

APPENDIX REPORT

Project No.	SHT2202058401EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT22020584001	Model No.	U55
Start test date	2022-03-09	Finish date	2022-03-09
Temperature	24.0℃	Humidity	28%
Test Engineer	Xiaoqin Li	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

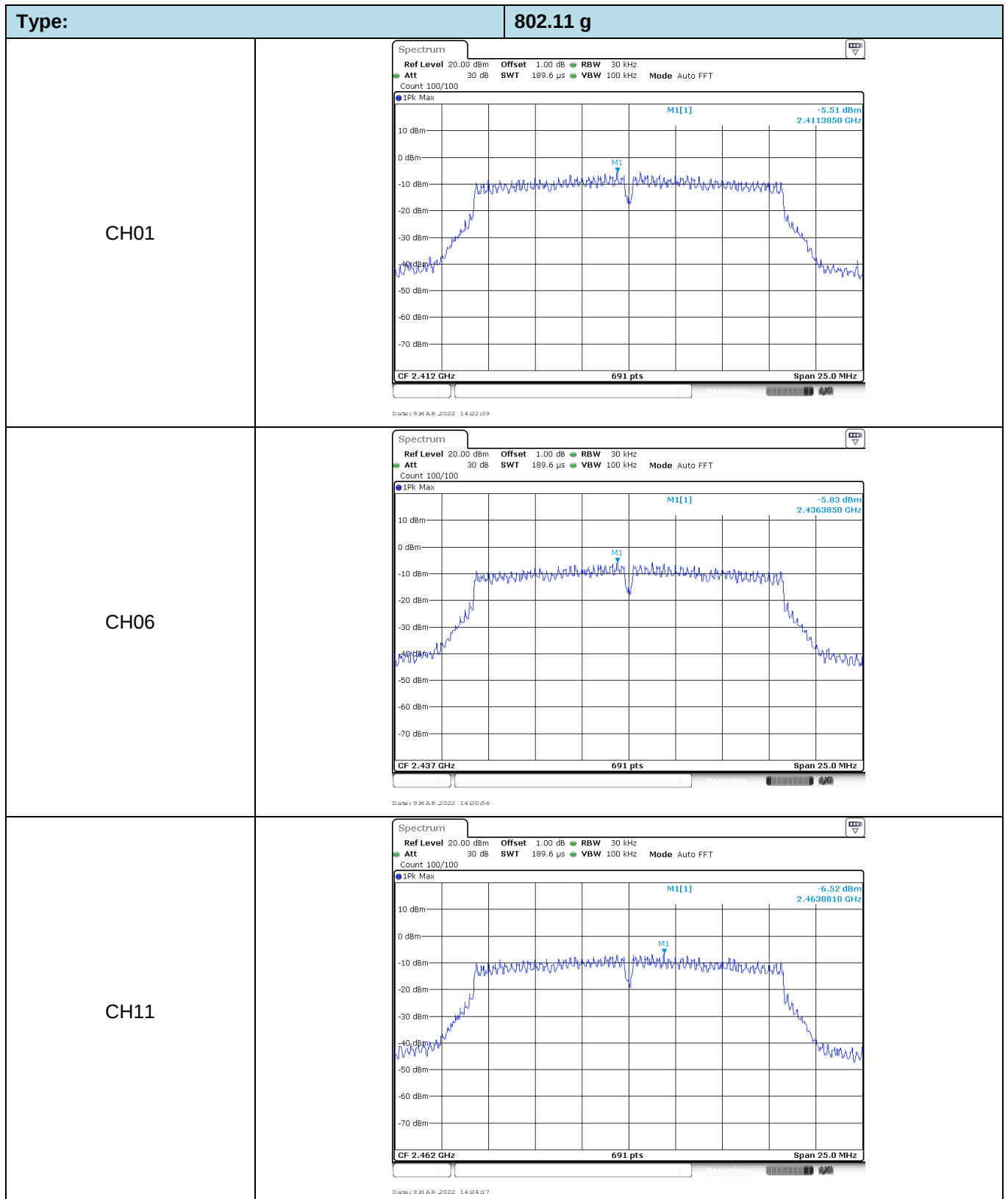
Appendix A: Conducted Peak Output Power

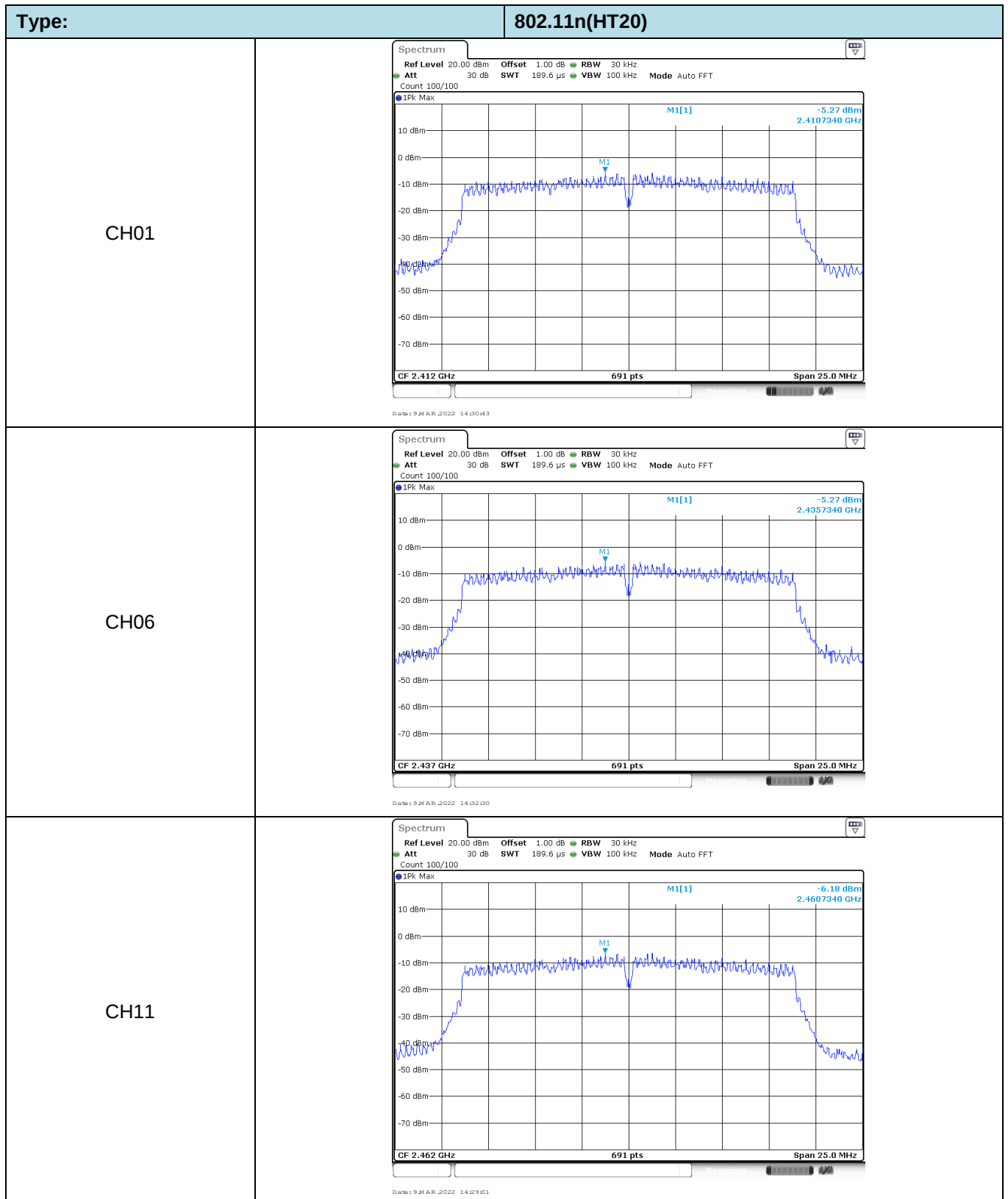
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.67	12.06	≤ 30.00	Pass
	06	13.84	11.75		
	11	13.96	12.01		
802.11g	01	15.42	12.15	≤ 30.00	Pass
	06	15.41	12.02		
	11	14.76	11.32		
802.11n (HT20)	01	15.26	11.82	≤ 30.00	Pass
	06	15.33	11.90		
	11	14.58	11.22		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-0.34	≤8.00	Pass
	06	-0.07		
	11	-0.01		
802.11g	01	-5.51	≤8.00	Pass
	06	-5.83		
	11	-6.52		
802.11n(HT20)	01	-5.27	≤8.00	Pass
	06	-5.27		
	11	-6.18		

Type:	802.11 b
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT IPK Max M1 M1[1] -0.34 dBm 2.4113750 GHz CF 2.412 GHz 691 pts Span 16.0 MHz Date: 9 MAR. 2022 14:09:35
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT IPK Max M1 M1[1] -0.07 dBm 2.4379960 GHz CF 2.437 GHz 691 pts Span 16.0 MHz Date: 9 MAR. 2022 14:12:39
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT IPK Max M1 M1[1] -0.01 dBm 2.4629960 GHz CF 2.462 GHz 691 pts Span 16.0 MHz Date: 9 MAR. 2022 14:14:28

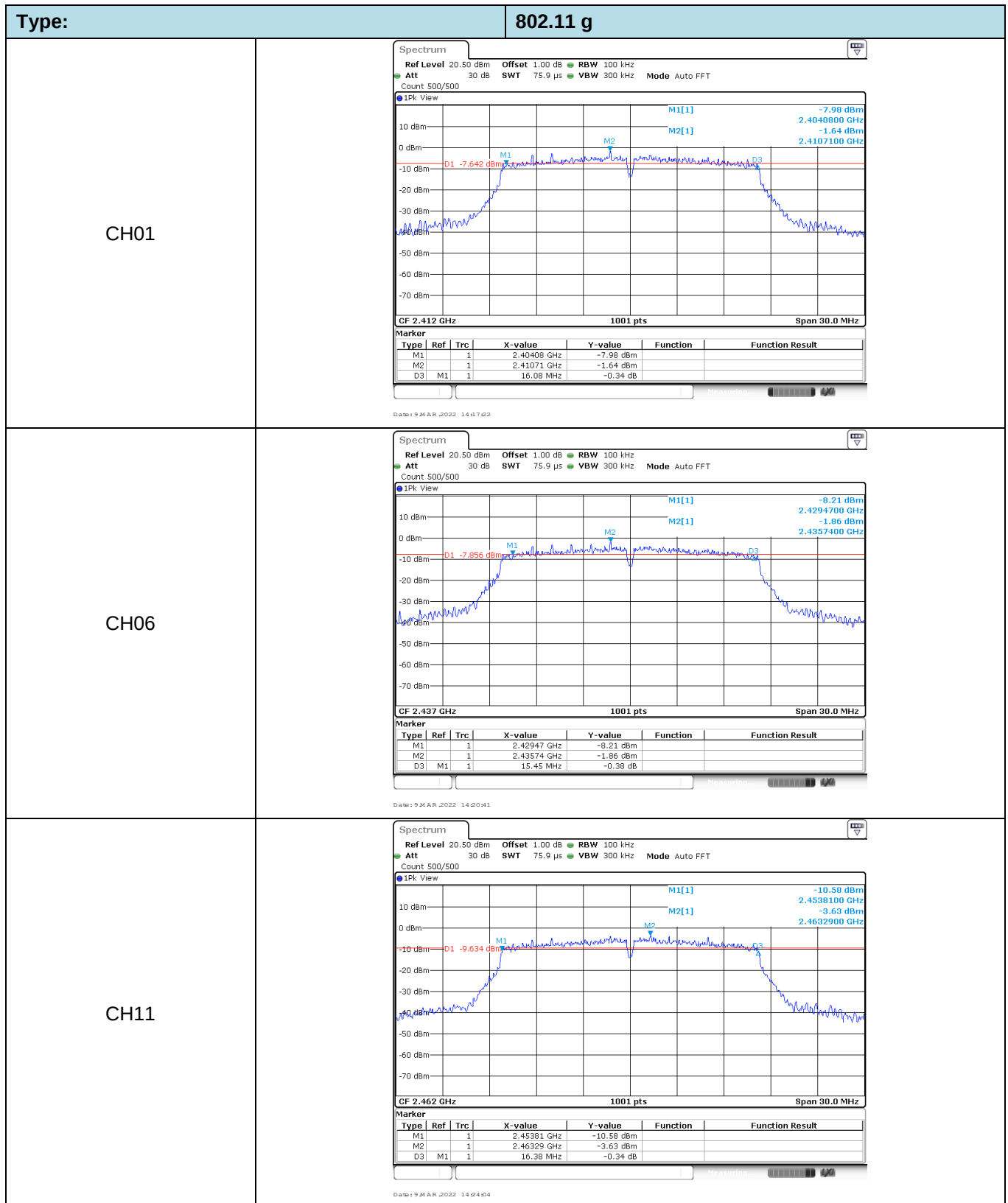


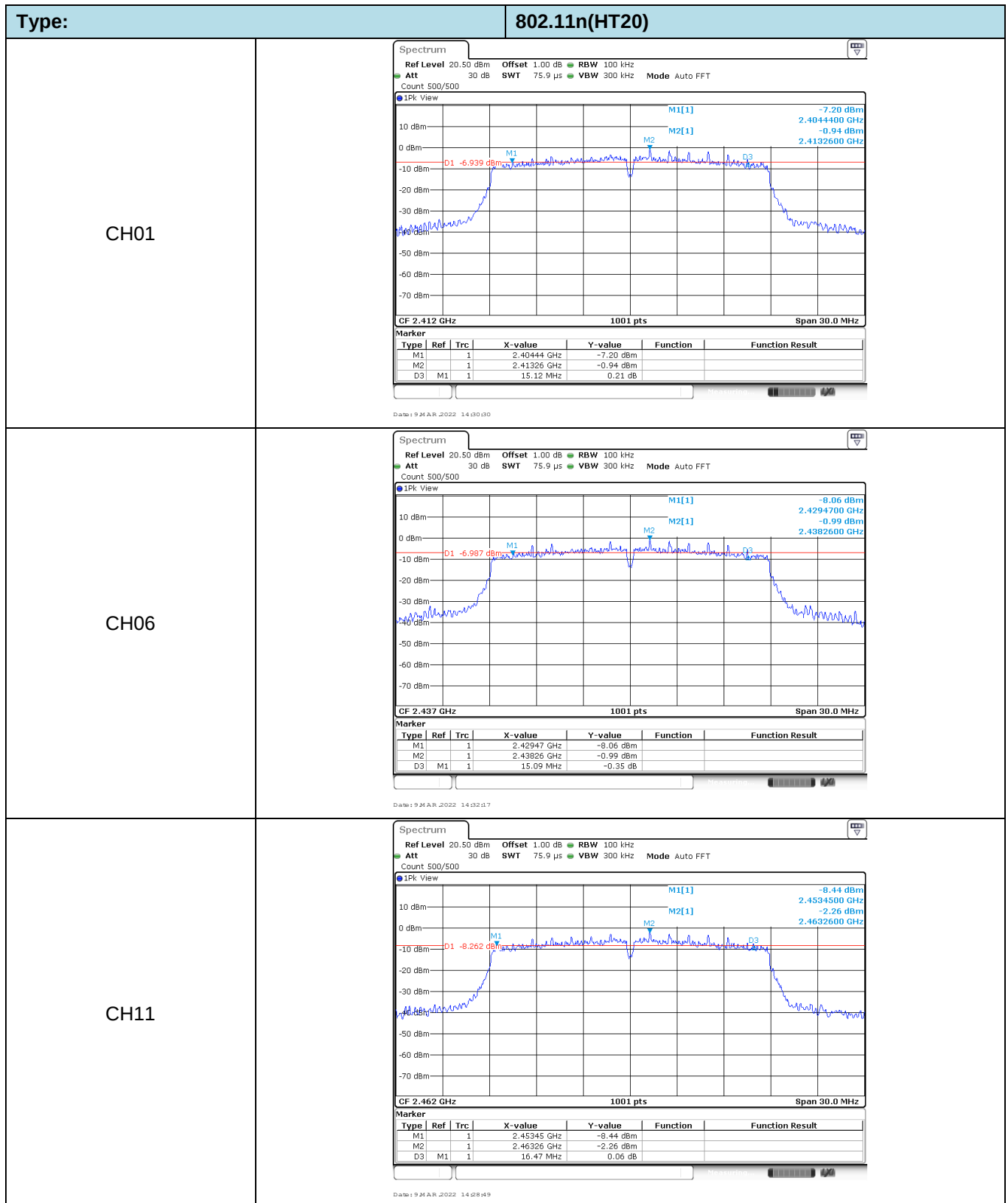


Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.60	≥0.5	Pass
	06	9.60		
	11	10.11		
802.11g	01	16.08	≥0.5	Pass
	06	15.45		
	11	16.38		
802.11n(HT20)	01	15.12	≥0.5	Pass
	06	15.09		
	11	16.47		

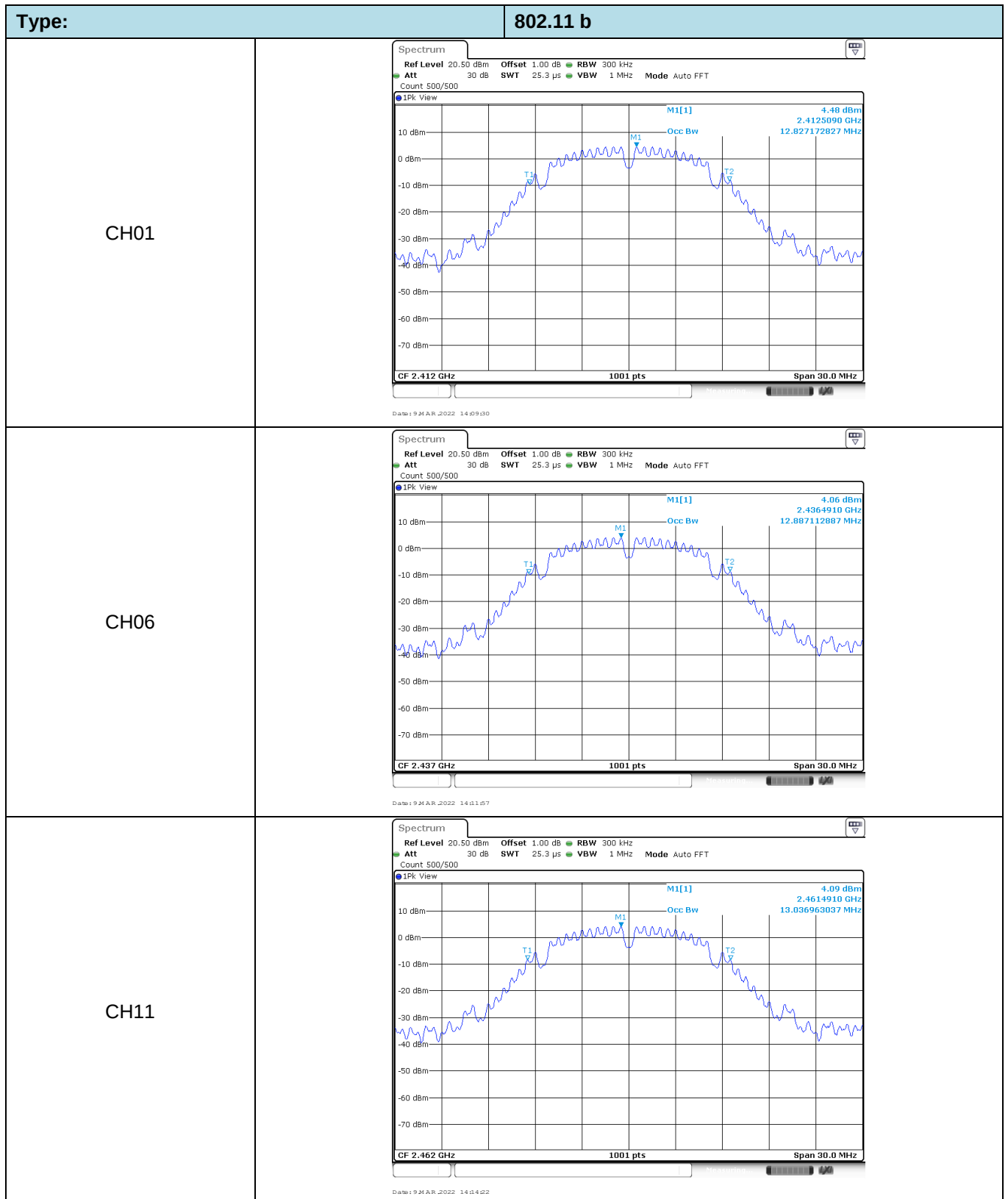
Type:	802.11 b																												
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M1[1] M2[1] -2.01 dBm 2.4069600 GHz 4.31 dBm 2.4110100 GHz D1 -1.688 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.40696 GHz</td><td>-2.01 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.41101 GHz</td><td>4.31 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>9.6 MHz</td><td>-0.28 dB</td><td></td><td></td></tr></table> Date: 9 MAR 2022 14:09:22	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40696 GHz	-2.01 dBm			M2		1	2.41101 GHz	4.31 dBm			D3	M1	1	9.6 MHz	-0.28 dB		
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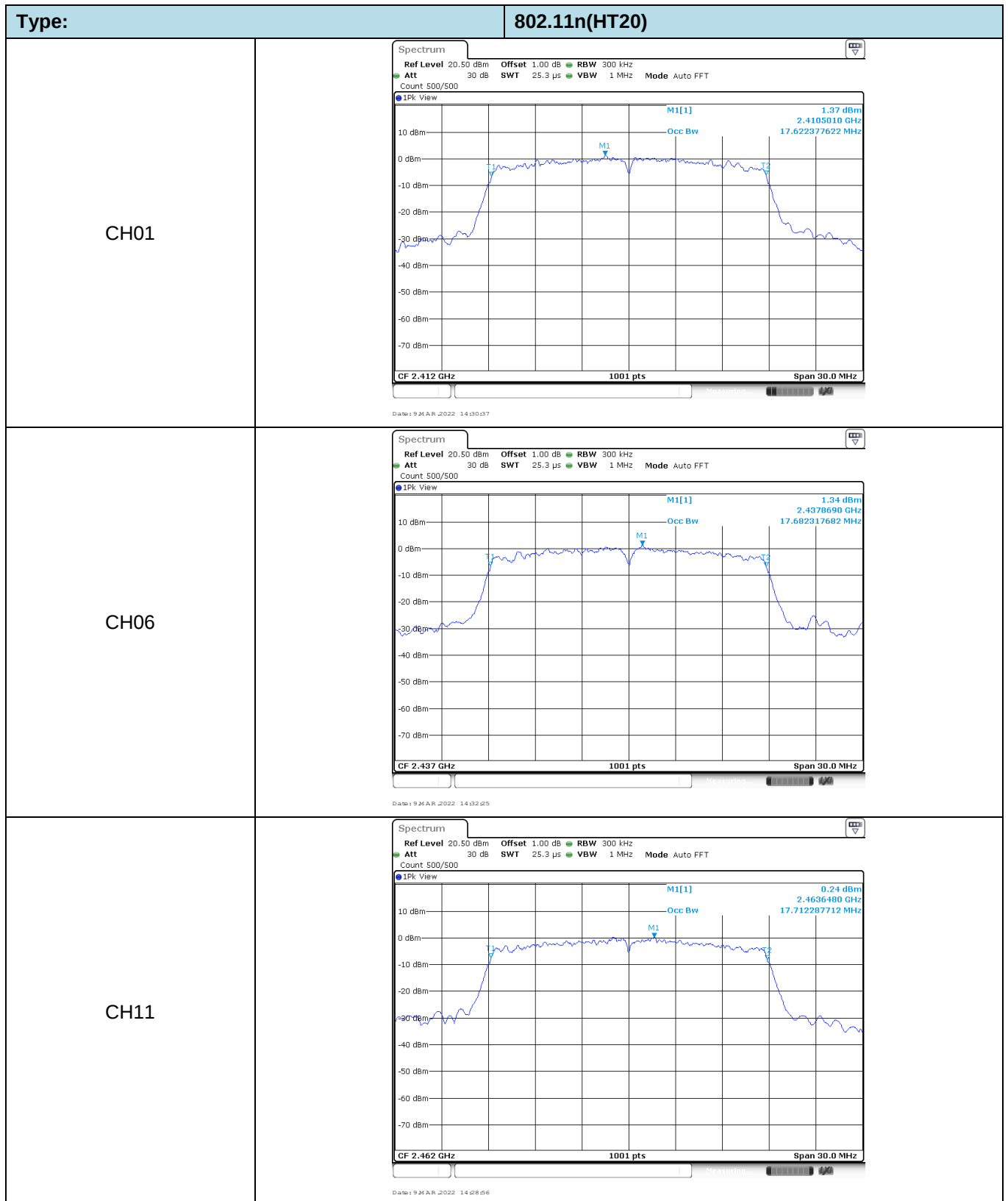


Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.83	-	Pass
	06	12.89		
	11	13.04		
802.11g	01	16.66	-	Pass
	06	16.81		
	11	16.72		
802.11n(HT20)	01	17.62	-	Pass
	06	17.68		
	11	17.71		

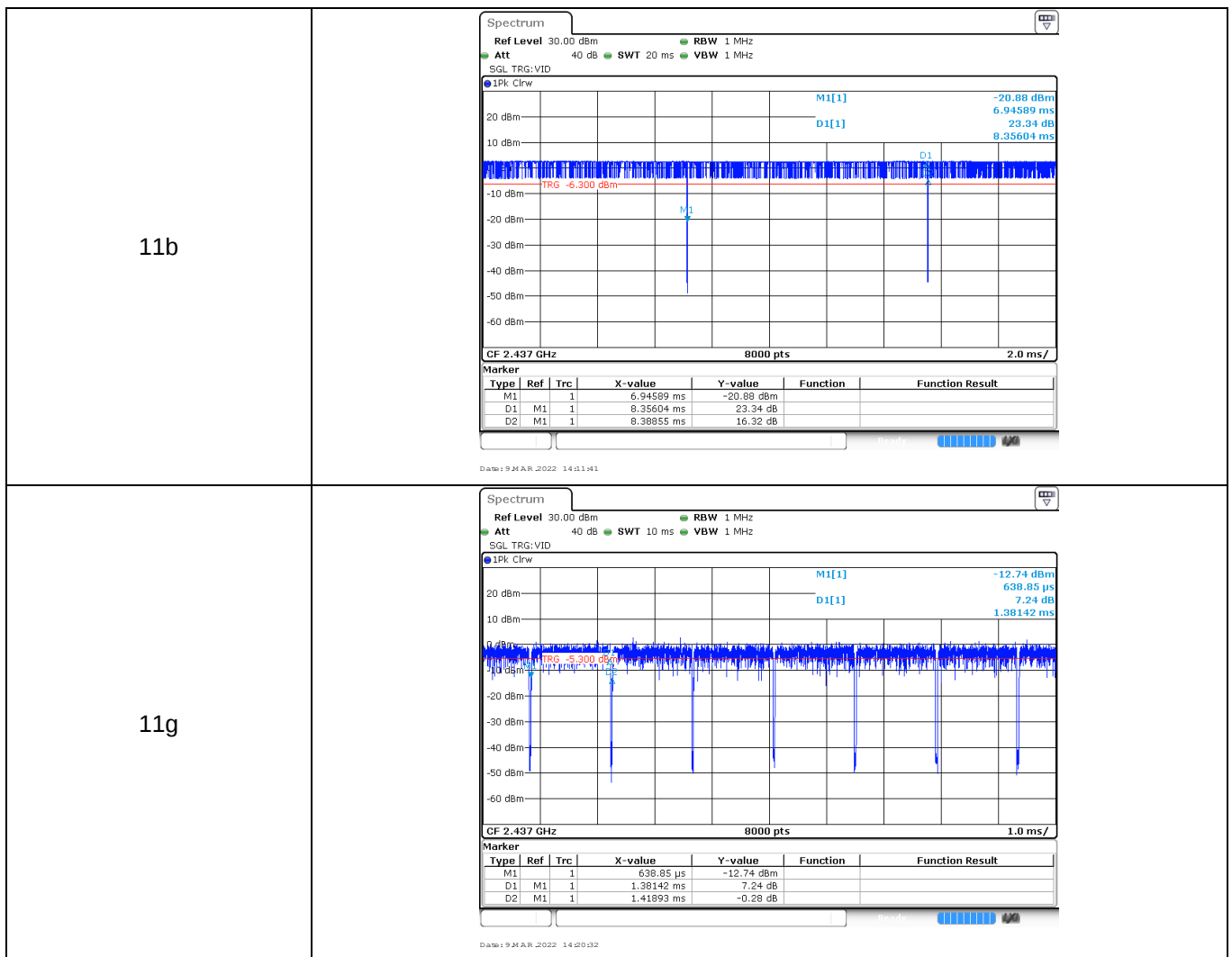


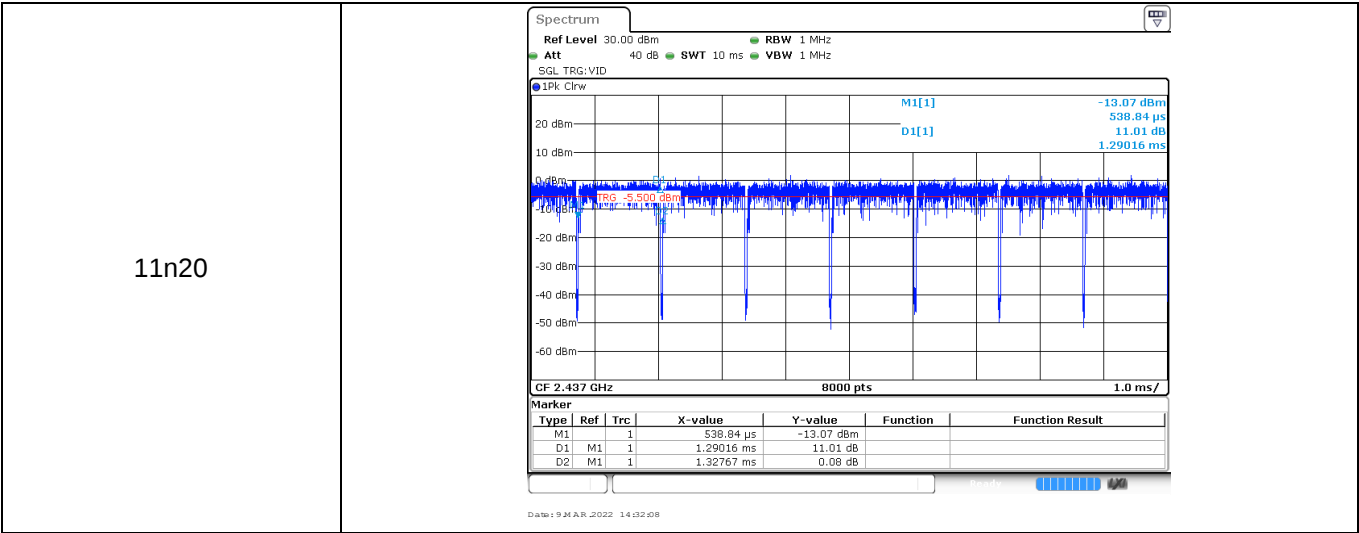
Type:		802.11 g
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 1.24 dBm 2.4105010 GHz 16.663336663 MHz Occ Bw T1 T2 M1 CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 9 MAR 2022 14:17:30	
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 0.80 dBm 2.4361610 GHz 16.813186813 MHz Occ Bw T1 T2 M1 CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 9 MAR 2022 14:20:48	
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 0.15 dBm 2.4627190 GHz 16.723276723 MHz Occ Bw T1 T2 M1 CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 9 MAR 2022 14:24:11	



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	8.36	8.39	99.6%	0.1
11g	2437	1.38	1.42	97.2%	0.7
11n20	2437	1.29	1.33	97.0%	0.8



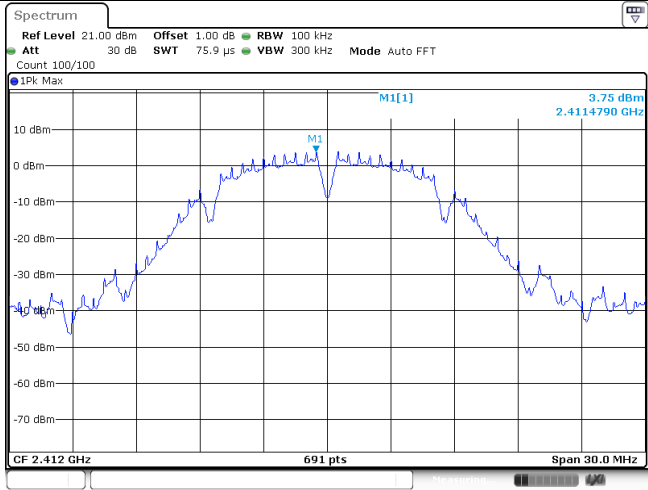
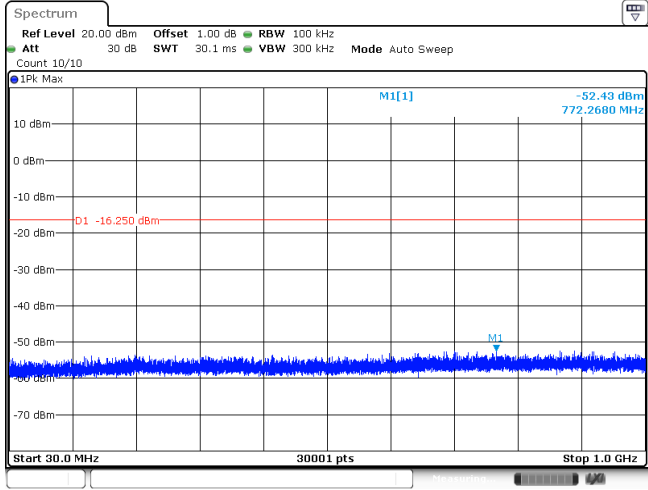
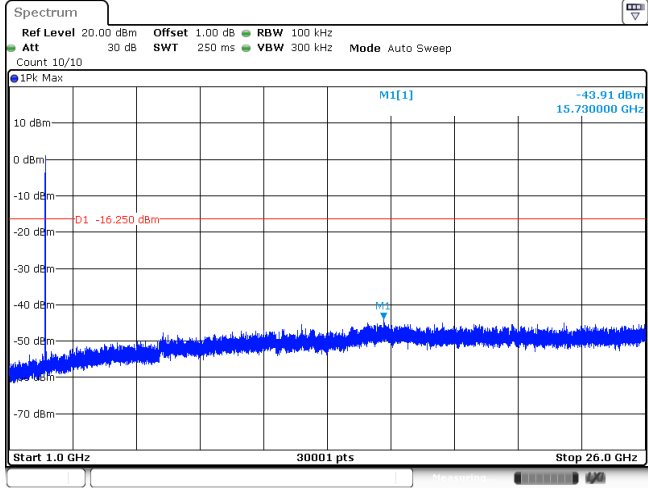


Appendix F: Band edge and Spurious Emissions (conducted)

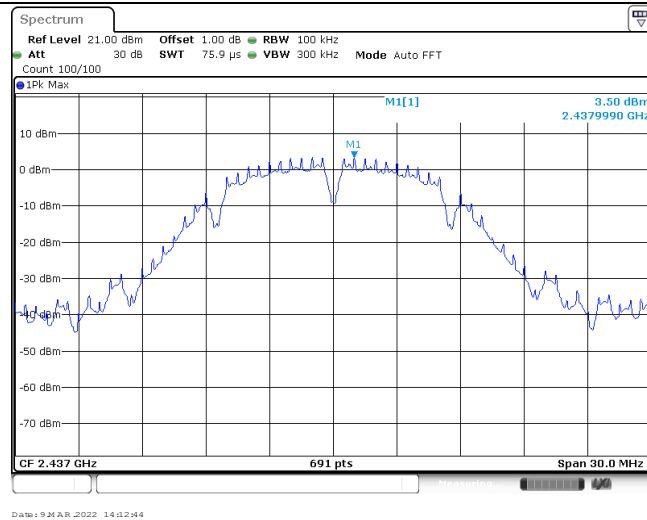
Test Item:	Bandedge	Type:	802.11 b																																										
CH01	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 3.48 dBm 2.411060 GHz -40.81 dBm 2.39 GHz -59.48 dBm 2.399113 GHz D1 -16.520 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz Marker <table><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>2.41106 GHz</td><td>3.48 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-40.81 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.63 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-59.48 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399113 GHz</td><td>-34.39 dBm</td><td></td><td></td></tr></tbody></table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41106 GHz	3.48 dBm			M2	1		2.4 GHz	-40.81 dBm			M3	1		2.39 GHz	-55.63 dBm			M4	1		2.31 GHz	-59.48 dBm			M5	1		2.399113 GHz	-34.39 dBm		
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CH11	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 3.61 dBm 2.460509 GHz -50.54 dBm 2.4835000 GHz D1 -16.390 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><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>2.460509 GHz</td><td>3.61 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-50.54 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.23 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483513 GHz</td><td>-50.54 dBm</td><td></td><td></td></tr></tbody></table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.460509 GHz	3.61 dBm			M2	1		2.4835 GHz	-50.54 dBm			M3	1		2.5 GHz	-59.23 dBm			M4	1		2.483513 GHz	-50.54 dBm									
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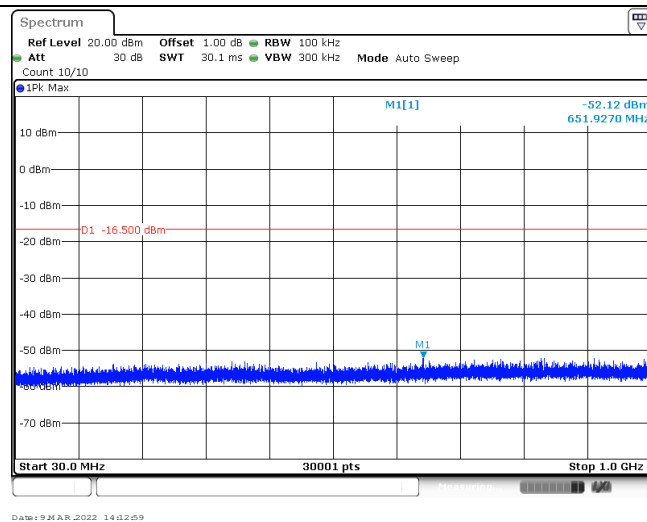
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M4	1		2.31 GHz	-59.72 dBm																																									
M5	1		2.399275 GHz	-34.27 dBm																																									
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 M4 -1.75 dBm 2.4607180 GHz -46.97 dBm 2.4835000 GHz -21.750 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.460718 GHz</td><td>-1.75 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-46.97 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-55.93 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483513 GHz</td><td>-46.97 dBm</td><td></td><td></td></tr></table> 9 MAR 2022 14:29:10			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.460718 GHz	-1.75 dBm			M2	1		2.4835 GHz	-46.97 dBm			M3	1		2.5 GHz	-55.93 dBm			M4	1		2.483513 GHz	-46.97 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.460718 GHz	-1.75 dBm																																									
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M3	1		2.5 GHz	-55.93 dBm																																									
M4	1		2.483513 GHz	-46.97 dBm																																									

Test Item:	Spurious Emissions	Type:	802.11 b
CH01 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 3.75 dBm 2.4114790 GHz CF 2.412 GHz 691 pts Span 30.0 MHz Date: 9 MAR 2022 14:09:52		
CH01 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.43 dBm 772.2680 MHz D1 -16.250 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 9 MAR 2022 14:10:07		
CH01 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -43.91 dBm 15.730000 GHz D1 -16.250 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 9 MAR 2022 14:10:22		

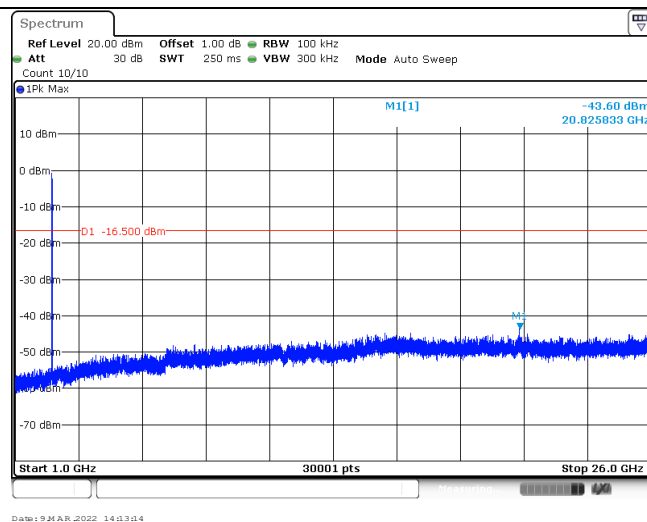
CH06
Reference level

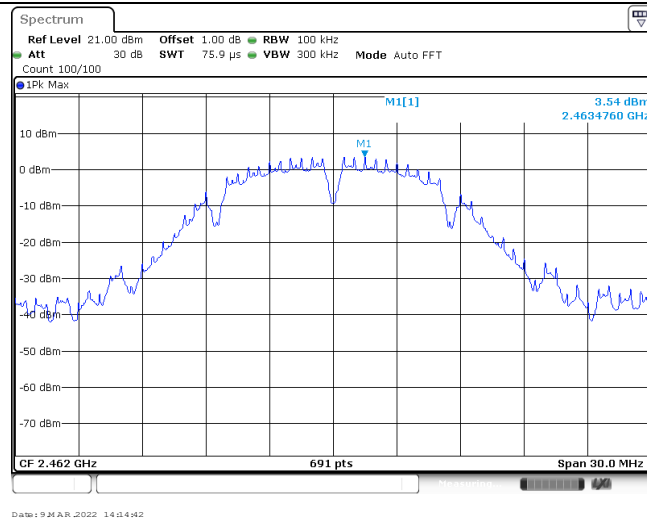
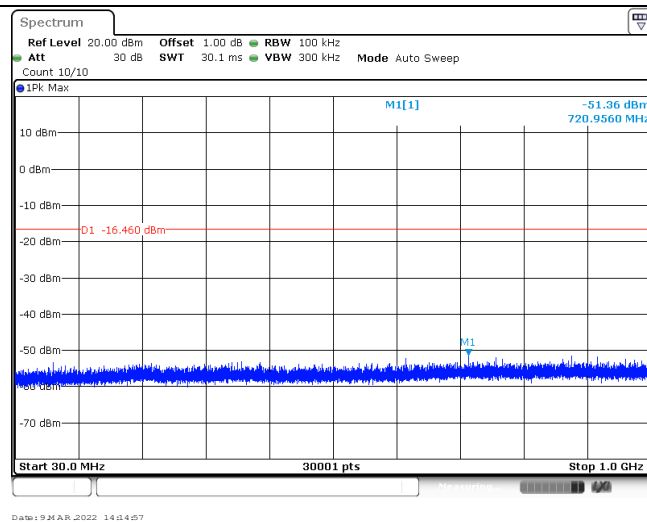
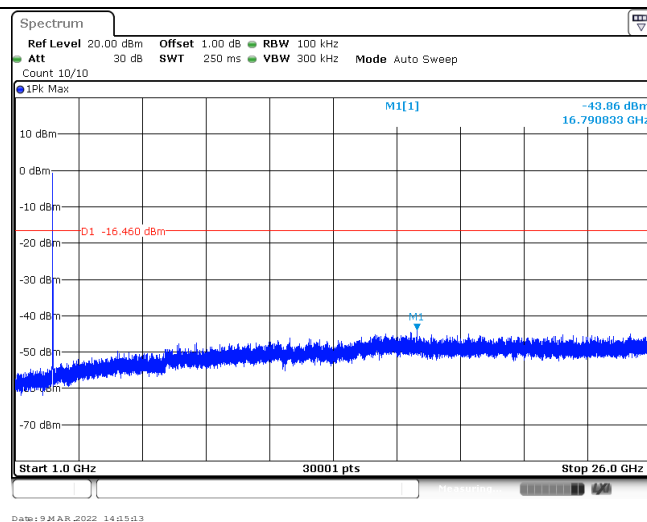


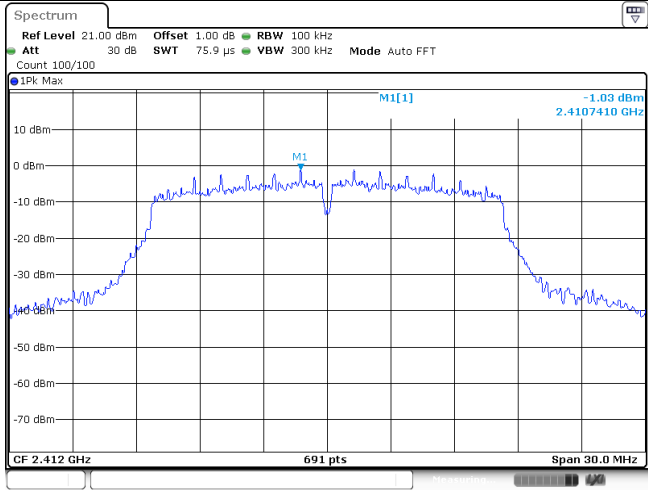
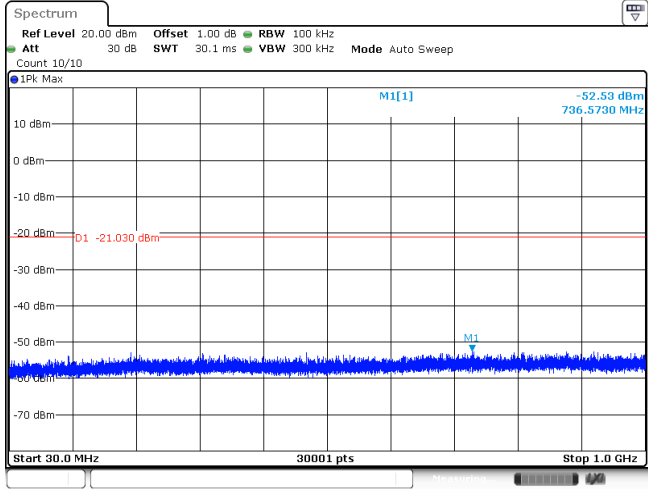
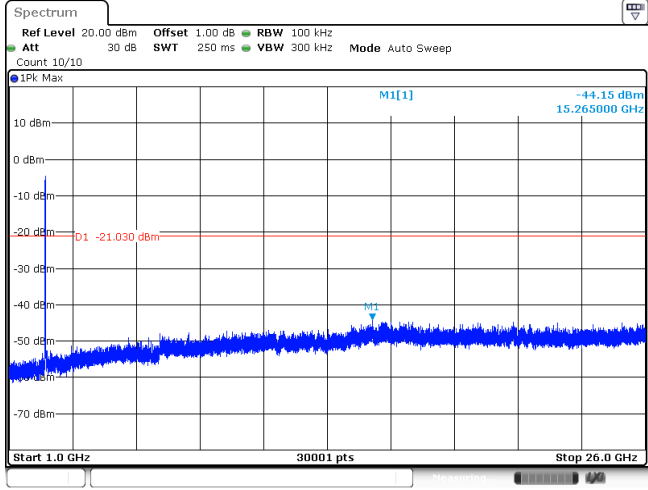
CH06
30MHz~1000MHz



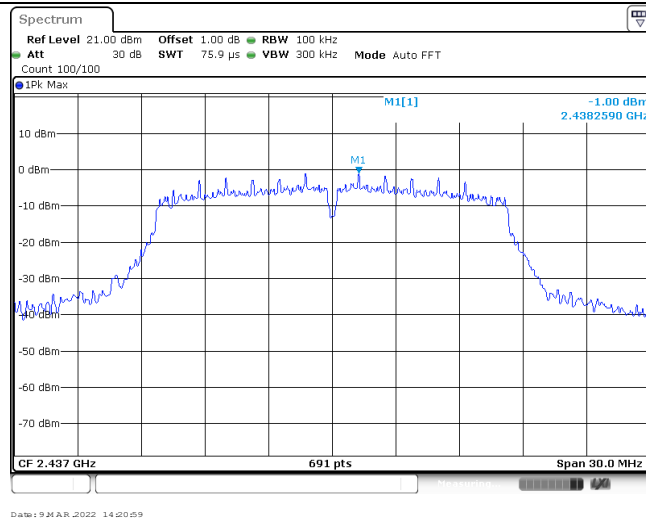
CH06
1GHz~26GHz



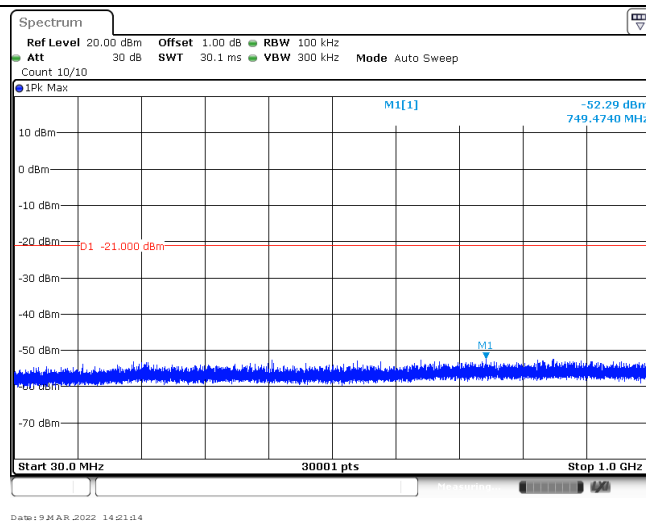
CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

Test Item:	Spurious Emissions	Type:	802.11 g
CH01 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -1.03 dBm 2.4107410 GHz CF 2.412 GHz 691 pts Span 30.0 MHz Date: 9 MAR 2022 14:17:50		
CH01 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.53 dBm 736.5730 MHz D1 -21.030 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 9 MAR 2022 14:18:05		
CH01 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -44.15 dBm 15.265000 GHz D1 -21.030 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 9 MAR 2022 14:18:20		

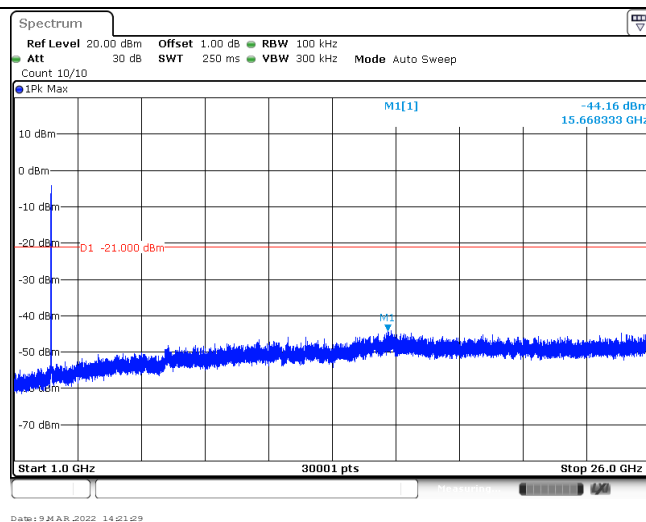
CH06
Reference level



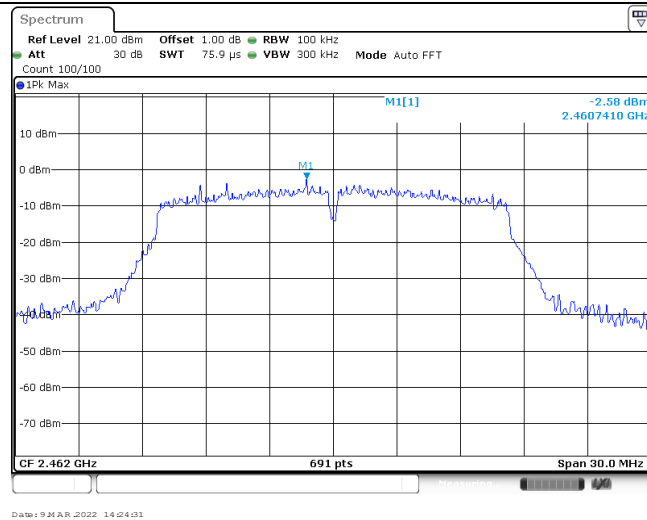
CH06
30MHz~1000MHz



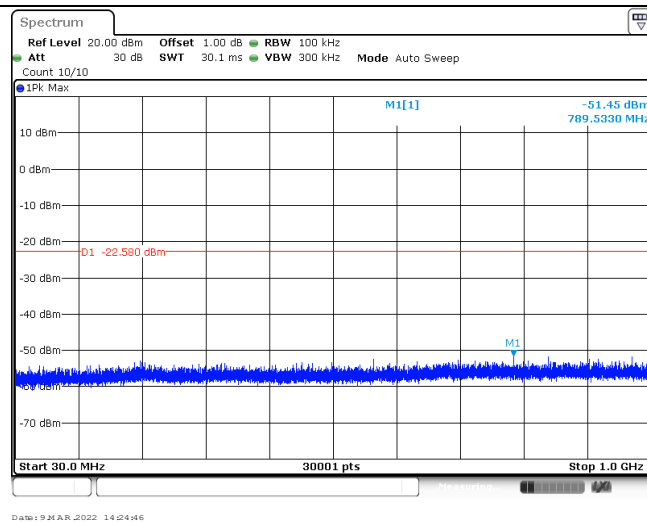
CH06
1GHz~26GHz



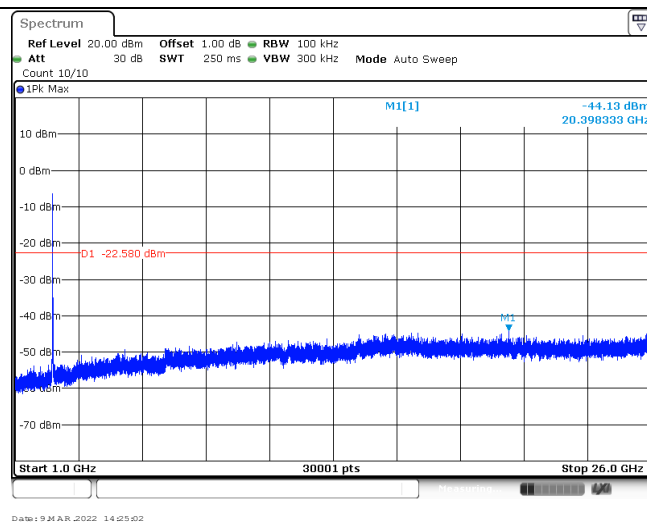
CH11
Reference level

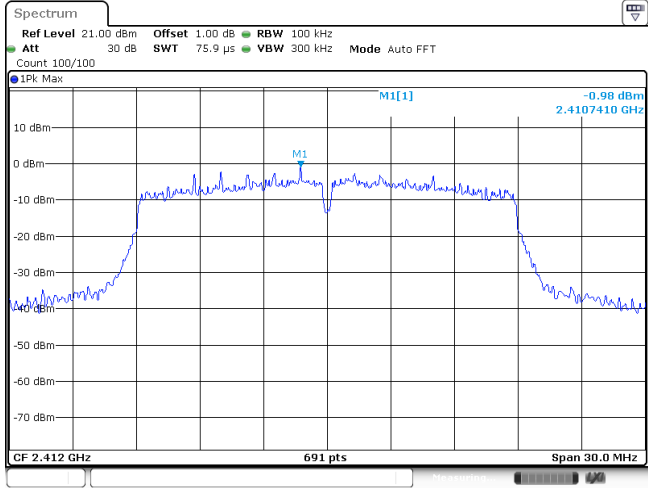
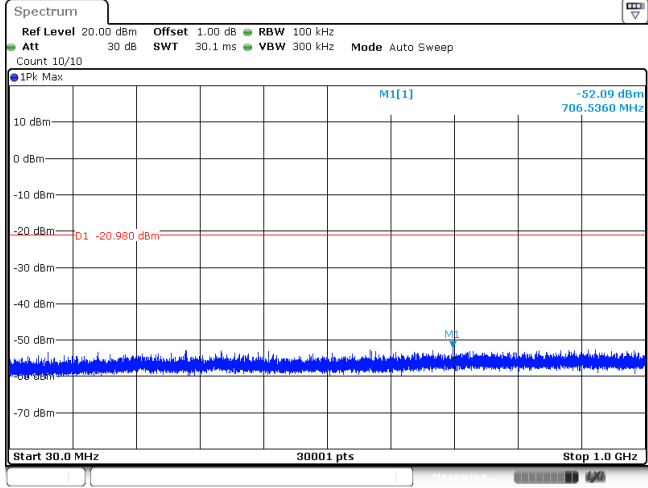
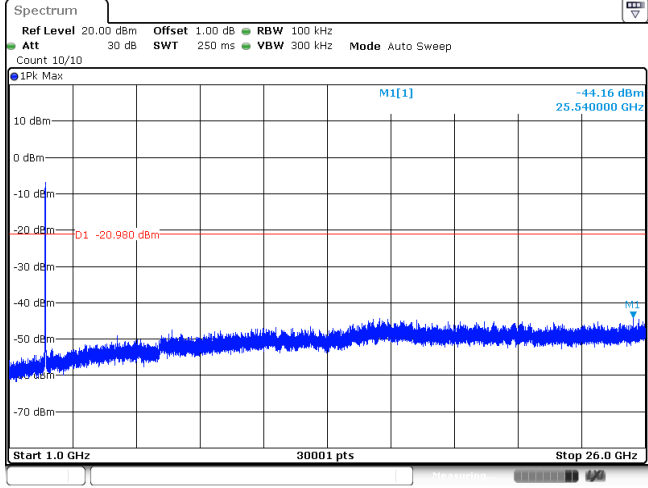


CH11
30MHz~1000MHz

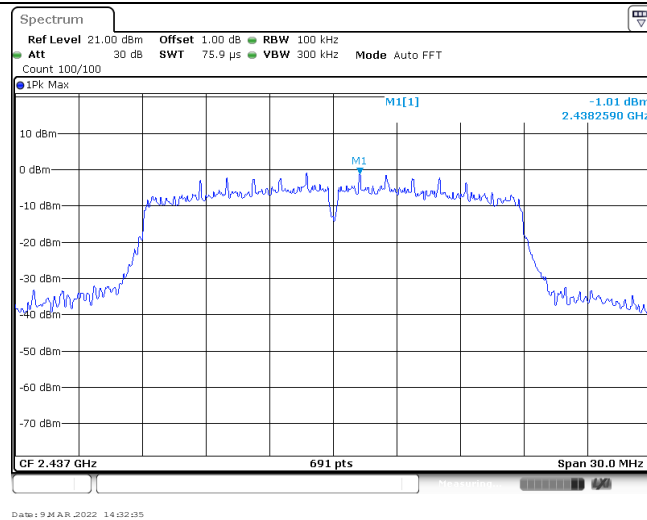


CH11
1GHz~26GHz

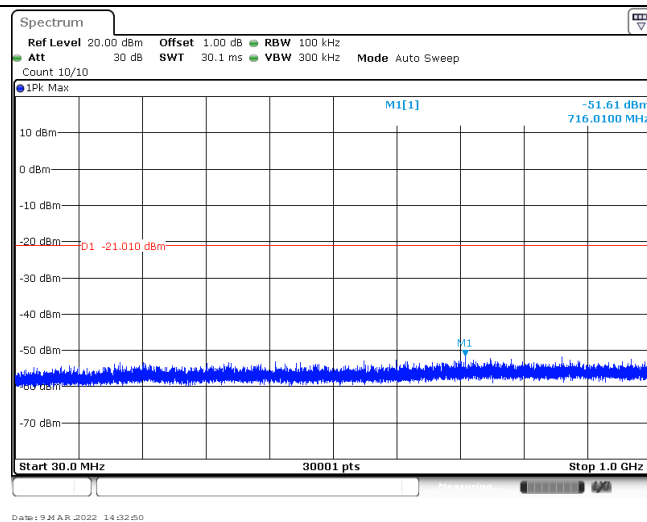


Test Item:	Spurious Emissions	Type:	802.11 n(HT20)
CH01 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -0.98 dBm 2.4107410 GHz CF 2.412 GHz 691 pts Span 30.0 MHz Date: 9 MAR 2022 14:30:57		
CH01 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.09 dBm 706.5360 MHz D1 -20.980 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 9 MAR 2022 14:31:12		
CH01 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -44.16 dBm 25.540000 GHz D1 -20.980 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 9 MAR 2022 14:31:28		

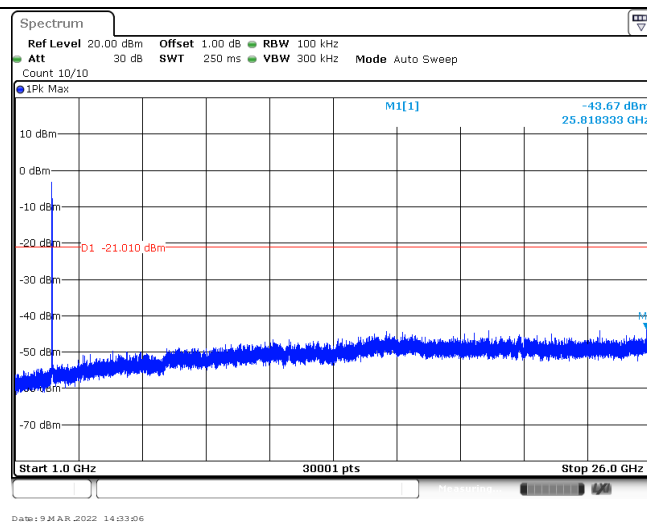
CH06
Reference level



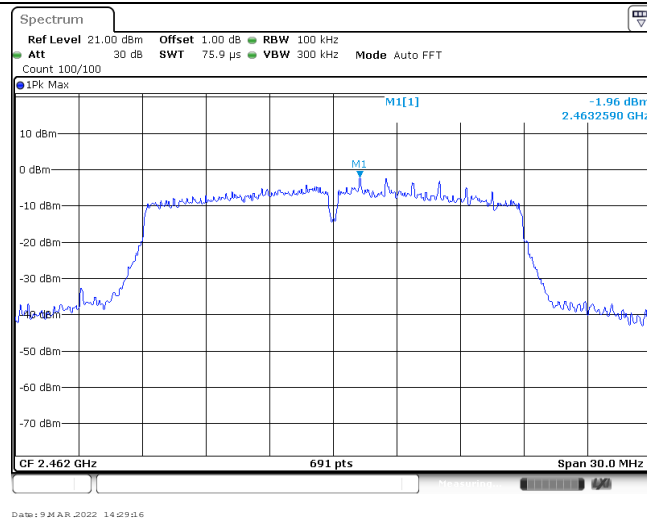
CH06
30MHz~1000MHz



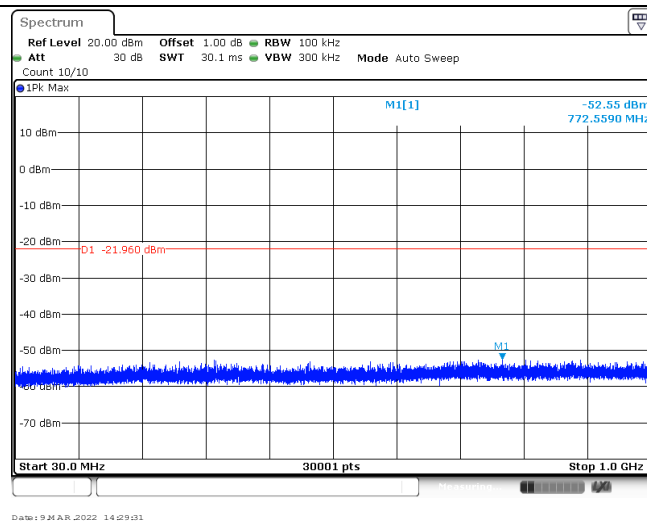
CH06
1GHz~26GHz



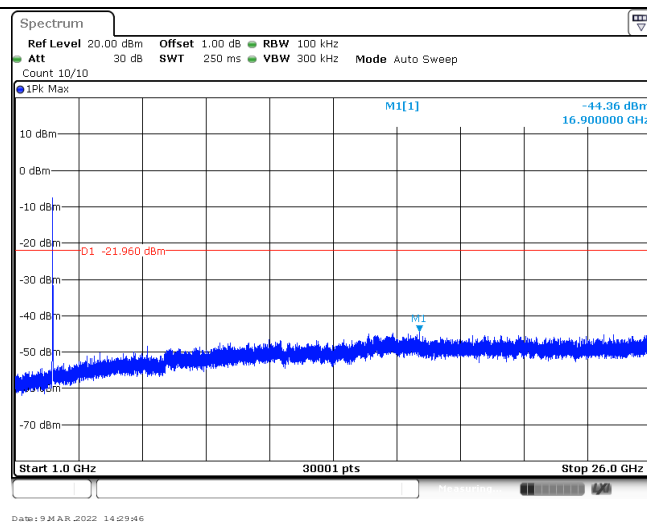
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



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