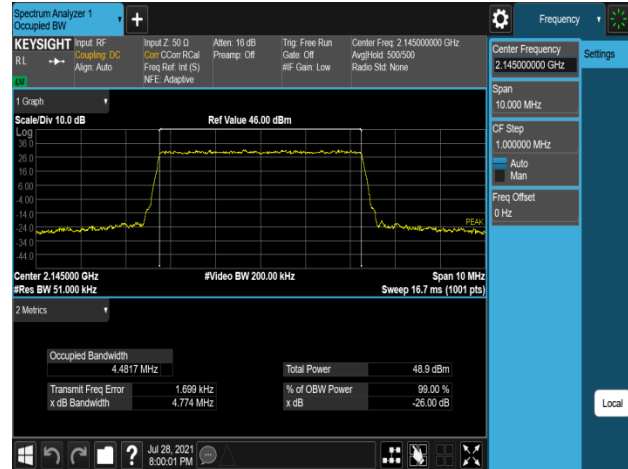
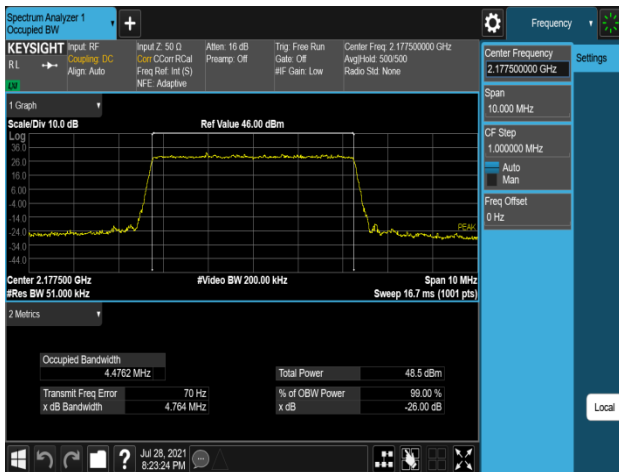


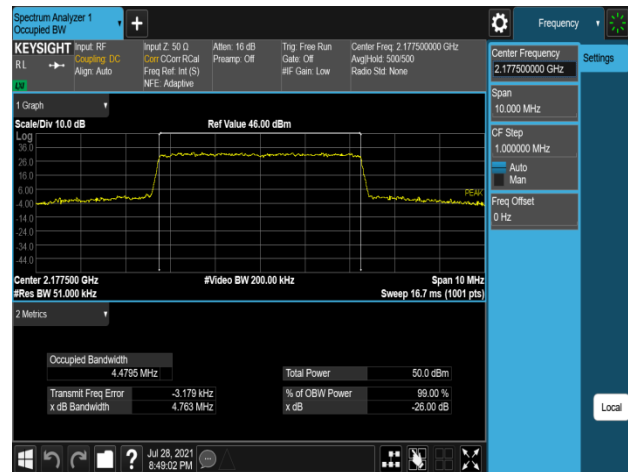
Plot 7-115. Occupied Bandwidth Plot  
(B66\_5M\_1C\_64QAM - Mid Channel, Port 3)



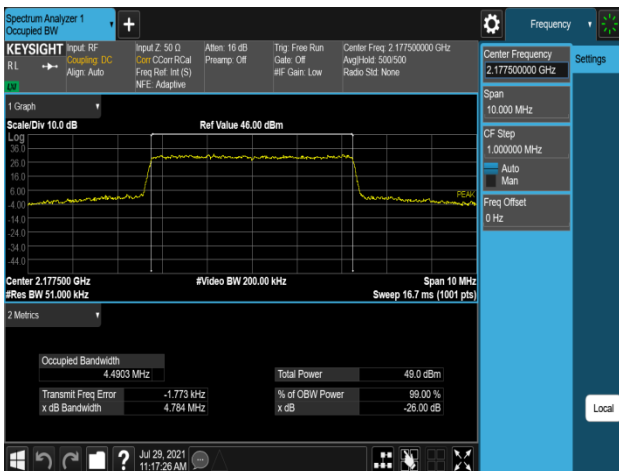
Plot 7-116. Occupied Bandwidth Plot  
(B66\_5M\_1C\_256QAM - Mid Channel, Port 0)



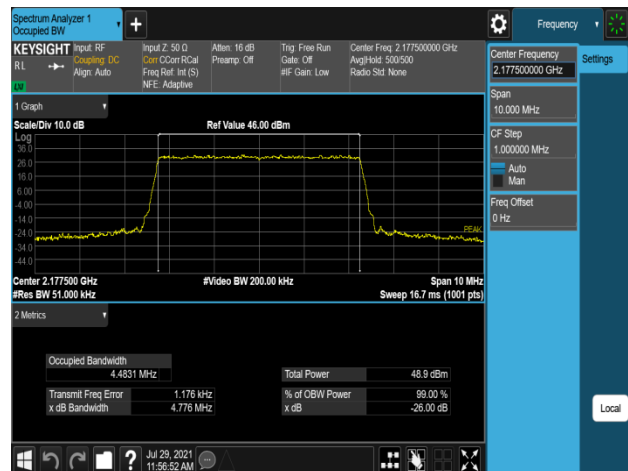
Plot 7-117. Occupied Bandwidth Plot  
(B66\_5M\_1C\_QPSK - High Channel, Port 2)





Plot 7-118. Occupied Bandwidth Plot  
(B66\_5M\_1C\_16QAM - High Channel, Port 2)

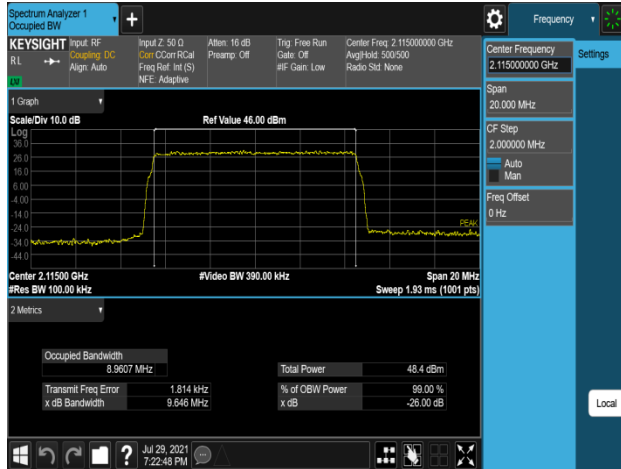


Plot 7-119. Occupied Bandwidth Plot  
(B66\_5M\_1C\_64QAM - High Channel, Port 0)

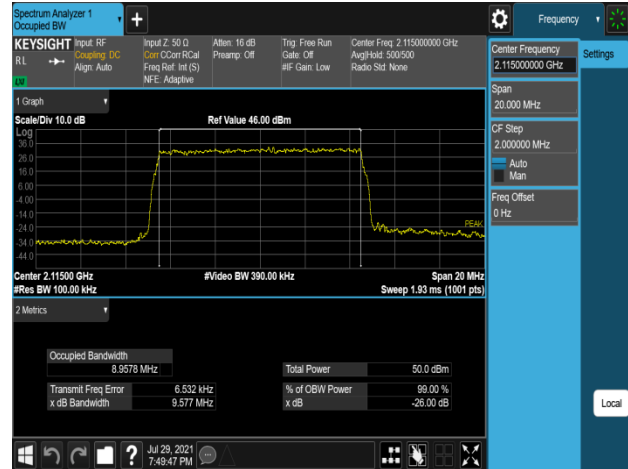


Plot 7-120. Occupied Bandwidth Plot  
(B66\_5M\_1C\_256QAM - High Channel, Port 0)

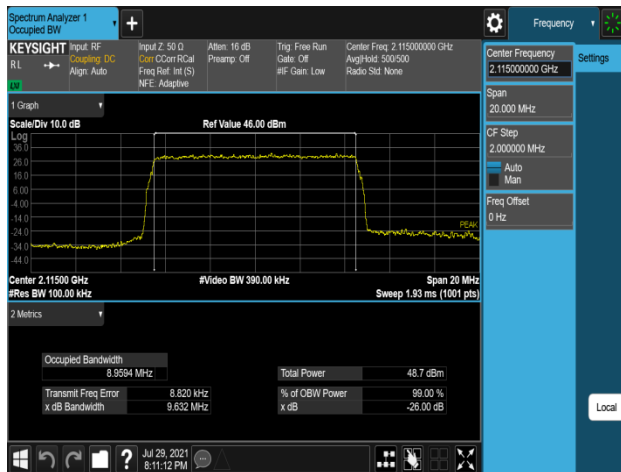
|  |   |                           |   |                                   |
|--|---|---------------------------|---|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |  | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021  | EUT Type:<br>RRU(RF4437d) |   | Page 43 of 430                    |



Plot 7-121. Occupied Bandwidth Plot  
(B66\_10M\_1C\_QPSK - Low Channel, Port 1)



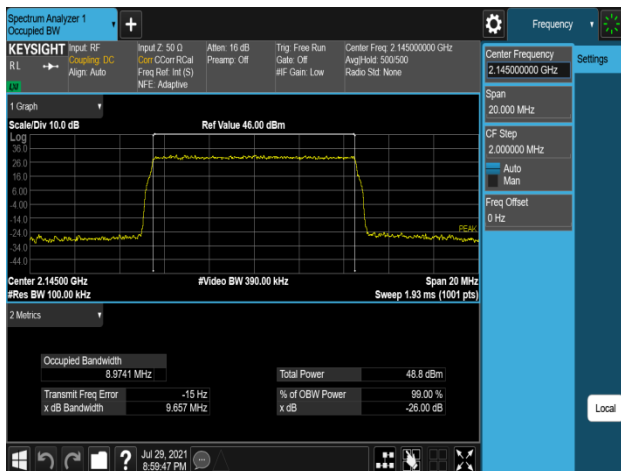
Plot 7-122. Occupied Bandwidth Plot  
(B66\_10M\_1C\_16QAM - Low Channel, Port 3)



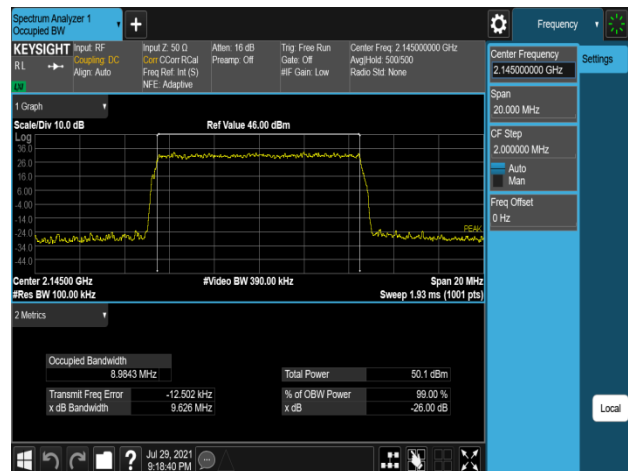
Plot 7-123. Occupied Bandwidth Plot  
(B66\_10M\_1C\_64QAM - Low Channel, Port 1)





Plot 7-124. Occupied Bandwidth Plot  
(B66\_10M\_1C\_256QAM - Low Channel, Port 2)

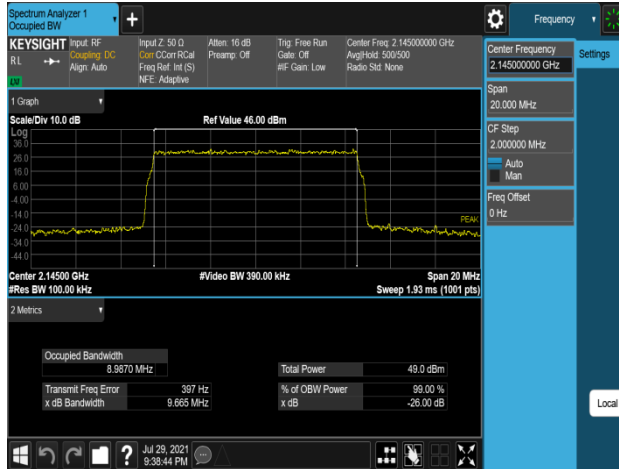


Plot 7-125. Occupied Bandwidth Plot  
(B66\_10M\_1C\_QPSK - Mid Channel, Port 3)

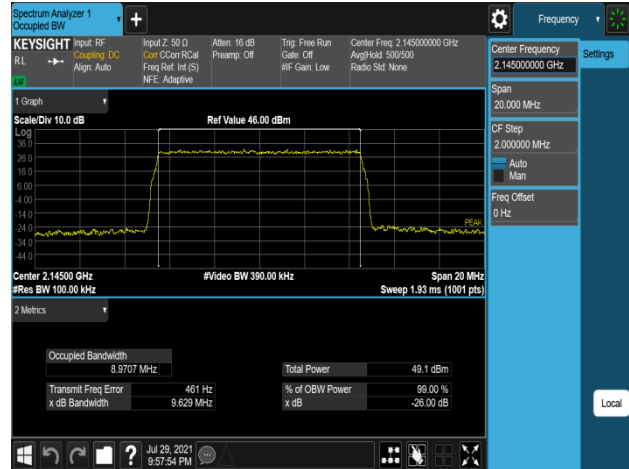


Plot 7-126. Occupied Bandwidth Plot  
(B66\_10M\_1C\_16QAM - Mid Channel, Port 1)

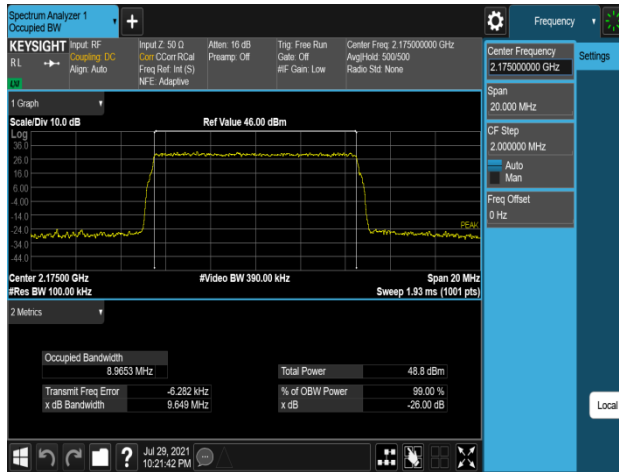
|  |   |                           |   |                                   |
|--|---|---------------------------|---|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |  | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021  | EUT Type:<br>RRU(RF4437d) |   | Page 44 of 430                    |



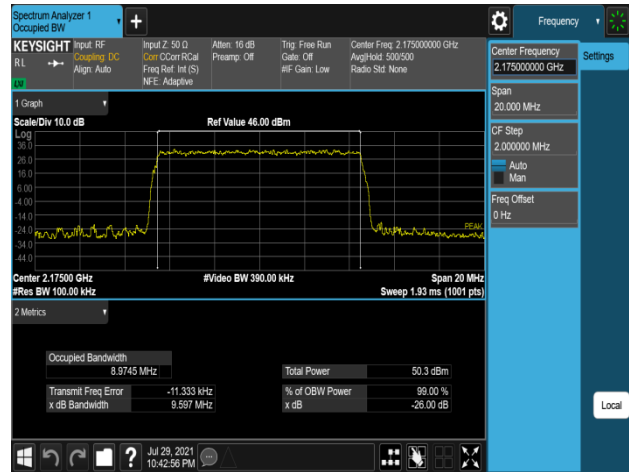
Plot 7-127. Occupied Bandwidth Plot (B66\_10M\_1C\_64QAM - Mid Channel, Port 3)



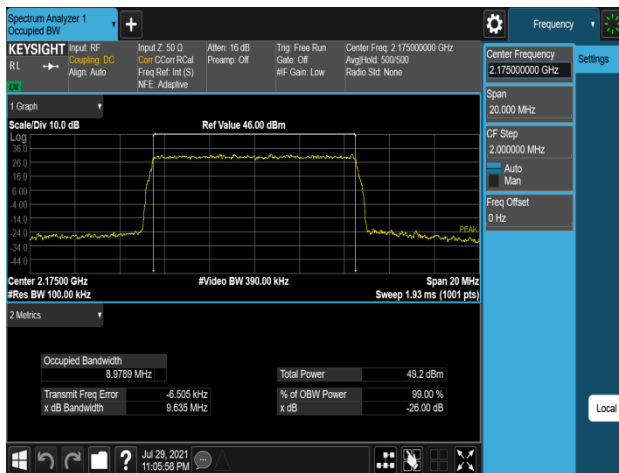
Plot 7-128. Occupied Bandwidth Plot (B66\_10M\_1C\_256QAM - Mid Channel, Port 2)



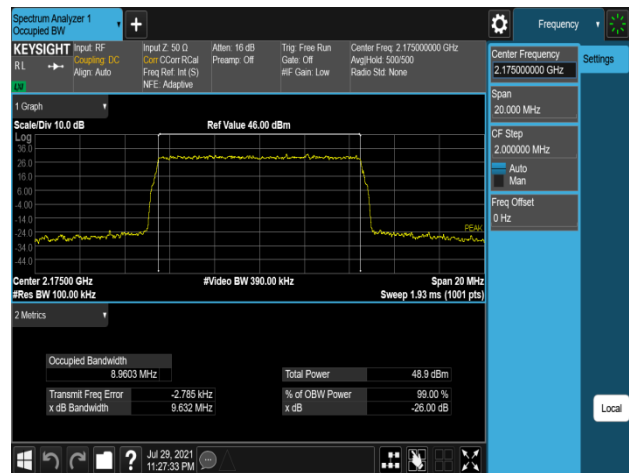
Plot 7-129. Occupied Bandwidth Plot (B66\_10M\_1C\_QPSK - High Channel, Port 3)



Plot 7-130. Occupied Bandwidth Plot (B66\_10M\_1C\_16QAM - High Channel, Port 0)

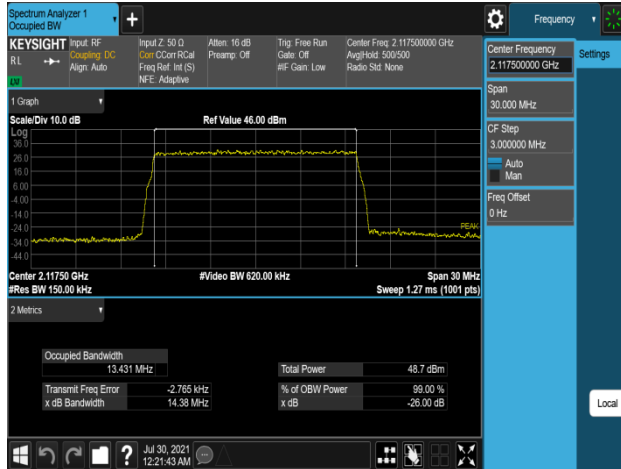


Plot 7-131. Occupied Bandwidth Plot (B66\_10M\_1C\_64QAM - High Channel, Port 3)

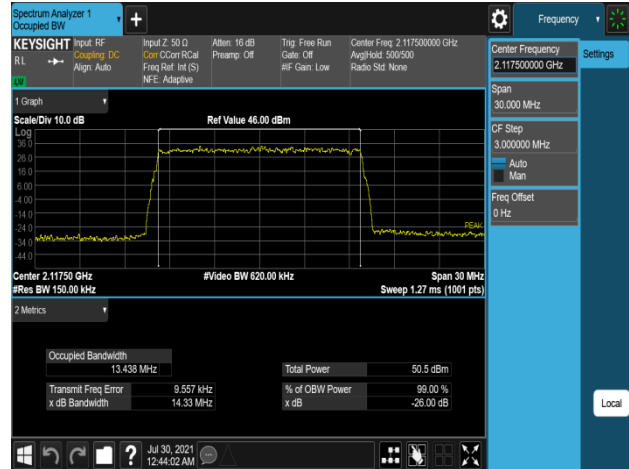


Plot 7-132. Occupied Bandwidth Plot (B66\_10M\_1C\_256QAM - High Channel, Port 1)

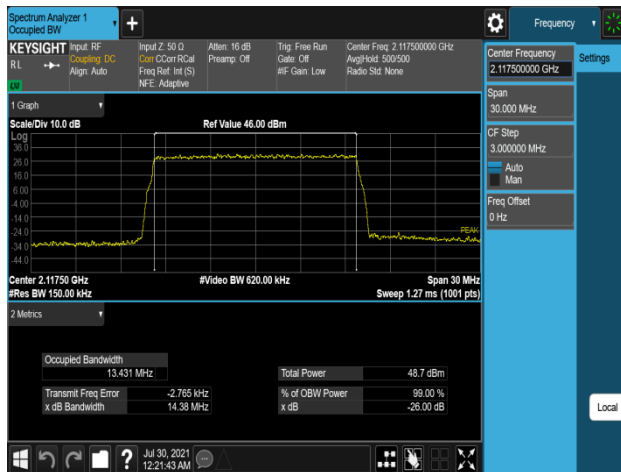
|   |   |                                  |  |  |
|---|---|----------------------------------|--|--|
| FCC ID: A3LRF4437D-25D                          |   | <b>MEASUREMENT REPORT</b>        |  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>8K21071202-02-R2.A3L | <b>Test Dates:</b><br>07/19/2021-08/18/2021 | <b>EUT Type:</b><br>RRU(RF4437d) |  | Page 45 of 430                           |



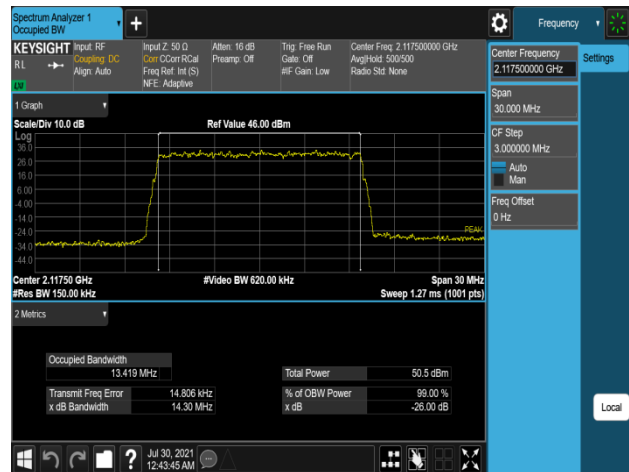
Plot 7-133. Occupied Bandwidth Plot  
(B66\_15M\_1C\_QPSK - Low Channel, Port 1)



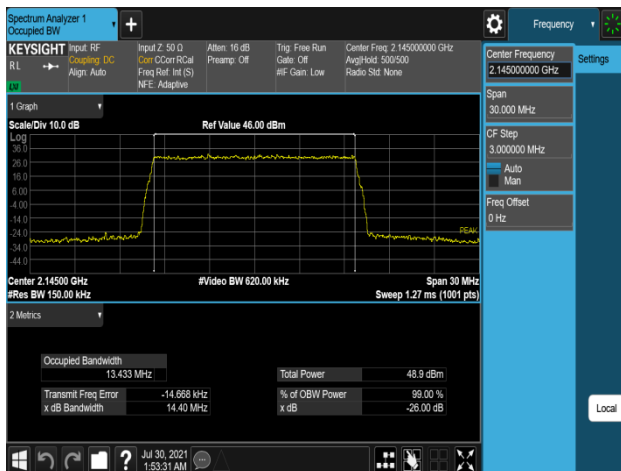
Plot 7-134. Occupied Bandwidth Plot  
(B66\_15M\_1C\_16QAM - Low Channel, Port 2)



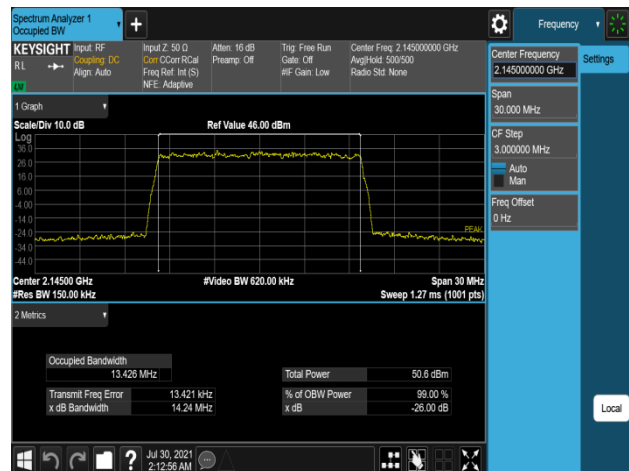
Plot 7-135. Occupied Bandwidth Plot  
(B66\_15M\_1C\_QPSK - Low Channel, Port 1)



Plot 7-136. Occupied Bandwidth Plot  
(B66\_15M\_1C\_16QAM - Low Channel, Port 1)

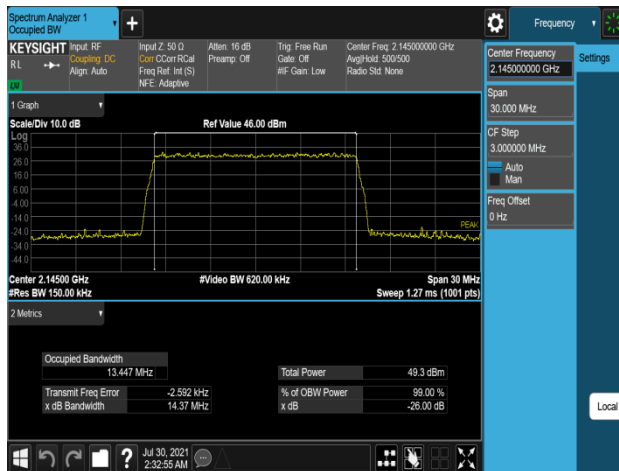


Plot 7-137. Occupied Bandwidth Plot  
(B66\_15M\_1C\_QPSK - Mid Channel, Port 0)

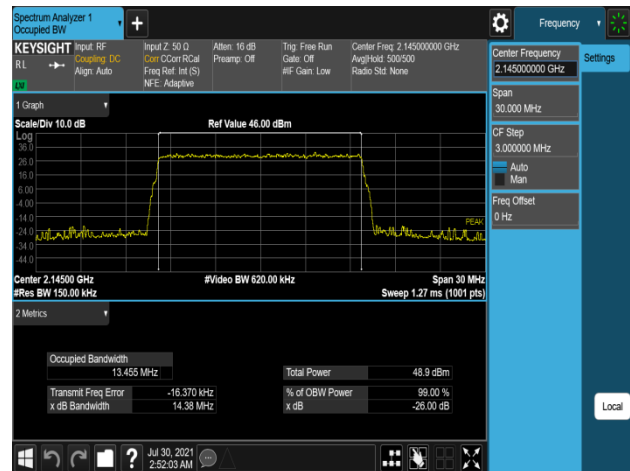


Plot 7-138. Occupied Bandwidth Plot  
(B66\_15M\_1C\_16QAM - Mid Channel, Port 0)

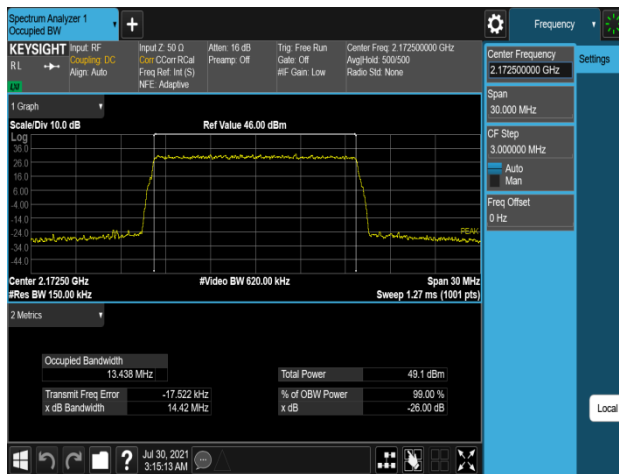
|  |  |                           |  |                                   |
|--|--|---------------------------|--|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   | PCTEST<br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021   | EUT Type:<br>RRU(RF4437d) |  | Page 46 of 430                    |



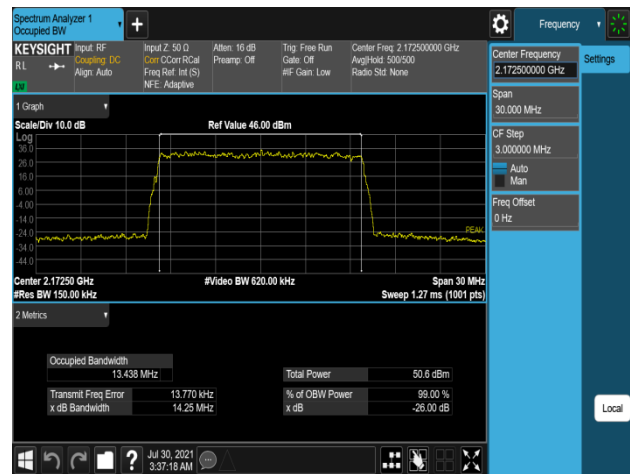
Plot 7-139. Occupied Bandwidth Plot  
(B66\_15M\_1C\_64QAM - Mid Channel, Port 2)



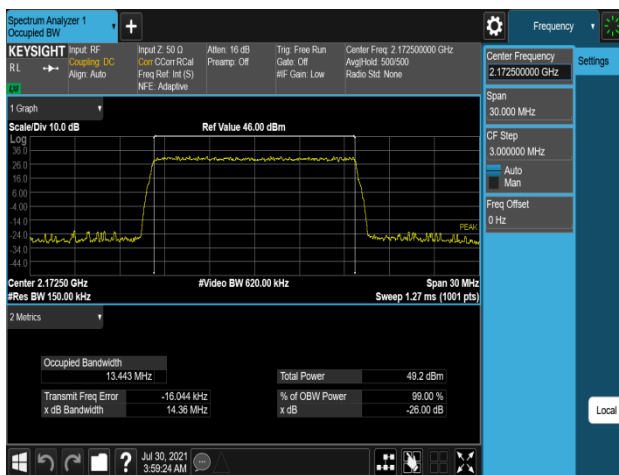
Plot 7-140. Occupied Bandwidth Plot  
(B66\_15M\_1C\_256QAM - Mid Channel, Port 1)



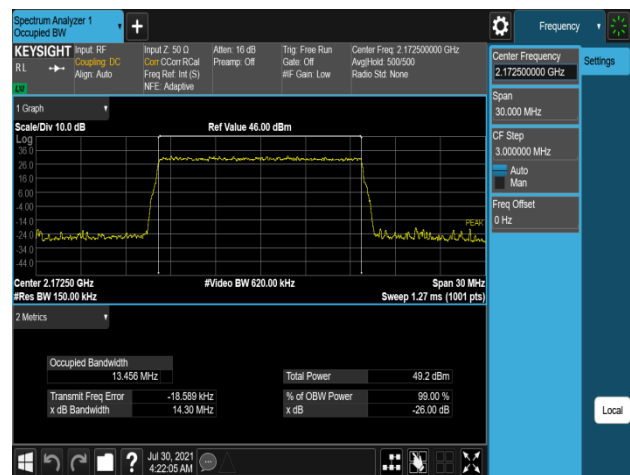
Plot 7-141. Occupied Bandwidth Plot  
(B66\_15M\_1C\_QPSK - High Channel, Port 0)



Plot 7-142. Occupied Bandwidth Plot  
(B66\_15M\_1C\_16QAM - High Channel, Port 0)

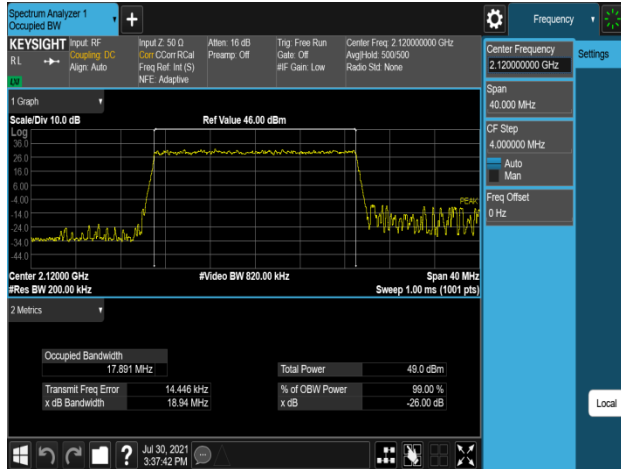


Plot 7-143. Occupied Bandwidth Plot  
(B66\_15M\_1C\_64QAM - High Channel, Port 0)

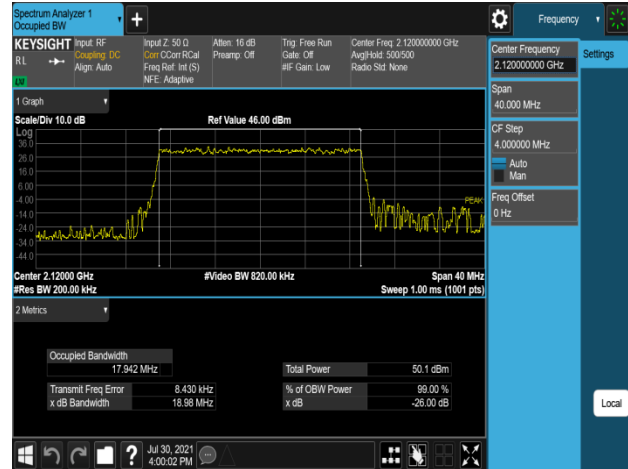


Plot 7-144. Occupied Bandwidth Plot  
(B66\_15M\_1C\_256QAM - High Channel, Port 2)

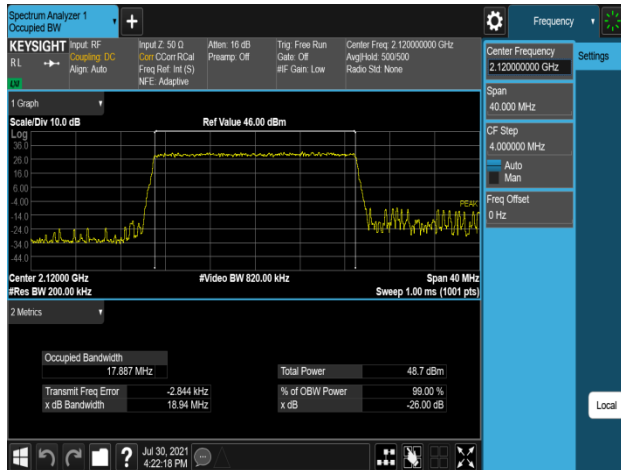
|  |                                      |                           |  |                                   |
|--|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |                                      | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021 | EUT Type:<br>RRU(RF4437d) |  | Page 47 of 430                    |



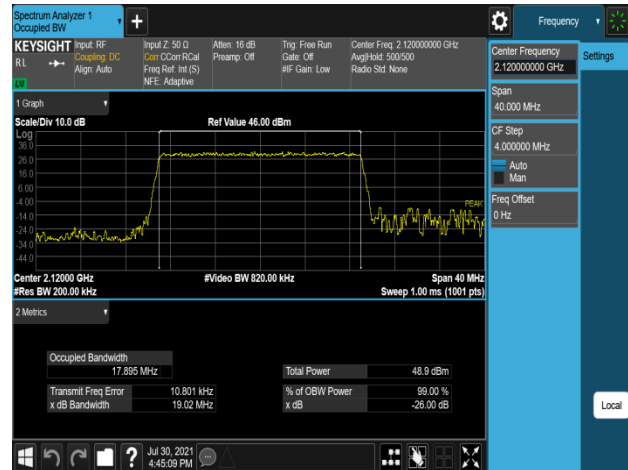
Plot 7-145. Occupied Bandwidth Plot  
(B66\_20M\_1C\_QPSK - Low Channel, Port 3)



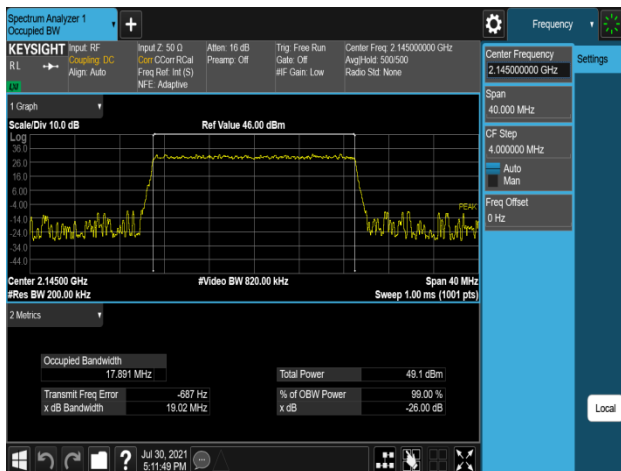
Plot 7-146. Occupied Bandwidth Plot  
(B66\_20M\_1C\_16QAM - Low Channel, Port 2)



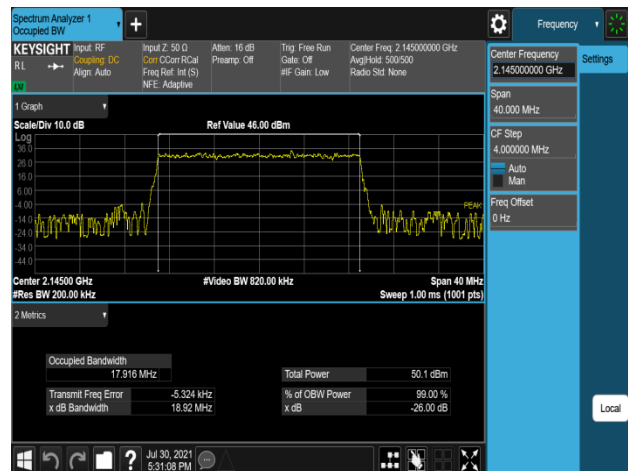
Plot 7-147. Occupied Bandwidth Plot  
(B66\_20M\_1C\_64QAM - Low Channel, Port 1)



Plot 7-148. Occupied Bandwidth Plot  
(B66\_20M\_1C\_256QAM - Low Channel, Port 2)

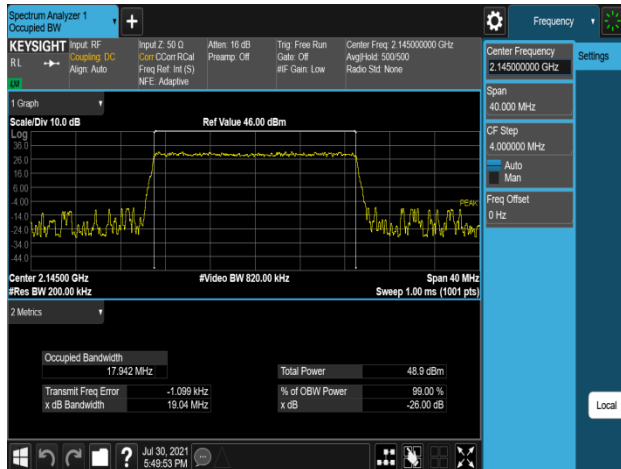


Plot 7-149. Occupied Bandwidth Plot  
(B66\_20M\_1C\_QPSK - Mid Channel, Port 3)

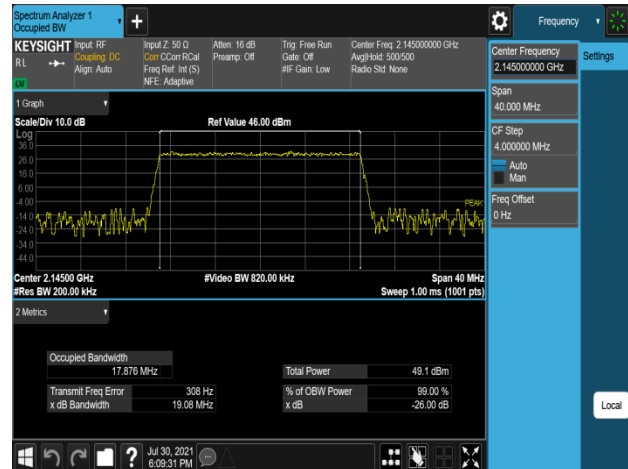


Plot 7-150. Occupied Bandwidth Plot  
(B66\_20M\_1C\_16QAM - Mid Channel, Port 3)

|  |                                      |                           |  |                                   |
|--|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |                                      | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021 | EUT Type:<br>RRU(RF4437d) |  | Page 48 of 430                    |



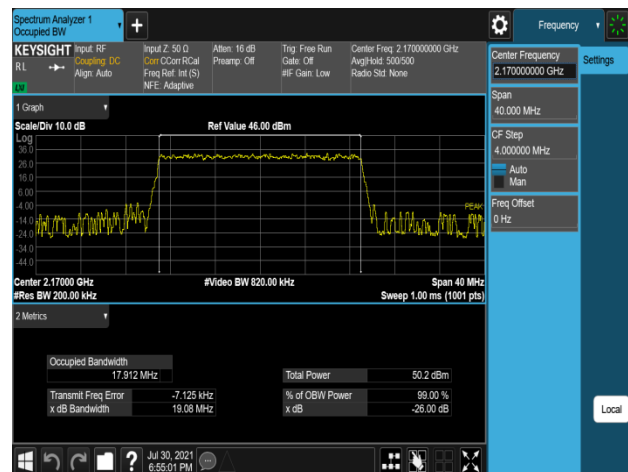
Plot 7-151. Occupied Bandwidth Plot  
(B66\_20M\_1C\_64QAM - Mid Channel, Port 1)



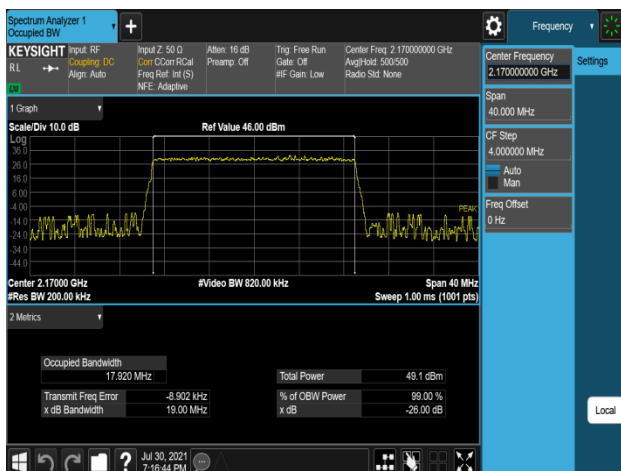
Plot 7-152. Occupied Bandwidth Plot  
(B66\_20M\_1C\_256QAM - Mid Channel, Port 2)



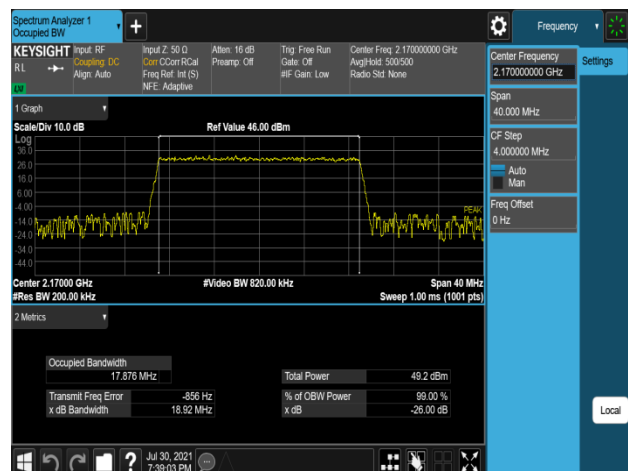
Plot 7-153. Occupied Bandwidth Plot  
(B66\_20M\_1C\_QPSK - High Channel, Port 3)



Plot 7-154. Occupied Bandwidth Plot  
(B66\_20M\_1C\_16QAM - High Channel, Port 2)



Plot 7-155. Occupied Bandwidth Plot  
(B66\_20M\_1C\_64QAM - High Channel, Port 1)



Plot 7-156. Occupied Bandwidth Plot  
(B66\_20M\_1C\_256QAM - High Channel, Port 2)

|  |                                      |                           |  |                                   |
|--|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |                                      | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021 | EUT Type:<br>RRU(RF4437d) |  | Page 49 of 430                    |





| Channel | Port | OBW (MHz)   |             |             |             |
|---------|------|-------------|-------------|-------------|-------------|
|         |      | QPSK        | 16QAM       | 64QAM       | 256QAM      |
| Low     | 0    | 9.41        | <b>9.42</b> | 9.40        | 9.43        |
|         | 1    | <b>9.42</b> | 9.42        | <b>9.43</b> | 9.43        |
|         | 2    | 9.42        | 9.41        | 9.42        | <b>9.44</b> |
|         | 3    | 9.42        | 9.42        | 9.41        | 9.44        |
| Middle  | 0    | <b>9.43</b> | <b>9.43</b> | <b>9.43</b> | 9.43        |
|         | 1    | 9.43        | 9.43        | 9.42        | <b>9.46</b> |
|         | 2    | 9.43        | 9.43        | 9.43        | 9.45        |
|         | 3    | 9.43        | 9.42        | 9.43        | 9.46        |
| High    | 0    | 9.43        | <b>9.43</b> | <b>9.45</b> | 9.44        |
|         | 1    | 9.43        | 9.41        | 9.43        | 9.44        |
|         | 2    | 9.43        | 9.42        | 9.43        | <b>9.45</b> |
|         | 3    | <b>9.44</b> | 9.42        | 9.43        | 9.44        |

**Table 7-15. Occupied Bandwidth Summary Data (B66\_5M+5M\_2C)**

| Channel | Port | OBW (MHz)    |              |              |              |
|---------|------|--------------|--------------|--------------|--------------|
|         |      | QPSK         | 16QAM        | 64QAM        | 256QAM       |
| Low     | 0    | 23.58        | 23.66        | <b>23.63</b> | 23.65        |
|         | 1    | 23.63        | 23.64        | 23.62        | 23.64        |
|         | 2    | <b>23.67</b> | <b>23.70</b> | 23.62        | <b>23.67</b> |
|         | 3    | 23.64        | 23.67        | 23.59        | 23.67        |
| Middle  | 0    | 23.64        | 23.69        | 23.65        | <b>23.72</b> |
|         | 1    | <b>23.69</b> | <b>23.74</b> | 23.63        | 23.72        |
|         | 2    | 23.66        | 23.65        | <b>23.66</b> | 23.72        |
|         | 3    | 23.67        | 23.64        | 23.65        | 23.69        |
| High    | 0    | 23.64        | <b>23.74</b> | <b>23.66</b> | 23.67        |
|         | 1    | 23.64        | 23.61        | 23.65        | 23.67        |
|         | 2    | <b>23.67</b> | 23.67        | 23.64        | <b>23.73</b> |
|         | 3    | 23.64        | 23.67        | 23.62        | 23.69        |



**Table 7-16. Occupied Bandwidth Summary Data (B66\_5M+20M\_2C)**

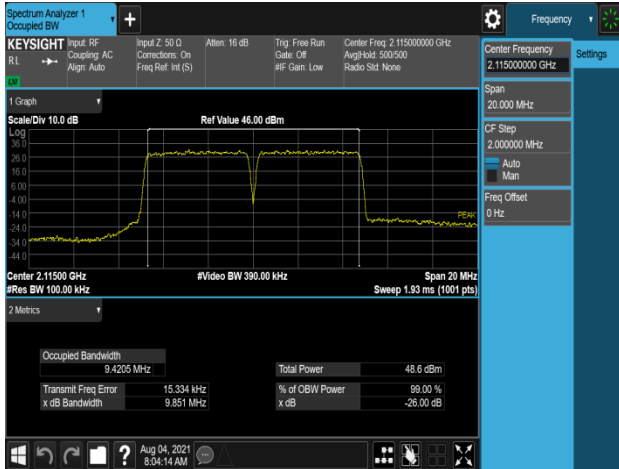
|   |   |                                  |   |  |
|---|---|----------------------------------|---|--|
| FCC ID: A3LRF4437D-25D                          |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>MEASUREMENT REPORT</b>        |  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>8K21071202-02-R2.A3L | <b>Test Dates:</b><br>07/19/2021-08/18/2021   | <b>EUT Type:</b><br>RRU(RF4437d) |   | Page 50 of 430                           |



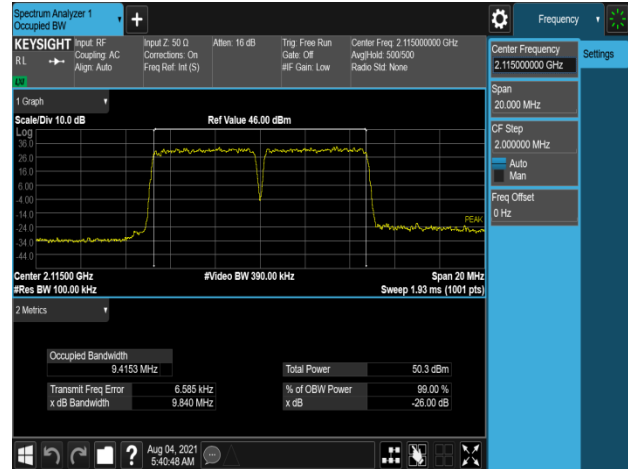
| Channel | Port | OBW (MHz)    |              |              |              |
|---------|------|--------------|--------------|--------------|--------------|
|         |      | QPSK         | 16QAM        | 64QAM        | 256QAM       |
| Low     | 0    | 37.72        | 37.84        | 37.73        | 37.78        |
|         | 1    | <b>37.79</b> | 37.82        | <b>37.78</b> | 37.77        |
|         | 2    | 37.76        | 37.84        | 37.75        | 37.78        |
|         | 3    | 37.79        | <b>37.94</b> | 37.74        | <b>37.81</b> |
| Middle  | 0    | 37.82        | <b>38.01</b> | 37.79        | 37.89        |
|         | 1    | <b>37.88</b> | 37.85        | 37.80        | 37.88        |
|         | 2    | 37.88        | 37.91        | <b>37.85</b> | <b>37.94</b> |
|         | 3    | 37.84        | 37.93        | 37.84        | 37.86        |
| High    | 0    | 37.82        | 37.91        | <b>37.81</b> | 37.81        |
|         | 1    | 37.86        | 37.89        | 37.78        | <b>37.87</b> |
|         | 2    | 37.84        | <b>37.98</b> | 37.81        | 37.81        |
|         | 3    | <b>37.88</b> | 37.80        | 37.80        | 37.78        |

**Table 7-17. Occupied Bandwidth Summary Data (B66\_20M+20M\_2C)**

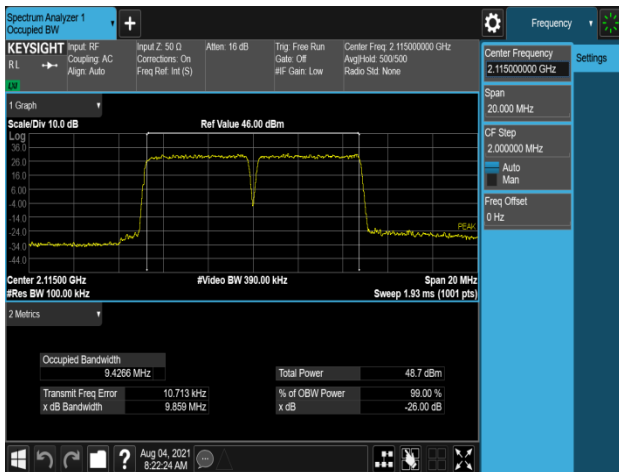
|   |   |                                  |   |  |
|---|---|----------------------------------|---|--|
| FCC ID: A3LRF4437D-25D                          |  | <b>MEASUREMENT REPORT</b>        |  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>8K21071202-02-R2.A3L | <b>Test Dates:</b><br>07/19/2021-08/18/2021   | <b>EUT Type:</b><br>RRU(RF4437d) | Page 51 of 430  |  |



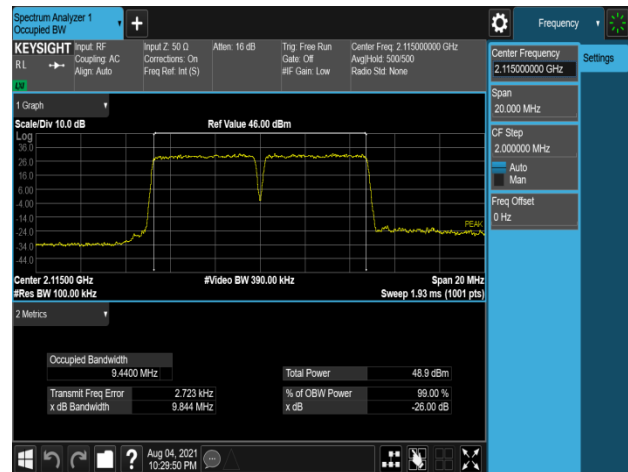
Plot 7-157. Occupied Bandwidth Plot  
(B66\_5M+5M\_2C\_QPSK - Low Channel, Port 1)



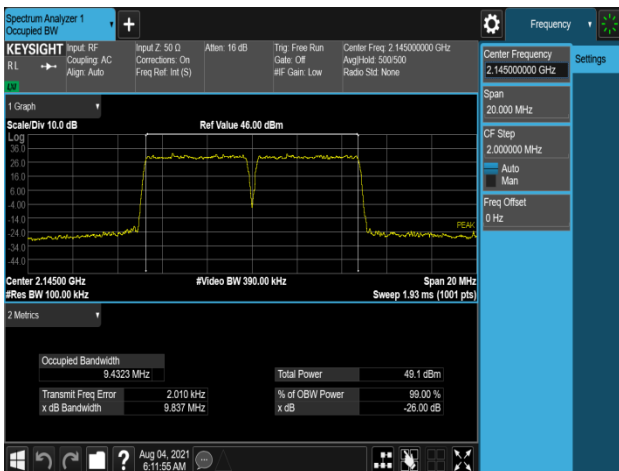
Plot 7-158. Occupied Bandwidth Plot  
(B66\_5M+5M\_2C\_16QAM - Low Channel, Port 0)



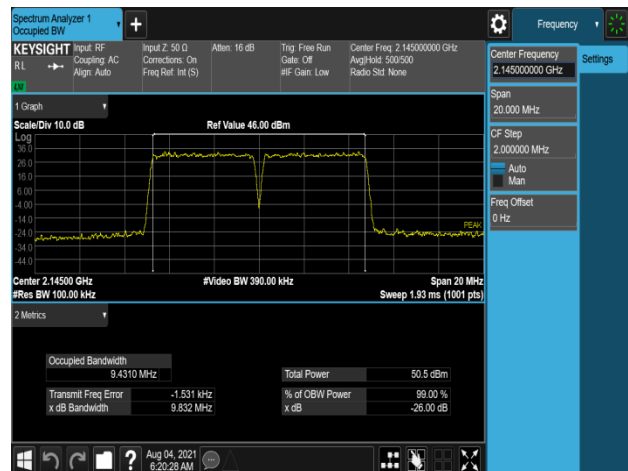
Plot 7-159. Occupied Bandwidth Plot  
(B66\_5M+5M\_2C\_64QAM - Low Channel, Port 1)





Plot 7-160. Occupied Bandwidth Plot  
(B66\_5M+5M\_2C\_256QAM - Low Channel, Port 2)

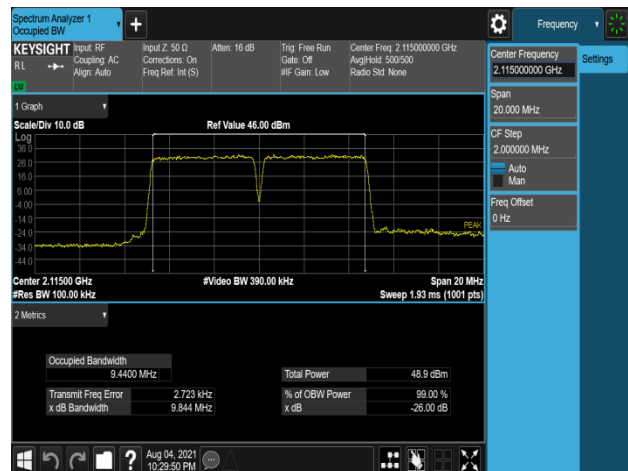
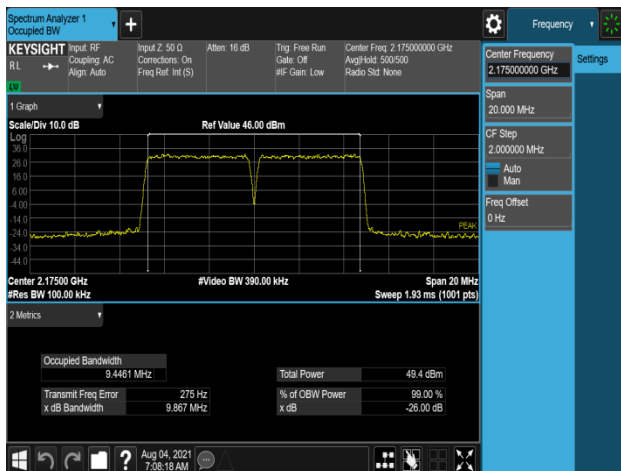
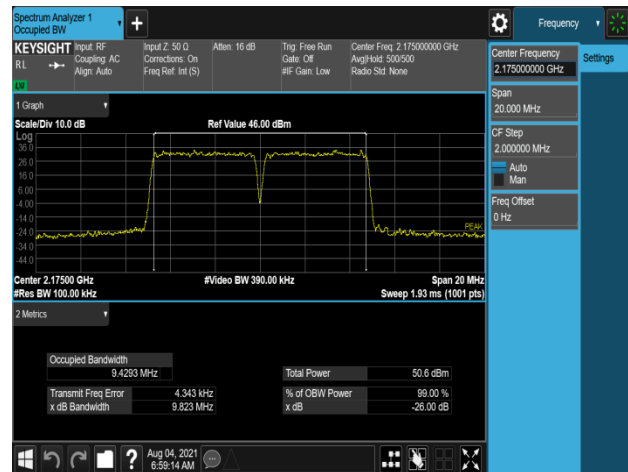
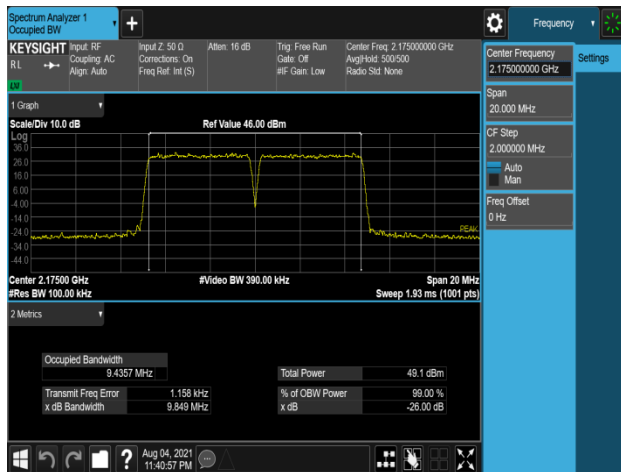
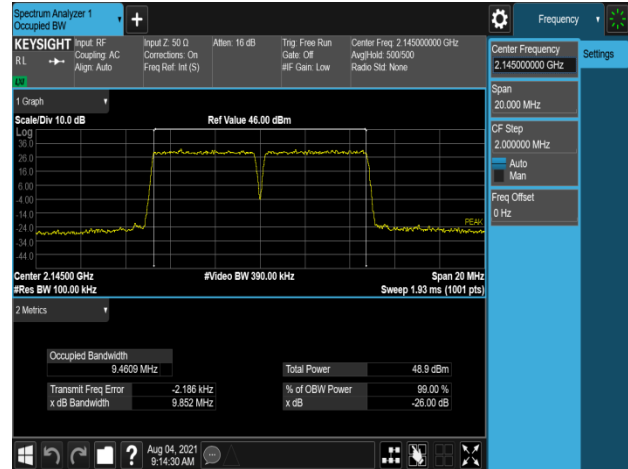
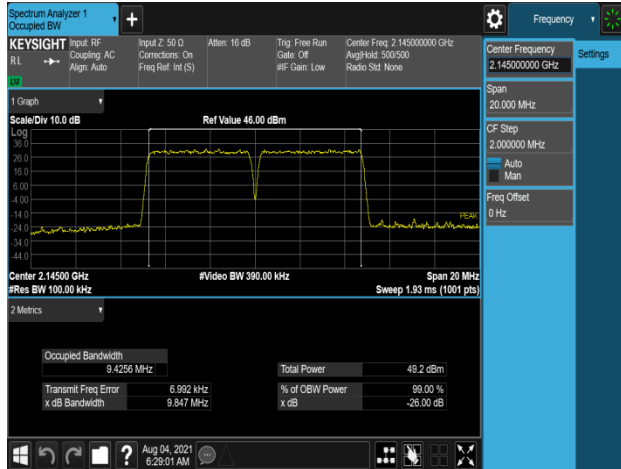




Plot 7-161. Occupied Bandwidth Plot  
(B66\_5M+5M\_2C\_QPSK - Mid Channel, Port 0)

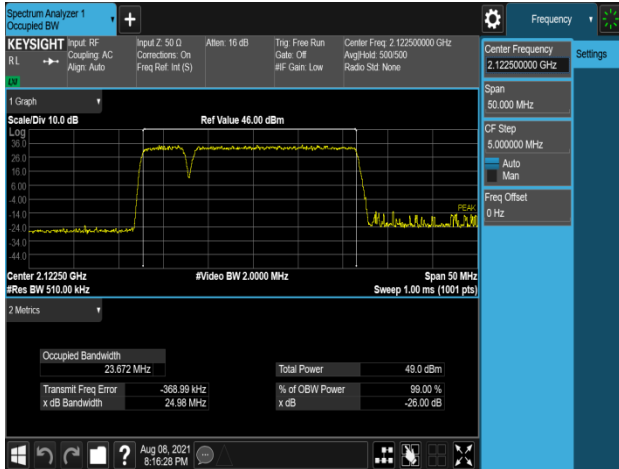


Plot 7-162. Occupied Bandwidth Plot  
(B66\_5M+5M\_2C\_16QAM - Mid Channel, Port 0)

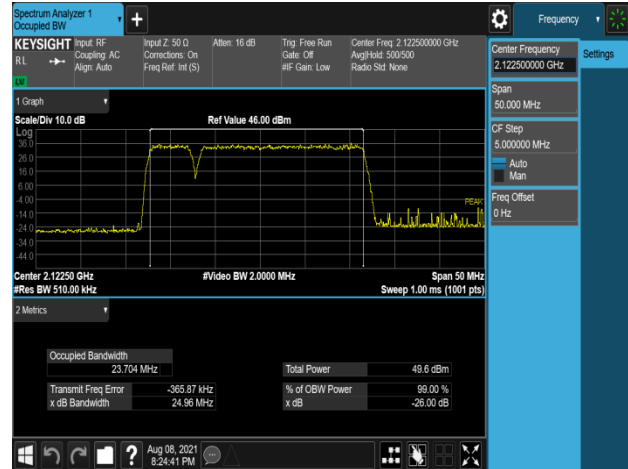
|  |   |                           |   |                                   |
|--|---|---------------------------|---|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |  | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021  | EUT Type:<br>RRU(RF4437d) |   | Page 52 of 430                    |



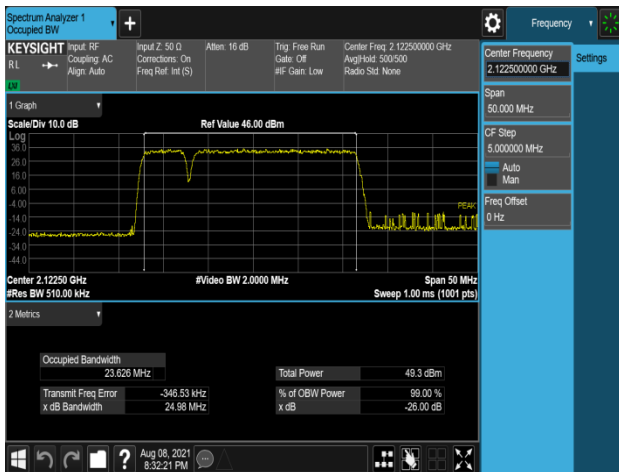
|   |   |                                  |   |  |
|---|---|----------------------------------|---|--|
| FCC ID: A3LRF4437D-25D                          |  | <b>MEASUREMENT REPORT</b>        |  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>8K21071202-02-R2.A3L | <b>Test Dates:</b><br>07/19/2021-08/18/2021   | <b>EUT Type:</b><br>RRU(RF4437d) |   | Page 53 of 430                           |



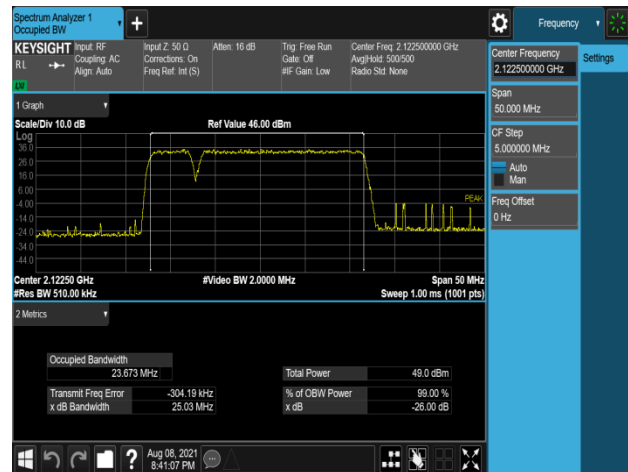
Plot 7-169. Occupied Bandwidth Plot  
(B66\_5M+20M\_2C\_QPSK - Low Channel, Port 2)



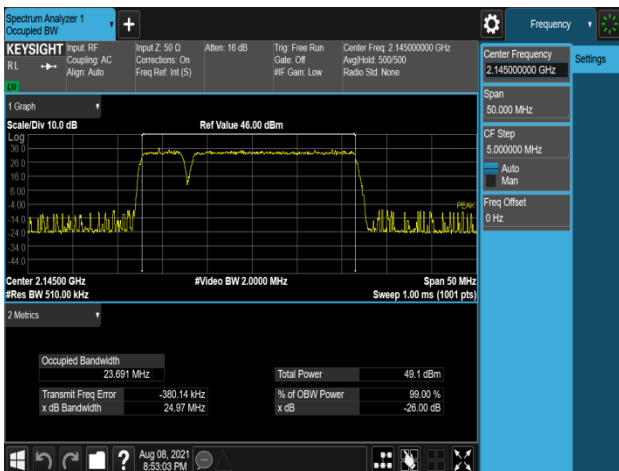
Plot 7-170. Occupied Bandwidth Plot  
(B66\_5M+20M\_2C\_16QAM - Low Channel, Port 2)



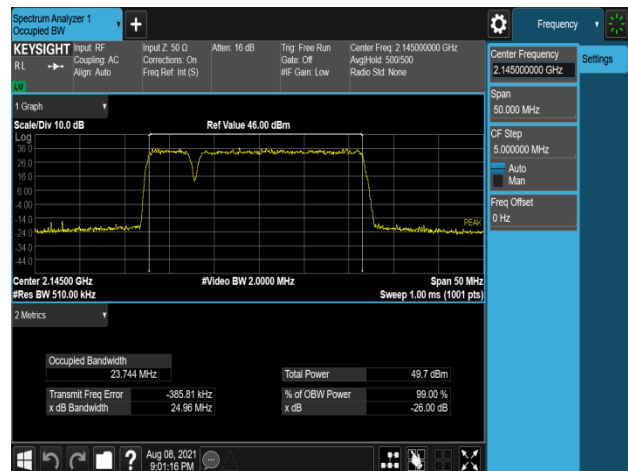
Plot 7-171. Occupied Bandwidth Plot  
(B66\_5M+20M\_2C\_64QAM - Low Channel, Port 0)



Plot 7-172. Occupied Bandwidth Plot  
(B66\_5M+20M\_2C\_256QAM - Low Channel, Port 2)

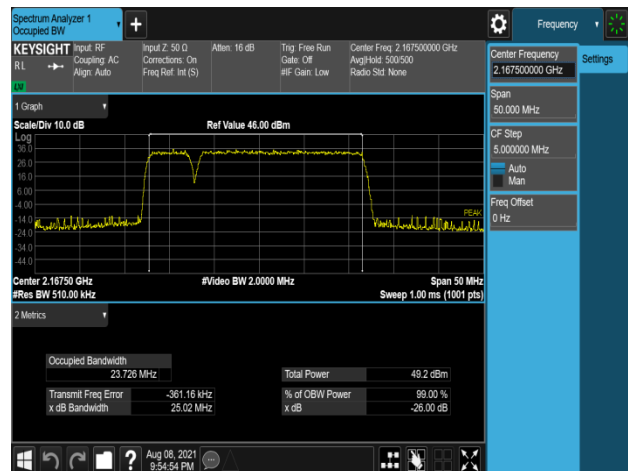
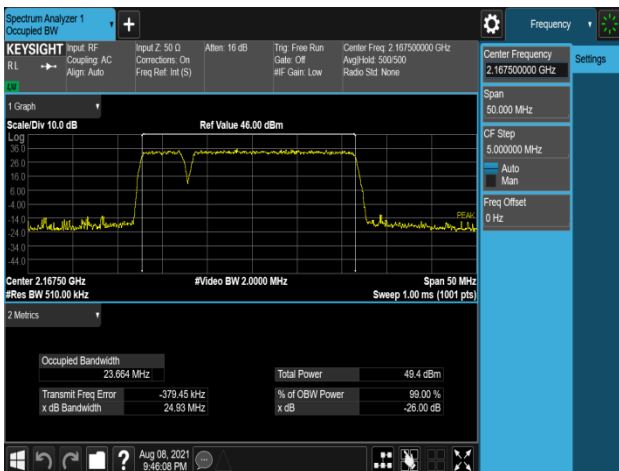
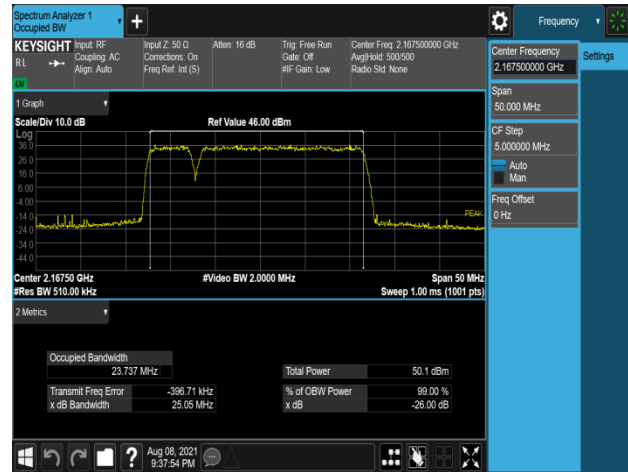
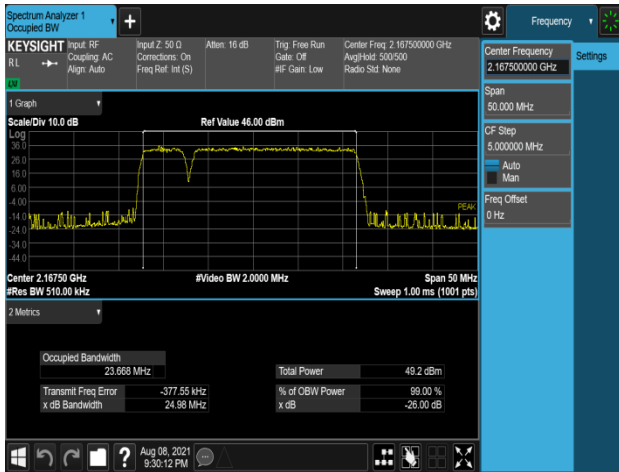
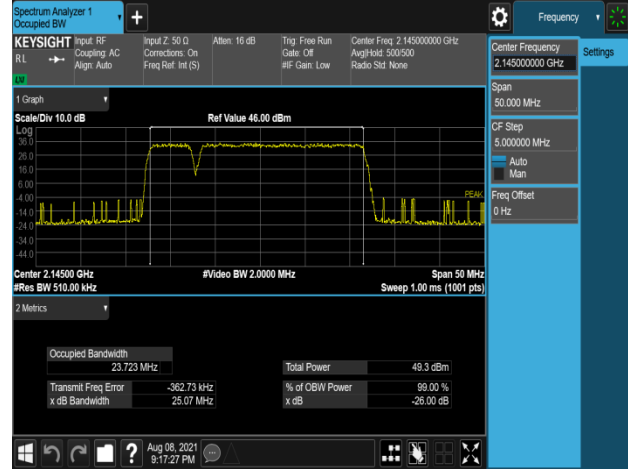
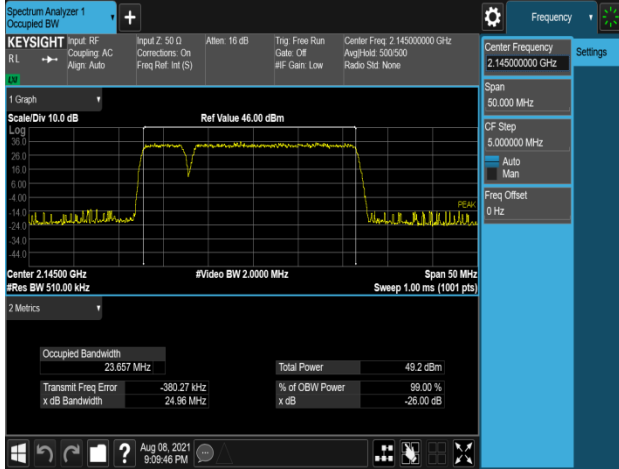




Plot 7-173. Occupied Bandwidth Plot  
(B66\_5M+20M\_2C\_QPSK - Mid Channel, Port 1)



Plot 7-174. Occupied Bandwidth Plot  
(B66\_5M+20M\_2C\_16QAM - Mid Channel, Port 1)

|  |                                      |                           |  |                                   |
|--|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: A3LRF4437D-25D                   |                                      | MEASUREMENT REPORT        |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K21071202-02-R2.A3L | Test Dates:<br>07/19/2021-08/18/2021 | EUT Type:<br>RRU(RF4437d) |  | Page 54 of 430                    |



|   |   |                                  |   |  |
|---|---|----------------------------------|---|--|
| FCC ID: A3LRF4437D-25D                          |  | <b>MEASUREMENT REPORT</b>        |  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>8K21071202-02-R2.A3L | <b>Test Dates:</b><br>07/19/2021-08/18/2021   | <b>EUT Type:</b><br>RRU(RF4437d) |   | Page 55 of 430                           |