

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Duty Cycle

| Test Mode      | Frequency (MHz) | Duty Cycle (%) | Correction Factor(dB) |
|----------------|-----------------|----------------|-----------------------|
| 802.11a        | 5745            | 97.83%         | 0.10                  |
| 802.11n HT20   | 5745            | 97.17%         | 0.12                  |
| 802.11ac VHT20 | 5745            | 97.15%         | 0.13                  |
| 802.11n HT40   | 5755            | 94.91%         | 0.23                  |
| 802.11ac VHT40 | 5755            | 94.97%         | 0.22                  |
| 802.11ac VHT80 | 5775            | 91.24%         | 0.40                  |

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

### Output Power

| Mode           | Tones/<br>RUIndex | Freq<br>(MHz) | Antenna | Conducted average<br>power output(dBm) | EIRP<br>(dBm) |
|----------------|-------------------|---------------|---------|----------------------------------------|---------------|
| 802.11a        | NA                | 5745          | Chain0  | 15.86                                  | 17.76         |
| 802.11a        | NA                | 5785          | Chain0  | 15.91                                  | 17.81         |
| 802.11a        | NA                | 5825          | Chain0  | 15.97                                  | 17.87         |
| 802.11ac VHT20 | NA                | 5745          | Chain0  | 15.86                                  | 17.76         |
| 802.11ac VHT20 | NA                | 5785          | Chain0  | 15.83                                  | 17.73         |
| 802.11ac VHT20 | NA                | 5825          | Chain0  | 15.71                                  | 17.61         |
| 802.11ac VHT40 | NA                | 5755          | Chain0  | 15.86                                  | 17.76         |
| 802.11ac VHT40 | NA                | 5795          | Chain0  | 15.90                                  | 17.8          |
| 802.11ac VHT80 | NA                | 5775          | Chain0  | 15.85                                  | 17.75         |
| 802.11n HT20   | NA                | 5745          | Chain0  | 15.93                                  | 17.83         |
| 802.11n HT20   | NA                | 5785          | Chain0  | 15.91                                  | 17.81         |
| 802.11n HT20   | NA                | 5825          | Chain0  | 15.73                                  | 17.63         |
| 802.11n HT40   | NA                | 5755          | Chain0  | 15.70                                  | 17.6          |
| 802.11n HT40   | NA                | 5795          | Chain0  | 15.17                                  | 17.07         |

## Emission Bandwidth

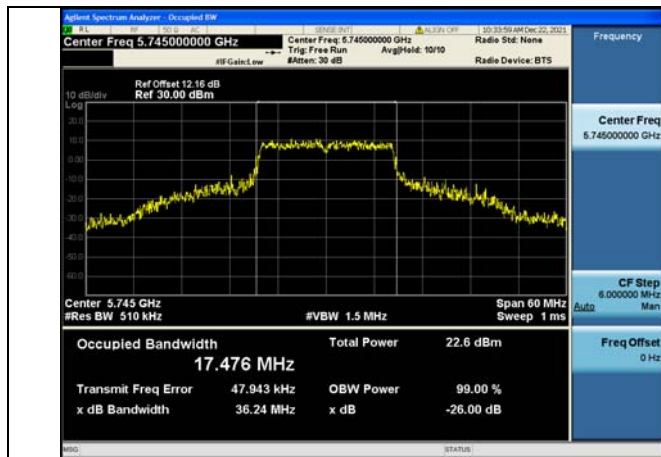
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

| Test Mode      | Antenna | 26dB Bandwidth (MHz) |              |              |
|----------------|---------|----------------------|--------------|--------------|
|                |         | Channel No.0         | Channel No.1 | Channel No.2 |
|                |         | 5745MHz              | 5785MHz      | 5825MHz      |
| 802.11a        | Chain0  | 36.24                | 35.30        | 37.48        |
| 802.11n HT20   | Chain0  | 41.44                | 35.97        | 39.43        |
| 802.11ac VHT20 | Chain0  | 39.32                | 36.97        | 42.88        |

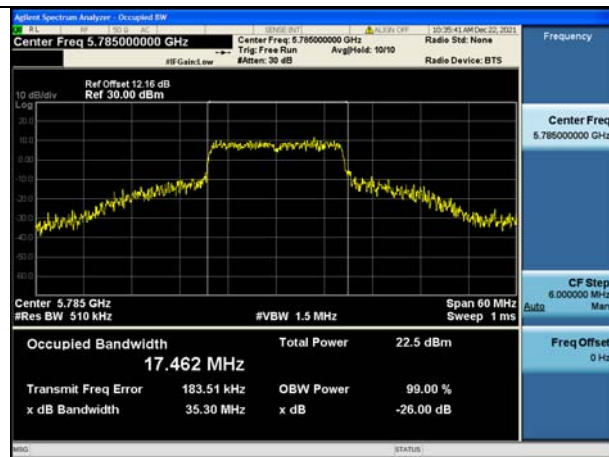
| Test Mode      | Antenna | 26dB Bandwidth (MHz) |              |              |
|----------------|---------|----------------------|--------------|--------------|
|                |         | Channel No.0         | Channel No.1 | Channel No.2 |
|                |         | 5755MHz              | 2437 MHz     | 5795MHz      |
| 802.11n HT40   | Chain0  | 59.79                | ---          | 60.00        |
| 802.11ac VHT40 | Chain0  | 81.13                | ---          | 77.46        |

| Test Mode      | Antenna | 26dB Bandwidth (MHz) |              |              |
|----------------|---------|----------------------|--------------|--------------|
|                |         | Channel No.0         | Channel No.1 | Channel No.2 |
|                |         | 5775MHz              | 2437 MHz     | 2462 MHz     |
| 802.11ac VHT80 | Chain0  | 165.73               | ---          | ---          |

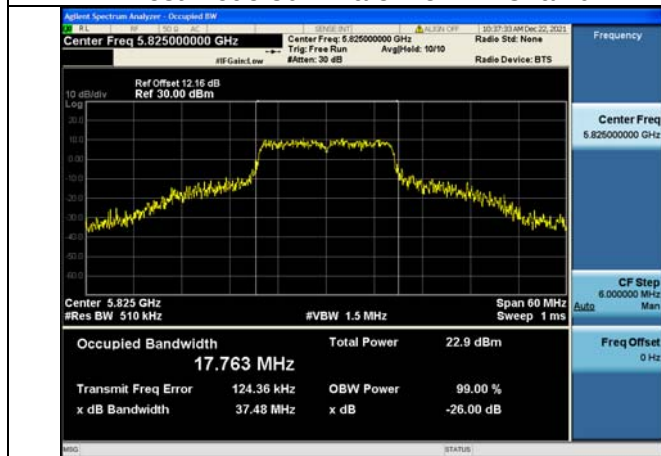
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

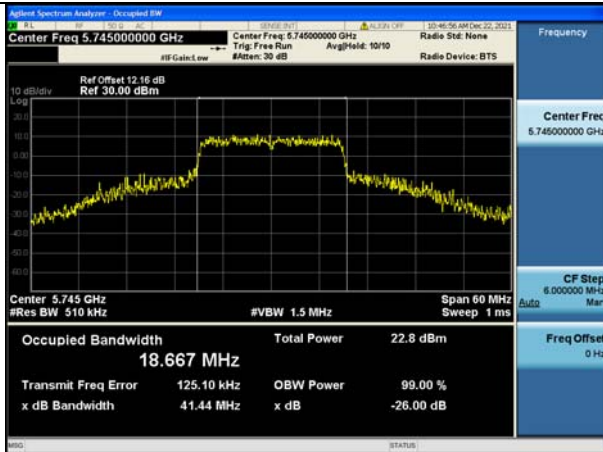


Test Mode:802.11a 5785MHz Chain0

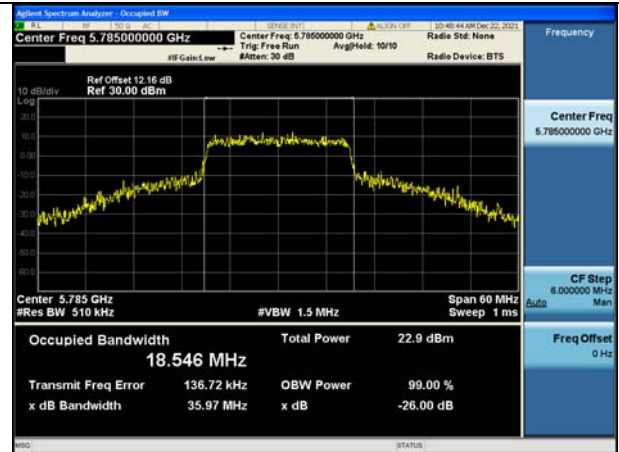


Test Mode:802.11a 5825MHz Chain0

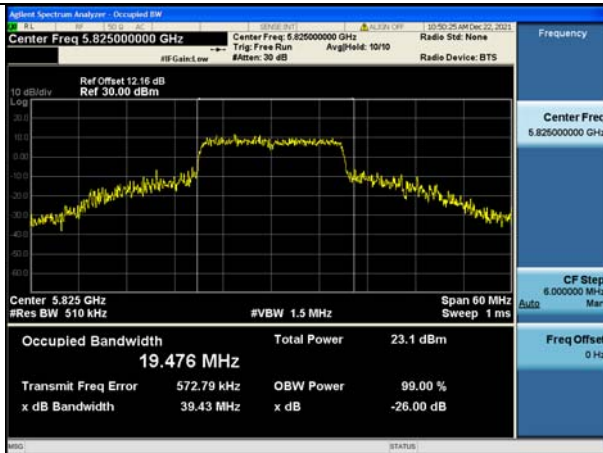
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

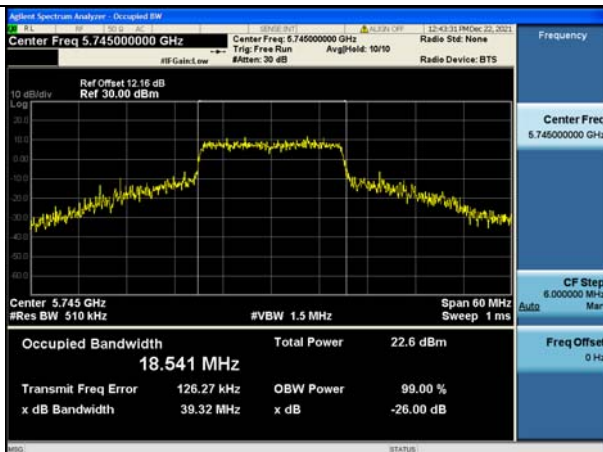


Test Mode:802.11n HT20 5785MHz Chain0

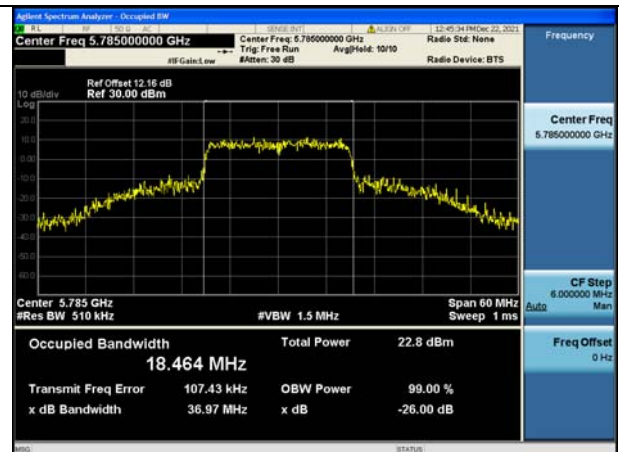


Test Mode:802.11n HT20 5825MHz Chain0

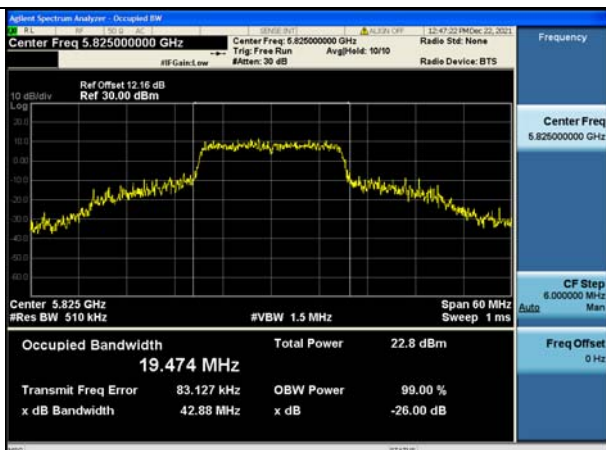
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

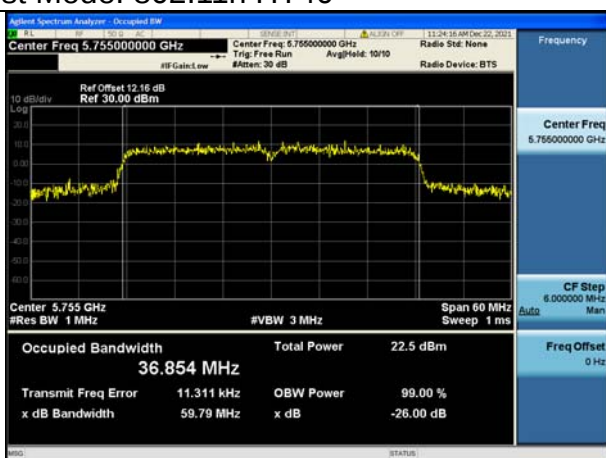


Test Mode:802.11ac VHT20 5785MHz Chain0



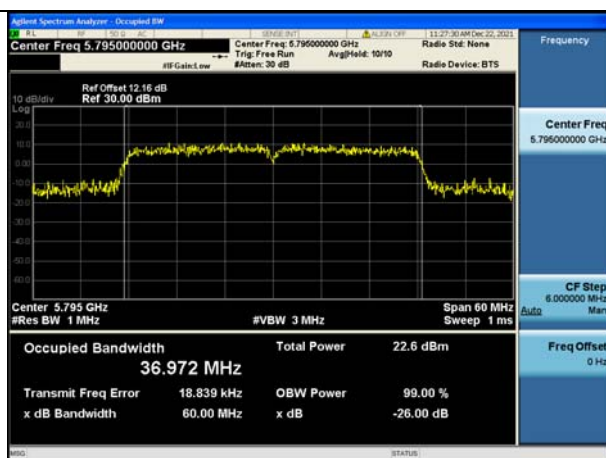
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

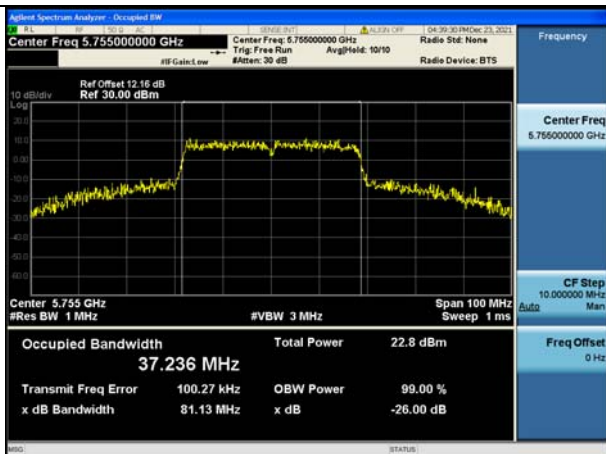


Test Mode:802.11n HT40 5755MHz Chain0

Test Mode: 802.11ac VHT40

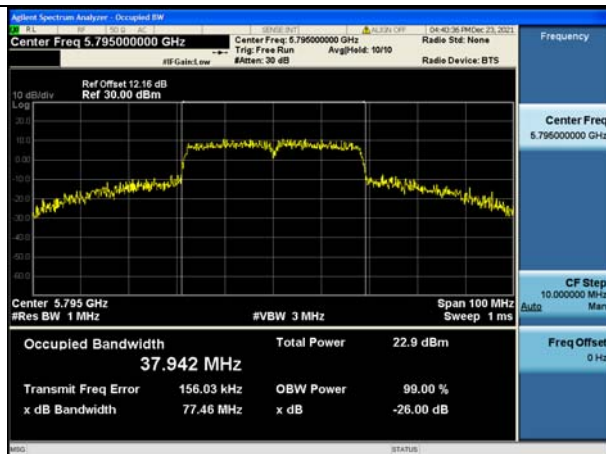


Test Mode:802.11n HT40 5795MHz Chain0

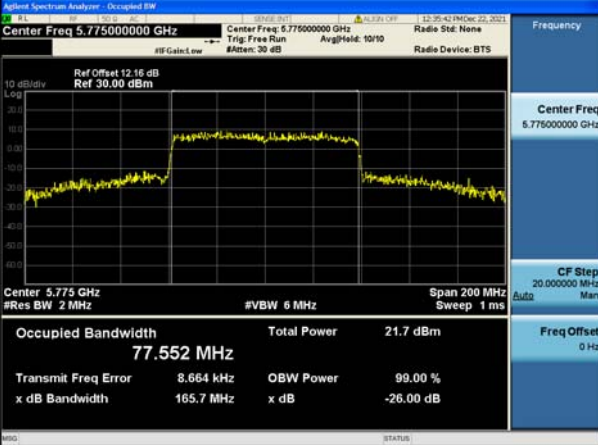


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0

|                                                                                   |  |
|-----------------------------------------------------------------------------------|--|
|  |  |
| Test Mode:802.11ac VHT80 5775MHz Chain0                                           |  |

## Occupied Bandwidth

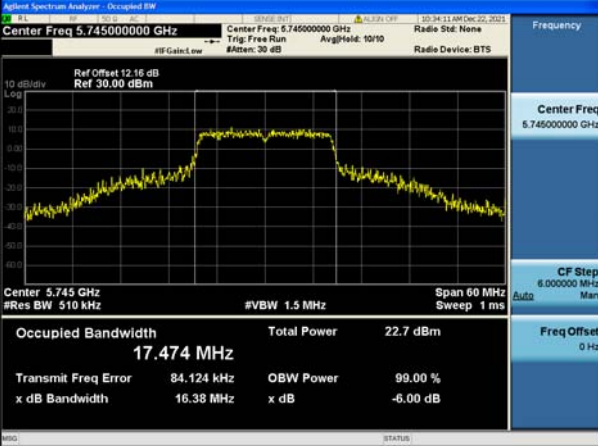
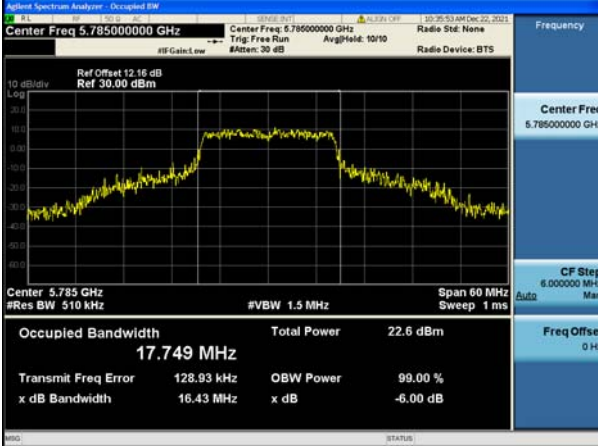
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

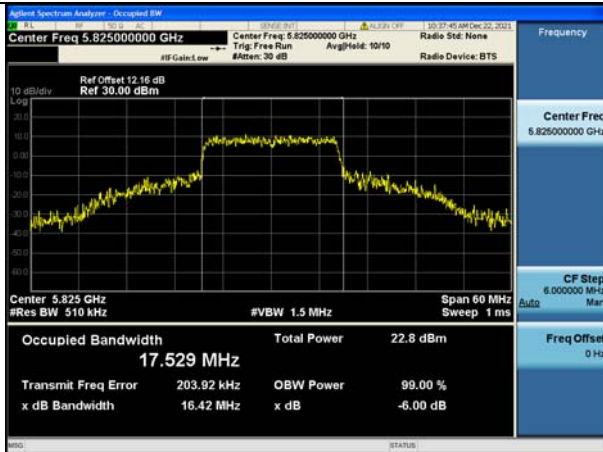
| Test Mode      | Antenna | Occupied Bandwidth (MHz) |              |              |
|----------------|---------|--------------------------|--------------|--------------|
|                |         | Channel No.0             | Channel No.1 | Channel No.2 |
|                |         | 5745MHz                  | 5785MHz      | 5825MHz      |
| 802.11a        | Chain0  | 17.474                   | 17.749       | 17.529       |
| 802.11n HT20   | Chain0  | 18.811                   | 19.099       | 18.938       |
| 802.11ac VHT20 | Chain0  | 18.659                   | 18.688       | 19.051       |

| Test Mode      | Antenna | Occupied Bandwidth (MHz) |              |              |
|----------------|---------|--------------------------|--------------|--------------|
|                |         | Channel No.0             | Channel No.1 | Channel No.2 |
|                |         | 5755MHz                  | 2437 MHz     | 5795MHz      |
| 802.11n HT40   | Chain0  | 36.934                   | ---          | 37.002       |
| 802.11ac VHT40 | Chain0  | 37.335                   | ---          | 37.682       |

| Test Mode      | Antenna | Occupied Bandwidth (MHz) |              |              |
|----------------|---------|--------------------------|--------------|--------------|
|                |         | Channel No.0             | Channel No.1 | Channel No.2 |
|                |         | 5775MHz                  | 2437 MHz     | 2462 MHz     |
| 802.11ac VHT80 | Chain0  | 77.944                   | ---          | ---          |

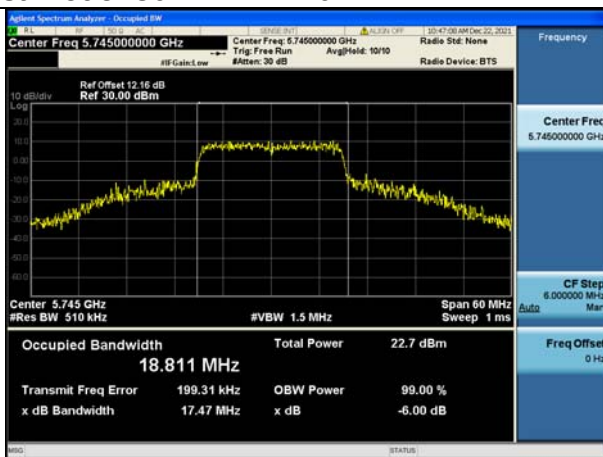
Test Mode: 802.11a

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| Test Mode:802.11a 5745MHz Chain0                                                    | Test Mode:802.11a 5785MHz Chain0                                                     |

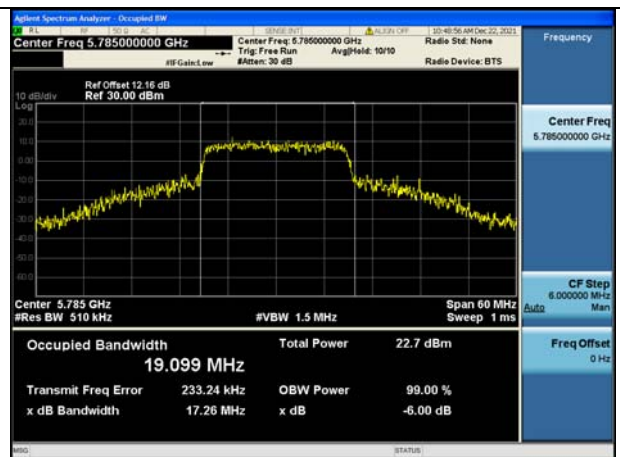


Test Mode:802.11a 5825MHz Chain0

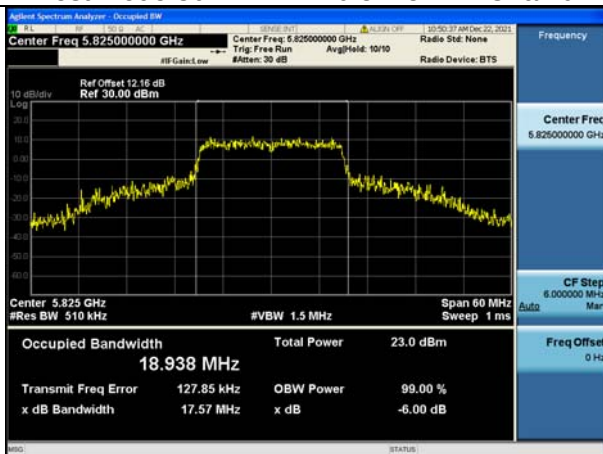
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

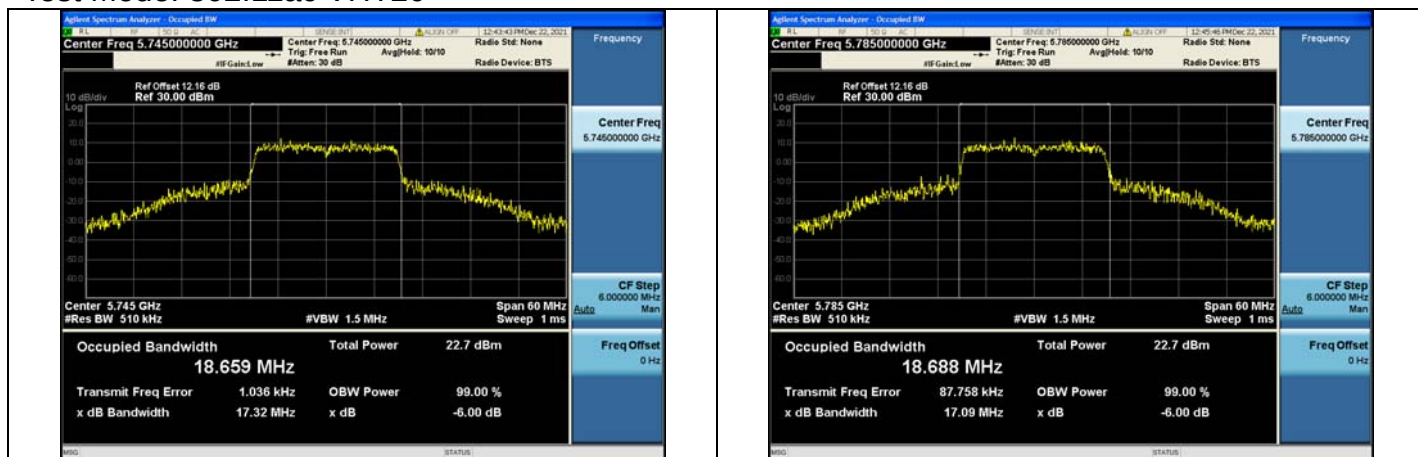


Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11ac VHT20



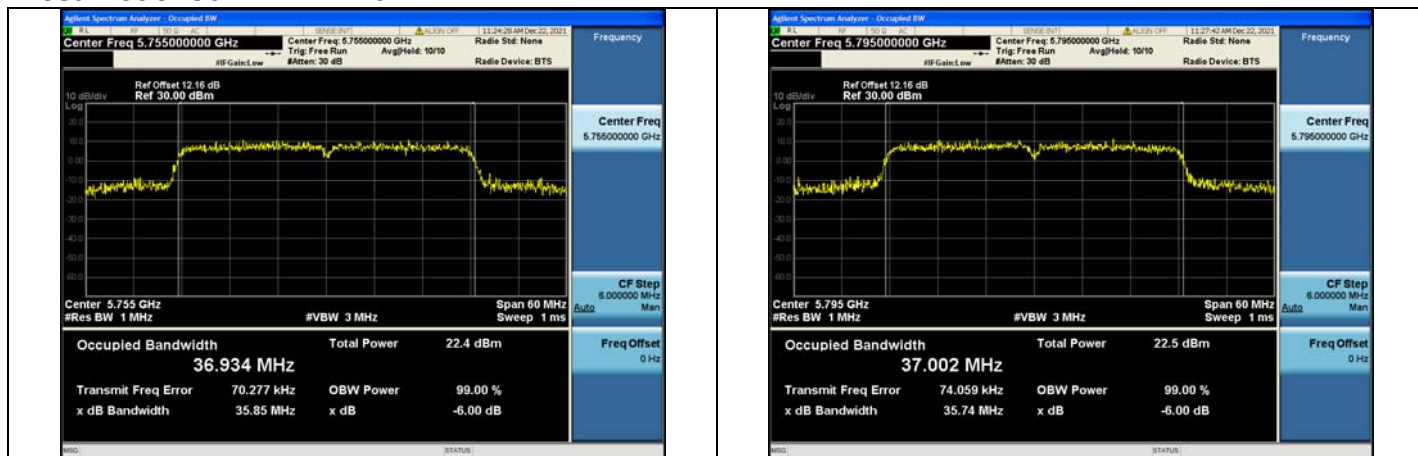
Test Mode: 802.11ac VHT20 5745MHz Chain0

Test Mode: 802.11ac VHT20 5785MHz Chain0



Test Mode: 802.11ac VHT20 5825MHz Chain0

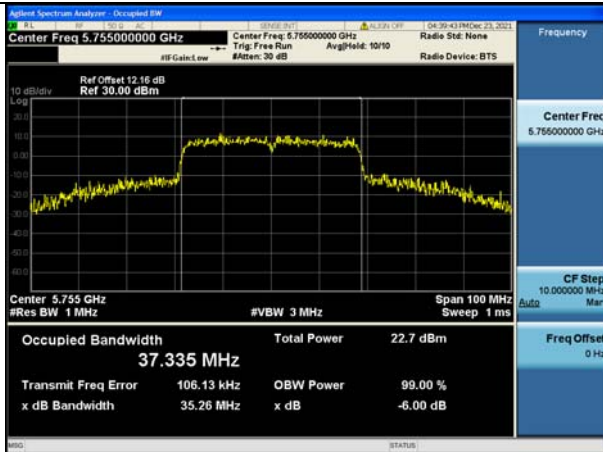
Test Mode: 802.11n HT40



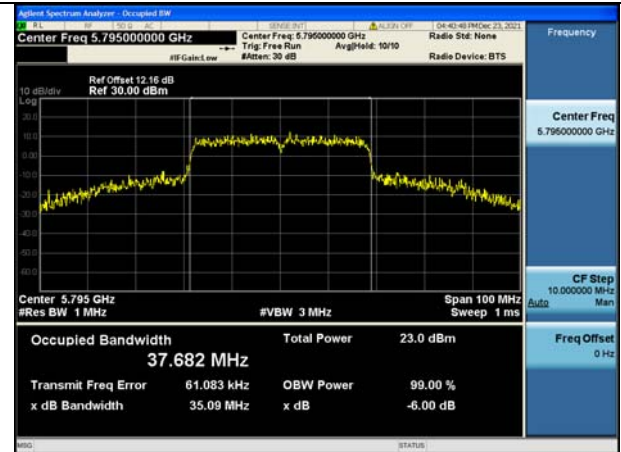
Test Mode: 802.11n HT40 5755MHz Chain0

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

## 6dB Bandwidth

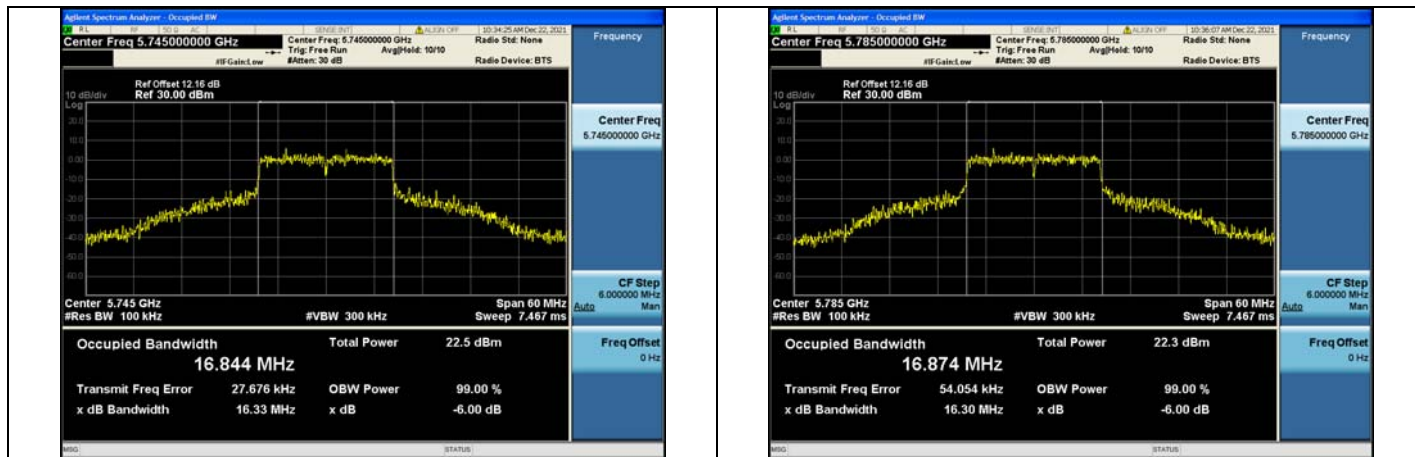
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

| Test Mode      | Antenna | 6dB Bandwidth (MHz) |              |              |
|----------------|---------|---------------------|--------------|--------------|
|                |         | Channel No.0        | Channel No.1 | Channel No.2 |
|                |         | 5745MHz             | 5785MHz      | 5825MHz      |
| 802.11a        | Chain0  | 16.33               | 16.30        | 16.50        |
| 802.11n HT20   | Chain0  | 17.01               | 17.24        | 16.72        |
| 802.11ac VHT20 | Chain0  | 17.15               | 16.86        | 17.60        |

| Test Mode      | Antenna | 6dB Bandwidth (MHz) |              |              |
|----------------|---------|---------------------|--------------|--------------|
|                |         | Channel No.0        | Channel No.1 | Channel No.2 |
|                |         | 5755MHz             | 2437 MHz     | 5795MHz      |
| 802.11n HT40   | Chain0  | 35.58               | ---          | 34.95        |
| 802.11ac VHT40 | Chain0  | 35.90               | ---          | 35.62        |

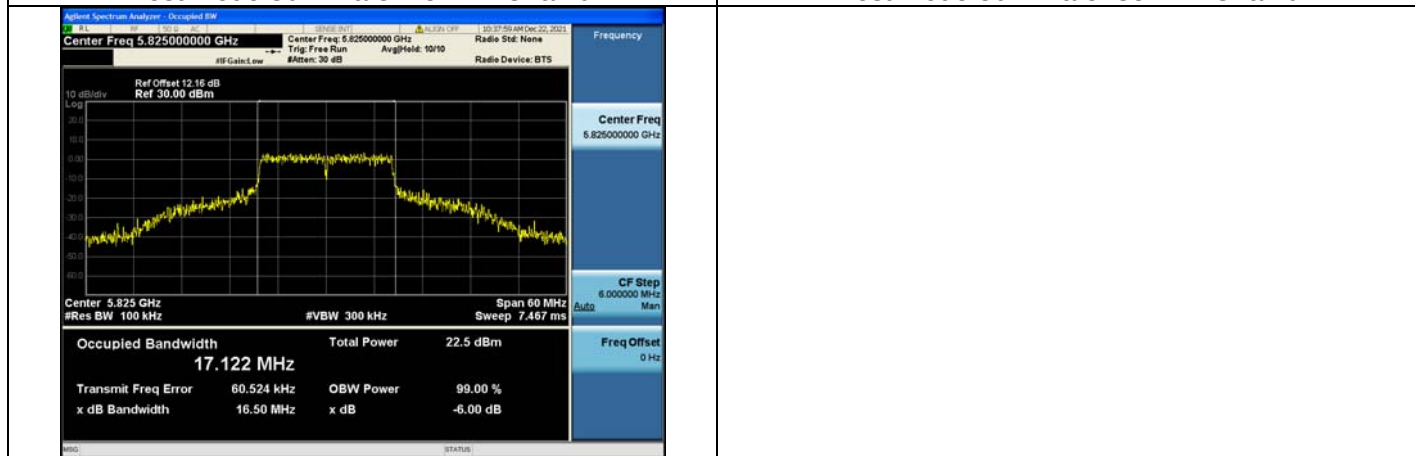
| Test Mode      | Antenna | 6dB Bandwidth (MHz) |              |              |
|----------------|---------|---------------------|--------------|--------------|
|                |         | Channel No.0        | Channel No.1 | Channel No.2 |
|                |         | 5775MHz             | 2437 MHz     | 2462 MHz     |
| 802.11ac VHT80 | Chain0  | 75.51               | ---          | ---          |

Test Mode: 802.11a



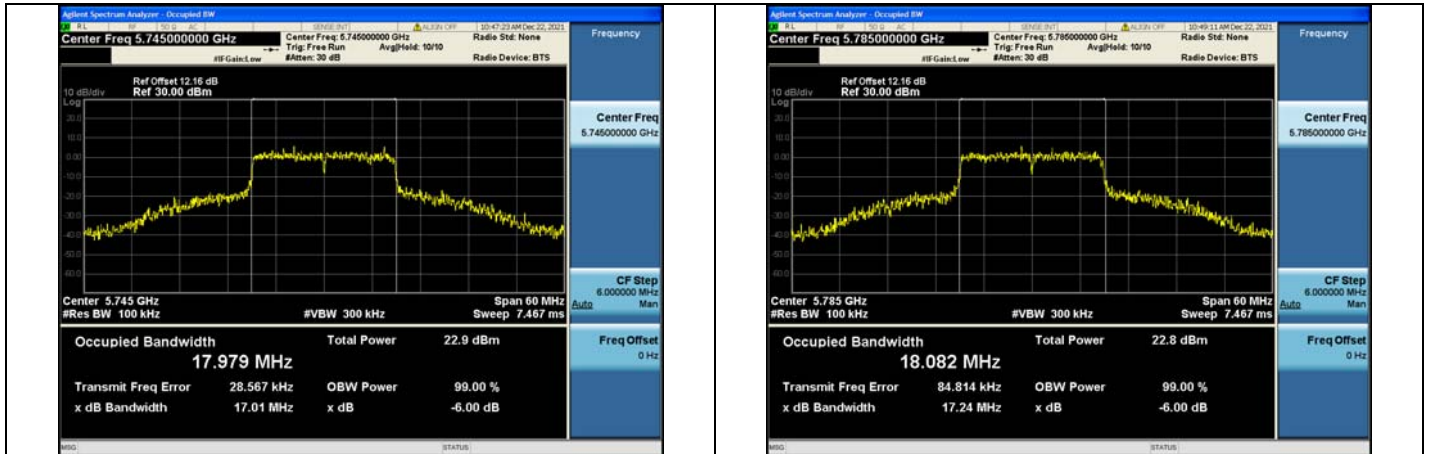
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



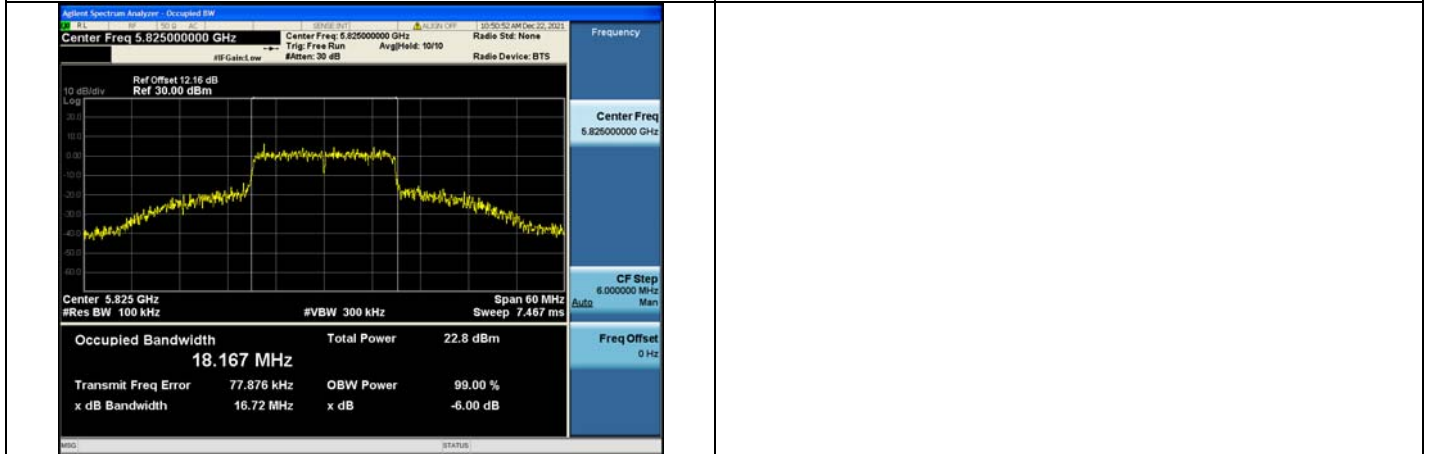
Test Mode:802.11a 5825MHz Chain0

Test Mode: 802.11n HT20



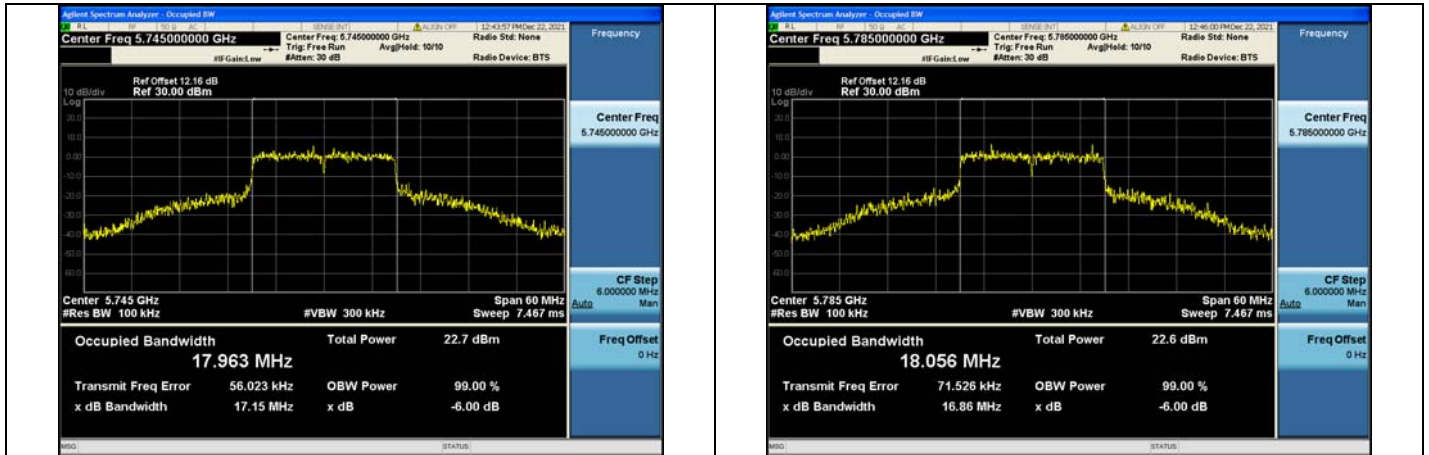
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



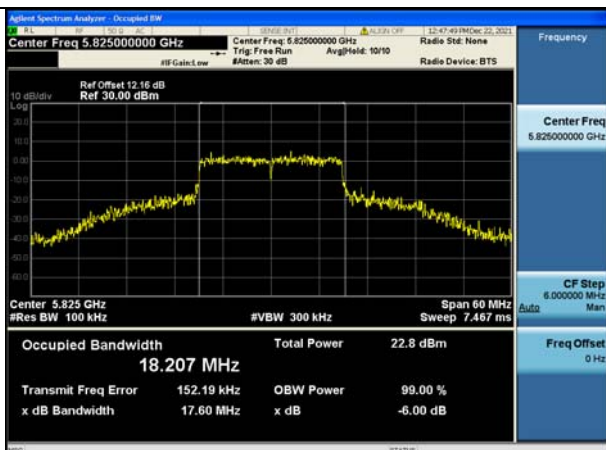
Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11ac VHT20



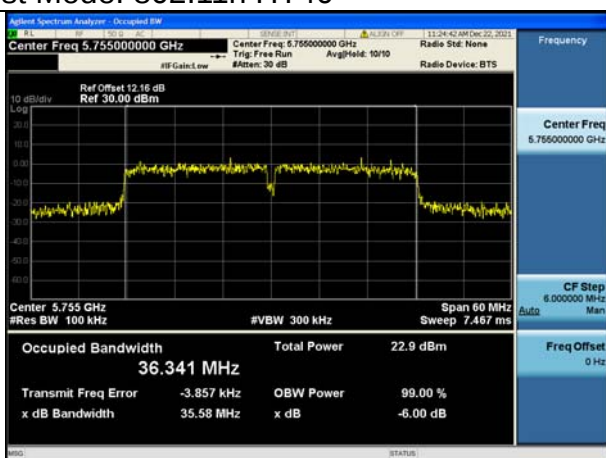
Test Mode:802.11ac VHT20 5745MHz Chain0

Test Mode:802.11ac VHT20 5785MHz Chain0



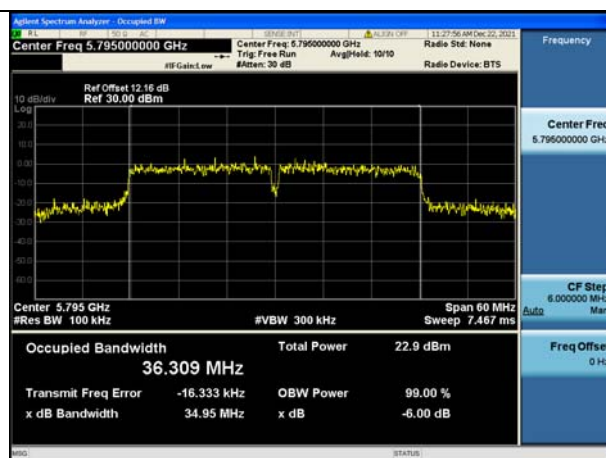
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

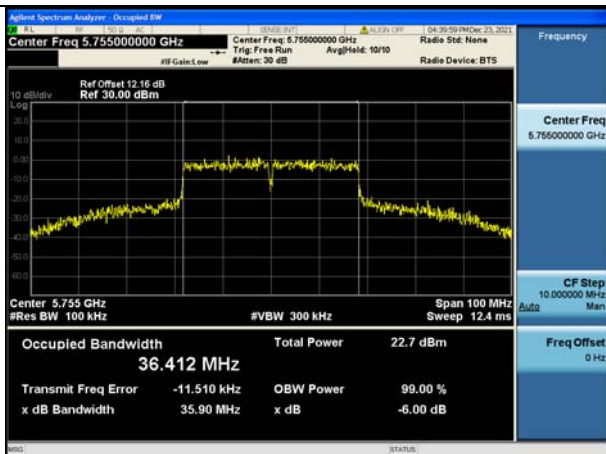


Test Mode:802.11n HT40 5755MHz Chain0

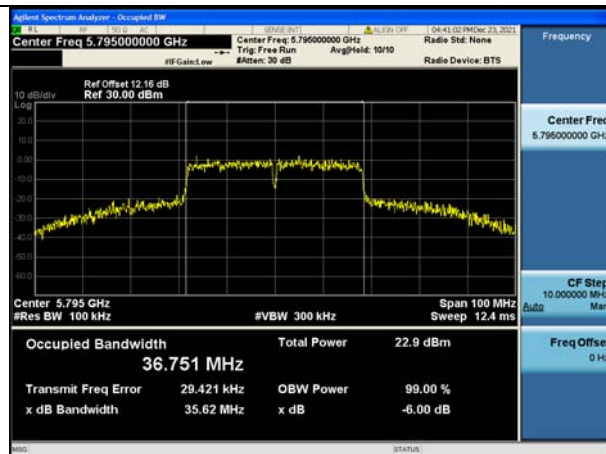
Test Mode: 802.11ac VHT40



Test Mode:802.11n HT40 5795MHz Chain0

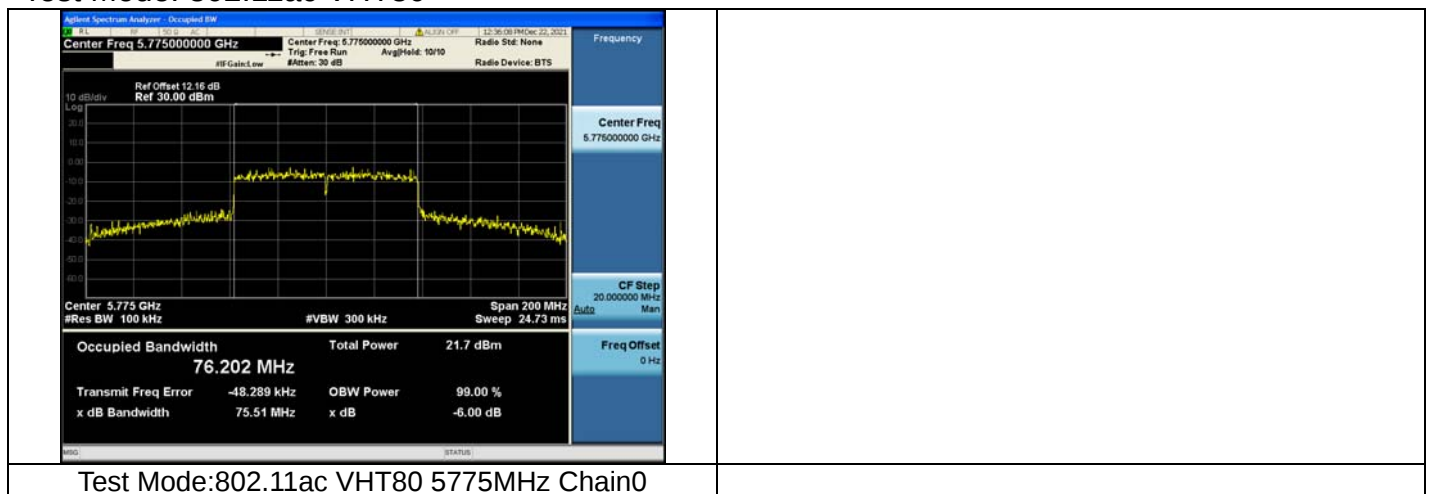


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



## Transmitter Power Spectral Density

Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

| Test Mode       | Antenna | Channel No.0          |                             | Channel No.1          |                             | Channel No.2          |                             |
|-----------------|---------|-----------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|-----------------------------|
|                 |         | 2412 MHz              |                             | 2437 MHz              |                             | 2462 MHz              |                             |
|                 |         | Correction Factor(dB) | Power Density (dBm/500kHz ) | Correction Factor(dB) | Power Density (dBm/500kHz ) | Correction Factor(dB) | Power Density (dBm/500kHz ) |
| 802.11a         | Chain0  | 0.10                  | 6.701                       | 0.10                  | 6.803                       | 0.10                  | 6.859                       |
| 802.11n HT20    | Chain0  | 0.12                  | 6.145                       | 0.12                  | 6.284                       | 0.12                  | 6.469                       |
| 802.11a c VHT20 | Chain0  | 0.13                  | 5.948                       | 0.13                  | 6.391                       | 0.13                  | 6.411                       |

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

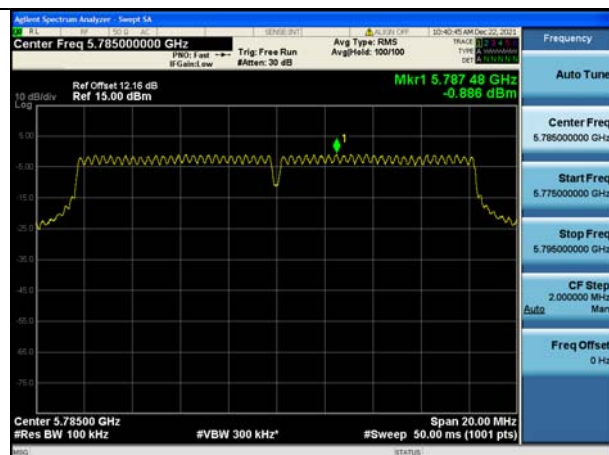
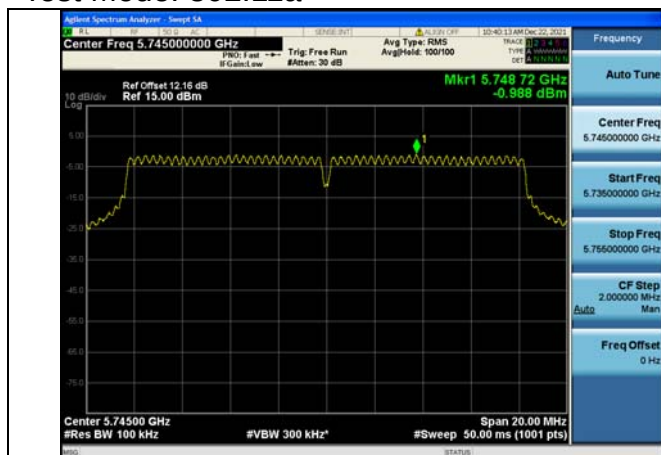
| Test Mode       | Antenna | Channel No.0          |                             | Channel No.1          |                             | Channel No.2          |                             |
|-----------------|---------|-----------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|-----------------------------|
|                 |         | 2412 MHz              |                             | 2437 MHz              |                             | 2462 MHz              |                             |
|                 |         | Correction Factor(dB) | Power Density (dBm/500kHz ) | Correction Factor(dB) | Power Density (dBm/500kHz ) | Correction Factor(dB) | Power Density (dBm/500kHz ) |
| 802.11n HT40    | Chain0  | 0.23                  | 3.496                       | ---                   | ---                         | 0.23                  | 3.713                       |
| 802.11a c VHT40 | Chain0  | 0.22                  | 3.636                       | ---                   | ---                         | 0.22                  | 3.543                       |

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

| Test Mode       | Antenna | Channel No.0          |                             | Channel No.1          |                             | Channel No.2          |                             |
|-----------------|---------|-----------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|-----------------------------|
|                 |         | 2412 MHz              |                             | 2437 MHz              |                             | 2462 MHz              |                             |
|                 |         | Correction Factor(dB) | Power Density (dBm/500kHz ) | Correction Factor(dB) | Power Density (dBm/500kHz ) | Correction Factor(dB) | Power Density (dBm/500kHz ) |
| 802.11a c VHT80 | Chain0  | 0.40                  | 0.764                       | ---                   | ---                         | ---                   | ---                         |

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

## 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

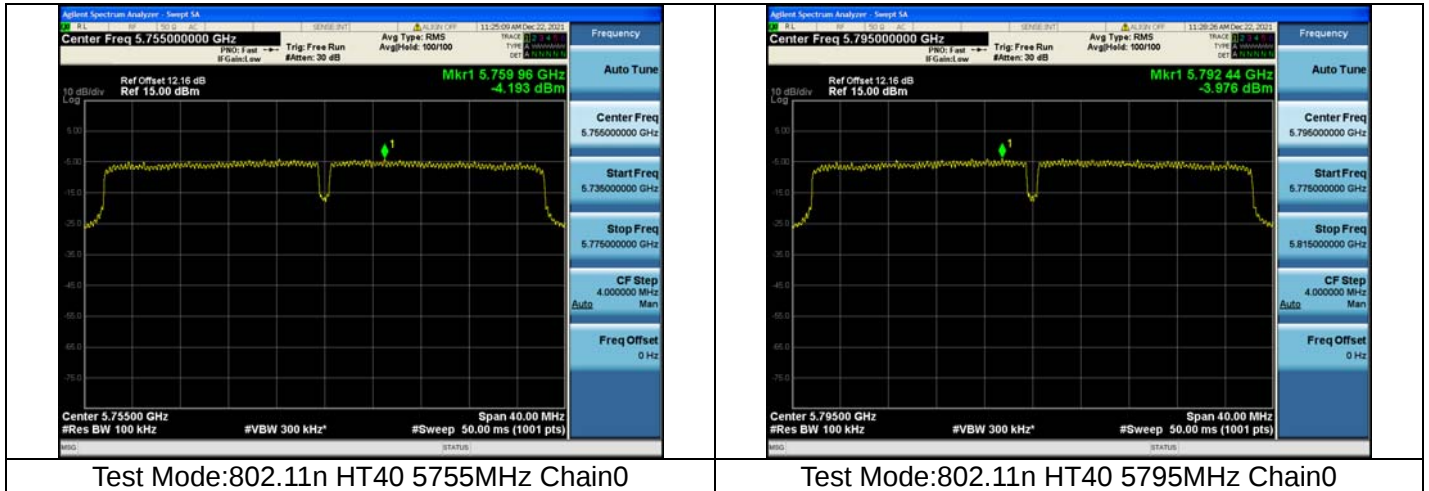


Test Mode:802.11ac VHT20 5785MHz Chain0



Test Mode:802.11ac VHT20 5825MHz Chain0

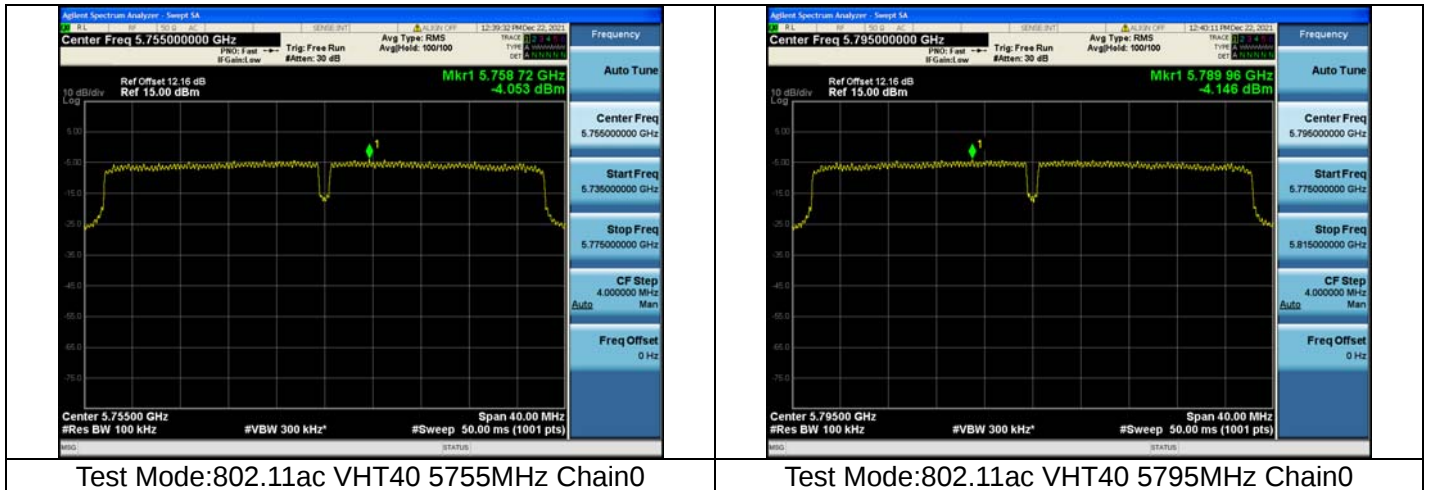
## Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0

Test Mode:802.11n HT40 5795MHz Chain0

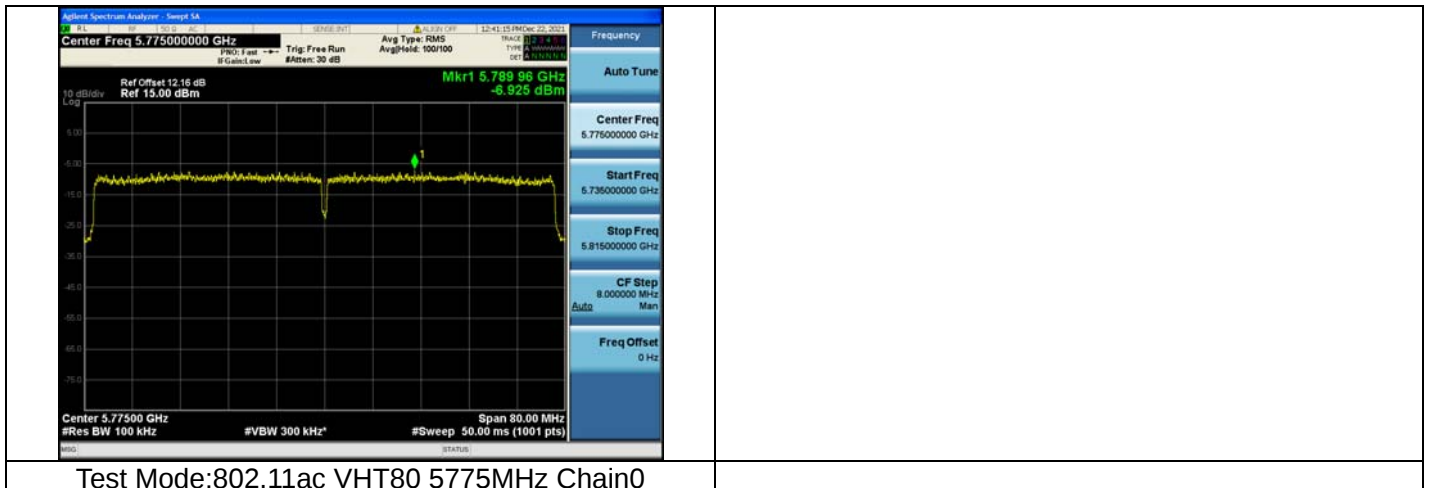
## Test Mode: 802.11ac VHT40



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