

APPENDIX REPORT

Project No.	SHT1911051203EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT19110512009	Model No.	iData K1S
Start test date	2019/12/20	Finish date	2019/12/20
Temperature	25°C	Humidity	50%
Test Engineer	Ximing.Huang	Auditor	<i>William.wang</i>

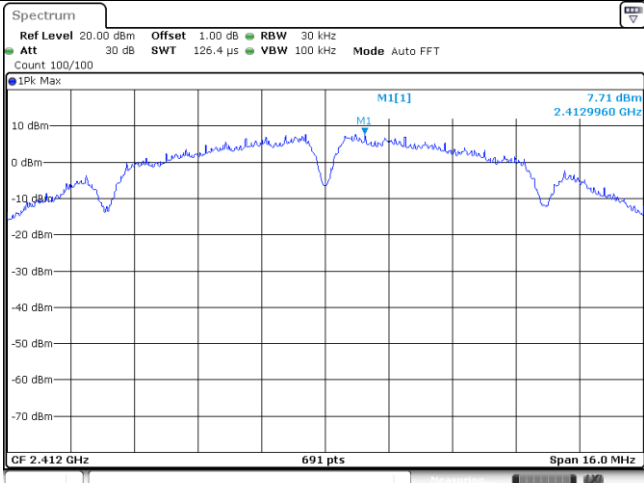
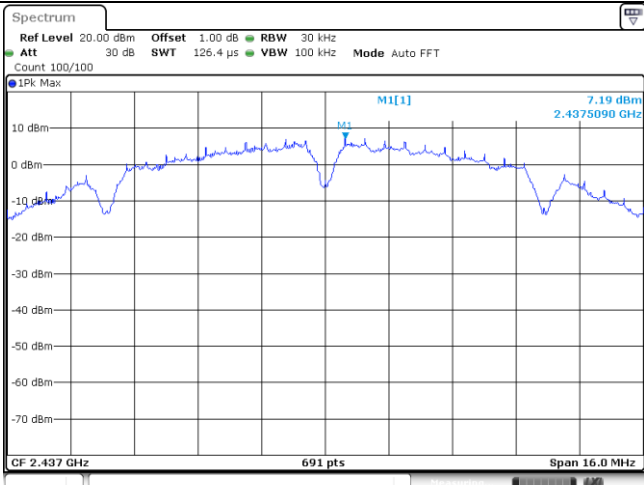
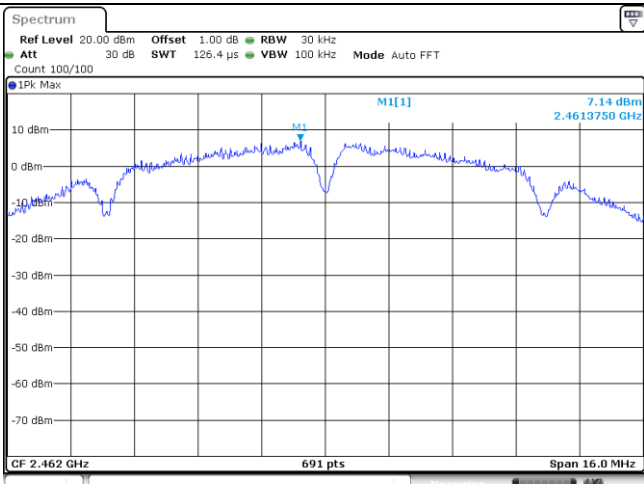
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

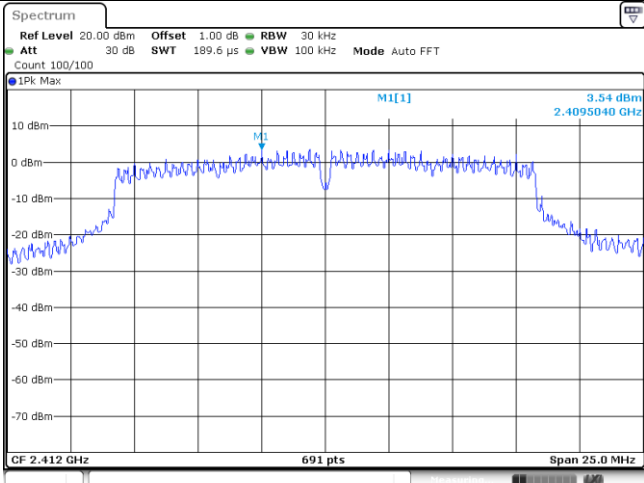
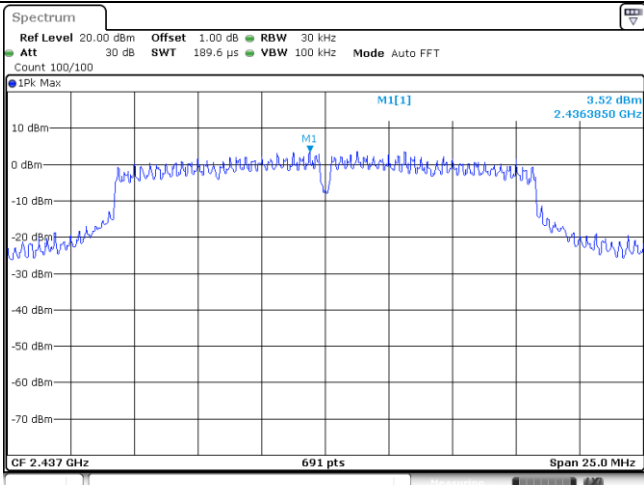
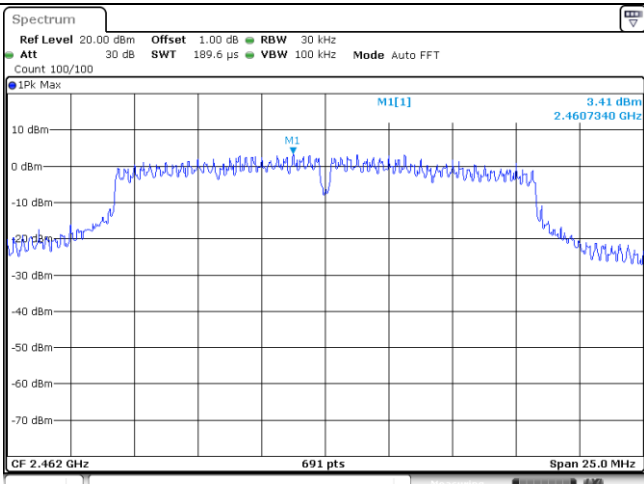
Appendix A: Conducted Peak Output Power

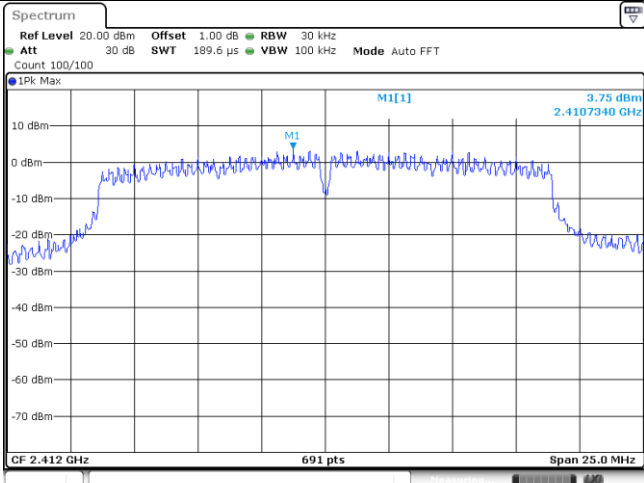
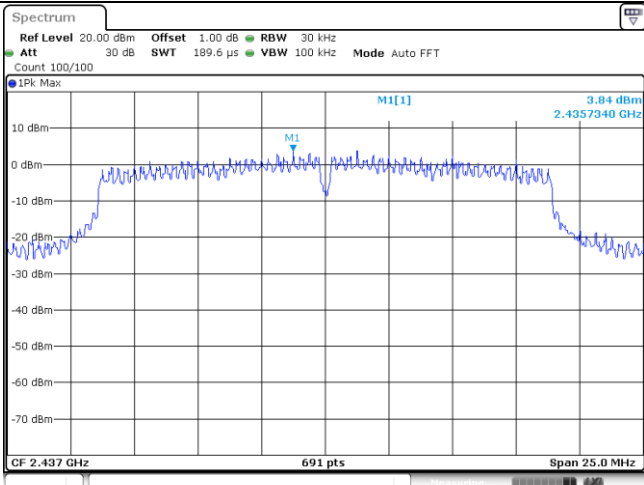
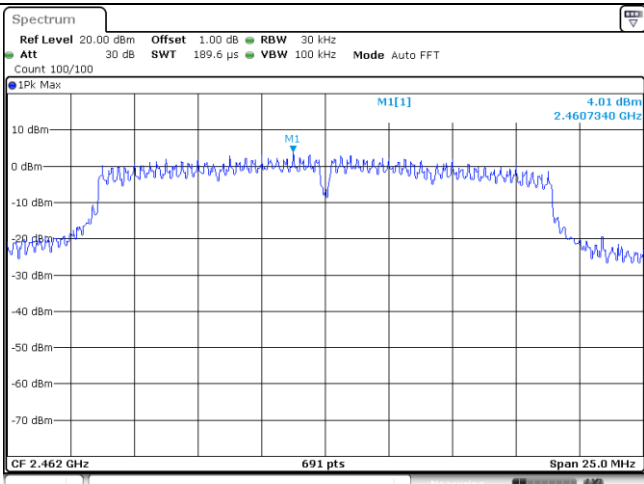
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	22.38	20.20	≤30.00	Pass
	06	22.39	19.47		
	11	22.22	20.33		
802.11g	01	26.83	23.11	≤30.00	Pass
	06	26.86	23.35		
	11	26.93	23.29		
802.11n(HT20)	01	26.58	23.15	≤30.00	Pass
	06	26.73	23.25		
	11	26.87	23.21		
802.11n(HT40)	03	27.28	23.72	≤30.00	Pass
	06	27.24	22.28		
	09	27.27	23.82		

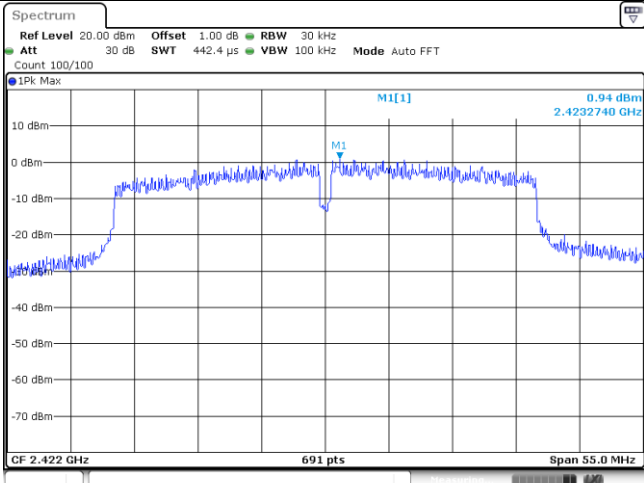
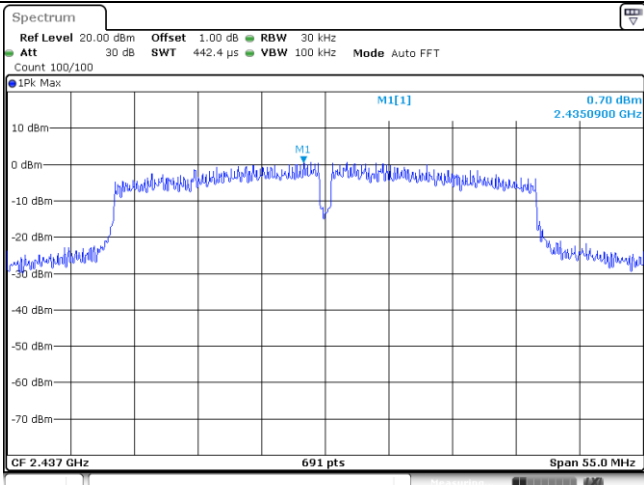
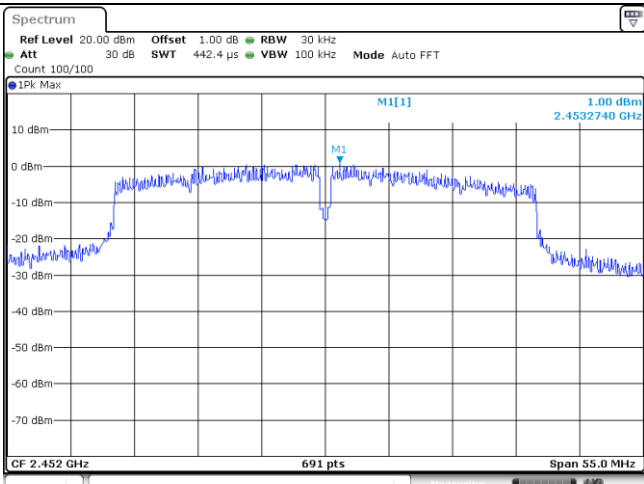
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	7.71	≤8.00	Pass
	06	7.19		
	11	7.14		
802.11g	01	3.54	≤8.00	Pass
	06	3.52		
	11	3.41		
802.11n(HT20)	01	3.75	≤8.00	Pass
	06	3.84		
	11	4.01		
802.11n(HT40)	03	0.94	≤8.00	Pass
	06	0.70		
	09	1.00		

Type:		802.11 b
CH01	 <p>Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 30 kHz SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>7.71 dBm 2.412960 GHz</p> <p>CF 2.412 GHz 691 pts Span 16.0 MHz</p> <p>Date: 20 DEC 2019 09:52:36</p>	
CH06	 <p>Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 30 kHz SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>7.19 dBm 2.4375090 GHz</p> <p>CF 2.437 GHz 691 pts Span 16.0 MHz</p> <p>Date: 20 DEC 2019 09:54:40</p>	
CH11	 <p>Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 30 kHz SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>7.14 dBm 2.4613750 GHz</p> <p>CF 2.462 GHz 691 pts Span 16.0 MHz</p> <p>Date: 20 DEC 2019 09:58:14</p>	

Type:		802.11 g
CH01		
CH06		
CH11		

Type:		802.11n(HT20)
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>9.75 dBm 2.4107340 GHz</p> <p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 20 DEC 2019 10:03:07</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>9.84 dBm 2.4357340 GHz</p> <p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 20 DEC 2019 10:04:38</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>4.01 dBm 2.4607340 GHz</p> <p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 20 DEC 2019 10:08:00</p>	

Type:		802.11n(HT40)
CH03	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 442.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 0.94 dBm 2.4232740 GHz</p> <p>CF 2.422 GHz 691 pts Span 55.0 MHz</p> <p>Date: 20 DEC 2019 10:07:43</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 442.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 0.70 dBm 2.4350900 GHz</p> <p>CF 2.437 GHz 691 pts Span 55.0 MHz</p> <p>Date: 20 DEC 2019 10:09:19</p>	
CH09	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 442.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 1.00 dBm 2.4532740 GHz</p> <p>CF 2.452 GHz 691 pts Span 55.0 MHz</p> <p>Date: 20 DEC 2019 10:10:44</p>	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.61	≥0.5	Pass
	06	8.61		
	11	8.64		
802.11g	01	13.92	≥0.5	Pass
	06	14.76		
	11	14.19		
802.11n(HT20)	01	14.49	≥0.5	Pass
	06	15.09		
	11	13.86		
802.11n(HT40)	03	28.98	≥0.5	Pass
	06	32.64		
	09	32.70		

Type:		802.11 b																												
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 IPK View 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>2.40795 GHz</td> <td>4.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41251 GHz</td> <td>11.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.61 MHz</td> <td>-0.55 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 09:51:46</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40795 GHz	4.38 dBm			M2		1	2.41251 GHz	11.07 dBm			D3	M1	1	8.61 MHz	-0.55 dB		
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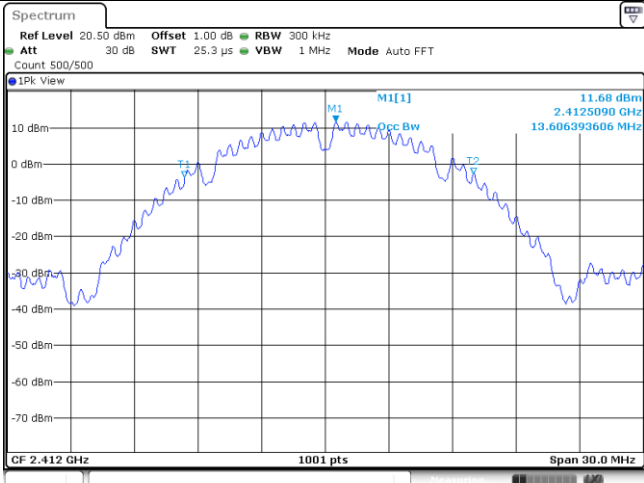
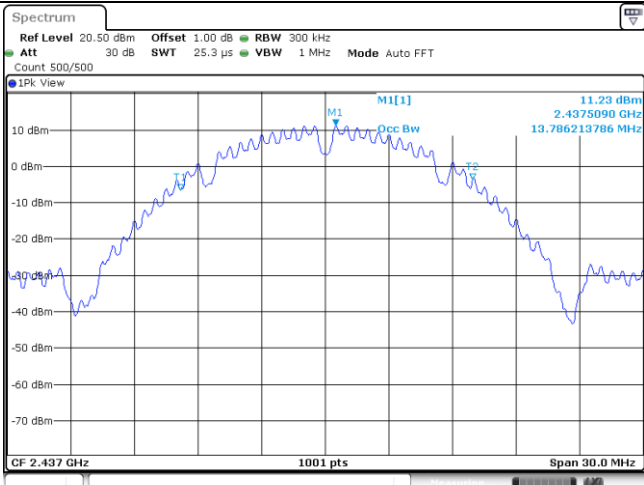
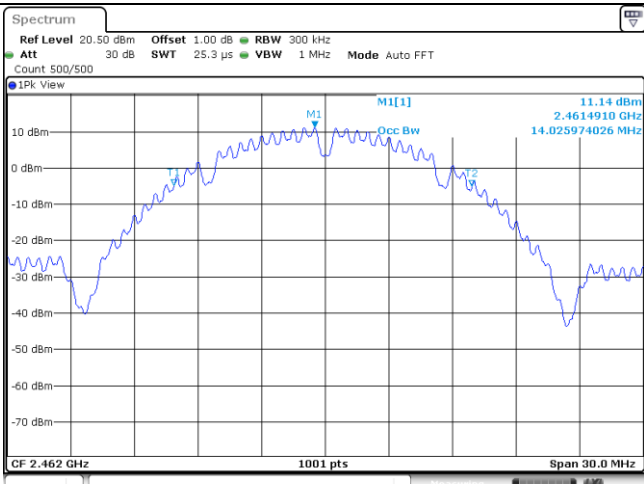
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CH01	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 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>2.40564 GHz</td> <td>0.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41326 GHz</td> <td>8.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>13.92 MHz</td> <td>1.82 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 09:57:41</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40564 GHz	0.09 dBm			M2		1	2.41326 GHz	8.10 dBm			D3	M1	1	13.92 MHz	1.82 dB		
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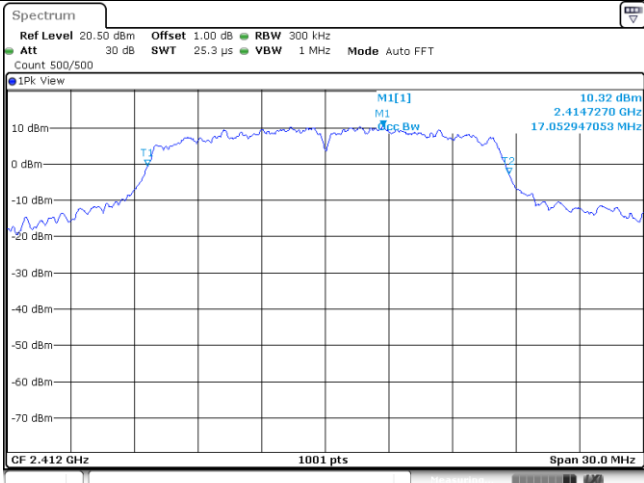
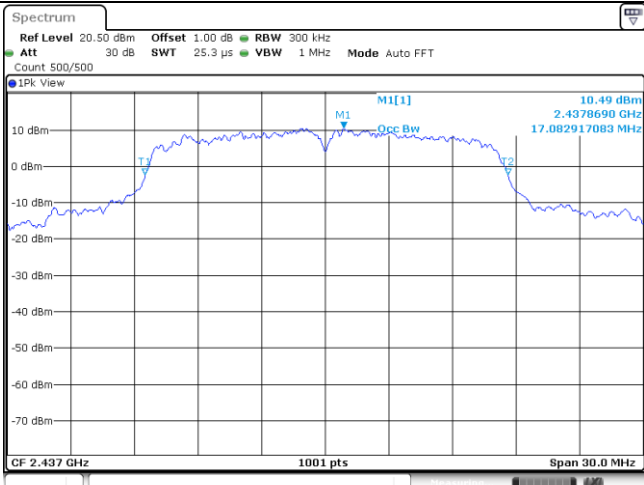
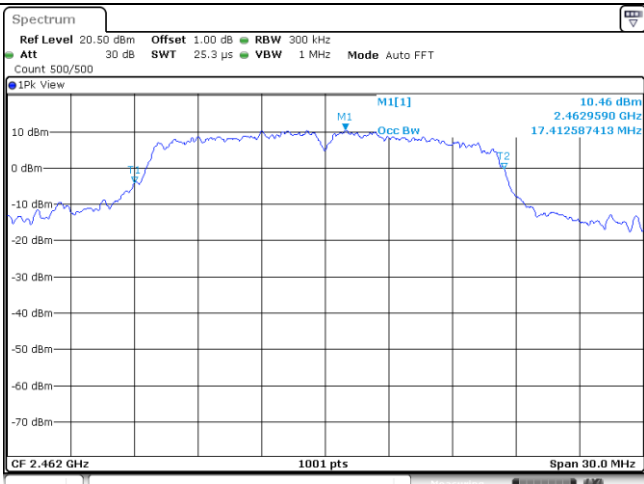
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CH06		<p> Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 IPK View 10 dBm 0 dBm -0.1 2.347 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <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>2.42947 GHz</td> <td>2.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43574 GHz</td> <td>8.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>15.09 MHz</td> <td>-0.78 dB</td> <td></td> <td></td> </tr> </tbody> </table> Date: 20 DEC 2019 10:04:17 </p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42947 GHz	2.28 dBm			M2		1	2.43574 GHz	8.35 dBm			D3	M1	1	15.09 MHz	-0.78 dB		
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M2		1	2.43574 GHz	8.35 dBm																										
D3	M1	1	15.09 MHz	-0.78 dB																										
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 IPK View 10 dBm 0 dBm -0.1 2.492 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <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>2.4545 GHz</td> <td>2.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.46326 GHz</td> <td>8.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>13.86 MHz</td> <td>-2.08 dB</td> <td></td> <td></td> </tr> </tbody> </table> Date: 20 DEC 2019 10:05:39 </p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.4545 GHz	2.15 dBm			M2		1	2.46326 GHz	8.49 dBm			D3	M1	1	13.86 MHz	-2.08 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.4545 GHz	2.15 dBm																										
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D3	M1	1	13.86 MHz	-2.08 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 IPK View 10 dBm 0 dBm -0.219 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.422 GHz 1001 pts Span 60.0 MHz 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>2.41066 GHz</td> <td>0.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.42572 GHz</td> <td>6.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>28.98 MHz</td> <td>-2.84 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:07:23</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41066 GHz	0.21 dBm			M2		1	2.42572 GHz	6.22 dBm			D3	M1	1	28.98 MHz	-2.84 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
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M2		1	2.42572 GHz	6.22 dBm																										
D3	M1	1	28.98 MHz	-2.84 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 IPK View 10 dBm 0 dBm -0.023 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 60.0 MHz 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>2.41942 GHz</td> <td>-0.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.44072 GHz</td> <td>5.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>32.64 MHz</td> <td>-0.09 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:08:59</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41942 GHz	-0.25 dBm			M2		1	2.44072 GHz	5.98 dBm			D3	M1	1	32.64 MHz	-0.09 dB		
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M2		1	2.44072 GHz	5.98 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 IPK View 10 dBm 0 dBm -0.045 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.452 GHz 1001 pts Span 60.0 MHz 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>2.43436 GHz</td> <td>-3.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.44948 GHz</td> <td>6.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>32.7 MHz</td> <td>2.23 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:10:24</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43436 GHz	-3.41 dBm			M2		1	2.44948 GHz	6.05 dBm			D3	M1	1	32.7 MHz	2.23 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
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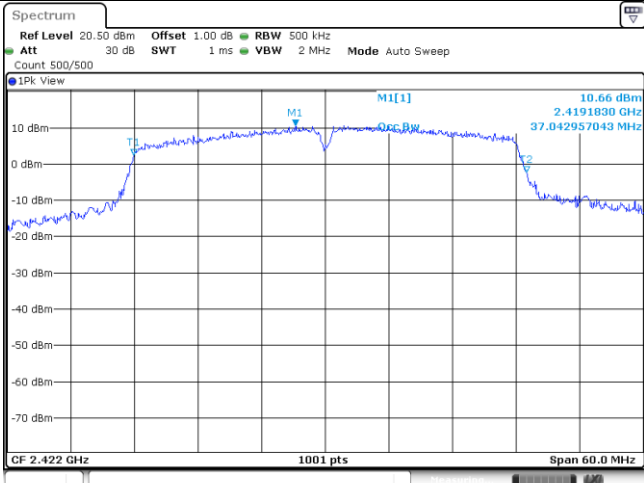
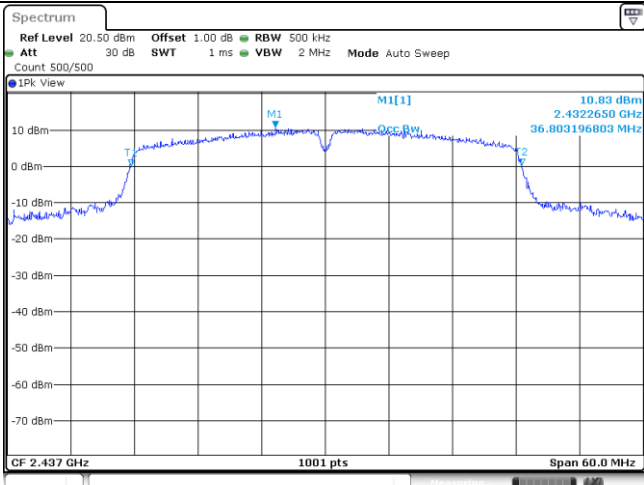
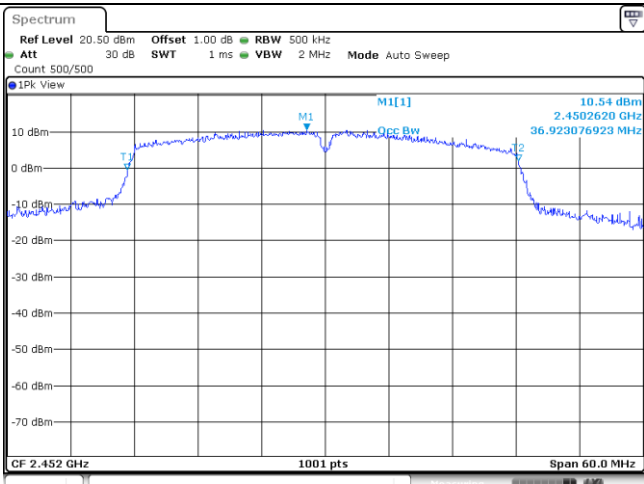
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.61	-	Pass
	06	13.79		
	11	14.03		
802.11g	01	17.05	-	Pass
	06	17.08		
	11	17.41		
802.11n(HT20)	01	18.13	-	Pass
	06	18.13		
	11	18.19		
802.11n(HT40)	03	37.04	-	Pass
	06	36.80		
	09	36.92		

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>11.68 dBm 2.4125090 GHz 13.606393606 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:51:55</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>11.23 dBm 2.4375090 GHz 13.786213786 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:54:27</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>11.14 dBm 2.4614910 GHz 14.025974026 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:58:02</p>	

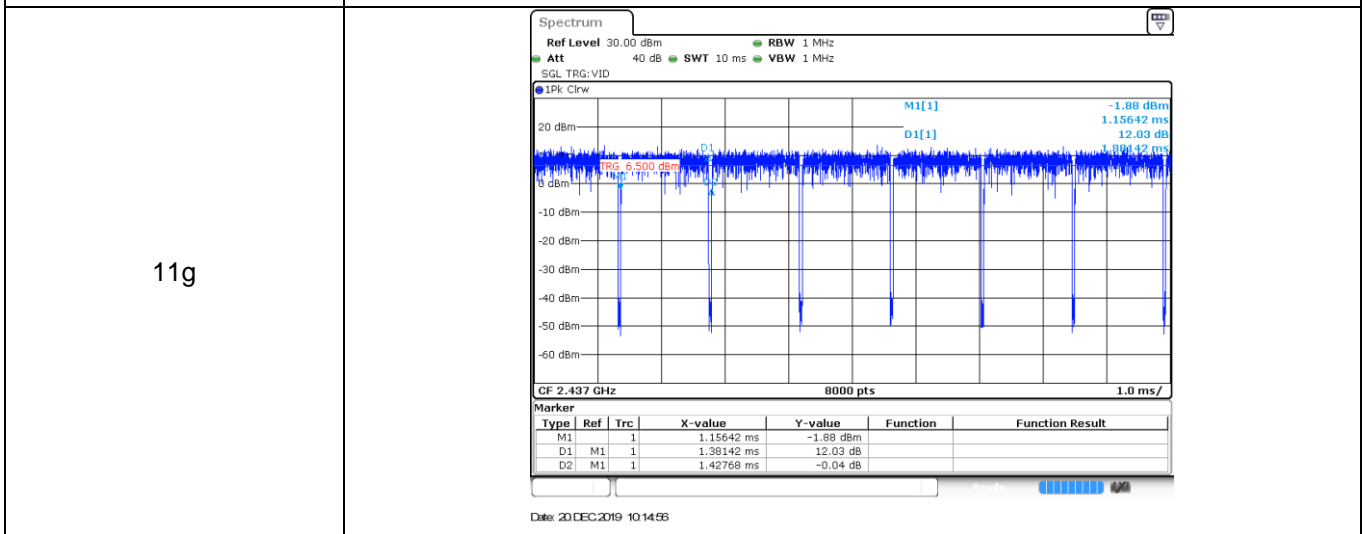
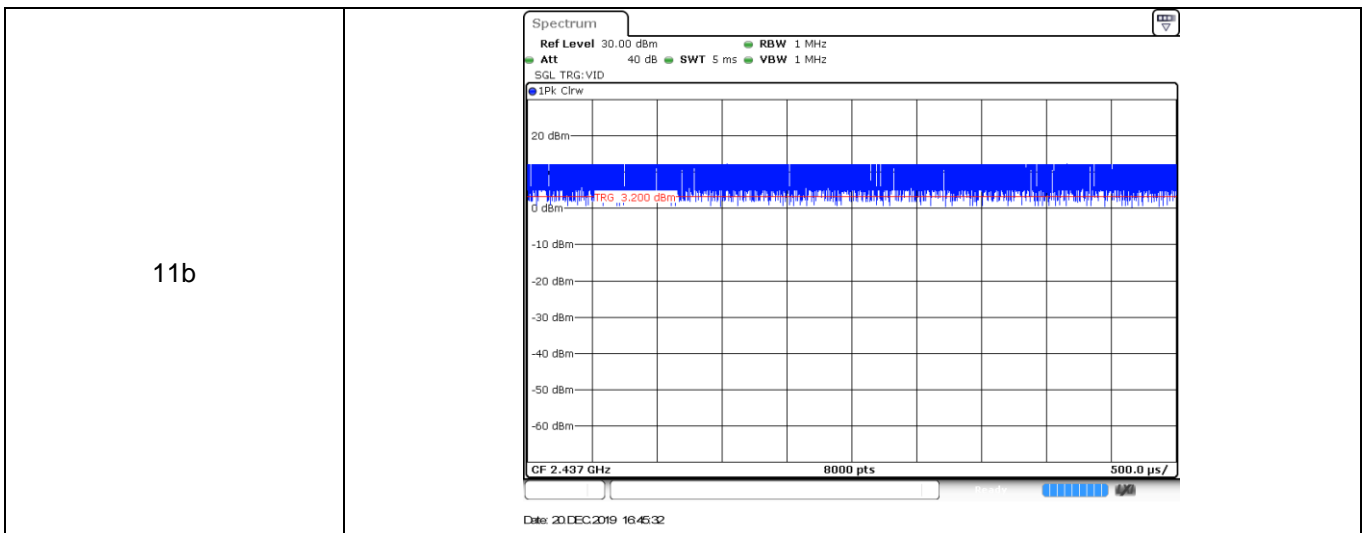
Type:		802.11 g
CH01	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>1PK View</p> <p>M1[1] 10.32 dBm M1 2.4147270 GHz Occ Bw 17.052947053 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:57:49</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>1PK View</p> <p>M1[1] 10.49 dBm M1 2.4378690 GHz Occ Bw 17.082917083 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:59:21</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>1PK View</p> <p>M1[1] 10.46 dBm M1 2.4629590 GHz Occ Bw 17.412587413 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 10:00:44</p>	

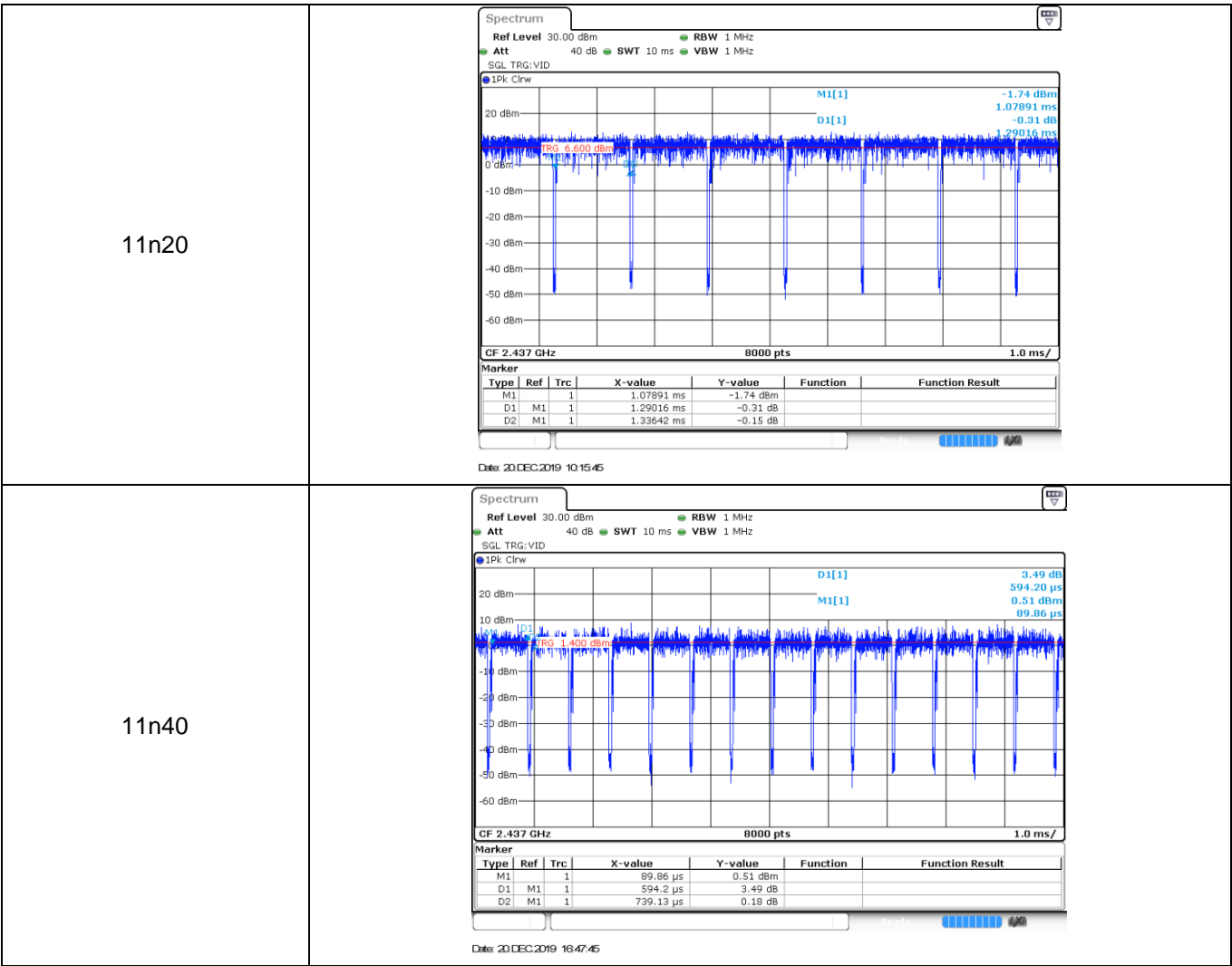
Type:		802.11n(HT20)
CH01		<p> Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 1PK View 9.97 dBm 2.4108910 GHz 18.131868132 MHz CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 20 DEC 2019 10:02:55 </p>
CH06		<p> Spectrum Ref Level 20.50 dBm 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 10.54 dBm 2.4353820 GHz 18.131868132 MHz CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 20 DEC 2019 10:04:25 </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 10.40 dBm 2.4603820 GHz 18.191808192 MHz CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 20 DEC 2019 10:05:47 </p>

Type:		802.11n(HT40)
CH03	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 500/500</p> <p>IPK View</p> <p>10.66 dBm 2.4191830 GHz 37.042957043 MHz</p> <p>CF 2.422 GHz 1001 pts Span 60.0 MHz</p> <p>Date: 20 DEC 2019 10:07:31</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 500/500</p> <p>IPK View</p> <p>10.83 dBm 2.4322650 GHz 36.803196803 MHz</p> <p>CF 2.437 GHz 1001 pts Span 60.0 MHz</p> <p>Date: 20 DEC 2019 10:09:07</p>	
CH09	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 500/500</p> <p>IPK View</p> <p>10.54 dBm 2.4502620 GHz 36.923076923 MHz</p> <p>CF 2.452 GHz 1001 pts Span 60.0 MHz</p> <p>Date: 20 DEC 2019 10:10:32</p>	



Appendix E: Duty Cycle

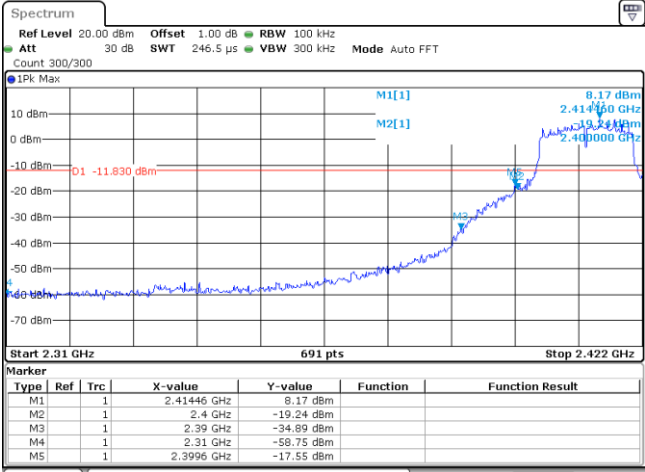
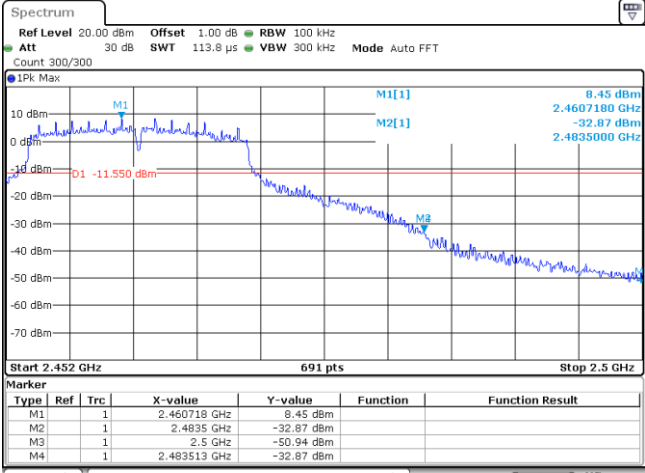
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	---	---	100%	1.0
11g	2437	1.38	1.43	96.5%	0.7
11n20	2437	1.29	1.34	96.3%	0.8
11n40	2437	0.59	0.74	79.7%	1.7

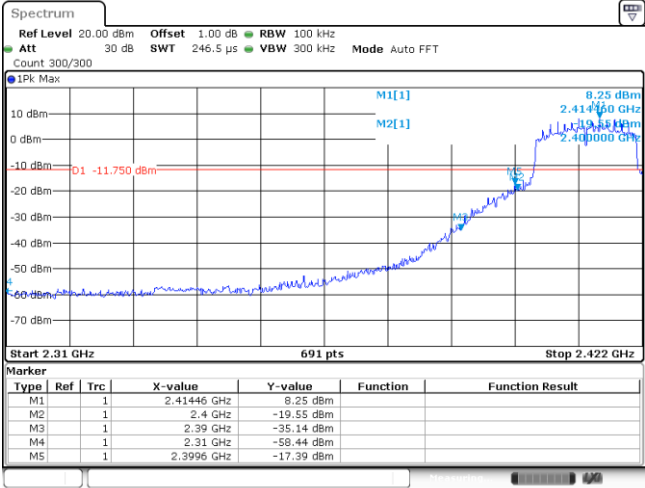
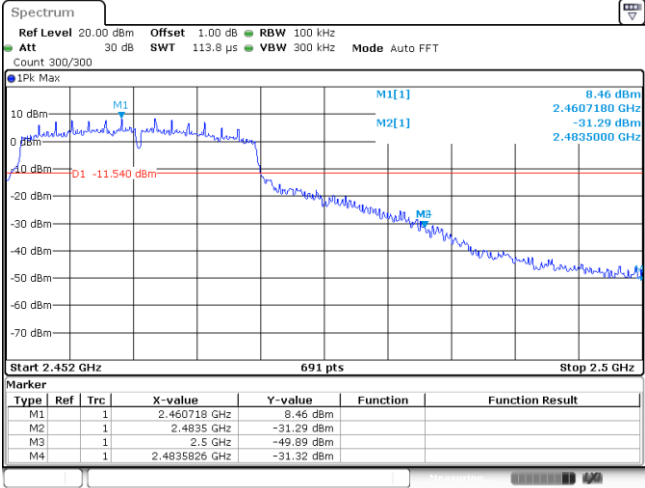


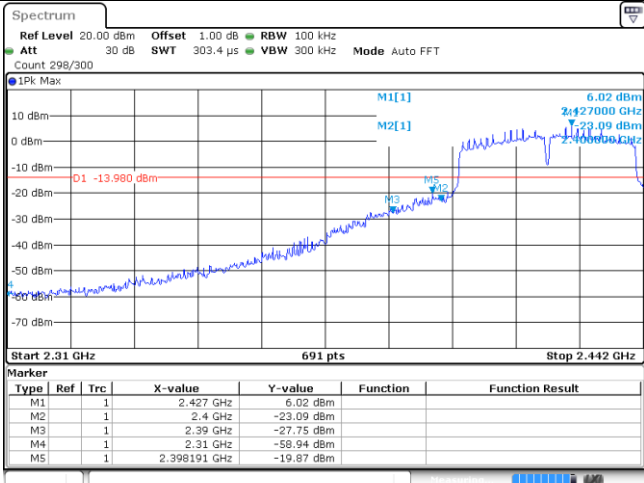
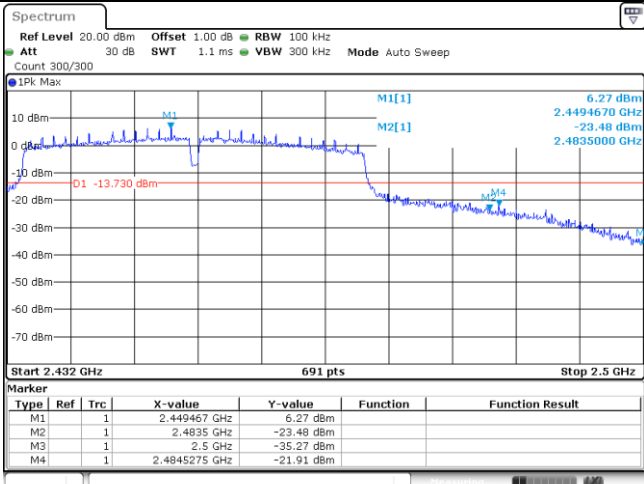


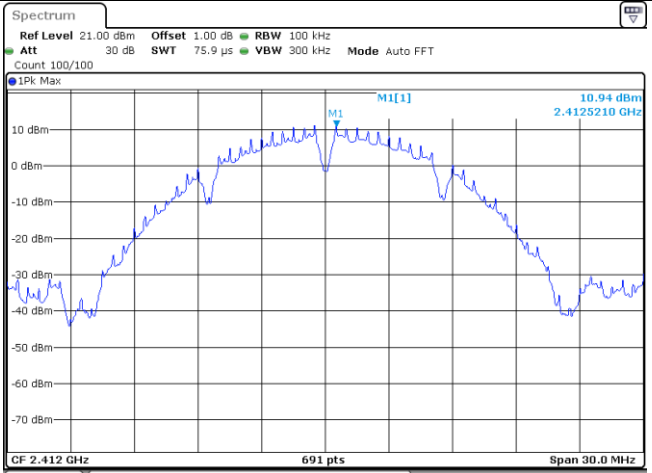
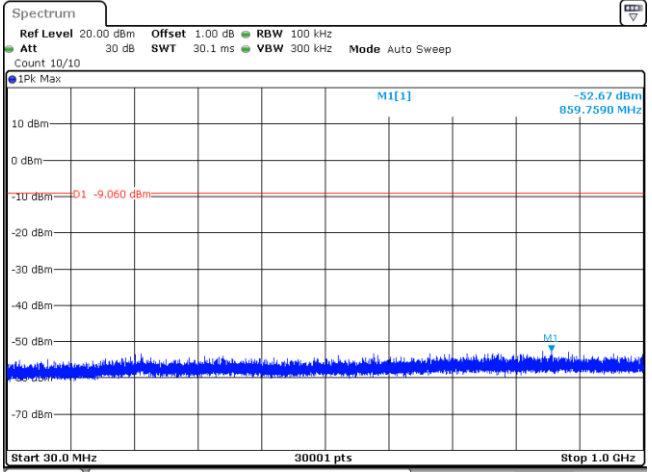
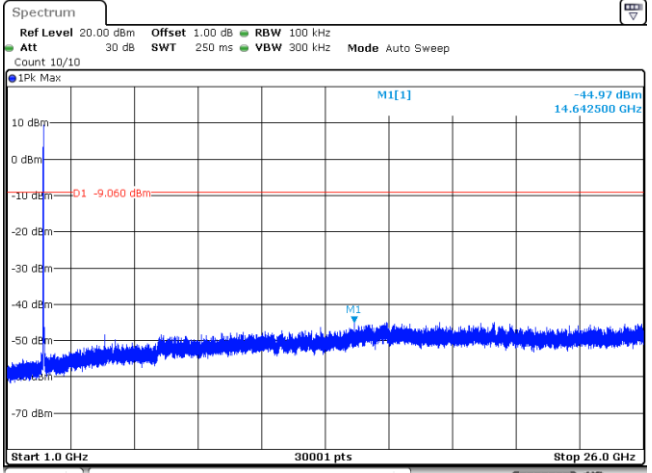
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																																
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 1Pk Max</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <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>2.413 GHz</td> <td>10.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-41.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-54.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-60.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.399113 GHz</td> <td>-31.02 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 09:52:45</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.413 GHz	10.41 dBm			M2	1			2.4 GHz	-41.35 dBm			M3	1			2.39 GHz	-54.98 dBm			M4	1			2.31 GHz	-60.29 dBm			M5	1			2.399113 GHz	-31.02 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
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M3	1			2.39 GHz	-54.98 dBm																																														
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M5	1			2.399113 GHz	-31.02 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 1Pk Max</p> <p>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <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>2.460996 GHz</td> <td>10.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-46.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-52.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.4869913 GHz</td> <td>-44.35 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 09:53:24</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.460996 GHz	10.62 dBm			M2	1			2.4835 GHz	-46.95 dBm			M3	1			2.5 GHz	-52.87 dBm			M4	1			2.4869913 GHz	-44.35 dBm										
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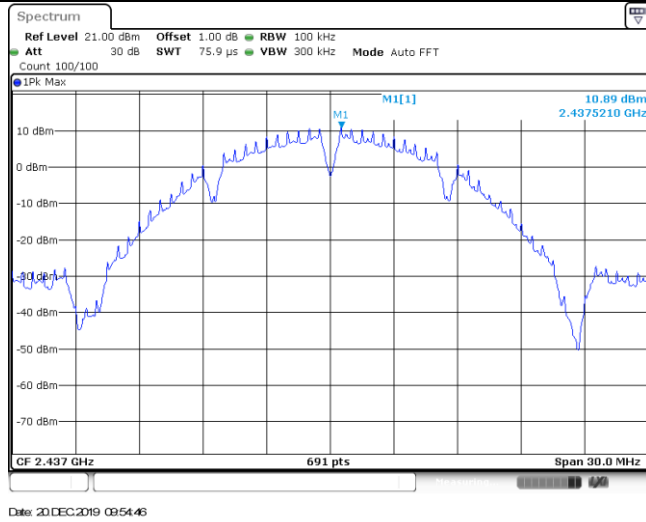
Test Item:	Bandedge	Type:	802.11 g																																																
CH01		 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <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>2.41446 GHz</td> <td>-8.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-19.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-34.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-58.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.3996 GHz</td> <td>-17.55 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 09:31:11</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.41446 GHz	-8.17 dBm			M2	1			2.4 GHz	-19.24 dBm			M3	1			2.39 GHz	-34.89 dBm			M4	1			2.31 GHz	-58.75 dBm			M5	1			2.3996 GHz	-17.55 dBm			
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M4	1			2.31 GHz	-58.75 dBm																																														
M5	1			2.3996 GHz	-17.55 dBm																																														
CH11		 <p>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>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <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>2.460718 GHz</td> <td>-8.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-32.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-50.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.483513 GHz</td> <td>-32.87 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:01:06</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.460718 GHz	-8.45 dBm			M2	1			2.4835 GHz	-32.87 dBm			M3	1			2.5 GHz	-50.94 dBm			M4	1			2.483513 GHz	-32.87 dBm											
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Test Item:	Bandedge	Type:	802.11 n(HT20)																																																
CH01		 <p>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>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <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>2.41446 GHz</td> <td>-8.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-19.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-35.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-58.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.3996 GHz</td> <td>-17.39 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:03:17</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.41446 GHz	-8.25 dBm			M2	1			2.4 GHz	-19.55 dBm			M3	1			2.39 GHz	-35.14 dBm			M4	1			2.31 GHz	-58.44 dBm			M5	1			2.3996 GHz	-17.39 dBm			802.11 n(HT20)
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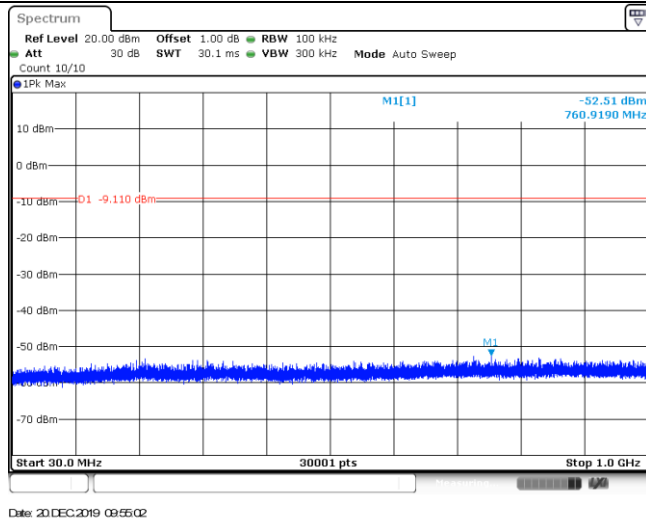
Test Item:	Bandedge	Type:	802.11 n(HT40)																																																
CH03	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 303.4 μs VBW 300 kHz Mode Auto FFT Count 298/300</p> <p>1PK Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.442 GHz</p> <table border="1"> <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>2.427 GHz</td> <td>-6.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-23.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-27.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-58.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.398191 GHz</td> <td>-19.87 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:07:53</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.427 GHz	-6.02 dBm			M2	1			2.4 GHz	-23.09 dBm			M3	1			2.39 GHz	-27.75 dBm			M4	1			2.31 GHz	-58.94 dBm			M5	1			2.398191 GHz	-19.87 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
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M2	1			2.4 GHz	-23.09 dBm																																														
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M4	1			2.31 GHz	-58.94 dBm																																														
M5	1			2.398191 GHz	-19.87 dBm																																														
CH09	 <p>Spectrum 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>1PK Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.432 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <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>2.449467 GHz</td> <td>-6.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-23.48 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-35.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.4845275 GHz</td> <td>-21.91 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 20 DEC 2019 10:10:54</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.449467 GHz	-6.27 dBm			M2	1			2.4835 GHz	-23.48 dBm			M3	1			2.5 GHz	-35.27 dBm			M4	1			2.4845275 GHz	-21.91 dBm										
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M3	1			2.5 GHz	-35.27 dBm																																														
M4	1			2.4845275 GHz	-21.91 dBm																																														

Test Item:	SE	Type:	802.11b
<p>CH01 Reference level</p>		 <p>Spectrum</p> <p>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</p> <p>1Pk Max</p> <p>10.94 dBm 2.4125210 GHz</p> <p>CF 2.412 GHz 691 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:52:52</p>	
<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>-52.67 dBm 859.7590 MHz</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 20 DEC 2019 09:53:09</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>-44.97 dBm 14.642500 GHz</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 20 DEC 2019 09:53:24</p>	

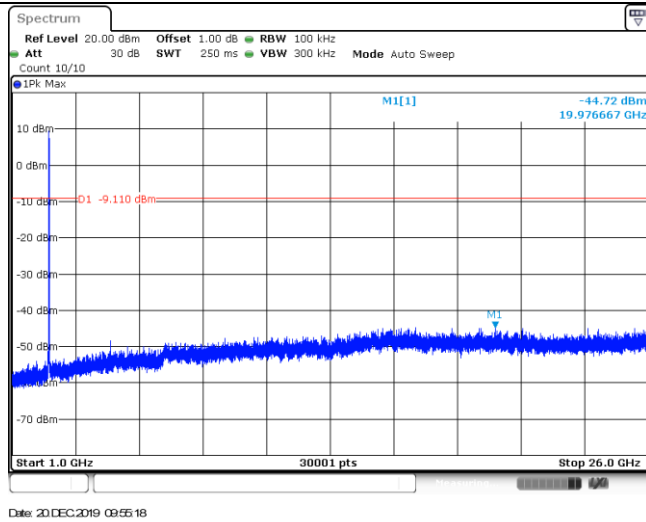
CH06
Reference level



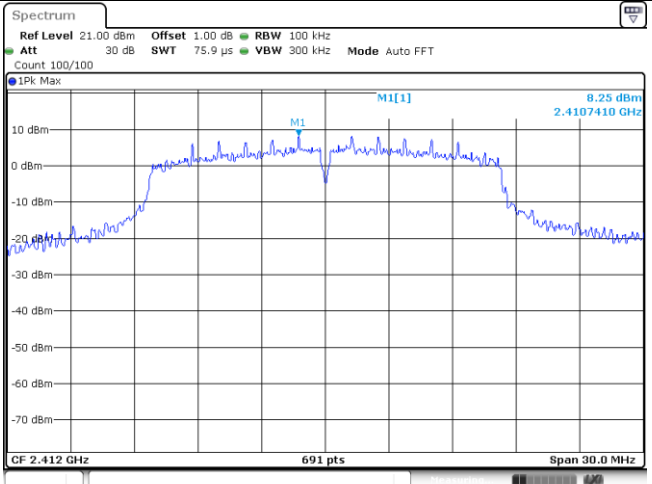
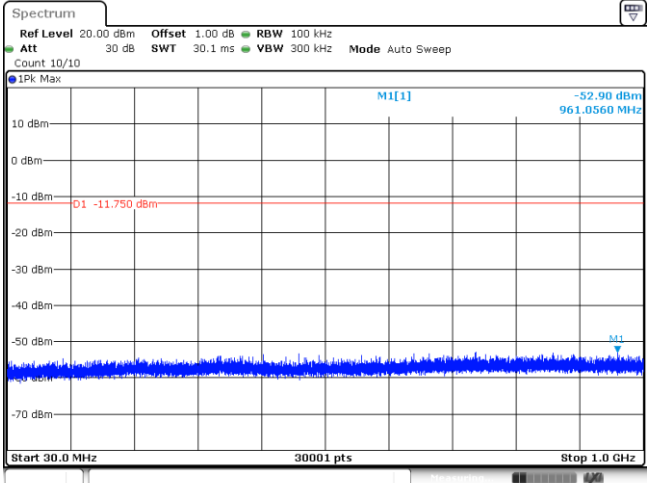
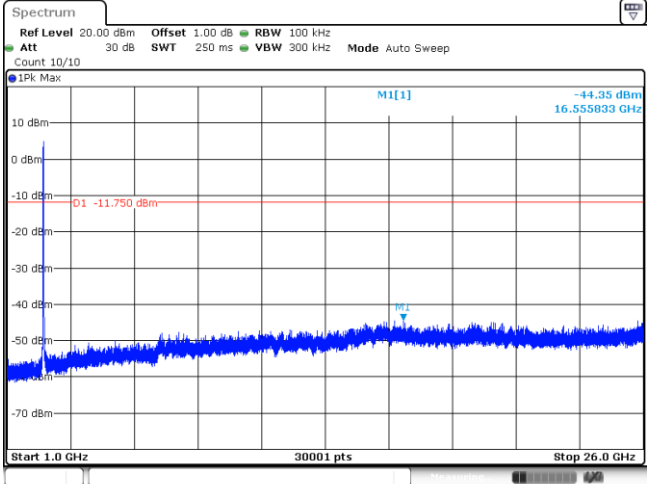
CH06
30MHz~1000MHz



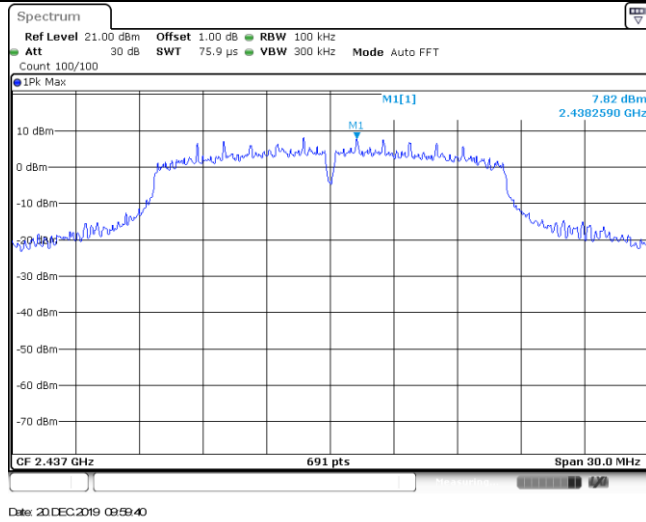
CH06
1GHz~26GHz



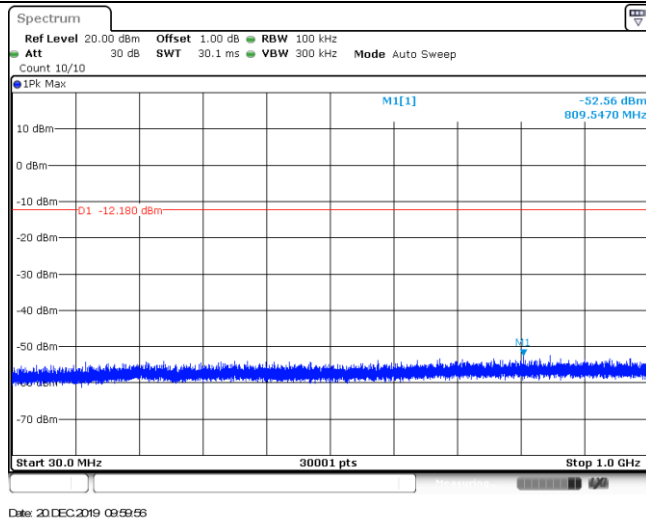
<p>CH11 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max 10.67 dBm 2.4625210 GHz CF 2.462 GHz 691 pts Span 30.0 MHz Date: 20 DEC 2019 09:53:30</p>
<p>CH11 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 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 -53.06 dBm 718.8230 MHz -9.330 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 20 DEC 2019 09:55:46</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 -44.76 dBm 15.148333 GHz -9.330 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 20 DEC 2019 08:57:02</p>

Test Item:	SE	Type:	802.11g
<p>CH01 Reference level</p>		 <p>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</p> <p>0.25 dBm 2.4107410 GHz</p> <p>CF 2.412 GHz 691 pts Span 30.0 MHz</p> <p>Date: 20 DEC 2019 09:58:18</p>	
<p>CH01 30MHz~1000MHz</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>-52.90 dBm 961.0560 MHz</p> <p>D1 -11.750 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 20 DEC 2019 09:58:33</p>	
<p>CH01 1GHz~26GHz</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>-44.35 dBm 16.555833 GHz</p> <p>D1 -11.750 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 20 DEC 2019 09:58:49</p>	

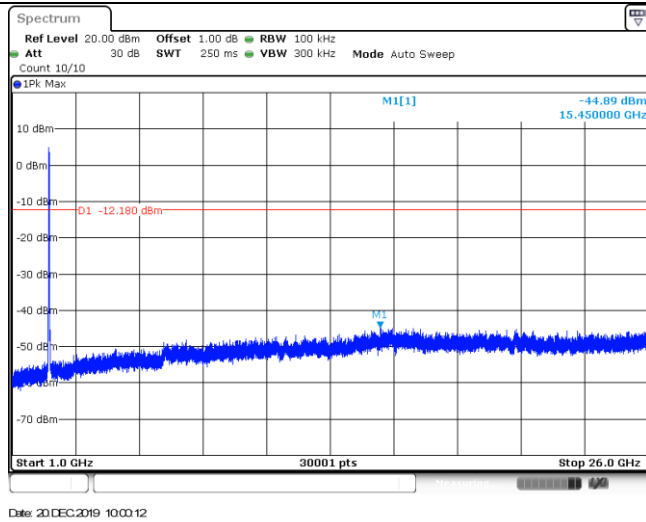
CH06
Reference level



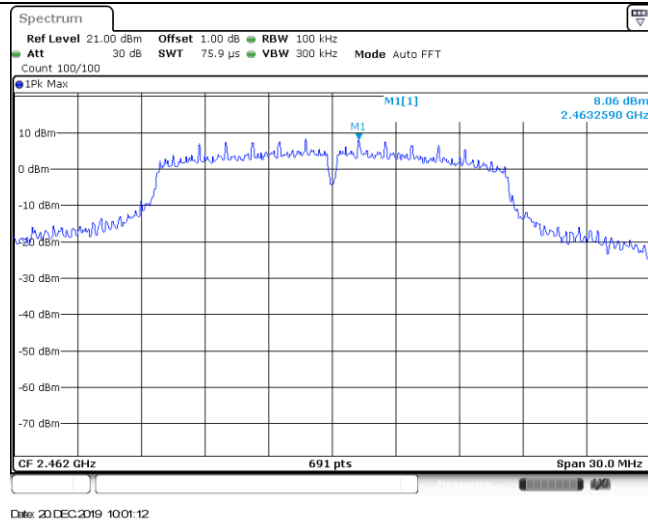
CH06
30MHz~1000MHz



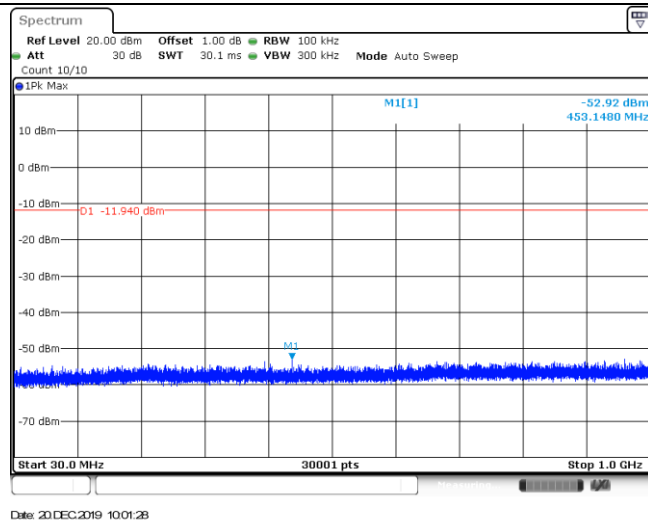
CH06
1GHz~26GHz



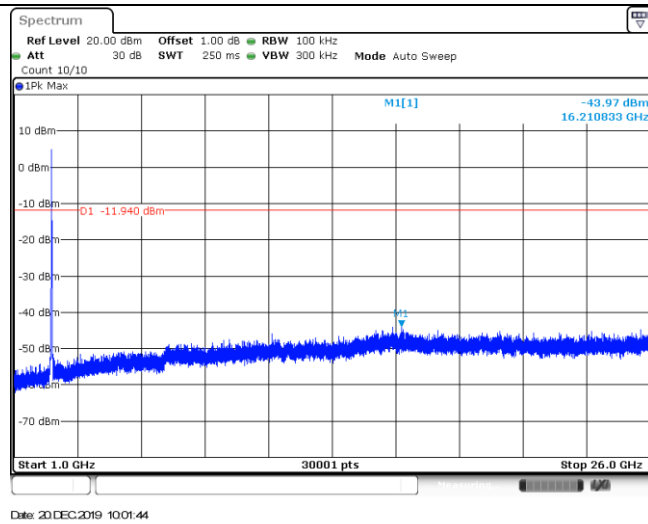
CH11
Reference level

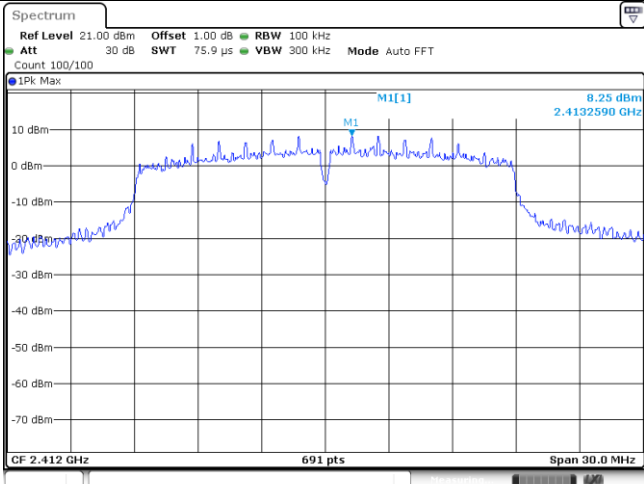
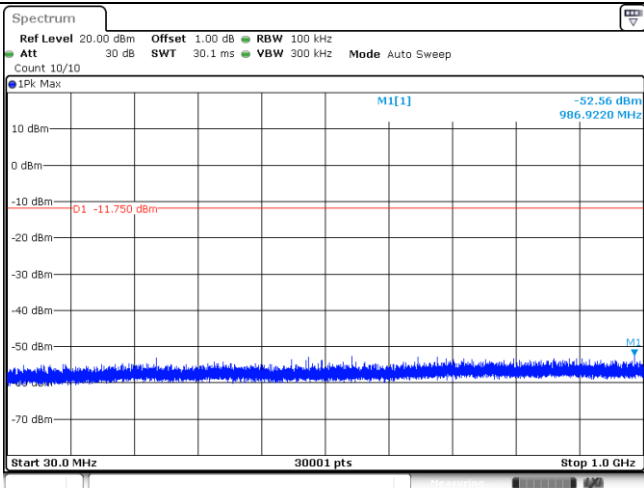
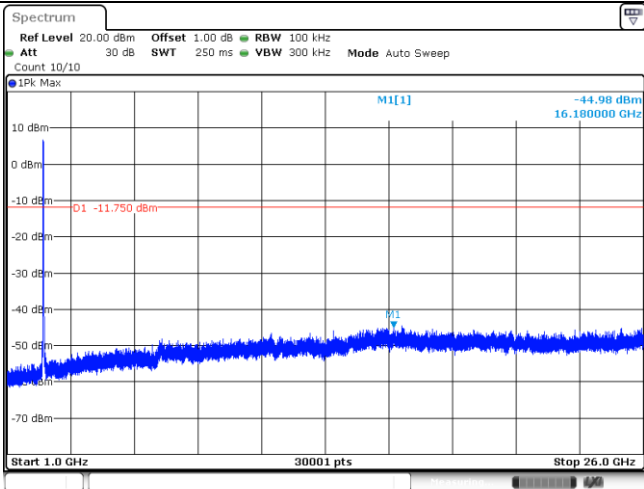


CH11
30MHz~1000MHz

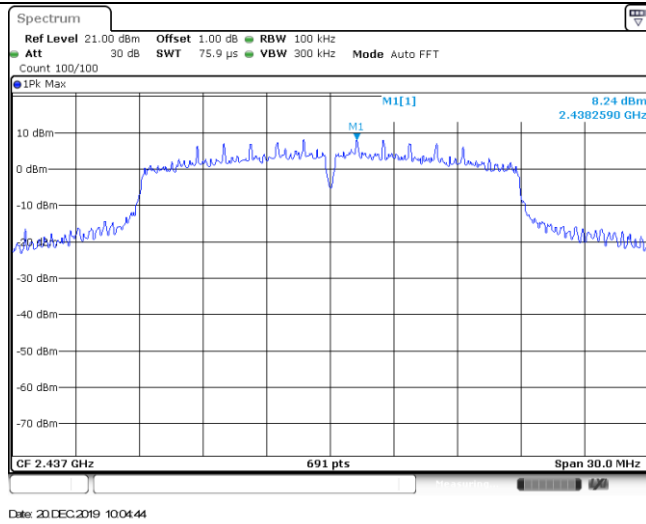


CH11
1GHz~26GHz

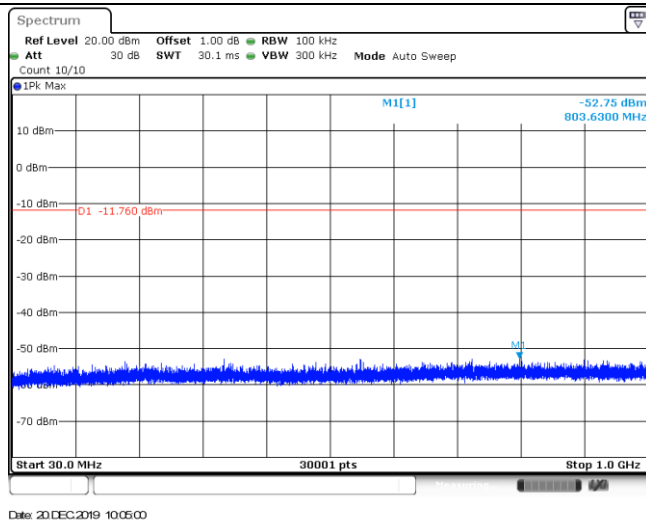


Test Item:	SE	Type:	802.11n(HT20)
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<p>CH01 1GHz~26GHz</p>			

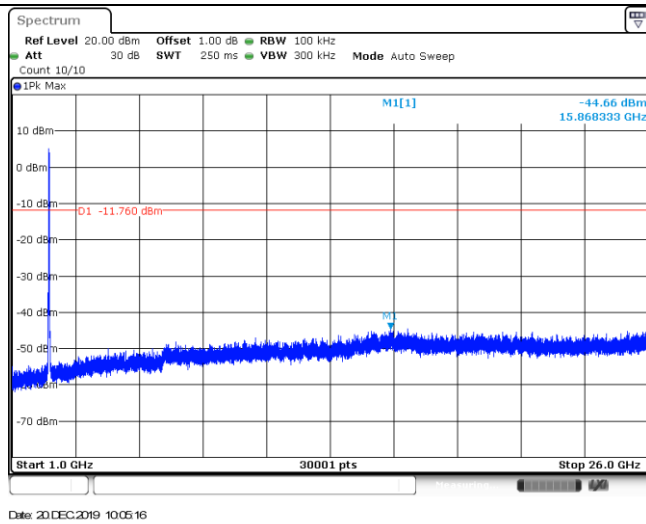
CH06
Reference level



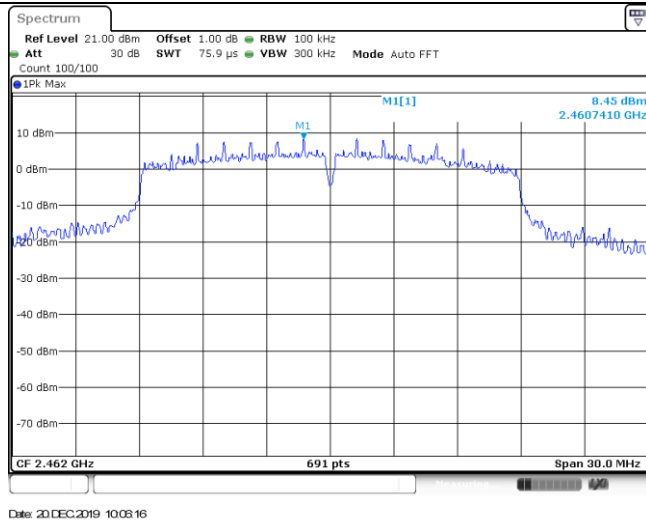
CH06
30MHz~1000MHz



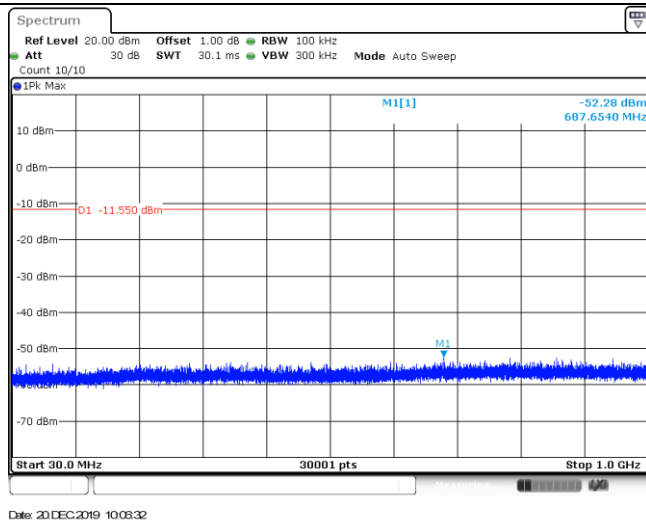
CH06
1GHz~26GHz



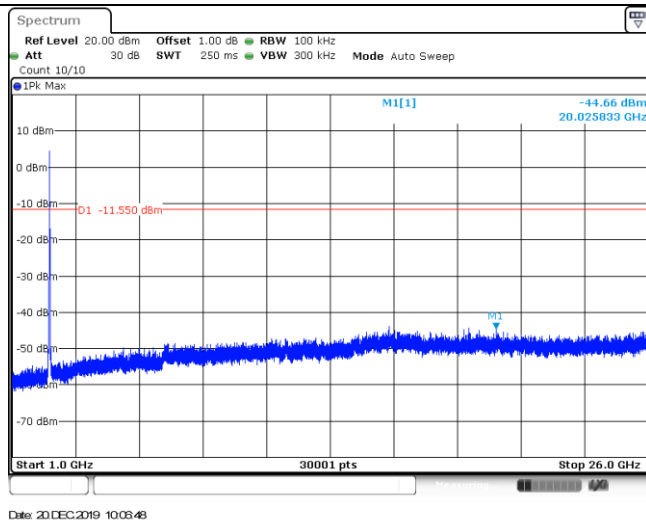
CH11
Reference level



CH11
30MHz~1000MHz



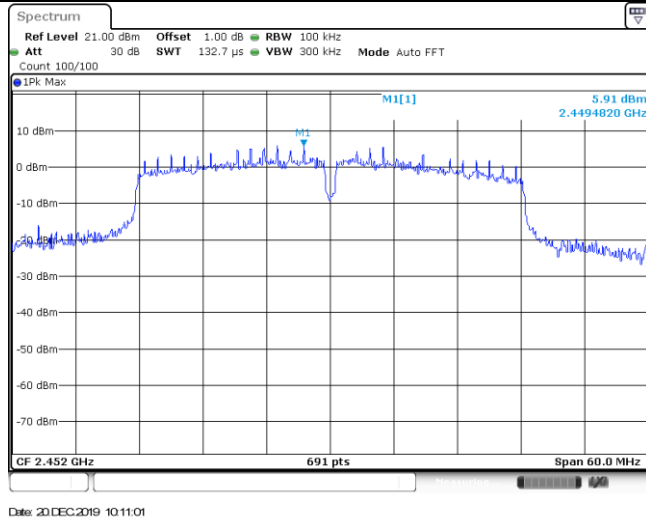
CH11
1GHz~26GHz



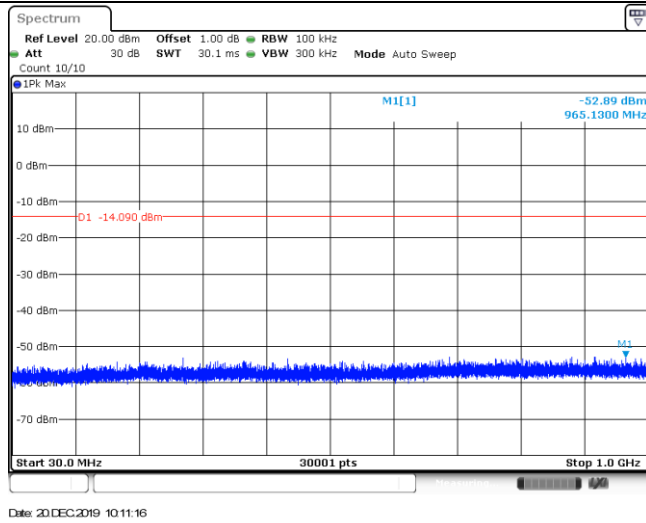
Test Item:	SE	Type:	802.11n(HT40)
<p>CH03 Reference level</p>			
<p>CH03 30MHz~1000MHz</p>			
<p>CH03 1GHz~26GHz</p>			

<p>CH06 Reference level</p>	
<p>CH06 30MHz~1000MHz</p>	
<p>CH06 1GHz~26GHz</p>	

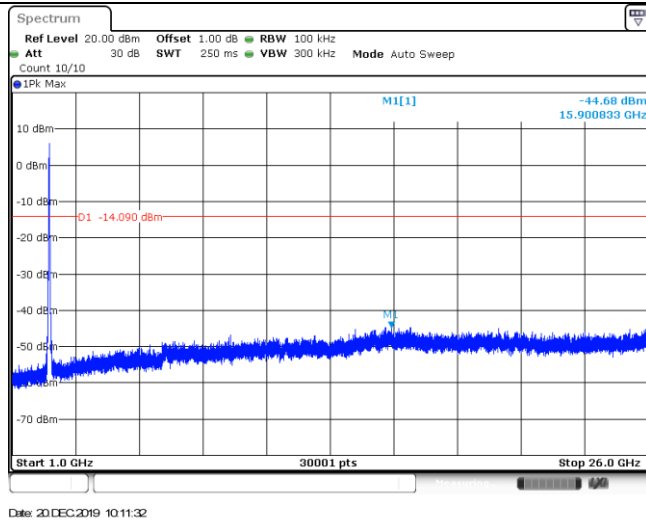
CH09
Reference level



CH09
30MHz~1000MHz



CH09
1GHz~26GHz



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