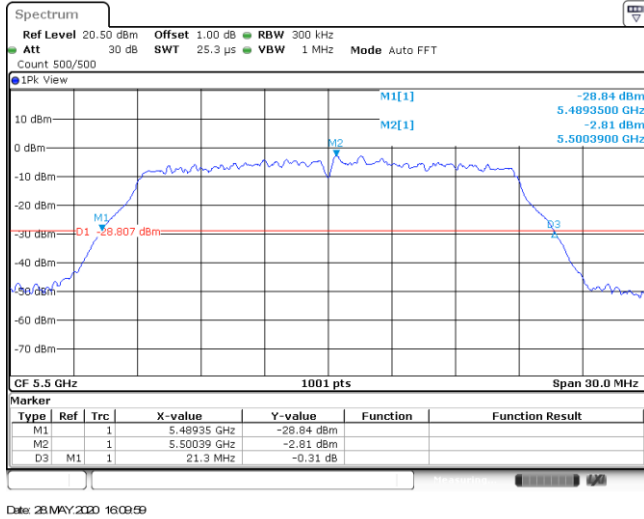


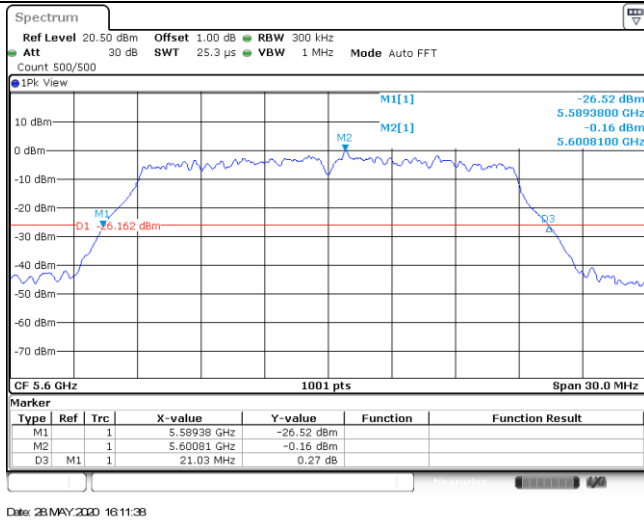
Band III

802.11n (HT20)

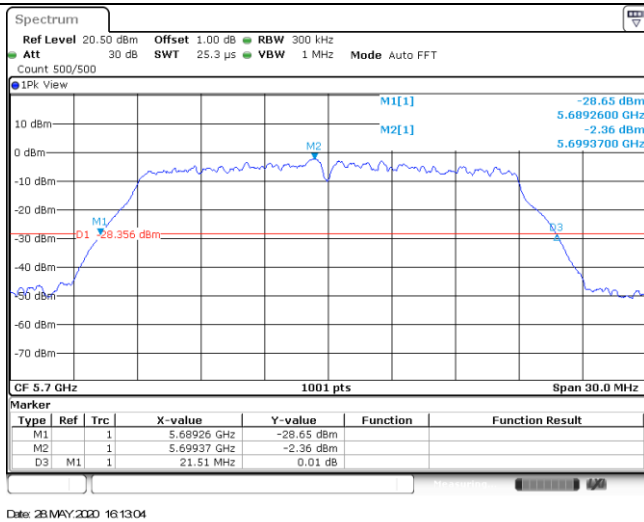
CH<sub>L</sub>



CH<sub>M</sub>

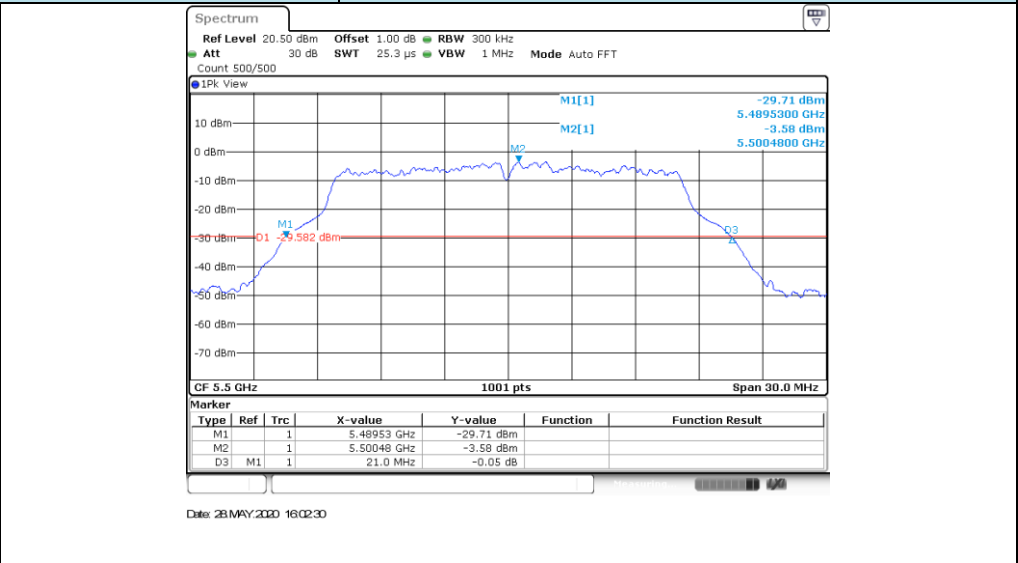


CH<sub>H</sub>

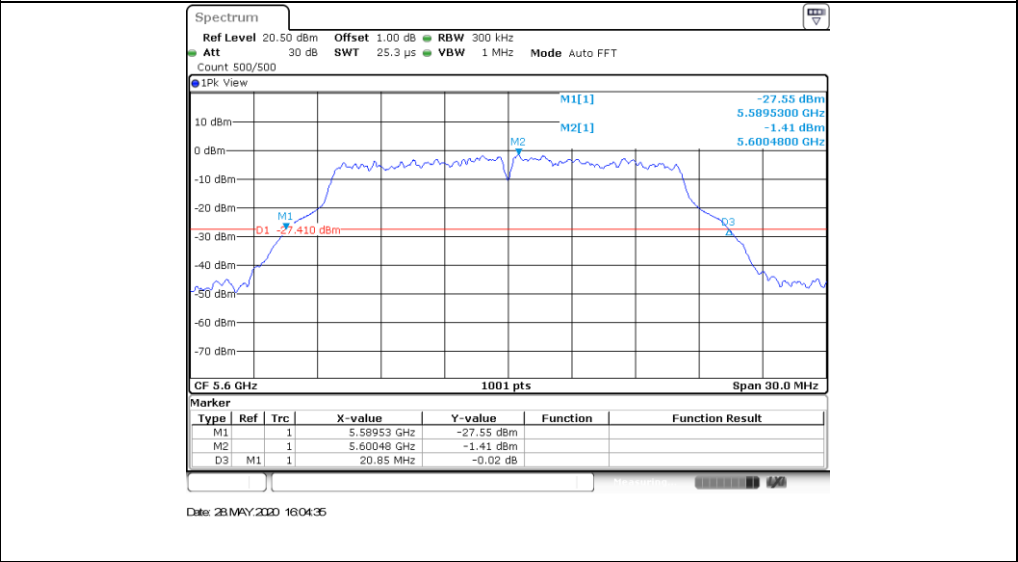


**Band III** **802.11a**

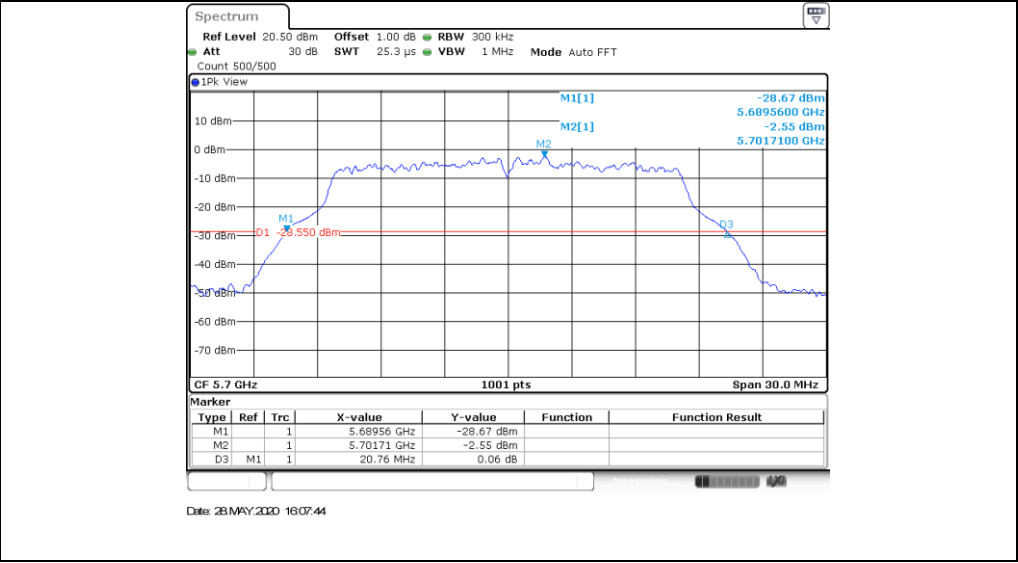
CH<sub>L</sub>



CH<sub>M</sub>

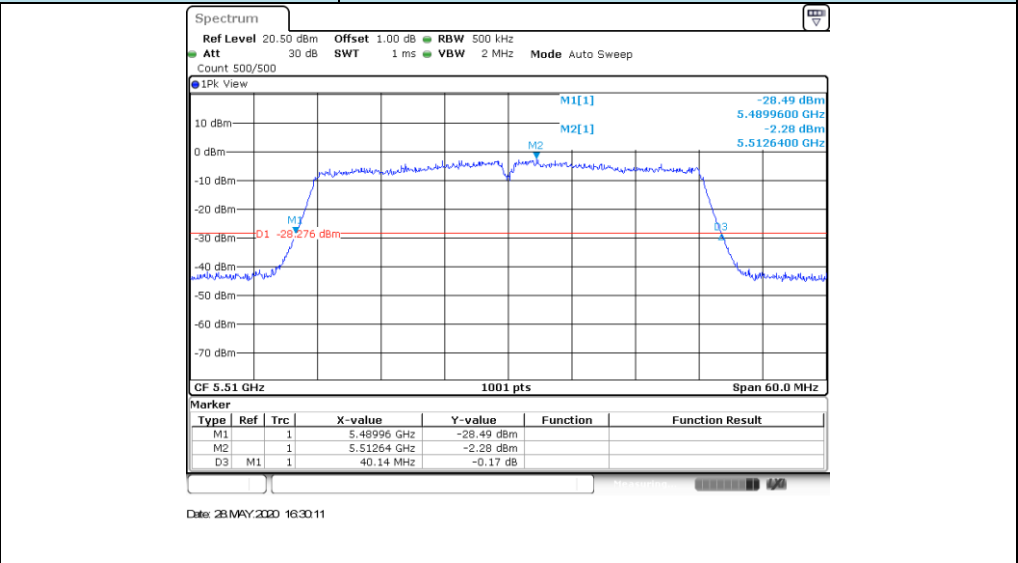


CH<sub>H</sub>

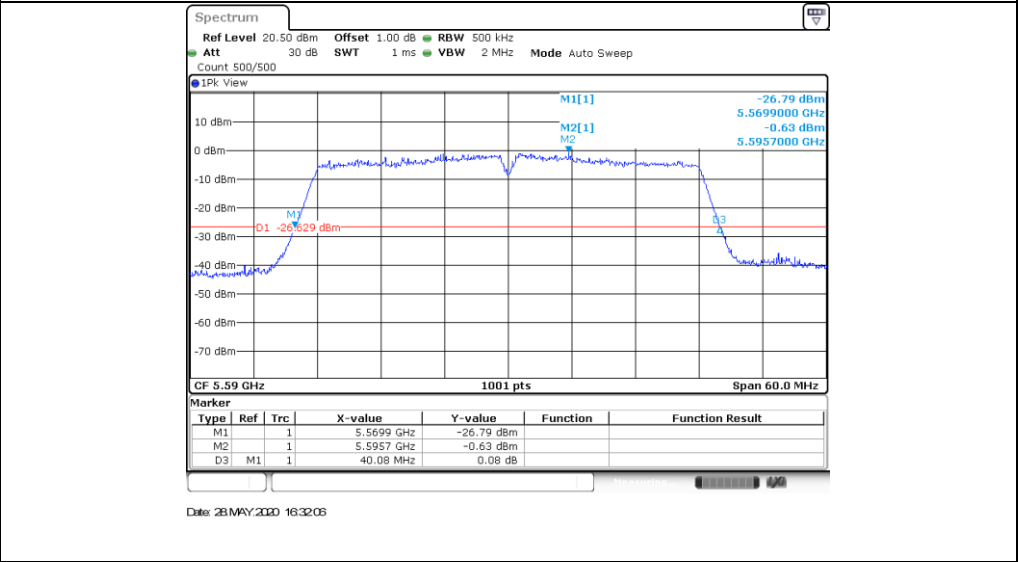


**Band III** **802.11ac (HT40)**

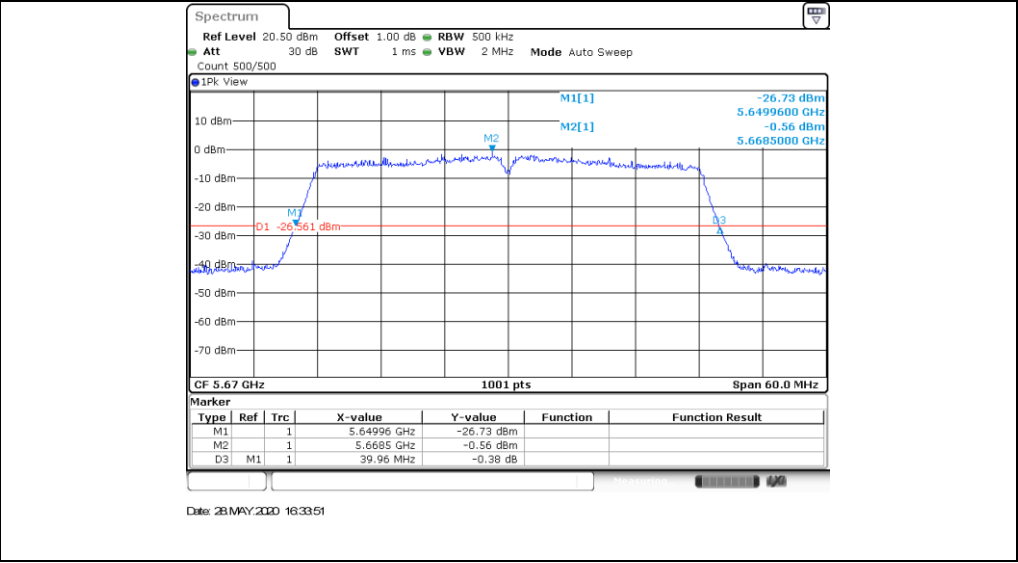
CH<sub>L</sub>



CH<sub>M</sub>

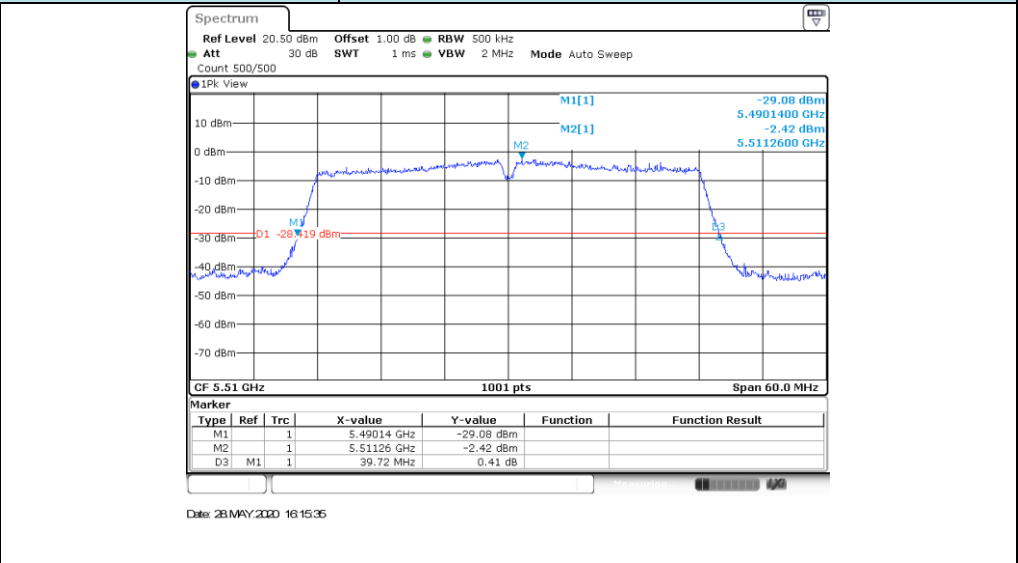


CH<sub>H</sub>

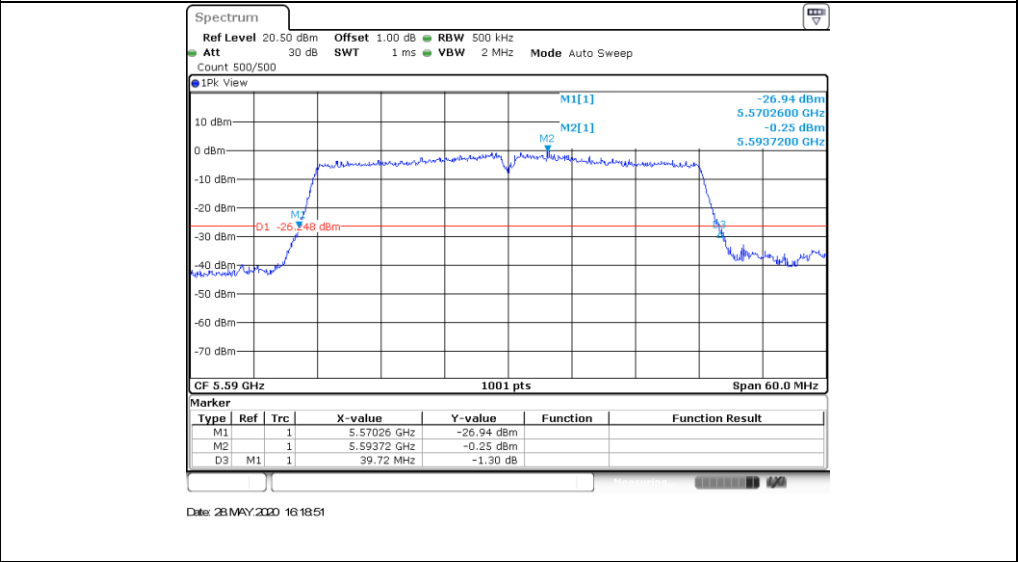


**Band III** **802.11n (HT40)**

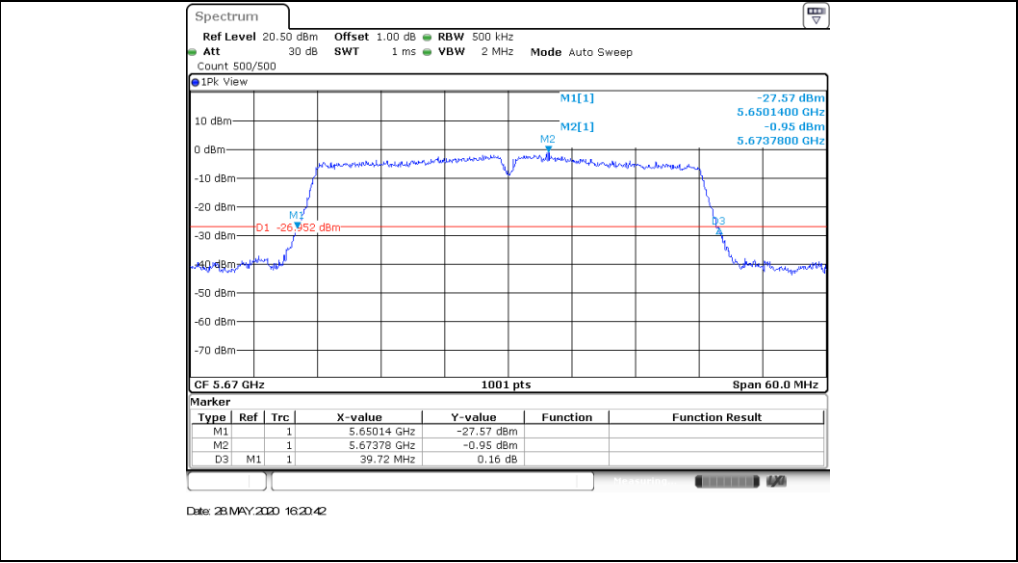
CH<sub>L</sub>



CH<sub>M</sub>

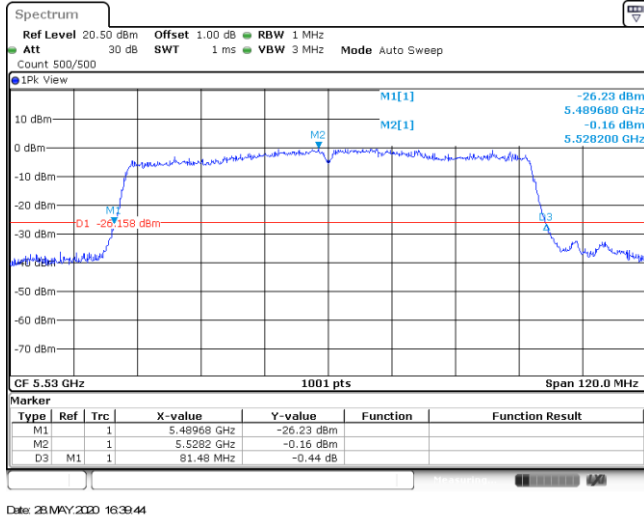


CH<sub>H</sub>

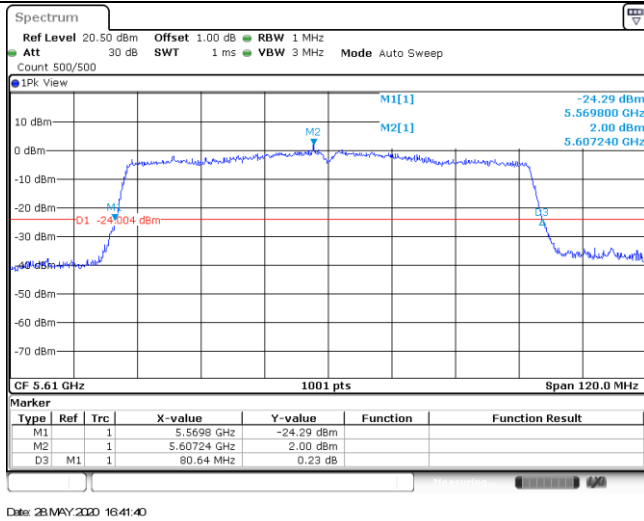


**Band III** **802.11ac (HT80)**

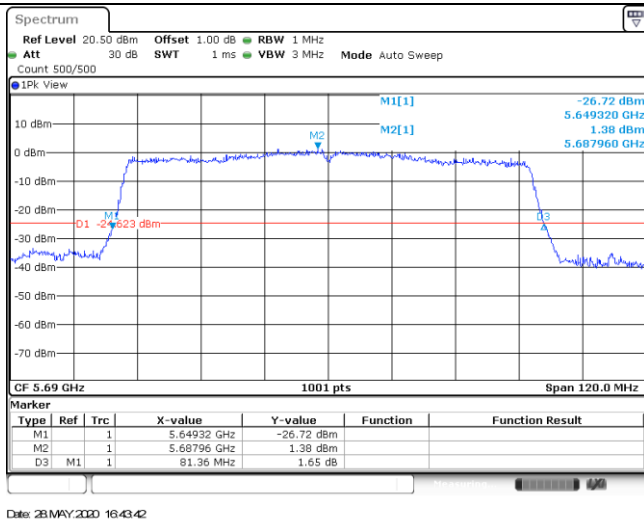
CH<sub>L</sub>



CH<sub>M</sub>



CH<sub>H</sub>

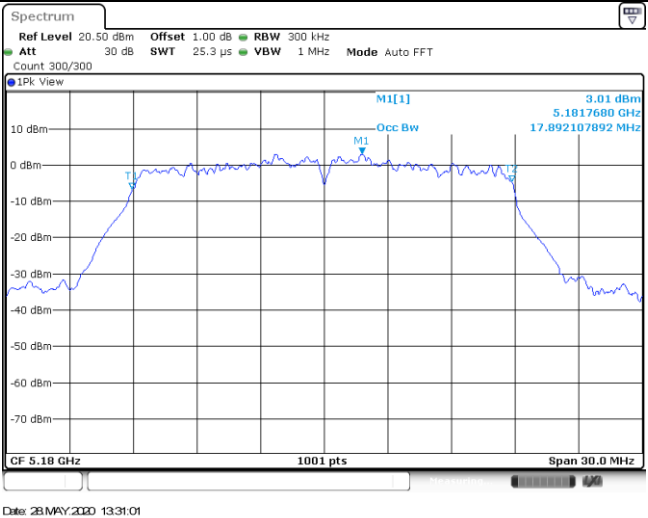
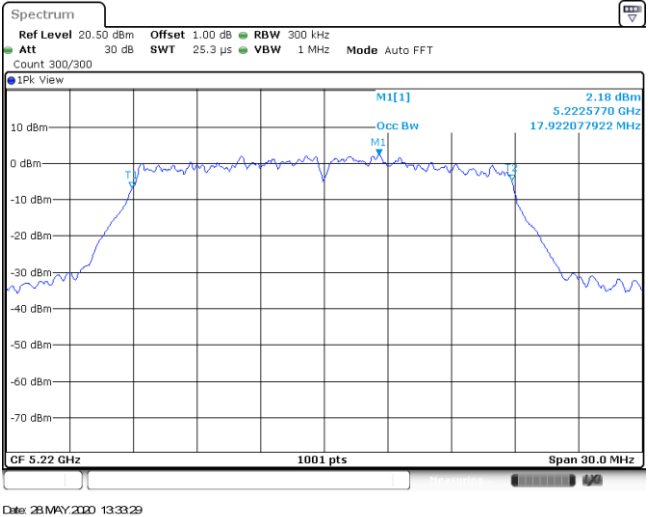
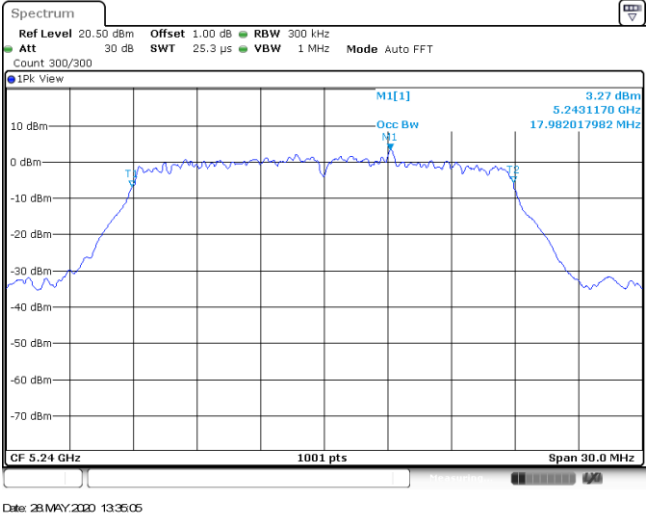


**Appendix D: 99% Occupy bandwidth**

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH <sub>L</sub>	17.89	Pass
			CH <sub>M</sub>	17.92	
			CH <sub>H</sub>	17.98	
		802.11n	CH <sub>L</sub>	17.83	Pass
			CH <sub>M</sub>	17.95	
			CH <sub>H</sub>	17.83	
	802.11a	CH <sub>L</sub>	16.57	Pass	
		CH <sub>M</sub>	16.60		
		CH <sub>H</sub>	16.57		
	40	802.11ac	CH <sub>L</sub>	36.44	Pass
			CH <sub>H</sub>	36.50	
		802.11n	CH <sub>L</sub>	36.32	Pass
CH <sub>H</sub>			36.32		
80	802.11ac	CH <sub>M</sub>	75.52	Pass	
II	20	802.11ac	CH <sub>L</sub>	17.92	Pass
			CH <sub>M</sub>	18.01	
			CH <sub>H</sub>	17.80	
		802.11n	CH <sub>L</sub>	17.71	Pass
			CH <sub>M</sub>	17.68	
			CH <sub>H</sub>	17.83	
	802.11a	CH <sub>L</sub>	16.63	Pass	
		CH <sub>M</sub>	16.60		
		CH <sub>H</sub>	16.63		
	40	802.11ac	CH <sub>L</sub>	36.32	Pass
			CH <sub>H</sub>	36.44	
		802.11n	CH <sub>L</sub>	36.26	Pass
CH <sub>H</sub>			36.26		
80	802.11ac	CH <sub>M</sub>	75.52	Pass	

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
III	20	802.11ac	CH <sub>L</sub>	17.92	Pass
			CH <sub>M</sub>	18.13	
			CH <sub>H</sub>	17.92	
		802.11n	CH <sub>L</sub>	17.80	Pass
			CH <sub>M</sub>	17.89	
			CH <sub>H</sub>	17.77	
		802.11a	CH <sub>L</sub>	16.60	Pass
			CH <sub>M</sub>	16.54	
			CH <sub>H</sub>	16.57	
	40	802.11ac	CH <sub>L</sub>	36.32	Pass
			CH <sub>M</sub>	36.32	
			CH <sub>H</sub>	36.44	
		802.11n	CH <sub>L</sub>	36.26	Pass
			CH <sub>M</sub>	36.26	
			CH <sub>H</sub>	36.26	
80	802.11ac	CH <sub>L</sub>	75.41	Pass	
		CH <sub>M</sub>	75.41		
		CH <sub>H</sub>	75.52		

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
IV	20	802.11ac	CH <sub>L</sub>	17.92	Pass
			CH <sub>M</sub>	17.83	
			CH <sub>H</sub>	17.89	
		802.11n	CH <sub>L</sub>	17.74	Pass
			CH <sub>M</sub>	17.80	
			CH <sub>H</sub>	17.92	
		802.11a	CH <sub>L</sub>	16.60	Pass
			CH <sub>M</sub>	16.57	
			CH <sub>H</sub>	16.63	
	40	802.11ac	CH <sub>L</sub>	36.38	Pass
			CH <sub>H</sub>	36.50	
		802.11n	CH <sub>L</sub>	36.30	Pass
			CH <sub>H</sub>	36.30	
	80	802.11ac	CH <sub>M</sub>	75.52	Pass

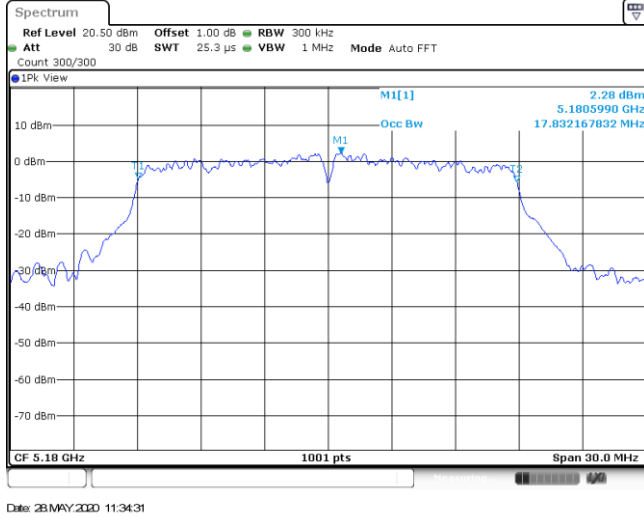
Band I		802.11ac (HT20)
CH <sub>L</sub>		
CH <sub>M</sub>		
CH <sub>H</sub>		



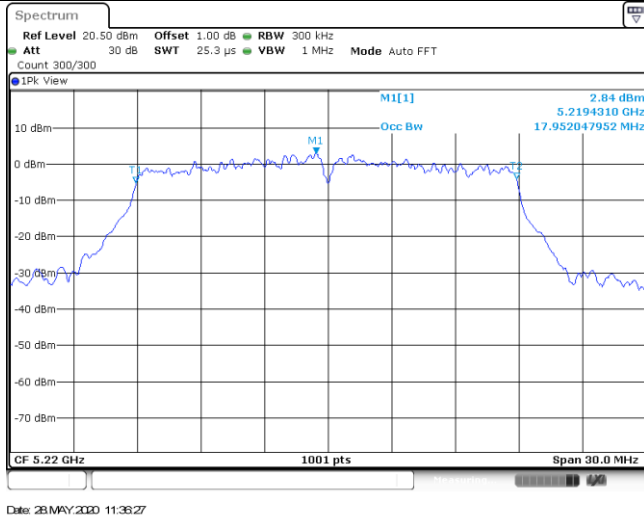
Band I

802.11n (HT20)

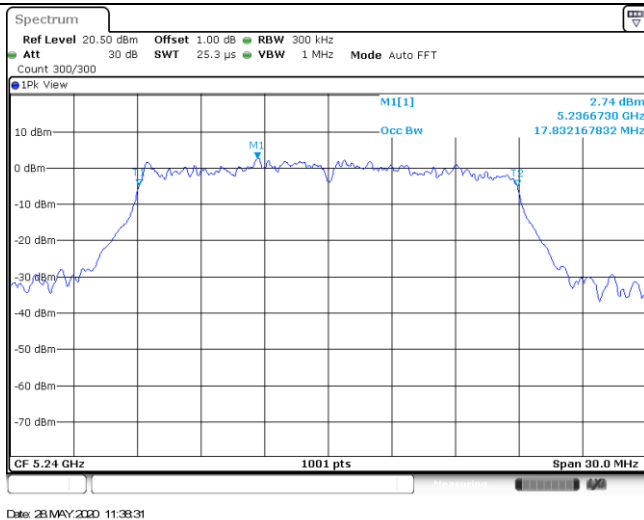
CH<sub>L</sub>



CH<sub>M</sub>



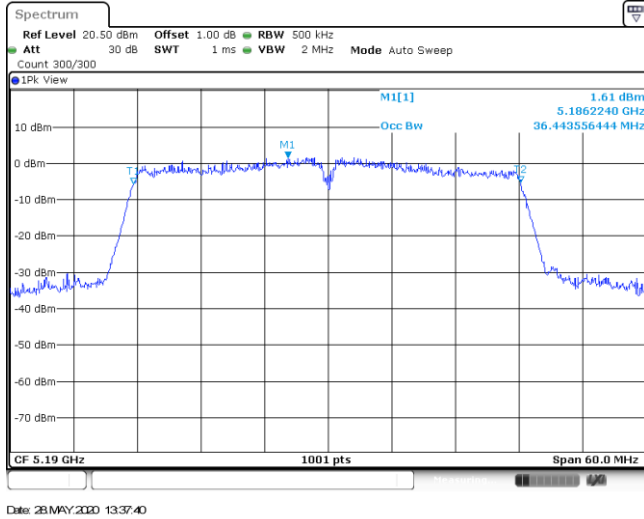
CH<sub>H</sub>



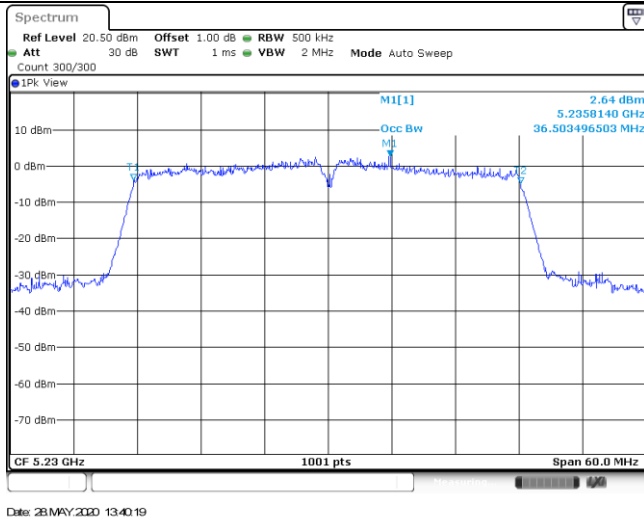
Band I		802.11a
CH <sub>L</sub>	<p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300</p> <p>IPK View</p> <p>M1[1] 4.14 dBm M1 5.1812290 GHz Occ Bw 16.579426573 MHz</p> <p>CF 5.18 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 28 MAY 2020 11:22:47</p>	
CH <sub>M</sub>	<p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300</p> <p>IPK View</p> <p>M1[1] 4.28 dBm M1 5.2217380 GHz Occ Bw 16.603396603 MHz</p> <p>CF 5.22 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 28 MAY 2020 11:29:35</p>	
CH <sub>H</sub>	<p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300</p> <p>IPK View</p> <p>M1[1] 3.98 dBm M1 5.2387710 GHz Occ Bw 16.579426573 MHz</p> <p>CF 5.24 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 28 MAY 2020 11:31:12</p>	

**Band I** **802.11ac (HT40)**

CH<sub>L</sub>



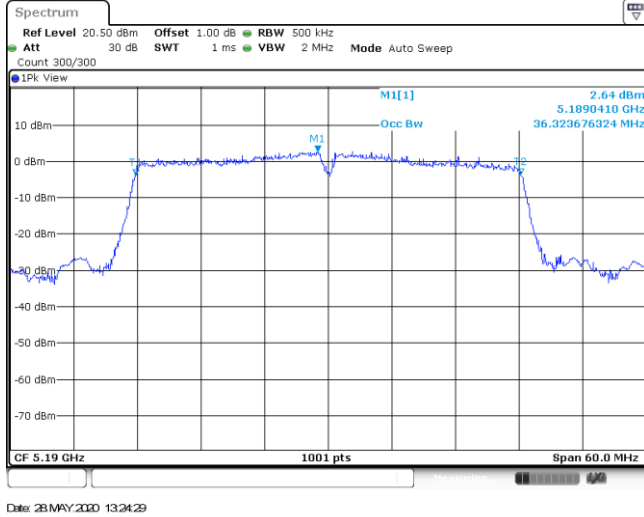
CH<sub>H</sub>



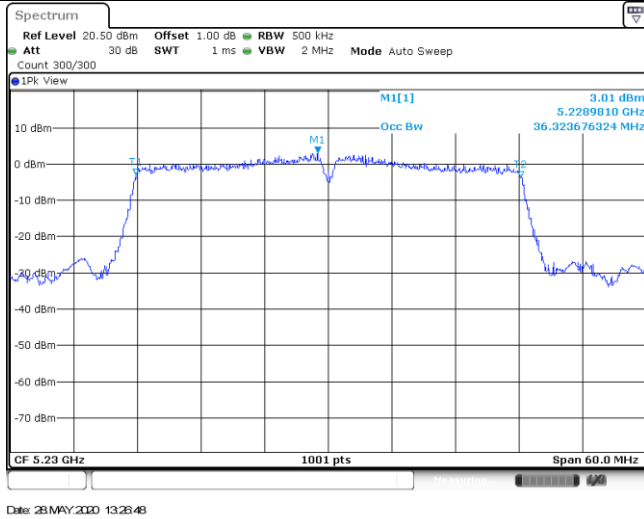
Band I

802.11n (HT40)

CH<sub>L</sub>



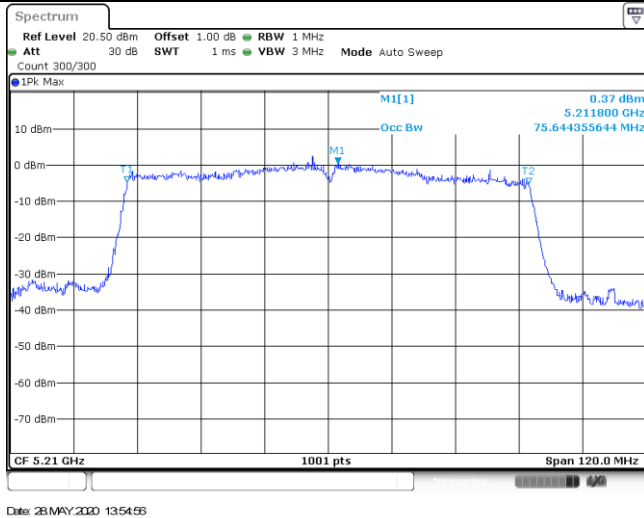
CH<sub>H</sub>



Band I

802.11ac (HT80)

CH<sub>M</sub>

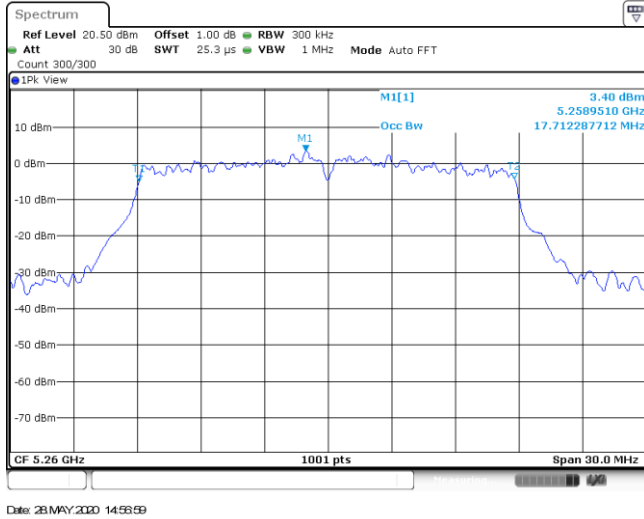


Band II		802.11ac (HT20)
CH <sub>L</sub>	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 1.91 dBm 5.2613190 GHz Occ Bw 17.922077922 MHz CF 5.26 GHz 1001 pts Span 30.0 MHz Date: 28 MAY 2020 15:15:34</p>	
CH <sub>M</sub>	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 9.33 dBm 5.2805090 GHz Occ Bw 18.011988012 MHz CF 5.28 GHz 1001 pts Span 30.0 MHz Date: 28 MAY 2020 15:18:33</p>	
CH <sub>H</sub>	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 2.00 dBm 5.3186510 GHz Occ Bw 17.802197802 MHz CF 5.32 GHz 1001 pts Span 30.0 MHz Date: 28 MAY 2020 15:20:66</p>	

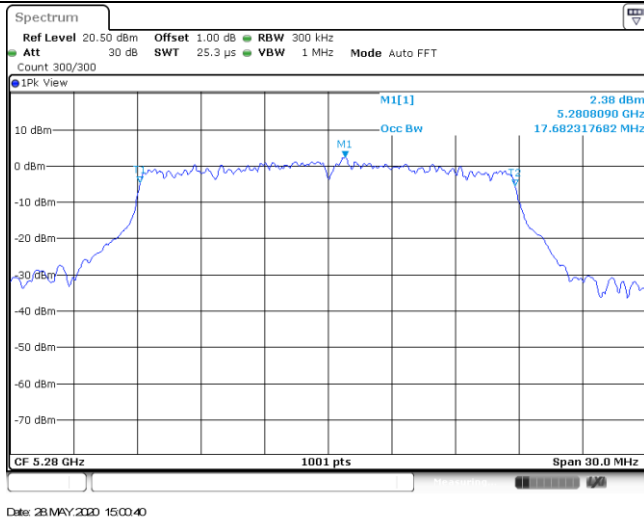
Band II

802.11n (HT20)

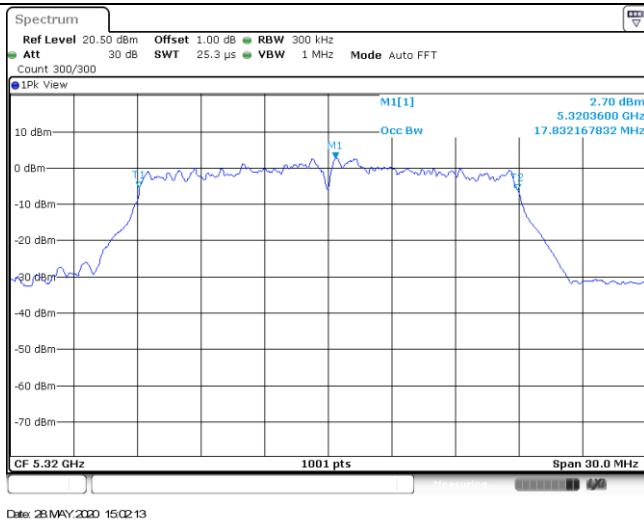
CH<sub>L</sub>



CH<sub>M</sub>



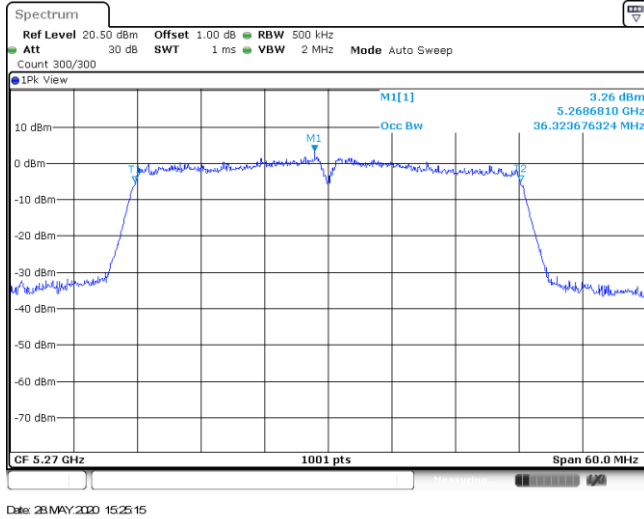
CH<sub>H</sub>



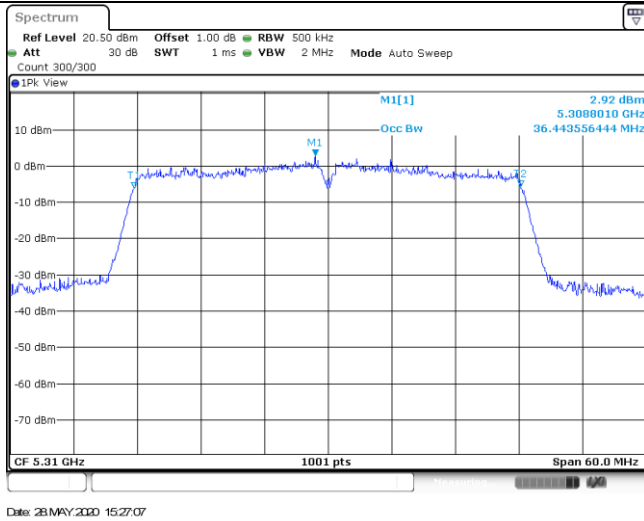
Band II		802.11a
CH <sub>L</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 3.96 dBm 5.2616480 GHz 16.633366633 MHz CF 5.26 GHz 1001 pts Span 30.0 MHz Date: 28 MAY 2020 14:41:51</p>	
CH <sub>M</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 3.97 dBm 5.2817080 GHz 16.603396603 MHz CF 5.28 GHz 1001 pts Span 30.0 MHz Date: 28 MAY 2020 14:43:52</p>	
CH <sub>H</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 3.78 dBm 5.3205090 GHz 16.633366633 MHz CF 5.32 GHz 1001 pts Span 30.0 MHz Date: 28 MAY 2020 14:47:14</p>	

**Band II** **802.11ac (HT40)**

CH<sub>L</sub>



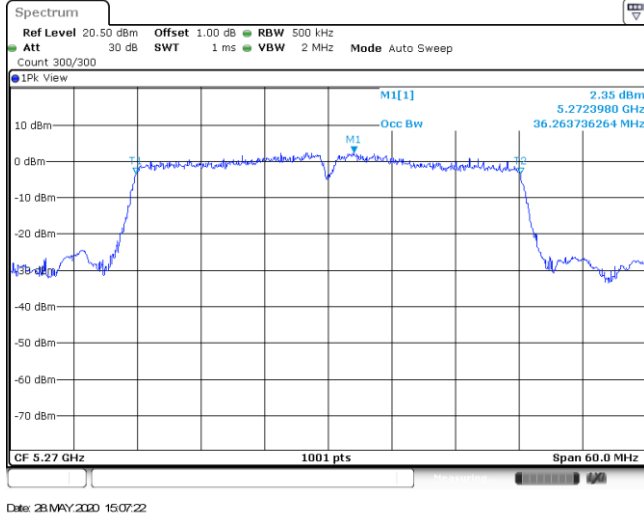
CH<sub>H</sub>



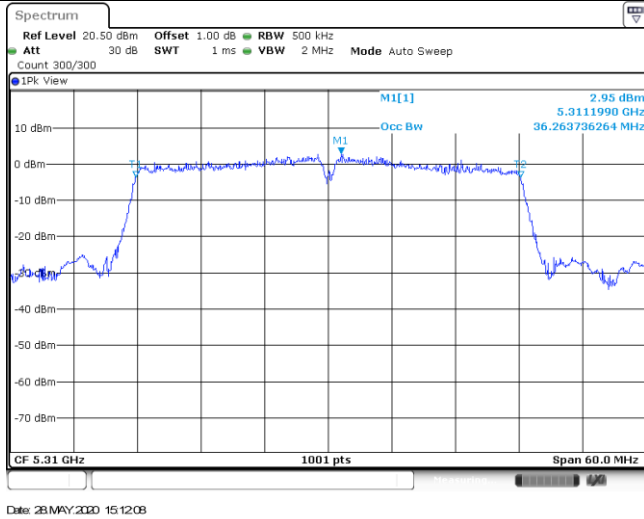


**Band II** **802.11n (HT40)**

CH<sub>L</sub>

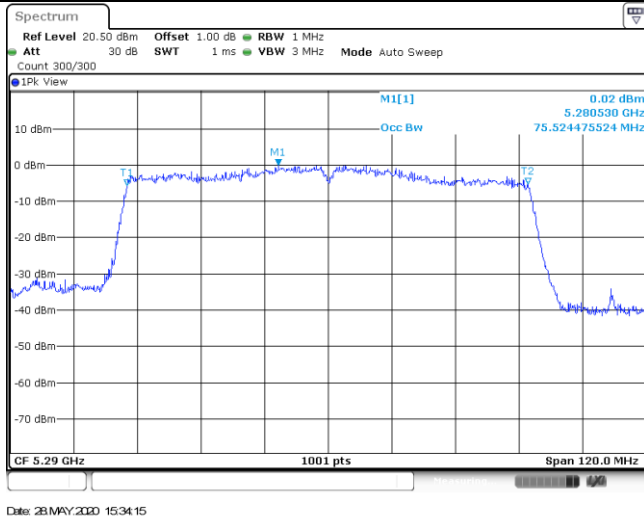


CH<sub>H</sub>



**Band II** **802.11ac (HT80)**

CH<sub>M</sub>



Band III		802.11ac (HT20)
CH <sub>L</sub>	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -1.98 dBm                      5.5009290 GHz                      Occ Bw 17.922077922 MHz                      CF 5.5 GHz 1001 pts Span 30.0 MHz                      Date: 28 MAY 2020 16:23:46                 </p>	
CH <sub>M</sub>	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -1.83 dBm                      5.5992510 GHz                      Occ Bw 18.131868132 MHz                      CF 5.6 GHz 1001 pts Span 30.0 MHz                      Date: 28 MAY 2020 16:25:47                 </p>	
CH <sub>H</sub>	<p>                     Spectrum                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -3.27 dBm                      5.7007490 GHz                      Occ Bw 17.922077922 MHz                      CF 5.7 GHz 1001 pts Span 30.0 MHz                      Date: 28 MAY 2020 16:27:34                 </p>	

Band III		802.11n (HT20)
CH <sub>L</sub>	<p>                     Spectrum                      Ref Level 20.50 dBm    Offset 1.00 dB    RBW 300 kHz                      Att 30 dB    SWT 25.3 μs    VBW 1 MHz    Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -2.76 dBm                      5.4989510 GHz                      Occ Bw 17.802197802 MHz                      CF 5.5 GHz    1001 pts    Span 30.0 MHz                      Date: 28 MAY 2020 16:09:50                 </p>	
CH <sub>M</sub>	<p>                     Spectrum                      Ref Level 20.50 dBm    Offset 1.00 dB    RBW 300 kHz                      Att 30 dB    SWT 25.3 μs    VBW 1 MHz    Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -0.42 dBm                      5.6012290 GHz                      Occ Bw 17.892107892 MHz                      CF 5.6 GHz    1001 pts    Span 30.0 MHz                      Date: 28 MAY 2020 16:11:31                 </p>	
CH <sub>H</sub>	<p>                     Spectrum                      Ref Level 20.50 dBm    Offset 1.00 dB    RBW 300 kHz                      Att 30 dB    SWT 25.3 μs    VBW 1 MHz    Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -2.71 dBm                      5.7008090 GHz                      Occ Bw 17.772227772 MHz                      CF 5.7 GHz    1001 pts    Span 30.0 MHz                      Date: 28 MAY 2020 16:12:56                 </p>	

Band III		802.11a
CH <sub>L</sub>	<p> <b>Spectrum</b>                      Ref Level 20.50 dBm    Offset 1.00 dB    RBW 300 kHz                      Att 30 dB    SWT 25.3 μs    VBW 1 MHz    Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -3.32 dBm                      Occ Bw 5.5017380 GHz                      16.603396603 MHz                      CF 5.5 GHz    1001 pts    Span 30.0 MHz                      Date: 28 MAY 2020 16:02:19                 </p>	
CH <sub>M</sub>	<p> <b>Spectrum</b>                      Ref Level 20.50 dBm    Offset 1.00 dB    RBW 300 kHz                      Att 30 dB    SWT 25.3 μs    VBW 1 MHz    Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -1.19 dBm                      Occ Bw 5.6017380 GHz                      16.543456543 MHz                      CF 5.6 GHz    1001 pts    Span 30.0 MHz                      Date: 28 MAY 2020 16:04:28                 </p>	
CH <sub>H</sub>	<p> <b>Spectrum</b>                      Ref Level 20.50 dBm    Offset 1.00 dB    RBW 300 kHz                      Att 30 dB    SWT 25.3 μs    VBW 1 MHz    Mode Auto FFT                      Count 300/300                      IPK View                      M1[1] -2.84 dBm                      Occ Bw 5.7005090 GHz                      16.579426573 MHz                      CF 5.7 GHz    1001 pts    Span 30.0 MHz                      Date: 28 MAY 2020 16:07:37                 </p>	

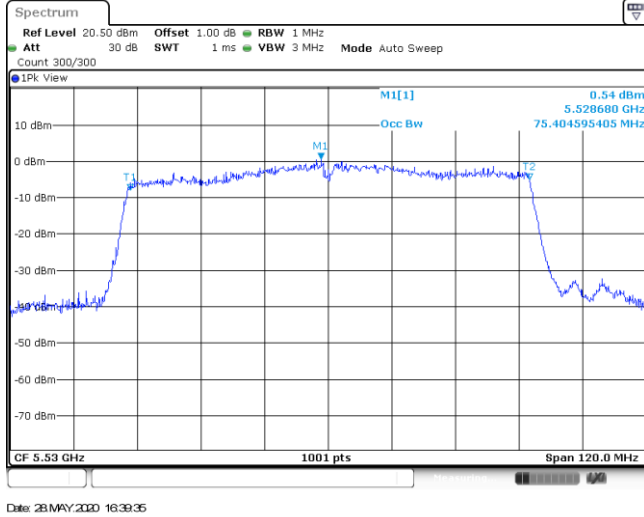
Band III		802.11ac (HT40)
CH <sub>L</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPK View M1[1] -1.81 dBm 5.5085010 GHz Occ Bw 36.329676324 MHz CF 5.51 GHz 1001 pts Span 60.0 MHz Date: 28 MAY 2020 16:30:02</p>	
CH <sub>M</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPK View M1[1] -0.08 dBm 5.5926370 GHz Occ Bw 36.329676324 MHz CF 5.59 GHz 1001 pts Span 60.0 MHz Date: 28 MAY 2020 16:31:57</p>	
CH <sub>H</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPK View M1[1] -1.85 dBm 5.6676020 GHz Occ Bw 36.443556444 MHz CF 5.67 GHz 1001 pts Span 60.0 MHz Date: 28 MAY 2020 16:33:42</p>	

Band III		802.11n (HT40)
CH <sub>L</sub>		
CH <sub>M</sub>		
CH <sub>H</sub>		

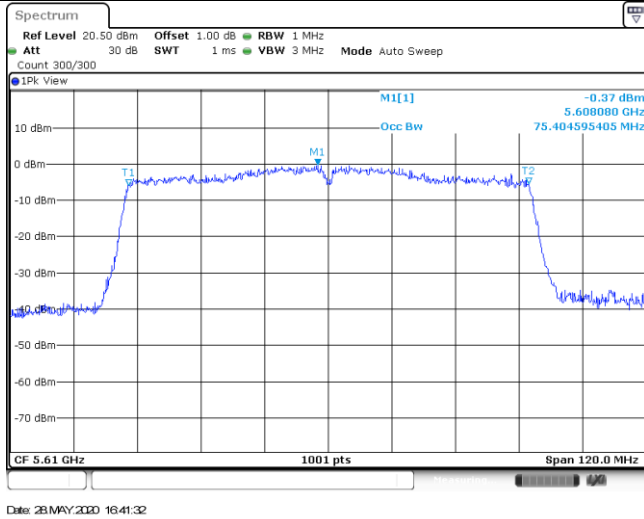
Band III

802.11ac (HT80)

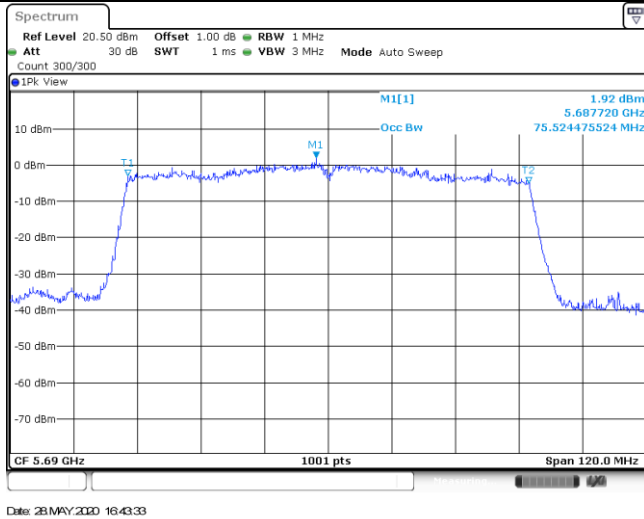
CH<sub>L</sub>



CH<sub>M</sub>



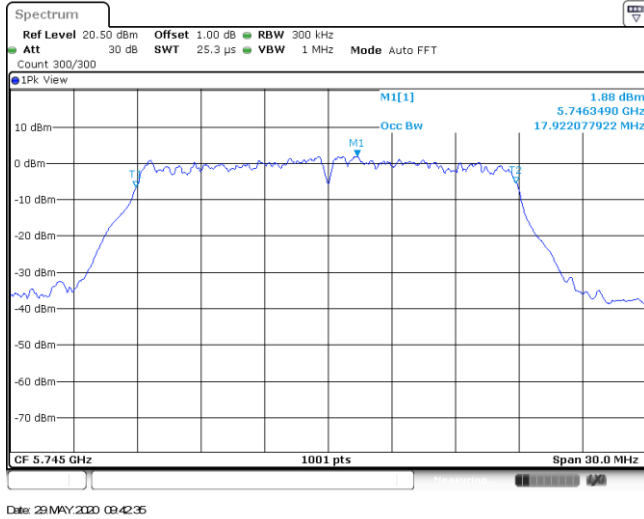
CH<sub>H</sub>



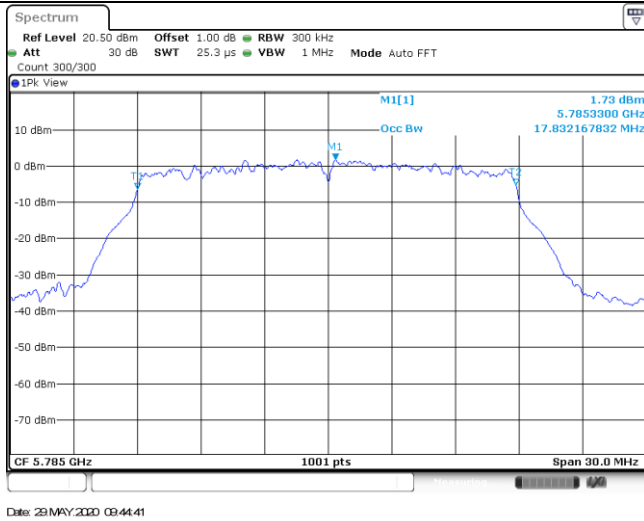
Band IV

802.11ac (HT20)

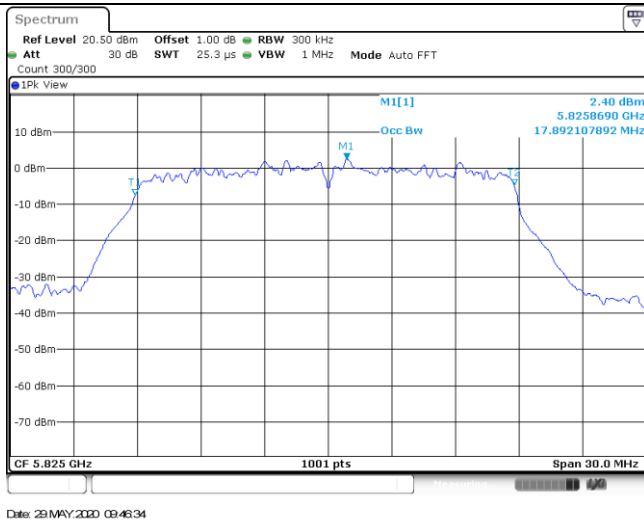
CH<sub>L</sub>



CH<sub>M</sub>

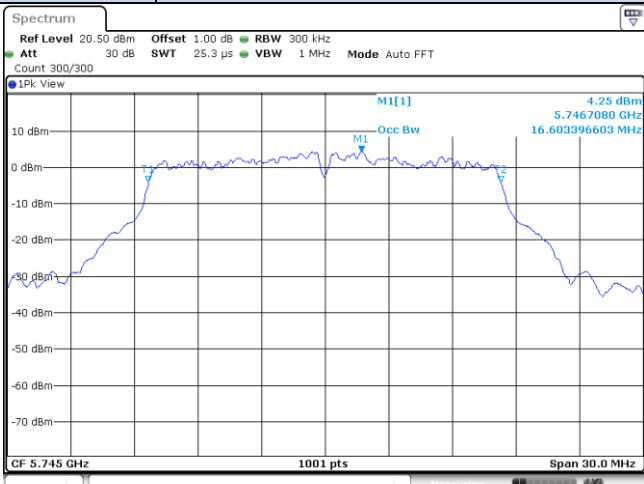
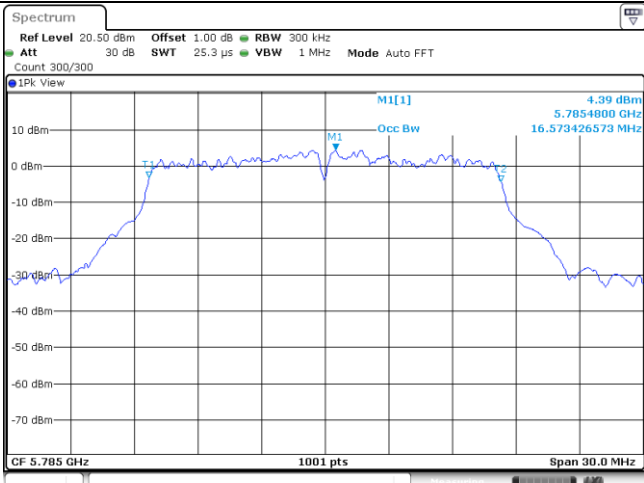
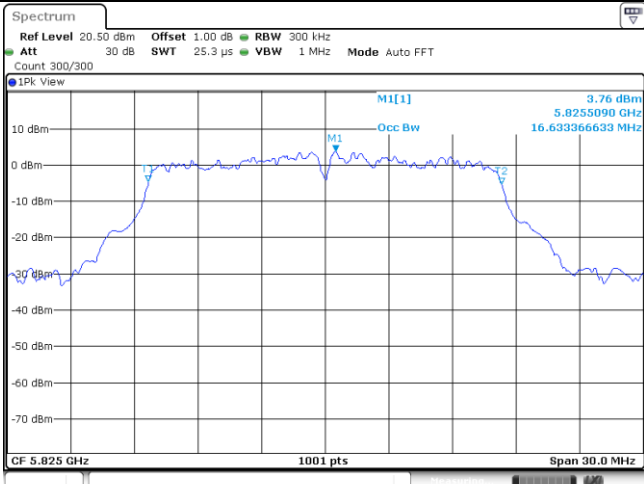


CH<sub>H</sub>



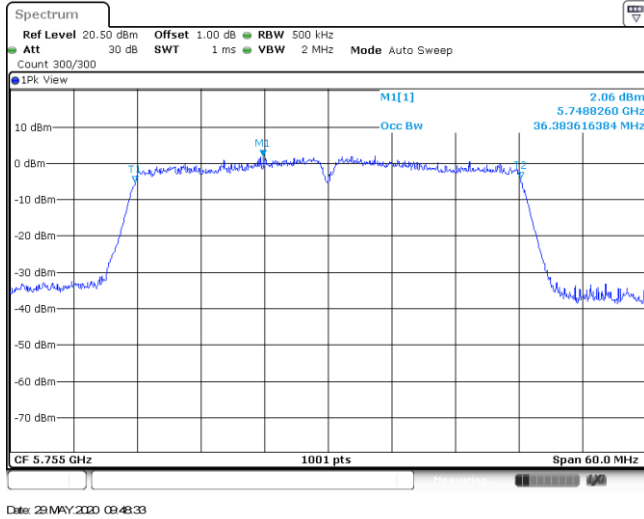


Band IV		802.11n (HT20)
CH <sub>L</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 2.61 dBm 5.7480870 GHz 17.742257742 MHz CF 5.745 GHz 1001 pts Span 30.0 MHz Date: 29 MAY 2020 09:30:45</p>	
CH <sub>M</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 2.34 dBm 5.7934720 GHz 17.802197802 MHz CF 5.785 GHz 1001 pts Span 30.0 MHz Date: 29 MAY 2020 09:33:09</p>	
CH <sub>H</sub>	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300 IPK View M1[1] 2.42 dBm 5.8255690 GHz 17.922077922 MHz CF 5.825 GHz 1001 pts Span 30.0 MHz Date: 29 MAY 2020 09:35:02</p>	

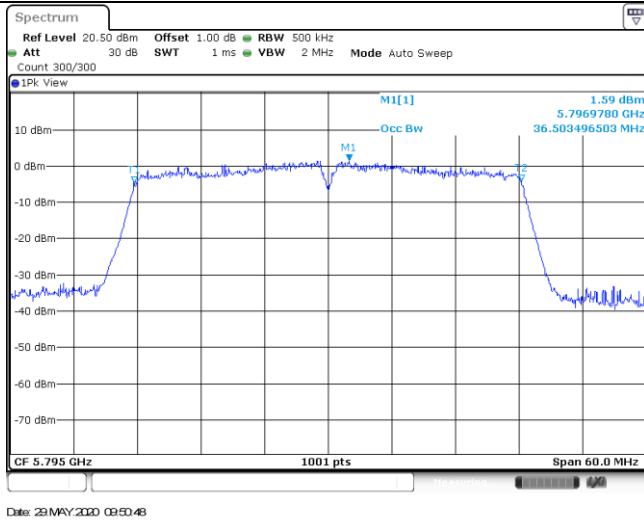
Band IV		802.11a
CH <sub>L</sub>	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300</p> <p>IPK View</p> <p>M1[1] 4.25 dBm 5.7467080 GHz 16.603396603 MHz</p> <p>CF 5.745 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 29 MAY 2020 09:18:52</p>	
CH <sub>M</sub>	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300</p> <p>IPK View</p> <p>M1[1] 4.39 dBm 5.7854800 GHz 16.579426573 MHz</p> <p>CF 5.785 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 29 MAY 2020 09:22:46</p>	
CH <sub>H</sub>	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 300/300</p> <p>IPK View</p> <p>M1[1] 3.76 dBm 5.8255090 GHz 16.639366633 MHz</p> <p>CF 5.825 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 29 MAY 2020 09:27:51</p>	

**Band IV** **802.11ac (HT40)**

CH<sub>L</sub>

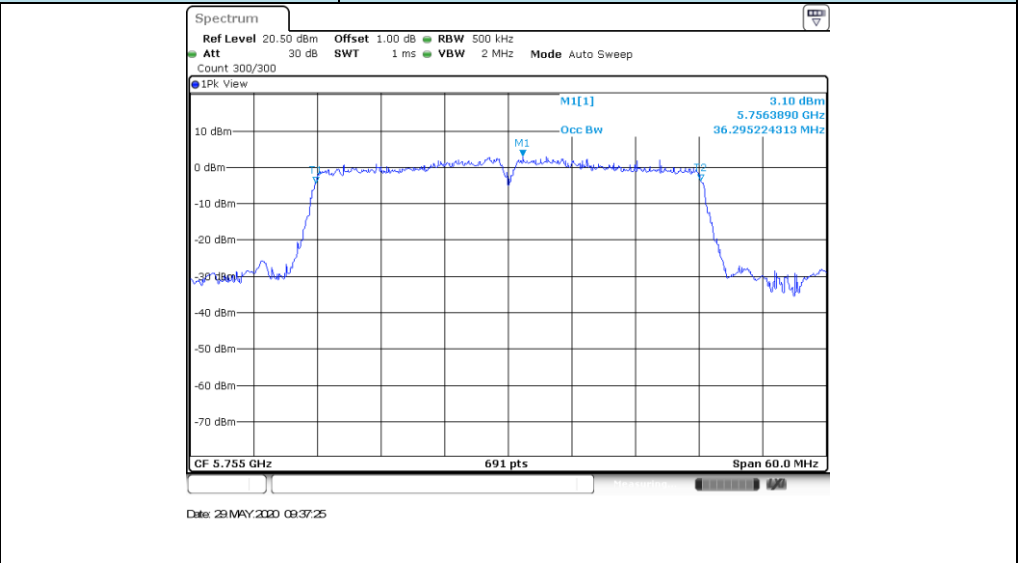


CH<sub>H</sub>

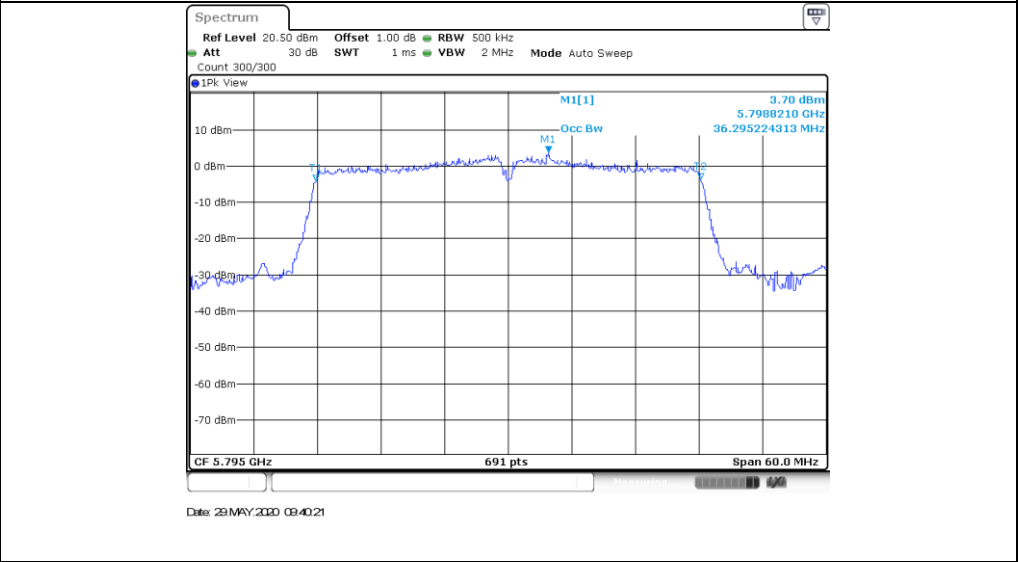


**Band IV** **802.11n (HT40)**

CH<sub>L</sub>

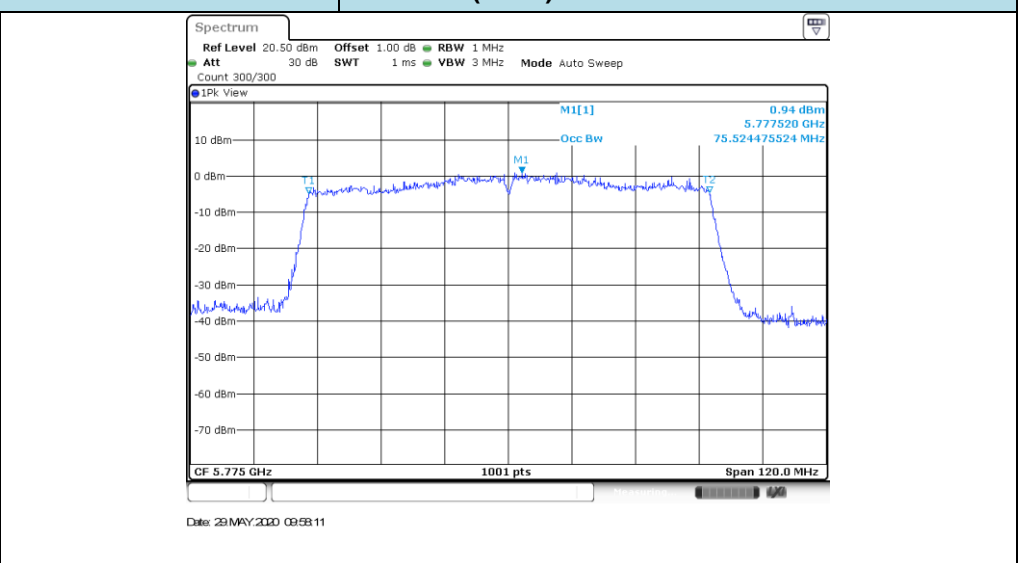


CH<sub>H</sub>



**Band IV** **802.11ac (HT80)**

CH<sub>M</sub>

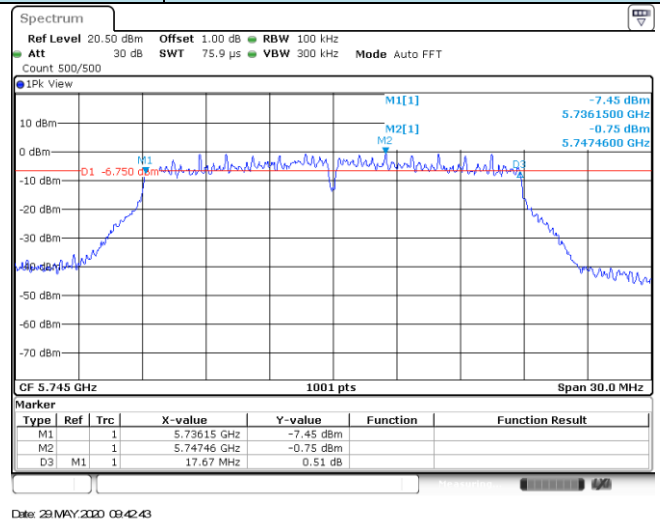


**Appendix E: 6dB Bandwidth**

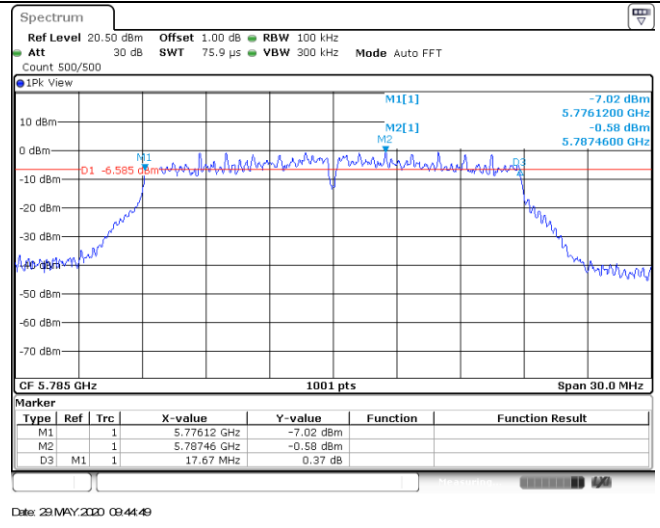
Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH <sub>L</sub>	17.67	Pass
			CH <sub>M</sub>	17.67	
			CH <sub>H</sub>	17.73	
		802.11n	CH <sub>L</sub>	17.70	Pass
			CH <sub>M</sub>	17.67	
			CH <sub>H</sub>	17.67	
		802.11a	CH <sub>L</sub>	16.41	Pass
			CH <sub>M</sub>	16.44	
			CH <sub>H</sub>	16.38	
	40	802.11ac	CH <sub>L</sub>	36.06	Pass
			CH <sub>H</sub>	36.36	
		802.11n	CH <sub>L</sub>	36.17	Pass
CH <sub>H</sub>			36.00		
80	802.11ac	CH <sub>M</sub>	75.48	Pass	

**Band IV** **802.11ac (HT20)**

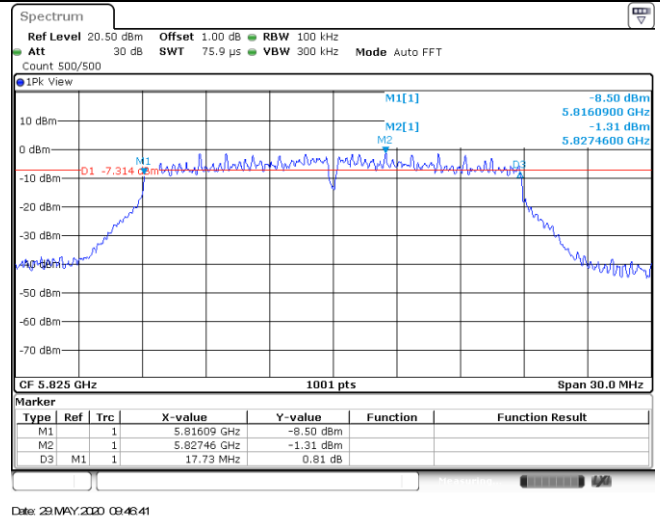
CH<sub>L</sub>



CH<sub>M</sub>

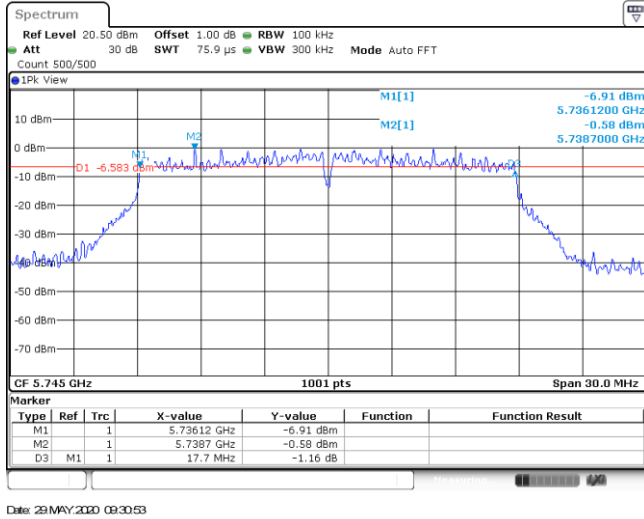


CH<sub>H</sub>

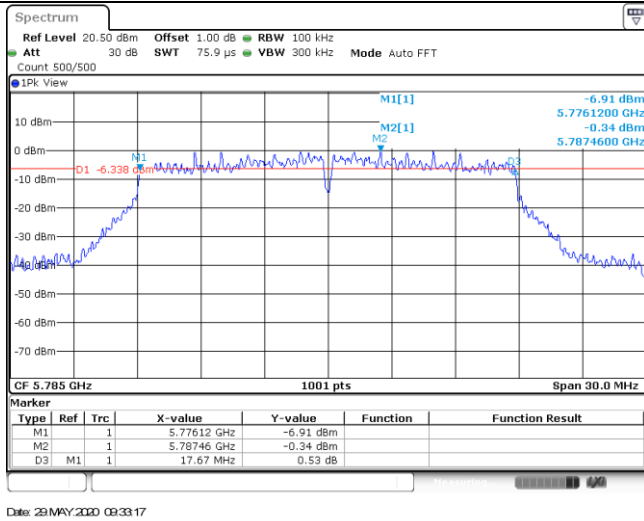


**Band IV** **802.11n (HT20)**

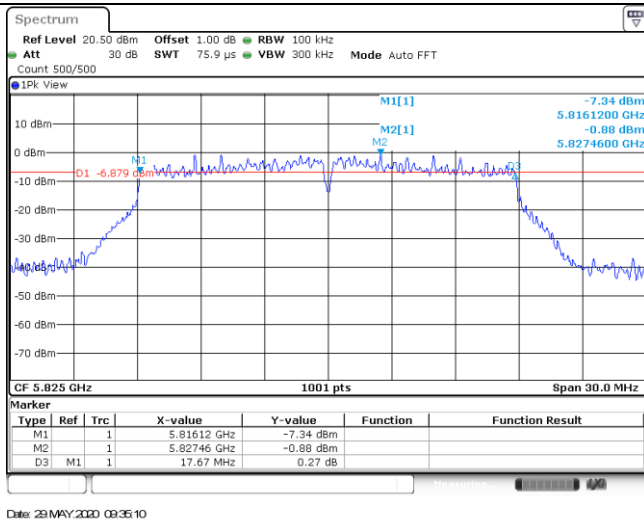
CH<sub>L</sub>



CH<sub>M</sub>

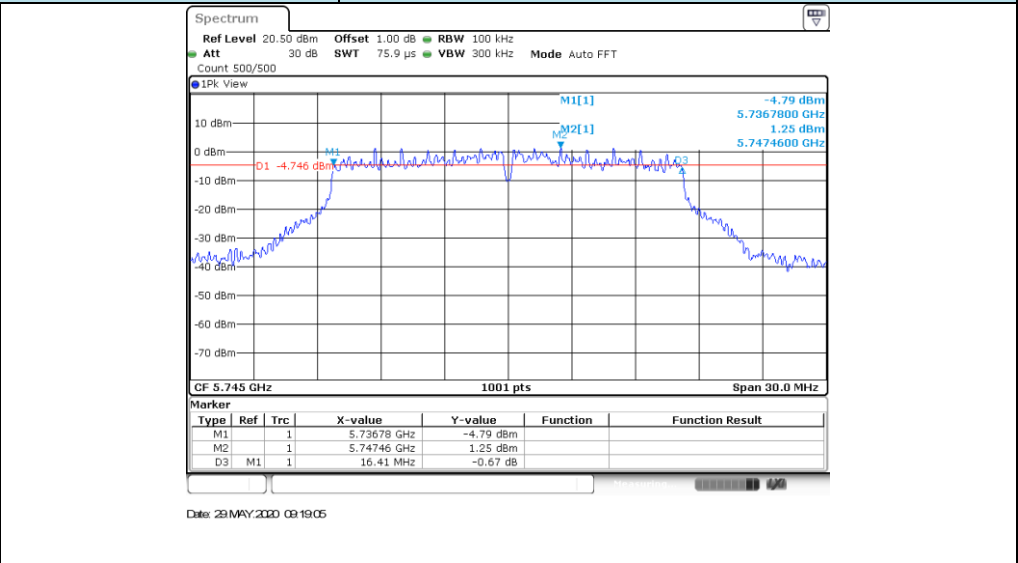


CH<sub>H</sub>

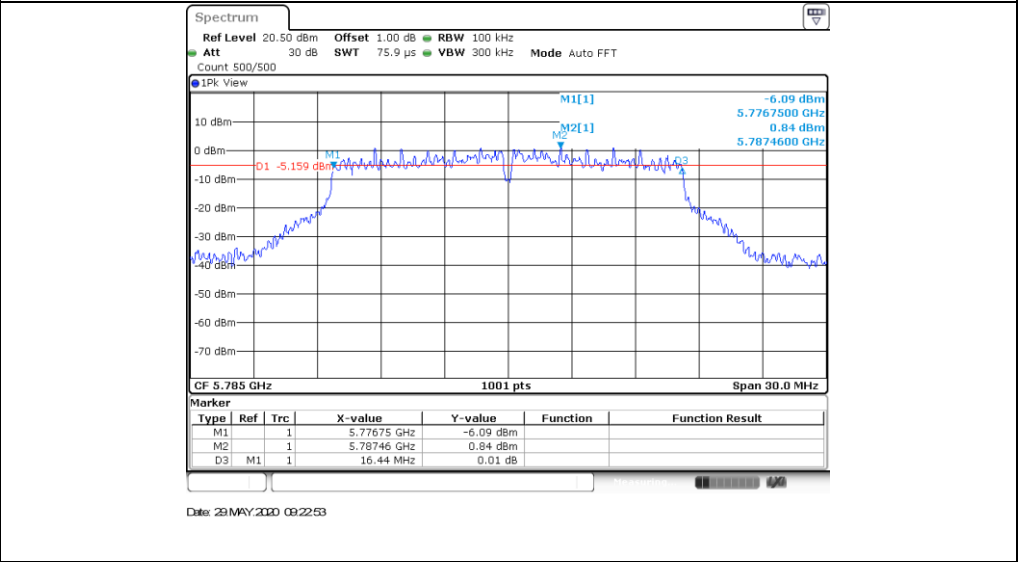


**Band IV** **802.11a**

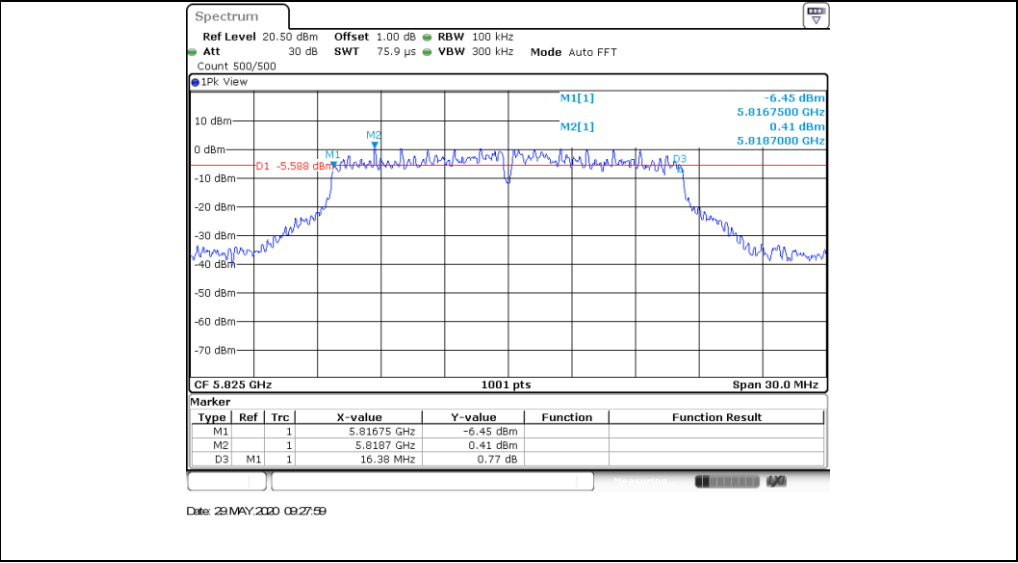
CH<sub>L</sub>



CH<sub>M</sub>



CH<sub>H</sub>

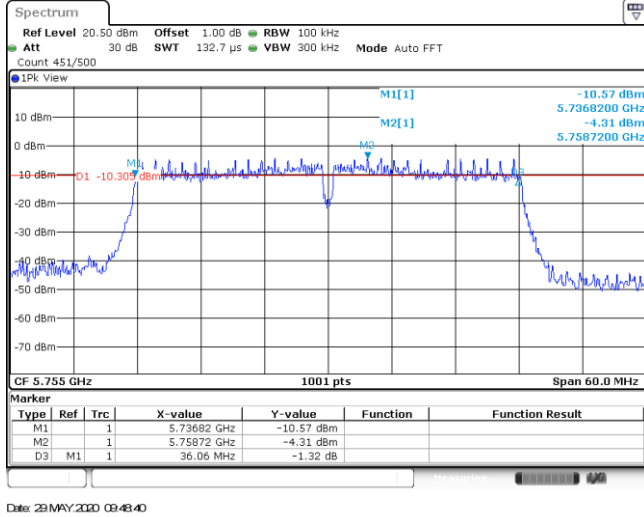




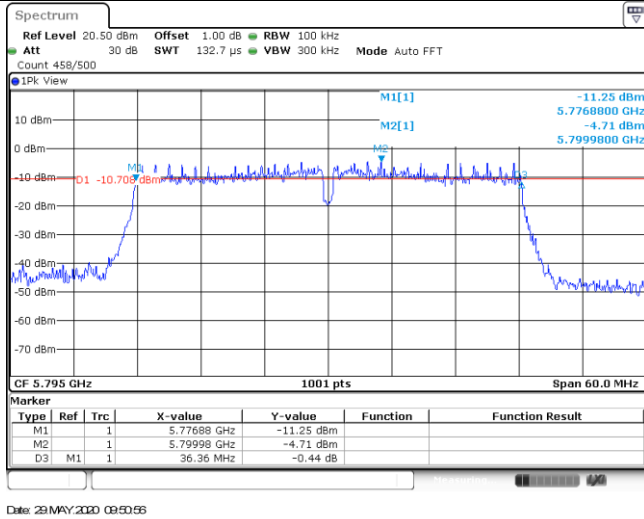
Band IV

802.11ac (HT40)

CH<sub>L</sub>

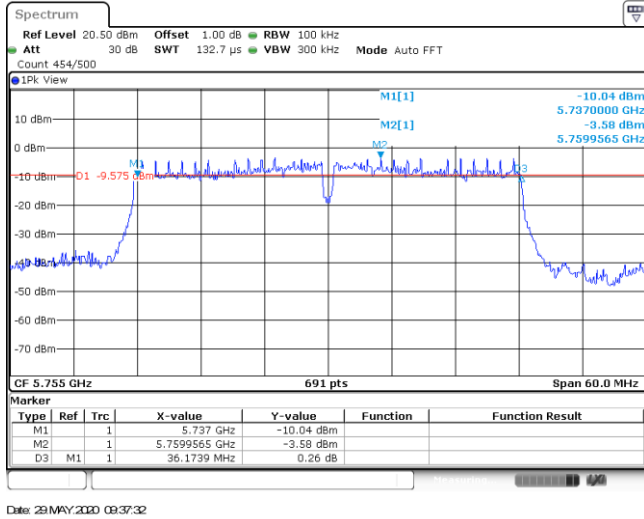


CH<sub>H</sub>

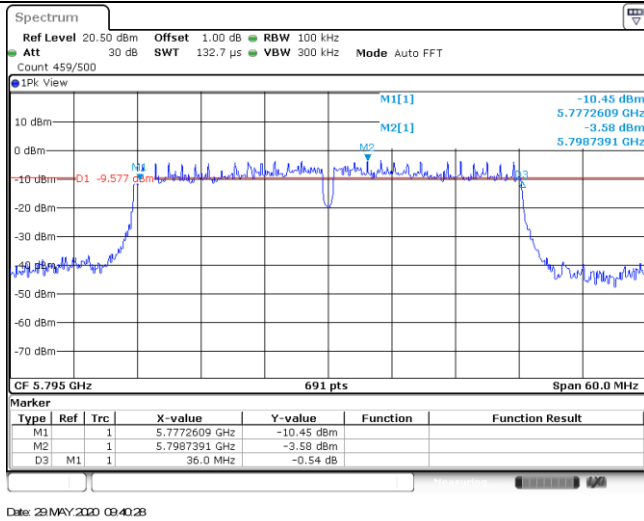


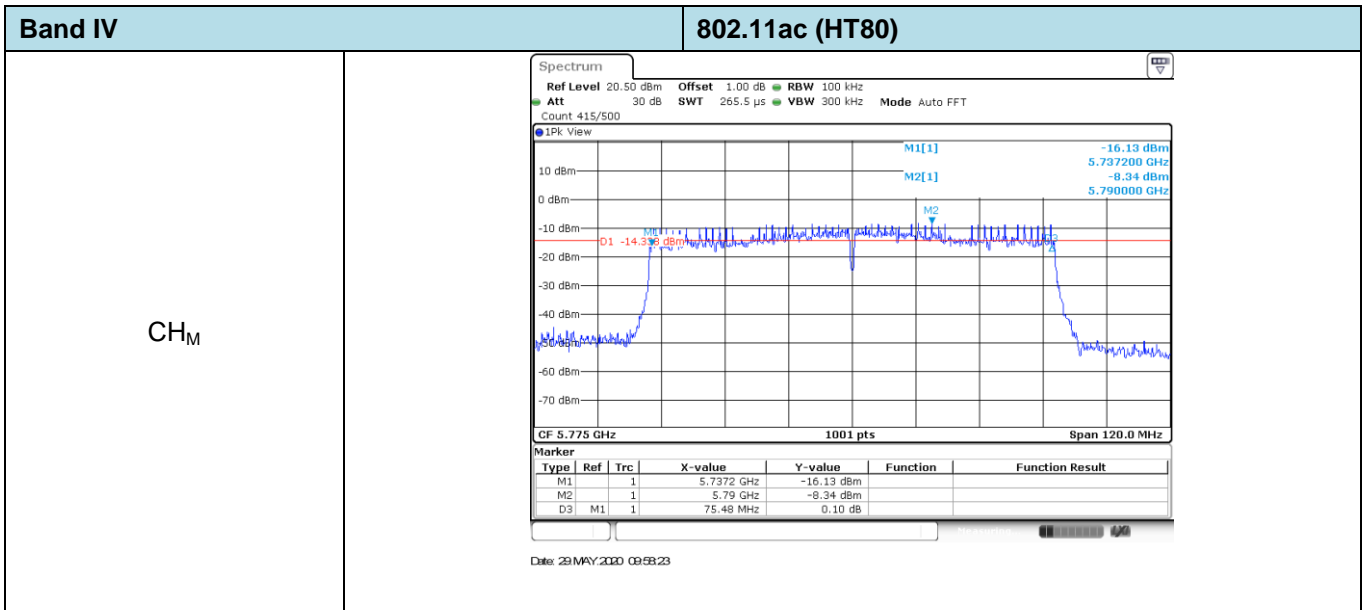
**Band IV** **802.11n (HT40)**

CH<sub>L</sub>



CH<sub>H</sub>





### Appendix F: Band edge

