

APPENDIX REPORT

Project No.	SHT2109040108EW	Radio Specification	WIFI 5G
Test sample No.	YPHT21070035015	Model No.	AM501
Start test date	2021-08-18	Finish date	2021-10-30
Temperature	26.1°C	Humidity	34%
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	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	15.04	97.21	0.12	15.16	24.00	Pass
			CH _M	15.24	97.21	0.12	15.36		
			CH _H	15.24	97.21	0.12	15.36		
		802.11n	CH _L	14.81	97.18	0.12	14.93	24.00	Pass
			CH _M	14.95	97.18	0.12	15.07		
			CH _H	15.02	97.18	0.12	15.14		
		802.11a	CH _L	14.86	97.36	0.12	14.98	24.00	Pass
			CH _M	14.95	97.36	0.12	15.07		
			CH _H	15.05	97.36	0.12	15.17		
	40	802.11ac	CH _L	11.05	94.68	0.24	11.29	24.00	Pass
			CH _H	15.06	94.68	0.24	15.30		
		802.11n	CH _L	10.92	94.74	0.23	11.15	24.00	Pass
			CH _H	15.10	94.65	0.24	15.34		
	80	802.11ac	CH _M	11.23	89.82	0.47	11.70	24.00	Pass
II	20	802.11ac	CH _L	15.39	97.21	0.12	15.51	24.00	Pass
			CH _M	15.44	97.11	0.13	15.57		
			CH _H	15.49	97.21	0.12	15.61		
		802.11n	CH _L	15.07	97.18	0.12	15.19	24.00	Pass
			CH _M	15.06	97.18	0.12	15.18		
			CH _H	15.23	97.18	0.12	15.35		
		802.11a	CH _L	15.21	97.36	0.12	15.33	24.00	Pass
			CH _M	15.25	97.28	0.12	15.37		
			CH _H	15.23	97.36	0.12	15.35		
	40	802.11ac	CH _L	15.45	94.68	0.24	15.69	24.00	Pass
			CH _H	11.35	94.68	0.24	11.59		
		802.11n	CH _L	15.28	94.65	0.24	15.52	24.00	Pass
			CH _H	11.37	94.65	0.24	11.61		
	80	802.11ac	CH _M	11.62	89.82	0.47	12.09	24.00	Pass

Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
III	20	802.11ac	CH _L	15.42	97.11	0.13	15.55	24.00	Pass
			CH _M	15.68	97.21	0.12	15.80		
			CH _H	11.95	97.21	0.12	12.07		
		802.11n	CH _L	15.25	97.18	0.12	15.37	24.00	Pass
			CH _M	15.52	97.18	0.12	15.64		
			CH _H	11.82	97.09	0.13	11.95		
		802.11a	CH _L	15.43	97.36	0.12	15.55	24.00	Pass
			CH _M	15.64	97.36	0.12	15.76		
			CH _H	11.86	97.36	0.12	11.98		
	40	802.11ac	CH _L	11.11	94.68	0.24	11.35	24.00	Pass
			CH _M	15.82	94.68	0.24	16.06		
			CH _H	11.86	94.68	0.24	12.10		
		802.11n	CH _L	11.12	94.74	0.23	11.35	24.00	Pass
			CH _M	15.82	94.65	0.24	16.06		
	80	802.11ac	CH _L	11.76	89.84	0.47	12.23	24.00	Pass
			CH _M	15.32	89.84	0.47	15.79		
			CH _H	16.05	89.84	0.47	16.52		
IV	20	802.11ac	CH _L	16.19	97.11	0.13	16.32	30.00	Pass
			CH _M	16.32	97.21	0.12	16.44		
			CH _H	16.44	97.21	0.12	16.56		
		802.11n	CH _L	16.02	97.18	0.12	16.14	30.00	Pass
			CH _M	16.15	97.18	0.12	16.27		
			CH _H	16.27	97.18	0.12	16.39		
		802.11a	CH _L	16.03	97.36	0.12	16.15	30.00	Pass
			CH _M	16.15	97.36	0.12	16.27		
			CH _H	16.17	97.36	0.12	16.29		
	40	802.11ac	CH _L	16.36	94.68	0.24	16.60	30.00	Pass
			CH _H	16.46	94.68	0.24	16.70		
		802.11n	CH _L	16.39	94.65	0.24	16.63	30.00	Pass
			CH _H	16.52	94.65	0.24	16.76		
	80	802.11ac	CH _M	15.89	89.84	0.47	16.36	30.00	Pass

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

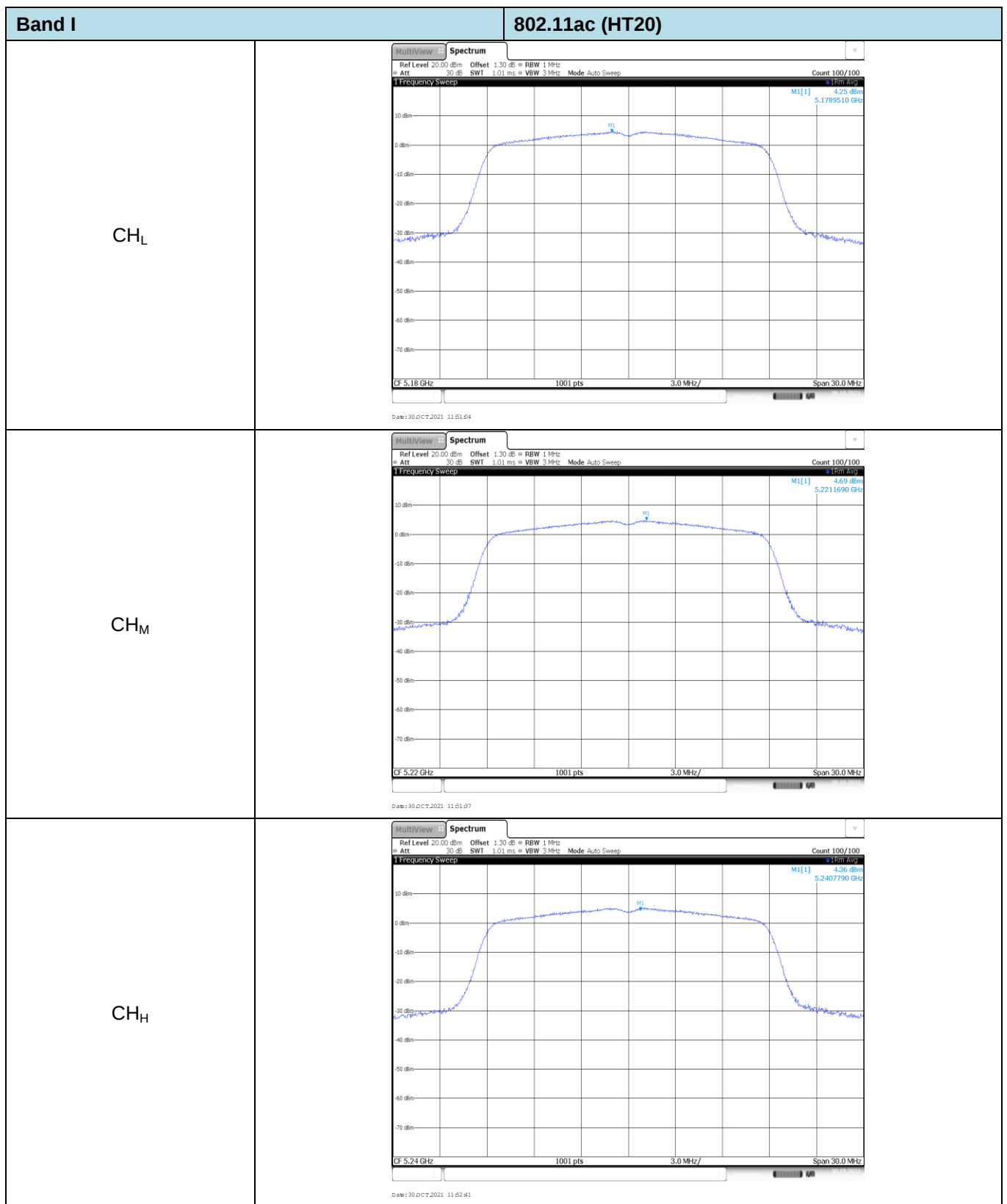
Appendix B: Maximum Power Spectral Density

Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH _L	4.35	97.21	0.12	4.47	11.00	Pass
			CH _M	4.69	97.21	0.12	4.81		
			CH _H	4.36	97.21	0.12	4.48		
		802.11n	CH _L	4.46	97.18	0.12	4.58	11.00	Pass
			CH _M	4.42	97.18	0.12	4.54		
			CH _H	4.41	97.18	0.12	4.53		
		802.11a	CH _L	4.93	97.36	0.12	5.05	11.00	Pass
			CH _M	4.85	97.36	0.12	4.97		
			CH _H	5.13	97.36	0.12	5.25		
	40	802.11ac	CH _L	-2.50	94.68	0.24	-2.26	11.00	Pass
			CH _H	1.73	94.68	0.24	1.97		
		802.11n	CH _L	-2.19	94.74	0.23	-1.96	11.00	Pass
			CH _H	1.52	94.65	0.24	1.76		
	80	802.11ac	CH _M	-5.68	89.82	0.47	-5.21	11.00	Pass

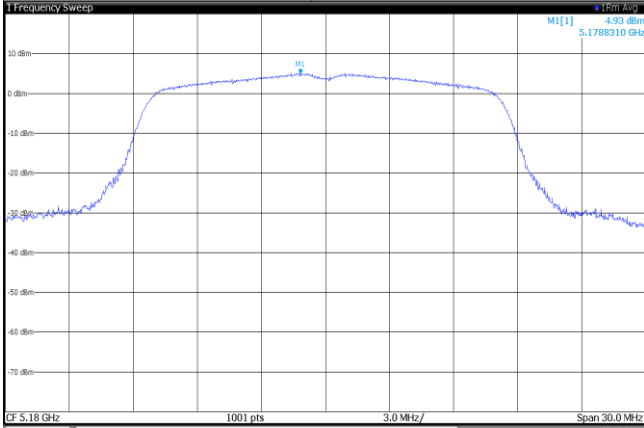
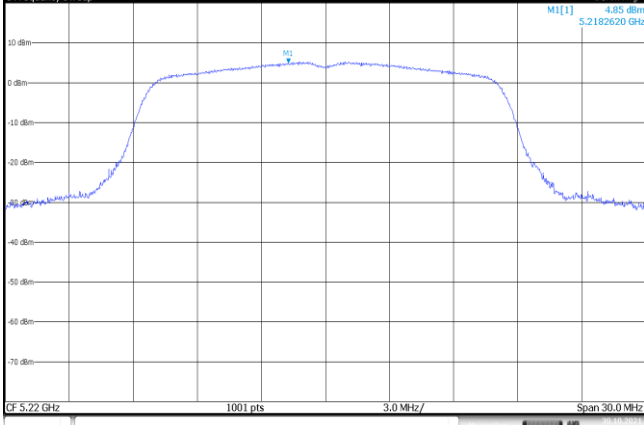
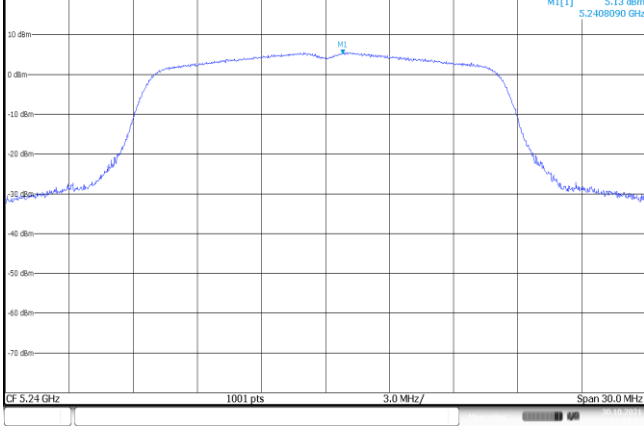
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
II	20	802.11ac	CH _L	4.98	97.21	0.12	5.10	11.00	Pass
			CH _M	5.43	97.11	0.13	5.56		
			CH _H	4.75	97.21	0.12	4.87		
		802.11n	CH _L	4.91	97.18	0.12	5.03	11.00	Pass
			CH _M	5.28	97.18	0.12	5.40		
			CH _H	4.86	97.18	0.12	4.98		
		802.11a	CH _L	5.12	97.36	0.12	5.24	11.00	Pass
			CH _M	5.47	97.28	0.12	5.59		
			CH _H	5.24	97.36	0.12	5.36		
	40	802.11ac	CH _L	2.30	94.68	0.24	2.54	11.00	Pass
			CH _H	-1.41	94.68	0.24	-1.17		
		802.11n	CH _L	2.28	94.65	0.24	2.52	11.00	Pass
			CH _H	-1.59	94.65	0.24	-1.35		
	80	802.11ac	CH _M	-4.27	89.82	0.47	-3.80	11.00	Pass

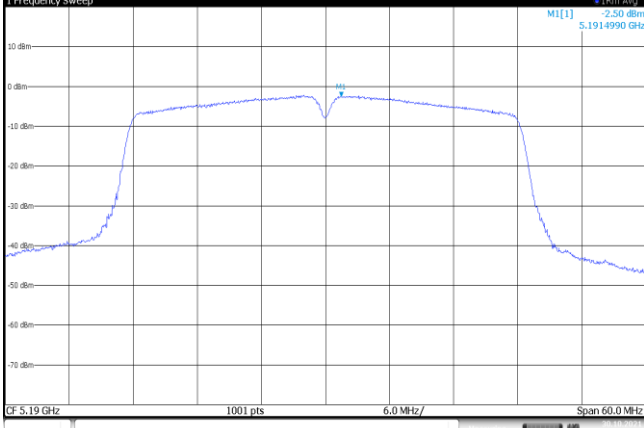
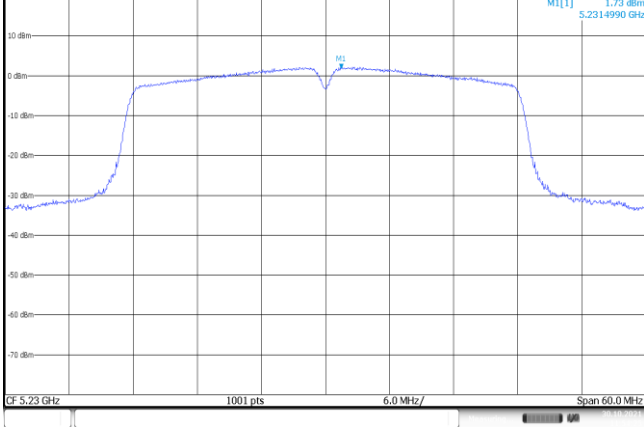
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
III	20	802.11ac	CH _L	5.64	97.11	0.13	5.77	11.00	Pass
			CH _M	6.07	97.21	0.12	6.19		
			CH _H	1.88	97.21	0.12	2.00		
		802.11n	CH _L	5.23	97.18	0.12	5.35	11.00	Pass
			CH _M	5.28	97.18	0.12	5.40		
			CH _H	1.96	97.09	0.13	2.09		
		802.11a	CH _L	5.63	97.36	0.12	5.75	11.00	Pass
			CH _M	5.70	97.36	0.12	5.82		
			CH _H	2.73	97.36	0.12	2.85		
	40	802.11ac	CH _L	-1.92	94.68	0.24	-1.68	11.00	Pass
			CH _M	2.51	94.68	0.24	2.75		
			CH _H	-0.41	94.68	0.24	-0.17		
		802.11n	CH _L	-1.27	94.74	0.23	-1.04	11.00	Pass
			CH _M	2.80	94.65	0.24	3.04		
			CH _H	-0.92	94.65	0.24	-0.68		
	80	802.11ac	CH _L	-4.14	89.84	0.47	-3.67	11.00	Pass
			CH _M	-1.01	89.84	0.47	-0.54		
			CH _H	-0.12	89.84	0.47	0.35		
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	802.11ac	CH _L	2.10	97.11	0.13	2.23	30.00	Pass
			CH _M	3.39	97.21	0.12	3.51		
			CH _H	3.00	97.21	0.12	3.12		
		802.11n	CH _L	2.62	97.18	0.12	2.74	30.00	Pass
			CH _M	2.95	97.18	0.12	3.07		
			CH _H	3.17	97.18	0.12	3.29		
		802.11a	CH _L	3.16	97.36	0.12	3.28	30.00	Pass
			CH _M	3.07	97.36	0.12	3.19		
			CH _H	3.50	97.36	0.12	3.62		
	40	802.11ac	CH _L	0.18	94.68	0.24	0.42	30.00	Pass
			CH _H	0.39	94.68	0.24	0.63		
		802.11n	CH _L	-0.06	94.65	0.24	0.18	30.00	Pass
			CH _H	0.57	94.65	0.24	0.81		
	80	802.11ac	CH _M	-2.72	89.84	0.47	-2.25	30.00	Pass

Test plot as follows:



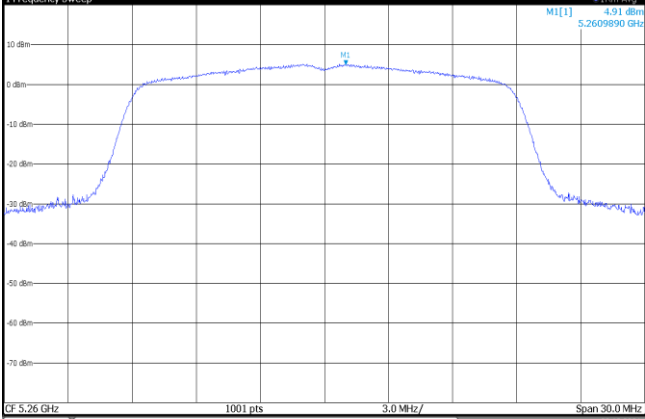
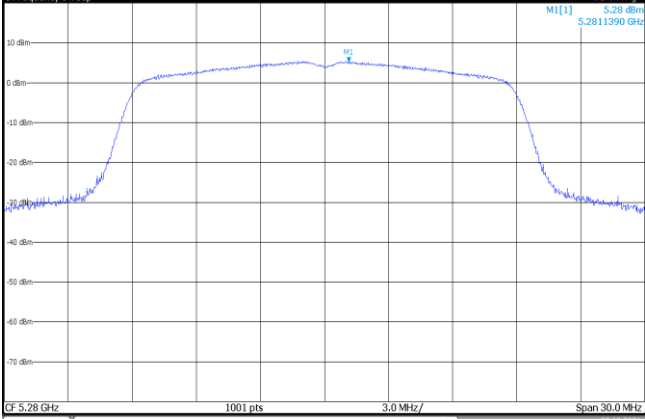
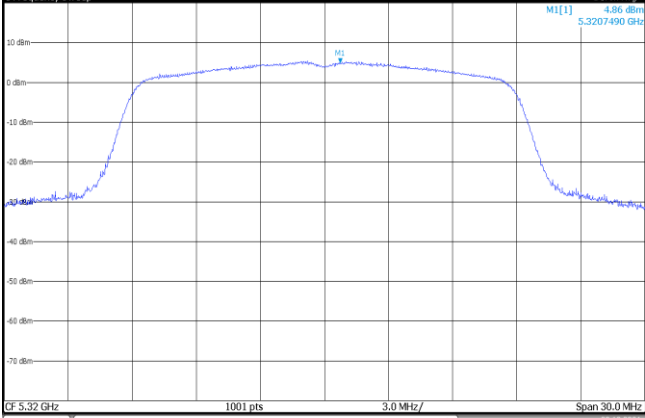
Band I		802.11n (HT20)
CH _L		
CH _M		
CH _H		

Band I		802.11a
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 4.93 dBm 5.1788310 GHz  CF 5.18 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 30/OCT/2021 11:43:44	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 4.85 dBm 5.2182620 GHz  CF 5.22 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 30/OCT/2021 11:43:50	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 5.13 dBm 5.2408090 GHz  CF 5.24 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 30/OCT/2021 11:44:45	

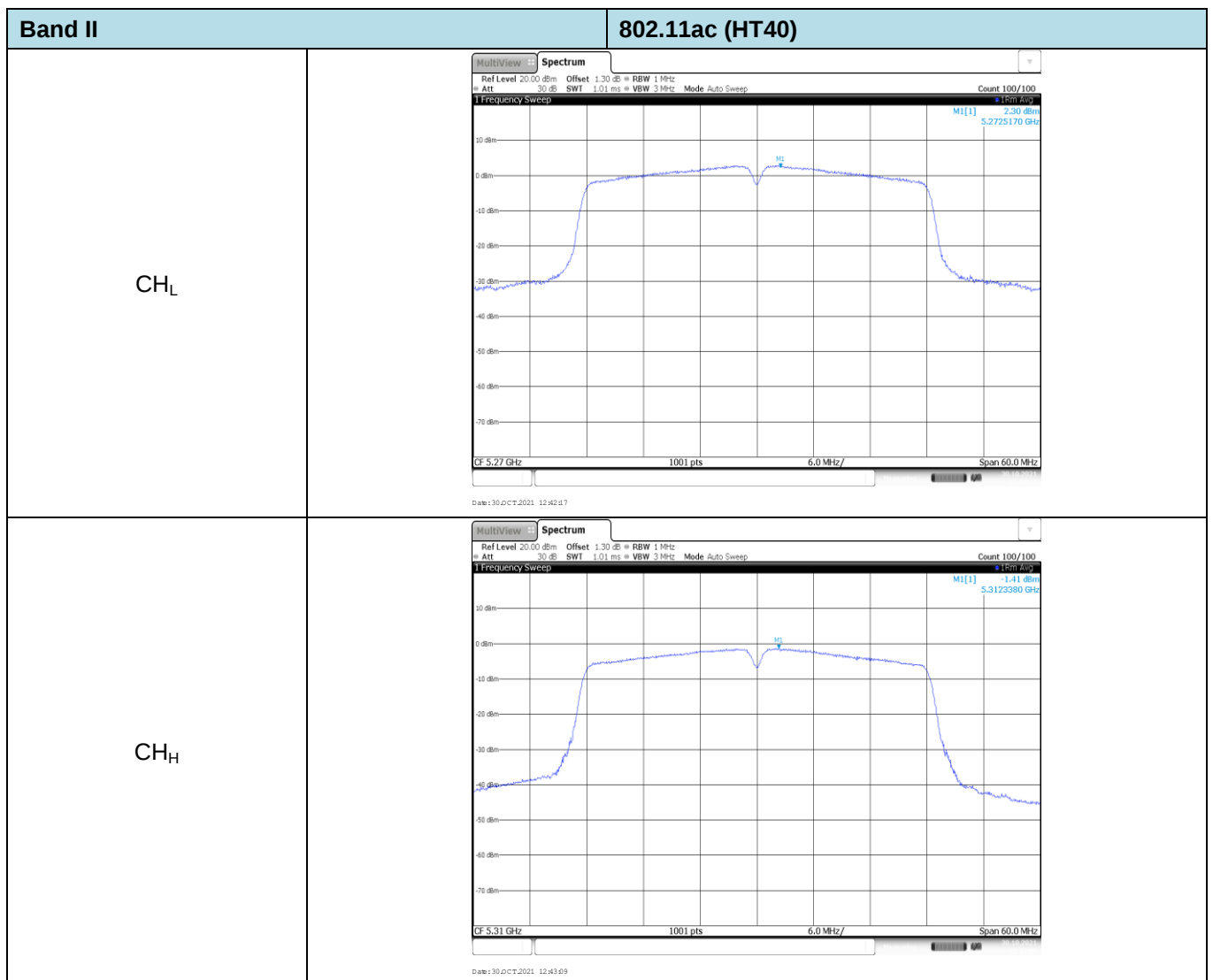
Band I		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.30 dB = RBW 1 MHz = Att 30.00 SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -2.50 dBm 5.1914990 GHz  CF 5.19 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 30/07/2021 11:53:46	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.30 dB = RBW 1 MHz = Att 30.00 SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 1.73 dBm 5.2314990 GHz  CF 5.23 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 30/07/2021 11:54:25	

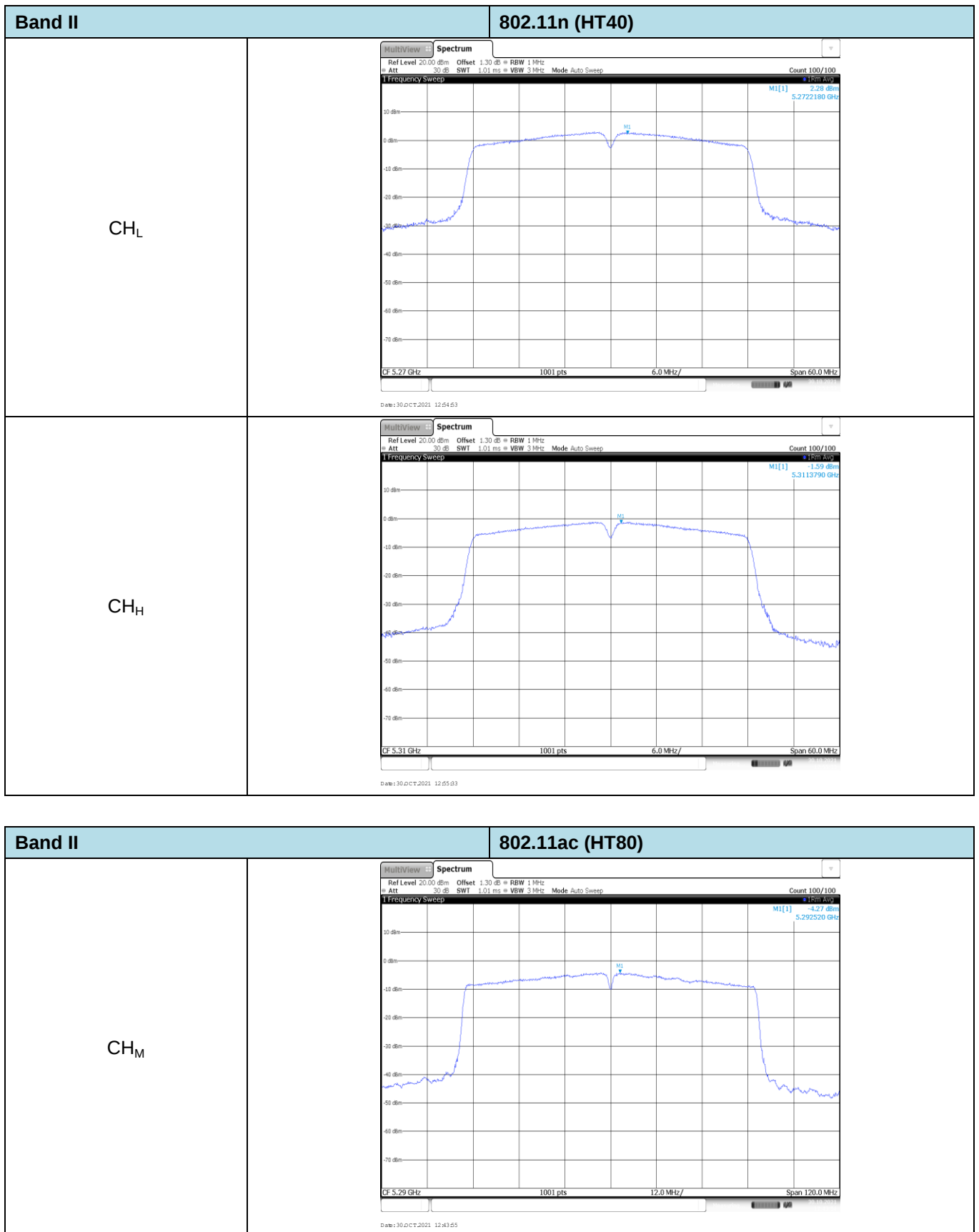
Band I		802.11n (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.30 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -2.19 dBm 5.1919780 GHz CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30.OCT.2021 11:49:05	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.30 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.62 dBm 5.2326370 GHz CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30.OCT.2021 11:49:47	
Band I		802.11ac (HT80)
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.30 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -3.68 dBm 5.214200 GHz CF 5.21 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 30.OCT.2021 11:55:08	

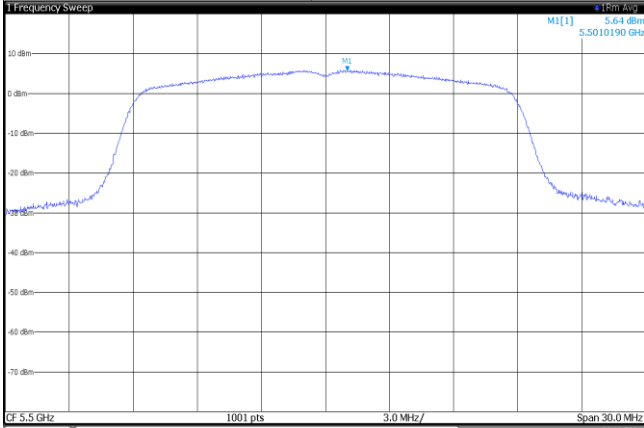
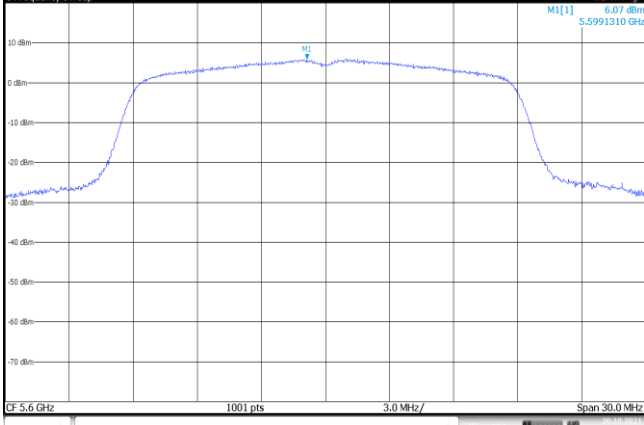
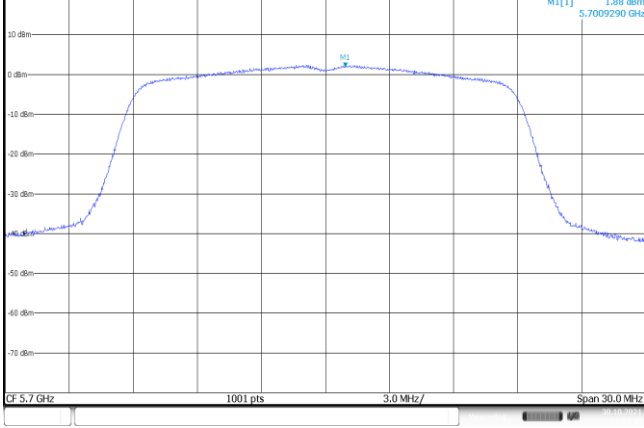
Band II		802.11ac (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 4.98 dBm 5.2591910 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.Oct.2021 12:02:54	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 5.43 dBm 5.2789810 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.Oct.2021 12:04:04	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 4.75 dBm 5.3208090 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.Oct.2021 12:04:41	

Band II802.11n (HT20)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1]4.91 dBm 5.2609890 GHz  CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/07/2021 11:58:23
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1]5.28 dBm 5.2811390 GHz  CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/07/2021 11:59:13
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1]4.86 dBm 5.3207490 GHz  CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/07/2021 12:01:58

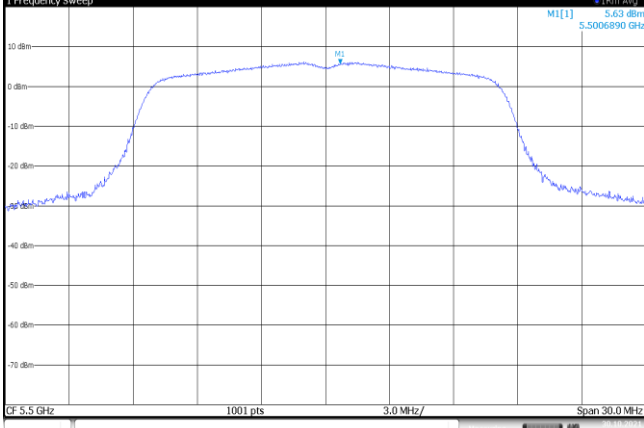
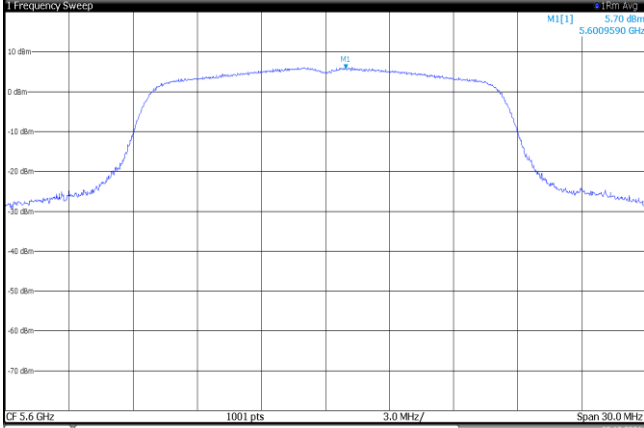
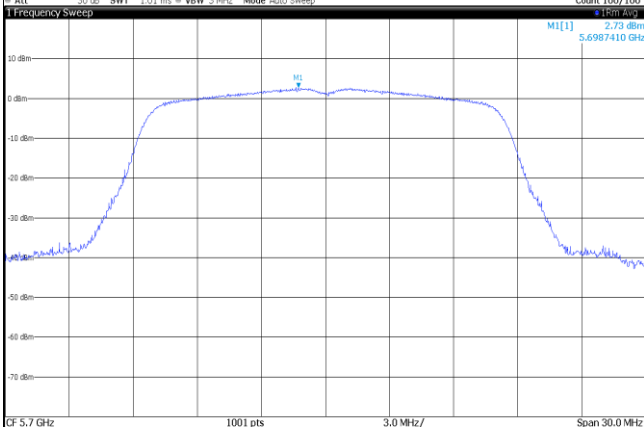
Band II		802.11a
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 5.12 dBm 5.2614690 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 11:56:16	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 5.47 dBm 5.2809290 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 11:56:57	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 5.24 dBm 5.3188310 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 11:57:27	





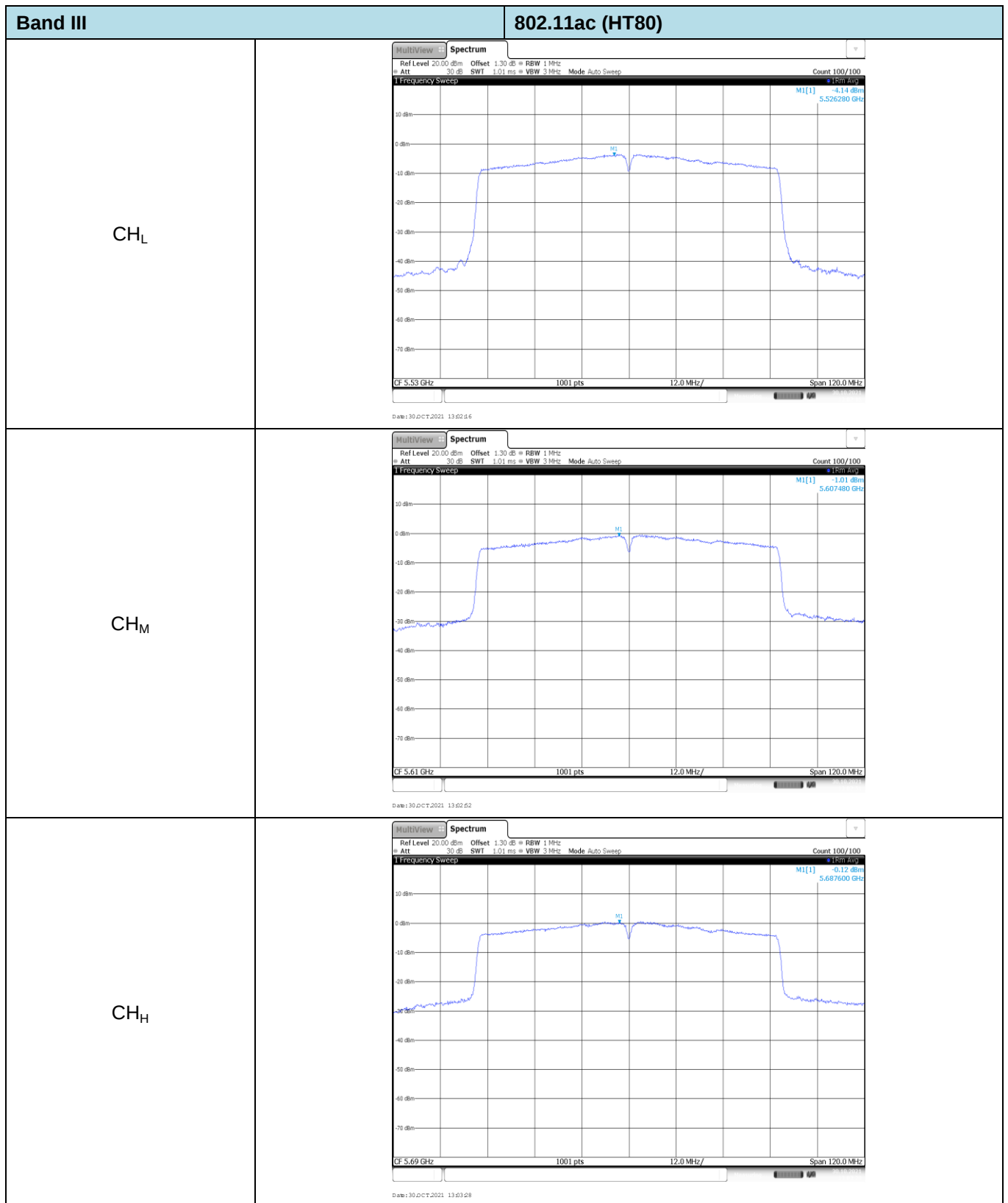
Band III		802.11ac (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 5.64 dBm 5.5010190 GHz  CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/07/2021 12:51:47	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 6.07 dBm 5.5991310 GHz  CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/07/2021 12:52:25	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.88 dBm 5.7009290 GHz  CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/07/2021 12:53:10	

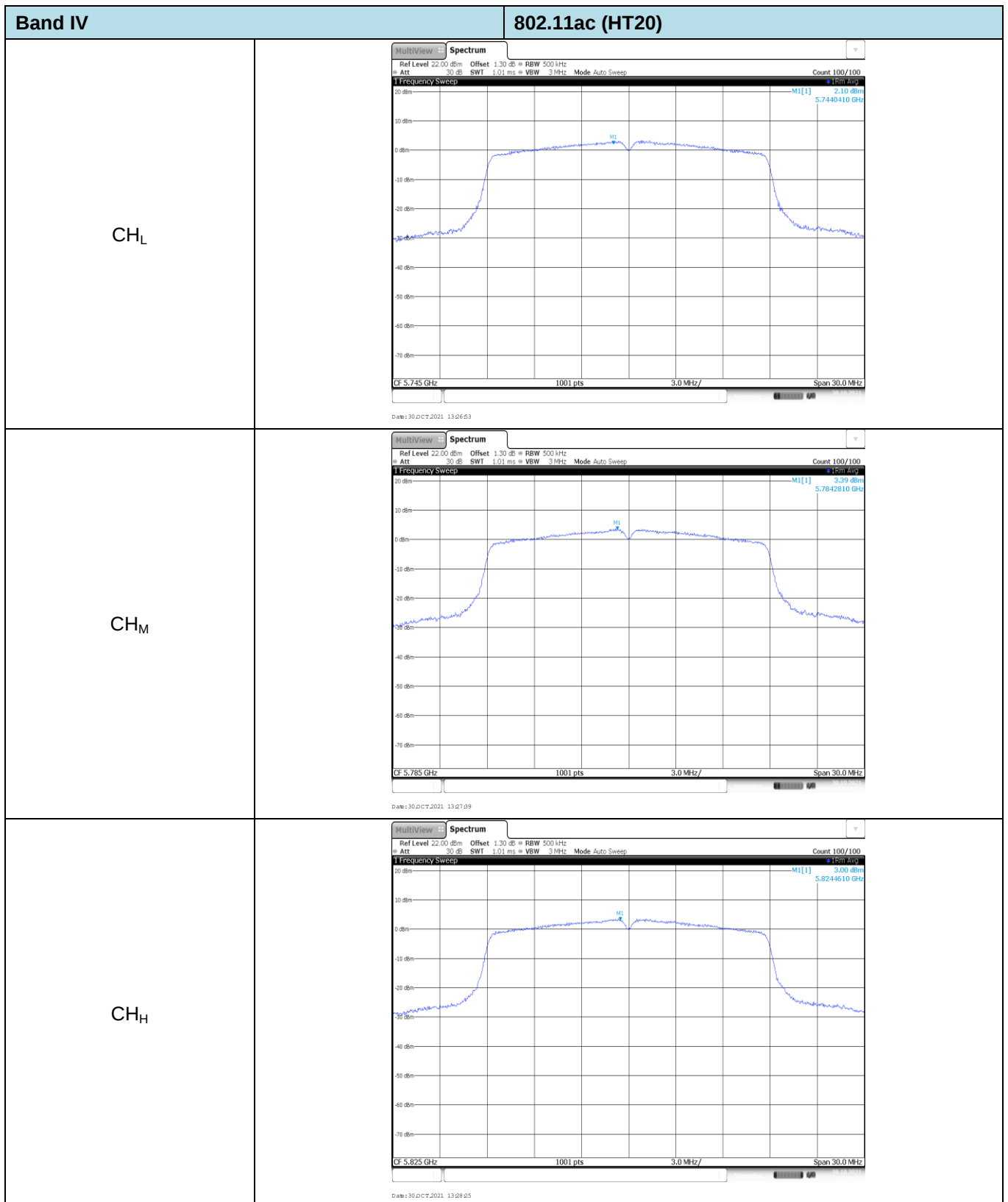
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CH _L	Ref Level 20.00 dBm Offset 1.30 dB RBW 1 MHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.5008690 GHz 5.5008690 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/OCT/2021 12:48:04	
CH _M	Ref Level 20.00 dBm Offset 1.30 dB RBW 1 MHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.5990110 GHz 5.5990110 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/OCT/2021 12:49:08	
CH _H	Ref Level 20.00 dBm Offset 1.30 dB RBW 1 MHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.7008990 GHz 5.7008990 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/OCT/2021 12:49:48	

Band III		802.11a
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 5.63 dBm 5.5006890 GHz  CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/Dec/2021 12:45:22	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 5.70 dBm 5.6009590 GHz  CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/Dec/2021 12:45:58	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.73 dBm 5.6987410 GHz  CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30/Dec/2021 12:46:46	

Band III		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 -1.92 dBm 5.5077220 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.51 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30/07/2021 12:59:01	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 2.51 dBm 5.5880820 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.59 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30/07/2021 13:00:24	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 -0.41 dBm 5.6726970 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.67 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30/07/2021 13:01:03	

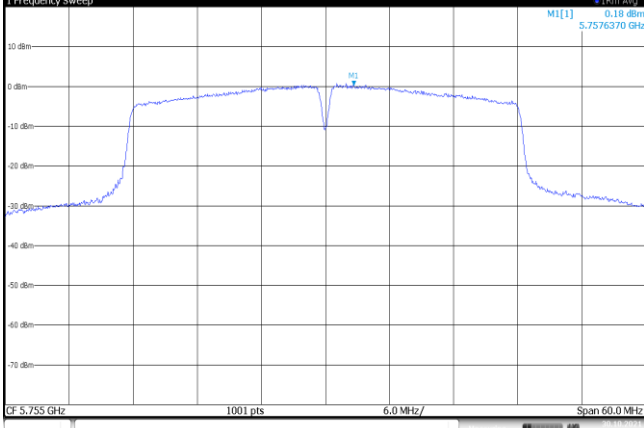
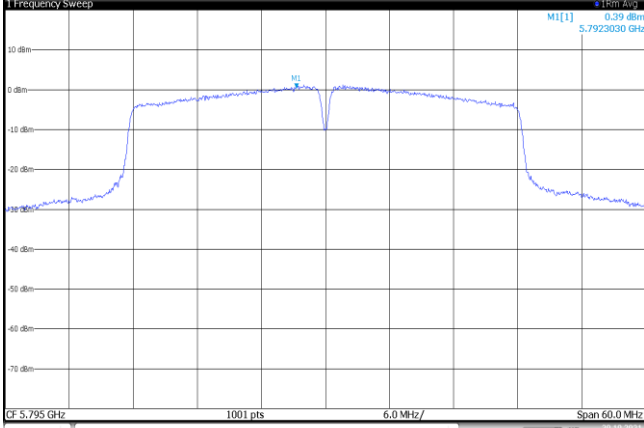
Band III		802.11n (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.27 dBm 5.5119780 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.51 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30.Oct.2021 12:56:40	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.80 dBm 5.5877820 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.59 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30.Oct.2021 12:57:40	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -0.92 dBm 5.6679620 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.67 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30.Oct.2021 12:58:21	

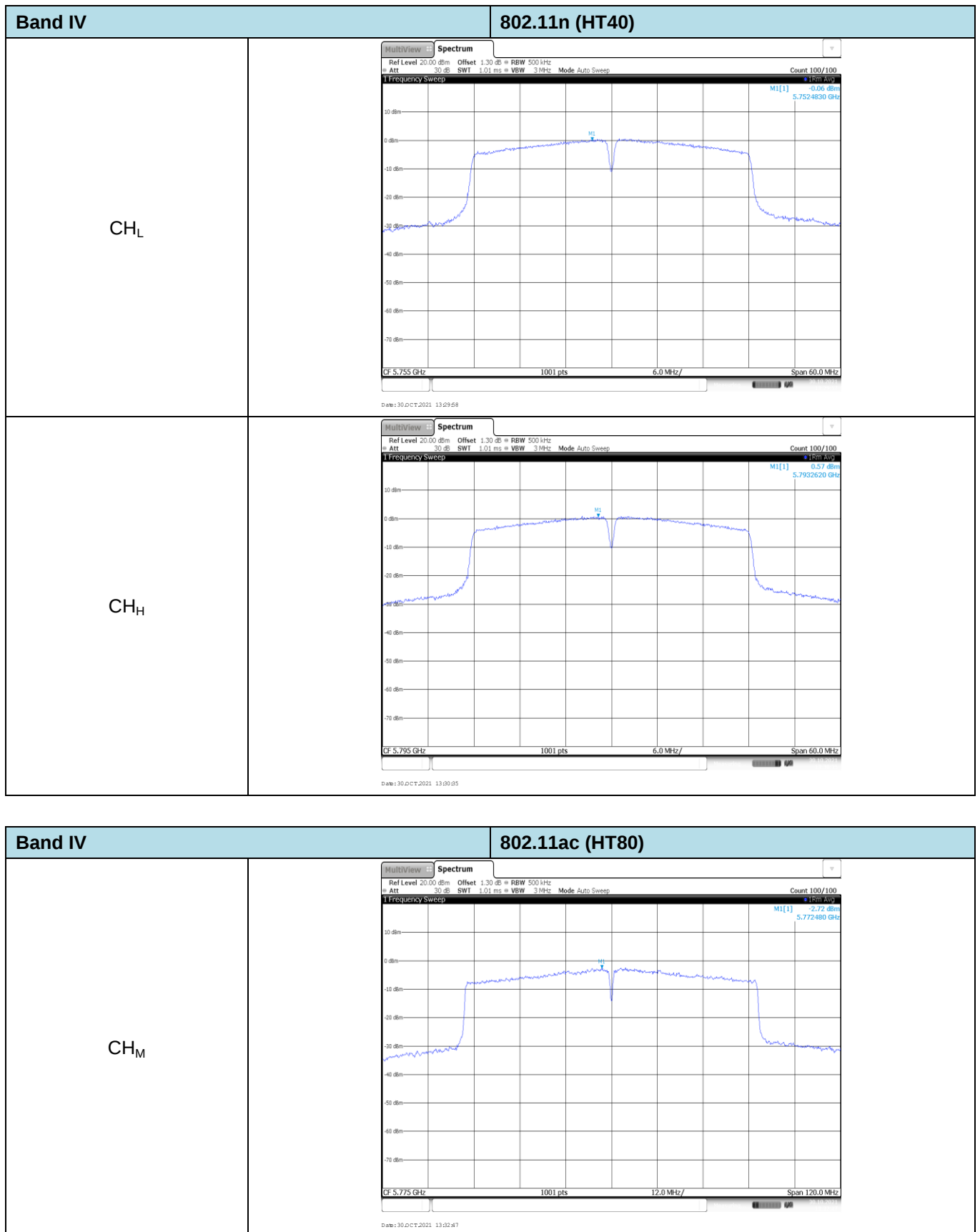




Band IV		802.11n (HT20)
CH _L	Ref Level 22.00 dBm Offset 1.30 dB BW 500 kHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1 2.62 dBm 5.7459290 GHz GF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 13:24:30	
CH _M	Ref Level 22.00 dBm Offset 1.30 dB BW 500 kHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1 2.96 dBm 5.7859590 GHz GF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 13:25:06	
CH _H	Ref Level 22.00 dBm Offset 1.30 dB BW 500 kHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1 3.17 dBm 5.8257790 GHz GF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 13:25:00	

Band IV		802.11a
CH _L	Ref Level 20.00 dBm Offset 1.30 dB RBW 500 kHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 3.16 dBm 5.7455690 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 13:21:33	
CH _M	Ref Level 20.00 dBm Offset 1.30 dB RBW 500 kHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 3.07 dBm 5.7838010 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 13:22:28	
CH _H	Ref Level 22.00 dBm Offset 1.30 dB RBW 500 kHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 3.50 dBm 5.8243110 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2021 13:23:28	

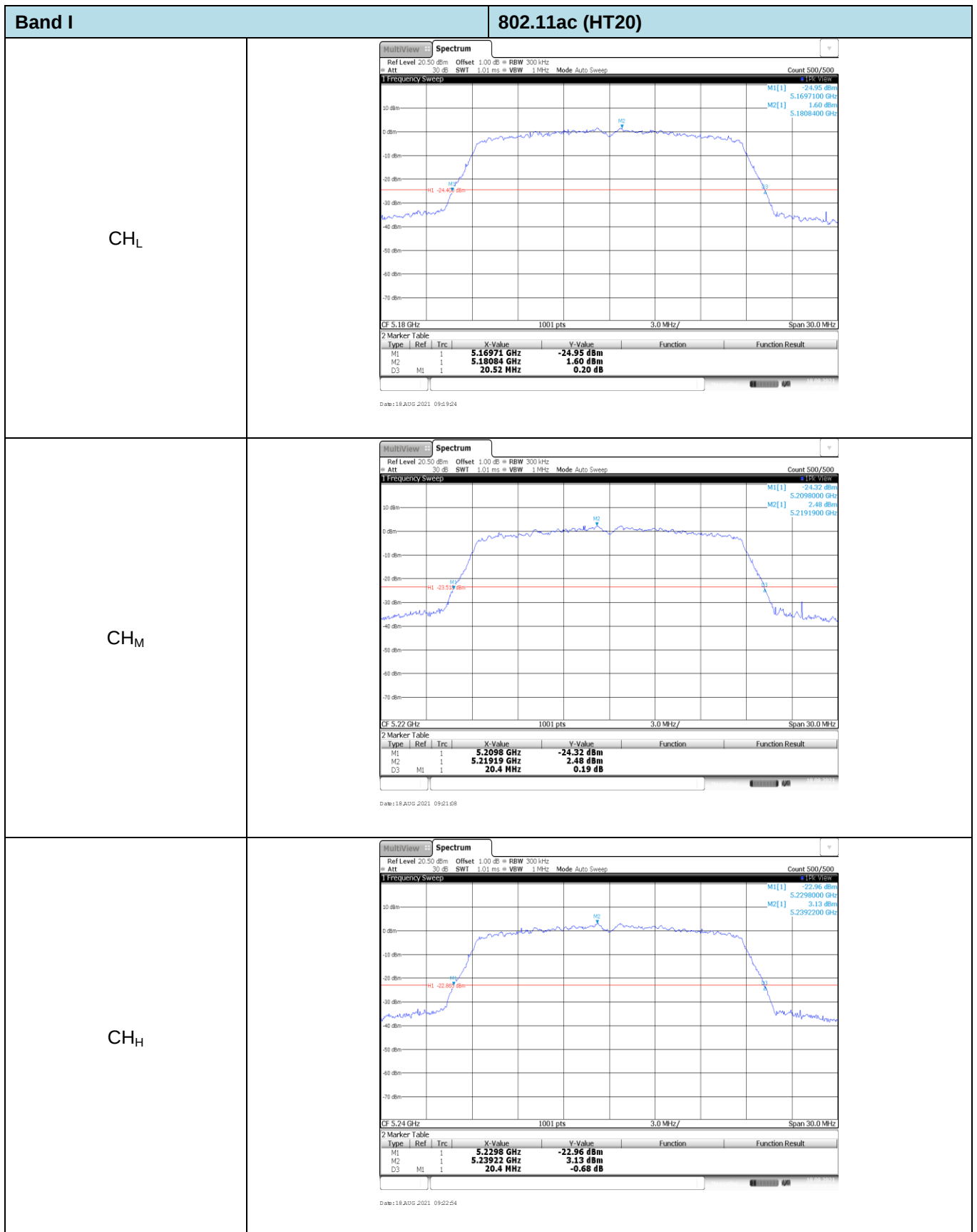
Band IV		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 15m Avg Frequency Sweep MU[1] 0.18 dBm 5.7576370 GHz  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30/07/2021 13:01:28	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.30 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 15m Avg Frequency Sweep MU[1] 0.09 dBm 5.7923030 GHz  CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 30/07/2021 13:02:01	

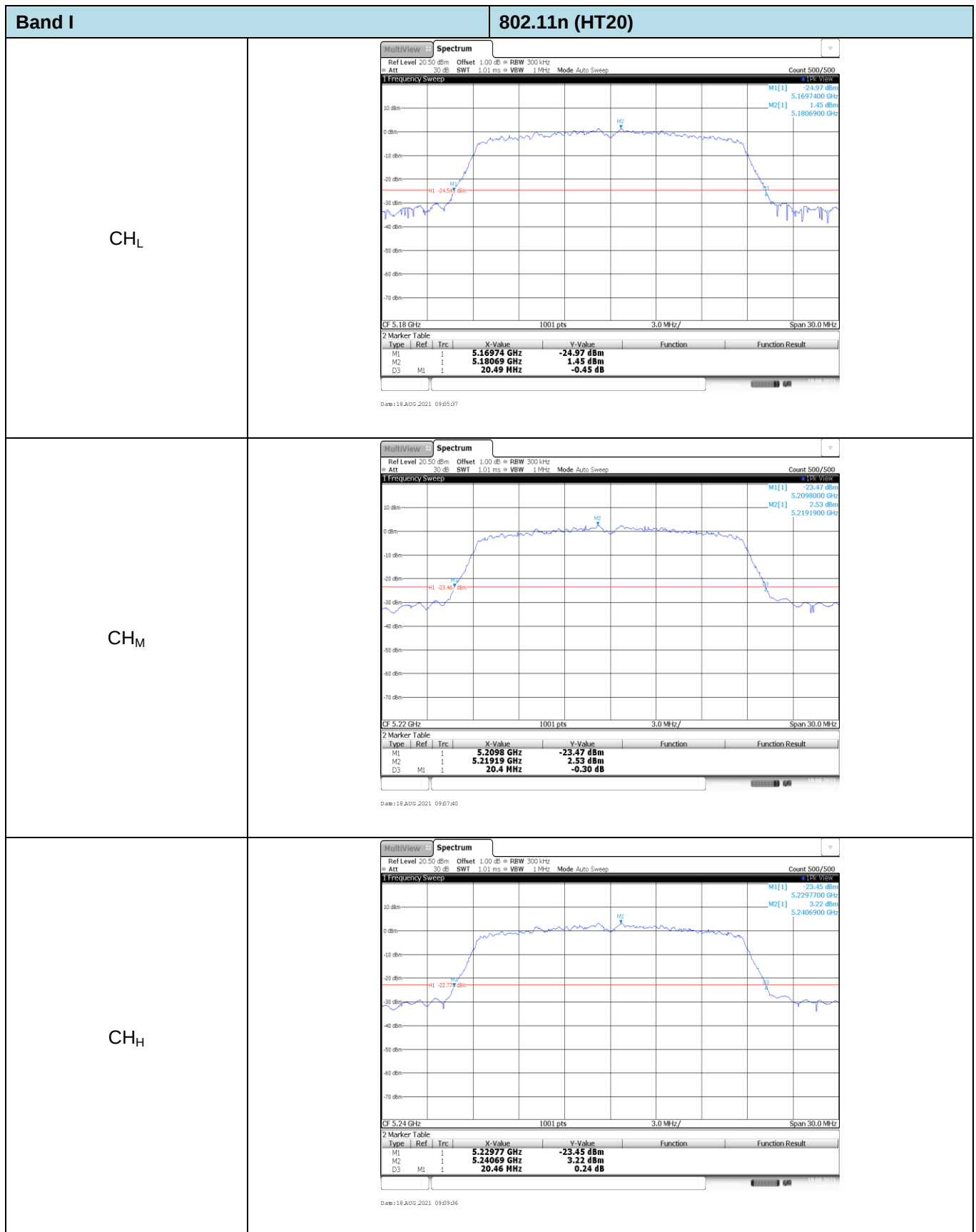


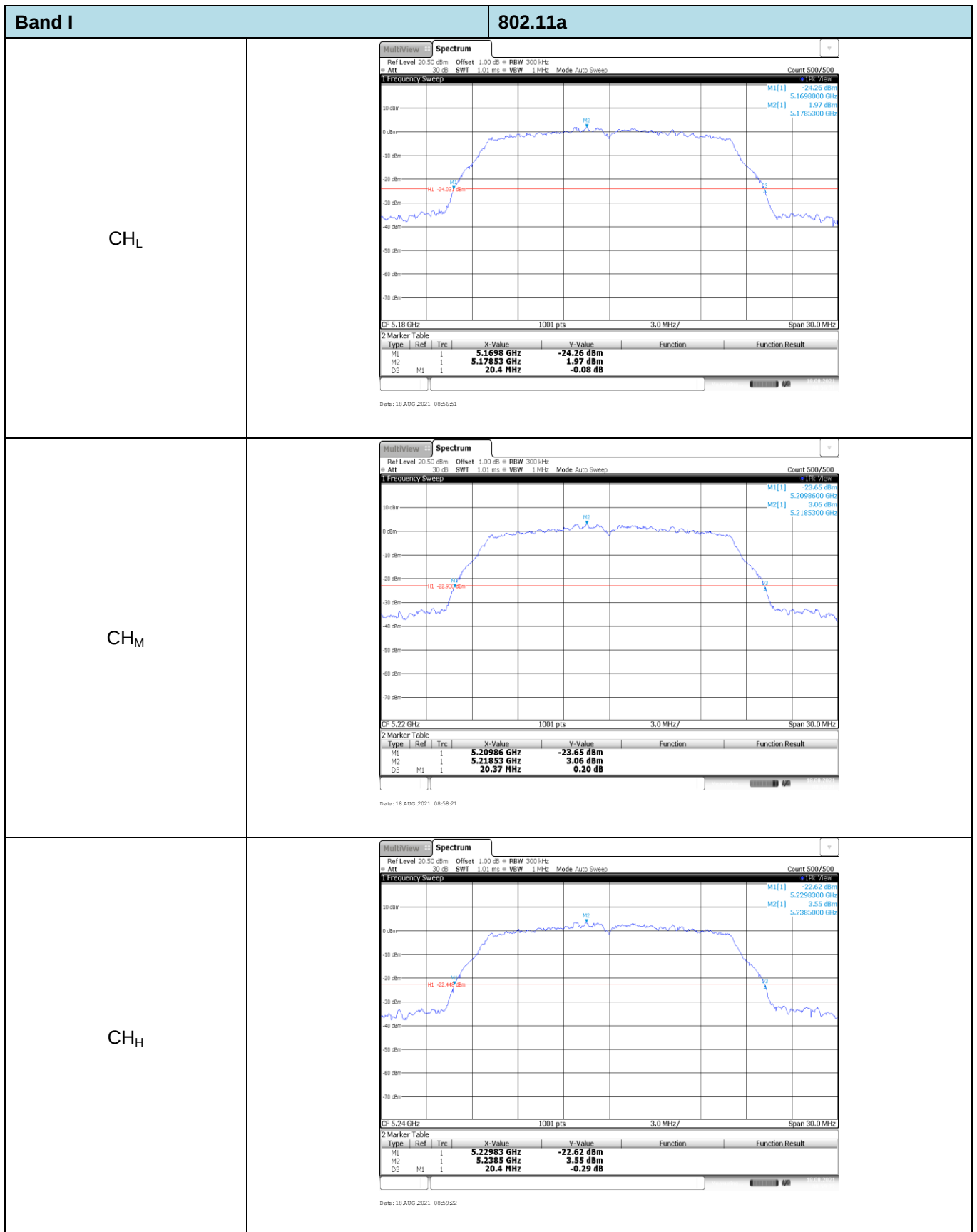
Appendix C: 26dB bandwidth

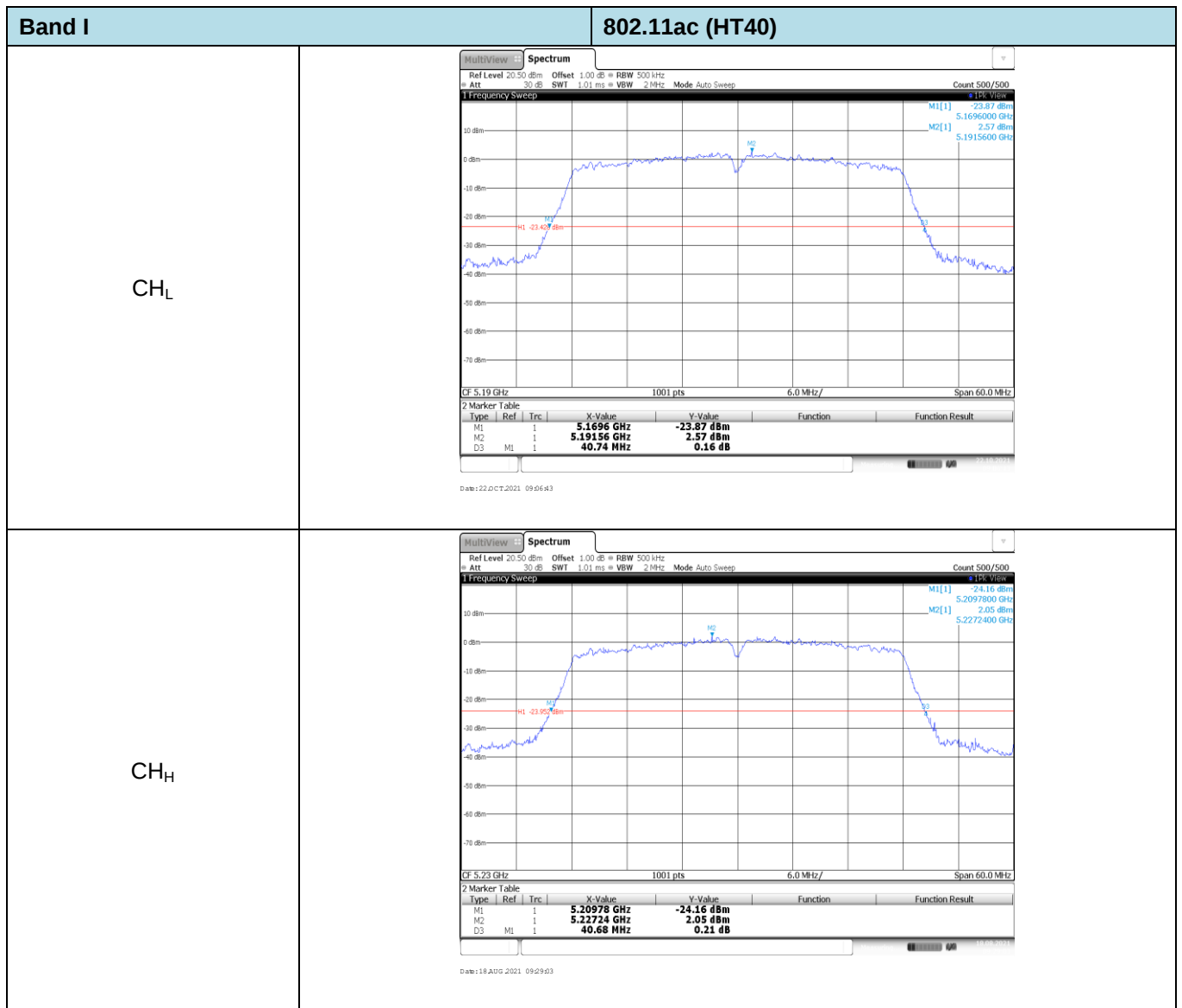
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.52	Pass
			CH _M	20.40	
			CH _H	20.40	
		802.11n	CH _L	20.49	Pass
			CH _M	20.40	
			CH _H	20.46	
		802.11a	CH _L	20.40	Pass
			CH _M	20.37	
			CH _H	20.40	
	40	802.11ac	CH _L	40.74	Pass
			CH _H	40.68	
		802.11n	CH _L	40.62	Pass
			CH _H	41.10	
	80	802.11ac	CH _M	81.48	Pass
II	20	802.11ac	CH _L	20.40	Pass
			CH _M	20.43	
			CH _H	20.40	
		802.11n	CH _L	20.37	Pass
			CH _M	20.43	
			CH _H	20.46	
		802.11a	CH _L	20.37	Pass
			CH _M	20.34	
			CH _H	20.40	
	40	802.11ac	CH _L	40.74	Pass
			CH _H	40.80	
		802.11n	CH _L	40.68	Pass
			CH _H	40.56	
	80	802.11ac	CH _M	81.36	Pass

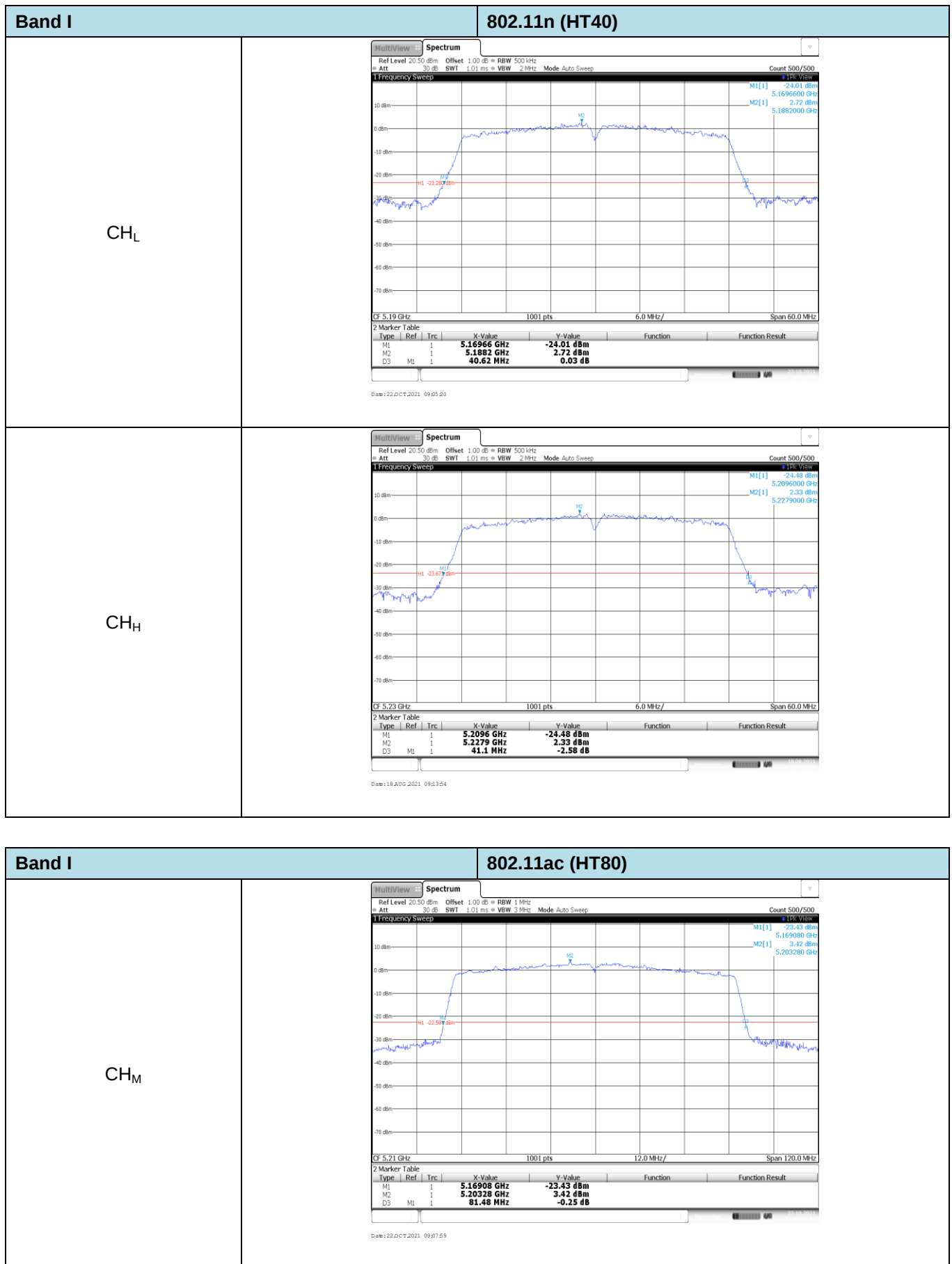
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
III	20	802.11ac	CH _L	20.46	Pass
			CH _M	20.49	
			CH _H	20.49	
		802.11n	CH _L	20.40	Pass
			CH _M	20.46	
			CH _H	20.82	
		802.11a	CH _L	20.34	Pass
			CH _M	20.37	
			CH _H	20.67	
	40	802.11ac	CH _L	40.80	Pass
			CH _M	40.80	
			CH _H	40.86	
		802.11n	CH _L	40.98	Pass
			CH _M	40.56	
			CH _H	40.98	
	80	802.11ac	CH _L	81.72	Pass
			CH _M	81.36	
			CH _H	81.36	

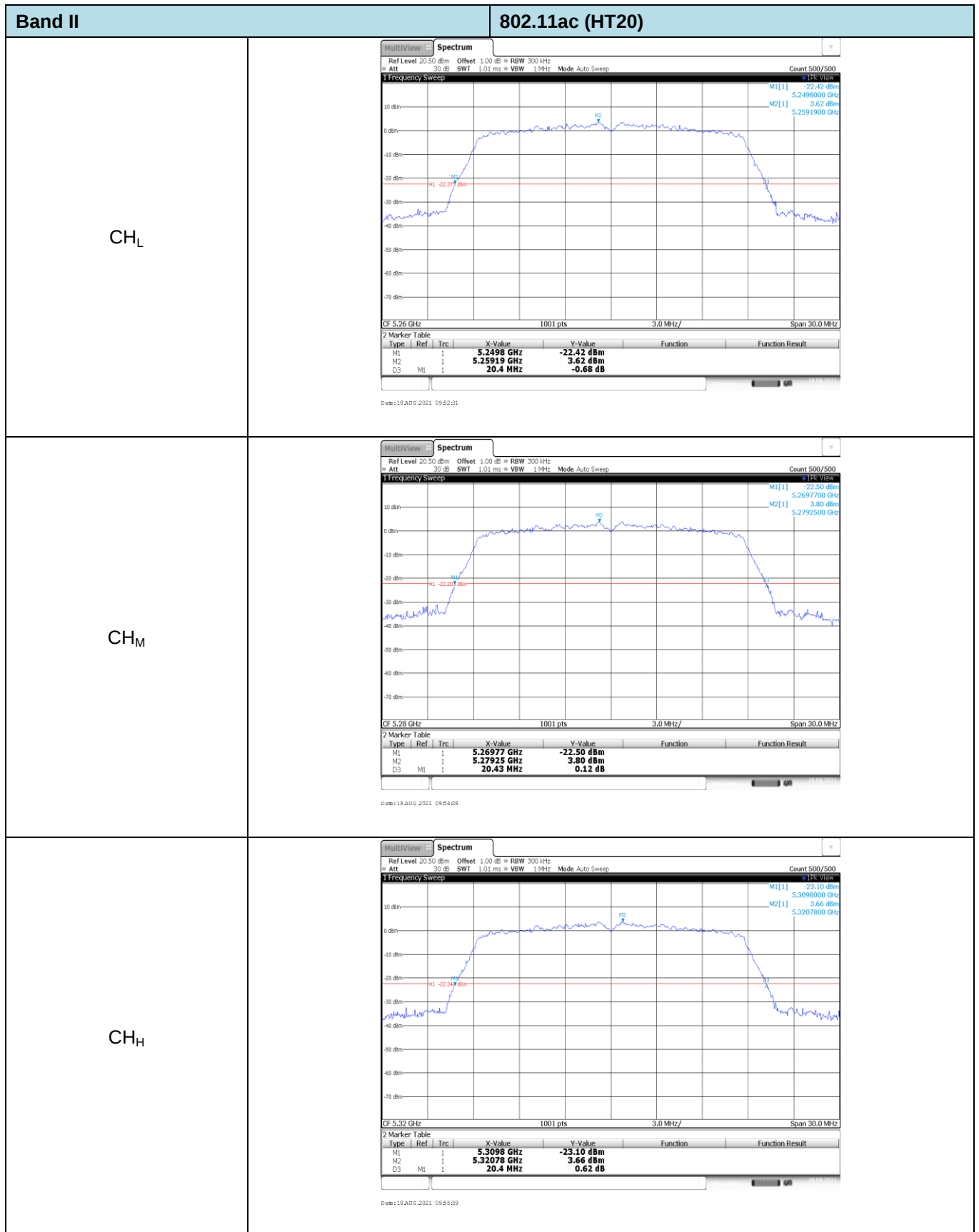


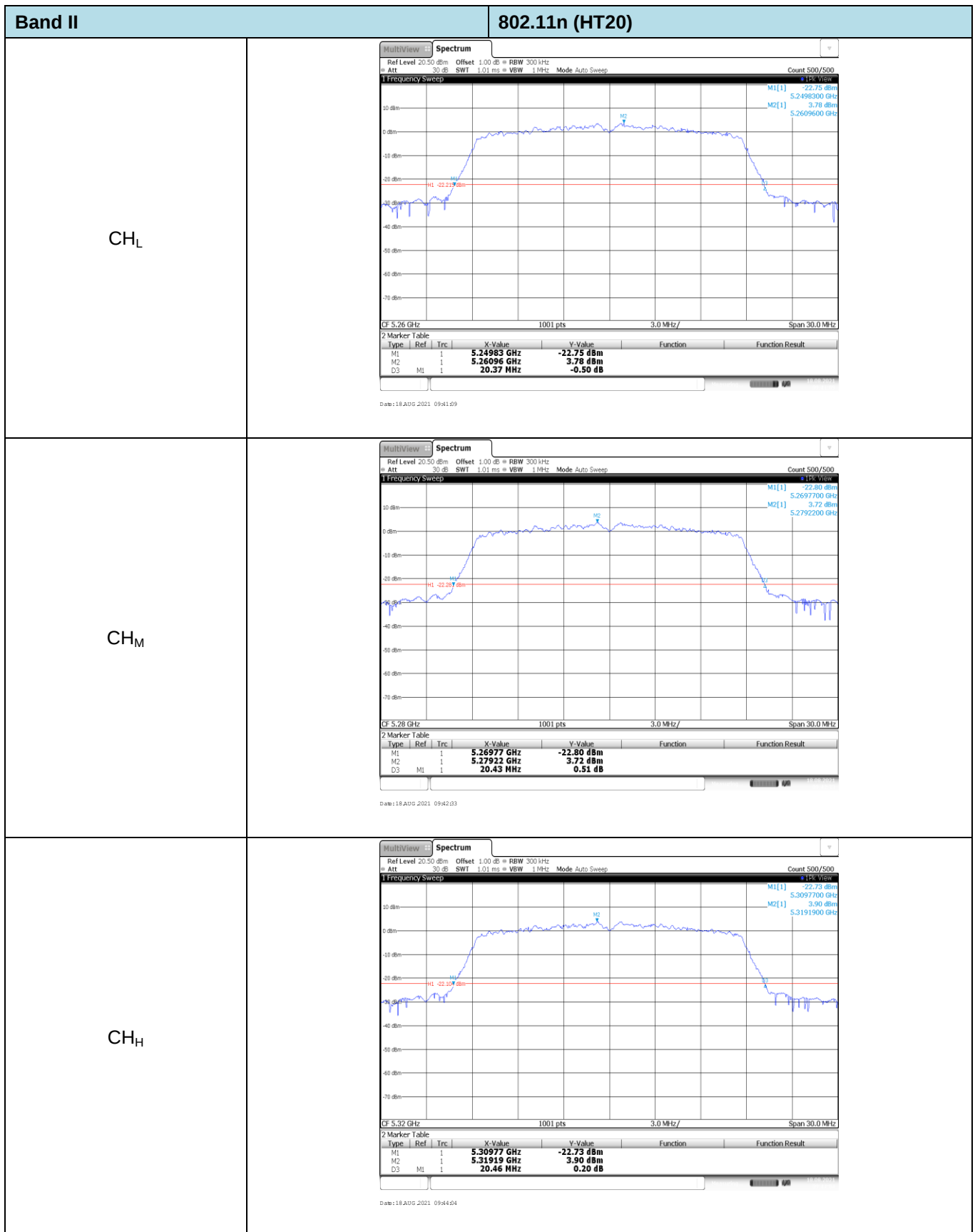


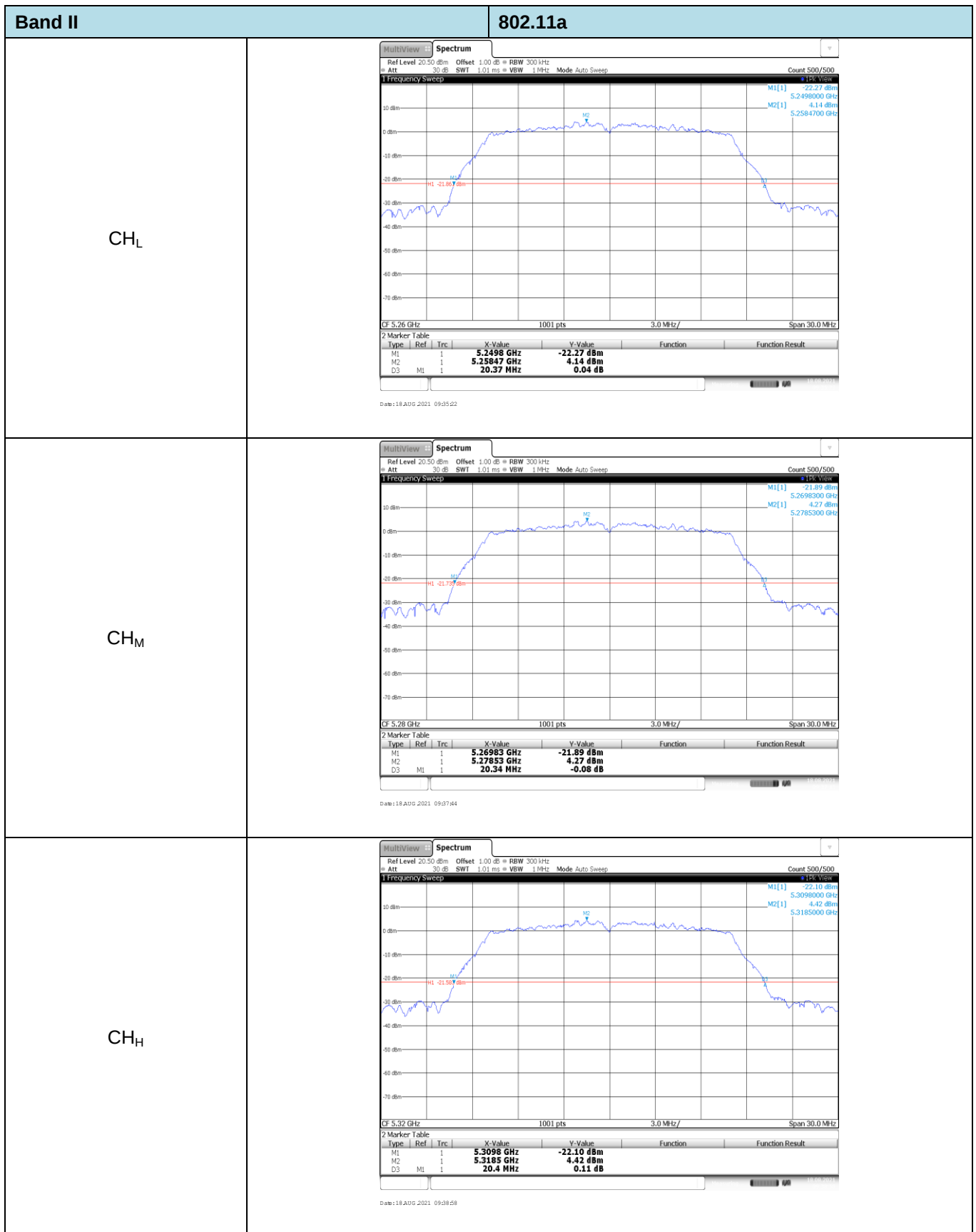


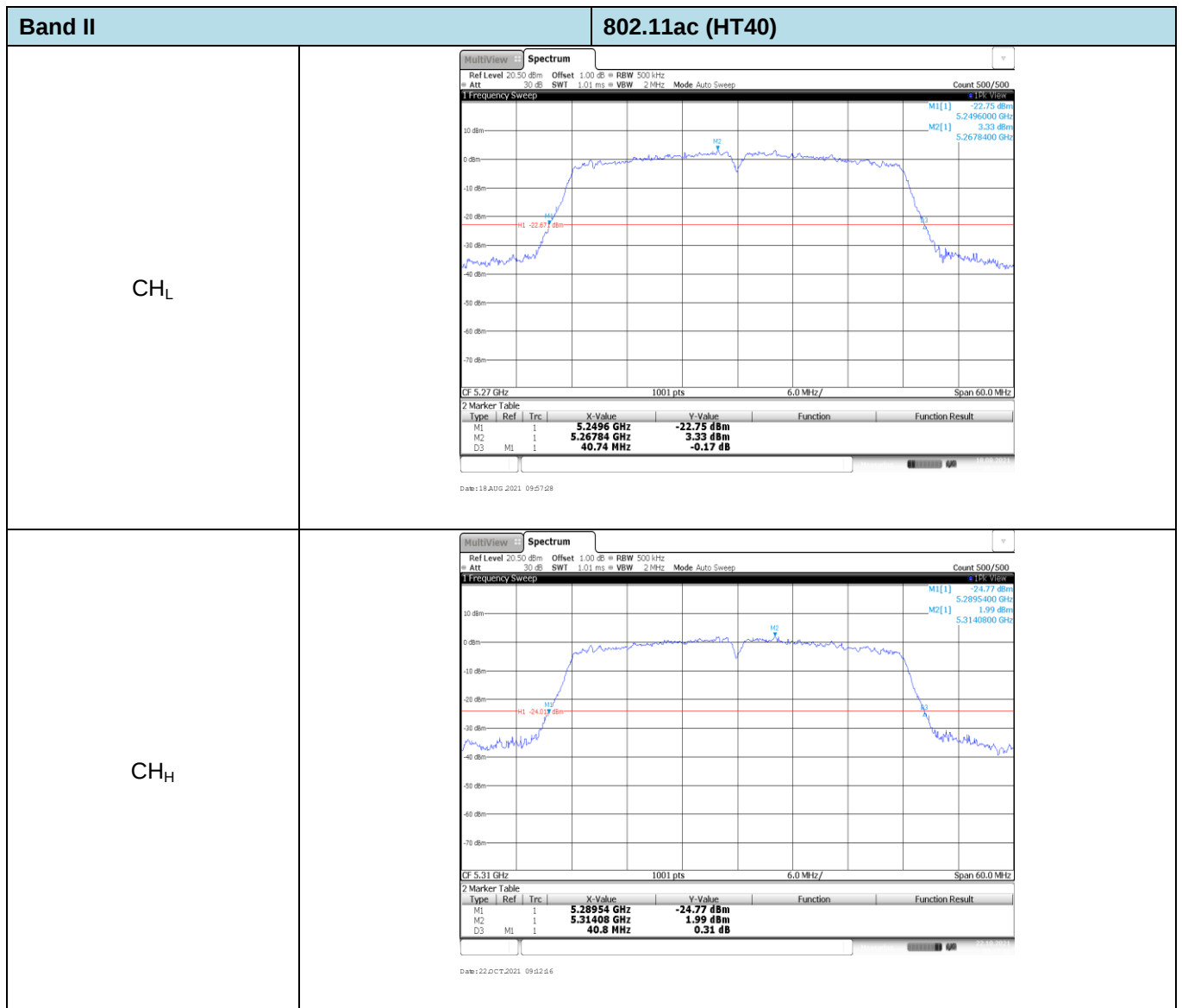


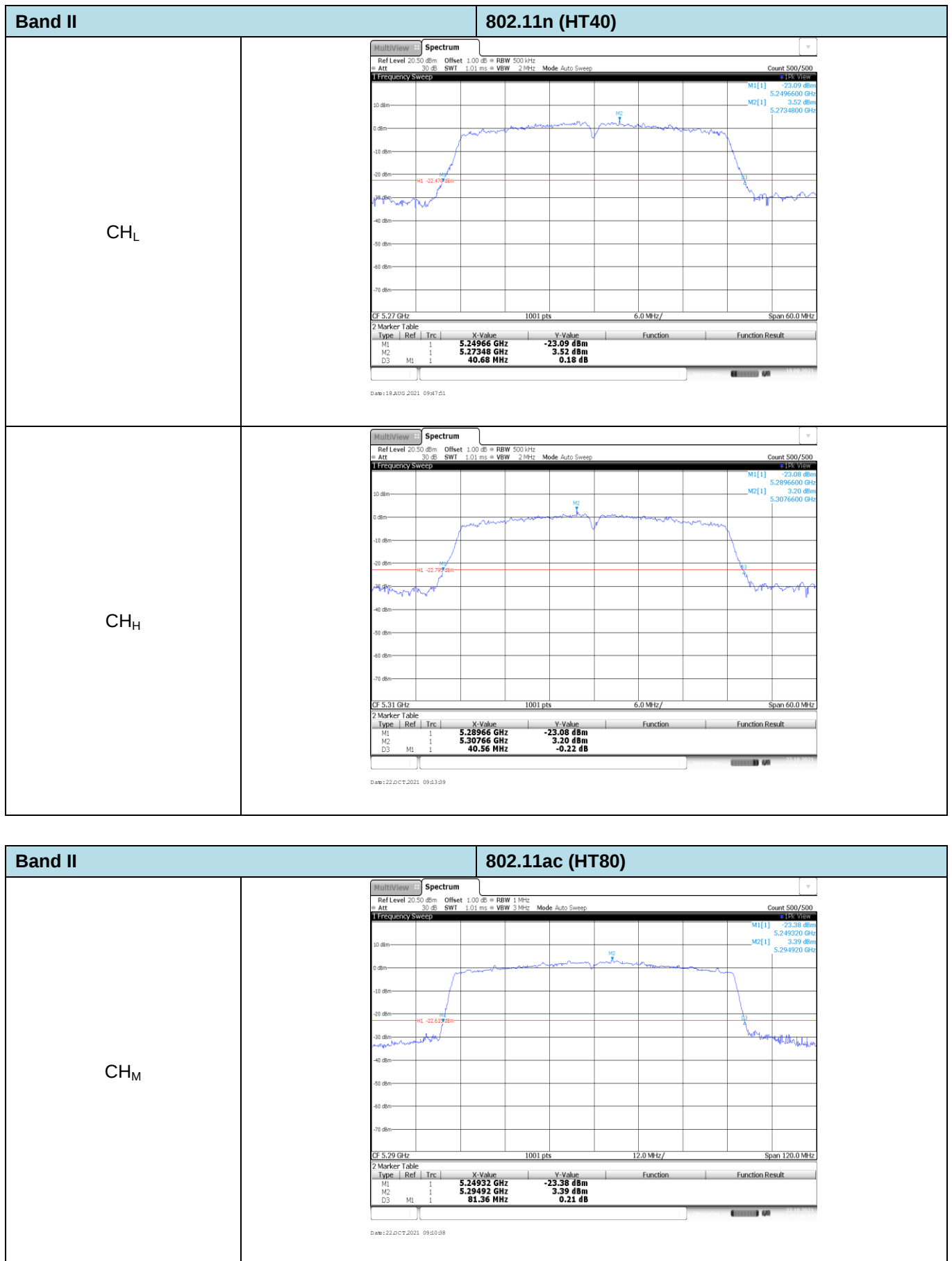


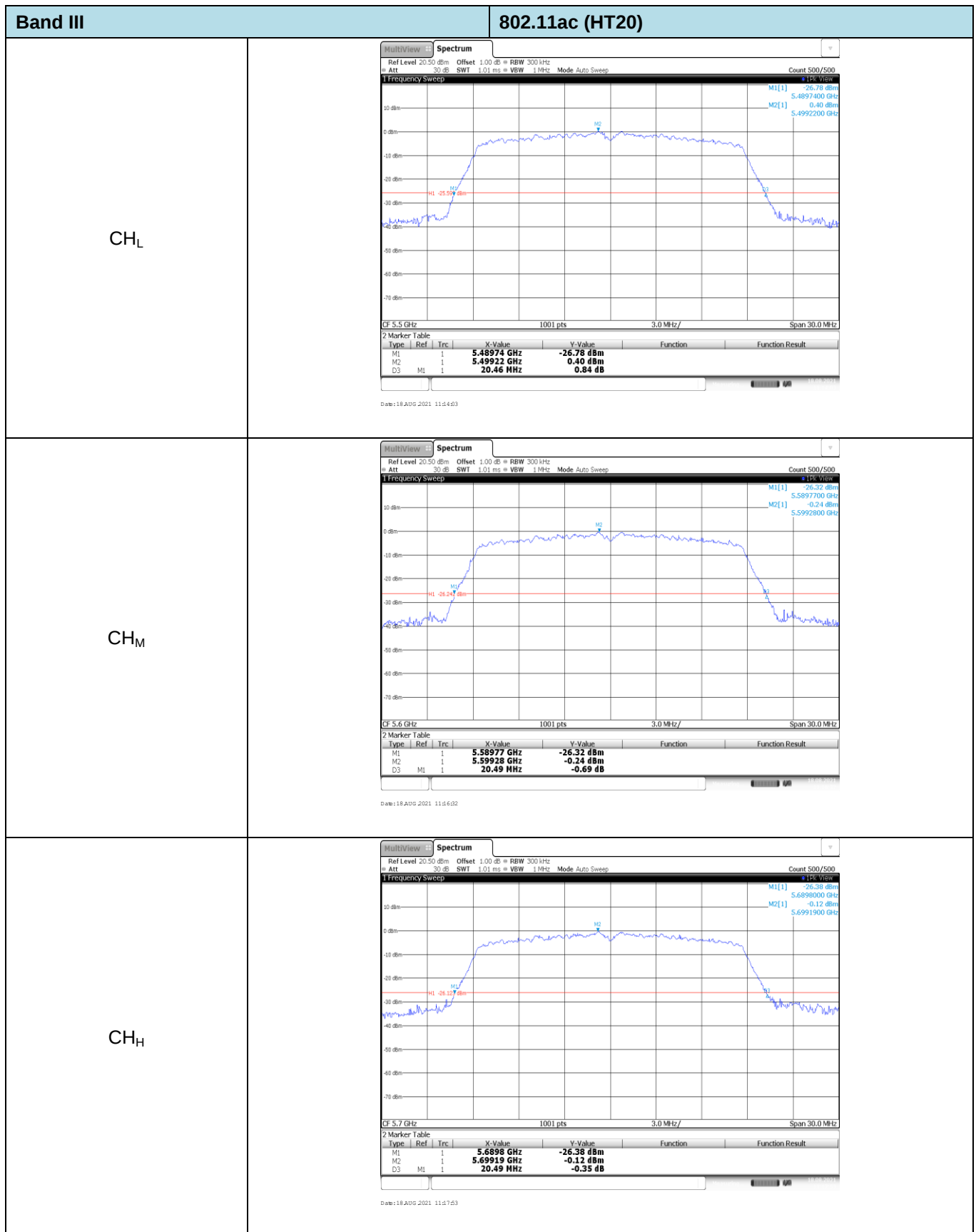


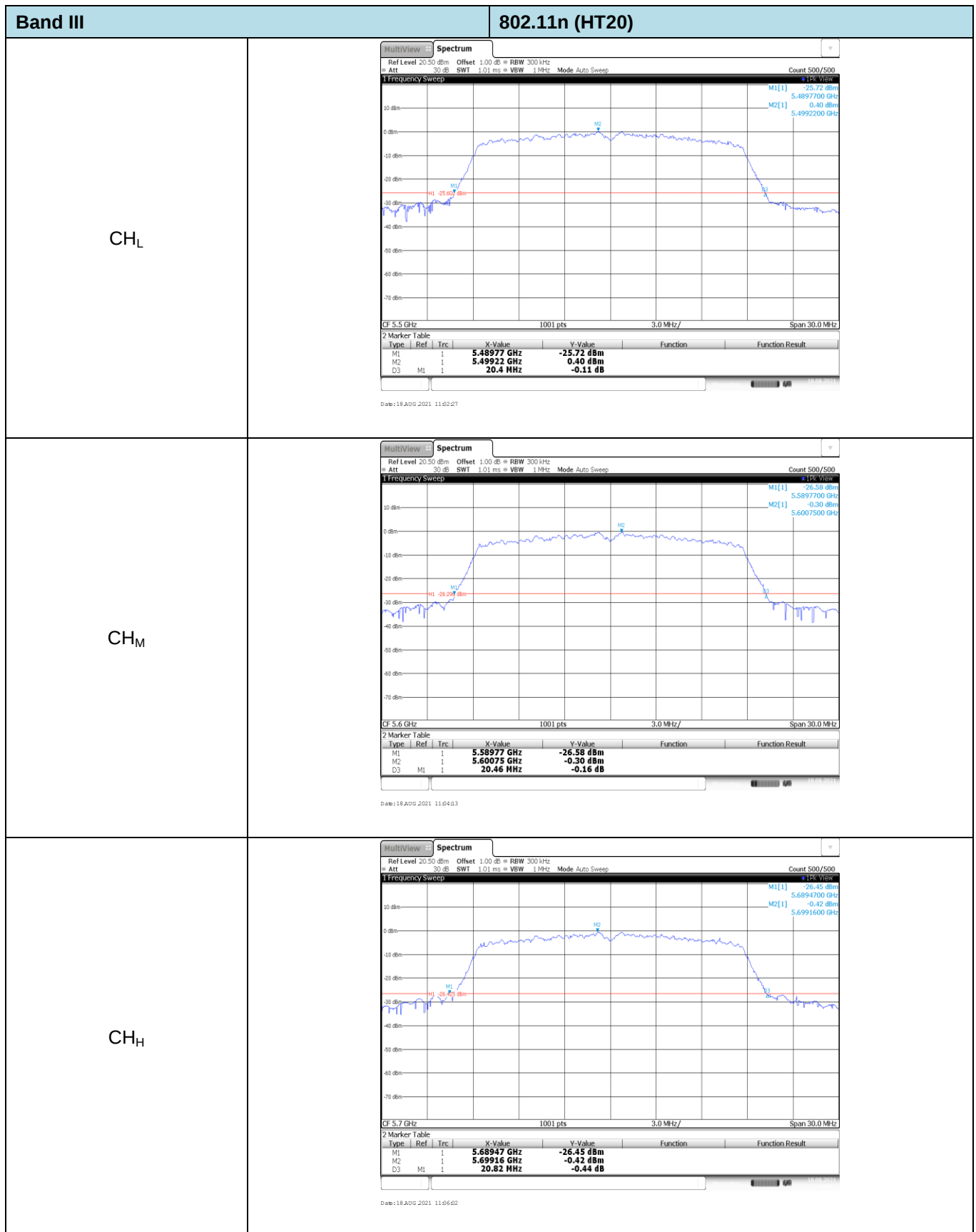


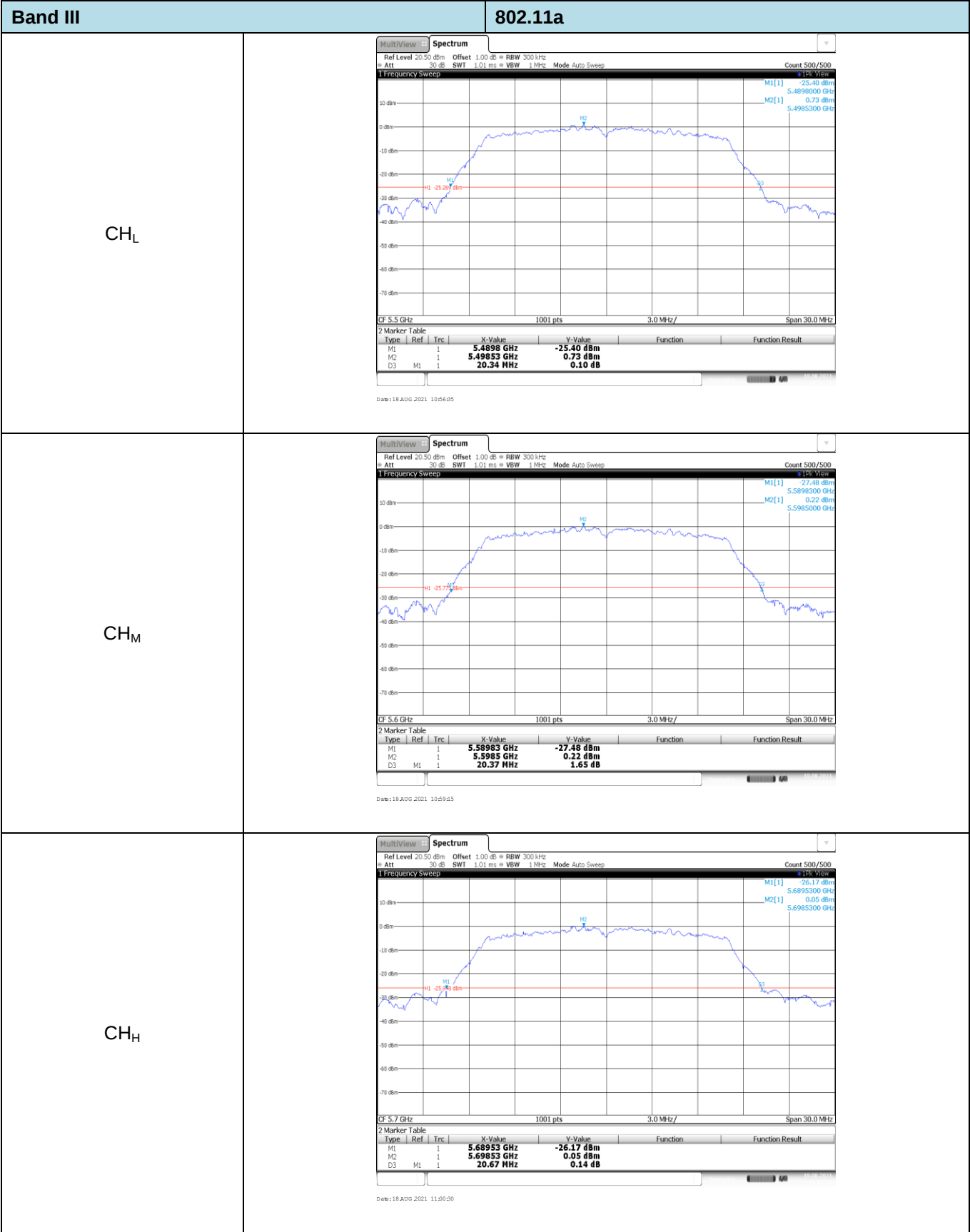


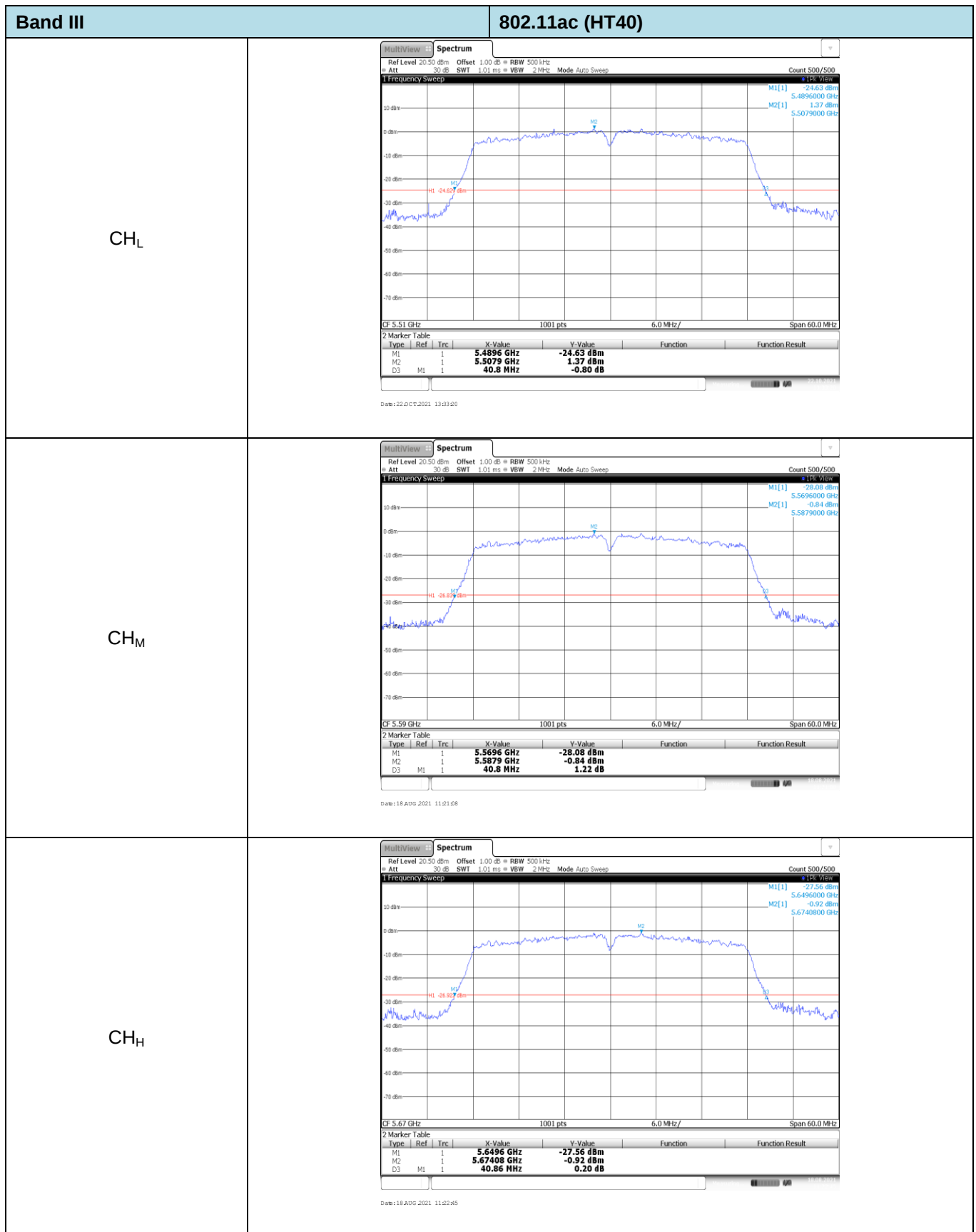


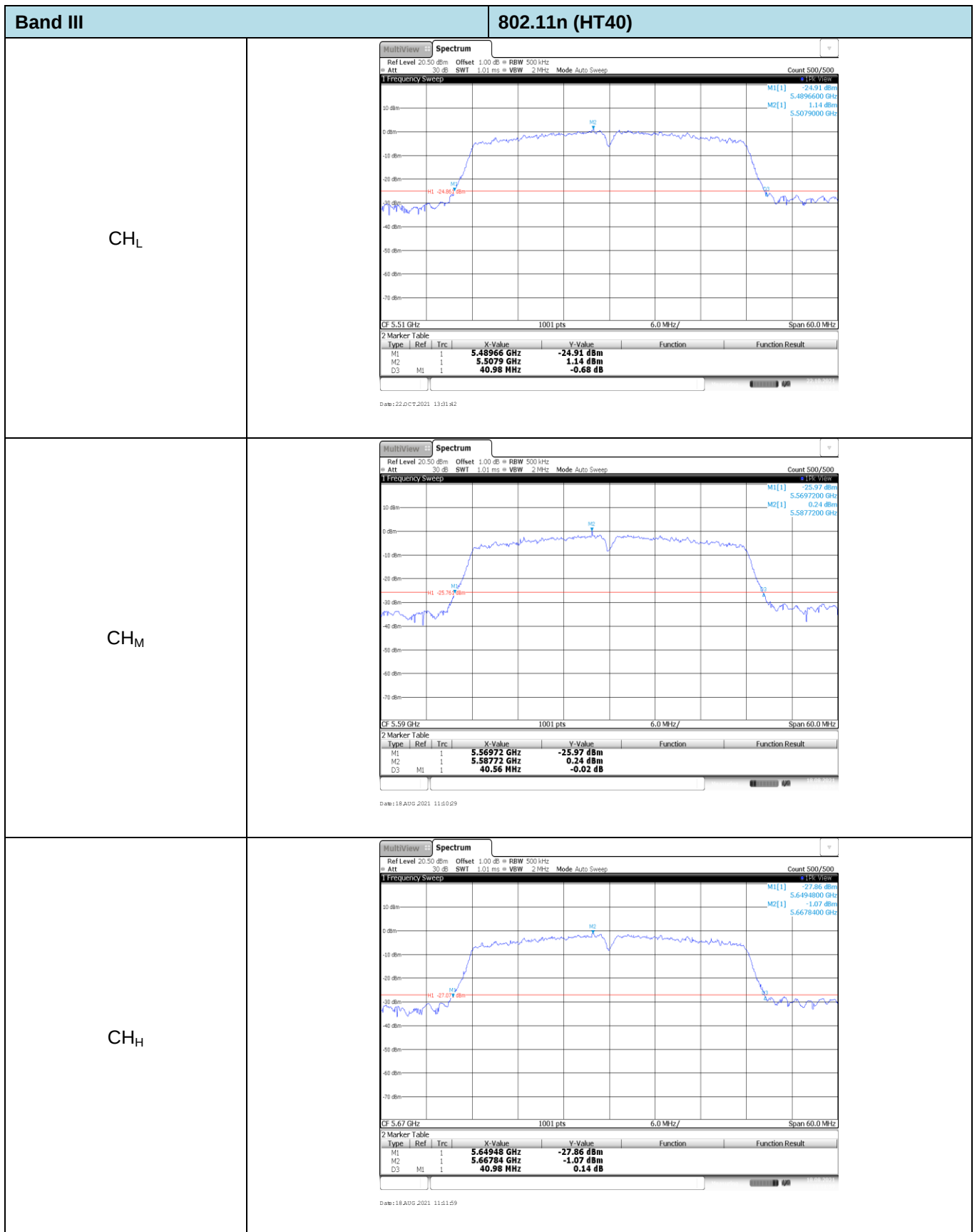


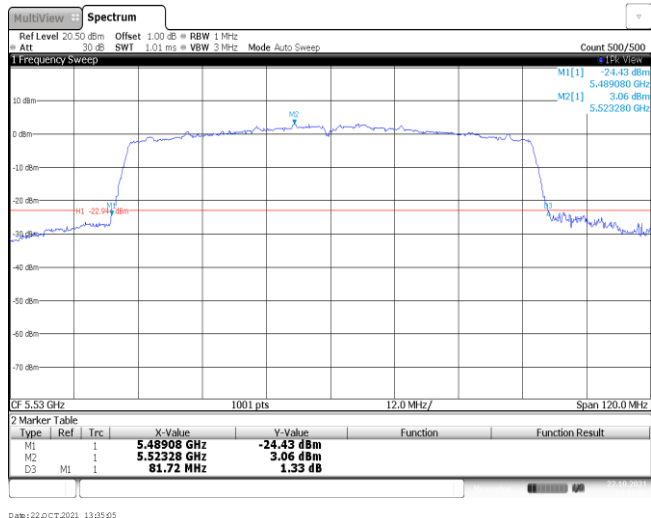
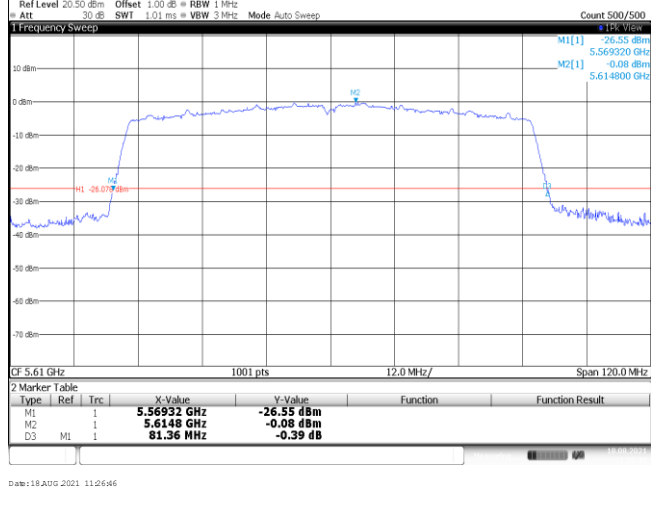
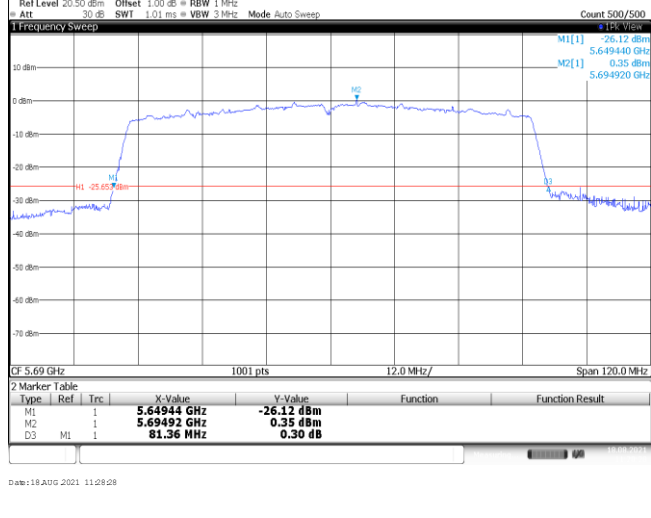










Band III		802.11ac (HT80)																											
CH _L	 Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>5.48908 GHz</td><td>-24.43 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.52328 GHz</td><td>3.06 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td></td><td>61.72 MHz</td><td>1.33 dB</td><td></td><td></td></tr></table> Date: 22 OCT 2021 13:05:05	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.48908 GHz	-24.43 dBm			M2	1		5.52328 GHz	3.06 dBm			D3	M1		61.72 MHz	1.33 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.48908 GHz	-24.43 dBm																									
M2	1		5.52328 GHz	3.06 dBm																									
D3	M1		61.72 MHz	1.33 dB																									
CH _M	 Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 500/500 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>5.56932 GHz</td><td>-26.55 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.6148 GHz</td><td>-0.08 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td></td><td>61.36 MHz</td><td>-0.39 dB</td><td></td><td></td></tr></table> Date: 18 AUG 2021 11:06:46	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.56932 GHz	-26.55 dBm			M2	1		5.6148 GHz	-0.08 dBm			D3	M1		61.36 MHz	-0.39 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.56932 GHz	-26.55 dBm																									
M2	1		5.6148 GHz	-0.08 dBm																									
D3	M1		61.36 MHz	-0.39 dB																									
CH _H	 Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 500/500 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>5.64944 GHz</td><td>-26.12 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.69492 GHz</td><td>0.35 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td></td><td>61.36 MHz</td><td>0.30 dB</td><td></td><td></td></tr></table> Date: 18 AUG 2021 11:09:28	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.64944 GHz	-26.12 dBm			M2	1		5.69492 GHz	0.35 dBm			D3	M1		61.36 MHz	0.30 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.64944 GHz	-26.12 dBm																									
M2	1		5.69492 GHz	0.35 dBm																									
D3	M1		61.36 MHz	0.30 dB																									

Appendix D: 99% Occupy bandwidth

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.56	Pass
			CH _M	17.59	
			CH _H	17.56	
		802.11n	CH _L	17.62	Pass
			CH _M	17.59	
			CH _H	17.62	
		802.11a	CH _L	16.78	Pass
			CH _M	16.81	
			CH _H	16.78	
	40	802.11ac	CH _L	35.90	Pass
			CH _H	35.96	
		802.11n	CH _L	35.96	Pass
			CH _H	36.02	
	80	802.11ac	CH _M	75.05	Pass
II	20	802.11ac	CH _L	17.56	Pass
			CH _M	17.59	
			CH _H	17.59	
		802.11n	CH _L	17.59	Pass
			CH _M	17.62	
			CH _H	17.62	
		802.11a	CH _L	16.78	Pass
			CH _M	16.78	
			CH _H	16.75	
	40	802.11ac	CH _L	35.96	Pass
			CH _H	35.96	
		802.11n	CH _L	36.02	Pass
			CH _H	36.08	
	80	802.11ac	CH _M	75.05	Pass

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
III	20	802.11ac	CH _L	17.59	Pass
			CH _M	17.56	
			CH _H	17.62	
		802.11n	CH _L	17.62	Pass
			CH _M	17.62	
			CH _H	17.65	
		802.11a	CH _L	16.81	Pass
			CH _M	16.81	
			CH _H	16.87	
	40	802.11ac	CH _L	35.96	Pass
			CH _M	35.96	
			CH _H	36.02	
		802.11n	CH _L	36.14	Pass
			CH _M	36.14	
			CH _H	36.14	
	80	802.11ac	CH _L	75.17	Pass
			CH _M	75.16	
			CH _H	75.16	

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.89	Pass
			CH _M	17.89	
			CH _H	17.89	
		802.11n	CH _L	17.86	Pass
			CH _M	17.89	
			CH _H	17.92	
		802.11a	CH _L	16.93	Pass
			CH _M	16.99	
			CH _H	17.02	
	40	802.11ac	CH _L	36.32	Pass
			CH _H	36.38	
		802.11n	CH _L	36.47	Pass
			CH _H	36.47	
	80	802.11ac	CH _M	75.64	Pass

