

APPENDIX REPORT

Project No.	SHT2209003601EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT22090036003	Model No.	C55 PLUS
Start test date	2022-09-14	Finish date	2022-09-14
Temperature	25.1℃	Humidity	30%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhu

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

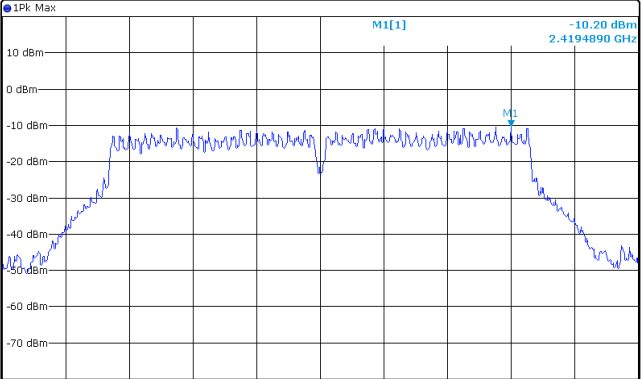
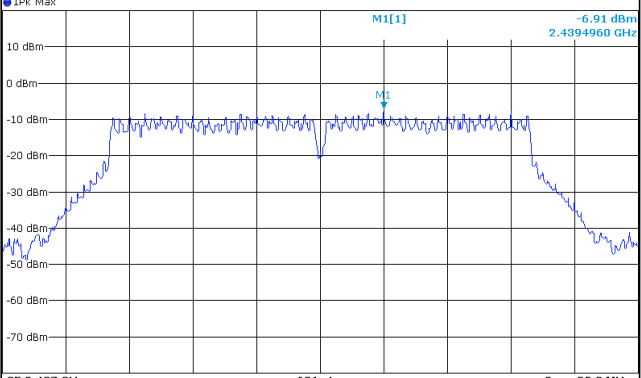
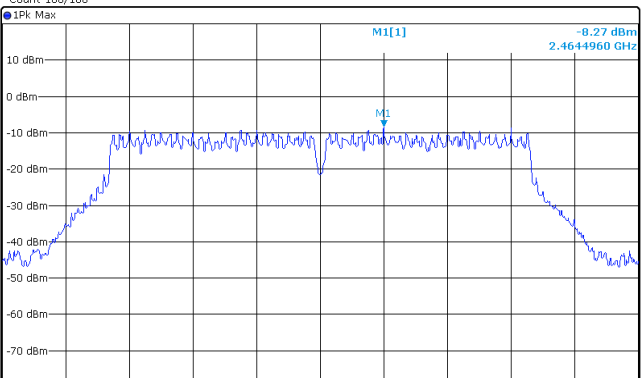
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	15.45	13.40	≤ 30.00	Pass
	06	16.04	14.01		
	11	15.19	13.17		
802.11g	01	15.24	13.18	≤ 30.00	Pass
	06	15.97	13.82		
	11	15.07	12.94		
802.11n (HT20)	01	14.75	12.41	≤ 30.00	Pass
	06	15.78	13.48		
	11	14.81	12.67		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	2.44	≤8.00	Pass
	06	2.89		
	11	2.04		
802.11g	01	-10.20	≤8.00	Pass
	06	-6.91		
	11	-8.27		
802.11n(HT20)	01	-9.82	≤8.00	Pass
	06	-8.98		
	11	-9.92		

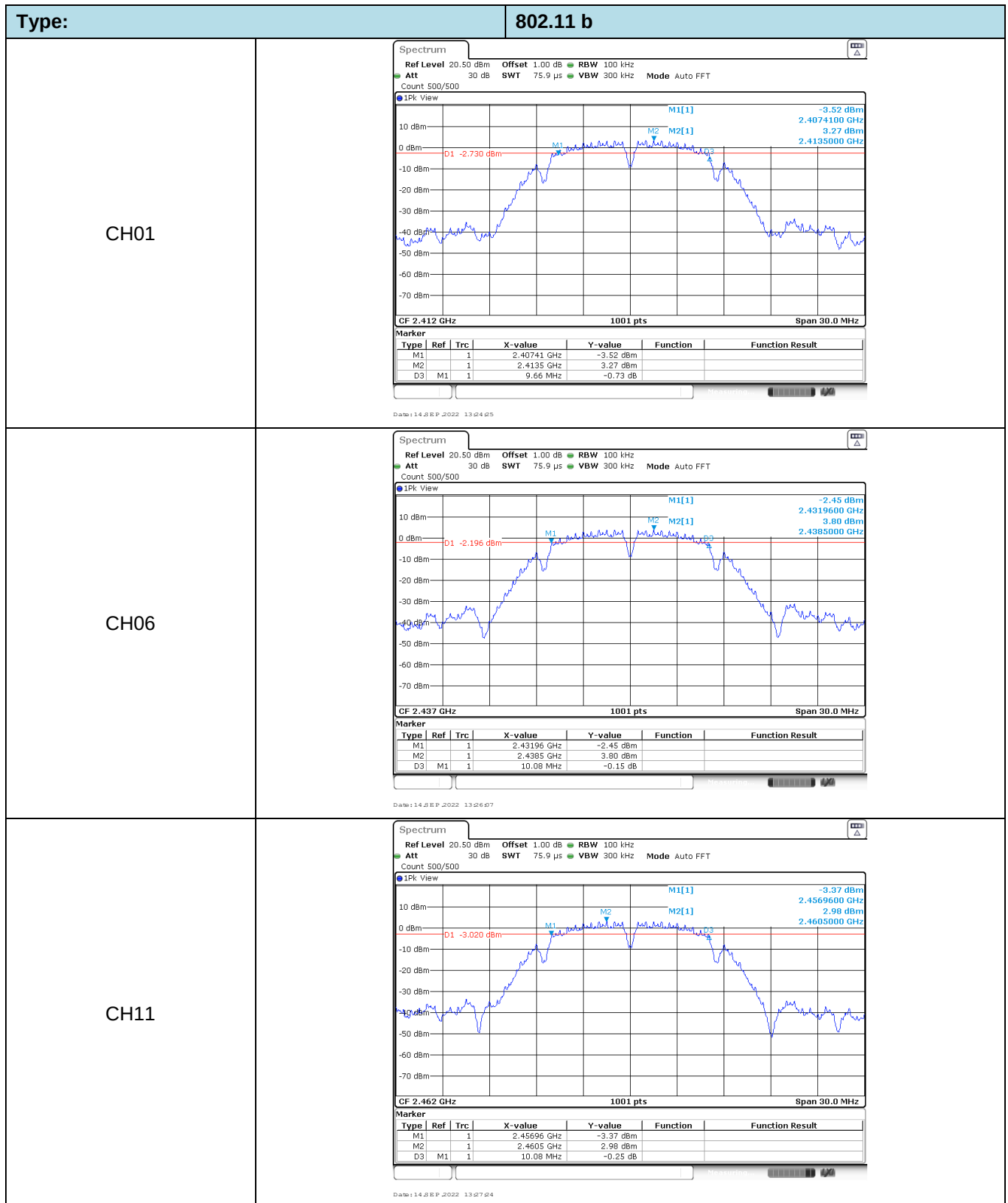
Type:		802.11 b
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] 2.44 dBm 2.4127410 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 16.0 MHz Date: 14 SEP 2022 13:24:38	
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 1Pk Max M1[1] 2.89 dBm 2.4377410 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 691 pts Span 16.0 MHz Date: 14 SEP 2022 13:26:19	
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 1Pk Max M1[1] 2.04 dBm 2.4627410 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 691 pts Span 16.0 MHz Date: 14 SEP 2022 13:27:37	

Type:		802.11 g
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -10.20 dBm 2.4194890 GHz M1  CF 2.412 GHz 691 pts Span 25.0 MHz Date: 14 SEP 2022 13:29:12	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -6.91 dBm 2.4394960 GHz M1  CF 2.437 GHz 691 pts Span 25.0 MHz Date: 14 SEP 2022 13:30:52	
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -9.27 dBm 2.4644960 GHz M1  CF 2.462 GHz 691 pts Span 25.0 MHz Date: 14 SEP 2022 13:32:03	

Type:		802.11n(HT20)
CH01	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -9.82 dBm 2.4194890 GHz M1 CF 2.412 GHz 691 pts Span 25.0 MHz Date: 14 SEP 2022 13:33:41	
CH06	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -8.98 dBm 2.4444890 GHz M1 CF 2.437 GHz 691 pts Span 25.0 MHz Date: 14 SEP 2022 13:35:28	
CH11	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -9.92 dBm 2.4597930 GHz M1 CF 2.462 GHz 691 pts Span 25.0 MHz Date: 14 SEP 2022 13:36:41	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.66	≥0.5	Pass
	06	10.08		
	11	10.08		
802.11g	01	16.41	≥0.5	Pass
	06	16.44		
	11	16.38		
802.11n(HT20)	01	17.67	≥0.5	Pass
	06	17.64		
	11	17.61		

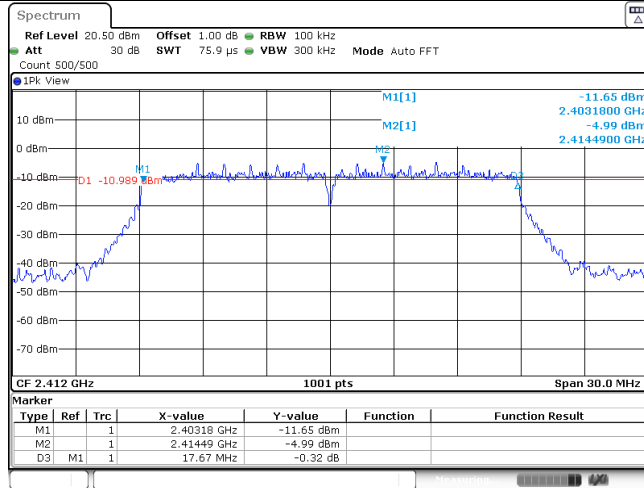


Type:	802.11 g																												
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M3 -12.22 dBm 2.4038100 GHz -5.44 dBm 2.4170100 GHz 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>2.40381 GHz</td><td>-12.22 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.41701 GHz</td><td>-5.44 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.41 MHz</td><td>-0.48 dB</td><td></td><td></td></tr></table> Date: 14 SEP 2022 13:28:59	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40381 GHz	-12.22 dBm			M2		1	2.41701 GHz	-5.44 dBm			D3	M1	1	16.41 MHz	-0.48 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40381 GHz	-12.22 dBm																									
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CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M3 -9.72 dBm 2.4287800 GHz -3.66 dBm 2.4307300 GHz CF 2.437 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>2.42878 GHz</td><td>-9.72 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.43073 GHz</td><td>-3.66 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.44 MHz</td><td>-0.35 dB</td><td></td><td></td></tr></table> Date: 14 SEP 2022 13:30:39	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42878 GHz	-9.72 dBm			M2		1	2.43073 GHz	-3.66 dBm			D3	M1	1	16.44 MHz	-0.35 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.42878 GHz	-9.72 dBm																									
M2		1	2.43073 GHz	-3.66 dBm																									
D3	M1	1	16.44 MHz	-0.35 dB																									
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M3 -9.81 dBm 2.4538100 GHz -3.48 dBm 2.4644900 GHz CF 2.462 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>2.45381 GHz</td><td>-9.81 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.46449 GHz</td><td>-3.48 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.38 MHz</td><td>0.22 dB</td><td></td><td></td></tr></table> Date: 14 SEP 2022 13:31:50	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45381 GHz	-9.81 dBm			M2		1	2.46449 GHz	-3.48 dBm			D3	M1	1	16.38 MHz	0.22 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45381 GHz	-9.81 dBm																									
M2		1	2.46449 GHz	-3.48 dBm																									
D3	M1	1	16.38 MHz	0.22 dB																									

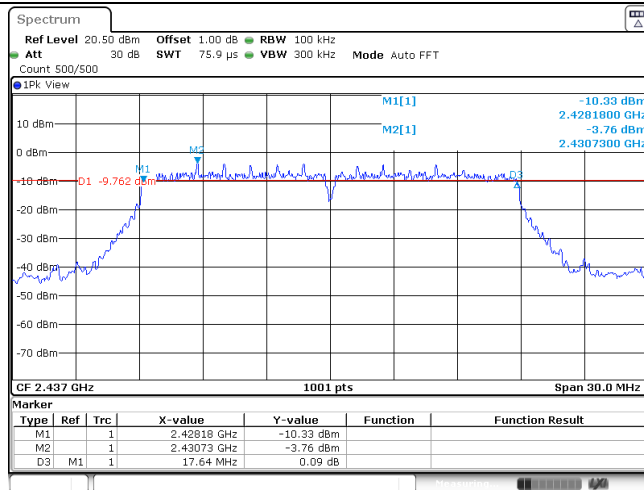
Type:

802.11n(HT20)

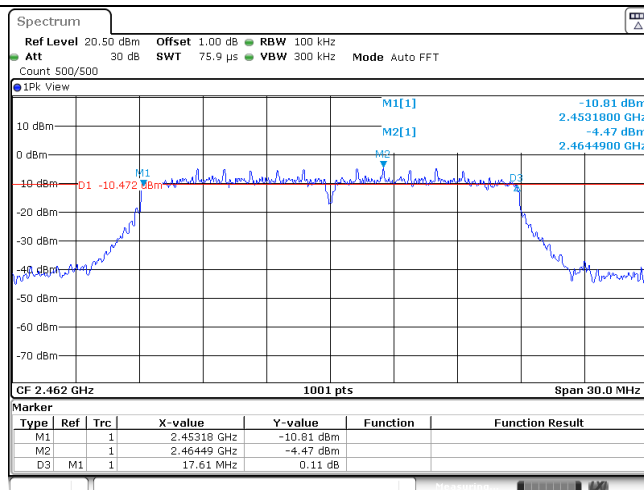
CH01



CH06



CH11

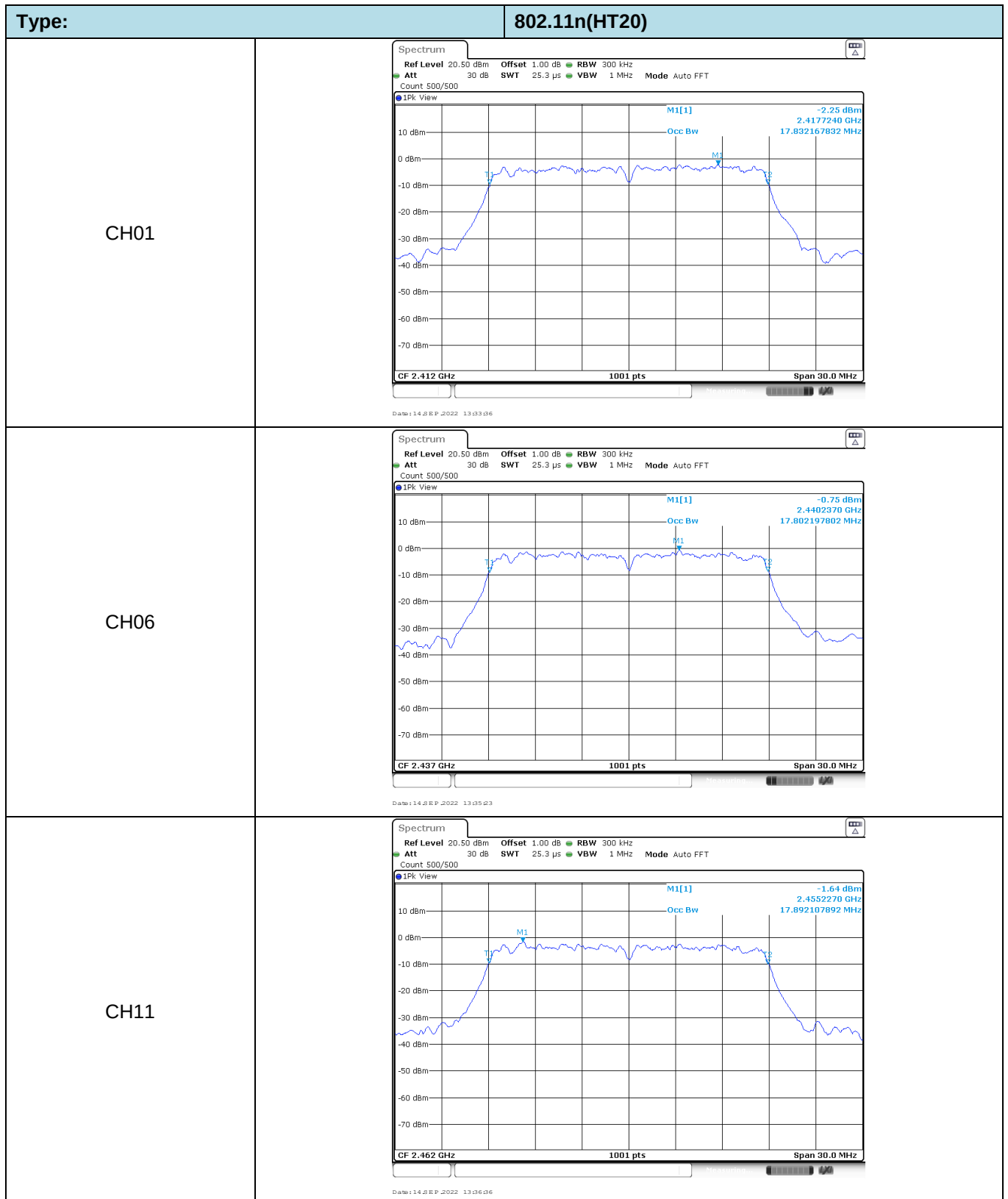


Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.20	-	Pass
	06	12.32		
	11	12.20		
802.11g	01	17.17	-	Pass
	06	17.11		
	11	17.08		
802.11n(HT20)	01	17.83	-	Pass
	06	17.80		
	11	17.89		

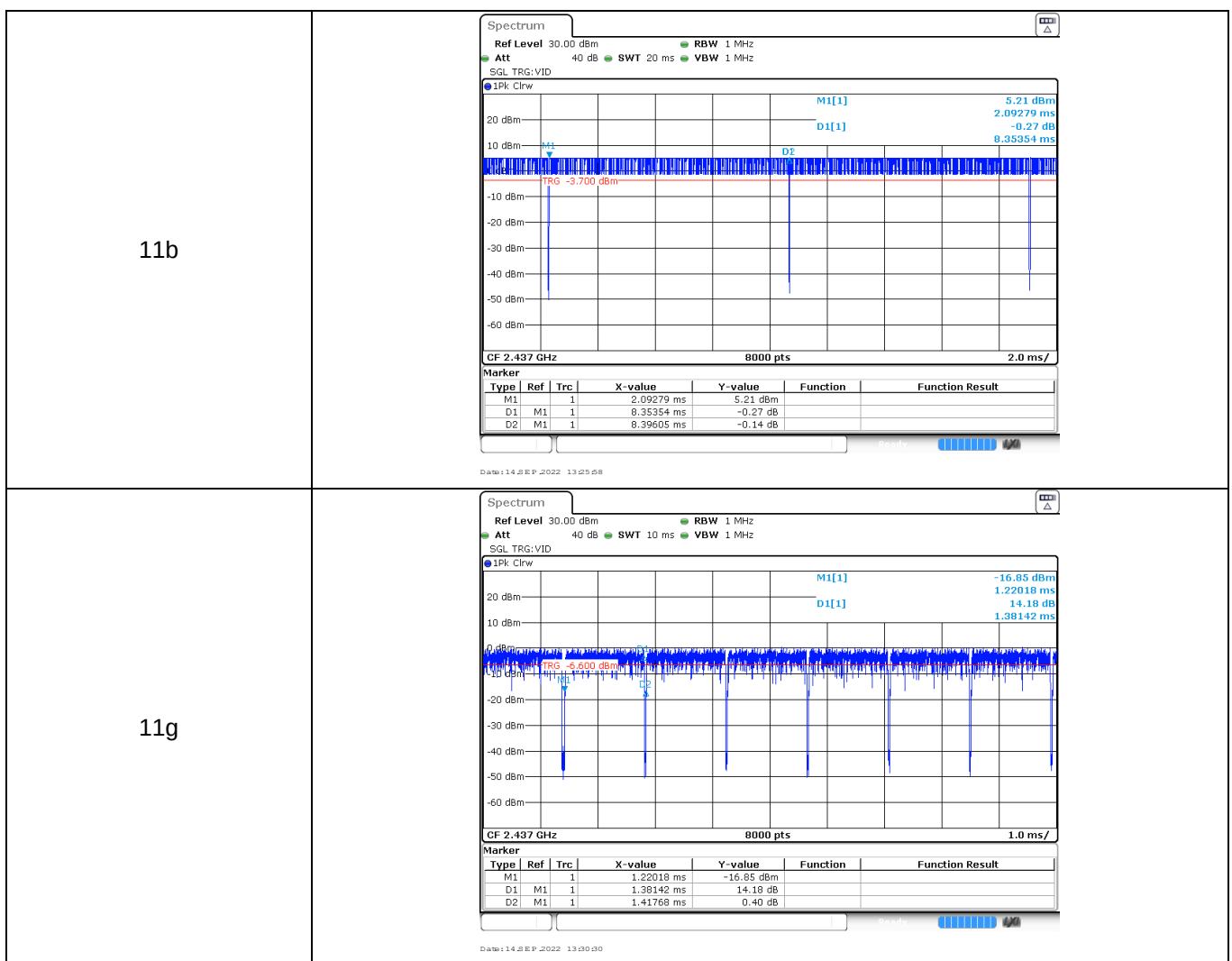
Type:		802.11 b
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View 4.81 dBm 2.4134990 GHz 12.197802198 MHz M1[1] Occ Bw M1 T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 14 SEP 2022 13:24:33	
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 5.25 dBm 2.4384990 GHz 12.317682318 MHz M1[1] Occ Bw M1 T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 14 SEP 2022 13:26:14	
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 4.46 dBm 2.4634990 GHz 12.197802198 MHz M1[1] Occ Bw M1 T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 14 SEP 2022 13:27:32	

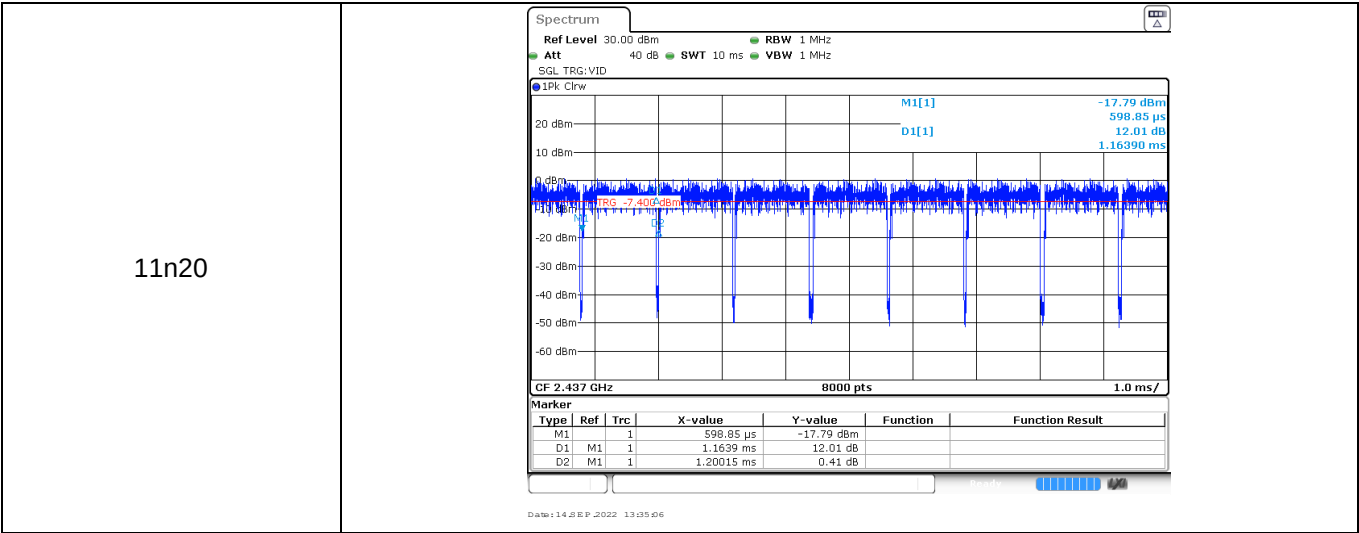
Type:	802.11 g
CH01	Spectrum plot for CH01. The plot shows a signal centered at 2.412 GHz. The peak level is -3.23 dBm. The signal is identified as M1[1]. The plot also shows the Offset (1.00 dB), RBW (300 kHz), and Mode (Auto FFT). The signal is labeled as Occ Bw. The plot also shows the CF (2.412 GHz), Span (30.0 MHz), and Count (500/500).
CH06	Spectrum plot for CH06. The plot shows a signal centered at 2.4353520 GHz. The peak level is -0.20 dBm. The signal is identified as M1[1]. The plot also shows the Offset (1.00 dB), RBW (300 kHz), and Mode (Auto FFT). The signal is labeled as Occ Bw. The plot also shows the CF (2.437 GHz), Span (30.0 MHz), and Count (500/500).
CH11	Spectrum plot for CH11. The plot shows a signal centered at 2.4586430 GHz. The peak level is -1.37 dBm. The signal is identified as M1[1]. The plot also shows the Offset (1.00 dB), RBW (300 kHz), and Mode (Auto FFT). The signal is labeled as Occ Bw. The plot also shows the CF (2.462 GHz), Span (30.0 MHz), and Count (500/500).



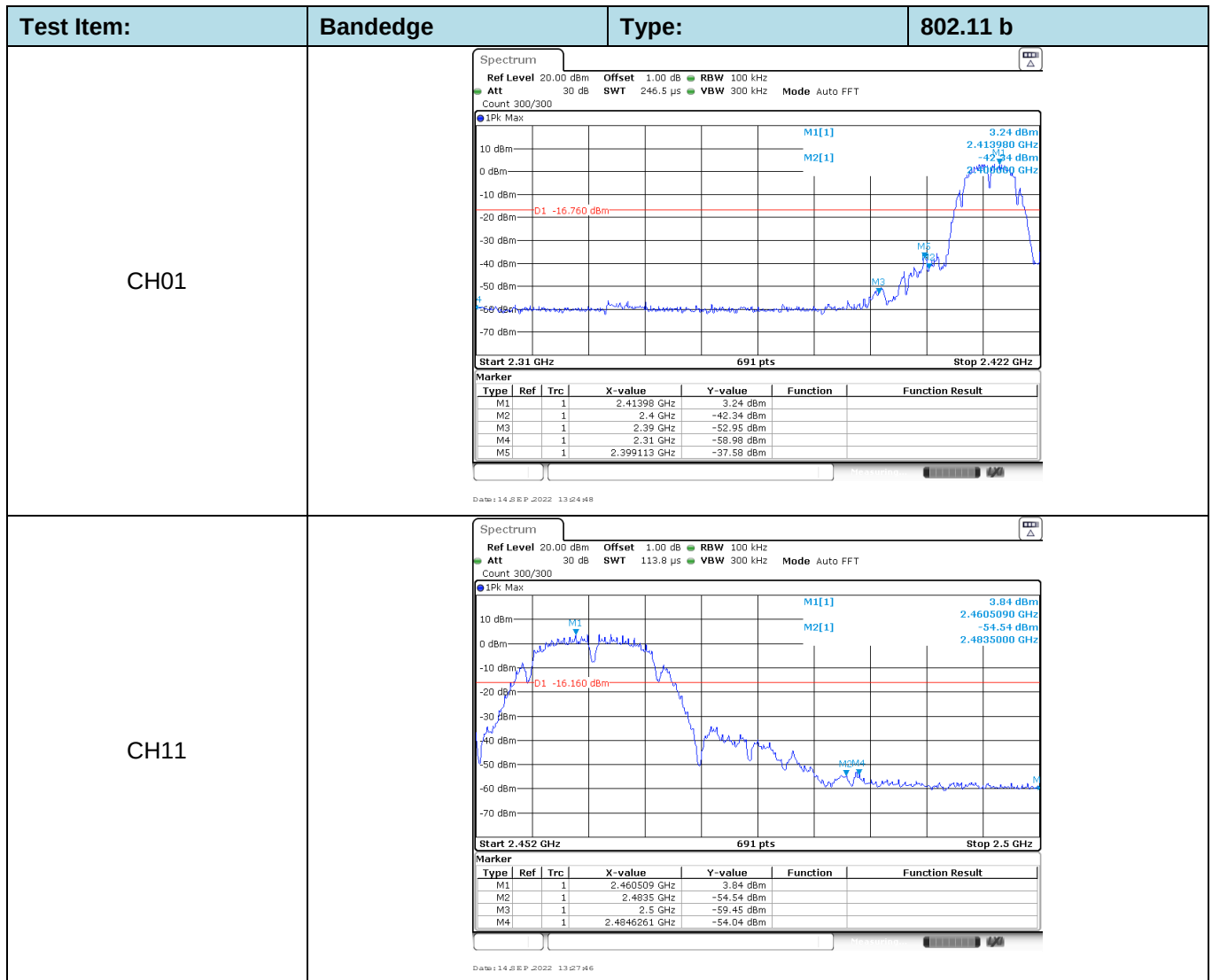
Appendix E: Duty Cycle

Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.35	8.40	99.4%	0.1
11g	2437	1.38	1.42	97.2%	0.7
11n20	2437	1.16	1.20	96.7%	0.9





Appendix F: Band edge and Spurious Emissions (conducted)

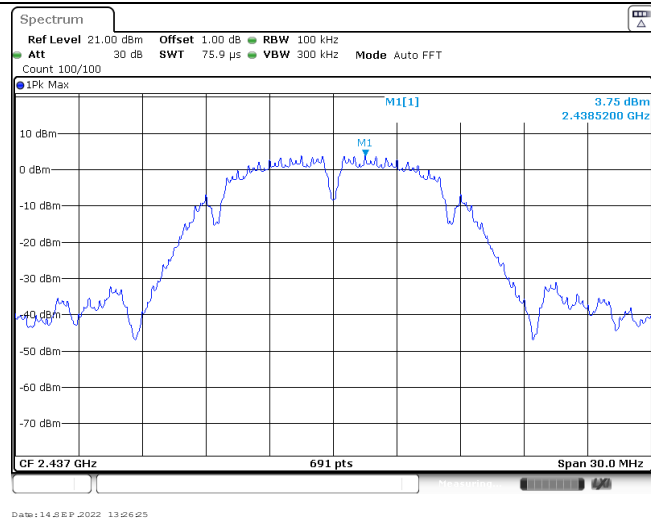


Test Item:	Bandedge	Type:	802.11 g																																										
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 -6.09 dBm 2.405710 GHz -39.34 dBm 2.400000 GHz -59.52 dBm -38.18 dBm D1 -26.090 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz <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>2.40571 GHz</td><td>-6.09 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-39.34 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-48.36 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-59.52 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398951 GHz</td><td>-38.18 dBm</td><td></td><td></td></tr></table> Date: 14 SEP 2022 13:29:21			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40571 GHz	-6.09 dBm			M2	1		2.4 GHz	-39.34 dBm			M3	1		2.39 GHz	-48.36 dBm			M4	1		2.31 GHz	-59.52 dBm			M5	1		2.398951 GHz	-38.18 dBm		
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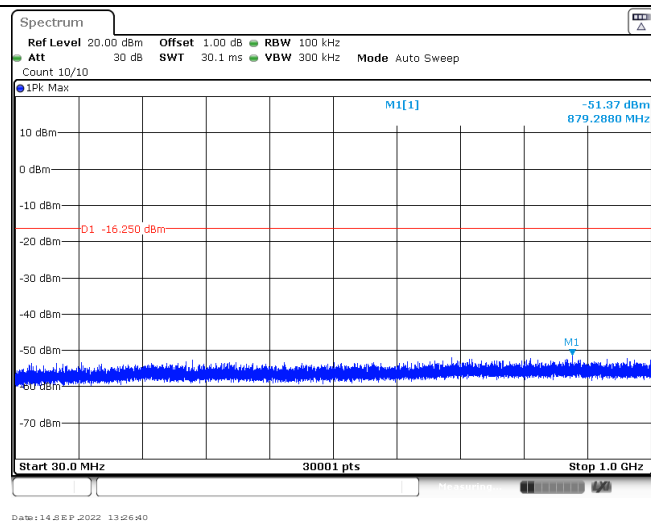
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
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M1	1		2.455716 GHz	-4.71 dBm																																									
M2	1		2.4835 GHz	-49.47 dBm																																									
M3	1		2.5 GHz	-58.87 dBm																																									
M4	1		2.4838609 GHz	-47.71 dBm																																									

Test Item:	Spurious Emissions	Type:	802.11 b
CH01 Reference level	Spectrum Ref Level 21.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk Max 9.29 dBm 2.4135200 GHz M1[1] M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 30.0 MHz Date: 14 SEP 2022 13:24:55		
CH01 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 1.00 dB SWT 30.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max -51.04 dBm 671.3590 MHz M1[1] M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 14 SEP 2022 13:25:10 D1 -16.710 dBm		
CH01 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 1.00 dB SWT 250 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max -43.80 dBm 15.953333 GHz M1[1] M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 14 SEP 2022 13:25:25 D1 -16.710 dBm		

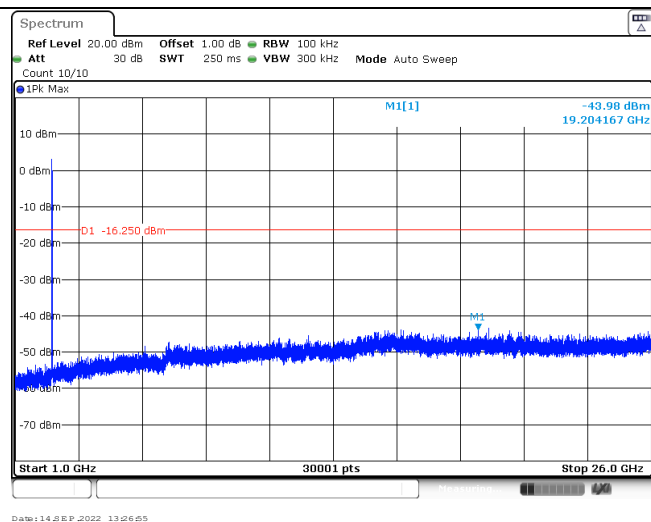
CH06
Reference level

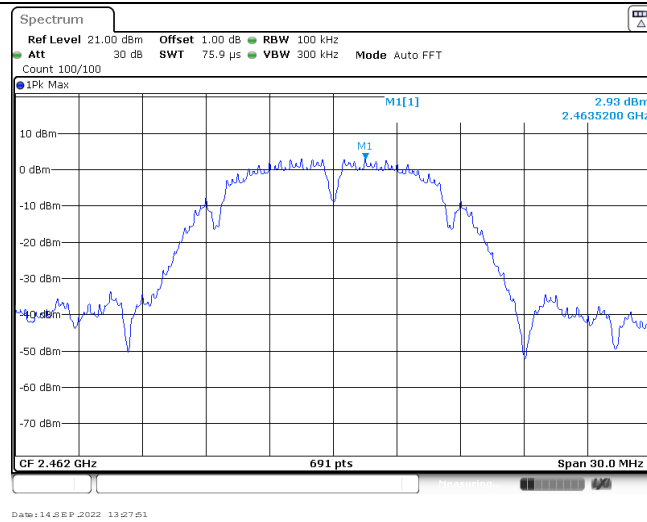
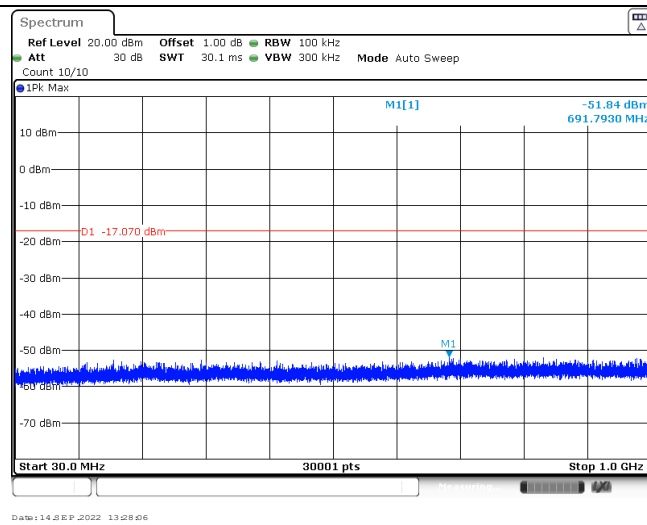
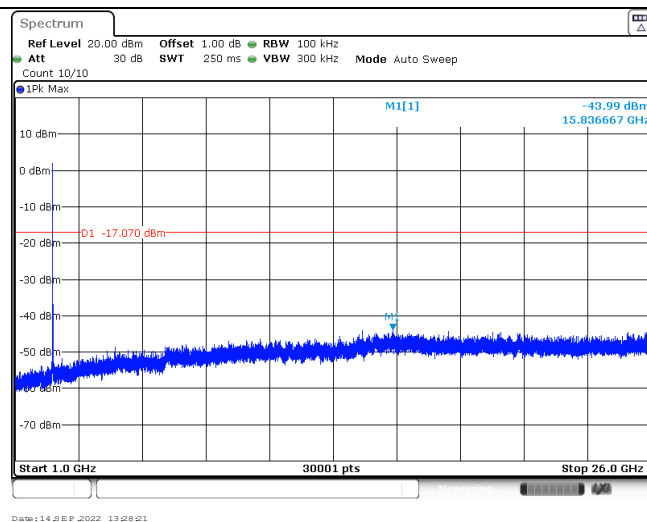


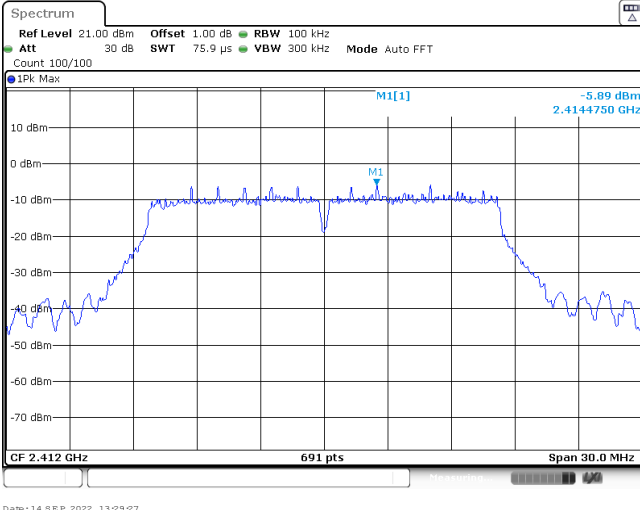
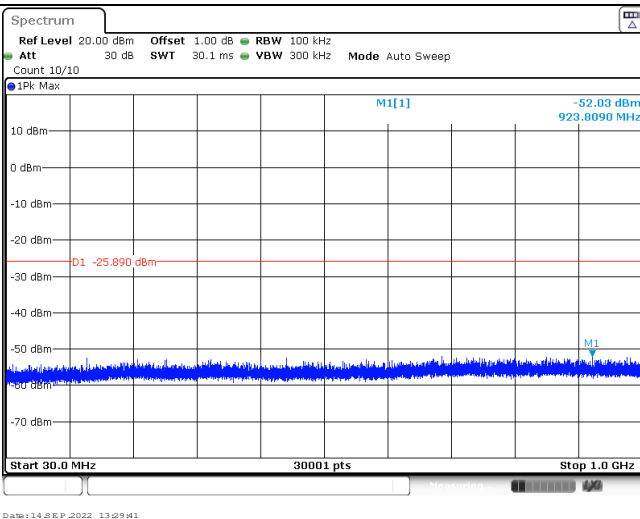
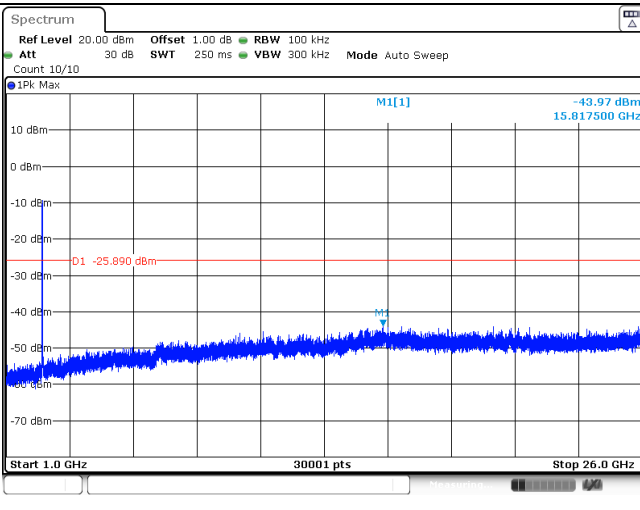
CH06
30MHz~1000MHz



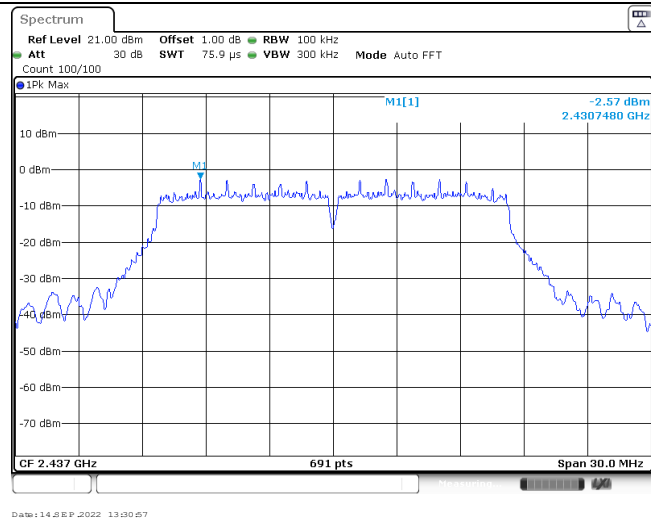
CH06
1GHz~26GHz



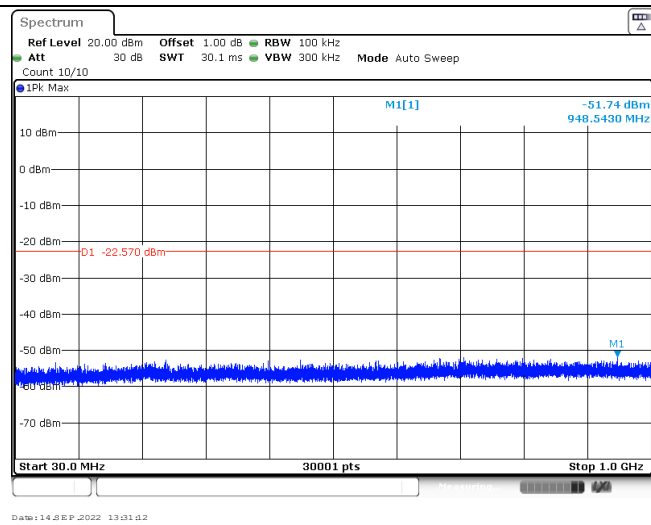
CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

Test Item:	Spurious Emissions	Type:	802.11 g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

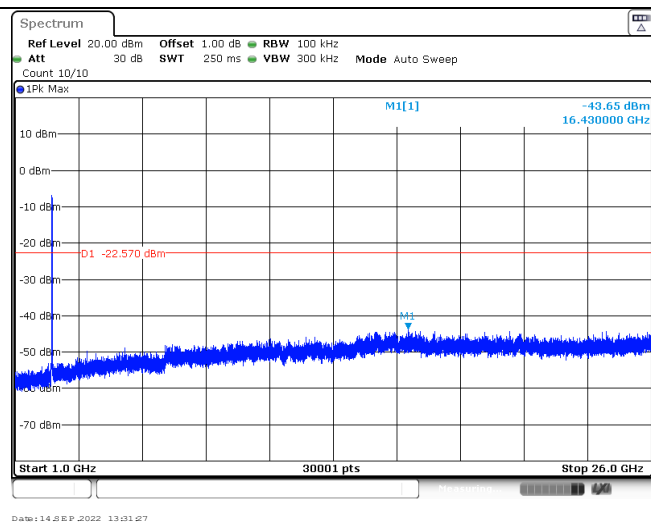
CH06
Reference level



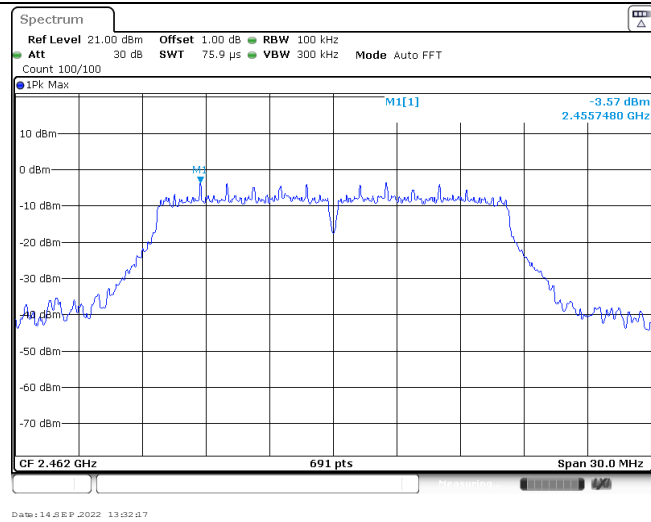
CH06
30MHz~1000MHz



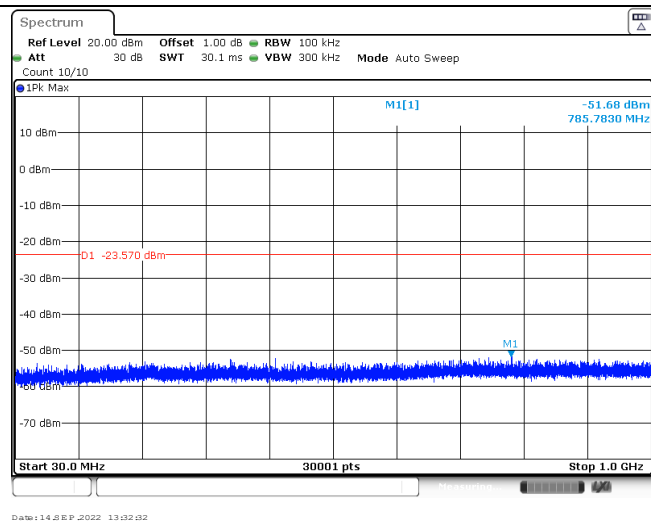
CH06
1GHz~26GHz



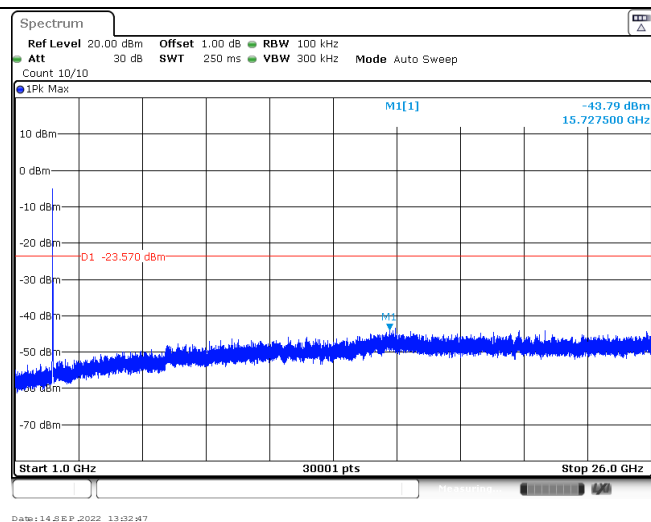
CH11
Reference level

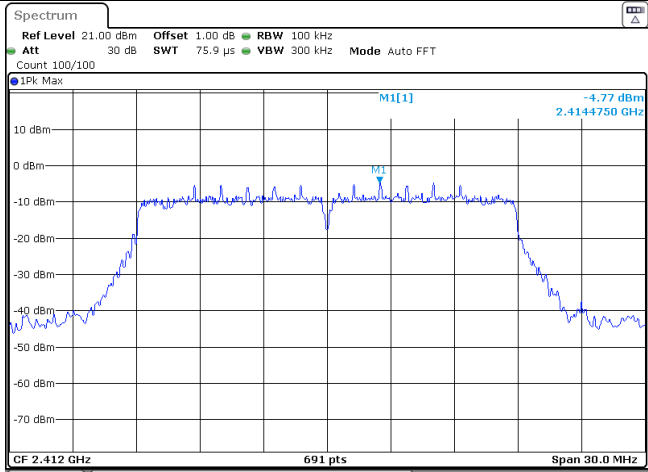
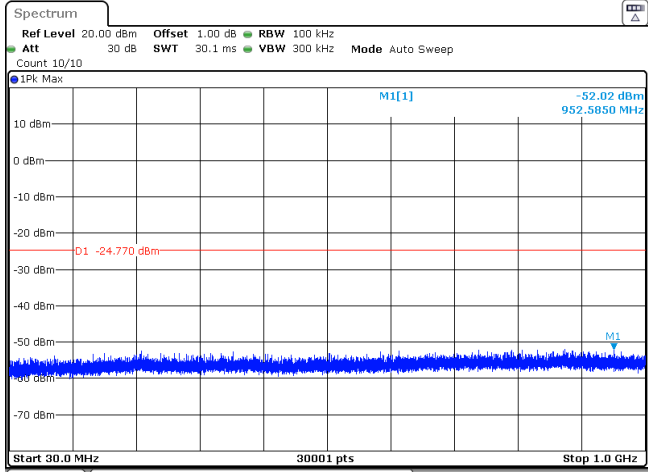
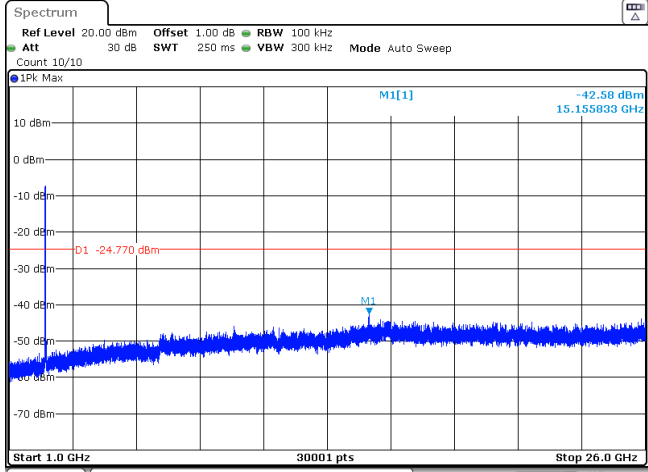


CH11
30MHz~1000MHz

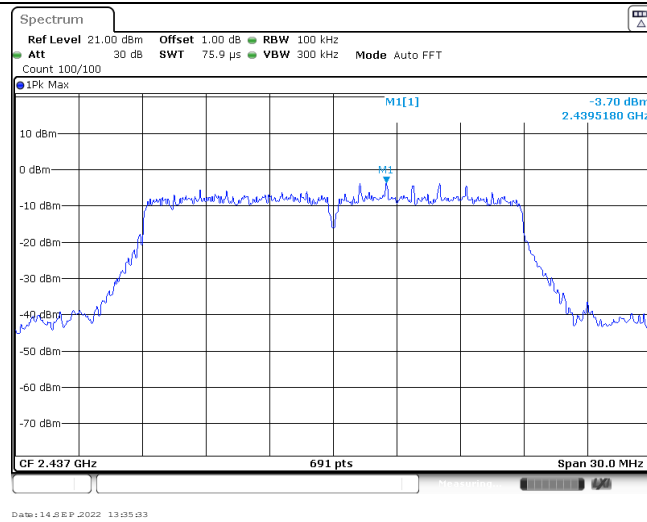


CH11
1GHz~26GHz

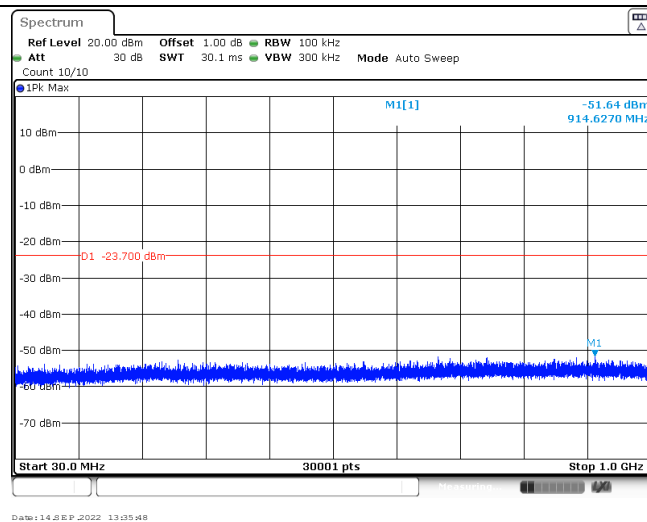


Test Item:	Spurious Emissions	Type:	802.11 n(HT20)
CH01 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -4.77 dBm 2.4144750 GHz CF 2.412 GHz 691 pts Span 30.0 MHz Date: 14 SEP 2022 13:33:56		
CH01 30MHz~1000MHz	 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] -52.02 dBm 952.5850 MHz D1 -24.770 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 14 SEP 2022 13:34:11		
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] -42.58 dBm 15.155833 GHz D1 -24.770 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 14 SEP 2022 13:34:26		

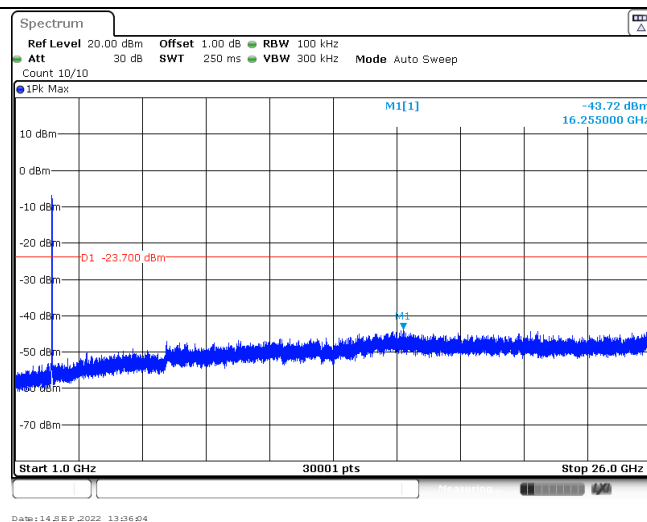
CH06
Reference level



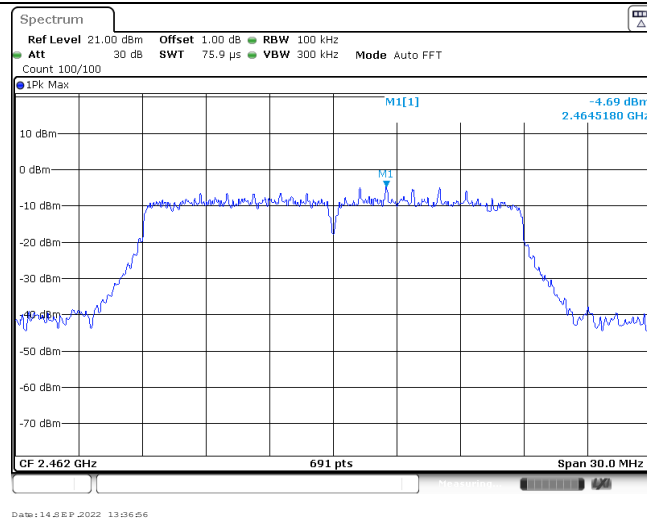
CH06
30MHz~1000MHz



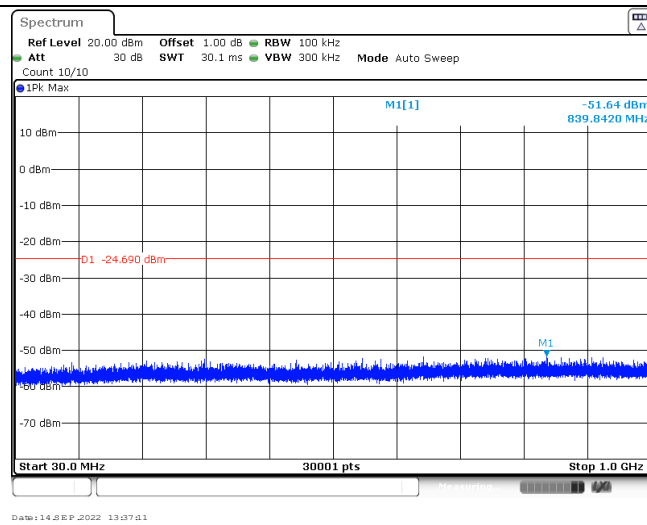
CH06
1GHz~26GHz



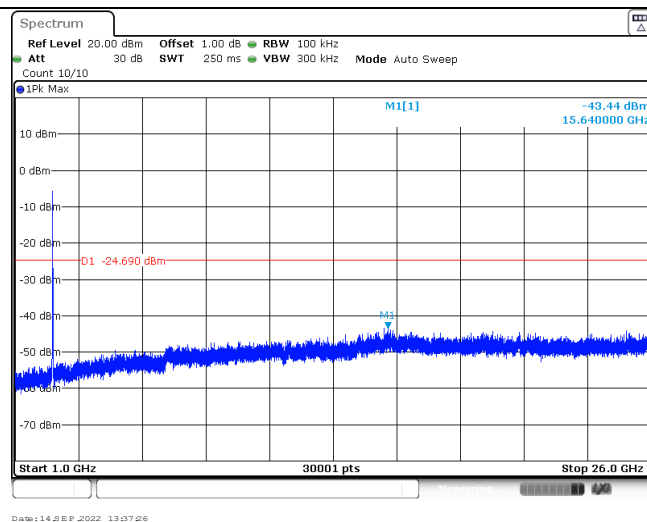
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



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