

APPENDIX REPORT

Project No.	SHT2007069101EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20070691001	Model No.	7WC1
Start test date	2020/8/6	Finish date	2020/8/6
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

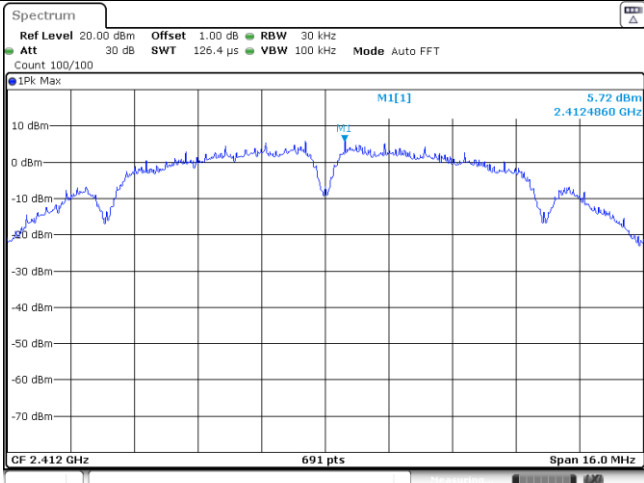
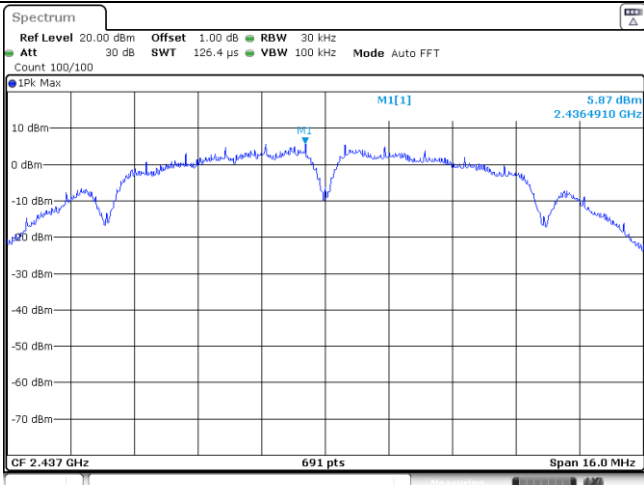
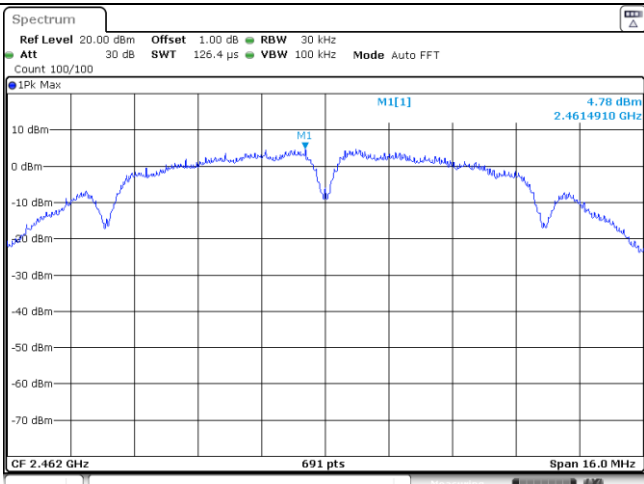
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

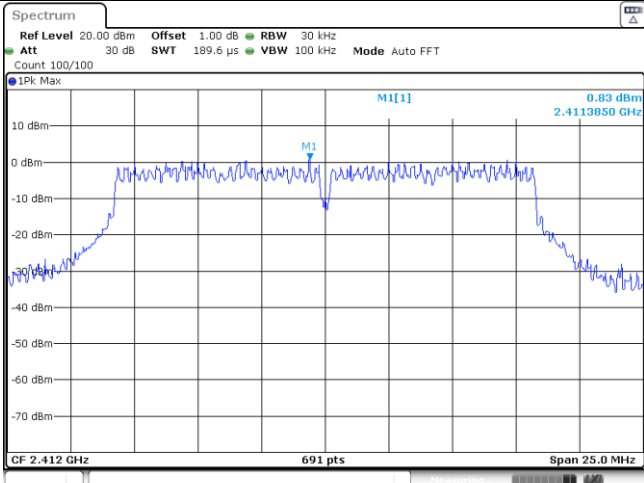
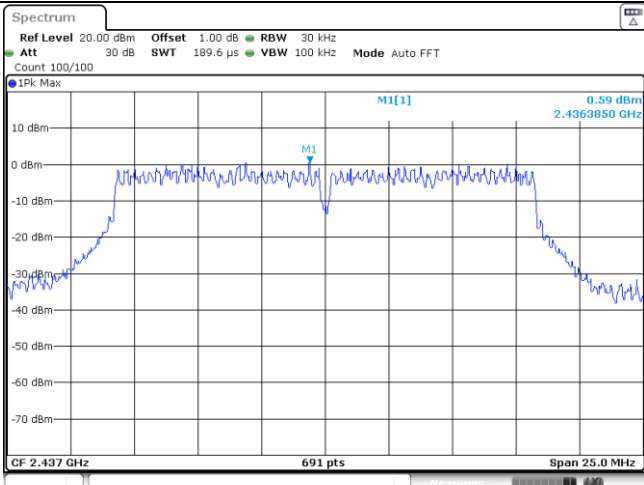
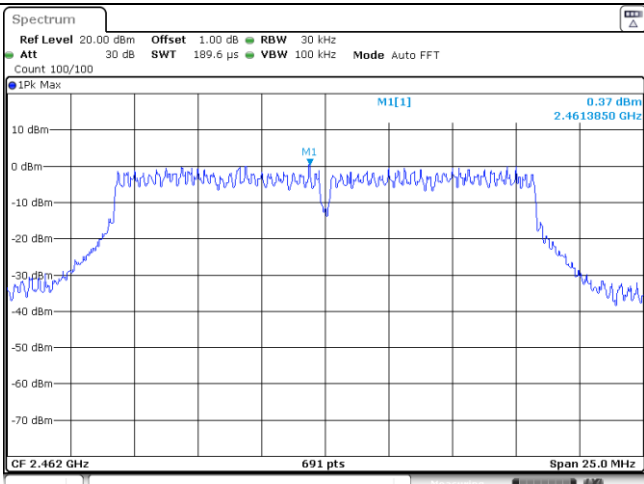
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	20.90	18.81	≤ 30.00	Pass
	06	20.89	18.77		
	11	21.01	18.86		
802.11g	01	25.06	20.64	≤ 30.00	Pass
	06	24.74	20.36		
	11	24.74	20.37		
802.11n (HT20)	01	24.85	20.39	≤ 30.00	Pass
	06	24.54	20.16		
	11	24.58	20.21		
802.11n(HT40)	03	24.77	20.38	≤ 30.00	Pass
	06	24.74	20.36		
	09	24.69	20.32		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	5.72	≤8.00	Pass
	06	5.87		
	11	4.78		
802.11g	01	0.83	≤8.00	Pass
	06	0.59		
	11	0.37		
802.11n(HT20)	01	0.47	≤8.00	Pass
	06	-0.05		
	11	-0.01		
802.11n(HT40)	03	-2.94	≤8.00	Pass
	06	-3.01		
	09	-2.91		

Type:		802.11 b
CH01	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>5.72 dBm 2.4124860 GHz</p> <p>CF 2.412 GHz 691 pts Span 16.0 MHz</p> <p>Date: 6 AUG 2020 10:39:28</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>5.87 dBm 2.4364910 GHz</p> <p>CF 2.437 GHz 691 pts Span 16.0 MHz</p> <p>Date: 6 AUG 2020 10:43:07</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>4.78 dBm 2.4614910 GHz</p> <p>CF 2.462 GHz 691 pts Span 16.0 MHz</p> <p>Date: 6 AUG 2020 10:58:11</p>	

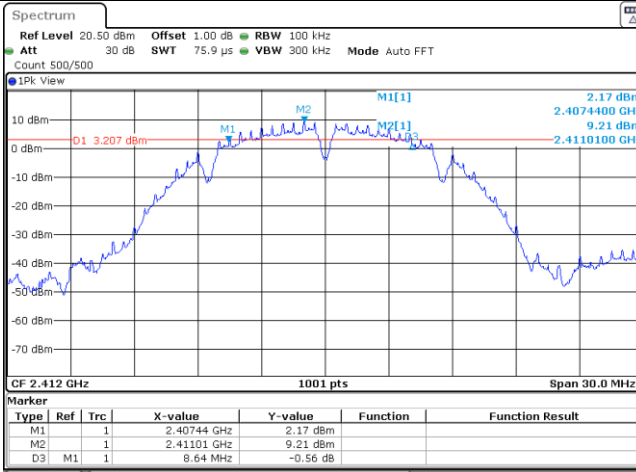
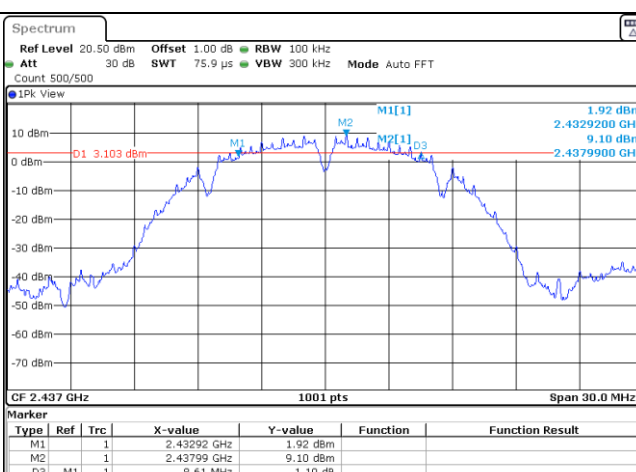
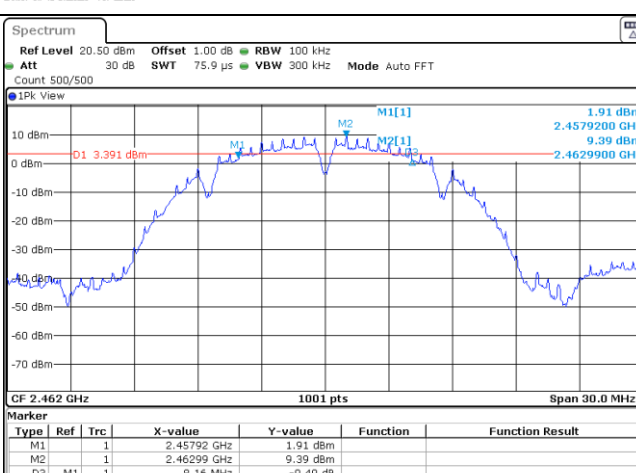
Type:		802.11 g
CH01	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 0.83 dBm 2.4113850 GHz</p> <p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6 AUG 2020 11:02:00</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 0.59 dBm 2.4363850 GHz</p> <p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6 AUG 2020 11:08:07</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 0.37 dBm 2.4613850 GHz</p> <p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6 AUG 2020 11:09:47</p>	

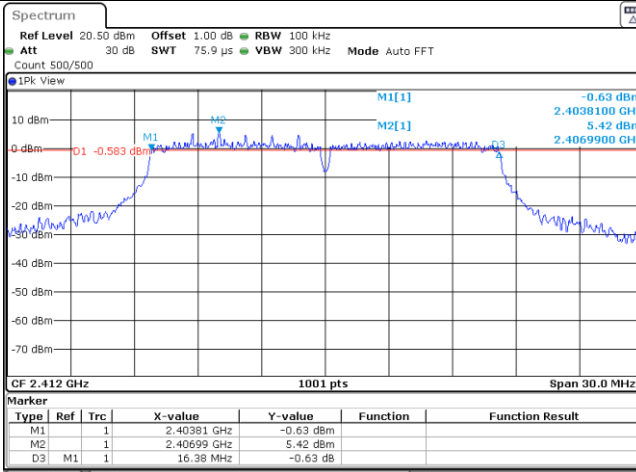
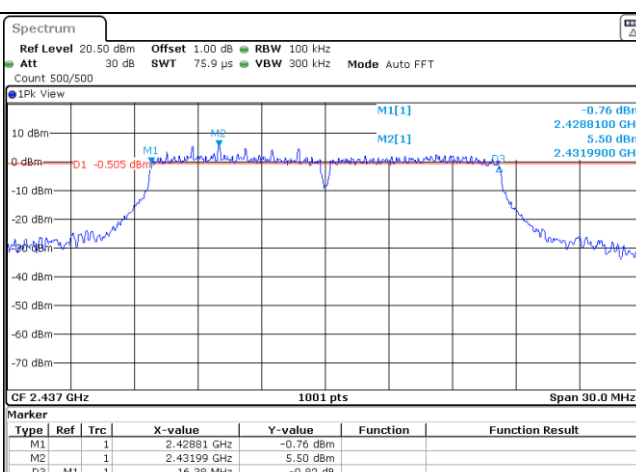
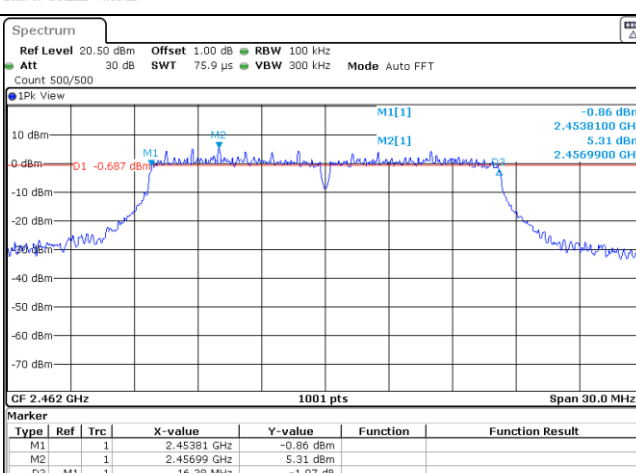
Type:		802.11n(HT20)
CH01	<p>0.47 dBm 2.4169930 GHz</p> <p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6 AUG 2020 11:13:23</p>	
CH06	<p>-0.05 dBm 2.4419930 GHz</p> <p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6 AUG 2020 11:17:32</p>	
CH11	<p>-0.01 dBm 2.4669930 GHz</p> <p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6 AUG 2020 11:19:53</p>	

Type:		802.11n(HT40)
CH03	<p>CF 2.422 GHz 691 pts Span 55.0 MHz</p> <p>Date: 6 AUG 2020 11:21:53</p>	
CH06	<p>CF 2.437 GHz 691 pts Span 55.0 MHz</p> <p>Date: 6 AUG 2020 11:24:47</p>	
CH09	<p>CF 2.452 GHz 691 pts Span 55.0 MHz</p> <p>Date: 6 AUG 2020 11:28:57</p>	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.64	≥0.5	Pass
	06	8.61		
	11	8.16		
802.11g	01	16.38	≥0.5	Pass
	06	16.38		
	11	16.38		
802.11n(HT20)	01	17.61	≥0.5	Pass
	06	17.67		
	11	17.79		
802.11n(HT40)	03	36.48	≥0.5	Pass
	06	36.48		
	09	36.48		

Type:	802.11 b																												
CH01	 <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40744 GHz</td> <td>-2.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41101 GHz</td> <td>9.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.64 MHz</td> <td>-0.56 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 10:39:03</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40744 GHz	-2.17 dBm			M2		1	2.41101 GHz	9.21 dBm			D3	M1	1	8.64 MHz	-0.56 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40744 GHz	-2.17 dBm																									
M2		1	2.41101 GHz	9.21 dBm																									
D3	M1	1	8.64 MHz	-0.56 dB																									
CH06	 <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.43292 GHz</td> <td>-1.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43799 GHz</td> <td>9.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.61 MHz</td> <td>1.10 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 10:42:28</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43292 GHz	-1.92 dBm			M2		1	2.43799 GHz	9.10 dBm			D3	M1	1	8.61 MHz	1.10 dB		
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
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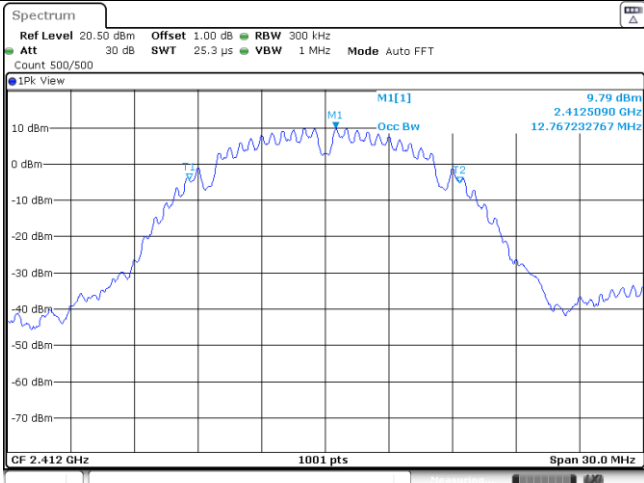
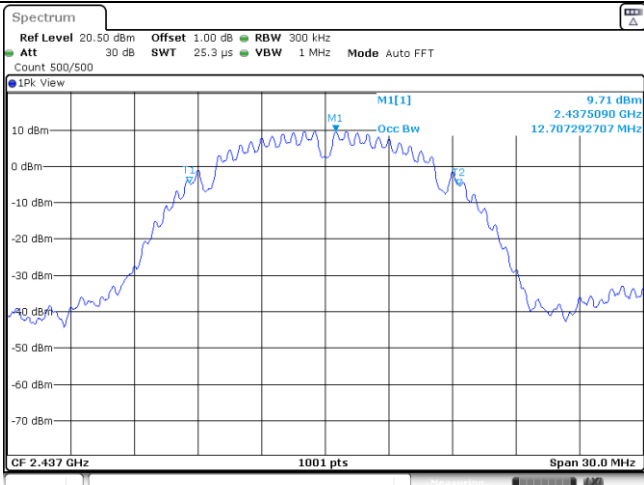
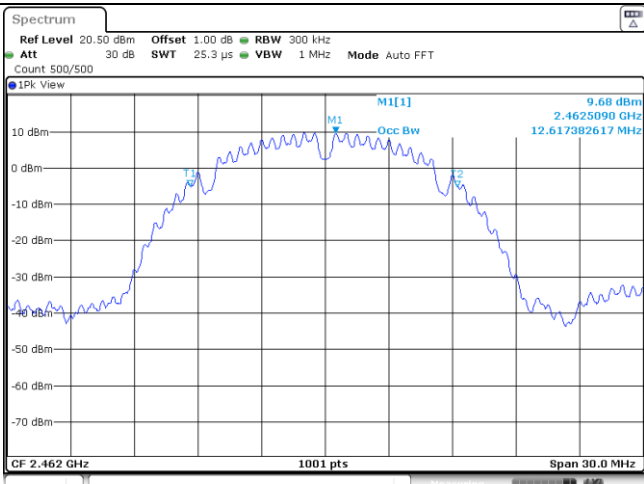
Type:	802.11 g																												
CH01	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40381 GHz</td> <td>-0.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.40699 GHz</td> <td>5.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.38 MHz</td> <td>-0.63 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2020 11:03:13</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40381 GHz	-0.63 dBm			M2		1	2.40699 GHz	5.42 dBm			D3	M1	1	16.38 MHz	-0.63 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40381 GHz	-0.63 dBm																									
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CH11	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45381 GHz</td> <td>-0.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.45699 GHz</td> <td>5.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.38 MHz</td> <td>-1.07 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2020 11:09:11</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45381 GHz	-0.86 dBm			M2		1	2.45699 GHz	5.31 dBm			D3	M1	1	16.38 MHz	-1.07 dB		
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Type:	802.11n(HT20)																												
CH01	<p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40318 GHz</td> <td>-2.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41698 GHz</td> <td>5.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.61 MHz</td> <td>1.20 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2020 11:12:24</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40318 GHz	-2.37 dBm			M2		1	2.41698 GHz	5.01 dBm			D3	M1	1	17.61 MHz	1.20 dB		
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
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D3	M1	1	17.79 MHz	1.37 dB																									

Type:	802.11n(HT40)																												
CH03	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -6.00 dBm 2.4037600 GHz M2[1] 1.91 dBm 2.4269800 GHz</p> <p>D1 -4.090 dBm</p> <p>CF 2.422 GHz 1001 pts Span 60.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40375 GHz</td> <td>-6.00 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.42698 GHz</td> <td>1.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>36.48 MHz</td> <td>-0.60 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 11:21:14</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40375 GHz	-6.00 dBm			M2		1	2.42698 GHz	1.91 dBm			D3	M1	1	36.48 MHz	-0.60 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40375 GHz	-6.00 dBm																									
M2		1	2.42698 GHz	1.91 dBm																									
D3	M1	1	36.48 MHz	-0.60 dB																									
CH06	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -5.82 dBm 2.4187600 GHz M2[1] 2.07 dBm 2.4207400 GHz</p> <p>D1 -3.993 dBm</p> <p>CF 2.437 GHz 1001 pts Span 60.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.41875 GHz</td> <td>-5.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.42074 GHz</td> <td>2.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>36.48 MHz</td> <td>-1.02 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 11:23:29</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41875 GHz	-5.82 dBm			M2		1	2.42074 GHz	2.07 dBm			D3	M1	1	36.48 MHz	-1.02 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.41875 GHz	-5.82 dBm																									
M2		1	2.42074 GHz	2.07 dBm																									
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CH09	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -5.50 dBm 2.4337600 GHz M2[1] 0.85 dBm 2.4670000 GHz</p> <p>D1 -5.150 dBm</p> <p>CF 2.452 GHz 1001 pts Span 60.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.43375 GHz</td> <td>-5.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.467 GHz</td> <td>0.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>36.48 MHz</td> <td>-1.58 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 11:28:37</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43375 GHz	-5.50 dBm			M2		1	2.467 GHz	0.85 dBm			D3	M1	1	36.48 MHz	-1.58 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43375 GHz	-5.50 dBm																									
M2		1	2.467 GHz	0.85 dBm																									
D3	M1	1	36.48 MHz	-1.58 dB																									

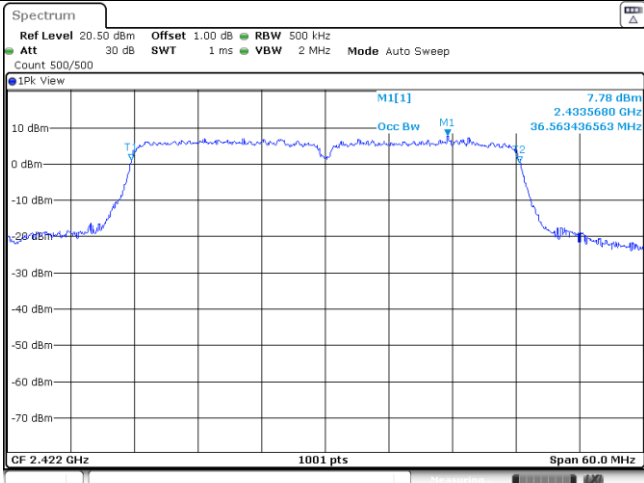
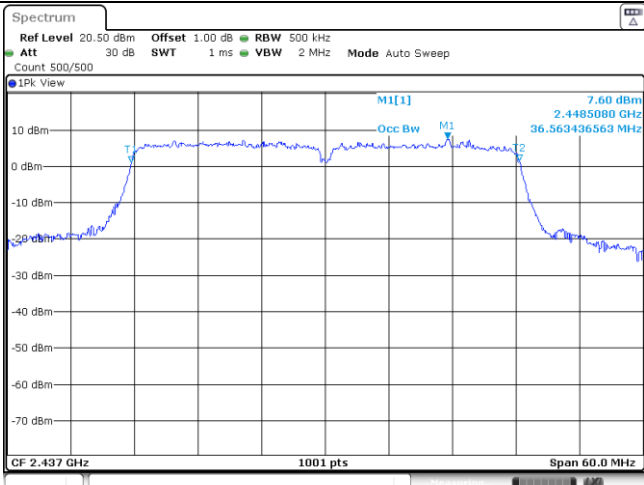
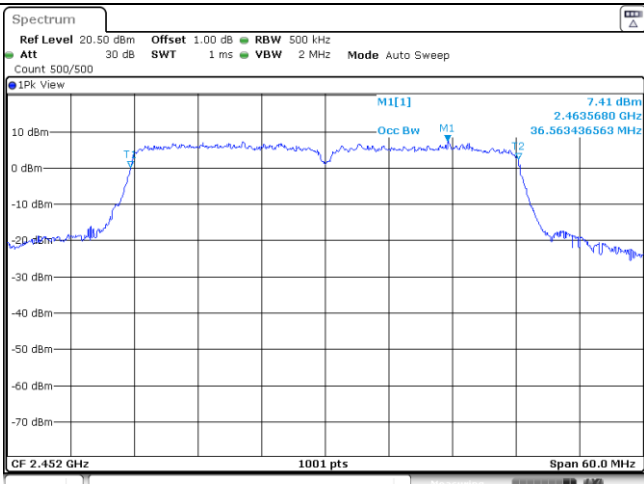
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.77	-	Pass
	06	12.71		
	11	12.62		
802.11g	01	17.05	-	Pass
	06	17.02		
	11	16.93		
802.11n(HT20)	01	17.83	-	Pass
	06	17.80		
	11	17.83		
802.11n(HT40)	03	36.56	-	Pass
	06	36.56		
	09	36.56		

Type:		802.11 b
CH01	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>9.79 dBm 2.4125090 GHz 12.767232767 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 6 AUG 2010 10:39:16</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>9.71 dBm 2.4375090 GHz 12.707292707 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 6 AUG 2010 10:42:36</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>9.68 dBm 2.4625090 GHz 12.617382617 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 6 AUG 2010 10:57:38</p>	

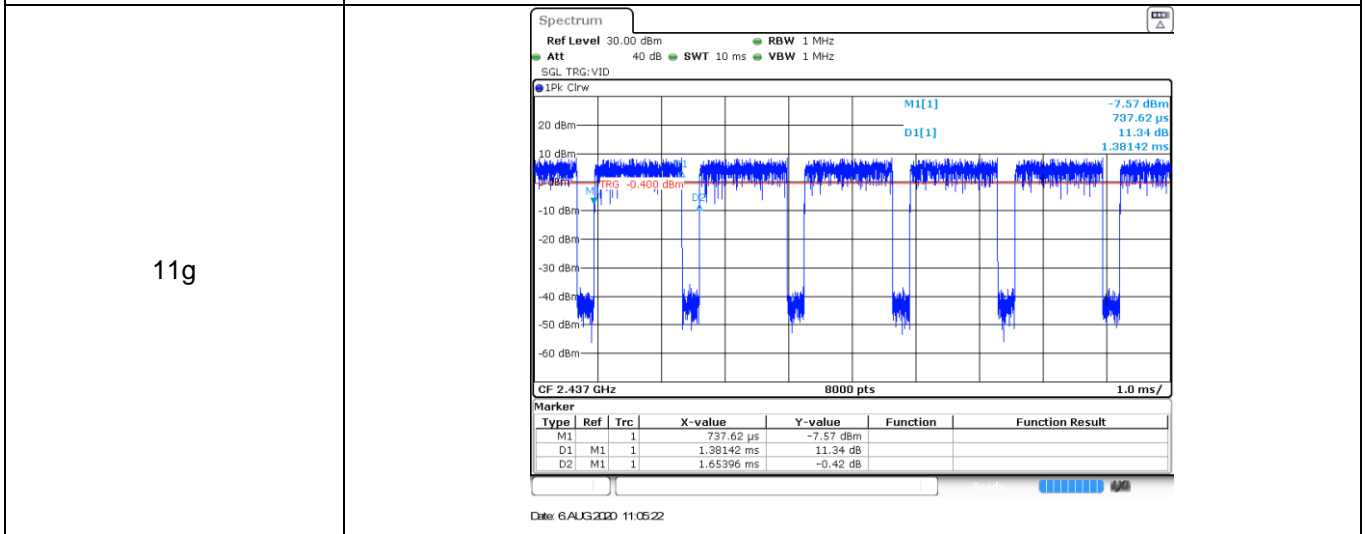
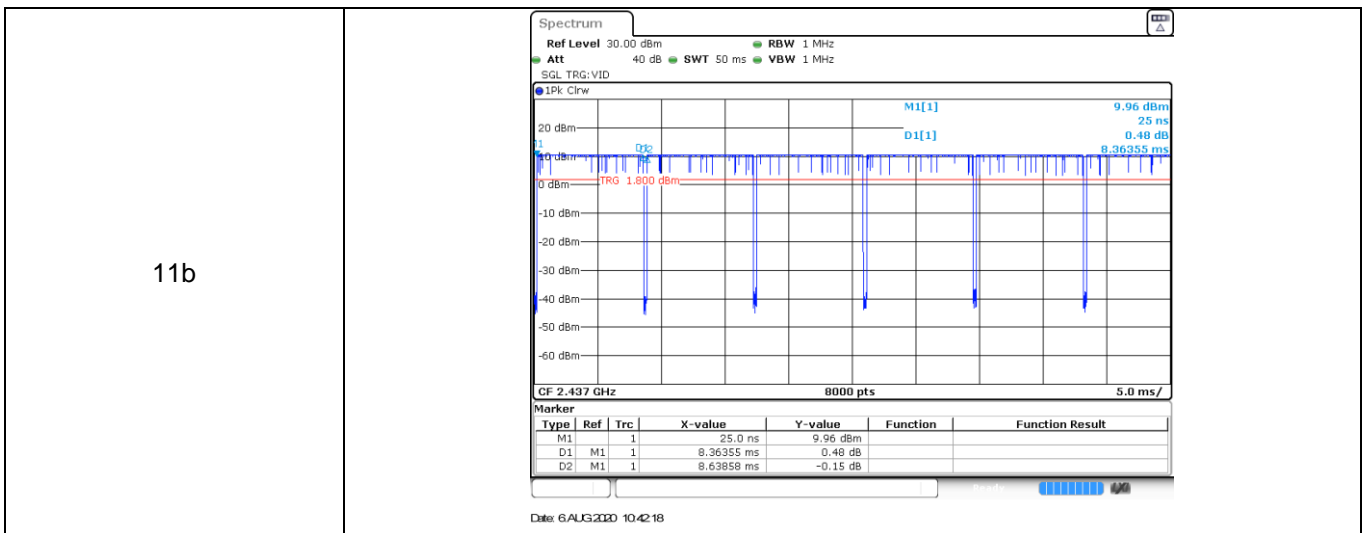
Type:		802.11 g
CH01		<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 1PK View M1[1] 7.75 dBm 2.4172450 GHz Occ Bw M1 17.052947053 MHz CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 6 AUG 2020 11:03:22</p>
CH06		<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 1PK View M1[1] 7.80 dBm 2.4322350 GHz Occ Bw M1 17.022977023 MHz CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 6 AUG 2020 11:05:40</p>
CH11		<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 1PK View M1[1] 7.33 dBm 2.4667650 GHz Occ Bw M1 16.933066933 MHz CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 6 AUG 2020 11:09:20</p>

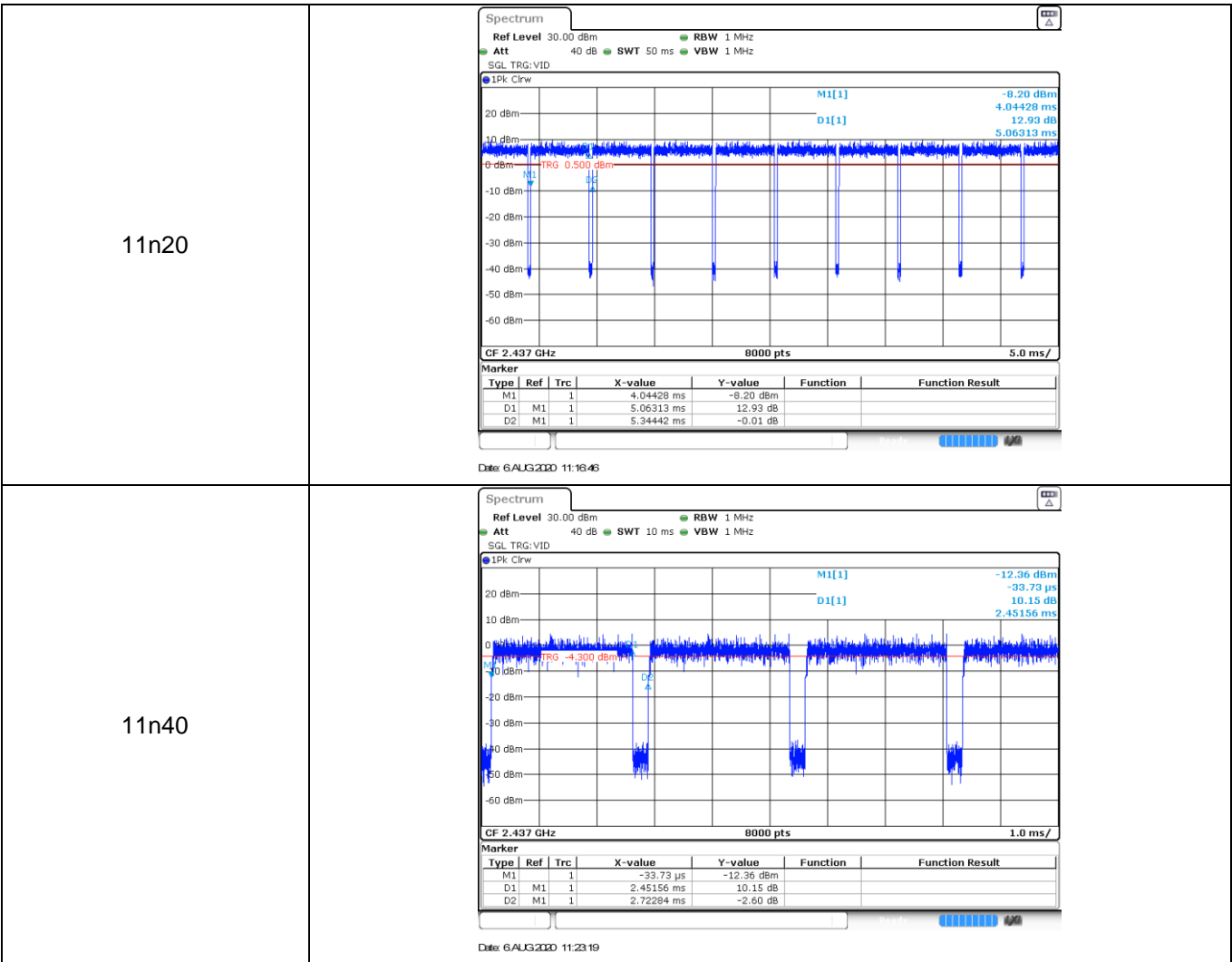
Type:		802.11n(HT20)
CH01		<p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 6 AUG 2020 11:12:33</p>
CH06		<p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 6 AUG 2020 11:17:04</p>
CH11		<p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 6 AUG 2020 11:19:26</p>

Type:		802.11n(HT40)
CH03	 <p>Spectrum plot for CH03. The plot shows a signal centered at 2.4335680 GHz with a peak level of 7.78 dBm. The plot includes parameters: Ref Level 20.50 dBm, Att 30 dB, Offset 1.00 dB, RBW 500 kHz, Mode Auto Sweep, Count 500/500, Span 60.0 MHz, CF 2.422 GHz, 1001 pts. The plot also shows Occ Bw and M1 markers.</p>	
CH06	 <p>Spectrum plot for CH06. The plot shows a signal centered at 2.4485080 GHz with a peak level of 7.60 dBm. The plot includes parameters: Ref Level 20.50 dBm, Att 30 dB, Offset 1.00 dB, RBW 500 kHz, Mode Auto Sweep, Count 500/500, Span 60.0 MHz, CF 2.437 GHz, 1001 pts. The plot also shows Occ Bw and M1 markers.</p>	
CH09	 <p>Spectrum plot for CH09. The plot shows a signal centered at 2.4635680 GHz with a peak level of 7.41 dBm. The plot includes parameters: Ref Level 20.50 dBm, Att 30 dB, Offset 1.00 dB, RBW 500 kHz, Mode Auto Sweep, Count 500/500, Span 60.0 MHz, CF 2.452 GHz, 1001 pts. The plot also shows Occ Bw and M1 markers.</p>	

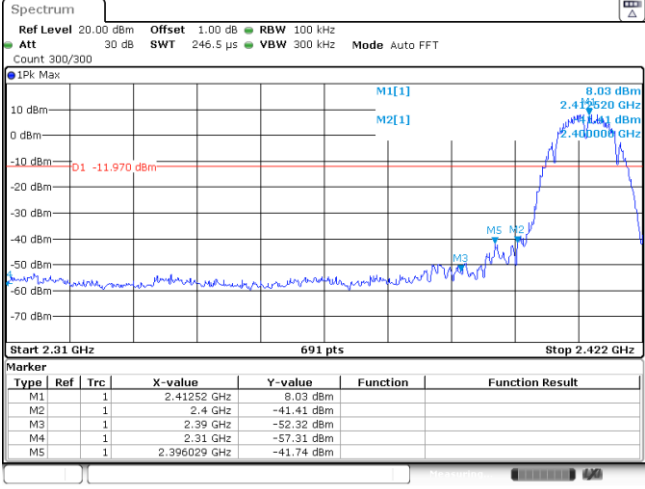

Appendix E: Duty Cycle


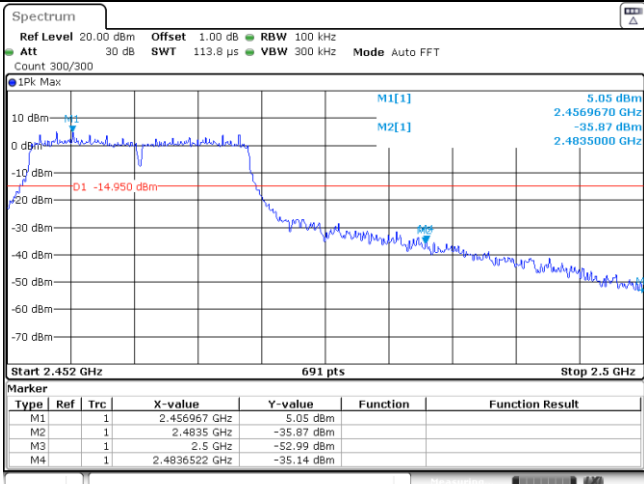
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.36	8.64	96.8%	0.1
11g	2437	1.38	1.65	83.6%	0.7
11n20	2437	5.06	5.34	94.8%	0.2
11n40	2437	2.45	2.72	90.1%	0.4

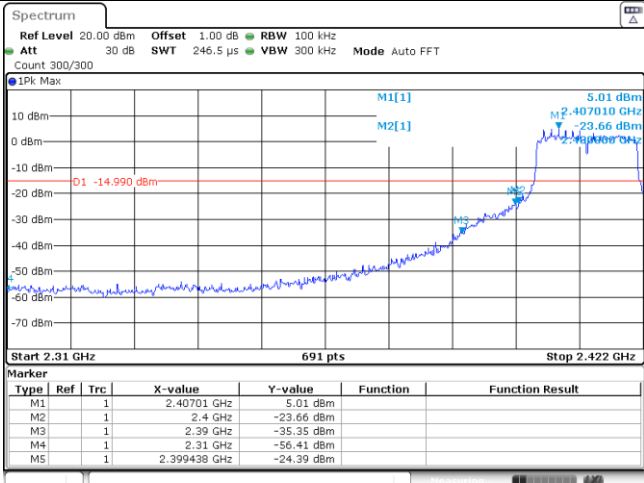
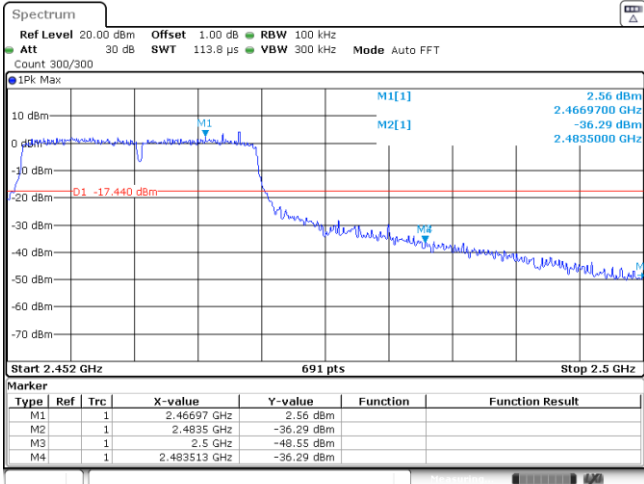


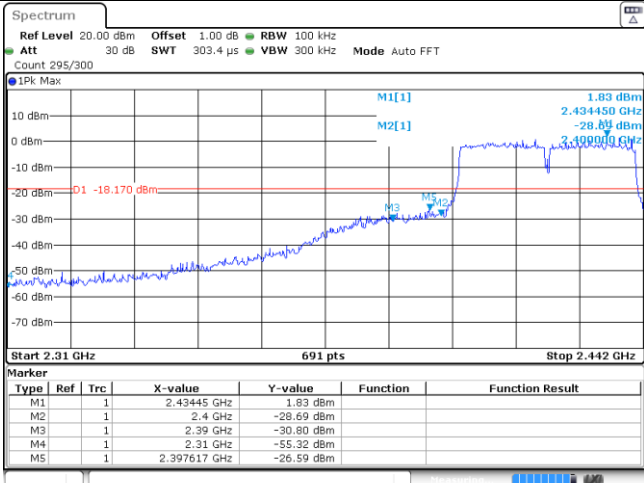


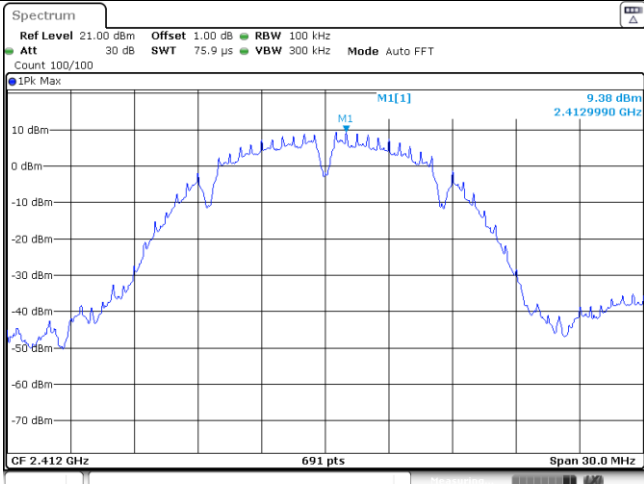
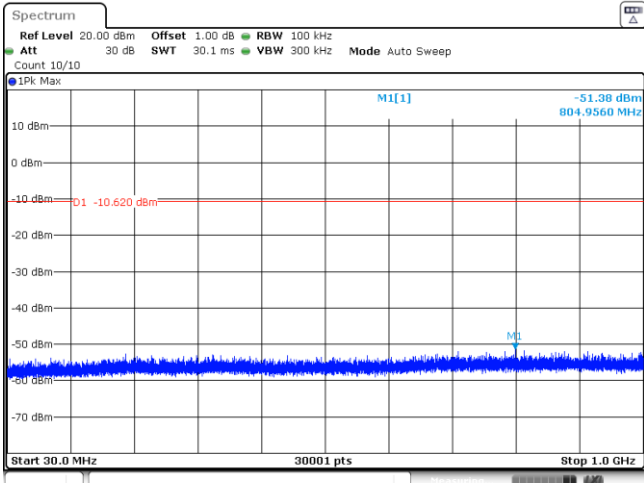
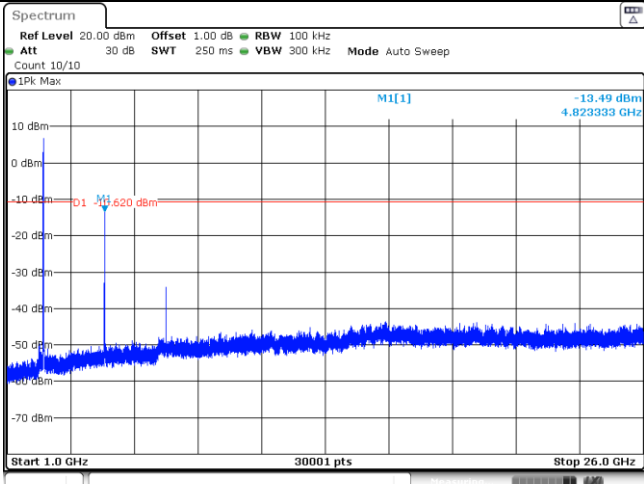
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p>Marker Table for CH01:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41252 GHz</td> <td>8.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-41.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-52.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-57.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.396029 GHz</td> <td>-41.74 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 10:39:38</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41252 GHz	8.03 dBm			M2	1		2.4 GHz	-41.41 dBm			M3	1		2.39 GHz	-52.32 dBm			M4	1		2.31 GHz	-57.31 dBm			M5	1		2.396029 GHz	-41.74 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41252 GHz	8.03 dBm																																									
M2	1		2.4 GHz	-41.41 dBm																																									
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M4	1		2.31 GHz	-57.31 dBm																																									
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CH11	 <p>Marker Table for CH11:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.460996 GHz</td> <td>9.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-49.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-55.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4869913 GHz</td> <td>-46.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 10:39:21</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.460996 GHz	9.45 dBm			M2	1		2.4835 GHz	-49.88 dBm			M3	1		2.5 GHz	-55.52 dBm			M4	1		2.4869913 GHz	-46.59 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.460996 GHz	9.45 dBm																																									
M2	1		2.4835 GHz	-49.88 dBm																																									
M3	1		2.5 GHz	-55.52 dBm																																									
M4	1		2.4869913 GHz	-46.59 dBm																																									

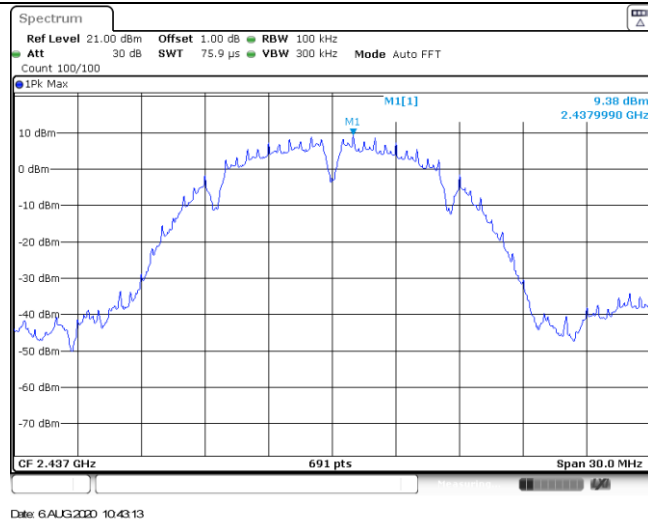
Test Item:	Bandedge	Type:	802.11 g																																										
CH01	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>1PK Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 5.83 dBm M2[1] 2.407010 GHz M3[1] 2.4 GHz M4[1] 2.39 GHz M5[1] 2.31 GHz</p> <p>D1 -14.170 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40701 GHz</td> <td>-5.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-22.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-36.51 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-56.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399925 GHz</td> <td>-23.84 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2020 11:02:10</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40701 GHz	-5.83 dBm			M2	1	1	2.4 GHz	-22.91 dBm			M3	1	1	2.39 GHz	-36.51 dBm			M4	1	1	2.31 GHz	-56.66 dBm			M5	1	1	2.399925 GHz	-23.84 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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M4	1	1	2.31 GHz	-56.66 dBm																																									
M5	1	1	2.399925 GHz	-23.84 dBm																																									
CH11	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>1PK Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 5.05 dBm M2[1] 2.4569670 GHz M3[1] 2.4835000 GHz M4[1] 2.4835000 GHz</p> <p>D1 -14.950 dBm</p> <p>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.456967 GHz</td> <td>-5.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4835 GHz</td> <td>-35.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.5 GHz</td> <td>-52.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.4836522 GHz</td> <td>-35.14 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2020 11:02:58</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.456967 GHz	-5.05 dBm			M2	1	1	2.4835 GHz	-35.87 dBm			M3	1	1	2.5 GHz	-52.99 dBm			M4	1	1	2.4836522 GHz	-35.14 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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M2	1	1	2.4835 GHz	-35.87 dBm																																									
M3	1	1	2.5 GHz	-52.99 dBm																																									
M4	1	1	2.4836522 GHz	-35.14 dBm																																									

Test Item:	Bandedge	Type:	802.11 n(HT20)																																																
CH01		 <p> Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 Start 2.31 GHz 691 pts Stop 2.422 GHz Date: 6 AUG 2020 11:38:54 </p> <table border="1" data-bbox="686 593 1332 694"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.40701 GHz</td> <td>-5.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-23.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-35.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-56.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.399438 GHz</td> <td>-24.39 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40701 GHz	-5.01 dBm			M2	1			2.4 GHz	-23.66 dBm			M3	1			2.39 GHz	-35.35 dBm			M4	1			2.31 GHz	-56.41 dBm			M5	1			2.399438 GHz	-24.39 dBm			<p>802.11 n(HT20)</p>
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M5	1			2.399438 GHz	-24.39 dBm																																														
CH11		 <p> Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 Start 2.452 GHz 691 pts Stop 2.5 GHz Date: 6 AUG 2020 11:20:03 </p> <table border="1" data-bbox="686 1124 1332 1225"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.46697 GHz</td> <td>-2.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-36.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-48.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.483513 GHz</td> <td>-36.29 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.46697 GHz	-2.56 dBm			M2	1			2.4835 GHz	-36.29 dBm			M3	1			2.5 GHz	-48.55 dBm			M4	1			2.483513 GHz	-36.29 dBm			<p>802.11 n(HT20)</p>								
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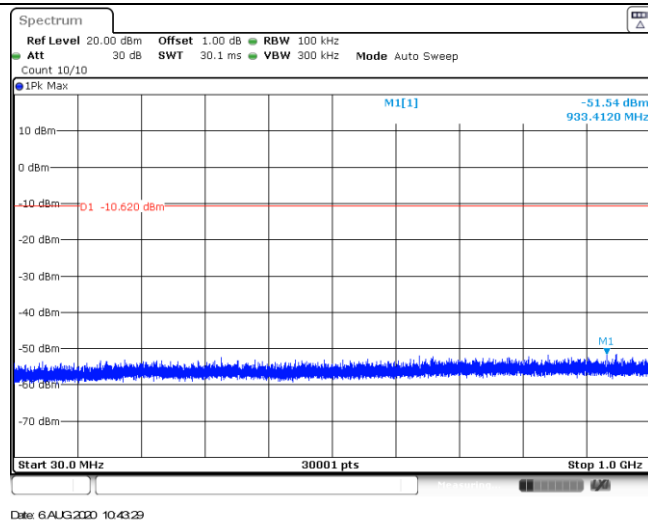
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 303.4 μs VBW 300 kHz Mode Auto FFT Count 295/300</p> <p>Start 2.31 GHz 691 pts Stop 2.442 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.43445 GHz</td> <td>-1.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-28.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-30.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.397617 GHz</td> <td>-26.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 11:22:03</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.43445 GHz	-1.83 dBm			M2	1		2.4 GHz	-28.69 dBm			M3	1		2.39 GHz	-30.80 dBm			M4	1		2.31 GHz	-55.32 dBm			M5	1		2.397617 GHz	-26.59 dBm		
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M4	1		2.31 GHz	-55.32 dBm																																									
M5	1		2.397617 GHz	-26.59 dBm																																									
CH09	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>Start 2.432 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.435789 GHz</td> <td>2.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-33.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-40.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4845275 GHz</td> <td>-31.21 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6 AUG 2010 11:27:07</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.435789 GHz	2.08 dBm			M2	1		2.4835 GHz	-33.31 dBm			M3	1		2.5 GHz	-40.90 dBm			M4	1		2.4845275 GHz	-31.21 dBm									
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M3	1		2.5 GHz	-40.90 dBm																																									
M4	1		2.4845275 GHz	-31.21 dBm																																									

Test Item:	SE	Type:	802.11b
<p>CH01 Reference level</p>		 <p>CF 2.412 GHz 691 pts Span 30.0 MHz</p> <p>Date: 6.AUG.2020 11:37:35</p>	
<p>CH01 30MHz~1000MHz</p>		 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 6.AUG.2020 11:37:51</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 6.AUG.2020 11:38:07</p>	

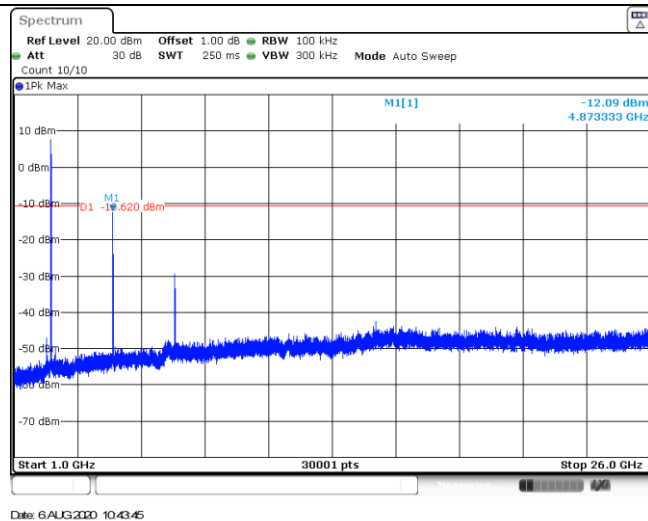
CH06
Reference level



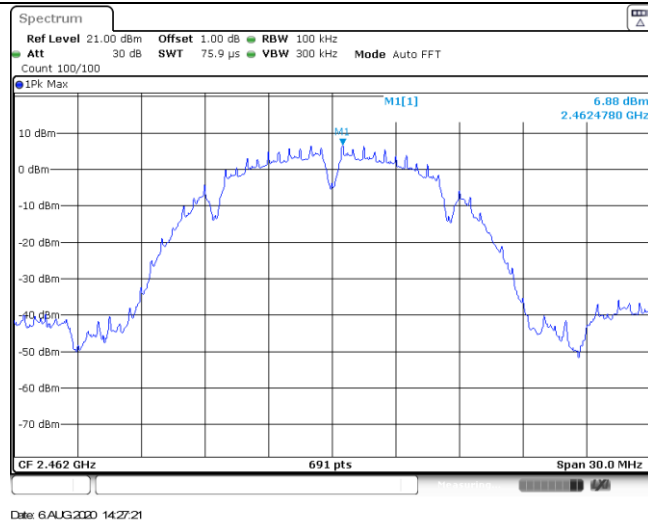
CH06
30MHz~1000MHz



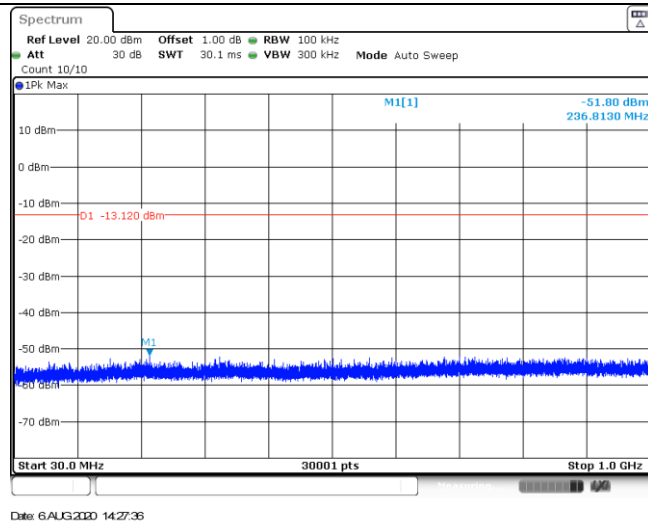
CH06
1GHz~26GHz



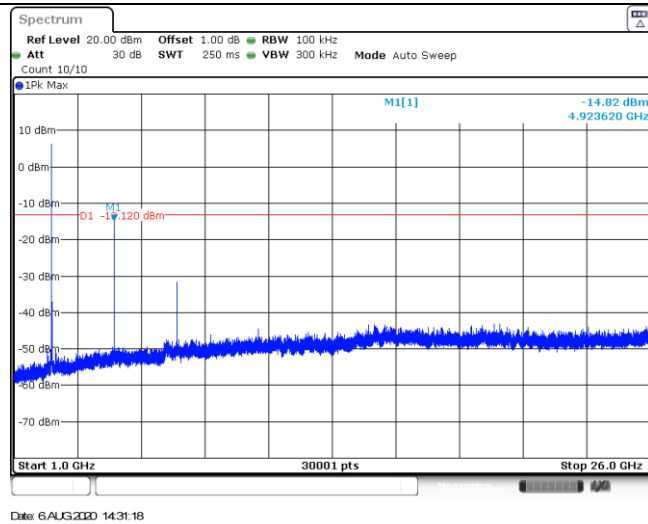
CH11
Reference level



CH11
30MHz~1000MHz



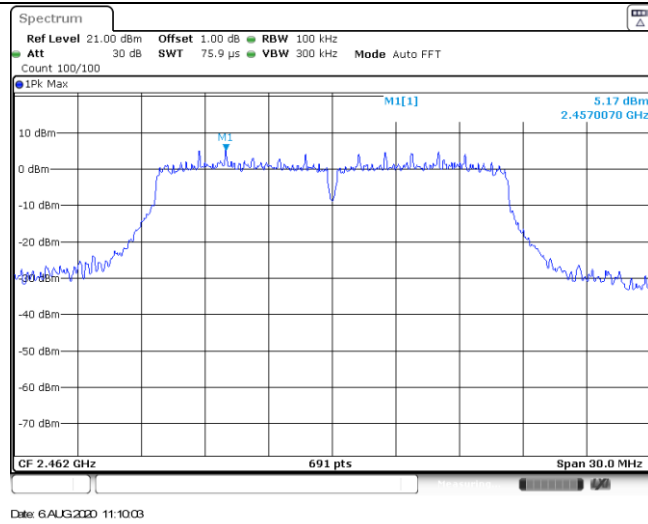
CH11
1GHz~26GHz



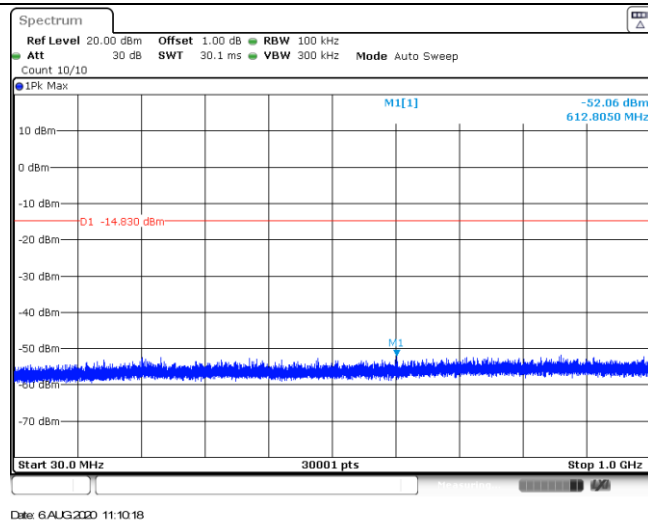
Test Item:	SE	Type:	802.11g
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<p>CH01 30MHz~1000MHz</p>		<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max</p> <p>M1[1] -51.87 dBm 832.2760 MHz</p> <p>D1 -14.430 dBm</p> <p>M1</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 6 AUG 2020 11:02:32</p>	
<p>CH01 1GHz~26GHz</p>		<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max</p> <p>M1[1] -21.92 dBm 4.825000 GHz</p> <p>D1 -14.430 dBm</p> <p>M1</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 6 AUG 2020 11:02:48</p>	

<p>CH06 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max M1 4.49 dBm 2.4319640 GHz CF 2.437 GHz 691 pts Span 30.0 MHz Date: 6.AUG.2020 11:03:13</p>
<p>CH06 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -51.76 dBm 894.8070 MHz O1 -15.510 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 6.AUG.2020 11:03:29</p>
<p>CH06 1GHz~26GHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -25.31 dBm 4.872500 GHz O1 -15.510 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 6.AUG.2020 11:03:45</p>

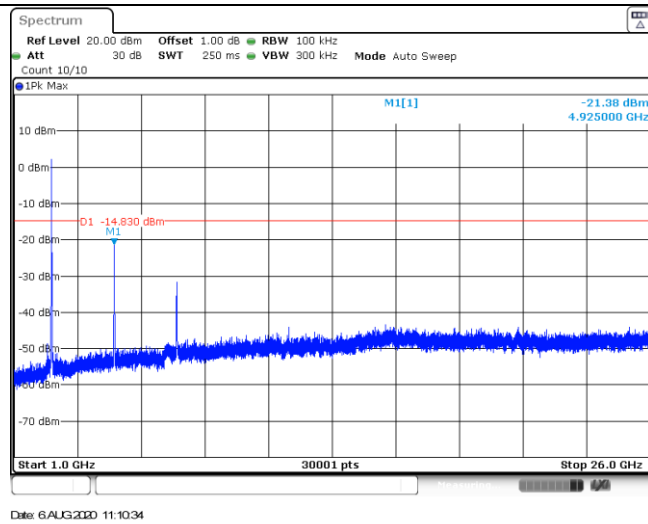
CH11
Reference level

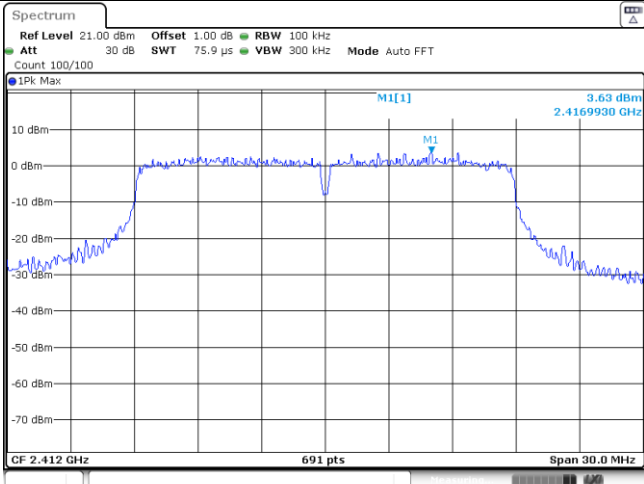
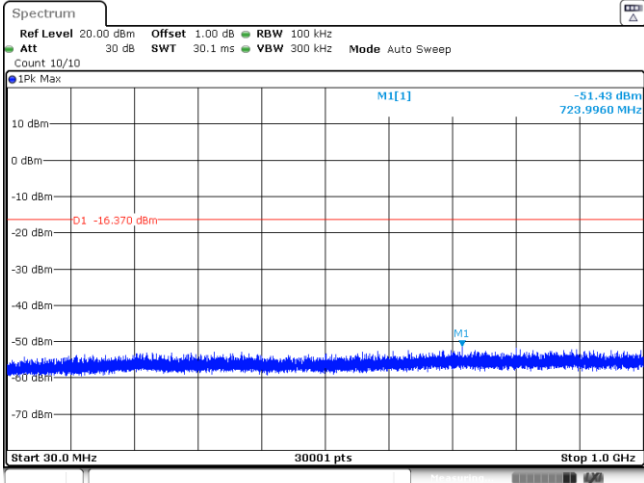
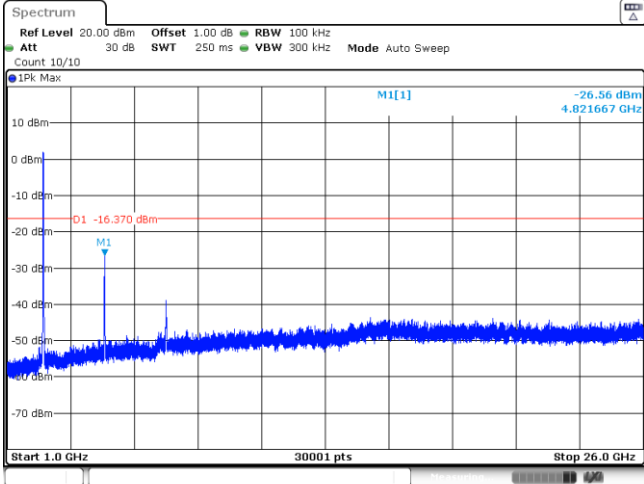


CH11
30MHz~1000MHz

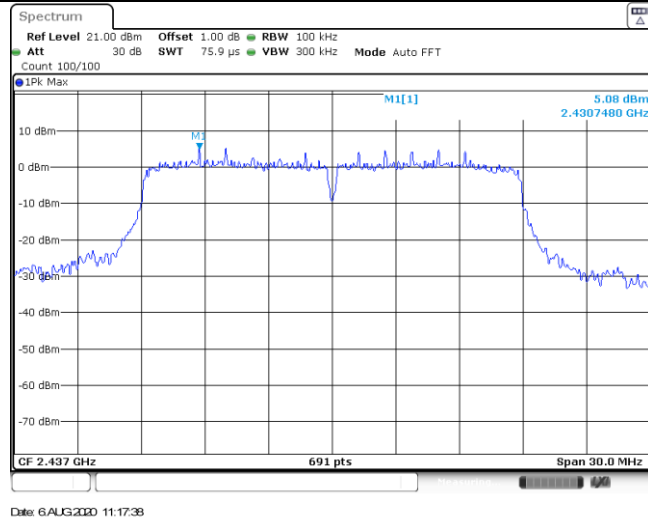


CH11
1GHz~26GHz



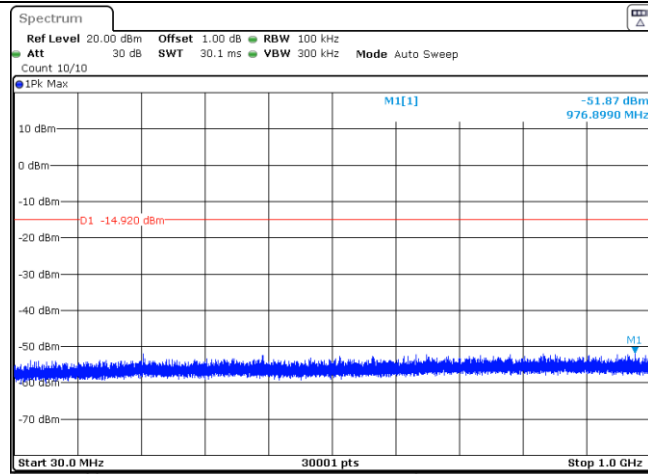
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<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

CH06
Reference level



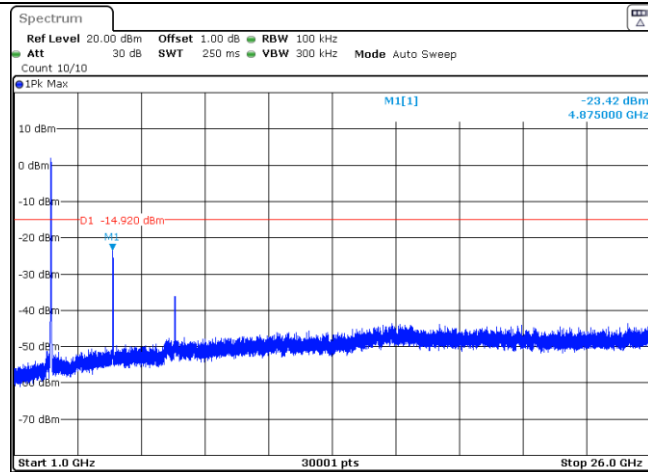
Date: 6.AUG.2020 11:17:38

CH06
30MHz~1000MHz



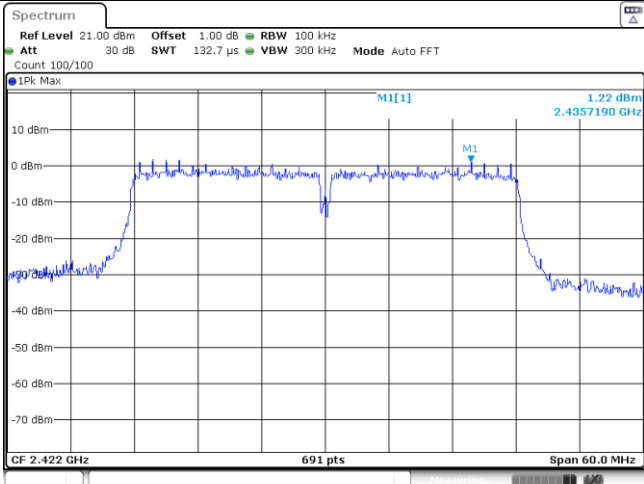
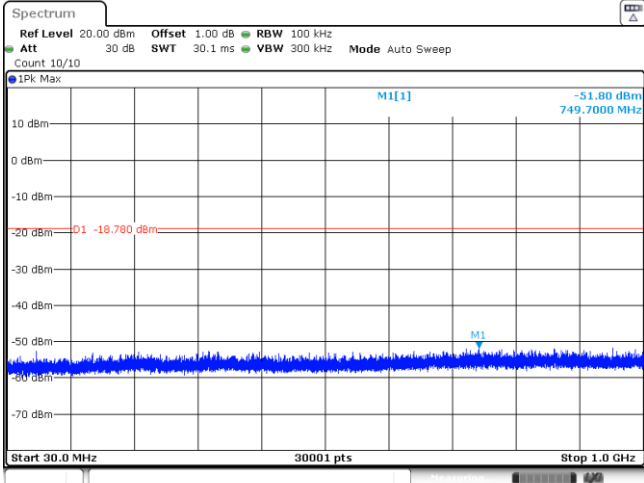
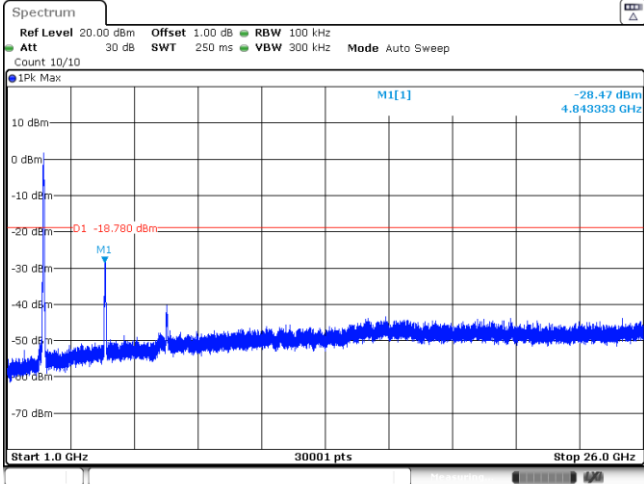
Date: 6.AUG.2020 11:17:54

CH06
1GHz~26GHz

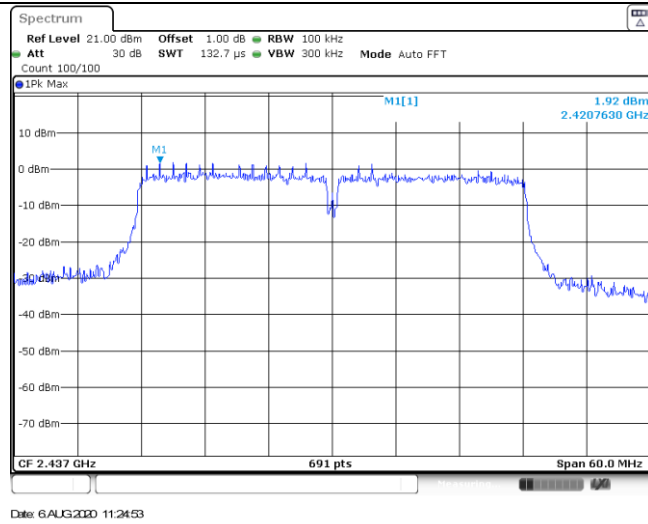


Date: 6.AUG.2020 11:18:10

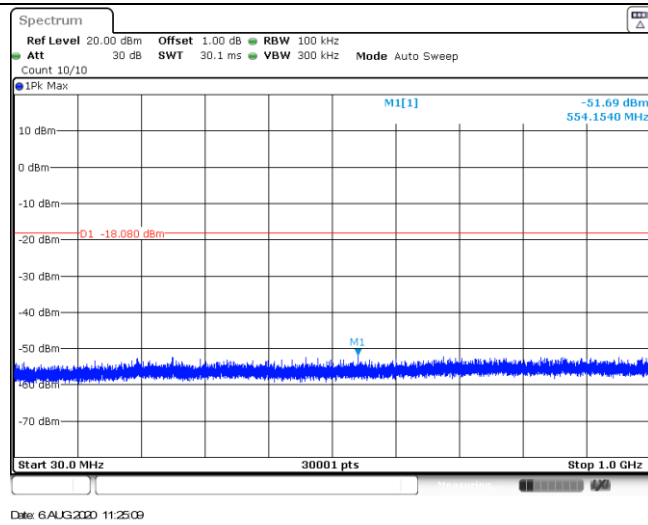
<p>CH11 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max 2.81 dBm 2.4669930 GHz M1[1] M1 CF 2.462 GHz 691 pts Span 30.0 MHz Date: 6.AUG.2020 11:20:09</p>
<p>CH11 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max -51.75 dBm 852.6130 MHz M1[1] M1 D1 -17.190 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 6.AUG.2020 11:20:25</p>
<p>CH11 1GHz~26GHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max -22.30 dBm 4.924167 GHz M1[1] M1 D1 -17.190 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 6.AUG.2020 11:20:41</p>

Test Item:	SE	Type:	802.11n(HT40)
<p>CH03 Reference level</p>			
<p>CH03 30MHz~1000MHz</p>			
<p>CH03 1GHz~26GHz</p>			

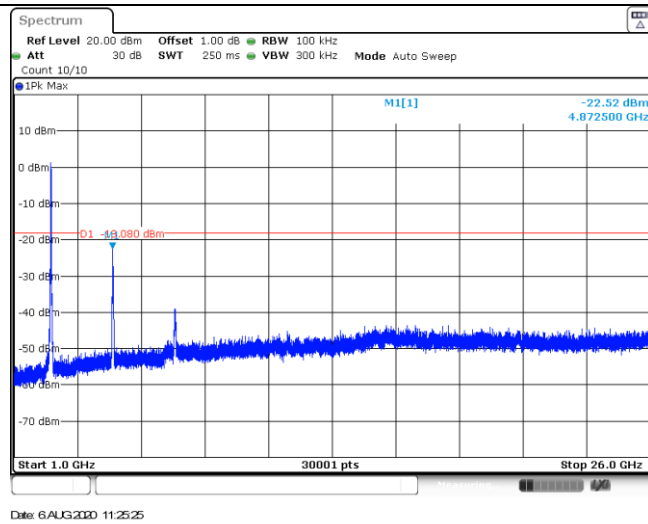
CH06
Reference level



CH06
30MHz~1000MHz



CH06
1GHz~26GHz



<p>CH09 Reference level</p>	<p>Date: 6.AUG.2020 11:27:14</p>
<p>CH09 30MHz~1000MHz</p>	<p>Date: 6.AUG.2020 11:27:29</p>
<p>CH09 1GHz~26GHz</p>	<p>Date: 6.AUG.2020 11:27:45</p>

-----End of Report-----