

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

| Test Mode | Frequency (MHz) | Duty Cycle (%) | Correction Factor(dB) |
|----------------|-----------------|----------------|-----------------------|
| 802.11a | 5745 | 83.88% | 0.76 |
| 802.11n HT20 | 5745 | 83.89% | 0.76 |
| 802.11ac VHT20 | 5745 | 84.44% | 0.73 |
| 802.11n HT40 | 5755 | 79.30% | 1.01 |
| 802.11ac VHT40 | 5755 | 80.22% | 0.96 |
| 802.11ac VHT80 | 5775 | 77.00% | 1.14 |

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 | 5745 | Chain0 | 15.39 | 17.29 |
| 802.11a | NA | 5785 | Chain0 | 15.60 | 17.50 |
| 802.11a | NA | 5825 | Chain0 | 15.67 | 17.57 |
| 802.11n HT20 | NA | 5745 | Chain0 | 15.07 | 16.97 |
| 802.11n HT20 | NA | 5785 | Chain0 | 14.99 | 16.89 |
| 802.11n HT20 | NA | 5825 | Chain0 | 14.90 | 16.80 |
| 802.11ac VHT20 | NA | 5745 | Chain0 | 15.02 | 16.92 |
| 802.11ac VHT20 | NA | 5785 | Chain0 | 15.04 | 16.94 |
| 802.11ac VHT20 | NA | 5825 | Chain0 | 15.14 | 17.04 |
| 802.11n HT40 | NA | 5755 | Chain0 | 15.21 | 17.11 |
| 802.11n HT40 | NA | 5795 | Chain0 | 15.02 | 16.92 |
| 802.11ac VHT40 | NA | 5755 | Chain0 | 14.90 | 16.80 |
| 802.11ac VHT40 | NA | 5795 | Chain0 | 14.83 | 16.73 |
| 802.11ac VHT80 | NA | 5775 | Chain0 | 14.34 | 16.24 |

Emission Bandwidth

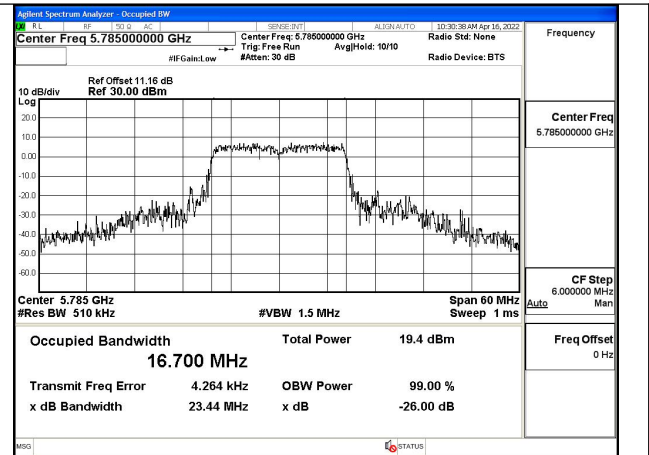
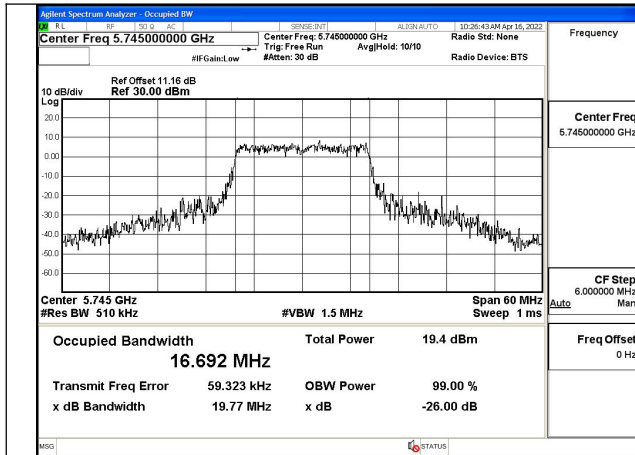
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | 26dB Bandwidth (MHz) | | |
|----------------|---------|----------------------|----------------|----------------|
| | | Channel No.667 | Channel No.675 | Channel No.683 |
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11a | Chain0 | 19.77 | 23.44 | 25.44 |
| 802.11n HT20 | Chain0 | 23.31 | 22.07 | 22.23 |
| 802.11ac VHT20 | Chain0 | 28.67 | 28.61 | 25.27 |

| Test Mode | Antenna | 26dB Bandwidth (MHz) | | |
|----------------|---------|----------------------|-----|----------------|
| | | Channel No.669 | --- | Channel No.677 |
| | | 5755MHz | --- | 5795MHz |
| 802.11n HT40 | Chain0 | 47.96 | --- | 44.11 |
| 802.11ac VHT40 | Chain0 | 43.84 | --- | 48.80 |

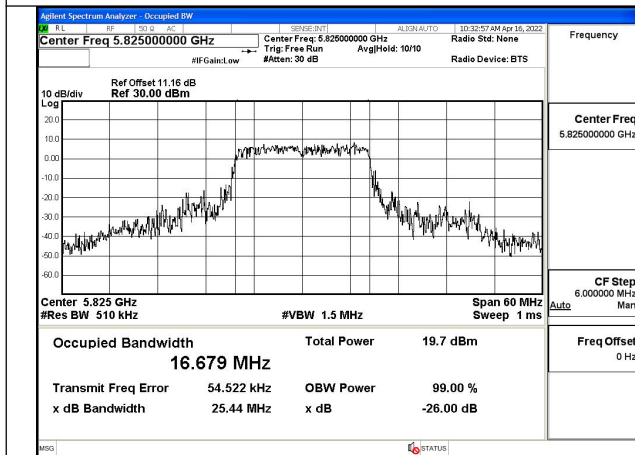
| Test Mode | Antenna | 26dB Bandwidth (MHz) | | |
|----------------|---------|----------------------|-----|-----|
| | | Channel No.673 | --- | --- |
| | | 5775MHz | --- | --- |
| 802.11ac VHT80 | Chain0 | 84.48 | --- | --- |

Test Mode: 802.11a



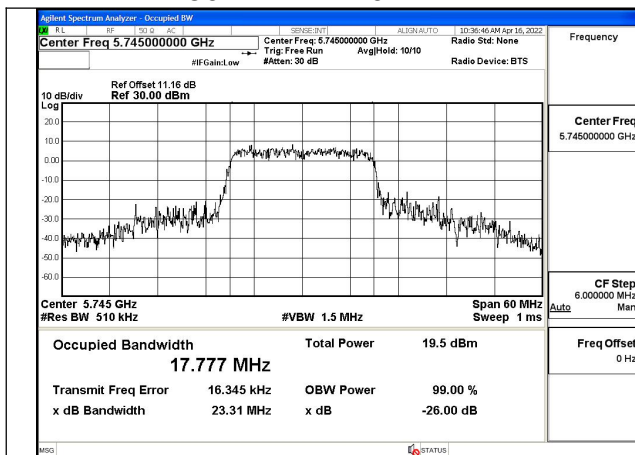
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

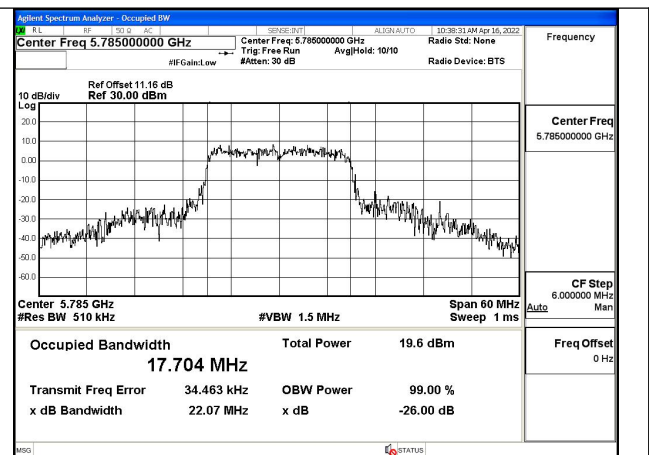


Test Mode:802.11a 5825MHz Chain0

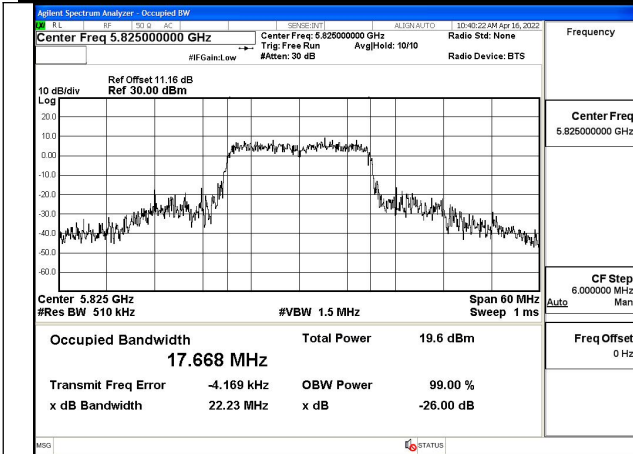
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

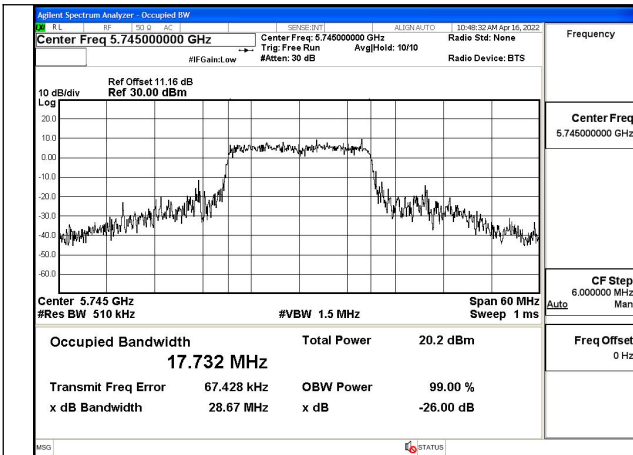


Test Mode:802.11n HT20 5785MHz Chain0

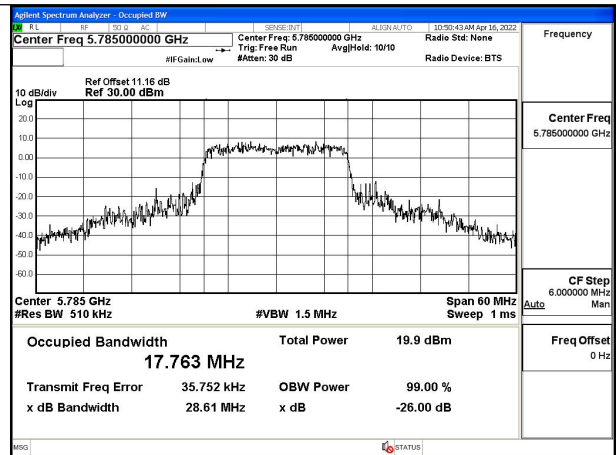


Test Mode:802.11n HT20 5825MHz Chain0

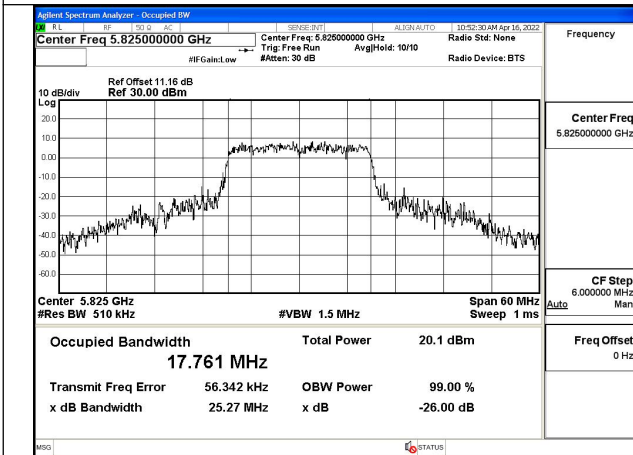
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

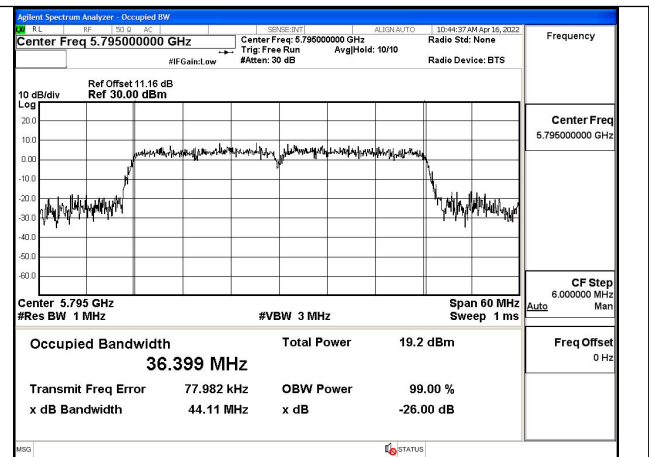
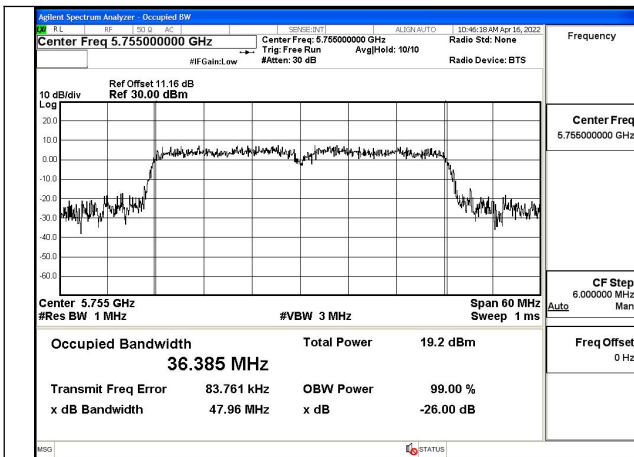


Test Mode:802.11ac VHT20 5785MHz Chain0



Test Mode:802.11ac VHT20 5825MHz Chain0

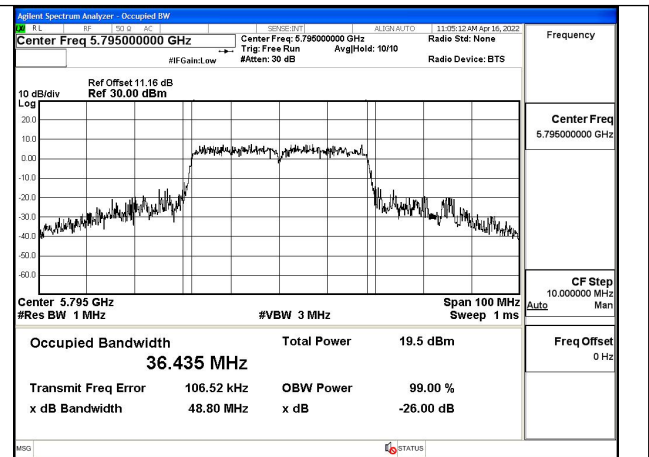
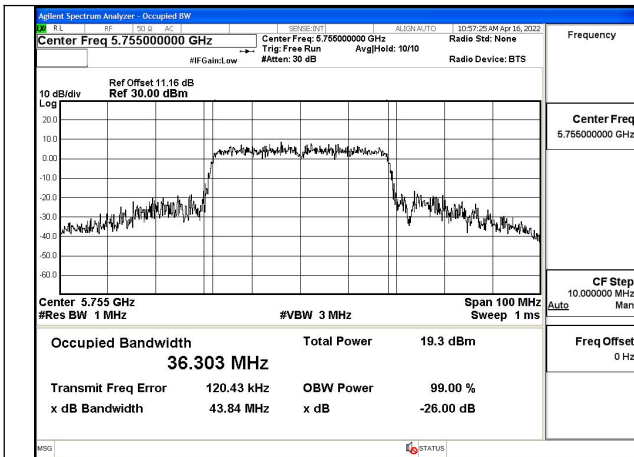
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0

Test Mode:802.11n HT40 5795MHz Chain0

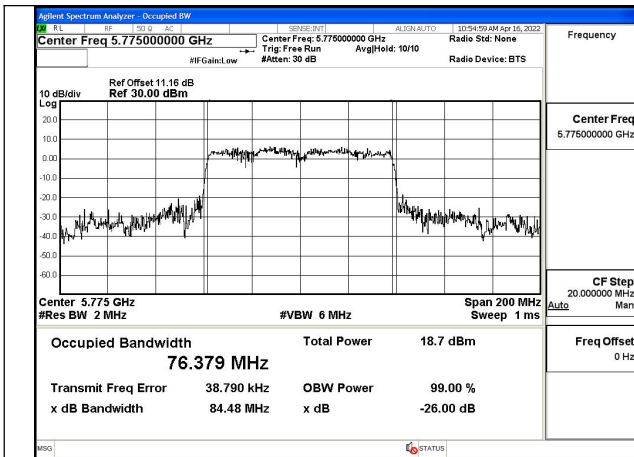
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

Occupied Bandwidth

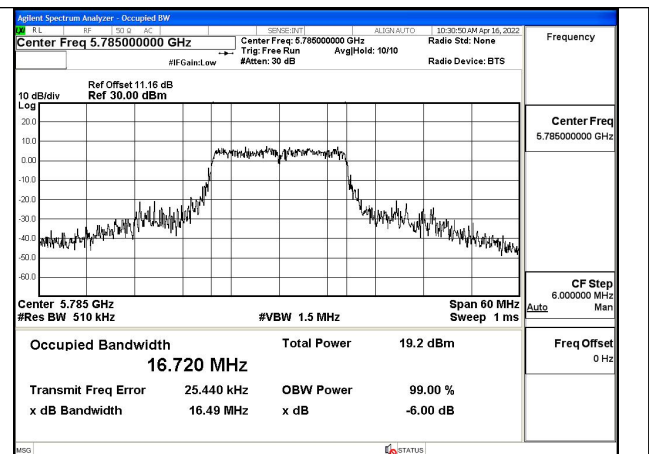
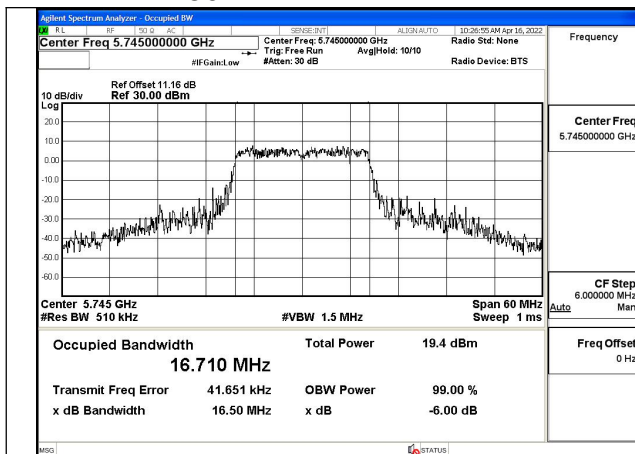
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | Occupied Bandwidth (MHz) | | |
|----------------|---------|--------------------------|----------------|----------------|
| | | Channel No.667 | Channel No.675 | Channel No.683 |
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11a | Chain0 | 16.710 | 16.720 | 16.701 |
| 802.11n HT20 | Chain0 | 17.728 | 17.659 | 17.623 |
| 802.11ac VHT20 | Chain0 | 17.726 | 17.704 | 17.789 |

| Test Mode | Antenna | Occupied Bandwidth (MHz) | | |
|----------------|---------|--------------------------|-----|----------------|
| | | Channel No.669 | --- | Channel No.677 |
| | | 5755MHz | --- | 5795MHz |
| 802.11n HT40 | Chain0 | 36.318 | --- | 36.375 |
| 802.11ac VHT40 | Chain0 | 36.410 | --- | 36.360 |

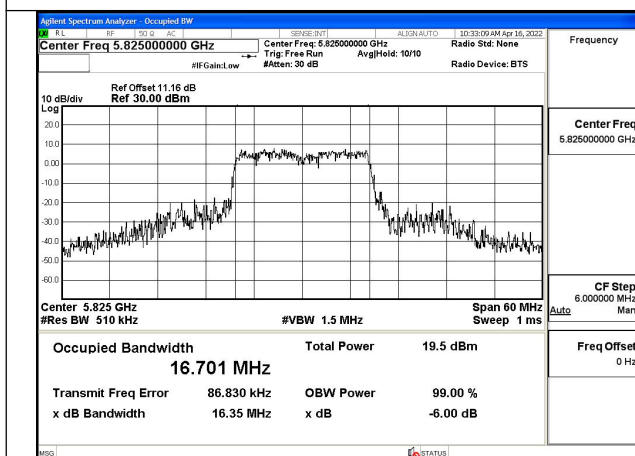
| Test Mode | Antenna | Occupied Bandwidth (MHz) | | |
|----------------|---------|--------------------------|-----|-----|
| | | Channel No.673 | --- | --- |
| | | 5775MHz | --- | --- |
| 802.11ac VHT80 | Chain0 | 76.421 | --- | --- |

Test Mode: 802.11a



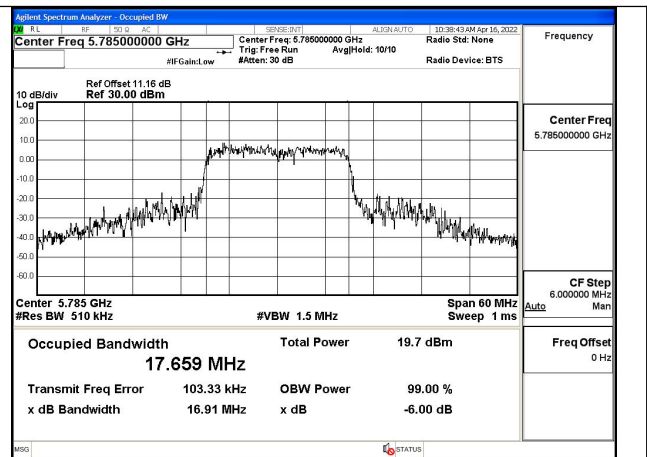
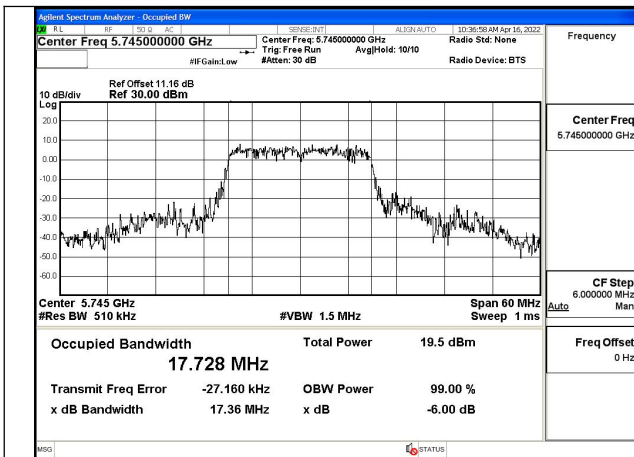
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



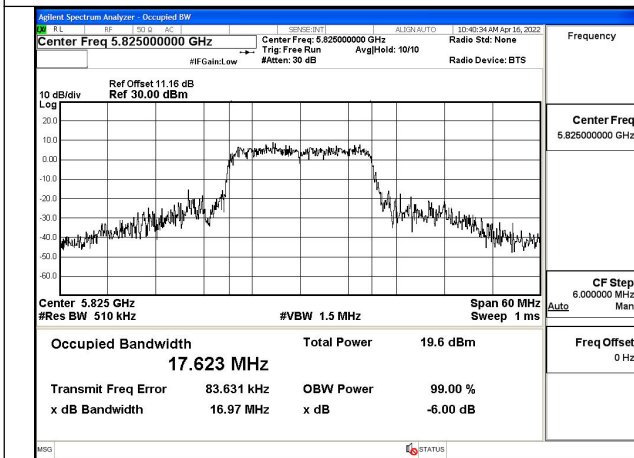
Test Mode:802.11a 5825MHz Chain0

Test Mode: 802.11n HT20



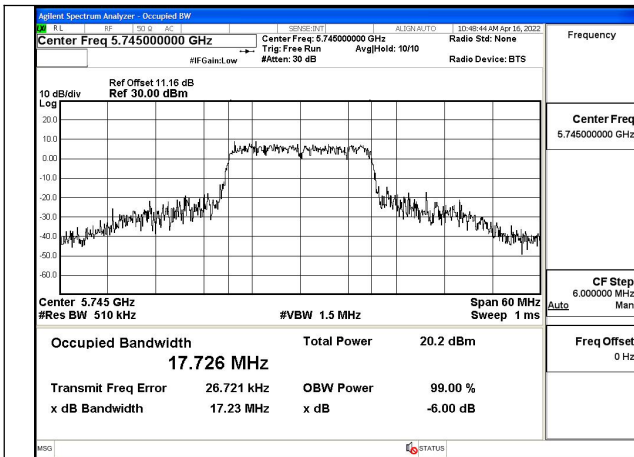
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0

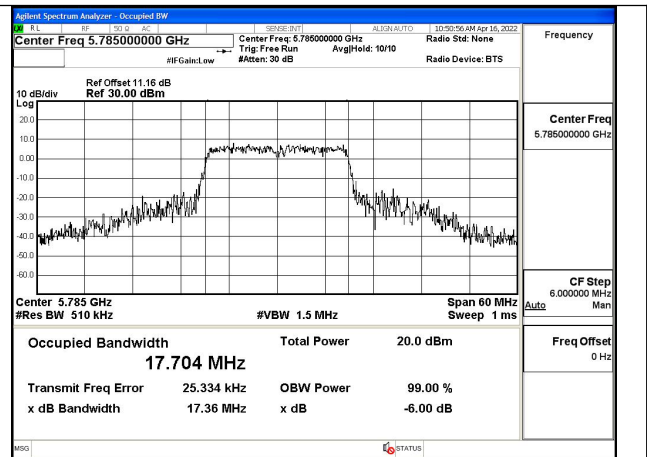


Test Mode:802.11n HT20 5825MHz Chain0

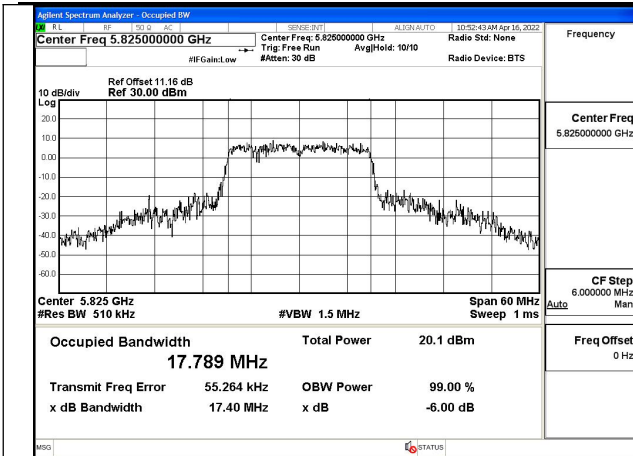
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

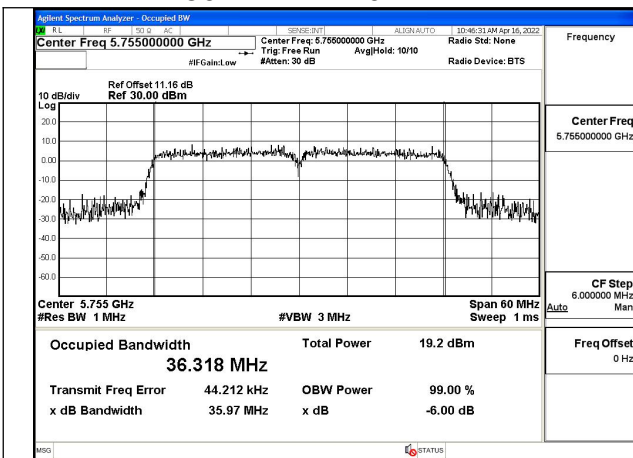


Test Mode:802.11ac VHT20 5785MHz Chain0

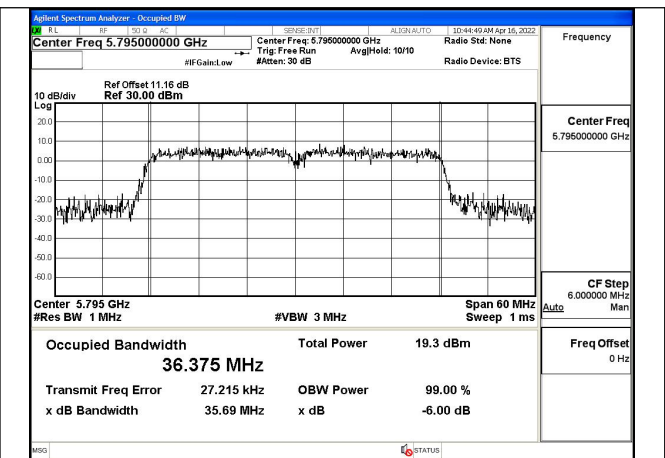


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

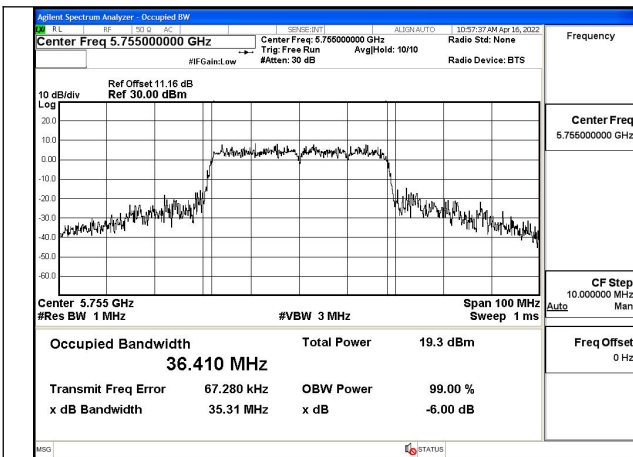


Test Mode:802.11n HT40 5755MHz Chain0

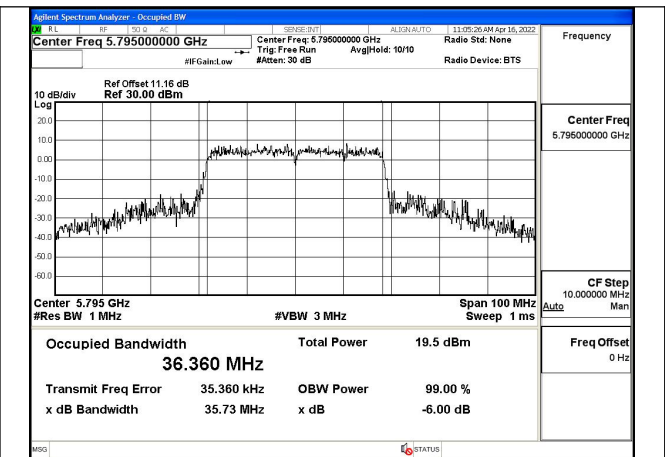


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40

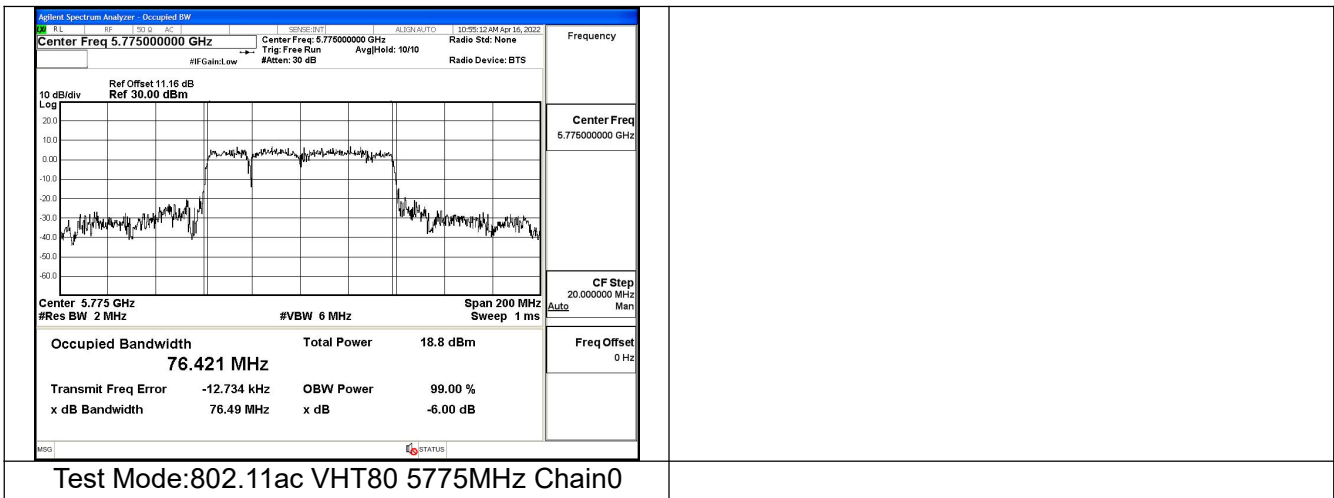


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



6dB Bandwidth

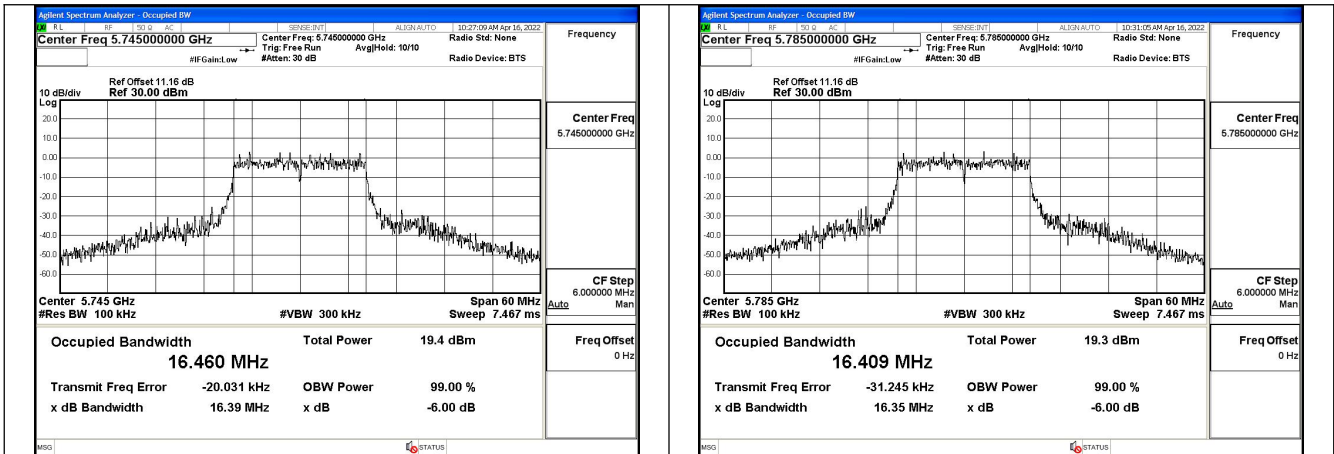
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | 6dB Bandwidth (MHz) | | |
|----------------|---------|---------------------|----------------|----------------|
| | | Channel No.667 | Channel No.675 | Channel No.683 |
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11a | Chain0 | 16.39 | 16.35 | 15.88 |
| 802.11n HT20 | Chain0 | 17.33 | 17.26 | 16.96 |
| 802.11ac VHT20 | Chain0 | 17.12 | 16.86 | 16.78 |

| Test Mode | Antenna | 6dB Bandwidth (MHz) | | |
|----------------|---------|---------------------|-----|----------------|
| | | Channel No.669 | --- | Channel No.677 |
| | | 5755MHz | --- | 5795MHz |
| 802.11n HT40 | Chain0 | 34.64 | --- | 35.08 |
| 802.11ac VHT40 | Chain0 | 35.16 | --- | 35.23 |

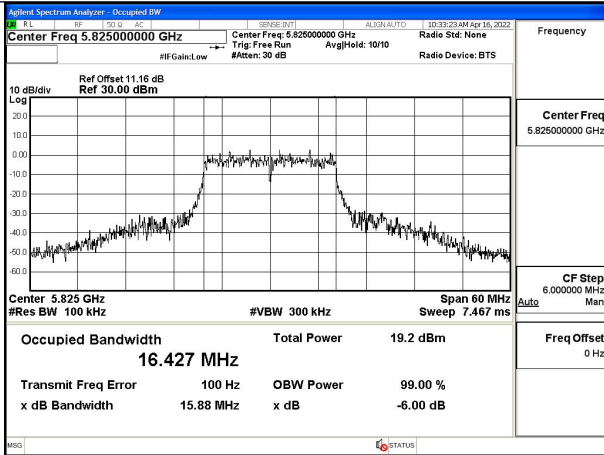
| Test Mode | Antenna | 6dB Bandwidth (MHz) | | |
|----------------|---------|---------------------|-----|-----|
| | | Channel No.673 | --- | --- |
| | | 5775MHz | --- | --- |
| 802.11ac VHT80 | Chain0 | 75.66 | --- | --- |

Test Mode: 802.11a



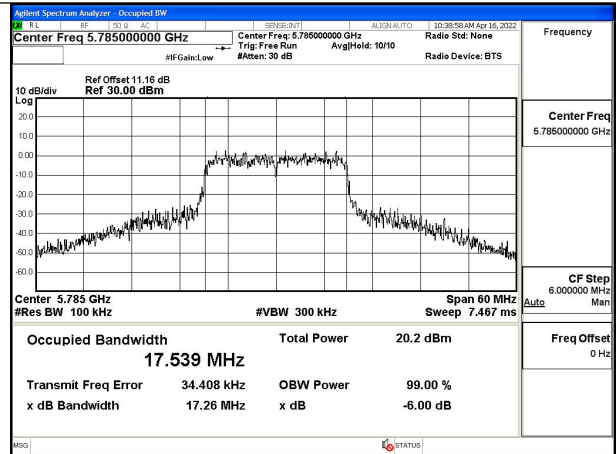
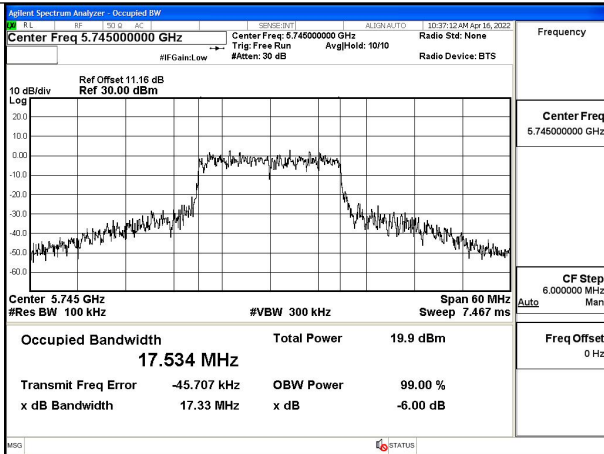
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



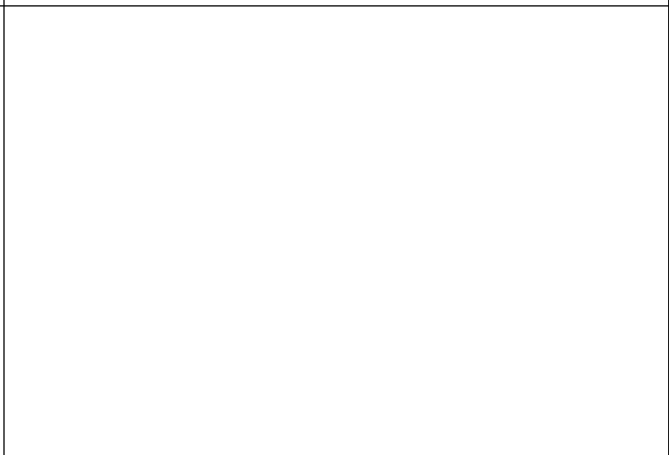
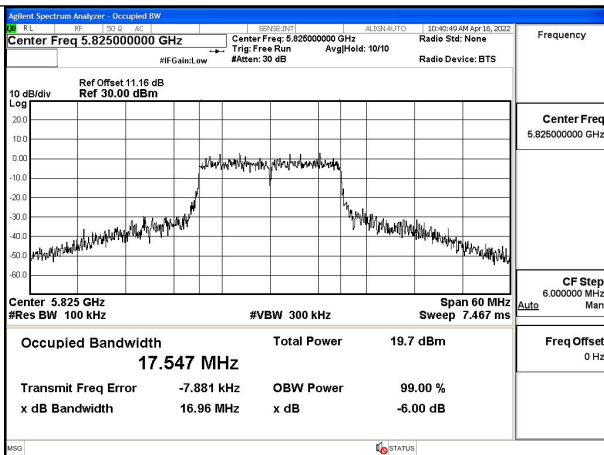
Test Mode:802.11a 5825MHz Chain0

Test Mode: 802.11n HT20



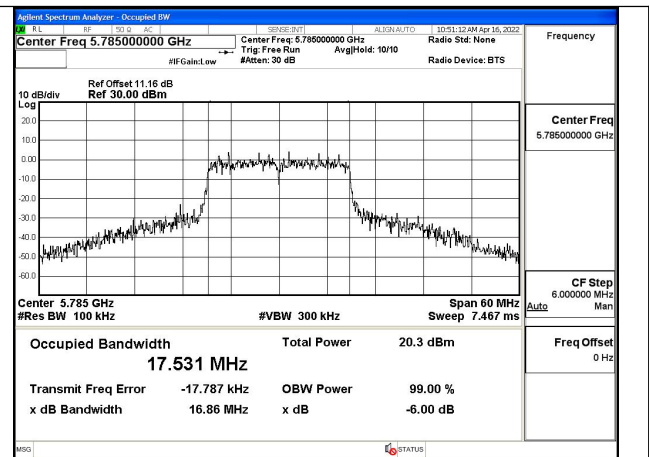
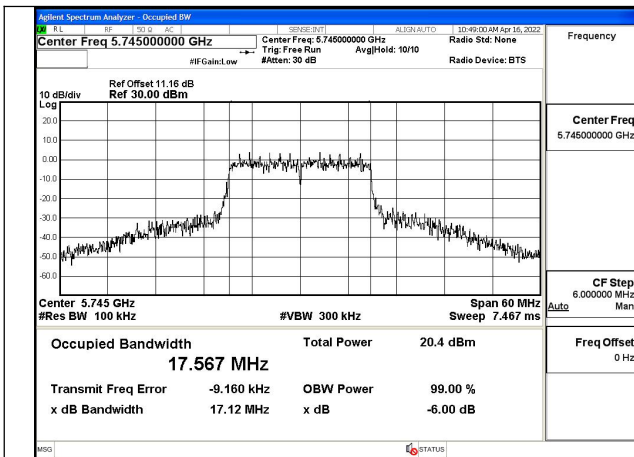
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



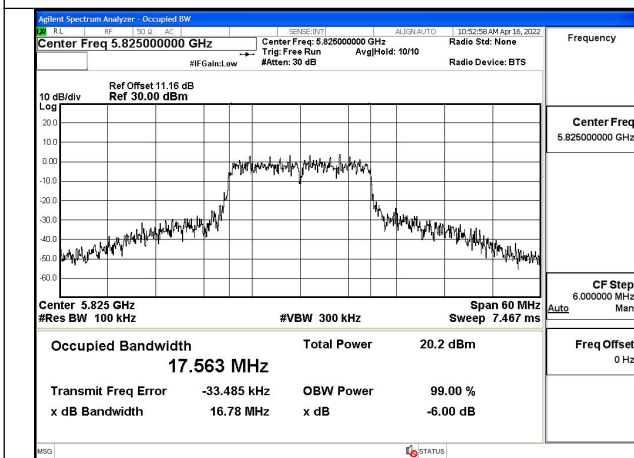
Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11ac VHT20



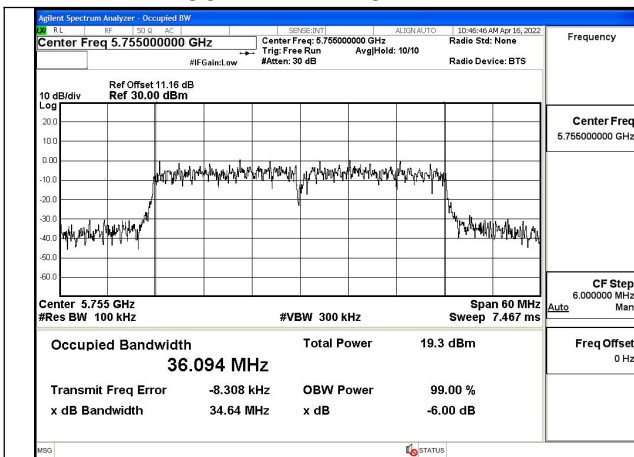
Test Mode:802.11ac VHT20 5745MHz Chain0

Test Mode:802.11ac VHT20 5785MHz Chain0

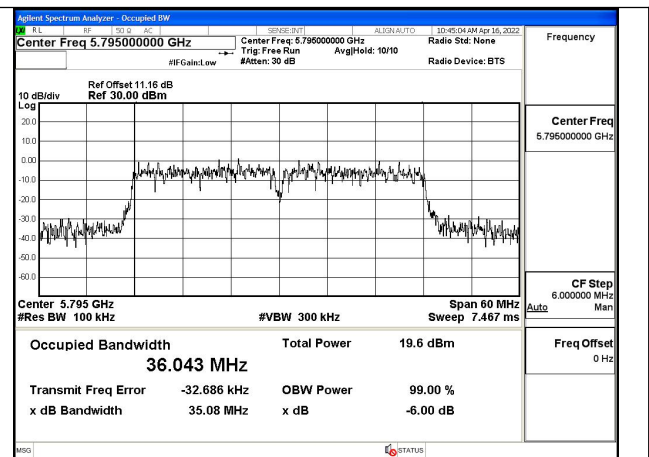


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

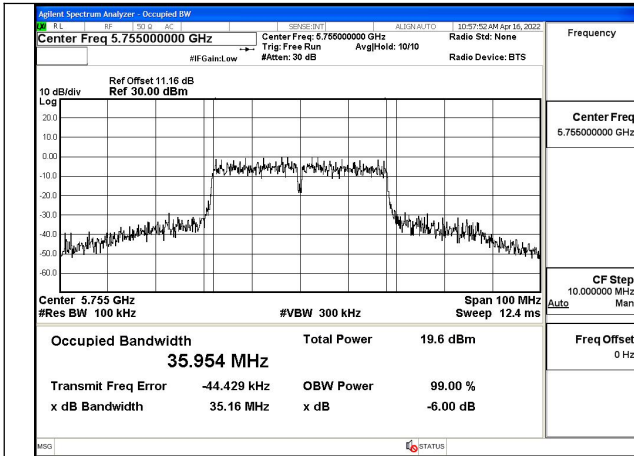


Test Mode:802.11n HT40 5755MHz Chain0

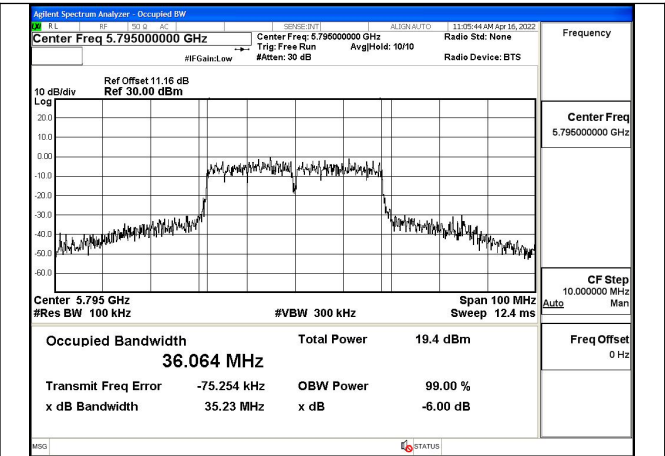


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40

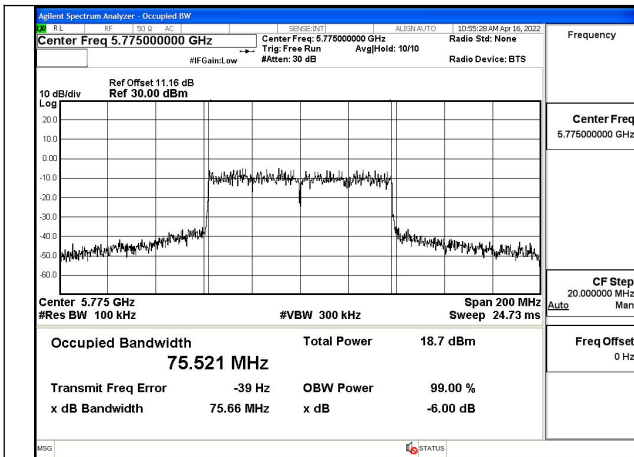


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

Transmitter Power Spectral Density

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode | Antenna | 5745MHz | | 5785MHz | | 5825MHz | |
|----------------|---------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|----------------------------|
| | | Correction Factor(dB) | Power Density (dBm/500KHz) | Correction Factor(dB) | Power Density (dBm/500KHz) | Correction Factor(dB) | Power Density (dBm/500KHz) |
| 802.11a | Chain0 | 0.76 | 3.187 | 0.76 | 3.330 | 0.76 | 3.517 |
| 802.11n HT20 | Chain0 | 0.76 | 3.493 | 0.76 | 3.388 | 0.76 | 3.490 |
| 802.11ac VHT20 | Chain0 | 0.73 | 4.006 | 0.73 | 4.312 | 0.73 | 4.220 |

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.