# Appendix E: Test Data for E-UTRA Band 17

**Product Name: LTE GSM/WCDMA Smartphone**

**Trade Mark: DOOGEE**

**Test Model: S80**

**Environmental Conditions**

| | |
|---|---|
| Temperature: | 23.6 ° C |
| Relative Humidity: | 53.6% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | WANGCHUANG |
| Supervised by: | Jayden Zhuo |

## E.1 Conducted Output Power

| Conducted Output Power Test Result (Channel Bandwidth: 5 MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Average Power [dBm] | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 23.80 | 23.11 | PASS |
| | | 1 | 12 | 24.13 | 23.37 | PASS |
| | | 1 | 24 | 23.77 | 23.07 | PASS |
| | | 12 | 0 | 22.87 | 21.92 | PASS |
| | | 12 | 6 | 22.97 | 22.06 | PASS |
| | | 12 | 13 | 22.88 | 22.00 | PASS |
| | | 25 | 0 | 22.87 | 21.87 | PASS |
| | MCH | 1 | 0 | 23.88 | 22.72 | PASS |
| | | 1 | 12 | 24.19 | 23.08 | PASS |
| | | 1 | 24 | 23.78 | 22.72 | PASS |
| | | 12 | 0 | 22.88 | 21.87 | PASS |
| | | 12 | 6 | 22.87 | 21.88 | PASS |
| | | 12 | 13 | 22.80 | 21.83 | PASS |
| | | 25 | 0 | 22.92 | 21.89 | PASS |
| | HCH | 1 | 0 | 23.75 | 22.33 | PASS |
| | | 1 | 12 | 23.90 | 22.57 | PASS |
| | | 1 | 24 | 23.21 | 22.21 | PASS |
| | | 12 | 0 | 22.31 | 21.32 | PASS |
| | | 12 | 6 | 22.33 | 21.34 | PASS |
| | | 12 | 13 | 22.25 | 21.24 | PASS |
| | | 25 | 0 | 22.26 | 21.29 | PASS |

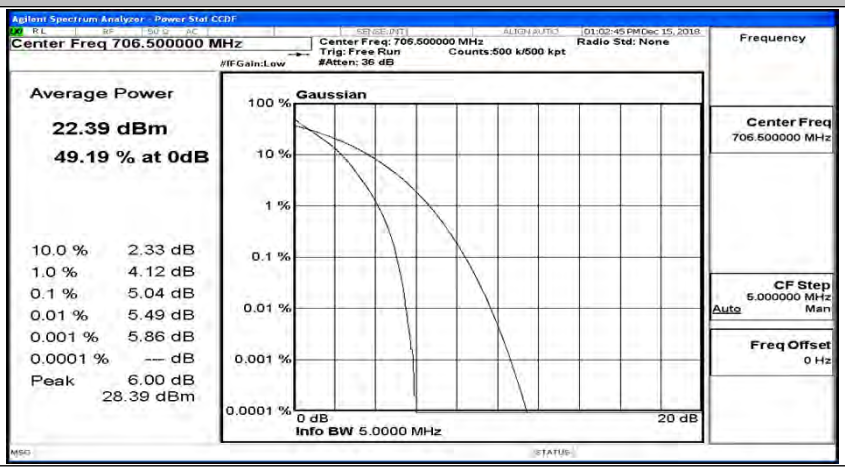
| Conducted Output Power Test Result (Channel Bandwidth: 10 MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Average Power [dBm] | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 23.32 | 22.57 | PASS |
| | | 1 | 24 | 23.49 | 22.75 | PASS |
| | | 1 | 49 | 23.26 | 22.50 | PASS |
| | | 25 | 0 | 22.47 | 21.39 | PASS |
| | | 25 | 12 | 22.40 | 21.37 | PASS |
| | | 25 | 25 | 22.34 | 21.32 | PASS |
| | | 50 | 0 | 22.37 | 21.33 | PASS |
| | MCH | 1 | 0 | 23.34 | 22.55 | PASS |
| | | 1 | 24 | 23.52 | 22.77 | PASS |
| | | 1 | 49 | 23.24 | 22.43 | PASS |
| | | 25 | 0 | 22.45 | 21.42 | PASS |
| | | 25 | 12 | 22.41 | 21.39 | PASS |
| | | 25 | 25 | 22.39 | 21.33 | PASS |
| | | 50 | 0 | 22.43 | 21.35 | PASS |
| | HCH | 1 | 0 | 23.36 | 22.66 | PASS |
| | | 1 | 24 | 23.53 | 22.86 | PASS |
| | | 1 | 49 | 23.27 | 22.58 | PASS |
| | | 25 | 0 | 22.53 | 21.50 | PASS |
| | | 25 | 12 | 22.41 | 21.39 | PASS |
| | | 25 | 25 | 22.34 | 21.32 | PASS |
| | | 50 | 0 | 22.43 | 21.38 | PASS |

## E.2 Peak-to-Average Ratio

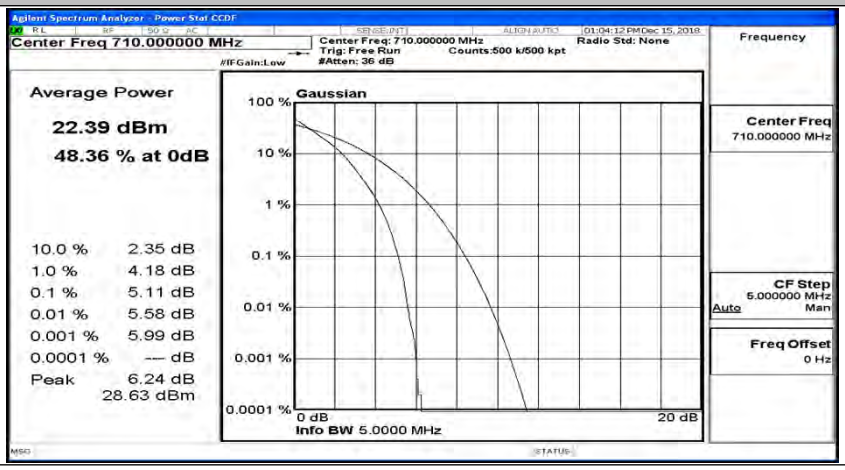
| Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 5.04 | <13 | PASS |
| | MCH | 5.11 | <13 | PASS |
| | HCH | 4.99 | <13 | PASS |
| 16QAM | LCH | 5.89 | <13 | PASS |
| | MCH | 5.94 | <13 | PASS |
| | HCH | 5.85 | <13 | PASS |

| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 5.17 | <13 | PASS |
| | MCH | 5.17 | <13 | PASS |
| | HCH | 5.16 | <13 | PASS |
| 16QAM | LCH | 5.9 | <13 | PASS |
| | MCH | 5.92 | <13 | PASS |
| | HCH | 5.95 | <13 | PASS |

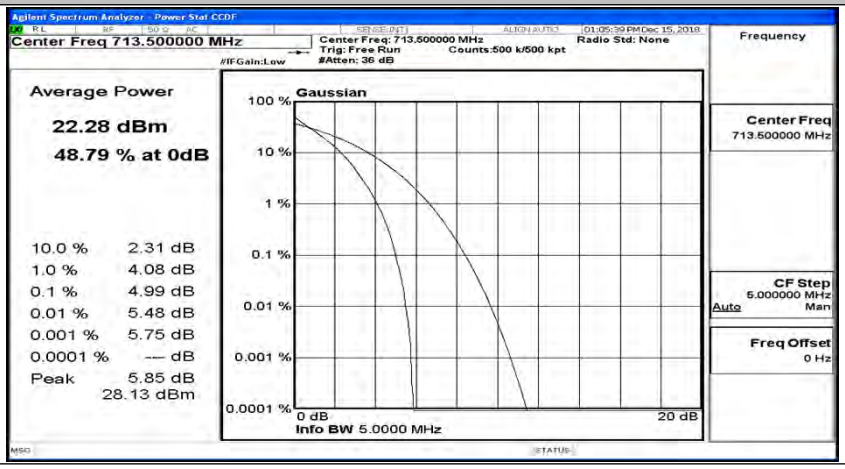
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



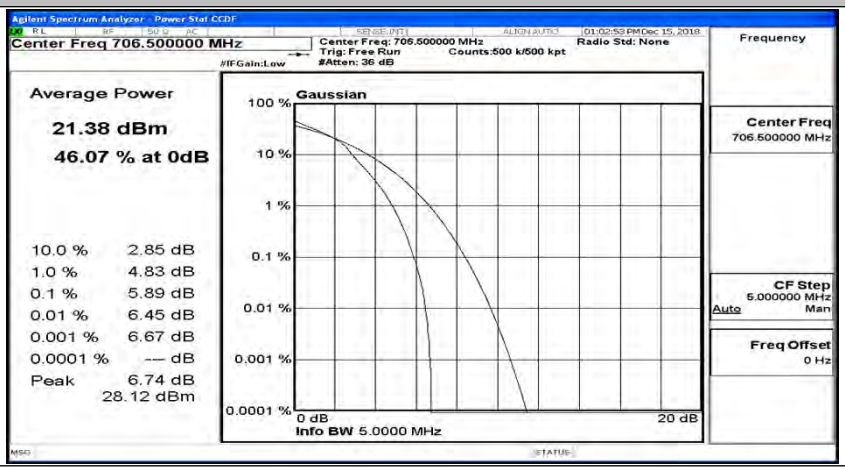

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



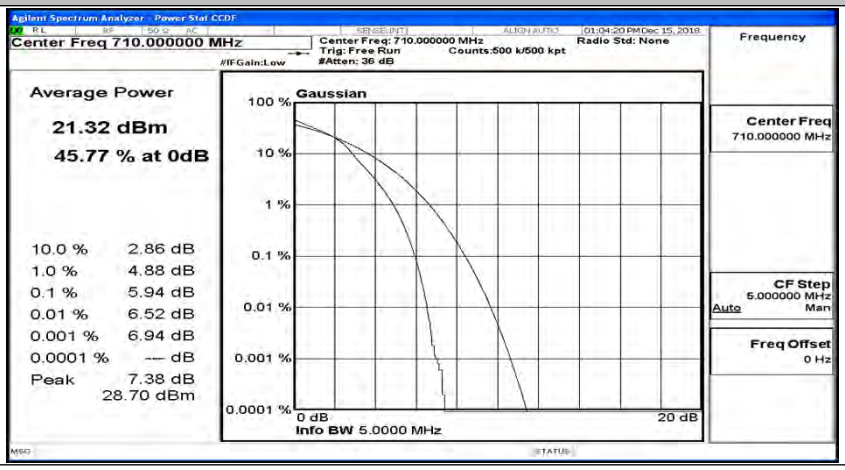

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



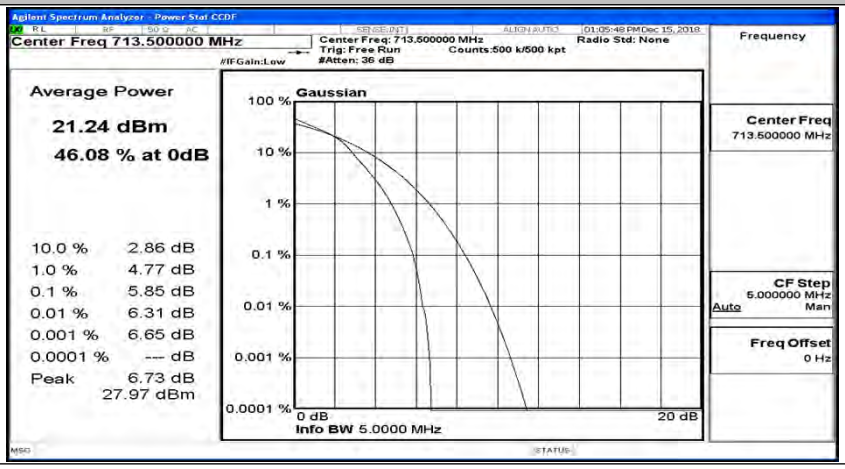
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



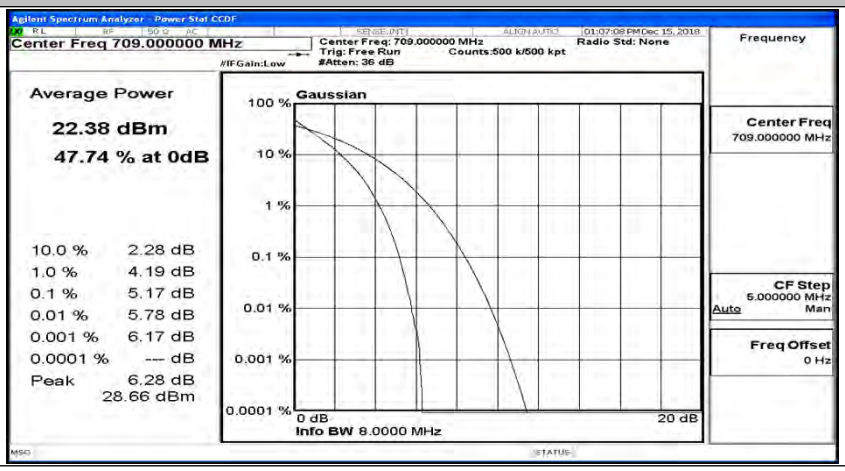

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



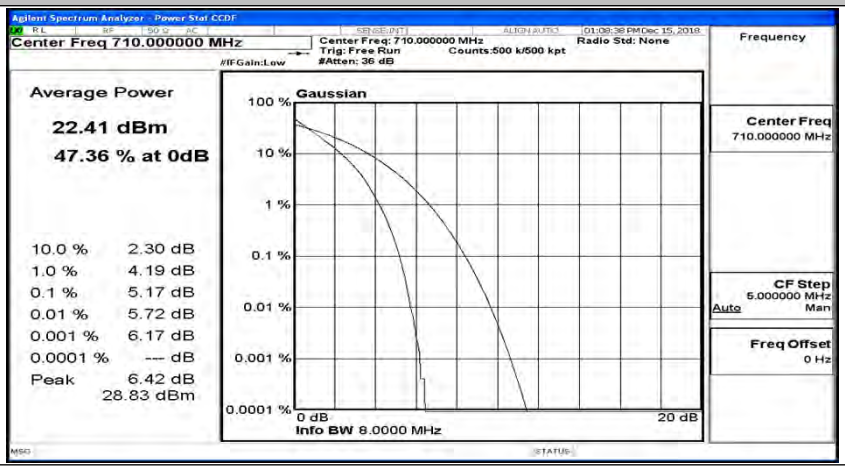

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



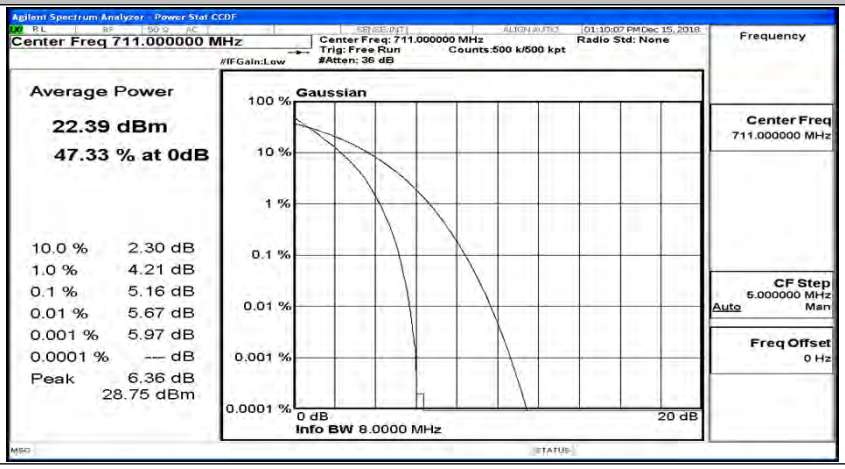
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



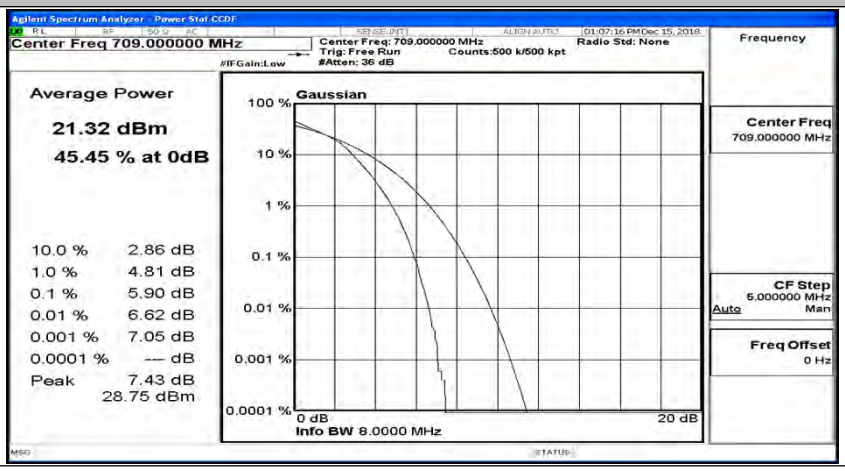

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



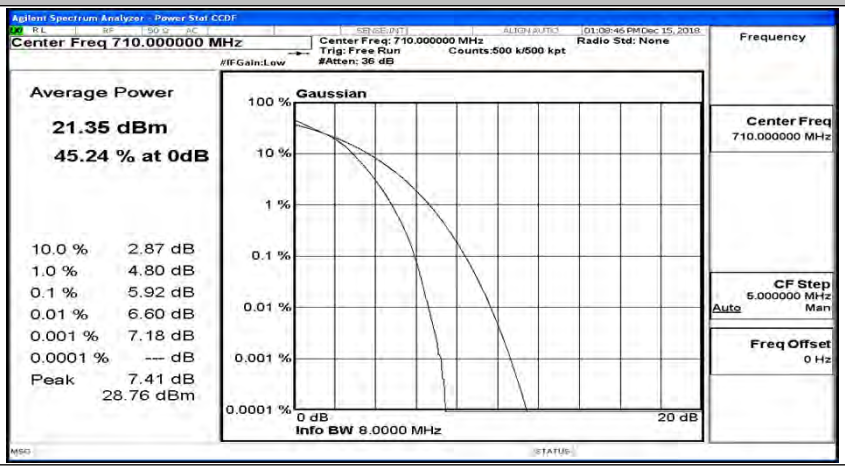

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



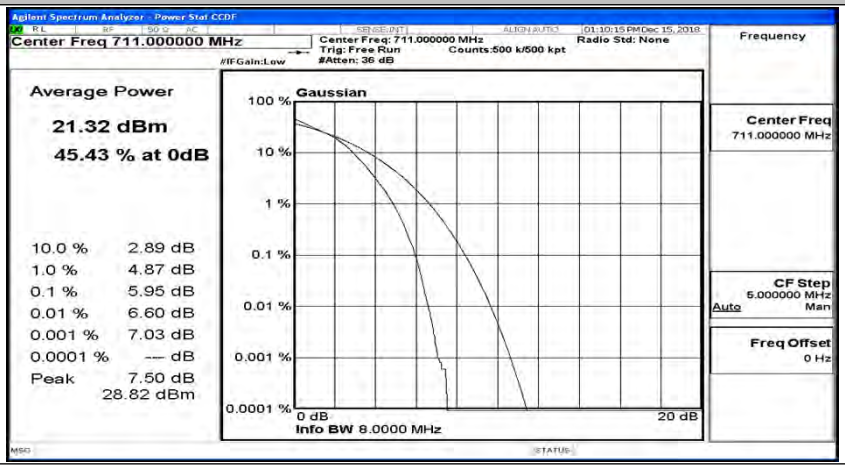
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

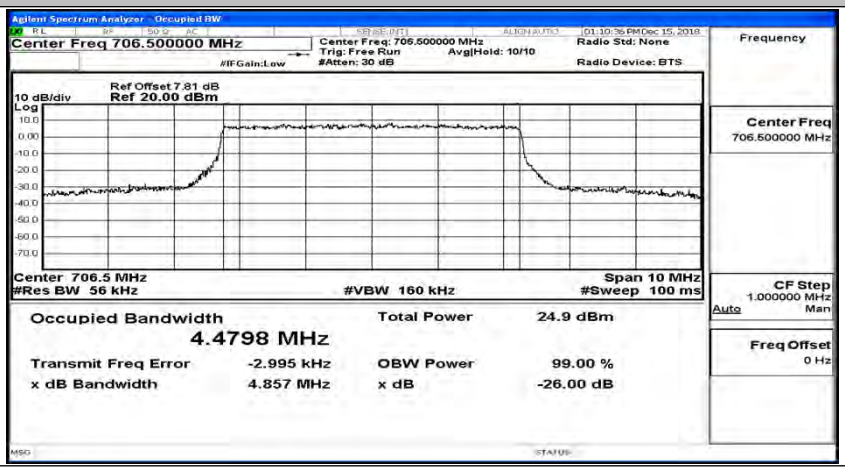


## E.3 26dB Bandwidth and Occupied Bandwidth

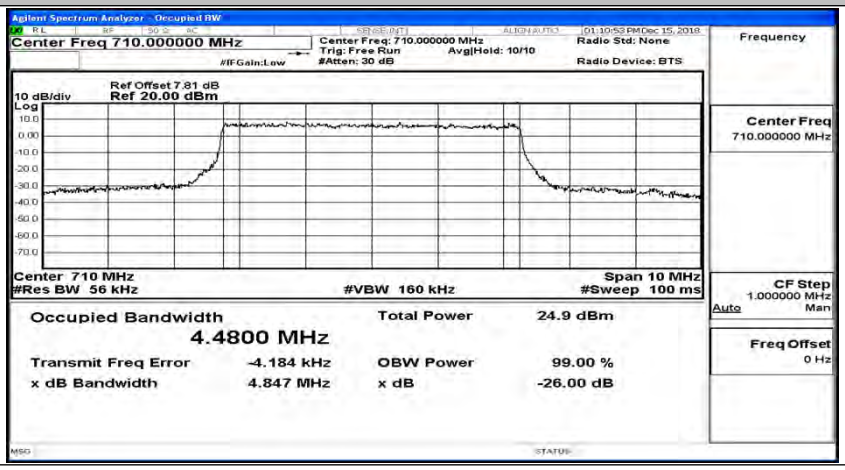
| EBW & OBW Test Result (Channel Bandwidth: 5 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK | LCH | 4.4798 | 4.857 | PASS |
| | MCH | 4.4800 | 4.847 | PASS |
| | HCH | 4.4822 | 4.898 | PASS |
| 16QAM | LCH | 4.4642 | 4.879 | PASS |
| | MCH | 4.4798 | 4.851 | PASS |
| | HCH | 4.4765 | 4.840 | PASS |

| EBW & OBW Test Result (Channel Bandwidth: 10 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK | LCH | 8.9424 | 9.513 | PASS |
| | MCH | 8.9415 | 9.579 | PASS |
| | HCH | 8.9391 | 9.511 | PASS |
| 16QAM | LCH | 8.9362 | 9.552 | PASS |
| | MCH | 8.9325 | 9.436 | PASS |
| | HCH | 8.9590 | 9.458 | PASS |

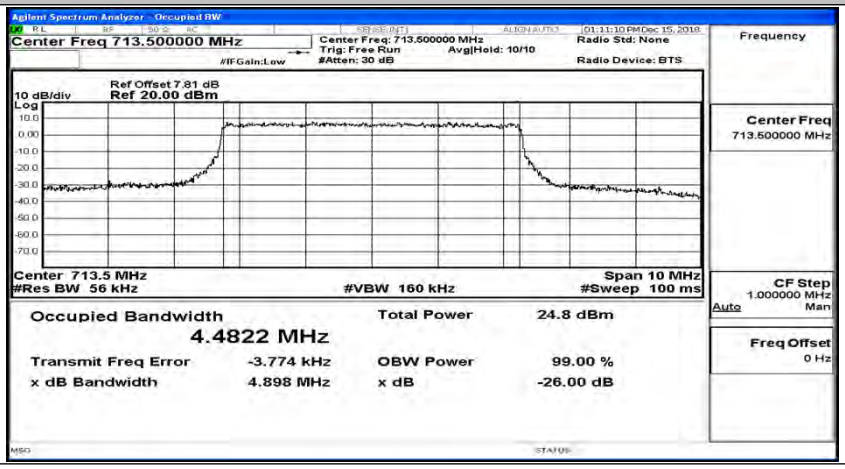
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



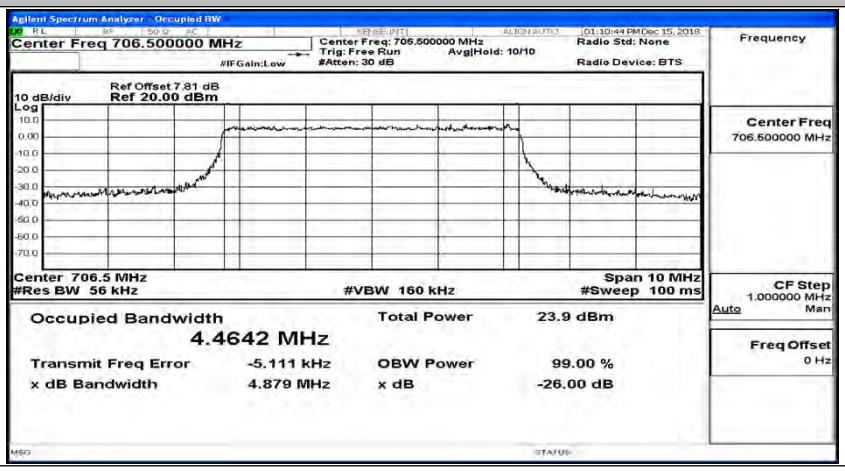

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



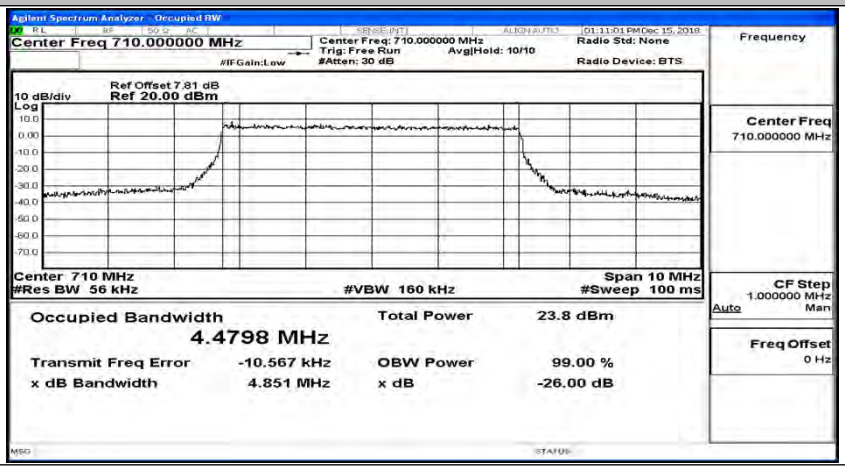

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



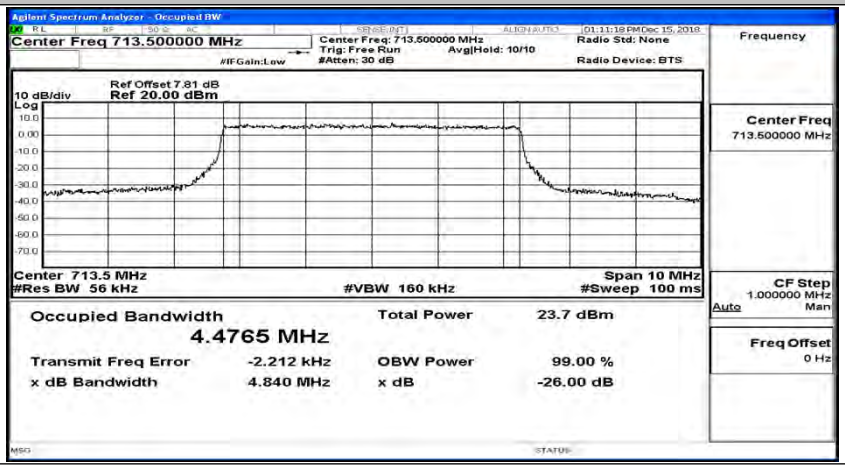
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



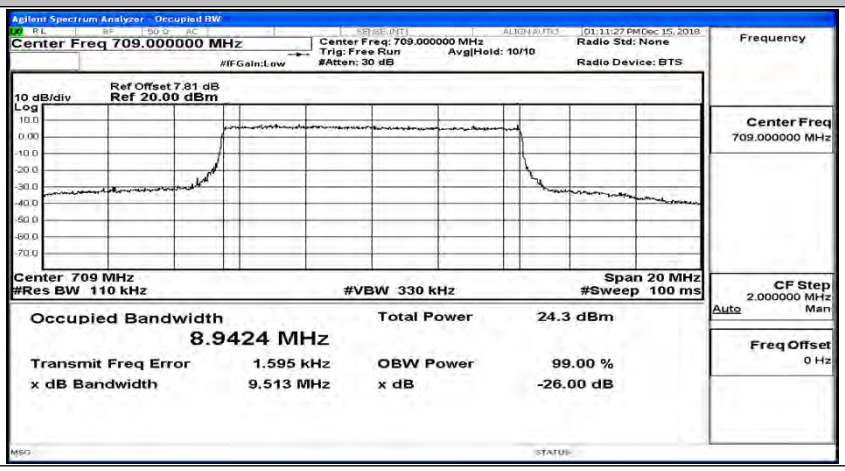

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



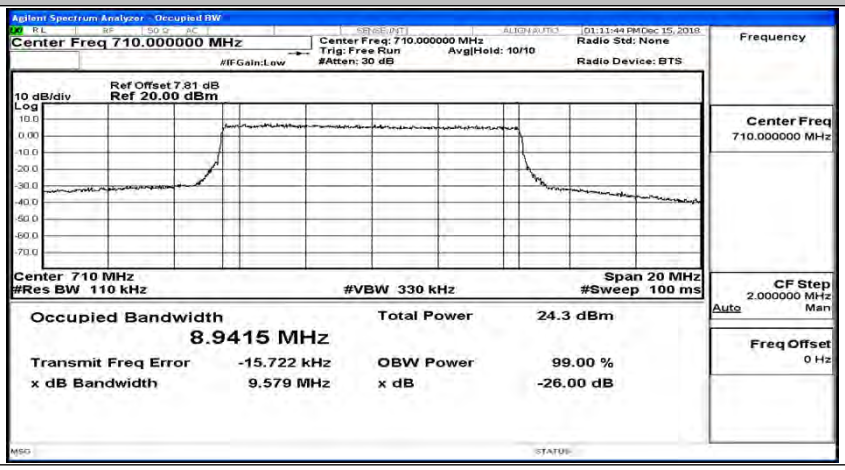

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



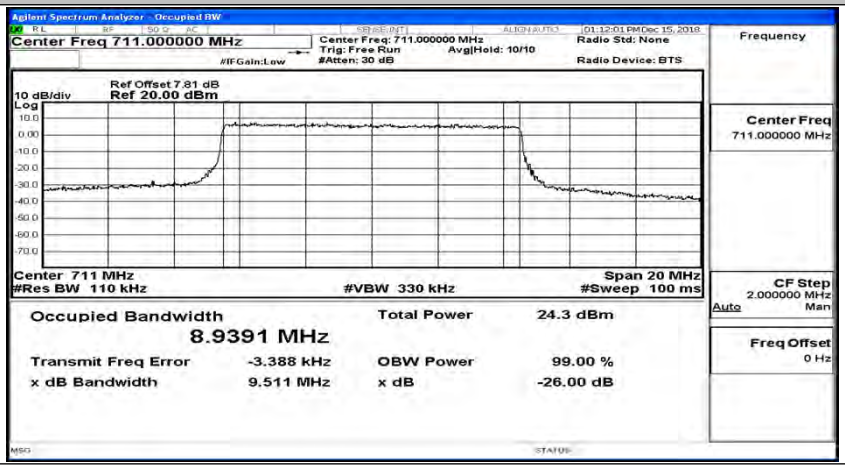
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



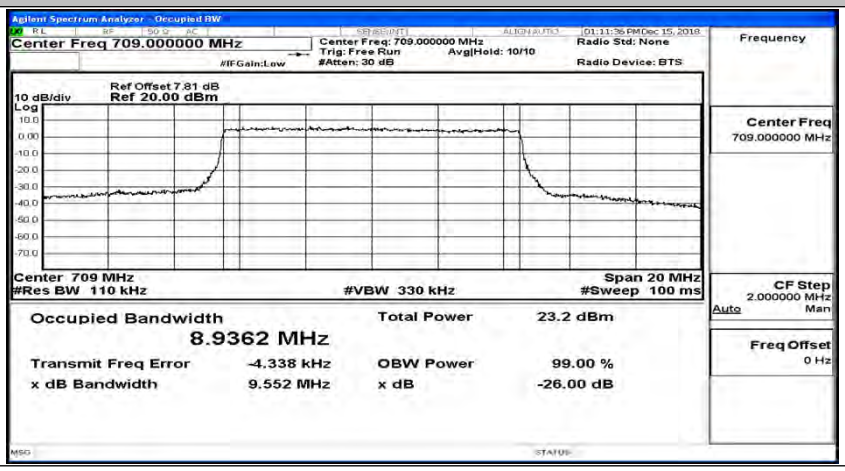

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



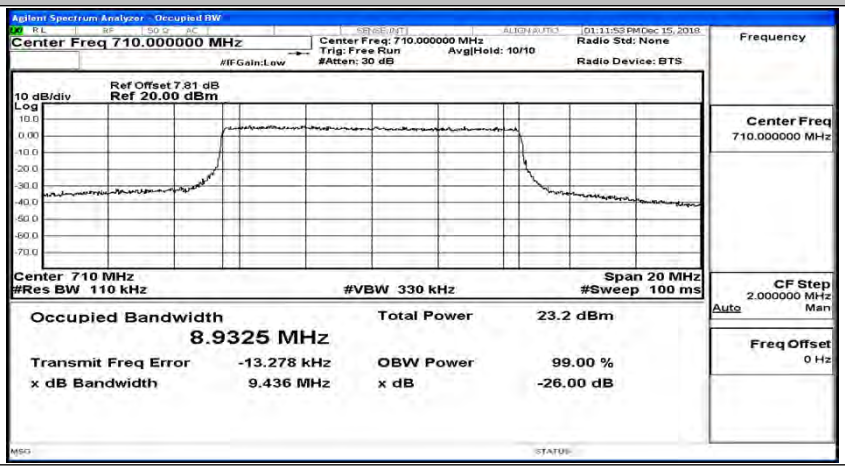

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



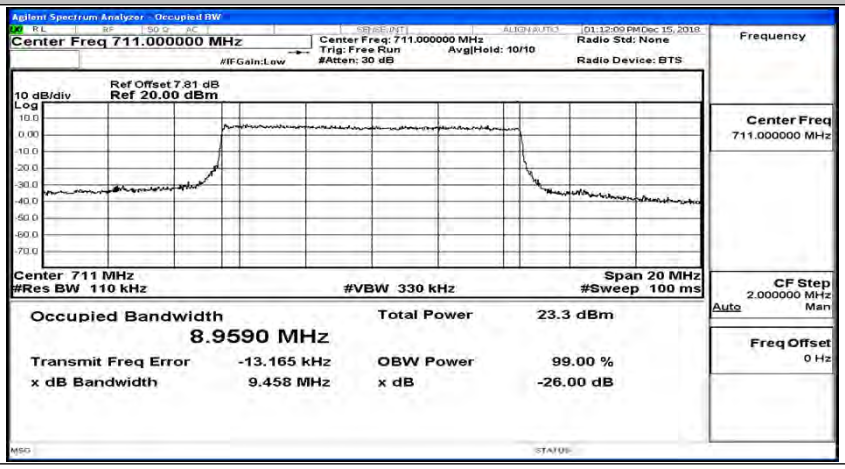
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM




EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

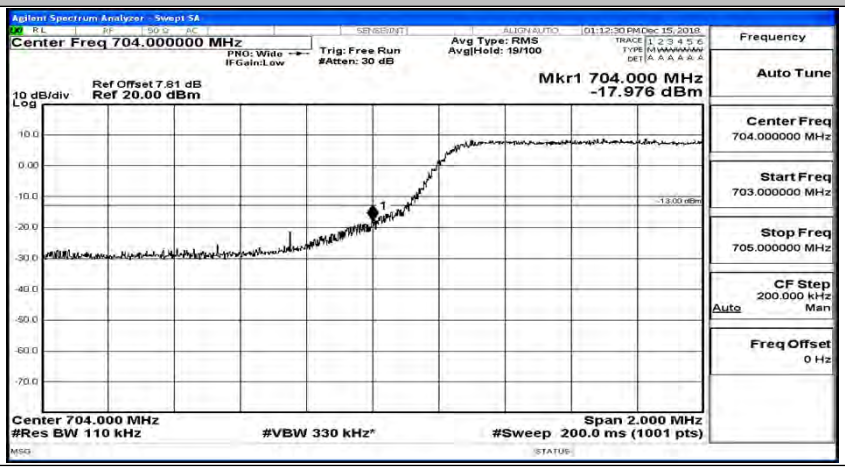



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

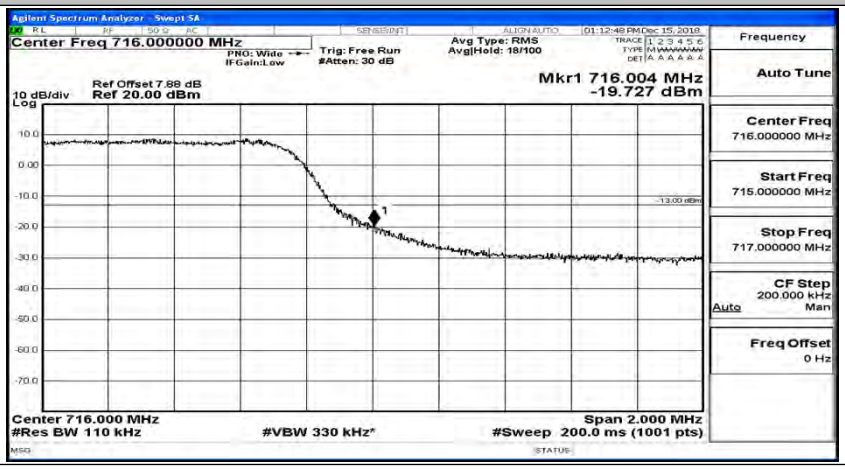


## E.4 Band Edge

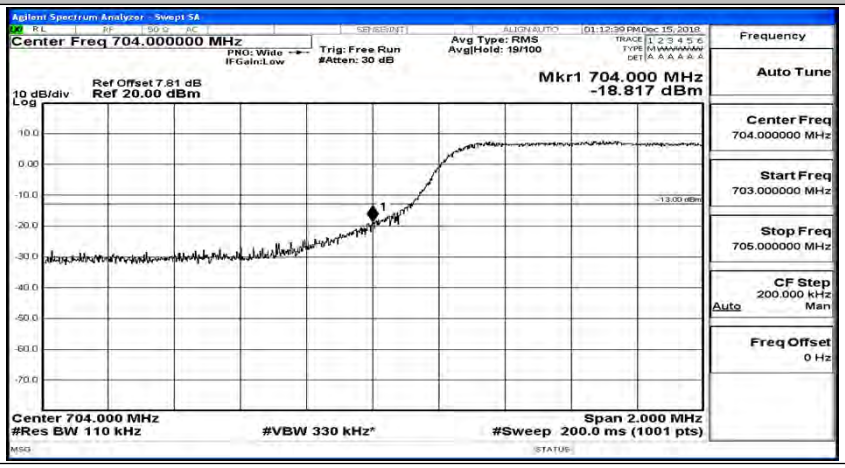
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



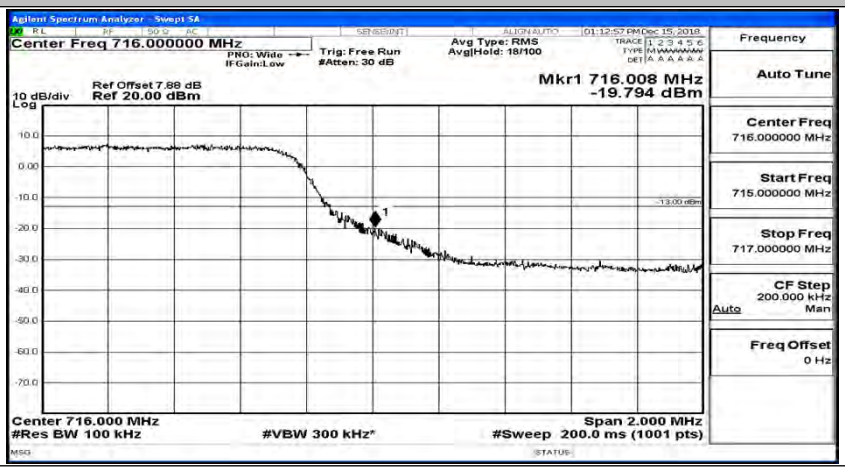

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



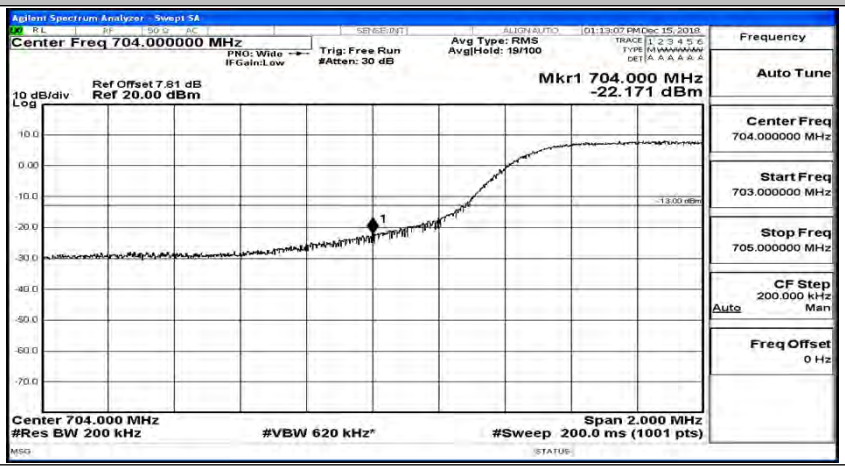

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



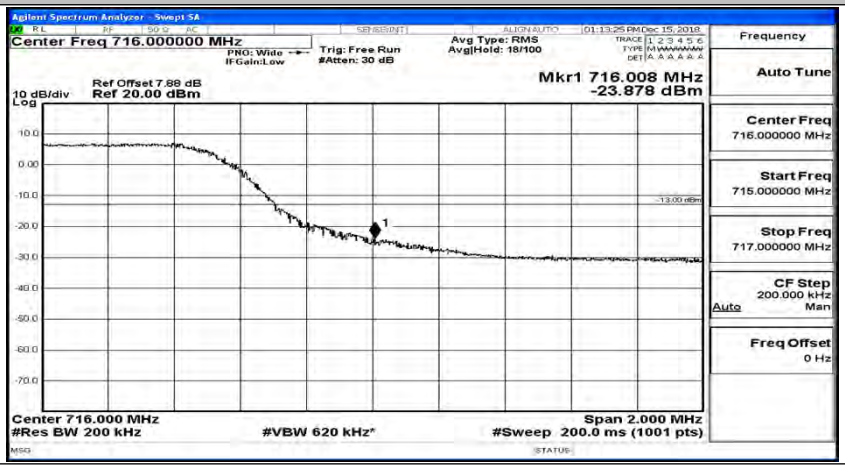
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



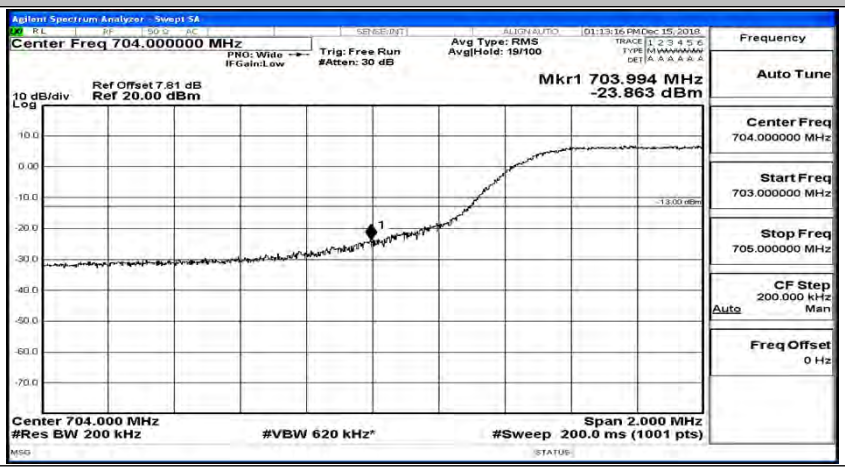

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



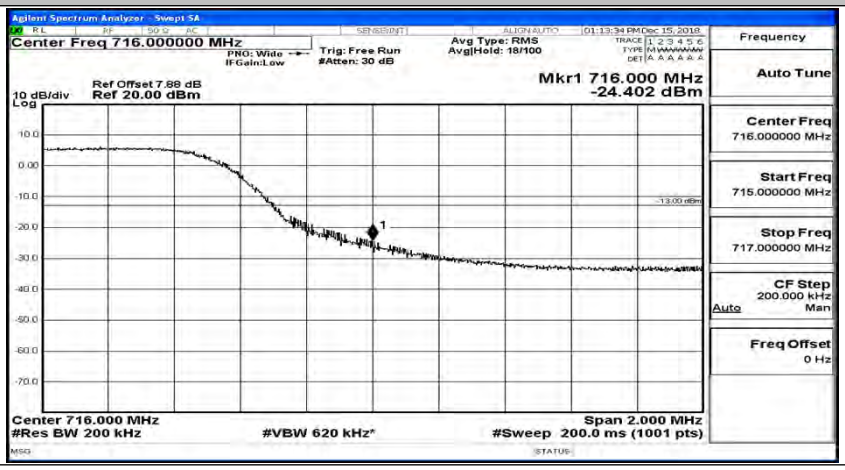

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



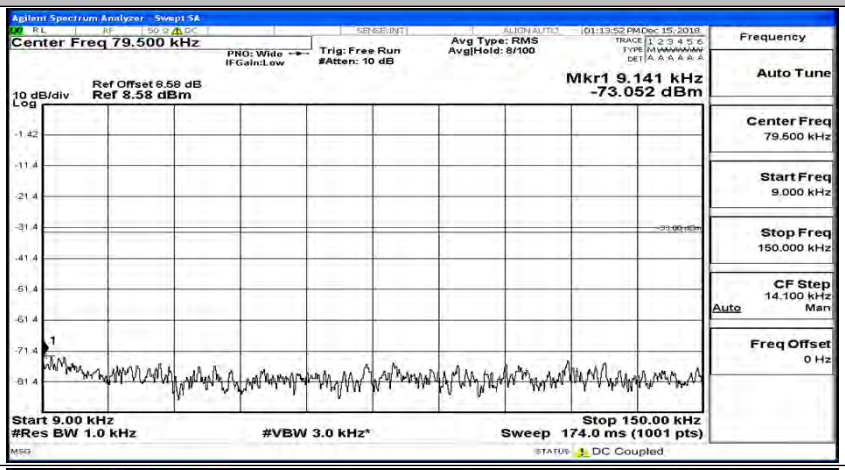
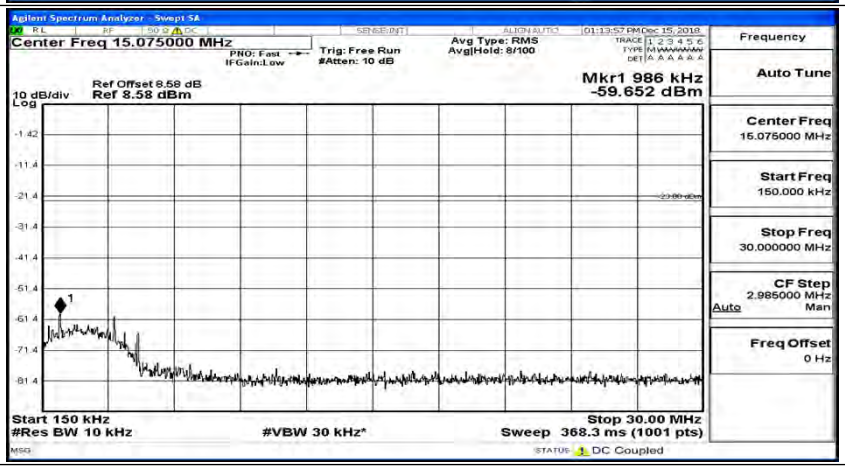
| Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM |
|---|

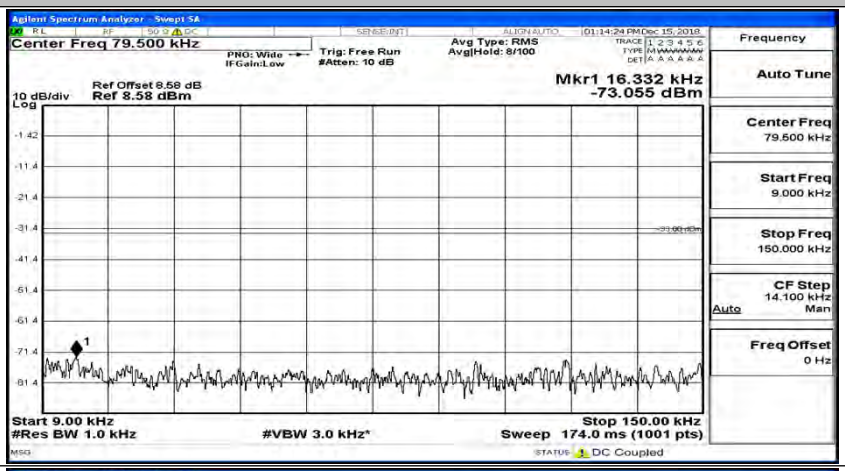
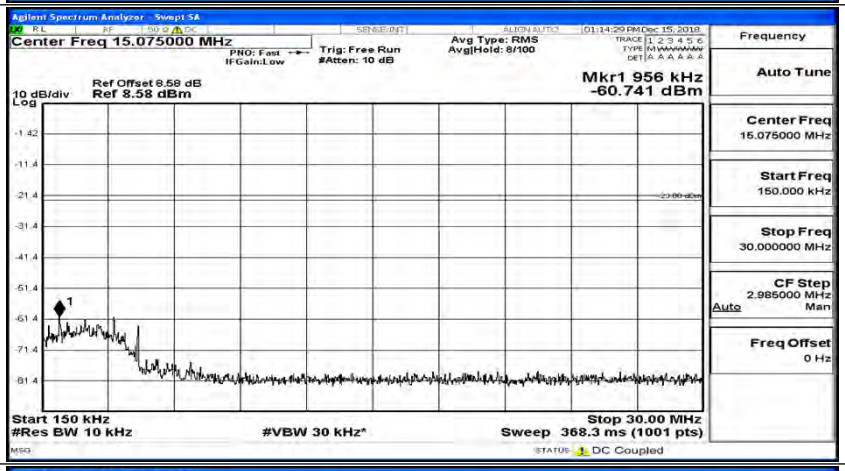


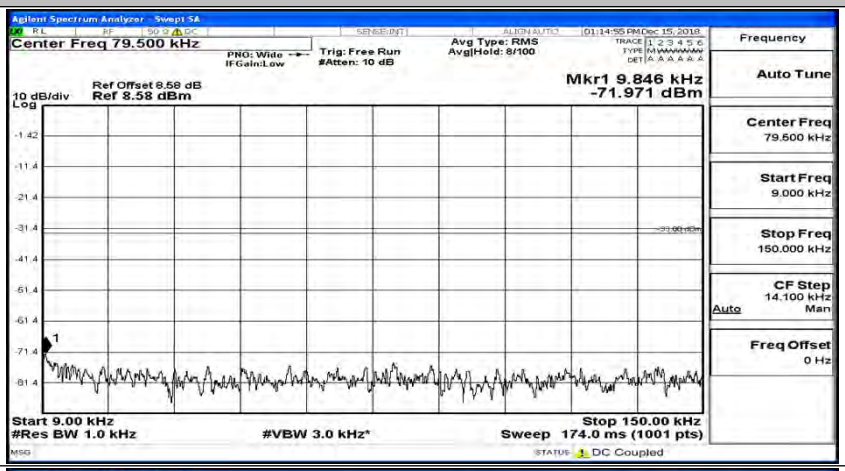
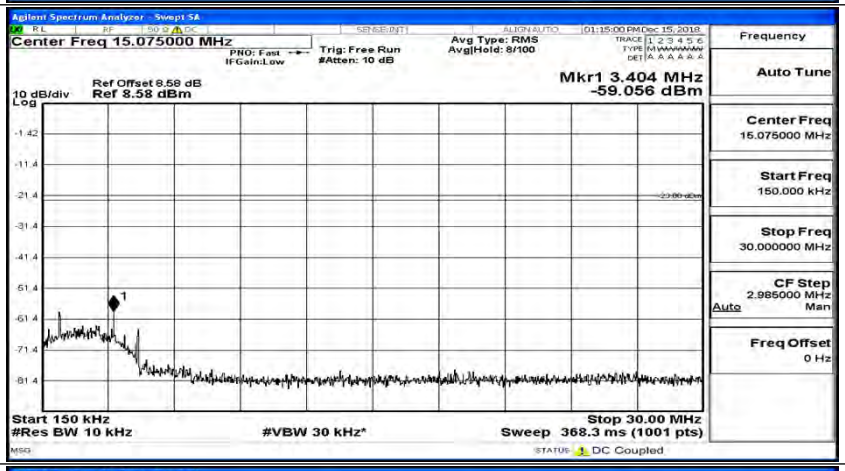

| Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM |
|---|

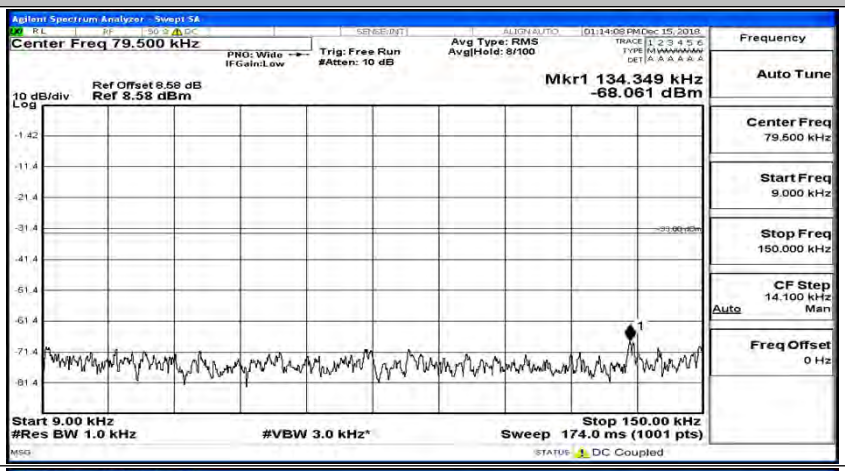
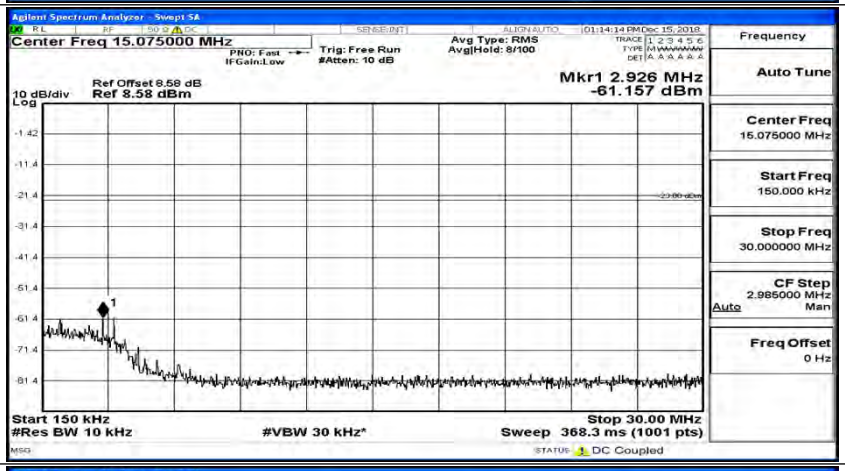


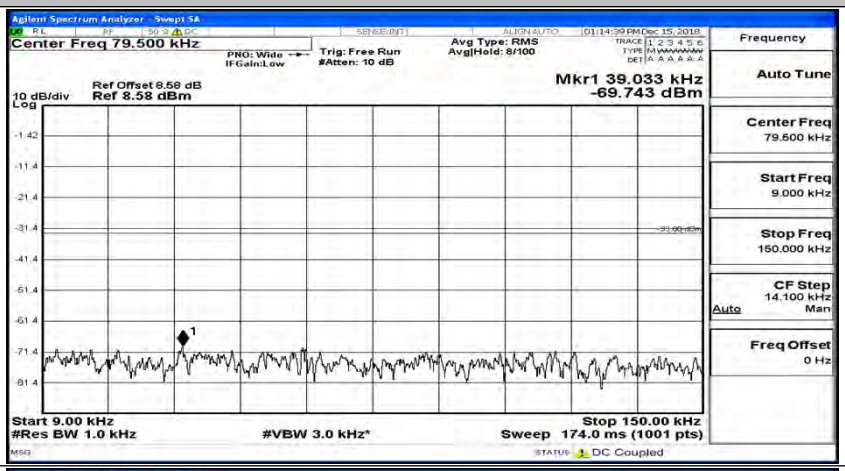
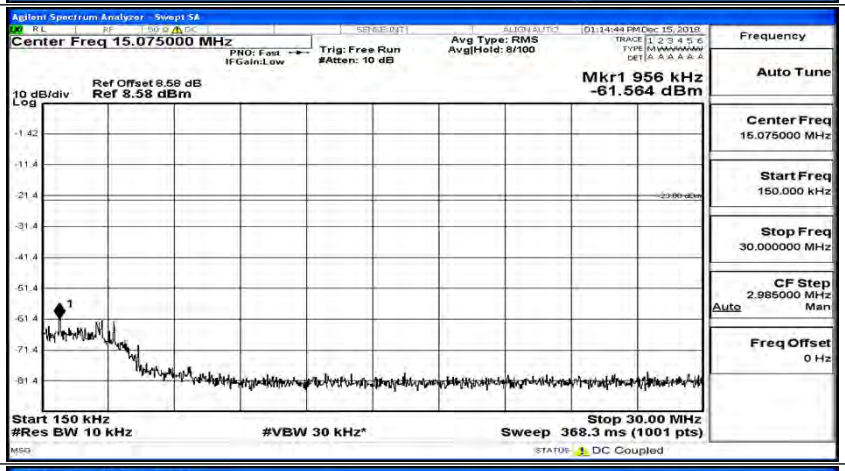
## E.5 Conducted Spurious Emission

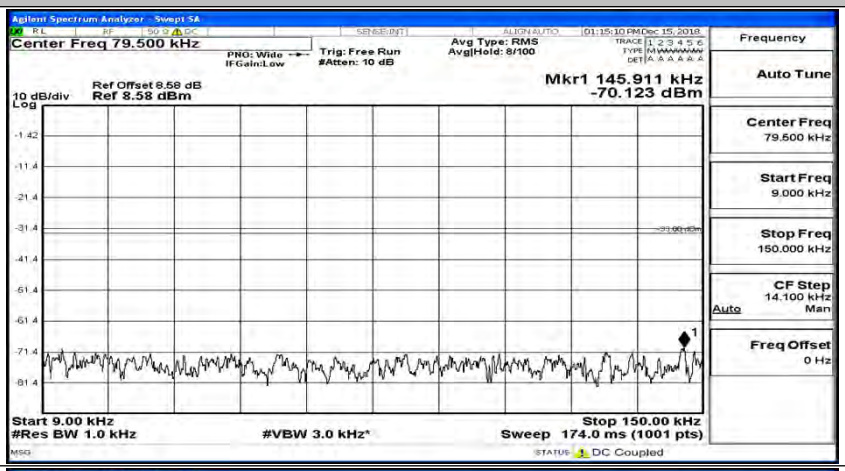
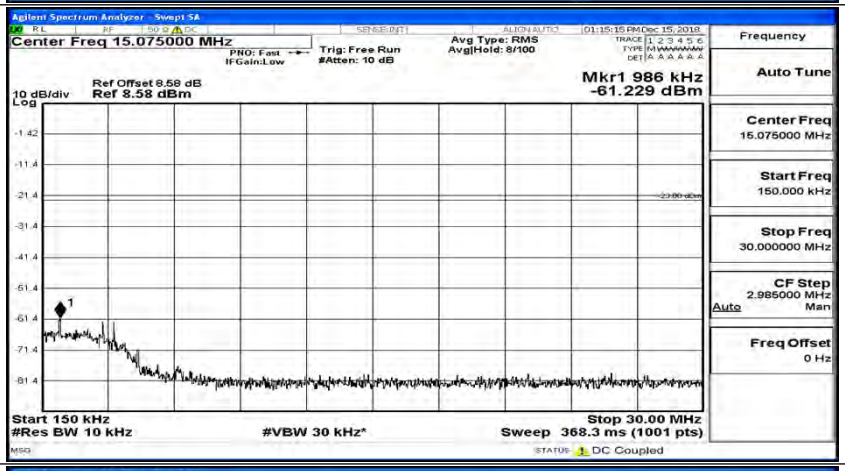
| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK |
|---|
|  |
|  |
|  |

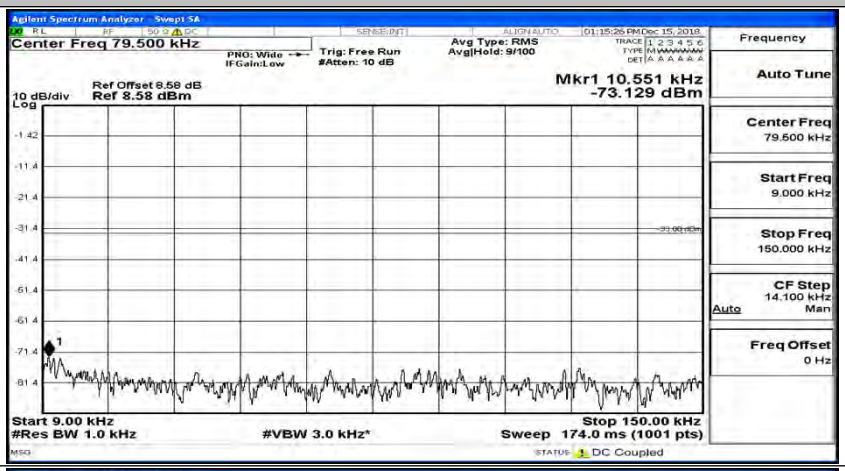
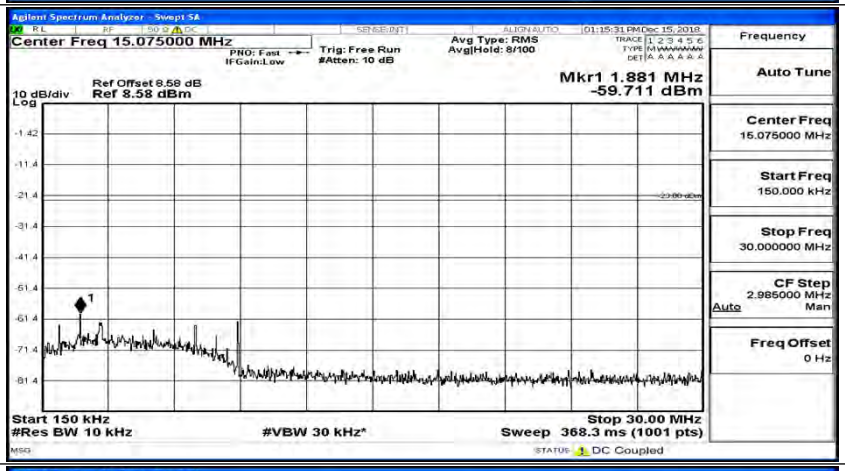
| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK |
|---|
|  |
|  |
|  |

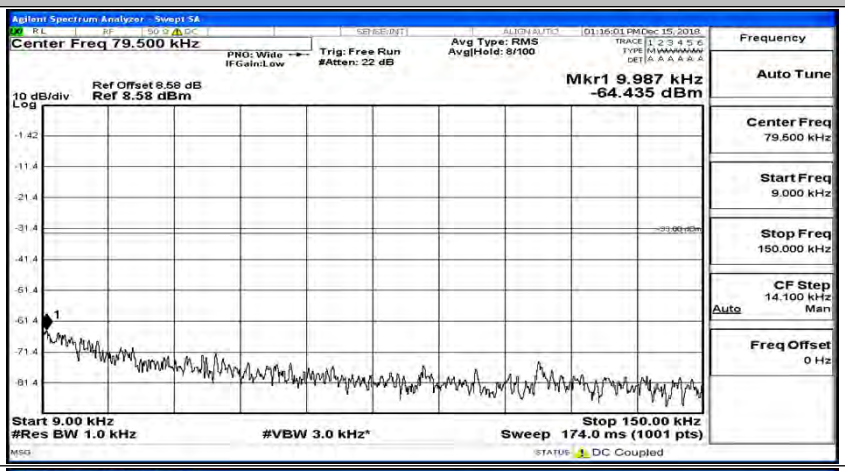
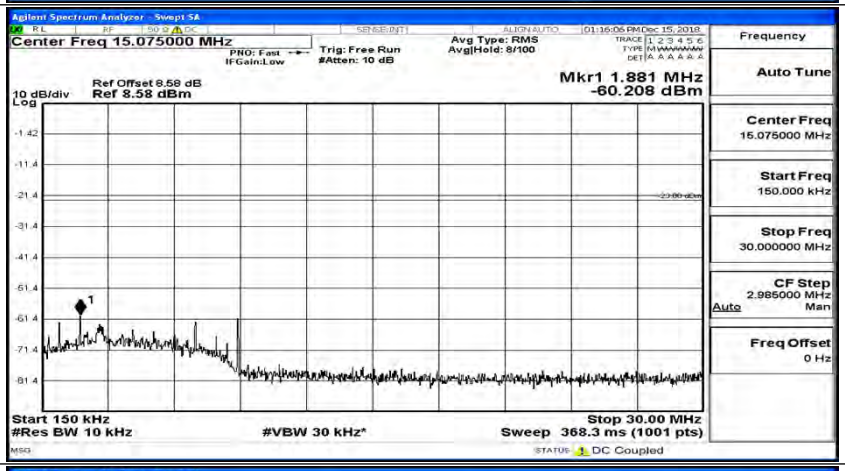
| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK |
|---|
|  |
|  |
|  |

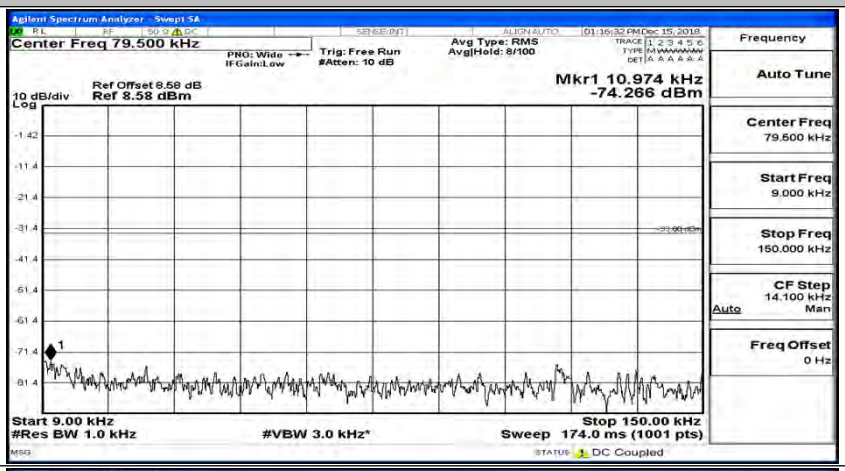
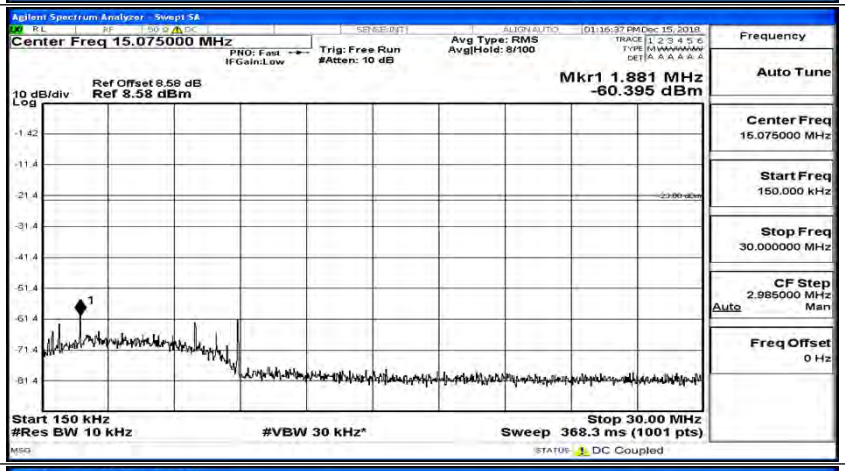
| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM |
|---|
|  |
|  |
|  |

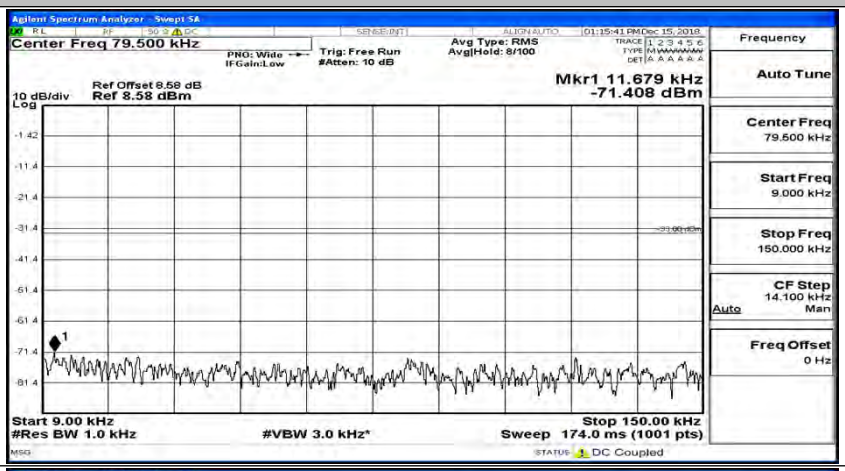
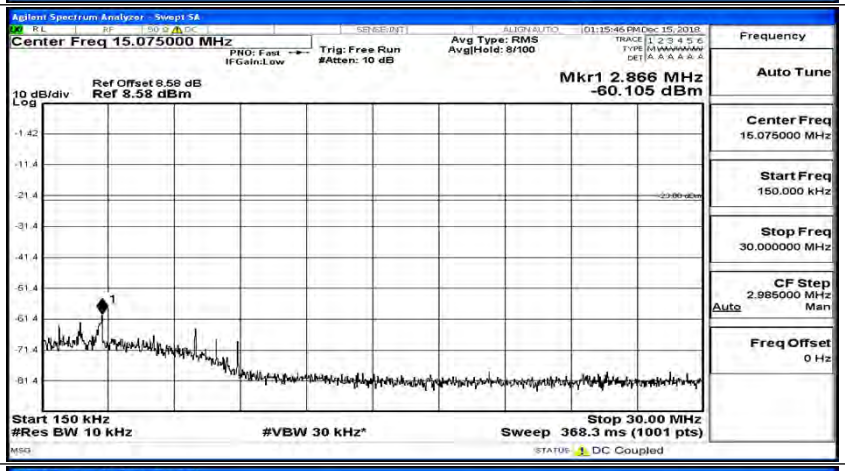
| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM |
|---|
|  |
|  |
|  |

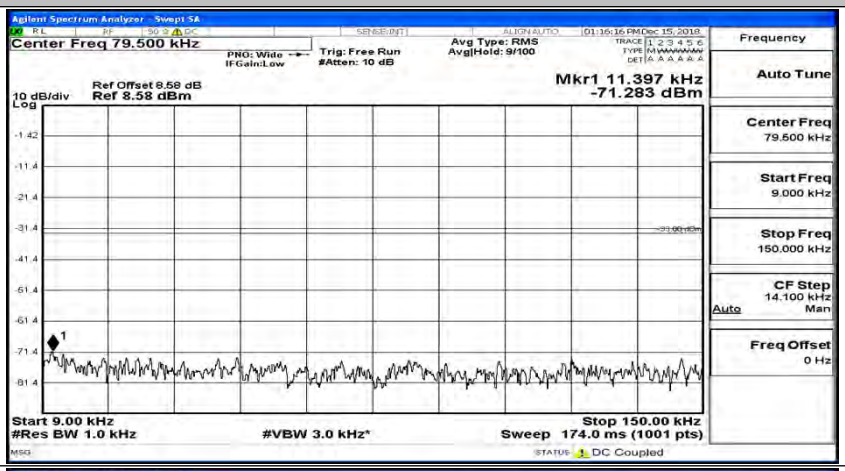
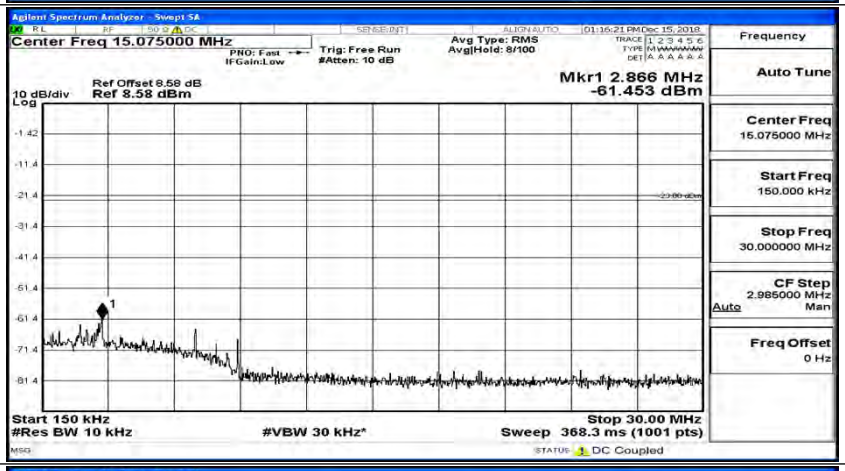
| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM |
|---|
|  |
|  |
|  |

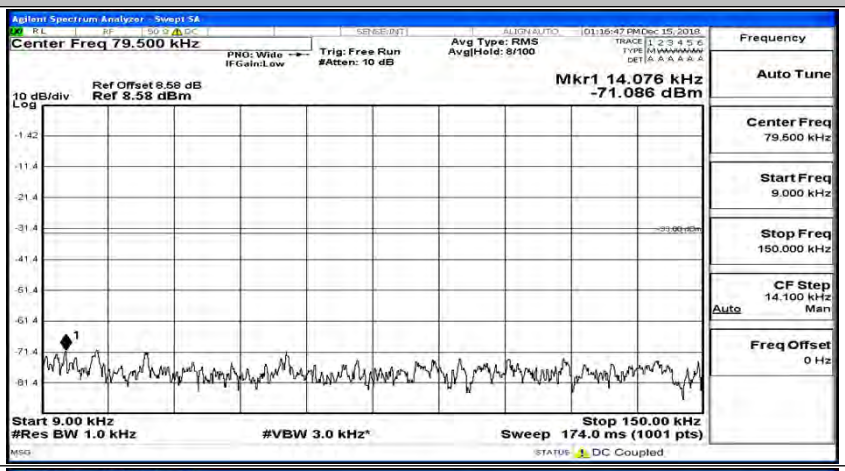
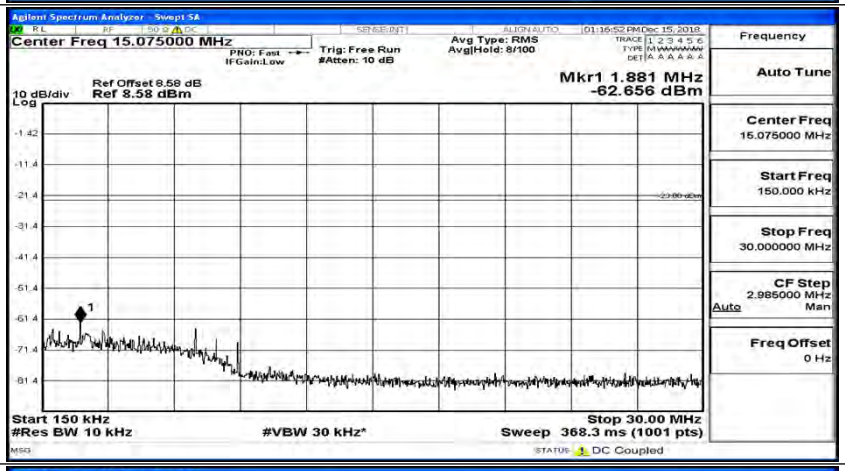
| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK |
|---|
|  |
|  |
|  |

| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK |
|---|
|  |
|  |
|  |

| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK |
|---|
|  |
|  |
|  |

| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM |
|---|
|  |
|  |
|  |

| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM |
|---|
|  |
|  |
|  |

| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM |
|---|
|  |
|  |
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