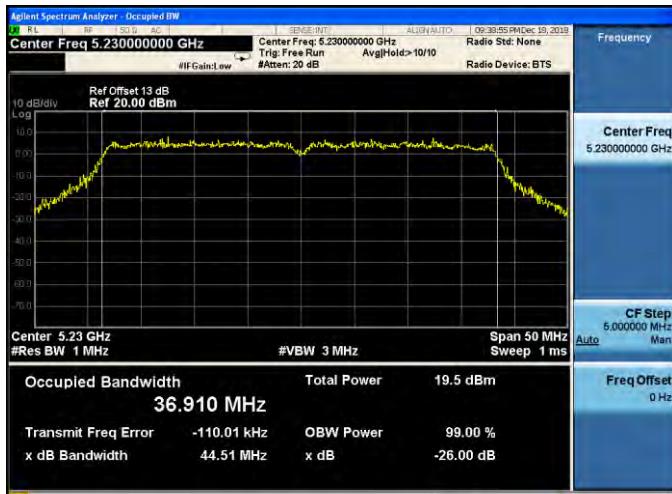
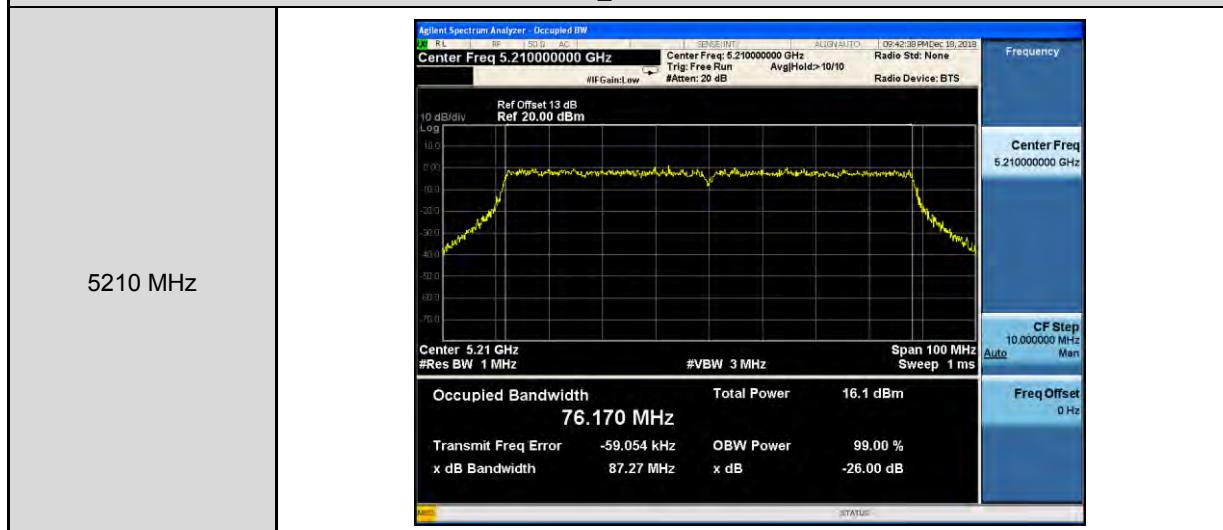


Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3

5190 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.190000000 GHz</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>Occupied Bandwidth 36.783 MHz</p> <p>Total Power 17.9 dBm</p> <p>Transmit Freq Error -51.998 kHz</p> <p>#Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 50 MHz</p> <p>Sweep 1 ms</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 5.190000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>
5230 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.230000000 GHz</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>Occupied Bandwidth 36.910 MHz</p> <p>Total Power 19.5 dBm</p> <p>Transmit Freq Error -110.01 kHz</p> <p>#Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 50 MHz</p> <p>Sweep 1 ms</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 5.230000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3



5.5. 6 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5745	16380	16320	16350	16330	≥ 500
5785	16330	16320	16330	16340	≥ 500
5825	16350	16350	16360	16370	≥ 500

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5745	17730	17720	17660	17760	≥ 500
5785	17730	17690	17720	17750	≥ 500
5825	17770	17750	17730	17740	≥ 500

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5755	36450	36490	36500	36490	≥ 500
5795	36500	36450	36500	36410	≥ 500

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5775	76510	76480	76560	76470	≥ 500

Beamforming on

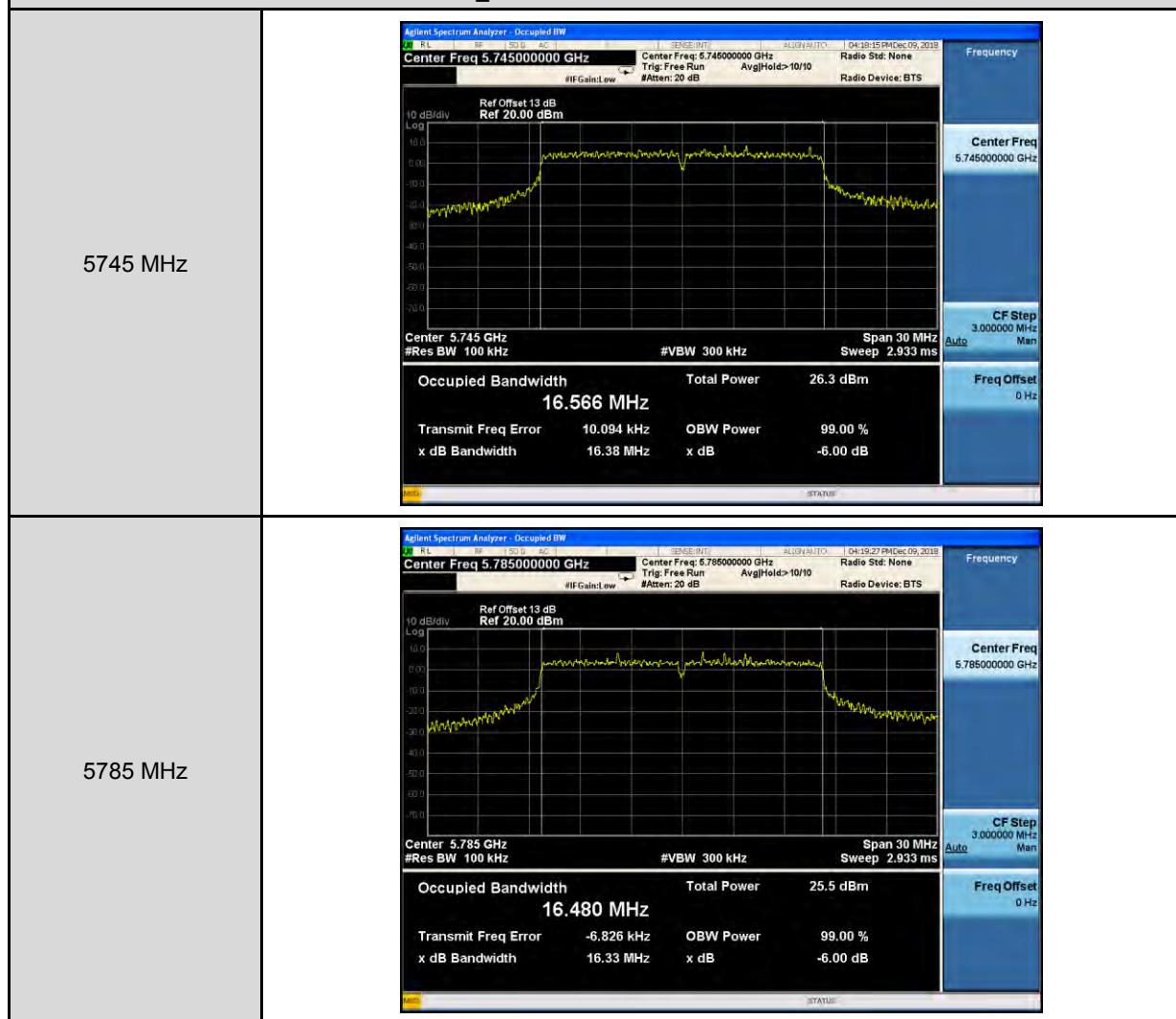
Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5745	17740	17700	17670	17730	≥ 500
5785	17780	17750	17740	17740	≥ 500
5825	17720	17710	17730	17740	≥ 500

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5755	36410	36480	36480	36490	≥ 500
5795	36510	36500	36480	36480	≥ 500

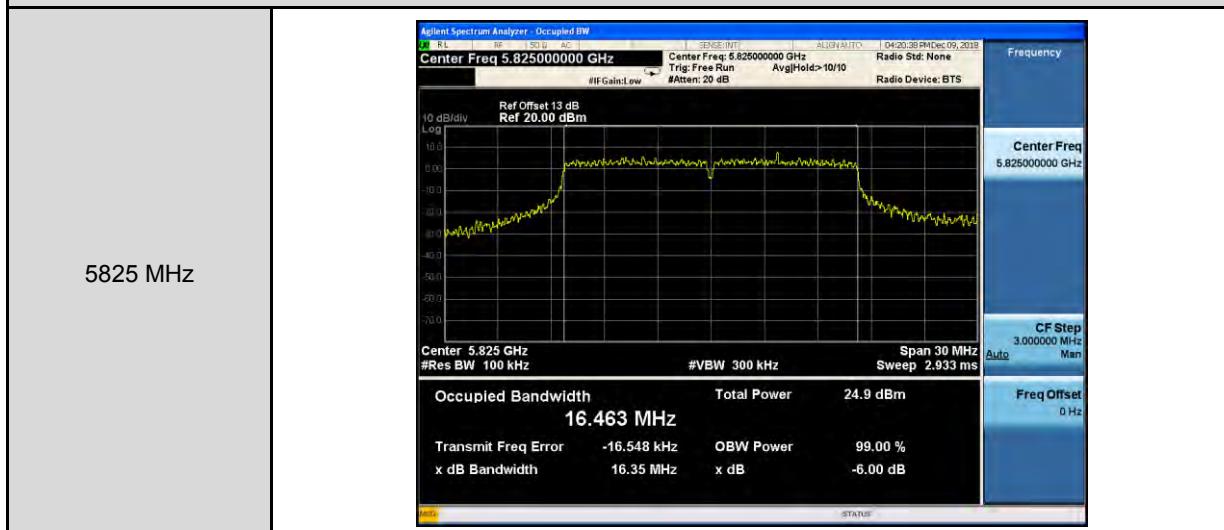
Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5775	76460	76540	76510	76510	≥ 500

■ Test Graphs

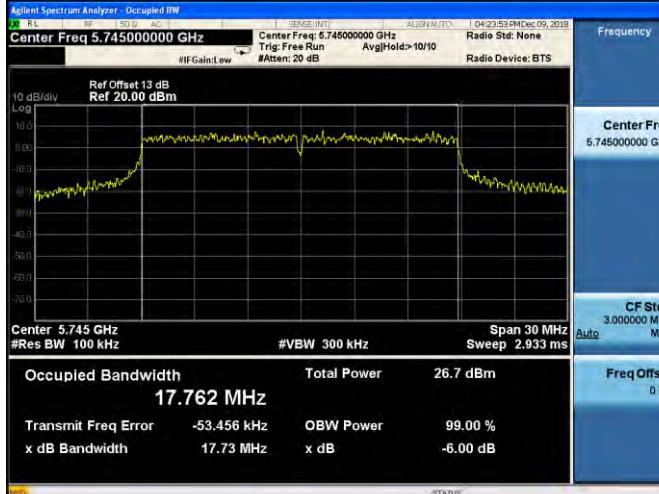
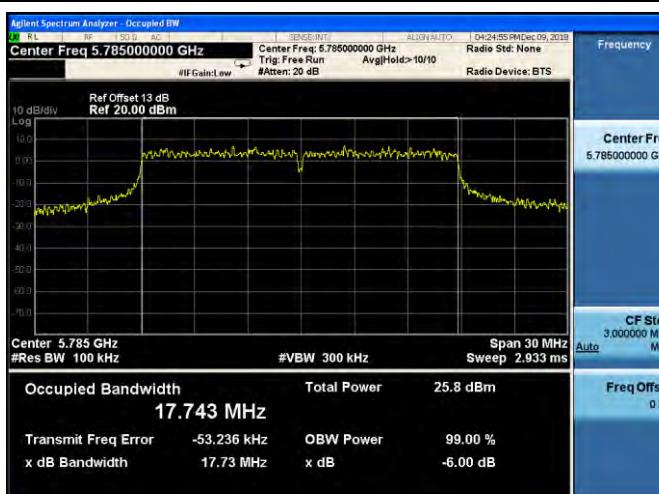
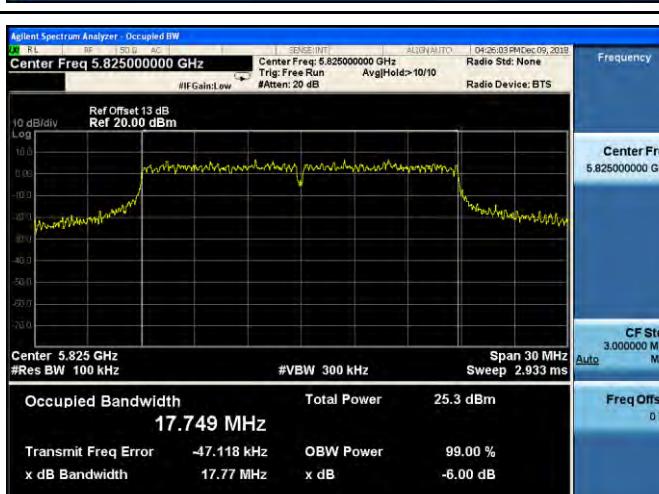
Mode 2: IEEE 802.11a Continuous TX mode_ANT-0



Mode 2: IEEE 802.11a Continuous TX mode_ANT-0



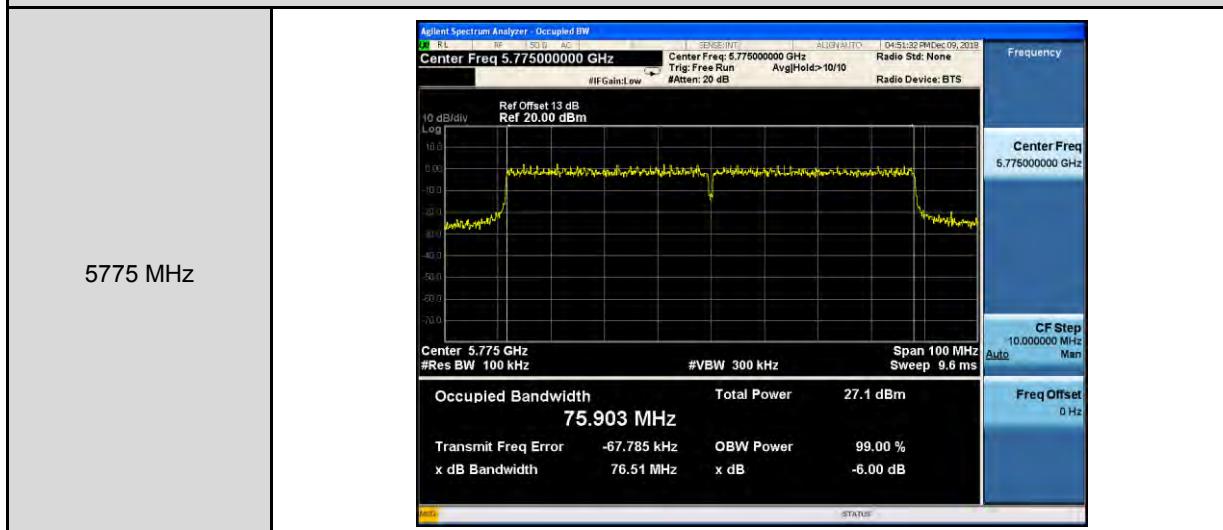
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

5745 MHz	 <p>Occupied Bandwidth 17.762 MHz Transmit Freq Error -53.456 kHz x dB Bandwidth 17.73 MHz</p> <p>Total Power 26.7 dBm OBW Power 99.00 % x dB -6.00 dB</p>
5785 MHz	 <p>Occupied Bandwidth 17.743 MHz Transmit Freq Error -53.236 kHz x dB Bandwidth 17.73 MHz</p> <p>Total Power 25.8 dBm OBW Power 99.00 % x dB -6.00 dB</p>
5825 MHz	 <p>Occupied Bandwidth 17.749 MHz Transmit Freq Error -47.118 kHz x dB Bandwidth 17.77 MHz</p> <p>Total Power 25.3 dBm OBW Power 99.00 % x dB -6.00 dB</p>

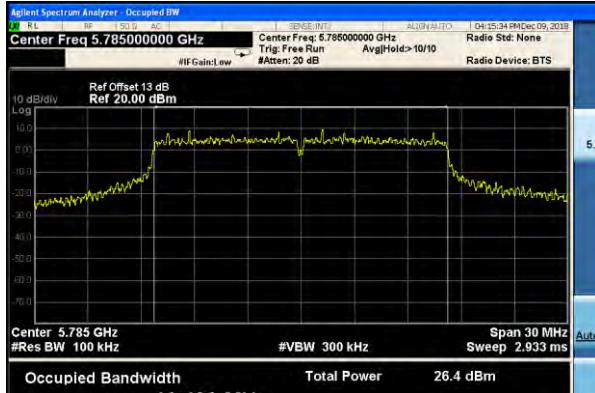
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0



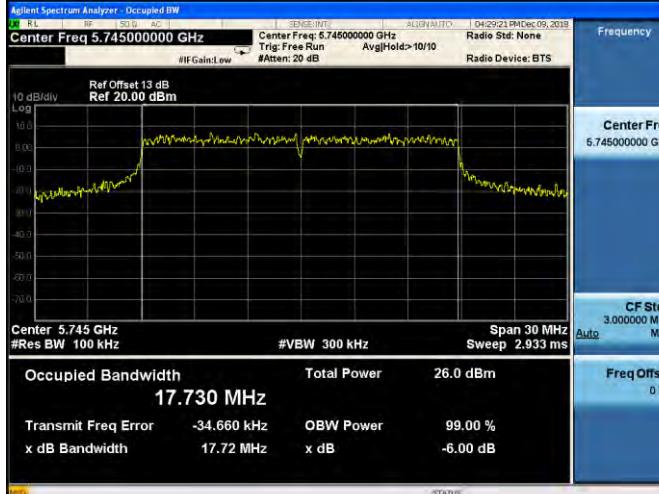
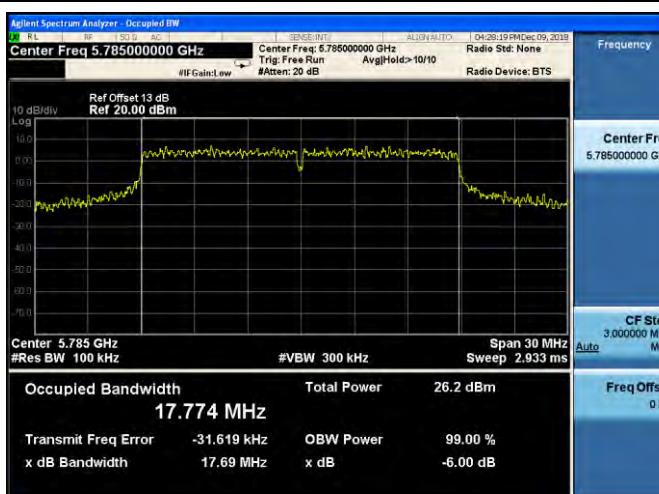
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-0



Mode 2: IEEE 802.11a Continuous TX mode_ANT-1

5745 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.745000000 GHz</p> <p>CF Step 3.00000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>  <p>Occupied Bandwidth: 16.484 MHz</p> <p>Total Power: 26.2 dBm</p> <p>Transmit Freq Error: -402 Hz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.32 MHz</p> <p>x dB: -6.00 dB</p>
5785 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.785000000 GHz</p> <p>CF Step 3.00000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>  <p>Occupied Bandwidth: 16.490 MHz</p> <p>Total Power: 26.4 dBm</p> <p>Transmit Freq Error: -6.322 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.32 MHz</p> <p>x dB: -6.00 dB</p>
5825 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.825000000 GHz</p> <p>CF Step 3.00000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>  <p>Occupied Bandwidth: 16.809 MHz</p> <p>Total Power: 26.7 dBm</p> <p>Transmit Freq Error: 36.634 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.35 MHz</p> <p>x dB: -6.00 dB</p>

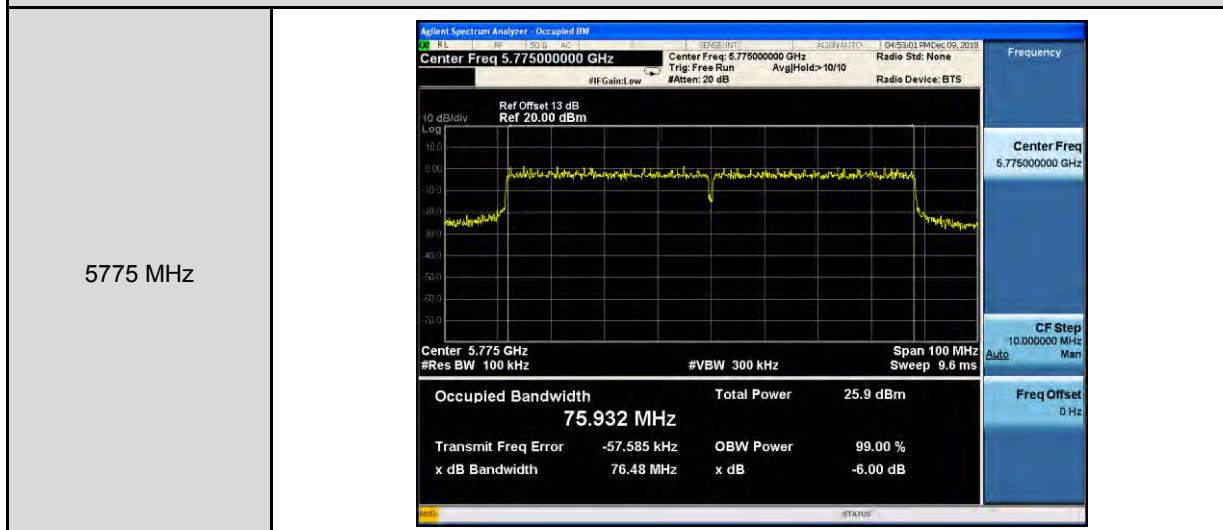
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1

5745 MHz	 <p>Occupied Bandwidth 17.730 MHz</p> <table border="1"> <tr> <td>Transmit Freq Error</td> <td>-34.660 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.72 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Transmit Freq Error	-34.660 kHz	OBW Power	99.00 %	x dB Bandwidth	17.72 MHz	x dB	-6.00 dB
Transmit Freq Error	-34.660 kHz	OBW Power	99.00 %						
x dB Bandwidth	17.72 MHz	x dB	-6.00 dB						
5785 MHz	 <p>Occupied Bandwidth 17.774 MHz</p> <table border="1"> <tr> <td>Transmit Freq Error</td> <td>-31.619 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.69 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Transmit Freq Error	-31.619 kHz	OBW Power	99.00 %	x dB Bandwidth	17.69 MHz	x dB	-6.00 dB
Transmit Freq Error	-31.619 kHz	OBW Power	99.00 %						
x dB Bandwidth	17.69 MHz	x dB	-6.00 dB						
5825 MHz	 <p>Occupied Bandwidth 18.331 MHz</p> <table border="1"> <tr> <td>Transmit Freq Error</td> <td>-43.569 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.75 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Transmit Freq Error	-43.569 kHz	OBW Power	99.00 %	x dB Bandwidth	17.75 MHz	x dB	-6.00 dB
Transmit Freq Error	-43.569 kHz	OBW Power	99.00 %						
x dB Bandwidth	17.75 MHz	x dB	-6.00 dB						

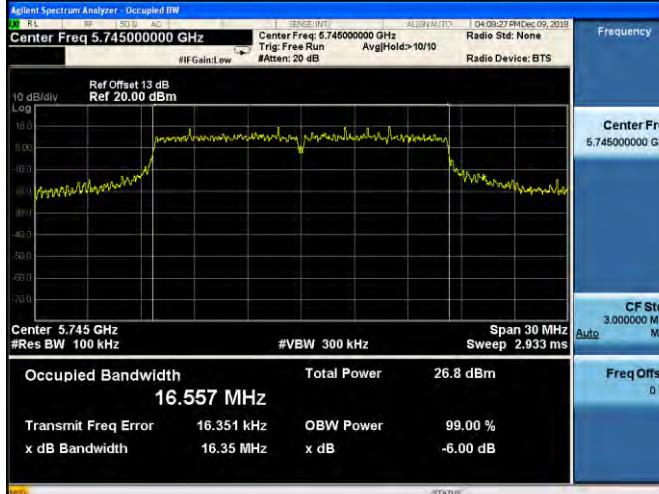
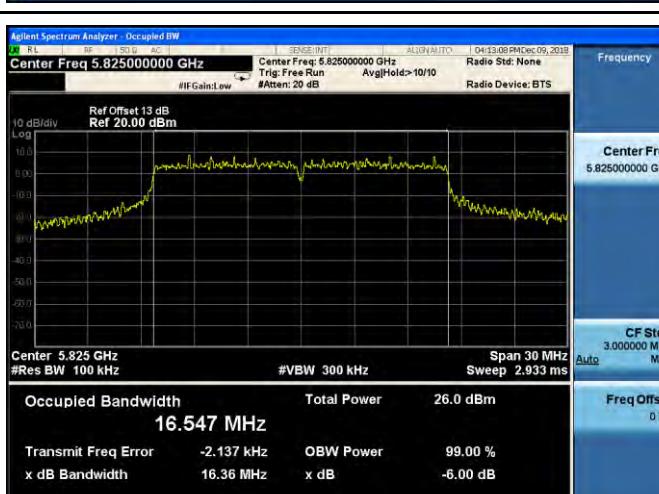
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1



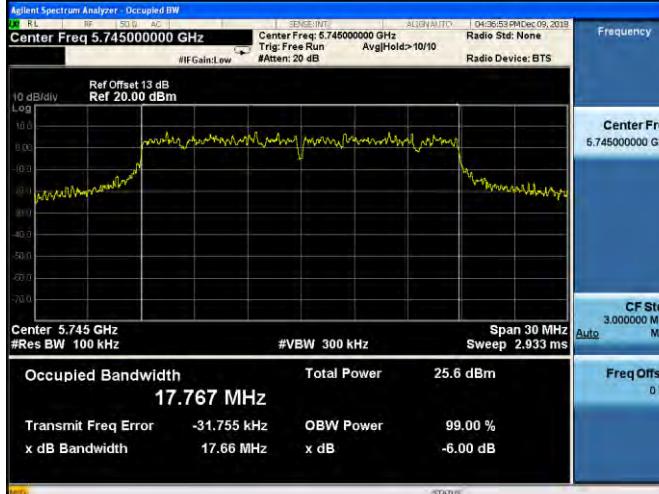
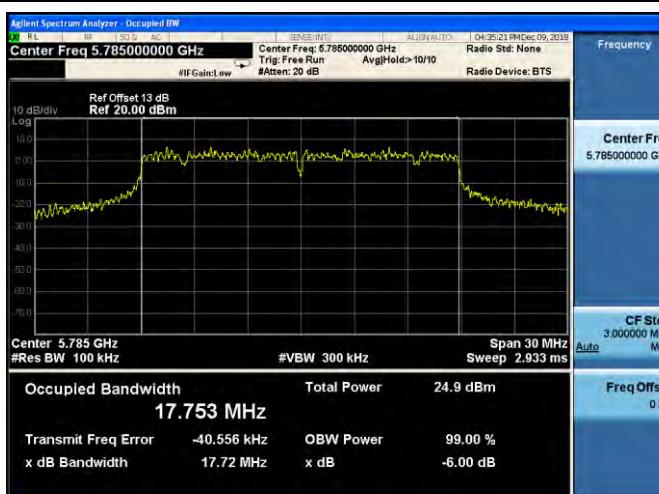
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-1



Mode 2: IEEE 802.11a Continuous TX mode_ANT-2

5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Center Freq: 5.745000000 GHz 04:09:27 PM Dec 09, 2018 #IFGain:Low Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>Log</p> <p>10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 -90.0 -100.0</p> <p>Center 5.745 GHz Span 30 MHz Sweep 2.933 ms STATUS</p> <p>#Res BW 100 kHz #VBW 300 kHz</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>26.8 dBm</th> </tr> </thead> <tbody> <tr> <td>16.557 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>16.351 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.35 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step 3.00000 MHz Freq Offset 0 Hz</p> <p>Auto Man</p>	Occupied Bandwidth	Total Power	26.8 dBm	16.557 MHz			Transmit Freq Error	16.351 kHz	OBW Power	99.00 %	x dB Bandwidth	16.35 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	26.8 dBm													
16.557 MHz															
Transmit Freq Error	16.351 kHz	OBW Power	99.00 %												
x dB Bandwidth	16.35 MHz	x dB	-6.00 dB												
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Center Freq: 5.785000000 GHz 04:12:21 PM Dec 09, 2018 #IFGain:Low Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>Log</p> <p>10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 -90.0 -100.0</p> <p>Center 5.785 GHz Span 30 MHz Sweep 2.933 ms STATUS</p> <p>#Res BW 100 kHz #VBW 300 kHz</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>26.1 dBm</th> </tr> </thead> <tbody> <tr> <td>16.547 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>5.917 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.33 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step 3.00000 MHz Freq Offset 0 Hz</p> <p>Auto Man</p>	Occupied Bandwidth	Total Power	26.1 dBm	16.547 MHz			Transmit Freq Error	5.917 kHz	OBW Power	99.00 %	x dB Bandwidth	16.33 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	26.1 dBm													
16.547 MHz															
Transmit Freq Error	5.917 kHz	OBW Power	99.00 %												
x dB Bandwidth	16.33 MHz	x dB	-6.00 dB												
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Center Freq: 5.825000000 GHz 04:13:09 PM Dec 09, 2018 #IFGain:Low Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>Log</p> <p>10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 -90.0 -100.0</p> <p>Center 5.825 GHz Span 30 MHz Sweep 2.933 ms STATUS</p> <p>#Res BW 100 kHz #VBW 300 kHz</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>26.0 dBm</th> </tr> </thead> <tbody> <tr> <td>16.547 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-2.137 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.36 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step 3.00000 MHz Freq Offset 0 Hz</p> <p>Auto Man</p>	Occupied Bandwidth	Total Power	26.0 dBm	16.547 MHz			Transmit Freq Error	-2.137 kHz	OBW Power	99.00 %	x dB Bandwidth	16.36 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	26.0 dBm													
16.547 MHz															
Transmit Freq Error	-2.137 kHz	OBW Power	99.00 %												
x dB Bandwidth	16.36 MHz	x dB	-6.00 dB												

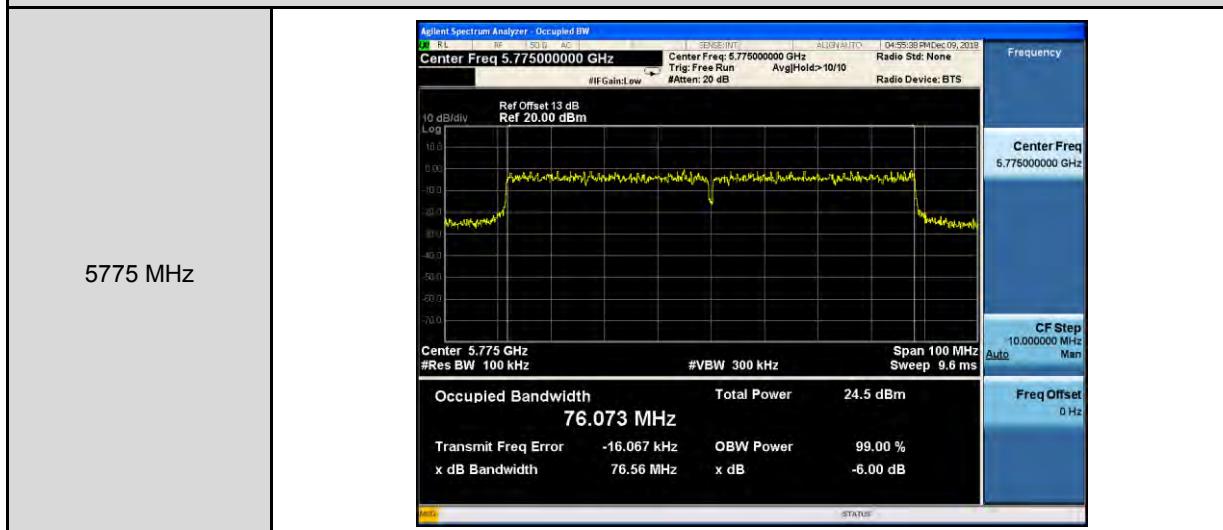
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2

5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.745000000 GHz</p> <p>CF Step: 3.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 17.767 MHz</p> <p>Total Power: 25.6 dBm</p> <p>Transmit Freq Error: -31.755 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.66 MHz x dB: -6.00 dB</p>
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.785000000 GHz</p> <p>CF Step: 3.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 17.753 MHz</p> <p>Total Power: 24.9 dBm</p> <p>Transmit Freq Error: -40.556 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.72 MHz x dB: -6.00 dB</p>
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.825000000 GHz</p> <p>CF Step: 3.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 18.287 MHz</p> <p>Total Power: 24.8 dBm</p> <p>Transmit Freq Error: -21.597 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.73 MHz x dB: -6.00 dB</p>

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2



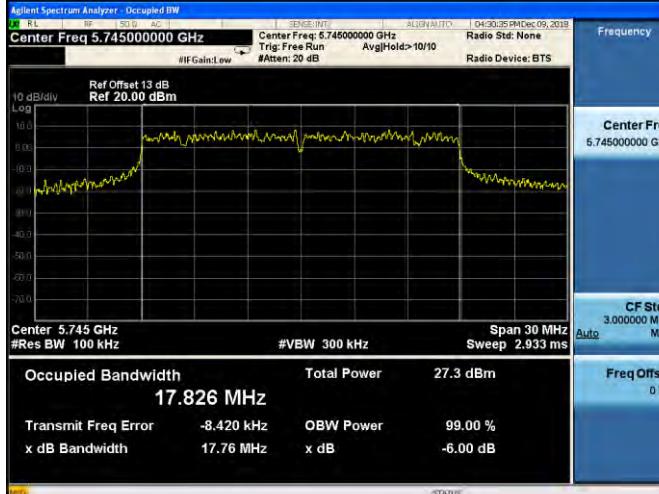
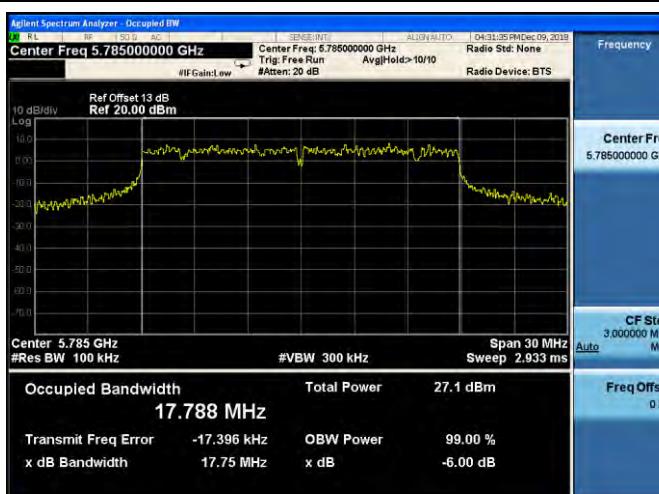
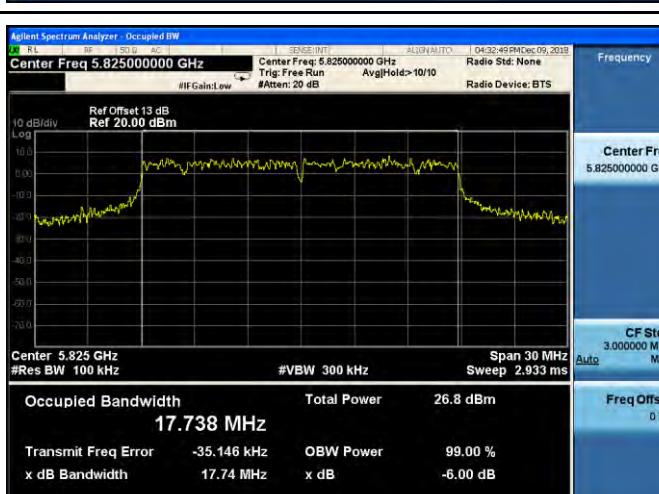
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-2



Mode 2: IEEE 802.11a Continuous TX mode_ANT-3

5745 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.745000000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>10 dB/div Log</p> <p>Center 5.745 GHz Span 30 MHz Sweep 2.933 ms</p> <p>#Res BW 100 kHz #VBW 300 kHz</p> <p>Occupied Bandwidth: 16.583 MHz</p> <p>Total Power: 27.7 dBm</p> <p>Transmit Freq Error: -6.001 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.33 MHz x dB: -6.00 dB</p> <p>STATUS</p>
5785 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.785000000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>10 dB/div Log</p> <p>Center 5.785 GHz Span 30 MHz Sweep 2.933 ms</p> <p>#Res BW 100 kHz #VBW 300 kHz</p> <p>Occupied Bandwidth: 16.514 MHz</p> <p>Total Power: 27.3 dBm</p> <p>Transmit Freq Error: -682 Hz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.34 MHz x dB: -6.00 dB</p> <p>STATUS</p>
5825 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.825000000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>10 dB/div Log</p> <p>Center 5.825 GHz Span 30 MHz Sweep 2.933 ms</p> <p>#Res BW 100 kHz #VBW 300 kHz</p> <p>Occupied Bandwidth: 18.398 MHz</p> <p>Total Power: 26.6 dBm</p> <p>Transmit Freq Error: 64.303 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.37 MHz x dB: -6.00 dB</p> <p>STATUS</p>

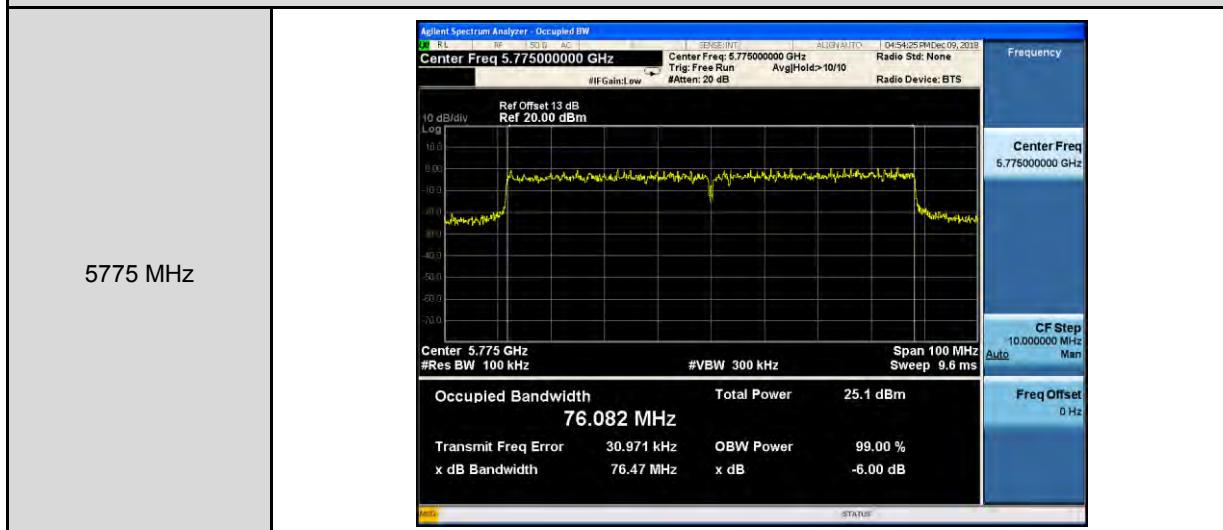
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3

5745 MHz	 <p>Occupied Bandwidth 17.826 MHz</p> <p>Transmit Freq Error -8.420 kHz x dB Bandwidth 17.76 MHz</p> <p>Total Power 27.3 dBm OBW Power 99.00 % x dB 17.76 MHz</p> <p>-6.00 dB</p>
5785 MHz	 <p>Occupied Bandwidth 17.788 MHz</p> <p>Transmit Freq Error -17.396 kHz x dB Bandwidth 17.75 MHz</p> <p>Total Power 27.1 dBm OBW Power 99.00 % x dB 17.75 MHz</p> <p>-6.00 dB</p>
5825 MHz	 <p>Occupied Bandwidth 17.738 MHz</p> <p>Transmit Freq Error -35.146 kHz x dB Bandwidth 17.74 MHz</p> <p>Total Power 26.8 dBm OBW Power 99.00 % x dB 17.74 MHz</p> <p>-6.00 dB</p>

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3

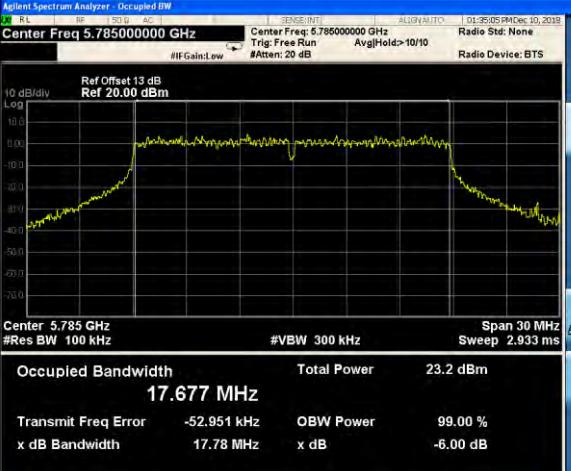
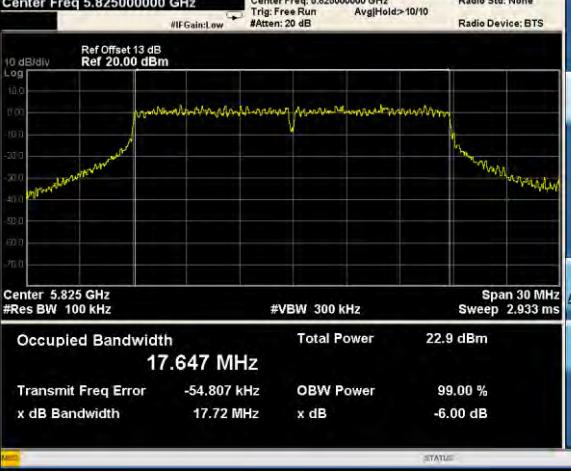


Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3



Beamforming on

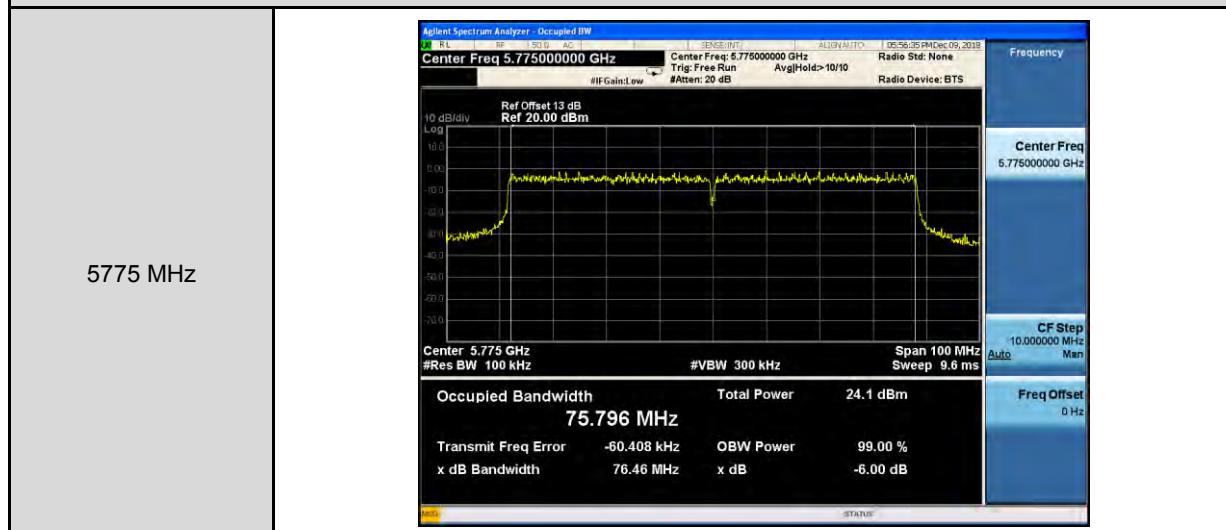
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

<p>5745 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz SENSE:INT ALIGN:AUTO 11:15:42 AM Dec 10, 2018 #IFGain:Low Center Freq: 5.745000000 GHz Radio Std: None Trig: Free Run Avg Hold>10/10 Radio Device: BTS #Atten: 20 dB</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 5.745 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>23.7 dBm</th> </tr> </thead> <tbody> <tr> <td>17.658 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-57.392 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.74 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step: 3.000000 MHz Man Auto</p> <p>Freq Offset: 0 Hz</p> <p>STATUS</p> 	Occupied Bandwidth	Total Power	23.7 dBm	17.658 MHz			Transmit Freq Error	-57.392 kHz	OBW Power	99.00 %	x dB Bandwidth	17.74 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	23.7 dBm													
17.658 MHz															
Transmit Freq Error	-57.392 kHz	OBW Power	99.00 %												
x dB Bandwidth	17.74 MHz	x dB	-6.00 dB												
<p>5785 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz SENSE:INT ALIGN:AUTO 01:35:05 PM Dec 10, 2018 #IFGain:Low Center Freq: 5.785000000 GHz Radio Std: None Trig: Free Run Avg Hold>10/10 Radio Device: BTS #Atten: 20 dB</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 5.785 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>23.2 dBm</th> </tr> </thead> <tbody> <tr> <td>17.677 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-52.951 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.78 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step: 3.000000 MHz Man Auto</p> <p>Freq Offset: 0 Hz</p> <p>STATUS</p>	Occupied Bandwidth	Total Power	23.2 dBm	17.677 MHz			Transmit Freq Error	-52.951 kHz	OBW Power	99.00 %	x dB Bandwidth	17.78 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	23.2 dBm													
17.677 MHz															
Transmit Freq Error	-52.951 kHz	OBW Power	99.00 %												
x dB Bandwidth	17.78 MHz	x dB	-6.00 dB												
<p>5825 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz SENSE:INT ALIGN:AUTO 01:37:15 PM Dec 10, 2018 #IFGain:Low Center Freq: 5.825000000 GHz Radio Std: None Trig: Free Run Avg Hold>10/10 Radio Device: BTS #Atten: 20 dB</p> <p>Ref Offset 13 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 5.825 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>22.9 dBm</th> </tr> </thead> <tbody> <tr> <td>17.647 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-54.807 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.72 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step: 3.000000 MHz Man Auto</p> <p>Freq Offset: 0 Hz</p> <p>STATUS</p> 	Occupied Bandwidth	Total Power	22.9 dBm	17.647 MHz			Transmit Freq Error	-54.807 kHz	OBW Power	99.00 %	x dB Bandwidth	17.72 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	22.9 dBm													
17.647 MHz															
Transmit Freq Error	-54.807 kHz	OBW Power	99.00 %												
x dB Bandwidth	17.72 MHz	x dB	-6.00 dB												

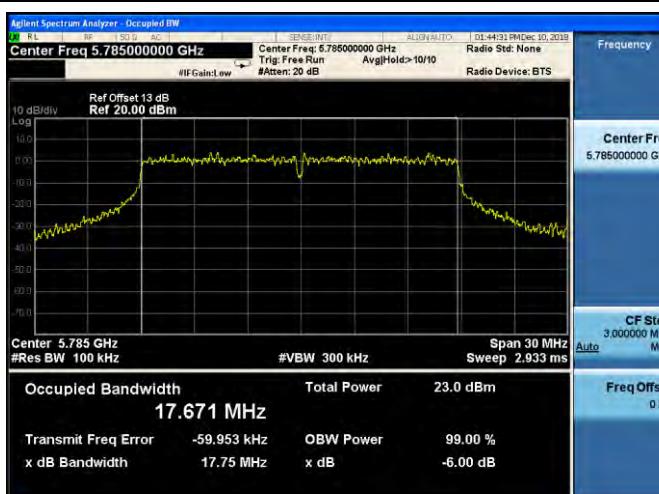
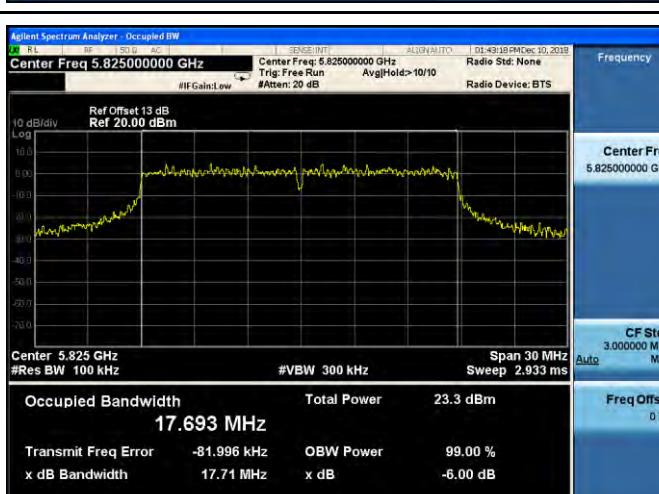
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-0



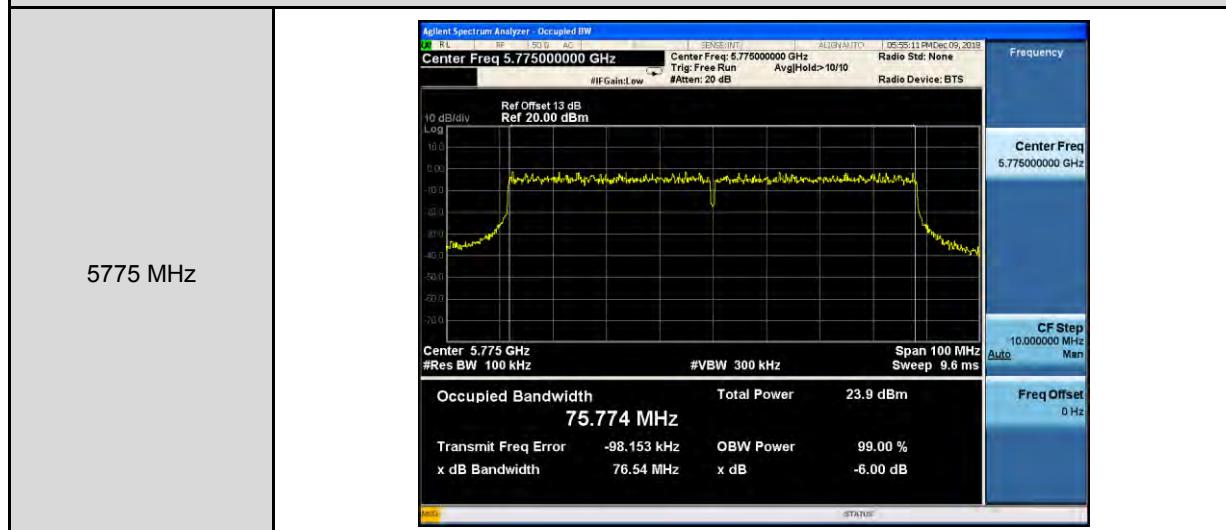
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1

5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.745000000 GHz</p> <p>CF Step 3.00000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>Occupied Bandwidth: 17.680 MHz</p> <p>Total Power: 23.0 dBm</p> <p>Transmit Freq Error: -54.638 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.70 MHz x dB: -6.00 dB</p> <p>Span 30 MHz Sweep 2.933 ms #Res BW 100 kHz #VBW 300 kHz</p>
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.785000000 GHz</p> <p>CF Step 3.00000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>Occupied Bandwidth: 17.671 MHz</p> <p>Total Power: 23.0 dBm</p> <p>Transmit Freq Error: -59.953 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.75 MHz x dB: -6.00 dB</p> <p>Span 30 MHz Sweep 2.933 ms #Res BW 100 kHz #VBW 300 kHz</p>
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.825000000 GHz</p> <p>CF Step 3.00000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>Occupied Bandwidth: 17.693 MHz</p> <p>Total Power: 23.3 dBm</p> <p>Transmit Freq Error: -81.996 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.71 MHz x dB: -6.00 dB</p> <p>Span 30 MHz Sweep 2.933 ms #Res BW 100 kHz #VBW 300 kHz</p>

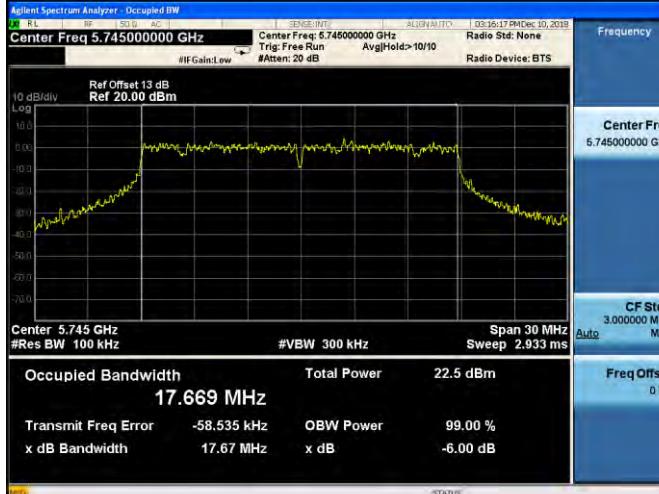
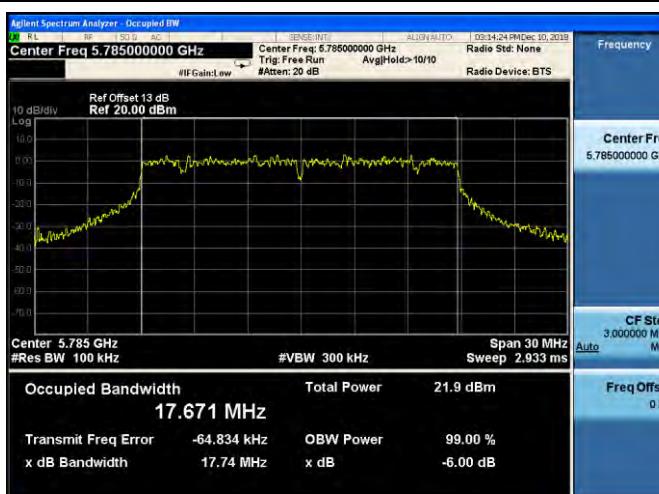
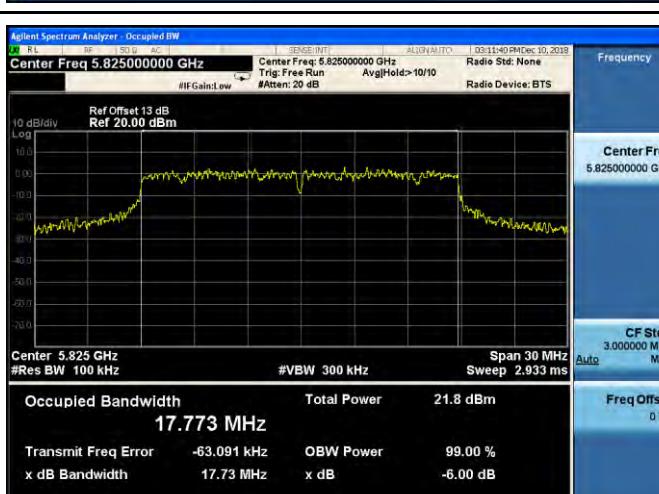
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1



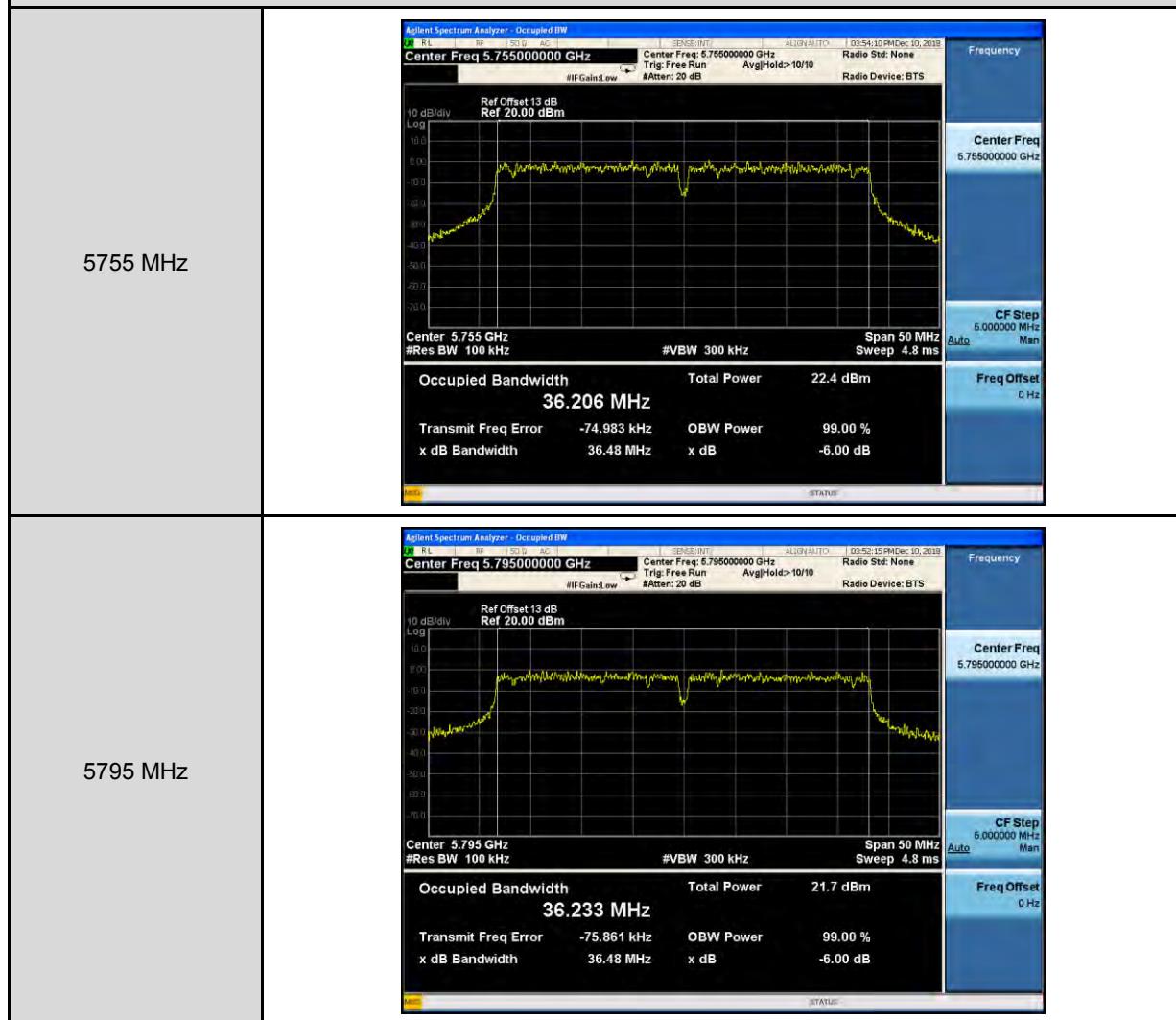
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-1



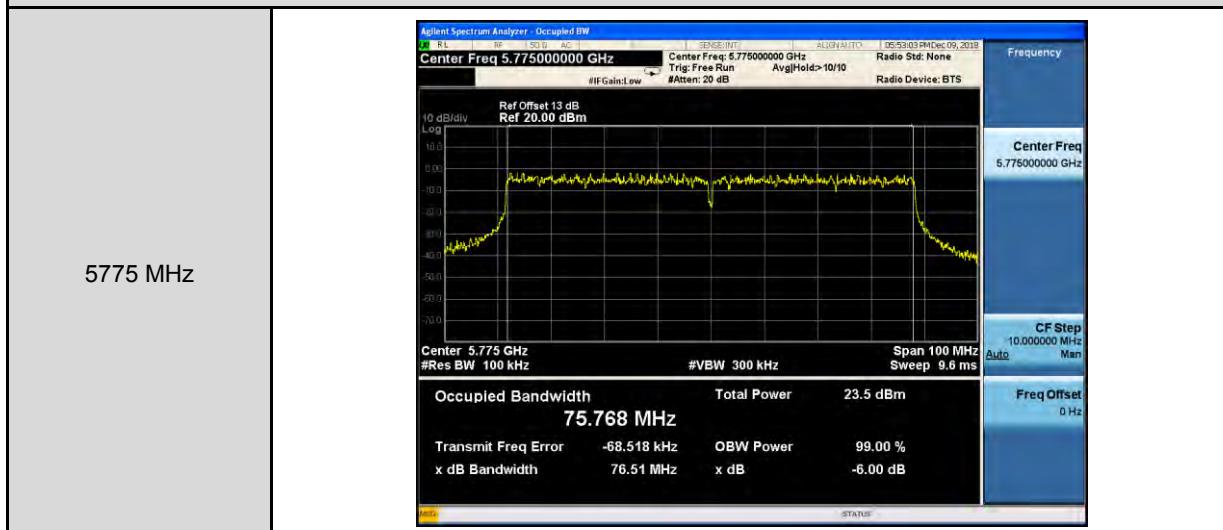
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2

5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.745000000 GHz</p> <p>CF Step: 3.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 17.669 MHz Total Power: 22.5 dBm</p> <p>Transmit Freq Error: -58.535 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.67 MHz x dB: -6.00 dB</p> <p>Span 30 MHz Sweep 2.933 ms #Res BW: 100 kHz #VBW: 300 kHz</p> <p>STATUS</p>
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.785000000 GHz</p> <p>CF Step: 3.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 17.671 MHz Total Power: 21.9 dBm</p> <p>Transmit Freq Error: -64.834 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.74 MHz x dB: -6.00 dB</p> <p>Span 30 MHz Sweep 2.933 ms #Res BW: 100 kHz #VBW: 300 kHz</p> <p>STATUS</p>
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB #IFGain:Low #Atten: 20 dB</p> <p>Frequency: Center Freq 5.825000000 GHz</p> <p>CF Step: 3.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 17.773 MHz Total Power: 21.8 dBm</p> <p>Transmit Freq Error: -63.091 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.73 MHz x dB: -6.00 dB</p> <p>Span 30 MHz Sweep 2.933 ms #Res BW: 100 kHz #VBW: 300 kHz</p> <p>STATUS</p>

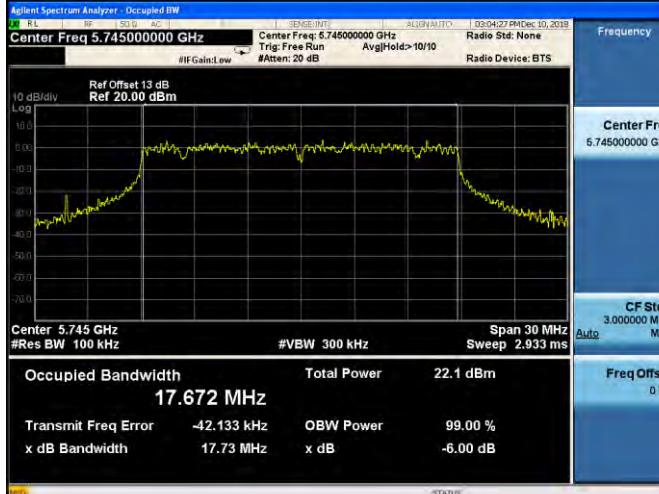
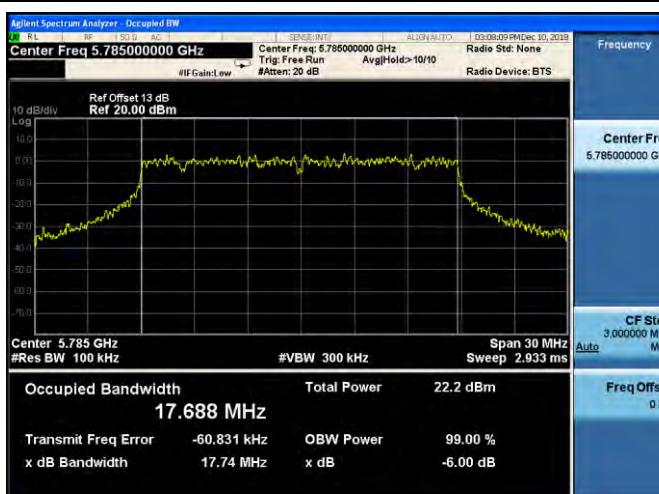
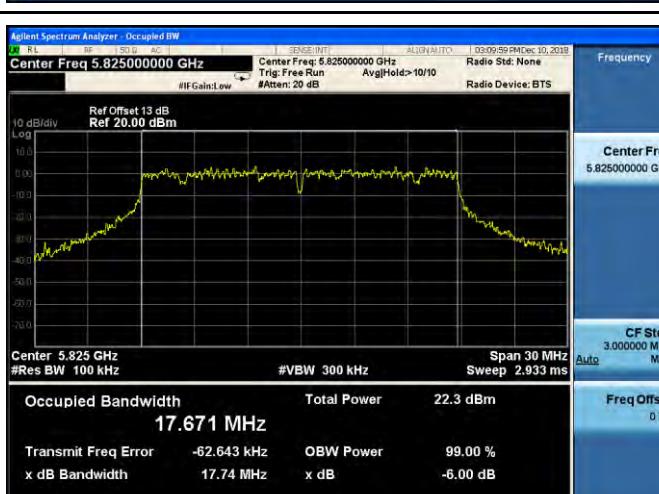
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-2



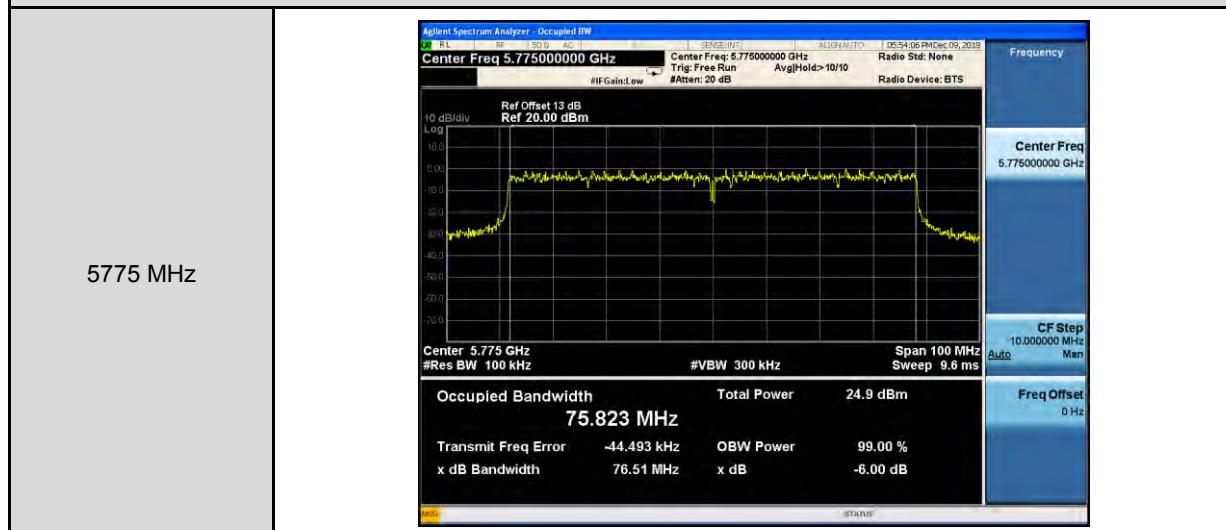
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3

5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.745000000 GHz Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB Ref 20.00 dBm Log 10 dB/div</p> <p>Center 5.745 GHz Span 30 MHz Sweep 2.933 ms #Res BW 100 kHz #VBW 300 kHz</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>22.1 dBm</th> </tr> </thead> <tbody> <tr> <td>17.672 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-42.133 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.73 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step 3.00000 MHz Freq Offset 0 Hz STATUS</p>	Occupied Bandwidth	Total Power	22.1 dBm	17.672 MHz			Transmit Freq Error	-42.133 kHz	OBW Power	99.00 %	x dB Bandwidth	17.73 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	22.1 dBm													
17.672 MHz															
Transmit Freq Error	-42.133 kHz	OBW Power	99.00 %												
x dB Bandwidth	17.73 MHz	x dB	-6.00 dB												
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.785000000 GHz Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB Ref 20.00 dBm Log 10 dB/div</p> <p>Center 5.785 GHz Span 30 MHz Sweep 2.933 ms #Res BW 100 kHz #VBW 300 kHz</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>22.2 dBm</th> </tr> </thead> <tbody> <tr> <td>17.688 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-60.831 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.74 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step 3.00000 MHz Freq Offset 0 Hz STATUS</p>	Occupied Bandwidth	Total Power	22.2 dBm	17.688 MHz			Transmit Freq Error	-60.831 kHz	OBW Power	99.00 %	x dB Bandwidth	17.74 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	22.2 dBm													
17.688 MHz															
Transmit Freq Error	-60.831 kHz	OBW Power	99.00 %												
x dB Bandwidth	17.74 MHz	x dB	-6.00 dB												
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.825000000 GHz Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 13 dB Ref 20.00 dBm Log 10 dB/div</p> <p>Center 5.825 GHz Span 30 MHz Sweep 2.933 ms #Res BW 100 kHz #VBW 300 kHz</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> <th>22.3 dBm</th> </tr> </thead> <tbody> <tr> <td>17.671 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-62.643 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.74 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </tbody> </table> <p>CF Step 3.00000 MHz Freq Offset 0 Hz STATUS</p>	Occupied Bandwidth	Total Power	22.3 dBm	17.671 MHz			Transmit Freq Error	-62.643 kHz	OBW Power	99.00 %	x dB Bandwidth	17.74 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	22.3 dBm													
17.671 MHz															
Transmit Freq Error	-62.643 kHz	OBW Power	99.00 %												
x dB Bandwidth	17.74 MHz	x dB	-6.00 dB												

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3



5.6. Maximum Power Spectral Density Measurement

Test Mode	Mode 2: IEEE 802.11a link mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	5.944	0.084	6.028	≤ 12.51	
5200	5.826	0.084	5.910		
5240	5.727	0.084	5.811		
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	6.257	0.084	6.341	≤ 12.51	
5200	6.181	0.084	6.265		
5240	6.503	0.084	6.587		
Frequency (MHz)	ANT-2				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	6.691	0.084	6.775	≤ 12.51	
5200	6.811	0.084	6.895		
5240	6.446	0.084	6.530		
Frequency (MHz)	ANT-3				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	6.274	0.084	6.358	≤ 12.51	
5200	6.141	0.084	6.225		
5240	5.639	0.084	5.723		
Frequency (MHz)	ANT-0+1+2+3				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
5180	12.404			≤ 12.51	
5200	12.359				
5240	12.201				

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

Test Mode	Mode 2: IEEE 802.11a link mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-0.60	0.084	6.47	≤ 24.53	
5785	-1.15	0.084	5.92		
5825	-1.85	0.084	5.23		
Frequency (MHz)	ANT-1				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-0.57	0.084	6.51	≤ 24.53	
5785	-0.32	0.084	6.75		
5825	0.07	0.084	7.15		
Frequency (MHz)	ANT-2				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-0.14	0.084	6.93	≤ 24.53	
5785	-0.72	0.084	6.36		
5825	-0.70	0.084	6.37		
Frequency (MHz)	ANT-3				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	0.84	0.084	7.91	≤ 24.53	
5785	0.35	0.084	7.42		
5825	-0.42	0.084	6.66		
Frequency (MHz)	ANT-0+1+2+3				
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)	
5745	13.02			≤ 24.53	
5785	12.67				
5825	12.43				

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

Conversion ratio = $10^{\star} \text{Log}(500 \text{ k}/100 \text{ k})$

Test Mode	Mode 3: IEEE 802.11ac 20 MHz link mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	5.993	0.026	6.019	≤ 17.00	
5200	5.737	0.026	5.763		
5240	5.514	0.026	5.540		
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	6.267	0.026	6.293	≤ 17.00	
5200	6.349	0.026	6.375		
5240	6.425	0.026	6.451		
Frequency (MHz)	ANT-2				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	6.612	0.026	6.638	≤ 17.00	
5200	6.302	0.026	6.328		
5240	6.551	0.026	6.577		
Frequency (MHz)	ANT-3				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	6.204	0.026	6.230	≤ 17.00	
5200	5.962	0.026	5.988		
5240	5.569	0.026	5.595		
Frequency (MHz)	ANT-0+1+2+3				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
5180	12.321			≤ 17.00	
5200	12.141				
5240	12.087				

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

Test Mode	Mode 3: IEEE 802.11ac 20 MHz link mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	0.49	0.026	7.51	≤ 30.00	
5785	-0.95	0.026	6.07		
5825	-1.30	0.026	5.71		
Frequency (MHz)	ANT-1				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-0.51	0.026	6.51	≤ 30.00	
5785	-0.46	0.026	6.56		
5825	-0.54	0.026	6.47		
Frequency (MHz)	ANT-2				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-1.95	0.026	5.07	≤ 30.00	
5785	-2.85	0.026	4.17		
5825	-2.94	0.026	4.07		
Frequency (MHz)	ANT-3				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-0.30	0.026	6.71	≤ 30.00	
5785	-0.44	0.026	6.58		
5825	-0.89	0.026	6.12		
Frequency (MHz)	ANT-0+1+2+3				
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)	
5745	12.56			≤ 30.00	
5785	11.97				
5825	11.71				

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

Conversion ratio = $10^{\star} \text{Log}(500 \text{ k}/100 \text{ k})$

Test Mode	Mode 4: IEEE 802.11ac 40 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	2.512	0.070	2.582	≤ 17.00
5230	4.352	0.070	4.422	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	3.078	0.070	3.148	≤ 17.00
5230	5.123	0.070	5.193	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	3.085	0.070	3.155	≤ 17.00
5230	4.846	0.070	4.916	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	2.482	0.070	2.552	≤ 17.00
5230	4.234	0.070	4.304	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5190	8.890			≤ 17.00
5230	10.745			

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

Test Mode	Mode 4: IEEE 802.11ac 40 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-3.72	0.070	3.34	≤ 30.00
5795	-4.26	0.070	2.80	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-4.23	0.070	2.83	≤ 30.00
5795	-4.37	0.070	2.69	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-6.08	0.070	0.98	≤ 30.00
5795	-6.72	0.070	0.34	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-4.47	0.070	2.59	≤ 30.00
5795	-4.34	0.070	2.72	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5755	8.54			≤ 30.00
5795	8.27			

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

Conversion ratio = $10^{\star} \log(500 \text{ k}/100 \text{ k})$

Test Mode	Mode 5: IEEE 802.11ac 80 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.991	0.182	-2.809	≤ 17.00
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.487	0.182	-2.305	≤ 17.00
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.255	0.182	-2.073	≤ 17.00
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.940	0.182	-2.758	≤ 17.00
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/MHz)
	Calculated (dBm/MHz)			≤ 17.00
5210	3.545			

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

+ duty factor.

Test Mode	Mode 5: IEEE 802.11ac 80 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-6.75	0.182	0.42	≤ 30.00
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-7.88	0.182	-0.71	≤ 30.00
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.42	0.182	-3.25	≤ 30.00
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-9.46	0.182	-2.29	≤ 30.00
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775	4.79			≤ 30.00

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

Conversion ratio = $10 \cdot \log(500 \text{ k}/100 \text{ k})$

Beamforming on					
Test Mode	Mode 3: IEEE 802.11ac 20 MHz link mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-0.554	0.026	-0.528	≤ 12.51	
5200	-0.740	0.026	-0.714		
5240	-0.873	0.026	-0.847		
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-0.444	0.026	-0.418	≤ 12.51	
5200	-0.268	0.026	-0.242		
5240	-0.479	0.026	-0.453		
Frequency (MHz)	ANT-2				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-0.127	0.026	-0.101	≤ 12.51	
5200	-0.346	0.026	-0.320		
5240	-0.541	0.026	-0.515		
Frequency (MHz)	ANT-3				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-0.763	0.026	-0.737	≤ 12.51	
5200	-0.876	0.026	-0.850		
5240	-0.830	0.026	-0.804		
Frequency (MHz)	ANT-0+1+2+3				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
5180	5.581			≤ 12.51	
5200	5.497				
5240	5.369				

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

Test Mode	Mode 3: IEEE 802.11ac 20 MHz link mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-2.68	0.035	4.35	≤ 24.53	
5785	-3.48	0.035	3.55		
5825	-4.00	0.035	3.03		
Frequency (MHz)	ANT-1				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-3.77	0.035	3.26	≤ 24.53	
5785	-3.43	0.035	3.59		
5825	-3.31	0.035	3.72		
Frequency (MHz)	ANT-2				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-4.27	0.035	2.75	≤ 24.53	
5785	-4.80	0.035	2.22		
5825	-5.03	0.035	1.99		
Frequency (MHz)	ANT-3				
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)	
5745	-4.49	0.035	2.53	≤ 24.53	
5785	-4.42	0.035	2.61		
5825	-4.49	0.035	2.54		
Frequency (MHz)	ANT-0+1+2+3				
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)	
5745	9.29			≤ 24.53	
5785	9.04				
5825	8.88				

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

Conversion ratio = $10^{\star} \text{Log}(500 \text{ k}/100 \text{ k})$

Test Mode	Mode 4: IEEE 802.11ac 40 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-3.907	0.070	-3.837	≤ 12.51
5230	-2.452	0.070	-2.382	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-3.637	0.070	-3.567	≤ 12.51
5230	-1.325	0.070	-1.255	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-3.671	0.070	-3.601	≤ 12.51
5230	-1.751	0.070	-1.681	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-4.419	0.070	-4.349	≤ 12.51
5230	-2.555	0.070	-2.485	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5190	2.193			≤ 12.51
5230	4.100			

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

Test Mode	Mode 4: IEEE 802.11ac 40 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-5.63	0.070	1.43	≤ 24.53
5795	-7.61	0.070	-0.55	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.67	0.070	-0.61	≤ 24.53
5795	-6.88	0.070	0.18	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-8.37	0.070	-1.31	≤ 24.53
5795	-9.13	0.070	-2.07	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.27	0.070	-0.21	≤ 24.53
5795	-7.44	0.070	-0.38	
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755	5.97			≤ 24.53
5795	5.39			

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

Conversion ratio = $10^{\star} \log(500 \text{ k}/100 \text{ k})$

Test Mode	Mode 5: IEEE 802.11ac 80 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.532	0.182	-9.350	≤ 12.51
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.026	0.182	-8.844	≤ 12.51
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-8.649	0.182	-8.467	≤ 12.51
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.607	0.182	-9.425	≤ 12.51
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/MHz)
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	-2.983			≤ 12.51

Note: Method SA-2, Power density = measured result + $10 \log(1/\text{duty cycle})$ + Conversion ratio = measured result

+ duty factor.

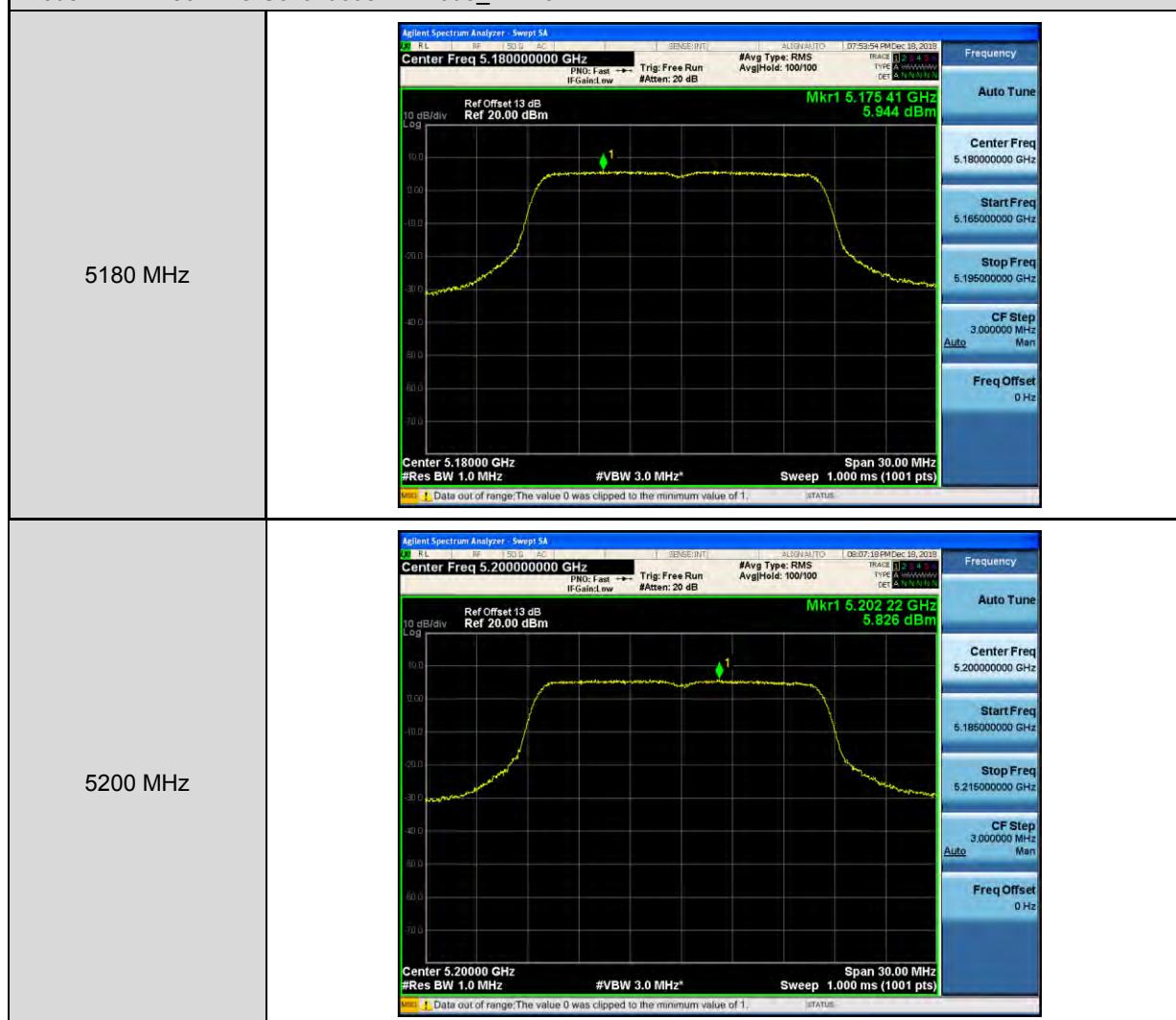
Test Mode	Mode 5: IEEE 802.11ac 80 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.00	0.145	-2.86	≤ 24.53
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.01	0.145	-2.88	≤ 24.53
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-11.33	0.145	-4.20	≤ 24.53
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-9.49	0.145	-2.36	≤ 24.53
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775	3.03			≤ 24.53

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

Conversion ratio = $10^{\ast} \log(500 \text{ k}/100 \text{ k})$

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0

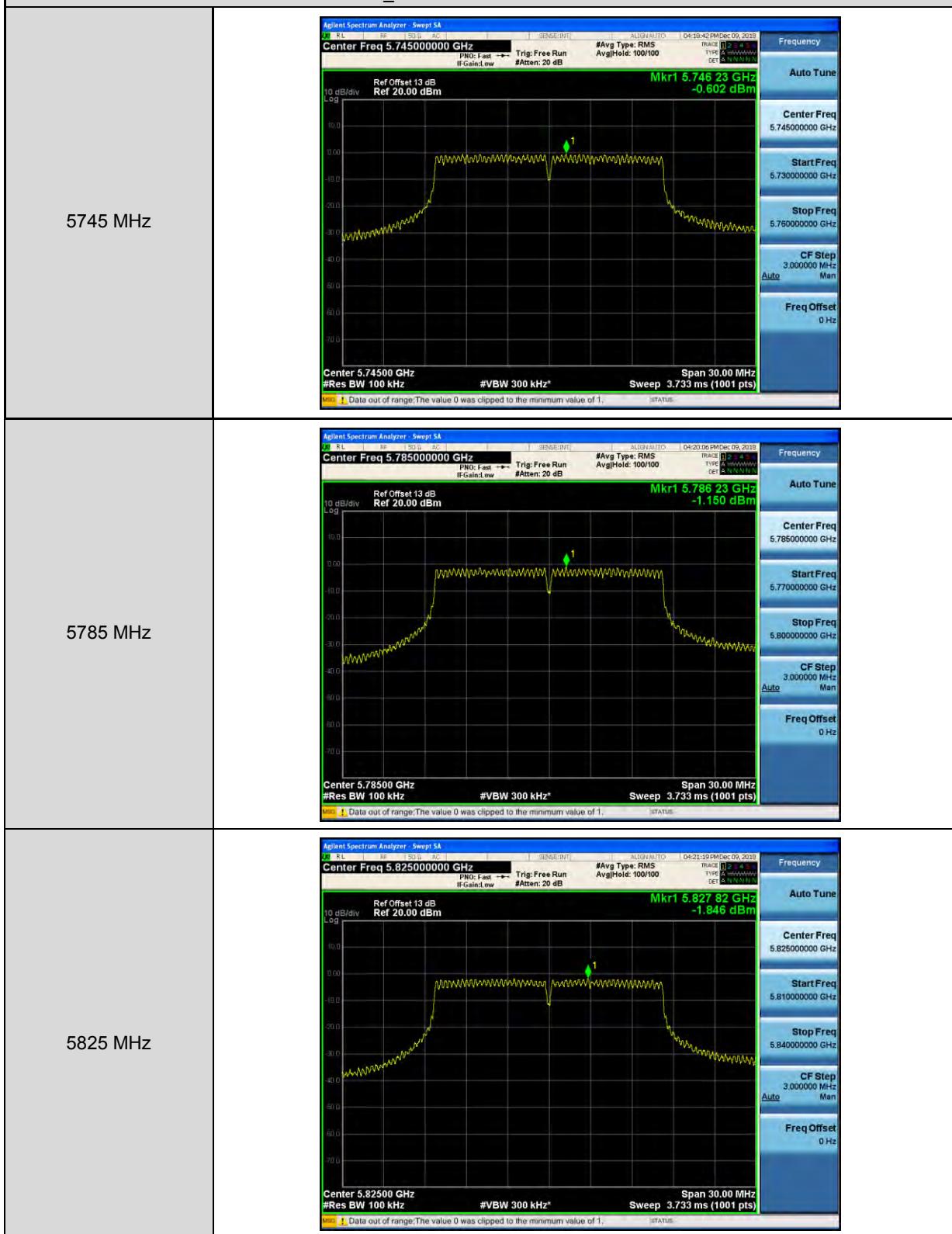


Mode 2: IEEE 802.11a Continuous TX mode _ANT-0

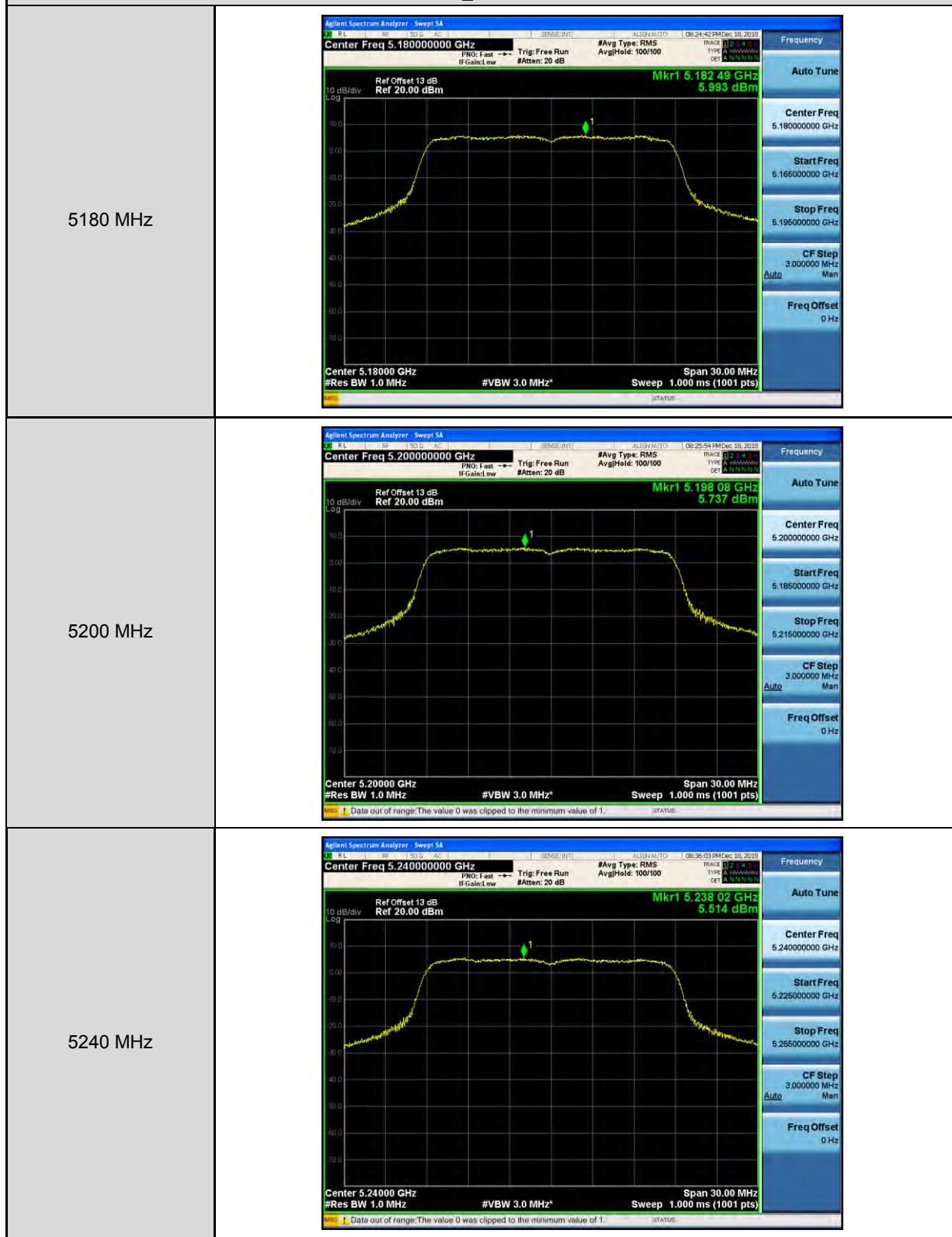
5240 MHz



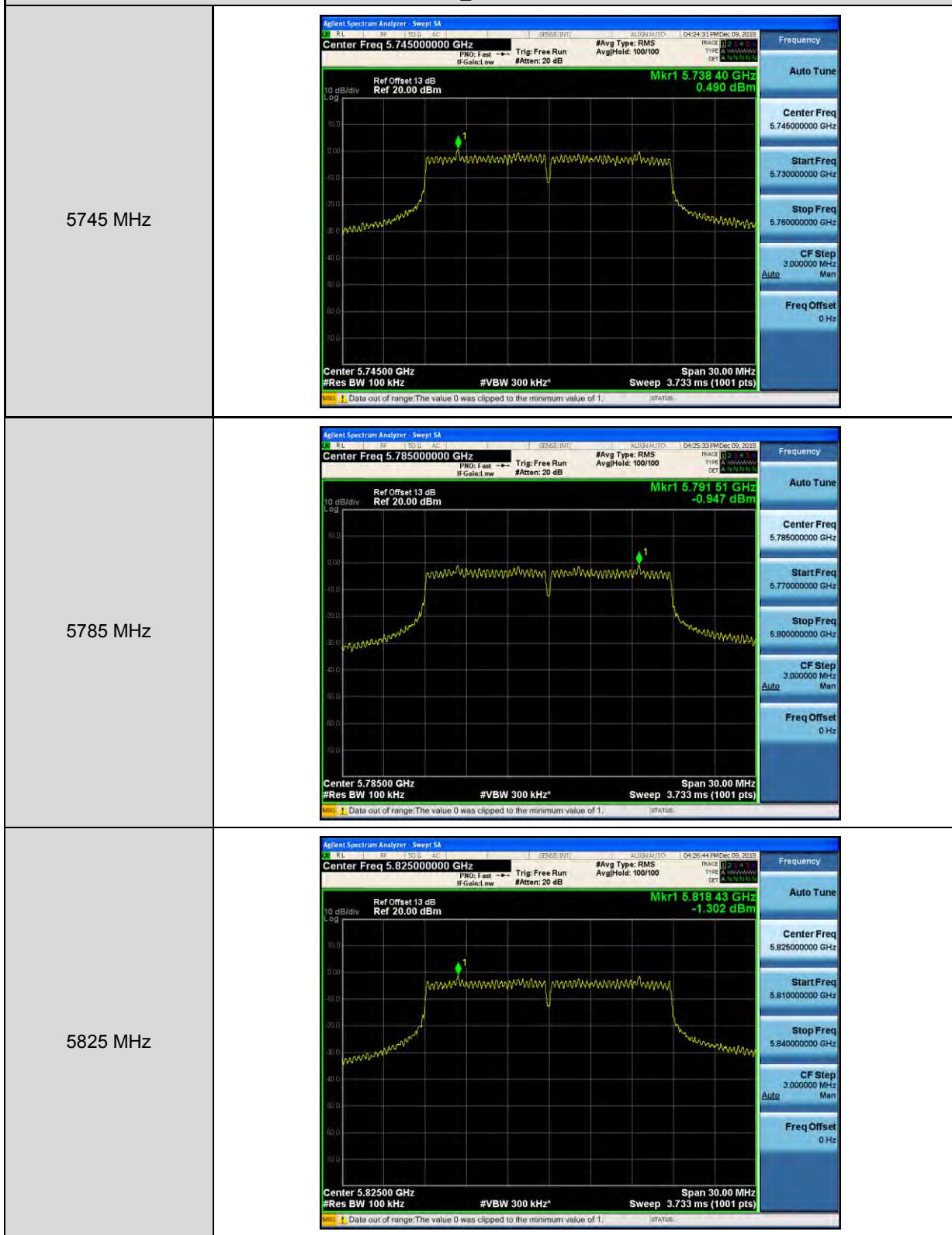
Mode 2: IEEE 802.11a Continuous TX mode _ANT-0



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0

5755 MHz



5795 MHz



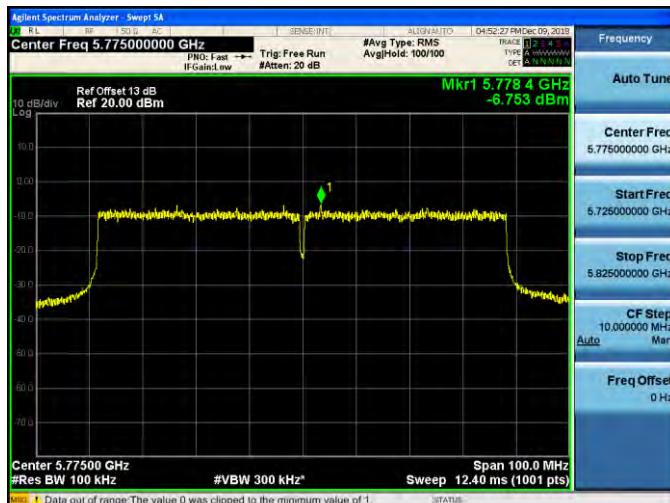
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-0

5210 MHz

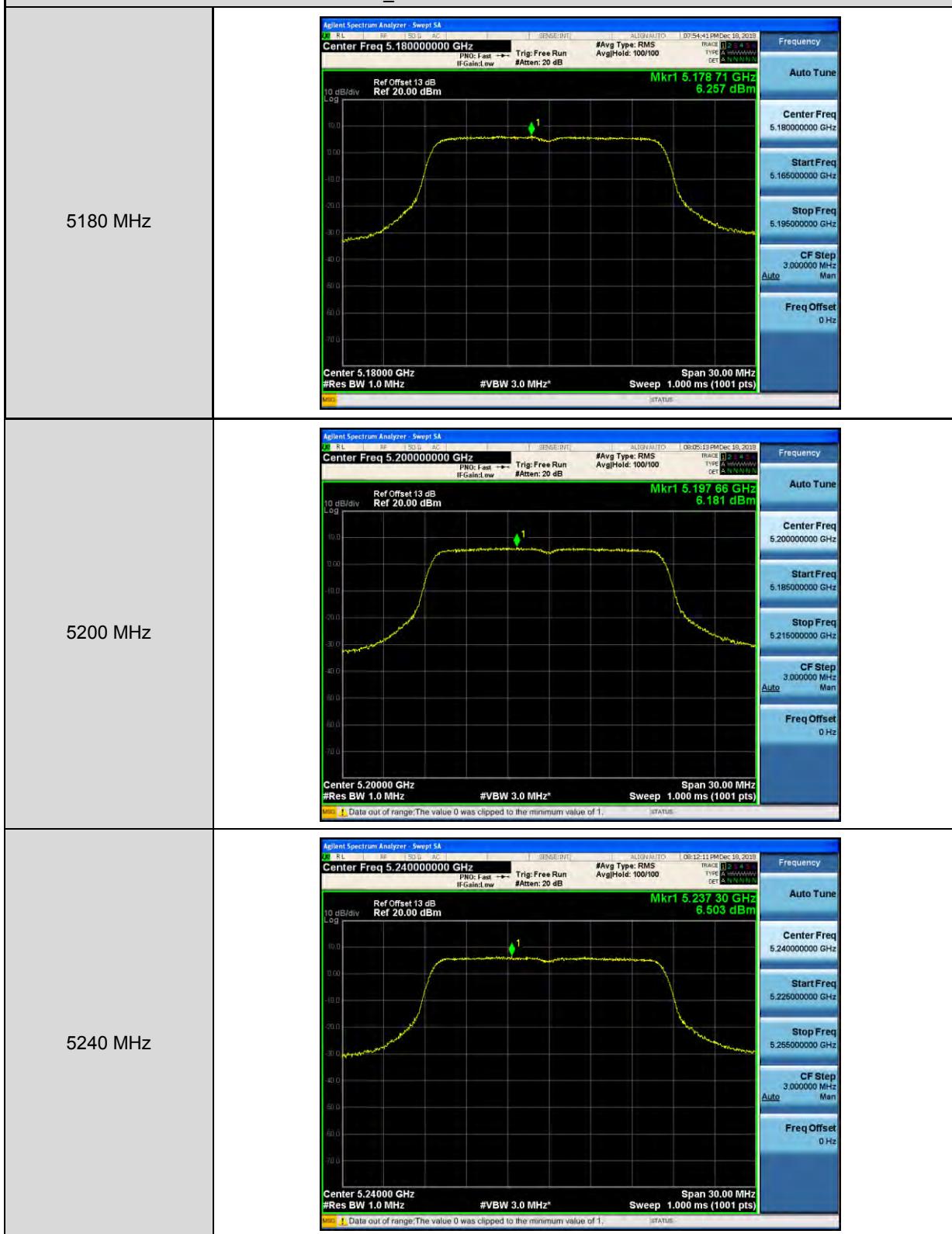


Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-0

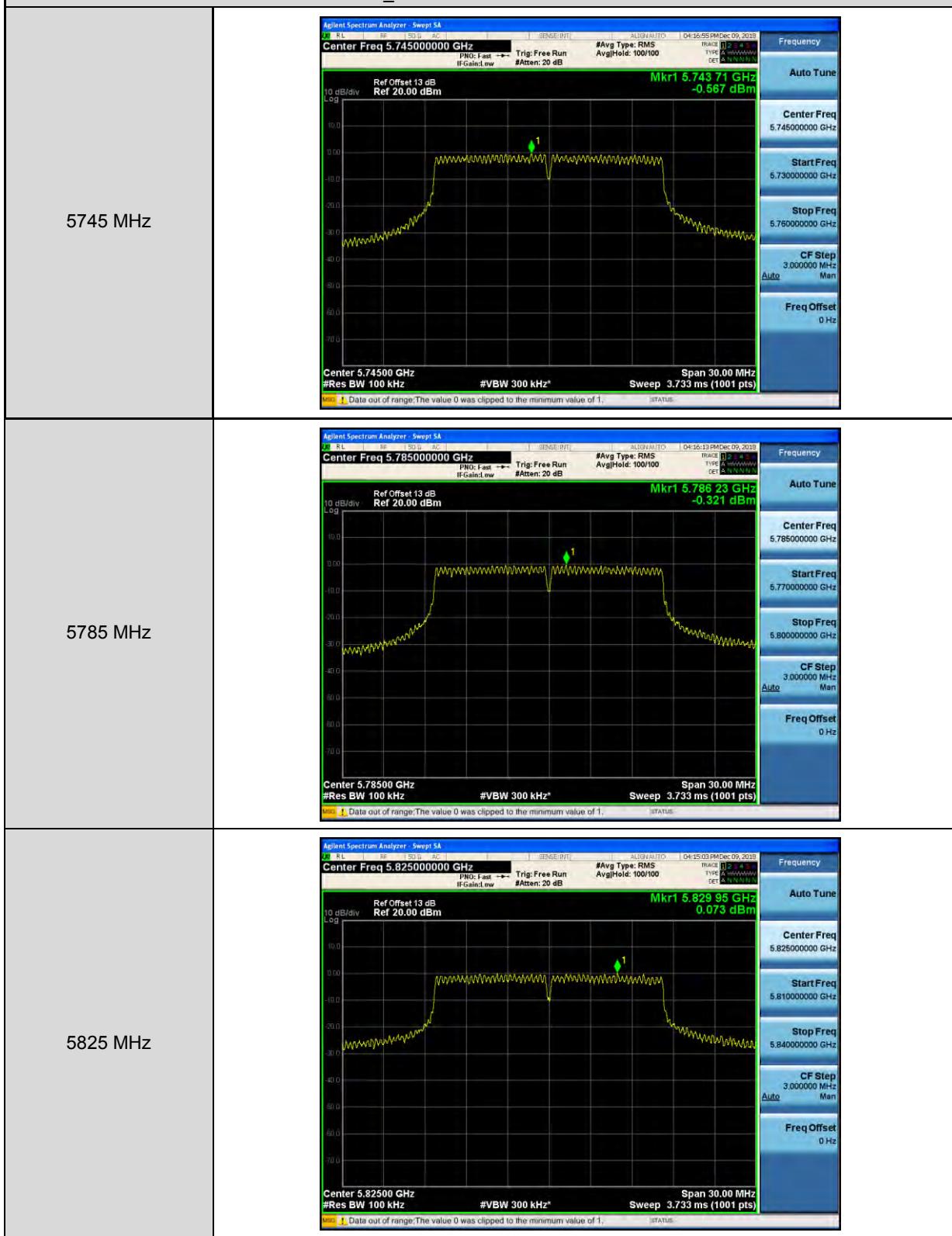
5775 MHz



Mode 2: IEEE 802.11a Continuous TX mode _ANT-1



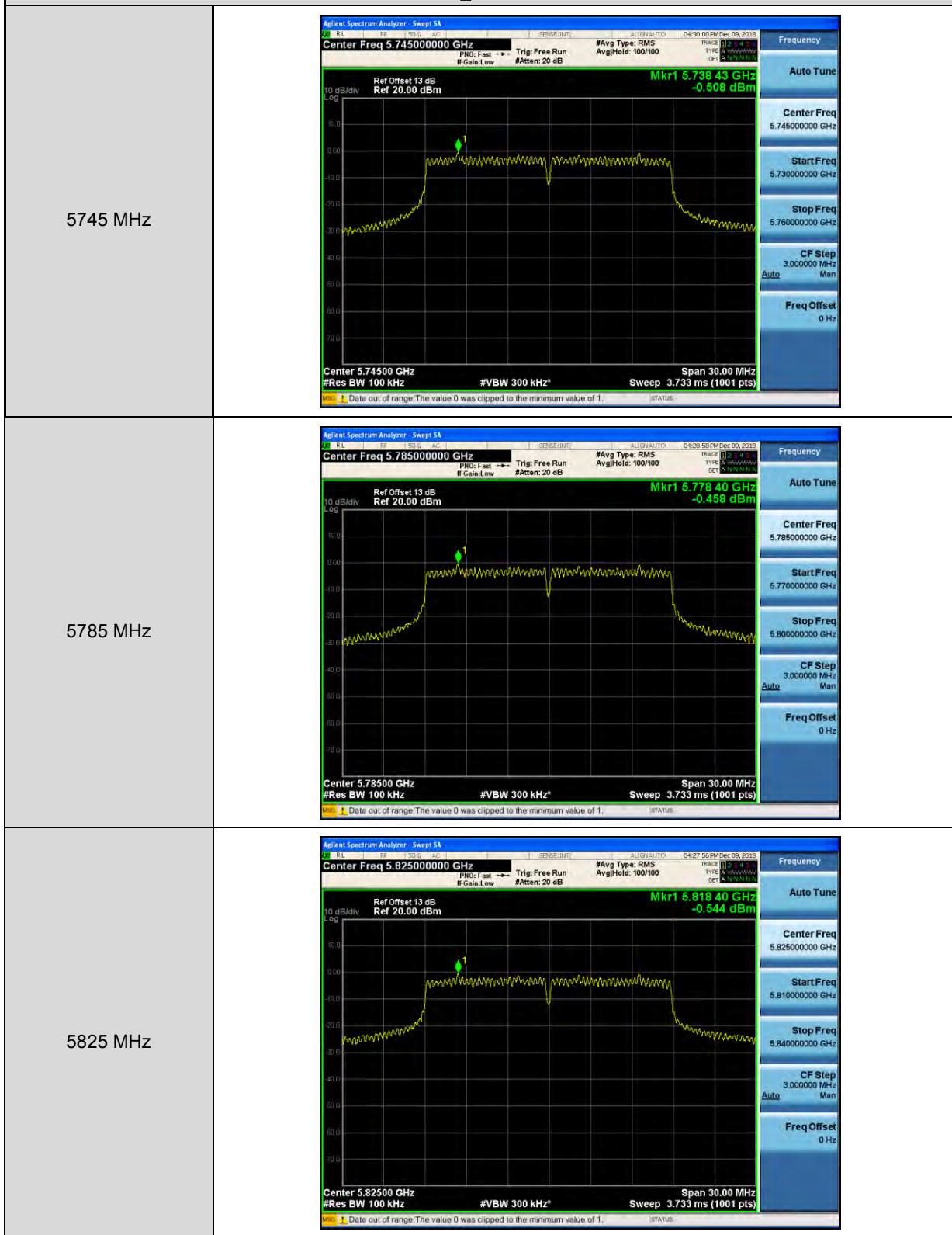
Mode 2: IEEE 802.11a Continuous TX mode _ANT-1



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1



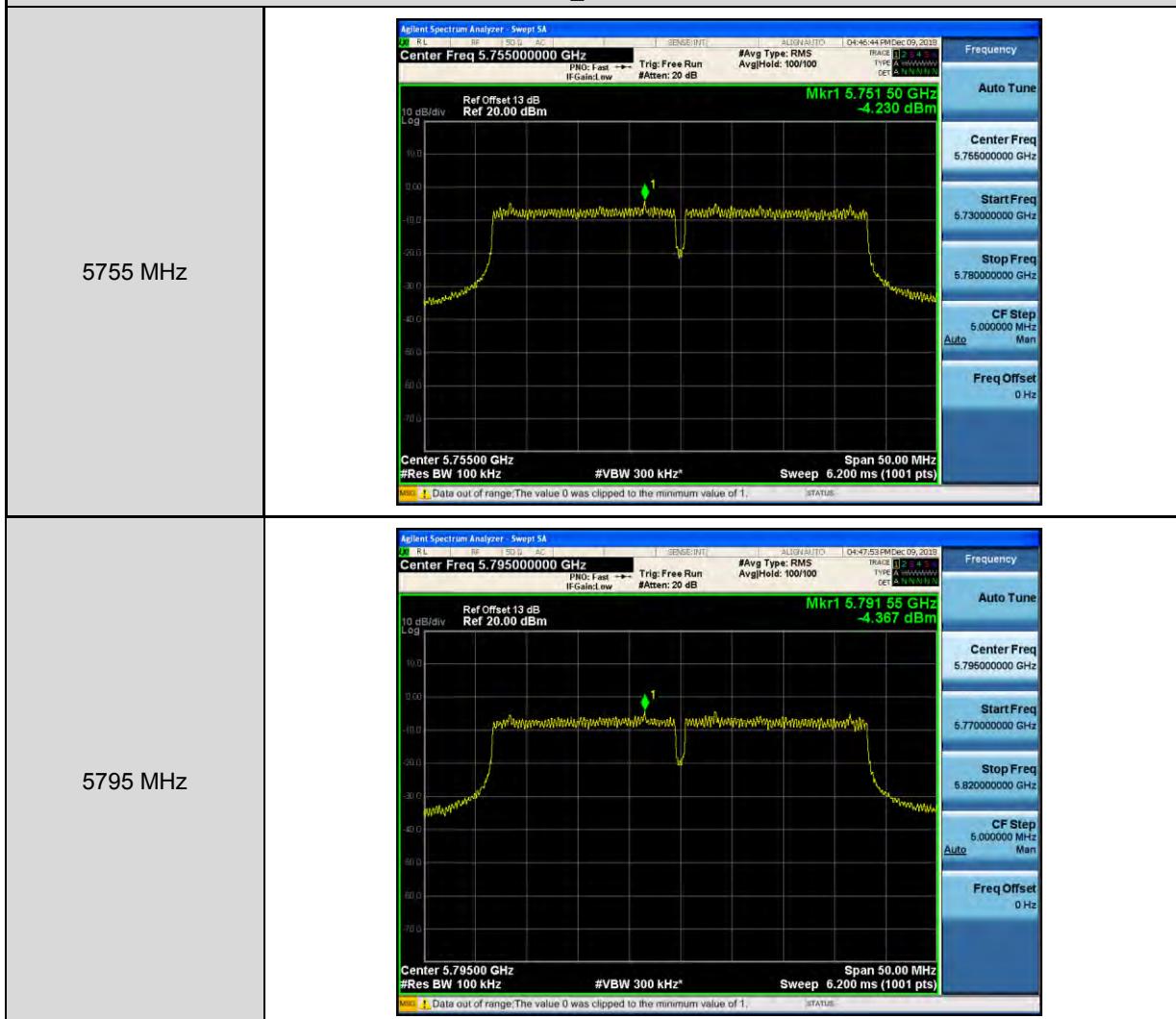
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-1

5210 MHz

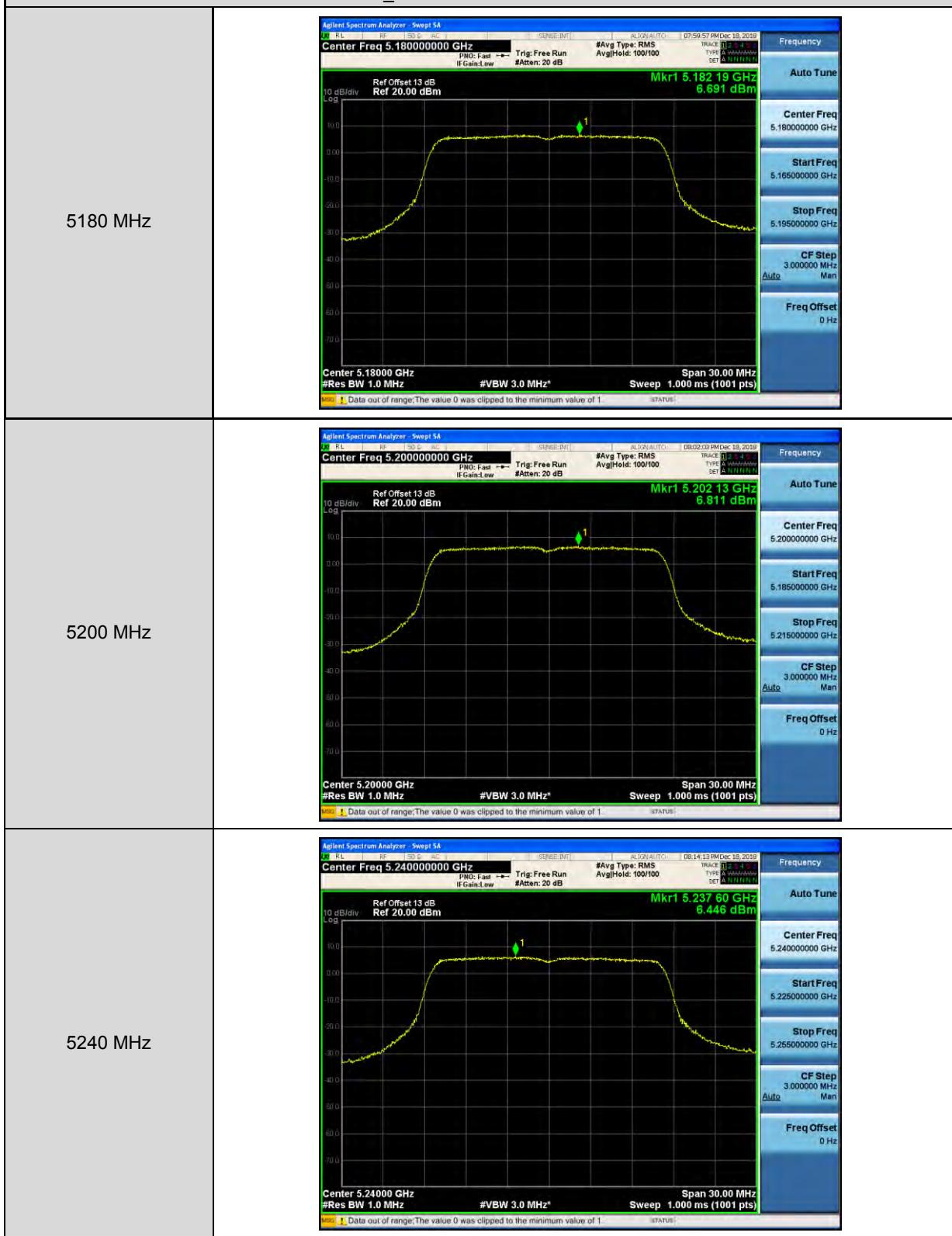


Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-1

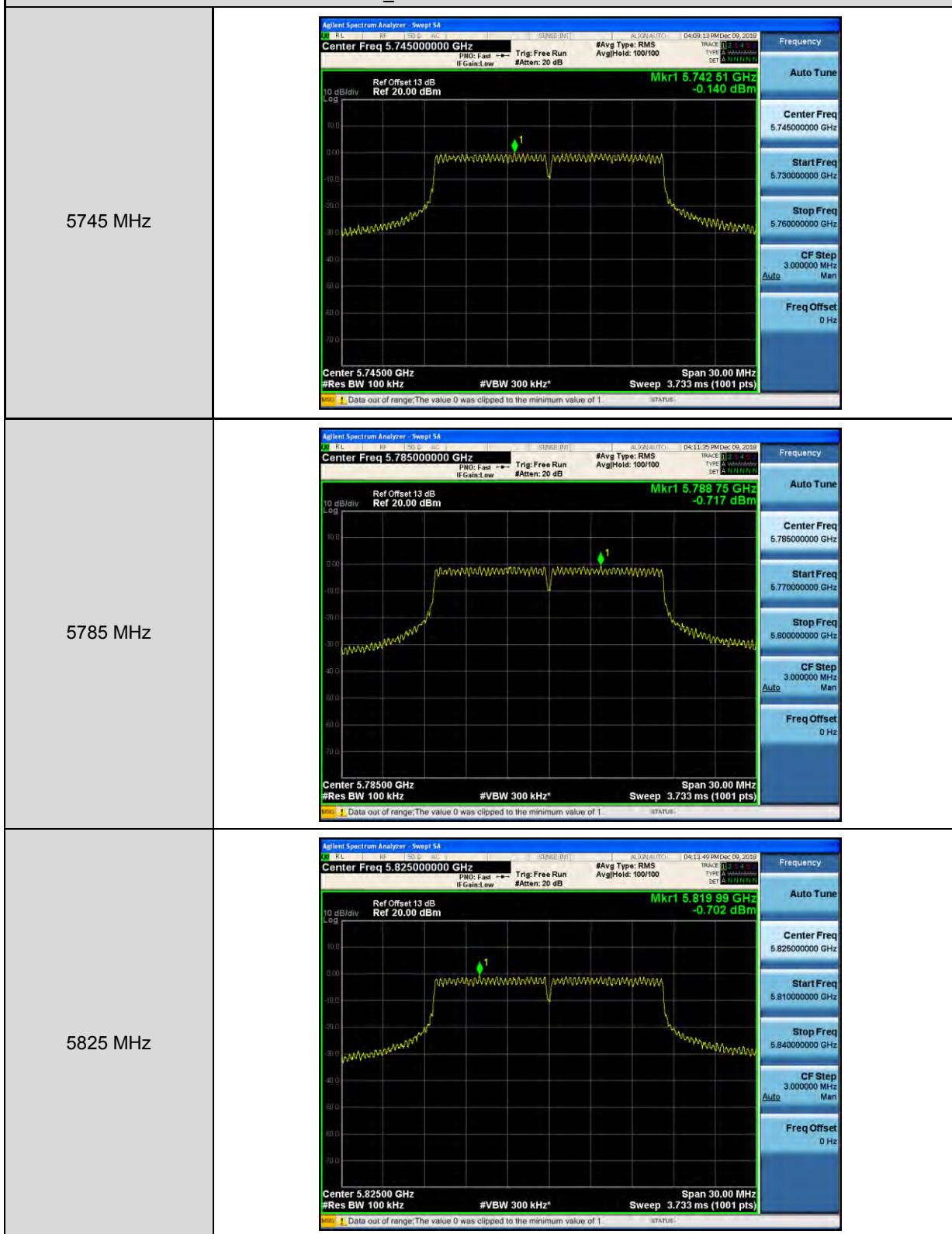
5775 MHz



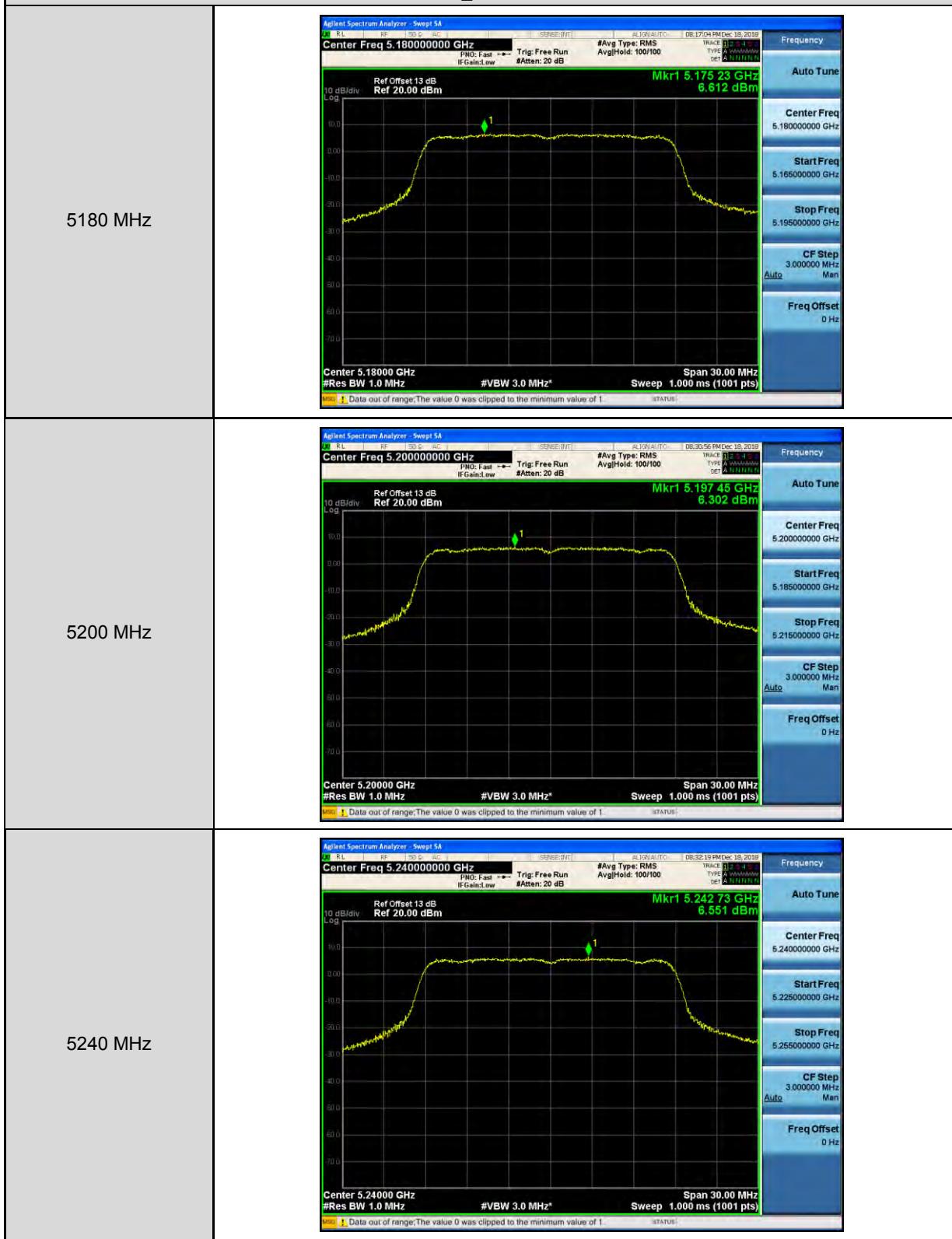
Mode 2: IEEE 802.11a Continuous TX mode_ANT-2



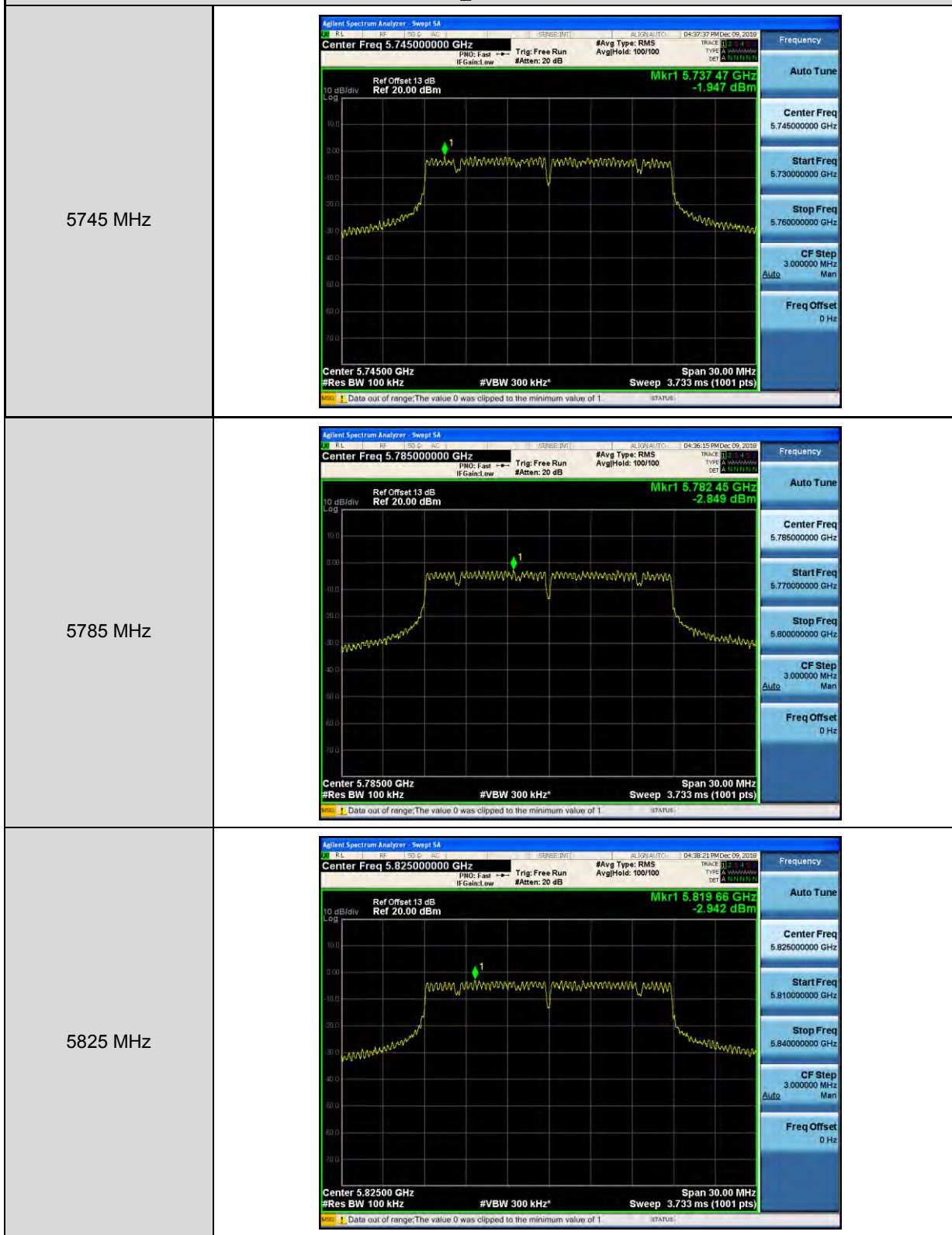
Mode 2: IEEE 802.11a Continuous TX mode _ANT-2



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2

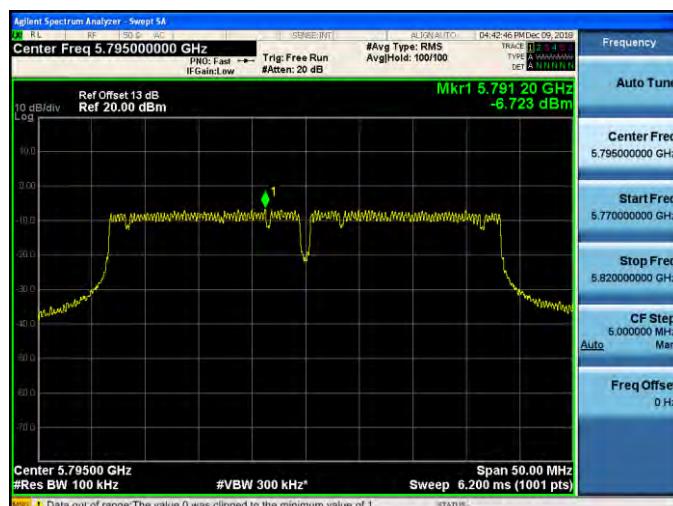


Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2

5755 MHz



5795 MHz



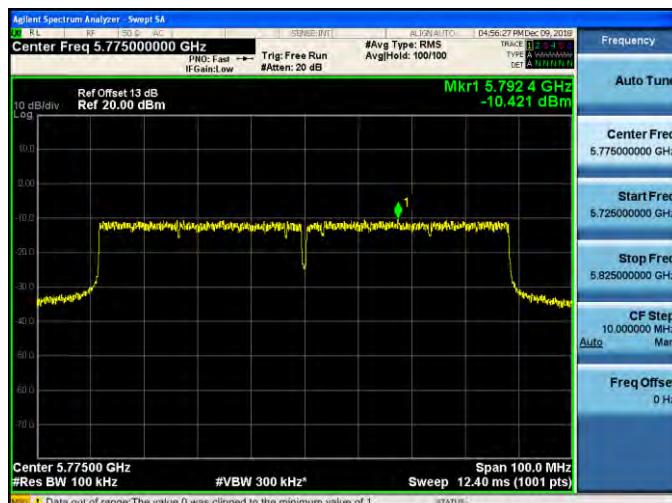
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-2

5210 MHz

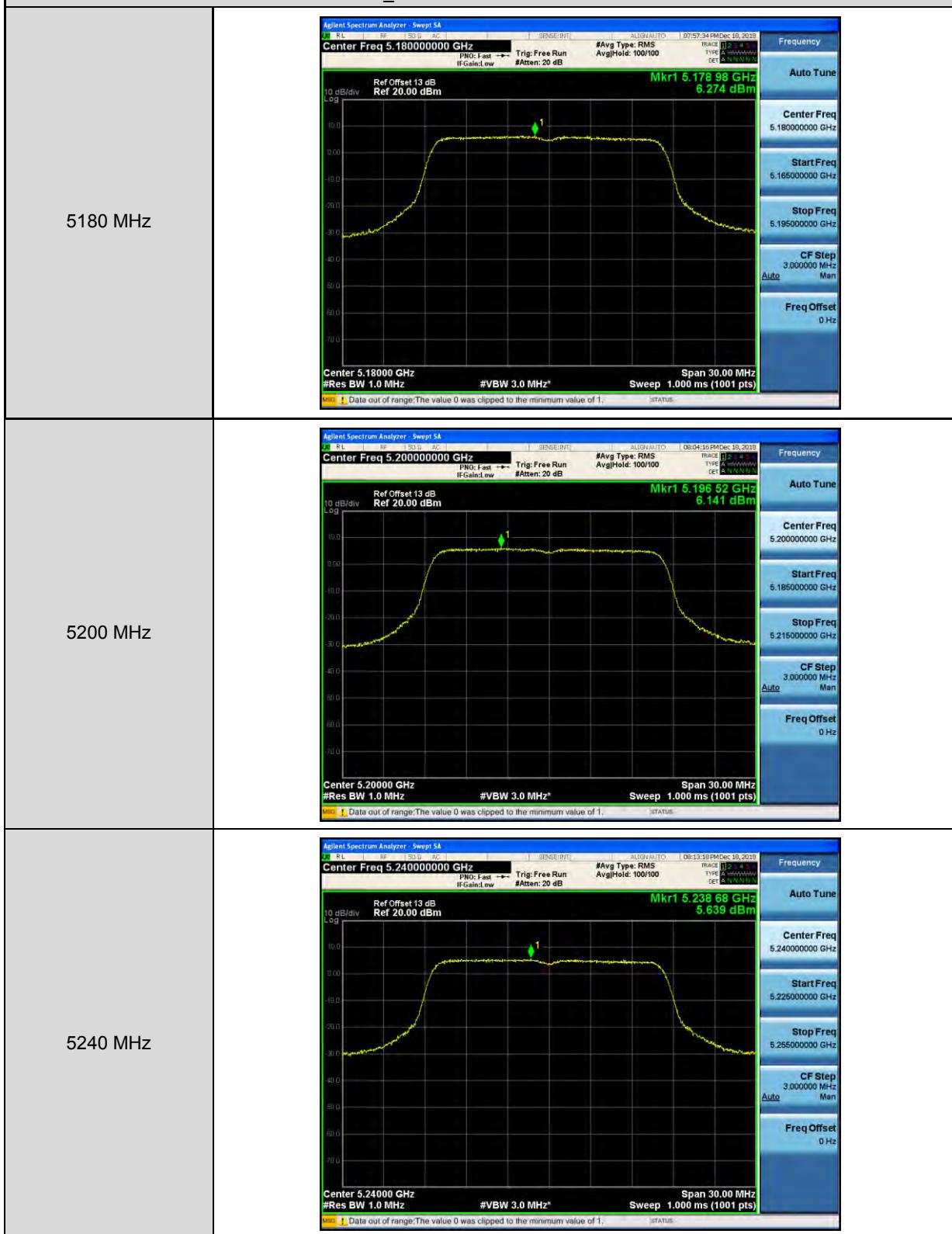


Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-2

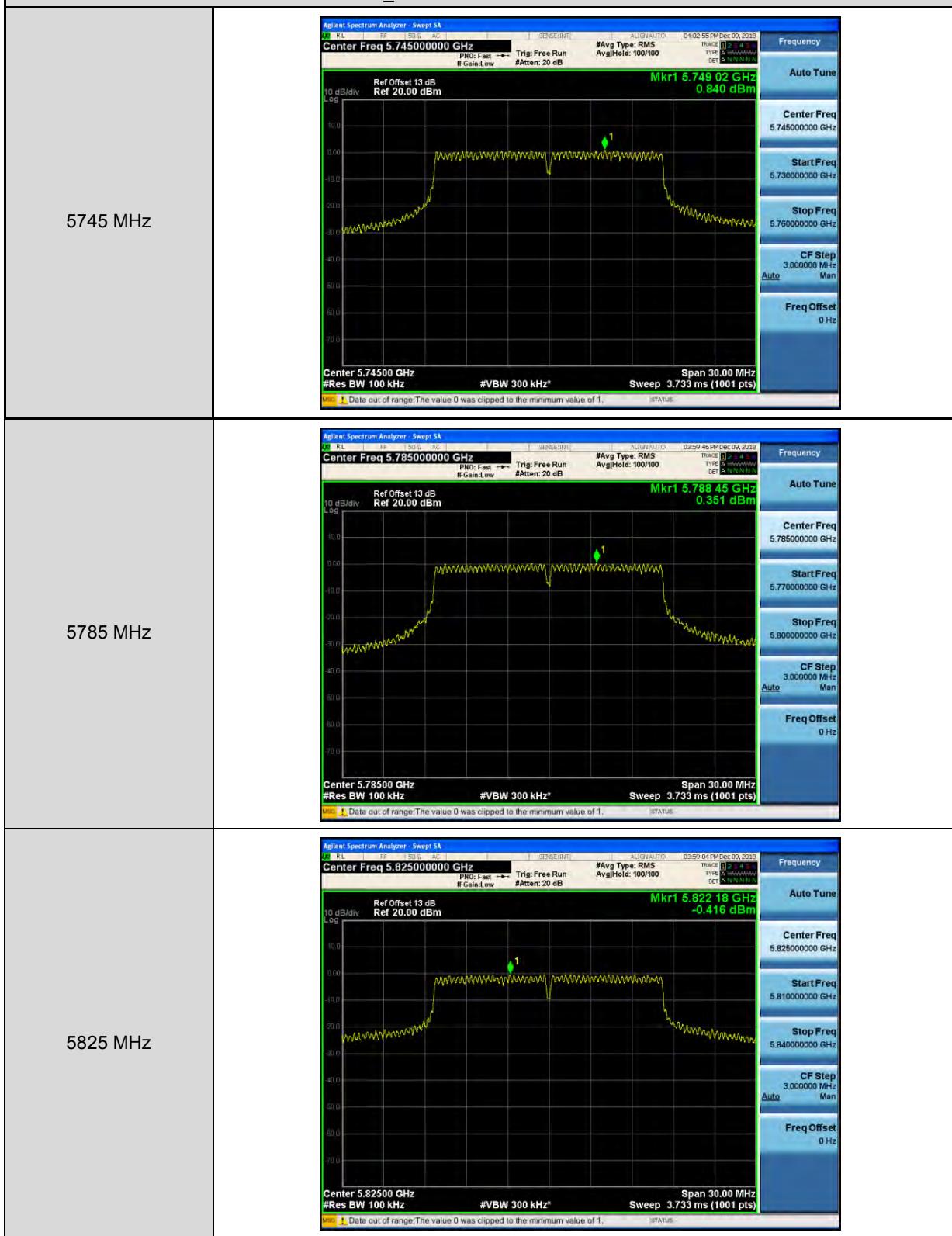
5775 MHz



Mode 2: IEEE 802.11a Continuous TX mode_ANT-3



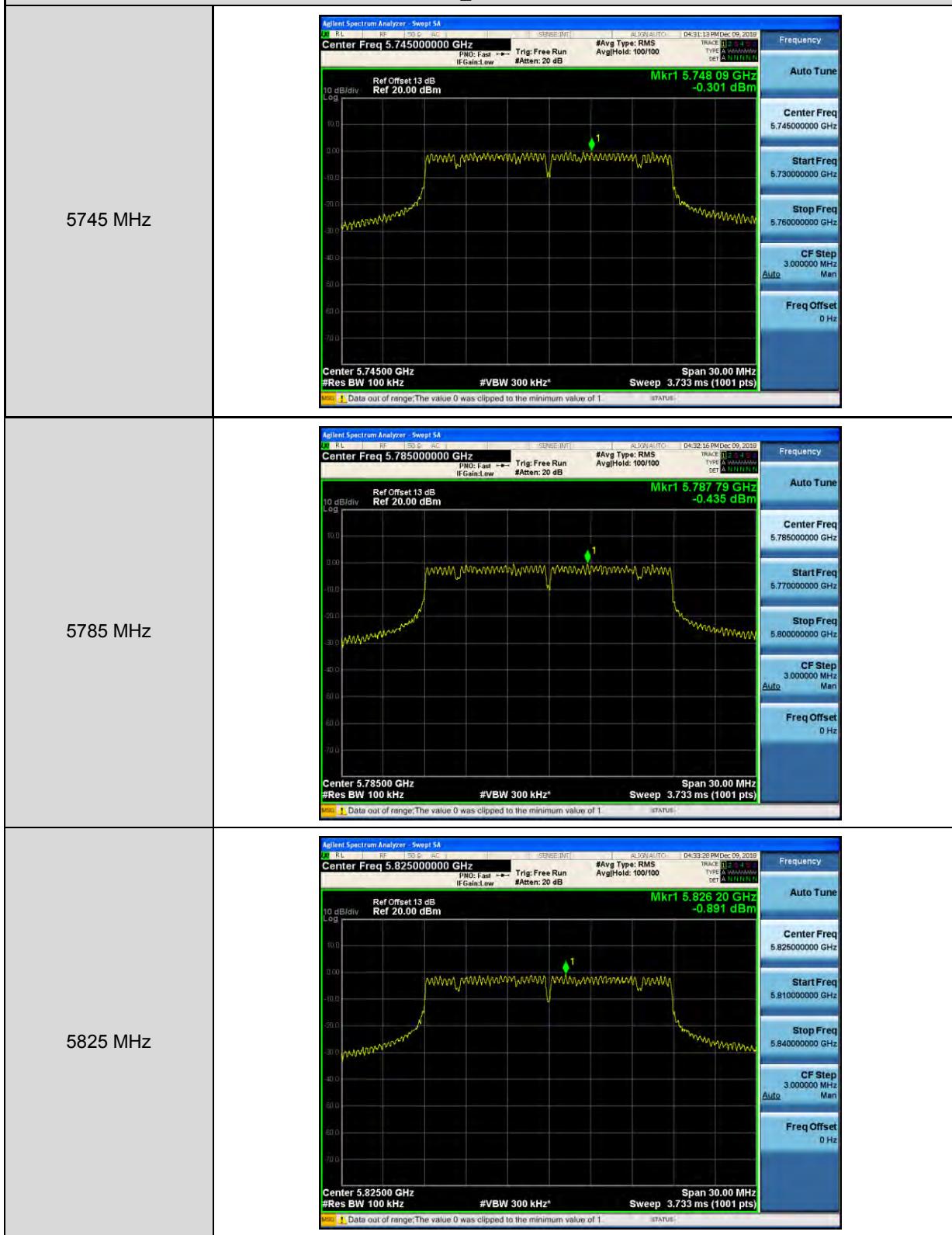
Mode 2: IEEE 802.11a Continuous TX mode _ANT-3



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3

5210 MHz



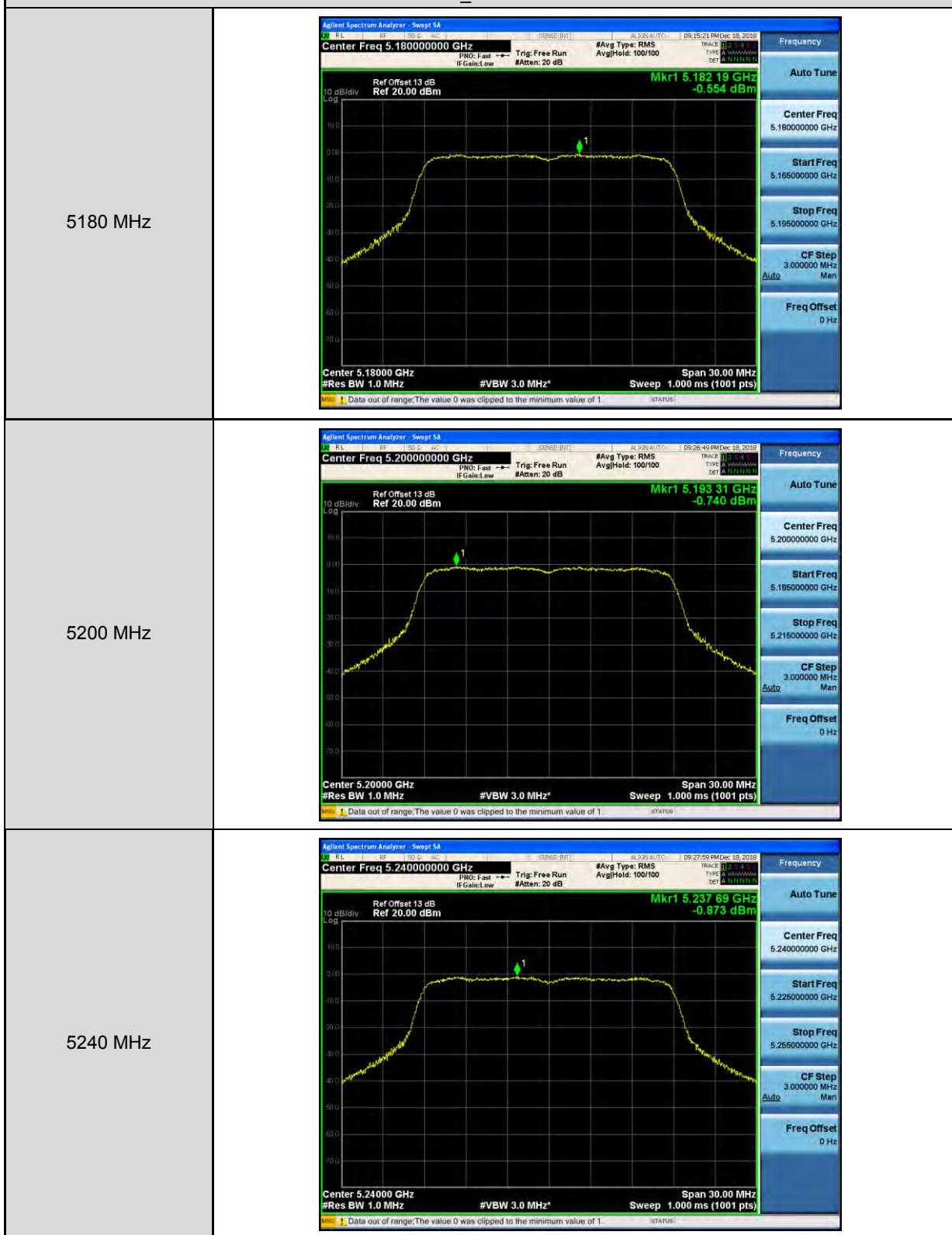
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3

5775 MHz

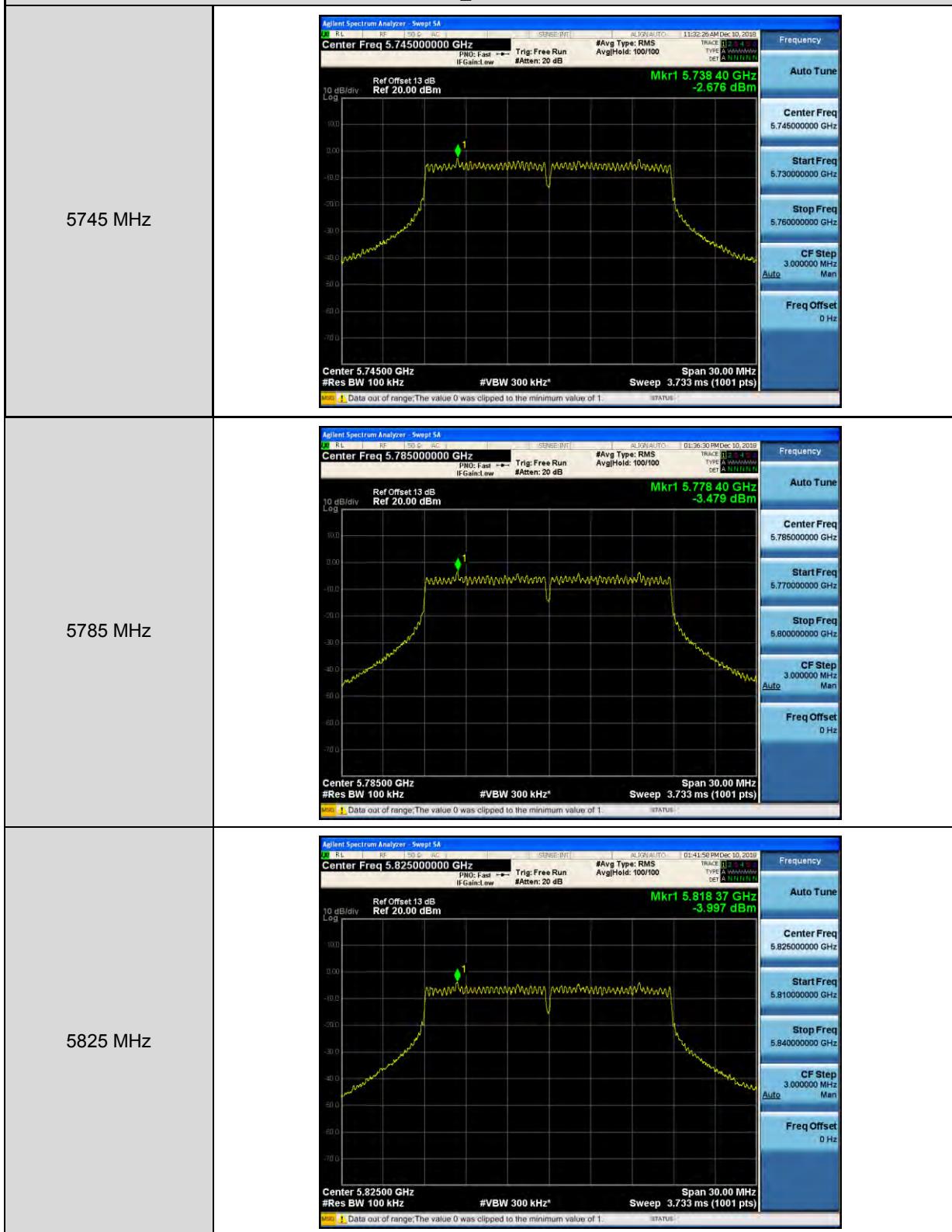


Beamforming on

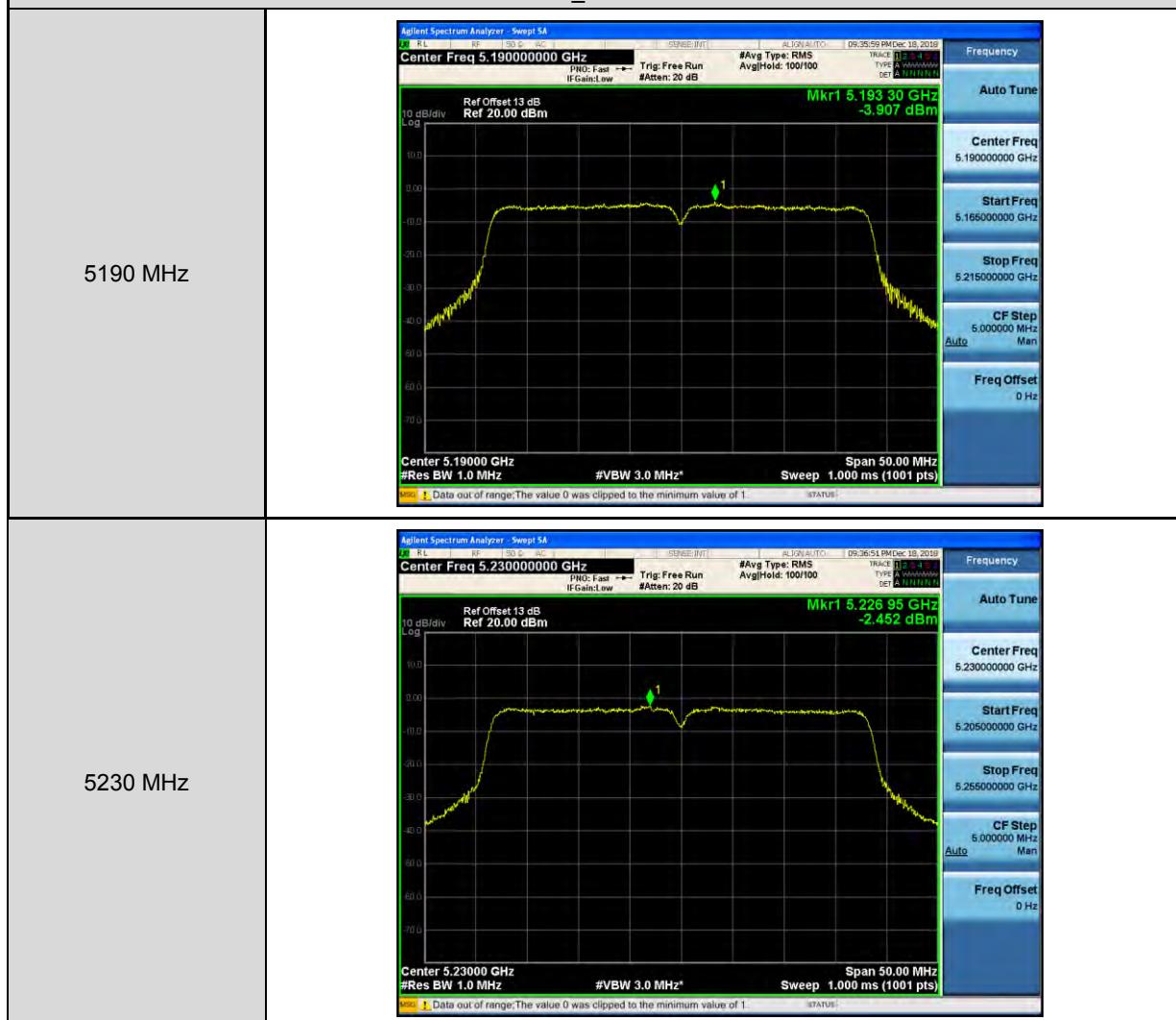
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0

