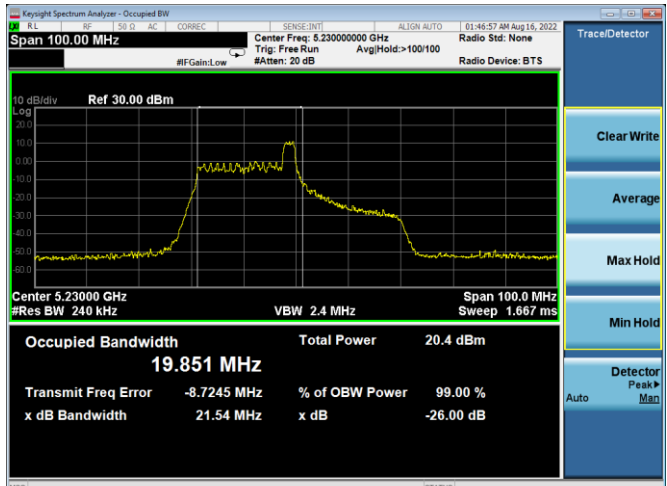
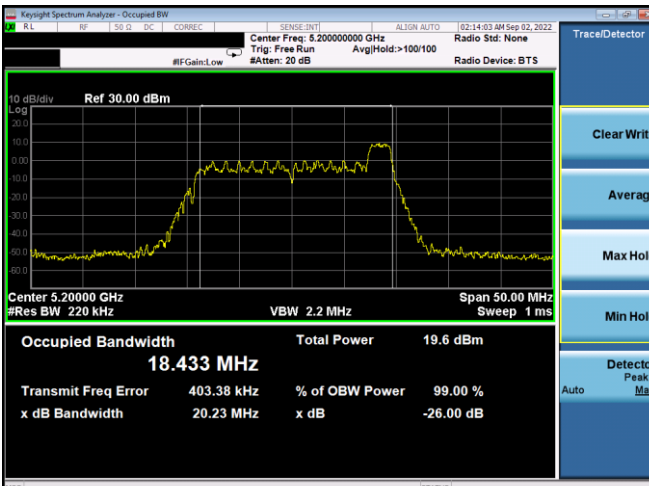
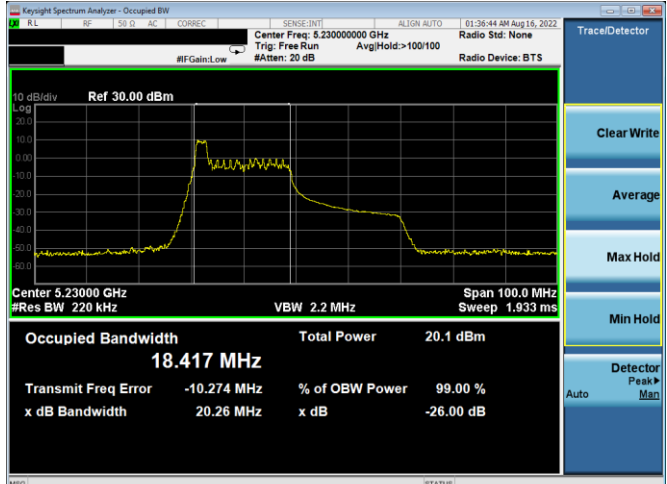
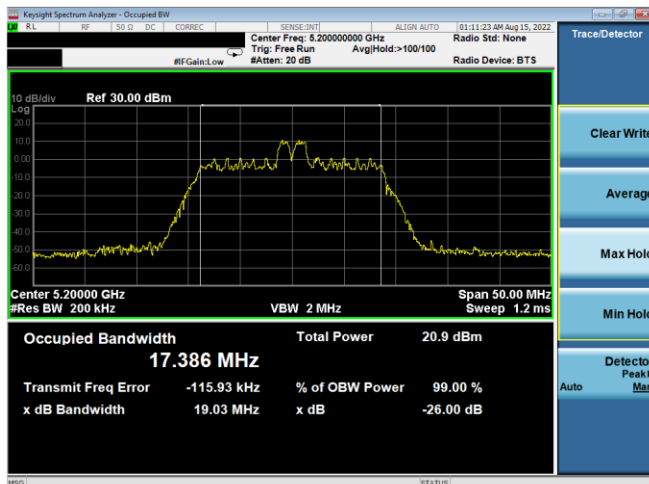
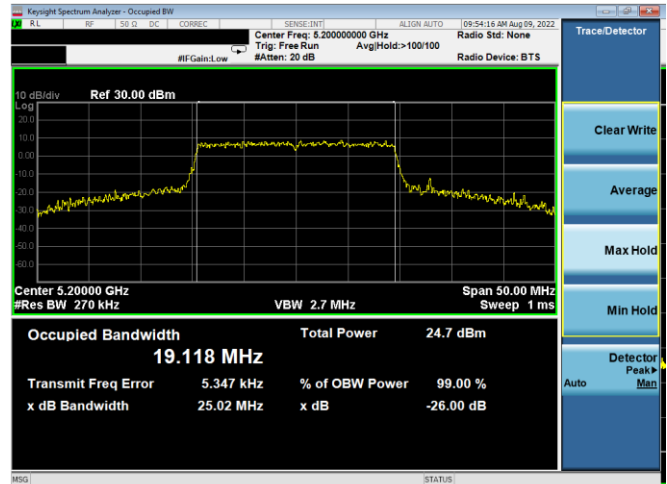
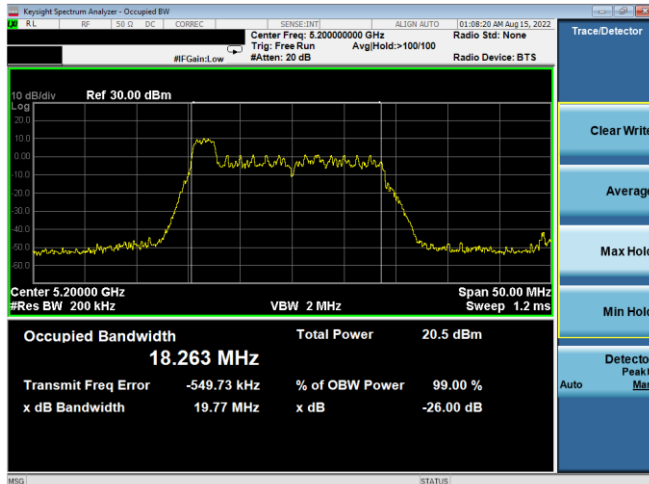
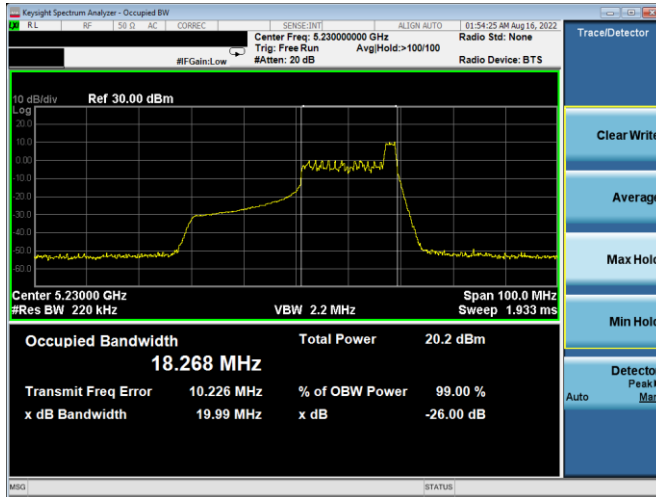
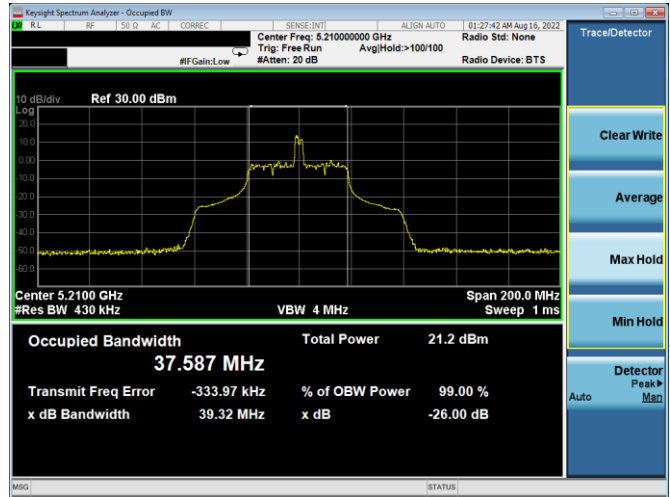




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|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090025-20.BCG | Test Dates:<br>05/30/2022-09/12/2022                                                | EUT Type:<br>Tablet Device            | Page 31 of 289                    |



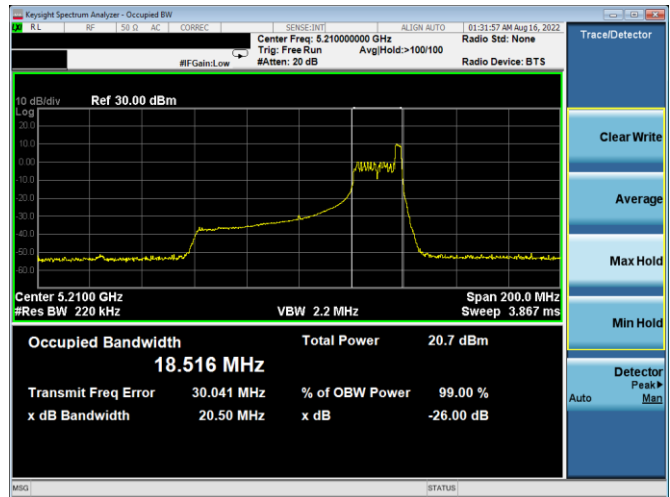
Plot 7-51. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 17 – RU26 – Ch.46)



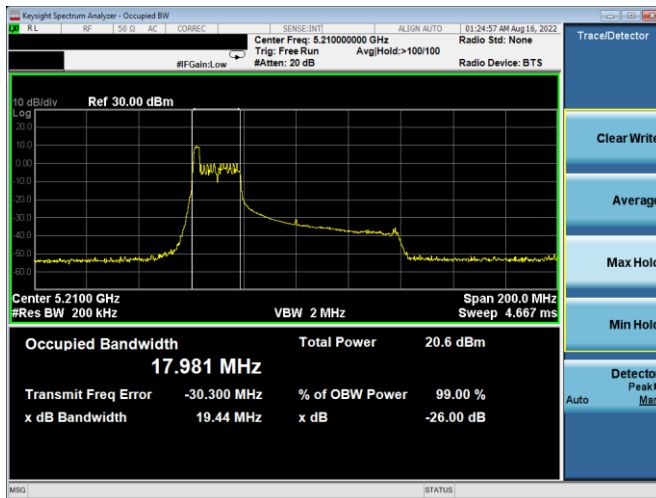
Plot 7-54. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 18 – RU26 – Ch.42)



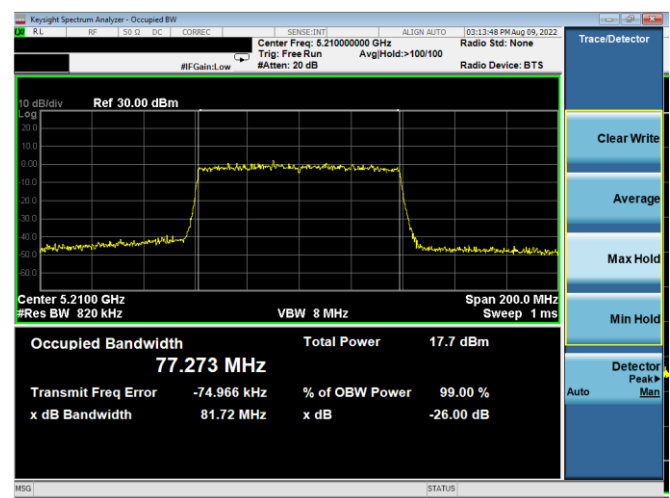
Plot 7-52. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax – RU484 – Ch.46)



Plot 7-55. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 36 – RU26 – Ch.42)

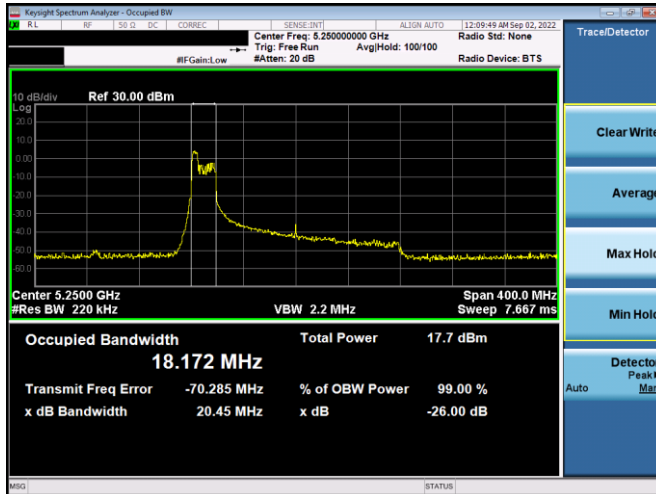


Plot 7-53. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 0 – RU26 – Ch.42)

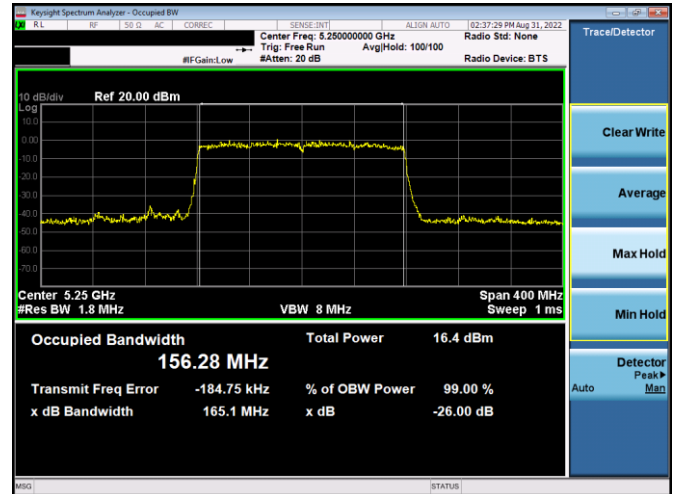


Plot 7-56. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax – RU996 – Ch.42)

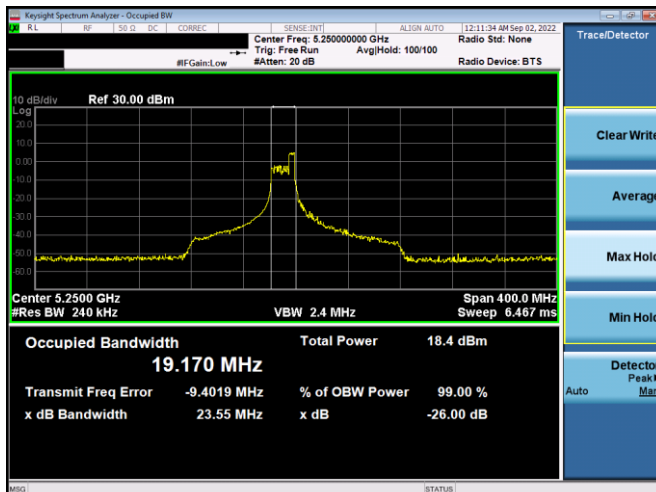
|                                         |                                                                                     |                                       |                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
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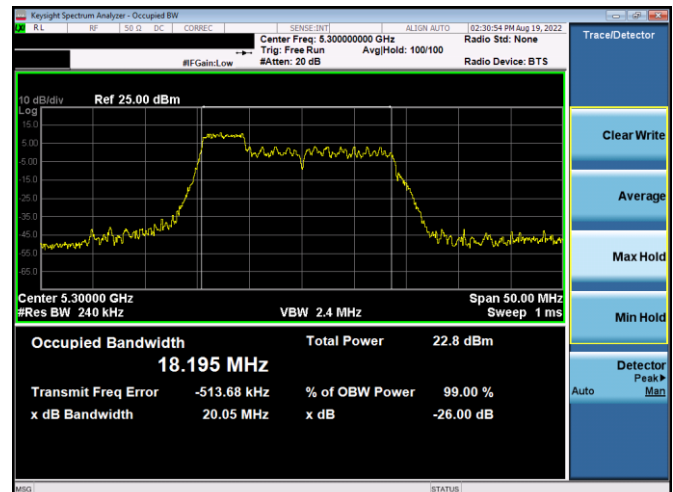
Plot 7-57. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax Index 37 – RU52 – Ch.50(L))



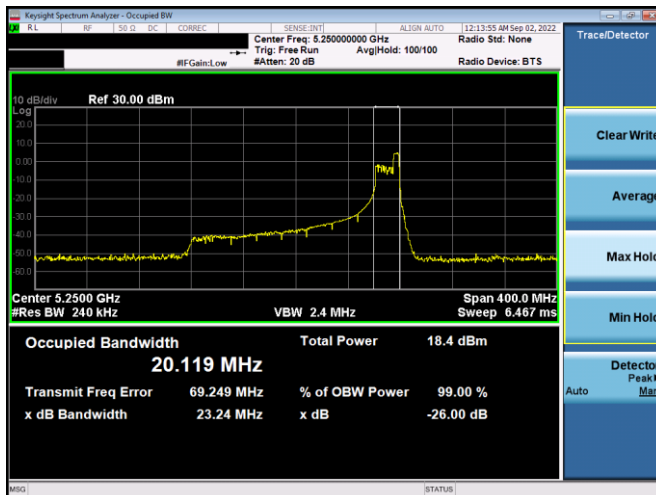
Plot 7-60. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax – RU996x2 – Ch.50)



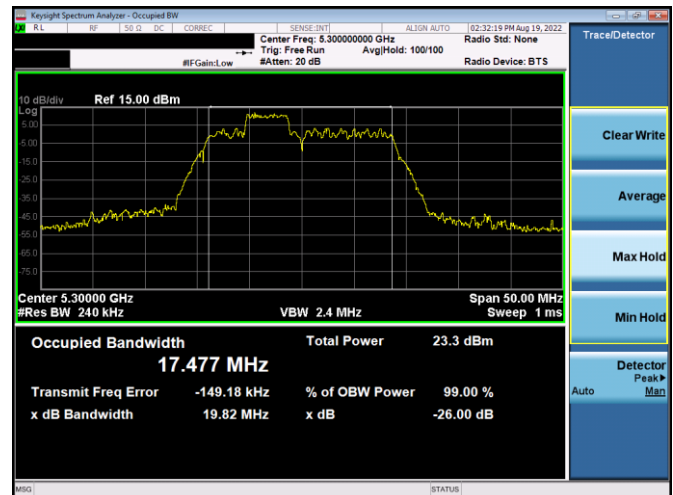
Plot 7-58. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax Index 52 – RU52 – Ch.50(L))



Plot 7-61. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax Index 37 – RU52 – Ch.60)



Plot 7-59. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax Index 52 – RU52 – Ch.50(U))

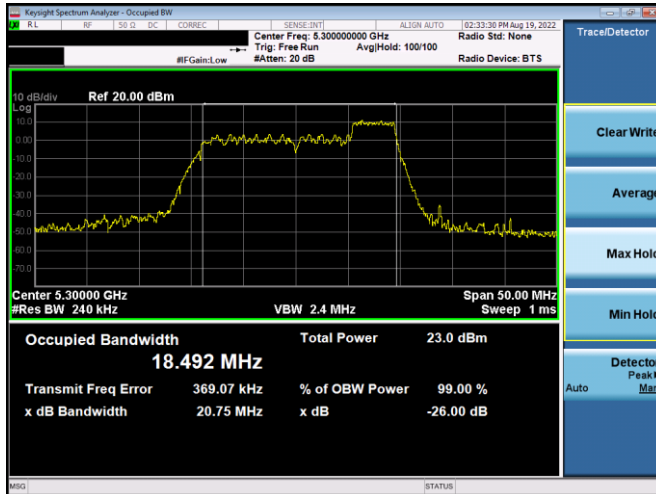


Plot 7-62. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax Index 38 – RU52 – Ch.60)

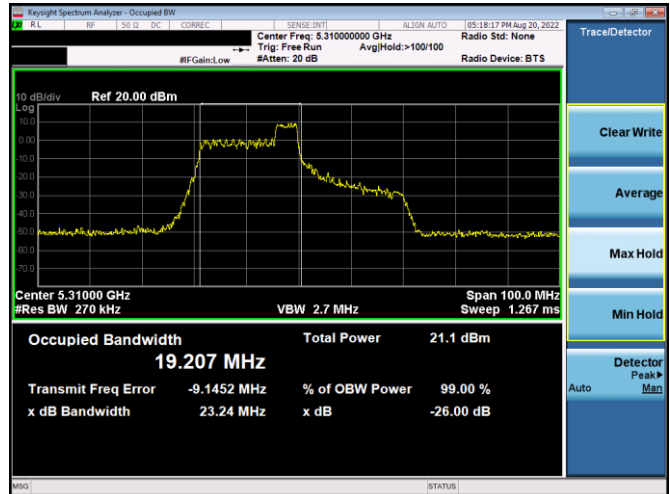
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|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
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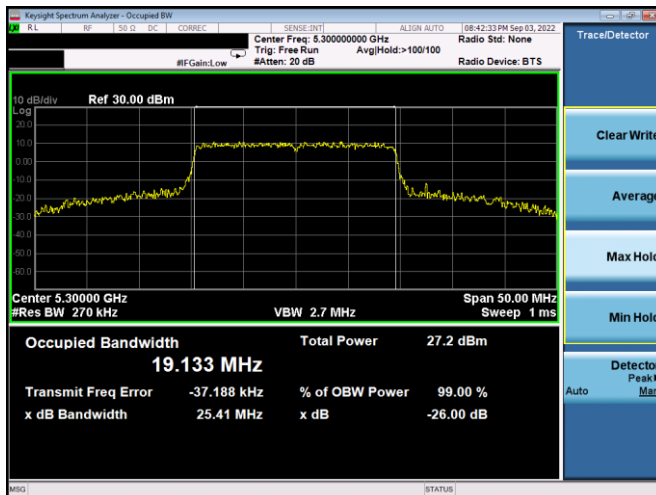
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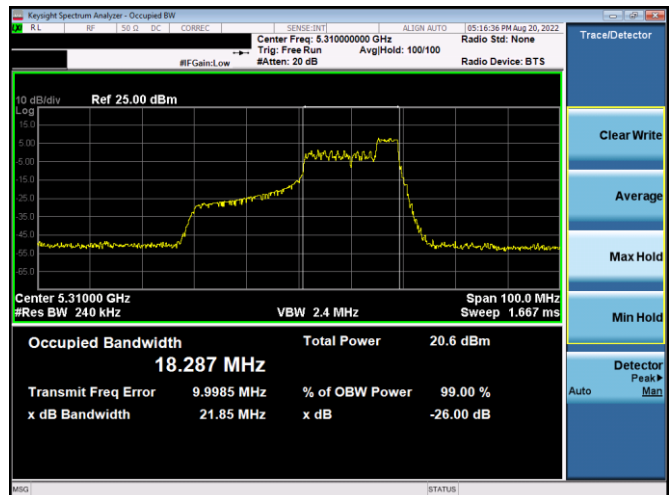
Plot 7-63. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax Index 40 - RU52 - Ch.60)



Plot 7-66. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 40 - RU52 - Ch.54)



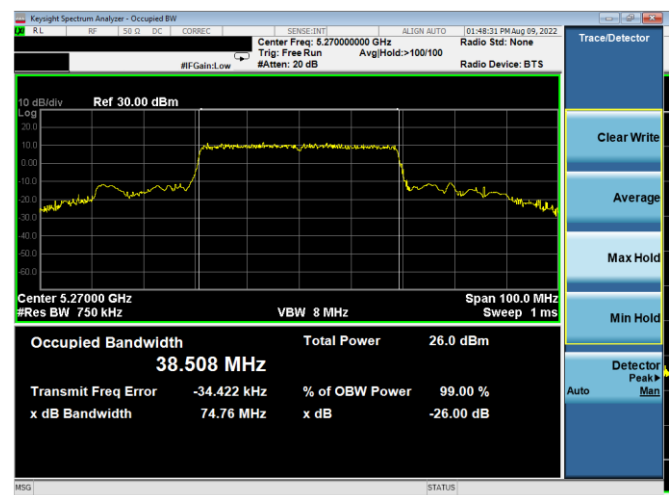
Plot 7-64. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax- RU242 - Ch.60)



Plot 7-67. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 44 - RU52 - Ch.54)



Plot 7-65. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 37 - RU52 - Ch.54)



Plot 7-68. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax - RU484 - Ch.54)

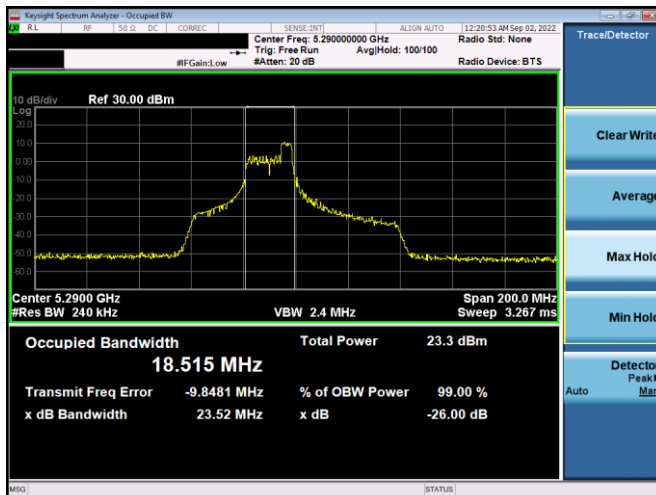
|                                         |                                                                                     |                                       |                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090025-20.BCG | Test Dates:<br>05/30/2022-09/12/2022                                                | EUT Type:<br>Tablet Device            | Page 34 of 289                    |



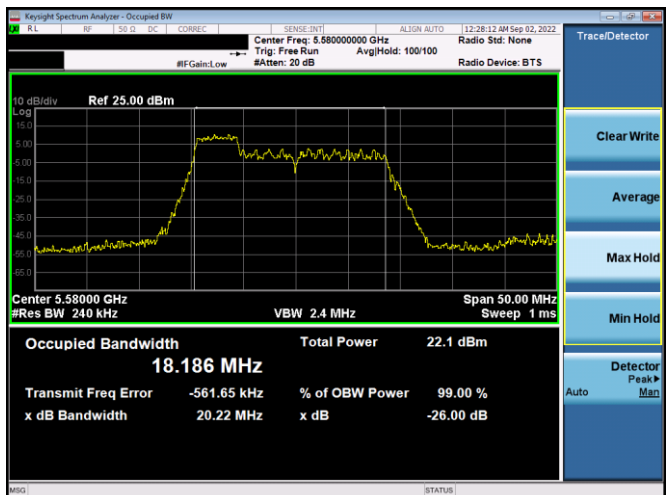
Plot 7-69. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 37 – RU52 – Ch.58)



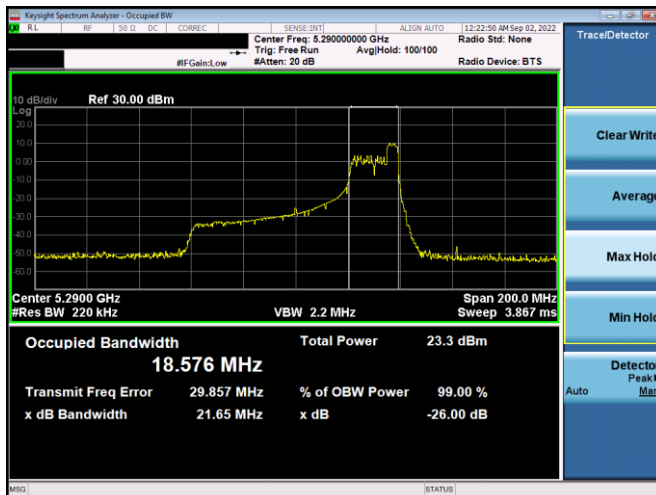
Plot 7-72. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax – RU996 – Ch.58)



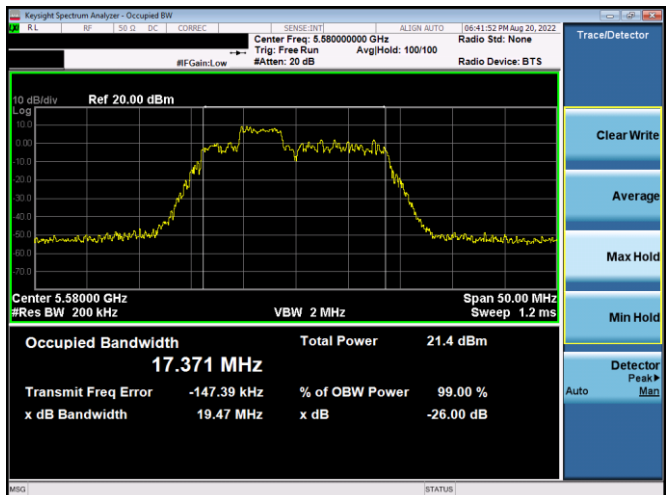
Plot 7-70. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 44 – RU52 – Ch.58)



Plot 7-73. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax Index 37 – RU52 – Ch.116)



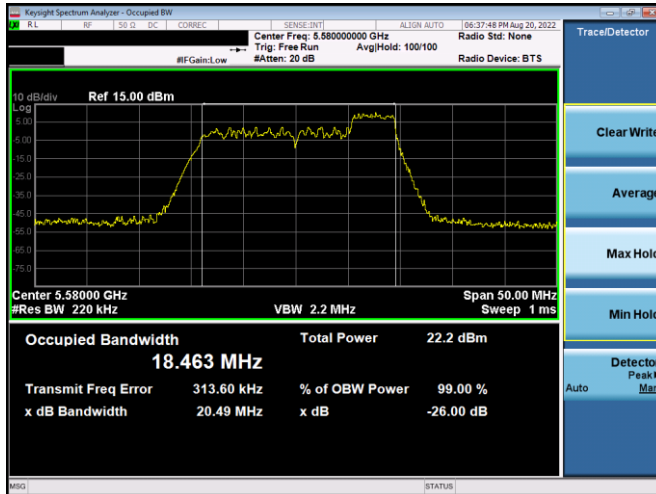
Plot 7-71. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 52 – RU52 – Ch.58)



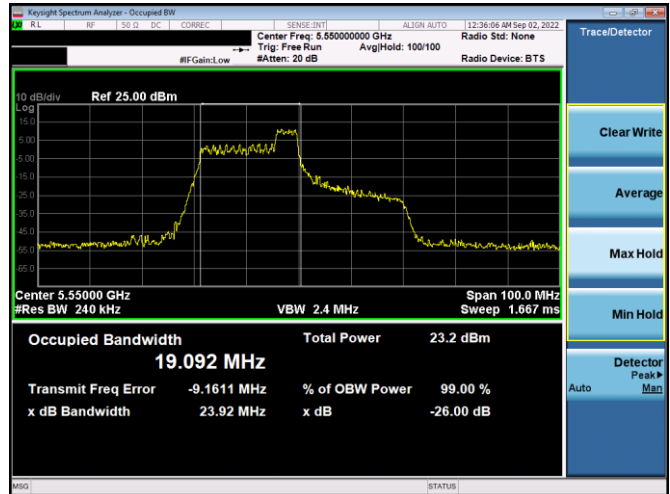
Plot 7-74. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax Index 38 – RU52 – Ch.116)

|                                         |                                                                                     |                                       |                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
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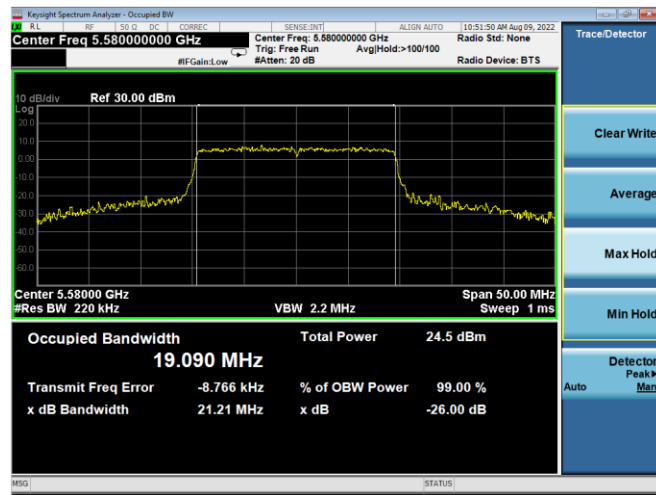




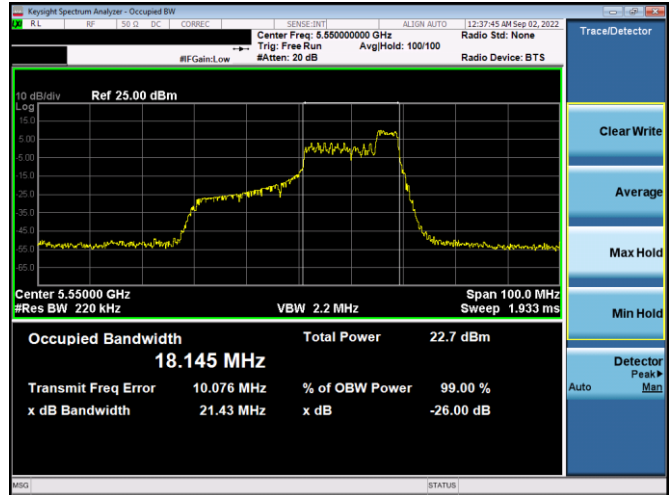
Plot 7-75. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax Index 40- RU52 - Ch.116)



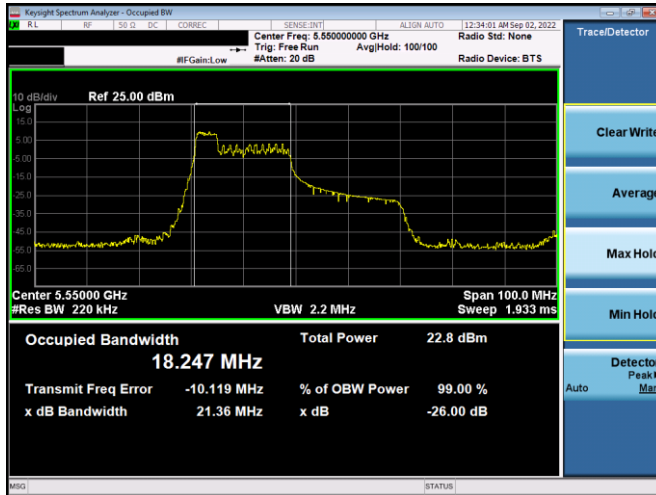
Plot 7-78. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 40 - RU52 - Ch.110)



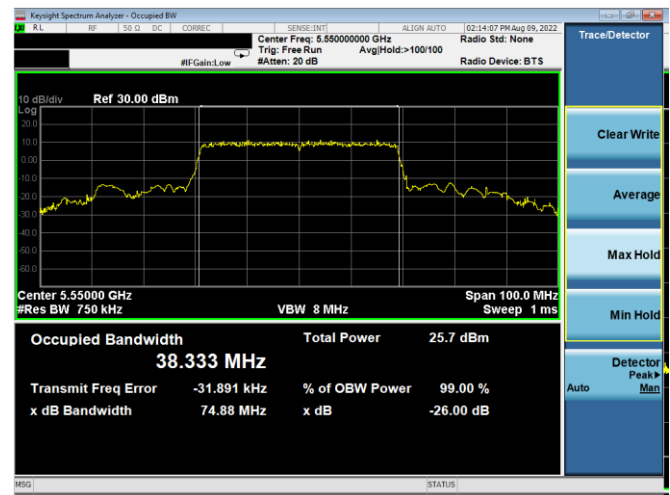
Plot 7-76. 26dB BW & 99% OBW Antenna WF4a (20MHz BW 11ax- RU242 - Ch.116)



Plot 7-79. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 44 - RU52 - Ch.110)



Plot 7-77. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax Index 37 - RU52 - Ch.110)



Plot 7-80. 26dB BW & 99% OBW Antenna WF4a (40MHz BW 11ax - RU484 - Ch.110)

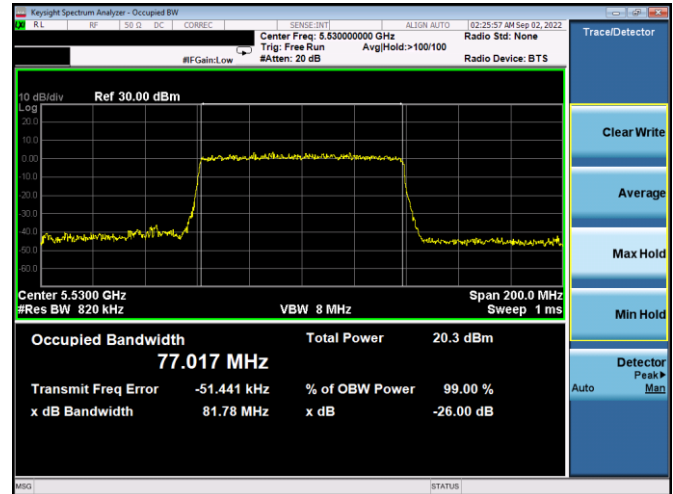
|                                         |                                                                                     |                                       |                                   |
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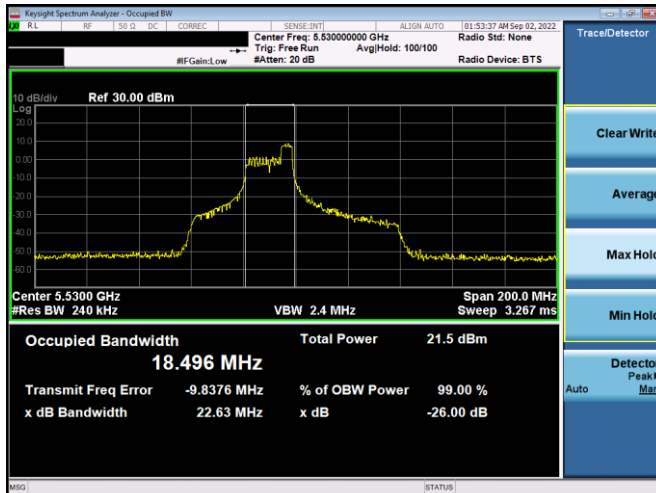
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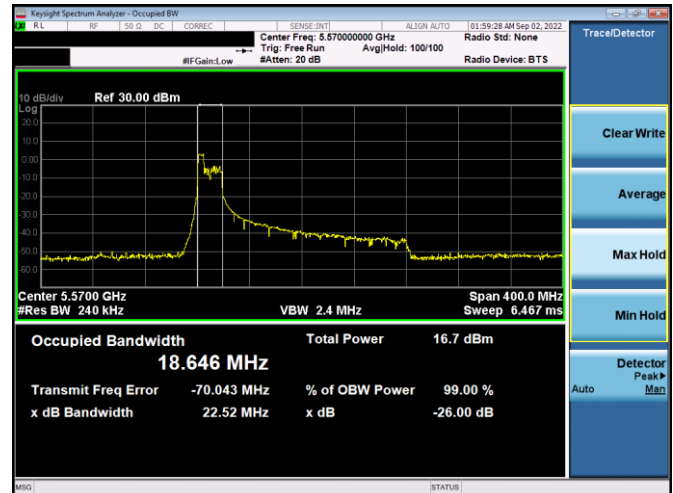
Plot 7-81. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 37 – RU52 – Ch.106)



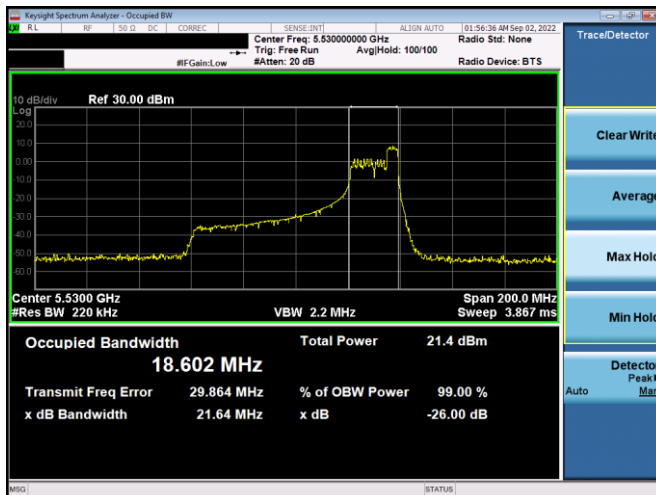
Plot 7-84. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax – RU996 – Ch.106)



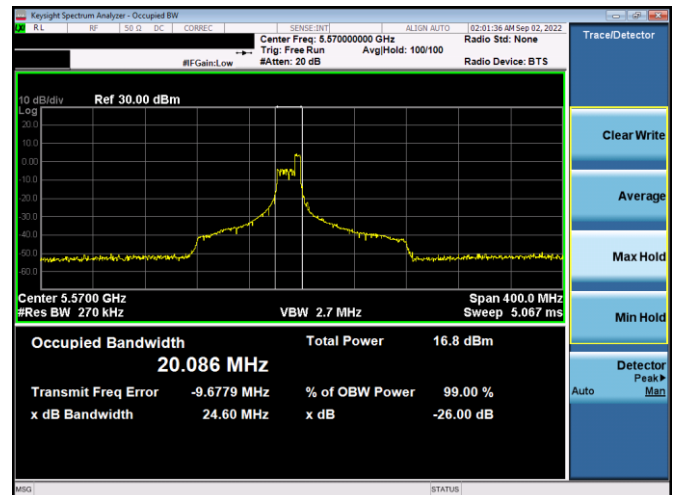
Plot 7-82. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 44 – RU52 – Ch.106)



Plot 7-85. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax Index 37 – RU52 – Ch.114)

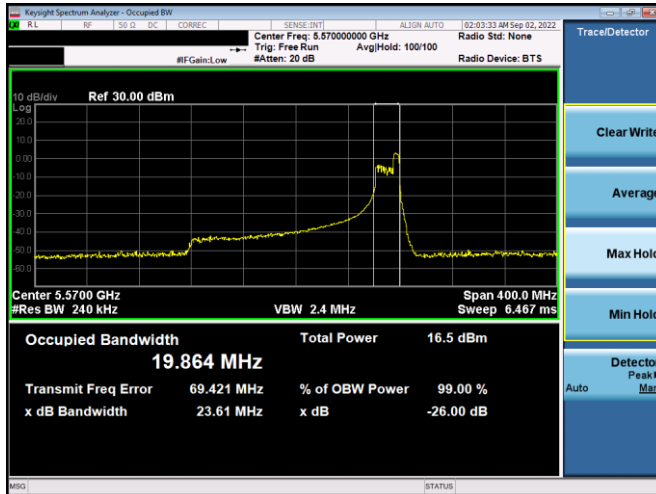


Plot 7-83. 26dB BW & 99% OBW Antenna WF4a (80MHz BW 11ax Index 52 – RU52 – Ch.106)

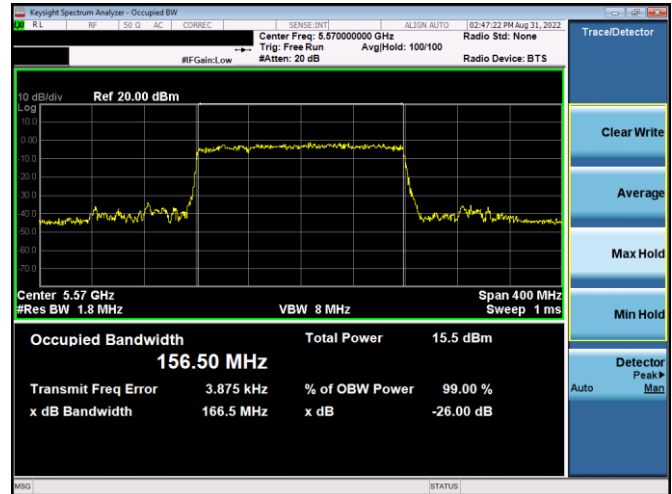


Plot 7-86. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax Index 52 – RU52 – Ch.114(L))

|                                         |                                                                                     |                                       |                                   |
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Plot 7-87. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax Index 52 – RU52 – Ch.114(U))



Plot 7-88. 26dB BW & 99% OBW Antenna WF4a (160MHz BW 11ax – RU996x2 – Ch.114)

|                                         |                                                                                     |                                       |                                   |
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### 7.3 6dB & 99% Bandwidth Measurement – 802.11ax OFDMA

§2.1049; §15.407 (e); RSS-Gen [6.7]

#### Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

***In the 5.725 – 5.850GHz band, the 6dB bandwidth must be  $\geq 500$  kHz.***

#### Test Procedure Used

ANSI C63.10-2013 – Subclause 6.9.2

KDB 789033 D02 v02r01 – Section C

#### Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100 kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

#### 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

1. All antenna configurations were investigated and only the worst case is reported
2. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's were reported.
3. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel bandwidth plots have been reported.

|                                         |                                                                                     |                                       |                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
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| Test Report S/N:<br>1C2205090025-20.BCG | Test Dates:<br>05/30/2022-09/12/2022                                                | EUT Type:<br>Tablet Device            | Page 39 of 289                    |

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## Antenna WF5b 6dB & 99% Bandwidth Measurements

|        | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured 99% Occupied Bandwidth [MHz] | Measured 6dB Bandwidth [MHz] | Minimum 6dB Bandwidth [MHz] | Pass / Fail |
|--------|-----------------|-------------|-------------|---------|----------|-------------------|---------------------------------------|------------------------------|-----------------------------|-------------|
| Band 3 | 5745            | 149         | ax (20MHz)  | 26      | 0        | 12.5/14.7 (MCS11) | 18.15                                 | 2.09                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 4        | 12.5/14.7 (MCS11) | 17.27                                 | 2.72                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 8        | 12.5/14.7 (MCS11) | 18.35                                 | 2.12                         | 0.50                        | Pass        |
|        | 5785            | 157         | ax (20MHz)  | 26      | 0        | 12.5/14.7 (MCS11) | 18.15                                 | 2.10                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 4        | 12.5/14.7 (MCS11) | 17.28                                 | 2.71                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 8        | 12.5/14.7 (MCS11) | 18.35                                 | 2.08                         | 0.50                        | Pass        |
|        | 5825            | 165         | ax (20MHz)  | 26      | 0        | 12.5/14.7 (MCS11) | 18.15                                 | 2.09                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 4        | 12.5/14.7 (MCS11) | 17.29                                 | 2.71                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 8        | 12.5/14.7 (MCS11) | 18.33                                 | 2.10                         | 0.50                        | Pass        |
|        | 5755            | 151         | ax (40MHz)  | 26      | 0        | 12.5/14.7 (MCS11) | 17.93                                 | 2.13                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 8        | 12.5/14.7 (MCS11) | 18.83                                 | 2.12                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 17       | 12.5/14.7 (MCS11) | 17.96                                 | 2.13                         | 0.50                        | Pass        |
|        | 5795            | 159         | ax (40MHz)  | 26      | 0        | 12.5/14.7 (MCS11) | 17.99                                 | 2.18                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 8        | 12.5/14.7 (MCS11) | 18.95                                 | 2.15                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 17       | 12.5/14.7 (MCS11) | 17.98                                 | 2.09                         | 0.50                        | Pass        |
|        | 5775            | 155         | ax (80MHz)  | 26      | 0        | 12.5/14.7 (MCS11) | 17.75                                 | 2.21                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 18       | 12.5/14.7 (MCS11) | 36.71                                 | 2.85                         | 0.50                        | Pass        |
|        |                 |             |             | 26      | 36       | 12.5/14.7 (MCS11) | 17.98                                 | 2.30                         | 0.50                        | Pass        |

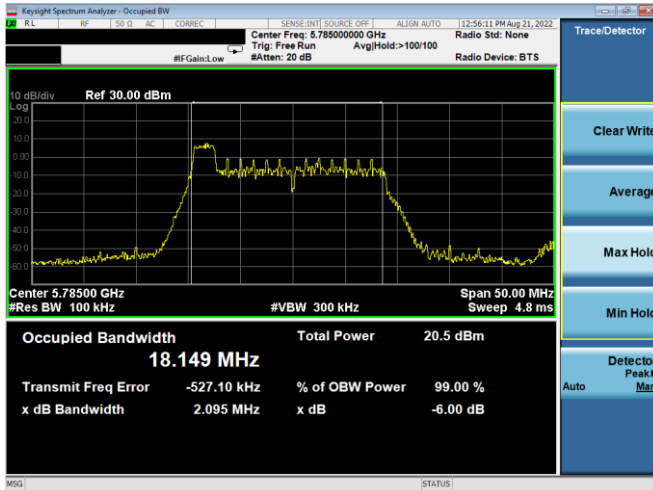
**Table 7-8. Conducted Bandwidth Measurements Antenna WF5b (RU26)**

|        | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]    | Measured 99% Occupied Bandwidth [MHz] | Measured 6dB Bandwidth [MHz] | Minimum 6dB Bandwidth [MHz] | Pass / Fail |
|--------|-----------------|-------------|-------------|---------|----------|---------------------|---------------------------------------|------------------------------|-----------------------------|-------------|
| Band 3 | 5745            | 149         | ax (20MHz)  | 242     | 61       | 121.9/143.4 (MCS11) | 19.01                                 | 19.06                        | 0.50                        | Pass        |
|        | 5785            | 157         | ax (20MHz)  | 242     | 61       | 121.9/143.4 (MCS11) | 18.94                                 | 19.02                        | 0.50                        | Pass        |
|        | 5825            | 165         | ax (20MHz)  | 242     | 61       | 121.9/143.4 (MCS11) | 19.01                                 | 19.11                        | 0.50                        | Pass        |
|        | 5755            | 151         | ax (40MHz)  | 484     | 65       | 243.8/286.8 (MCS11) | 37.90                                 | 38.14                        | 0.50                        | Pass        |
|        | 5795            | 159         | ax (40MHz)  | 484     | 65       | 243.8/286.8 (MCS11) | 38.20                                 | 38.36                        | 0.50                        | Pass        |
|        | 5775            | 155         | ax (80MHz)  | 996     | 67       | 510.4/600.5 (MCS11) | 77.35                                 | 78.01                        | 0.50                        | Pass        |

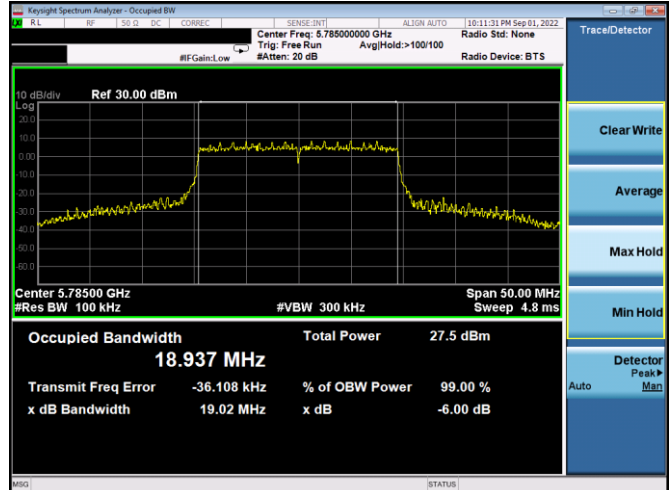
**Table 7-9. Conducted Bandwidth Measurements Antenna WF5b (Fully- loaded RU)**

|                                         |                                                                                                                               |                            |                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090025-20.BCG | Test Dates:<br>05/30/2022-09/12/2022                                                                                          | EUT Type:<br>Tablet Device | Page 40 of 289                    |

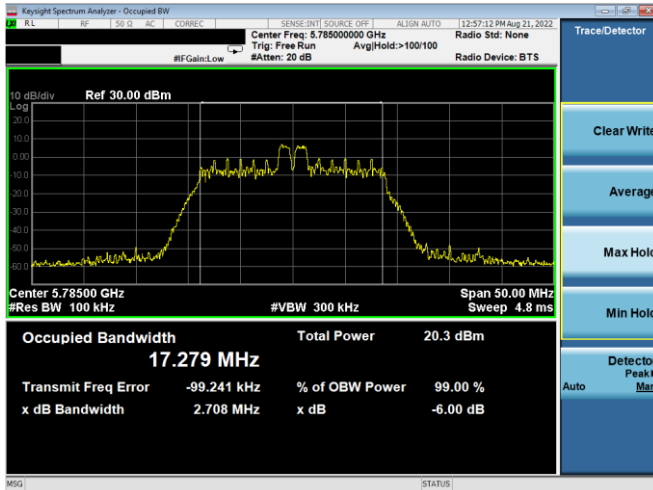
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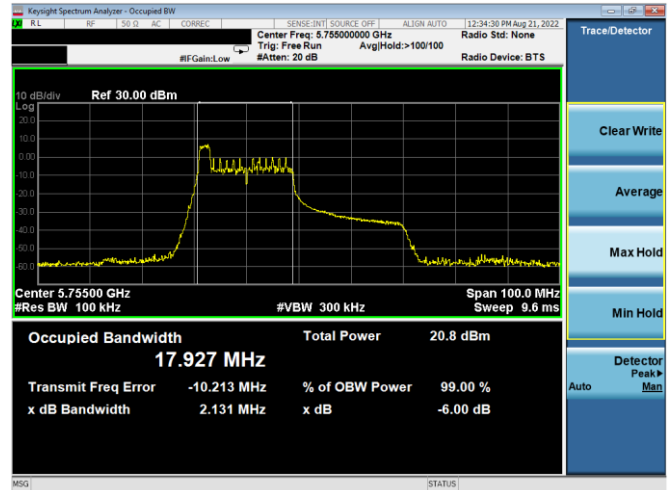
Plot 7-89. 6dB BW & 99% OBW Antenna WF5b (20MHz BW 11ax Index 0 – RU26 – Ch.157)



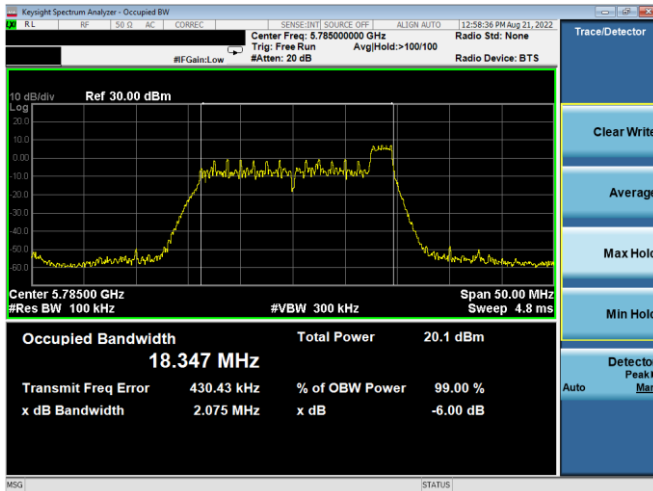
Plot 7-92. 6dB BW & 99% OBW Antenna WF5b (20MHz BW 11ax – RU242 – Ch.157)



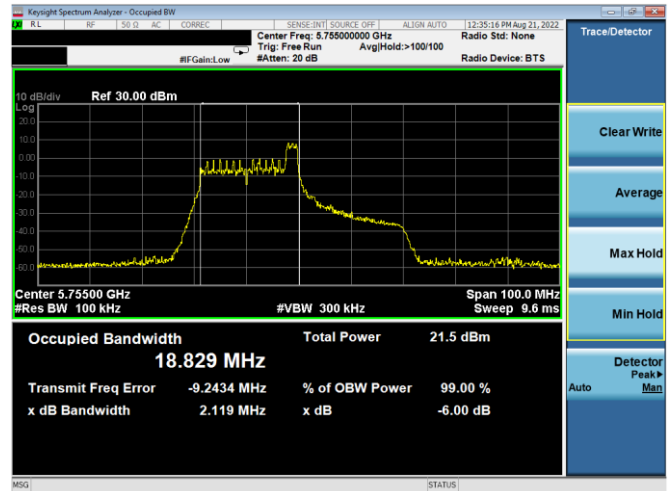
Plot 7-90. 6dB BW & 99% OBW Antenna WF5b (20MHz BW 11ax Index 4 – RU26 – Ch.157)



Plot 7-93. 6dB BW & 99% OBW Antenna WF5b (40MHz BW 11ax Index 0 – RU26 – Ch.151)



Plot 7-91. 6dB BW & 99% OBW Antenna WF5b (20MHz BW 11ax Index 8– RU26 – Ch.157)



Plot 7-94. 6dB BW & 99% OBW Antenna WF5b (40MHz BW 11ax Index 8 – RU26 – Ch.151)

|                                         |                                                                                     |                                       |                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2435<br>IC: 579C-A2435      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090025-20.BCG | Test Dates:<br>05/30/2022-09/12/2022                                                | EUT Type:<br>Tablet Device            | Page 41 of 289                    |

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