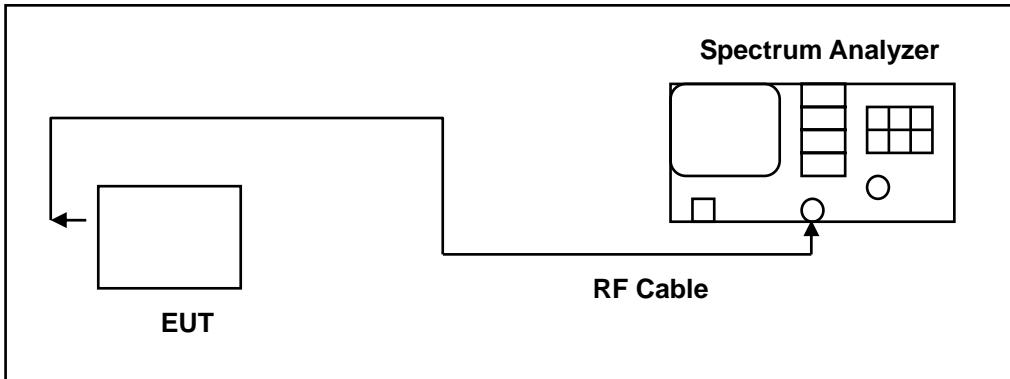


## 9 Out of Band Conducted Emissions Measurement

### ■ Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

### ■ Test Setup



### ■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/15/2015	1 year
Spectrum Analyzer	Agilent	E4408B	MY45107753	08/08/2016	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	02/23/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

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

### ■ Test Procedure

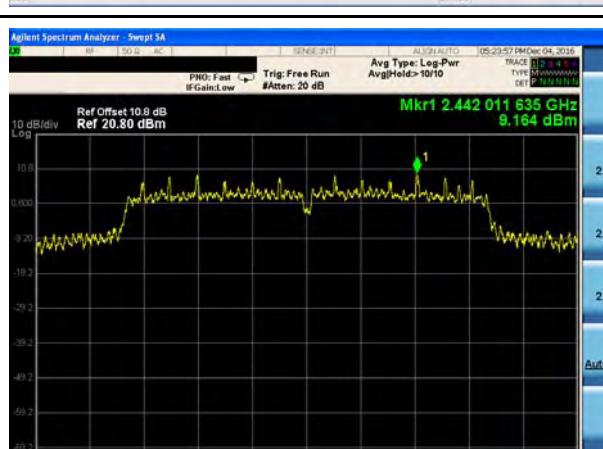
In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 30 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

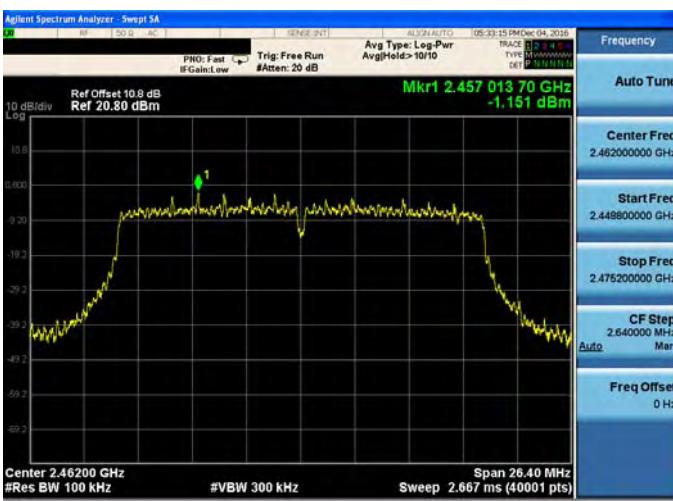
All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band.  
The test was performed at 3 channels.

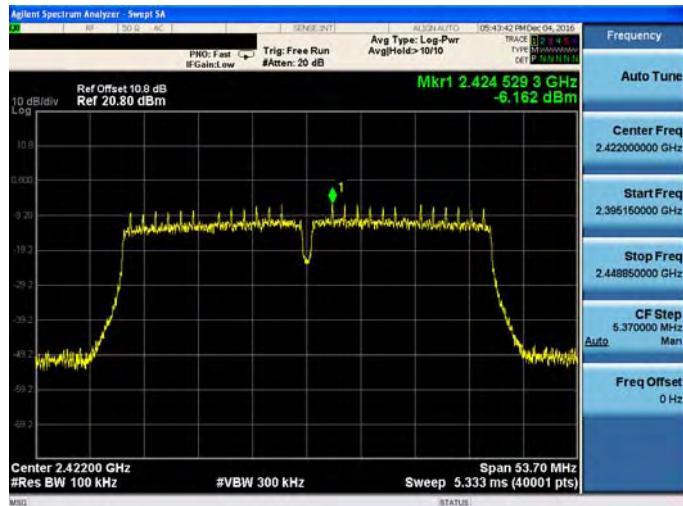
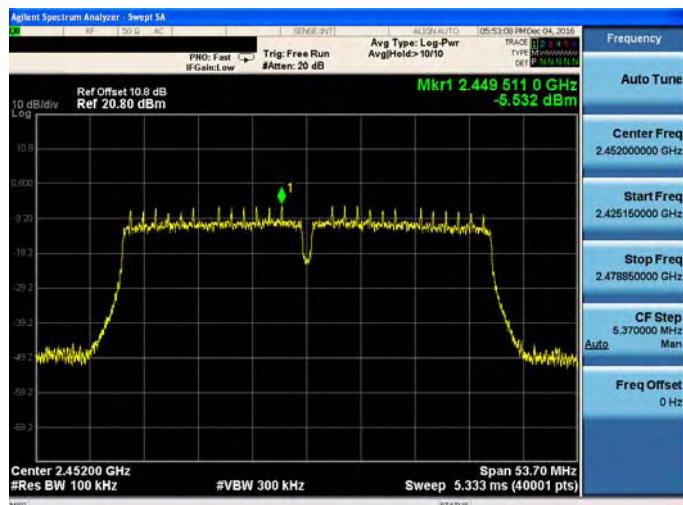
## ■ Test Graphs

## Reference level

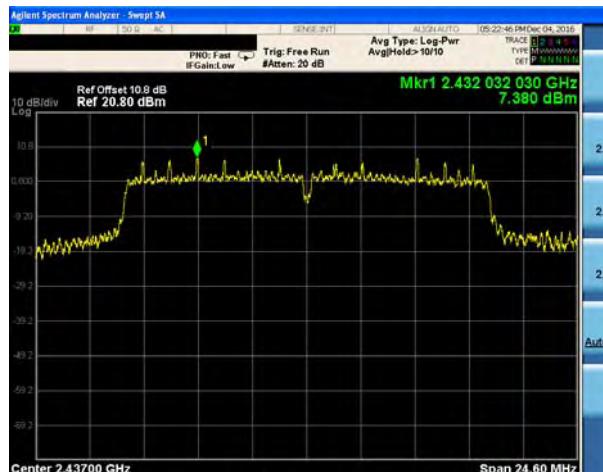
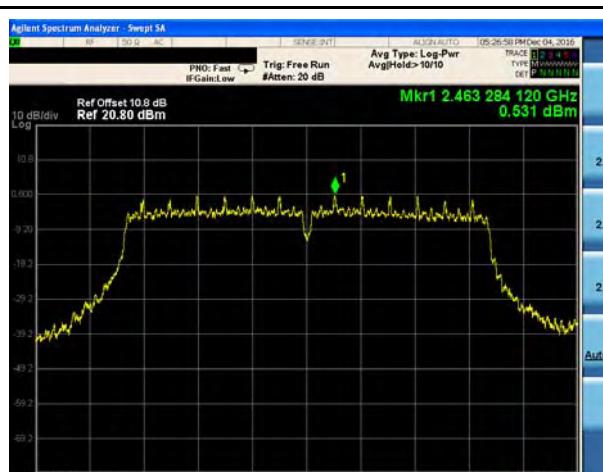
Test Mode:	Mode 2: IEEE 802.11b link mode
Antenna:	ANT-0
2412 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>10 dB/div Log</p> <p>Center 2.412000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.413 018 02 GHz 8.214 dBm</p> <p>Auto Tune</p> <p>Frequency 2.412000000 GHz</p> <p>Start Freq 2.404440000 GHz</p> <p>Stop Freq 2.419600000 GHz</p> <p>CF Step 1.520000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>10 dB/div Log</p> <p>Center 2.437000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.436 023 02 GHz 9.170 dBm</p> <p>Auto Tune</p> <p>Frequency 2.437000000 GHz</p> <p>Start Freq 2.429400000 GHz</p> <p>Stop Freq 2.444600000 GHz</p> <p>CF Step 1.520000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>10 dB/div Log</p> <p>Center 2.462000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.461 018 46 GHz 7.911 dBm</p> <p>Auto Tune</p> <p>Frequency 2.462000000 GHz</p> <p>Start Freq 2.454400000 GHz</p> <p>Stop Freq 2.469600000 GHz</p> <p>CF Step 1.520000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

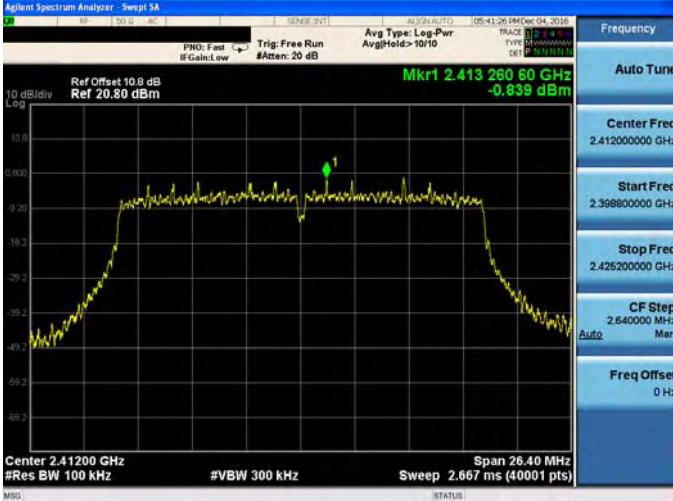
Test Mode:	Mode 3: IEEE 802.11g link mode
Antenna:	ANT-0
2412 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.413 279 200 GHz 0.114 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.399700000 GHz Stop Freq 2.424300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.442 011 635 GHz 9.164 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.424700000 GHz Stop Freq 2.449300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.463 290 270 GHz 0.391 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.449700000 GHz Stop Freq 2.474300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>

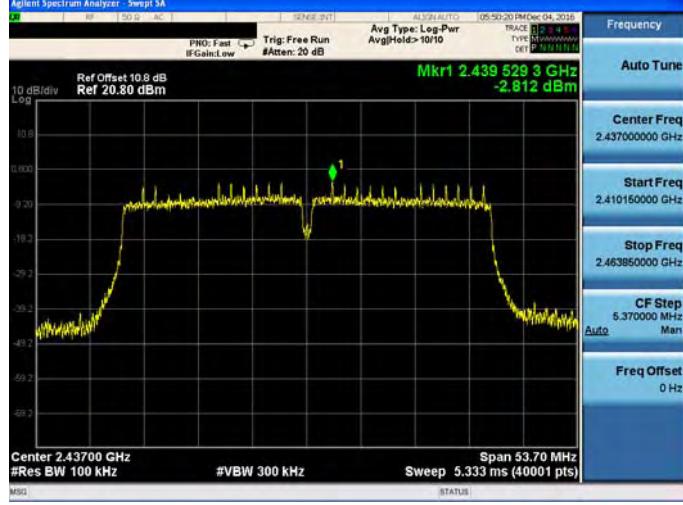
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode
Antenna:	ANT-0
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.414 529 78 GHz -1.144 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.398800000 GHz Stop Freq 2.425200000 GHz CF Step 2.640000 MHz Man Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.08 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.434 507 18 GHz -0.288 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.423800000 GHz Stop Freq 2.460200000 GHz CF Step 2.640000 MHz Man Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.457 013 70 GHz -1.151 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.448800000 GHz Stop Freq 2.475200000 GHz CF Step 2.640000 MHz Man Freq Offset 0 Hz</p>

Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode
Antenna:	ANT-0
2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 5.333 ms (40001 pts)</p> <p>Mkrt 2.424 529 3 GHz -6.162 dBm</p> <p>Frequency Auto Tune Center Freq 2.422000000 GHz Start Freq 2.396150000 GHz Stop Freq 2.448850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 5.333 ms (40001 pts)</p> <p>Mkrt 2.442 021 0 GHz -2.755 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.410150000 GHz Stop Freq 2.463850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 5.333 ms (40001 pts)</p> <p>Mkrt 2.449 511 0 GHz -5.532 dBm</p> <p>Frequency Auto Tune Center Freq 2.452000000 GHz Start Freq 2.425150000 GHz Stop Freq 2.478850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>

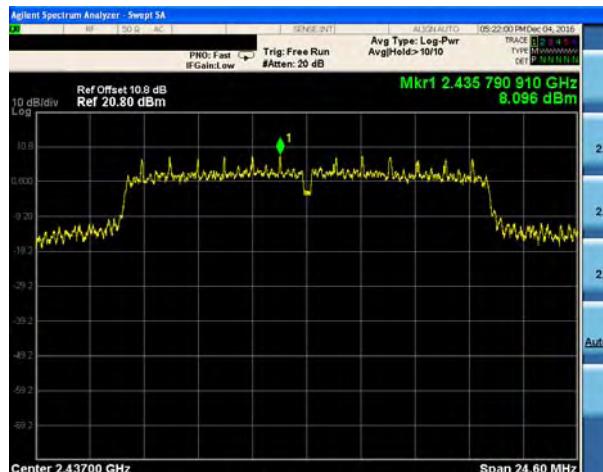
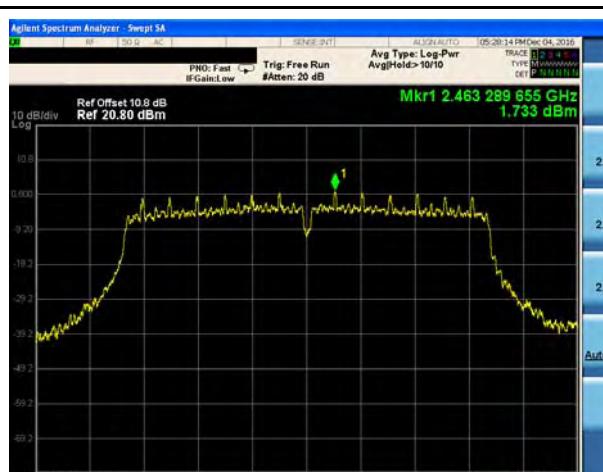
Test Mode:	Mode 2: IEEE 802.11b link mode
Antenna:	ANT-1
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA      PRO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB      Ref Offset 10.8 dB Ref 20.80 dBm      10 dB/div Log      Center 2.412000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 15.20 MHz Span 2.667 ms (40001 pts)      Mkr1 2.411 018 84 GHz 8.540 dBm</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA      PRO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB      Ref Offset 10.8 dB Ref 20.80 dBm      10 dB/div Log      Center 2.437000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 15.20 MHz Span 2.667 ms (40001 pts)      Mkr1 2.436 021 88 GHz 10.745 dBm</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA      PRO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB      Ref Offset 10.8 dB Ref 20.80 dBm      10 dB/div Log      Center 2.462000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 15.20 MHz Span 2.667 ms (40001 pts)      Mkr1 2.461 021 50 GHz 7.783 dBm</p>

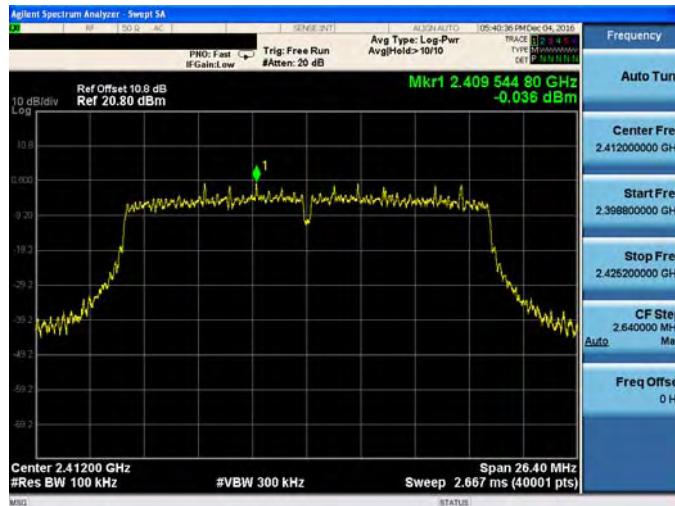
Test Mode:	Mode 3: IEEE 802.11g link mode
Antenna:	ANT-1
2412 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.413 268 745 GHz 0.163 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.399700000 GHz Stop Freq 2.424300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.432 032 030 GHz 7.380 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.424700000 GHz Stop Freq 2.448300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.463 284 120 GHz 0.531 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.449700000 GHz Stop Freq 2.474300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>

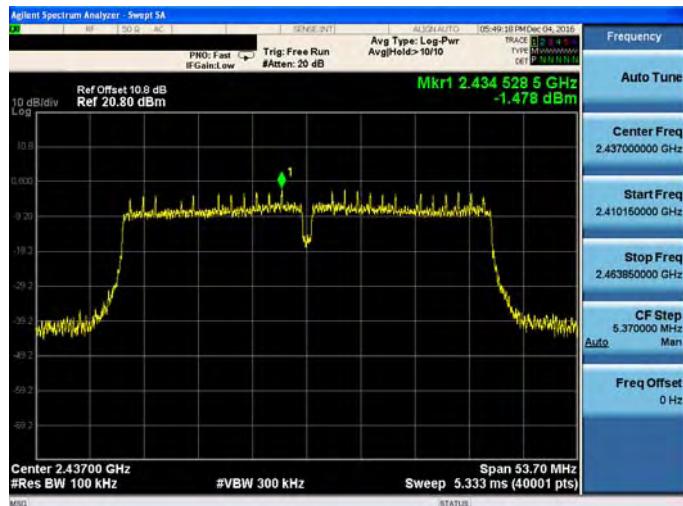
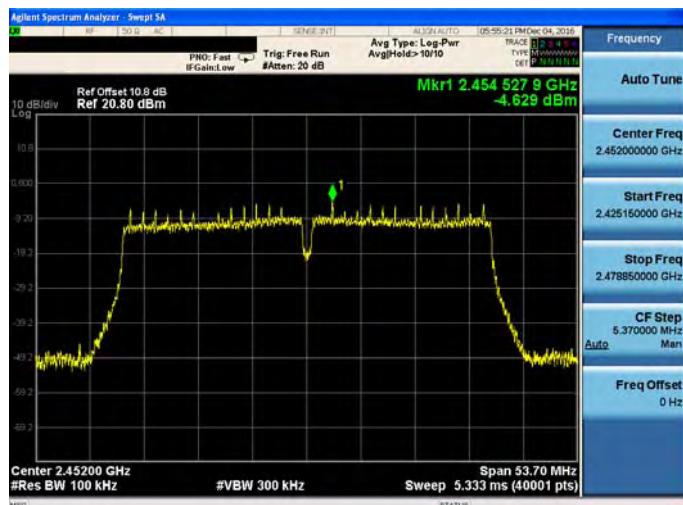
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode
Antenna:	ANT-1
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.413 260 60 GHz -0.839 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.398800000 GHz Stop Freq 2.425200000 GHz CF Step 2.640000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.08 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.435 736 76 GHz 0.534 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.423800000 GHz Stop Freq 2.450200000 GHz CF Step 2.640000 MHz Auto Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.455 752 44 GHz -1.250 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.448800000 GHz Stop Freq 2.475200000 GHz CF Step 2.640000 MHz Auto Freq Offset 0 Hz</p>

Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode
Antenna:	ANT-1
2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA  Ref Offset 10.8 dB  Ref 20.80 dBm  10 dB/div Log  Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 53.70 MHz Avg Type: Log-Pwr Avg/Hold&gt; 10/10 Mkrt 2.437 014 5 GHz -5.655 dBm TRACE 1 2 4 5 TYPE: VBW=300KHz DET: DMW/NFM Frequency Auto Tune Center Freq 2.422000000 GHz Start Freq 2.396150000 GHz Stop Freq 2.448850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA  Ref Offset 10.8 dB  Ref 20.80 dBm  10 dB/div Log  Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 53.70 MHz Avg Type: Log-Pwr Avg/Hold&gt; 10/10 Mkrt 2.439 529 3 GHz -2.812 dBm TRACE 1 2 4 5 TYPE: VBW=300KHz DET: DMW/NFM Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.410150000 GHz Stop Freq 2.463850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA  Ref Offset 10.8 dB  Ref 20.80 dBm  10 dB/div Log  Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 53.70 MHz Avg Type: Log-Pwr Avg/Hold&gt; 10/10 Mkrt 2.447 009 9 GHz -5.445 dBm TRACE 1 2 4 5 TYPE: VBW=300KHz DET: DMW/NFM Frequency Auto Tune Center Freq 2.452000000 GHz Start Freq 2.425150000 GHz Stop Freq 2.478850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>

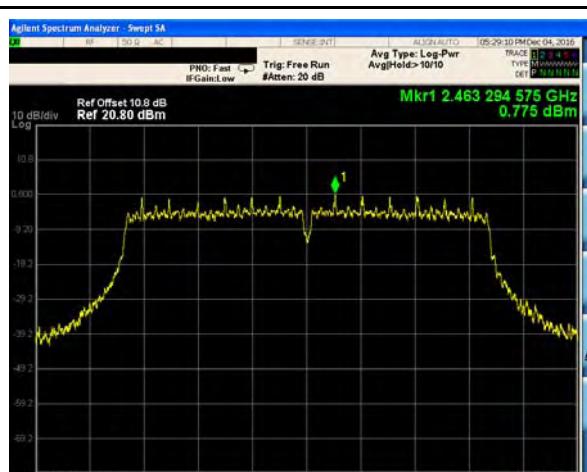
Test Mode:	Mode 2: IEEE 802.11b link mode
Antenna:	ANT-2
2412 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.413 019 54 GHz 9.823 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.404400000 GHz Stop Freq 2.419600000 GHz CF Step 1.520000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.438 022 96 GHz 11.156 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.429400000 GHz Stop Freq 2.444600000 GHz CF Step 1.520000 MHz Auto Freq Offset 0 Hz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.463 021 82 GHz 8.739 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.454400000 GHz Stop Freq 2.469600000 GHz CF Step 1.520000 MHz Auto Freq Offset 0 Hz</p>

Test Mode:	Mode 3: IEEE 802.11g link mode
Antenna:	ANT-2
2412 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.414 507 970 GHz 1.347 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.399700000 GHz Stop Freq 2.424300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.435 790 910 GHz 8.096 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.424700000 GHz Stop Freq 2.448300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.463 289 655 GHz 1.733 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.449700000 GHz Stop Freq 2.474300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>

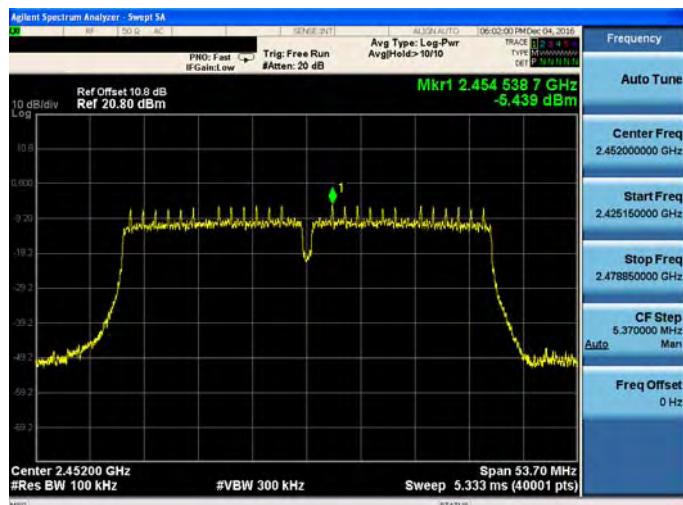
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode
Antenna:	ANT-2
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>10 dB/div Log</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.409 544 80 GHz -0.036 dBm</p> <p>Auto Tune</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.39880000 GHz</p> <p>Stop Freq 2.42520000 GHz</p> <p>CF Step 2.640000 MHz Auto</p> <p>Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.08 dBm</p> <p>10 dB/div Log</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.444 507 50 GHz 0.707 dBm</p> <p>Auto Tune</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.42380000 GHz</p> <p>Stop Freq 2.46020000 GHz</p> <p>CF Step 2.640000 MHz Auto</p> <p>Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>10 dB/div Log</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.463 288 52 GHz 0.279 dBm</p> <p>Auto Tune</p> <p>Center Freq 2.46200000 GHz</p> <p>Start Freq 2.44880000 GHz</p> <p>Stop Freq 2.47520000 GHz</p> <p>CF Step 2.640000 MHz Auto</p> <p>Freq Offset 0 Hz</p>

Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode
Antenna:	ANT-2
2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 5.333 ms (40001 pts)</p> <p>Mkr1 2.419 509 7 GHz -4.671 dBm</p> <p>Frequency Auto Tune Center Freq 2.422000000 GHz Start Freq 2.396150000 GHz Stop Freq 2.448850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 5.333 ms (40001 pts)</p> <p>Mkr1 2.434 528 5 GHz -1.478 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.410150000 GHz Stop Freq 2.463850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 53.70 MHz Span 5.333 ms (40001 pts)</p> <p>Mkr1 2.454 527 9 GHz -4.629 dBm</p> <p>Frequency Auto Tune Center Freq 2.452000000 GHz Start Freq 2.425150000 GHz Stop Freq 2.478850000 GHz CF Step 5.370000 MHz Auto Freq Offset 0 Hz</p>

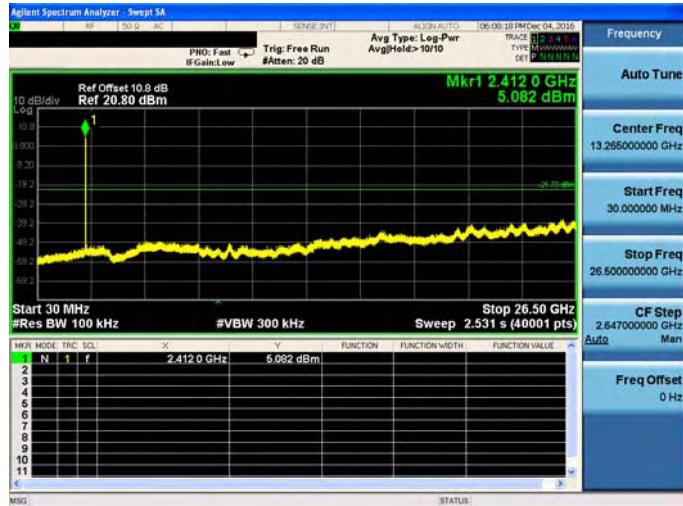
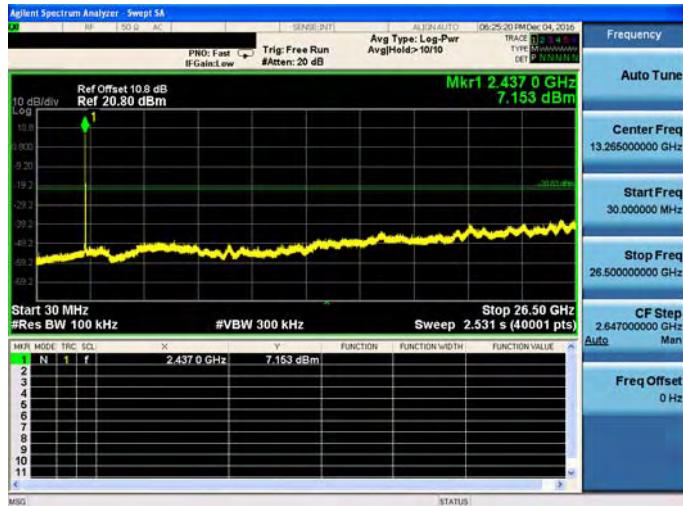
Test Mode:	Mode 2: IEEE 802.11b link mode
Antenna:	ANT-3
2412 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.411 019 90 GHz 9.039 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.404400000 GHz Stop Freq 2.419600000 GHz CF Step 1.520000 MHz Auto Freq Offset 0 Hz</p> <p>10 dB/div Log</p> <p>10.8 0.000 -10.8 -20.8 -30.8 -40.8 -50.8 -60.8 -70.8 -80.8 -90.8 -100.8</p> <p>Center 2.412000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 15.20 MHz Span 2.667 ms (40001 pts)</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.436 019 98 GHz 10.500 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.429400000 GHz Stop Freq 2.444600000 GHz CF Step 1.520000 MHz Auto Freq Offset 0 Hz</p> <p>10 dB/div Log</p> <p>10.8 0.000 -10.8 -20.8 -30.8 -40.8 -50.8 -60.8 -70.8 -80.8 -90.8 -100.8</p> <p>Center 2.437000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 15.20 MHz Span 2.667 ms (40001 pts)</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.461 021 88 GHz 8.175 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.454400000 GHz Stop Freq 2.469600000 GHz CF Step 1.520000 MHz Auto Freq Offset 0 Hz</p> <p>10 dB/div Log</p> <p>10.8 0.000 -10.8 -20.8 -30.8 -40.8 -50.8 -60.8 -70.8 -80.8 -90.8 -100.8</p> <p>Center 2.462000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 15.20 MHz Span 2.667 ms (40001 pts)</p>

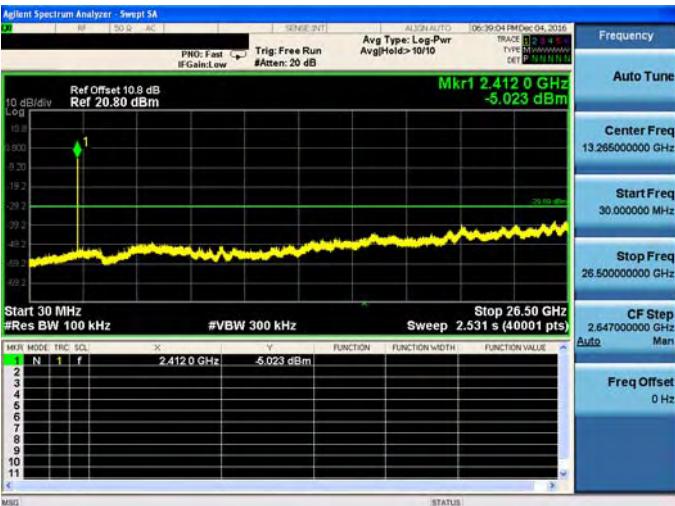
Test Mode:	Mode 3: IEEE 802.11g link mode
Antenna:	ANT-3
2412 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.413 284 120 GHz 0.651 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.399700000 GHz Stop Freq 2.424300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.442 019 015 GHz 7.391 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.424700000 GHz Stop Freq 2.449300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p>  <p>Mkr1 2.463 294 575 GHz 0.775 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.449700000 GHz Stop Freq 2.474300000 GHz CF Step 2.460000 MHz Auto Freq Offset 0 Hz</p>

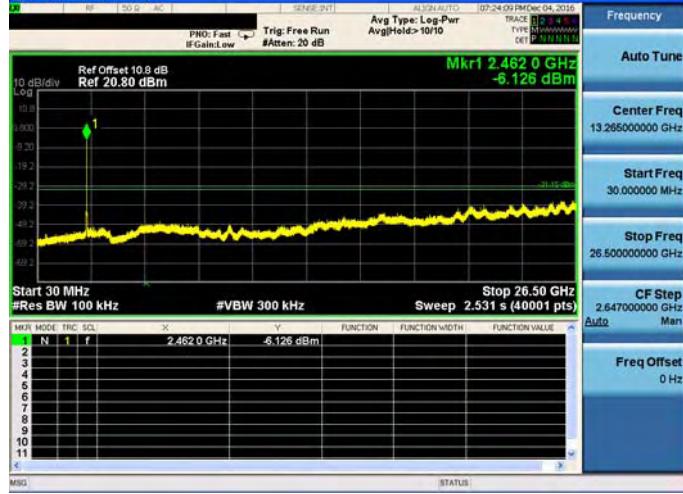
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode
Antenna:	ANT-3
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.417 009 40 GHz -0.573 dBm</p> <p>Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.398800000 GHz Stop Freq 2.425200000 GHz CF Step 2.640000 MHz Man Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.08 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.442 012 70 GHz 0.151 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.423800000 GHz Stop Freq 2.460200000 GHz CF Step 2.640000 MHz Man Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 26.40 MHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.463 287 66 GHz -0.207 dBm</p> <p>Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.448800000 GHz Stop Freq 2.475200000 GHz CF Step 2.640000 MHz Man Freq Offset 0 Hz</p>

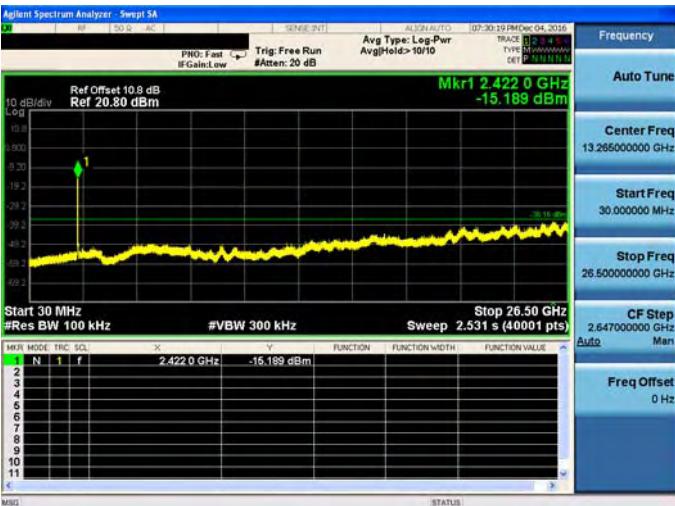
Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode
Antenna:	ANT-3
2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA  Ref Offset 10.8 dB  Ref 20.80 dBm  10 dB/div Log  Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.333 ms (40001 pts)  Span 53.70 MHz Avg Type: Log-Pwr Avg/Hold&gt; 10/10 Mkrt 2.417 023 4 GHz -5.897 dBm  PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB ALIGN AUTO TRACE 1 2 4 5 6 7 8 9 10 TYPE: B1111111111 DET: D1111111111  Frequency Auto Tune  Center Freq 2.422000000 GHz  Start Freq 2.396150000 GHz  Stop Freq 2.448850000 GHz  CF Step 5.370000 MHz Auto  Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA  Ref Offset 10.8 dB  Ref 20.80 dBm  10 dB/div Log  Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.333 ms (40001 pts)  Span 53.70 MHz Avg Type: Log-Pwr Avg/Hold&gt; 10/10 Mkrt 2.434 511 0 GHz -2.483 dBm  PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB ALIGN AUTO TRACE 1 2 4 5 6 7 8 9 10 TYPE: B1111111111 DET: D1111111111  Frequency Auto Tune  Center Freq 2.437000000 GHz  Start Freq 2.410150000 GHz  Stop Freq 2.463850000 GHz  CF Step 5.370000 MHz Auto  Freq Offset 0 Hz</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA  Ref Offset 10.8 dB  Ref 20.80 dBm  10 dB/div Log  Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.333 ms (40001 pts)  Span 53.70 MHz Avg Type: Log-Pwr Avg/Hold&gt; 10/10 Mkrt 2.454 538 7 GHz -5.439 dBm  PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB ALIGN AUTO TRACE 1 2 4 5 6 7 8 9 10 TYPE: B1111111111 DET: D1111111111  Frequency Auto Tune  Center Freq 2.452000000 GHz  Start Freq 2.425150000 GHz  Stop Freq 2.478850000 GHz  CF Step 5.370000 MHz Auto  Freq Offset 0 Hz</p>

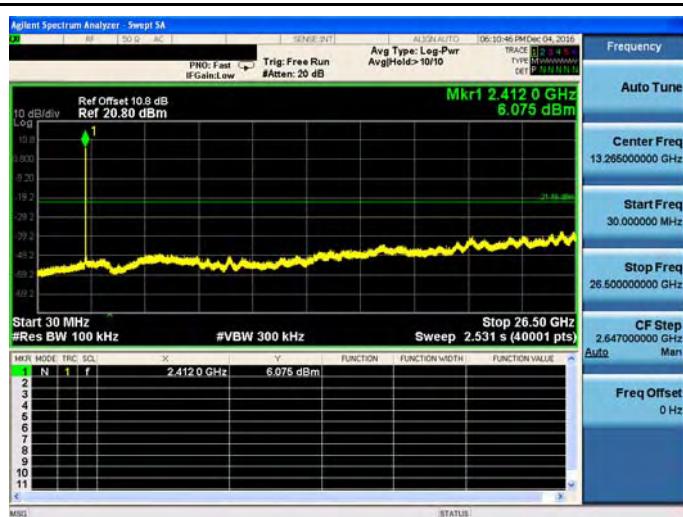
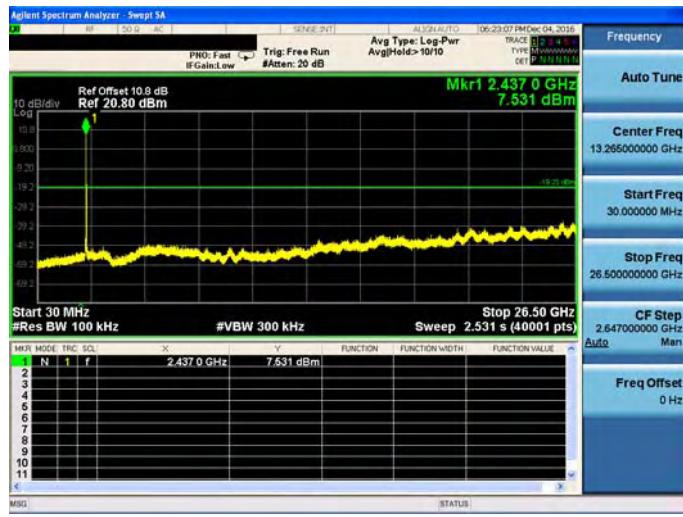
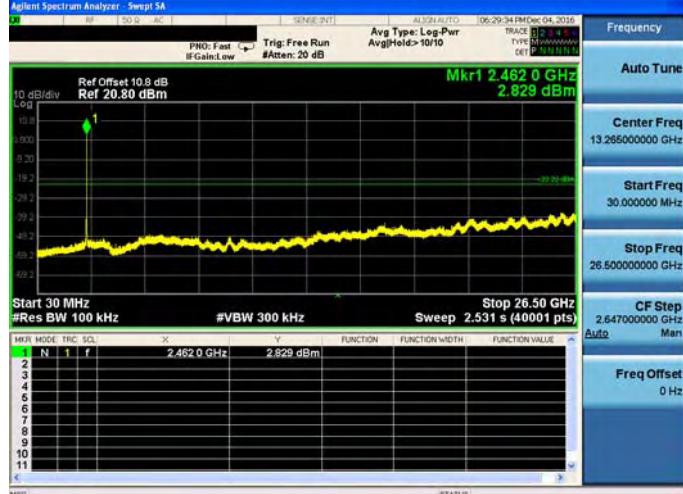
### Out of Band Conducted Emissions

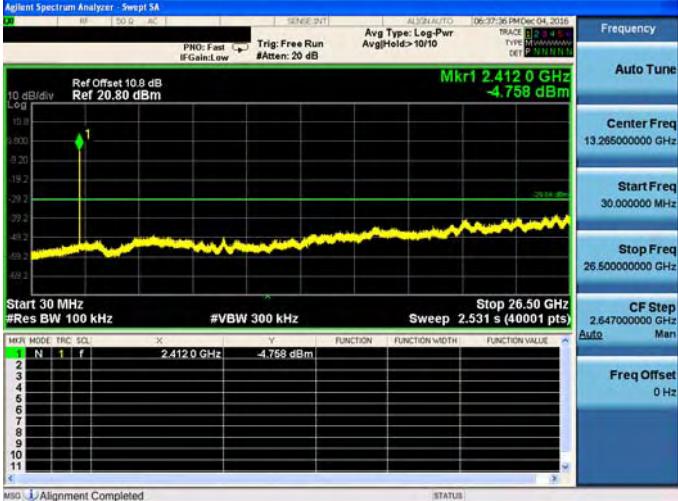
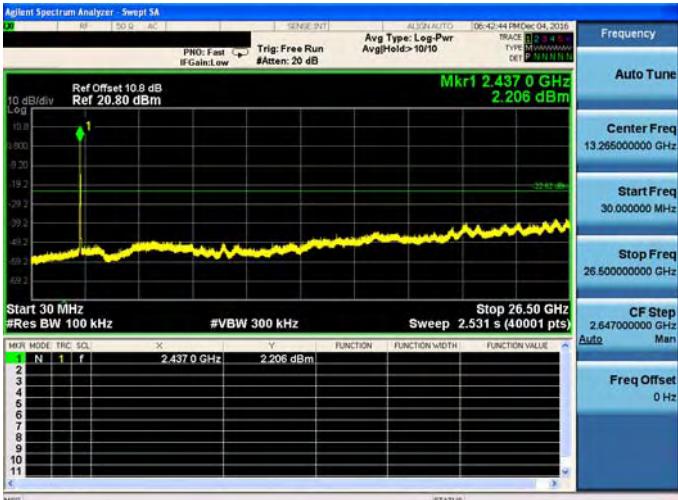
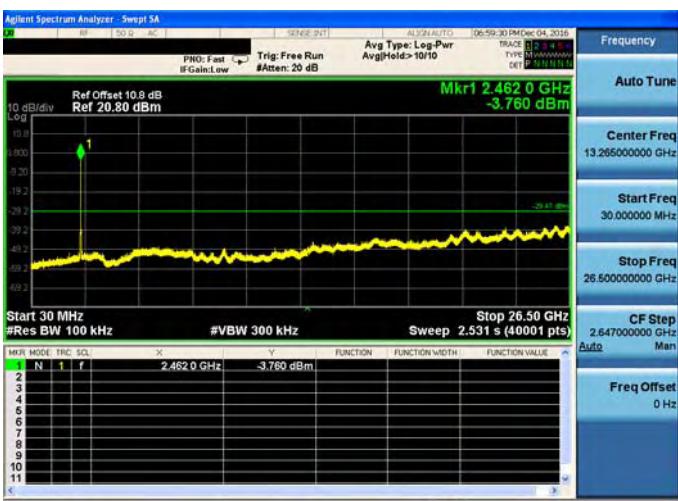
Test Mode:	Mode 2: IEEE 802.11b link mode																																																																																																												
Antenna:	ANT-0																																																																																																												
2412 MHz	 <p>Mkr1 2.412 0 GHz 5.082 dBm</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <tr> <td>MFR</td> <td>MODE</td> <td>TRC</td> <td>SCL</td> <td>X</td> <td>Y</td> <td>FUNCTION</td> <td>FUNCTION WIDTH</td> <td>FUNCTION VALUE</td> </tr> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.412 0 GHz</td> <td>5.082 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	MFR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.412 0 GHz	5.082 dBm				2									3									4									5									6									7									8									9									10									11								
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Test Mode:	Mode 3: IEEE 802.11g link mode																
Antenna:	ANT-0																
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>PRO: Fast Trig: Free Run #Atten: 20 dB</p> <p>Avg Type: Log-Pwr Avg/Hold&gt; 10/10</p> <p>Mkr1 2.412 0 GHz -5.023 dBm</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE</p> <table border="1"> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.412 0 GHz</td> <td>-5.023 dBm</td> </tr> <tr> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> </table> <p>MSG STATUS</p>	1	N	1	f	2.412 0 GHz	-5.023 dBm	2	3	4	5	6	7	8	9	10	11
1	N	1	f	2.412 0 GHz	-5.023 dBm												
2	3	4	5	6	7	8	9	10	11								
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2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>PRO: Fast Trig: Free Run #Atten: 20 dB</p> <p>Avg Type: Log-Pwr Avg/Hold&gt; 10/10</p> <p>Mkr1 2.462 0 GHz -5.098 dBm</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE</p> <table border="1"> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.462 0 GHz</td> <td>-5.098 dBm</td> </tr> <tr> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> </table> <p>MSG STATUS</p>	1	N	1	f	2.462 0 GHz	-5.098 dBm	2	3	4	5	6	7	8	9	10	11
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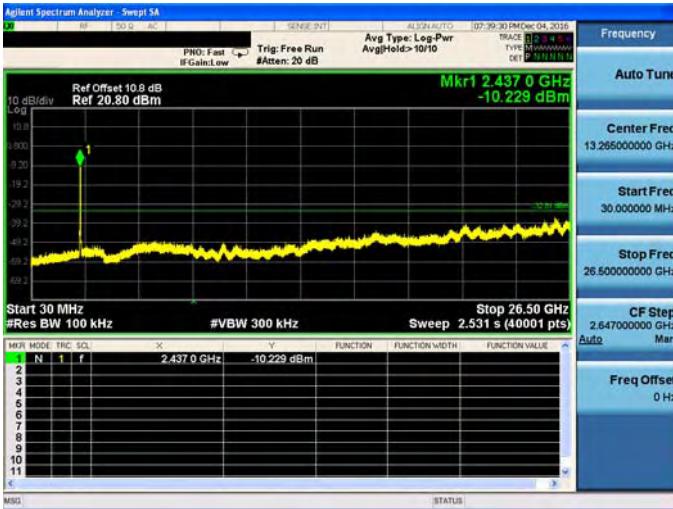
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode																
Antenna:	ANT-0																
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>Mkr1 2.412 0 GHz -5.575 dBm</p> <p>FUNCTION FUNCTION WIDTH FUNCTION VALUE</p> <table border="1"> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.412 0 GHz</td> <td>-5.575 dBm</td> </tr> <tr> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> </table> <p>MSG STATUS</p>	1	N	1	f	2.412 0 GHz	-5.575 dBm	2	3	4	5	6	7	8	9	10	11
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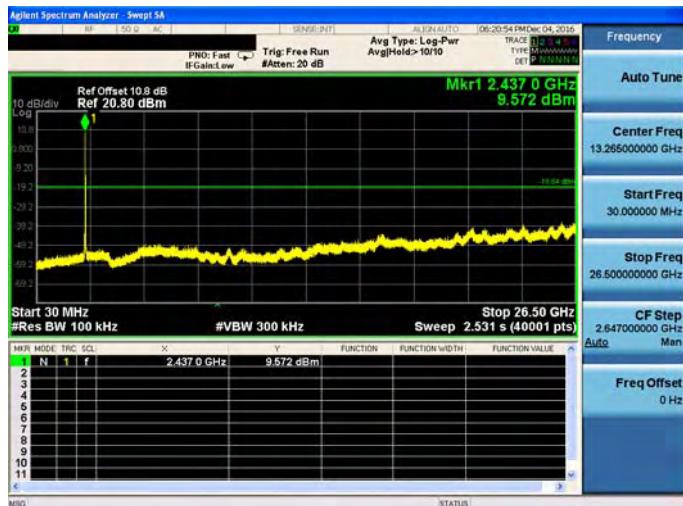
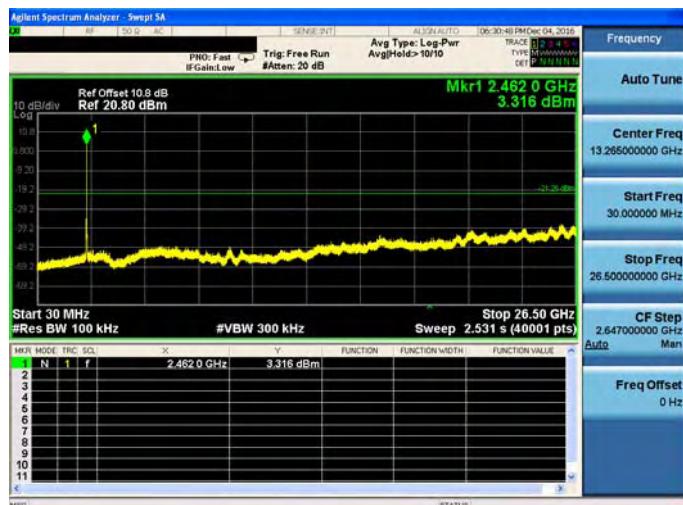
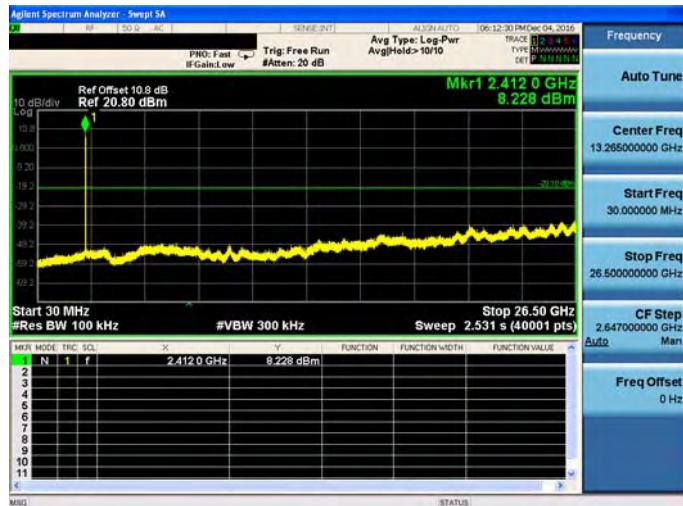
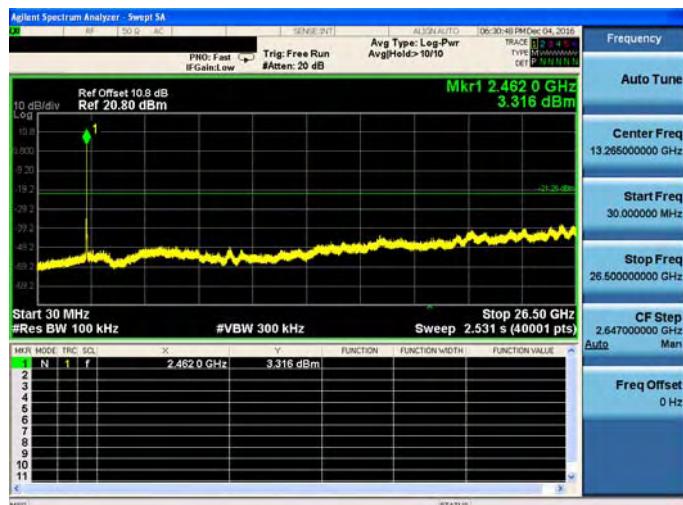
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Test Mode:	Mode 2: IEEE 802.11b link mode
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2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA    PRO: Fast Trig: Free Run Avg Type: Log-Pwr    IF Gain: Low #Atten: 20 dB Avg Hold &gt; 10/10 TRACE 1 2 3 4 5 6 7 8 9 10 11    Ref Offset 10.8 dB Ref 20.80 dBm Mkr1 2.4120 GHz 6.075 dBm    10 dB/div Start 30 MHz Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)    Mkr1 MODE: TRC SCL: X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE:    1 N 1 f 2.4120 GHz 6.075 dBm    2 3 4 5 6 7 8 9 10 11    MSG STATUS</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA    PRO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold &gt; 10/10 TRACE 1 2 3 4 5 6 7 8 9 10 11    Ref Offset 10.8 dB Ref 20.80 dBm Mkr1 2.4370 GHz 7.531 dBm    10 dB/div Start 30 MHz Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)    Mkr1 MODE: TRC SCL: X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE:    1 N 1 f 2.4370 GHz 7.531 dBm    2 3 4 5 6 7 8 9 10 11    MSG STATUS</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA    PRO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold &gt; 10/10 TRACE 1 2 3 4 5 6 7 8 9 10 11    Ref Offset 10.8 dB Ref 20.80 dBm Mkr1 2.4620 GHz 2.829 dBm    10 dB/div Start 30 MHz Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)    Mkr1 MODE: TRC SCL: X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE:    1 N 1 f 2.4620 GHz 2.829 dBm    2 3 4 5 6 7 8 9 10 11    MSG STATUS</p>

Test Mode:	Mode 3: IEEE 802.11g link mode																																																																																																
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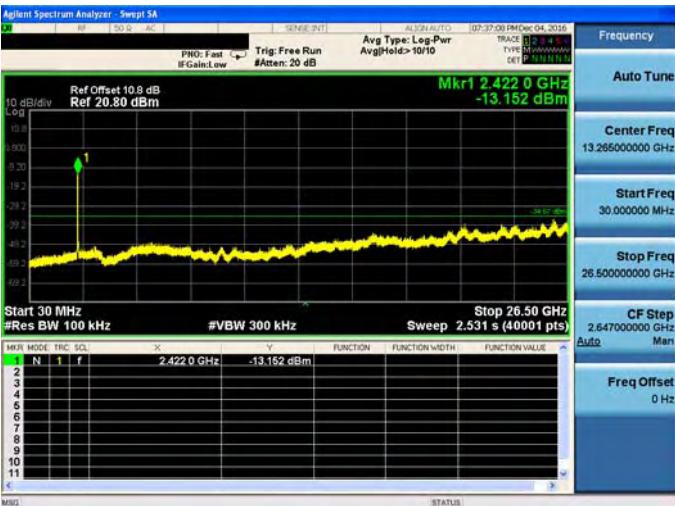
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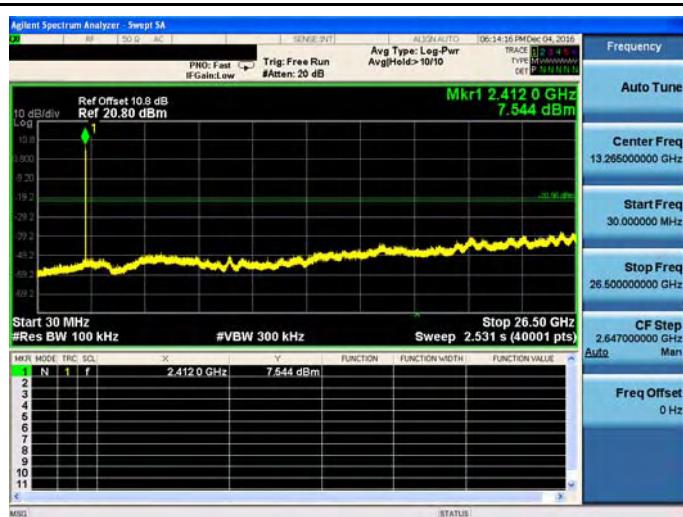
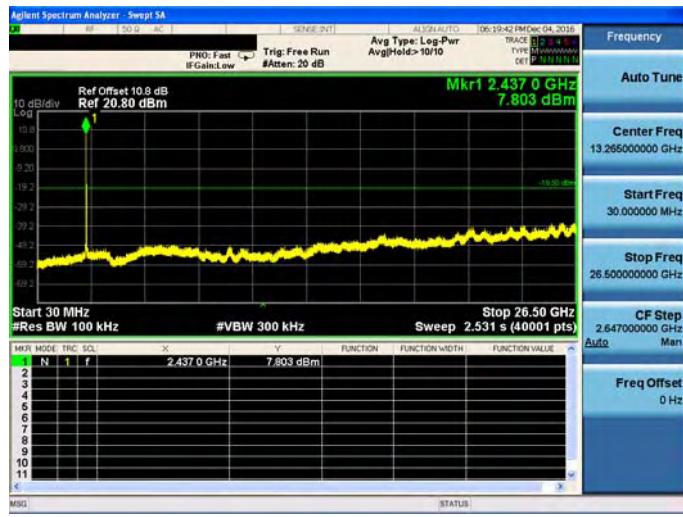
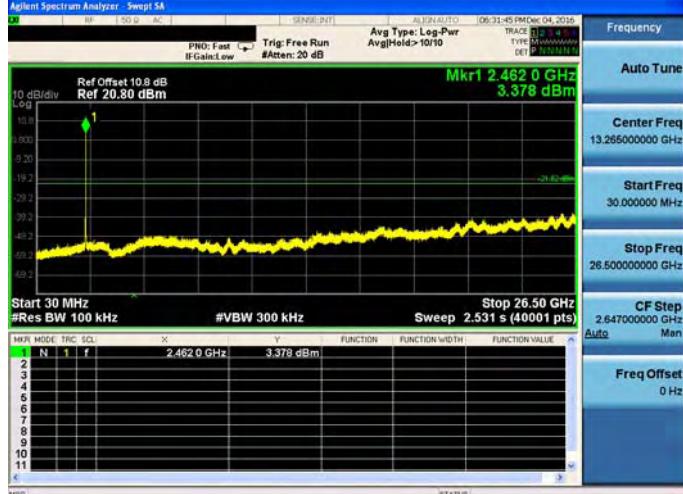
Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode																								
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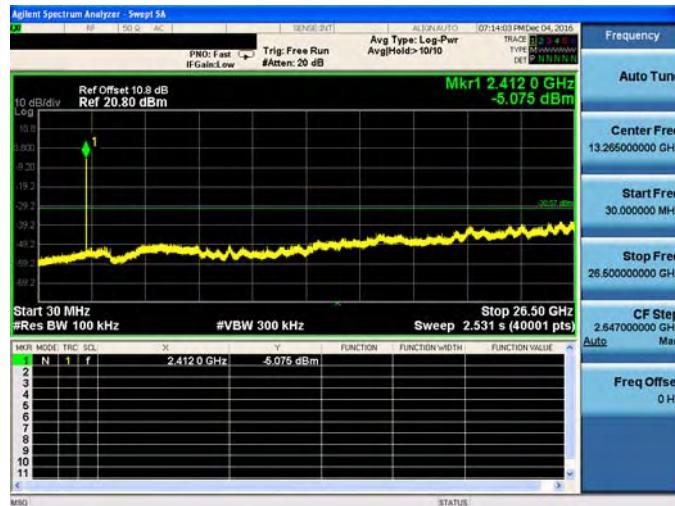
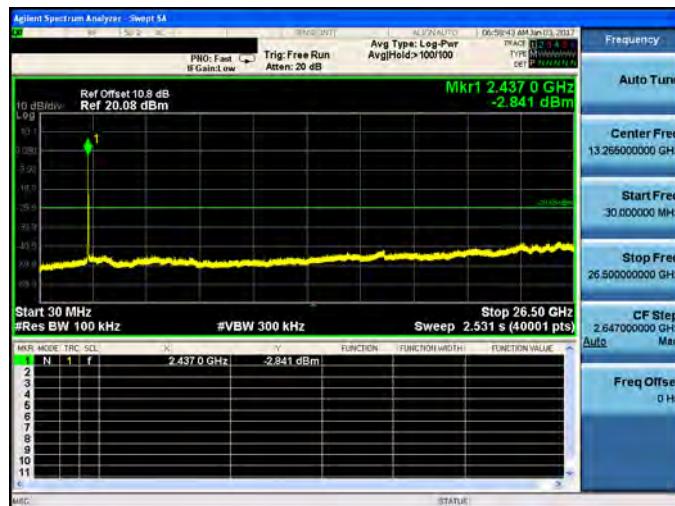
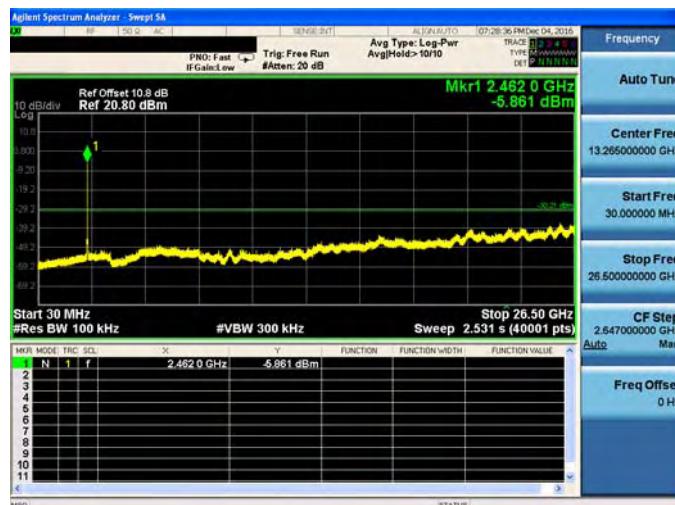
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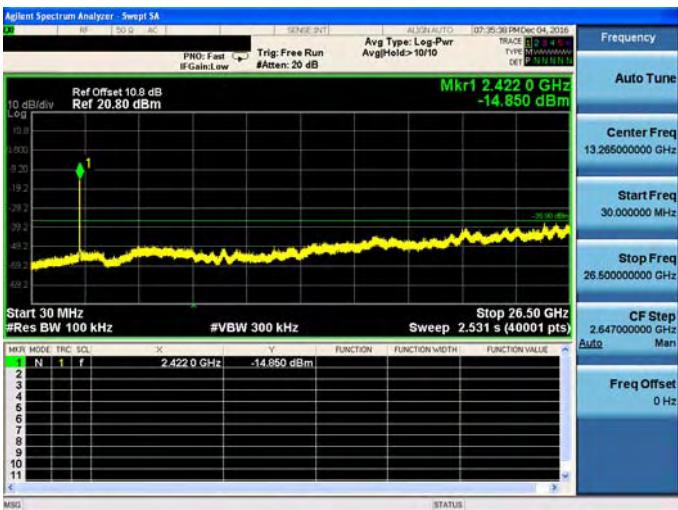
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode																																				
Antenna:	ANT-2																																				
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Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode																
Antenna:	ANT-2																
2422 MHz	 <p>Spectrum Analyzer Screenshot (2422 MHz):</p> <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>Mkr1 2.422 0 GHz -13.152 dBm</p> <p>FUNCTION FUNCTION WIDTH FUNCTION VALUE</p> <table border="1"> <tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.422 0 GHz</td><td>-13.152 dBm</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> </table>	1	N	1	f	2.422 0 GHz	-13.152 dBm	2	3	4	5	6	7	8	9	10	11
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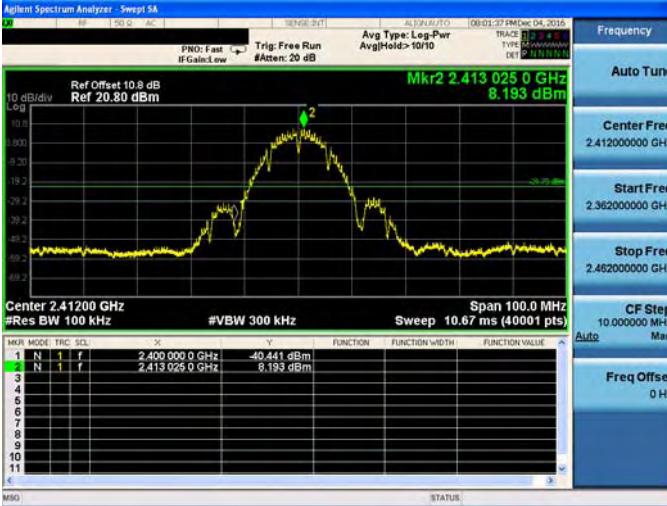
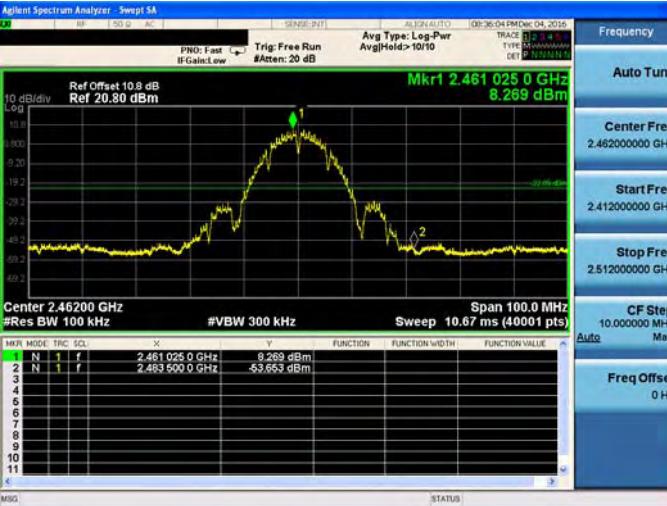
Test Mode:	Mode 2: IEEE 802.11b link mode																																																																																				
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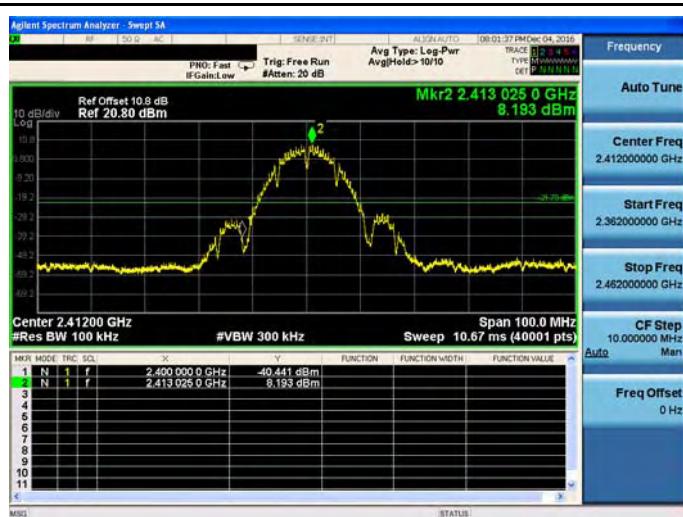
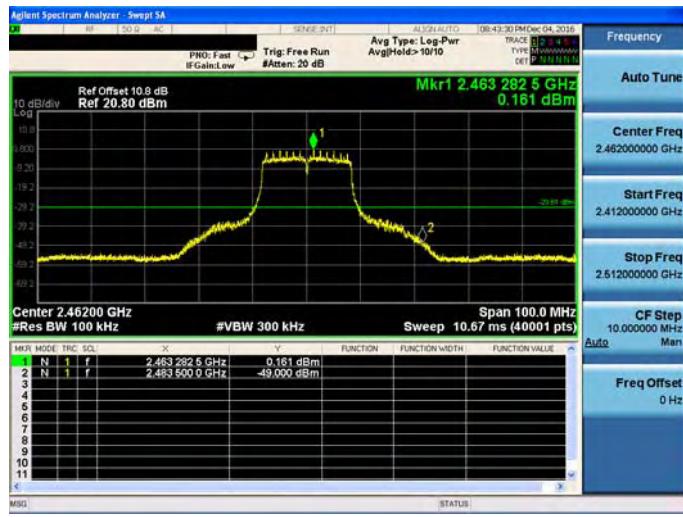
Test Mode:	Mode 3: IEEE 802.11g link mode
Antenna:	ANT-3
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA  PRO: Fast Trig: Free Run Avg Type: Log-Pwr  IF Gain: Low #Atten: 20 dB  Ref Offset 10.8 dB Ref 20.80 dBm  Start 30 MHz Stop 26.50 GHz  #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)  Mkr1 2.412 0 GHz -3.465 dBm</p>
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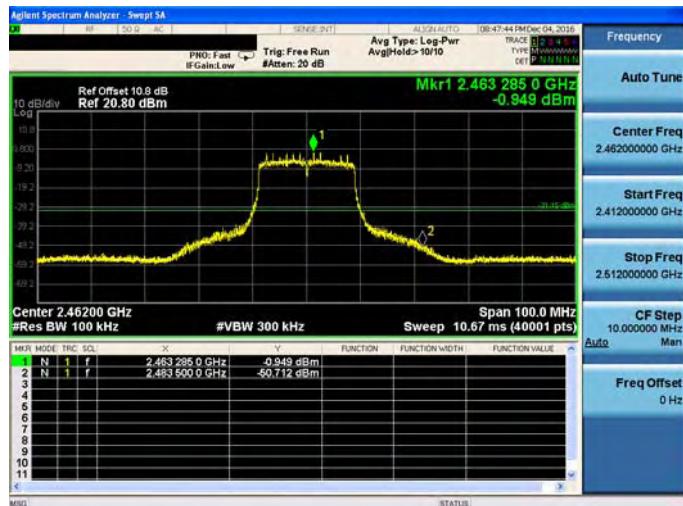
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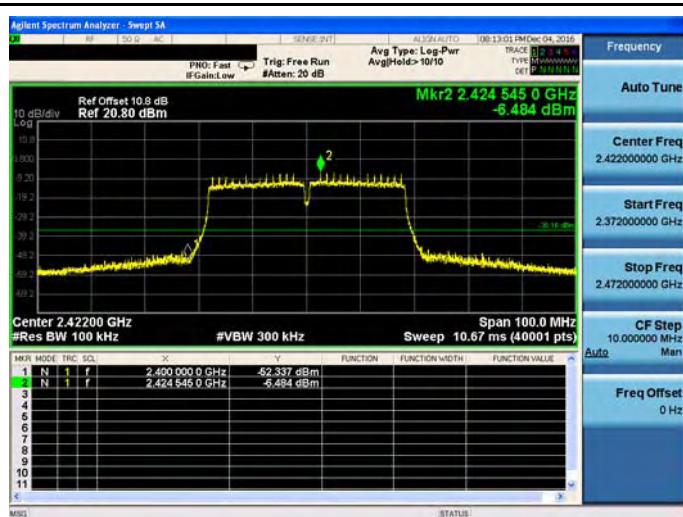
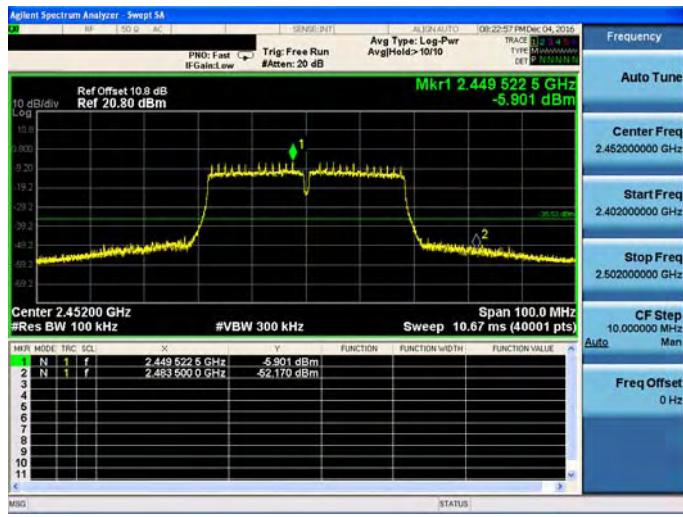
Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode
Antenna:	ANT-3
2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>Mkr1 2.422 0 GHz -14.850 dBm</p> <p>MSG: Alignment Completed STATUS:</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>Mkr1 2.437 0 GHz -10.940 dBm</p> <p>MSG: Alignment Completed STATUS:</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <p>Mkr1 2.452 0 GHz -10.813 dBm</p> <p>MSG: STATUS:</p>

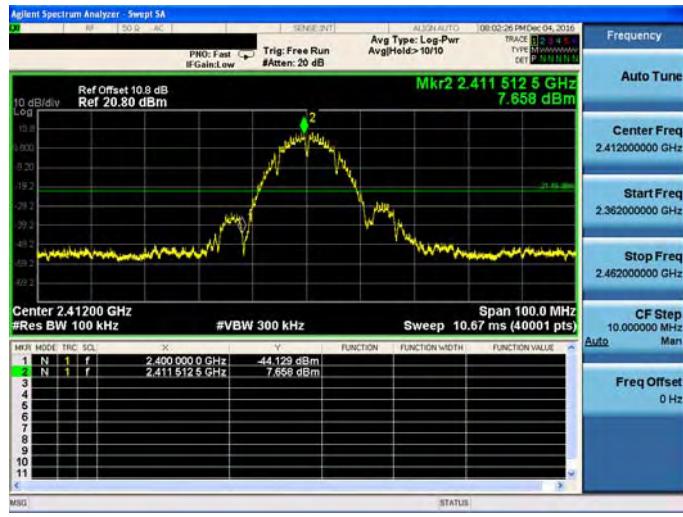
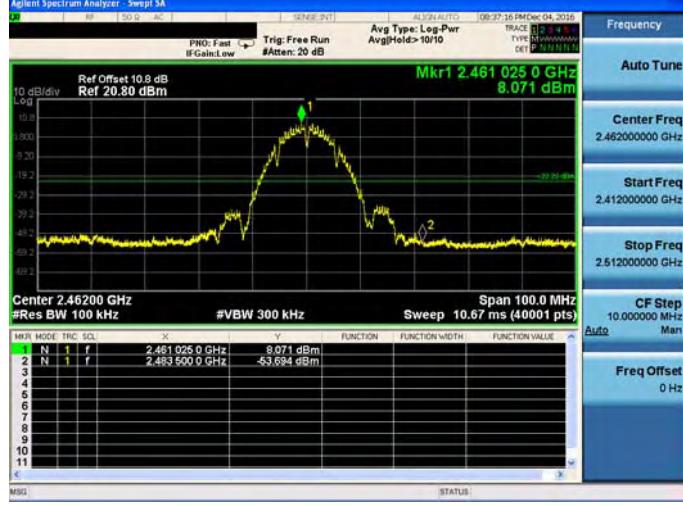
### Conducted Band Edge

Test Mode:	Mode 2: IEEE 802.11b link mode																																																													
Antenna:	ANT-0																																																													
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep1 SA</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Center 2.41200 GHz #VBW 300 kHz Span 100.0 MHz #Res BW 100 kHz Sweep 10.67 ms (40001 pts)</p> <table border="1"> <tr> <td>MRR MODE: TRC SCL: X</td> <td>Y</td> <td>FUNCTION</td> <td>FUNCTION WIDTH</td> <td>FUNCTION VALUE</td> </tr> <tr> <td>1 N 1 f</td> <td>2.400 000.0 GHz</td> <td>-40.441 dBm</td> <td></td> <td></td> </tr> <tr> <td>2 N 1 f</td> <td>2.413 025.0 GHz</td> <td>8.193 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	MRR MODE: TRC SCL: X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1 N 1 f	2.400 000.0 GHz	-40.441 dBm			2 N 1 f	2.413 025.0 GHz	8.193 dBm			3					4					5					6					7					8					9					10					11					Frequency Auto Tune  Center Freq 2.412000000 GHz  Start Freq 2.362000000 GHz  Stop Freq 2.462000000 GHz  CF Step 10.000000 MHz Man  Freq Offset 0 Hz
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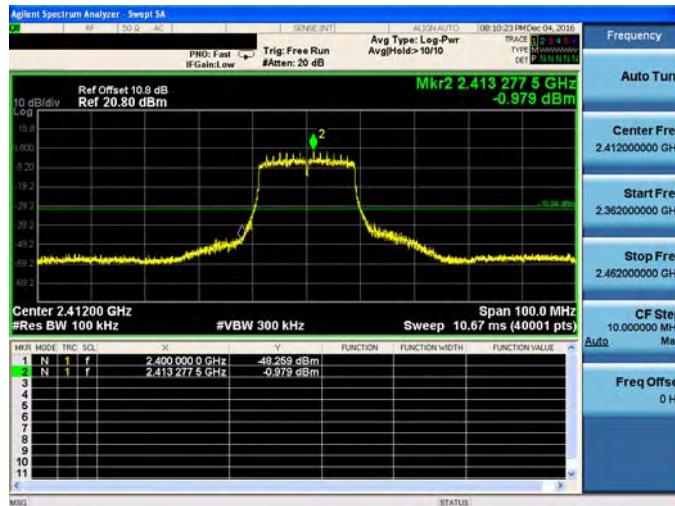
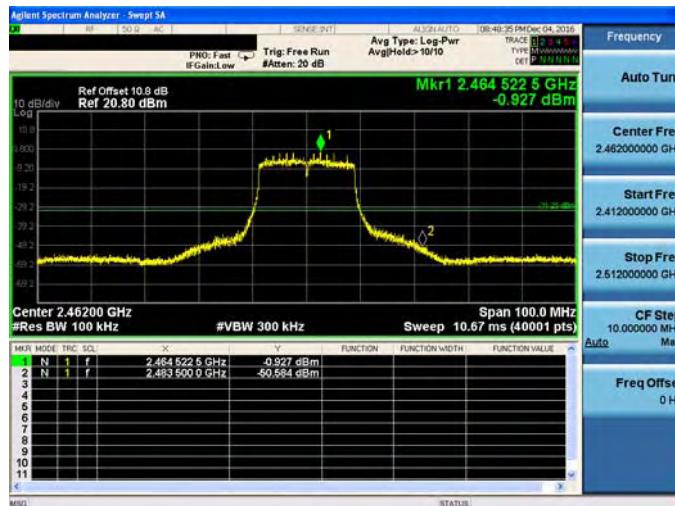
Test Mode:	Mode 3: IEEE 802.11g link mode																																																																																																												
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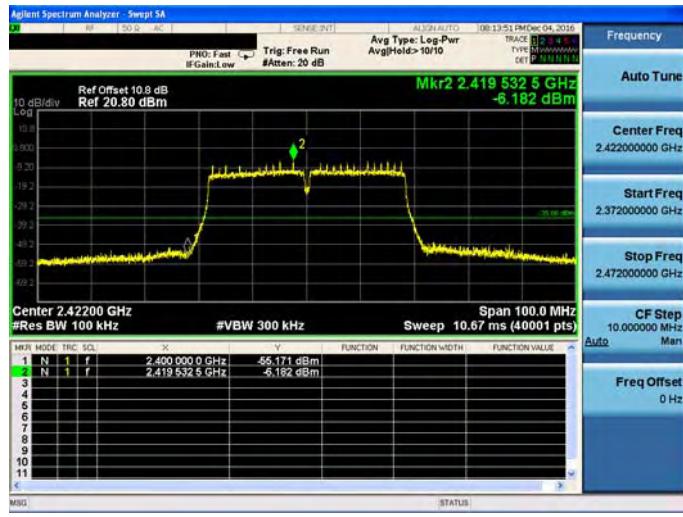
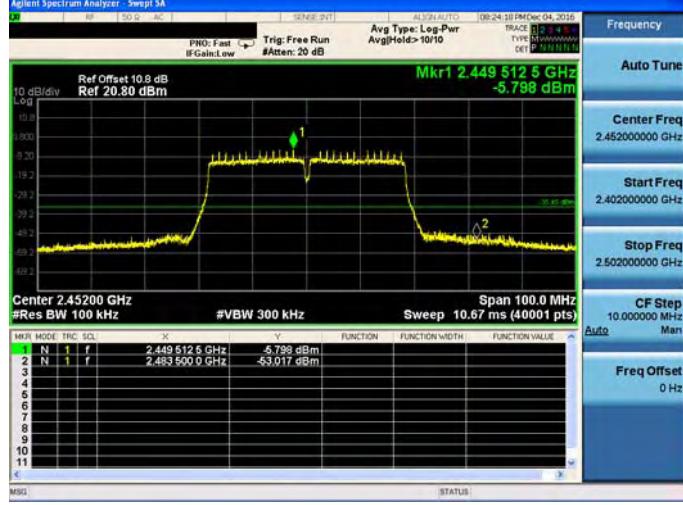
Test Mode:	Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode
Antenna:	ANT-0
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>PNO: Fast Trig: Free Run #Atten: 20 dB</p> <p>Avg Type: Log-Pwr AvgHold&gt; 10/10</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Mkr2 2.417 020 0 GHz -1.081 dBm</p> <p>10 dB/div Log</p> <p>10.0 9.800 9.600 9.400 9.200 9.000 8.800 8.600 8.400 8.200 8.000 7.800 7.600 7.400 7.200 7.000 6.800 6.600 6.400 6.200 6.000</p> <p>Center 2.41200 GHz #VBW 300 kHz Sweep 10.67 ms (40001 pts)</p> <p>Span 100.0 MHz</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Mkr2 2.417 020 0 GHz -1.081 dBm</p> <p>10 dB/div Log</p> <p>10.0 9.800 9.600 9.400 9.200 9.000 8.800 8.600 8.400 8.200 8.000 7.800 7.600 7.400 7.200 7.000 6.800 6.600 6.400 6.200 6.000</p> <p>Center 2.41200 GHz #VBW 300 kHz Sweep 10.67 ms (40001 pts)</p> <p>Span 100.0 MHz</p> <p>Auto Tune</p> <p>Center Freq 2.412000000 GHz</p> <p>Start Freq 2.362000000 GHz</p> <p>Stop Freq 2.462000000 GHz</p> <p>CF Step 10.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
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Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode																																																																																																												
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2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>PNO: Fast IfGain:Low Trig: Free Run #Atten: 20 dB</p> <p>Avg Type: Log-Pwr AvgHold&gt;10/10</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Mkr2 2.424 545 0 GHz -6.484 dBm</p> <p>10 dB/div Log</p> <p>18.0 19.0 19.2 19.4 19.6 19.8 20.0 20.2 20.4 20.6 20.8 21.0</p> <p>Center 2.42200 GHz #VBW 300 kHz Span 100.0 MHz</p> <p>#Res BW 100 kHz Sweep 10.67 ms (40001 pts)</p> <table border="1"> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.400 000 0 GHz</td> <td>-6.337 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.424 545 0 GHz</td> <td>-6.484 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>MSG STATUS</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.400 000 0 GHz	-6.337 dBm				2	N	1	f	2.424 545 0 GHz	-6.484 dBm				3									4									5									6									7									8									9									10									11								
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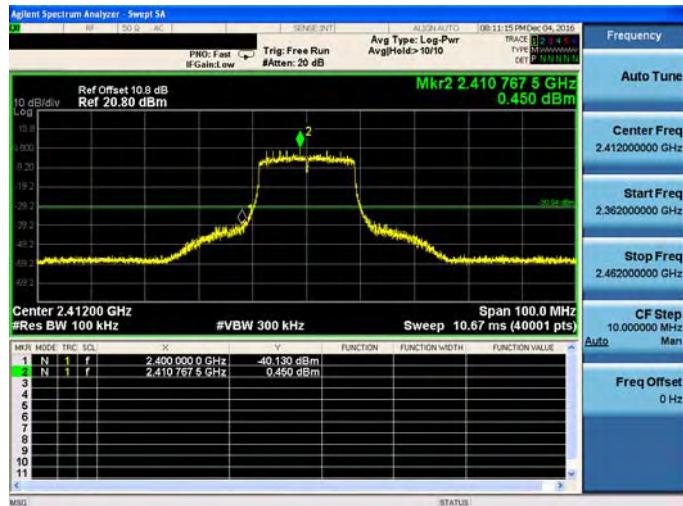
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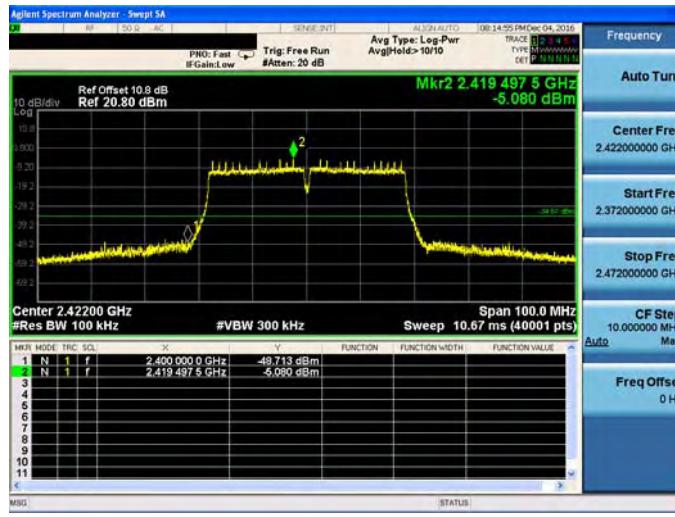
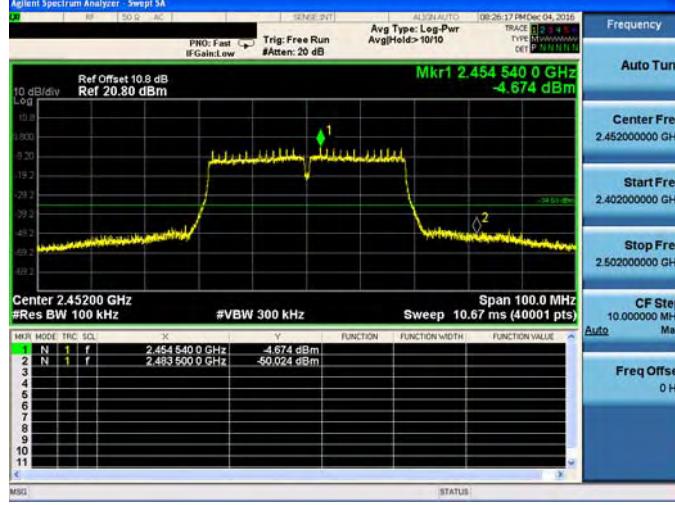
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Antenna:	ANT-1	
2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA      PNO: Fast IfGain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr AvgHold&gt; 10/10      Ref Offset 10.8 dB Ref 20.80 dBm Mkr2 2.413 277.5 GHz -0.979 dBm      10 dB/div Span 100.0 MHz Center 2.41200 GHz #VBW 300 kHz Sweep 10.67 ms (40001 pts)      Mkr. Mode TRC SCL X Y Function Function Width Function Value      1 N 1 f 2.400 000.0 GHz -48.259 dBm      2 N 1 f 2.413 277.5 GHz -0.979 dBm      3 4 5 6 7 8 9 10 11      MSG STATUS</p>	Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.362000000 GHz Stop Freq 2.462000000 GHz CF Step 10.000000 MHz Man Freq Offset 0 Hz
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA      PNO: Fast IfGain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr AvgHold&gt; 10/10      Ref Offset 10.8 dB Ref 20.80 dBm Mkr1 2.464 522.5 GHz -0.927 dBm      10 dB/div Span 100.0 MHz Center 2.46200 GHz #VBW 300 kHz Sweep 10.67 ms (40001 pts)      Mkr. Mode TRC SCL X Y Function Function Width Function Value      1 N 1 f 2.464 522.5 GHz -0.927 dBm      2 N 1 f 2.483 500.0 GHz -50.584 dBm      3 4 5 6 7 8 9 10 11      MSG STATUS</p>	Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.412000000 GHz Stop Freq 2.512000000 GHz CF Step 10.000000 MHz Man Freq Offset 0 Hz

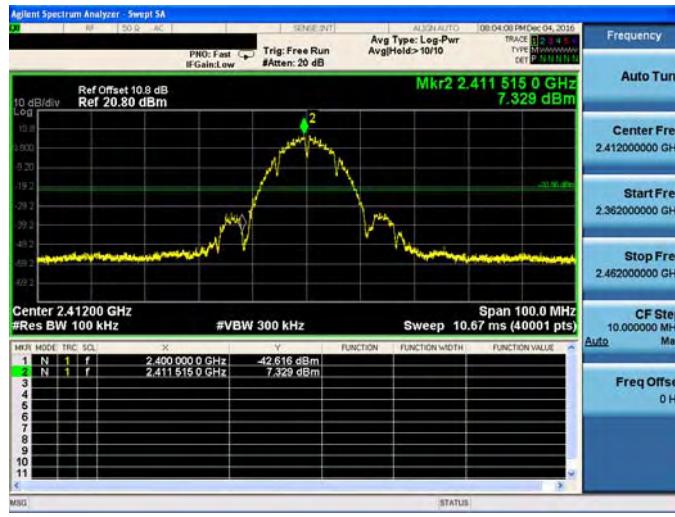
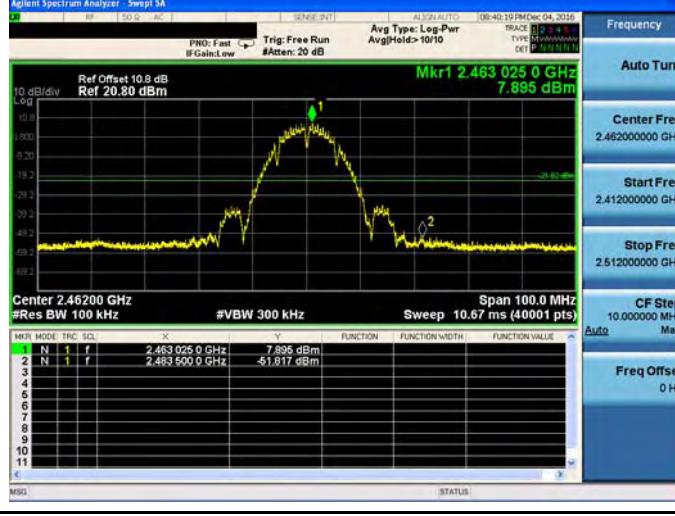
Test Mode:	Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode																																																																																																												
Antenna:	ANT-1																																																																																																												
2422 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>PNO: Fast IfGain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr AvgHold&gt; 10/10</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Mkr2 2.419 532 5 GHz -6.182 dBm</p> <p>10 dB/div Log</p> <p>19.0 19.2 19.4 19.6 19.8 19.9 20.0 20.2 20.4 20.6 20.8 21.0</p> <p>Center 2.42200 GHz #VBW 300 kHz Sweep 100.0 MHz Span 100.0 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10.67 ms (40001 pts)</p> <table border="1"> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.400 000 0 GHz</td> <td>-6.171 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.419 532 5 GHz</td> <td>-6.182 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>MSG STATUS</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.400 000 0 GHz	-6.171 dBm				2	N	1	f	2.419 532 5 GHz	-6.182 dBm				3									4									5									6									7									8									9									10									11								
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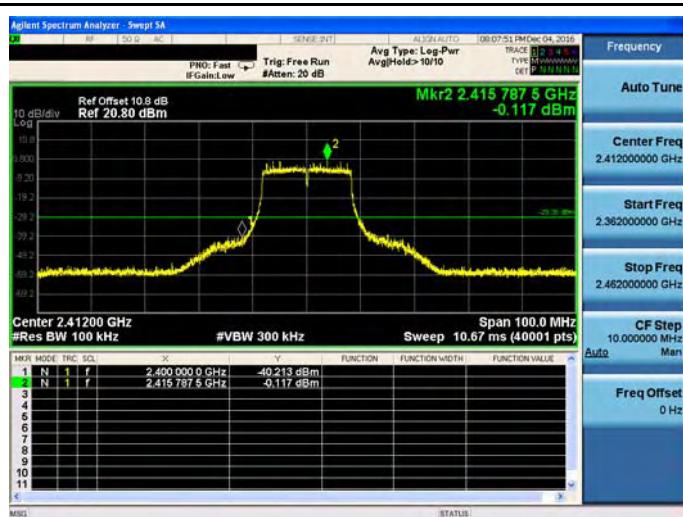
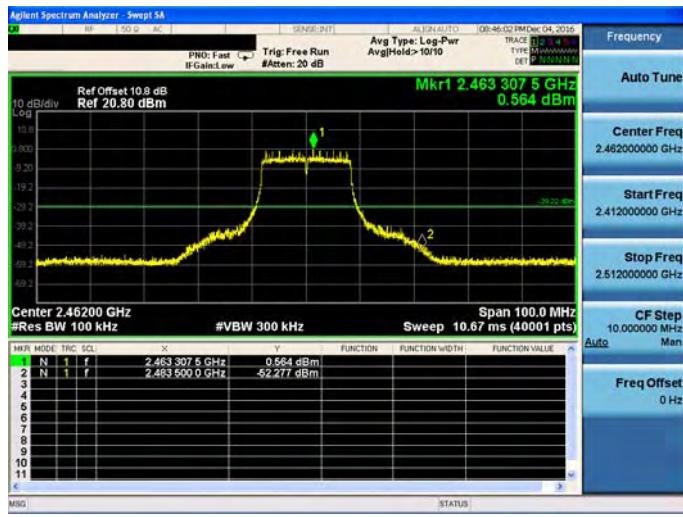
Test Mode:	Mode 2: IEEE 802.11b link mode																																																																																																												
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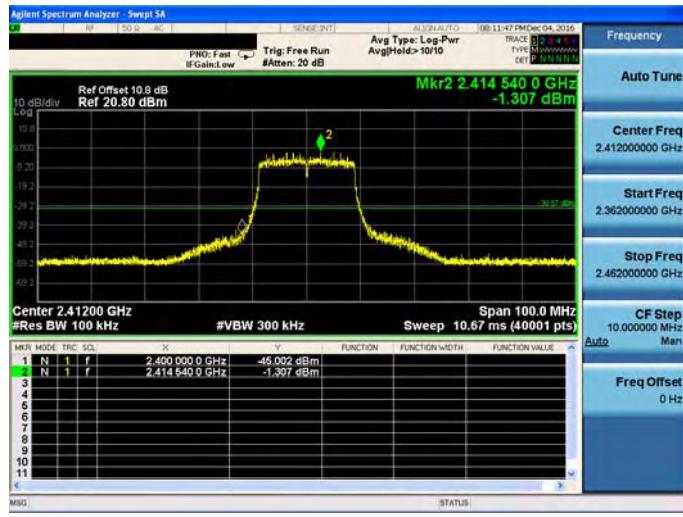
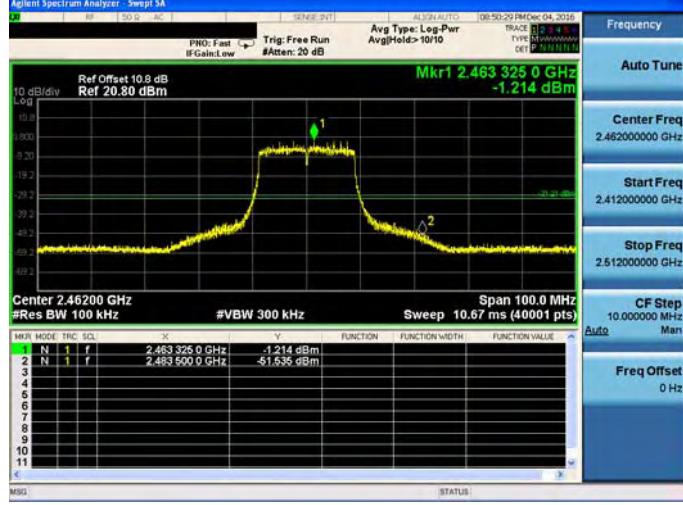
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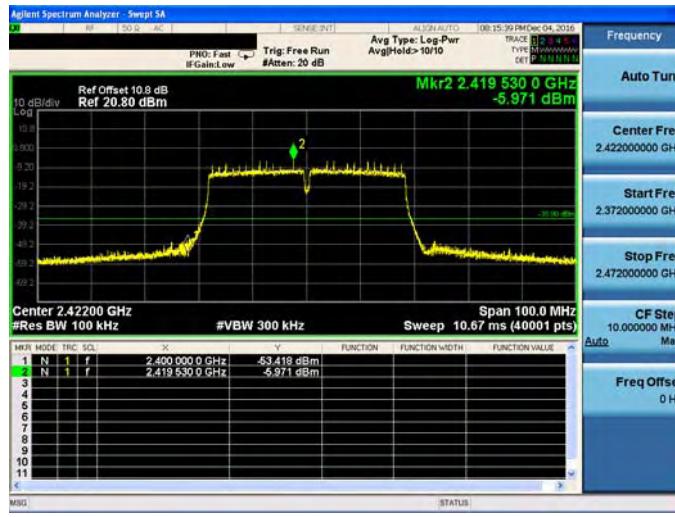
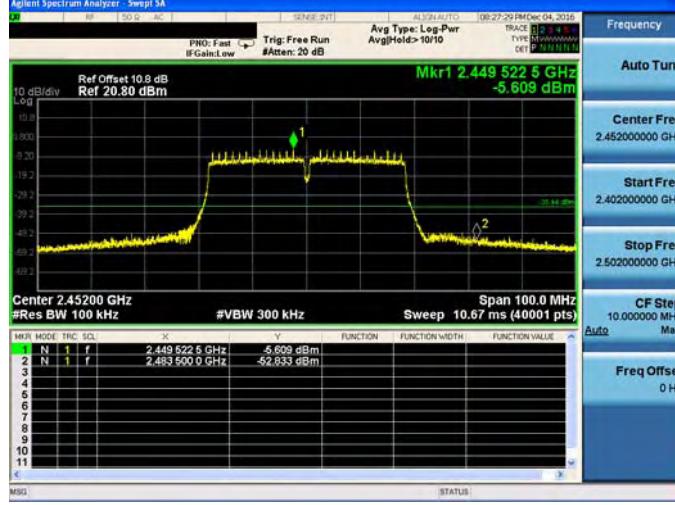
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2452 MHz	 <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr AvgHold&gt; 10/10</p> <p>Ref Offset 10.8 dB Ref 20.80 dBm</p> <p>Mkr1 2.449 522 5 GHz -5.609 dBm</p> <p>10 dB/div Log</p> <p>Center 2.45200 GHz #VBW 300 kHz Span 100.0 MHz Sweep 10.67 ms (40001 pts)</p> <table border="1"> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.449 522 5 GHz</td> <td>-5.609 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.483 500 0 GHz</td> <td>-52.833 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>MSG STATUS</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.449 522 5 GHz	-5.609 dBm				2	N	1	f	2.483 500 0 GHz	-52.833 dBm				3									4									5									6									7									8									9									10									11								
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## 10 Antenna Measurement

### ■ Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### ■ Antenna Description

See section 2 – antenna information.

### ■ Directional Gain Calculated

#### For Maximum Conducted Output Power

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / \text{NANT}\}$$

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11n 2.4GHz 20MHz	12.02
IEEE 802.11n 2.4GHz 40MHz	12.02

#### For Maximum Power Density

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / \text{NANT}\}$$

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b link mode	12.02
IEEE 802.11g link mode	12.02
IEEE 802.11n 2.4GHz 20MHz	12.02
IEEE 802.11n 2.4GHz 40MHz	12.02