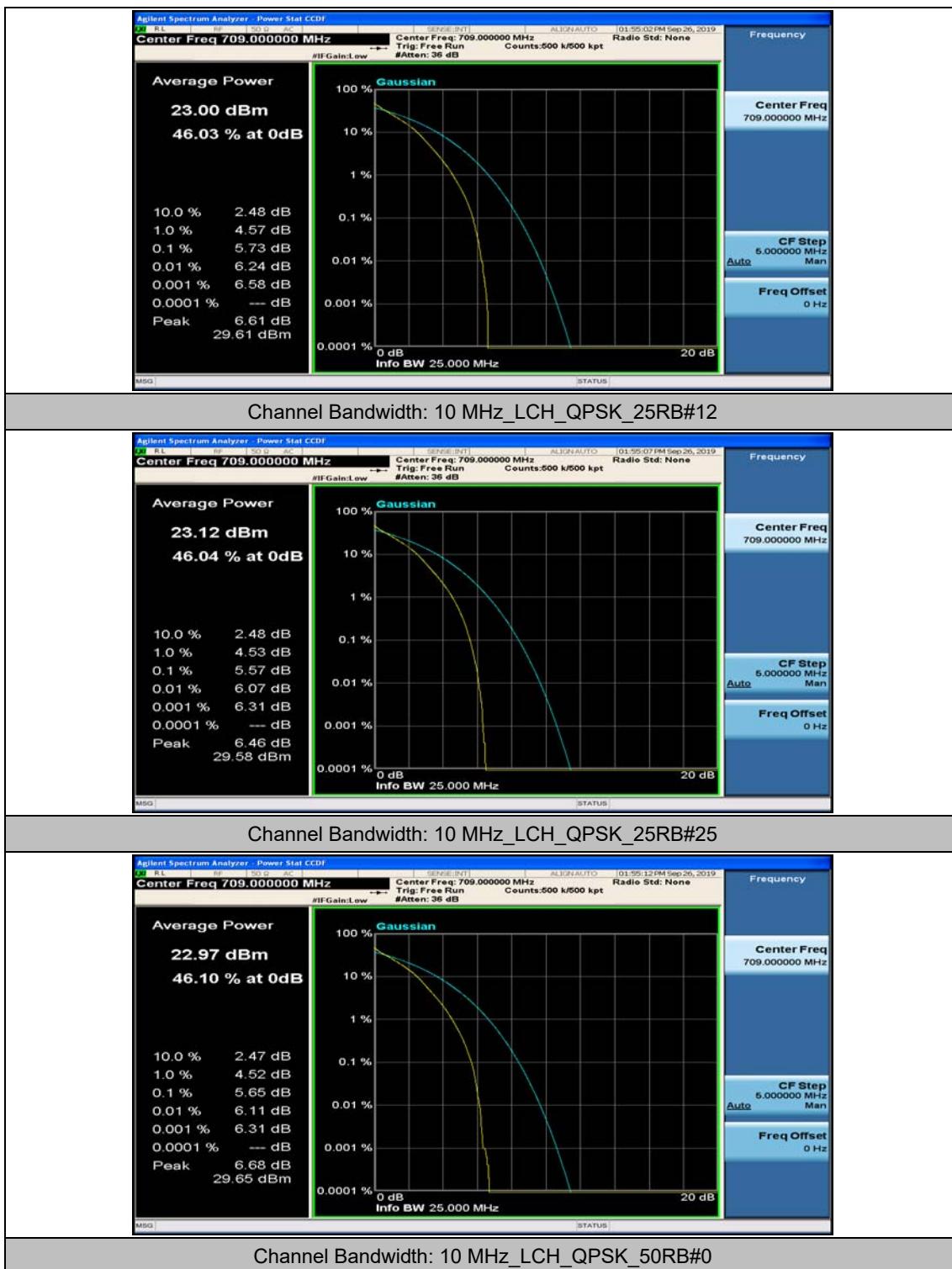


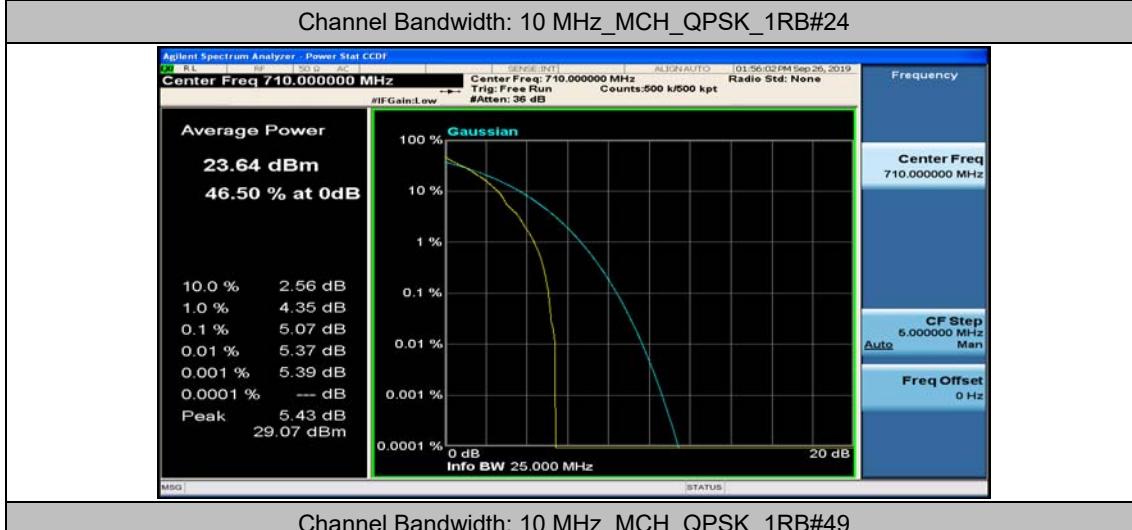
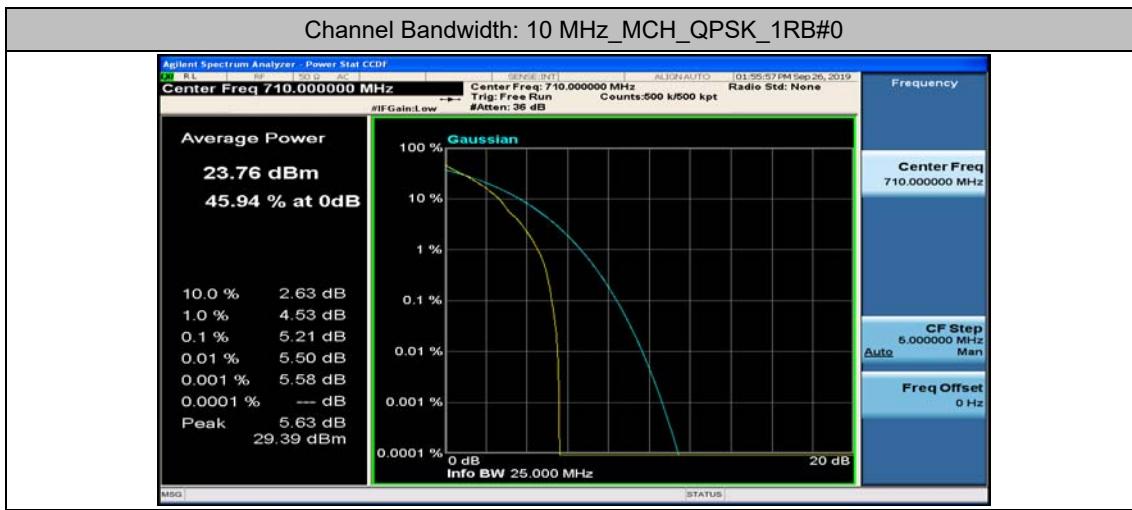




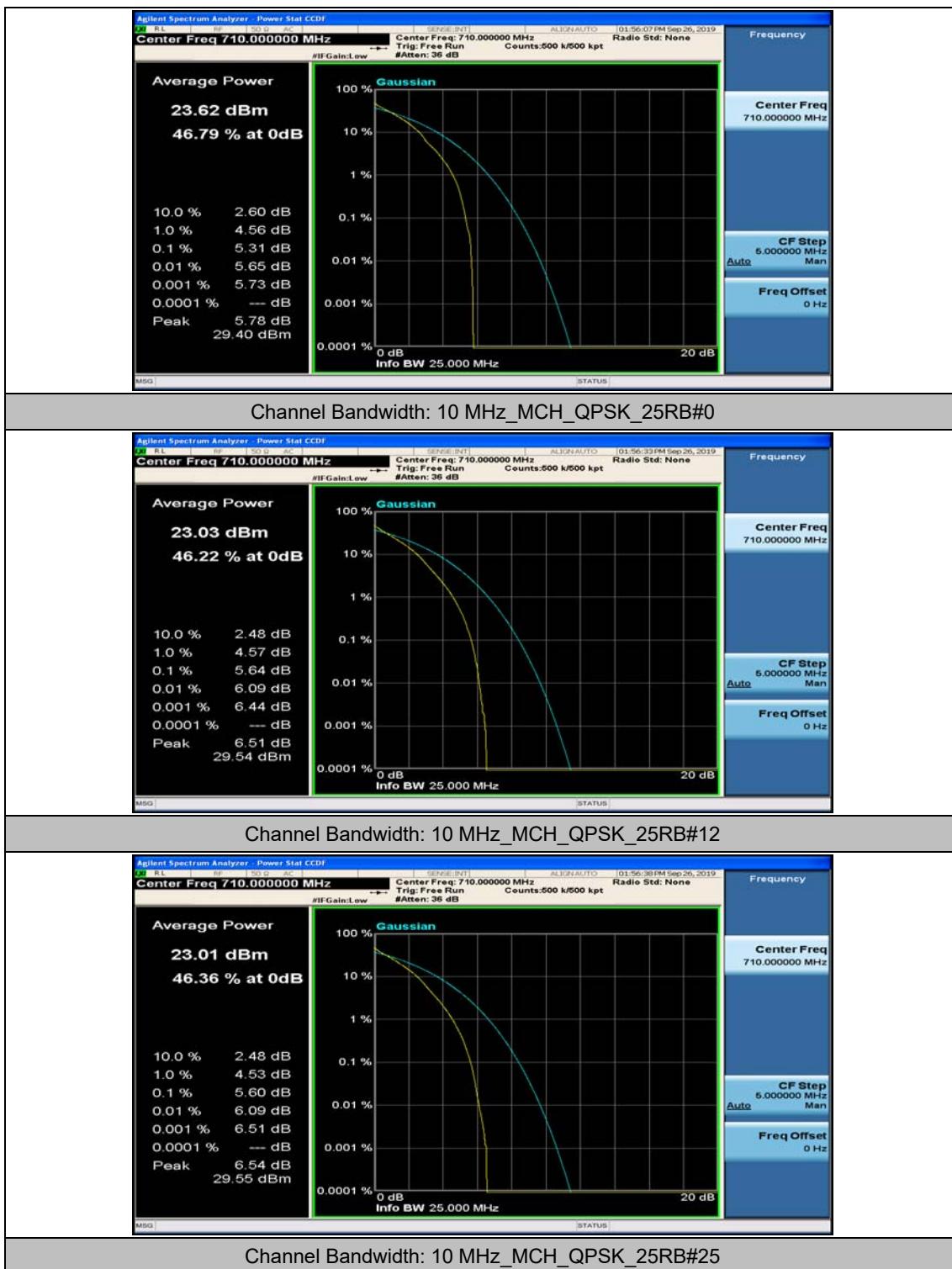
Channel Bandwidth: 10 MHz

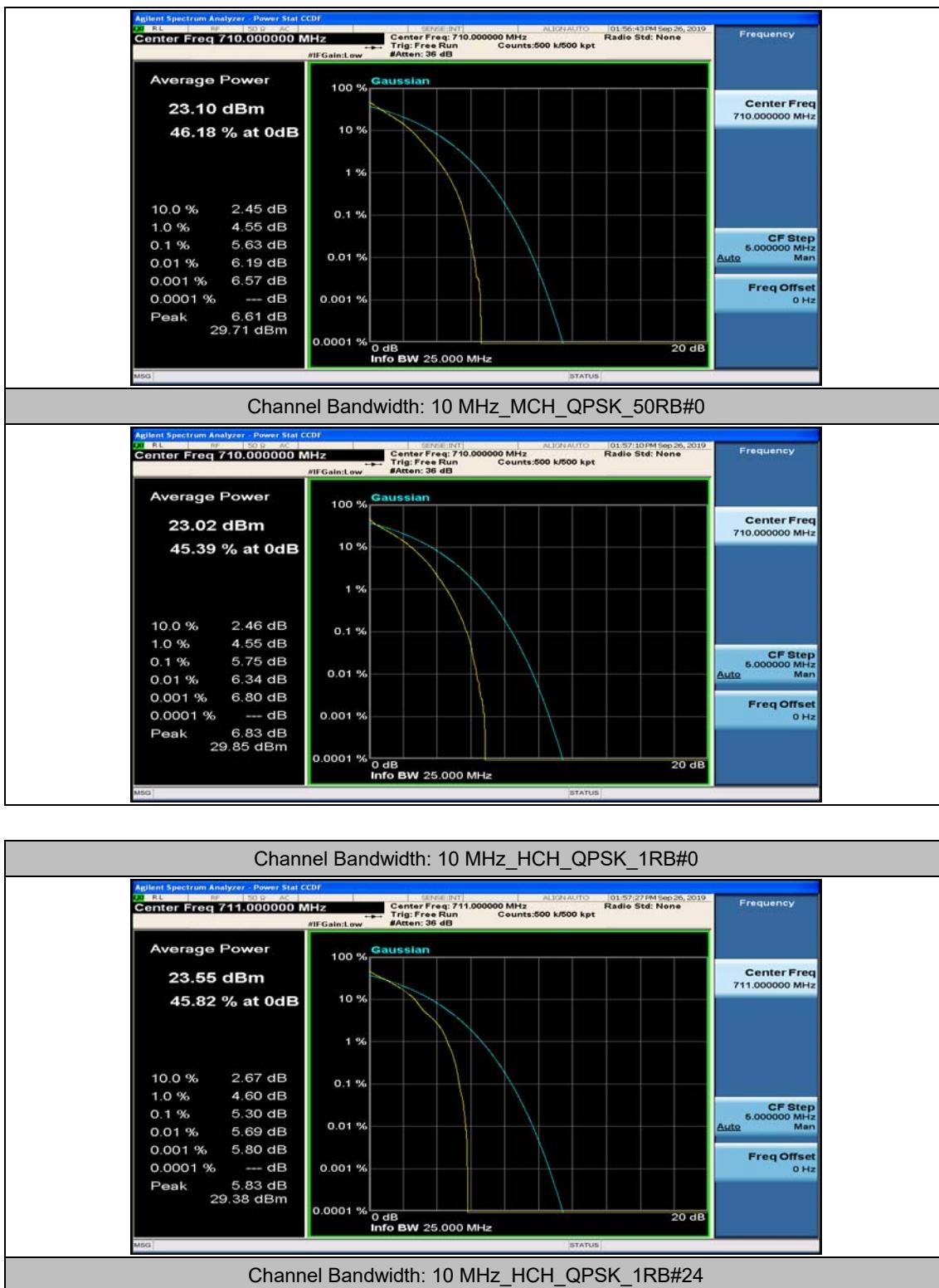


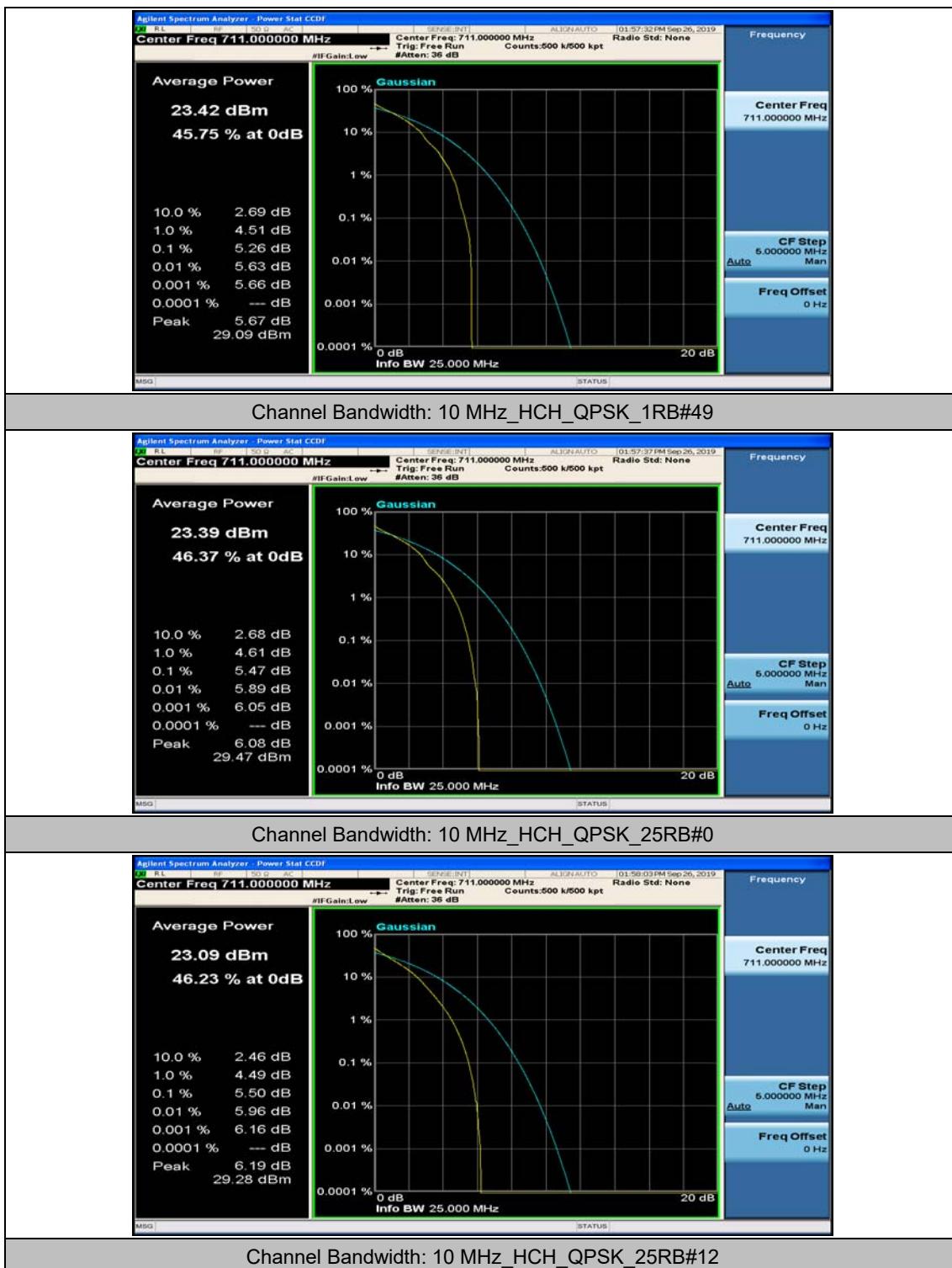


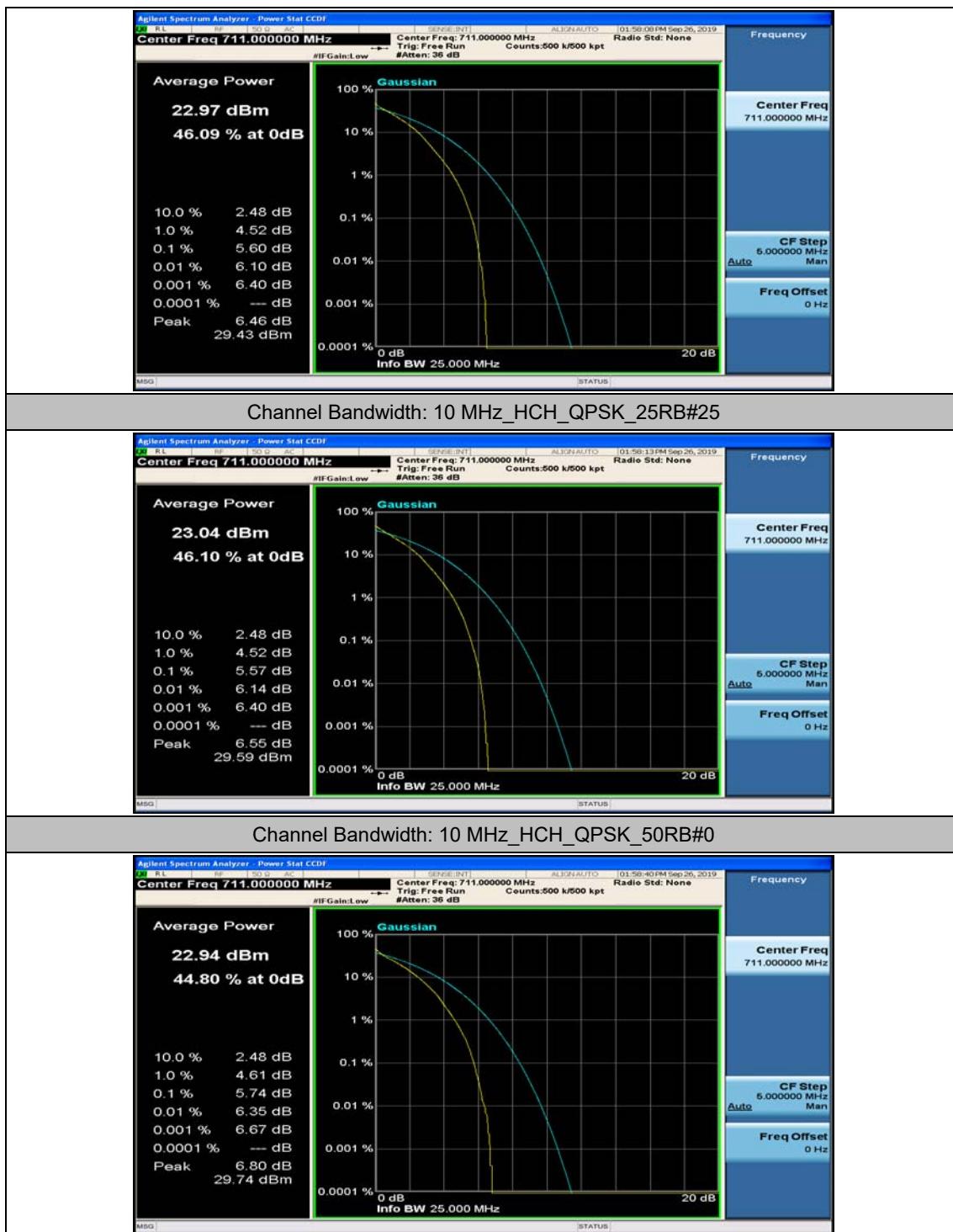


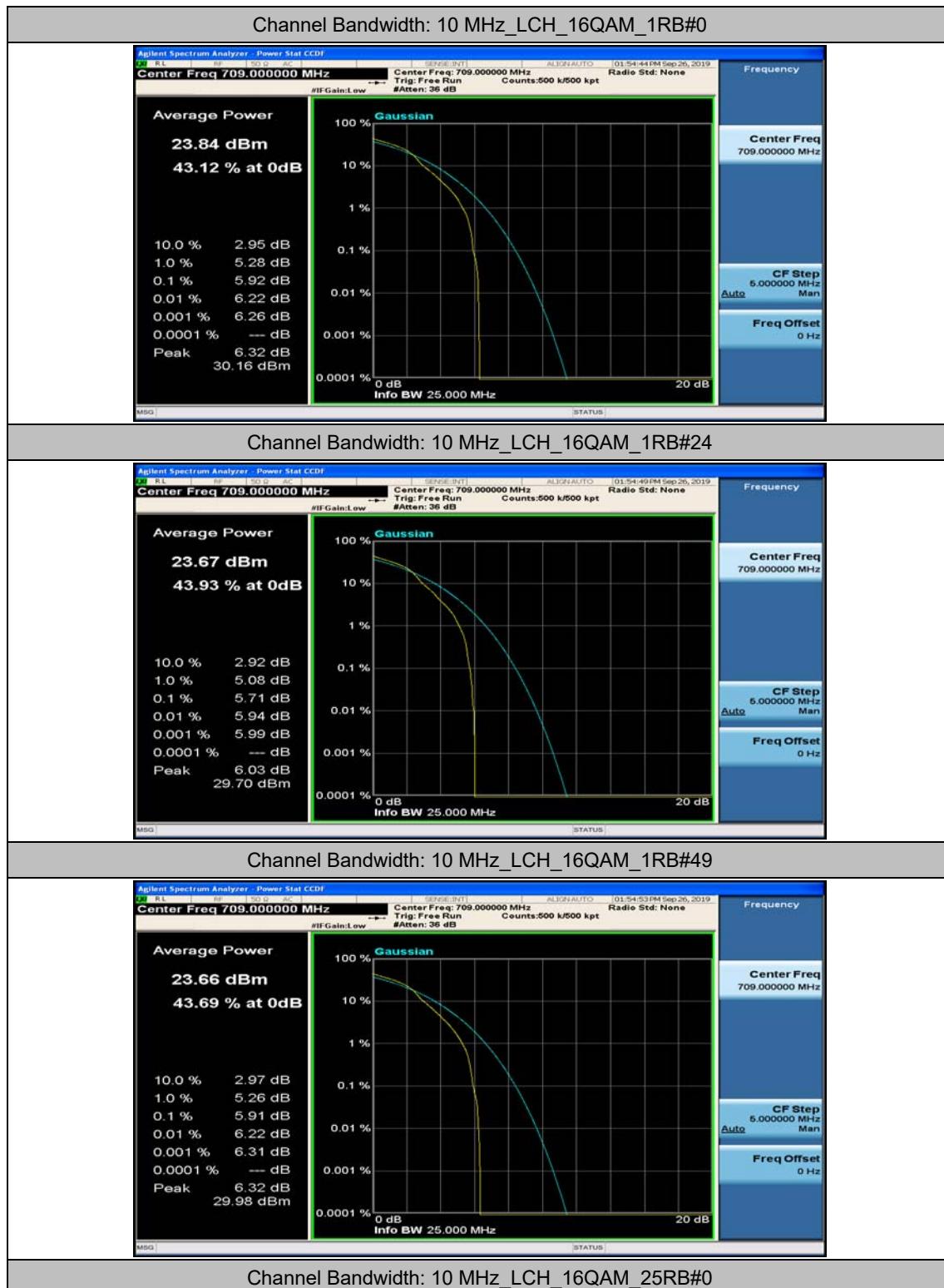
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

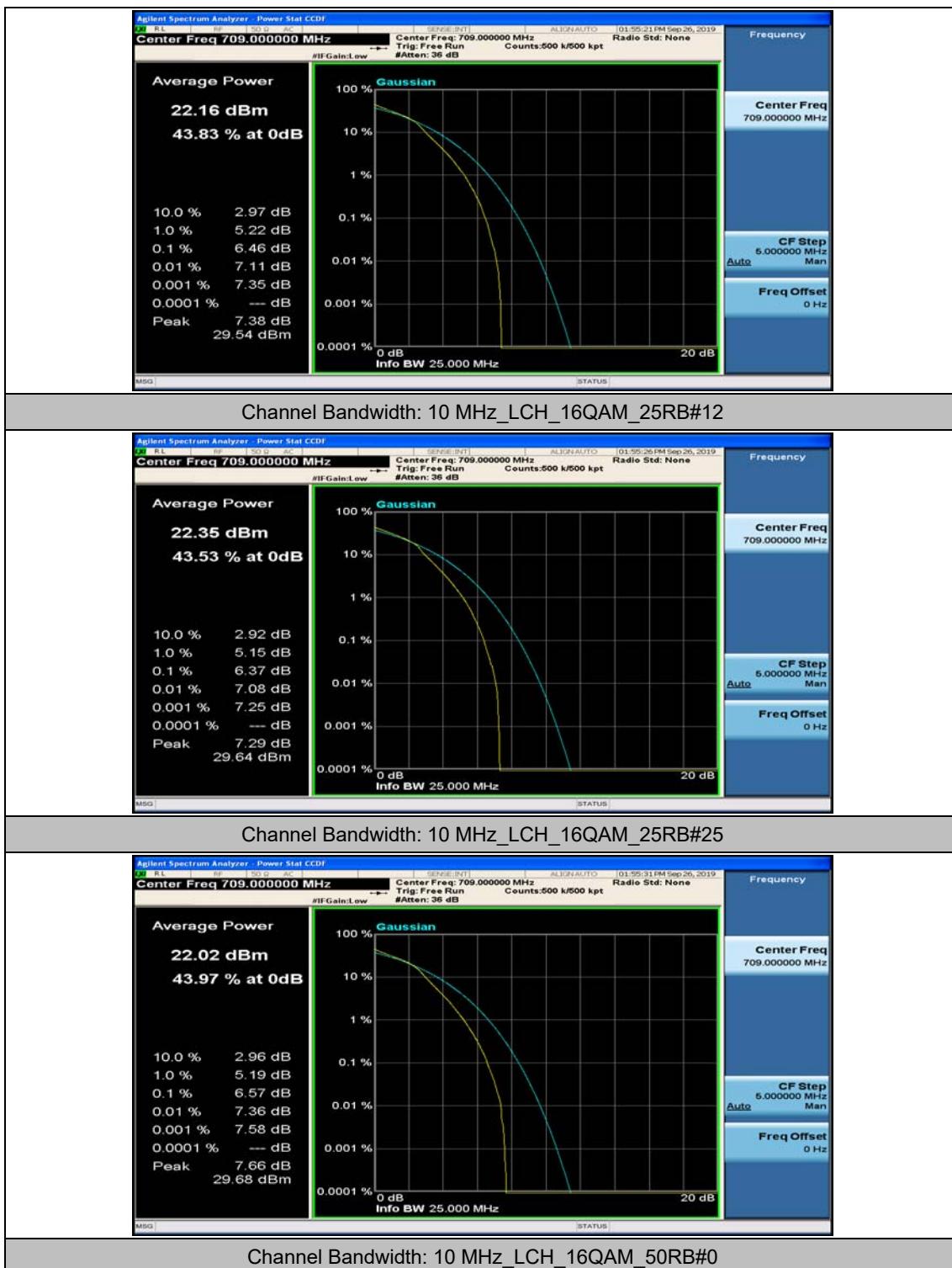


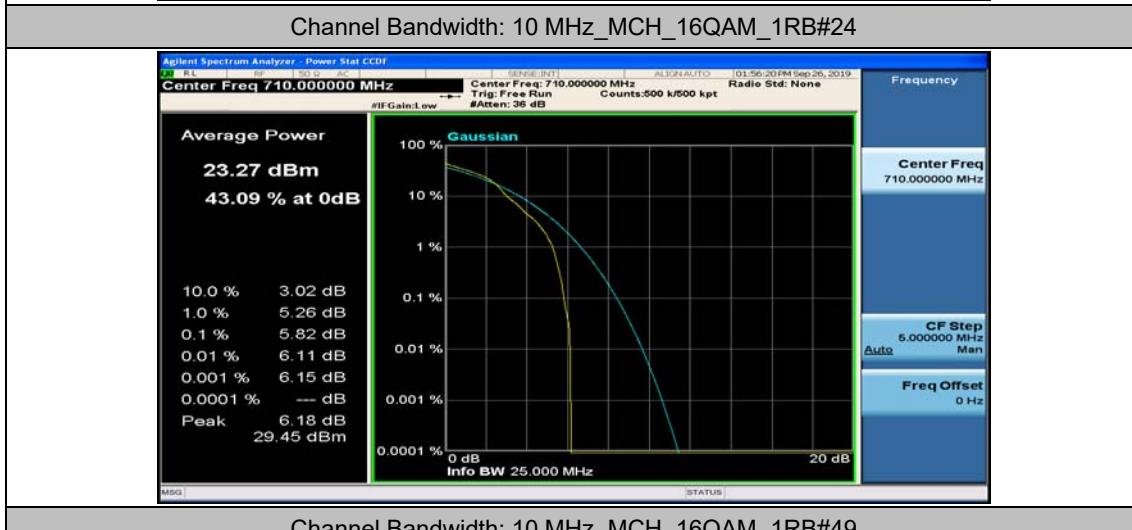
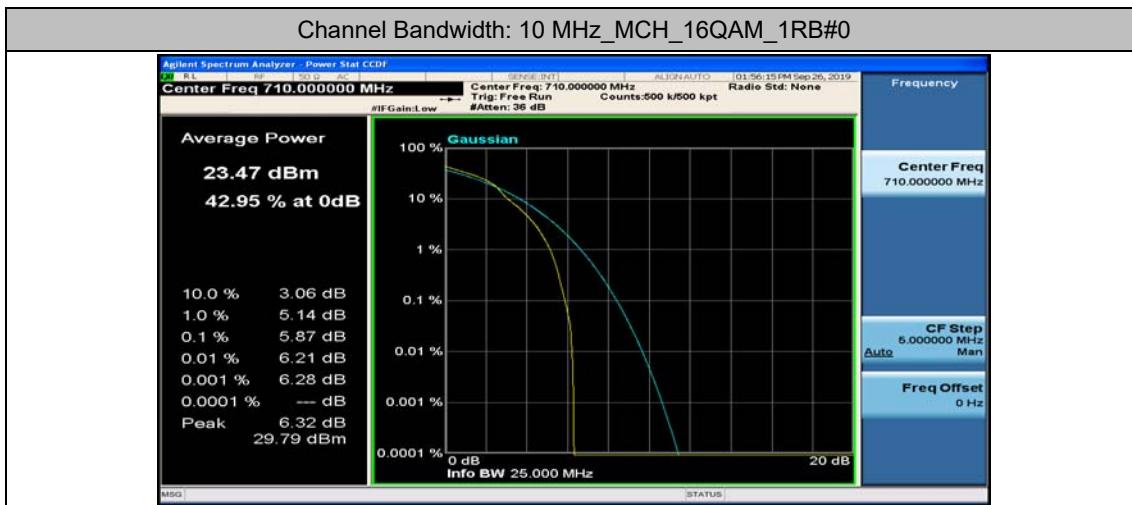




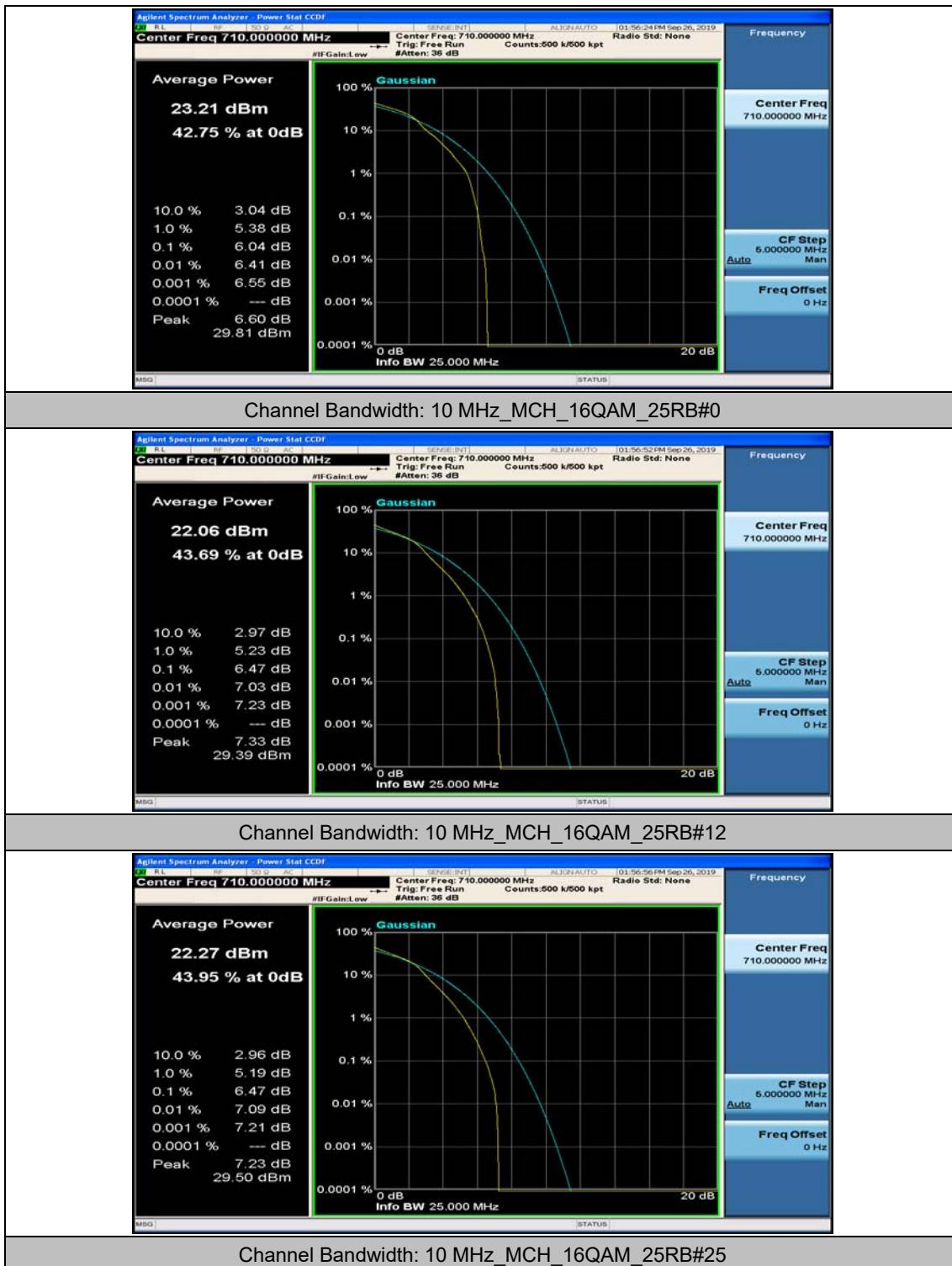


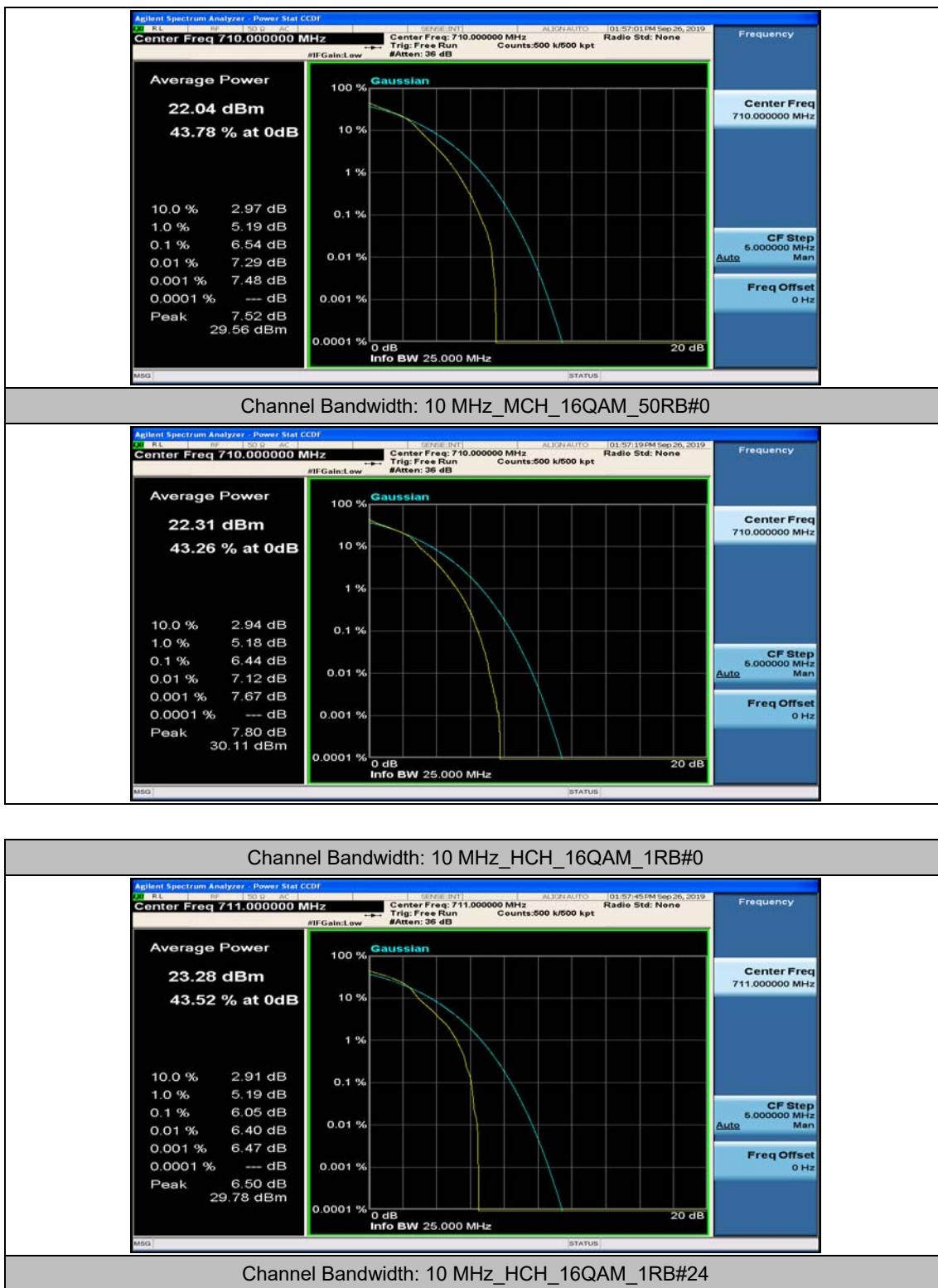


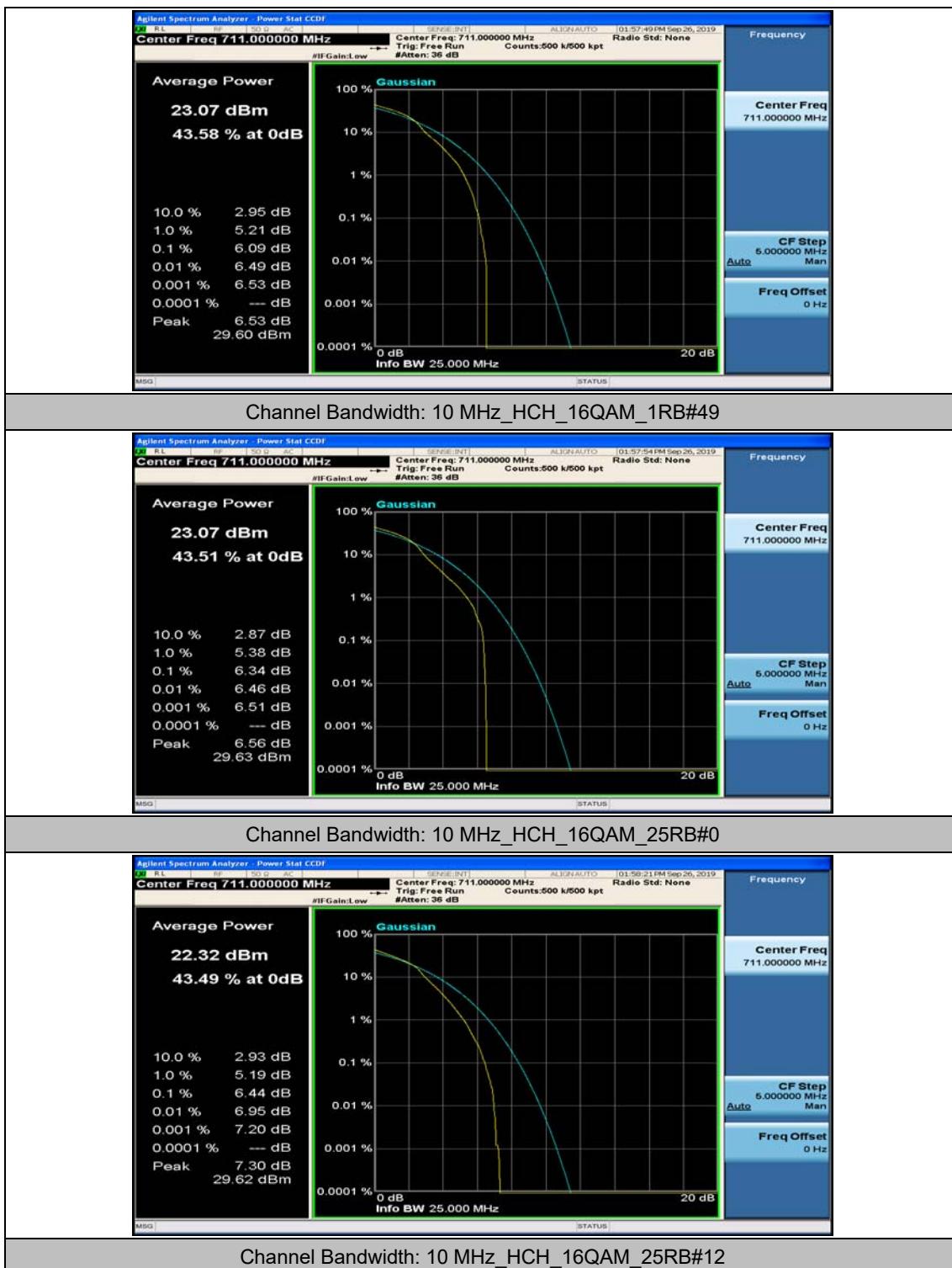


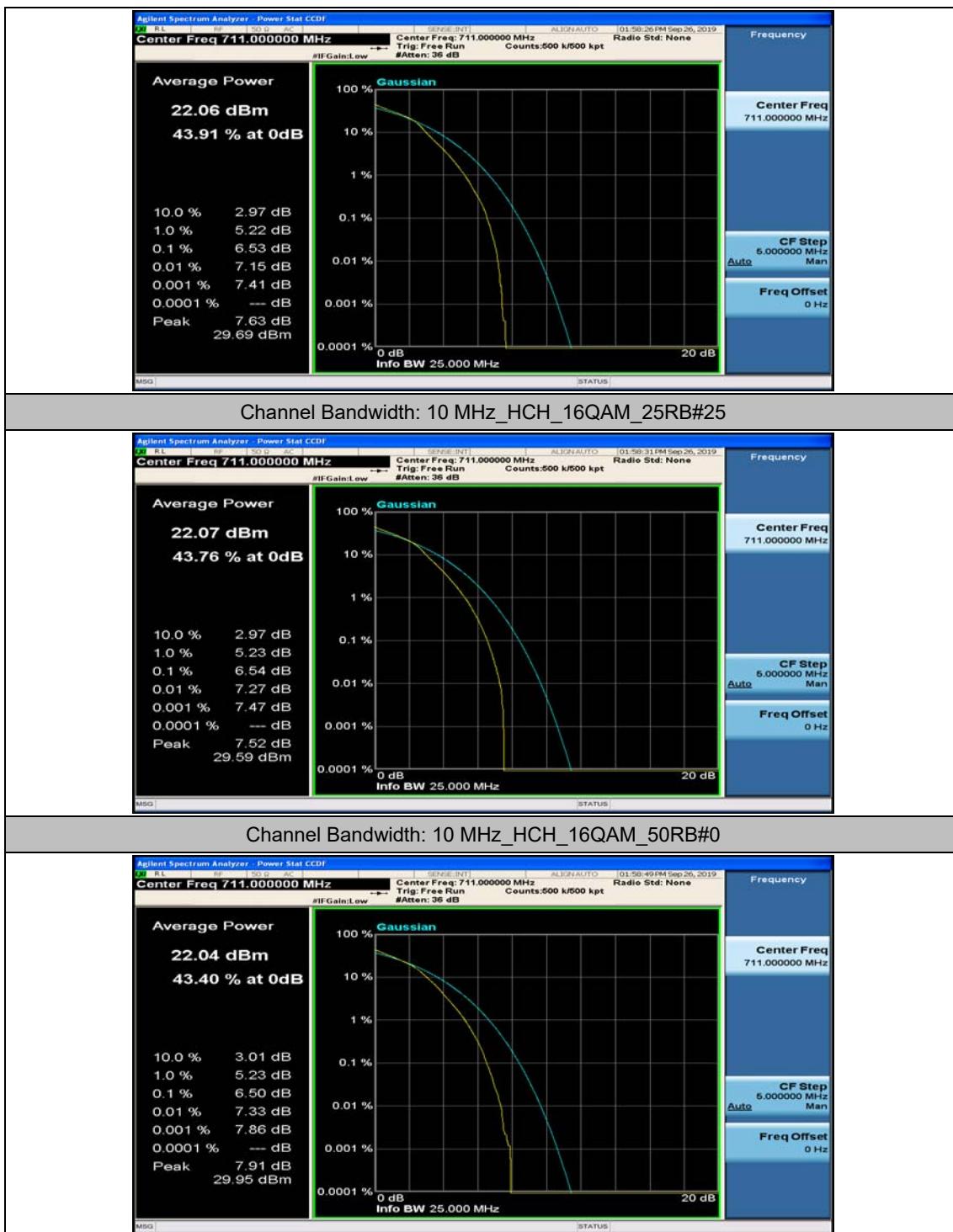


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49









Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

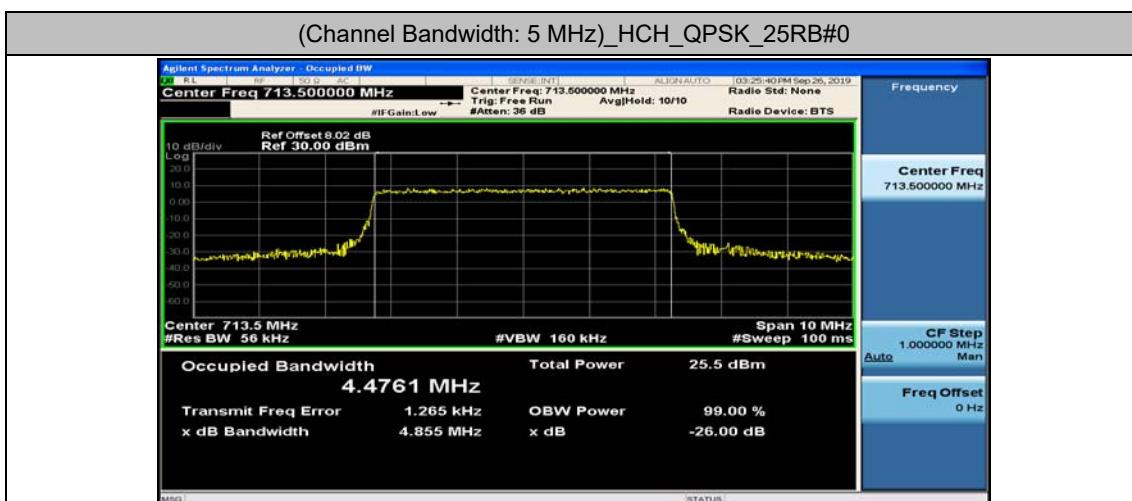
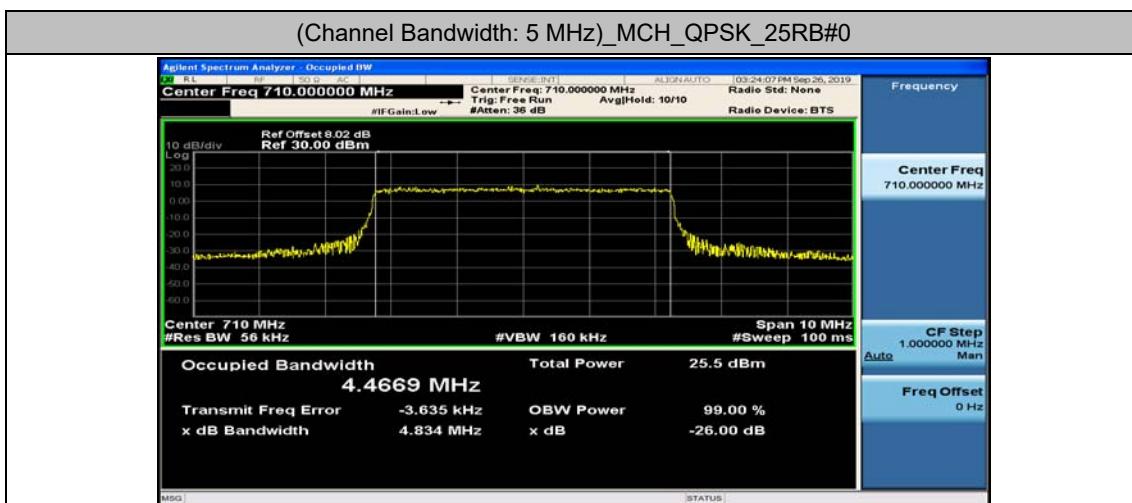
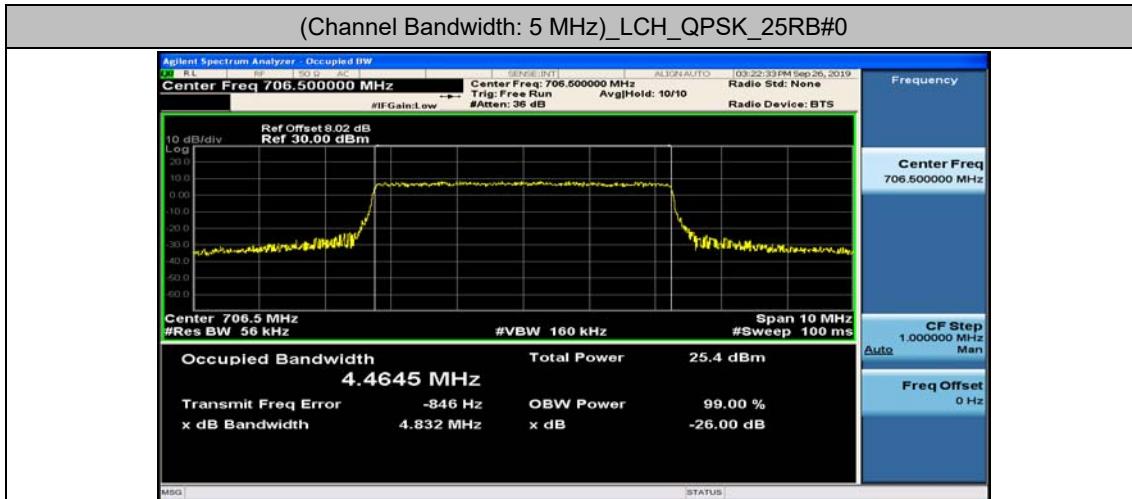
| Channel Bandwidth: 5 MHz | | | | | | |
|--------------------------|---------|------------------|--------|-----------------------------|-------------------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 25 | 0 | 4.4645 | 4.832 | PASS |
| | MCH | 25 | 0 | 4.4669 | 4.834 | PASS |
| | HCH | 25 | 0 | 4.4761 | 4.855 | PASS |
| 16QAM | LCH | 25 | 0 | 4.4733 | 4.805 | PASS |
| | MCH | 25 | 0 | 4.4716 | 4.782 | PASS |
| | HCH | 25 | 0 | 4.4678 | 4.809 | PASS |

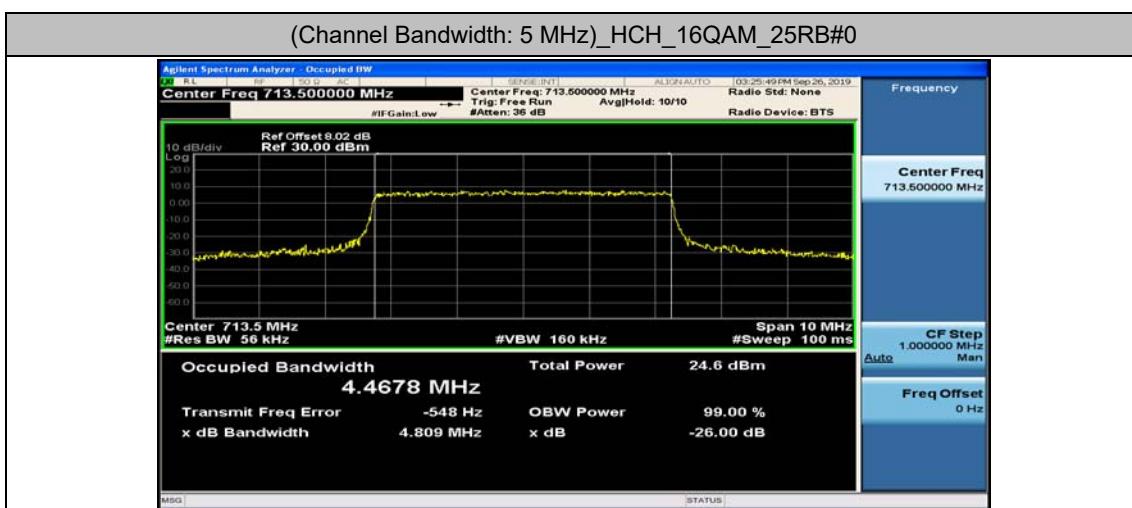
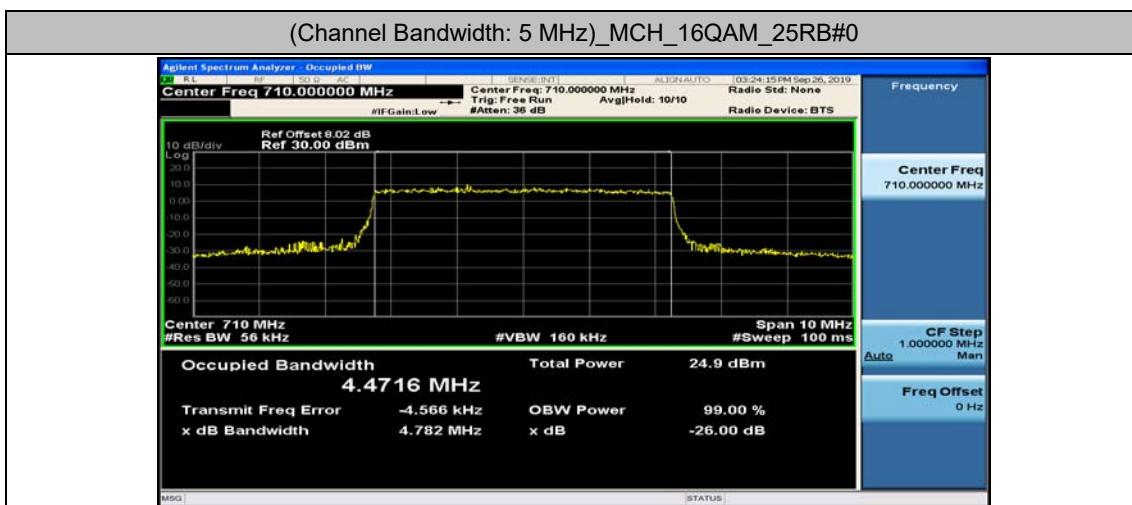
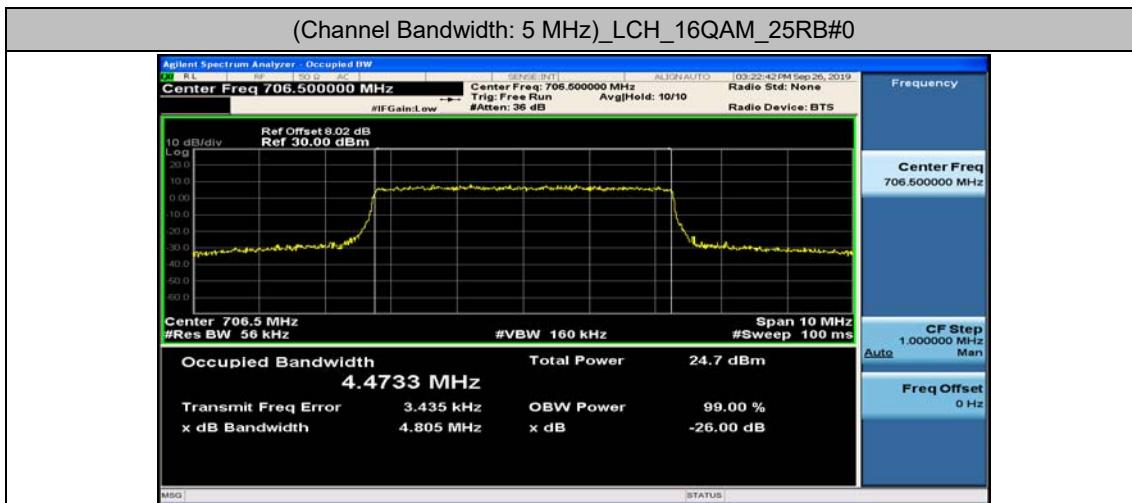
Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-----------------------------|-------------------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 50 | 0 | 8.9441 | 9.526 | PASS |
| | MCH | 50 | 0 | 8.9524 | 9.567 | PASS |
| | HCH | 50 | 0 | 8.9485 | 9.511 | PASS |
| 16QAM | LCH | 50 | 0 | 8.9407 | 9.453 | PASS |
| | MCH | 50 | 0 | 8.9595 | 9.633 | PASS |
| | HCH | 50 | 0 | 8.9417 | 9.613 | PASS |

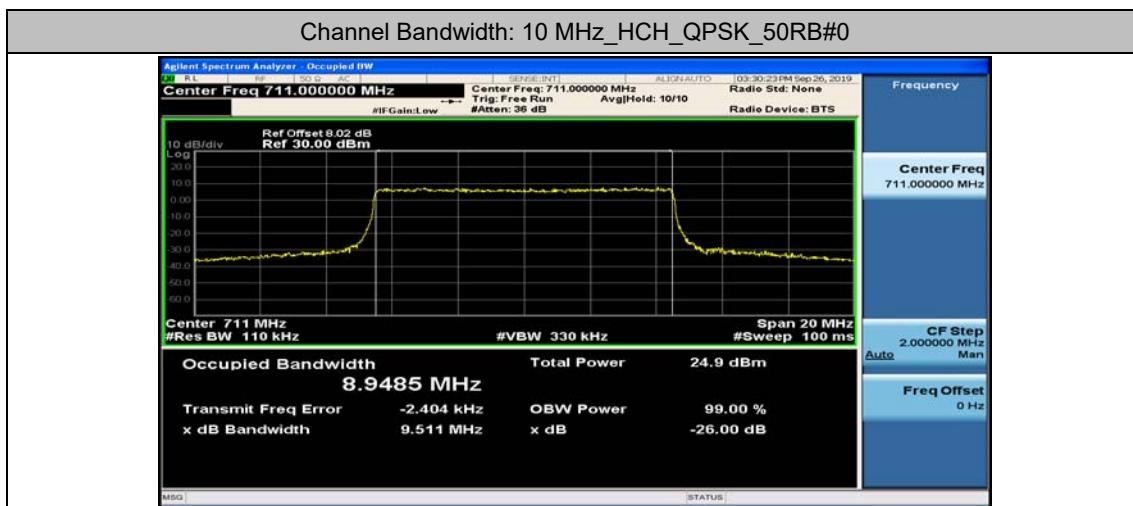
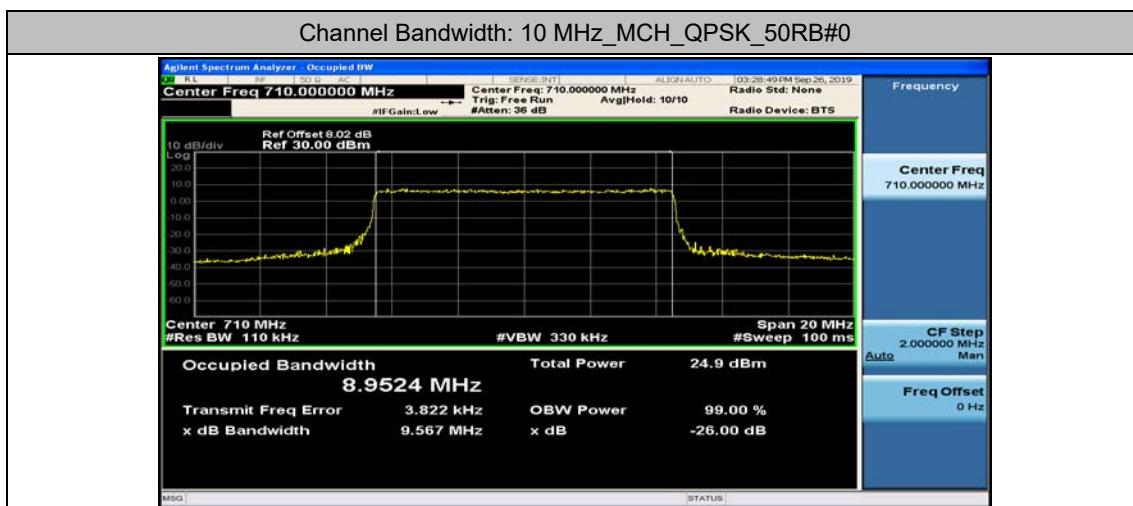
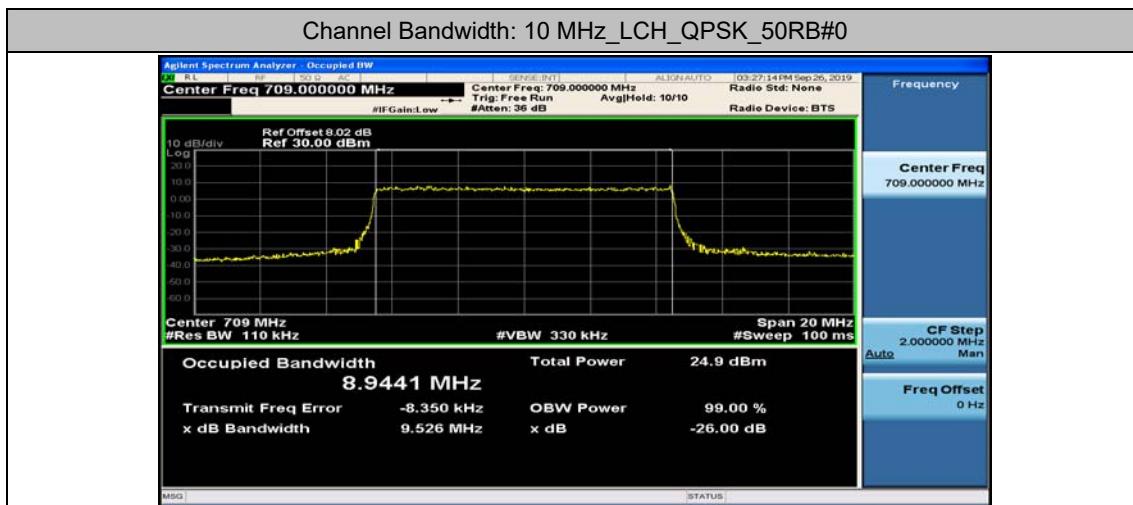
Test Graphs

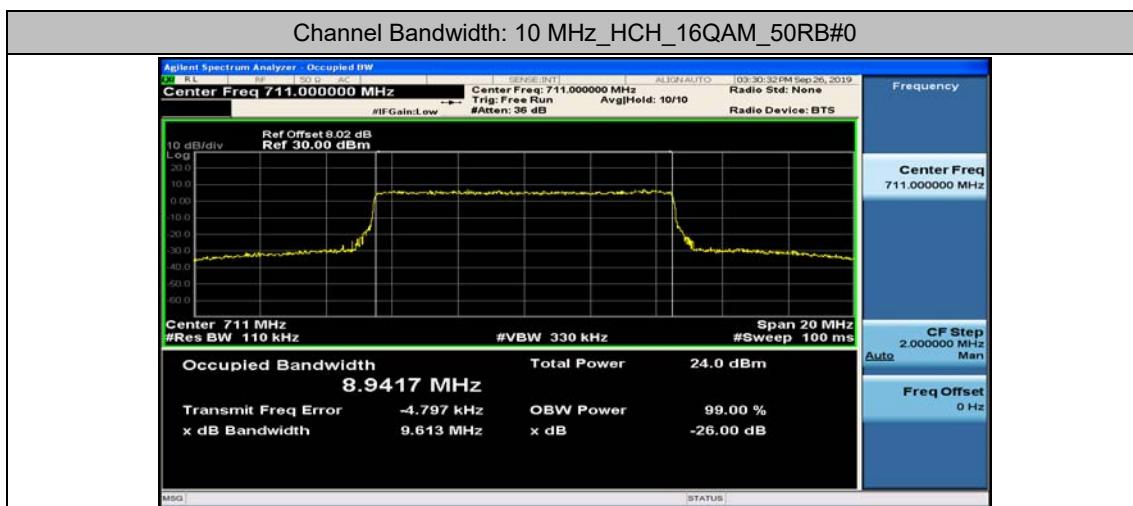
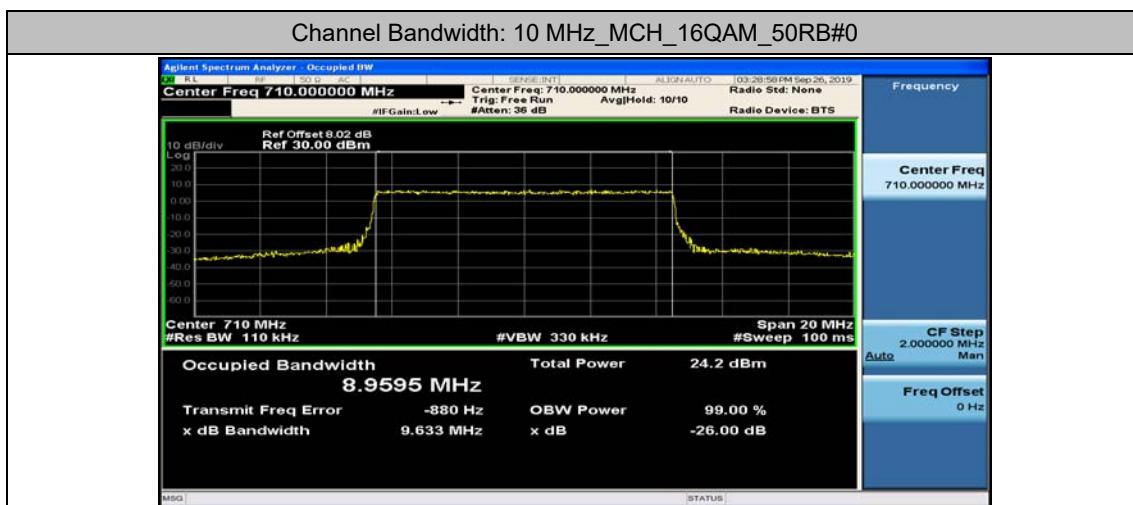
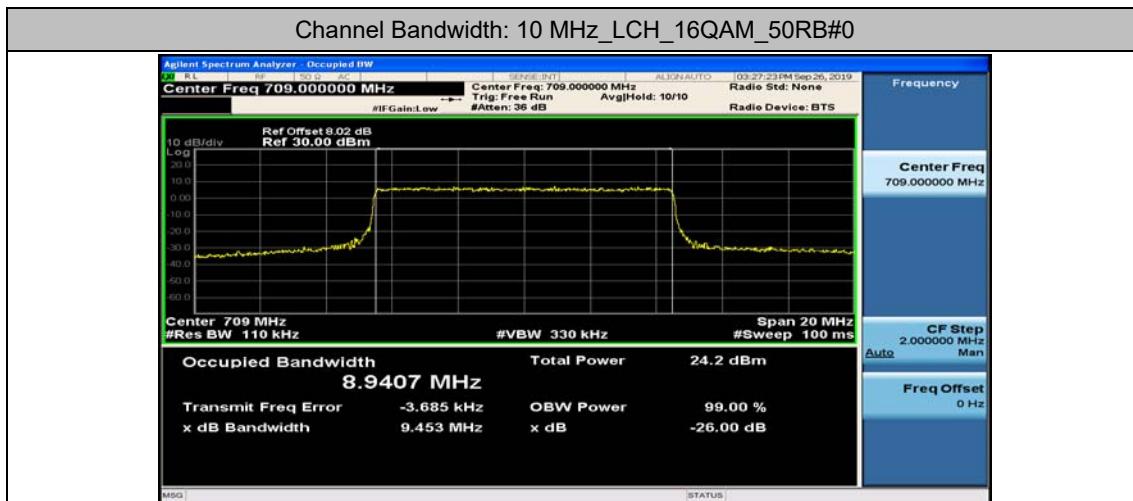
Channel Bandwidth: 5 MHz





Channel Bandwidth: 10 MHz

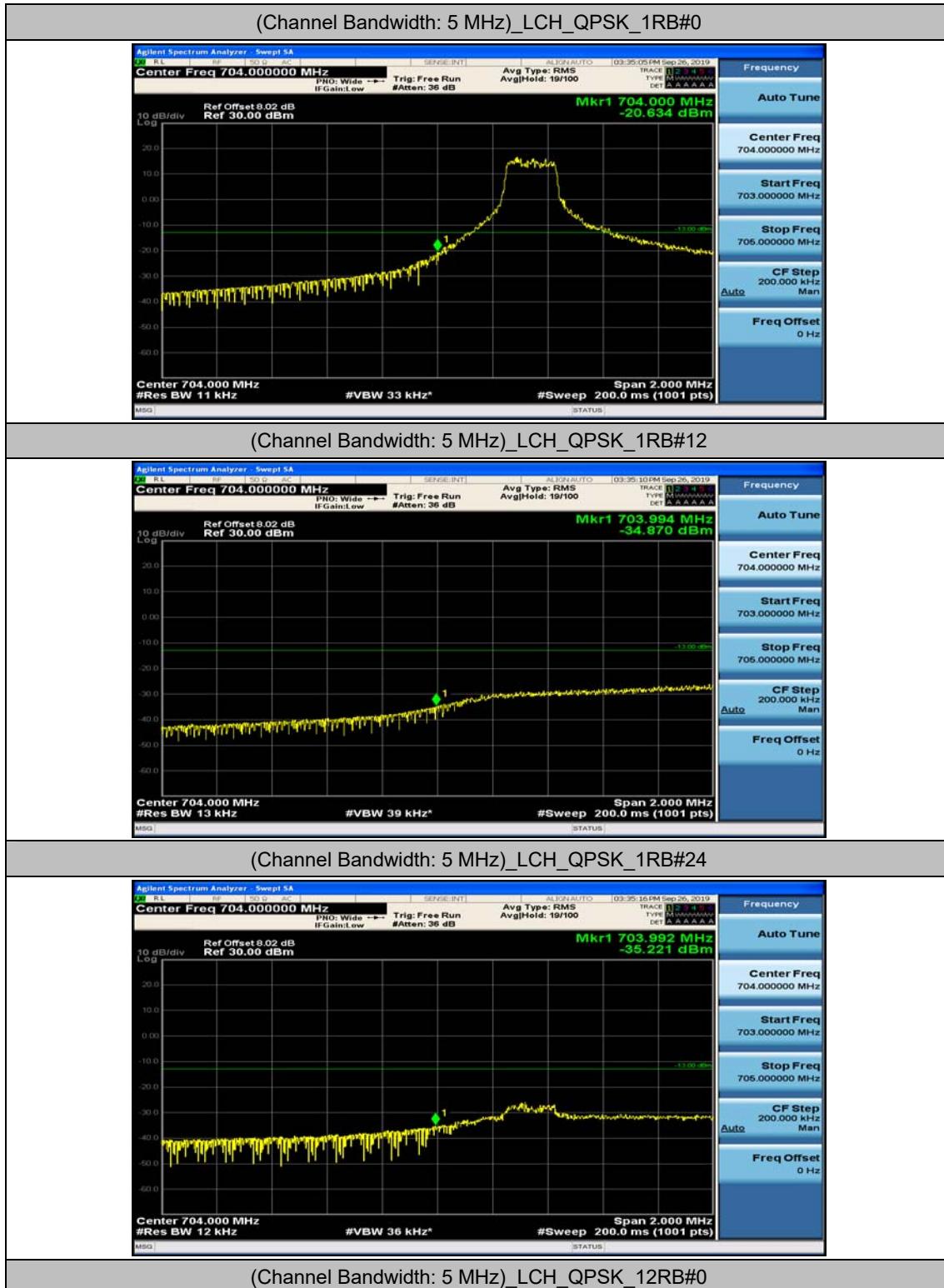


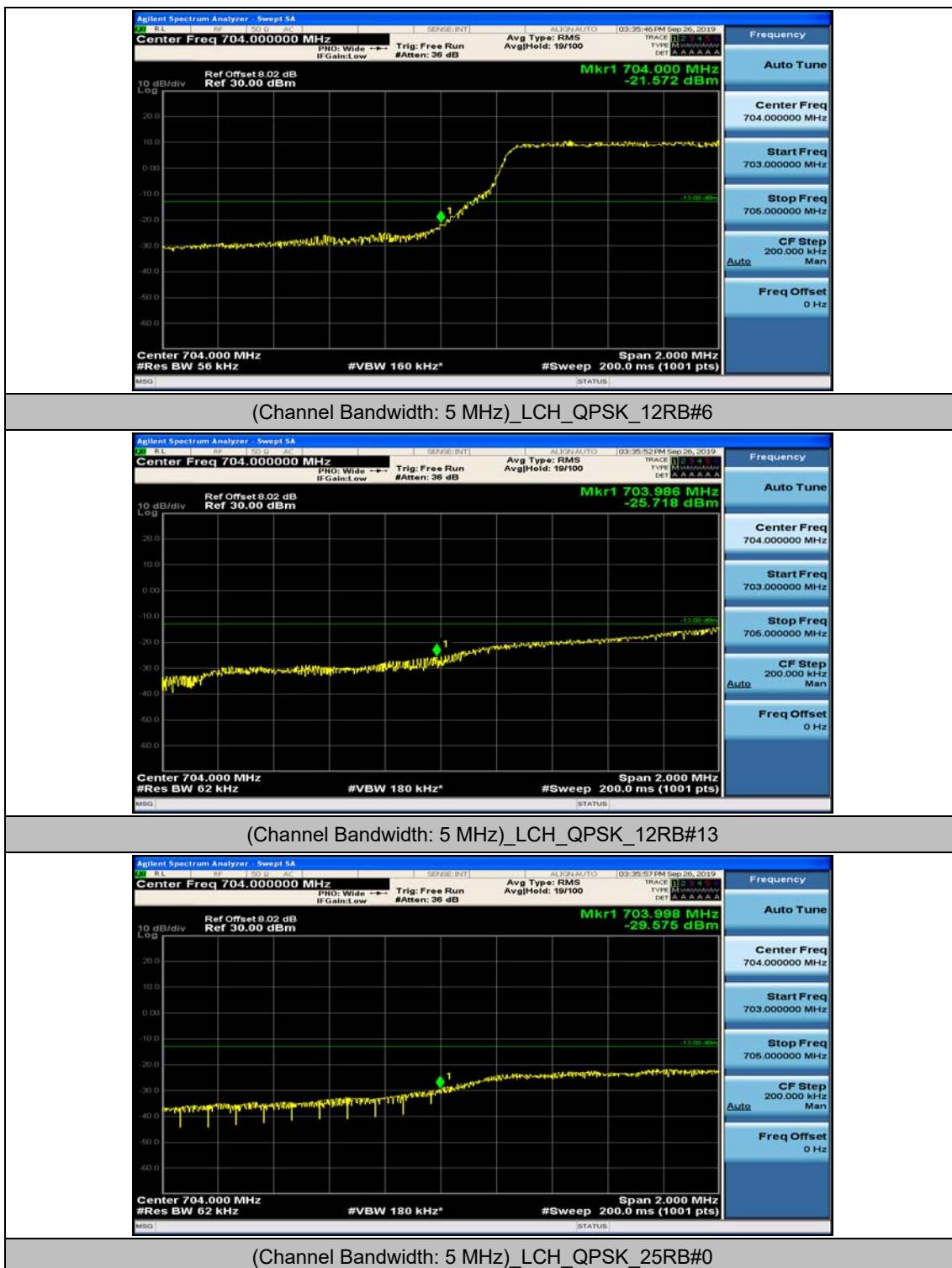


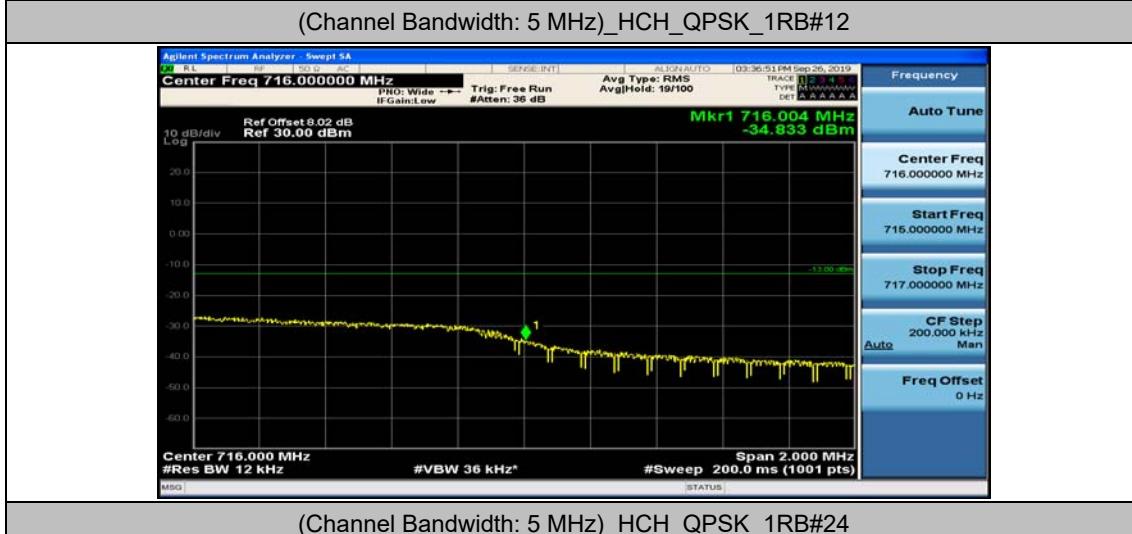
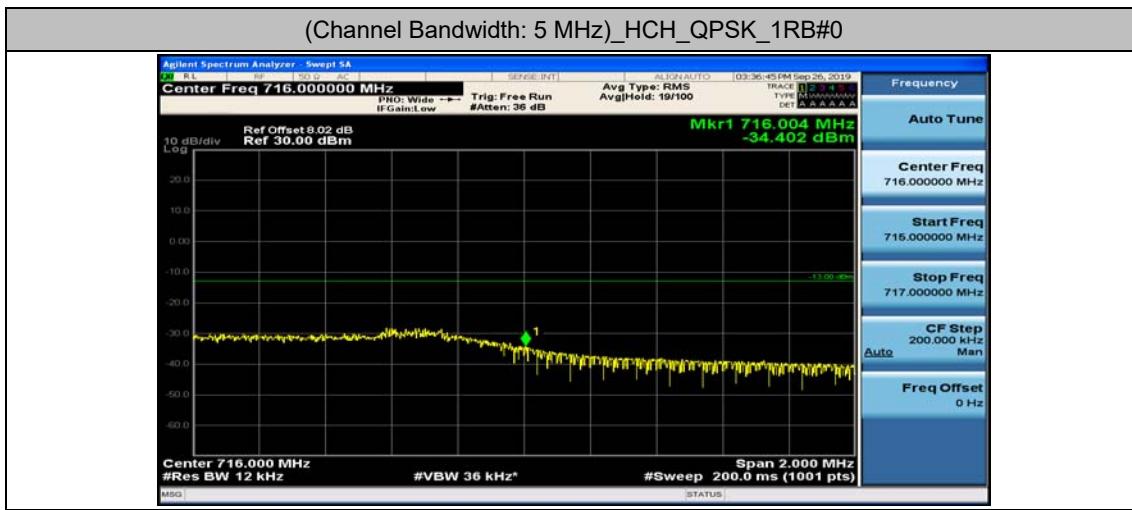
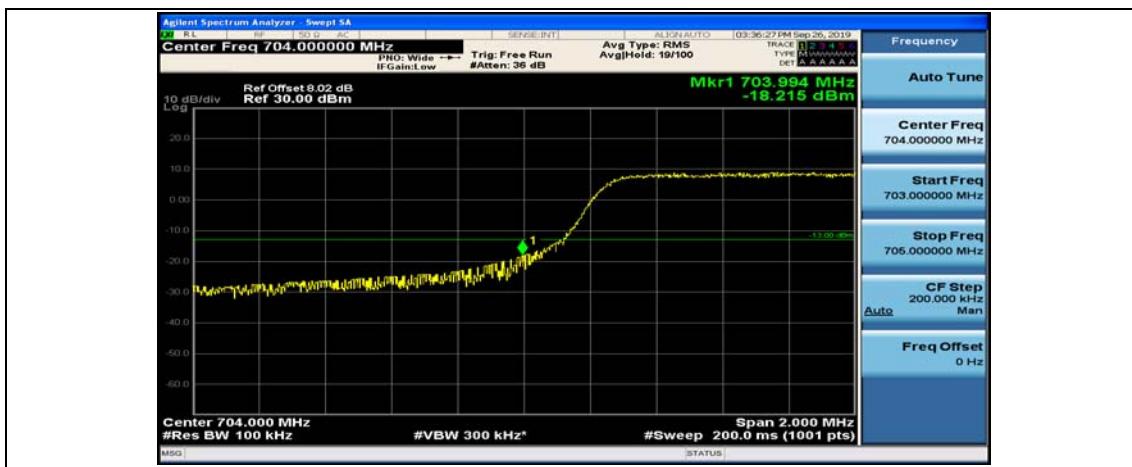
Appendix D: Band Edge

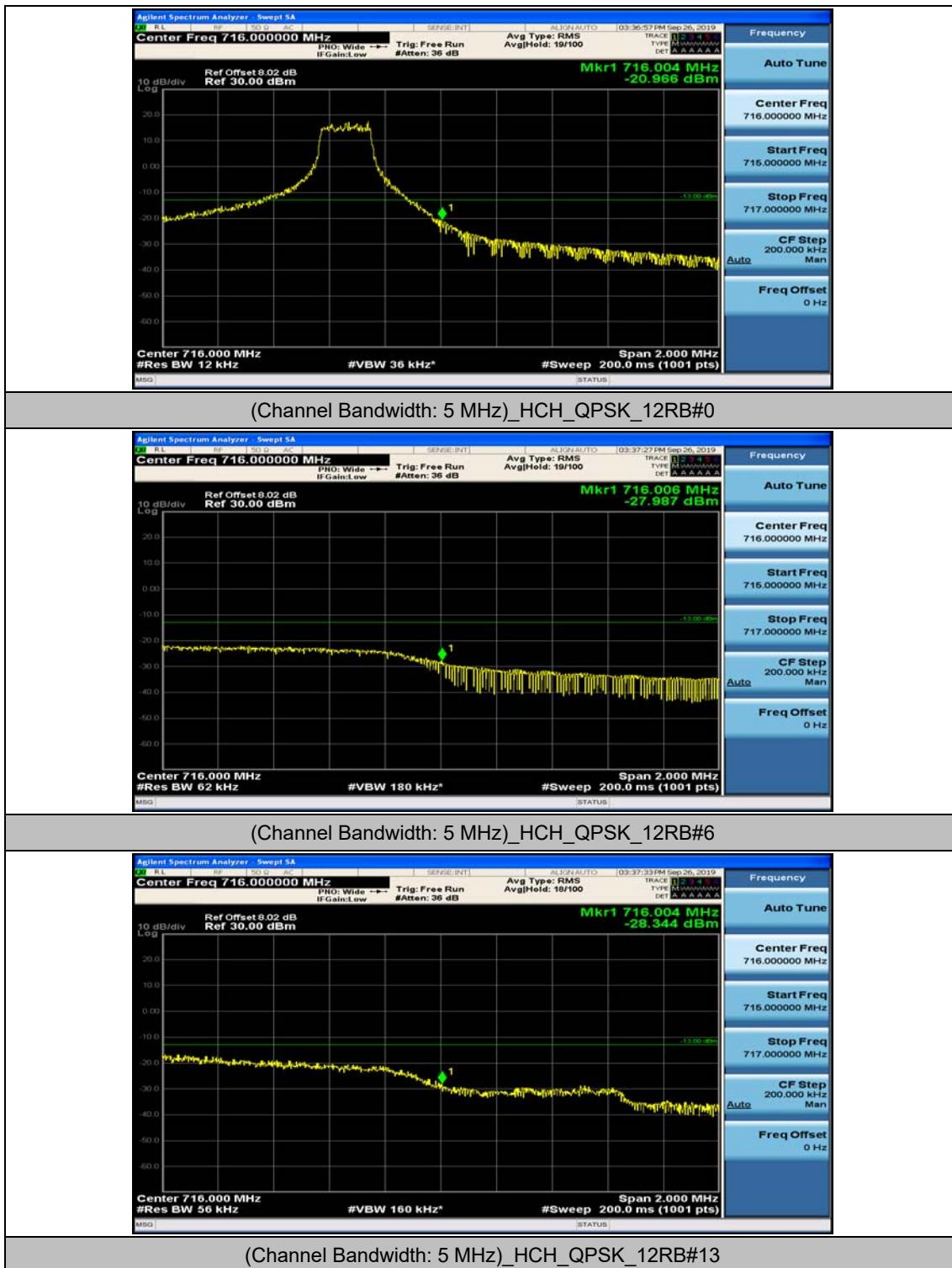
Test Graphs

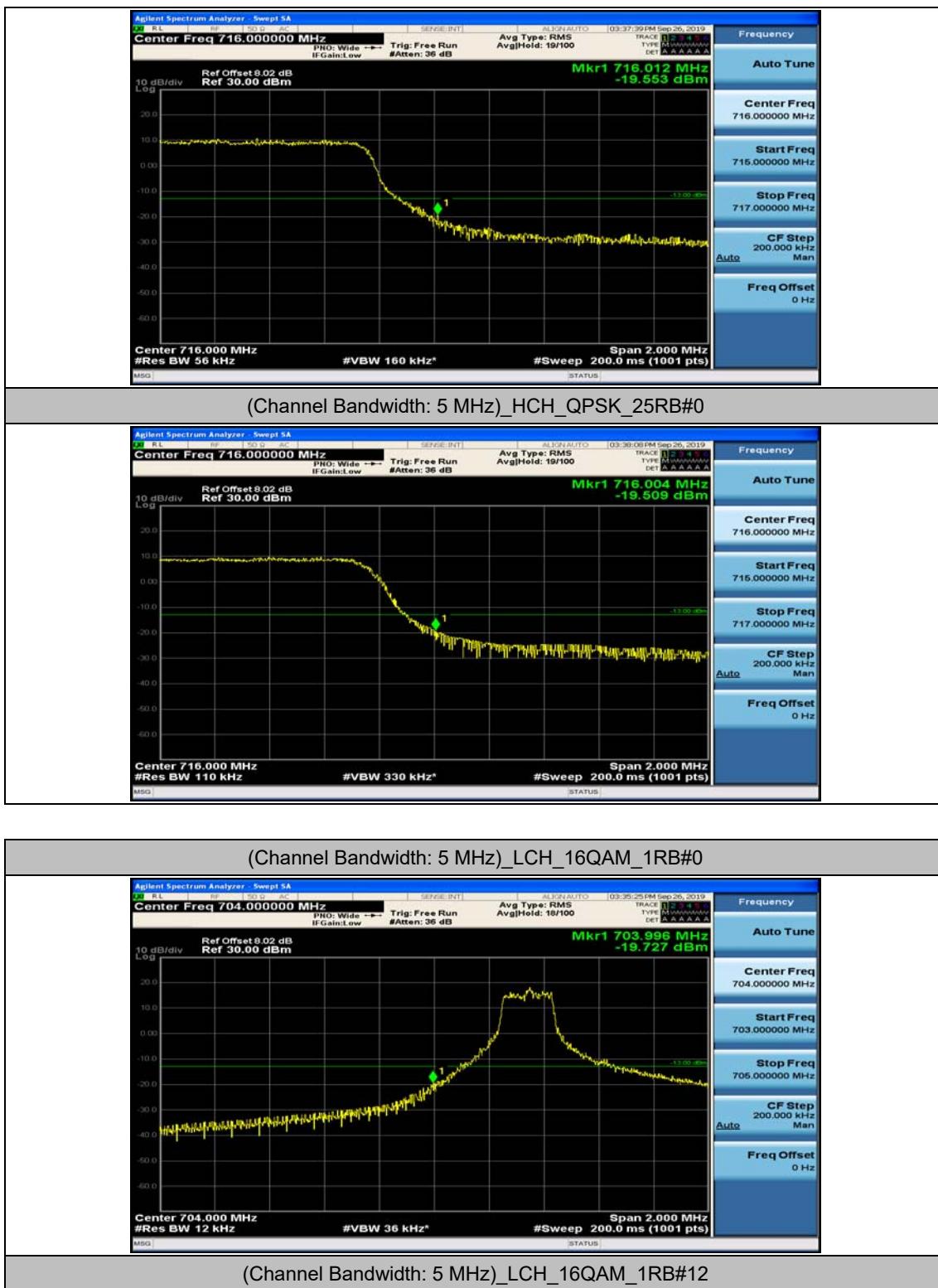
Channel Bandwidth: 5 MHz



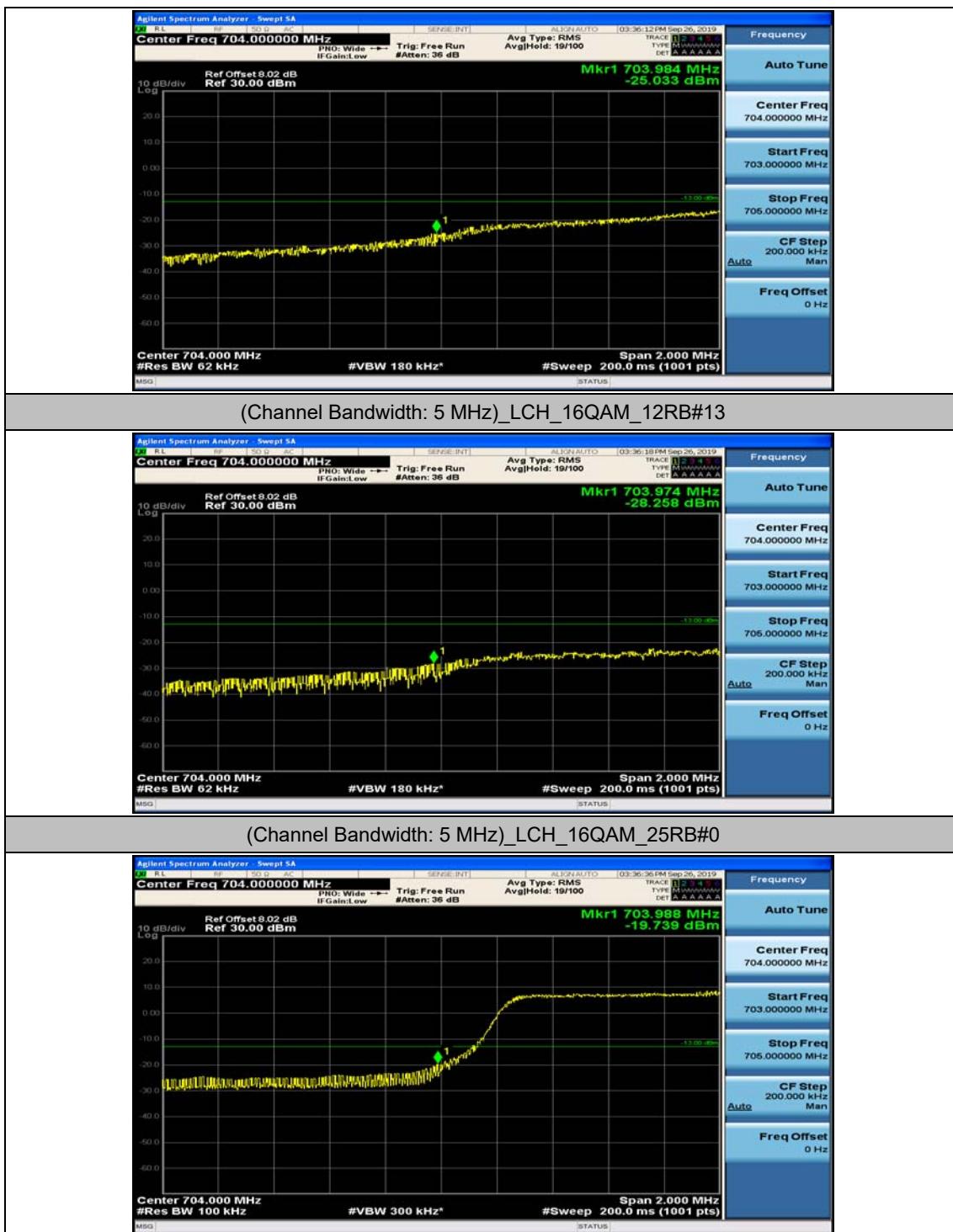


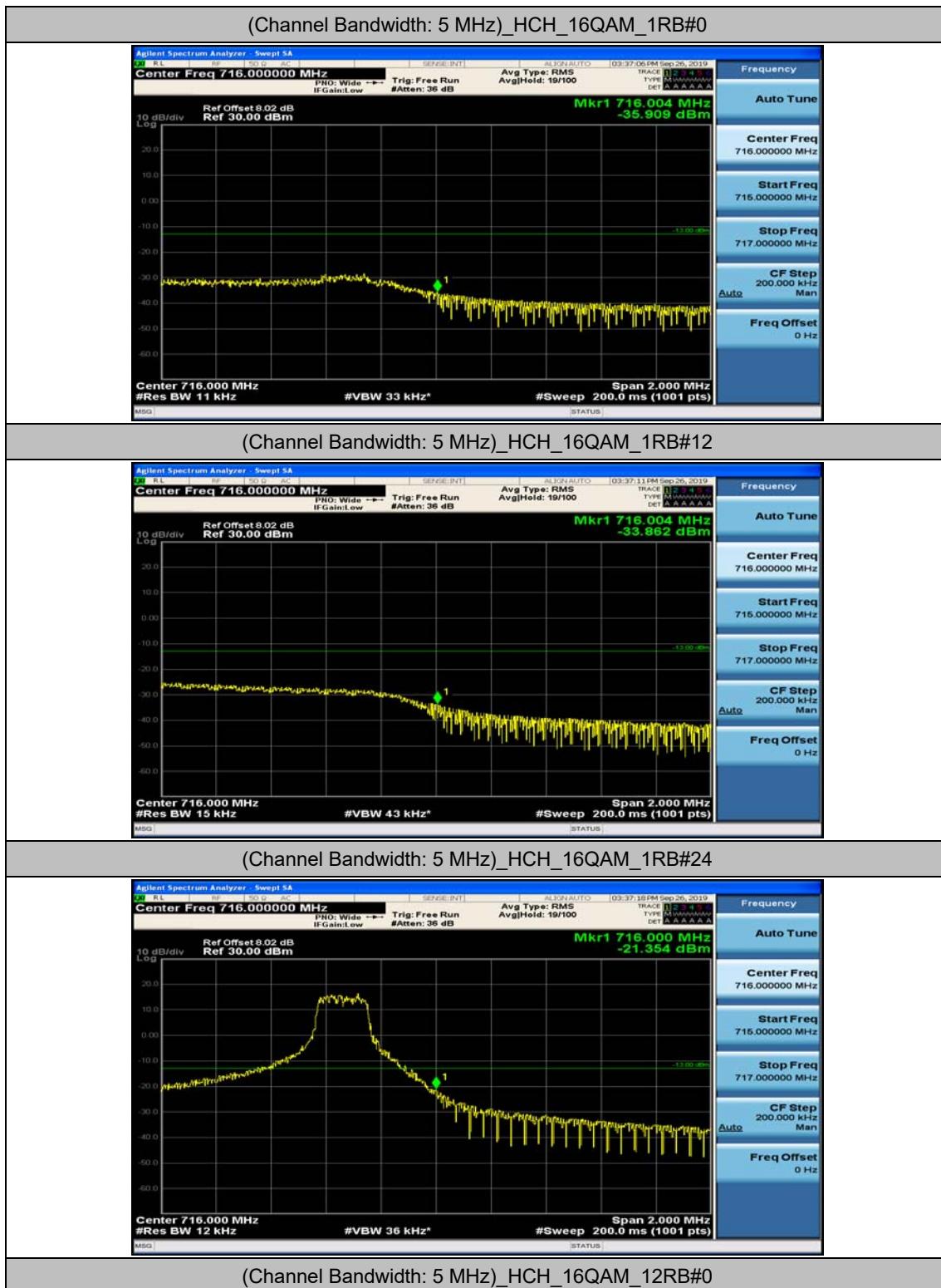












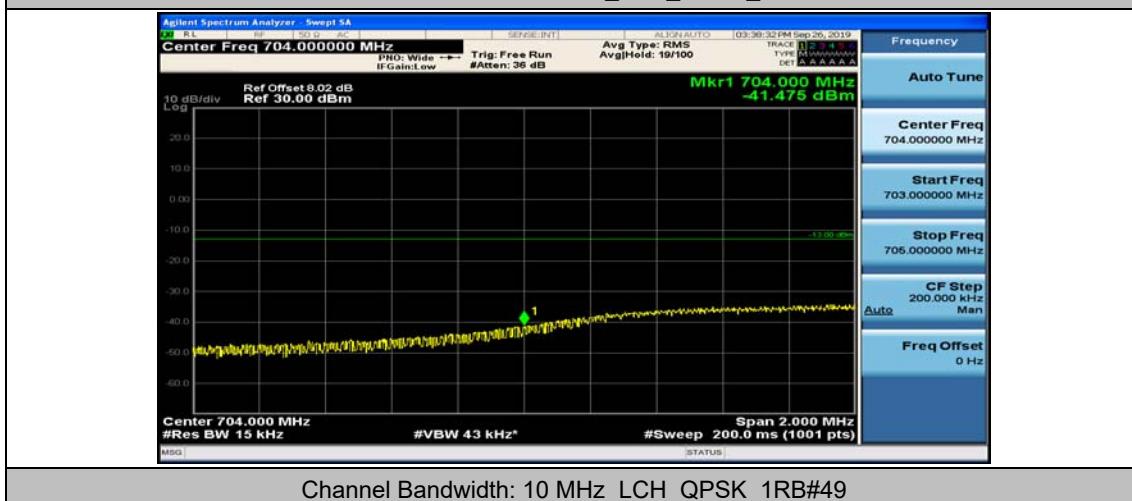




Channel Bandwidth: 10 MHz



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

