

APPENDIX REPORT

Project No.	SHT2005010401EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20050104002	Model No.	A2169
Start test date	2020/5/29	Finish date	2020/5/29
Temperature	25°C	Humidity	50%
Test Engineer	JiongSheng.Feng	Auditor	<i>William.wang</i>

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

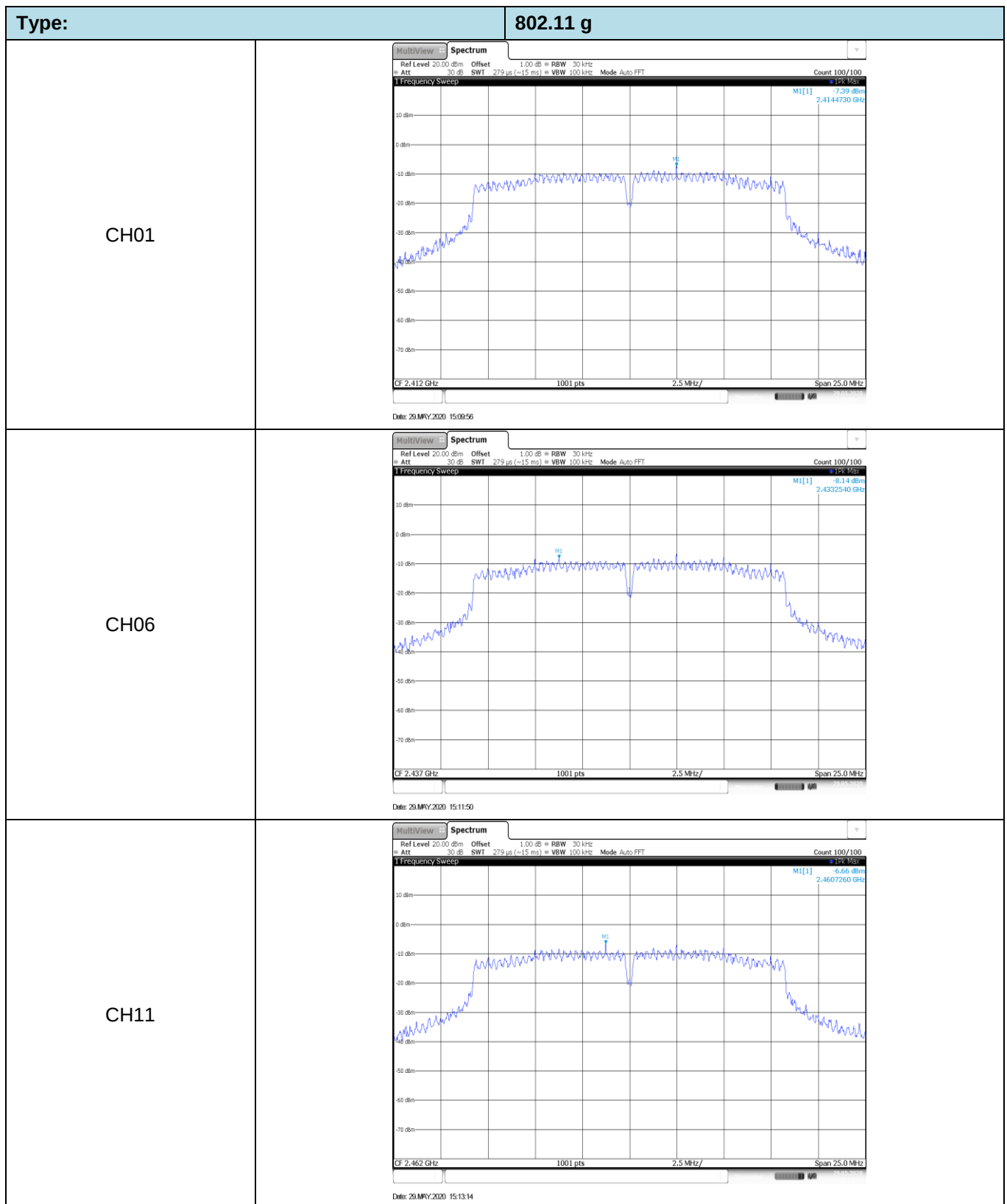
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.19	14.43	≤30.00	Pass
	06	16.46	14.56		
	11	16.89	14.64		
802.11g	01	16.25	13.96	≤30.00	Pass
	06	16.57	14.02		
	11	16.88	14.14		
802.11n(HT20)	01	16.14	13.72	≤30.00	Pass
	06	16.45	13.96		
	11	16.76	14.04		
802.11n(HT40)	03	16.24	13.69	≤30.00	Pass
	06	16.41	13.73		
	09	16.64	13.84		

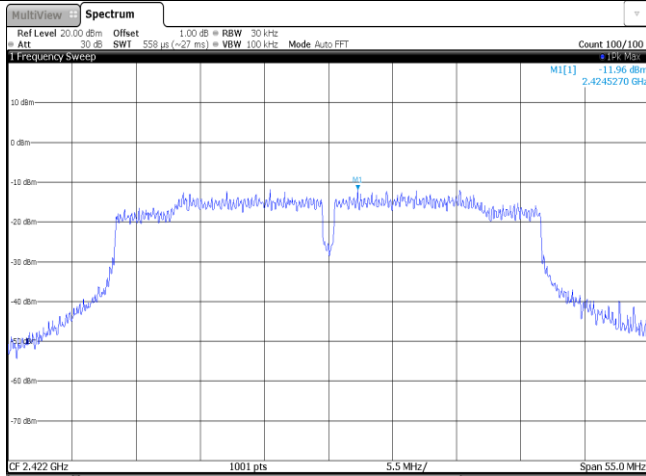
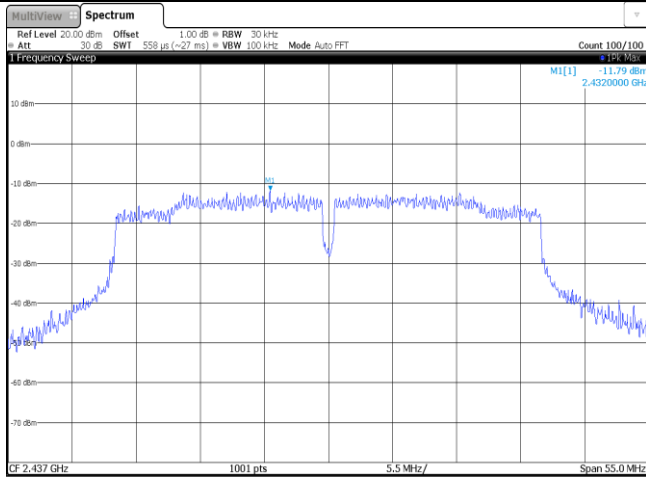
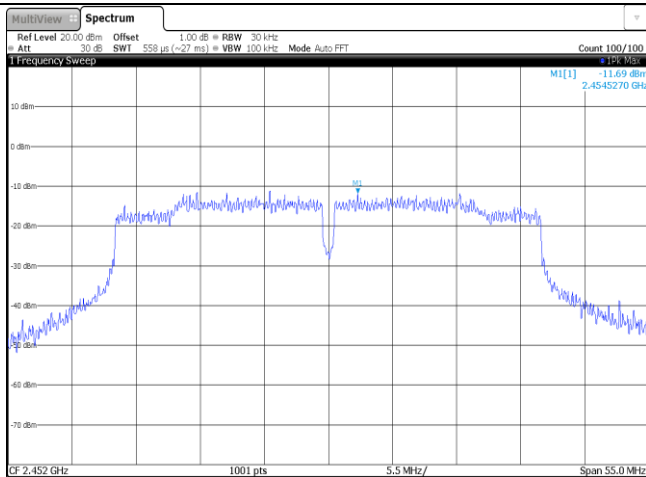
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-0.59	≤8.00	Pass
	06	-0.23		
	11	-0.18		
802.11g	01	-7.39	≤8.00	Pass
	06	-8.14		
	11	-6.66		
802.11n(HT20)	01	-8.76	≤8.00	Pass
	06	-7.06		
	11	-7.82		
802.11n(HT40)	03	-11.96	≤8.00	Pass
	06	-11.79		
	09	-11.69		

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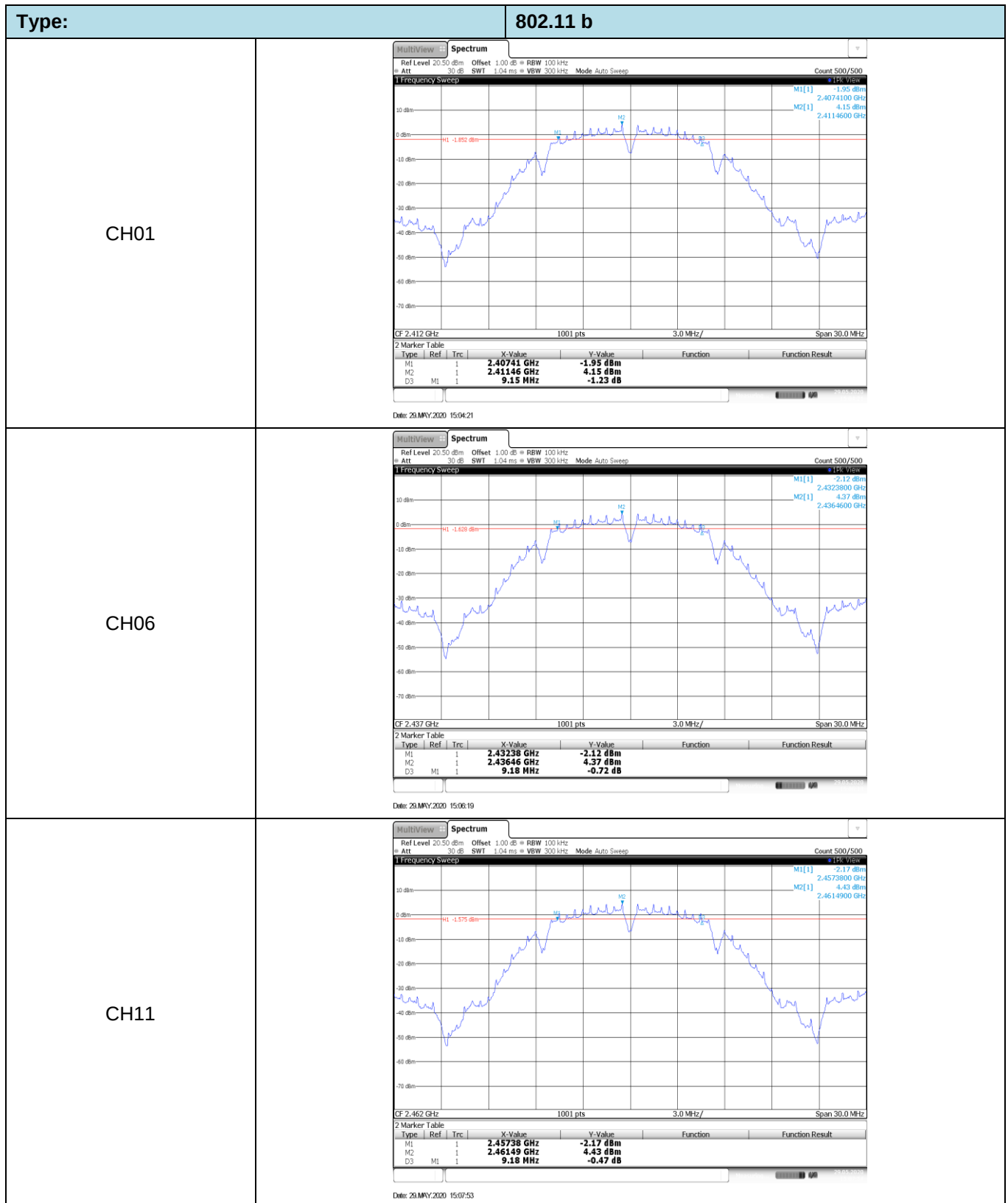


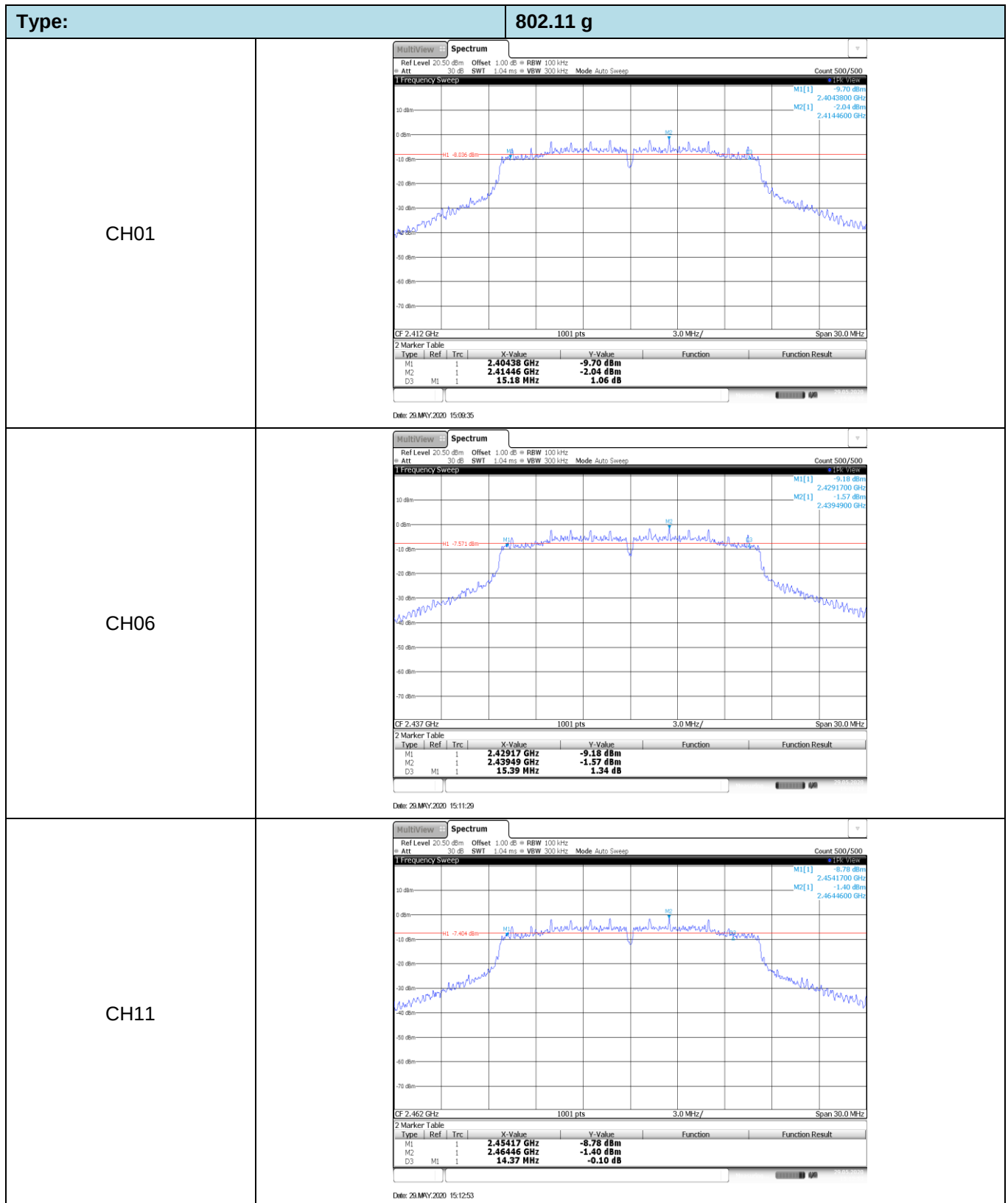
Type:		802.11n(HT20)
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 279 μs (~1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -8.76 dBm 2.4132740 GHz 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 29.MAY.2020 15:15:01	
CH06	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 279 μs (~1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -7.06 dBm 2.4357260 GHz 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 29.MAY.2020 15:17:36	
CH11	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 279 μs (~1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -7.82 dBm 2.4569550 GHz 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 29.MAY.2020 15:20:16	

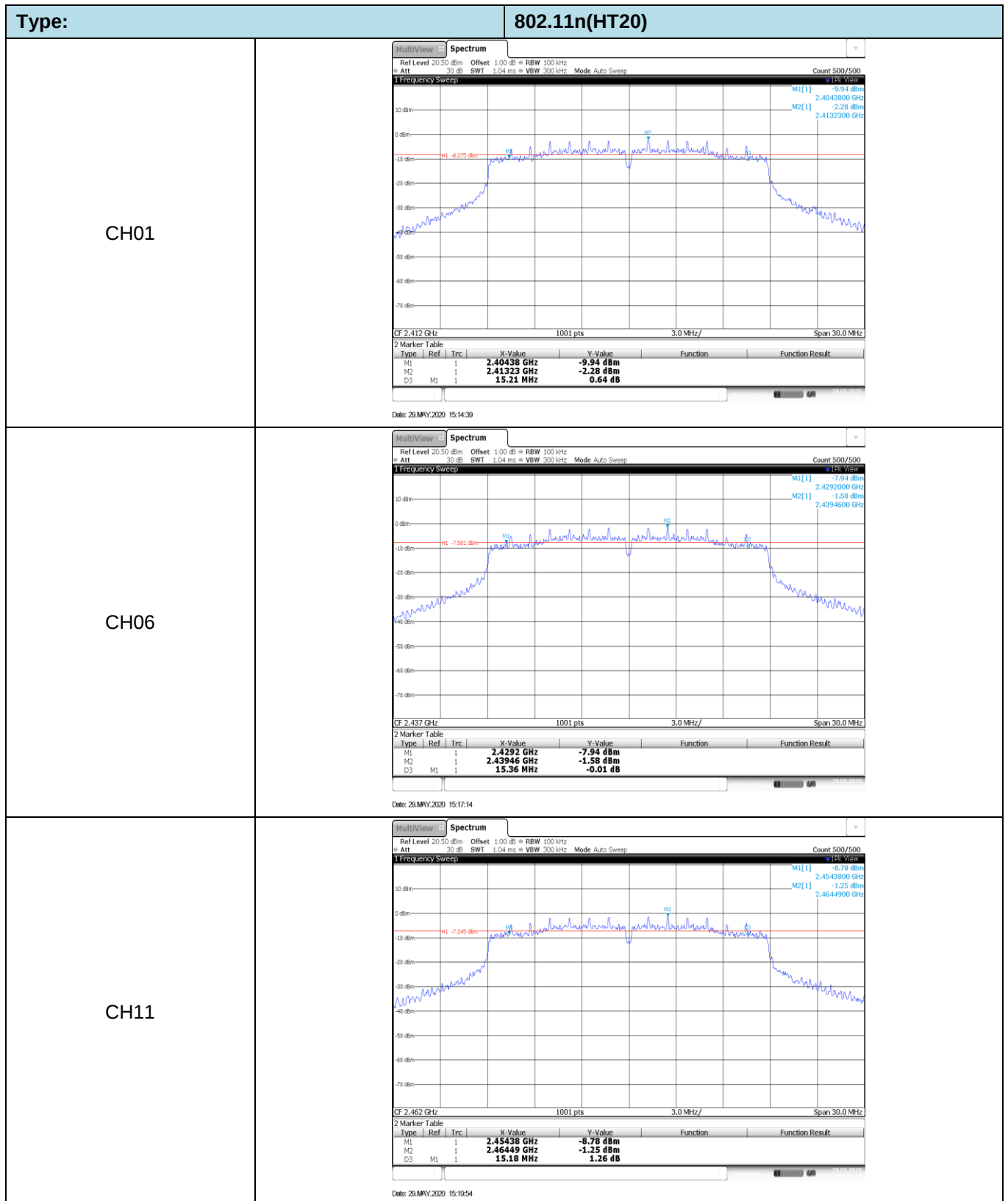
Type:		802.11n(HT40)
CH03	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 μs (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -11.96 dBm 2.4245270 GHz Date: 29.MAY.2020 15:22:03 	
CH06	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 μs (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -11.79 dBm 2.4320000 GHz Date: 29.MAY.2020 15:23:51 	
CH09	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 μs (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -11.69 dBm 2.4545270 GHz Date: 29.MAY.2020 15:29:01 	

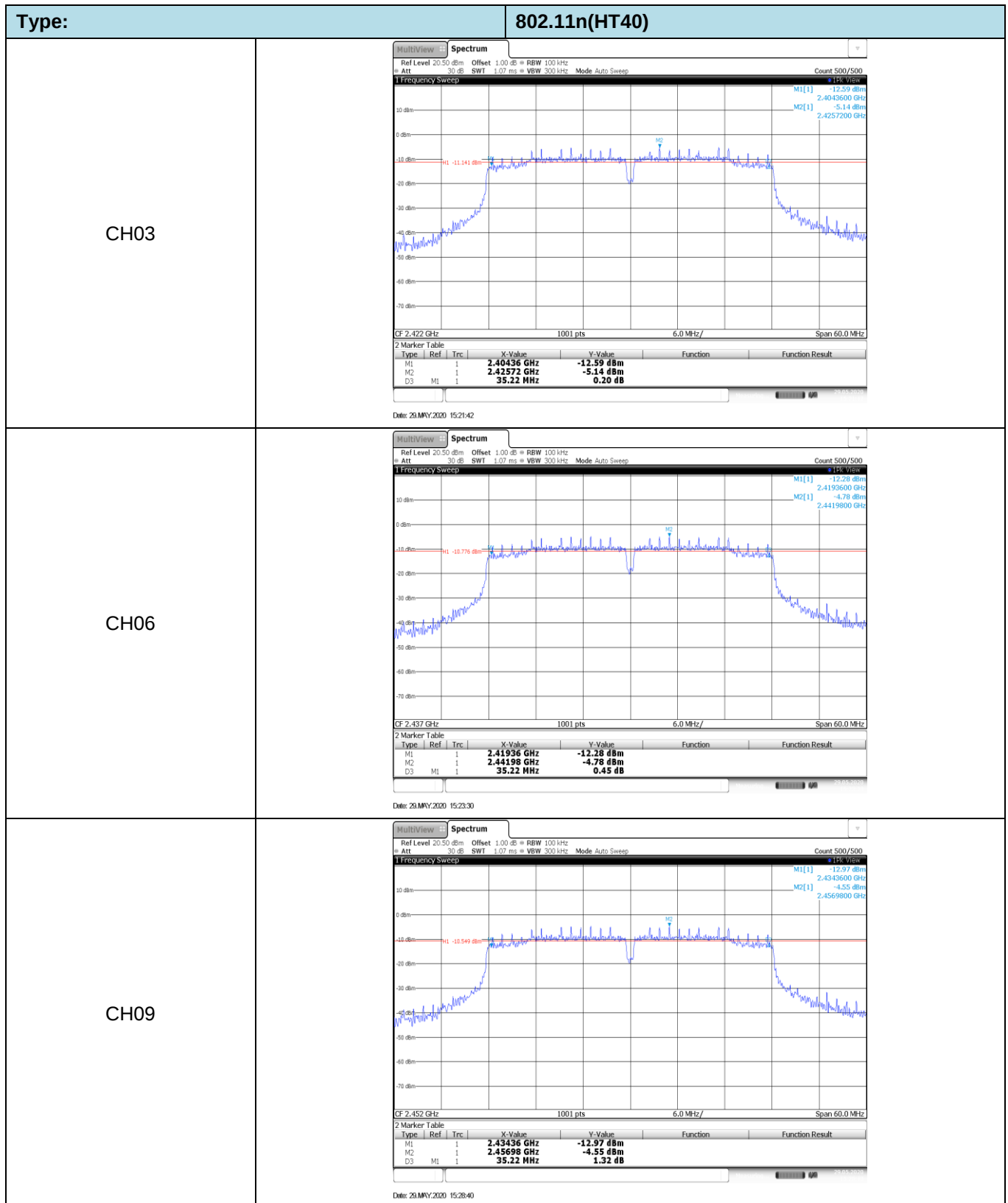
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.15	≥0.5	Pass
	06	9.18		
	11	9.18		
802.11g	01	15.18	≥0.5	Pass
	06	15.39		
	11	14.37		
802.11n(HT20)	01	15.21	≥0.5	Pass
	06	15.36		
	11	15.18		
802.11n(HT40)	03	35.22	≥0.5	Pass
	06	35.22		
	09	35.22		



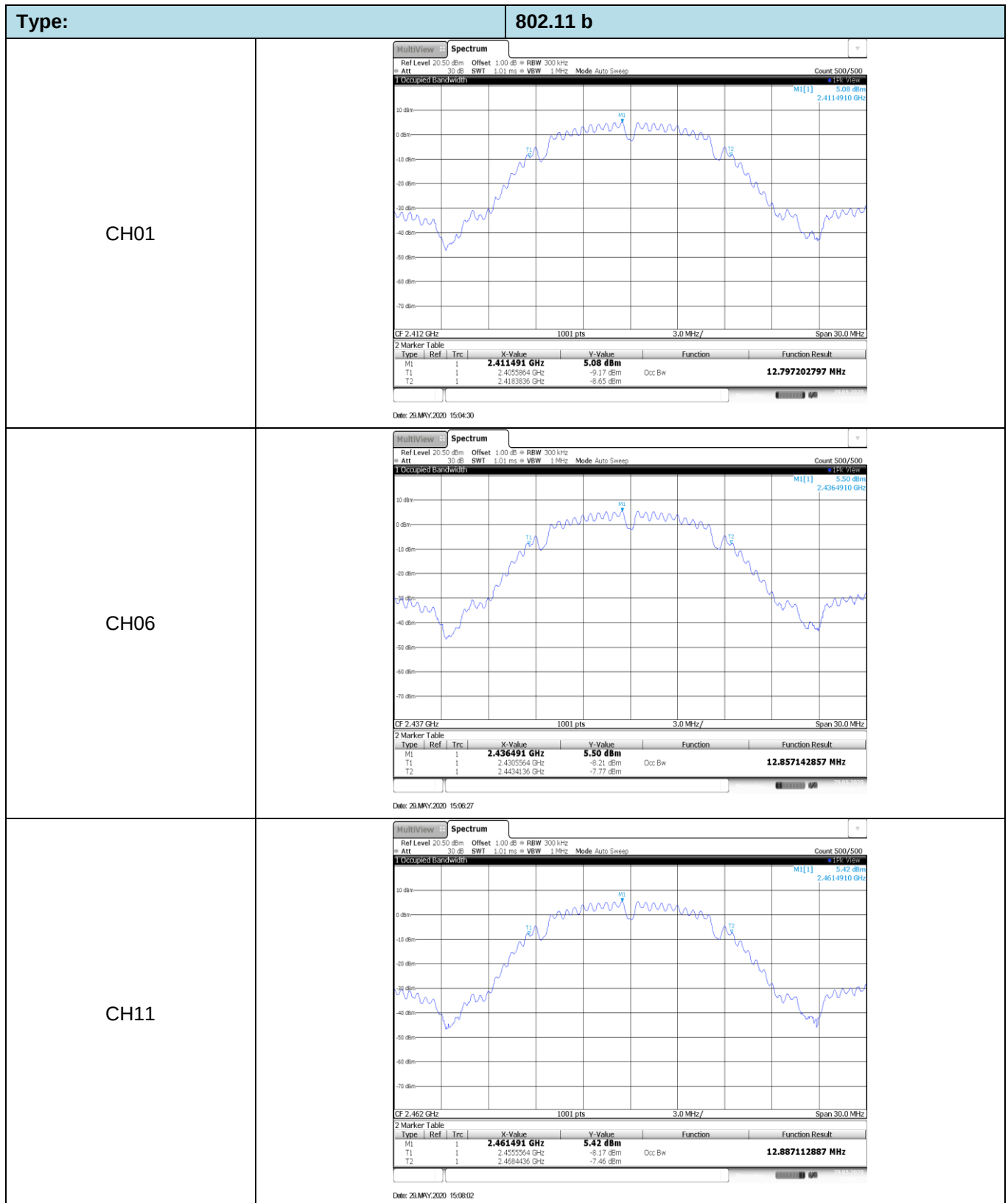


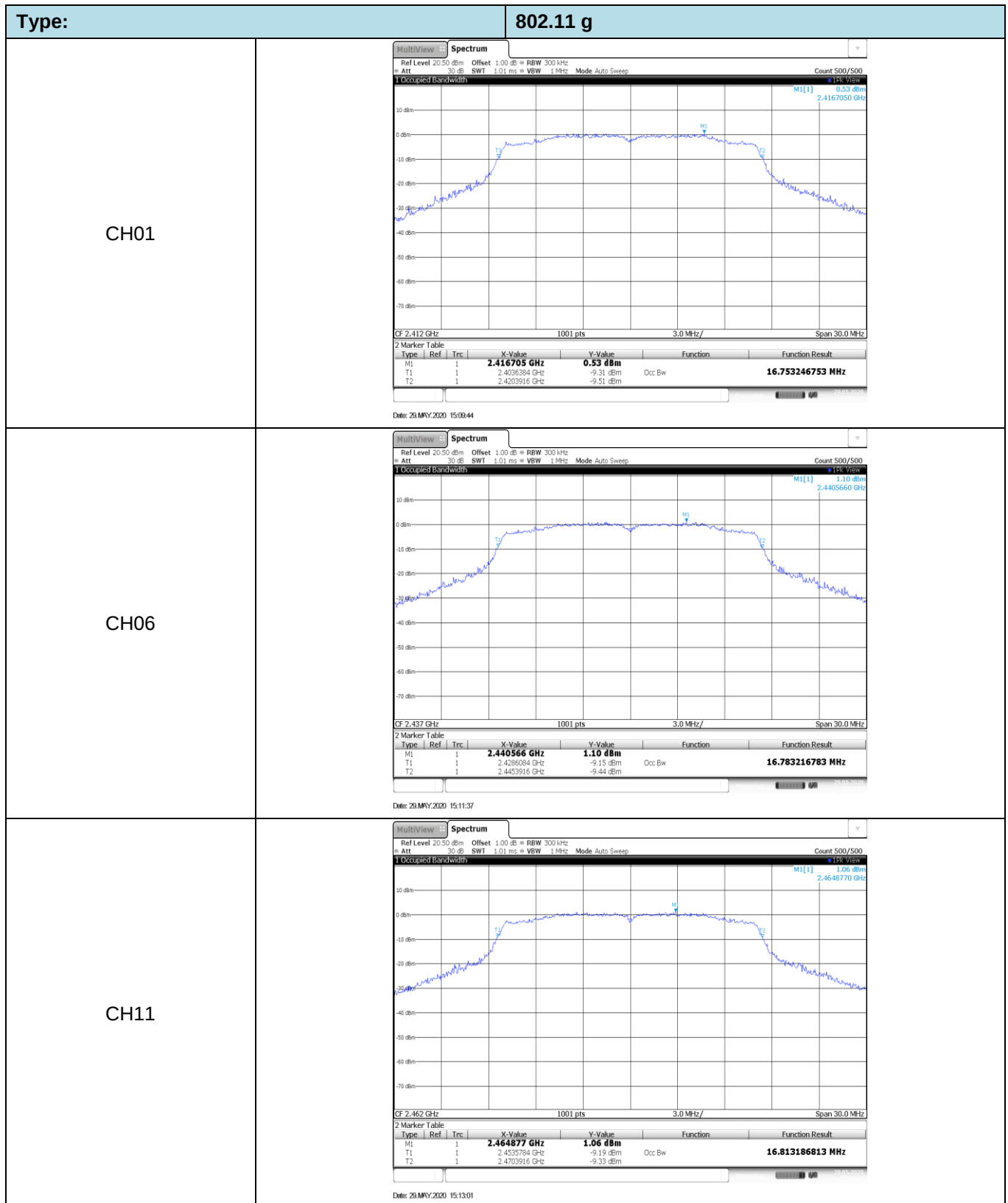




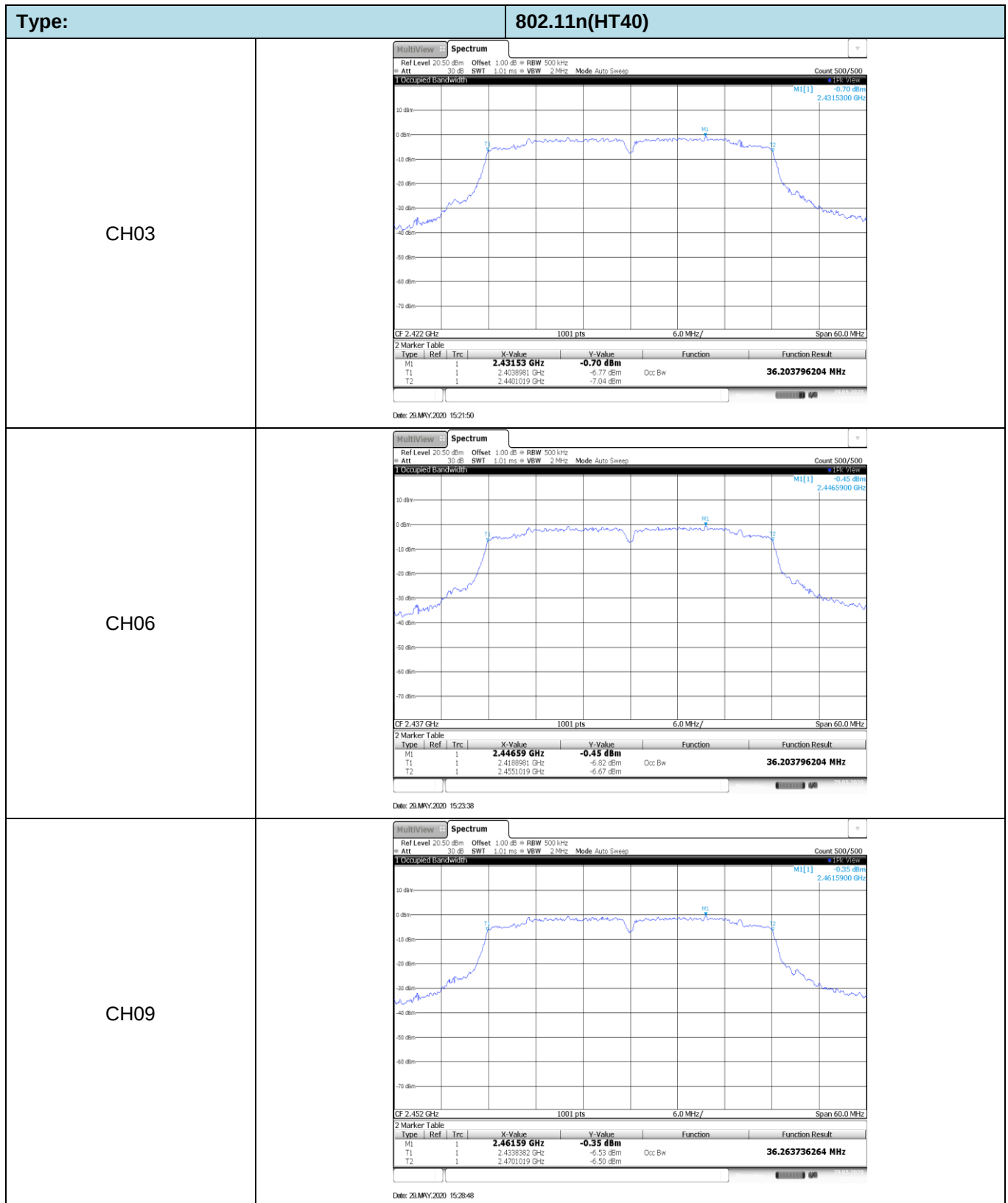
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.80	-	Pass
	06	12.86		
	11	12.89		
802.11g	01	16.75	-	Pass
	06	16.78		
	11	16.81		
802.11n(HT20)	01	17.86	-	Pass
	06	17.92		
	11	17.92		
802.11n(HT40)	03	36.20	-	Pass
	06	36.20		
	09	36.26		





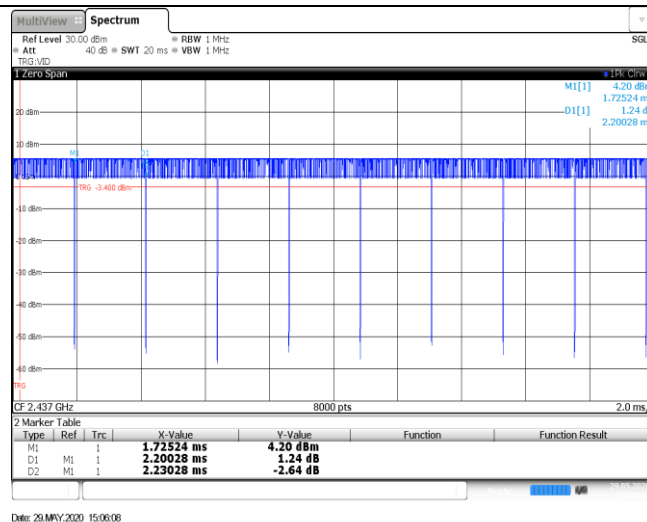
Type:		802.11n(HT20)																												
CH01	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Occupied Bandwidth M1[1] 0.43 dBm 2.4091230 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table><tr><th>Type</th><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>2.409123 GHz</td><td>0.43 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.403099 GHz</td><td>-9.15 dBm</td><td>Occ Bw</td><td>17.862137862 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.420961 GHz</td><td>-9.28 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 15:14:48		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.409123 GHz	0.43 dBm			T1	1		2.403099 GHz	-9.15 dBm	Occ Bw	17.862137862 MHz	T2	1		2.420961 GHz	-9.28 dBm		
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CH06	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Occupied Bandwidth M1[1] 0.90 dBm 2.4392780 GHz CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <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>2.439278 GHz</td><td>0.90 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.428039 GHz</td><td>-9.02 dBm</td><td>Occ Bw</td><td>17.922077922 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.445961 GHz</td><td>-9.13 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 15:17:23		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.439278 GHz	0.90 dBm			T1	1		2.428039 GHz	-9.02 dBm	Occ Bw	17.922077922 MHz	T2	1		2.445961 GHz	-9.13 dBm		
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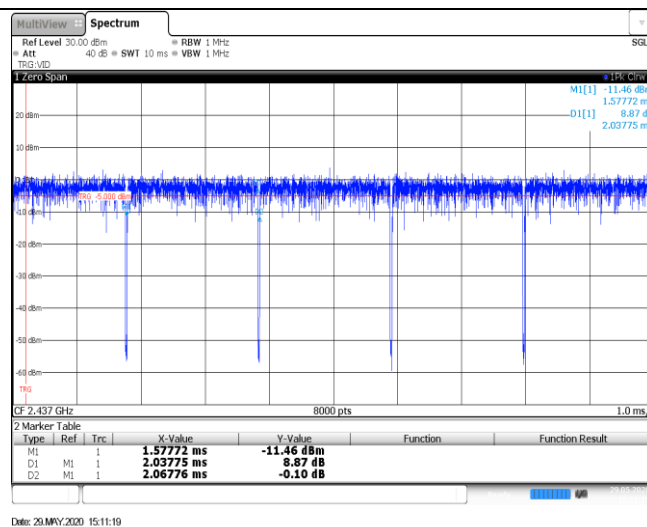
Appendix E: Duty Cycle

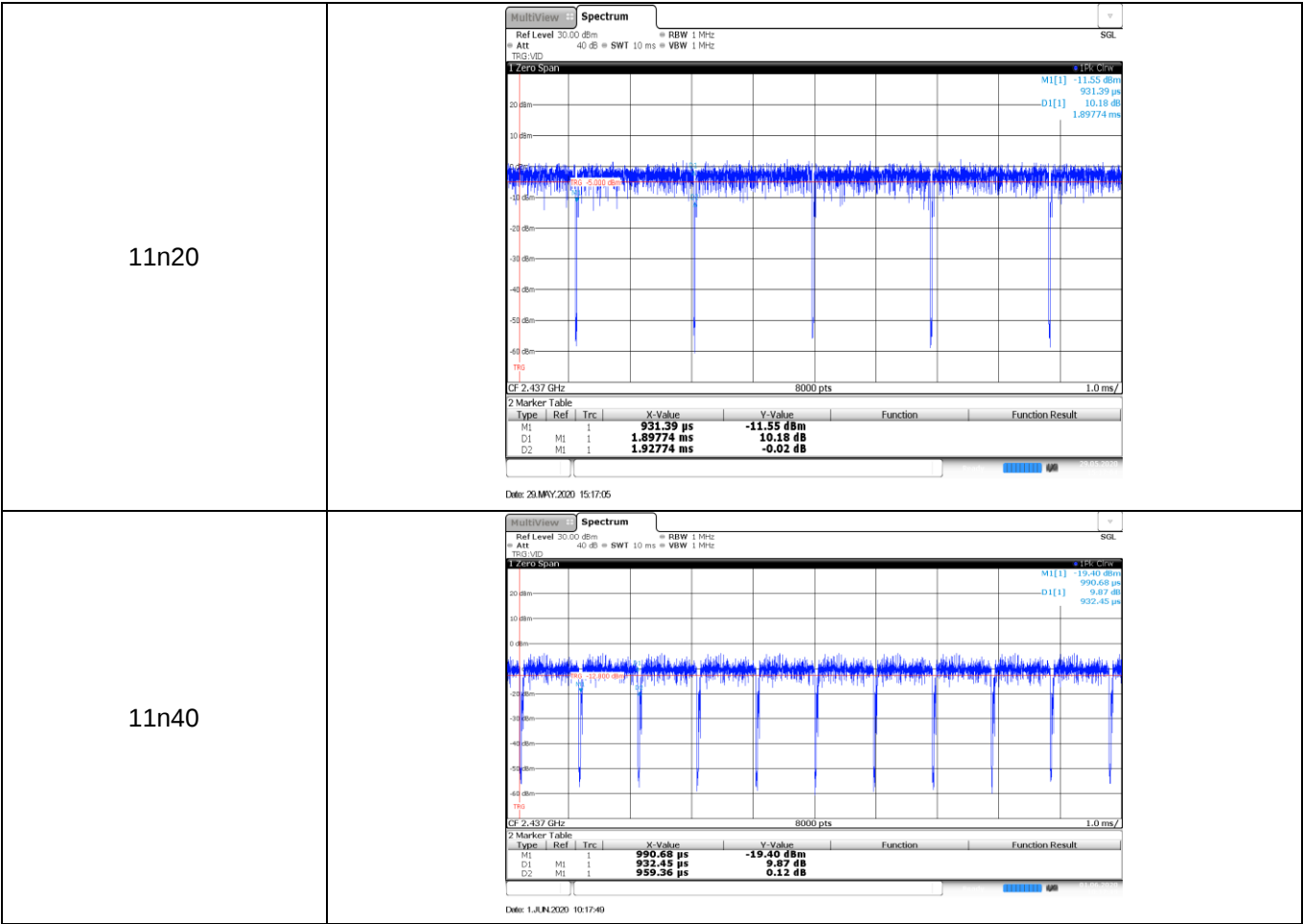
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	2.20	2.23	89.7%	0.5
11g	2437	2.04	2.07	98.6%	0.5
11n20	2437	1.90	1.93	98.4%	0.5
11n40	2437	0.93	0.96	96.9%	1.1

11b



11g



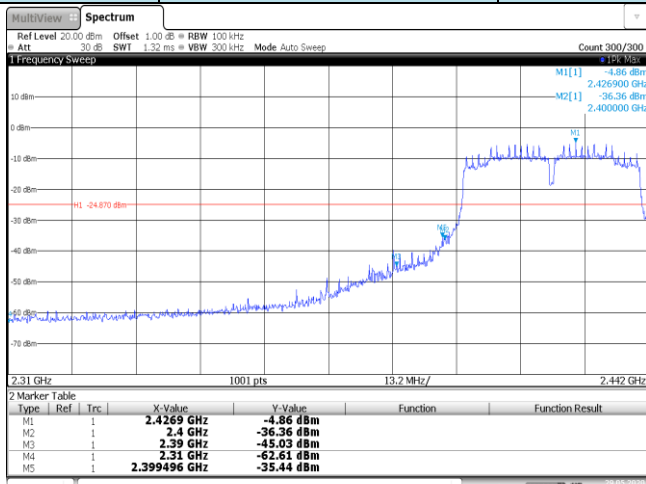
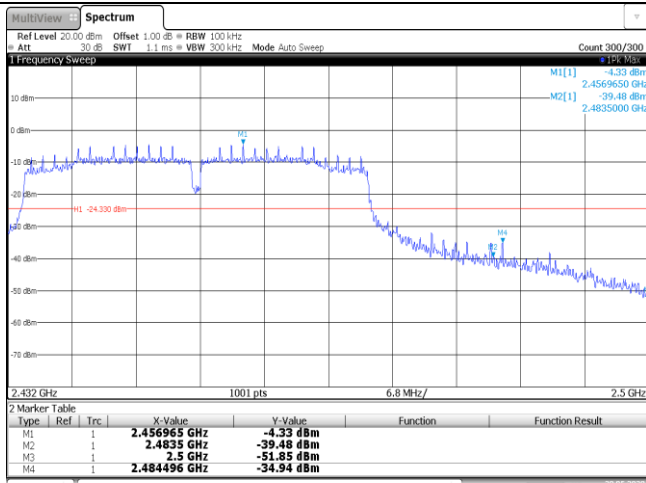


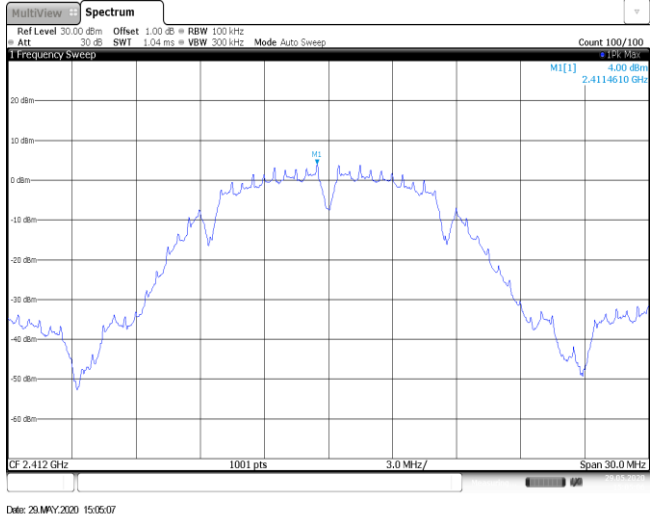
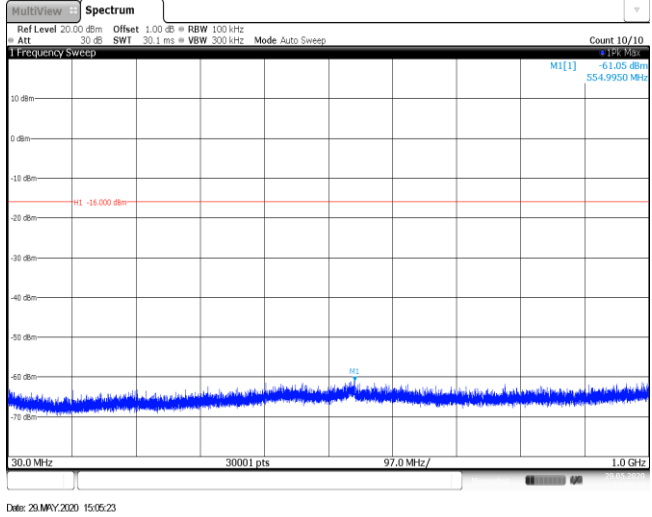
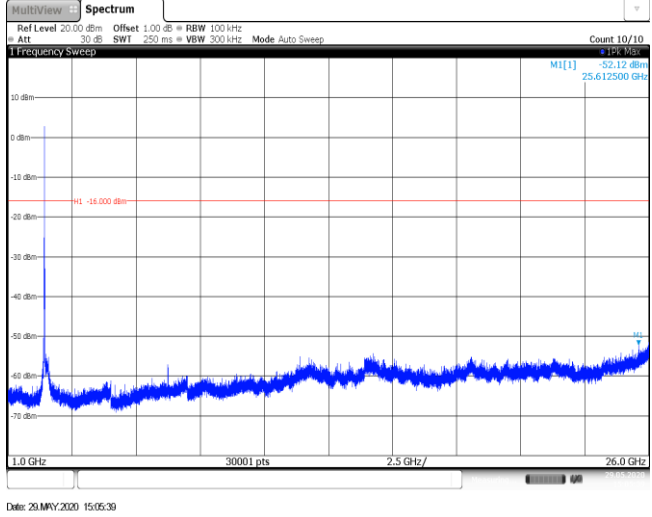
Appendix F: Band edge and Spurious Emissions (conducted)

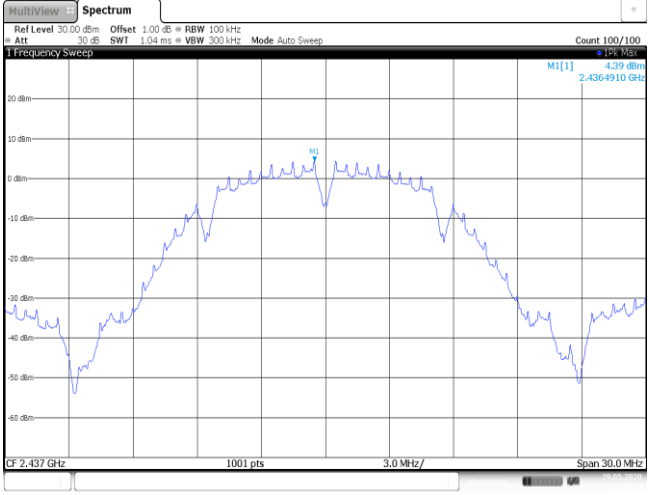
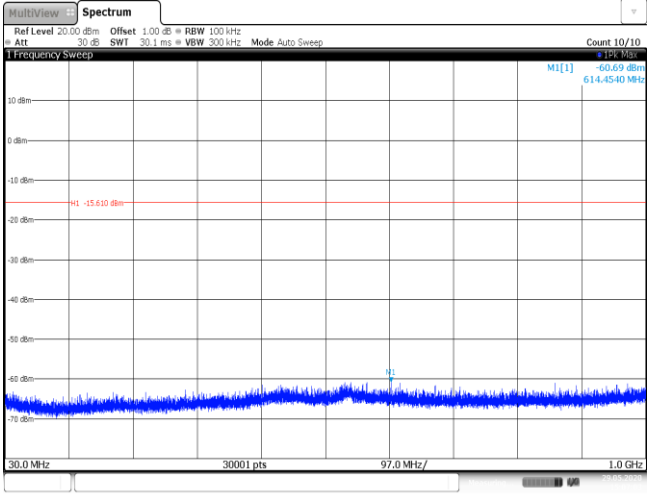
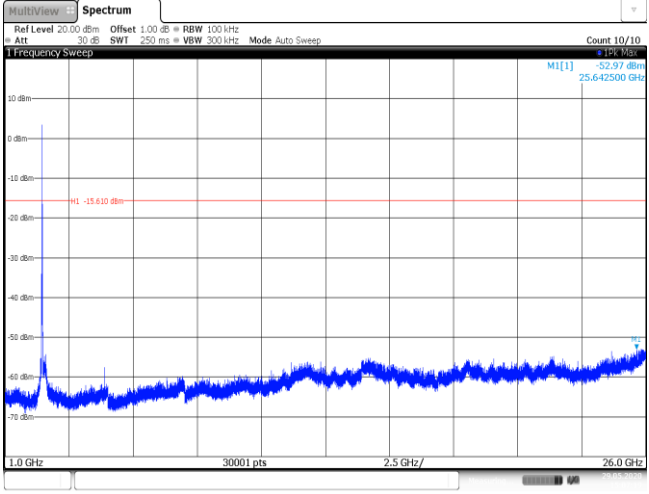
Test Item:	Bandedge	Type:	802.11 b																																										
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.12 ms VBW 300 kHz Mode Auto Sweep Count 200/300 1 Hz MS Frequency Sweep M1[1] 3.79 dBm M2[1] 2.411430 GHz M3[1] 2.400000 GHz -16.230 dBm 2.31 GHz 1001 pts 11.2 MHz/ 2.422 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>2.41143 GHz</td><td>3.79 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-46.40 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-54.24 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-61.19 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.397472 GHz</td><td>-33.04 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 15:05:00			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41143 GHz	3.79 dBm			M2	1		2.4 GHz	-46.40 dBm			M3	1		2.39 GHz	-54.24 dBm			M4	1		2.31 GHz	-61.19 dBm			M5	1		2.397472 GHz	-33.04 dBm		
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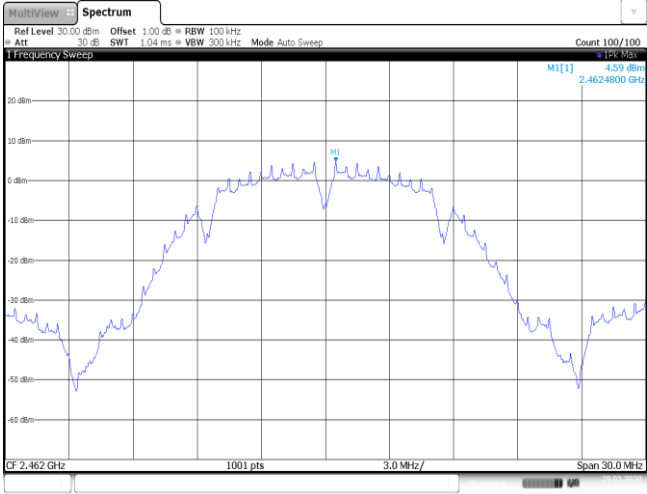
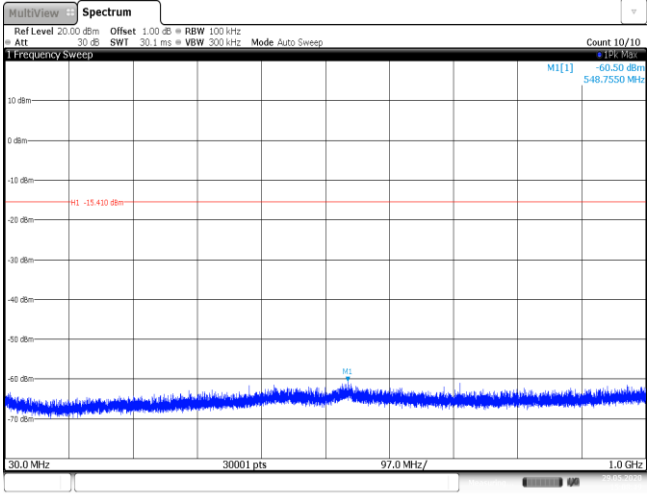
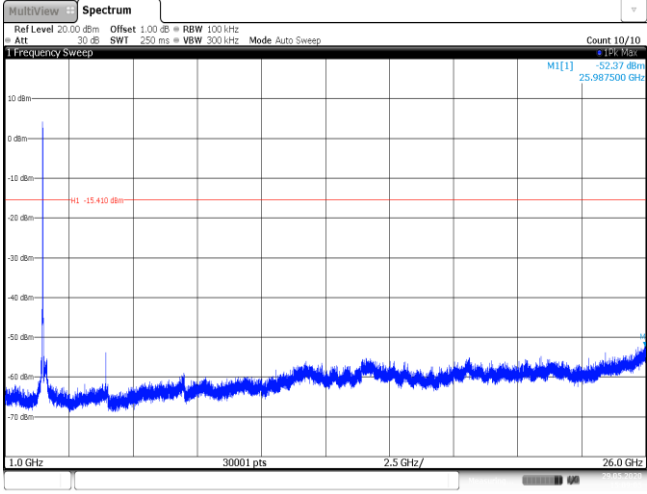
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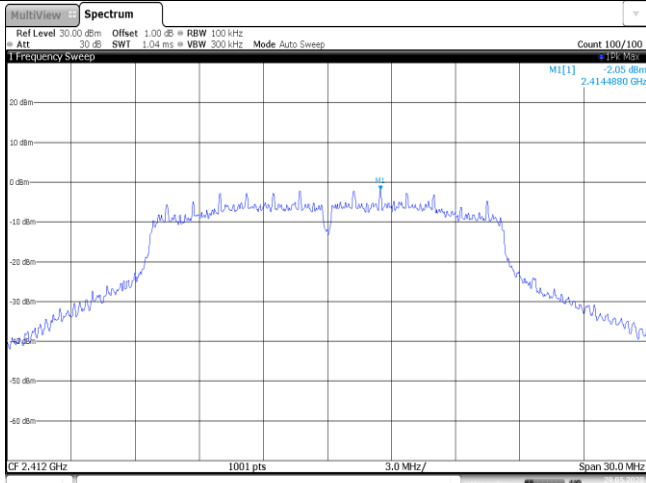
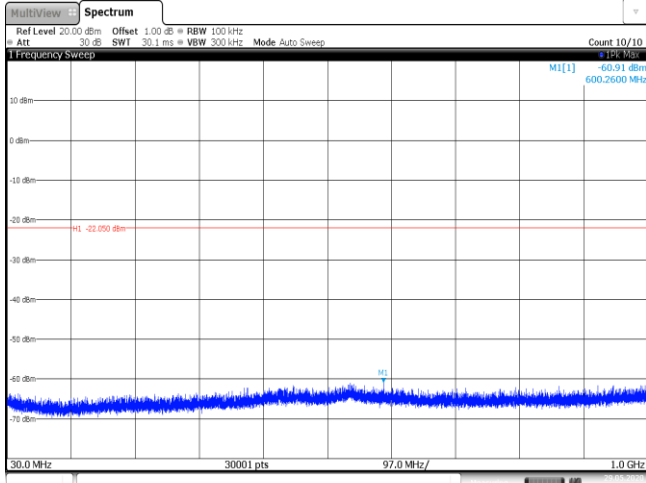
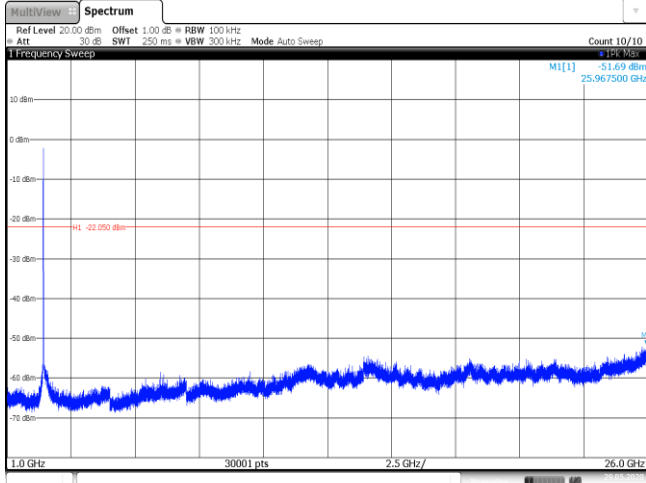
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
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M4	1		2.31 GHz	-61.47 dBm																																									
M5	1		2.399824 GHz	-33.14 dBm																																									
CH11	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz M1[1] 2.464492 GHz -1.31 dBm M2[1] 2.483500 GHz -44.26 dBm <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>-1.31 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-44.26 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-56.48 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483584 GHz</td><td>-43.63 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 15:20:26			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464492 GHz	-1.31 dBm			M2	1		2.4835 GHz	-44.26 dBm			M3	1		2.5 GHz	-56.48 dBm			M4	1		2.483584 GHz	-43.63 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.464492 GHz	-1.31 dBm																																									
M2	1		2.4835 GHz	-44.26 dBm																																									
M3	1		2.5 GHz	-56.48 dBm																																									
M4	1		2.483584 GHz	-43.63 dBm																																									

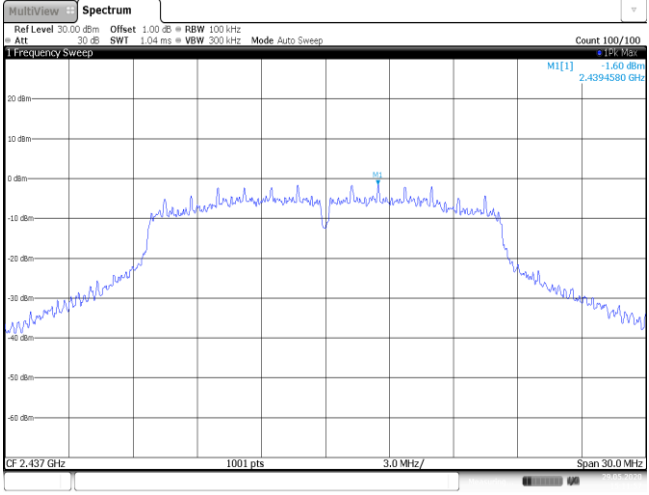
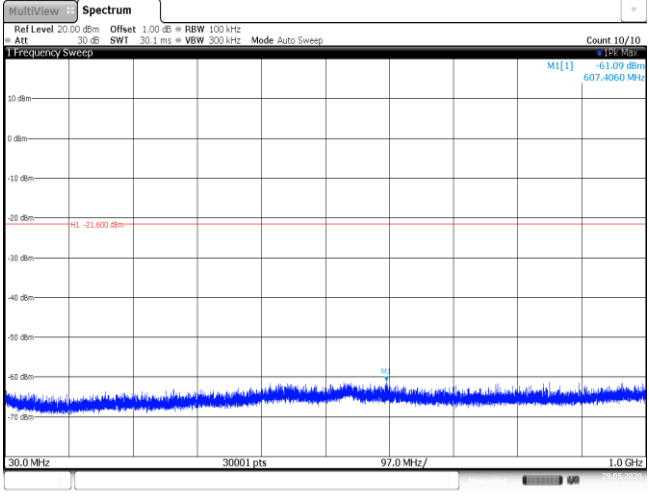
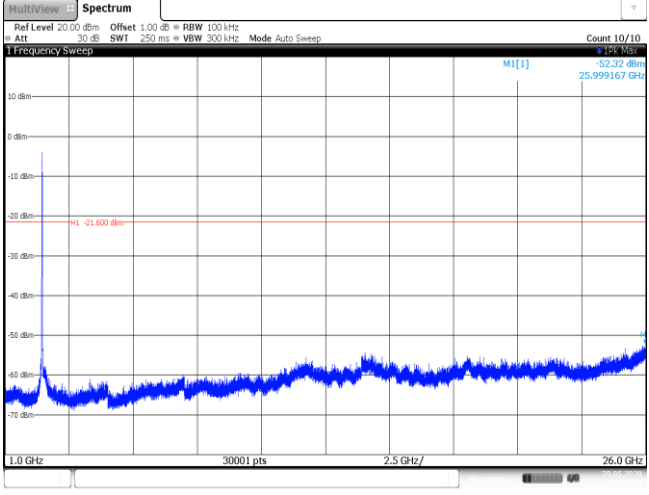
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.32 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep  2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.4269 GHz</td><td>-4.86 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-36.36 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-45.03 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-62.61 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399496 GHz</td><td>-35.44 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 15:22:13			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4269 GHz	-4.86 dBm			M2	1		2.4 GHz	-36.36 dBm			M3	1		2.39 GHz	-45.03 dBm			M4	1		2.31 GHz	-62.61 dBm			M5	1		2.399496 GHz	-35.44 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.4269 GHz	-4.86 dBm																																									
M2	1		2.4 GHz	-36.36 dBm																																									
M3	1		2.39 GHz	-45.03 dBm																																									
M4	1		2.31 GHz	-62.61 dBm																																									
M5	1		2.399496 GHz	-35.44 dBm																																									
CH09	MultiViewSpectrum 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><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>2.456965 GHz</td><td>-4.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-39.48 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-51.85 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484496 GHz</td><td>-34.94 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 15:29:11			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.456965 GHz	-4.33 dBm			M2	1		2.4835 GHz	-39.48 dBm			M3	1		2.5 GHz	-51.85 dBm			M4	1		2.484496 GHz	-34.94 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M2	1		2.4835 GHz	-39.48 dBm																																									
M3	1		2.5 GHz	-51.85 dBm																																									
M4	1		2.484496 GHz	-34.94 dBm																																									

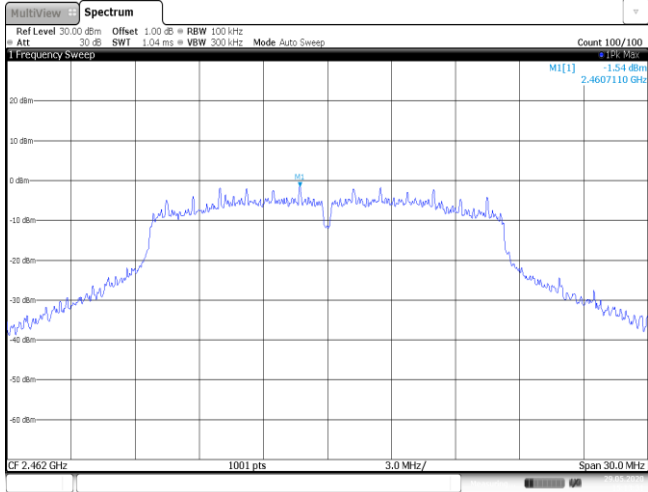
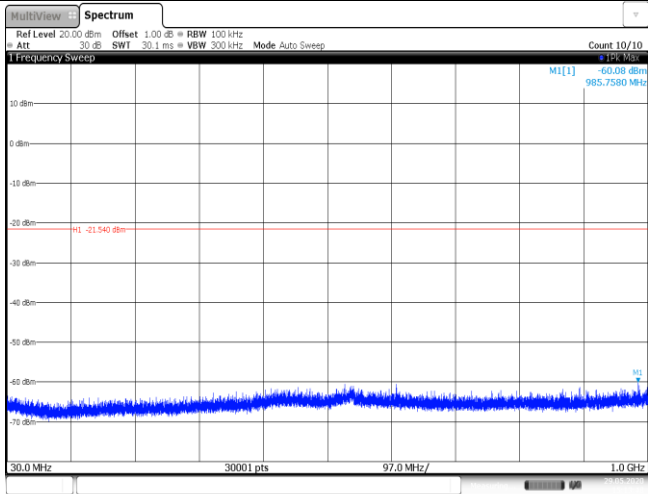
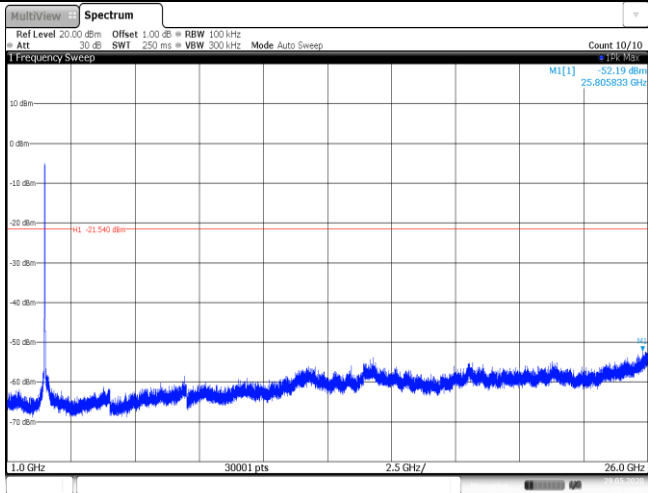
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

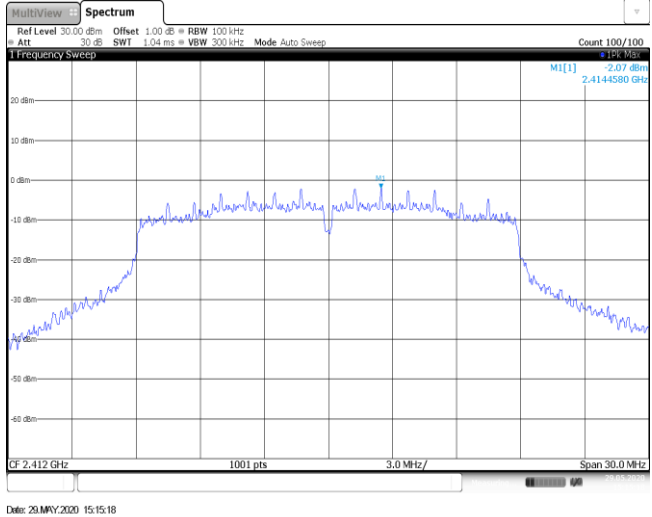
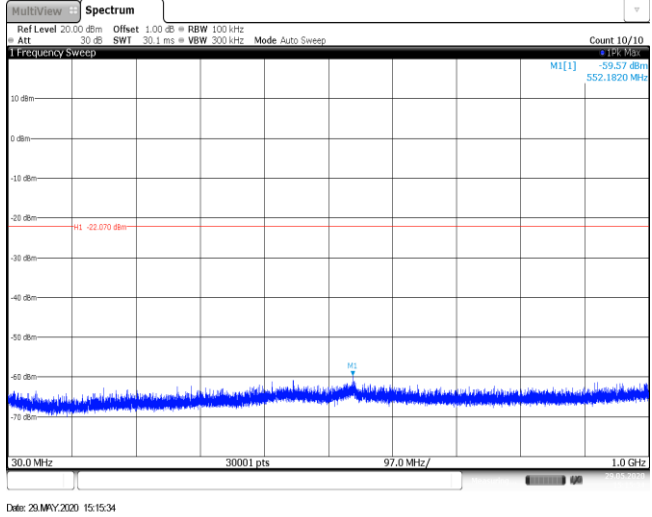
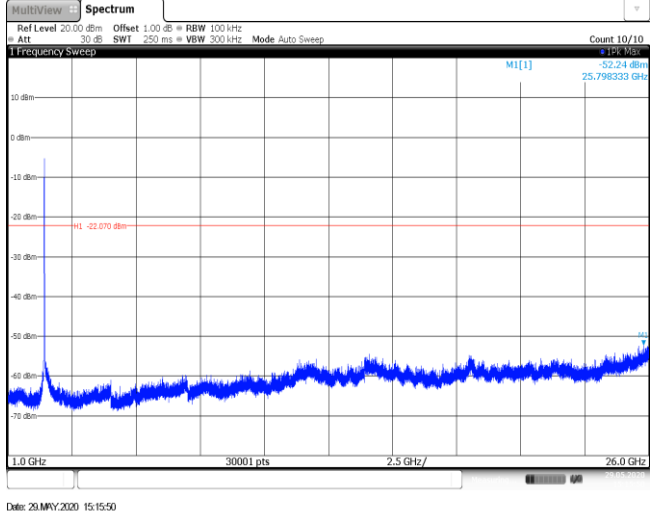
CH06 Reference level	 The spectrum plot shows a frequency sweep from 2.437 GHz to 2.4364910 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The plot shows a noisy signal with a peak around 0 dBm. The x-axis is labeled with 1001 pts and 3.0 MHz/. Date: 29.MAY.2020 15:06:47
CH06 30MHz~1000MHz	 The spectrum plot shows a frequency sweep from 30.0 MHz to 1000 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a noisy signal with a peak around -60 dBm. The x-axis is labeled with 30001 pts and 97.0 MHz/. Date: 29.MAY.2020 15:07:03
CH06 1GHz~26GHz	 The spectrum plot shows a frequency sweep from 1.0 GHz to 26.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a noisy signal with a peak around -52.97 dBm. The x-axis is labeled with 30001 pts and 2.5 GHz/. Date: 29.MAY.2020 15:07:19

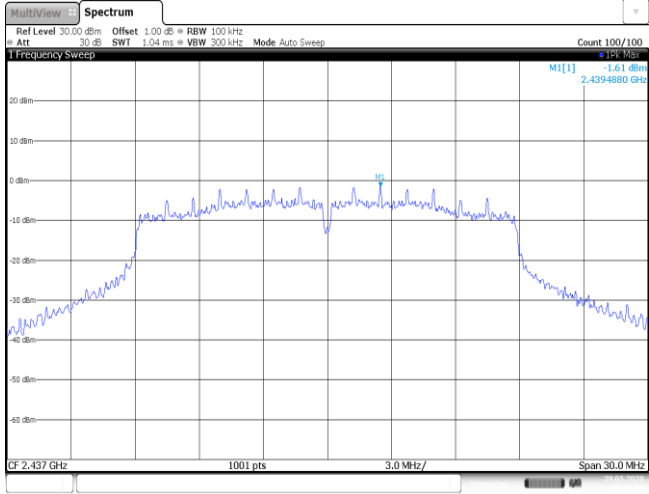
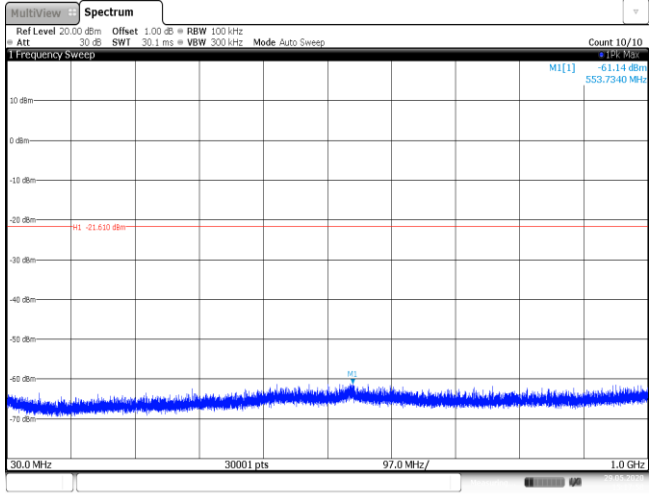
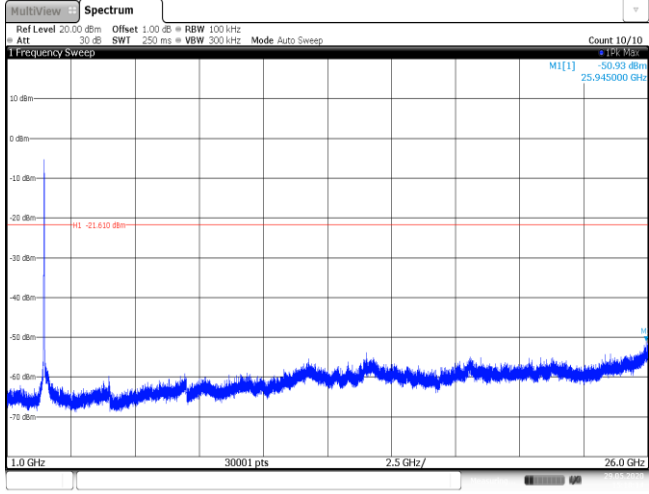
CH11 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30.0 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 4.59 dBm 2.462800 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29.MAY.2020 15:08:33
CH11 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30.0 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.50 dBm 548.7550 MHz H1 -15.410 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29.MAY.2020 15:08:49
CH11 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30.0 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.37 dBm 25.987500 GHz H1 -15.410 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29.MAY.2020 15:08:05

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

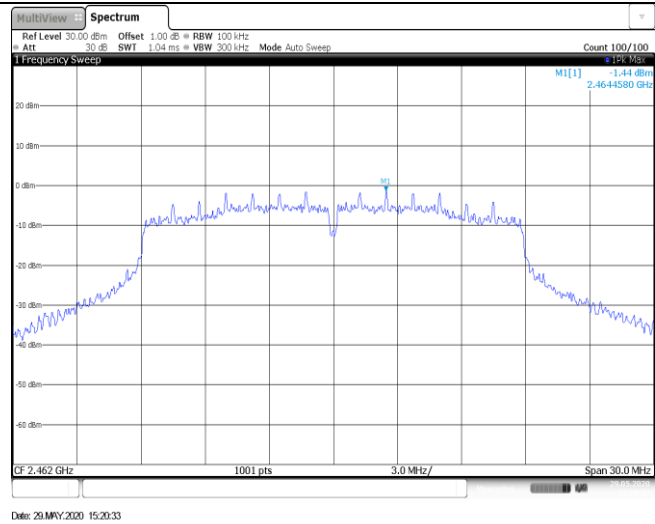
CH06 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VSW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -1.60 dBm 2.4394580 GHz CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29.MAY.2020 15:11:57
CH06 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VSW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.09 dBm 607.4060 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29.MAY.2020 15:12:13
CH06 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VSW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.32 dBm 25.999167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29.MAY.2020 15:12:30

CH11 Reference level	 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 MI[1] -1.54 dBm 2.4607110 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29.MAY.2020 15:13:31
CH11 30MHz~1000MHz	 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 MI[1] -60.08 dBm 985.7580 MHz MI -21.540 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29.MAY.2020 15:13:48
CH11 1GHz~26GHz	 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 MI[1] -52.19 dBm 25.805833 GHz MI -21.540 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29.MAY.2020 15:14:04

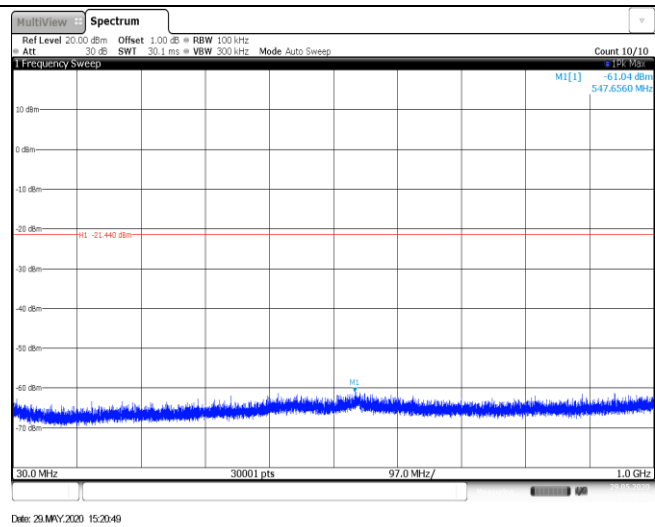
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VSW 300 kHz Mode Auto Sweep Count 100/100 MI[1] -1.61 dBm 2.4394880 GHz CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29.MAY.2020 15:17:43
CH06 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VSW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -61.14 dBm 553.7340 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29.MAY.2020 15:17:58
CH06 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VSW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -50.93 dBm 25.945000 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29.MAY.2020 15:18:15

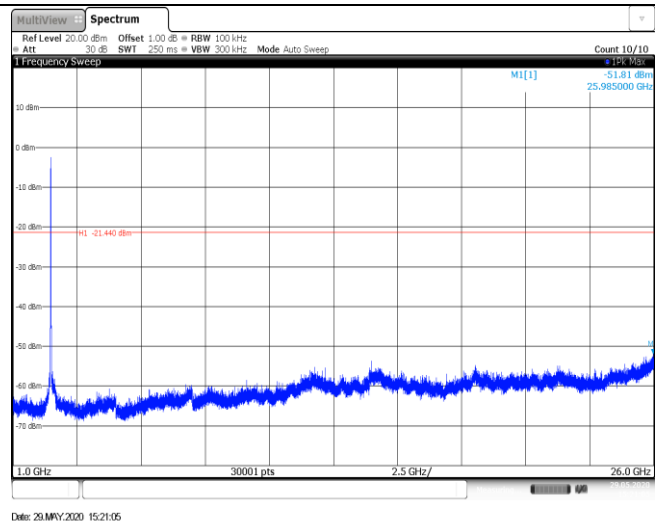
CH11
Reference level

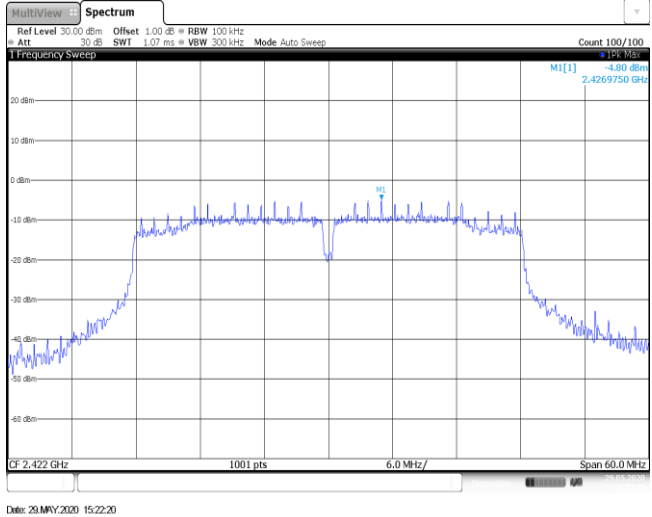
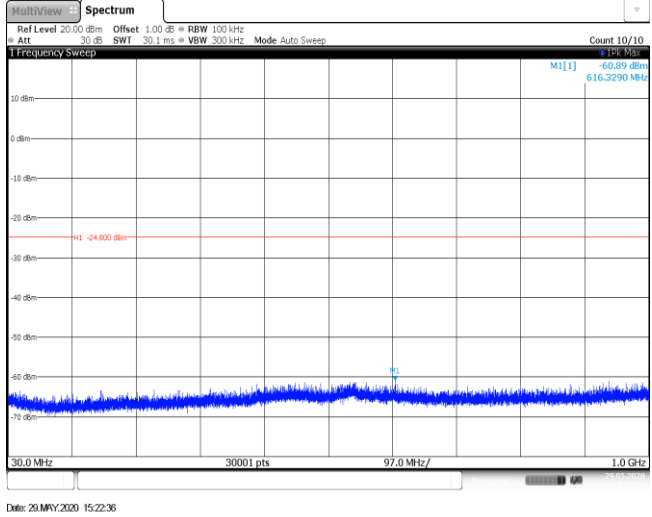
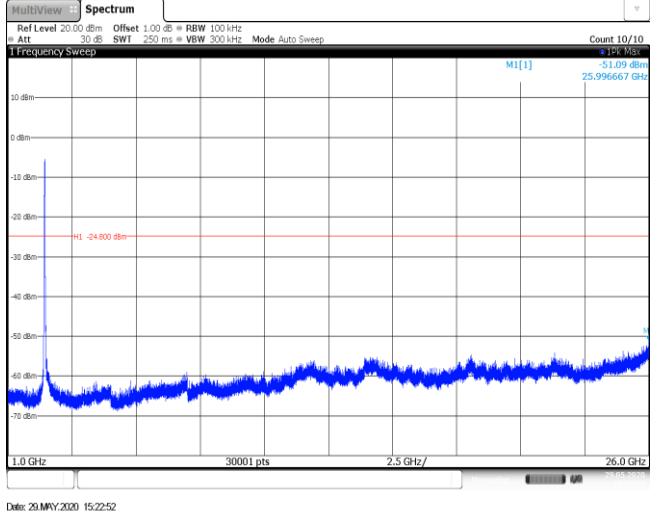


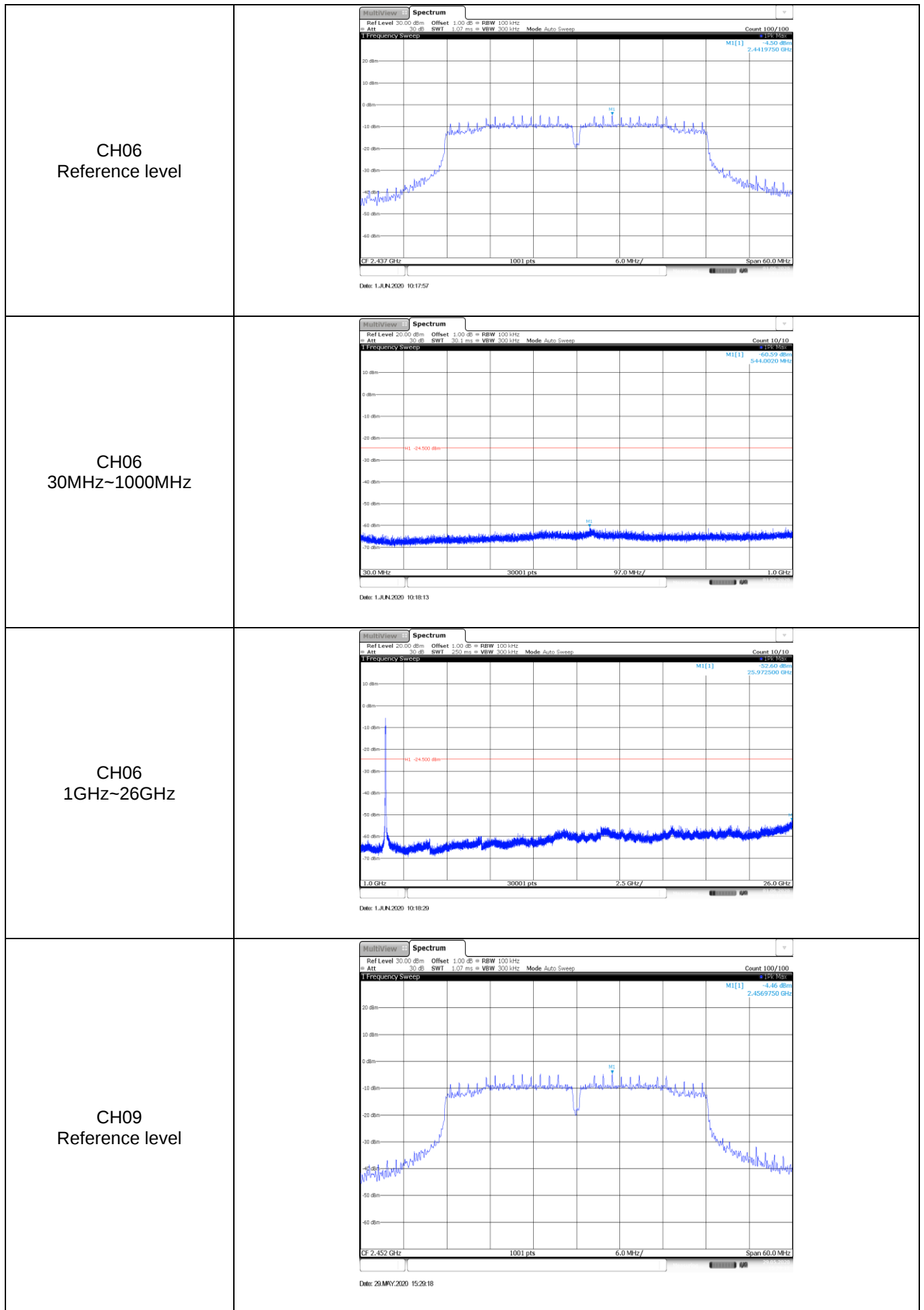
CH11
30MHz~1000MHz

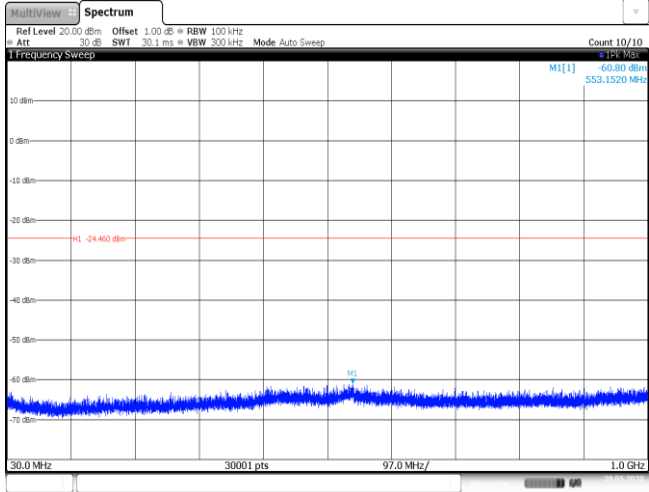
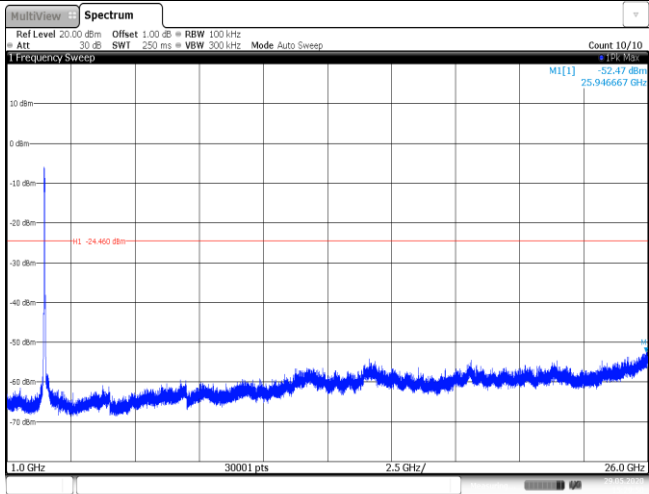


CH11
1GHz~26GHz



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



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

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