



Test Item		Maximum Conducted Output Power						
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-2		FCC Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5180	19.5M	12.64	0.018	15.92	0.039	14.17	0.026	≤ 21.35
5200		12.29	0.017	16.05	0.040	14.28	0.027	
5220		11.99	0.016	16.07	0.040	14.48	0.028	
5240		11.86	0.015	16.16	0.041	14.42	0.028	
5260		13.62	0.023	13.82	0.024	13.59	0.023	≤ 23.97
5280		13.51	0.022	14.04	0.025	13.75	0.024	
5300		13.59	0.023	14.22	0.026	13.81	0.024	
5320		13.42	0.022	14.32	0.027	13.74	0.024	
5500		11.70	0.015	14.10	0.026	13.20	0.021	≤ 23.29
5520		11.50	0.014	14.02	0.025	13.44	0.022	
5540		11.80	0.015	13.90	0.025	13.36	0.022	
5560		11.56	0.014	14.00	0.025	13.30	0.021	
5580		11.90	0.015	13.80	0.024	12.99	0.020	
5660		11.89	0.015	13.90	0.025	13.39	0.022	
5680		11.50	0.014	14.14	0.026	13.21	0.021	
5700		11.76	0.015	14.12	0.026	13.10	0.020	
5745		14.48	0.028	13.49	0.022	13.59	0.023	≤ 27.35
5765		14.39	0.027	13.38	0.022	13.41	0.022	
5785		14.31	0.027	13.28	0.021	13.54	0.023	
5805		14.21	0.026	13.02	0.020	13.45	0.022	
5825	14.16	0.026	13.54	0.023	13.47	0.022		

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



Test Item		Maximum Conducted Output Power		
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0+1+2		FCC Limit (dBm)
		Max. Output Power		
		(dBm)	(W)	
5180	19.5M	19.22	0.084	≤ 21.35
5200		19.24	0.084	
5220		19.26	0.084	
5240		19.26	0.084	
5260		18.45	0.070	≤ 20.75
5280		18.54	0.072	
5300		18.65	0.073	
5320		18.61	0.073	
5500		17.88	0.061	≤ 20.74
5520		17.88	0.061	
5540		17.88	0.061	
5560		17.84	0.061	
5580		17.74	0.059	
5660		17.91	0.062	
5680		17.85	0.061	
5700		17.87	0.061	
5745		18.65	0.073	≤ 27.35
5765		18.52	0.071	
5785		18.50	0.071	
5805		18.36	0.069	
5825	18.51	0.071		

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



Test Item		Maximum Conducted Output Power						
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-2		FCC Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5180	260.1M	12.14	0.016	15.46	0.035	13.58	0.023	≤ 21.35
5200		11.71	0.015	15.59	0.036	13.61	0.023	
5220		11.48	0.014	15.54	0.036	13.88	0.024	
5240		11.39	0.014	15.71	0.037	13.75	0.024	
5260		13.01	0.020	13.14	0.021	12.98	0.020	
5280		12.84	0.019	13.45	0.022	13.06	0.020	≤ 20.75
5300		12.99	0.020	13.53	0.023	13.21	0.021	
5320		12.81	0.019	13.61	0.023	13.12	0.021	
5500		11.02	0.013	13.43	0.022	12.59	0.018	≤ 20.74
5520		10.89	0.012	13.42	0.022	12.86	0.019	
5540		11.15	0.013	13.19	0.021	12.66	0.018	
5560		10.94	0.012	13.40	0.022	12.62	0.018	
5580		11.22	0.013	13.12	0.021	12.39	0.017	
5660		11.27	0.013	13.29	0.021	12.79	0.019	
5680		10.82	0.012	13.56	0.023	12.52	0.018	
5700		11.09	0.013	13.43	0.022	12.43	0.017	≤ 27.35
5745		13.92	0.025	12.96	0.020	12.88	0.019	
5765		13.84	0.024	12.86	0.019	12.78	0.019	
5785	13.64	0.023	12.68	0.019	12.89	0.019		
5805	13.61	0.023	12.48	0.018	12.81	0.019		
5825	13.49	0.022	12.95	0.020	12.74	0.019		

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



Test Item		Maximum Conducted Output Power		
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0+1+2		FCC Limit (dBm)
		Max. Output Power		
		(dBm)	(W)	
5180	260.1M	18.71	0.074	≤ 21.35
5200		18.69	0.074	
5220		18.71	0.074	
5240		18.73	0.075	
5260		17.82	0.060	
5280		17.90	0.062	≤ 20.75
5300		18.02	0.063	
5320		17.96	0.063	
5500		17.23	0.053	
5520		17.29	0.054	
5540		17.19	0.052	≤ 20.74
5560		17.21	0.053	
5580		17.08	0.051	
5660		17.30	0.054	
5680		17.21	0.053	
5700		17.19	0.052	≤ 27.35
5745		18.05	0.064	
5765		17.96	0.062	
5785		17.86	0.061	
5805		17.76	0.060	
5825	17.84	0.061		

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



Test Item		Maximum Conducted Output Power						
Test Mode		Mode 4: IEEE 802.11ac 40MHz Continuous TX mode						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-2		FCC Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5190	40.5M	12.22	0.017	15.53	0.036	13.89	0.024	≤ 21.35
5230		12.18	0.017	15.35	0.034	13.71	0.023	
5270		13.58	0.023	15.88	0.039	13.83	0.024	
5310		13.49	0.022	15.85	0.038	14.09	0.026	
5510		11.53	0.014	15.70	0.037	13.17	0.021	
5550		11.62	0.015	15.86	0.039	13.13	0.021	
5670		11.62	0.015	15.83	0.038	13.27	0.021	
5755		14.24	0.027	13.31	0.021	13.18	0.021	≤ 27.35
5795		14.14	0.026	12.89	0.019	13.16	0.021	
5190	600M	11.12	0.013	14.55	0.029	12.81	0.019	≤ 21.35
5230		10.96	0.012	14.15	0.026	12.49	0.018	
5270		12.71	0.019	14.91	0.031	12.98	0.020	
5310		12.51	0.018	14.89	0.031	13.19	0.021	
5510		10.59	0.011	14.81	0.030	12.29	0.017	
5550		10.76	0.012	14.89	0.031	12.19	0.017	
5670		10.77	0.012	14.89	0.031	12.32	0.017	
5755		13.08	0.020	12.01	0.016	12.04	0.016	≤ 27.35
5795		12.84	0.019	11.69	0.015	11.92	0.016	

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



Test Item		Maximum Conducted Output Power			
Test Mode		Mode 4: IEEE 802.11ac 40MHz Continuous TX mode			
Frequency (MHz)	Data Rate	ANT-0+1+2		FCC Limit (dBm)	
		Max. Output Power			
		(dBm)	(W)		
5190	40.5M	18.86	0.077	≤ 21.35	
5230		18.71	0.074		
5270		19.33	0.086		
5310		19.37	0.086		
5510		18.58	0.072		
5550		18.67	0.074		
5670		18.69	0.074		
5755		18.37	0.069		≤ 27.35
5795		18.20	0.066		
5190		600M	17.82		
5230	17.50		0.056		
5270	18.42		0.069		
5310	18.42		0.070		
5510	17.68		0.059		
5550	17.73		0.059		
5670	17.77		0.060		
5755	17.18		0.052	≤ 27.35	
5795	16.95		0.050		

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



Test Item		Maximum Conducted Output Power						
Test Mode		Mode 5: IEEE 802.11ac 80MHz Continuous TX mode						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-2		FCC Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5210	87.9M	12.29	0.017	12.86	0.019	12.81	0.019	≤ 21.35
5290		13.98	0.025	16.14	0.041	14.43	0.028	
5530		12.30	0.017	16.17	0.041	13.81	0.024	
5775		14.14	0.026	13.21	0.021	13.37	0.022	
5210	1299.9M	10.16	0.010	10.92	0.012	10.66	0.012	≤ 21.35
5290		12.32	0.017	14.32	0.027	12.65	0.018	
5530		10.66	0.012	14.32	0.027	12.16	0.016	
5775		12.22	0.017	10.91	0.012	11.08	0.013	

Test Item		Maximum Conducted Output Power				
Test Mode		Mode 5: IEEE 802.11ac 80MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0+1+2				FCC Limit (dBm)
		Max. Output Power				
		(dBm)		(W)		
5210	87.9M	17.43		0.055		≤ 21.35
5290		19.72		0.094		
5530		19.16		0.082		
5775		18.36		0.069		
5210	1299.9M	15.36		0.034		≤ 21.35
5290		17.96		0.063		
5530		17.41		0.055		
5775		16.21		0.042		

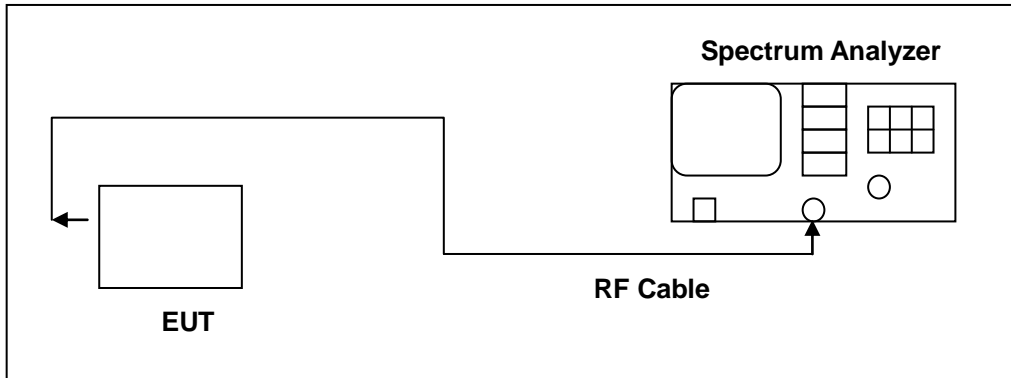
Note: The relevant measured result has the offset with cable loss already.

4.5. 26dB RF Bandwidth Measurement

■ **Limit**

N/A

■ **Test Setup**



■ **Test Instruments**

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2016	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1 500	140303	02/22/2017	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ **Test Procedure**

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r04, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	>26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



■ Test Result

Test Item	26dB RF Bandwidth Measurement	
Test Mode	Mode 2: IEEE 802.11a Continuous TX mode	
Frequency (MHz)	ANT-0	
	26dB Bandwidth (MHz)	
5180	24.790	
5200	24.580	
5240	24.590	
5260	37.990	
5280	36.860	
5320	36.770	
5500	32.370	
5560	33.300	
5700	32.850	

Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode		
Frequency (MHz)	Ant-0	Ant-1	Ant-2
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
5180	20.530	20.150	20.040
5200	20.430	20.080	20.190
5240	20.450	19.970	20.020
5260	19.960	19.850	19.980
5280	20.060	19.890	19.880
5320	20.000	20.080	20.030
5500	19.950	19.780	19.790
5560	20.010	19.800	19.980
5700	20.050	19.950	20.030



Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 4: IEEE 802.11ac 40MHz Continuous TX mode		
Frequency (MHz)	Ant-0	Ant-1	Ant-2
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
5190	40.350	40.770	40.430
5230	40.640	40.730	40.230
5270	41.090	40.370	41.190
5310	41.140	40.140	41.370
5510	40.980	40.260	41.090
5550	40.760	40.220	41.130
5670	41.160	40.580	40.860

Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 5: IEEE 802.11ac 80MHz Continuous TX mode		
Frequency (MHz)	Ant-0	Ant-1	Ant-2
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
5210	81.460	81.160	81.120
5290	80.960	81.200	81.290
5530	81.040	80.690	80.850
5610	80.970	80.330	80.900



■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.18000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.18000000 GHz</p> <p>Center Freq: 5.18000000 GHz</p> <p>CF Step: 2.500000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 16.536 MHz Total Power: 23.9 dBm Transmit Freq Error: -17.625 kHz OBW Power: 99.00 % x dB Bandwidth: 24.79 MHz x dB: -26.00 dB</p>
5200 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.20000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.20000000 GHz</p> <p>Center Freq: 5.20000000 GHz</p> <p>CF Step: 2.500000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 16.579 MHz Total Power: 24.5 dBm Transmit Freq Error: -17.519 kHz OBW Power: 99.00 % x dB Bandwidth: 24.58 MHz x dB: -26.00 dB</p>
5240 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.24000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.24000000 GHz</p> <p>Center Freq: 5.24000000 GHz</p> <p>CF Step: 2.500000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 16.537 MHz Total Power: 24.2 dBm Transmit Freq Error: -6.118 kHz OBW Power: 99.00 % x dB Bandwidth: 24.59 MHz x dB: -26.00 dB</p>



Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5260 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.26000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 360 kHz #VBW: 1.1 MHz Span: 40 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 21.656 MHz</p> <p>Total Power: 28.0 dBm</p> <p>Transmit Freq Error: -216.30 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 37.99 MHz x dB: -26.00 dB</p>
5280 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.28000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 360 kHz #VBW: 1.1 MHz Span: 40 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 20.387 MHz</p> <p>Total Power: 27.7 dBm</p> <p>Transmit Freq Error: -94.141 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.86 MHz x dB: -26.00 dB</p>
5320 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.32000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 360 kHz #VBW: 1.1 MHz Span: 40 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 19.813 MHz</p> <p>Total Power: 27.8 dBm</p> <p>Transmit Freq Error: -105.98 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.77 MHz x dB: -26.00 dB</p>



Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5500 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 360 kHz #VBW: 1.1 MHz Span: 40 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 16.932 MHz</p> <p>Total Power: 26.9 dBm</p> <p>Transmit Freq Error: -59.636 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 32.37 MHz x dB: -26.00 dB</p>
5560 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 360 kHz #VBW: 1.1 MHz Span: 40 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 17.242 MHz</p> <p>Total Power: 27.8 dBm</p> <p>Transmit Freq Error: -35.864 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 33.30 MHz x dB: -26.00 dB</p>
5700 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 360 kHz #VBW: 1.1 MHz Span: 40 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 16.999 MHz</p> <p>Total Power: 27.2 dBm</p> <p>Transmit Freq Error: -65.180 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 32.85 MHz x dB: -26.00 dB</p>



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-0	
5180 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.18000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.18000000 GHz</p> <p>Center Freq: 5.18000000 GHz</p> <p>CF Step: 2.500000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.454 MHz Total Power: 12.3 dBm</p> <p>Transmit Freq Error: -38.112 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.53 MHz x dB: -26.00 dB</p>
5200 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.20000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.20000000 GHz</p> <p>Center Freq: 5.20000000 GHz</p> <p>CF Step: 2.500000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.463 MHz Total Power: 11.5 dBm</p> <p>Transmit Freq Error: -15.777 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.43 MHz x dB: -26.00 dB</p>
5240 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.24000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.24000000 GHz</p> <p>Center Freq: 5.24000000 GHz</p> <p>CF Step: 2.500000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.435 MHz Total Power: 10.4 dBm</p> <p>Transmit Freq Error: -5.700 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.45 MHz x dB: -26.00 dB</p>



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-0	
5260 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.26000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.373 MHz</p> <p>Total Power 19.3 dBm</p> <p>Transmit Freq Error -12.868 kHz x dB Bandwidth 19.96 MHz</p> <p>OBW Power 99.00 % x dB -26.00 dB</p> <p>Center Freq 5.26000000 GHz CF Step 2.500000 MHz Freq Offset 0 Hz</p>
5280 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.28000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.371 MHz</p> <p>Total Power 19.1 dBm</p> <p>Transmit Freq Error -5.891 kHz x dB Bandwidth 20.06 MHz</p> <p>OBW Power 99.00 % x dB -26.00 dB</p> <p>Center Freq 5.28000000 GHz CF Step 2.500000 MHz Freq Offset 0 Hz</p>
5320 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.32000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.372 MHz</p> <p>Total Power 18.6 dBm</p> <p>Transmit Freq Error -12.996 kHz x dB Bandwidth 20.00 MHz</p> <p>OBW Power 99.00 % x dB -26.00 dB</p> <p>Center Freq 5.32000000 GHz CF Step 2.500000 MHz Freq Offset 0 Hz</p>



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-0																			
5500 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>19.3 dBm</td> </tr> <tr> <td>17.406 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>10.457 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.95 MHz</td> <td></td> <td></td> </tr> </table> <p>Center Freq: 5.500000000 GHz CF Step: 2.500000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	19.3 dBm	17.406 MHz			Transmit Freq Error	OBW Power	99.00 %	10.457 kHz	x dB	-26.00 dB	x dB Bandwidth			19.95 MHz		
Occupied Bandwidth	Total Power	19.3 dBm																	
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19.95 MHz																			
5560 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>19.3 dBm</td> </tr> <tr> <td>17.346 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-2.833 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>20.01 MHz</td> <td></td> <td></td> </tr> </table> <p>Center Freq: 5.560000000 GHz CF Step: 2.500000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	19.3 dBm	17.346 MHz			Transmit Freq Error	OBW Power	99.00 %	-2.833 kHz	x dB	-26.00 dB	x dB Bandwidth			20.01 MHz		
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-2.833 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
20.01 MHz																			
5700 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>19.6 dBm</td> </tr> <tr> <td>17.368 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-8.230 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>20.05 MHz</td> <td></td> <td></td> </tr> </table> <p>Center Freq: 5.700000000 GHz CF Step: 2.500000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	19.6 dBm	17.368 MHz			Transmit Freq Error	OBW Power	99.00 %	-8.230 kHz	x dB	-26.00 dB	x dB Bandwidth			20.05 MHz		
Occupied Bandwidth	Total Power	19.6 dBm																	
17.368 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-8.230 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
20.05 MHz																			



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0																			
5190 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.19000000 GHz</p> <p>Center Freq: 5.19000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.19 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.9 dBm</td></tr><tr><td>35.657 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-9.170 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>40.35 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	13.9 dBm	35.657 MHz			Transmit Freq Error	OBW Power	99.00 %	-9.170 kHz			x dB Bandwidth	x dB	-26.00 dB	40.35 MHz		
Occupied Bandwidth	Total Power	13.9 dBm																	
35.657 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-9.170 kHz																			
x dB Bandwidth	x dB	-26.00 dB																	
40.35 MHz																			
5230 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.23000000 GHz</p> <p>Center Freq: 5.23000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.23 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.0 dBm</td></tr><tr><td>35.649 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-18.452 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>40.64 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	13.0 dBm	35.649 MHz			Transmit Freq Error	OBW Power	99.00 %	-18.452 kHz			x dB Bandwidth	x dB	-26.00 dB	40.64 MHz		
Occupied Bandwidth	Total Power	13.0 dBm																	
35.649 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-18.452 kHz																			
x dB Bandwidth	x dB	-26.00 dB																	
40.64 MHz																			



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0																			
5270 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.27000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.27 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.6 dBm</td></tr><tr><td>35.690 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-33.327 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>41.09 MHz</td><td></td><td></td></tr></table> <p>Frequency: 5.27000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.6 dBm	35.690 MHz			Transmit Freq Error	OBW Power	99.00 %	-33.327 kHz	x dB	-26.00 dB	x dB Bandwidth			41.09 MHz		
Occupied Bandwidth	Total Power	23.6 dBm																	
35.690 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-33.327 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
41.09 MHz																			
5310 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.31000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.31 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.1 dBm</td></tr><tr><td>35.683 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-31.384 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>41.14 MHz</td><td></td><td></td></tr></table> <p>Frequency: 5.31000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.1 dBm	35.683 MHz			Transmit Freq Error	OBW Power	99.00 %	-31.384 kHz	x dB	-26.00 dB	x dB Bandwidth			41.14 MHz		
Occupied Bandwidth	Total Power	23.1 dBm																	
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Transmit Freq Error	OBW Power	99.00 %																	
-31.384 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
41.14 MHz																			



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0	
5510 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.51000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.51 GHz #Res BW 1 MHz</p> <p>Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 35.707 MHz</p> <p>Total Power 23.3 dBm</p> <p>Transmit Freq Error -33.264 kHz</p> <p>x dB Bandwidth 40.98 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p> <p>Center Freq 5.51000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>
5550 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.55000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.55 GHz #Res BW 1 MHz</p> <p>Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 35.642 MHz</p> <p>Total Power 23.6 dBm</p> <p>Transmit Freq Error -16.912 kHz</p> <p>x dB Bandwidth 40.76 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p> <p>Center Freq 5.55000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>
5670 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.67000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.67 GHz #Res BW 1 MHz</p> <p>Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 35.686 MHz</p> <p>Total Power 23.6 dBm</p> <p>Transmit Freq Error -19.211 kHz</p> <p>x dB Bandwidth 41.16 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p> <p>Center Freq 5.67000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-0																			
5210 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.210000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.210000000 GHz</p> <p>Center Freq: 5.210000000 GHz</p> <p>CF Step: 9.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.21 GHz #Res BW 1 MHz #VBW 3 MHz Span 90 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.7 dBm</td></tr><tr><td>75.262 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-13.258 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>81.46 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	13.7 dBm	75.262 MHz			Transmit Freq Error	OBW Power	99.00 %	-13.258 kHz	x dB	-26.00 dB	x dB Bandwidth			81.46 MHz		
Occupied Bandwidth	Total Power	13.7 dBm																	
75.262 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-13.258 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
81.46 MHz																			
5290 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.290000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.290000000 GHz</p> <p>Center Freq: 5.290000000 GHz</p> <p>CF Step: 10.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.29 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.4 dBm</td></tr><tr><td>74.870 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-109.82 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>80.96 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	23.4 dBm	74.870 MHz			Transmit Freq Error	OBW Power	99.00 %	-109.82 kHz	x dB	-26.00 dB	x dB Bandwidth			80.96 MHz		
Occupied Bandwidth	Total Power	23.4 dBm																	
74.870 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-109.82 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
80.96 MHz																			



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-0																			
5530 MHz	<p>Agilent Spectrum Analyzer: Occupied BW</p> <p>Center Freq: 5.530000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.53000000 GHz</p> <p>Center Freq: 5.53000000 GHz</p> <p>CF Step: 10.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center: 5.53 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 100 MHz Sweep: 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.7 dBm</td></tr><tr><td>74.991 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-15.430 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>81.04 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	23.7 dBm	74.991 MHz			Transmit Freq Error	OBW Power	99.00 %	-15.430 kHz			x dB Bandwidth	x dB	-26.00 dB	81.04 MHz		
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5610 MHz	<p>Agilent Spectrum Analyzer: Occupied BW</p> <p>Center Freq: 5.610000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.61000000 GHz</p> <p>Center Freq: 5.61000000 GHz</p> <p>CF Step: 10.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center: 5.61 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 100 MHz Sweep: 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>24.3 dBm</td></tr><tr><td>74.955 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-29.557 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>80.97 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	24.3 dBm	74.955 MHz			Transmit Freq Error	OBW Power	99.00 %	-29.557 kHz			x dB Bandwidth	x dB	-26.00 dB	80.97 MHz		
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x dB Bandwidth	x dB	-26.00 dB																	
80.97 MHz																			



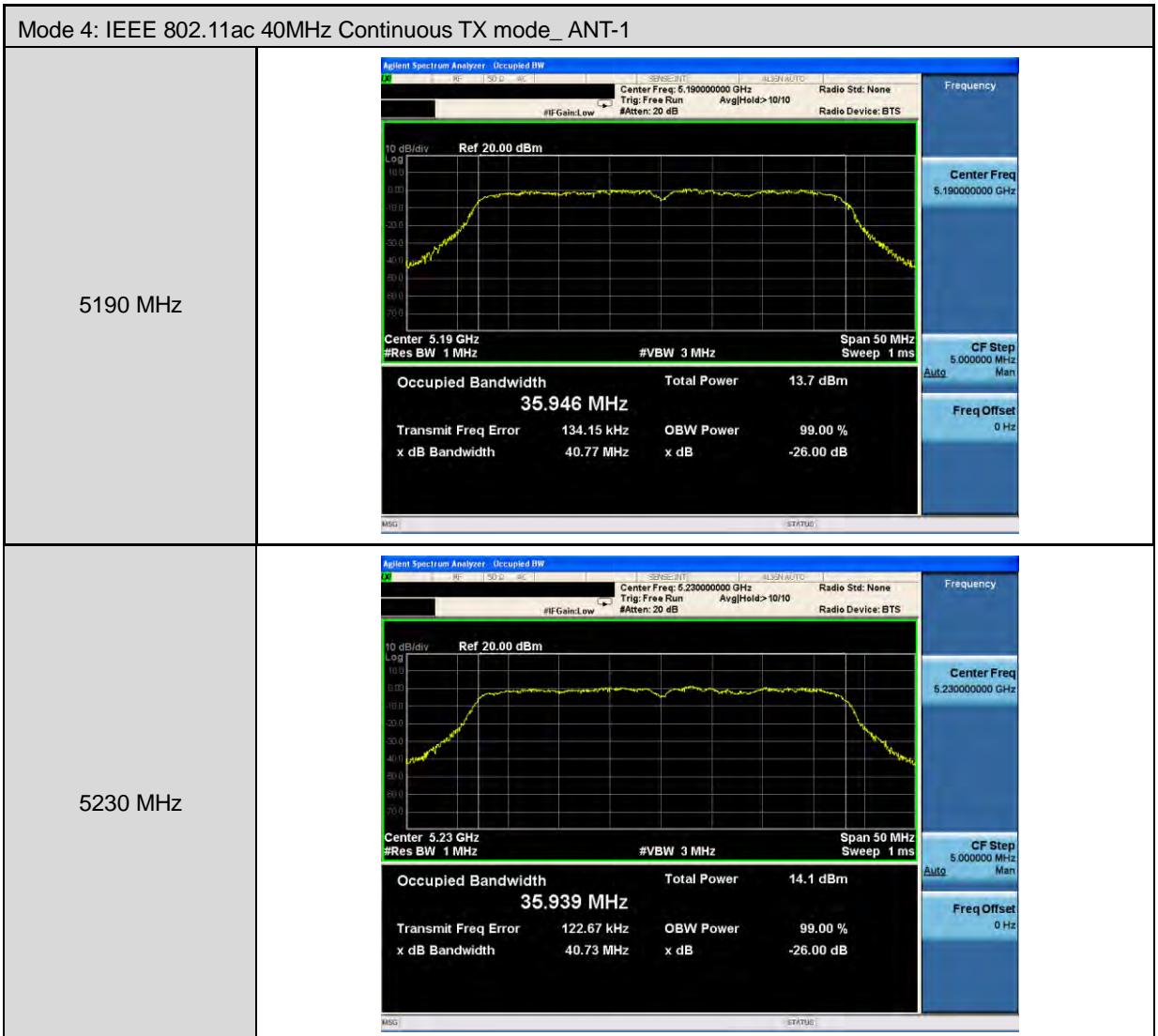
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-1																			
5180 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.18000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.5 dBm</td> </tr> <tr> <td>17.515 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>20.811 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>20.15 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.5 dBm	17.515 MHz			Transmit Freq Error	OBW Power	99.00 %	20.811 kHz			x dB Bandwidth	x dB	-26.00 dB	20.15 MHz		
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20.15 MHz																			
5200 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.20000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.8 dBm</td> </tr> <tr> <td>17.521 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>15.886 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>20.08 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.8 dBm	17.521 MHz			Transmit Freq Error	OBW Power	99.00 %	15.886 kHz			x dB Bandwidth	x dB	-26.00 dB	20.08 MHz		
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5240 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.24000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.8 dBm</td> </tr> <tr> <td>17.495 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>17.321 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>19.97 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.8 dBm	17.495 MHz			Transmit Freq Error	OBW Power	99.00 %	17.321 kHz			x dB Bandwidth	x dB	-26.00 dB	19.97 MHz		
Occupied Bandwidth	Total Power	12.8 dBm																	
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x dB Bandwidth	x dB	-26.00 dB																	
19.97 MHz																			



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-1	
5260 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.26000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.431 MHz Total Power: 19.3 dBm Transmit Freq Error: 2.278 kHz OBW Power: 99.00 % x dB Bandwidth: 19.85 MHz x dB: -26.00 dB</p>
5280 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.28000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.448 MHz Total Power: 19.4 dBm Transmit Freq Error: -17.802 kHz OBW Power: 99.00 % x dB Bandwidth: 19.89 MHz x dB: -26.00 dB</p>
5320 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.32000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.420 MHz Total Power: 21.0 dBm Transmit Freq Error: 13.732 kHz OBW Power: 99.00 % x dB Bandwidth: 20.08 MHz x dB: -26.00 dB</p>



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-1																			
5500 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>19.7 dBm</td> </tr> <tr> <td>17.423 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>11.392 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.78 MHz</td> <td></td> <td></td> </tr> </table> <p>Frequency: 5.50000000 GHz CF Step: 2.500000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	19.7 dBm	17.423 MHz			Transmit Freq Error	OBW Power	99.00 %	11.392 kHz	x dB	-26.00 dB	x dB Bandwidth			19.78 MHz		
Occupied Bandwidth	Total Power	19.7 dBm																	
17.423 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
11.392 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
19.78 MHz																			
5560 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>19.7 dBm</td> </tr> <tr> <td>17.436 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-319 Hz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.80 MHz</td> <td></td> <td></td> </tr> </table> <p>Frequency: 5.56000000 GHz CF Step: 2.500000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	19.7 dBm	17.436 MHz			Transmit Freq Error	OBW Power	99.00 %	-319 Hz	x dB	-26.00 dB	x dB Bandwidth			19.80 MHz		
Occupied Bandwidth	Total Power	19.7 dBm																	
17.436 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-319 Hz	x dB	-26.00 dB																	
x dB Bandwidth																			
19.80 MHz																			
5700 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>20.2 dBm</td> </tr> <tr> <td>17.404 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-1.674 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.95 MHz</td> <td></td> <td></td> </tr> </table> <p>Frequency: 5.70000000 GHz CF Step: 2.500000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	20.2 dBm	17.404 MHz			Transmit Freq Error	OBW Power	99.00 %	-1.674 kHz	x dB	-26.00 dB	x dB Bandwidth			19.95 MHz		
Occupied Bandwidth	Total Power	20.2 dBm																	
17.404 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-1.674 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
19.95 MHz																			





Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1																			
5270 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.27000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.27 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.9 dBm</td></tr><tr><td>35.695 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>60.406 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>40.37 MHz</td><td></td><td></td></tr></table> <p>Center Freq: 5.27000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.9 dBm	35.695 MHz			Transmit Freq Error	OBW Power	99.00 %	60.406 kHz	x dB	-26.00 dB	x dB Bandwidth			40.37 MHz		
Occupied Bandwidth	Total Power	23.9 dBm																	
35.695 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
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x dB Bandwidth																			
40.37 MHz																			
5310 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.31000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.31 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.5 dBm</td></tr><tr><td>35.646 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>54.935 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>40.14 MHz</td><td></td><td></td></tr></table> <p>Center Freq: 5.31000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.5 dBm	35.646 MHz			Transmit Freq Error	OBW Power	99.00 %	54.935 kHz	x dB	-26.00 dB	x dB Bandwidth			40.14 MHz		
Occupied Bandwidth	Total Power	23.5 dBm																	
35.646 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
54.935 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
40.14 MHz																			



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1	
5510 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.51000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>10 dB/div Log Ref 20.00 dBm</p> <p>Center 5.51 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 35.645 MHz</p> <p>Total Power 23.2 dBm</p> <p>Transmit Freq Error -1.607 kHz x dB Bandwidth 40.26 MHz</p> <p>OBW Power 99.00 % x dB -26.00 dB</p> <p>Frequency Center Freq 5.51000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz</p>
5550 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.55000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>10 dB/div Log Ref 20.00 dBm</p> <p>Center 5.55 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 35.707 MHz</p> <p>Total Power 23.7 dBm</p> <p>Transmit Freq Error -13.800 kHz x dB Bandwidth 40.22 MHz</p> <p>OBW Power 99.00 % x dB -26.00 dB</p> <p>Frequency Center Freq 5.55000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz</p>
5670 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.67000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>10 dB/div Log Ref 20.00 dBm</p> <p>Center 5.67 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 35.715 MHz</p> <p>Total Power 24.3 dBm</p> <p>Transmit Freq Error 27.373 kHz x dB Bandwidth 40.58 MHz</p> <p>OBW Power 99.00 % x dB -26.00 dB</p> <p>Frequency Center Freq 5.67000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz</p>



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-1																			
5210 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.210000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.210000000 GHz</p> <p>Center Freq: 5.210000000 GHz</p> <p>CF Step: 9.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.21 GHz #Res BW 1 MHz #VBW 3 MHz Span 90 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>13.5 dBm</td> </tr> <tr> <td>75.127 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>204.71 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>81.16 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	13.5 dBm	75.127 MHz			Transmit Freq Error	OBW Power	99.00 %	204.71 kHz			x dB Bandwidth	x dB	-26.00 dB	81.16 MHz		
Occupied Bandwidth	Total Power	13.5 dBm																	
75.127 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
204.71 kHz																			
x dB Bandwidth	x dB	-26.00 dB																	
81.16 MHz																			
5290 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.290000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.290000000 GHz</p> <p>Center Freq: 5.290000000 GHz</p> <p>CF Step: 10.000000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.29 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>23.6 dBm</td> </tr> <tr> <td>75.082 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>137.70 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>81.20 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	23.6 dBm	75.082 MHz			Transmit Freq Error	OBW Power	99.00 %	137.70 kHz			x dB Bandwidth	x dB	-26.00 dB	81.20 MHz		
Occupied Bandwidth	Total Power	23.6 dBm																	
75.082 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
137.70 kHz																			
x dB Bandwidth	x dB	-26.00 dB																	
81.20 MHz																			



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-1																			
5530 MHz	<p>Agilent Spectrum Analyzer: Occupied BW</p> <p>Center Freq: 5.53000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.53 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>23.4 dBm</td> </tr> <tr> <td>75.074 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-6.769 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>80.69 MHz</td> <td></td> <td></td> </tr> </table> <p>Center Freq: 5.53000000 GHz CF Step: 10.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.4 dBm	75.074 MHz			Transmit Freq Error	OBW Power	99.00 %	-6.769 kHz	x dB	-26.00 dB	x dB Bandwidth			80.69 MHz		
Occupied Bandwidth	Total Power	23.4 dBm																	
75.074 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-6.769 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
80.69 MHz																			
5610 MHz	<p>Agilent Spectrum Analyzer: Occupied BW</p> <p>Center Freq: 5.61000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.61 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>23.8 dBm</td> </tr> <tr> <td>75.081 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-39.350 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>80.33 MHz</td> <td></td> <td></td> </tr> </table> <p>Center Freq: 5.61000000 GHz CF Step: 10.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.8 dBm	75.081 MHz			Transmit Freq Error	OBW Power	99.00 %	-39.350 kHz	x dB	-26.00 dB	x dB Bandwidth			80.33 MHz		
Occupied Bandwidth	Total Power	23.8 dBm																	
75.081 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-39.350 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
80.33 MHz																			



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-2	
5180 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.18000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.18000000 GHz</p> <p>Center Freq: 5.18000000 GHz</p> <p>CF Step: 2.500000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.482 MHz Total Power: 12.2 dBm Transmit Freq Error: 9.045 kHz OBW Power: 99.00 % x dB Bandwidth: 20.04 MHz x dB: -26.00 dB</p>
5200 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.20000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.20000000 GHz</p> <p>Center Freq: 5.20000000 GHz</p> <p>CF Step: 2.500000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.482 MHz Total Power: 12.1 dBm Transmit Freq Error: 15.563 kHz OBW Power: 99.00 % x dB Bandwidth: 20.19 MHz x dB: -26.00 dB</p>
5240 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.24000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.24000000 GHz</p> <p>Center Freq: 5.24000000 GHz</p> <p>CF Step: 2.500000 MHz Auto Man</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.487 MHz Total Power: 12.3 dBm Transmit Freq Error: 25.934 kHz OBW Power: 99.00 % x dB Bandwidth: 20.02 MHz x dB: -26.00 dB</p>



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-2	
5260 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.26000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.404 MHz</p> <p>Total Power: 20.4 dBm</p> <p>Transmit Freq Error: 7.752 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.98 MHz</p> <p>x dB: -26.00 dB</p>
5280 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.28000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.420 MHz</p> <p>Total Power: 19.9 dBm</p> <p>Transmit Freq Error: 22.637 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.88 MHz</p> <p>x dB: -26.00 dB</p>
5320 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.32000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.407 MHz</p> <p>Total Power: 19.9 dBm</p> <p>Transmit Freq Error: 15.535 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.03 MHz</p> <p>x dB: -26.00 dB</p>



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-2	
5500 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 300 kHz #VBW: 1 MHz Span: 25 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 17.412 MHz</p> <p>Total Power: 19.3 dBm</p> <p>Transmit Freq Error: 16.483 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.79 MHz</p> <p>x dB: -26.00 dB</p>
5560 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 300 kHz #VBW: 1 MHz Span: 25 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 17.423 MHz</p> <p>Total Power: 20.0 dBm</p> <p>Transmit Freq Error: 10.273 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.98 MHz</p> <p>x dB: -26.00 dB</p>
5700 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run AvgHold: >10/10 #Res BW: 300 kHz #VBW: 1 MHz Span: 25 MHz Sweep: 1 ms</p> <p>Ref 20.00 dBm</p> <p>Occupied Bandwidth: 17.419 MHz</p> <p>Total Power: 20.5 dBm</p> <p>Transmit Freq Error: 6.903 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.03 MHz</p> <p>x dB: -26.00 dB</p>



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-2															
5190 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.190000000 GHz Trig: Free Run #FGain: Low #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.19000000 GHz</p> <p>Center Freq: 5.19000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.19 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>14.1 dBm</td></tr><tr><td>35.771 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>21.684 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>40.43 MHz</td><td>x dB</td><td>-26.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	14.1 dBm	35.771 MHz			Transmit Freq Error	21.684 kHz	OBW Power	99.00 %	x dB Bandwidth	40.43 MHz	x dB	-26.00 dB
Occupied Bandwidth	Total Power	14.1 dBm													
35.771 MHz															
Transmit Freq Error	21.684 kHz	OBW Power	99.00 %												
x dB Bandwidth	40.43 MHz	x dB	-26.00 dB												
5230 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.230000000 GHz Trig: Free Run #FGain: Low #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.23000000 GHz</p> <p>Center Freq: 5.23000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.23 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>14.1 dBm</td></tr><tr><td>35.847 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>63.128 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>40.23 MHz</td><td>x dB</td><td>-26.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	14.1 dBm	35.847 MHz			Transmit Freq Error	63.128 kHz	OBW Power	99.00 %	x dB Bandwidth	40.23 MHz	x dB	-26.00 dB
Occupied Bandwidth	Total Power	14.1 dBm													
35.847 MHz															
Transmit Freq Error	63.128 kHz	OBW Power	99.00 %												
x dB Bandwidth	40.23 MHz	x dB	-26.00 dB												



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-2																			
5270 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.27000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.27 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.4 dBm</td></tr><tr><td>35.717 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>42.607 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>41.19 MHz</td><td></td><td></td></tr></table> <p>Frequency: 5.27000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.4 dBm	35.717 MHz			Transmit Freq Error	OBW Power	99.00 %	42.607 kHz	x dB	-26.00 dB	x dB Bandwidth			41.19 MHz		
Occupied Bandwidth	Total Power	23.4 dBm																	
35.717 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
42.607 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
41.19 MHz																			
5310 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.31000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.31 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.6 dBm</td></tr><tr><td>35.699 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>37.155 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>41.37 MHz</td><td></td><td></td></tr></table> <p>Frequency: 5.31000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.6 dBm	35.699 MHz			Transmit Freq Error	OBW Power	99.00 %	37.155 kHz	x dB	-26.00 dB	x dB Bandwidth			41.37 MHz		
Occupied Bandwidth	Total Power	23.6 dBm																	
35.699 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
37.155 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
41.37 MHz																			



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-2	
5510 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.510000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.510000000 GHz</p> <p>Center Freq: 5.510000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center: 5.51 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 35.768 MHz</p> <p>Total Power: 25.0 dBm</p> <p>Transmit Freq Error: 39.728 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 41.09 MHz</p> <p>x dB: -26.00 dB</p>
5550 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.550000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.550000000 GHz</p> <p>Center Freq: 5.550000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center: 5.55 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 35.685 MHz</p> <p>Total Power: 24.3 dBm</p> <p>Transmit Freq Error: 27.420 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 41.13 MHz</p> <p>x dB: -26.00 dB</p>
5670 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.670000000 GHz Trig: Free Run AvgHold: >10/10 #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.670000000 GHz</p> <p>Center Freq: 5.670000000 GHz</p> <p>CF Step: 5.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center: 5.67 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 35.678 MHz</p> <p>Total Power: 24.0 dBm</p> <p>Transmit Freq Error: 7.440 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 40.86 MHz</p> <p>x dB: -26.00 dB</p>

C



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-2																			
5210 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.210000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.210000000 GHz</p> <p>Center Freq: 5.210000000 GHz</p> <p>CF Step: 9.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.21 GHz #Res BW 1 MHz #VBW 3 MHz Span 90 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>14.1 dBm</td></tr><tr><td>75.182 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>79.623 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>81.12 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	14.1 dBm	75.182 MHz			Transmit Freq Error	OBW Power	99.00 %	79.623 kHz	x dB	-26.00 dB	x dB Bandwidth			81.12 MHz		
Occupied Bandwidth	Total Power	14.1 dBm																	
75.182 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
79.623 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
81.12 MHz																			
5290 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.290000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Frequency: 5.290000000 GHz</p> <p>Center Freq: 5.290000000 GHz</p> <p>CF Step: 10.000000 MHz</p> <p>Freq Offset: 0 Hz</p> <p>Center 5.29 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.7 dBm</td></tr><tr><td>75.140 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>61.257 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>81.29 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	23.7 dBm	75.140 MHz			Transmit Freq Error	OBW Power	99.00 %	61.257 kHz	x dB	-26.00 dB	x dB Bandwidth			81.29 MHz		
Occupied Bandwidth	Total Power	23.7 dBm																	
75.140 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
61.257 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
81.29 MHz																			



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-2																			
5530 MHz	<p>Agilent Spectrum Analyzer: Occupied BW</p> <p>Center Freq: 5.530000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.53 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.7 dBm</td></tr><tr><td>75.141 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>38.728 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>80.85 MHz</td><td></td><td></td></tr></table> <p>Center Freq: 5.530000000 GHz CF Step: 10.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.7 dBm	75.141 MHz			Transmit Freq Error	OBW Power	99.00 %	38.728 kHz	x dB	-26.00 dB	x dB Bandwidth			80.85 MHz		
Occupied Bandwidth	Total Power	23.7 dBm																	
75.141 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
38.728 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
80.85 MHz																			
5610 MHz	<p>Agilent Spectrum Analyzer: Occupied BW</p> <p>Center Freq: 5.610000000 GHz Trig: Free Run #Atten: 20 dB</p> <p>Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 5.61 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>23.3 dBm</td></tr><tr><td>75.111 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>29.528 kHz</td><td>x dB</td><td>-26.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>80.90 MHz</td><td></td><td></td></tr></table> <p>Center Freq: 5.610000000 GHz CF Step: 10.000000 MHz Freq Offset: 0 Hz</p>	Occupied Bandwidth	Total Power	23.3 dBm	75.111 MHz			Transmit Freq Error	OBW Power	99.00 %	29.528 kHz	x dB	-26.00 dB	x dB Bandwidth			80.90 MHz		
Occupied Bandwidth	Total Power	23.3 dBm																	
75.111 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
29.528 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
80.90 MHz																			

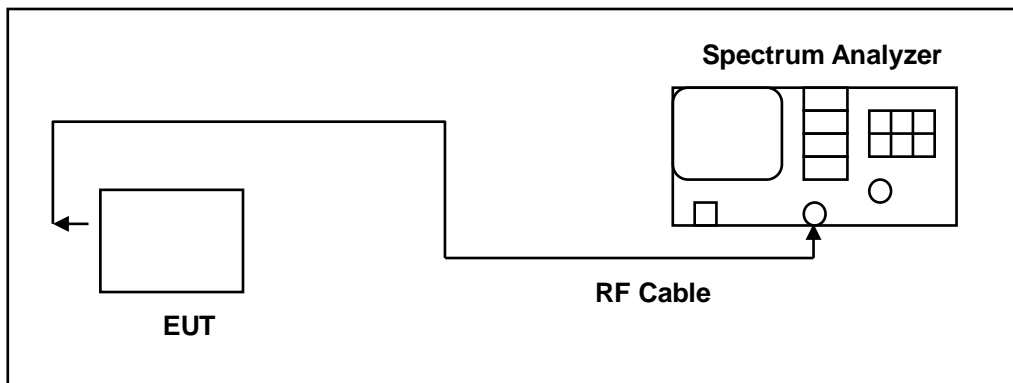
4.6. 6dB RF Bandwidth Measurement

■ Limit

6dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5850MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ Test Procedure

6dB RF Bandwidth

The EUT tested to UNII test procedure of KDB789033 D02 for compliance to FCC 47CFR 15.407 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels.



■ Test Result

Test Item	6dB RF Bandwidth		
Test Mode	Mode 2: IEEE 802.11a Continuous TX mode		
Frequency (MHz)	6dB Bandwidth (kHz)		Limit (kHz)
	ANT-0		
5745	15550		> 500
5785	15360		> 500
5825	15380		> 500

Test Item	6dB RF Bandwidth			
Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode			
Frequency (MHz)	6dB Bandwidth (kHz)			Limit (kHz)
	ANT-0	ANT-1	ANT-2	
5745	15640	15200	16060	> 500
5785	15780	15980	16280	> 500
5825	15750	16060	16060	> 500

Test Item	6dB RF Bandwidth			
Test Mode	Mode 4: IEEE 802.11ac 40MHz Continuous TX mode			
Frequency (MHz)	6dB Bandwidth (kHz)			Limit (kHz)
	ANT-0	ANT-1	ANT-2	
5755	35150	35150	35150	> 500
5795	35100	35120	35160	> 500

Test Item	6dB RF Bandwidth			
Test Mode	Mode 5: IEEE 802.11ac 80MHz Continuous TX mode			
Frequency (MHz)	6dB Bandwidth (kHz)			Limit (kHz)
	ANT-0	ANT-1	ANT-2	
5775	75170	75150	75190	> 500



■ Test Graphs

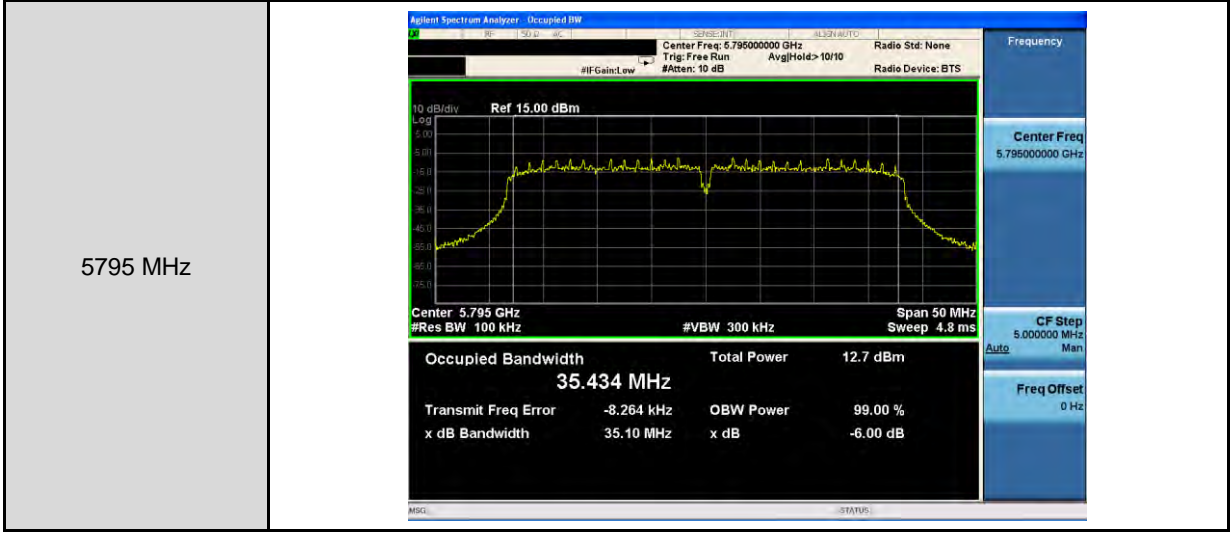
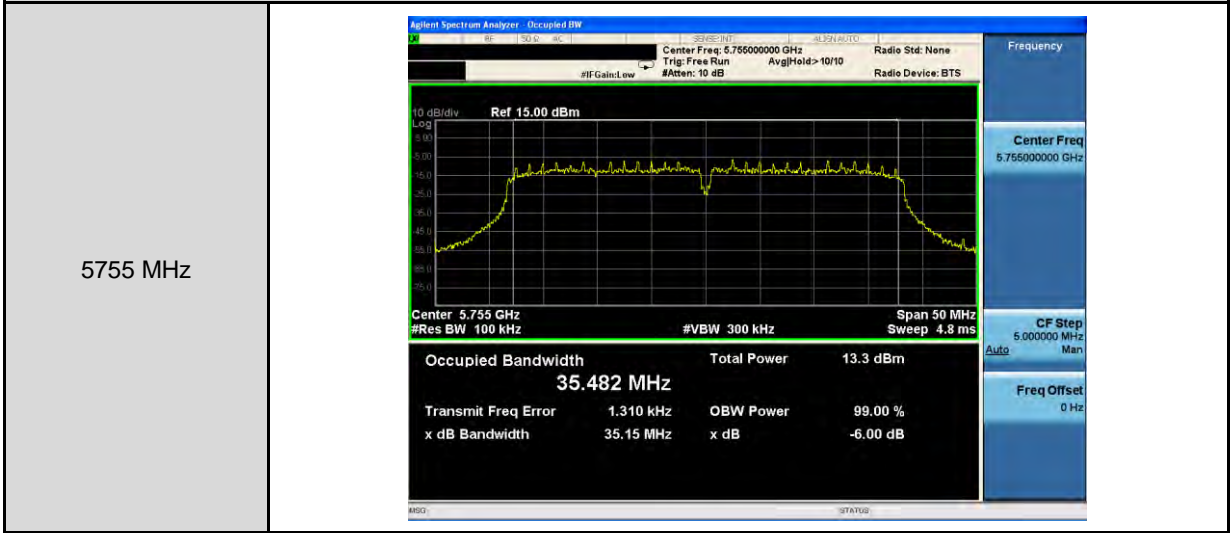
Mode 2: IEEE 802.11a Link Mode_ANT-0																			
5745 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio St4: None Radio Device: BTS</p> <p>Ref 15.00 dBm</p> <p>Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>26.5 dBm</td></tr><tr><td>16.458 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-4.335 kHz</td><td>x dB</td><td>-6.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>15.55 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	26.5 dBm	16.458 MHz			Transmit Freq Error	OBW Power	99.00 %	-4.335 kHz	x dB	-6.00 dB	x dB Bandwidth			15.55 MHz		
Occupied Bandwidth	Total Power	26.5 dBm																	
16.458 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-4.335 kHz	x dB	-6.00 dB																	
x dB Bandwidth																			
15.55 MHz																			
5785 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.785000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio St4: None Radio Device: BTS</p> <p>Ref 15.00 dBm</p> <p>Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>27.0 dBm</td></tr><tr><td>16.592 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-10.212 kHz</td><td>x dB</td><td>-6.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>15.36 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	27.0 dBm	16.592 MHz			Transmit Freq Error	OBW Power	99.00 %	-10.212 kHz	x dB	-6.00 dB	x dB Bandwidth			15.36 MHz		
Occupied Bandwidth	Total Power	27.0 dBm																	
16.592 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-10.212 kHz	x dB	-6.00 dB																	
x dB Bandwidth																			
15.36 MHz																			
5825 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.825000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio St4: None Radio Device: BTS</p> <p>Ref 15.00 dBm</p> <p>Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>26.4 dBm</td></tr><tr><td>16.722 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>31.818 kHz</td><td>x dB</td><td>-6.00 dB</td></tr><tr><td>x dB Bandwidth</td><td></td><td></td></tr><tr><td>15.38 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	26.4 dBm	16.722 MHz			Transmit Freq Error	OBW Power	99.00 %	31.818 kHz	x dB	-6.00 dB	x dB Bandwidth			15.38 MHz		
Occupied Bandwidth	Total Power	26.4 dBm																	
16.722 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
31.818 kHz	x dB	-6.00 dB																	
x dB Bandwidth																			
15.38 MHz																			



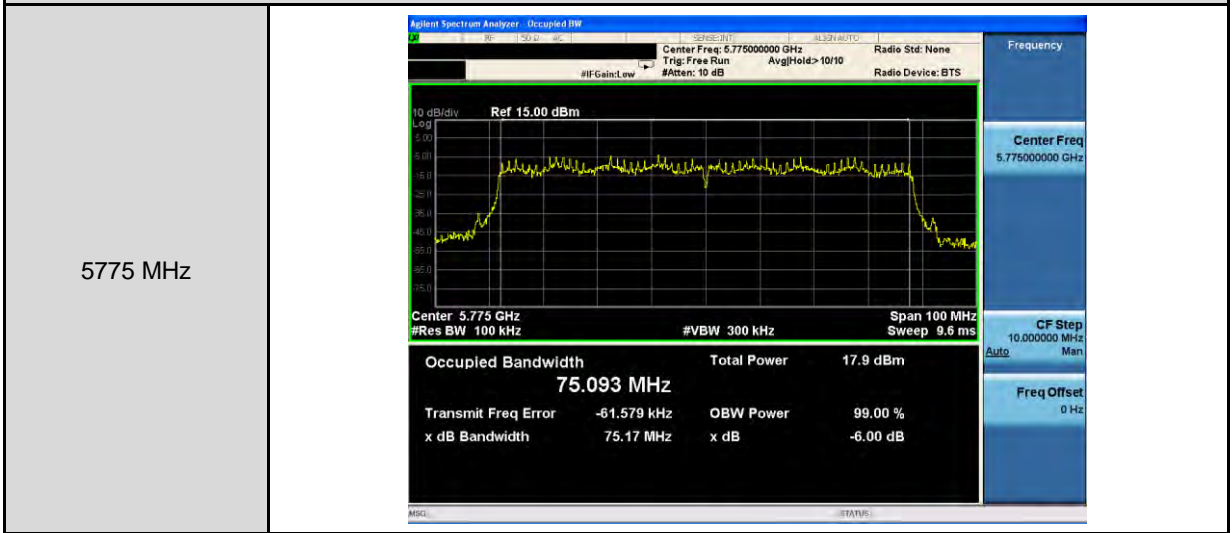
Mode 3: IEEE 802.11ac 20MHz Link Mode_ANT-0	
5745 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Log Ref 15.00 dBm</p> <p>Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.360 MHz Total Power 12.4 dBm</p> <p>Transmit Freq Error -14.002 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.64 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>10 dB/div Log Ref 15.00 dBm</p> <p>Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.378 MHz Total Power 12.2 dBm</p> <p>Transmit Freq Error -12.527 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.78 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>10 dB/div Log Ref 15.00 dBm</p> <p>Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.394 MHz Total Power 12.1 dBm</p> <p>Transmit Freq Error -18.810 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.75 MHz x dB -6.00 dB</p>



Mode 4: IEEE 802.11ac 40MHz Link Mode_ANT-0



Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-0

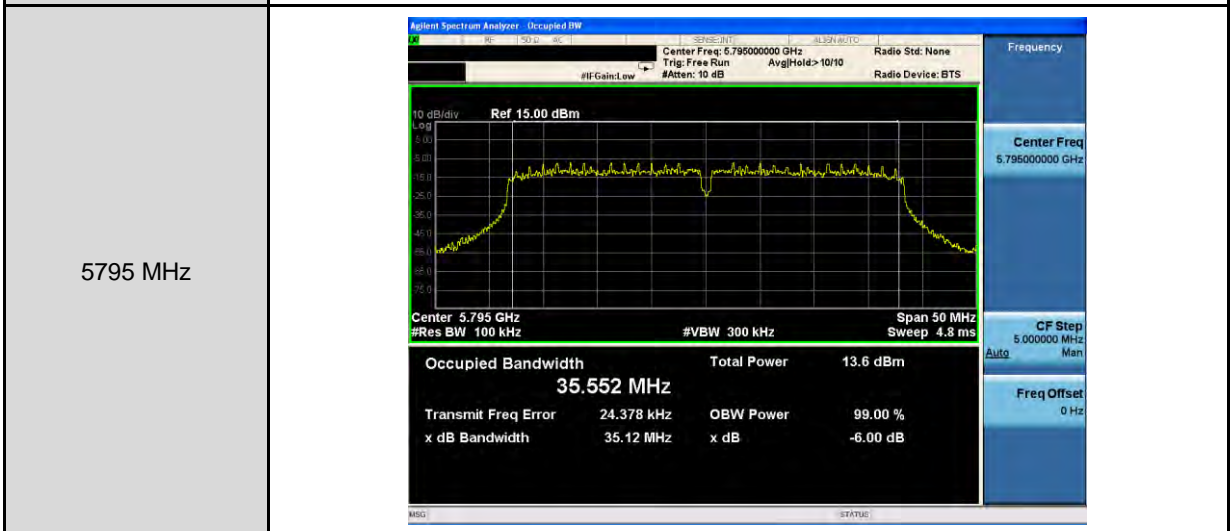
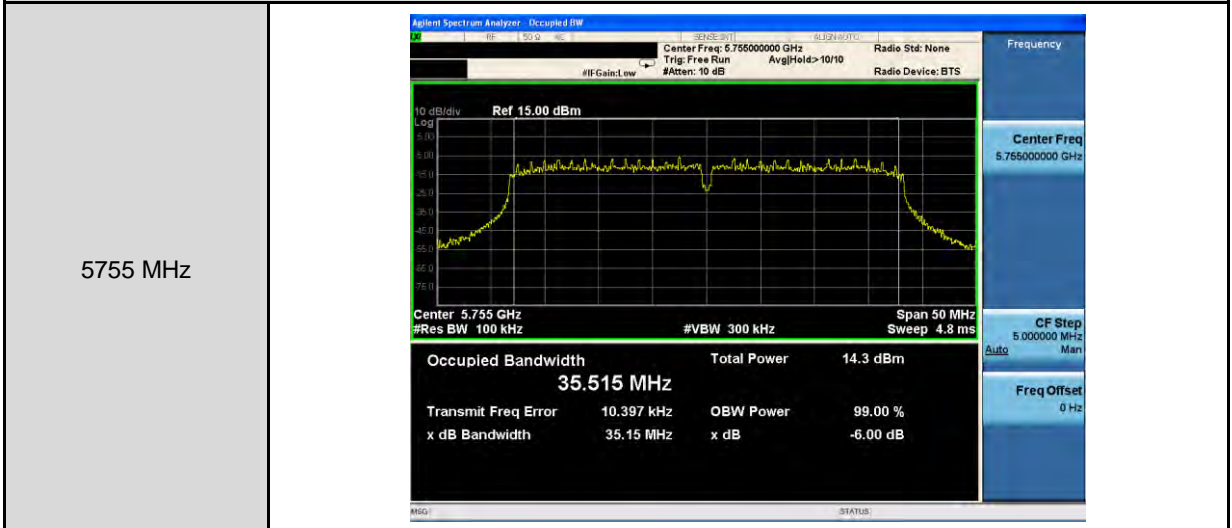




Mode 3: IEEE 802.11ac 20MHz Link Mode_ANT-1																			
<p>5745 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Trig: Free Run Avg Hold> 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 15.00 dBm</p> <p>Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>13.5 dBm</td> </tr> <tr> <td>17.433 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>25.816 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>15.20 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	13.5 dBm	17.433 MHz			Transmit Freq Error	OBW Power	99.00 %	25.816 kHz	x dB	-6.00 dB	x dB Bandwidth			15.20 MHz		
Occupied Bandwidth	Total Power	13.5 dBm																	
17.433 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
25.816 kHz	x dB	-6.00 dB																	
x dB Bandwidth																			
15.20 MHz																			
<p>5785 MHz</p>	<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>10 dB/div Ref 15.00 dBm</p> <p>Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.8 dBm</td> </tr> <tr> <td>17.365 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>20.045 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>15.98 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.8 dBm	17.365 MHz			Transmit Freq Error	OBW Power	99.00 %	20.045 kHz	x dB	-6.00 dB	x dB Bandwidth			15.98 MHz		
Occupied Bandwidth	Total Power	12.8 dBm																	
17.365 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
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x dB Bandwidth																			
15.98 MHz																			
<p>5825 MHz</p>	<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>10 dB/div Ref 15.00 dBm</p> <p>Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.3 dBm</td> </tr> <tr> <td>17.436 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>65.182 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>16.06 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.3 dBm	17.436 MHz			Transmit Freq Error	OBW Power	99.00 %	65.182 kHz	x dB	-6.00 dB	x dB Bandwidth			16.06 MHz		
Occupied Bandwidth	Total Power	12.3 dBm																	
17.436 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
65.182 kHz	x dB	-6.00 dB																	
x dB Bandwidth																			
16.06 MHz																			



Mode 4: IEEE 802.11ac 40MHz Link Mode_ANT-1



Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-1

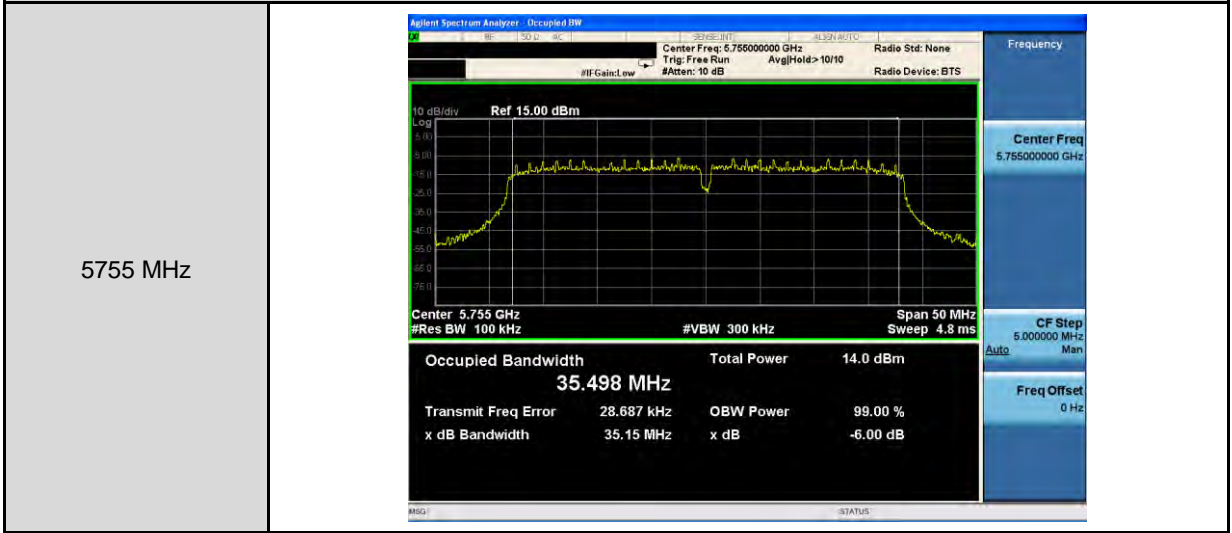




Mode 3: IEEE 802.11ac 20MHz Link Mode_ANT-2																			
5745 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 15.00 dBm</p> <p>Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>13.5 dBm</td> </tr> <tr> <td>17.437 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>147 Hz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>16.06 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	13.5 dBm	17.437 MHz			Transmit Freq Error	OBW Power	99.00 %	147 Hz	x dB	-6.00 dB	x dB Bandwidth			16.06 MHz		
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16.06 MHz																			
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>10 dB/div Ref 15.00 dBm</p> <p>Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>13.7 dBm</td> </tr> <tr> <td>17.428 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-2.360 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>16.28 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	13.7 dBm	17.428 MHz			Transmit Freq Error	OBW Power	99.00 %	-2.360 kHz	x dB	-6.00 dB	x dB Bandwidth			16.28 MHz		
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x dB Bandwidth																			
16.28 MHz																			
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>10 dB/div Ref 15.00 dBm</p> <p>Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>13.1 dBm</td> </tr> <tr> <td>17.421 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-1.428 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>16.06 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	13.1 dBm	17.421 MHz			Transmit Freq Error	OBW Power	99.00 %	-1.428 kHz	x dB	-6.00 dB	x dB Bandwidth			16.06 MHz		
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Mode 4: IEEE 802.11ac 40MHz Link Mode_ANT-2



Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-2



4.7. Peak Power Spectral Density Measurement

■ Limit

Conducted power spectral density

Frequency Range (MHz)	FCC Limit
	Client
5.150 ~ 5.250 GHz	11 dBm/MHz
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500KHz

According FCC KDB 662911 D01 v02r01 – for power spectral density measurements on IEEE802.11 devices,

* SISO mode for ANT-0 : Max. Gain = 3.78 dBi < 6dBi

* MIMO mode : Directional Gain = $10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{ANT}\} = 8.65 \text{ dBi} > 6\text{dBi}$

IEEE 802.11ac 20 MHz/IEEE 802.11ac 40 MHz/ IEEE 802.11ac 80 MHz

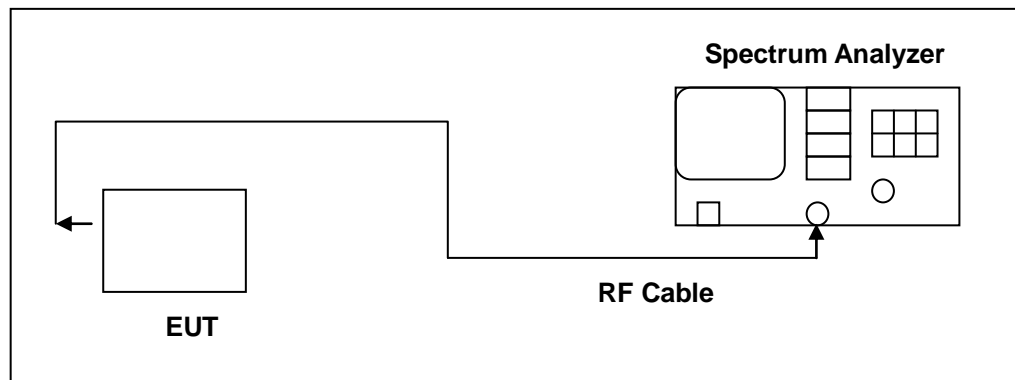
MIMO mode power limit shall be reduced = $11 - 2.65 = 8.35 \text{ dBm/MHz}$ (5.150 ~ 5.250 GHz)

MIMO mode power limit shall be reduced = $11 - 2.65 = 8.35 \text{ dBm/MHz}$ (5.250 ~ 5.350 GHz)

MIMO mode power limit shall be reduced = $11 - 2.65 = 8.35 \text{ dBm/MHz}$ (5.470 ~ 5.725 GHz)

MIMO mode power limit shall be reduced = $30 - 2.65 = 27.35 \text{ dBm/500KHz}$ (5.725 ~ 5.850 GHz)

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

**■ Test Procedure**

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r04, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz (5725 ~ 5850MHz use 100 kHz)
VBW	3 MHz (5725 ~ 5850MHz use 300 kHz)
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/100\text{kHz})$ to the measured result.	



■ Test Result

Test Item	Conducted power spectral density			
Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Frequency (MHz)	ANT-0			Limit
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	(dBm/MHz)
5180.0	6.947	0.141	7.088	≤ 11
5200.0	7.350	0.141	7.491	
5240.0	6.974	0.141	7.115	
5260.0	7.165	0.141	7.306	
5280.0	7.014	0.141	7.155	
5320.0	6.395	0.141	6.536	
5500.0	6.043	0.141	6.184	
5560.0	5.461	0.141	5.602	
5700.0	3.019	0.141	3.160	

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

Test Item	Conducted power spectral density			
Test Mode	Mode 2: IEEE 802.11a link mode			
Frequency (MHz)	ANT-0			Limit
	Measurement (dBm/100KHz)	Duty Factor (dB)	Calculated (dBm/500KHz)	(dBm/500KHz)
5745	0.39	0.141	7.52	≤ 30
5785	-0.01	0.141	7.12	
5825	0.15	0.141	7.28	

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

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



Test Item	Conducted power spectral density			
Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	0.047	0.404	0.451	≤ 8.35
5200	-0.167	0.404	0.237	
5240	-0.975	0.404	-0.571	
5260	2.352	0.404	2.756	
5280	2.201	0.404	2.605	
5320	2.680	0.404	3.084	
5500	-0.472	0.404	-0.068	
5560	-1.088	0.404	-0.684	
5700	-0.656	0.404	-0.252	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	4.382	0.404	4.786	≤ 8.35
5200	4.915	0.404	5.319	
5240	5.375	0.404	5.779	
5260	2.476	0.404	2.880	
5280	2.666	0.404	3.070	
5320	2.600	0.404	3.004	
5500	2.834	0.404	3.238	
5560	2.835	0.404	3.239	
5700	2.867	0.404	3.271	

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