

APPENDIX REPORT

Project No.	SHT2009103703EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20091037003	Model No.	AX754+
Start test date	2020/11/10	Finish date	2020/11/10
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	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	11.31	8.95	≤ 30.00	Pass
	06	11.89	9.73		
	11	11.07	8.69		
802.11g	01	14.15	11.36	≤ 30.00	Pass
	06	14.76	11.96		
	11	14.40	11.44		
802.11n (HT20)	01	13.75	11.05	≤ 30.00	Pass
	06	14.52	11.67		
	11	13.86	11.07		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-3.02	≤8.00	Pass
	06	-2.25		
	11	-2.33		
802.11g	01	-11.01	≤8.00	Pass
	06	-10.79		
	11	-9.48		
802.11n(HT20)	01	-11.26	≤8.00	Pass
	06	-10.48		
	11	-11.83		

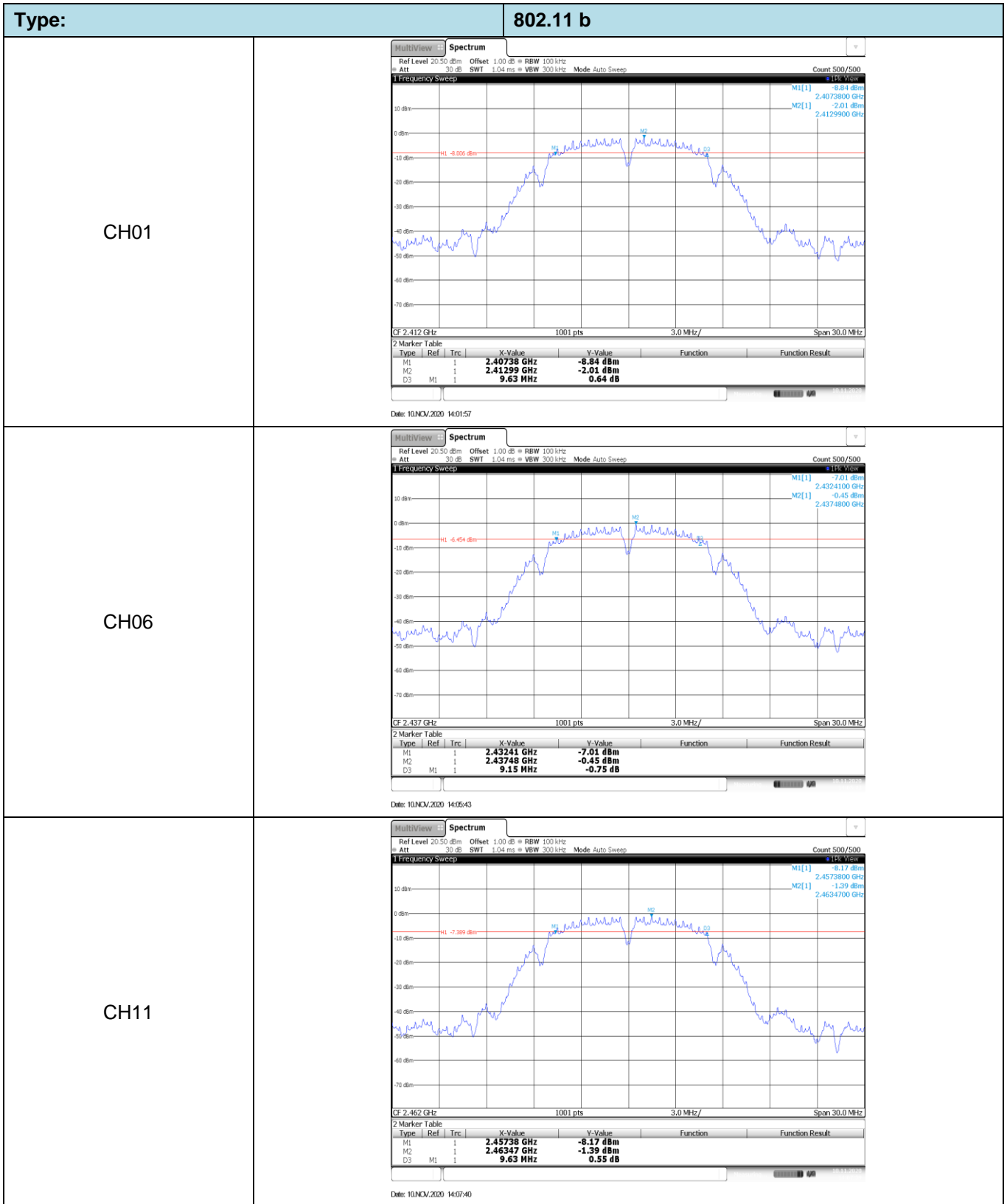
Type:	802.11 b
CH01	
CH06	
CH11	

Type:	802.11 g
CH01	<p> 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] -11.01 dBm 2.4144730 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 10/NOV/2009 14:17:55 </p>
CH06	<p> 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] -10.79 dBm 2.4444680 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 10/NOV/2009 14:21:52 </p>
CH11	<p> 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] -9.48 dBm 2.4644730 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 10/NOV/2009 14:25:57 </p>

Type:		802.11n(HT20)
CH01	<p>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] -11.26 dBm 2.4169700 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 10/NOV/2009 14:32:08</p>	
CH06	<p>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] -10.48 dBm 2.4357260 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 10/NOV/2009 14:38:42</p>	
CH11	<p>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] -11.83 dBm 2.4563560 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 10/NOV/2009 14:40:03</p>	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.63	≥0.5	Pass
	06	9.15		
	11	9.63		
802.11g	01	16.41	≥0.5	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.61	≥0.5	Pass
	06	17.64		
	11	17.67		

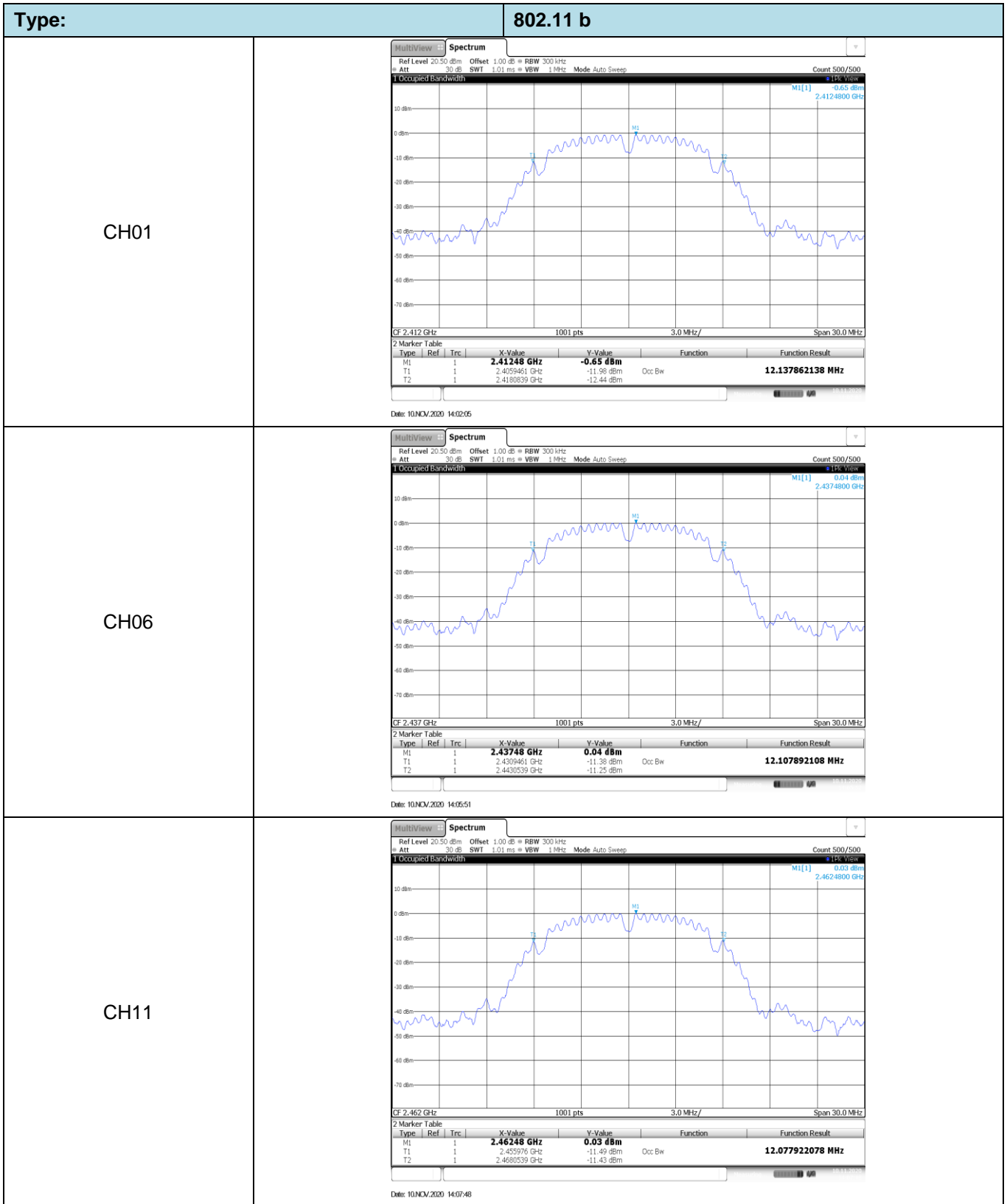


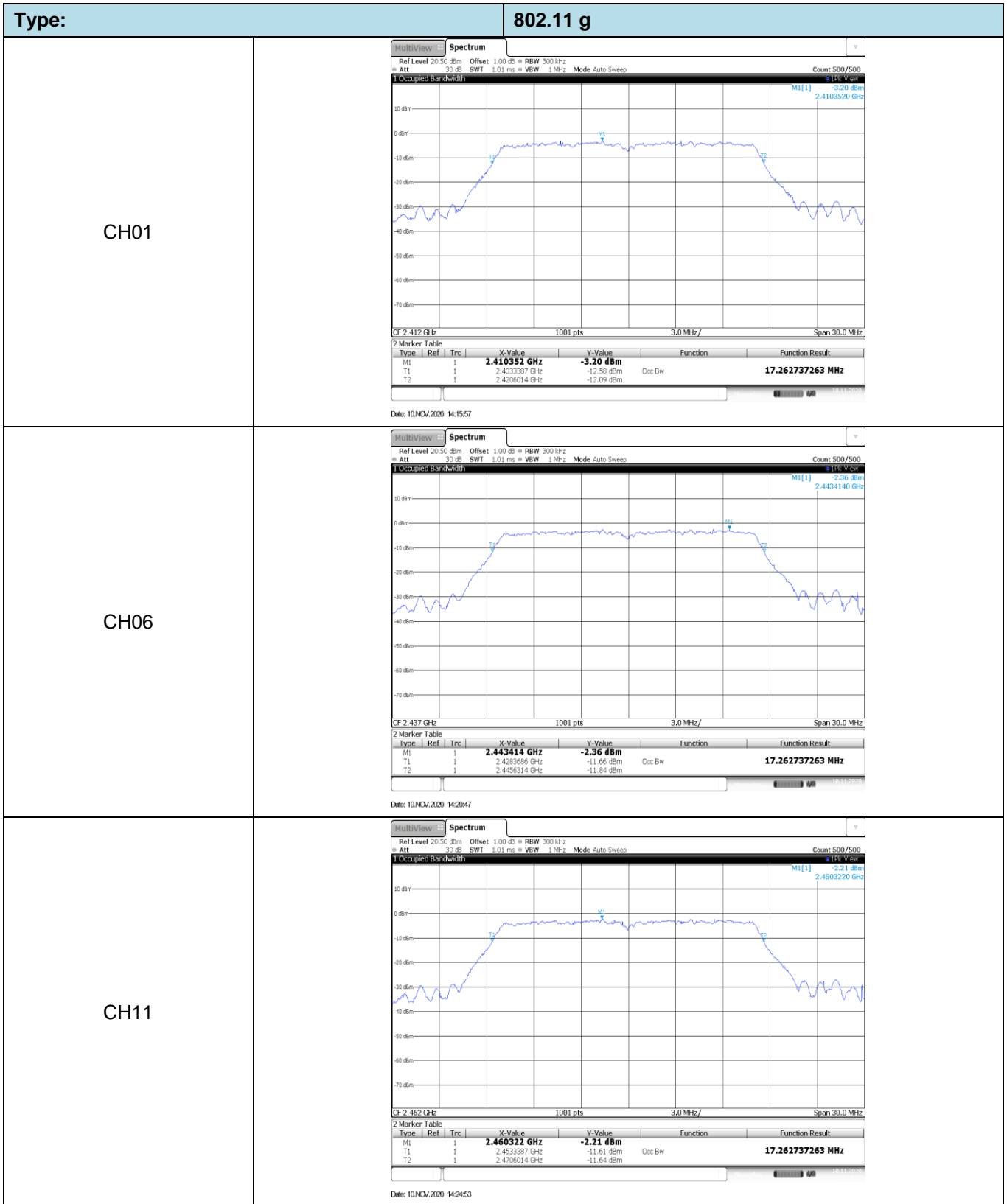
Type:	802.11 g																												
CH01	<p>Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40378 GHz</td> <td>-12.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41449 GHz</td> <td>-5.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.41 MHz</td> <td>0.02 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:15:48</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40378 GHz	-12.52 dBm			M2	1		2.41449 GHz	-5.71 dBm			D3	M1	1	16.41 MHz	0.02 dB		
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Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.14	-	Pass
	06	12.11		
	11	12.08		
802.11g	01	17.26	-	Pass
	06	17.26		
	11	17.26		
802.11n(HT20)	01	18.04	-	Pass
	06	18.01		
	11	18.01		

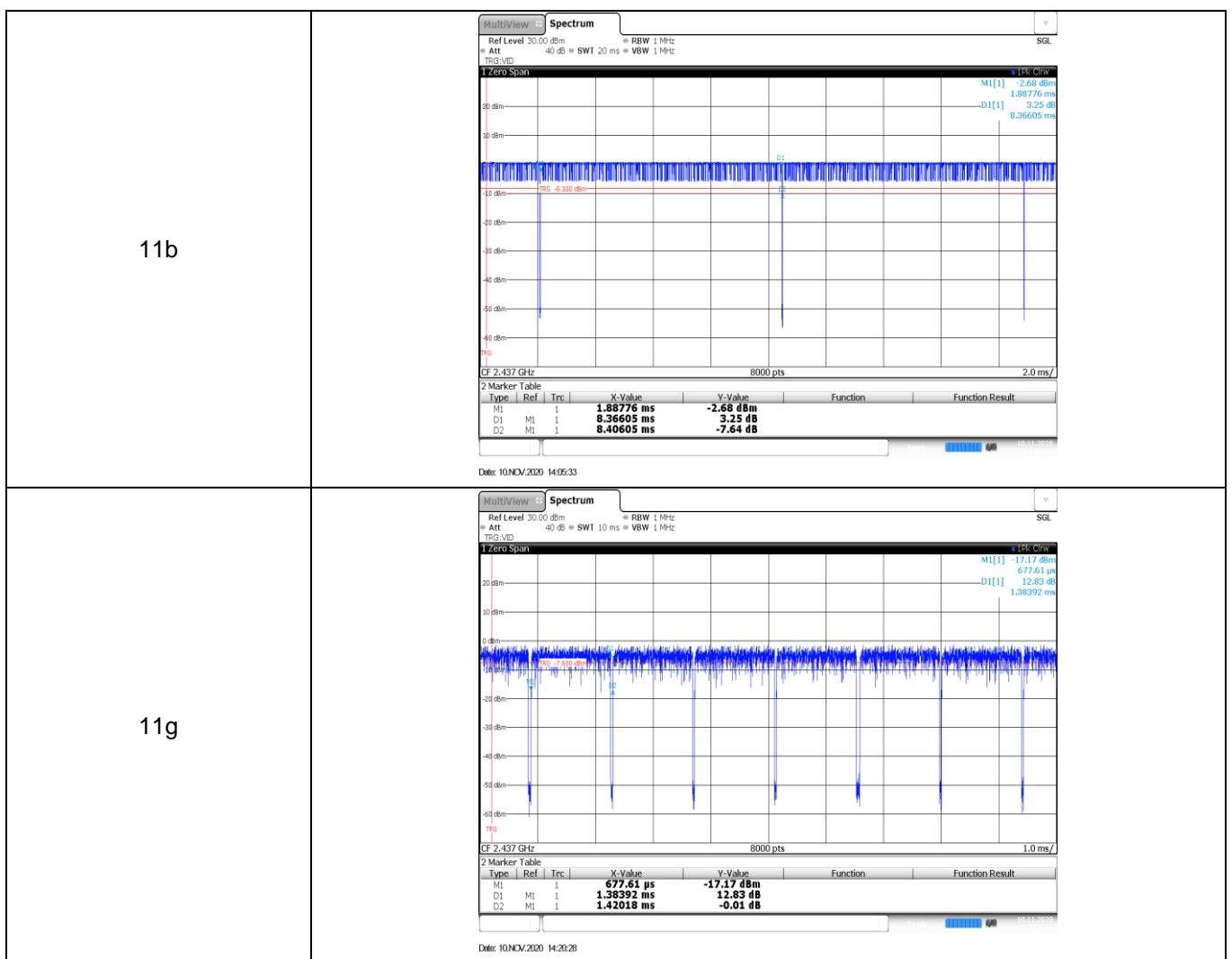




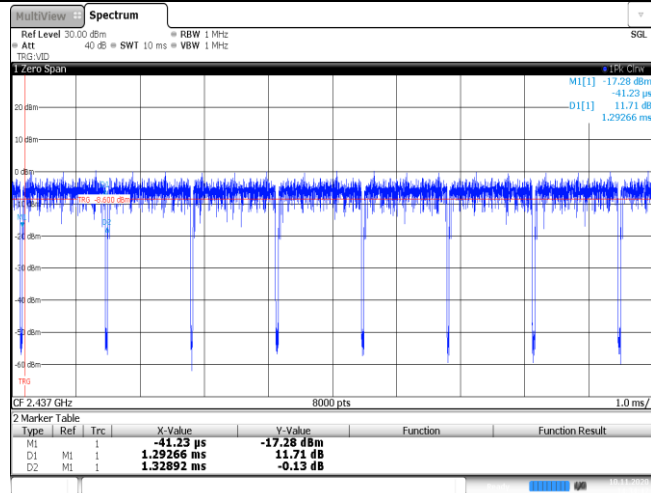
Type:	802.11n(HT20)																												
CH01	<p>1 Occupied Bandwidth</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>M1[1] 3.36 dBm 2.4148770 GHz</p> <p>GF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <table border="1"> <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>2.414877 GHz</td> <td>-3.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.402979 GHz</td> <td>-11.36 dBm</td> <td>Occ Bw</td> <td>18.041958042 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.421021 GHz</td> <td>-11.36 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:30:43</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.414877 GHz	-3.36 dBm			T1	1		2.402979 GHz	-11.36 dBm	Occ Bw	18.041958042 MHz	T2	1		2.421021 GHz	-11.36 dBm		
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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T2	1		2.471021 GHz	-10.46 dBm																									

Appendix E: Duty Cycle

Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.37	8.41	99.5%	0.1
11g	2437	1.38	1.42	97.2%	0.7
11n20	2437	1.29	1.33	97.0%	0.8


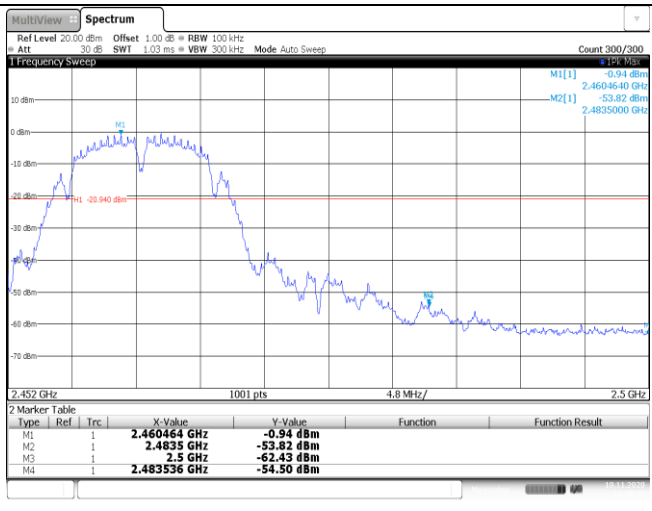


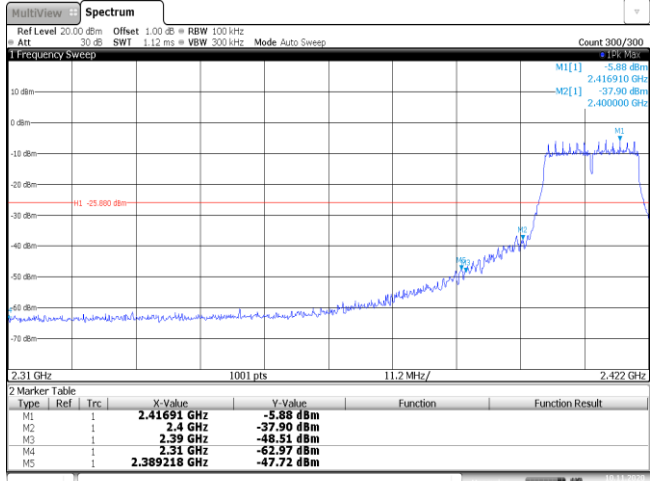
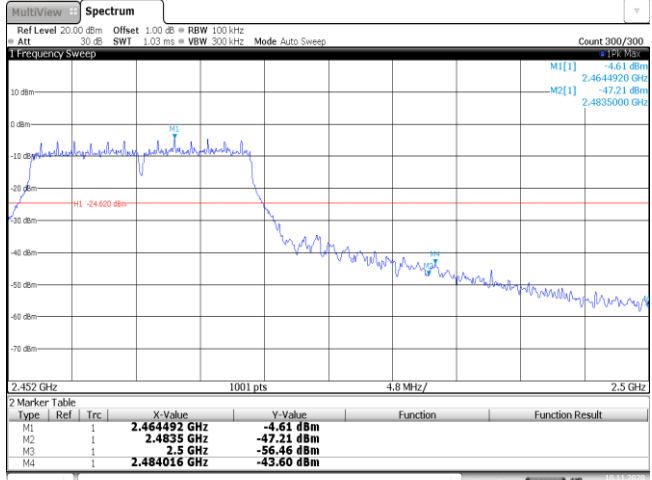
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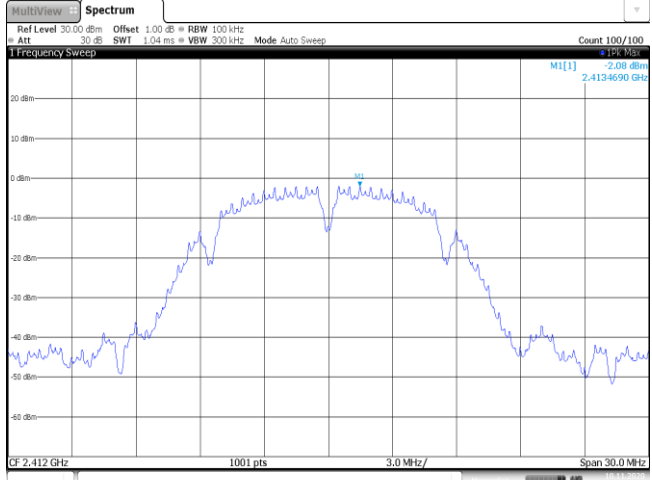
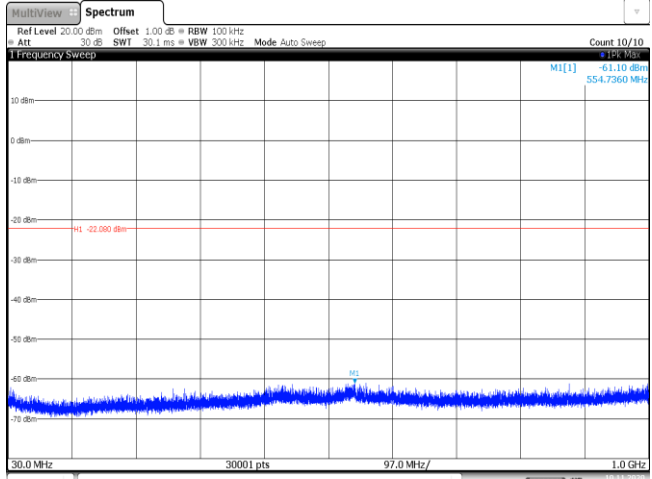
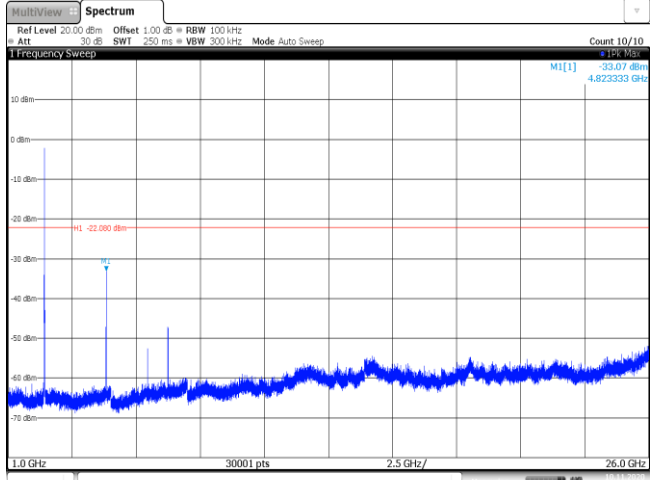
Date: 10/NOV/2020 14:34:42

Appendix F: Band edge and Spurious Emissions (conducted)

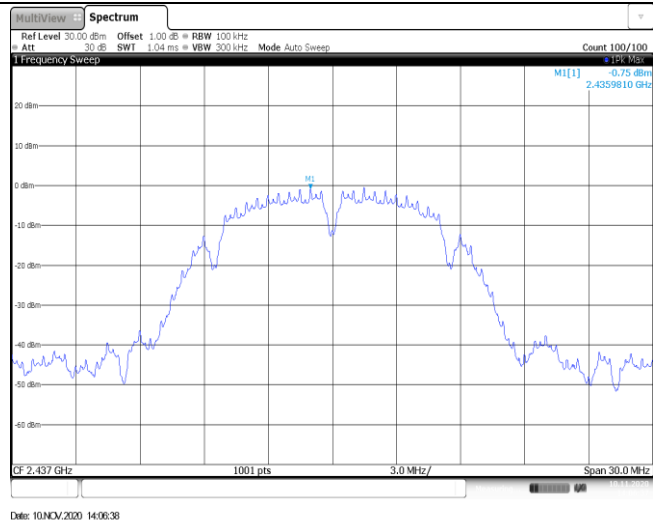
Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41344 GHz</td> <td>-2.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-45.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.389024 GHz</td> <td>-57.00 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:03:31</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41344 GHz	-2.21 dBm			M2	1		2.4 GHz	-45.61 dBm			M3	1		2.39 GHz	-58.38 dBm			M4	1		2.31 GHz	-63.28 dBm			M5	1		2.389024 GHz	-57.00 dBm		
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M5	1		2.389024 GHz	-57.00 dBm																																									
CH11	 <p>2 Marker Table</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>2.460464 GHz</td> <td>-0.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4833 GHz</td> <td>-53.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483536 GHz</td> <td>-54.50 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:10:29</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.460464 GHz	-0.94 dBm			M2	1		2.4833 GHz	-53.82 dBm			M3	1		2.5 GHz	-62.43 dBm			M4	1		2.483536 GHz	-54.50 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>2.41691 GHz</td> <td>-5.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-37.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-48.51 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.389218 GHz</td> <td>-47.72 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:20:00</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41691 GHz	-5.88 dBm			M2	1		2.4 GHz	-37.90 dBm			M3	1		2.39 GHz	-48.51 dBm			M4	1		2.31 GHz	-62.97 dBm			M5	1		2.389218 GHz	-47.72 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M4	1		2.31 GHz	-62.97 dBm																																									
M5	1		2.389218 GHz	-47.72 dBm																																									
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>2.464492 GHz</td> <td>-4.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-47.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-56.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484016 GHz</td> <td>-43.60 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:28:11</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464492 GHz	-4.61 dBm			M2	1		2.4835 GHz	-47.21 dBm			M3	1		2.5 GHz	-56.46 dBm			M4	1		2.484016 GHz	-43.60 dBm									
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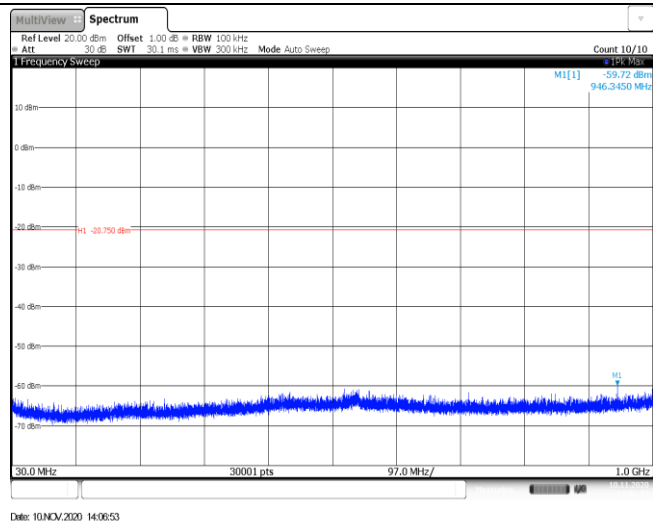
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	<p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</p> <table border="1"> <thead> <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>2.41691 GHz</td> <td>-6.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-37.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-48.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.38719 GHz</td> <td>-47.93 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:32:40</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41691 GHz	-6.21 dBm			M2	1		2.4 GHz	-37.75 dBm			M3	1		2.39 GHz	-48.42 dBm			M4	1		2.31 GHz	-62.59 dBm			M5	1		2.38719 GHz	-47.93 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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CH11	<p>Ref Level 20.00 dBm Offset 1.00 dB BW 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>2.464492 GHz</td> <td>-5.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-44.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-57.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483536 GHz</td> <td>-44.20 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 14:40:12</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464492 GHz	-5.18 dBm			M2	1		2.4835 GHz	-44.04 dBm			M3	1		2.5 GHz	-57.20 dBm			M4	1		2.483536 GHz	-44.20 dBm									
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M4	1		2.483536 GHz	-44.20 dBm																																									

Test Item:	SE	Type:	802.11 b
<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] 2.08 dBm 2.4134690 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 10/NOV/2020 14:03:38</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] -61.10 dBm 554.7360 MHz H1 -22.000 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 10/NOV/2020 14:03:54</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] -33.07 dBm 4.822533 GHz H1 -22.000 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 10/NOV/2020 14:04:10</p>	

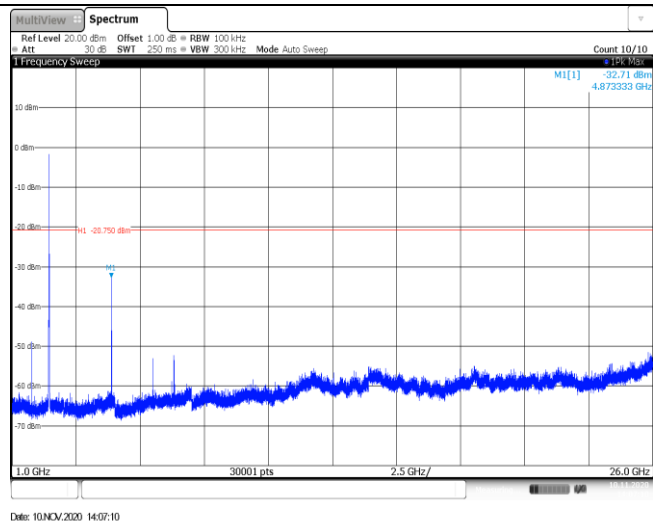
CH06
Reference level



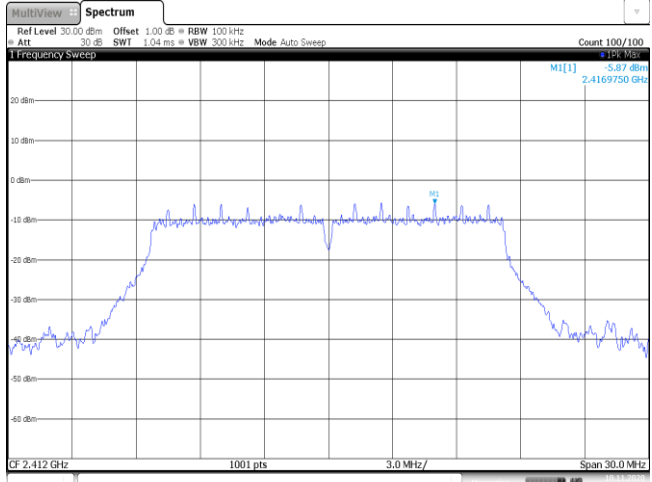
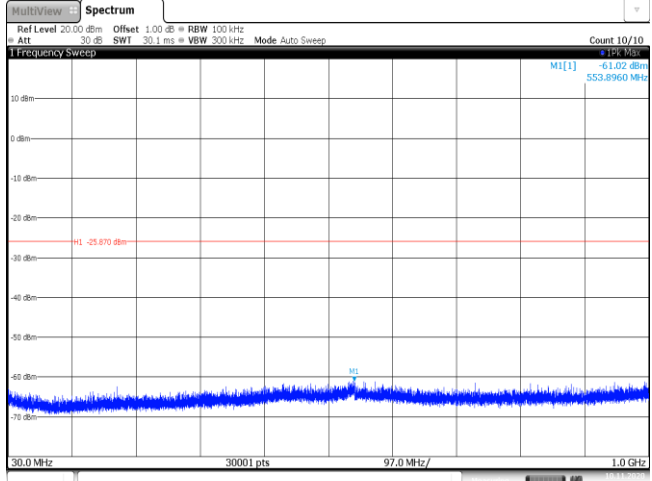
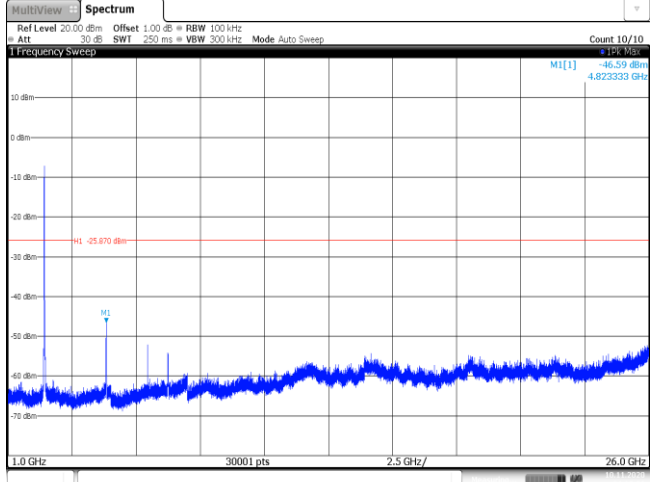
CH06
30MHz~1000MHz



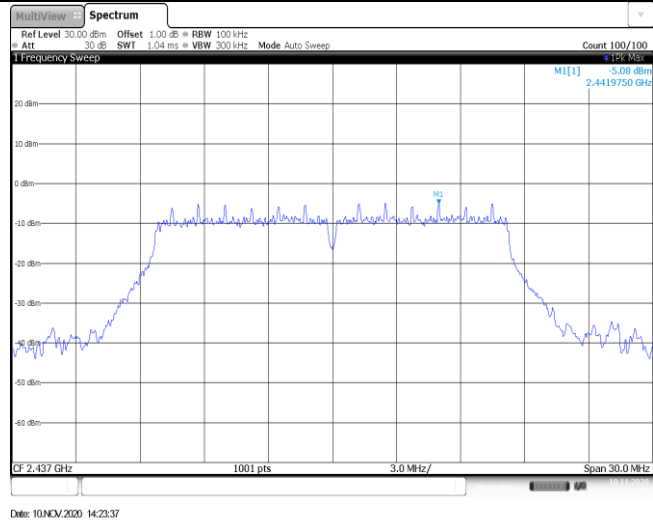
CH06
1GHz~26GHz



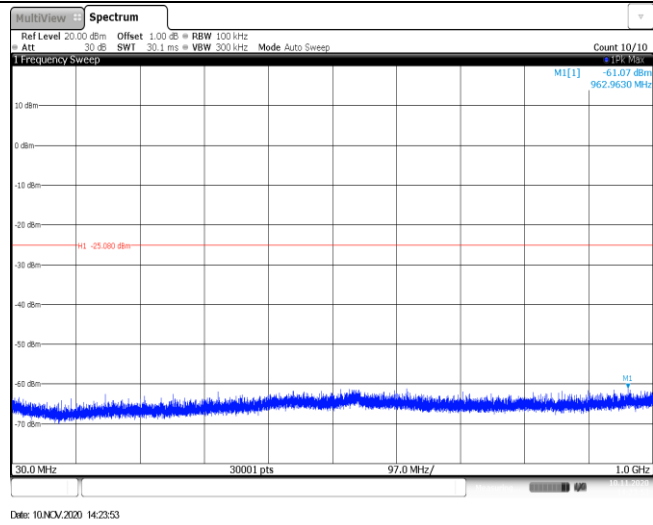
<p>CH11 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.39 dBm 2.4634690 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 10/NOV/2020 14:12:08</p>
<p>CH11 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -60.73 dBm 535.9510 MHz M1 -21.90 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 10/NOV/2020 14:12:23</p>
<p>CH11 1GHz~26GHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -33.91 dBm 4.923333 GHz M1 -21.90 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 10/NOV/2020 14:12:40</p>

Test Item:	SE	Type:	802.11 g
<p>CH01 Reference level</p>			 <p>Date: 10/NOV/2020 14:18:19</p>
<p>CH01 30MHz~1000MHz</p>			 <p>Date: 10/NOV/2020 14:18:35</p>
<p>CH01 1GHz~26GHz</p>			 <p>Date: 10/NOV/2020 14:18:51</p>

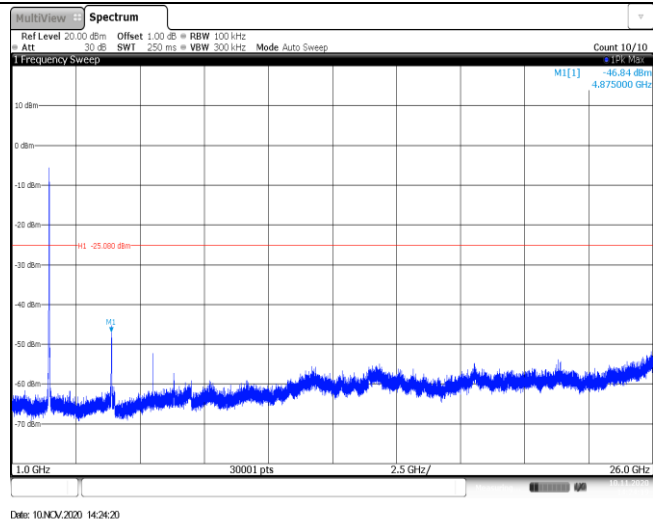
CH06
Reference level



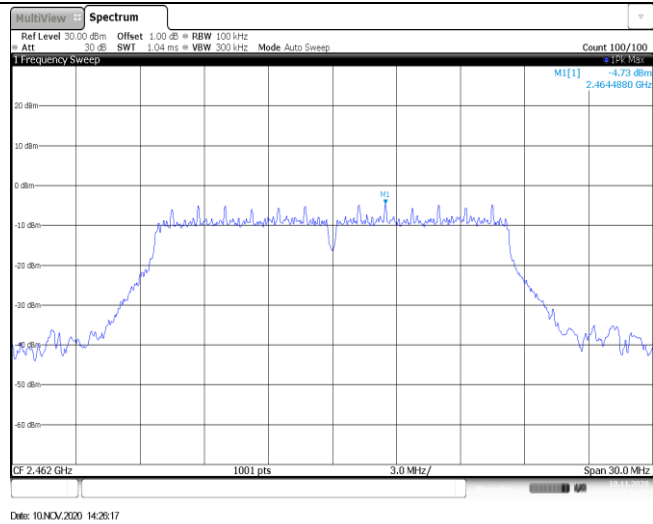
CH06
30MHz~1000MHz



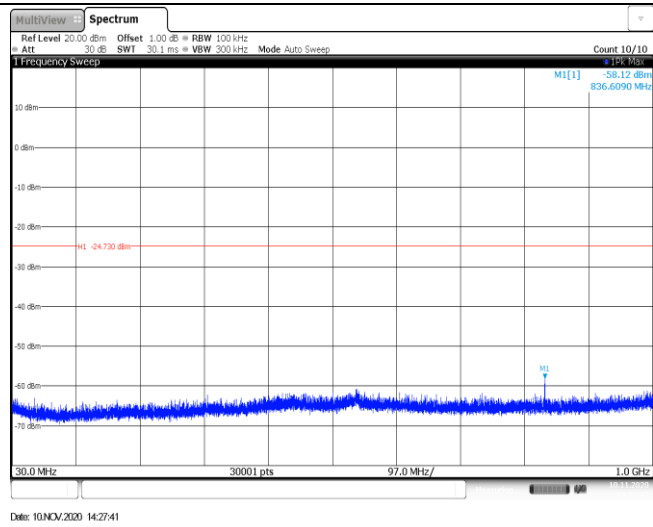
CH06
1GHz~26GHz



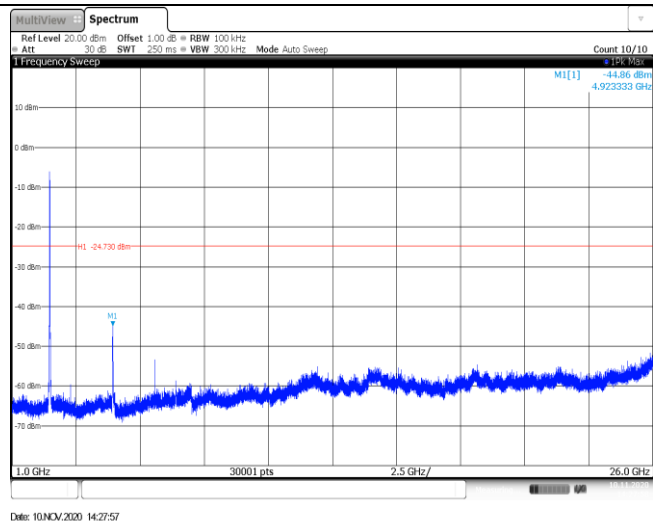
CH11
Reference level



CH11
30MHz~1000MHz

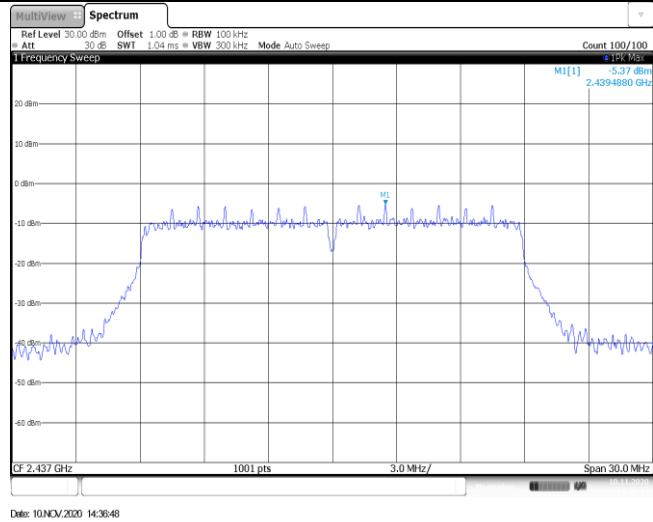


CH11
1GHz~26GHz

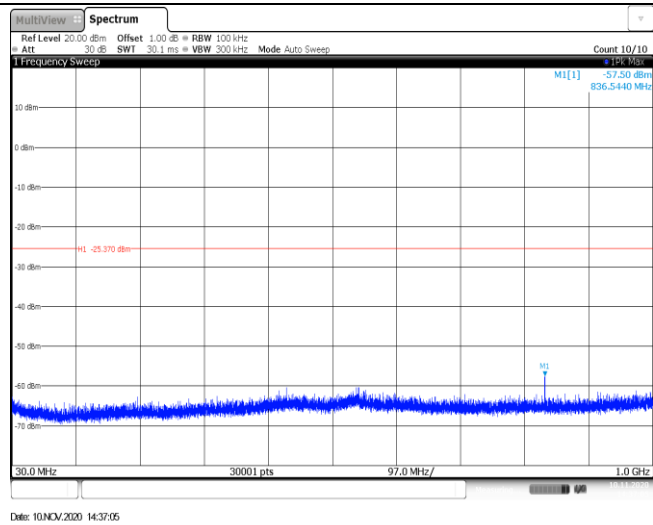


Test Item:	SE	Type:	802.11 n(HT20)
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

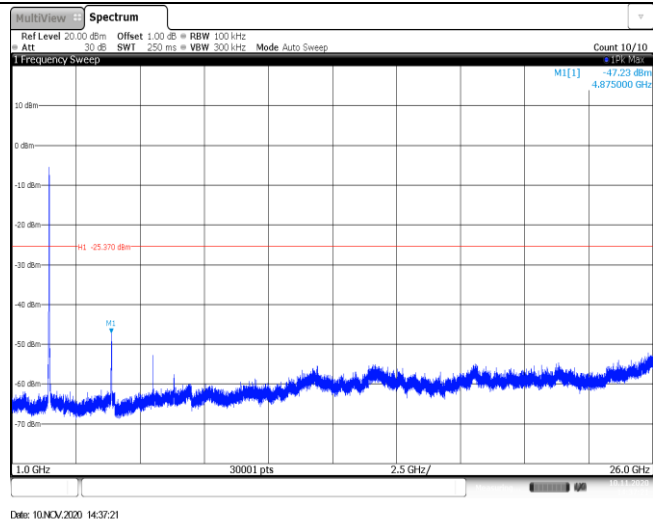
CH06
Reference level

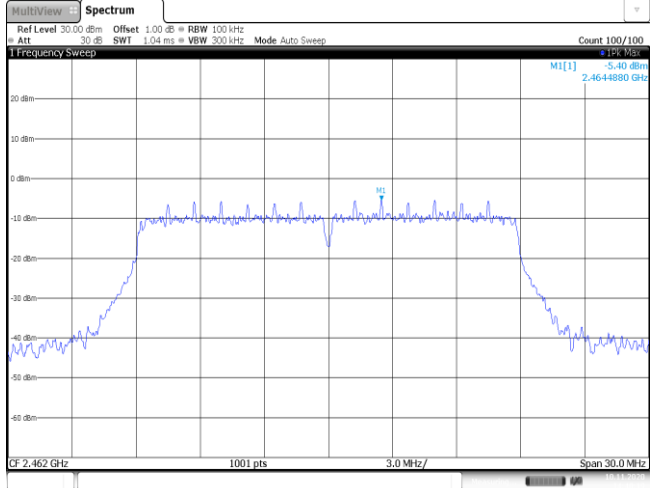
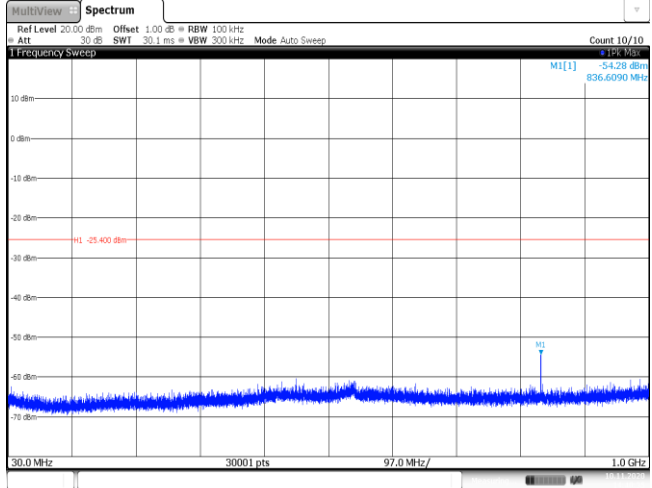
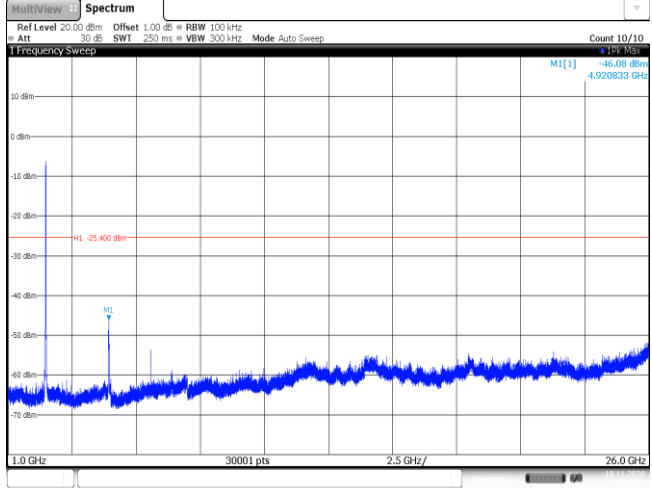


CH06
30MHz~1000MHz



CH06
1GHz~26GHz



<p>CH11 Reference level</p>	 <p>Date: 10/NOV/2020 14:40:19</p>
<p>CH11 30MHz~1000MHz</p>	 <p>Date: 10/NOV/2020 14:40:35</p>
<p>CH11 1GHz~26GHz</p>	 <p>Date: 10/NOV/2020 14:40:52</p>

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