

APPENDIX REPORT

Project No.	SHT2101090701EW	Radio Specification	WIFI 5G
Test sample No.	YPHT21010907009	Model No.	i-Scan
Start test date	2021-02-09	Finish date	2021-02-09
Temperature	23.6°C	Humidity	47%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

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	Band width (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Conducted Output Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
I	20	802.11ac	CH _L	9.64	7.63	100	100	0	0	9.64	7.63	11.76	24.00	Pass
			CH _M	10.58	8.58	100	100	0	0	10.58	8.58	12.70		
			CH _H	11.07	9.08	100	100	0	0	11.07	9.08	13.20		
		802.11n	CH _L	10.03	8.32	100	100	0	0	10.03	8.32	12.27	24.00	Pass
			CH _M	10.86	8.81	100	100	0	0	10.86	8.81	12.97		
			CH _H	11.33	9.19	100	100	0	0	11.33	9.19	13.40		
		802.11a	CH _L	12.27	11.23	100	100	0	0	12.27	11.23	-	24.00	Pass
			CH _M	13.47	11.58	100	100	0	0	13.47	11.58	-		
			CH _H	14.01	11.98	100	100	0	0	14.01	11.98	-		
	40	802.11ac	CH _L	10.61	8.75	100	100	0	0	10.61	8.75	12.79	24.00	Pass
			CH _H	11.46	9.79	100	100	0	0	11.46	9.79	13.72		
		802.11n	CH _L	10.60	8.72	100	100	0	0	10.60	8.72	12.77	24.00	Pass
			CH _H	11.56	9.90	100	100	0	0	11.56	9.90	13.82		
	80	802.11ac	CH _M	10.45	8.79	100	100	0	0	10.45	8.79	12.71	24.00	Pass

Band	Band width (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Conducted Output Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
II	20	802.11ac	CH _L	11.21	8.32	100	100	0	0	11.21	8.32	13.01	24.00	Pass
			CH _M	10.52	7.81	100	100	0	0	10.52	7.81	12.38		
			CH _H	10.30	7.69	100	100	0	0	10.30	7.69	12.20		
		802.11n	CH _L	11.41	9.23	100	100	0	0	11.41	9.23	13.47	24.00	Pass
			CH _M	10.99	8.55	100	100	0	0	10.99	8.55	12.95		
			CH _H	10.61	8.21	100	100	0	0	10.61	8.21	12.58		
		802.11a	CH _L	13.38	11.87	100	100	0	0	13.38	11.87	-	24.00	Pass
			CH _M	12.99	11.14	100	100	0	0	12.99	11.14	-		
			CH _H	12.54	10.73	100	100	0	0	12.54	10.73	-		
	40	802.11ac	CH _L	11.79	8.93	100	100	0	0	11.79	8.93	13.60	24.00	Pass
			CH _H	11.19	8.62	100	100	0	0	11.19	8.62	13.10		
		802.11n	CH _L	12.01	8.76	100	100	0	0	12.01	8.76	13.69	24.00	Pass
			CH _H	11.21	8.52	100	100	0	0	11.21	8.52	13.08		
	80	802.11ac	CH _M	11.02	8.09	100	100	0	0	11.02	8.09	12.81	24.00	Pass

Band	Band width (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Conducted Output Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
IV	20	802.11ac	CH _L	10.87	8.46	100	100	0	0	10.87	8.46	12.84	30.00	Pass
			CH _M	10.90	8.41	100	100	0	0	10.90	8.41	12.84		
			CH _H	11.27	8.66	100	100	0	0	11.27	8.66	13.17		
		802.11n	CH _L	11.99	9.28	100	100	0	0	11.99	9.28	13.85	30.00	Pass
			CH _M	11.69	9.04	100	100	0	0	11.69	9.04	13.57		
			CH _H	11.81	9.20	100	100	0	0	11.81	9.20	13.71		
		802.11a	CH _L	14.01	11.60	100	100	0	0	14.01	11.60	-	30.00	Pass
			CH _M	14.10	11.49	100	100	0	0	14.10	11.49	-		
			CH _H	14.29	11.57	100	100	0	0	14.29	11.57	-		
	40	802.11ac	CH _L	10.95	8.88	100	100	0	0	10.95	8.88	13.05	30.00	Pass
			CH _H	11.18	8.72	100	100	0	0	11.18	8.72	13.13		
		802.11n	CH _L	11.57	9.36	100	100	0	0	11.57	9.36	13.61	30.00	Pass
			CH _H	11.59	9.22	100	100	0	0	11.59	9.22	13.58		
	80	802.11ac	CH _M	10.60	8.30	100	100	0	0	10.60	8.30	12.61	30.00	Pass

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

Appendix B: Maximum Power Spectral Density

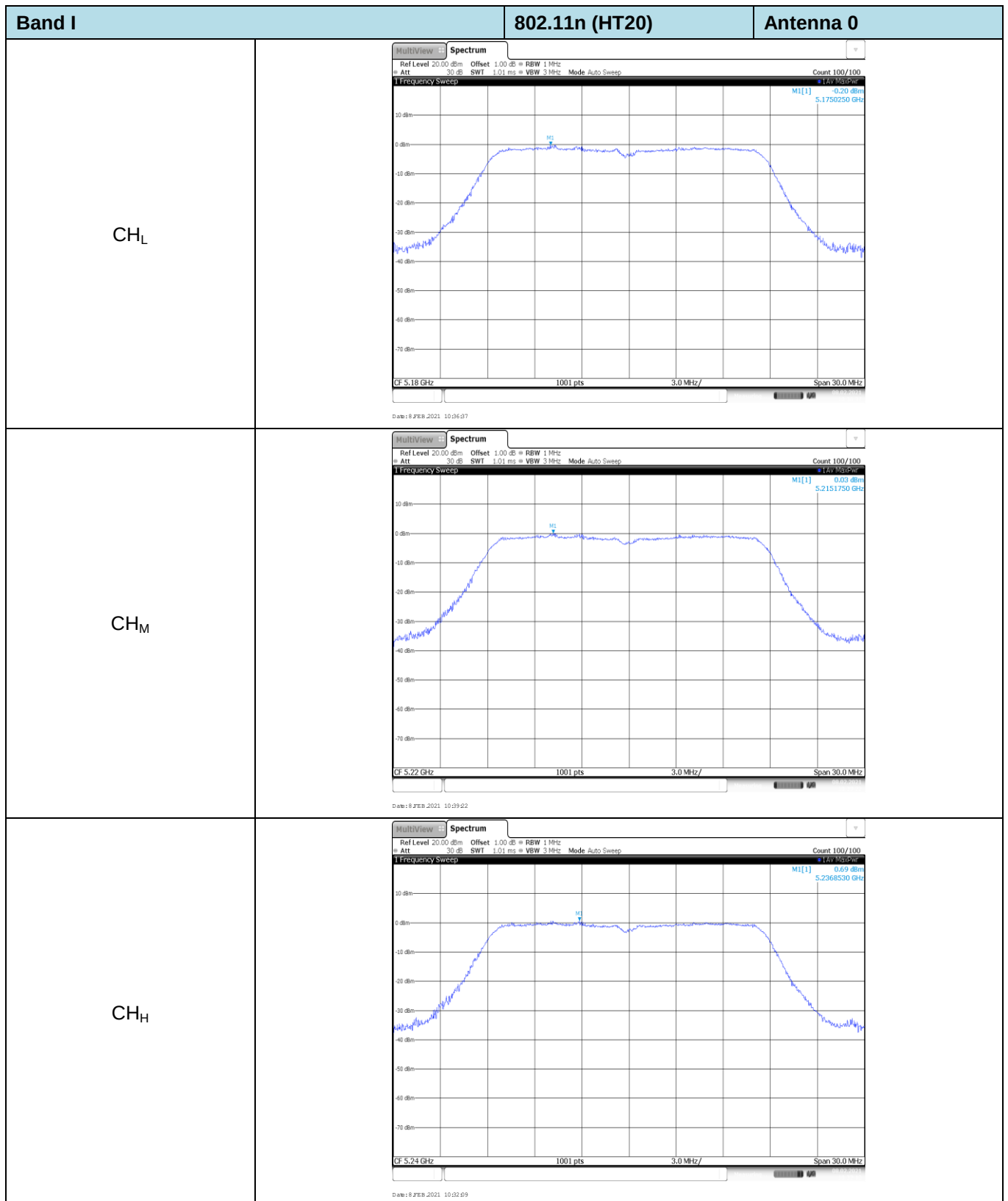
Band	Band width (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/MHz)		Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
I	20	802.11ac	CH _L	-0.42	-2.73	100	100	0	0	-0.42	-2.73	1.59	11.00	Pass
			CH _M	-0.22	-2.32	100	100	0	0	-0.22	-2.32	1.87		
			CH _H	0.55	-1.98	100	100	0	0	0.55	-1.98	2.48		
		802.11n	CH _L	-0.20	-2.19	100	100	0	0	-0.20	-2.19	1.93	11.00	Pass
			CH _M	0.03	-2.22	100	100	0	0	0.03	-2.22	2.06		
			CH _H	0.69	-2.10	100	100	0	0	0.69	-2.10	2.53		
		802.11a	CH _L	2.14	0.88	100	100	0	0	2.14	0.88	-	11.00	Pass
			CH _M	2.75	0.67	100	100	0	0	2.75	0.67	-		
			CH _H	3.29	1.05	100	100	0	0	3.29	1.05	-		
	40	802.11ac	CH _L	-3.05	-4.98	100	100	0	0	-3.05	-4.98	-0.90	11.00	Pass
			CH _H	-2.34	-4.08	100	100	0	0	-2.34	-4.08	-0.11		
		802.11n	CH _L	-3.21	-4.54	100	100	0	0	-3.21	-4.54	-0.81	11.00	Pass
			CH _H	-2.54	-4.06	100	100	0	0	-2.54	-4.06	-0.22		
	80	802.11ac	CH _M	-5.39	-7.24	100	100	0	0	-5.39	-7.24	-3.21	11.00	Pass

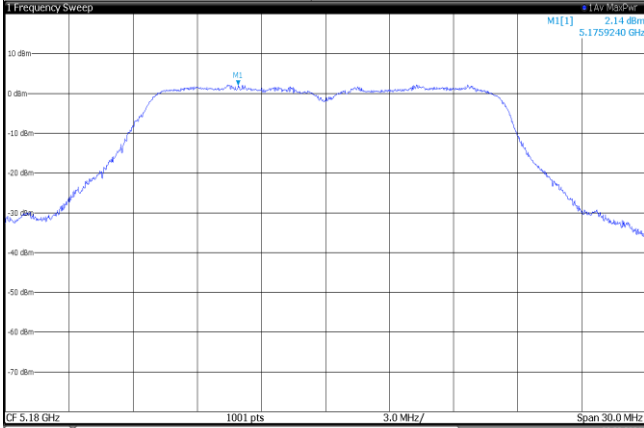
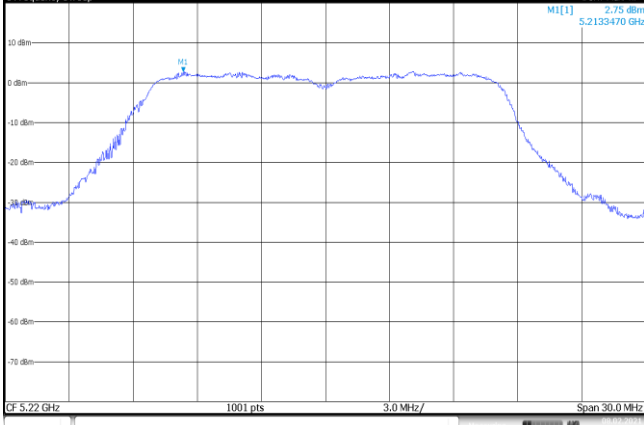
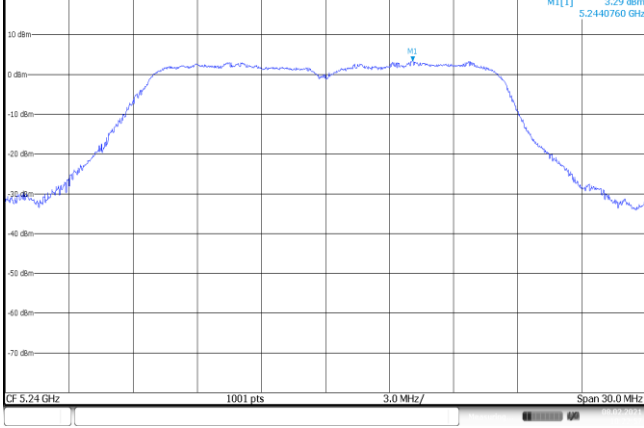
Band	Band width (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/MHz)		Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
II	20	802.11ac	CH _L	0.63	-2.36	100	100	0	0	0.63	-2.36	2.40	11.00	Pass
			CH _M	-0.09	-3.16	100	100	0	0	-0.09	-3.16	1.65		
			CH _H	-0.06	-2.60	100	100	0	0	-0.06	-2.60	1.86		
		802.11n	CH _L	0.69	-1.54	100	100	0	0	0.69	-1.54	2.73	11.00	Pass
			CH _M	0.36	-2.04	100	100	0	0	0.36	-2.04	2.33		
			CH _H	-0.12	-2.18	100	100	0	0	-0.12	-2.18	1.98		
		802.11a	CH _L	2.53	1.02	100	100	0	0	2.53	1.02	-	11.00	Pass
			CH _M	2.68	0.82	100	100	0	0	2.68	0.82	-		
			CH _H	2.28	0.13	100	100	0	0	2.28	0.13	-		
	40	802.11ac	CH _L	-1.76	-5.01	100	100	0	0	-1.76	-5.01	-0.08	11.00	Pass
			CH _H	-2.18	-5.14	100	100	0	0	-2.18	-5.14	-0.40		
		802.11n	CH _L	-1.78	-4.71	100	100	0	0	-1.78	-4.71	0.01	11.00	Pass
			CH _H	-1.97	-5.30	100	100	0	0	-1.97	-5.30	-0.31		
	80	802.11ac	CH _M	-4.66	-8.16	100	100	0	0	-4.66	-8.16	-3.06	11.00	Pass

Band	Band width (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/500kHz)		Total PSD (dBm/MHz)	Limit (dBm/500KHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
IV	20	802.11ac	CH _L	-0.77	-3.14	100	100	0	0	-0.77	-3.14	1.22	30.00	Pass
			CH _M	-1.62	-3.90	100	100	0	0	-1.62	-3.90	0.40		
			CH _H	-1.01	-3.58	100	100	0	0	-1.01	-3.58	0.90		
		802.11n	CH _L	0.07	-2.90	100	100	0	0	0.07	-2.90	1.84	30.00	Pass
			CH _M	-1.00	-3.16	100	100	0	0	-1.00	-3.16	1.06		
			CH _H	-0.36	-3.24	100	100	0	0	-0.36	-3.24	1.44		
		802.11a	CH _L	2.31	-0.16	100	100	0	0	2.31	-0.16	-	30.00	Pass
			CH _M	1.72	-1.02	100	100	0	0	1.72	-1.02	-		
			CH _H	2.41	-0.83	100	100	0	0	2.41	-0.83	-		
	40	802.11ac	CH _L	-4.04	-6.08	100	100	0	0	-4.04	-6.08	-0.93	30.00	Pass
			CH _H	-4.54	-6.91	100	100	0	0	-4.54	-6.91	-2.56		
		802.11n	CH _L	-3.70	-5.52	100	100	0	0	-3.70	-5.52	-1.51	30.00	Pass
			CH _H	-3.92	-6.28	100	100	0	0	-3.92	-6.28	-1.93		
	80	802.11ac	CH _M	-7.41	-9.48	100	100	0	0	-7.41	-9.48	-5.31	30.00	Pass

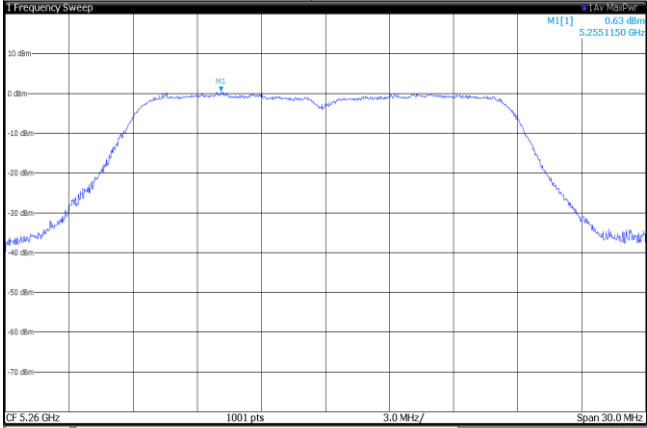
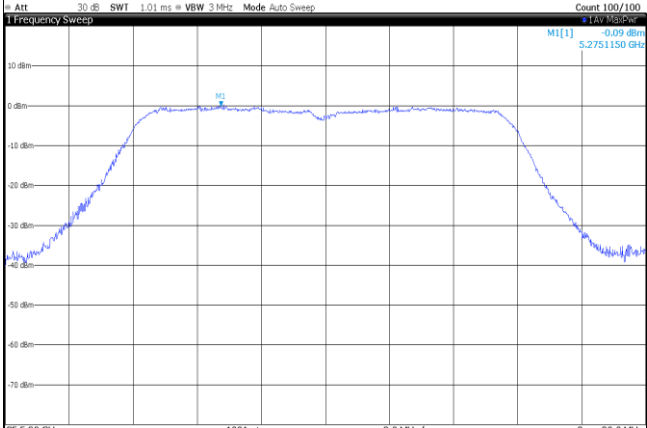
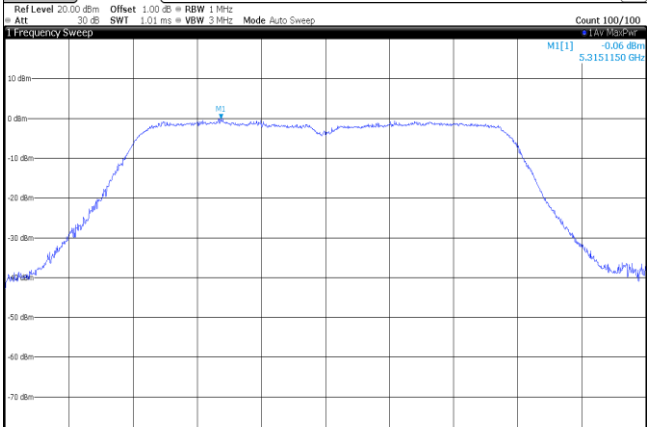
Test plot as follows:

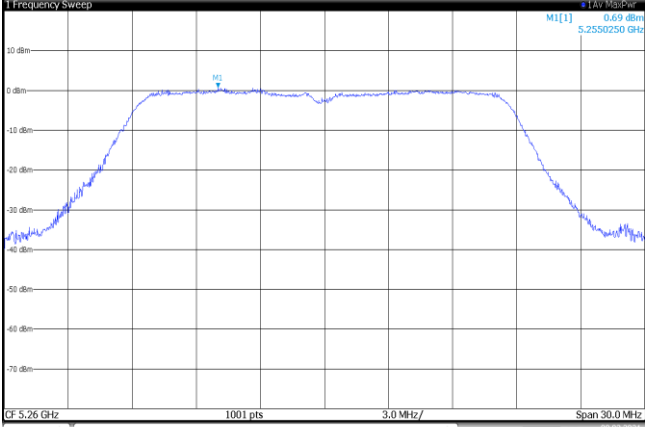
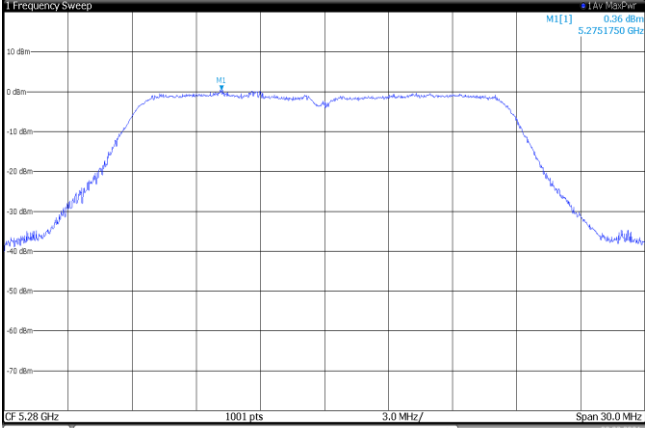
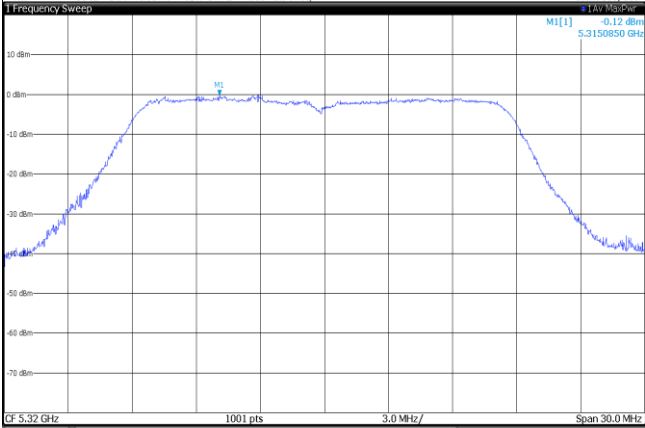
Band I		802.11ac (HT20)	Antenna 0
CH _L	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz MI[1] -0.42 dBm 5.1751750 GHz Date: 9 FEB 2021 10:44:26		
CH _M	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz MI[1] -0.22 dBm 5.2150850 GHz Date: 9 FEB 2021 10:46:56		
CH _H	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz MI[1] 0.35 dBm 5.2351750 GHz Date: 9 FEB 2021 10:40:59		

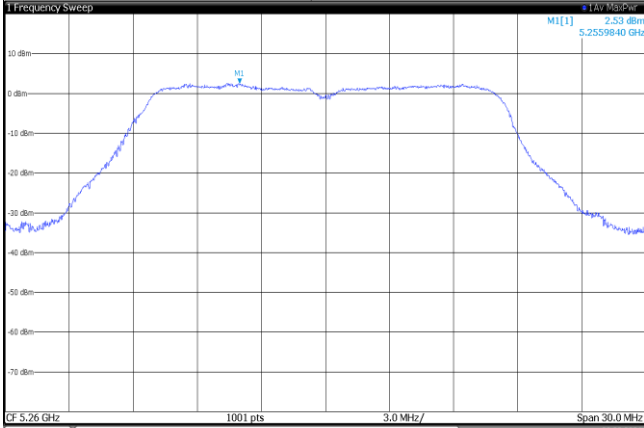
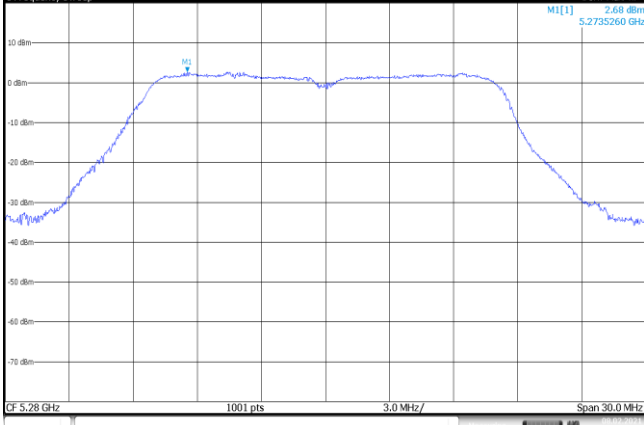
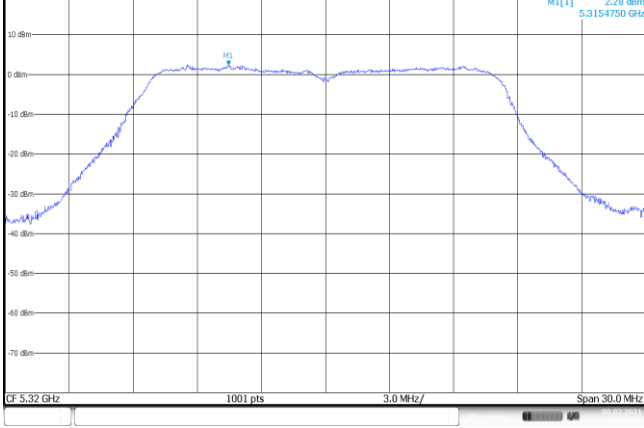


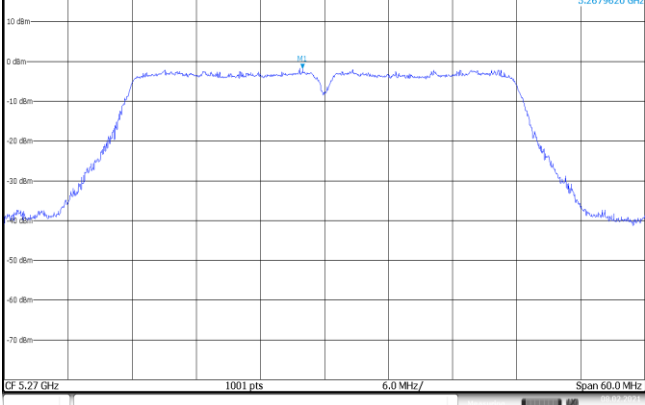
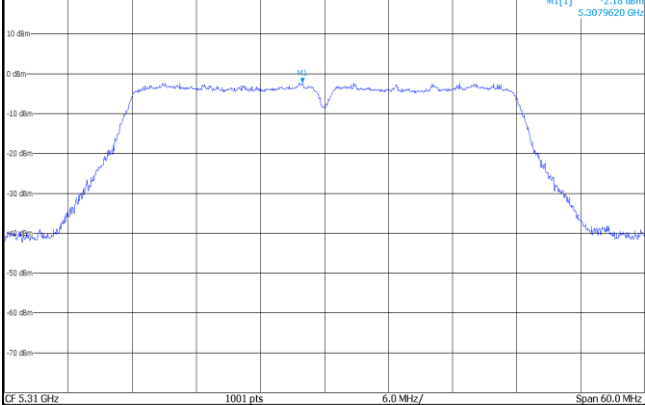
Band I	802.11a	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep M1[1] 2.14 dBm 5.1759240 GHz  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 10:19:50	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep M1[1] 2.75 dBm 5.2133470 GHz  CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 10:21:45	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep M1[1] 3.29 dBm 5.2440760 GHz  CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 10:22:56	

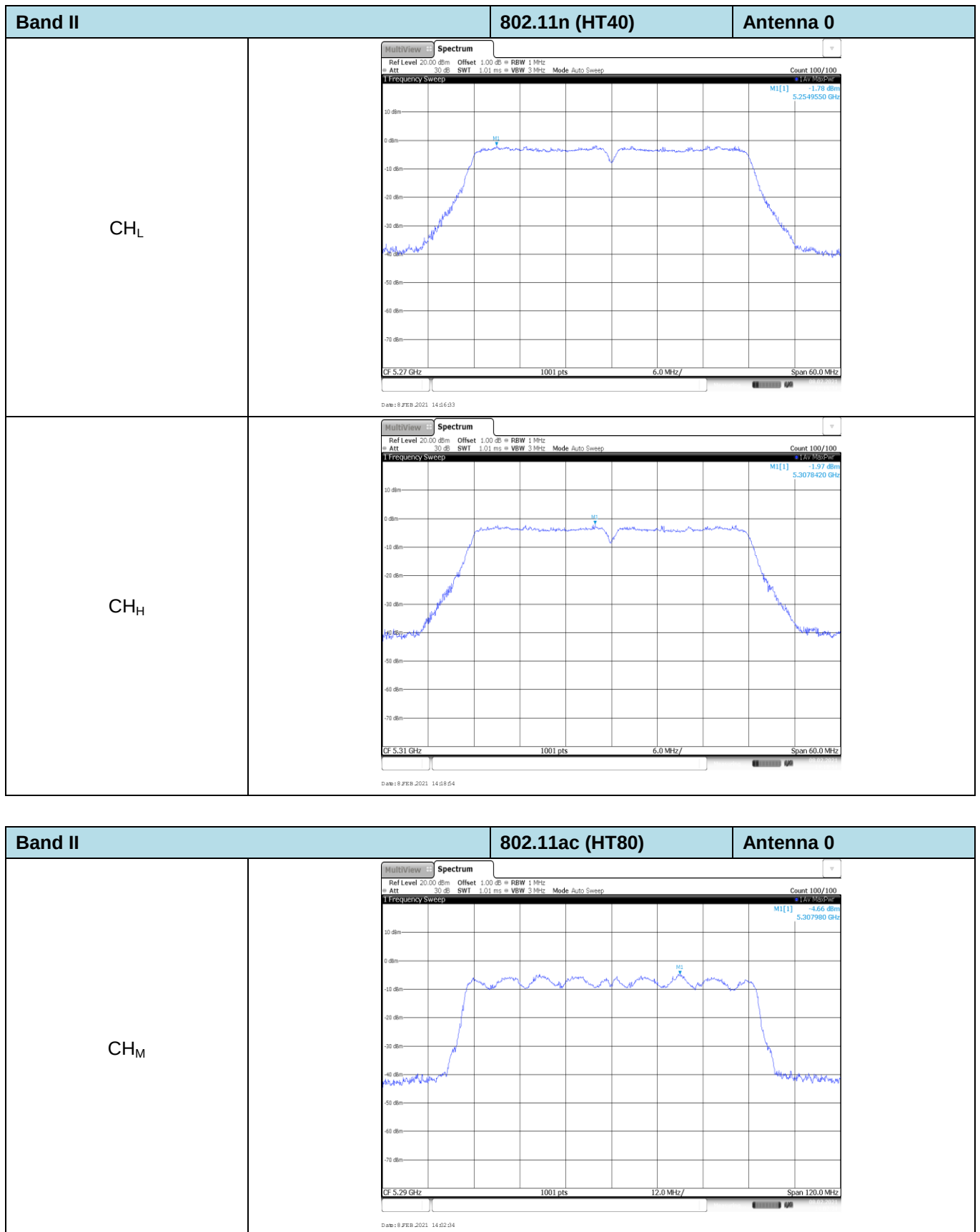
Band I		802.11n (HT40)	Antenna 0
CH _L	Frequency Sweep Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] -3.21 dBm 5.1879620 GHz 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 10:51:06		
CH _H	Frequency Sweep Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] -2.54 dBm 5.2437860 GHz 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 10:49:11		
Band I		802.11ac (HT80)	Antenna 0
CH _M	Frequency Sweep Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] -3.39 dBm 5.227260 GHz 5.21 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 8 FEB 2021 11:00:22		

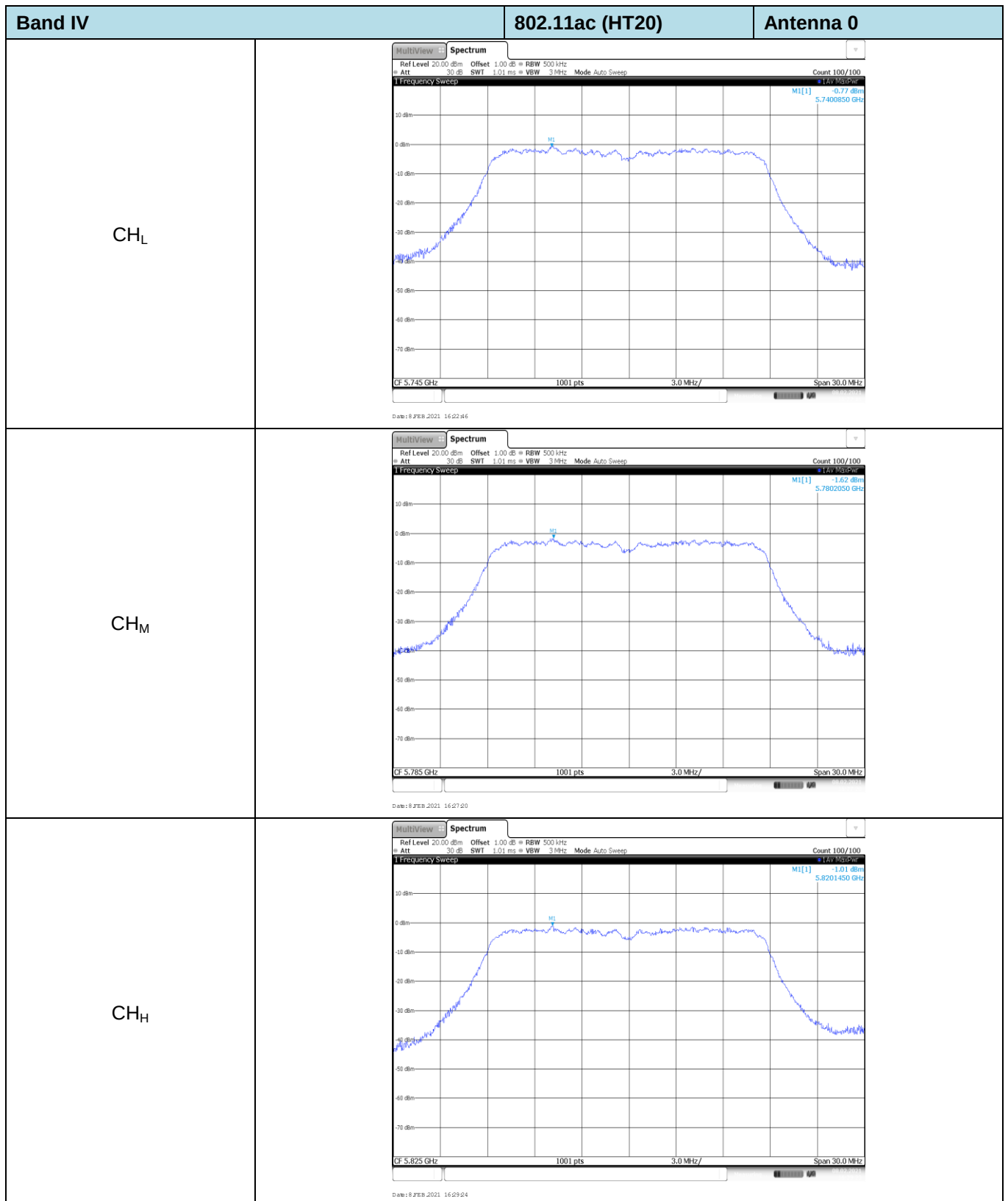
Band II	802.11ac (HT20)		Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30.0 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MdBm Frequency Sweep MU[1] -0.63 dBm 5.2551150 GHz  CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:21:23		
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30.0 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MdBm Frequency Sweep MU[1] -0.09 dBm 5.2751150 GHz  CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:26:01		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30.0 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MdBm Frequency Sweep MU[1] -0.06 dBm 5.3151150 GHz  CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:28:58		

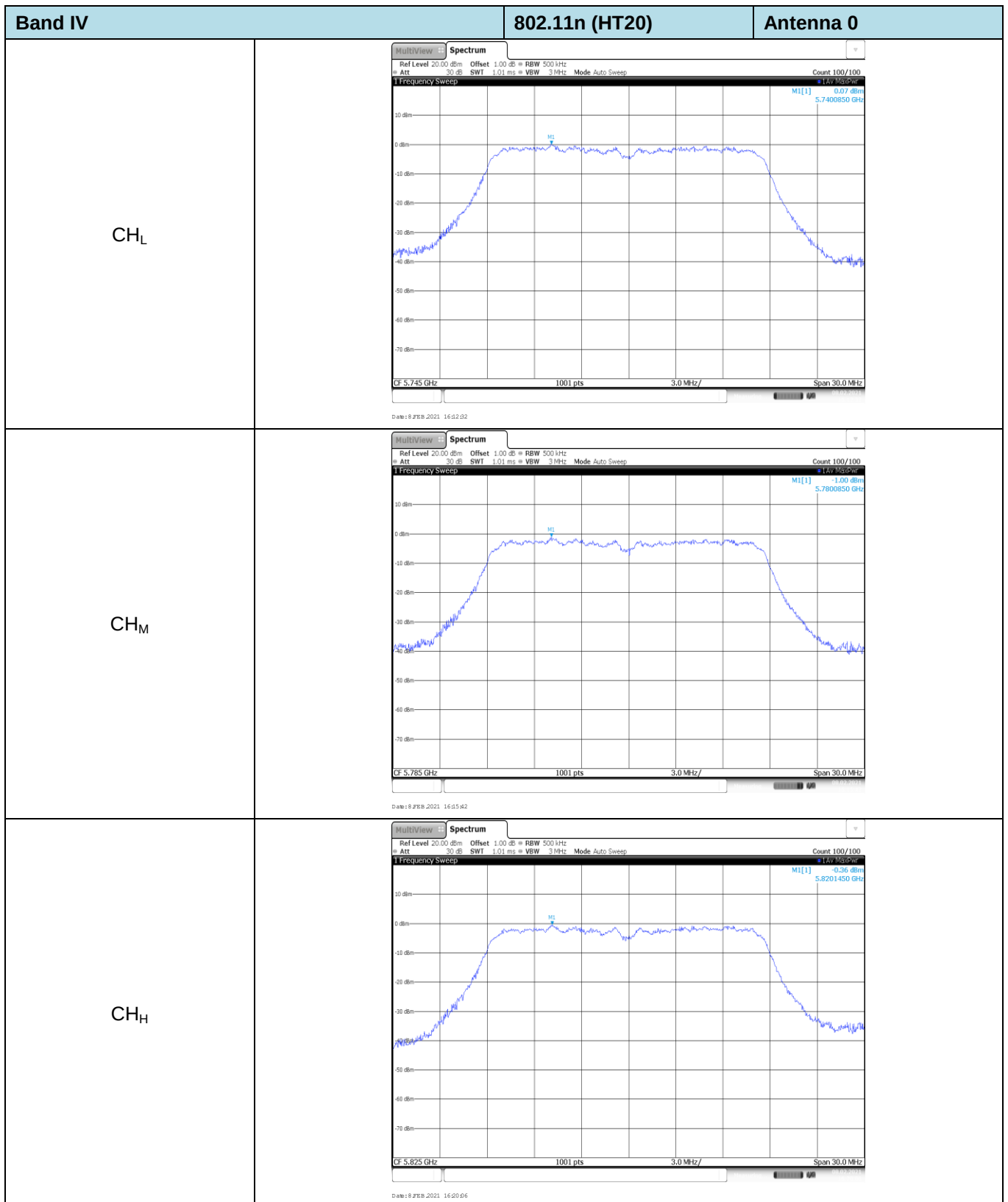
Band II		802.11n (HT20)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 TAT MS/μs Frequency Sweep MU[1] 0.69 dBm 5.2550250 GHz  CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:34:28		
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 TAT MS/μs Frequency Sweep MU[1] 0.36 dBm 5.2751750 GHz  CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:36:45		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 TAT MS/μs Frequency Sweep MU[1] -0.12 dBm 5.3150850 GHz  CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:38:05		

Band II	802.11a	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT M50P4W 1 Frequency Sweep MU[1] 2.53 dBm 5.2559840 GHz  CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:43:45	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT M50P4W 1 Frequency Sweep MU[1] 2.68 dBm 5.2735260 GHz  CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:45:08	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT M50P4W 1 Frequency Sweep MU[1] 2.28 dBm 5.3154750 GHz  CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 14:47:27	

Band II		802.11ac (HT40)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm = Att 30 dB Offset 1.00 dB = RBW 1 MHz = SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MS/Power 1 Frequency Sweep MU[1] -1.76 dBm 5.2679620 GHz  CF 5.27 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 14:11:17		
CH _H	MultiView Spectrum Ref Level 20.00 dBm = Att 30 dB Offset 1.00 dB = RBW 1 MHz = SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MS/Power 1 Frequency Sweep MU[1] -2.18 dBm 5.3079620 GHz  CF 5.31 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 14:09:37		

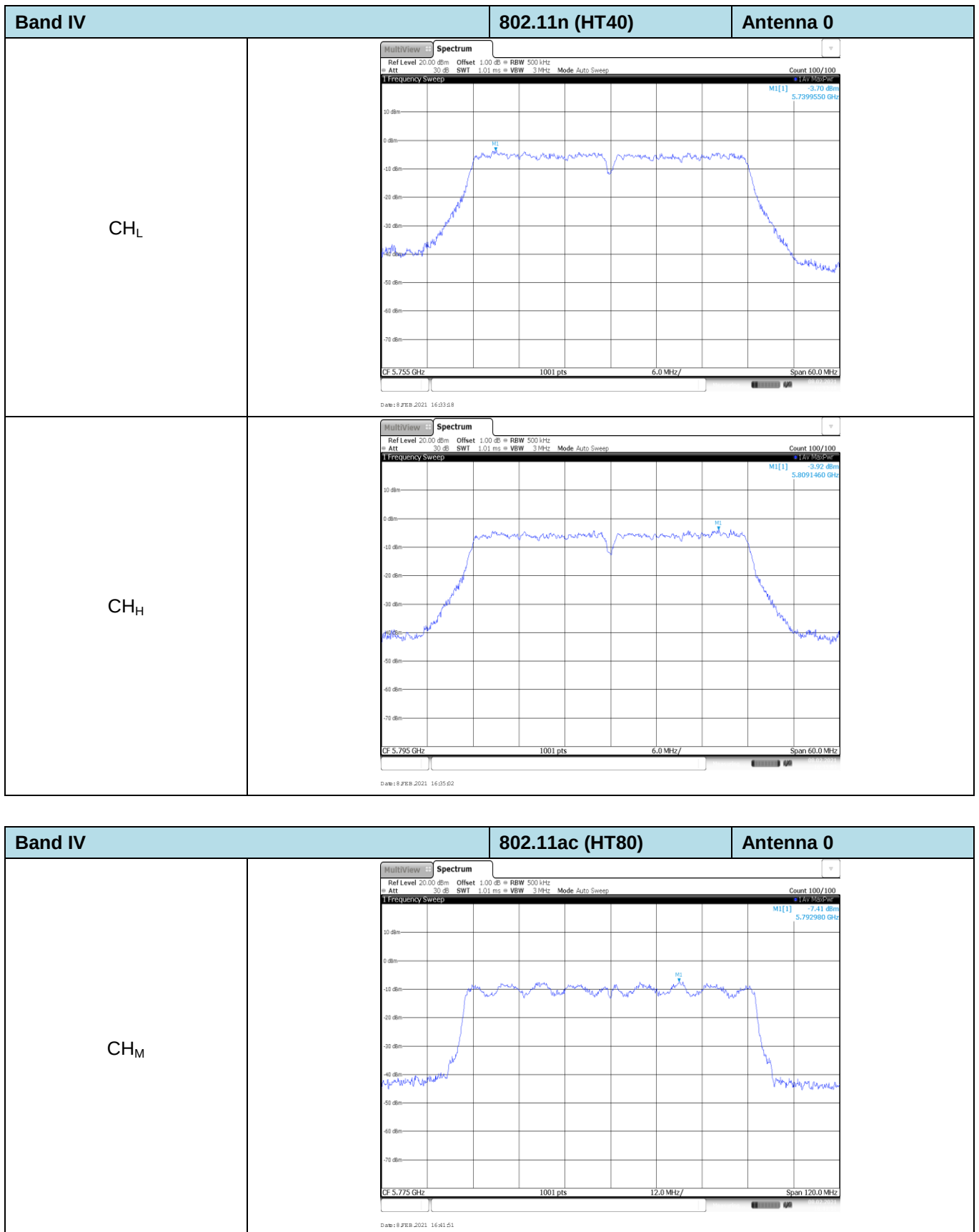






Band IV	802.11a	Antenna 0
CH _L	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VEW 3 MHz Mode Auto Sweep Count 100/100 5.7503650 GHz Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 16:05:58	
CH _M	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VEW 3 MHz Mode Auto Sweep Count 100/100 5.7904250 GHz Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 16:07:25	
CH _H	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VEW 3 MHz Mode Auto Sweep Count 100/100 5.8303650 GHz Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 16:08:05	

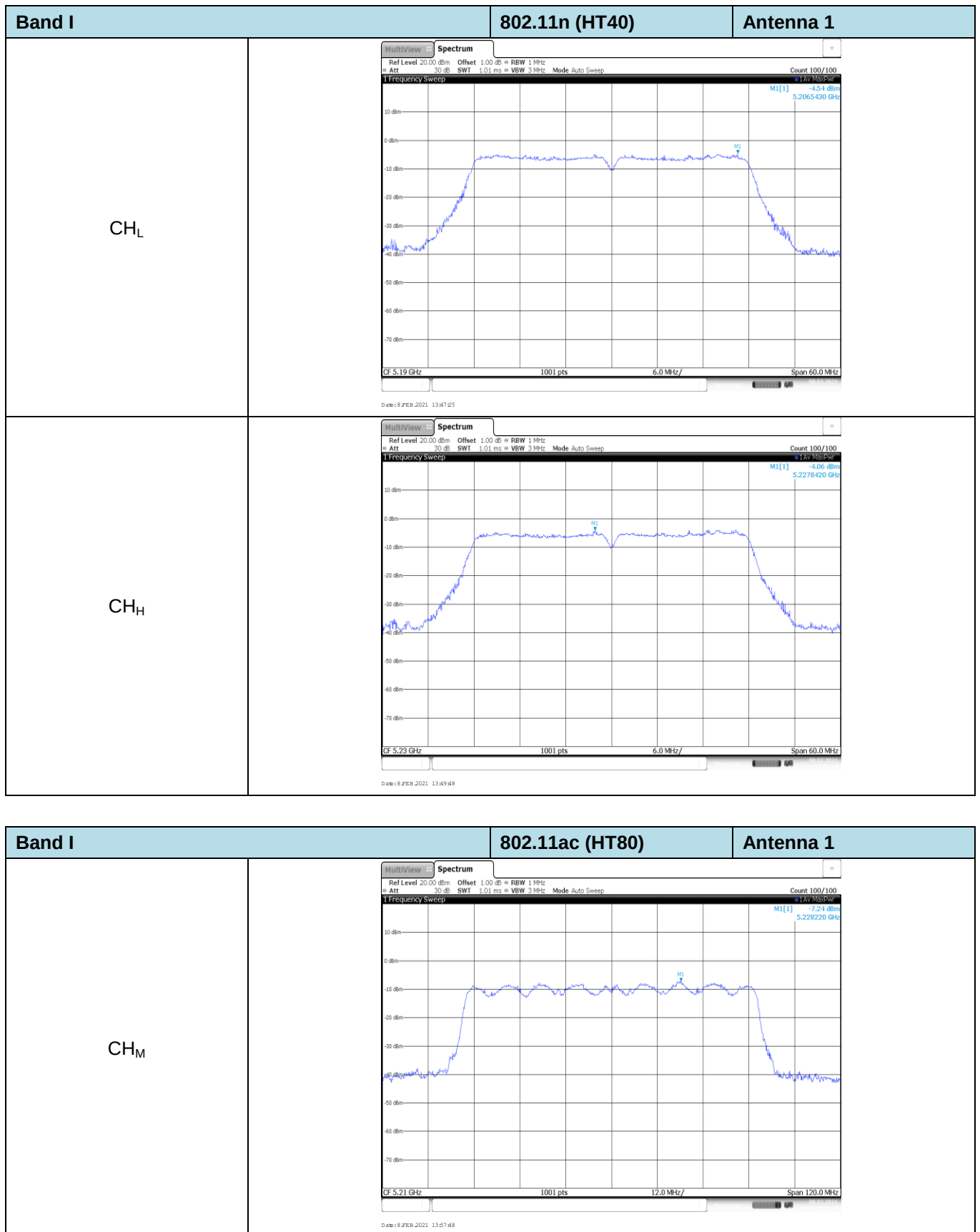
Band IV		802.11ac (HT40)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -4.04 dBm 5.7395350 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 16:07:55		
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] -4.54 dBm 5.8091460 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 16:09:15		

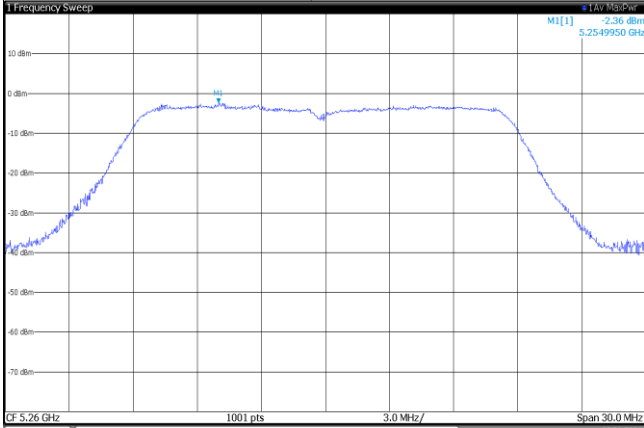
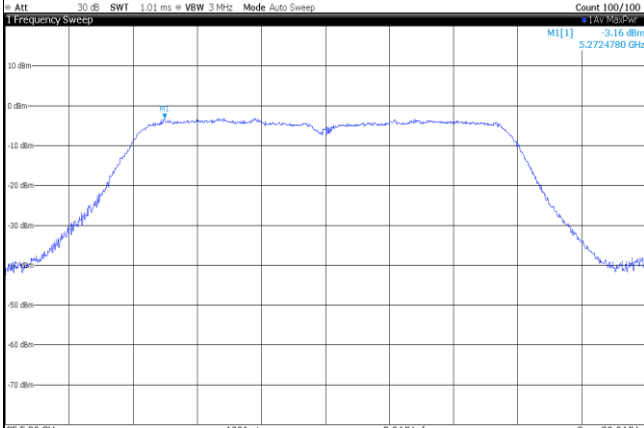
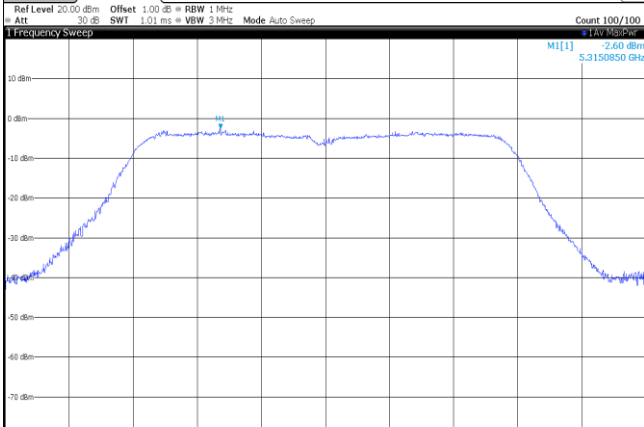


Band I	802.11n (HT20)		Antenna 1
CH _L	</		

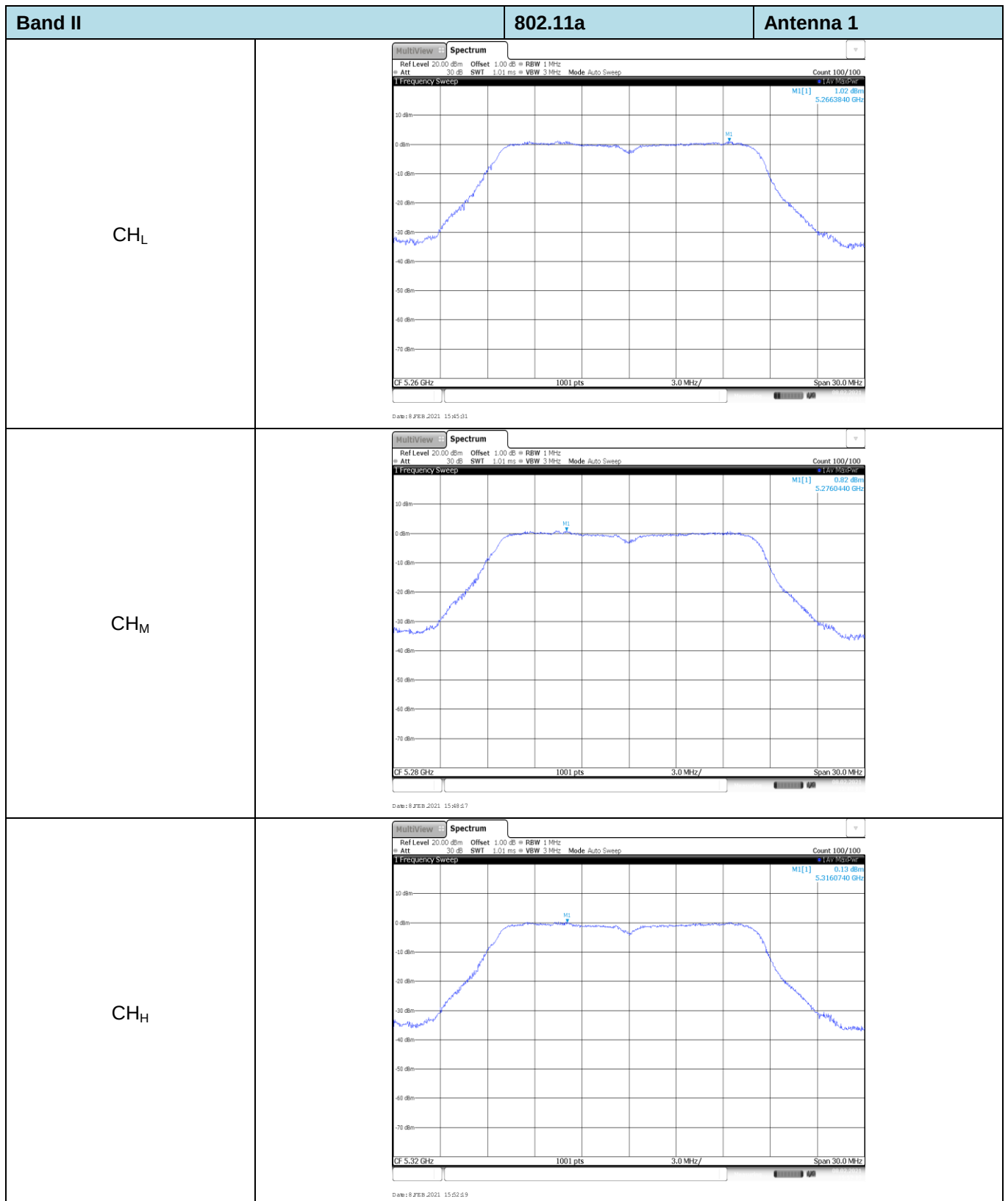
Band I	802.11a	Antenna 1
CH _L	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VEW 3 MHz Mode Auto Sweep Count 100/100 5.1736460 GHz 1 Frequency Sweep M1[1] 0.88 dBm 5.1736460 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 13:22:27	
CH _M	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VEW 3 MHz Mode Auto Sweep Count 100/100 5.2263240 GHz 1 Frequency Sweep M1[1] 0.67 dBm 5.2263240 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 13:24:49	
CH _H	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VEW 3 MHz Mode Auto Sweep Count 100/100 5.2463840 GHz 1 Frequency Sweep M1[1] 1.05 dBm 5.2463840 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 13:26:08	

Band I	802.11ac (HT40)	Antenna 1
CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1 [1] -4.98 dBm 5.1750150 GHz Frequency Sweep 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 13:53:08	
CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1 [1] -4.08 dBm 5.2440260 GHz Frequency Sweep 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 13:55:26	

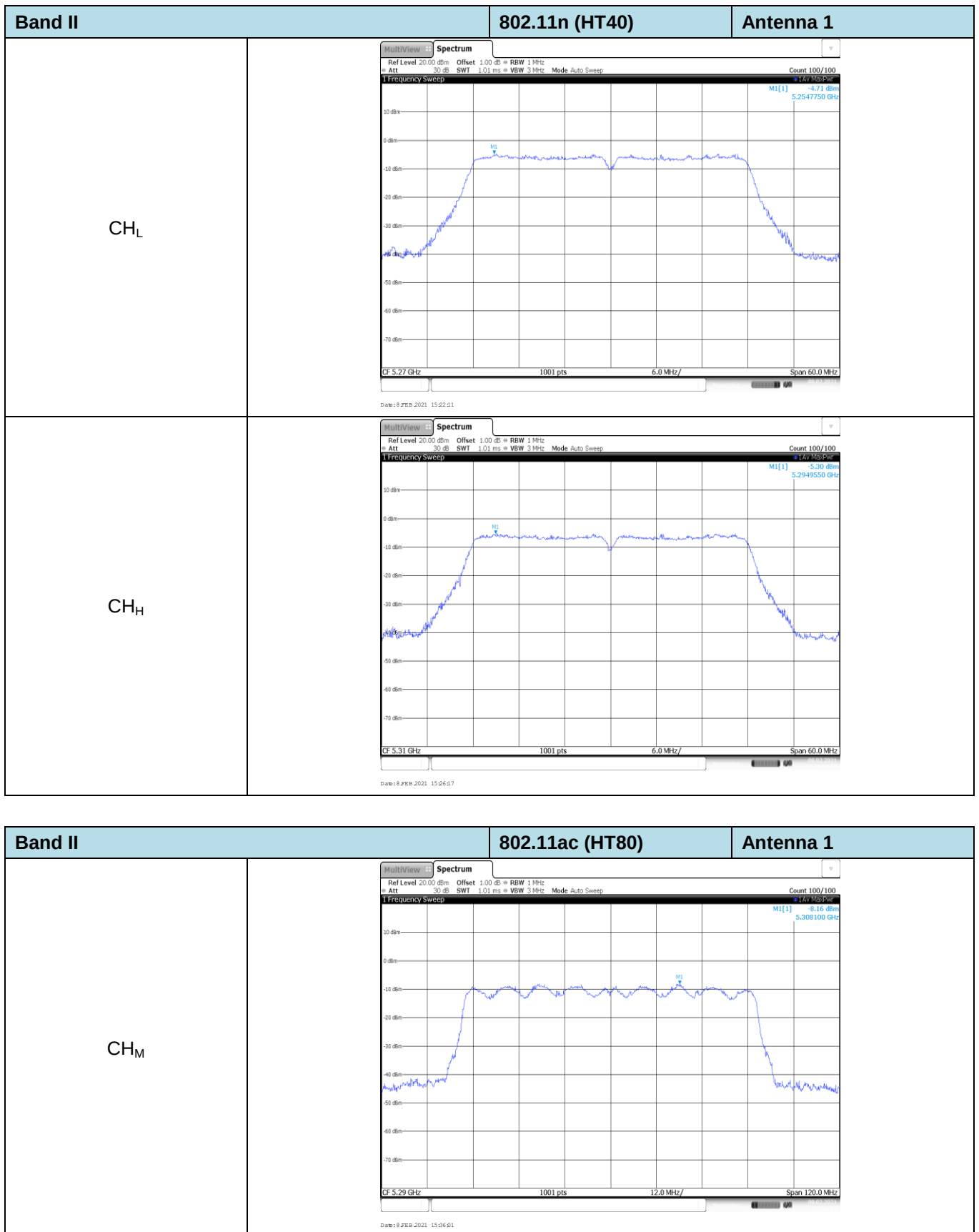


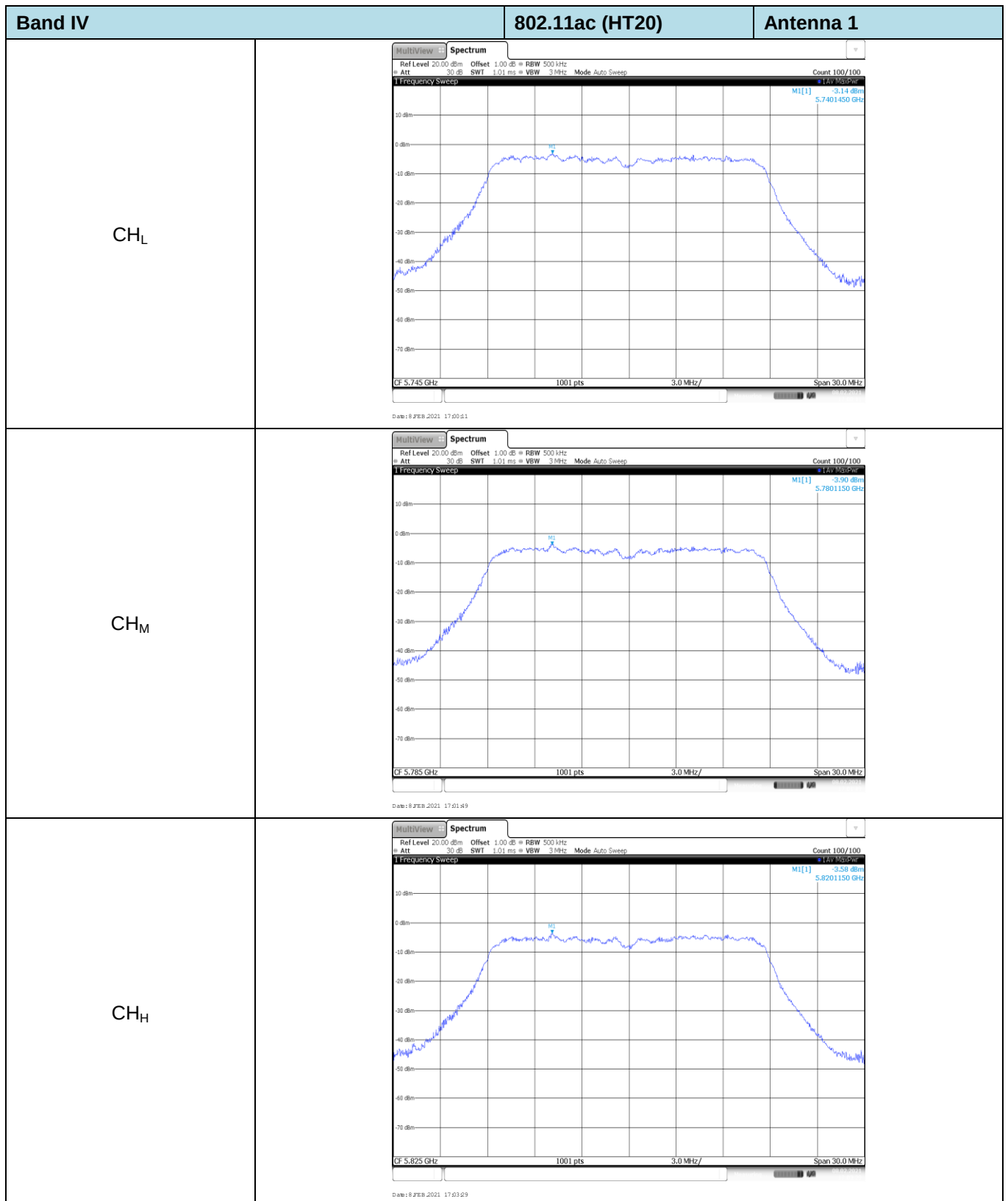
Band II	802.11ac (HT20)		Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -2.36 dBm 5.2549950 GHz  CF 5.26 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 8 FEB 2021 15:11:09		
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -3.16 dBm 5.2724780 GHz  CF 5.28 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 8 FEB 2021 15:14:09		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -2.60 dBm 5.3150850 GHz  CF 5.32 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 8 FEB 2021 15:19:03		

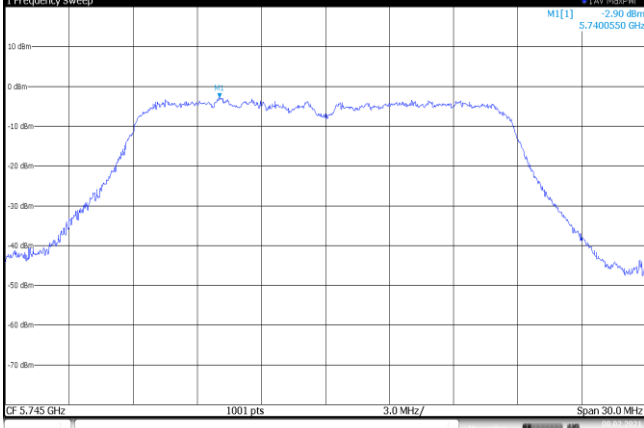
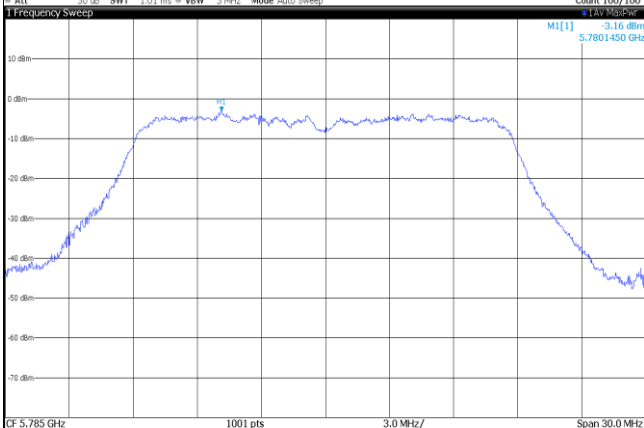
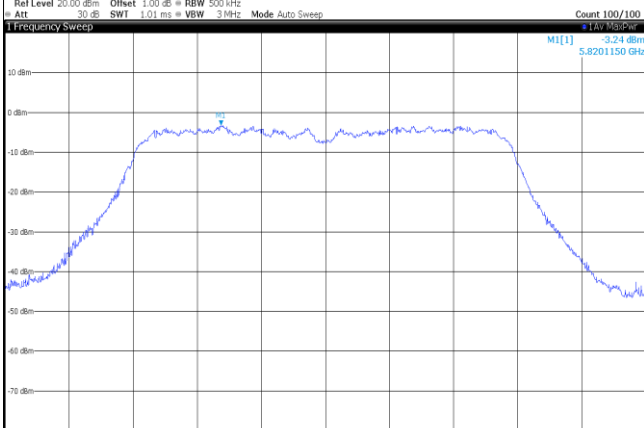
Band II	802.11n (HT20)	Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -1.54 dBm 5.2552050 GHz CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 15:00:48	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -2.04 dBm 5.2752950 GHz CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 15:03:59	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -2.18 dBm 5.3151150 GHz CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 15:07:22	

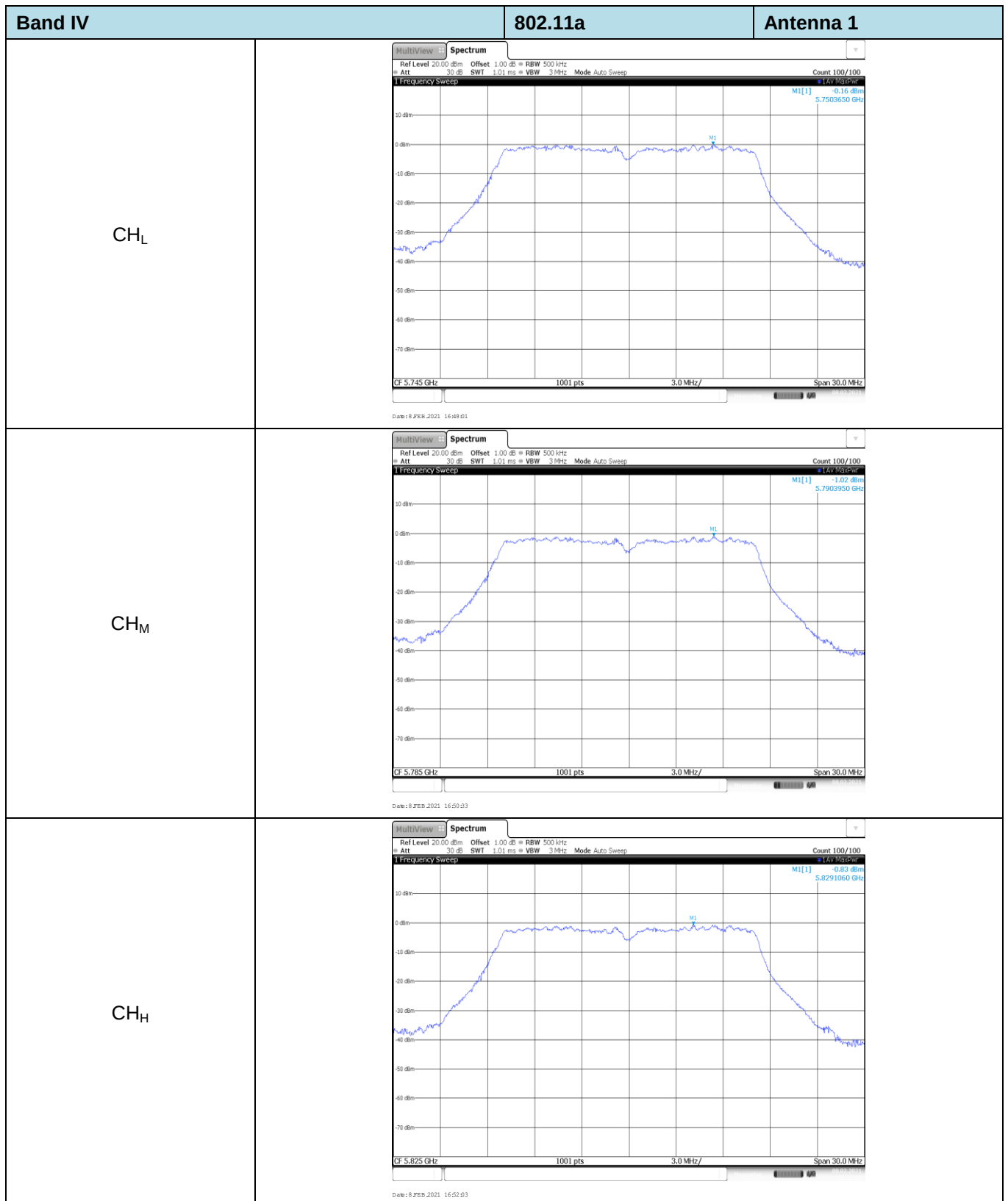


Band II		802.11ac (HT40)	Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm MU[1] -5.01 dBm 5.2676620 GHz CF 5.27 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 15:29:16		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm MU[1] -5.14 dBm 5.3077220 GHz CF 5.31 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 8 FEB 2021 15:03:15		

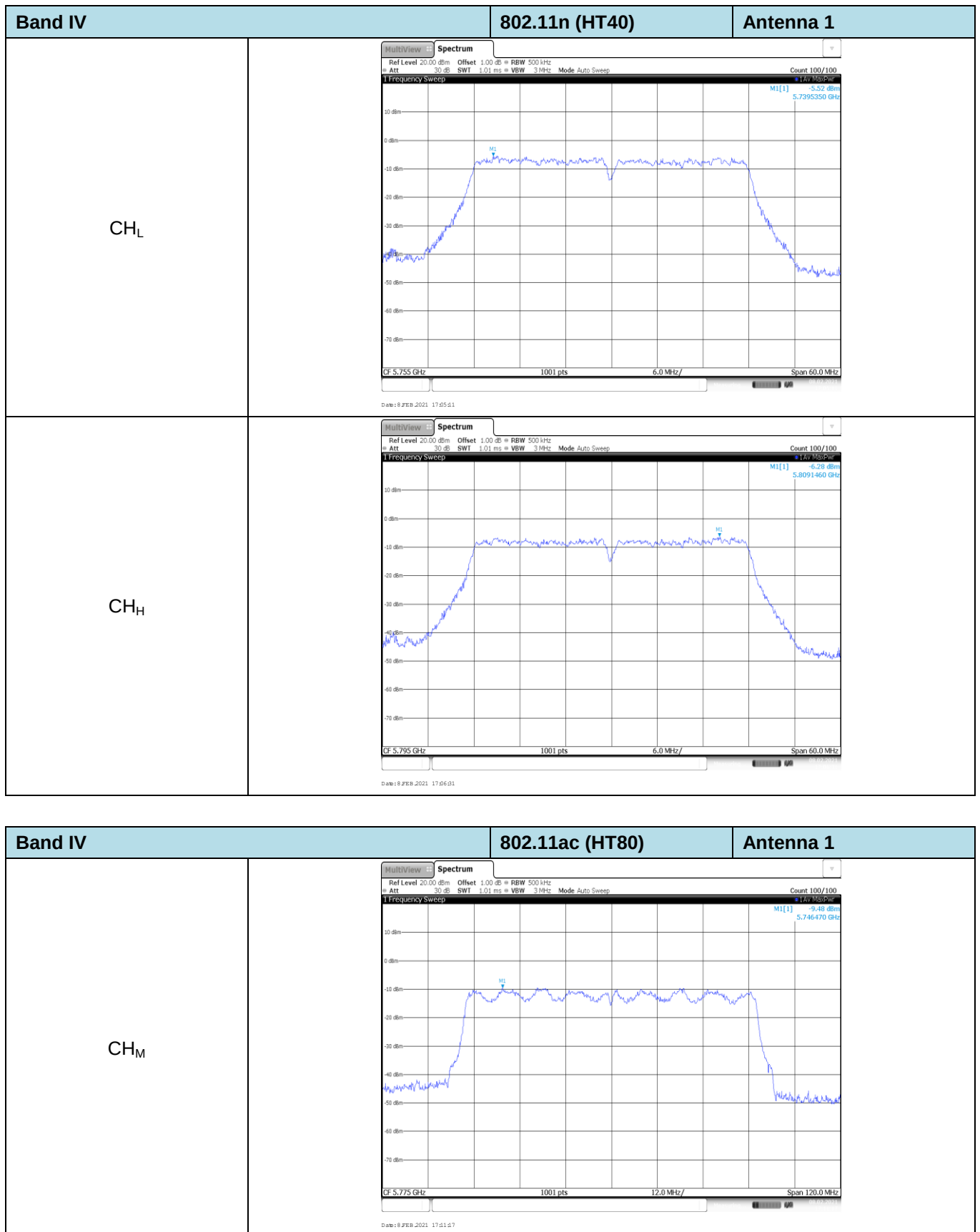




Band IV	802.11n (HT20)	Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 ↑TAT MSPW 1 Frequency Sweep MU[1] -2.90 dBm 5.7400550 GHz  CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 16:54:00	
CH _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 ↑TAT MSPW 1 Frequency Sweep MU[1] -3.16 dBm 5.7801450 GHz  CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 16:56:14	
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 ↑TAT MSPW 1 Frequency Sweep MU[1] -3.24 dBm 5.8201150 GHz  CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2021 16:57:46	

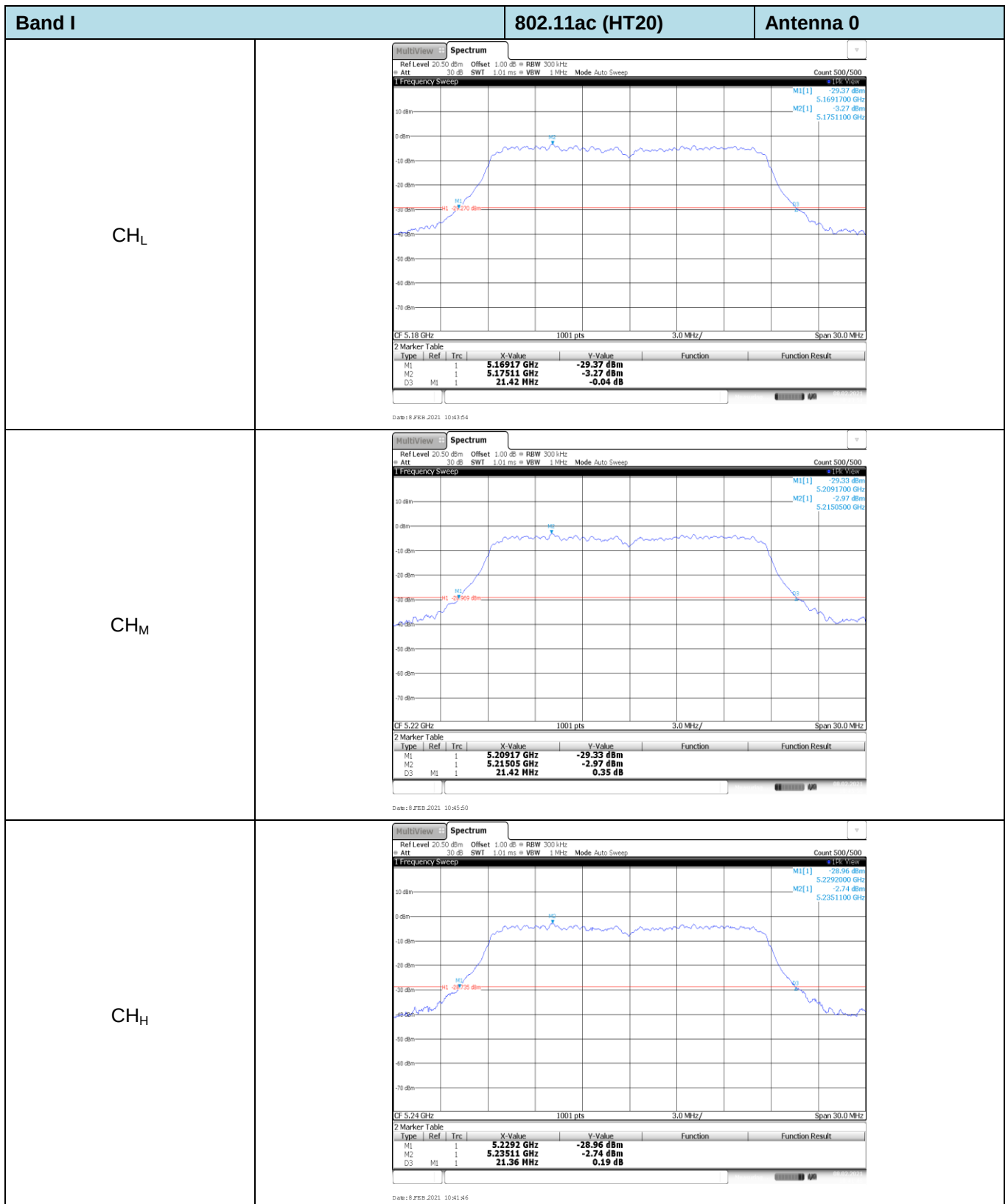


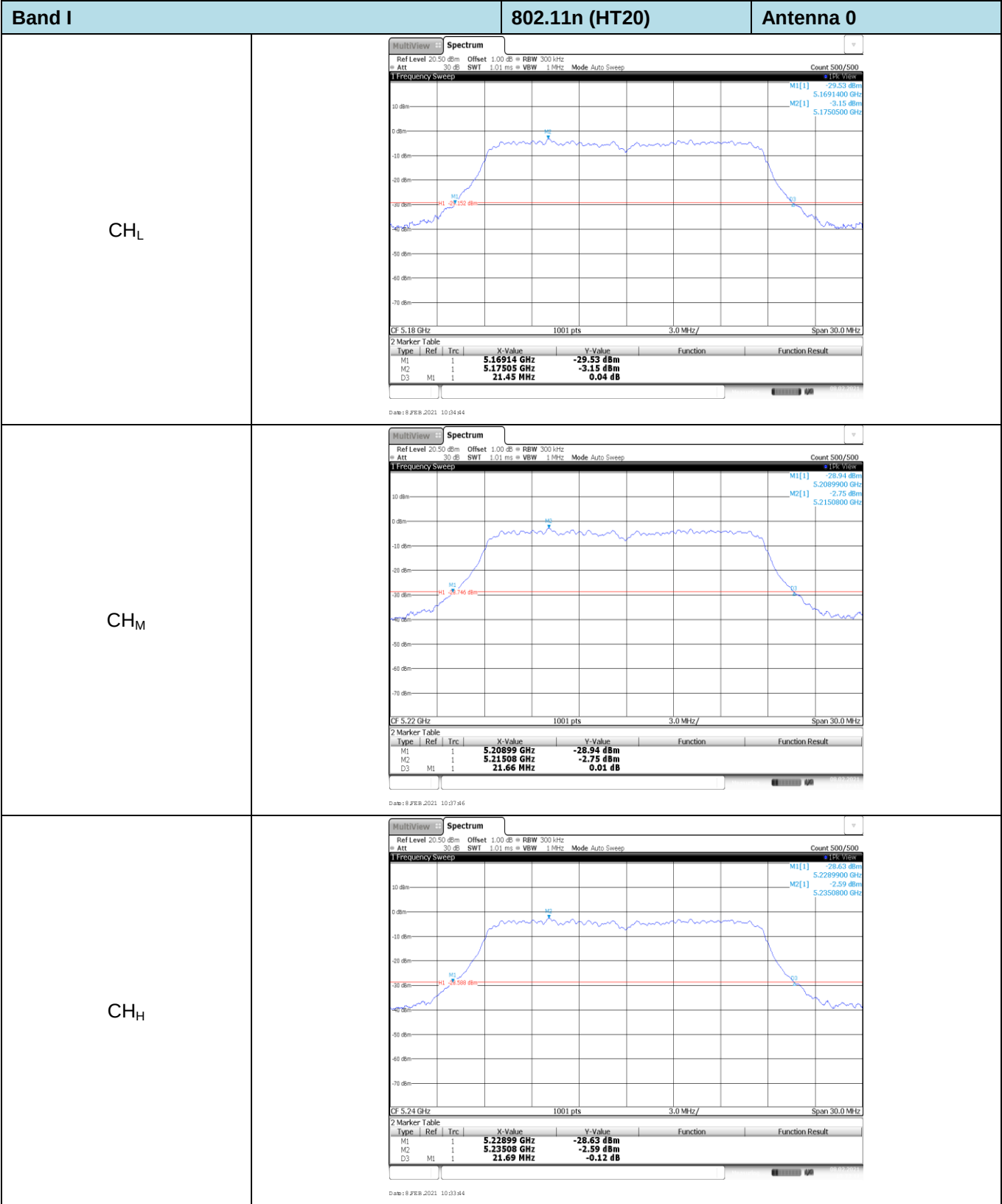
Band IV		802.11ac (HT40)	Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz MU[1] -6.08 dBm 5.7382170 GHz Date: 8 FEB 2021 17:08:17		
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 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz MU[1] -6.91 dBm 5.7800150 GHz Date: 8 FEB 2021 17:09:45		

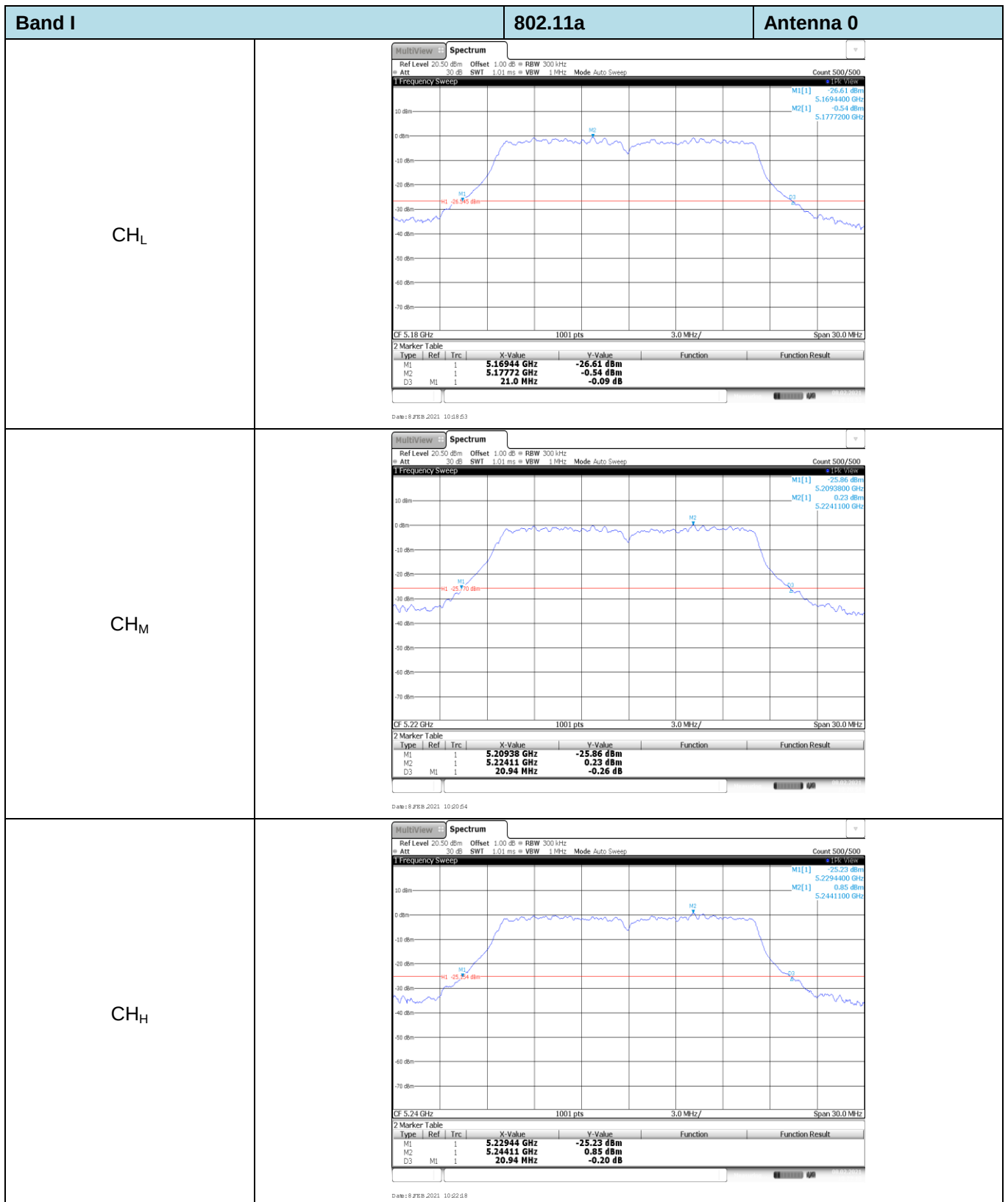


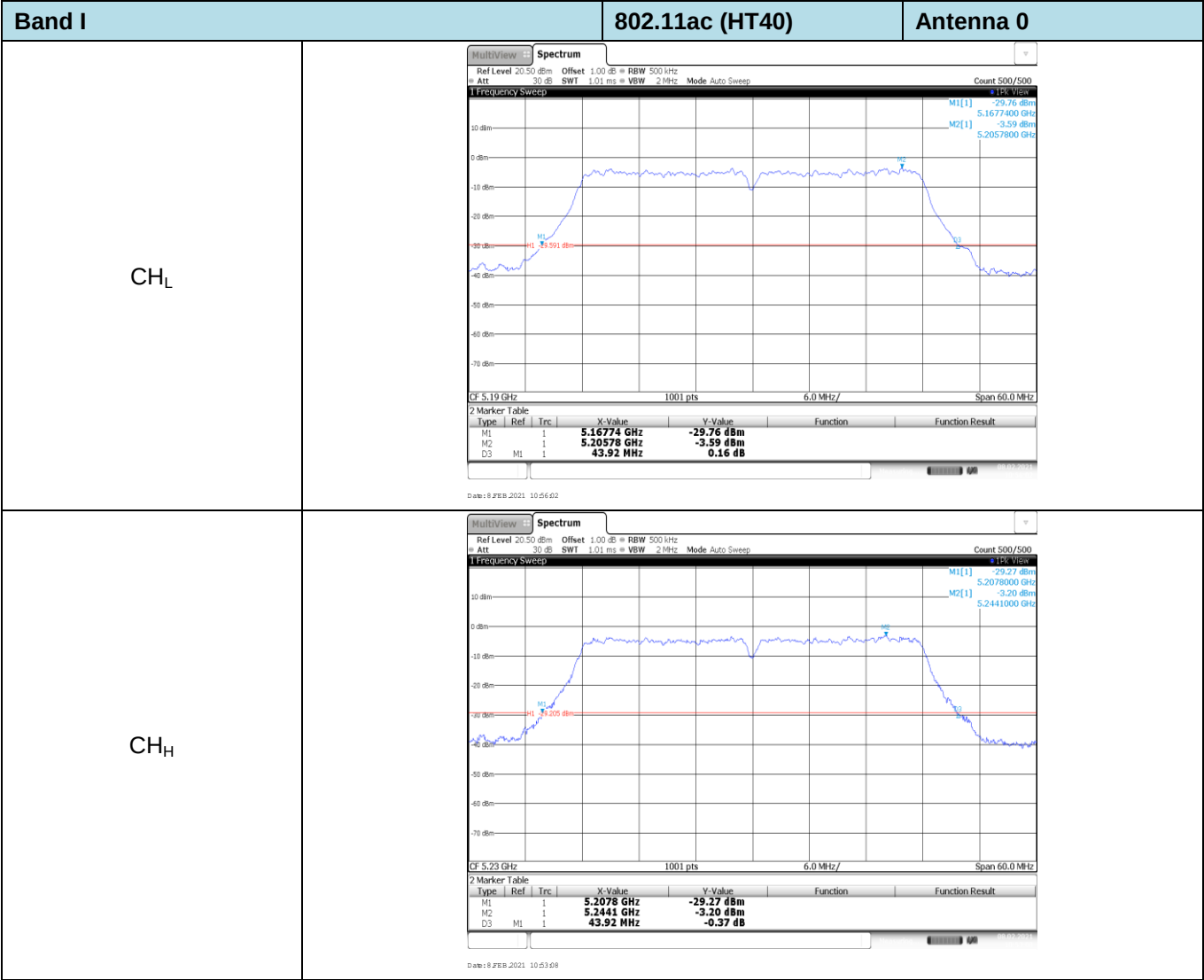
Appendix C: 26dB bandwidth

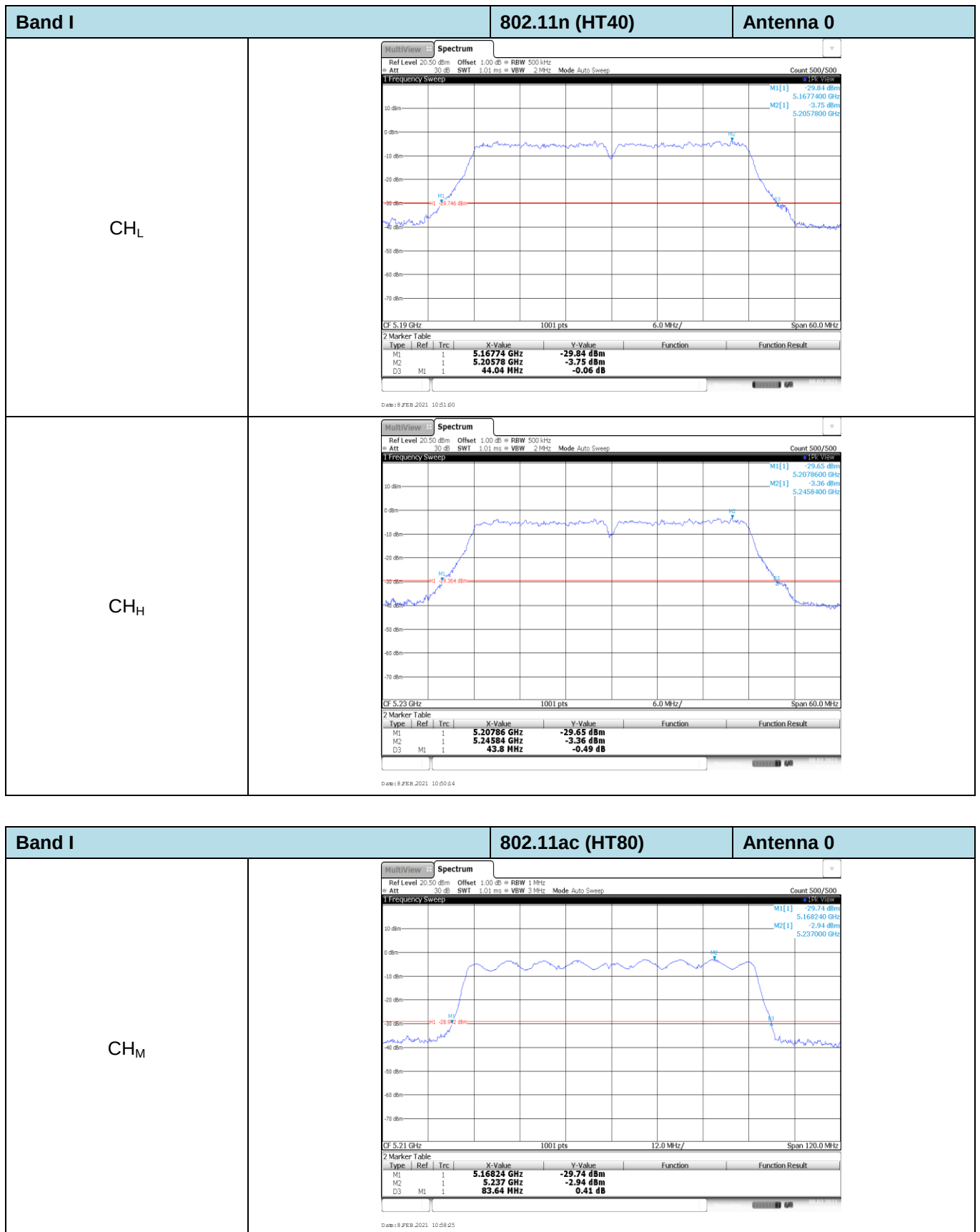
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)		Result
				Antenna 0	Antenna 1	
I	20	802.11ac	CH _L	21.42	21.72	Pass
			CH _M	21.42	21.81	
			CH _H	21.36	21.93	
		802.11n	CH _L	21.45	21.90	Pass
			CH _M	21.66	21.84	
			CH _H	21.69	21.81	
		802.11a	CH _L	21.00	21.75	Pass
			CH _M	20.94	21.72	
			CH _H	20.94	21.18	
	40	802.11ac	CH _L	43.92	44.04	Pass
			CH _H	43.92	44.04	
		802.11n	CH _L	44.04	44.10	Pass
			CH _H	43.80	43.86	
	80	802.11ac	CH _M	83.64	83.52	Pass
II	20	802.11ac	CH _L	21.51	21.72	Pass
			CH _M	21.51	21.72	
			CH _H	21.48	21.66	
		802.11n	CH _L	21.54	21.75	Pass
			CH _M	21.57	21.72	
			CH _H	21.51	21.84	
		802.11a	CH _L	20.97	21.75	Pass
			CH _M	20.97	21.63	
			CH _H	20.94	21.24	
	40	802.11ac	CH _L	43.80	43.80	Pass
			CH _H	43.92	44.04	
		802.11n	CH _L	43.92	44.10	Pass
			CH _H	43.92	43.92	
	80	802.11ac	CH _M	83.40	83.52	Pass

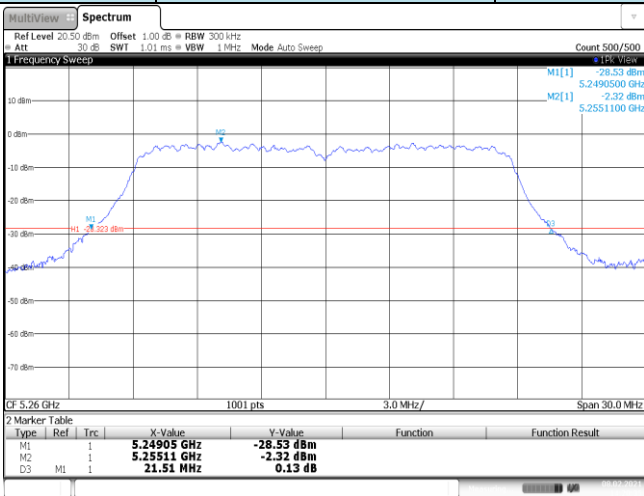
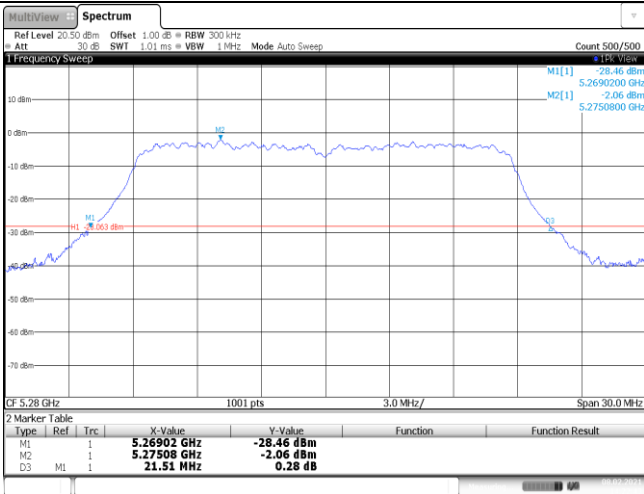
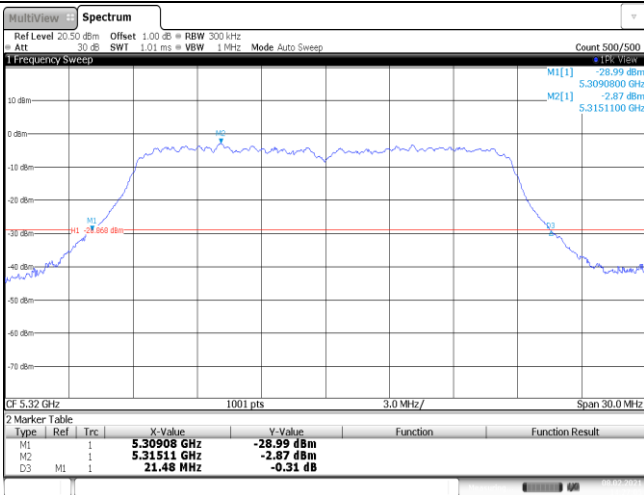


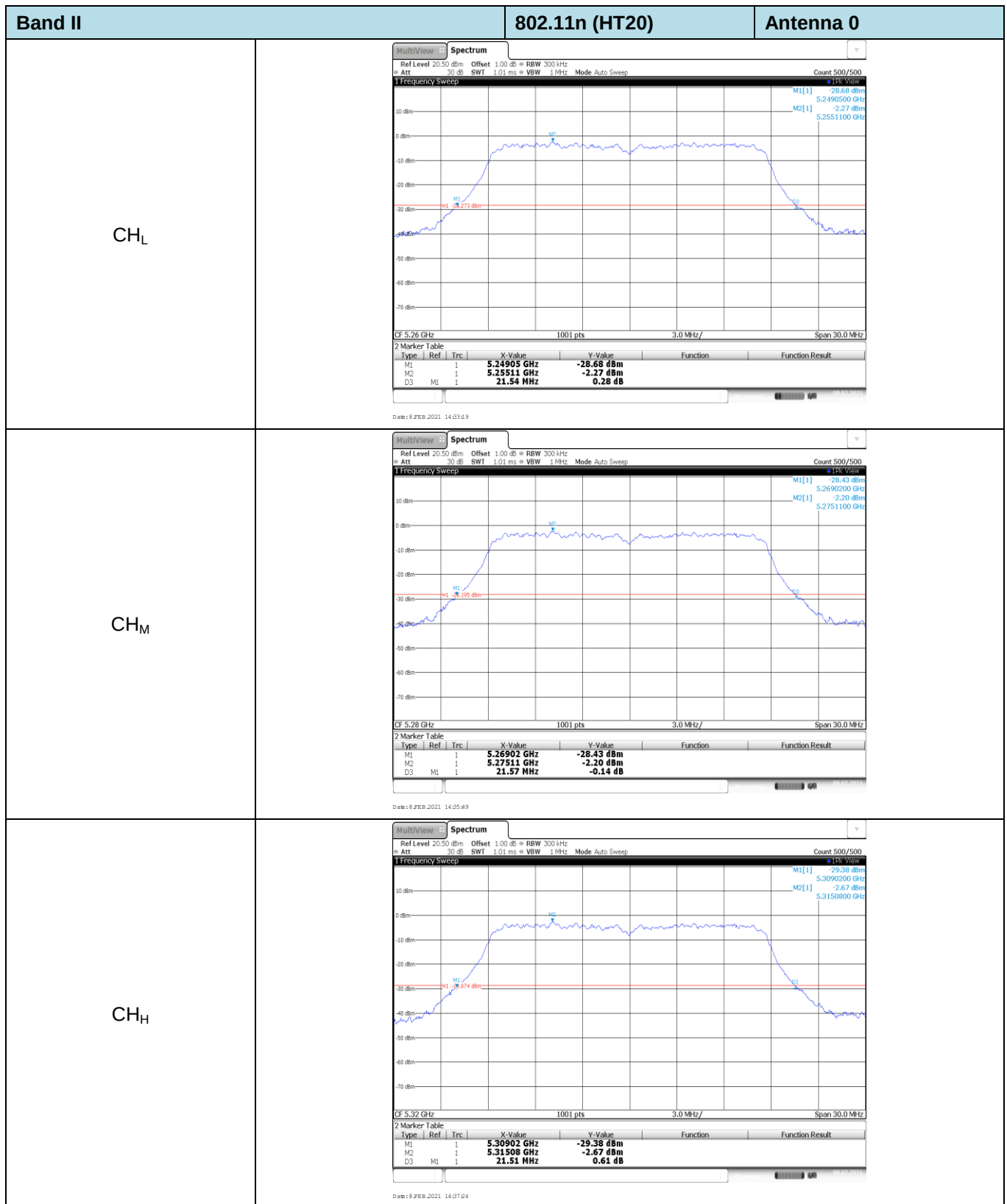








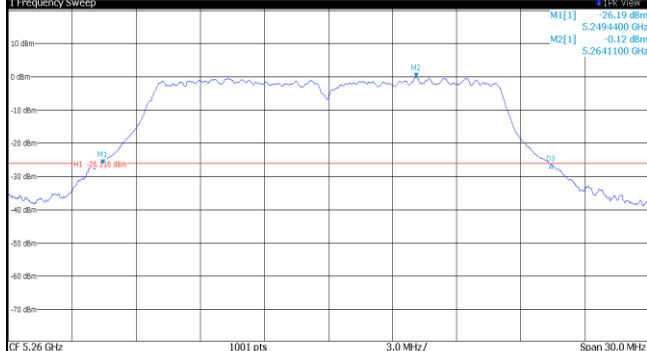
Band II		802.11ac (HT20)		Antenna 0																													
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWF 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>5.24905 GHz</td><td>-28.53 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.25511 GHz</td><td>-2.32 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td></td><td>21.51 MHz</td><td>0.13 dB</td><td></td><td></td></tr></table> Date: 8 FEB 2021 14:20:05					Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.24905 GHz	-28.53 dBm			M2	1		5.25511 GHz	-2.32 dBm			D3	M1		21.51 MHz	0.13 dB		
	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																										
M1	1		5.24905 GHz	-28.53 dBm																													
M2	1		5.25511 GHz	-2.32 dBm																													
D3	M1		21.51 MHz	0.13 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  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>5.26902 GHz</td><td>-28.46 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.27508 GHz</td><td>-2.06 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td></td><td>21.51 MHz</td><td>0.28 dB</td><td></td><td></td></tr></table> Date: 8 FEB 2021 14:22:44					Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.26902 GHz	-28.46 dBm			M2	1		5.27508 GHz	-2.06 dBm			D3	M1		21.51 MHz	0.28 dB		
	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																										
M1	1		5.26902 GHz	-28.46 dBm																													
M2	1		5.27508 GHz	-2.06 dBm																													
D3	M1		21.51 MHz	0.28 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  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>5.30908 GHz</td><td>-28.99 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.31511 GHz</td><td>-2.87 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td></td><td>21.48 MHz</td><td>-0.31 dB</td><td></td><td></td></tr></table> Date: 8 FEB 2021 14:27:05					Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.30908 GHz	-28.99 dBm			M2	1		5.31511 GHz	-2.87 dBm			D3	M1		21.48 MHz	-0.31 dB		
	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																										
M1	1		5.30908 GHz	-28.99 dBm																													
M2	1		5.31511 GHz	-2.87 dBm																													
D3	M1		21.48 MHz	-0.31 dB																													

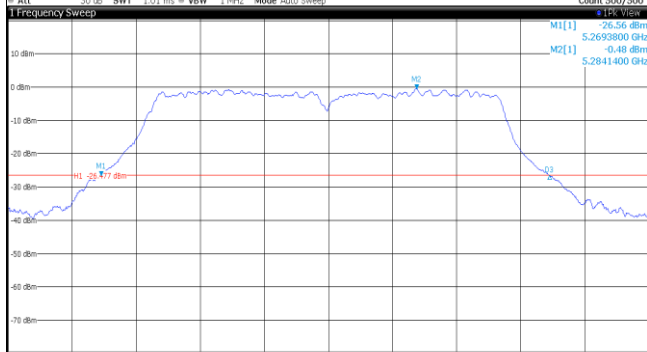


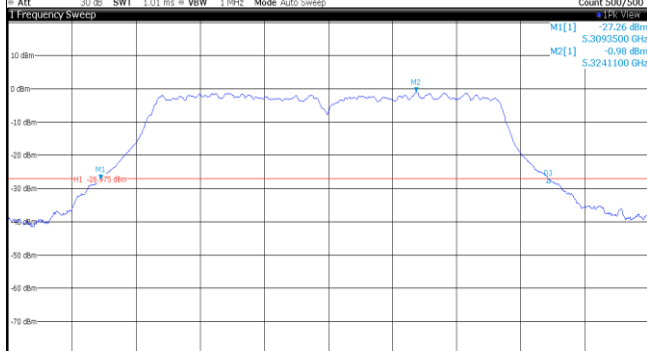
Band II

802.11a

Antenna 0

CH _L	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.26 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>1</td><td>5.24944 GHz</td><td>-26.19 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>5.26411 GHz</td><td>-0.12 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.97 MHz</td><td>-0.14 dB</td><td></td><td></td></tr></table> Date: 9 FEB 2021 14:41:09	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1	1	5.24944 GHz	-26.19 dBm			M2	1	1	5.26411 GHz	-0.12 dBm			D3	M1	1	20.97 MHz	-0.14 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1	1	5.24944 GHz	-26.19 dBm																									
M2	1	1	5.26411 GHz	-0.12 dBm																									
D3	M1	1	20.97 MHz	-0.14 dB																									

CH _M	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.28 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>1</td><td>5.28938 GHz</td><td>-26.56 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>5.28414 GHz</td><td>-0.48 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.97 MHz</td><td>0.04 dB</td><td></td><td></td></tr></table> Date: 9 FEB 2021 14:44:01	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1	1	5.28938 GHz	-26.56 dBm			M2	1	1	5.28414 GHz	-0.48 dBm			D3	M1	1	20.97 MHz	0.04 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1	1	5.28938 GHz	-26.56 dBm																									
M2	1	1	5.28414 GHz	-0.48 dBm																									
D3	M1	1	20.97 MHz	0.04 dB																									

CH _H	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.32 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>1</td><td>5.30935 GHz</td><td>-27.26 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>5.32411 GHz</td><td>-0.98 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.94 MHz</td><td>0.22 dB</td><td></td><td></td></tr></table> Date: 9 FEB 2021 14:46:11	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1	1	5.30935 GHz	-27.26 dBm			M2	1	1	5.32411 GHz	-0.98 dBm			D3	M1	1	20.94 MHz	0.22 dB		
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