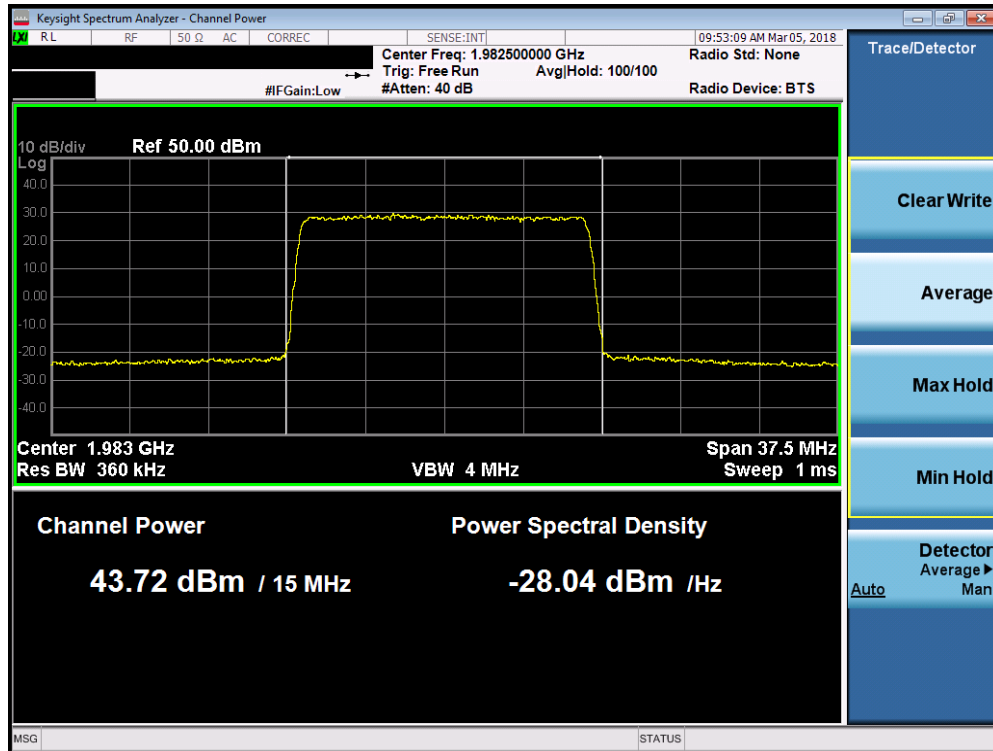
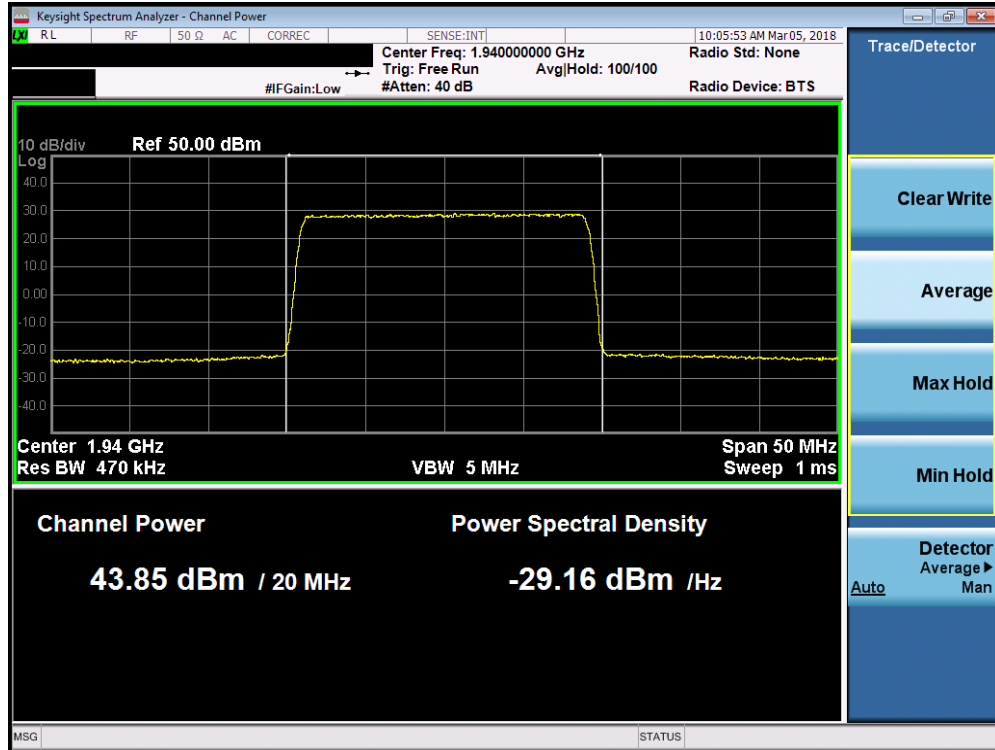


Plot 7-131. Maximum Conducted Power (Band 2 - 15.0MHz 256-QAM – Mid Channel)

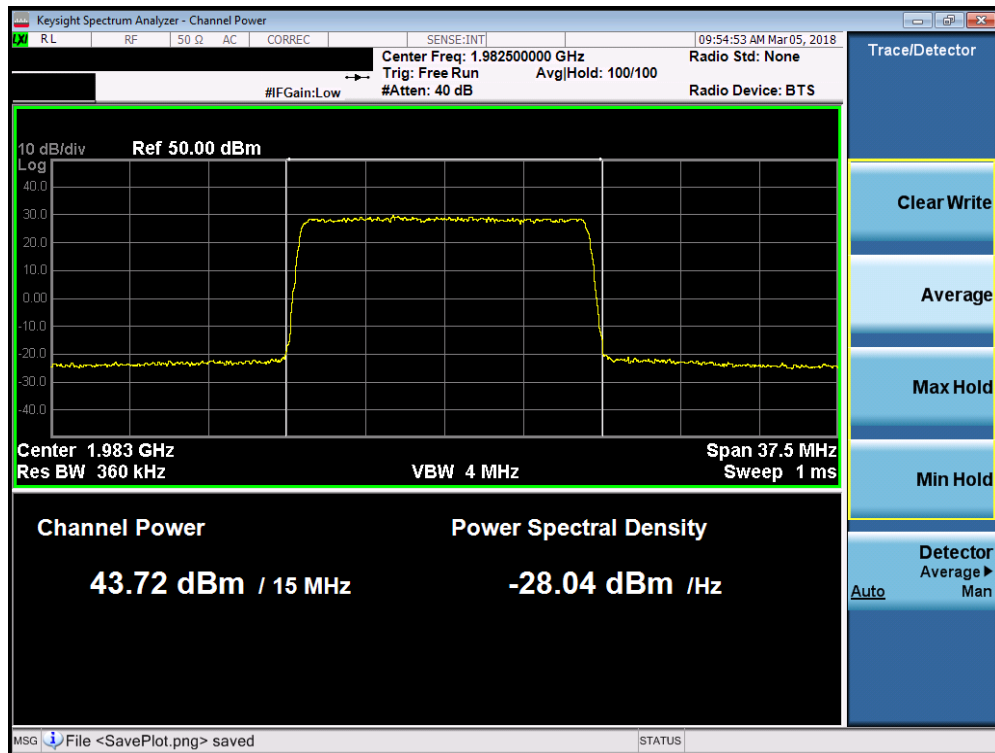


Plot 7-132. Maximum Conducted Power (Band 2 - 15.0MHz 256-QAM – High Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 81 of 264 |

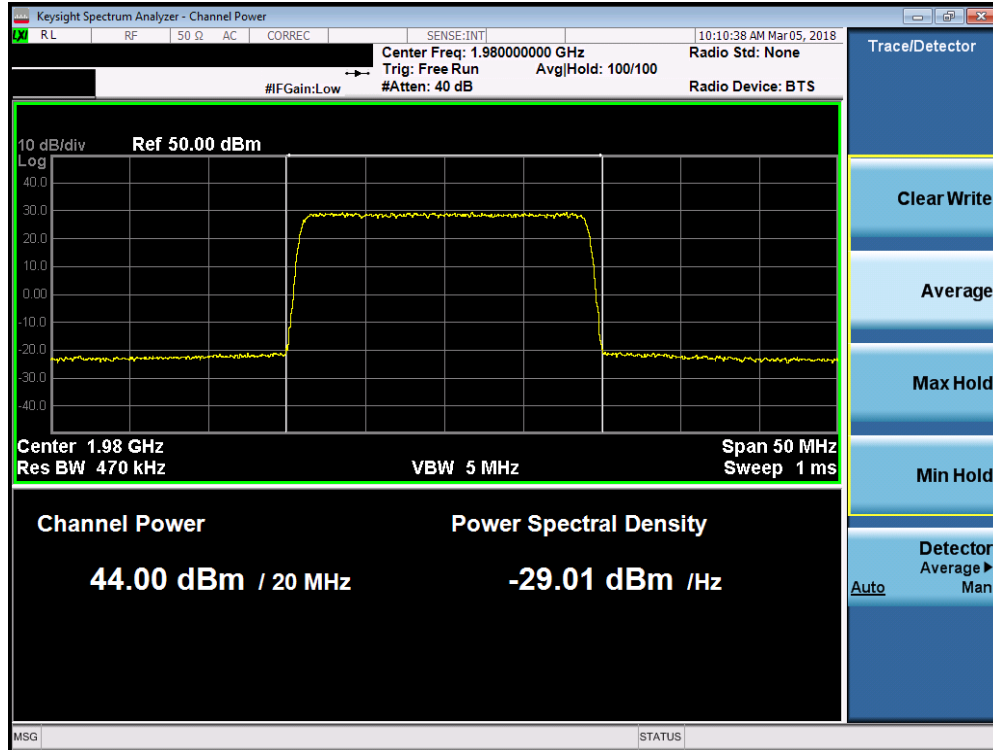


Plot 7-133. Maximum Conducted Power (Band 2 - 20.0MHz QPSK – Low Channel)

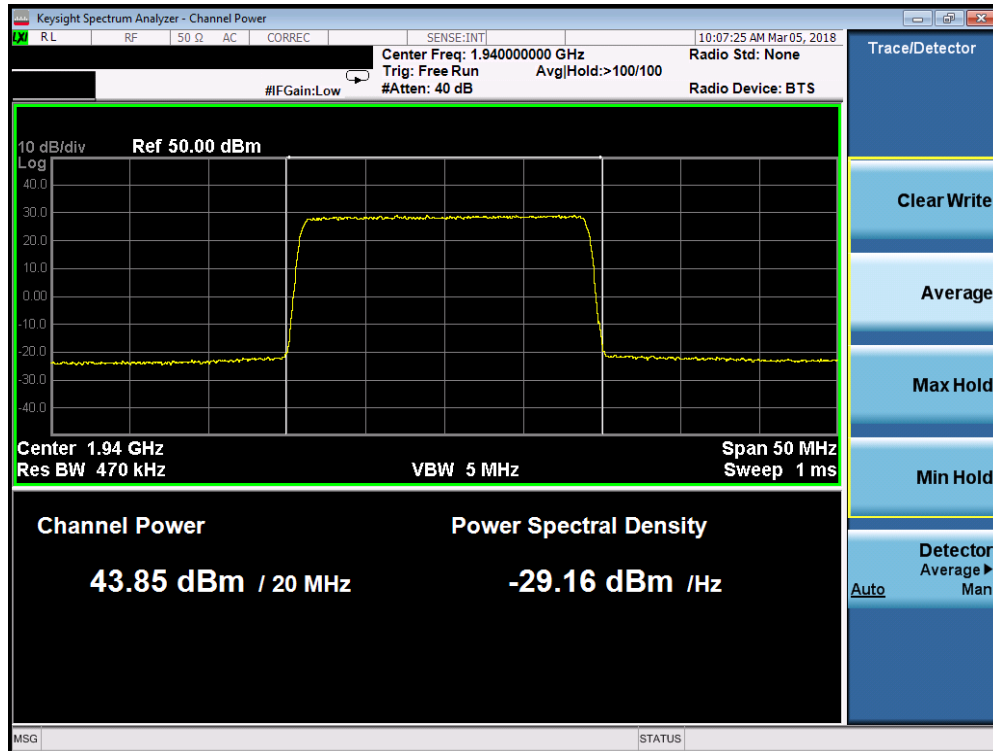


Plot 7-134. Maximum Conducted Power (Band 2 - 20.0MHz QPSK – Mid Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 82 of 264 |

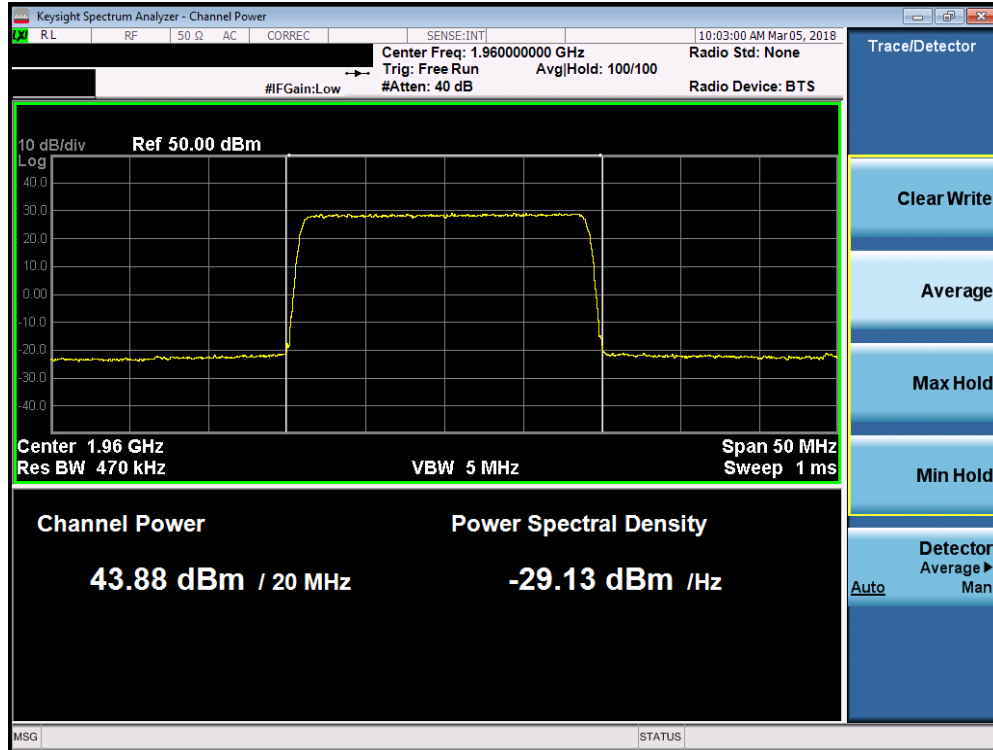


Plot 7-135. Maximum Conducted Power (Band 2 - 20.0MHz QPSK – High Channel)

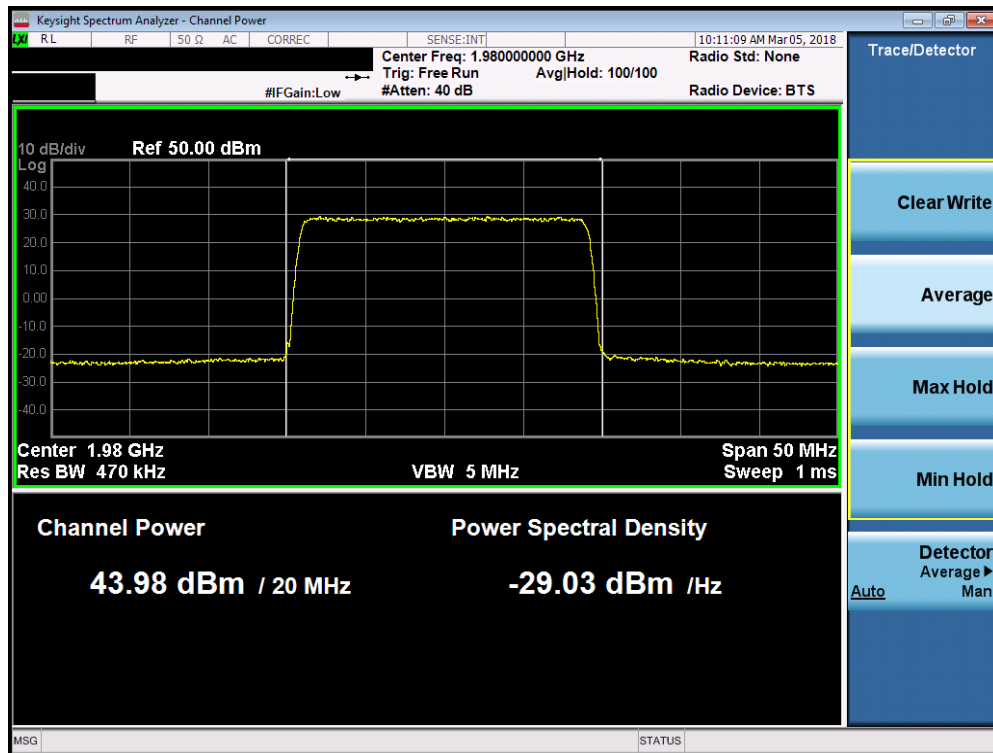


Plot 7-136. Maximum Conducted Power (Band 2 – 20.0MHz 16-QAM – Low Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 83 of 264 |

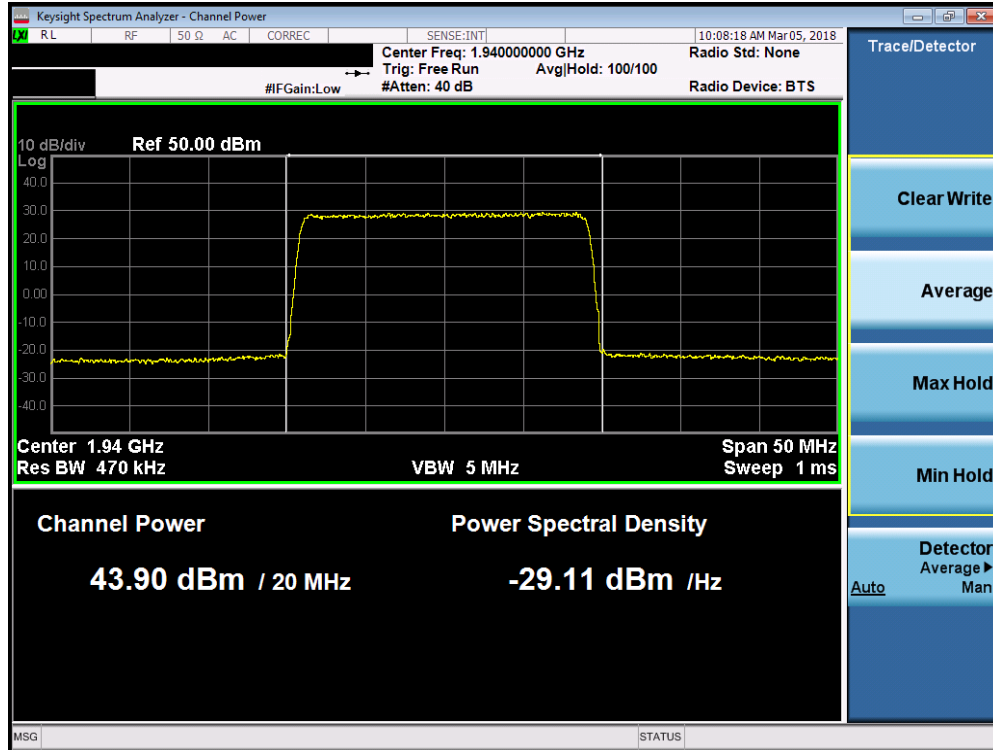


Plot 7-137. Maximum Conducted Power (Band 2 - 20.0MHz 16-QAM – Mid Channel)

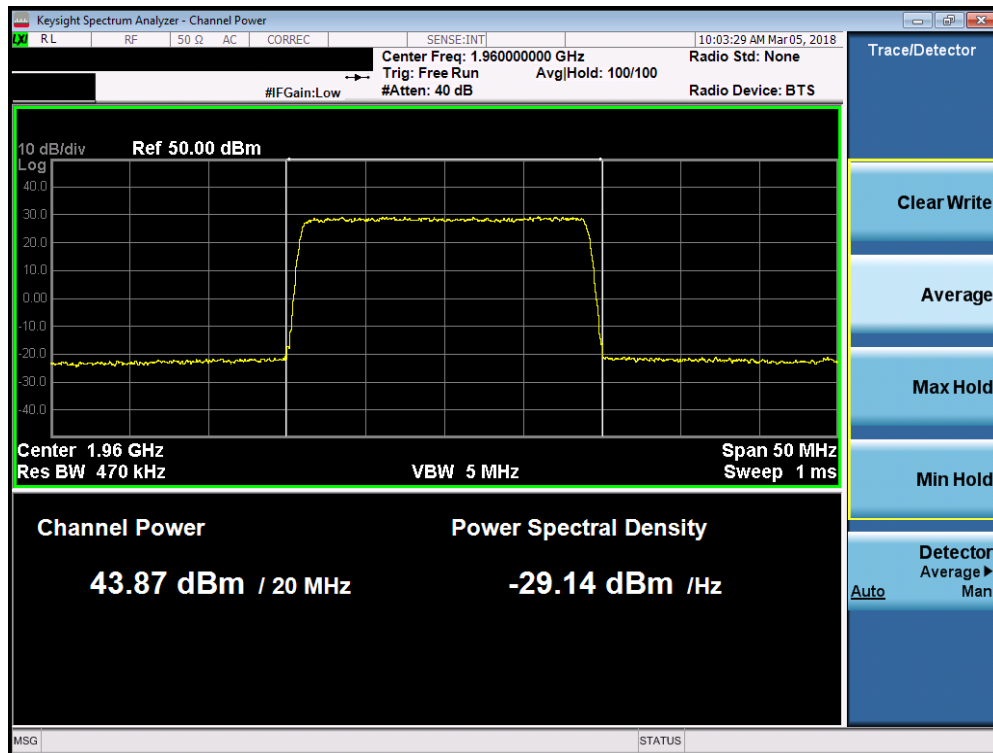


Plot 7-138. Maximum Conducted Power (Band 2 - 20.0MHz 16-QAM – High Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 84 of 264 |

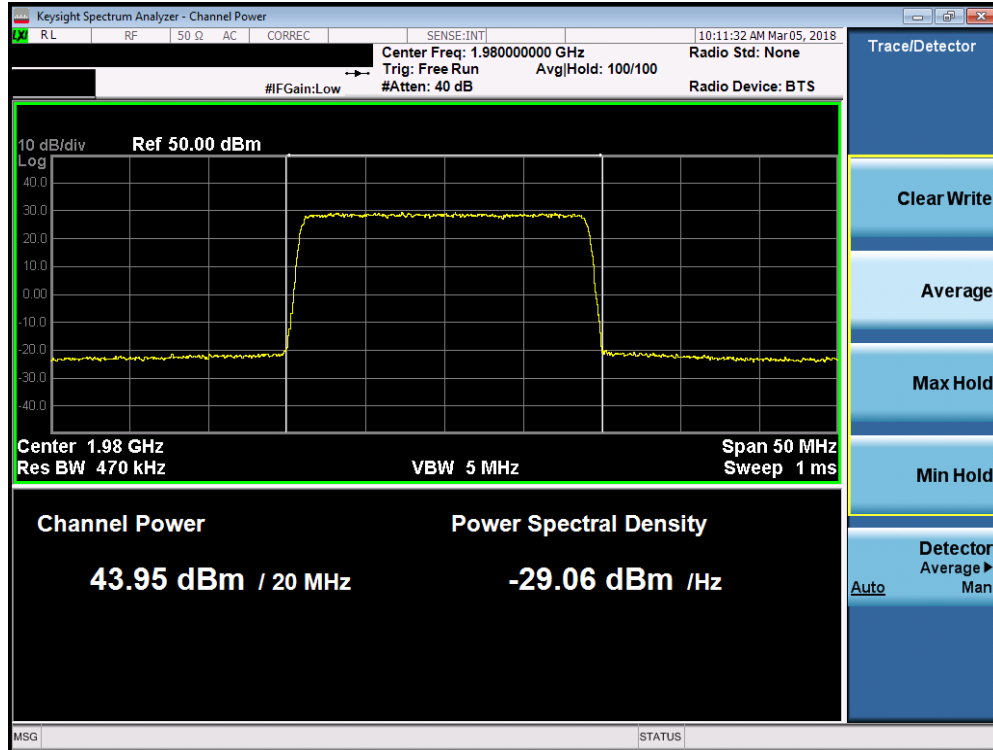


Plot 7-139. Maximum Conducted Power (Band 2 - 20.0MHz 64-QAM – Low Channel)

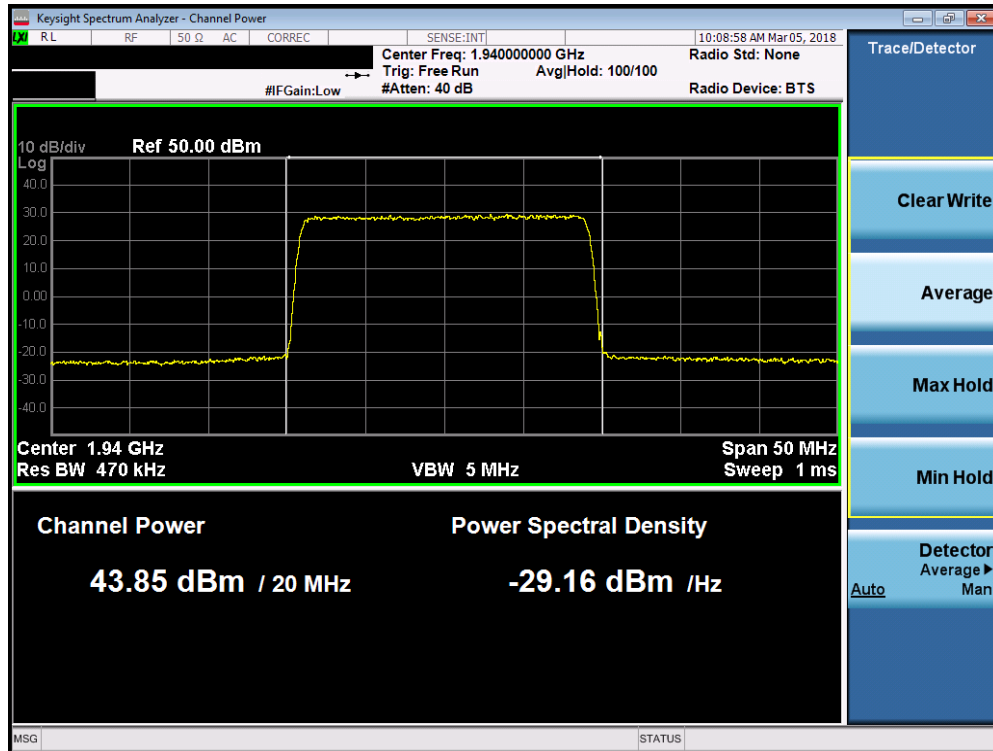


Plot 7-140. Maximum Conducted Power (Band 2 - 20.0MHz 64-QAM – Mid Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 85 of 264 |

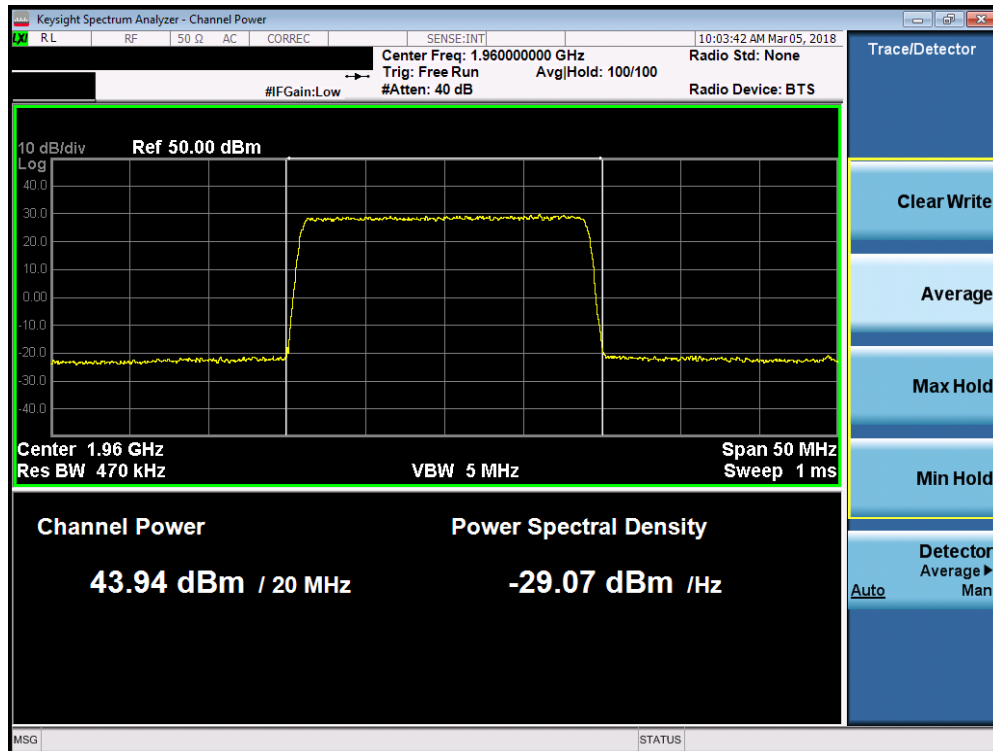


Plot 7-141. Maximum Conducted Power (Band 2 - 20.0MHz 64-QAM – High Channel)

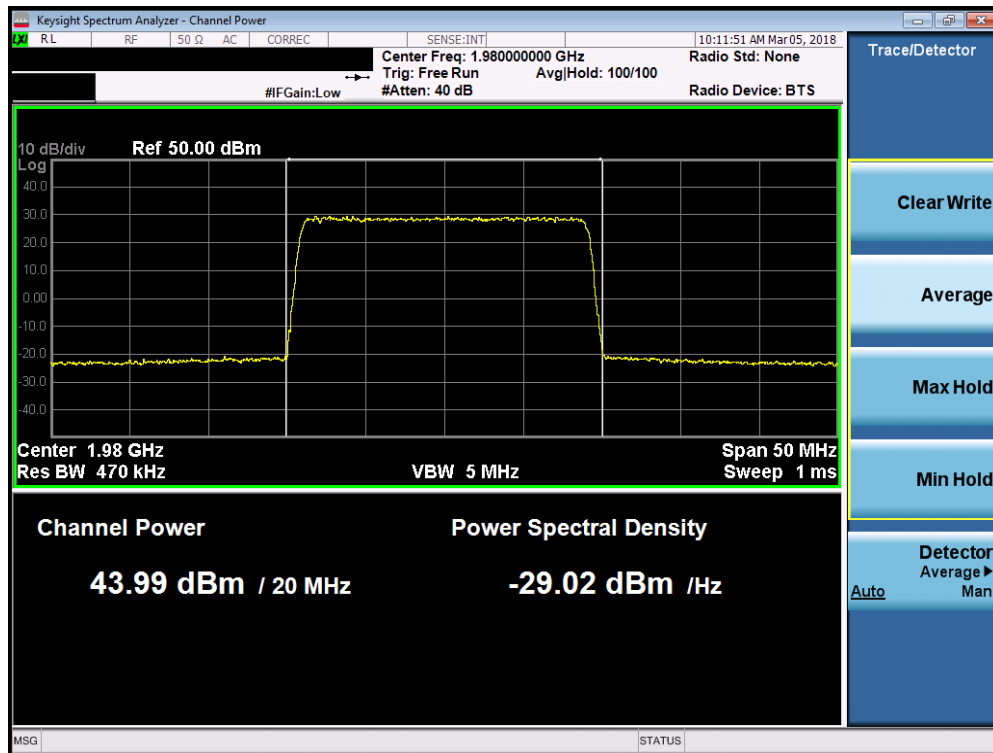


Plot 7-142. Maximum Conducted Power (Band 2 - 20.0MHz 256-QAM – Low Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 86 of 264 |



Plot 7-143. Maximum Conducted Power (Band 2 - 20.0MHz 256-QAM – Mid Channel)



Plot 7-144. Maximum Conducted Power (Band 2 - 20.0MHz 256-QAM – High Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 87 of 264 |

MIMO Conducted Power Measurements

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod. | ANT 1 Conducted Power [dBm] | ANT 2 Conducted Power [dBm] | MIMO Conducted Power [dBm] | MIMO Conducted Power [Watts] |
|-----------------|-------------------------|---------|-----------------------------|-----------------------------|----------------------------|------------------------------|
| 1930.70 | 1.4 | QPSK | 43.33 | 43.32 | 46.34 | 43.01 |
| 1960.00 | 1.4 | QPSK | 43.43 | 43.45 | 46.45 | 44.16 |
| 1989.30 | 1.4 | QPSK | 43.52 | 43.58 | 46.56 | 45.29 |
| 1930.70 | 1.4 | 16-QAM | 43.31 | 43.22 | 46.28 | 42.42 |
| 1960.00 | 1.4 | 16-QAM | 43.28 | 43.43 | 46.37 | 43.31 |
| 1989.30 | 1.4 | 16-QAM | 43.53 | 43.58 | 46.57 | 45.35 |
| 1930.70 | 1.4 | 64-QAM | 43.26 | 43.27 | 46.28 | 42.42 |
| 1960.00 | 1.4 | 64-QAM | 43.35 | 43.55 | 46.46 | 44.27 |
| 1989.30 | 1.4 | 64-QAM | 43.55 | 43.51 | 46.54 | 45.09 |
| 1930.70 | 1.4 | 256-QAM | 43.40 | 43.32 | 46.37 | 43.36 |
| 1960.00 | 1.4 | 256-QAM | 43.43 | 43.48 | 46.47 | 44.31 |
| 1989.30 | 1.4 | 256-QAM | 43.60 | 43.53 | 46.58 | 45.45 |
| 1931.50 | 3 | QPSK | 43.44 | 43.41 | 46.44 | 44.01 |
| 1960.00 | 3 | QPSK | 43.41 | 43.60 | 46.52 | 44.84 |
| 1988.50 | 3 | QPSK | 43.70 | 43.65 | 46.69 | 46.62 |
| 1931.50 | 3 | 16-QAM | 43.56 | 43.51 | 46.55 | 45.14 |
| 1960.00 | 3 | 16-QAM | 43.45 | 43.62 | 46.55 | 45.15 |
| 1988.50 | 3 | 16-QAM | 43.60 | 43.69 | 46.66 | 46.30 |
| 1931.50 | 3 | 64-QAM | 43.52 | 43.39 | 46.47 | 44.32 |
| 1960.00 | 3 | 64-QAM | 43.50 | 43.55 | 46.54 | 45.03 |
| 1988.50 | 3 | 64-QAM | 43.63 | 43.53 | 46.59 | 45.61 |
| 1931.50 | 3 | 256-QAM | 43.41 | 43.45 | 46.44 | 44.06 |
| 1960.00 | 3 | 256-QAM | 43.38 | 43.51 | 46.46 | 44.22 |
| 1988.50 | 3 | 256-QAM | 43.54 | 43.48 | 46.52 | 44.88 |
| 1932.50 | 5 | QPSK | 43.65 | 43.58 | 46.63 | 45.98 |
| 1960.00 | 5 | QPSK | 43.60 | 43.57 | 46.60 | 45.66 |
| 1987.50 | 5 | QPSK | 43.75 | 43.71 | 46.74 | 47.21 |
| 1932.50 | 5 | 16-QAM | 43.66 | 43.45 | 46.57 | 45.36 |
| 1960.00 | 5 | 16-QAM | 43.54 | 43.71 | 46.64 | 46.09 |
| 1987.50 | 5 | 16-QAM | 43.71 | 43.69 | 46.71 | 46.88 |
| 1932.50 | 5 | 64-QAM | 43.57 | 43.65 | 46.62 | 45.92 |
| 1960.00 | 5 | 64-QAM | 43.54 | 43.63 | 46.60 | 45.66 |
| 1987.50 | 5 | 64-QAM | 43.69 | 43.75 | 46.73 | 47.10 |
| 1932.50 | 5 | 256-QAM | 43.67 | 43.59 | 46.64 | 46.14 |
| 1960.00 | 5 | 256-QAM | 43.59 | 43.59 | 46.60 | 45.71 |
| 1987.50 | 5 | 256-QAM | 43.68 | 43.66 | 46.68 | 46.56 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod. | ANT 1 Conducted Power [dBm] | ANT 2 Conducted Power [dBm] | MIMO Conducted Power [dBm] | MIMO Conducted Power [Watts] |
|-----------------|-------------------------|---------|-----------------------------|-----------------------------|----------------------------|------------------------------|
| 1935.00 | 10 | QPSK | 43.83 | 43.76 | 46.81 | 47.92 |
| 1960.00 | 10 | QPSK | 43.82 | 43.90 | 46.87 | 48.65 |
| 1985.00 | 10 | QPSK | 43.84 | 43.95 | 46.91 | 49.04 |
| 1935.00 | 10 | 16-QAM | 43.82 | 43.67 | 46.76 | 47.38 |
| 1960.00 | 10 | 16-QAM | 43.73 | 43.93 | 46.84 | 48.32 |
| 1985.00 | 10 | 16-QAM | 43.79 | 44.00 | 46.91 | 49.05 |
| 1935.00 | 10 | 64-QAM | 43.75 | 43.81 | 46.79 | 47.76 |
| 1960.00 | 10 | 64-QAM | 43.80 | 43.89 | 46.86 | 48.48 |
| 1985.00 | 10 | 64-QAM | 43.84 | 43.99 | 46.93 | 49.27 |
| 1935.00 | 10 | 256-QAM | 43.76 | 43.70 | 46.74 | 47.21 |
| 1960.00 | 10 | 256-QAM | 43.84 | 43.88 | 46.87 | 48.64 |
| 1985.00 | 10 | 256-QAM | 43.76 | 43.97 | 46.88 | 48.71 |
| 1937.50 | 15 | QPSK | 43.48 | 43.45 | 46.48 | 44.42 |
| 1960.00 | 15 | QPSK | 43.31 | 43.73 | 46.54 | 45.03 |
| 1985.00 | 15 | QPSK | 43.61 | 43.64 | 46.64 | 46.08 |
| 1937.50 | 15 | 16-QAM | 43.61 | 43.49 | 46.56 | 45.30 |
| 1960.00 | 15 | 16-QAM | 43.35 | 43.48 | 46.43 | 43.91 |
| 1985.00 | 15 | 16-QAM | 43.53 | 43.55 | 46.55 | 45.19 |
| 1937.50 | 15 | 64-QAM | 43.53 | 43.50 | 46.53 | 44.93 |
| 1960.00 | 15 | 64-QAM | 43.38 | 43.60 | 46.50 | 44.69 |
| 1985.00 | 15 | 64-QAM | 43.58 | 43.64 | 46.62 | 45.92 |
| 1937.50 | 15 | 256-QAM | 43.66 | 43.59 | 46.64 | 46.08 |
| 1960.00 | 15 | 256-QAM | 43.41 | 43.74 | 46.59 | 45.59 |
| 1985.00 | 15 | 256-QAM | 43.52 | 43.72 | 46.63 | 46.04 |
| 1940.00 | 20 | QPSK | 43.81 | 43.85 | 46.84 | 48.31 |
| 1960.00 | 20 | QPSK | 43.61 | 43.72 | 46.68 | 46.51 |
| 1980.00 | 20 | QPSK | 43.82 | 44.00 | 46.92 | 49.22 |
| 1940.00 | 20 | 16-QAM | 43.78 | 43.85 | 46.83 | 48.14 |
| 1960.00 | 20 | 16-QAM | 43.56 | 43.88 | 46.73 | 47.13 |
| 1980.00 | 20 | 16-QAM | 43.84 | 43.98 | 46.92 | 49.21 |
| 1940.00 | 20 | 64-QAM | 43.83 | 43.90 | 46.88 | 48.70 |
| 1960.00 | 20 | 64-QAM | 43.56 | 43.87 | 46.73 | 47.08 |
| 1980.00 | 20 | 64-QAM | 43.89 | 43.95 | 46.93 | 49.32 |
| 1940.00 | 20 | 256-QAM | 43.80 | 43.85 | 46.84 | 48.25 |
| 1960.00 | 20 | 256-QAM | 43.63 | 43.94 | 46.80 | 47.84 |
| 1980.00 | 20 | 256-QAM | 43.78 | 43.99 | 46.90 | 48.94 |

Table 7-2. Maximum Average Conducted Power

| | | | | |
|--|---|--------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 88 of 264 |

Note:

Per ANSI C63.26-2015 Section 6.4.3.1 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 1930.7MHz in QPSK modulation, the average conducted output power was measured to be 43.33 dBm for Antenna-1 and 43.32 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(43.33 \text{ dBm} + 43.32 \text{ dBm}) = (21.53 \text{ W} + 21.48 \text{ W}) = 43.01 \text{ W} = 46.34 \text{ dBm}$$

| | | | | |
|--|---|---------------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 89 of 264 |

7.3 Occupied Bandwidth

\$2.1049

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

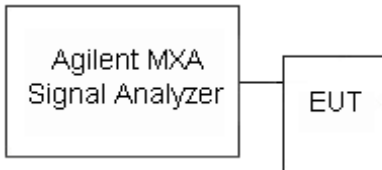


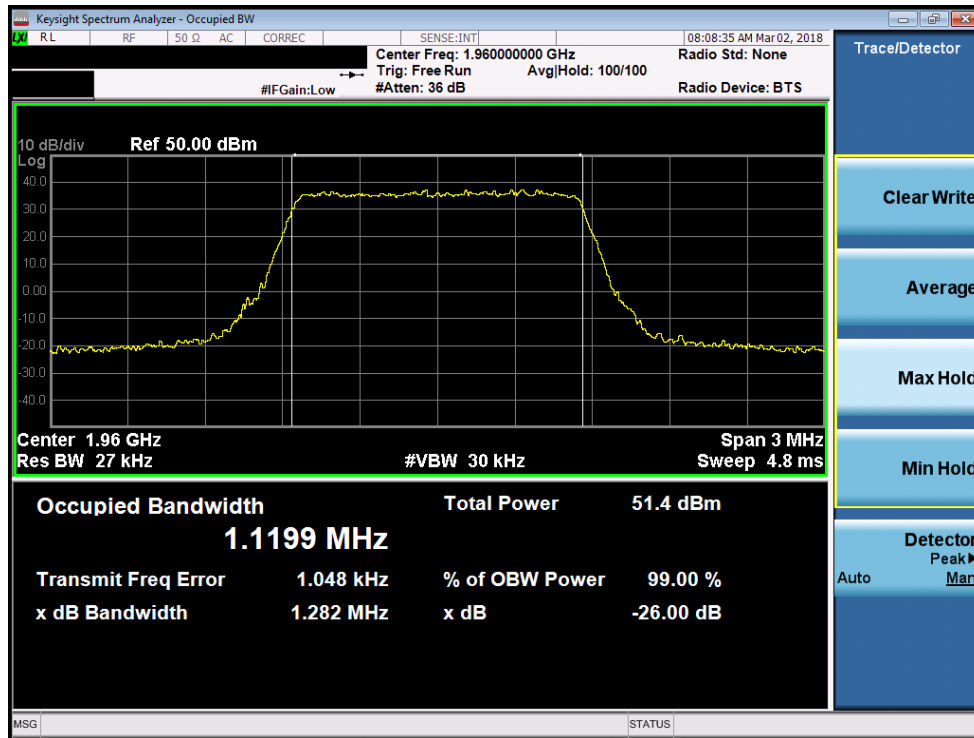
Figure 7-1. Test Instrument & Measurement Setup

Test Notes

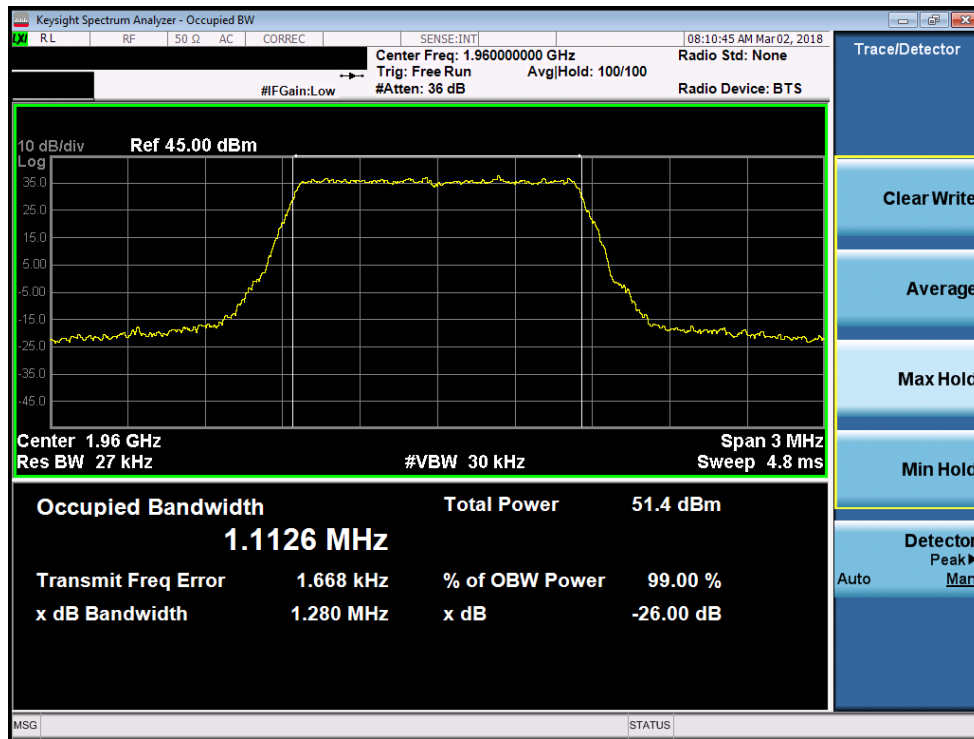
None.

| | | | | |
|--|---|---------------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 90 of 264 |

Band 2 – Antenna 1

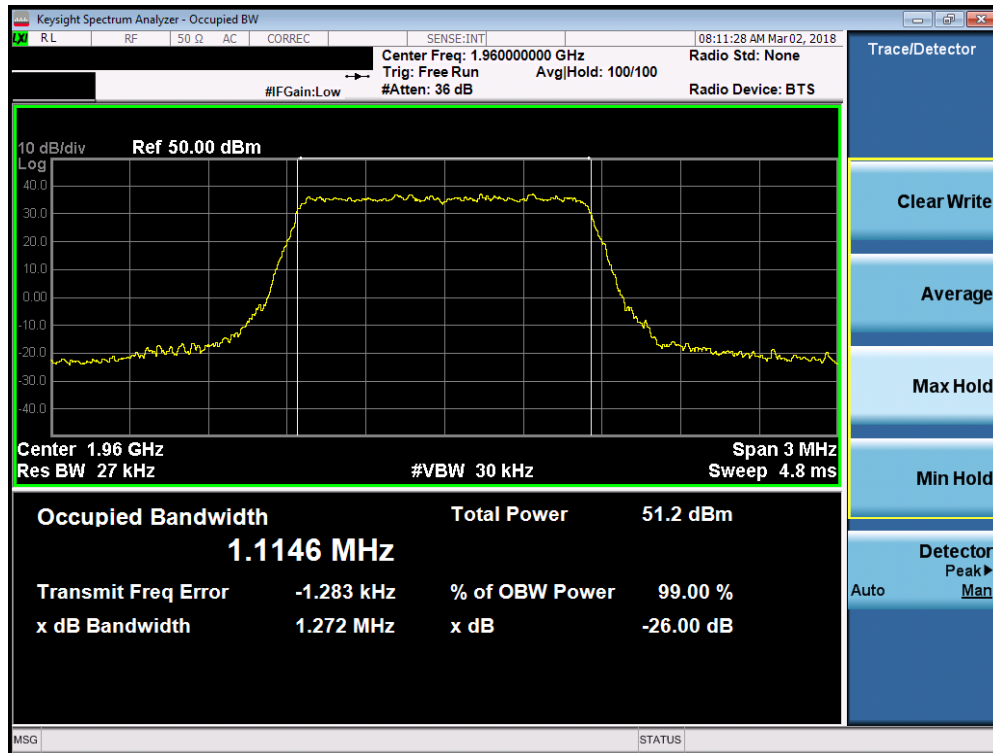


Plot 7-145. Occupied Bandwidth Plot (Band 2 - 1.4MHz QPSK)

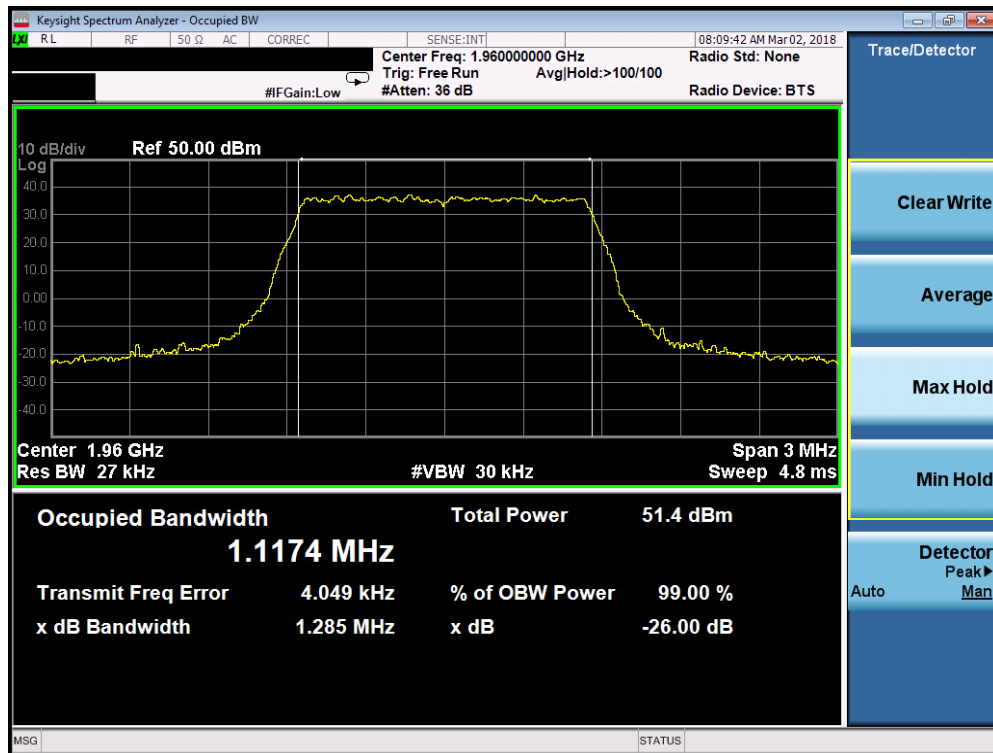


Plot 7-146. Occupied Bandwidth Plot (Band 2 - 1.4MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 91 of 264 |

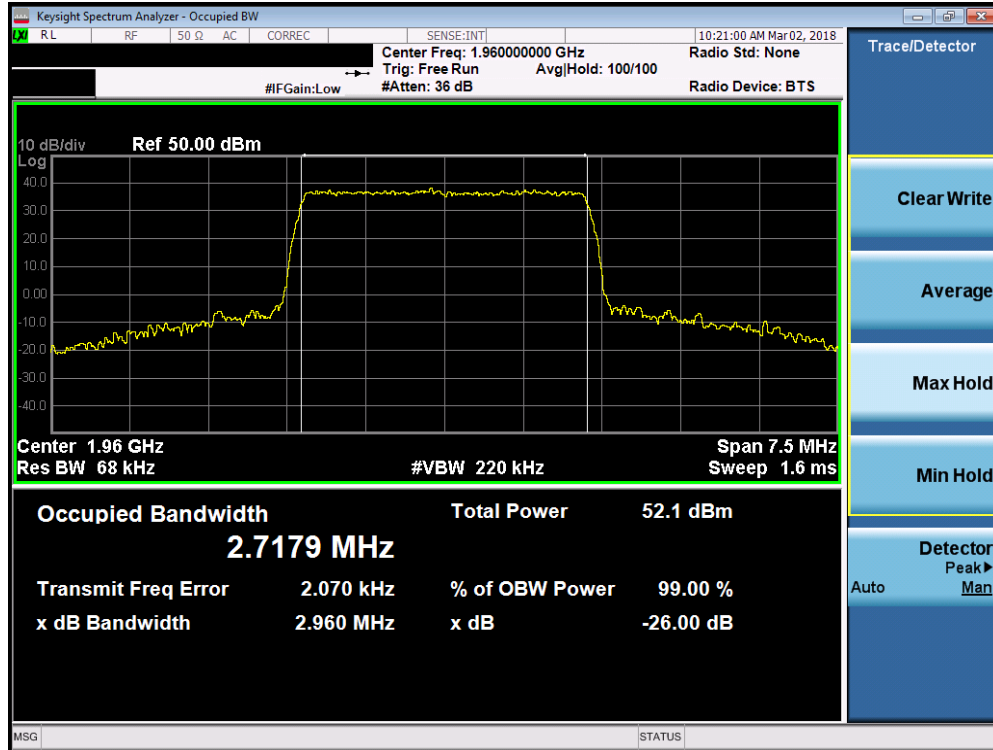


Plot 7-147. Occupied Bandwidth Plot (Band 2 - 1.4MHz 64-QAM)

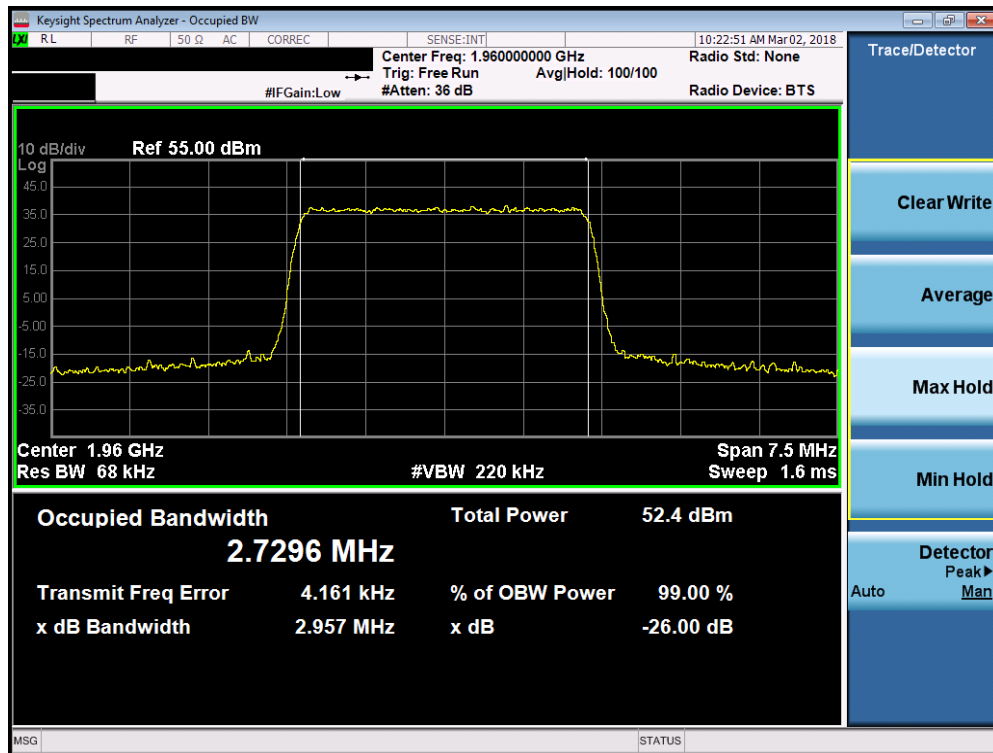


Plot 7-148. Occupied Bandwidth Plot (Band 2 - 1.4MHz 256-QAM)

| | | | | | |
|--|-----------------------------|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: QLJ4GRFN-002 | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | | Page 92 of 264 |

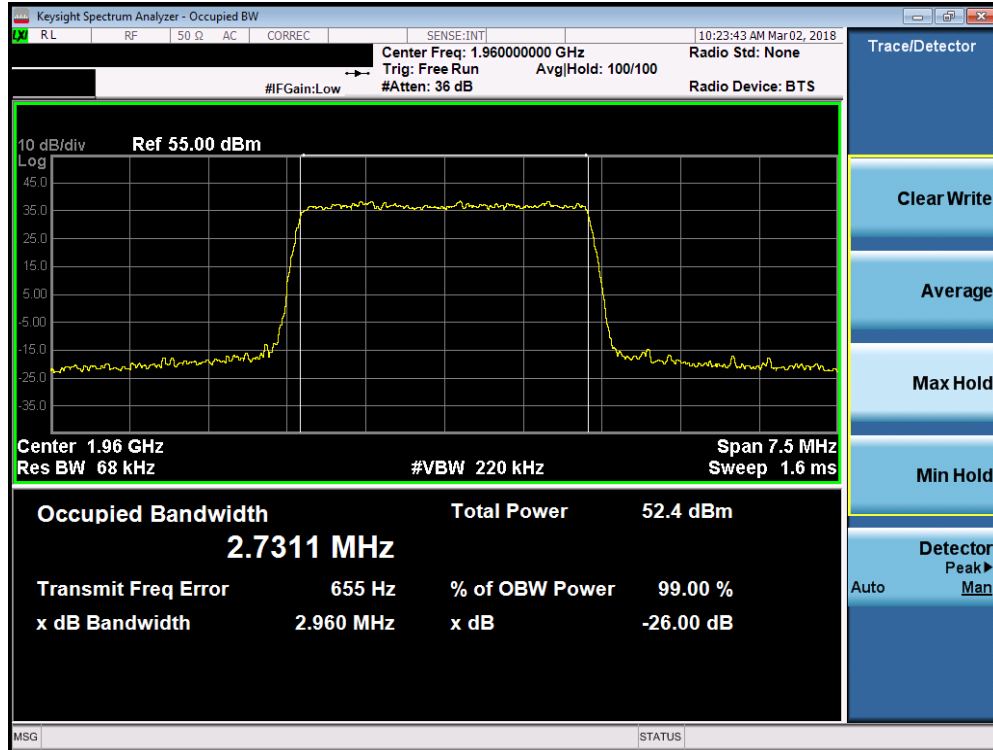


Plot 7-149. Occupied Bandwidth Plot (Band 2 - 3.0MHz QPSK)

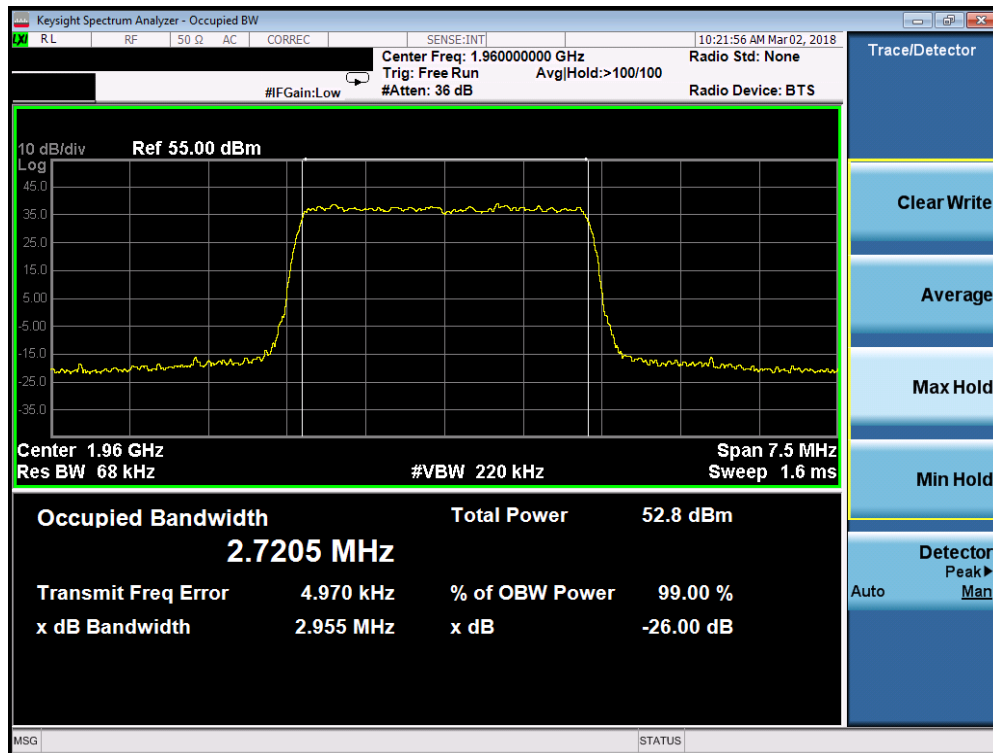


Plot 7-150. Occupied Bandwidth Plot (Band 2 - 3.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 93 of 264 |

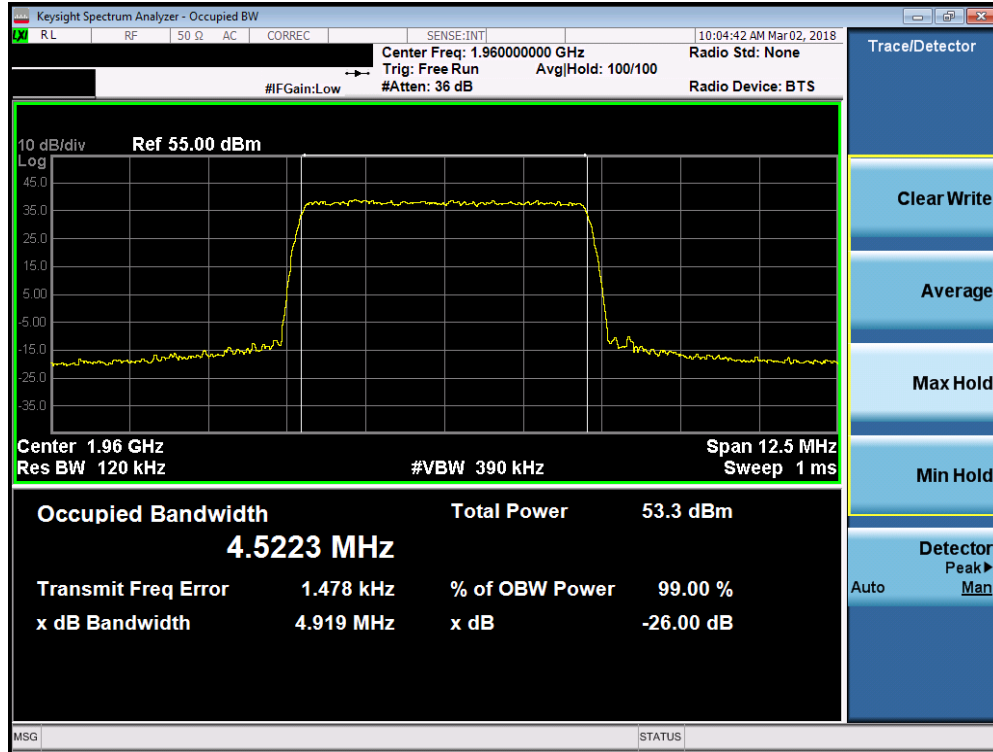


Plot 7-151. Occupied Bandwidth Plot (Band 2 - 3.0MHz 64-QAM)

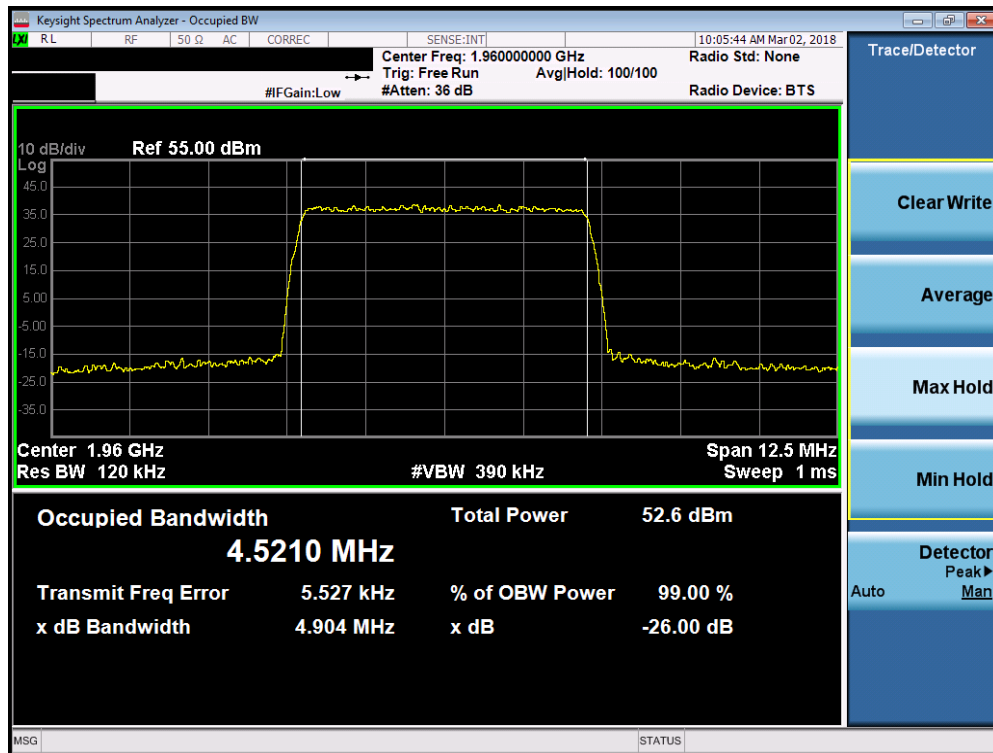


Plot 7-152. Occupied Bandwidth Plot (Band 2 - 3.0MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 94 of 264 |

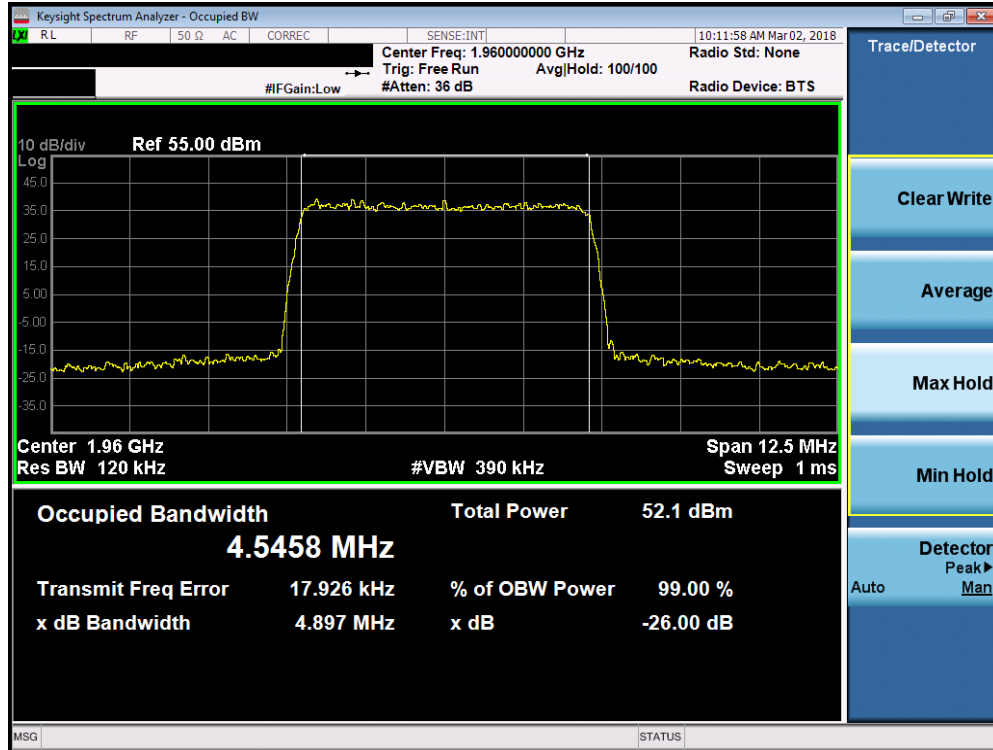


Plot 7-153. Occupied Bandwidth Plot (Band 2 - 5.0MHz QPSK)

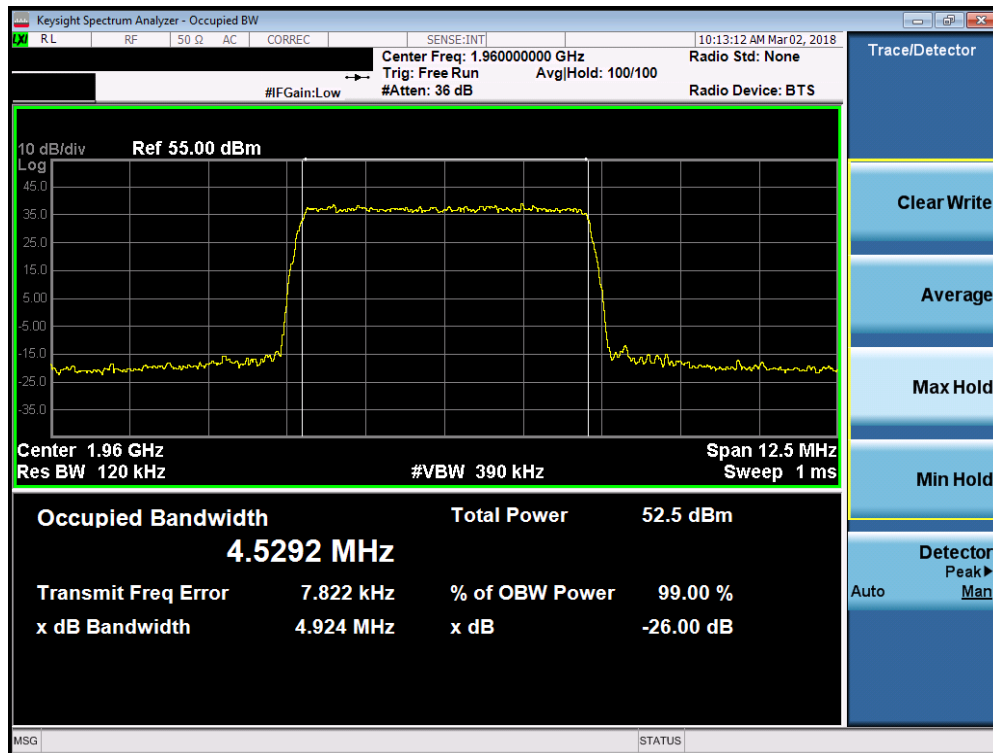


Plot 7-154. Occupied Bandwidth Plot (Band 2 - 5.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 95 of 264 |

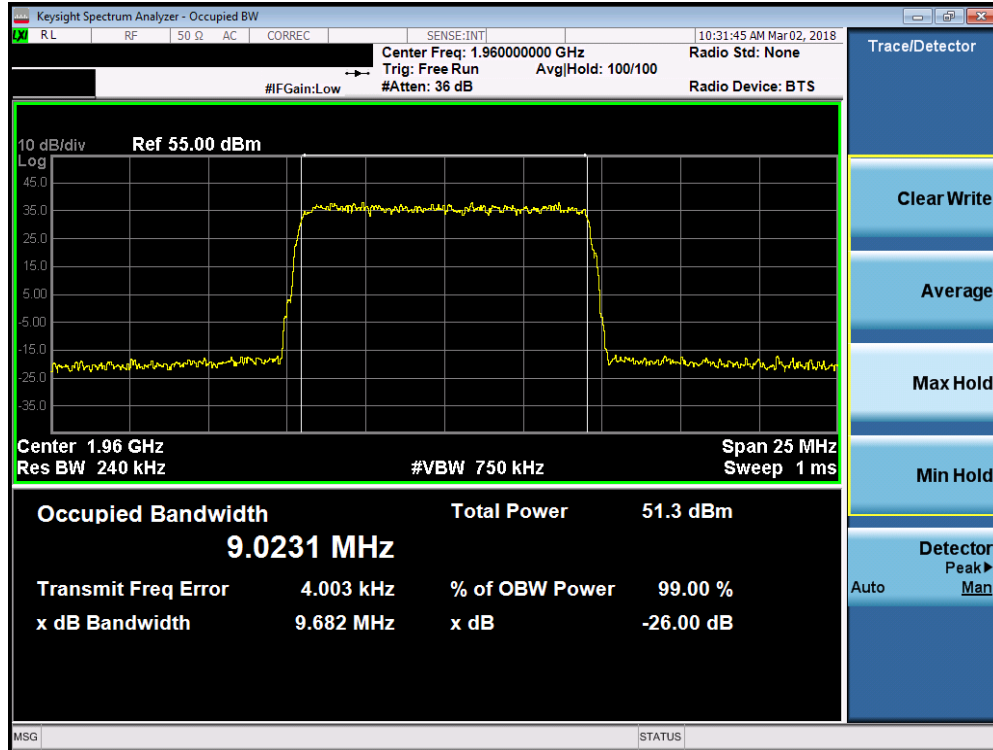


Plot 7-155. Occupied Bandwidth Plot (Band 2 - 5.0MHz 64-QAM)

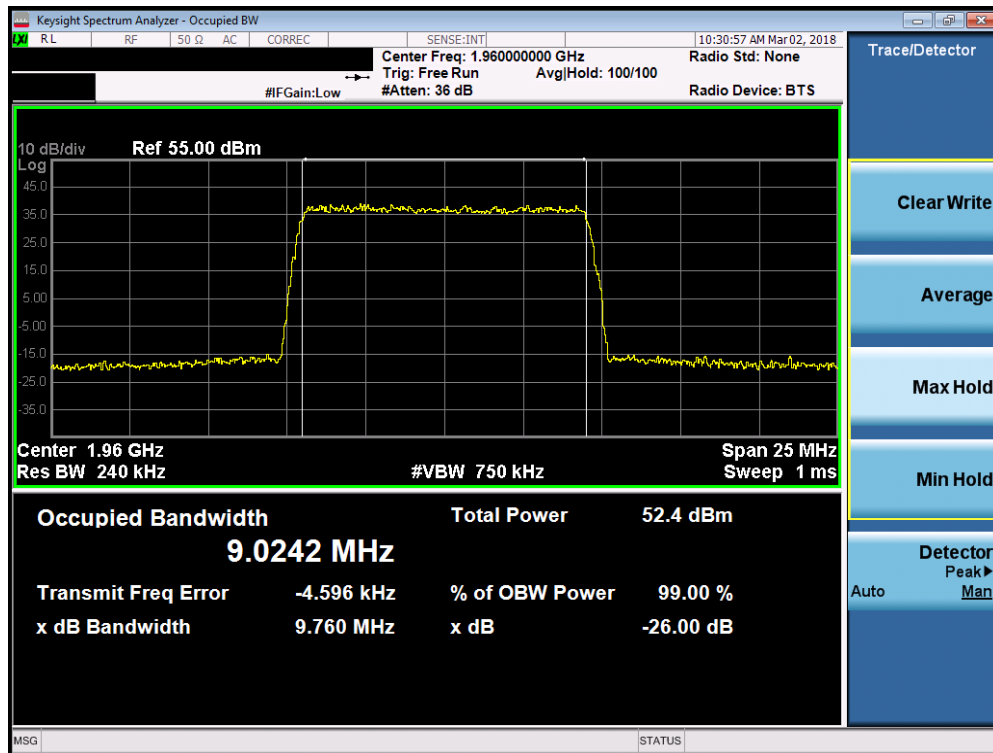


Plot 7-156. Occupied Bandwidth Plot (Band 2 - 5.0MHz 256-QAM)

| | | | |
|--|--|--------------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | Page 96 of 264 |

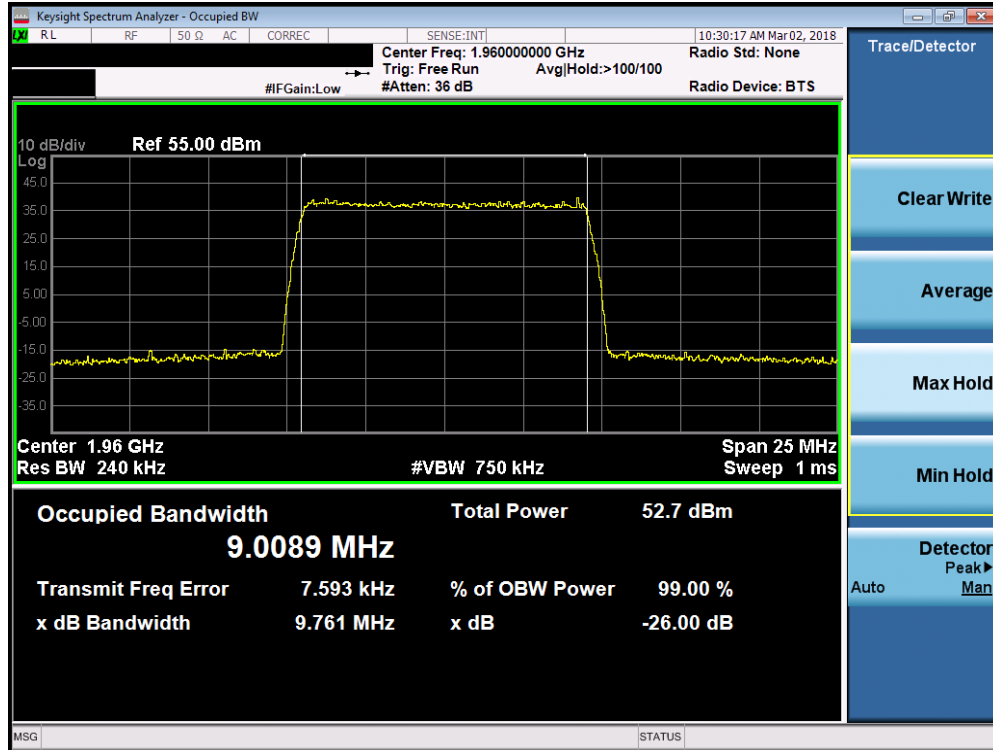


Plot 7-157. Occupied Bandwidth Plot (Band 2 - 10.0MHz QPSK)

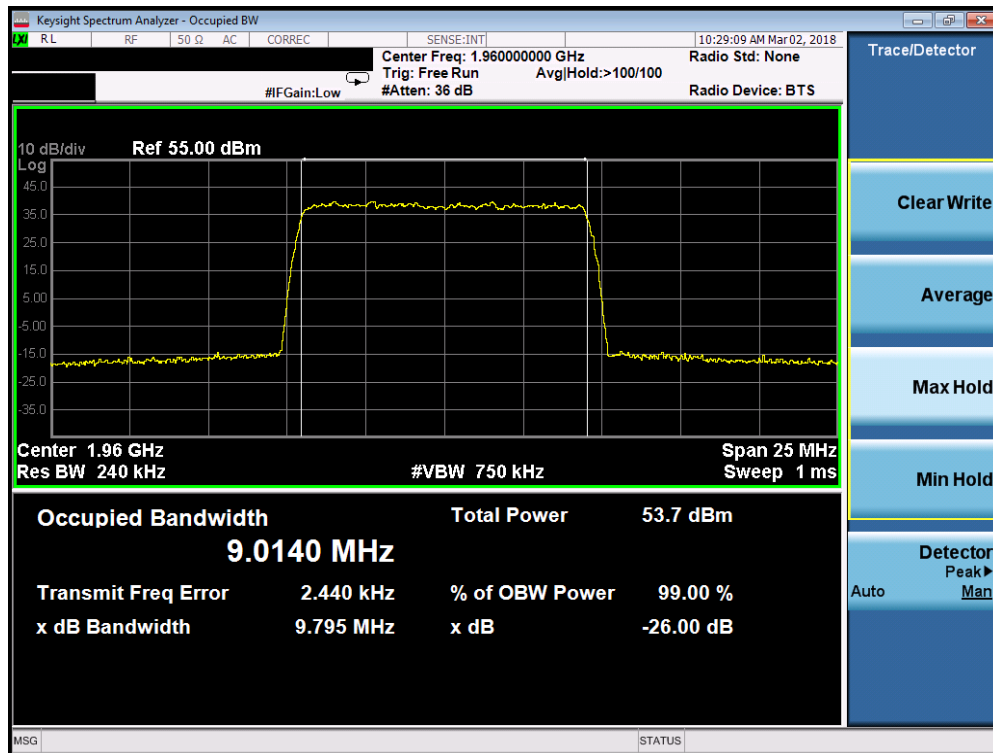


Plot 7-158. Occupied Bandwidth Plot (Band 2 - 10.0MHz 16-QAM)

| | | | |
|--|--|--------------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | Page 97 of 264 |

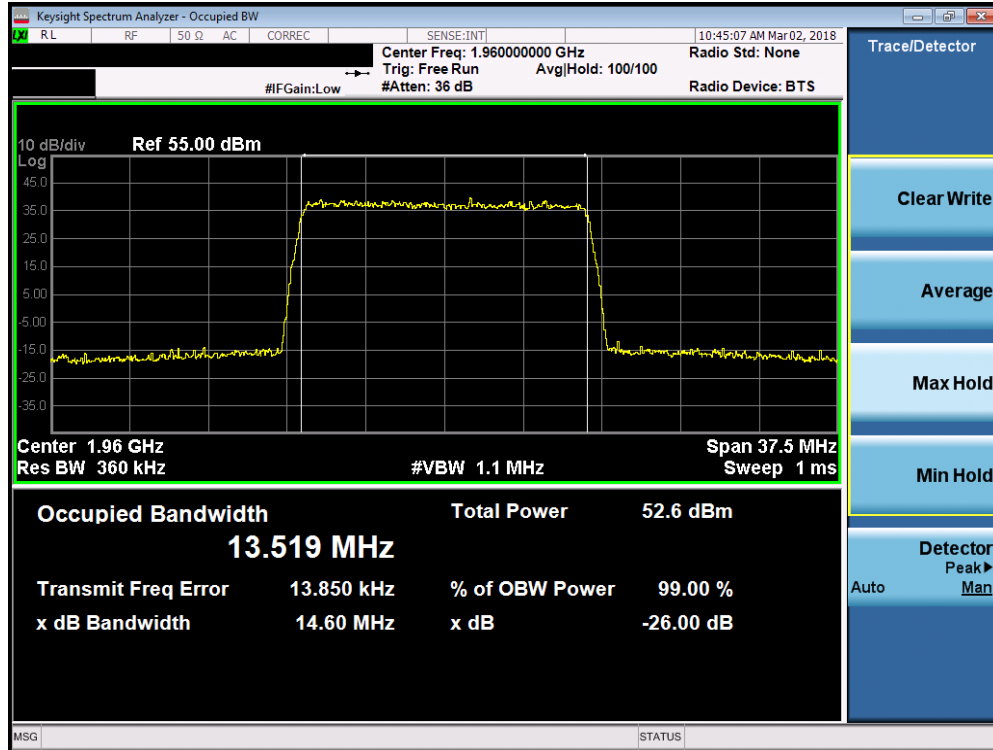


Plot 7-159. Occupied Bandwidth Plot (Band 2 - 10.0MHz 64-QAM)

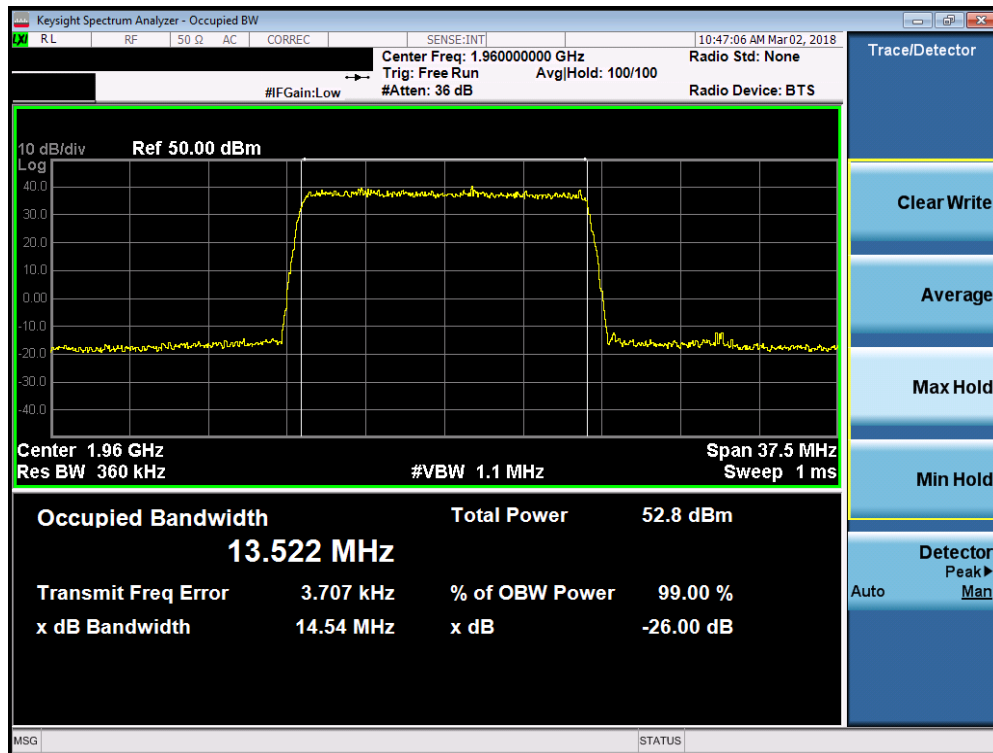


Plot 7-160. Occupied Bandwidth Plot (Band 2 - 10.0MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 98 of 264 |

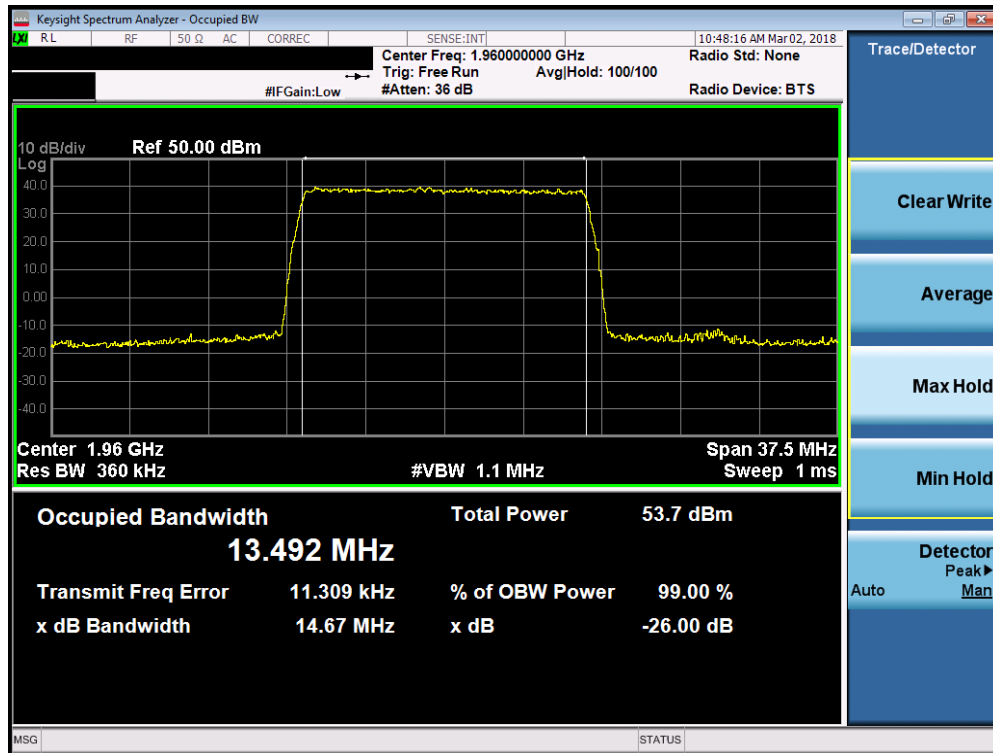


Plot 7-161. Occupied Bandwidth Plot (Band 2 - 15.0MHz QPSK)

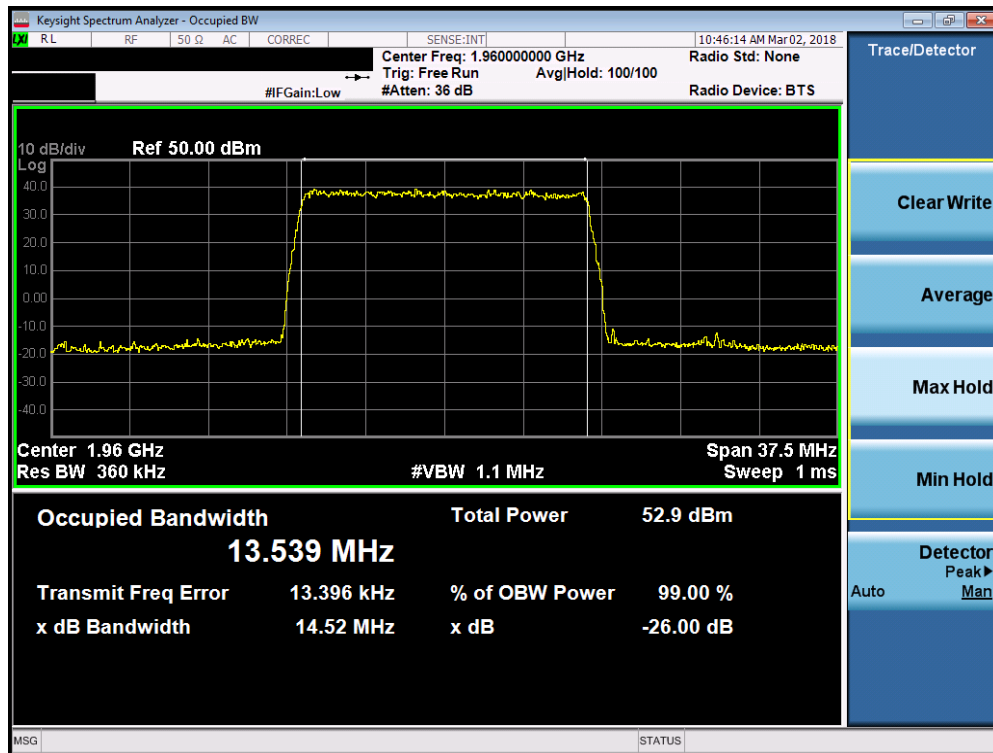


Plot 7-162. Occupied Bandwidth Plot (Band 2 - 15.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 99 of 264 |

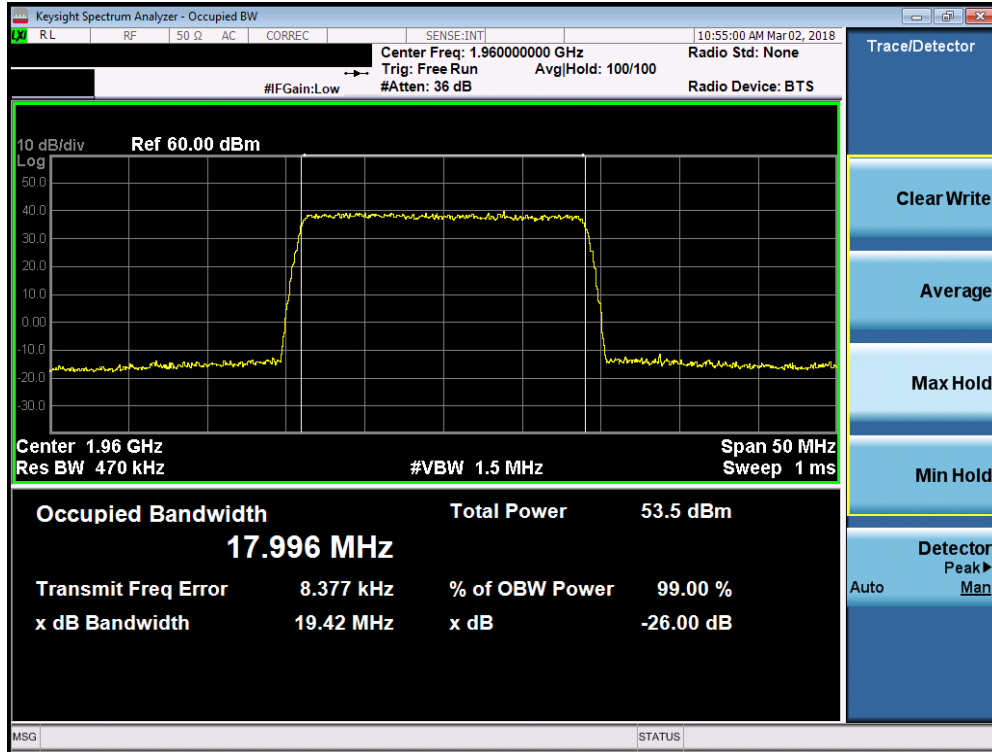


Plot 7-163. Occupied Bandwidth Plot (Band 2 - 15.0MHz 64-QAM)

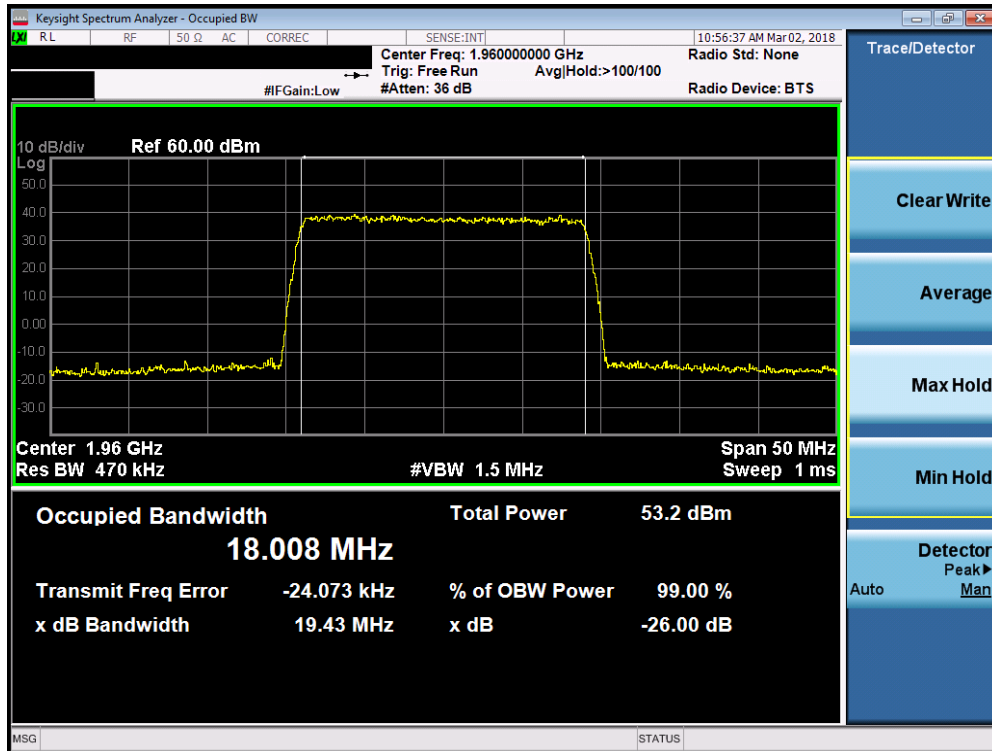


Plot 7-164. Occupied Bandwidth Plot (Band 2 - 15.0MHz 256-QAM)

| | | | | | |
|--|-----------------------------|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: QLJ4GRFN-002 | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | | Page 100 of 264 |

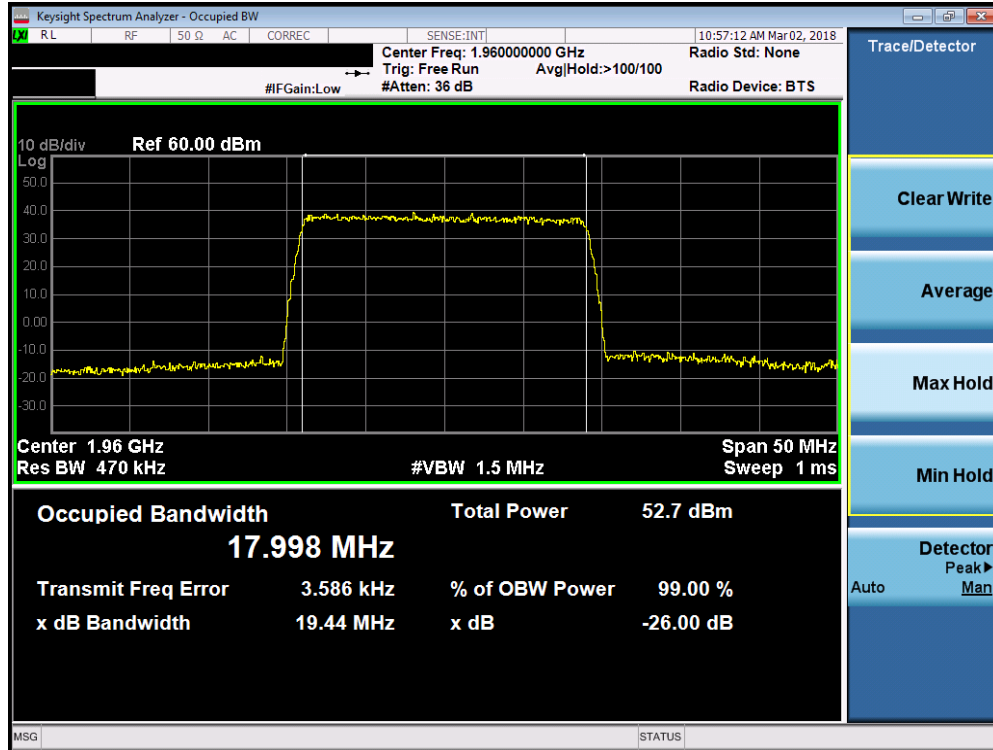


Plot 7-165. Occupied Bandwidth Plot (Band 2 - 20.0MHz QPSK)

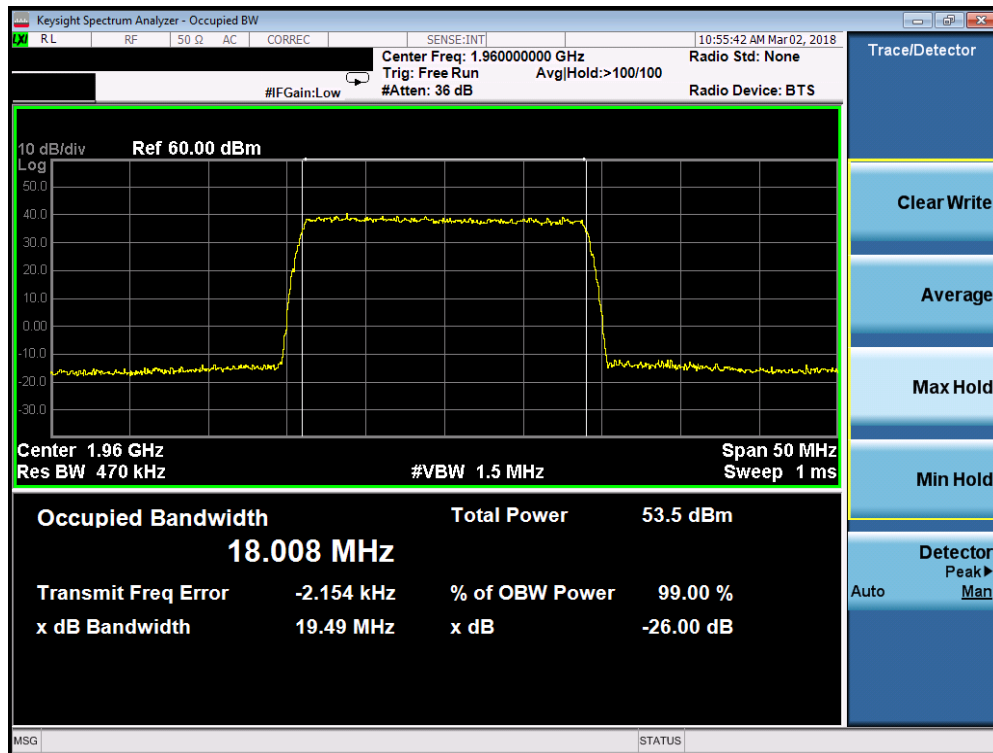


Plot 7-166. Occupied Bandwidth Plot (Band 2 - 20.0MHz 16-QAM)

| | | | | | |
|--|-----------------------------|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: QLJ4GRFN-002 | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | | Page 101 of 264 |



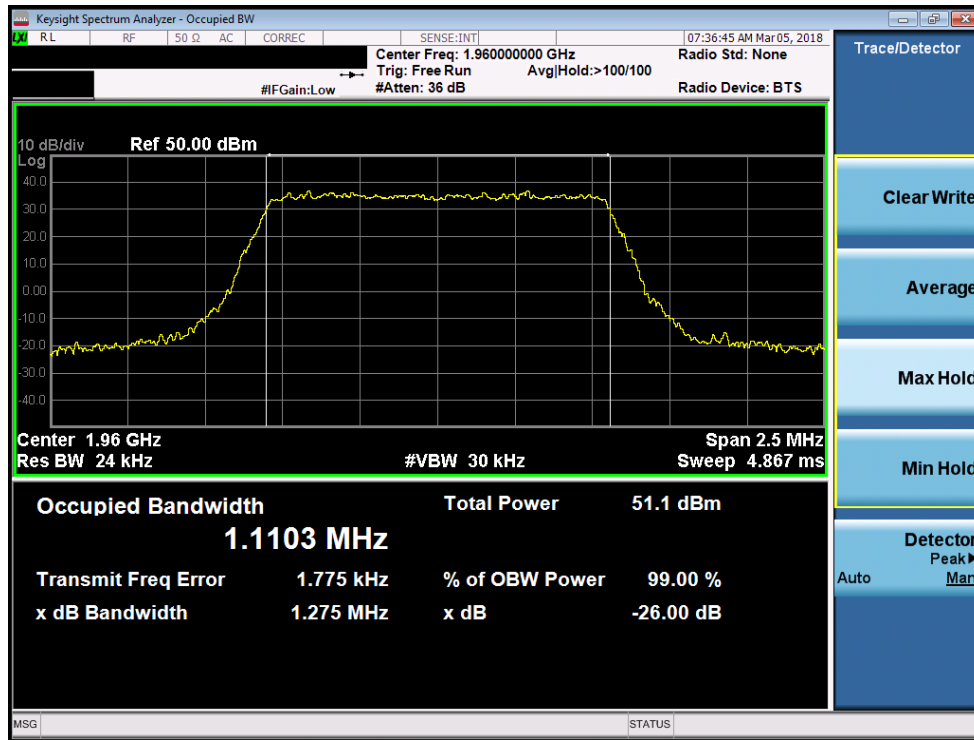
Plot 7-167. Occupied Bandwidth Plot (Band 2 - 20.0MHz 64-QAM)



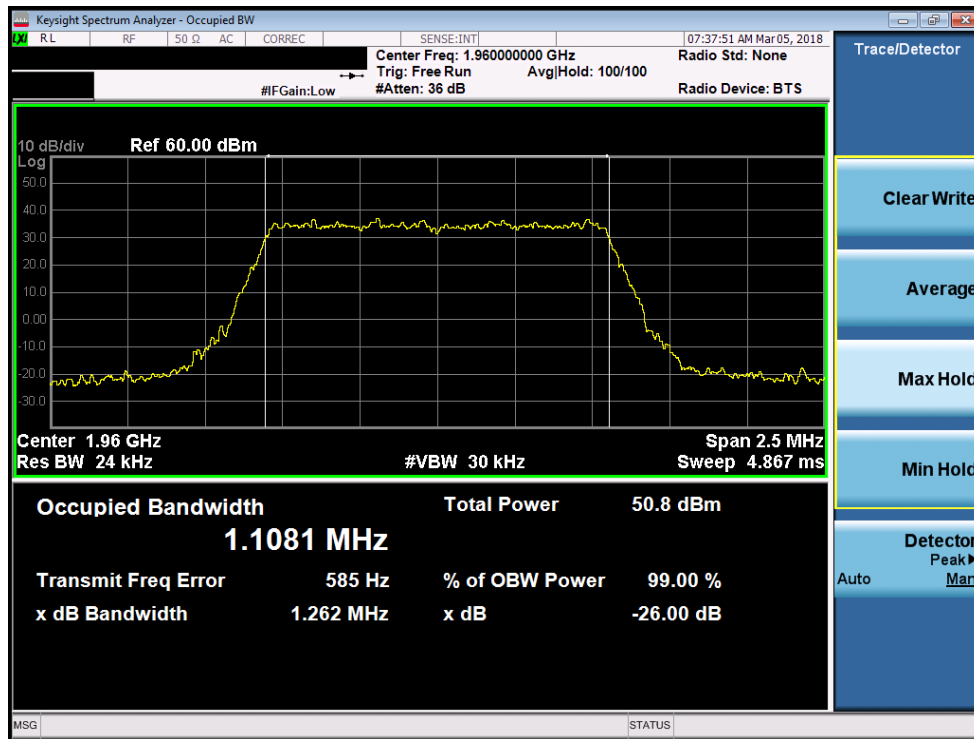
Plot 7-168. Occupied Bandwidth Plot (Band 2 - 20.0MHz 256-QAM)

| | | | |
|--|---|--------------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | Page 102 of 264 |

Band 2 – Antenna 2

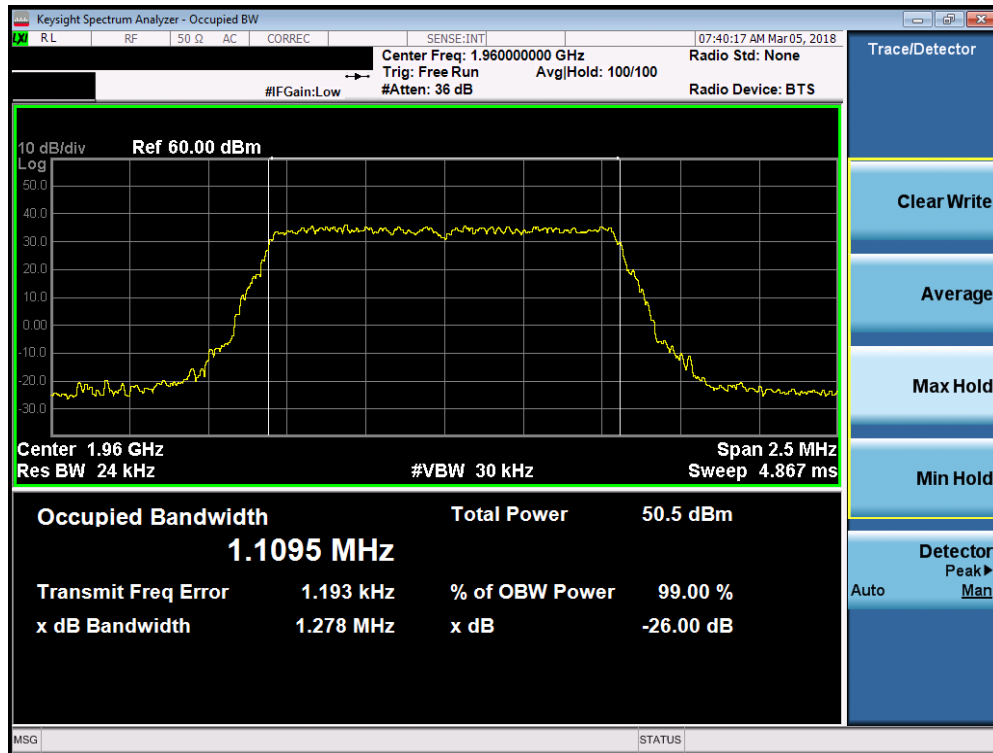


Plot 7-169. Occupied Bandwidth Plot (Band 2 - 1.4MHz QPSK)

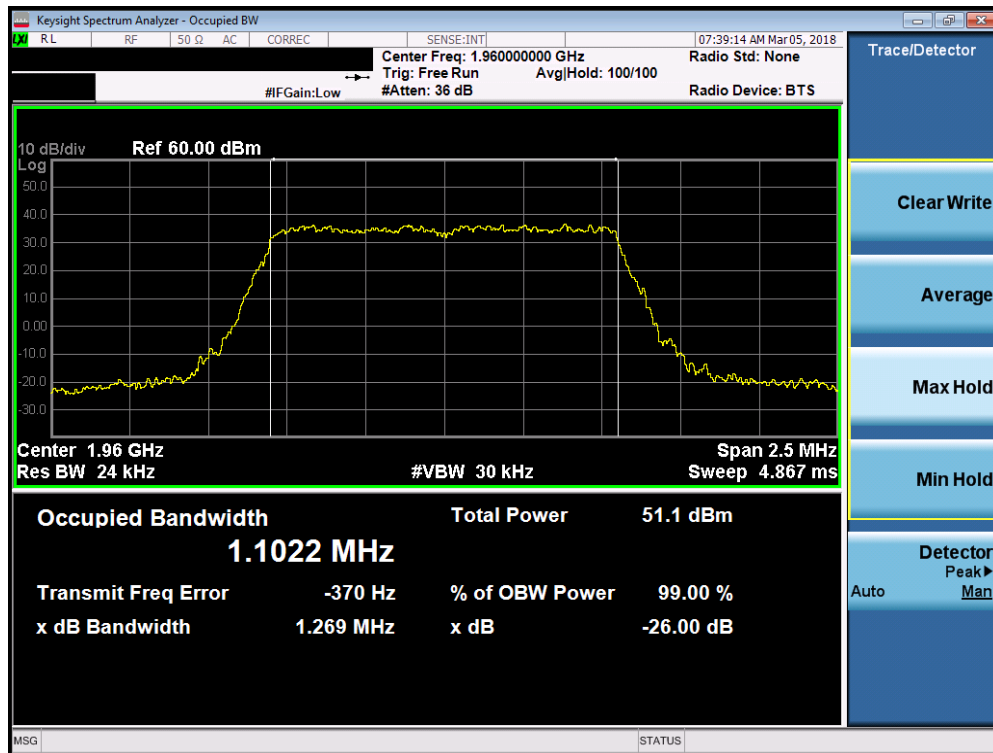


Plot 7-170. Occupied Bandwidth Plot (Band 2 - 1.4MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 103 of 264 |

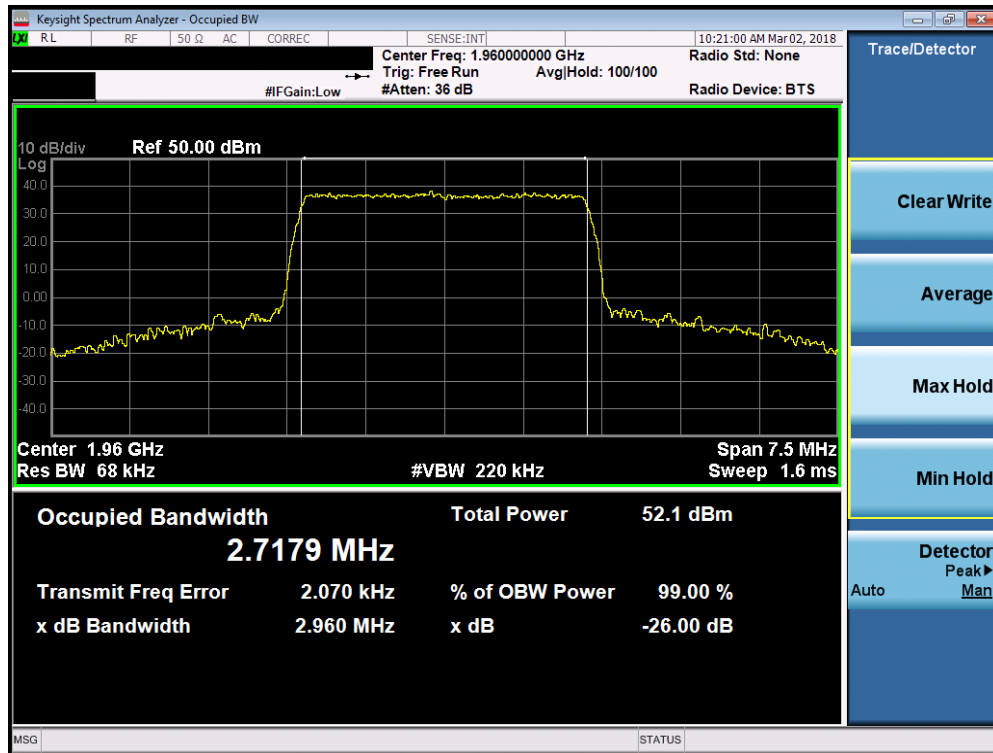


Plot 7-171. Occupied Bandwidth Plot (Band 2 - 1.4MHz 64-QAM)

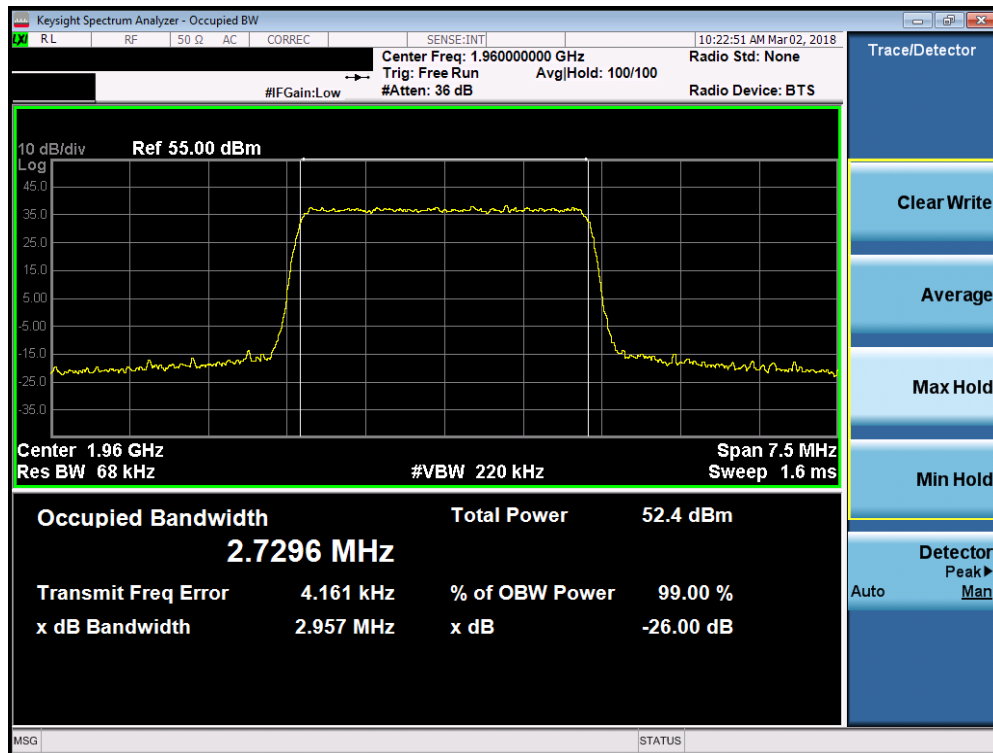


Plot 7-172. Occupied Bandwidth Plot (Band 2 - 1.4MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 104 of 264 |

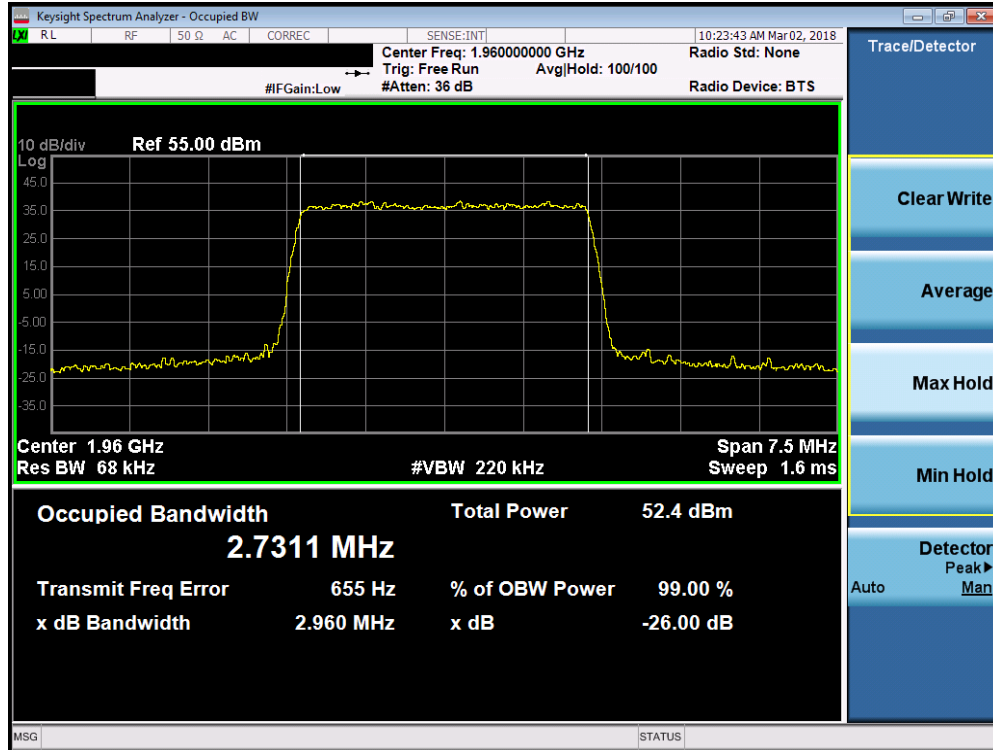


Plot 7-173. Occupied Bandwidth Plot (Band 2 - 3.0MHz QPSK)

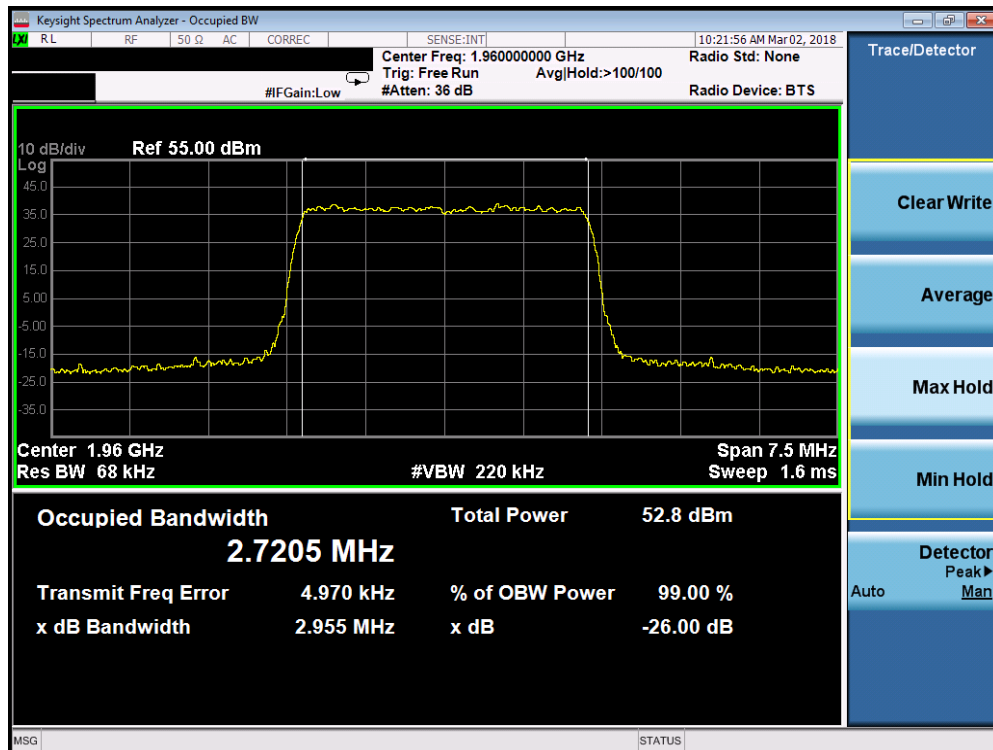


Plot 7-174. Occupied Bandwidth Plot (Band 2 - 3.0MHz 16-QAM)

| | | | | |
|--|-----------------------------|--------------------------------|--|---------------------------------|
| FCC ID: QLJ4GRFN-002 | | | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 105 of 264 |

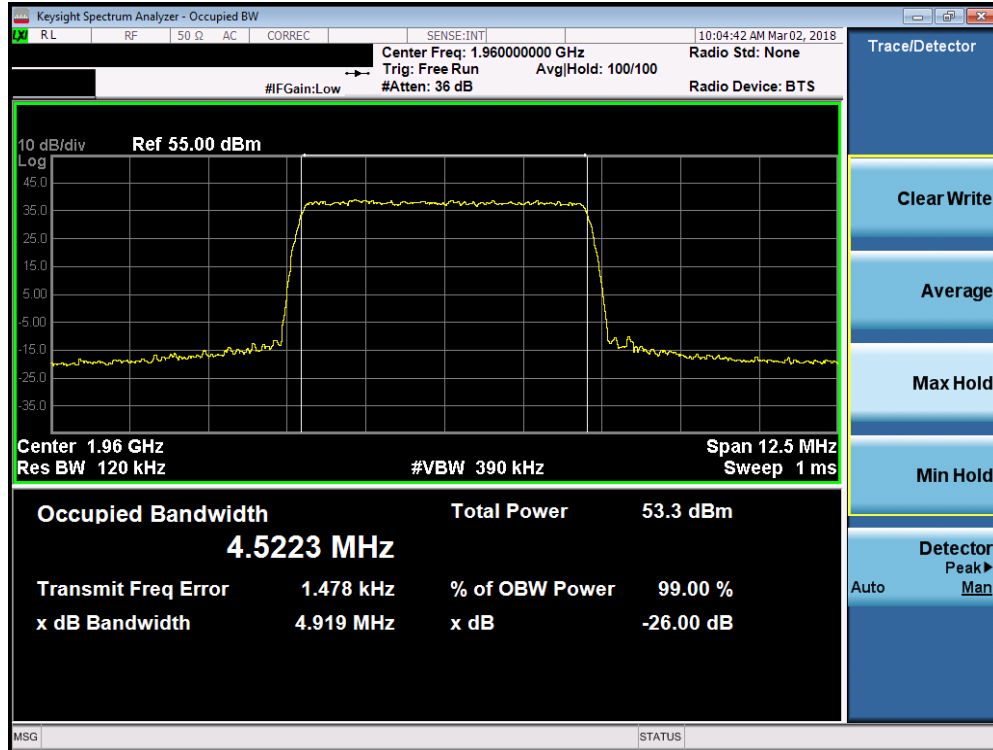


Plot 7-175. Occupied Bandwidth Plot (Band 2 - 3.0MHz 64-QAM)

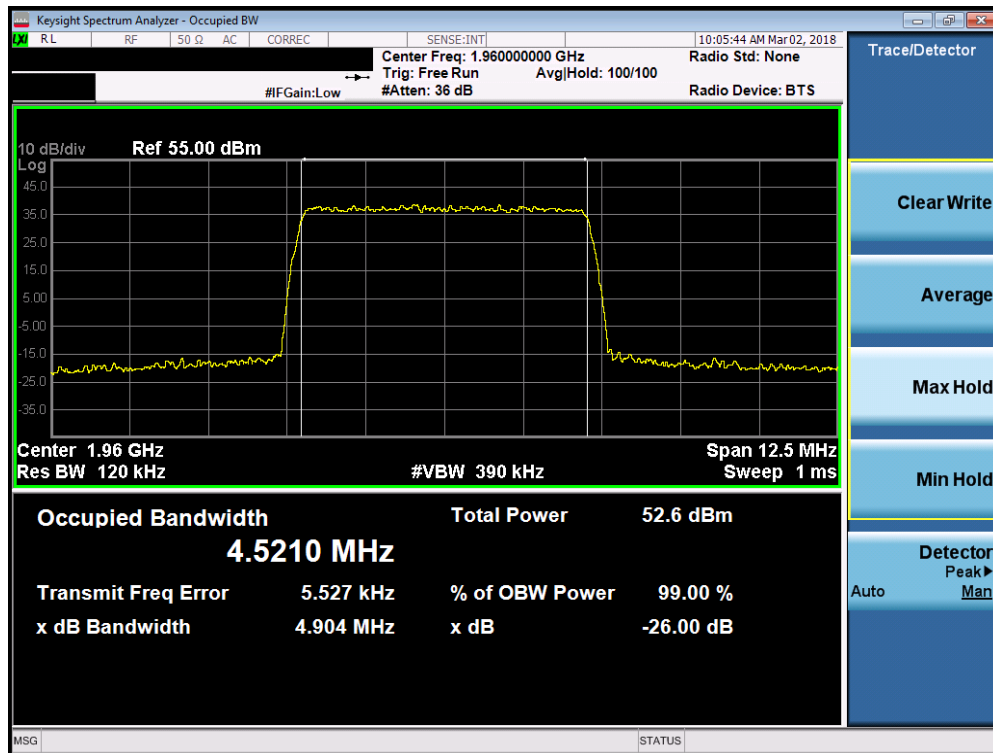


Plot 7-176. Occupied Bandwidth Plot (Band 2 - 3.0MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 106 of 264 |

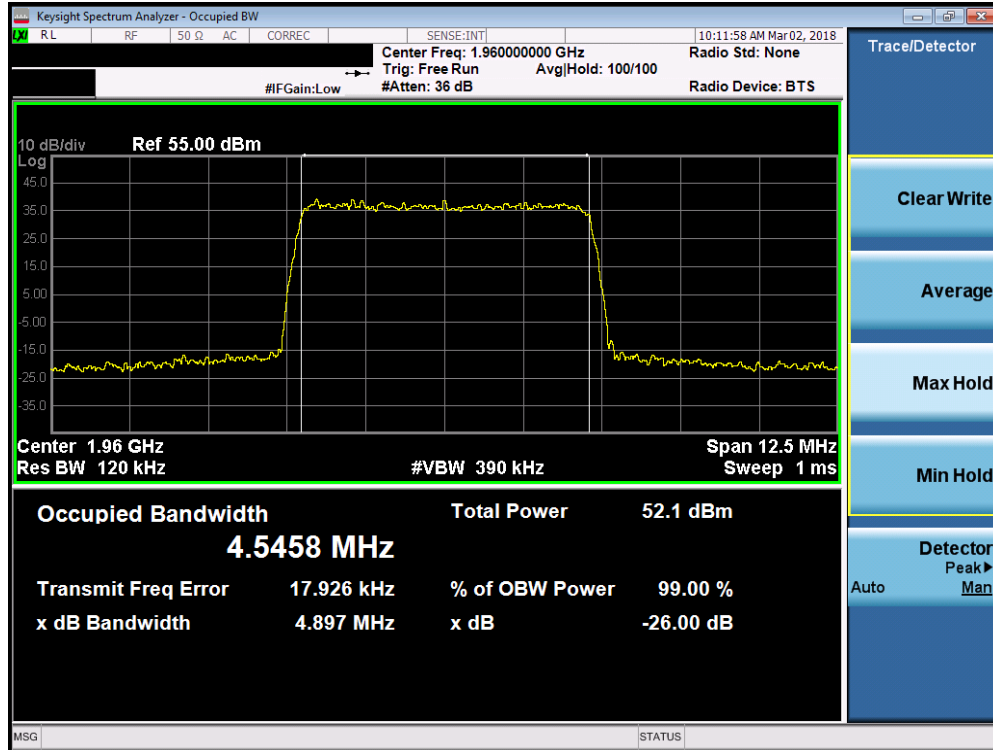


Plot 7-177. Occupied Bandwidth Plot (Band 2 - 5.0MHz QPSK)

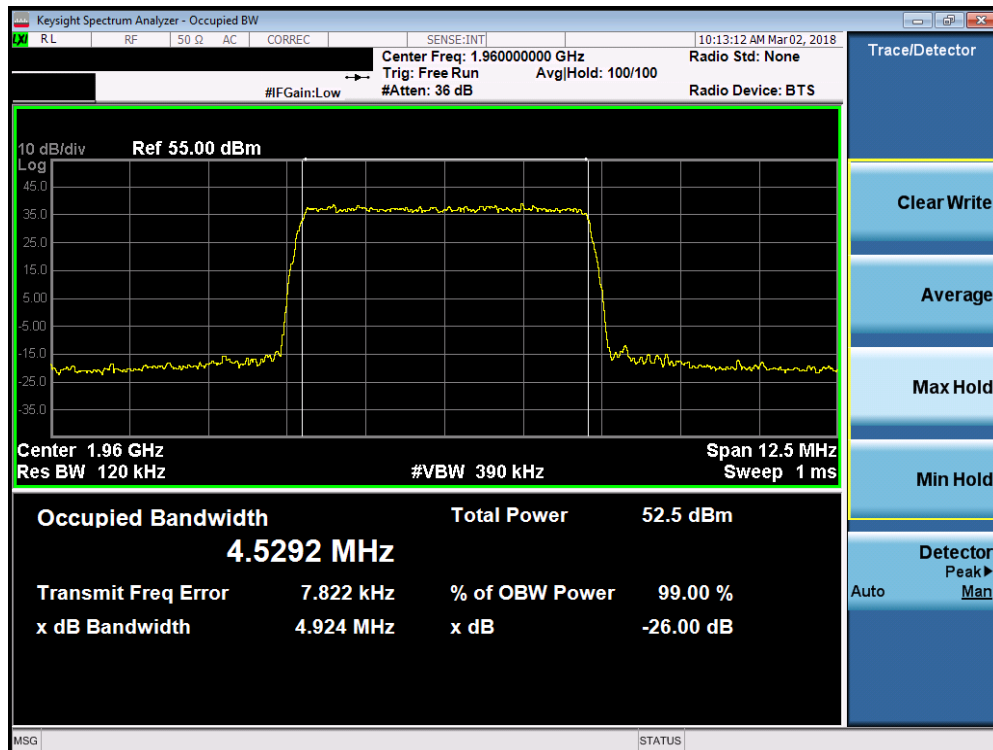


Plot 7-178. Occupied Bandwidth Plot (Band 2 - 5.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 107 of 264 |

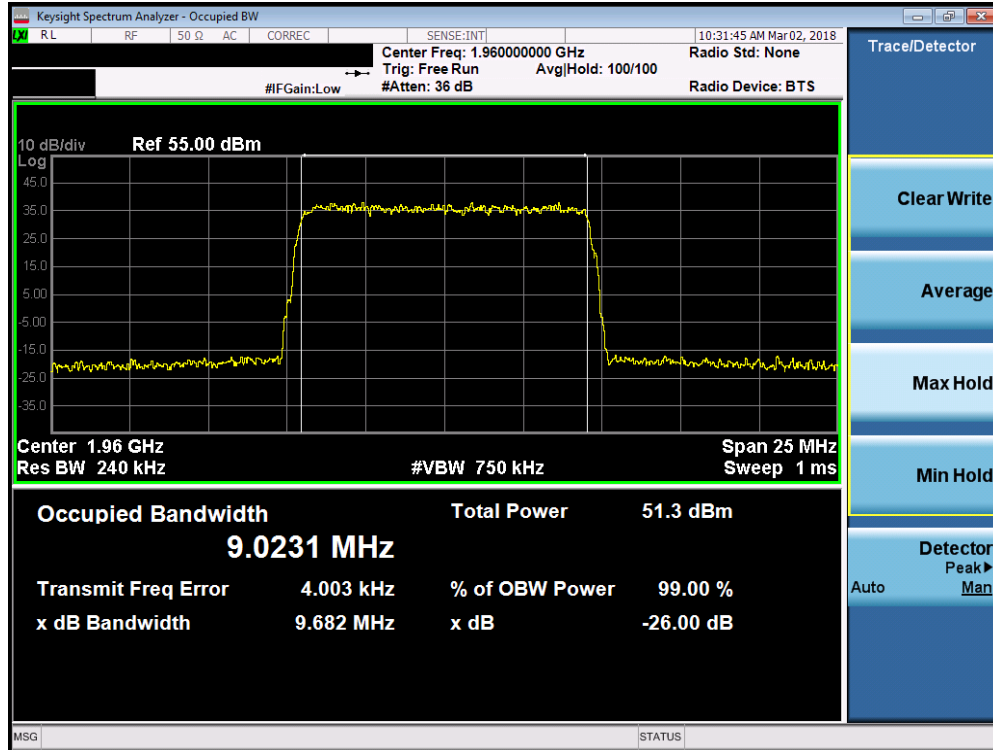


Plot 7-179. Occupied Bandwidth Plot (Band 2 - 5.0MHz 64-QAM)

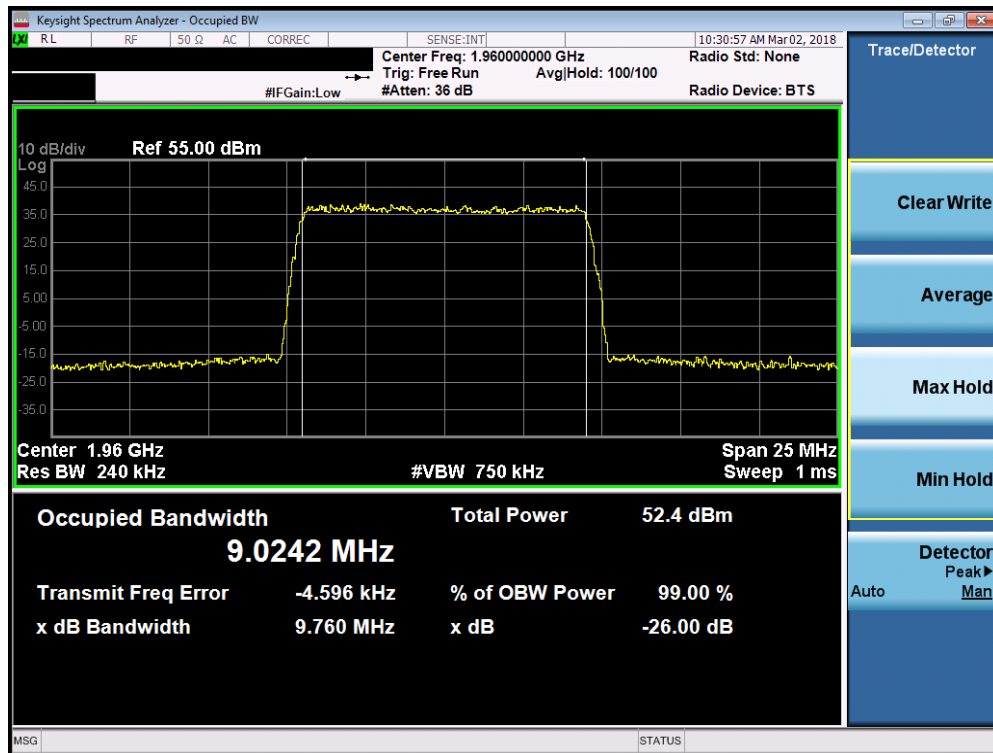


Plot 7-180. Occupied Bandwidth Plot (Band 2 - 5.0MHz 256-QAM)

| | | | |
|--|--|--------------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | Page 108 of 264 |

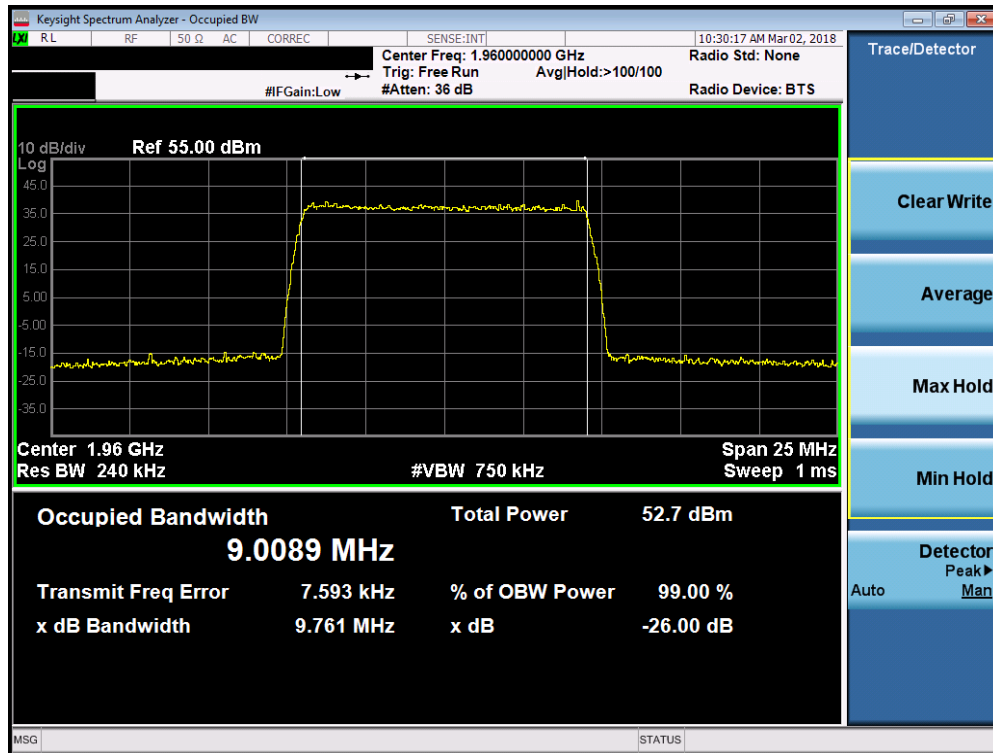


Plot 7-181. Occupied Bandwidth Plot (Band 2 - 10.0MHz QPSK)

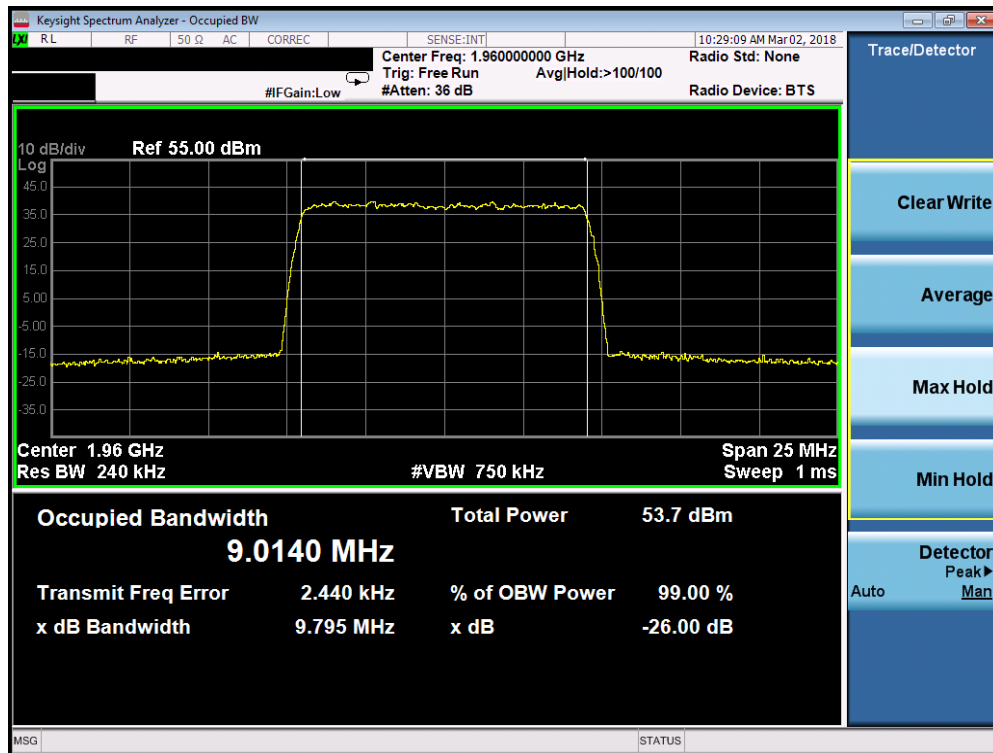


Plot 7-182. Occupied Bandwidth Plot (Band 2 - 10.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 109 of 264 |

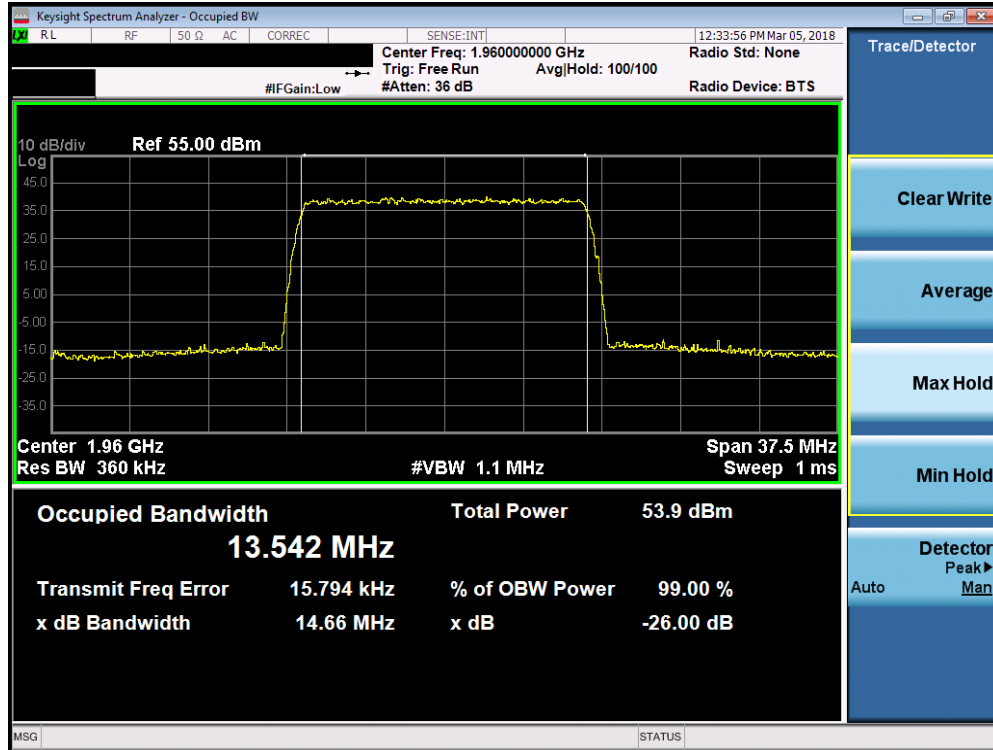


Plot 7-183. Occupied Bandwidth Plot (Band 2 - 10.0MHz 64-QAM)

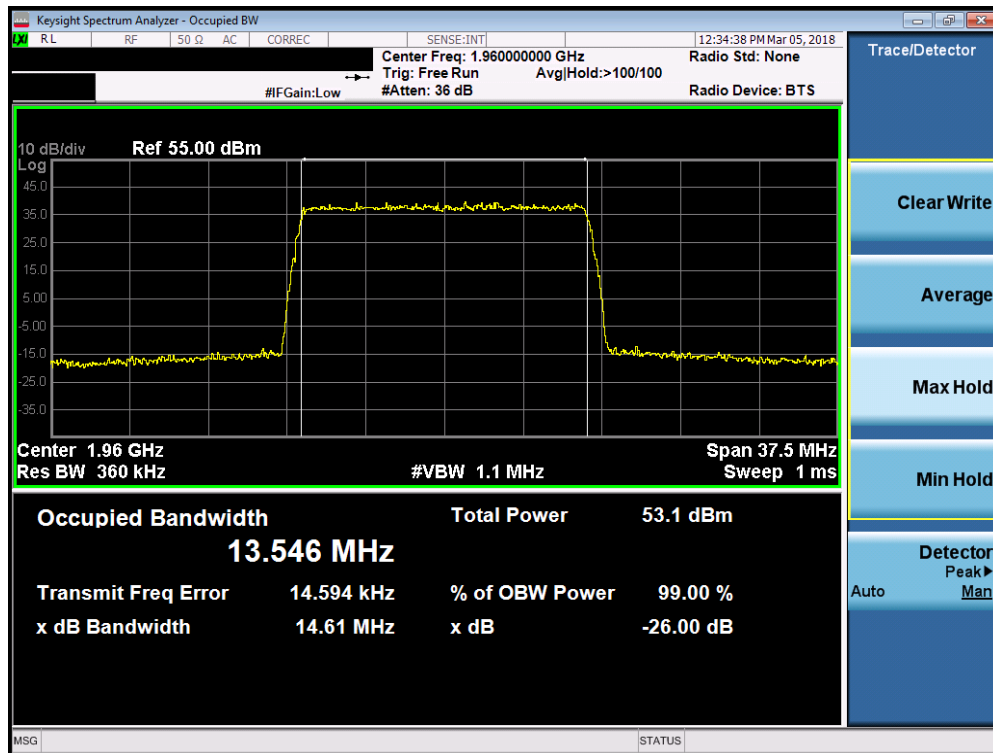


Plot 7-184. Occupied Bandwidth Plot (Band 2 - 10.0MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 110 of 264 |

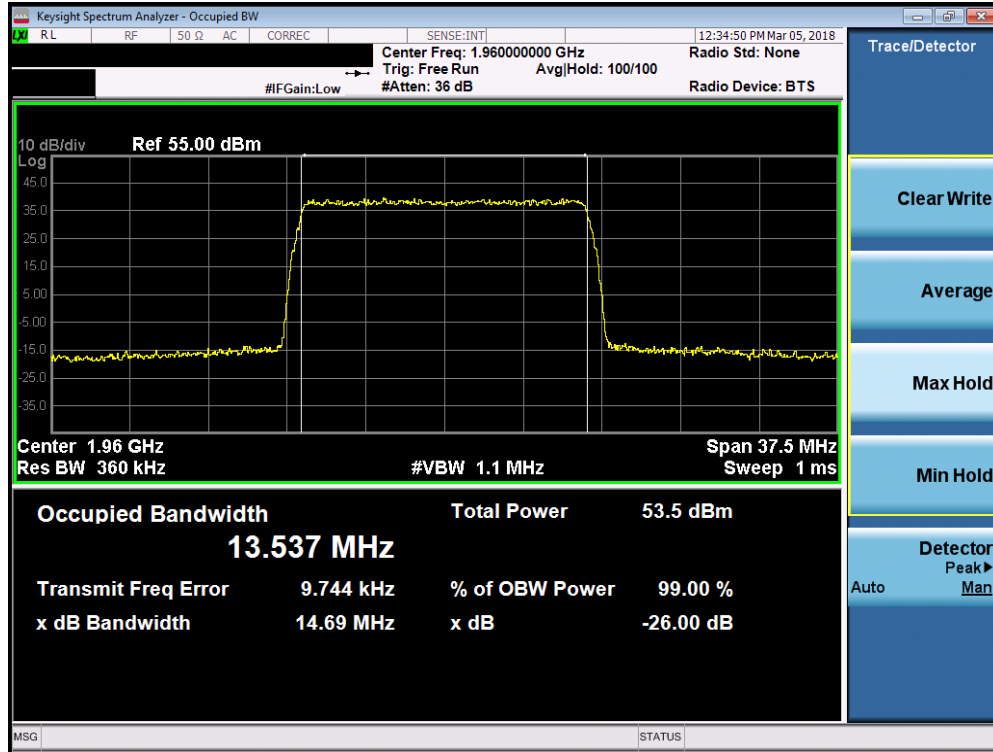


Plot 7-185. Occupied Bandwidth Plot (Band 2 - 15.0MHz QPSK)

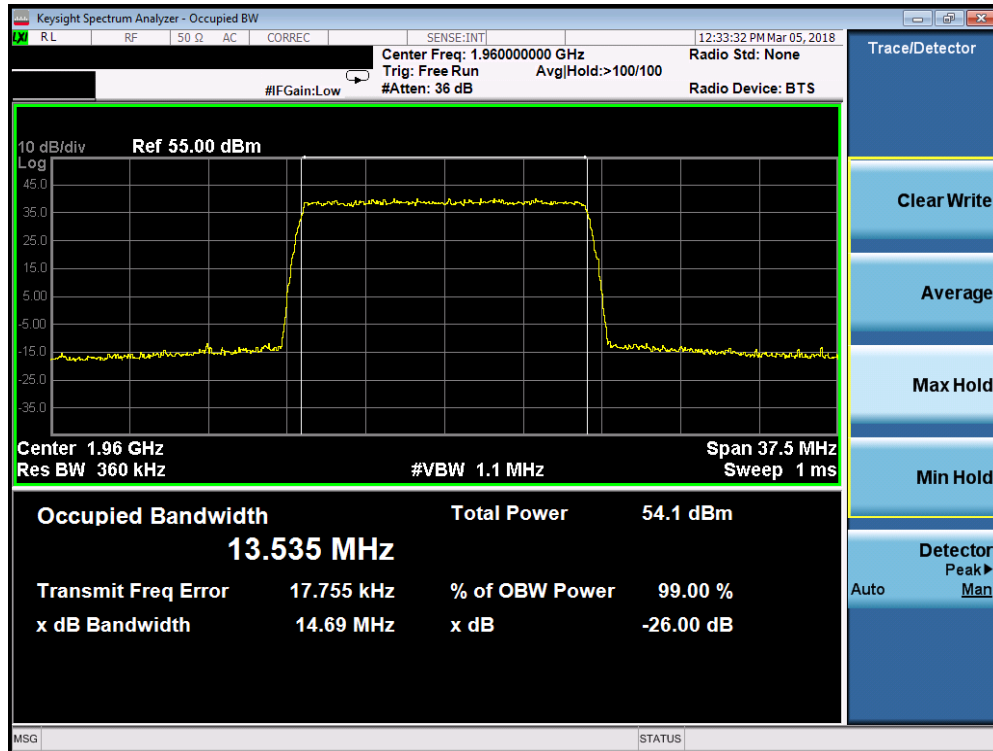


Plot 7-186. Occupied Bandwidth Plot (Band 2 - 15.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 111 of 264 |

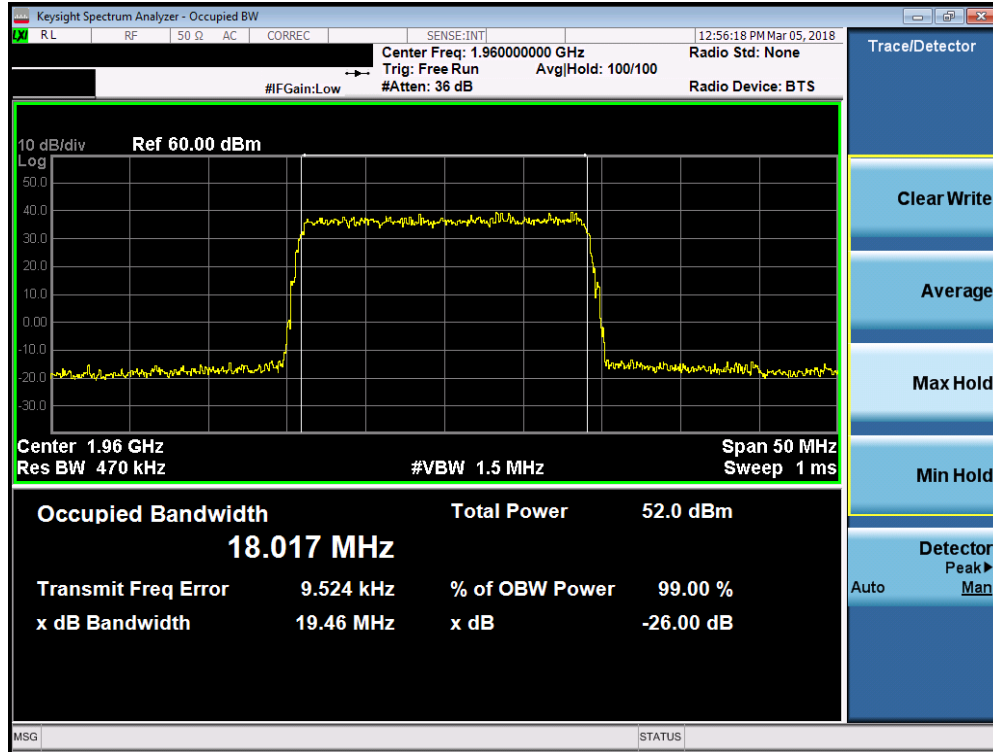


Plot 7-187. Occupied Bandwidth Plot (Band 2 - 15.0MHz 64-QAM)

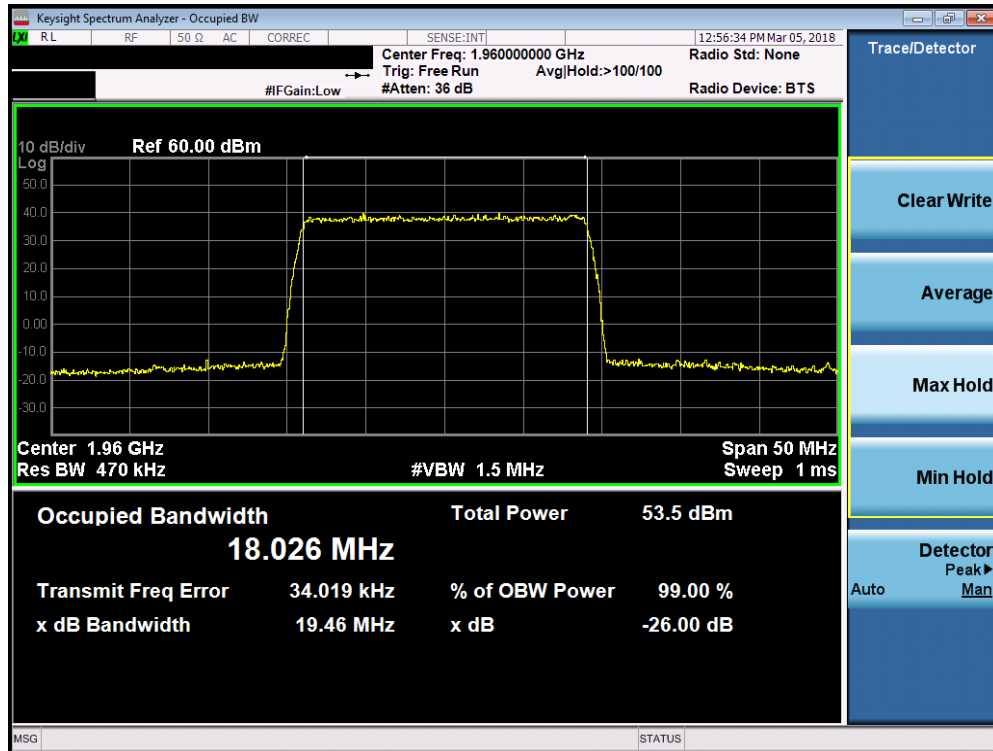


Plot 7-188. Occupied Bandwidth Plot (Band 2 - 15.0MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 112 of 264 |

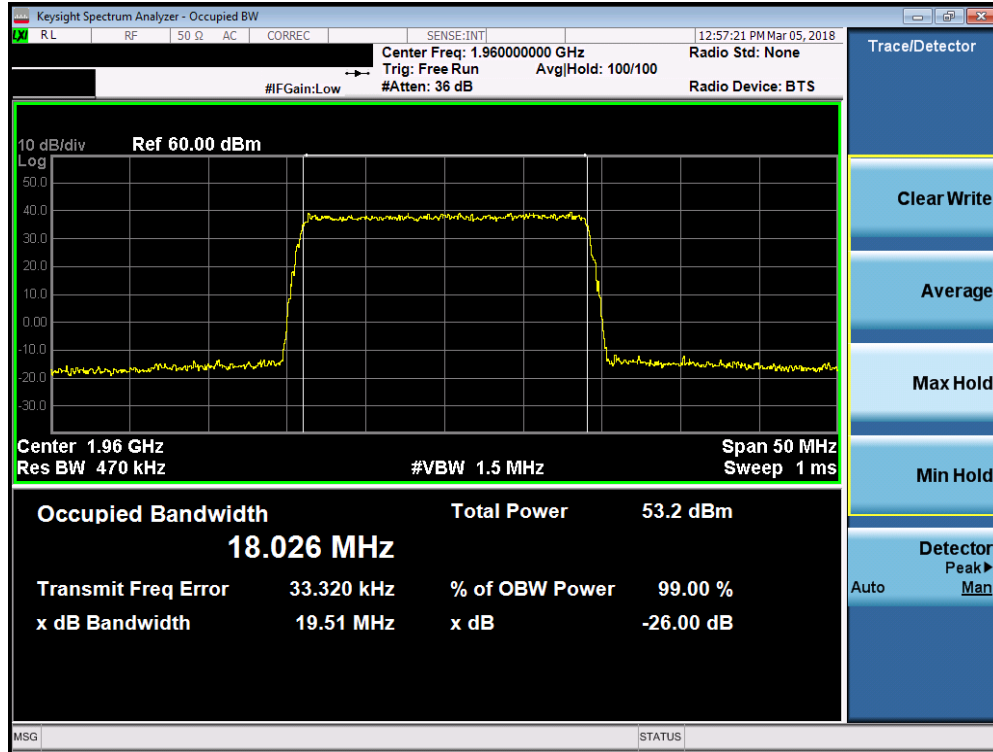


Plot 7-189. Occupied Bandwidth Plot (Band 20 - 10.0MHz QPSK)

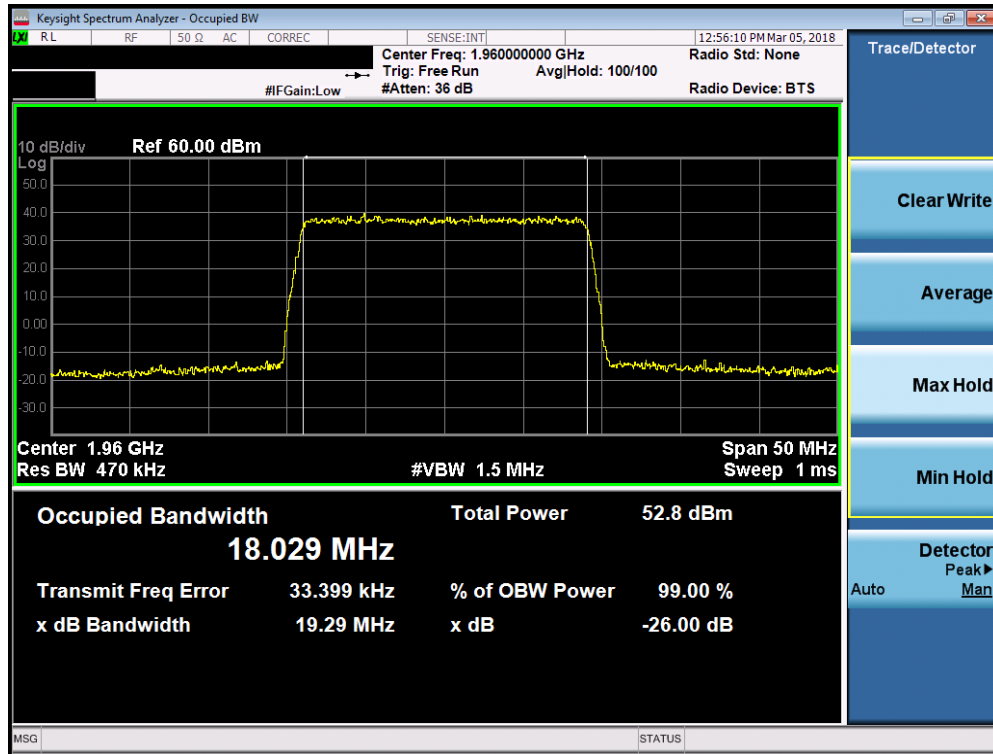


Plot 7-190. Occupied Bandwidth Plot (Band 20 - 10.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
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Plot 7-191. Occupied Bandwidth Plot (Band 20 - 10.0MHz 64-QAM)



Plot 7-192. Occupied Bandwidth Plot (Band 20 - 10.0MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 114 of 264 |

7.4 Out-of-Band Emissions in the Spurious Domain

§2.1051, §24.238(a)

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03 – Section 6.0

ANSI C63.26-2015 Section 6.4.4.1

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

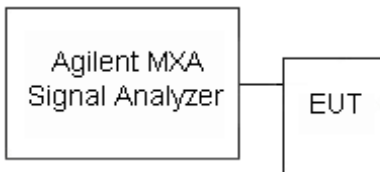


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

| | | | | |
|--|---|---------------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 115 of 264 |

The plots shown in this section address compliance of each individual antenna to the Part 24.238(a) spurious emission limits. Per ANSI C63.26-2015 Section 6.4.4.1, spurious emission compliance for MIMO operation is addressed by the "Measure and add $[10 \log N]$ dB" technique where $N = 2$ and the resulting spurious emission level addition is 3dB.

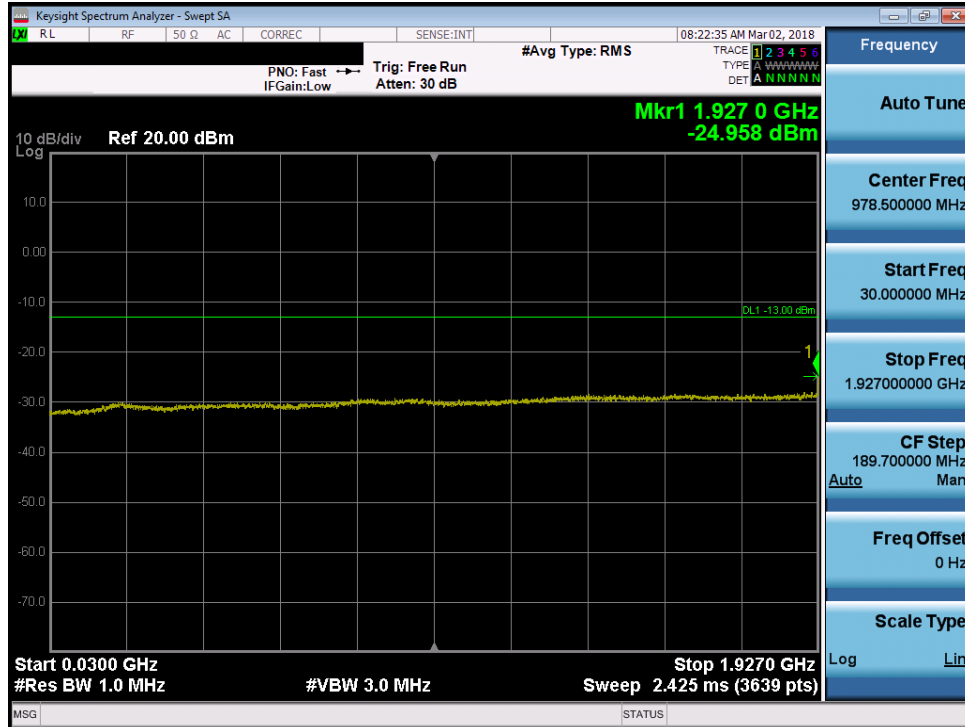
| | | | | |
|---|---|---|---|--|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 116 of 264 |

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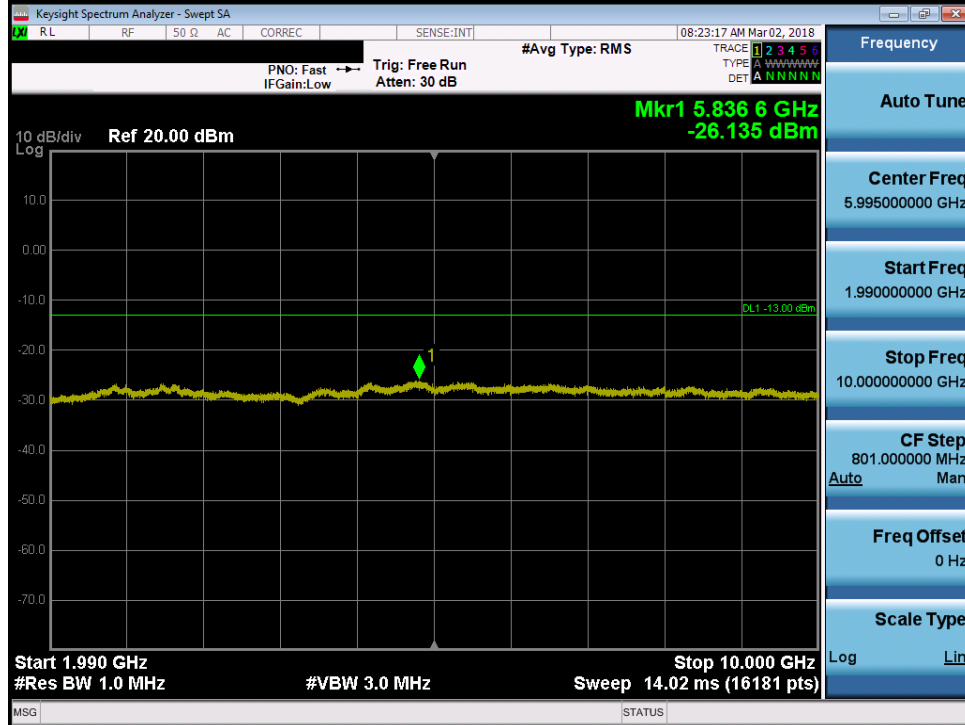
V 7.4 1/16/2018

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Band 2 – Antenna 1

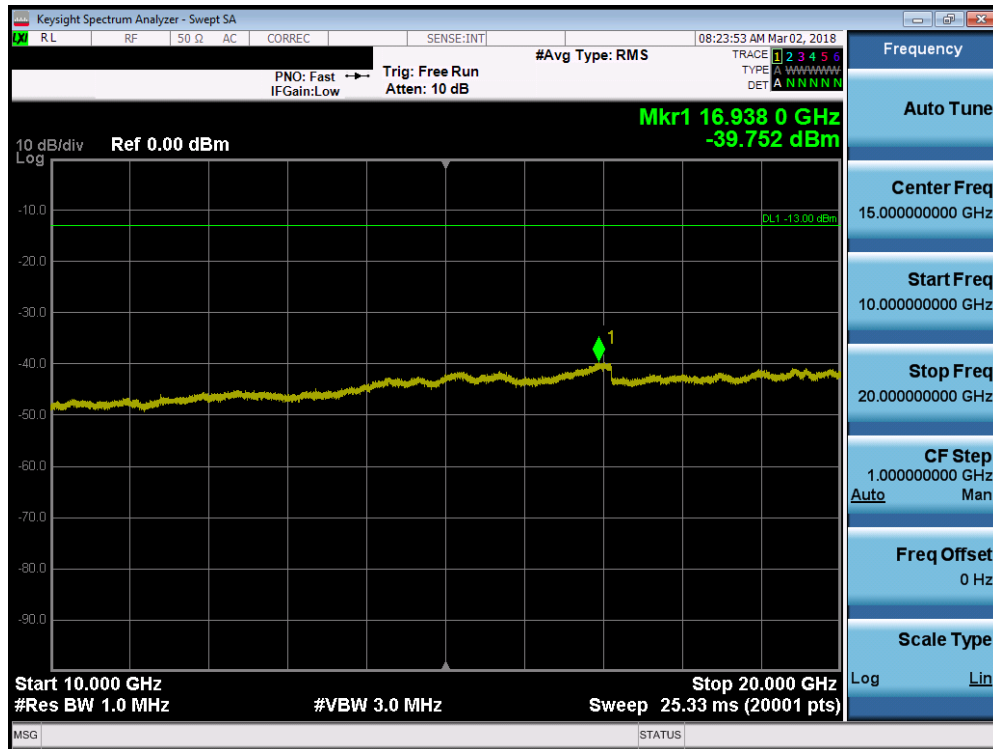


Plot 7-193. Conducted Spurious Plot (Band 2 – 1.4MHz QPSK – Low Channel)

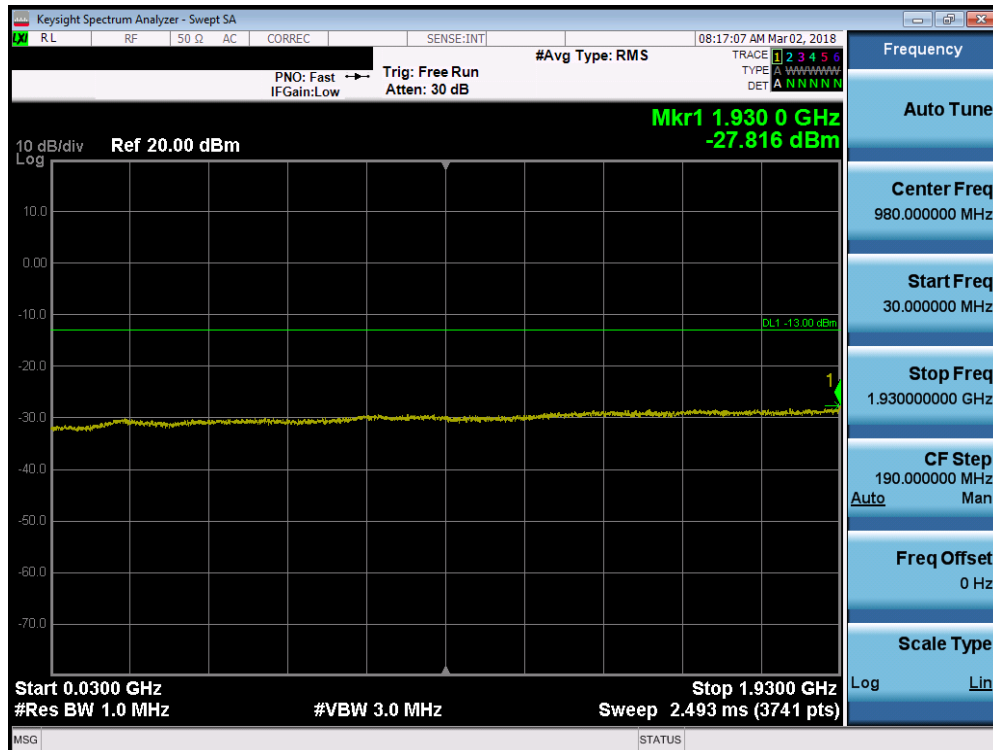


Plot 7-194. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Low Channel)

| | | | | |
|--|--|--------------------------------|--|---------------------------------|
| FCC ID: QLJ4GRFN-002 | MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 117 of 264 |

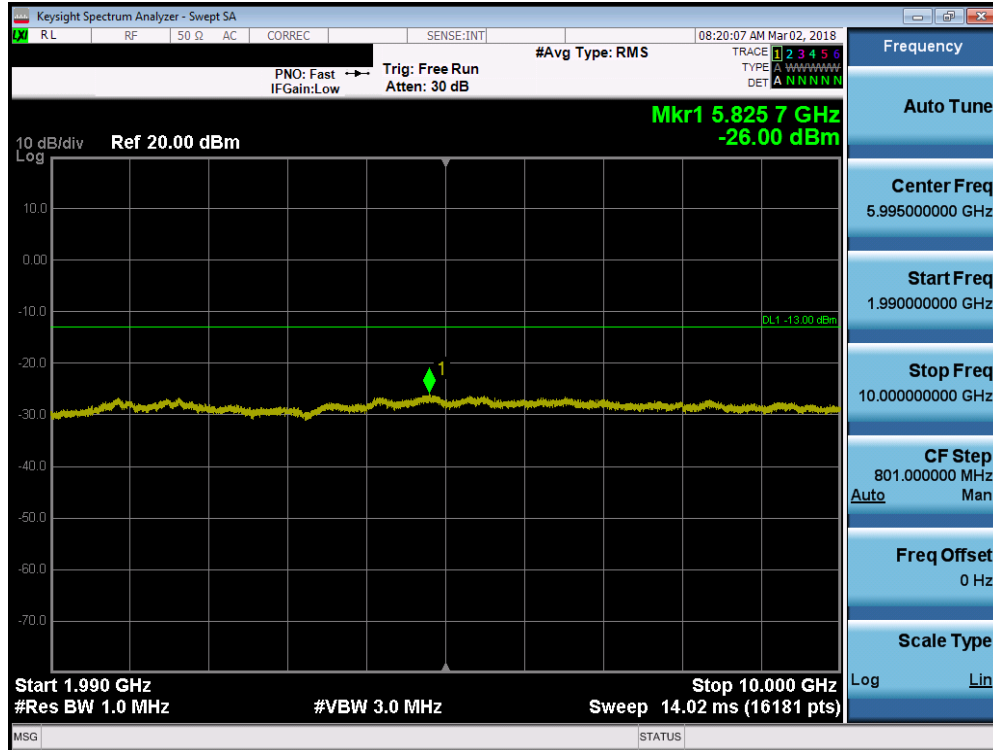


Plot 7-195. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Low Channel)

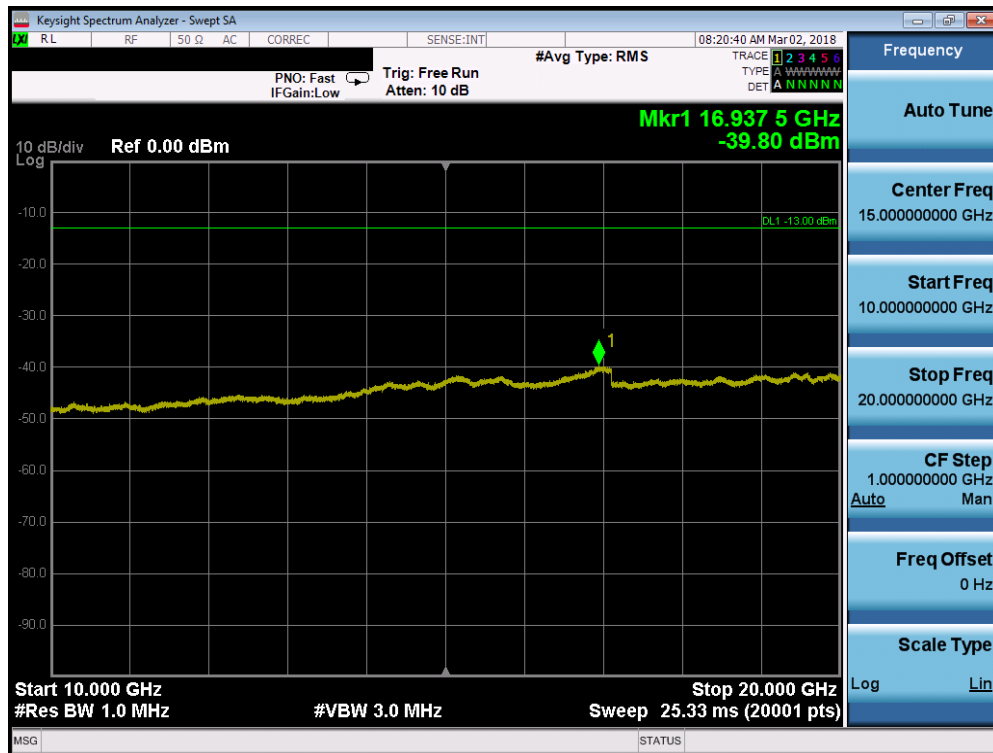


Plot 7-196. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Mid Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 118 of 264 |

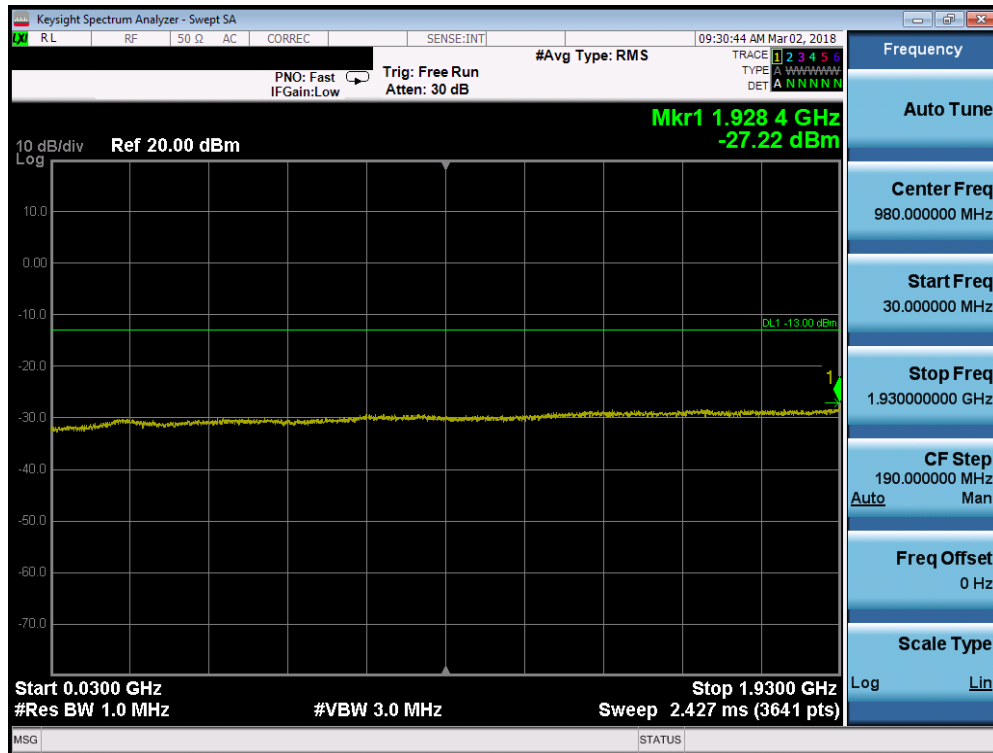


Plot 7-197. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Mid Channel)

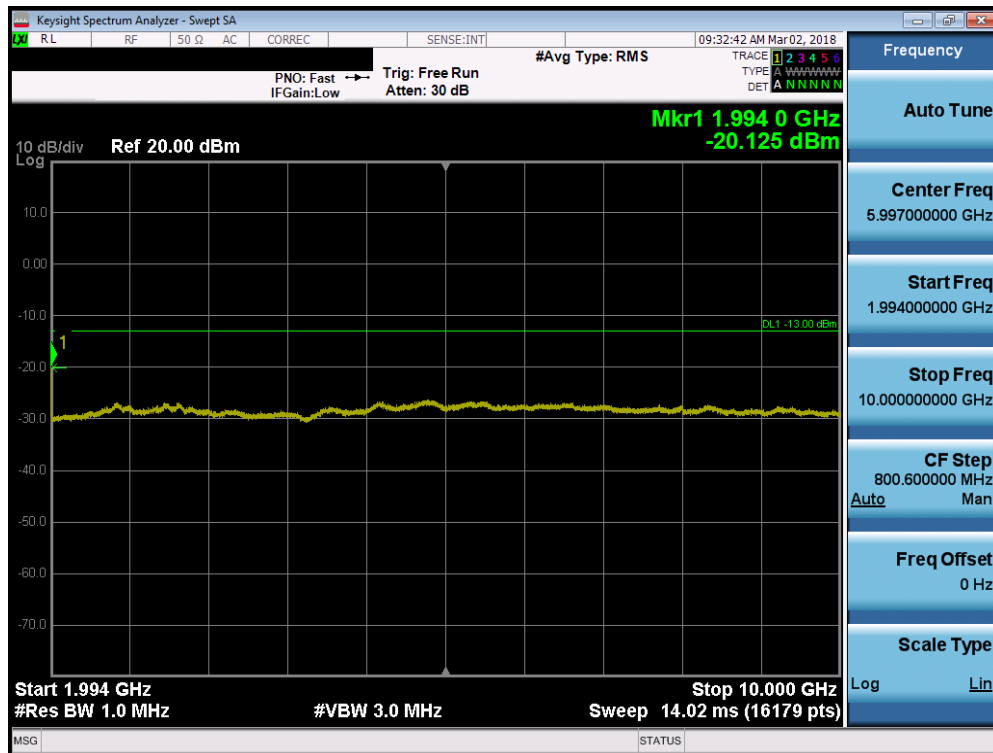


Plot 7-198. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Mid Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 119 of 264 |

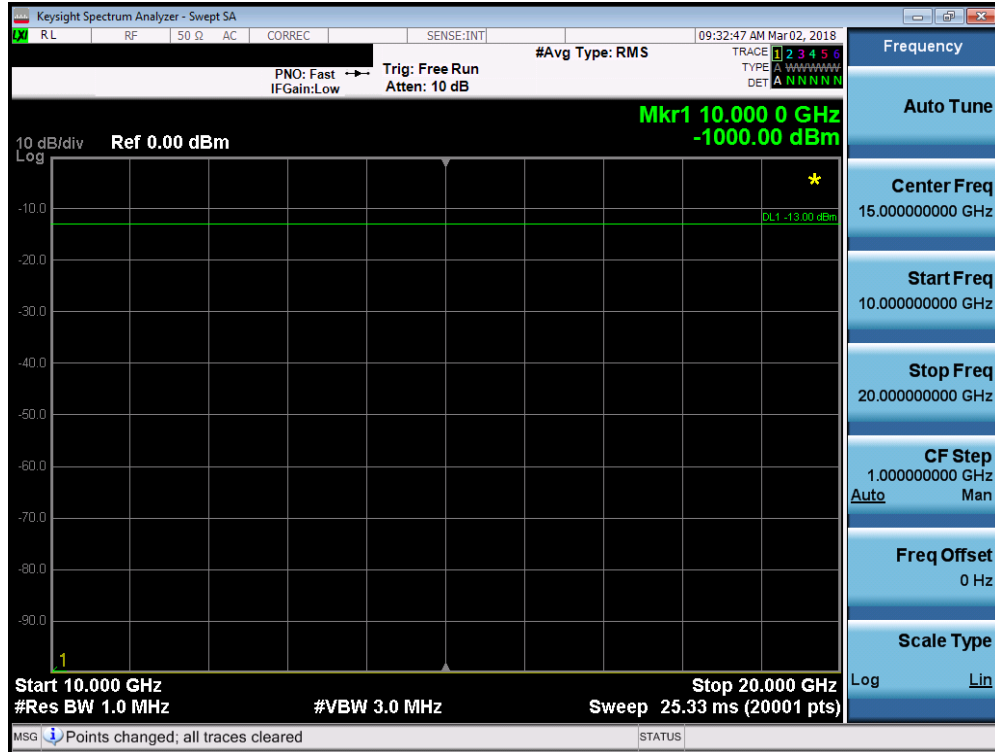


Plot 7-199. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – High Channel)



Plot 7-200. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – High Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 120 of 264 |



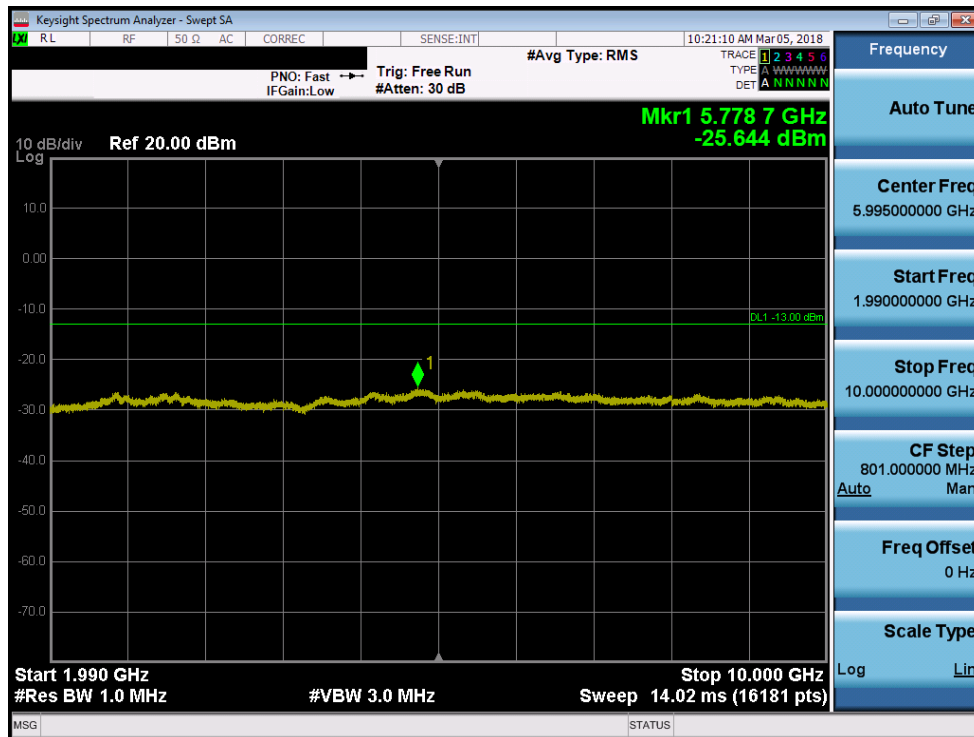
Plot 7-201. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – High Channel)

| | | | | |
|--|---|---------------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 121 of 264 |

Band 2 – Antenna 2

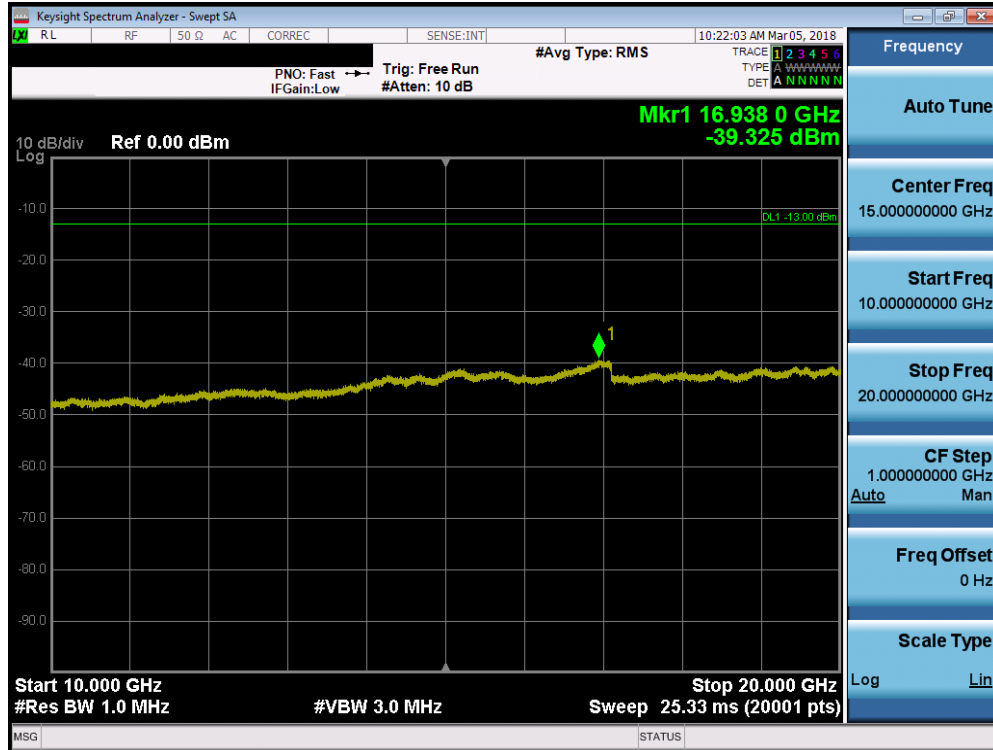


Plot 7-202. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Low Channel)



Plot 7-203. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Low Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
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| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 122 of 264 |

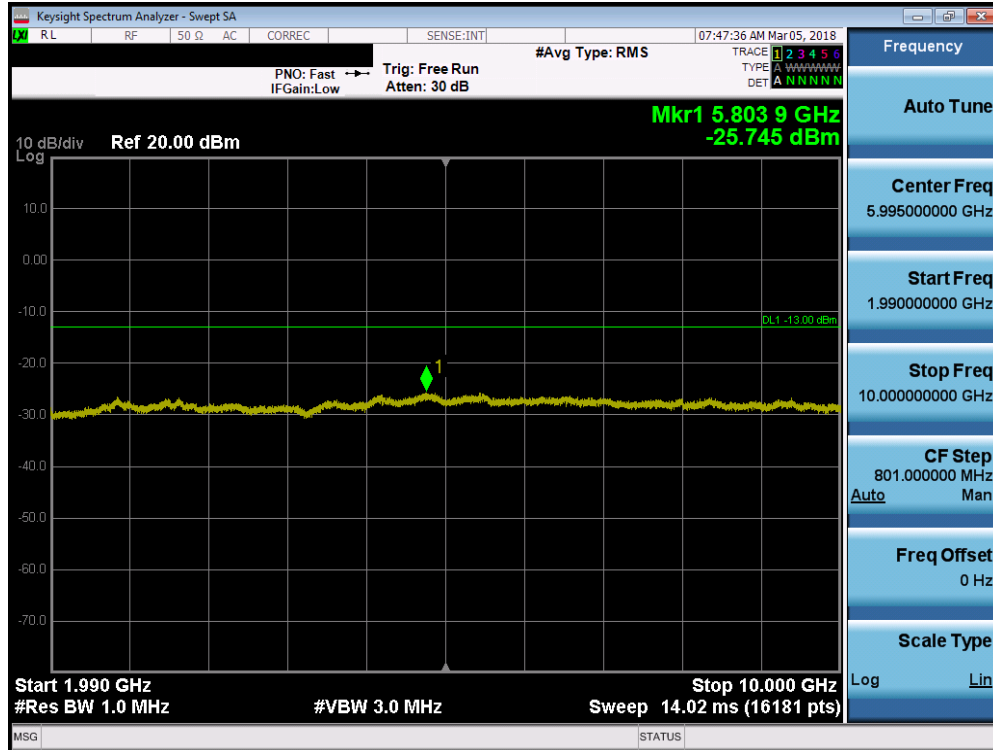


Plot 7-204. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Low Channel)

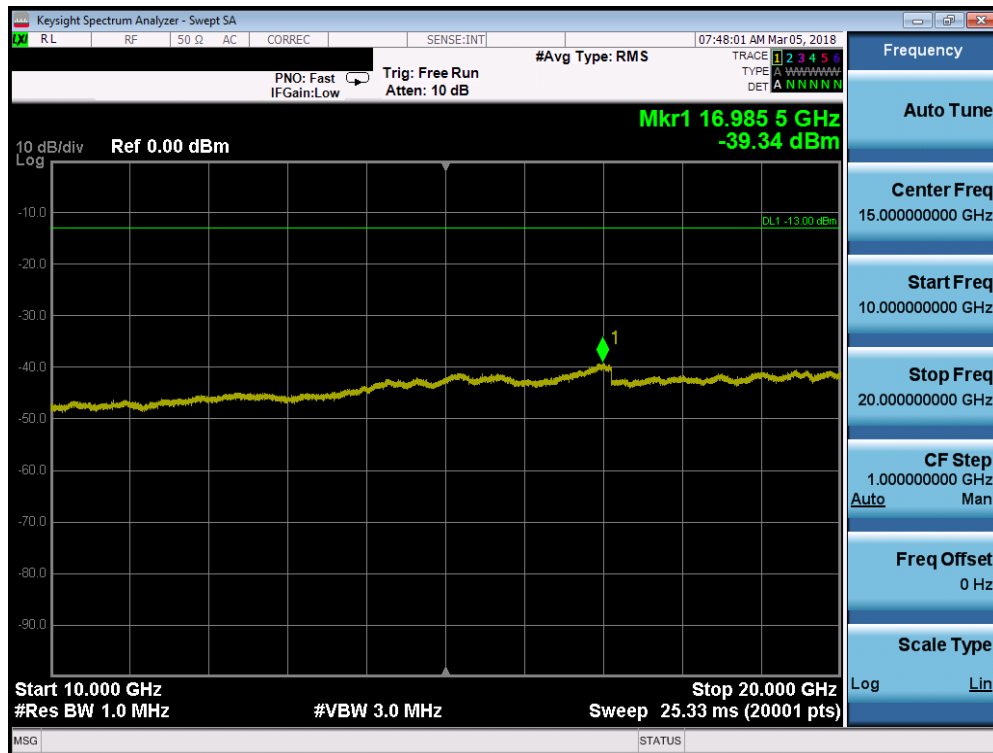


Plot 7-205. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Mid Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 123 of 264 |



Plot 7-206. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Mid Channel)

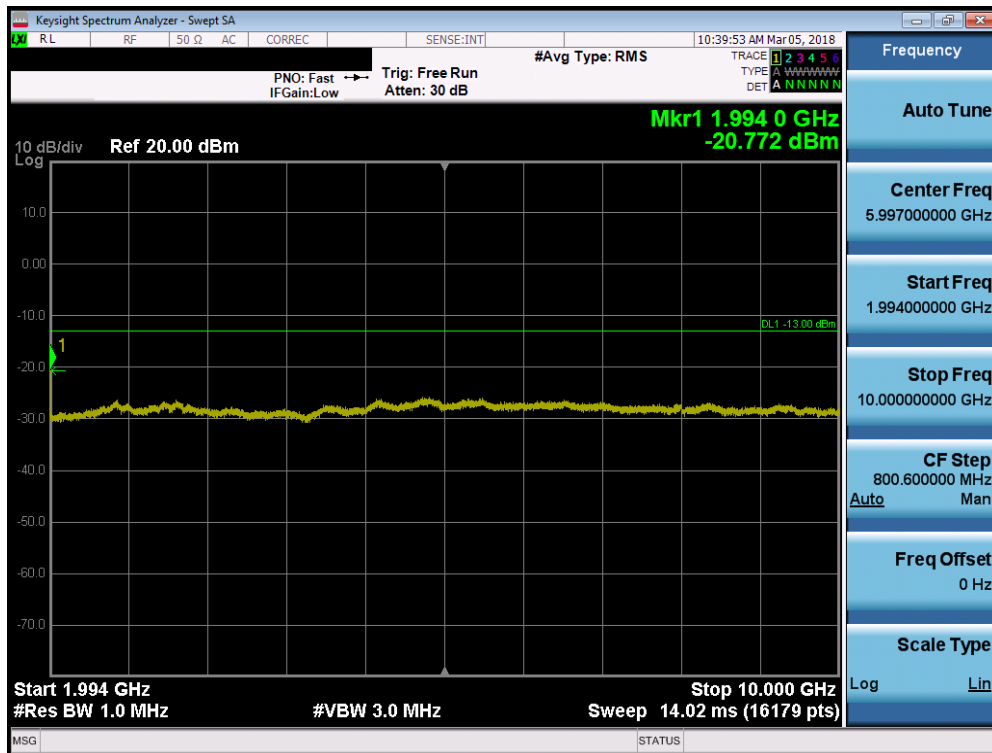


Plot 7-207. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – Mid Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 124 of 264 |

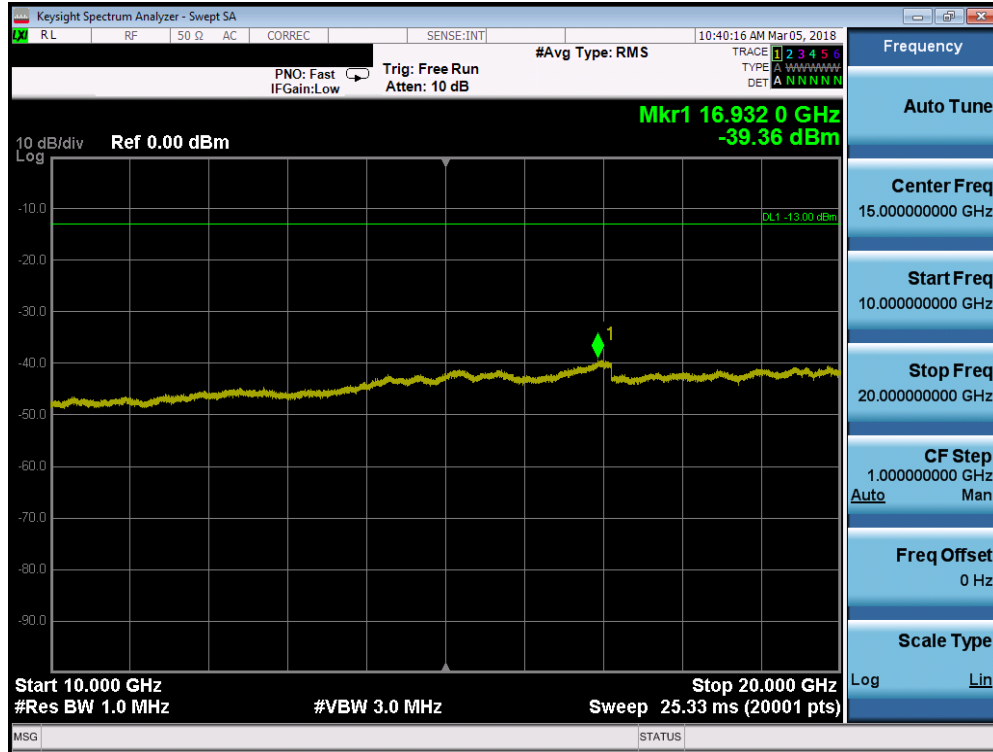


Plot 7-208. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – High Channel)



Plot 7-209. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – High Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 125 of 264 |



Plot 7-210. Conducted Spurious Plot (Band 2 - 1.4MHz QPSK – High Channel)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 126 of 264 |

7.5 Out-of-Band Emissions at the Band Edge

§2.1051, §24.238(a)

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03 – Section 6.0

ANSI C63.26-2015 Section 6.4.4.1

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

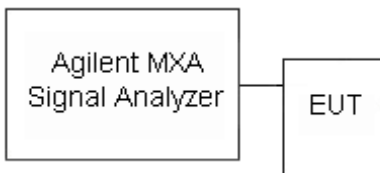


Figure 7-3. Test Instrument & Measurement Setup

| | | | | |
|--|---|---------------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
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Test Notes

Per 24.238(b) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

The plots shown in this section address compliance of each individual antenna to the Part 24.238(a) spurious emission limits at the band edge. Per ANSI C63.26-2015 Section 6.4.4.1, spurious emission compliance for MIMO operation is addressed by the "Measure and sum spectral maxima across the outputs" technique. Final MIMO measurement results are shown at the end of this section.

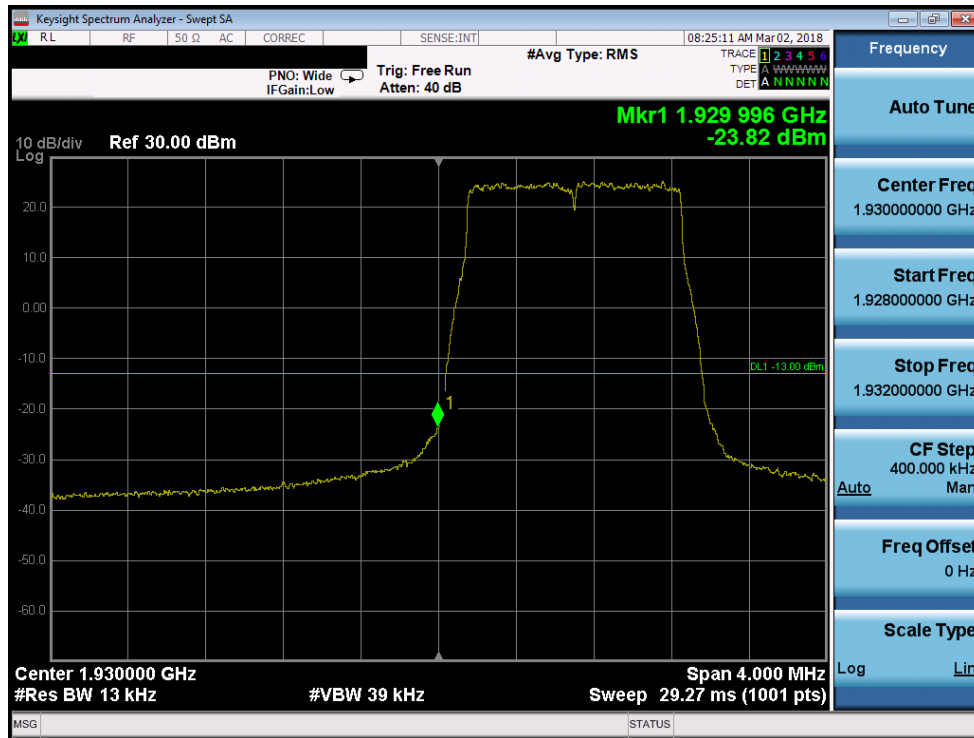
| | | | | |
|--|---|---------------------------------------|---|---------------------------------|
| FCC ID: QLJ4GRFN-002 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 128 of 264 |

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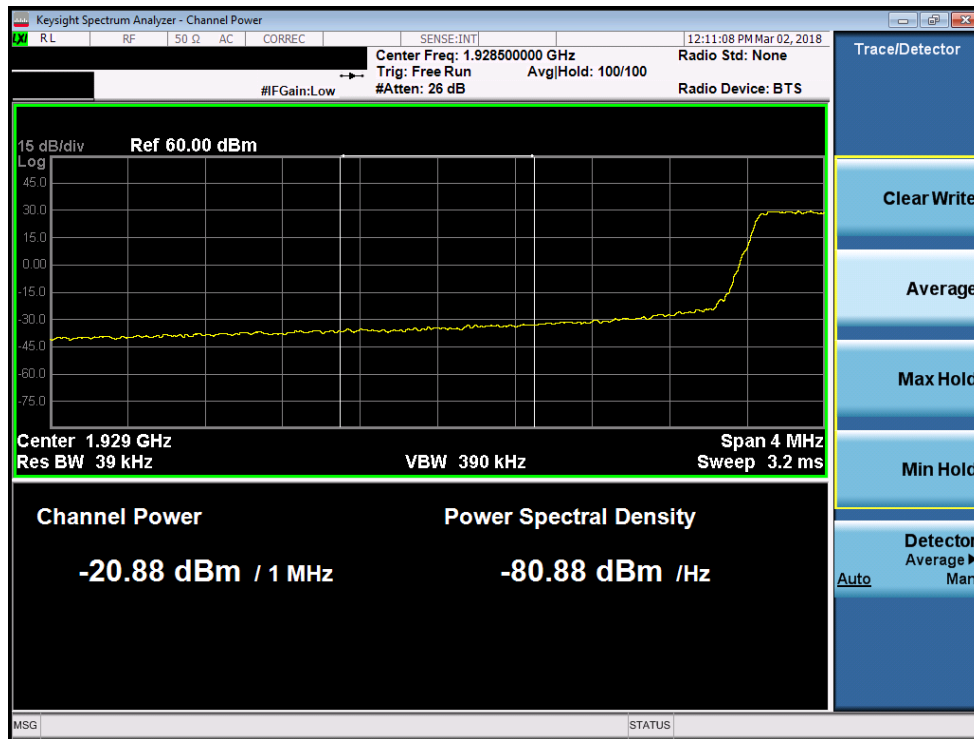
V 7.4 1/16/2018

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Band 2 – Antenna 1

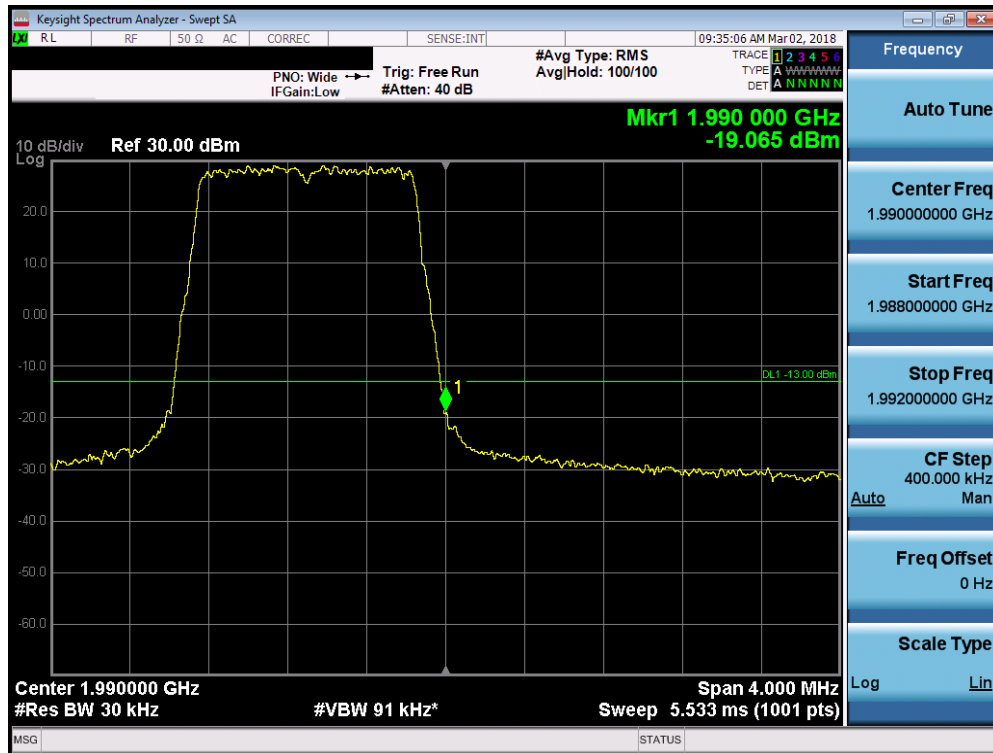


Plot 7-211. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK)

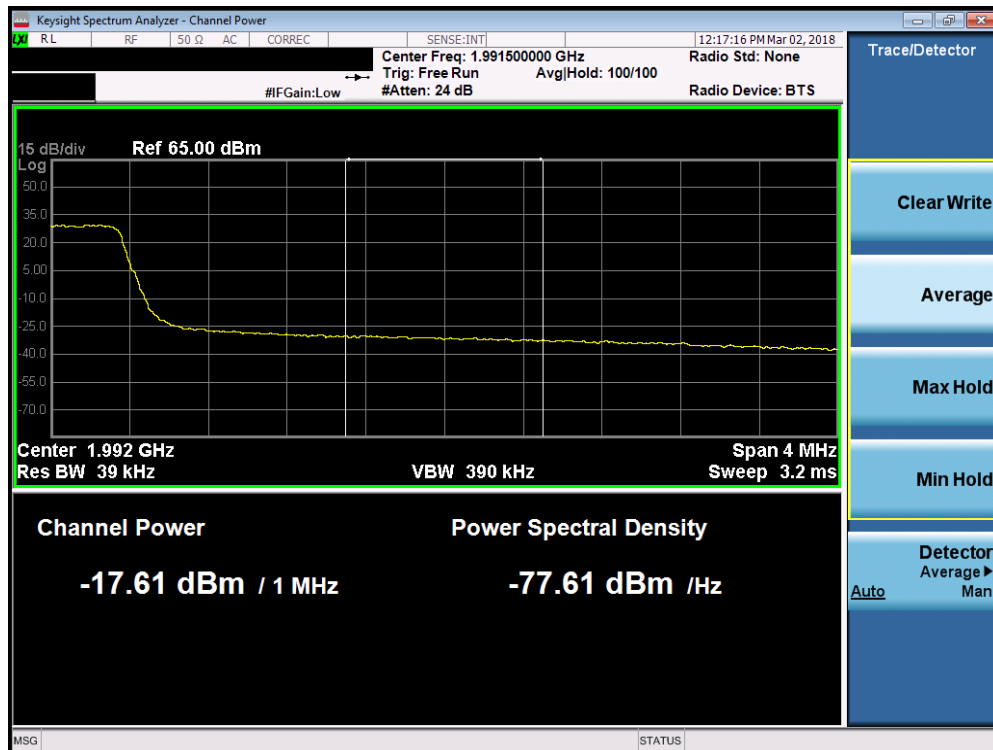


Plot 7-212. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 129 of 264 |

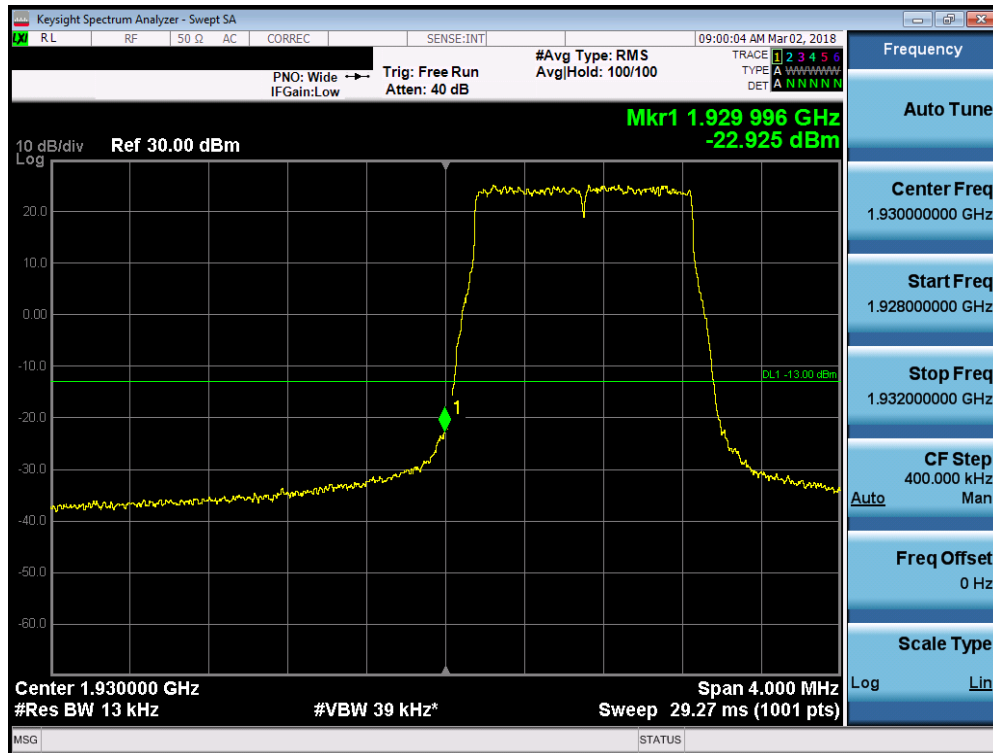


Plot 7-213. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK)

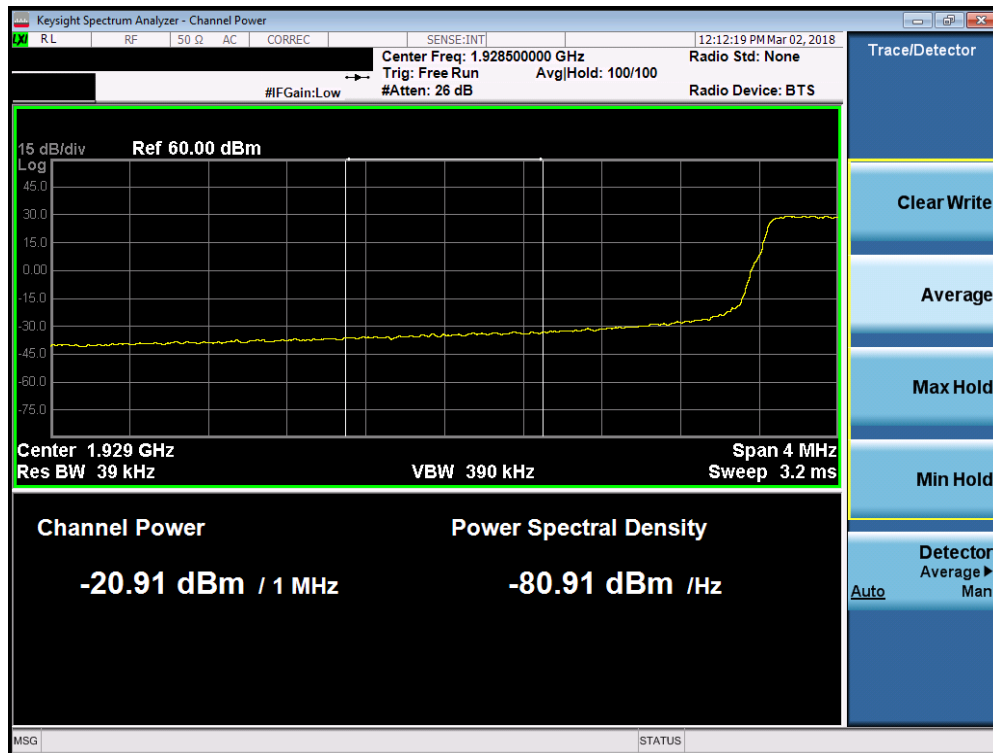


Plot 7-214. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 130 of 264 |

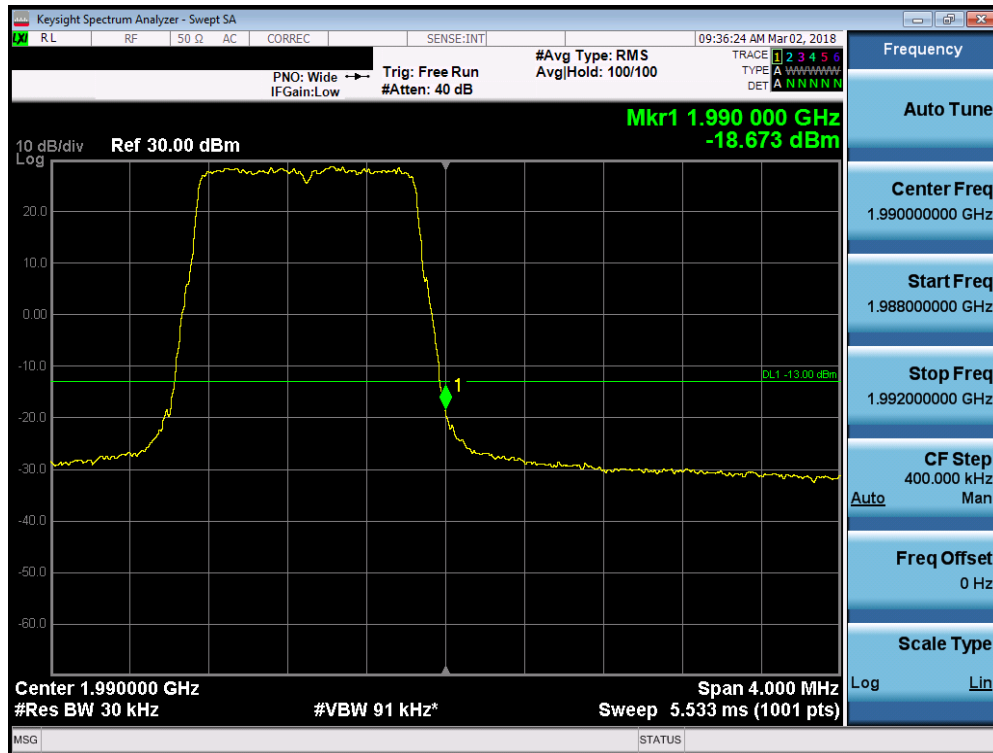


Plot 7-215. Lower Band Edge Plot (Band 2 - 1.4MHz 16-QAM)

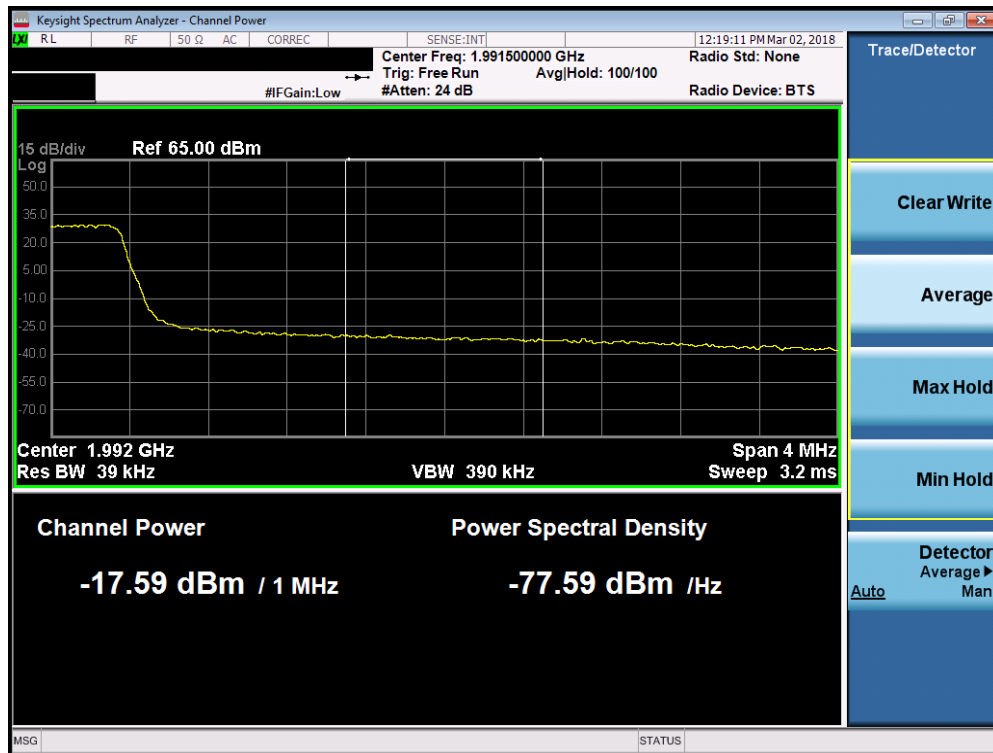


Plot 7-216. Lower Extended Band Edge Plot (Band 2 - 1.4MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 131 of 264 |

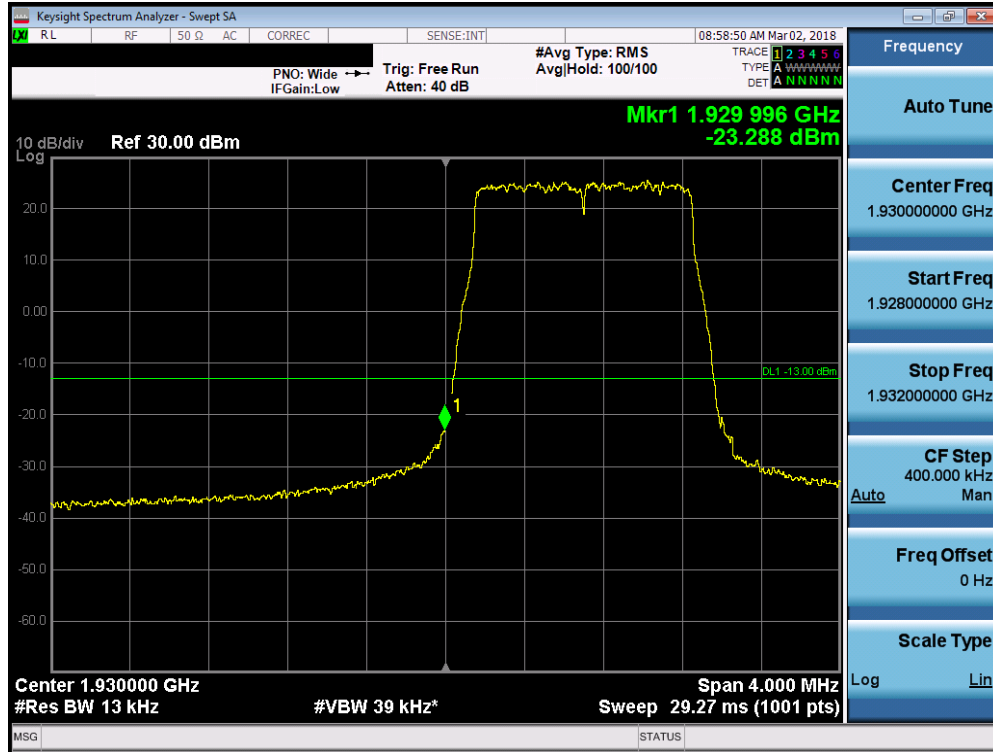


Plot 7-217. Upper Band Edge Plot (Band 2 - 1.4MHz 16-QAM)

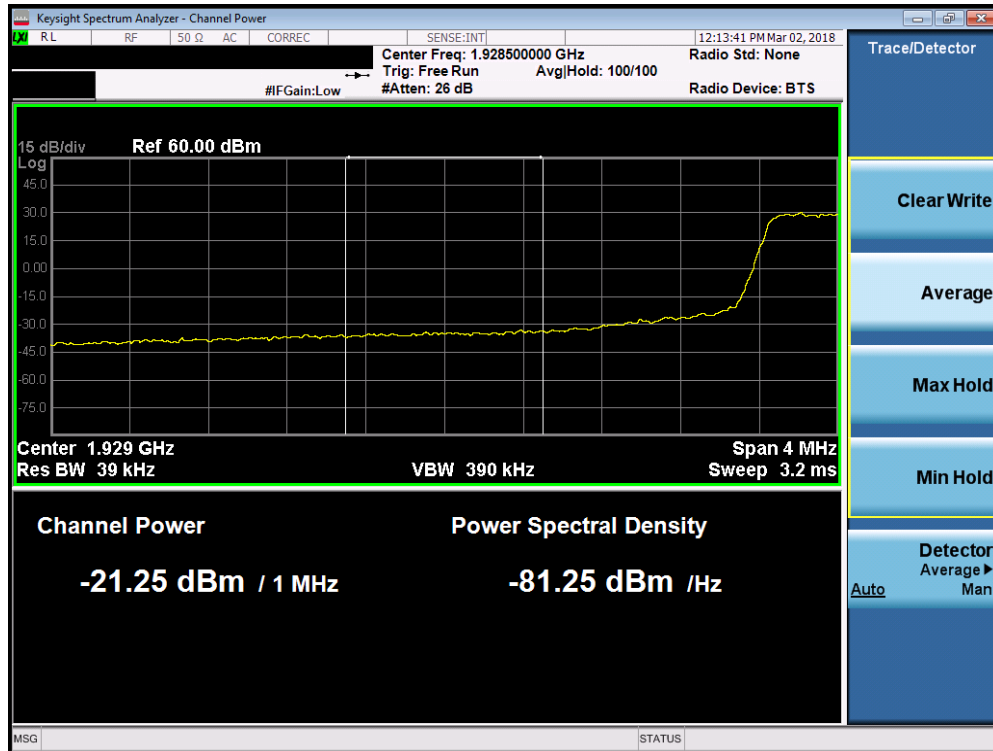


Plot 7-218. Upper Extended Band Edge Plot (Band 2 - 1.4MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 132 of 264 |

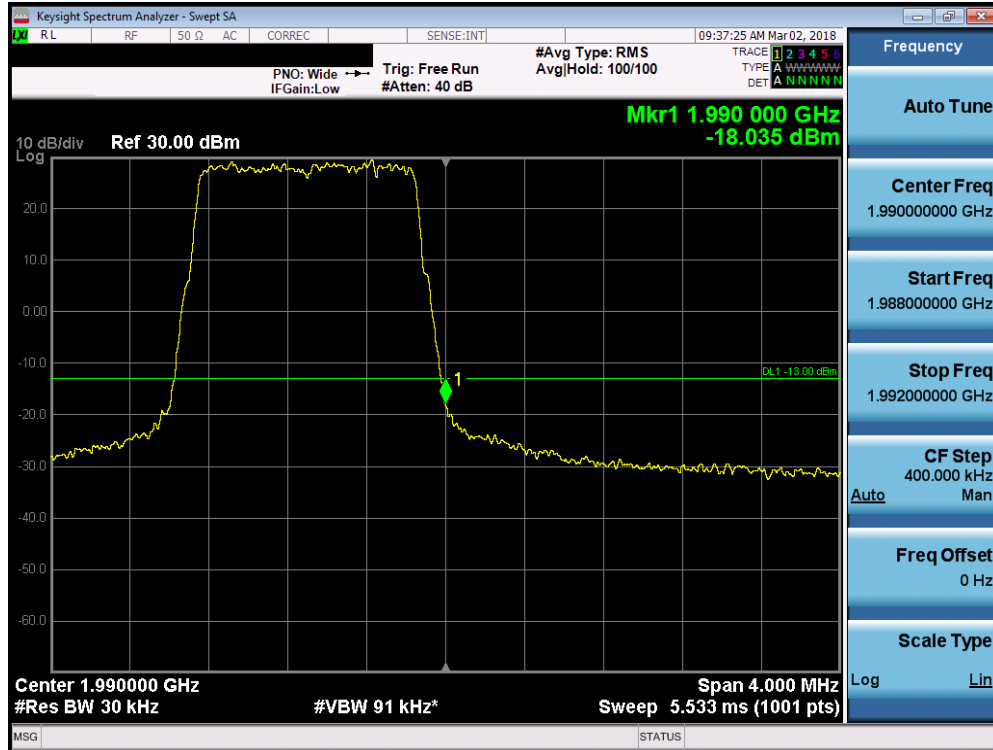


Plot 7-219. Lower Band Edge Plot (Band 2 - 1.4MHz 64-QAM)

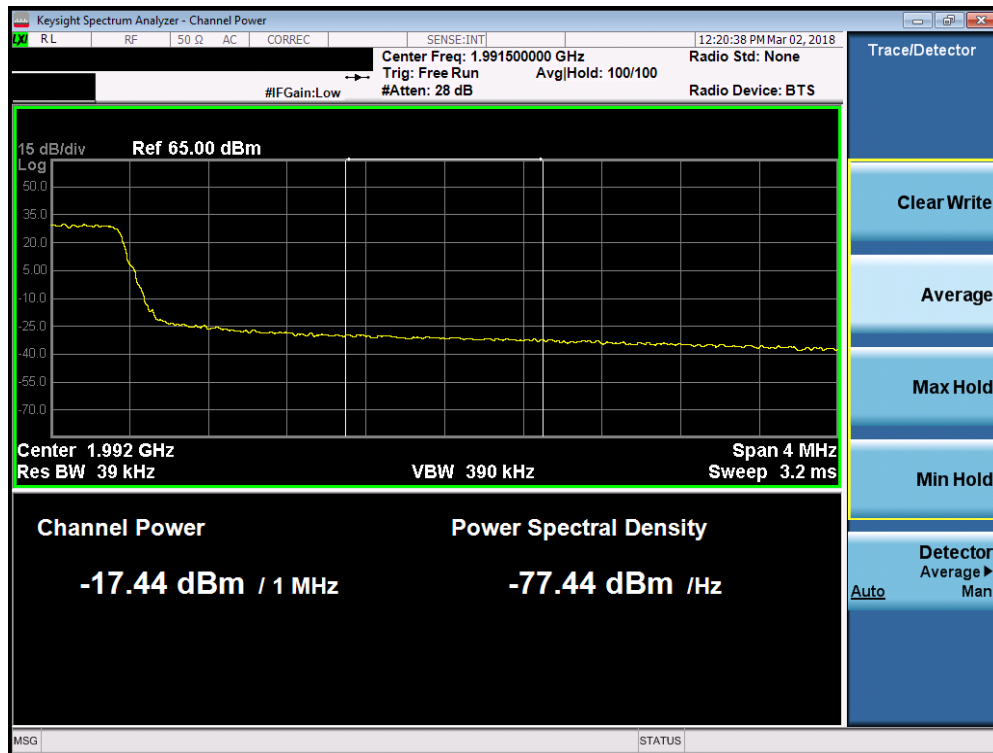


Plot 7-220. Lower Extended Band Edge Plot (Band 2 - 1.4MHz 64-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 133 of 264 |

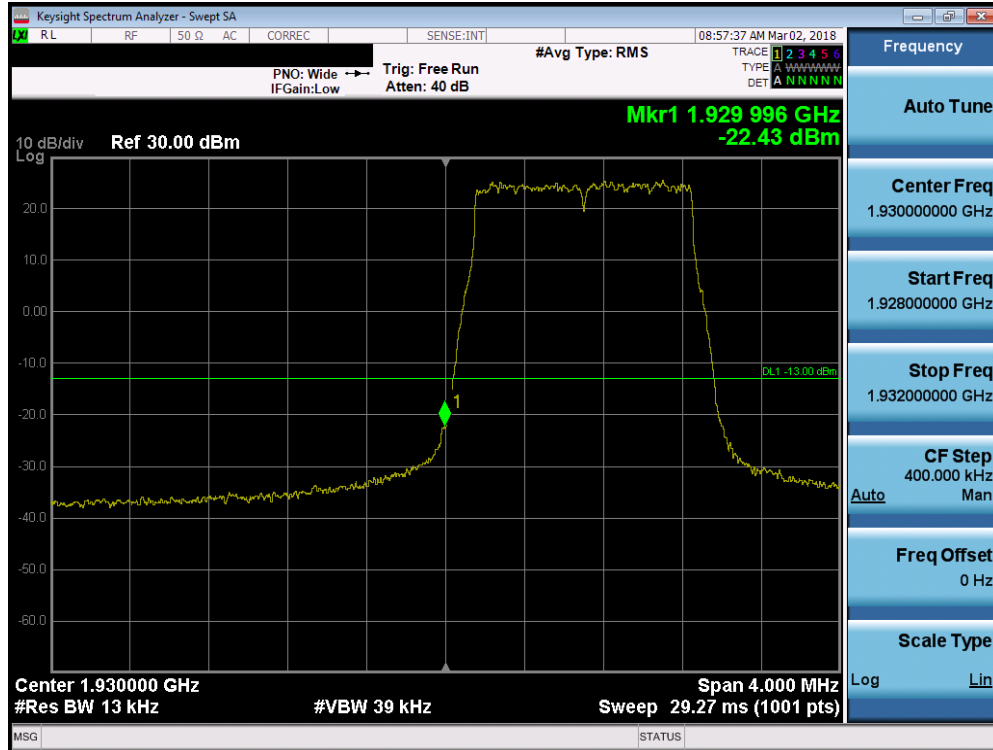


Plot 7-221. Upper Band Edge Plot (Band 2 - 1.4MHz 64-QAM)

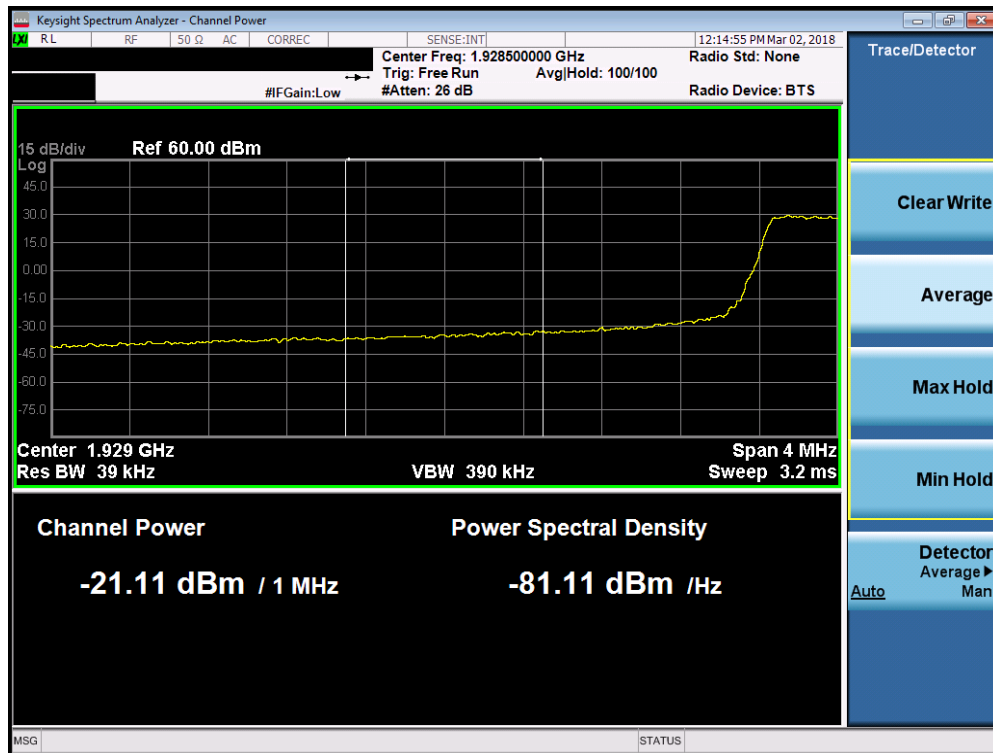


Plot 7-222. Upper Extended Band Edge Plot (Band 2 - 1.4MHz 64-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
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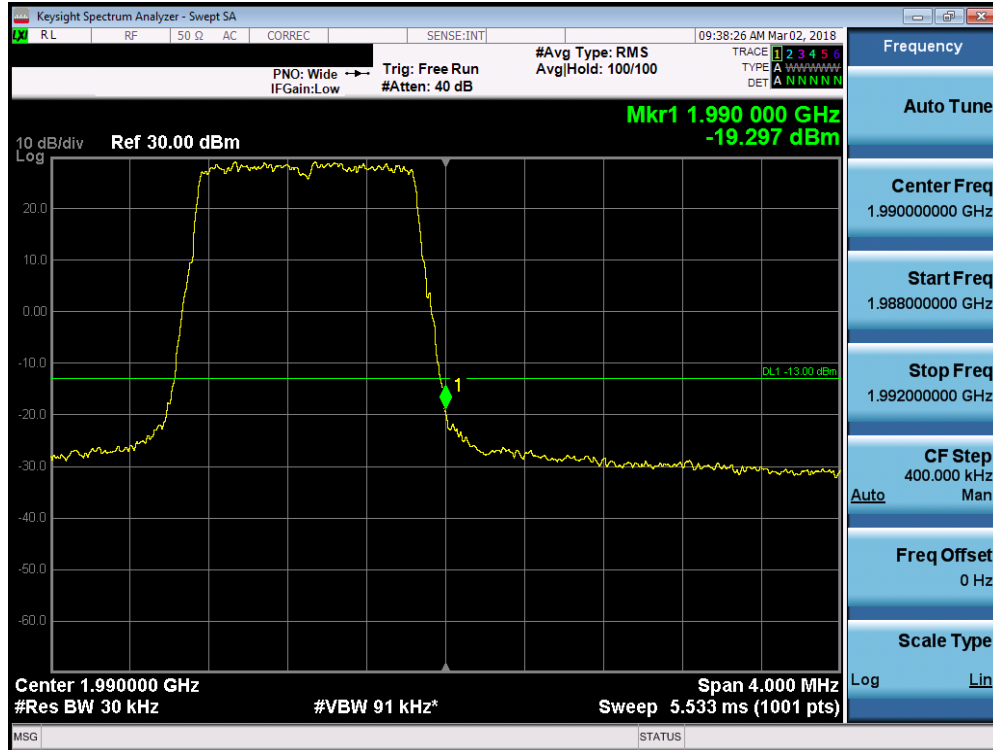


Plot 7-223. Lower Band Edge Plot (Band 2 - 1.4MHz 256-QAM)

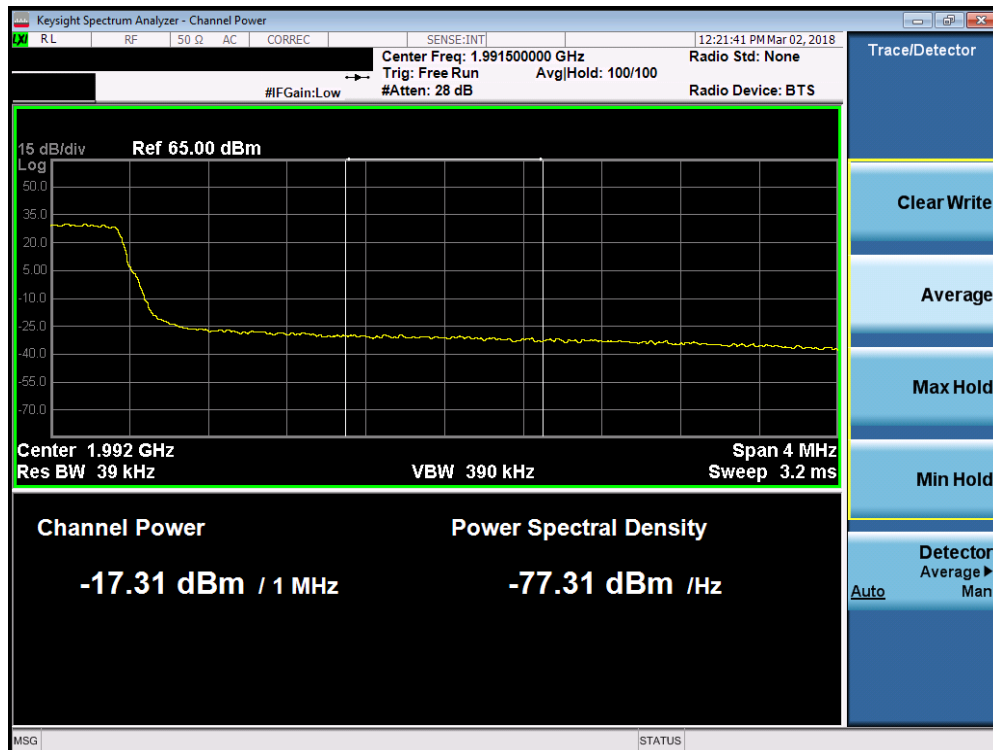


Plot 7-224. Lower Extended Band Edge Plot (Band 2 - 1.4MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
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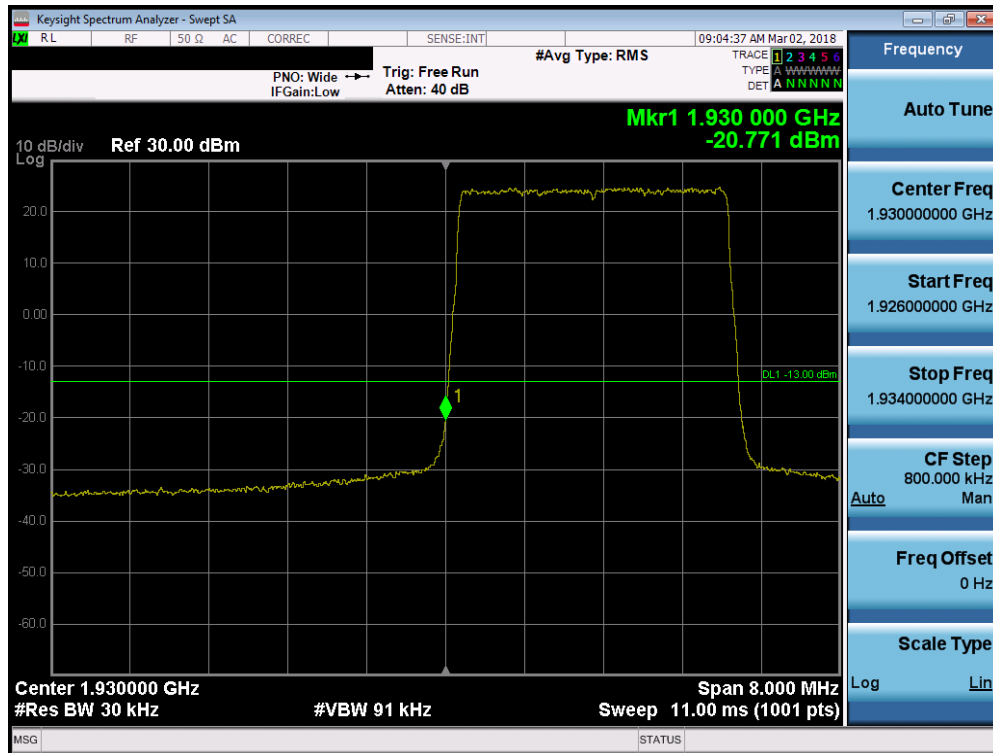


Plot 7-225. Upper Band Edge Plot (Band 2 - 1.4MHz 256-QAM)

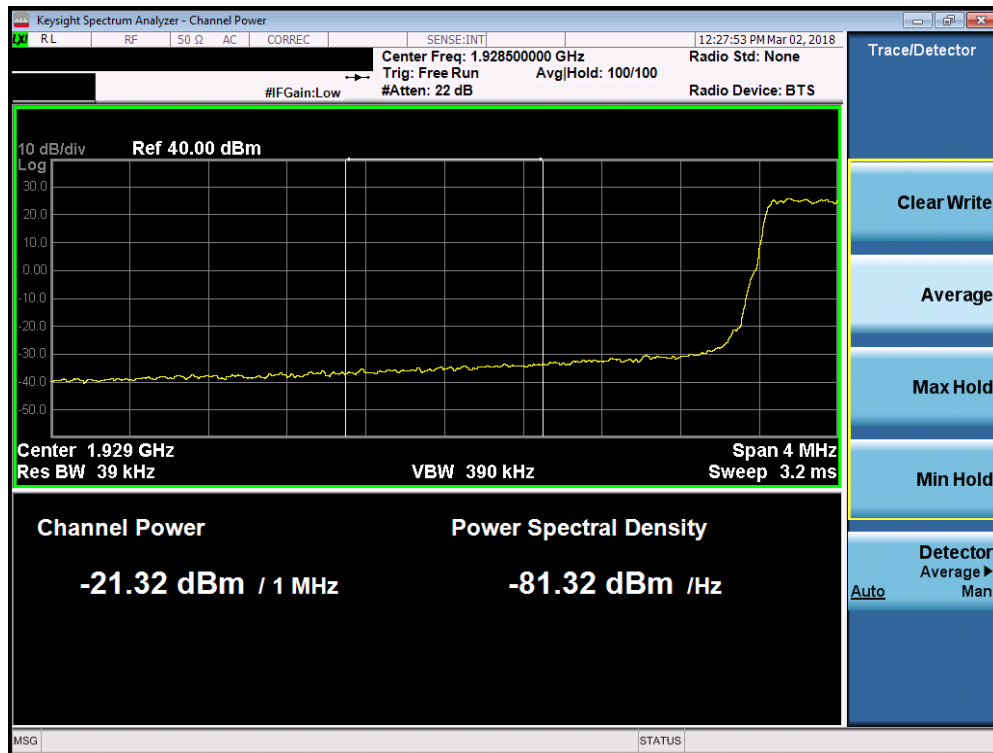


Plot 7-226. Upper Extended Band Edge Plot (Band 2 - 1.4MHz 256-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 136 of 264 |

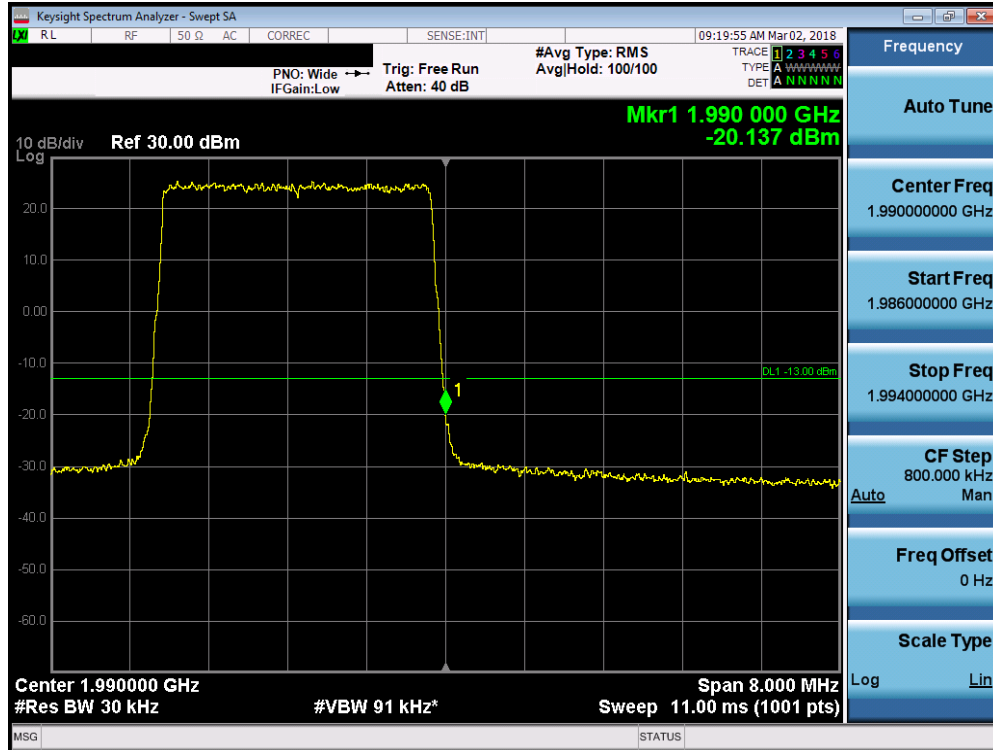


Plot 7-227. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK)

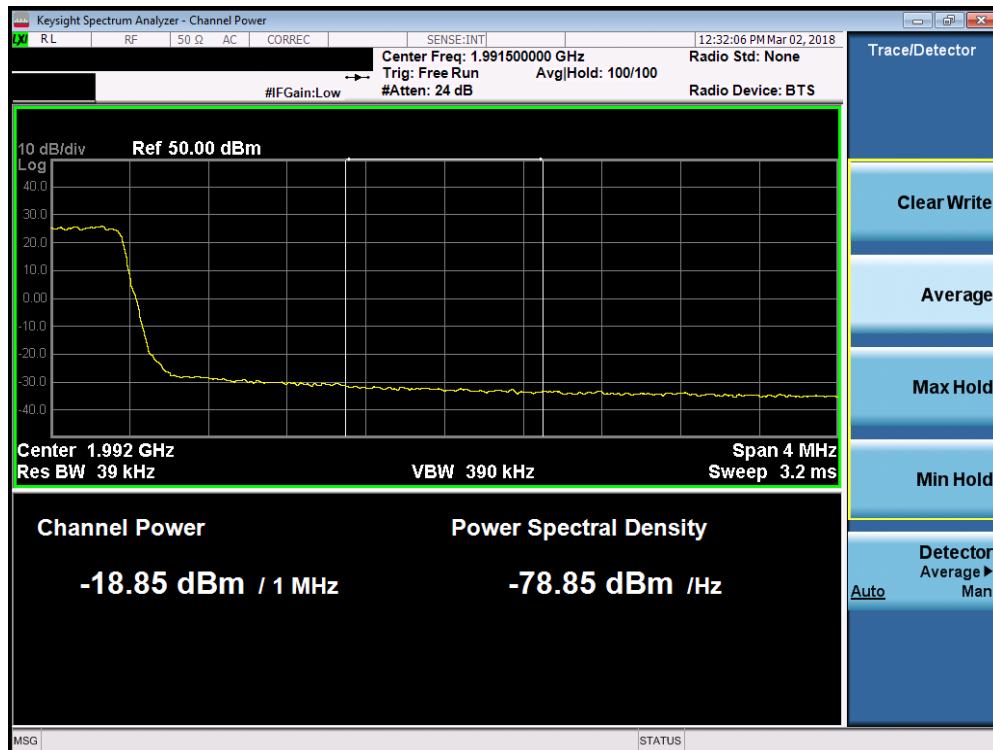


Plot 7-228. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
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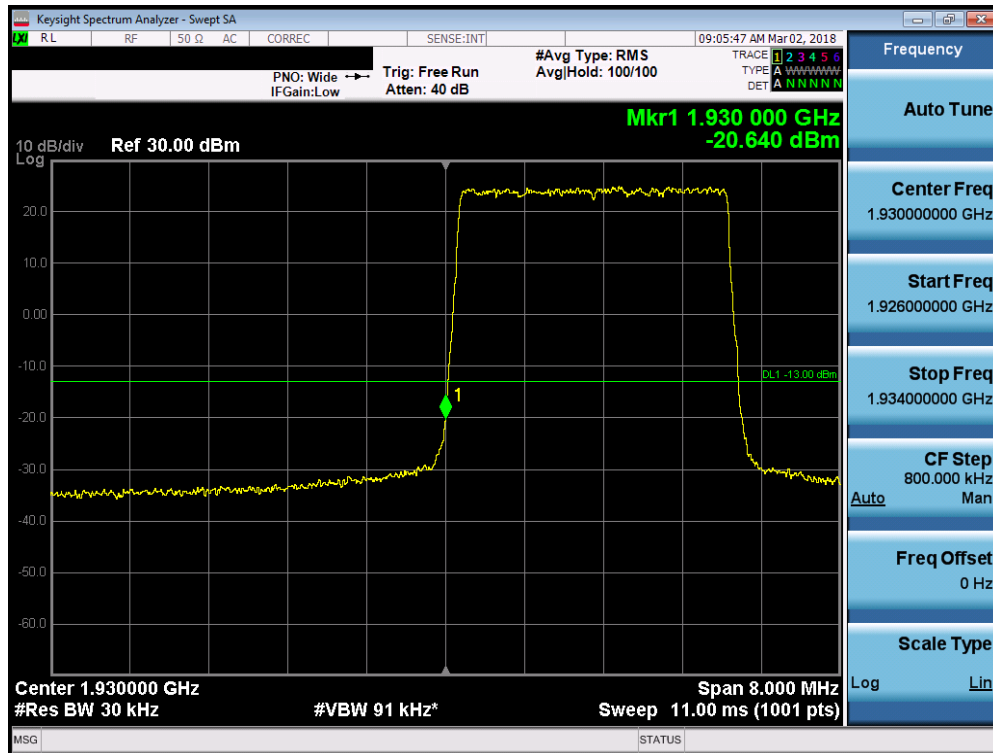


Plot 7-229. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK)

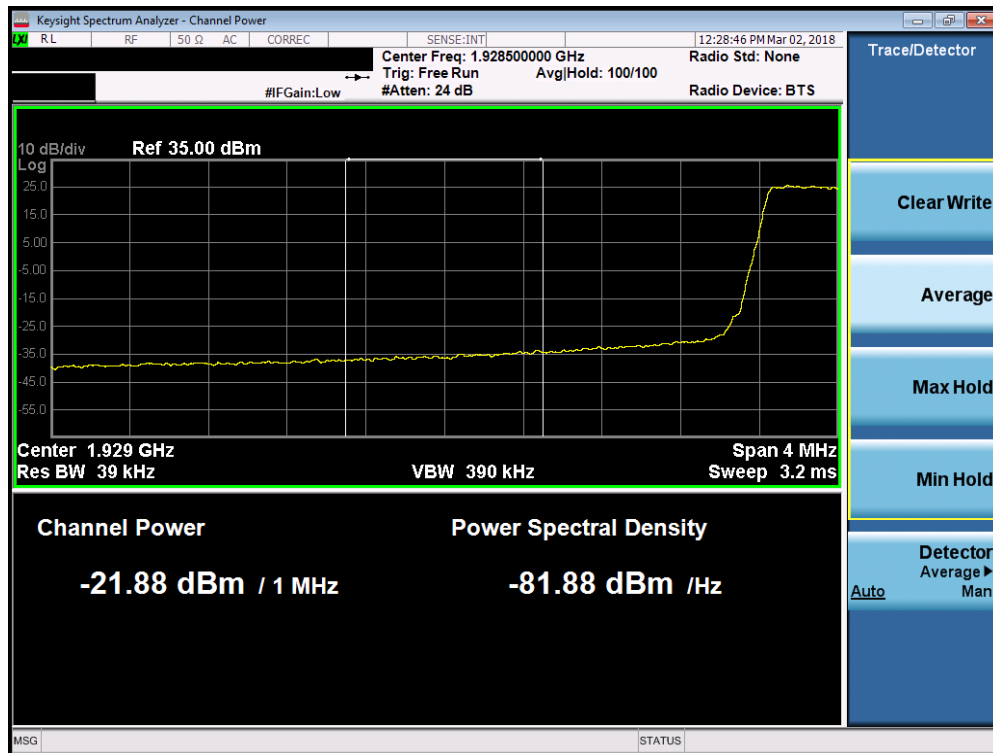


Plot 7-230. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
| Test Report S/N: 1M1801290011-03-R1.QLJ | Test Dates: 3/2-3/5/2018 | EUT Type: Remote Radio Head | | Page 138 of 264 |

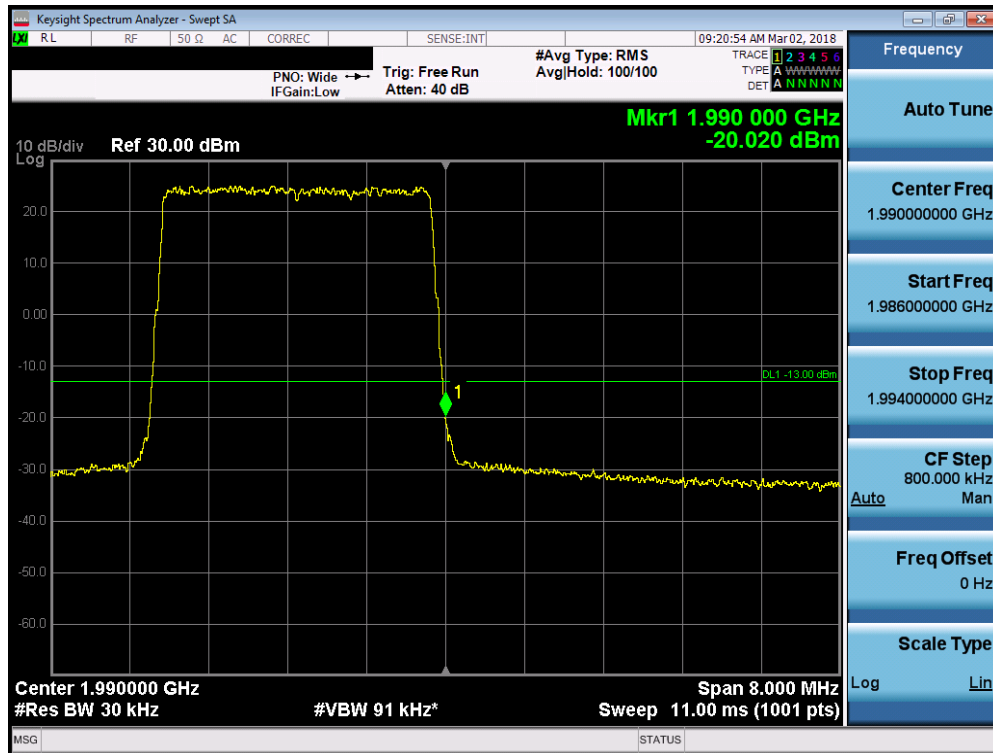


Plot 7-231. Lower Band Edge Plot (Band 2 - 3.0MHz 16-QAM)

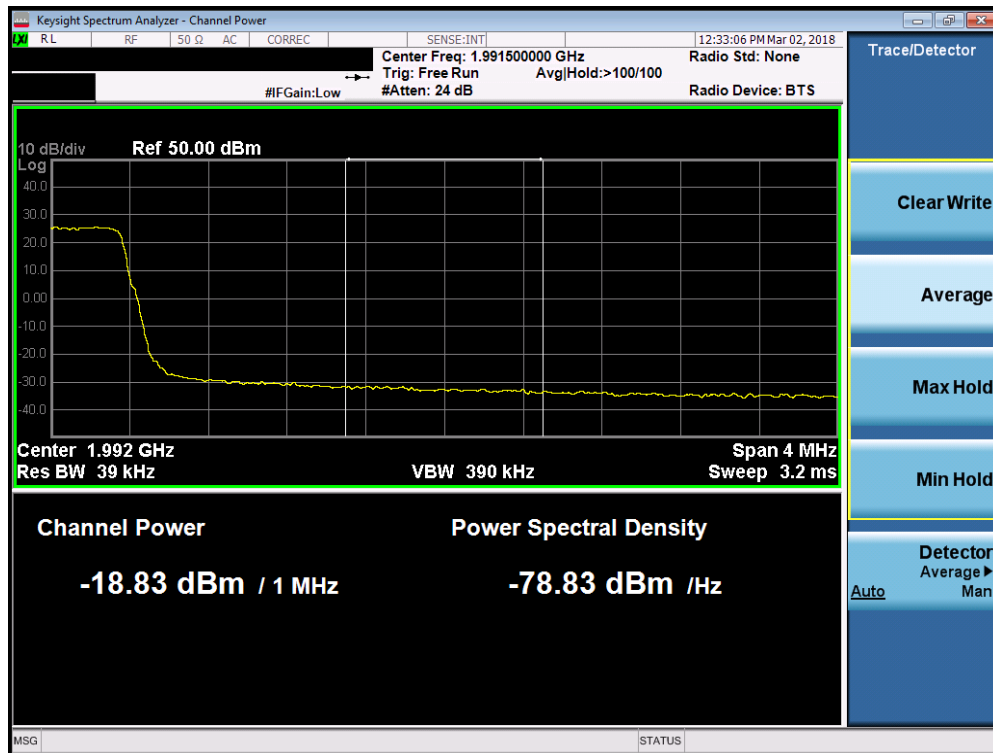


Plot 7-232. Lower Extended Band Edge Plot (Band 2 - 3.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
| FCC ID: QLJ4GRFN-002 | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | Tecore networks | Approved by: Quality Manager |
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Plot 7-233. Upper Band Edge Plot (Band 2 - 3.0MHz 16-QAM)



Plot 7-234. Upper Extended Band Edge Plot (Band 2 - 3.0MHz 16-QAM)

| | | | | |
|--|---|---------------------------------------|---------------------------|---------------------------------|
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