



### 5.3. Maximum Conducted Output Power

|                    |              |                                |              |                    |
|--------------------|--------------|--------------------------------|--------------|--------------------|
| Model Number       |              | DWA-181                        |              |                    |
| Test Item          |              | Maximum Conducted Output Power |              |                    |
| Test Mode          |              | Mode 2: IEEE 802.11a Link Mode |              |                    |
| Date of Test       |              | 07/29/2016                     |              |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                          |              | FCC Limit<br>(dBm) |
|                    |              | Max. Outup Power               |              |                    |
|                    |              | (dBm)                          | (W)          |                    |
| 5180               | 6 M          | 14.70                          | 0.030        | ≤ 24               |
| 5200               |              | <b>15.08</b>                   | <b>0.032</b> |                    |
| 5220               |              | 14.96                          | 0.031        |                    |
| 5240               |              | 14.66                          | 0.029        |                    |
| 5745               |              | 13.67                          | 0.023        | ≤ 30               |
| 5765               |              | <b>14.32</b>                   | <b>0.027</b> |                    |
| 5785               |              | 14.21                          | 0.026        |                    |
| 5805               |              | 13.99                          | 0.025        |                    |
| 5825               | 54 M         | 14.27                          | 0.027        | ≤ 24               |
| 5180               |              | 14.65                          | 0.029        |                    |
| 5200               |              | 15.04                          | 0.032        |                    |
| 5220               |              | 14.91                          | 0.031        |                    |
| 5240               |              | 14.63                          | 0.029        | ≤ 30               |
| 5745               |              | 13.63                          | 0.023        |                    |
| 5765               |              | 14.28                          | 0.027        |                    |
| 5785               |              | 14.17                          | 0.026        |                    |
| 5805               |              | 13.95                          | 0.025        |                    |
| 5825               |              | 14.23                          | 0.026        |                    |

Note: The relevant measured result has the offset with cable loss already.



| Model Number       |              | DWA-181                                |       |       |       |              |              |                    |
|--------------------|--------------|----------------------------------------|-------|-------|-------|--------------|--------------|--------------------|
| Test Item          |              | Maximum Conducted Output Power         |       |       |       |              |              |                    |
| Test Mode          |              | Mode 3: IEEE 802.11ac 20 MHz Link Mode |       |       |       |              |              |                    |
| Date of Test       |              | 07/29/2016                             |       |       |       |              |              |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                                  |       | ANT-1 |       | ANT-0+1      |              | FCC Limit<br>(dBm) |
|                    |              | Max. Output Power                      |       |       |       |              |              |                    |
|                    |              | (dBm)                                  | (W)   | (dBm) | (W)   | (dBm)        | (W)          |                    |
| 5180               | 13 M         | 13.58                                  | 0.023 | 13.77 | 0.024 | 16.69        | 0.047        | ≤ 24               |
| 5200               |              | 13.53                                  | 0.023 | 15.43 | 0.035 | <b>17.59</b> | <b>0.057</b> |                    |
| 5220               |              | 13.75                                  | 0.024 | 15.27 | 0.034 | 17.59        | 0.057        |                    |
| 5240               |              | 13.65                                  | 0.023 | 15.20 | 0.033 | 17.50        | 0.056        |                    |
| 5745               |              | 14.24                                  | 0.027 | 13.55 | 0.023 | 16.92        | 0.049        | ≤ 30               |
| 5765               |              | 14.19                                  | 0.026 | 13.94 | 0.025 | <b>17.08</b> | <b>0.051</b> |                    |
| 5785               |              | 14.12                                  | 0.026 | 13.87 | 0.024 | 17.01        | 0.050        |                    |
| 5805               |              | 14.30                                  | 0.027 | 13.79 | 0.024 | 17.06        | 0.051        |                    |
| 5825               |              | 14.03                                  | 0.025 | 13.74 | 0.024 | 16.90        | 0.049        |                    |
| 5180               | 156 M        | 13.56                                  | 0.023 | 13.72 | 0.024 | 16.65        | 0.046        | ≤ 24               |
| 5200               |              | 13.50                                  | 0.022 | 15.38 | 0.035 | 17.55        | 0.057        |                    |
| 5220               |              | 13.71                                  | 0.023 | 15.23 | 0.033 | 17.55        | 0.057        |                    |
| 5240               |              | 13.63                                  | 0.023 | 15.18 | 0.033 | 17.48        | 0.056        |                    |
| 5745               |              | 14.21                                  | 0.026 | 13.52 | 0.022 | 16.89        | 0.049        | ≤ 30               |
| 5765               |              | 14.16                                  | 0.026 | 13.92 | 0.025 | 17.05        | 0.051        |                    |
| 5785               |              | 14.10                                  | 0.026 | 13.82 | 0.024 | 16.97        | 0.050        |                    |
| 5805               |              | 14.26                                  | 0.027 | 13.77 | 0.024 | 17.03        | 0.051        |                    |
| 5825               |              | 13.98                                  | 0.025 | 13.69 | 0.023 | 16.85        | 0.048        |                    |

Note: The relevant measured result has the offset with cable loss already.



| Model Number       |              | DWA-181                                |       |       |       |              |              |                    |
|--------------------|--------------|----------------------------------------|-------|-------|-------|--------------|--------------|--------------------|
| Test Item          |              | Maximum Conducted Output Power         |       |       |       |              |              |                    |
| Test Mode          |              | Mode 4: IEEE 802.11ac 40 MHz Link Mode |       |       |       |              |              |                    |
| Date of Test       |              | 07/29/2016                             |       |       |       |              |              |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                                  |       | ANT-1 |       | ANT-0+1      |              | FCC Limit<br>(dBm) |
|                    |              | Max. Output Power                      |       |       |       |              |              |                    |
|                    |              | (dBm)                                  | (W)   | (dBm) | (W)   | (dBm)        | (W)          |                    |
| 5190               | 27 M         | 13.39                                  | 0.022 | 13.48 | 0.022 | 16.45        | 0.044        | ≤ 24               |
| 5230               |              | 14.22                                  | 0.026 | 14.11 | 0.026 | <b>17.18</b> | <b>0.052</b> |                    |
| 5755               |              | 14.23                                  | 0.026 | 14.33 | 0.027 | <b>17.29</b> | <b>0.054</b> | ≤ 30               |
| 5795               |              | 14.34                                  | 0.027 | 14.22 | 0.026 | 17.29        | 0.054        |                    |
| 5190               | 360 M        | 13.33                                  | 0.022 | 13.46 | 0.022 | 16.41        | 0.044        | ≤ 24               |
| 5230               |              | 14.20                                  | 0.026 | 14.06 | 0.025 | 17.14        | 0.052        |                    |
| 5755               |              | 14.20                                  | 0.026 | 14.28 | 0.027 | 17.25        | 0.053        | ≤ 30               |
| 5755               |              | 14.30                                  | 0.027 | 14.19 | 0.026 | 17.26        | 0.053        |                    |

| Model Number       |              | DWA-181                                |       |       |       |              |              |                    |
|--------------------|--------------|----------------------------------------|-------|-------|-------|--------------|--------------|--------------------|
| Test Item          |              | Maximum Conducted Output Power         |       |       |       |              |              |                    |
| Test Mode          |              | Mode 5: IEEE 802.11ac 80 MHz Link Mode |       |       |       |              |              |                    |
| Date of Test       |              | 07/29/2016                             |       |       |       |              |              |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                                  |       | ANT-1 |       | ANT-0+1      |              | FCC Limit<br>(dBm) |
|                    |              | Max. Output Power                      |       |       |       |              |              |                    |
|                    |              | (dBm)                                  | (W)   | (dBm) | (W)   | (dBm)        | (W)          |                    |
| 5210               | 58.6 M       | 13.06                                  | 0.020 | 13.15 | 0.021 | <b>16.12</b> | <b>0.041</b> | ≤ 24               |
| 5775               |              | 12.68                                  | 0.019 | 13.33 | 0.022 | <b>16.03</b> | <b>0.040</b> | ≤ 30               |
| 5210               | 780 M        | 13.04                                  | 0.020 | 13.10 | 0.020 | 16.08        | 0.041        | ≤ 24               |
| 5775               |              | 12.67                                  | 0.018 | 13.30 | 0.021 | 16.01        | 0.040        | ≤ 30               |

Note: The relevant measured result has the offset with cable loss already.



| Model Number       |              | DWA-181                                |       |       |       |              |              |                    |
|--------------------|--------------|----------------------------------------|-------|-------|-------|--------------|--------------|--------------------|
| Test Item          |              | Maximum Conducted Output Power         |       |       |       |              |              |                    |
| Test Mode          |              | Mode 3: IEEE 802.11ac 20 MHz Link Mode |       |       |       |              |              |                    |
| Date of Test       |              | 07/29/2016                             |       |       |       |              |              |                    |
| Beamforming on     |              |                                        |       |       |       |              |              |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                                  |       | ANT-1 |       | ANT-0+1      |              | FCC Limit<br>(dBm) |
|                    |              | Max. Output Power                      |       |       |       |              |              |                    |
|                    |              | (dBm)                                  | (W)   | (dBm) | (W)   | (dBm)        | (W)          |                    |
| 5180               | 13 M         | 13.22                                  | 0.021 | 13.17 | 0.021 | 16.21        | 0.042        | ≤ 24               |
| 5200               |              | 14.65                                  | 0.029 | 14.21 | 0.026 | <b>17.45</b> | <b>0.056</b> |                    |
| 5220               |              | 14.14                                  | 0.026 | 14.13 | 0.026 | 17.15        | 0.052        |                    |
| 5240               |              | 14.15                                  | 0.026 | 14.12 | 0.026 | 17.15        | 0.052        |                    |
| 5745               |              | 14.20                                  | 0.026 | 13.96 | 0.025 | 17.09        | 0.051        | ≤ 30               |
| 5765               |              | 14.36                                  | 0.027 | 14.22 | 0.026 | 17.30        | 0.054        |                    |
| 5785               |              | 14.39                                  | 0.027 | 14.26 | 0.027 | <b>17.34</b> | <b>0.054</b> |                    |
| 5805               |              | 14.43                                  | 0.028 | 13.57 | 0.023 | 17.03        | 0.050        |                    |
| 5825               | 14.01        | 0.025                                  | 12.62 | 0.018 | 16.38 | 0.043        |              |                    |
| 5180               | 156 M        | 13.20                                  | 0.021 | 13.13 | 0.021 | 16.18        | 0.041        | ≤ 24               |
| 5200               |              | 14.60                                  | 0.029 | 14.14 | 0.026 | 17.39        | 0.055        |                    |
| 5220               |              | 14.10                                  | 0.026 | 14.08 | 0.026 | 17.10        | 0.051        |                    |
| 5240               |              | 14.09                                  | 0.026 | 14.07 | 0.026 | 17.09        | 0.051        |                    |
| 5745               |              | 14.17                                  | 0.026 | 13.94 | 0.025 | 17.07        | 0.051        | ≤ 30               |
| 5765               |              | 14.33                                  | 0.027 | 14.13 | 0.026 | 17.24        | 0.053        |                    |
| 5785               |              | 14.34                                  | 0.027 | 14.21 | 0.026 | 17.29        | 0.054        |                    |
| 5805               |              | 14.38                                  | 0.027 | 13.51 | 0.022 | 16.98        | 0.050        |                    |
| 5825               | 13.99        | 0.025                                  | 12.60 | 0.018 | 16.36 | 0.043        |              |                    |

Note: The relevant measured result has the offset with cable loss already.



| Model Number       |              | DWA-181                                |       |       |       |              |              |                    |
|--------------------|--------------|----------------------------------------|-------|-------|-------|--------------|--------------|--------------------|
| Test Item          |              | Maximum Conducted Output Power         |       |       |       |              |              |                    |
| Test Mode          |              | Mode 4: IEEE 802.11ac 40 MHz Link Mode |       |       |       |              |              |                    |
| Date of Test       |              | 07/29/2016                             |       |       |       |              |              |                    |
| Beamforming on     |              |                                        |       |       |       |              |              |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                                  |       | ANT-1 |       | ANT-0+1      |              | FCC Limit<br>(dBm) |
|                    |              | Max. Output Power                      |       |       |       |              |              |                    |
|                    |              | (dBm)                                  | (W)   | (dBm) | (W)   | (dBm)        | (W)          |                    |
| 5190               | 27 M         | 11.82                                  | 0.015 | 11.03 | 0.013 | 14.45        | 0.028        | ≤ 24               |
| 5230               |              | 14.24                                  | 0.027 | 13.61 | 0.023 | <b>16.95</b> | <b>0.050</b> |                    |
| 5755               |              | 14.01                                  | 0.025 | 13.91 | 0.025 | <b>16.97</b> | <b>0.050</b> | ≤ 30               |
| 5795               |              | 14.04                                  | 0.025 | 13.60 | 0.023 | 16.84        | 0.048        |                    |
| 5190               | 360 M        | 11.81                                  | 0.015 | 11.00 | 0.013 | 14.43        | 0.028        | ≤ 24               |
| 5230               |              | 14.20                                  | 0.026 | 13.57 | 0.023 | 16.91        | 0.049        |                    |
| 5755               |              | 13.99                                  | 0.025 | 13.88 | 0.024 | 16.95        | 0.049        | ≤ 30               |
| 5755               |              | 14.00                                  | 0.025 | 13.52 | 0.022 | 16.78        | 0.048        |                    |

| Model Number       |              | DWA-181                                |       |       |       |         |       |                    |
|--------------------|--------------|----------------------------------------|-------|-------|-------|---------|-------|--------------------|
| Test Item          |              | Maximum Conducted Output Power         |       |       |       |         |       |                    |
| Test Mode          |              | Mode 5: IEEE 802.11ac 80 MHz Link Mode |       |       |       |         |       |                    |
| Date of Test       |              | 07/29/2016                             |       |       |       |         |       |                    |
| Beamforming on     |              |                                        |       |       |       |         |       |                    |
| Frequency<br>(MHz) | Data<br>Rate | ANT-0                                  |       | ANT-1 |       | ANT-0+1 |       | FCC Limit<br>(dBm) |
|                    |              | Max. Output Power                      |       |       |       |         |       |                    |
|                    |              | (dBm)                                  | (W)   | (dBm) | (W)   | (dBm)   | (W)   |                    |
| 5210               | 58.6 M       | 10.25                                  | 0.011 | 10.18 | 0.010 | 13.23   | 0.021 | ≤ 24               |
| 5775               |              | 14.24                                  | 0.027 | 13.53 | 0.023 | 16.91   | 0.049 | ≤ 30               |
| 5210               | 780 M        | 10.23                                  | 0.011 | 10.10 | 0.010 | 13.18   | 0.021 | ≤ 24               |
| 5775               |              | 14.18                                  | 0.026 | 13.50 | 0.022 | 16.86   | 0.049 | ≤ 30               |

Note: The relevant measured result has the offset with cable loss already.

#### 5.4. 26 dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

|                 |                                |
|-----------------|--------------------------------|
| Model Number    | DWA-181                        |
| Test Item       | 26 dB RF Bandwidth Measurement |
| Test Mode       | Mode 2: IEEE 802.11a Link Mode |
| Date of Test    | 09/04/2016                     |
| Frequency (MHz) | ANT-0                          |
|                 | 26 dB Bandwidth (MHz)          |
| 5180            | 24.180                         |
| 5200            | 23.300                         |
| 5240            | 24.510                         |

|                 |                                        |                       |
|-----------------|----------------------------------------|-----------------------|
| Model Number    | DWA-181                                |                       |
| Test Item       | 26 dB RF Bandwidth Measurement         |                       |
| Test Mode       | Mode 3: IEEE 802.11ac 20 MHz Link Mode |                       |
| Date of Test    | 09/04/2016                             |                       |
| Frequency (MHz) | ANT-0                                  | Ant-1                 |
|                 | 26 dB Bandwidth (MHz)                  | 26 dB Bandwidth (MHz) |
| 5180            | 23.090                                 | 22.960                |
| 5200            | 24.860                                 | 24.730                |
| 5240            | 24.860                                 | 25.000                |

|                 |                                        |                       |
|-----------------|----------------------------------------|-----------------------|
| Model Number    | DWA-181                                |                       |
| Test Item       | 26 dB RF Bandwidth Measurement         |                       |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz Link Mode |                       |
| Date of Test    | 09/04/2016                             |                       |
| Frequency (MHz) | ANT-0                                  | Ant-1                 |
|                 | 26 dB Bandwidth (MHz)                  | 26 dB Bandwidth (MHz) |
| 5190            | 46.340                                 | 46.140                |
| 5230            | 49.860                                 | 49.870                |

Note: The 99 % occupied bandwidth not crossed 5250 MHz.



|                    |                                        |                          |
|--------------------|----------------------------------------|--------------------------|
| Model Number       | DWA-181                                |                          |
| Test Item          | 26 dB RF Bandwidth Measurement         |                          |
| Test Mode          | Mode 5: IEEE 802.11ac 80 MHz Link Mode |                          |
| Date of Test       | 09/04/2016                             |                          |
| Frequency<br>(MHz) | ANT-0                                  | Ant-1                    |
|                    | 26 dB Bandwidth<br>(MHz)               | 26 dB Bandwidth<br>(MHz) |
| 5210               | 84.850                                 | 79.870                   |

Note: The 99 % occupied bandwidth not crossed 5250 MHz.



|                    |                                        |                          |
|--------------------|----------------------------------------|--------------------------|
| Model Number       | DWA-181                                |                          |
| Test Item          | 26 dB RF Bandwidth Measurement         |                          |
| Test Mode          | Mode 3: IEEE 802.11ac 20 MHz Link Mode |                          |
| Date of Test       | 10/10/2016                             |                          |
| Beamforming on     |                                        |                          |
| Frequency<br>(MHz) | ANT-0                                  | Ant-1                    |
|                    | 26 dB Bandwidth<br>(MHz)               | 26 dB Bandwidth<br>(MHz) |
| 5180               | 24.950                                 | 24.340                   |
| 5200               | 24.220                                 | 24.100                   |
| 5240               | 25.000                                 | 24.670                   |

|                 |                                        |                       |
|-----------------|----------------------------------------|-----------------------|
| Model Number    | DWA-181                                |                       |
| Test Item       | 26 dB RF Bandwidth Measurement         |                       |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz Link Mode |                       |
| Date of Test    | 10/10/2016                             |                       |
| Beamforming on  |                                        |                       |
| Frequency (MHz) | ANT-0                                  | Ant-1                 |
|                 | 26 dB Bandwidth (MHz)                  | 26 dB Bandwidth (MHz) |
| 5190            | 46.720                                 | 43.220                |
| 5230            | 49.210                                 | 50.000                |

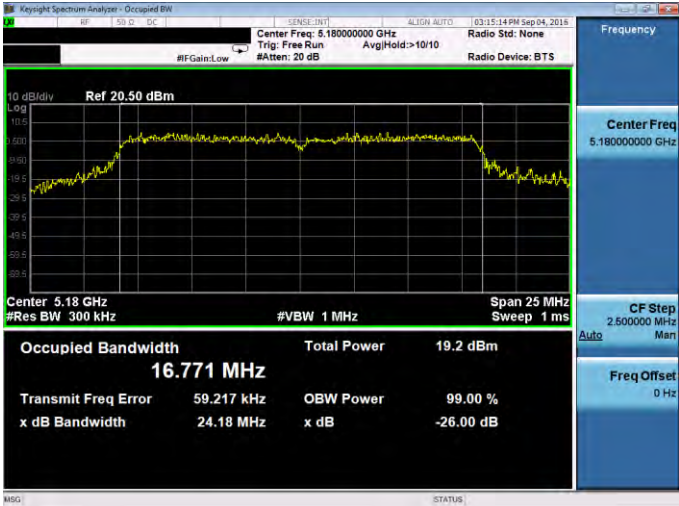
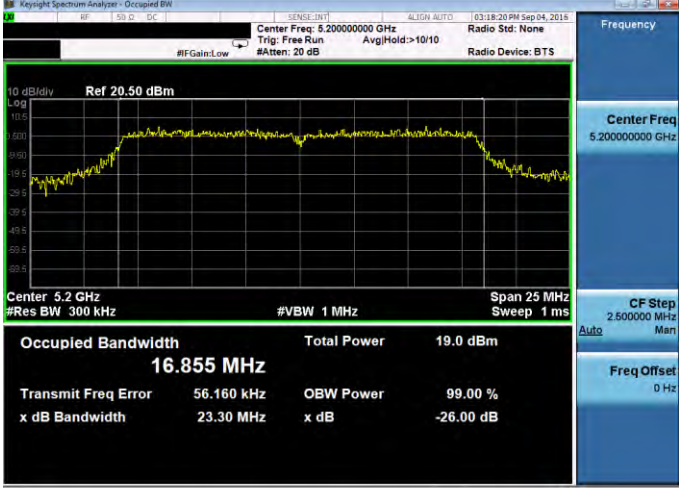
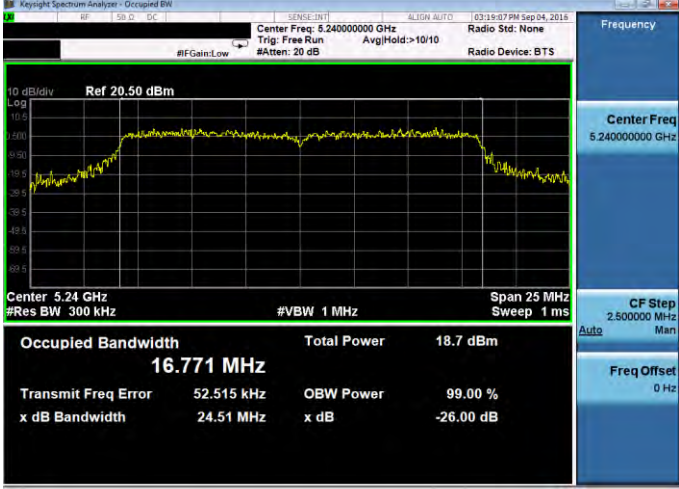
|                    |                                        |                          |
|--------------------|----------------------------------------|--------------------------|
| Model Number       | DWA-181                                |                          |
| Test Item          | 26 dB RF Bandwidth Measurement         |                          |
| Test Mode          | Mode 5: IEEE 802.11ac 80 MHz Link Mode |                          |
| Date of Test       | 10/10/2016                             |                          |
| Beamforming on     |                                        |                          |
| Frequency<br>(MHz) | ANT-0                                  | Ant-1                    |
|                    | 26 dB Bandwidth<br>(MHz)               | 26 dB Bandwidth<br>(MHz) |
| 5210               | 80.660                                 | 79.310                   |

Note: The 99 % occupied bandwidth not crossed 5250 MHz.

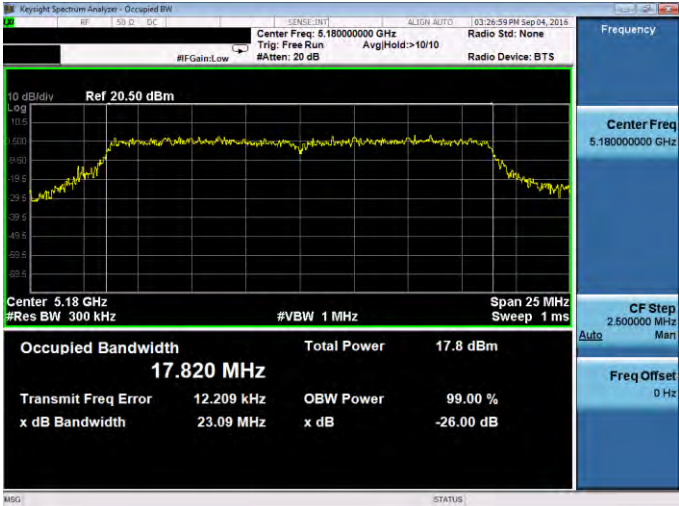
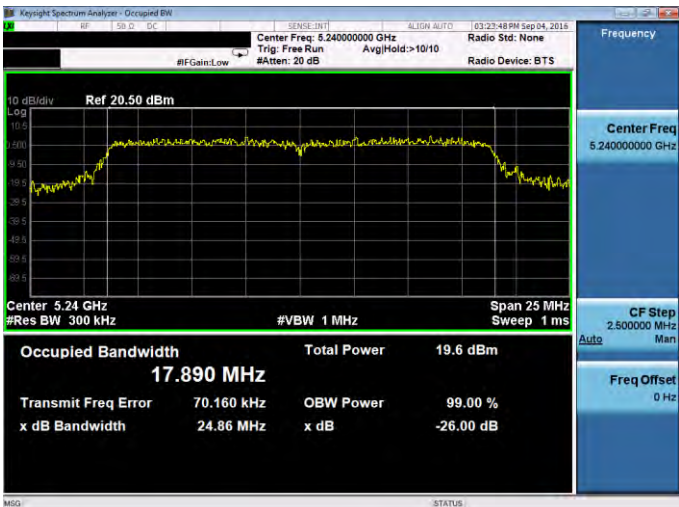




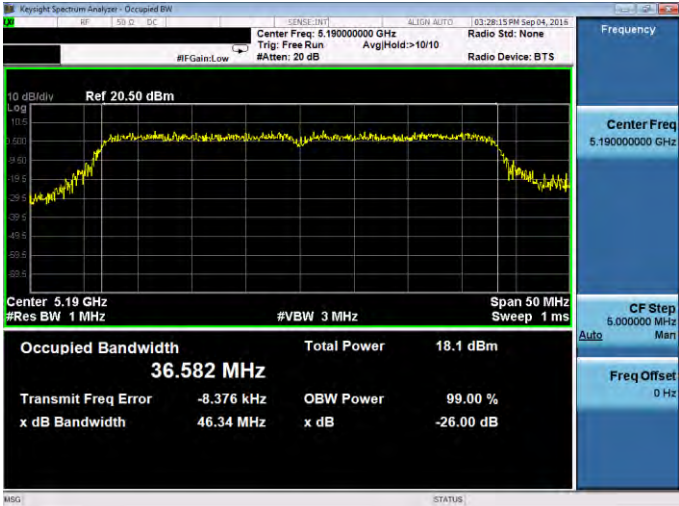
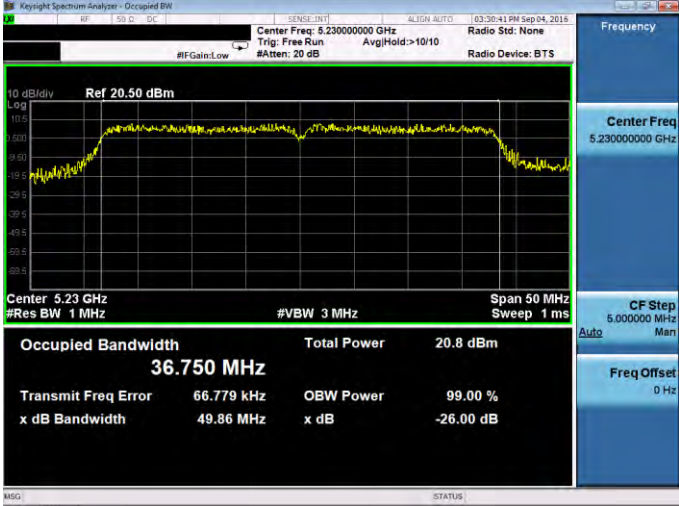
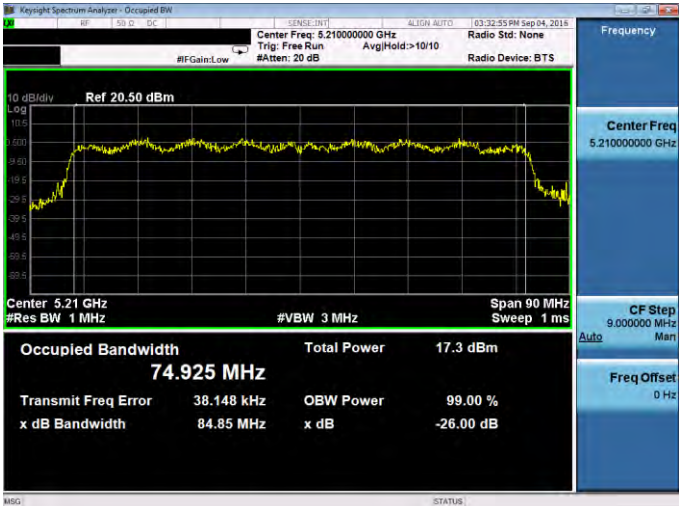
■ Test Graphs

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 2: IEEE 802.11a Link Mode_ ANT-0 |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.18 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 16.771 MHz<br/>Total Power 19.2 dBm<br/>Transmit Freq Error 59.217 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.18 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5200 MHz                              |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.2 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 16.855 MHz<br/>Total Power 19.0 dBm<br/>Transmit Freq Error 56.160 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 23.30 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5240 MHz                              |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.24 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 16.771 MHz<br/>Total Power 18.7 dBm<br/>Transmit Freq Error 52.515 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.51 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p> |



|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5180 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.18 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.820 MHz<br/>Total Power 17.8 dBm<br/>Transmit Freq Error 12.209 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 23.09 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5200 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.2 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.888 MHz<br/>Total Power 15.2 dBm<br/>Transmit Freq Error 70.429 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.86 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5240 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.24 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.890 MHz<br/>Total Power 19.6 dBm<br/>Transmit Freq Error 70.160 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.86 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p> |



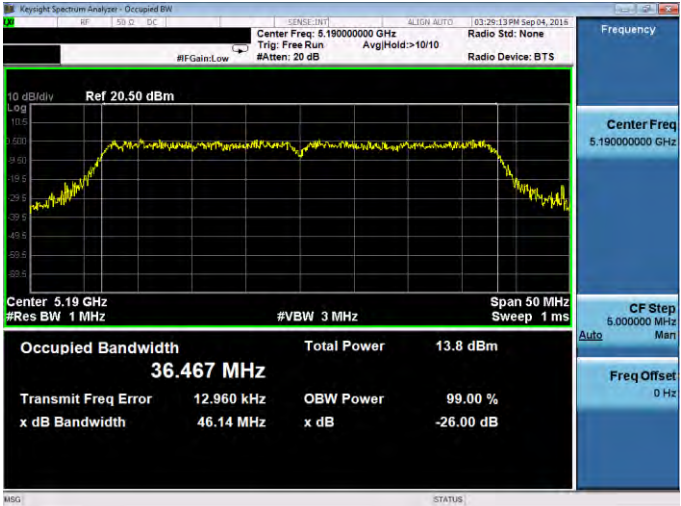
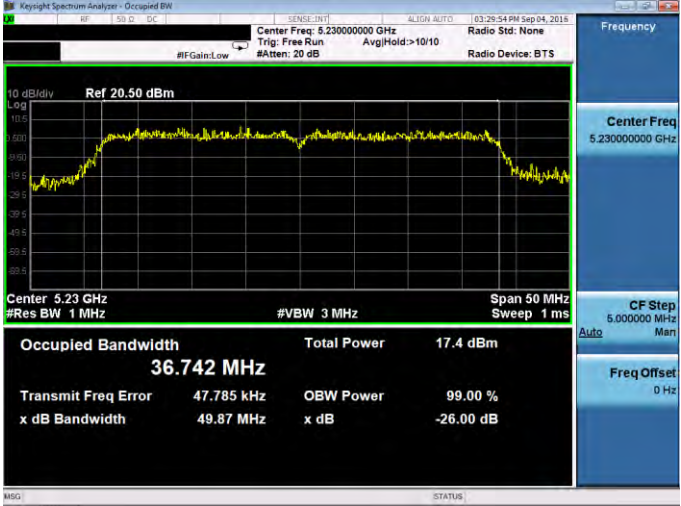
| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5190 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.190000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.19 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.582 MHz<br/>Total Power 18.1 dBm<br/>Transmit Freq Error -8.376 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 46.34 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5230 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.230000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.23 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.750 MHz<br/>Total Power 20.8 dBm<br/>Transmit Freq Error 66.779 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 49.86 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>  |
| Mode 5: IEEE 802.11ac 80 MHz Link Mode_ ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5210 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.210000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.21 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 90 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 74.925 MHz<br/>Total Power 17.3 dBm<br/>Transmit Freq Error 38.148 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 84.85 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p> |



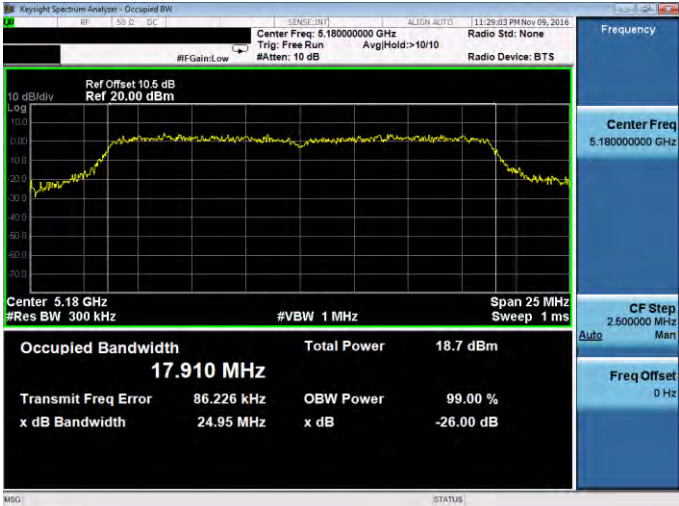
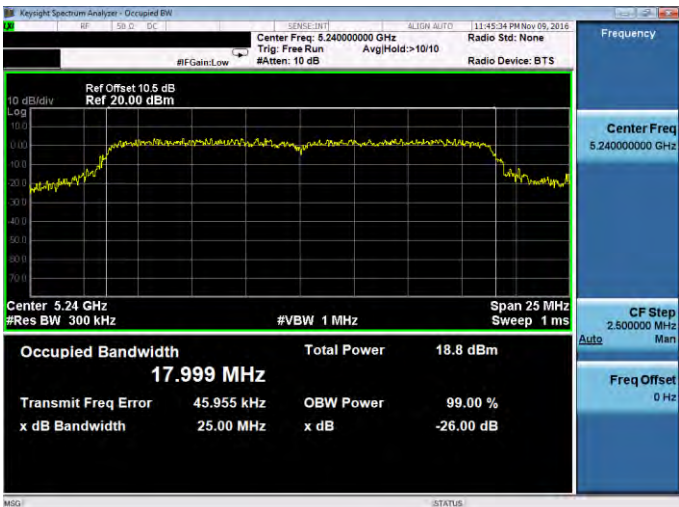


|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5180 MHz                                      | <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.18 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.740 MHz<br/>Total Power 13.6 dBm<br/>Transmit Freq Error 54.668 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 22.96 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p> |
| 5200 MHz                                      | <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.2 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.944 MHz<br/>Total Power 19.5 dBm<br/>Transmit Freq Error 1.168 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.73 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5240 MHz                                      | <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.24 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.906 MHz<br/>Total Power 16.7 dBm<br/>Transmit Freq Error 24.299 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 25.00 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p> |

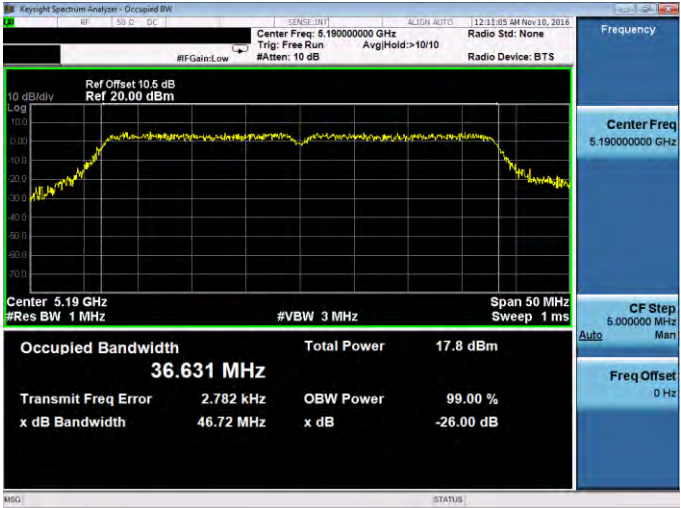
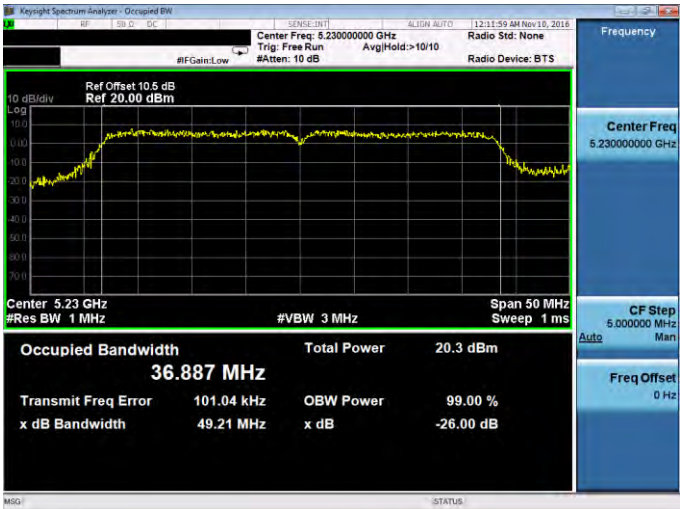


| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5190 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.190000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.19 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.467 MHz<br/>Total Power 13.8 dBm<br/>Transmit Freq Error 12.960 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 46.14 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>   |
| 5230 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.230000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.23 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.742 MHz<br/>Total Power 17.4 dBm<br/>Transmit Freq Error 47.785 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 49.87 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p>  |
| Mode 5: IEEE 802.11ac 80 MHz Link Mode_ ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5210 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.210000000 GHz<br/>Trig: Free Run<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div Ref 20.50 dBm</p> <p>Center 5.21 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 90 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 75.070 MHz<br/>Total Power 14.9 dBm<br/>Transmit Freq Error -3.108 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 79.87 MHz<br/>x dB -26.00 dB</p> <p>MSG STATUS</p> |

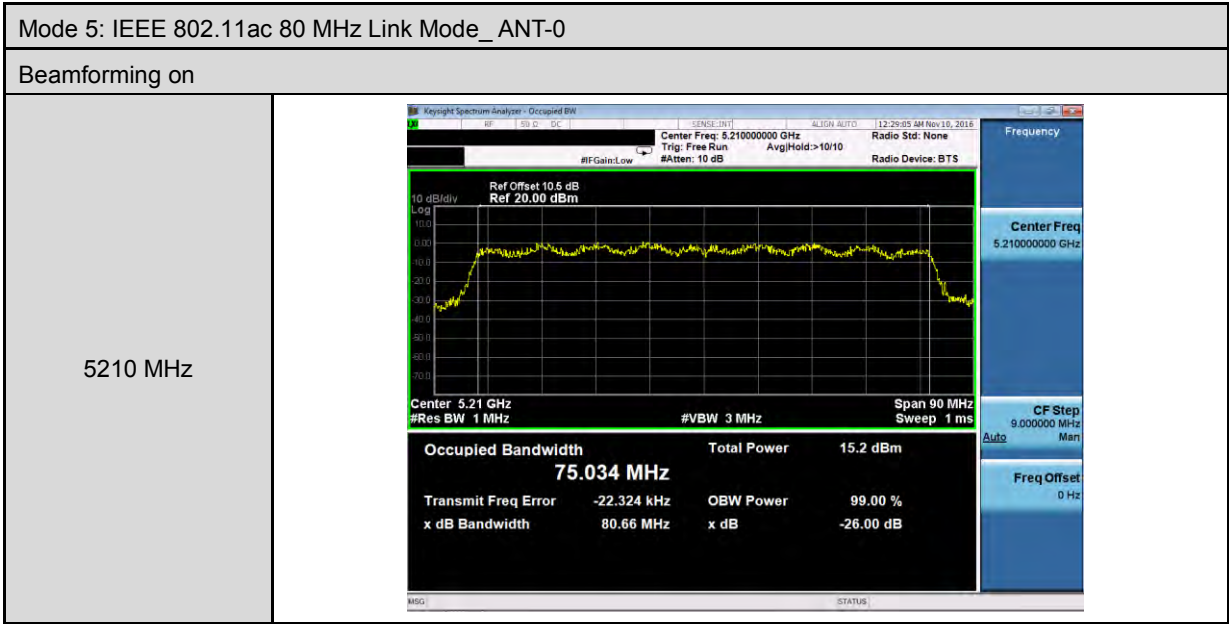


| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beamforming on                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5180 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.18000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.18 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.910 MHz<br/>Total Power 18.7 dBm</p> <p>Transmit Freq Error 86.226 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.95 MHz<br/>x dB -26.00 dB</p>   |
| 5200 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.20000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.2 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.950 MHz<br/>Total Power 18.8 dBm</p> <p>Transmit Freq Error 65.097 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.22 MHz<br/>x dB -26.00 dB</p>   |
| 5240 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.24000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.24 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 17.999 MHz<br/>Total Power 18.8 dBm</p> <p>Transmit Freq Error 45.955 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 25.00 MHz<br/>x dB -26.00 dB</p> |



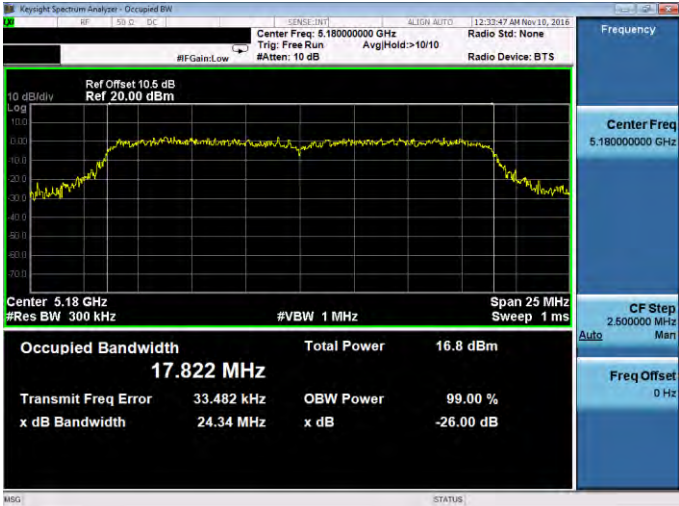
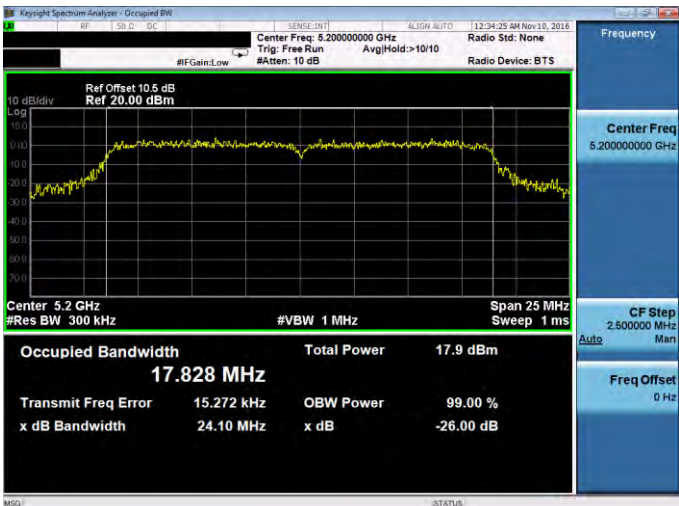
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Beamforming on                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 5190 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.19000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.19 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.631 MHz<br/>Total Power 17.8 dBm</p> <p>Transmit Freq Error 2.782 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 46.72 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.19000000 GHz<br/>CF Step 5.000000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p>   |
| 5230 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.23000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.23 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.887 MHz<br/>Total Power 20.3 dBm</p> <p>Transmit Freq Error 101.04 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 49.21 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.23000000 GHz<br/>CF Step 5.000000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p> |



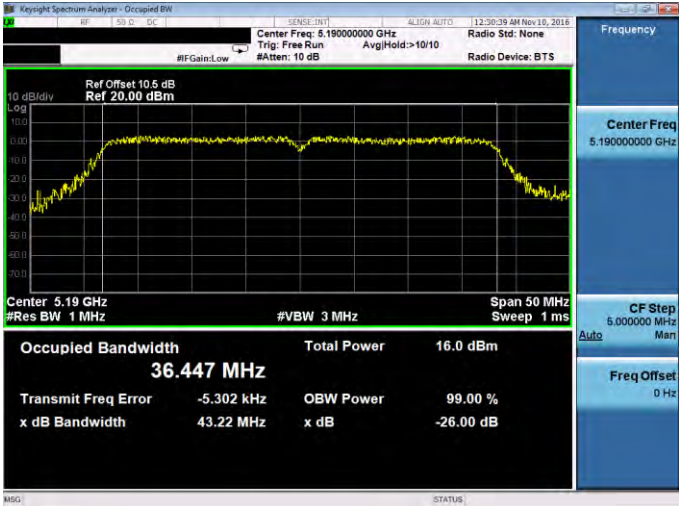


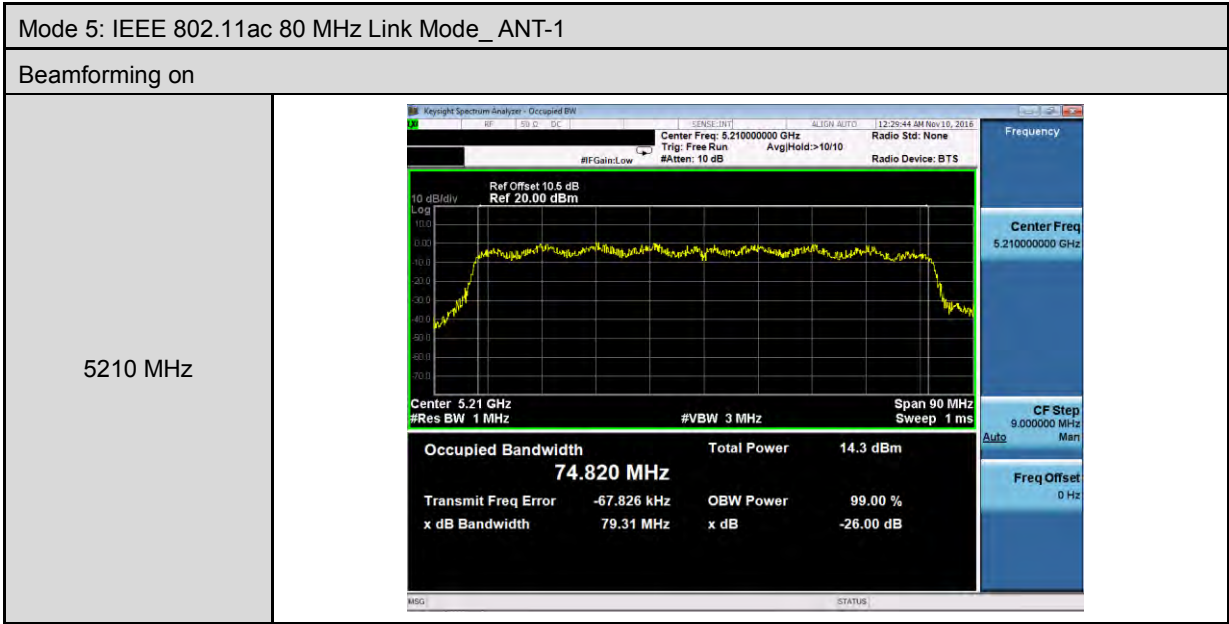




| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beamforming on                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5180 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.18 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>17.822 MHz</b></p> <p>Total Power 16.8 dBm</p> <p>Transmit Freq Error 33.482 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.34 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.180000000 GHz<br/>CF Step 2.500000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p>   |
| 5200 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.2 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>17.828 MHz</b></p> <p>Total Power 17.9 dBm</p> <p>Transmit Freq Error 15.272 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.10 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.200000000 GHz<br/>CF Step 2.500000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p>   |
| 5240 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.24 GHz<br/>#Res BW 300 kHz<br/>#VBW 1 MHz<br/>Span 25 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>17.840 MHz</b></p> <p>Total Power 17.1 dBm</p> <p>Transmit Freq Error 65.014 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 24.67 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.240000000 GHz<br/>CF Step 2.500000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p> |



|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Beamforming on                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5190 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.19000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.19 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.447 MHz<br/>Total Power 16.0 dBm</p> <p>Transmit Freq Error -5.302 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 43.22 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.19000000 GHz<br/>CF Step 5.000000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p>   |
| 5230 MHz                                      |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.23000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Center 5.23 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 50 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth 36.772 MHz<br/>Total Power 20.2 dBm</p> <p>Transmit Freq Error -32.165 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 50.00 MHz<br/>x dB -26.00 dB</p> <p>Frequency<br/>Center Freq 5.23000000 GHz<br/>CF Step 5.000000 MHz<br/>Auto Man<br/>Freq Offset 0 Hz</p> |





## 5.5. 6 dB RF Bandwidth Measurement

| Model Number    | DWA-181                        |       |
|-----------------|--------------------------------|-------|
| Test Item       | 6 dB RF Bandwidth              |       |
| Test Mode       | Mode 2: IEEE 802.11a Link Mode |       |
| Date of Test    | 09/04/2016                     |       |
| Frequency (MHz) | 6 dB Bandwidth (kHz)           |       |
|                 | ANT-0                          |       |
| 5745            | 16350                          | > 500 |
| 5785            | 16410                          | > 500 |
| 5825            | 15720                          | > 500 |

| Model Number    | DWA-181                                |       |
|-----------------|----------------------------------------|-------|
| Test Item       | 6 dB RF Bandwidth                      |       |
| Test Mode       | Mode 3: IEEE 802.11ac 20 MHz Link Mode |       |
| Date of Test    | 09/04/2016                             |       |
| Frequency (MHz) | 6 dB Bandwidth (kHz)                   |       |
|                 | ANT-0                                  | ANT-1 |
| 5745            | 17570                                  | 17200 |
| 5785            | 17600                                  | 16960 |
| 5825            | 17580                                  | 17550 |

| Model Number    | DWA-181                                |       |
|-----------------|----------------------------------------|-------|
| Test Item       | 6 dB RF Bandwidth                      |       |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz Link Mode |       |
| Date of Test    | 09/04/2016                             |       |
| Frequency (MHz) | 6 dB Bandwidth (kHz)                   |       |
|                 | ANT-0                                  | ANT-1 |
| 5755            | 36060                                  | 35150 |
| 5795            | 36020                                  | 35720 |



| Model Number       | DWA-181                                |       |                |
|--------------------|----------------------------------------|-------|----------------|
| Test Item          | 6 dB RF Bandwidth                      |       |                |
| Test Mode          | Mode 5: IEEE 802.11ac 80 MHz Link Mode |       |                |
| Date of Test       | 09/04/2016                             |       |                |
| Frequency<br>(MHz) | 6 dB Bandwidth<br>(kHz)                |       | Limit<br>(kHz) |
|                    | ANT-0                                  | ANT-1 |                |
| 5775               | 72720                                  | 75100 | > 500          |



| Model Number       | DWA-181                                |       |                |
|--------------------|----------------------------------------|-------|----------------|
| Test Item          | 6 dB RF Bandwidth                      |       |                |
| Test Mode          | Mode 3: IEEE 802.11ac 20 MHz Link Mode |       |                |
| Date of Test       | 10/10/2016                             |       |                |
| Beamforming on     |                                        |       |                |
| Frequency<br>(MHz) | 6 dB Bandwidth<br>(kHz)                |       | Limit<br>(kHz) |
|                    | ANT-0                                  | ANT-1 |                |
| 5745               | 16910                                  | 17050 | > 500          |
| 5785               | 17300                                  | 17560 | > 500          |
| 5825               | 16300                                  | 17300 | > 500          |

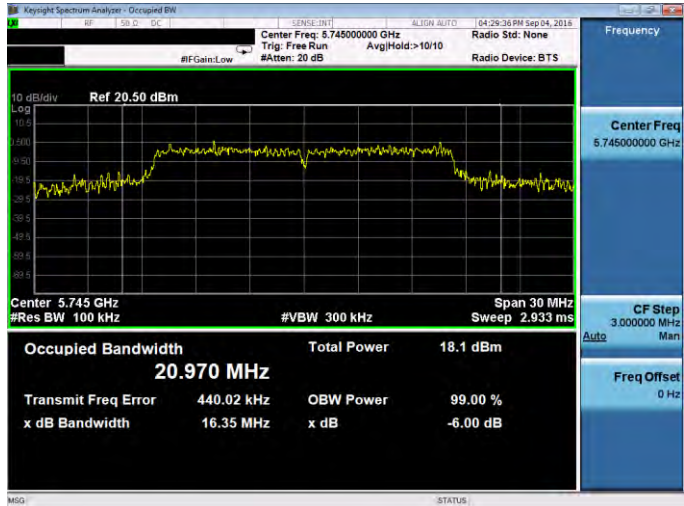
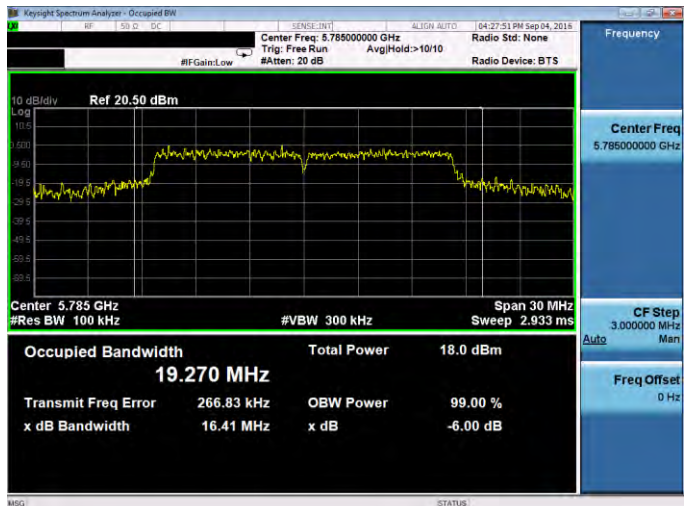
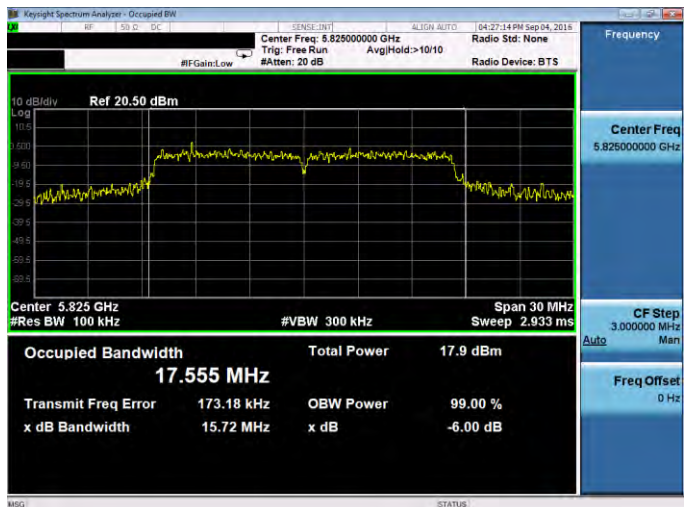
| Model Number       | DWA-181                                |       |                |
|--------------------|----------------------------------------|-------|----------------|
| Test Item          | 6 dB RF Bandwidth                      |       |                |
| Test Mode          | Mode 4: IEEE 802.11ac 40 MHz Link Mode |       |                |
| Date of Test       | 10/10/2016                             |       |                |
| Beamforming on     |                                        |       |                |
| Frequency<br>(MHz) | 6 dB Bandwidth<br>(kHz)                |       | Limit<br>(kHz) |
|                    | ANT-0                                  | ANT-1 |                |
| 5755               | 35100                                  | 35500 | > 500          |
| 5795               | 35220                                  | 35570 | > 500          |

| Model Number       | DWA-181                                |       |                |
|--------------------|----------------------------------------|-------|----------------|
| Test Item          | 6 dB RF Bandwidth                      |       |                |
| Test Mode          | Mode 5: IEEE 802.11ac 80 MHz Link Mode |       |                |
| Date of Test       | 10/10/2016                             |       |                |
| Beamforming on     |                                        |       |                |
| Frequency<br>(MHz) | 6 dB Bandwidth<br>(kHz)                |       | Limit<br>(kHz) |
|                    | ANT-0                                  | ANT-1 |                |
| 5775               | 75180                                  | 75070 | > 500          |

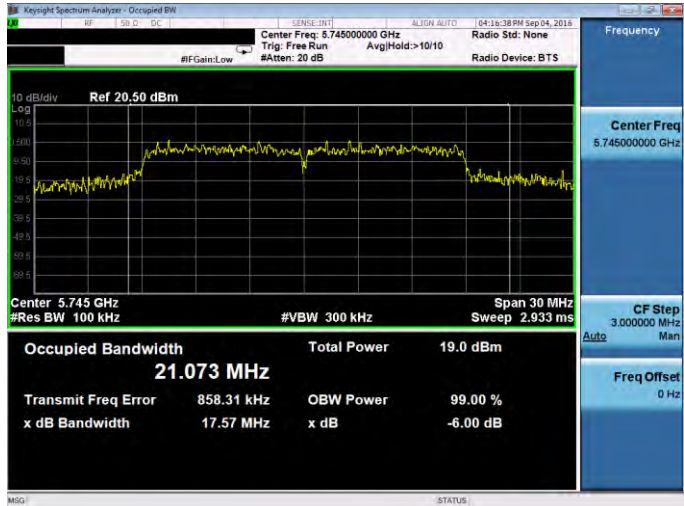
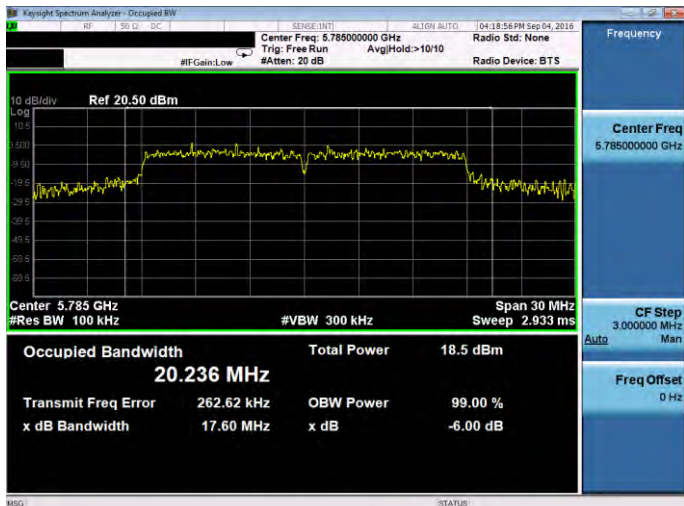
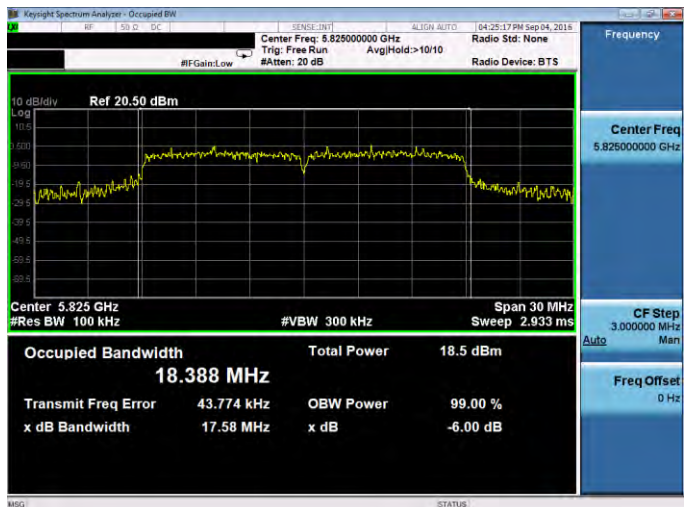




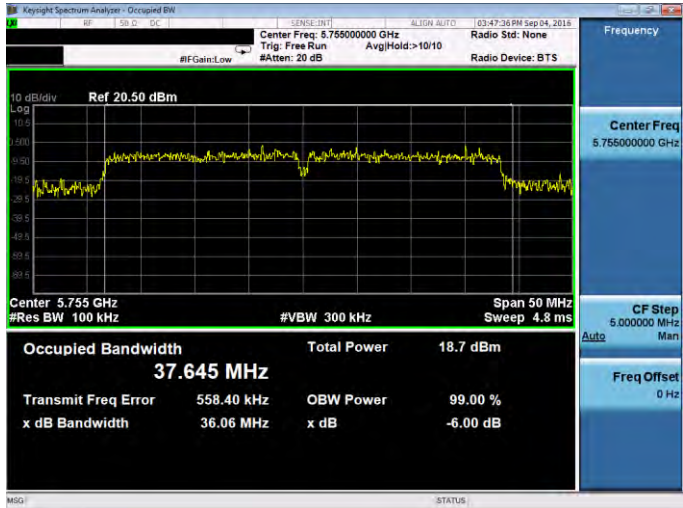
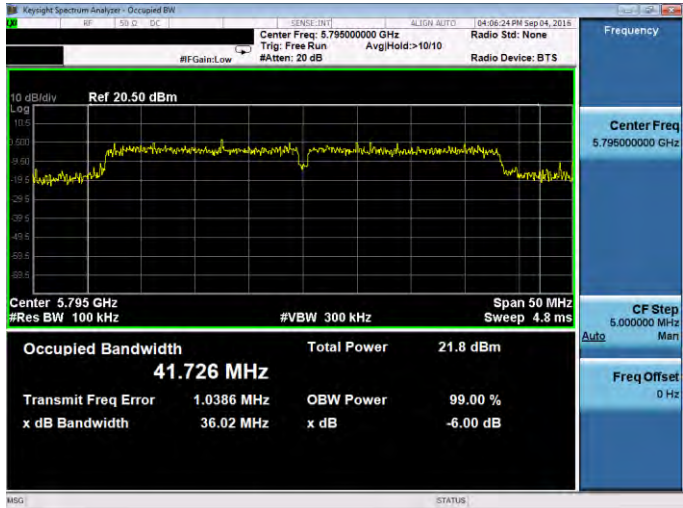
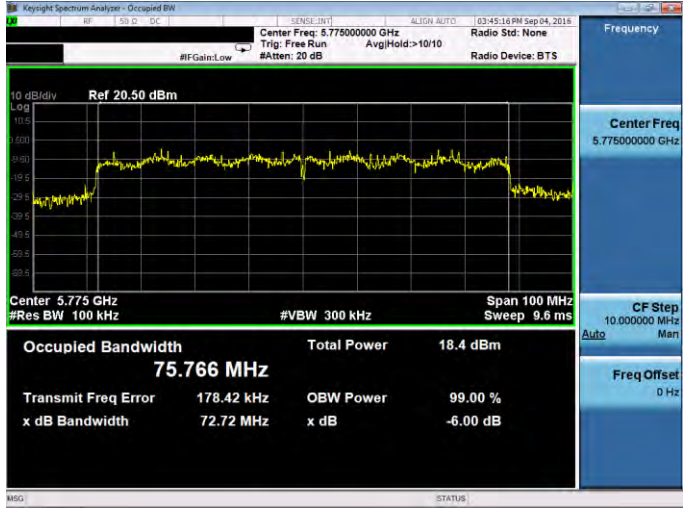
■ Test Graphs

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| Mode 2: IEEE 802.11a Link Mode_ ANT-0 |                                                                                      |
| 5745 MHz                              |    |
| 5785 MHz                              |   |
| 5825 MHz                              |  |



| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ANT-0 |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| 5745 MHz                                     |    |
| 5785 MHz                                     |   |
| 5825 MHz                                     |  |



| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |             |            |          |                     |           |            |         |                |      |           |          |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|------------|----------|---------------------|-----------|------------|---------|----------------|------|-----------|----------|
| 5755 MHz                                     |  <p>Key: RF 50 D DC SENSE: DNT ALIGN: AUTO 03:47:36 PM Sep 04, 2016</p> <p>Center Freq: 5.755000000 GHz<br/>Trig: Free Run Avg/Hold: &gt;10/10<br/>#FGain: Low #Atten: 20 dB Radio Std: None Radio Device: BTS</p> <p>Ref 20.50 dBm</p> <p>Center 5.755 GHz<br/>#Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms</p> <table><tr><td>Occupied Bandwidth</td><td>Total Power</td></tr><tr><td>37.645 MHz</td><td>18.7 dBm</td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td></tr><tr><td>558.40 kHz</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>x dB</td></tr><tr><td>36.06 MHz</td><td>-6.00 dB</td></tr></table> <p>MSG: STATUS:</p> <p>Frequency: 5.755000000 GHz<br/>CF Step: 5.000000 MHz<br/>Freq Offset: 0 Hz</p>     | Occupied Bandwidth | Total Power | 37.645 MHz | 18.7 dBm | Transmit Freq Error | OBW Power | 558.40 kHz | 99.00 % | x dB Bandwidth | x dB | 36.06 MHz | -6.00 dB |
| Occupied Bandwidth                           | Total Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 37.645 MHz                                   | 18.7 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |             |            |          |                     |           |            |         |                |      |           |          |
| Transmit Freq Error                          | OBW Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 558.40 kHz                                   | 99.00 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |             |            |          |                     |           |            |         |                |      |           |          |
| x dB Bandwidth                               | x dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 36.06 MHz                                    | -6.00 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 5795 MHz                                     |  <p>Key: RF 50 D DC SENSE: DNT ALIGN: AUTO 04:06:24 PM Sep 04, 2016</p> <p>Center Freq: 5.795000000 GHz<br/>Trig: Free Run Avg/Hold: &gt;10/10<br/>#FGain: Low #Atten: 20 dB Radio Std: None Radio Device: BTS</p> <p>Ref 20.50 dBm</p> <p>Center 5.795 GHz<br/>#Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms</p> <table><tr><td>Occupied Bandwidth</td><td>Total Power</td></tr><tr><td>41.726 MHz</td><td>21.8 dBm</td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td></tr><tr><td>1.0386 MHz</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>x dB</td></tr><tr><td>36.02 MHz</td><td>-6.00 dB</td></tr></table> <p>MSG: STATUS:</p> <p>Frequency: 5.795000000 GHz<br/>CF Step: 5.000000 MHz<br/>Freq Offset: 0 Hz</p>    | Occupied Bandwidth | Total Power | 41.726 MHz | 21.8 dBm | Transmit Freq Error | OBW Power | 1.0386 MHz | 99.00 % | x dB Bandwidth | x dB | 36.02 MHz | -6.00 dB |
| Occupied Bandwidth                           | Total Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 41.726 MHz                                   | 21.8 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |             |            |          |                     |           |            |         |                |      |           |          |
| Transmit Freq Error                          | OBW Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 1.0386 MHz                                   | 99.00 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |             |            |          |                     |           |            |         |                |      |           |          |
| x dB Bandwidth                               | x dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 36.02 MHz                                    | -6.00 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |             |            |          |                     |           |            |         |                |      |           |          |
| Mode 5: IEEE 802.11ac 80 MHz Link Mode_ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 5775 MHz                                     |  <p>Key: RF 50 D DC SENSE: DNT ALIGN: AUTO 03:45:16 PM Sep 04, 2016</p> <p>Center Freq: 5.775000000 GHz<br/>Trig: Free Run Avg/Hold: &gt;10/10<br/>#FGain: Low #Atten: 20 dB Radio Std: None Radio Device: BTS</p> <p>Ref 20.50 dBm</p> <p>Center 5.775 GHz<br/>#Res BW 100 kHz #VBW 300 kHz Span 100 MHz Sweep 9.6 ms</p> <table><tr><td>Occupied Bandwidth</td><td>Total Power</td></tr><tr><td>75.766 MHz</td><td>18.4 dBm</td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td></tr><tr><td>178.42 kHz</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>x dB</td></tr><tr><td>72.72 MHz</td><td>-6.00 dB</td></tr></table> <p>MSG: STATUS:</p> <p>Frequency: 5.775000000 GHz<br/>CF Step: 10.000000 MHz<br/>Freq Offset: 0 Hz</p> | Occupied Bandwidth | Total Power | 75.766 MHz | 18.4 dBm | Transmit Freq Error | OBW Power | 178.42 kHz | 99.00 % | x dB Bandwidth | x dB | 72.72 MHz | -6.00 dB |
| Occupied Bandwidth                           | Total Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 75.766 MHz                                   | 18.4 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |             |            |          |                     |           |            |         |                |      |           |          |
| Transmit Freq Error                          | OBW Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 178.42 kHz                                   | 99.00 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |             |            |          |                     |           |            |         |                |      |           |          |
| x dB Bandwidth                               | x dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |             |            |          |                     |           |            |         |                |      |           |          |
| 72.72 MHz                                    | -6.00 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |             |            |          |                     |           |            |         |                |      |           |          |

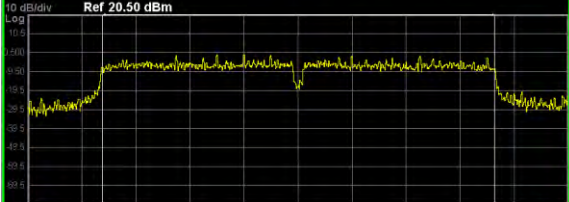
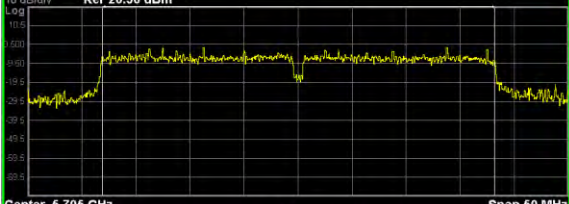
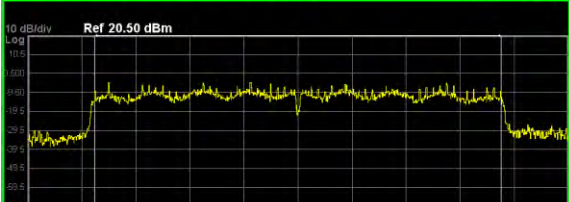




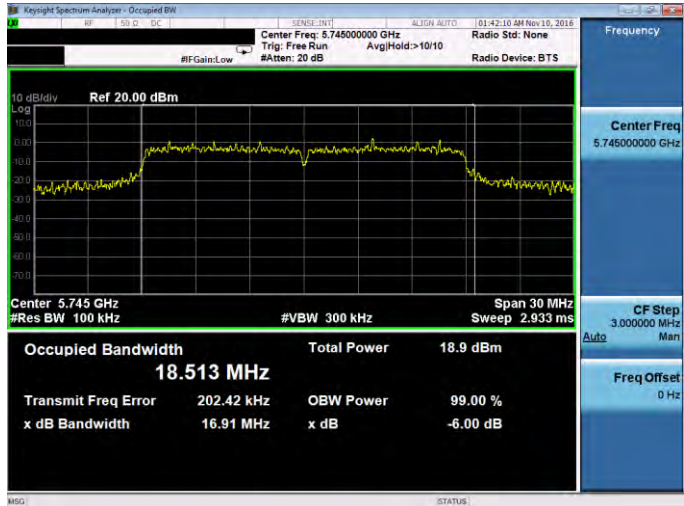
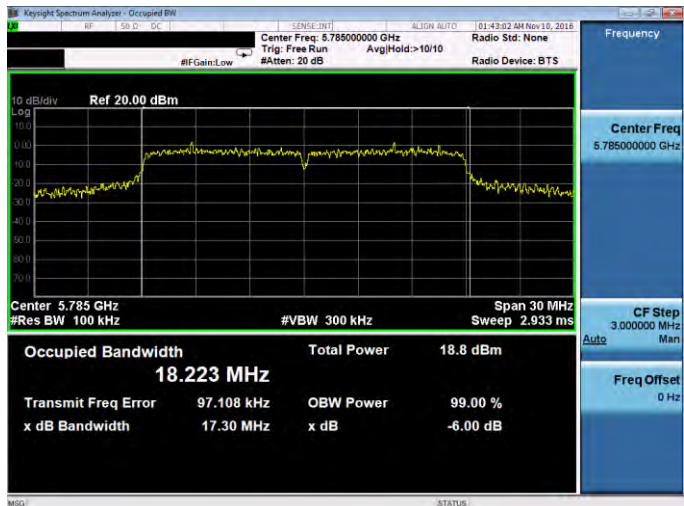
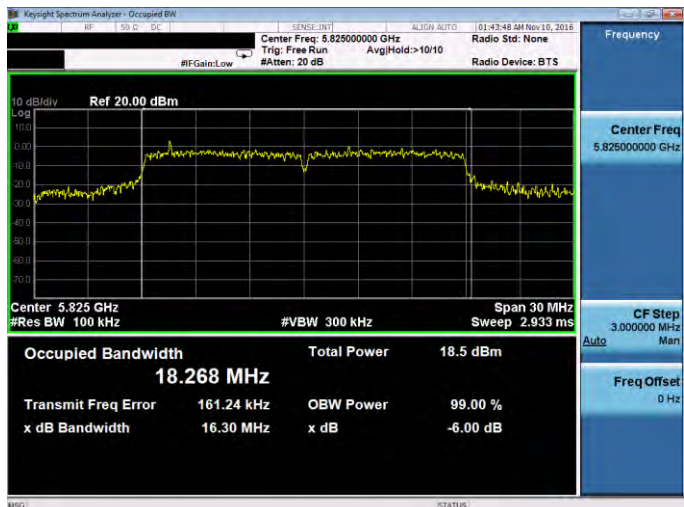
Mode 3: IEEE 802.11ac 20 MHz Link Mode\_ANT-1

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5745 MHz | <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.74500000 GHz<br/>Trig: Free Run<br/>#Att: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.50 dBm</p> <p>Center 5.745 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.709 MHz<br/>Total Power 16.3 dBm<br/>Transmit Freq Error 19.372 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 17.20 MHz<br/>x dB -6.00 dB</p> <p>MSG STATUS</p> |
| 5785 MHz | <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.78500000 GHz<br/>Trig: Free Run<br/>#Att: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.50 dBm</p> <p>Center 5.785 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.709 MHz<br/>Total Power 15.2 dBm<br/>Transmit Freq Error 26.128 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 16.96 MHz<br/>x dB -6.00 dB</p> <p>MSG STATUS</p> |
| 5825 MHz | <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.82500000 GHz<br/>Trig: Free Run<br/>#Att: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.50 dBm</p> <p>Center 5.825 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.656 MHz<br/>Total Power 15.0 dBm<br/>Transmit Freq Error 42.917 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 17.55 MHz<br/>x dB -6.00 dB</p> <p>MSG STATUS</p> |

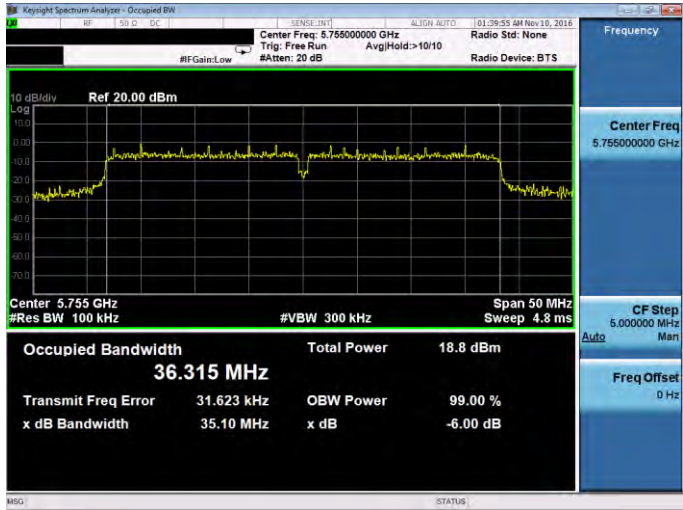
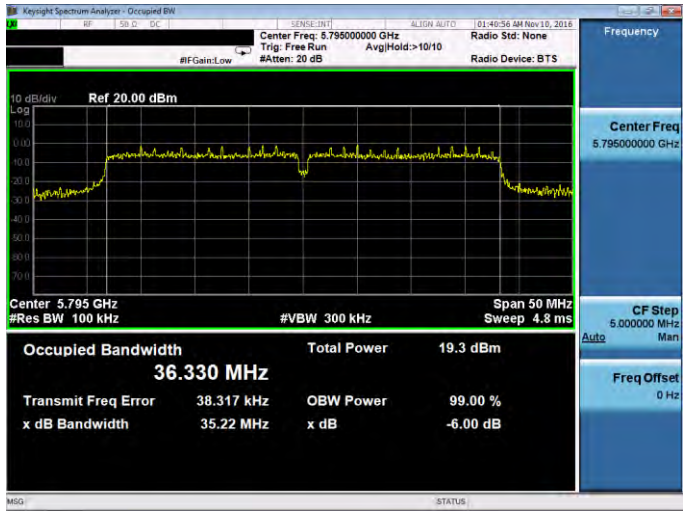


| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5755 MHz                                     | <div><div><div>KeySight Spectrum Analyzer - Occupied BW</div><div><div>Center Freq: 5.755000000 GHz</div><div>Trig: Free Run</div><div>Avg/Hold: &gt;10/10</div><div>Radio Std: None</div><div>#IF Gain: Low</div><div>#Atten: 20 dB</div><div>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Ref 20.50 dBm</div><div></div><div><div>Center 5.755 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 50 MHz</div><div>Sweep 4.8 ms</div></div><div><div>Occupied Bandwidth</div><div>36.251 MHz</div><div>Total Power</div><div>19.2 dBm</div><div>Transmit Freq Error</div><div>45.612 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>35.15 MHz</div><div>x dB</div><div>-6.00 dB</div></div><div><div>MSG</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq</div><div>5.755000000 GHz</div><div>CF Step</div><div>5.000000 MHz</div><div>Man</div><div>Auto</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>     |
| 5795 MHz                                     | <div><div><div>KeySight Spectrum Analyzer - Occupied BW</div><div><div>Center Freq: 5.795000000 GHz</div><div>Trig: Free Run</div><div>Avg/Hold: &gt;10/10</div><div>Radio Std: None</div><div>#IF Gain: Low</div><div>#Atten: 20 dB</div><div>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Ref 20.50 dBm</div><div></div><div><div>Center 5.795 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 50 MHz</div><div>Sweep 4.8 ms</div></div><div><div>Occupied Bandwidth</div><div>36.256 MHz</div><div>Total Power</div><div>18.8 dBm</div><div>Transmit Freq Error</div><div>41.419 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>35.72 MHz</div><div>x dB</div><div>-6.00 dB</div></div><div><div>MSG</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq</div><div>5.795000000 GHz</div><div>CF Step</div><div>5.000000 MHz</div><div>Man</div><div>Auto</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>   |
| Mode 5: IEEE 802.11ac 80 MHz Link Mode_ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5775 MHz                                     | <div><div><div>KeySight Spectrum Analyzer - Occupied BW</div><div><div>Center Freq: 5.775000000 GHz</div><div>Trig: Free Run</div><div>Avg/Hold: &gt;10/10</div><div>Radio Std: None</div><div>#IF Gain: Low</div><div>#Atten: 20 dB</div><div>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Ref 20.50 dBm</div><div></div><div><div>Center 5.775 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 100 MHz</div><div>Sweep 9.6 ms</div></div><div><div>Occupied Bandwidth</div><div>75.121 MHz</div><div>Total Power</div><div>18.0 dBm</div><div>Transmit Freq Error</div><div>30.419 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>75.10 MHz</div><div>x dB</div><div>-6.00 dB</div></div><div><div>MSG</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq</div><div>5.775000000 GHz</div><div>CF Step</div><div>10.000000 MHz</div><div>Man</div><div>Auto</div><div>Freq Offset</div><div>0 Hz</div></div></div></div> |

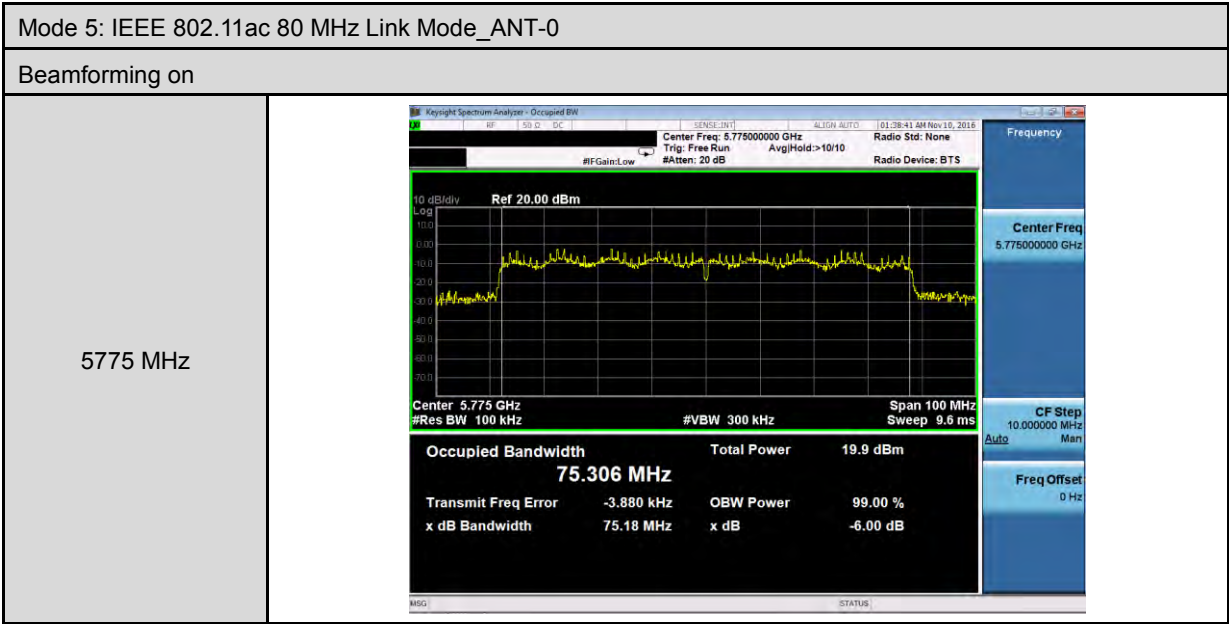


| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beamforming on                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5745 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.745 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 18.513 MHz<br/>Total Power 18.9 dBm</p> <p>Transmit Freq Error 202.42 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 16.91 MHz<br/>x dB -6.00 dB</p>   |
| 5785 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.785000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.785 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 18.223 MHz<br/>Total Power 18.8 dBm</p> <p>Transmit Freq Error 97.108 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 17.30 MHz<br/>x dB -6.00 dB</p>  |
| 5825 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.825000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.825 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 18.268 MHz<br/>Total Power 18.5 dBm</p> <p>Transmit Freq Error 161.24 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 16.30 MHz<br/>x dB -6.00 dB</p> |

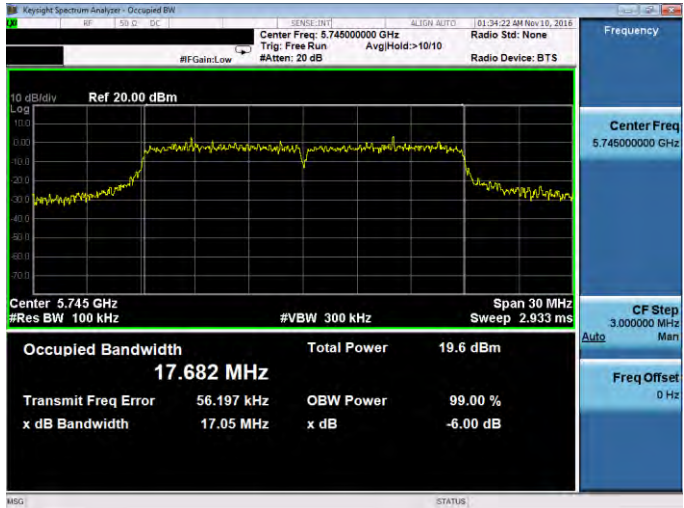
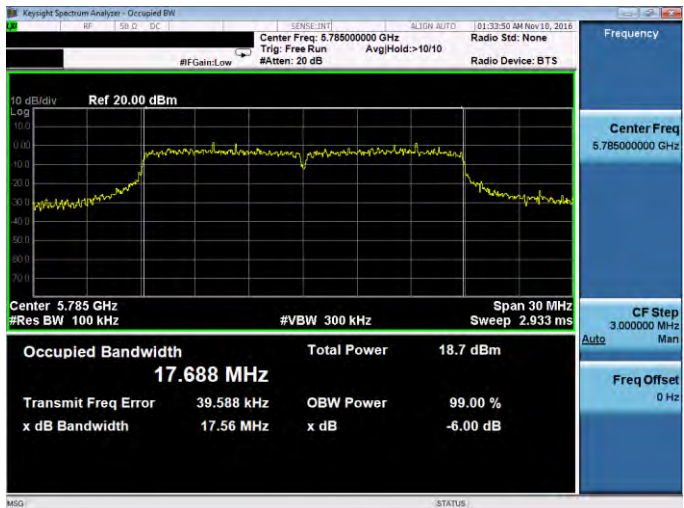
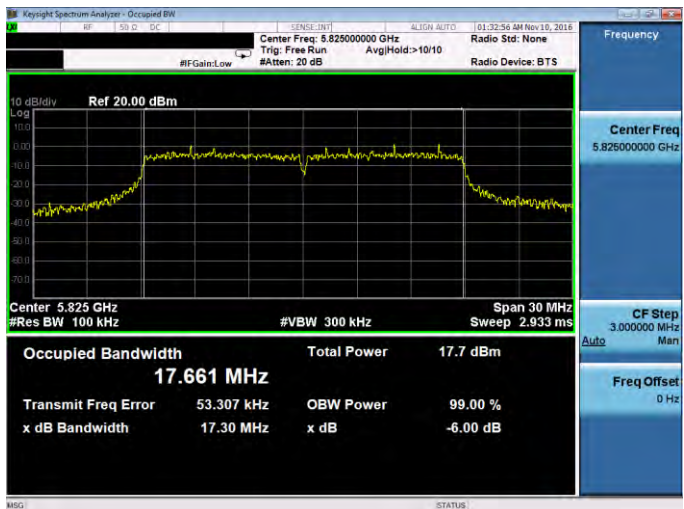


|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ANT-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Beamforming on                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5755 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.75500000 GHz<br/>Trig: Free Run<br/>#IFGain: Low<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.755 GHz<br/>#Res BW 100 kHz<br/>Span 50 MHz<br/>#VBW 300 kHz<br/>Sweep 4.8 ms</p> <p>Occupied Bandwidth 36.315 MHz<br/>Total Power 18.8 dBm</p> <p>Transmit Freq Error 31.623 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 35.10 MHz<br/>x dB -6.00 dB</p> <p>MSG: STATUS</p>  |
| 5795 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.79500000 GHz<br/>Trig: Free Run<br/>#IFGain: Low<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.795 GHz<br/>#Res BW 100 kHz<br/>Span 50 MHz<br/>#VBW 300 kHz<br/>Sweep 4.8 ms</p> <p>Occupied Bandwidth 36.330 MHz<br/>Total Power 19.3 dBm</p> <p>Transmit Freq Error 38.317 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 35.22 MHz<br/>x dB -6.00 dB</p> <p>MSG: STATUS</p> |

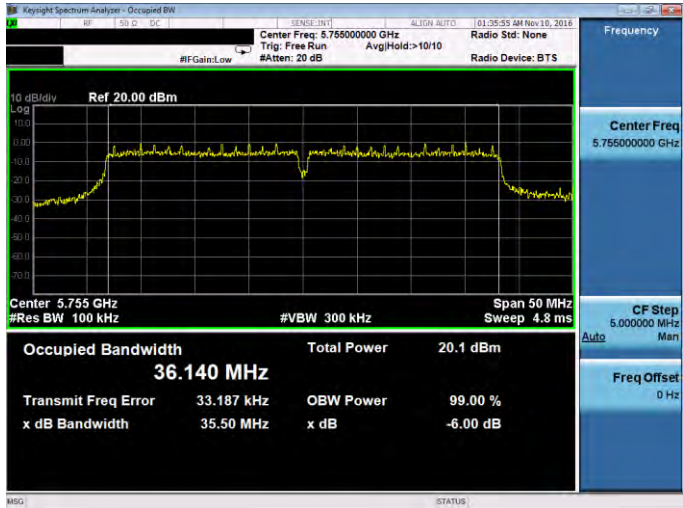
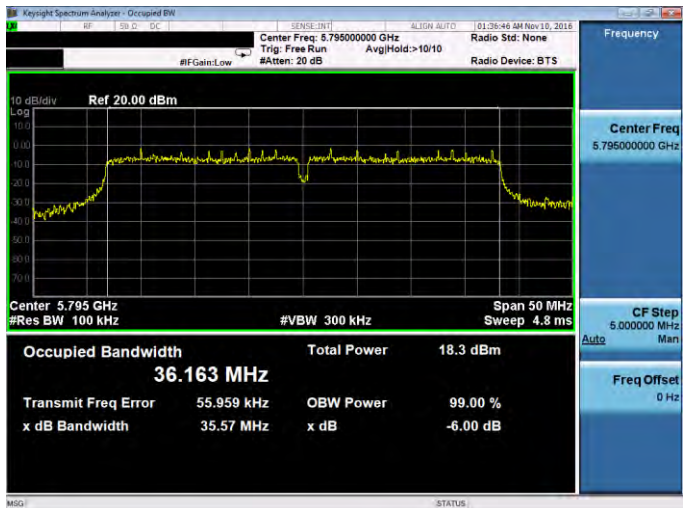


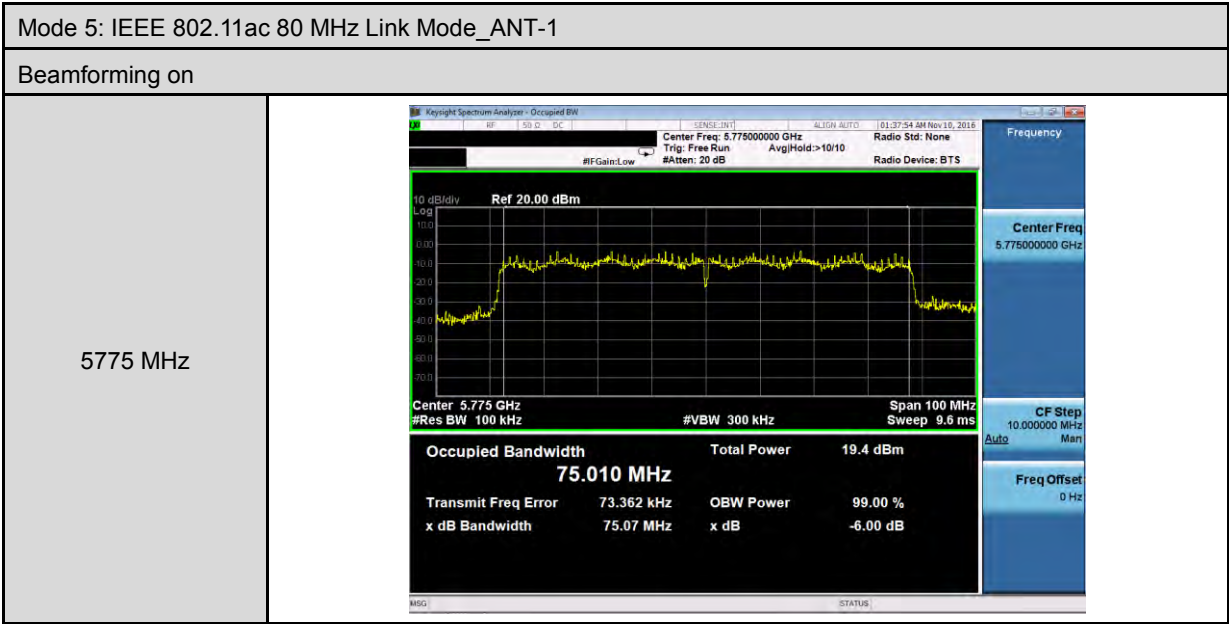




| Mode 3: IEEE 802.11ac 20 MHz Link Mode_ANT-1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beamforming on                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5745 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.74500000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.745 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.682 MHz<br/>Total Power 19.6 dBm</p> <p>Transmit Freq Error 56.197 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 17.05 MHz x dB -6.00 dB</p> <p>MSG: STATUS</p>   |
| 5785 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.78500000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.785 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.688 MHz<br/>Total Power 18.7 dBm</p> <p>Transmit Freq Error 39.588 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 17.56 MHz x dB -6.00 dB</p> <p>MSG: STATUS</p>  |
| 5825 MHz                                     |  <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.82500000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 20 dB<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.825 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 30 MHz<br/>Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.661 MHz<br/>Total Power 17.7 dBm</p> <p>Transmit Freq Error 53.307 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 17.30 MHz x dB -6.00 dB</p> <p>MSG: STATUS</p> |



|                                              |                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ANT-1 |                                                                                                                                                                                                                                                                                                                                                                              |
| Beamforming on                               |                                                                                                                                                                                                                                                                                                                                                                              |
| 5755 MHz                                     |  <p>Key features of the 5755 MHz screenshot:</p> <ul style="list-style-type: none"><li>Center Freq: 5.75500000 GHz</li><li>Span: 50 MHz</li><li>Occupied Bandwidth: 36.140 MHz</li><li>Total Power: 20.1 dBm</li><li>Transmit Freq Error: 33.187 kHz</li><li>OBW Power: 99.00 %</li></ul>  |
| 5795 MHz                                     |  <p>Key features of the 5795 MHz screenshot:</p> <ul style="list-style-type: none"><li>Center Freq: 5.79500000 GHz</li><li>Span: 50 MHz</li><li>Occupied Bandwidth: 36.163 MHz</li><li>Total Power: 18.3 dBm</li><li>Transmit Freq Error: 55.959 kHz</li><li>OBW Power: 99.00 %</li></ul> |





## 5.6. Maximum Power Spectral Density Measurement

|                 |                                  |                  |                      |                 |
|-----------------|----------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                          |                  |                      |                 |
| Test Item       | Conducted power spectral density |                  |                      |                 |
| Test Mode       | Mode 2: IEEE 802.11a link mode   |                  |                      |                 |
| Date of Test    | 09/04/2016                       |                  |                      |                 |
| Frequency (MHz) | ANT-0                            |                  |                      |                 |
|                 | Measurement (dBm/MHz)            | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5180            | 2.509                            | 0.305            | 2.814                | < 11            |
| 5200            | 1.975                            | 0.305            | 2.280                |                 |
| 5240            | 2.312                            | 0.305            | 2.617                |                 |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

|                 |                                  |                  |                          |                     |
|-----------------|----------------------------------|------------------|--------------------------|---------------------|
| Model Number    | DWA-181                          |                  |                          |                     |
| Test Item       | Conducted power spectral density |                  |                          |                     |
| Test Mode       | Mode 2: IEEE 802.11a link mode   |                  |                          |                     |
| Date of Test    | 09/04/2016                       |                  |                          |                     |
| Frequency (MHz) | ANT-0                            |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)        | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5745            | -8.30                            | 0.305            | -1.00                    | < 30                |
| 5785            | -8.83                            | 0.305            | -1.54                    |                     |
| 5825            | -9.25                            | 0.305            | -1.95                    |                     |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



|                 |                                        |                  |                      |                 |
|-----------------|----------------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                                |                  |                      |                 |
| Test Item       | Conducted power spectral density       |                  |                      |                 |
| Test Mode       | Mode 3: IEEE 802.11ac 20 MHz link mode |                  |                      |                 |
| Date of Test    | 09/04/2016                             |                  |                      |                 |
| Frequency (MHz) | ANT-0                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5180            | 1.892                                  | 0.717            | 2.609                | < 11            |
| 5200            | 2.329                                  | 0.717            | 3.046                |                 |
| 5240            | 0.982                                  | 0.717            | 1.699                |                 |
| Frequency (MHz) | ANT-1                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5180            | -2.214                                 | 0.717            | -1.497               | < 11            |
| 5200            | -1.313                                 | 0.717            | -0.596               |                 |
| 5240            | 1.984                                  | 0.717            | 2.701                |                 |
| Frequency (MHz) | ANT-0+1                                |                  |                      |                 |
|                 | Calculated (dBm/MHz)                   |                  |                      | Limit (dBm/MHz) |
| 5180            | 4.034                                  |                  |                      | < 11            |
| 5200            | 4.606                                  |                  |                      |                 |
| 5240            | 5.239                                  |                  |                      |                 |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.





|                 |                                        |                  |                          |                     |
|-----------------|----------------------------------------|------------------|--------------------------|---------------------|
| Model Number    | DWA-181                                |                  |                          |                     |
| Test Item       | Conducted power spectral density       |                  |                          |                     |
| Test Mode       | Mode 3: IEEE 802.11ac 20 MHz link mode |                  |                          |                     |
| Date of Test    | 09/04/2016                             |                  |                          |                     |
| Frequency (MHz) | ANT-0                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5745            | -6.67                                  | 0.717            | 1.03                     | < 30                |
| 5785            | -6.84                                  | 0.717            | 0.87                     |                     |
| 5825            | -6.59                                  | 0.717            | 1.12                     |                     |
| Frequency (MHz) | ANT-1                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5745            | -8.74                                  | 0.717            | -1.03                    | < 30                |
| 5785            | -9.61                                  | 0.717            | -1.90                    |                     |
| 5825            | -11.52                                 | 0.717            | -3.81                    |                     |
| Frequency (MHz) | ANT-0+1                                |                  |                          | Limit (dBm/500 kHz) |
|                 | Calculated (dBm/500 kHz)               |                  |                          |                     |
| 5745            | 3.13                                   |                  |                          | < 30                |
| 5785            | 2.71                                   |                  |                          |                     |
| 5825            | 2.33                                   |                  |                          |                     |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



|                 |                                        |                  |                      |                 |
|-----------------|----------------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                                |                  |                      |                 |
| Test Item       | Conducted power spectral density       |                  |                      |                 |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz link mode |                  |                      |                 |
| Date of Test    | 09/04/2016                             |                  |                      |                 |
| Frequency (MHz) | ANT-0                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5190            | -7.292                                 | 0.473            | -6.819               | < 11            |
| 5230            | -6.462                                 | 0.473            | -5.989               |                 |
| Frequency (MHz) | ANT-1                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5190            | -3.935                                 | 0.473            | -3.462               | < 11            |
| 5230            | -4.394                                 | 0.473            | -3.921               |                 |
| Frequency (MHz) | ANT-0+1                                |                  |                      | Limit (dBm/MHz) |
|                 | Calculated (dBm/MHz)                   |                  |                      |                 |
| 5190            | -1.813                                 |                  |                      | < 11            |
| 5230            | -1.822                                 |                  |                      |                 |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



|                 |                                        |                  |                          |                     |
|-----------------|----------------------------------------|------------------|--------------------------|---------------------|
| Model Number    | DWA-181                                |                  |                          |                     |
| Test Item       | Conducted power spectral density       |                  |                          |                     |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz link mode |                  |                          |                     |
| Date of Test    | 09/04/2016                             |                  |                          |                     |
| Frequency (MHz) | ANT-0                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5755            | -15.34                                 | 0.473            | -7.88                    | < 30                |
| 5795            | -6.06                                  | 0.473            | 1.41                     |                     |
| Frequency (MHz) | ANT-1                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5755            | -15.16                                 | 0.473            | -7.69                    | < 30                |
| 5795            | -10.14                                 | 0.473            | -2.67                    |                     |
| Frequency (MHz) | ANT-0+1                                |                  |                          |                     |
|                 | Calculated (dBm/500 kHz)               |                  |                          | Limit (dBm/500 kHz) |
| 5755            | -4.77                                  |                  |                          | < 30                |
| 5795            | 2.84                                   |                  |                          |                     |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



|                 |                                        |                  |                      |                 |
|-----------------|----------------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                                |                  |                      |                 |
| Test Item       | Conducted power spectral density       |                  |                      |                 |
| Test Mode       | Mode 5: IEEE 802.11ac 80 MHz link mode |                  |                      |                 |
| Date of Test    | 09/04/2016                             |                  |                      |                 |
| Frequency (MHz) | ANT-0                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5210            | -7.327                                 | 1.753            | -5.574               | < 11            |
| Frequency (MHz) | ANT-1                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5210            | -7.929                                 | 1.753            | -6.176               | < 11            |
| Frequency (MHz) | ANT-0+1                                |                  |                      |                 |
|                 | Calculated (dBm/MHz)                   |                  |                      | Limit (dBm/MHz) |
| 5210            | -2.854                                 |                  |                      | < 11            |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



|                 |                                        |                  |                          |                 |
|-----------------|----------------------------------------|------------------|--------------------------|-----------------|
| Model Number    | DWA-181                                |                  |                          |                 |
| Test Item       | Conducted power spectral density       |                  |                          |                 |
| Test Mode       | Mode 5: IEEE 802.11ac 80 MHz link mode |                  |                          |                 |
| Date of Test    | 09/04/2016                             |                  |                          |                 |
| Frequency (MHz) | ANT-0                                  |                  |                          |                 |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/MHz) |
| 5775            | -7.80                                  | 1.753            | 0.95                     | < 30            |
| Frequency (MHz) | ANT-1                                  |                  |                          |                 |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/MHz) |
| 5775            | -14.76                                 | 1.753            | -6.02                    | < 30            |
| Frequency (MHz) | ANT-0+1                                |                  |                          |                 |
|                 | Calculated (dBm/500 kHz)               |                  |                          | Limit (dBm/MHz) |
| 5775            | 1.74                                   |                  |                          | < 30            |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



|                 |                                        |                  |                      |                 |
|-----------------|----------------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                                |                  |                      |                 |
| Test Item       | Conducted power spectral density       |                  |                      |                 |
| Test Mode       | Mode 3: IEEE 802.11ac 20 MHz link mode |                  |                      |                 |
| Date of Test    | 09/04/2016                             |                  |                      |                 |
| Beamforming on  |                                        |                  |                      |                 |
| Frequency (MHz) | ANT-0                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5180            | 0.365                                  | 0.120            | 0.485                | < 11            |
| 5200            | 1.527                                  | 0.120            | 1.647                |                 |
| 5240            | 1.654                                  | 0.120            | 1.774                |                 |
| Frequency (MHz) | ANT-1                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5180            | 0.861                                  | 0.120            | 0.981                | < 11            |
| 5200            | 1.004                                  | 0.120            | 1.124                |                 |
| 5240            | 1.349                                  | 0.120            | 1.469                |                 |
| Frequency (MHz) | ANT-0+1                                |                  |                      | Limit (dBm/MHz) |
|                 | Calculated (dBm/MHz)                   |                  |                      |                 |
| 5180            | 3.750                                  |                  |                      | < 11            |
| 5200            | 4.404                                  |                  |                      |                 |
| 5240            | 4.635                                  |                  |                      |                 |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.





|                 |                                        |                  |                          |                     |
|-----------------|----------------------------------------|------------------|--------------------------|---------------------|
| Model Number    | DWA-181                                |                  |                          |                     |
| Test Item       | Conducted power spectral density       |                  |                          |                     |
| Test Mode       | Mode 3: IEEE 802.11ac 20 MHz link mode |                  |                          |                     |
| Date of Test    | 09/04/2016                             |                  |                          |                     |
| Beamforming on  |                                        |                  |                          |                     |
| Frequency (MHz) | ANT-0                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5745            | -6.85                                  | 0.120            | 0.26                     | < 30                |
| 5785            | -6.62                                  | 0.120            | 0.49                     |                     |
| 5825            | -7.27                                  | 0.120            | -0.16                    |                     |
| Frequency (MHz) | ANT-1                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5745            | -7.48                                  | 0.120            | -0.37                    | < 30                |
| 5785            | -6.69                                  | 0.120            | 0.42                     |                     |
| 5825            | -8.55                                  | 0.120            | -1.44                    |                     |
| Frequency (MHz) | ANT-0+1                                |                  |                          | Limit (dBm/500 kHz) |
|                 | Calculated (dBm/500 kHz)               |                  |                          |                     |
| 5745            | 2.97                                   |                  |                          | < 30                |
| 5785            | 3.47                                   |                  |                          |                     |
| 5825            | 2.26                                   |                  |                          |                     |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



|                 |                                        |                  |                      |                 |
|-----------------|----------------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                                |                  |                      |                 |
| Test Item       | Conducted power spectral density       |                  |                      |                 |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz link mode |                  |                      |                 |
| Date of Test    | 09/04/2016                             |                  |                      |                 |
| Beamforming on  |                                        |                  |                      |                 |
| Frequency (MHz) | ANT-0                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5190            | -3.539                                 | 0.964            | -2.575               | < 11            |
| 5230            | -1.019                                 | 0.964            | -0.055               |                 |
| Frequency (MHz) | ANT-1                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5190            | -5.321                                 | 0.964            | -4.357               | < 11            |
| 5230            | -1.974                                 | 0.964            | -1.010               |                 |
| Frequency (MHz) | ANT-0+1                                |                  |                      |                 |
|                 | Calculated (dBm/MHz)                   |                  |                      | Limit (dBm/MHz) |
| 5190            | -0.365                                 |                  |                      | < 11            |
| 5230            | 2.504                                  |                  |                      |                 |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



|                 |                                        |                  |                          |                     |
|-----------------|----------------------------------------|------------------|--------------------------|---------------------|
| Model Number    | DWA-181                                |                  |                          |                     |
| Test Item       | Conducted power spectral density       |                  |                          |                     |
| Test Mode       | Mode 4: IEEE 802.11ac 40 MHz link mode |                  |                          |                     |
| Date of Test    | 09/04/2016                             |                  |                          |                     |
| Beamforming on  |                                        |                  |                          |                     |
| Frequency (MHz) | ANT-0                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5755            | -10.65                                 | 0.964            | -2.70                    | < 30                |
| 5795            | -11.72                                 | 0.964            | -3.76                    |                     |
| Frequency (MHz) | ANT-1                                  |                  |                          |                     |
|                 | Measurement (dBm/100 kHz)              | Duty Factor (dB) | Calculated (dBm/500 kHz) | Limit (dBm/500 kHz) |
| 5755            | -9.80                                  | 0.964            | -1.85                    | < 30                |
| 5795            | -11.13                                 | 0.964            | -3.17                    |                     |
| Frequency (MHz) | ANT-0+1                                |                  |                          |                     |
|                 | Calculated (dBm/500 kHz)               |                  |                          | Limit (dBm/500 kHz) |
| 5755            | 0.76                                   |                  |                          | < 30                |
| 5795            | -0.45                                  |                  |                          |                     |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



|                 |                                        |                  |                      |                 |
|-----------------|----------------------------------------|------------------|----------------------|-----------------|
| Model Number    | DWA-181                                |                  |                      |                 |
| Test Item       | Conducted power spectral density       |                  |                      |                 |
| Test Mode       | Mode 5: IEEE 802.11ac 80 MHz link mode |                  |                      |                 |
| Date of Test    | 09/04/2016                             |                  |                      |                 |
| Beamforming on  |                                        |                  |                      |                 |
| Frequency (MHz) | ANT-0                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5210            | -8.300                                 | 1.769            | -6.531               | < 11            |
| Frequency (MHz) | ANT-1                                  |                  |                      |                 |
|                 | Measurement (dBm/MHz)                  | Duty Factor (dB) | Calculated (dBm/MHz) | Limit (dBm/MHz) |
| 5210            | -9.225                                 | 1.769            | -7.456               | < 11            |
| Frequency (MHz) | ANT-0+1                                |                  |                      |                 |
|                 | Calculated (dBm/MHz)                   |                  |                      | Limit (dBm/MHz) |
| 5210            | -3.959                                 |                  |                      | < 11            |

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

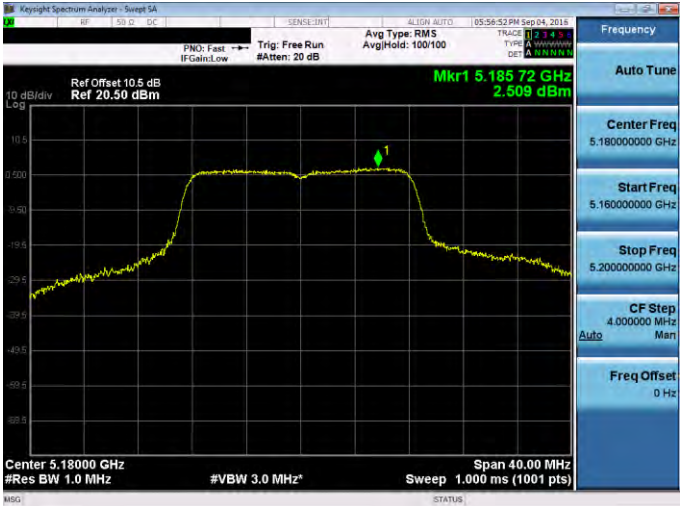
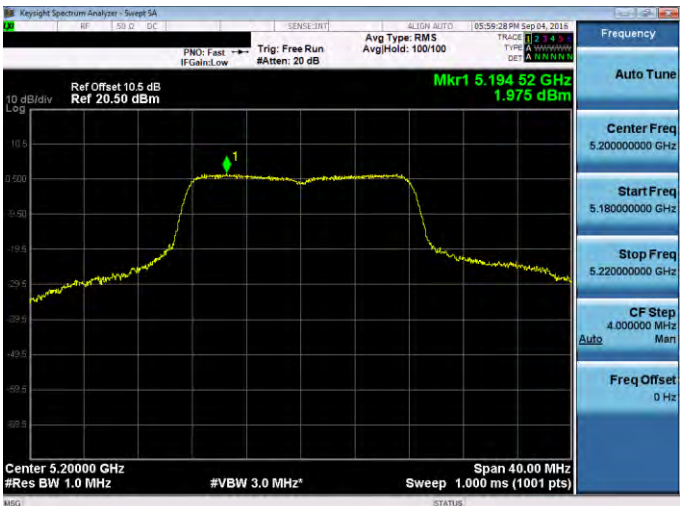
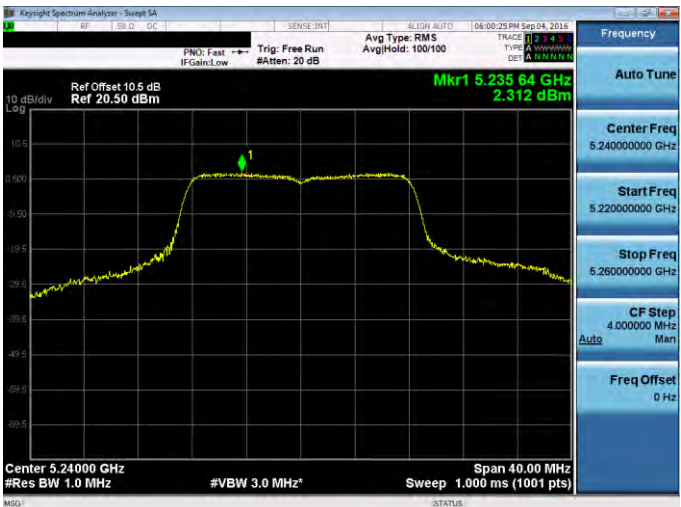


|                    |                                        |                     |                             |                    |
|--------------------|----------------------------------------|---------------------|-----------------------------|--------------------|
| Model Number       | DWA-181                                |                     |                             |                    |
| Test Item          | Conducted power spectral density       |                     |                             |                    |
| Test Mode          | Mode 5: IEEE 802.11ac 80 MHz link mode |                     |                             |                    |
| Date of Test       | 09/04/2016                             |                     |                             |                    |
| Beamforming on     |                                        |                     |                             |                    |
| Frequency<br>(MHz) | ANT-0                                  |                     |                             |                    |
|                    | Measurement<br>(dBm/100 kHz)           | Duty Factor<br>(dB) | Calculated<br>(dBm/500 kHz) | Limit<br>(dBm/MHz) |
| 5775               | -12.33                                 | 1.769               | -3.57                       | < 30               |
| Frequency<br>(MHz) | ANT-1                                  |                     |                             |                    |
|                    | Measurement<br>(dBm/100 kHz)           | Duty Factor<br>(dB) | Calculated<br>(dBm/500 kHz) | Limit<br>(dBm/MHz) |
| 5775               | -12.16                                 | 1.769               | -3.40                       | < 30               |
| Frequency<br>(MHz) | ANT-0+1                                |                     |                             |                    |
|                    | Calculated<br>(dBm/500 kHz)            |                     |                             | Limit<br>(dBm/MHz) |
| 5775               | -0.47                                  |                     |                             | < 30               |

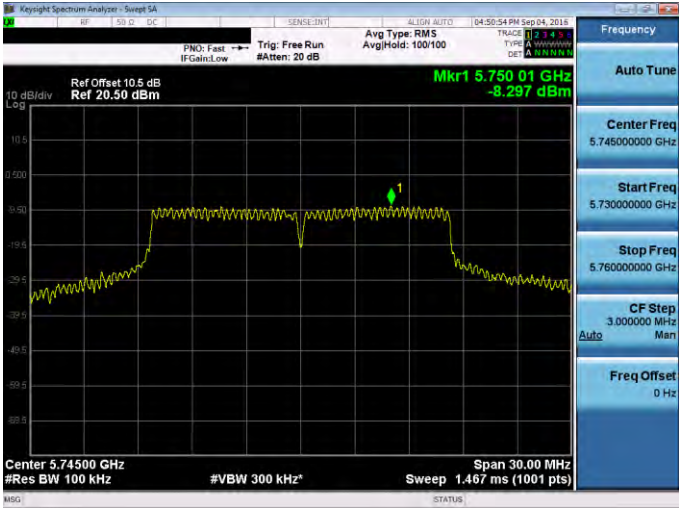
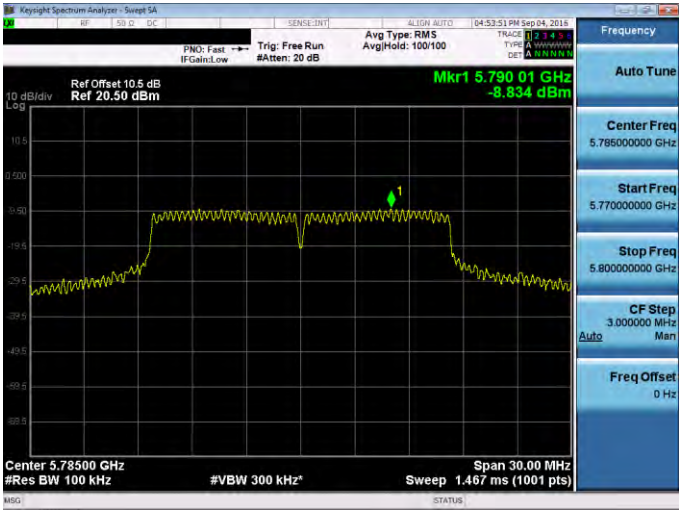
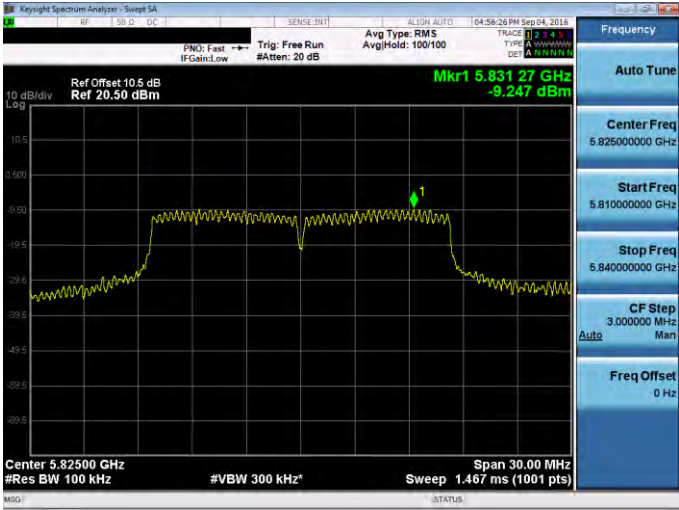
Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)

## Test Graphs

| Mode 2: IEEE 802.11a Link Mode_ ANT-0 |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| 5180 MHz                              |    |
| 5200 MHz                              |   |
| 5240 MHz                              |  |



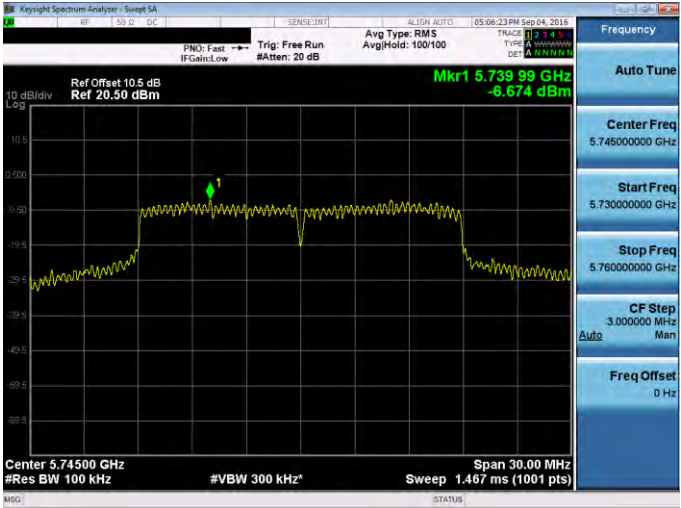
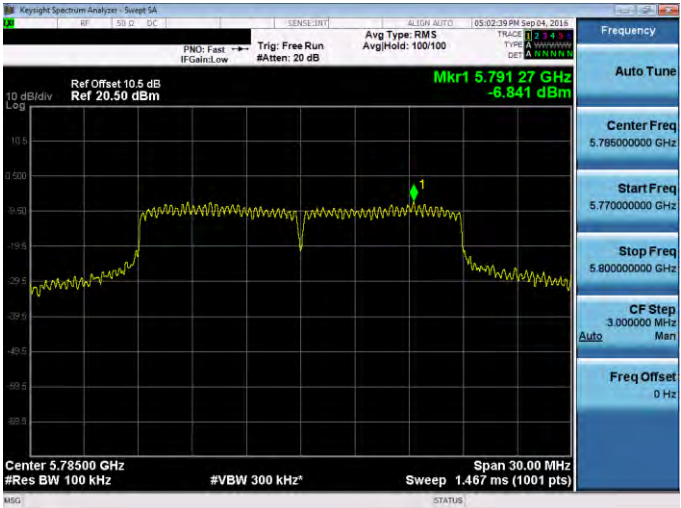
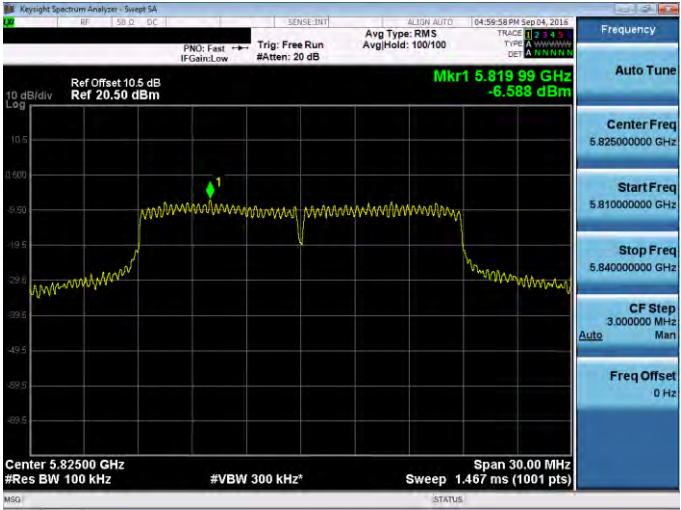
|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| Mode 2: IEEE 802.11a Link Mode_ ANT-0 |                                                                                      |
| 5745 MHz                              |    |
| 5785 MHz                              |   |
| 5825 MHz                              |  |

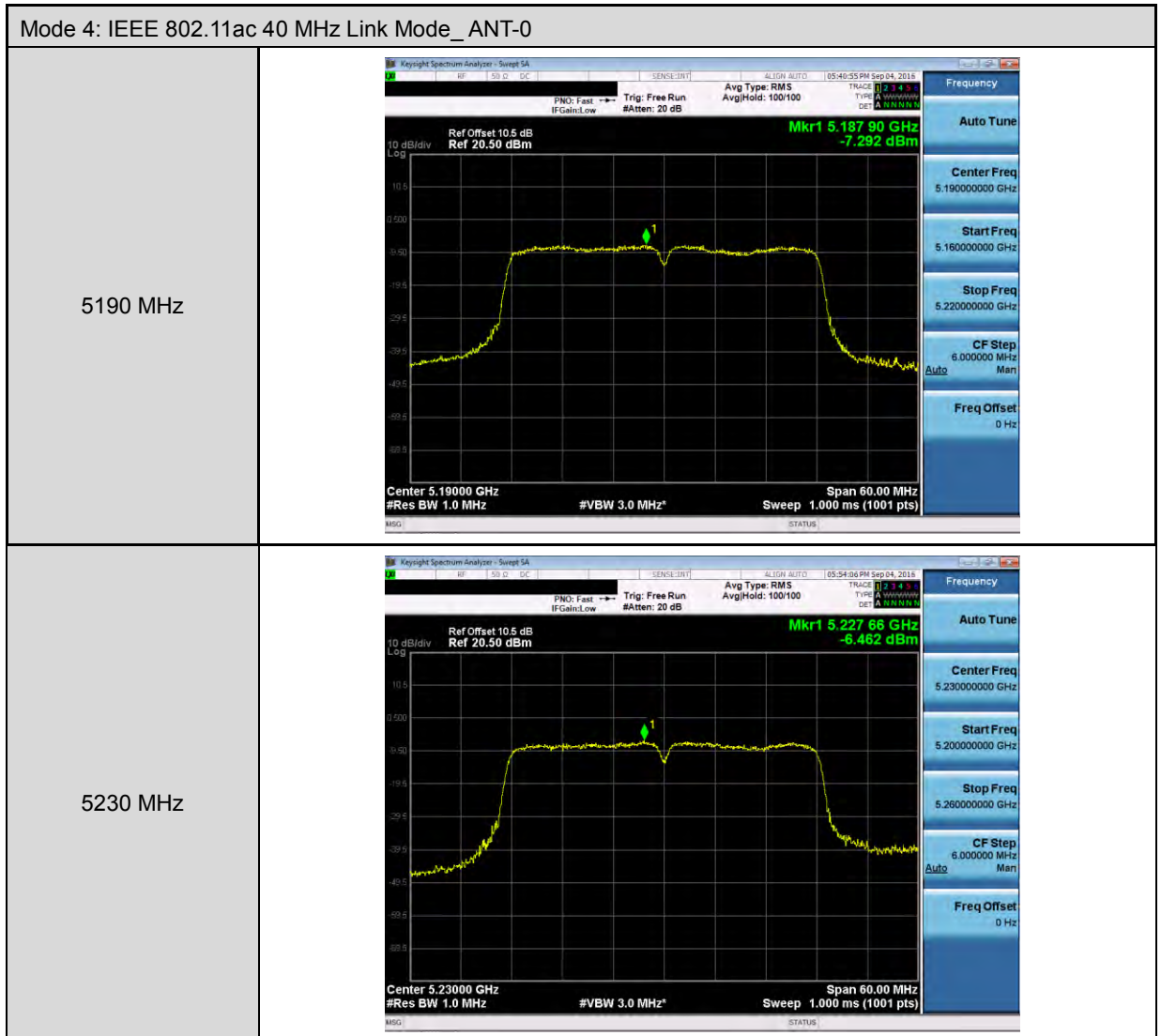


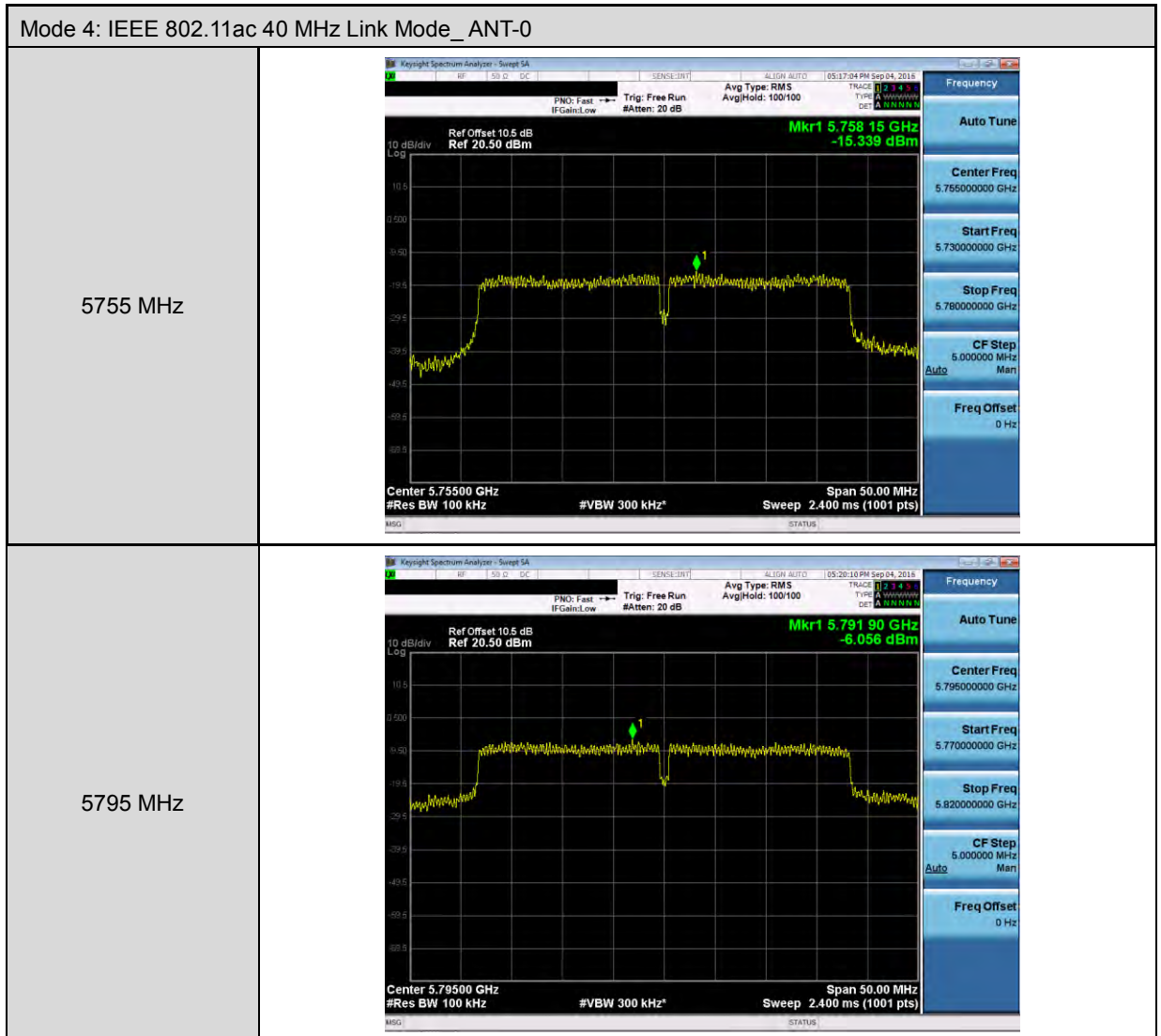


| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-0 |  |
|------------------------------------------------|--|
| 5180 MHz                                       |  |
| 5200 MHz                                       |  |
| 5240 MHz                                       |  |



|                                                |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-0 |                                                                                      |
| 5745 MHz                                       |    |
| 5785 MHz                                       |   |
| 5825 MHz                                       |  |

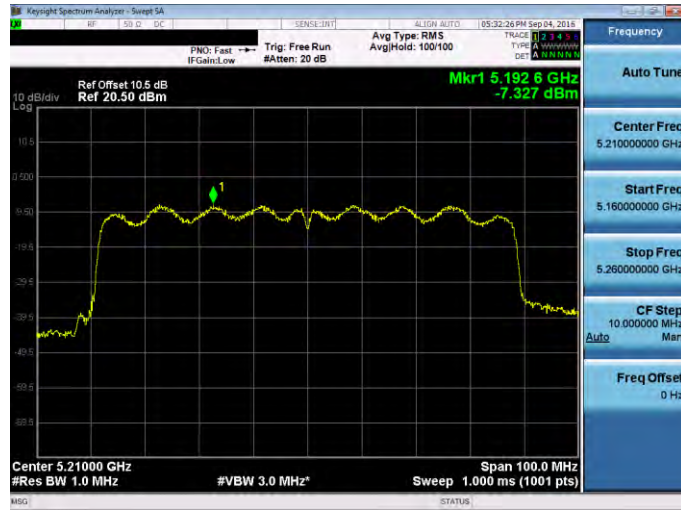






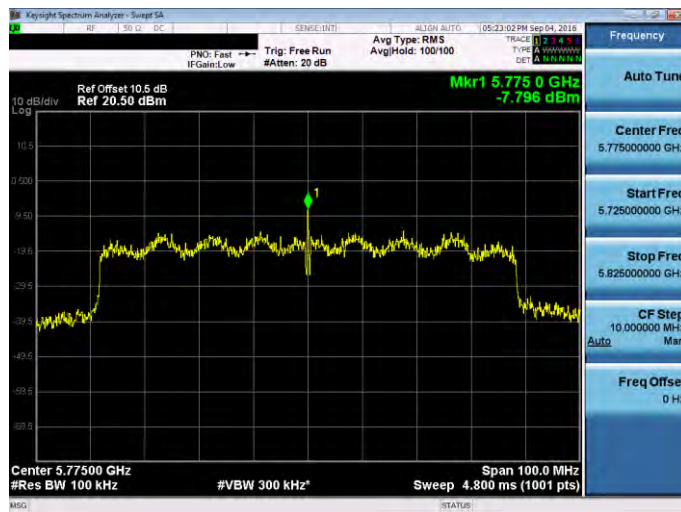
Mode 5: IEEE 802.11ac 80 MHz Link Mode \_ ANT-0

5210 MHz



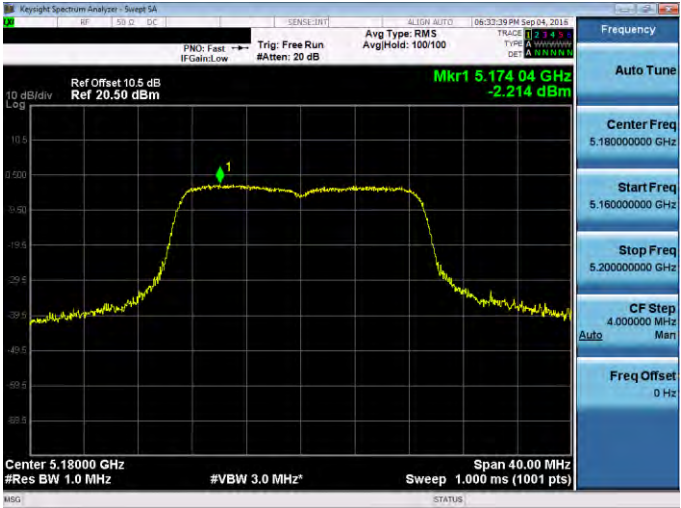
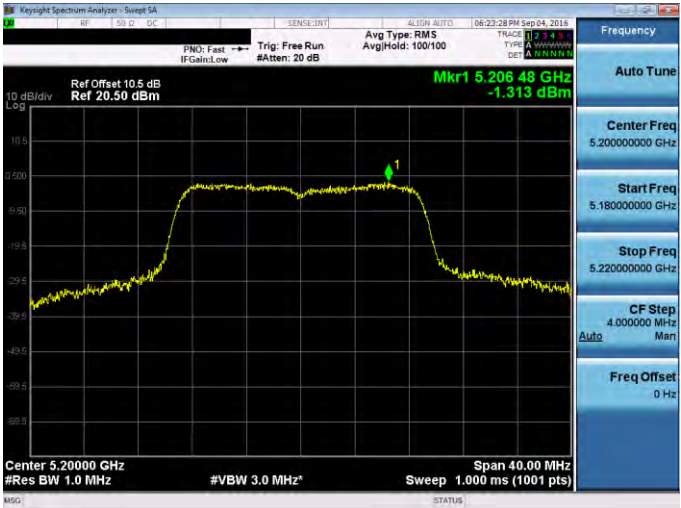
Mode 5: IEEE 802.11ac 80 MHz Link Mode \_ ANT-0

5775 MHz

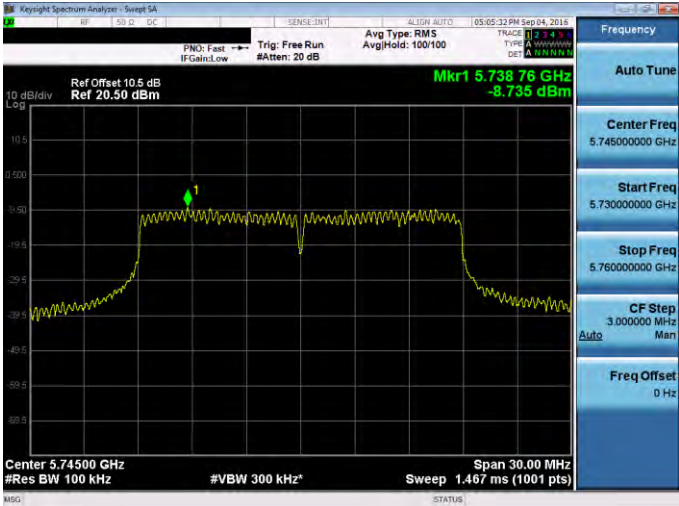
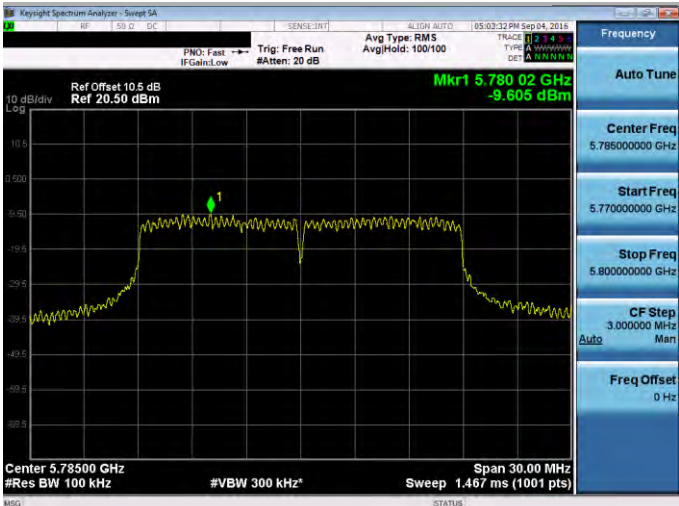
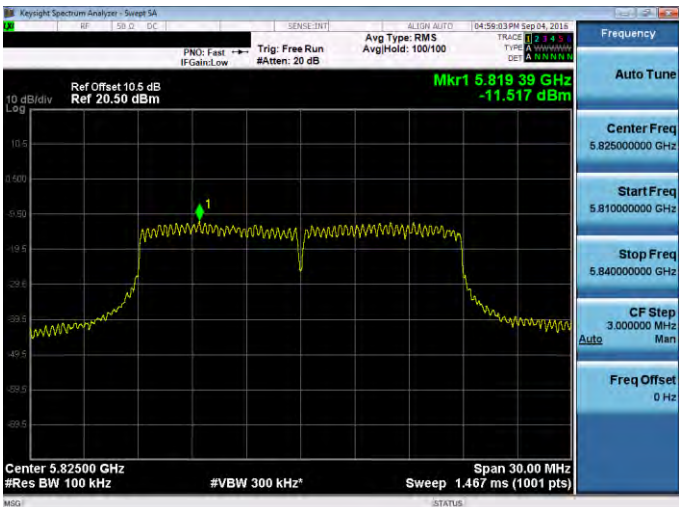




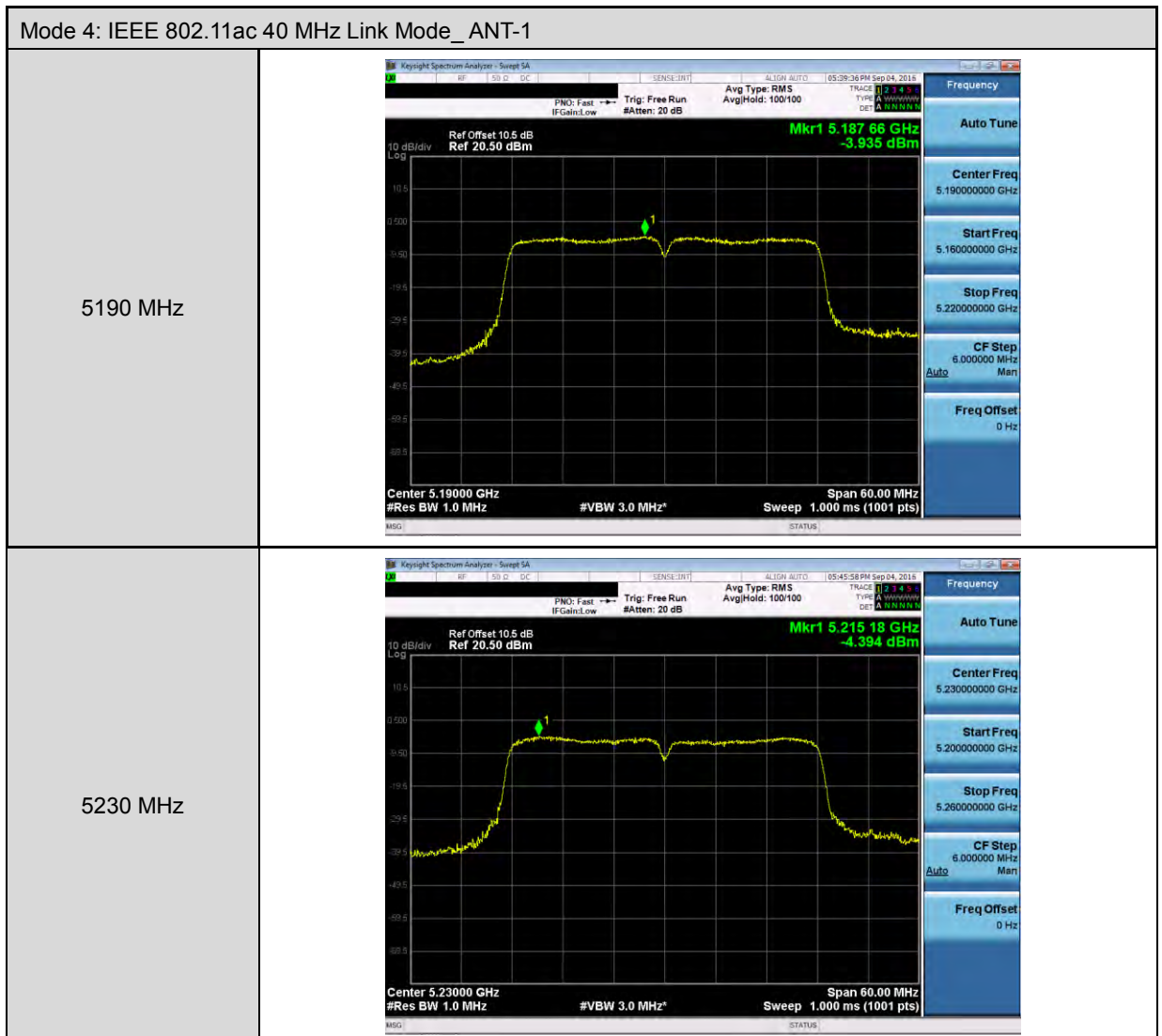


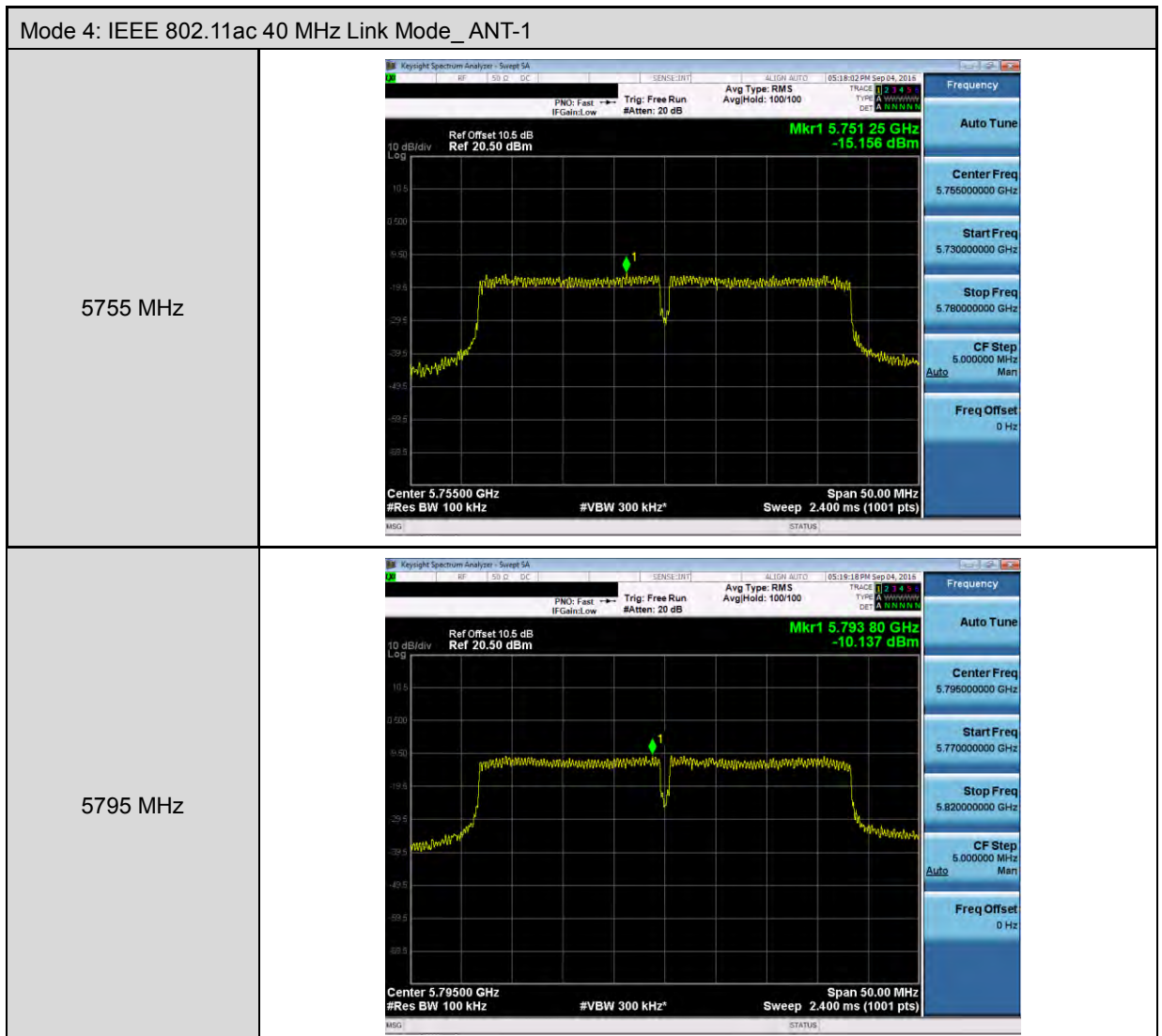
| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-1 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| 5180 MHz                                       |    |
| 5200 MHz                                       |   |
| 5240 MHz                                       |  |



| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-1 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| 5745 MHz                                       |    |
| 5785 MHz                                       |   |
| 5825 MHz                                       |  |



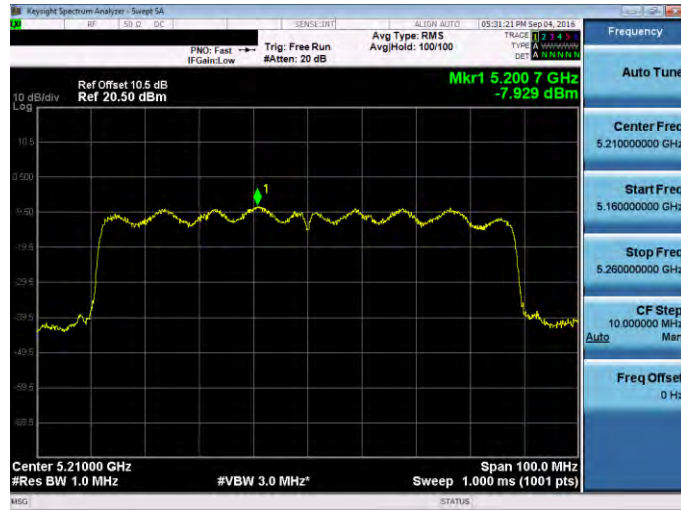






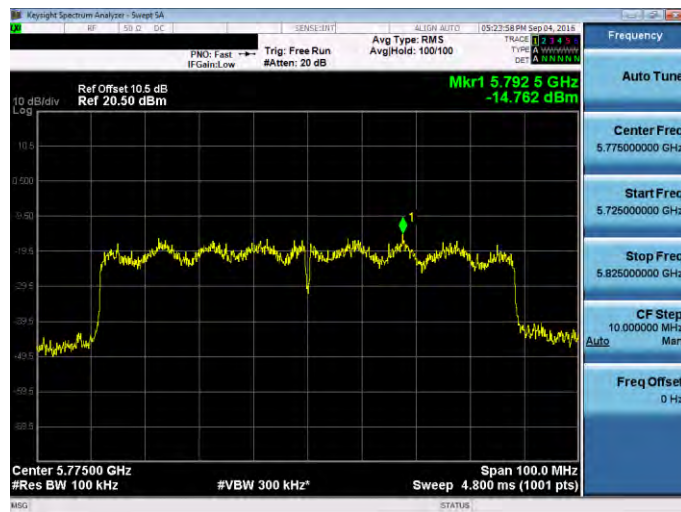
Mode 5: IEEE 802.11ac 80 MHz Link Mode \_ ANT-1

5210 MHz

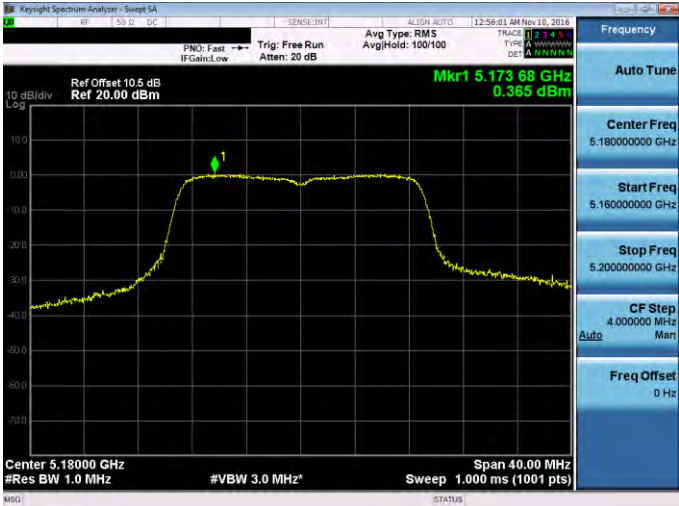
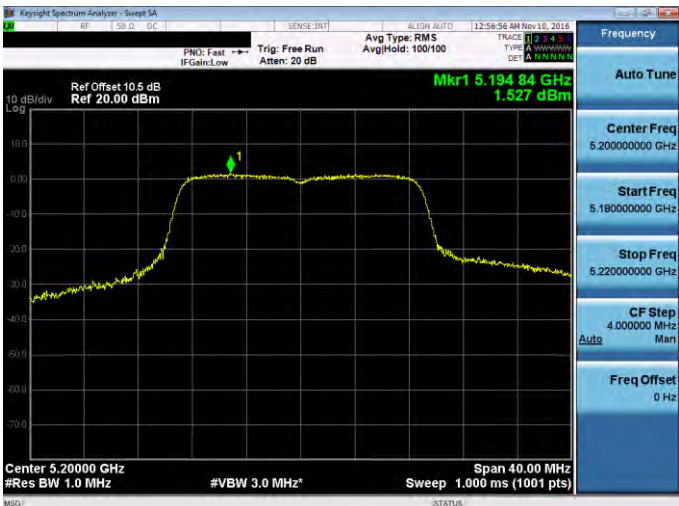
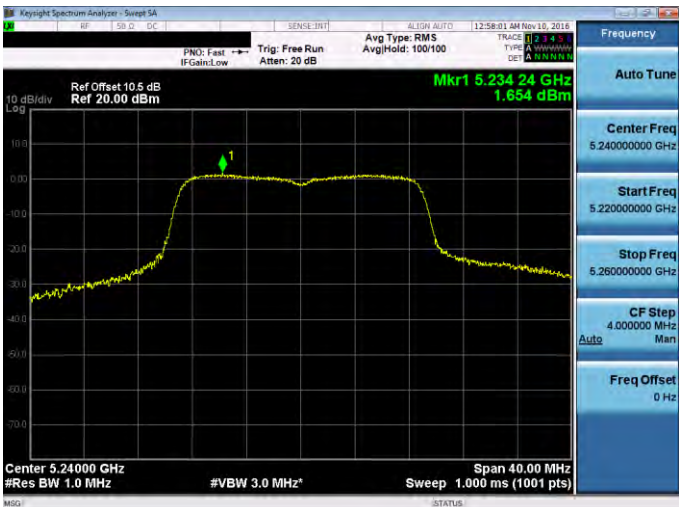


Mode 5: IEEE 802.11ac 80 MHz Link Mode \_ ANT-1

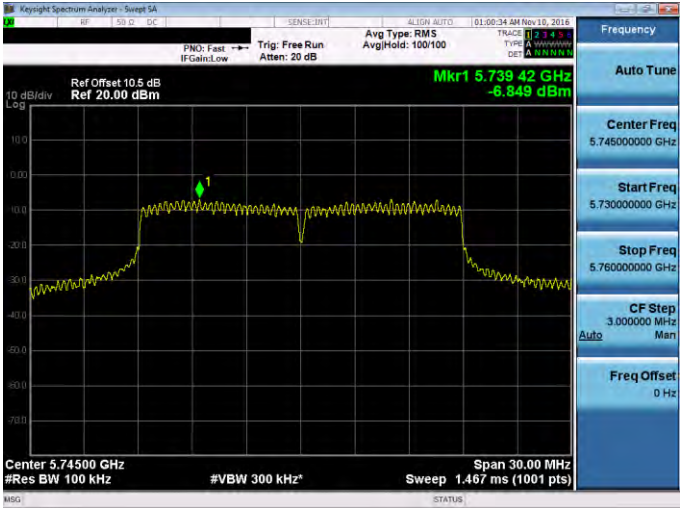
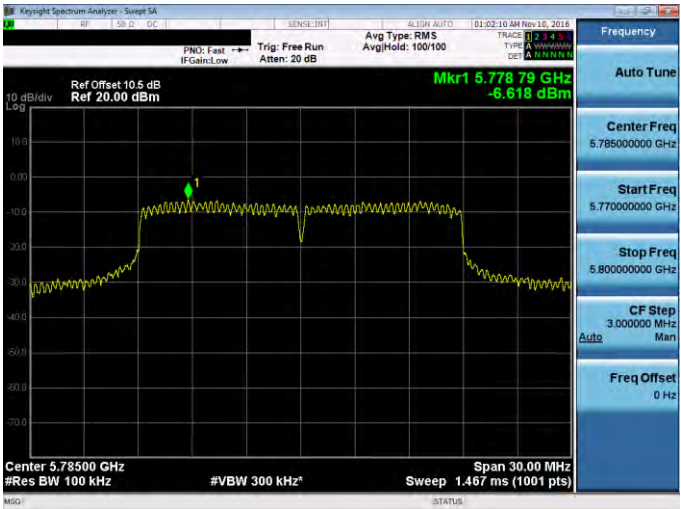
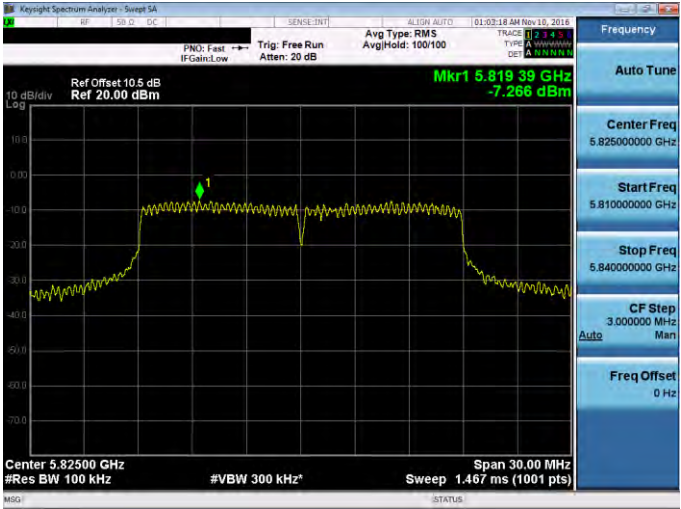
5775 MHz





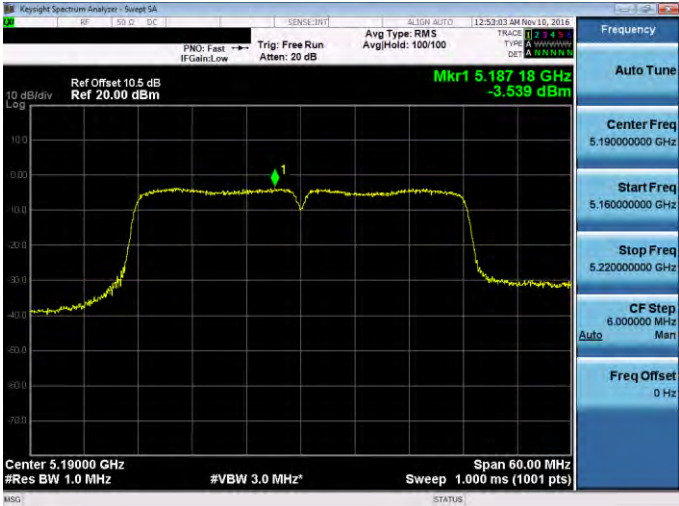
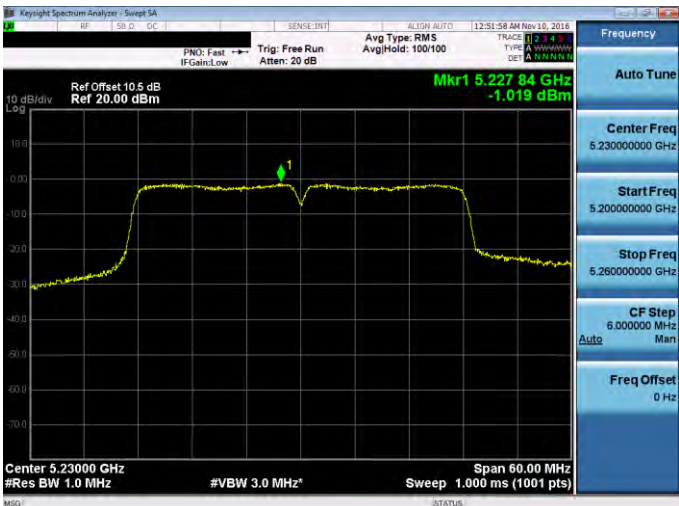
| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-0 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| Beamforming on                                 |                                                                                      |
| 5180 MHz                                       |    |
| 5200 MHz                                       |   |
| 5240 MHz                                       |  |



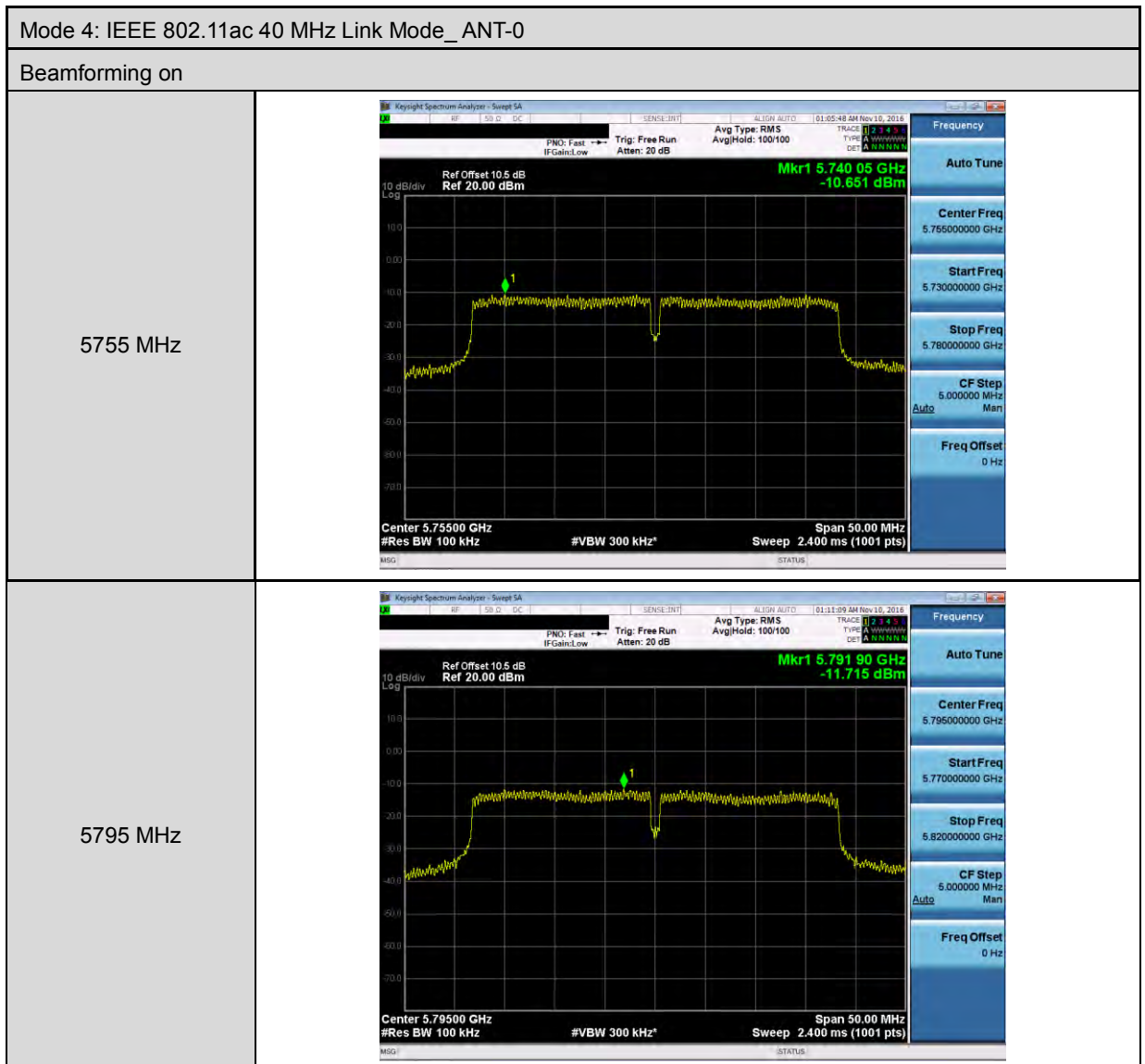
| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-0 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| Beamforming on                                 |                                                                                      |
| 5745 MHz                                       |    |
| 5785 MHz                                       |   |
| 5825 MHz                                       |  |

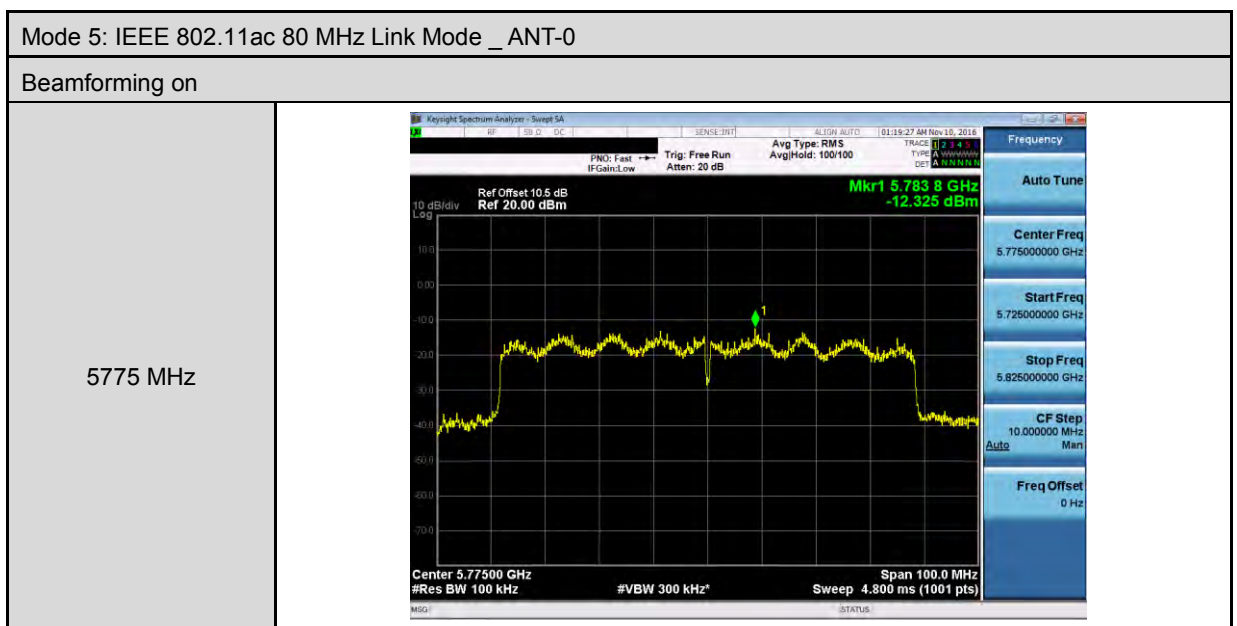
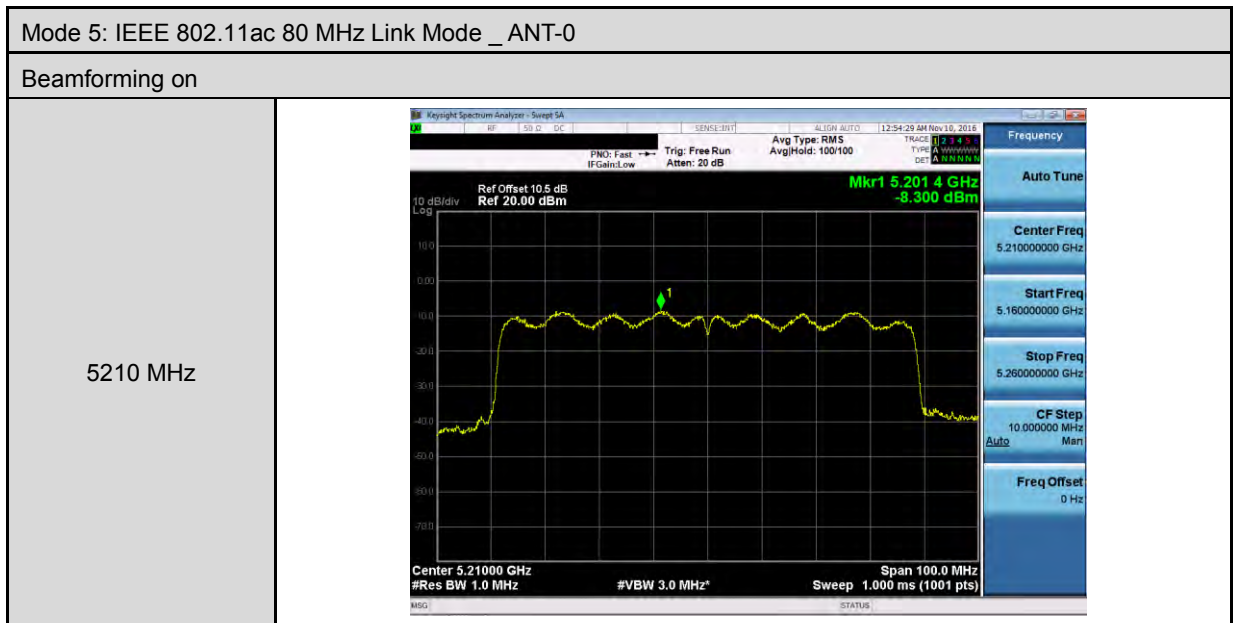




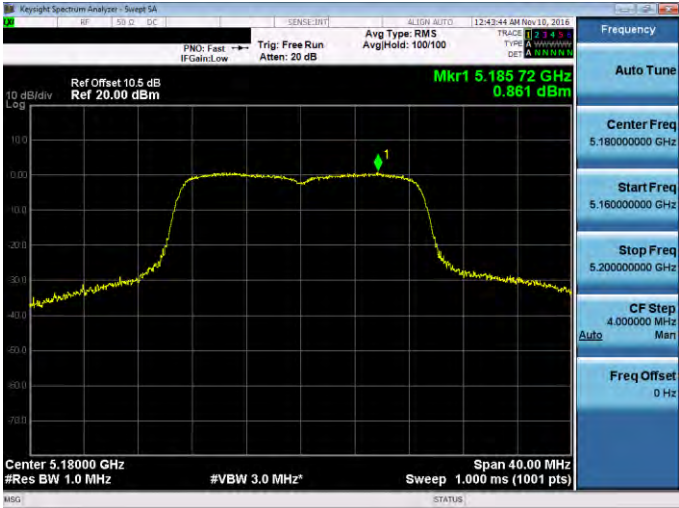
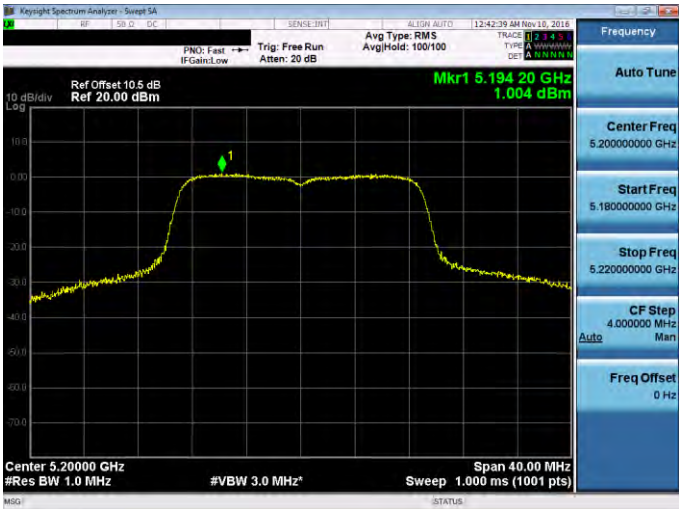
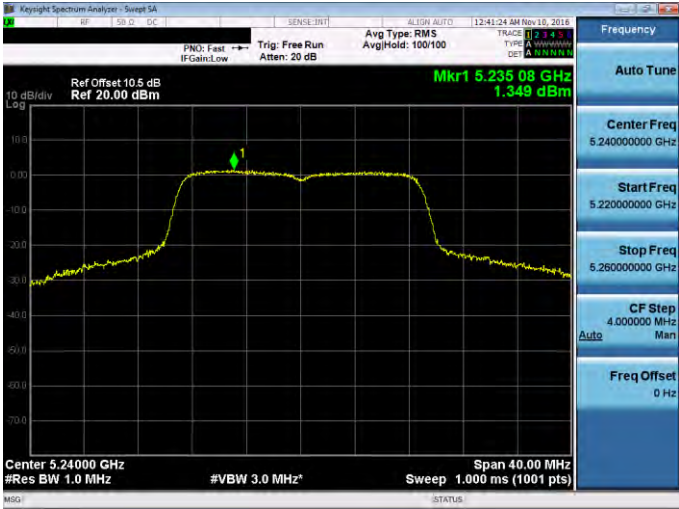
| Mode 4: IEEE 802.11ac 40 MHz Link Mode_ ANT-0 |                                                                                     |
|-----------------------------------------------|-------------------------------------------------------------------------------------|
| Beamforming on                                |                                                                                     |
| 5190 MHz                                      |   |
| 5230 MHz                                      |  |



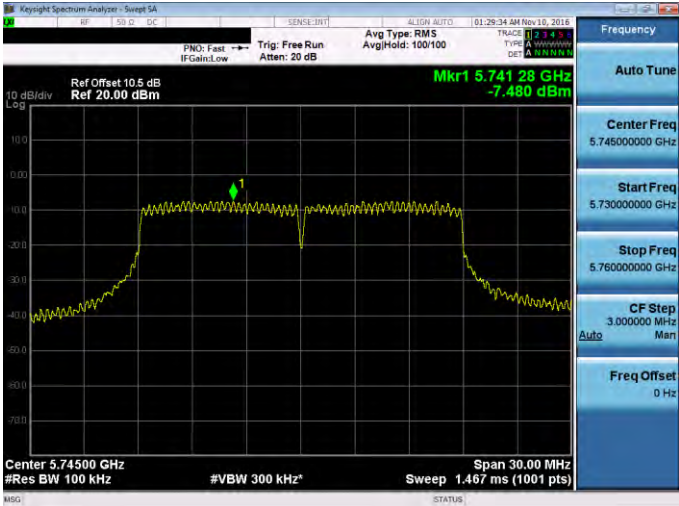
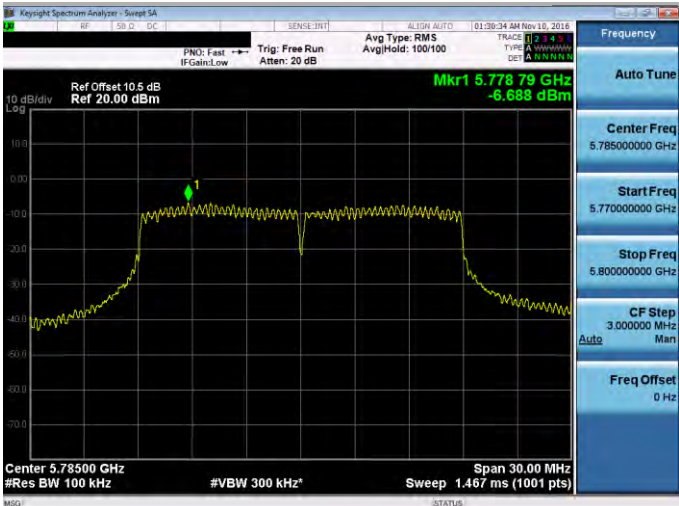
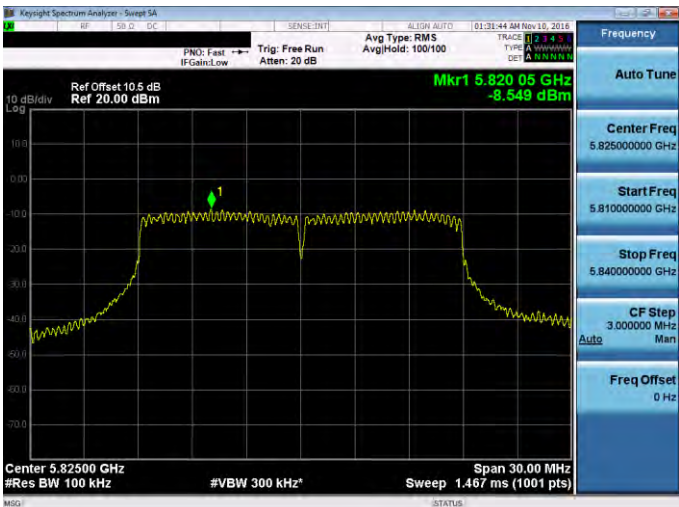


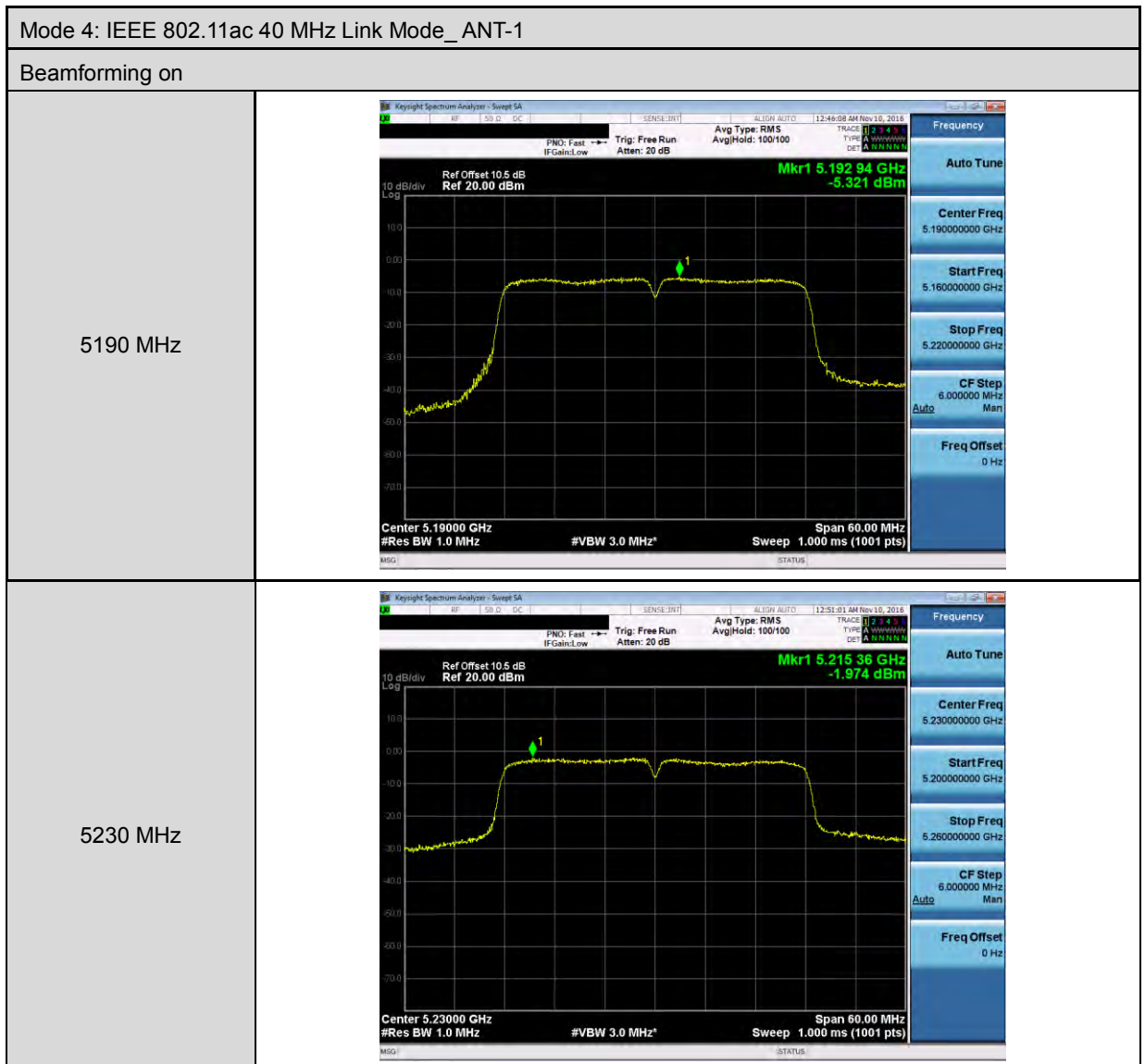




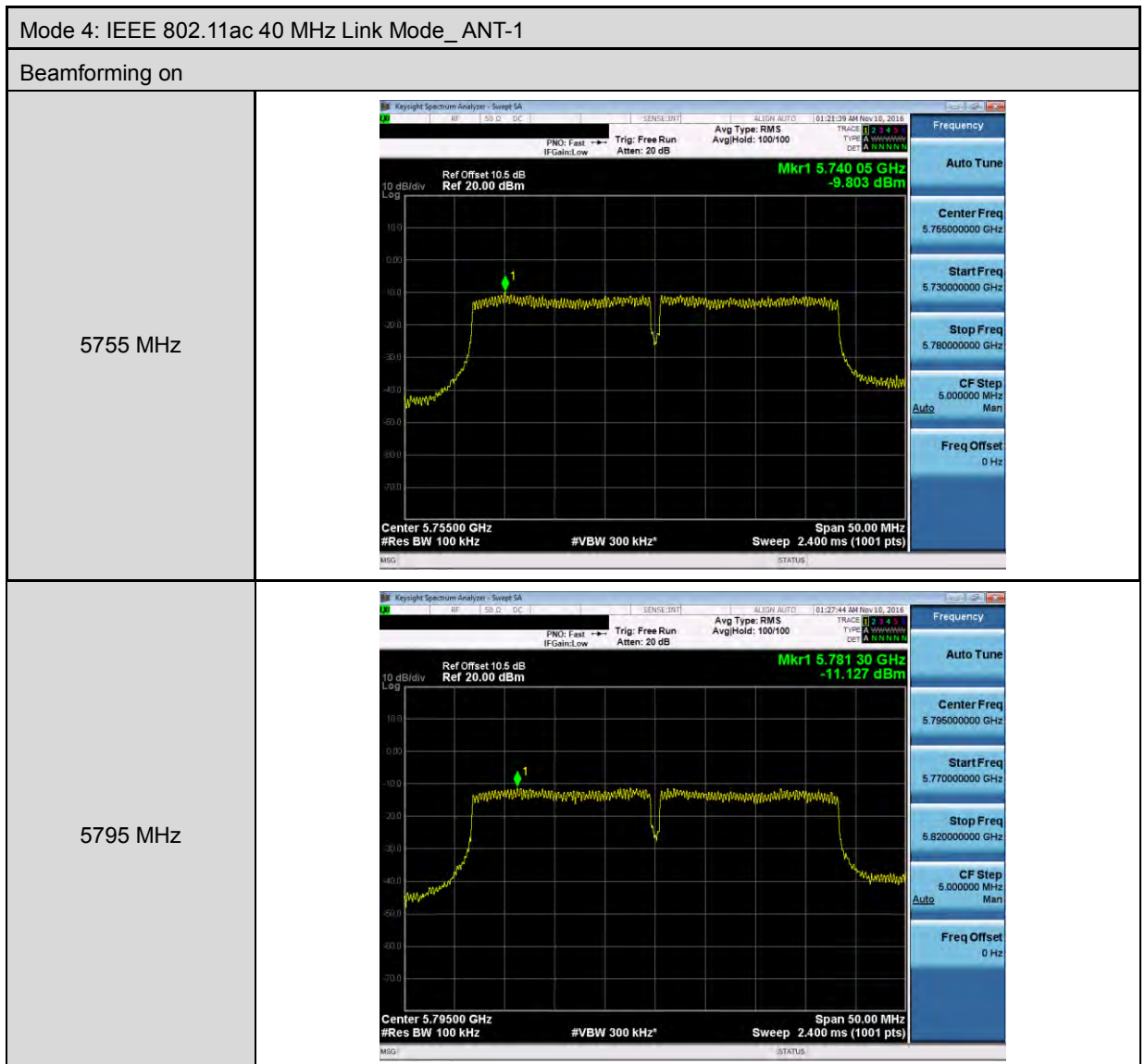
| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-1 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| Beamforming on                                 |                                                                                      |
| 5180 MHz                                       |    |
| 5200 MHz                                       |   |
| 5240 MHz                                       |  |



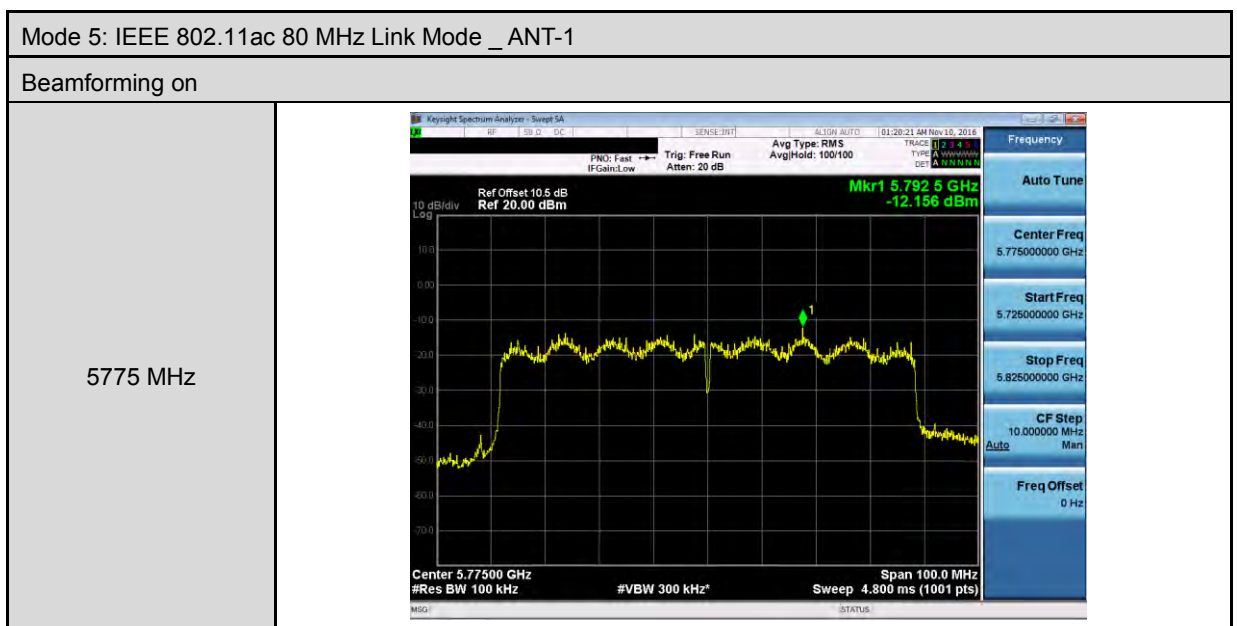
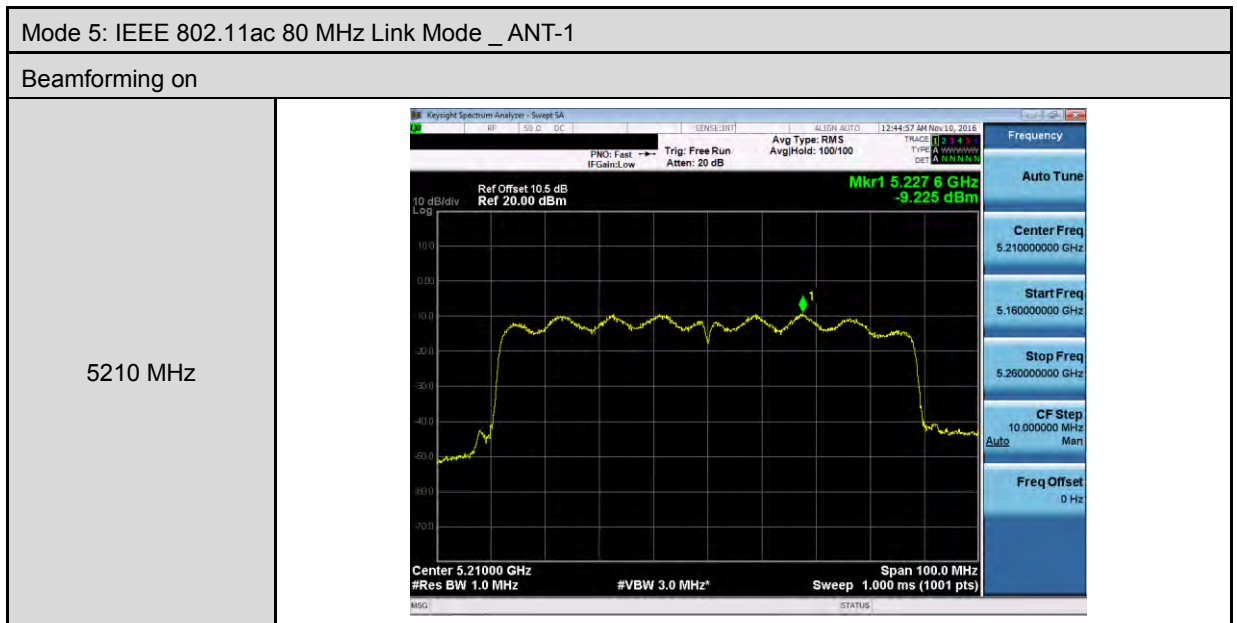
| Mode 3: IEEE 802.11ac 20 MHz Link Mode _ ANT-1 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| Beamforming on                                 |                                                                                      |
| 5745 MHz                                       |    |
| 5785 MHz                                       |   |
| 5825 MHz                                       |  |













## 5.7. Frequency Stability Measurement

### Temperature Variations

| Model Number | DWA-181             |               |                      |                  |                 |                    |
|--------------|---------------------|---------------|----------------------|------------------|-----------------|--------------------|
| Test Item    | Frequency Stability |               |                      |                  |                 |                    |
| Date of Test | 07/29/2016          |               |                      |                  |                 |                    |
| Frequency    | Temp. (°C)          | Voltage (Vac) | Measured Freq. (MHz) | Delta Freq. (Hz) | Tolerance (ppm) | Result (Pass/Fail) |
| 5200 MHz     | 0                   | 120           | 5200.0103            | 10300            | 1.981           | Pass               |
|              | 10                  |               | 5200.0102            | 10200            | 1.962           | Pass               |
|              | 20                  |               | 5200.0096            | 9600             | 1.846           | Pass               |
|              | 30                  |               | 5200.0018            | 1800             | 0.346           | Pass               |
|              | 40                  |               | 5200.0082            | 8200             | 1.577           | Pass               |
| 5785 MHz     | 0                   | 120           | 5785.0233            | 23300            | 4.028           | Pass               |
|              | 10                  |               | 5785.0175            | 17500            | 3.025           | Pass               |
|              | 20                  |               | 5785.0144            | 14400            | 2.489           | Pass               |
|              | 30                  |               | 5785.0097            | 9700             | 1.677           | Pass               |
|              | 40                  |               | 5785.0104            | 10400            | 1.798           | Pass               |

### Voltage Variations

| Model Number | DWA-181             |               |                      |                  |                 |                    |
|--------------|---------------------|---------------|----------------------|------------------|-----------------|--------------------|
| Test Item    | Frequency Stability |               |                      |                  |                 |                    |
| Date of Test | 07/29/2016          |               |                      |                  |                 |                    |
| Frequency    | Temp. (°C)          | Voltage (Vac) | Measured Freq. (MHz) | Delta Freq. (Hz) | Tolerance (ppm) | Result (Pass/Fail) |
| 5200 MHz     | 20                  | 138.00        | 5200.0182            | 18200            | 3.500           | Pass               |
|              |                     | 120.00        | 5200.0096            | 9600             | 1.846           | Pass               |
|              |                     | 102.00        | 5200.0046            | 4600             | 0.885           | Pass               |
| 5785 MHz     | 20                  | 138.00        | 5785.0162            | 16200            | 2.800           | Pass               |
|              |                     | 120.00        | 5785.0144            | 14400            | 2.489           | Pass               |
|              |                     | 102.00        | 5785.0057            | 5700             | 0.985           | Pass               |

Note: The manufacturer's frequency stability specification is better than 20ppm.



#### Temperature Variations

|                |                     |               |                      |                  |                 |                    |
|----------------|---------------------|---------------|----------------------|------------------|-----------------|--------------------|
| Model Number   | DWA-181             |               |                      |                  |                 |                    |
| Test Item      | Frequency Stability |               |                      |                  |                 |                    |
| Date of Test   | 07/29/2016          |               |                      |                  |                 |                    |
| Beamforming on |                     |               |                      |                  |                 |                    |
| Frequency      | Temp. (°C)          | Voltage (Vac) | Measured Freq. (MHz) | Delta Freq. (Hz) | Tolerance (ppm) | Result (Pass/Fail) |
| 5200 MHz       | 0                   | 120           | 5200.0103            | 10300            | 1.981           | Pass               |
|                | 10                  |               | 5200.0102            | 10200            | 1.962           | Pass               |
|                | 20                  |               | 5200.0096            | 9600             | 1.846           | Pass               |
|                | 30                  |               | 5200.0018            | 1800             | 0.346           | Pass               |
|                | 40                  |               | 5200.0082            | 8200             | 1.577           | Pass               |
| 5785 MHz       | 0                   | 120           | 5785.0233            | 23300            | 4.028           | Pass               |
|                | 10                  |               | 5785.0175            | 17500            | 3.025           | Pass               |
|                | 20                  |               | 5785.0144            | 14400            | 2.489           | Pass               |
|                | 30                  |               | 5785.0097            | 9700             | 1.677           | Pass               |
|                | 40                  |               | 5785.0104            | 10400            | 1.798           | Pass               |

#### Voltage Variations

|                |                     |               |                      |                  |                 |                    |
|----------------|---------------------|---------------|----------------------|------------------|-----------------|--------------------|
| Model Number   | DWA-181             |               |                      |                  |                 |                    |
| Test Item      | Frequency Stability |               |                      |                  |                 |                    |
| Date of Test   | 07/29/2016          |               |                      |                  |                 |                    |
| Beamforming on |                     |               |                      |                  |                 |                    |
| Frequency      | Temp. (°C)          | Voltage (Vac) | Measured Freq. (MHz) | Delta Freq. (Hz) | Tolerance (ppm) | Result (Pass/Fail) |
| 5200 MHz       | 20                  | 138.00        | 5200.0182            | 18200            | 3.500           | Pass               |
|                |                     | 120.00        | 5200.0096            | 9600             | 1.846           | Pass               |
|                |                     | 102.00        | 5200.0046            | 4600             | 0.885           | Pass               |
| 5785 MHz       | 20                  | 138.00        | 5785.0162            | 16200            | 2.800           | Pass               |
|                |                     | 120.00        | 5785.0144            | 14400            | 2.489           | Pass               |
|                |                     | 102.00        | 5785.0057            | 5700             | 0.985           | Pass               |

Note: The manufacturer's frequency stability specification is better than 20ppm.