

# APPENDIX REPORT

Project No.	SHT2008120601EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20081206002	Model No.	CT9T48
Start test date	2020/9/14	Finish date	2020/9/14
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

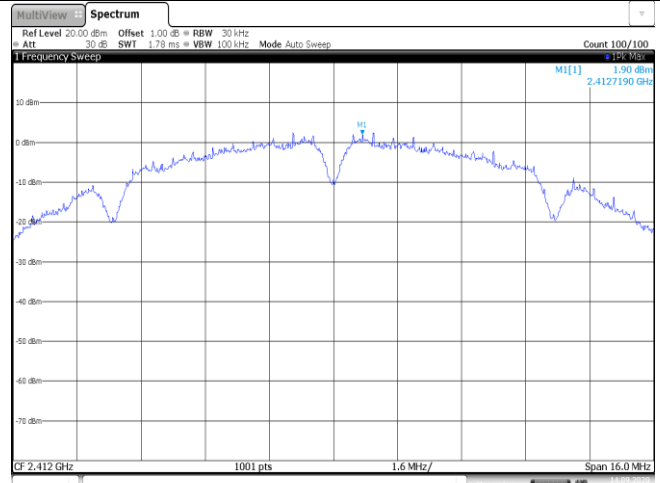
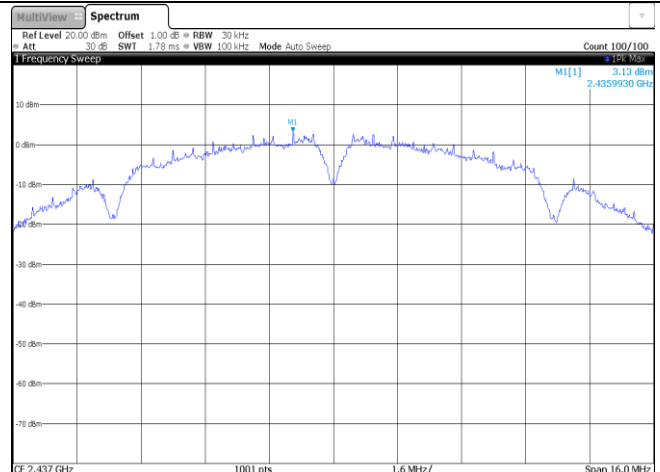
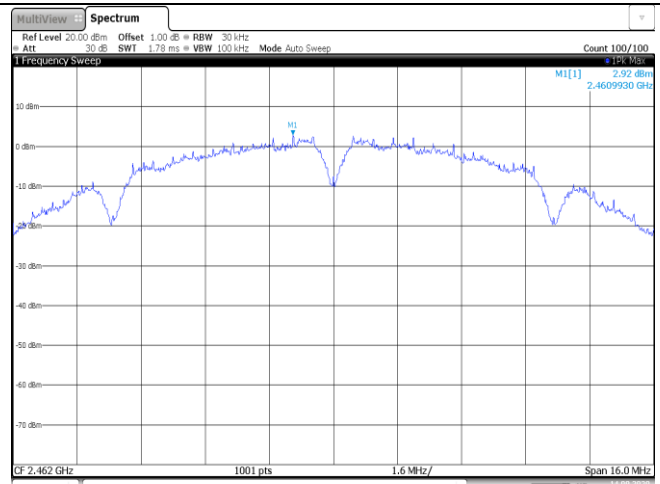
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

**Appendix A: Conducted Peak Output Power**

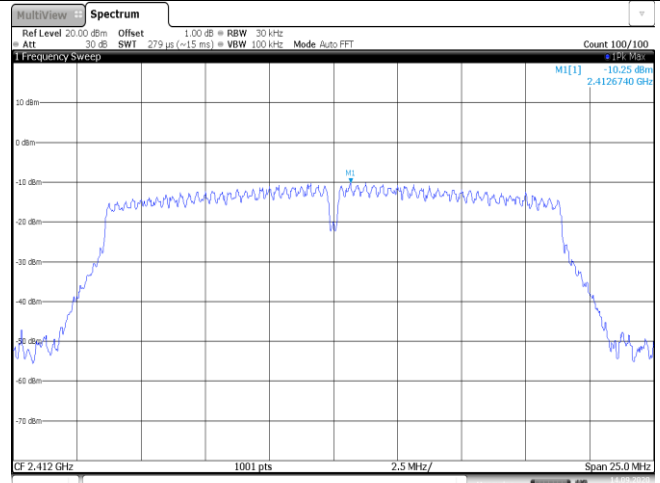
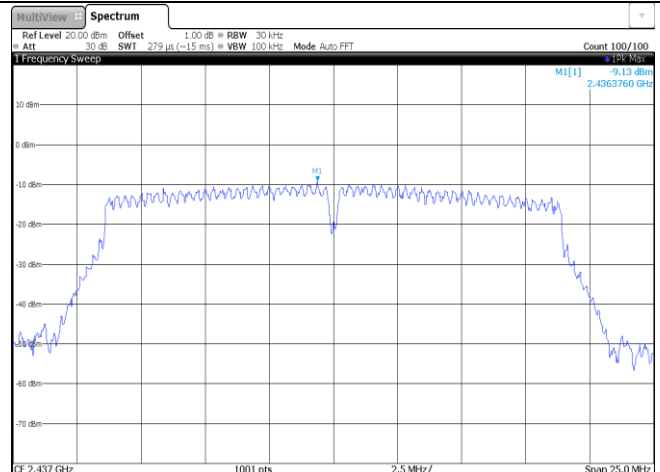
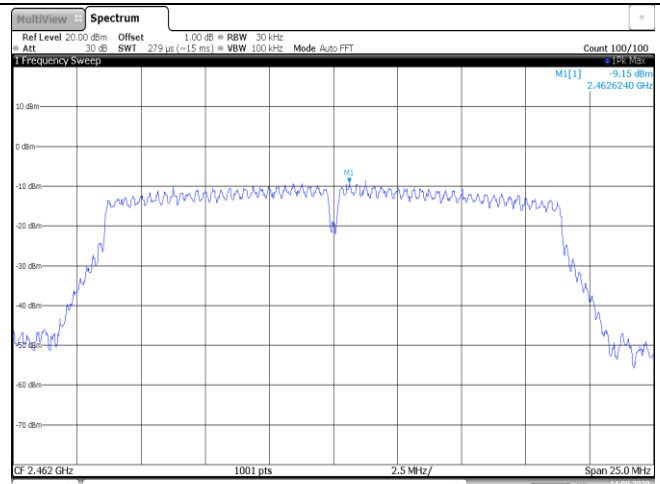
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.90	14.33	≤ 30.00	Pass
	06	17.82	15.37		
	11	17.77	15.25		
802.11g	01	15.26	13.02	≤ 30.00	Pass
	06	16.05	13.67		
	11	16.24	13.84		
802.11n (HT20)	01	15.05	12.72	≤ 30.00	Pass
	06	15.98	14.00		
	11	16.16	14.38		
802.11n(HT40)	03	14.16	11.81	≤ 30.00	Pass
	06	14.12	11.76		
	09	14.47	12.07		

**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	1.90	≤8.00	Pass
	06	3.13		
	11	2.92		
802.11g	01	-9.65	≤8.00	Pass
	06	-9.29		
	11	-8.13		
802.11n(HT20)	01	-10.25	≤8.00	Pass
	06	-9.13		
	11	-9.15		
802.11n(HT40)	03	-13.28	≤8.00	Pass
	06	-14.72		
	09	-14.72		

Type:	802.11 b
CH01	 <p> <b>Spectrum</b>            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] 1.90 dBm            2.4127190 GHz            CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz            Date: 14.SEP.2000 11:34:04         </p>
CH06	 <p> <b>Spectrum</b>            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] 3.13 dBm            2.4359930 GHz            CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz            Date: 14.SEP.2000 11:38:03         </p>
CH11	 <p> <b>Spectrum</b>            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] 2.92 dBm            2.4609930 GHz            CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz            Date: 14.SEP.2000 13:21:36         </p>

Type:	802.11 g
CH01	<p> <b>Spectrum</b>                      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] 9.65 dBm                      2.4113760 GHz                      CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 14.SEP.2000 13:28:29                 </p>
CH06	<p> <b>Spectrum</b>                      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] 9.29 dBm                      2.4376240 GHz                      CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 14.SEP.2000 13:38:54                 </p>
CH11	<p> <b>Spectrum</b>                      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] 8.13 dBm                      2.4595020 GHz                      CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 14.SEP.2000 13:39:07                 </p>

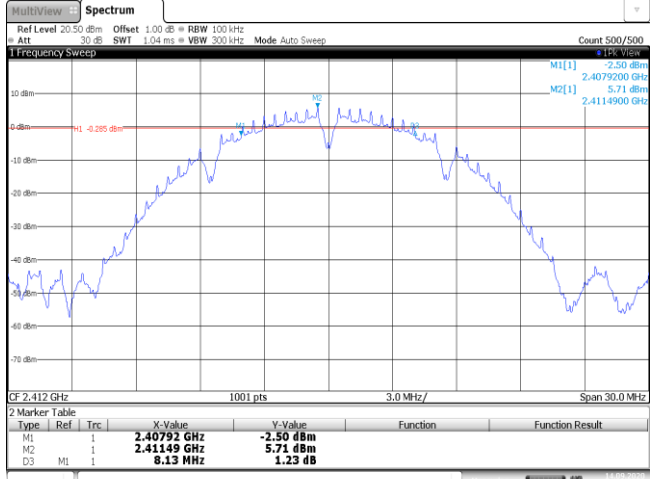
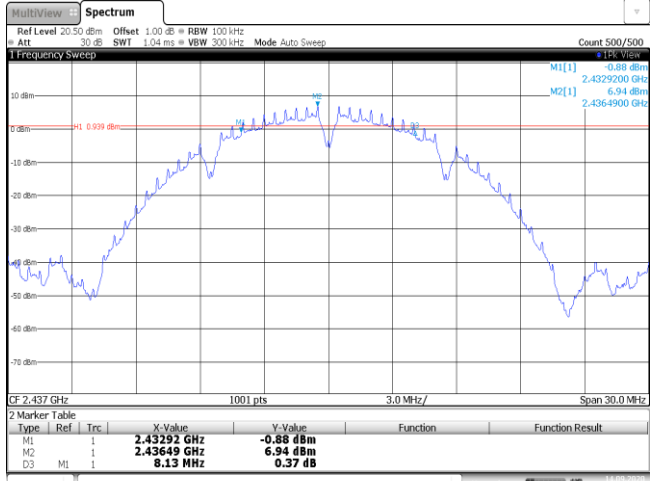
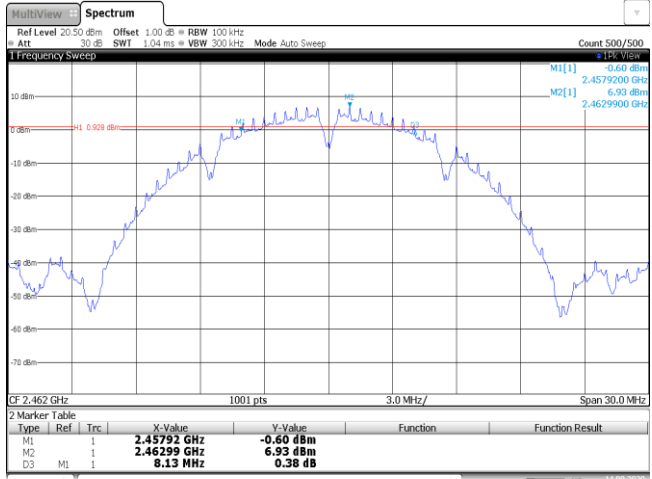
Type:	802.11n(HT20)
CH01	 <p>                     Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz                      Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100                      MI[1] -10.25 dBm 2.4126740 GHz                      CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 14.SEP.2000 13:44:49                 </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] -9.13 dBm 2.4363760 GHz                      CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 14.SEP.2000 13:50:10                 </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] -9.15 dBm 2.4626240 GHz                      CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz                      Date: 14.SEP.2000 13:55:42                 </p>

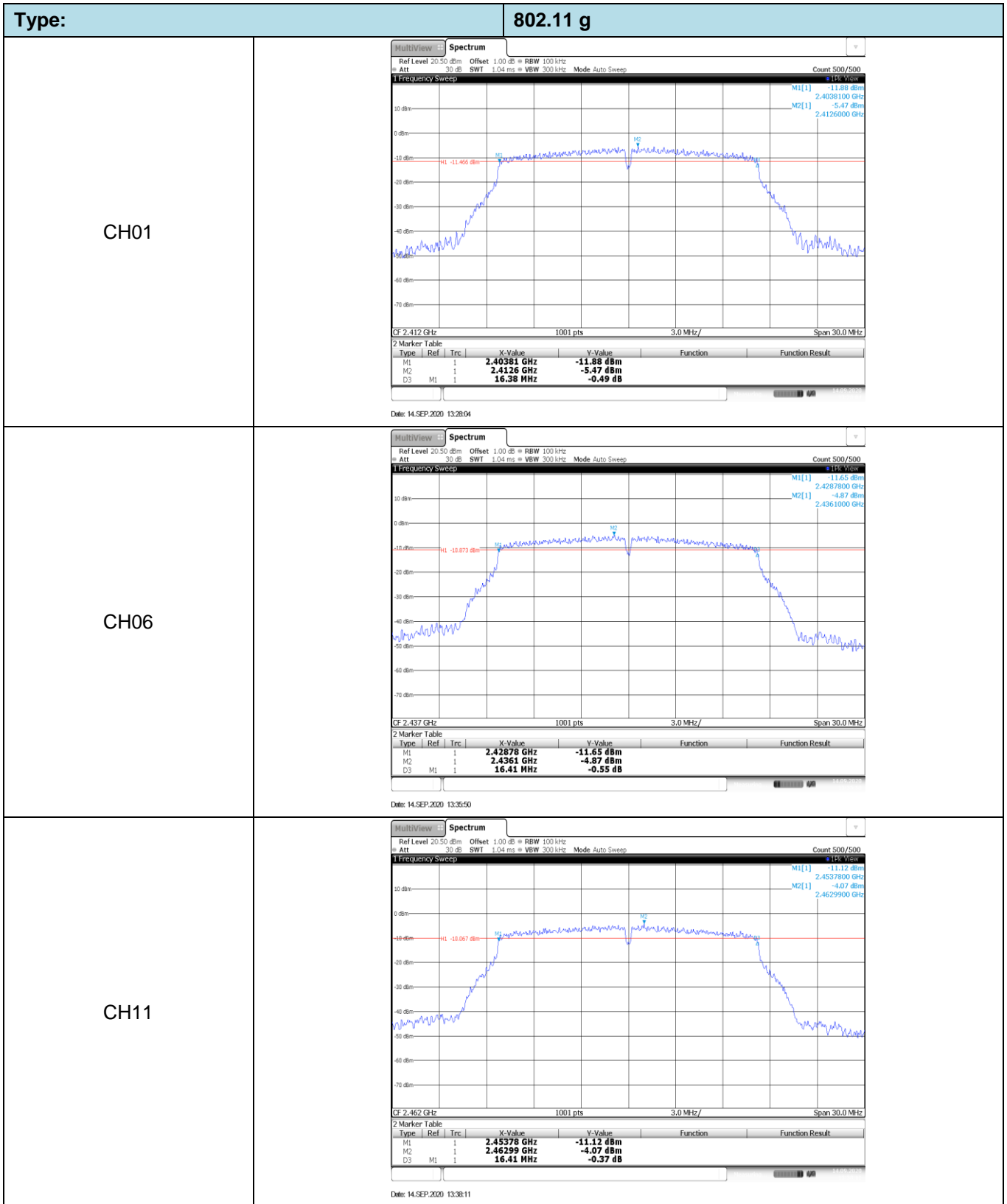
Type:	802.11n(HT40)
CH03	<p> <b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz            Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100            1 Frequency Sweep            MI[1] -13.28 dBm            2.4222640 GHz            CF 2.422 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz            Date: 14.SEP.2000 13:59:03         </p>
CH06	<p> <b>Spectrum</b>            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 Count 100/100            1 Frequency Sweep            MI[1] -14.72 dBm            2.4395270 GHz            CF 2.437 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz            Date: 14.SEP.2000 14:08:40         </p>
CH09	<p> <b>Spectrum</b>            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 Count 100/100            1 Frequency Sweep            MI[1] -14.72 dBm            2.4510660 GHz            CF 2.452 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz            Date: 14.SEP.2000 14:08:57         </p>

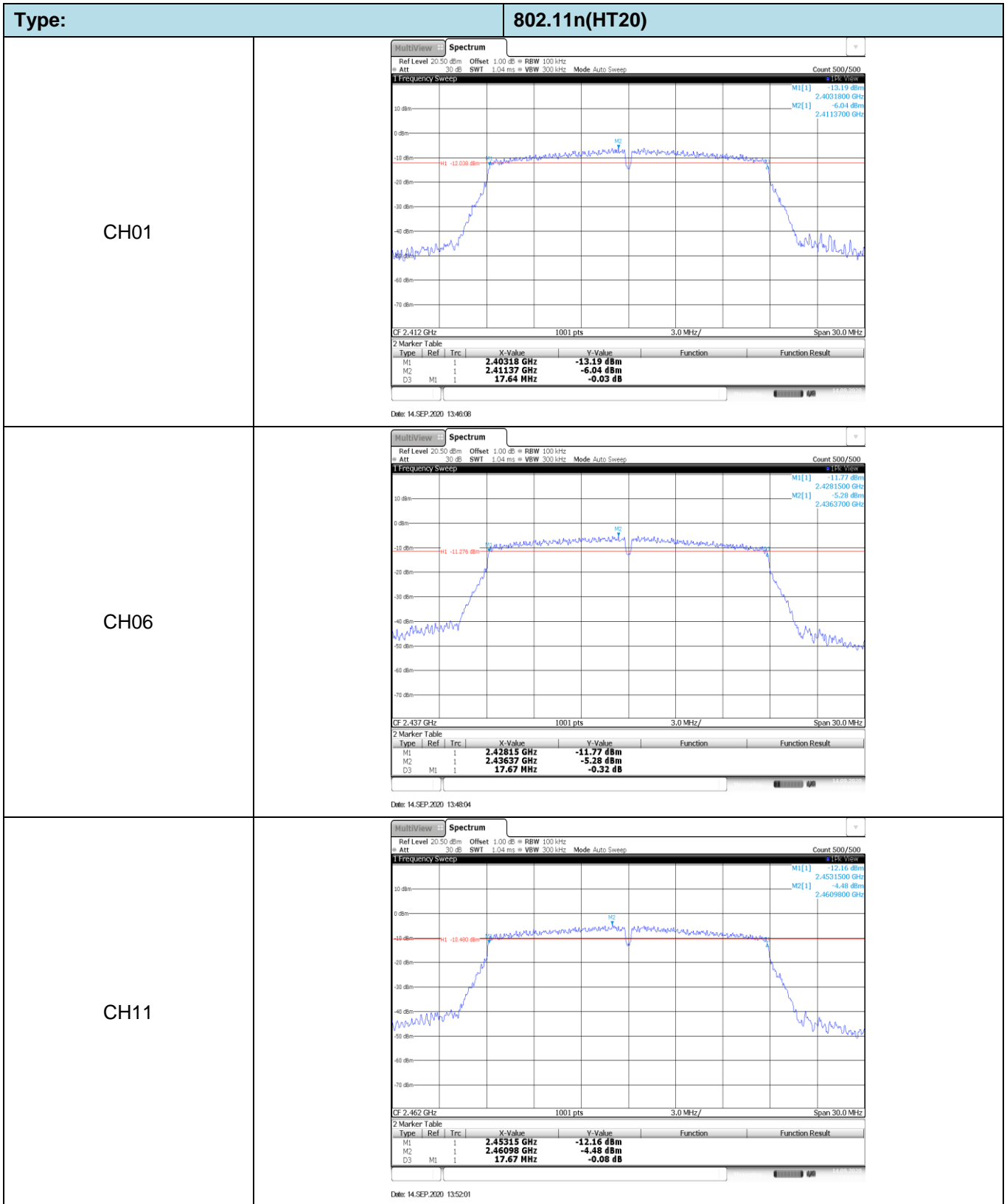
**Appendix C: 6dB bandwidth**

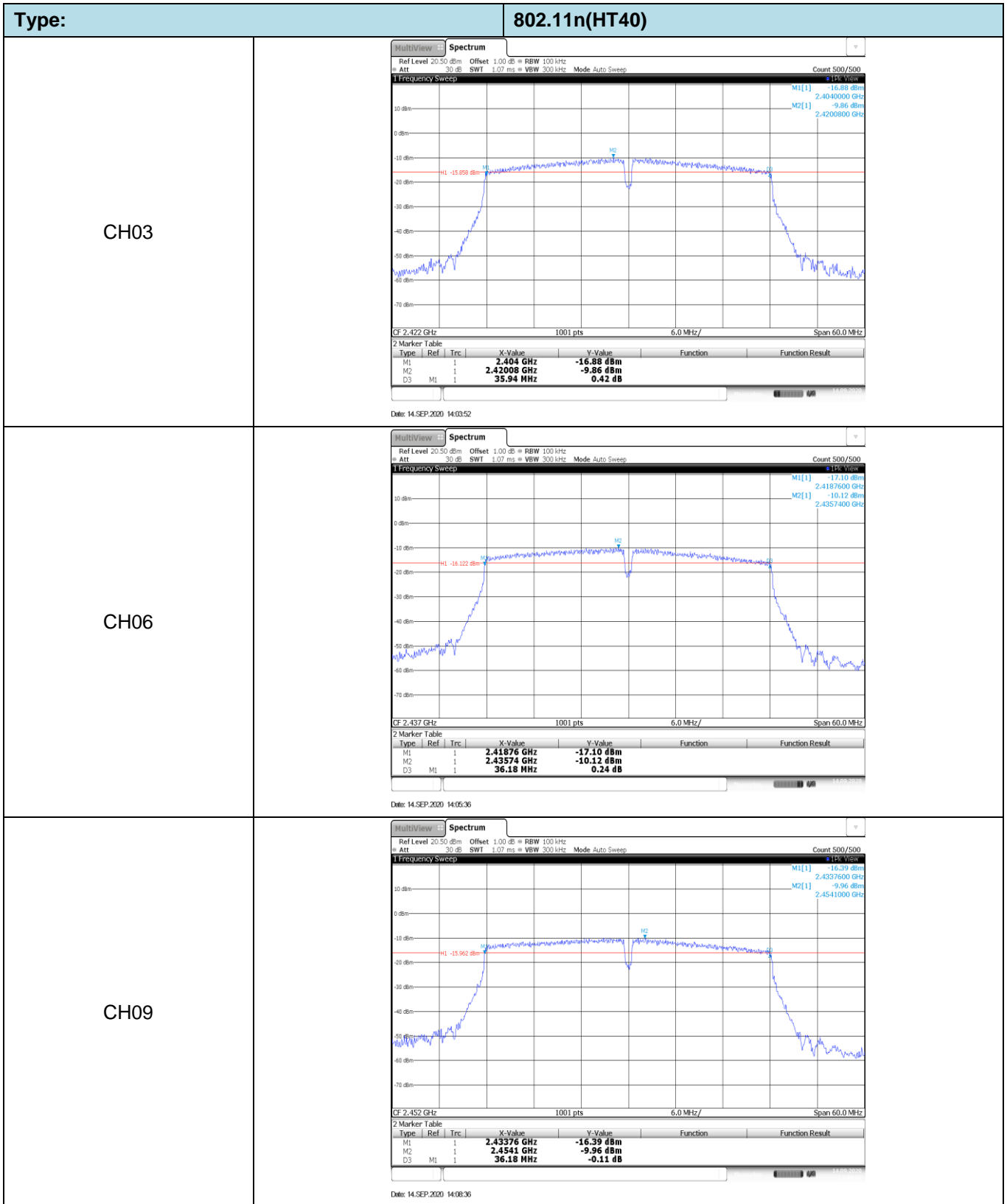
Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.13	≥0.5	Pass
	06	8.13		
	11	8.13		
802.11g	01	16.38	≥0.5	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.67		
	11	17.67		
802.11n(HT40)	03	35.94	≥0.5	Pass
	06	36.18		
	09	36.18		



Type:	802.11 b																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <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>2.40792 GHz</td> <td>-2.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41149 GHz</td> <td>5.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.13 MHz</td> <td>1.23 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 11:35:29</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40792 GHz	-2.50 dBm			M2	1		2.41149 GHz	5.71 dBm			D3	M1	1	8.13 MHz	1.23 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.40792 GHz	-2.50 dBm																									
M2	1		2.41149 GHz	5.71 dBm																									
D3	M1	1	8.13 MHz	1.23 dB																									
CH06	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <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>2.43292 GHz</td> <td>-0.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.43649 GHz</td> <td>6.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.13 MHz</td> <td>0.37 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 11:37:41</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.43292 GHz	-0.88 dBm			M2	1		2.43649 GHz	6.94 dBm			D3	M1	1	8.13 MHz	0.37 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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CH11	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <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>2.45792 GHz</td> <td>-0.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.46299 GHz</td> <td>6.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.13 MHz</td> <td>0.38 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 13:20:49</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.45792 GHz	-0.60 dBm			M2	1		2.46299 GHz	6.93 dBm			D3	M1	1	8.13 MHz	0.38 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.45792 GHz	-0.60 dBm																									
M2	1		2.46299 GHz	6.93 dBm																									
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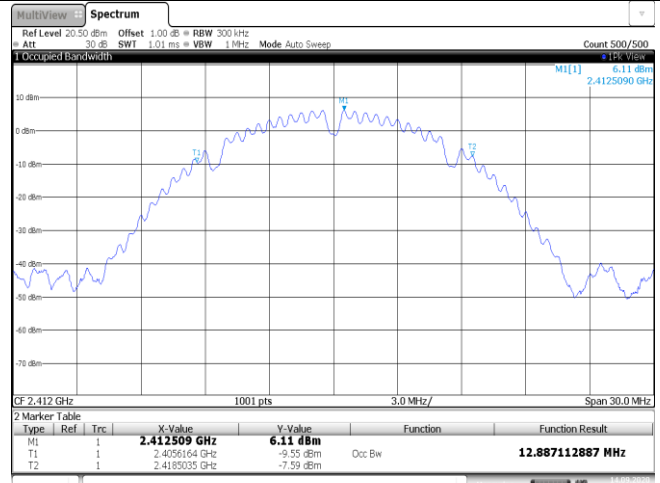
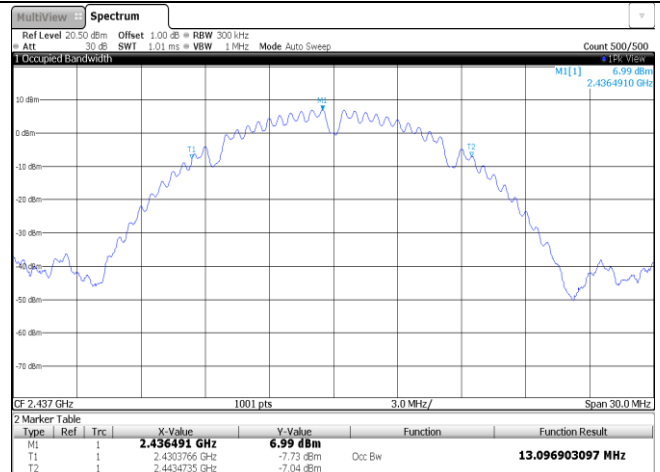
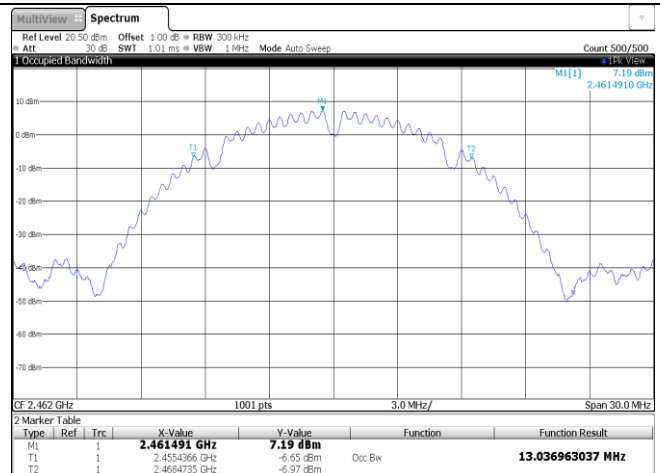


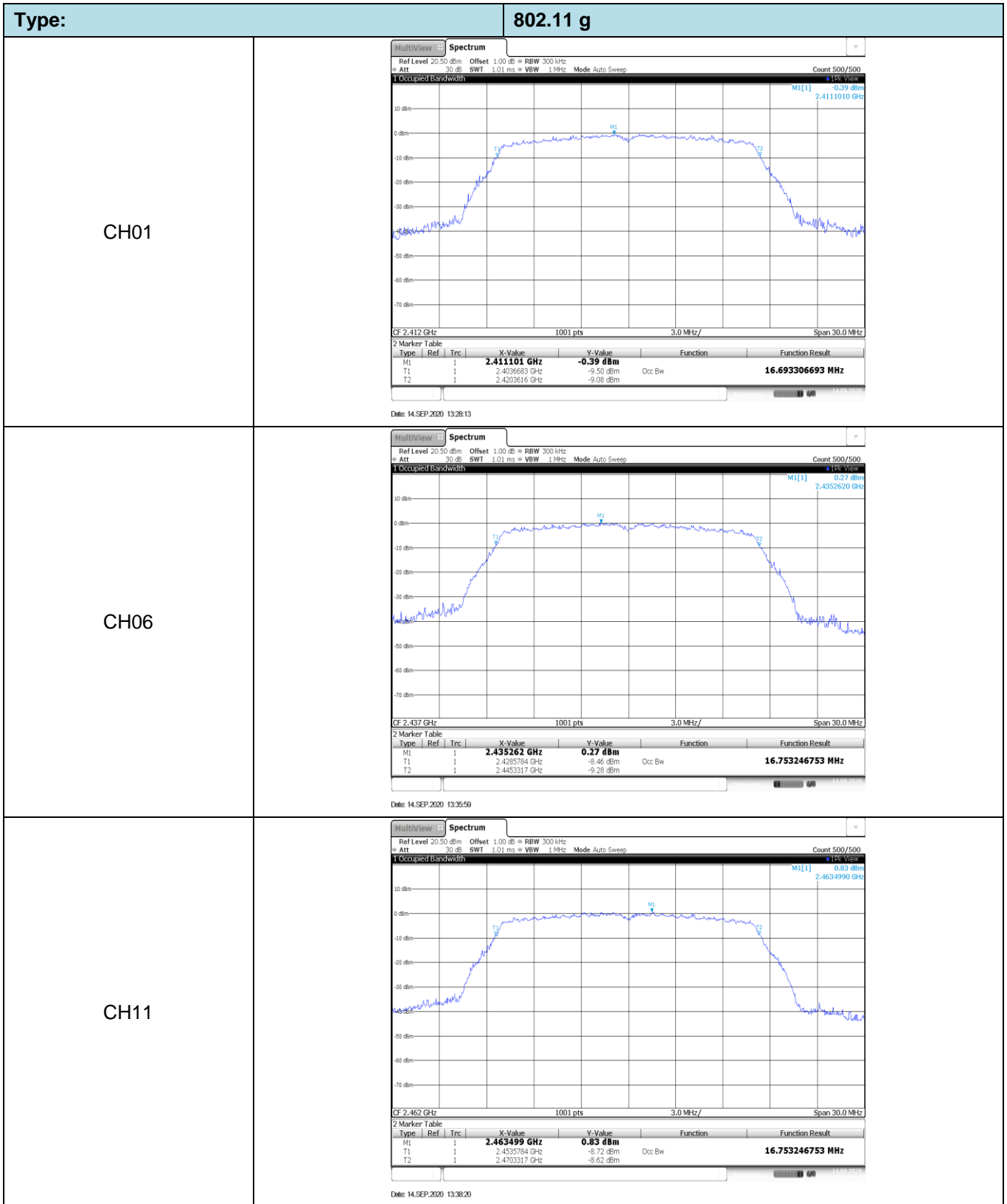


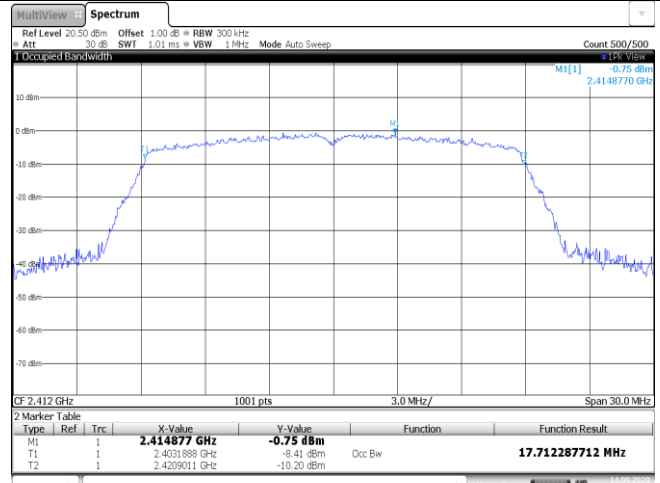
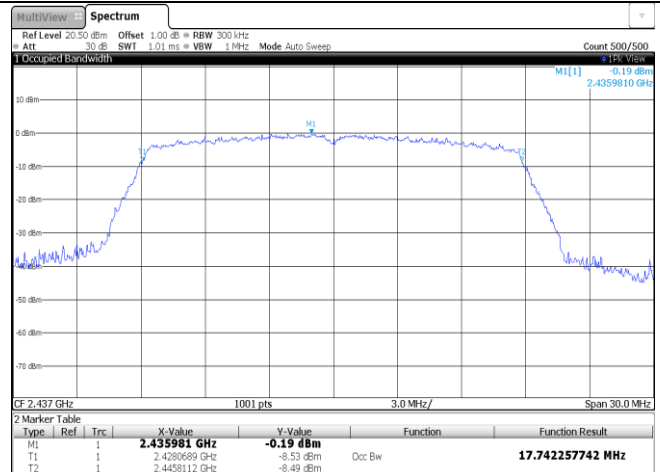
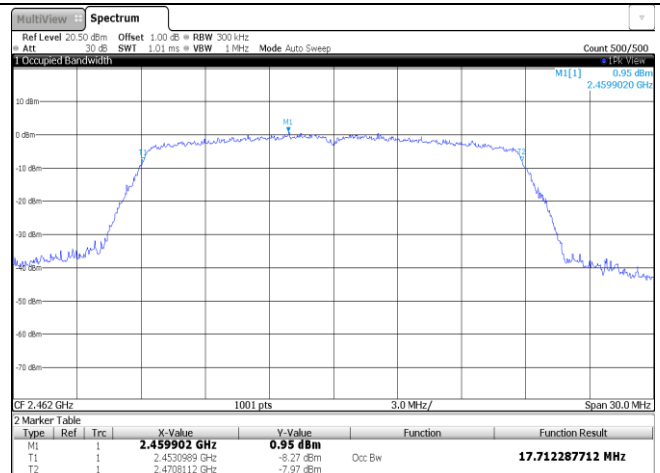


**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.89	-	Pass
	06	13.10		
	11	13.04		
802.11g	01	16.69	-	Pass
	06	16.75		
	11	16.75		
802.11n(HT20)	01	17.71	-	Pass
	06	17.74		
	11	17.71		
802.11n(HT40)	03	36.02	-	Pass
	06	36.14		
	09	36.14		

Type:	802.11 b																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SW1 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth MI[1] 6.11 dBm 2.412509 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>2.412509 GHz</td> <td>6.11 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4056164 GHz</td> <td>-9.55 dBm</td> <td>Occ Bw</td> <td>12.887112887 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4185035 GHz</td> <td>-7.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 11:35:34</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.412509 GHz	6.11 dBm			T1	1		2.4056164 GHz	-9.55 dBm	Occ Bw	12.887112887 MHz	T2	1		2.4185035 GHz	-7.59 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.412509 GHz	6.11 dBm																									
T1	1		2.4056164 GHz	-9.55 dBm	Occ Bw	12.887112887 MHz																							
T2	1		2.4185035 GHz	-7.59 dBm																									
CH06	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SW1 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth MI[1] 6.99 dBm 2.436491 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>2.436491 GHz</td> <td>6.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4303766 GHz</td> <td>-7.73 dBm</td> <td>Occ Bw</td> <td>13.096903097 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4434735 GHz</td> <td>-7.04 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 11:37:50</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.436491 GHz	6.99 dBm			T1	1		2.4303766 GHz	-7.73 dBm	Occ Bw	13.096903097 MHz	T2	1		2.4434735 GHz	-7.04 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.436491 GHz	6.99 dBm																									
T1	1		2.4303766 GHz	-7.73 dBm	Occ Bw	13.096903097 MHz																							
T2	1		2.4434735 GHz	-7.04 dBm																									
CH11	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SW1 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth MI[1] 7.19 dBm 2.461491 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>2.461491 GHz</td> <td>7.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4554366 GHz</td> <td>-6.65 dBm</td> <td>Occ Bw</td> <td>13.036963037 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4684735 GHz</td> <td>-6.97 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 13:20:57</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461491 GHz	7.19 dBm			T1	1		2.4554366 GHz	-6.65 dBm	Occ Bw	13.036963037 MHz	T2	1		2.4684735 GHz	-6.97 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.461491 GHz	7.19 dBm																									
T1	1		2.4554366 GHz	-6.65 dBm	Occ Bw	13.036963037 MHz																							
T2	1		2.4684735 GHz	-6.97 dBm																									



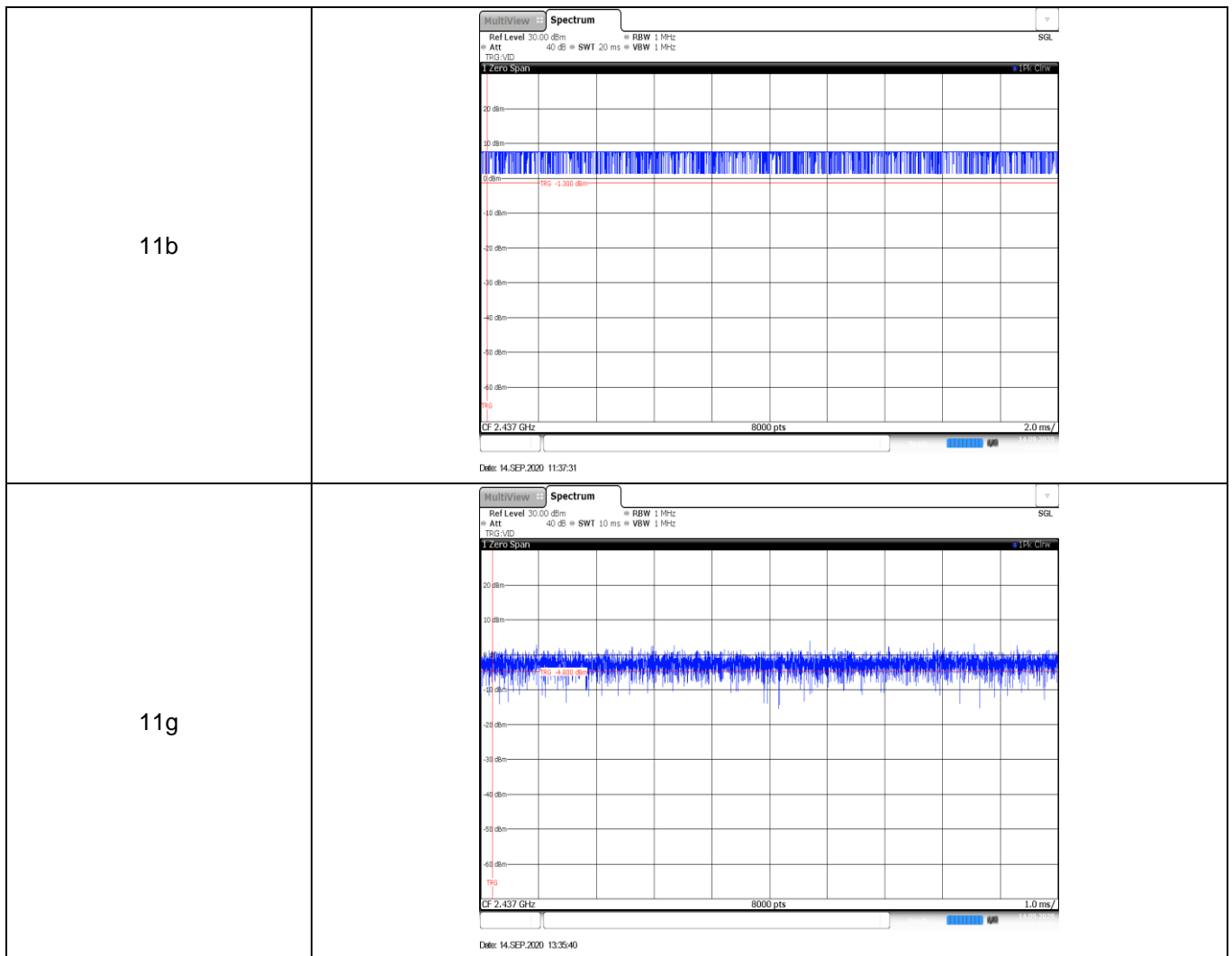
Type:	802.11n(HT20)																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 0.75 dBm 2.4148770 GHz</p> <p>GF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <table border="1"> <thead> <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>-0.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4031888 GHz</td> <td>-8.41 dBm</td> <td>Occ Bw</td> <td>17.712287712 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4299011 GHz</td> <td>-10.20 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2008 13:48:16</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.414877 GHz	-0.75 dBm			T1	1		2.4031888 GHz	-8.41 dBm	Occ Bw	17.712287712 MHz	T2	1		2.4299011 GHz	-10.20 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.414877 GHz	-0.75 dBm																									
T1	1		2.4031888 GHz	-8.41 dBm	Occ Bw	17.712287712 MHz																							
T2	1		2.4299011 GHz	-10.20 dBm																									
CH06	 <p>Ref Level 20.50 dBm Offset 1.00 dB BW 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] 0.19 dBm 2.4359810 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>2.435981 GHz</td> <td>-0.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4280689 GHz</td> <td>-8.53 dBm</td> <td>Occ Bw</td> <td>17.742257742 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4458112 GHz</td> <td>-8.49 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2008 13:48:13</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.435981 GHz	-0.19 dBm			T1	1		2.4280689 GHz	-8.53 dBm	Occ Bw	17.742257742 MHz	T2	1		2.4458112 GHz	-8.49 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.435981 GHz	-0.19 dBm																									
T1	1		2.4280689 GHz	-8.53 dBm	Occ Bw	17.742257742 MHz																							
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CH11	 <p>Ref Level 20.50 dBm Offset 1.00 dB BW 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] 0.95 dBm 2.4599020 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>2.459902 GHz</td> <td>0.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4530989 GHz</td> <td>-8.27 dBm</td> <td>Occ Bw</td> <td>17.712287712 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4708112 GHz</td> <td>-7.97 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2008 13:52:10</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.459902 GHz	0.95 dBm			T1	1		2.4530989 GHz	-8.27 dBm	Occ Bw	17.712287712 MHz	T2	1		2.4708112 GHz	-7.97 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.459902 GHz	0.95 dBm																									
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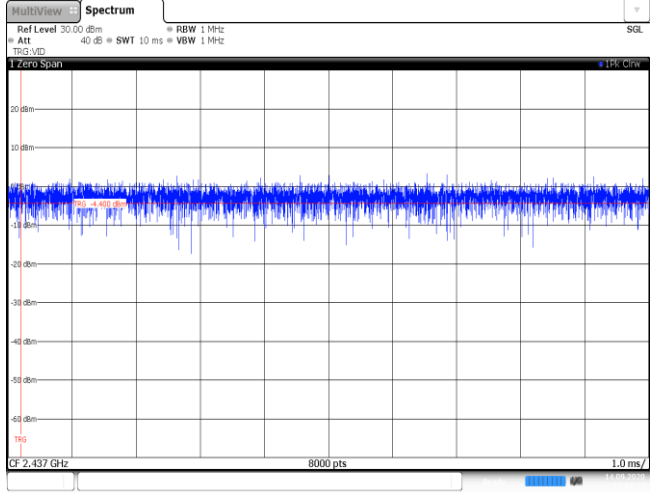
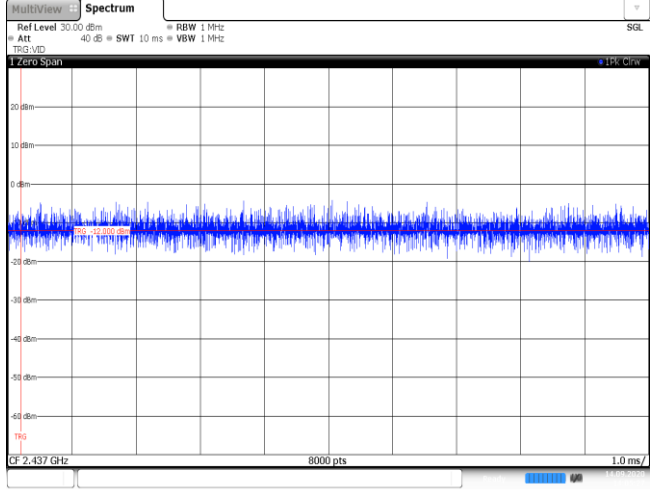


Type:	802.11n(HT40)																												
CH03	<p><b>Spectrum</b></p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 2.14 dBm 2.4254170 GHz</p> <p>GF 2.422 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz</p> <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>2.425417 GHz</td> <td>-2.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.403958 GHz</td> <td>-8.84 dBm</td> <td>Occ Bw</td> <td>36.023976024 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.439982 GHz</td> <td>-8.51 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2008 14:04:00</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.425417 GHz	-2.14 dBm			T1	1		2.403958 GHz	-8.84 dBm	Occ Bw	36.023976024 MHz	T2	1		2.439982 GHz	-8.51 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.425417 GHz	-2.14 dBm																									
T1	1		2.403958 GHz	-8.84 dBm	Occ Bw	36.023976024 MHz																							
T2	1		2.439982 GHz	-8.51 dBm																									
CH06	<p><b>Spectrum</b></p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 1.96 dBm 2.4335230 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>2.433523 GHz</td> <td>-1.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4187782 GHz</td> <td>-9.04 dBm</td> <td>Occ Bw</td> <td>36.143856144 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4549221 GHz</td> <td>-9.89 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2008 14:05:45</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.433523 GHz	-1.96 dBm			T1	1		2.4187782 GHz	-9.04 dBm	Occ Bw	36.143856144 MHz	T2	1		2.4549221 GHz	-9.89 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.433523 GHz	-1.96 dBm																									
T1	1		2.4187782 GHz	-9.04 dBm	Occ Bw	36.143856144 MHz																							
T2	1		2.4549221 GHz	-9.89 dBm																									
CH09	<p><b>Spectrum</b></p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 1.49 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>-1.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4337782 GHz</td> <td>-8.86 dBm</td> <td>Occ Bw</td> <td>36.143856144 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4659221 GHz</td> <td>-8.87 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2008 14:08:44</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.449842 GHz	-1.49 dBm			T1	1		2.4337782 GHz	-8.86 dBm	Occ Bw	36.143856144 MHz	T2	1		2.4659221 GHz	-8.87 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.449842 GHz	-1.49 dBm																									
T1	1		2.4337782 GHz	-8.86 dBm	Occ Bw	36.143856144 MHz																							
T2	1		2.4659221 GHz	-8.87 dBm																									

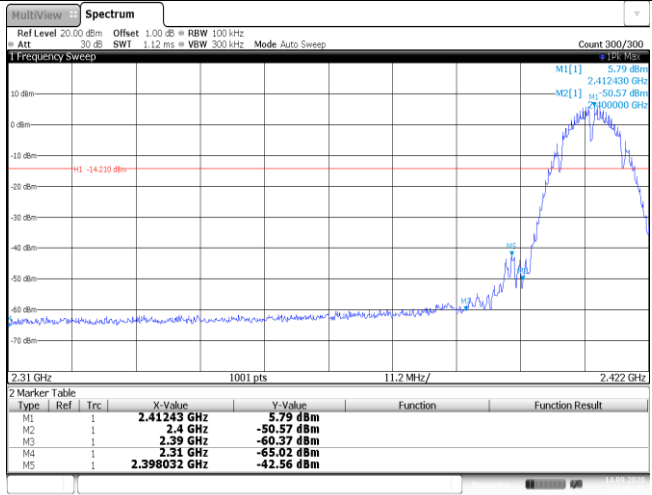
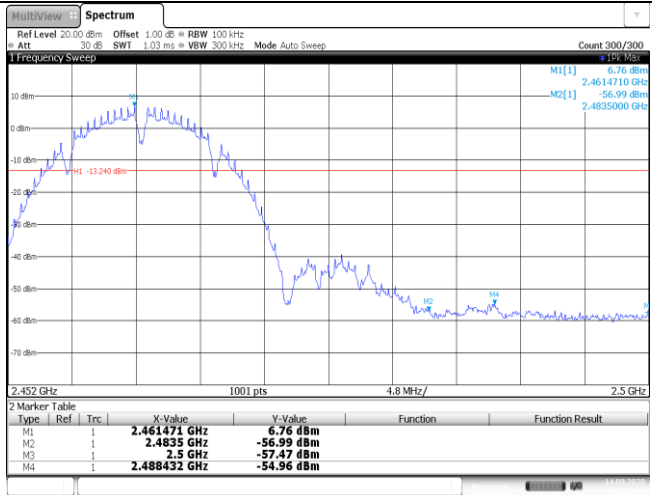
### Appendix E: Duty Cycle

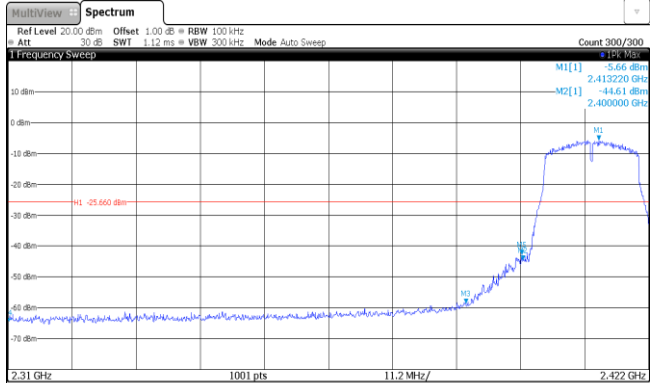
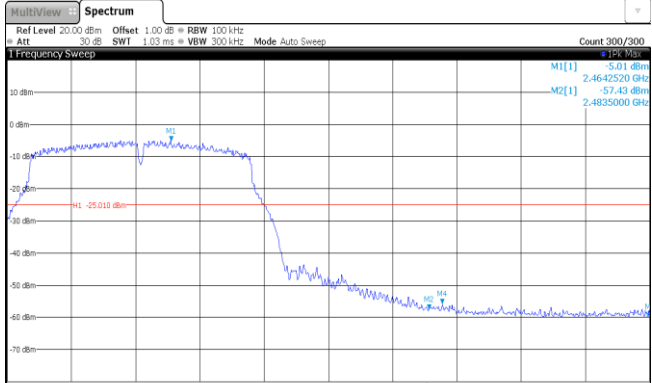
Modulation Type	Test Frequency (MHz)	T <sub>on time</sub> for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on time</sub> (kHz)
11b	2437	1.00	1.00	100%	1.0
11g	2437	1.00	1.00	100%	1.0
11n20	2437	1.00	1.00	100%	1.0
11n40	2437	1.00	1.00	100%	1.0



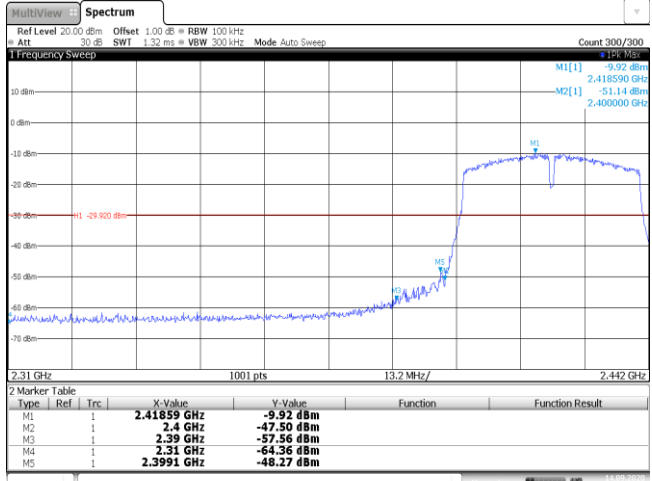
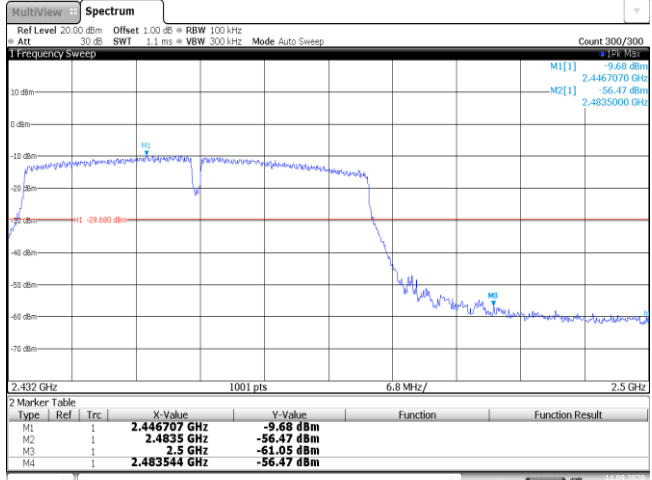
<p>11n20</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz TRIG:VID 1 Zero Span LPK: Chirp CF 2.437 GHz 8000 pts 1.0 ms/ Date: 14.SEP.2020 13:47:54</p>
<p>11n40</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz TRIG:VID 1 Zero Span LPK: Chirp CF 2.437 GHz 8000 pts 1.0 ms/ Date: 14.SEP.2020 14:05:27</p>

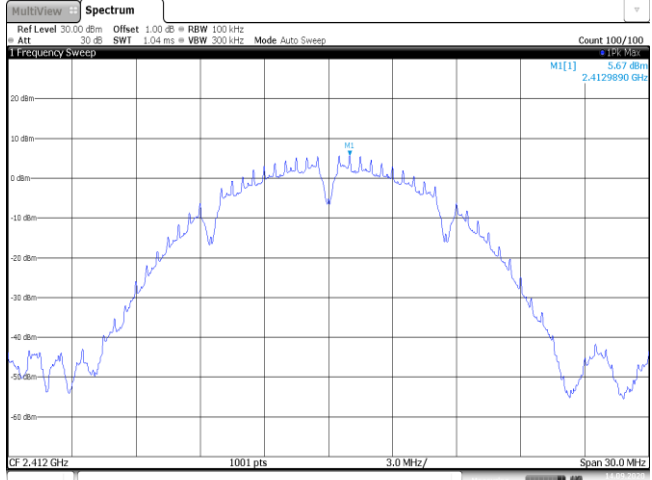
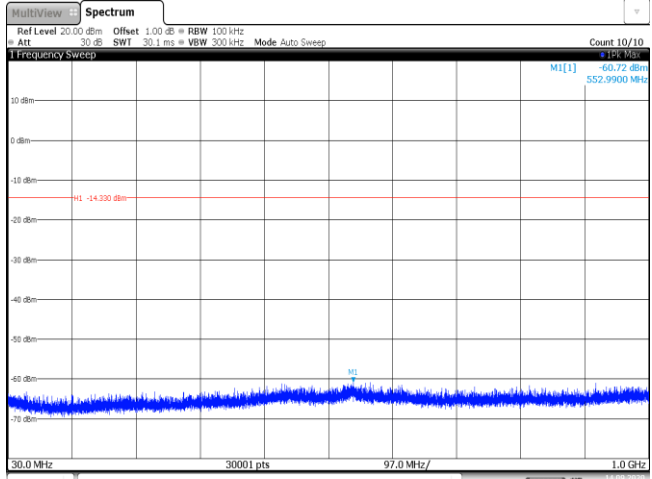
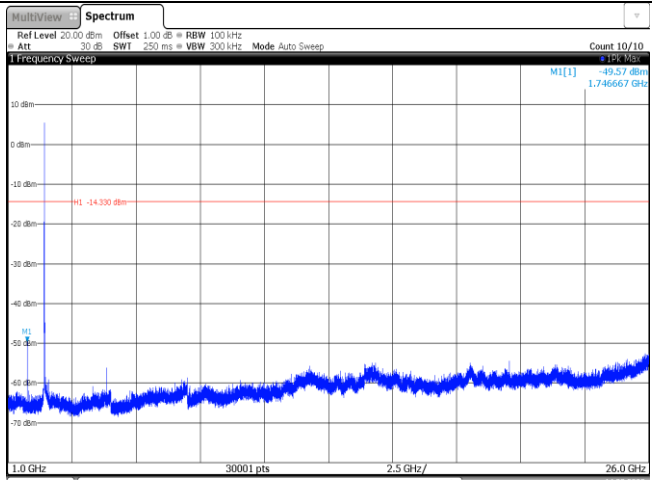
### Appendix F: Band edge and Spurious Emissions (conducted)

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>2.41243 GHz</td> <td>5.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-60.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-65.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.398032 GHz</td> <td>-42.56 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2020 11:34:14</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41243 GHz	5.79 dBm			M2	1		2.4 GHz	-50.57 dBm			M3	1		2.39 GHz	-60.37 dBm			M4	1		2.31 GHz	-65.02 dBm			M5	1		2.398032 GHz	-42.56 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41243 GHz	5.79 dBm																																									
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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>2.461471 GHz</td> <td>6.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-56.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-57.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.488432 GHz</td> <td>-54.96 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2020 13:21:46</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461471 GHz	6.76 dBm			M2	1		2.4835 GHz	-56.99 dBm			M3	1		2.5 GHz	-57.47 dBm			M4	1		2.488432 GHz	-54.96 dBm									
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Test Item:	Bandedge	Type:	802.11 g																																										
CH01		 <table border="1" data-bbox="683 607 1337 705"> <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>2.41322 GHz</td> <td>-5.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-44.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-42.82 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="683 723 798 741">Date: 14.SEP.2020 13:28:39</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41322 GHz	-5.66 dBm			M2	1		2.4 GHz	-44.61 dBm			M3	1		2.39 GHz	-58.52 dBm			M4	1		2.31 GHz	-63.72 dBm			M5	1		2.399824 GHz	-42.82 dBm			
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CH11		 <table border="1" data-bbox="683 1135 1337 1234"> <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>2.464252 GHz</td> <td>-5.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-57.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-58.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484496 GHz</td> <td>-55.64 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="683 1252 798 1270">Date: 14.SEP.2020 14:17:39</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464252 GHz	-5.01 dBm			M2	1		2.4835 GHz	-57.43 dBm			M3	1		2.5 GHz	-58.71 dBm			M4	1		2.484496 GHz	-55.64 dBm										
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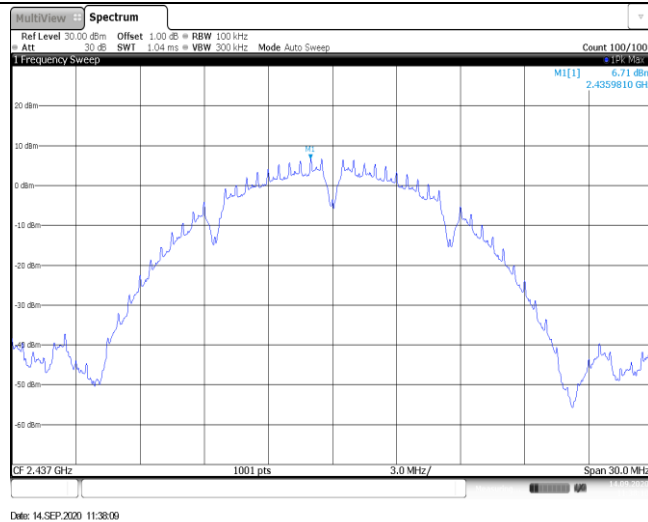
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	<p><b>Spectrum</b>          Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz          Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep          M1[1] 2.411090 GHz -6.20 dBm          M2[1] 2.41090 GHz -44.10 dBm          M3 2.40000 GHz</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</p> <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>2.41109 GHz</td> <td>-6.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-44.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-57.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.398816 GHz</td> <td>-45.02 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 13:44:59</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41109 GHz	-6.20 dBm			M2	1		2.4 GHz	-44.10 dBm			M3	1		2.39 GHz	-57.85 dBm			M4	1		2.31 GHz	-64.22 dBm			M5	1		2.398816 GHz	-45.02 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M4	1		2.31 GHz	-64.22 dBm																																									
M5	1		2.398816 GHz	-45.02 dBm																																									
CH11	<p><b>Spectrum</b>          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          M1[1] 2.460991 GHz -4.67 dBm          M2[1] 2.483500 GHz -55.30 dBm          M3 2.4835000 GHz</p> <p>2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz</p> <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>2.460991 GHz</td> <td>-4.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-55.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-58.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.48608 GHz</td> <td>-54.28 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.SEP.2000 13:55:52</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.460991 GHz	-4.67 dBm			M2	1		2.4835 GHz	-55.30 dBm			M3	1		2.5 GHz	-58.29 dBm			M4	1		2.48608 GHz	-54.28 dBm									
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Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

Test Item:	SE	Type:	802.11b
<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] 5.67 dBm 2.4129890 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 14.SEP.2000 11:35:41</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] -60.72 dBm 552.9900 MHz H1 -14.330 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 14.SEP.2000 11:35:57</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] -49.57 dBm 1.746667 GHz H1 -14.330 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 14.SEP.2000 11:36:13</p>	

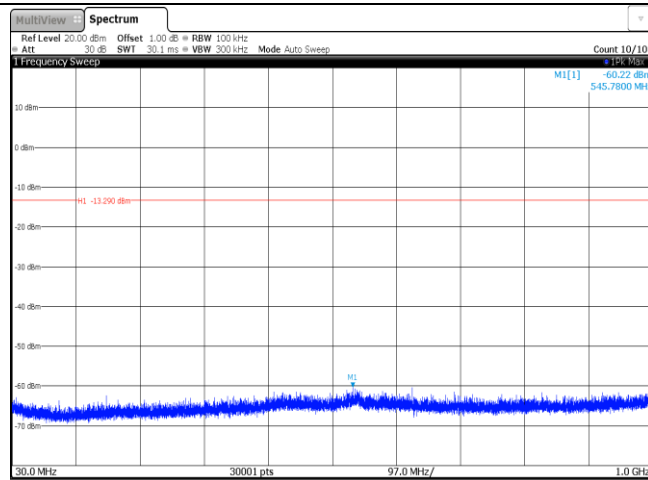


CH06  
Reference level



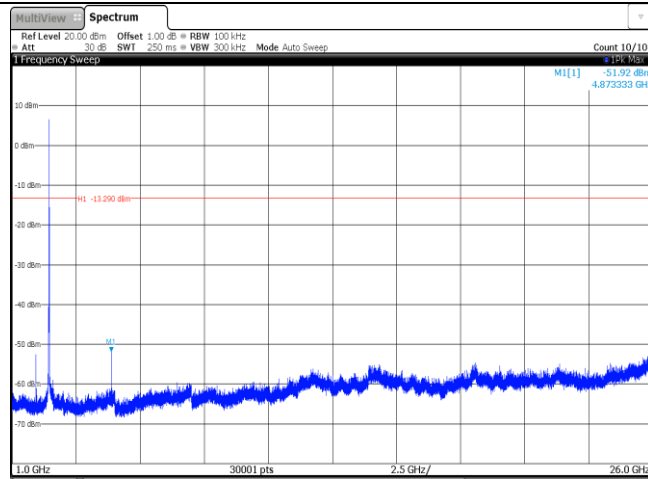
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CH06  
30MHz~1000MHz



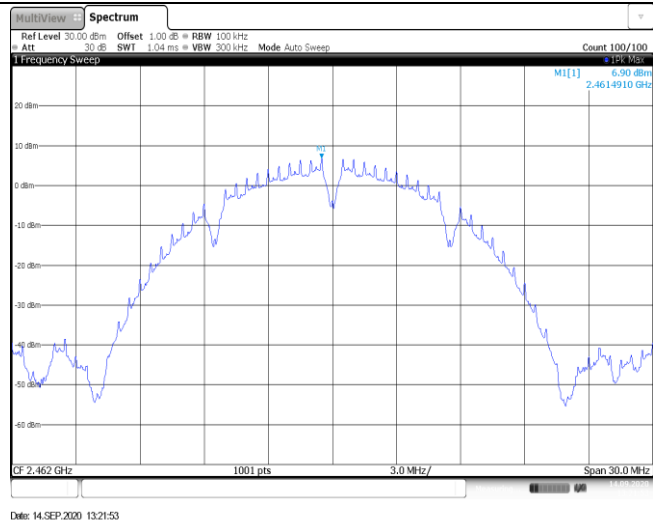
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CH06  
1GHz~26GHz

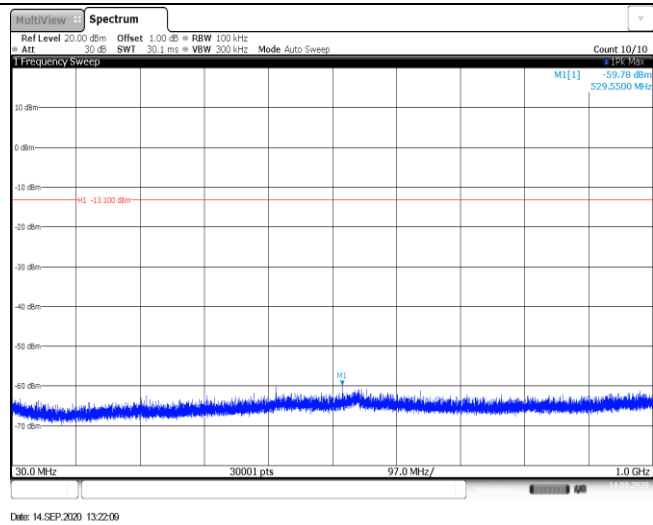


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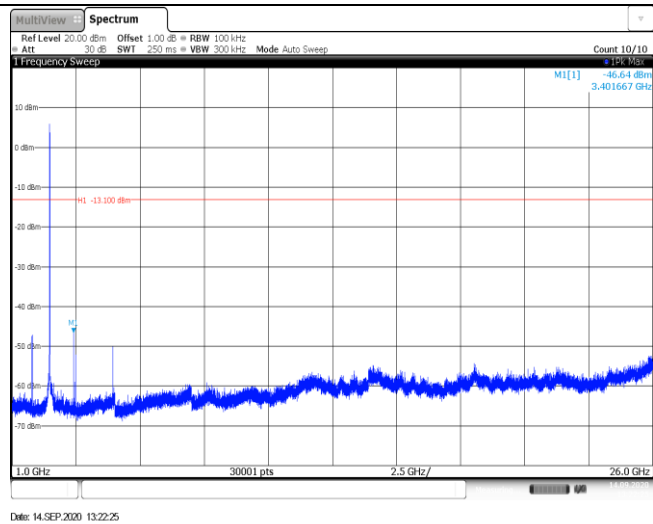
CH11  
Reference level

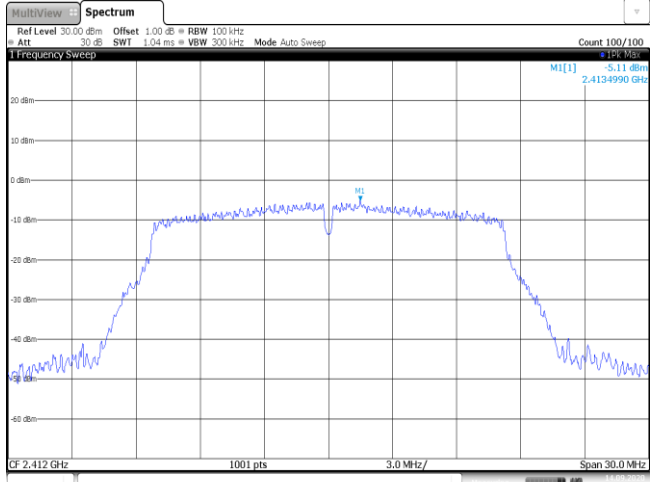
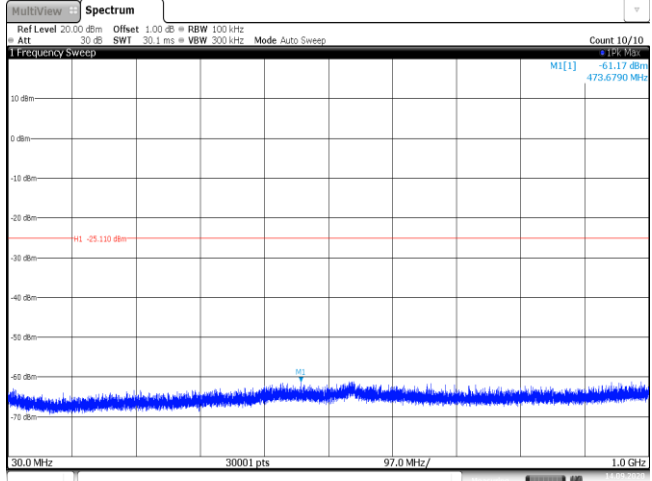
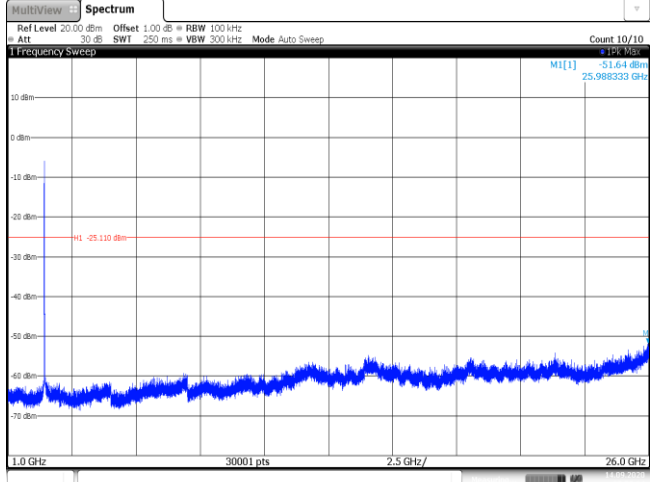


CH11  
30MHz~1000MHz



CH11  
1GHz~26GHz



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

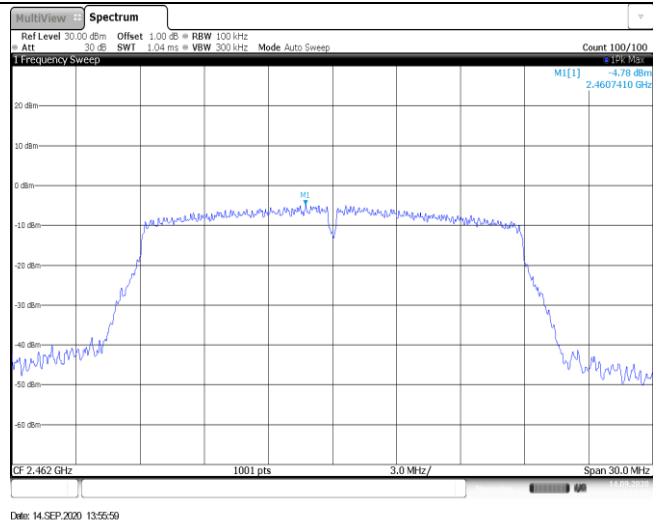
<p>CH06 Reference level</p>	<p>Date: 14.SEP.2020 13:37:00</p>
<p>CH06 30MHz~1000MHz</p>	<p>Date: 14.SEP.2020 13:37:16</p>
<p>CH06 1GHz~26GHz</p>	<p>Date: 14.SEP.2020 13:37:33</p>

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

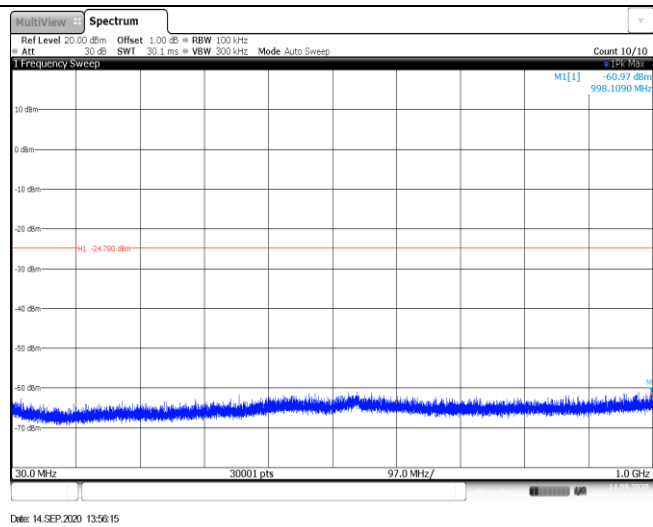
Test Item:	SE	Type:	802.11n(HT20)
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

<p>CH06 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -5.27 dBm 2.4376290 GHz CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 14.SEP.2020 13:50:17</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] -60.42 dBm 553.1200 MHz H1 -25.270 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 14.SEP.2020 13:50:33</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] -43.10 dBm 1.765833 GHz H1 -25.270 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 14.SEP.2020 13:50:49</p>

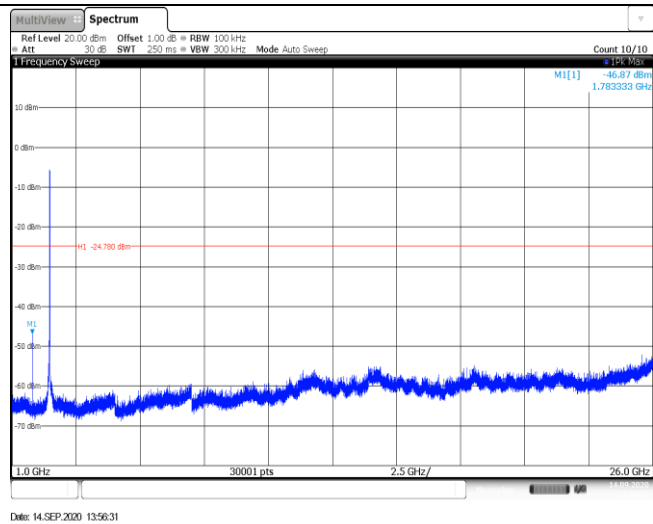
CH11  
Reference level



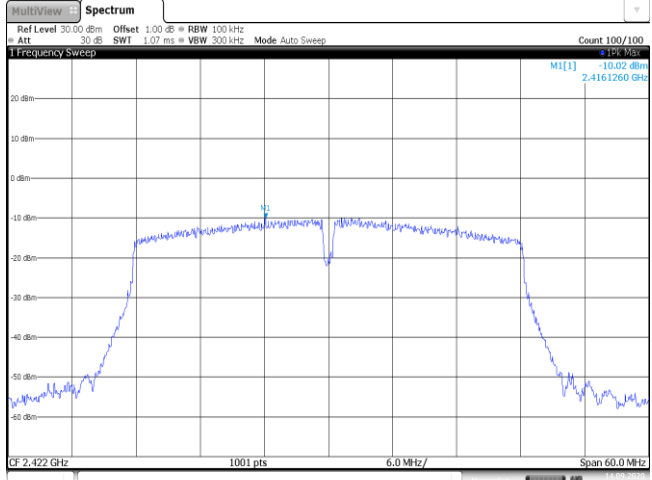
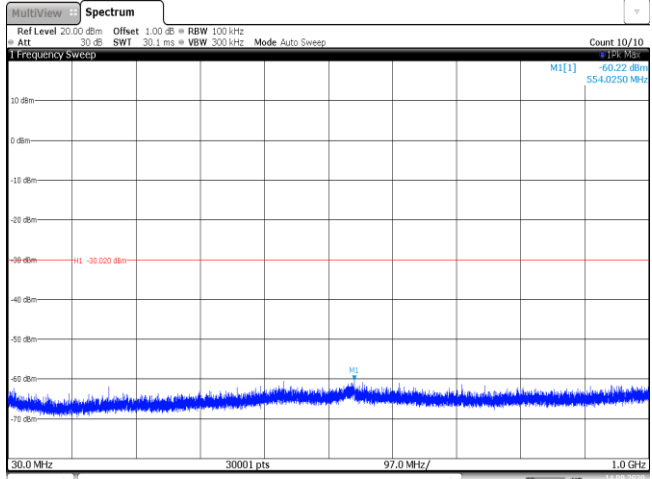
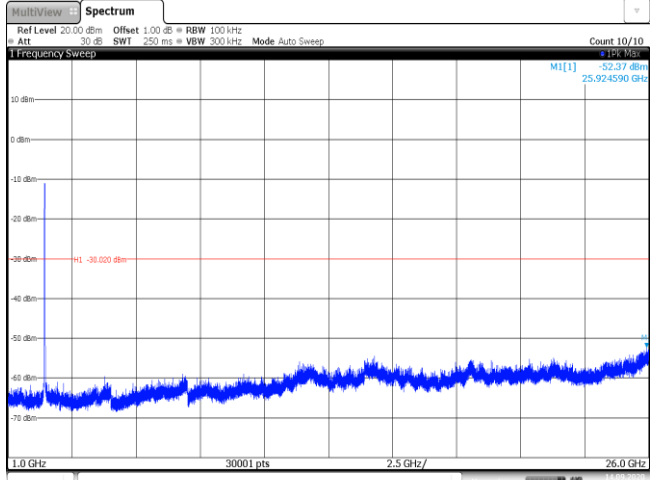
CH11  
30MHz~1000MHz



CH11  
1GHz~26GHz

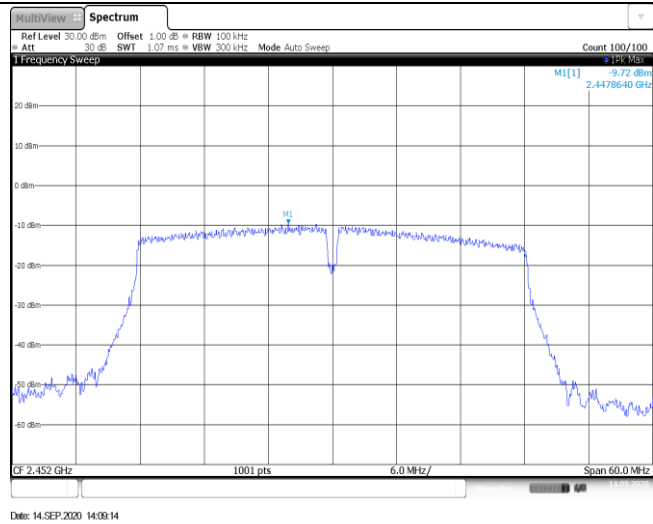




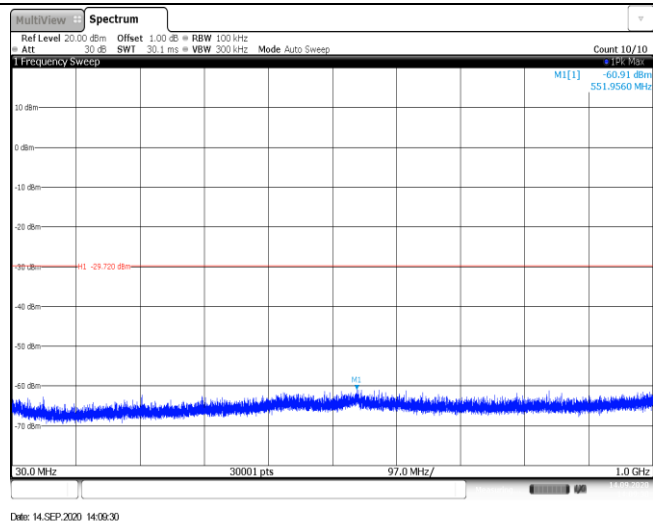
Test Item:	SE	Type:	802.11n(HT40)
<p>CH03 Reference level</p>			
<p>CH03 30MHz~1000MHz</p>			
<p>CH03 1GHz~26GHz</p>			

<p>CH06 Reference level</p>	<p>Date: 14.SEP.2020 14:07:22</p>
<p>CH06 30MHz~1000MHz</p>	<p>Date: 14.SEP.2020 14:07:38</p>
<p>CH06 1GHz~26GHz</p>	<p>Date: 14.SEP.2020 14:08:01</p>

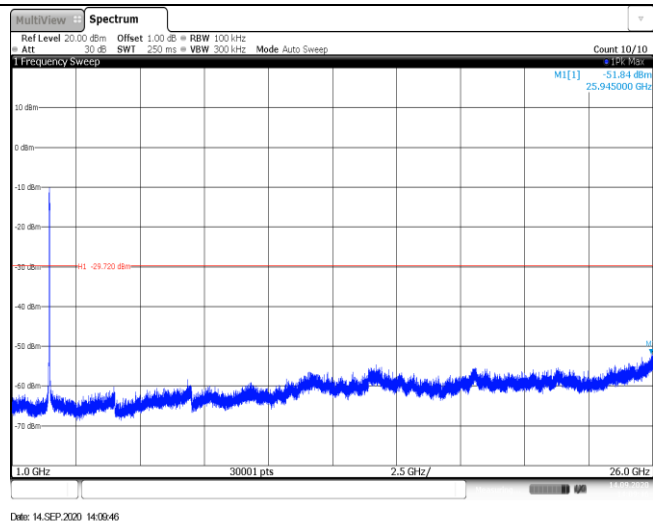
CH09  
Reference level



CH09  
30MHz~1000MHz



CH09  
1GHz~26GHz



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