

# APPENDIX REPORT

Project No.	SHT2005010201EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20050102001	Model No.	L14WB2BK
Start test date	2020/6/1	Finish date	2020/6/1
Temperature	25°C	Humidity	50%
Test Engineer	JiongSheng.Feng	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**

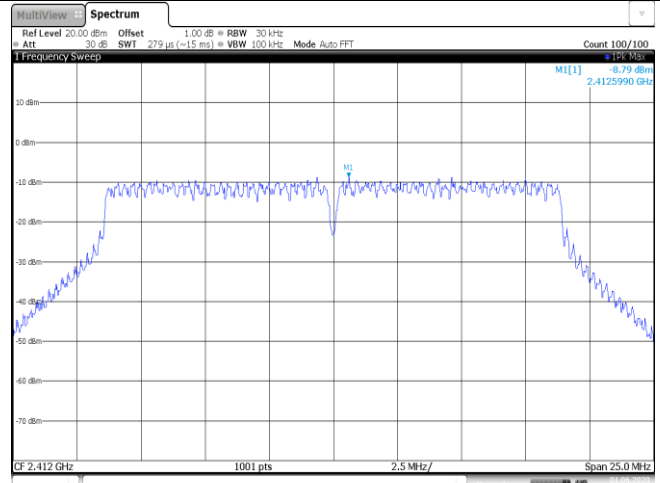
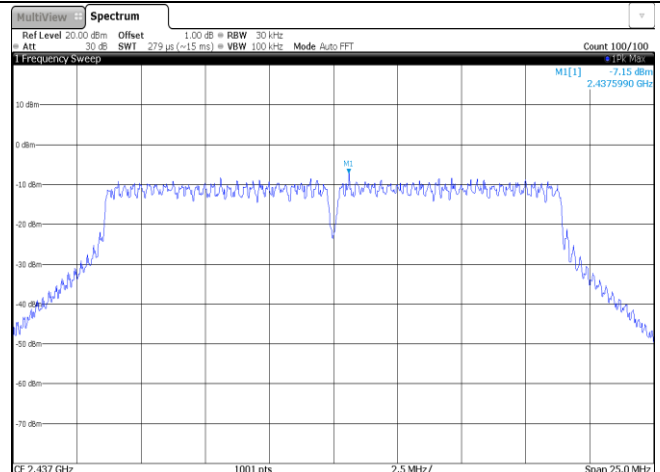
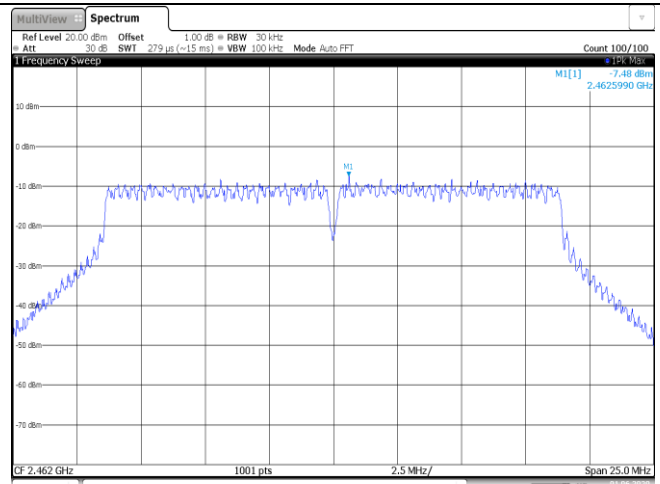
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	17.19	14.56	≤30.00	Pass
	06	17.00	14.51		
	11	16.87	14.32		
802.11g	01	17.43	14.41	≤30.00	Pass
	06	17.68	14.62		
	11	17.37	14.37		
802.11n(HT20)	01	17.58	14.46	≤30.00	Pass
	06	17.63	14.64		
	11	17.48	14.56		
802.11n(HT40)	03	16.56	13.57	≤30.00	Pass
	06	16.40	13.52		
	09	16.40	13.51		

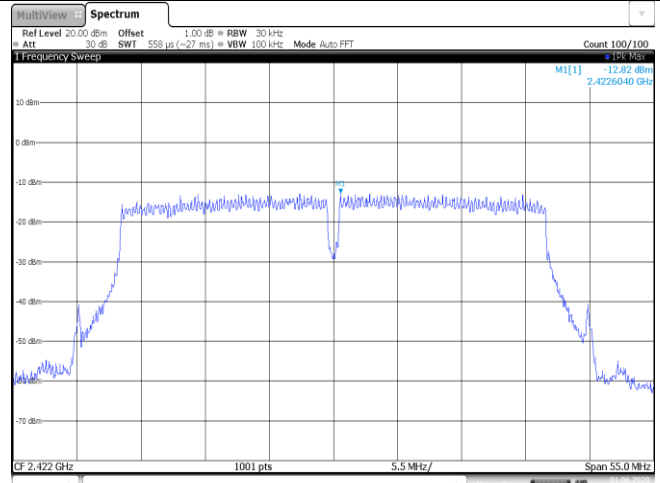
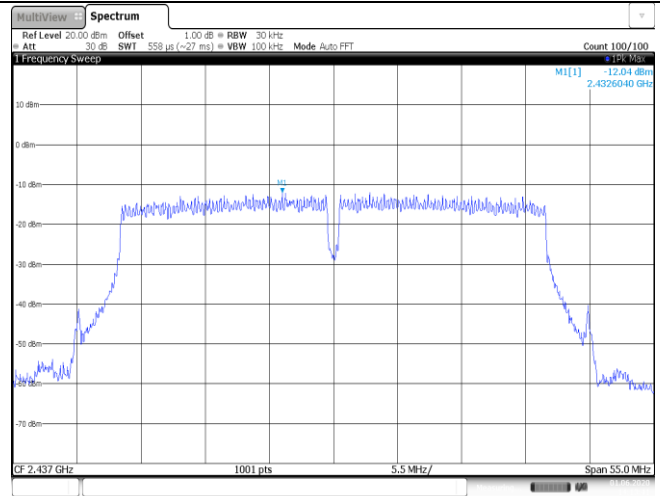
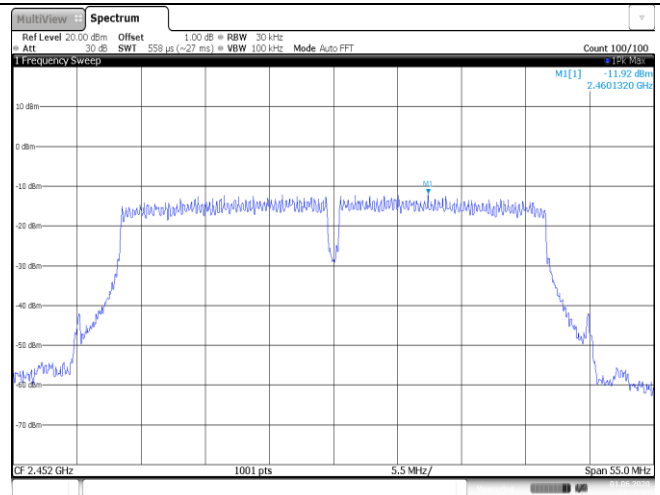
**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-1.63	≤8.00	Pass
	06	-1.44		
	11	-1.32		
802.11g	01	-8.30	≤8.00	Pass
	06	-7.59		
	11	-7.95		
802.11n(HT20)	01	-8.79	≤8.00	Pass
	06	-7.15		
	11	-7.48		
802.11n(HT40)	03	-12.82	≤8.00	Pass
	06	-12.04		
	09	-11.92		

Type:	802.11 b
CH01	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz          Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep          Count 100/100          MI[1] 1.63 dBm          2.4112810 GHz          CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz          Date: 1.JUN.2020 13:38:37</p>
CH06	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz          Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep          Count 100/100          MI[1] 1.44 dBm          2.4376870 GHz          CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz          Date: 1.JUN.2020 13:42:40</p>
CH11	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz          Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep          Count 100/100          MI[1] 1.32 dBm          2.4612810 GHz          CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz          Date: 1.JUN.2020 13:47:18</p>

Type:	802.11 g
CH01	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz          Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT          Count 100/100          1 Frequency Sweep          MI[1] 8.30 dBm          2.4142230 GHz          CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz          Date: 1.JUL.2020 13:50:53</p>
CH06	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz          Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT          Count 100/100          1 Frequency Sweep          MI[1] 7.59 dBm          2.4426190 GHz          CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz          Date: 1.JUL.2020 13:53:37</p>
CH11	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz          Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT          Count 100/100          1 Frequency Sweep          MI[1] 7.95 dBm          2.4601020 GHz          CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz          Date: 1.JUL.2020 13:56:36</p>

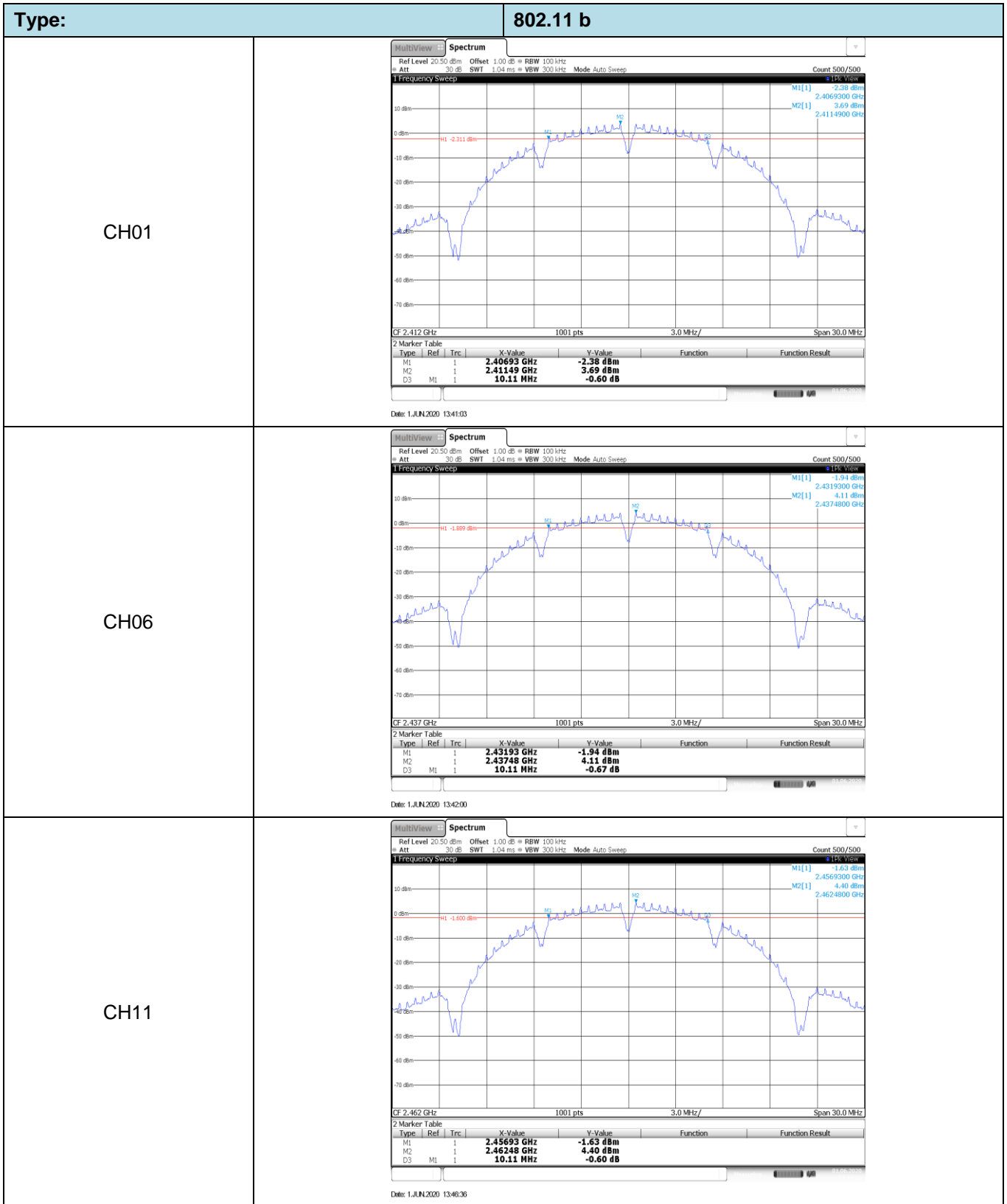
Type:	802.11n(HT20)
CH01	 <p>                     Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz                      Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100                      MI[1] -8.79 dBm 2.4125990 GHz                      CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 1.JUL.2020 13:59:36                 </p>
CH06	 <p>                     Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz                      Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100                      MI[1] -7.15 dBm 2.4375990 GHz                      CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 1.JUL.2020 14:03:29                 </p>
CH11	 <p>                     Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz                      Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100                      MI[1] -7.48 dBm 2.4625990 GHz                      CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 1.JUL.2020 14:06:05                 </p>

Type:	802.11n(HT40)	
CH03	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT</p> <p>Count 100/100 MI[1] -12.82 dBm 2.4226040 GHz</p> <p>CF 2.422 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz</p> <p>Date: 1.JUN.2020 14:09:52</p>	
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT</p> <p>Count 100/100 MI[1] -12.04 dBm 2.4326040 GHz</p> <p>CF 2.437 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz</p> <p>Date: 1.JUN.2020 14:13:41</p>	
CH09	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT</p> <p>Count 100/100 MI[1] -11.92 dBm 2.4601320 GHz</p> <p>CF 2.452 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz</p> <p>Date: 1.JUN.2020 14:17:42</p>	

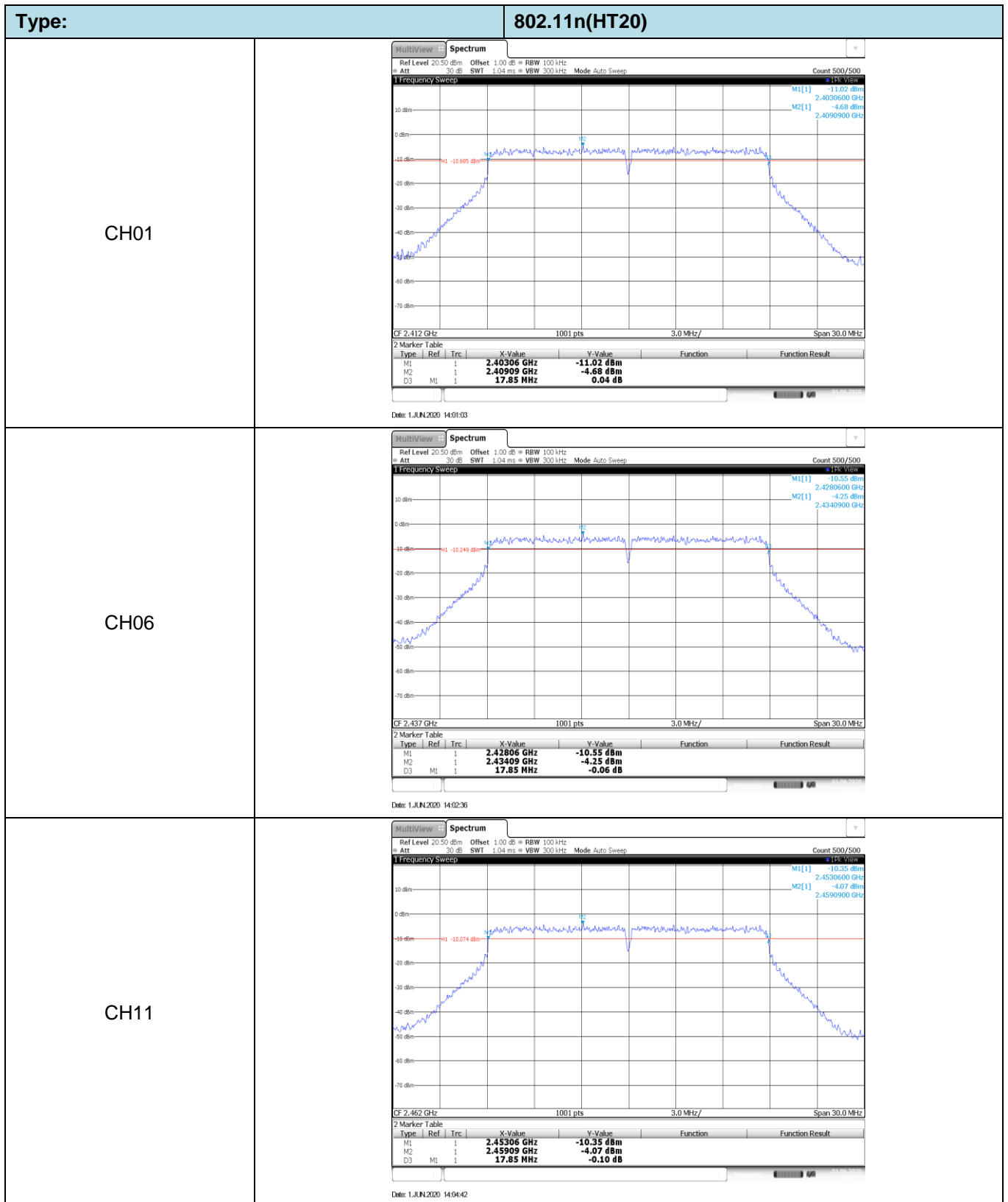
**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	10.11	≥0.5	Pass
	06	10.11		
	11	10.11		
802.11g	01	16.65	≥0.5	Pass
	06	16.65		
	11	16.65		
802.11n(HT20)	01	17.85	≥0.5	Pass
	06	17.85		
	11	17.85		
802.11n(HT40)	03	36.54	≥0.5	Pass
	06	36.54		
	09	36.54		





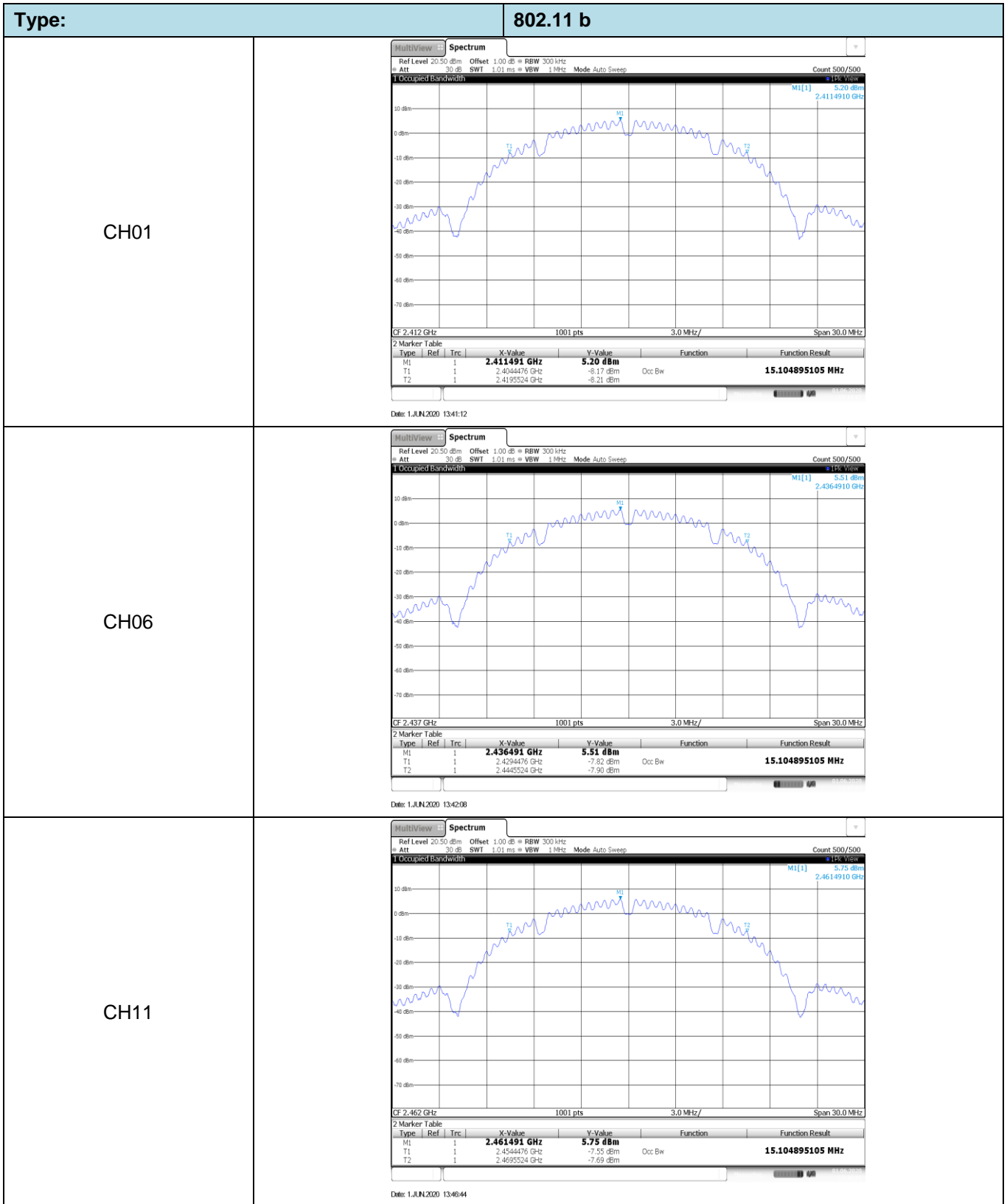
Type:	802.11 g																												
CH01	<p><b>Marker Table</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40366 GHz</td> <td>-11.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41611 GHz</td> <td>-4.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.65 MHz</td> <td>-1.58 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 13:52:14</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40366 GHz	-11.43 dBm			M2	1		2.41611 GHz	-4.97 dBm			D3	M1	1	16.65 MHz	-1.58 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.40366 GHz	-11.43 dBm																									
M2	1		2.41611 GHz	-4.97 dBm																									
D3	M1	1	16.65 MHz	-1.58 dB																									
CH06	<p><b>Marker Table</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>2.42866 GHz</td> <td>-10.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.44111 GHz</td> <td>-4.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.65 MHz</td> <td>-1.69 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 13:55:09</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.42866 GHz	-10.96 dBm			M2	1		2.44111 GHz	-4.69 dBm			D3	M1	1	16.65 MHz	-1.69 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.42866 GHz	-10.96 dBm																									
M2	1		2.44111 GHz	-4.69 dBm																									
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.45366 GHz	-10.78 dBm																									
M2	1		2.46614 GHz	-4.48 dBm																									
D3	M1	1	16.65 MHz	-1.67 dB																									



Type:	802.11n(HT40)																												
CH03	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <p>20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>GF 2.422 GHz 1001 pts 6.0 MHz/ 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>1</td> <td></td> <td>2.4037 GHz</td> <td>-15.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.42548 GHz</td> <td>-8.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td></td> <td>36.54 MHz</td> <td>0.54 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUL.2020 14:11:51</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4037 GHz	-15.81 dBm			M2	1		2.42548 GHz	-8.80 dBm			D3	M1		36.54 MHz	0.54 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4037 GHz	-15.81 dBm																									
M2	1		2.42548 GHz	-8.80 dBm																									
D3	M1		36.54 MHz	0.54 dB																									
CH06	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <p>20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>GF 2.437 GHz 1001 pts 6.0 MHz/ 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>1</td> <td></td> <td>2.4187 GHz</td> <td>-15.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4292 GHz</td> <td>-8.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td></td> <td>36.54 MHz</td> <td>0.35 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUL.2020 14:12:46</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4187 GHz	-15.42 dBm			M2	1		2.4292 GHz	-8.64 dBm			D3	M1		36.54 MHz	0.35 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4187 GHz	-15.42 dBm																									
M2	1		2.4292 GHz	-8.64 dBm																									
D3	M1		36.54 MHz	0.35 dB																									
CH09	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <p>20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>GF 2.452 GHz 1001 pts 6.0 MHz/ 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>1</td> <td></td> <td>2.4337 GHz</td> <td>-14.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4442 GHz</td> <td>-8.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td></td> <td>36.54 MHz</td> <td>0.16 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUL.2020 14:17:21</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4337 GHz	-14.78 dBm			M2	1		2.4442 GHz	-8.44 dBm			D3	M1		36.54 MHz	0.16 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4337 GHz	-14.78 dBm																									
M2	1		2.4442 GHz	-8.44 dBm																									
D3	M1		36.54 MHz	0.16 dB																									

**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	15.11	-	Pass
	06	15.11		
	11	15.11		
802.11g	01	16.99	-	Pass
	06	16.99		
	11	16.99		
802.11n(HT20)	01	18.01	-	Pass
	06	18.01		
	11	18.01		
802.11n(HT40)	03	36.32	-	Pass
	06	36.32		
	09	36.26		



Type:	802.11 g																												
CH01	<p><b>Spectrum</b></p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz  Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 0.41 dBm 2.4167350 GHz</p> <p>GF 2.412 GHz 1001 pts 3.0 MHz/ 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>1</td> <td></td> <td>2.416735 GHz</td> <td>0.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4033387 GHz</td> <td>-9.22 dBm</td> <td>Occ Bw</td> <td>16.993006993 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4203317 GHz</td> <td>-7.22 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 13:52:22</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.416735 GHz	0.41 dBm			T1	1		2.4033387 GHz	-9.22 dBm	Occ Bw	16.993006993 MHz	T2	1		2.4203317 GHz	-7.22 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.416735 GHz	0.41 dBm																									
T1	1		2.4033387 GHz	-9.22 dBm	Occ Bw	16.993006993 MHz																							
T2	1		2.4203317 GHz	-7.22 dBm																									
CH06	<p><b>Spectrum</b></p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz  Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 0.63 dBm 2.4417350 GHz</p> <p>GF 2.437 GHz 1001 pts 3.0 MHz/ 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>1</td> <td></td> <td>2.441735 GHz</td> <td>0.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4283387 GHz</td> <td>-9.09 dBm</td> <td>Occ Bw</td> <td>16.993006993 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4453317 GHz</td> <td>-6.95 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 13:56:17</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.441735 GHz	0.63 dBm			T1	1		2.4283387 GHz	-9.09 dBm	Occ Bw	16.993006993 MHz	T2	1		2.4453317 GHz	-6.95 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.441735 GHz	0.63 dBm																									
T1	1		2.4283387 GHz	-9.09 dBm	Occ Bw	16.993006993 MHz																							
T2	1		2.4453317 GHz	-6.95 dBm																									
CH11	<p><b>Spectrum</b></p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz  Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 0.87 dBm 2.4667350 GHz</p> <p>GF 2.462 GHz 1001 pts 3.0 MHz/ 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>1</td> <td></td> <td>2.466735 GHz</td> <td>0.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4533387 GHz</td> <td>-8.75 dBm</td> <td>Occ Bw</td> <td>16.993006993 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4703317 GHz</td> <td>-6.78 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 13:56:04</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.466735 GHz	0.87 dBm			T1	1		2.4533387 GHz	-8.75 dBm	Occ Bw	16.993006993 MHz	T2	1		2.4703317 GHz	-6.78 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.466735 GHz	0.87 dBm																									
T1	1		2.4533387 GHz	-8.75 dBm	Occ Bw	16.993006993 MHz																							
T2	1		2.4703317 GHz	-6.78 dBm																									

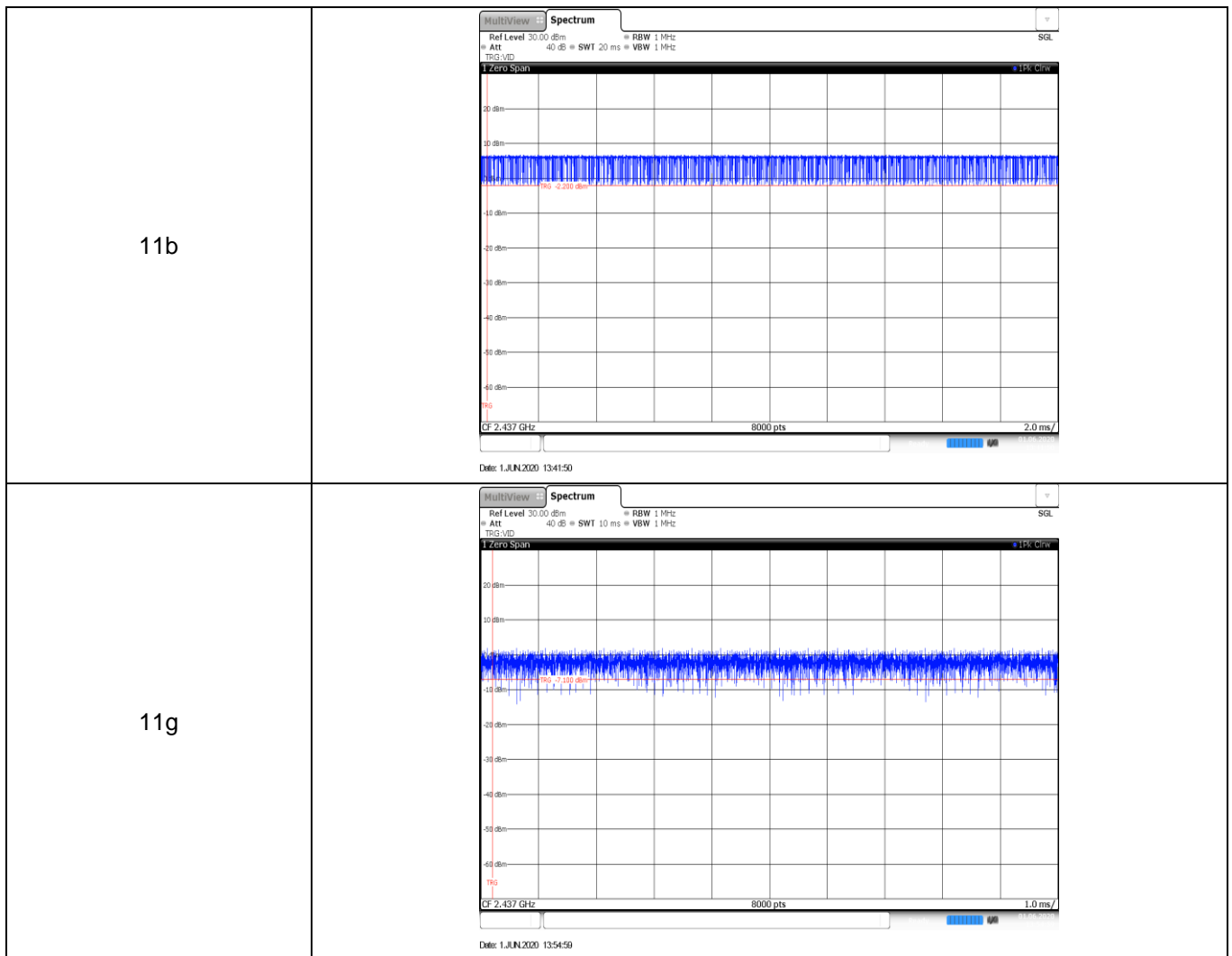
Type:		802.11n(HT20)																												
CH01	<p><b>2 Marker Table</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.407085 GHz</td> <td>0.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4029491 GHz</td> <td>-7.43 dBm</td> <td>Occ Bw</td> <td>18.011988012 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.407961 GHz</td> <td>-7.33 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 14:01:11</p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.407085 GHz	0.19 dBm			T1	1		2.4029491 GHz	-7.43 dBm	Occ Bw	18.011988012 MHz	T2	1		2.407961 GHz	-7.33 dBm		
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CH06	<p><b>2 Marker Table</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>2.437689 GHz</td> <td>0.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4279491 GHz</td> <td>-7.18 dBm</td> <td>Occ Bw</td> <td>18.011988012 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.445961 GHz</td> <td>-7.05 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 14:02:45</p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.437689 GHz	0.53 dBm			T1	1		2.4279491 GHz	-7.18 dBm	Occ Bw	18.011988012 MHz	T2	1		2.445961 GHz	-7.05 dBm		
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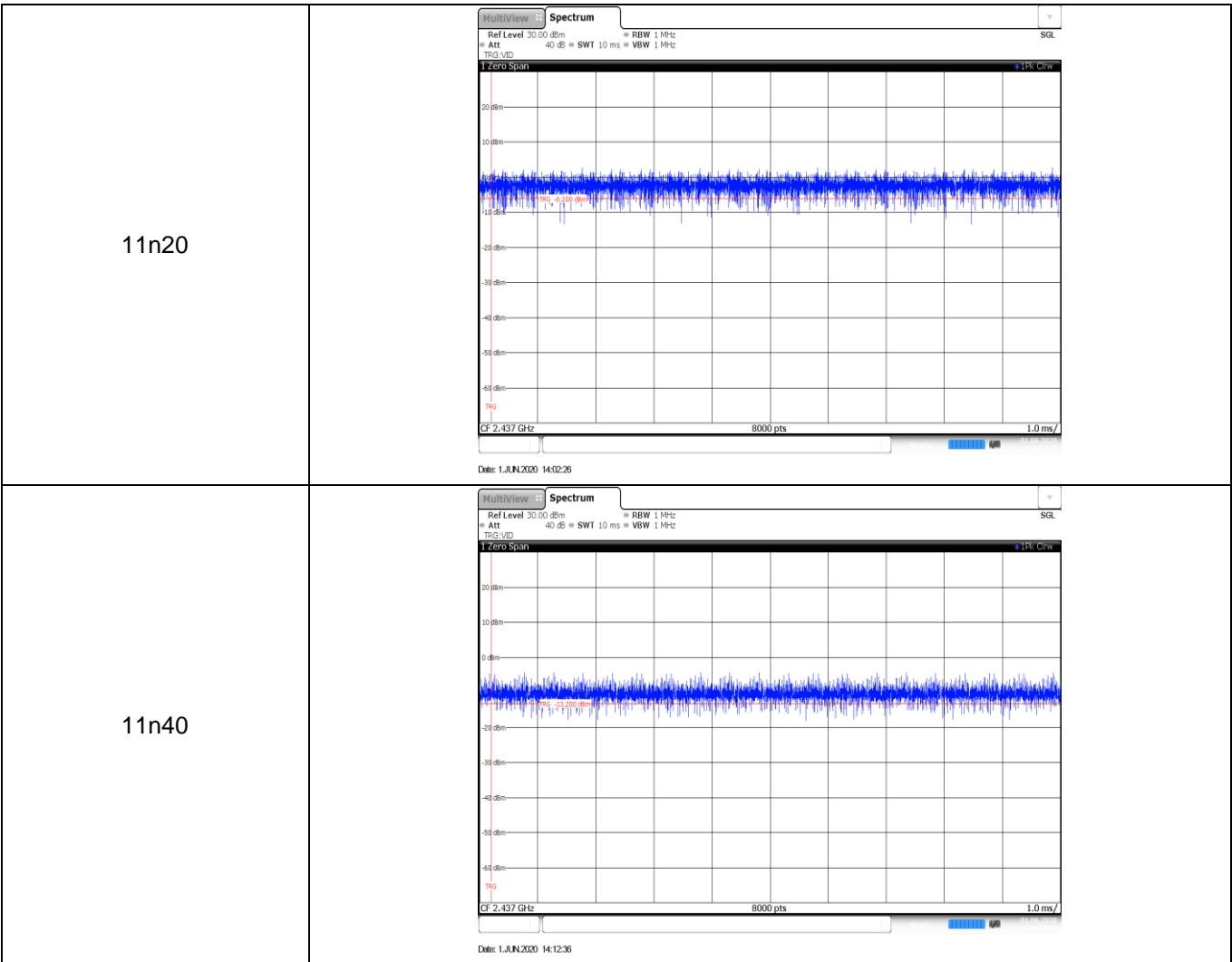


Type:	802.11n(HT40)																												
CH03	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 1.00 dB BW 500 kHz          Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 500/500          1 Occupied Bandwidth M1[1] 1.28 dBm 2.4198420 GHz</p> <p>GF 2.422 GHz 1001 pts 6.0 MHz/ Span 60.0 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>1</td> <td></td> <td>2.419842 GHz</td> <td>-1.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4039981 GHz</td> <td>-7.57 dBm</td> <td>Occ Bw</td> <td>36.323676324 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4402218 GHz</td> <td>-7.48 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 14:12:00</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.419842 GHz	-1.28 dBm			T1	1		2.4039981 GHz	-7.57 dBm	Occ Bw	36.323676324 MHz	T2	1		2.4402218 GHz	-7.48 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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T1	1		2.4039981 GHz	-7.57 dBm	Occ Bw	36.323676324 MHz																							
T2	1		2.4402218 GHz	-7.48 dBm																									
CH06	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 1.00 dB BW 500 kHz          Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 500/500          1 Occupied Bandwidth M1[1] 1.16 dBm 2.4349020 GHz</p> <p>GF 2.437 GHz 1001 pts 6.0 MHz/ 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>1</td> <td></td> <td>2.434902 GHz</td> <td>-1.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4189981 GHz</td> <td>-7.38 dBm</td> <td>Occ Bw</td> <td>36.323676324 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4522218 GHz</td> <td>-7.42 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 14:12:55</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.434902 GHz	-1.16 dBm			T1	1		2.4189981 GHz	-7.38 dBm	Occ Bw	36.323676324 MHz	T2	1		2.4522218 GHz	-7.42 dBm		
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T1	1		2.4189981 GHz	-7.38 dBm	Occ Bw	36.323676324 MHz																							
T2	1		2.4522218 GHz	-7.42 dBm																									
CH09	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 1.00 dB BW 500 kHz          Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 500/500          1 Occupied Bandwidth M1[1] -0.82 dBm 2.4498420 GHz</p> <p>GF 2.452 GHz 1001 pts 6.0 MHz/ 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>1</td> <td></td> <td>2.449842 GHz</td> <td>-0.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4339981 GHz</td> <td>-6.95 dBm</td> <td>Occ Bw</td> <td>36.263736264 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4701618 GHz</td> <td>-6.61 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 14:17:30</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.449842 GHz	-0.82 dBm			T1	1		2.4339981 GHz	-6.95 dBm	Occ Bw	36.263736264 MHz	T2	1		2.4701618 GHz	-6.61 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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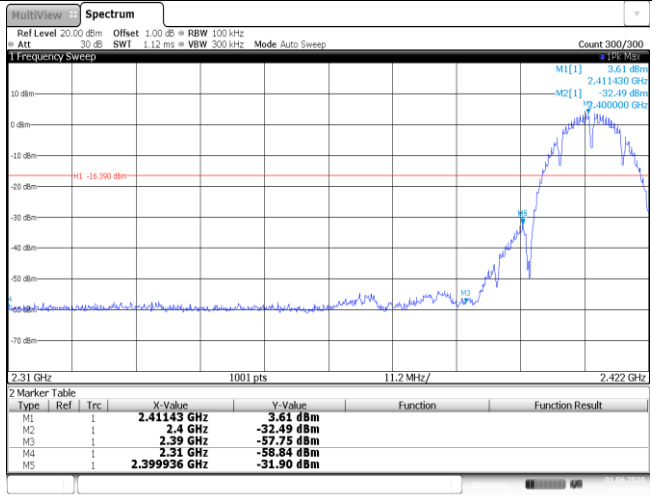
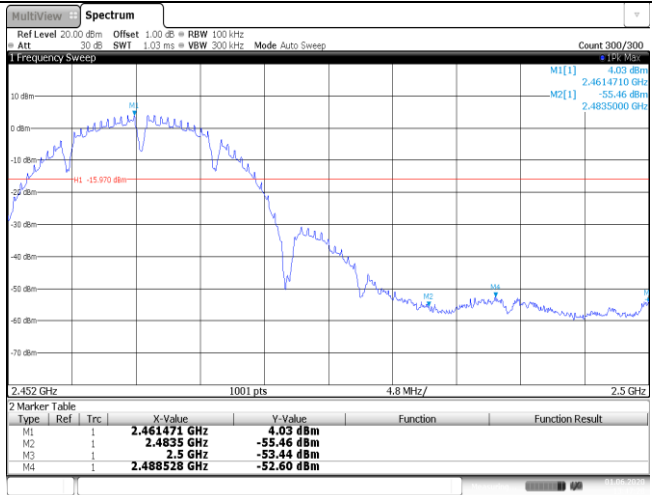
### Appendix E: Duty Cycle

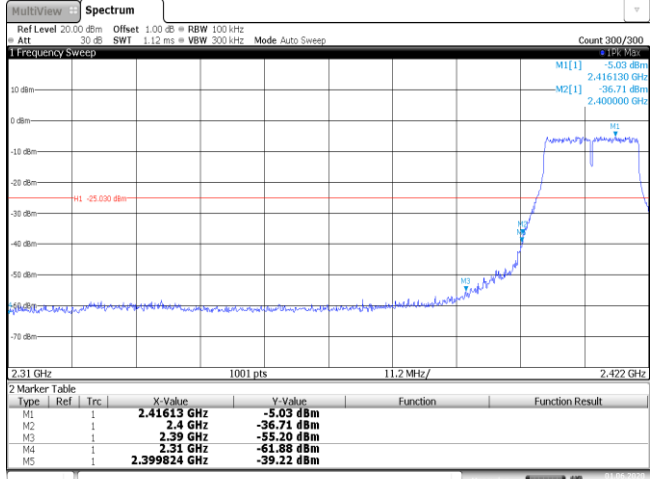
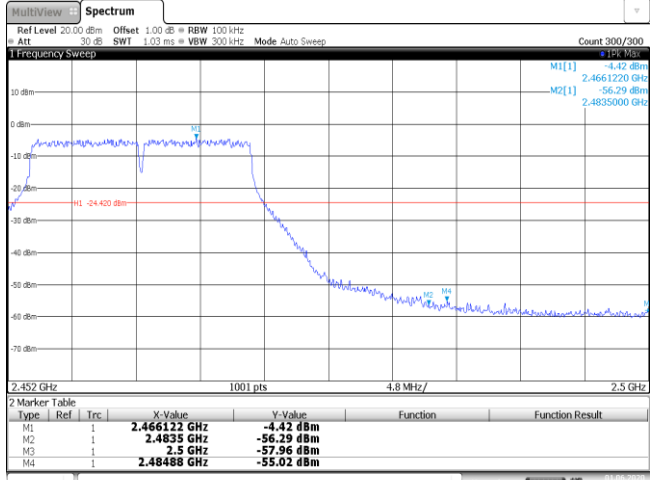
Modulation Type	Test Frequency (MHz)	T <sub>on time</sub> for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on time</sub> (kHz)
11b	2437	1.00	1.00	100%	1
11g	2437	1.00	1.00	100%	1
11n20	2437	1.00	1.00	100%	1
11n40	2437	1.00	1.00	100%	1

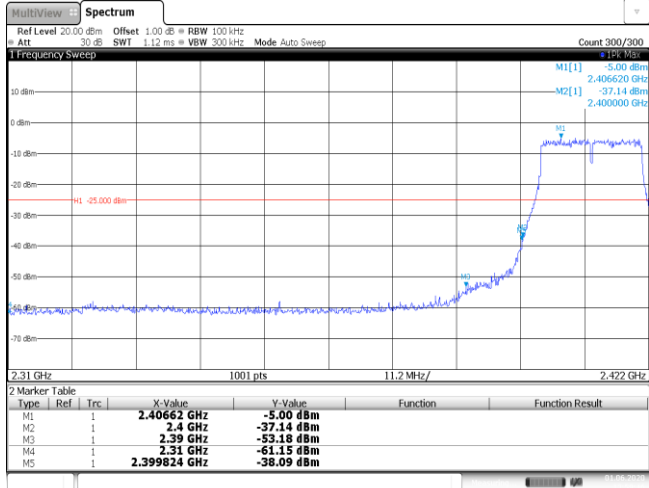
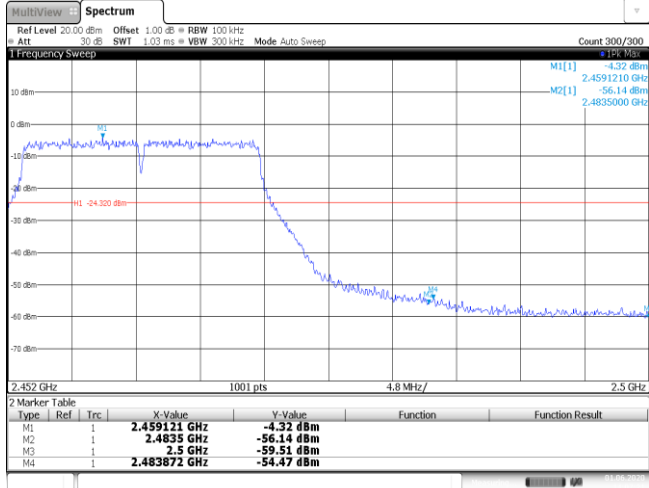


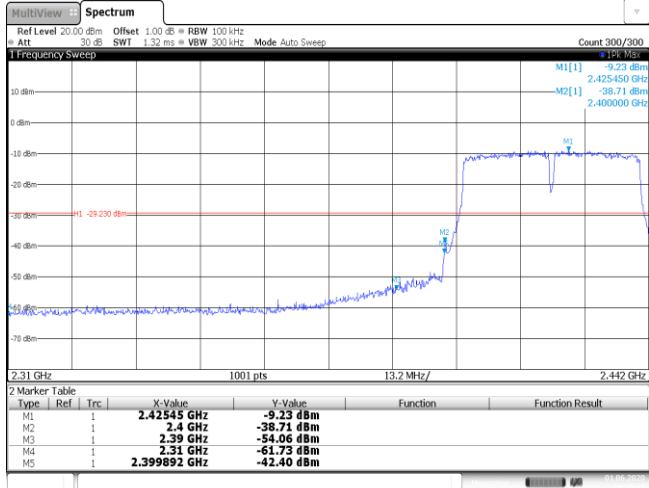
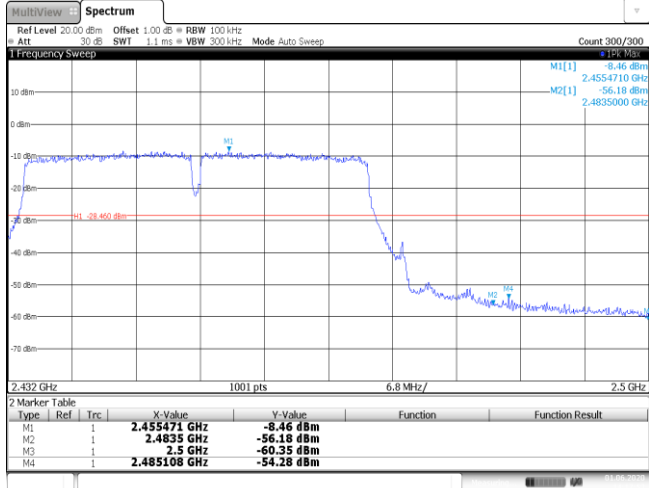


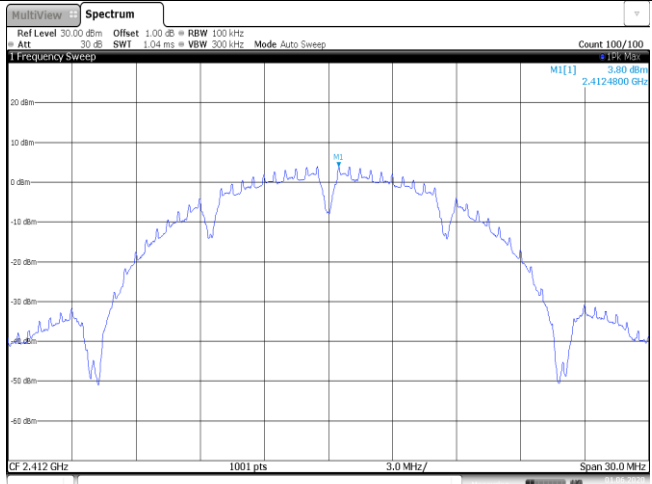
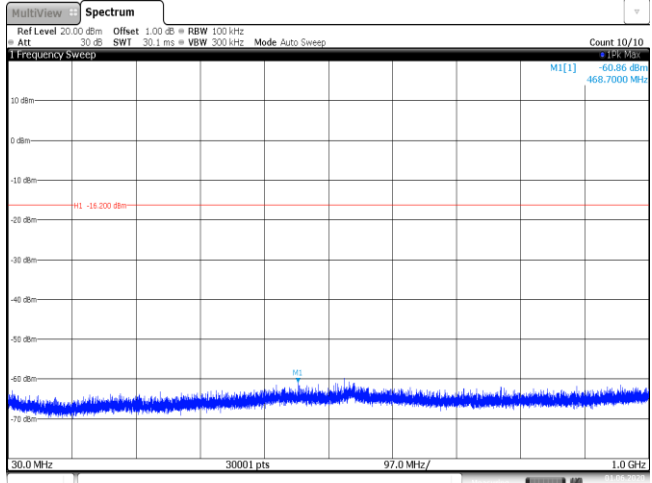
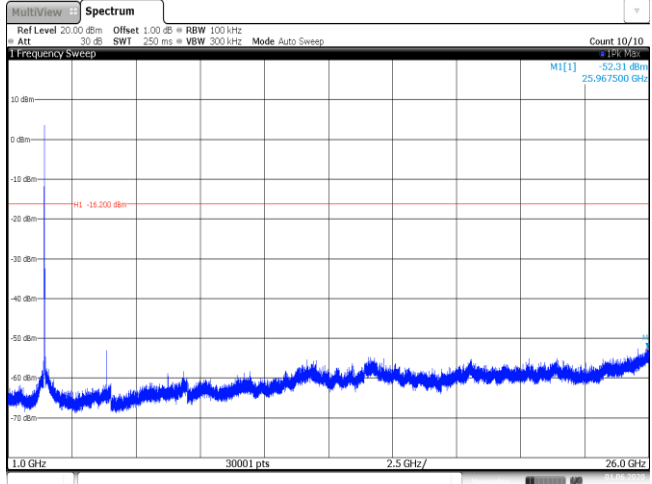
**Appendix F: Band edge and Spurious Emissions (conducted)**

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p><b>2 Marker Table</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>2.41143 GHz</td> <td>3.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-32.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-57.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-58.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399936 GHz</td> <td>-31.90 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 13:38:47</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41143 GHz	3.61 dBm			M2	1		2.4 GHz	-32.49 dBm			M3	1		2.39 GHz	-57.75 dBm			M4	1		2.31 GHz	-58.84 dBm			M5	1		2.399936 GHz	-31.90 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 SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 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></td> <td>2.41613 GHz</td> <td>-5.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-36.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-55.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-61.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-39.22 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUL.2020 13:51:03</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41613 GHz	-5.03 dBm			M2	1		2.4 GHz	-36.71 dBm			M3	1		2.39 GHz	-55.20 dBm			M4	1		2.31 GHz	-61.88 dBm			M5	1		2.399824 GHz	-39.22 dBm		
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CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.452 GHz 1001 pts 4.8 MHz/ 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>2.466122 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>-56.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-57.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.48468 GHz</td> <td>-55.02 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUL.2020 13:56:46</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.466122 GHz	-4.42 dBm			M2	1		2.4835 GHz	-56.29 dBm			M3	1		2.5 GHz	-57.96 dBm			M4	1		2.48468 GHz	-55.02 dBm									
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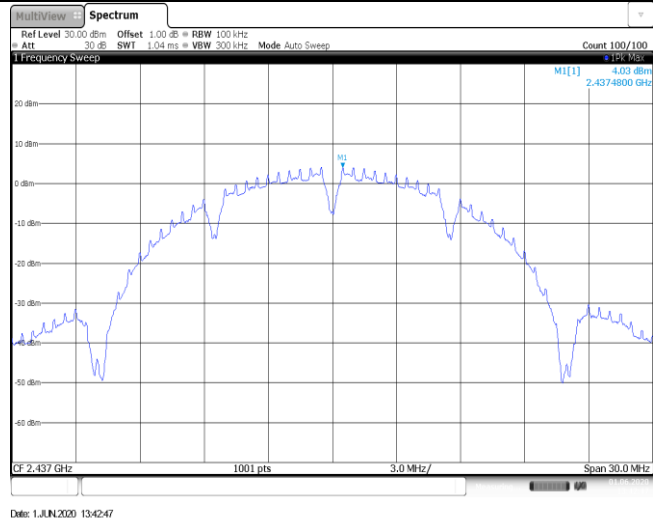
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CH01			
CH11			

Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

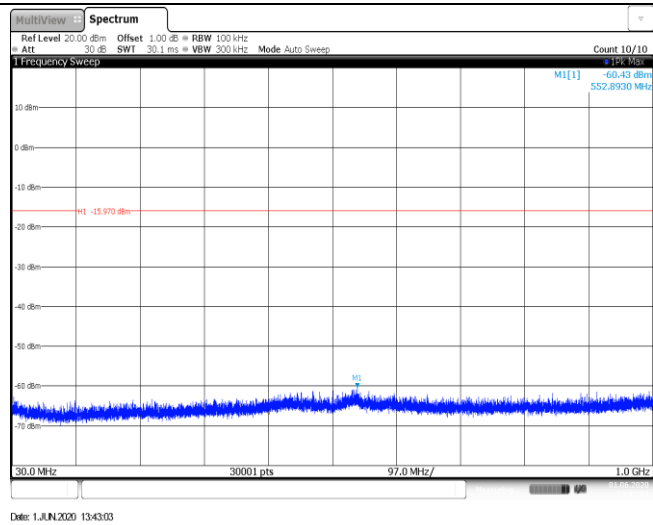
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			



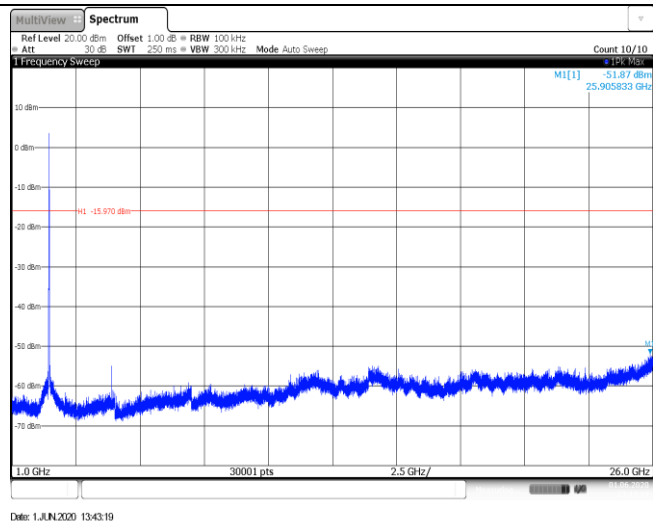
CH06  
Reference level



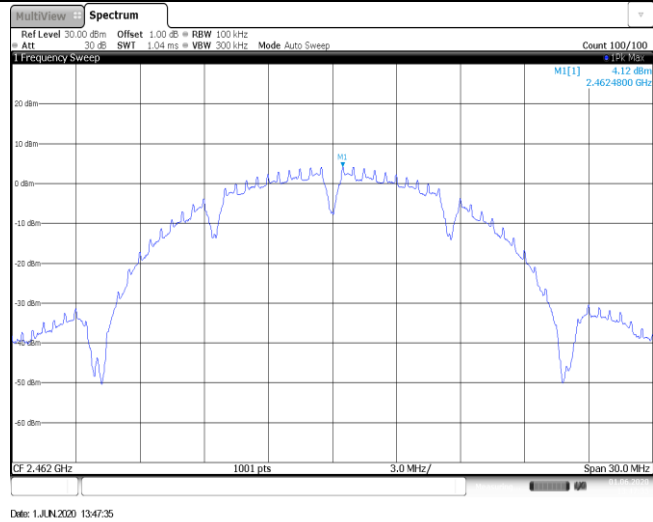
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30MHz~1000MHz



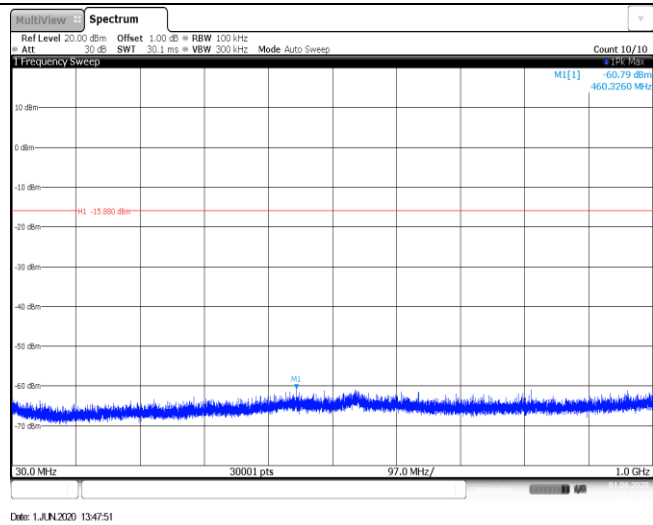
CH06  
1GHz~26GHz



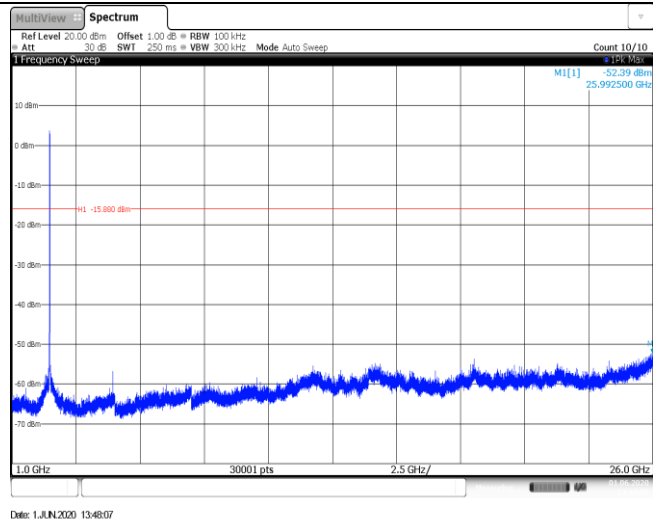
CH11  
Reference level

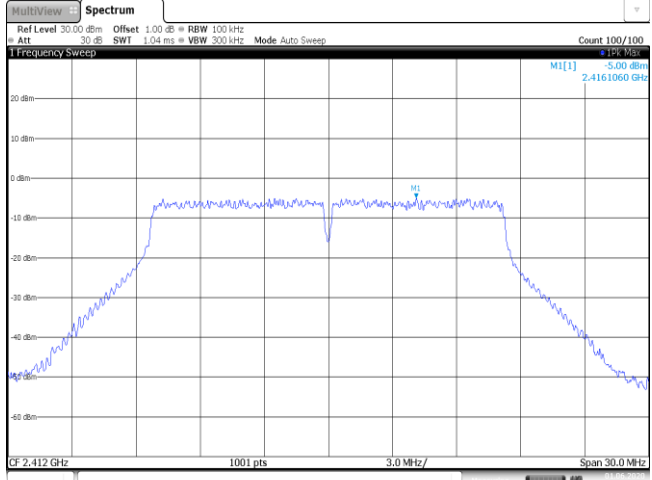
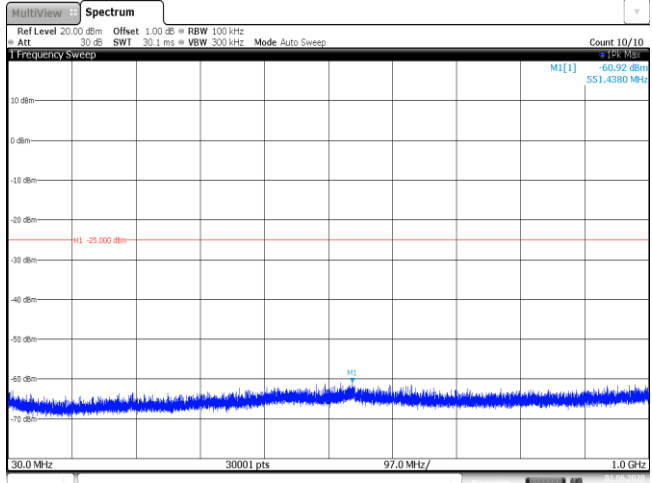
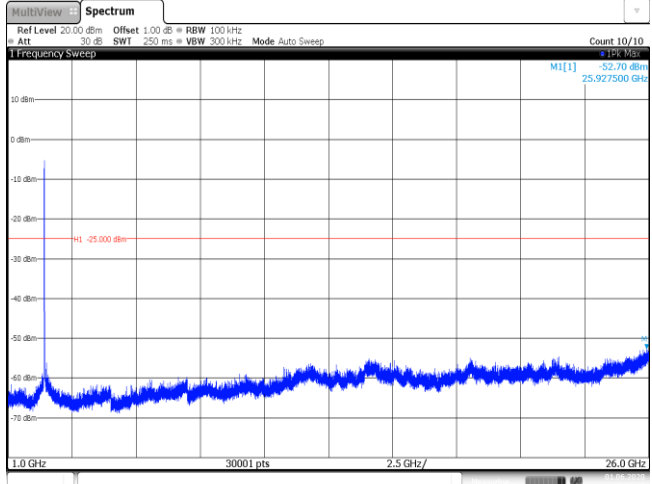


CH11  
30MHz~1000MHz



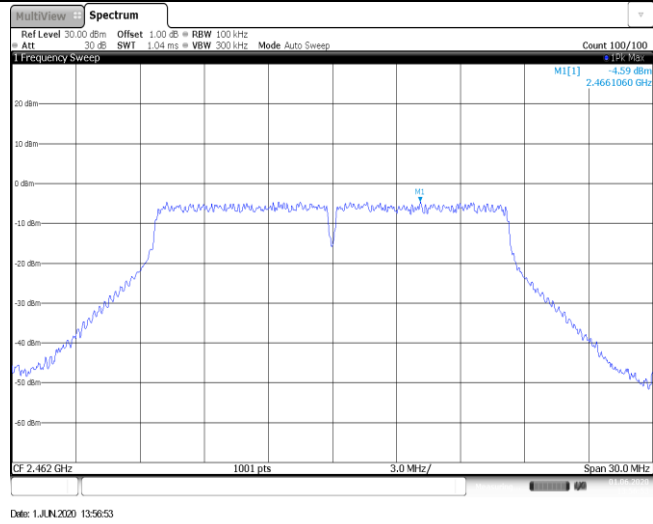
CH11  
1GHz~26GHz



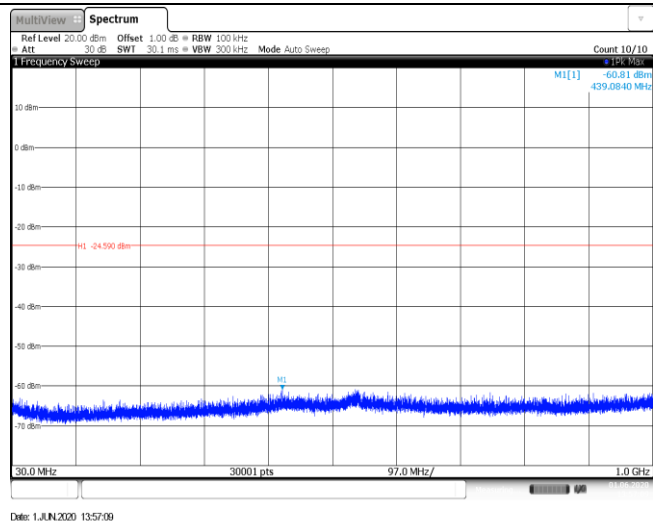
Test Item:	SE	Type:	802.11g
<p>CH01 Reference level</p>			 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 5.00 dBm 2.4161060 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 13:51:10</p>
<p>CH01 30MHz~1000MHz</p>			 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.92 dBm 551.4380 MHz H1 -25.000 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 13:51:27</p>
<p>CH01 1GHz~26GHz</p>			 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.70 dBm 25.927500 GHz H1 -25.000 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 13:51:43</p>

<p>CH06 Reference level</p>	<p>Date: 1.JUN.2020 13:53:43</p>
<p>CH06 30MHz~1000MHz</p>	<p>Date: 1.JUN.2020 13:53:59</p>
<p>CH06 1GHz~26GHz</p>	<p>Date: 1.JUN.2020 13:54:16</p>

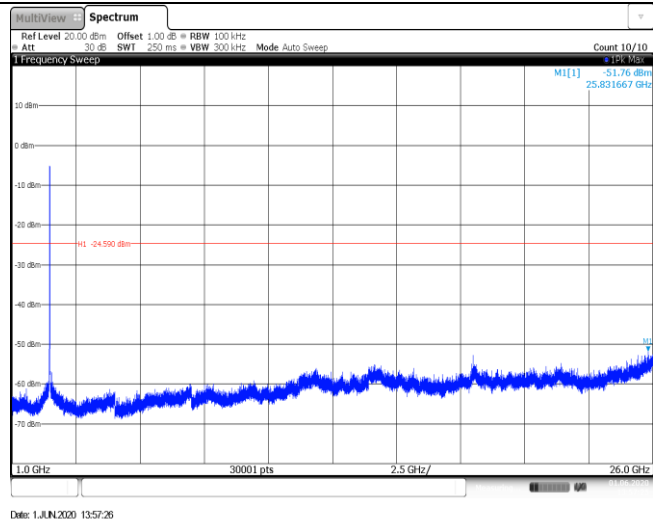
CH11  
Reference level



CH11  
30MHz~1000MHz



CH11  
1GHz~26GHz

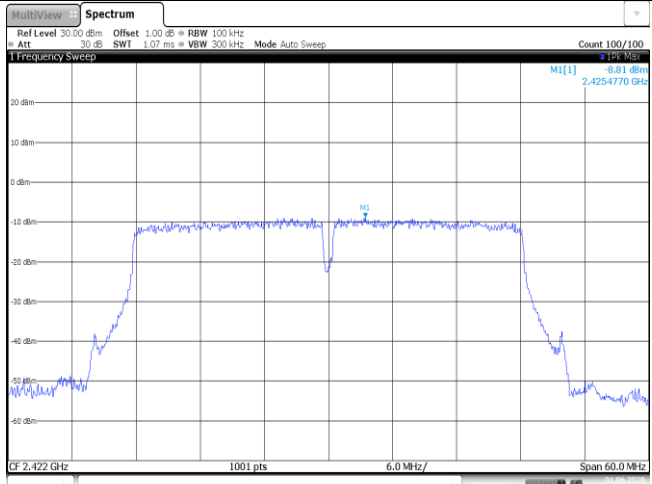
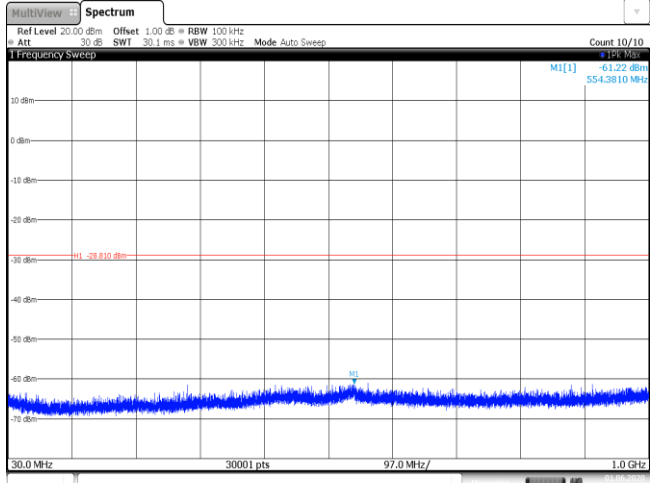
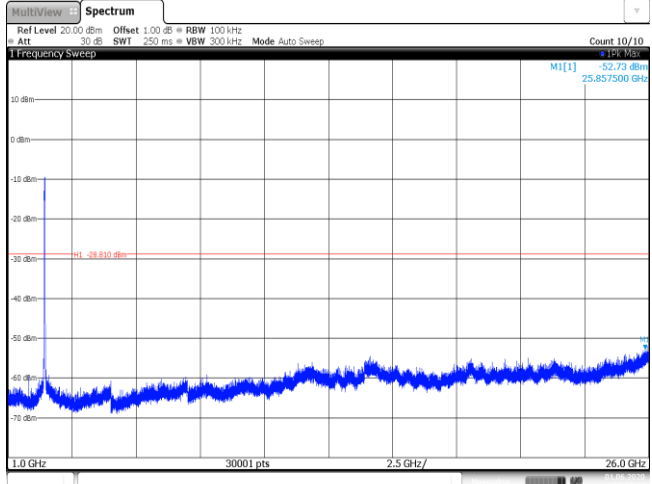


Test Item:	SE	Type:	802.11n(HT20)
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

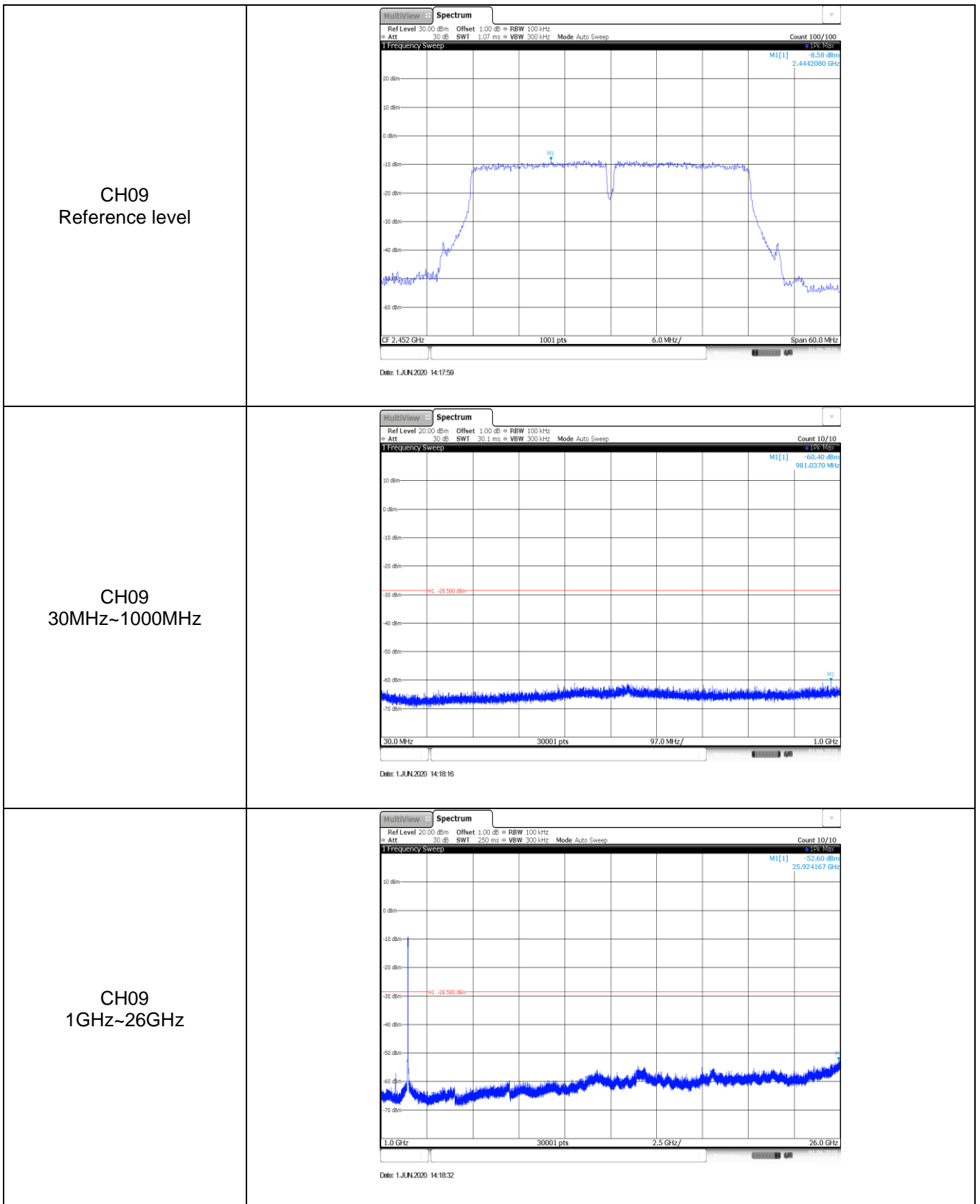
<p>CH06 Reference level</p>	<p>MultiView Spectrum          Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz          Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep          Count 100/100          1 Frequency Sweep          MI[1] -4.36 dBm          2.4340930 GHz          CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 1.JUN.2020 14:03:36</p>
<p>CH06 30MHz~1000MHz</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz          Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep          Count 10/10          1 Frequency Sweep          MI[1] -60.73 dBm          856.2990 MHz          MI -24.360 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 1.JUN.2020 14:03:52</p>
<p>CH06 1GHz~26GHz</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz          Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep          Count 10/10          1 Frequency Sweep          MI[1] -51.92 dBm          25.953333 GHz          MI -24.360 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 1.JUN.2020 14:04:08</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>CH03 30MHz~1000MHz</p>			
<p>CH03 1GHz~26GHz</p>			

<p>CH06 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.07 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -6.84 dBm 2.4292080 GHz CF 2.437 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 1.JUN.2020 14:13:48</p>
<p>CH06 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -60.59 dBm 997.1710 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 14:14:04</p>
<p>CH06 1GHz~26GHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -51.03 dBm 25.982500 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 14:14:20</p>



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