

**APPENDIX A – TEST DATA OF CONDUCTED EMISSION****Duty Cycle**

| Test Mode      | Antenna | Frequency (MHz) | Duty Cycle (%) | Correction Factor(dB) | Plot   |
|----------------|---------|-----------------|----------------|-----------------------|--------|
| 802.11a        | Chain0  | 5745            | 99.88%         | 0                     | Fig.1  |
| 802.11a        | Chain1  | 5745            | 99.87%         | 0                     | Fig.2  |
| 802.11n HT20   | Chain0  | 5745            | 99.97%         | 0                     | Fig.3  |
| 802.11n HT20   | Chain1  | 5745            | 88.89%         | 0.51                  | Fig.4  |
| 802.11ac VHT20 | Chain0  | 5745            | 99.95%         | 0                     | Fig.5  |
| 802.11ac VHT20 | Chain1  | 5745            | 99.95%         | 0                     | Fig.6  |
| 802.11ax HE20  | Chain0  | 5745            | 99.94%         | 0                     | Fig.7  |
| 802.11ax HE20  | Chain1  | 5745            | 99.90%         | 0                     | Fig.8  |
| 802.11n HT40   | Chain0  | 5755            | 99.95%         | 0                     | Fig.9  |
| 802.11n HT40   | Chain1  | 5755            | 99.96%         | 0                     | Fig.10 |
| 802.11ac VHT40 | Chain0  | 5755            | 99.94%         | 0                     | Fig.11 |
| 802.11ac VHT40 | Chain1  | 5755            | 99.98%         | 0                     | Fig.12 |
| 802.11ax HE40  | Chain0  | 5755            | 99.98%         | 0                     | Fig.13 |
| 802.11ax HE40  | Chain1  | 5755            | 99.96%         | 0                     | Fig.14 |
| 802.11ac VHT80 | Chain0  | 5775            | 99.98%         | 0                     | Fig.15 |
| 802.11ac VHT80 | Chain1  | 5775            | 99.97%         | 0                     | Fig.16 |
| 802.11ax HE80  | Chain0  | 5775            | 99.97%         | 0                     | Fig.17 |
| 802.11ax HE80  | Chain1  | 5775            | 99.96%         | 0                     | Fig.18 |

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

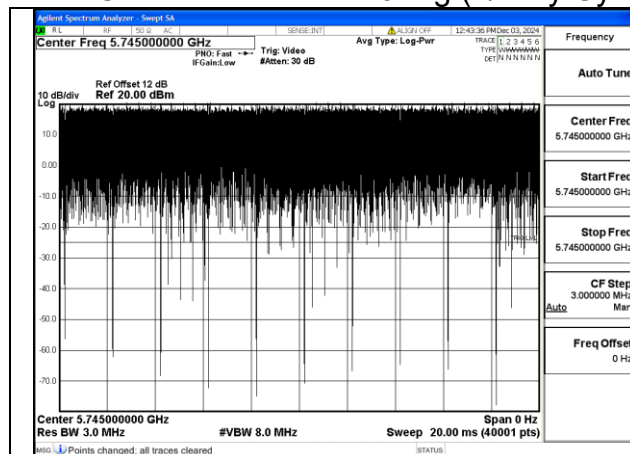


Fig.1

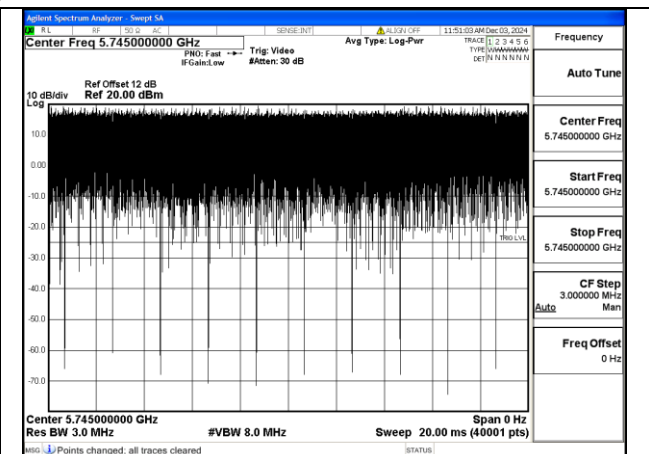


Fig.2



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No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

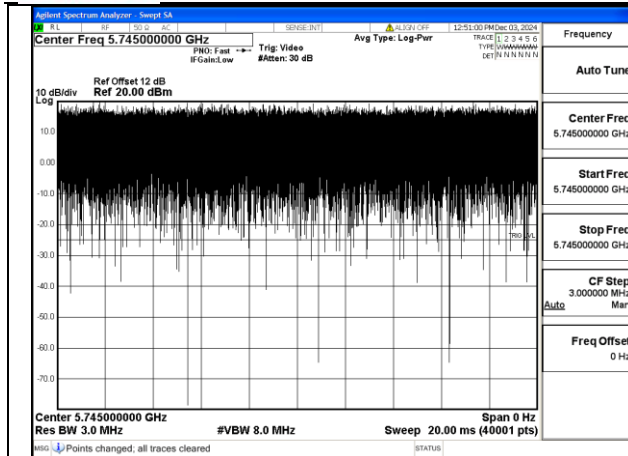


Fig.3

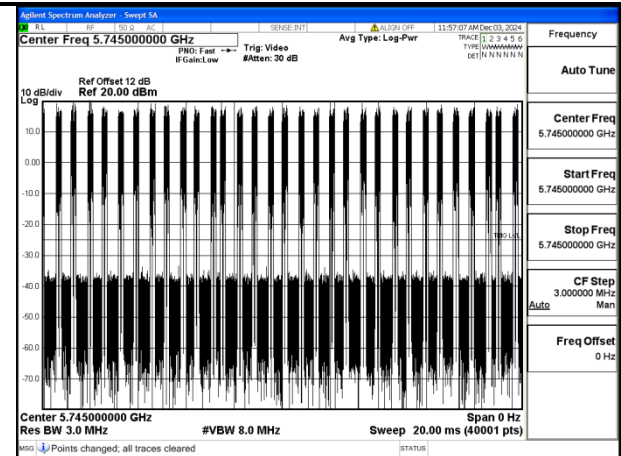


Fig.4

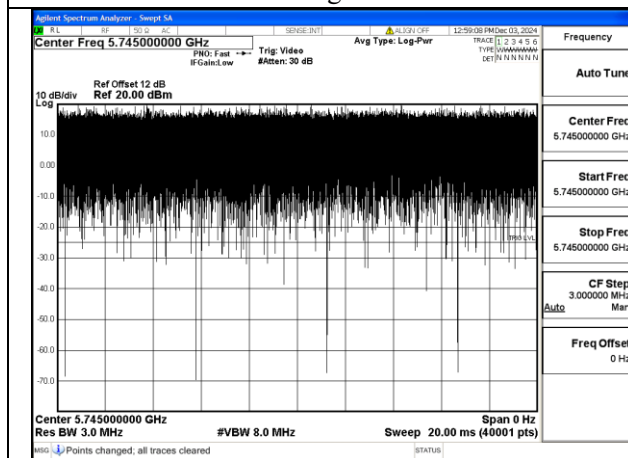


Fig.5

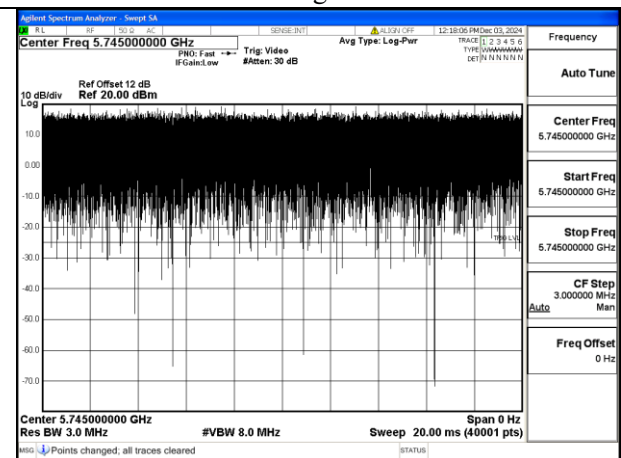


Fig.6

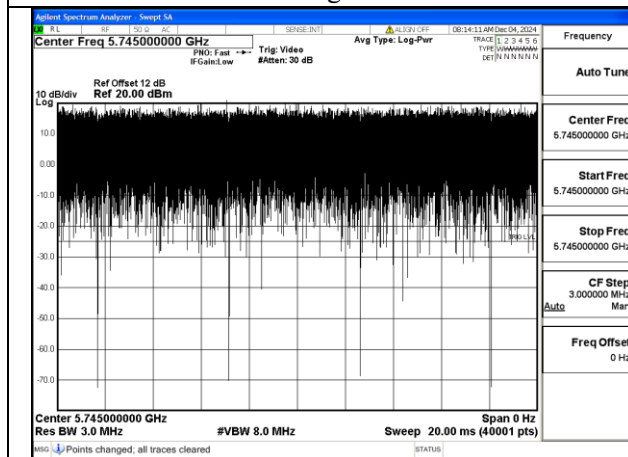


Fig.7

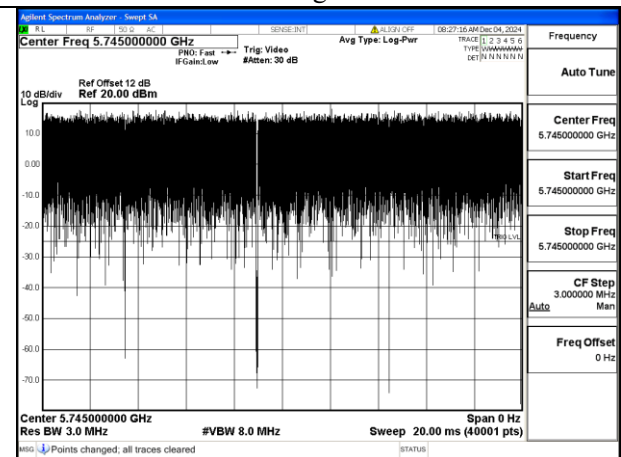


Fig.8



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No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

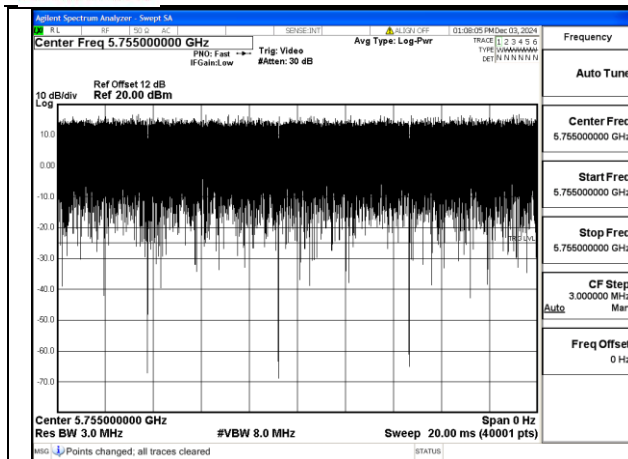


Fig.9

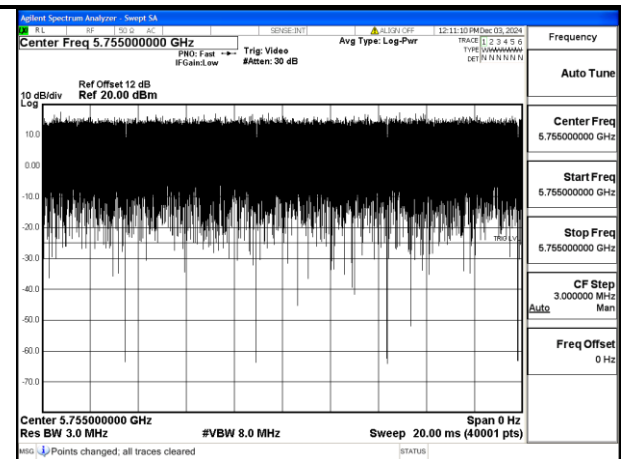


Fig.10

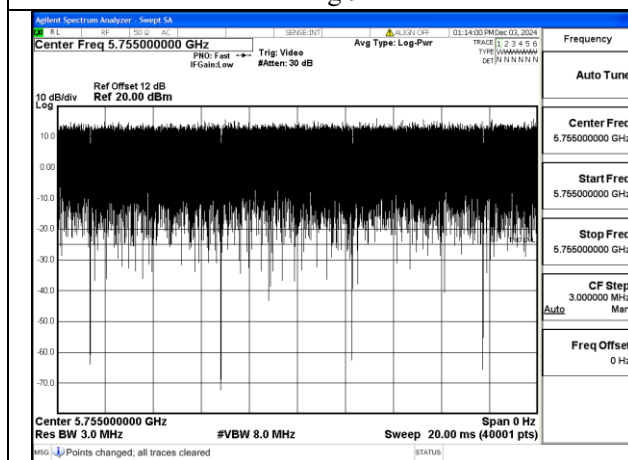


Fig.11

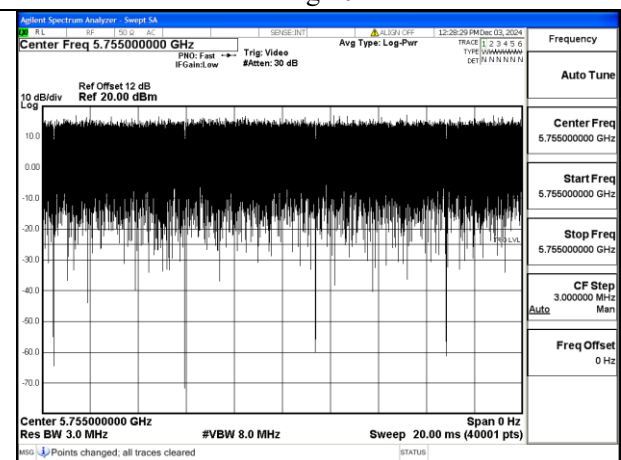


Fig.12

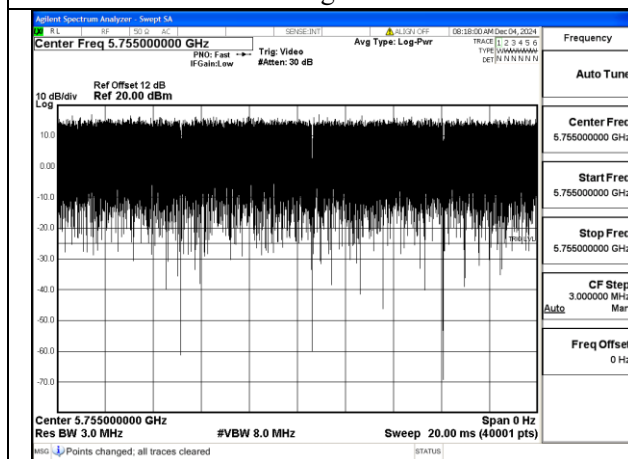


Fig.13

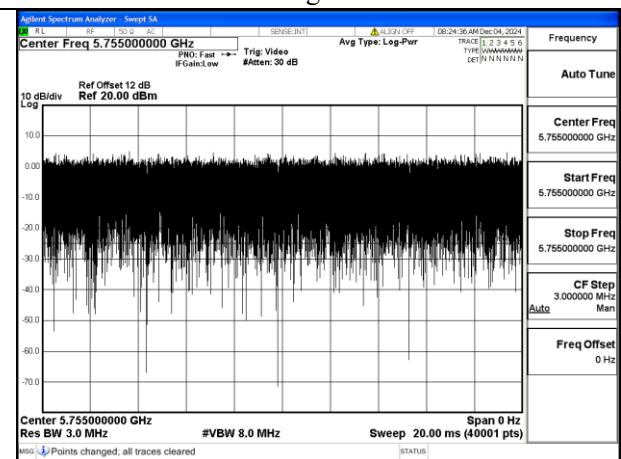


Fig.14

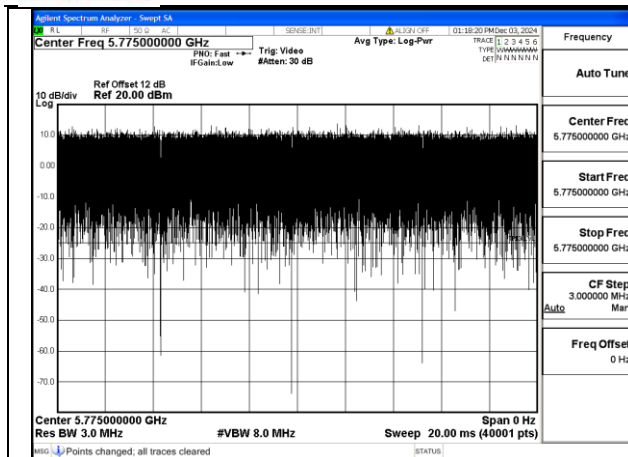


Fig.15

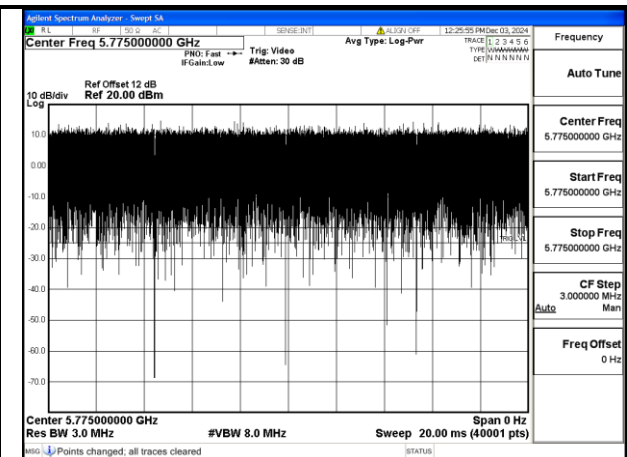


Fig.16

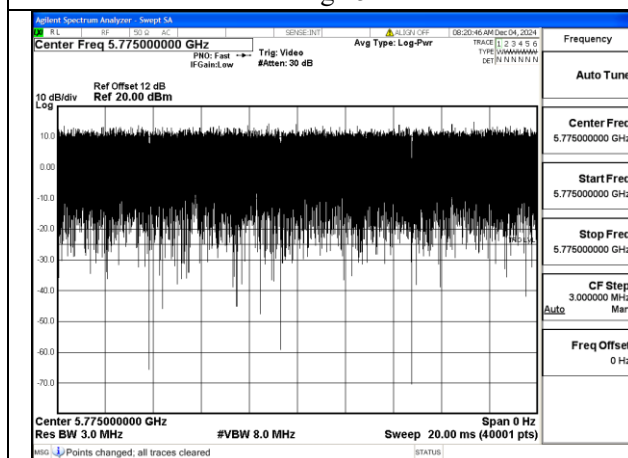


Fig.17

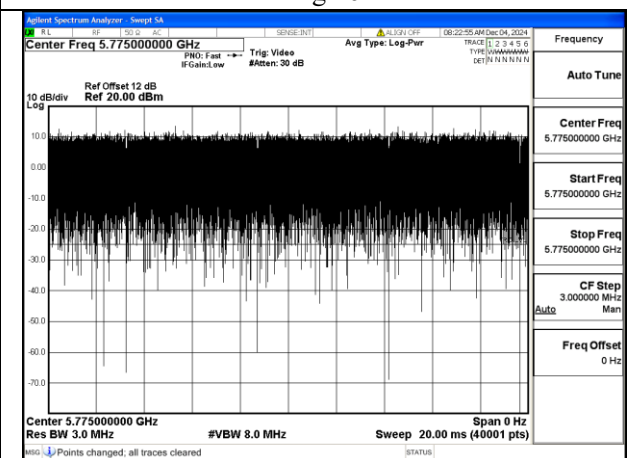


Fig.18

**Output Power**

| Mode           | Tones/<br>RUIndex | Frequency<br>(MHz) | Antenna | Conductedaverage<br>power<br>output(dBm) | EIRP<br>(dBm) |
|----------------|-------------------|--------------------|---------|------------------------------------------|---------------|
| 802.11a        | NA                | 5745               | Chain0  | 15.70                                    | 20.03         |
| 802.11a        | NA                | 5745               | Chain1  | 15.84                                    | 20.17         |
| 802.11a        | NA                | 5785               | Chain0  | 14.52                                    | 18.85         |
| 802.11a        | NA                | 5785               | Chain1  | 15.86                                    | 20.19         |
| 802.11a        | NA                | 5825               | Chain0  | 14.74                                    | 19.07         |
| 802.11a        | NA                | 5825               | Chain1  | 15.22                                    | 19.55         |
| 802.11n HT20   | NA                | 5745               | Chain0  | 15.72                                    | 20.05         |
| 802.11n HT20   | NA                | 5745               | Chain1  | 15.33                                    | 19.66         |
| 802.11n HT20   | NA                | 5745               | MIMO    | 18.54                                    | 22.87         |
| 802.11n HT20   | NA                | 5785               | Chain0  | 14.76                                    | 19.09         |
| 802.11n HT20   | NA                | 5785               | Chain1  | 15.66                                    | 19.99         |
| 802.11n HT20   | NA                | 5785               | MIMO    | 18.24                                    | 22.57         |
| 802.11n HT20   | NA                | 5825               | Chain0  | 14.36                                    | 18.69         |
| 802.11n HT20   | NA                | 5825               | Chain1  | 14.98                                    | 19.31         |
| 802.11n HT20   | NA                | 5825               | MIMO    | 17.69                                    | 22.02         |
| 802.11ac VHT20 | NA                | 5745               | Chain0  | 15.71                                    | 20.04         |
| 802.11ac VHT20 | NA                | 5745               | Chain1  | 14.87                                    | 19.20         |
| 802.11ac VHT20 | NA                | 5745               | MIMO    | 18.32                                    | 22.65         |
| 802.11ac VHT20 | NA                | 5785               | Chain0  | 14.74                                    | 19.07         |
| 802.11ac VHT20 | NA                | 5785               | Chain1  | 14.62                                    | 18.95         |
| 802.11ac VHT20 | NA                | 5785               | MIMO    | 17.69                                    | 22.02         |
| 802.11ac VHT20 | NA                | 5825               | Chain0  | 14.31                                    | 18.64         |
| 802.11ac VHT20 | NA                | 5825               | Chain1  | 14.13                                    | 18.46         |
| 802.11ac VHT20 | NA                | 5825               | MIMO    | 17.23                                    | 21.56         |
| 802.11n HT40   | NA                | 5755               | Chain0  | 15.41                                    | 19.84         |
| 802.11n HT40   | NA                | 5755               | Chain1  | 15.71                                    | 20.14         |
| 802.11n HT40   | NA                | 5755               | MIMO    | 18.57                                    | 22.90         |
| 802.11n HT40   | NA                | 5795               | Chain0  | 14.18                                    | 18.51         |
| 802.11n HT40   | NA                | 5795               | Chain1  | 15.26                                    | 19.59         |
| 802.11n HT40   | NA                | 5795               | MIMO    | 17.76                                    | 22.09         |
| 802.11ac VHT40 | NA                | 5755               | Chain0  | 15.52                                    | 19.85         |
| 802.11ac VHT40 | NA                | 5755               | Chain1  | 15.74                                    | 20.07         |
| 802.11ac VHT40 | NA                | 5755               | MIMO    | 18.64                                    | 22.97         |
| 802.11ac VHT40 | NA                | 5795               | Chain0  | 14.20                                    | 18.53         |
| 802.11ac VHT40 | NA                | 5795               | Chain1  | 15.25                                    | 19.58         |
| 802.11ac VHT40 | NA                | 5795               | MIMO    | 17.77                                    | 22.10         |
| 802.11ac VHT80 | NA                | 5775               | Chain0  | 14.96                                    | 19.29         |
| 802.11ac VHT80 | NA                | 5775               | Chain1  | 16.09                                    | 20.42         |
| 802.11ac VHT80 | NA                | 5775               | MIMO    | 18.57                                    | 22.90         |

| Mode | Tones/<br>RUIndex | Frequency<br>(MHz) | Antenna | Conductedaverage<br>power<br>output(dBm) | EIRP<br>(dBm) |
|------|-------------------|--------------------|---------|------------------------------------------|---------------|
|------|-------------------|--------------------|---------|------------------------------------------|---------------|



|               |         |      |        |       |       |
|---------------|---------|------|--------|-------|-------|
| 802.11ax HE20 | 242T 61 | 5745 | Chain0 | 15.46 | 19.79 |
| 802.11ax HE20 | 242T 61 | 5745 | Chain1 | 15.39 | 19.72 |
| 802.11ax HE20 | 242T 61 | 5745 | MIMO   | 18.44 | 22.77 |
| 802.11ax HE20 | 242T 61 | 5785 | Chain0 | 15.18 | 19.51 |
| 802.11ax HE20 | 242T 61 | 5785 | Chain1 | 15.56 | 19.89 |
| 802.11ax HE20 | 242T 61 | 5785 | MIMO   | 18.38 | 22.71 |
| 802.11ax HE20 | 242T 61 | 5825 | Chain0 | 15.02 | 19.35 |
| 802.11ax HE20 | 242T 61 | 5825 | Chain1 | 15.06 | 19.39 |
| 802.11ax HE20 | 242T 61 | 5825 | MIMO   | 18.05 | 22.38 |
| 802.11ax HE40 | 484T 65 | 5755 | Chain0 | 15.81 | 20.14 |
| 802.11ax HE40 | 484T 65 | 5755 | Chain1 | 15.96 | 20.29 |
| 802.11ax HE40 | 484T 65 | 5755 | MIMO   | 18.90 | 23.23 |
| 802.11ax HE40 | 484T 65 | 5795 | Chain0 | 15.39 | 19.72 |
| 802.11ax HE40 | 484T 65 | 5795 | Chain1 | 15.78 | 20.11 |
| 802.11ax HE40 | 484T 65 | 5795 | MIMO   | 18.60 | 22.93 |
| 802.11ax HE80 | 996T 67 | 5775 | Chain0 | 15.38 | 19.71 |
| 802.11ax HE80 | 996T 67 | 5775 | Chain1 | 15.76 | 20.09 |
| 802.11ax HE80 | 996T 67 | 5775 | MIMO   | 18.58 | 22.91 |



## Emission Bandwidth

Offset 12dB = Attenuator + Temporary antenna connector loss + Cable loss

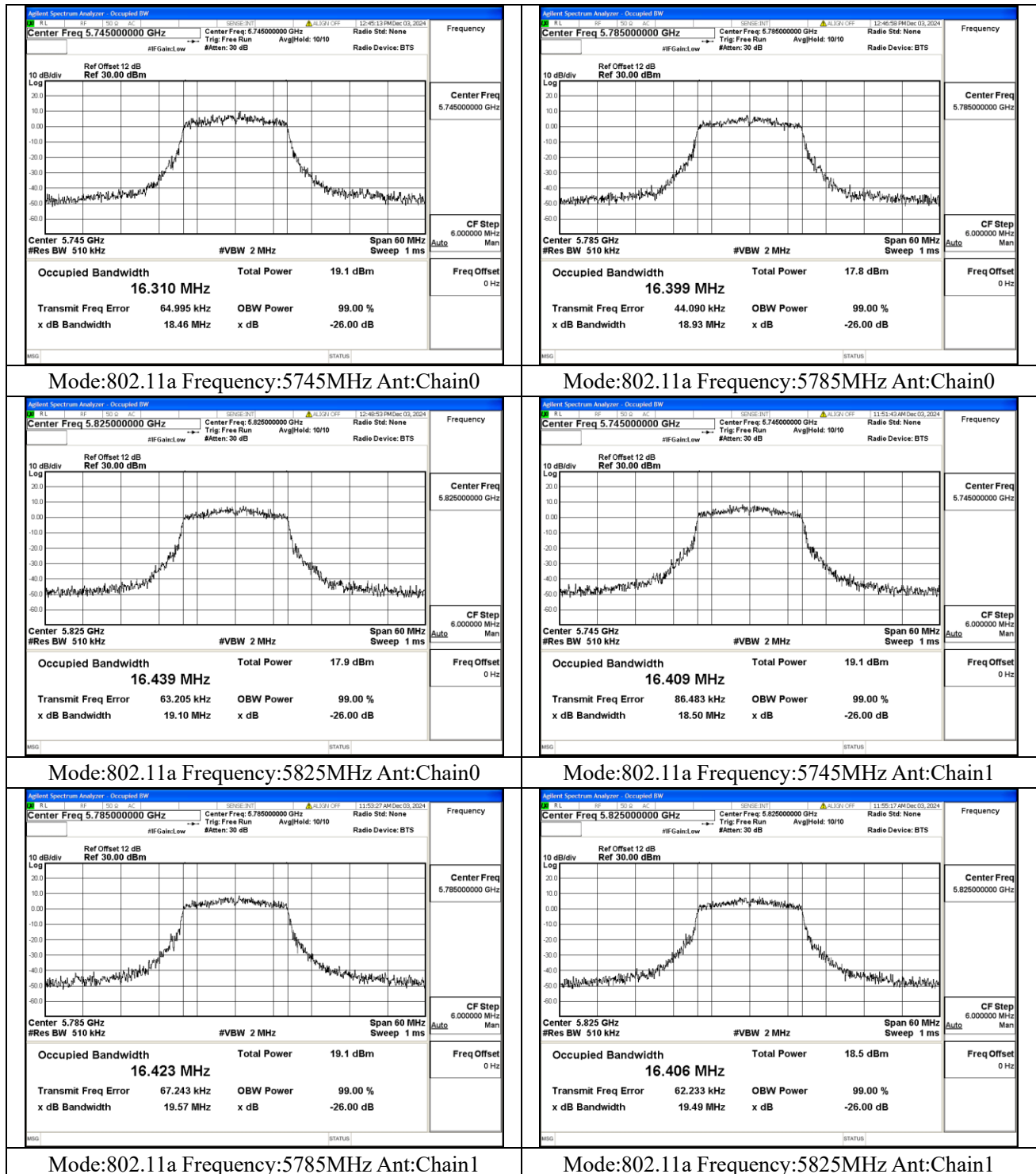
| Test Mode      | Antenna | 26dB Bandwidth (MHz) |         |         |
|----------------|---------|----------------------|---------|---------|
|                |         | 5745MHz              | 5785MHz | 5825MHz |
| 802.11a        | Chain0  | 18.46                | 18.93   | 19.10   |
| 802.11a        | Chain1  | 18.50                | 19.57   | 19.49   |
| 802.11n HT20   | Chain0  | 19.63                | 19.92   | 20.31   |
| 802.11n HT20   | Chain1  | 17.49                | 20.14   | 19.82   |
| 802.11ac VHT20 | Chain0  | 19.73                | 20.02   | 19.62   |
| 802.11ac VHT20 | Chain1  | 19.91                | 19.80   | 20.23   |
| 802.11ax HE20  | Chain0  | 20.69                | 20.46   | 20.14   |
| 802.11ax HE20  | Chain1  | 20.65                | 20.87   | 20.51   |

| Test Mode      | Antenna | 26dB Bandwidth (MHz) |     |         |
|----------------|---------|----------------------|-----|---------|
|                |         | 5755MHz              | --- | 5795MHz |
| 802.11n HT40   | Chain0  | 39.04                | --- | 39.83   |
| 802.11n HT40   | Chain1  | 39.05                | --- | 39.35   |
| 802.11ac VHT40 | Chain0  | 39.31                | --- | 39.63   |
| 802.11ac VHT40 | Chain1  | 39.29                | --- | 39.33   |
| 802.11ax HE40  | Chain0  | 40.17                | --- | 40.12   |
| 802.11ax HE40  | Chain1  | 40.20                | --- | 40.40   |

| Test Mode      | Antenna | 26dB Bandwidth (MHz) |     |     |
|----------------|---------|----------------------|-----|-----|
|                |         | 5775MHz              | --- | --- |
| 802.11ac VHT80 | Chain0  | 81.18                | --- | --- |
| 802.11ac VHT80 | Chain1  | 80.71                | --- | --- |
| 802.11ax HE80  | Chain0  | 81.77                | --- | --- |
| 802.11ax HE80  | Chain1  | 81.97                | --- | --- |



Test Mode: 802.11a



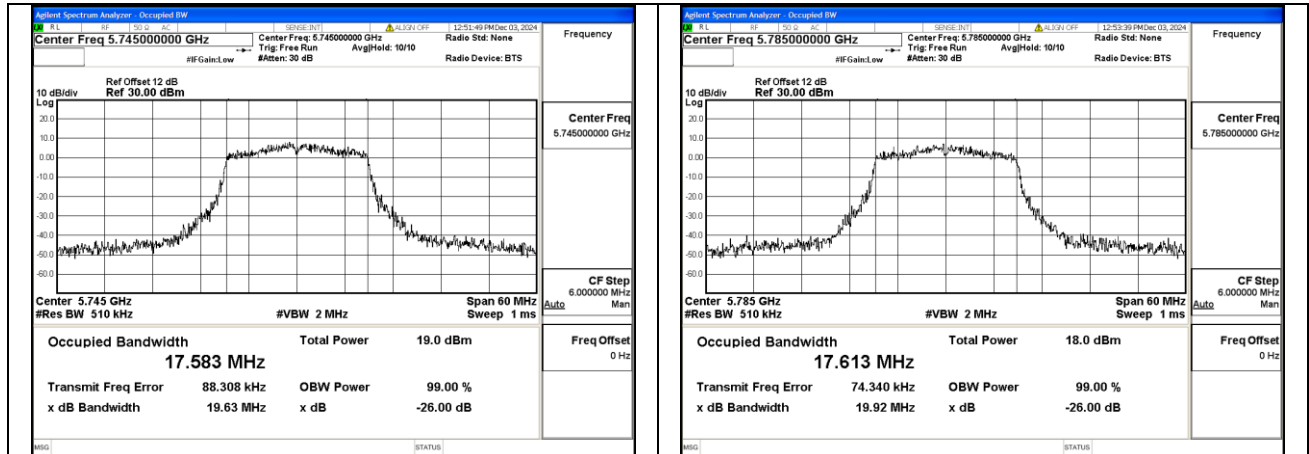




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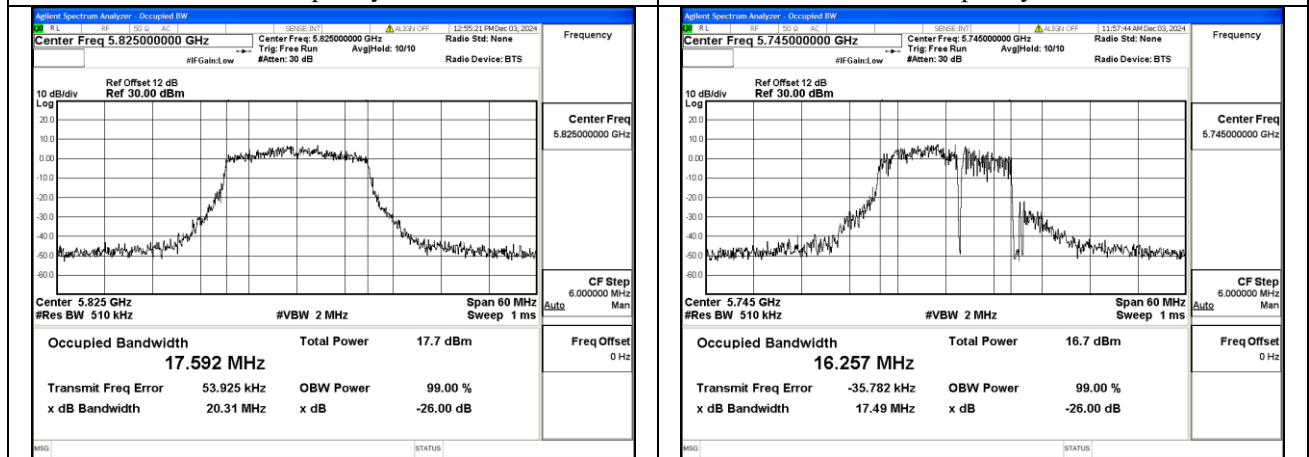
No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

## Test Mode: 802.11n HT20



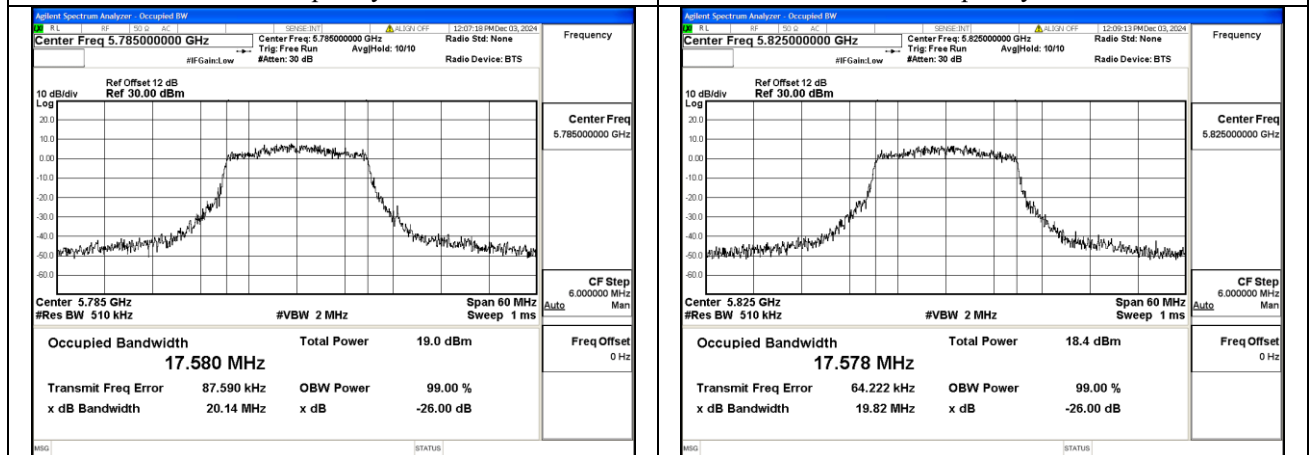
## Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

## Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



## Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

## Mode:802.11n HT20 Frequency:5745MHz Ant:Chain1



## Mode:802.11n HT20 Frequency:5785MHz Ant:Chain1

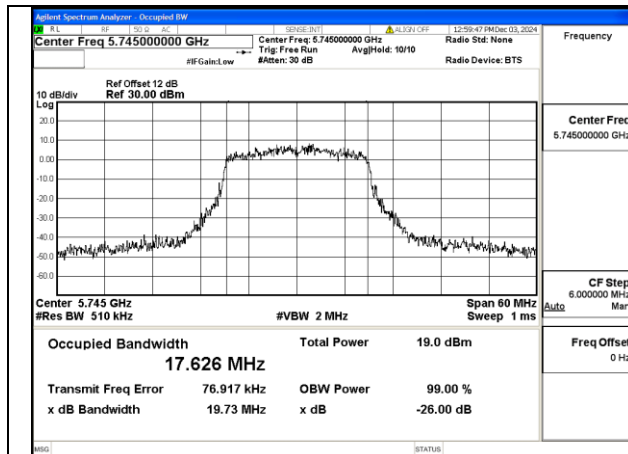
## Mode:802.11n HT20 Frequency:5825MHz Ant:Chain1



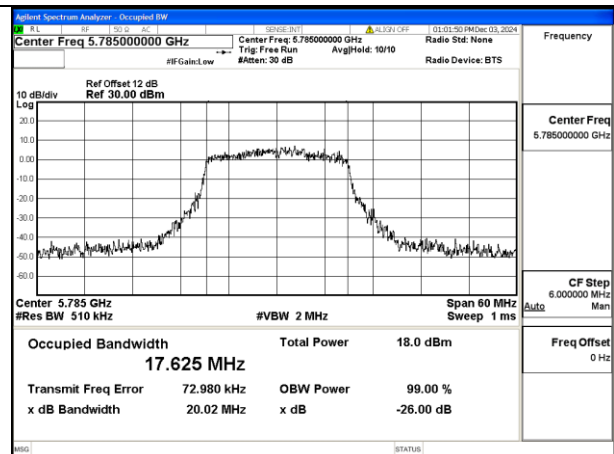
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No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

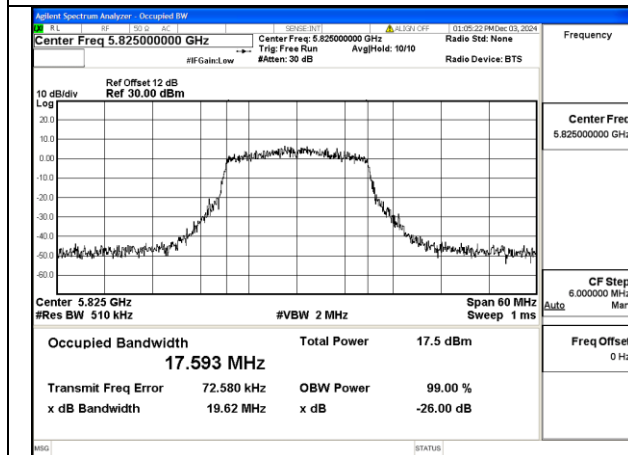
## Test Mode: 802.11ac VHT20



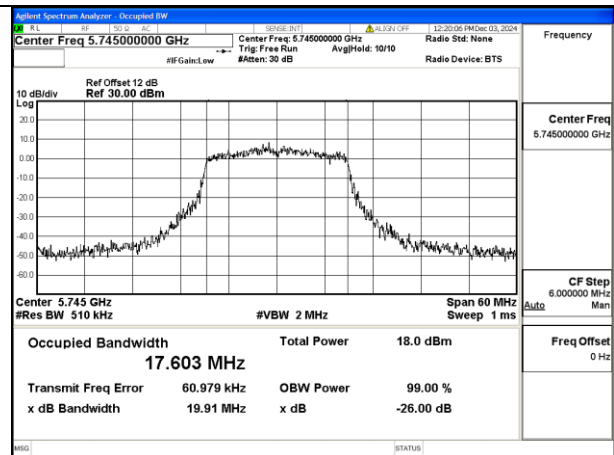
Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain0



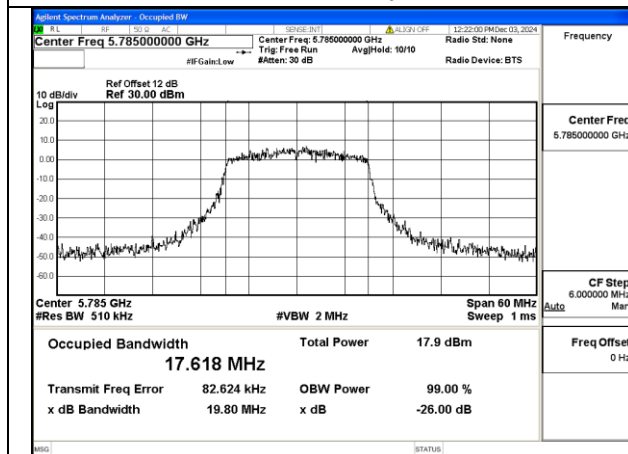
Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain0



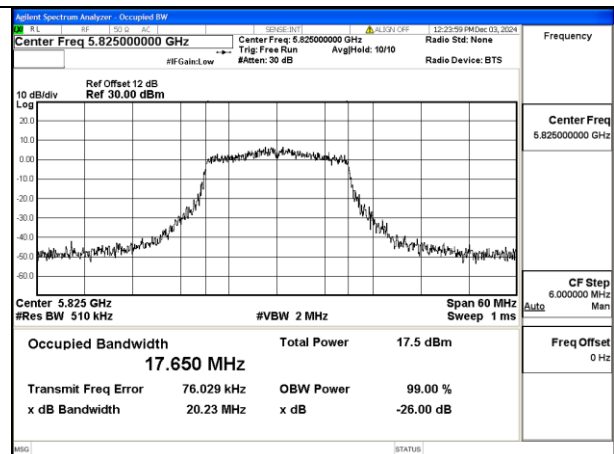
Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain1



Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain1



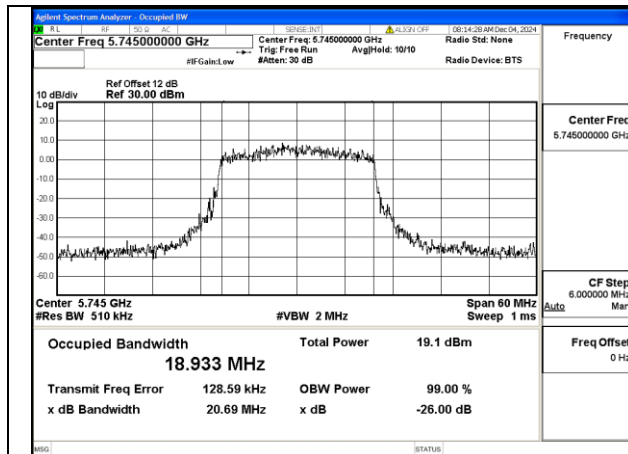
Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain1



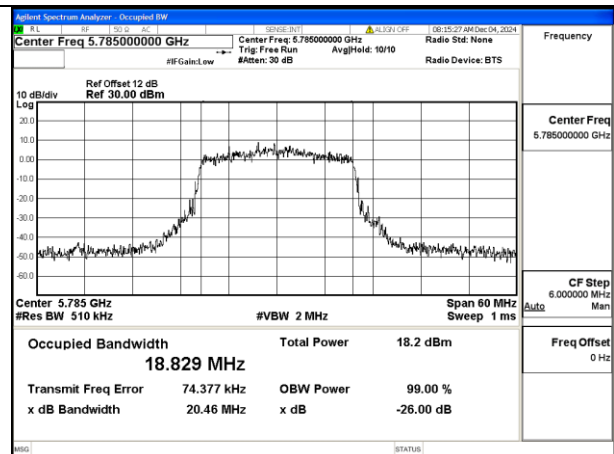
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No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

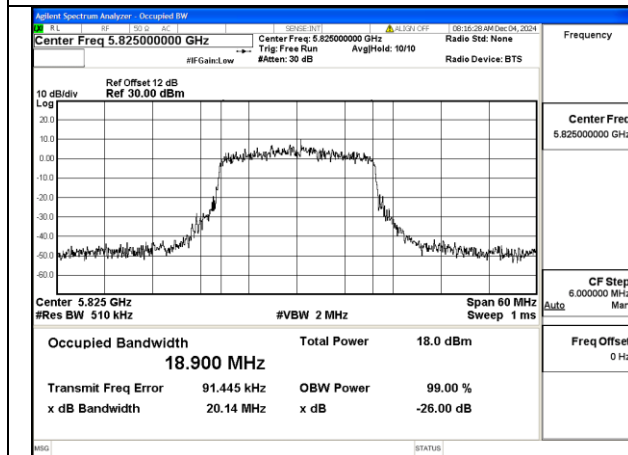
## Test Mode: 802.11ax HE20



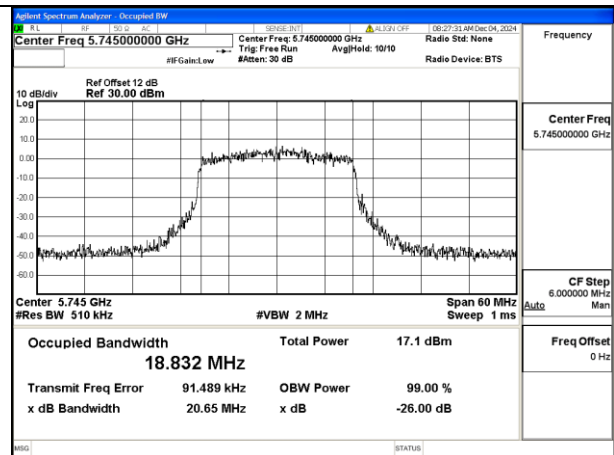
Mode:802.11ax HE20 Frequency:5745MHz  
Ant:Chain0



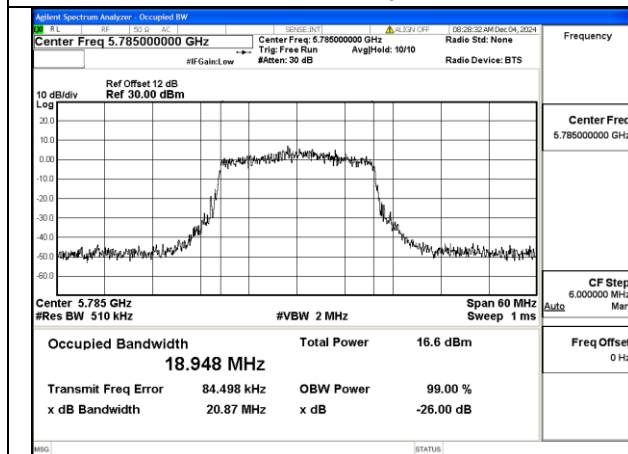
Mode:802.11ax HE20 Frequency:5785MHz  
Ant:Chain0



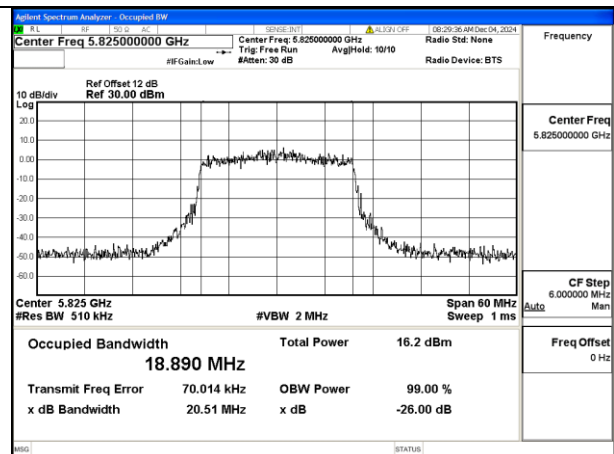
Mode:802.11ax HE20 Frequency:5825MHz  
Ant:Chain0



Mode:802.11ax HE20 Frequency:5745MHz  
Ant:Chain1



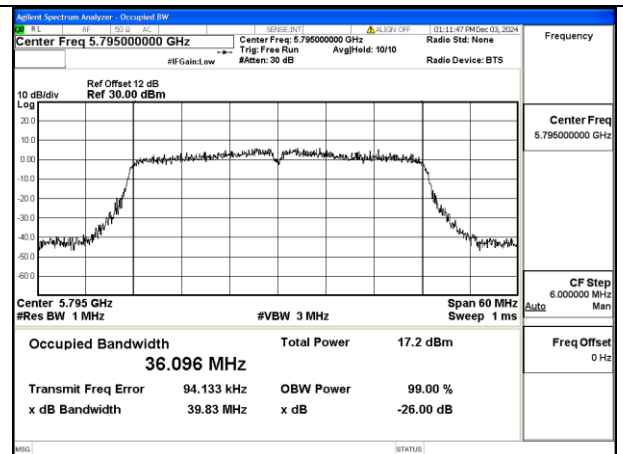
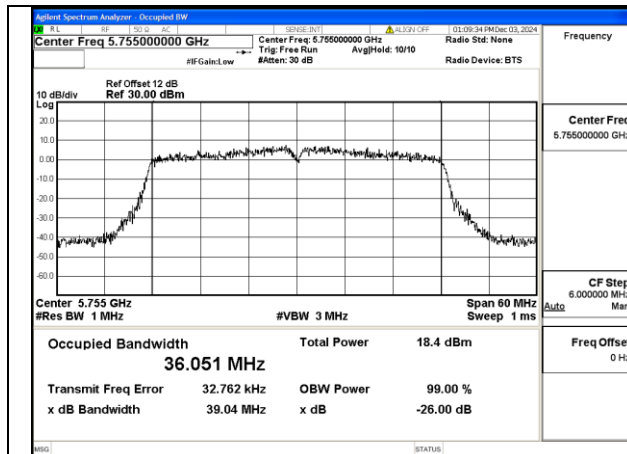
Mode:802.11ax HE20 Frequency:5785MHz  
Ant:Chain1



Mode:802.11ax HE20 Frequency:5825MHz  
Ant:Chain1

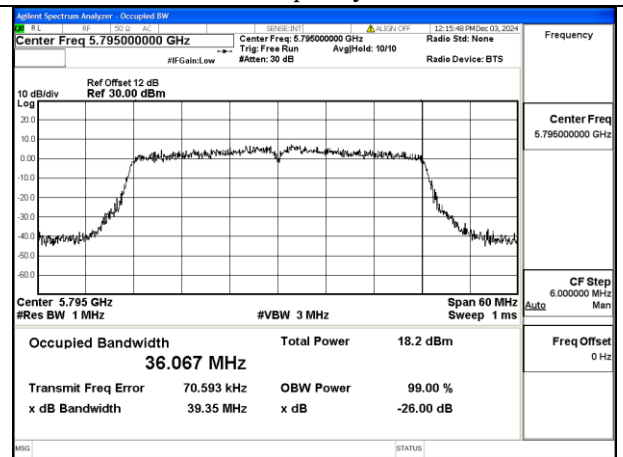
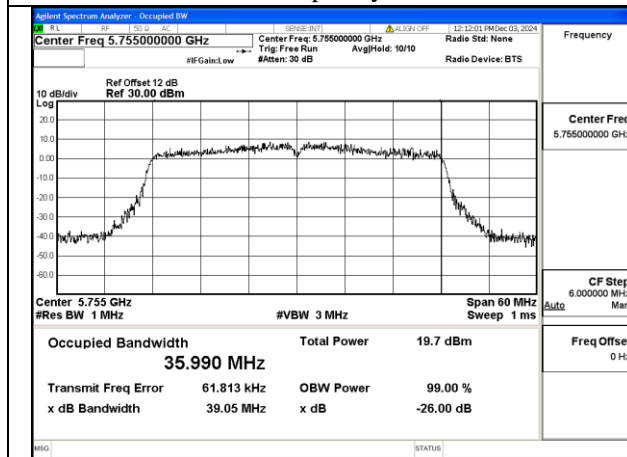


Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5755MHz Ant:Chain1

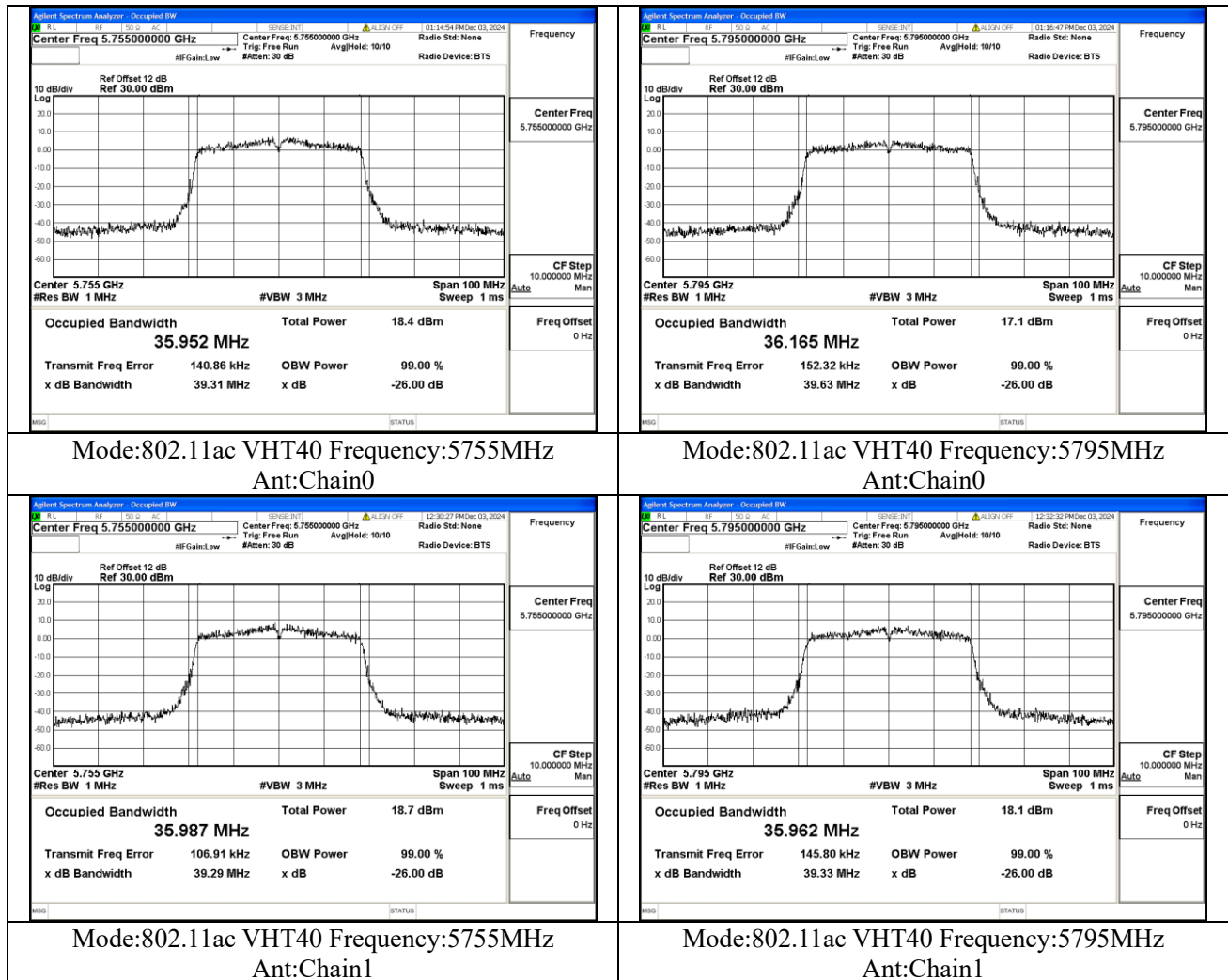
Mode:802.11n HT40 Frequency:5795MHz Ant:Chain1



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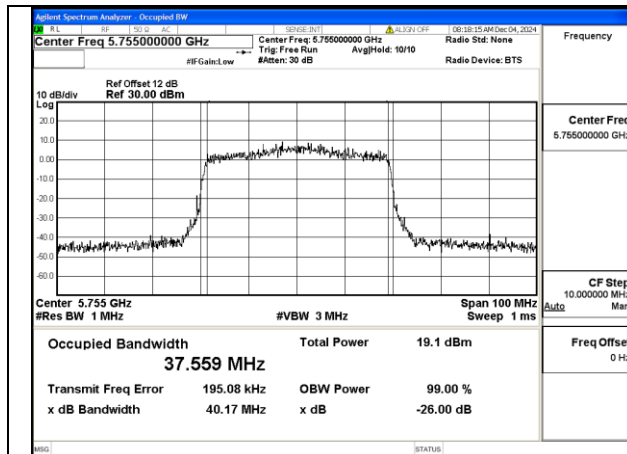
No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

Test Mode: 802.11ac VHT40

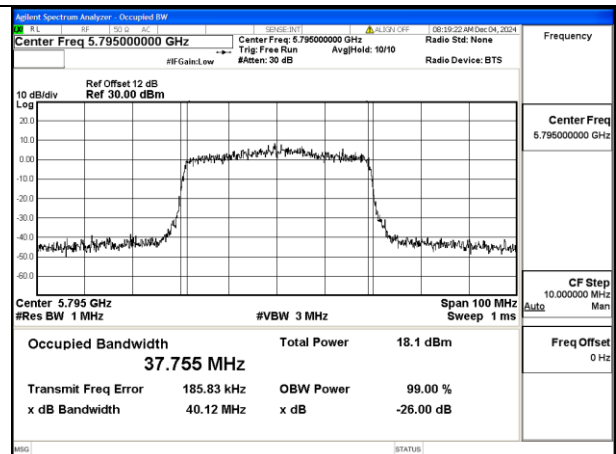




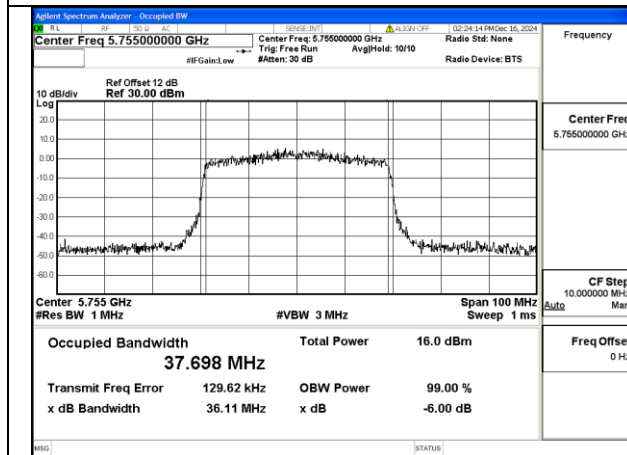
Test Mode: 802.11ax HE40



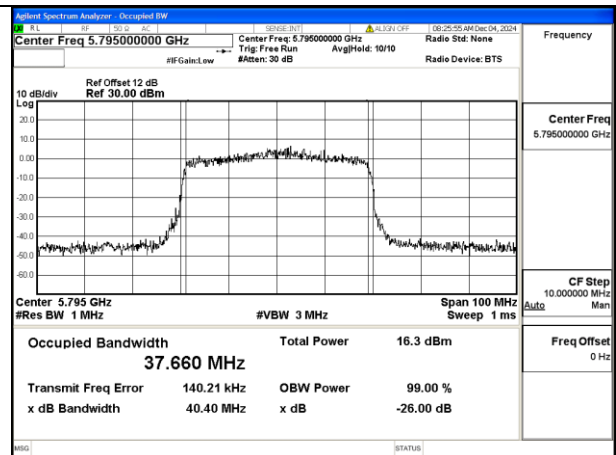
Mode:802.11ax HE40 Frequency:5755MHz  
Ant:Chain0



Mode:802.11ax HE40 Frequency:5795MHz  
Ant:Chain0



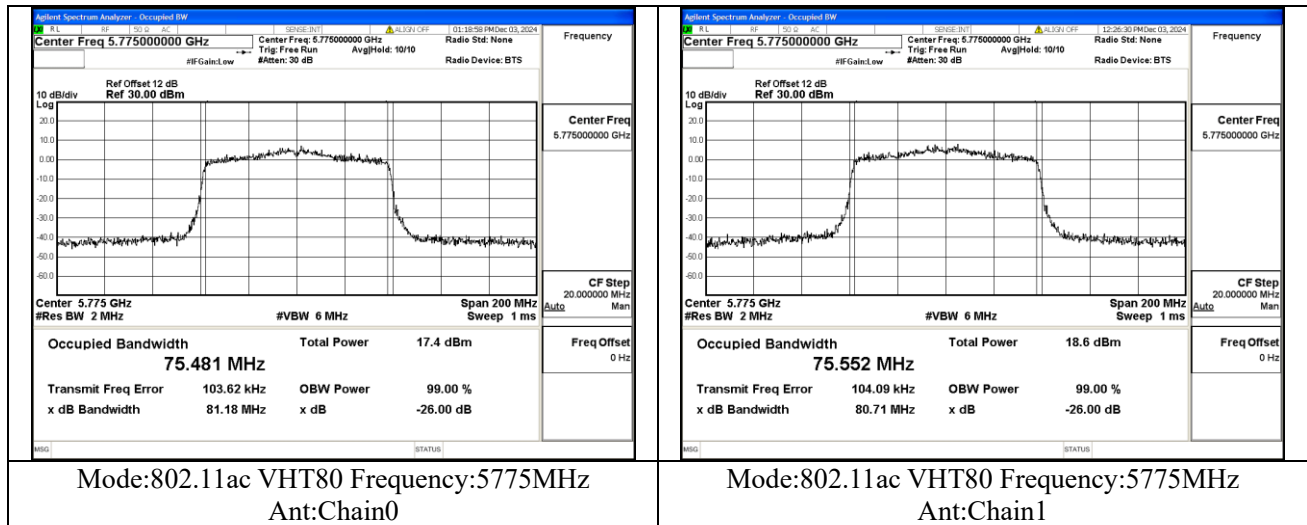
Mode:802.11ax HE40 Frequency:5755MHz  
Ant:Chain1



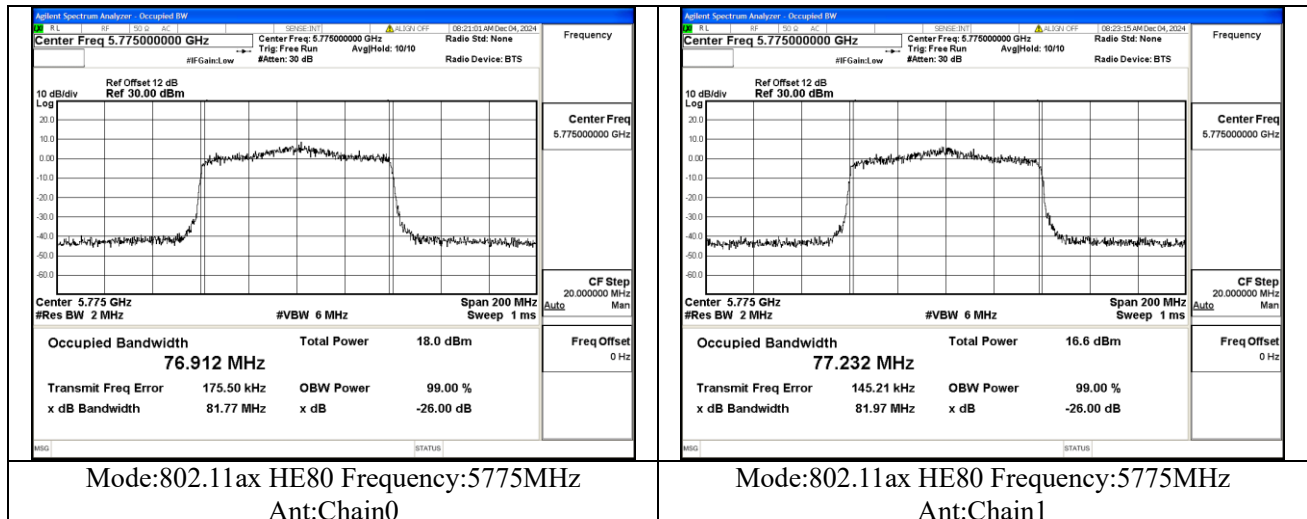
Mode:802.11ax HE40 Frequency:5795MHz  
Ant:Chain1



## Test Mode: 802.11ac VHT80



## Test Mode: 802.11ax HE80





## Occupied Bandwidth

Offset 12dB = Attenuator + Temporary antenna connector loss + Cable loss

| Test Mode      | Antenna | Occupied Bandwidth (MHz) |         |         |
|----------------|---------|--------------------------|---------|---------|
|                |         | 5745MHz                  | 5785MHz | 5825MHz |
| 802.11a        | Chain0  | 16.440                   | 16.455  | 16.378  |
| 802.11a        | Chain1  | 16.425                   | 16.405  | 16.380  |
| 802.11n HT20   | Chain0  | 17.580                   | 17.570  | 17.615  |
| 802.11n HT20   | Chain1  | 16.447                   | 17.615  | 17.582  |
| 802.11ac VHT20 | Chain0  | 17.552                   | 17.616  | 17.531  |
| 802.11ac VHT20 | Chain1  | 17.556                   | 17.590  | 17.638  |
| 802.11ax HE20  | Chain0  | 18.854                   | 18.875  | 18.864  |
| 802.11ax HE20  | Chain1  | 18.840                   | 18.929  | 18.878  |

| Test Mode      | Antenna | Occupied Bandwidth (MHz) |     |         |
|----------------|---------|--------------------------|-----|---------|
|                |         | 5755MHz                  | --- | 5795MHz |
| 802.11n HT40   | Chain0  | 36.032                   | --- | 36.096  |
| 802.11n HT40   | Chain1  | 36.015                   | --- | 36.084  |
| 802.11ac VHT40 | Chain0  | 36.088                   | --- | 36.185  |
| 802.11ac VHT40 | Chain1  | 36.088                   | --- | 35.987  |
| 802.11ax HE40  | Chain0  | 37.461                   | --- | 37.789  |
| 802.11ax HE40  | Chain1  | 37.698                   | --- | 37.710  |

| Test Mode      | Antenna | Occupied Bandwidth (MHz) |     |     |
|----------------|---------|--------------------------|-----|-----|
|                |         | 5775MHz                  | --- | --- |
| 802.11ac VHT80 | Chain0  | 75.291                   | --- | --- |
| 802.11ac VHT80 | Chain1  | 75.518                   | --- | --- |
| 802.11ax HE80  | Chain0  | 76.835                   | --- | --- |
| 802.11ax HE80  | Chain1  | 77.034                   | --- | --- |

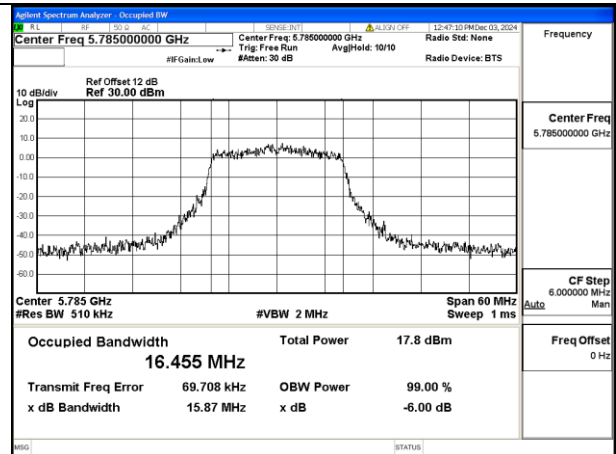
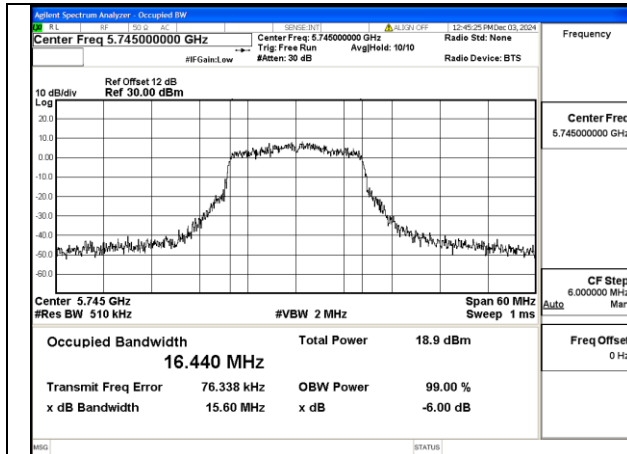




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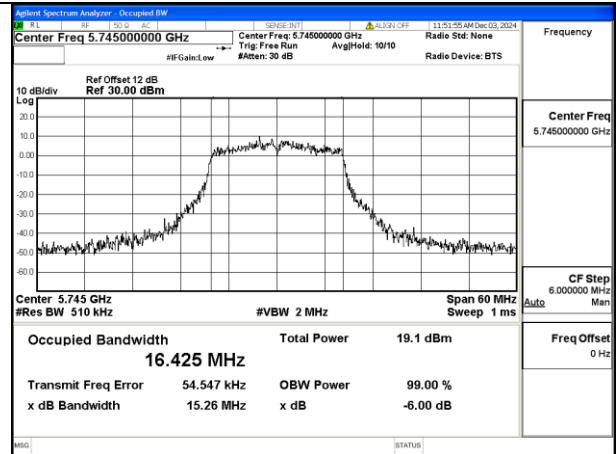
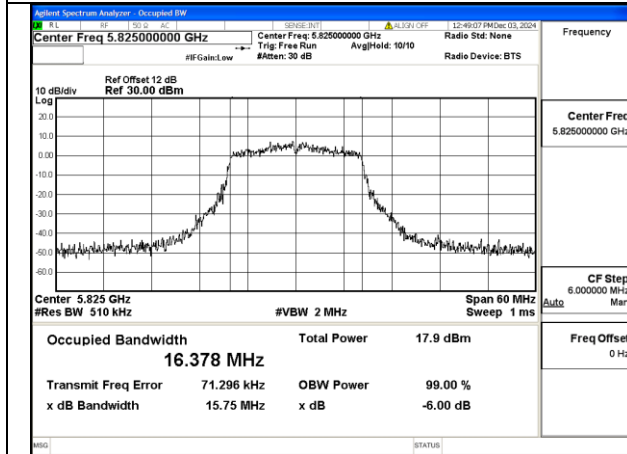
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FCC ID: 2AANY-ER815NRQ3

Test Mode: 802.11a



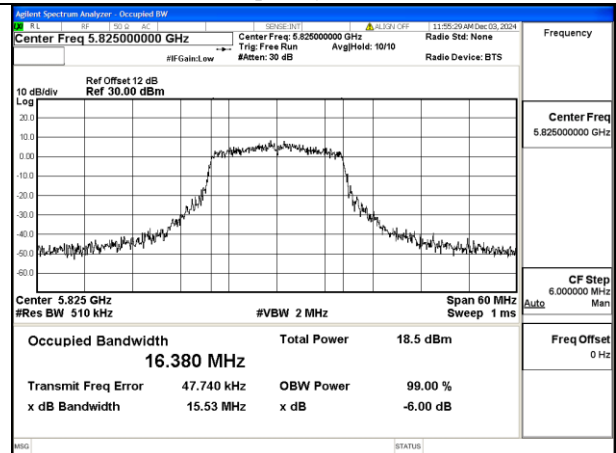
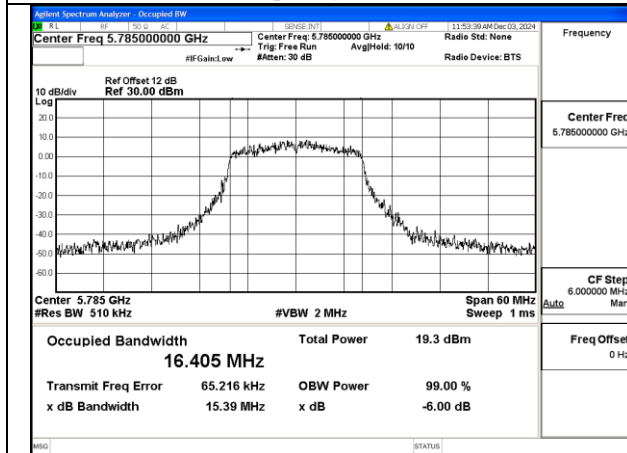
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



Mode:802.11a Frequency:5825MHz Ant:Chain0

Mode:802.11a Frequency:5745MHz Ant:Chain1



Mode:802.11a Frequency:5785MHz Ant:Chain1

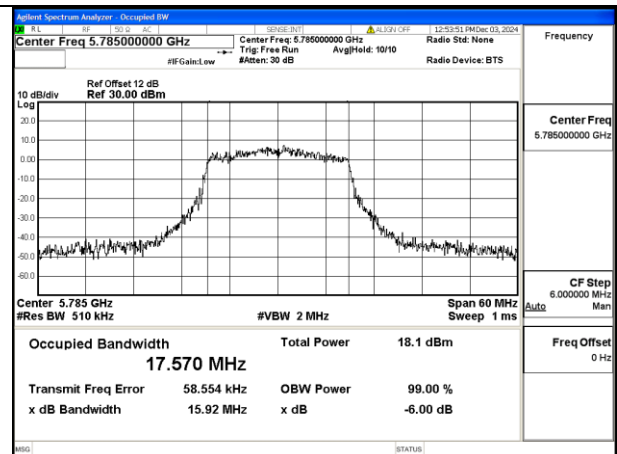
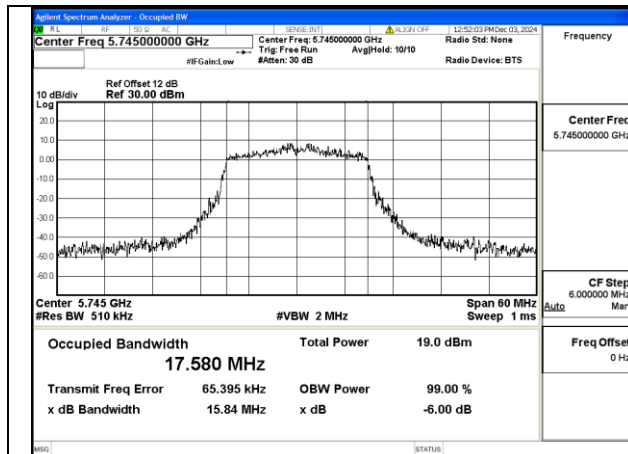
Mode:802.11a Frequency:5825MHz Ant:Chain1



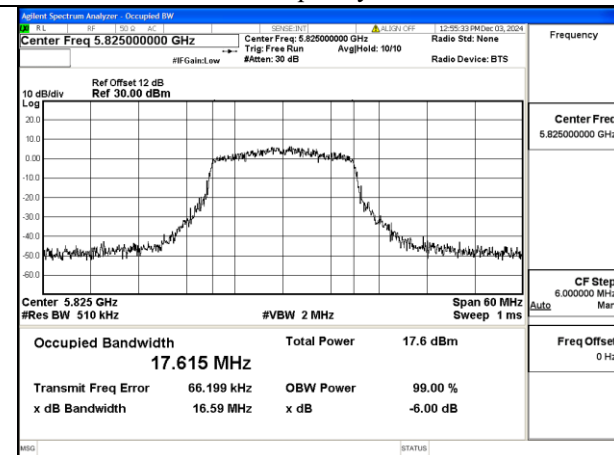
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No.: PSU-NQN2412170317RF04  
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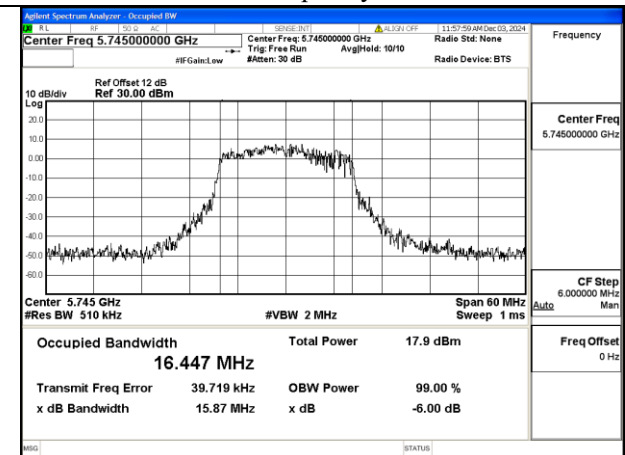
## Test Mode: 802.11n HT20



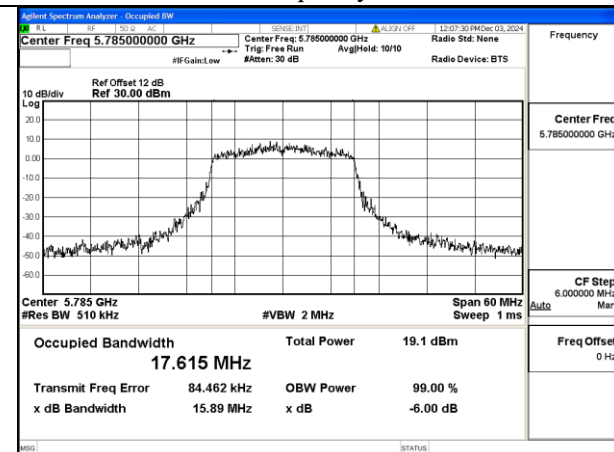
## Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0



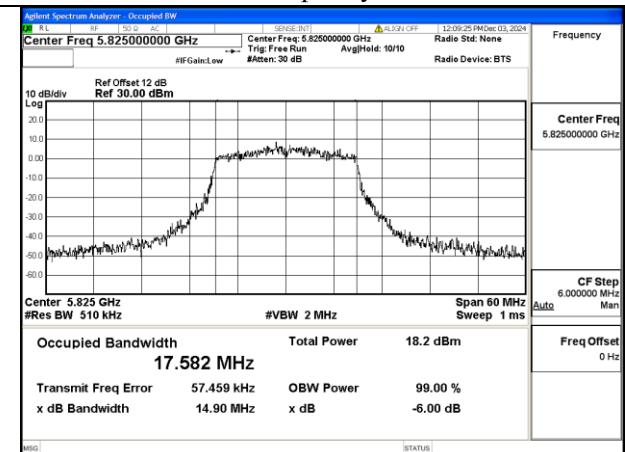
## Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



## Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0



## Mode:802.11n HT20 Frequency:5745MHz Ant:Chain1



## Mode:802.11n HT20 Frequency:5785MHz Ant:Chain1

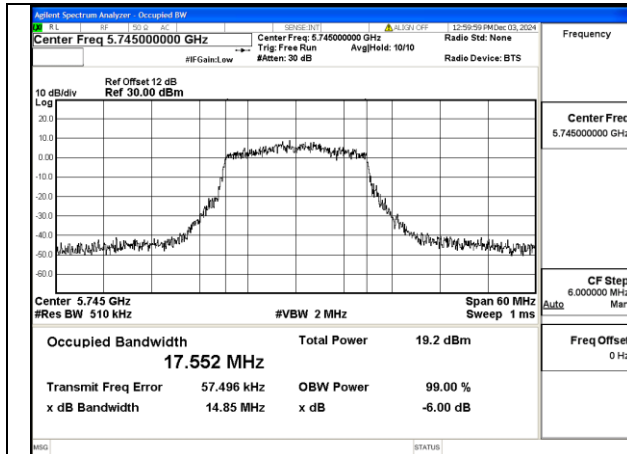
## Mode:802.11n HT20 Frequency:5825MHz Ant:Chain1



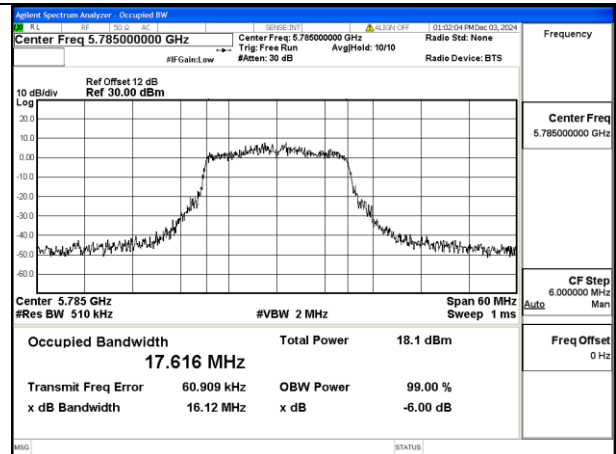
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No.: PSU-NQN2412170317RF04  
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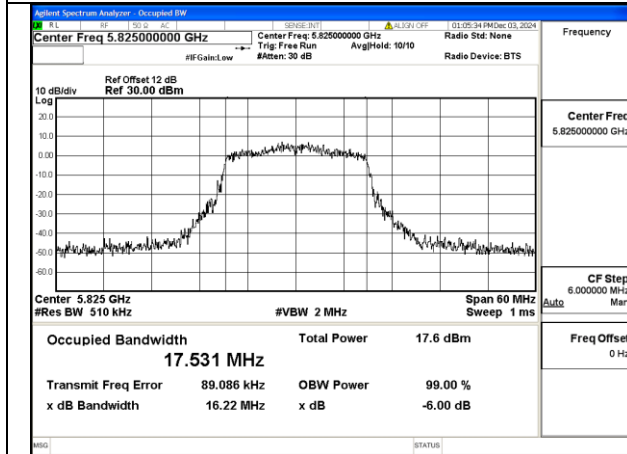
## Test Mode: 802.11ac VHT20



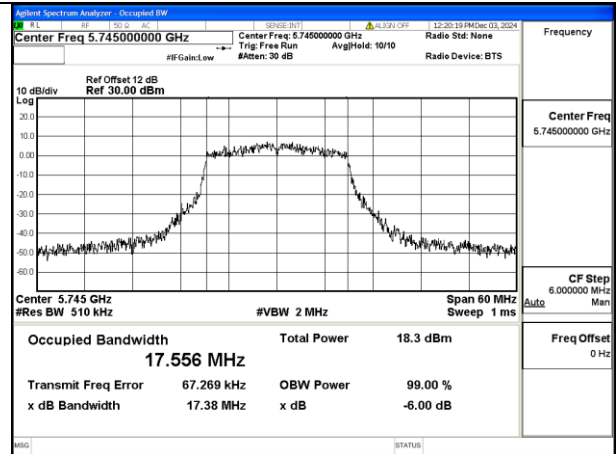
Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain0



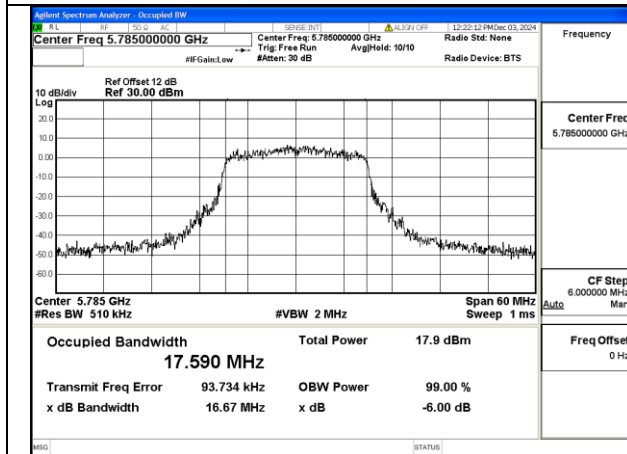
Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain0



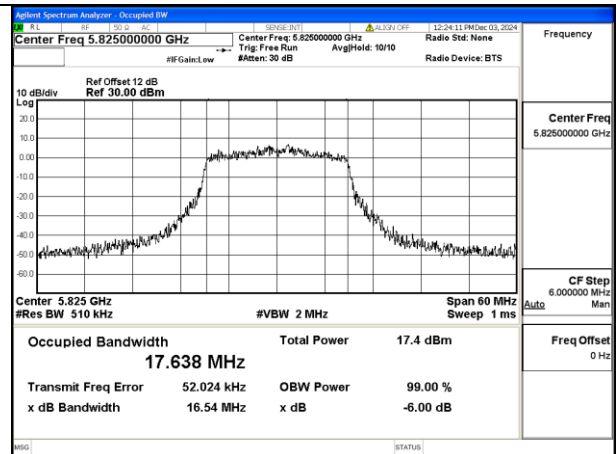
Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain1



Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain1



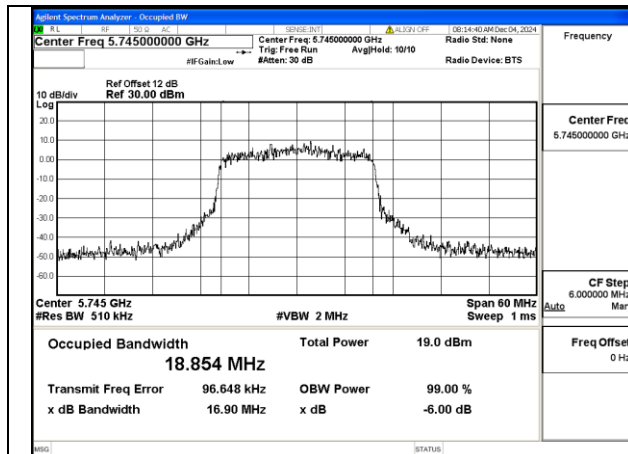
Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain1



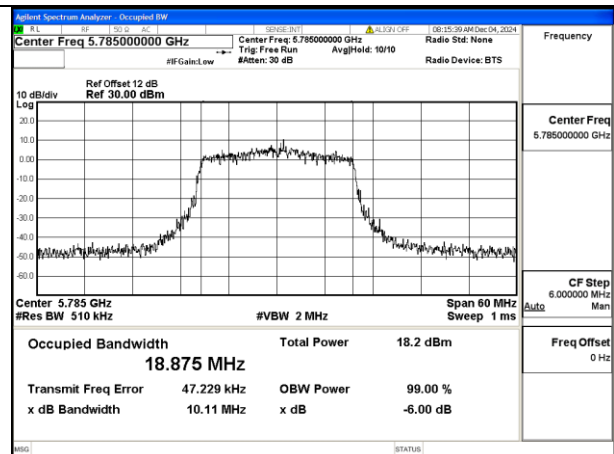
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No.: PSU-NQN2412170317RF04  
FCC ID: 2AANY-ER815NRQ3

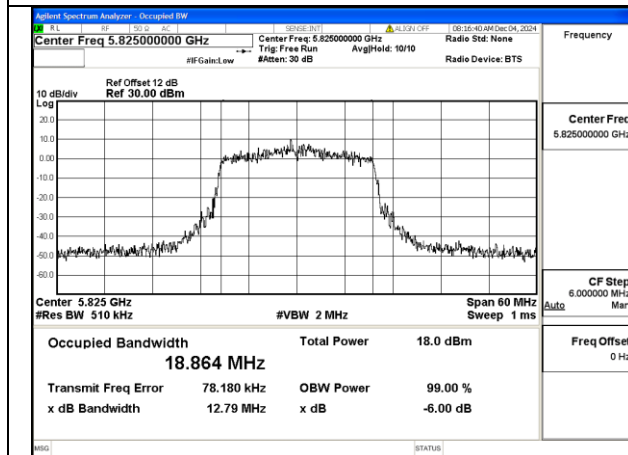
## Test Mode: 802.11ax HE20



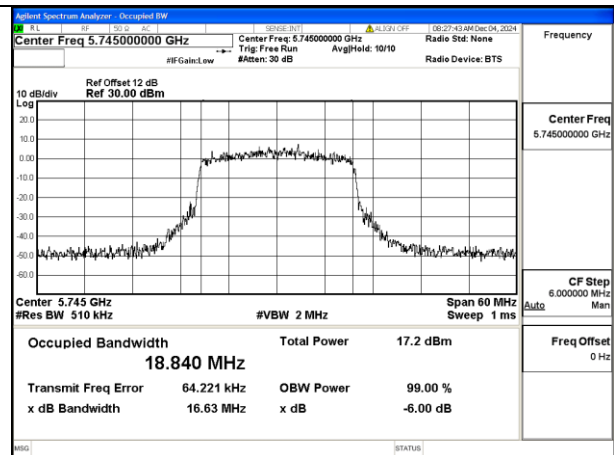
Mode:802.11ax HE20 Frequency:5745MHz  
Ant:Chain0



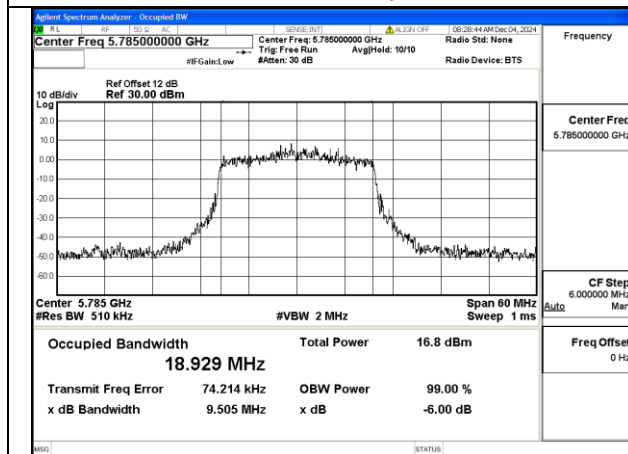
Mode:802.11ax HE20 Frequency:5785MHz  
Ant:Chain0



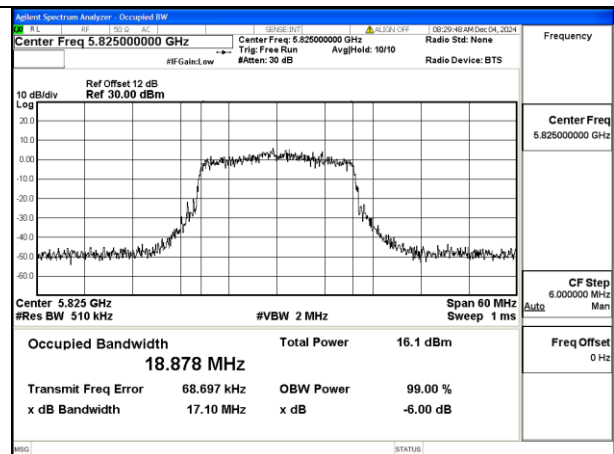
Mode:802.11ax HE20 Frequency:5825MHz  
Ant:Chain0



Mode:802.11ax HE20 Frequency:5745MHz  
Ant:Chain1



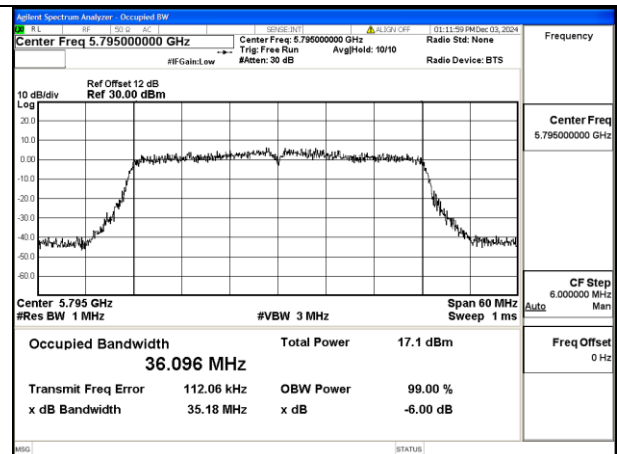
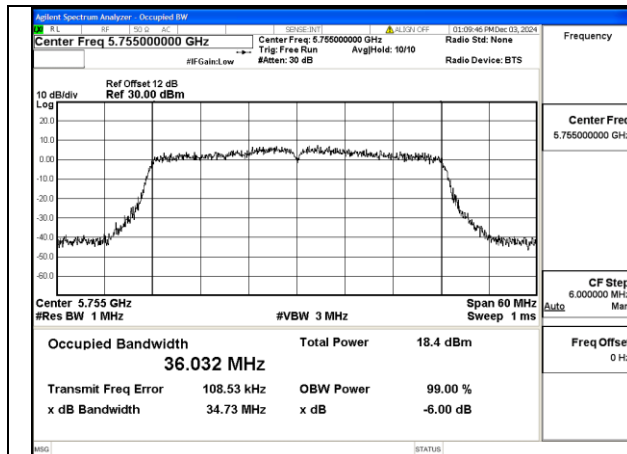
Mode:802.11ax HE20 Frequency:5785MHz  
Ant:Chain1



Mode:802.11ax HE20 Frequency:5825MHz  
Ant:Chain1

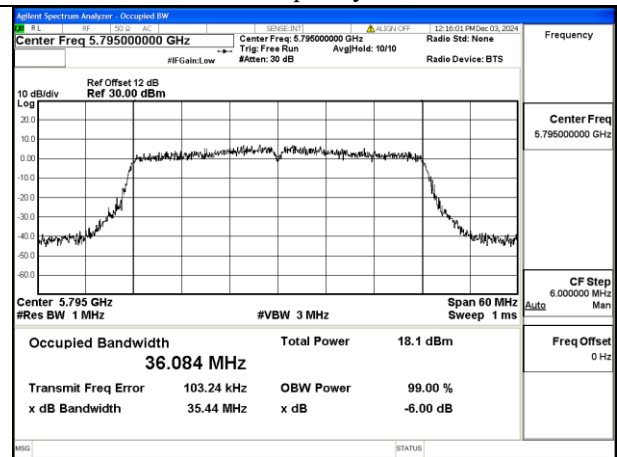
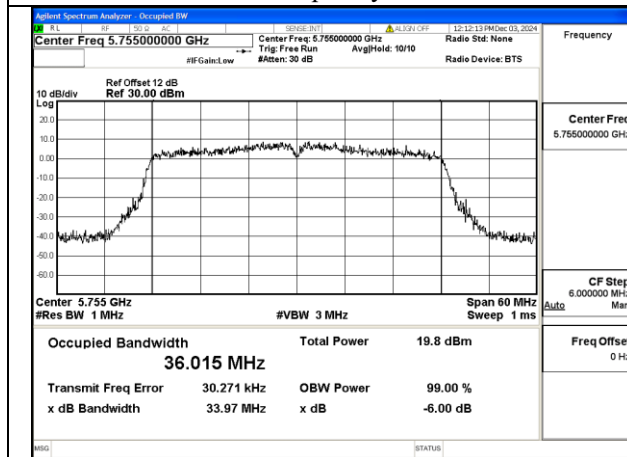


Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5755MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5795MHz Ant:Chain1