

APPENDIX REPORT

Project No.	SHT2306097101EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT23060971001_02	Model No.	Fenix9 3G
Start test date	2023-07-05	Finish date	2023-07-05
Temperature	24.1℃	Humidity	51%
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

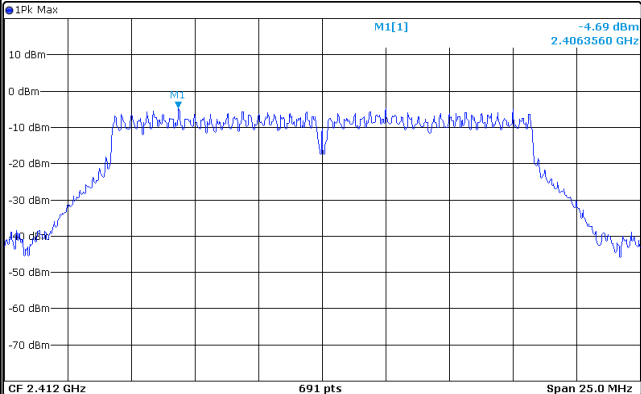
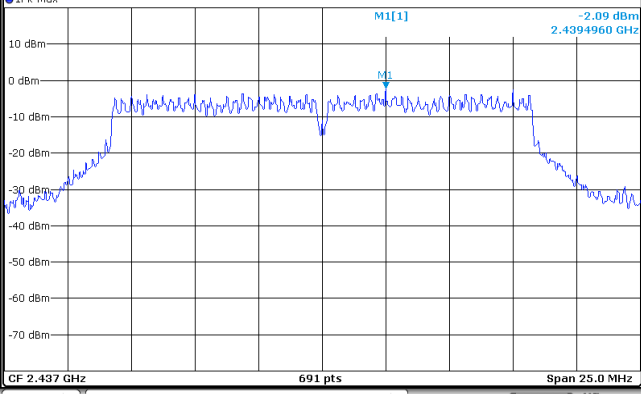
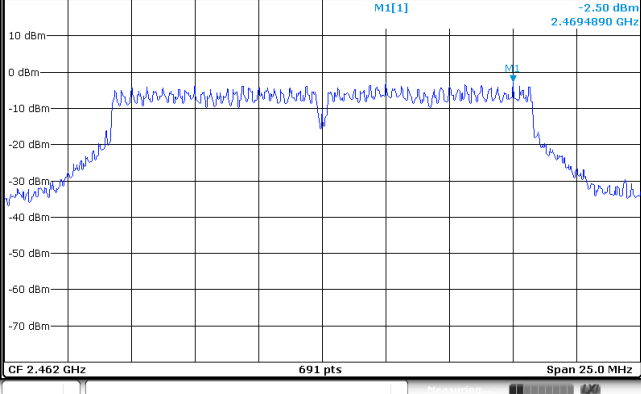
Appendix A: Conducted Peak Output Power

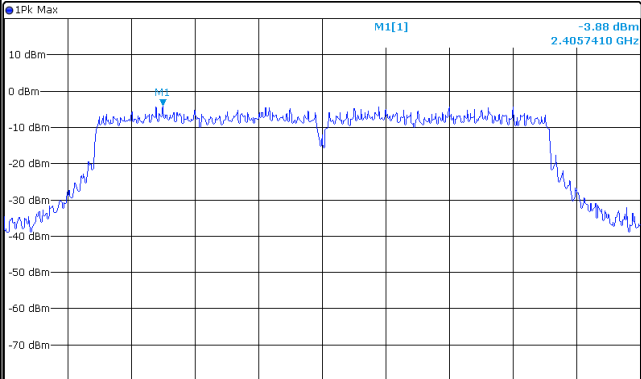
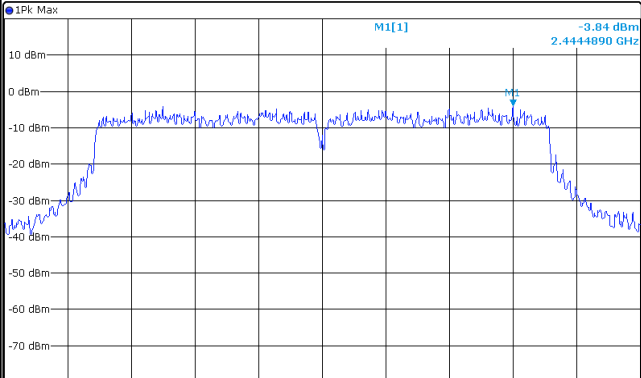
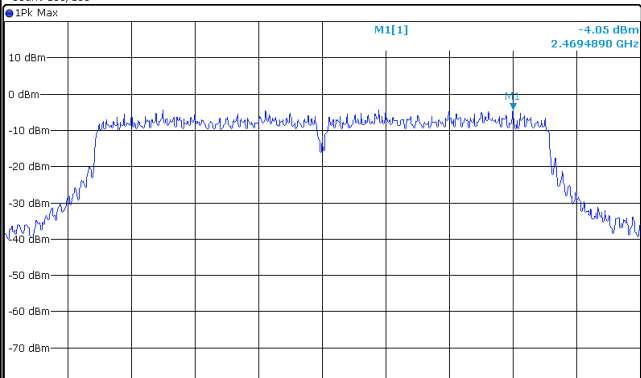
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	17.08	14.86	≤ 30.00	Pass
	06	16.91	14.67		
	11	16.61	14.42		
802.11g	01	17.64	14.76	≤ 30.00	Pass
	06	17.63	14.76		
	11	17.62	14.60		
802.11n (HT20)	01	17.25	14.92	≤ 30.00	Pass
	06	17.21	14.84		
	11	17.10	14.44		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	2.93	≤8.00	Pass
	06	2.80		
	11	2.47		
802.11g	01	-4.69	≤8.00	Pass
	06	-2.09		
	11	-2.50		
802.11n(HT20)	01	-3.88	≤8.00	Pass
	06	-3.84		
	11	-4.05		

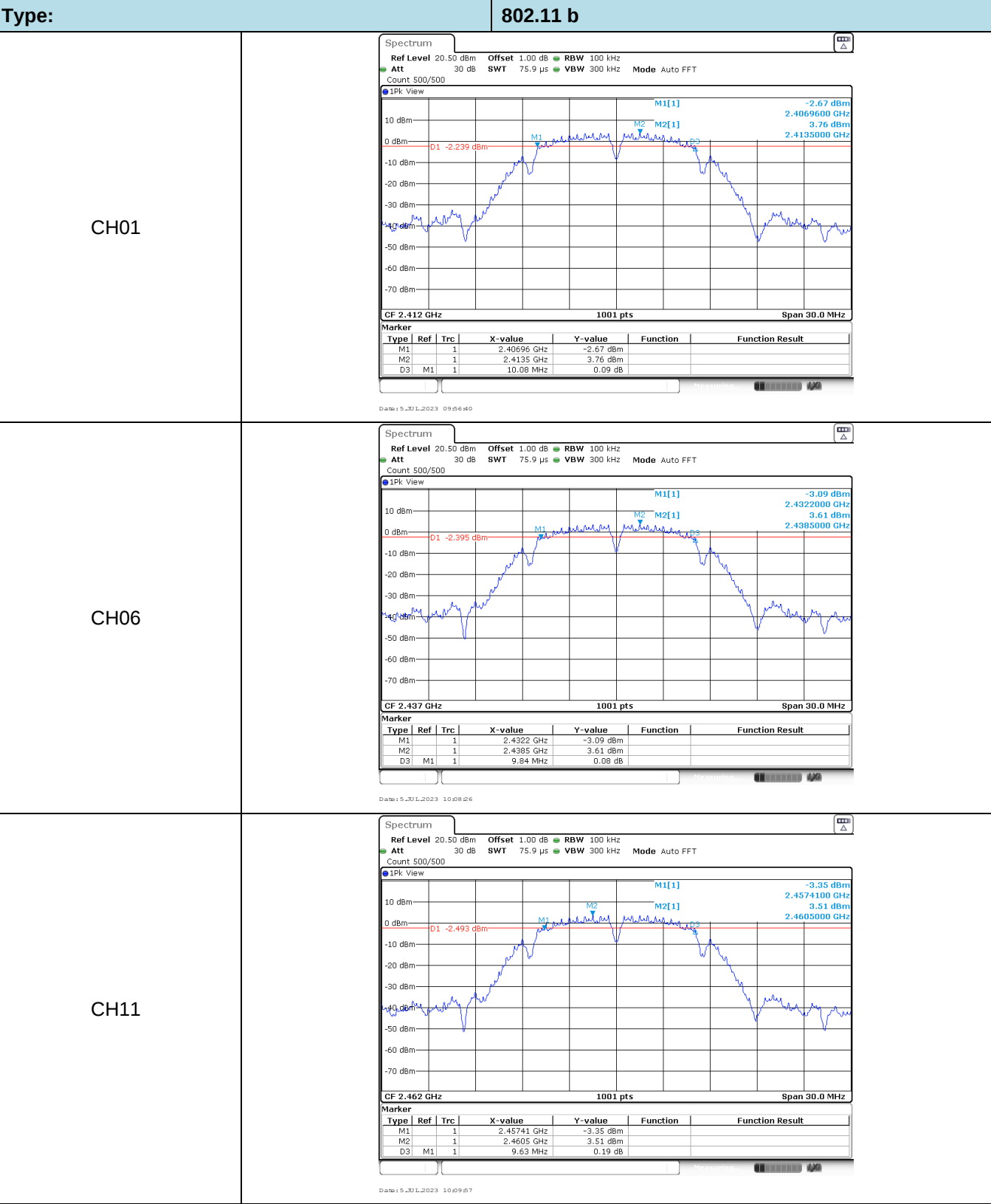
Type:		802.11 b
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 2.92 dBm 2.4127410 GHz CF 2.412 GHz 691 pts Span 16.0 MHz Date: 5 JUL 2023 09:57:52	
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 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 2.80 dBm 2.4377410 GHz CF 2.437 GHz 691 pts Span 16.0 MHz Date: 5 JUL 2023 10:09:02	
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 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 2.47 dBm 2.4627410 GHz CF 2.462 GHz 691 pts Span 16.0 MHz Date: 5 JUL 2023 10:10:15	

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] -4.69 dBm 2.4063560 GHz  CF 2.412 GHz 691 pts Span 25.0 MHz Date: 5 JUL 2023 10:13:20	
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] -2.09 dBm 2.4394960 GHz  CF 2.437 GHz 691 pts Span 25.0 MHz Date: 5 JUL 2023 10:15:29	
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] -2.50 dBm 2.4694890 GHz  CF 2.462 GHz 691 pts Span 25.0 MHz Date: 5 JUL 2023 10:17:25	

Type:		802.11n(HT20)
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] -3.88 dBm 2.4057410 GHz  CF 2.412 GHz 691 pts Span 25.0 MHz Date: 5 JUL 2023 10:19:22	
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] -3.84 dBm 2.4444890 GHz  CF 2.437 GHz 691 pts Span 25.0 MHz Date: 5 JUL 2023 10:21:13	
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] -4.05 dBm 2.4694890 GHz  CF 2.462 GHz 691 pts Span 25.0 MHz Date: 5 JUL 2023 10:22:25	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	10.08	≥0.5	Pass
	06	9.84		
	11	9.63		
802.11g	01	16.38	≥0.5	Pass
	06	16.38		
	11	16.38		
802.11n(HT20)	01	17.61	≥0.5	Pass
	06	17.61		
	11	17.61		



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Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.23	-	Pass
	06	12.23		
	11	12.14		
802.11g	01	17.14	-	Pass
	06	17.26		
	11	17.50		
802.11n(HT20)	01	17.86	-	Pass
	06	17.86		
	11	17.92		

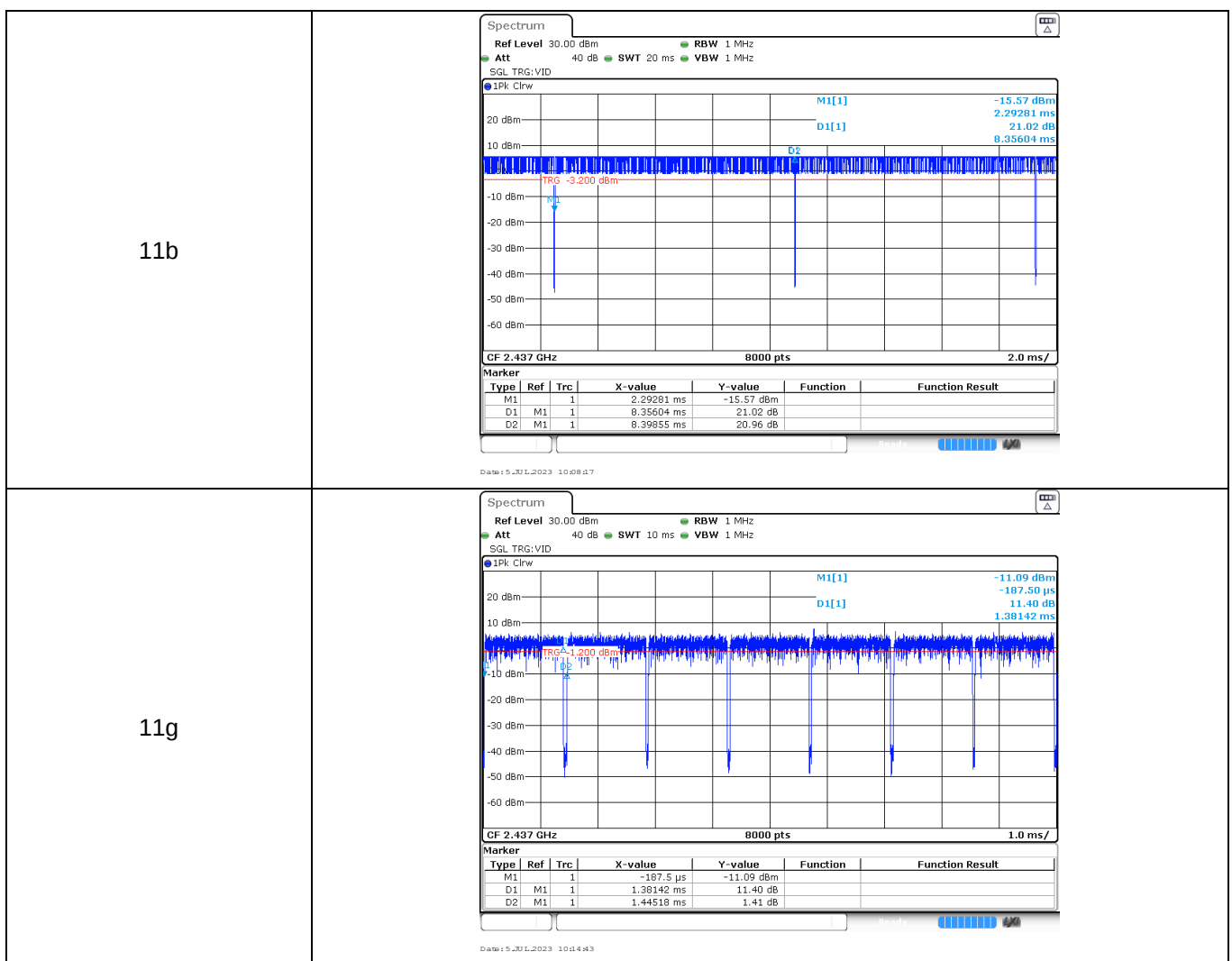
Type:		802.11 b
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] 5.28 dBm 2.4134990 GHz 12.227772228 MHz MI Occ Bw T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 5 JUL 2023 09:56:48	
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 MI[1] 5.07 dBm 2.4384990 GHz 12.227772228 MHz MI Occ Bw 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: 5 JUL 2023 10:08:33	
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 MI[1] 4.84 dBm 2.4634990 GHz 12.137862138 MHz MI Occ Bw 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: 5 JUL 2023 10:10:04	

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 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] Occ Bw M1 T1 T2 1.87 dBm 2.4096020 GHz 17.142857143 MHz CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 5 JUL 2023 10:11:45	
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 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] Occ Bw M1 T1 T2 3.99 dBm 2.4426940 GHz 17.262737263 MHz CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 5 JUL 2023 10:14:59	
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 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] Occ Bw M1 T1 T2 4.49 dBm 2.4648770 GHz 17.502497502 MHz CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 5 JUL 2023 10:16:53	

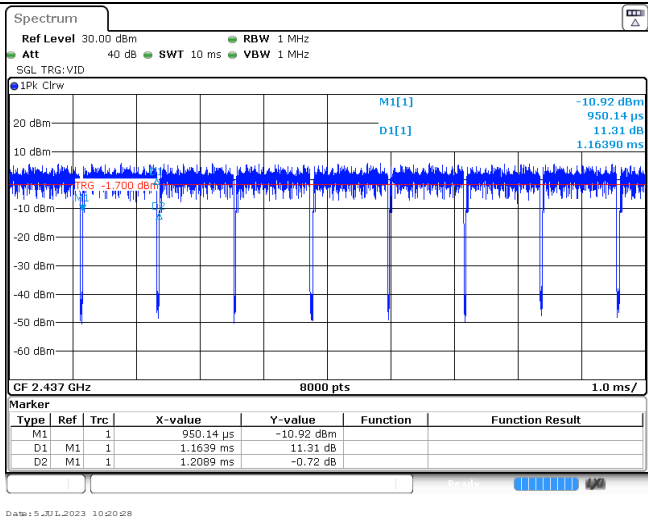
Type:		802.11n(HT20)	
CH01		Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1 M1[1] Occ Bw 4.01 dBm 2.4052270 GHz 17.862137862 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 5 JUL 2023 10:18:52	
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 M1[1] Occ Bw 3.92 dBm 2.4402370 GHz 17.862137862 MHz 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: 5 JUL 2023 10:20:44	
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 M1[1] Occ Bw 4.13 dBm 2.4652370 GHz 17.922077922 MHz 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: 5 JUL 2023 10:22:14	

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	8.40	99.5%	0.1
11g	2437	1.38	1.45	95.2%	0.7
11n20	2437	1.16	1.21	95.9%	0.9



11n20



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 μ s VBW 300 kHz Mode Auto FFT
Count 300/300

1Pk Max

M1[1] 3.74 dBm 2.410410 GHz
M2[1] -39.24 dBm 2.410410 GHz
M3 -51.84 dBm 2.39 GHz
M4 -59.11 dBm 2.31 GHz
M5 -35.30 dBm 2.399113 GHz

D1 -16.260 dBm

Start 2.31 GHz 691 pts Stop 2.422 GHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.41041 GHz	3.74 dBm		
M2	1		2.4 GHz	-39.24 dBm		
M3	1		2.39 GHz	-51.84 dBm		
M4	1		2.31 GHz	-59.11 dBm		
M5	1		2.399113 GHz	-35.30 dBm		

Date: 5 JUL 2023 09:58:01

CH11

Spectrum

Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz
Att 30 dB SWT 113.8 μ s VBW 300 kHz Mode Auto FFT
Count 300/300

1Pk Max

M1 3.22 dBm 2.460996 GHz
M2[1] -52.42 dBm 2.4835000 GHz
M3 -57.61 dBm 2.5 GHz
M4 -51.45 dBm 2.484487 GHz

D1 -16.780 dBm

Start 2.452 GHz 691 pts Stop 2.5 GHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.460996 GHz	3.22 dBm		
M2	1		2.4635 GHz	-52.42 dBm		
M3	1		2.5 GHz	-57.61 dBm		
M4	1		2.484487 GHz	-51.45 dBm		

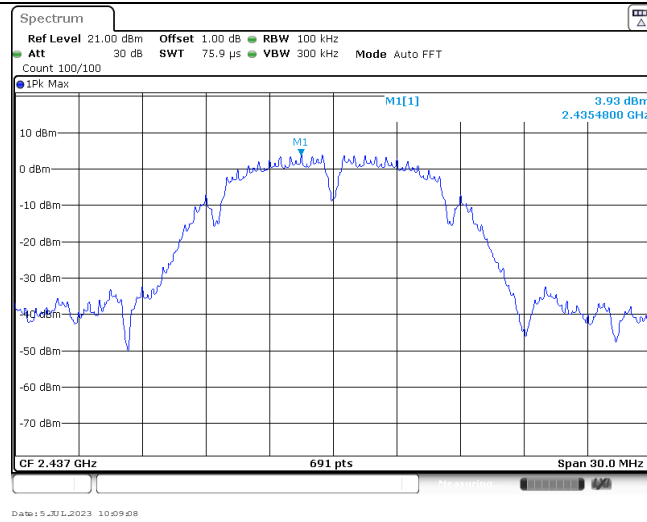
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Test Item:	Bandedge	Type:	802.11 g																																										
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 -0.05 dBm 2.405710 GHz -31.98 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.422 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>2.40571 GHz</td><td>-0.05 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-31.98 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-44.02 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-59.63 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398788 GHz</td><td>-30.49 dBm</td><td></td><td></td></tr></table> Date: 5 JUL 2023 10:13:29			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40571 GHz	-0.05 dBm			M2	1		2.4 GHz	-31.98 dBm			M3	1		2.39 GHz	-44.02 dBm			M4	1		2.31 GHz	-59.63 dBm			M5	1		2.398788 GHz	-30.49 dBm		
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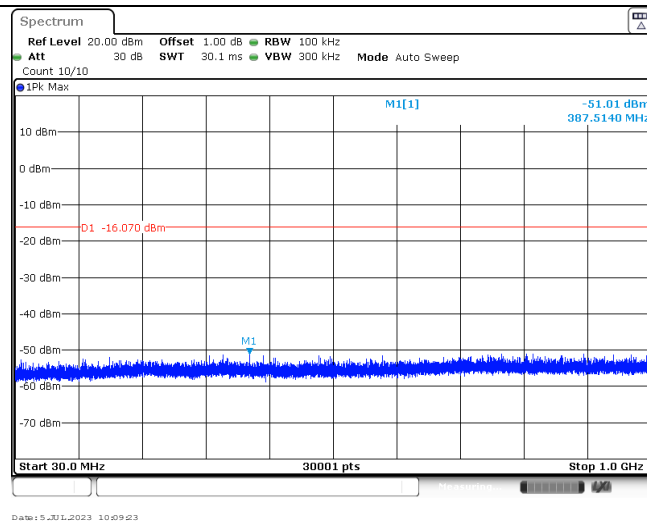
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
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M4	1		2.4838609 GHz	-44.71 dBm																																									

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

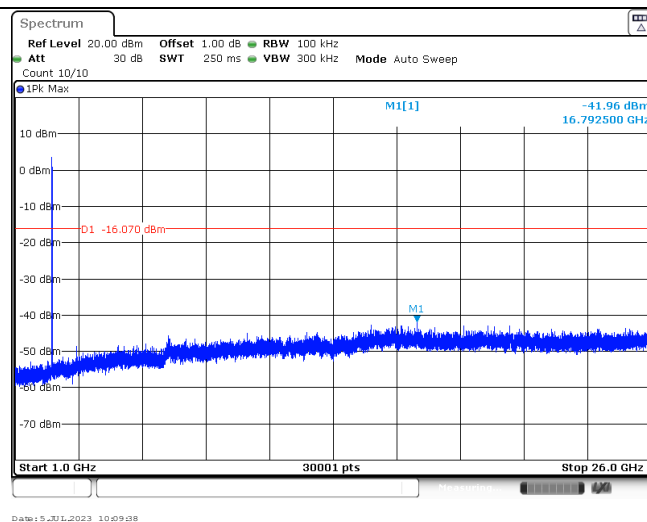
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Reference level



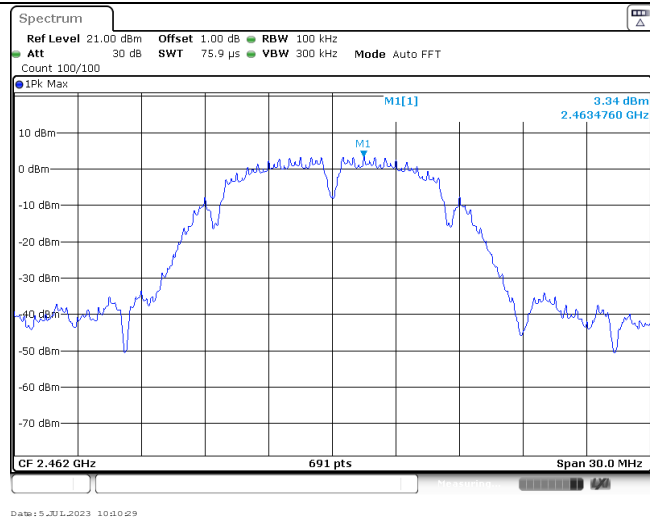
CH06
30MHz~1000MHz



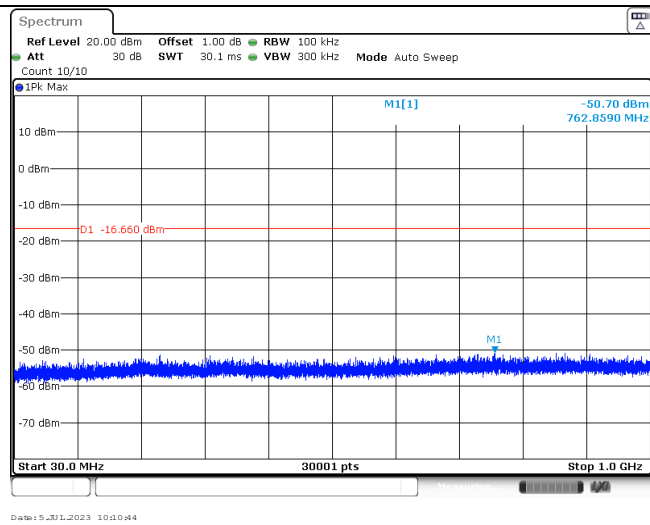
CH06
1GHz~26GHz



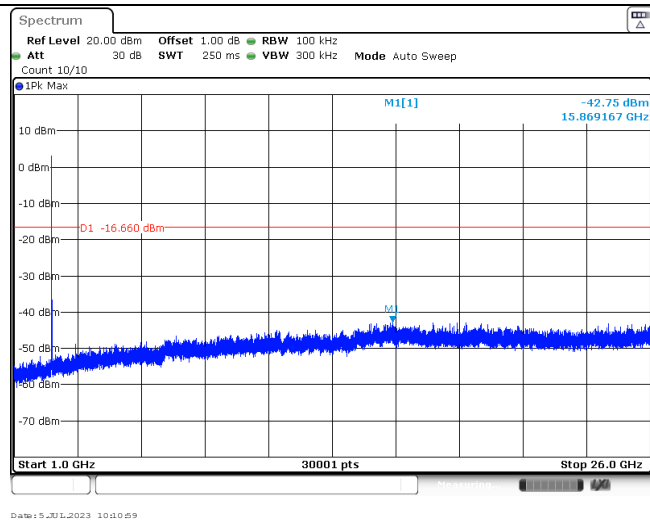
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Reference level

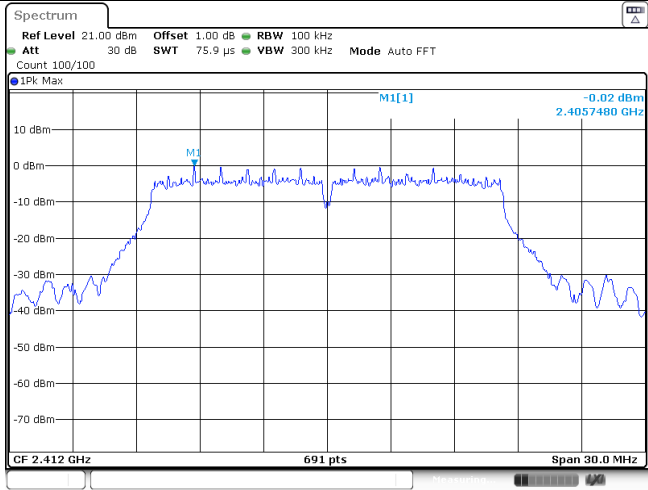
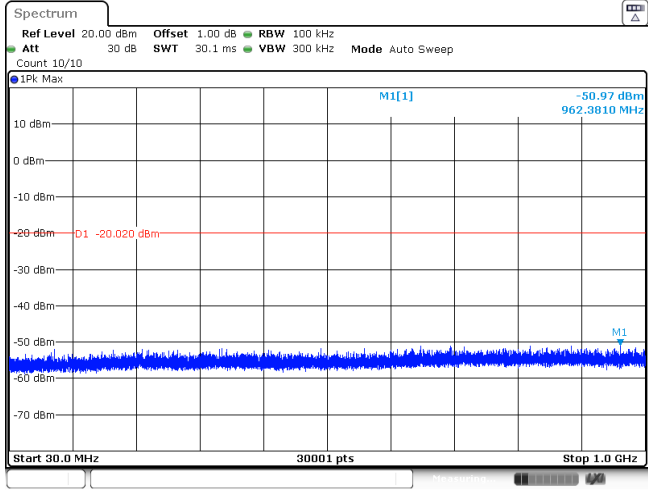
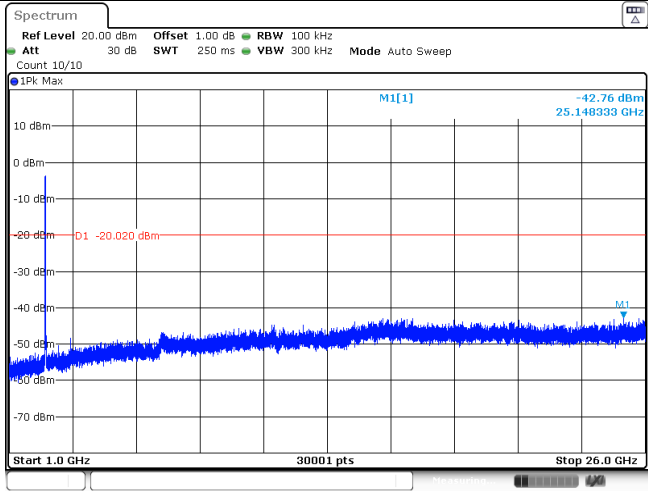


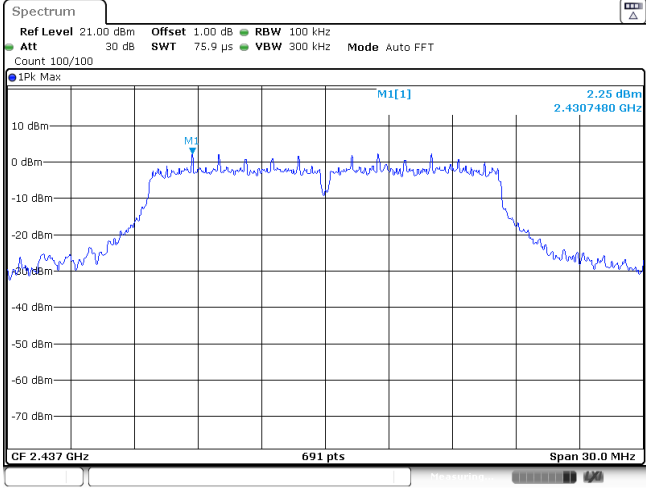
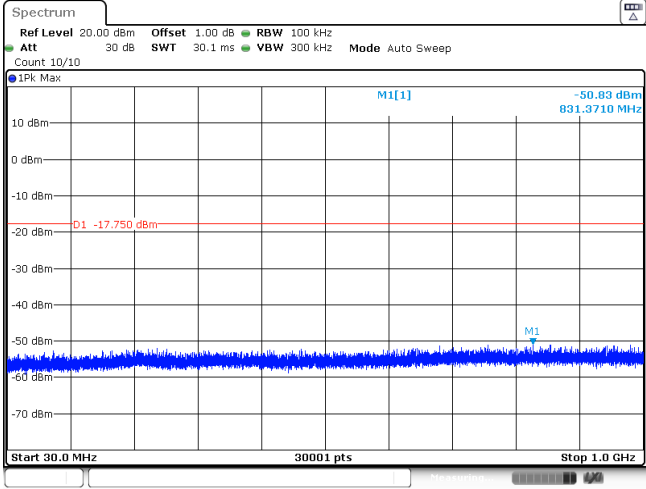
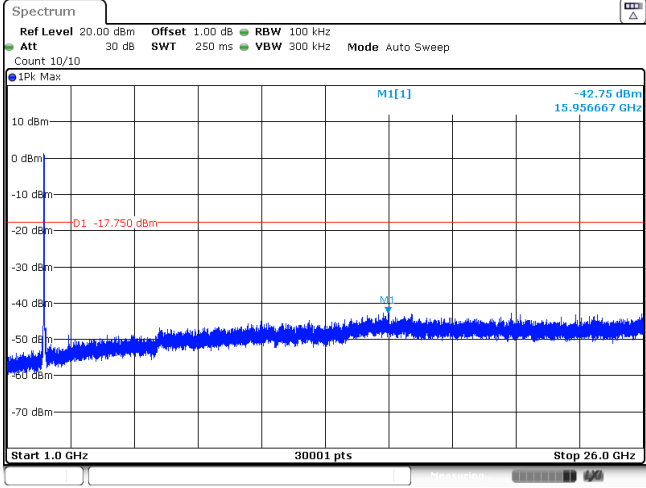
CH11
30MHz~1000MHz

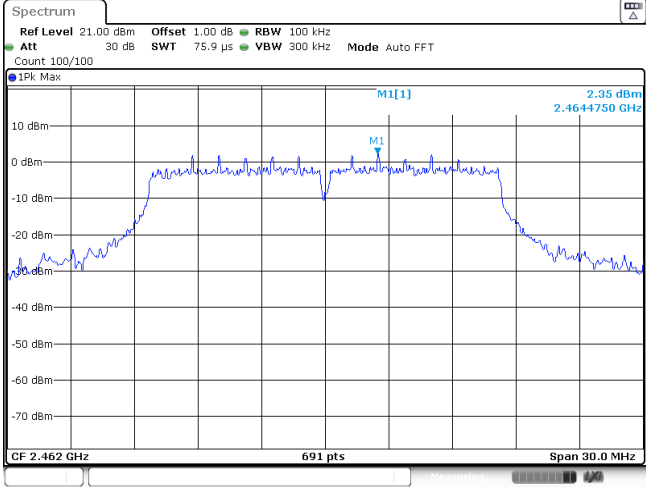
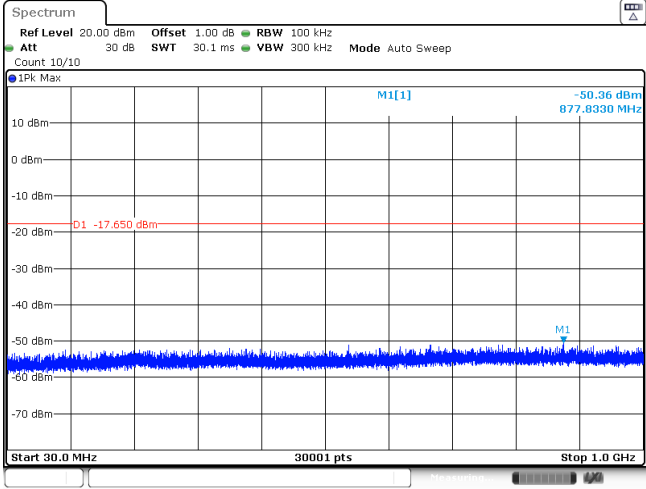
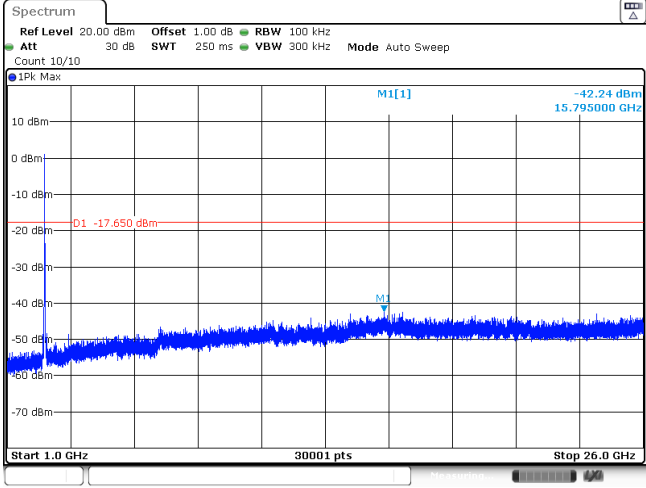


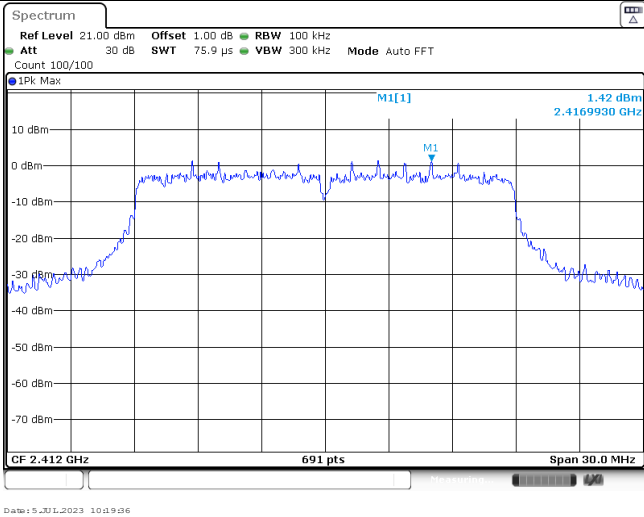
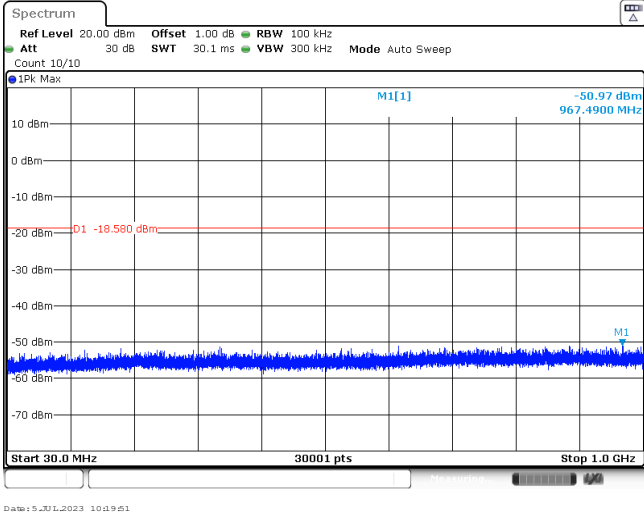
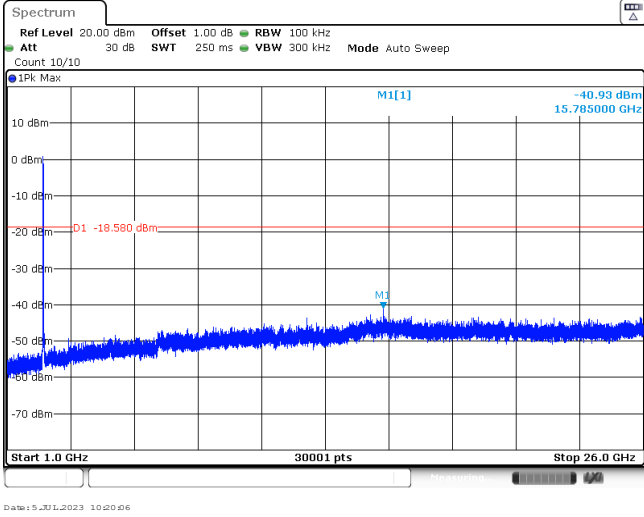
CH11
1GHz~26GHz



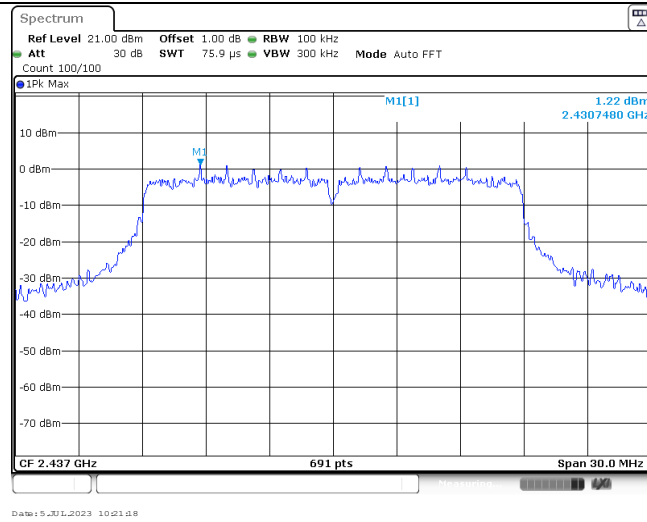
Test Item:	Spurious Emissions	Type:	802.11 g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 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 IPk Max M1 2.25 dBm 2.4307480 GHz CF 2.437 GHz 691 pts Span 30.0 MHz Date: 5 JUL 2023 10:15:57
CH06 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 IPk Max M1 -50.83 dBm 891.3710 MHz D1 -17.750 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 5 JUL 2023 10:16:12
CH06 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 IPk Max M1 -42.75 dBm 15.956667 GHz D1 -17.750 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 5 JUL 2023 10:16:27

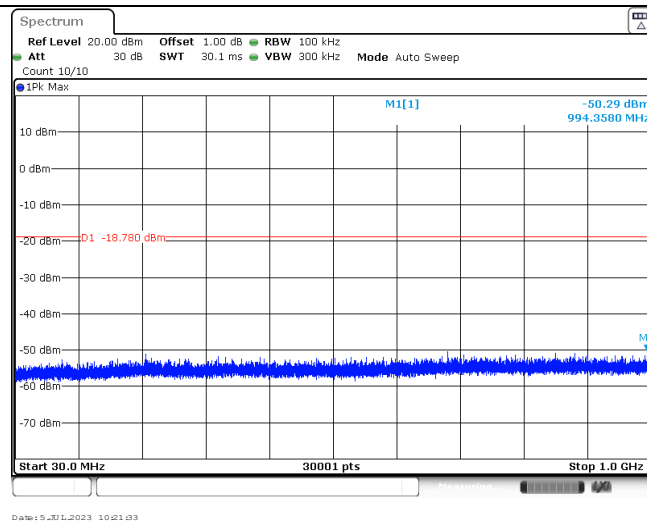
CH11 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] 2.35 dBm 2.4644750 GHz CF 2.462 GHz 691 pts Span 30.0 MHz Date: 5 JUL 2023 10:17:39
CH11 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -50.36 dBm 877.8330 MHz D1 -17.650 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 5 JUL 2023 10:17:54
CH11 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 IPk Max M1[1] -42.24 dBm 15.795000 GHz D1 -17.650 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 5 JUL 2023 10:18:09

Test Item:	Spurious Emissions	Type:	802.11 n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

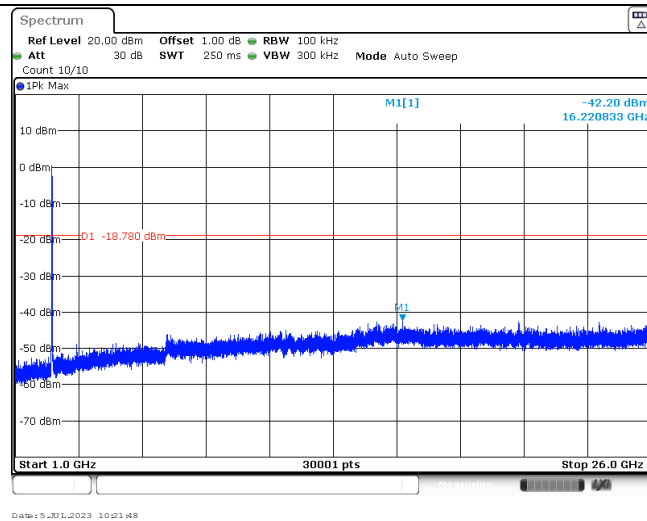
CH06
Reference level

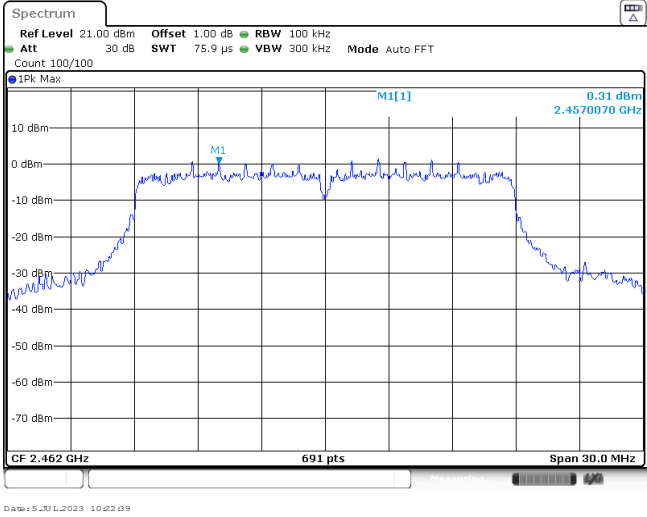
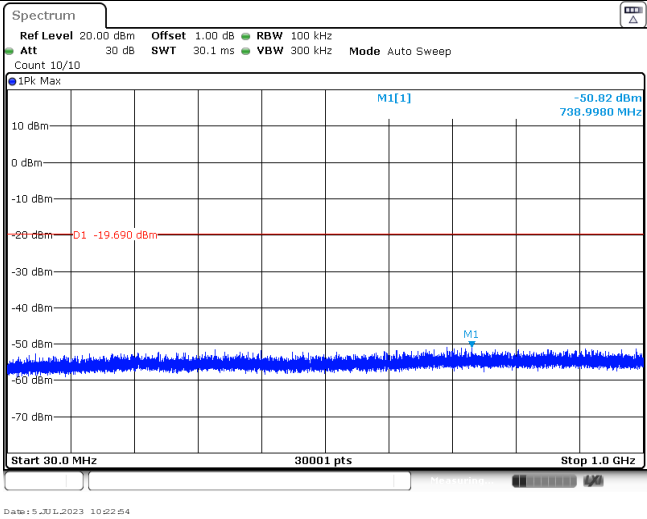
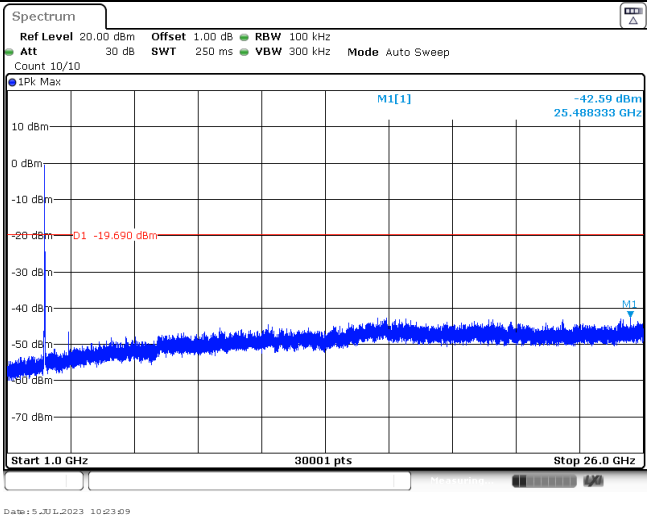


CH06
30MHz~1000MHz



CH06
1GHz~26GHz



CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

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