

# APPENDIX REPORT

Project No.	SHT2002024901EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20020249001	Model No.	MIRAGE
Start test date	2020/3/16	Finish date	2020/3/16
Temperature	25°C	Humidity	50%
Test Engineer	Jinyue.Yan	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

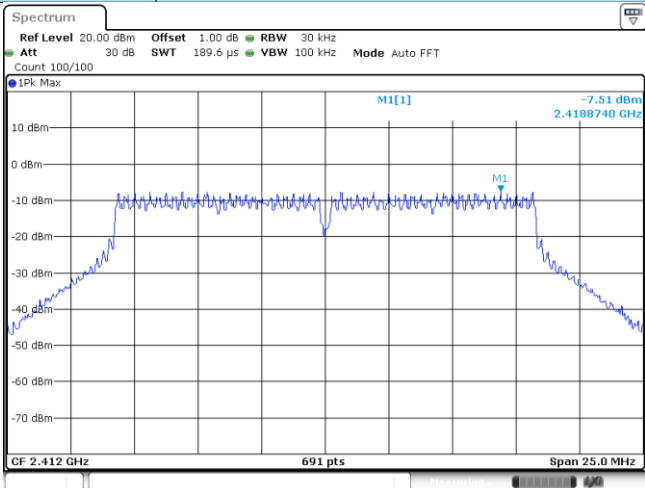
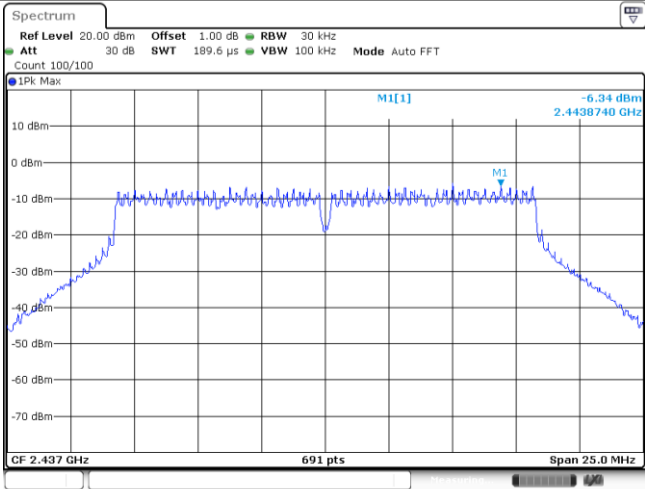
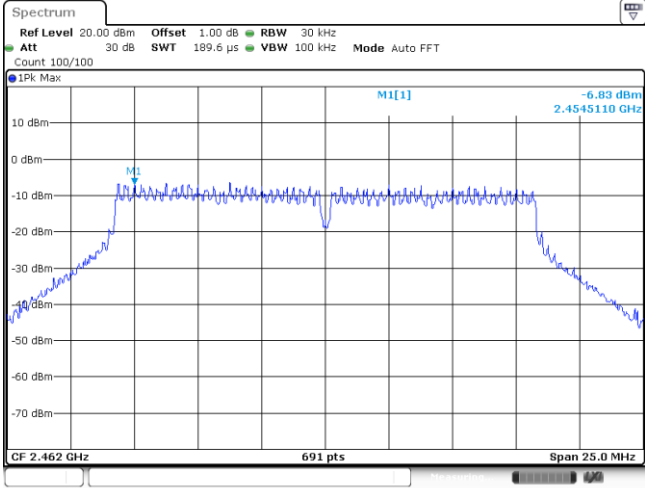
**Appendix A: Conducted Peak Output Power**

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.49	14.11	≤30.00	Pass
	06	16.77	14.35		
	11	16.49	14.06		
802.11g	01	17.03	14.21	≤30.00	Pass
	06	17.73	13.98		
	11	17.55	14.07		
802.11n(HT20)	01	17.32	13.76	≤30.00	Pass
	06	17.64	14.55		
	11	17.45	14.75		
802.11n(HT40)	03	17.38	14.48	≤30.00	Pass
	06	17.84	14.66		
	09	17.65	14.78		

**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	1.46	≤8.00	Pass
	06	0.85		
	11	1.51		
802.11g	01	-7.51	≤8.00	Pass
	06	-6.34		
	11	-6.83		
802.11n(HT20)	01	-7.17	≤8.00	Pass
	06	-6.38		
	11	-6.89		
802.11n(HT40)	03	-9.86	≤8.00	Pass
	06	-0.45		
	09	-9.28		

Type:		802.11 b
CH01	<p>1.46 dBm 2.41139050 GHz</p> <p>CF 2.412 GHz 691 pts Span 16.0 MHz</p> <p>Date: 13MAR2020 15:33:05</p>	
CH06	<p>0.85 dBm 2.4379960 GHz</p> <p>CF 2.437 GHz 691 pts Span 16.0 MHz</p> <p>Date: 13MAR2020 15:33:18</p>	
CH11	<p>1.51 dBm 2.4610040 GHz</p> <p>CF 2.462 GHz 691 pts Span 16.0 MHz</p> <p>Date: 13MAR2020 15:33:02</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 <math>\mu</math>s VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] -7.51 dBm 2.4188740 GHz</p> <p>M1</p> <p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 13MAR2020 15:44:51</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 <math>\mu</math>s VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] -6.34 dBm 2.4438740 GHz</p> <p>M1</p> <p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 16MAR2020 10:08:05</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 <math>\mu</math>s VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] -6.83 dBm 2.4545110 GHz</p> <p>M1</p> <p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 16MAR2020 10:07:36</p>	

Type:		802.11n(HT20)
CH01	<p>                     Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz                      Att 30 dB SWT 189.6 <math>\mu</math>s VBW 100 kHz Mode Auto FFT                      Count 100/100                      1Pk Max                      M1[1] -7.17 dBm                      2.4169930 GHz                      CF 2.412 GHz 691 pts Span 25.0 MHz                      Date: 16/MAR/2020 10:09:50                 </p>	
CH06	<p>                     Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz                      Att 30 dB SWT 189.6 <math>\mu</math>s VBW 100 kHz Mode Auto FFT                      Count 100/100                      1Pk Max                      M1[1] -6.38 dBm                      2.4419930 GHz                      CF 2.437 GHz 691 pts Span 25.0 MHz                      Date: 16/MAR/2020 10:11:58                 </p>	
CH11	<p>                     Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz                      Att 30 dB SWT 189.6 <math>\mu</math>s VBW 100 kHz Mode Auto FFT                      Count 100/100                      1Pk Max                      M1[1] -6.89 dBm                      2.4570070 GHz                      CF 2.462 GHz 691 pts Span 25.0 MHz                      Date: 16/MAR/2020 10:13:37                 </p>	

Type:		802.11n(HT40)
CH03	<p>                     Spectrum                      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                      1Pk Max                      M1                      -9.86 dBm                      2.4095040 GHz                      CF 2.422 GHz 691 pts Span 55.0 MHz                      Date: 16/MAR/2020 10:17:14                 </p>	
CH06	<p>                     Spectrum                      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                      1Pk Max                      M1                      -0.45 dBm                      2.4370000 GHz                      CF 2.437 GHz 691 pts Span 55.0 MHz                      Date: 16/MAR/2020 10:22:03                 </p>	
CH09	<p>                     Spectrum                      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                      1Pk Max                      M1                      -9.28 dBm                      2.4495330 GHz                      CF 2.452 GHz 691 pts Span 55.0 MHz                      Date: 16/MAR/2020 10:23:55                 </p>	

**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.10	≥0.5	Pass
	06	8.16		
	11	8.58		
802.11g	01	16.41	≥0.5	Pass
	06	16.41		
	11	16.38		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.79		
	11	17.70		
802.11n(HT40)	03	35.64	≥0.5	Pass
	06	27.66		
	09	35.28		



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                      1Pk View                 </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>-1.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41251 GHz</td> <td>5.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.1 MHz</td> <td>0.28 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13MAR2020 15:32:25</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40795 GHz	-1.06 dBm			M2		1	2.41251 GHz	5.27 dBm			D3	M1	1	8.1 MHz	0.28 dB		
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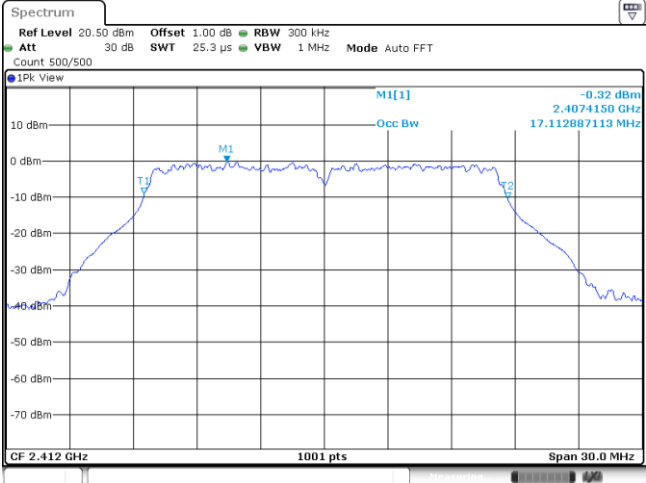
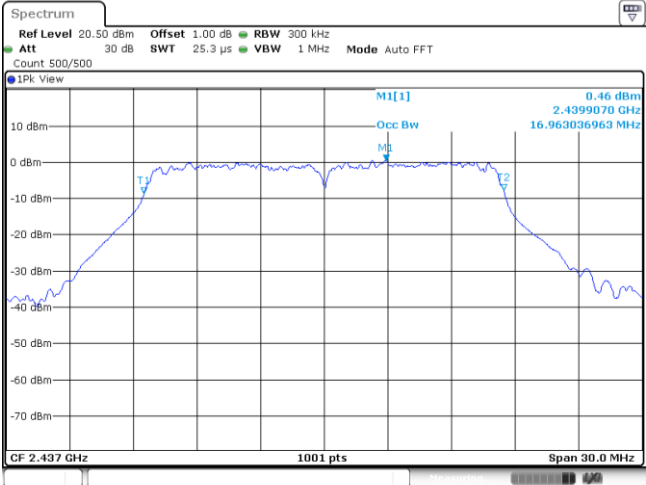
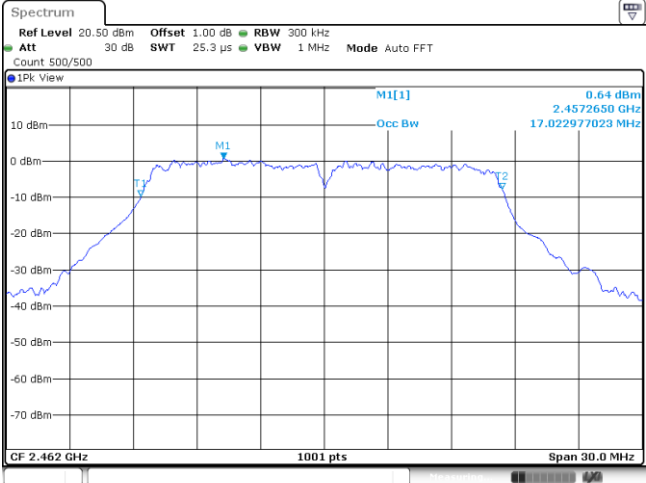
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D3	M1	1	17.7 MHz	-1.34 dB																										

Type:	802.11n(HT40)																												
CH03	<p>Spectrum</p> <p>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>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm</p> <p>M1[1] -11.89 dBm 2.4041800 GHz M2[1] -5.05 dBm 2.4107200 GHz</p> <p>D1 -11.049 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>2.40418 GHz</td> <td>-11.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41072 GHz</td> <td>-5.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>35.64 MHz</td> <td>0.50 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/MAR/2020 10:16:49</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40418 GHz	-11.89 dBm			M2		1	2.41072 GHz	-5.05 dBm			D3	M1	1	35.64 MHz	0.50 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40418 GHz	-11.89 dBm																									
M2		1	2.41072 GHz	-5.05 dBm																									
D3	M1	1	35.64 MHz	0.50 dB																									
CH06	<p>Spectrum</p> <p>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>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm</p> <p>M1[1] -6.20 dBm 2.4244600 GHz M2[1] -0.17 dBm 2.4370000 GHz</p> <p>D1 -6.171 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>2.42446 GHz</td> <td>-6.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.437 GHz</td> <td>-0.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>27.66 MHz</td> <td>-4.36 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/MAR/2020 10:21:20</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42446 GHz	-6.20 dBm			M2		1	2.437 GHz	-0.17 dBm			D3	M1	1	27.66 MHz	-4.36 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.42446 GHz	-6.20 dBm																									
M2		1	2.437 GHz	-0.17 dBm																									
D3	M1	1	27.66 MHz	-4.36 dB																									
CH09	<p>Spectrum</p> <p>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>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm</p> <p>M1[1] -12.76 dBm 2.4343600 GHz M2[1] -4.59 dBm 2.4494800 GHz</p> <p>D1 -10.595 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>2.43436 GHz</td> <td>-12.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.44948 GHz</td> <td>-4.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>35.28 MHz</td> <td>-0.61 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/MAR/2020 10:23:34</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43436 GHz	-12.76 dBm			M2		1	2.44948 GHz	-4.59 dBm			D3	M1	1	35.28 MHz	-0.61 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43436 GHz	-12.76 dBm																									
M2		1	2.44948 GHz	-4.59 dBm																									
D3	M1	1	35.28 MHz	-0.61 dB																									

**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.28	-	Pass
	06	13.34		
	11	13.40		
802.11g	01	17.11	-	Pass
	06	16.96		
	11	17.02		
802.11n(HT20)	01	18.01	-	Pass
	06	18.13		
	11	17.95		
802.11n(HT40)	03	36.38	-	Pass
	06	36.26		
	09	36.20		

Type:		802.11 b
CH01	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 <math>\mu</math>s VBW 1 MHz Mode Auto FFT                      Count 500/500                      1Pk View                      M1[1] 5.38 dBm                      2.4125090 GHz                      13.276723277 MHz                      Occ Bw                      T1 T2                      CF 2.412 GHz 1001 pts Span 30.0 MHz                      Date: 13MAR200 15:32:54                 </p>	
CH06	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 <math>\mu</math>s VBW 1 MHz Mode Auto FFT                      Count 500/500                      1Pk View                      M1[1] 5.67 dBm                      2.4375090 GHz                      13.336663337 MHz                      Occ Bw                      T1 T2                      CF 2.437 GHz 1001 pts Span 30.0 MHz                      Date: 13MAR200 15:33:07                 </p>	
CH11	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 <math>\mu</math>s VBW 1 MHz Mode Auto FFT                      Count 500/500                      1Pk View                      M1[1] 5.27 dBm                      2.4614910 GHz                      13.396603397 MHz                      Occ Bw                      T1 T2                      CF 2.462 GHz 1001 pts Span 30.0 MHz                      Date: 13MAR200 15:37:42                 </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] -0.32 dBm 2.4074150 GHz Occ Bw 17.112887113 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13MAR2020 15:44:39</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] 0.46 dBm 2.4399070 GHz Occ Bw 16.963036963 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 16MAR2020 10:05:53</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] 0.64 dBm 2.4572650 GHz Occ Bw 17.022977023 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 16MAR2020 10:07:23</p>	

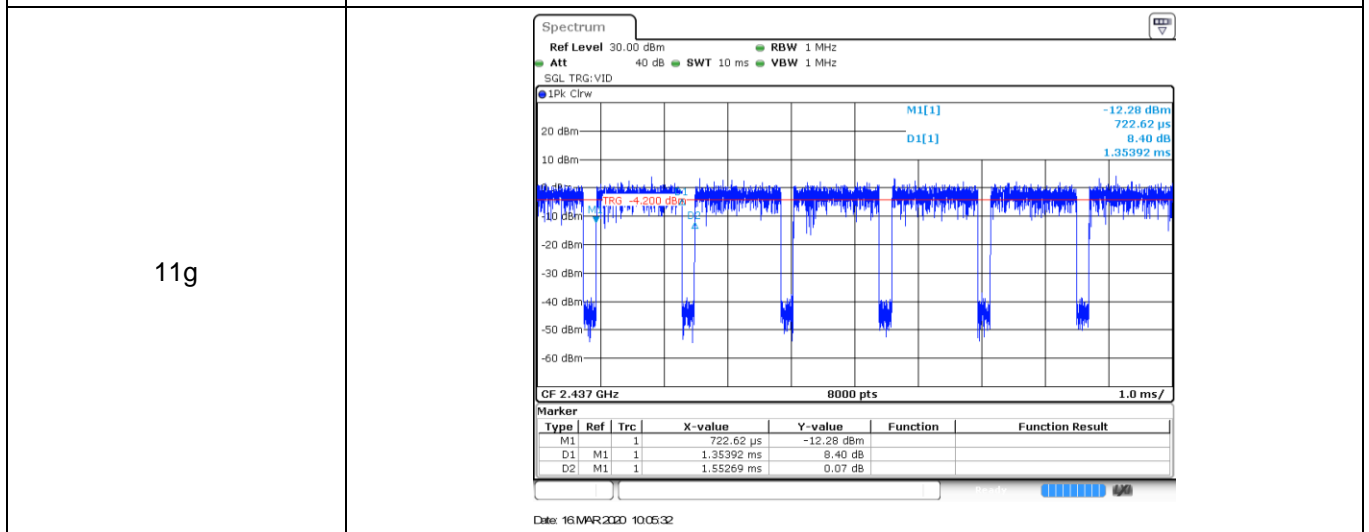
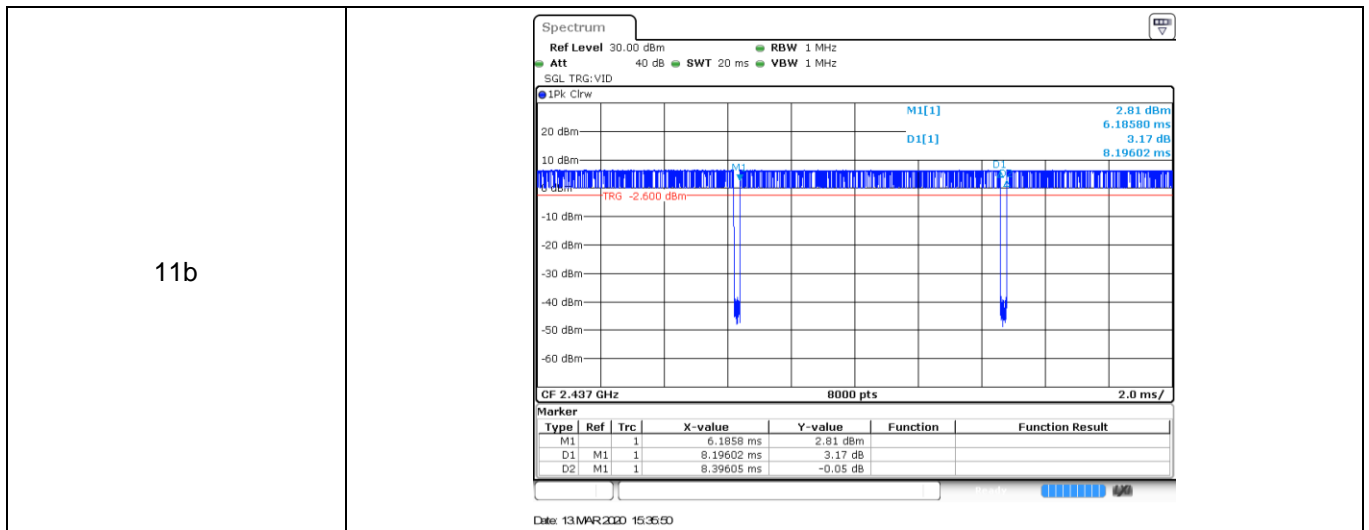
Type:		802.11n(HT20)
CH01	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      Count 500/500                      1Pk View                      M1[1] -0.36 dBm                      2.4073850 GHz                      Occ Bw 18.011988012 MHz                      M1                      CF 2.412 GHz 1001 pts Span 30.0 MHz                      Date: 16MAR2020 10:09:37                 </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] 0.52 dBm                      2.4409860 GHz                      Occ Bw 18.131868132 MHz                      M1                      CF 2.437 GHz 1001 pts Span 30.0 MHz                      Date: 16MAR2020 10:11:46                 </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] 0.26 dBm                      2.4566050 GHz                      Occ Bw 17.952047952 MHz                      M1                      CF 2.462 GHz 1001 pts Span 30.0 MHz                      Date: 16MAR2020 10:13:25                 </p>	



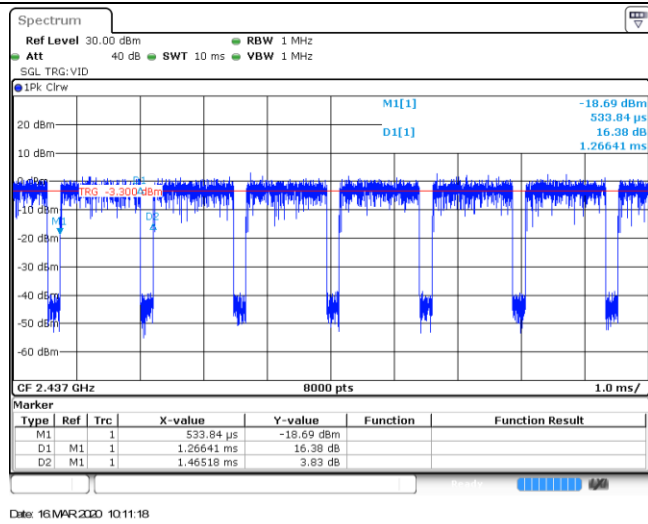
Type:		802.11n(HT40)
CH03	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz            Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep            Count 500/500            1Pk View            0.38 dBm            2.4308110 GHz            36.383616384 MHz            CF 2.422 GHz 1001 pts Span 60.0 MHz            Date: 16/MAR/2020 10:16:57</p>	
CH06	<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            1Pk View            2.81 dBm            2.4369400 GHz            36.263736264 MHz            CF 2.437 GHz 1001 pts Span 60.0 MHz            Date: 16/MAR/2020 10:21:28</p>	
CH09	<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            1Pk View            0.93 dBm            2.4637480 GHz            36.203796204 MHz            CF 2.452 GHz 1001 pts Span 60.0 MHz            Date: 16/MAR/2020 10:23:42</p>	

### Appendix E: Duty Cycle

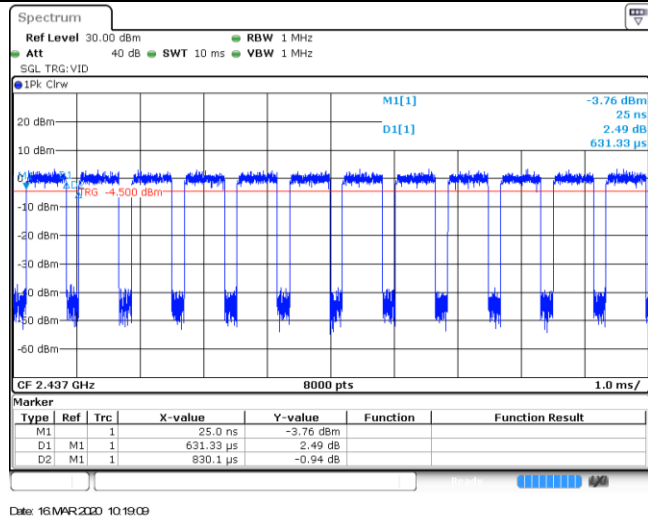
Modulation Type	Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
11b	2437	8.20	8.40	97.6%	0.1
11g	2437	1.35	1.55	87.1%	0.7
11n20	2437	1.27	1.47	86.4%	0.8
11n40	2437	0.63	0.83	75.9%	1.6



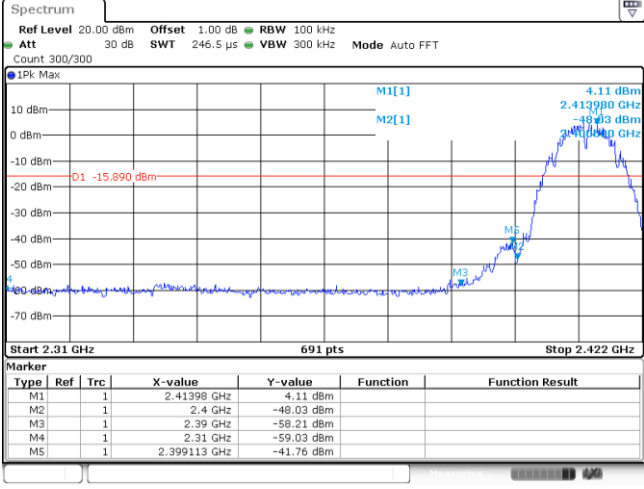
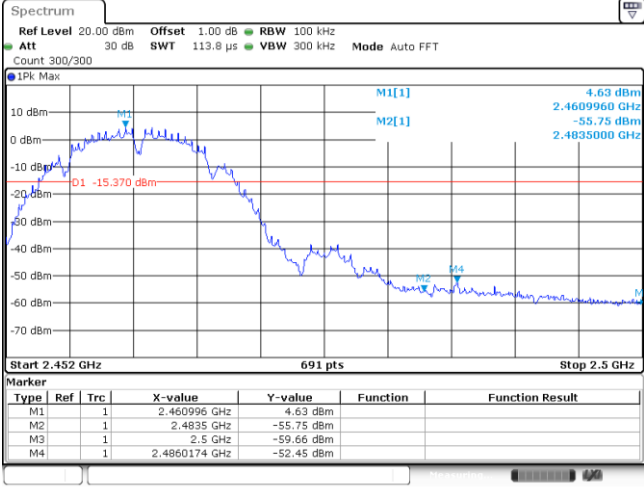
11n20

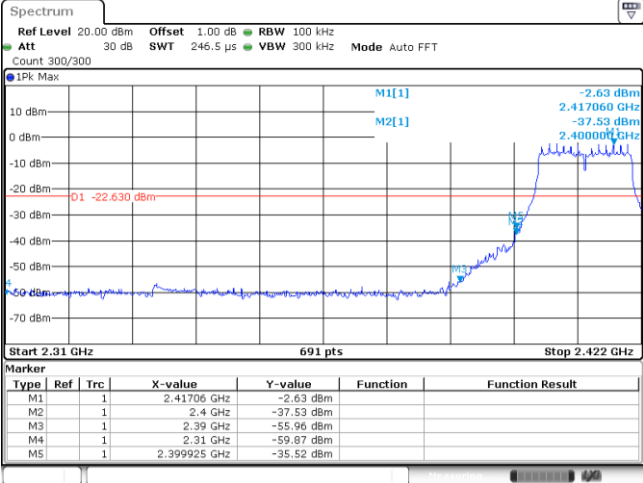
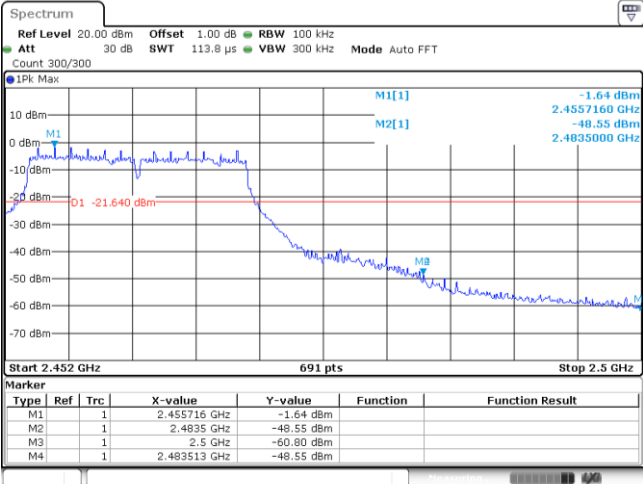


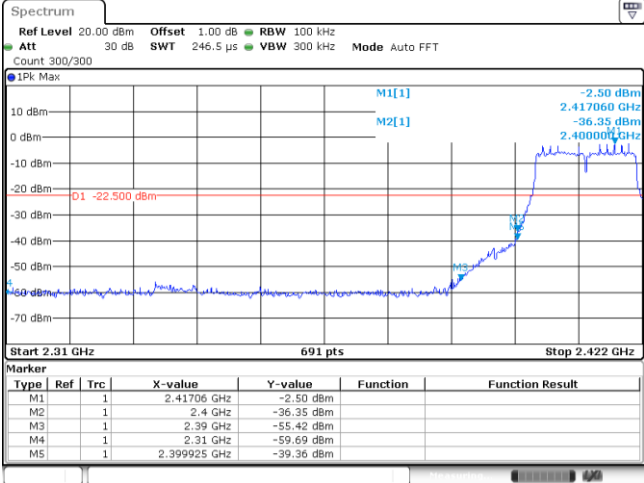
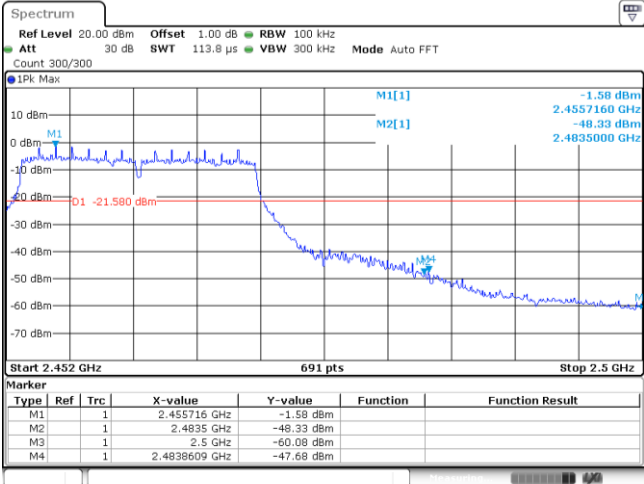
11n40

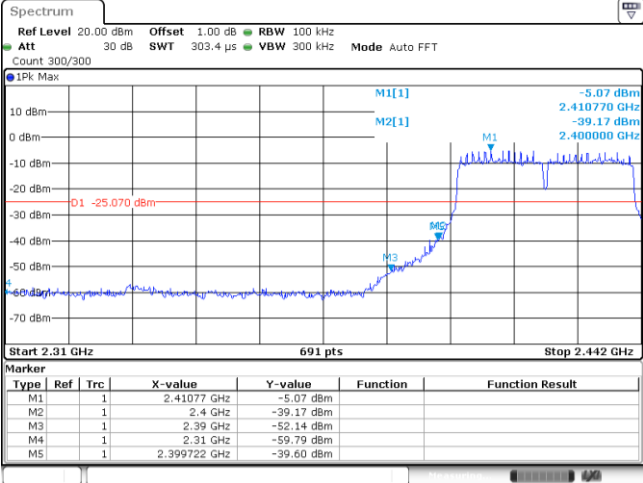
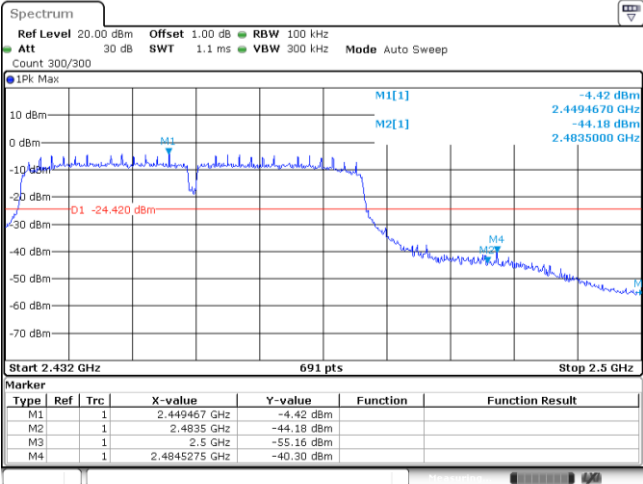


### Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p><b>Marker</b></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>2.41398 GHz</td> <td>-4.11 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399113 GHz</td> <td>-41.76 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13MAR2020 15:33:15</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41398 GHz	-4.11 dBm			M2	1		2.4 GHz	-48.03 dBm			M3	1		2.39 GHz	-58.21 dBm			M4	1		2.31 GHz	-59.03 dBm			M5	1		2.399113 GHz	-41.76 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41398 GHz	-4.11 dBm																																									
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CH11	 <p><b>Marker</b></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>-4.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-55.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-59.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4860174 GHz</td> <td>-52.45 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13MAR2020 15:40:03</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.460996 GHz	-4.63 dBm			M2	1		2.4835 GHz	-55.75 dBm			M3	1		2.5 GHz	-59.66 dBm			M4	1		2.4860174 GHz	-52.45 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.460996 GHz	-4.63 dBm																																									
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M3	1		2.5 GHz	-59.66 dBm																																									
M4	1		2.4860174 GHz	-52.45 dBm																																									

Test Item:	Bandedge	Type:	802.11 g																																										
CH01	 <p><b>Spectrum</b>                      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>M1[1] -2.63 dBm                      2.417060 GHz                      M2[1] -37.53 dBm                      2.400000 GHz</p> <p>D1 -22.630 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></td> <td>1</td> <td>2.41706 GHz</td> <td>-2.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-37.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-55.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-59.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.399925 GHz</td> <td>-35.52 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 MAR 2020 15:45:02</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41706 GHz	-2.63 dBm			M2		1	2.4 GHz	-37.53 dBm			M3		1	2.39 GHz	-55.96 dBm			M4		1	2.31 GHz	-59.87 dBm			M5		1	2.399925 GHz	-35.52 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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M2		1	2.4 GHz	-37.53 dBm																																									
M3		1	2.39 GHz	-55.96 dBm																																									
M4		1	2.31 GHz	-59.87 dBm																																									
M5		1	2.399925 GHz	-35.52 dBm																																									
CH11	 <p><b>Spectrum</b>                      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>M1[1] -1.64 dBm                      2.4557160 GHz                      M2[1] -48.55 dBm                      2.4835000 GHz</p> <p>D1 -21.640 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></td> <td>1</td> <td>2.455716 GHz</td> <td>-1.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4835 GHz</td> <td>-48.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.5 GHz</td> <td>-60.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.483513 GHz</td> <td>-48.55 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 MAR 2020 10:07:46</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.455716 GHz	-1.64 dBm			M2		1	2.4835 GHz	-48.55 dBm			M3		1	2.5 GHz	-60.80 dBm			M4		1	2.483513 GHz	-48.55 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.455716 GHz	-1.64 dBm																																									
M2		1	2.4835 GHz	-48.55 dBm																																									
M3		1	2.5 GHz	-60.80 dBm																																									
M4		1	2.483513 GHz	-48.55 dBm																																									

Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	 <p>Spectrum</p> <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>1Pk Max</p> <p>M1[1] -2.50 dBm          2.417060 GHz          M2[1] -36.35 dBm          2.400000 GHz</p> <p>O1 -22.500 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></td> <td>1</td> <td>2.41706 GHz</td> <td>-2.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-36.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-55.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-59.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.399925 GHz</td> <td>-39.36 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16MAR2020 10:10:04</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41706 GHz	-2.50 dBm			M2		1	2.4 GHz	-36.35 dBm			M3		1	2.39 GHz	-55.42 dBm			M4		1	2.31 GHz	-59.69 dBm			M5		1	2.399925 GHz	-39.36 dBm		
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M2		1	2.4 GHz	-36.35 dBm																																									
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M5		1	2.399925 GHz	-39.36 dBm																																									
CH11	 <p>Spectrum</p> <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>1Pk Max</p> <p>M1[1] -1.58 dBm          2.455716 GHz          M2[1] -48.33 dBm          2.4835000 GHz</p> <p>O1 -21.580 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></td> <td>1</td> <td>2.455716 GHz</td> <td>-1.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4835 GHz</td> <td>-48.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.5 GHz</td> <td>-60.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.4838609 GHz</td> <td>-47.68 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16MAR2020 10:13:47</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.455716 GHz	-1.58 dBm			M2		1	2.4835 GHz	-48.33 dBm			M3		1	2.5 GHz	-60.08 dBm			M4		1	2.4838609 GHz	-47.68 dBm									
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M3		1	2.5 GHz	-60.08 dBm																																									
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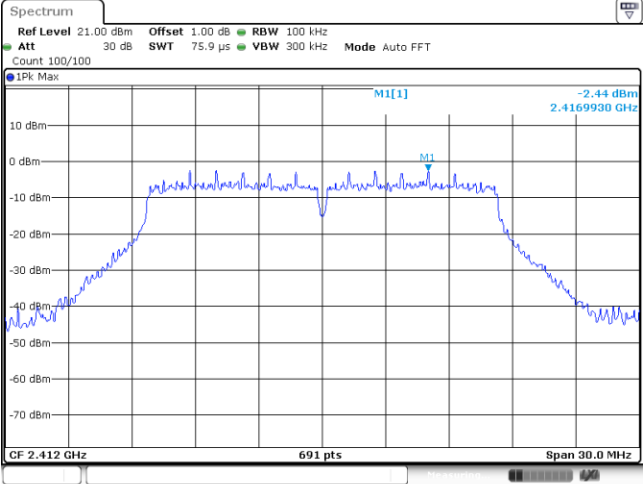
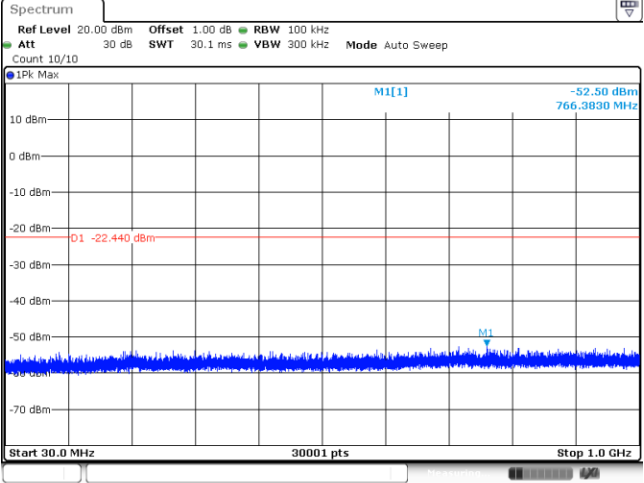
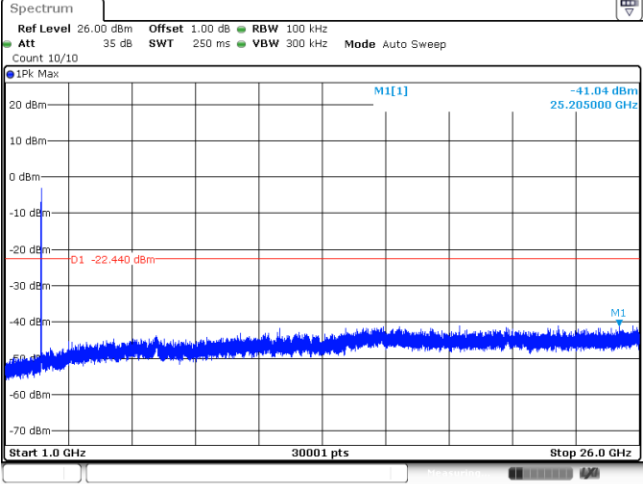
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03		 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 303.4 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>1Pk Max</p> <p>M1[1] -5.07 dBm 2.410770 GHz M2[1] -39.17 dBm 2.400000 GHz</p> <p>O1 -25.070 dBm</p> <p>M3 M4 M5</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>2.41077 GHz</td> <td>-5.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-39.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-52.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399722 GHz</td> <td>-39.60 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/MAR/2020 10:17:24</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41077 GHz	-5.07 dBm			M2	1		2.4 GHz	-39.17 dBm			M3	1		2.39 GHz	-52.14 dBm			M4	1		2.31 GHz	-59.79 dBm			M5	1		2.399722 GHz	-39.60 dBm			
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M4	1		2.31 GHz	-59.79 dBm																																									
M5	1		2.399722 GHz	-39.60 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>1Pk Max</p> <p>M1[1] -4.42 dBm 2.4494670 GHz M2[1] -44.18 dBm 2.4835000 GHz</p> <p>O1 -24.420 dBm</p> <p>M3 M4</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>2.449467 GHz</td> <td>-4.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-44.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-55.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4845275 GHz</td> <td>-40.30 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/MAR/2020 10:24:04</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.449467 GHz	-4.42 dBm			M2	1		2.4835 GHz	-44.18 dBm			M3	1		2.5 GHz	-55.16 dBm			M4	1		2.4845275 GHz	-40.30 dBm										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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Test Item:	SE	Type:	802.11b
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			



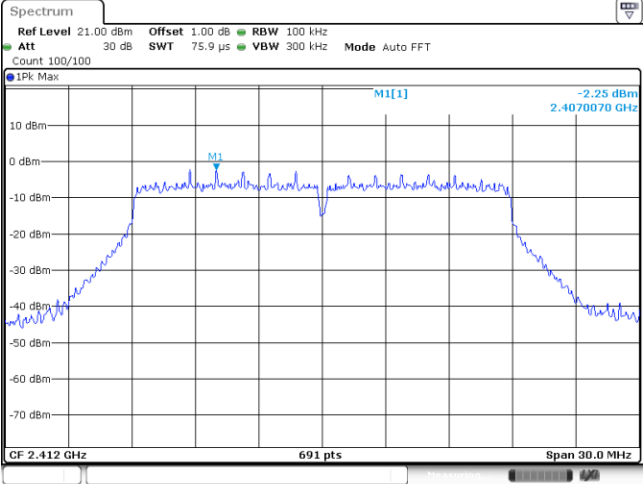
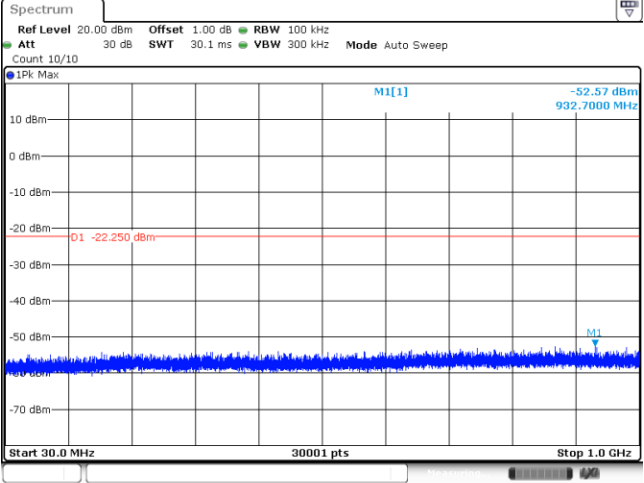
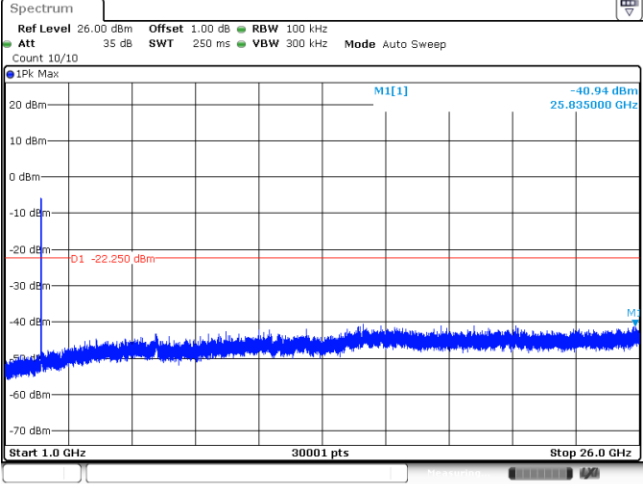
<p>CH06 Reference level</p>	
<p>CH06 30MHz~1000MHz</p>	
<p>CH06 1GHz~26GHz</p>	

<p>CH11 Reference level</p>	
<p>CH11 30MHz~1000MHz</p>	
<p>CH11 1GHz~26GHz</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 <math>\mu</math>s VBW 300 kHz Mode Auto FFT Count 100/100 CF 2.412 GHz 691 pts Span 30.0 MHz Date: 13 MAR 2020 15:45:08</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 Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 MAR 2020 15:45:23</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 MAR 2020 15:45:39</p>	

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

<p>CH11 Reference level</p>	
<p>CH11 30MHz~1000MHz</p>	
<p>CH11 1GHz~26GHz</p>	

Test Item:	SE	Type:	802.11n(HT20)
<p>CH01 Reference level</p>		 <p>Date: 16 MAR 2020 10:10:11</p>	
<p>CH01 30MHz~1000MHz</p>		 <p>Date: 16 MAR 2020 10:10:26</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Date: 16 MAR 2020 10:10:42</p>	

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

<p>CH11 Reference level</p>	
<p>CH11 30MHz~1000MHz</p>	
<p>CH11 1GHz~26GHz</p>	



Test Item:	SE	Type:	802.11n(HT40)
<p>CH03 Reference level</p>		<p>Spectrum                      Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz                      Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT                      Count 100/100                      IPk Max                      M1[1] -5.07 dBm                      2.4107120 GHz                      CF 2.422 GHz 691 pts Span 60.0 MHz                      Date: 16 MAR 2020 10:17:33</p>	
<p>CH03 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] -52.39 dBm                      875.9900 MHz                      D1 -25.070 dBm                      Start 30.0 MHz 30001 pts Stop 1.0 GHz                      Date: 16 MAR 2020 10:17:48</p>	
<p>CH03 1GHz~26GHz</p>		<p>Spectrum                      Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz                      Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep                      Count 10/10                      IPk Max                      M1[1] -40.99 dBm                      15.955893 GHz                      D1 -25.070 dBm                      Start 1.0 GHz 30001 pts Stop 26.0 GHz                      Date: 16 MAR 2020 10:18:04</p>	

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

<p>CH09 Reference level</p>	
<p>CH09 30MHz~1000MHz</p>	
<p>CH09 1GHz~26GHz</p>	

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