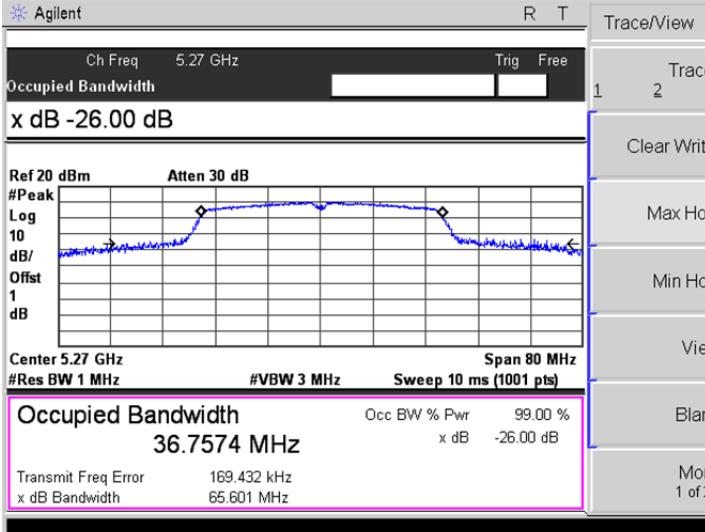
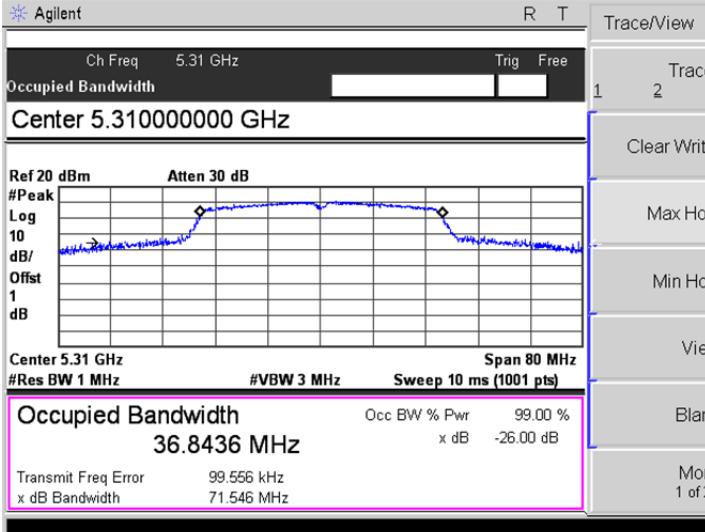
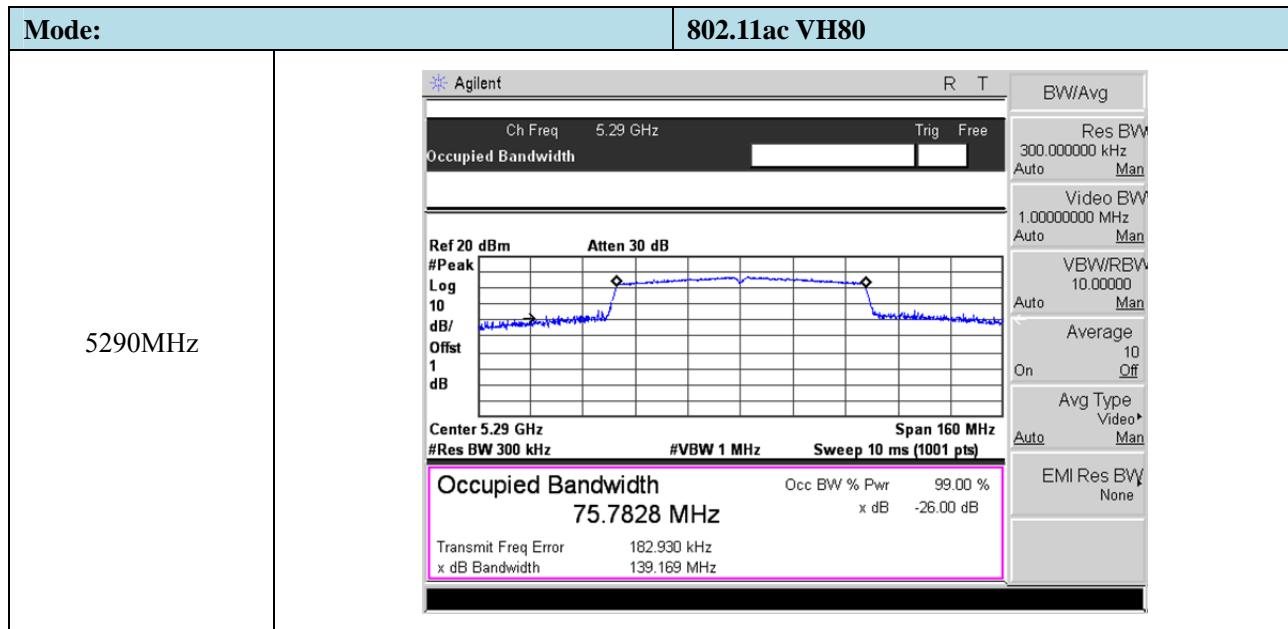
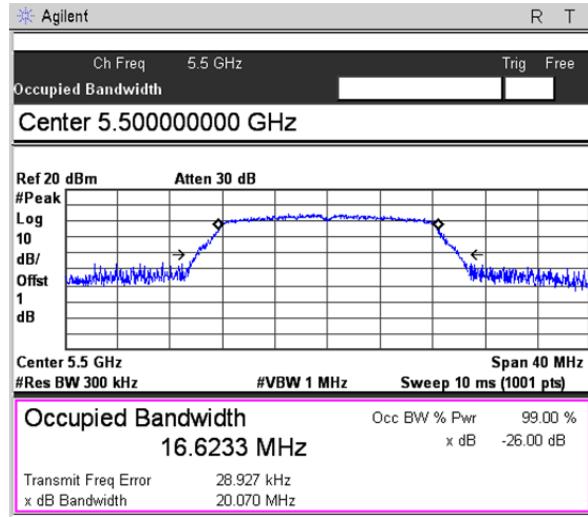
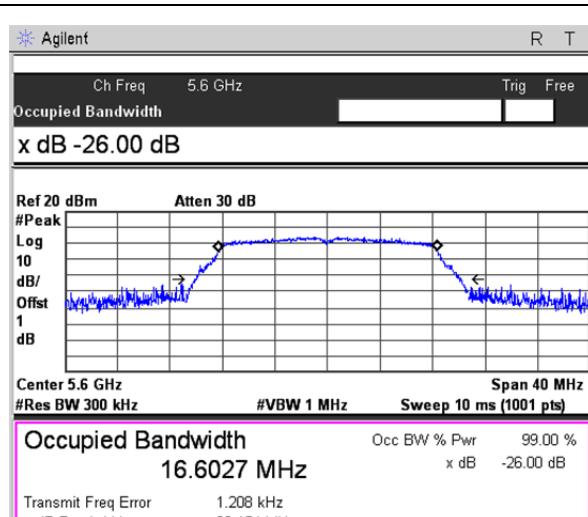
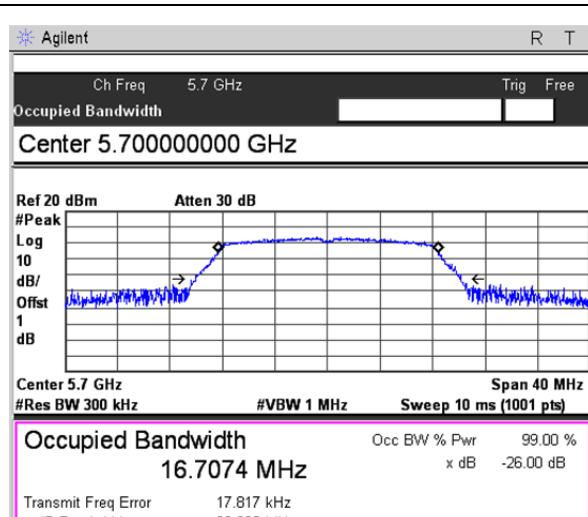
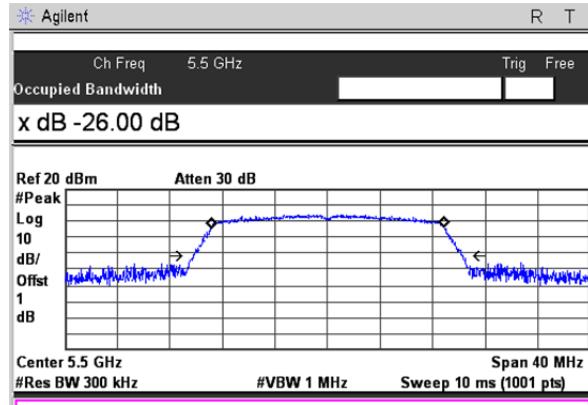
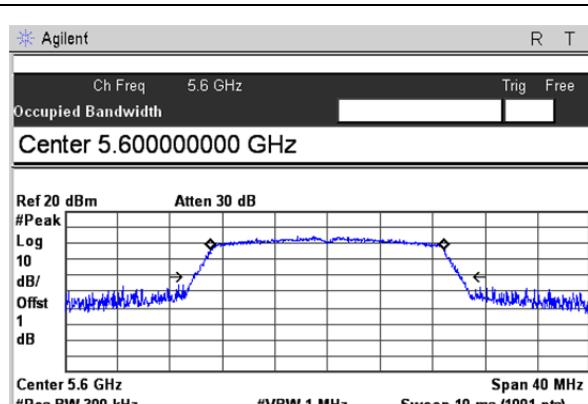
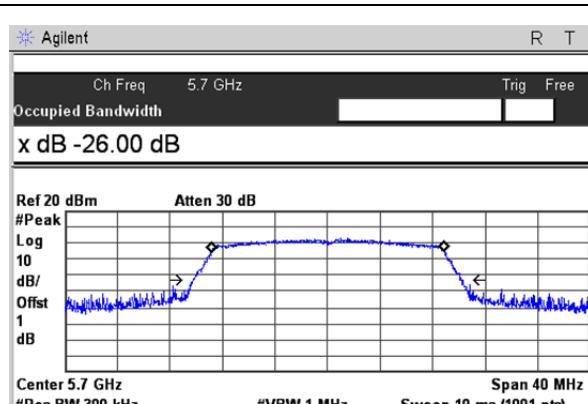


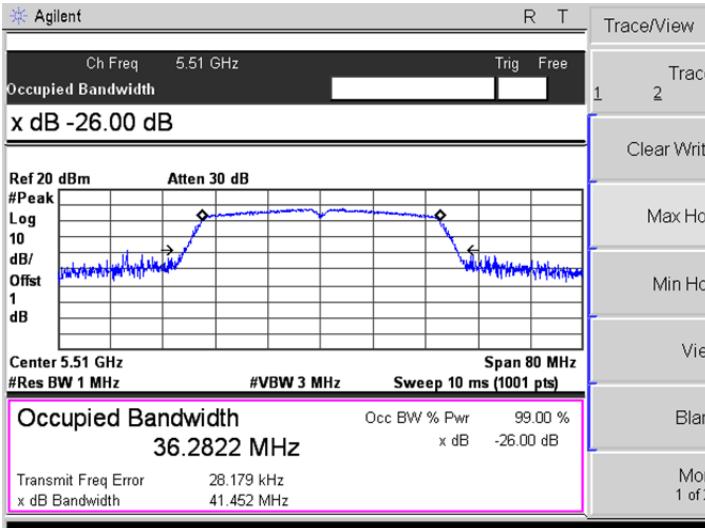
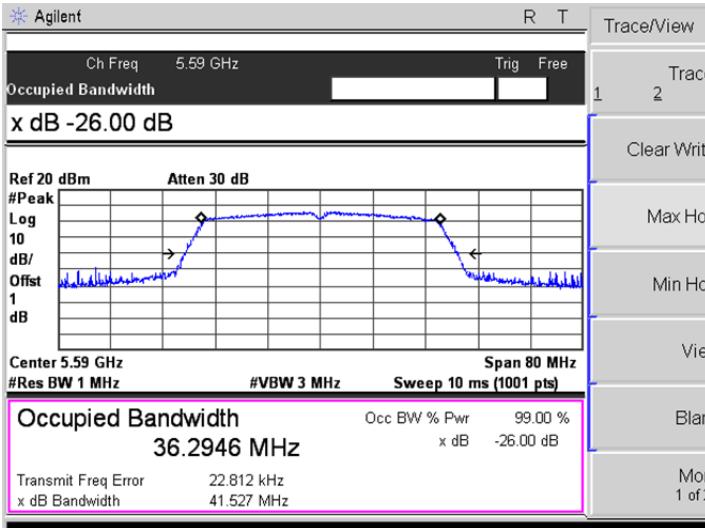
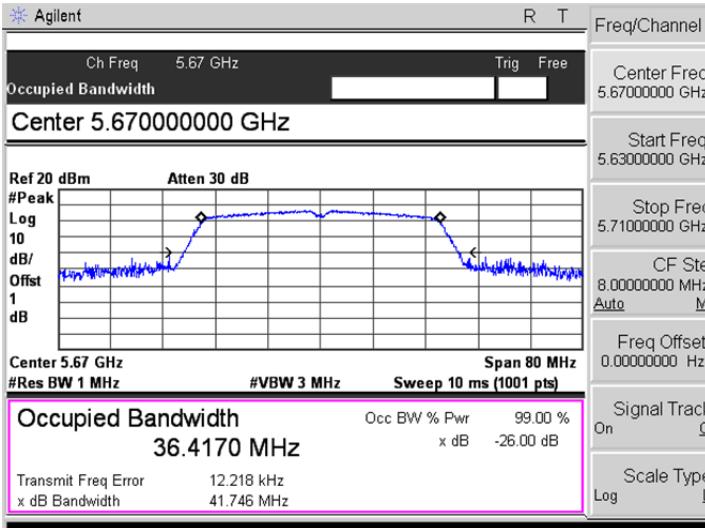
Mode:	802.11n-HT40	
5270MHz	 <p>Agilent R T</p> <p>Ch Freq 5.27 GHz Trig Free</p> <p>Occupied Bandwidth x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.27 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.7574 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 169.432 kHz x dB Bandwidth 65.601 MHz</p>	Trace/View 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
5310MHz	 <p>Agilent R T</p> <p>Ch Freq 5.31 GHz Trig Free</p> <p>Occupied Bandwidth Center 5.310000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.31 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.8436 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 99.556 kHz x dB Bandwidth 71.546 MHz</p>	Trace/View 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

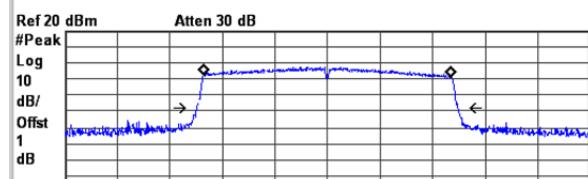
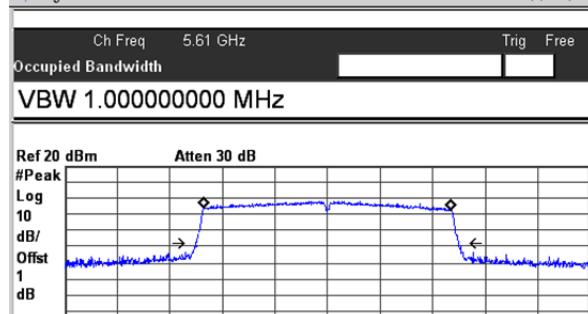


➤ 5470-5725MHz

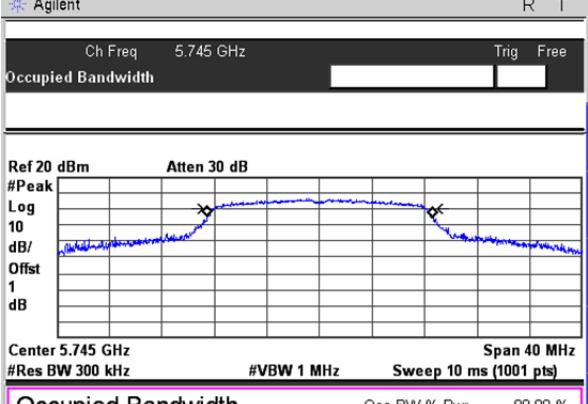
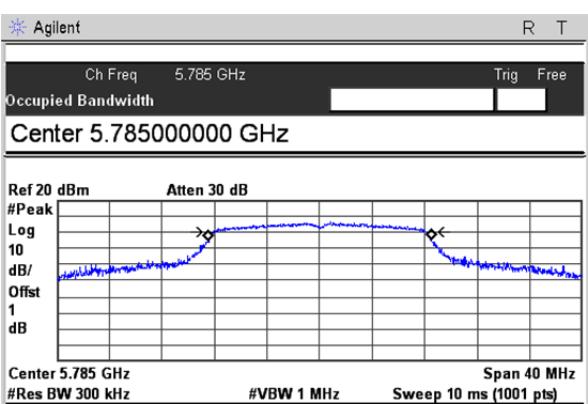
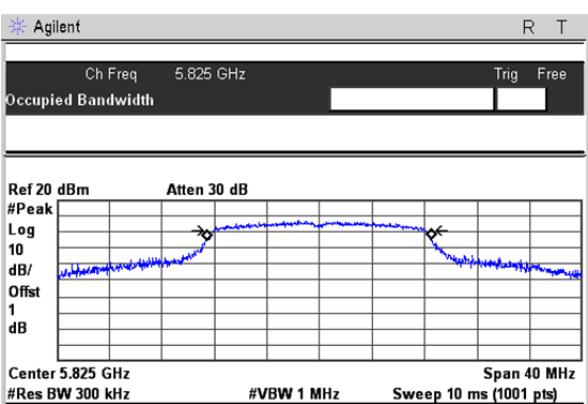
Mode:	802.11a
5500MHz	<p>Agilent</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.500000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p>  <p>Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth Occ BW % Pwr 99.00 % 16.6233 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 28.927 kHz x dB Bandwidth 20.070 MHz</p> <p>R T Freq/Channel</p> <p>Center Freq 5.5000000 GHz</p> <p>Start Freq 5.4800000 GHz</p> <p>Stop Freq 5.5200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
5600MHz	<p>Agilent</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p>  <p>Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth Occ BW % Pwr 99.00 % 16.6027 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 1.208 kHz x dB Bandwidth 20.154 MHz</p> <p>R T Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5700MHz	<p>Agilent</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.700000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p>  <p>Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth Occ BW % Pwr 99.00 % 16.7074 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 17.817 kHz x dB Bandwidth 20.222 MHz</p> <p>R T Freq/Channel</p> <p>Center Freq 5.7000000 GHz</p> <p>Start Freq 5.6800000 GHz</p> <p>Stop Freq 5.7200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>

Mode:		802.11n-HT20	
5500MHz		<p>Agilent R T</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Occupied Bandwidth x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p>  <p>Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.6979 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 953.608 Hz x dB Bandwidth 20.473 MHz</p>	<p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5600MHz		<p>Agilent R T</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Occupied Bandwidth Center 5.600000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p>  <p>Center 5.6 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.6757 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -28.150 kHz x dB Bandwidth 20.457 MHz</p>	<p>Freq/Channel</p> <p>Center Freq 5.6000000 GHz</p> <p>Start Freq 5.5800000 GHz</p> <p>Stop Freq 5.6200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
5700MHz		<p>Agilent R T</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Occupied Bandwidth x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p>  <p>Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.6884 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 9.963 kHz x dB Bandwidth 20.416 MHz</p>	<p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

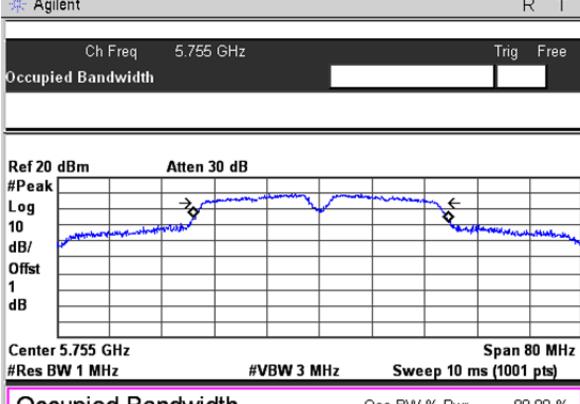
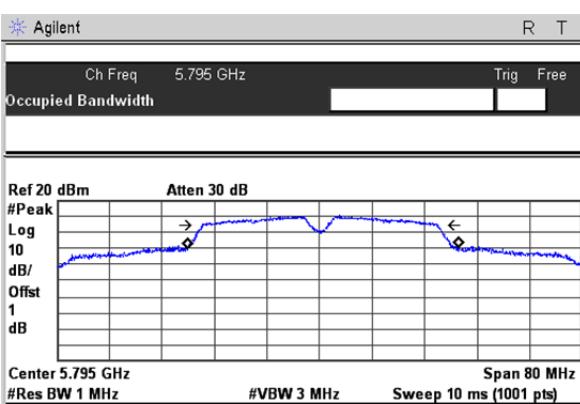
Mode:	802.11n-HT40	
5510MHz	 <p>Agilent R T</p> <p>Ch Freq 5.51 GHz Trig Free</p> <p>Occupied Bandwidth x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.2822 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 28.179 kHz x dB Bandwidth 41.452 MHz</p>	<p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5590MHz	 <p>Agilent R T</p> <p>Ch Freq 5.59 GHz Trig Free</p> <p>Occupied Bandwidth x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.59 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.2946 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 22.812 kHz x dB Bandwidth 41.527 MHz</p>	<p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5670MHz	 <p>Agilent R T</p> <p>Ch Freq 5.67 GHz Trig Free</p> <p>Occupied Bandwidth Center 5.670000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.4170 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 12.218 kHz x dB Bandwidth 41.746 MHz</p>	<p>Freq/Channel</p> <p>Center Freq 5.6700000 GHz</p> <p>Start Freq 5.6300000 GHz</p> <p>Stop Freq 5.7100000 GHz</p> <p>CF Step 8.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>

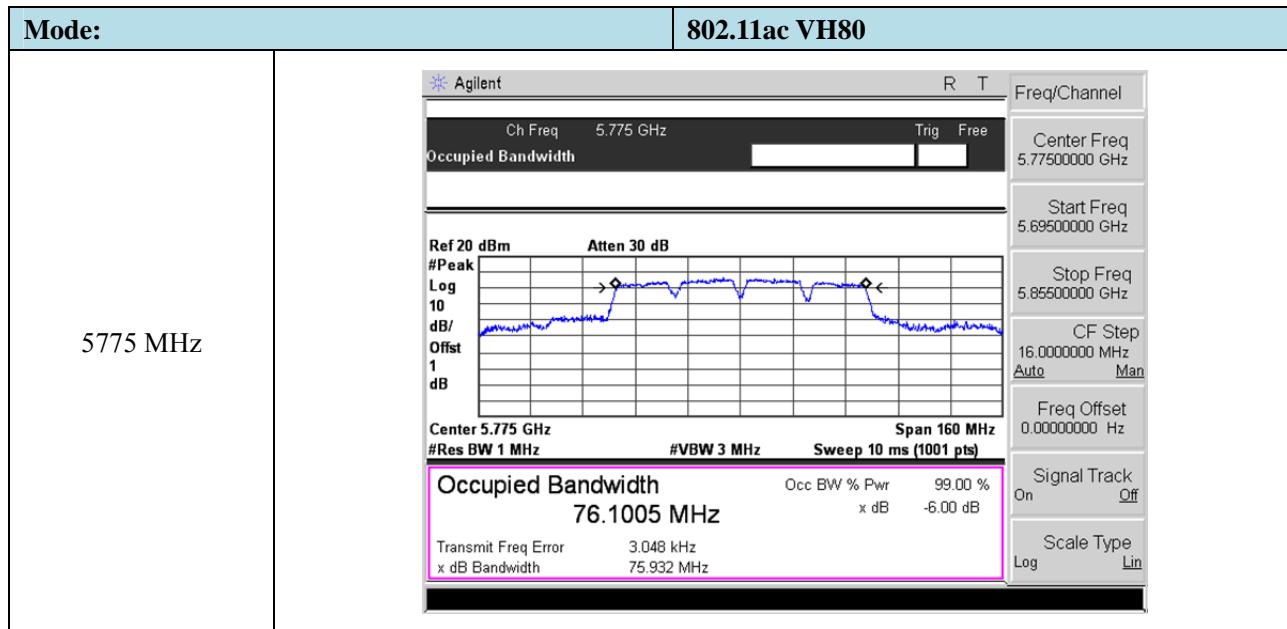
Mode:	802.11ac VH80
5530MHz	<p>Agilent R T</p> <p>Ch Freq 5.53 GHz Trig Free</p> <p>Occupied Bandwidth Span 160.0000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p>  <p>Log 10 dB/Offst 1 dB</p> <p>Center 5.53 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 75.1149 MHz Occ BW % Pwr 99.00 % Transmit Freq Error -81.006 kHz x dB Bandwidth 79.390 MHz x dB -26.00 dB</p> <p>Meas Setup</p> <ul style="list-style-type: none"> Avg Number 10 On Avg Mode Exp Repeat Max Hold On Off Occ BW % Pwr 99.00 % OBW Span 160.000000 MHz x dB -26.00 dB Optimize Ref Level
5610MHz	<p>Agilent R T</p> <p>Ch Freq 5.61 GHz Trig Free</p> <p>Occupied Bandwidth VBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p>  <p>Log 10 dB/Offst 1 dB</p> <p>Center 5.61 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 75.1603 MHz Occ BW % Pwr 99.00 % Transmit Freq Error -67.552 kHz x dB Bandwidth 79.838 MHz x dB -26.00 dB</p> <p>Trace/View</p> <ul style="list-style-type: none"> 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

➤ 5725-5850MHz

Mode:	802.11a
5745MHz	<p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Occupied Bandwidth</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.745 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.1438 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 26.456 kHz x dB Bandwidth 16.063 MHz</p> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>
5785MHz	<p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.785000000 GHz</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.785 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.9975 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 28.588 kHz x dB Bandwidth 16.175 MHz</p> <p>Freq/Channel Center Freq 5.7850000 GHz Start Freq 5.7650000 GHz Stop Freq 5.8050000 GHz CF Step 4.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Scale Type Log Lin</p>
5825MHz	<p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Occupied Bandwidth</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.825 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.0675 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -24.862 kHz x dB Bandwidth 15.959 MHz</p> <p>Freq/Channel Center Freq 5.8250000 GHz Start Freq 5.8050000 GHz Stop Freq 5.8450000 GHz CF Step 4.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Scale Type Log Lin</p>

Mode:		802.11n-HT20																																																
5745MHz		<p style="text-align: right;">Agilent R T</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Ch Freq 5.745 GHz</td> <td style="padding: 2px;">Trig Free</td> <td colspan="2" style="border-left: none; padding: 2px;">Freq/Channel</td> </tr> <tr> <td colspan="2">Occupied Bandwidth</td> <td colspan="2" style="border-left: none; padding: 2px;">Center Freq 5.7450000 GHz</td> </tr> <tr> <td colspan="4" style="text-align: center; padding: 10px;">Ref 20 dBm Atten 30 dB</td> </tr> <tr> <td style="font-size: small; vertical-align: top; padding: 2px;">#Peak</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Log</td> <td style="font-size: small; vertical-align: top; padding: 2px;">10</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Start Freq 5.7250000 GHz</td> </tr> <tr> <td style="font-size: small; vertical-align: top; padding: 2px;">dB/</td> <td style="font-size: small; vertical-align: top; padding: 2px;">dB/</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Offset</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Stop Freq 5.7650000 GHz</td> </tr> <tr> <td style="font-size: small; vertical-align: top; padding: 2px;">1</td> <td style="font-size: small; vertical-align: top; padding: 2px;">dB</td> <td style="font-size: small; vertical-align: top; padding: 2px;">1</td> <td style="font-size: small; vertical-align: top; padding: 2px;">CF Step 4.0000000 MHz</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">Center 5.745 GHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">x dB</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Auto Man</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">#Res BW 300 kHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Span 40 MHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Freq Offset 0.0000000 Hz</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">#VBW 1 MHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Sweep 10 ms (1001 pts)</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Signal Track On Off</td> </tr> <tr> <td colspan="4" style="text-align: center; padding: 10px;">Occupied Bandwidth 16.6989 MHz</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">Transmit Freq Error 9.859 kHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Occ BW % Pwr 99.00 %</td> <td style="font-size: small; vertical-align: top; padding: 2px;">x dB -6.00 dB</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">x dB Bandwidth 16.061 MHz</td> <td colspan="2" style="border-top: none;"></td> </tr> </table>	Ch Freq 5.745 GHz	Trig Free	Freq/Channel		Occupied Bandwidth		Center Freq 5.7450000 GHz		Ref 20 dBm Atten 30 dB				#Peak	Log	10	Start Freq 5.7250000 GHz	dB/	dB/	Offset	Stop Freq 5.7650000 GHz	1	dB	1	CF Step 4.0000000 MHz	Center 5.745 GHz		x dB	Auto Man	#Res BW 300 kHz		Span 40 MHz	Freq Offset 0.0000000 Hz	#VBW 1 MHz		Sweep 10 ms (1001 pts)	Signal Track On Off	Occupied Bandwidth 16.6989 MHz				Transmit Freq Error 9.859 kHz		Occ BW % Pwr 99.00 %	x dB -6.00 dB	x dB Bandwidth 16.061 MHz			
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#Res BW 300 kHz		Span 40 MHz	Freq Offset 0.0000000 Hz																																															
#VBW 1 MHz		Sweep 10 ms (1001 pts)	Signal Track On Off																																															
Occupied Bandwidth 16.6989 MHz																																																		
Transmit Freq Error 9.859 kHz		Occ BW % Pwr 99.00 %	x dB -6.00 dB																																															
x dB Bandwidth 16.061 MHz																																																		
5785MHz		<p style="text-align: right;">Agilent R T</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Ch Freq 5.785 GHz</td> <td style="padding: 2px;">Trig Free</td> <td colspan="2" style="border-left: none; padding: 2px;">Freq/Channel</td> </tr> <tr> <td colspan="2">Occupied Bandwidth</td> <td colspan="2" style="border-left: none; padding: 2px;">Center Freq 5.7850000 GHz</td> </tr> <tr> <td colspan="4" style="text-align: center; padding: 10px;">Center 5.785000000 GHz</td> </tr> <tr> <td style="font-size: small; vertical-align: top; padding: 2px;">#Peak</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Log</td> <td style="font-size: small; vertical-align: top; padding: 2px;">10</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Start Freq 5.7650000 GHz</td> </tr> <tr> <td style="font-size: small; vertical-align: top; padding: 2px;">dB/</td> <td style="font-size: small; vertical-align: top; padding: 2px;">dB/</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Offset</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Stop Freq 5.8050000 GHz</td> </tr> <tr> <td style="font-size: small; vertical-align: top; padding: 2px;">1</td> <td style="font-size: small; vertical-align: top; padding: 2px;">dB</td> <td style="font-size: small; vertical-align: top; padding: 2px;">1</td> <td style="font-size: small; vertical-align: top; padding: 2px;">CF Step 4.0000000 MHz</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">Center 5.785 GHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">x dB</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Auto Man</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">#Res BW 300 kHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Span 40 MHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Freq Offset 0.0000000 Hz</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">#VBW 1 MHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Sweep 10 ms (1001 pts)</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Signal Track On Off</td> </tr> <tr> <td colspan="4" style="text-align: center; padding: 10px;">Occupied Bandwidth 16.7356 MHz</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">Transmit Freq Error 28.447 kHz</td> <td style="font-size: small; vertical-align: top; padding: 2px;">Occ BW % Pwr 99.00 %</td> <td style="font-size: small; vertical-align: top; padding: 2px;">x dB -6.00 dB</td> </tr> <tr> <td colspan="2" style="font-size: small; vertical-align: top; padding: 2px;">x dB Bandwidth 15.972 MHz</td> <td colspan="2" style="border-top: none;"></td> </tr> </table>	Ch Freq 5.785 GHz	Trig Free	Freq/Channel		Occupied Bandwidth		Center Freq 5.7850000 GHz		Center 5.785000000 GHz				#Peak	Log	10	Start Freq 5.7650000 GHz	dB/	dB/	Offset	Stop Freq 5.8050000 GHz	1	dB	1	CF Step 4.0000000 MHz	Center 5.785 GHz		x dB	Auto Man	#Res BW 300 kHz		Span 40 MHz	Freq Offset 0.0000000 Hz	#VBW 1 MHz		Sweep 10 ms (1001 pts)	Signal Track On Off	Occupied Bandwidth 16.7356 MHz				Transmit Freq Error 28.447 kHz		Occ BW % Pwr 99.00 %	x dB -6.00 dB	x dB Bandwidth 15.972 MHz			
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Mode:	802.11n-HT40
5755 MHz	<p>Agilent R T</p> <p>Ch Freq 5.755 GHz Trig Free</p> <p>Occupied Bandwidth</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.755 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 38.7807 MHz</p> <p>Transmit Freq Error 110.415 kHz x dB Bandwidth 35.531 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Freq/Channel Center Freq 5.7550000 GHz</p> <p>Start Freq 5.7150000 GHz</p> <p>Stop Freq 5.7950000 GHz</p> <p>CF Step 8.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
5795 MHz	<p>Agilent R T</p> <p>Ch Freq 5.795 GHz Trig Free</p> <p>Occupied Bandwidth</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 5.795 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 41.1961 MHz</p> <p>Transmit Freq Error 530.016 kHz x dB Bandwidth 35.600 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Trace/View Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>



8. Maximum Conducted Output Power

8.1 Standard Applicable

Section 15.407(a) Power limits:

- (1) For the band 5.15-5.25 GHz.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

8.2 Test Procedure

According to KDB789033 D02 v02r01 section E, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW \geq 3 MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.

- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

8.3 Summary of Test Results/Plots

U-NII-1:5150-5250MHz				
Test mode	Frequency MHz	Output Power dBm	Output Power mW	Limit mW
802.11a	5180	14.27	26.73	250
	5200	13.77	23.82	250
	5240	14.74	29.79	250
802.11n-HT20	5180	10.51	11.25	250
	5200	11.25	13.34	250
	5240	11.56	14.32	250
802.11n-HT40	5190	10.45	11.09	250
	5230	10.91	12.33	250
802.11ac VH80	5210	10.97	12.50	250

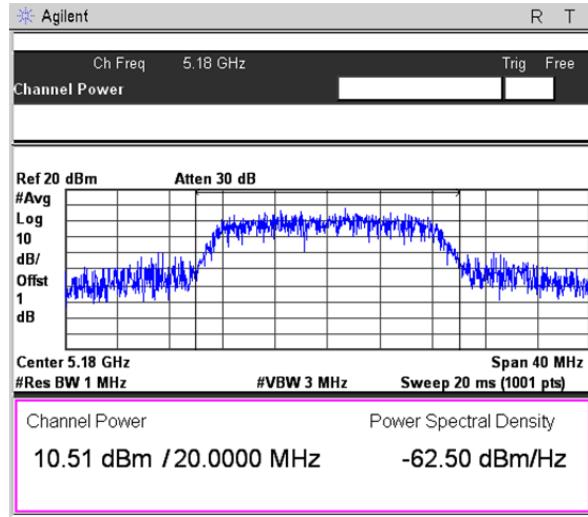
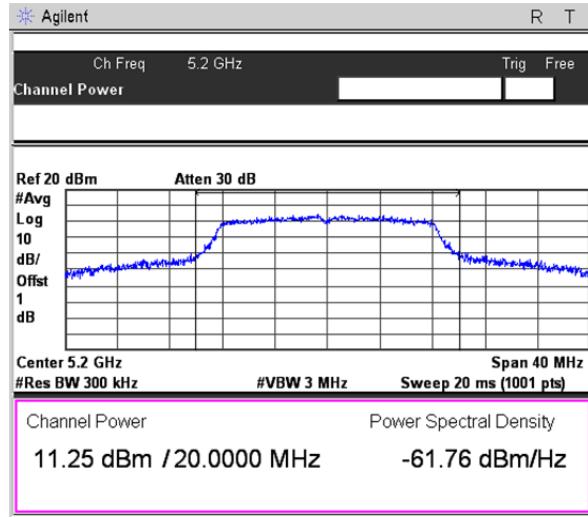
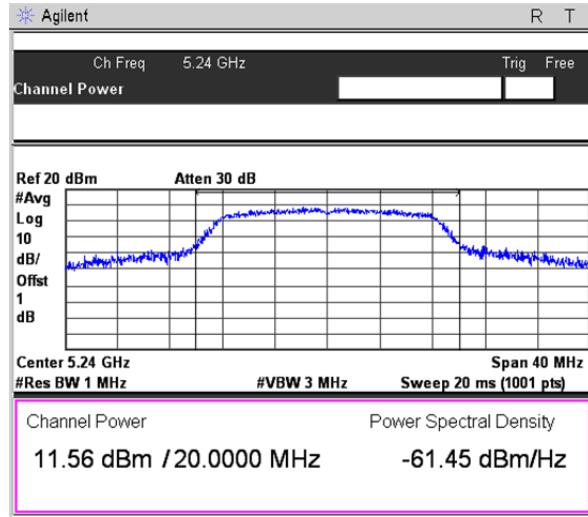
U-NII-2A: 5250-5350MHz				
Test mode	Frequency MHz	Output Power dBm	Output Power mW	Limit mW
802.11a	5260	10.71	11.78	250
	5280	10.94	12.42	250
	5320	10.86	12.19	250
802.11n-HT20	5260	10.51	11.25	250
	5280	10.58	11.43	250
	5320	10.51	11.25	250
802.11n-HT40	5270	10.99	12.56	250
	5310	10.84	12.13	250
802.11ac VH80	5290	10.31	10.74	250

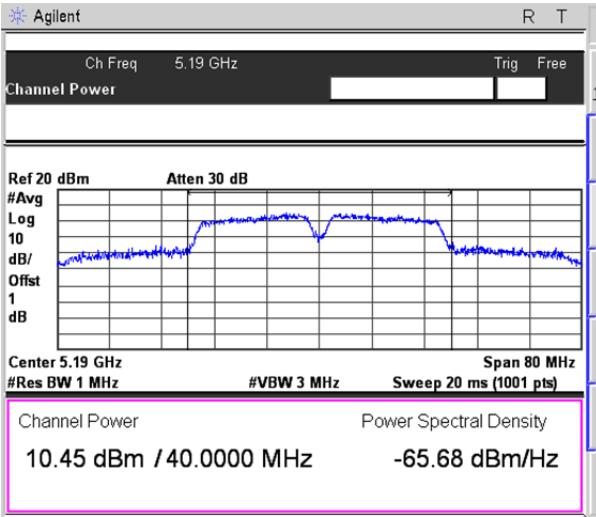
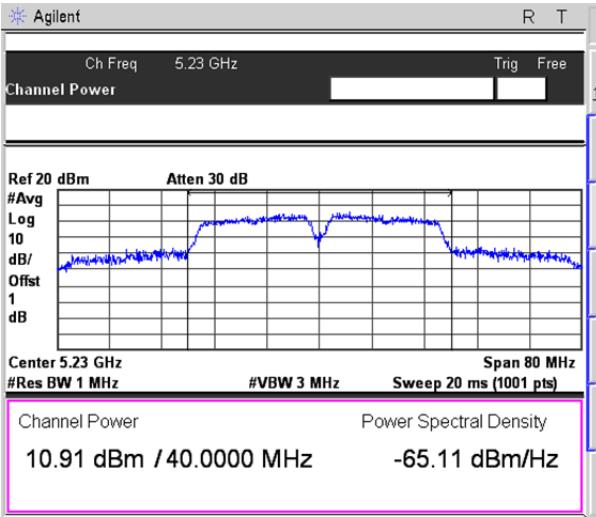
U-NII-2C: 5470-5725MHz				
Test mode	Frequency MHz	Output Power dBm	Output Power mW	Limit mW
802.11a	5500	11.82	15.21	250
	5600	11.59	14.42	250
	5700	10	10.00	250
802.11n-HT20	5500	11.29	13.46	250
	5600	11	12.59	250
	5700	9.97	9.93	250
802.11n-HT40	5510	11.4	13.80	250
	5590	10.57	11.40	250
	5670	10.6	11.48	250
802.11ac VH80	5530	10.59	11.46	250
	5610	10.11	10.26	250

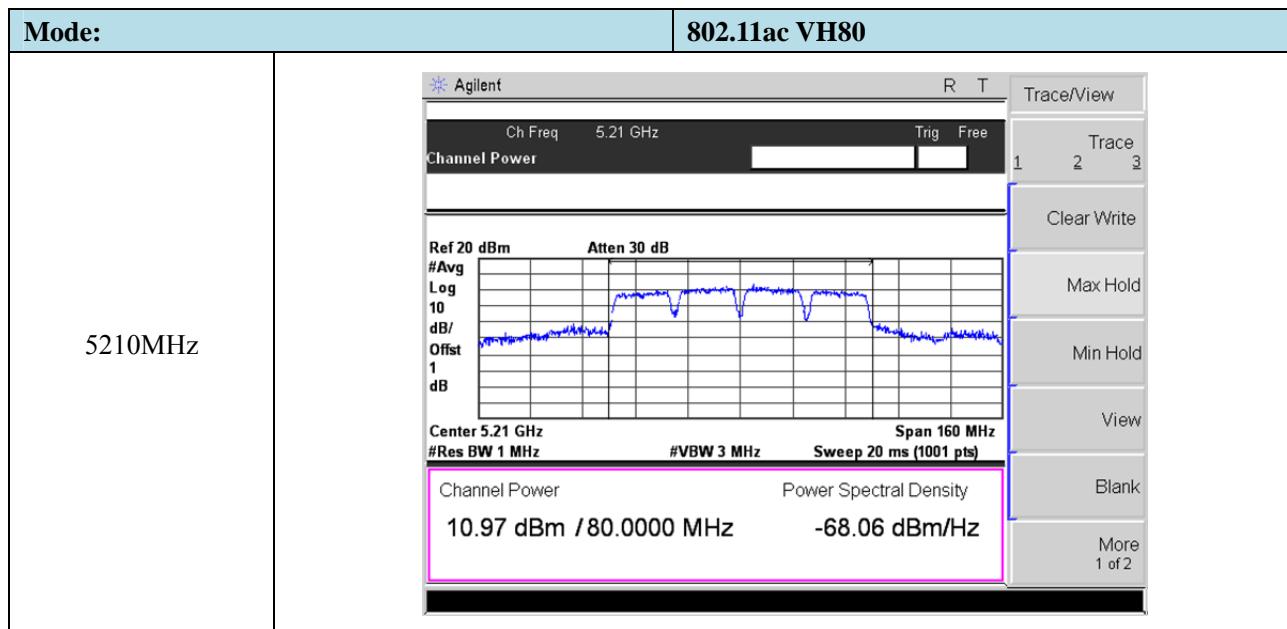
U-NII-3: 5725-5850MHz				
Test mode	Frequency MHz	Output Power dBm	Output Power mW	Limit mW
802.11a	5745	12.74	18.79	1000
	5785	12.65	18.41	1000
	5825	13.79	23.93	1000
802.11n-HT20	5745	12.22	16.67	1000
	5785	12.97	19.82	1000
	5825	12.81	19.10	1000
802.11n-HT40	5755	12.57	18.07	1000
	5795	12.49	17.74	1000
802.11ac VH80	5775	12.05	16.03	1000

➤ 5150-5250MHz

Mode:	802.11a
5180MHz	<p>Agilent R T</p> <p>Ch Freq 5.18 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.18 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>14.27 dBm / 20.0000 MHz -58.74 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5200MHz	<p>Agilent R T</p> <p>Ch Freq 5.2 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.2 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>13.77 dBm / 20.0000 MHz -59.24 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.2000000 GHz</p> <p>Start Freq 5.1800000 GHz</p> <p>Stop Freq 5.2200000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
5240MHz	<p>Agilent R T</p> <p>Ch Freq 5.24 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.24 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>14.74 dBm / 20.0000 MHz -58.27 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

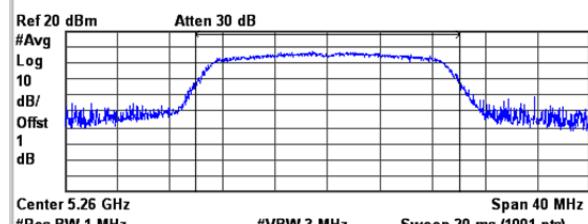
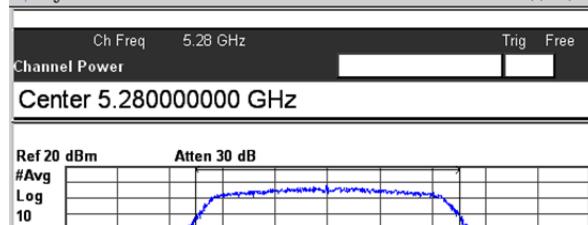
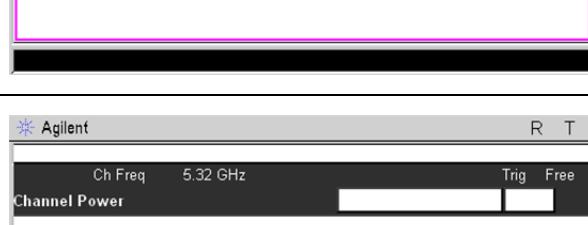
Mode:	802.11n-HT20
5180MHz	<p>Agilent</p> <p>Ch Freq 5.18 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.18 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>10.51 dBm / 20.0000 MHz -62.50 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.1800000 GHz</p> <p>Start Freq 5.1600000 GHz</p> <p>Stop Freq 5.2000000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> 
5200MHz	<p>Agilent</p> <p>Ch Freq 5.2 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>11.25 dBm / 20.0000 MHz -61.76 dBm/Hz</p> <p>Trace/View</p> <p>1 Trace 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> 
5240MHz	<p>Agilent</p> <p>Ch Freq 5.24 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.24 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>11.56 dBm / 20.0000 MHz -61.45 dBm/Hz</p> <p>Trace/View</p> <p>1 Trace 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> 

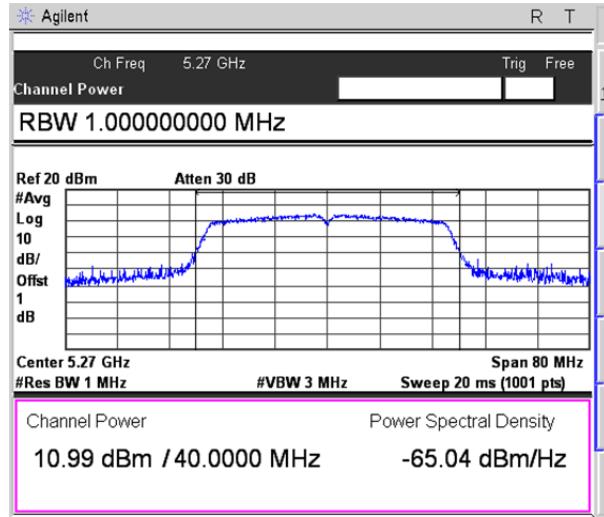
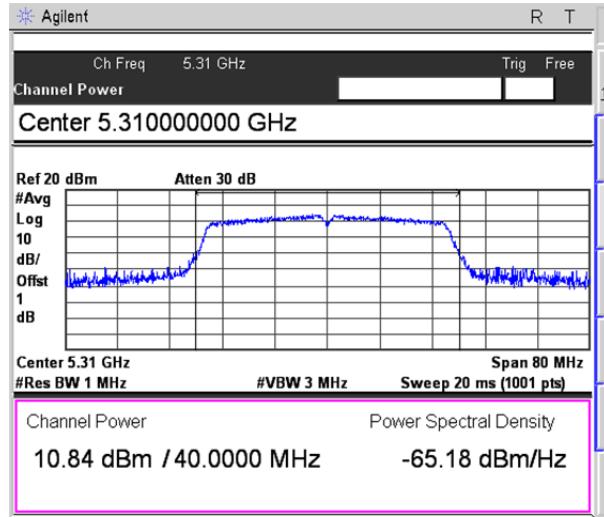
Mode:	802.11n-HT40	
5190 MHz	 <p>Agilent R T</p> <p>Ch Freq 5.19 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.19 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 80 MHz</p> <p>Channel Power Power Spectral Density</p> <p>10.45 dBm / 40.0000 MHz -65.68 dBm/Hz</p>	<p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5230 MHz	 <p>Agilent R T</p> <p>Ch Freq 5.23 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.23 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 80 MHz</p> <p>Channel Power Power Spectral Density</p> <p>10.91 dBm / 40.0000 MHz -65.11 dBm/Hz</p>	<p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

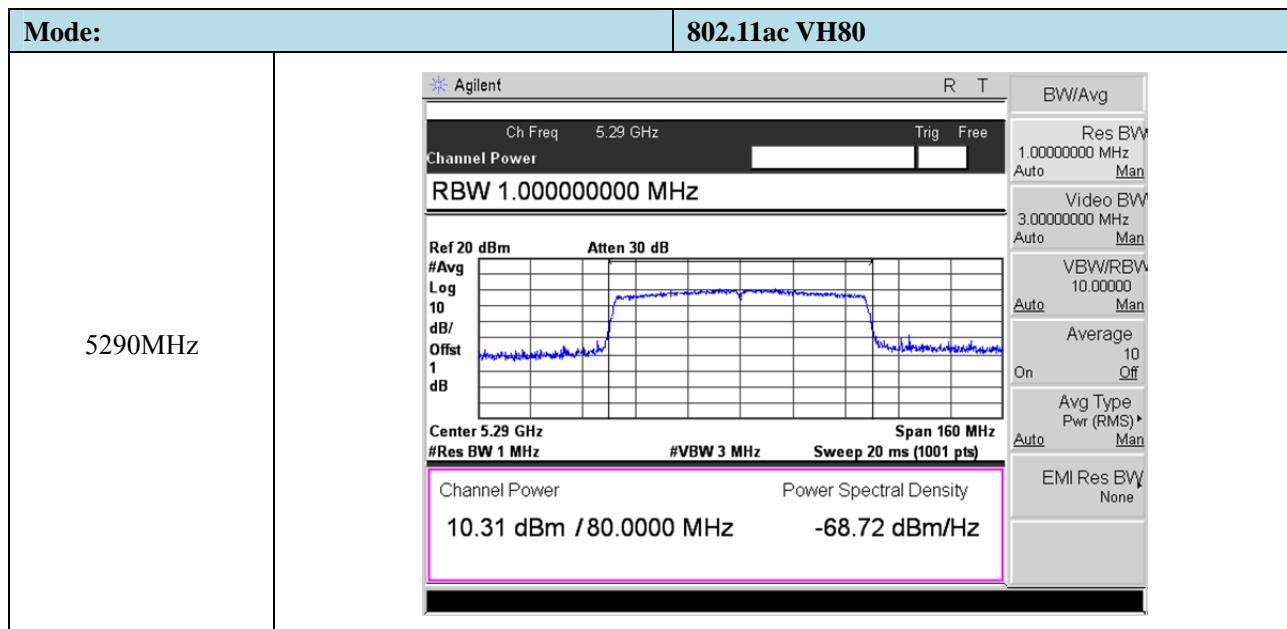


➤ 5250-5350MHz

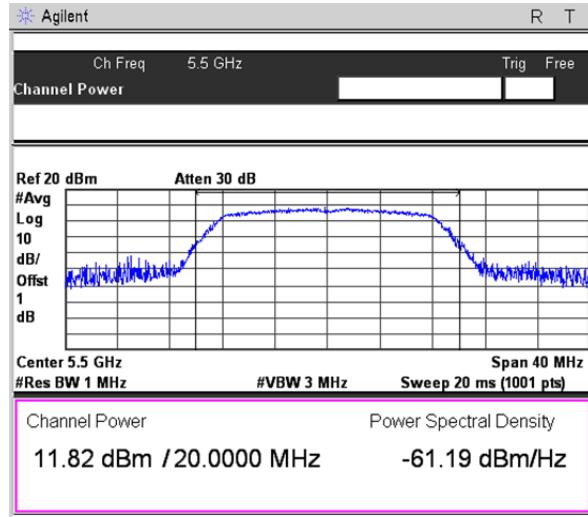
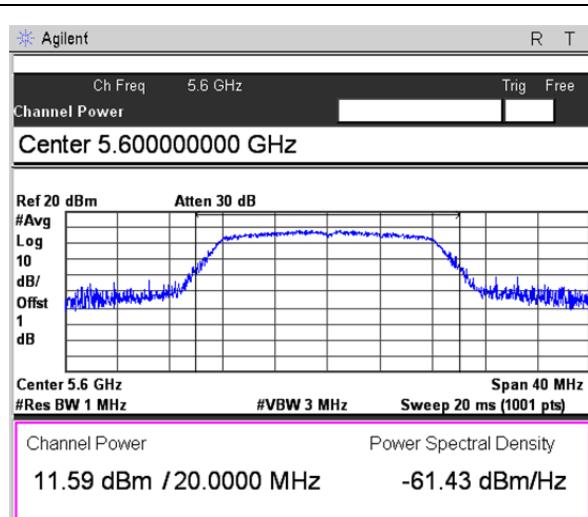
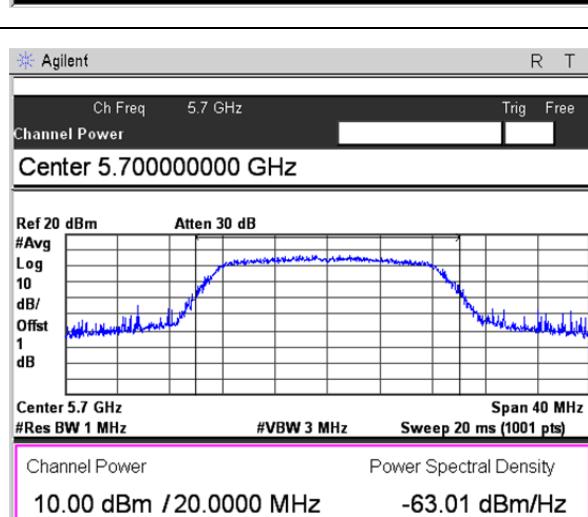
Mode:	802.11a
5260MHz	<p>Agilent R T</p> <p>Ch Freq 5.26 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.26 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.71 dBm / 20.0000 MHz -62.30 dBm/Hz</p> <p>BW/Avg</p> <ul style="list-style-type: none"> Res BW 1.0000000 MHz Auto Man Video BW 3.0000000 MHz Auto Man VBW/RBW 10.00000 Auto Man Average 10 On Off Avg Type Pwr (RMS) Auto Man EMI Res BW None
5280MHz	<p>Agilent R T</p> <p>Ch Freq 5.28 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.28 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.94 dBm / 20.0000 MHz -62.07 dBm/Hz</p> <p>Trace/View</p> <ul style="list-style-type: none"> Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
5320MHz	<p>Agilent R T</p> <p>Ch Freq 5.32 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.320000000 GHz</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.32 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.86 dBm / 20.0000 MHz -62.15 dBm/Hz</p> <p>Trace/View</p> <ul style="list-style-type: none"> Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

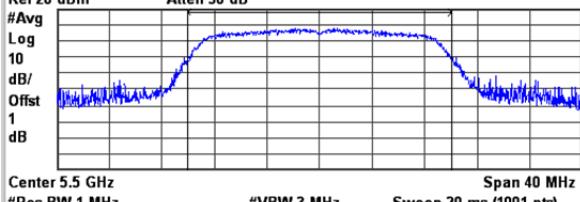
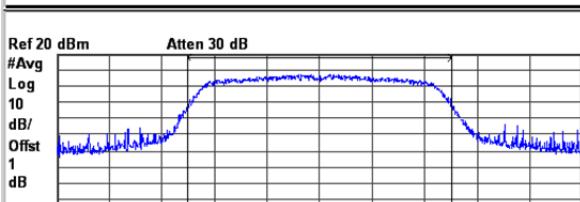
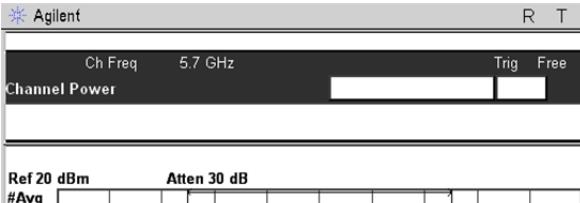
Mode:	802.11n-HT20				
5260MHz	<p>Agilent R T</p> <p>Ch Freq 5.26 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.260000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.26 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>10.51 dBm / 20.0000 MHz</td> <td>-62.24 dBm/Hz</td> </tr> </table> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>	Channel Power	Power Spectral Density	10.51 dBm / 20.0000 MHz	-62.24 dBm/Hz
Channel Power	Power Spectral Density				
10.51 dBm / 20.0000 MHz	-62.24 dBm/Hz				
5280MHz	<p>Agilent R T</p> <p>Ch Freq 5.28 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.280000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.28 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>10.58 dBm / 20.0000 MHz</td> <td>-62.43 dBm/Hz</td> </tr> </table> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>	Channel Power	Power Spectral Density	10.58 dBm / 20.0000 MHz	-62.43 dBm/Hz
Channel Power	Power Spectral Density				
10.58 dBm / 20.0000 MHz	-62.43 dBm/Hz				
5320MHz	<p>Agilent R T</p> <p>Ch Freq 5.32 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.320000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.32 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>10.51 dBm / 20.0000 MHz</td> <td>-62.50 dBm/Hz</td> </tr> </table> <p>Freq/Channel Center Freq 5.3200000 GHz Start Freq 5.3000000 GHz Stop Freq 5.3400000 GHz CF Step 4.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Scale Type Log Lin</p>	Channel Power	Power Spectral Density	10.51 dBm / 20.0000 MHz	-62.50 dBm/Hz
Channel Power	Power Spectral Density				
10.51 dBm / 20.0000 MHz	-62.50 dBm/Hz				

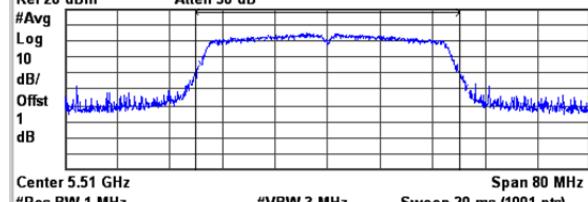
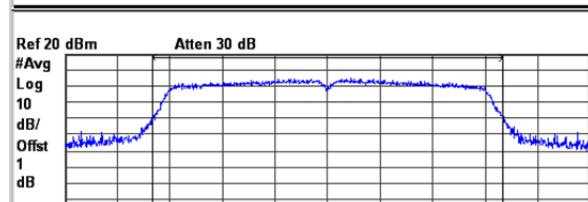
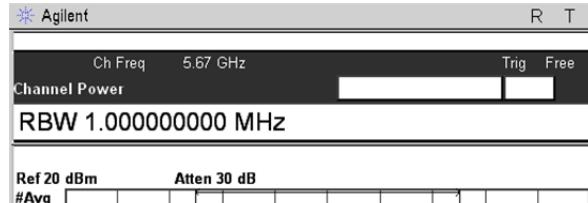
Mode:	802.11n-HT40	
5270MHz	 <p>Agilent R T</p> <p>Ch Freq 5.27 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.27 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.99 dBm / 40.0000 MHz -65.04 dBm/Hz</p>	Trace/View 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
5310MHz	 <p>Agilent R T</p> <p>Ch Freq 5.31 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.310000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.31 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.84 dBm / 40.0000 MHz -65.18 dBm/Hz</p>	Trace/View 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

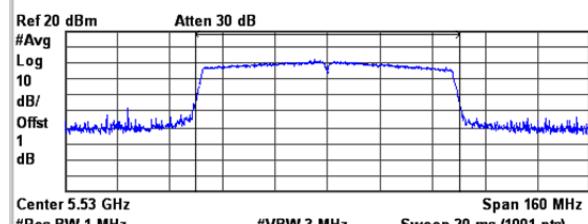
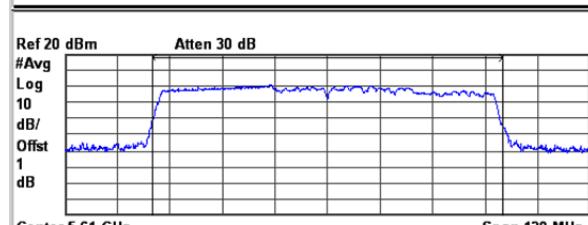


➤ 5470-5725MHz

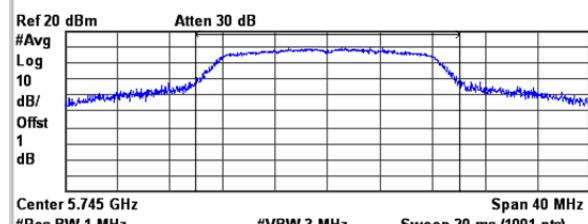
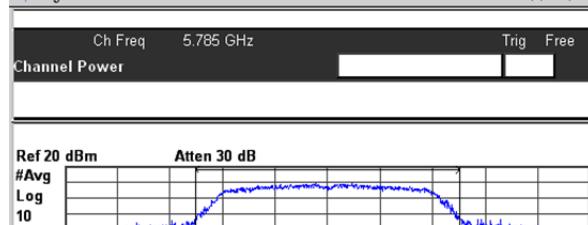
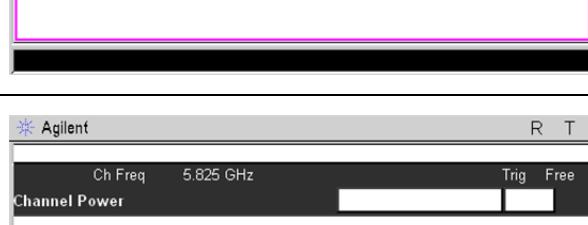
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5500MHz	<p>Agilent R T</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.5 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>11.82 dBm / 20.0000 MHz -61.19 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> 
5600MHz	<p>Agilent R T</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.600000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.6 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>11.59 dBm / 20.0000 MHz -61.43 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.6000000 GHz</p> <p>Start Freq 5.5800000 GHz</p> <p>Stop Freq 5.6200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> 
5700MHz	<p>Agilent R T</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.700000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.7 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>10.00 dBm / 20.0000 MHz -63.01 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.7000000 GHz</p> <p>Start Freq 5.6800000 GHz</p> <p>Stop Freq 5.7200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> 

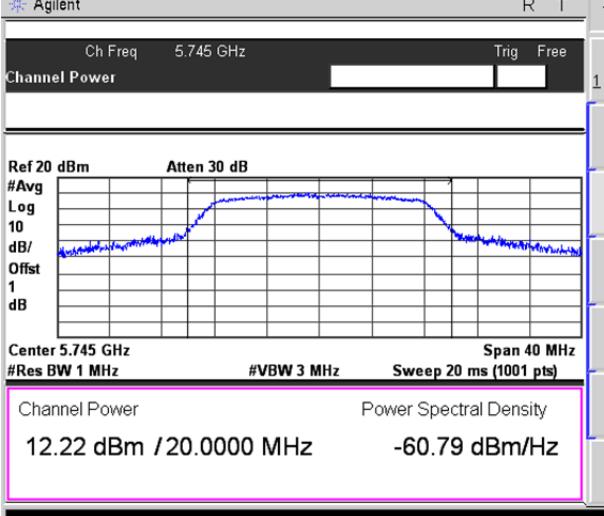
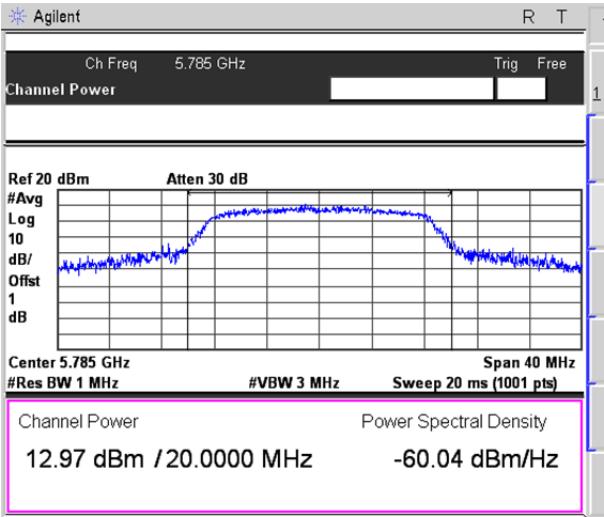
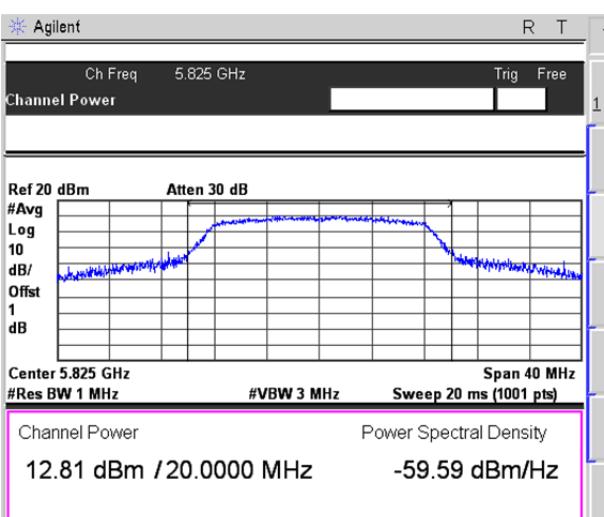
Mode:	802.11n-HT20				
5500MHz	<p>Agilent R T</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.500000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.5 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>11.29 dBm / 20.0000 MHz</td> <td>-61.72 dBm/Hz</td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.5000000 GHz</p> <p>Start Freq 5.4800000 GHz</p> <p>Stop Freq 5.5200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>	Channel Power	Power Spectral Density	11.29 dBm / 20.0000 MHz	-61.72 dBm/Hz
Channel Power	Power Spectral Density				
11.29 dBm / 20.0000 MHz	-61.72 dBm/Hz				
5600MHz	<p>Agilent R T</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.600000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.6 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>11.00 dBm / 20.0000 MHz</td> <td>-62.01 dBm/Hz</td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.6000000 GHz</p> <p>Start Freq 5.5800000 GHz</p> <p>Stop Freq 5.6200000 GHz</p> <p>CF Step 4.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>	Channel Power	Power Spectral Density	11.00 dBm / 20.0000 MHz	-62.01 dBm/Hz
Channel Power	Power Spectral Density				
11.00 dBm / 20.0000 MHz	-62.01 dBm/Hz				
5700MHz	<p>Agilent R T</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.700000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.7 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>9.97 dBm / 20.0000 MHz</td> <td>-63.04 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 Trace</p> <p>2</p> <p>3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>	Channel Power	Power Spectral Density	9.97 dBm / 20.0000 MHz	-63.04 dBm/Hz
Channel Power	Power Spectral Density				
9.97 dBm / 20.0000 MHz	-63.04 dBm/Hz				

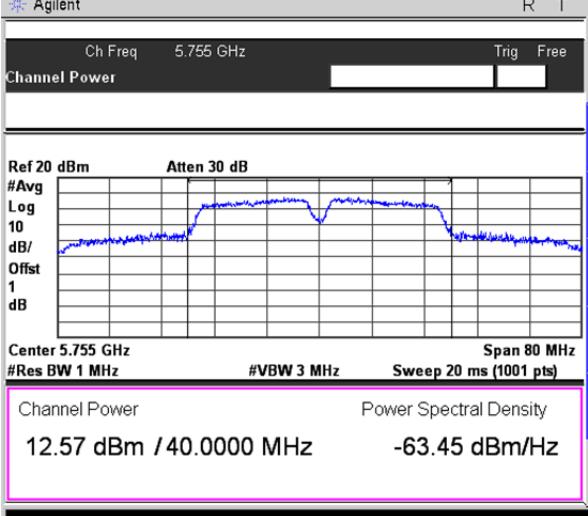
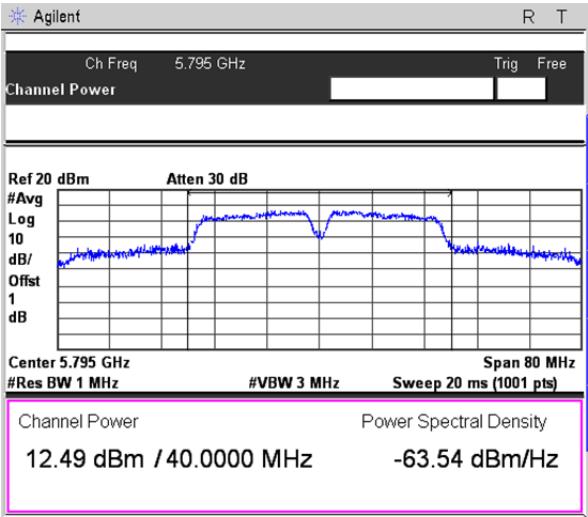
Mode:	802.11n-HT40	
5510MHz	<p>Agilent R T</p> <p>Ch Freq 5.51 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.510000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.40 dBm / 40.0000 MHz -64.62 dBm/Hz</p>	<p>Freq/Channel</p> <p>Center Freq 5.5100000 GHz</p> <p>Start Freq 5.4700000 GHz</p> <p>Stop Freq 5.5500000 GHz</p> <p>CF Step 8.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
5590MHz	<p>Agilent R T</p> <p>Ch Freq 5.59 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.59 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.57 dBm / 40.0000 MHz -65.45 dBm/Hz</p>	<p>Trace/View</p> <p>1 Trace 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5670MHz	<p>Agilent R T</p> <p>Ch Freq 5.67 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.60 dBm / 40.0000 MHz -65.42 dBm/Hz</p>	<p>BW/Avg</p> <p>Res BW 1.0000000 MHz Auto Man</p> <p>Video BW 3.0000000 MHz Auto Man</p> <p>VBW/RBW 10.00000 Auto Man</p> <p>Average 10 On Off</p> <p>Avg Type Pwr (RMS) Auto Man</p> <p>EMI Res BW None</p>

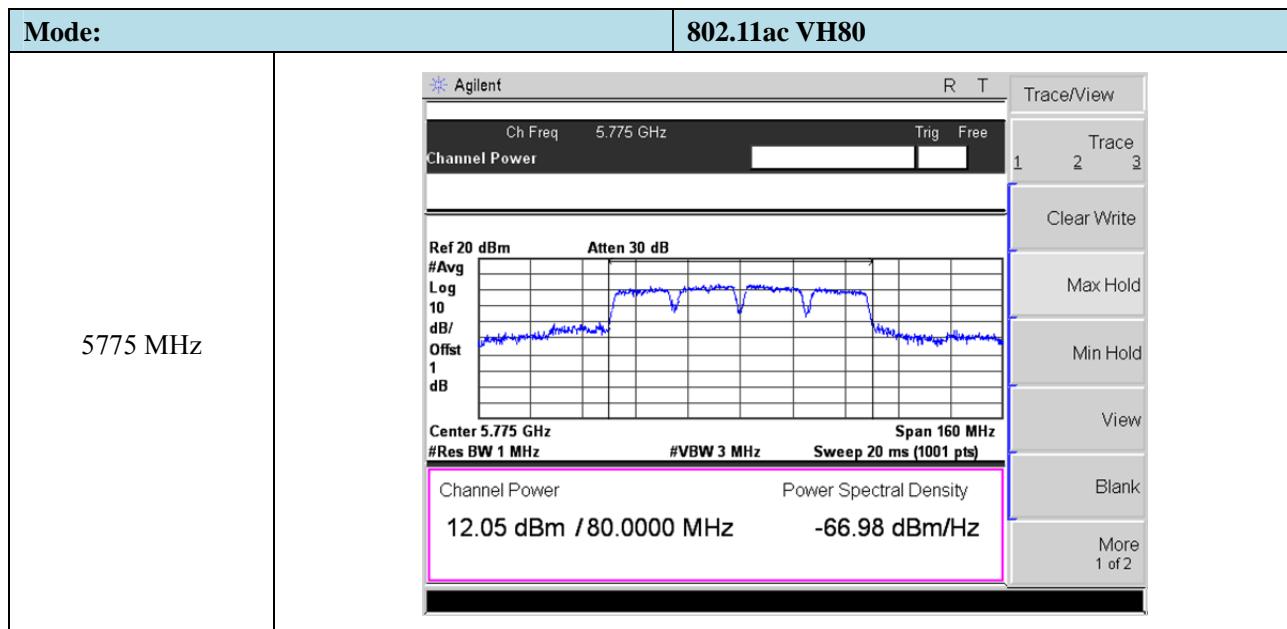
Mode:	802.11ac VH80
5530MHz	<p>Agilent R T</p> <p>Ch Freq 5.53 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.53 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.59 dBm / 80.0000 MHz -68.44 dBm/Hz</p> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>
5610MHz	<p>Agilent R T</p> <p>Ch Freq 5.61 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.61 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.11 dBm / 80.0000 MHz -68.92 dBm/Hz</p> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>

➤ 5725-5850MHz

Mode:	802.11a
5745MHz	<p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.745 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density 12.74 dBm / 20.0000 MHz -60.27 dBm/Hz</p> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>
5785MHz	<p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.785 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density 12.65 dBm / 20.0000 MHz -60.36 dBm/Hz</p> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>
5825MHz	<p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p>  <p>Center 5.825 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density 13.79 dBm / 20.0000 MHz -59.22 dBm/Hz</p> <p>Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2</p>

Mode:	802.11n-HT20
5745MHz	<p>Agilent</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Channel Power</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.745 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>12.22 dBm / 20.0000 MHz -60.79 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5785MHz	<p>Agilent</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Channel Power</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.785 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>12.97 dBm / 20.0000 MHz -60.04 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
5825MHz	<p>Agilent</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Channel Power</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.825 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 40 MHz</p> <p>Channel Power Power Spectral Density</p> <p>12.81 dBm / 20.0000 MHz -59.59 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

Mode:	802.11n-HT40				
5755 MHz	<p>Agilent</p> <p>Ch Freq 5.755 GHz Trig Free</p> <p>Channel Power</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.755 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 80 MHz</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>12.57 dBm / 40.0000 MHz</td> <td>-63.45 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>	Channel Power	Power Spectral Density	12.57 dBm / 40.0000 MHz	-63.45 dBm/Hz
Channel Power	Power Spectral Density				
12.57 dBm / 40.0000 MHz	-63.45 dBm/Hz				
5795 MHz	<p>Agilent</p> <p>Ch Freq 5.795 GHz Trig Free</p> <p>Channel Power</p>  <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.795 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Span 80 MHz</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>12.49 dBm / 40.0000 MHz</td> <td>-63.54 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>	Channel Power	Power Spectral Density	12.49 dBm / 40.0000 MHz	-63.54 dBm/Hz
Channel Power	Power Spectral Density				
12.49 dBm / 40.0000 MHz	-63.54 dBm/Hz				



9. Radiated Spurious Emissions

9.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

According to §15.407(b)(6), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.
789033 D02 v02r01 General UNII Test Procedures New Rules v01

If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((\text{E}^* \text{d})^2) / 30$$

where:

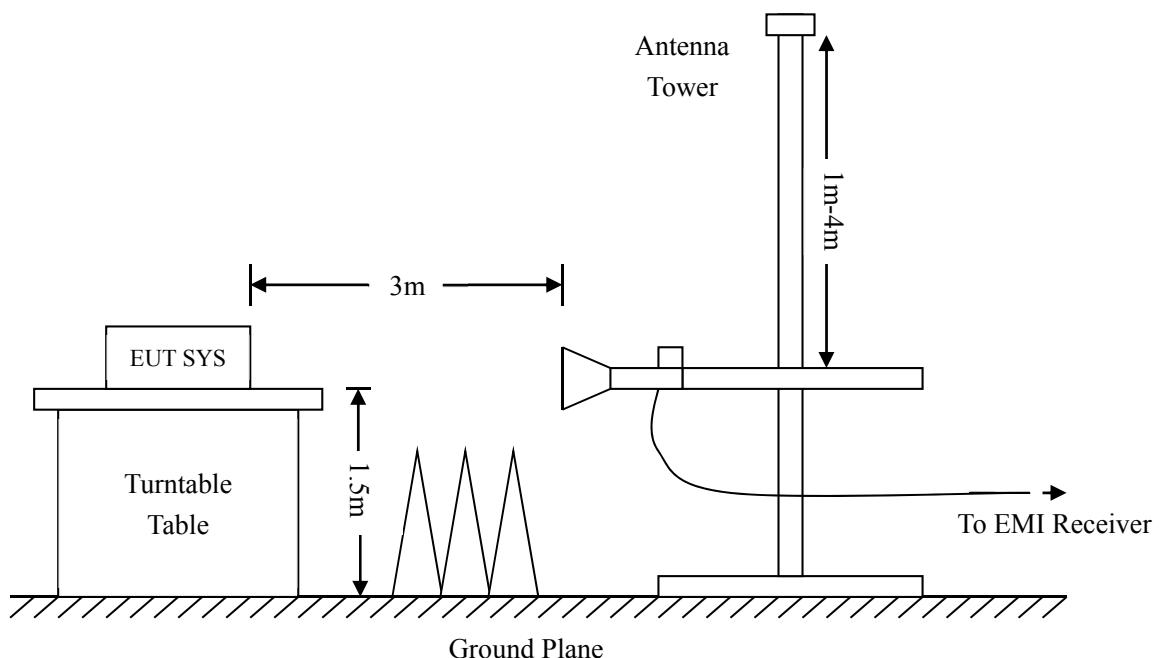
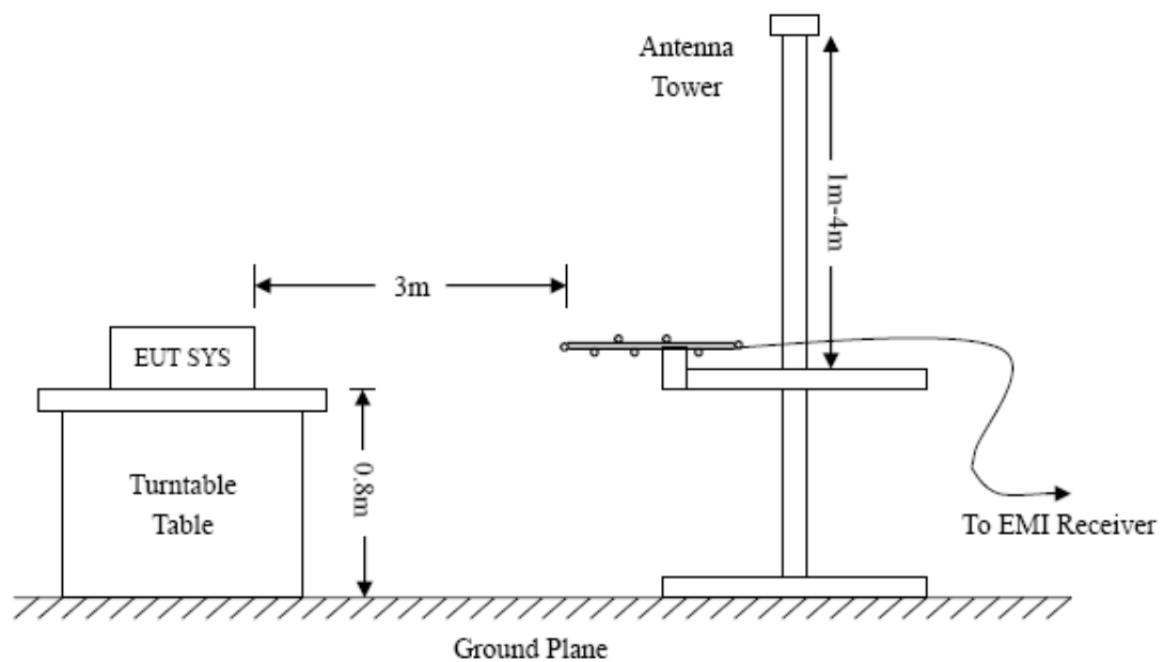
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

9.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



9.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

9.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

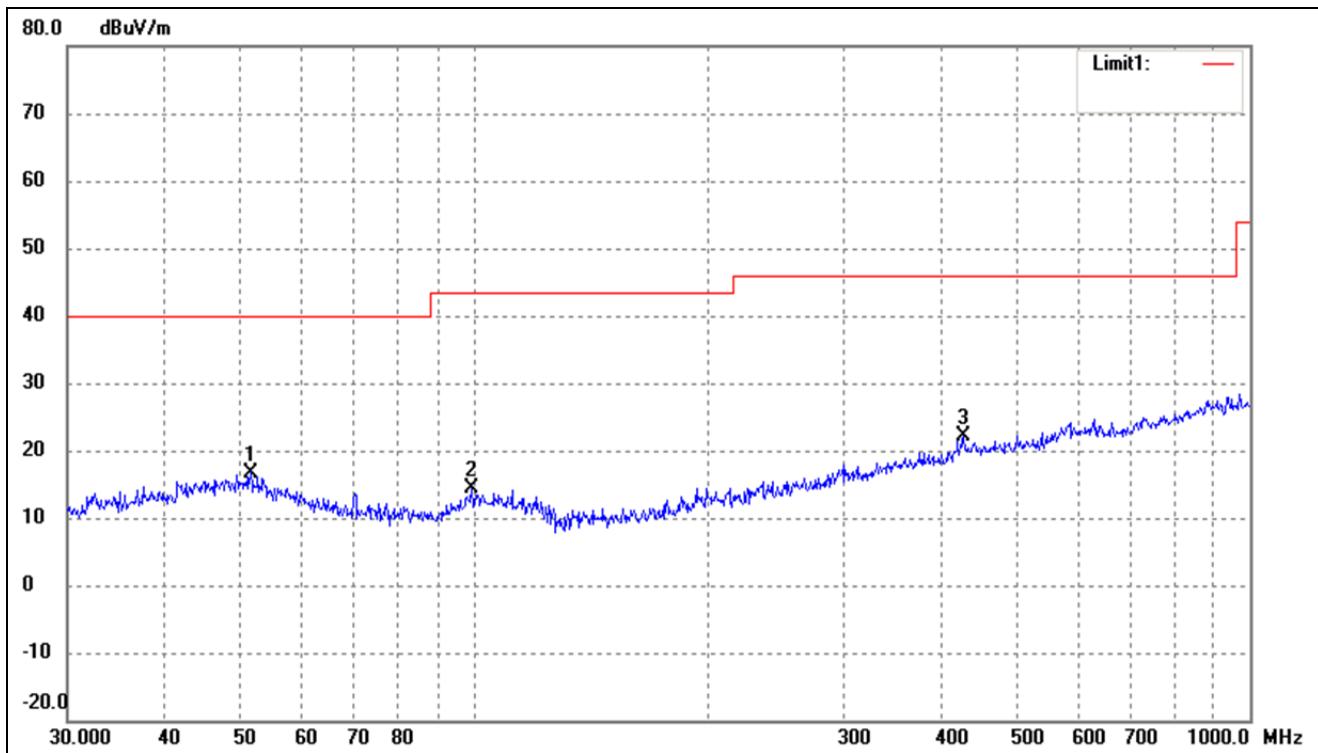
9.5 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

- Spurious Emission From 30 MHz to 1 GHz
- 5150-5250MHz

802.11a

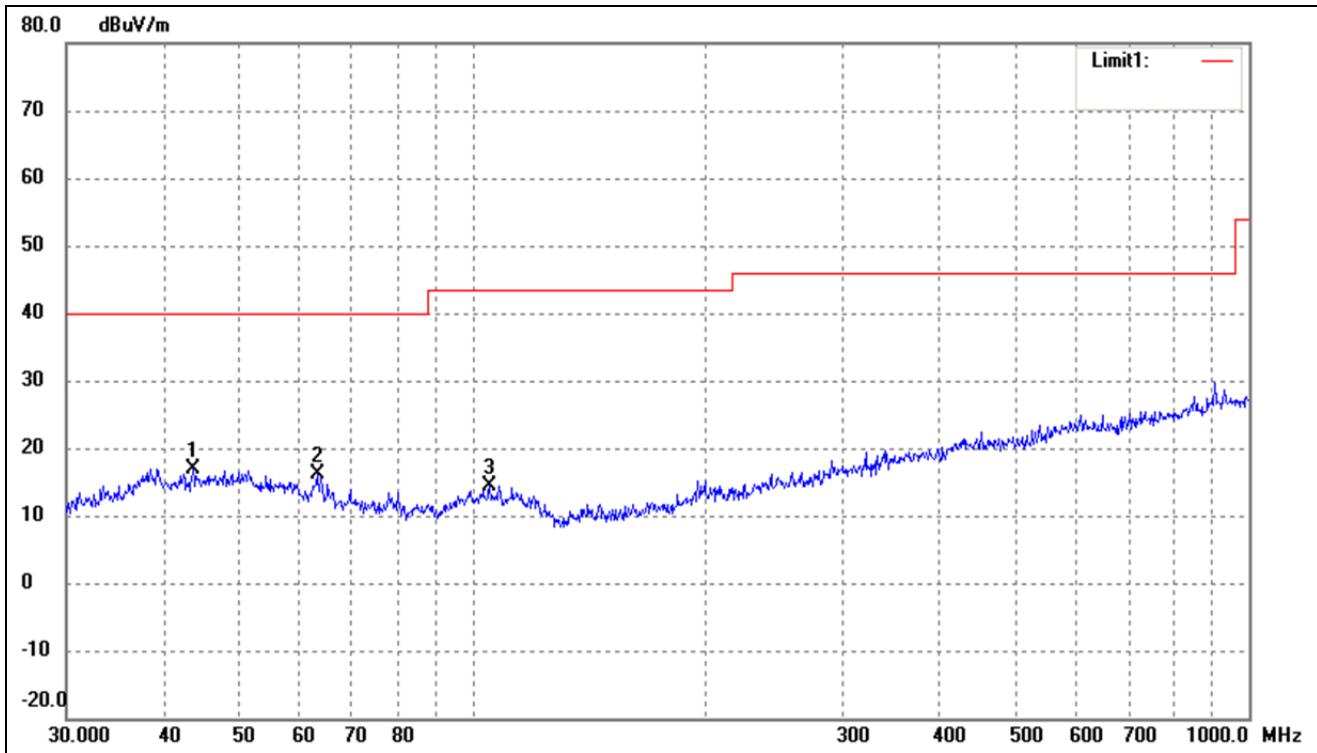
Test Channel	5180MHz(Worst case)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.6616	28.13	-11.38	16.75	40.00	-23.25	331	100	peak
2	99.5281	27.67	-13.29	14.38	43.50	-29.12	90	100	peak
3	428.0193	28.36	-6.19	22.17	46.00	-23.83	353	100	peak

802.11a

Test Channel	5180MHz(Worst case)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree	Height (cm)	Remark
1	43.6585	28.50	-11.66	16.84	40.00	-23.16	165	100	peak
2	63.0916	29.89	-13.79	16.10	40.00	-23.90	206	100	peak
3	105.2718	27.50	-13.09	14.41	43.50	-29.09	90	100	peak

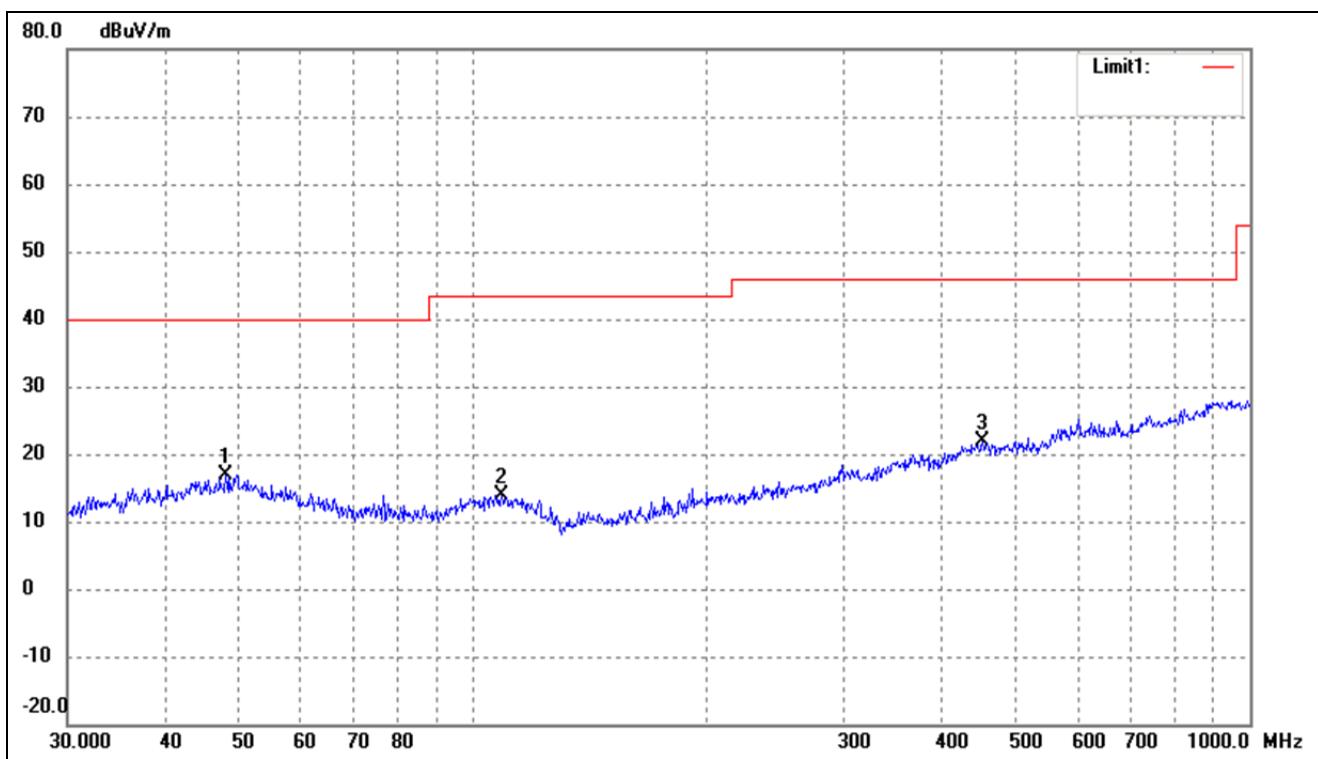
802.11n-HT20

Test Channel

5180MHz(worst case)

Polarity:

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree	Height (cm)	Remark
1	47.9940	28.10	-11.13	16.97	40.00	-23.03	175	100	peak
2	108.6470	26.95	-13.03	13.92	43.50	-29.58	134	100	peak
3	452.7197	28.27	-6.43	21.84	46.00	-24.16	131	100	peak