

# APPENDIX REPORT

Project No.	SHT2005026001EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20050260006	Model No.	SC100
Start test date	2020/5/28	Finish date	2020/5/28
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	<i>William.wang</i>

Appendix clause	Test item	Result
A	Maximum Conducted Output Power	PASS
B	Maximum Power Spectral Density	PASS
C	26 dB Bandwidth	PASS
D	99% Occupy bandwidth	PASS
E	6 dB Bandwidth	PASS
F	Band edge	PASS
G	Frequency stability	PASS

**Appendix A: Maximum Conducted Output Power**

Band	Bandwidth (MHz)	Type	Channel	duty cycle (%)	duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH <sub>L</sub>	77	1.14	16.79	24.00	Pass
			CH <sub>M</sub>	77	1.14	17.27		
			CH <sub>H</sub>	77	1.14	17.10		
		802.11n	CH <sub>L</sub>	61	2.15	16.14	24.00	Pass
			CH <sub>M</sub>	61	2.15	16.50		
			CH <sub>H</sub>	61	2.15	16.77		
	802.11a	CH <sub>L</sub>	63	2.01	16.81	24.00	Pass	
		CH <sub>M</sub>	63	2.01	16.22			
		CH <sub>H</sub>	63	2.01	16.52			
	40	802.11ac	CH <sub>L</sub>	67	1.74	16.38	24.00	Pass
			CH <sub>H</sub>	67	1.74	16.69		
		802.11n	CH <sub>L</sub>	70	1.55	16.81	24.00	Pass
CH <sub>H</sub>			70	1.55	17.16			
80	802.11ac	CH <sub>M</sub>	38	4.20	17.00	24.00	Pass	
II	20	802.11ac	CH <sub>L</sub>	78	1.08	17.04	24.00	Pass
			CH <sub>M</sub>	78	1.08	16.84		
			CH <sub>H</sub>	78	1.08	16.85		
		802.11n	CH <sub>L</sub>	60	2.22	18.18	24.00	Pass
			CH <sub>M</sub>	60	2.22	18.04		
			CH <sub>H</sub>	60	2.22	17.86		
	802.11a	CH <sub>L</sub>	62	2.08	19.17	24.00	Pass	
		CH <sub>M</sub>	62	2.08	18.81			
		CH <sub>H</sub>	62	2.08	18.83			
	40	802.11ac	CH <sub>L</sub>	66	1.80	16.31	24.00	Pass
			CH <sub>H</sub>	66	1.80	16.23		
		802.11n	CH <sub>L</sub>	69	1.61	17.11	24.00	Pass
CH <sub>H</sub>			69	1.61	17.08			
80	802.11ac	CH <sub>M</sub>	38	4.20	16.55	24.00	Pass	

Band	Bandwidth (MHz)	Type	Channel	duty cycle (%)	duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
III	20	802.11ac	CH <sub>L</sub>	77	1.14	17.03	24.00	Pass
			CH <sub>M</sub>	77	1.14	16.02		
			CH <sub>H</sub>	77	1.14	17.36		
		802.11n	CH <sub>L</sub>	61	2.15	18.19	24.00	Pass
			CH <sub>M</sub>	61	2.15	17.26		
			CH <sub>H</sub>	61	2.15	18.40		
		802.11a	CH <sub>L</sub>	63	2.01	19.47	24.00	Pass
			CH <sub>M</sub>	63	2.01	18.42		
			CH <sub>H</sub>	63	2.01	19.76		
	40	802.11ac	CH <sub>L</sub>	70	1.55	16.88	24.00	Pass
			CH <sub>M</sub>	70	1.55	15.49		
			CH <sub>H</sub>	70	1.55	16.42		
		802.11n	CH <sub>L</sub>	77	1.14	17.43	24.00	Pass
			CH <sub>M</sub>	77	1.14	16.48		
			CH <sub>H</sub>	77	1.14	17.28		
80	802.11ac	CH <sub>L</sub>	37	4.32	16.37	24.00	Pass	
		CH <sub>M</sub>	37	4.32	16.60			
		CH <sub>H</sub>	37	4.32	17.48			
IV	20	802.11ac	CH <sub>L</sub>	62	2.08	17.21	30.00	Pass
			CH <sub>M</sub>	62	2.08	17.32		
			CH <sub>H</sub>	62	2.08	16.62		
		802.11n	CH <sub>L</sub>	63	2.01	18.30	30.00	Pass
			CH <sub>M</sub>	63	2.01	18.36		
			CH <sub>H</sub>	63	2.01	17.91		
		802.11a	CH <sub>L</sub>	65	1.87	19.46	30.00	Pass
			CH <sub>M</sub>	65	1.87	19.24		
			CH <sub>H</sub>	65	1.87	18.62		
	40	802.11ac	CH <sub>L</sub>	70	1.55	16.99	30.00	Pass
			CH <sub>H</sub>	70	1.55	16.61		
		802.11n	CH <sub>L</sub>	70	1.55	17.51	30.00	Pass
CH <sub>H</sub>			70	1.55	17.29			
80	802.11ac	CH <sub>M</sub>	37	4.32	17.43	30.00	Pass	

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

**Appendix B: Maximum Power Spectral Density**

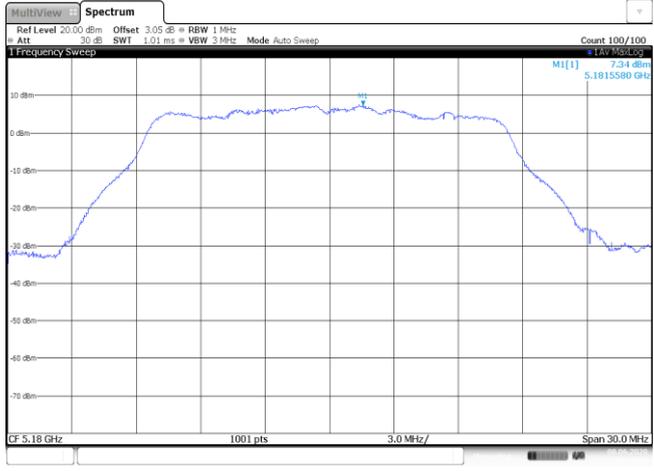
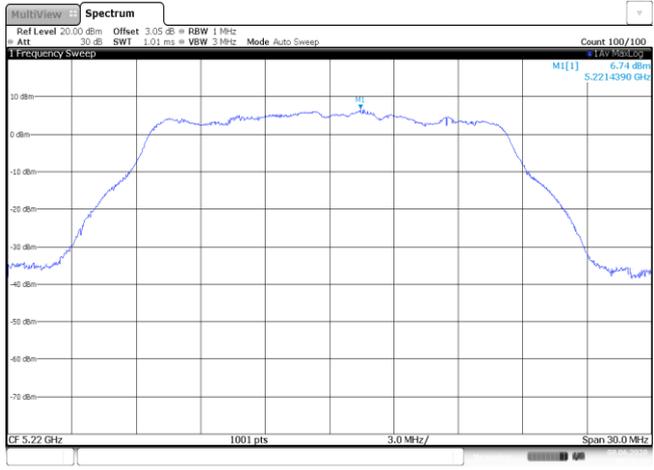
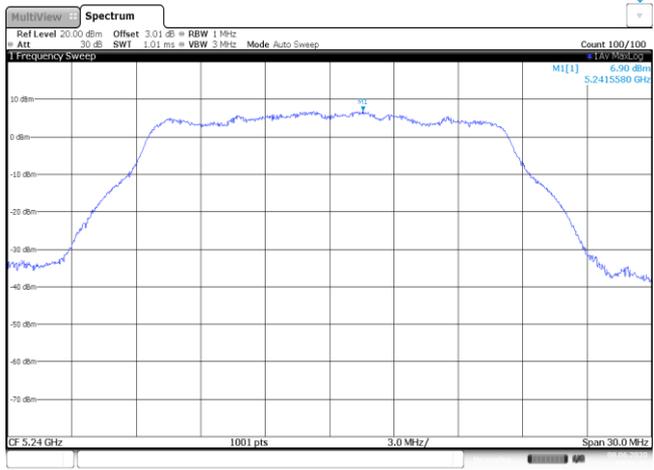
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH <sub>L</sub>	7.06	11.00	Pass
			CH <sub>M</sub>	7.72		
			CH <sub>H</sub>	7.70		
		802.11n	CH <sub>L</sub>	7.30	11.00	Pass
			CH <sub>M</sub>	6.75		
			CH <sub>H</sub>	7.33		
		802.11a	CH <sub>L</sub>	7.34	11.00	Pass
			CH <sub>M</sub>	6.74		
			CH <sub>H</sub>	6.90		
	40	802.11ac	CH <sub>L</sub>	5.13	11.00	Pass
			CH <sub>H</sub>	4.70		
		802.11n	CH <sub>L</sub>	4.86	11.00	Pass
CH <sub>H</sub>			5.18			
80	802.11ac	CH <sub>M</sub>	1.47	11.00	Pass	
II	20	802.11ac	CH <sub>L</sub>	7.58	11.00	Pass
			CH <sub>M</sub>	6.54		
			CH <sub>H</sub>	6.88		
		802.11n	CH <sub>L</sub>	8.22	11.00	Pass
			CH <sub>M</sub>	8.05		
			CH <sub>H</sub>	8.11		
		802.11a	CH <sub>L</sub>	9.13	11.00	Pass
			CH <sub>M</sub>	8.77		
			CH <sub>H</sub>	9.35		
	40	802.11ac	CH <sub>L</sub>	3.73	11.00	Pass
			CH <sub>H</sub>	4.05		
		802.11n	CH <sub>L</sub>	4.27	11.00	Pass
CH <sub>H</sub>			3.73			
80	802.11ac	CH <sub>M</sub>	1.29	11.00	Pass	

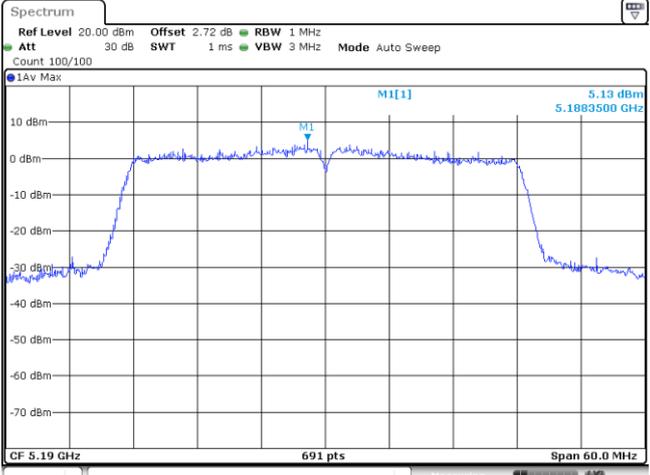
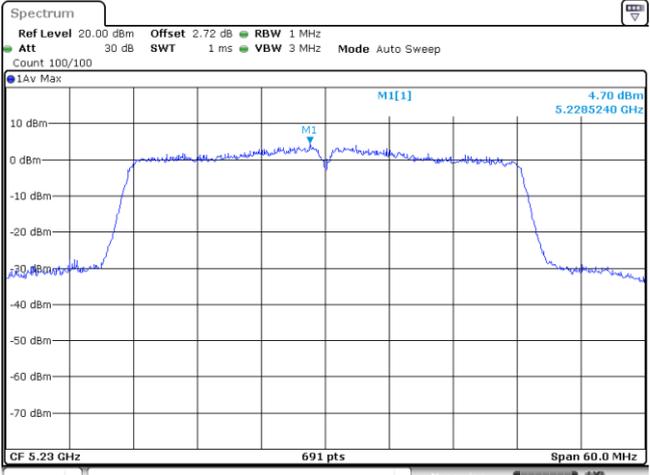
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
III	20	802.11ac	CH <sub>L</sub>	7.52	11.00	Pass
			CH <sub>M</sub>	6.61		
			CH <sub>H</sub>	8.50		
		802.11n	CH <sub>L</sub>	8.51	11.00	Pass
			CH <sub>M</sub>	7.84		
			CH <sub>H</sub>	9.62		
		802.11a	CH <sub>L</sub>	9.89	11.00	Pass
			CH <sub>M</sub>	9.04		
			CH <sub>H</sub>	10.16		
	40	802.11ac	CH <sub>L</sub>	3.58	11.00	Pass
			CH <sub>M</sub>	3.80		
			CH <sub>H</sub>	3.80		
		802.11n	CH <sub>L</sub>	5.99	11.00	Pass
			CH <sub>M</sub>	4.44		
			CH <sub>H</sub>	5.03		
80	802.11ac	CH <sub>L</sub>	0.76	11.00	Pass	
		CH <sub>M</sub>	1.94			
		CH <sub>H</sub>	1.89			
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
IV	20	802.11ac	CH <sub>L</sub>	5.54	30.00	Pass
			CH <sub>M</sub>	6.60		
			CH <sub>H</sub>	5.24		
		802.11n	CH <sub>L</sub>	7.04	30.00	Pass
			CH <sub>M</sub>	7.39		
			CH <sub>H</sub>	6.44		
		802.11a	CH <sub>L</sub>	7.78	30.00	Pass
			CH <sub>M</sub>	8.06		
			CH <sub>H</sub>	7.31		
	40	802.11ac	CH <sub>L</sub>	3.16	30.00	Pass
			CH <sub>H</sub>	2.18		
		802.11n	CH <sub>L</sub>	4.24	30.00	Pass
			CH <sub>H</sub>	3.46		
	80	802.11ac	CH <sub>M</sub>	1.04	30.00	Pass

Test plot as follows:

Band I		802.11ac (HT20)
CH <sub>L</sub>	<p><b>Spectrum</b>                      Ref Level 20.00 dBm Offset 2.11 dB RBW 1 MHz                      Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep                      Count 100/100                      1Av Max                      M1[1] 7.06 dBm                      5.1790450 GHz                      CF 5.18 GHz 691 pts Span 30.0 MHz                      Date: 28 MAY 2020 13:32:03</p>	
CH <sub>M</sub>	<p><b>Spectrum</b>                      Ref Level 20.00 dBm Offset 2.15 dB RBW 1 MHz                      Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep                      Count 100/100                      1Av Max                      M1[1] 7.72 dBm                      5.2192190 GHz                      CF 5.22 GHz 691 pts Span 30.0 MHz                      Date: 28 MAY 2020 13:34:13</p>	
CH <sub>H</sub>	<p><b>Spectrum</b>                      Ref Level 20.00 dBm Offset 2.10 dB RBW 1 MHz                      Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep                      Count 100/100                      1Av Max                      M1[1] 7.70 dBm                      5.2395660 GHz                      CF 5.24 GHz 691 pts Span 30.0 MHz                      Date: 28 MAY 2020 13:36:00</p>	

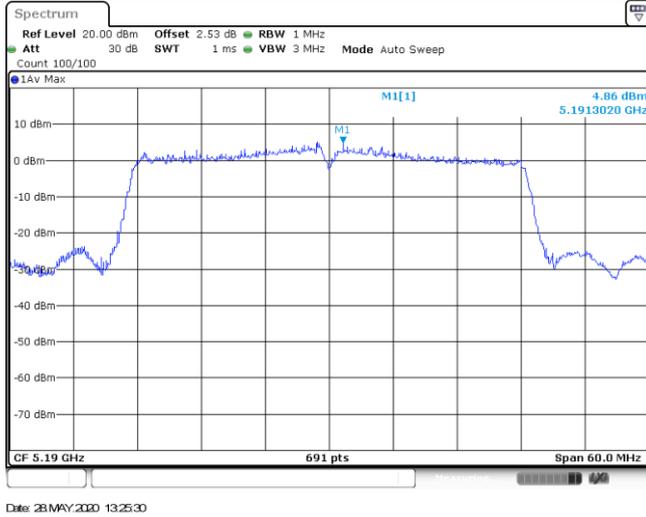
Band I	802.11n (HT20)
CH <sub>L</sub>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 3.16 dB RBW 1 MHz          Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep          Count 100/100          1 Frequency Sweep          M1[1] 7.26 dBm          5.1790410 GHz          CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 8.JUN.2020 00:25:03</p>
CH <sub>M</sub>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 3.16 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] 6.75 dBm          5.2172430 GHz          CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 8.JUN.2020 00:26:26</p>
CH <sub>H</sub>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 3.16 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] 7.33 dBm          5.2389810 GHz          CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 8.JUN.2020 00:28:33</p>

Band I		802.11a
CH <sub>L</sub>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 3.05 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] 7.24 dBm 5.1815280 GHz CF 5.18 GHz 1001 pts 3.0 MHz/pt Span 30.0 MHz Date: 8.JUN.2020 00:18:06</p>	
CH <sub>M</sub>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 3.05 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] 6.74 dBm 5.2214290 GHz CF 5.22 GHz 1001 pts 3.0 MHz/pt Span 30.0 MHz Date: 8.JUN.2020 00:20:20</p>	
CH <sub>H</sub>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 3.01 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] 6.90 dBm 5.2415590 GHz CF 5.24 GHz 1001 pts 3.0 MHz/pt Span 30.0 MHz Date: 8.JUN.2020 00:21:52</p>	

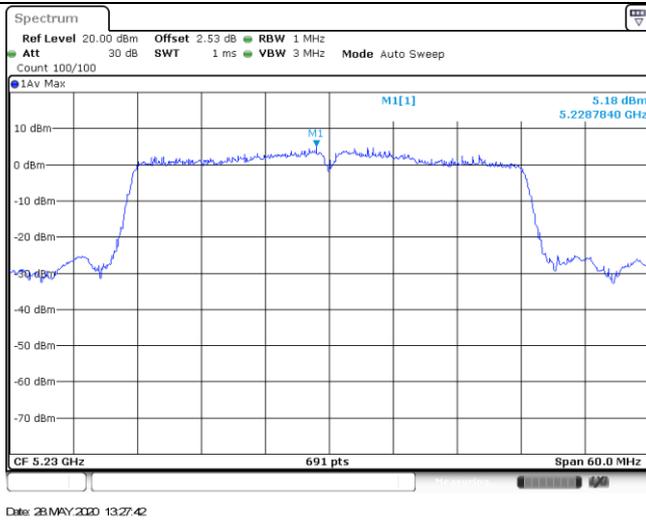
Band I		802.11ac (HT40)
CH <sub>L</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 2.72 dB    RBW 1 MHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>IAV Max</p> <p>5.13 dBm 5.1983500 GHz</p> <p>CF 5.19 GHz    691 pts    Span 60.0 MHz</p> <p>Date: 28MAY.2020 13:38:26</p>	
CH <sub>H</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 2.72 dB    RBW 1 MHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>IAV Max</p> <p>4.70 dBm 5.2285240 GHz</p> <p>CF 5.23 GHz    691 pts    Span 60.0 MHz</p> <p>Date: 28MAY.2020 13:41:01</p>	

**Band I** **802.11n (HT40)**

CH<sub>L</sub>

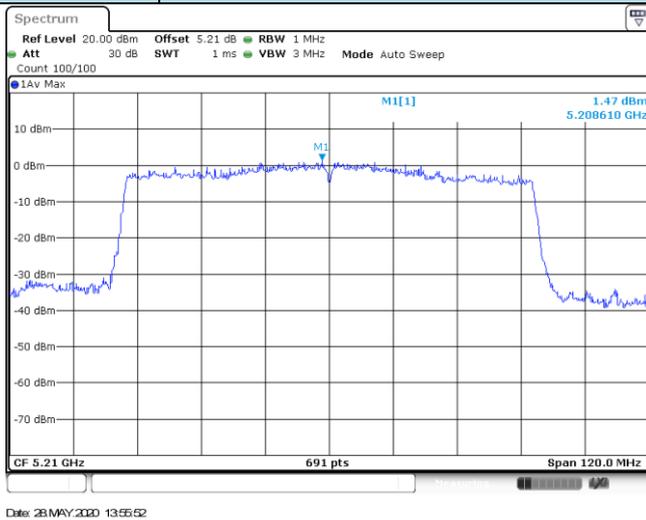


CH<sub>H</sub>

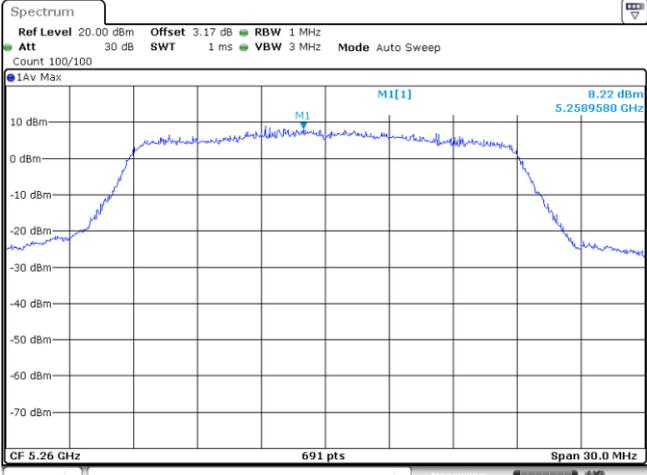
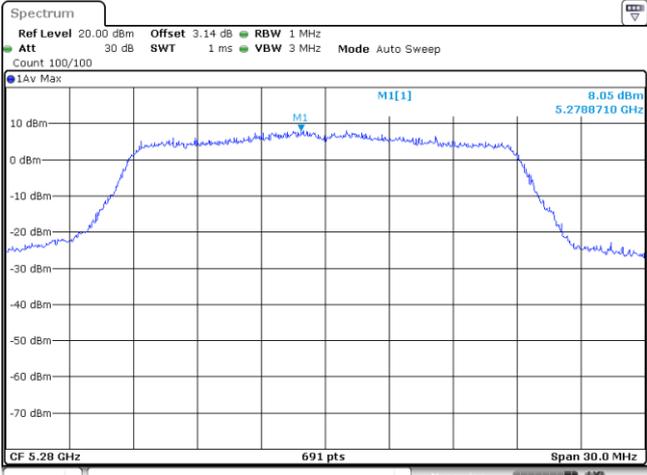
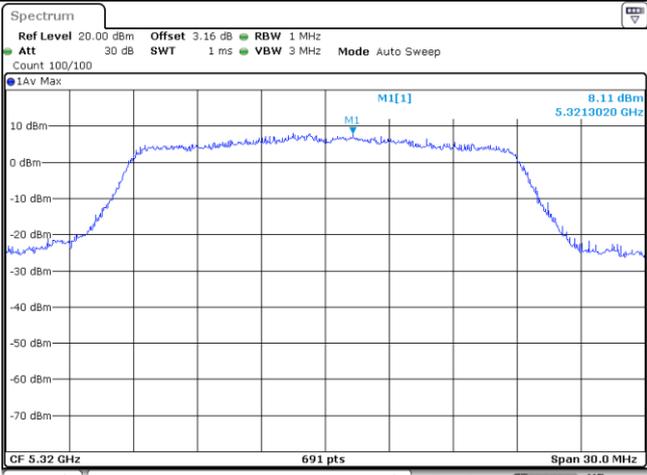


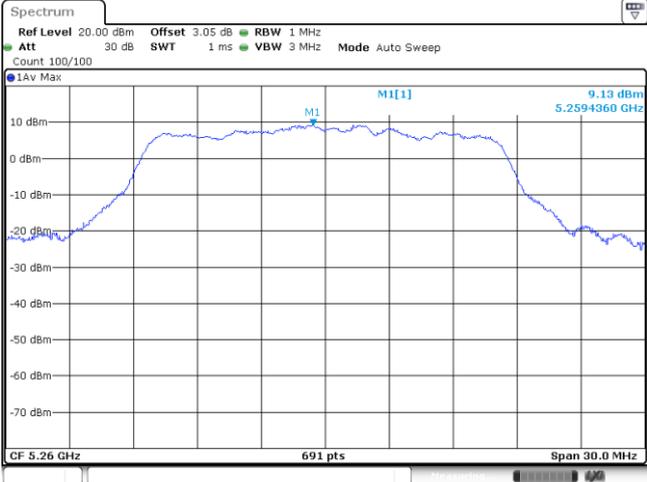
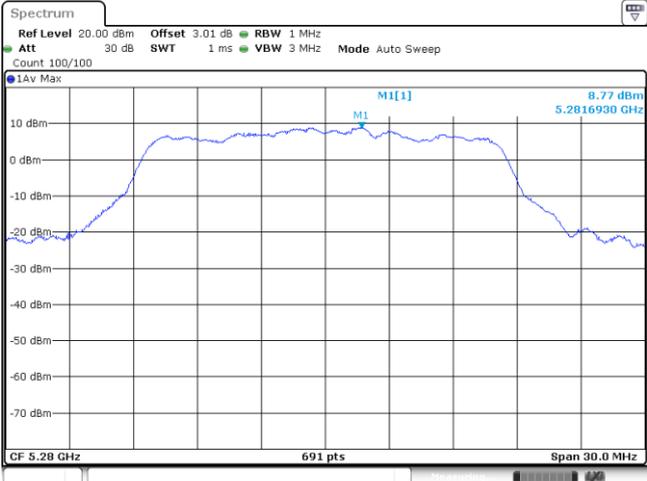
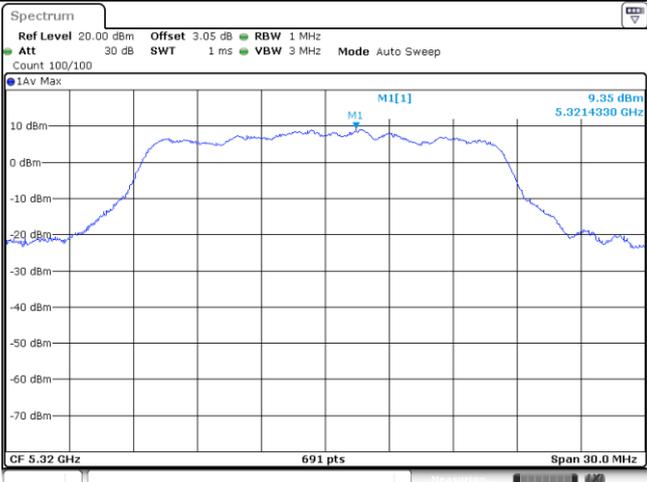
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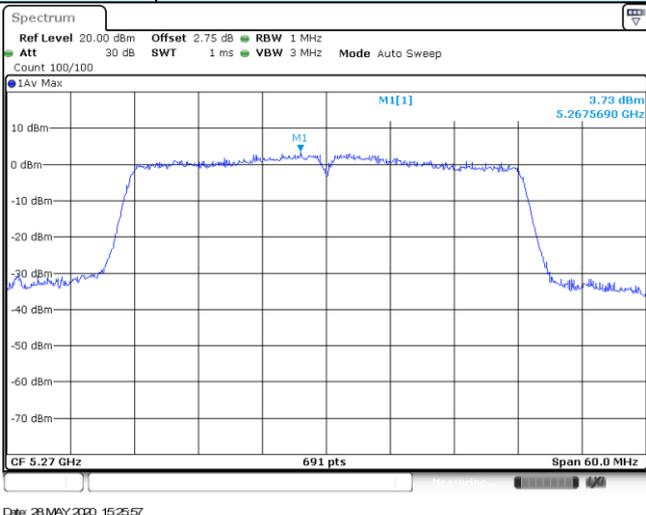
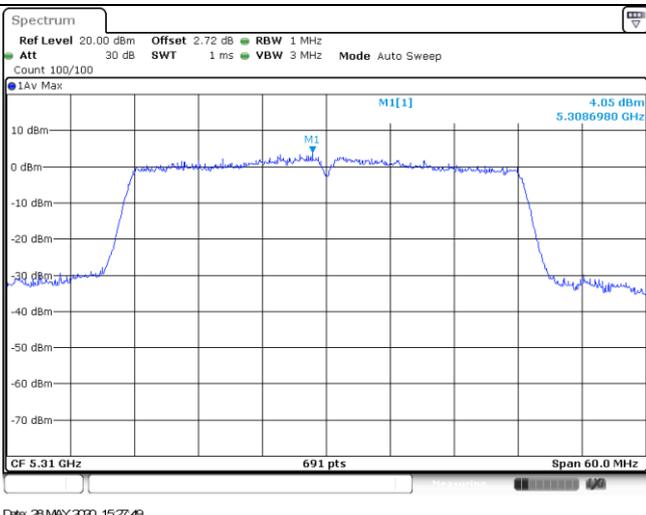
CH<sub>M</sub>



Band II		802.11ac (HT20)
CH <sub>L</sub>	<p>                     Spectrum                      Ref Level 20.00 dBm    Offset 2.10 dB    RBW 1 MHz                      Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep                      Count 100/100                      IAv Max                      7.58 dBm                      5.2592190 GHz                      CF 5.26 GHz    691 pts    Span 30.0 MHz                      Date: 28 MAY 2020 15:16:38                 </p>	
CH <sub>M</sub>	<p>                     Spectrum                      Ref Level 20.00 dBm    Offset 2.12 dB    RBW 1 MHz                      Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep                      Count 100/100                      IAv Max                      6.54 dBm                      5.2774380 GHz                      CF 5.28 GHz    691 pts    Span 30.0 MHz                      Date: 28 MAY 2020 15:19:51                 </p>	
CH <sub>H</sub>	<p>                     Spectrum                      Ref Level 20.00 dBm    Offset 2.10 dB    RBW 1 MHz                      Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep                      Count 100/100                      IAv Max                      6.88 dBm                      5.3208250 GHz                      CF 5.32 GHz    691 pts    Span 30.0 MHz                      Date: 28 MAY 2020 15:22:07                 </p>	

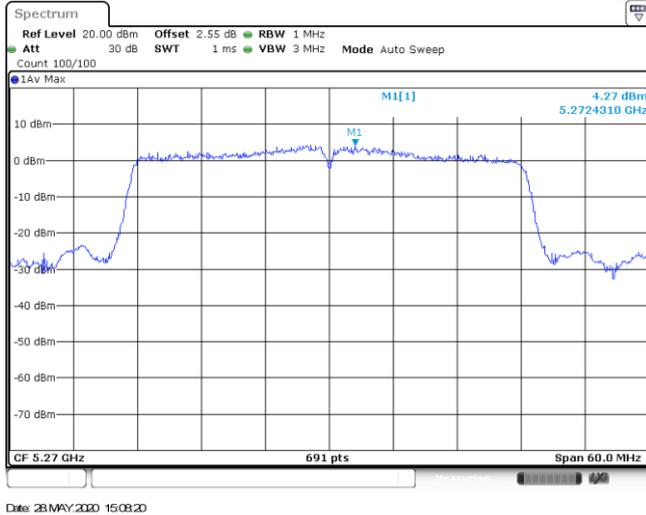
Band II		802.11n (HT20)
CH <sub>L</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.17 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100 IAv Max M1 M1[1] 8.22 dBm 5.2589580 GHz CF 5.26 GHz 691 pts Span 30.0 MHz Date: 28 MAY 2020 14:59:30</p>	
CH <sub>M</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.14 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100 IAv Max M1 M1[1] 8.05 dBm 5.2788710 GHz CF 5.28 GHz 691 pts Span 30.0 MHz Date: 28 MAY 2020 15:01:20</p>	
CH <sub>H</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.16 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100 IAv Max M1 M1[1] 8.11 dBm 5.3213020 GHz CF 5.32 GHz 691 pts Span 30.0 MHz Date: 28 MAY 2020 15:03:17</p>	

Band II		802.11a
CH <sub>L</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.05 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100 IAv Max</p> <p>9.13 dBm 5.2594360 GHz</p> <p>CF 5.26 GHz 691 pts Span 30.0 MHz</p> <p>Date: 28 MAY 2020 14:42:35</p>	
CH <sub>M</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.01 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100 IAv Max</p> <p>8.77 dBm 5.2816930 GHz</p> <p>CF 5.28 GHz 691 pts Span 30.0 MHz</p> <p>Date: 28 MAY 2020 14:44:33</p>	
CH <sub>H</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.05 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100 IAv Max</p> <p>9.35 dBm 5.3214330 GHz</p> <p>CF 5.32 GHz 691 pts Span 30.0 MHz</p> <p>Date: 28 MAY 2020 14:47:54</p>	

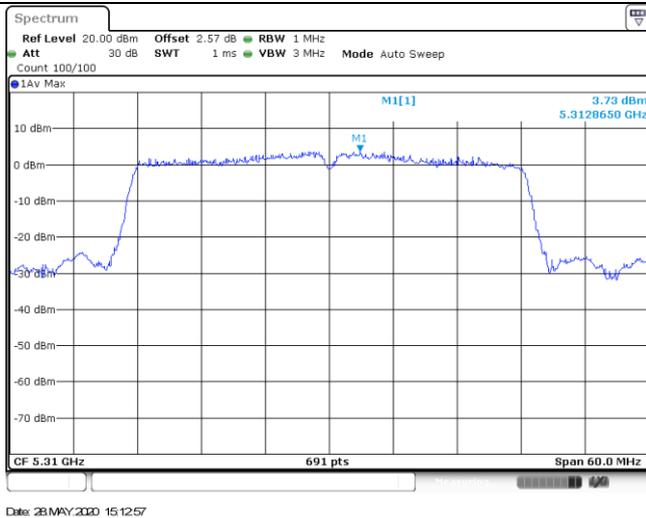
Band II		802.11ac (HT40)
CH <sub>L</sub>		
CH <sub>H</sub>		

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

CH<sub>L</sub>

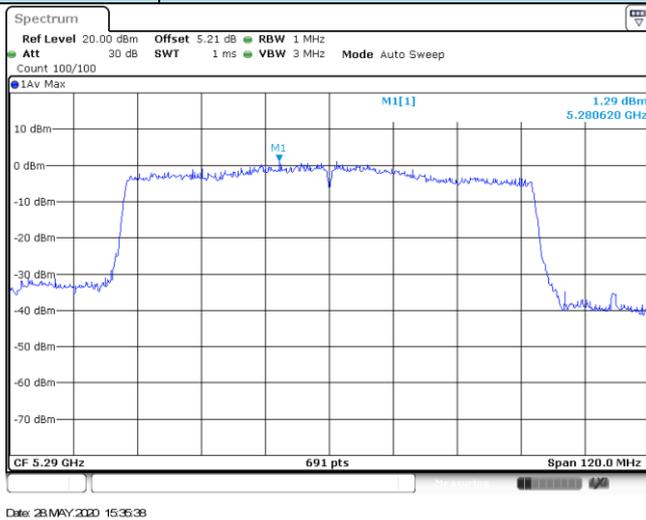


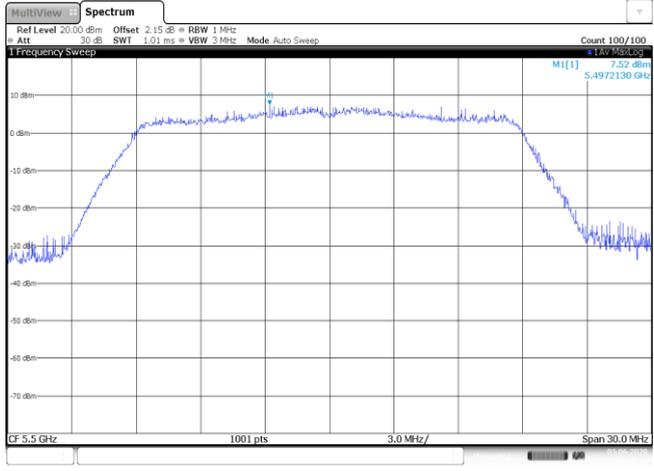
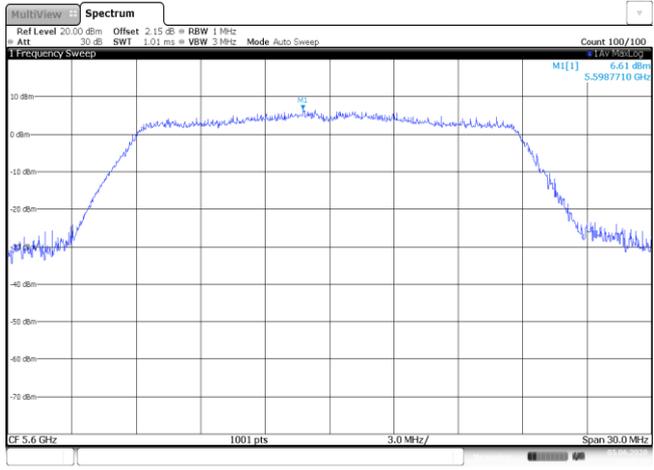
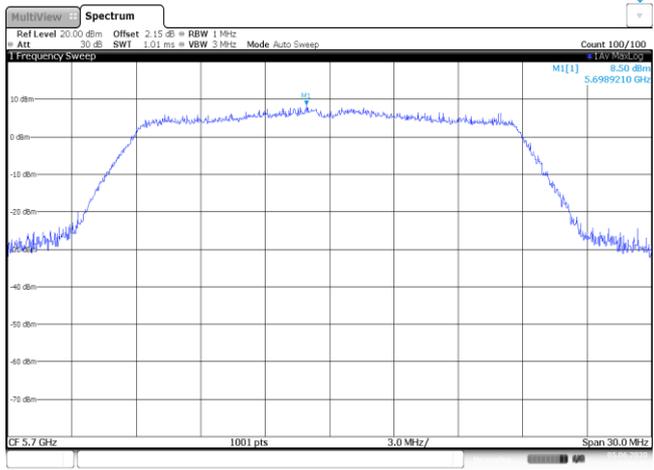
CH<sub>H</sub>

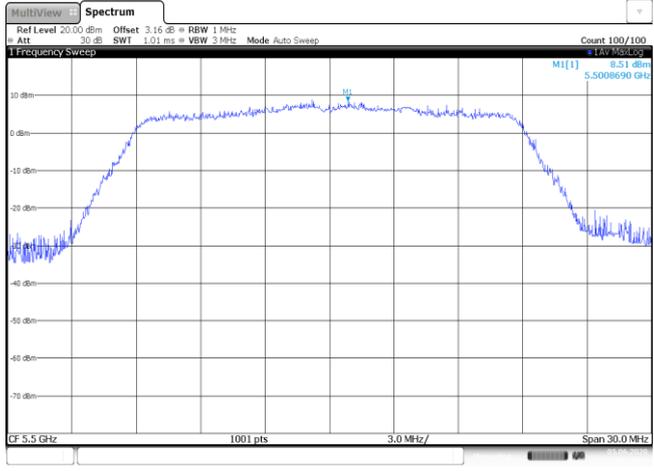
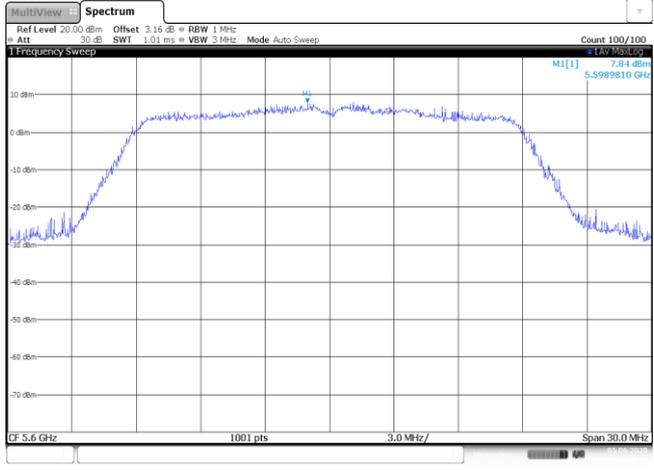
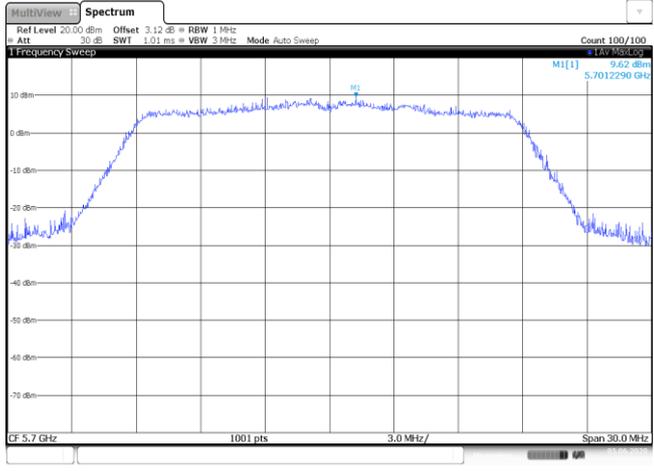


**Band II** **802.11ac (HT80)**

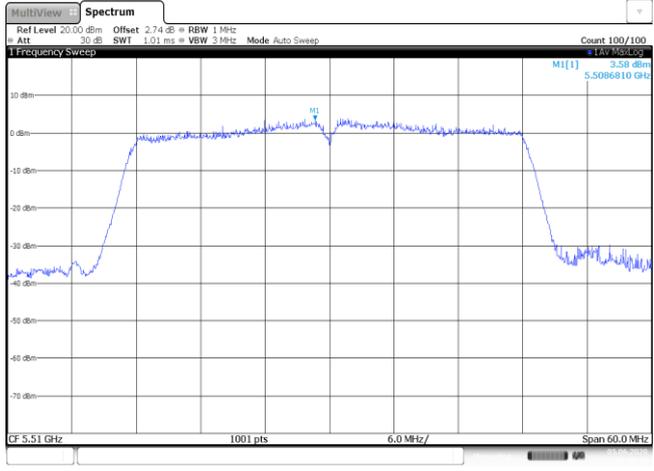
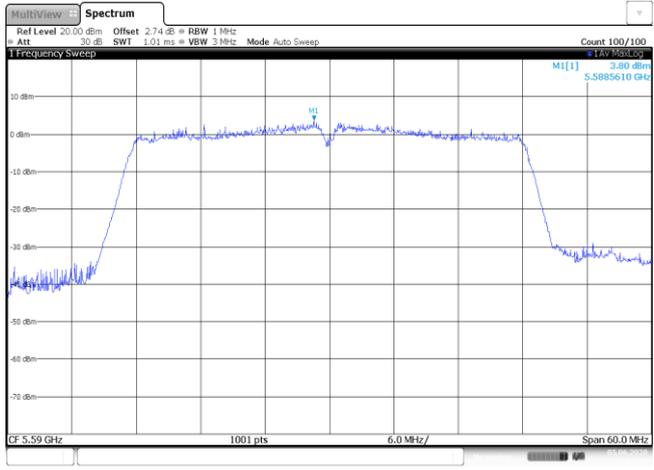
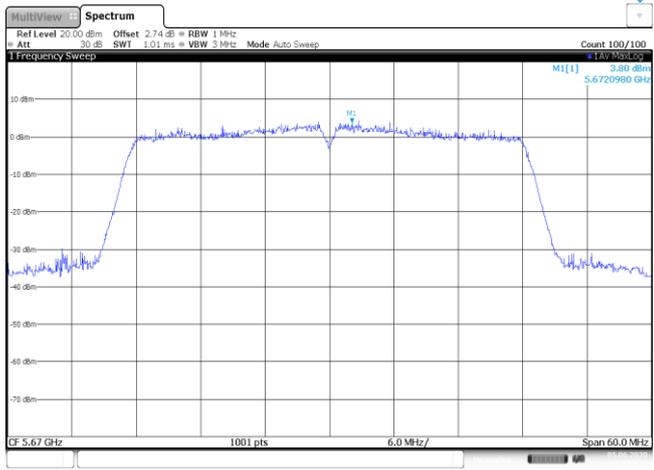
CH<sub>M</sub>



Band III		802.11ac (HT20)
CH <sub>L</sub>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 2.15 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] 7.52 dBm 5.4972130 GHz CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 5 JUN 2020 16:49:47</p>	
CH <sub>M</sub>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 2.15 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] 6.61 dBm 5.5987710 GHz CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 5 JUN 2020 16:52:41</p>	
CH <sub>H</sub>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 2.15 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] 6.50 dBm 5.6989210 GHz CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 5 JUN 2020 16:55:26</p>	

Band III	802.11n (HT20)
CH <sub>L</sub>	 <p>                     MultiView Spectrum                      Ref Level 20.00 dBm Offset 3.16 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] 8.51 dBm                      5.508690 GHz                      CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz                      Date: 5 JUN 2020 16:29:02                 </p>
CH <sub>M</sub>	 <p>                     MultiView Spectrum                      Ref Level 20.00 dBm Offset 3.16 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] 7.81 dBm                      5.5989810 GHz                      CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz                      Date: 5 JUN 2020 16:32:19                 </p>
CH <sub>H</sub>	 <p>                     MultiView Spectrum                      Ref Level 20.00 dBm Offset 3.12 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] 9.62 dBm                      5.7012290 GHz                      CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz                      Date: 5 JUN 2020 16:35:08                 </p>

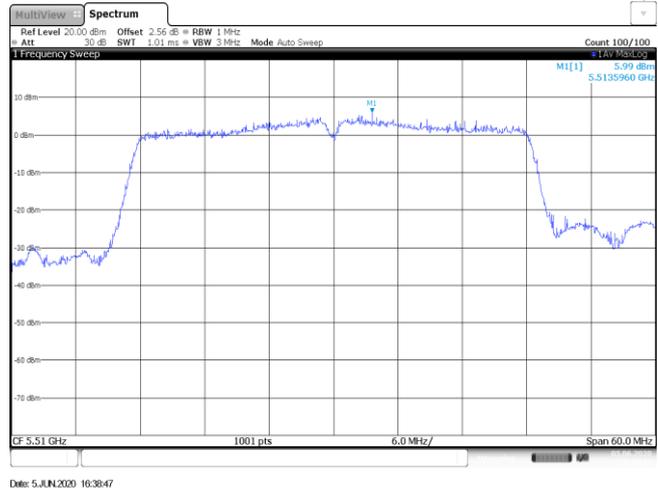
Band III		802.11a
CH <sub>L</sub>	<p>MultiView Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.03 dB RBW 1 MHz Count 100/100          Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep</p> <p>1 Frequency Sweep</p> <p>M1 9.89 dBm 5.5017380 GHz</p> <p>CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 5 JUN 2020 16:15:01</p>	
CH <sub>M</sub>	<p>MultiView Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.01 dB RBW 1 MHz Count 100/100          Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep</p> <p>1 Frequency Sweep</p> <p>M1 9.04 dBm 5.6016780 GHz</p> <p>CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 5 JUN 2020 16:18:59</p>	
CH <sub>H</sub>	<p>MultiView Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.05 dB RBW 1 MHz Count 100/100          Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep</p> <p>1 Frequency Sweep</p> <p>M1 10.16 dBm 5.7013790 GHz</p> <p>CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 5 JUN 2020 16:22:16</p>	

Band III		802.11ac (HT40)
CH <sub>L</sub>	 <p>CF 5.51 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz</p> <p>Date: 5 JUN 2020 16:58:38</p>	
CH <sub>M</sub>	 <p>CF 5.59 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz</p> <p>Date: 5 JUN 2020 17:01:26</p>	
CH <sub>H</sub>	 <p>CF 5.67 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz</p> <p>Date: 5 JUN 2020 17:03:32</p>	

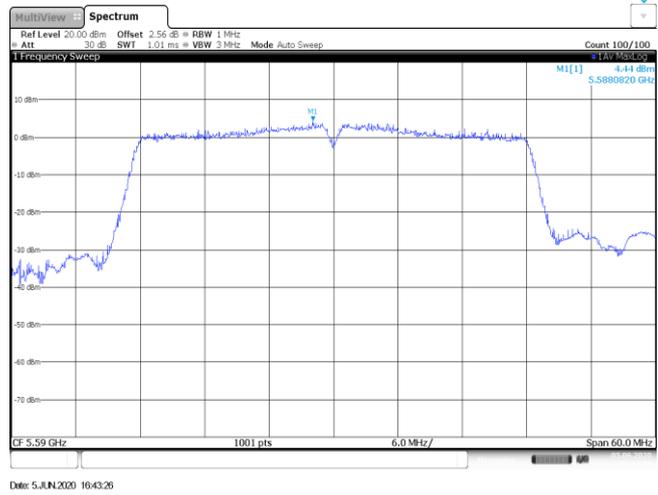
Band III

802.11n (HT40)

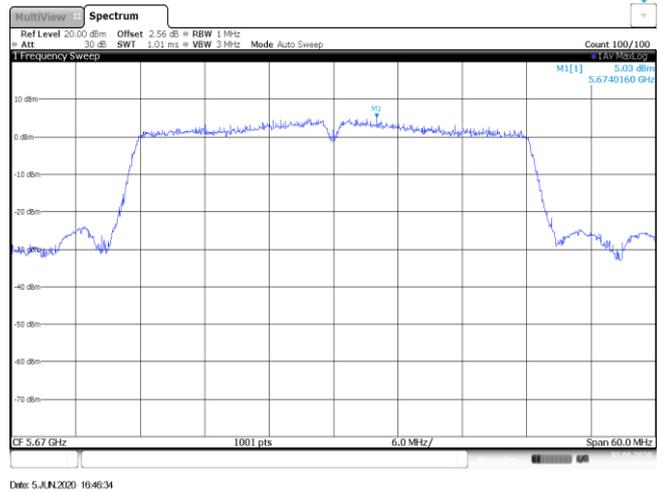
CH<sub>L</sub>



CH<sub>M</sub>



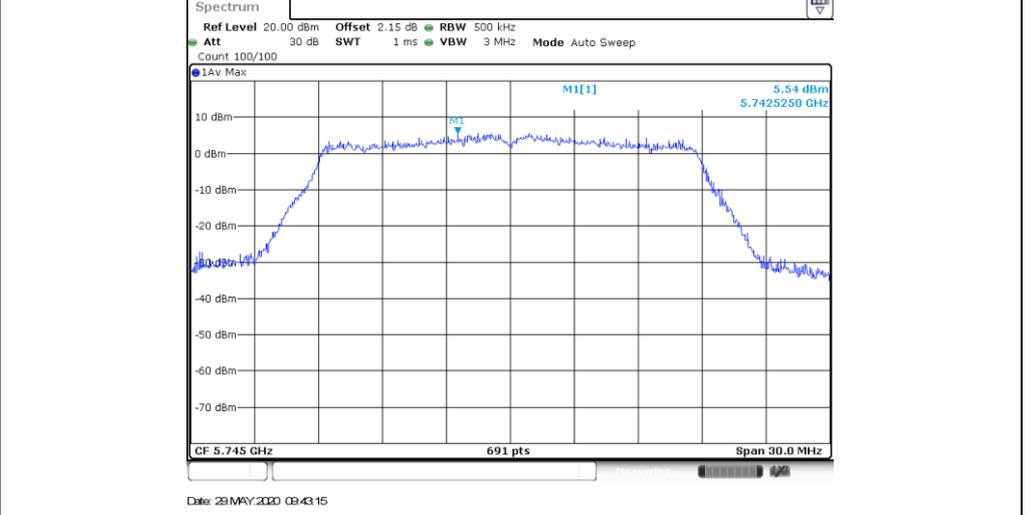
CH<sub>H</sub>



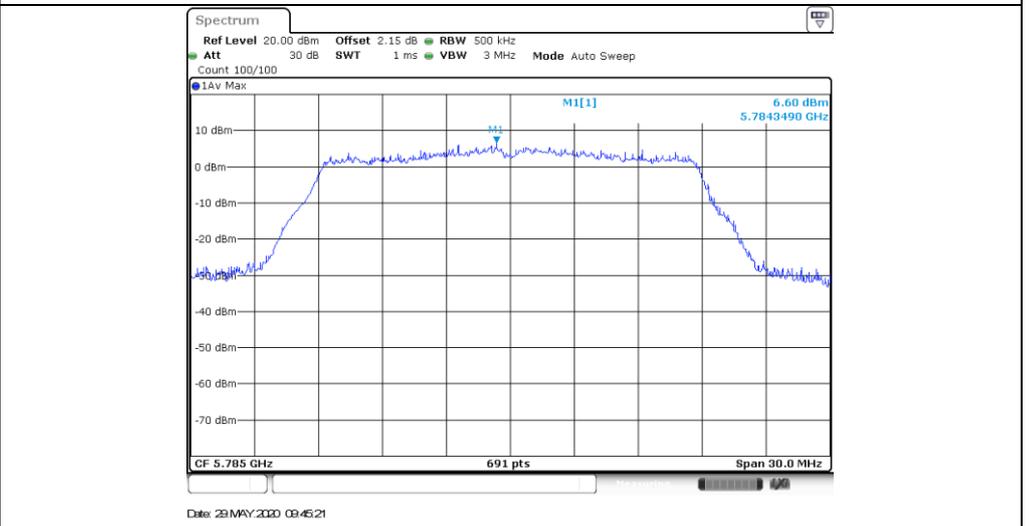
Band III		802.11ac (HT80)
CH <sub>L</sub>	<p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 5.21 dB    RBW 1 MHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>1Av Max</p> <p>M1[1] 0.76 dBm 5.525480 GHz</p> <p>CF 5.53 GHz    691 pts    Span 120.0 MHz</p> <p>Date: 28.MAY.2020 16:40:17</p>	
CH <sub>M</sub>	<p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 5.21 dB    RBW 1 MHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>1Av Max</p> <p>M1[1] 1.94 dBm 5.608260 GHz</p> <p>CF 5.61 GHz    691 pts    Span 120.0 MHz</p> <p>Date: 28.MAY.2020 16:42:38</p>	
CH <sub>H</sub>	<p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 5.17 dB    RBW 1 MHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>1Av Max</p> <p>M1[1] 1.09 dBm 5.691390 GHz</p> <p>CF 5.69 GHz    691 pts    Span 120.0 MHz</p> <p>Date: 28.MAY.2020 16:44:25</p>	

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

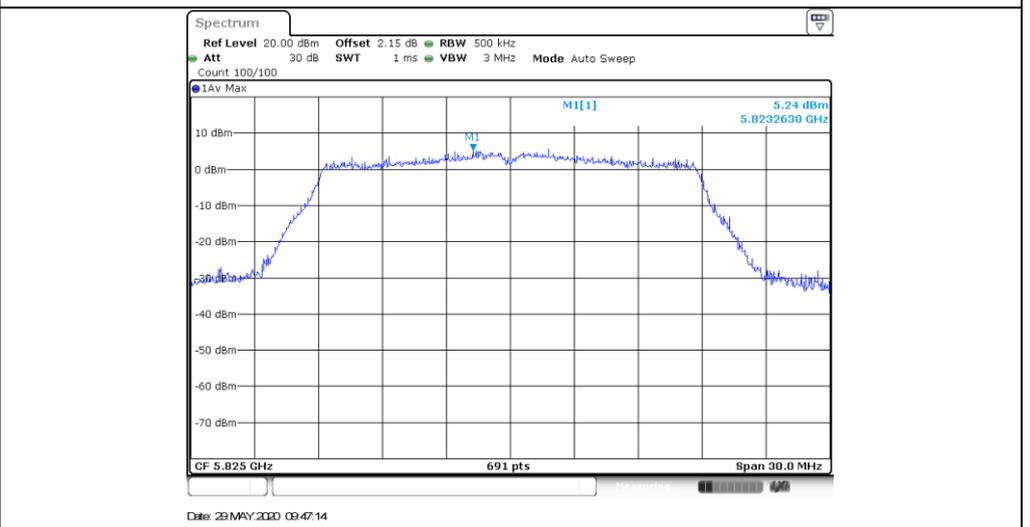
CH<sub>L</sub>



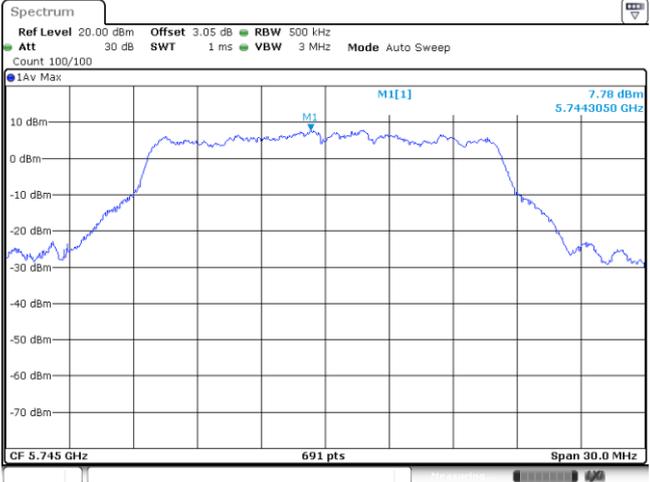
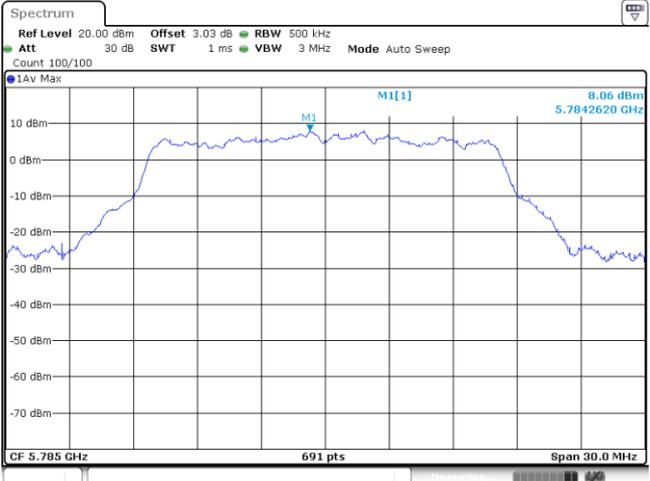
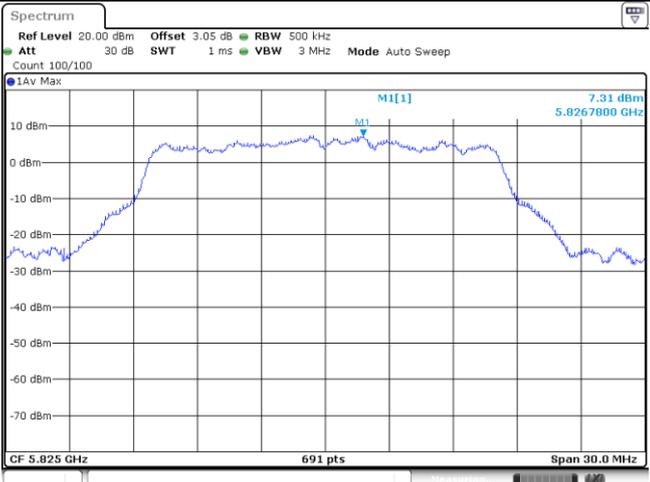
CH<sub>M</sub>

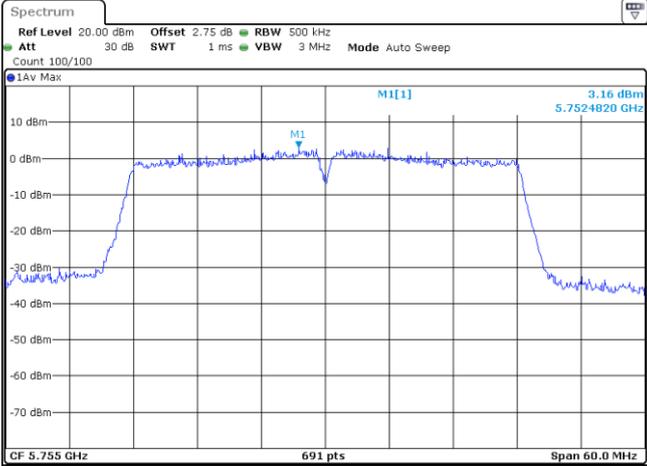
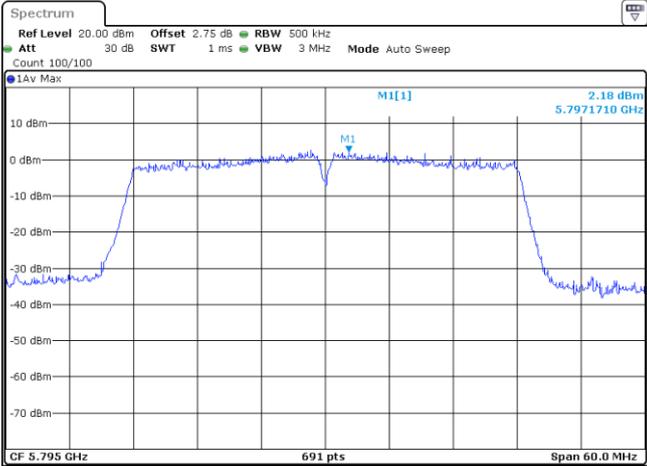


CH<sub>H</sub>



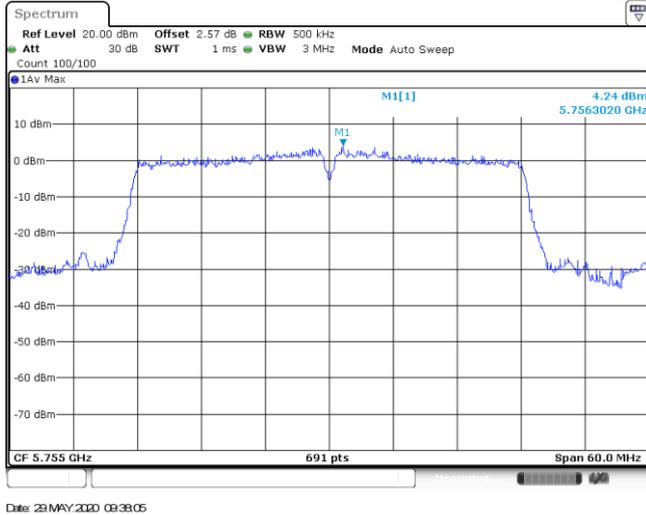
Band IV		802.11n (HT20)
CH <sub>L</sub>	<p>Ref Level 20.00 dBm    Offset 3.15 dB    RBW 500 kHz            Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep            Count 100/100            IAv Max            7.04 dBm            5.7462160 GHz            CF 5.745 GHz    691 pts    Span 30.0 MHz            Date: 29MAY.2020 09:31:26</p>	
CH <sub>M</sub>	<p>Ref Level 20.00 dBm    Offset 3.16 dB    RBW 500 kHz            Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep            Count 100/100            IAv Max            7.39 dBm            5.7863460 GHz            CF 5.785 GHz    691 pts    Span 30.0 MHz            Date: 29MAY.2020 09:33:49</p>	
CH <sub>H</sub>	<p>Ref Level 20.00 dBm    Offset 3.16 dB    RBW 500 kHz            Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep            Count 100/100            IAv Max            6.44 dBm            5.8233070 GHz            CF 5.825 GHz    691 pts    Span 30.0 MHz            Date: 29MAY.2020 09:35:42</p>	

Band IV		802.11a
CH <sub>L</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.05 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100</p> <p>IAv Max</p> <p>7.78 dBm 5.7443050 GHz</p> <p>CF 5.745 GHz 691 pts Span 30.0 MHz</p> <p>Date: 29 MAY 2020 09:19:53</p>	
CH <sub>M</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.03 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100</p> <p>IAv Max</p> <p>8.06 dBm 5.7842620 GHz</p> <p>CF 5.785 GHz 691 pts Span 30.0 MHz</p> <p>Date: 29 MAY 2020 09:23:25</p>	
CH <sub>H</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 3.05 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 100/100</p> <p>IAv Max</p> <p>7.31 dBm 5.8267800 GHz</p> <p>CF 5.825 GHz 691 pts Span 30.0 MHz</p> <p>Date: 29 MAY 2020 09:28:31</p>	

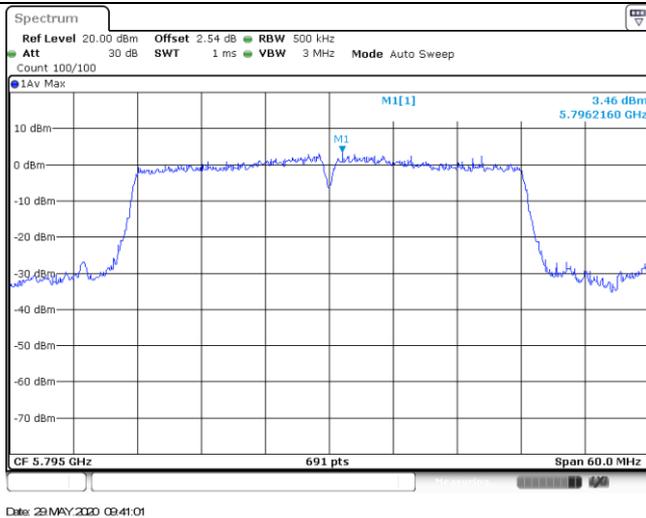
Band IV		802.11ac (HT40)
CH <sub>L</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 2.75 dB    RBW 500 kHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>IA V Max</p> <p>M1</p> <p>M1[1]    3.16 dBm 5.7524820 GHz</p> <p>CF 5.755 GHz    691 pts    Span 60.0 MHz</p> <p>Date: 29 MAY 2020 09:48:12</p>	
CH <sub>H</sub>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 2.75 dB    RBW 500 kHz Att 30 dB    SWT 1 ms    VBW 3 MHz    Mode Auto Sweep Count 100/100</p> <p>IA V Max</p> <p>M1</p> <p>M1[1]    2.18 dBm 5.7971710 GHz</p> <p>CF 5.795 GHz    691 pts    Span 60.0 MHz</p> <p>Date: 29 MAY 2020 09:51:28</p>	

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

CH<sub>L</sub>

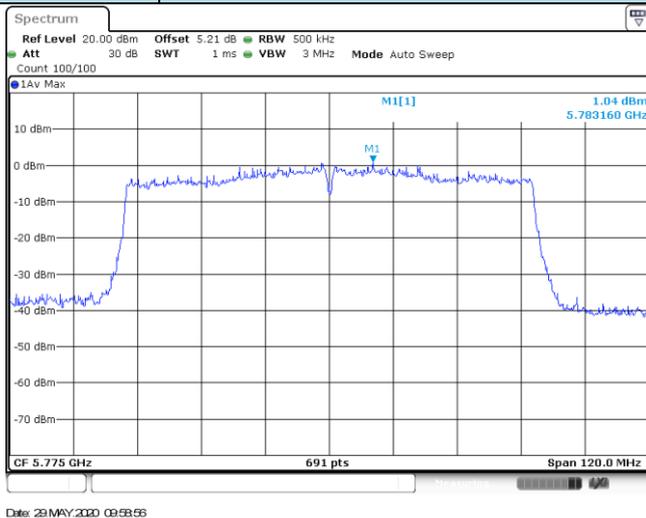


CH<sub>H</sub>



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

CH<sub>M</sub>

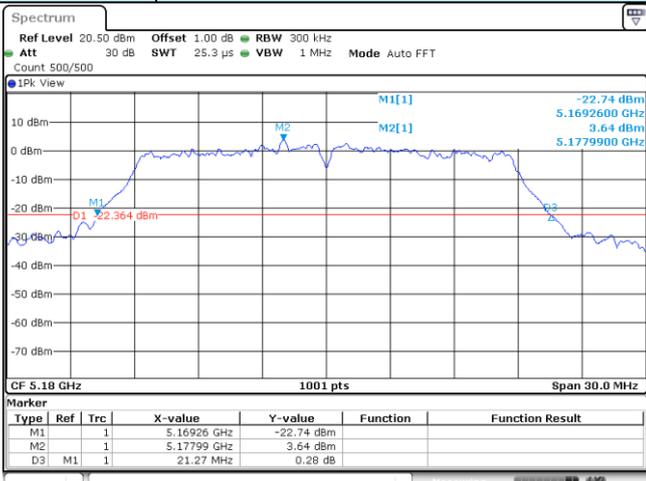
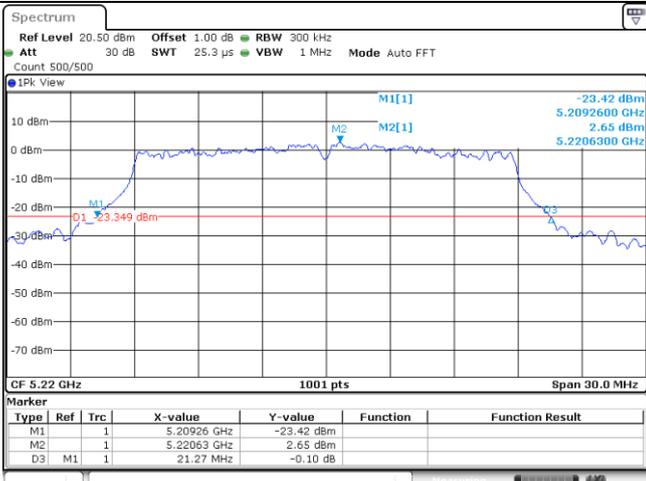
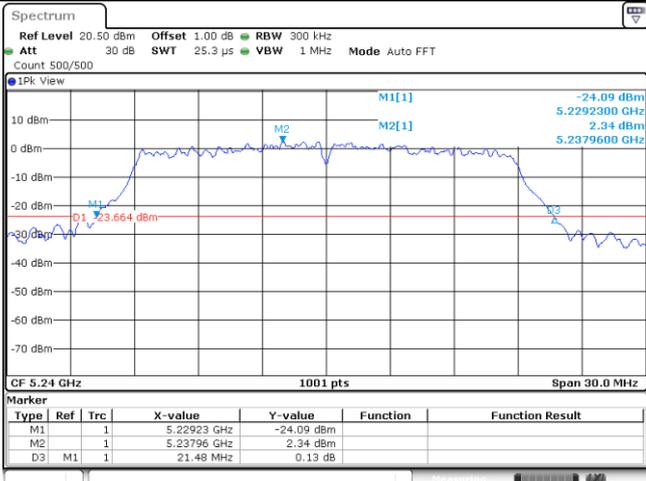


**Appendix C: 26dB bandwidth**

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH <sub>L</sub>	21.30	Pass
			CH <sub>M</sub>	21.06	
			CH <sub>H</sub>	21.18	
		802.11n	CH <sub>L</sub>	21.27	Pass
			CH <sub>M</sub>	21.27	
			CH <sub>H</sub>	21.48	
		802.11a	CH <sub>L</sub>	21.57	Pass
			CH <sub>M</sub>	21.24	
			CH <sub>H</sub>	21.33	
	40	802.11ac	CH <sub>L</sub>	40.14	Pass
			CH <sub>H</sub>	39.84	
		802.11n	CH <sub>L</sub>	40.02	Pass
CH <sub>H</sub>			39.60		
80	802.11ac	CH <sub>M</sub>	81.12	Pass	
II	20	802.11ac	CH <sub>L</sub>	21.48	Pass
			CH <sub>M</sub>	21.57	
			CH <sub>H</sub>	21.33	
		802.11n	CH <sub>L</sub>	21.21	Pass
			CH <sub>M</sub>	21.15	
			CH <sub>H</sub>	21.00	
		802.11a	CH <sub>L</sub>	21.24	Pass
			CH <sub>M</sub>	21.24	
			CH <sub>H</sub>	21.33	
	40	802.11ac	CH <sub>L</sub>	39.78	Pass
			CH <sub>H</sub>	40.02	
		802.11n	CH <sub>L</sub>	39.96	Pass
CH <sub>H</sub>			39.84		
80	802.11ac	CH <sub>M</sub>	81.72	Pass	

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
III	20	802.11ac	CH <sub>L</sub>	21.33	Pass
			CH <sub>M</sub>	21.48	
			CH <sub>H</sub>	21.27	
		802.11n	CH <sub>L</sub>	21.30	Pass
			CH <sub>M</sub>	21.03	
			CH <sub>H</sub>	21.51	
		802.11a	CH <sub>L</sub>	21.00	Pass
			CH <sub>M</sub>	20.85	
			CH <sub>H</sub>	20.76	
	40	802.11ac	CH <sub>L</sub>	40.14	Pass
			CH <sub>M</sub>	40.08	
			CH <sub>H</sub>	39.96	
		802.11n	CH <sub>L</sub>	39.72	Pass
			CH <sub>M</sub>	39.72	
			CH <sub>H</sub>	39.72	
80	802.11ac	CH <sub>L</sub>	81.48	Pass	
		CH <sub>M</sub>	80.64		
		CH <sub>H</sub>	81.36		

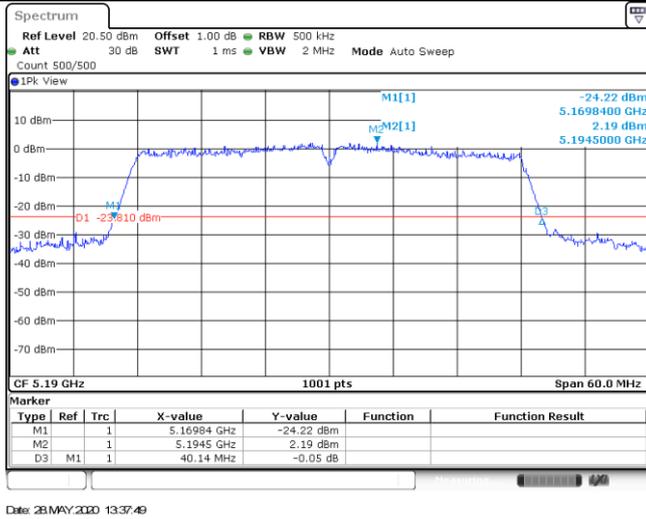
Band I		802.11ac (HT20)																												
CH <sub>L</sub>	<p><b>Marker</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.16932 GHz</td> <td>-23.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.18114 GHz</td> <td>2.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.3 MHz</td> <td>0.10 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 MAY 2020 13:31:08</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.16932 GHz	-23.28 dBm			M2	1	1	5.18114 GHz	2.83 dBm			D3	M1	1	21.3 MHz	0.10 dB		
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Band I		802.11n (HT20)																												
CH <sub>L</sub>	 <p><b>Marker</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.16926 GHz</td> <td>-22.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.17799 GHz</td> <td>3.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.27 MHz</td> <td>0.28 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 MAY 2020 11:34:45</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.16926 GHz	-22.74 dBm			M2	1	1	5.17799 GHz	3.64 dBm			D3	M1	1	21.27 MHz	0.28 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1	1	5.16926 GHz	-22.74 dBm																										
M2	1	1	5.17799 GHz	3.64 dBm																										
D3	M1	1	21.27 MHz	0.28 dB																										
CH <sub>M</sub>	 <p><b>Marker</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.20926 GHz</td> <td>-23.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.22063 GHz</td> <td>2.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.27 MHz</td> <td>-0.10 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 MAY 2020 11:33:46</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.20926 GHz	-23.42 dBm			M2	1	1	5.22063 GHz	2.65 dBm			D3	M1	1	21.27 MHz	-0.10 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
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CH <sub>H</sub>	 <p><b>Marker</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.22923 GHz</td> <td>-24.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.23796 GHz</td> <td>2.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.48 MHz</td> <td>0.13 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 MAY 2020 11:33:33</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.22923 GHz	-24.09 dBm			M2	1	1	5.23796 GHz	2.34 dBm			D3	M1	1	21.48 MHz	0.13 dB		
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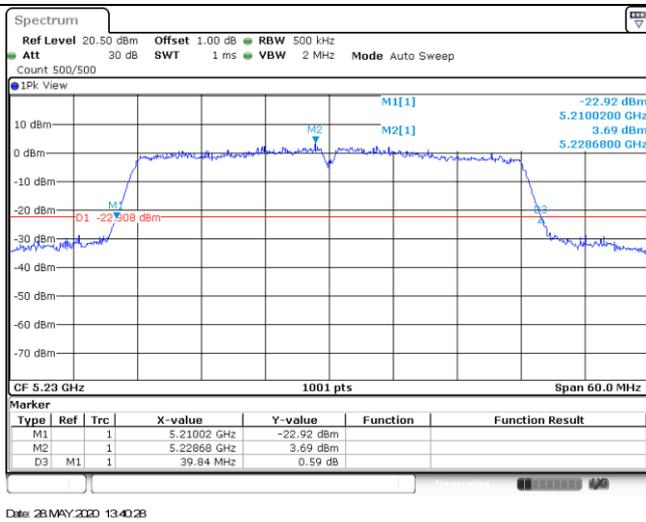
Band I		802.11a																												
CH <sub>L</sub>	<p> <b>Spectrum</b>                      Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz                      Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      Count 500/500                      IPK View                      CF 5.18 GHz 1001 pts Span 30.0 MHz                      Date: 28 MAY 2020 11:22:59                 </p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.18174 GHz</td> <td>-22.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.18174 GHz</td> <td>4.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.57 MHz</td> <td>-0.20 dB</td> <td></td> <td></td> </tr> </tbody> </table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.18174 GHz	-22.03 dBm			M2	1	1	5.18174 GHz	4.14 dBm			D3	M1	1	21.57 MHz	-0.20 dB		
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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 500/500                      IPK View                      CF 5.22 GHz 1001 pts Span 30.0 MHz                      Date: 28 MAY 2020 11:29:43                 </p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.22051 GHz</td> <td>-22.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.22051 GHz</td> <td>4.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.24 MHz</td> <td>-0.02 dB</td> <td></td> <td></td> </tr> </tbody> </table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.22051 GHz	-22.16 dBm			M2	1	1	5.22051 GHz	4.03 dBm			D3	M1	1	21.24 MHz	-0.02 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1	1	5.22051 GHz	-22.16 dBm																										
M2	1	1	5.22051 GHz	4.03 dBm																										
D3	M1	1	21.24 MHz	-0.02 dB																										
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 500/500                      IPK View                      CF 5.24 GHz 1001 pts Span 30.0 MHz                      Date: 28 MAY 2020 11:31:21                 </p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>5.24051 GHz</td> <td>-22.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>5.24051 GHz</td> <td>3.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>21.33 MHz</td> <td>0.31 dB</td> <td></td> <td></td> </tr> </tbody> </table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	5.24051 GHz	-22.41 dBm			M2	1	1	5.24051 GHz	3.98 dBm			D3	M1	1	21.33 MHz	0.31 dB		
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M2	1	1	5.24051 GHz	3.98 dBm																										
D3	M1	1	21.33 MHz	0.31 dB																										

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

CH<sub>L</sub>

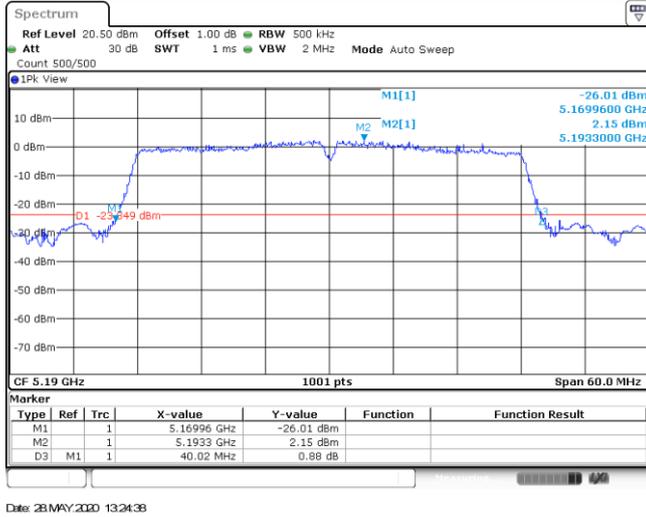


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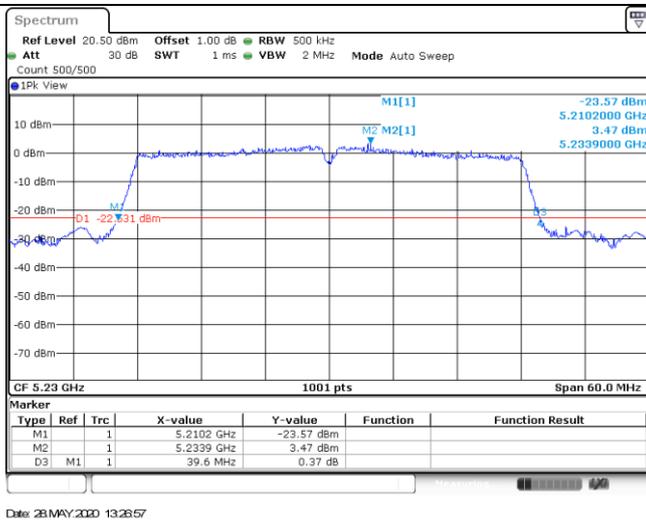


**Band I** **802.11n (HT40)**

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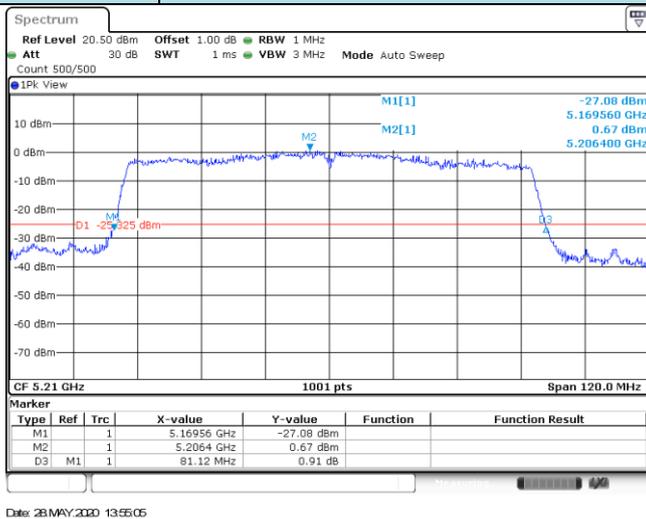


CH<sub>H</sub>



**Band I** **802.11ac (HT80)**

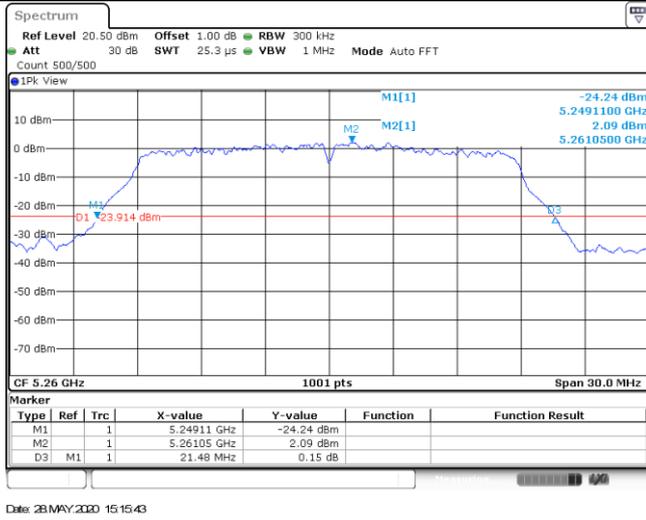
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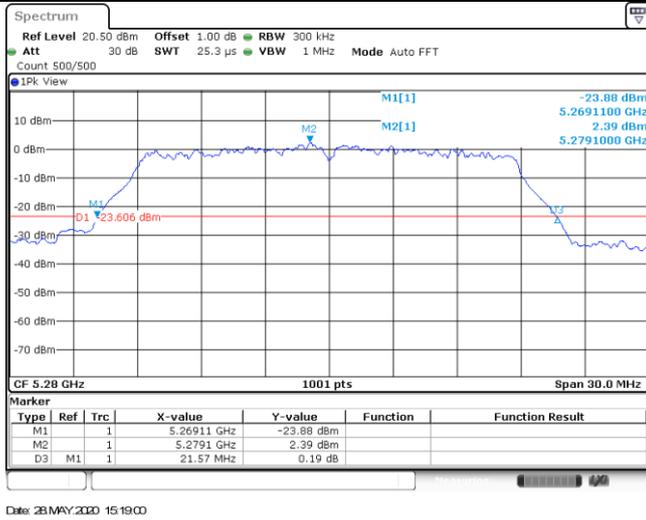
Band II

802.11ac (HT20)

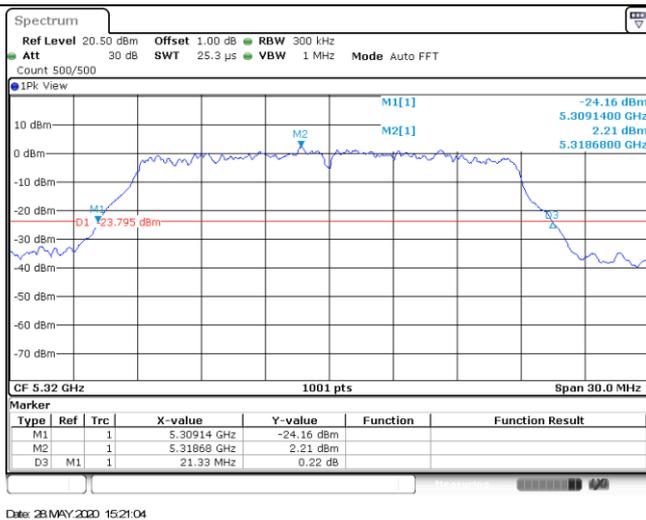
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CH<sub>M</sub>



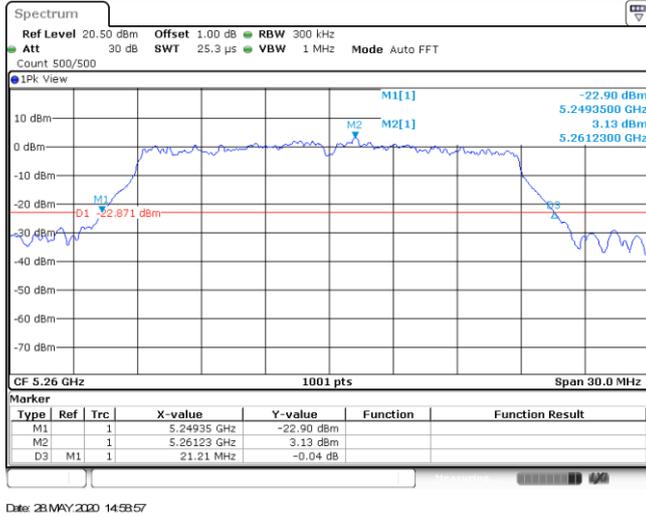
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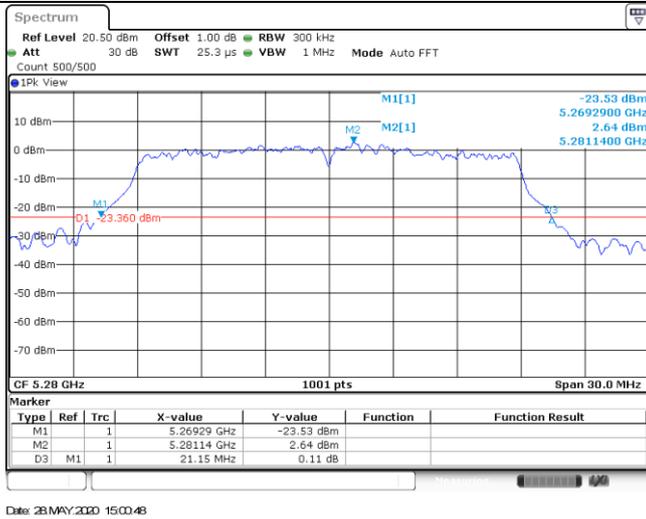
Band II

802.11n (HT20)

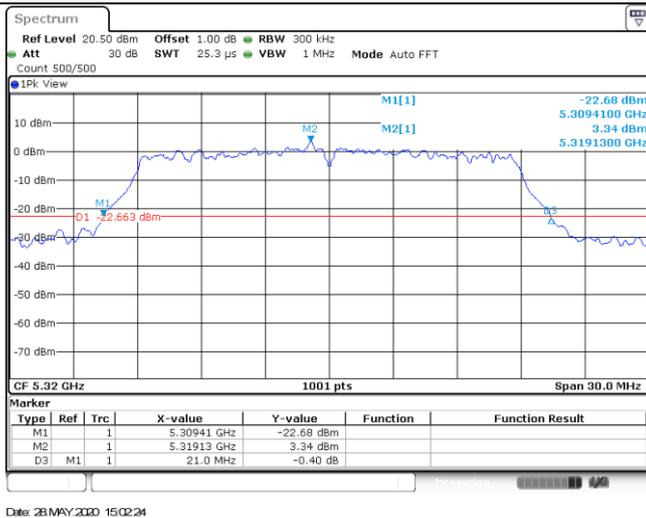
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CH<sub>M</sub>

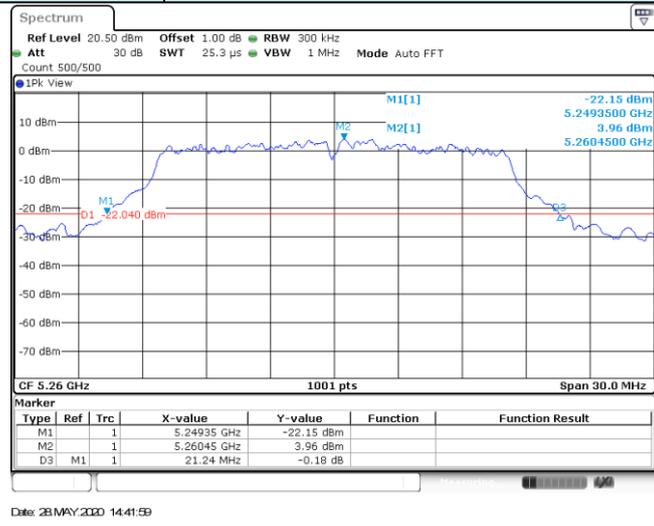


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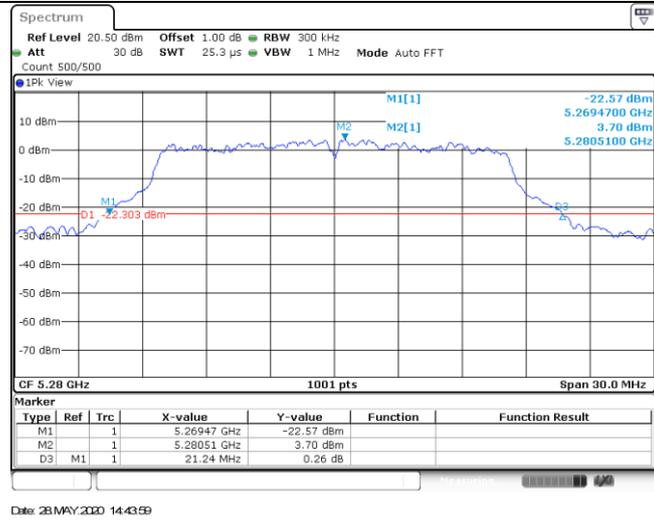


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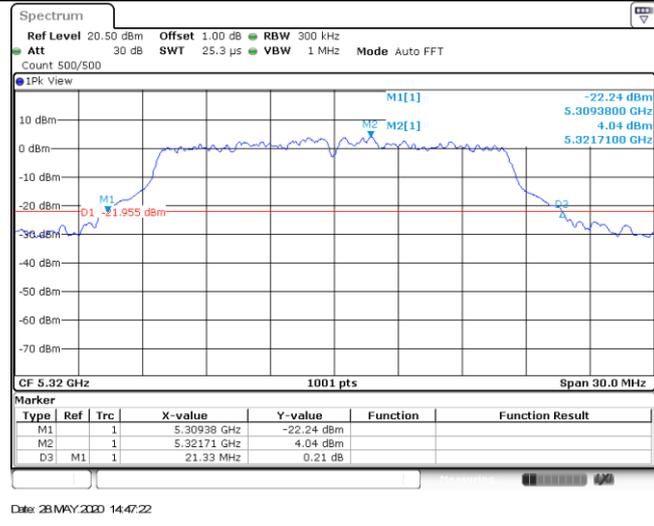
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CH<sub>M</sub>



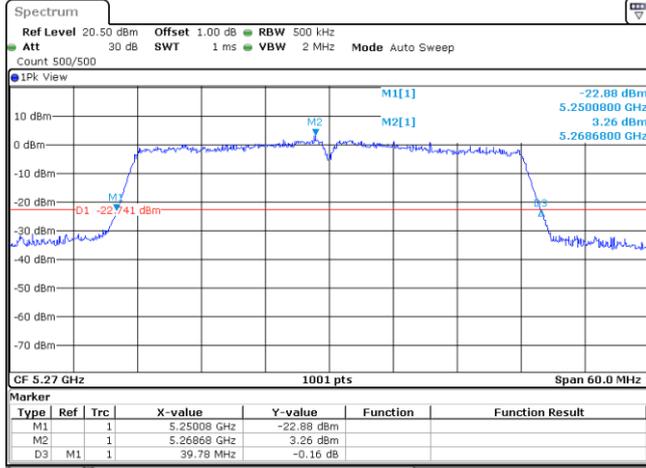
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Band II

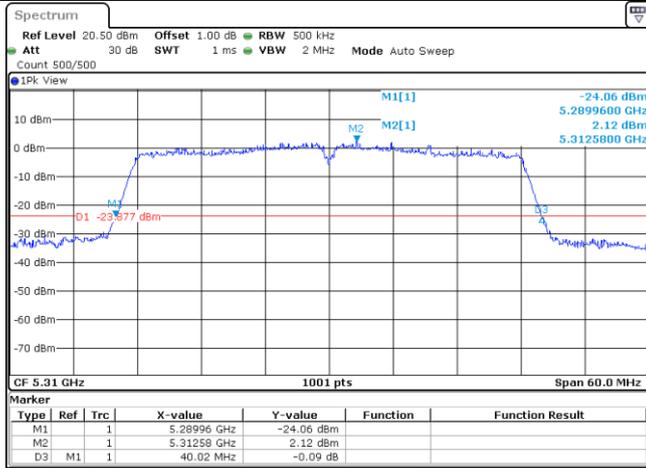
802.11ac (HT40)

CH<sub>L</sub>



Date: 28 MAY 2020 15:25:24

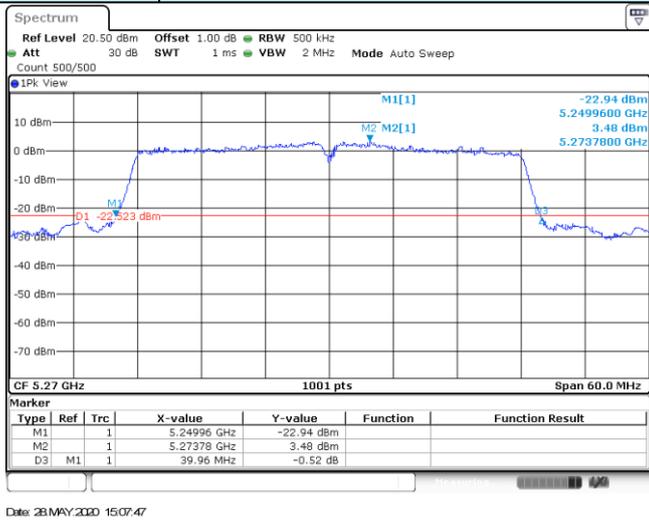
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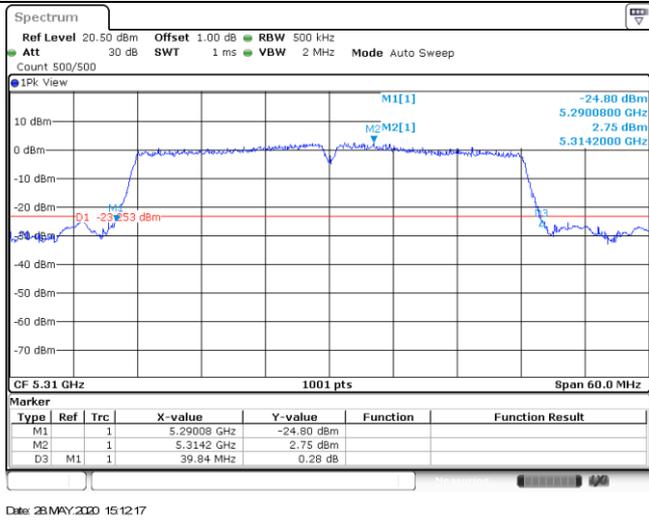
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**Band II** **802.11n (HT40)**

CH<sub>L</sub>

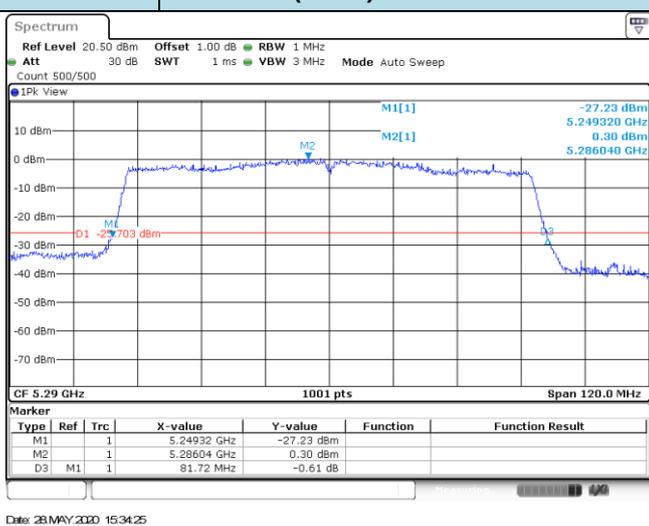


CH<sub>H</sub>



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

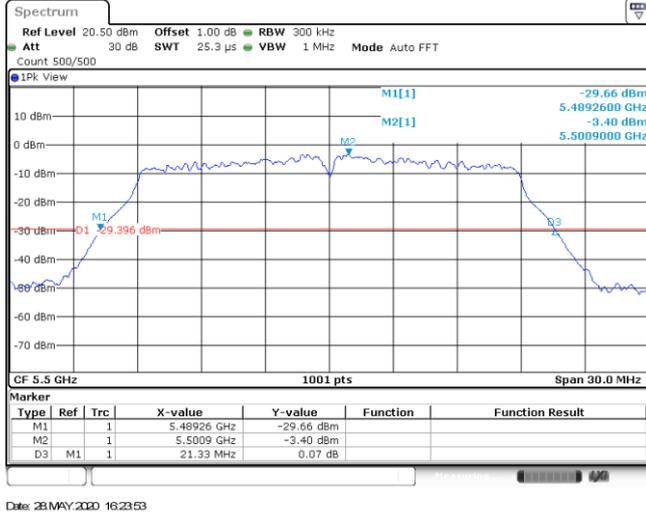
CH<sub>M</sub>



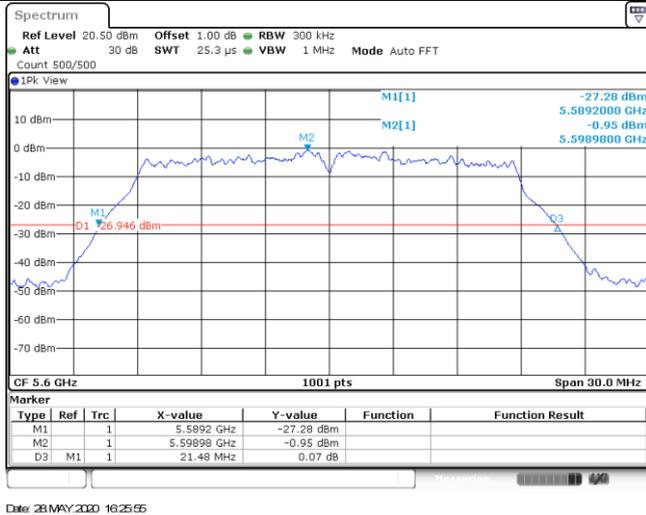
Band III

802.11ac (HT20)

CH<sub>L</sub>



CH<sub>M</sub>



CH<sub>H</sub>

