

APPENDIX REPORT

Project No.	SHT2106117007EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21061170008	Model No.	C6100
Start test date	2021-10-19	Finish date	2021-10-19
Temperature	25.8℃	Humidity	29%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhu

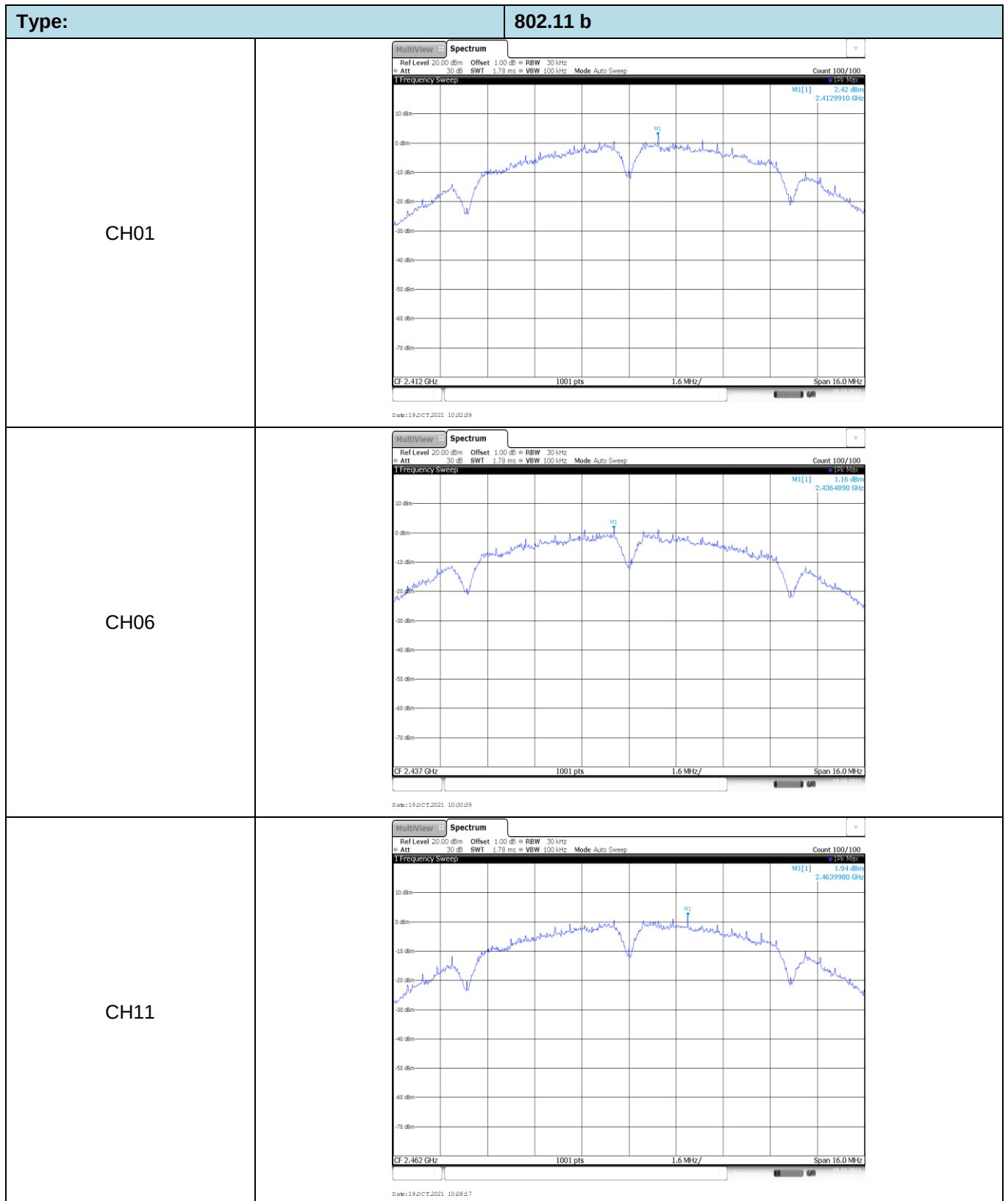
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

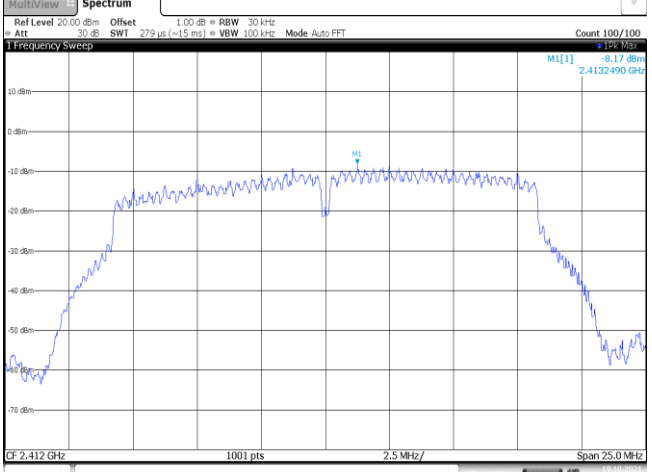
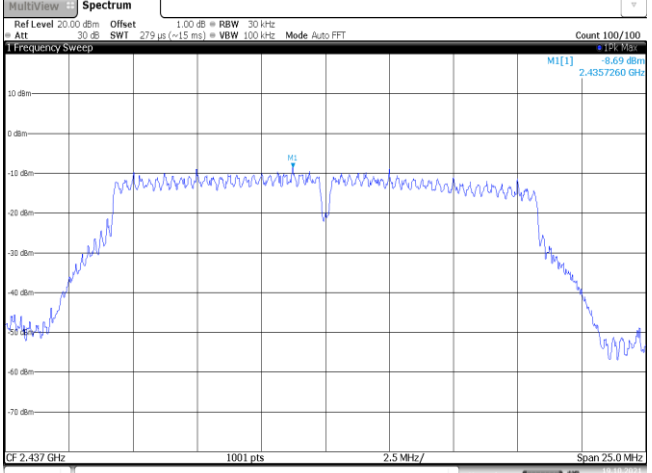
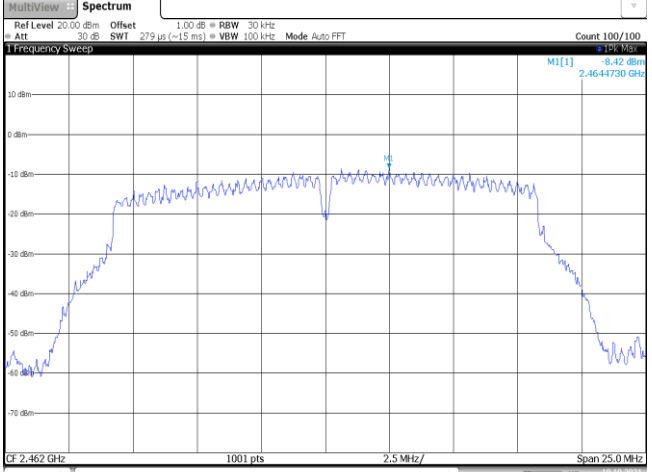
Appendix A: Conducted Peak Output Power

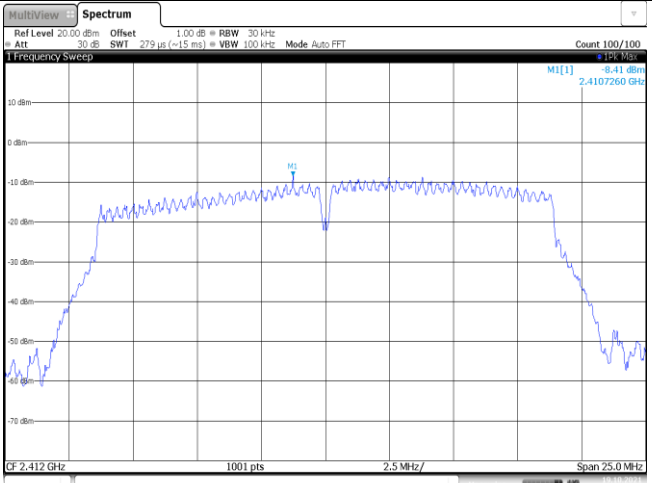
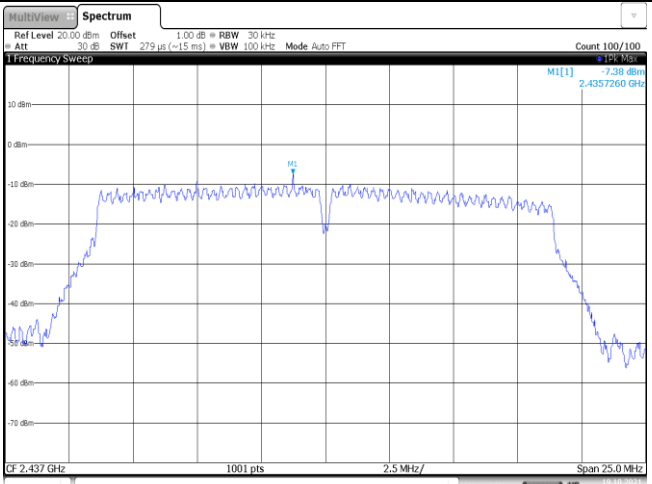
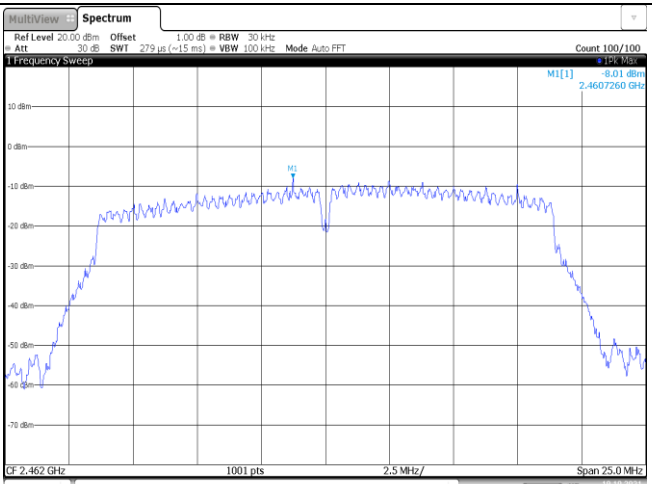
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	15.28	12.85	≤ 30.00	Pass
	06	15.04	12.60		
	11	15.10	12.68		
802.11g	01	15.32	12.64	≤ 30.00	Pass
	06	15.25	12.54		
	11	15.33	12.66		
802.11n (HT20)	01	15.19	12.50	≤ 30.00	Pass
	06	15.18	12.44		
	11	15.16	12.42		
802.11n(HT40)	03	15.61	12.74	≤ 30.00	Pass
	06	15.35	12.58		
	09	15.62	12.82		

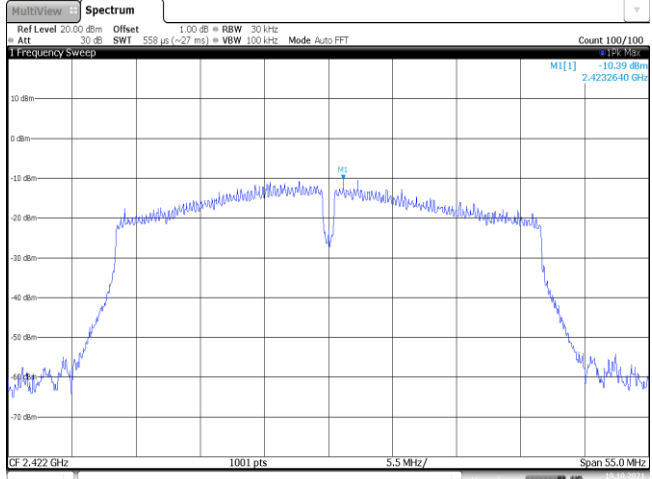
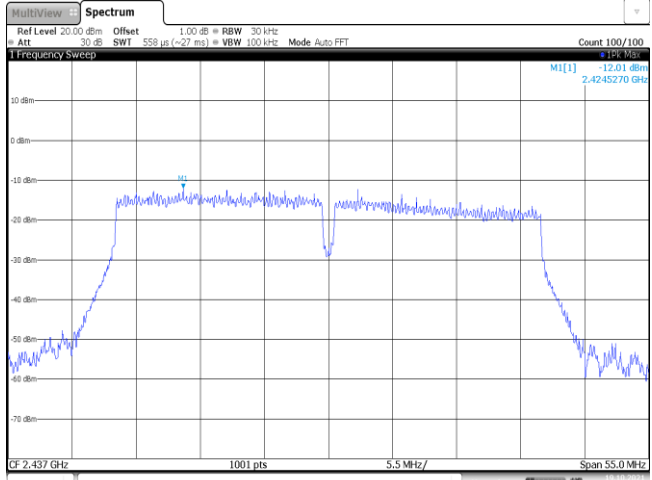
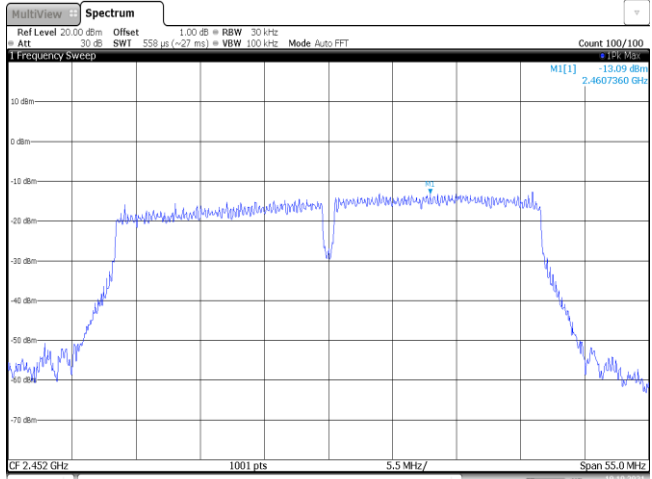
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	2.42	≤8.00	Pass
	06	1.16		
	11	1.94		
802.11g	01	-8.17	≤8.00	Pass
	06	-8.69		
	11	-8.42		
802.11n(HT20)	01	-8.41	≤8.00	Pass
	06	-7.38		
	11	-8.01		
802.11n(HT40)	03	-10.39	≤8.00	Pass
	06	-12.01		
	09	-13.09		



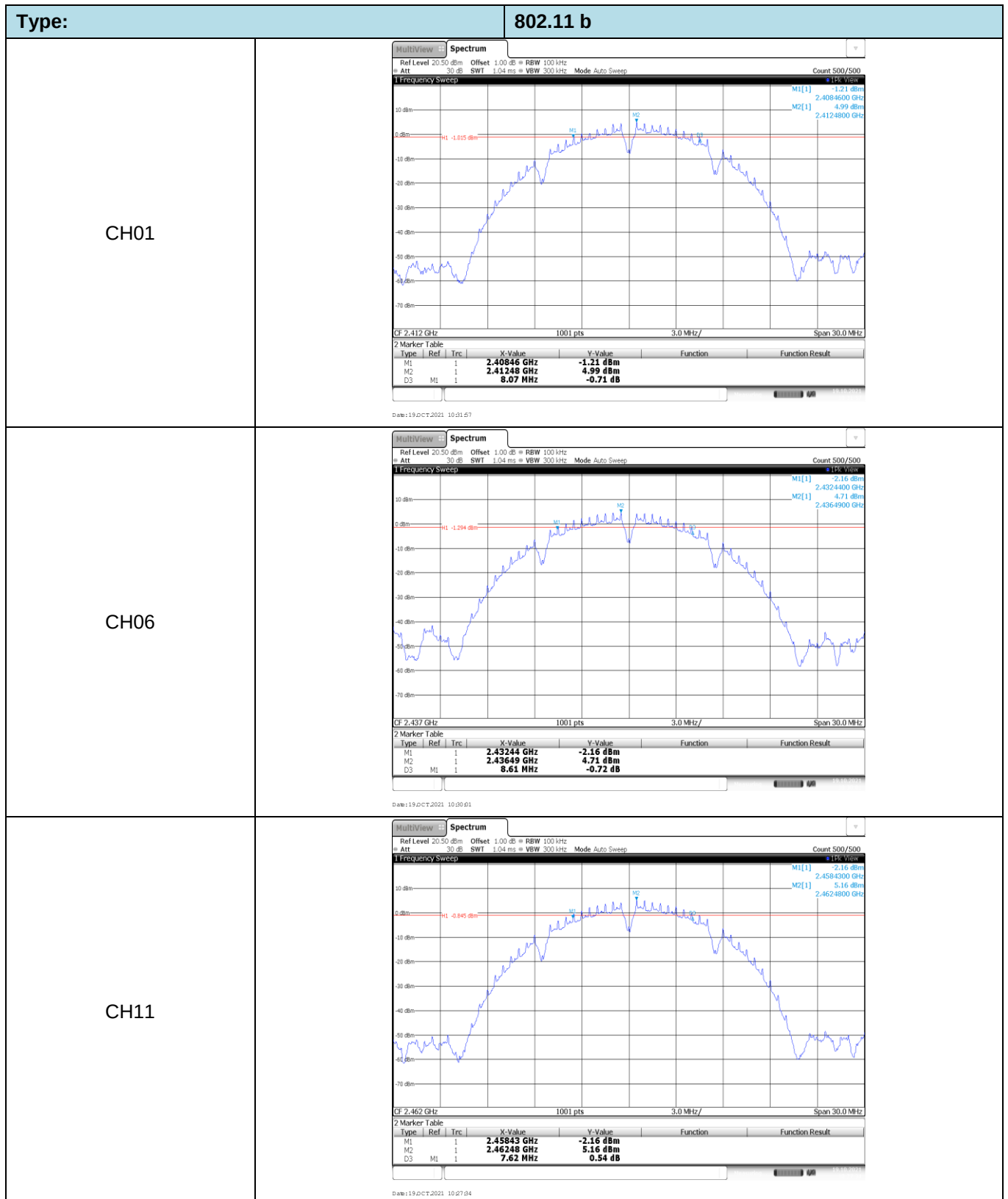
Type:	802.11 g
CH01	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -8.17 dBm 2.412490 GHz Date: 19 Oct 2021 10:07:46
CH06	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -8.69 dBm 2.4357260 GHz Date: 19 Oct 2021 10:40:11
CH11	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -8.42 dBm 2.4644730 GHz Date: 19 Oct 2021 10:42:22

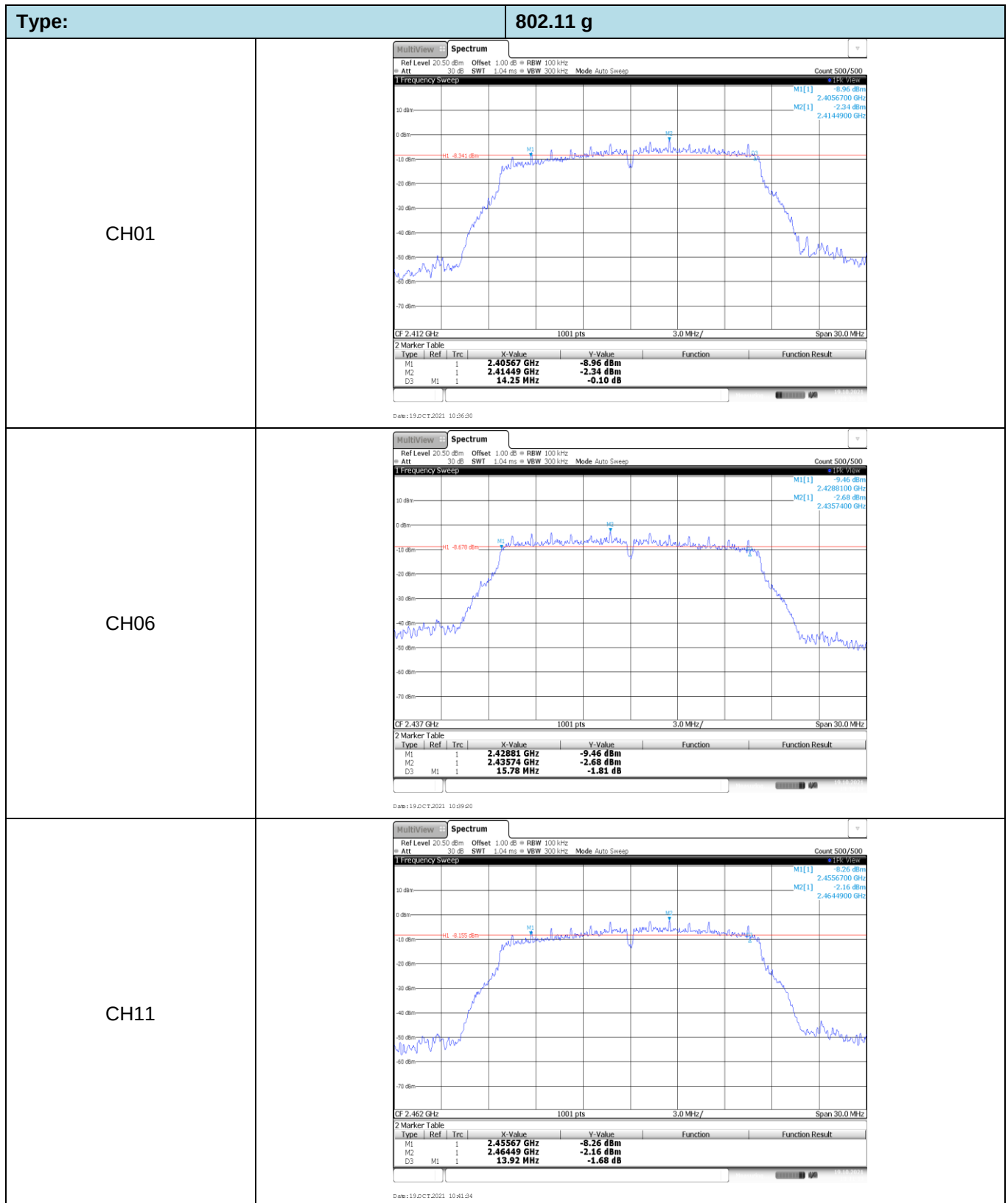
Type:	802.11n(HT20)
CH01	 Ref Level 20.00 dBm Att 30 dB SWI 279 us (~15 ms) BW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 M1[1] 8.41 dBm 2.4107260 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 19/07/2021 10:45:44
CH06	 Ref Level 20.00 dBm Att 30 dB SWI 279 us (~15 ms) BW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 M1[1] -7.38 dBm 2.4357260 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 19/07/2021 10:48:22
CH11	 Ref Level 20.00 dBm Att 30 dB SWI 279 us (~15 ms) BW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 M1[1] 8.01 dBm 2.4607260 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 19/07/2021 10:50:44

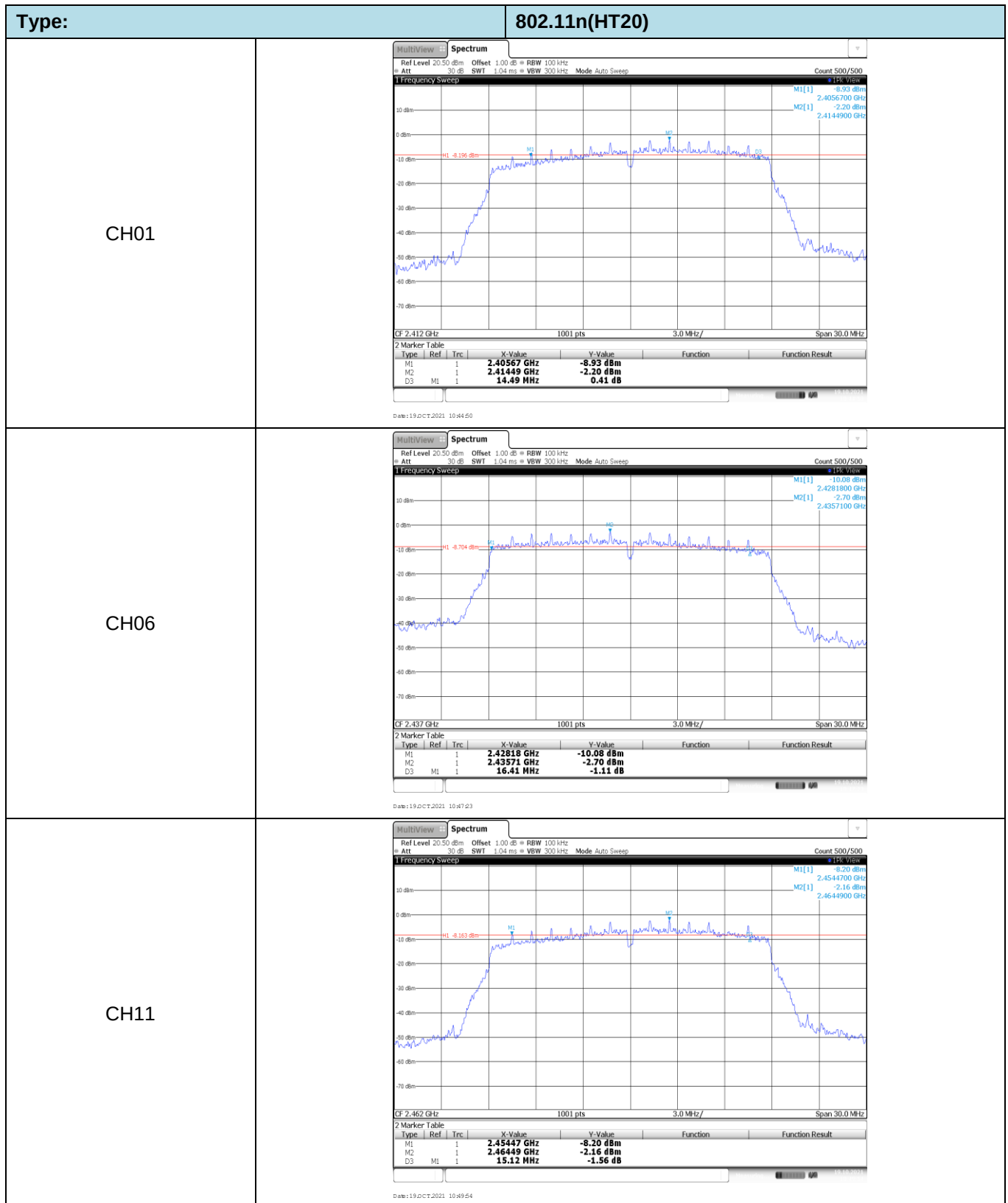
Type:	802.11n(HT40)
CH03	 The spectrum plot for CH03 shows a signal centered at 2.422 GHz. The peak level is -10.39 dBm. The plot includes a frequency sweep from 2.422 GHz to 2.422640 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 55.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWI 558 us (~27 ms), BW 30 kHz, VBW 100 kHz, Mode Auto FFT, Count 100/100. The plot is dated 19/07/2021 10:54:21.
CH06	 The spectrum plot for CH06 shows a signal centered at 2.4245270 GHz. The peak level is -12.01 dBm. The plot includes a frequency sweep from 2.4237 GHz to 2.4245270 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 55.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWI 558 us (~27 ms), BW 30 kHz, VBW 100 kHz, Mode Auto FFT, Count 100/100. The plot is dated 19/07/2021 10:59:04.
CH09	 The spectrum plot for CH09 shows a signal centered at 2.4607360 GHz. The peak level is -13.09 dBm. The plot includes a frequency sweep from 2.452 GHz to 2.4607360 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 55.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWI 558 us (~27 ms), BW 30 kHz, VBW 100 kHz, Mode Auto FFT, Count 100/100. The plot is dated 19/07/2021 11:01:37.

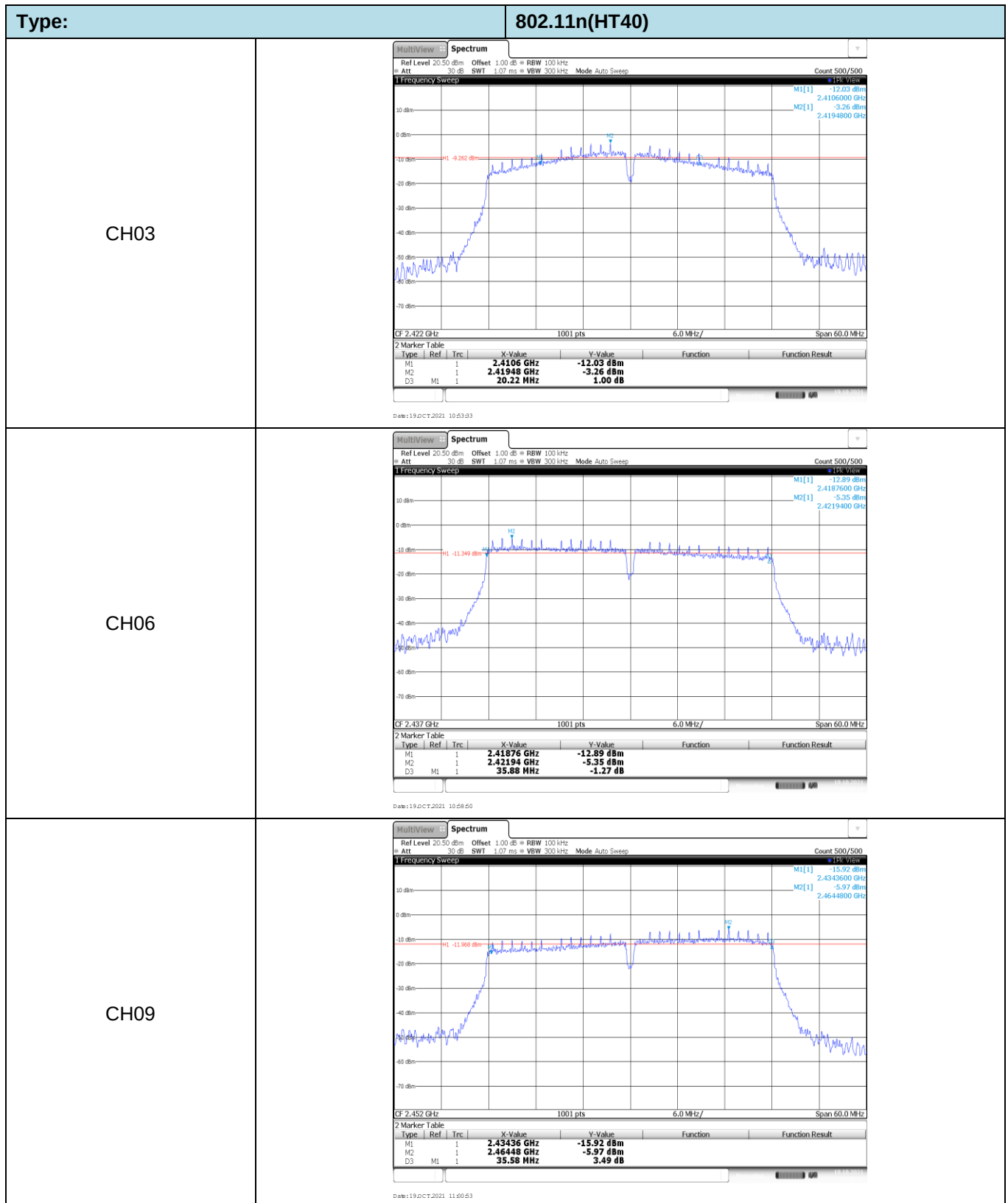
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.07	≥0.5	Pass
	06	8.61		
	11	7.62		
802.11g	01	14.25	≥0.5	Pass
	06	15.78		
	11	13.92		
802.11n(HT20)	01	14.49	≥0.5	Pass
	06	16.41		
	11	15.12		
802.11n(HT40)	03	20.22	≥0.5	Pass
	06	35.88		
	09	35.58		



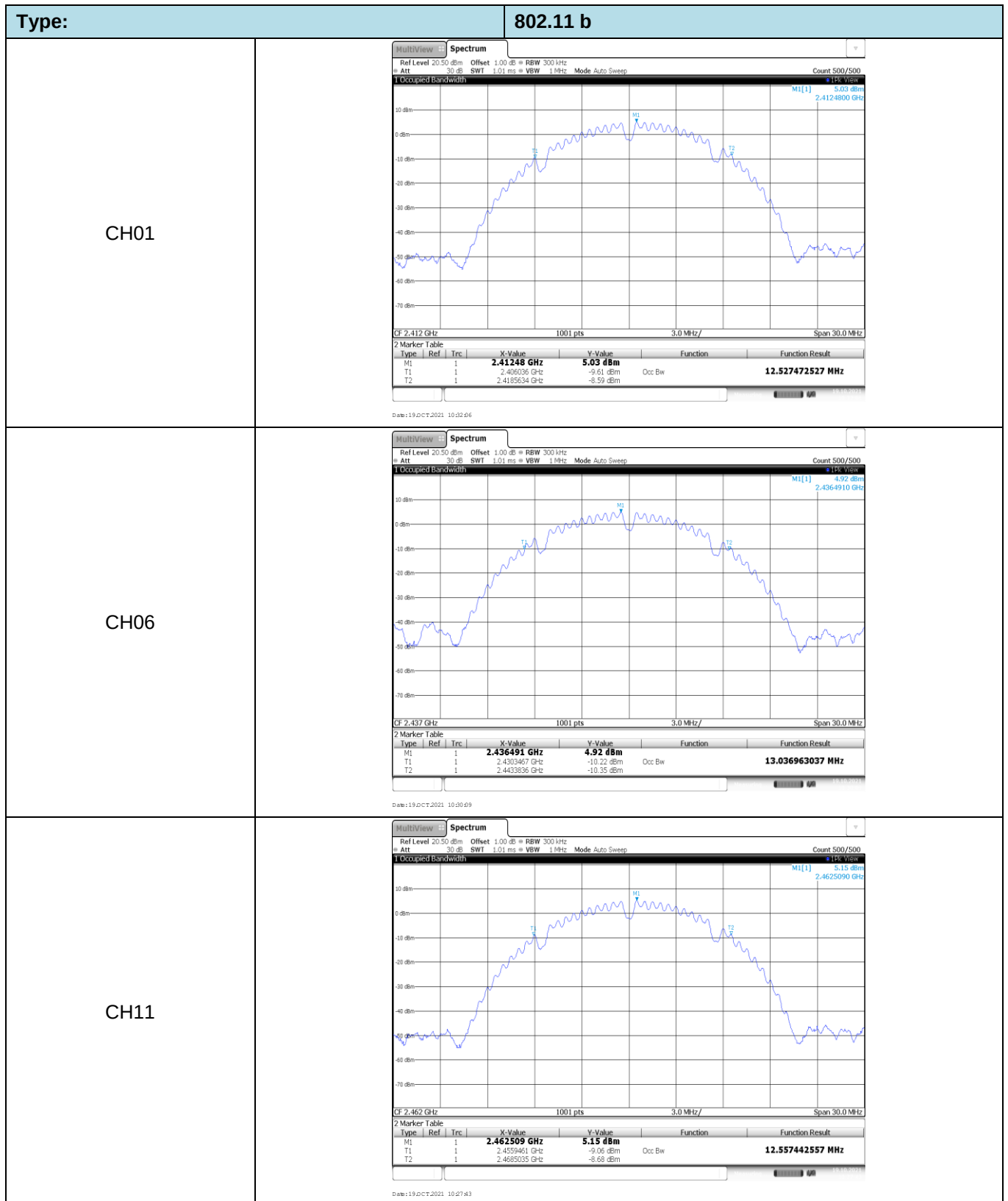


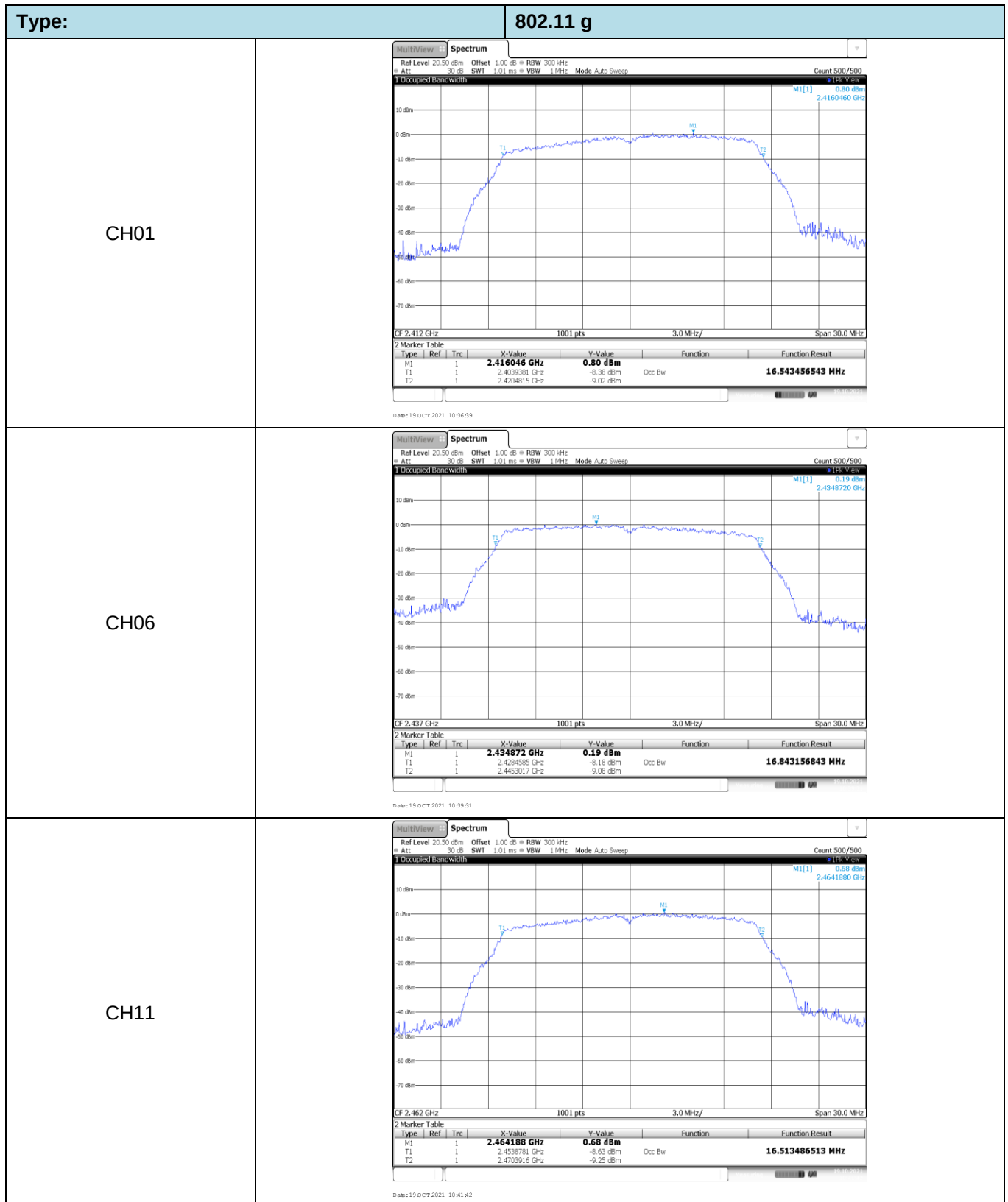


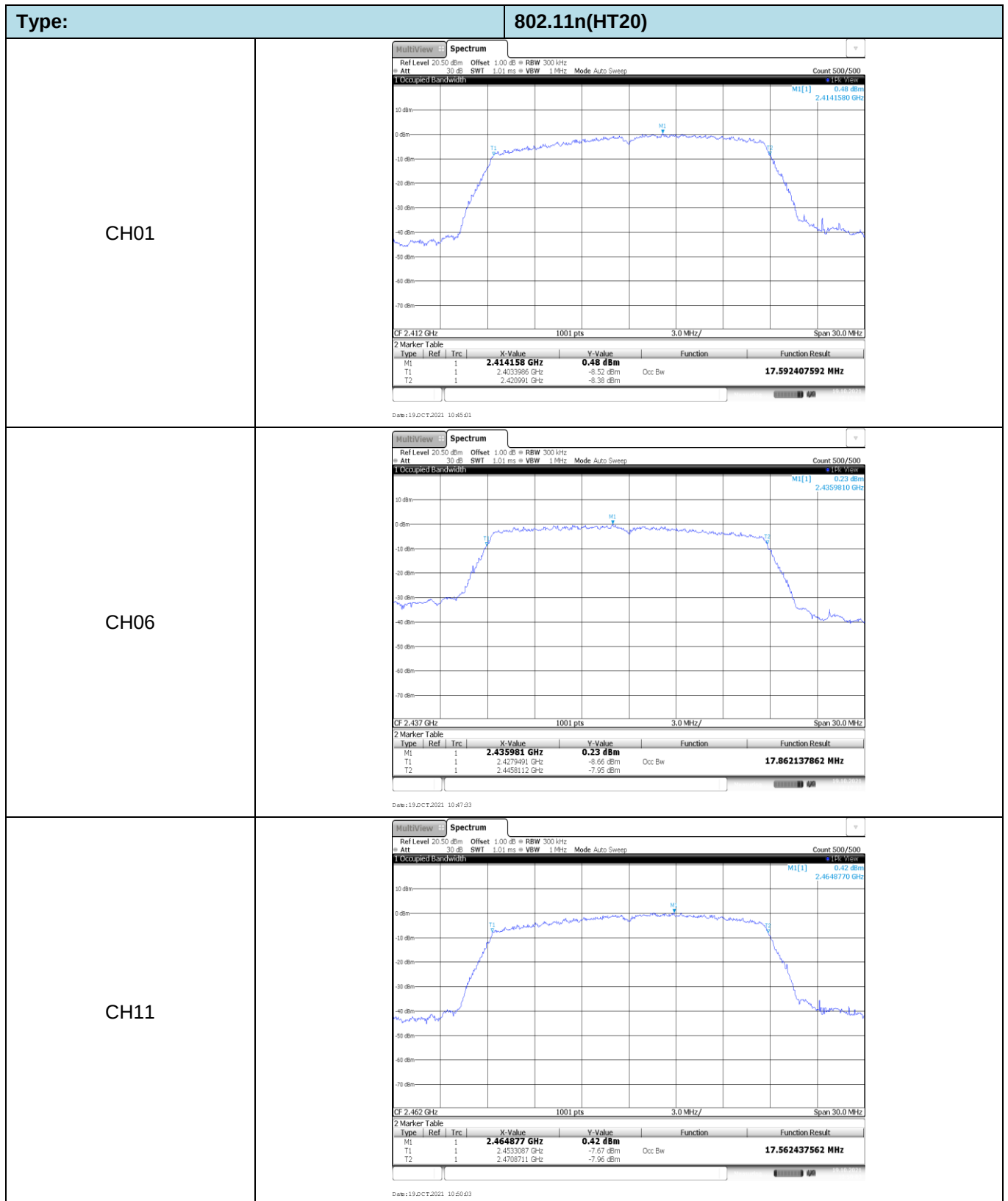


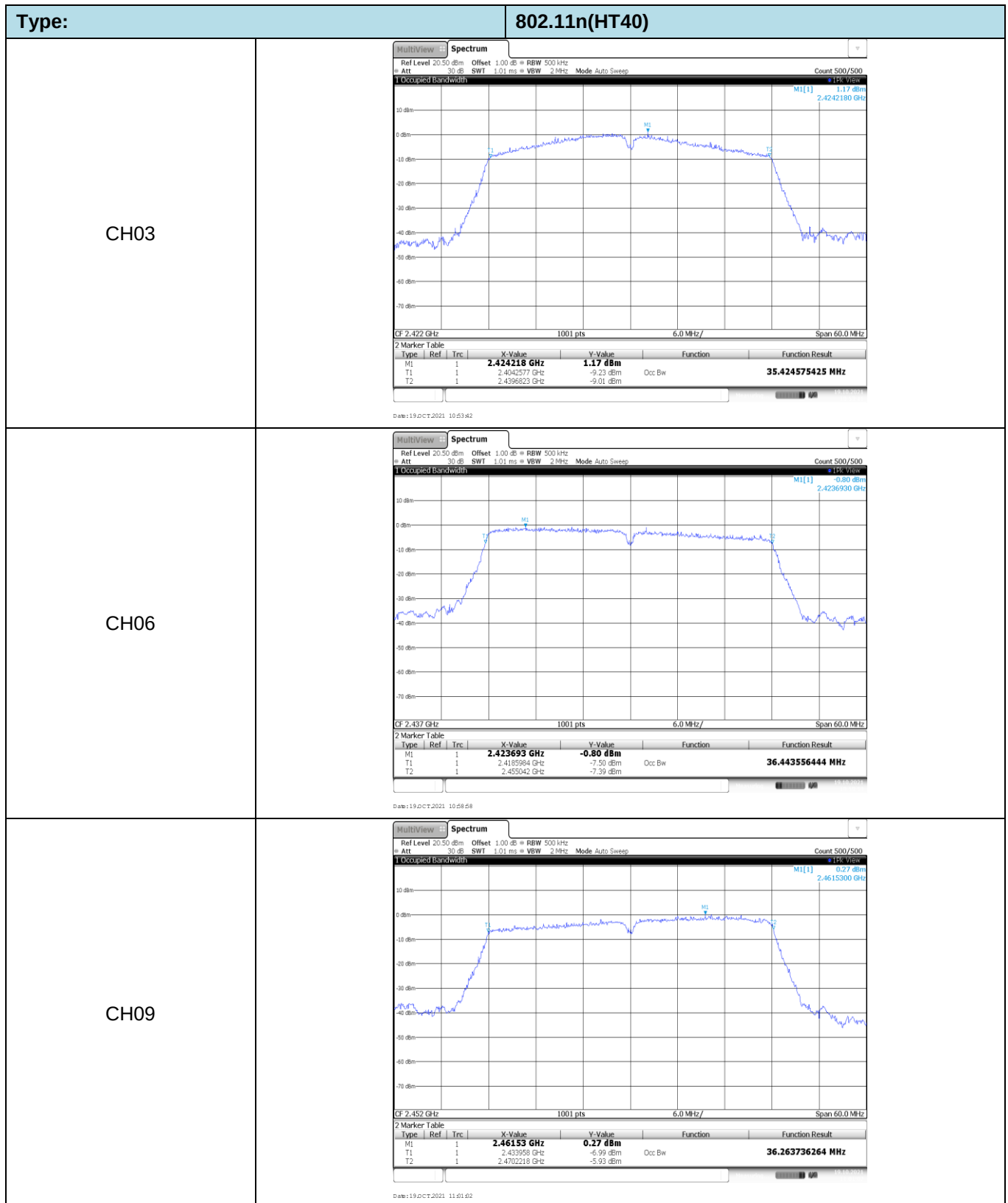
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.53	-	Pass
	06	13.04		
	11	12.56		
802.11g	01	16.54	-	Pass
	06	16.84		
	11	16.51		
802.11n(HT20)	01	17.59	-	Pass
	06	17.86		
	11	17.56		
802.11n(HT40)	03	35.42	-	Pass
	06	36.44		
	09	36.26		





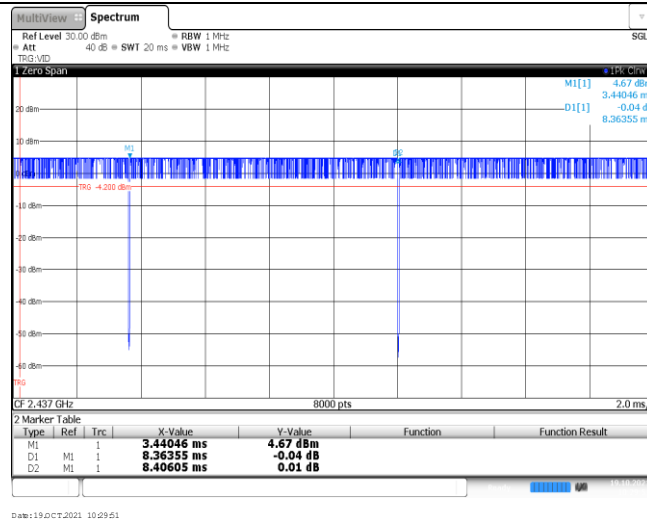




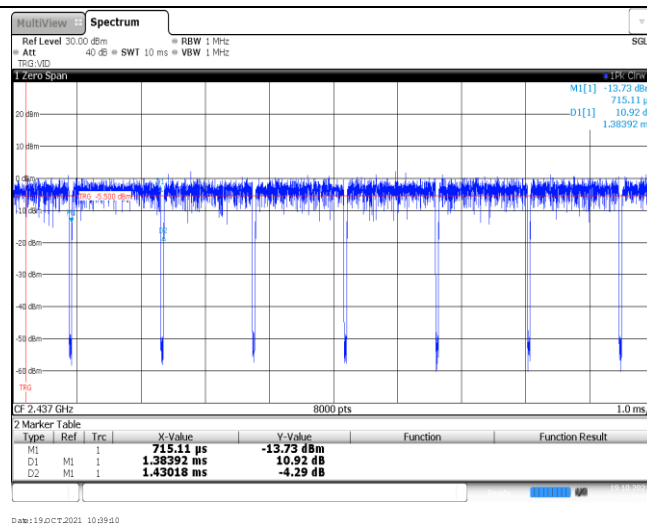
Appendix E: Duty Cycle

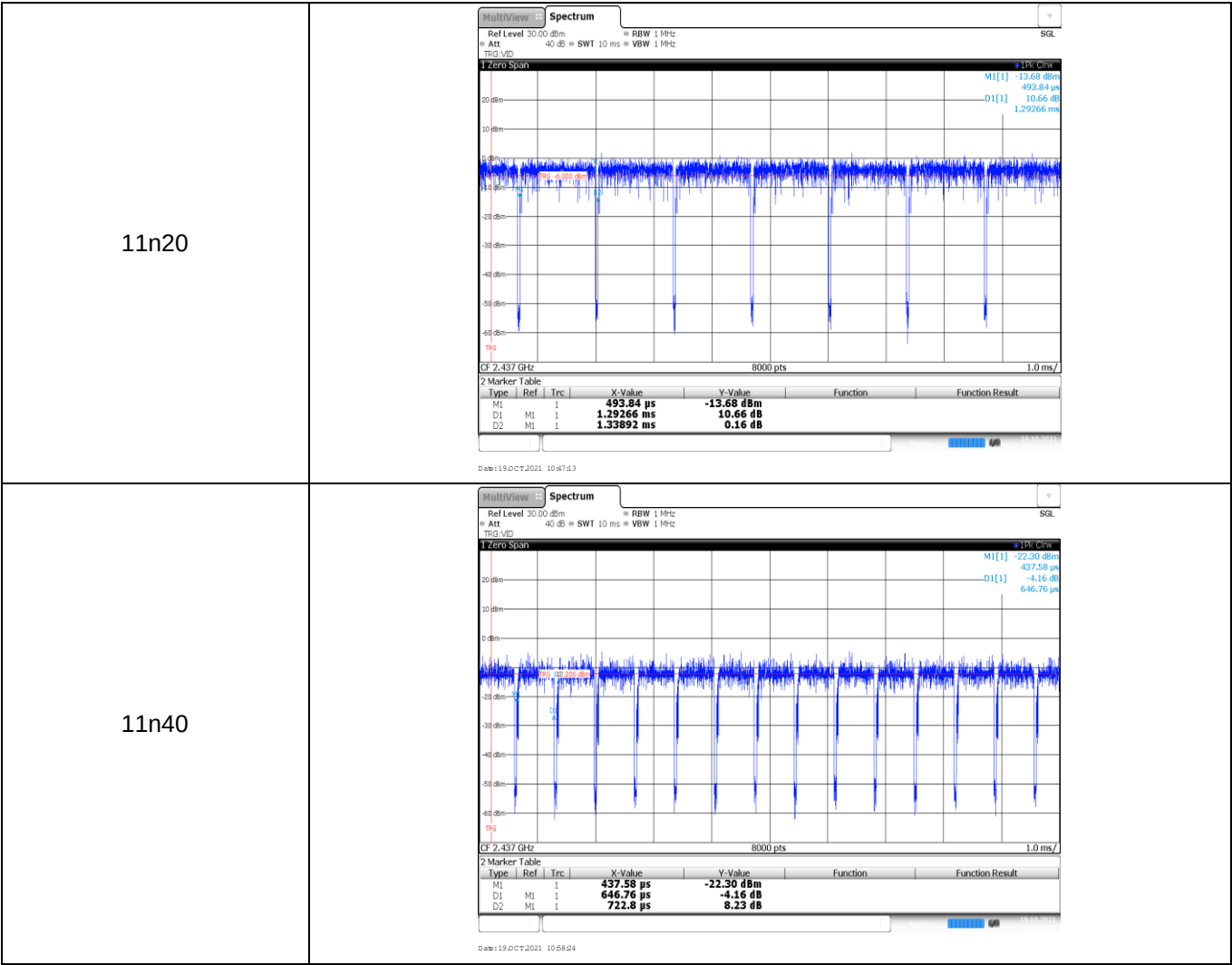
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.36	8.41	99.4%	0.1
11g	2437	1.38	1.43	96.5%	0.7
11n20	2437	1.29	1.34	96.3%	0.8
11n40	2437	0.65	0.72	90.3%	1.5

11b

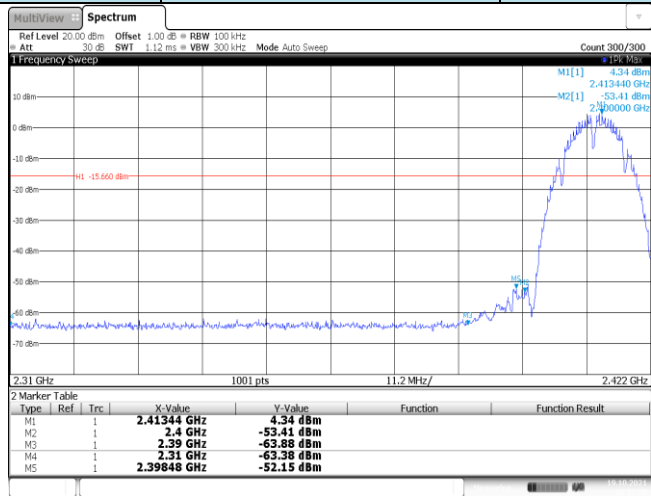
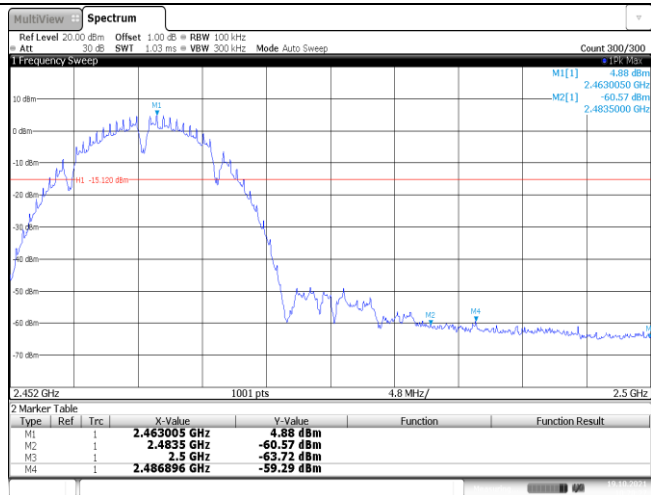


11g

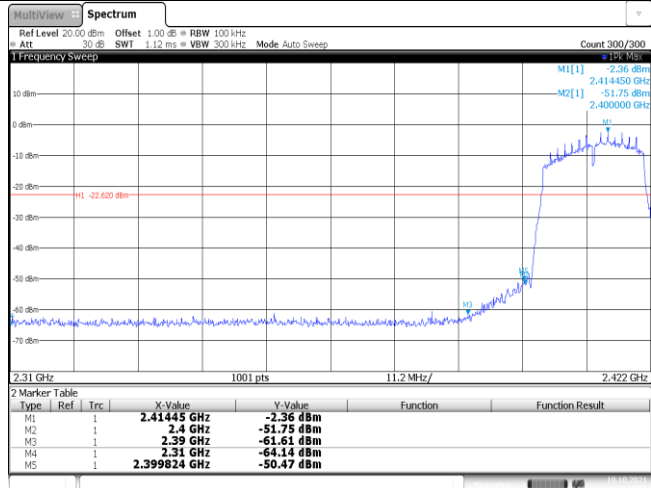
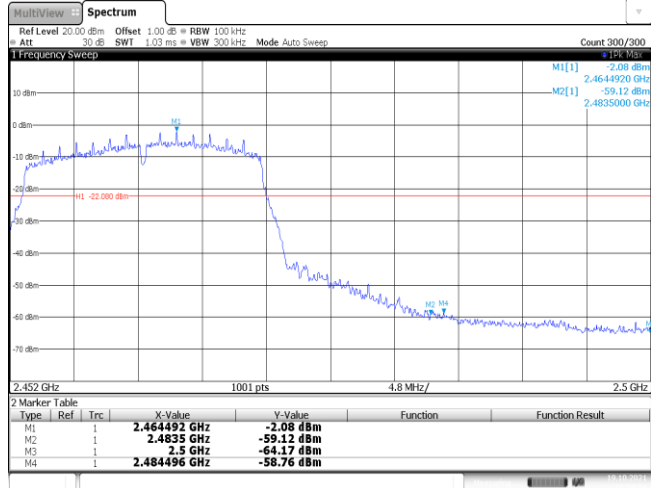


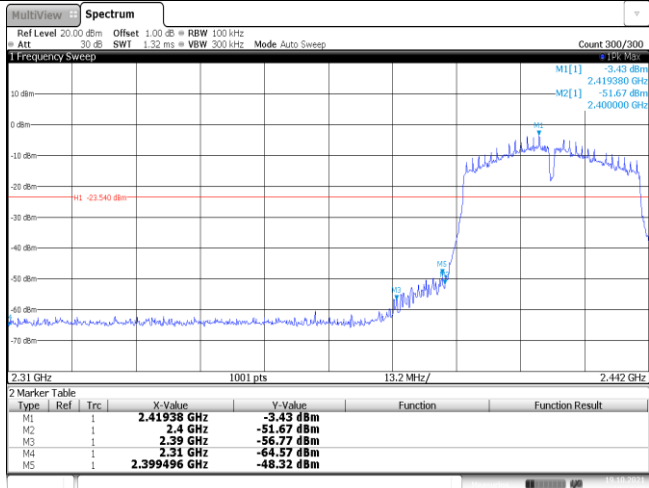
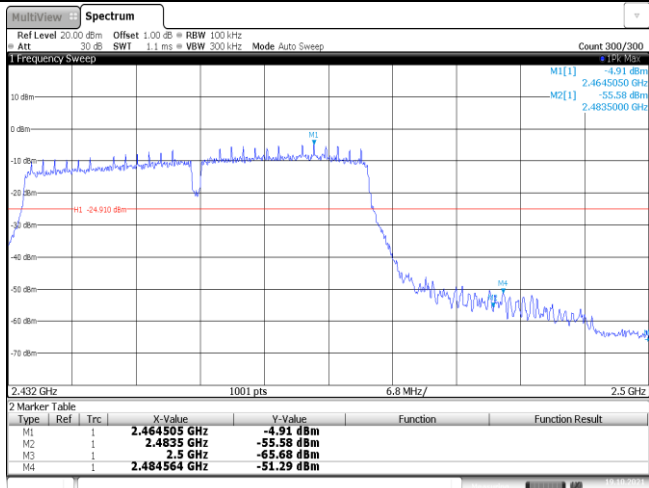


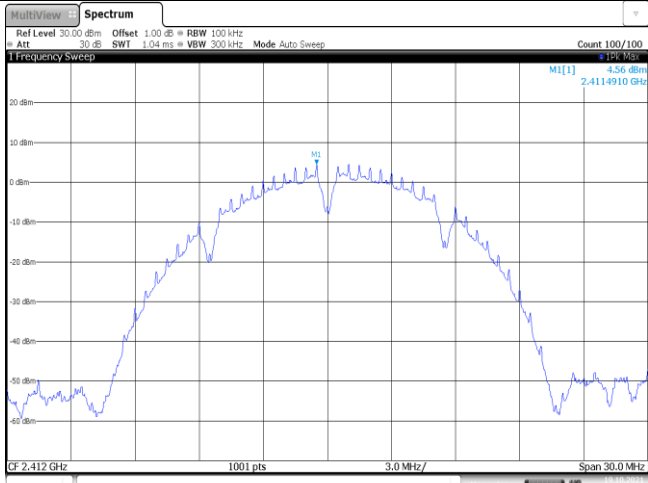
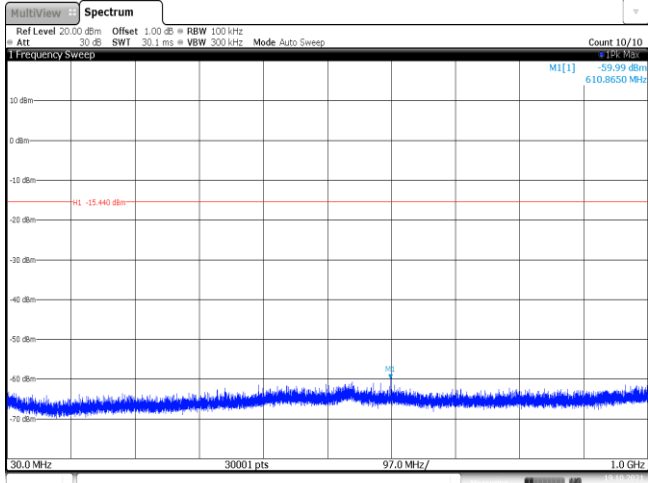
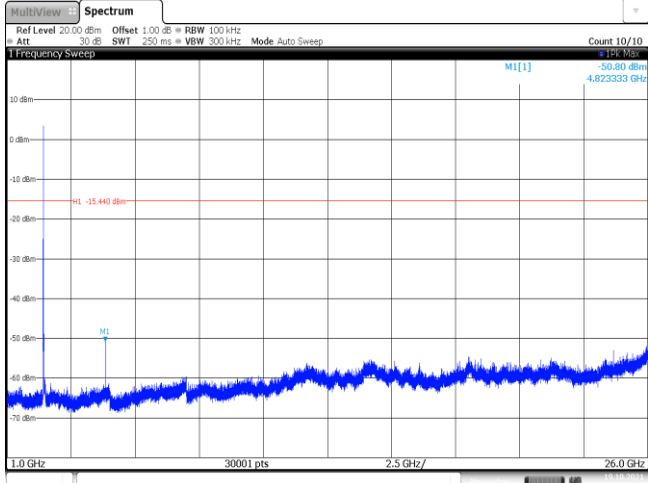
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep  2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz 2 Marker Table <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>2.41344 GHz</td><td>4.34 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.41 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.88 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.38 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39848 GHz</td><td>-52.15 dBm</td><td></td><td></td></tr></tbody></table> Date: 19/07/2021 10:02:49			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41344 GHz	4.34 dBm			M2	1		2.4 GHz	-53.41 dBm			M3	1		2.39 GHz	-63.88 dBm			M4	1		2.31 GHz	-63.38 dBm			M5	1		2.39848 GHz	-52.15 dBm		
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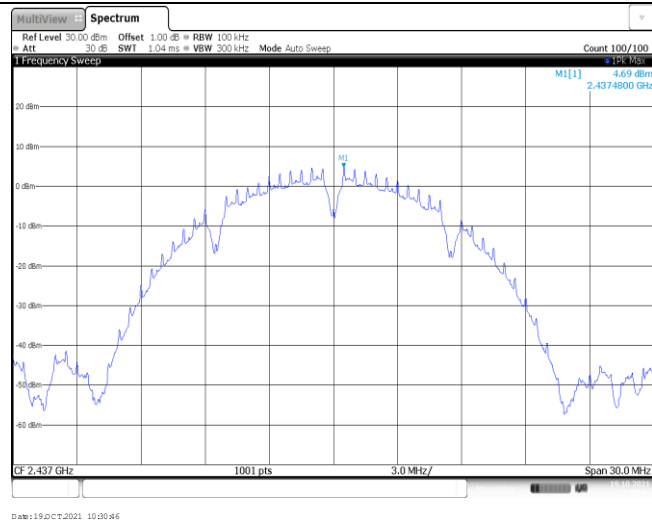
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CH01	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep M1[1] -2.32 dBm 2.414450 GHz M2[1] -52.18 dBm 2.400000 GHz M1 -22.20 dBm M3 -63.03 dBm 2.31 GHz M4 -50.89 dBm 2.399824 GHz 2 Marker Table <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>2.41445 GHz</td><td>-2.32 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.34 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-61.63 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.03 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399824 GHz</td><td>-50.89 dBm</td><td></td><td></td></tr></tbody></table> Date: 19 OCT 2021 10:37:27			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41445 GHz	-2.32 dBm			M2	1		2.4 GHz	-51.34 dBm			M3	1		2.39 GHz	-61.63 dBm			M4	1		2.31 GHz	-63.03 dBm			M5	1		2.399824 GHz	-50.89 dBm		
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CH11	MultViewSpectrum 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 1 Frequency Sweep  2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz 2 Marker Table <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>2.464492 GHz</td><td>-2.08 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.12 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.17 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484496 GHz</td><td>-58.76 dBm</td><td></td><td></td></tr></table> Date: 19 OCT 2021 10:50:54			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464492 GHz	-2.08 dBm			M2	1		2.4835 GHz	-59.12 dBm			M3	1		2.5 GHz	-64.17 dBm			M4	1		2.484496 GHz	-58.76 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.464492 GHz	-2.08 dBm																																									
M2	1		2.4835 GHz	-59.12 dBm																																									
M3	1		2.5 GHz	-64.17 dBm																																									
M4	1		2.484496 GHz	-58.76 dBm																																									

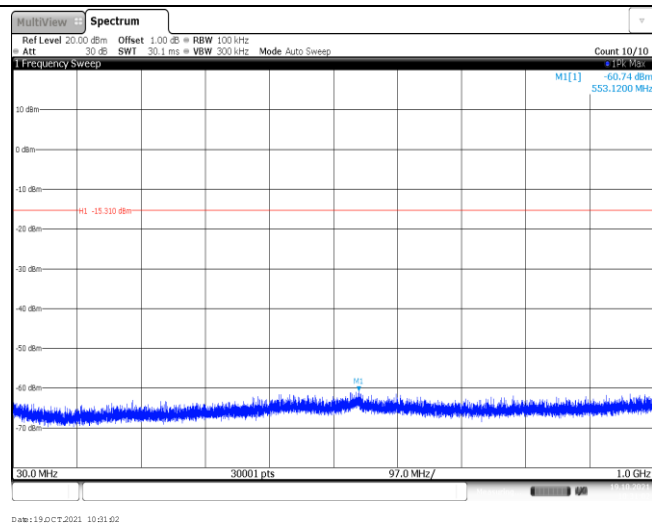
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.52 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep  2 Marker Table <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</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>2.41938 GHz</td><td>-3.43 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.67 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.77 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.57 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399496 GHz</td><td>-48.32 dBm</td><td></td><td></td></tr></tbody></table> Date: 19 OCT 2021 10:54:32			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41938 GHz	-3.43 dBm			M2	1		2.4 GHz	-51.67 dBm			M3	1		2.39 GHz	-56.77 dBm			M4	1		2.31 GHz	-64.57 dBm			M5	1		2.399496 GHz	-48.32 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M2	1		2.4 GHz	-51.67 dBm																																									
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M4	1		2.31 GHz	-64.57 dBm																																									
M5	1		2.399496 GHz	-48.32 dBm																																									
CH09	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep  2 Marker Table <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>2.464505 GHz</td><td>-4.91 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-55.58 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-65.68 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484564 GHz</td><td>-51.29 dBm</td><td></td><td></td></tr></tbody></table> Date: 19 OCT 2021 11:01:48			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464505 GHz	-4.91 dBm			M2	1		2.4835 GHz	-55.58 dBm			M3	1		2.5 GHz	-65.68 dBm			M4	1		2.484564 GHz	-51.29 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M4	1		2.484564 GHz	-51.29 dBm																																									

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

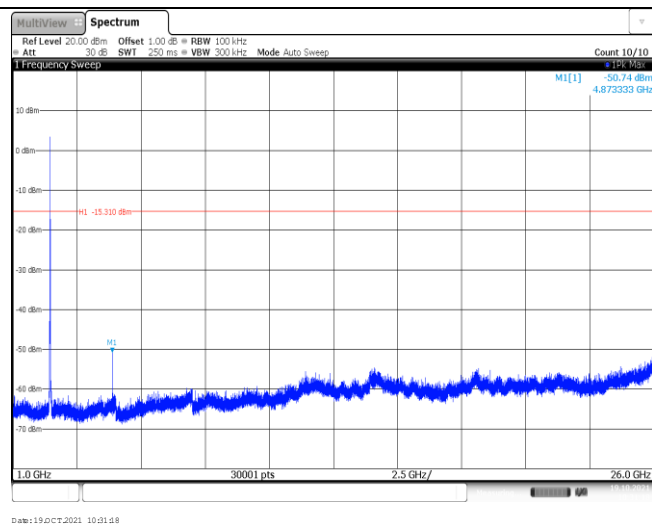
CH06
Reference level



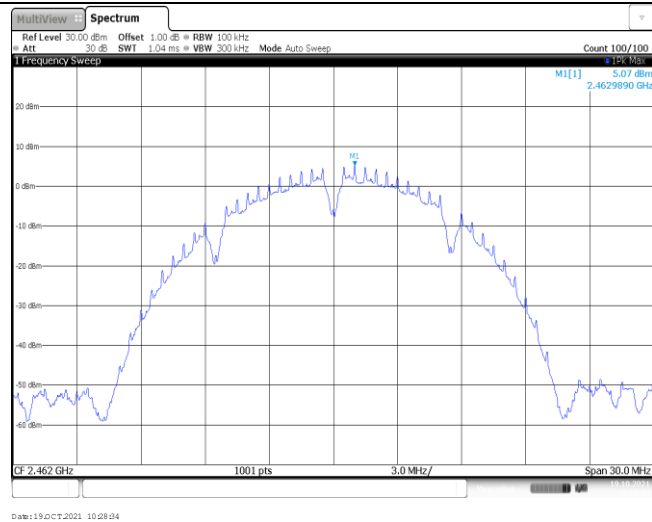
CH06
30MHz~1000MHz



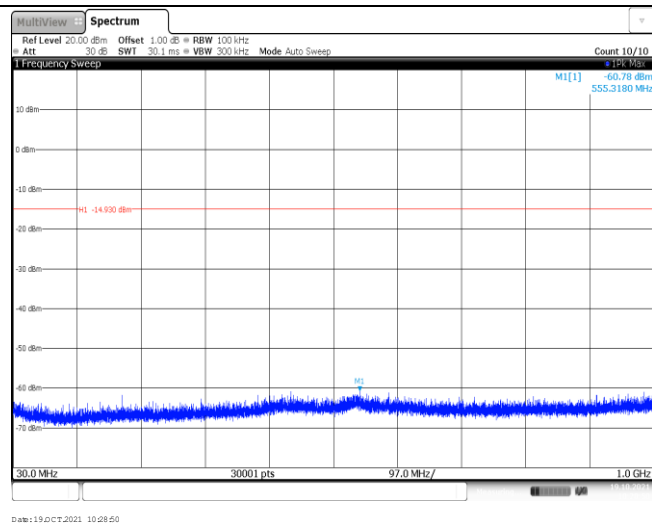
CH06
1GHz~26GHz



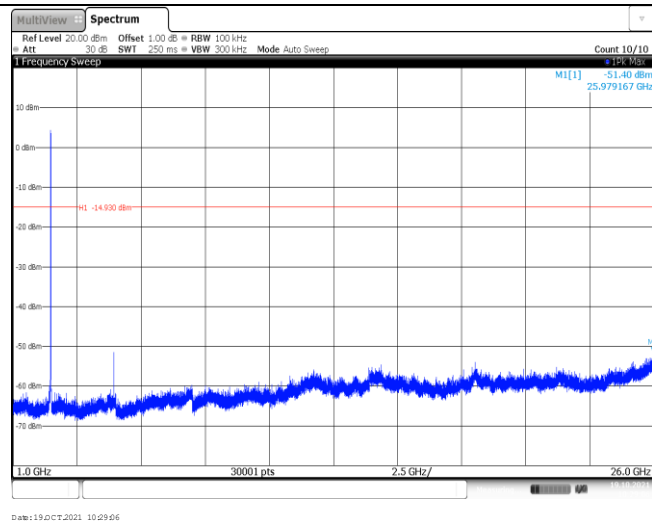
CH11
Reference level

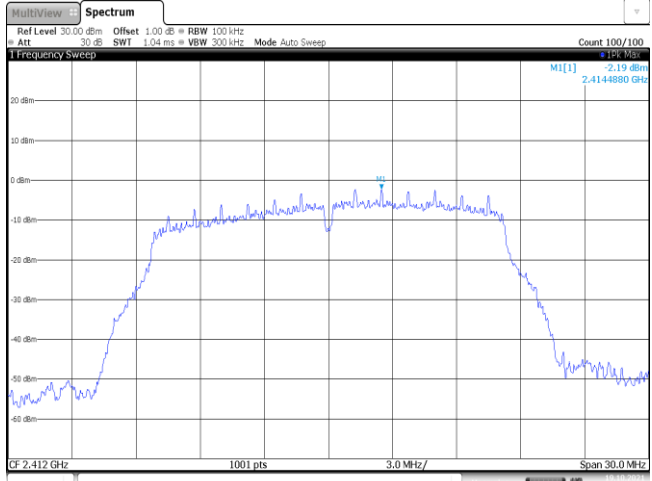
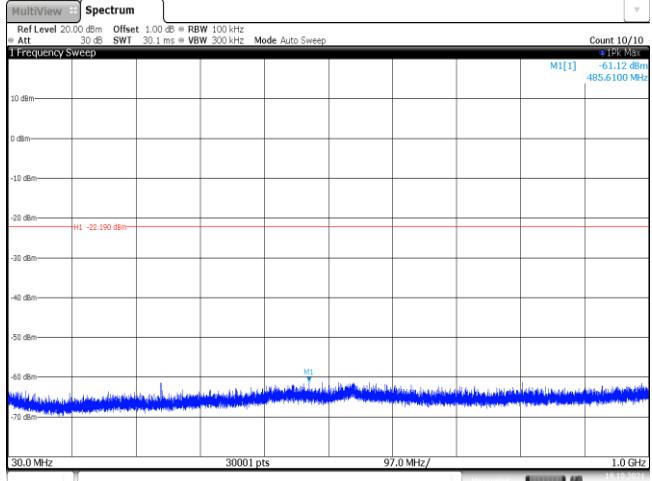
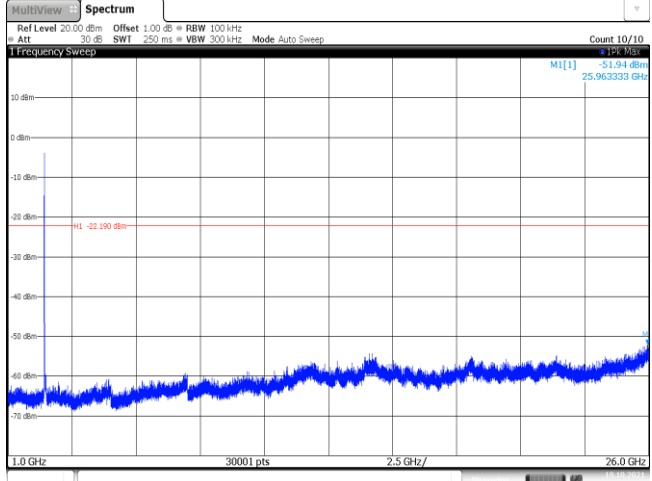


CH11
30MHz~1000MHz

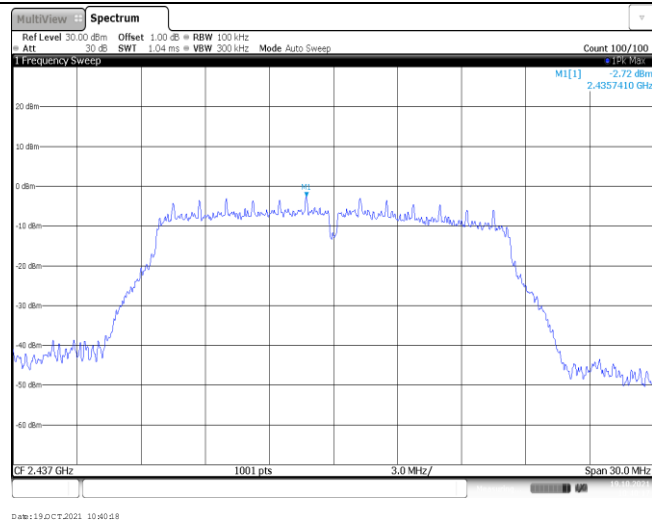


CH11
1GHz~26GHz

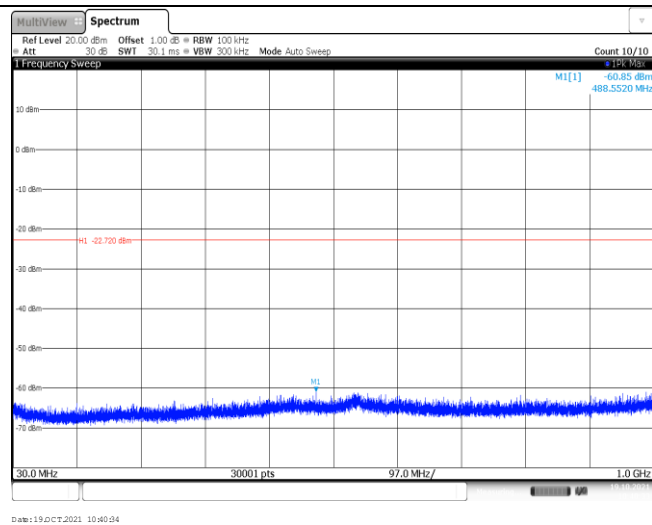


Test Item:	SE	Type:	802.11g
CH01 Reference level		 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 2.19 dBm 2.414880 GHz 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:19/OCT/2021 10:07:37	
CH01 30MHz~1000MHz		 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -61.12 dBm 485.6100 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:19/OCT/2021 10:07:53	
CH01 1GHz~26GHz		 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 MI[1] -51.94 dBm 25.963333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date:19/OCT/2021 10:08:09	

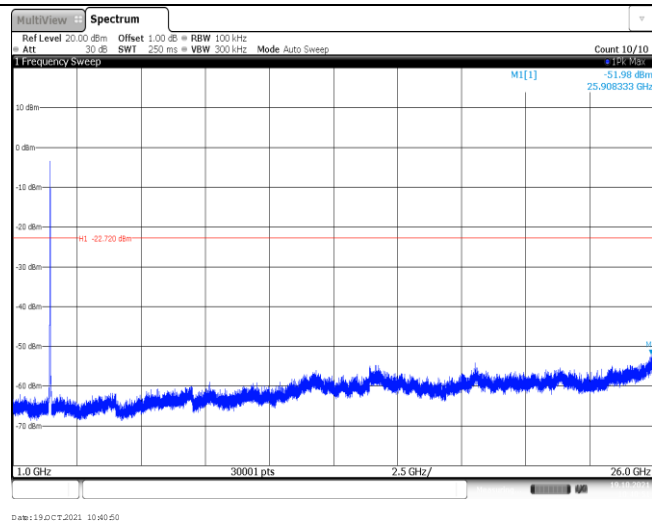
CH06
Reference level

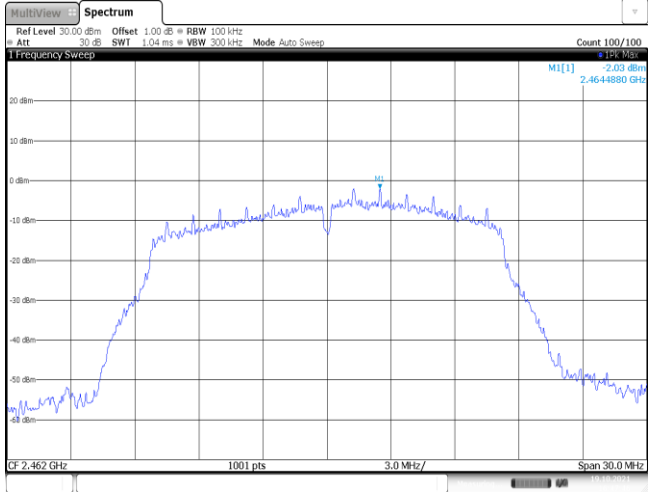
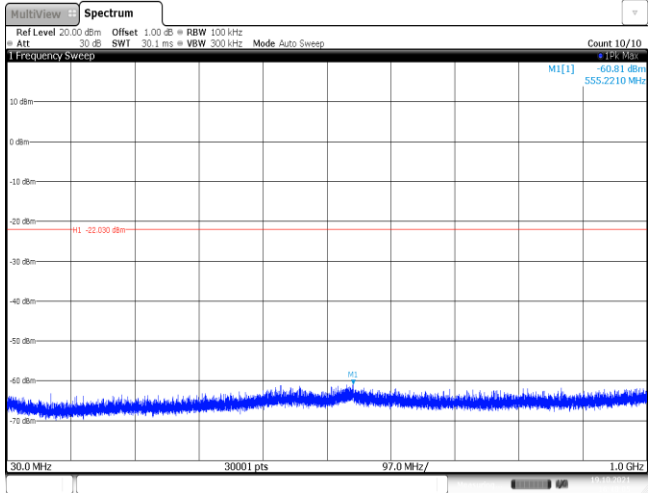
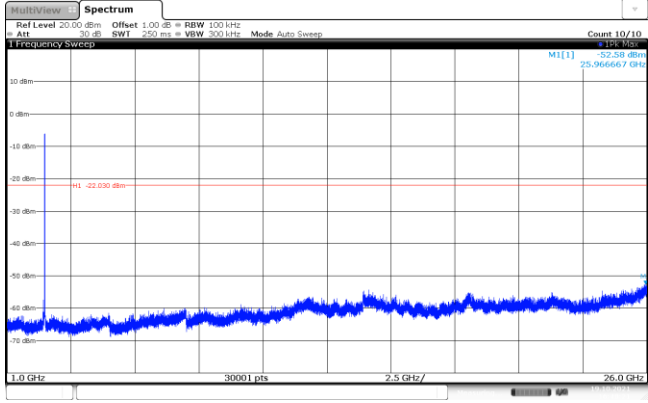


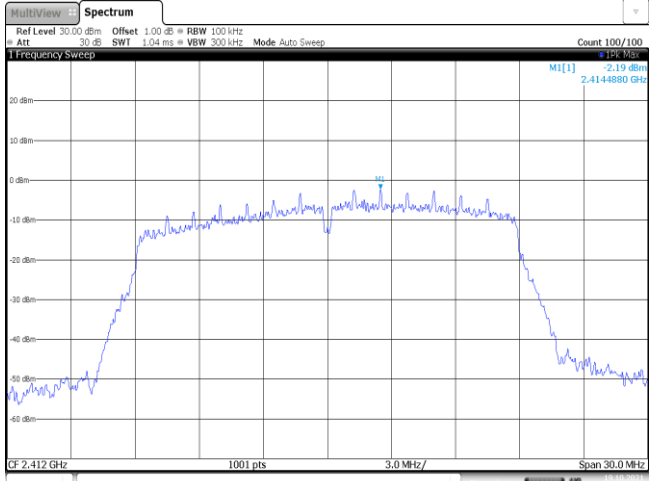
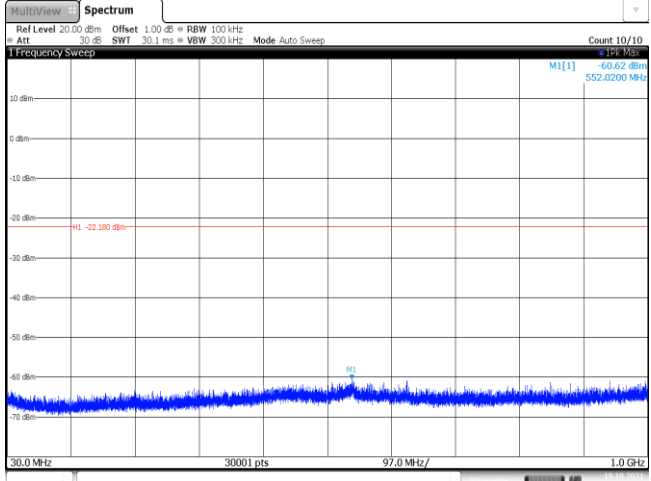
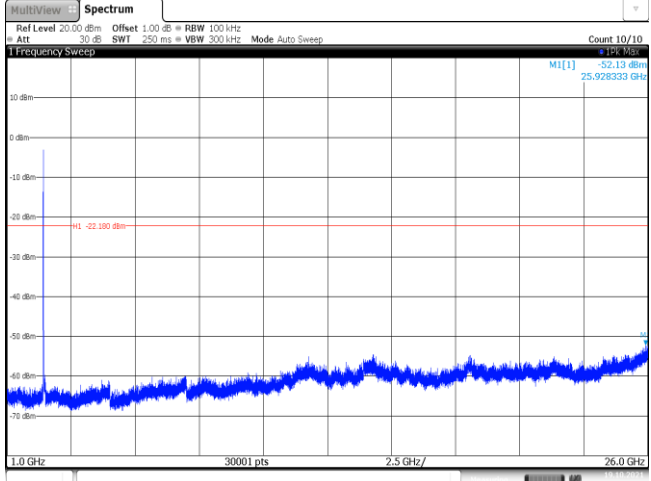
CH06
30MHz~1000MHz



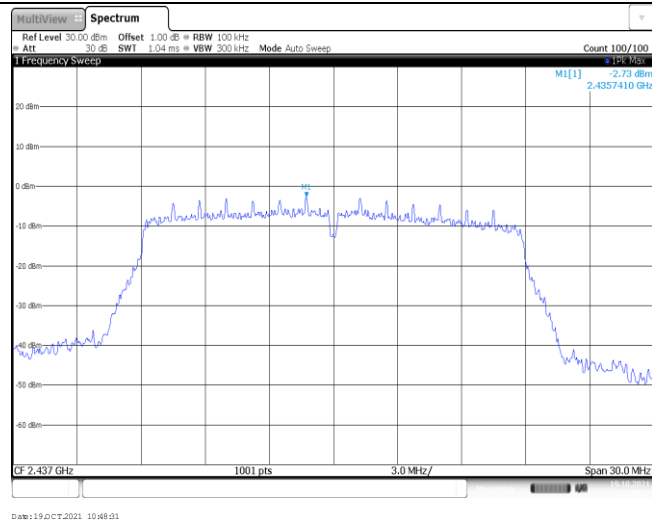
CH06
1GHz~26GHz



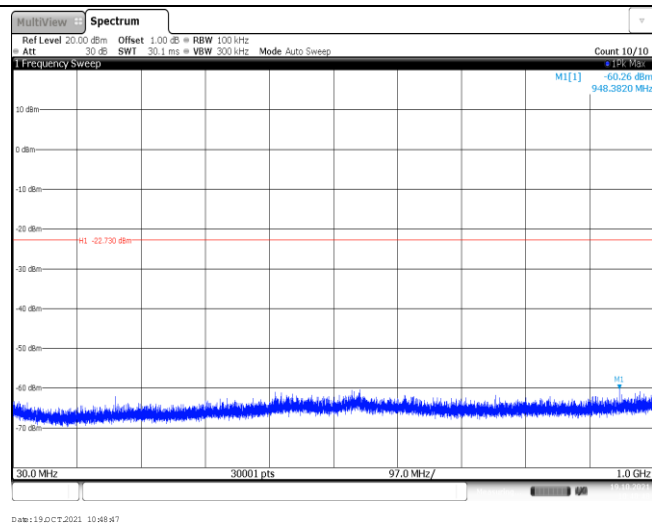
CH11 Reference level	 CH11 Reference level
CH11 30MHz~1000MHz	 CH11 30MHz~1000MHz
CH11 1GHz~26GHz	 CH11 1GHz~26GHz

Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level		 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 2.414880 GHz -2.19 dBm 2.414880 GHz 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:19/07/2021 10:46:01	
CH01 30MHz~1000MHz		 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] 552.6200 MHz -60.62 dBm 552.6200 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:19/07/2021 10:46:17	
CH01 1GHz~26GHz		 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] 25.926333 GHz -52.13 dBm 25.926333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date:19/07/2021 10:46:24	

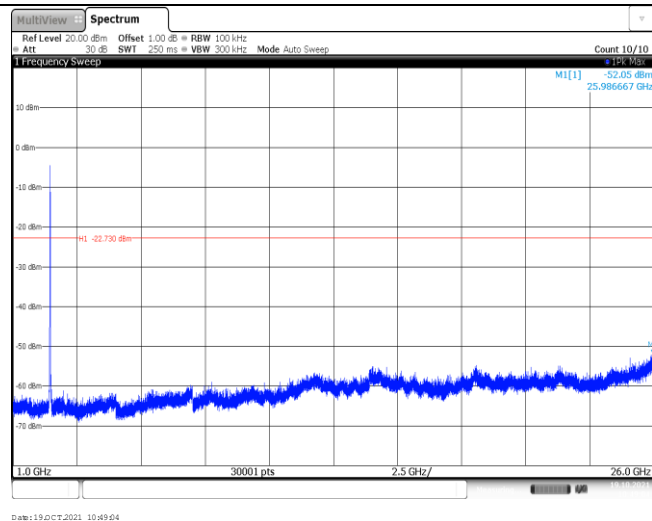
CH06
Reference level



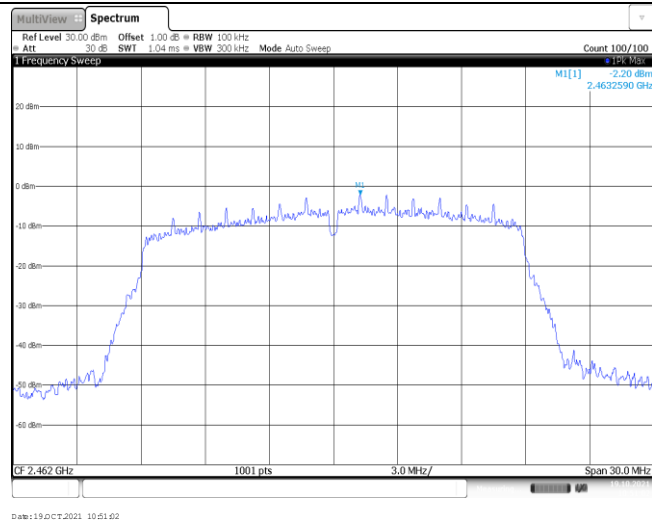
CH06
30MHz~1000MHz



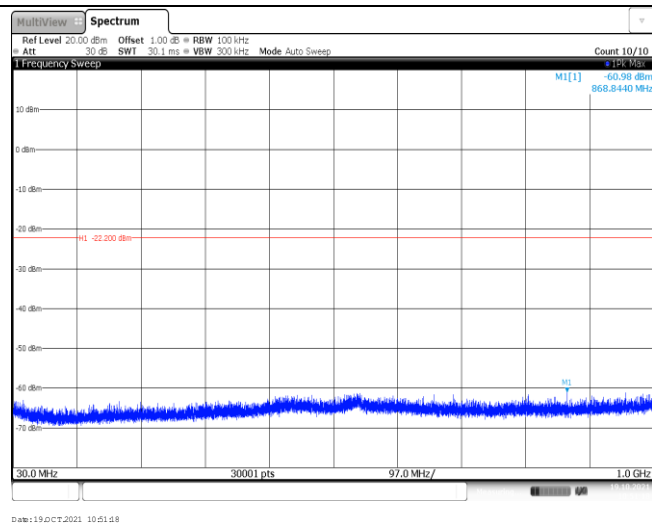
CH06
1GHz~26GHz



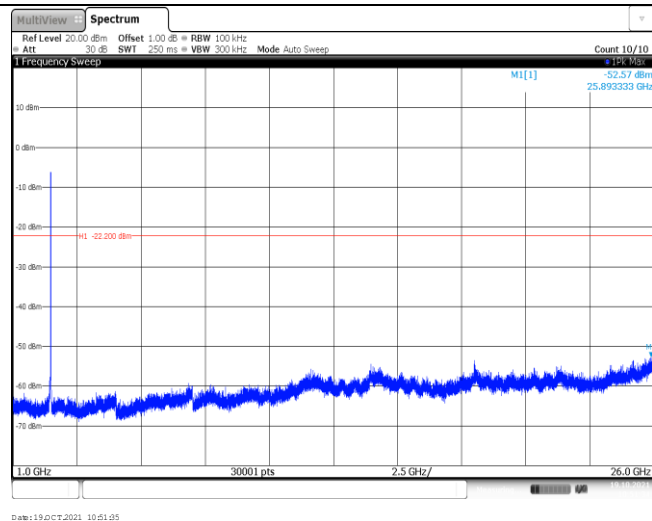
CH11
Reference level

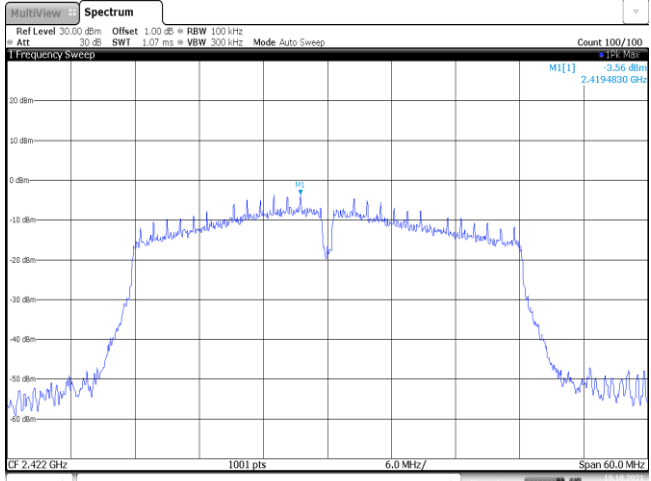
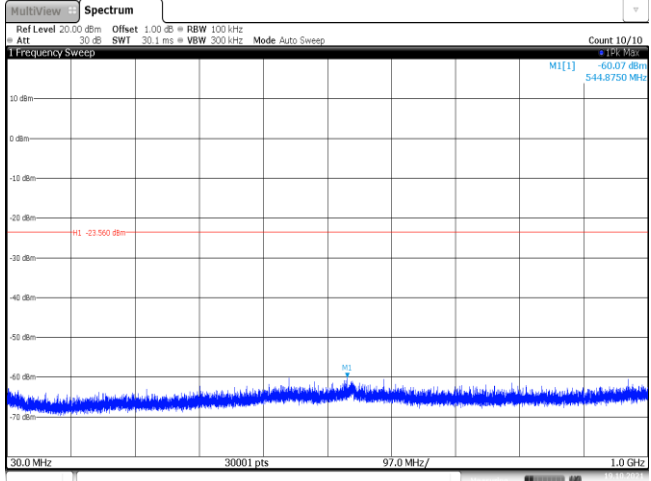
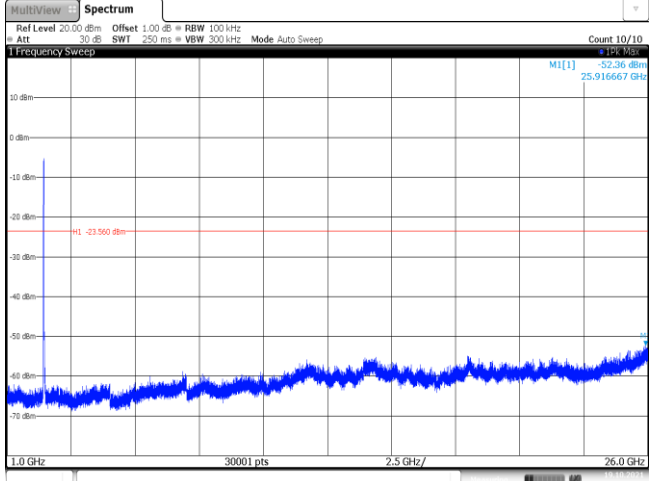


CH11
30MHz~1000MHz

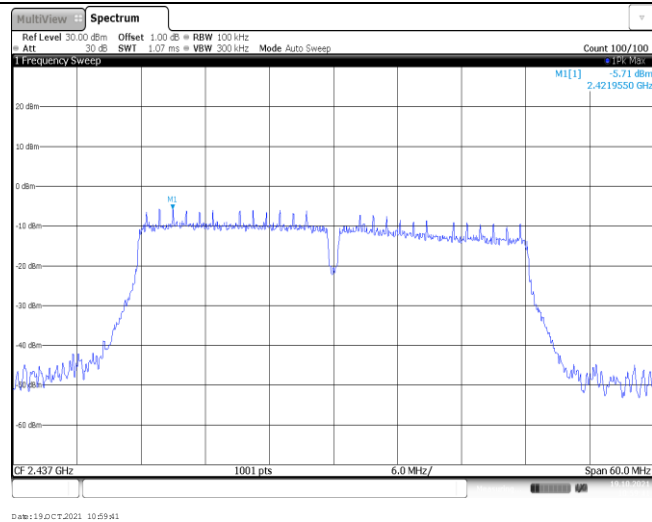


CH11
1GHz~26GHz

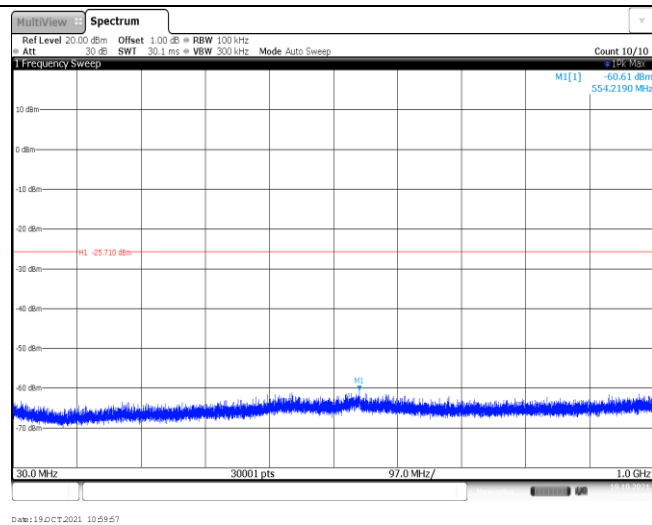


Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level		 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.07 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 3.56 dBm 2.4194830 GHz CF 2.422 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:19/OCT/2021 10:54:38	
CH03 30MHz~1000MHz		 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.07 dBm 544.8750 MHz H1 -23.500 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:19/OCT/2021 10:54:54	
CH03 1GHz~26GHz		 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -52.35 dBm 25.916667 GHz H1 -23.500 dBm 1.0 GHz 30001 pts 25.0 GHz/ 26.0 GHz Date:19/OCT/2021 10:55:11	

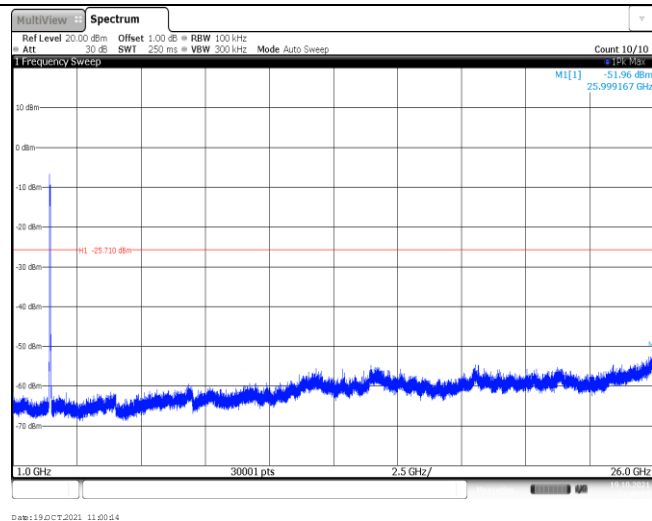
CH06
Reference level

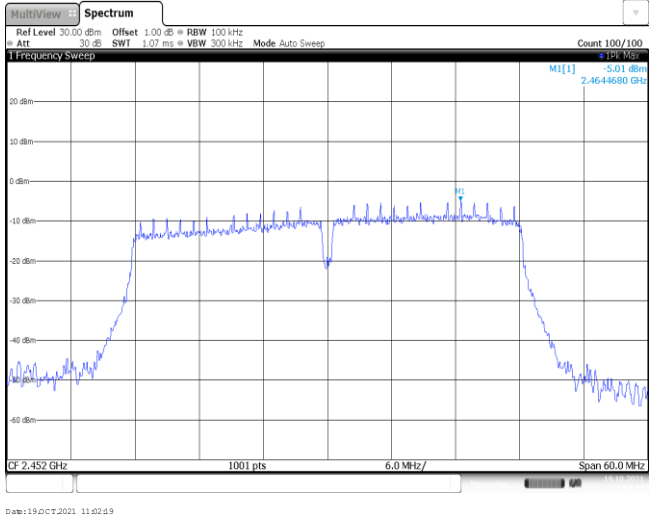
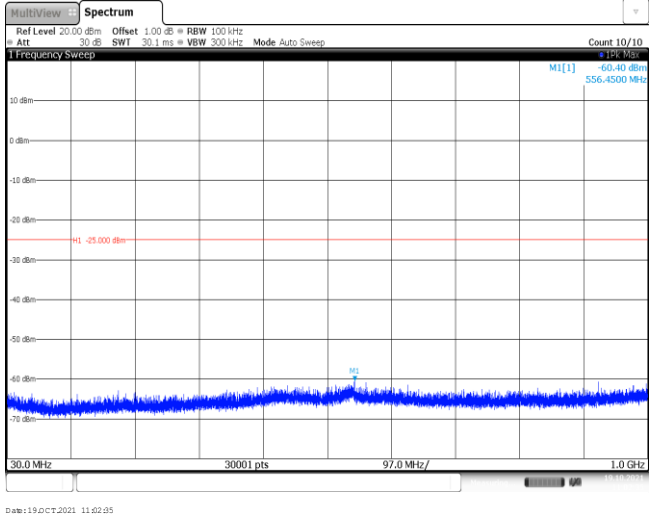
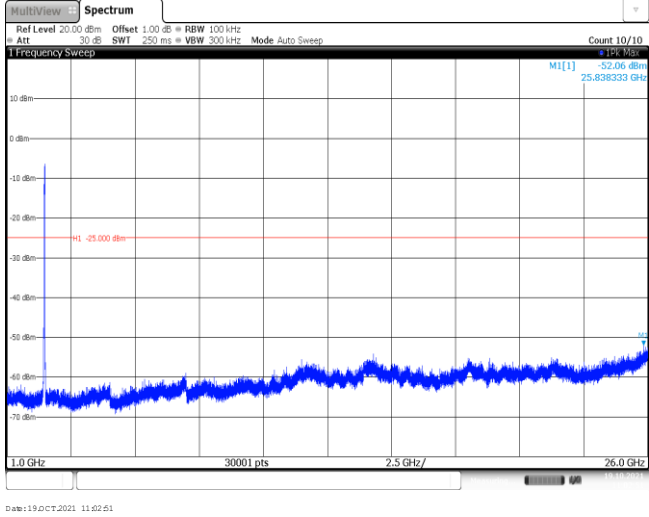


CH06
30MHz~1000MHz



CH06
1GHz~26GHz



CH09 Reference level	
CH09 30MHz~1000MHz	
CH09 1GHz~26GHz	

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