

APPENDIX REPORT

Project No.	SHT2106125001EW	Radio Specification	WIFI 5G
Test sample No.	YPHT21061250005	Model No.	E2000
Start test date	2021-9-15	Finish date	2021-10-28
Temperature	24.7℃	Humidity	35%
Test Engineer	Xiaoqin Li	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	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 2	Antenna 3	Antenna 0	Antenna 1	Antenna 2	Antenna 3	Antenna 0	Antenna 1	Antenna 2	Antenna 3	Antenna 0	Antenna 1	Antenna 2	Antenna 3			
I	20	802.11ac	CH _L	9.19	9.57	9.78	8.52	86.51	86.51	86.80	86.51	0.63	0.63	0.61	0.63	9.82	10.20	10.39	9.15	15.94	30.00	Pass
			CH _M	6.64	8.34	6.67	7.08	86.51	86.76	86.51	86.51	0.63	0.62	0.63	0.63	7.27	8.96	7.30	7.71	13.89		
			CH _H	5.70	8.70	6.84	5.91	86.51	86.51	86.51	86.80	0.63	0.63	0.63	0.61	6.33	9.33	7.47	6.52	13.61		
		802.11n	CH _L	7.75	8.53	5.57	7.70	86.35	86.39	86.39	86.65	0.64	0.64	0.64	0.62	8.39	9.17	6.21	8.32	14.17	30.00	Pass
			CH _M	5.77	7.48	5.51	6.52	86.39	86.39	86.39	86.35	0.64	0.64	0.64	0.64	6.41	8.12	6.15	7.16	13.05		
			CH _H	4.77	7.75	7.07	4.93	86.39	86.35	86.35	86.39	0.64	0.64	0.64	0.64	5.41	8.39	7.71	5.57	12.99		
		802.11a	CH _L	14.45	14.75	15.47	13.98	96.02	96.02	96.02	96.02	0.18	0.18	0.18	0.18	14.63	14.93	15.65	14.16	-	30.00	Pass
			CH _M	12.25	14.00	12.38	12.94	96.02	96.02	96.02	96.11	0.18	0.18	0.18	0.17	12.43	14.18	12.56	13.11	-		
			CH _H	11.31	14.30	12.39	11.25	96.02	96.11	96.11	96.02	0.18	0.17	0.17	0.18	11.49	14.47	12.56	11.43	-		
	40	802.11ac	CH _L	8.37	9.12	8.96	7.02	78.90	78.90	78.66	78.66	1.03	1.03	1.04	1.04	9.40	10.15	10.00	8.06	15.50	30.00	Pass
			CH _H	5.94	8.29	5.47	6.21	78.71	78.66	78.71	78.66	1.04	1.04	1.04	1.04	6.98	9.33	6.51	7.25	13.68		
		802.11n	CH _L	8.03	8.83	5.86	8.57	78.59	78.35	78.54	78.35	1.05	1.06	1.05	1.06	9.08	9.89	6.91	9.63	15.04	30.00	Pass
			CH _H	5.41	7.98	6.99	6.24	78.35	78.35	78.35	78.35	1.06	1.06	1.06	1.06	6.47	9.04	8.05	7.30	13.84		
	80	802.11ac	CH _M	6.86	7.95	6.94	6.94	68.66	68.66	68.66	69.01	1.63	1.63	1.63	1.61	8.49	9.58	8.57	8.55	14.84	30.00	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			
IV	20	802.11ac	CH _L	11.73	12.10	92.20	92.20	0.35	0.35	12.08	12.45	15.31	30.00	Pass
			CH _M	11.91	11.10	92.19	92.20	0.35	0.35	12.26	11.45	14.93		
			CH _H	11.69	10.90	92.19	92.36	0.35	0.35	12.04	11.25	14.67		
		802.11n	CH _L	11.76	12.95	92.11	92.11	0.36	0.36	12.12	13.31	15.75	30.00	Pass
			CH _M	11.69	12.70	92.11	92.28	0.36	0.35	12.05	13.05	15.64		
			CH _H	11.22	12.77	92.11	92.11	0.36	0.36	11.58	13.13	15.42		
		802.11a	CH _L	13.87	13.44	96.02	96.11	0.18	0.17	14.05	13.61	-	30.00	Pass
			CH _M	13.56	12.84	96.02	96.02	0.18	0.18	13.74	13.02	-		
			CH _H	13.57	12.50	96.02	96.02	0.18	0.18	13.75	12.68	-		
	40	802.11ac	CH _L	11.71	11.09	86.22	86.22	0.64	0.64	12.35	11.73	15.07	30.00	Pass
			CH _H	10.69	11.75	86.22	86.22	0.64	0.64	11.33	12.39	14.90		
		802.11n	CH _L	10.78	12.25	86.07	86.09	0.65	0.65	11.43	12.90	15.22	30.00	Pass
			CH _H	11.90	11.89	86.09	85.94	0.65	0.66	12.55	12.55	15.61		
	80	802.11ac	CH _M	11.06	10.29	76.88	76.94	1.14	1.14	12.20	11.43	14.83	30.00	Pass

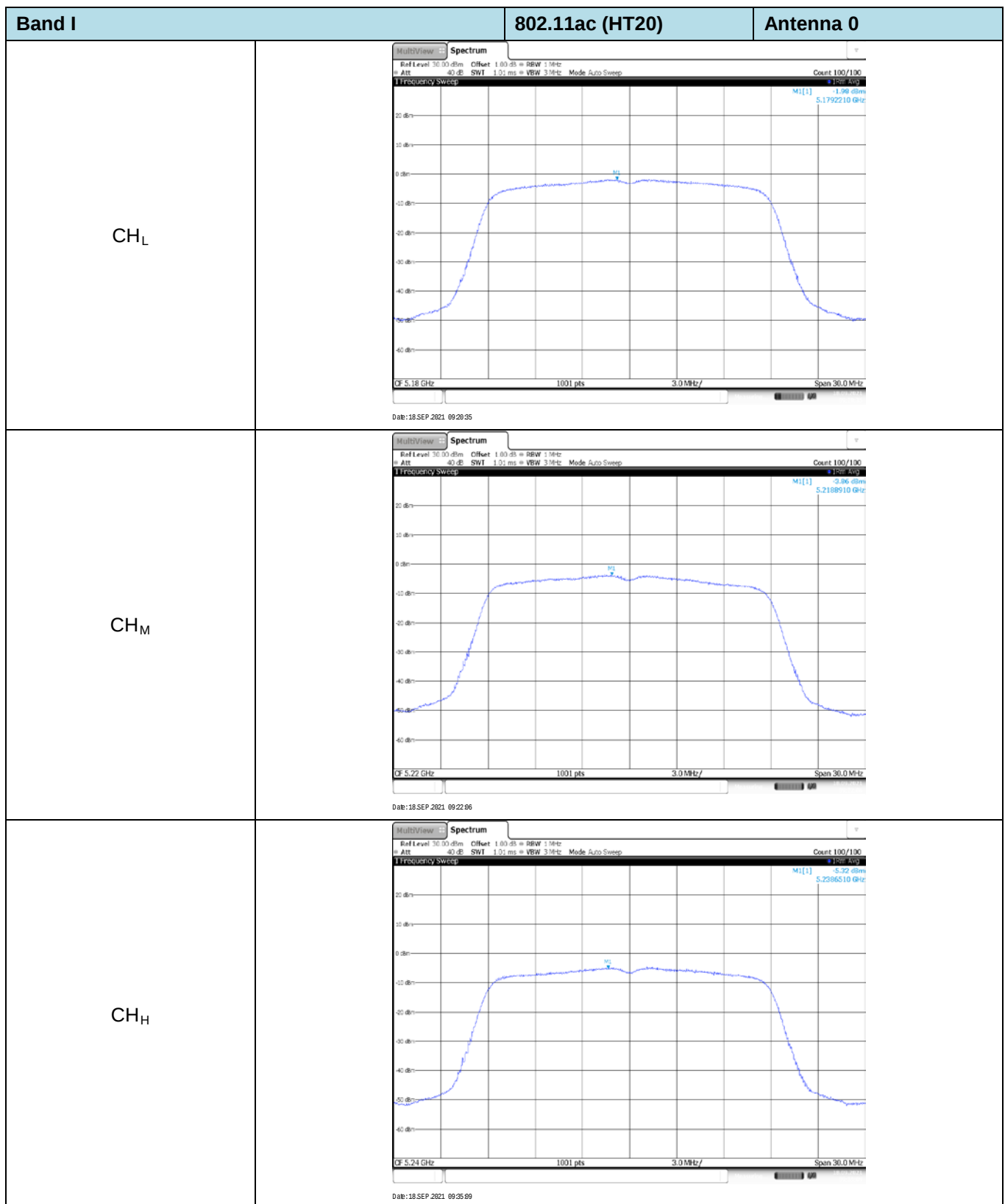
NOTE: duty cycle factor =10LOG(1/ duty cycle)

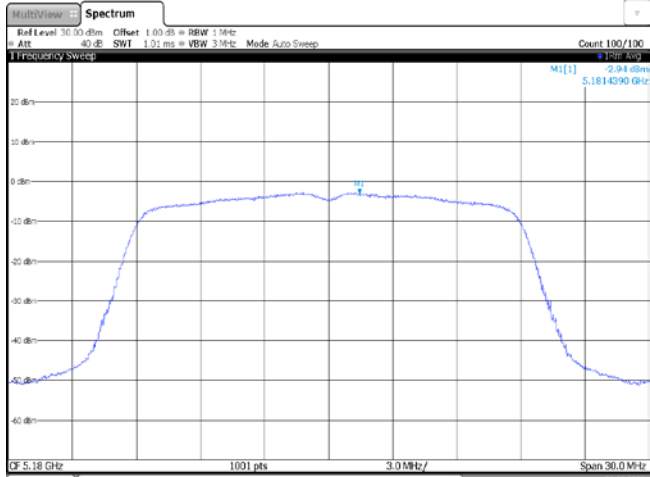
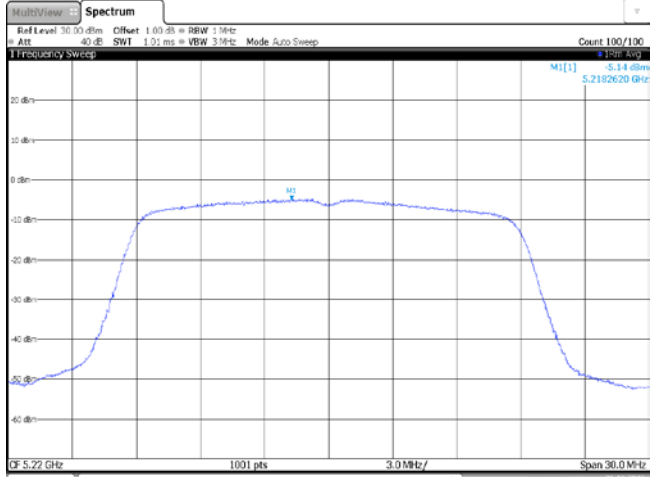
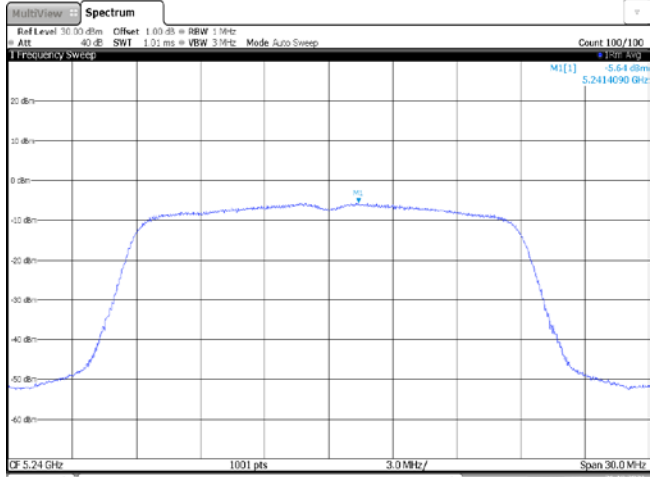
Appendix B: Maximum Power Spectral Density

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 2	Antenna 3	Antenna 0	Antenna 1	Antenna 2	Antenna 3	Antenna 0	Antenna 1	Antenna 2	Antenna 3	Antenna 0	Antenna 1	Antenna 2	Antenna 3			
I	20	802.11ac	CH _L	-1.98	-1.32	-0.78	-4.71	86.51	86.51	86.80	86.51	0.63	0.63	0.61	0.63	-1.35	-0.69	-0.17	-4.08	4.68	14.98	Pass
			CH _M	-3.86	-2.28	-4.27	-3.56	86.51	86.76	86.51	86.51	0.63	0.62	0.63	0.63	-3.23	-1.66	-3.64	-2.93	3.22		
			CH _H	-5.32	-2.17	-3.97	-5.07	86.51	86.51	86.51	86.80	0.63	0.63	0.63	0.61	-4.69	-1.54	-3.34	-4.46	2.70		
		802.11n	CH _L	-2.94	-2.15	-5.34	-3.18	86.35	86.39	86.39	86.65	0.64	0.64	0.64	0.62	-2.30	-1.51	-4.70	-2.56	3.40	14.98	Pass
			CH _M	-5.14	-3.38	-5.37	-4.33	86.39	86.39	86.39	86.35	0.64	0.64	0.64	0.64	-4.50	-2.74	-4.73	-3.69	2.18		
			CH _H	-5.64	-3.42	-3.67	-5.65	86.39	86.35	86.35	86.39	0.64	0.64	0.64	0.64	-5.00	-2.78	-3.03	-5.01	2.19		
		802.11a	CH _L	3.40	4.28	4.98	3.74	96.02	96.02	96.02	96.02	0.18	0.18	0.18	0.18	3.58	4.46	5.16	3.92	10.34	14.98	Pass
			CH _M	1.46	3.40	1.79	2.30	96.02	96.02	96.02	96.11	0.18	0.18	0.18	0.17	1.64	3.58	1.97	2.47	8.50		
			CH _H	0.57	3.61	1.91	0.77	96.02	96.11	96.11	96.02	0.18	0.17	0.17	0.18	0.75	3.78	2.08	0.95	8.09		
	40	802.11ac	CH _L	-4.94	-4.00	-4.47	-6.26	78.90	78.90	78.66	78.66	1.03	1.03	1.04	1.04	-3.91	-2.97	-3.43	-5.22	2.22	14.98	Pass
			CH _H	-7.93	-5.62	-8.06	-7.0	78.71	78.66	78.71	78.66	1.04	1.04	1.04	1.04	-6.89	-4.58	-7.02	-5.96	0.02		
		802.11n	CH _L	-5.19	-5.03	-8.00	-4.31	78.59	78.35	78.54	78.35	1.05	1.06	1.05	1.06	-4.14	-3.97	-6.95	-3.25	1.65	14.98	Pass
			CH _H	-8.86	-5.55	-6.42	-7.49	78.35	78.35	78.35	78.35	1.06	1.06	1.06	1.06	-7.80	-4.49	-5.36	-6.43	0.17		
	80	802.11ac	CH _M	-10.11	-8.84	-9.98	-7.94	68.66	68.66	68.66	69.01	1.63	1.63	1.63	1.61	-8.48	-7.21	-8.35	-6.33	-1.48	14.98	Pass

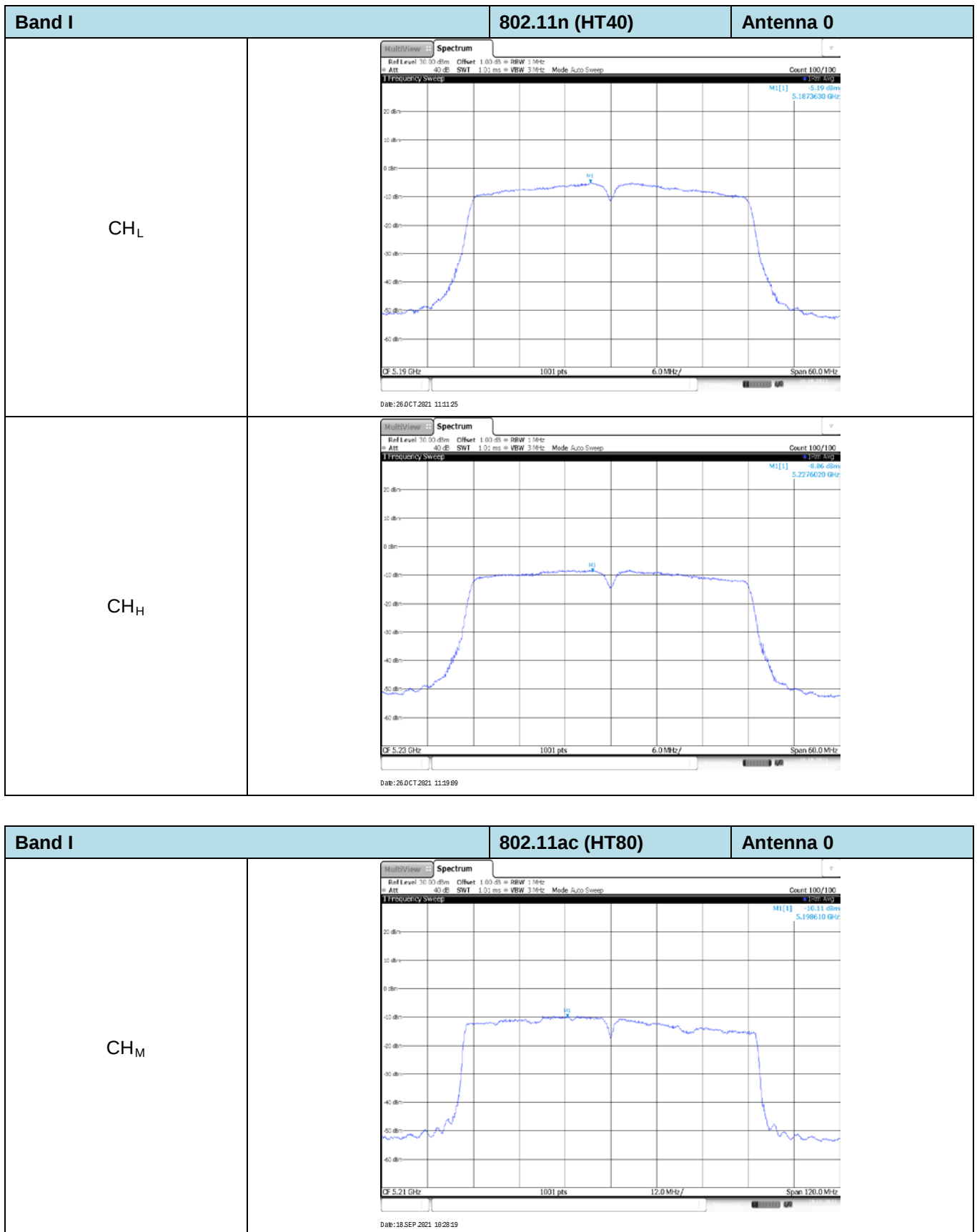
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)		Duty cycle (%)		Duty cycle factor (dB)		Power Spectral Density (dBm/500kHz)		Total PSD (dBm/MHz)	Limit (dBm/500KHz)	Result
				Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1			
IV	20	802.11ac	CH _L	-1.78	-1.56	92.20	92.20	0.35	0.35	-1.43	-1.21	1.69	30.00	Pass
			CH _M	-2.20	-2.11	92.19	92.20	0.35	0.35	-1.85	-1.76	1.21		
			CH _H	-1.86	-2.84	92.19	92.36	0.35	0.35	-1.51	-2.49	1.04		
		802.11n	CH _L	-1.45	-0.94	92.11	92.11	0.36	0.36	-1.09	-0.58	2.18	30.00	Pass
			CH _M	-1.96	-0.96	92.11	92.28	0.36	0.35	-1.60	-0.61	1.93		
			CH _H	-2.59	-1.08	92.11	92.11	0.36	0.36	-2.23	-0.72	1.60		
		802.11a	CH _L	0.34	0.55	96.02	96.11	0.18	0.17	0.52	0.72	-	30.00	Pass
			CH _M	0.00	-1.76	96.02	96.02	0.18	0.18	0.18	-1.58	-		
			CH _H	0.16	-0.98	96.02	96.02	0.18	0.18	0.34	-0.80	-		
	40	802.11ac	CH _L	-5.34	-5.24	86.22	86.22	0.64	0.64	-4.70	-4.60	-1.64	30.00	Pass
			CH _H	-5.91	-5.06	86.22	86.22	0.64	0.64	-5.27	-4.42	-1.81		
		802.11n	CH _L	-6.31	-4.38	86.07	86.09	0.65	0.65	-5.66	-3.73	-1.58	30.00	Pass
			CH _H	-4.62	-4.63	86.09	85.94	0.65	0.66	-3.97	-3.97	-0.96		
	80	802.11ac	CH _M	-9.50	-8.91	76.88	76.94	1.14	1.14	-8.36	-7.77	-5.04	30.00	Pass

Test plot as follows:

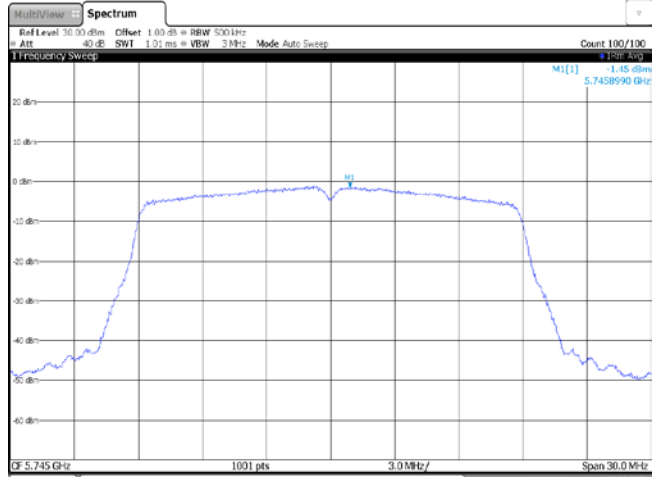
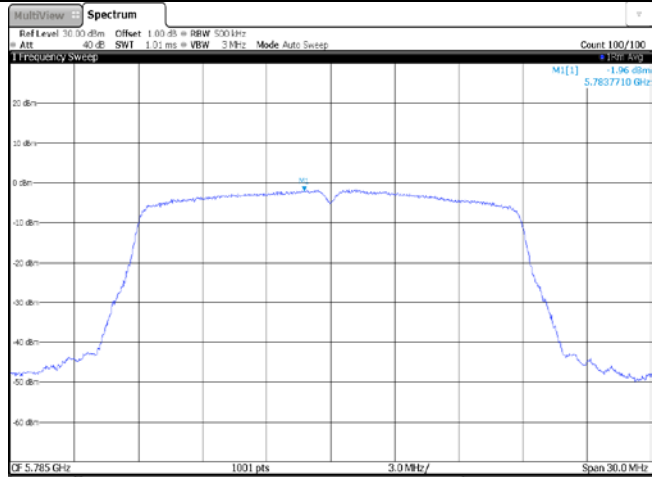
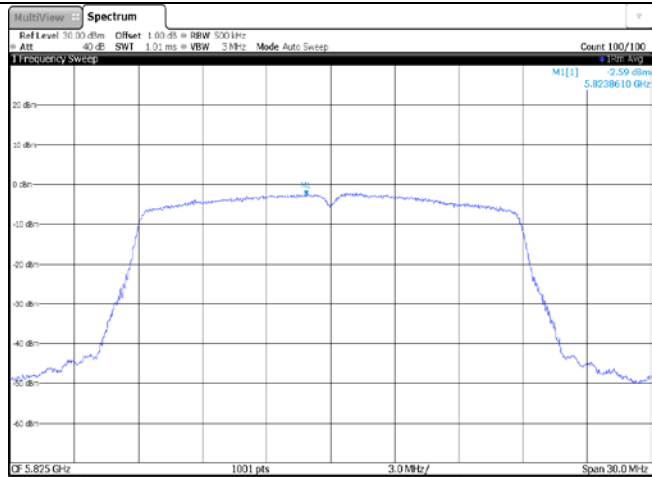


Band I	802.11n (HT20)	Antenna 0
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -2.94 dBm 5.1814390 GHz  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:36:11	
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -5.14 dBm 5.2182620 GHz  CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:37:39	
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -5.64 dBm 5.2414090 GHz  CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:38:55	

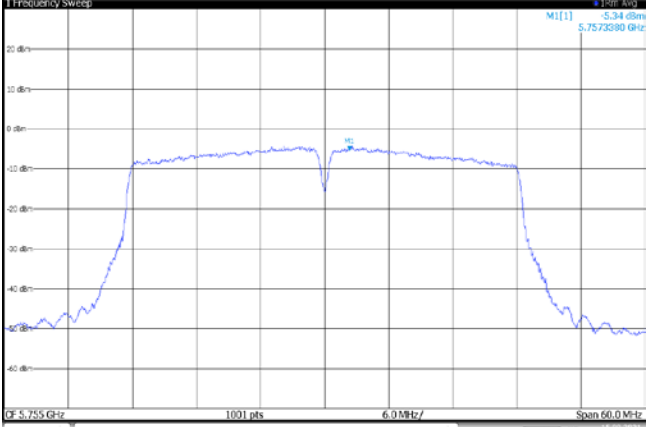
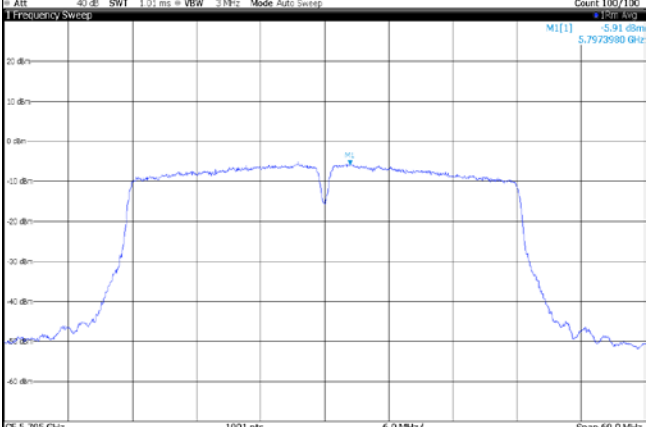
Band I		802.11a	Antenna 0
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 Hz Mode Auto Sweep Count 100/100 1/2RF Avg Frequency Sweep M1[1] 3.40 dBm 5.1818580 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:01:21		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 Hz Mode Auto Sweep Count 100/100 1/2RF Avg Frequency Sweep M1[1] 1.46 dBm 5.2212290 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:02:49		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 Hz Mode Auto Sweep Count 100/100 1/2RF Avg Frequency Sweep M1[1] 6.57 dBm 5.2394720 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:03:27		

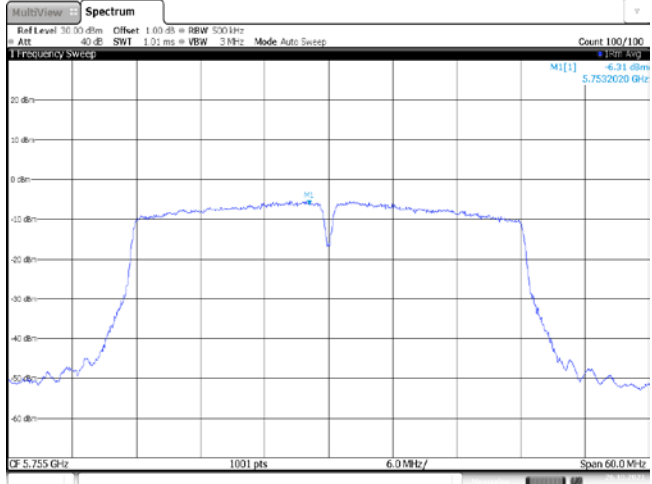
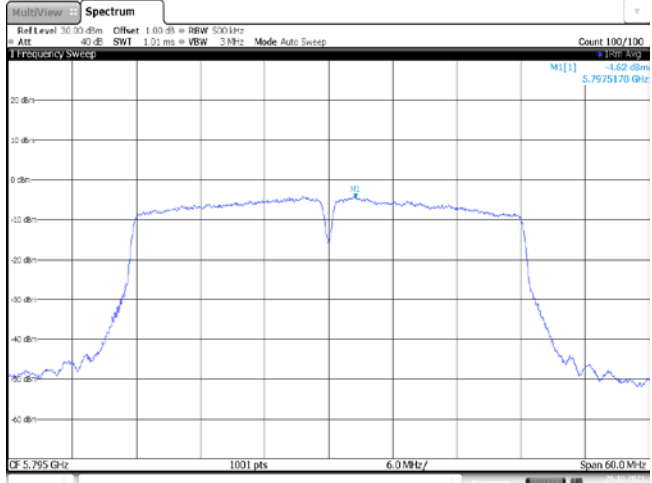
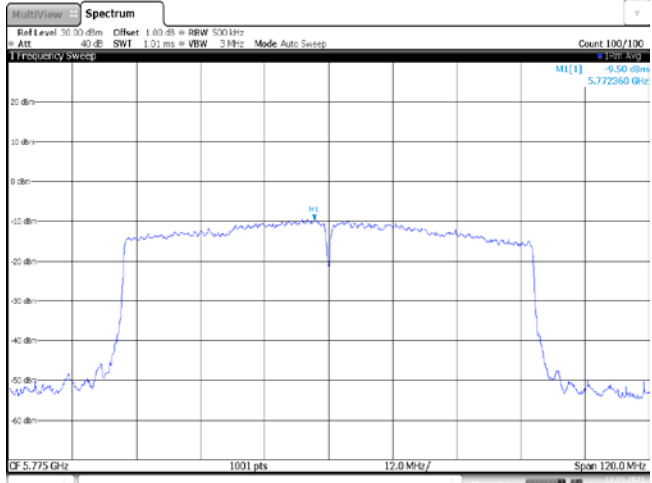


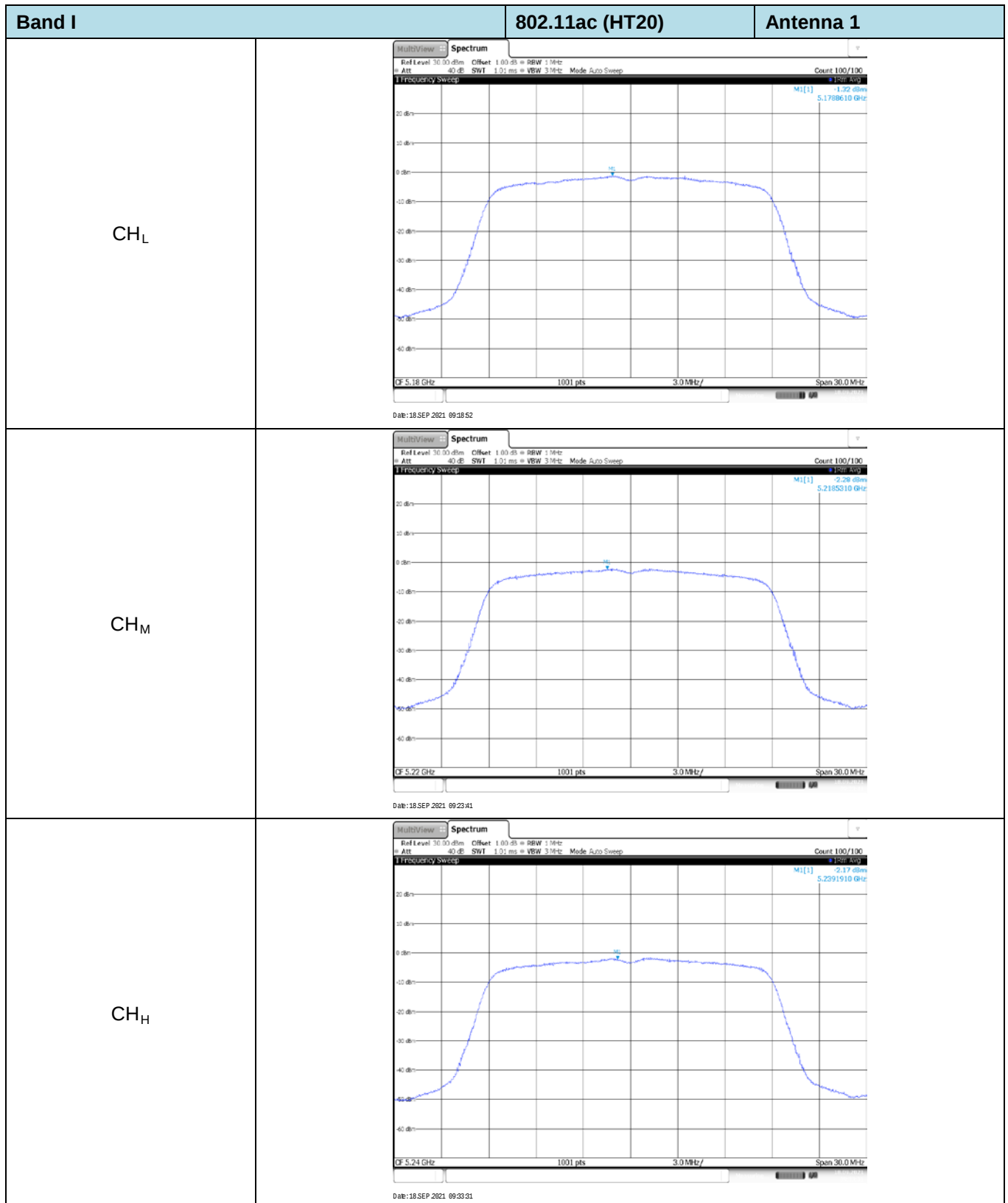
Band IV	802.11ac (HT20)	Antenna 0
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40.0 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Frequency Span Count 100/100 1.92 dBm M[1] -1.28 dBm 5.7443110 GHz QF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 15:32:26	
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40.0 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Frequency Span Count 100/100 1.92 dBm M[1] -2.20 dBm 5.7658990 GHz QF 5.765 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 16:51:37	
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40.0 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Frequency Span Count 100/100 1.92 dBm M[1] -1.96 dBm 5.8239510 GHz QF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 16:55:47	

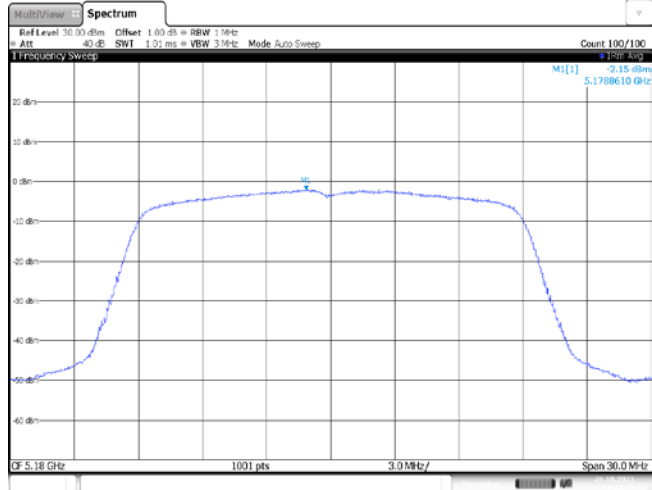
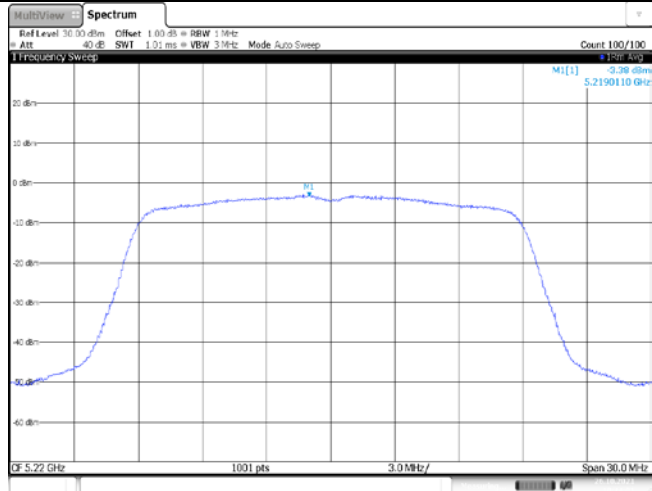
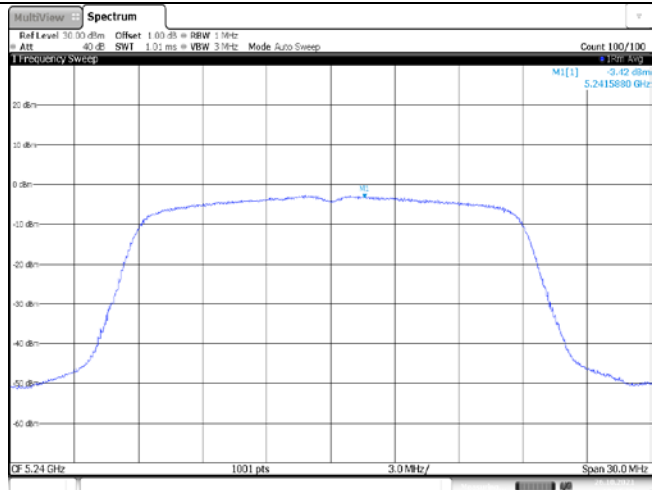
Band IV	802.11n (HT20)	Antenna 0
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -1.45 dBm 5.7458990 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz  Date: 26.OCT.2021 18:53:38	
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -1.96 dBm 5.7837710 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz  Date: 26.OCT.2021 18:55:09	
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -2.59 dBm 5.8238610 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz  Date: 26.OCT.2021 18:59:53	

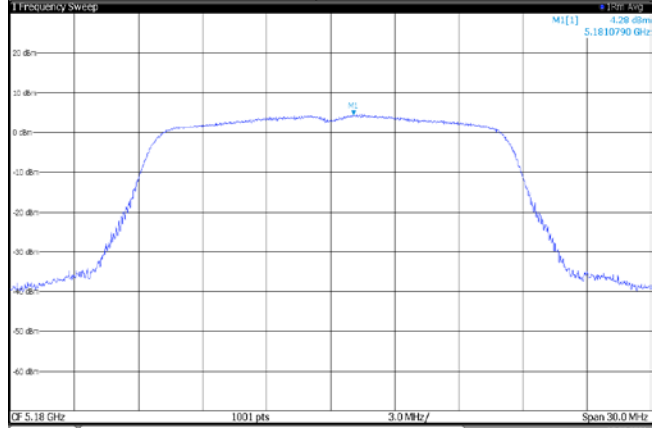
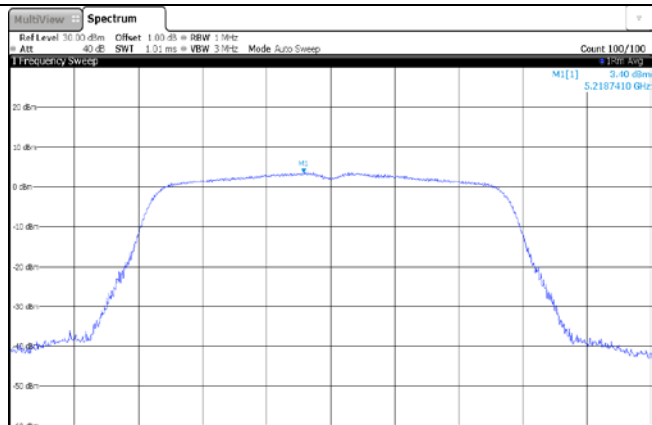
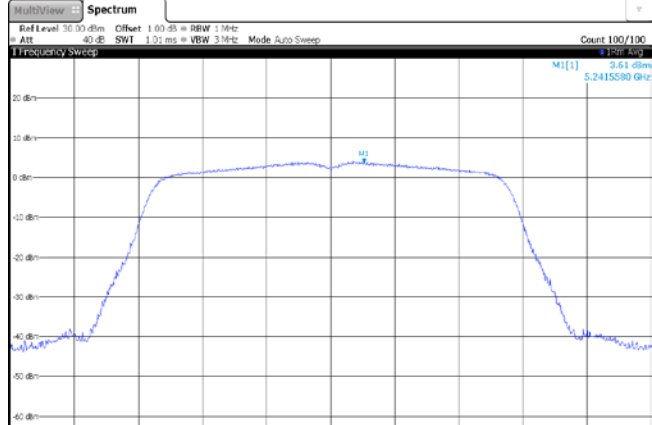
Band IV	802.11a	Antenna 0
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40.0 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] 6.34 dBm 5.749510 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <	

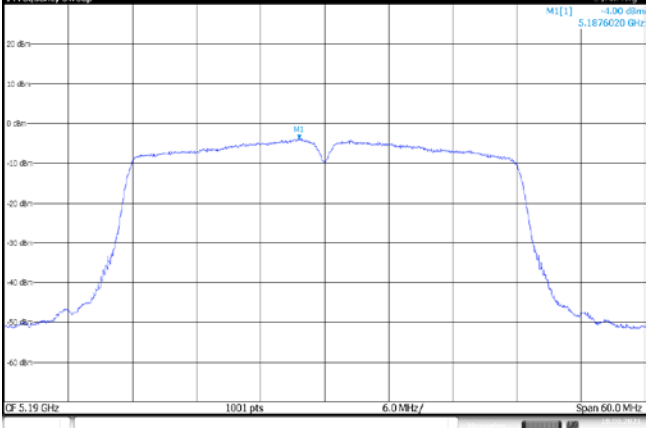
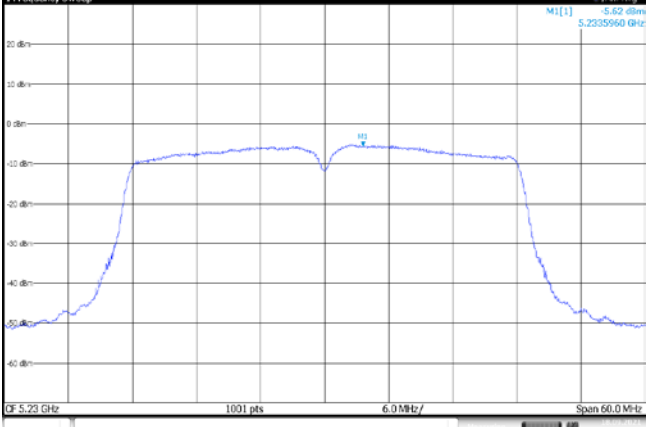
Band IV		802.11ac (HT40)	Antenna 0
CH _L	MultiView Spectrum Ref Level 30.00 dBm Att 40 dB Offset 1.00 dB RBW 500 kHz SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Plot Avg 1 Frequency Sweep MU[1] -5.34 dBm 5.7523980 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm  CF 5.755 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 15 SEP 2021 17:81:82		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Att 40 dB Offset 1.00 dB RBW 500 kHz SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Plot Avg 1 Frequency Sweep MU[1] -5.91 dBm 5.7523980 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm  CF 5.755 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 15 SEP 2021 17:84:26		

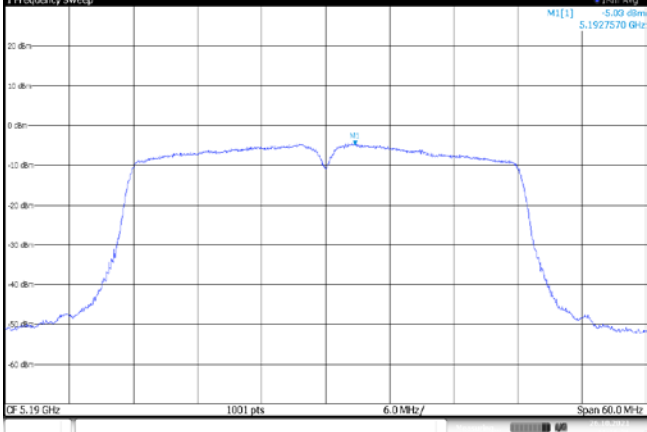
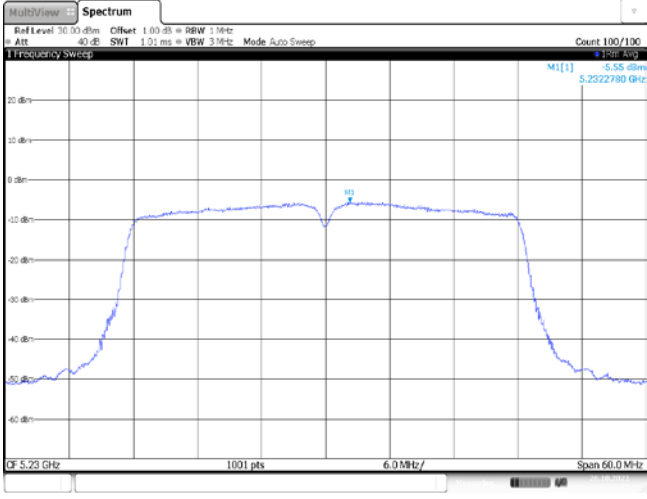
Band IV		802.11n (HT40)	Antenna 0
CH _L	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SW 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -4.31 dBm 5.7532020 GHz CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 18:17:11		
CH _H	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SW 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -4.62 dBm 5.7525170 GHz CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 18:28:48		
Band IV		802.11ac (HT80)	Antenna 0
CH _M	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SW 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -9.56 dBm 5.7722560 GHz CF 5.775 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 17.SEP.2021 14:49:55		

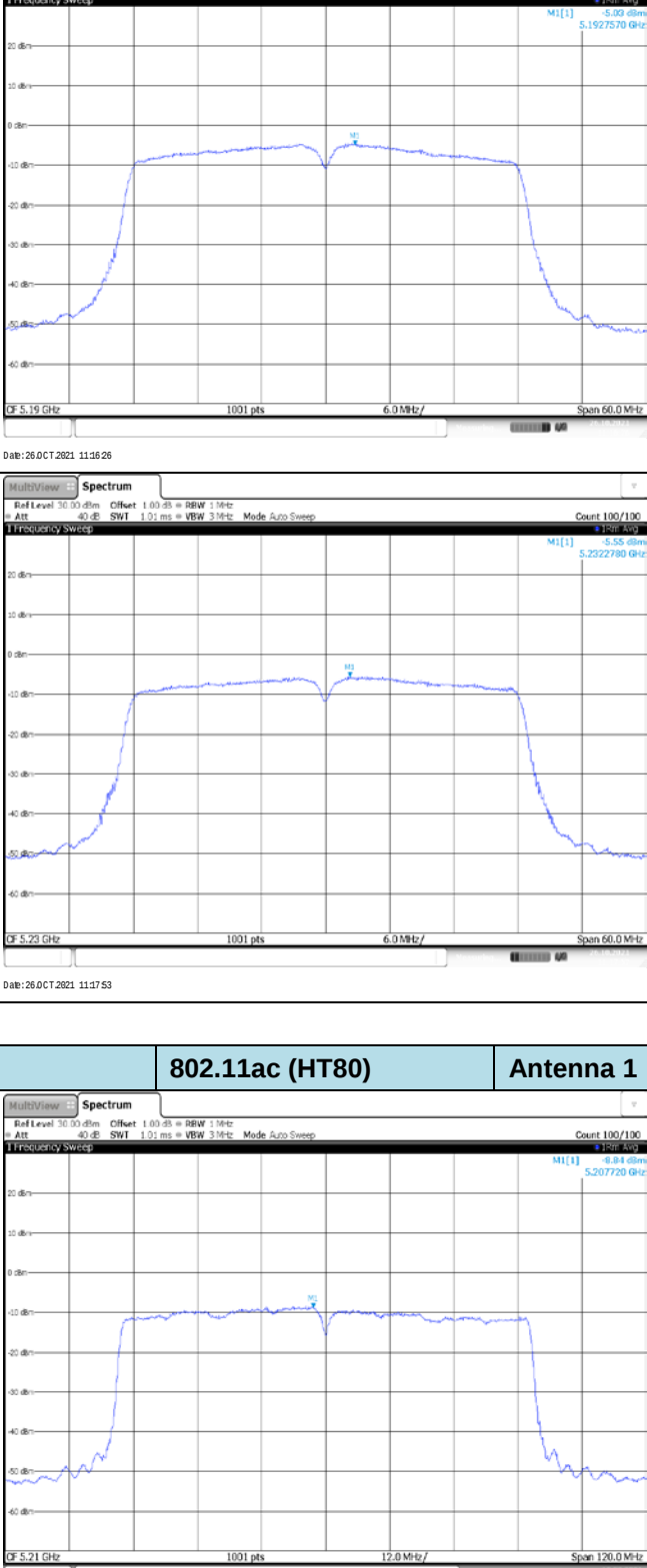


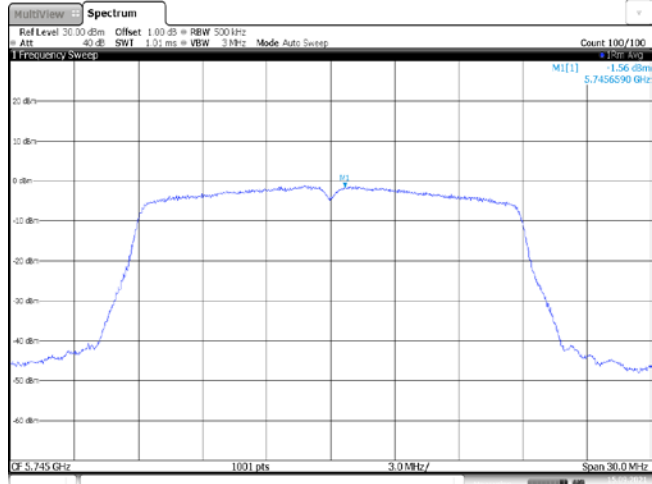
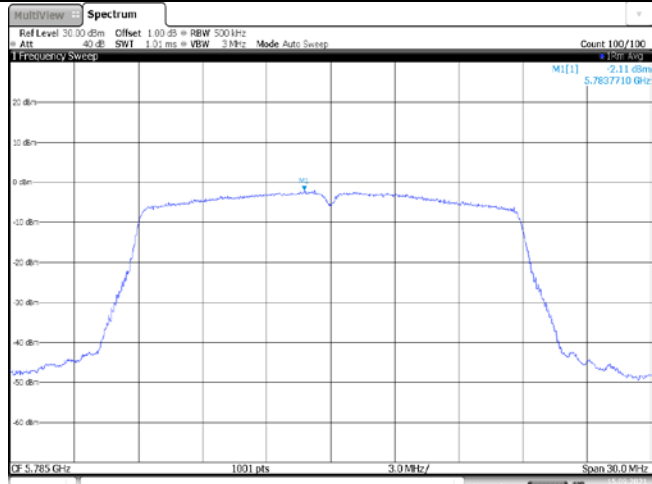
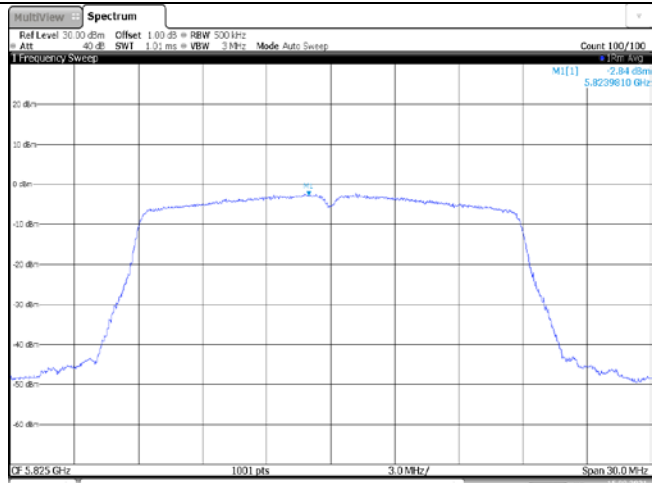
Band I		802.11n (HT20)	Antenna 1
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -2.15 dBm 5.1788610 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz  Date: 26.OCT.2021 18:42:19		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -3.38 dBm 5.2190110 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz  Date: 26.OCT.2021 18:44:01		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -3.42 dBm 5.2415890 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz  Date: 26.OCT.2021 18:45:28		

Band I		802.11a	Antenna 1
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att -40.0 dB SWT 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 100.00% Frequency Sweep M1 [1] -4.28 dBm 5.1810790 GHz  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 08:56:09		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att -40.0 dB SWT 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 100.00% Frequency Sweep M1 [1] -3.40 dBm 5.2187410 GHz  CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 08:56:48		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att -40.0 dB SWT 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 100.00% Frequency Sweep M1 [1] -3.61 dBm 5.2415580 GHz  CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 08:57:55		

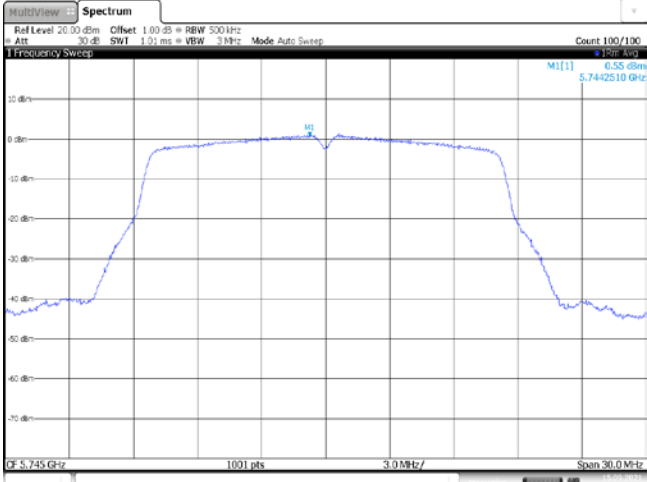
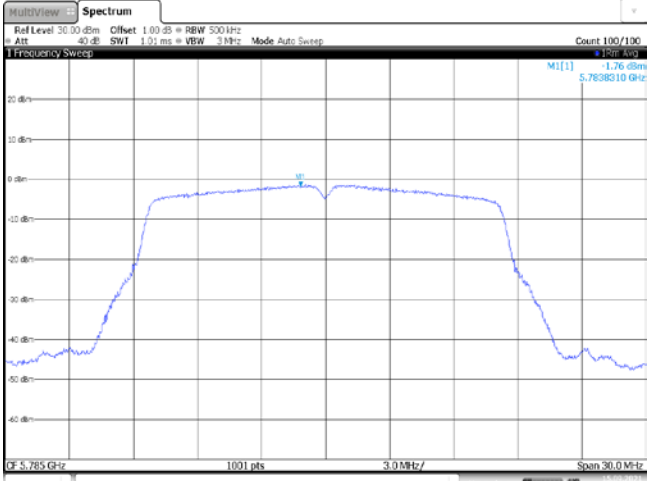
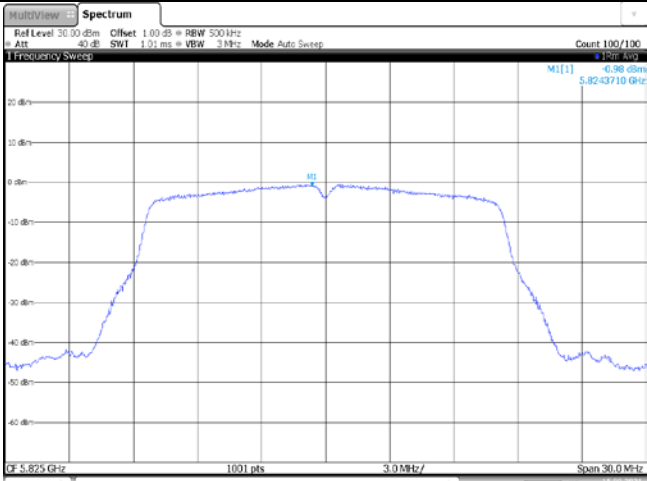
Band I		802.11ac (HT40)	Antenna 1
CH _L	MultiView Spectrum Ref Level 30.00 dBm Att 40 dB Offset 1.00 dB RBW 1 MHz 1 Frequency Sweep SWT 1.01 ms VBW 3.16 Hz Mode Auto Sweep Count 100/100 1 dB Avg MU[1] -4.00 dBm 5.1876020 GHz  CF 5.19 GHz1001 pts6.0 MHz/Span 60.0 MHz Date:18.SEP.2021 09:45:58		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Att 40 dB Offset 1.00 dB RBW 1 MHz 1 Frequency Sweep SWT 1.01 ms VBW 3.16 Hz Mode Auto Sweep Count 100/100 1 dB Avg MU[1] -5.62 dBm 5.2335960 GHz  CF 5.23 GHz1001 pts6.0 MHz/Span 60.0 MHz Date:18.SEP.2021 09:48:32		

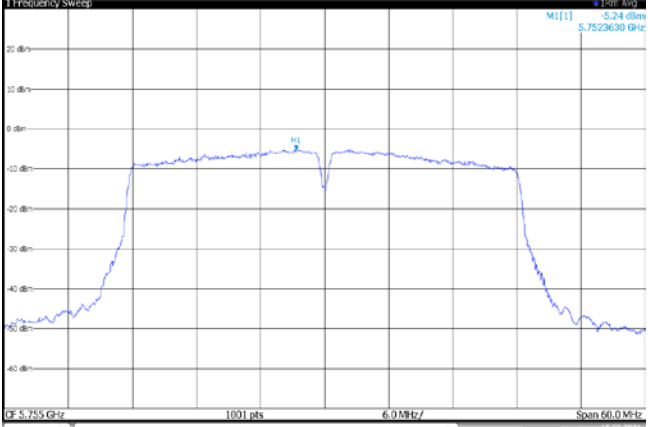
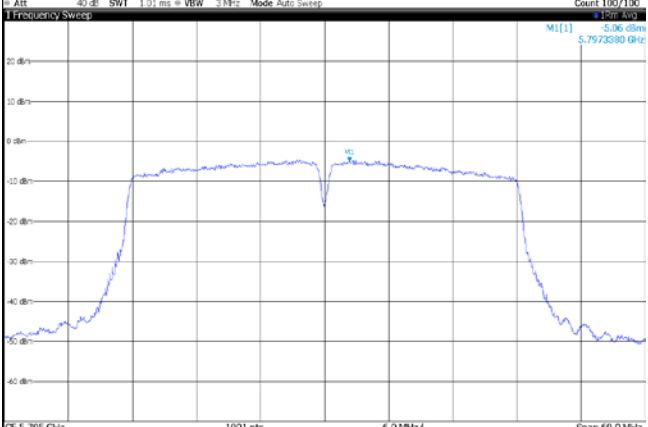
Band I		802.11n (HT40)	Antenna 1
CH _L	MultiViewSpectrum Ref Level: 30.00 dBm Offset: 1.00 dB = RBW: 1 MHz = Att: 40 dB SWI: 1.01 ms = VBW: 3 MHz Mode: Auto Sweep 1 Frequency Sweep Count 100/100 M1[1] -5.00 dBm 5.1927570 GHz  CF: 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 11:18:26		
CH _H	MultiViewSpectrum Ref Level: 30.00 dBm Offset: 1.00 dB = RBW: 1 MHz = Att: 40 dB SWI: 1.01 ms = VBW: 3 MHz Mode: Auto Sweep 1 Frequency Sweep Count 100/100 M1[1] -5.55 dBm 5.2322780 GHz  CF: 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 11:17:53		

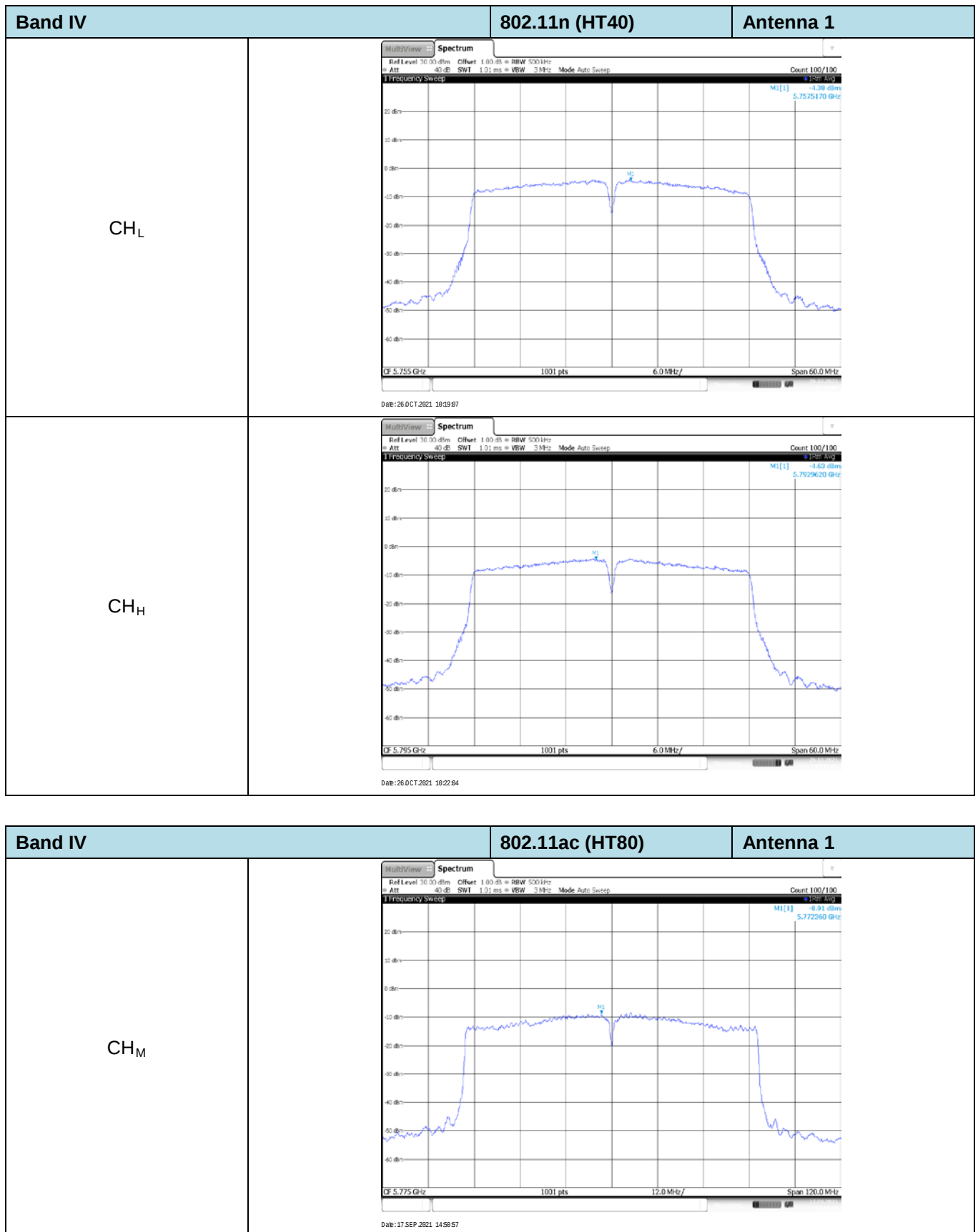
Band I		802.11ac (HT80)	Antenna 1
CH _M	MultiViewSpectrum Ref Level: 30.00 dBm Offset: 1.00 dB = RBW: 1 MHz = Att: 40 dB SWI: 1.01 ms = VBW: 3 MHz Mode: Auto Sweep 1 Frequency Sweep Count 100/100 M1[1] -6.84 dBm 5.207720 GHz  CF: 5.21 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 18.SEP.2021 19:27:23		

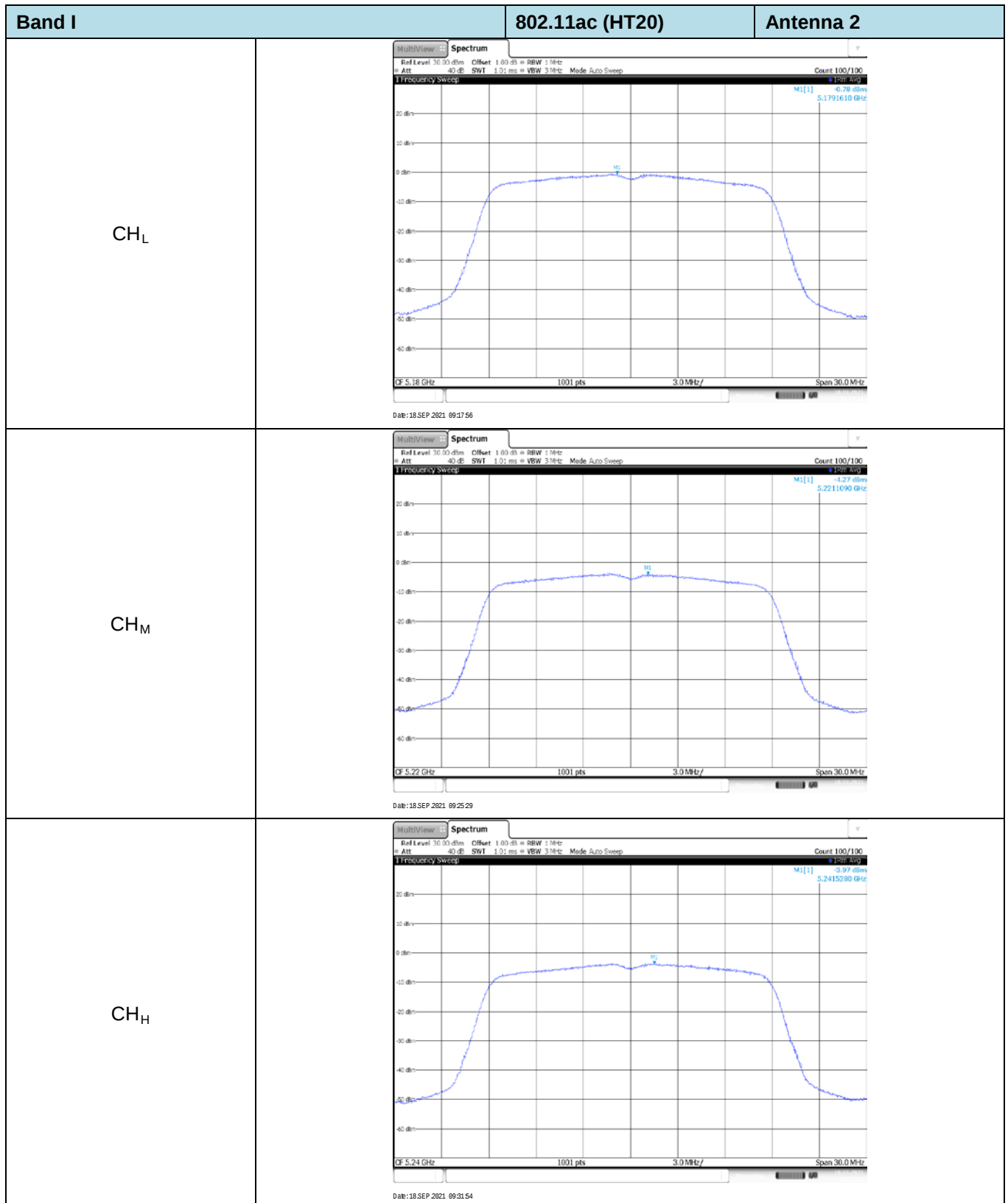
Band IV	802.11ac (HT20)	Antenna 1
CH _L	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 42 dB SWI 1.01 ms = VBW 3 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -1.56 dBm 5.7456590 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 16:49:87	
CH _M	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 42 dB SWI 1.01 ms = VBW 3 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -2.11 dBm 5.7837710 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 16:53:11	
CH _H	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 42 dB SWI 1.01 ms = VBW 3 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -2.84 dBm 5.8239810 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 16:57:42	

Band IV	802.11n (HT20)	Antenna 1
CH _L	MultiViewSpectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU(1) -6.94 dBm 5.7443710 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26 OCT 2021 18:82:44	
CH _M	MultiViewSpectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU(1) -6.96 dBm 5.7637410 GHz CF 5.765 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26 OCT 2021 18:86:42	
CH _H	MultiViewSpectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWF 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU(1) -1.08 dBm 5.8238310 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26 OCT 2021 18:18:28	

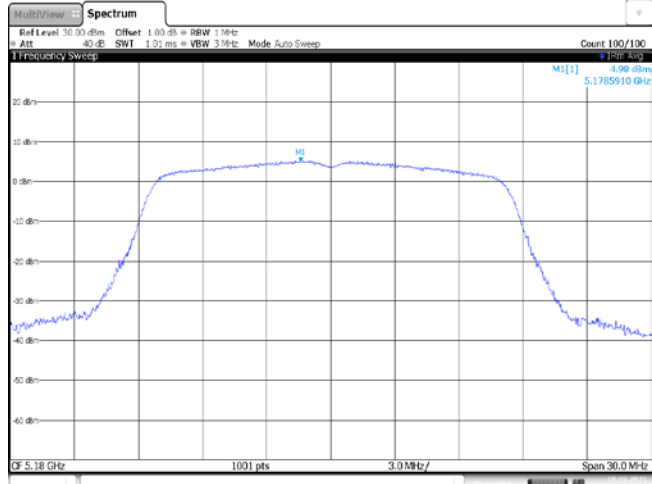
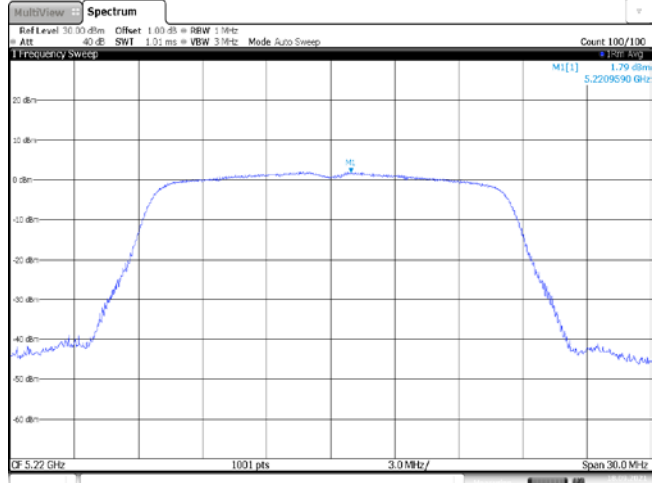
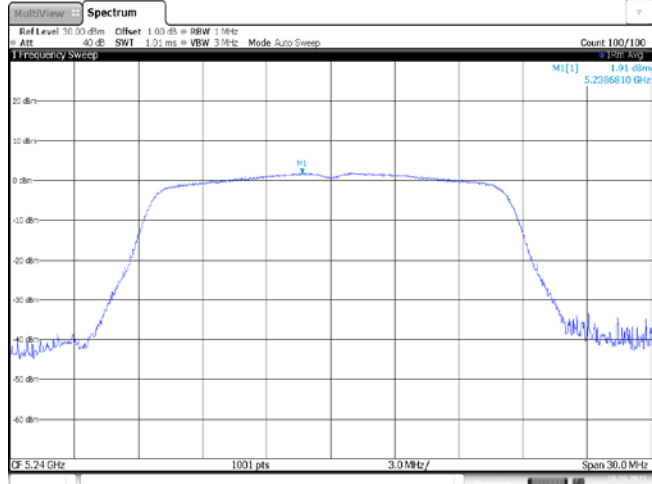
Band IV	802.11a	Antenna 1
CH _L	 Ref Level 20.00 dBm Offset 1.00 dB = RBW 500 kHz Att 32 dB SWI 1.01 ms = VBW 3 kHz Mode Auto Sweep Count 100/100 MU[1] 6.55 dBm 5.7442510 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 15:08:13	
CH _M	 Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 40 dB SWI 1.01 ms = VBW 3 kHz Mode Auto Sweep Count 100/100 MU[1] -1.76 dBm 5.7838310 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 15:06:03	
CH _H	 Ref Level 30.00 dBm Offset 1.00 dB = RBW 500 kHz Att 42 dB SWI 1.01 ms = VBW 3 kHz Mode Auto Sweep Count 100/100 MU[1] -6.98 dBm 5.8243710 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 SEP 2021 15:21:37	

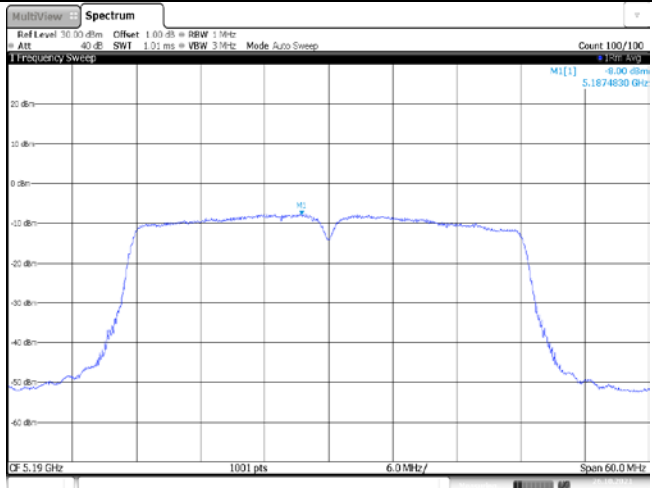
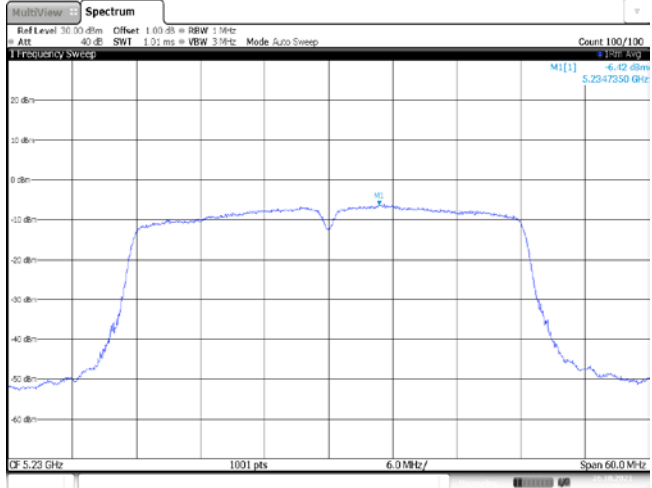
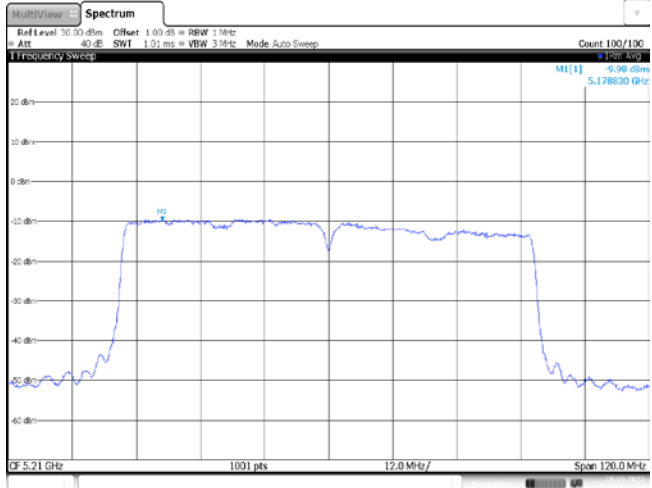
Band IV		802.11ac (HT40)	Antenna 1
CH _L	MultiView Spectrum Ref Level 30.00 dBm Att 40.00 dB Offset 1.00 dB RBW 500 kHz SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Plot Avg 1 Frequency Sweep MU[1] -5.24 dBm 5.7523630 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:15 SEP 2021 17:02:29		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Att 40.00 dB Offset 1.00 dB RBW 500 kHz SWI 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Plot Avg 1 Frequency Sweep MU[1] -5.06 dBm 5.7523630 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date:15 SEP 2021 17:34:04		





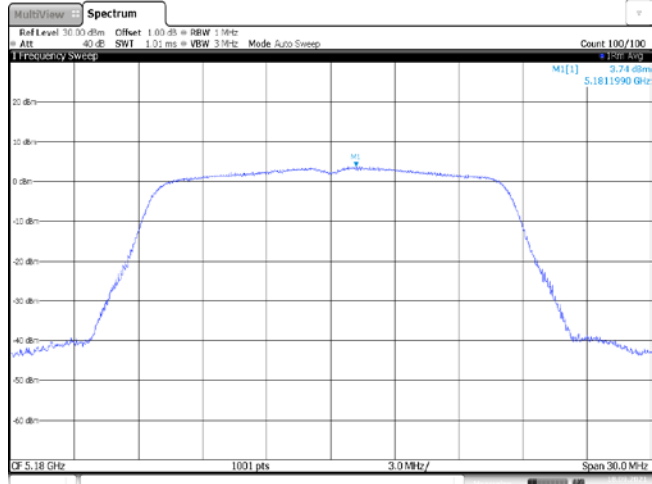
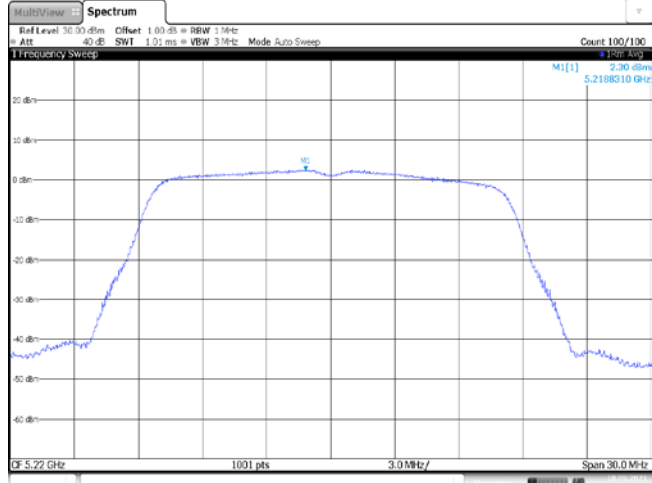
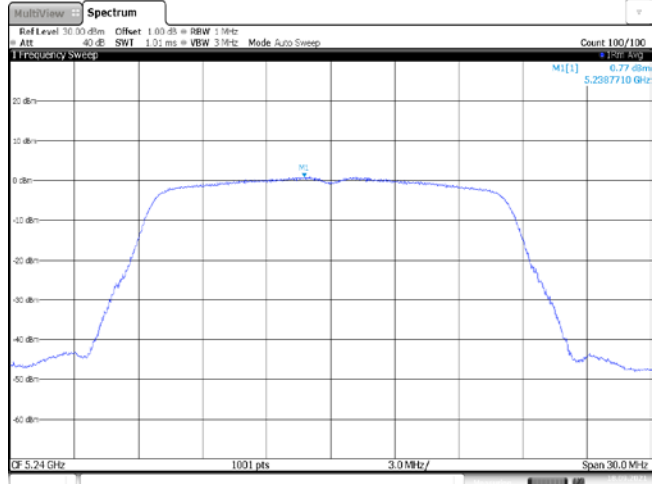
Band I		802.11n (HT20)	Antenna 2
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 1 MHz Att 40 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Frequency Sweep Count 100/100 1/2RF Avg Mu[1] -5.34 dBm 5.1790110 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:48:31		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 1 MHz Att 40 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Frequency Sweep Count 100/100 1/2RF Avg Mu[1] -5.37 dBm 5.2213790 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:52:48		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 1 MHz Att 40 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Frequency Sweep Count 100/100 1/2RF Avg Mu[1] -5.67 dBm 5.2414390 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:54:82		

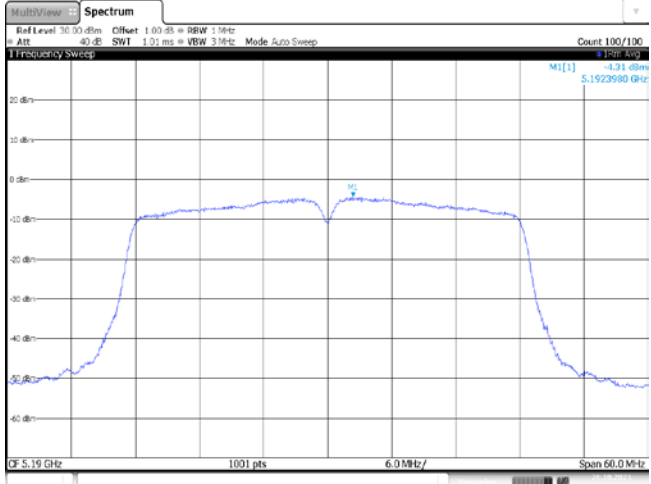
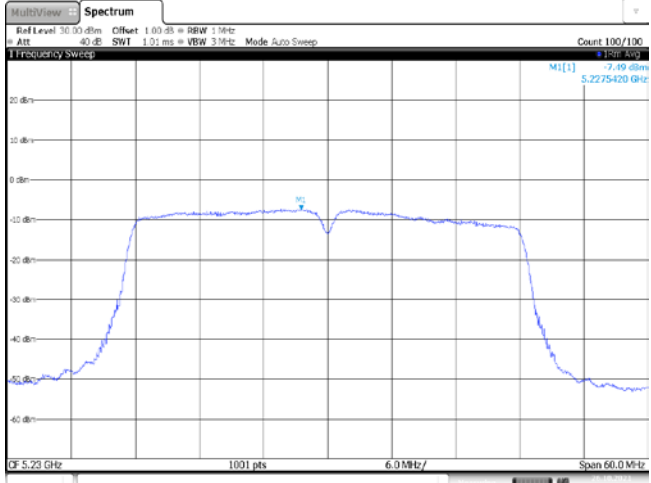
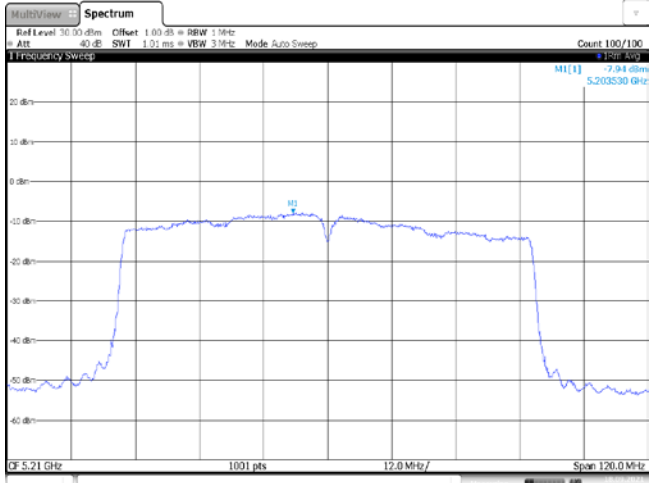
Band I	802.11a	Antenna 2
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1.95 dBm 1 Frequency Sweep MU[1] 4.98 dBm 5.1785910 GHz  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:54:24	
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1.79 dBm 1 Frequency Sweep MU[1] 1.79 dBm 5.2209590 GHz  CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:55:04	
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1.91 dBm 1 Frequency Sweep MU[1] 1.91 dBm 5.2386810 GHz  CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:55:42	

Band I		802.11n (HT40)	Antenna 2
CH _L	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -6.00 dBm 5.1874830 GHz CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 11:21:53		
CH _H	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -6.42 dBm 5.2347350 GHz CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 11:28:34		
Band I		802.11ac (HT80)	Antenna 2
CH _M	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -9.96 dBm 5.1788330 GHz CF 5.21 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 18.SEP.2021 18:26:32		

Band I		802.11ac (HT20)	Antenna 3
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 #100 Avg 1 Frequency Sweep M1[1] -4.71 dBm 5.1812290 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm OF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:17:06		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 #100 Avg 1 Frequency Sweep M1[1] -3.56 dBm 5.2186210 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm OF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:27:02		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 #100 Avg 1 Frequency Sweep M1[1] -5.07 dBm 5.2388010 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm OF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 09:38:09		

Band I		802.11n (HT20)	Antenna 3
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -3.18 dBm 5.1814090 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:55:48		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -4.32 dBm 5.2190710 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:57:43		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWF 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -5.65 dBm 5.2386810 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26.OCT.2021 18:58:32		

Band I		802.11a	Antenna 3
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 Frequency Sweep MU(1) 3.74 dBm 5.1811990 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 08:51:35 		
CH _M	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 Frequency Sweep MU(1) 2.30 dBm 5.2188310 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 08:52:58 		
CH _H	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3.15 kHz Mode Auto Sweep Count 100/100 Frequency Sweep MU(1) 6.77 dBm 5.2387710 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 SEP 2021 08:58:38 		

Band I		802.11n (HT40)	Antenna 3
CH _L	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -4.31 dBm 5.1923980 GHz CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 11:23:22		
CH _H	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -7.49 dBm 5.2275420 GHz CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 26.OCT.2021 11:24:42		
Band I		802.11ac (HT80)	Antenna 3
CH _M	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB SWI 1.01 ms = VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -7.94 dBm 5.203530 GHz CF 5.21 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 18.SEP.2021 18:25:47		

Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)				Result
				Antenna 0	Antenna 1	Antenna 2	Antenna 3	
I	20	802.11ac	CH _L	20.52	20.40	20.46	20.49	Pass
			CH _M	20.49	20.43	20.52	20.40	
			CH _H	20.58	20.43	20.37	20.52	
		802.11n	CH _L	20.52	20.40	20.46	20.46	Pass
			CH _M	20.58	20.43	20.49	20.43	
			CH _H	20.52	20.49	20.49	20.52	
		802.11a	CH _L	20.13	20.04	20.28	19.95	Pass
			CH _M	20.25	20.07	20.25	19.95	
			CH _H	20.16	20.10	22.41	20.01	
	40	802.11ac	CH _L	40.80	40.20	39.78	39.72	Pass
			CH _H	41.10	40.38	40.44	40.38	
		802.11n	CH _L	40.92	40.26	40.50	40.02	Pass
			CH _H	41.16	40.32	40.68	40.50	
	80	802.11ac	CH _M	81.48	81.24	80.76	80.64	Pass

