



## Appendix D for SHEM181100075004

## 1.(26dB)Emission Bandwidth Measurement

| Test Mode | Test Channel | Ant  | (26dB)EBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------------|------------|---------|
| 11A       | 5180         | Ant1 | 20.97          | ---        | PASS    |
| 11A       | 5220         | Ant1 | 20.20          | ---        | PASS    |
| 11A       | 5240         | Ant1 | 20.80          | ---        | PASS    |
| 11A       | 5745         | Ant1 | 20.34          | ---        | PASS    |
| 11A       | 5785         | Ant1 | 22.31          | ---        | PASS    |
| 11A       | 5825         | Ant1 | 18.63          | ---        | PASS    |
| 11N20     | 5180         | Ant1 | 20.58          | ---        | PASS    |
| 11N20     | 5220         | Ant1 | 20.19          | ---        | PASS    |
| 11N20     | 5240         | Ant1 | 20.50          | ---        | PASS    |
| 11N20     | 5745         | Ant1 | 20.54          | ---        | PASS    |
| 11N20     | 5785         | Ant1 | 19.82          | ---        | PASS    |
| 11N20     | 5825         | Ant1 | 19.90          | ---        | PASS    |
| 11N40     | 5190         | Ant1 | 40.86          | ---        | PASS    |
| 11N40     | 5230         | Ant1 | 40.44          | ---        | PASS    |
| 11N40     | 5755         | Ant1 | 40.36          | ---        | PASS    |
| 11N40     | 5795         | Ant1 | 40.08          | ---        | PASS    |
| 11AC20    | 5180         | Ant1 | 20.57          | ---        | PASS    |
| 11AC20    | 5220         | Ant1 | 20.08          | ---        | PASS    |
| 11AC20    | 5240         | Ant1 | 20.20          | ---        | PASS    |
| 11AC20    | 5745         | Ant1 | 20.77          | ---        | PASS    |
| 11AC20    | 5785         | Ant1 | 19.68          | ---        | PASS    |
| 11AC20    | 5825         | Ant1 | 20.33          | ---        | PASS    |
| 11AC40    | 5190         | Ant1 | 40.32          | ---        | PASS    |
| 11AC40    | 5230         | Ant1 | 40.66          | ---        | PASS    |
| 11AC40    | 5755         | Ant1 | 40.53          | ---        | PASS    |
| 11AC40    | 5795         | Ant1 | 40.55          | ---        | PASS    |
| 11AC80    | 5210         | Ant1 | 80.99          | ---        | PASS    |
| 11AC80    | 5775         | Ant1 | 81.84          | ---        | PASS    |

(26dB)Emission Bandwidth Measurement\_11A\_5180\_Ant1



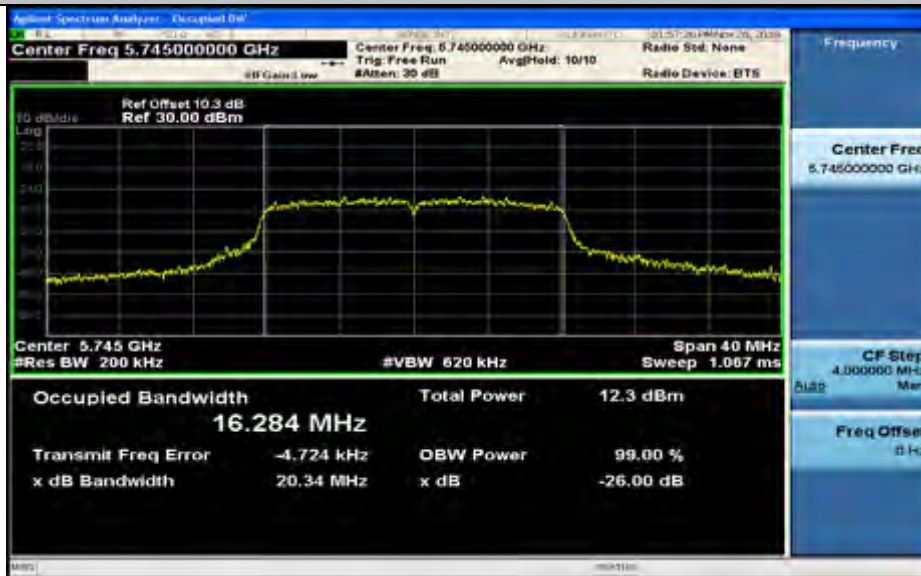
(26dB)Emission Bandwidth Measurement\_11A\_5220\_Ant1



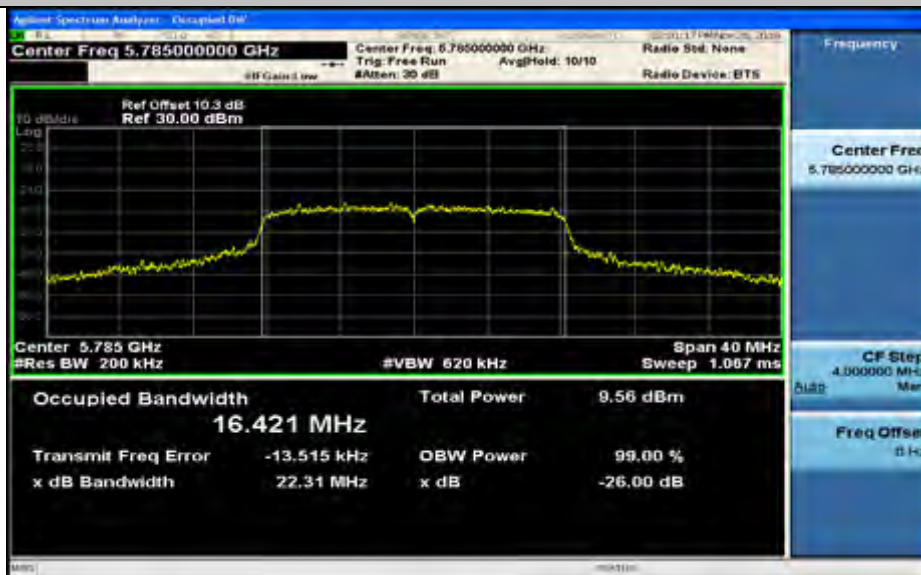
(26dB)Emission Bandwidth Measurement\_11A\_5240\_Ant1



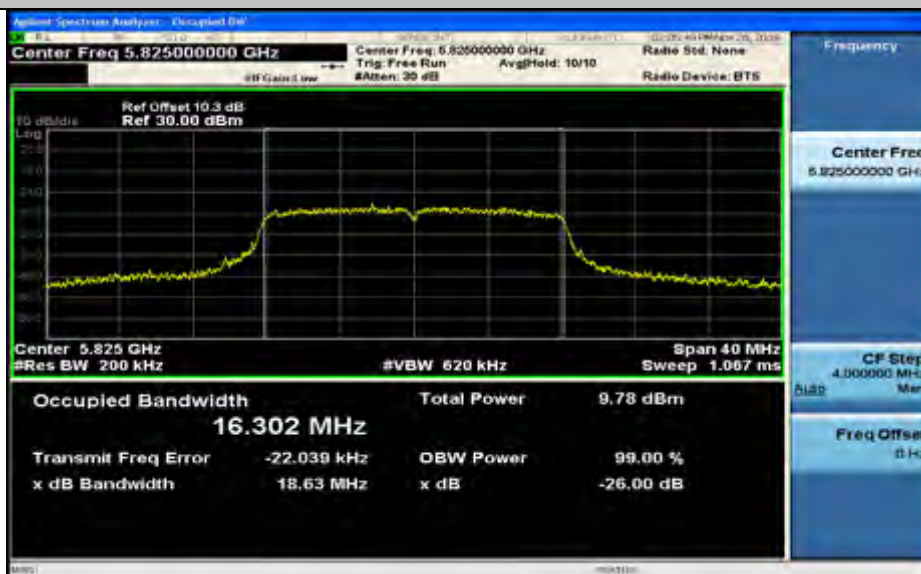
(26dB)Emission Bandwidth Measurement\_11A\_5745\_Ant1



(26dB)Emission Bandwidth Measurement\_11A\_5785\_Ant1



(26dB)Emission Bandwidth Measurement\_11A\_5825\_Ant1

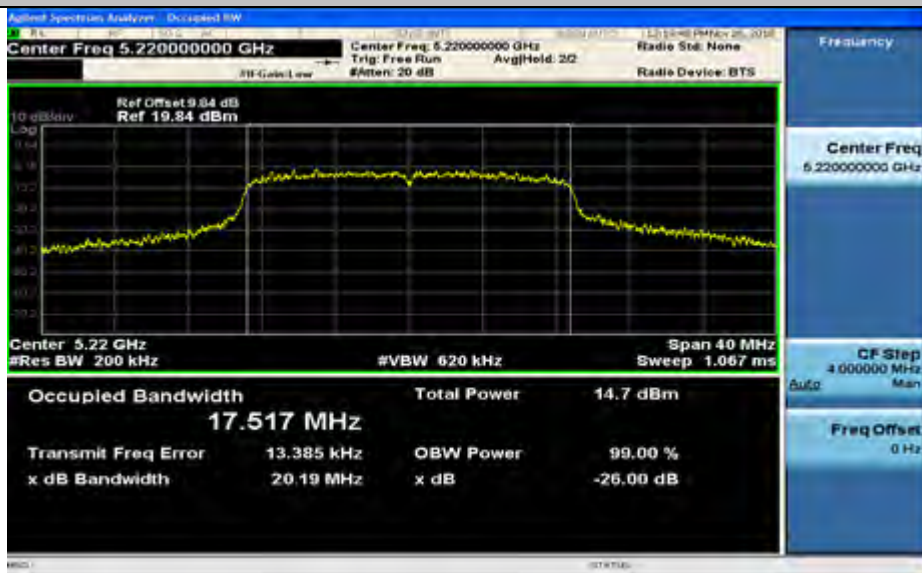




(26dB)Emission Bandwidth Measurement\_11N20\_5180\_Ant1



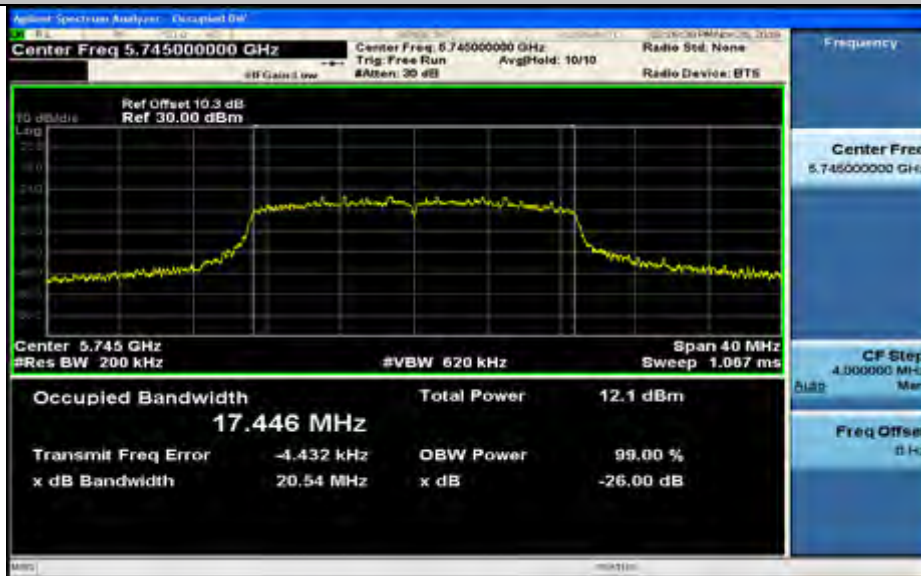
(26dB)Emission Bandwidth Measurement\_11N20\_5220\_Ant1



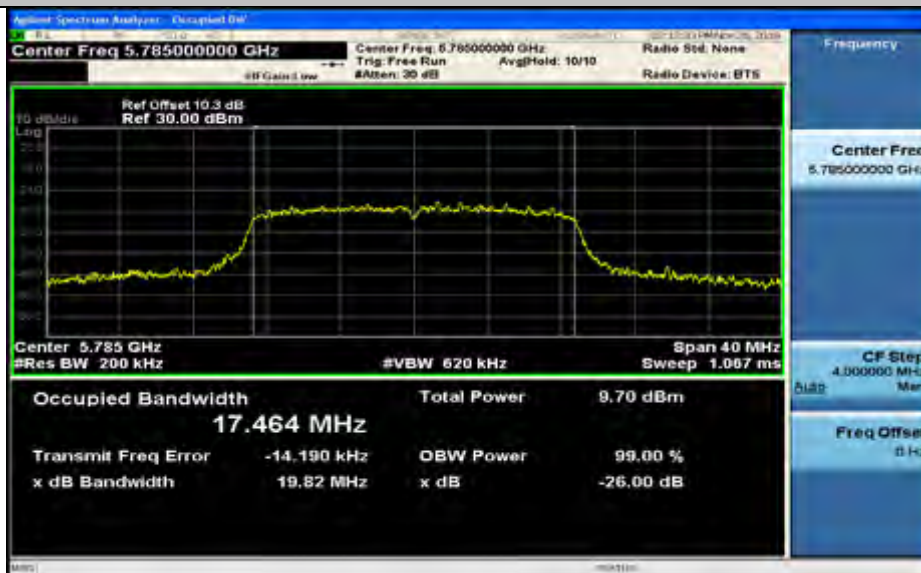
(26dB)Emission Bandwidth Measurement\_11N20\_5240\_Ant1



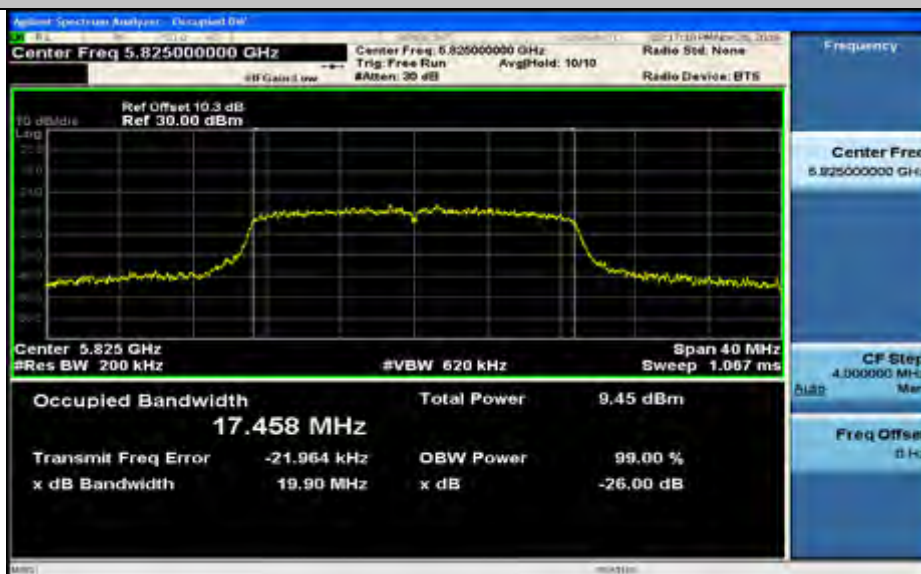
(26dB)Emission Bandwidth Measurement\_11N20\_5745\_Ant1



(26dB)Emission Bandwidth Measurement\_11N20\_5785\_Ant1

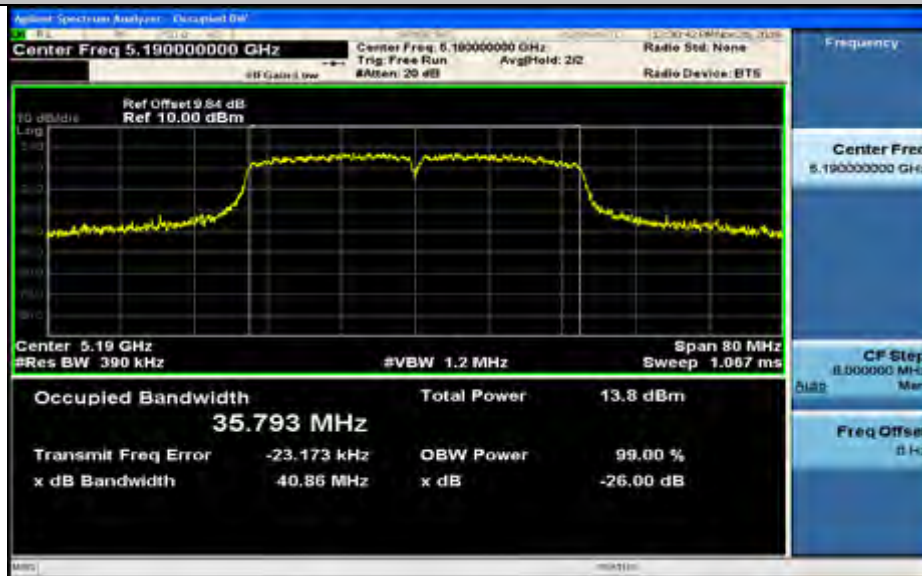


(26dB)Emission Bandwidth Measurement\_11N20\_5825\_Ant1

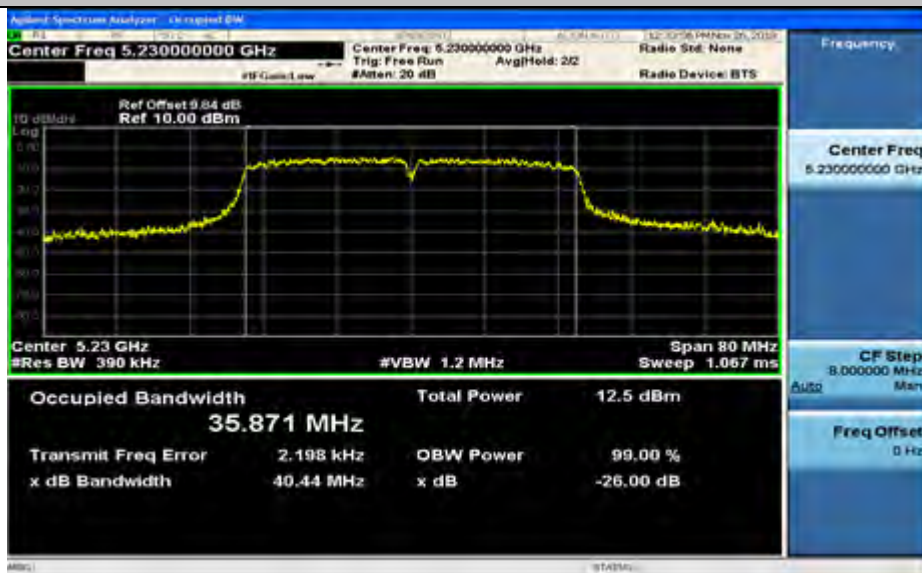




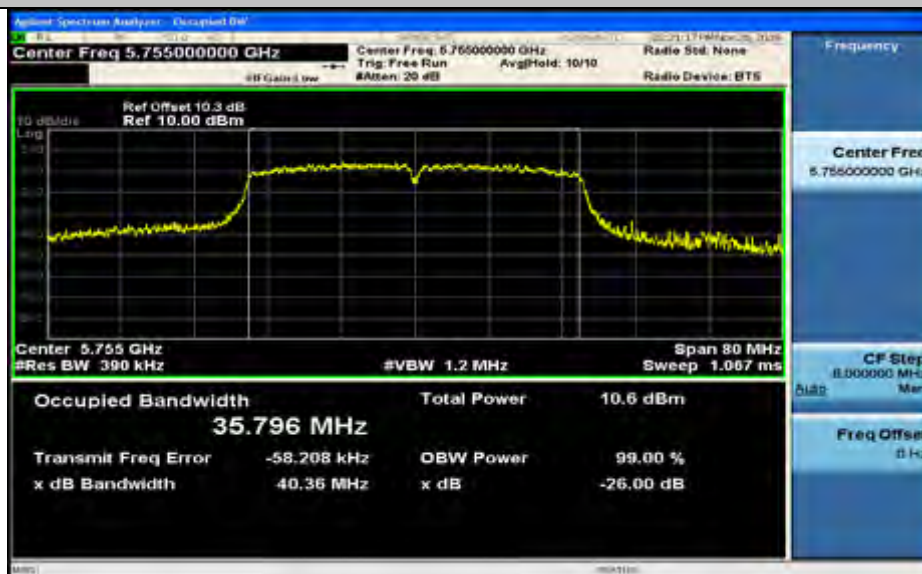
(26dB)Emission Bandwidth Measurement\_11N40\_5190\_Ant1



(26dB)Emission Bandwidth Measurement\_11N40\_5230\_Ant1



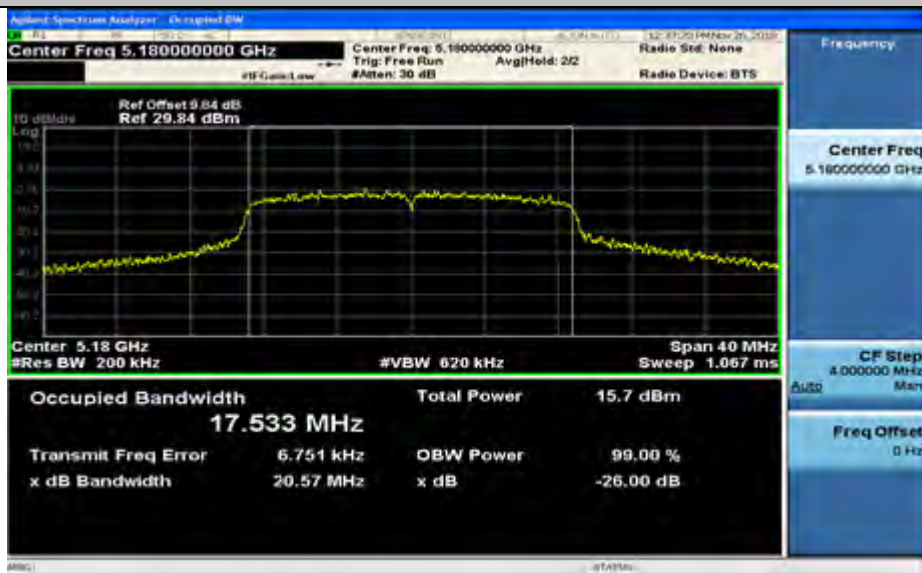
(26dB)Emission Bandwidth Measurement\_11N40\_5755\_Ant1



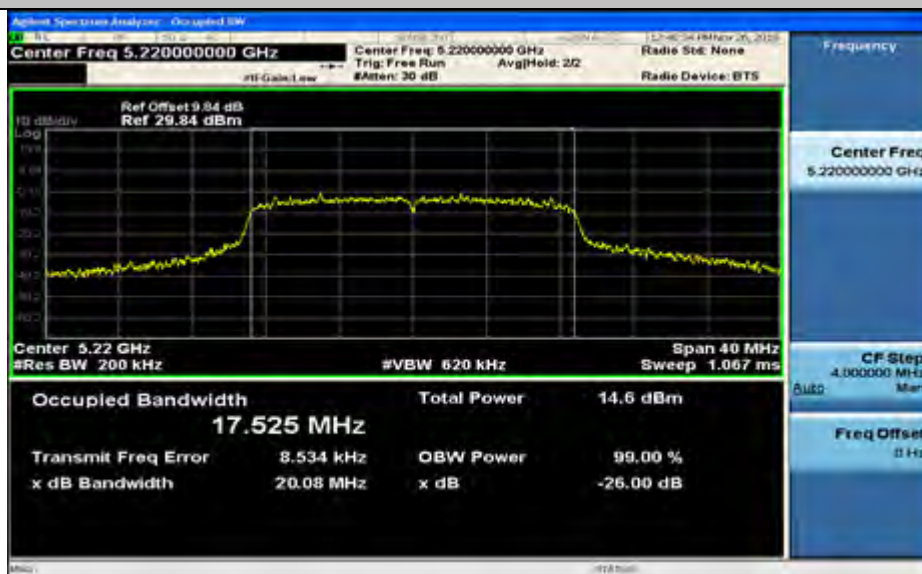
(26dB)Emission Bandwidth Measurement\_11N40\_5795\_Ant1



(26dB)Emission Bandwidth Measurement\_11AC20\_5180\_Ant1

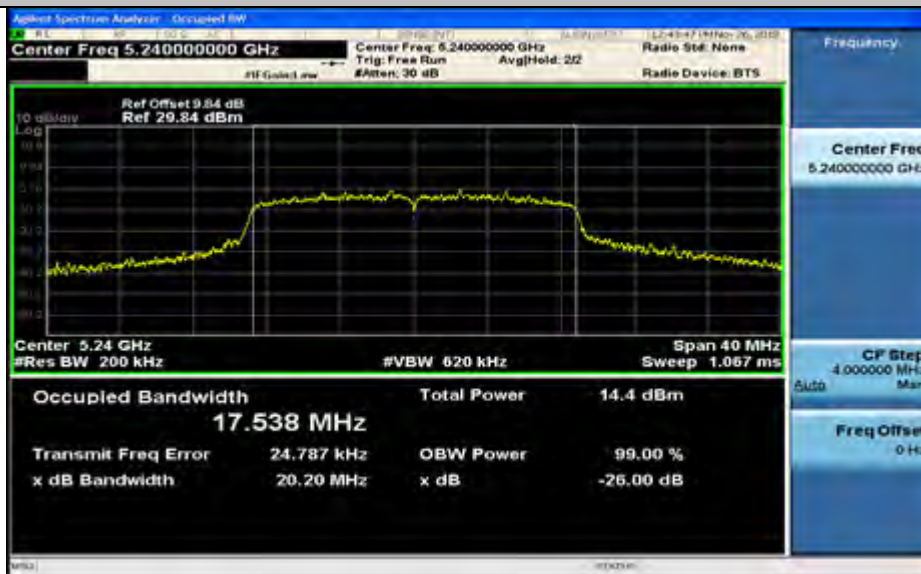


(26dB)Emission Bandwidth Measurement\_11AC20\_5220\_Ant1

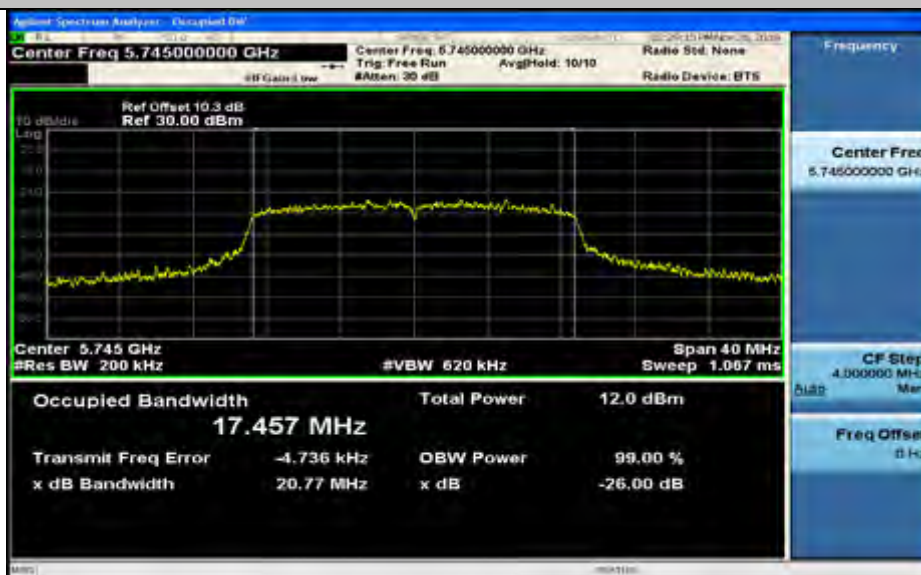




(26dB)Emission Bandwidth Measurement\_11AC20\_5240\_Ant1



(26dB)Emission Bandwidth Measurement\_11AC20\_5745\_Ant1

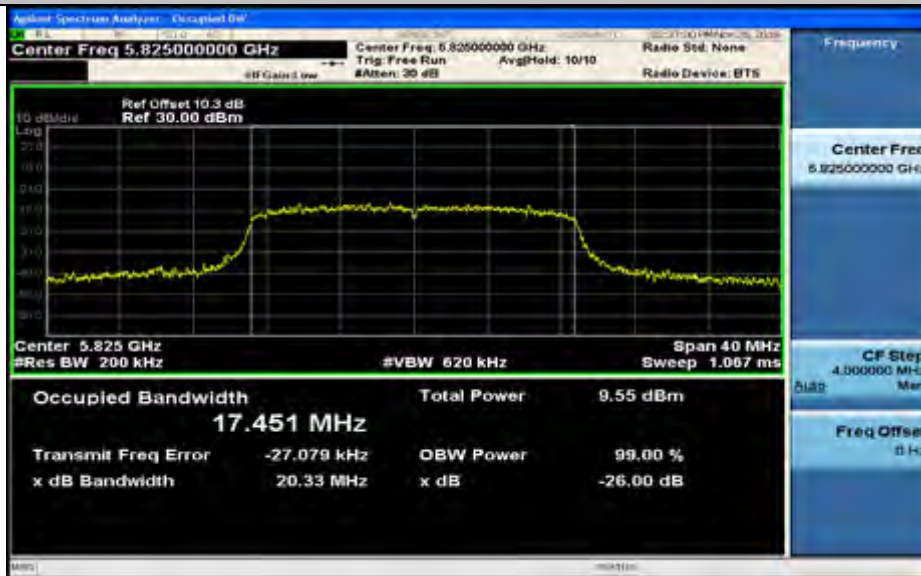


(26dB)Emission Bandwidth Measurement\_11AC20\_5785\_Ant1

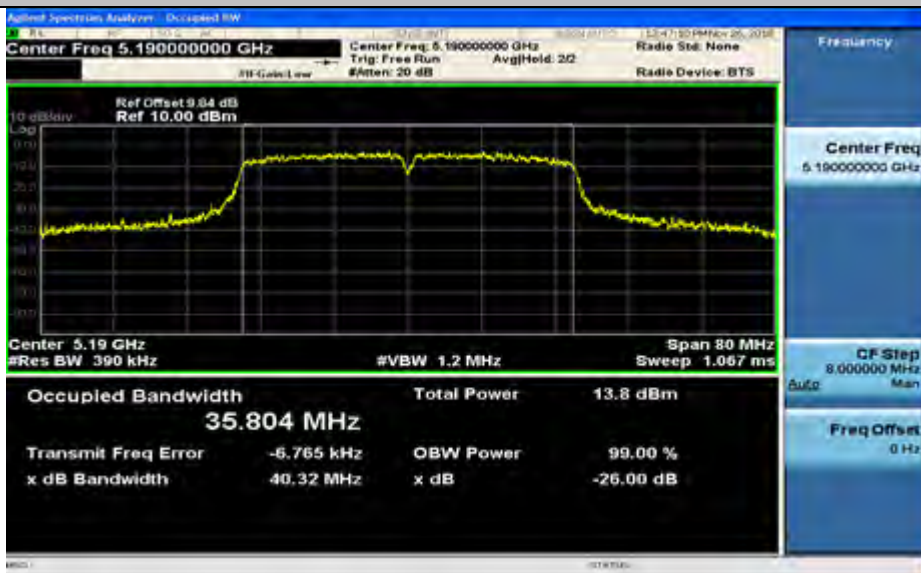




(26dB)Emission Bandwidth Measurement\_11AC20\_5825\_Ant1



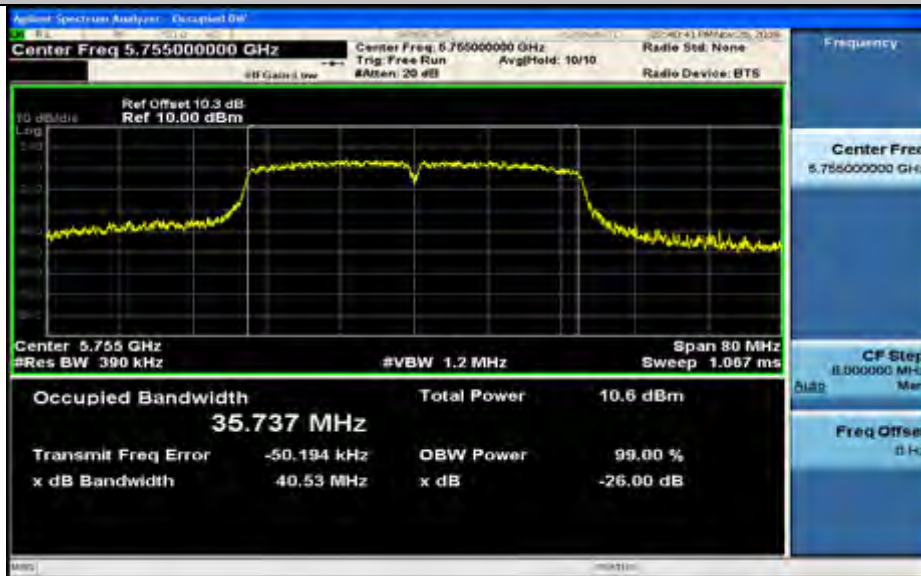
(26dB)Emission Bandwidth Measurement\_11AC40\_5190\_Ant1



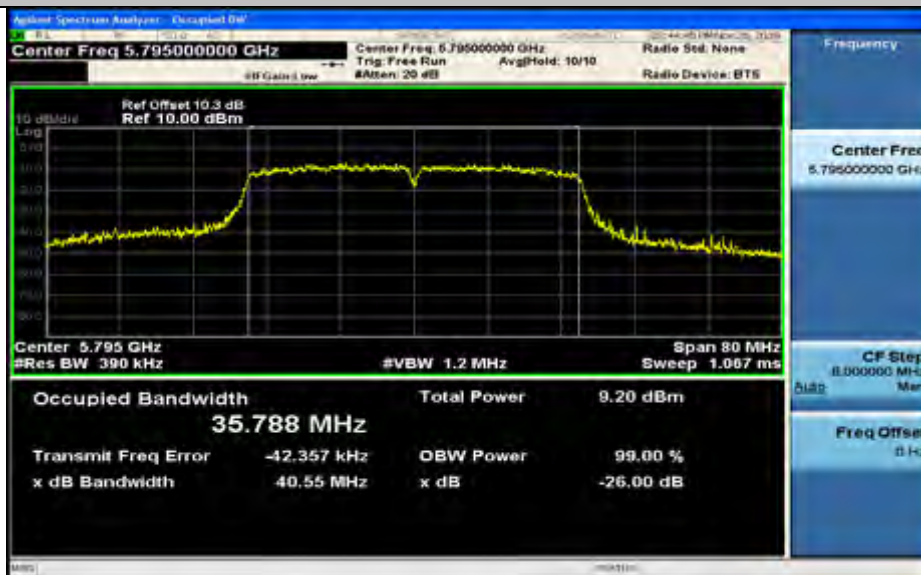
(26dB)Emission Bandwidth Measurement\_11AC40\_5230\_Ant1



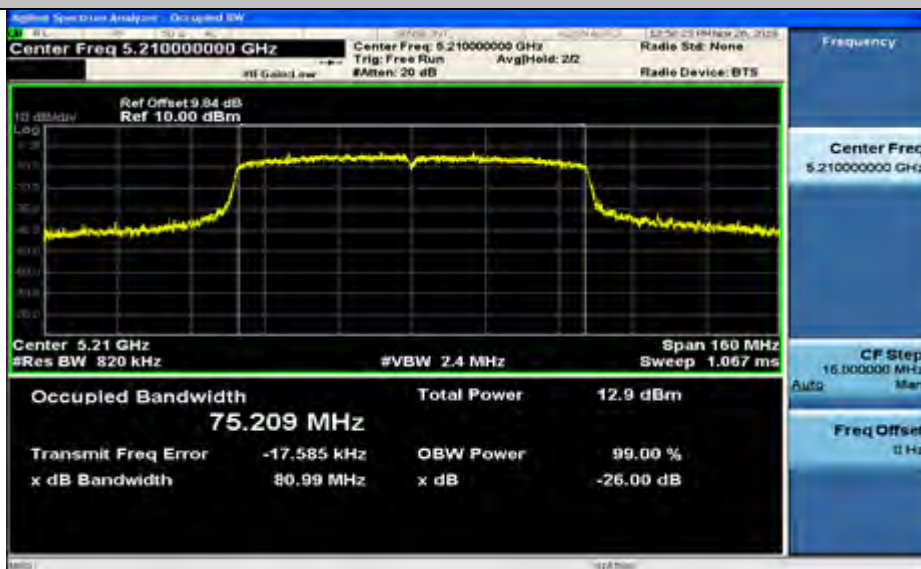
(26dB)Emission Bandwidth Measurement\_11AC40\_5755\_Ant1



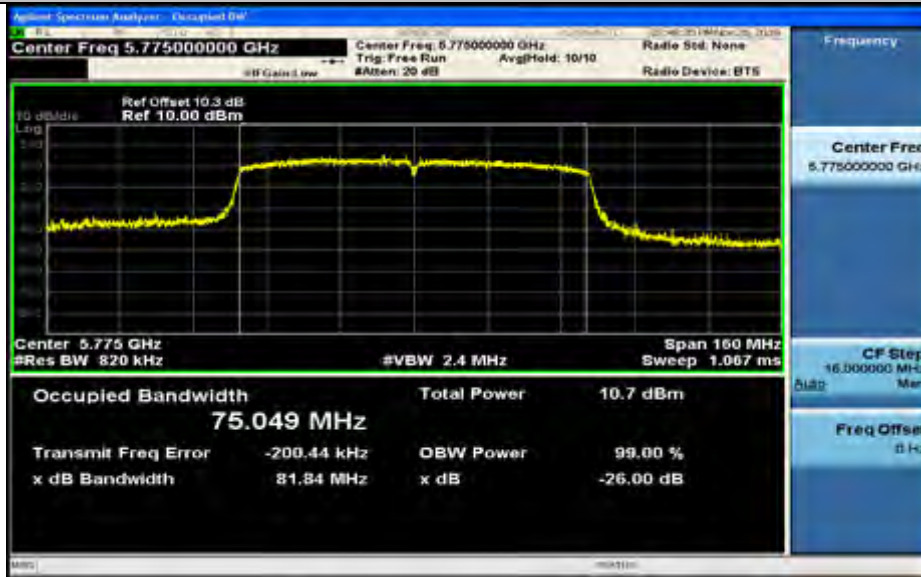
(26dB)Emission Bandwidth Measurement\_11AC40\_5795\_Ant1



(26dB)Emission Bandwidth Measurement\_11AC80\_5210\_Ant1



## (26dB)Emission Bandwidth Measurement\_11AC80\_5775\_Ant1

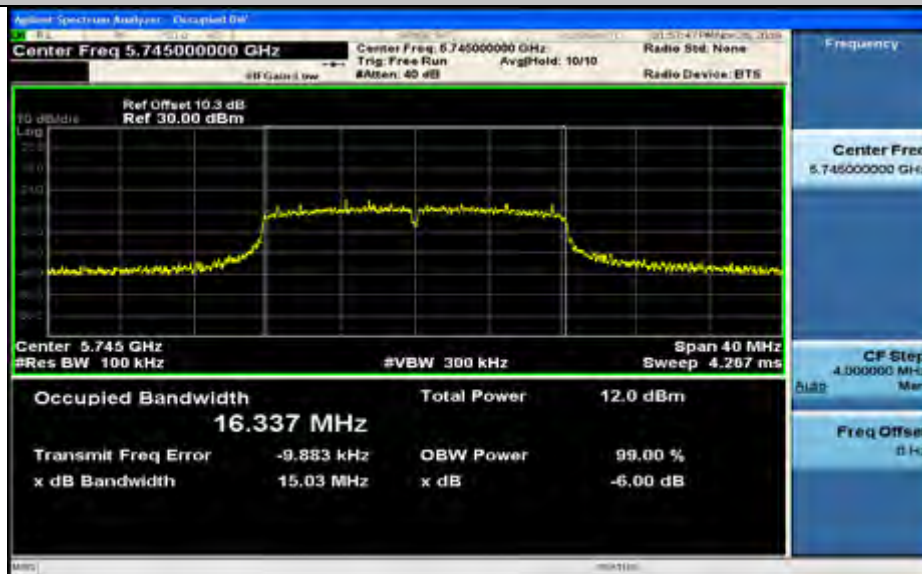




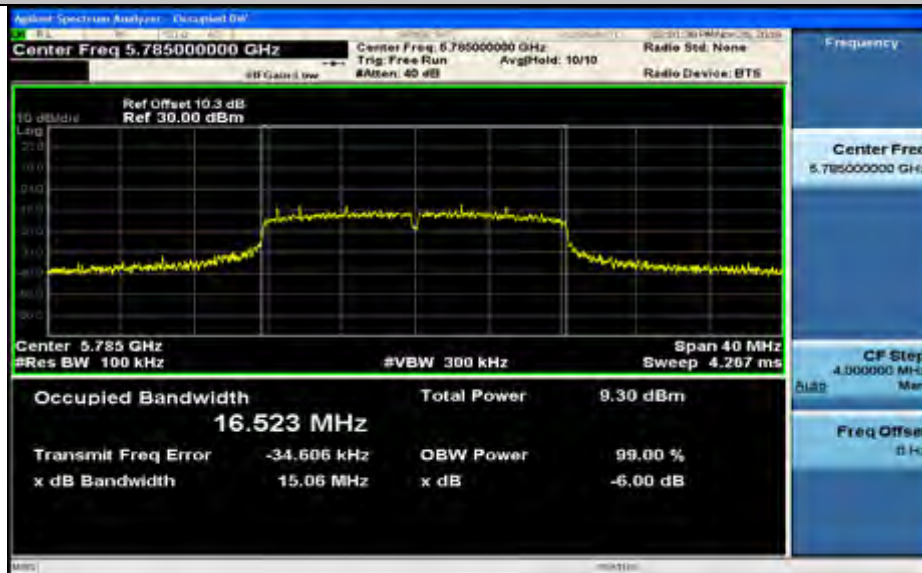
**2.(6dB)Minimum Emission Bandwidth Measurement**

| Test Mode | Test Channel | Ant  | (6dB)EBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|---------------|------------|---------|
| 11A       | 5745         | Ant1 | 15.03         | 0.5        | PASS    |
| 11A       | 5785         | Ant1 | 15.06         | 0.5        | PASS    |
| 11A       | 5825         | Ant1 | 15.07         | 0.5        | PASS    |
| 11N20     | 5745         | Ant1 | 15.06         | 0.5        | PASS    |
| 11N20     | 5785         | Ant1 | 15.36         | 0.5        | PASS    |
| 11N20     | 5825         | Ant1 | 13.84         | 0.5        | PASS    |
| 11N40     | 5755         | Ant1 | 32.64         | 0.5        | PASS    |
| 11N40     | 5795         | Ant1 | 32.57         | 0.5        | PASS    |
| 11AC20    | 5745         | Ant1 | 15.10         | 0.5        | PASS    |
| 11AC20    | 5785         | Ant1 | 14.10         | 0.5        | PASS    |
| 11AC20    | 5825         | Ant1 | 15.03         | 0.5        | PASS    |
| 11AC40    | 5755         | Ant1 | 34.18         | 0.5        | PASS    |
| 11AC40    | 5795         | Ant1 | 34.07         | 0.5        | PASS    |
| 11AC80    | 5775         | Ant1 | 75.07         | 0.5        | PASS    |

(6dB)Minimum Emission Bandwidth Measurement\_11A\_5745\_Ant1



(6dB)Minimum Emission Bandwidth Measurement\_11A\_5785\_Ant1



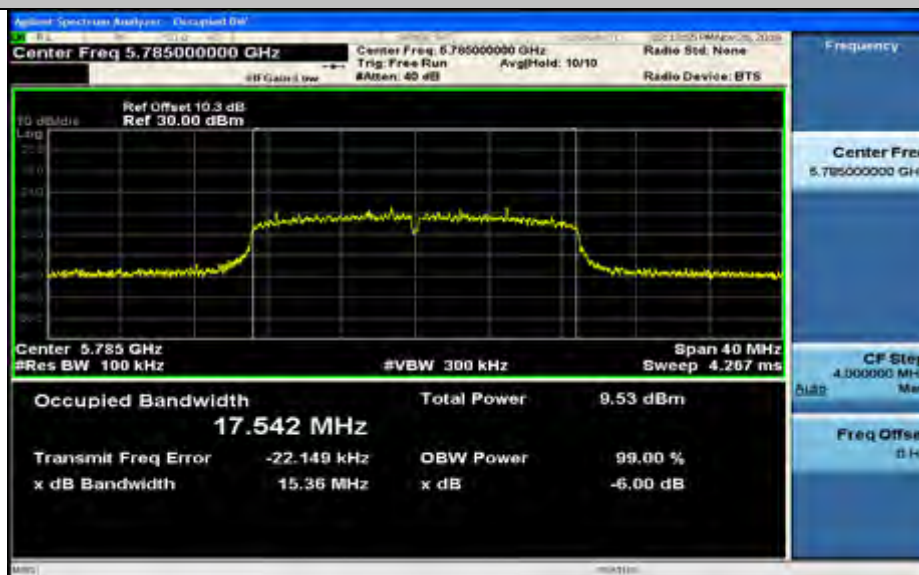
(6dB)Minimum Emission Bandwidth Measurement\_11A\_5825\_Ant1



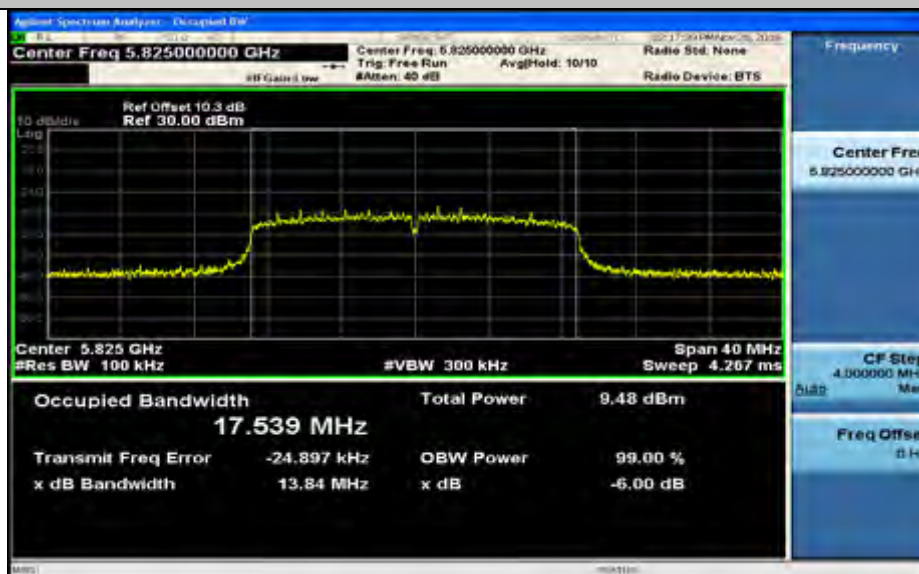
(6dB)Minimum Emission Bandwidth Measurement\_11N20\_5745\_Ant1



(6dB)Minimum Emission Bandwidth Measurement\_11N20\_5785\_Ant1

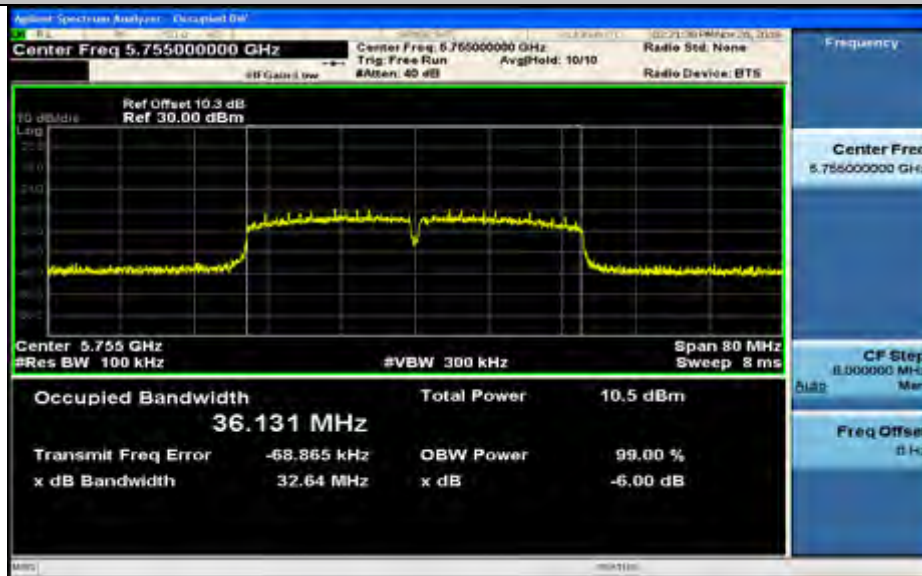


(6dB)Minimum Emission Bandwidth Measurement\_11N20\_5825\_Ant1

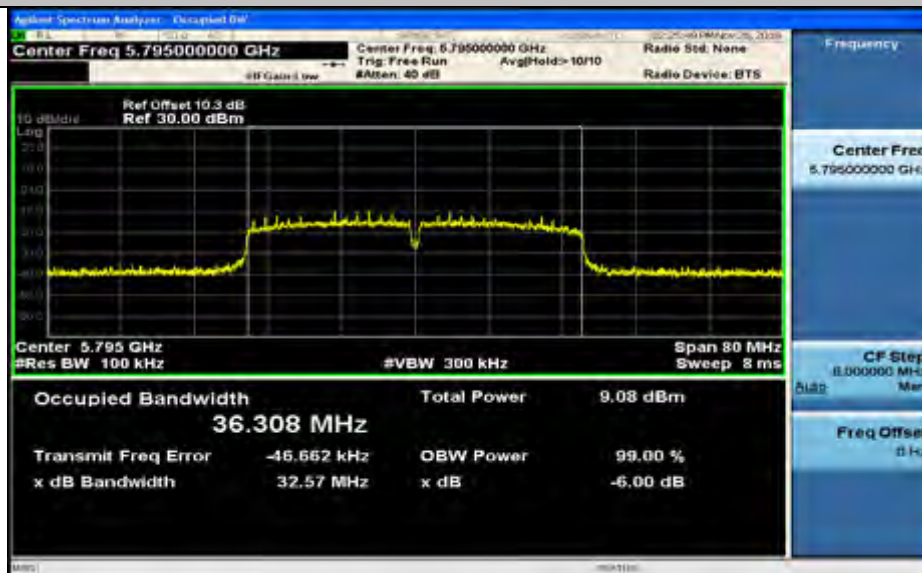




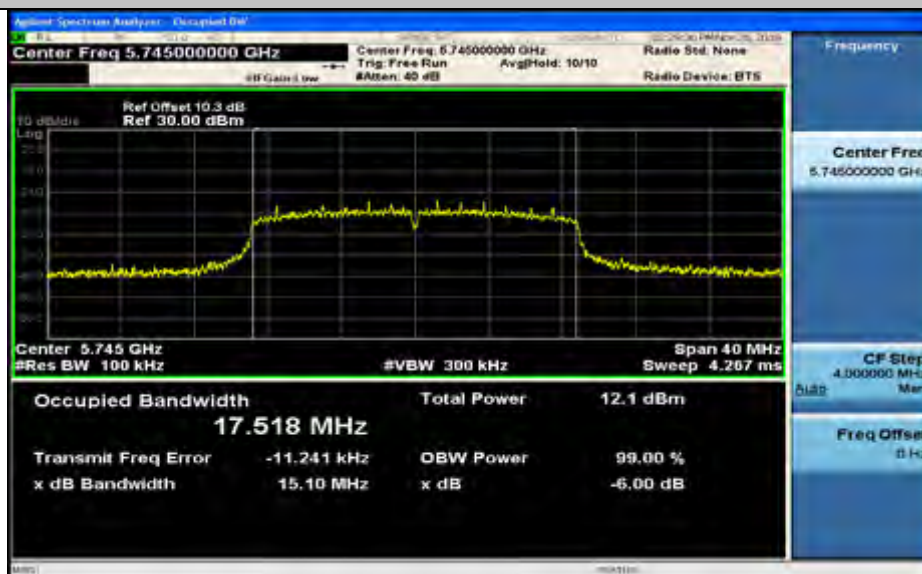
(6dB)Minimum Emission Bandwidth Measurement\_11N40\_5755\_Ant1



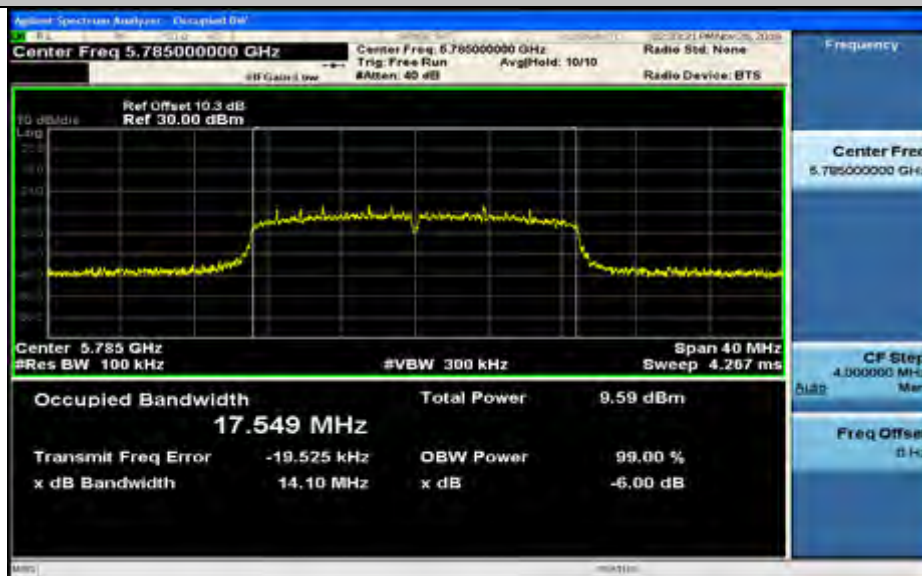
(6dB)Minimum Emission Bandwidth Measurement\_11N40\_5795\_Ant1



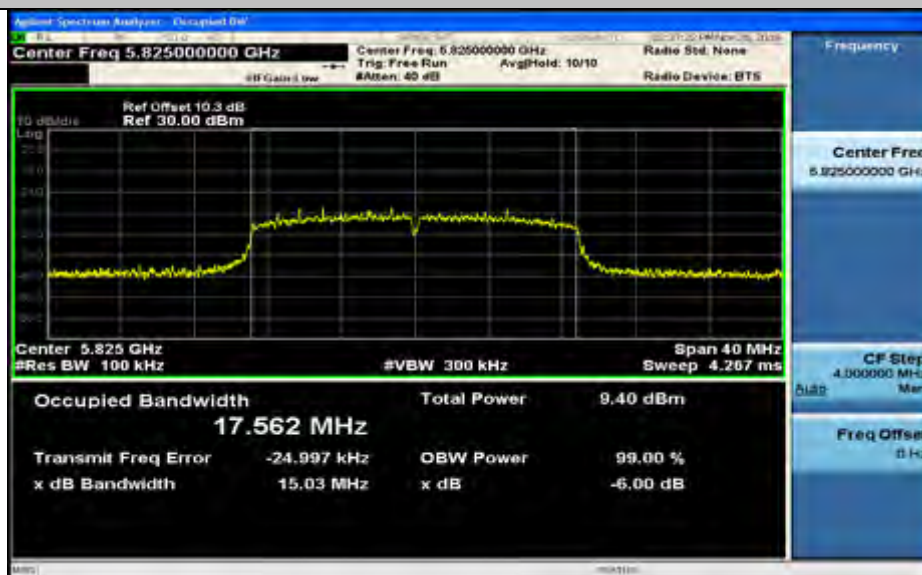
(6dB)Minimum Emission Bandwidth Measurement\_11AC20\_5745\_Ant1



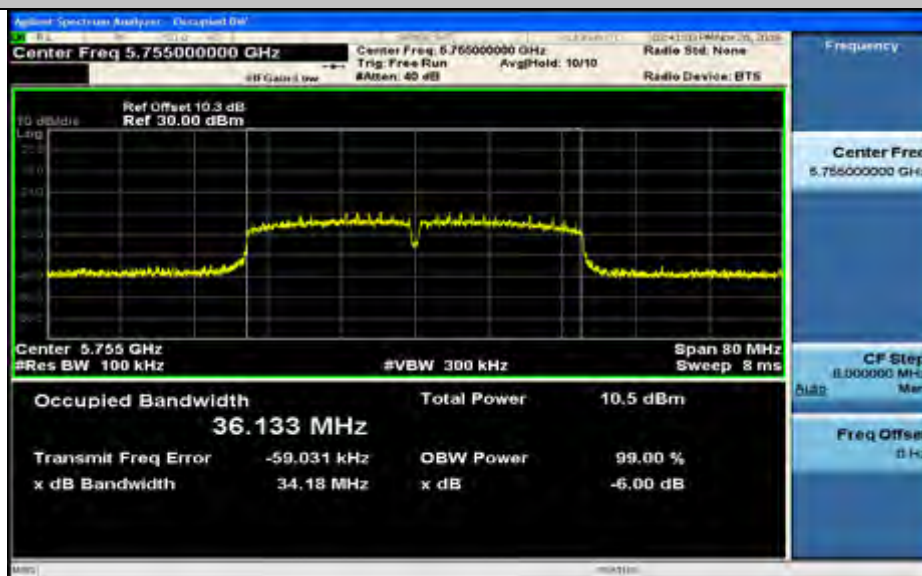
(6dB)Minimum Emission Bandwidth Measurement\_11AC20\_5785\_Ant1



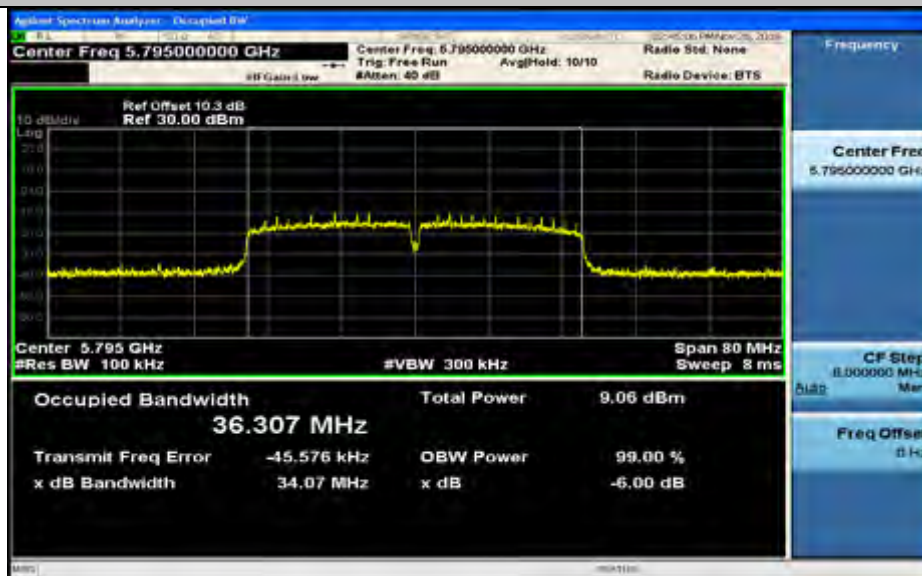
(6dB)Minimum Emission Bandwidth Measurement\_11AC20\_5825\_Ant1



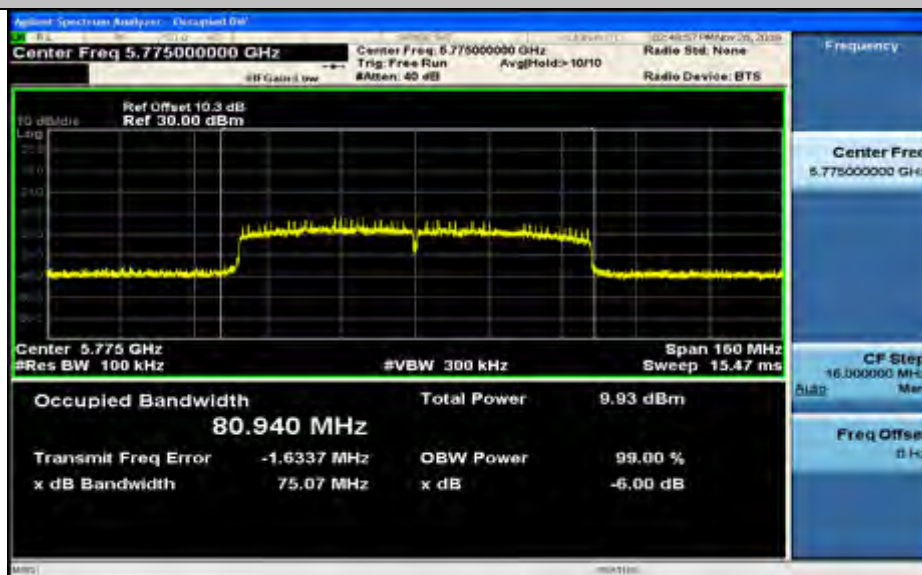
(6dB)Minimum Emission Bandwidth Measurement\_11AC40\_5755\_Ant1



(6dB)Minimum Emission Bandwidth Measurement\_11AC40\_5795\_Ant1



(6dB)Minimum Emission Bandwidth Measurement\_11AC80\_5775\_Ant1

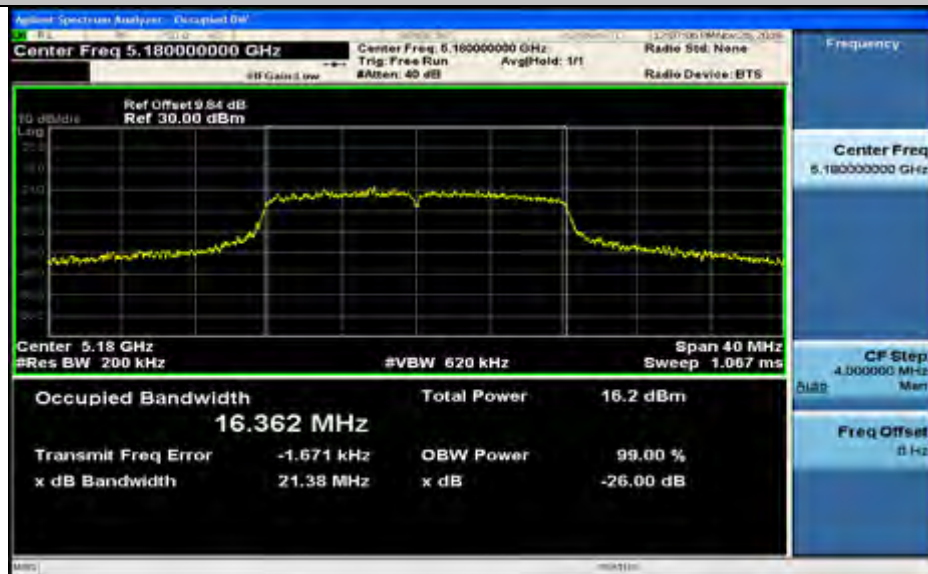




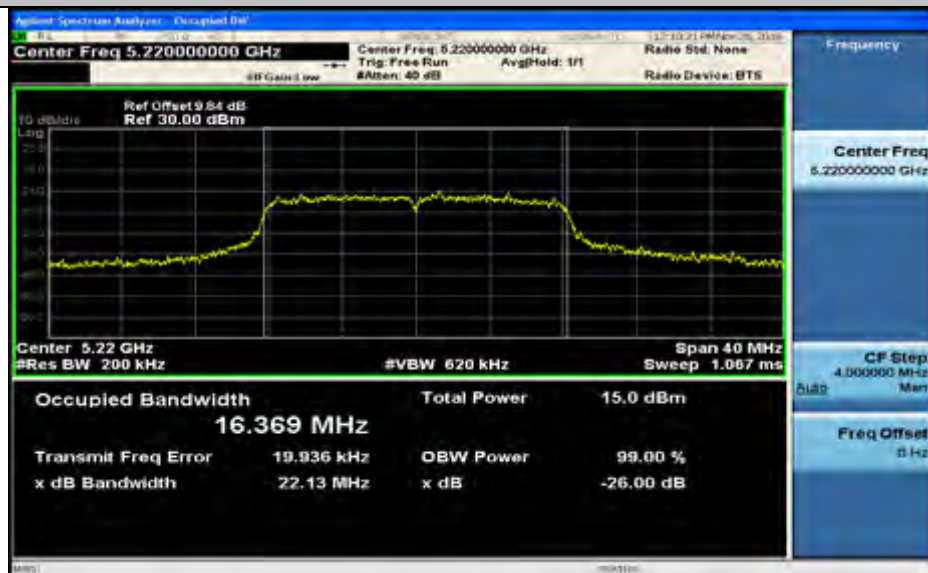
**3.Occupied Bandwidth Measurement**

| Test Mode | Test Channel | Ant  | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------|------------|---------|
| 11A       | 5180         | Ant1 | 16.36    | ---        | PASS    |
| 11A       | 5220         | Ant1 | 16.37    | ---        | PASS    |
| 11A       | 5240         | Ant1 | 16.43    | ---        | PASS    |
| 11A       | 5745         | Ant1 | 16.41    | ---        | PASS    |
| 11A       | 5785         | Ant1 | 16.74    | ---        | PASS    |
| 11A       | 5825         | Ant1 | 16.44    | ---        | PASS    |
| 11N20     | 5180         | Ant1 | 17.50    | ---        | PASS    |
| 11N20     | 5220         | Ant1 | 17.56    | ---        | PASS    |
| 11N20     | 5240         | Ant1 | 17.57    | ---        | PASS    |
| 11N20     | 5745         | Ant1 | 17.55    | ---        | PASS    |
| 11N20     | 5785         | Ant1 | 17.57    | ---        | PASS    |
| 11N20     | 5825         | Ant1 | 17.59    | ---        | PASS    |
| 11N40     | 5190         | Ant1 | 35.99    | ---        | PASS    |
| 11N40     | 5230         | Ant1 | 36.13    | ---        | PASS    |
| 11N40     | 5755         | Ant1 | 36.50    | ---        | PASS    |
| 11N40     | 5795         | Ant1 | 36.65    | ---        | PASS    |
| 11AC20    | 5180         | Ant1 | 17.56    | ---        | PASS    |
| 11AC20    | 5220         | Ant1 | 17.58    | ---        | PASS    |
| 11AC20    | 5240         | Ant1 | 17.54    | ---        | PASS    |
| 11AC20    | 5745         | Ant1 | 17.54    | ---        | PASS    |
| 11AC20    | 5785         | Ant1 | 17.61    | ---        | PASS    |
| 11AC20    | 5825         | Ant1 | 17.62    | ---        | PASS    |
| 11AC40    | 5190         | Ant1 | 36.01    | ---        | PASS    |
| 11AC40    | 5230         | Ant1 | 36.13    | ---        | PASS    |
| 11AC40    | 5755         | Ant1 | 36.42    | ---        | PASS    |
| 11AC40    | 5795         | Ant1 | 36.69    | ---        | PASS    |
| 11AC80    | 5210         | Ant1 | 75.99    | ---        | PASS    |
| 11AC80    | 5775         | Ant1 | 77.07    | ---        | PASS    |

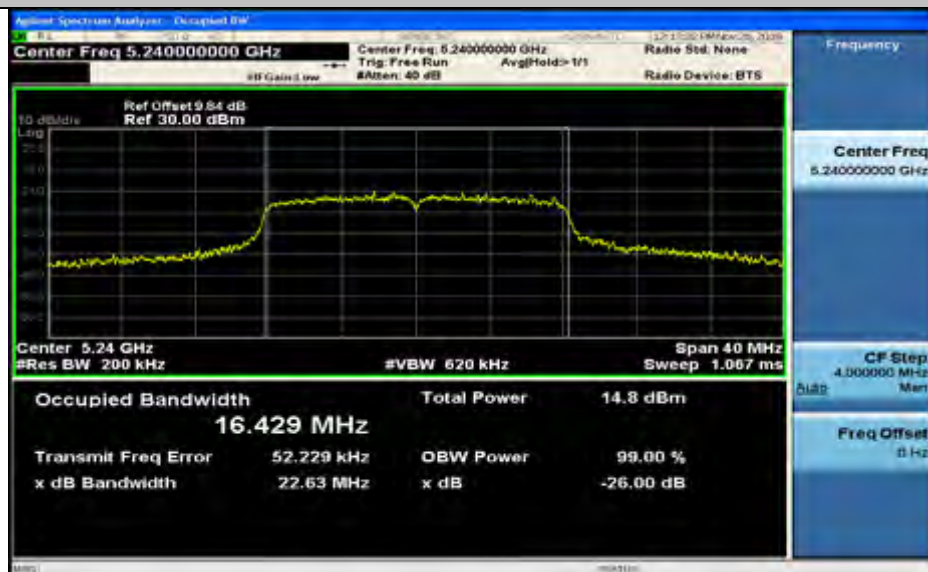
Occupied Bandwidth Measurement\_11A\_5180\_Ant1



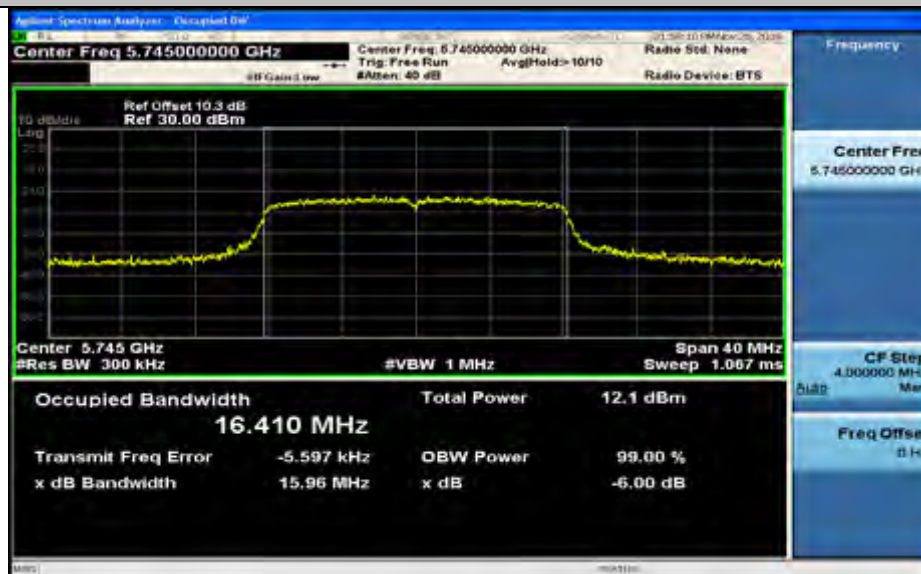
Occupied Bandwidth Measurement\_11A\_5220\_Ant1



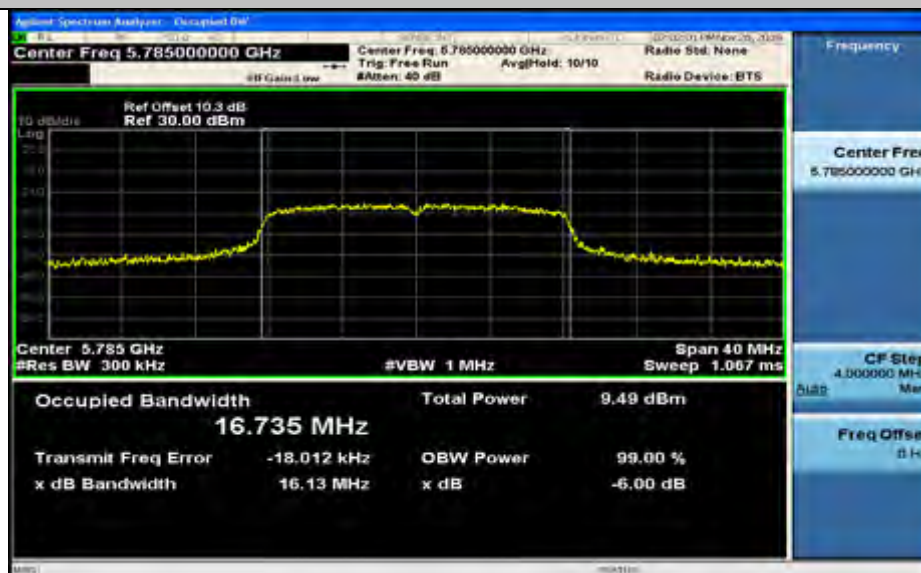
Occupied Bandwidth Measurement\_11A\_5240\_Ant1



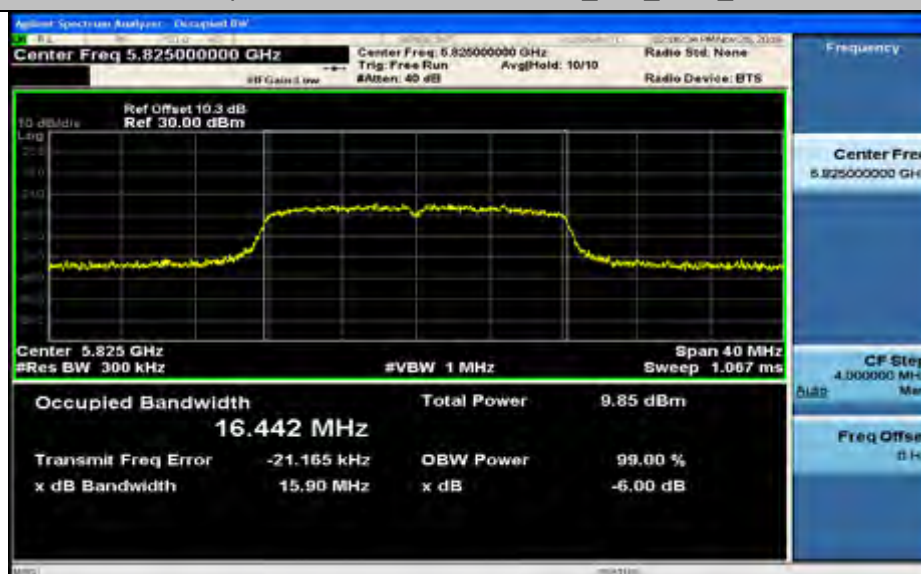
Occupied Bandwidth Measurement\_11A\_5745\_Ant1



Occupied Bandwidth Measurement\_11A\_5785\_Ant1

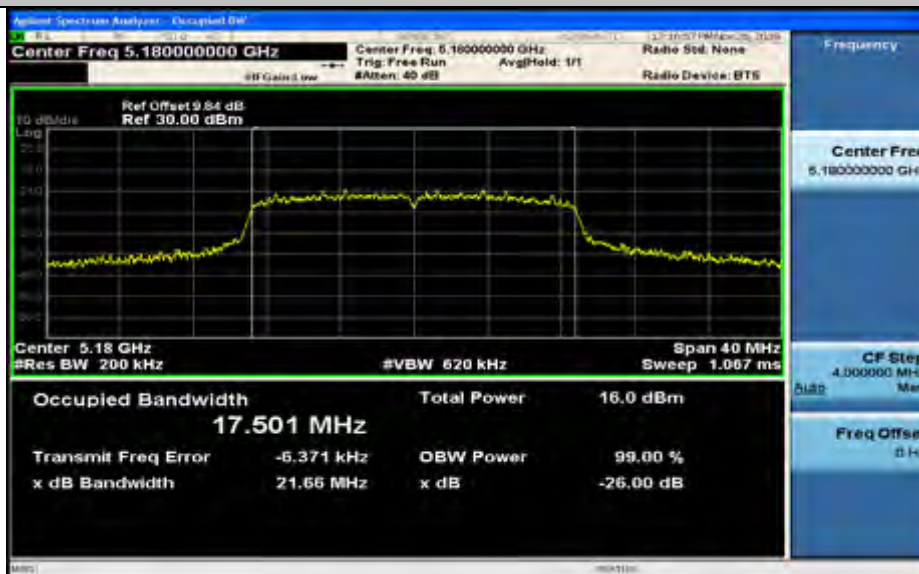


Occupied Bandwidth Measurement\_11A\_5825\_Ant1

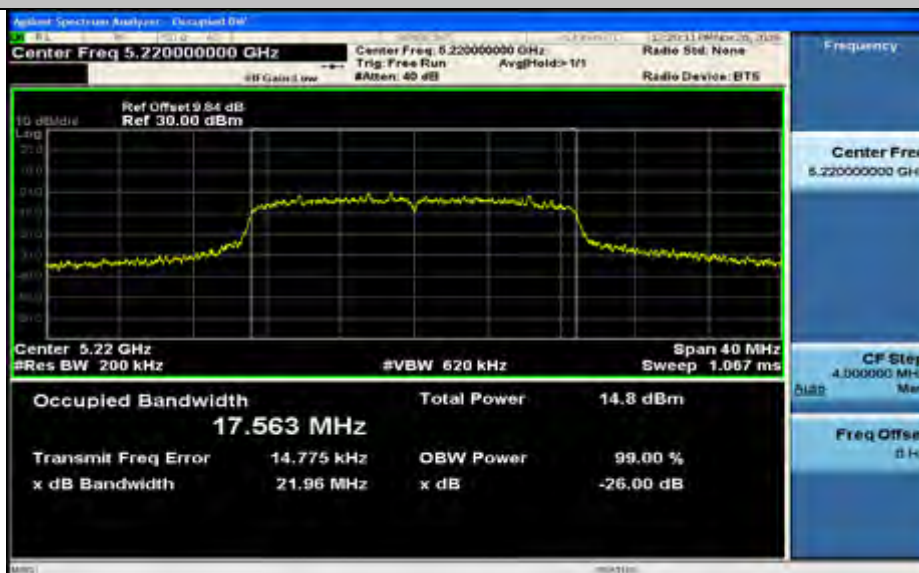




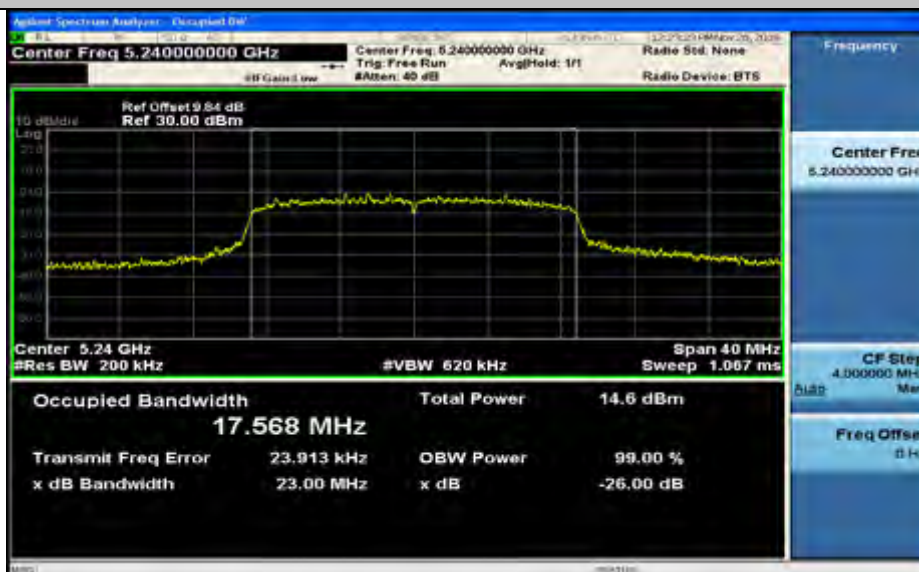
Occupied Bandwidth Measurement\_11N20\_5180\_Ant1



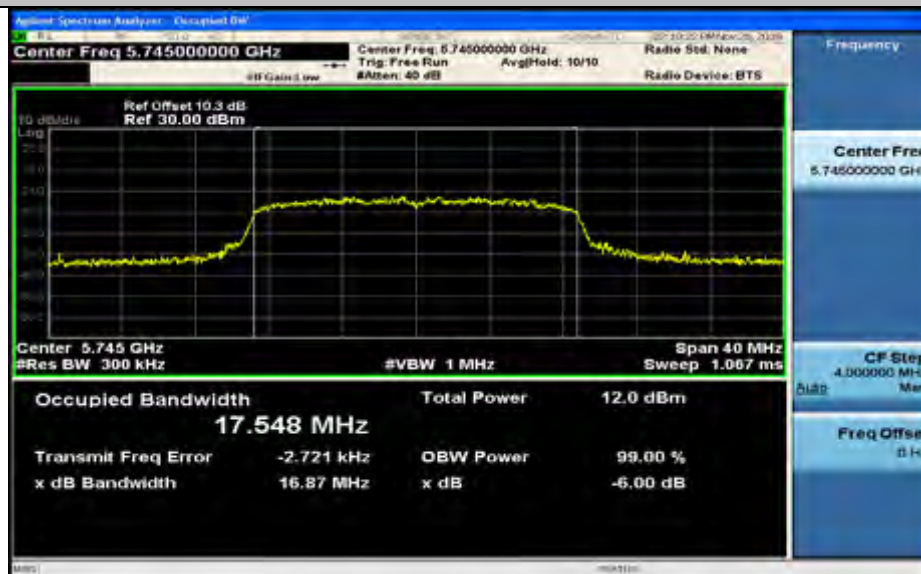
Occupied Bandwidth Measurement\_11N20\_5220\_Ant1



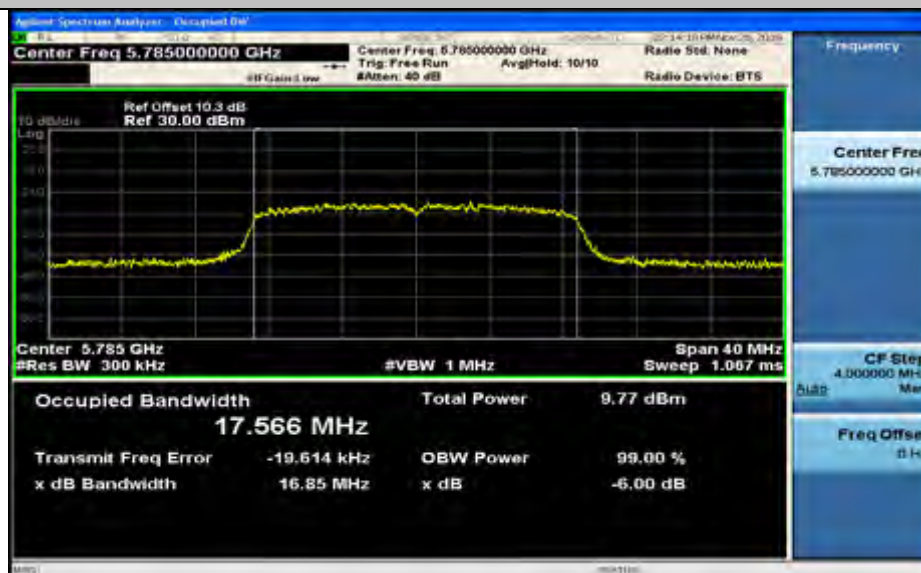
Occupied Bandwidth Measurement\_11N20\_5240\_Ant1



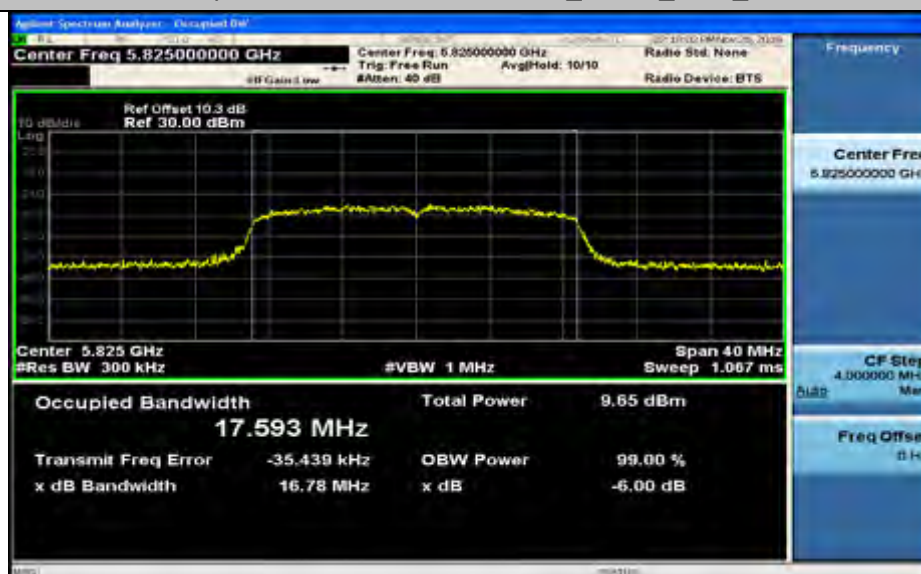
Occupied Bandwidth Measurement\_11N20\_5745\_Ant1



Occupied Bandwidth Measurement\_11N20\_5785\_Ant1

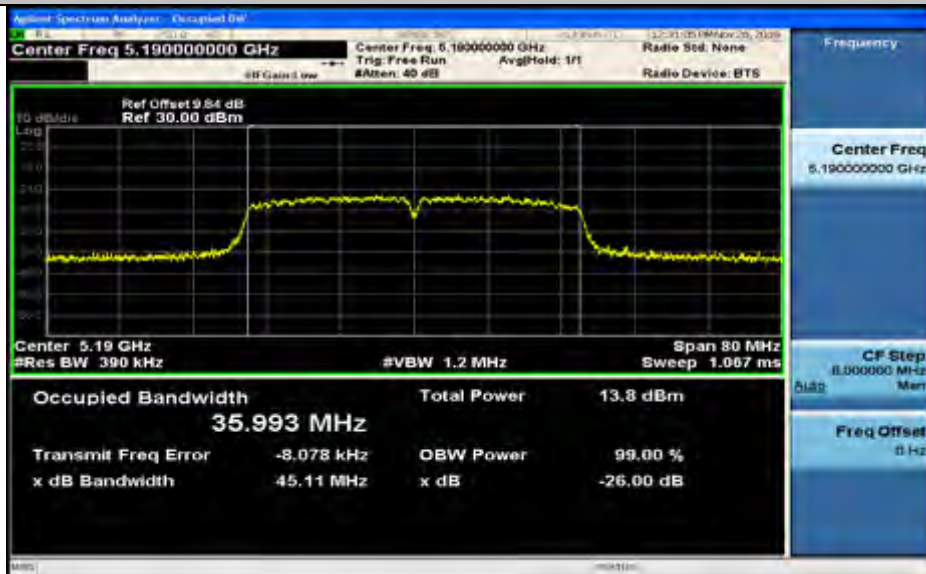


Occupied Bandwidth Measurement\_11N20\_5825\_Ant1

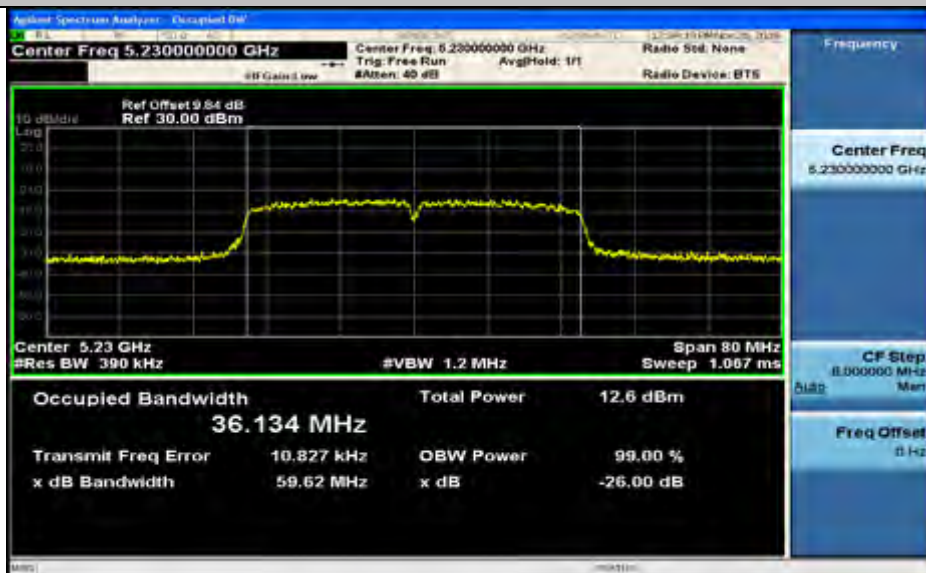




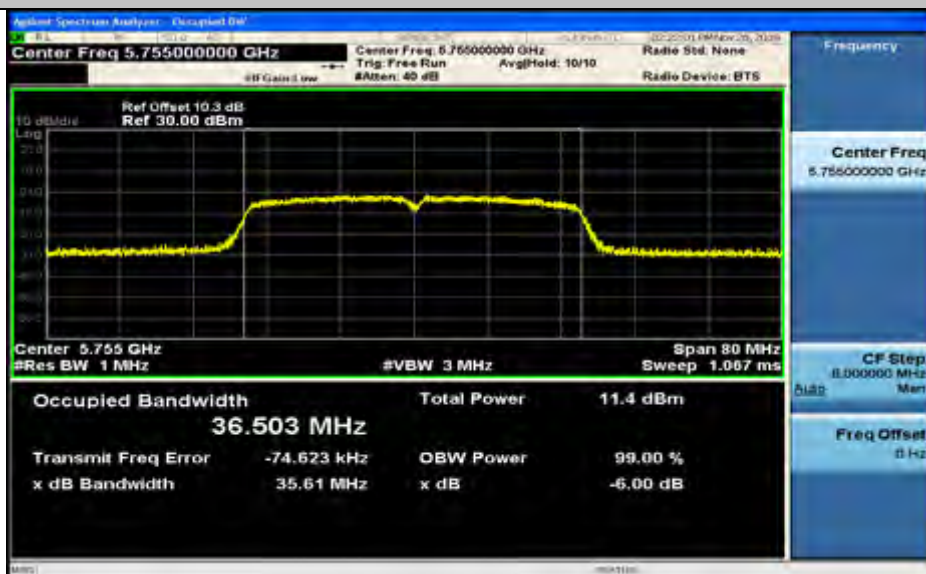
Occupied Bandwidth Measurement\_11N40\_5190\_Ant1



Occupied Bandwidth Measurement\_11N40\_5230\_Ant1



Occupied Bandwidth Measurement\_11N40\_5755\_Ant1

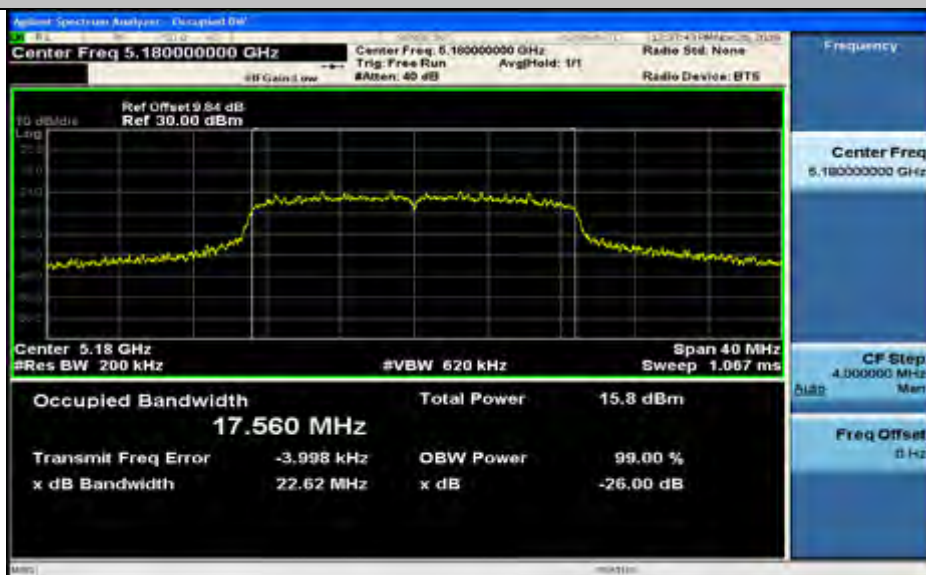




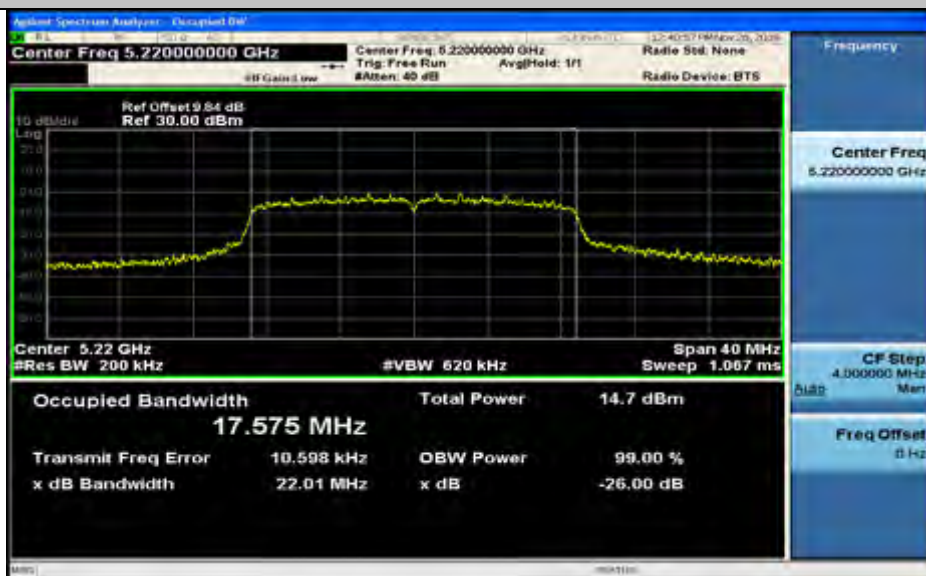
Occupied Bandwidth Measurement\_11N40\_5795\_Ant1



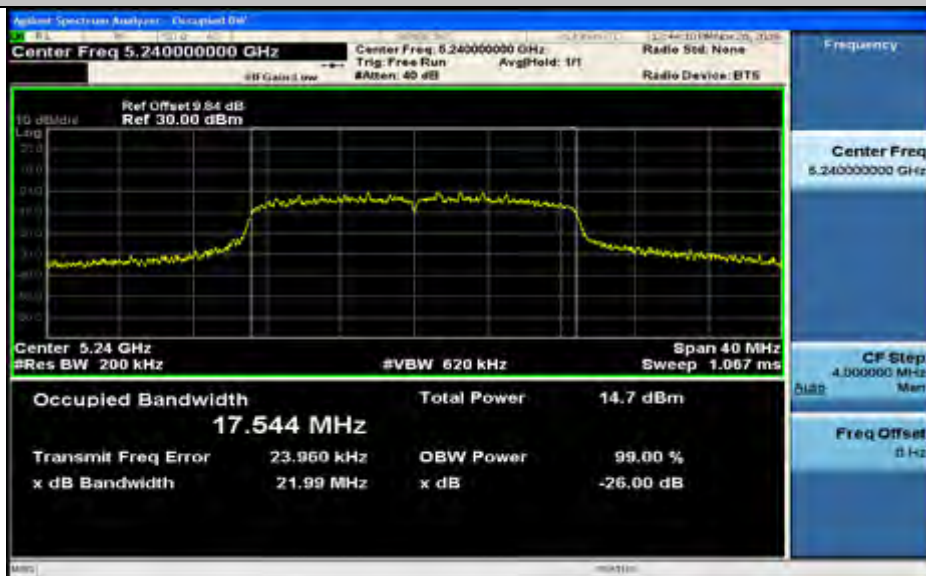
Occupied Bandwidth Measurement\_11AC20\_5180\_Ant1



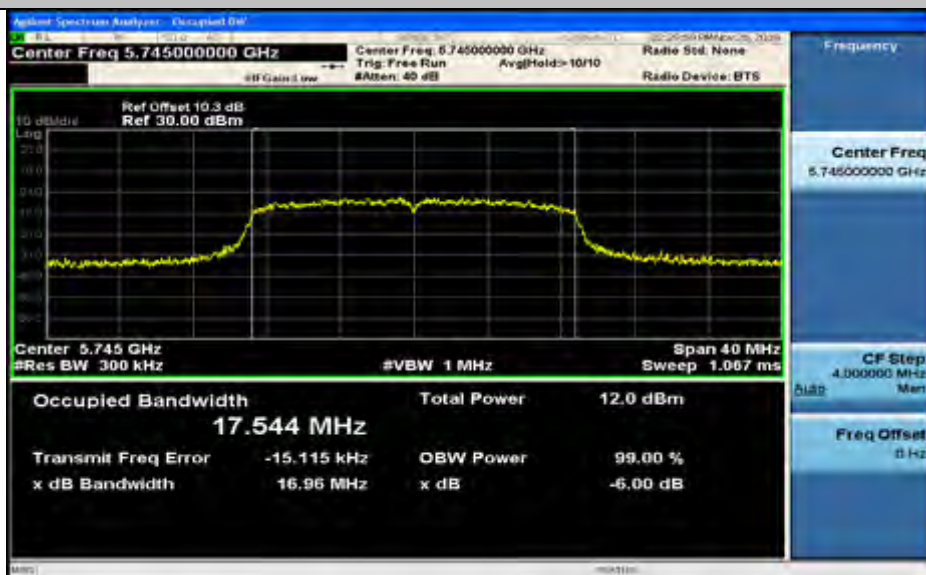
Occupied Bandwidth Measurement\_11AC20\_5220\_Ant1



Occupied Bandwidth Measurement\_11AC20\_5240\_Ant1



Occupied Bandwidth Measurement\_11AC20\_5745\_Ant1

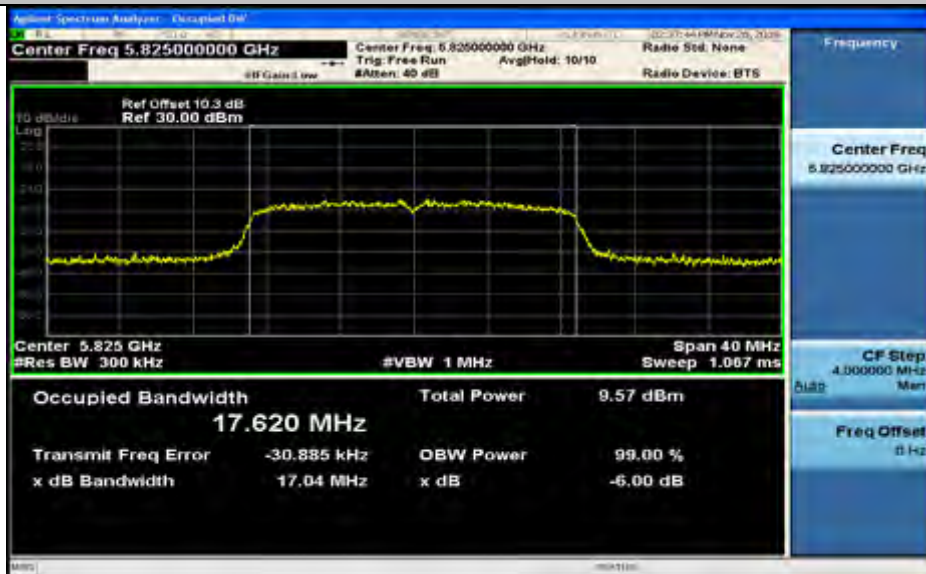


Occupied Bandwidth Measurement\_11AC20\_5785\_Ant1

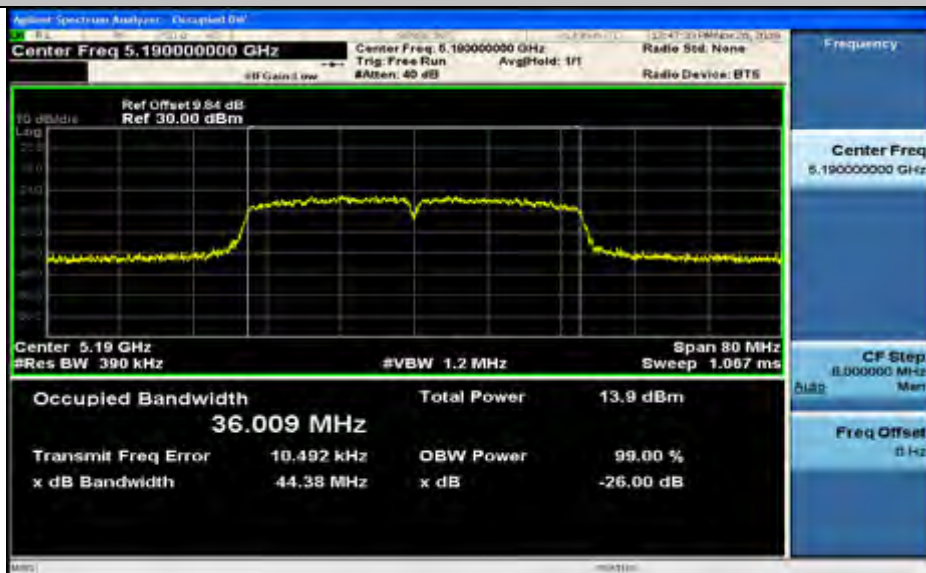




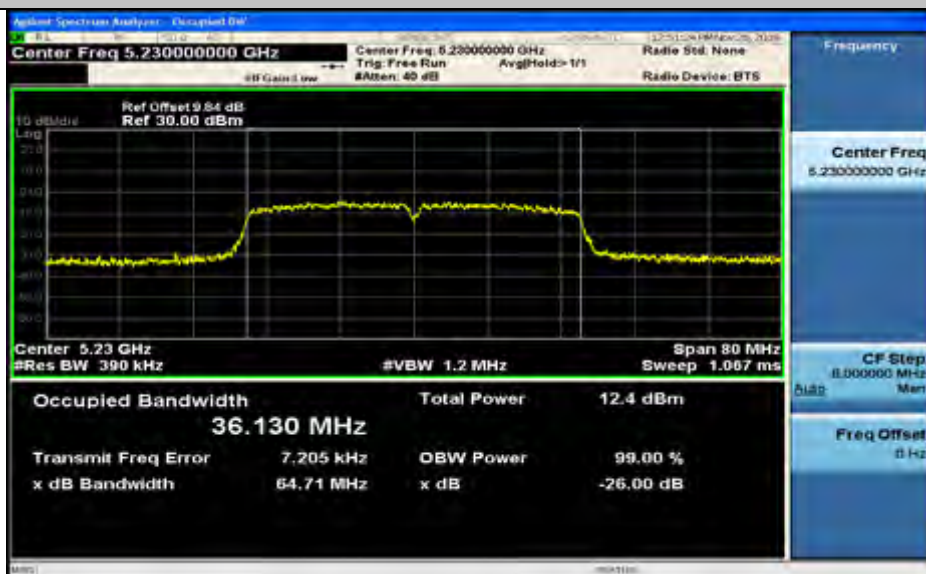
Occupied Bandwidth Measurement\_11AC20\_5825\_Ant1



Occupied Bandwidth Measurement\_11AC40\_5190\_Ant1

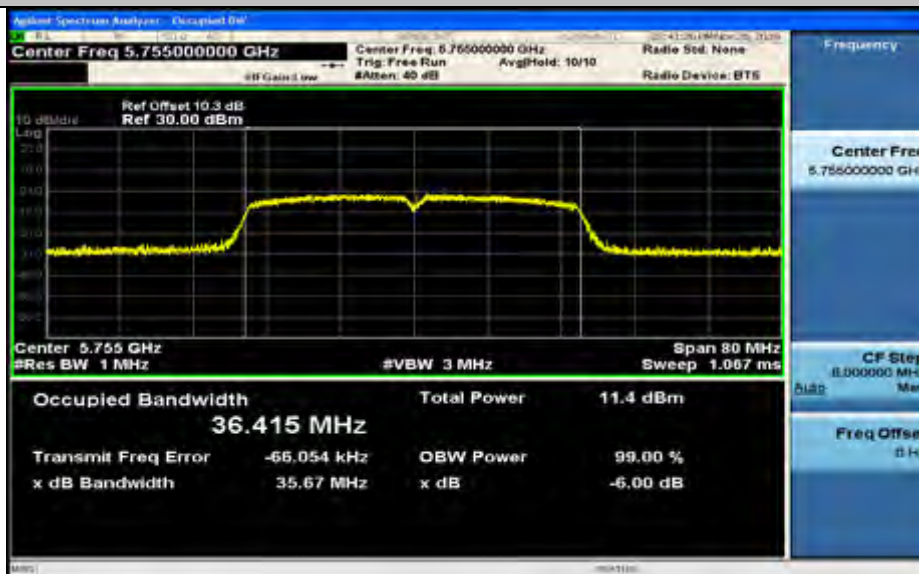


Occupied Bandwidth Measurement\_11AC40\_5230\_Ant1





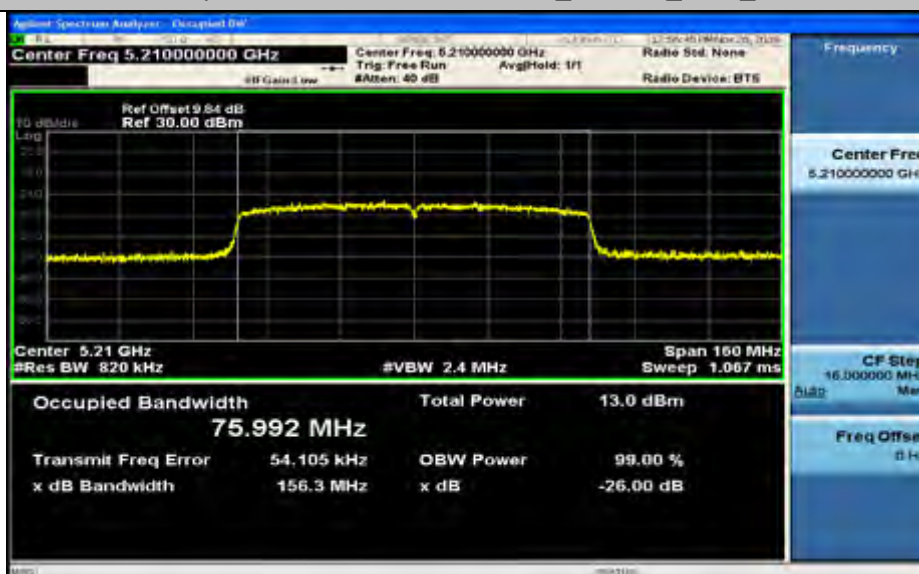
Occupied Bandwidth Measurement\_11AC40\_5755\_Ant1



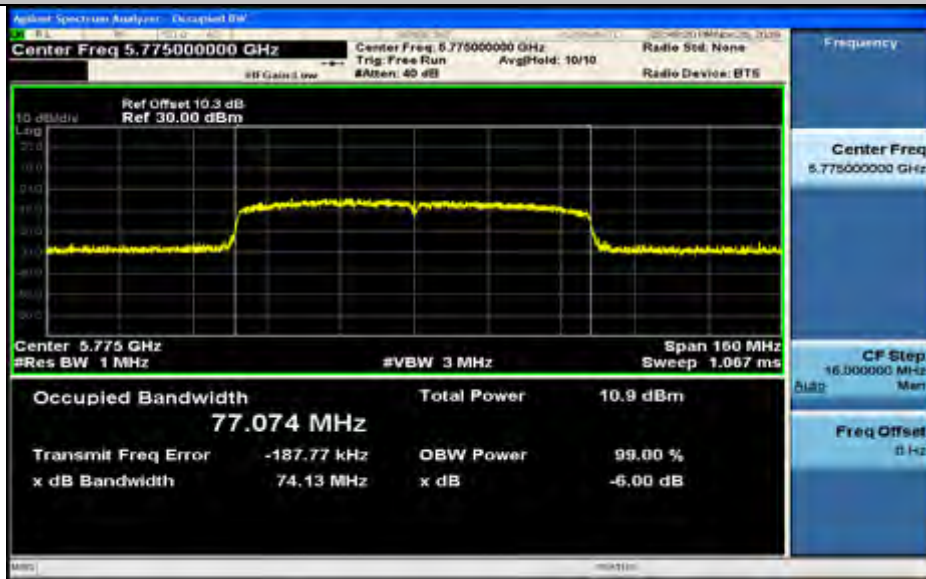
Occupied Bandwidth Measurement\_11AC40\_5795\_Ant1



Occupied Bandwidth Measurement\_11AC80\_5210\_Ant1



## Occupied Bandwidth Measurement\_11AC80\_5775\_Ant1



**4.Maximum Conduct Output Power for FCC**

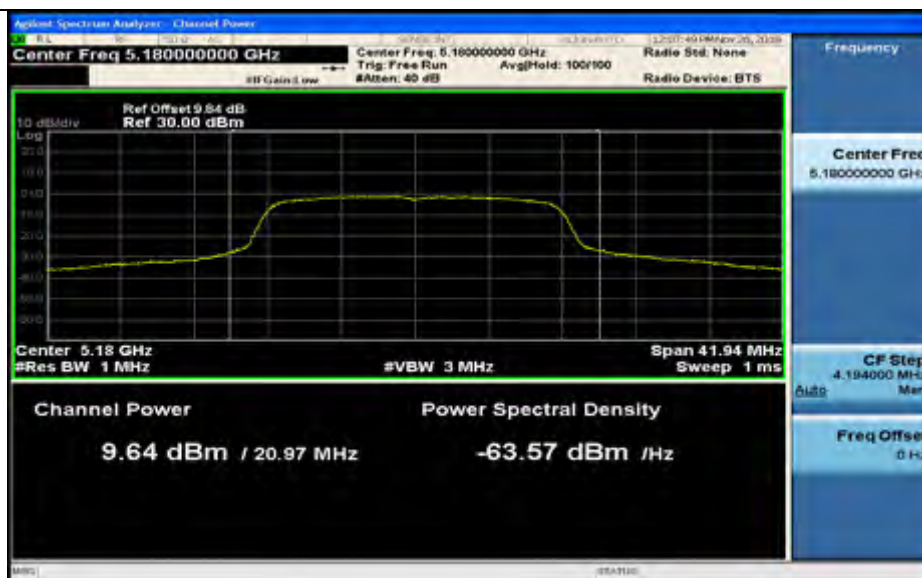
| Test Mode | Test Channel | Ant  | Level [dBm] | 10log(1/x) Factor [dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|------------------------|-------------|-------------|---------|
| 11A       | 5180         | Ant1 | 9.64        | 0.35                   | 9.99        | 23.98       | PASS    |
| 11A       | 5220         | Ant1 | 8.48        | 0.24                   | 8.72        | 23.98       | PASS    |
| 11A       | 5240         | Ant1 | 8.16        | 0.35                   | 8.51        | 23.98       | PASS    |
| 11A       | 5745         | Ant1 | 5.8         | 0.35                   | 6.15        | 30.00       | PASS    |
| 11A       | 5785         | Ant1 | 3.24        | 0.23                   | 3.47        | 30.00       | PASS    |
| 11A       | 5825         | Ant1 | 3.37        | 0.28                   | 3.65        | 30.00       | PASS    |
| 11N20     | 5180         | Ant1 | 9.38        | 0.25                   | 9.63        | 23.98       | PASS    |
| 11N20     | 5220         | Ant1 | 8.19        | 0.25                   | 8.44        | 23.98       | PASS    |
| 11N20     | 5240         | Ant1 | 8.04        | 0.25                   | 8.29        | 23.98       | PASS    |
| 11N20     | 5745         | Ant1 | 5.66        | 0.25                   | 5.91        | 30.00       | PASS    |
| 11N20     | 5785         | Ant1 | 3.31        | 0.29                   | 3.60        | 30.00       | PASS    |
| 11N20     | 5825         | Ant1 | 3.14        | 0.34                   | 3.48        | 30.00       | PASS    |
| 11N40     | 5190         | Ant1 | 7.47        | 0.44                   | 7.91        | 23.98       | PASS    |
| 11N40     | 5230         | Ant1 | 5.95        | 0.67                   | 6.62        | 23.98       | PASS    |
| 11N40     | 5755         | Ant1 | 4.2         | 0.59                   | 4.79        | 30.00       | PASS    |
| 11N40     | 5795         | Ant1 | 2.8         | 0.44                   | 3.24        | 30.00       | PASS    |
| 11AC20    | 5180         | Ant1 | 9.3         | 0.27                   | 9.57        | 23.98       | PASS    |
| 11AC20    | 5220         | Ant1 | 8.18        | 0.34                   | 8.52        | 23.98       | PASS    |
| 11AC20    | 5240         | Ant1 | 8.00        | 0.29                   | 8.29        | 23.98       | PASS    |
| 11AC20    | 5745         | Ant1 | 5.72        | 0.24                   | 5.96        | 30.00       | PASS    |
| 11AC20    | 5785         | Ant1 | 3.22        | 0.28                   | 3.50        | 30.00       | PASS    |
| 11AC20    | 5825         | Ant1 | 3.27        | 0.24                   | 3.51        | 30.00       | PASS    |
| 11AC40    | 5190         | Ant1 | 7.31        | 0.48                   | 7.79        | 23.98       | PASS    |
| 11AC40    | 5230         | Ant1 | 5.85        | 0.48                   | 6.33        | 23.98       | PASS    |
| 11AC40    | 5755         | Ant1 | 4.24        | 0.48                   | 4.72        | 30.00       | PASS    |
| 11AC40    | 5795         | Ant1 | 2.87        | 0.44                   | 3.31        | 30.00       | PASS    |
| 11AC80    | 5210         | Ant1 | 5.56        | 1.15                   | 6.71        | 23.98       | PASS    |
| 11AC80    | 5775         | Ant1 | 3.12        | 1.13                   | 4.25        | 30.00       | PASS    |



## 4.1 Maximum Output Power for ISED

| Test Mode | Test Channel | Ant  | Level [dBm] | 10log(1/x) Factor [dB] | Power [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|------------------------|-------------|------------|-------------|---------|
| 11A       | 5180         | Ant1 | 9.64        | 0.35                   | 9.99        | 11.99      | 23.00       | PASS    |
| 11A       | 5220         | Ant1 | 8.48        | 0.24                   | 8.72        | 10.72      | 23.00       | PASS    |
| 11A       | 5240         | Ant1 | 8.16        | 0.35                   | 8.51        | 10.51      | 23.00       | PASS    |
| 11A       | 5745         | Ant1 | 5.8         | 0.35                   | 6.15        | 8.15       | 30.00       | PASS    |
| 11A       | 5785         | Ant1 | 3.24        | 0.23                   | 3.47        | 5.47       | 30.00       | PASS    |
| 11A       | 5825         | Ant1 | 3.37        | 0.28                   | 3.65        | 5.65       | 30.00       | PASS    |
| 11N20     | 5180         | Ant1 | 9.38        | 0.25                   | 9.63        | 11.63      | 23.00       | PASS    |
| 11N20     | 5220         | Ant1 | 8.19        | 0.25                   | 8.44        | 10.44      | 23.00       | PASS    |
| 11N20     | 5240         | Ant1 | 8.04        | 0.25                   | 8.29        | 10.29      | 23.00       | PASS    |
| 11N20     | 5745         | Ant1 | 5.66        | 0.25                   | 5.91        | 7.91       | 30.00       | PASS    |
| 11N20     | 5785         | Ant1 | 3.31        | 0.29                   | 3.60        | 5.6        | 30.00       | PASS    |
| 11N20     | 5825         | Ant1 | 3.14        | 0.34                   | 3.48        | 5.48       | 30.00       | PASS    |
| 11N40     | 5190         | Ant1 | 7.47        | 0.44                   | 7.91        | 9.91       | 23.00       | PASS    |
| 11N40     | 5230         | Ant1 | 5.95        | 0.67                   | 6.62        | 8.62       | 23.00       | PASS    |
| 11N40     | 5755         | Ant1 | 4.2         | 0.59                   | 4.79        | 6.79       | 30.00       | PASS    |
| 11N40     | 5795         | Ant1 | 2.8         | 0.44                   | 3.24        | 5.24       | 30.00       | PASS    |
| 11AC20    | 5180         | Ant1 | 9.3         | 0.27                   | 9.57        | 11.57      | 23.00       | PASS    |
| 11AC20    | 5220         | Ant1 | 8.18        | 0.34                   | 8.52        | 10.52      | 23.00       | PASS    |
| 11AC20    | 5240         | Ant1 | 8.00        | 0.29                   | 8.29        | 10.29      | 23.00       | PASS    |
| 11AC20    | 5745         | Ant1 | 5.72        | 0.24                   | 5.96        | 7.96       | 30.00       | PASS    |
| 11AC20    | 5785         | Ant1 | 3.22        | 0.28                   | 3.50        | 5.5        | 30.00       | PASS    |
| 11AC20    | 5825         | Ant1 | 3.27        | 0.24                   | 3.51        | 5.51       | 30.00       | PASS    |
| 11AC40    | 5190         | Ant1 | 7.31        | 0.48                   | 7.79        | 9.79       | 23.00       | PASS    |
| 11AC40    | 5230         | Ant1 | 5.85        | 0.48                   | 6.33        | 8.33       | 23.00       | PASS    |
| 11AC40    | 5755         | Ant1 | 4.24        | 0.48                   | 4.72        | 6.72       | 30.00       | PASS    |
| 11AC40    | 5795         | Ant1 | 2.87        | 0.44                   | 3.31        | 5.31       | 30.00       | PASS    |
| 11AC80    | 5210         | Ant1 | 5.56        | 1.15                   | 6.71        | 8.71       | 23.00       | PASS    |
| 11AC80    | 5775         | Ant1 | 3.12        | 1.13                   | 4.25        | 6.25       | 30.00       | PASS    |

Maximum Conduct Output Power\_11A\_5180\_Ant1



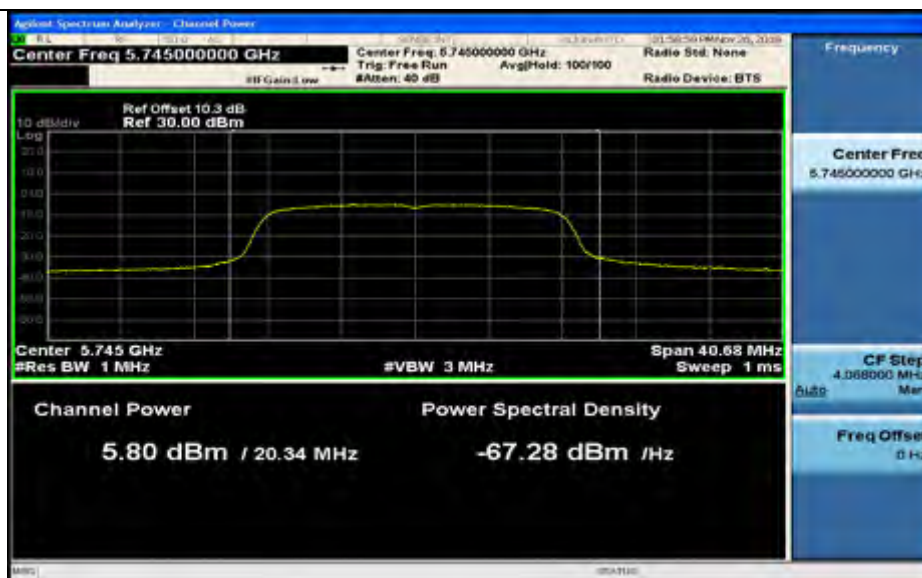
Maximum Conduct Output Power\_11A\_5220\_Ant1



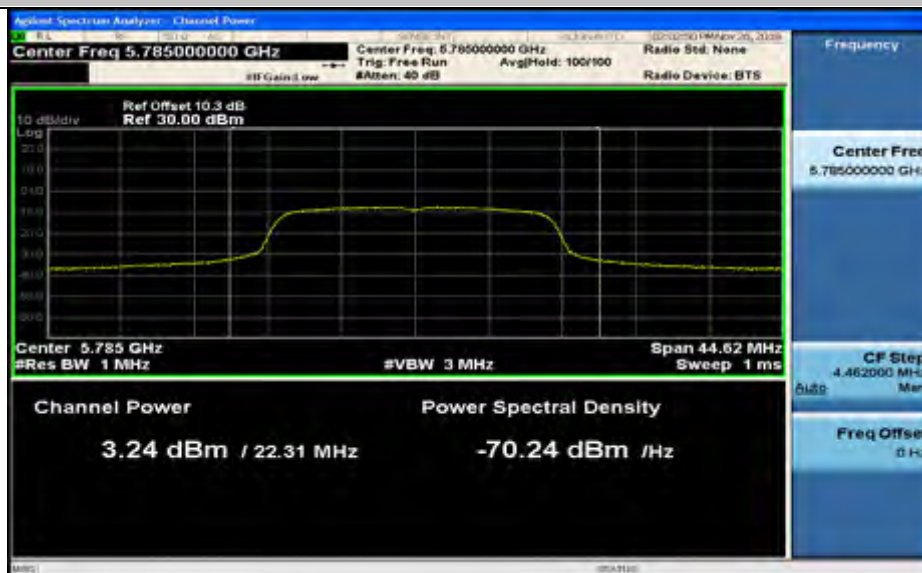
Maximum Conduct Output Power\_11A\_5240\_Ant1



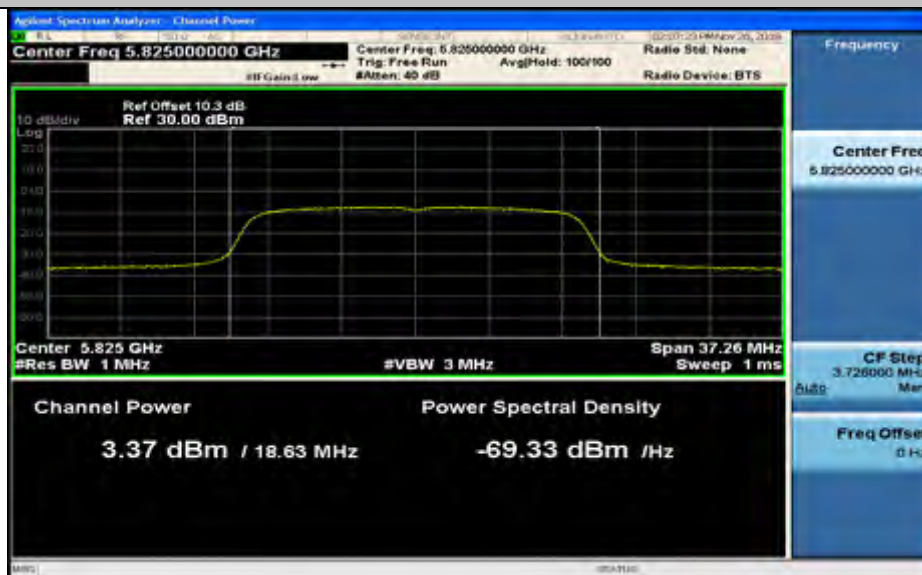
Maximum Conduct Output Power\_11A\_5745\_Ant1



Maximum Conduct Output Power\_11A\_5785\_Ant1

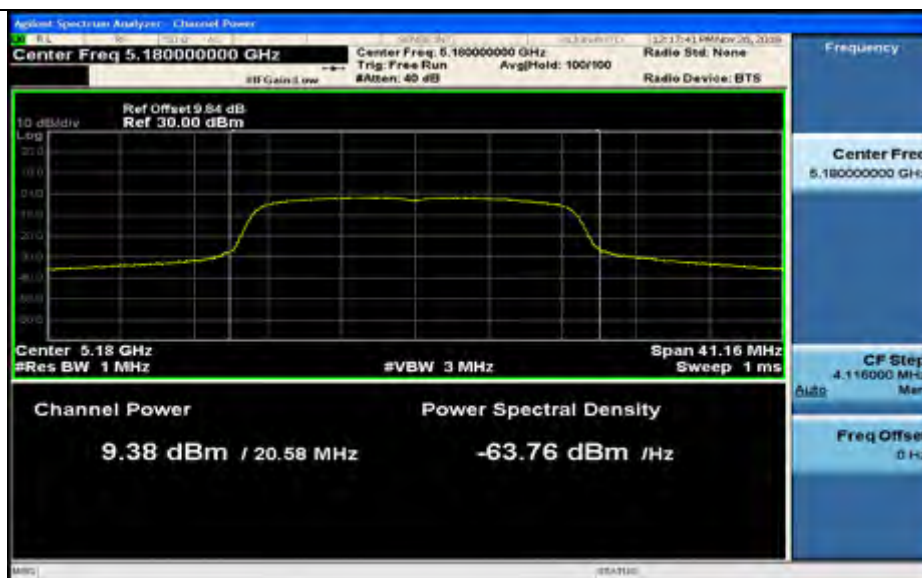


Maximum Conduct Output Power\_11A\_5825\_Ant1

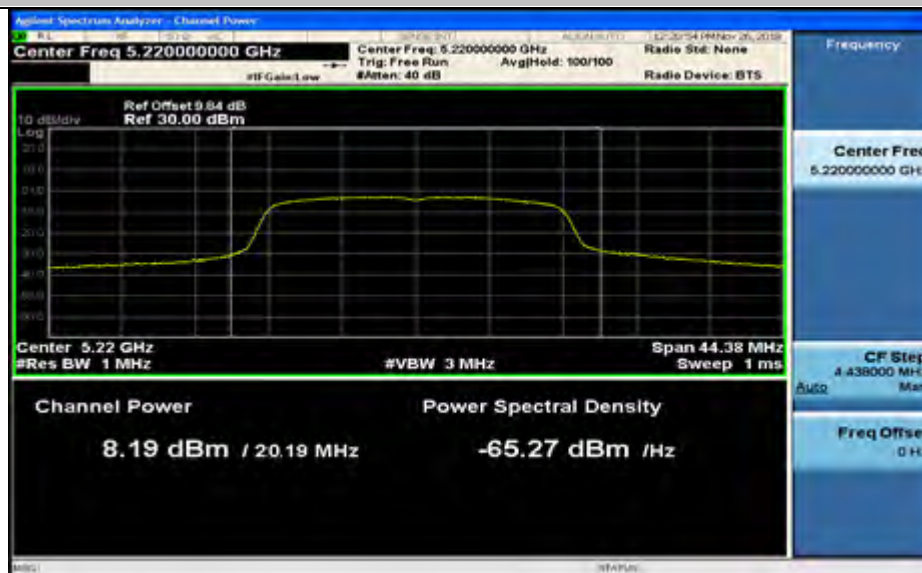


Maximum Conduct Output Power\_11N20\_5180\_Ant1





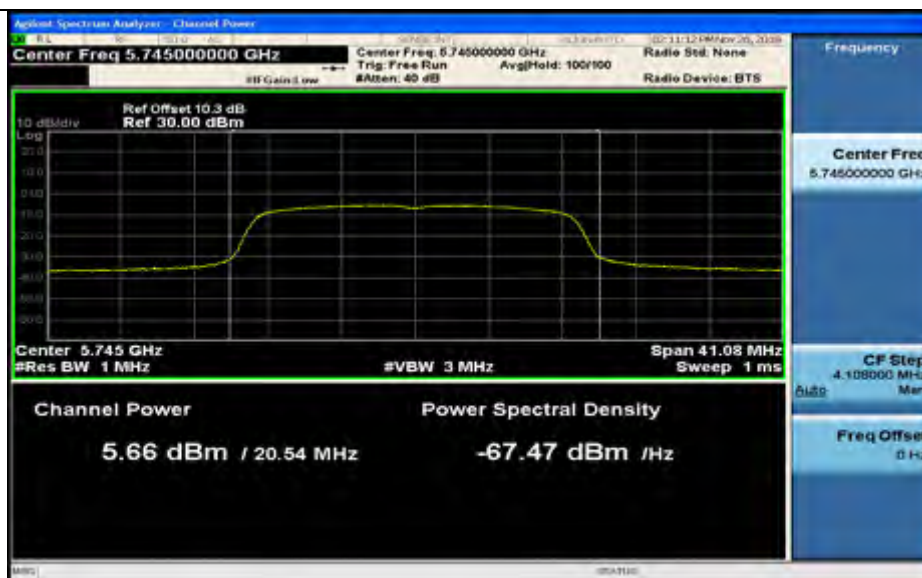
Maximum Conduct Output Power\_11N20\_5220\_Ant1



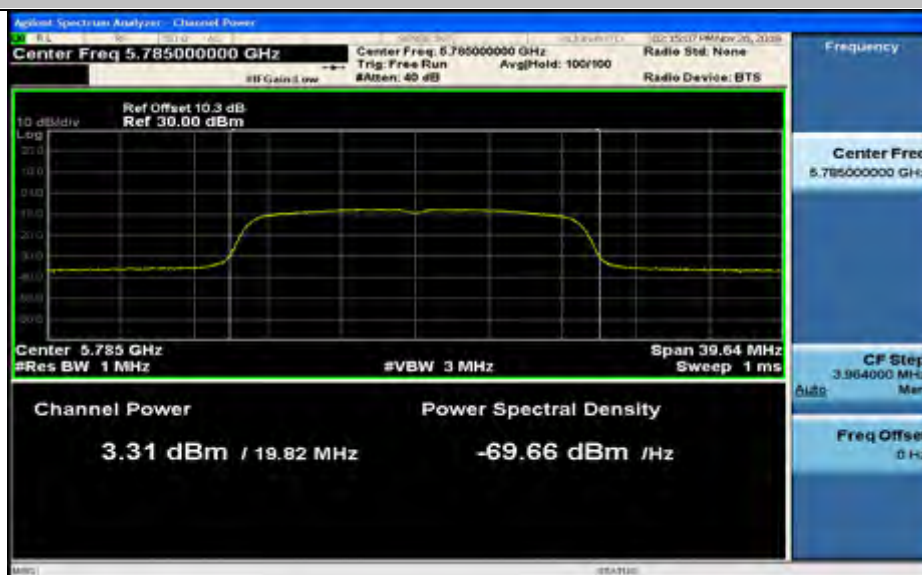
Maximum Conduct Output Power\_11N20\_5240\_Ant1



Maximum Conduct Output Power\_11N20\_5745\_Ant1



Maximum Conduct Output Power\_11N20\_5785\_Ant1



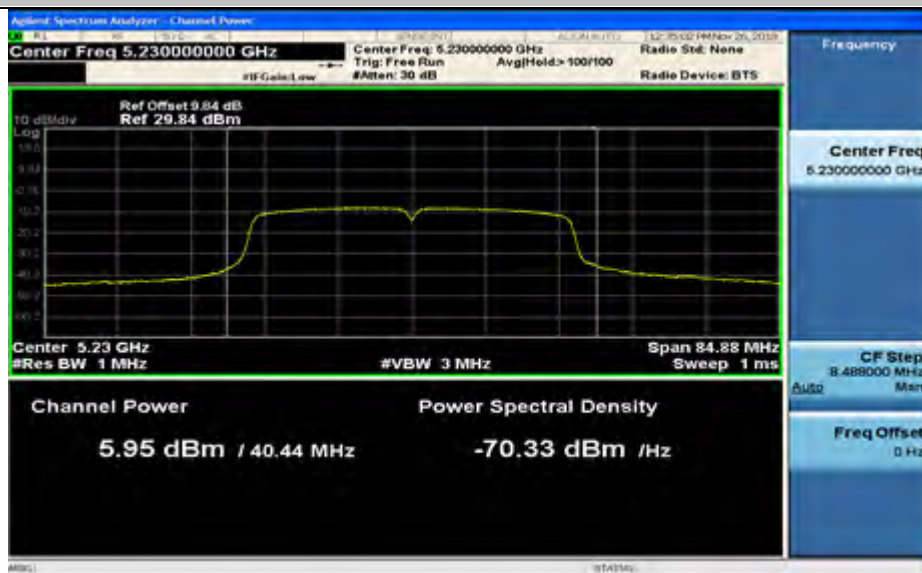
Maximum Conduct Output Power\_11N20\_5825\_Ant1



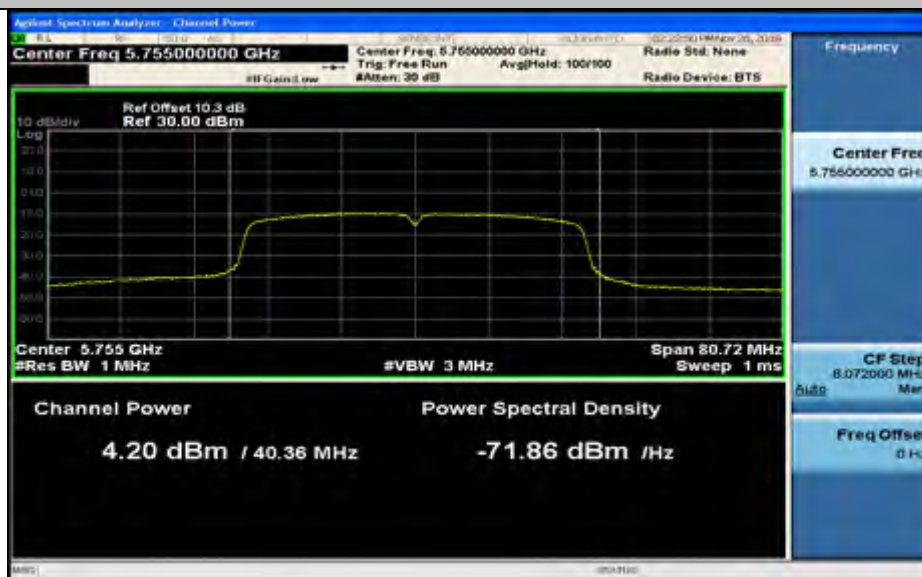
Maximum Conduct Output Power\_11N40\_5190\_Ant1



Maximum Conduct Output Power\_11N40\_5230\_Ant1

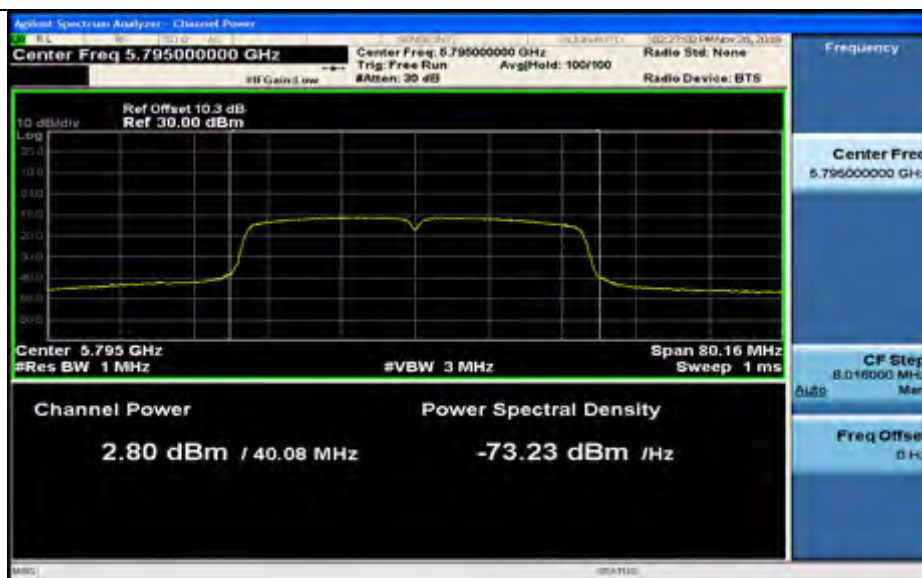


Maximum Conduct Output Power\_11N40\_5755\_Ant1

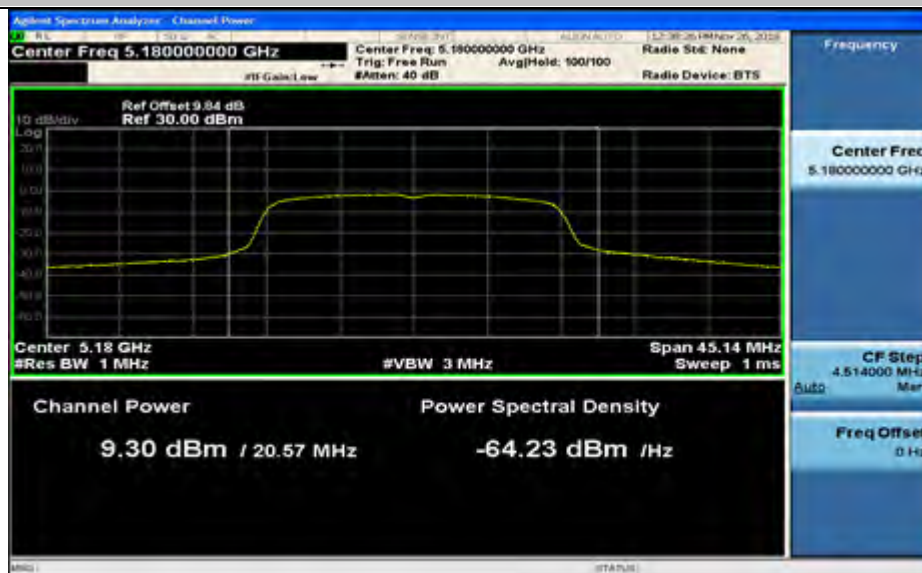


Maximum Conduct Output Power\_11N40\_5795\_Ant1

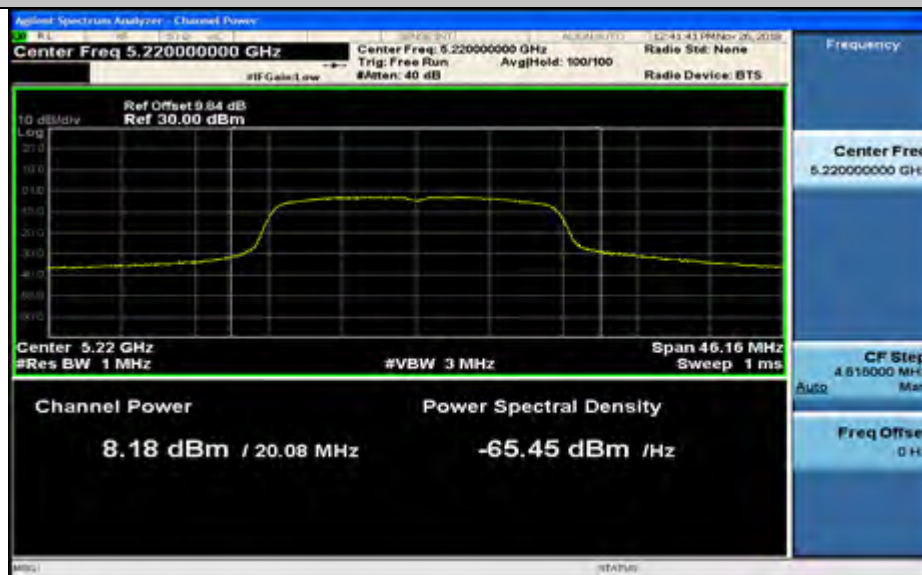




Maximum Conduct Output Power\_11AC20\_5180\_Ant1



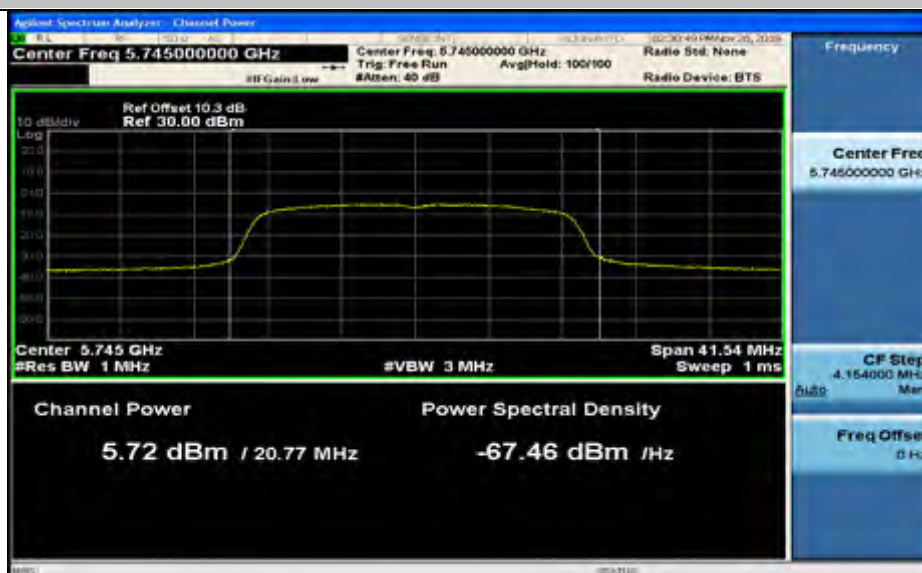
Maximum Conduct Output Power\_11AC20\_5220\_Ant1



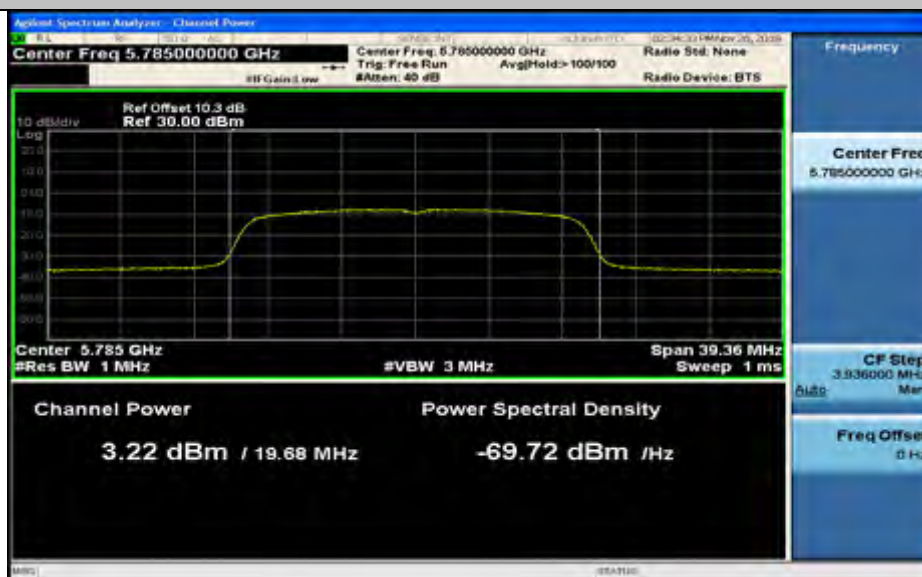
Maximum Conduct Output Power\_11AC20\_5240\_Ant1



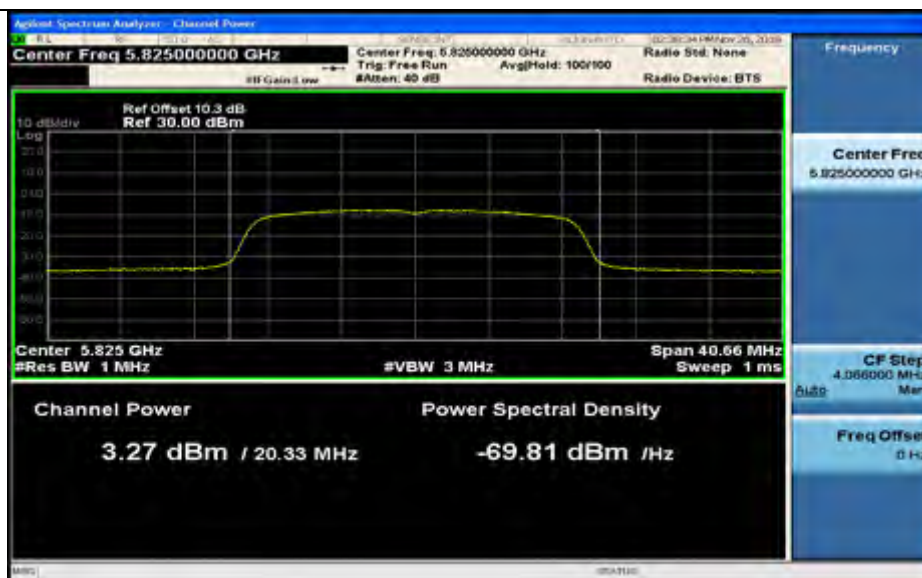
Maximum Conduct Output Power\_11AC20\_5745\_Ant1



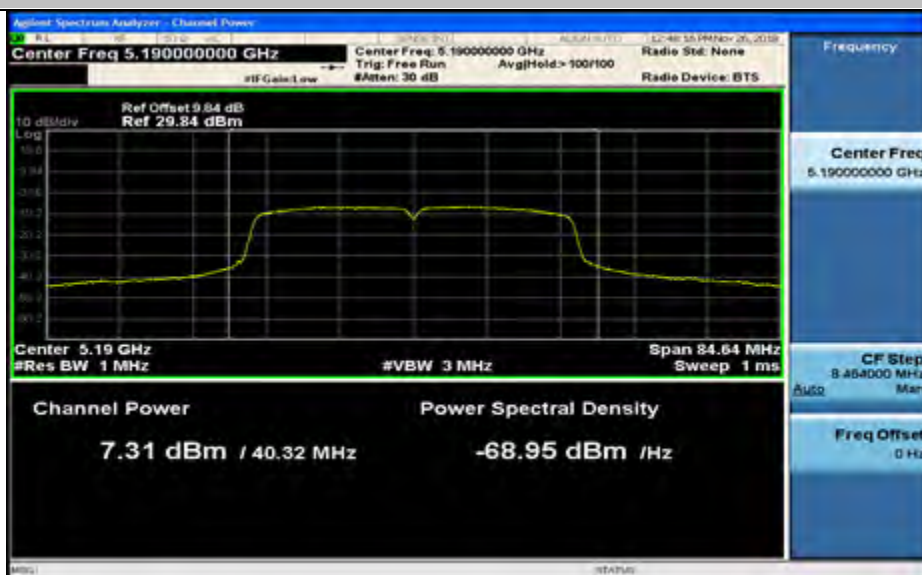
Maximum Conduct Output Power\_11AC20\_5785\_Ant1



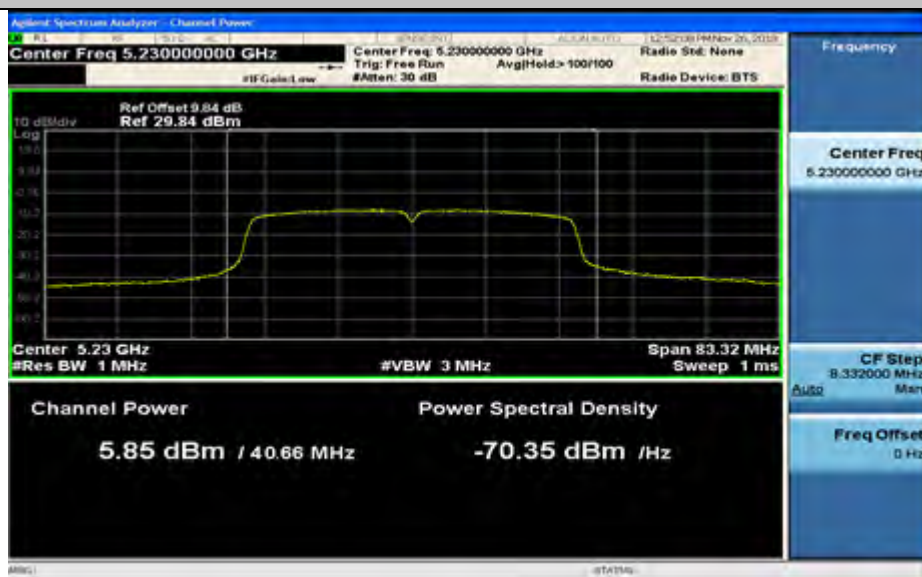
Maximum Conduct Output Power\_11AC20\_5825\_Ant1



Maximum Conduct Output Power\_11AC40\_5190\_Ant1

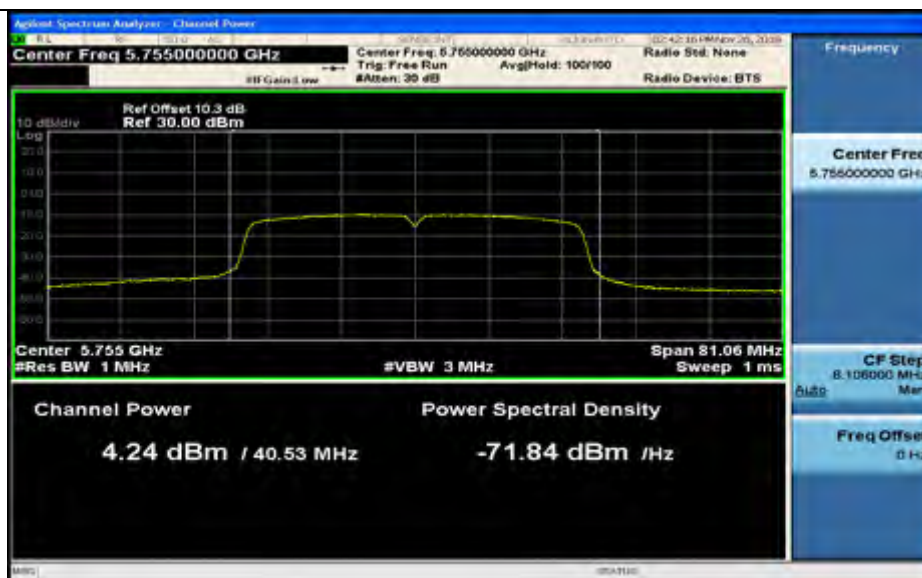


Maximum Conduct Output Power\_11AC40\_5230\_Ant1

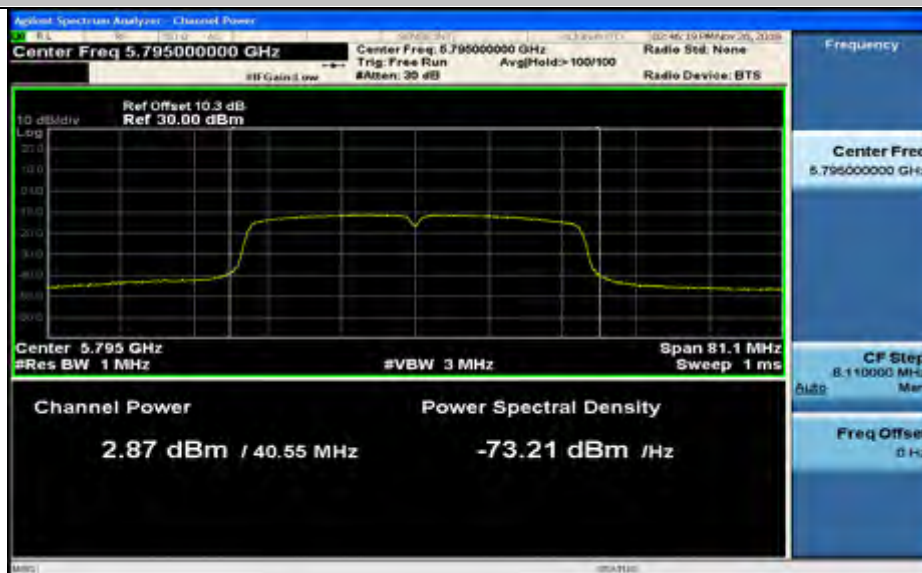


Maximum Conduct Output Power\_11AC40\_5755\_Ant1





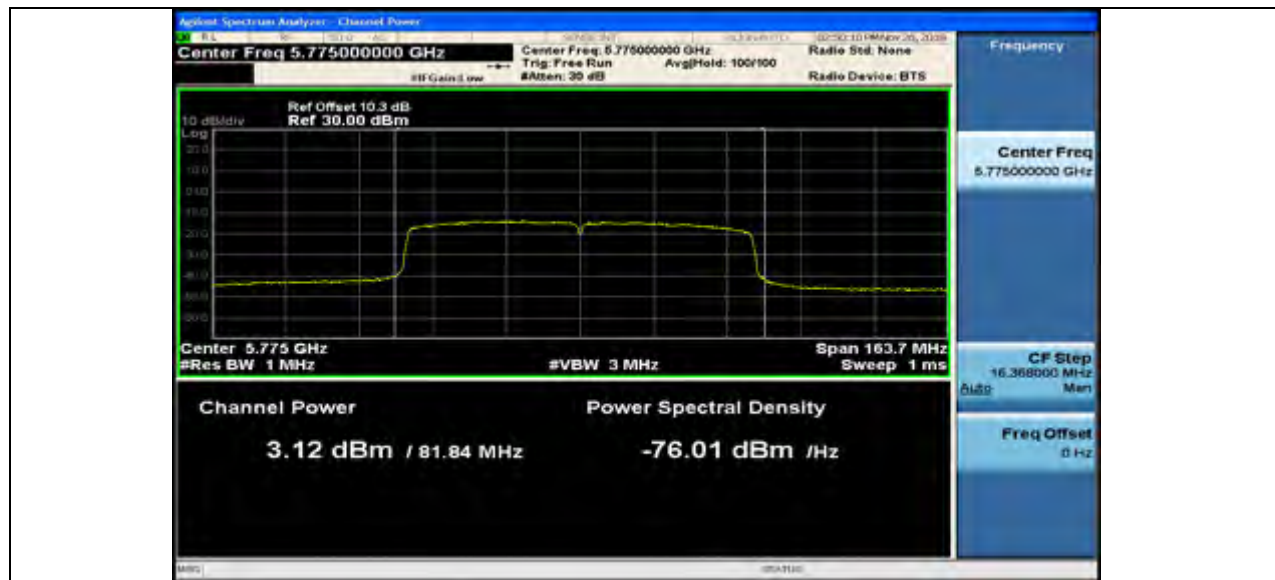
Maximum Conduct Output Power\_11AC40\_5795\_Ant1



Maximum Conduct Output Power\_11AC80\_5210\_Ant1



Maximum Conduct Output Power\_11AC80\_5775\_Ant1



## 5.Maximum Power Spectral Density For FCC

| Test Mode | Test Channel | Ant  | Level [dBm/MHz] | 10log(1/x) Factor [dB] | PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|------|-----------------|------------------------|---------------|-----------------|---------|
| 11A       | 5180         | Ant1 | -0.83           | 0.35                   | -0.48         | 11.00           | PASS    |
| 11A       | 5220         | Ant1 | -1.9            | 0.24                   | -1.66         | 11.00           | PASS    |
| 11A       | 5240         | Ant1 | -2.28           | 0.35                   | -1.93         | 11.00           | PASS    |
| 11N20     | 5180         | Ant1 | -1.15           | 0.25                   | -0.90         | 11.00           | PASS    |
| 11N20     | 5220         | Ant1 | -2.38           | 0.25                   | -2.13         | 11.00           | PASS    |
| 11N20     | 5240         | Ant1 | -2.74           | 0.25                   | -2.49         | 11.00           | PASS    |
| 11N40     | 5190         | Ant1 | -6.3            | 0.44                   | -5.86         | 11.00           | PASS    |
| 11N40     | 5230         | Ant1 | -7.82           | 0.67                   | -7.15         | 11.00           | PASS    |
| 11AC20    | 5180         | Ant1 | -1.19           | 0.27                   | -0.92         | 11.00           | PASS    |
| 11AC20    | 5220         | Ant1 | -2.34           | 0.34                   | -2.00         | 11.00           | PASS    |
| 11AC20    | 5240         | Ant1 | -2.66           | 0.29                   | -2.37         | 11.00           | PASS    |
| 11AC40    | 5190         | Ant1 | -6.25           | 0.48                   | -5.77         | 11.00           | PASS    |
| 11AC40    | 5230         | Ant1 | -7.86           | 0.48                   | -7.38         | 11.00           | PASS    |
| 11AC80    | 5210         | Ant1 | -11.3           | 1.15                   | -10.15        | 11.00           | PASS    |

| Test Mode | Test Channel | Ant  | Level [dBm/500kHz] | 10log(1/x) Factor[dB] | 10log(500kHz/RBW) Factor [dB] | PSD [dBm/500kHz] | Limit [dBm/500kHz] | Verdict |
|-----------|--------------|------|--------------------|-----------------------|-------------------------------|------------------|--------------------|---------|
| 11A       | 5745         | Ant1 | -9.95              | 0.35                  | 2.22                          | -7.38            | 17.00              | PASS    |
| 11A       | 5785         | Ant1 | -12.48             | 0.23                  | 2.22                          | -10.03           | 17.00              | PASS    |
| 11A       | 5825         | Ant1 | -12.24             | 0.28                  | 2.22                          | -9.74            | 17.00              | PASS    |
| 11N20     | 5745         | Ant1 | -10.38             | 0.25                  | 2.22                          | -7.91            | 17.00              | PASS    |
| 11N20     | 5785         | Ant1 | -12.59             | 0.29                  | 2.22                          | -10.08           | 17.00              | PASS    |
| 11N20     | 5825         | Ant1 | -12.46             | 0.34                  | 2.22                          | -9.90            | 17.00              | PASS    |
| 11N40     | 5755         | Ant1 | -14.95             | 0.59                  | 2.22                          | -12.14           | 17.00              | PASS    |
| 11N40     | 5795         | Ant1 | -16.32             | 0.44                  | 2.22                          | -13.66           | 17.00              | PASS    |
| 11AC20    | 5745         | Ant1 | -10.09             | 0.24                  | 2.22                          | -7.63            | 17.00              | PASS    |
| 11AC20    | 5785         | Ant1 | -12.57             | 0.28                  | 2.22                          | -10.07           | 17.00              | PASS    |
| 11AC20    | 5825         | Ant1 | -12.61             | 0.24                  | 2.22                          | -10.15           | 17.00              | PASS    |
| 11AC40    | 5755         | Ant1 | -14.88             | 0.48                  | 2.22                          | -12.18           | 17.00              | PASS    |
| 11AC40    | 5795         | Ant1 | -16.47             | 0.44                  | 2.22                          | -13.81           | 17.00              | PASS    |
| 11AC80    | 5775         | Ant1 | -19                | 1.13                  | 2.22                          | -15.65           | 17.00              | PASS    |





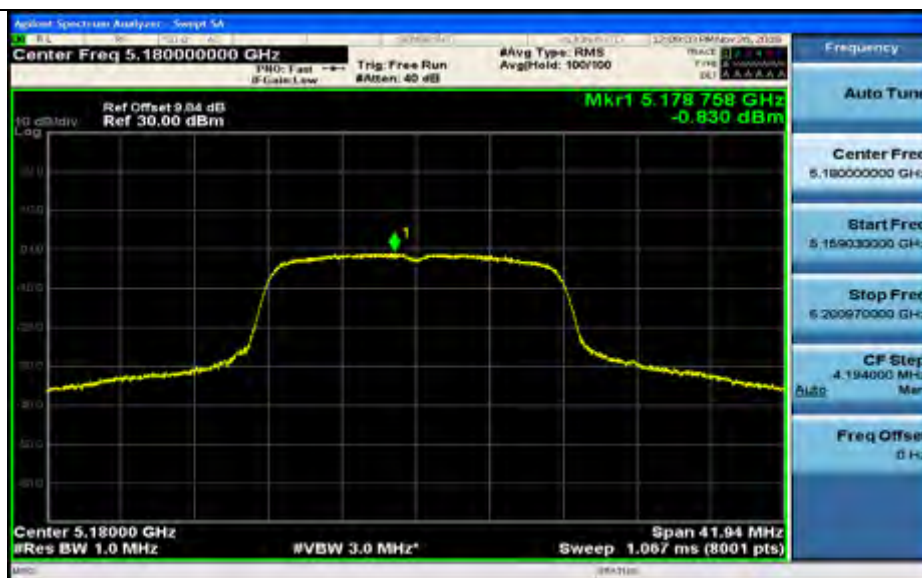
**SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.**

### 5.1 Maximum Power Spectral Density for ISED

| Test Mode | Test Channel | Ant  | Level [dBm/MHz] | 10log(1/x) Factor [dB] | PSD [dBm/MHz] | EIRP PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|------|-----------------|------------------------|---------------|--------------------|-----------------|---------|
| 11A       | 5180         | Ant1 | -0.83           | 0.35                   | -0.48         | 1.52               | 10.00           | PASS    |
| 11A       | 5220         | Ant1 | -1.9            | 0.24                   | -1.66         | 0.34               | 10.00           | PASS    |
| 11A       | 5240         | Ant1 | -2.28           | 0.35                   | -1.93         | 0.07               | 10.00           | PASS    |
| 11N20     | 5180         | Ant1 | -1.15           | 0.25                   | -0.90         | 1.1                | 10.00           | PASS    |
| 11N20     | 5220         | Ant1 | -2.38           | 0.25                   | -2.13         | -0.13              | 10.00           | PASS    |
| 11N20     | 5240         | Ant1 | -2.74           | 0.25                   | -2.49         | -0.49              | 10.00           | PASS    |
| 11N40     | 5190         | Ant1 | -6.3            | 0.44                   | -5.86         | -3.86              | 10.00           | PASS    |
| 11N40     | 5230         | Ant1 | -7.82           | 0.67                   | -7.15         | -5.15              | 10.00           | PASS    |
| 11AC20    | 5180         | Ant1 | -1.19           | 0.27                   | -0.92         | 1.08               | 10.00           | PASS    |
| 11AC20    | 5220         | Ant1 | -2.34           | 0.34                   | -2.00         | 0                  | 10.00           | PASS    |
| 11AC20    | 5240         | Ant1 | -2.66           | 0.29                   | -2.37         | -0.37              | 10.00           | PASS    |
| 11AC40    | 5190         | Ant1 | -6.25           | 0.48                   | -5.77         | -3.77              | 10.00           | PASS    |
| 11AC40    | 5230         | Ant1 | -7.86           | 0.48                   | -7.38         | -5.38              | 10.00           | PASS    |
| 11AC80    | 5210         | Ant1 | -11.3           | 1.15                   | -10.15        | -8.15              | 10.00           | PASS    |

| Test Mode | Test Channel | Ant  | Level [dBm/500kHz] | 10log(1/x) Factor [dB] | 10log(500kHz/RBW) Factor [dB] | PSD [dBm/500kHz] | Limit [dBm/500kHz] | Verdict |
|-----------|--------------|------|--------------------|------------------------|-------------------------------|------------------|--------------------|---------|
| 11A       | 5745         | Ant1 | -9.95              | 0.35                   | 2.22                          | -7.38            | 17.00              | PASS    |
| 11A       | 5785         | Ant1 | -12.48             | 0.23                   | 2.22                          | -10.03           | 17.00              | PASS    |
| 11A       | 5825         | Ant1 | -12.24             | 0.28                   | 2.22                          | -9.74            | 17.00              | PASS    |
| 11N20     | 5745         | Ant1 | -10.38             | 0.25                   | 2.22                          | -7.91            | 17.00              | PASS    |
| 11N20     | 5785         | Ant1 | -12.59             | 0.29                   | 2.22                          | -10.08           | 17.00              | PASS    |
| 11N20     | 5825         | Ant1 | -12.46             | 0.34                   | 2.22                          | -9.90            | 17.00              | PASS    |
| 11N40     | 5755         | Ant1 | -14.95             | 0.59                   | 2.22                          | -12.14           | 17.00              | PASS    |
| 11N40     | 5795         | Ant1 | -16.32             | 0.44                   | 2.22                          | -13.66           | 17.00              | PASS    |
| 11AC20    | 5745         | Ant1 | -10.09             | 0.24                   | 2.22                          | -7.63            | 17.00              | PASS    |
| 11AC20    | 5785         | Ant1 | -12.57             | 0.28                   | 2.22                          | -10.07           | 17.00              | PASS    |
| 11AC20    | 5825         | Ant1 | -12.61             | 0.24                   | 2.22                          | -10.15           | 17.00              | PASS    |
| 11AC40    | 5755         | Ant1 | -14.88             | 0.48                   | 2.22                          | -12.18           | 17.00              | PASS    |
| 11AC40    | 5795         | Ant1 | -16.47             | 0.44                   | 2.22                          | -13.81           | 17.00              | PASS    |
| 11AC80    | 5775         | Ant1 | -19                | 1.13                   | 2.22                          | -15.65           | 17.00              | PASS    |

Maximum Power Spectral Density\_TNVN\_11A\_5180\_Ant1



Maximum Power Spectral Density\_TNVN\_11A\_5220\_Ant1

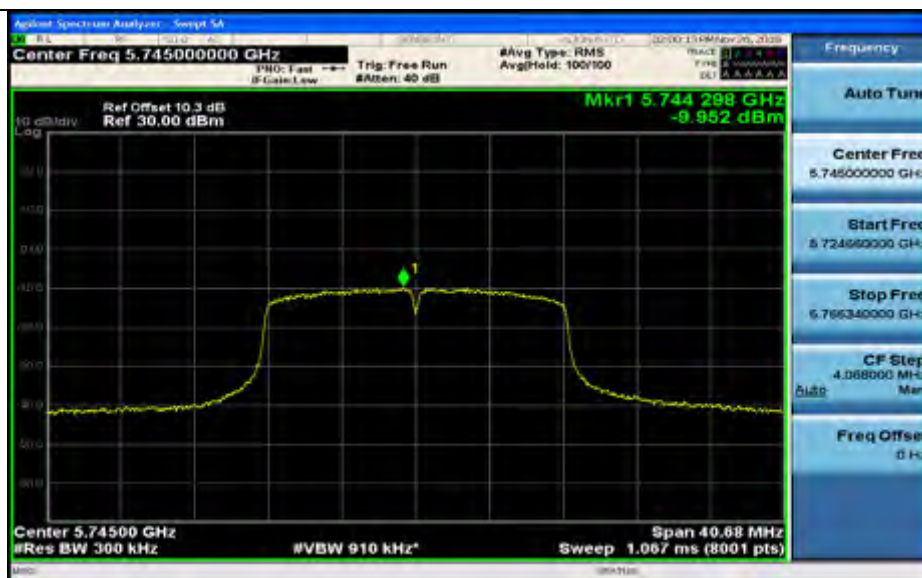


Maximum Power Spectral Density\_TNVN\_11A\_5240\_Ant1

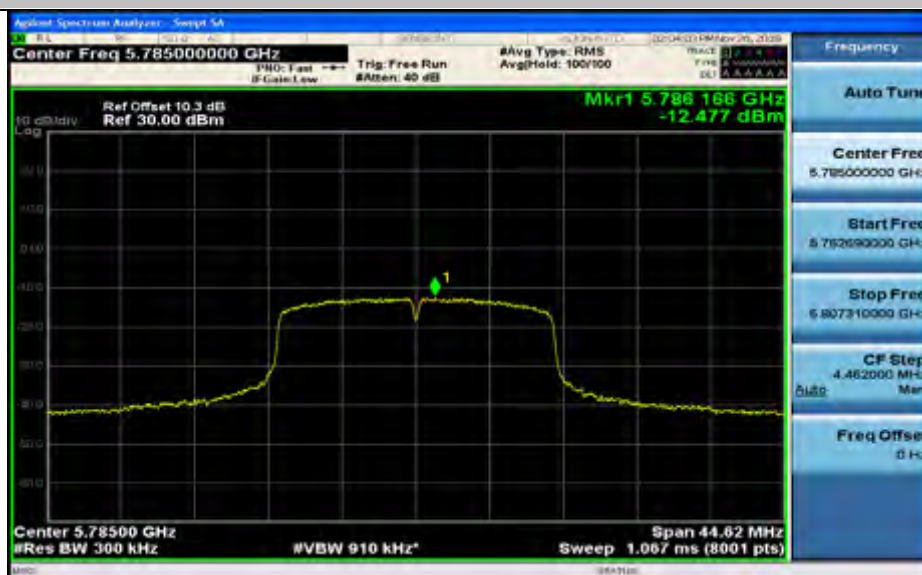


Maximum Power Spectral Density\_TNVN\_11A\_5745\_Ant1

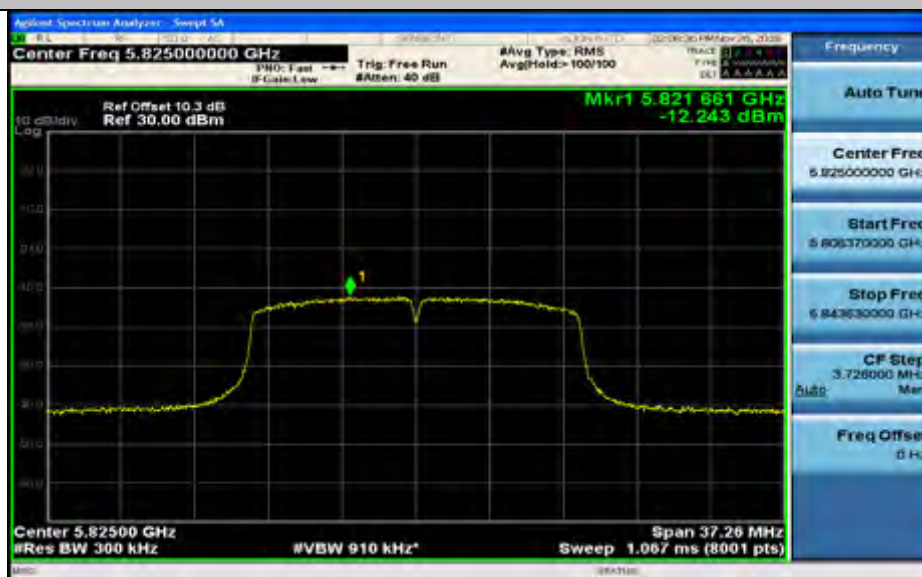




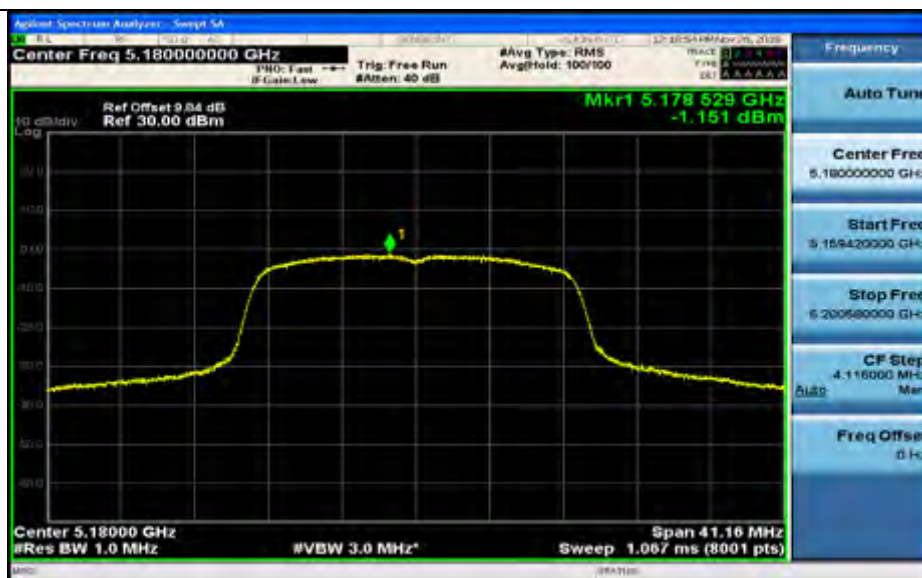
Maximum Power Spectral Density\_TNVN\_11A\_5785\_Ant1



Maximum Power Spectral Density\_TNVN\_11A\_5825\_Ant1



Maximum Power Spectral Density\_TNVN\_11N20\_5180\_Ant1



Maximum Power Spectral Density\_TNVN\_11N20\_5220\_Ant1

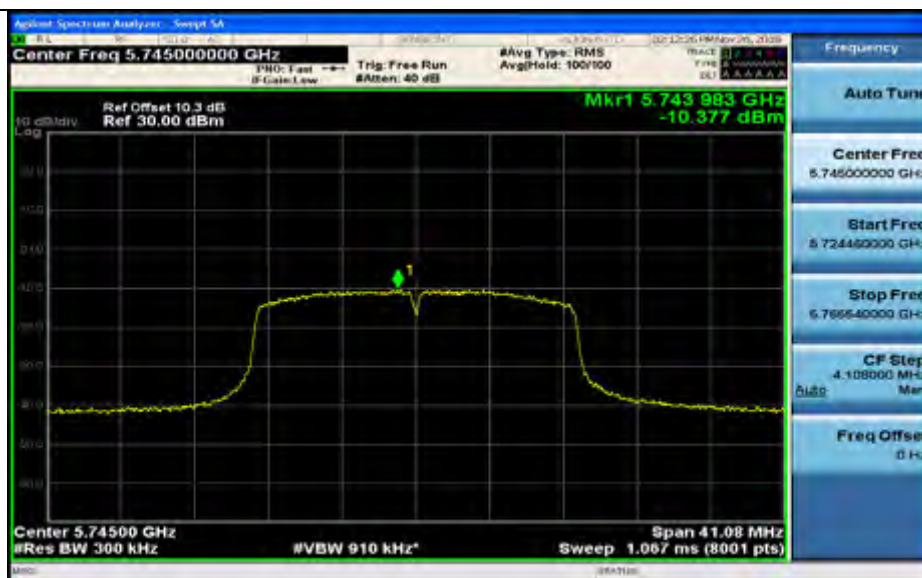


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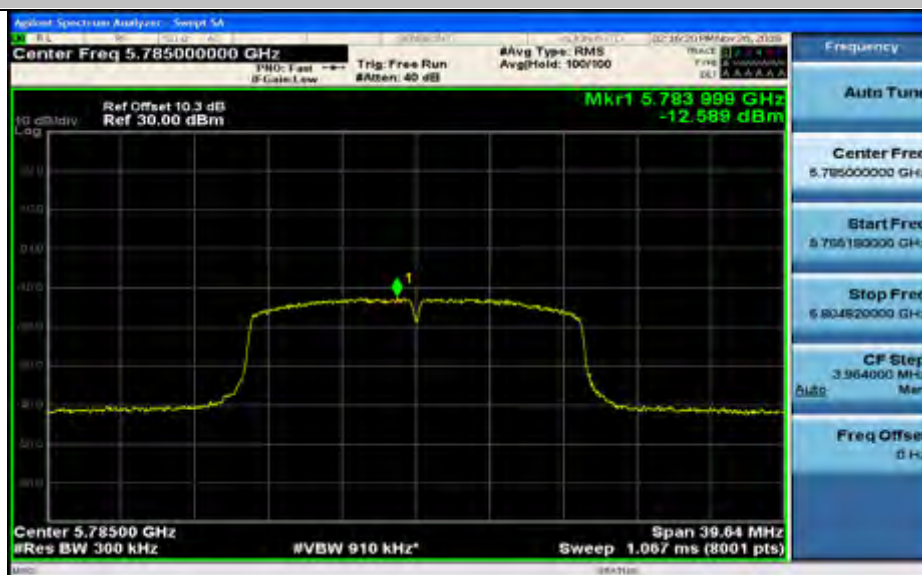


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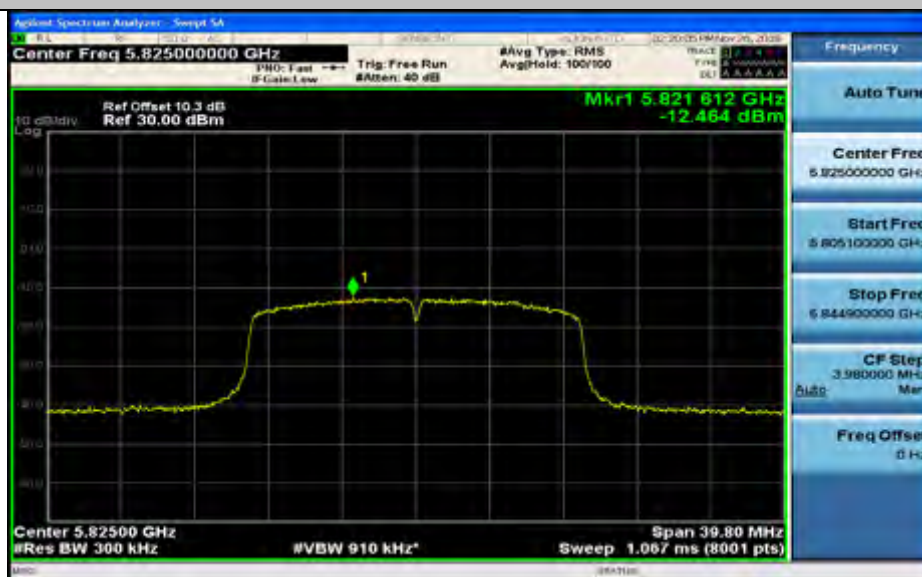




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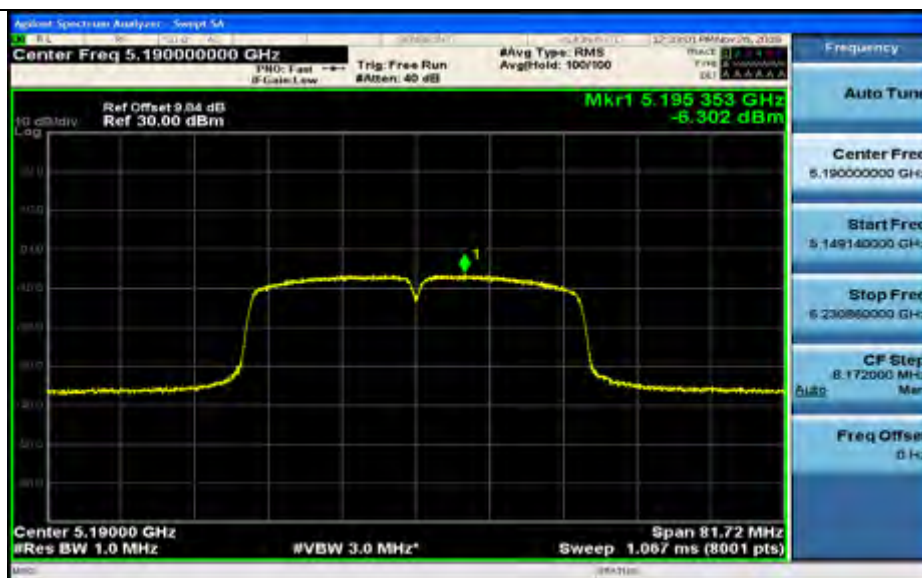


Maximum Power Spectral Density\_TNVN\_11N20\_5825\_Ant1

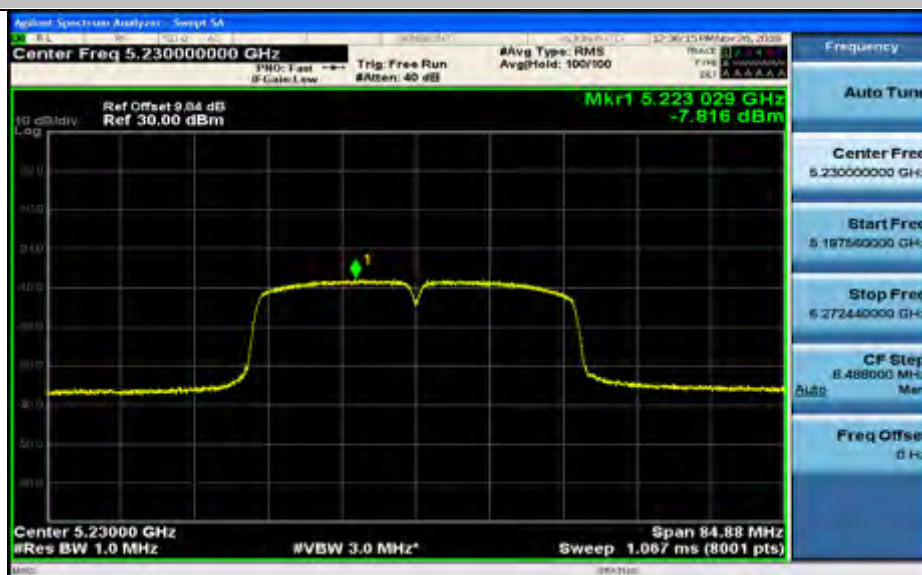


Maximum Power Spectral Density\_TNVN\_11N40\_5190\_Ant1





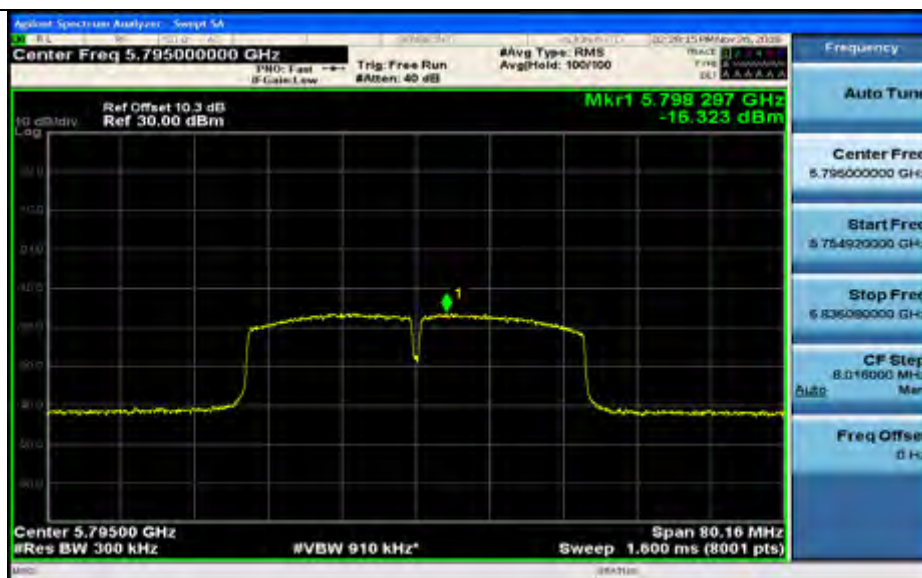
Maximum Power Spectral Density\_TNVN\_11N40\_5230\_Ant1



Maximum Power Spectral Density\_TNVN\_11N40\_5755\_Ant1



Maximum Power Spectral Density\_TNVN\_11N40\_5795\_Ant1



Maximum Power Spectral Density\_TNVN\_11AC20\_5180\_Ant1



Maximum Power Spectral Density\_TNVN\_11AC20\_5220\_Ant1

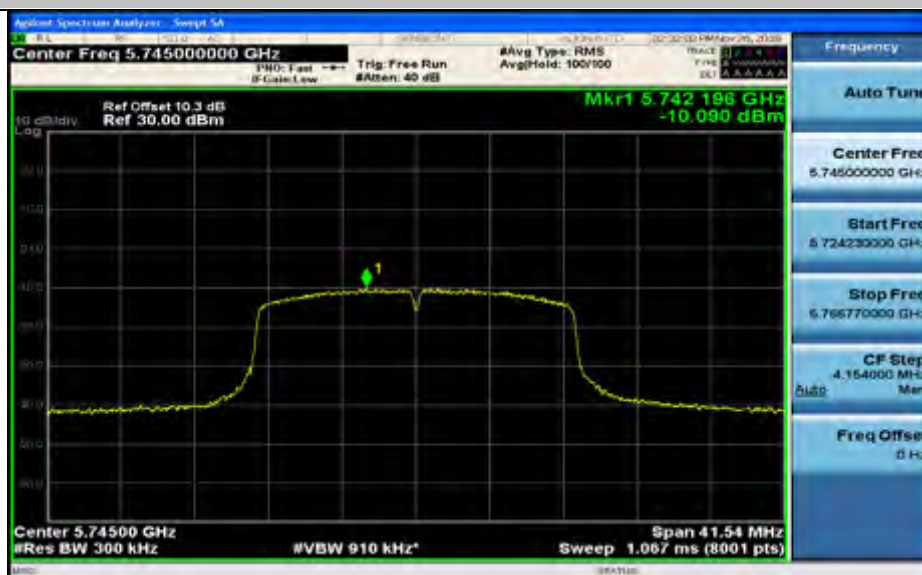


Maximum Power Spectral Density\_TNVN\_11AC20\_5240\_Ant1





Maximum Power Spectral Density\_TNVN\_11AC20\_5745\_Ant1

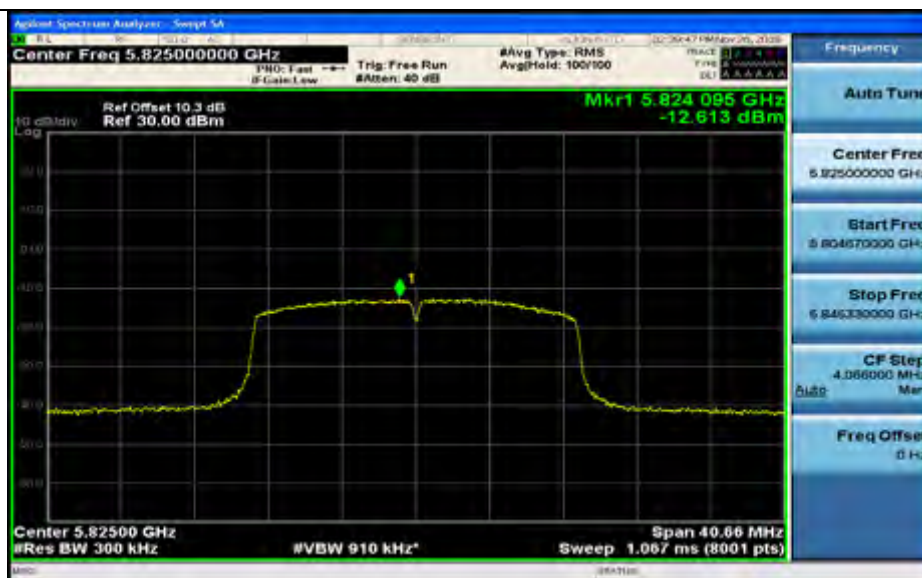


Maximum Power Spectral Density\_TNVN\_11AC20\_5785\_Ant1

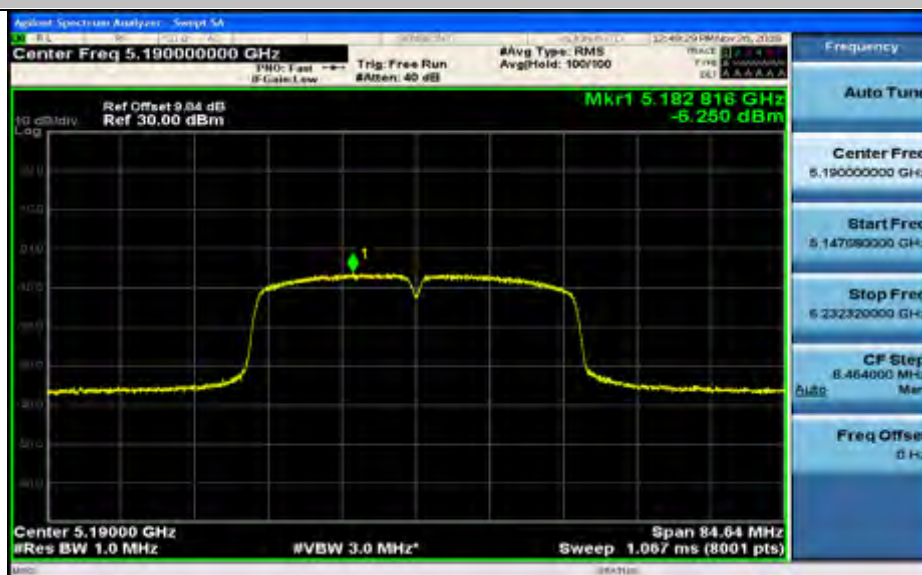


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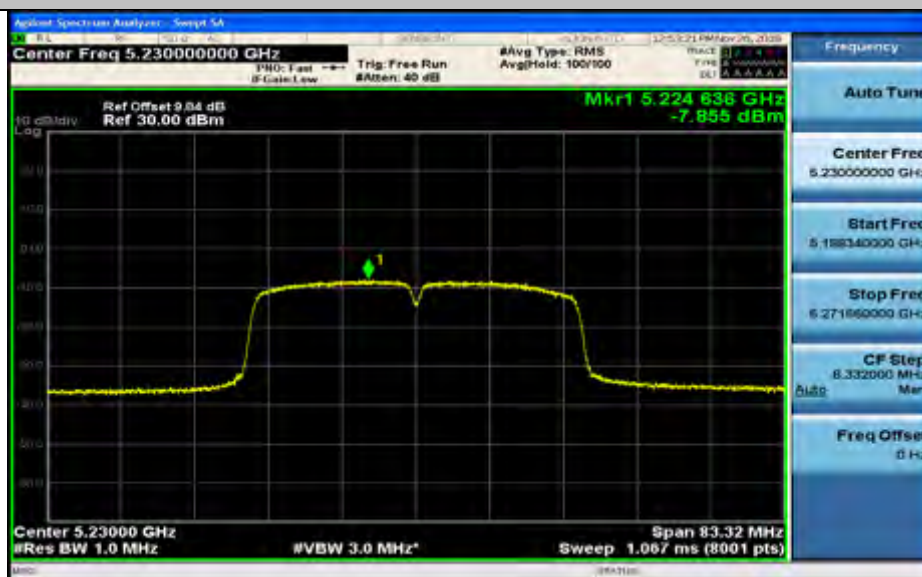




Maximum Power Spectral Density\_TNVN\_11AC40\_5190\_Ant1



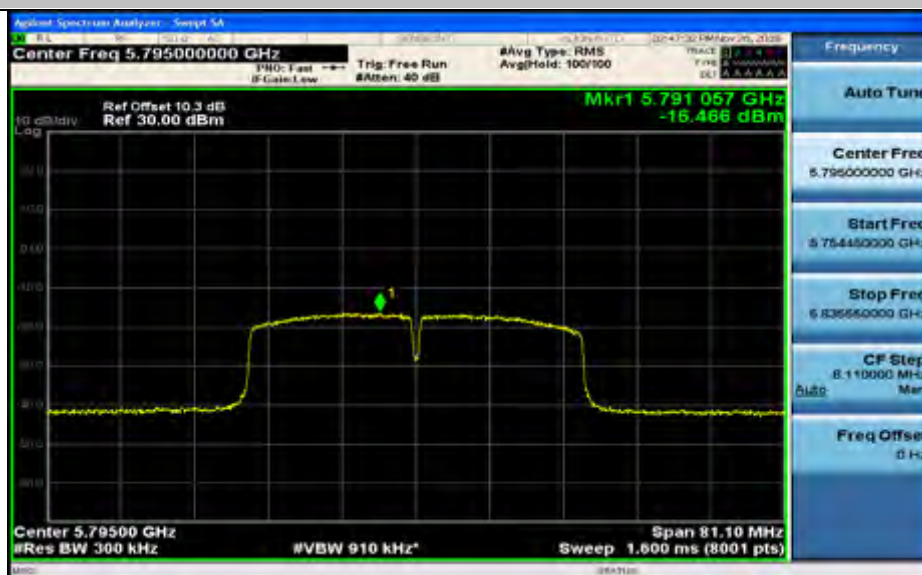
Maximum Power Spectral Density\_TNVN\_11AC40\_5230\_Ant1



Maximum Power Spectral Density\_TNVN\_11AC40\_5755\_Ant1



Maximum Power Spectral Density\_TNVN\_11AC40\_5795\_Ant1



Maximum Power Spectral Density\_TNVN\_11AC80\_5210\_Ant1



Maximum Power Spectral Density\_TNVN\_11AC80\_5775\_Ant1





## 6.Frequency Stability

| Band         | Test Conditions |              | Operation Frequency (MHz) | Test Frequency (MHz) | Freq. Dev. (MHz) | Limit (GHz) | Result |
|--------------|-----------------|--------------|---------------------------|----------------------|------------------|-------------|--------|
|              | Volt (V AC)     | Temp (C°)    |                           |                      |                  |             |        |
| Band U-NII 1 | Normal(120)     | Extreme(-20) | 5180                      | 5180.0312            | 0.0312           | 5.15-5.25   | Pass   |
|              |                 | Extreme(-10) |                           | 5180.0369            | 0.0369           |             | Pass   |
|              |                 | Extreme(0)   |                           | 5180.0385            | 0.0385           |             | Pass   |
|              |                 | Extreme(+10) |                           | 5180.0327            | 0.0327           |             | Pass   |
|              |                 | Extreme(+20) |                           | 5180.0298            | 0.0298           |             | Pass   |
|              |                 | Extreme(+30) |                           | 5180.0396            | 0.0396           |             | Pass   |
|              |                 | Extreme(+40) |                           | 5180.0294            | 0.0294           |             | Pass   |
|              |                 | Extreme(+55) |                           | 5180.0501            | 0.0501           |             | Pass   |
|              | Extreme(85)     | Norma(+20)   |                           | 5180.0163            | 0.0163           |             | Pass   |
|              | Extreme(276)    |              |                           | 5180.0365            | 0.0365           |             | Pass   |
|              | Normal(120)     | Extreme(-20) | 5240                      | 5240.0269            | 0.0269           |             | Pass   |
|              |                 | Extreme(-10) |                           | 5240.0285            | 0.0285           |             | Pass   |
|              |                 | Extreme(0)   |                           | 5240.0398            | 0.0398           |             | Pass   |
|              |                 | Extreme(+10) |                           | 5240.0375            | 0.0375           |             | Pass   |
|              |                 | Extreme(+20) |                           | 5240.0485            | 0.0485           |             | Pass   |
|              |                 | Extreme(+30) |                           | 5240.0236            | 0.0236           |             | Pass   |
|              |                 | Extreme(+40) |                           | 5240.0138            | 0.0138           |             | Pass   |
|              |                 | Extreme(+55) |                           | 5240.0496            | 0.0496           |             | Pass   |
|              | Extreme(85)     | Norma(20)    |                           | 5240.0428            | 0.0428           |             | Pass   |
|              | Extreme(276)    |              |                           | 5240.0362            | 0.0362           |             | Pass   |

| Band         | Test Conditions |              | Operation Frequency (MHz) | Test Frequency (MHz) | Freq. Dev. (MHz) | Limit (GHz) | Result |
|--------------|-----------------|--------------|---------------------------|----------------------|------------------|-------------|--------|
|              | Volt (V AC)     | Temp (C°)    |                           |                      |                  |             |        |
| Band U-NII 3 | Normal(120)     | Extreme(-20) | 5745                      | 5745.0485            | 0.0485           | 5.725-5.85  | Pass   |
|              |                 | Extreme(-10) |                           | 5745.0378            | 0.0378           |             | Pass   |
|              |                 | Extreme(0)   |                           | 5745.0256            | 0.0256           |             | Pass   |
|              |                 | Extreme(+10) |                           | 5745.0148            | 0.0148           |             | Pass   |
|              |                 | Extreme(+20) |                           | 5745.0299            | 0.0299           |             | Pass   |
|              |                 | Extreme(+30) |                           | 5745.0410            | 0.0410           |             | Pass   |
|              |                 | Extreme(+40) |                           | 5745.0322            | 0.0322           |             | Pass   |
|              |                 | Extreme(+55) |                           | 5745.0258            | 0.0258           |             | Pass   |
|              | Extreme(85)     | Norma(+20)   |                           | 5745.0396            | 0.0396           |             | Pass   |
|              | Extreme(276)    |              |                           | 5745.0465            | 0.0465           |             | Pass   |
|              | Normal(120)     | Extreme(-20) | 5825                      | 5825.0413            | 0.0413           |             | Pass   |
|              |                 | Extreme(-10) |                           | 5825.0425            | 0.0425           |             | Pass   |
|              |                 | Extreme(0)   |                           | 5825.0226            | 0.0226           |             | Pass   |
|              |                 | Extreme(+10) |                           | 5825.0227            | 0.0227           |             | Pass   |
|              |                 | Extreme(+20) |                           | 5825.0196            | 0.0196           |             | Pass   |
|              |                 | Extreme(+30) |                           | 5825.0342            | 0.0342           |             | Pass   |
|              |                 | Extreme(+40) |                           | 5825.0163            | 0.0163           |             | Pass   |
|              |                 | Extreme(+55) |                           | 5825.0275            | 0.0275           |             | Pass   |
|              | Extreme(85)     | Norma(20)    |                           | 5825.0403            | 0.0403           |             | Pass   |
|              | Extreme(276)    |              |                           | 5825.0198            | 0.0198           |             | Pass   |

Remark: Based on the results of the frequency stability test shown above the frequency deviation results

measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

## 7.Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11A       | 5180         | Ant1 | 92.17         | 0.35                  |
| 11A       | 5220         | Ant1 | 94.53         | 0.24                  |
| 11A       | 5240         | Ant1 | 92.18         | 0.35                  |
| 11A       | 5745         | Ant1 | 92.18         | 0.35                  |
| 11A       | 5785         | Ant1 | 94.87         | 0.23                  |
| 11A       | 5825         | Ant1 | 93.77         | 0.28                  |
| 11N20     | 5180         | Ant1 | 94.51         | 0.25                  |
| 11N20     | 5220         | Ant1 | 94.39         | 0.25                  |
| 11N20     | 5240         | Ant1 | 94.51         | 0.25                  |
| 11N20     | 5745         | Ant1 | 94.51         | 0.25                  |
| 11N20     | 5785         | Ant1 | 93.57         | 0.29                  |
| 11N20     | 5825         | Ant1 | 92.43         | 0.34                  |
| 11N40     | 5190         | Ant1 | 90.31         | 0.44                  |
| 11N40     | 5230         | Ant1 | 85.71         | 0.67                  |
| 11N40     | 5755         | Ant1 | 87.32         | 0.59                  |
| 11N40     | 5795         | Ant1 | 90.29         | 0.44                  |
| 11AC20    | 5180         | Ant1 | 94.06         | 0.27                  |
| 11AC20    | 5220         | Ant1 | 92.47         | 0.34                  |
| 11AC20    | 5240         | Ant1 | 93.60         | 0.29                  |
| 11AC20    | 5745         | Ant1 | 94.53         | 0.24                  |
| 11AC20    | 5785         | Ant1 | 93.72         | 0.28                  |
| 11AC20    | 5825         | Ant1 | 94.53         | 0.24                  |
| 11AC40    | 5190         | Ant1 | 89.47         | 0.48                  |
| 11AC40    | 5230         | Ant1 | 89.47         | 0.48                  |
| 11AC40    | 5755         | Ant1 | 89.45         | 0.48                  |
| 11AC40    | 5795         | Ant1 | 90.34         | 0.44                  |
| 11AC80    | 5210         | Ant1 | 76.69         | 1.15                  |
| 11AC80    | 5775         | Ant1 | 77.12         | 1.13                  |

Duty Cycle\_11A\_5180\_Ant1



Duty Cycle\_11A\_5220\_Ant1



Duty Cycle\_11A\_5240\_Ant1





Duty Cycle\_11A\_5745\_Ant1



Duty Cycle\_11A\_5785\_Ant1



Duty Cycle\_11A\_5825\_Ant1



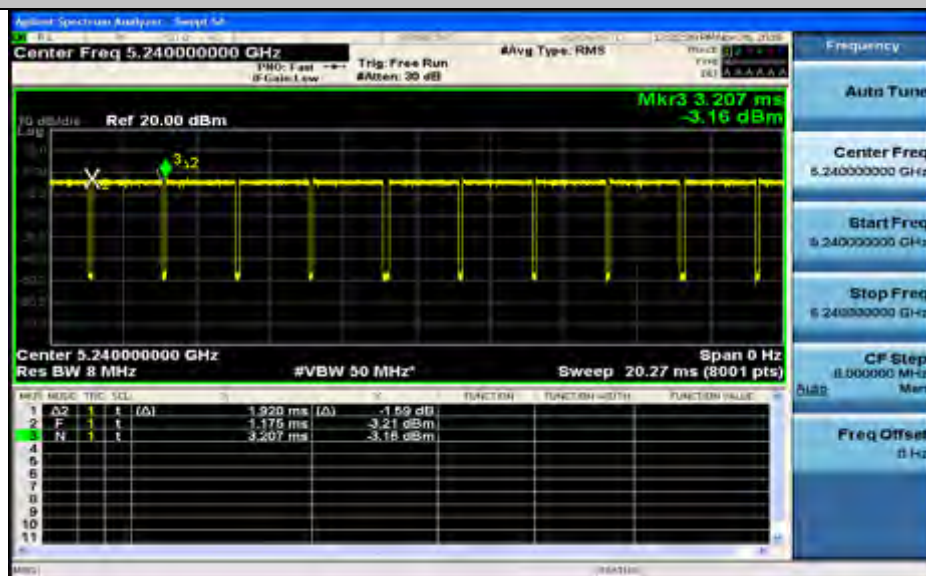
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Duty Cycle\_11N20\_5220\_Ant1



Duty Cycle\_11N20\_5240\_Ant1





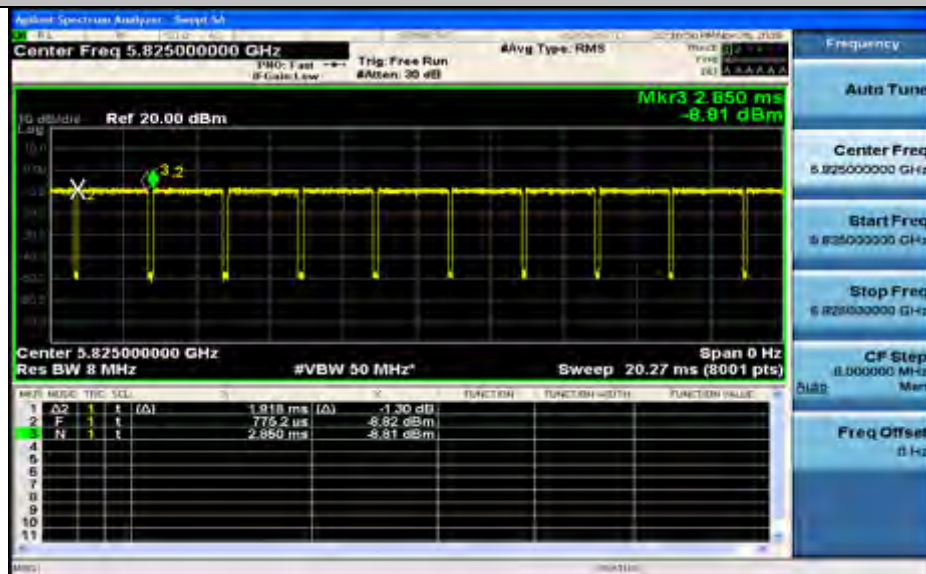
Duty Cycle\_11N20\_5745\_Ant1



Duty Cycle\_11N20\_5785\_Ant1



Duty Cycle\_11N20\_5825\_Ant1





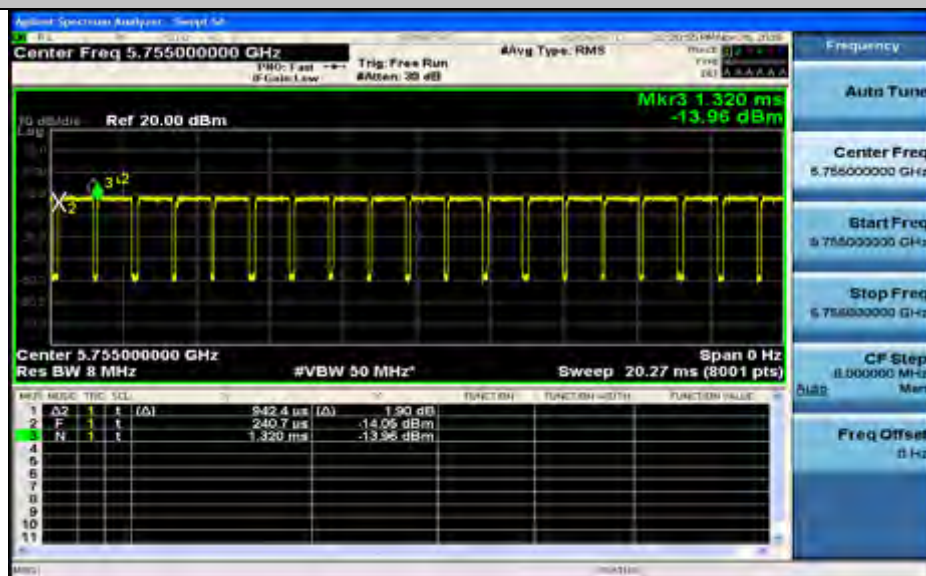
Duty Cycle\_11N40\_5190\_Ant1



Duty Cycle\_11N40\_5230\_Ant1



Duty Cycle\_11N40\_5755\_Ant1



Duty Cycle\_11N40\_5795\_Ant1



Duty Cycle\_11AC20\_5180\_Ant1



Duty Cycle\_11AC20\_5220\_Ant1

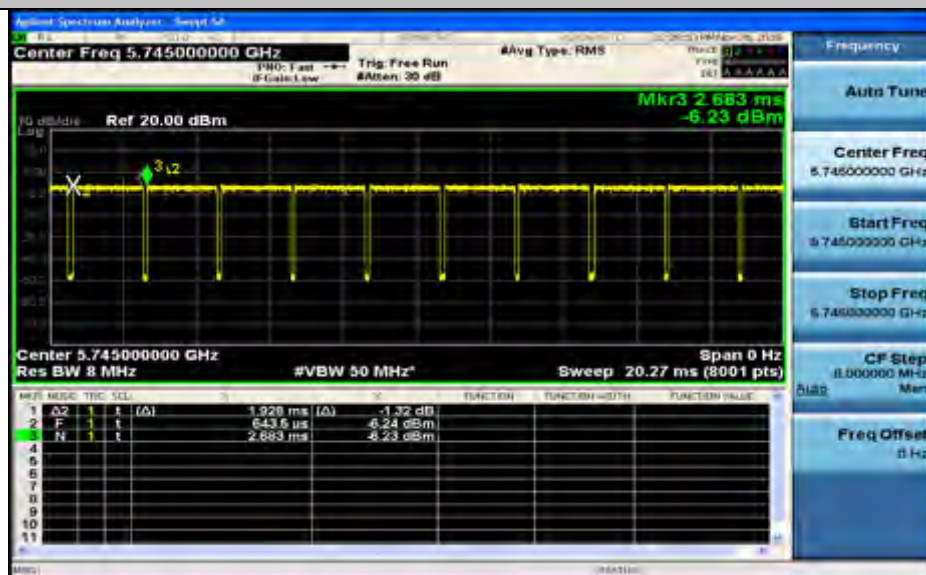




Duty Cycle\_11AC20\_5240\_Ant1



Duty Cycle\_11AC20\_5745\_Ant1



Duty Cycle\_11AC20\_5785\_Ant1





Duty Cycle\_11AC20\_5825\_Ant1



Duty Cycle\_11AC40\_5190\_Ant1



Duty Cycle\_11AC40\_5230\_Ant1



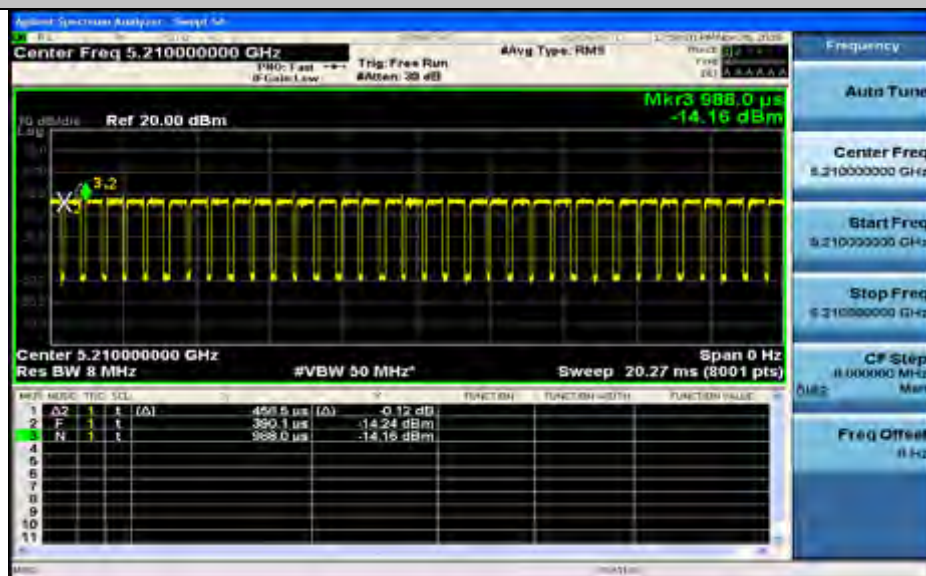
Duty Cycle\_11AC40\_5755\_Ant1



Duty Cycle\_11AC40\_5795\_Ant1



Duty Cycle\_11AC80\_5210\_Ant1



Duty Cycle\_11AC80\_5775\_Ant1

