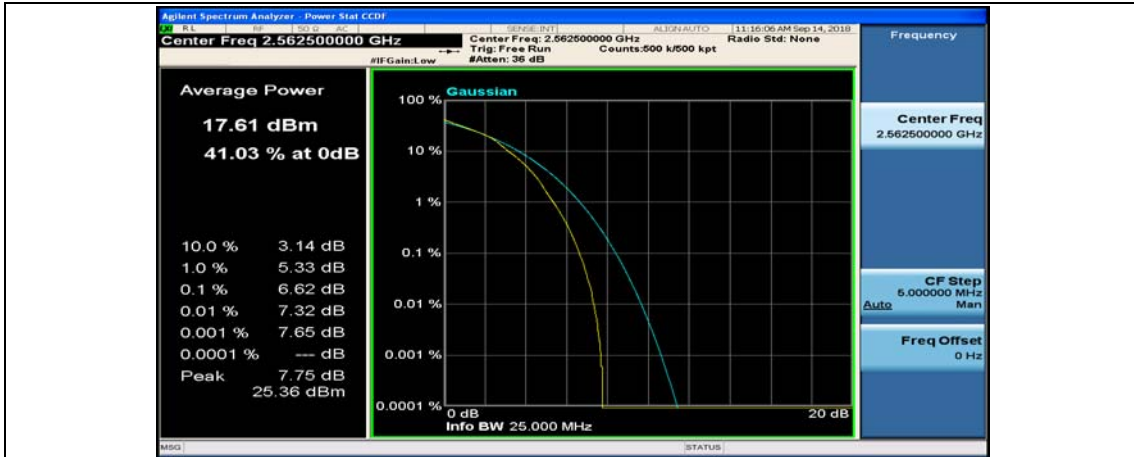(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



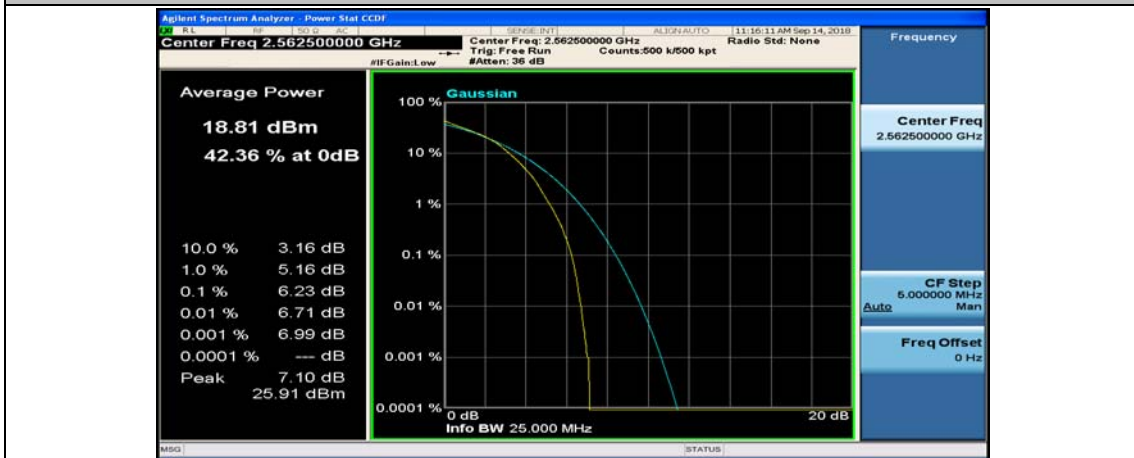(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#0
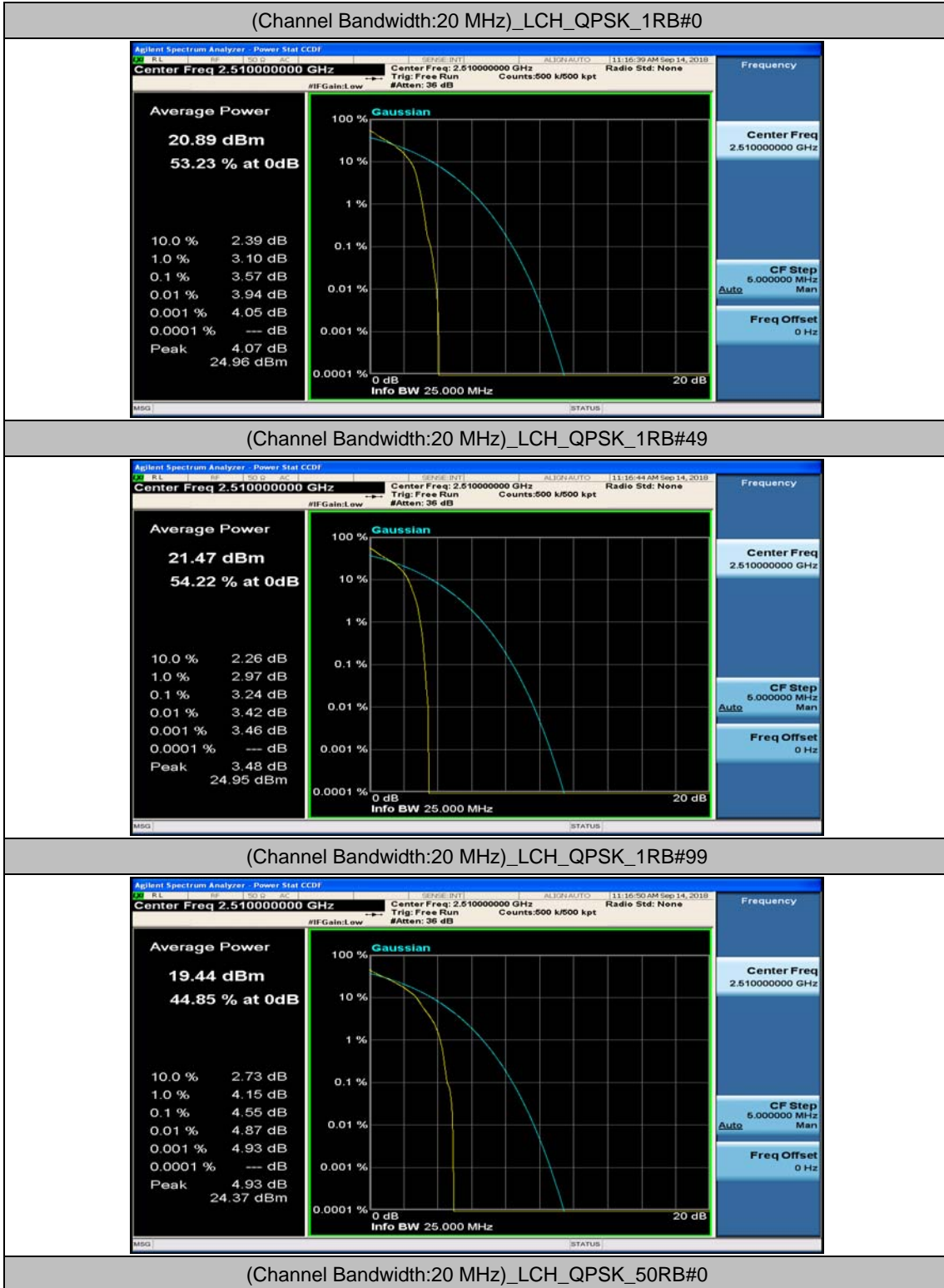


(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#38



(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

## Channel Bandwidth: 20 MHz

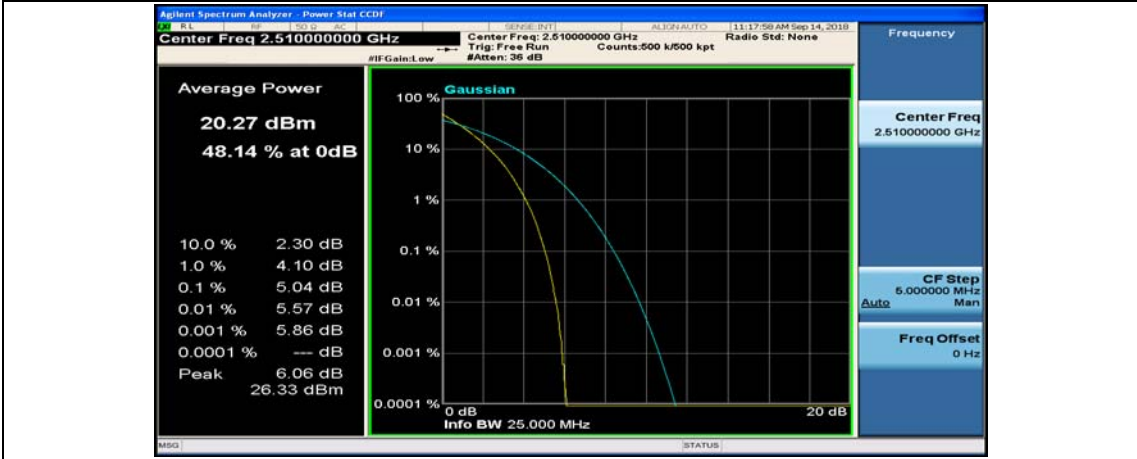| (Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0 |
|:---:|
|  |
| (Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49 |
|  |
| (Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99 |
|  |
| (Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0 |

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#25
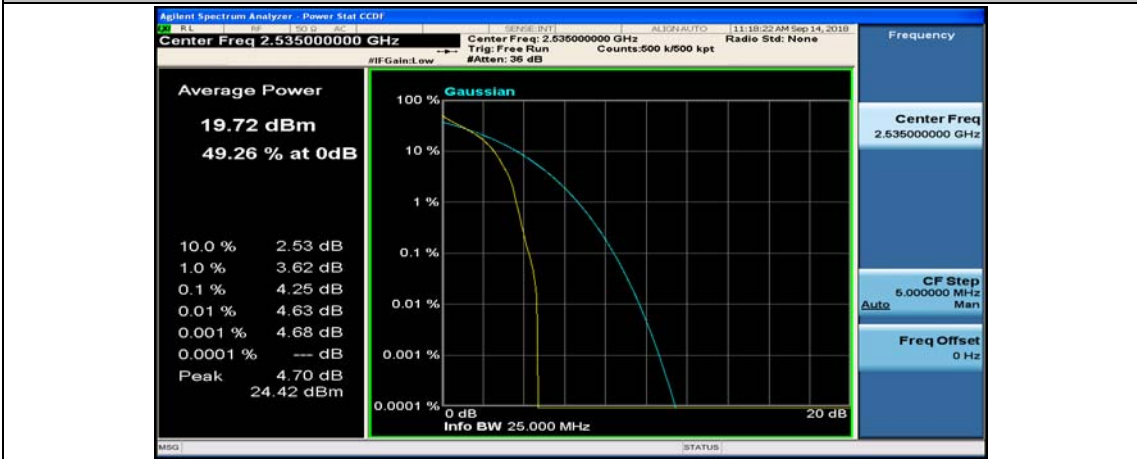


(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#50



(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0

| (Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0 |
|---|



| (Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49 |
|---|



| (Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99 |
|---|

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#0



(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#25



(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0



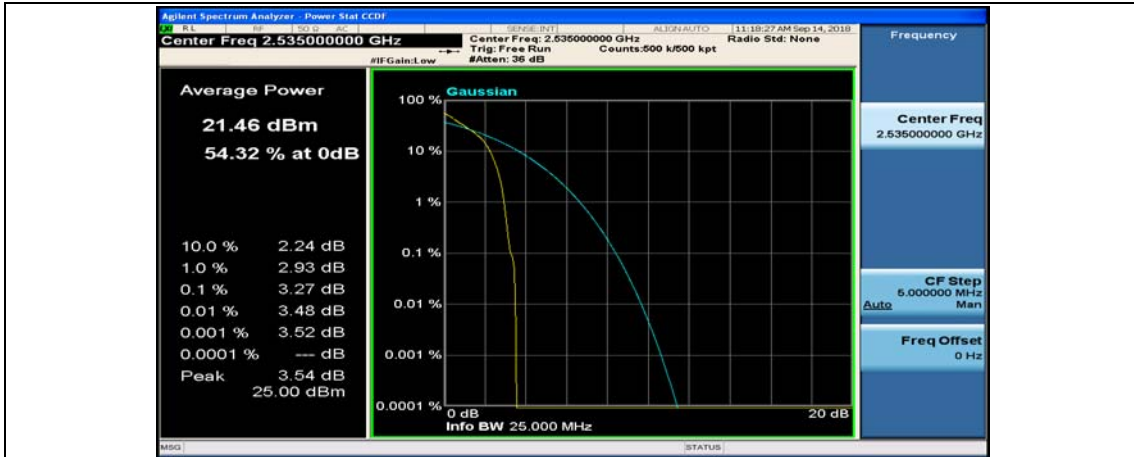(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0



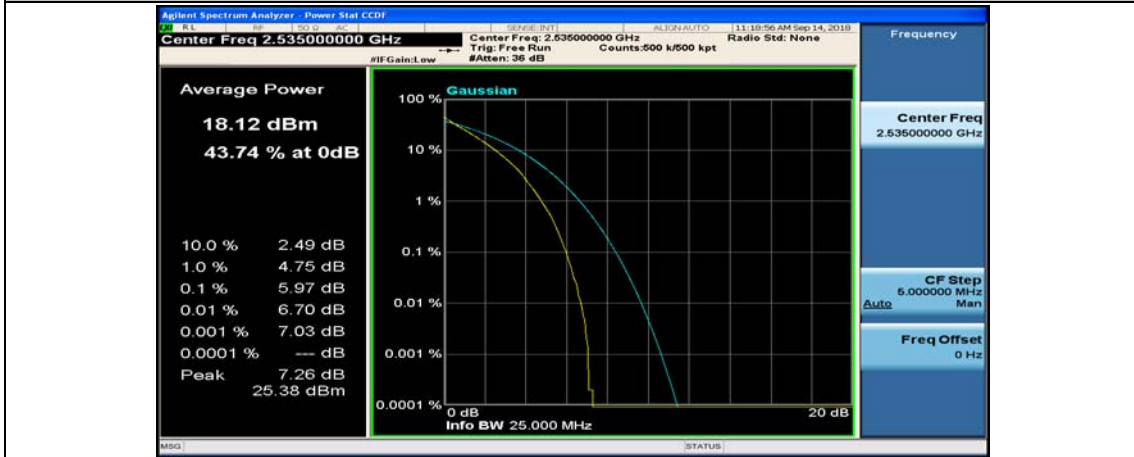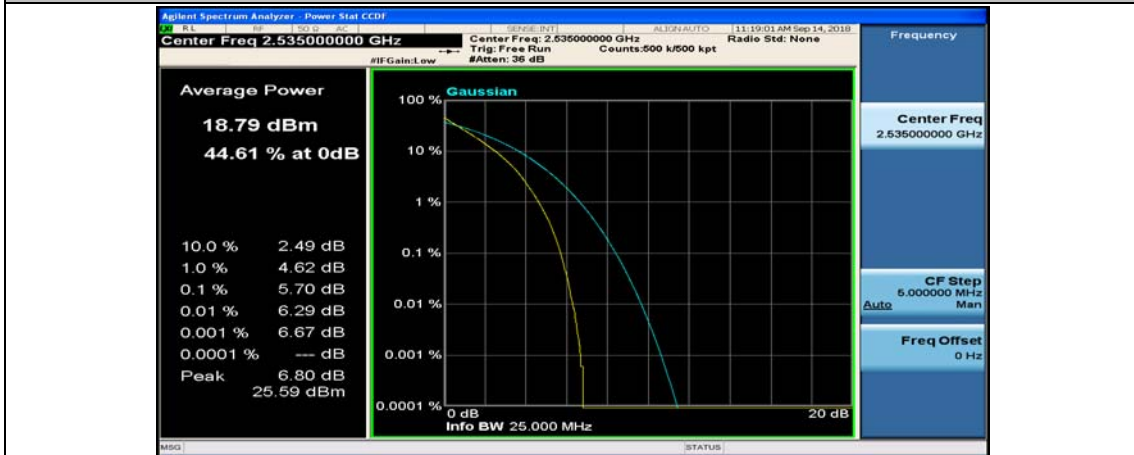(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49
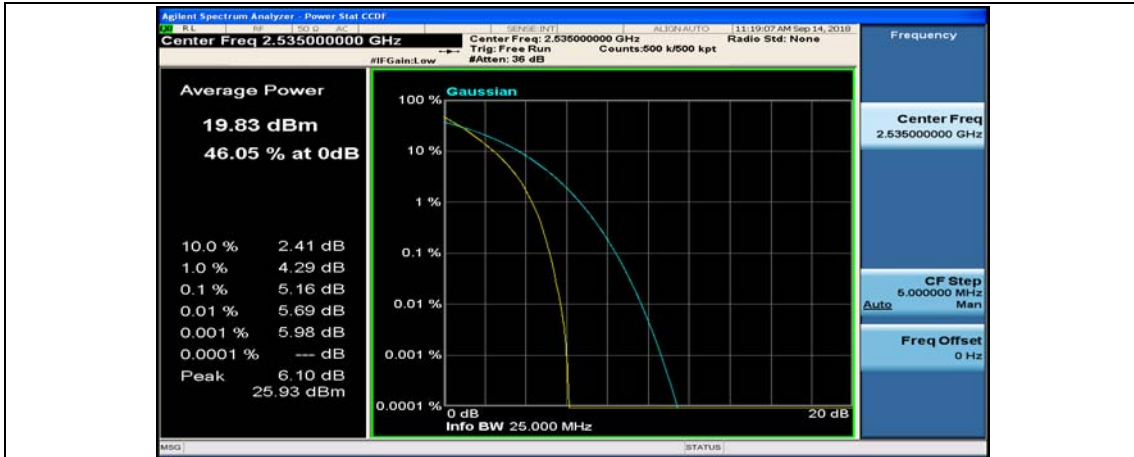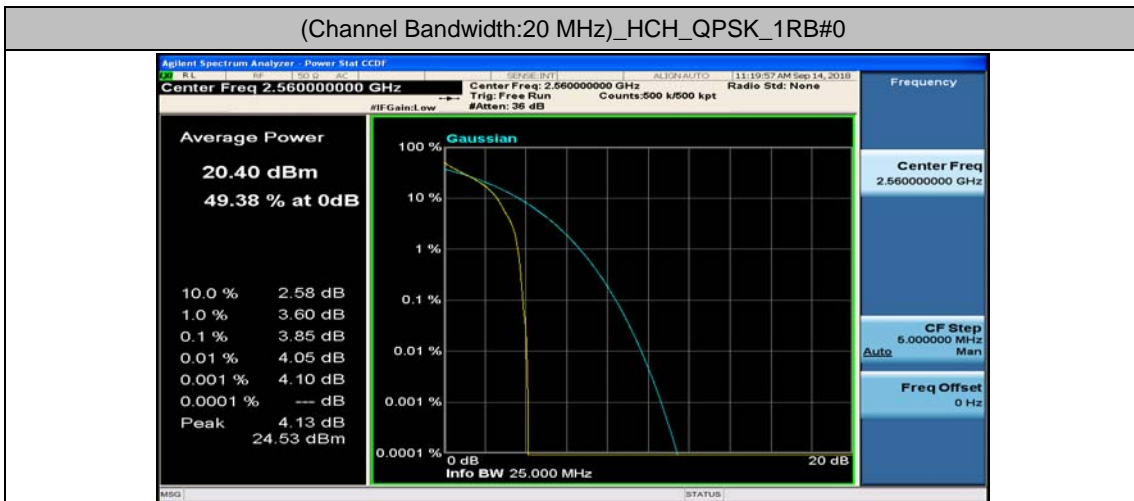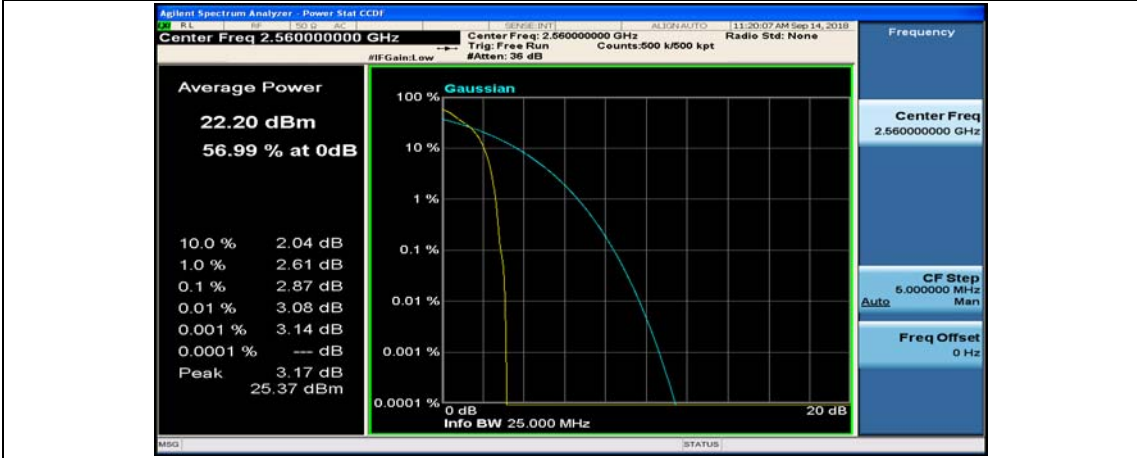
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99



(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#0
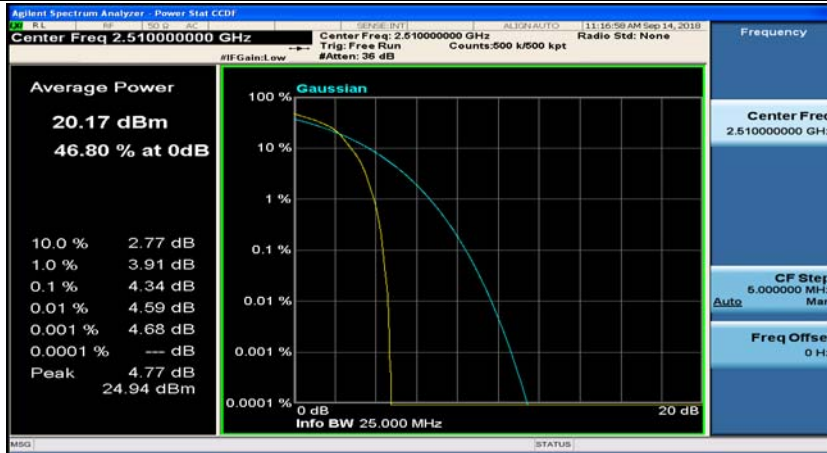


(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#25
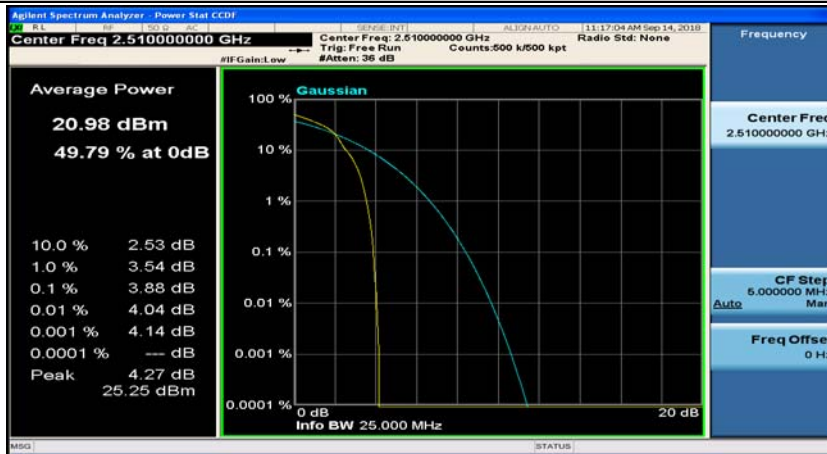
(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50
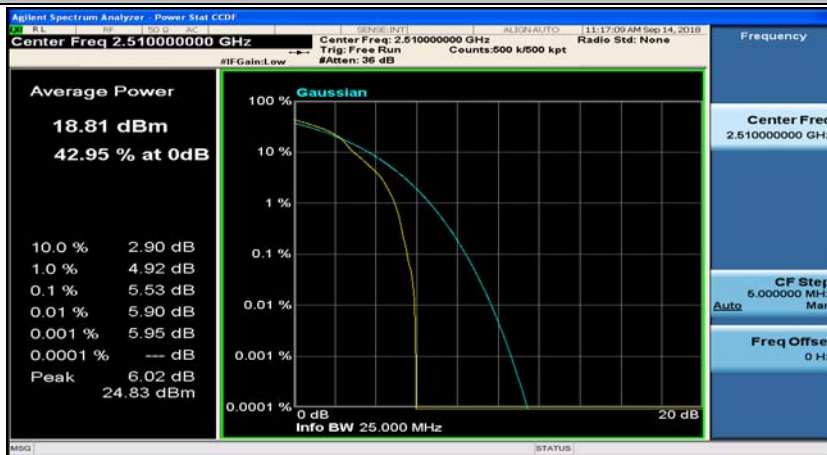


(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0 |
|---|

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 2.510000000 GHz
#IFGain:Low
Center Freq: 2.510000000 GHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
SENSE:INT   ALIGN AUTO   11:16:58 AM Sep 14, 2018

Average Power
20.17 dBm
46.80 % at 0dB

| 10.0 % | 2.77 dB |
| 1.0 % | 3.91 dB |
| 0.1 % | 4.34 dB |
| 0.01 % | 4.59 dB |
| 0.001 % | 4.68 dB |
| 0.0001 % | --- dB |
| Peak | 4.77 dB |
| | 24.94 dBm |

Info BW 25.000 MHz
Frequency
Center Freq 2.510000000 GHz
CF Step 5.000000 MHz  Auto  Man
Freq Offset 0 Hz

| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49 |
|---|

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 2.510000000 GHz
#IFGain:Low
Center Freq: 2.510000000 GHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
SENSE:INT   ALIGN AUTO   11:17:04 AM Sep 14, 2018

Average Power
20.98 dBm
49.79 % at 0dB

| 10.0 % | 2.53 dB |
| 1.0 % | 3.54 dB |
| 0.1 % | 3.88 dB |
| 0.01 % | 4.04 dB |
| 0.001 % | 4.14 dB |
| 0.0001 % | --- dB |
| Peak | 4.27 dB |
| | 25.25 dBm |

Info BW 25.000 MHz
Frequency
Center Freq 2.510000000 GHz
CF Step 5.000000 MHz  Auto  Man
Freq Offset 0 Hz

| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99 |
|---|

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 2.510000000 GHz
#IFGain:Low
Center Freq: 2.510000000 GHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
SENSE:INT   ALIGN AUTO   11:17:09 AM Sep 14, 2018

Average Power
18.81 dBm
42.95 % at 0dB

| 10.0 % | 2.90 dB |
| 1.0 % | 4.92 dB |
| 0.1 % | 5.53 dB |
| 0.01 % | 5.90 dB |
| 0.001 % | 5.95 dB |
| 0.0001 % | --- dB |
| Peak | 6.02 dB |
| | 24.83 dBm |

Info BW 25.000 MHz
Frequency
Center Freq 2.510000000 GHz
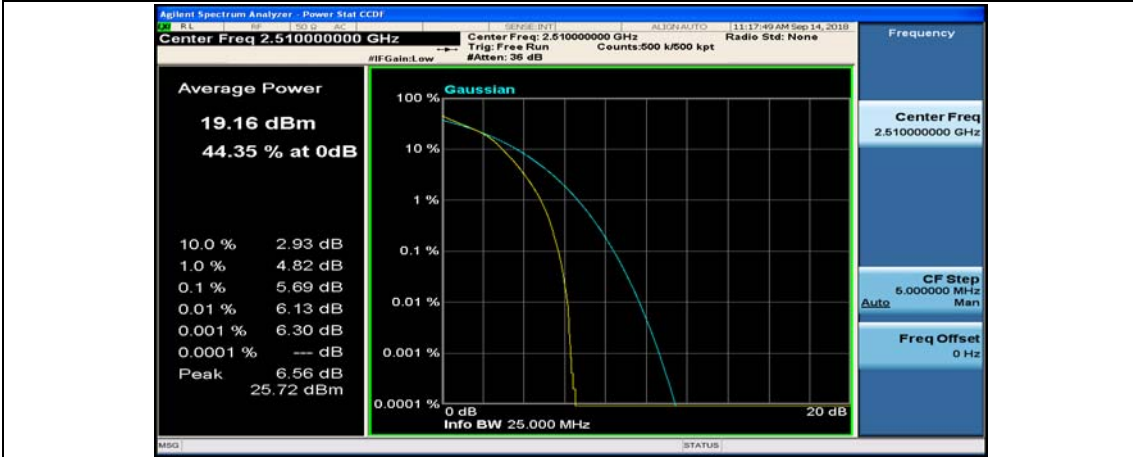CF Step 5.000000 MHz  Auto  Man
Freq Offset 0 Hz

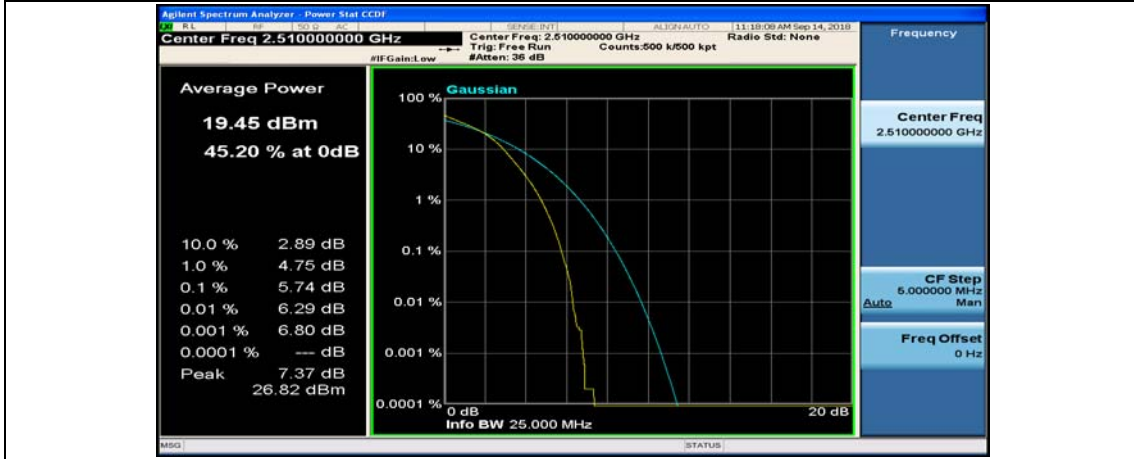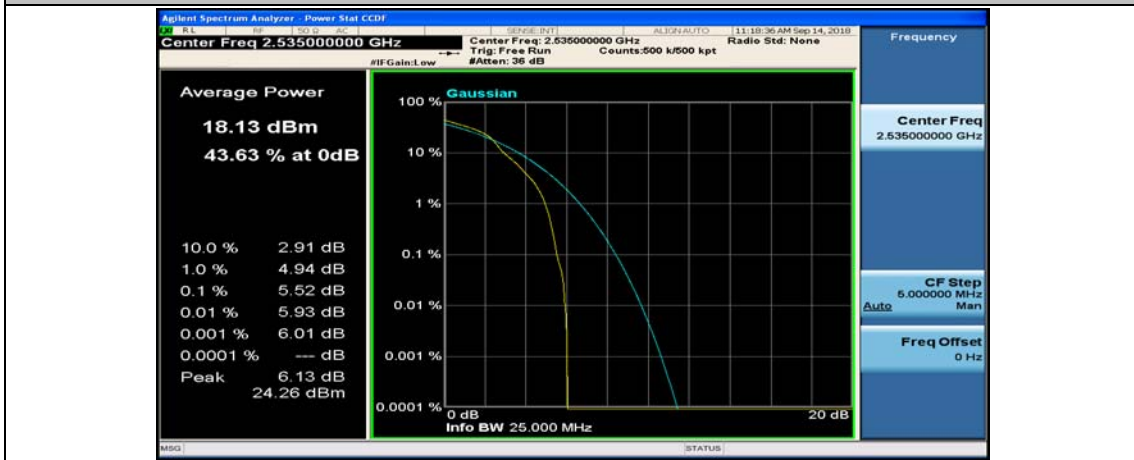| (Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0 |
|---|

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#25



(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#50
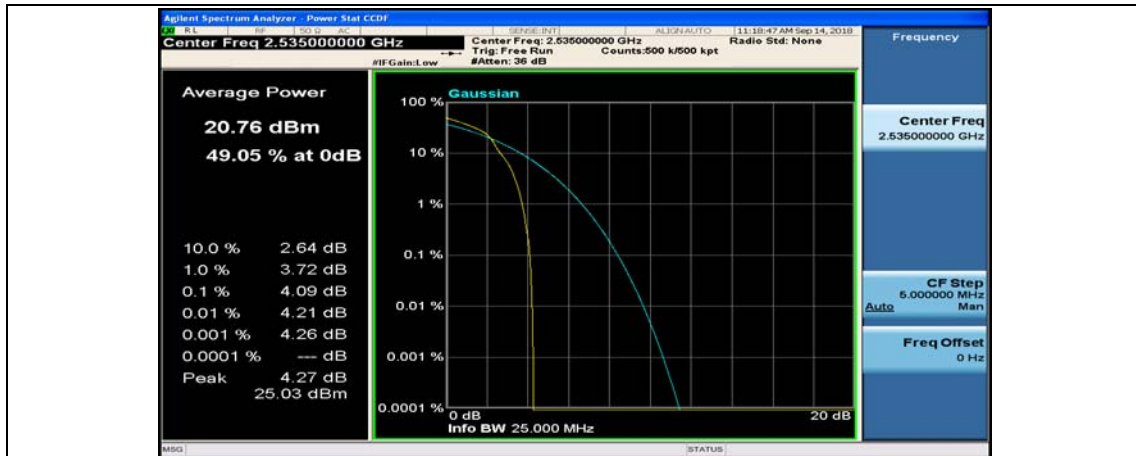


(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0
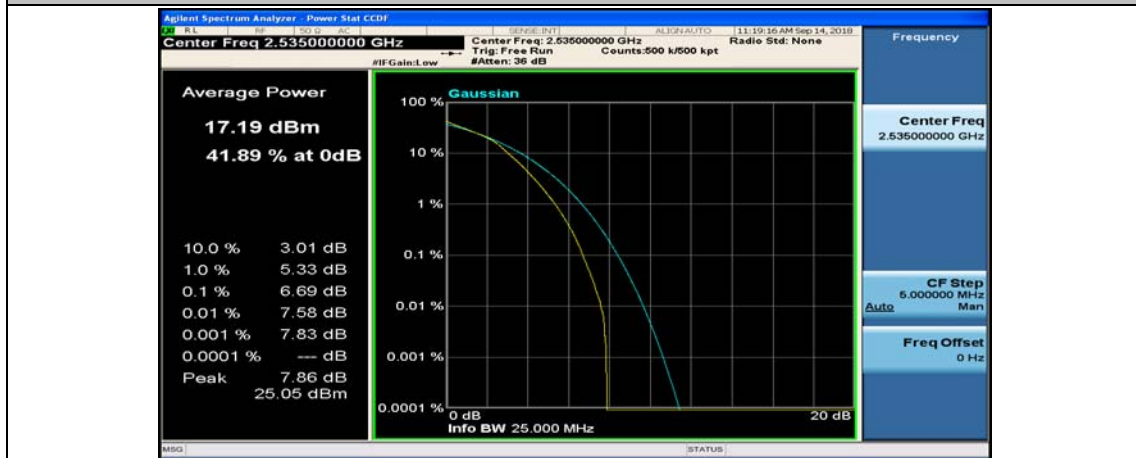
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49
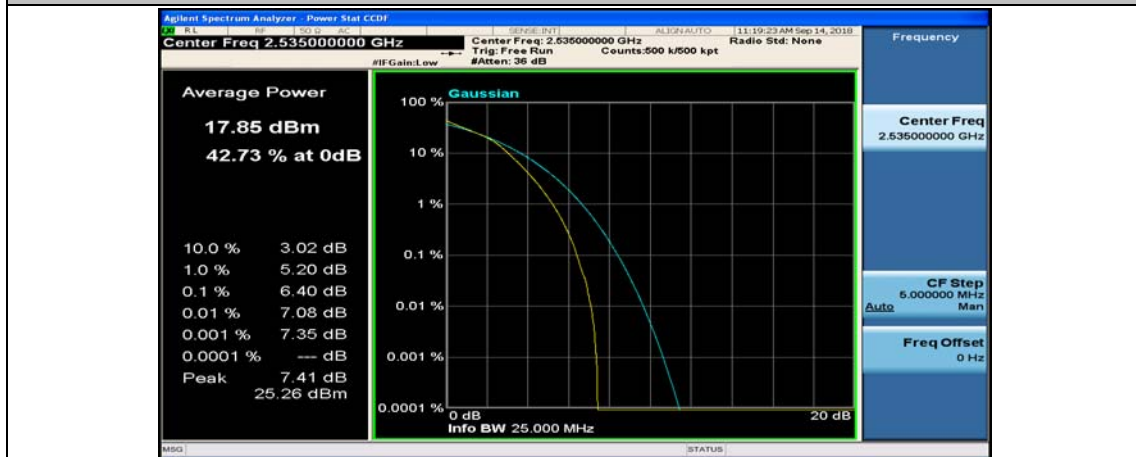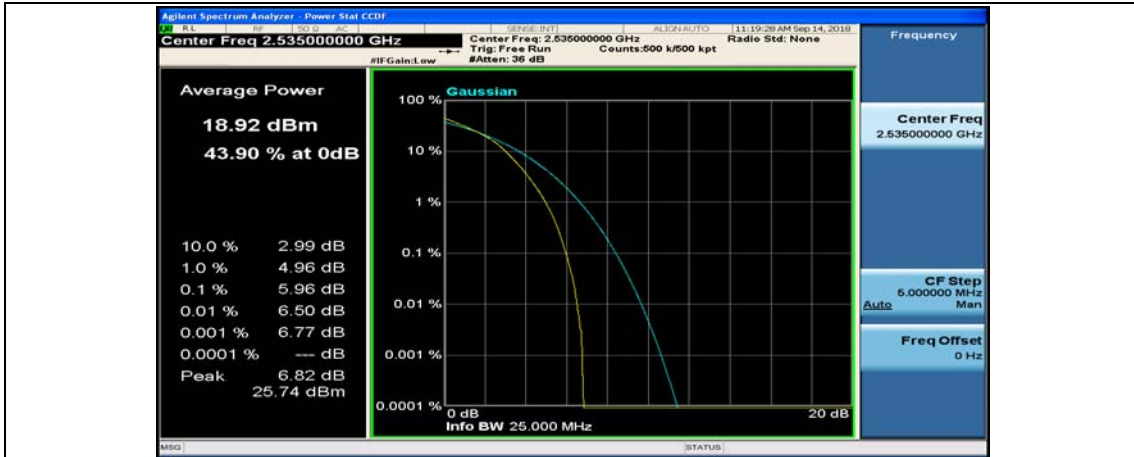


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#0
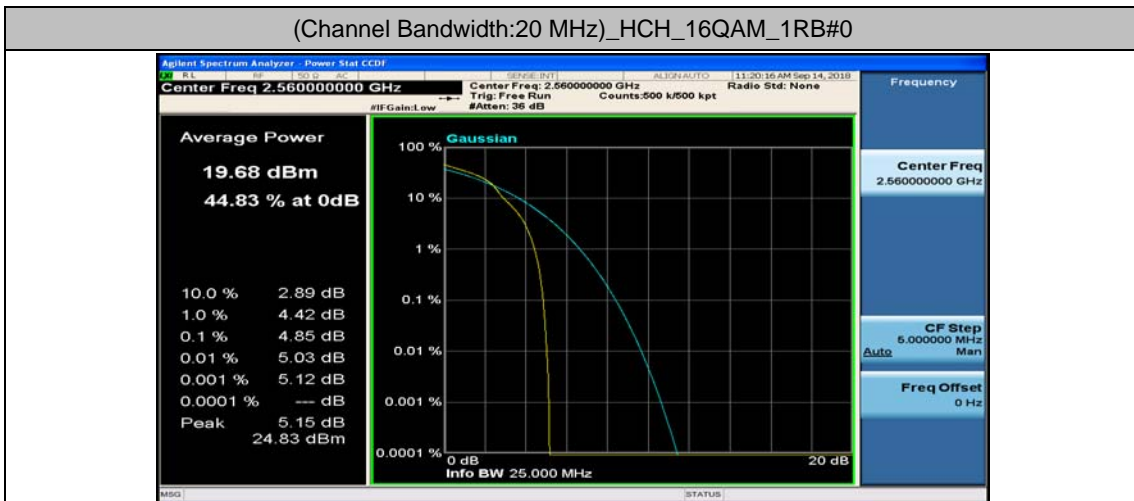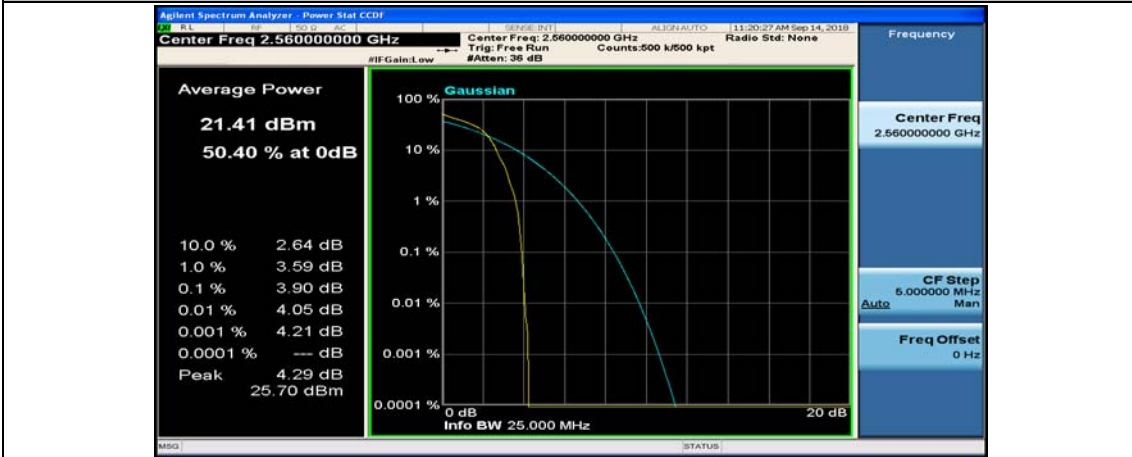


(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#25



(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#50

(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99



(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25

| (Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50 |
|---|



| (Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0 |
|---|

# Appendix C: 26dB Bandwidth and Occupied Bandwidth

**Test Result**

## Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth | 26dB Bandwidth | Verdict |
| | | Size | Offset | (MHz) | (MHz) | |
| QPSK | LCH | 25 | 0 | 4.4824 | 4.818 | PASS |
| | MCH | 25 | 0 | 4.4783 | 4.815 | PASS |
| | HCH | 25 | 0 | 4.4839 | 4.877 | PASS |
| 16QAM | LCH | 25 | 0 | 4.4785 | 4.753 | PASS |
| | MCH | 25 | 0 | 4.4793 | 4.798 | PASS |
| | HCH | 25 | 0 | 4.4878 | 4.825 | PASS |

## Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth | 26dB Bandwidth | Verdict |
| | | Size | Offset | (MHz) | (MHz) | |
| QPSK | LCH | 50 | 0 | 8.9355 | 9.497 | PASS |
| | MCH | 50 | 0 | 8.9326 | 9.458 | PASS |
| | HCH | 50 | 0 | 8.9455 | 9.464 | PASS |
| 16QAM | LCH | 50 | 0 | 8.9356 | 9.388 | PASS |
| | MCH | 50 | 0 | 8.9491 | 9.404 | PASS |
| | HCH | 50 | 0 | 8.9328 | 9.457 | PASS |

## Channel Bandwidth: 15 MHz

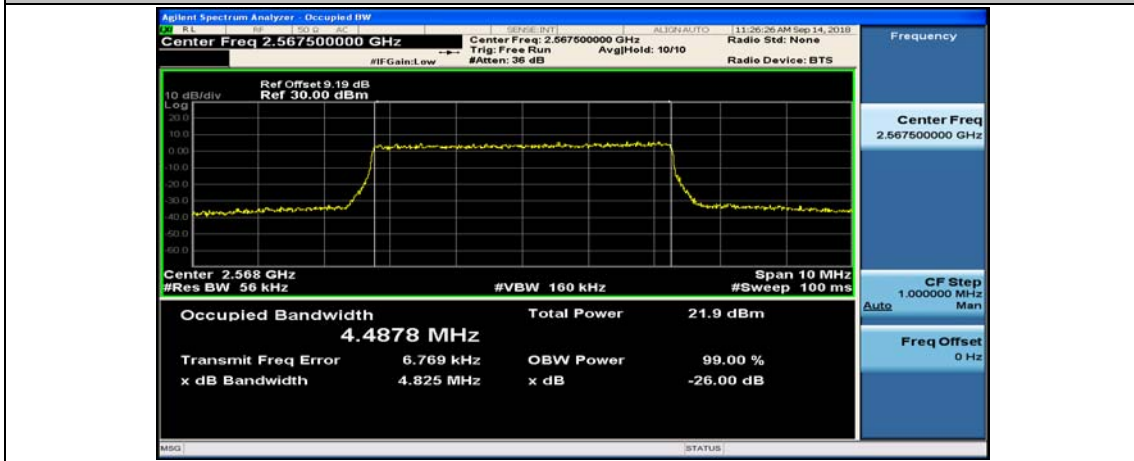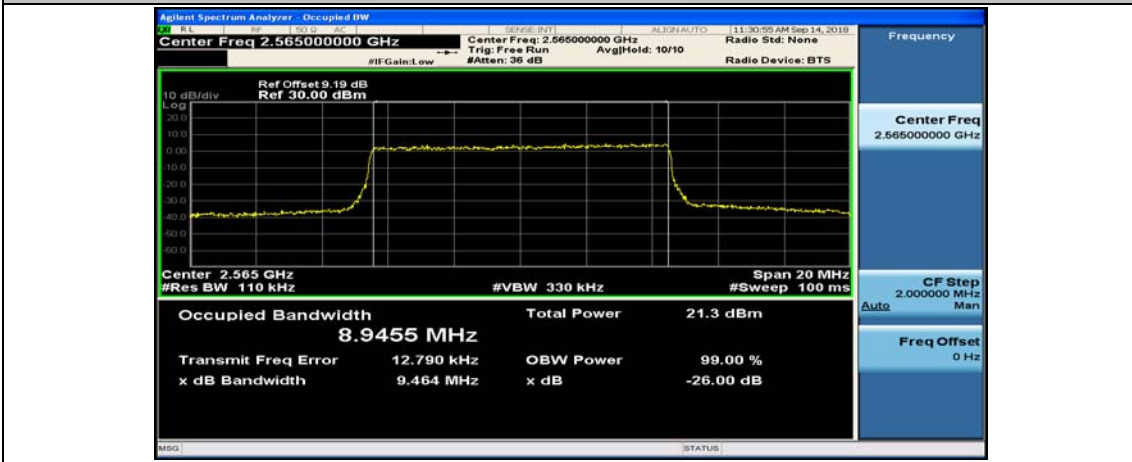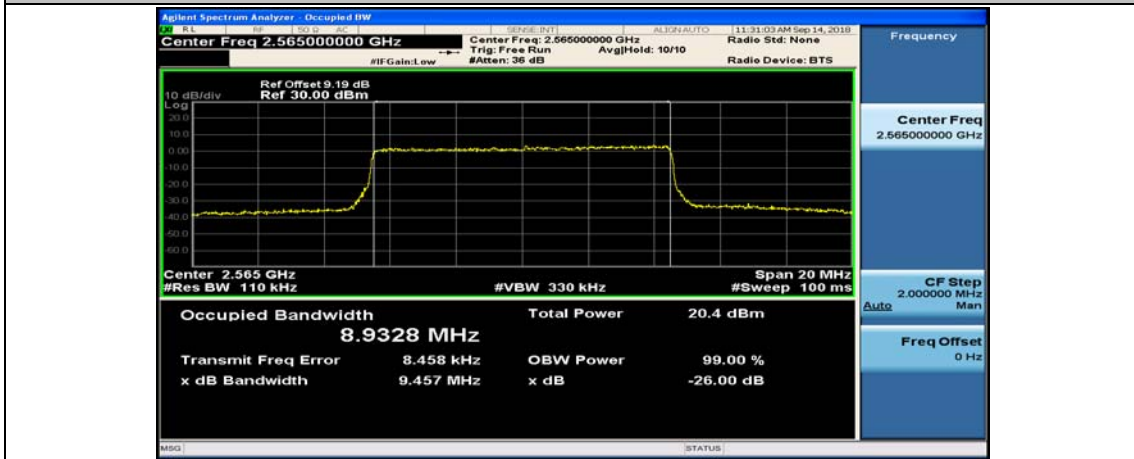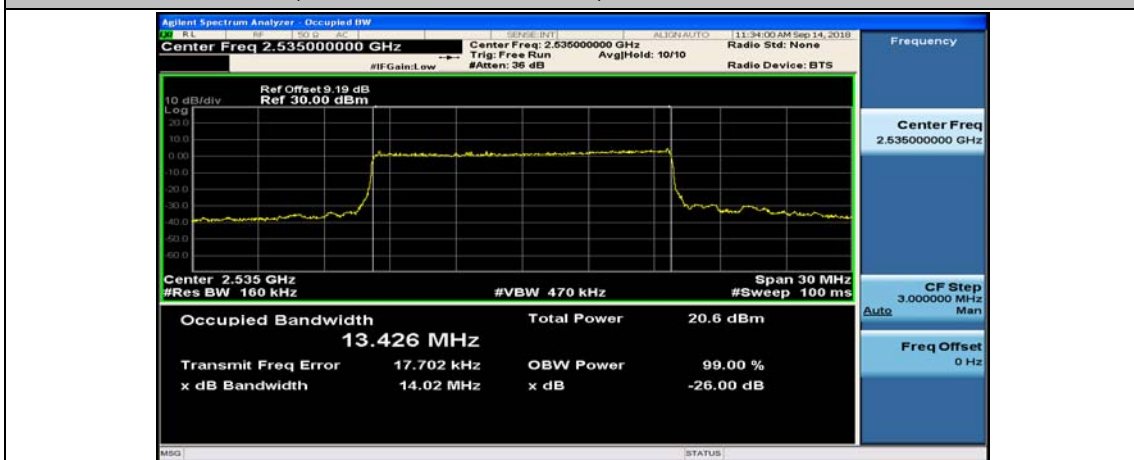| Channel Bandwidth: 15 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth | 26dB Bandwidth | Verdict |
| | | Size | Offset | (MHz) | (MHz) | |
| QPSK | LCH | 75 | 0 | 13.387 | 13.97 | PASS |
| | MCH | 75 | 0 | 13.426 | 14.02 | PASS |
| | HCH | 75 | 0 | 13.433 | 14.06 | PASS |
| 16QAM | LCH | 75 | 0 | 13.369 | 14.06 | PASS |
| | MCH | 75 | 0 | 13.423 | 14.04 | PASS |
| | HCH | 75 | 0 | 13.446 | 14.13 | PASS |

## Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | |
|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth | 26dB Bandwidth | Verdict |
| | | Size | Offset | (MHz) | (MHz) | |
| QPSK | LCH | 100 | 0 | 17.806 | 18.56 | PASS |
| | MCH | 100 | 0 | 17.898 | 18.60 | PASS |
| | HCH | 100 | 0 | 17.953 | 18.71 | PASS |
| 16QAM | LCH | 100 | 0 | 17.815 | 18.54 | PASS |
| | MCH | 100 | 0 | 17.891 | 18.70 | PASS |
| | HCH | 100 | 0 | 17.923 | 18.63 | PASS |

## Test Graphs

## Channel Bandwidth: 5 MHz
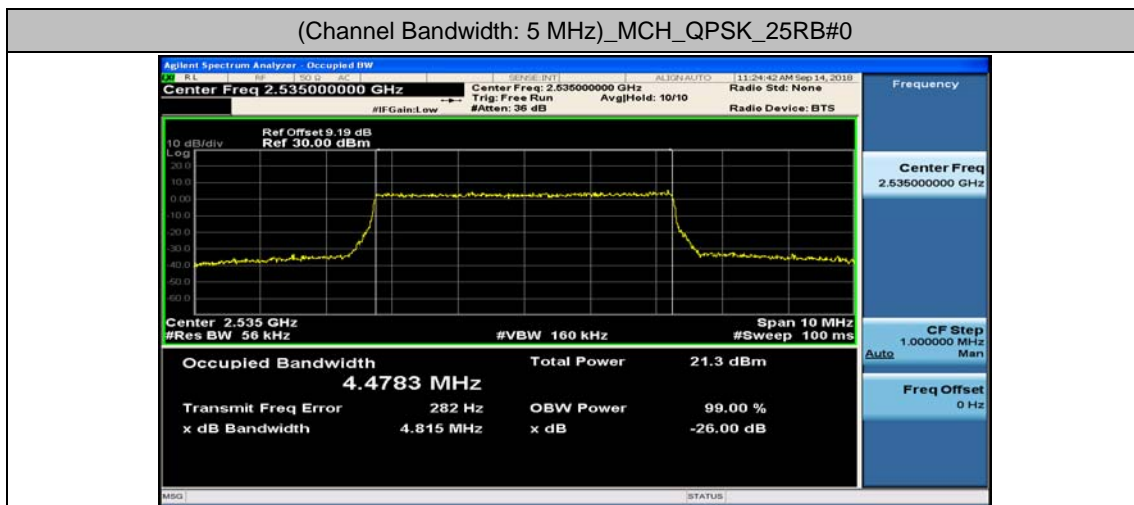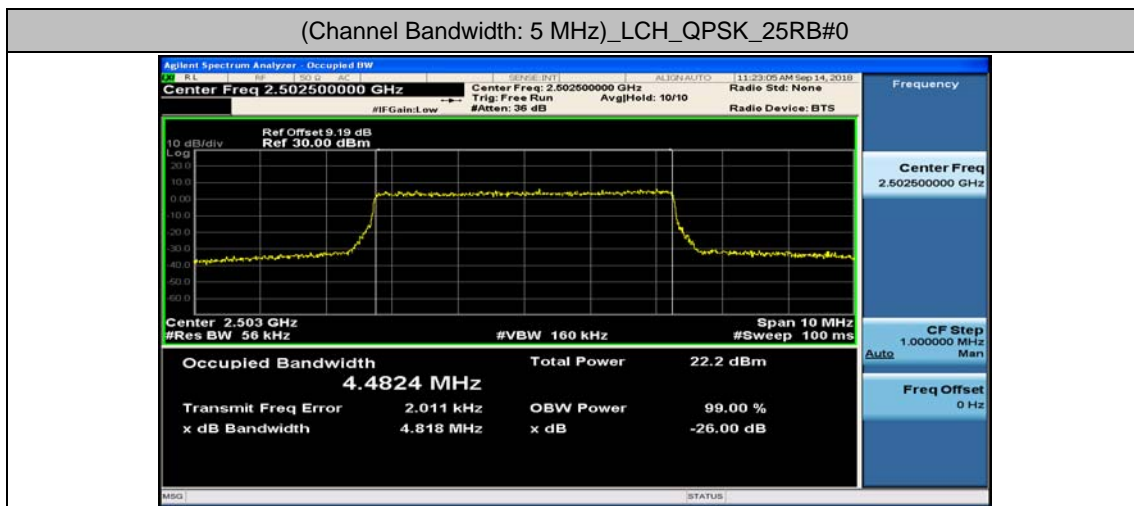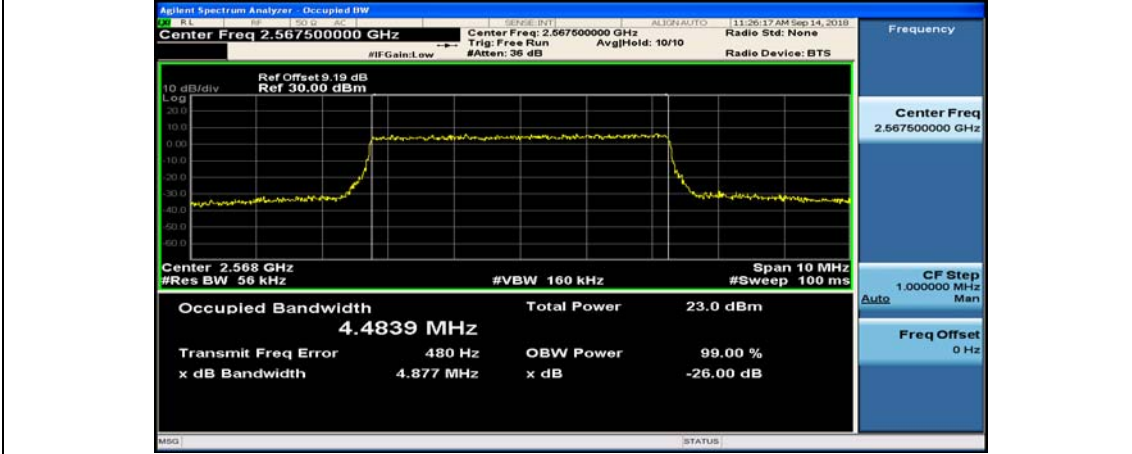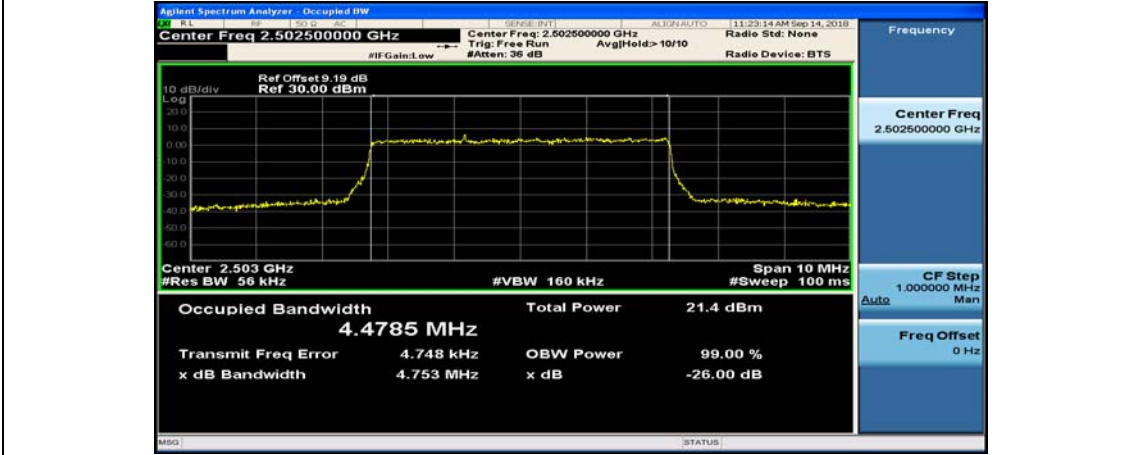
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0 |
|---|
|  |

| (Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0 |
|---|
|  |

| (Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0 |
| --- |
|  |

| (Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0 |
| --- |
|  |

| (Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0 |
| --- |
|  |

| (Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0 |
| --- |
|  |
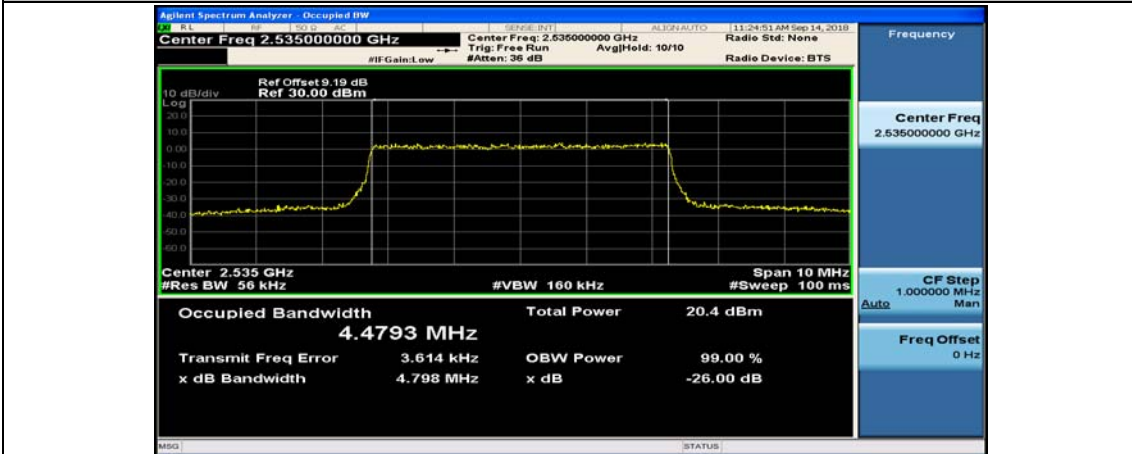
## Channel Bandwidth: 10 MHz
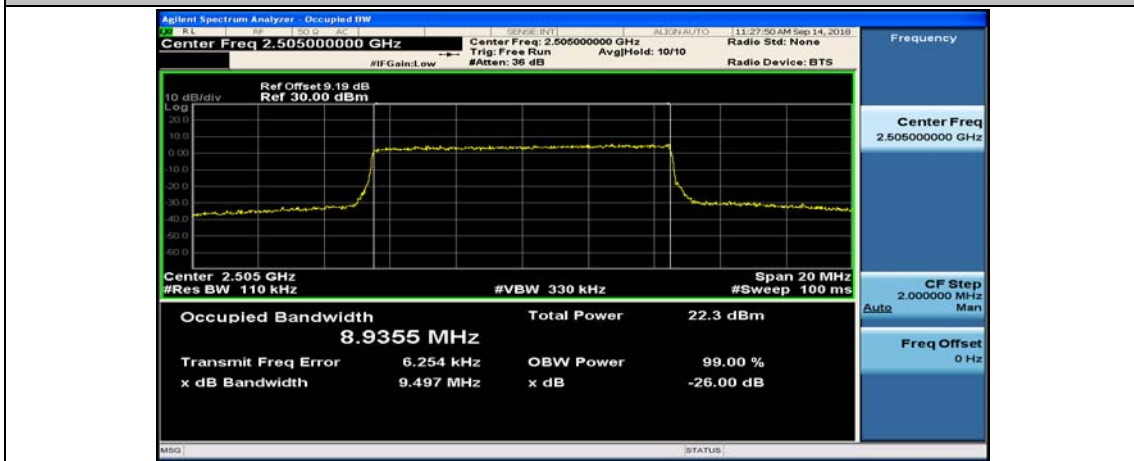
| Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0 |
| --- |
|  |

| Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0 |
| --- |
|  |

| Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0 |
|---|
|  |

| Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0 |
|---|
|  |

| Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0 |
|---|
|  |

| Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0 |
|---|
|  |
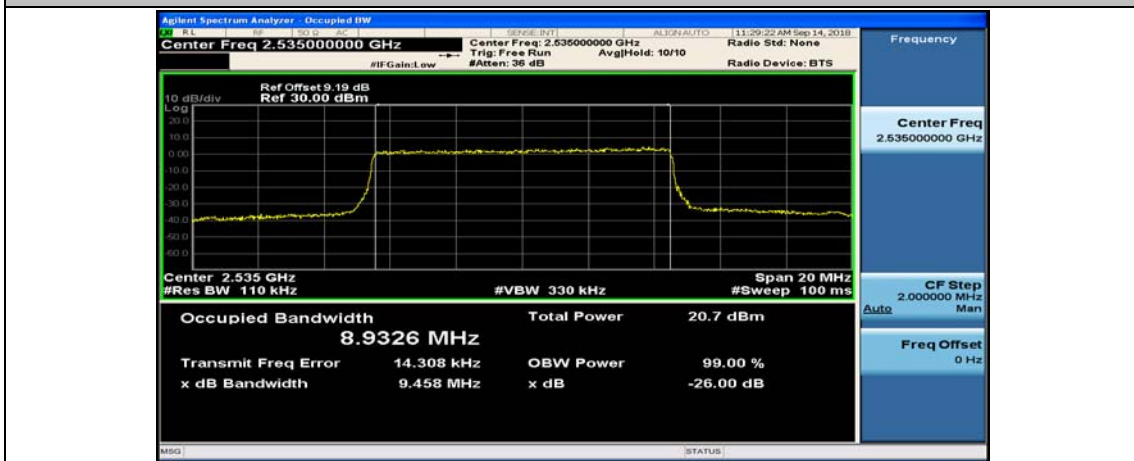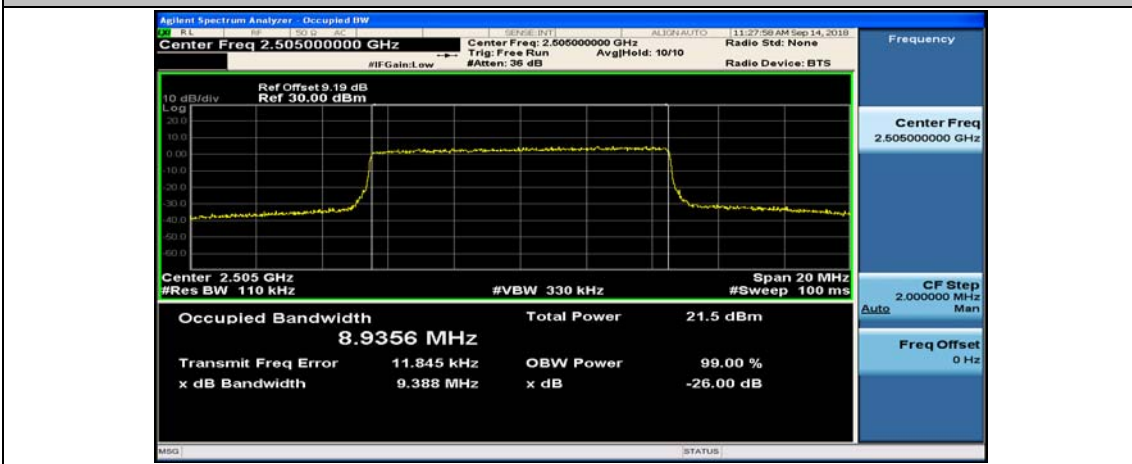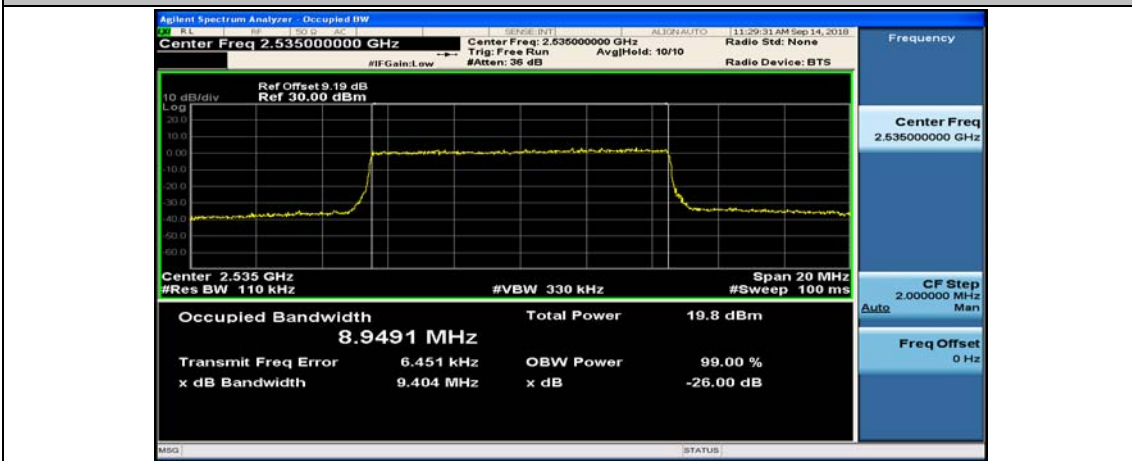
## Channel Bandwidth: 15 MHz

| (Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0 |
|---|
|  |

| (Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0 |
|---|
|  |

| (Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0 |
|---|
|  |

| (Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0 |
|---|
|  |

| (Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0 |
|---|
|  |

| (Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0 |
|---|
|  |
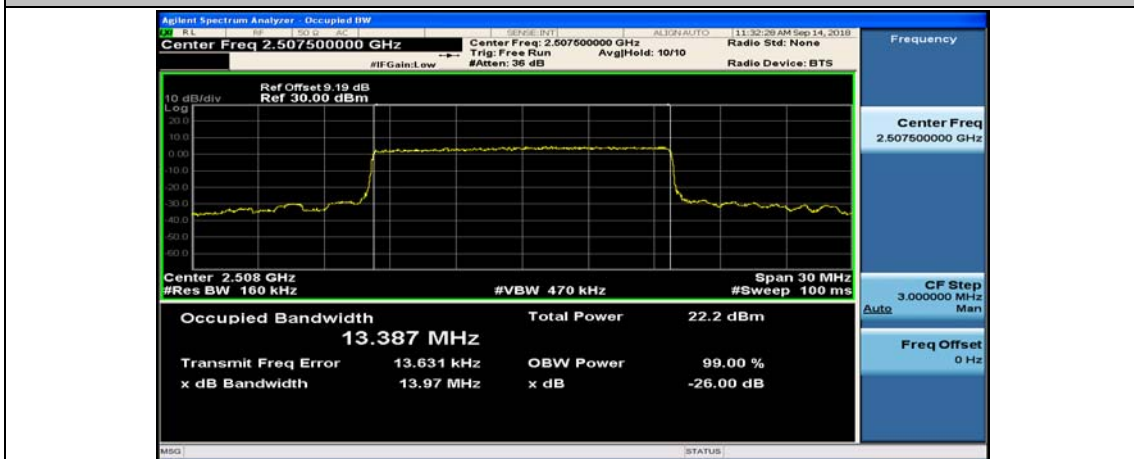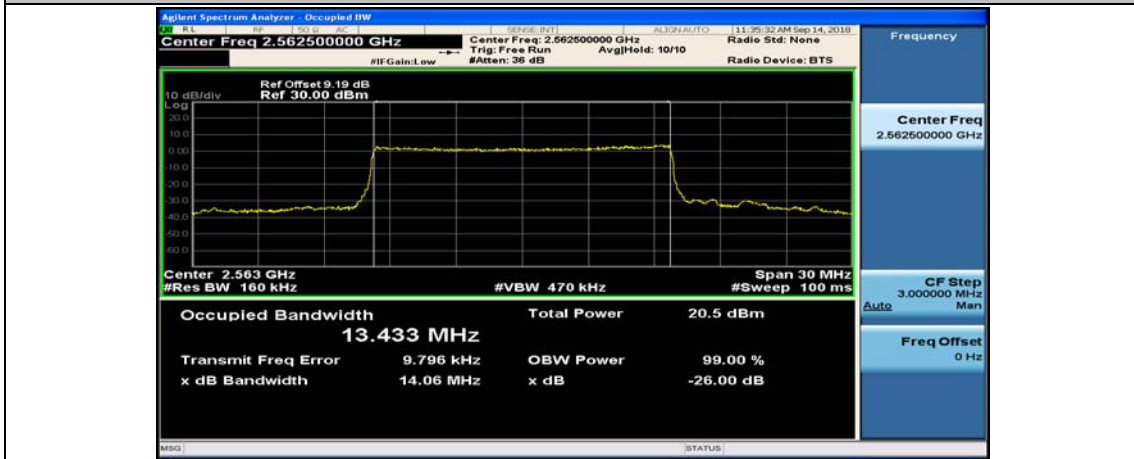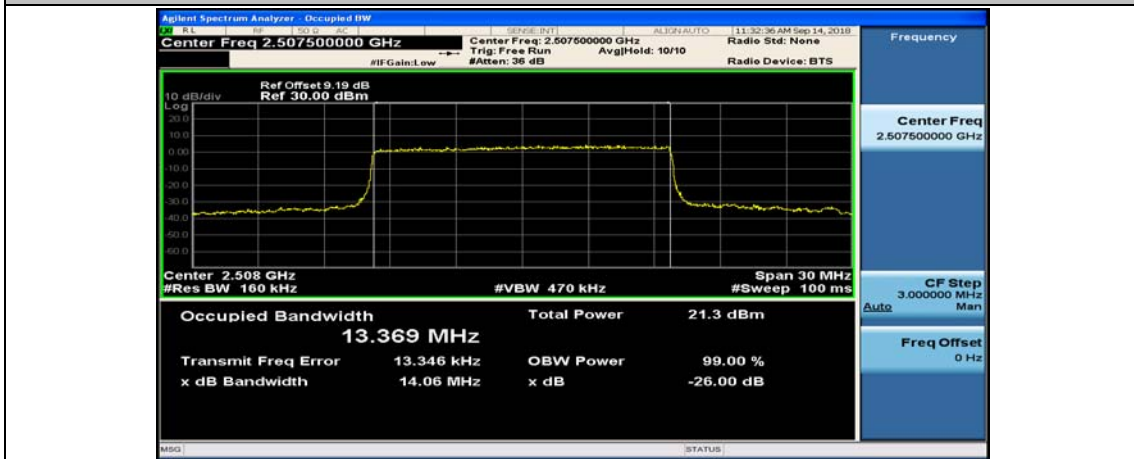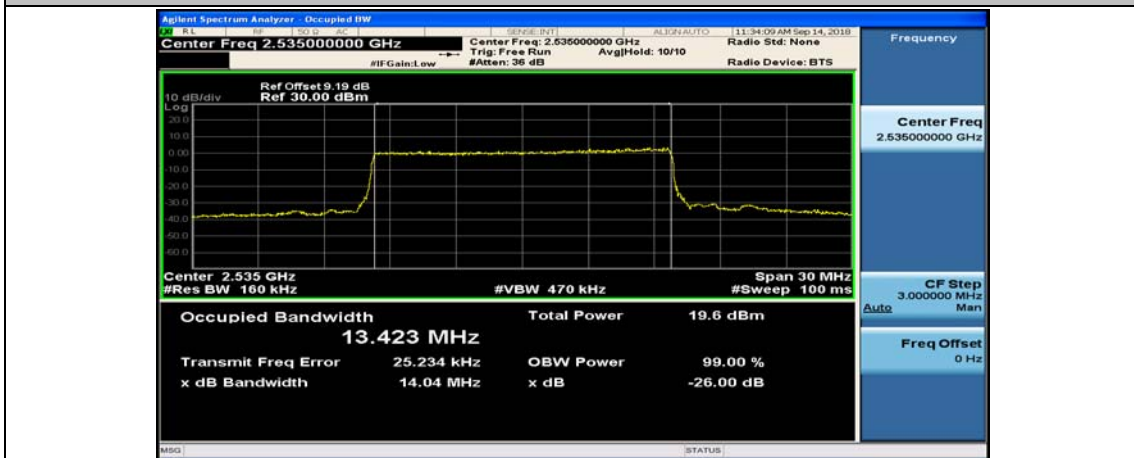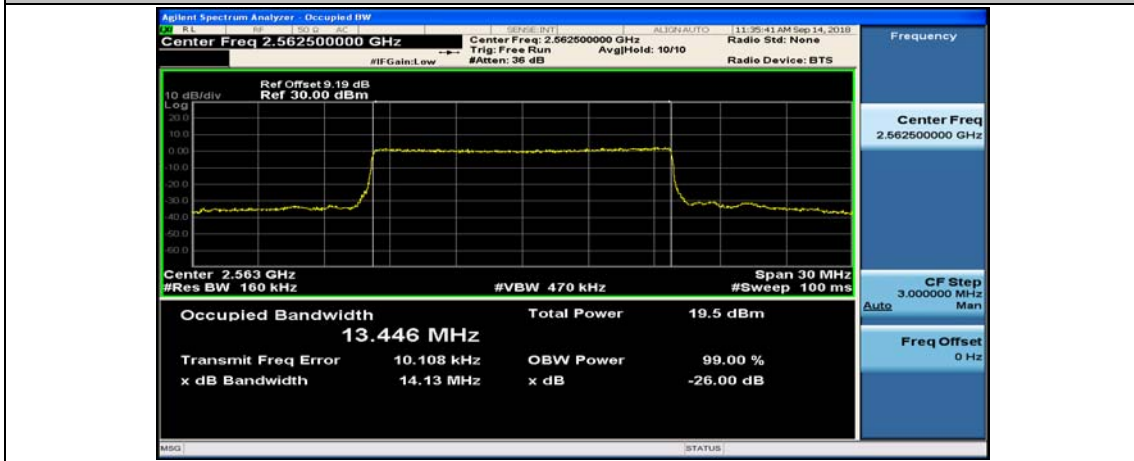
## Channel Bandwidth: 20 MHz
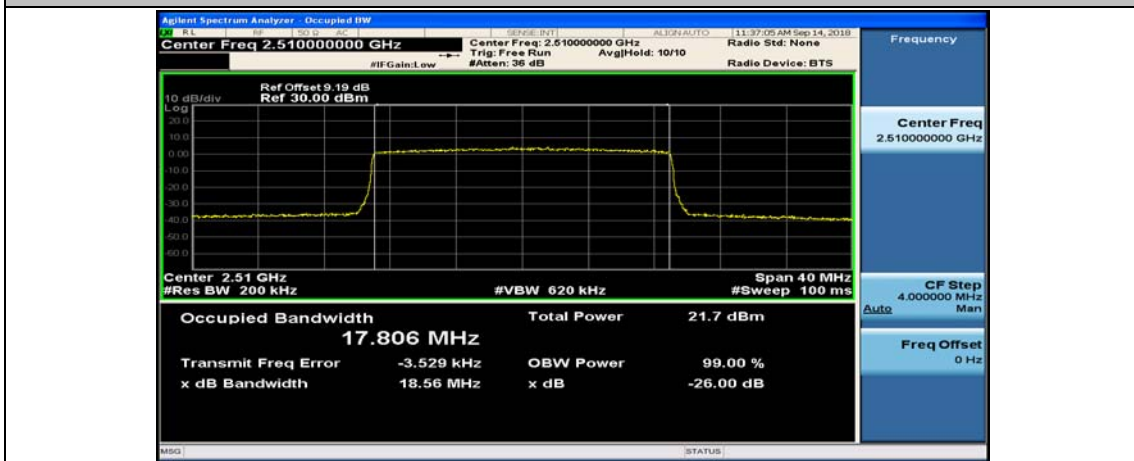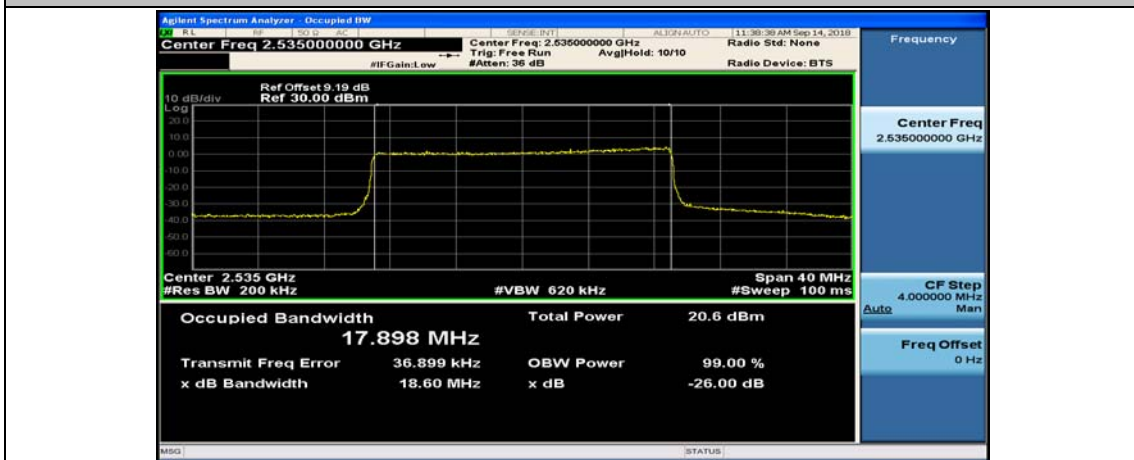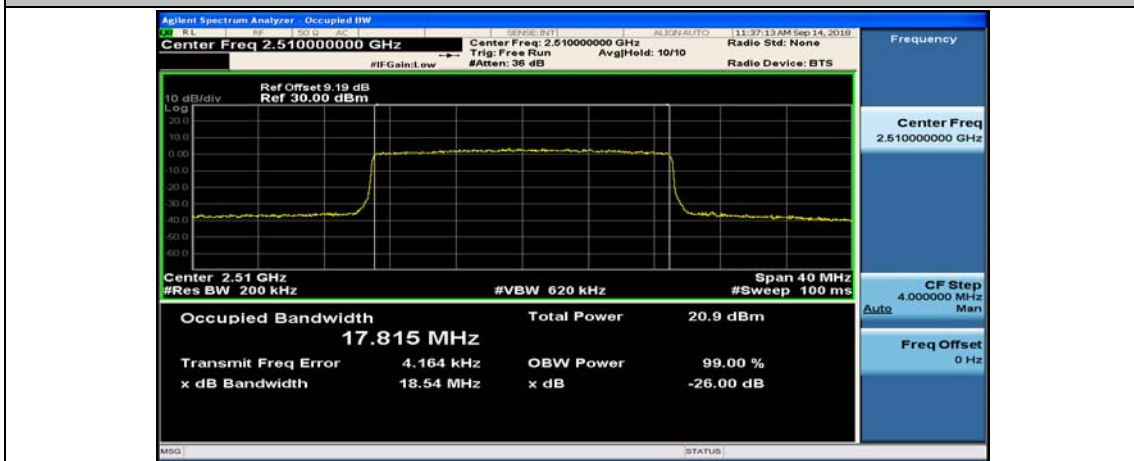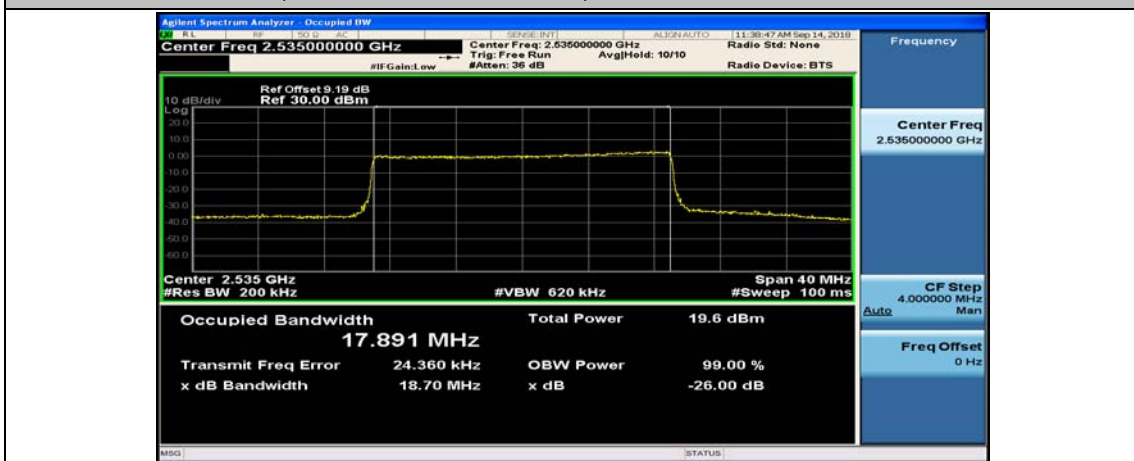
| (Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0 |
|---|
|  |

| (Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0 |
|---|
|  |

| (Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0 |
|---|
|  |

| (Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0 |
|---|
|  |

| (Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0 |
|---|
|  |

| (Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0 |
|---|
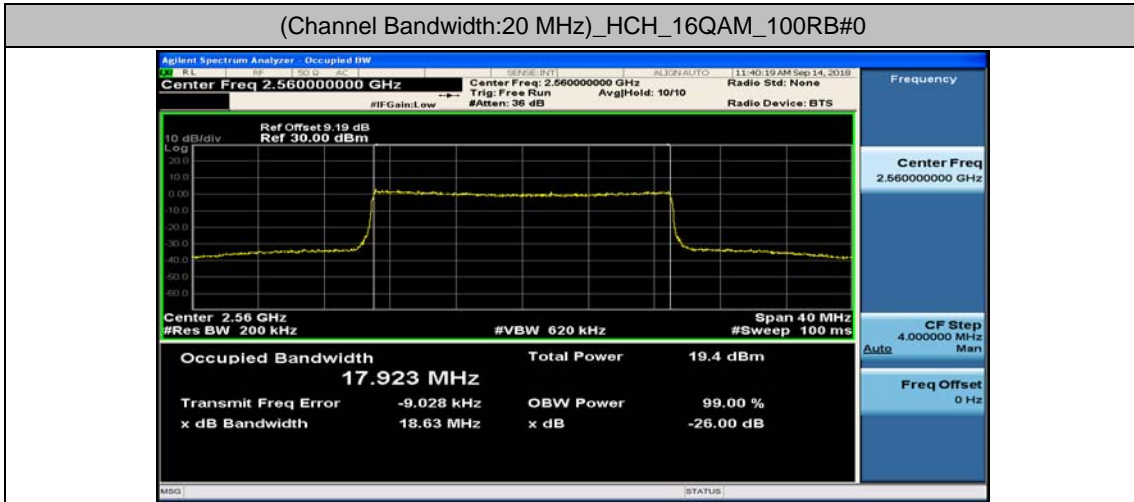
## Appendix D: Band Edge

**Test Graphs**

**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 |
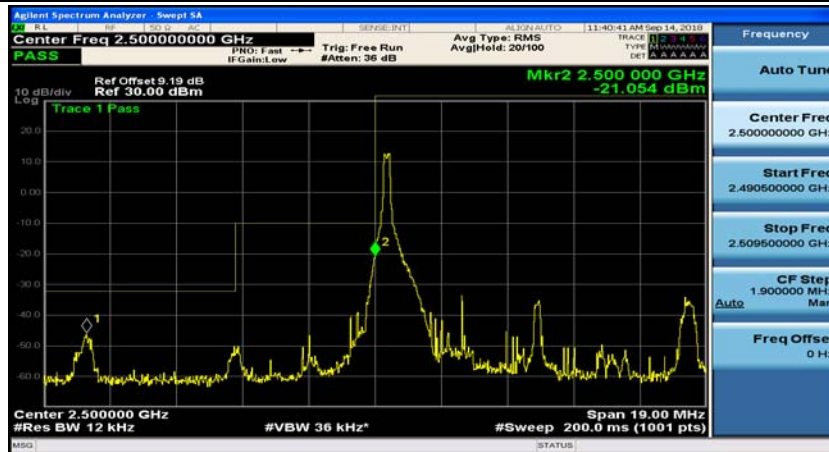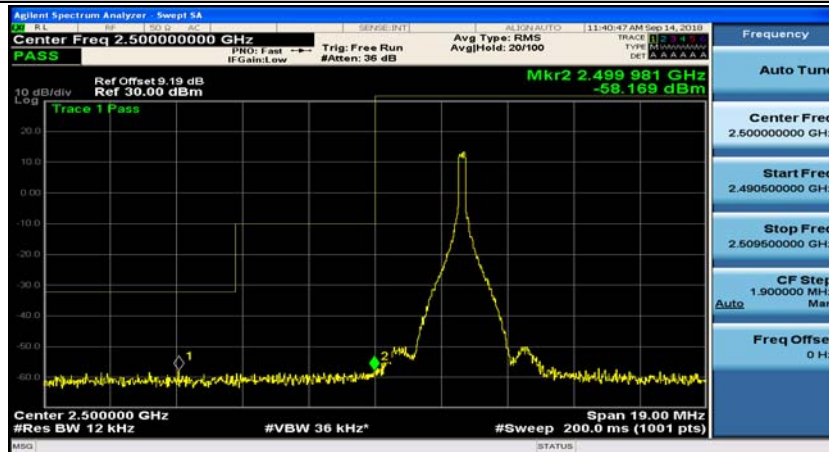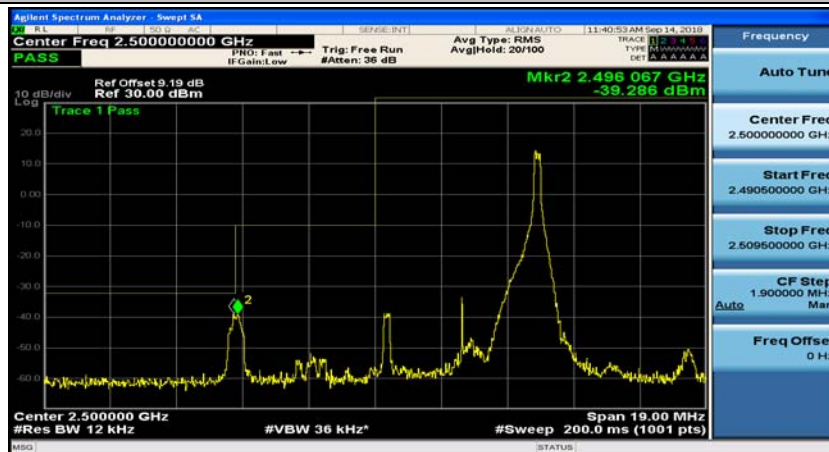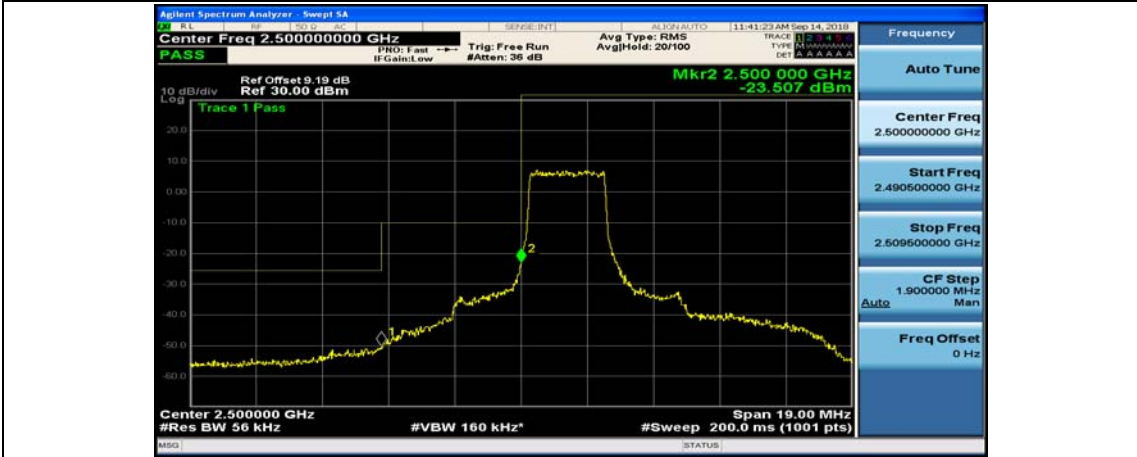
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13
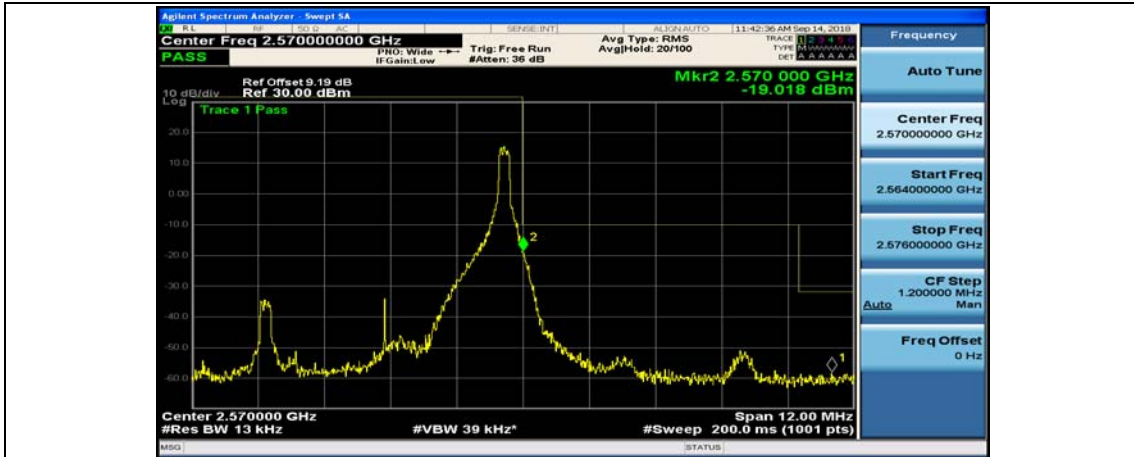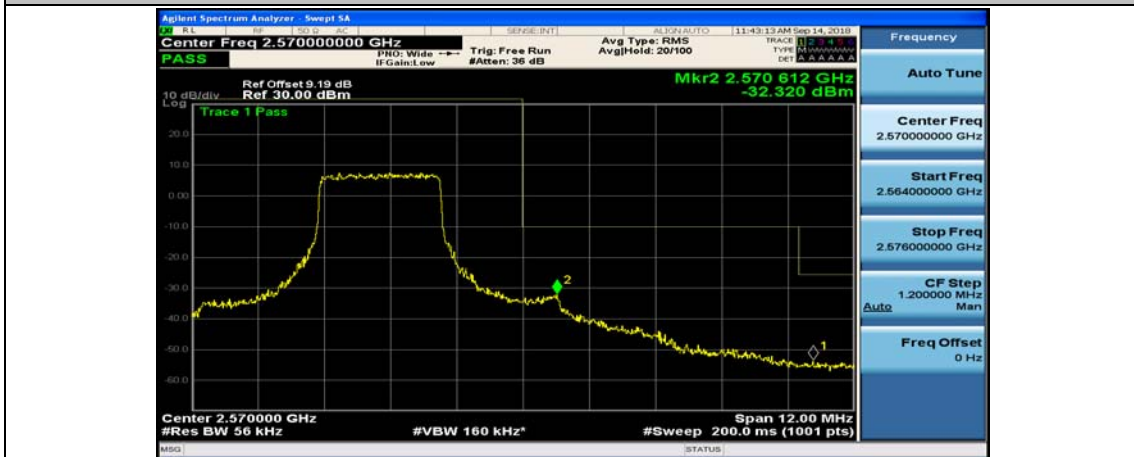


(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

| (Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0 |
|---|



| (Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12 |
|---|



| (Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24 |
|---|
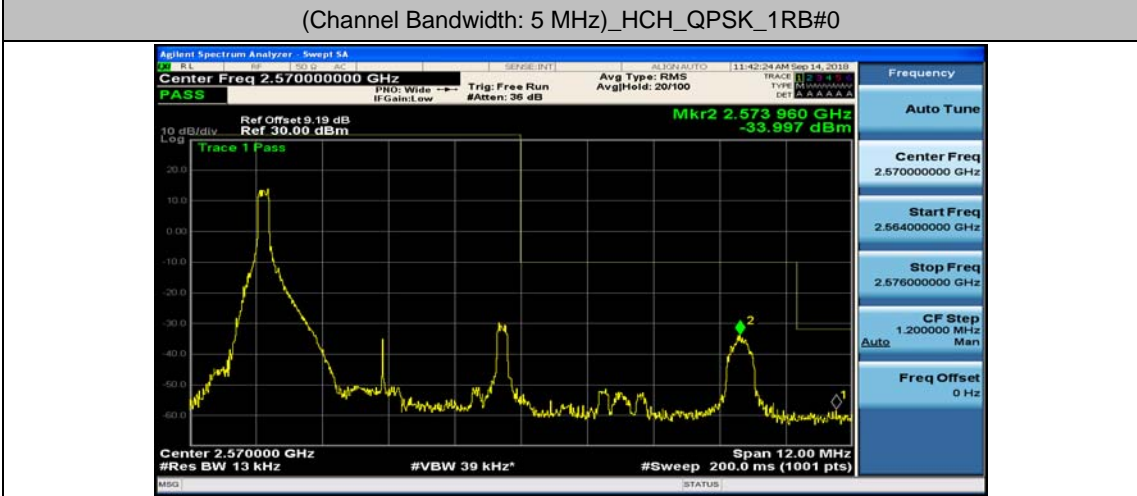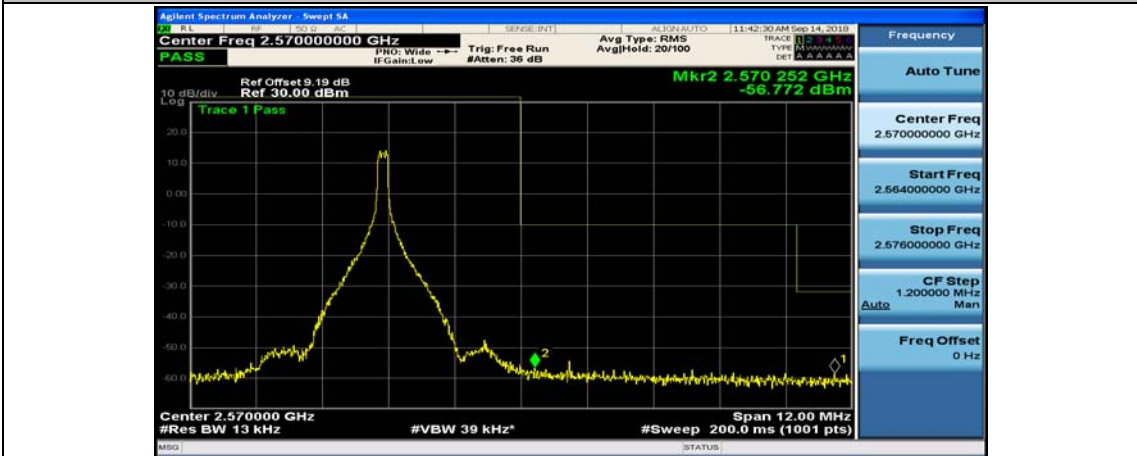
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13
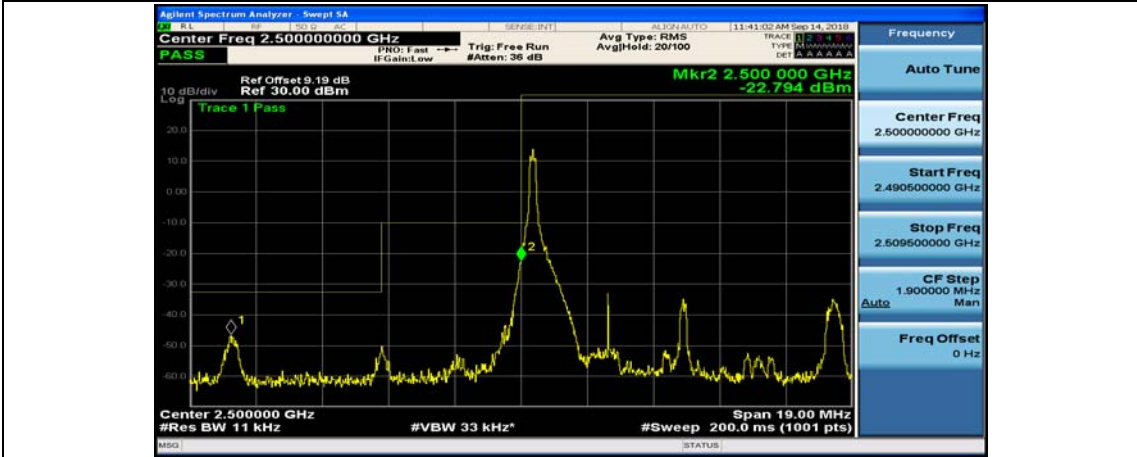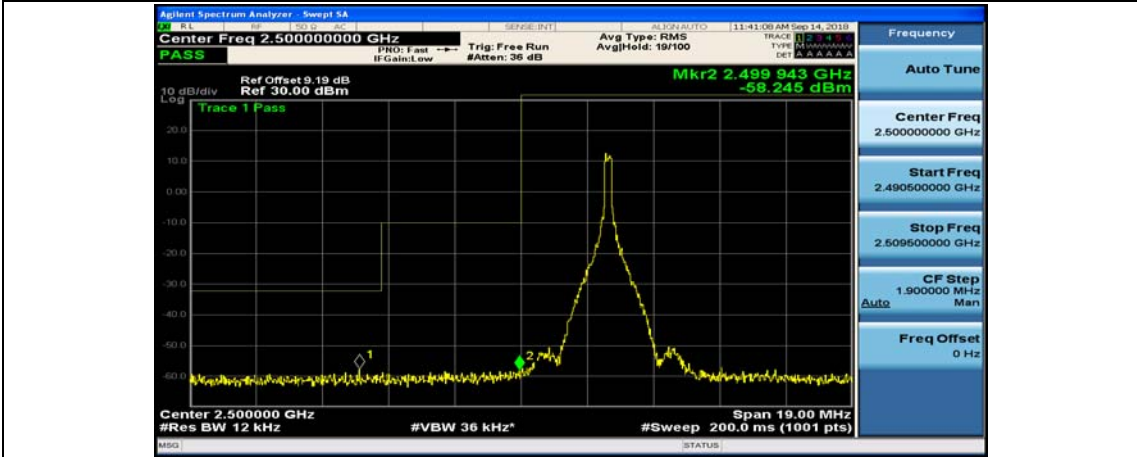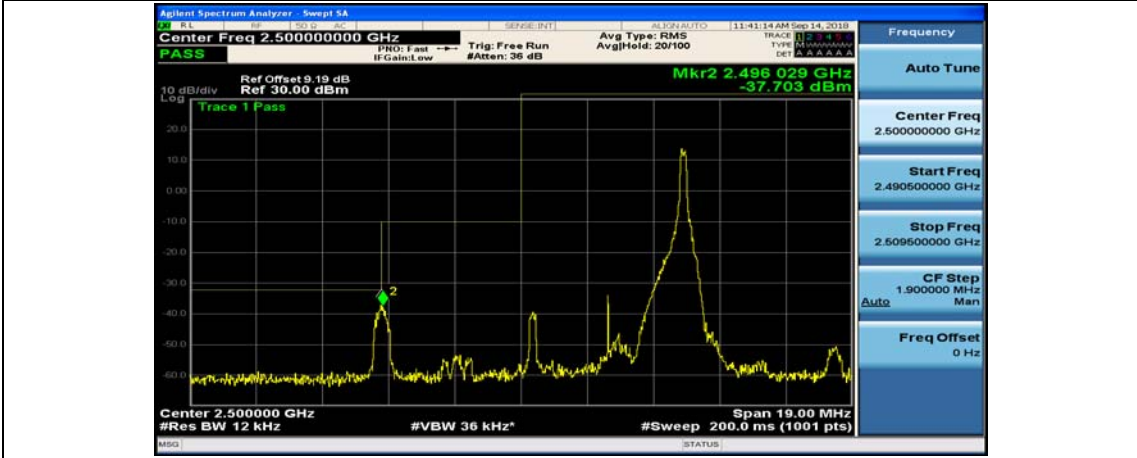
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0
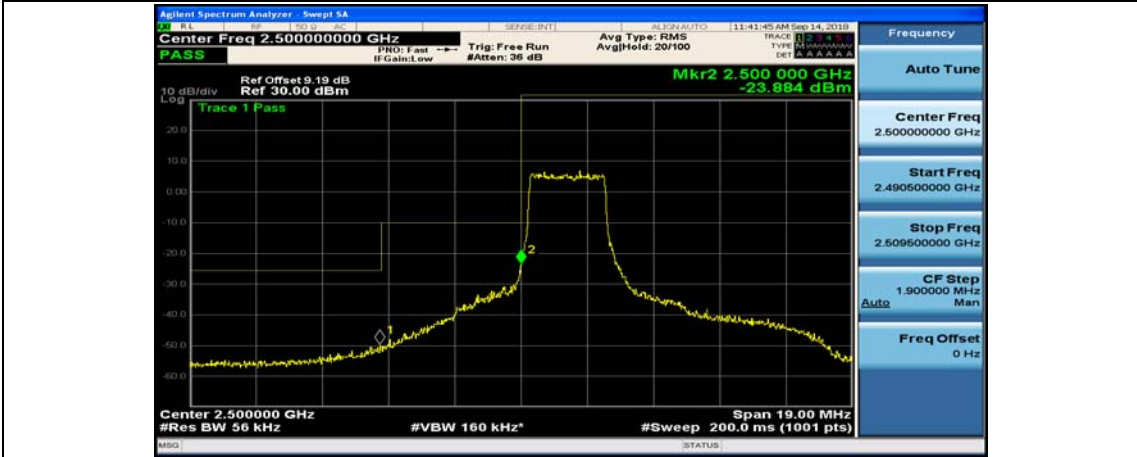


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12
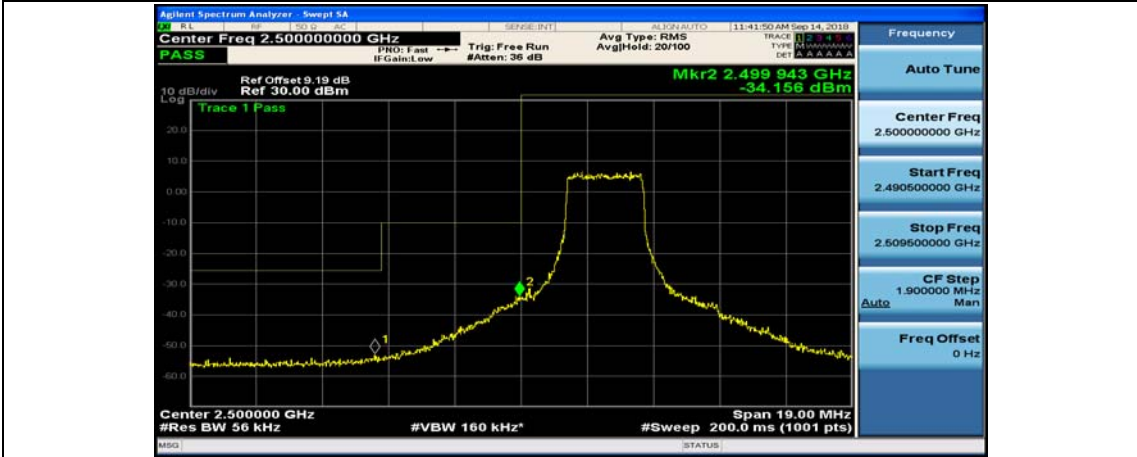
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0
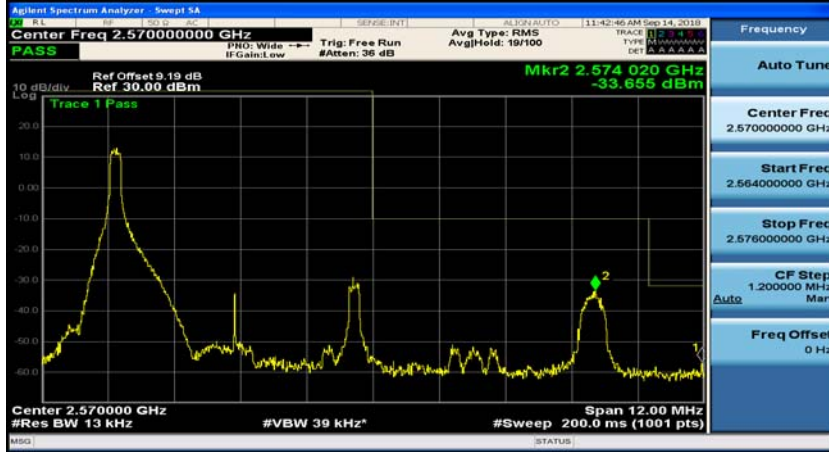


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6
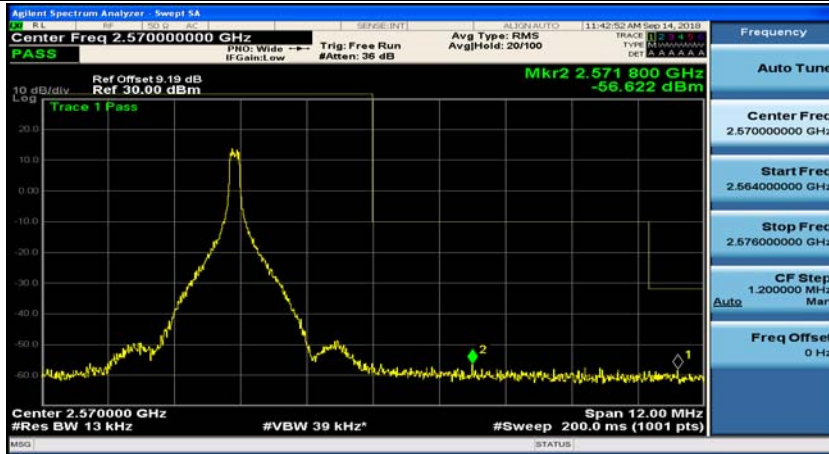
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

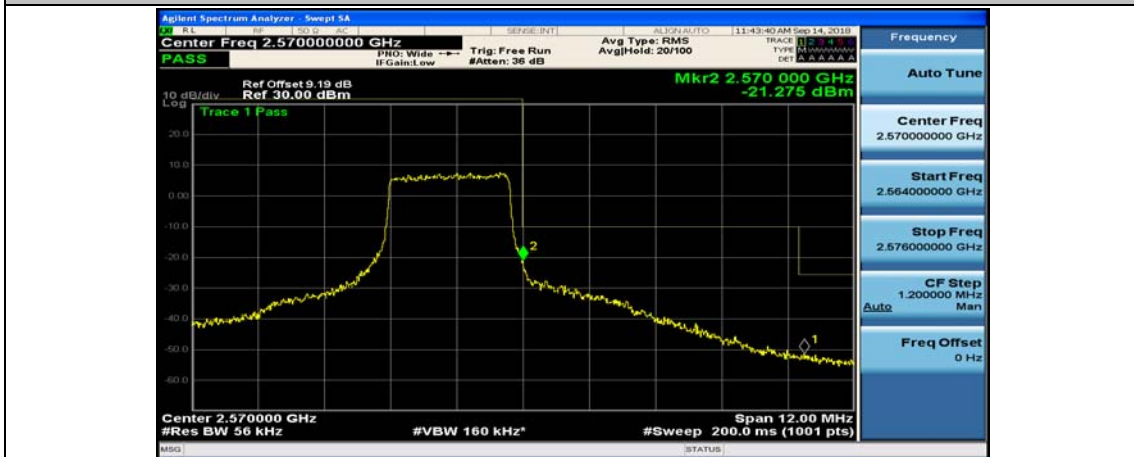| (Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0 |
|---|
|  |
| (Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12 |
|  |
| (Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24 |
|  |
| (Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0 |

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



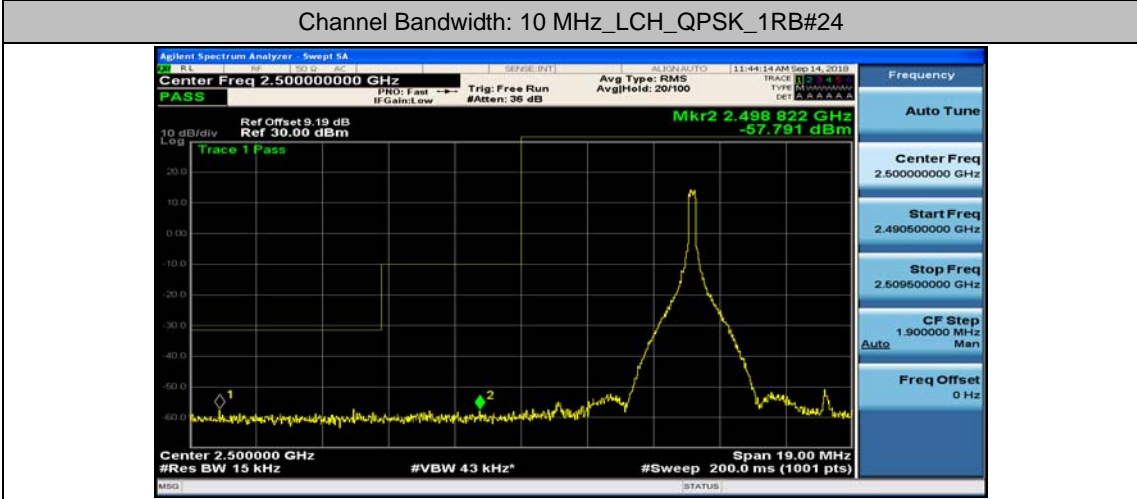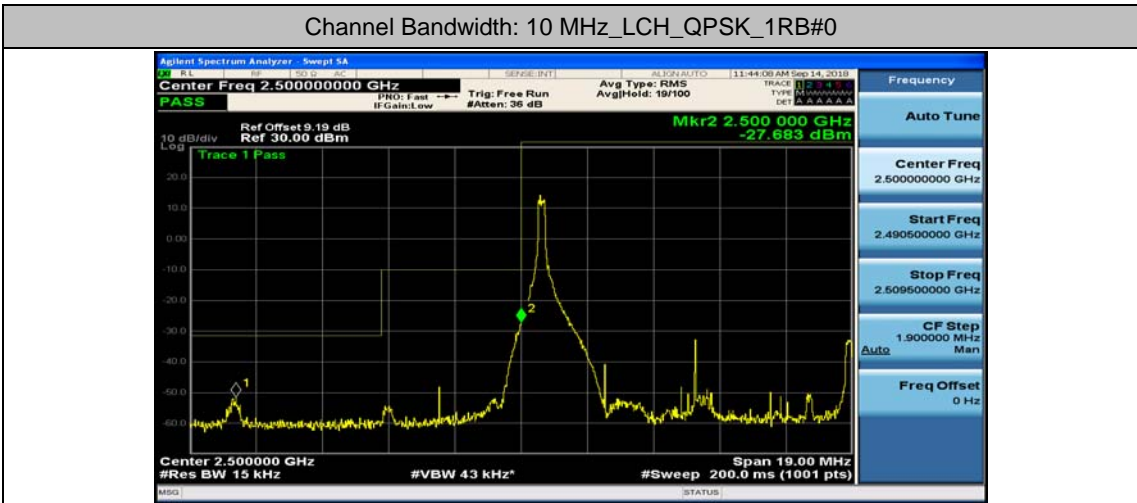(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13



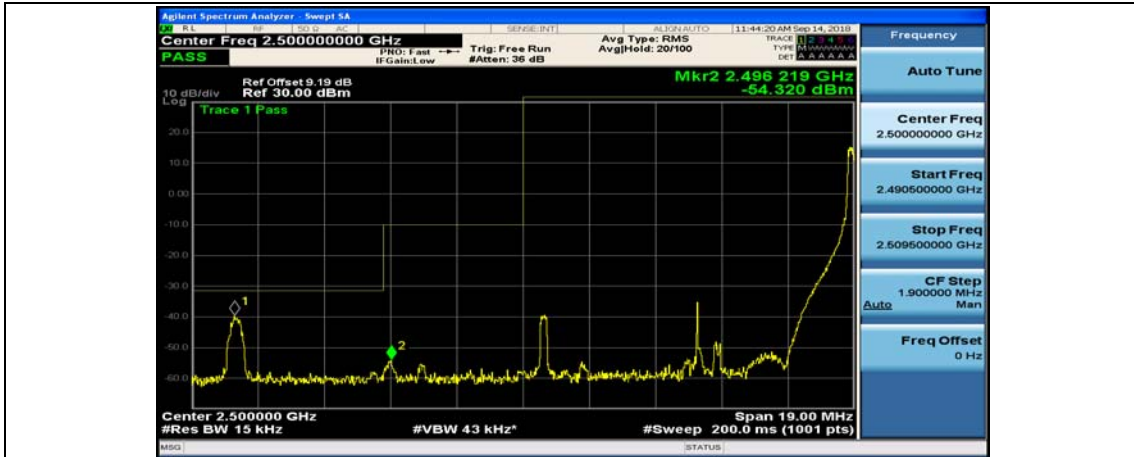(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

## Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0 |
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| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24 |
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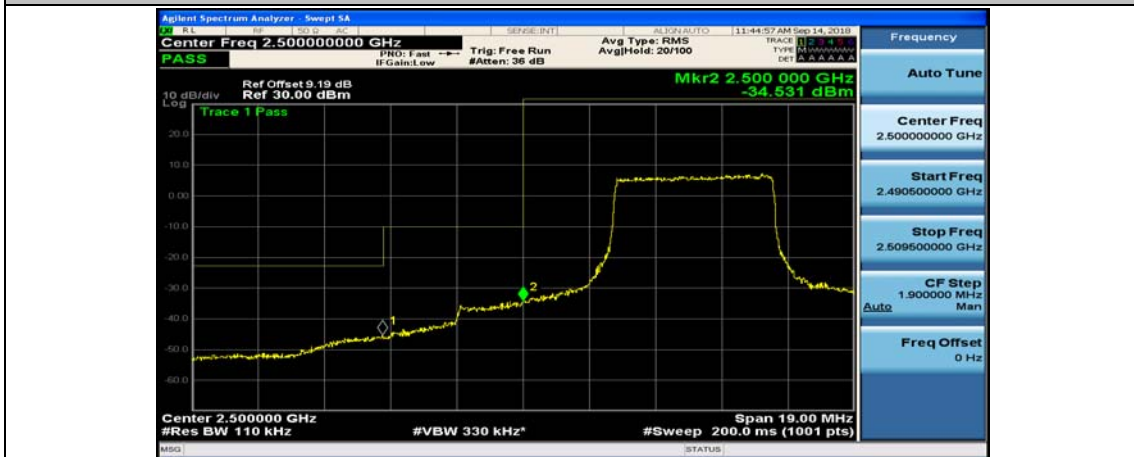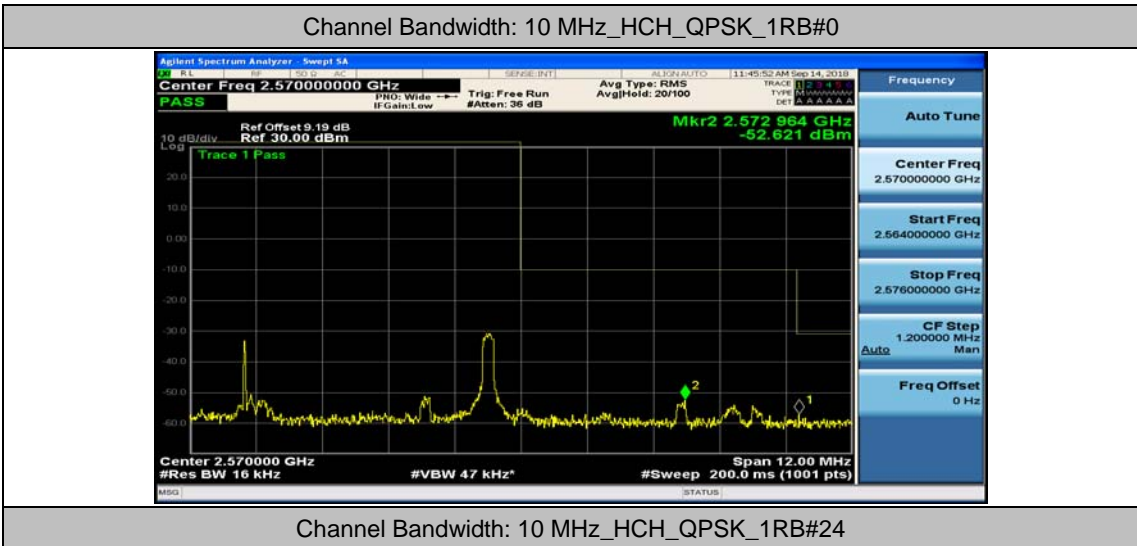| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49 |
|---|

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0
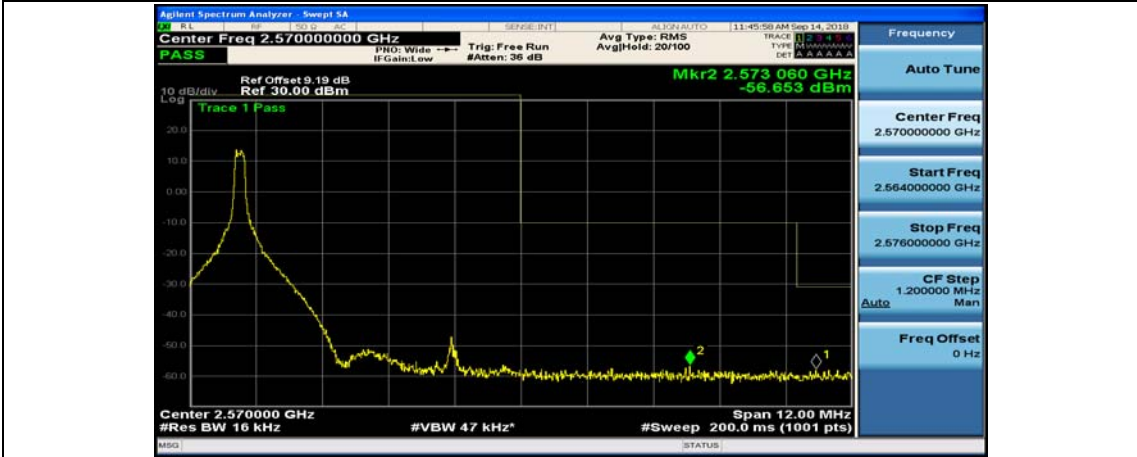


Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0
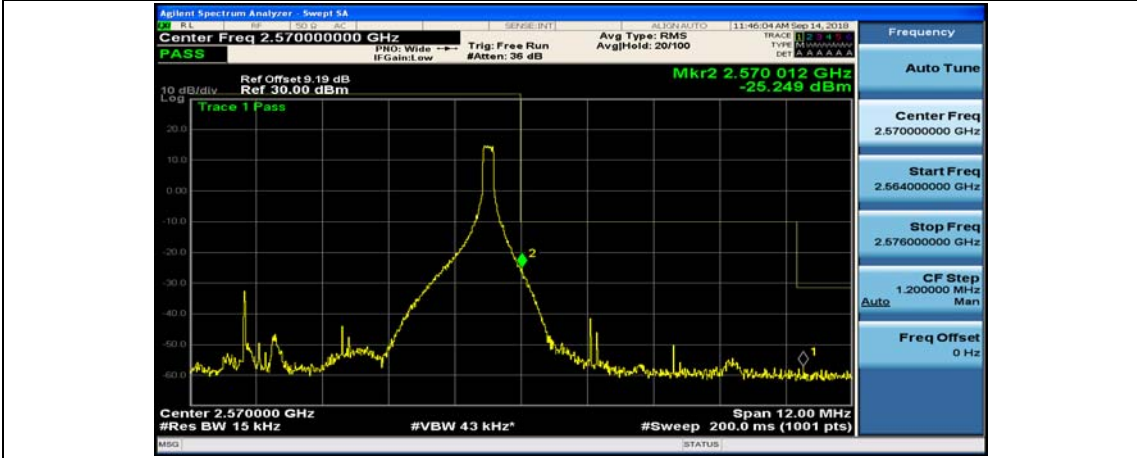


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

| Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25 |



| Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0 |