

APPENDIX REPORT

Project No.	SHT2108128604EW	Radio Specification	WIFI 5G
Test sample No.	YPHT2107089006	Model No.	TS-61
Start test date	2021-09-08	Finish date	2021-09-08
Temperature	25.4℃	Humidity	39%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Maximum Conducted Output Power	PASS
B	Maximum Power Spectral Density	PASS
C	26 dB Bandwidth	PASS
D	99% Occupy bandwidth	PASS
E	6 dB Bandwidth	PASS
F	Band Edge	PASS
G	Frequency stability	PASS

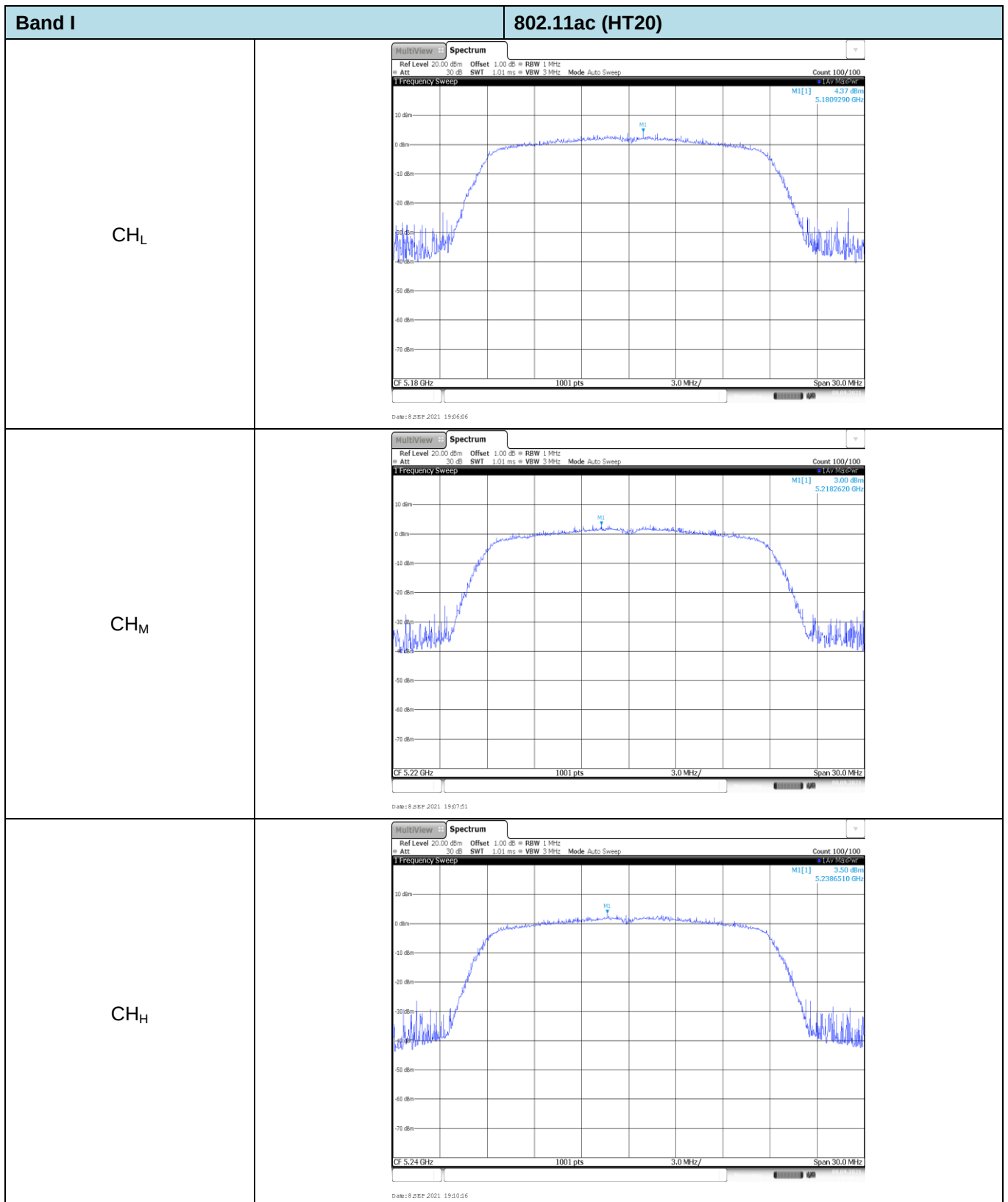
Appendix A: Maximum Conducted Output Power

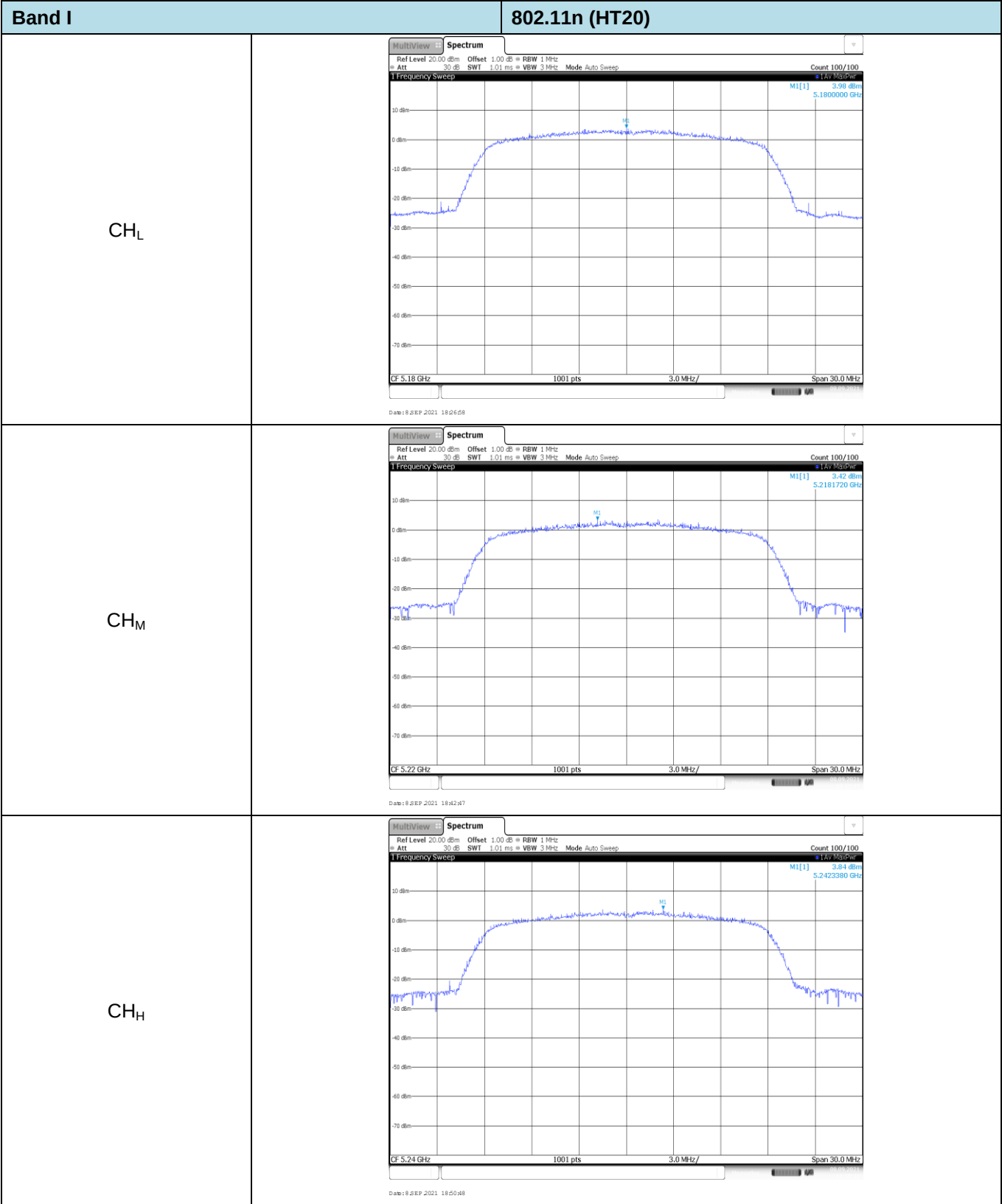
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH _L	12.16	96.58	0.15	12.31	24.00	Pass
			CH _M	12.20	96.58	0.15	12.35		
			CH _H	12.92	96.58	0.15	13.07		
		802.11n	CH _L	12.14	96.55	0.15	12.29	24.00	Pass
			CH _M	12.66	96.55	0.15	12.81		
			CH _H	13.10	96.55	0.15	13.25		
		802.11a	CH _L	12.65	96.77	0.14	12.79	24.00	Pass
			CH _M	11.94	96.77	0.14	12.08		
			CH _H	12.87	96.68	0.15	13.02		
	40	802.11ac	CH _L	12.18	93.57	0.29	12.47	24.00	Pass
			CH _H	12.71	93.48	0.29	13.00		
		802.11n	CH _L	12.00	93.45	0.29	12.29	24.00	Pass
			CH _H	12.68	93.53	0.29	12.97		
	80	802.11ac	CH _M	12.52	87.52	0.58	13.10	24.00	Pass
IV	20	802.11ac	CH _L	12.77	96.58	0.15	12.92	30.00	Pass
			CH _M	12.04	96.57	0.15	12.19		
			CH _H	11.89	96.57	0.15	12.04		
		802.11n	CH _L	13.33	96.55	0.15	13.48	30.00	Pass
			CH _M	12.57	96.55	0.15	12.72		
			CH _H	12.54	96.55	0.15	12.69		
		802.11a	CH _L	12.97	96.77	0.14	13.11	30.00	Pass
			CH _M	12.23	96.77	0.14	12.37		
			CH _H	12.09	96.77	0.14	12.23		
	40	802.11ac	CH _L	12.61	93.48	0.29	12.90	30.00	Pass
			CH _H	12.15	93.57	0.29	12.44		
		802.11n	CH _L	12.78	93.53	0.29	13.07	30.00	Pass
			CH _H	12.26	93.45	0.29	12.55		
	80	802.11ac	CH _M	12.50	87.67	0.57	13.07	30.00	Pass

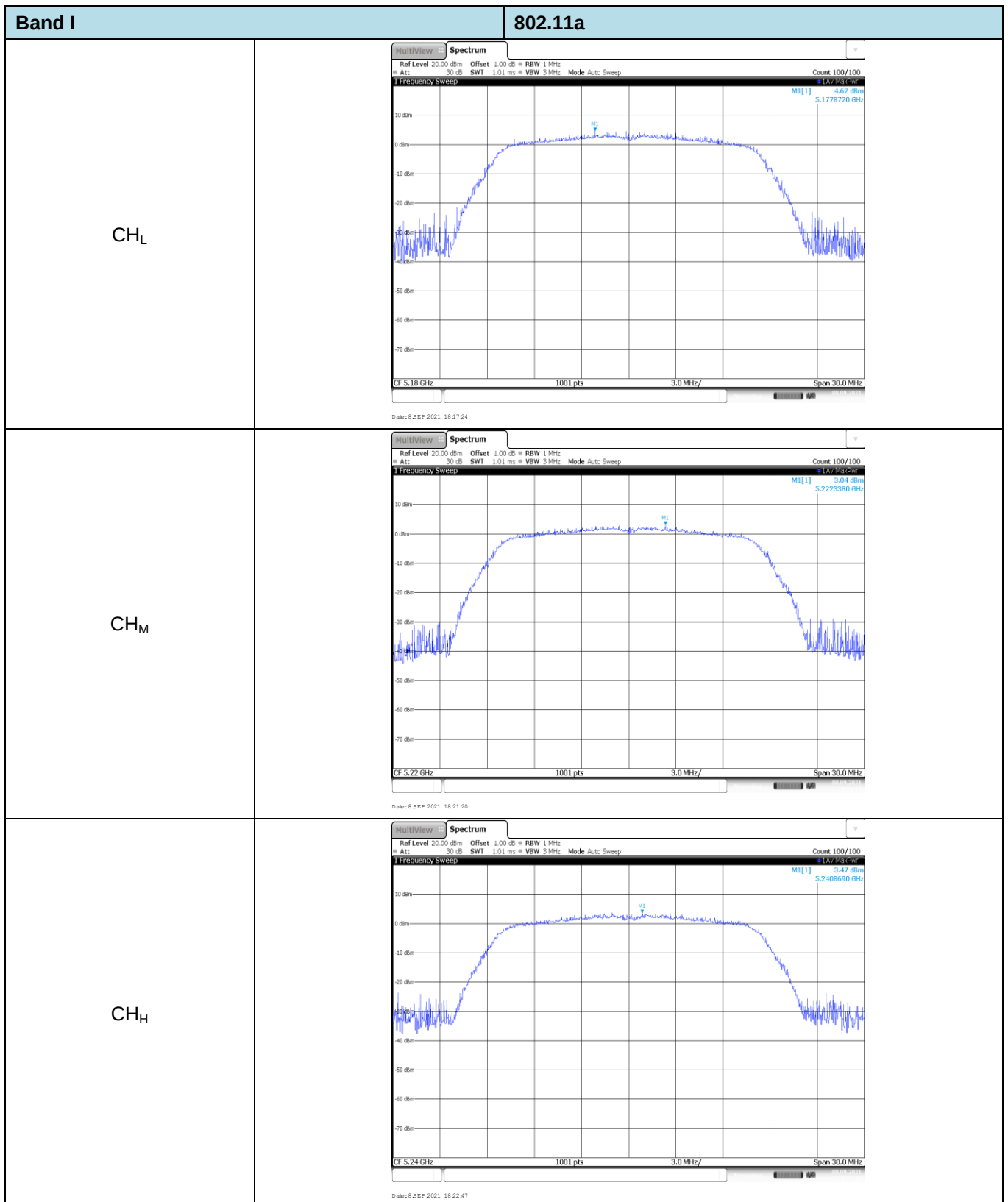
NOTE: duty cycle factor =10LOG(1/ duty cycle)

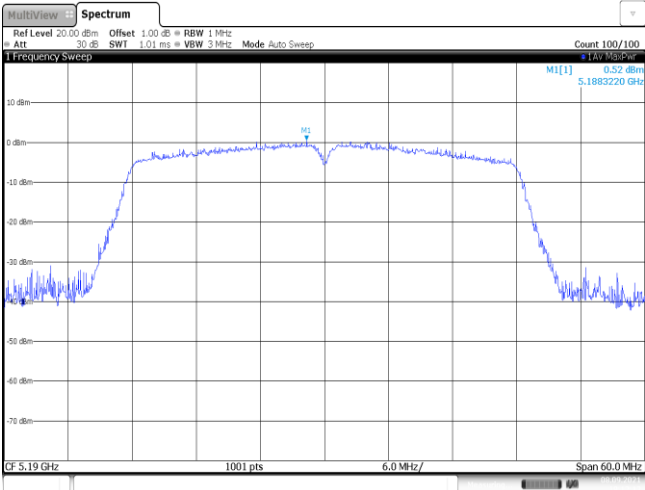
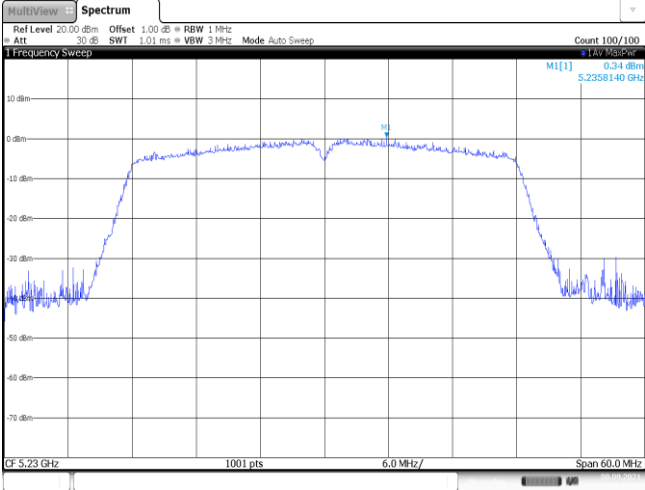
Appendix B: Maximum Power Spectral Density

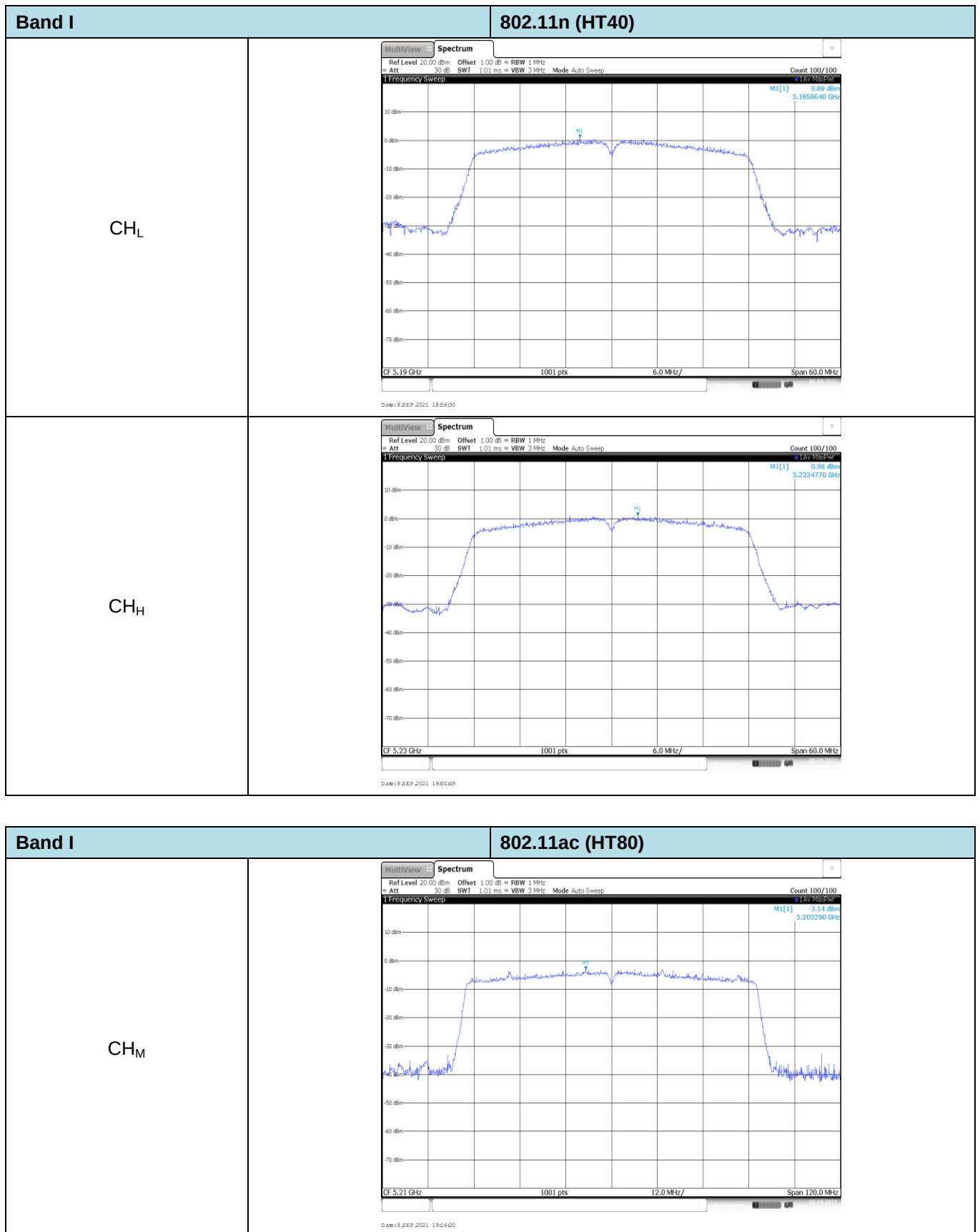
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11 ac	CH _L	4.37	96.58	0.15	4.52	11.00	Pass
			CH _M	3.00	96.58	0.15	3.15		
			CH _H	3.50	96.58	0.15	3.65		
		802.11 n	CH _L	3.98	96.55	0.15	4.13	11.00	Pass
			CH _M	3.42	96.55	0.15	3.57		
			CH _H	3.84	96.55	0.15	3.99		
		802.11 a	CH _L	4.62	96.77	0.14	4.76	11.00	Pass
			CH _M	3.04	96.77	0.14	3.18		
			CH _H	3.47	96.68	0.15	3.62		
	40	802.11 ac	CH _L	0.52	93.57	0.29	0.81	11.00	Pass
			CH _H	0.34	93.48	0.29	0.63		
		802.11 n	CH _L	0.88	93.45	0.29	1.17	11.00	Pass
			CH _H	0.98	93.53	0.29	1.27		
	80	802.11 ac	CH _M	-3.14	87.52	0.58	-2.56	11.00	Pass
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/500K Hz)	Limit (dBm/500K Hz)	Result
IV	20	802.11 ac	CH _L	1.24	96.58	0.15	1.39	30.00	Pass
			CH _M	1.39	96.57	0.15	1.54		
			CH _H	0.27	96.57	0.15	0.42		
		802.11 n	CH _L	1.87	96.55	0.15	2.02	30.00	Pass
			CH _M	2.14	96.55	0.15	2.29		
			CH _H	0.93	96.55	0.15	1.08		
		802.11 a	CH _L	1.84	96.77	0.14	1.98	30.00	Pass
			CH _M	1.72	96.77	0.14	1.86		
			CH _H	0.79	96.77	0.14	0.93		
	40	802.11 ac	CH _L	-1.29	93.48	0.29	-1.00	30.00	Pass
			CH _H	-1.65	93.57	0.29	-1.36		
		802.11 n	CH _L	-1.39	93.53	0.29	-1.10	30.00	Pass
			CH _H	-0.82	93.45	0.29	-0.53		
	80	802.11 ac	CH _M	-4.19	87.67	0.57	-3.62	30.00	Pass

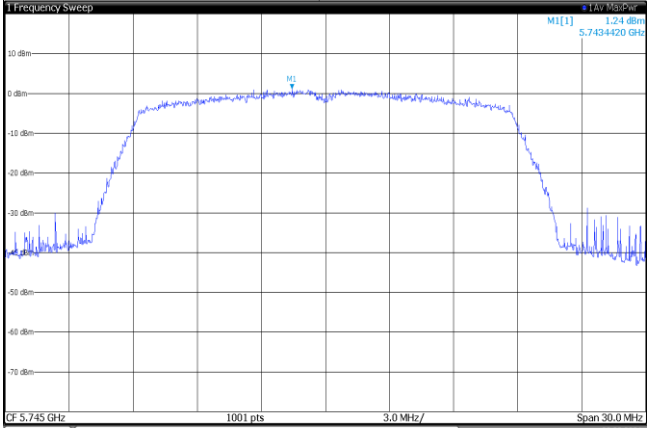
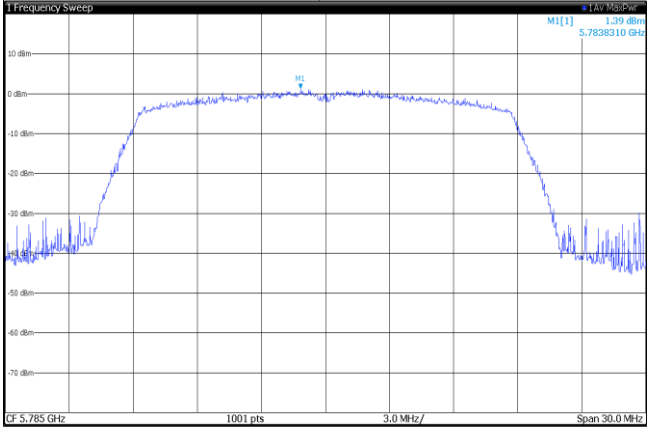
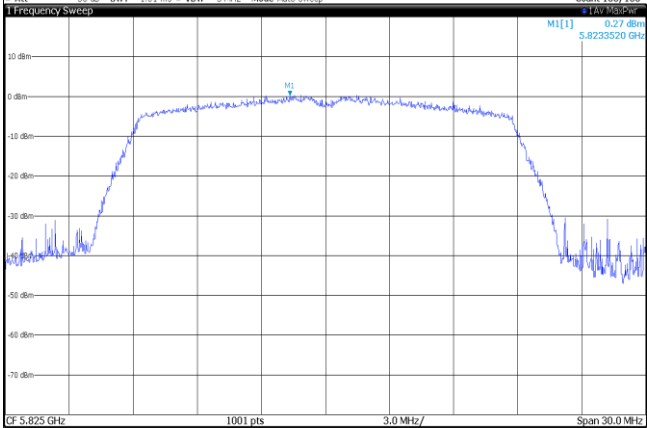


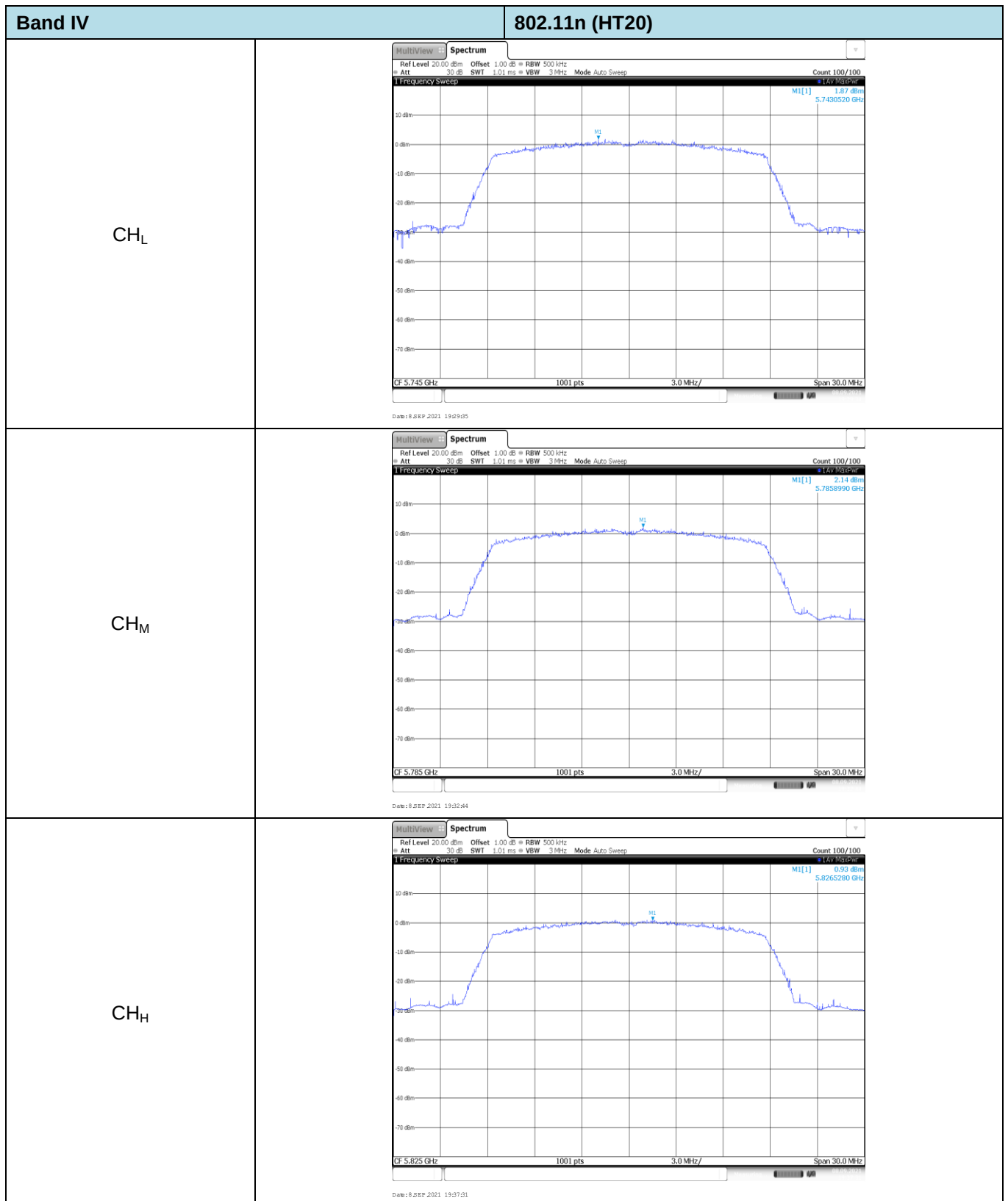


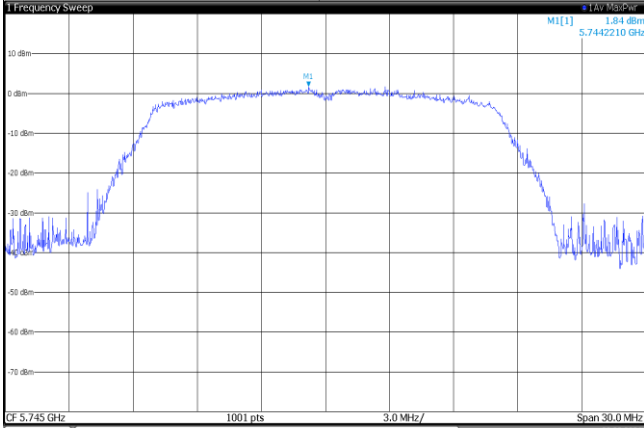
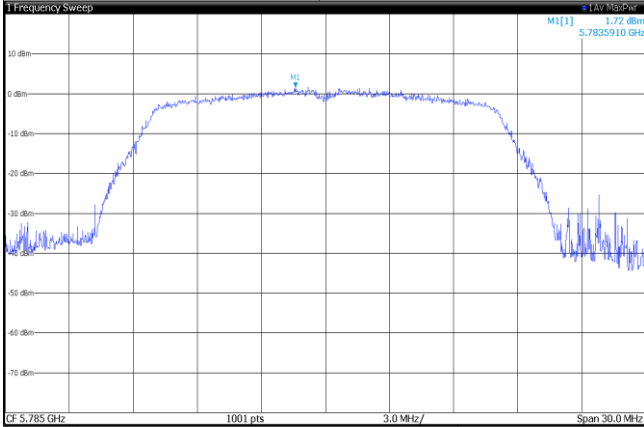
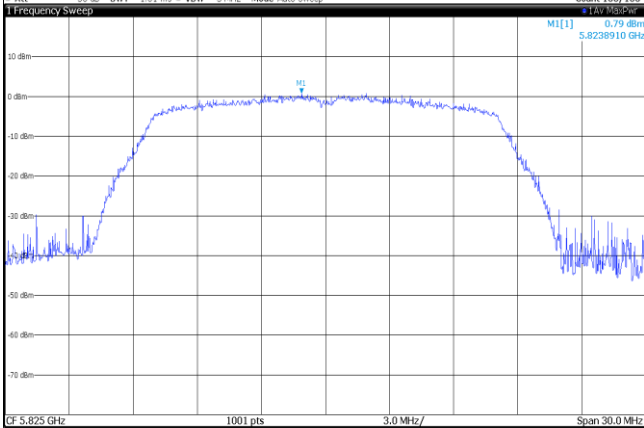


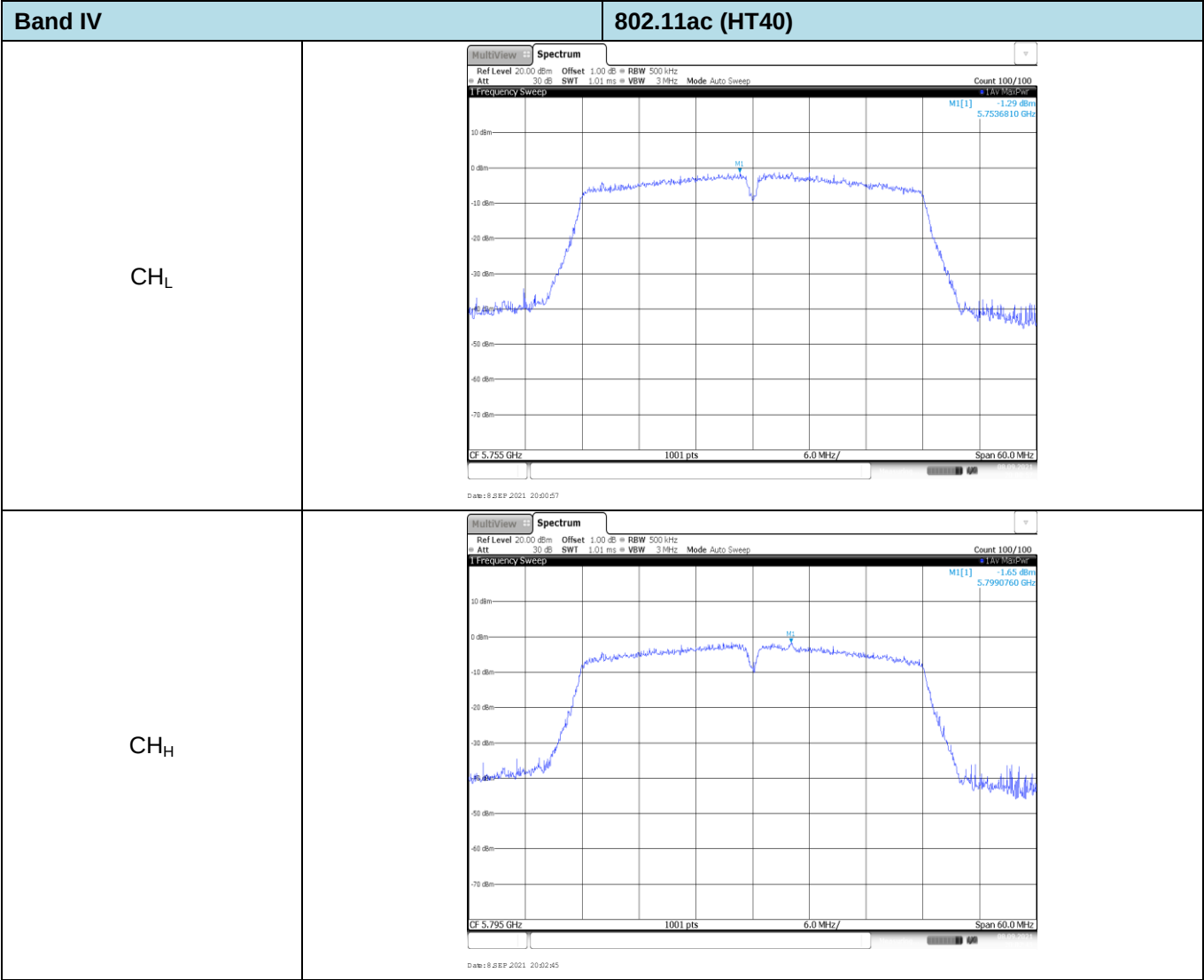
Band I		802.11ac (HT40)	
CH _L			
		Date: 8 SEP 2021 19:12:12	
CH _H			
		Date: 8 SEP 2021 19:13:44	

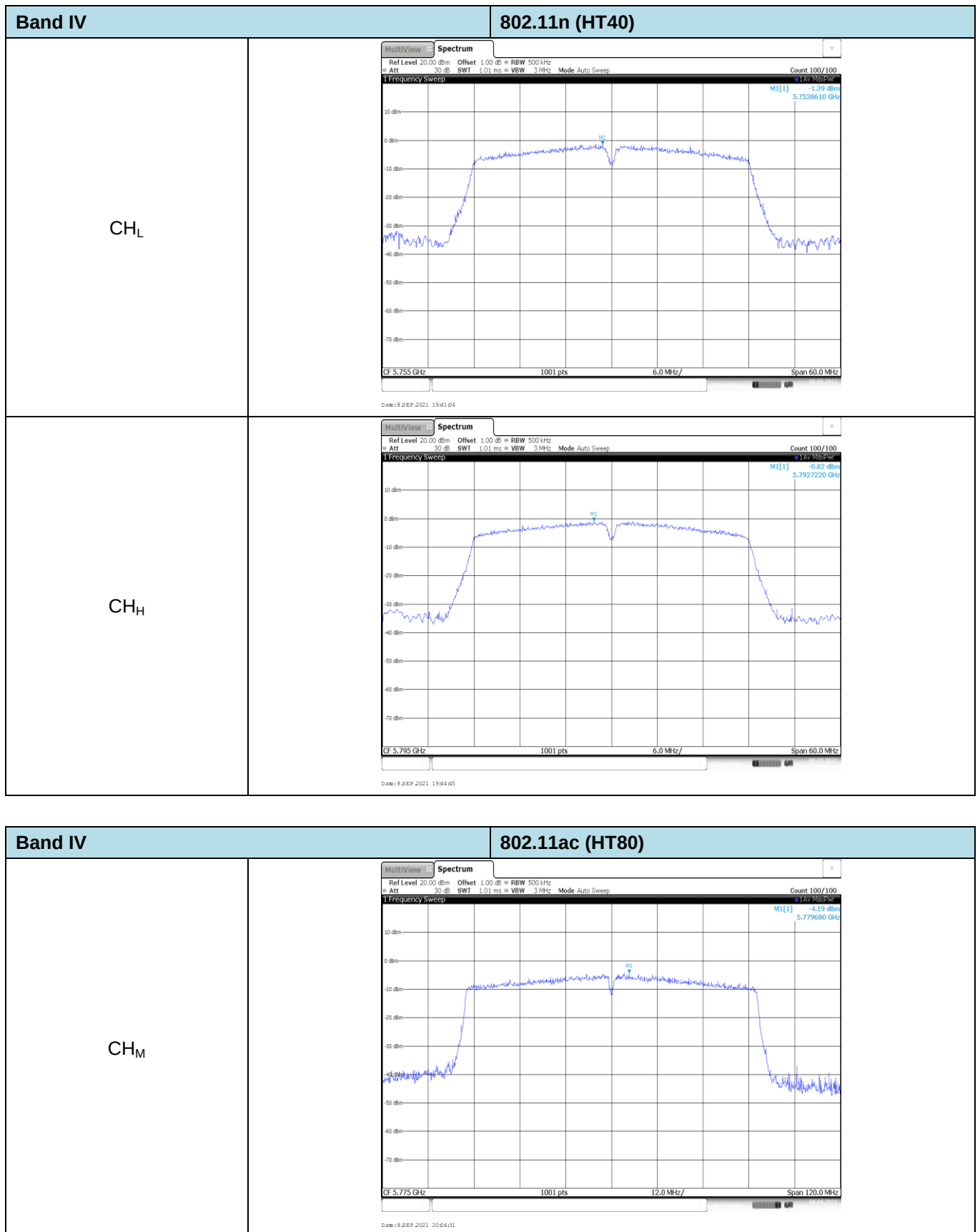


Band IV		802.11ac (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 1.24 dBm 5.7434420 GHz  CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 SEP 2021 19:48:06	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 1.39 dBm 5.7838310 GHz  CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 SEP 2021 19:50:54	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 0.27 dBm 5.8233520 GHz  CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 SEP 2021 19:52:56	



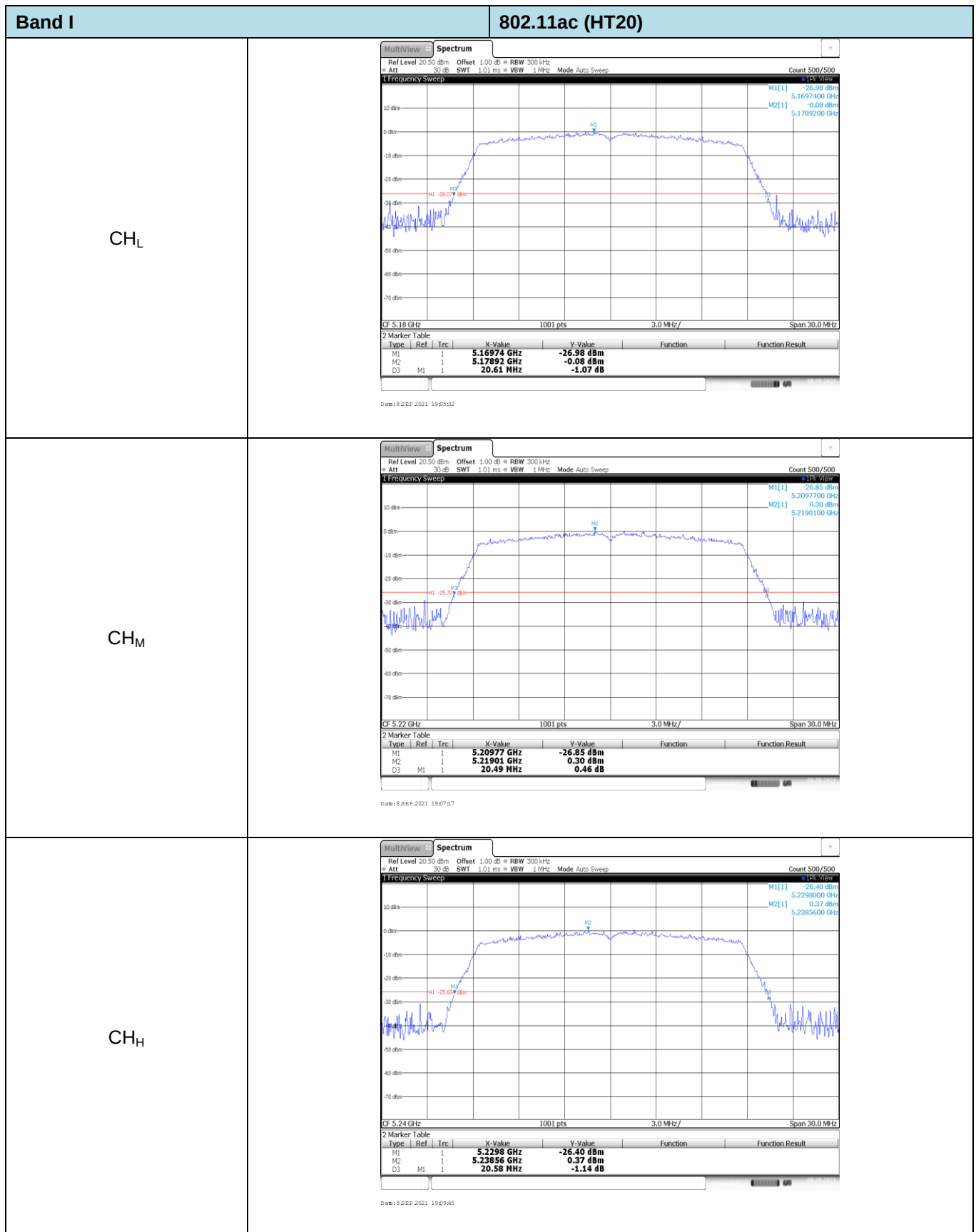
Band IV		802.11a
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 STAT MS/PPW Frequency Sweep  MU[1] 1.84 dBm 5.7442210 GHz CF 5.745 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 8 SEP 2021 19:18:57	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 STAT MS/PPW Frequency Sweep  MU[1] 1.72 dBm 5.7835910 GHz CF 5.785 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 8 SEP 2021 19:20:55	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 STAT MS/PPW Frequency Sweep  MU[1] 0.79 dBm 5.8238910 GHz CF 5.825 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 8 SEP 2021 19:22:30	



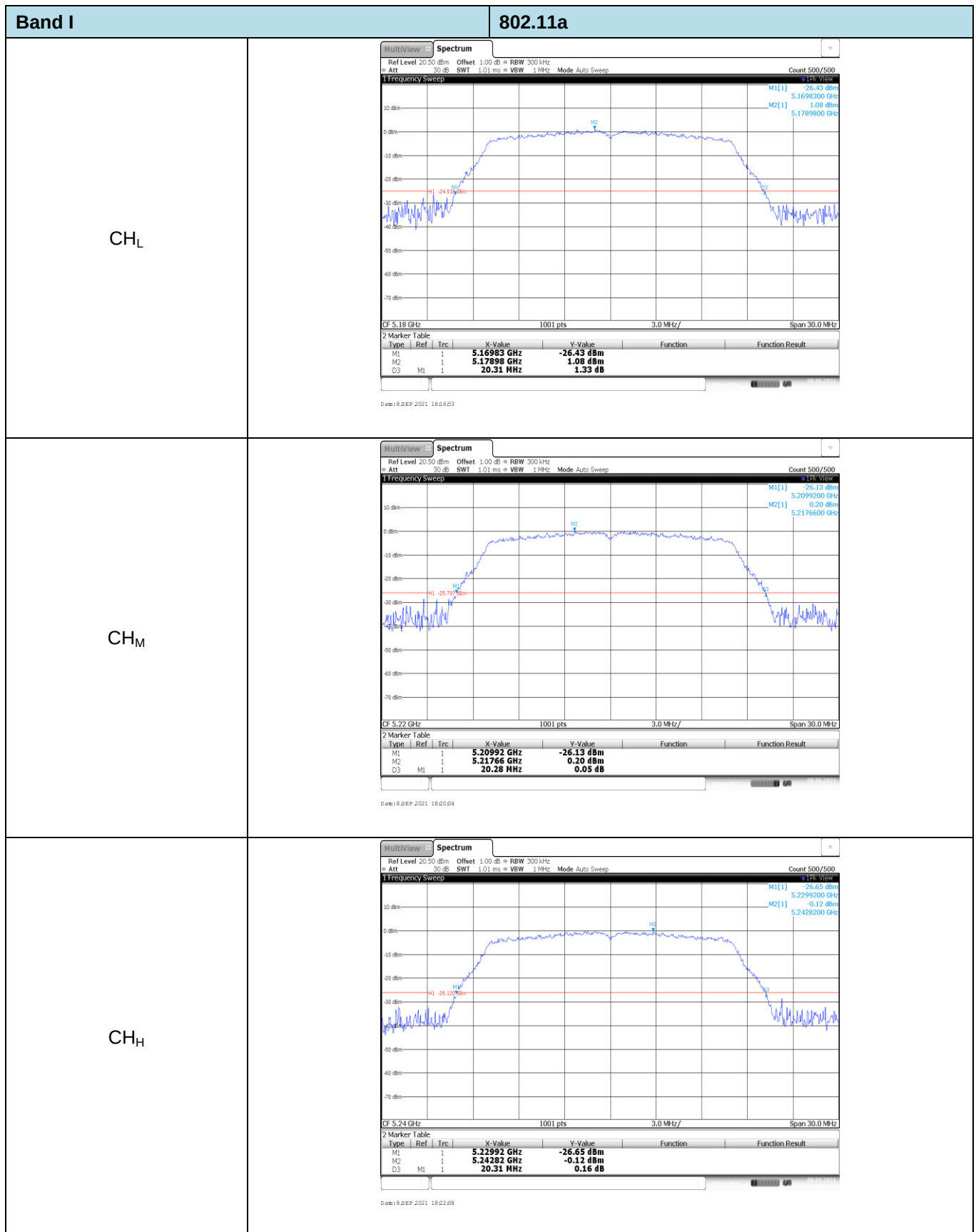


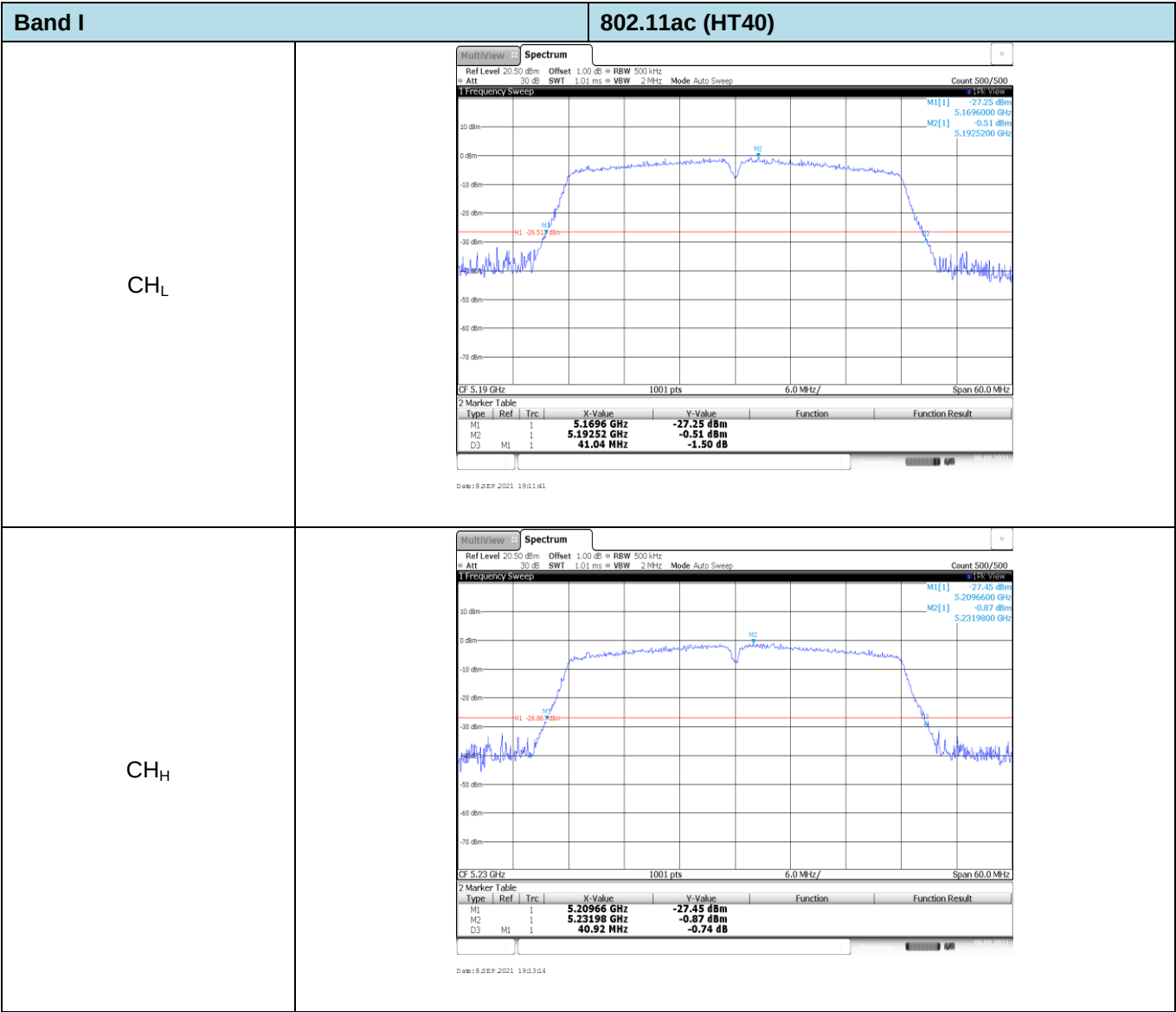
Appendix C: 26dB bandwidth

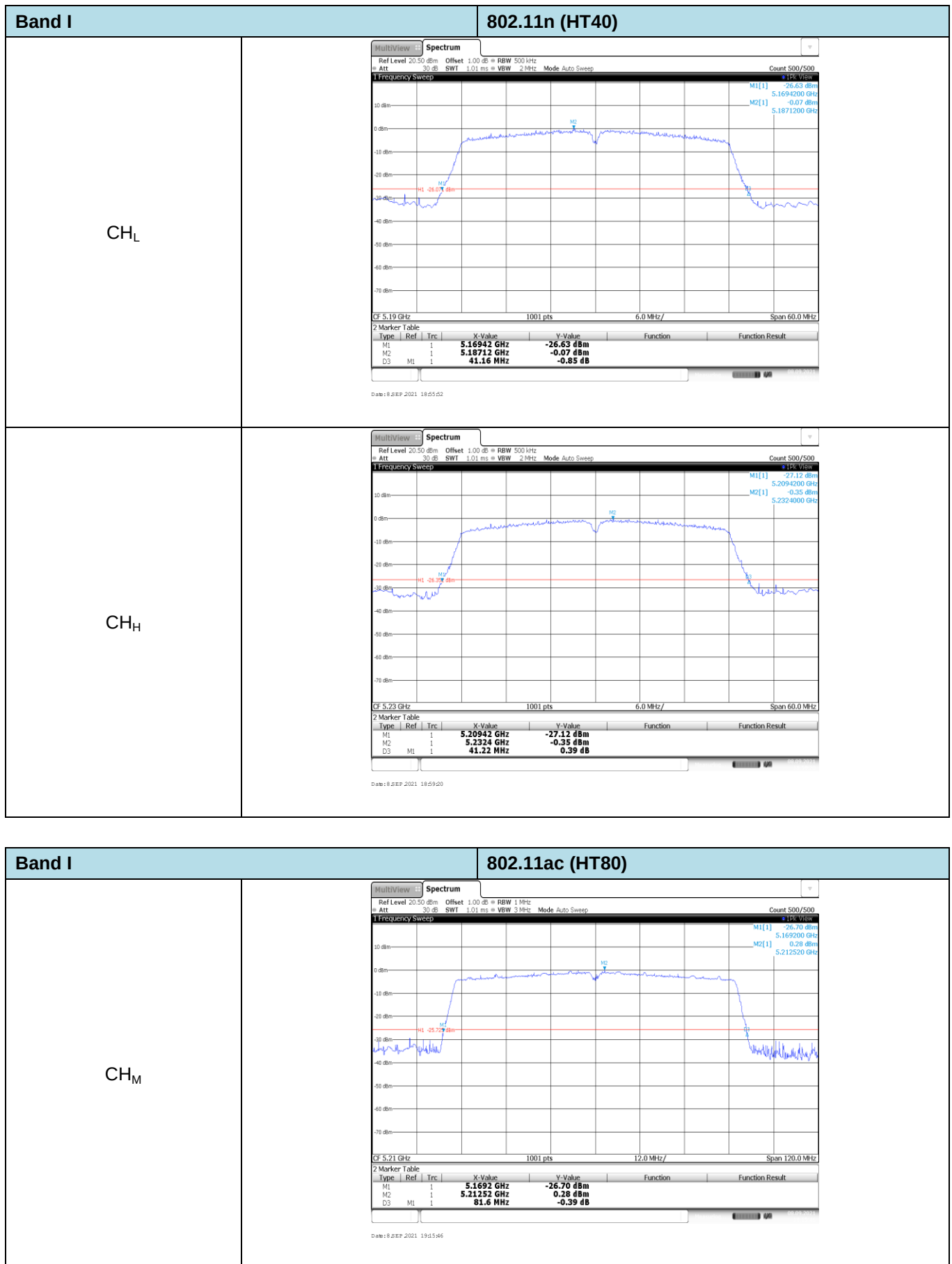
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.61	Pass
			CH _M	20.49	
			CH _H	20.58	
		802.11n	CH _L	20.73	Pass
			CH _M	20.70	
			CH _H	20.67	
		802.11a	CH _L	20.31	Pass
			CH _M	20.28	
			CH _H	20.31	
	40	802.11ac	CH _L	41.04	Pass
			CH _H	40.92	
		802.11n	CH _L	41.16	Pass
			CH _H	41.22	
	80	802.11ac	CH _M	81.60	Pass



Band I		802.11n (HT20)																													
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWF 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 1 -27.64 dBm 5.1695900 GHz M2 1 -0.06 dBm 5.1785300 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.16959 GHz</td><td>-27.64 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.17853 GHz</td><td>-0.06 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.73 MHz</td><td>0.78 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 18:25:29			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16959 GHz	-27.64 dBm			M2	1		5.17853 GHz	-0.06 dBm			D3	M1	1	20.73 MHz	0.78 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																									
M1	1		5.16959 GHz	-27.64 dBm																											
M2	1		5.17853 GHz	-0.06 dBm																											
D3	M1	1	20.73 MHz	0.78 dB																											
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWF 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm M1 1 -25.69 dBm 5.2096800 GHz M2 1 -0.53 dBm 5.2189800 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.20968 GHz</td><td>-25.69 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.21898 GHz</td><td>-0.53 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.7 MHz</td><td>-0.86 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 18:40:19			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.20968 GHz	-25.69 dBm			M2	1		5.21898 GHz	-0.53 dBm			D3	M1	1	20.7 MHz	-0.86 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																									
M1	1		5.20968 GHz	-25.69 dBm																											
M2	1		5.21898 GHz	-0.53 dBm																											
D3	M1	1	20.7 MHz	-0.86 dB																											
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWF 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm M1 1 -26.27 dBm 5.2297100 GHz M2 1 -0.56 dBm 5.2371500 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.22971 GHz</td><td>-26.27 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.23715 GHz</td><td>-0.56 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.67 MHz</td><td>0.20 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 18:49:48			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.22971 GHz	-26.27 dBm			M2	1		5.23715 GHz	-0.56 dBm			D3	M1	1	20.67 MHz	0.20 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																									
M1	1		5.22971 GHz	-26.27 dBm																											
M2	1		5.23715 GHz	-0.56 dBm																											
D3	M1	1	20.67 MHz	0.20 dB																											

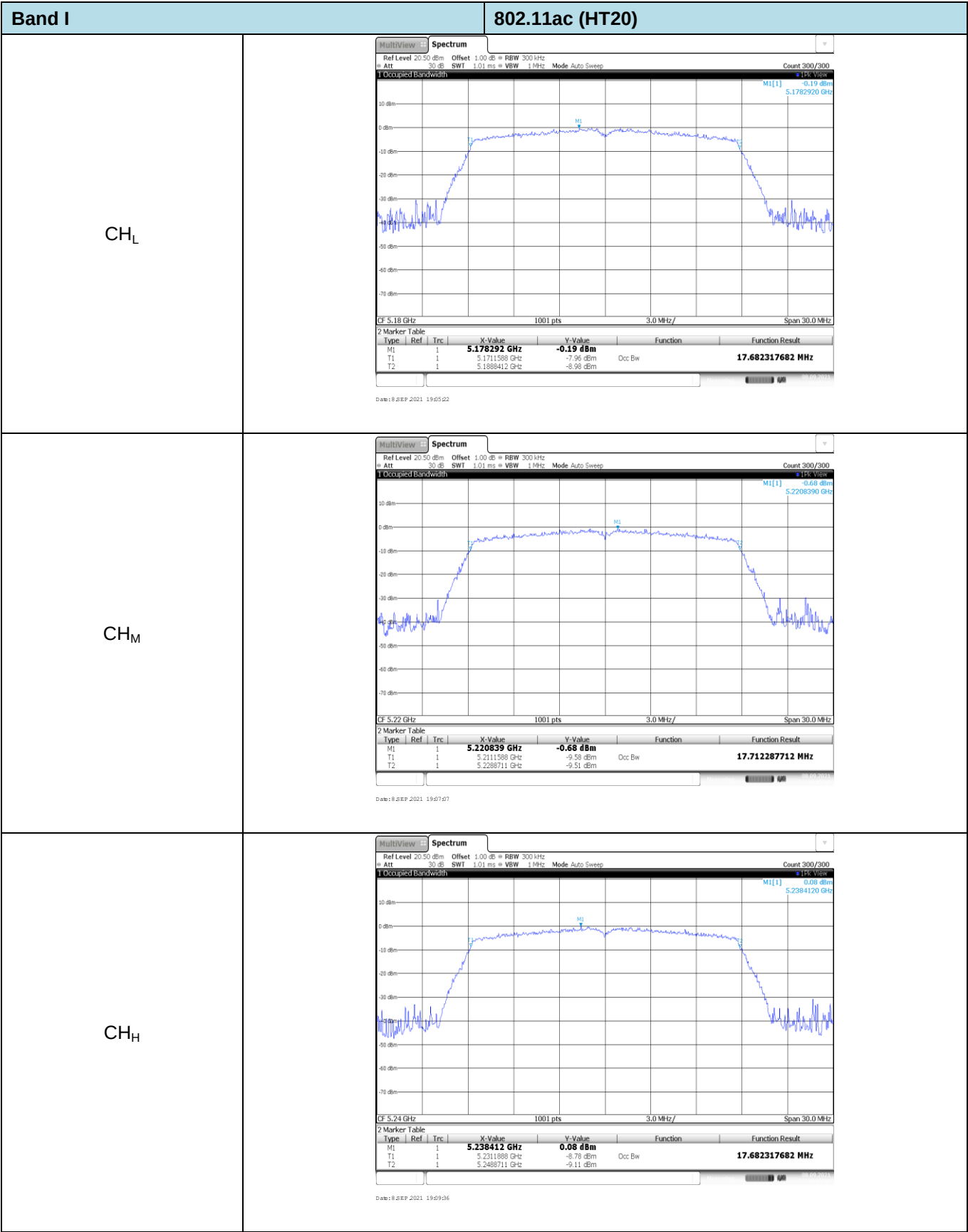


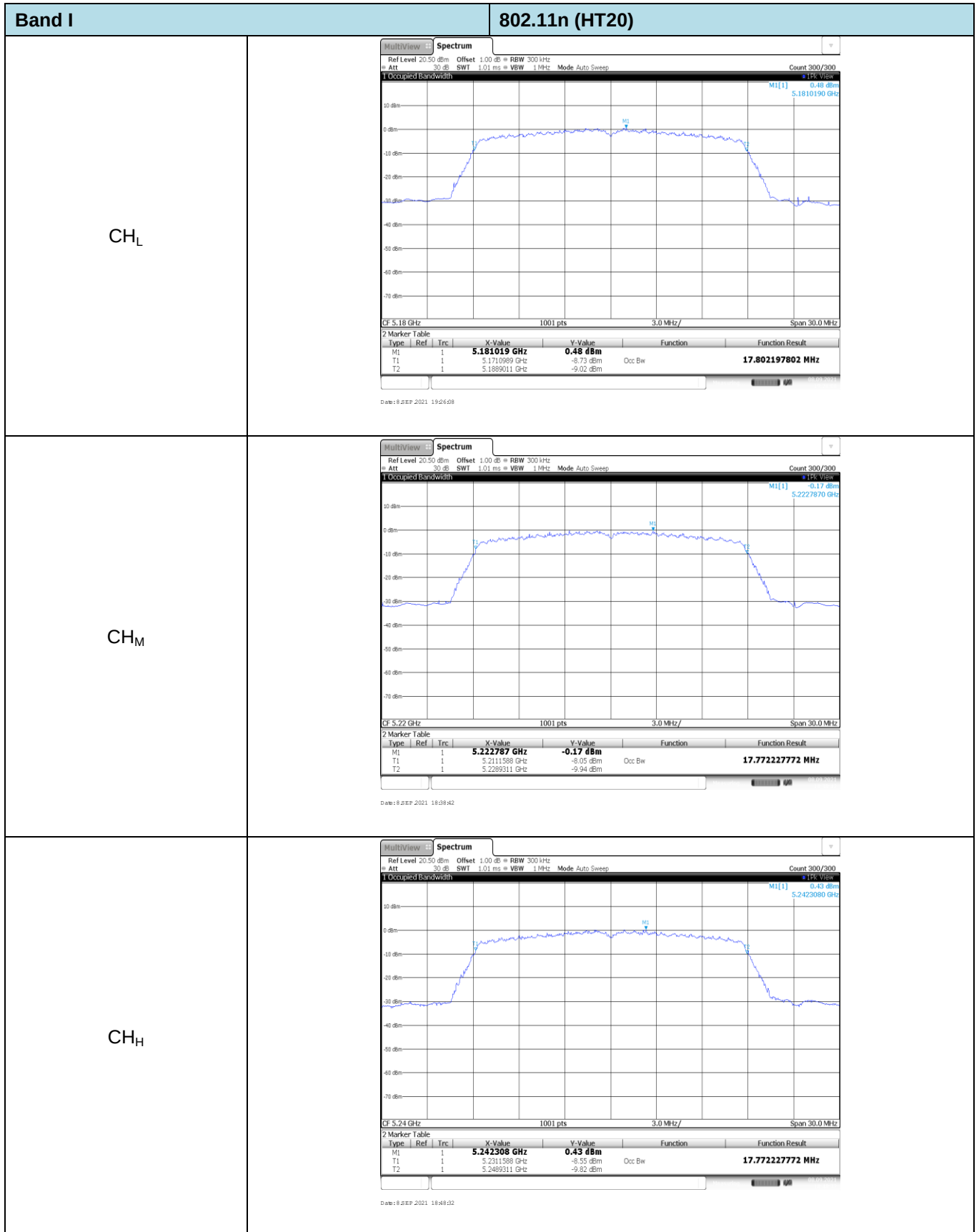


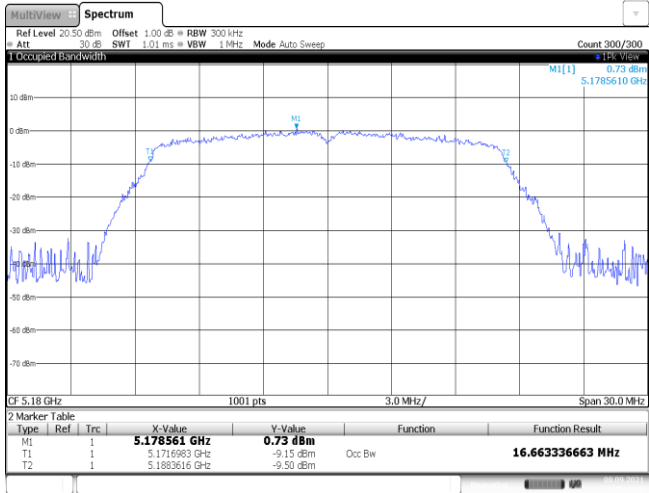
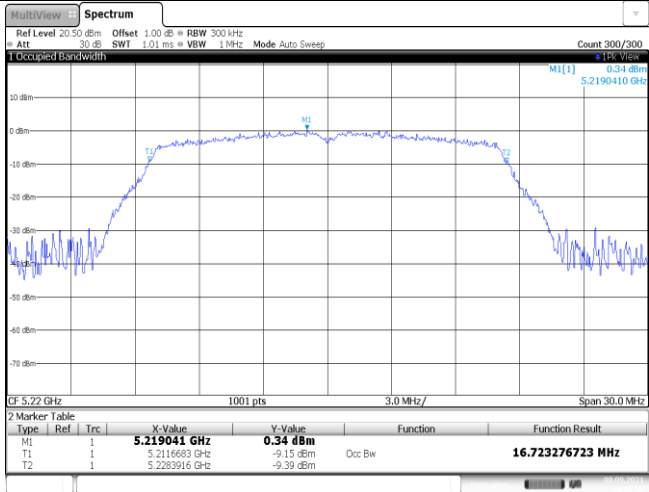
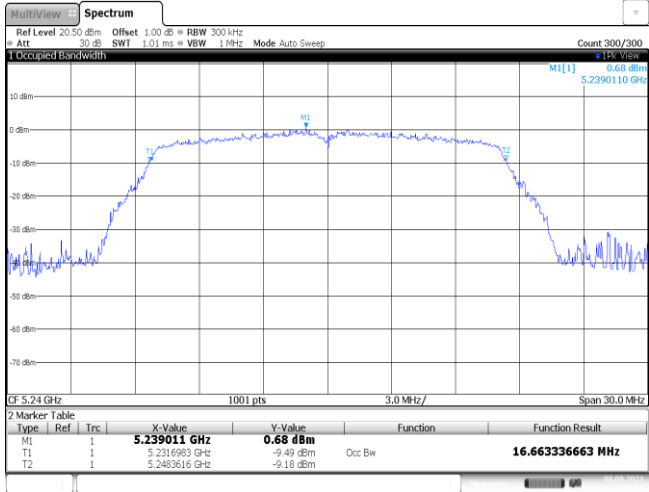


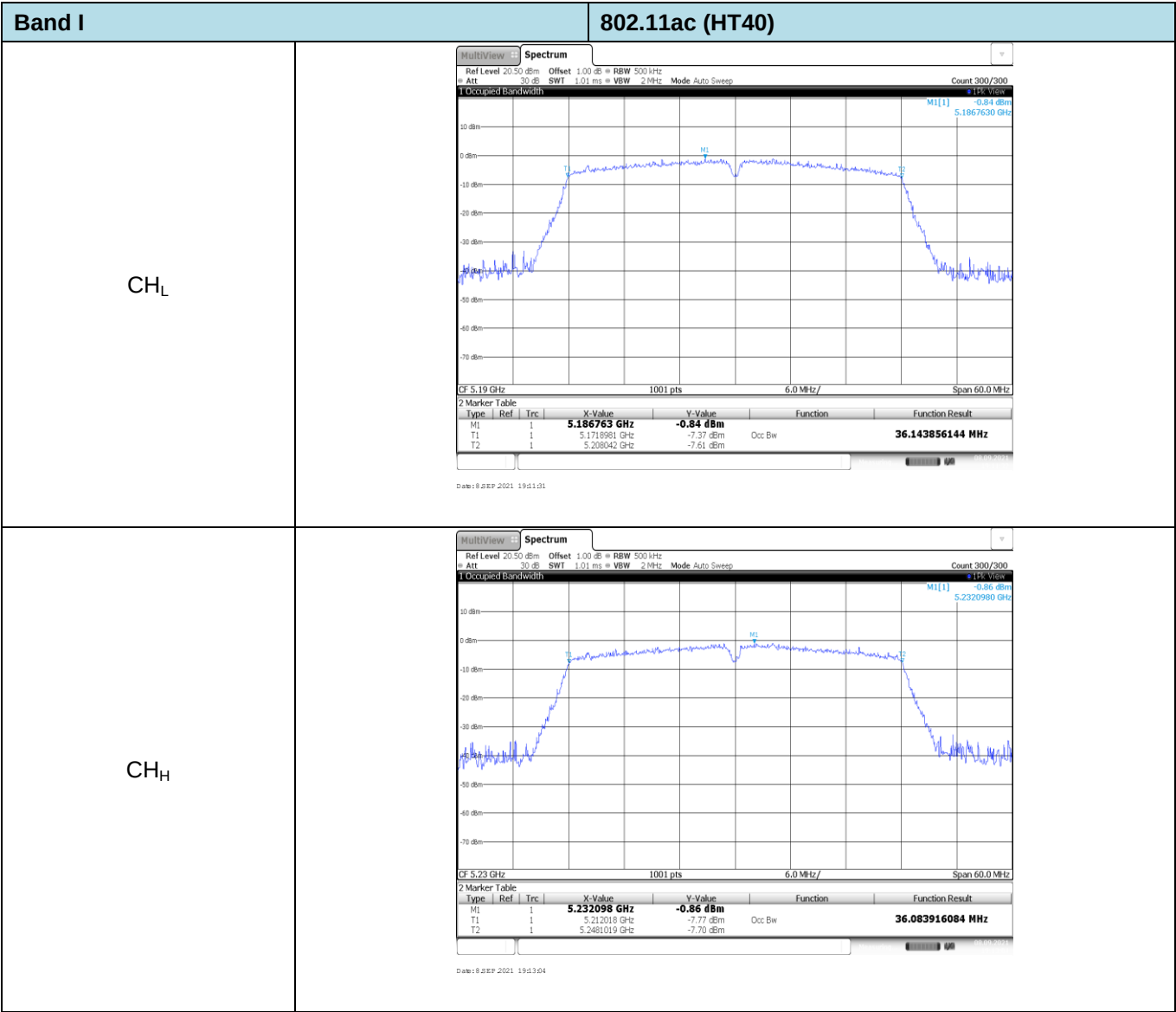
Appendix D: 99% Occupy bandwidth

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.68	Pass
			CH _M	17.71	
			CH _H	17.68	
		802.11n	CH _L	17.80	Pass
			CH _M	17.77	
			CH _H	17.77	
		802.11a	CH _L	16.66	Pass
			CH _M	16.72	
			CH _H	16.66	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.08	
		802.11n	CH _L	36.20	Pass
			CH _H	36.20	
	80	802.11ac	CH _M	75.29	Pass
IV	20	802.11ac	CH _L	17.68	Pass
			CH _M	17.68	
			CH _H	17.68	
		802.11n	CH _L	17.77	Pass
			CH _M	17.71	
			CH _H	17.80	
		802.11a	CH _L	16.66	Pass
			CH _M	16.66	
			CH _H	16.66	
	40	802.11ac	CH _L	36.08	Pass
			CH _H	36.08	
		802.11n	CH _L	36.12	Pass
			CH _H	36.12	
	80	802.11ac	CH _M	75.17	Pass



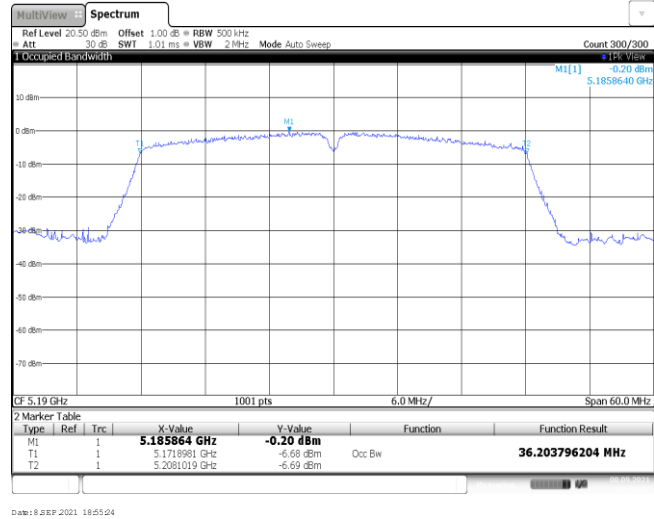
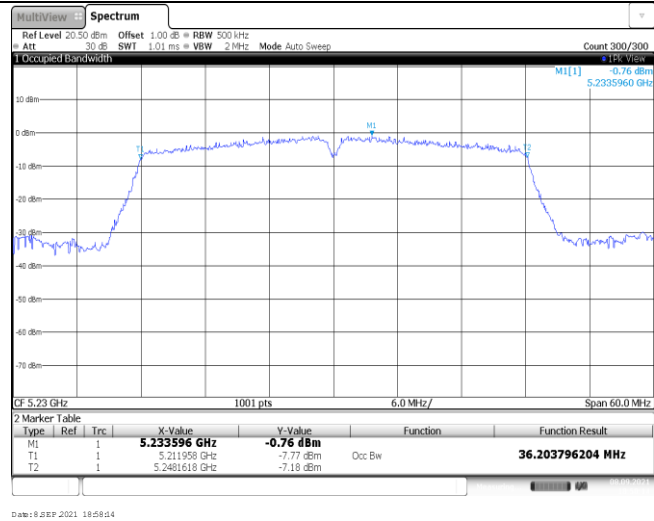


Band I	802.11a	
CH _L		 Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 Occupied Bandwidth M1 [1] 5.178561 GHz -9.15 dBm T1 5.178561 GHz T2 5.178561 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 5.178561 GHz -9.15 dBm T1 1 5.178561 GHz -9.15 dBm T2 1 5.178561 GHz -9.15 dBm Occ BW 16.663336663 MHz Date: 18 SEP 2021 18:46:38
CH _M		 Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 Occupied Bandwidth M1 [1] 5.219041 GHz -9.34 dBm T1 5.219041 GHz T2 5.219041 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 5.219041 GHz -9.34 dBm T1 1 5.219041 GHz -9.34 dBm T2 1 5.219041 GHz -9.39 dBm Occ BW 16.723276723 MHz Date: 18 SEP 2021 18:49:54
CH _H		 Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 Occupied Bandwidth M1 [1] 5.239011 GHz -9.68 dBm T1 5.239011 GHz T2 5.239011 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 5.239011 GHz -9.68 dBm T1 1 5.239011 GHz -9.49 dBm T2 1 5.2483616 GHz -9.18 dBm Occ BW 16.663336663 MHz Date: 18 SEP 2021 18:21:59



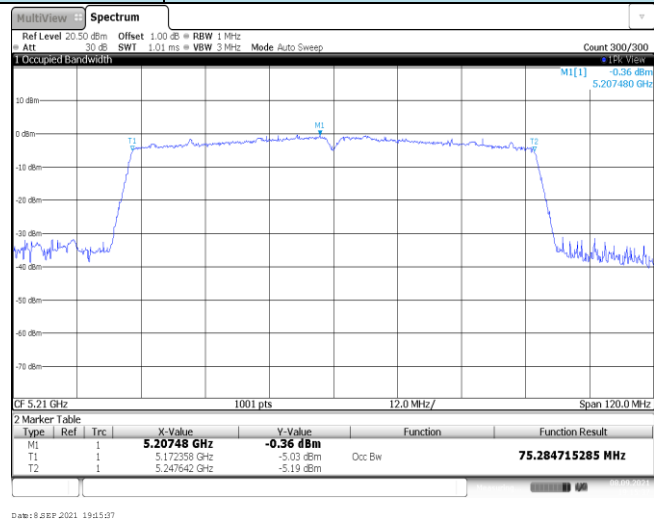
Band I

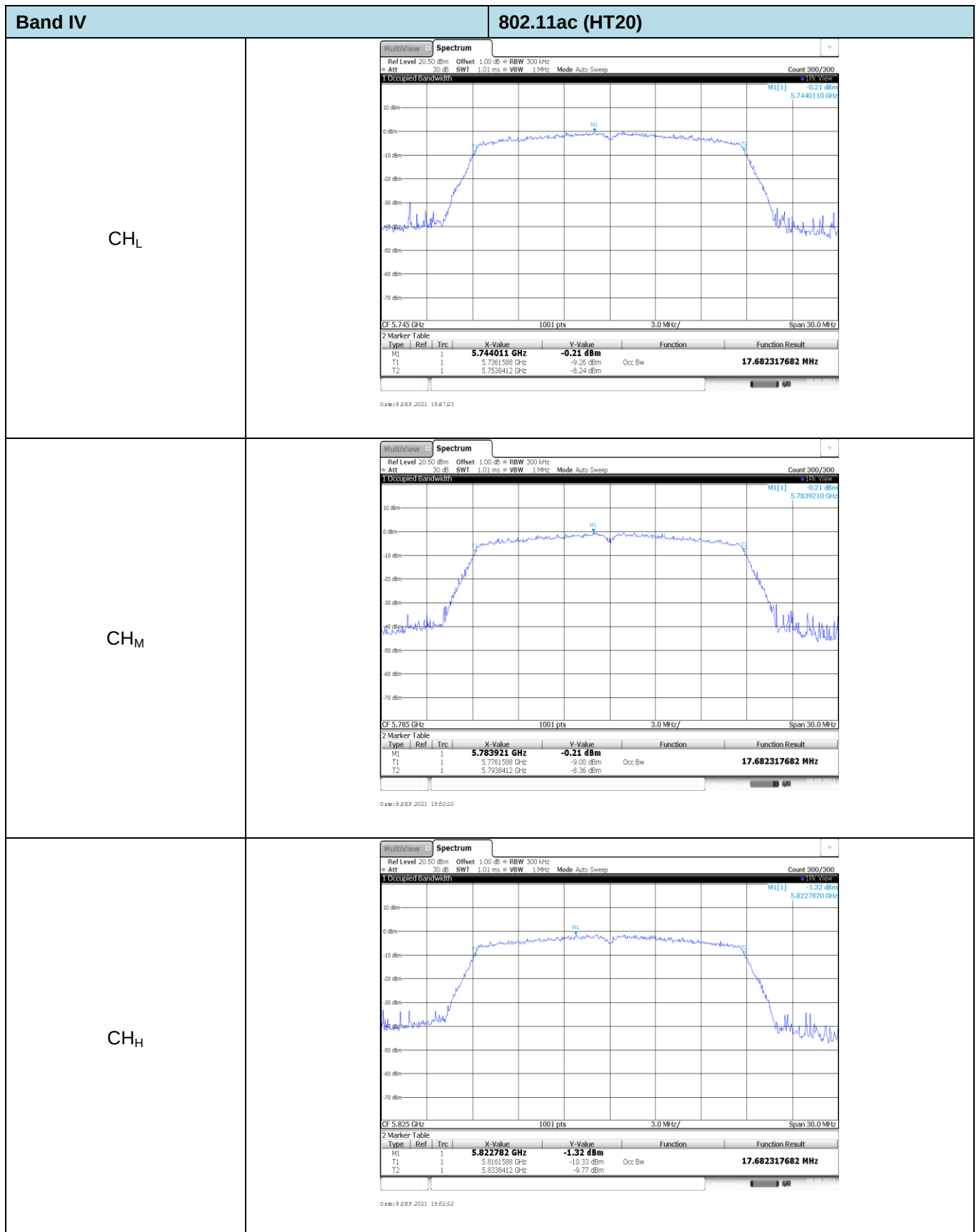
802.11n (HT40)

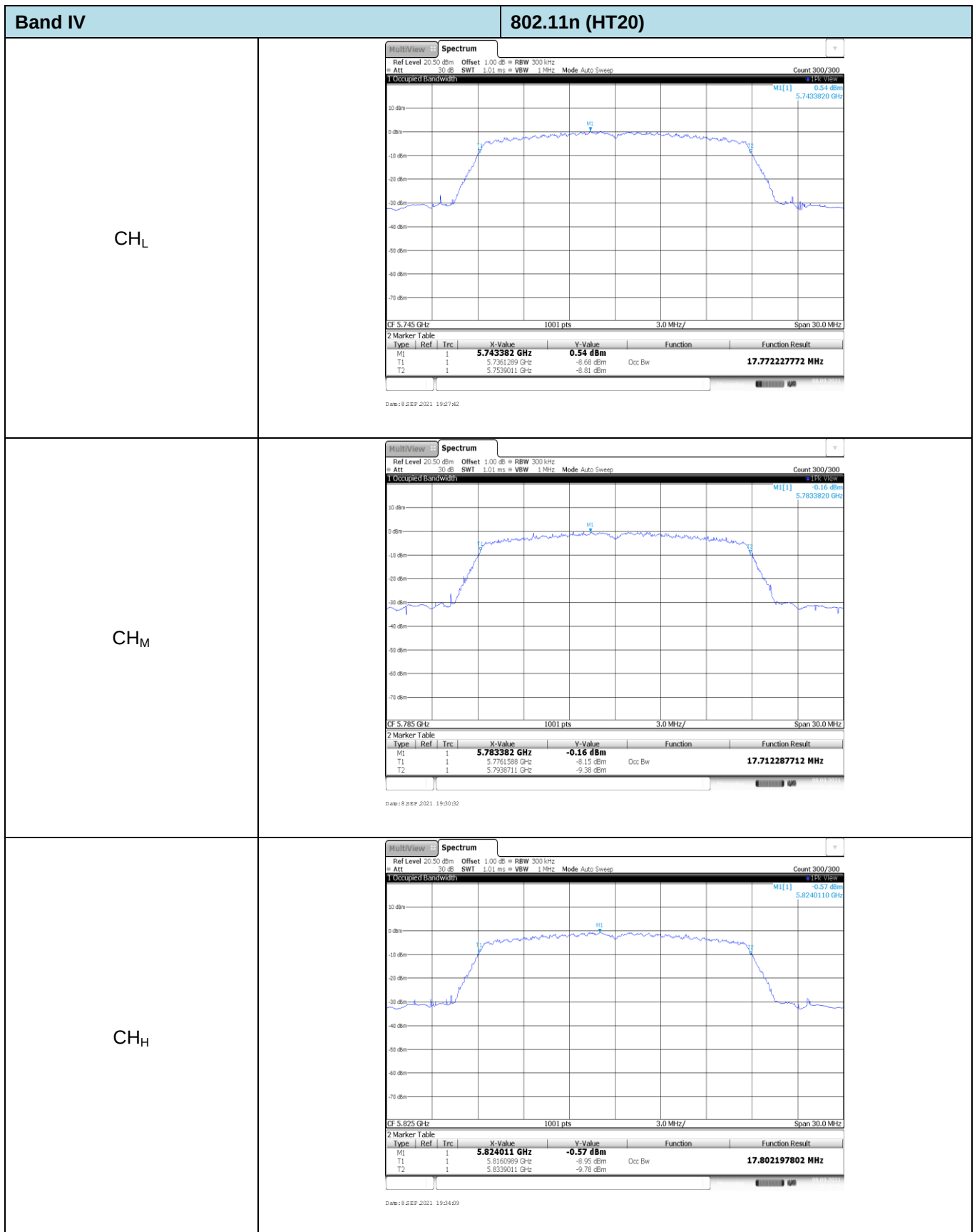
CH_LCH_H

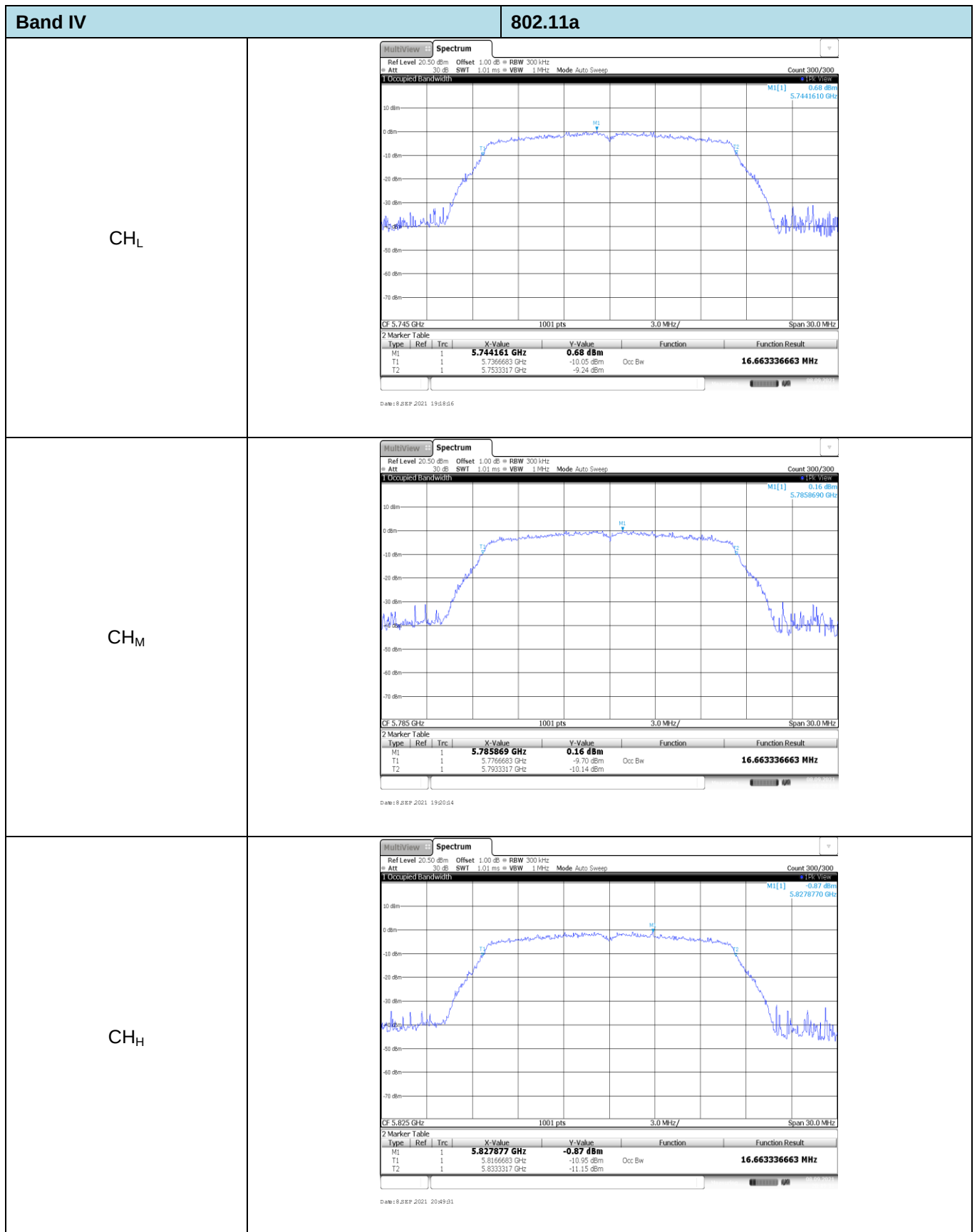
Band I

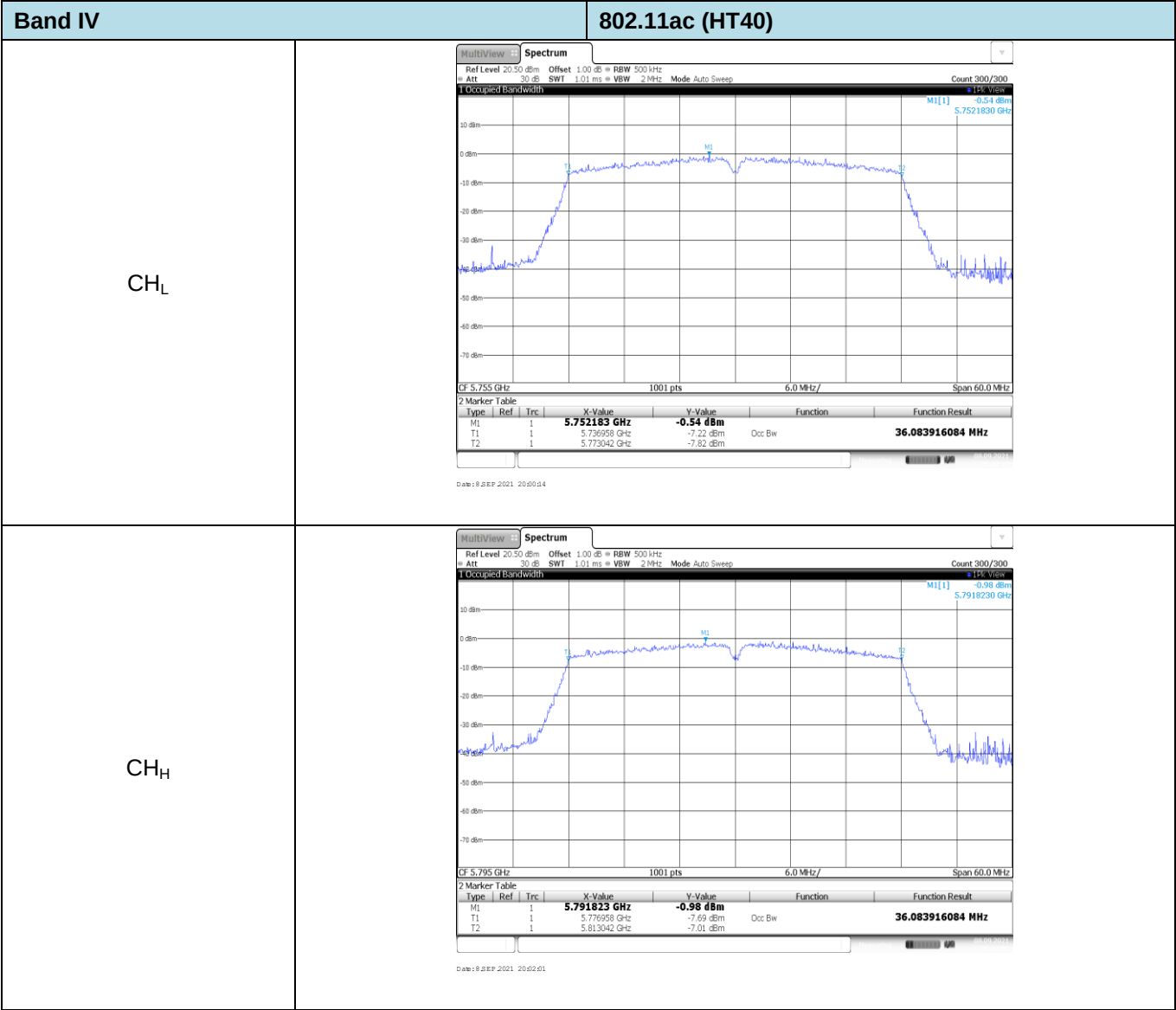
802.11ac (HT80)

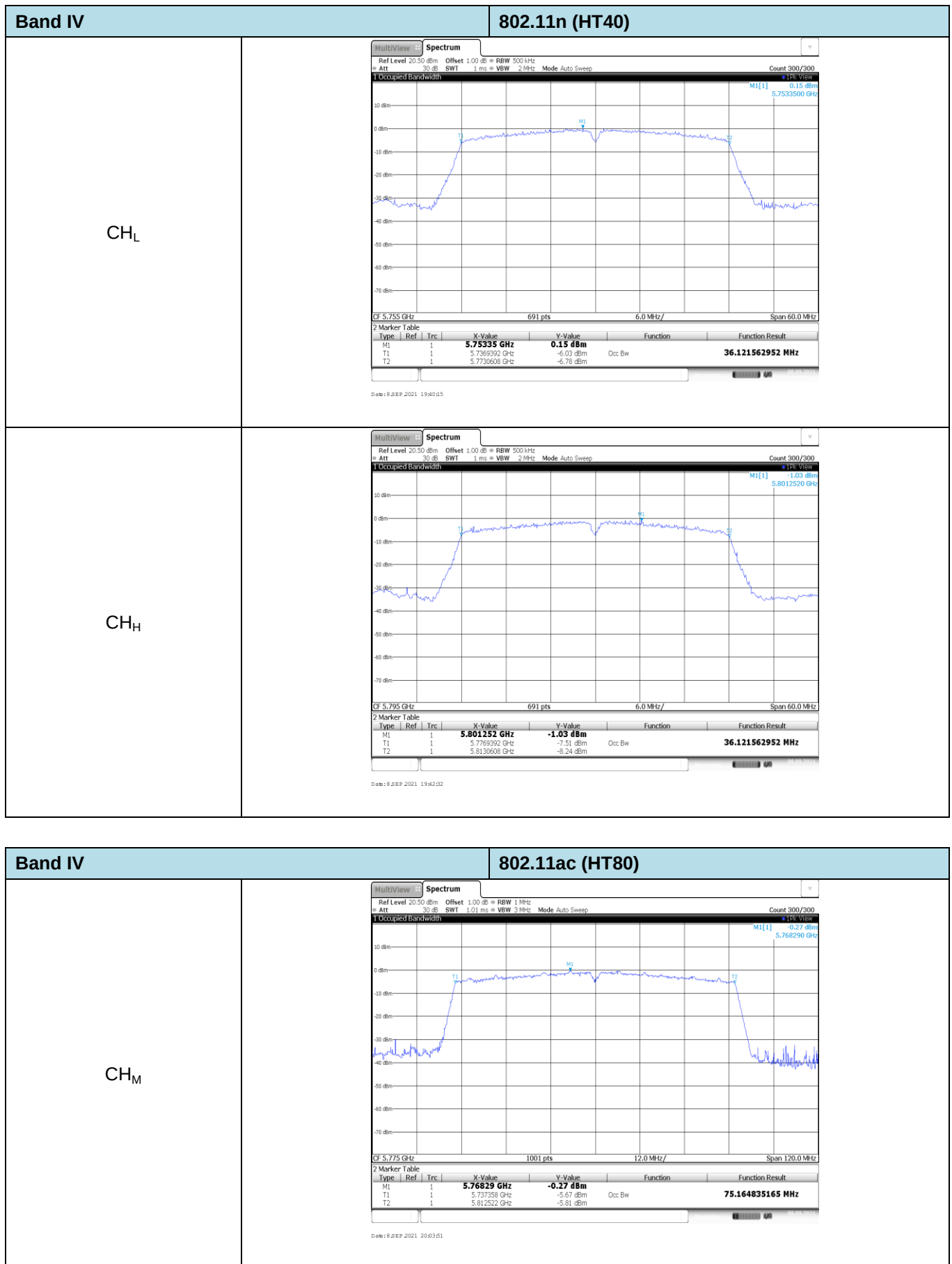
CH_M





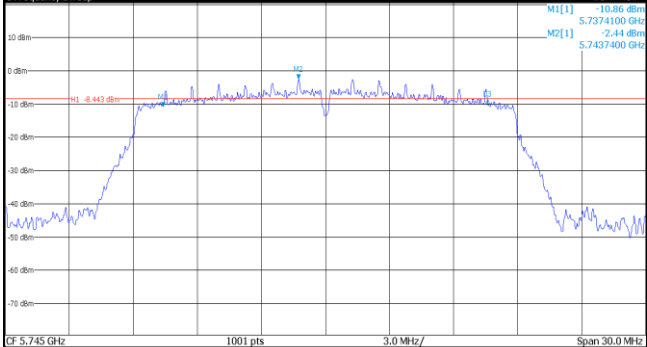
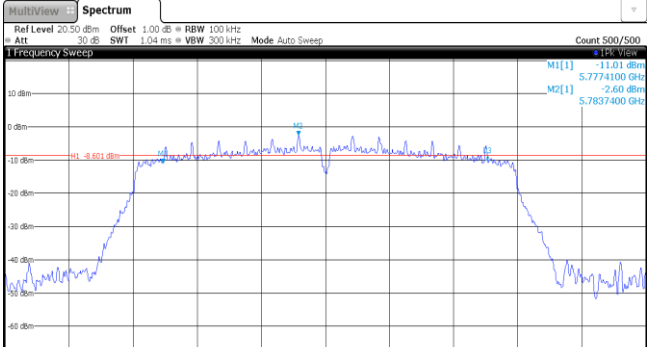
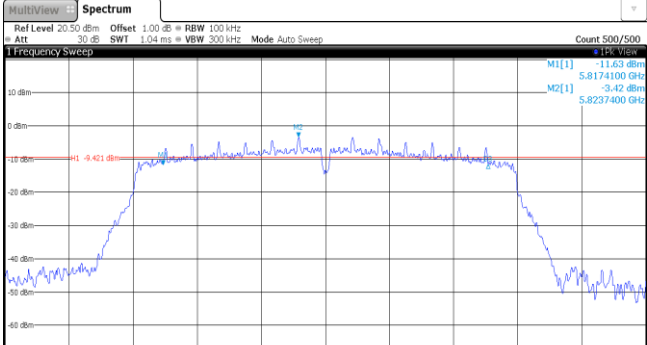






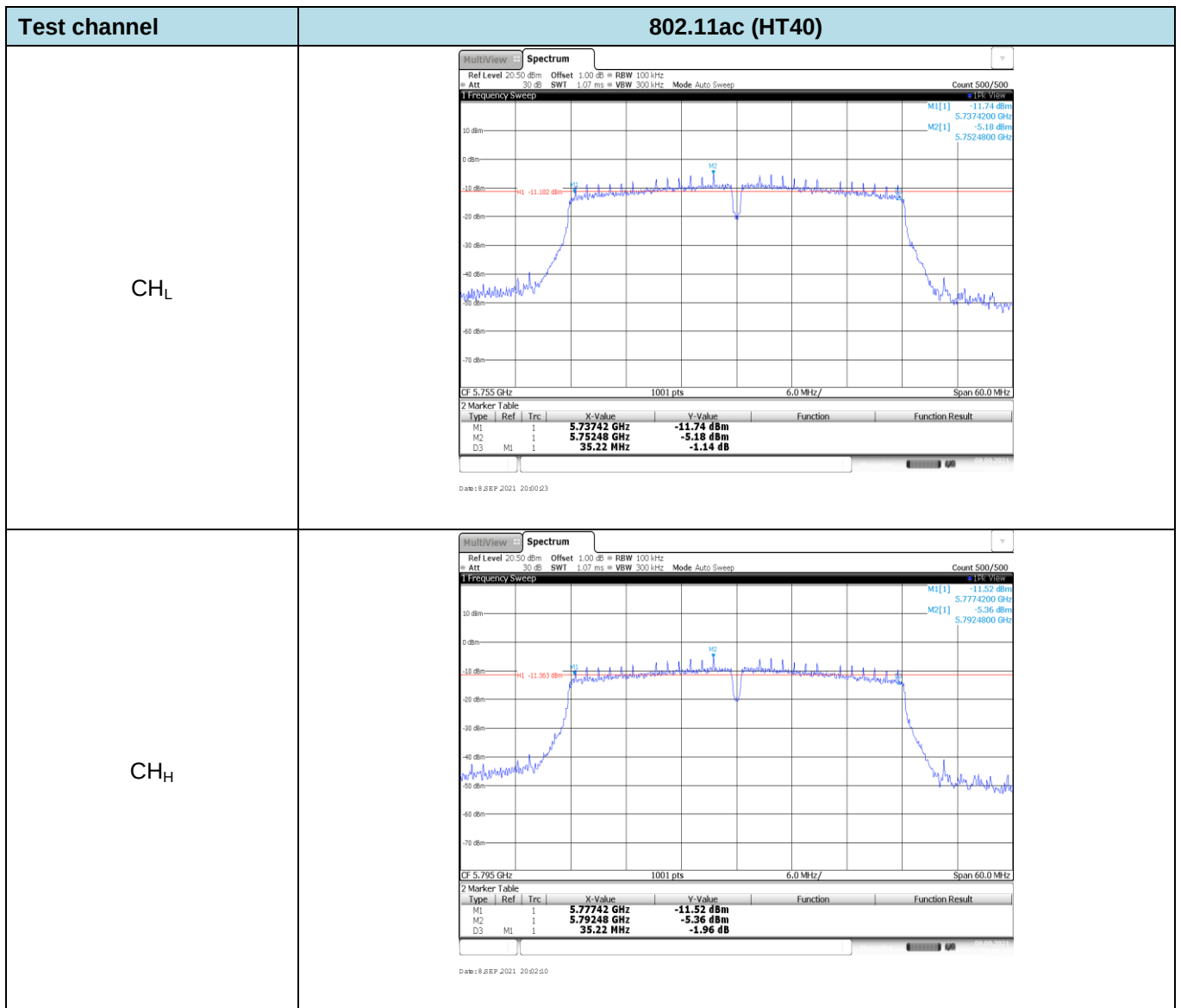
Appendix E: 6dB Bandwidth

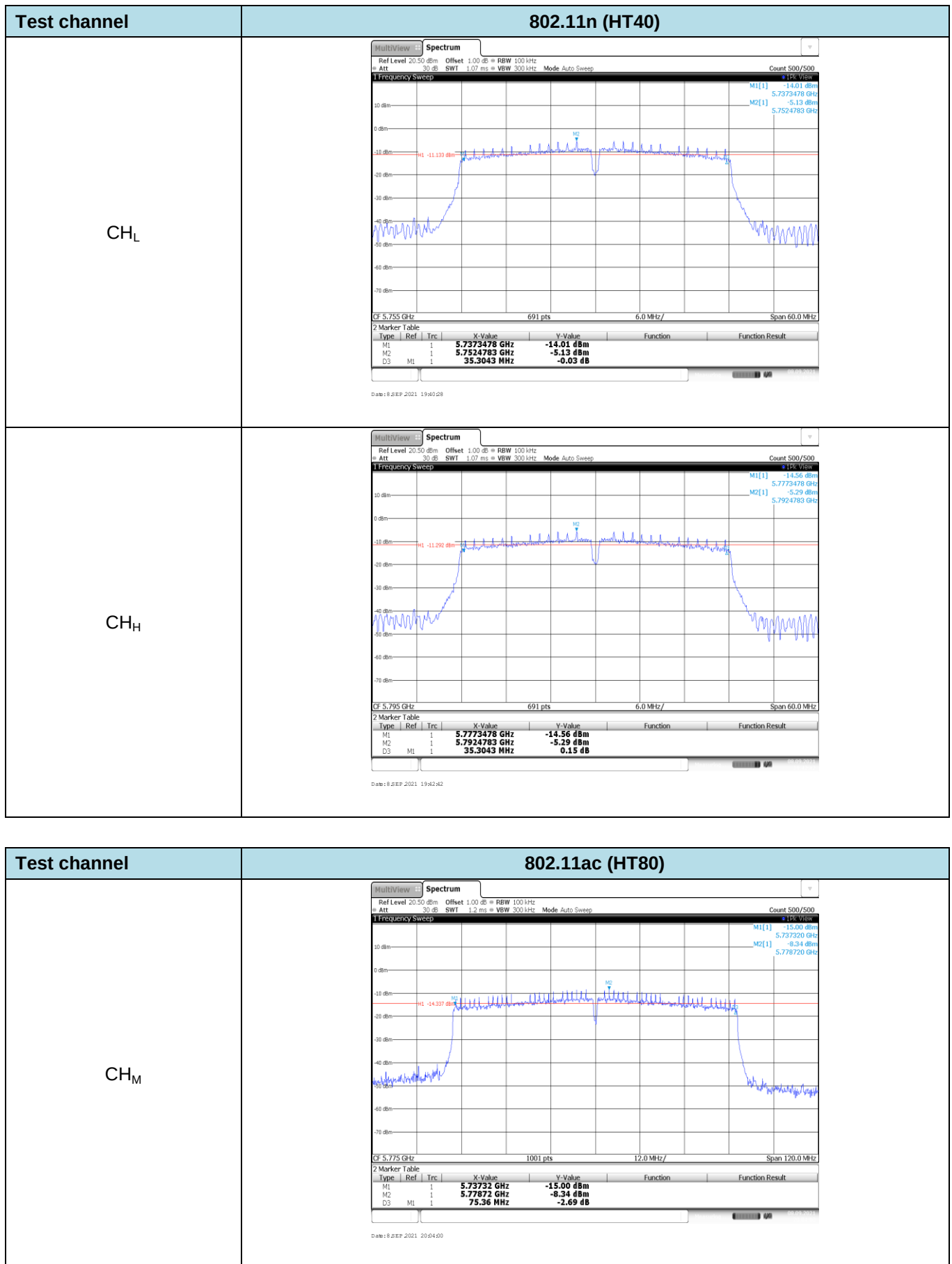
Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	15.18	Pass
			CH _M	15.18	
			CH _H	15.21	
		802.11n	CH _L	15.21	Pass
			CH _M	15.21	
			CH _H	15.18	
		802.11a	CH _L	15.21	Pass
			CH _M	15.21	
			CH _H	15.21	
	40	802.11ac	CH _L	35.22	Pass
			CH _H	35.22	
		802.11n	CH _L	35.30	Pass
			CH _H	35.30	
	80	802.11ac	CH _M	75.36	Pass

Test channel	802.11ac (HT20)																												
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm  CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.73741 GHz</td><td>-10.86 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.74374 GHz</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.18 MHz</td><td>2.36 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 19:47:02	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73741 GHz	-10.86 dBm			M2	1		5.74374 GHz	-2.44 dBm			D3	M1	1	15.18 MHz	2.36 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73741 GHz	-10.86 dBm																									
M2	1		5.74374 GHz	-2.44 dBm																									
D3	M1	1	15.18 MHz	2.36 dB																									
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm  CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.77741 GHz</td><td>-11.01 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.78374 GHz</td><td>-2.60 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.18 MHz</td><td>2.33 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 19:50:20	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.77741 GHz	-11.01 dBm			M2	1		5.78374 GHz	-2.60 dBm			D3	M1	1	15.18 MHz	2.33 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.77741 GHz	-11.01 dBm																									
M2	1		5.78374 GHz	-2.60 dBm																									
D3	M1	1	15.18 MHz	2.33 dB																									
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm  CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.81741 GHz</td><td>-11.63 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.82374 GHz</td><td>-3.42 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.21 MHz</td><td>0.05 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 19:52:22	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.81741 GHz	-11.63 dBm			M2	1		5.82374 GHz	-3.42 dBm			D3	M1	1	15.21 MHz	0.05 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.81741 GHz	-11.63 dBm																									
M2	1		5.82374 GHz	-3.42 dBm																									
D3	M1	1	15.21 MHz	0.05 dB																									

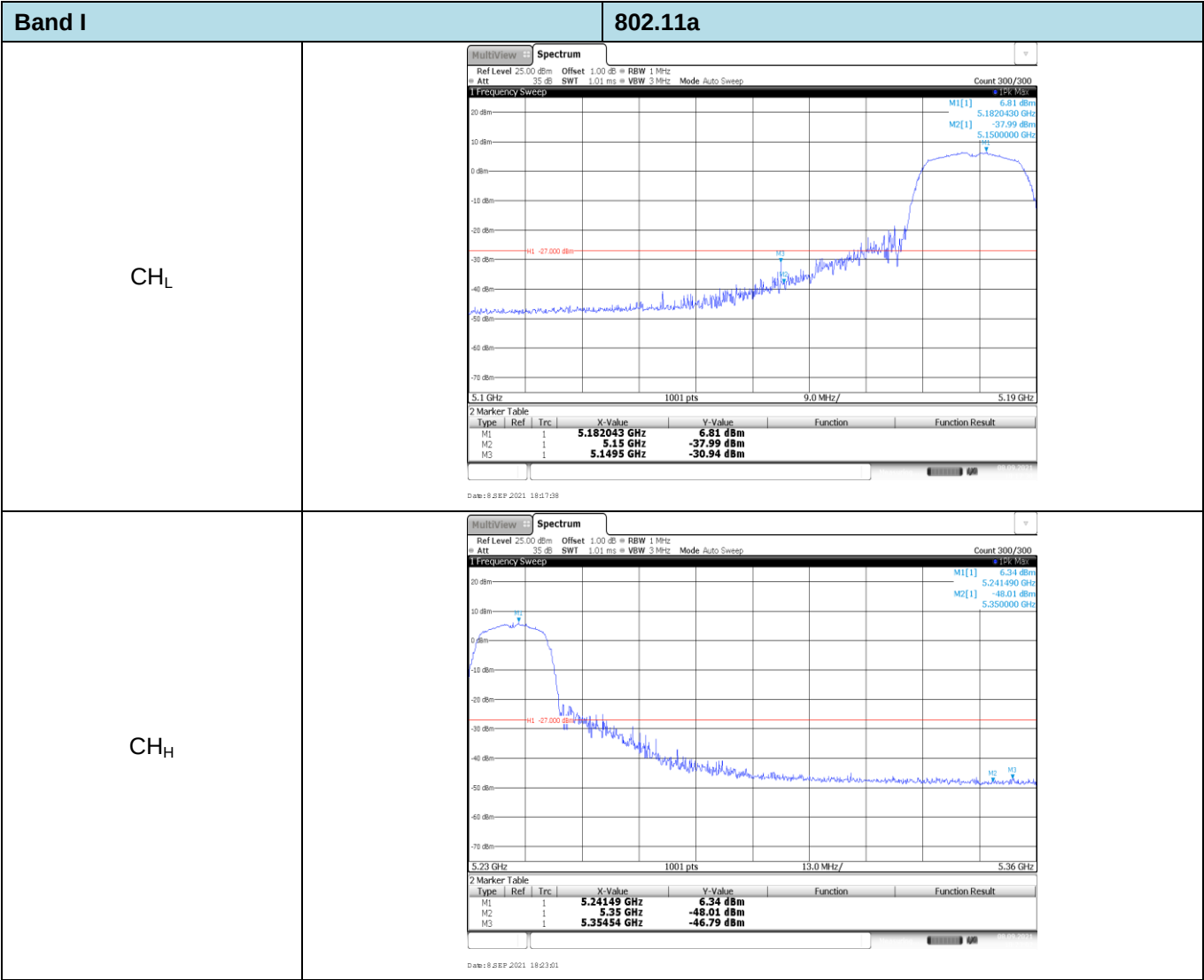
Test channel	802.11n (HT20)
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep

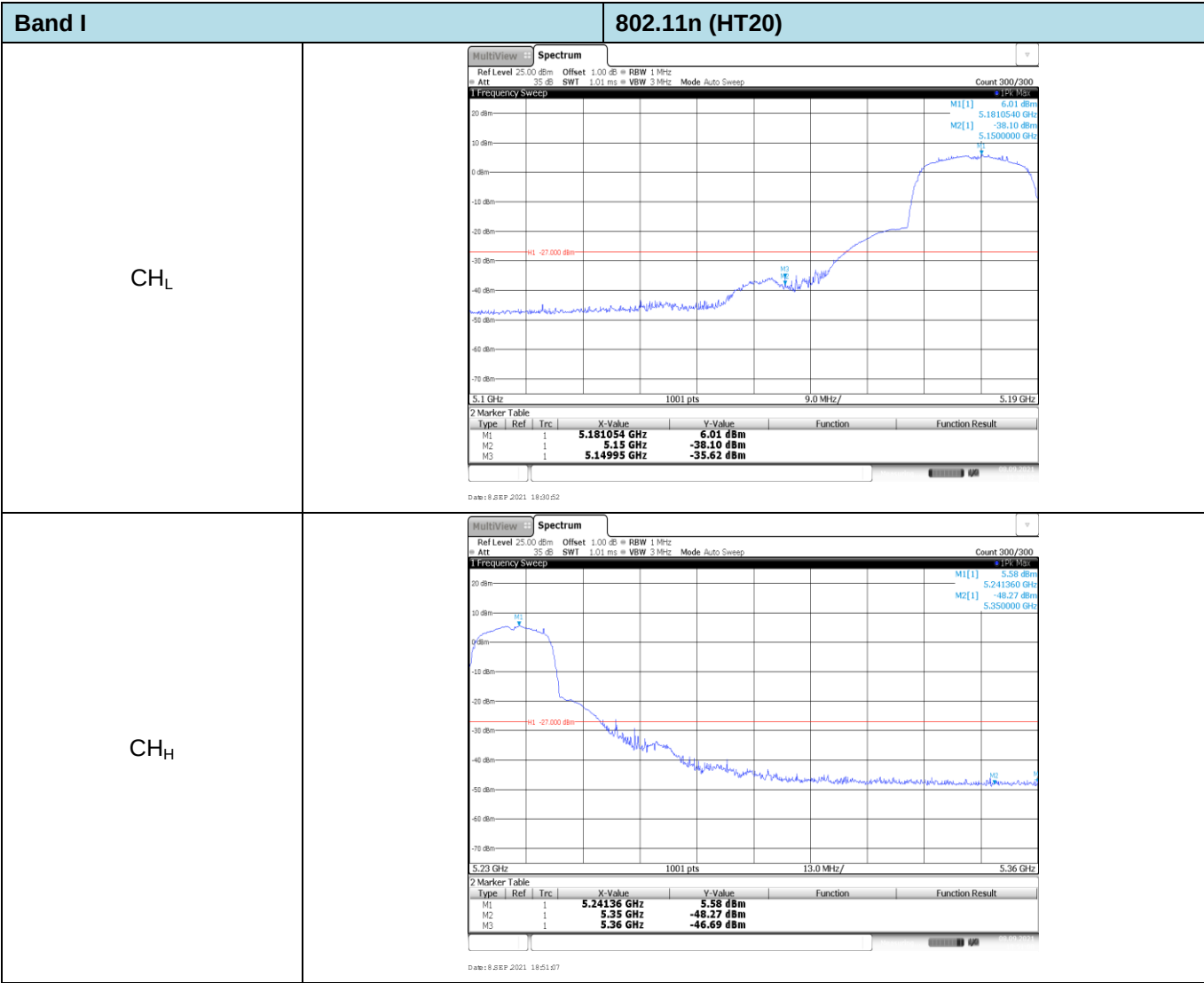
Test channel	802.11a																												
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -10.51 dBm M2[1] 5.7374100 GHz M3[1] -2.37 dBm M4[1] 5.7437400 GHz CF 5.745 GHz 1001 pts 3.0 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>5.73741 GHz</td><td>-10.51 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.74374 GHz</td><td>-2.37 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.21 MHz</td><td>0.44 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 19:18:25	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73741 GHz	-10.51 dBm			M2	1		5.74374 GHz	-2.37 dBm			D3	M1	1	15.21 MHz	0.44 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73741 GHz	-10.51 dBm																									
M2	1		5.74374 GHz	-2.37 dBm																									
D3	M1	1	15.21 MHz	0.44 dB																									
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -10.77 dBm M2[1] 5.7774100 GHz M3[1] -2.72 dBm M4[1] 5.7862600 GHz CF 5.785 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>5.77741 GHz</td><td>-10.77 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.78626 GHz</td><td>-2.72 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.21 MHz</td><td>-0.10 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 19:20:23	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.77741 GHz	-10.77 dBm			M2	1		5.78626 GHz	-2.72 dBm			D3	M1	1	15.21 MHz	-0.10 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.77741 GHz	-10.77 dBm																									
M2	1		5.78626 GHz	-2.72 dBm																									
D3	M1	1	15.21 MHz	-0.10 dB																									
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -11.45 dBm M2[1] 5.8174100 GHz M3[1] -3.56 dBm M4[1] 5.8237400 GHz CF 5.825 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>5.81741 GHz</td><td>-11.45 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.82374 GHz</td><td>-3.56 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.21 MHz</td><td>-0.55 dB</td><td></td><td></td></tr></table> Date: 8 SEP 2021 19:21:56	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.81741 GHz	-11.45 dBm			M2	1		5.82374 GHz	-3.56 dBm			D3	M1	1	15.21 MHz	-0.55 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.81741 GHz	-11.45 dBm																									
M2	1		5.82374 GHz	-3.56 dBm																									
D3	M1	1	15.21 MHz	-0.55 dB																									

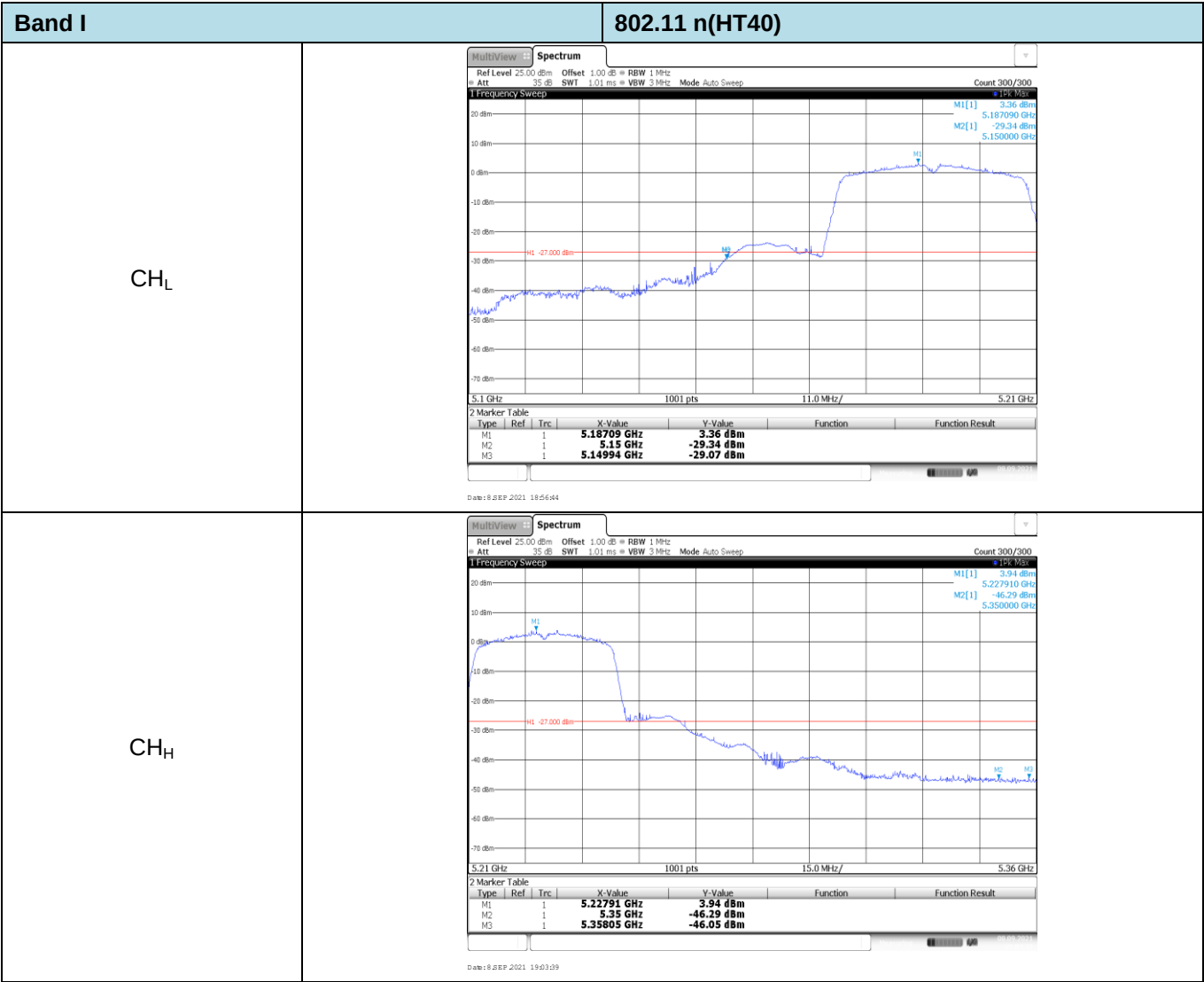


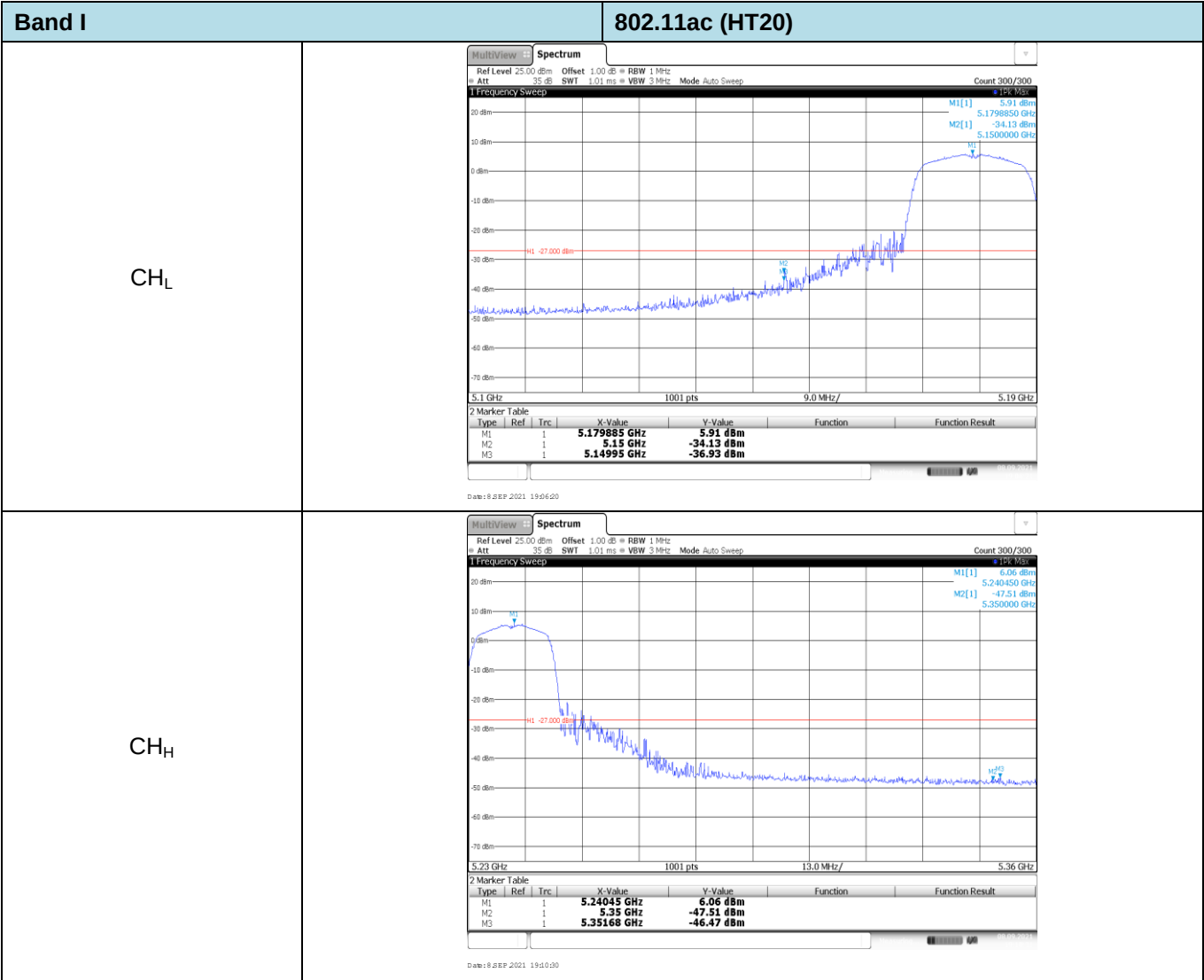


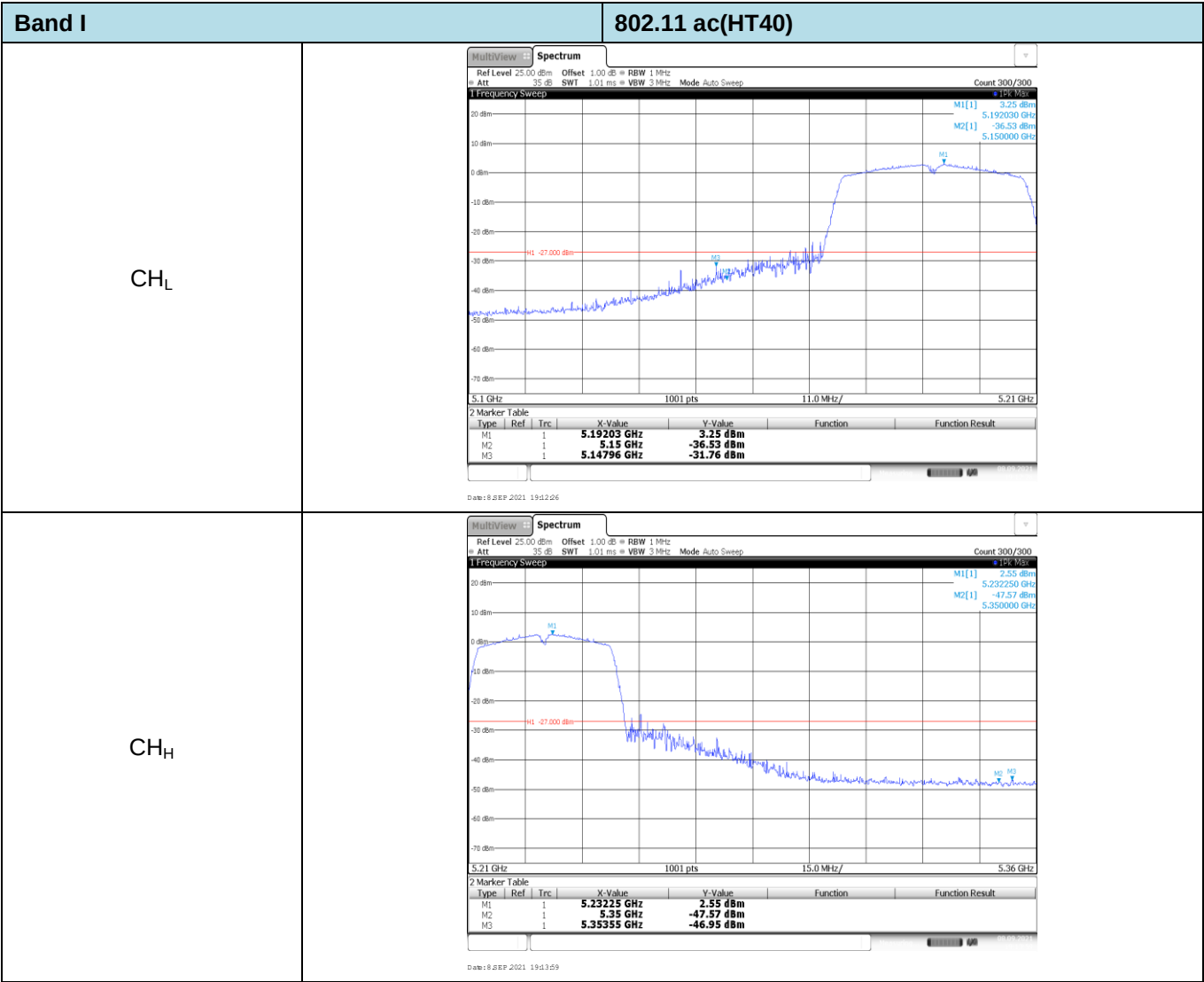
Appendix F: Band edge

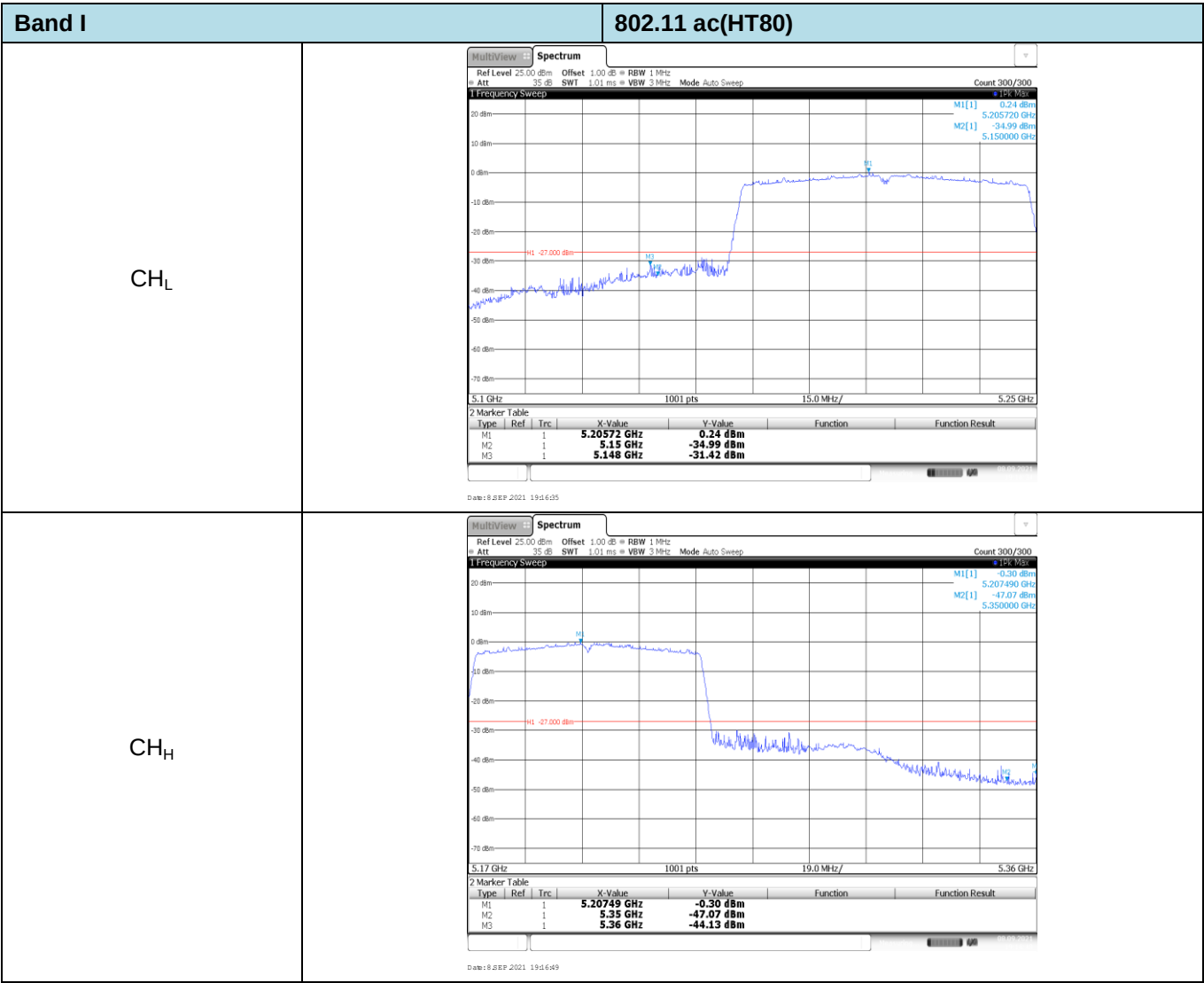


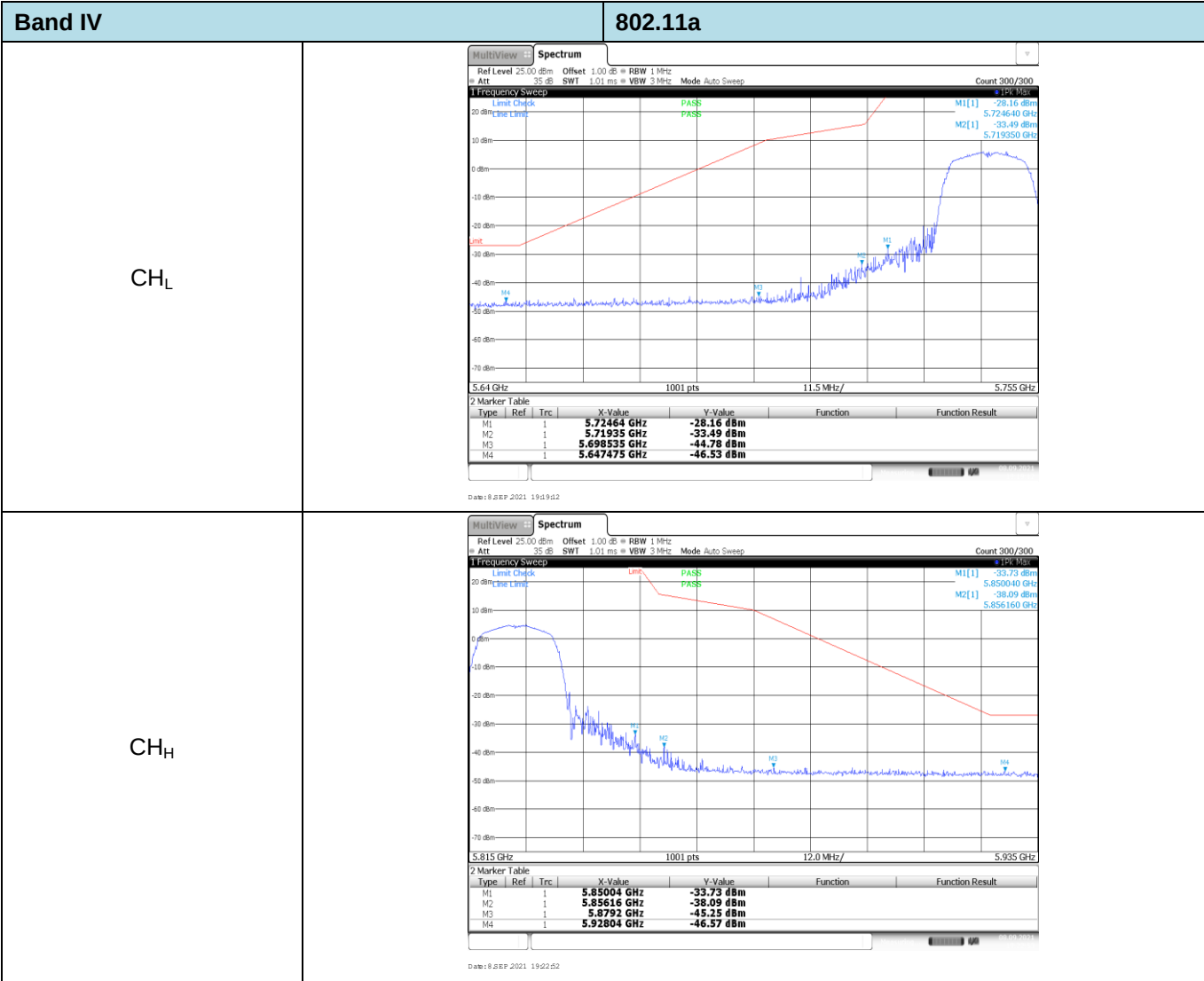


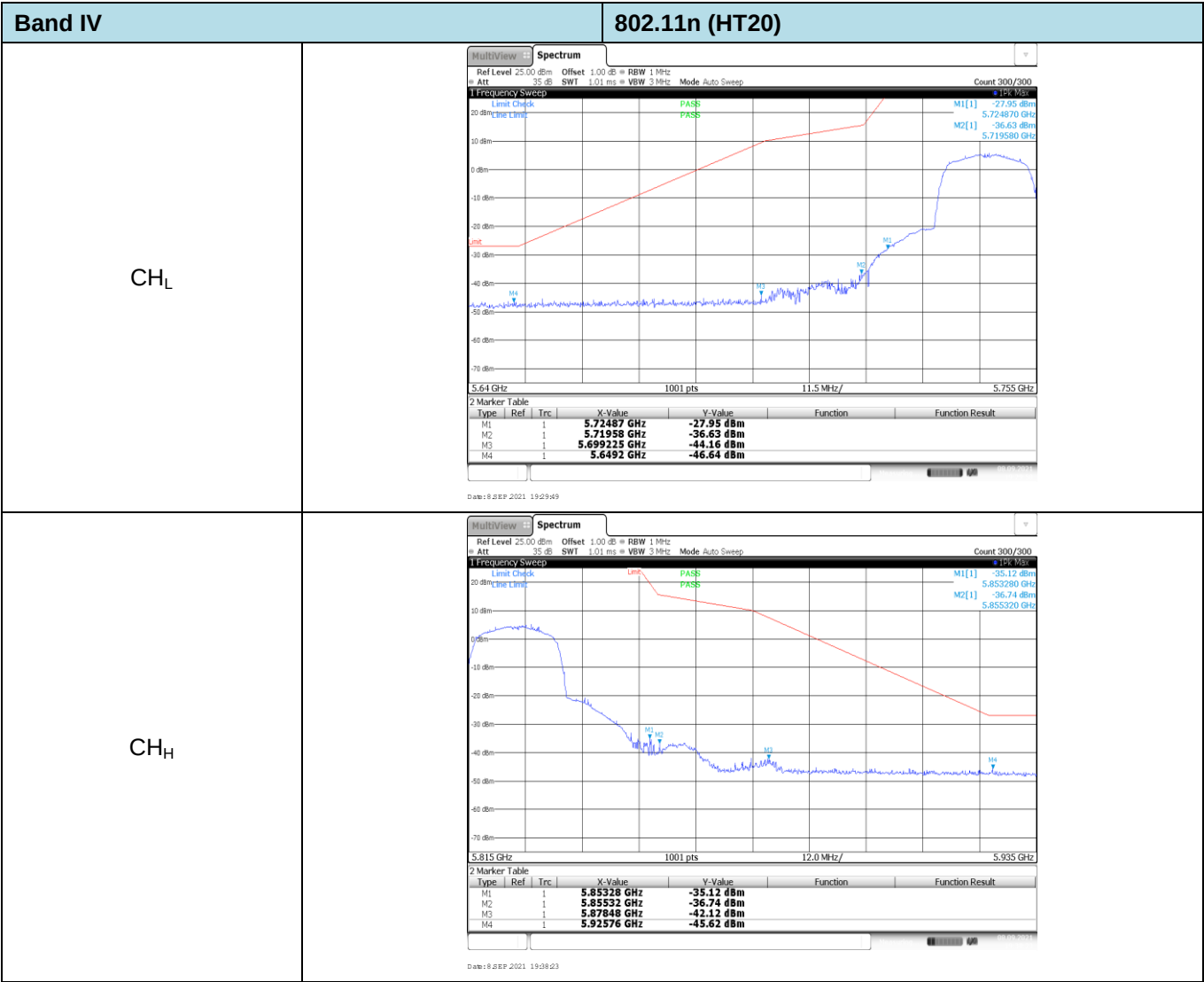


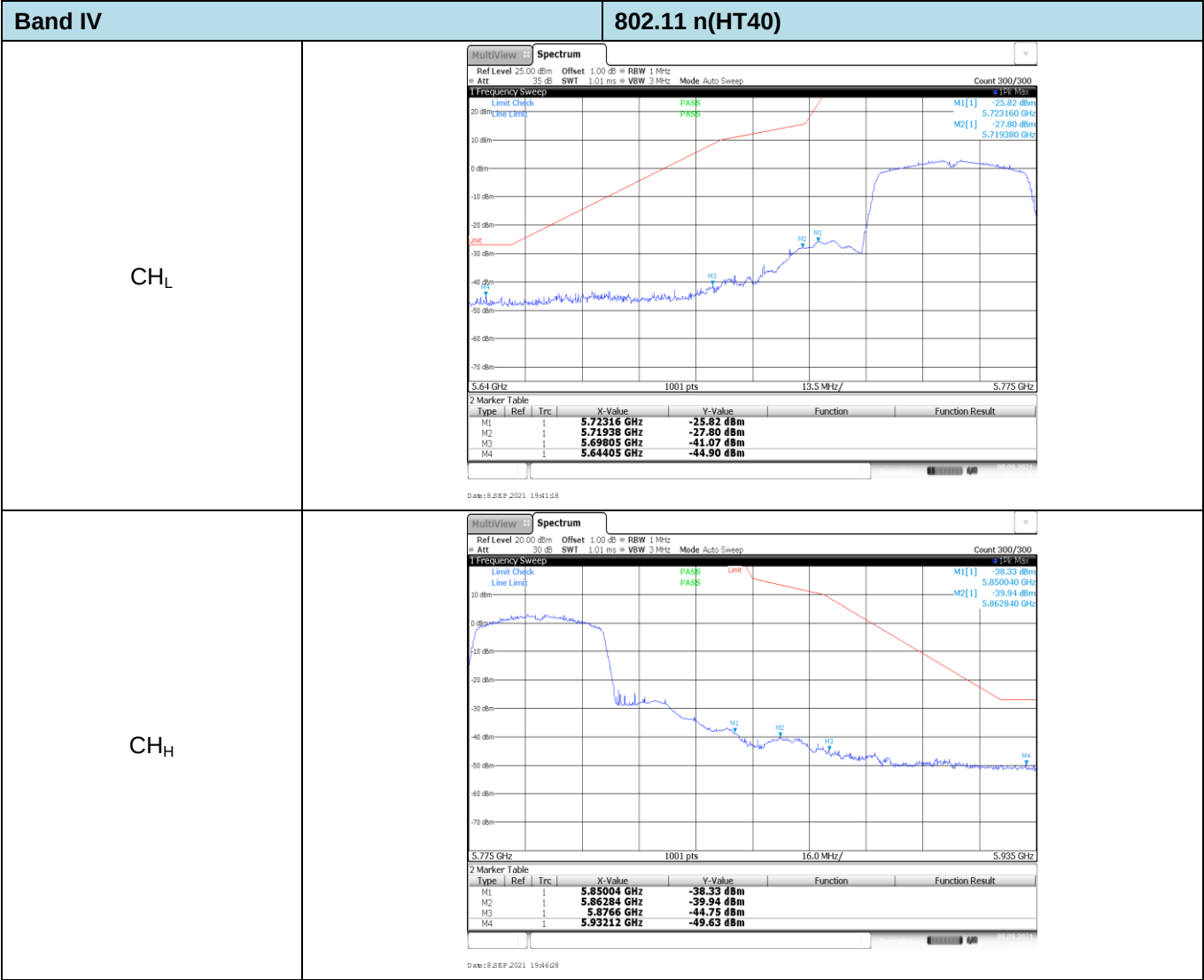


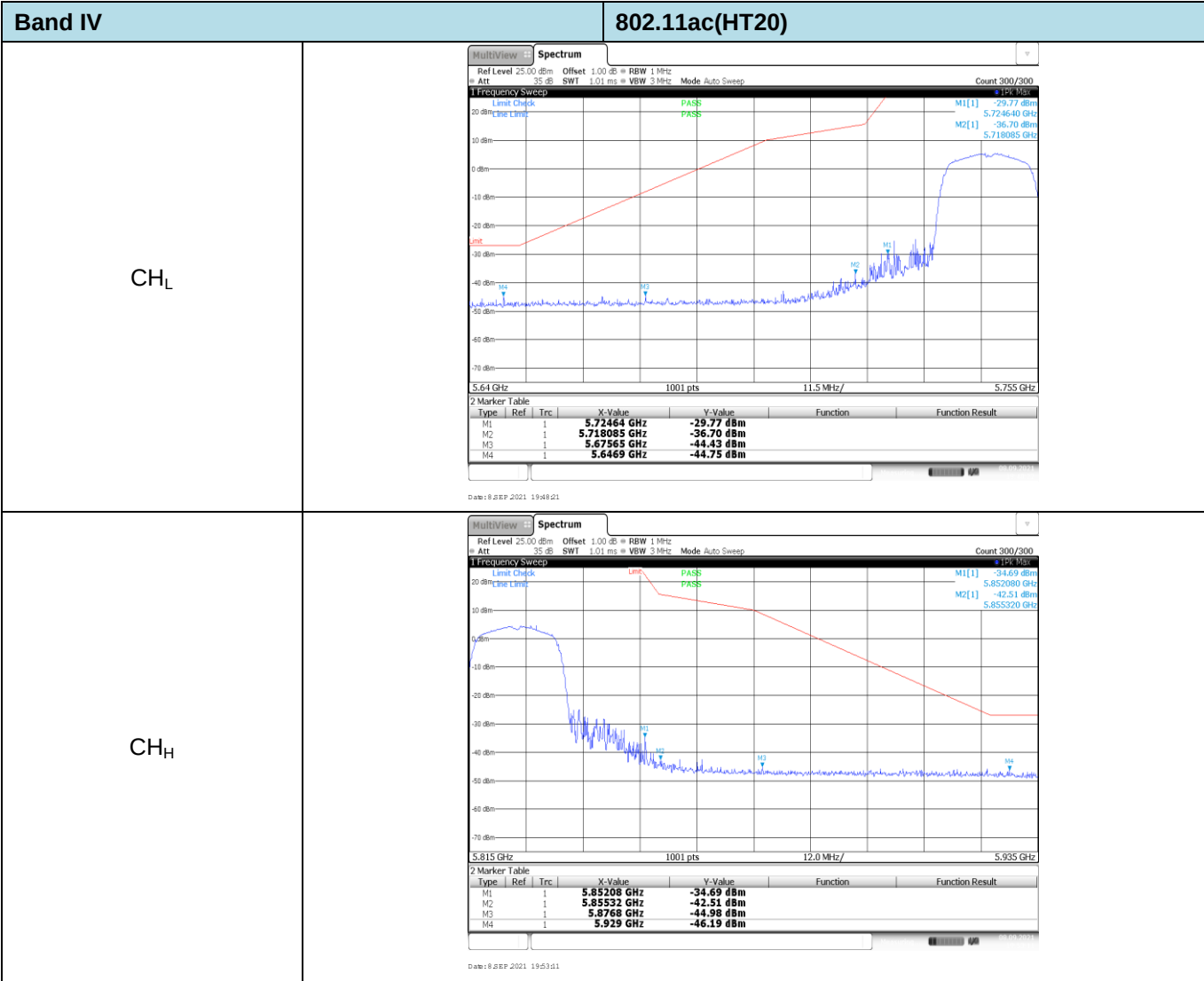


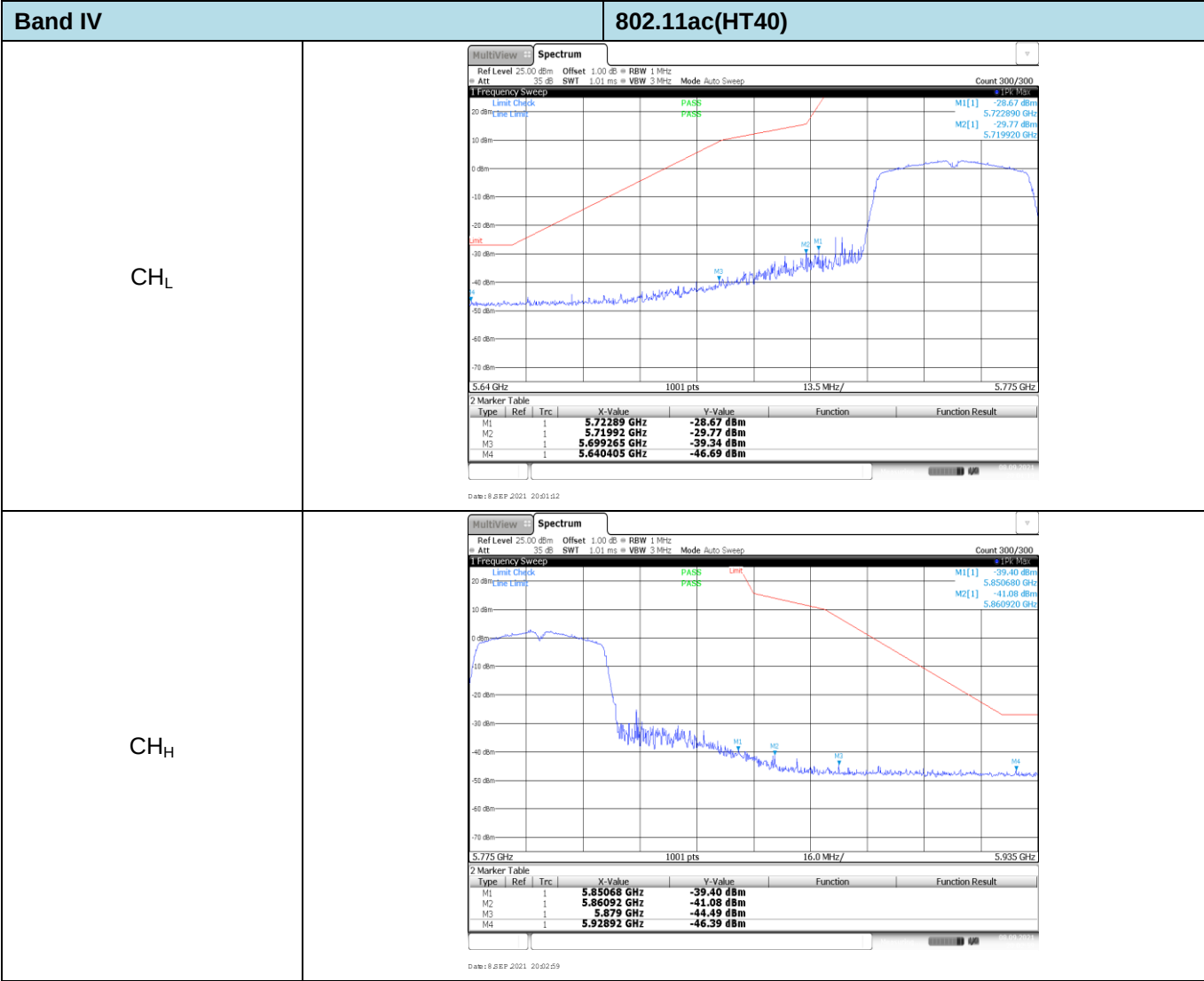


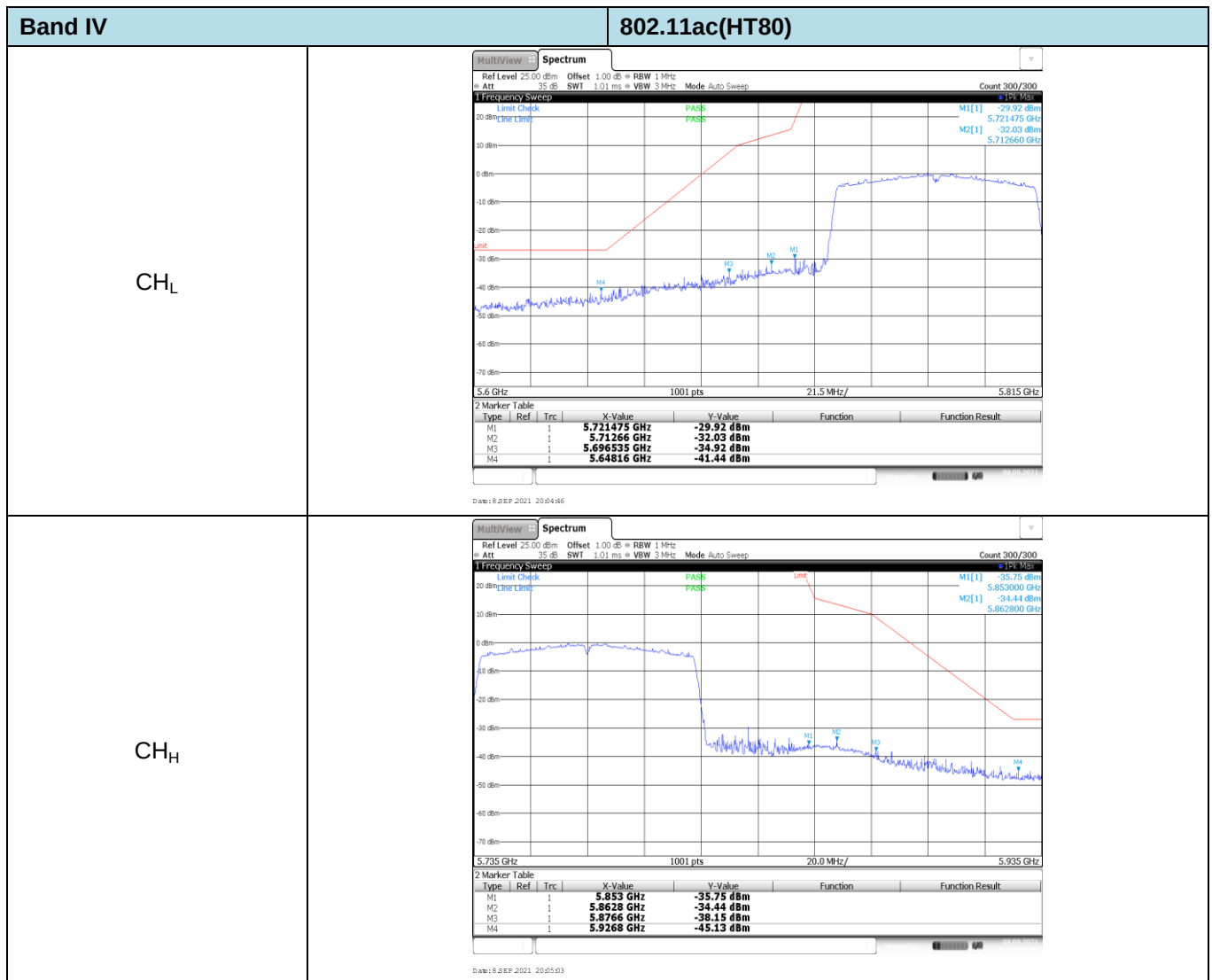












Appendix G: Frequency stability**Voltage VS Frequency stability**

Band: I			Test Frequency: 5180.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	15000.00	2.89575	PASS
T _N	V _N	15000.00	2.89575	PASS
T _N	V _H	15000.00	2.89575	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	20000.00	3.48129	PASS
T _N	V _N	20000.00	3.48129	PASS
T _N	V _H	19000.00	3.30722	PASS

Temperature VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	14000.00	2.70270	PASS
V _N	-10	14000.00	2.70270	PASS
V _N	0	14000.00	2.70270	PASS
V _N	10	14000.00	2.70270	PASS
V _N	20	14000.00	2.70270	PASS
V _N	30	14000.00	2.70270	PASS
V _N	40	14000.00	2.70270	PASS
V _N	50	14000.00	2.70270	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	18000.00	3.13316	PASS
V _N	-10	18000.00	3.13316	PASS
V _N	0	17000.00	2.95910	PASS
V _N	10	17000.00	2.95910	PASS
V _N	20	17000.00	2.95910	PASS
V _N	30	16000.00	2.78503	PASS
V _N	40	16000.00	2.78503	PASS
V _N	50	16000.00	2.78503	PASS

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