

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

| Test Mode | Frequency (MHz) | Duty Cycle (%) | Correction Factor(dB) |
|----------------|-----------------|----------------|-----------------------|
| 802.11a | 5180 | 99.52% | 0 |
| 802.11n HT20 | 5180 | 99.42% | 0 |
| 802.11ac VHT20 | 5180 | 99.39% | 0 |
| 802.11n HT40 | 5190 | 98.74% | 0 |
| 802.11ac VHT40 | 5190 | 98.82% | 0 |
| 802.11ac VHT80 | 5210 | 97.60% | 0.11 |

Note: Correction Factor=10*log (1/Duty Cycle)

Output Power

| Mode | Tones/ RUIndex | Freq (MHz) | Antenna | Conducted average power output(dBm) | EIRP (dBm) |
|----------------|-------------------|---------------|---------|--|---------------|
| 802.11a | NA | 5180 | Chain0 | 11.61 | 9.31 |
| 802.11a | NA | 5220 | Chain0 | 11.60 | 9.30 |
| 802.11a | NA | 5240 | Chain0 | 11.77 | 9.47 |
| 802.11ac VHT20 | NA | 5180 | Chain0 | 11.44 | 9.14 |
| 802.11ac VHT20 | NA | 5220 | Chain0 | 11.42 | 9.12 |
| 802.11ac VHT20 | NA | 5240 | Chain0 | 11.60 | 9.30 |
| 802.11ac VHT40 | NA | 5190 | Chain0 | 11.83 | 9.53 |
| 802.11ac VHT40 | NA | 5230 | Chain0 | 11.80 | 9.50 |
| 802.11ac VHT80 | NA | 5210 | Chain0 | 11.53 | 9.23 |
| 802.11n HT20 | NA | 5180 | Chain0 | 11.54 | 9.24 |
| 802.11n HT20 | NA | 5220 | Chain0 | 11.43 | 9.13 |
| 802.11n HT20 | NA | 5240 | Chain0 | 11.59 | 9.29 |
| 802.11n HT40 | NA | 5190 | Chain0 | 11.79 | 9.49 |
| 802.11n HT40 | NA | 5230 | Chain0 | 11.71 | 9.41 |

Emission Bandwidth

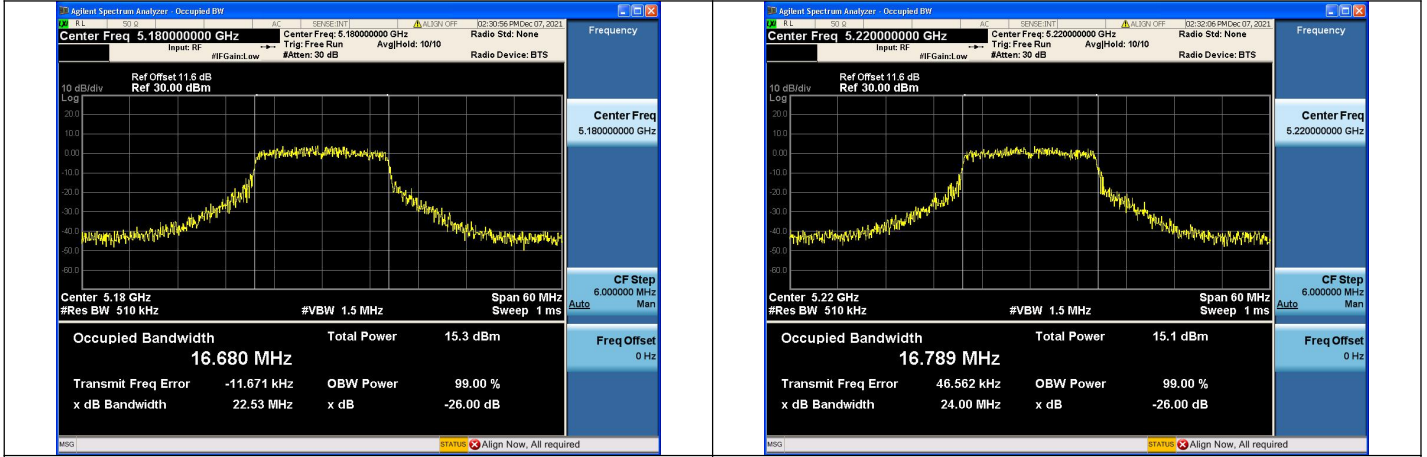
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | 26dB Bandwidth (MHz) | | |
|----------------|---------|----------------------|--------------|--------------|
| | | Channel No.0 | Channel No.1 | Channel No.2 |
| | | 5180MHz | 5220MHz | 5240MHz |
| 802.11a | Chain0 | 22.53 | 24.00 | 23.13 |
| 802.11n HT20 | Chain0 | 24.15 | 23.18 | 23.01 |
| 802.11ac VHT20 | Chain0 | 24.05 | 22.84 | 23.95 |

| Test Mode | Antenna | 26dB Bandwidth (MHz) | | |
|----------------|---------|----------------------|--------------|--------------|
| | | Channel No.0 | Channel No.1 | Channel No.2 |
| | | 5190MHz | --- | 5230MHz |
| 802.11n HT40 | Chain0 | 39.72 | --- | 40.61 |
| 802.11ac VHT40 | Chain0 | 41.48 | --- | 41.27 |

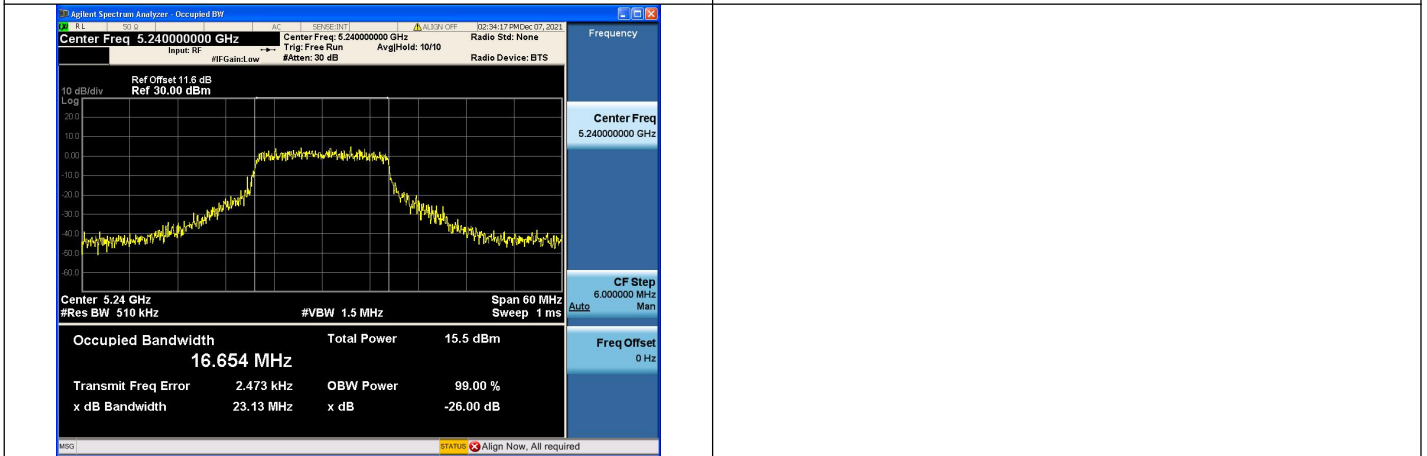
| Test Mode | Antenna | 26dB Bandwidth (MHz) | | |
|----------------|---------|----------------------|--------------|--------------|
| | | Channel No.0 | Channel No.1 | Channel No.2 |
| | | 5210MHz | --- | --- |
| 802.11ac VHT80 | Chain0 | 82.78 | --- | --- |

Test Mode: 802.11a



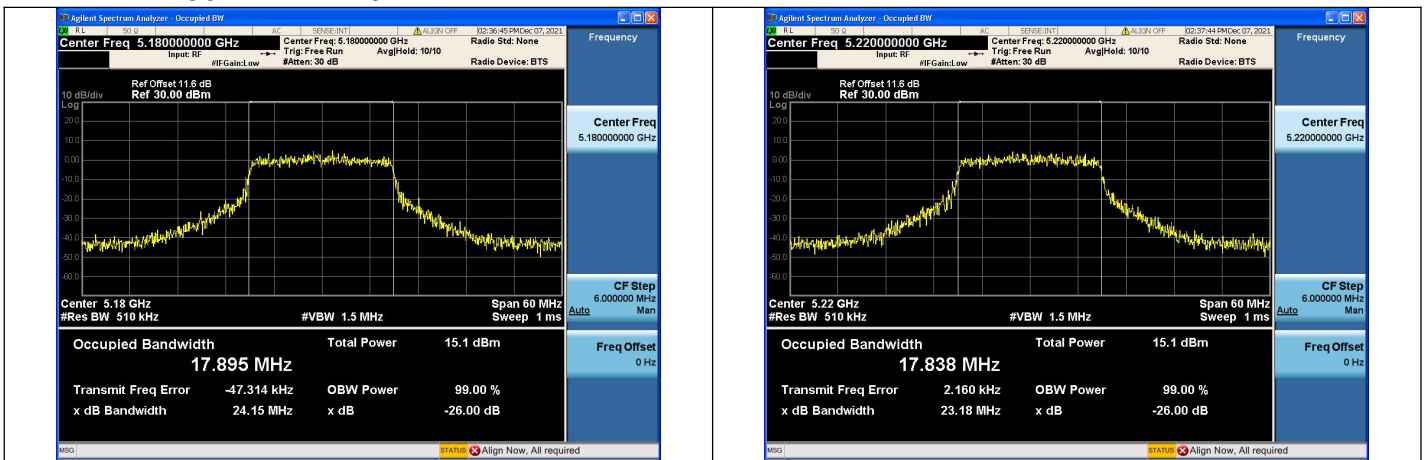
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0



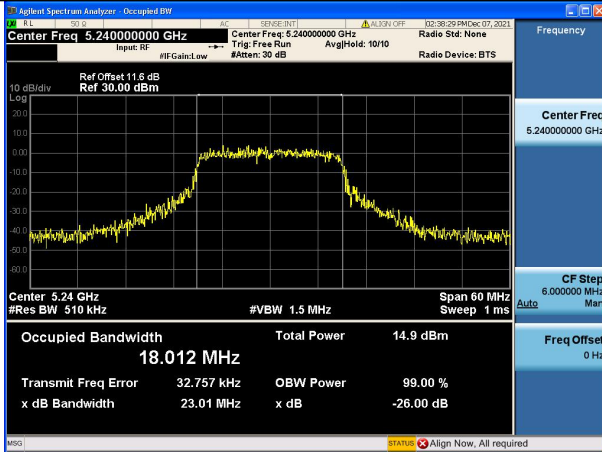
Test Mode:802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



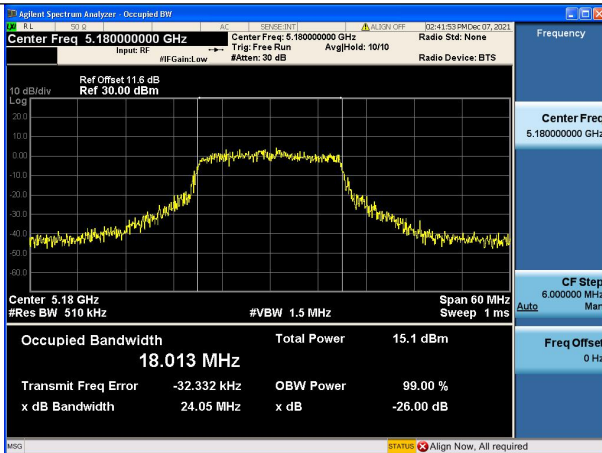
Test Mode:802.11n HT20 5180MHz Chain0

Test Mode:802.11n HT20 5220MHz Chain0

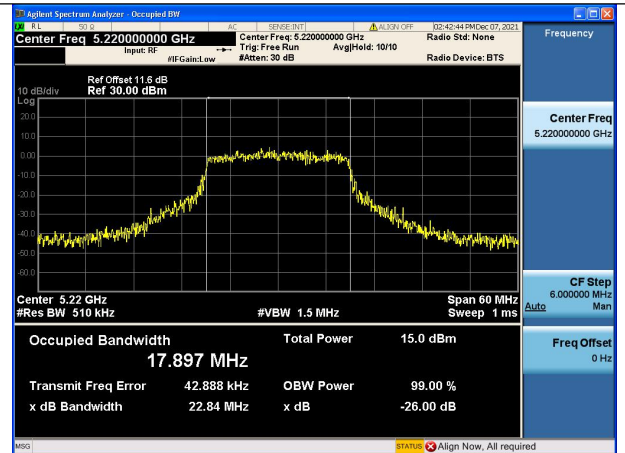


Test Mode:802.11n HT20 5240MHz Chain0

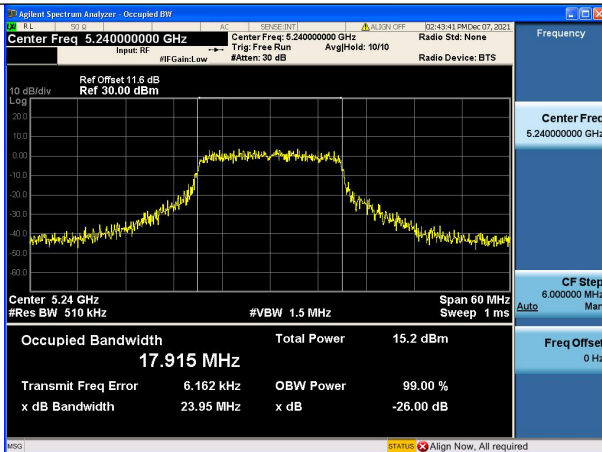
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

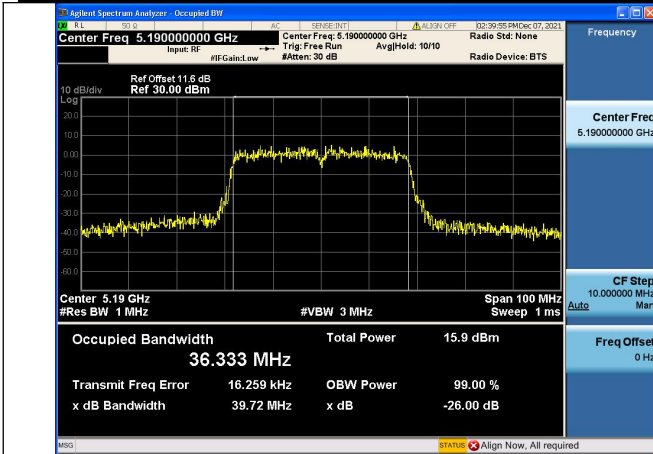


Test Mode:802.11ac VHT20 5220MHz Chain0

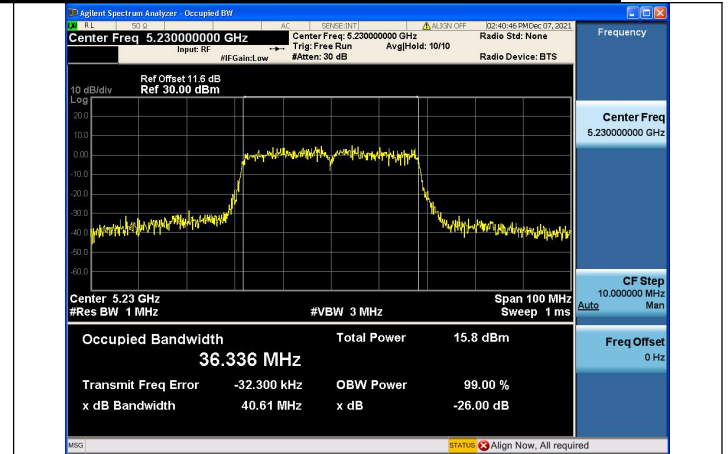


Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

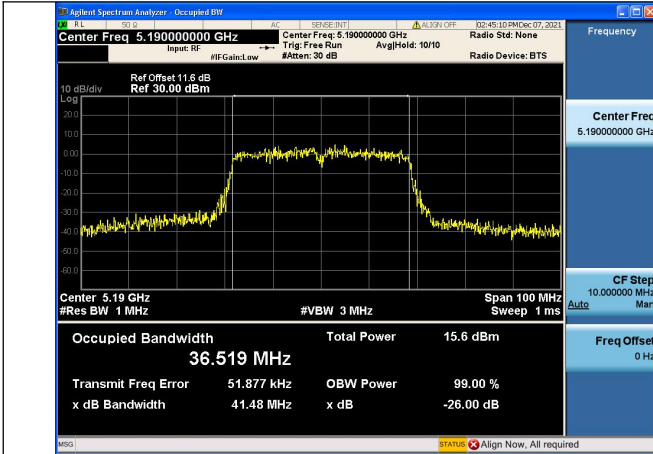


Test Mode:802.11n HT40 5190MHz Chain0

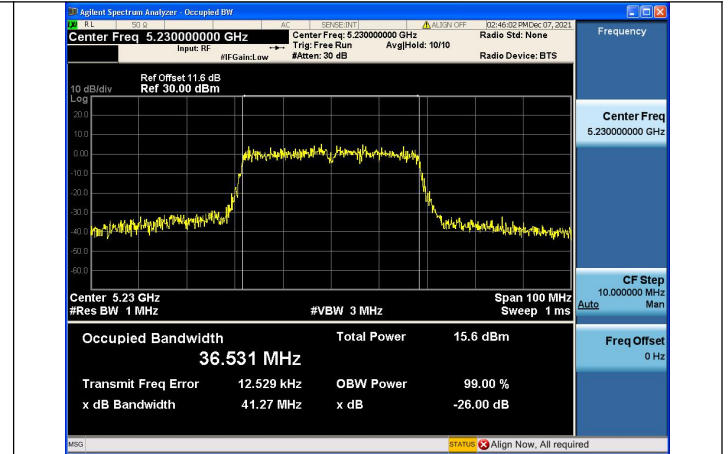


Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

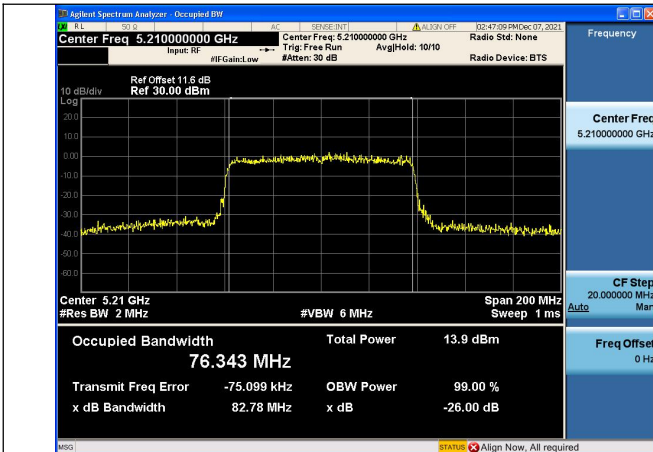


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0

Occupied Bandwidth

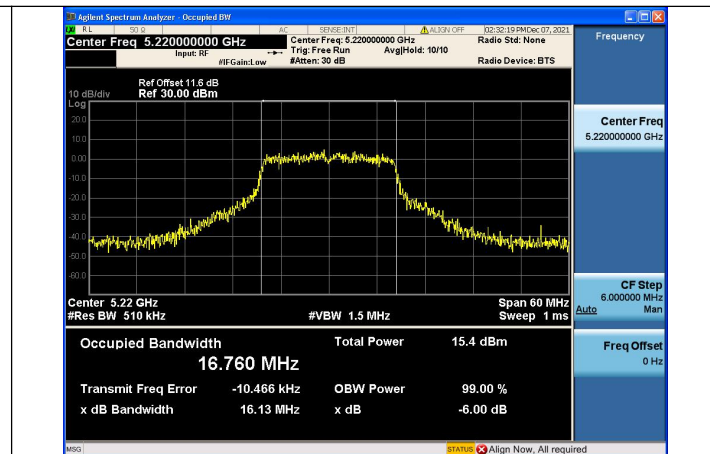
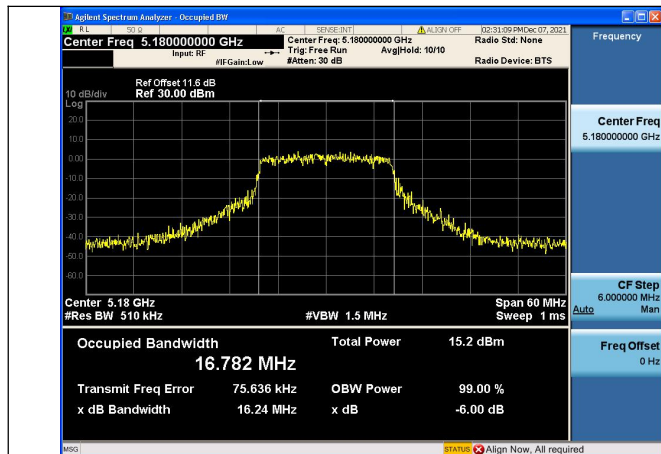
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | Occupied Bandwidth (MHz) | | |
|----------------|---------|--------------------------|--------------|--------------|
| | | Channel No.0 | Channel No.1 | Channel No.2 |
| | | 5180MHz | 5220MHz | 5240MHz |
| 802.11a | Chain0 | 16.782 | 16.760 | 16.675 |
| 802.11n HT20 | Chain0 | 17.915 | 17.947 | 17.934 |
| 802.11ac VHT20 | Chain0 | 17.930 | 17.912 | 18.002 |

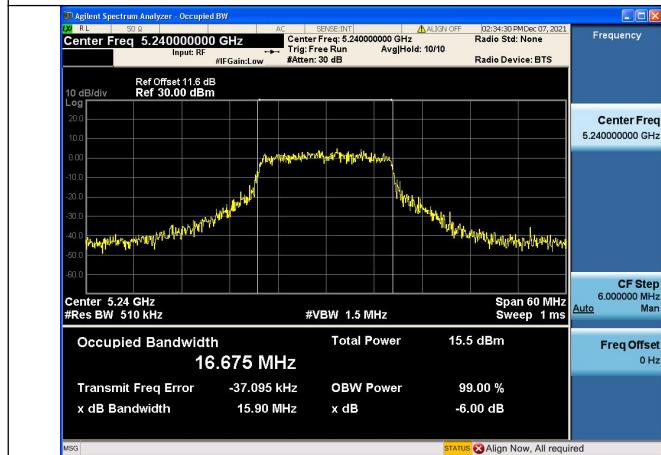
| Test Mode | Antenna | Occupied Bandwidth (MHz) | | |
|----------------|---------|--------------------------|--------------|--------------|
| | | Channel No.0 | Channel No.1 | Channel No.2 |
| | | 5190MHz | --- | 5230MHz |
| 802.11n HT40 | Chain0 | 36.483 | --- | 36.595 |
| 802.11ac VHT40 | Chain0 | 36.404 | --- | 36.438 |

| Test Mode | Antenna | Occupied Bandwidth (MHz) | | |
|----------------|---------|--------------------------|--------------|--------------|
| | | Channel No.0 | Channel No.1 | Channel No.2 |
| | | 5210MHz | --- | --- |
| 802.11ac VHT80 | Chain0 | 76.428 | --- | --- |

Test Mode: 802.11a



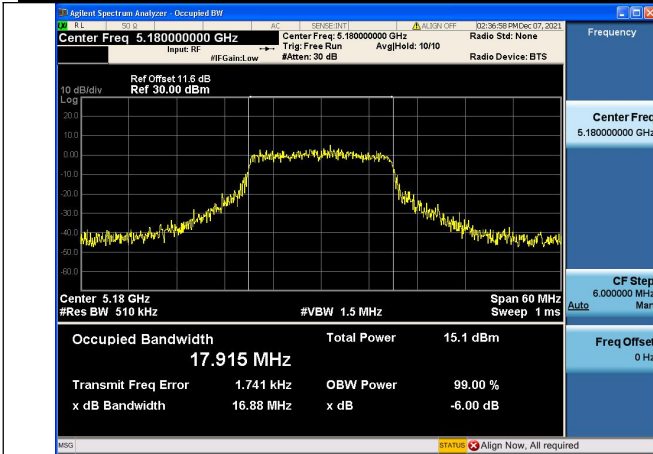
Test Mode:802.11a 5180MHz Chain0



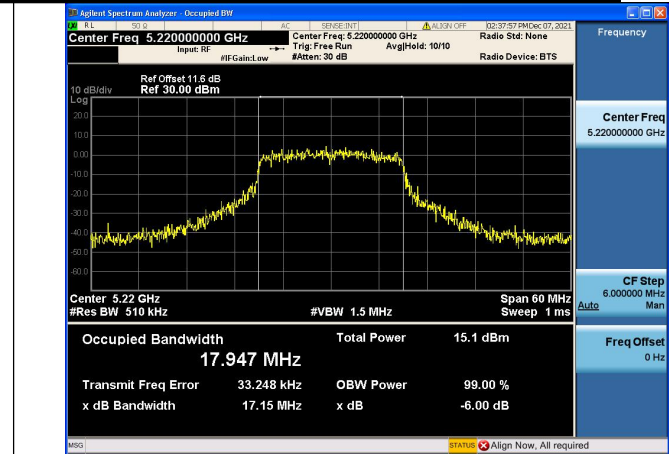
Test Mode:802.11a 5220MHz Chain0

Test Mode:802.11a 5240MHz Chain0

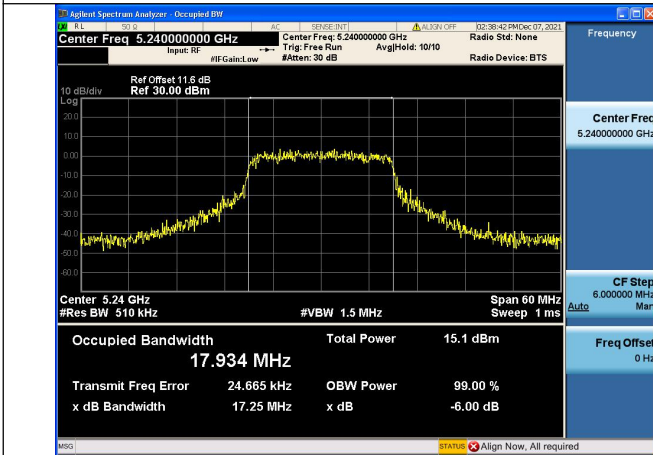
Test Mode: 802.11n HT20



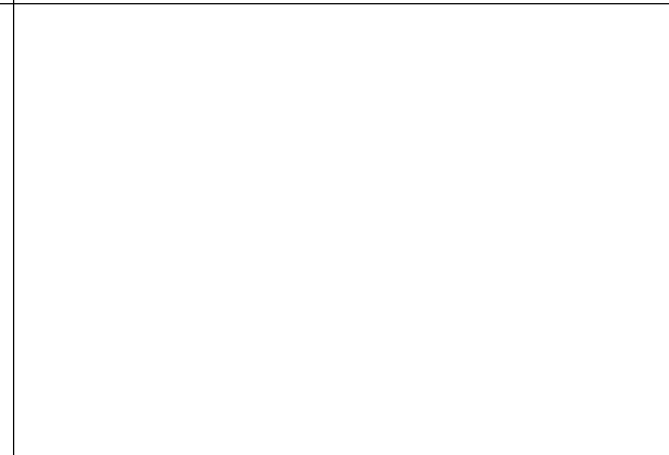
Test Mode:802.11n HT20 5180MHz Chain0



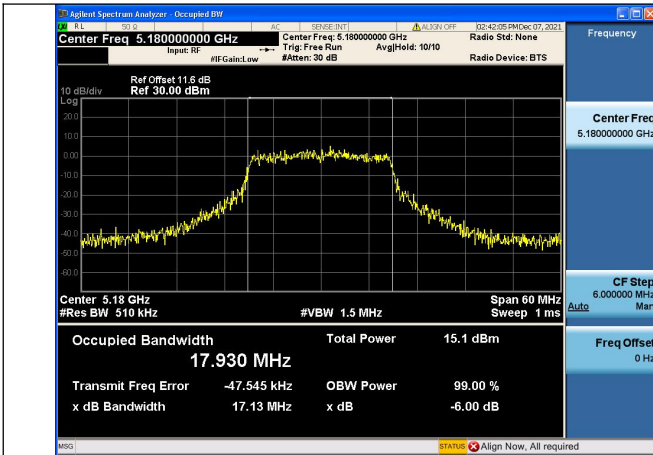
Test Mode:802.11n HT20 5220MHz Chain0



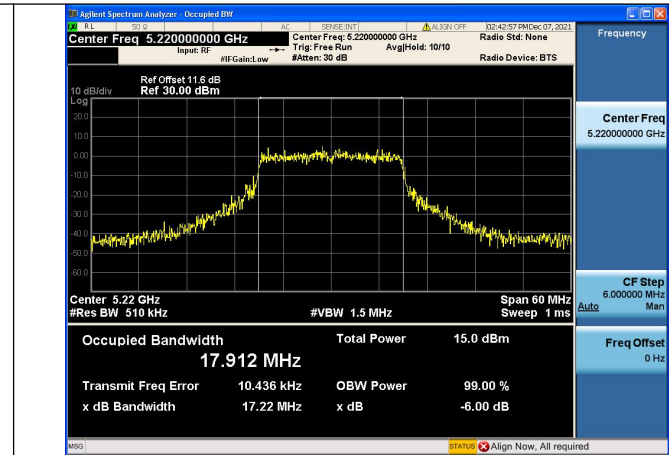
Test Mode:802.11n HT20 5240MHz Chain0



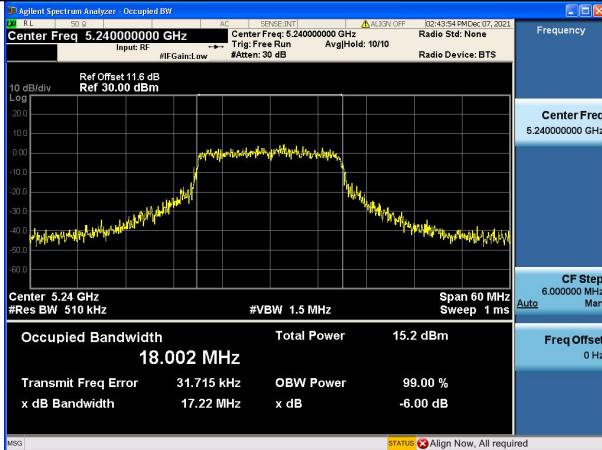
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

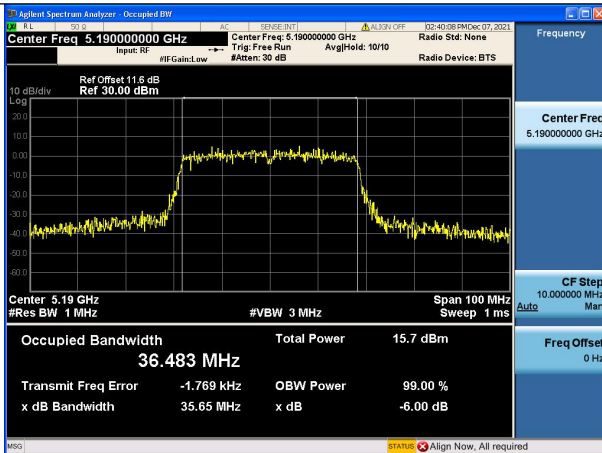


Test Mode:802.11ac VHT20 5220MHz Chain0



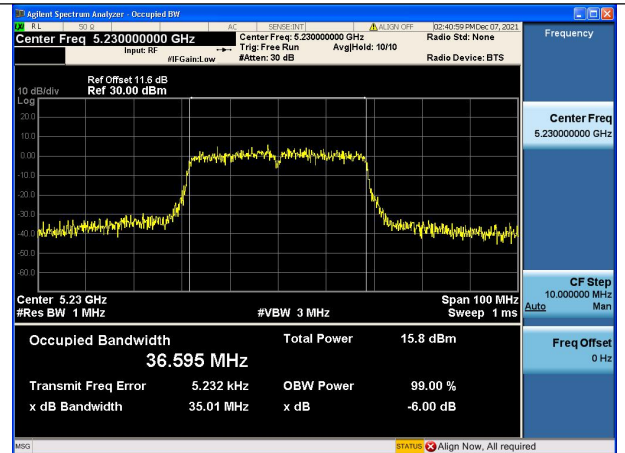
Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

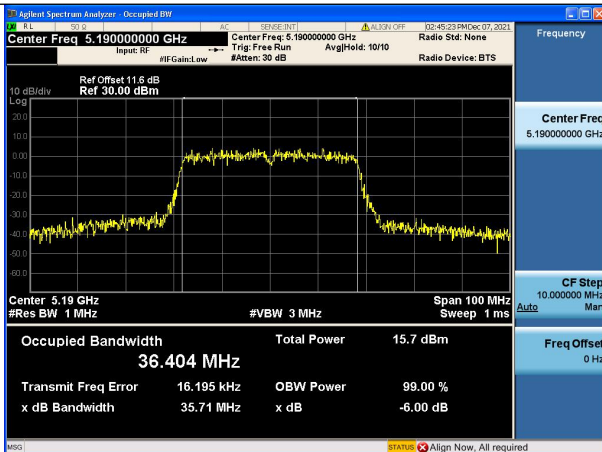


Test Mode:802.11n HT40 5190MHz Chain0

Test Mode: 802.11ac VHT40

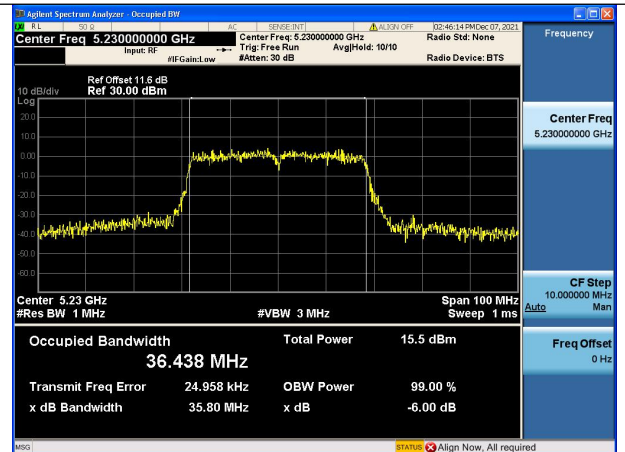


Test Mode:802.11n HT40 5230MHz Chain0

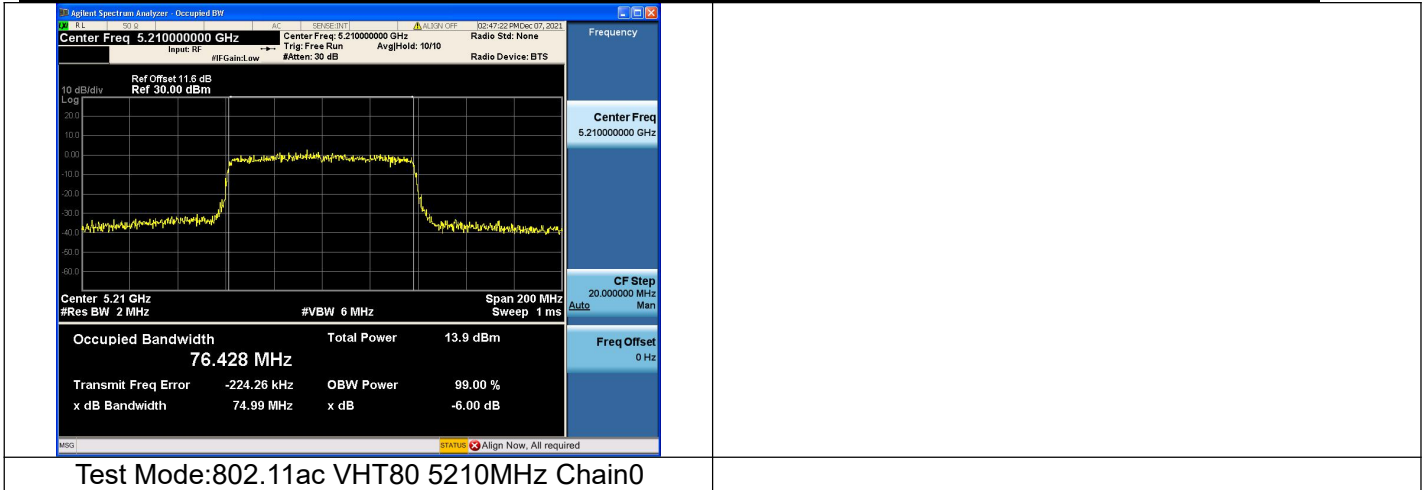


Test Mode:802.11ac VHT40 5190MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5230MHz Chain0



Transmitter Power Spectral Density

Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | Channel No.554 5180MHz | | Channel No.562 5220MHz | | Channel No.566 5240MHz | |
|-----------------|---------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|
| | | Correction Factor(dB) | Power Density (dBm/MHz) | Correction Factor(dB) | Power Density (dBm/MHz) | Correction Factor(dB) | Power Density (dBm/MHz) |
| 802.11a | Chain0 | 0 | 7.747 | 0 | 7.732 | 0 | 7.927 |
| 802.11n HT20 | Chain0 | 0 | 7.425 | 0 | 7.313 | 0 | 7.497 |
| 802.11a c VHT20 | Chain0 | 0 | 7.351 | 0 | 7.310 | 0 | 7.520 |

| Test Mode | Antenna | Channel No.556 5190MHz | | Channel No.1 --- | | Channel No.564 5230MHz | |
|-----------------|---------|---------------------------|-------------------------|-----------------------|-------------------------|---------------------------|-------------------------|
| | | Correction Factor(dB) | Power Density (dBm/MHz) | Correction Factor(dB) | Power Density (dBm/MHz) | Correction Factor(dB) | Power Density (dBm/MHz) |
| 802.11n HT40 | Chain0 | 0 | 4.717 | --- | --- | 0 | 4.622 |
| 802.11a c VHT40 | Chain0 | 0 | 4.811 | --- | --- | 0 | 4.673 |

| Test Mode | Antenna | Channel No.560 5210MHz | | Channel No.1 --- | | Channel No.2 --- | |
|-----------------|---------|---------------------------|-------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
| | | Correction Factor(dB) | Power Density (dBm/MHz) | Correction Factor(dB) | Power Density (dBm/MHz) | Correction Factor(dB) | Power Density (dBm/MHz) |
| 802.11a c VHT80 | Chain0 | 0.11 | 1.304 | --- | --- | --- | --- |

Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0



Test Mode:802.11a 5220MHz Chain0

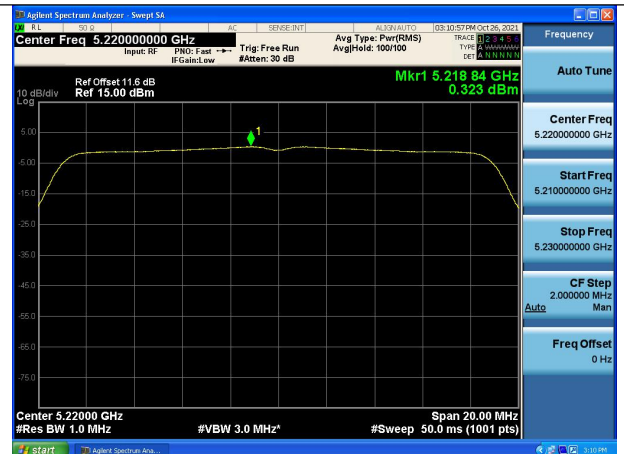


Test Mode:802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0



Test Mode:802.11n HT20 5220MHz Chain0



Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

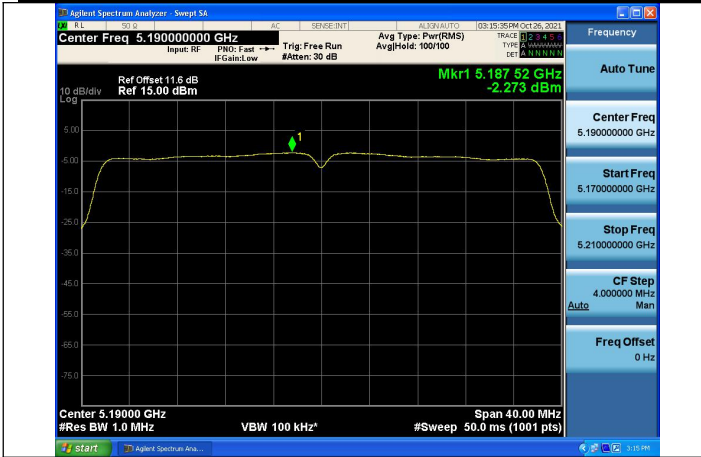


Test Mode:802.11ac VHT20 5220MHz Chain0



Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0
Test Mode: 802.11ac VHT40



Test Mode:802.11n HT40 5230MHz Chain0



Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0