

APPENDIX REPORT

Project No.	SHT2111035102EW	Radio Specification	WIFI 5G
Test sample No.	YPHT21110351010	Model No.	LitBike
Start test date	2021-12-15	Finish date	2021-12-24
Temperature	23.5℃	Humidity	43%
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)		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	11.85	8.39	90.15	90.15	0.45	0.45	12.30	8.84	13.90	24.00	Pass
			CH _M	12.07	8.20	90.15	90.15	0.45	0.45	12.52	8.65	14.01		
			CH _H	12.07	8.80	90.15	90.15	0.45	0.45	12.52	9.25	14.20		
		802.11n	CH _L	12.11	8.40	94.60	94.60	0.24	0.24	12.35	8.64	13.91	24.00	Pass
			CH _M	12.32	8.38	94.60	94.60	0.24	0.24	12.56	8.62	14.06		
			CH _H	12.38	8.96	94.60	94.60	0.24	0.24	12.62	9.20	14.23		
		802.11a	CH _L	12.19	8.75	94.94	94.94	0.23	0.23	12.42	8.98	-	24.00	Pass
			CH _M	12.46	8.74	94.94	95.03	0.23	0.22	12.69	8.96	-		
			CH _H	12.46	9.17	94.94	94.94	0.23	0.23	12.69	9.40	-		
	40	802.11ac	CH _L	11.52	7.95	82.89	82.89	0.81	0.81	12.33	8.76	13.90	24.00	Pass
			CH _H	11.84	8.23	82.86	82.89	0.82	0.81	12.66	9.04	14.24		
		802.11n	CH _L	11.95	8.17	90.01	89.92	0.46	0.46	12.41	8.63	13.91	24.00	Pass
			CH _H	12.17	8.56	90.01	89.93	0.46	0.46	12.63	9.02	14.17		
	80	802.11ac	CH _M	11.15	7.34	72.44	72.44	1.40	1.40	12.55	8.74	14.08	24.00	Pass

Band	Bandwidth (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	12.12	9.19	90.32	90.15	0.44	0.45	12.56	9.64	14.36	24.00	Pass
			CH _M	12.12	9.12	90.15	90.32	0.45	0.44	12.57	9.56	14.36		
			CH _H	11.88	8.33	90.15	90.15	0.45	0.45	12.33	8.78	13.90		
		802.11n	CH _L	12.35	9.36	94.60	94.60	0.24	0.24	12.59	9.60	14.36	24.00	Pass
			CH _M	12.24	9.29	94.60	94.60	0.24	0.24	12.48	9.53	14.26		
			CH _H	11.98	8.57	94.69	94.60	0.24	0.24	12.22	8.81	13.83		
		802.11a	CH _L	12.42	9.26	94.94	94.94	0.23	0.23	12.65	9.49	-	24.00	Pass
			CH _M	12.56	9.36	95.03	94.94	0.22	0.23	12.78	9.59	-		
			CH _H	12.21	8.55	94.94	94.94	0.23	0.23	12.44	8.78	-		
	40	802.11ac	CH _L	11.92	8.92	83.01	82.89	0.81	0.81	12.73	9.73	14.46	24.00	Pass
			CH _H	11.79	8.29	82.89	83.01	0.81	0.81	12.60	9.10	14.20		
		802.11n	CH _L	12.12	9.31	90.01	89.93	0.46	0.46	12.58	9.77	14.43	24.00	Pass
			CH _H	11.89	8.61	90.01	89.92	0.46	0.46	12.35	9.07	14.07		
	80	802.11ac	CH _M	11.11	7.96	72.20	72.20	1.41	1.41	12.52	9.37	14.23	24.00	Pass

Band	Bandwidth (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			
III	20	802.11ac	CH _L	12.28	10.89	90.15	90.15	0.45	0.45	12.73	11.34	15.07	24.00	Pass
			CH _M	12.15	11.42	90.15	90.15	0.45	0.45	12.60	11.87	15.27		
			CH _{M1}	11.71	11.14	90.15	90.15	0.45	0.45	12.16	11.59	14.92		
			CH _H	11.36	11.00	90.15	90.32	0.45	0.44	11.81	11.44	14.61		
		802.11n	CH _L	12.39	11.14	94.60	94.60	0.24	0.24	12.63	11.38	15.05	24.00	Pass
			CH _M	12.34	11.58	94.60	94.60	0.24	0.24	12.58	11.82	15.23		
			CH _{M1}	11.89	11.38	94.60	94.60	0.24	0.24	12.13	11.62	14.87		
			CH _H	11.64	11.05	94.60	94.60	0.24	0.24	11.88	11.29	14.62		
		802.11a	CH _L	12.56	11.15	95.03	95.03	0.22	0.22	12.78	11.37	-	24.00	Pass
			CH _M	12.28	11.51	94.94	94.94	0.23	0.23	12.51	11.74	-		
			CH _{M1}	12.00	11.37	94.94	94.94	0.23	0.23	12.23	11.60	-		
			CH _H	11.74	11.09	94.94	94.94	0.23	0.23	11.97	11.32	-		
	40	802.11ac	CH _L	12.05	10.91	82.89	83.01	0.81	0.81	12.86	11.72	15.35	24.00	Pass
			CH _M	12.29	11.27	82.89	82.89	0.81	0.81	13.10	12.08	15.64		
			CH _{M1}	11.54	11.00	82.89	82.89	0.81	0.81	12.35	11.81	15.12		
			CH _{H1}	11.18	11.11	82.89	82.89	0.81	0.81	11.99	11.92	14.96		
		802.11n	CH _L	12.35	11.14	90.01	89.93	0.46	0.46	12.81	11.60	15.25	24.00	Pass
			CH _M	12.62	11.66	90.01	90.01	0.46	0.46	13.08	12.12	15.64		
			CH _{M1}	11.82	11.22	89.93	90.01	0.46	0.46	12.28	11.68	15.02		
			CH _H	11.48	11.12	89.93	89.93	0.46	0.46	11.94	11.58	14.76		
	80	802.11ac	CH _L	11.50	10.51	72.26	72.44	1.41	1.40	12.91	11.91	15.44	24.00	Pass
			CH _M	10.73	10.57	72.26	72.44	1.41	1.41	12.14	11.97	15.06		
			CH _H	10.71	10.35	72.20	72.44	1.41	1.41	12.12	11.75	14.96		

Band	Bandwidth (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	11.72	11.18	90.15	90.15	0.45	0.45	12.17	11.63	14.92	30.00	Pass
			CH _M	12.14	10.65	90.15	90.15	0.45	0.45	12.59	11.10	14.92		
			CH _H	12.28	10.52	90.15	90.15	0.45	0.45	12.73	10.97	14.94		
		802.11n	CH _L	11.99	11.46	94.60	94.60	0.24	0.24	12.23	11.70	14.97	30.00	Pass
			CH _M	12.32	10.90	94.69	94.60	0.24	0.24	12.56	11.14	14.92		
			CH _H	12.51	10.64	94.60	94.60	0.24	0.24	12.75	10.88	14.96		
		802.11a	CH _L	12.13	11.30	94.94	94.94	0.23	0.23	12.36	11.53	-	30.00	Pass
			CH _M	12.52	10.86	94.94	94.94	0.23	0.23	12.75	11.09	-		
			CH _H	12.58	10.63	94.94	94.94	0.23	0.23	12.81	10.86	-		
	40	802.11ac	CH _L	11.44	10.83	82.89	83.01	0.81	0.81	12.25	11.64	14.97	30.00	Pass
			CH _H	11.93	10.43	82.89	82.89	0.81	0.81	12.74	11.24	15.02		
		802.11n	CH _L	11.62	11.17	90.01	90.01	0.46	0.46	12.08	11.63	14.87	30.00	Pass
			CH _H	12.32	10.81	89.93	89.93	0.46	0.46	12.78	11.27	15.12		
	80	802.11ac	CH _M	11.04	9.89	72.44	72.26	1.40	1.41	12.44	11.30	14.90	30.00	Pass

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

Appendix B: Maximum Power Spectral Density

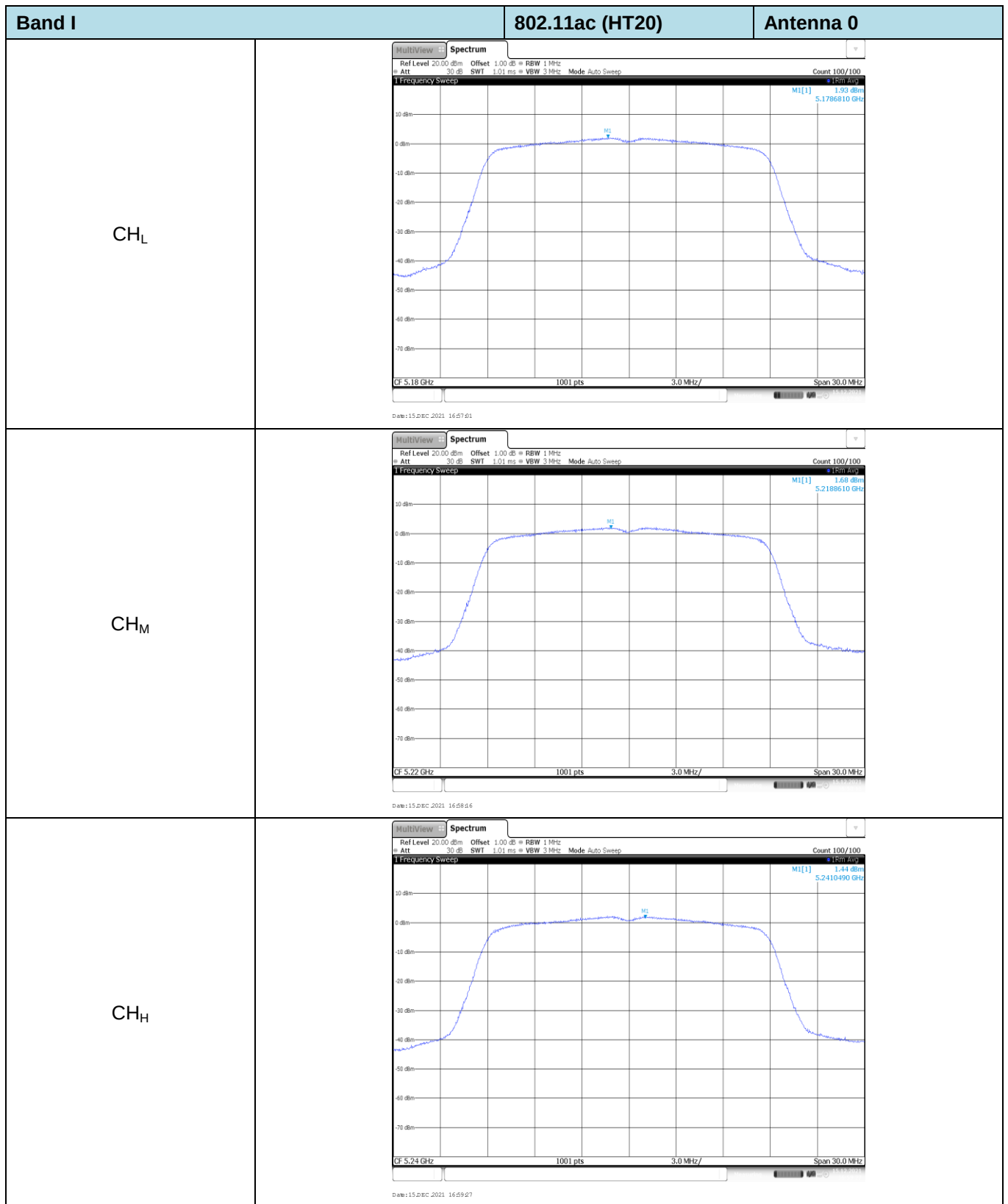
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/MHz)		Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
I	20	802.11ac	CH _L	1.93	-1.35	90.15	90.15	0.45	0.45	2.38	-0.90	4.05	11.00	Pass
			CH _M	1.68	-1.67	90.15	90.15	0.45	0.45	2.13	-1.22	3.78		
			CH _H	1.44	-1.55	90.15	90.15	0.45	0.45	1.89	-1.10	3.66		
		802.11n	CH _L	1.99	-1.17	94.60	94.60	0.24	0.24	2.23	-0.93	3.92	11.00	Pass
			CH _M	2.16	-1.56	94.60	94.60	0.24	0.24	2.40	-1.32	3.94		
			CH _H	1.62	-1.34	94.60	94.60	0.24	0.24	1.86	-1.10	3.64		
		802.11a	CH _L	2.36	-1.01	94.94	94.94	0.23	0.23	2.59	-0.78	-	11.00	Pass
			CH _M	2.53	-1.19	94.94	95.03	0.23	0.22	2.76	-0.97	-		
			CH _H	2.65	-1.22	94.94	94.94	0.23	0.23	2.88	-0.99	-		
	40	802.11ac	CH _L	-1.42	-4.52	82.89	82.89	0.81	0.81	-0.61	-3.71	1.21	11.00	Pass
			CH _H	-0.95	-4.99	82.86	82.89	0.82	0.81	-0.13	-4.18	1.31		
		802.11n	CH _L	-0.70	-4.53	90.01	89.92	0.46	0.46	-0.24	-4.07	1.26	11.00	Pass
			CH _H	-1.41	-4.55	90.01	89.93	0.46	0.46	-0.95	-4.09	0.77		
	80	802.11ac	CH _M	-4.63	-8.78	72.44	72.44	1.40	1.40	-3.23	-7.38	-1.82	11.00	Pass

Band	Bandwidth (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	1.99	-1.43	90.32	90.15	0.44	0.45	2.43	-0.98	4.06	11.00	Pass
			CH _M	2.19	-1.41	90.15	90.32	0.45	0.44	2.64	-0.97	4.21		
			CH _H	2.02	-1.39	90.15	90.15	0.45	0.45	2.47	-0.94	4.10		
		802.11n	CH _L	2.11	-1.31	94.60	94.60	0.24	0.24	2.35	-1.07	3.98	11.00	Pass
			CH _M	2.44	-0.86	94.60	94.60	0.24	0.24	2.68	-0.62	4.35		
			CH _H	1.76	-1.63	94.69	94.60	0.24	0.24	2.00	-1.39	3.64		
		802.11a	CH _L	2.65	-1.03	94.94	94.94	0.23	0.23	2.88	-0.80	-	11.00	Pass
			CH _M	2.72	-0.77	95.03	94.94	0.22	0.23	2.94	-0.54	-		
			CH _H	2.08	-0.78	94.94	94.94	0.23	0.23	2.31	-0.55	-		
	40	802.11ac	CH _L	-1.18	-4.28	83.01	82.89	0.81	0.81	-0.37	-3.47	1.36	11.00	Pass
			CH _H	-1.55	-4.66	82.89	83.01	0.81	0.81	-0.74	-3.85	0.99		
		802.11n	CH _L	-1.39	-4.23	90.01	89.93	0.46	0.46	-0.93	-3.77	0.89	11.00	Pass
			CH _H	-1.25	-4.06	90.01	89.92	0.46	0.46	-0.79	-3.6	1.04		
	80	802.11ac	CH _M	-4.75	-7.95	72.20	72.20	1.41	1.41	-3.34	-6.54	-1.64	11.00	Pass

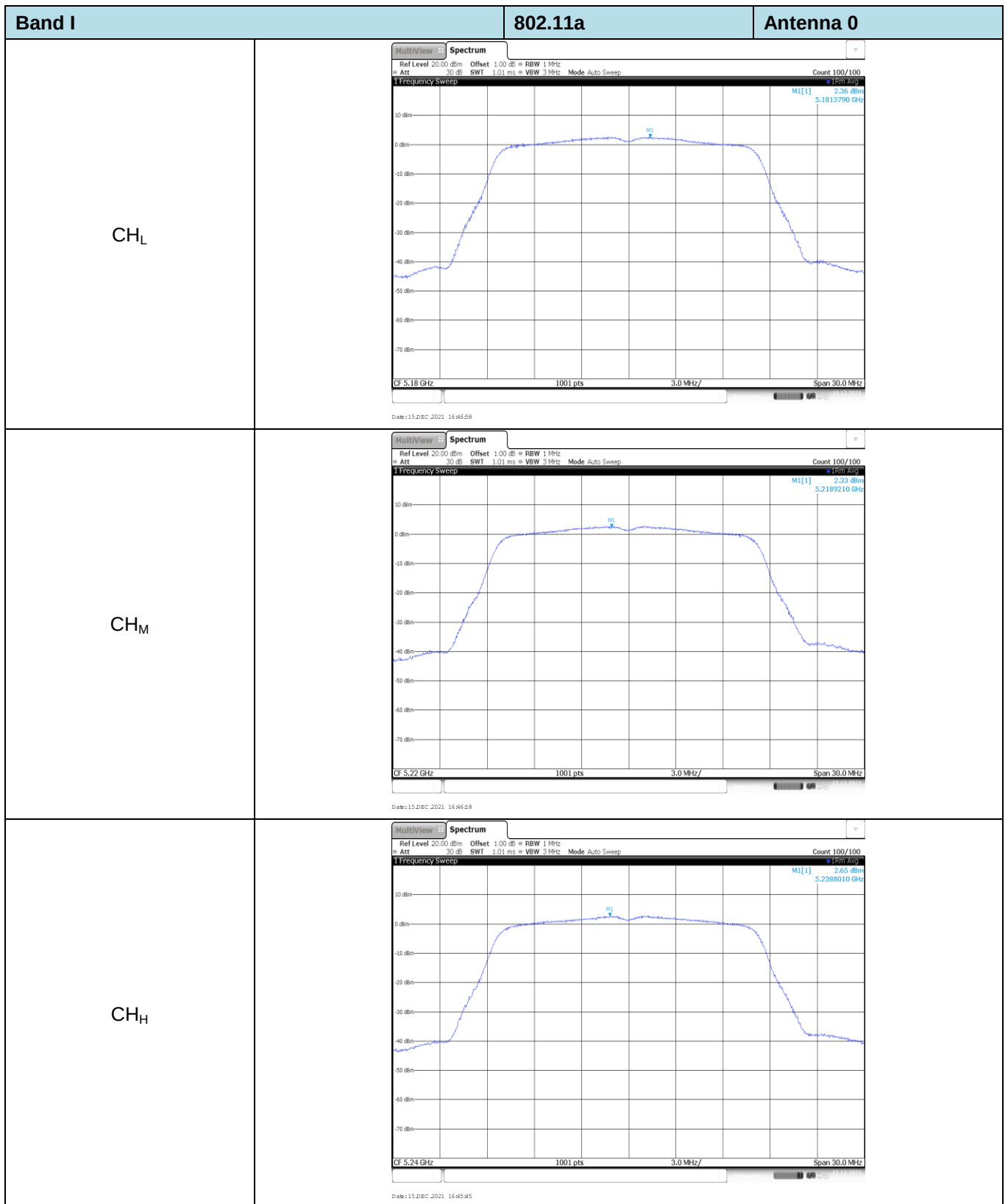
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/MHz)		Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
III	20	802.11 ac	CH _L	2.21	0.78	90.15	90.15	0.45	0.45	2.66	1.23	5.01	11.00	Pass
			CH _M	1.89	1.34	90.15	90.15	0.45	0.45	2.34	1.79	5.08		
			CH _H	1.19	0.78	90.15	90.32	0.45	0.44	1.64	1.22	4.44		
		802.11 n	CH _L	2.61	0.50	94.60	94.60	0.24	0.24	2.85	0.74	4.93	11.00	Pass
			CH _M	2.33	1.25	94.60	94.60	0.24	0.24	2.57	1.49	5.07		
			CH _H	1.68	0.52	94.60	94.60	0.24	0.24	1.92	0.76	4.39		
		802.11 a	CH _L	2.69	1.18	95.03	95.03	0.22	0.22	2.91	1.40	-	11.00	Pass
			CH _M	2.56	1.62	94.94	94.94	0.23	0.23	2.79	1.85	-		
			CH _H	2.41	1.14	94.94	94.94	0.23	0.23	2.64	1.37	-		
	40	802.11 ac	CH _L	-1.34	-2.54	82.89	83.01	0.81	0.81	-0.53	-1.73	1.92	11.00	Pass
			CH _M	-0.71	-1.94	82.89	82.89	0.81	0.81	0.10	-1.13	2.54		
			CH _H	-2.04	-2.50	82.89	82.89	0.81	0.81	-1.23	-1.69	1.56		
		802.11 n	CH _L	-1.15	-1.52	90.01	89.93	0.46	0.46	-0.69	-1.06	2.14	11.00	Pass
			CH _M	-0.76	-1.45	90.01	90.01	0.46	0.46	-0.30	-0.99	2.38		
			CH _H	-1.49	-1.85	89.93	89.93	0.46	0.46	-1.03	-1.39	1.80		
	80	802.11 ac	CH _L	-4.87	-6.64	72.26	72.44	1.41	1.40	-3.46	-5.24	-1.25	11.00	Pass
			CH _H	-5.45	-5.97	72.20	72.44	1.41	1.40	-4.04	-4.57	-1.29		

Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/500kHz)		Total PSD (dBm/MHz)	Limit (dBm/500 KHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
IV	20	802.11 ac	CH _L	-0.95	-1.70	90.15	90.15	0.45	0.45	-0.50	-1.25	2.15	30.00	Pass
			CH _M	-1.42	-2.41	90.15	90.15	0.45	0.45	-0.97	-1.96	1.57		
			CH _H	-0.60	-2.82	90.15	90.15	0.45	0.45	-0.15	-2.37	1.89		
		802.11 n	CH _L	-0.81	-1.11	94.60	94.60	0.24	0.24	-0.57	-0.87	2.29	30.00	Pass
			CH _M	-0.92	-1.62	94.69	94.60	0.24	0.24	-0.68	-1.38	1.99		
			CH _H	-0.55	-2.64	94.60	94.60	0.24	0.24	-0.31	-2.40	1.78		
		802.11 a	CH _L	-1.02	-1.53	94.94	94.94	0.23	0.23	-0.79	-1.30	-	30.00	Pass
			CH _M	-0.81	-1.37	94.94	94.94	0.23	0.23	-0.58	-1.14	-		
			CH _H	-0.13	-2.38	94.94	94.94	0.23	0.23	0.10	-2.15	-		
	40	802.11 ac	CH _L	-4.21	-4.74	82.89	83.01	0.81	0.81	-3.40	-3.93	-0.65	30.00	Pass
			CH _H	-4.73	-5.79	82.89	82.89	0.81	0.81	-3.92	-4.98	-1.41		
		802.11 n	CH _L	-4.35	-4.25	90.01	90.01	0.46	0.46	-3.89	-3.79	-0.83	30.00	Pass
			CH _H	-4.38	-5.05	89.93	89.93	0.46	0.46	-3.92	-4.59	-1.23		
	80	802.11 ac	CH _M	-8.19	-8.42	72.44	72.26	1.40	1.41	-6.79	-7.01	-3.89	30.00	Pass

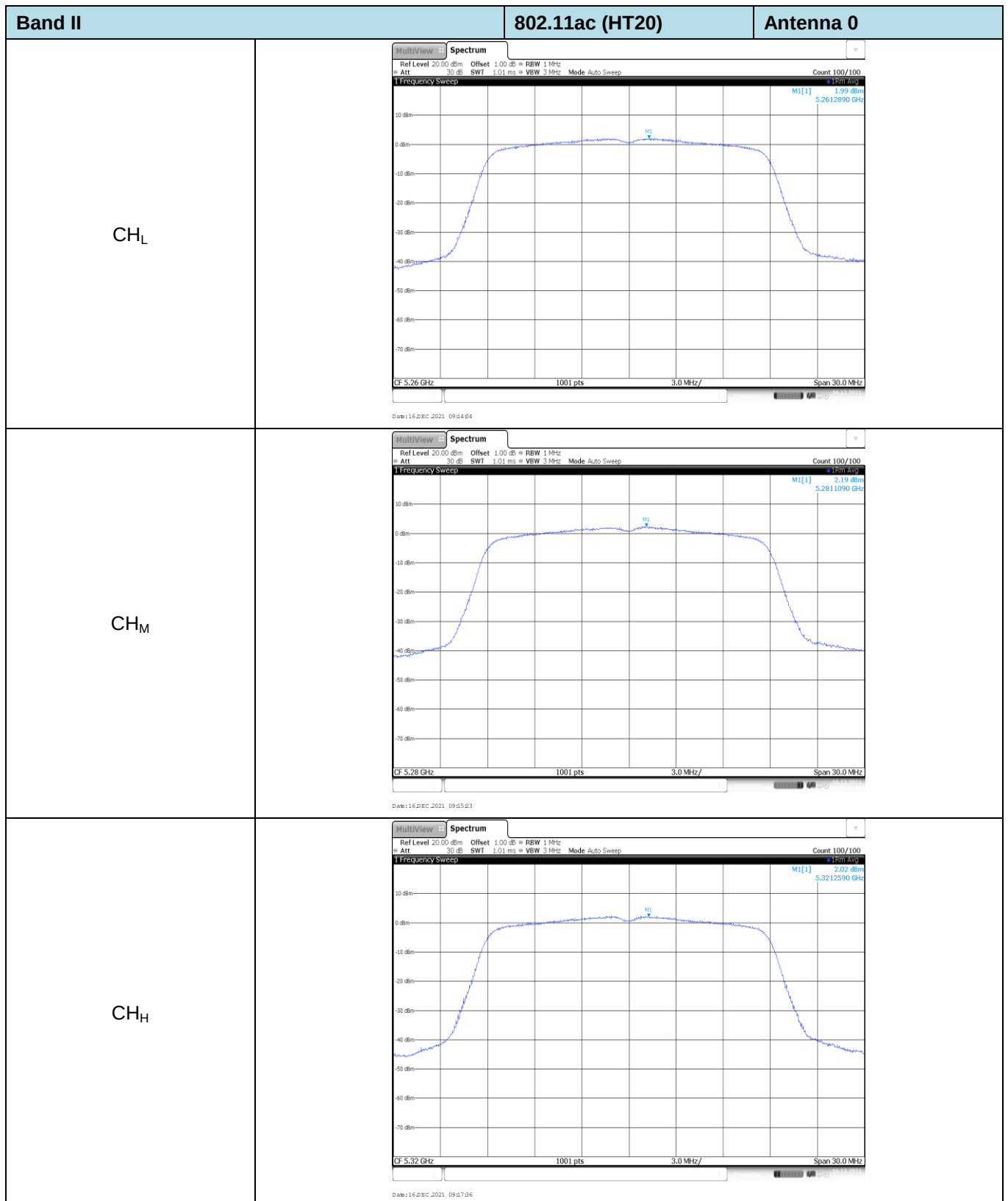
Test plot as follows:

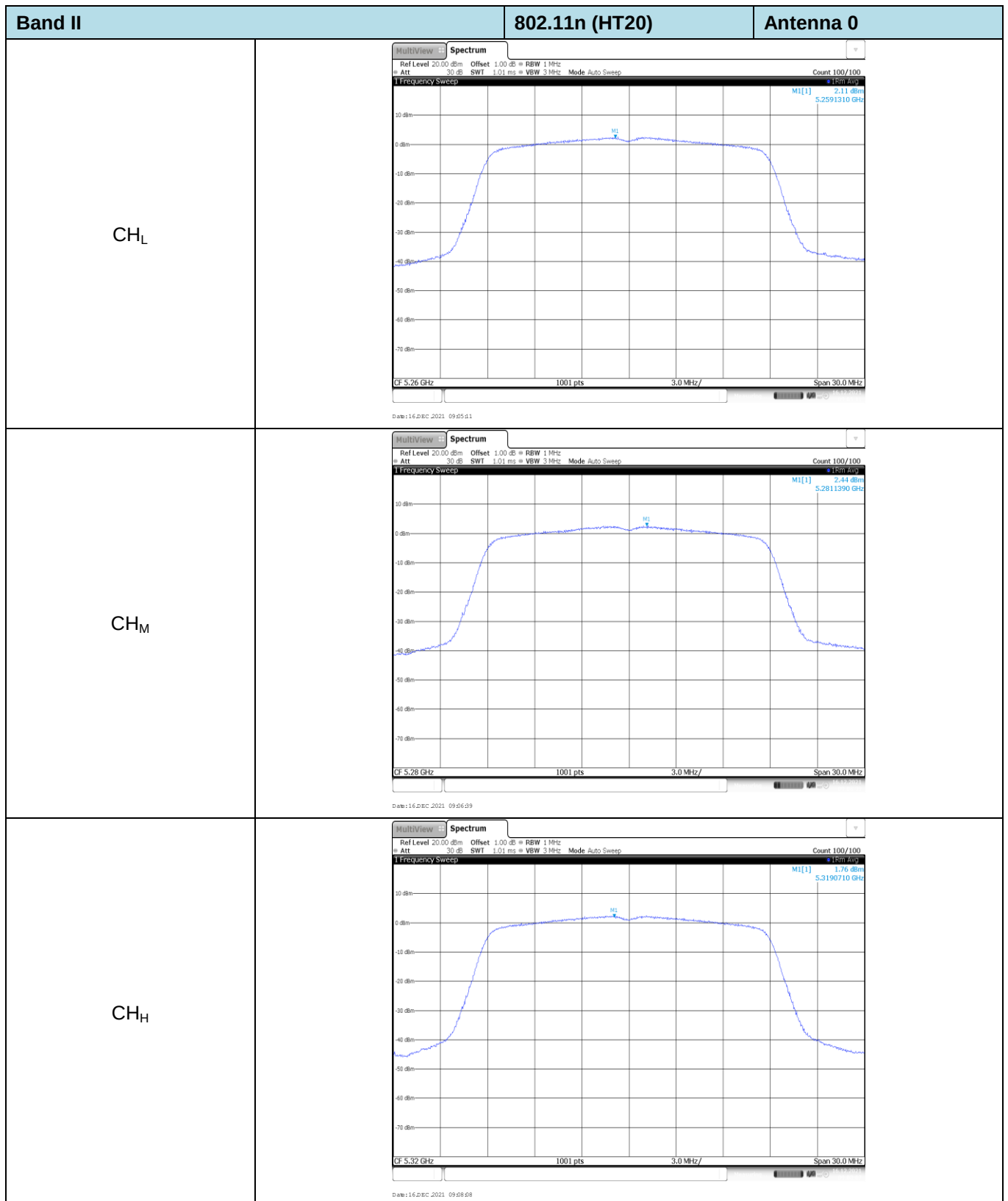


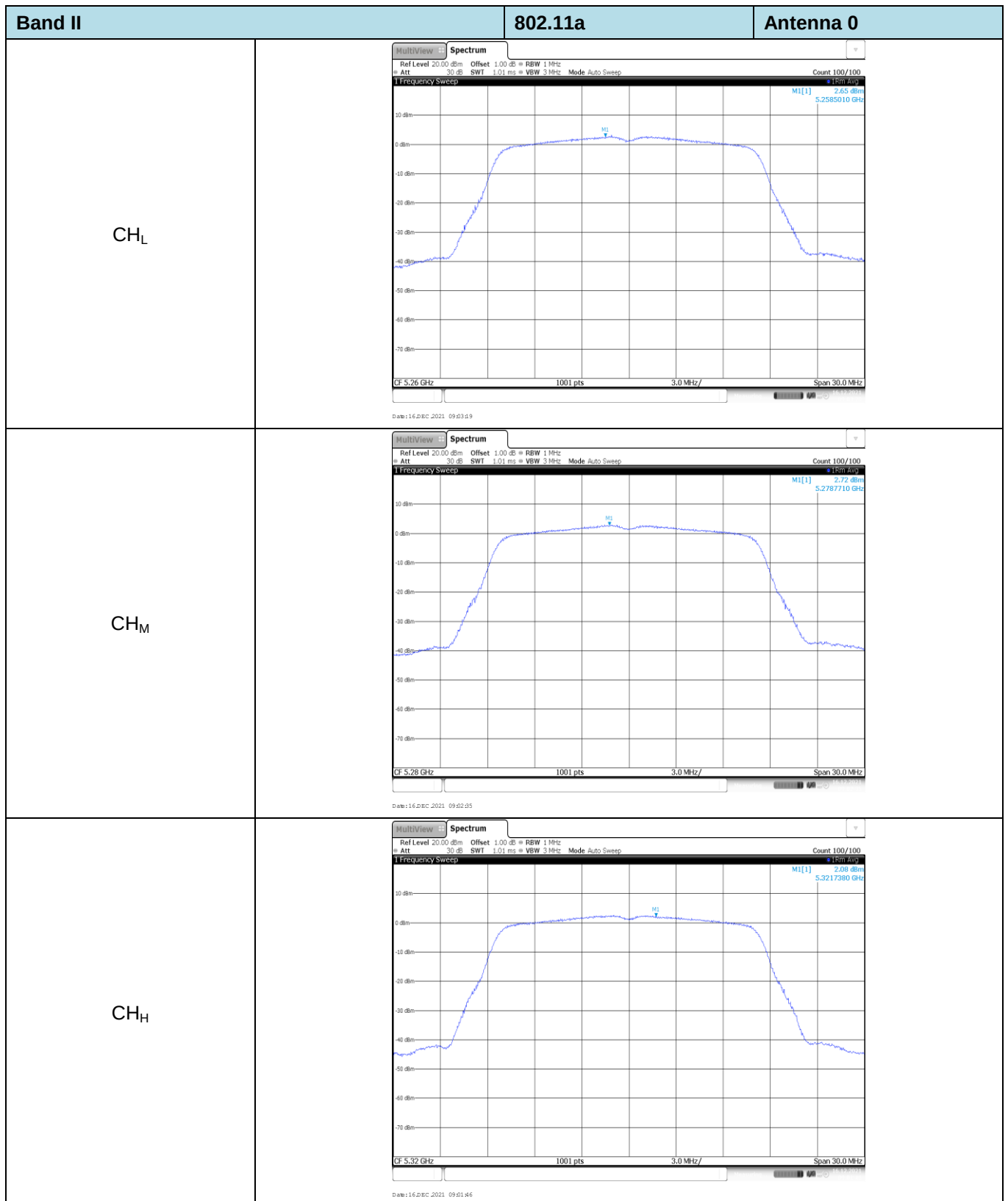
Band I		802.11n (HT20)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz ATT 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 152.2 dBm M1[1] 1.99 dBm 5.1814390 GHz Frequency Sweep 10 dB 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 DEC 2021 16:48:31		
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 100/100 152.2 dBm M1[1] 2.16 dBm 5.2191610 GHz Frequency Sweep 10 dB 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 DEC 2021 16:49:42		
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 100/100 152.2 dBm M1[1] 1.62 dBm 5.2409290 GHz Frequency Sweep 10 dB 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 DEC 2021 16:51:04		

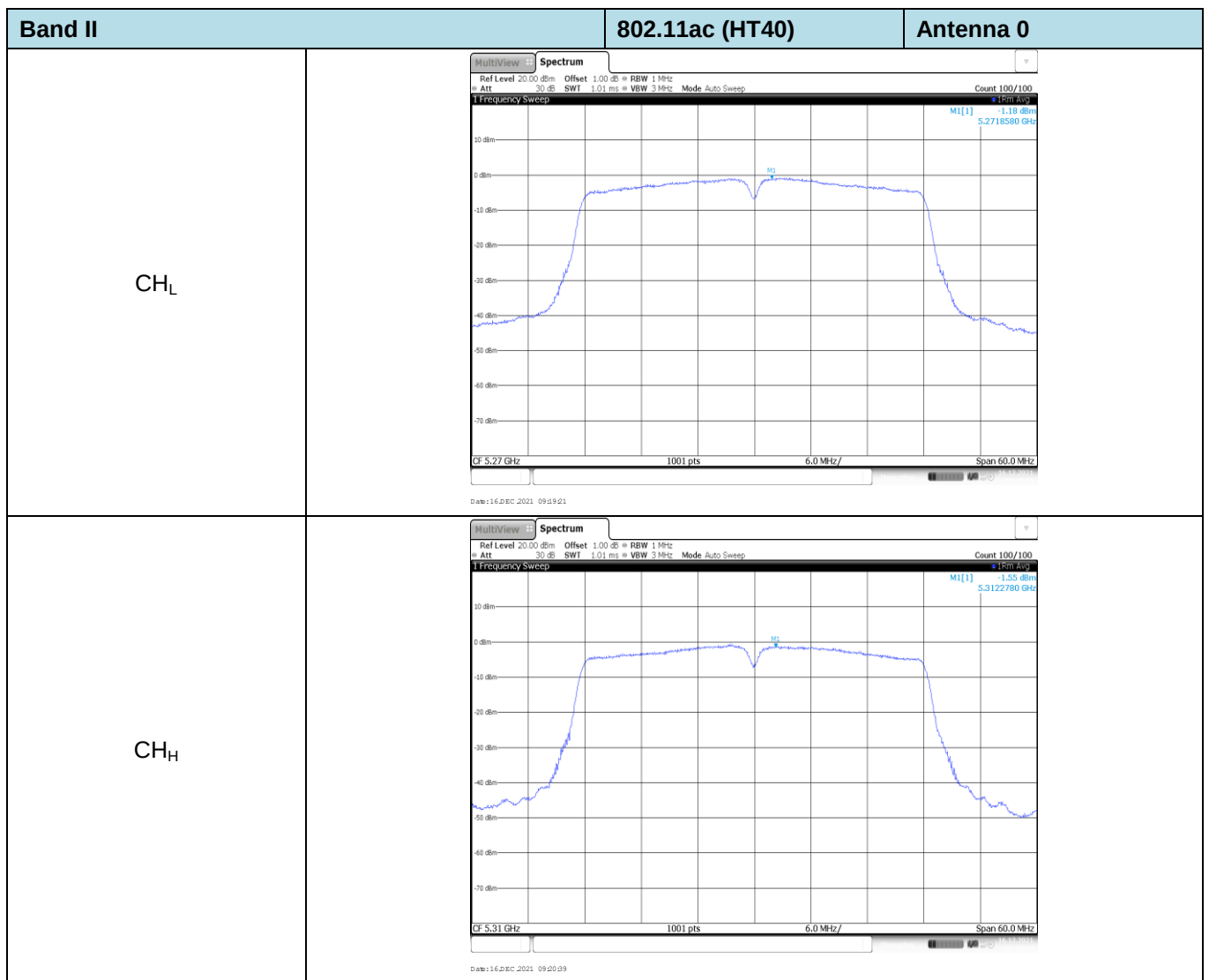


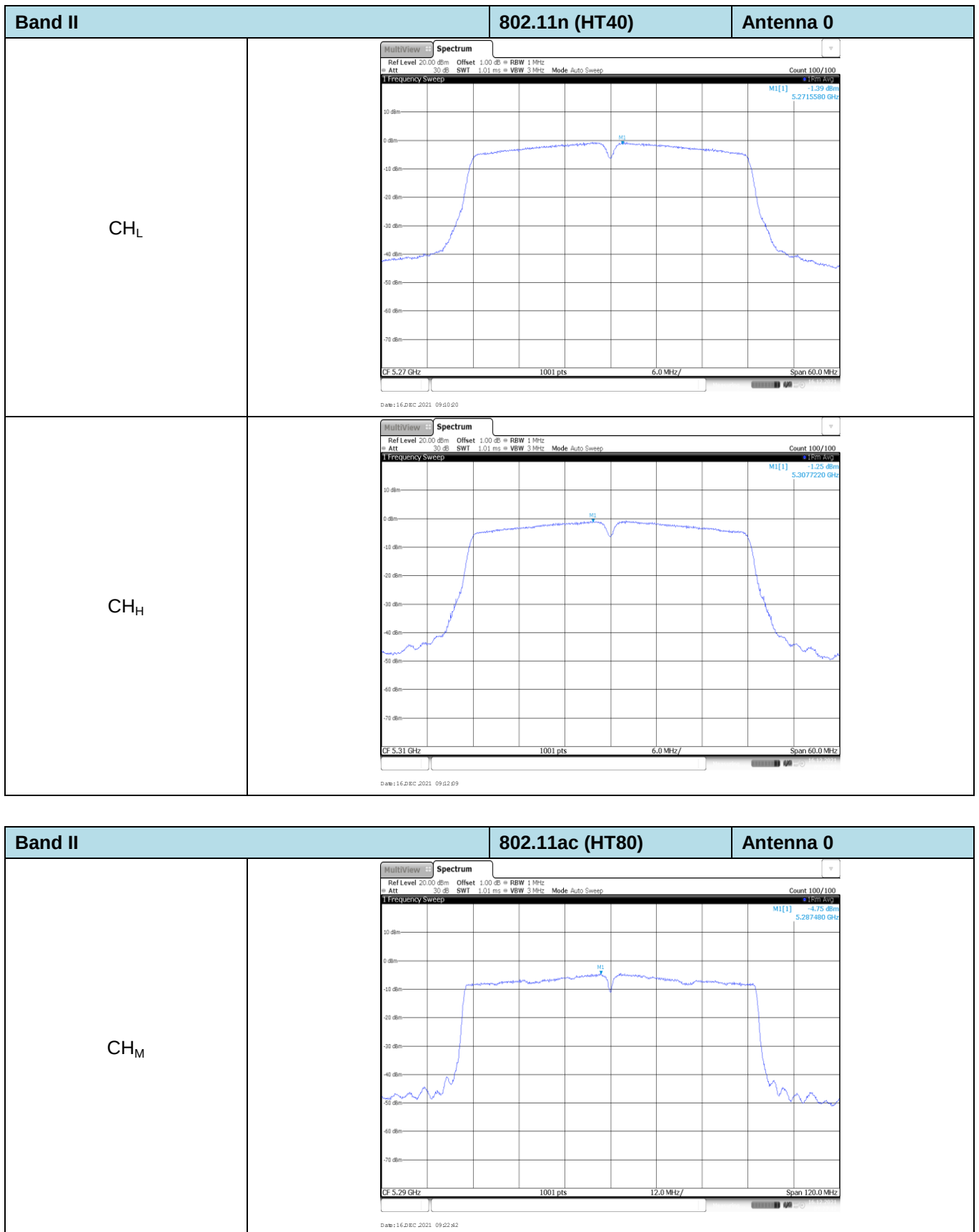
Band I		802.11n (HT40)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 -0.70 dBm 5.1879620 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:15 DEC 2021 16:53:02		
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 1 Frequency Sweep M1 -1.41 dBm 5.2271830 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:15 DEC 2021 16:54:14		
Band I		802.11ac (HT80)	Antenna 0
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 1 Frequency Sweep M1 -4.63 dBm 5.2077220 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.21 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date:15 DEC 2021 17:03:42		



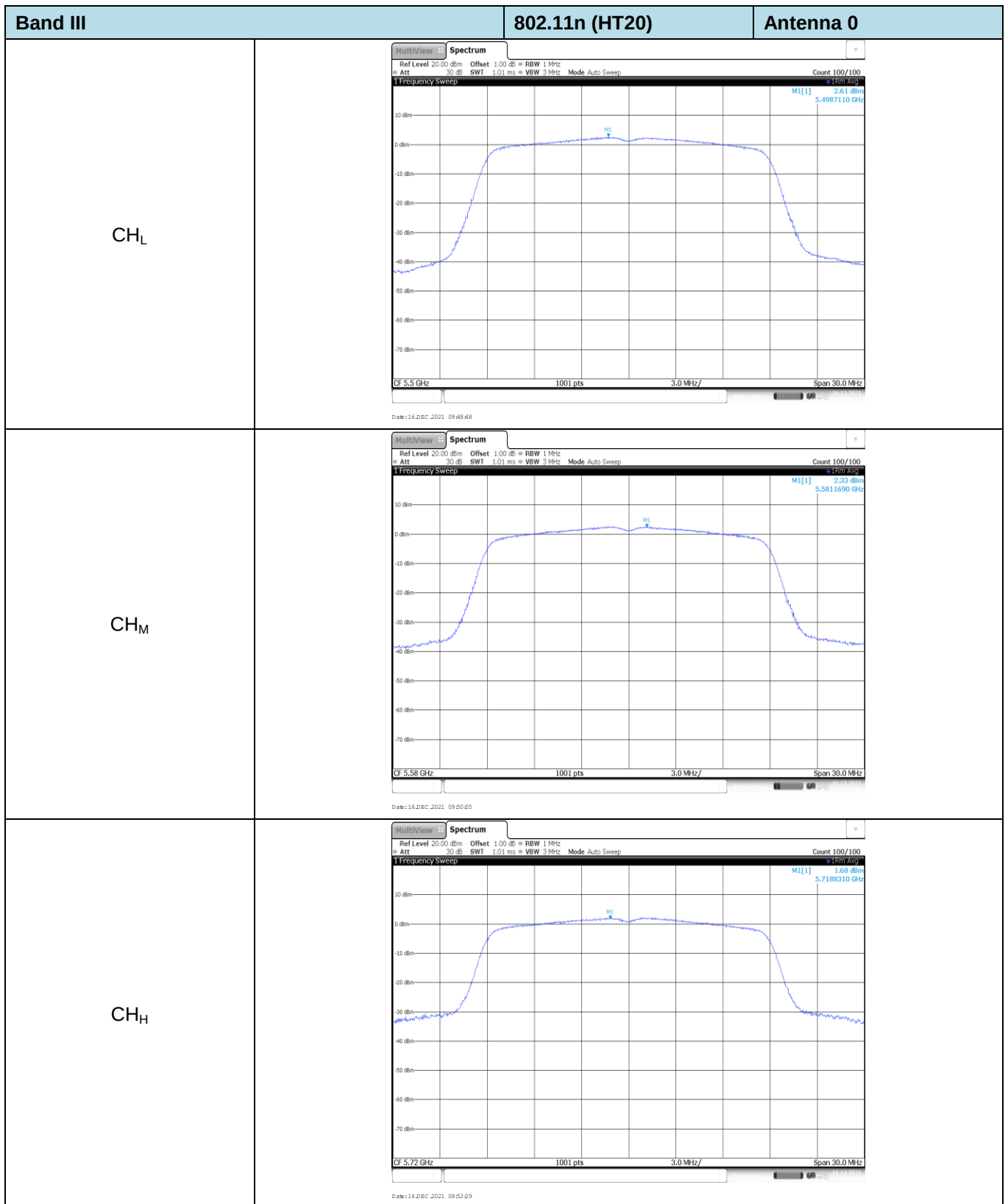


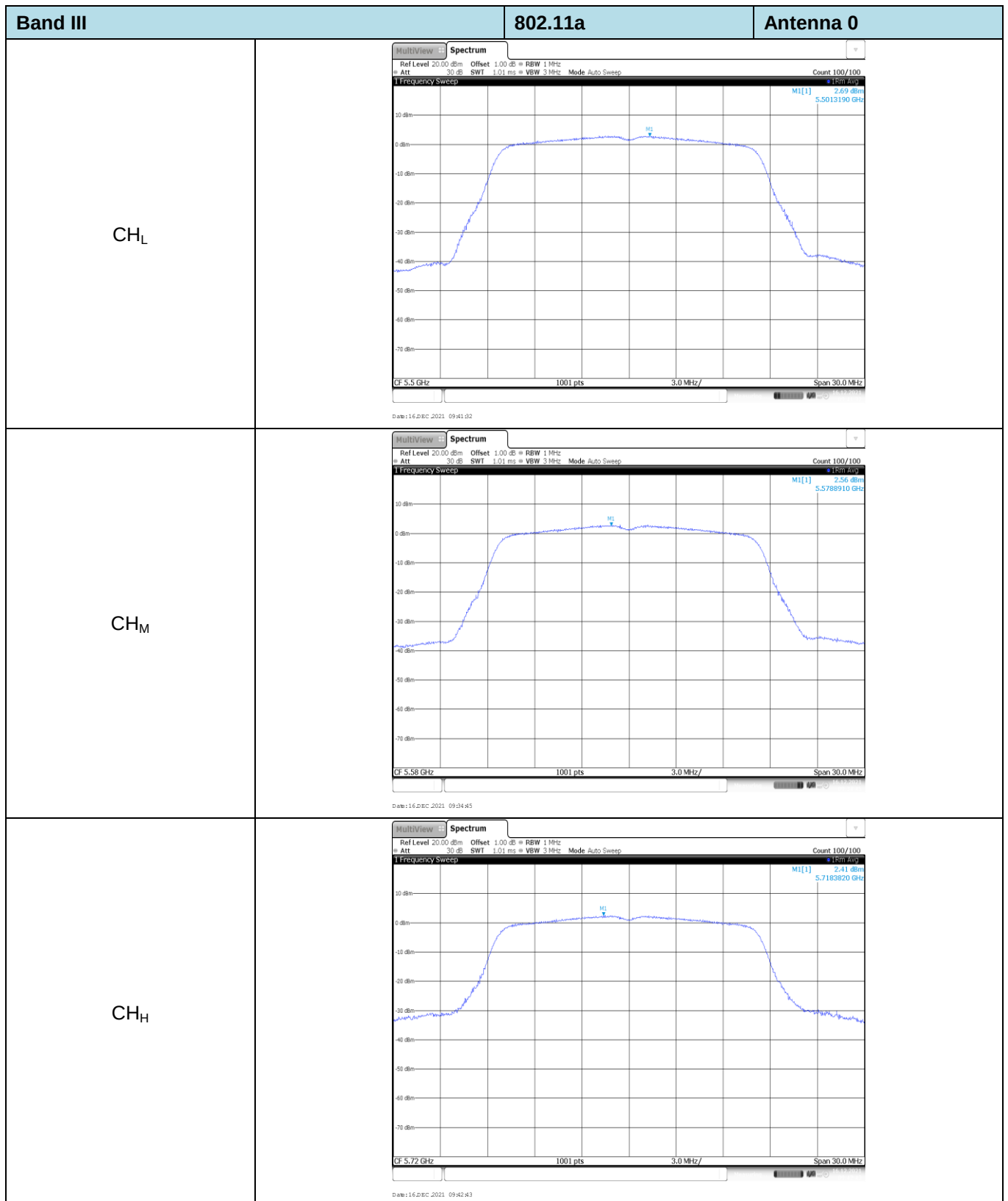


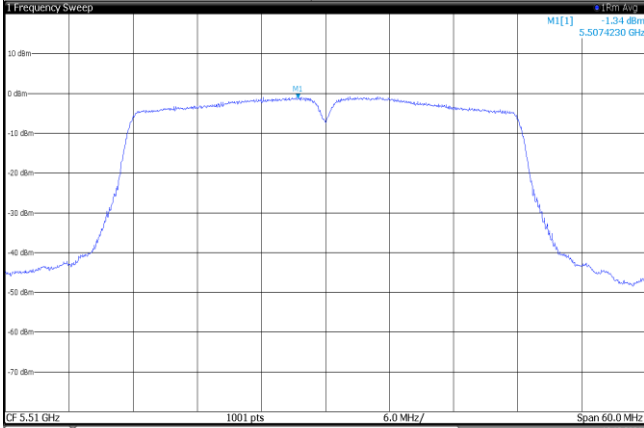
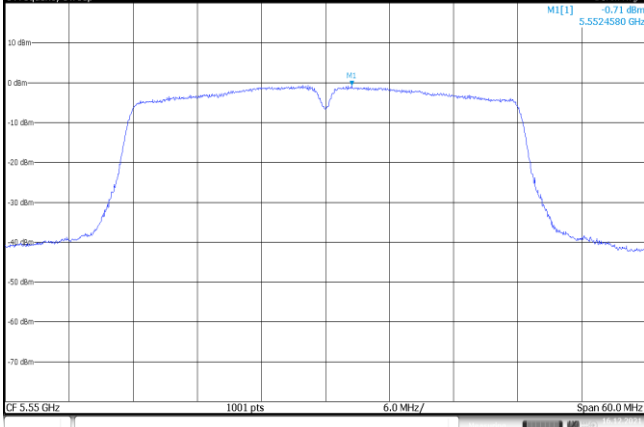
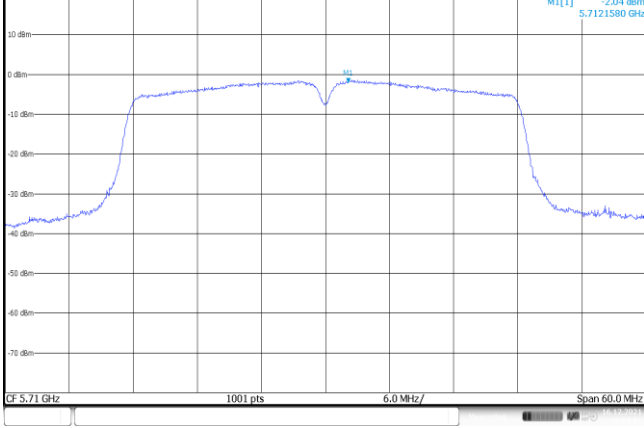


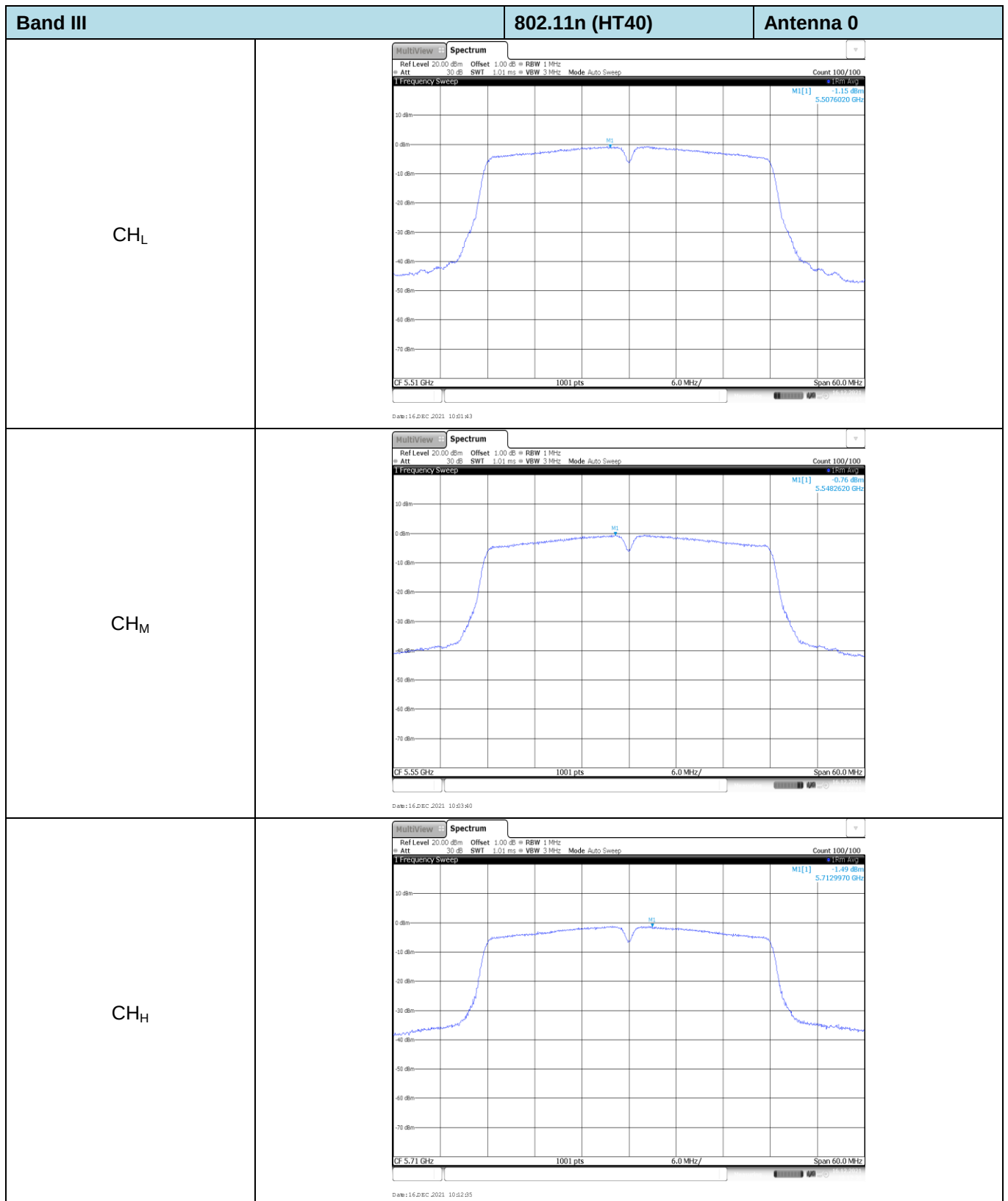


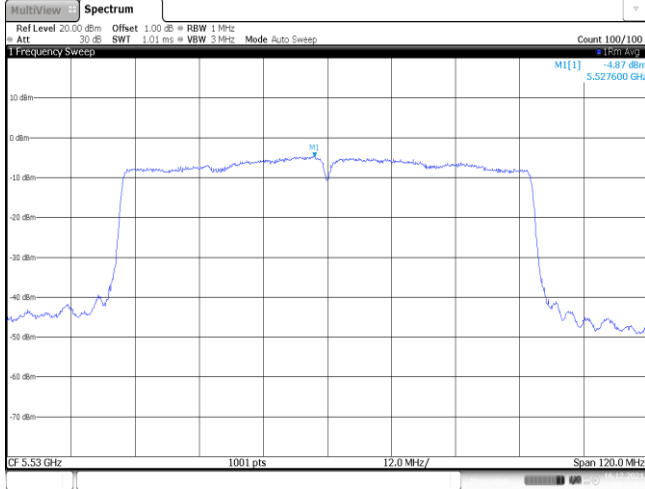
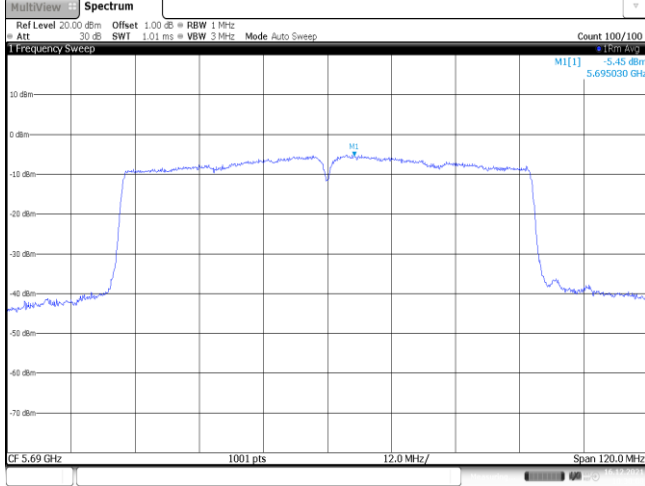
Band III	802.11ac (HT20)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 2.21 dBm 5.5011990 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:16 DEC 2021 09:56:02	
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 1 Frequency Sweep M1 1.89 dBm 5.5814690 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.58 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:16 DEC 2021 09:57:21	
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 1 Frequency Sweep M1 1.19 dBm 5.7211090 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.72 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:16 DEC 2021 09:59:20	



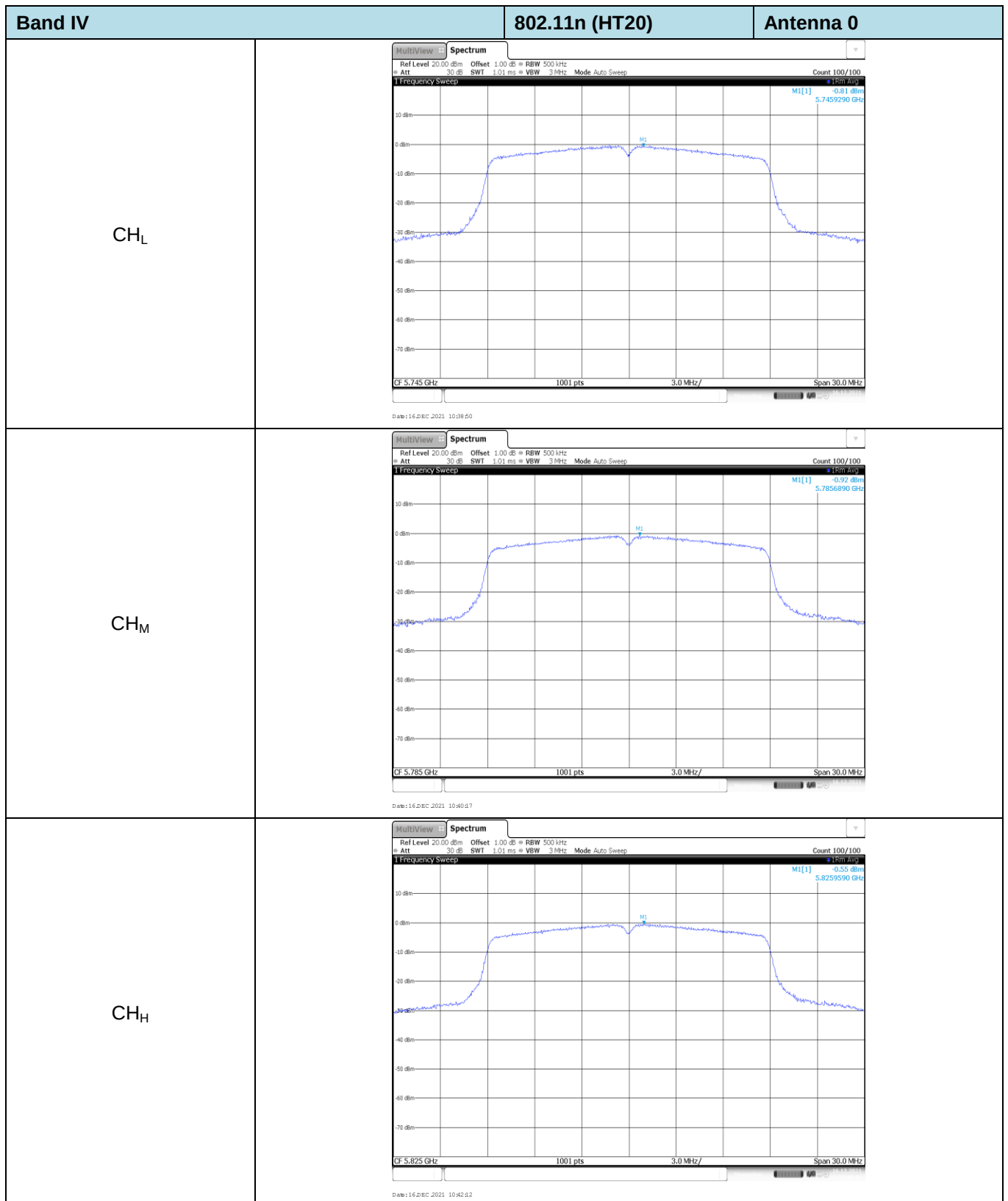


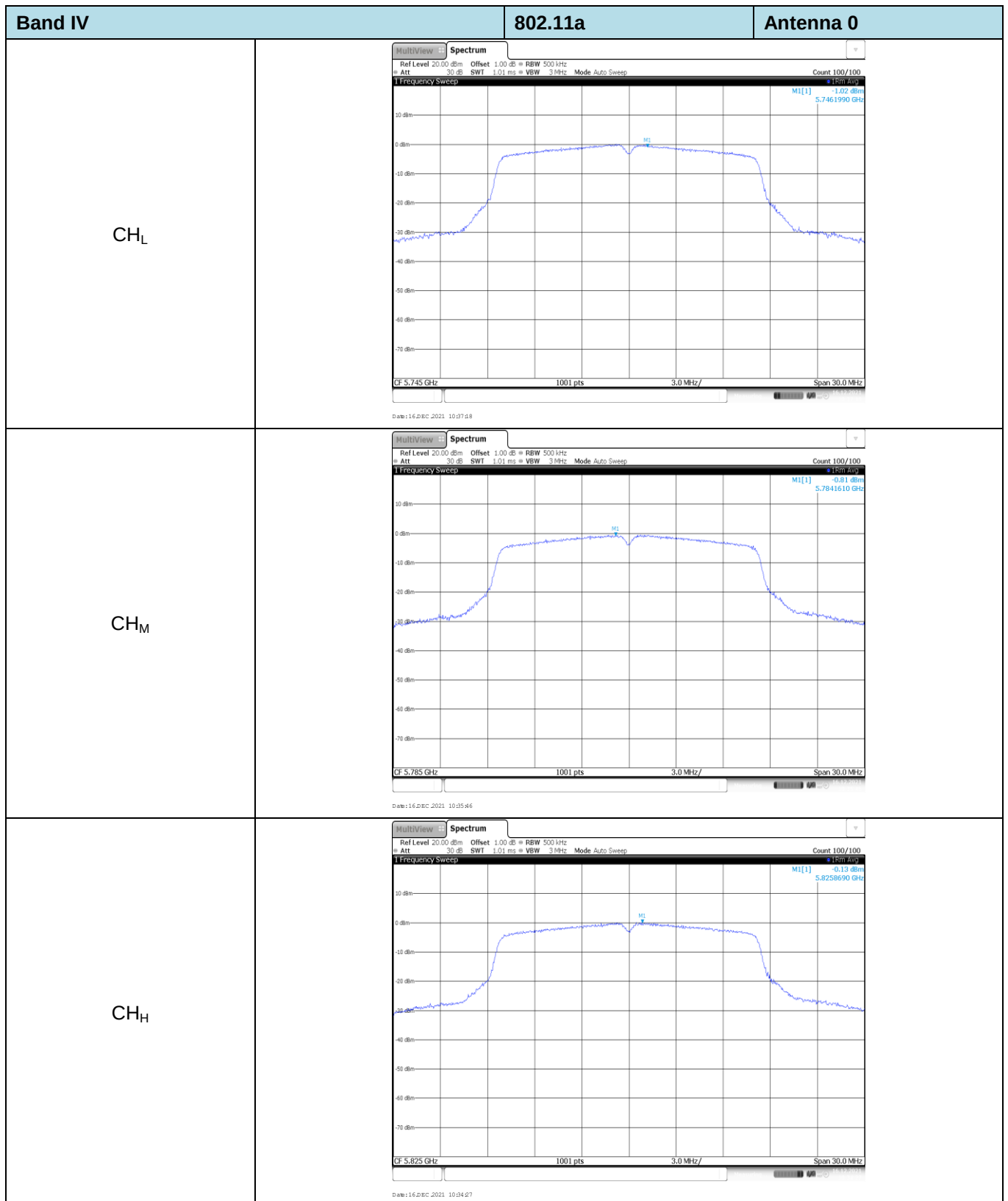
Band III	802.11ac (HT40)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.34 dBm 5.5074230 GHz  CF 5.51 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:16 DEC 2021 10:16:06	
CH _M	MultiView 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 1 Frequency Sweep M1[1] -0.71 dBm 5.5524580 GHz  CF 5.55 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:16 DEC 2021 10:17:19	
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 1 Frequency Sweep M1[1] -2.04 dBm 5.7121580 GHz  CF 5.71 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:16 DEC 2021 10:14:41	

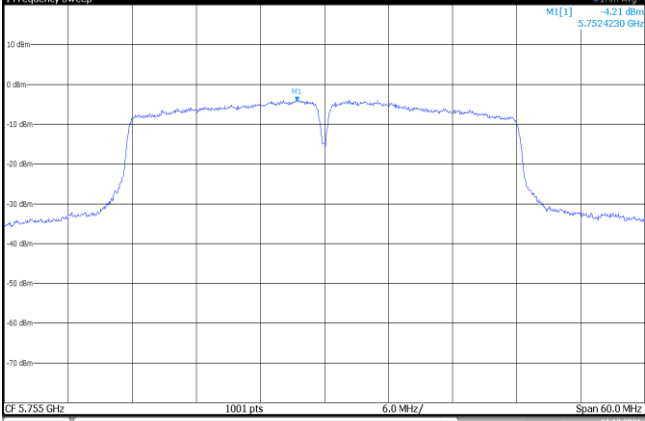
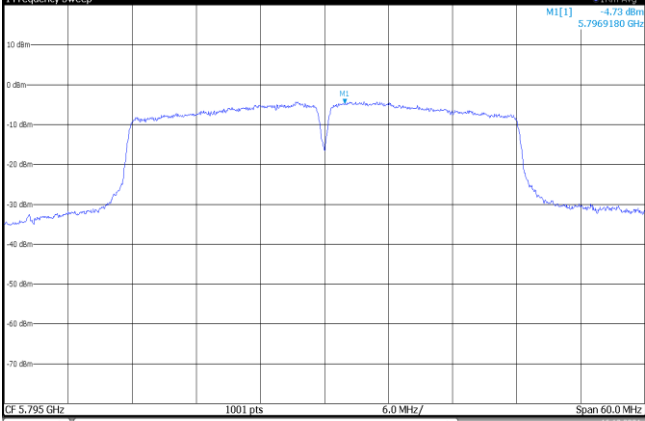


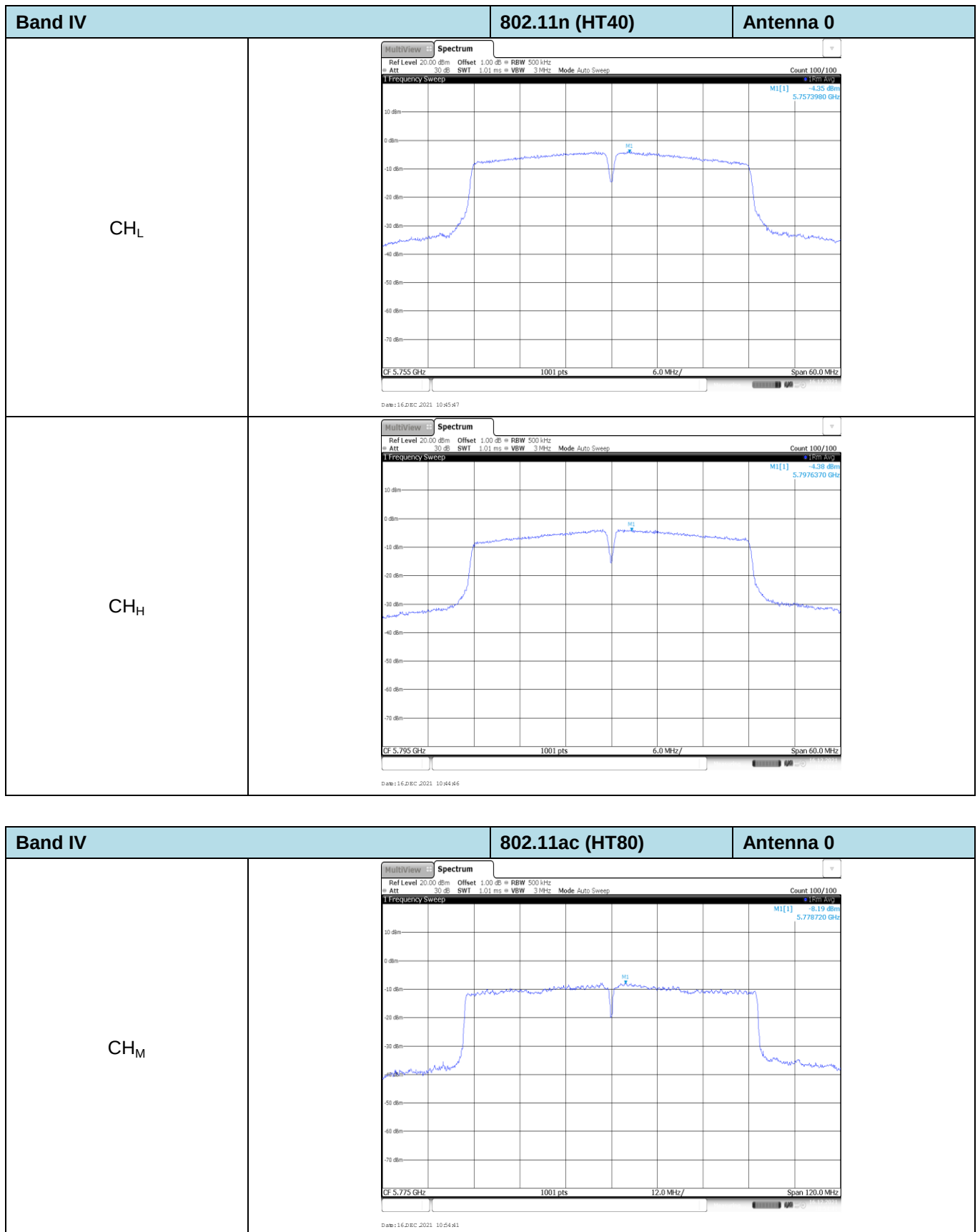
Band III	802.11ac (HT80)	Antenna 0
CH _L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -4.87 dBm 5.527600 GHz CF 5.53 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 16 DEC 2021 10:28:01	
CH _H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -3.45 dBm 5.695000 GHz CF 5.69 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 16 DEC 2021 10:30:08	

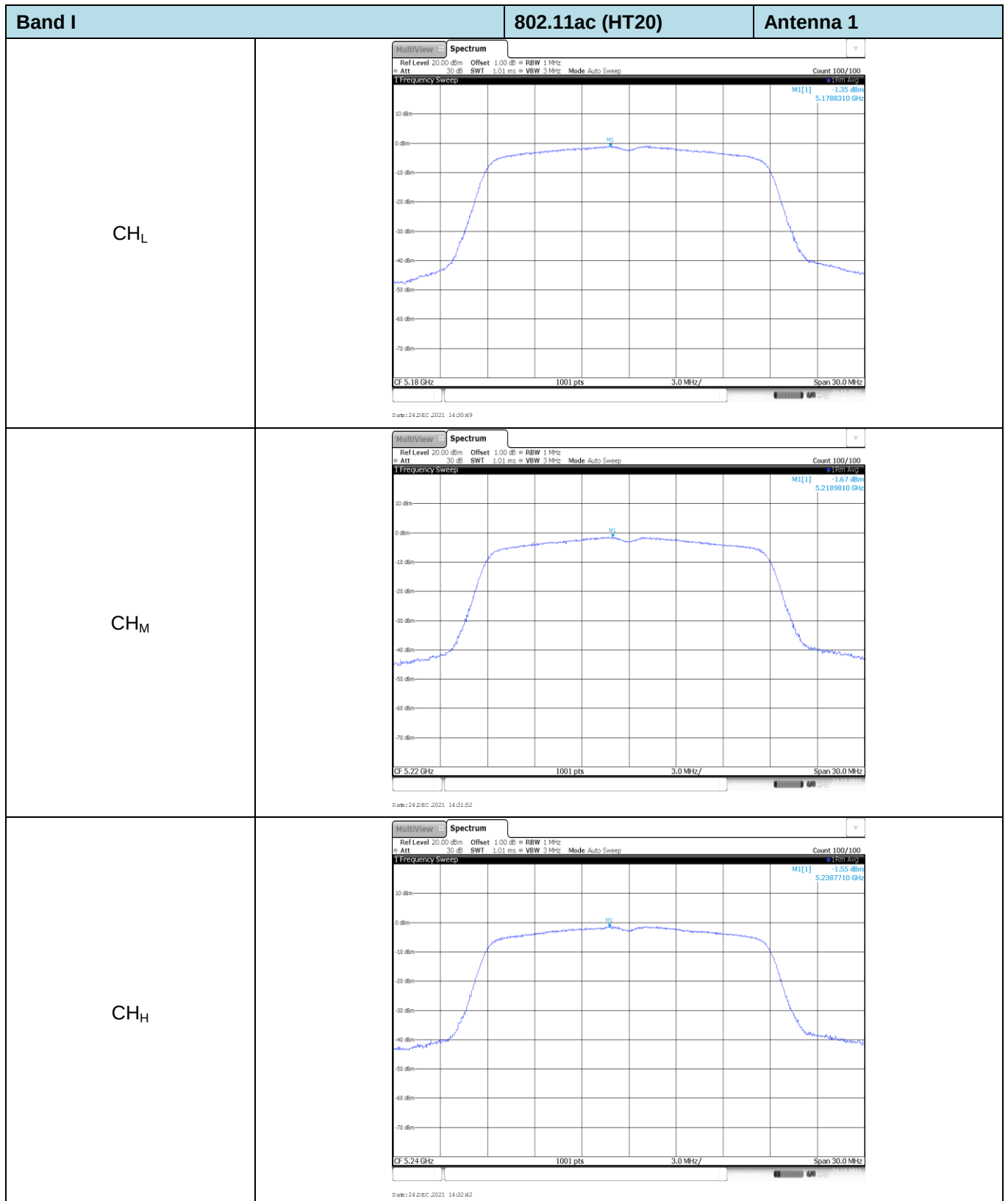
Band IV	802.11ac (HT20)	Antenna 0
CH _L	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] -0.95 dBm 5.7438310 GHz Frequency Sweep CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 DEC 2021 10:47:46	
CH _M	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] -1.42 dBm 5.7861990 GHz Frequency Sweep CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 DEC 2021 10:49:03	
CH _H	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] -0.60 dBm 5.8259290 GHz Frequency Sweep CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 DEC 2021 10:50:12	



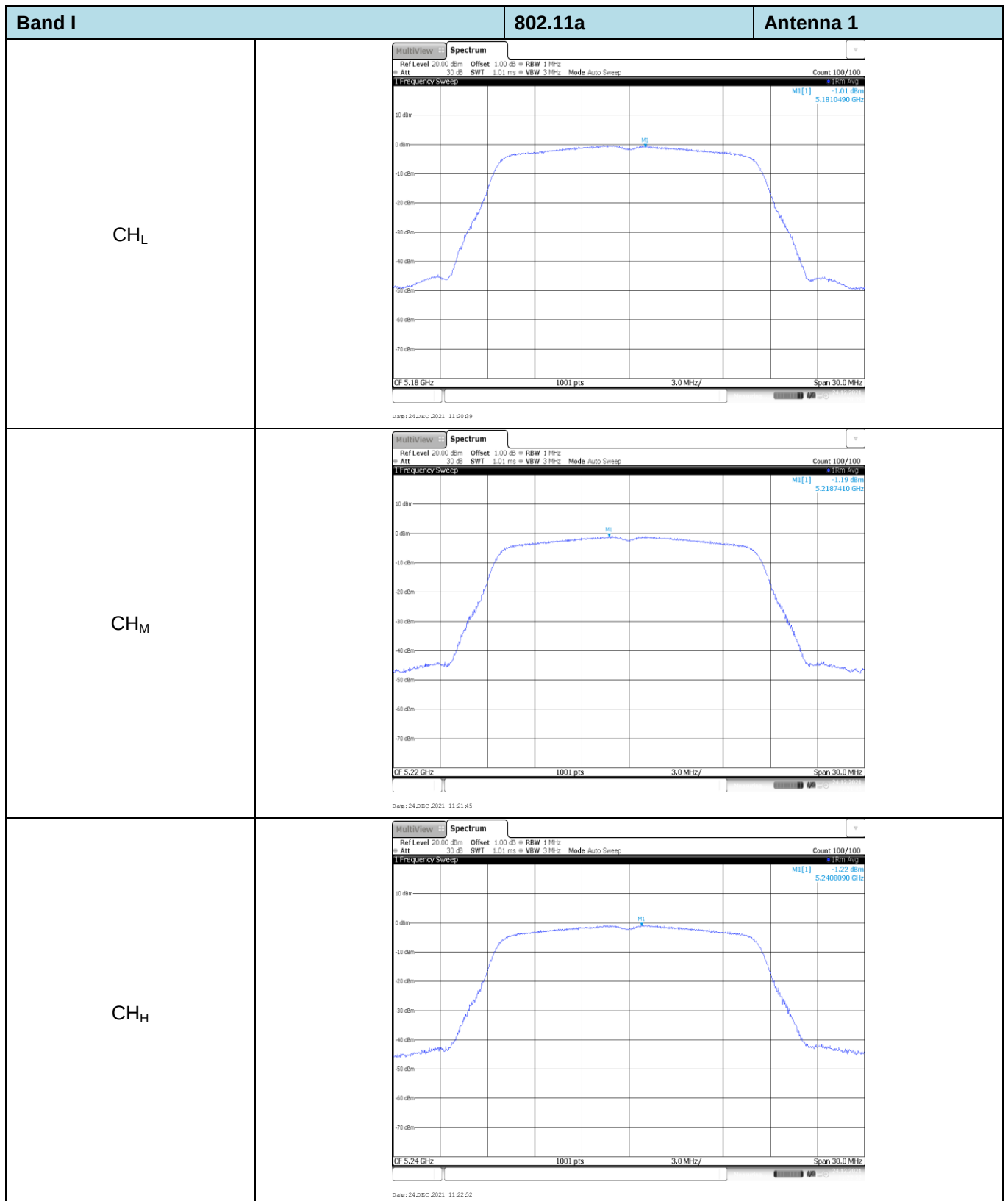


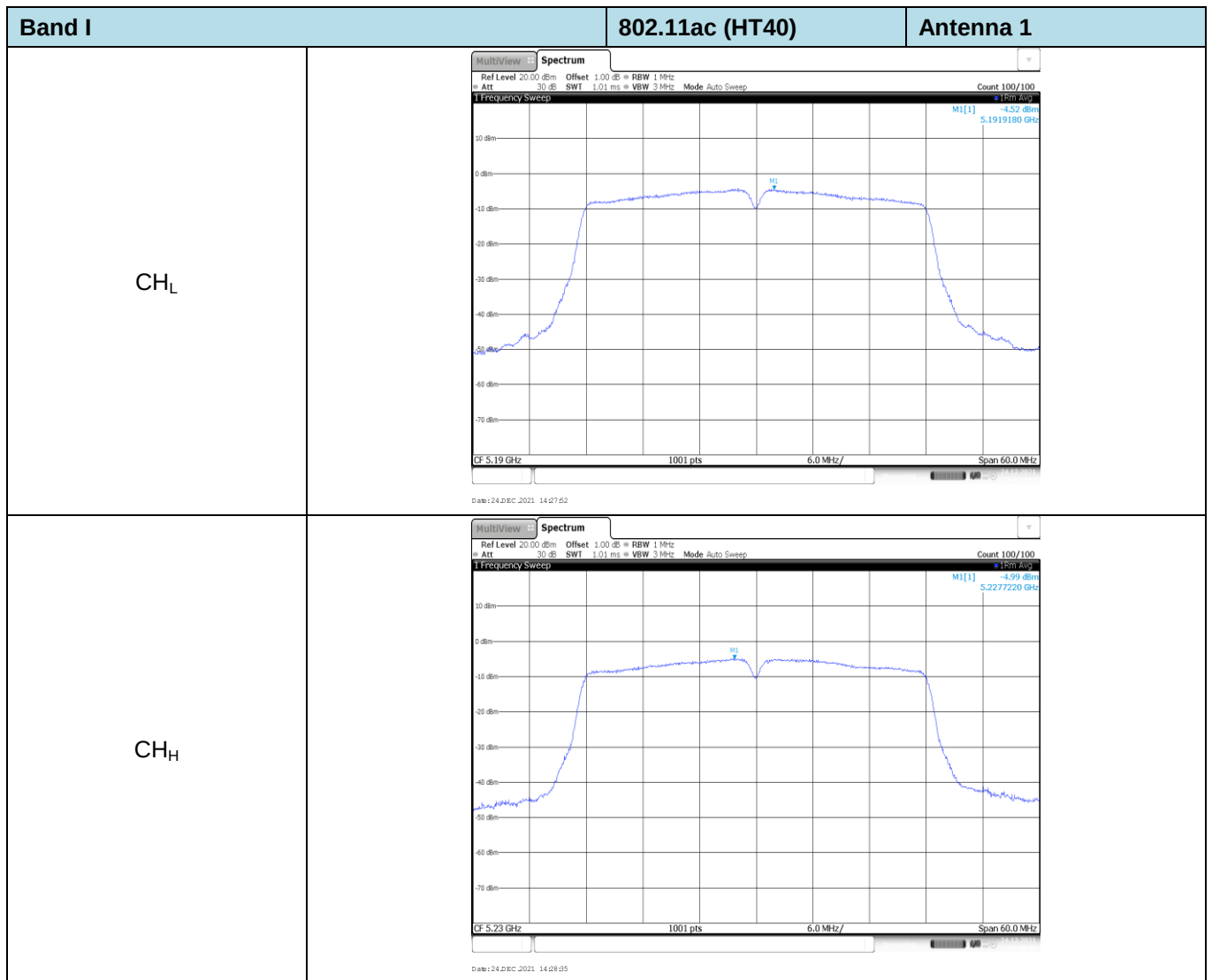
Band IV		802.11ac (HT40)	Antenna 0
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 15m Avg Frequency Sweep  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 16 DEC 2021 10:52:11		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 15m Avg Frequency Sweep  CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 16 DEC 2021 10:53:21		

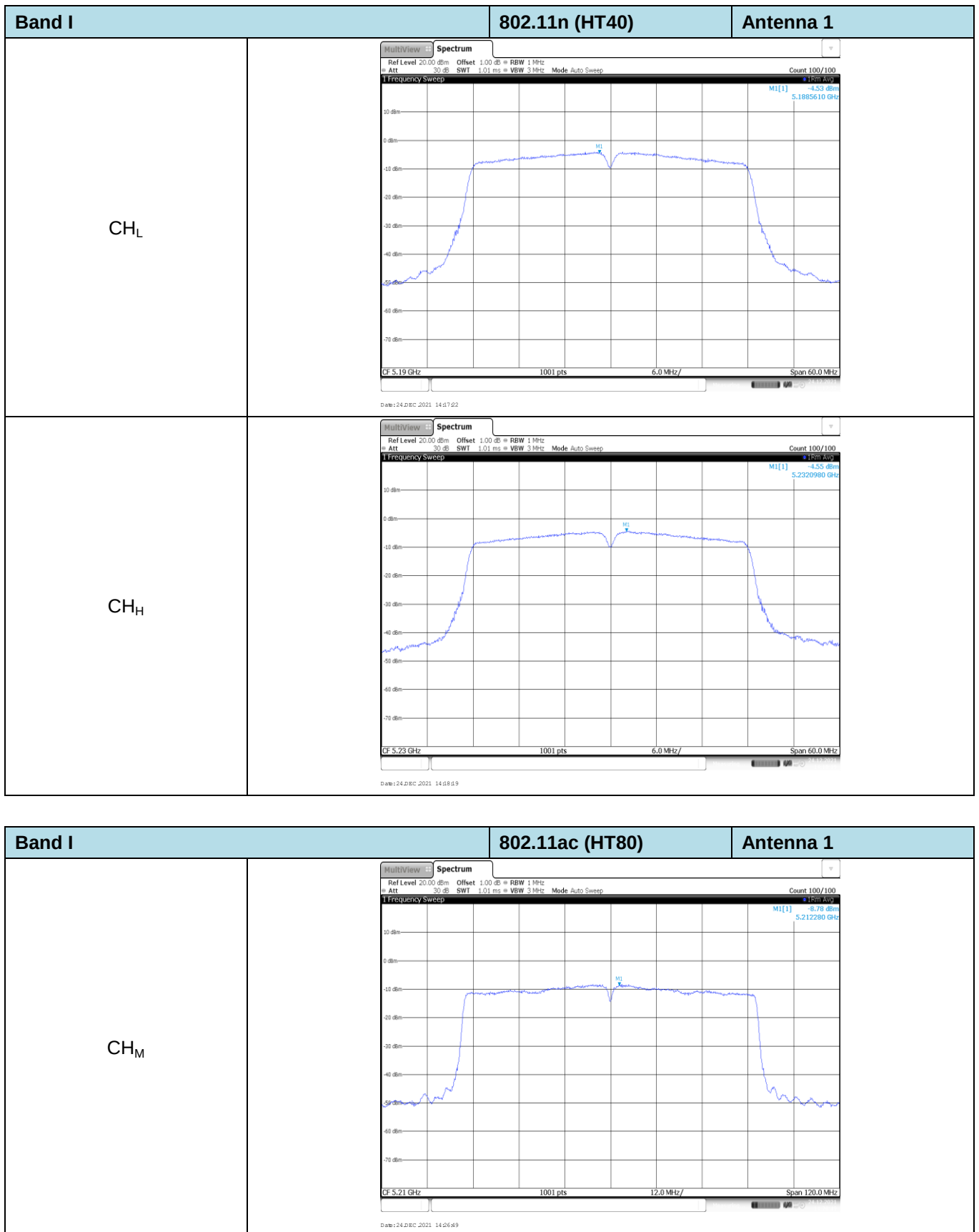


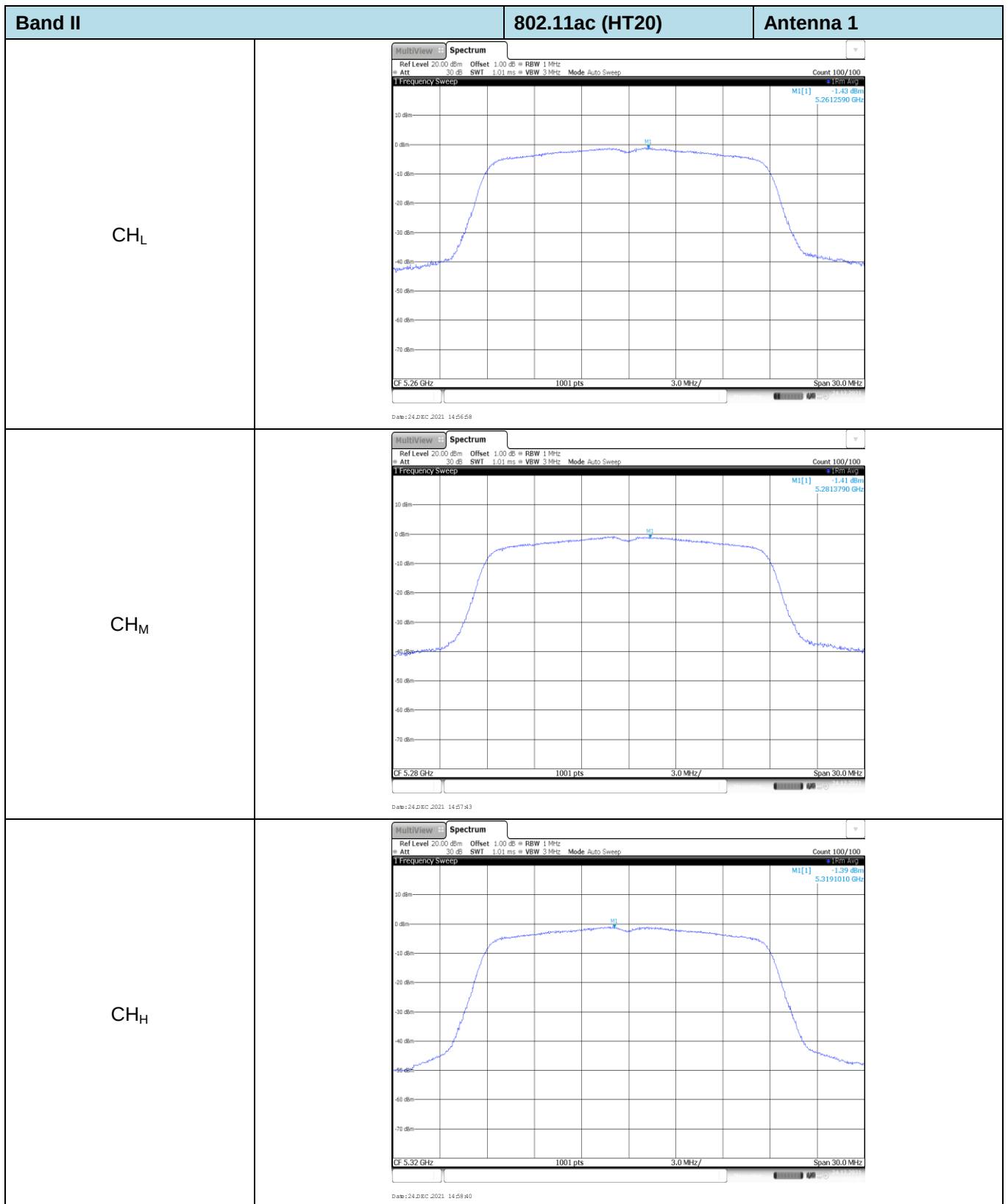


Band I	802.11n (HT20)	Antenna 1
CH _L	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.17 dBm 5.1788610 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 14:13:24	
CH _M	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.56 dBm 5.2184120 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 14:14:09	
CH _H	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWF 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.34 dBm 5.2382920 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 14:15:42	

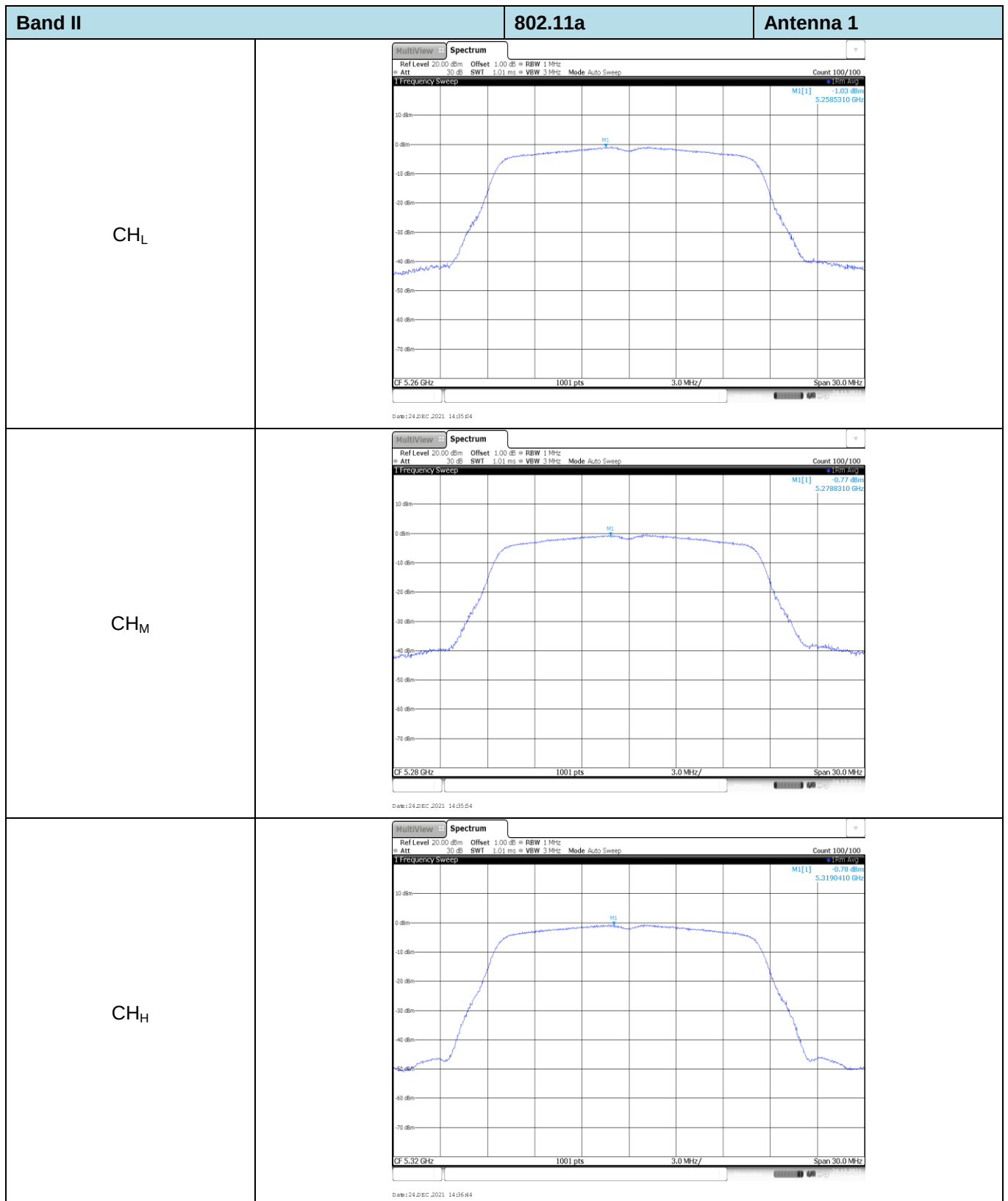


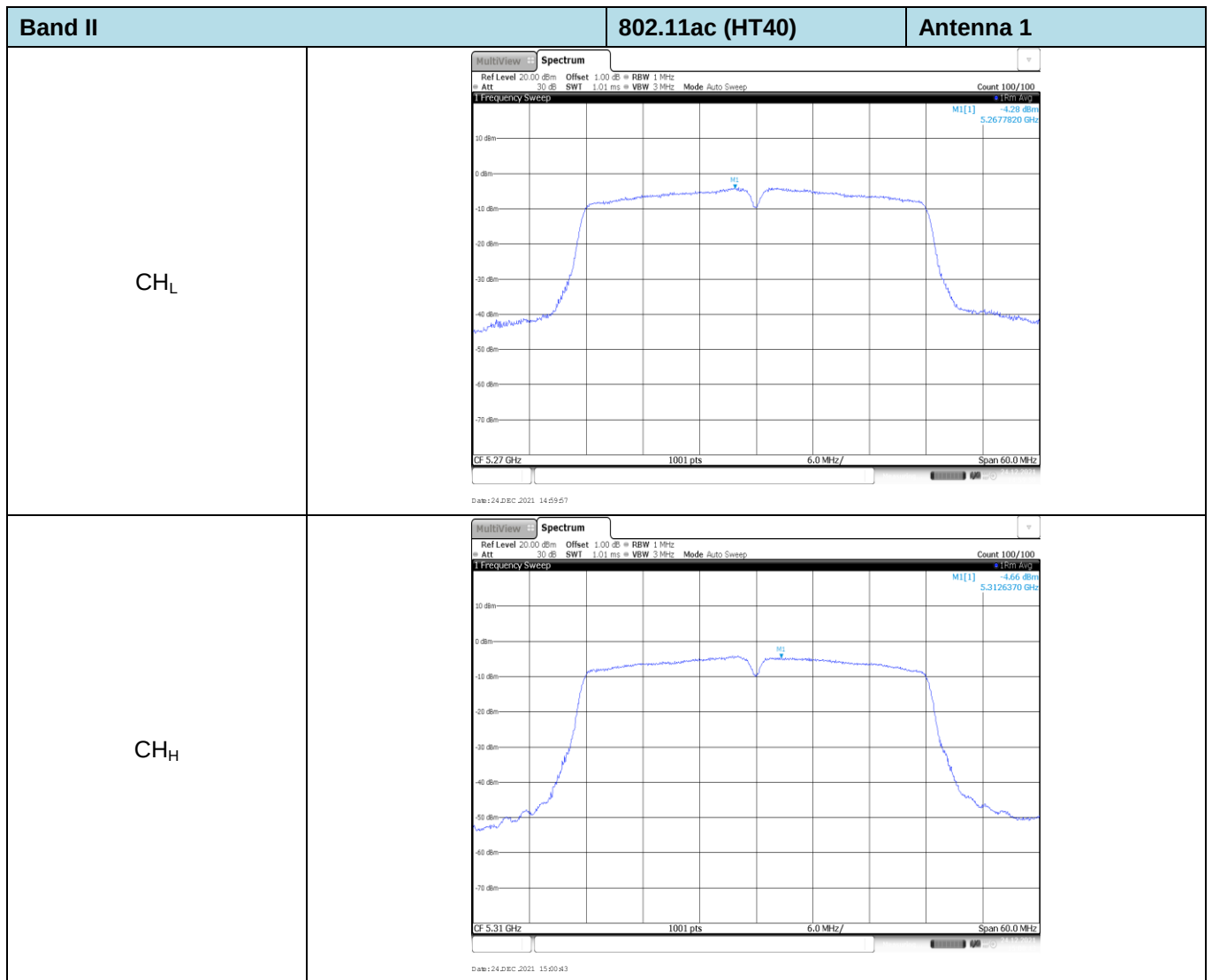


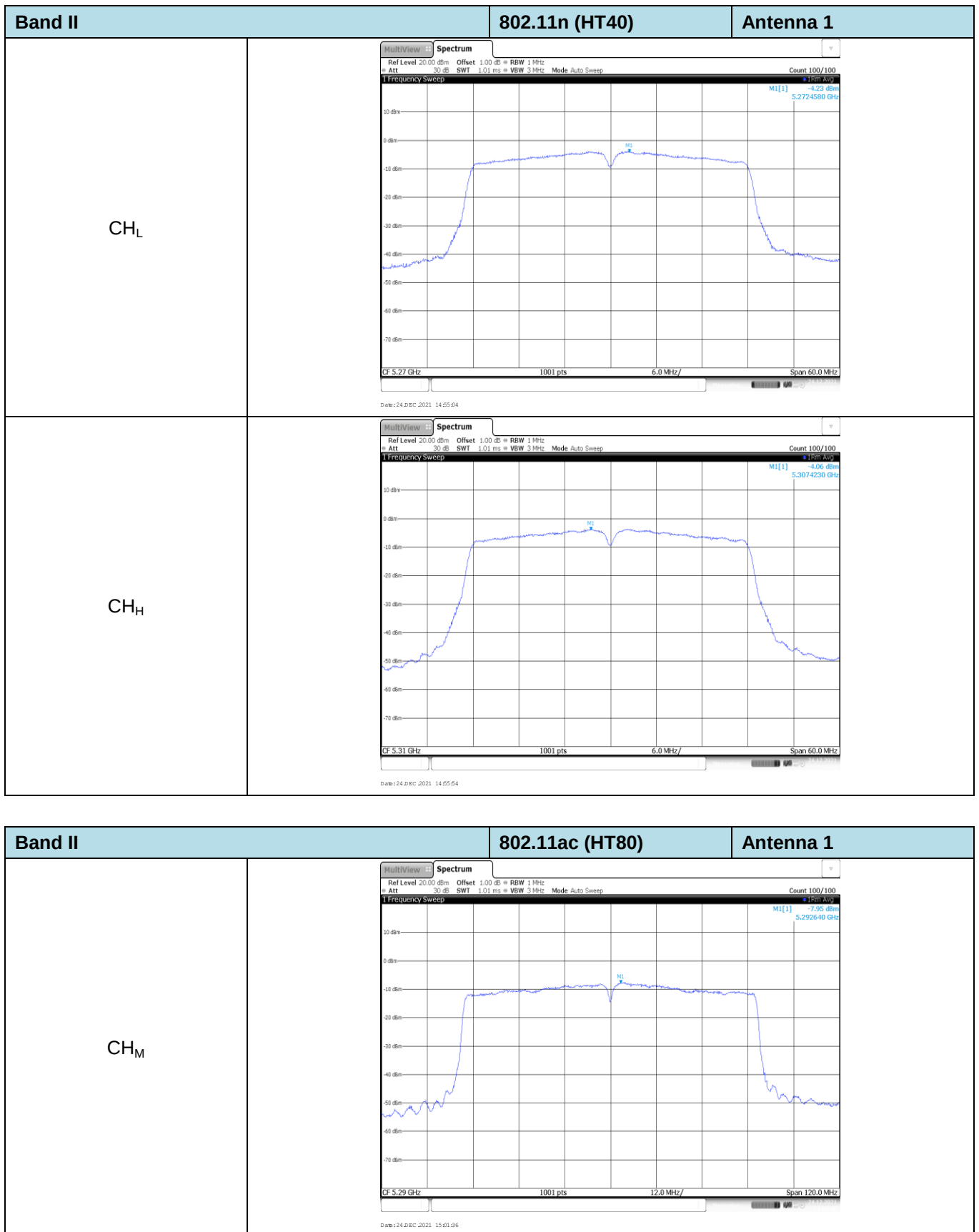


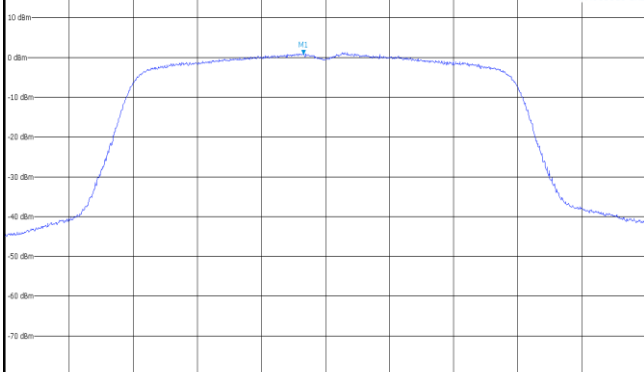
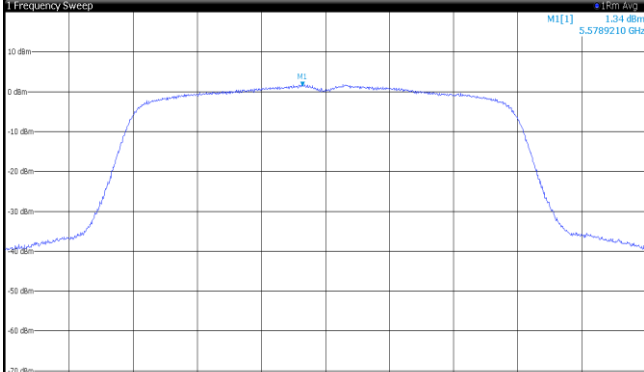
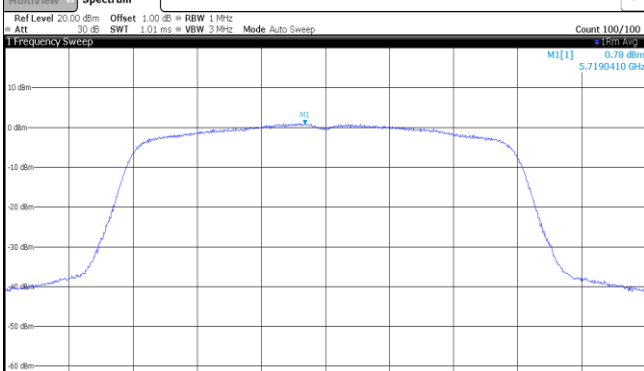


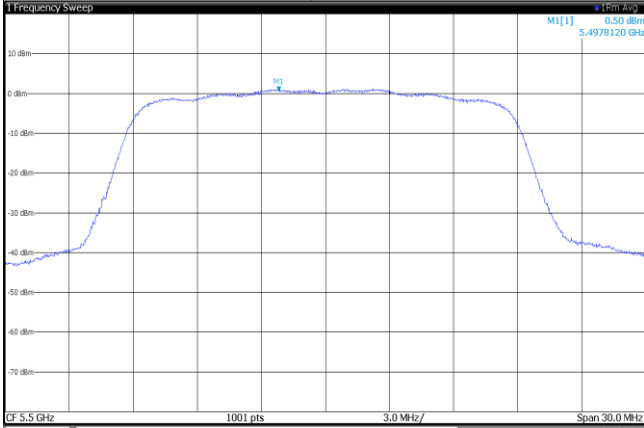
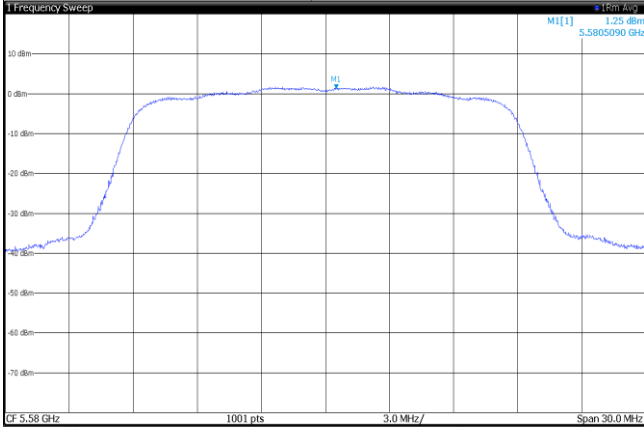
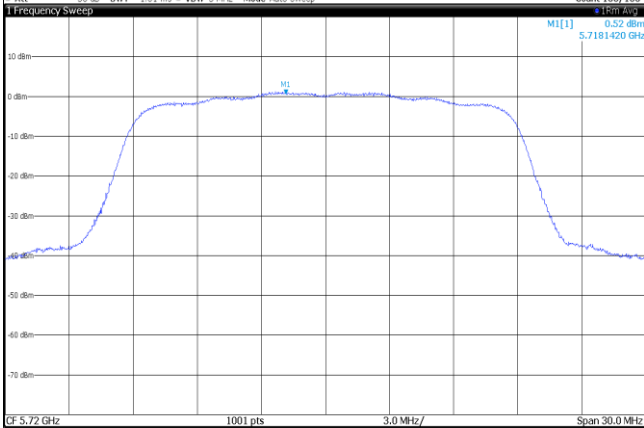
Band II	802.11n (HT20)		Antenna 1
CH _L	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Freq Sweep 1001 pts 3.0 MHz/ Span 30.0 MHz MI(1) -1.34 dBm 5.2589510 GHz CF 5.26 GHz Date: 24 DEC 2021 14:07:49		
CH _M	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Freq Sweep 1001 pts 3.0 MHz/ Span 30.0 MHz MI(1) -0.86 dBm 5.2792810 GHz CF 5.28 GHz Date: 24 DEC 2021 14:02:48		
CH _H	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 1 Freq Sweep 1001 pts 3.0 MHz/ Span 30.0 MHz MI(1) -1.63 dBm 5.3191010 GHz CF 5.32 GHz Date: 24 DEC 2021 14:53:44		

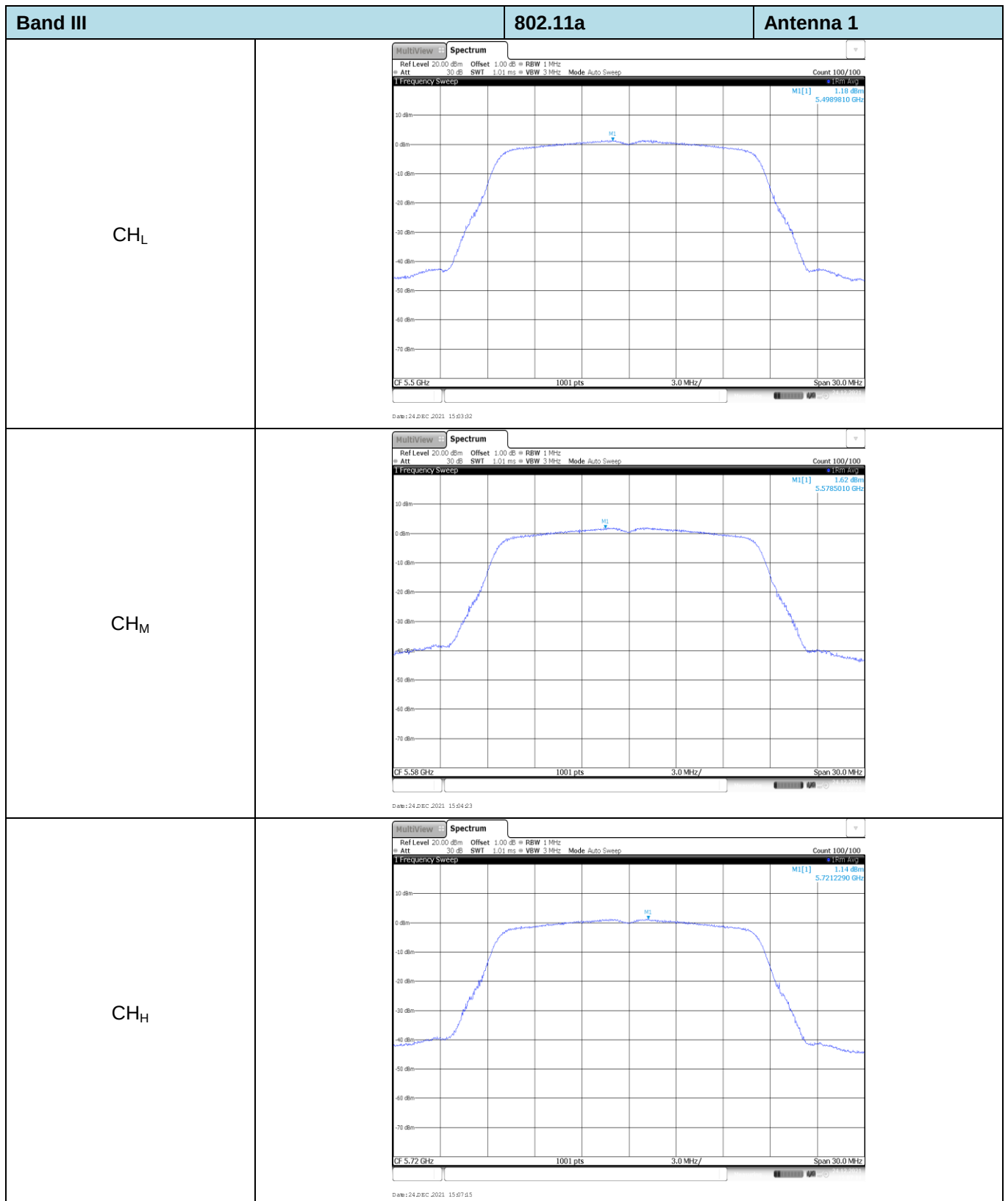


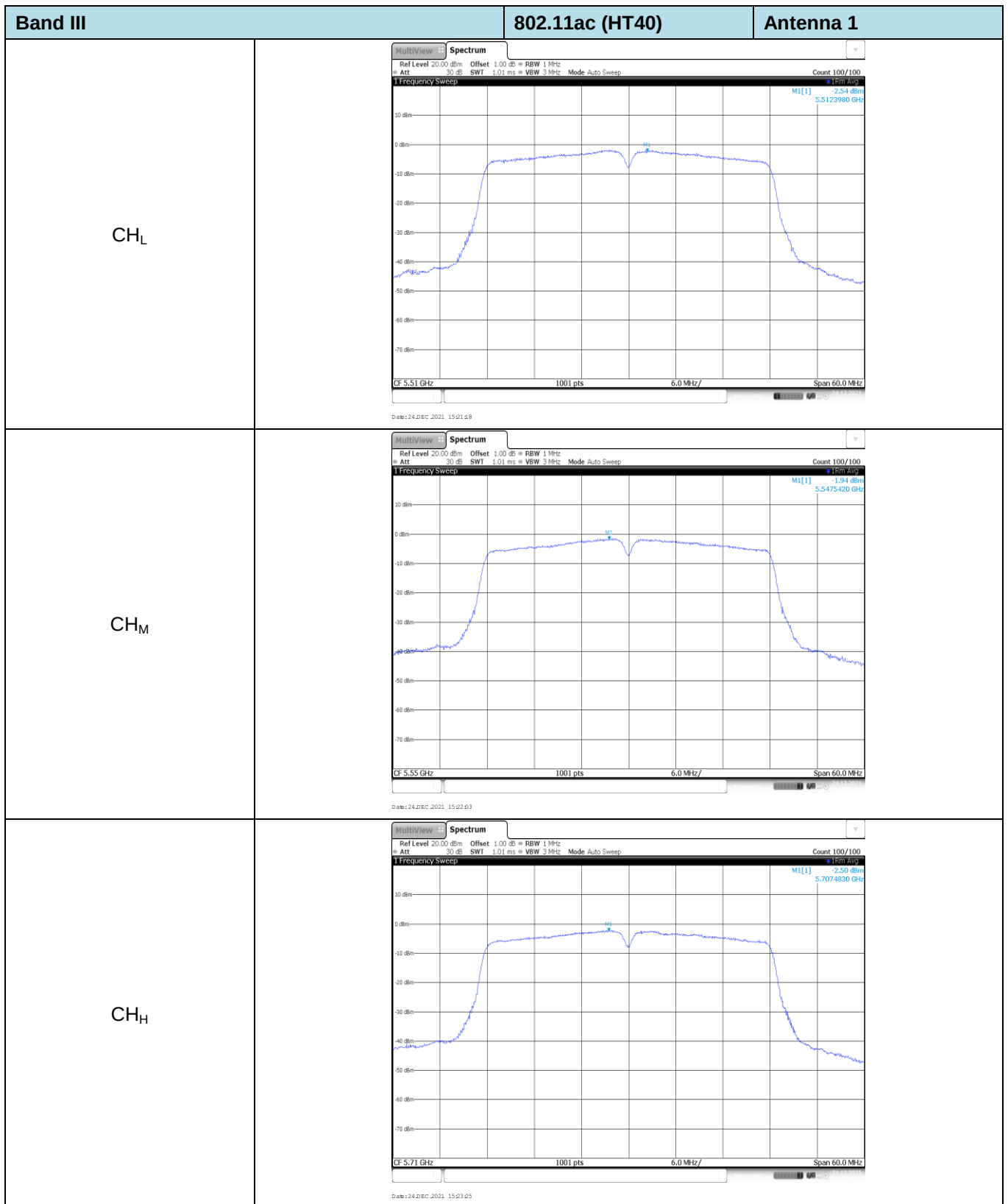




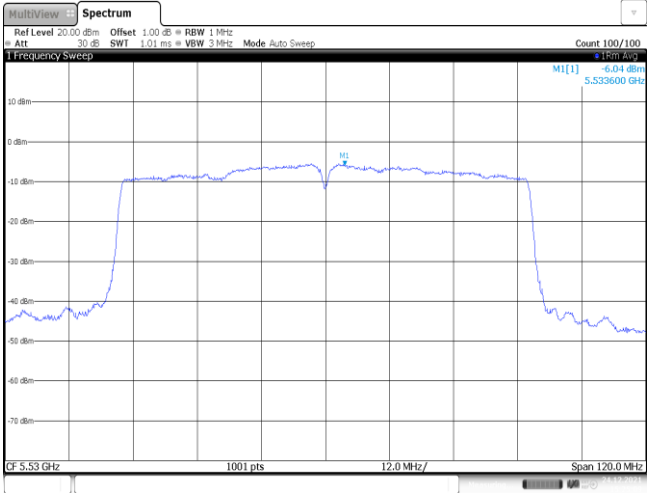
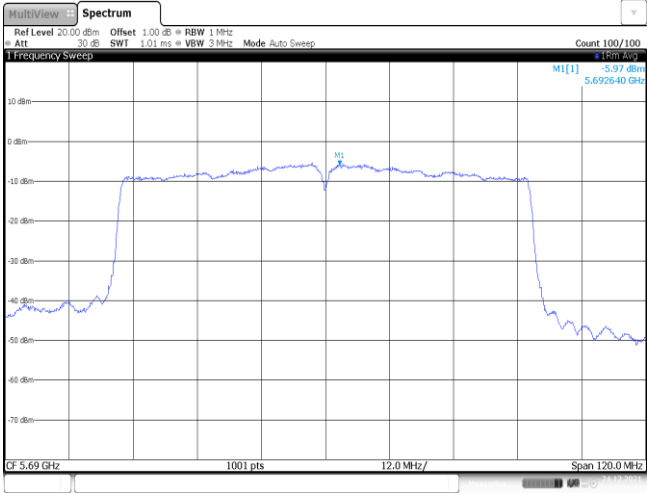
Band III	802.11ac (HT20)		Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.78 dBm 5.4989810 GHz  CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:17:21		
CH _M	MultiView 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 1 Frequency Sweep M1[1] 1.34 dBm 5.5789210 GHz  CF 5.58 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:18:11		
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 1 Frequency Sweep M1[1] 0.78 dBm 5.7190410 GHz  CF 5.72 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:19:13		

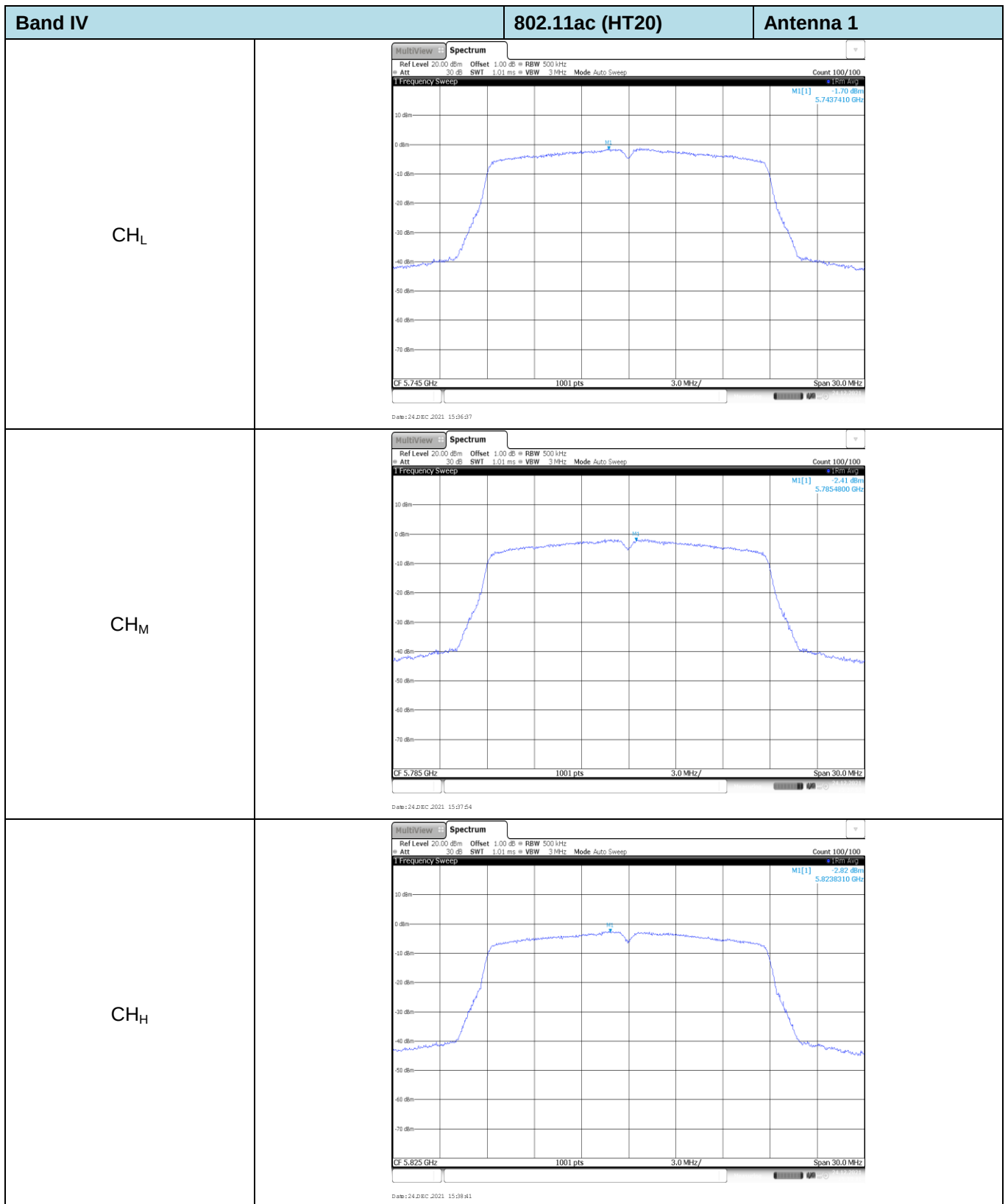
Band III	802.11n (HT20)	Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.50 dBm 5.4978120 GHz  CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:08:59	
CH _M	MultiView 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 1 Frequency Sweep M1[1] 1.25 dBm 5.5805090 GHz  CF 5.58 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:09:55	
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 1 Frequency Sweep M1[1] 0.52 dBm 5.7181420 GHz  CF 5.72 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:11:07	



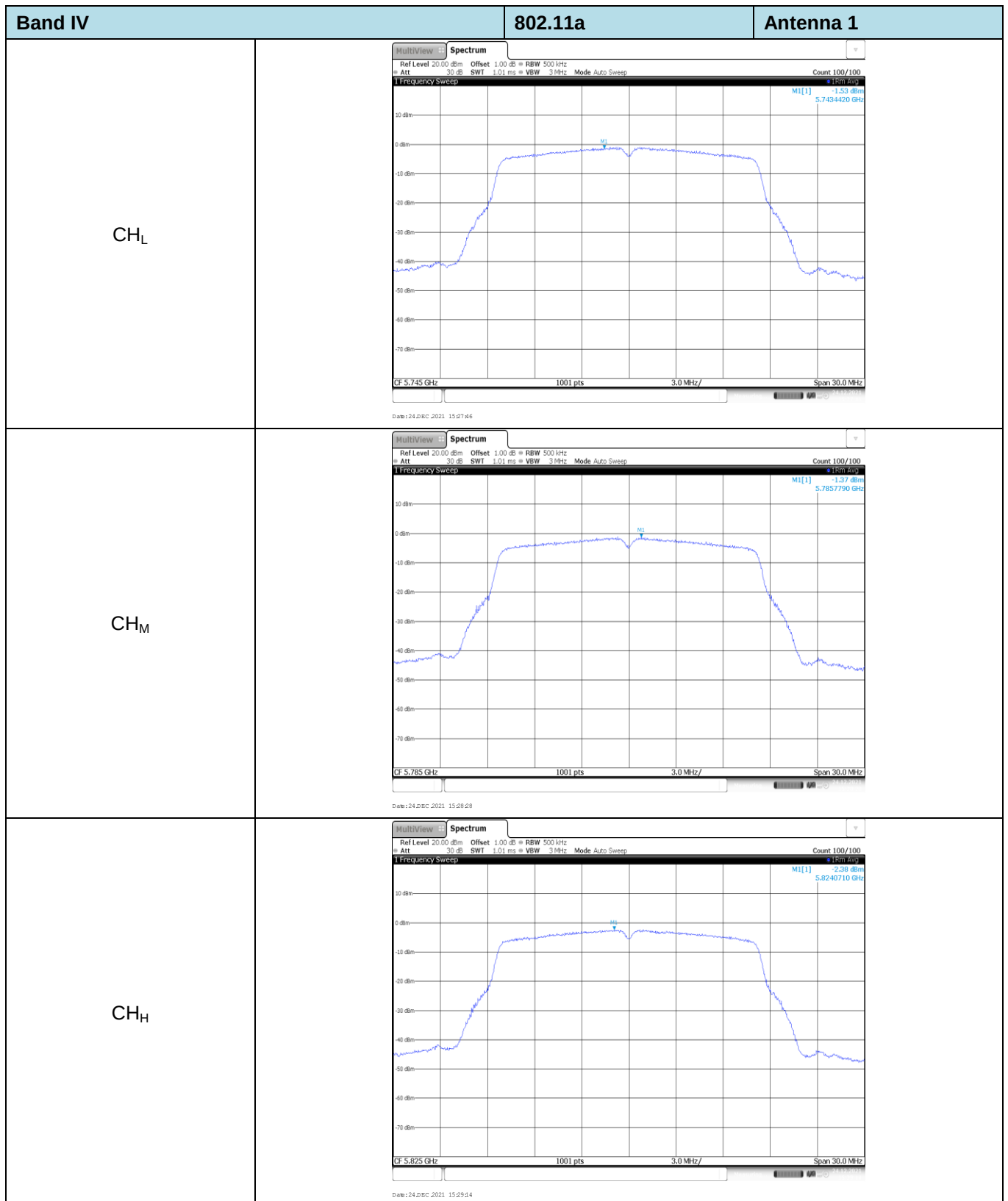


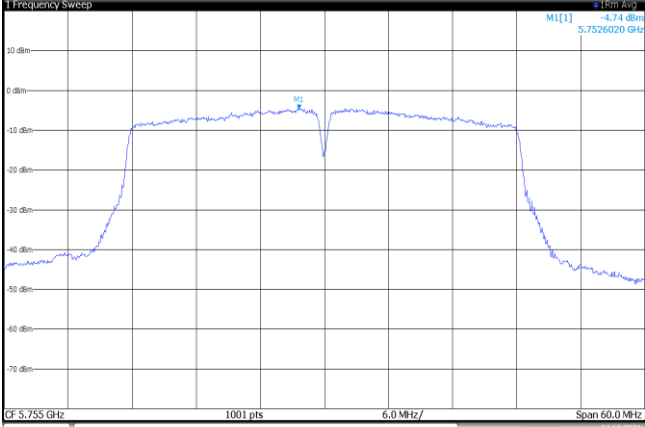
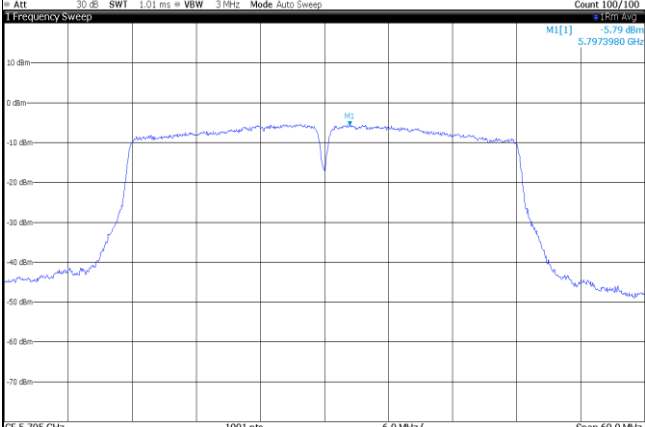
Band III	802.11n (HT40)	Antenna 1
CH _L	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.52 dBm 5.511990 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.51 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 24 DEC 2021 15:12:44	
CH _M	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.45 dBm 5.5485610 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.55 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 24 DEC 2021 15:13:48	
CH _H	MultiviewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.85 dBm 5.7073030 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.71 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 24 DEC 2021 15:16:09	

Band III	802.11ac (HT80)	Antenna 1
CH _L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] -6.04 dBm 5.53600 GHz CF 5.53 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 24 DEC 2021 15:25:40	
CH _H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] -5.97 dBm 5.692640 GHz CF 5.69 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 24 DEC 2021 15:26:41	



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 SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Port Avg Frequency Sweep M1[1] -1.11 dBm 5.7462290 GHz 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:02:44	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Port Avg Frequency Sweep M1[1] -1.62 dBm 5.7839210 GHz 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:02:59	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Port Avg Frequency Sweep M1[1] -2.04 dBm 5.8241010 GHz 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24 DEC 2021 15:03:05	



Band IV		802.11ac (HT40)	Antenna 1
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.00 dB RBW 500 kHz Count 100/100 100% Avg 1 Frequency Sweep SWT 1.01 ms VBW 3 MHz Mode Auto Sweep  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 24 DEC 2021 15:09:41		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.00 Offset 1.00 dB RBW 500 kHz Count 100/100 100% Avg 1 Frequency Sweep SWT 1.01 ms VBW 3 MHz Mode Auto Sweep  CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 24 DEC 2021 15:40:24		

Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.46	Pass
			CH _M	20.49	
			CH _H	20.40	
		802.11n	CH _L	20.58	Pass
			CH _M	20.49	
			CH _H	20.43	
		802.11a	CH _L	20.19	Pass
			CH _M	20.25	
			CH _H	20.34	
	40	802.11ac	CH _L	40.74	Pass
			CH _H	40.62	
		802.11n	CH _L	40.80	Pass
			CH _H	40.62	
	80	802.11ac	CH _M	81.00	Pass
II	20	802.11ac	CH _L	20.52	Pass
			CH _M	20.31	
			CH _H	20.49	
		802.11n	CH _L	20.79	Pass
			CH _M	20.55	
			CH _H	20.61	
		802.11a	CH _L	20.43	Pass
			CH _M	20.34	
			CH _H	20.43	
	40	802.11ac	CH _L	40.80	Pass
			CH _H	40.74	
		802.11n	CH _L	41.52	Pass
			CH _H	40.98	
	80	802.11ac	CH _M	81.24	Pass

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
III	20	802.11ac	CH _L	20.40	Pass
			CH _M	20.46	
			CH _H	21.30	
		802.11n	CH _L	20.64	Pass
			CH _M	20.67	
			CH _H	20.64	
		802.11a	CH _L	20.28	Pass
			CH _M	20.28	
			CH _H	20.79	
	40	802.11ac	CH _L	40.56	Pass
			CH _M	40.98	
			CH _H	40.62	
		802.11n	CH _L	41.16	Pass
			CH _M	41.16	
			CH _H	41.46	
	80	802.11ac	CH _L	81.12	Pass
			CH _H	81.24	

Band I

802.11ac (HT20)

CH_L

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz

AT 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep

Count 500/500

1 Frequency Sweep

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	5.16971 GHz	-22.03 dBm		
M2	1	1	5.17868 GHz	5.81 dBm		
D3	M1	1	20.46 MHz	1.32 dB		

CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

Date: 15 DEC 2021 16:56:03

CH_M

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz

AT 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep

Count 500/500

1 Frequency Sweep

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	5.20977 GHz	-20.56 dBm		
M2	1	1	5.21874 GHz	6.49 dBm		
D3	M1	1	20.49 MHz	0.24 dB		

CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

Date: 15 DEC 2021 16:57:42

CH_H

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz

AT 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep

Count 500/500

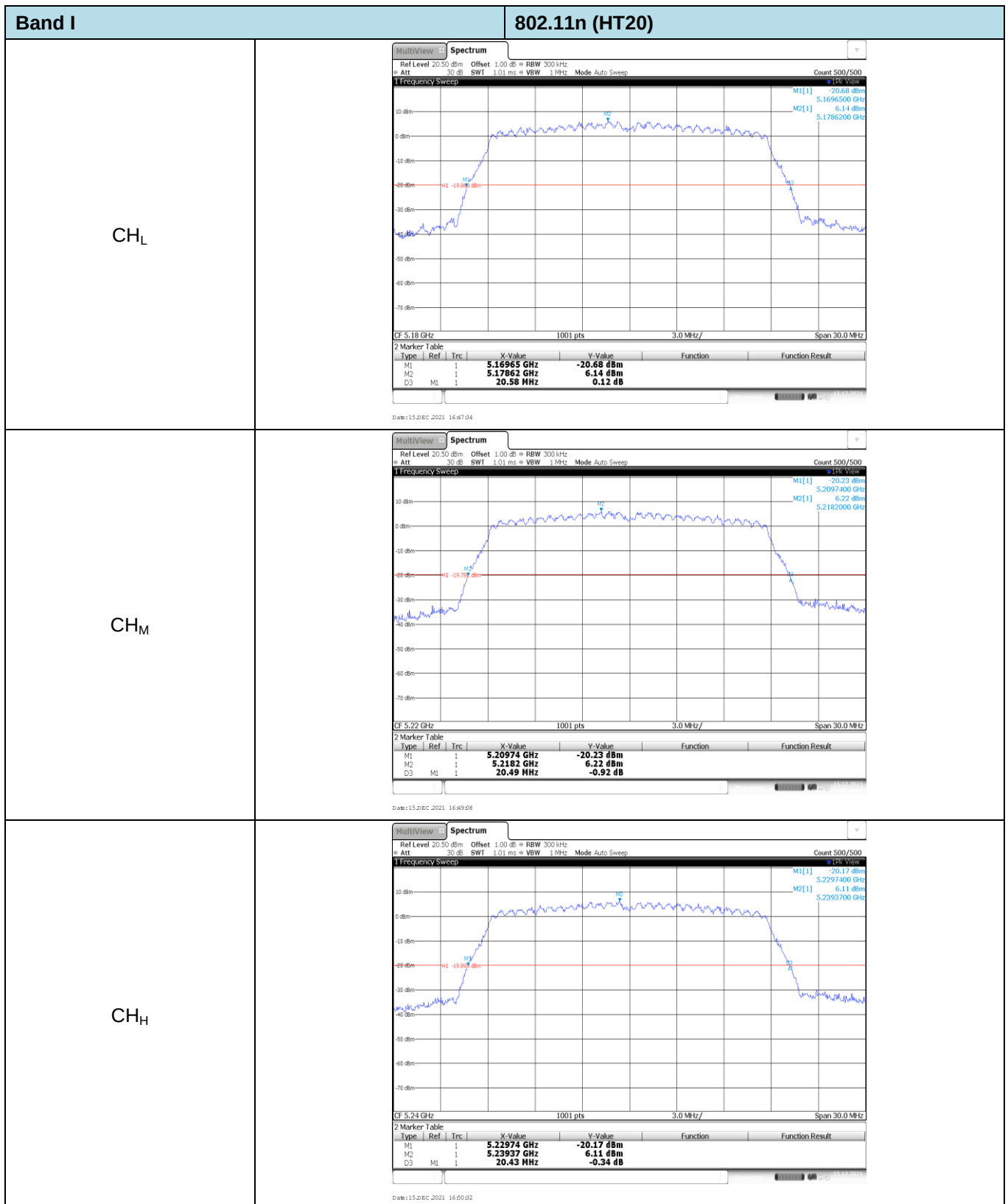
1 Frequency Sweep

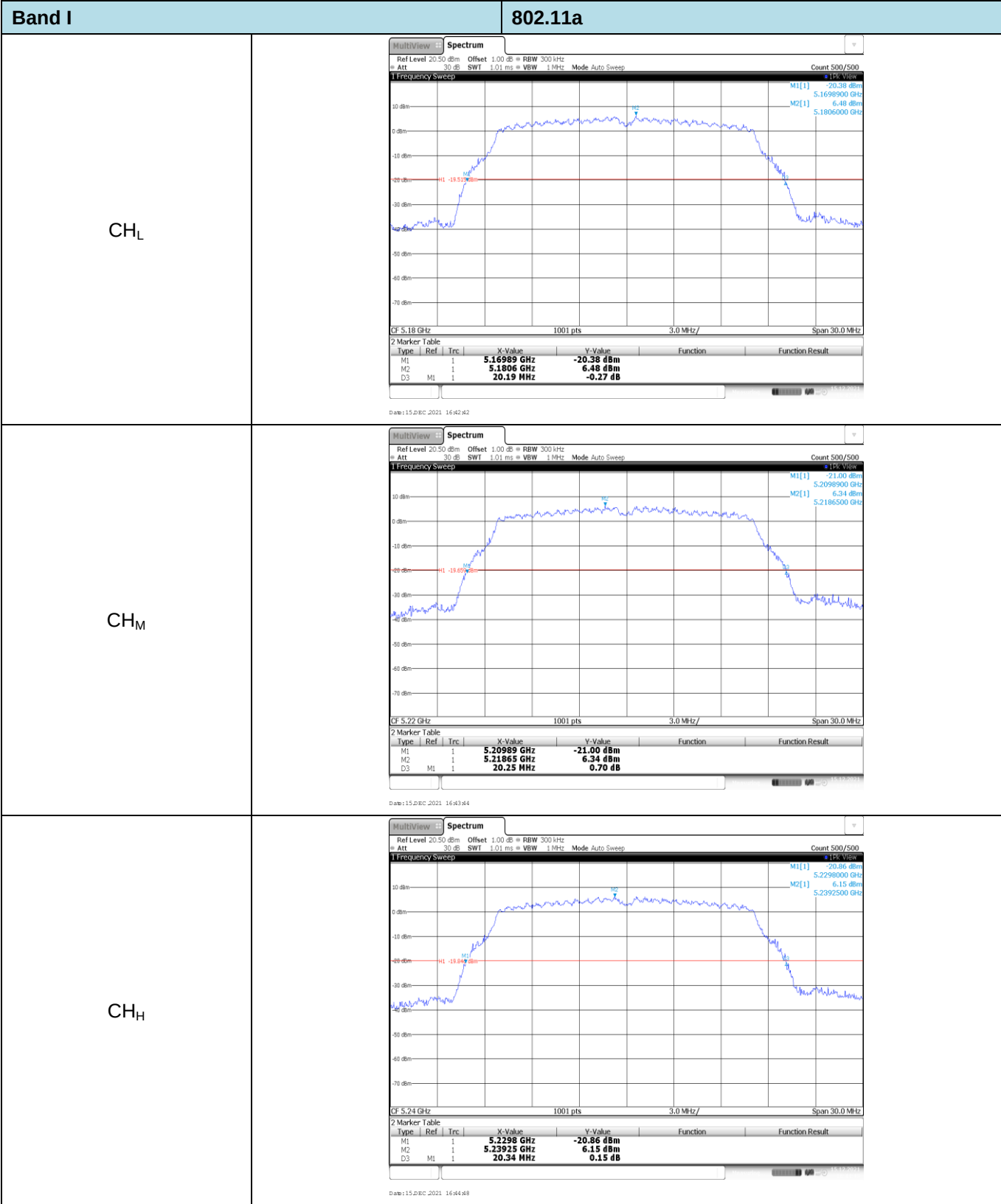
2 Marker Table

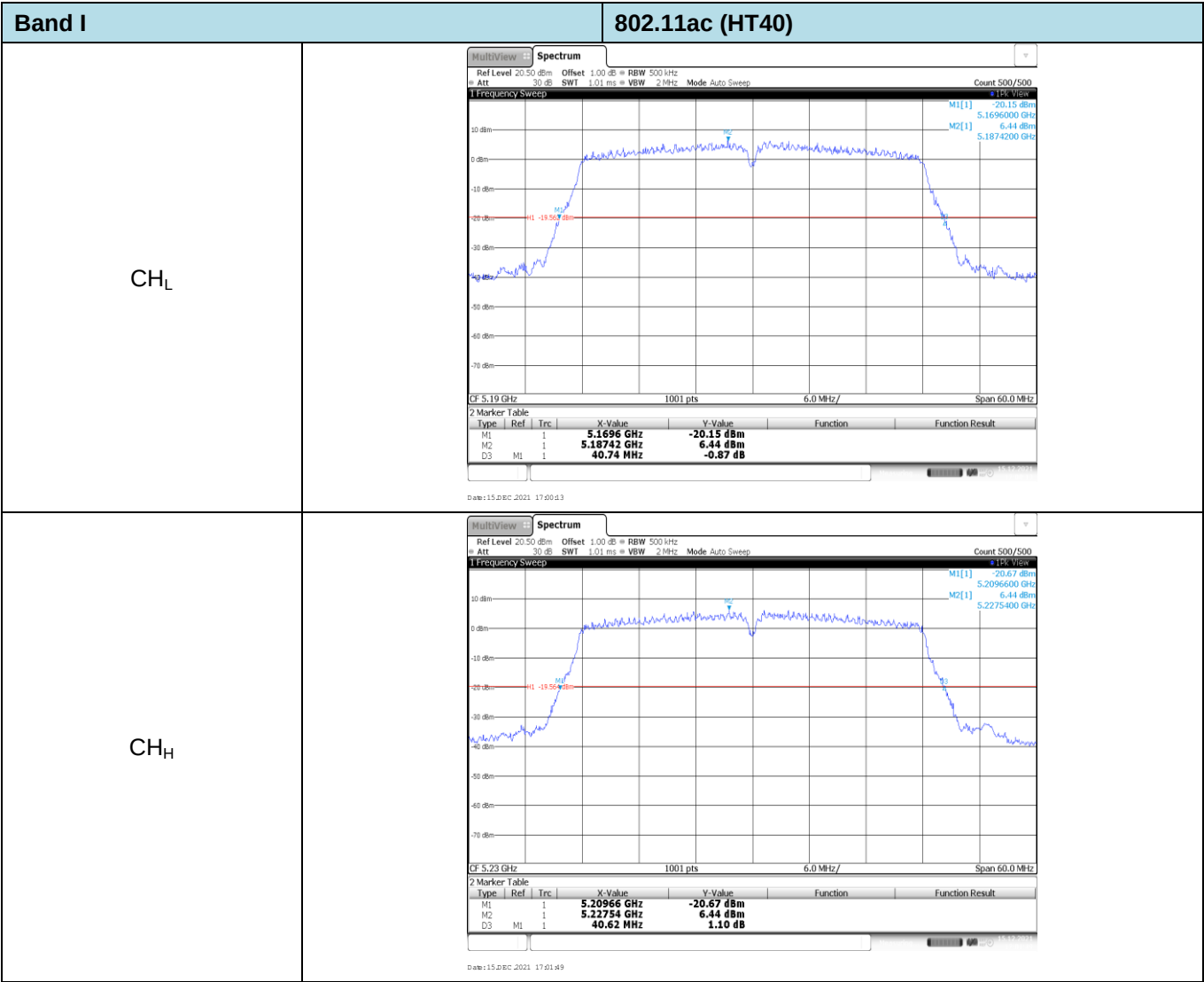
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	5.22983 GHz	-20.49 dBm		
M2	1	1	5.2406 GHz	6.30 dBm		
D3	M1	1	20.4 MHz	0.39 dB		

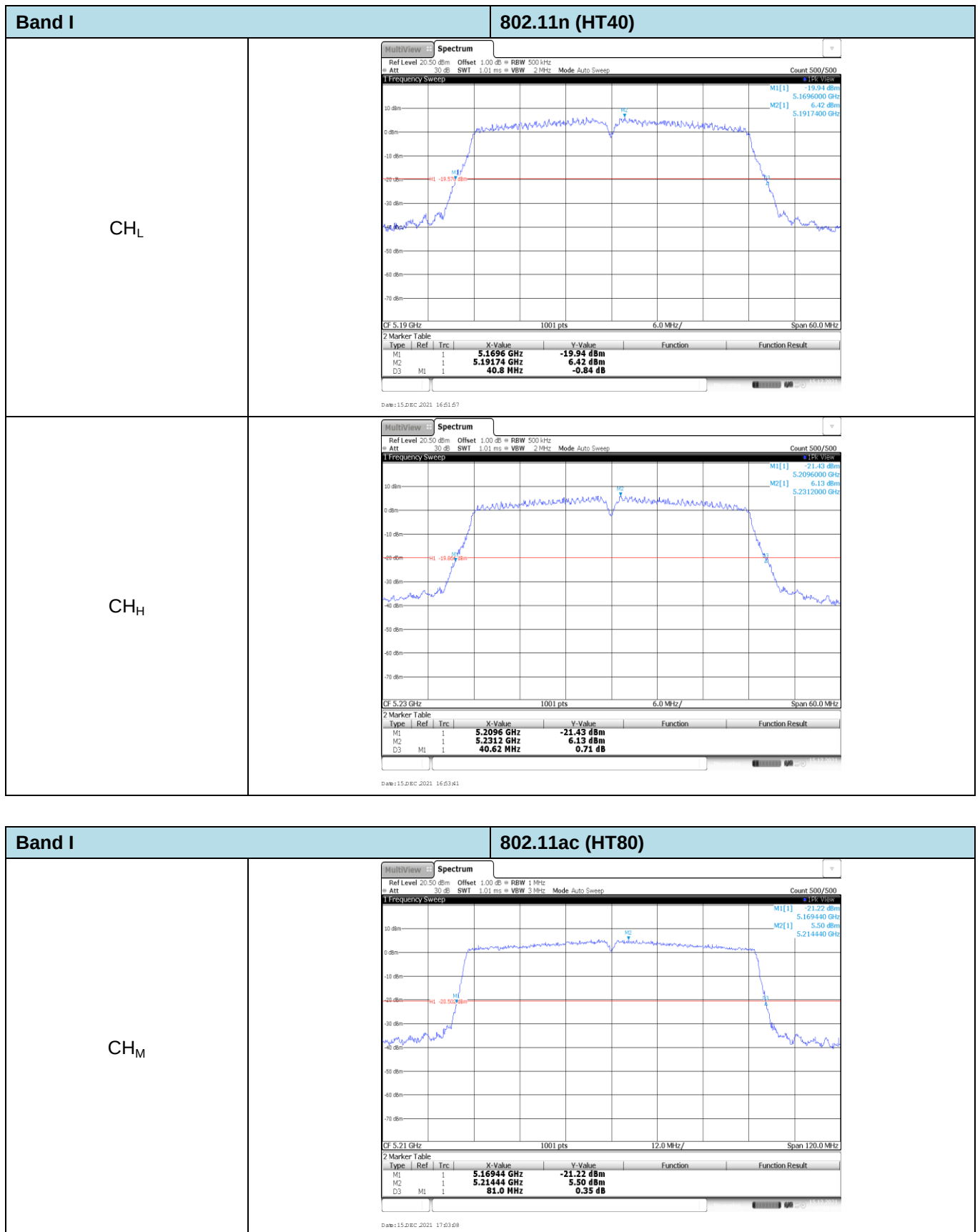
CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

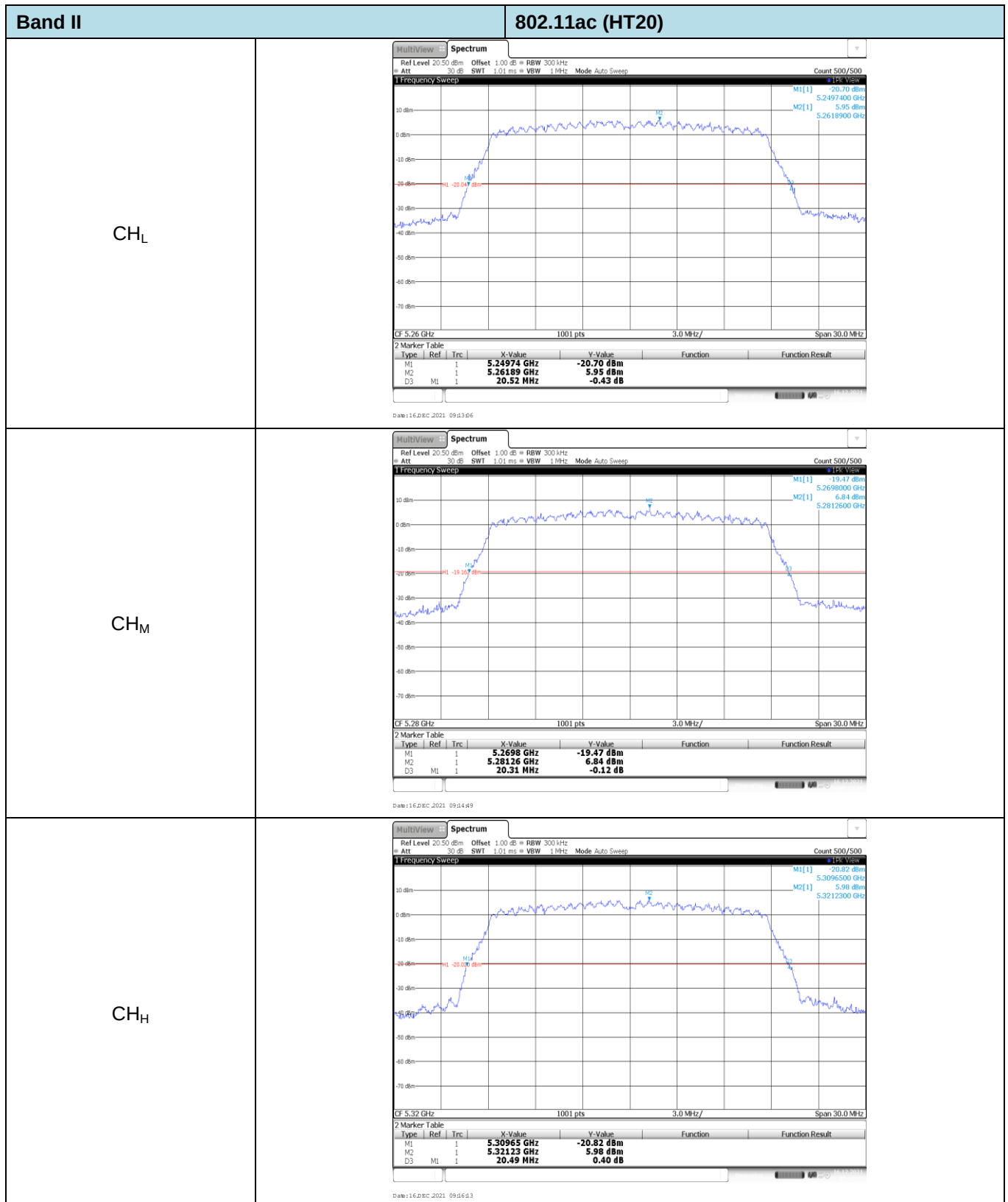
Date: 15 DEC 2021 16:58:55







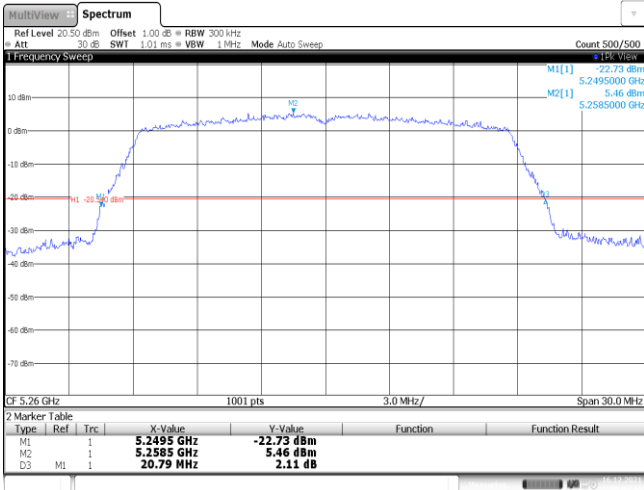




Band II

802.11n (HT20)

CH_L

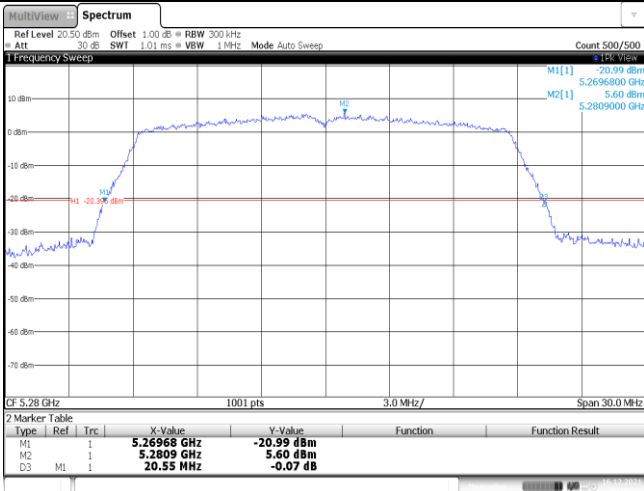


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.2495 GHz	-22.73 dBm		
M2	1		5.2585 GHz	5.46 dBm		
D3	M1	1	20.79 MHz	2.11 dB		

Date: 16 DEC 2021 09:04:16

CH_M

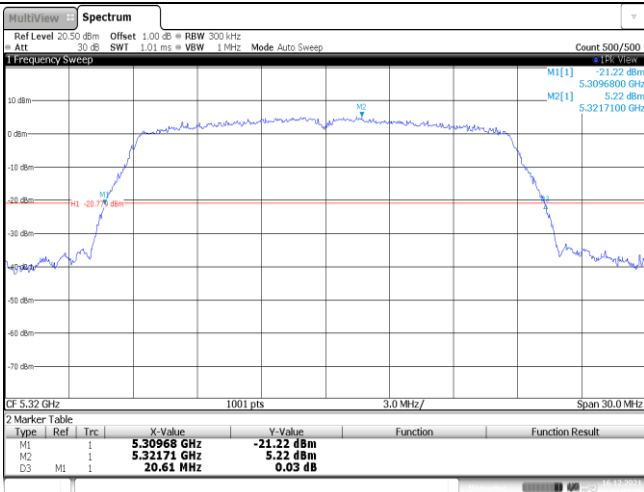


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.26968 GHz	-20.99 dBm		
M2	1		5.2809 GHz	5.60 dBm		
D3	M1	1	20.55 MHz	-0.07 dB		

Date: 16 DEC 2021 09:06:04

CH_H



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.30968 GHz	-21.22 dBm		
M2	1		5.32171 GHz	5.22 dBm		
D3	M1	1	20.61 MHz	0.03 dB		

Date: 16 DEC 2021 09:07:35

