

APPENDIX REPORT

Project No.	SHT2005116804EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20051168010	Model No.	CT9E78Q22N
Start test date	2020/5/28	Finish date	2020/6/4
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	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

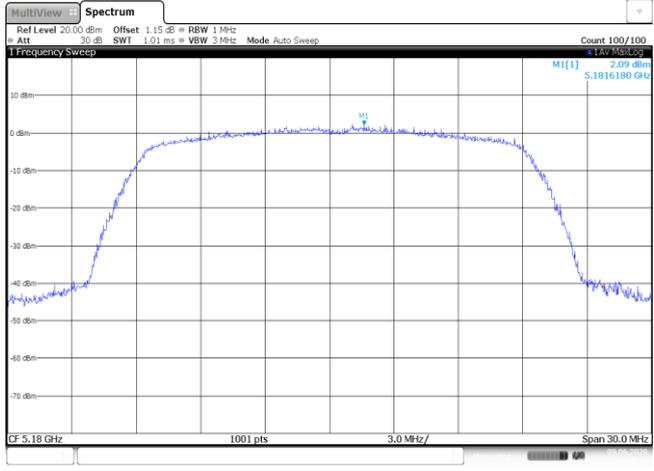
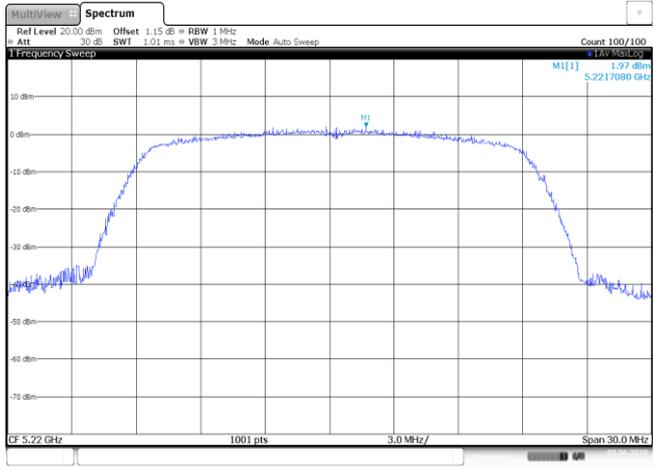
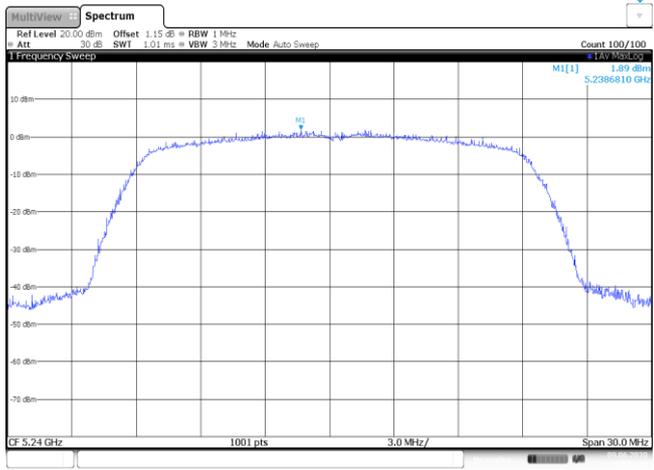
Band	Bandwidth (MHz)	Type	Channel	duty cycle (%)	duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH _L	97	0.13	12.46	24.00	Pass
			CH _M	97	0.13	12.43		
			CH _H	97	0.13	13.01		
		802.11n	CH _L	97	0.13	12.05	24.00	Pass
			CH _M	97	0.13	12.01		
			CH _H	97	0.13	12.02		
		802.11a	CH _L	97	0.13	12.02	24.00	Pass
			CH _M	97	0.13	12.01		
			CH _H	97	0.13	11.94		
	40	802.11ac	CH _L	66	1.8	12.56	24.00	Pass
			CH _H	66	1.8	12.51		
		802.11n	CH _L	69	1.61	12.29	24.00	Pass
CH _H			69	1.61	11.85			
80	802.11ac	CH _M	60	2.22	12.70	24.00	Pass	
IV	20	802.11ac	CH _L	96	0.18	12.42	30.00	Pass
			CH _M	96	0.18	12.32		
			CH _H	96	0.18	12.96		
		802.11n	CH _L	96	0.18	12.34	30.00	Pass
			CH _M	96	0.18	12.61		
			CH _H	96	0.18	12.96		
		802.11a	CH _L	96	0.18	12.14	30.00	Pass
			CH _M	96	0.18	12.24		
			CH _H	96	0.18	12.94		
	40	802.11ac	CH _L	64	1.94	12.48	30.00	Pass
			CH _H	64	1.94	12.62		
		802.11n	CH _L	70	1.55	12.60	30.00	Pass
CH _H			70	1.55	12.91			
80	802.11ac	CH _M	62	2.08	12.26	30.00	Pass	

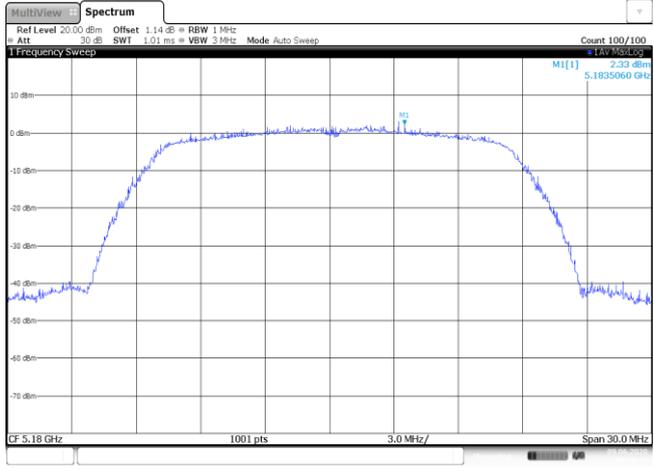
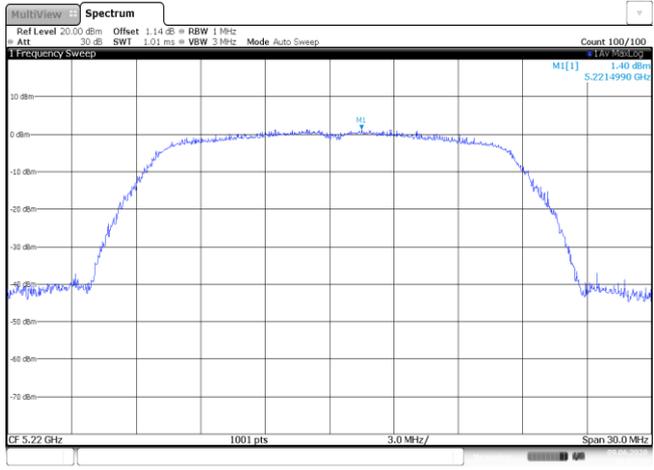
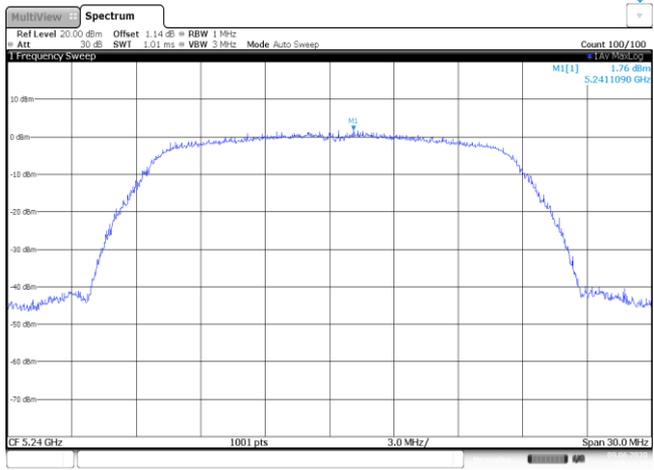
NOTE: duty cycle factor =10LOG(1/ duty cycle)

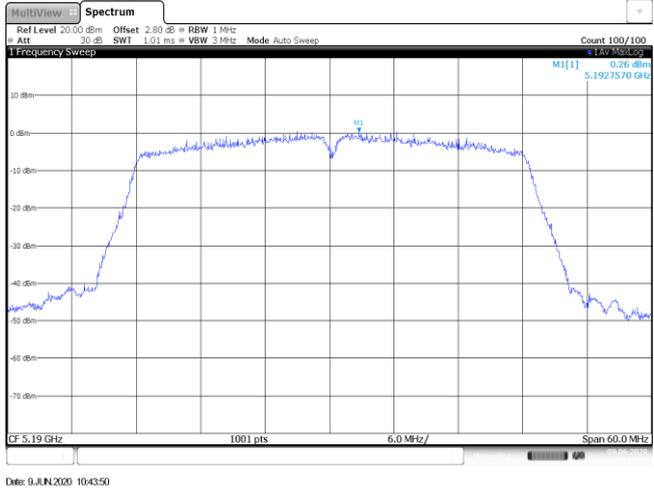
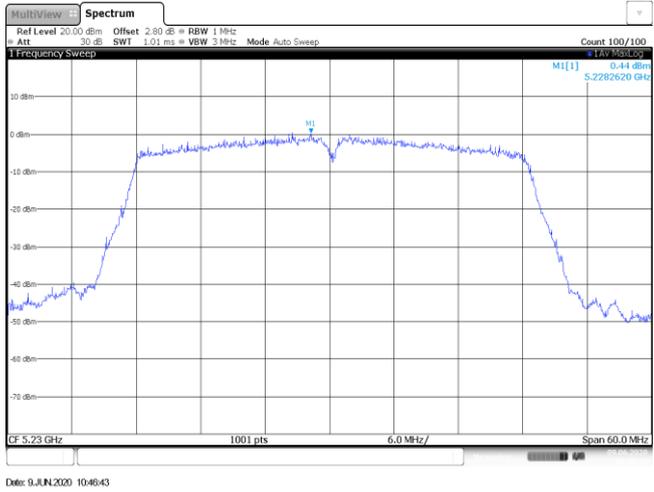
Appendix B: Maximum Power Spectral Density

Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH _L	2.69	11.00	Pass
			CH _M	3.75		
			CH _H	2.99		
		802.11n	CH _L	2.09	11.00	Pass
			CH _M	1.97		
			CH _H	1.89		
		802.11a	CH _L	2.33	11.00	Pass
			CH _M	1.40		
			CH _H	1.76		
	40	802.11ac	CH _L	0.26	11.00	Pass
			CH _H	0.44		
		802.11n	CH _L	-0.72	11.00	Pass
CH _H			0.03			
802.11ac		CH _M	-2.67	11.00	Pass	
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/500kHz)	Limit (dBm/500KHz)	Result
IV	20	802.11ac	CH _L	0.56	30.00	Pass
			CH _M	0.82		
			CH _H	1.62		
		802.11n	CH _L	0.95	30.00	Pass
			CH _M	1.23		
			CH _H	1.98		
		802.11a	CH _L	0.82	30.00	Pass
			CH _M	0.89		
			CH _H	1.42		
	40	802.11ac	CH _L	-2.43	30.00	Pass
			CH _H	-2.26		
		802.11n	CH _L	-1.58	30.00	Pass
			CH _H	-1.84		
	80	802.11ac	CH _M	-6.30	30.00	Pass

Band I	802.11ac (HT20)
CH _L	<p>MultiView Spectrum</p> <p>Ref Level 20.00 dBm Offset 2.19 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100</p> <p>1 Frequency Sweep</p> <p>M1[1] 2.69 dBm 5.1794010 GHz</p> <p>CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 9 JUN 2020 10:33:56</p>
CH _M	<p>MultiView Spectrum</p> <p>Ref Level 20.00 dBm Offset 2.20 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100</p> <p>1 Frequency Sweep</p> <p>M1[1] 3.75 dBm 5.2170030 GHz</p> <p>CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 9 JUN 2020 10:35:59</p>
CH _H	<p>MultiView Spectrum</p> <p>Ref Level 20.00 dBm Offset 2.20 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100</p> <p>1 Frequency Sweep</p> <p>M1[1] 2.99 dBm 5.2395800 GHz</p> <p>CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 9 JUN 2020 10:38:11</p>

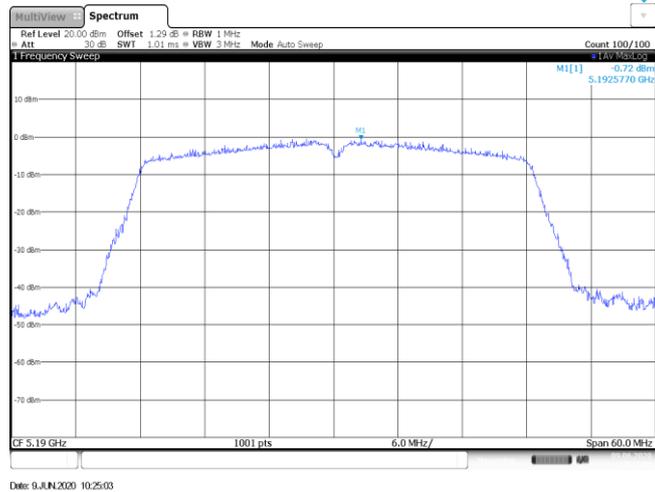
Band I		802.11n (HT20)
CH _L	 <p>The spectrum plot for channel CH_L shows a signal centered at 5.196 GHz. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.15 dB, RBW 1 MHz, SWI 1.01 ms, VBW 3 MHz, Mode Auto Sweep, Count 100/100. The signal level is 2.09 dBm at 5.1816180 GHz. The plot shows a flat signal between approximately 5.18 GHz and 5.22 GHz, with a roll-off outside this range.</p>	
CH _M	 <p>The spectrum plot for channel CH_M shows a signal centered at 5.227 GHz. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.15 dB, RBW 1 MHz, SWI 1.01 ms, VBW 3 MHz, Mode Auto Sweep, Count 100/100. The signal level is 1.97 dBm at 5.2217080 GHz. The plot shows a flat signal between approximately 5.22 GHz and 5.24 GHz, with a roll-off outside this range.</p>	
CH _H	 <p>The spectrum plot for channel CH_H shows a signal centered at 5.236 GHz. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.15 dB, RBW 1 MHz, SWI 1.01 ms, VBW 3 MHz, Mode Auto Sweep, Count 100/100. The signal level is 1.89 dBm at 5.2366810 GHz. The plot shows a flat signal between approximately 5.24 GHz and 5.26 GHz, with a roll-off outside this range.</p>	

Band I		802.11a
CH _L	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.14 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] 2.23 dBm 5.1835060 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 00:36:32</p>	
CH _M	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.14 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.40 dBm 5.2214990 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 10:07:44</p>	
CH _H	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.14 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.76 dBm 5.2411090 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 10:12:30</p>	

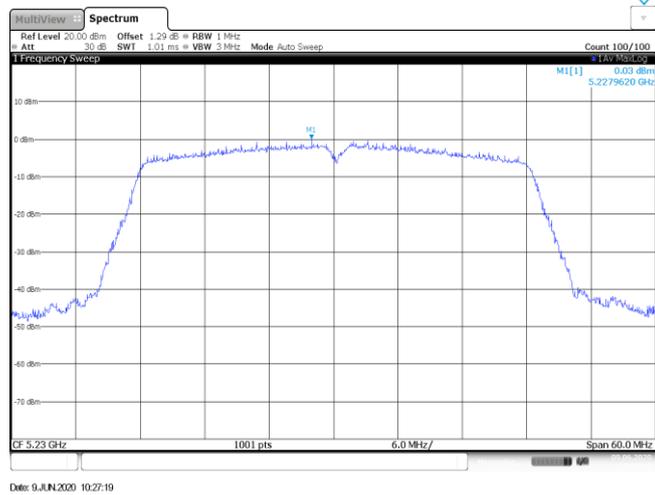
Band I		802.11ac (HT40)
CH _L		
CH _H		

Band I **802.11n (HT40)**

CH_L

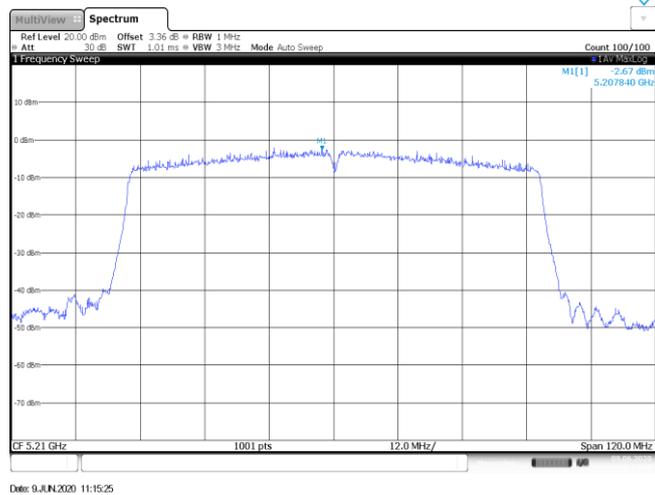


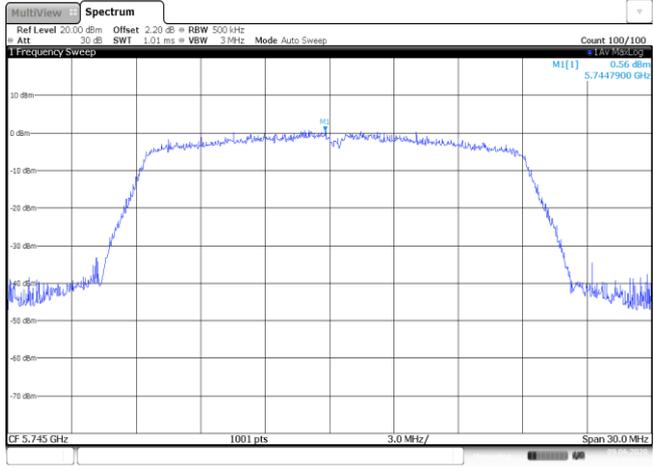
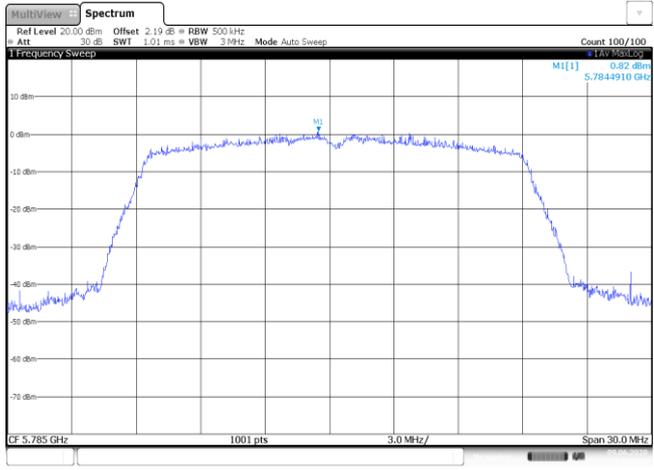
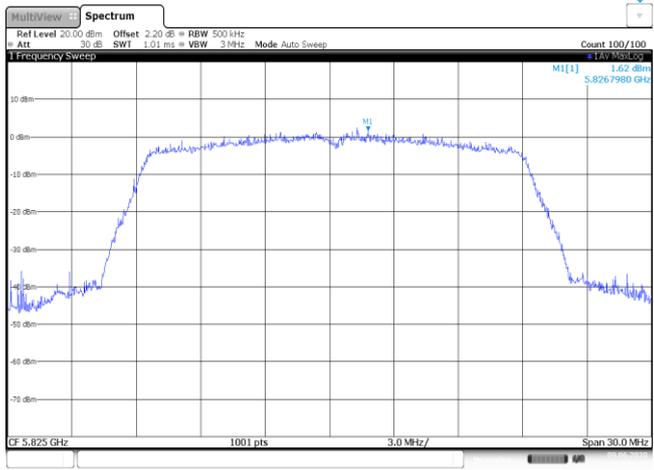
CH_H



Band I **802.11ac (HT80)**

CH_M

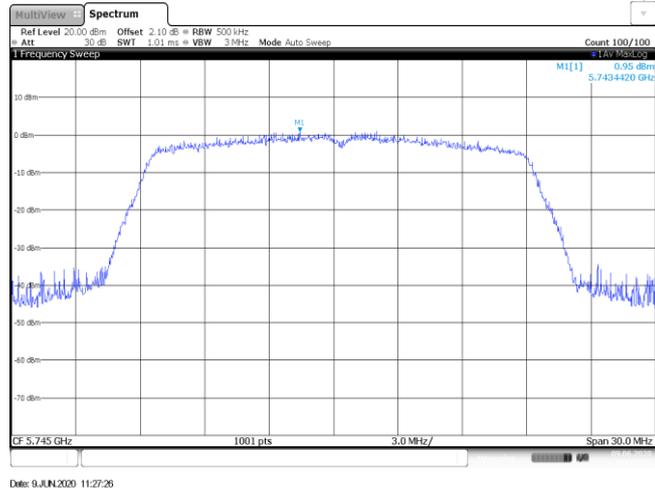


Band IV		802.11ac (HT20)
CH _L	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 2.20 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.56 dBm 5.744900 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 13:26:39</p>	
CH _M	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 2.19 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.52 dBm 5.7844910 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 13:32:05</p>	
CH _H	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 2.20 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.62 dBm 5.8267980 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 13:34:19</p>	

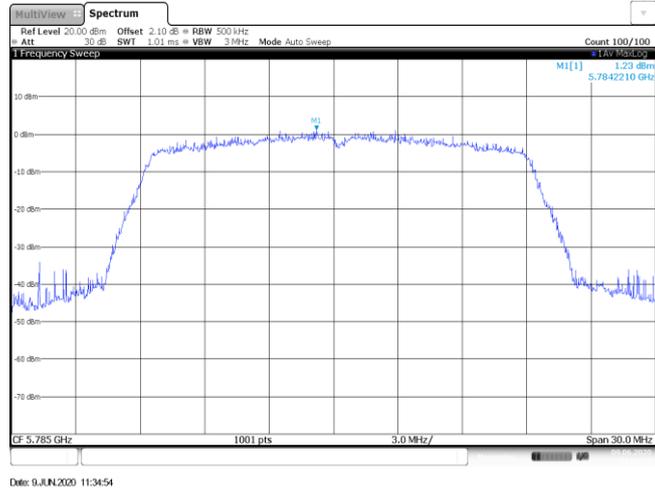
Band IV

802.11n (HT20)

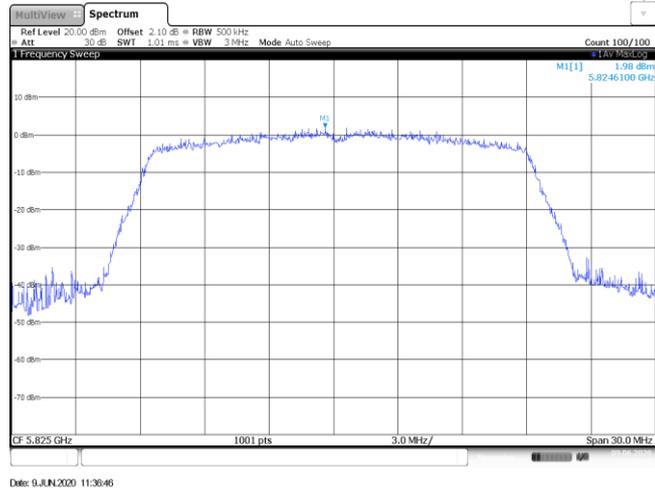
CH_L

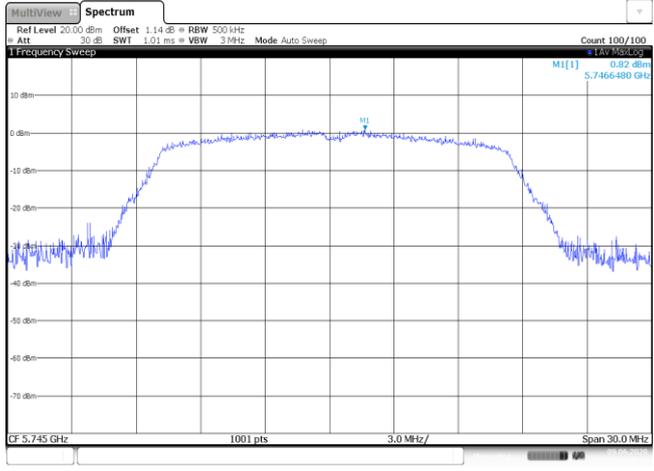
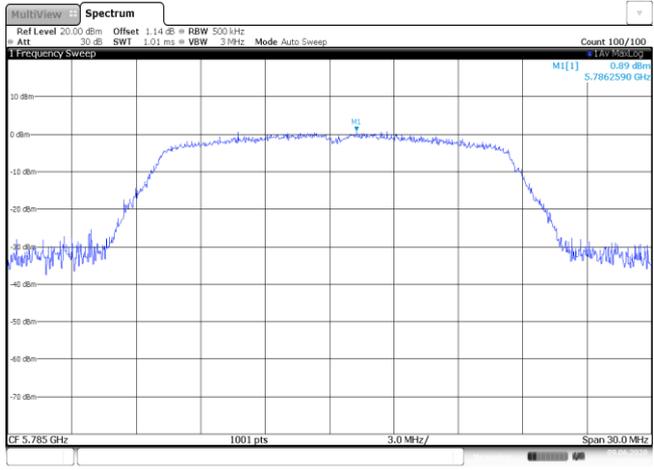
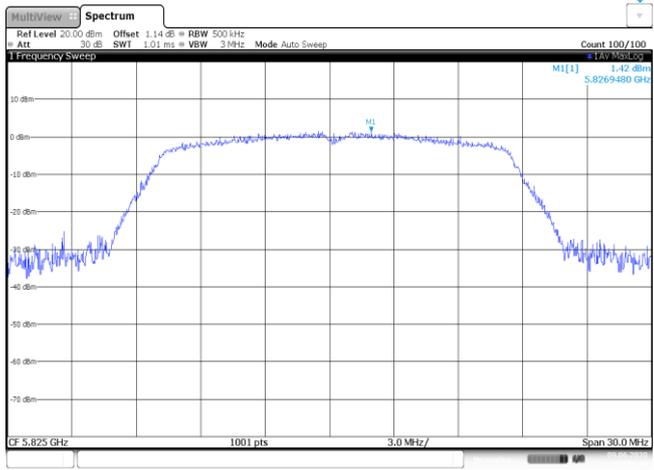


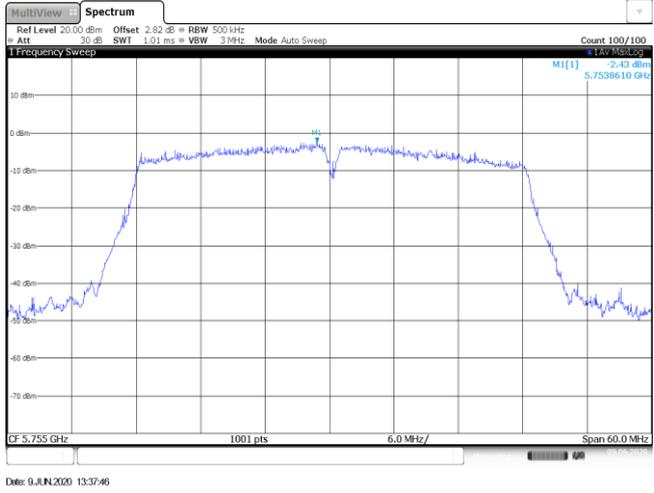
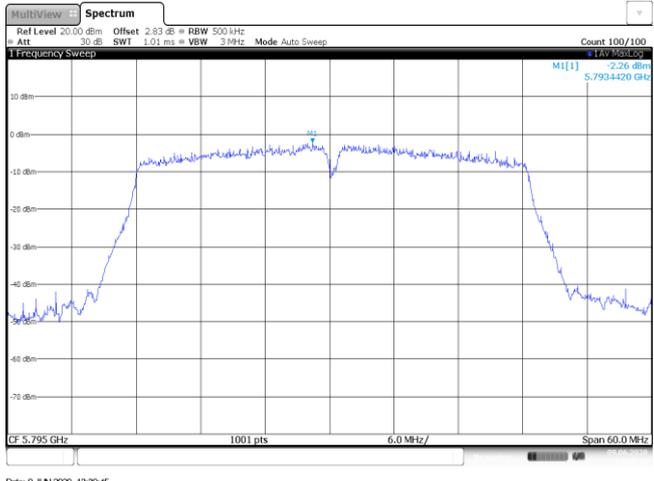
CH_M



CH_H

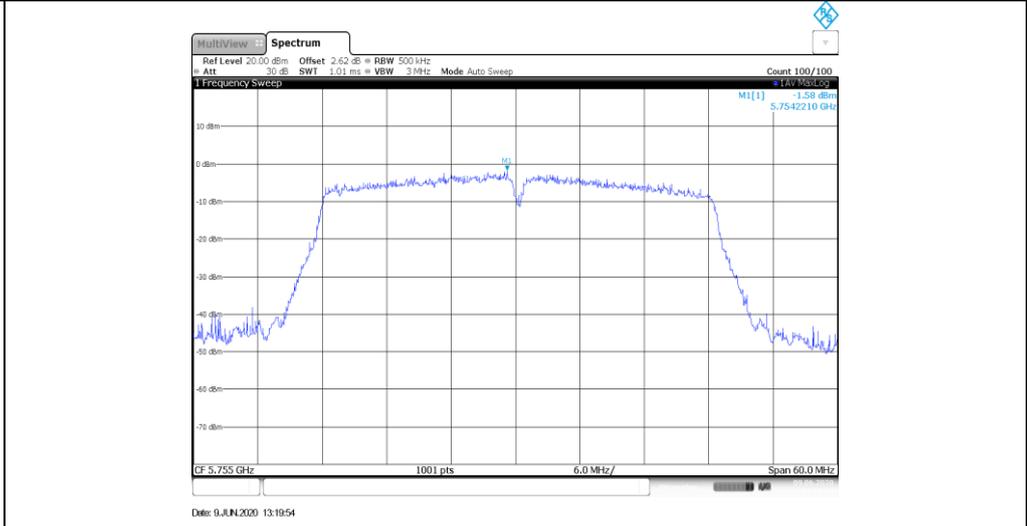


Band IV		802.11a
CH _L	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.14 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.92 dBm 5.7466480 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 11:19:33</p>	
CH _M	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.14 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.90 dBm 5.7862090 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 11:22:01</p>	
CH _H	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.14 dB RBW 500 Hz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.42 dBm 5.8269490 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 9 JUN 2020 11:24:09</p>	

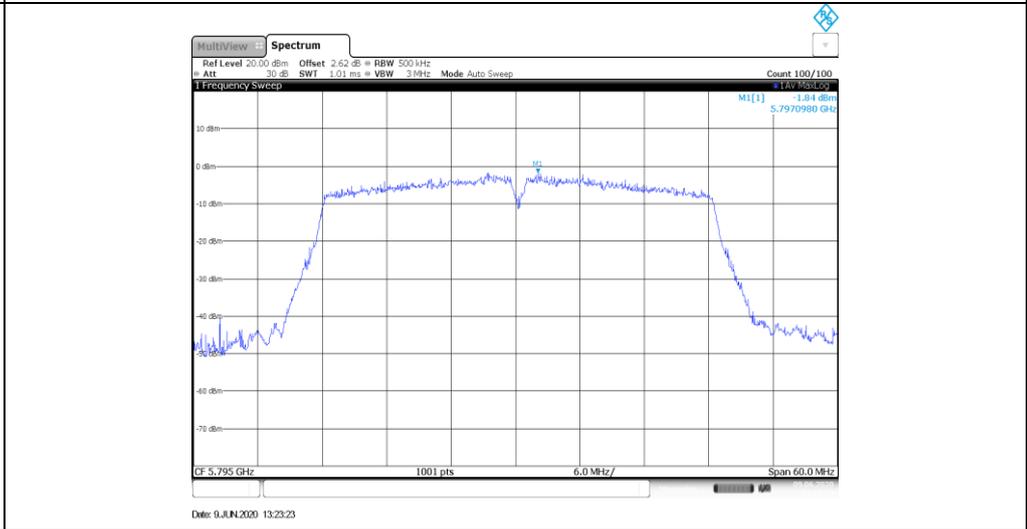
Band IV		802.11ac (HT40)
CH _L		
CH _H		

Band IV **802.11n (HT40)**

CH_L

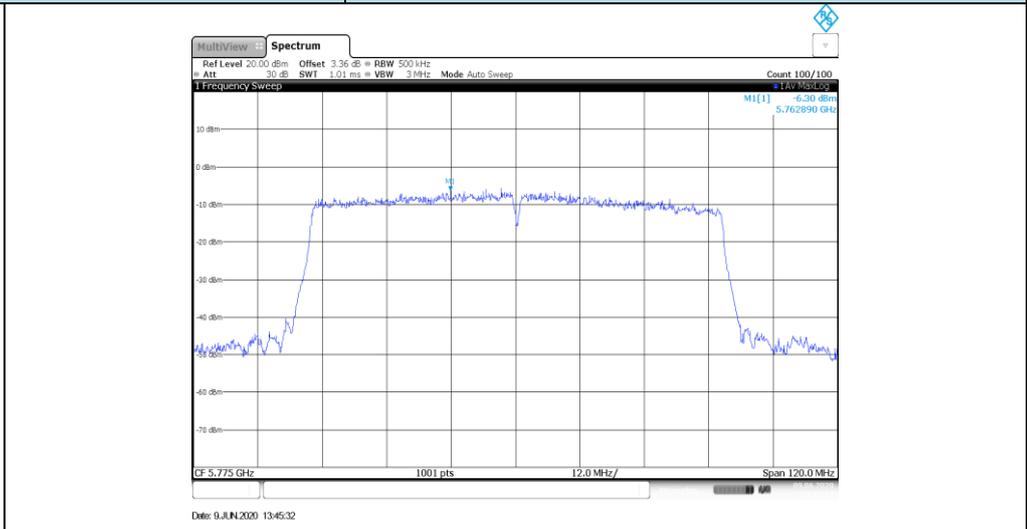


CH_H



Band IV **802.11ac (HT80)**

CH_M

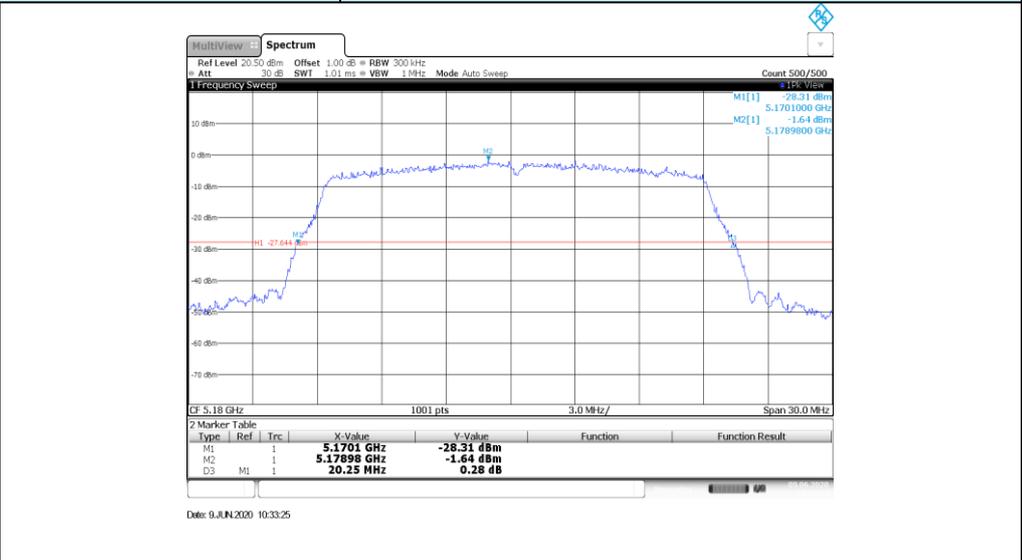


Appendix C: 26dB bandwidth

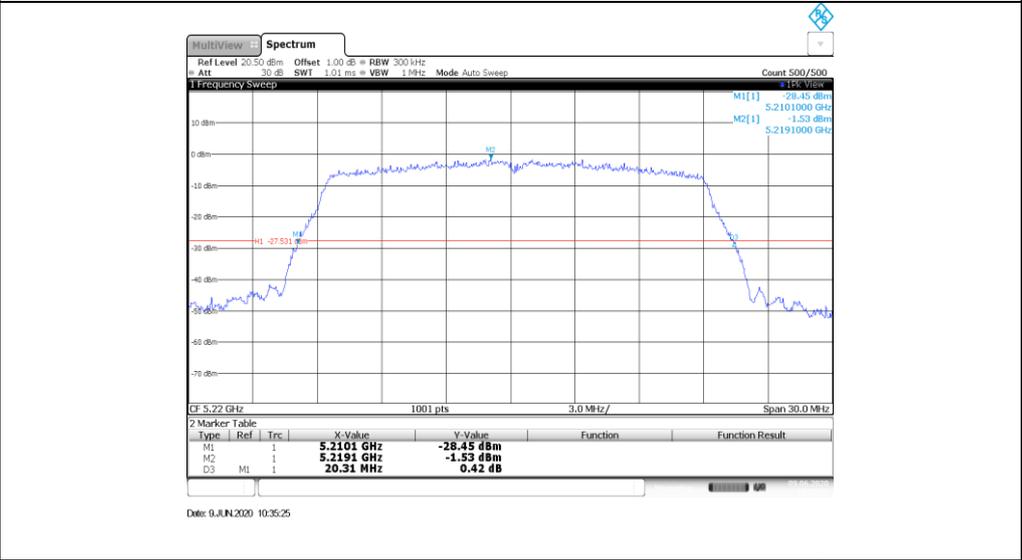
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.25	Pass
			CH _M	20.31	
			CH _H	20.28	
		802.11n	CH _L	20.55	Pass
			CH _M	20.49	
			CH _H	20.55	
		802.11a	CH _L	20.22	Pass
			CH _M	20.25	
			CH _H	20.16	
	40	802.11ac	CH _L	40.26	Pass
			CH _H	40.32	
		802.11n	CH _L	40.80	Pass
			CH _H	40.80	
80	802.11ac	CH _M	81.24	Pass	

Band I **802.11ac (HT20)**

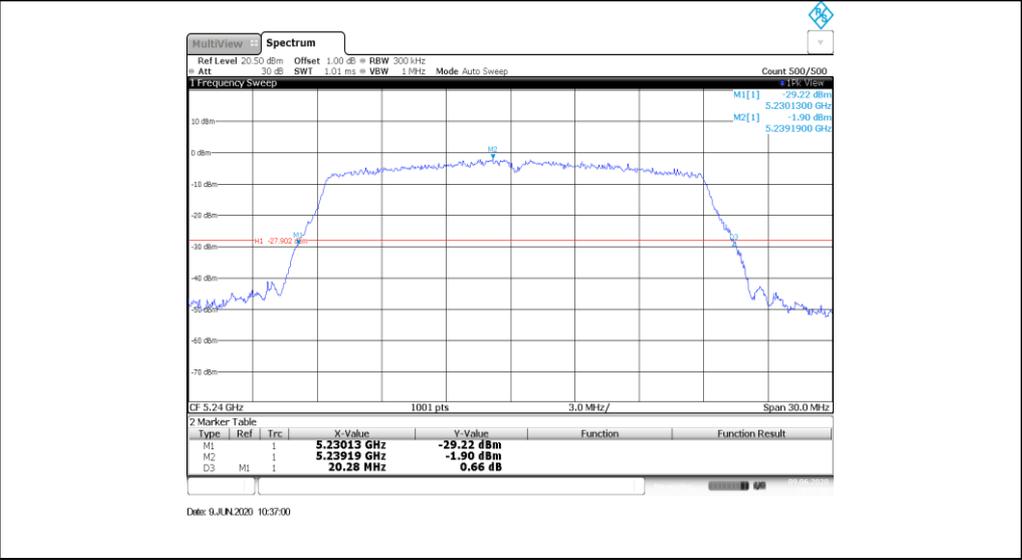
CH_L



CH_M



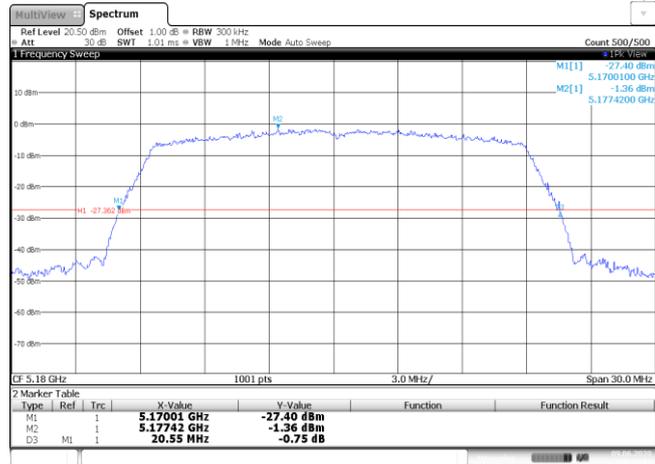
CH_H



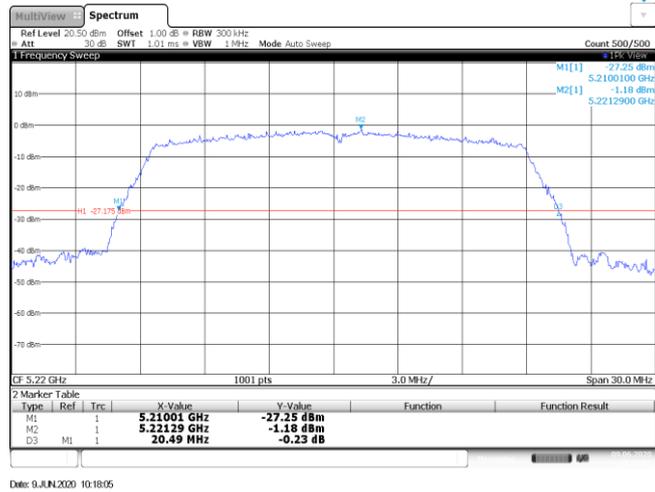
Band I

802.11n (HT20)

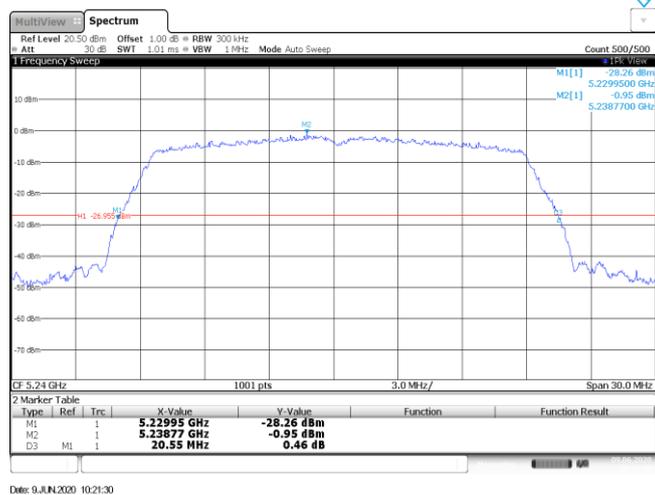
CH_L



CH_M

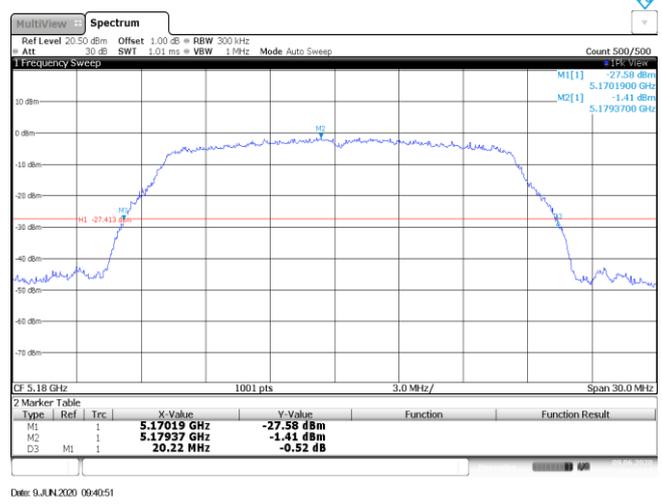


CH_H

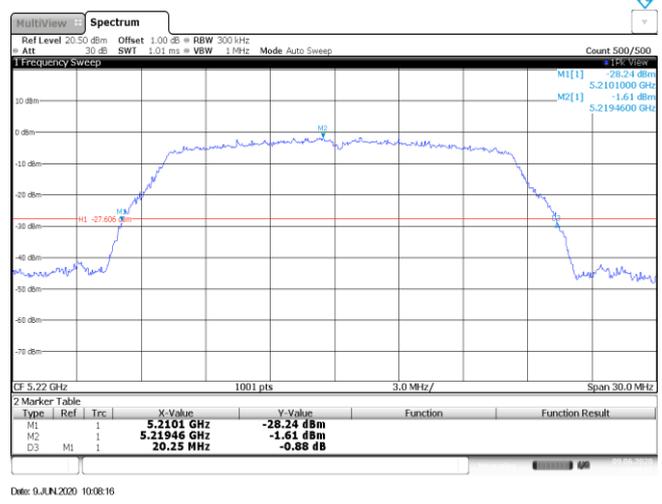


Band I **802.11a**

CH_L



CH_M



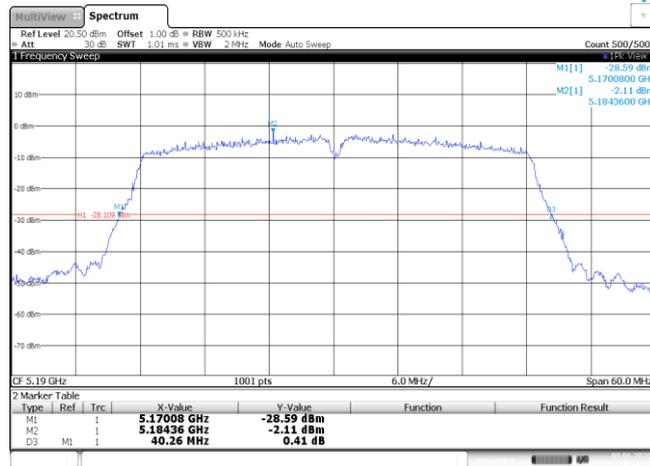
CH_H



Band I

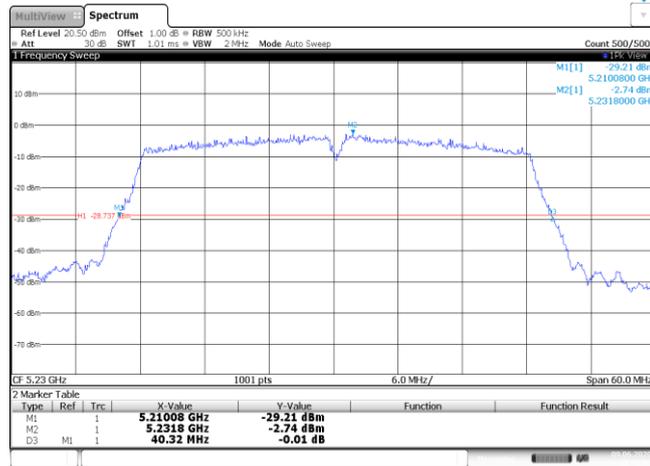
802.11ac (HT40)

CH_L



Date: 9.JUN.2020 10:44:35

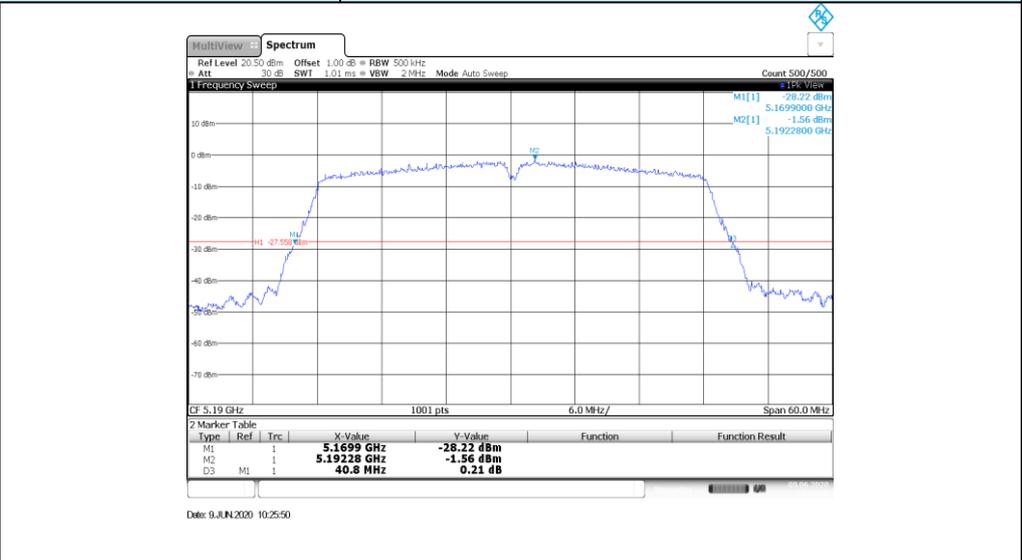
CH_H



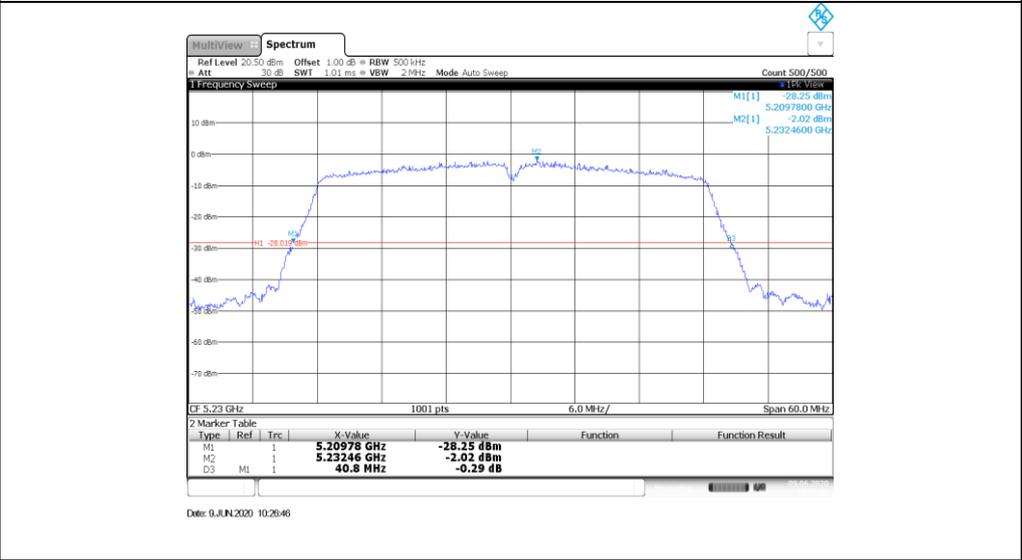
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Band I **802.11n (HT40)**

CH_L

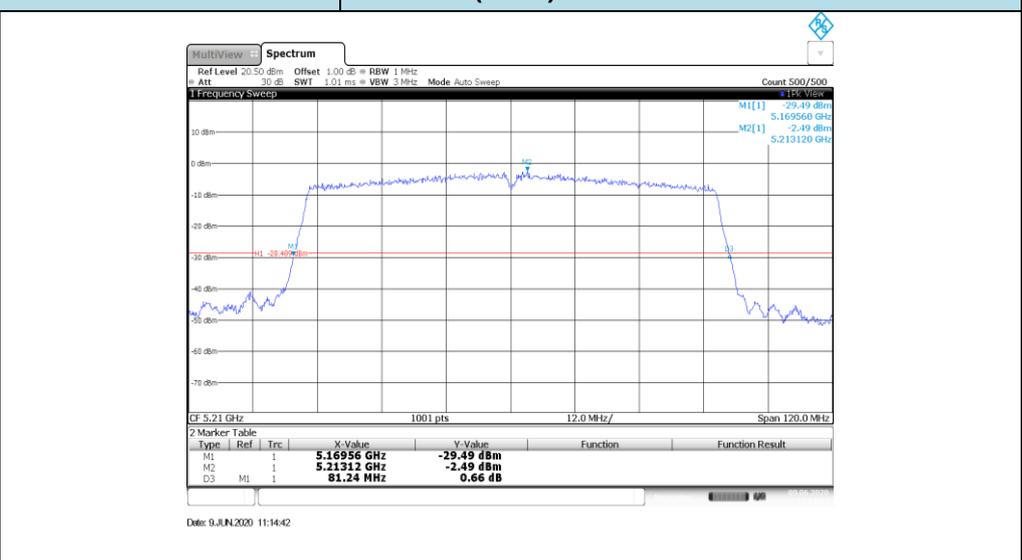


CH_H



Band I **802.11ac (HT80)**

CH_M



Appendix D: 99% Occupancy bandwidth

Band	Bandwidth (MHz)	Type	Channel	99% Occupancy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.62	Pass
			CH _M	17.68	
			CH _H	17.65	
		802.11n	CH _L	17.65	Pass
			CH _M	17.68	
			CH _H	17.65	
	802.11a	CH _L	16.69	Pass	
		CH _M	16.63		
		CH _H	16.63		
	40	802.11ac	CH _L	36.02	Pass
			CH _H	36.08	
		802.11n	CH _L	36.08	Pass
CH _H			36.02		
80	802.11ac	CH _M	75.41	Pass	
IV	20	802.11ac	CH _L	17.68	Pass
			CH _M	17.68	
			CH _H	17.65	
		802.11n	CH _L	17.65	Pass
			CH _M	17.62	
			CH _H	17.71	
	802.11a	CH _L	16.72	Pass	
		CH _M	16.69		
		CH _H	16.69		
	40	802.11ac	CH _L	36.02	Pass
			CH _H	35.96	
		802.11n	CH _L	35.95	Pass
CH _H			36.12		
80	802.11ac	CH _M	75.64	Pass	

Band I

802.11ac (HT20)

CH_L



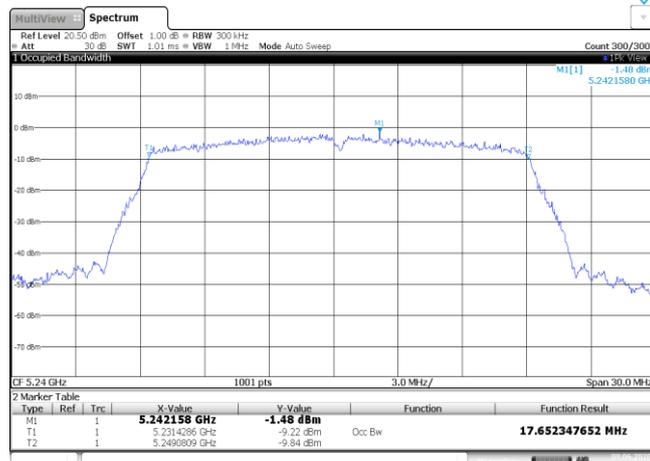
Date: 9.JUN.2020 10:33:16

CH_M



Date: 9.JUN.2020 10:35:16

CH_H



Date: 9.JUN.2020 10:38:51

Band I

802.11n (HT20)

CH_L



Date: 9.JUN.2020 10:16:37

CH_M



Date: 9.JUN.2020 10:17:46

CH_H



Date: 9.JUN.2020 10:21:20

Band I

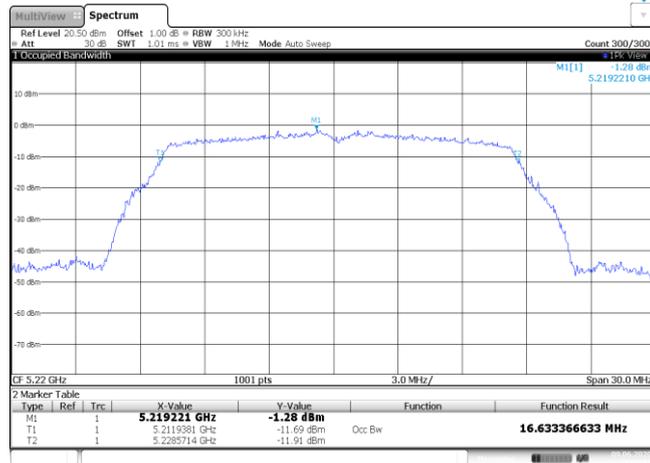
802.11a

CH_L



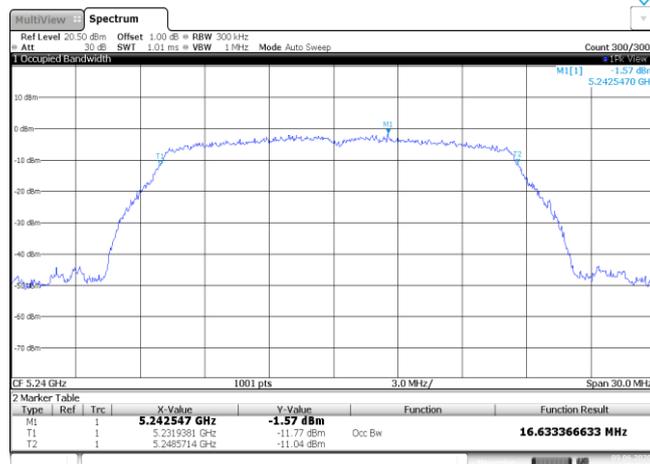
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CH_M



Date: 9.JUN.2020 10:08:07

CH_H

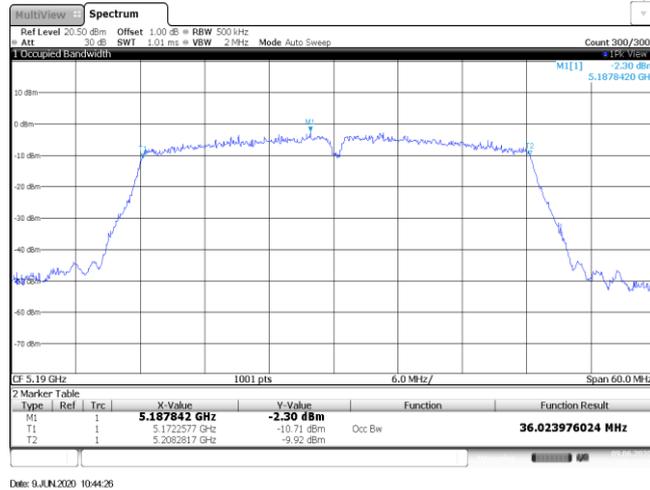


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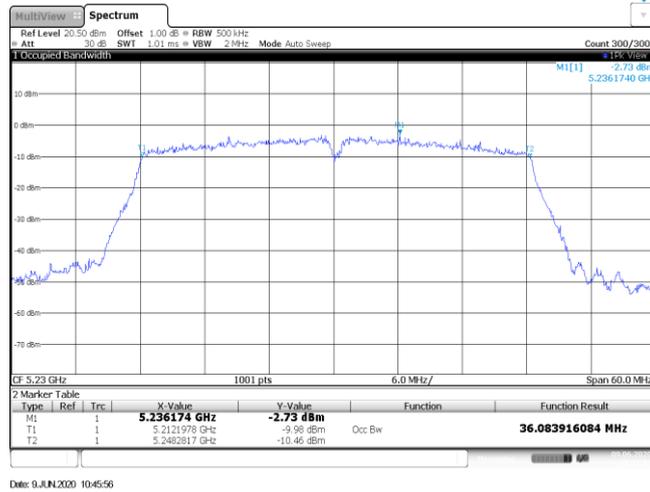
Band I

802.11ac (HT40)

CH_L



CH_H



Band I **802.11n (HT40)**

CH_L



Date: 9.JUN.2020 10:25:40

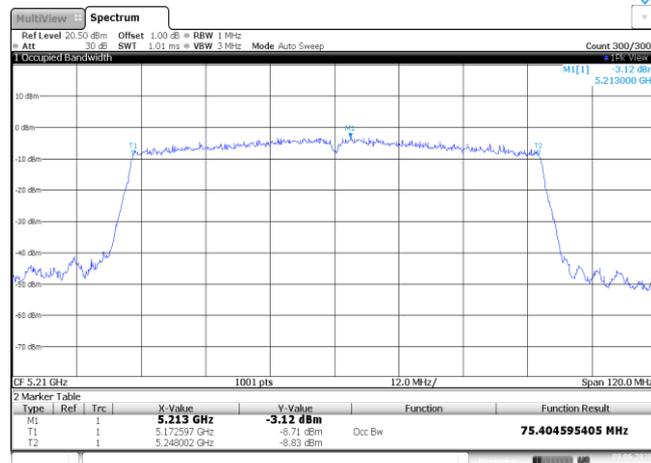
CH_H



Date: 9.JUN.2020 10:26:37

Band I **802.11ac (HT80)**

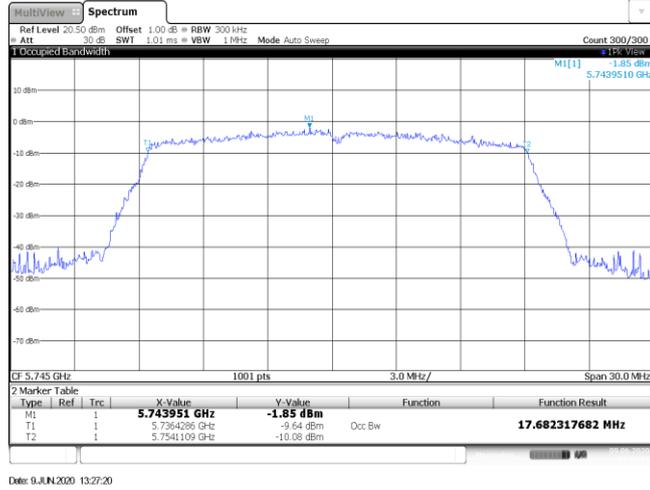
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Date: 9.JUN.2020 11:14:33

Band IV **802.11ac (HT20)**

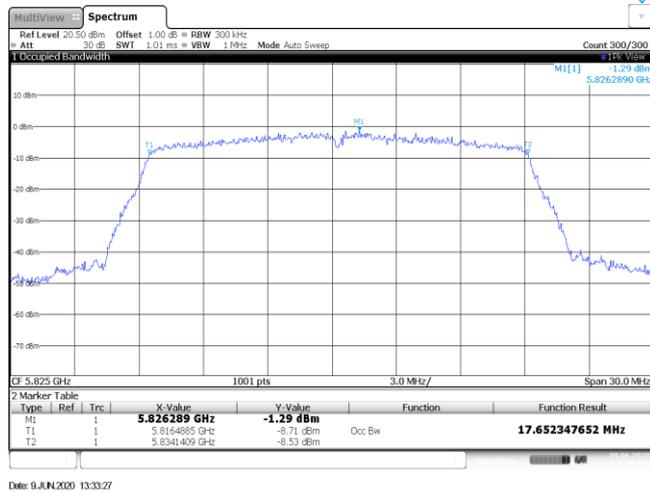
CH_L



CH_M



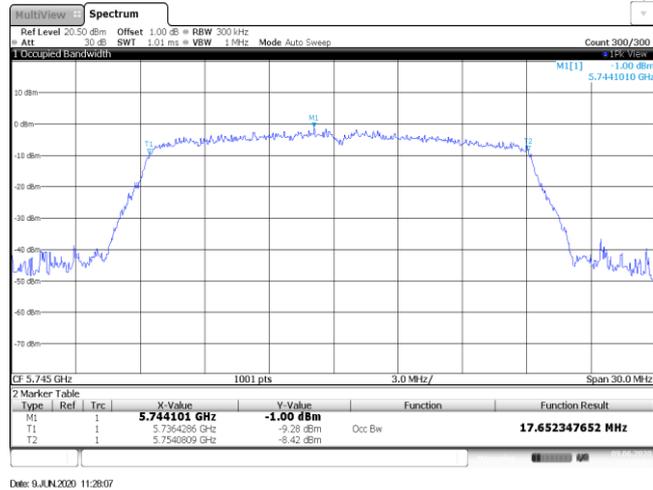
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Band IV

802.11n (HT20)

CH_L



CH_M



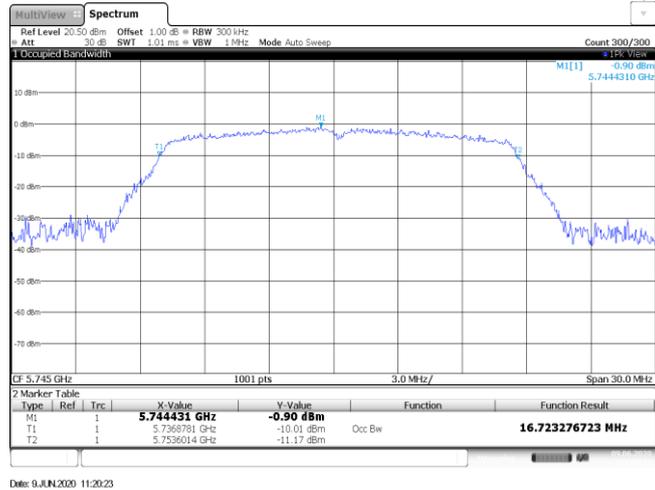
CH_H



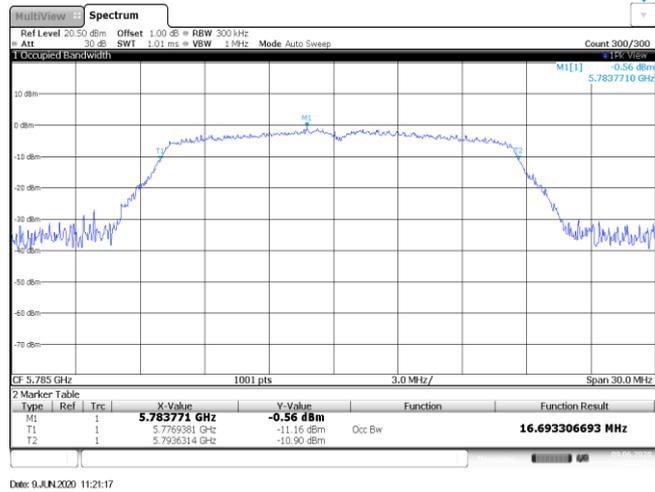
Band IV

802.11a

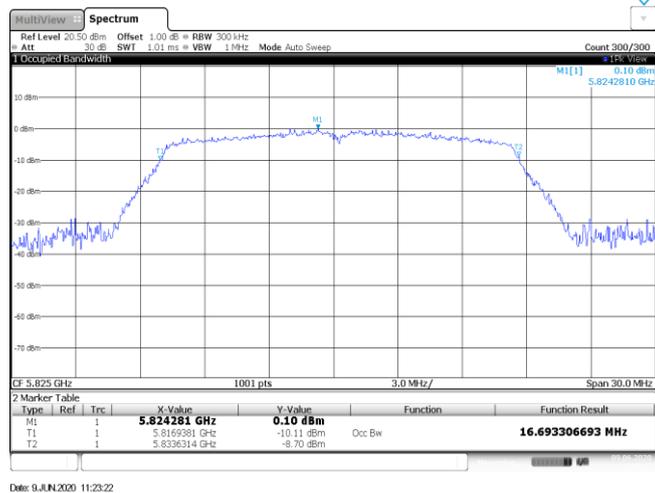
CH_L



CH_M



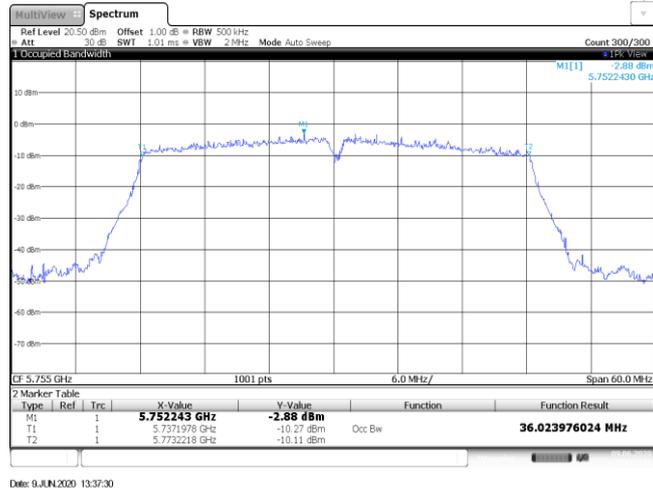
CH_H



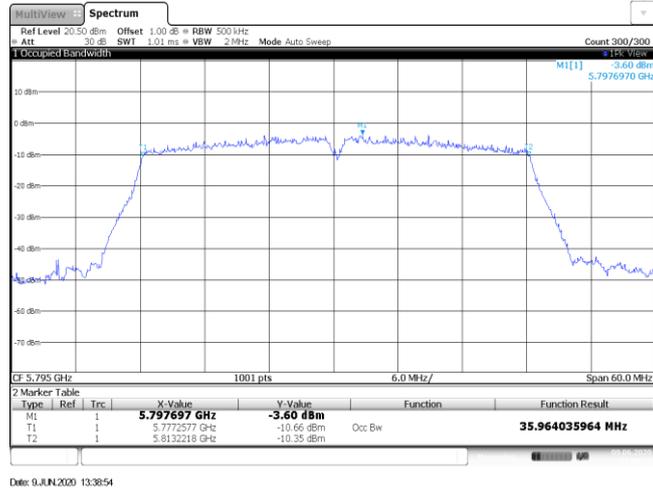
Band IV

802.11ac (HT40)

CH_L

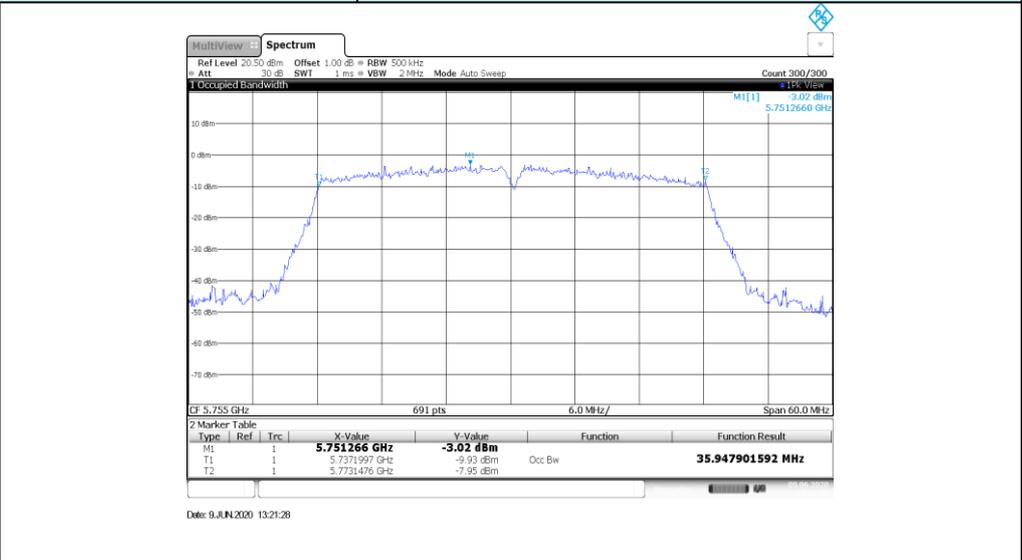


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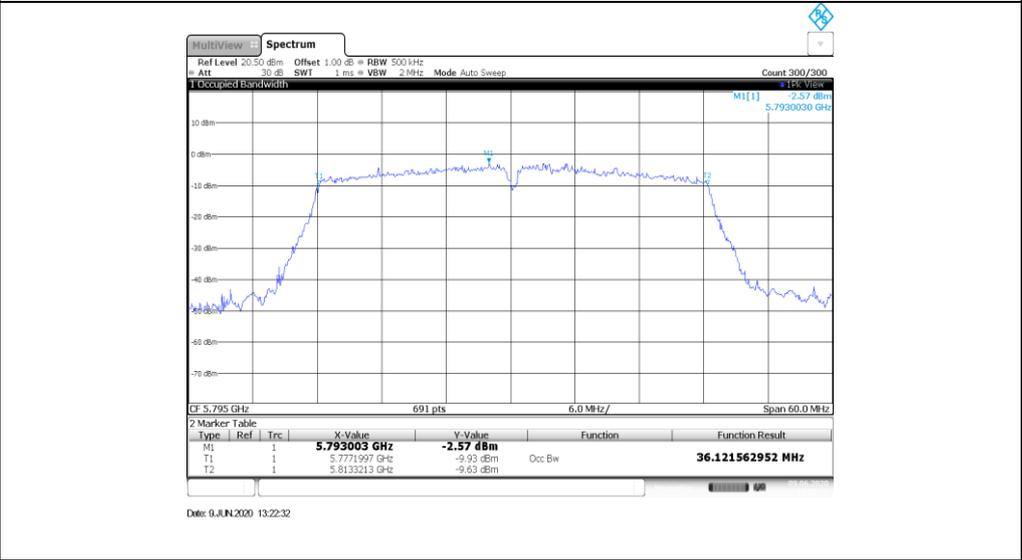


Band IV **802.11n (HT40)**

CH_L

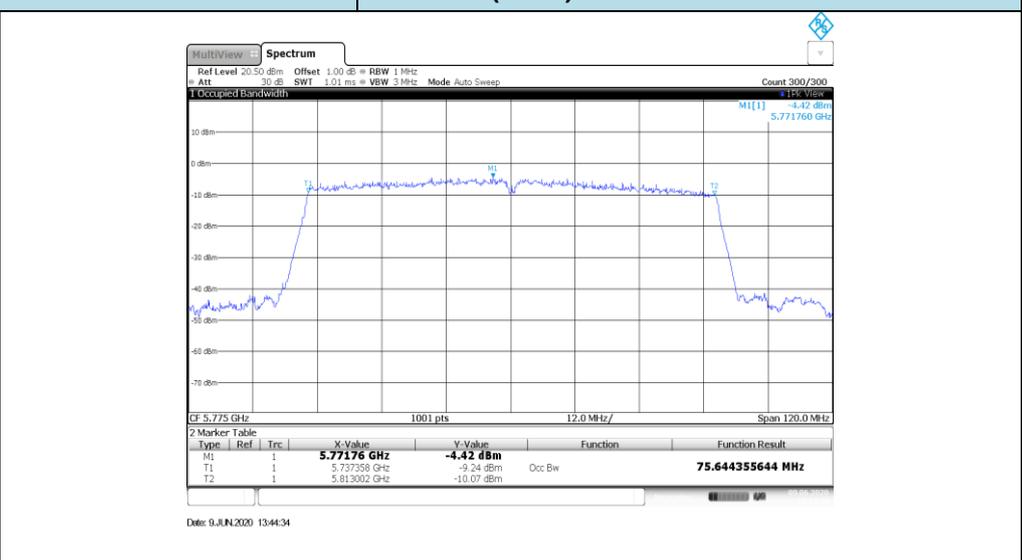


CH_H



Band IV **802.11ac (HT80)**

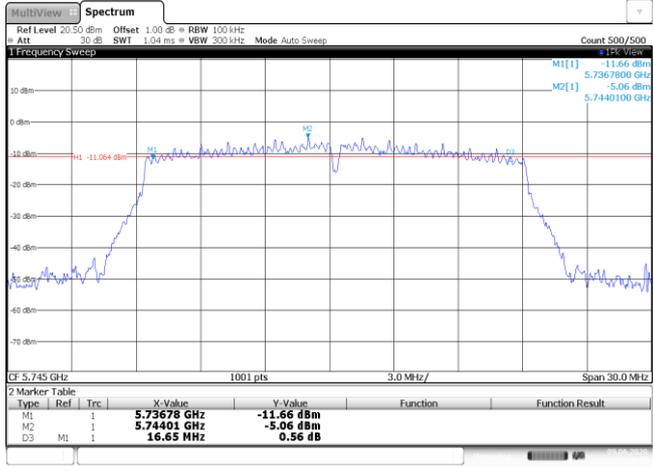
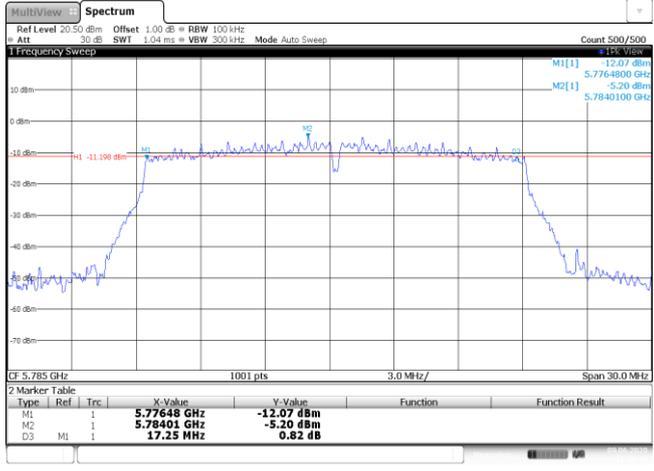
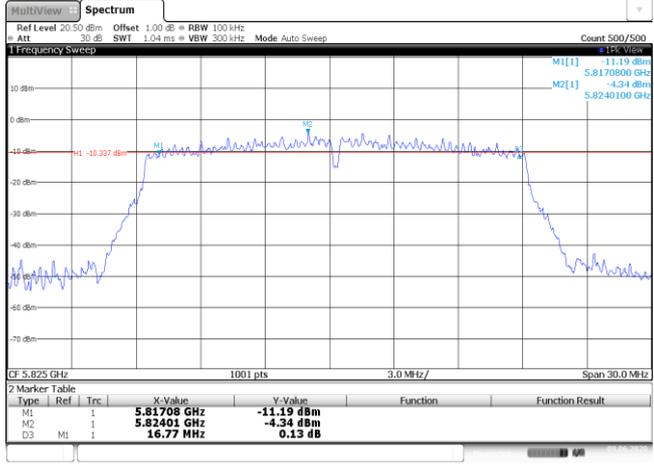
CH_M



Appendix E: 6dB Bandwidth

Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	16.35	Pass
			CH _M	17.04	
			CH _H	17.07	
		802.11n	CH _L	16.65	Pass
			CH _M	17.25	
			CH _H	16.77	
		802.11a	CH _L	15.21	Pass
			CH _M	15.18	
			CH _H	15.18	
	40	802.11ac	CH _L	35.22	Pass
			CH _H	35.22	
		802.11n	CH _L	35.30	Pass
			CH _H	35.30	
80	802.11ac	CH _M	75.72	Pass	

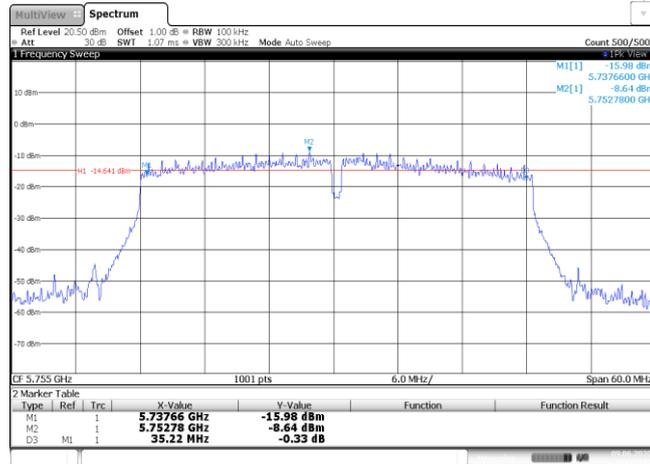
Test channel	802.11ac (HT20)																												
CH _L	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Count 500/500 Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>1 Frequency Sweep M1[1] -11.45 dBm 5.7368100 GHz M2[1] -5.31 dBm 5.7440100 GHz</p> <p>CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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></td> <td>5.73681 GHz</td> <td>-11.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.74401 GHz</td> <td>-5.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.35 MHz</td> <td>-0.31 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 13:27:30</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73681 GHz	-11.45 dBm			M2	1		5.74401 GHz	-5.31 dBm			D3	M1	1	16.35 MHz	-0.31 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73681 GHz	-11.45 dBm																									
M2	1		5.74401 GHz	-5.31 dBm																									
D3	M1	1	16.35 MHz	-0.31 dB																									
CH _M	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Count 500/500 Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>1 Frequency Sweep M1[1] -11.82 dBm 5.7767500 GHz M2[1] -5.60 dBm 5.7840100 GHz</p> <p>CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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></td> <td>5.77675 GHz</td> <td>-11.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.78401 GHz</td> <td>-5.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.04 MHz</td> <td>-0.59 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 13:31:32</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.77675 GHz	-11.82 dBm			M2	1		5.78401 GHz	-5.60 dBm			D3	M1	1	17.04 MHz	-0.59 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.77675 GHz	-11.82 dBm																									
M2	1		5.78401 GHz	-5.60 dBm																									
D3	M1	1	17.04 MHz	-0.59 dB																									
CH _H	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Count 500/500 Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>1 Frequency Sweep M1[1] -11.58 dBm 5.8167800 GHz M2[1] -4.70 dBm 5.8240100 GHz</p> <p>CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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></td> <td>5.81678 GHz</td> <td>-11.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.82401 GHz</td> <td>-4.70 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.07 MHz</td> <td>-0.38 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 13:33:37</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.81678 GHz	-11.58 dBm			M2	1		5.82401 GHz	-4.70 dBm			D3	M1	1	17.07 MHz	-0.38 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.81678 GHz	-11.58 dBm																									
M2	1		5.82401 GHz	-4.70 dBm																									
D3	M1	1	17.07 MHz	-0.38 dB																									

Test channel	802.11n (HT20)																												
CH _L	 <p>Marker Table</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></td> <td>5.73678 GHz</td> <td>-11.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.74401 GHz</td> <td>-5.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.65 MHz</td> <td>0.56 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 11:28:16</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73678 GHz	-11.66 dBm			M2	1		5.74401 GHz	-5.06 dBm			D3	M1	1	16.65 MHz	0.56 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73678 GHz	-11.66 dBm																									
M2	1		5.74401 GHz	-5.06 dBm																									
D3	M1	1	16.65 MHz	0.56 dB																									
CH _M	 <p>Marker Table</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></td> <td>5.77648 GHz</td> <td>-12.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.78401 GHz</td> <td>-5.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.25 MHz</td> <td>0.82 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 11:34:15</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.77648 GHz	-12.07 dBm			M2	1		5.78401 GHz	-5.20 dBm			D3	M1	1	17.25 MHz	0.82 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.77648 GHz	-12.07 dBm																									
M2	1		5.78401 GHz	-5.20 dBm																									
D3	M1	1	17.25 MHz	0.82 dB																									
CH _H	 <p>Marker Table</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></td> <td>5.81708 GHz</td> <td>-11.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.82401 GHz</td> <td>-4.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.77 MHz</td> <td>0.13 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 11:36:15</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.81708 GHz	-11.19 dBm			M2	1		5.82401 GHz	-4.34 dBm			D3	M1	1	16.77 MHz	0.13 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.81708 GHz	-11.19 dBm																									
M2	1		5.82401 GHz	-4.34 dBm																									
D3	M1	1	16.77 MHz	0.13 dB																									

Test channel	802.11a																												
CH _L	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Count 500/500 Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>1 Frequency Sweep CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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></td> <td>5.73768 GHz</td> <td>-10.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.74401 GHz</td> <td>-3.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>15.21 MHz</td> <td>-1.63 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 11:20:32</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73768 GHz	-10.54 dBm			M2	1		5.74401 GHz	-3.55 dBm			D3	M1	1	15.21 MHz	-1.63 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73768 GHz	-10.54 dBm																									
M2	1		5.74401 GHz	-3.55 dBm																									
D3	M1	1	15.21 MHz	-1.63 dB																									
CH _M	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Count 500/500 Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>1 Frequency Sweep CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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></td> <td>5.77771 GHz</td> <td>-9.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.78401 GHz</td> <td>-3.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>15.18 MHz</td> <td>-1.67 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 11:21:27</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.77771 GHz	-9.90 dBm			M2	1		5.78401 GHz	-3.79 dBm			D3	M1	1	15.18 MHz	-1.67 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.77771 GHz	-9.90 dBm																									
M2	1		5.78401 GHz	-3.79 dBm																									
D3	M1	1	15.18 MHz	-1.67 dB																									
CH _H	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Count 500/500 Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>1 Frequency Sweep CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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></td> <td>5.81771 GHz</td> <td>-8.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>5.82404 GHz</td> <td>-2.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>15.18 MHz</td> <td>-1.94 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9.JUN.2020 11:23:31</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.81771 GHz	-8.96 dBm			M2	1		5.82404 GHz	-2.87 dBm			D3	M1	1	15.18 MHz	-1.94 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.81771 GHz	-8.96 dBm																									
M2	1		5.82404 GHz	-2.87 dBm																									
D3	M1	1	15.18 MHz	-1.94 dB																									

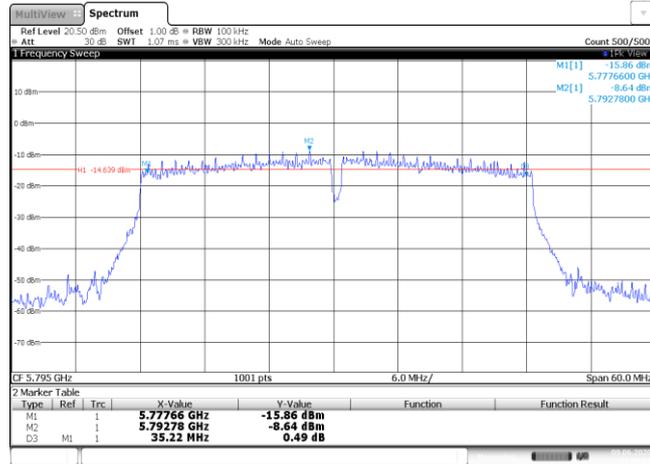
Test channel **802.11ac (HT40)**

CH_L



Date: 9.JUN.2020 13:37:40

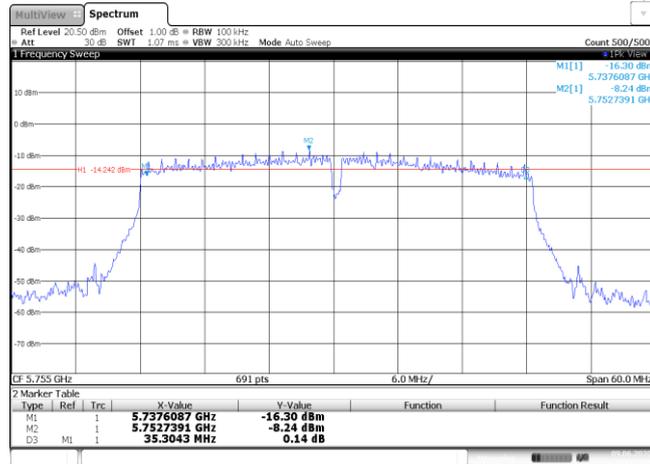
CH_H



Date: 9.JUN.2020 13:38:04

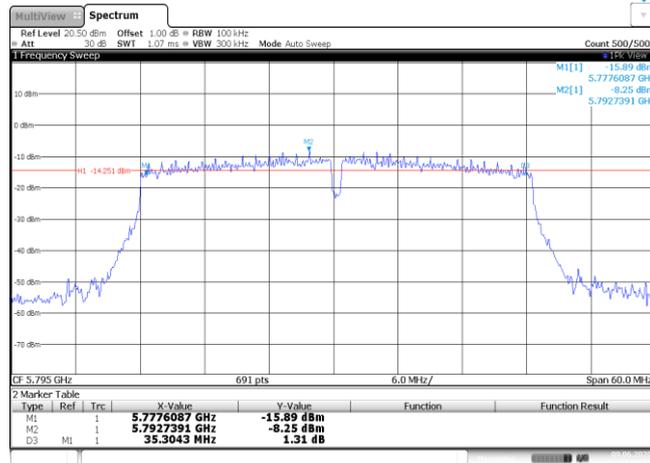
Test channel **802.11n (HT40)**

CH_L



Date: 9.JUN.2020 13:21:37

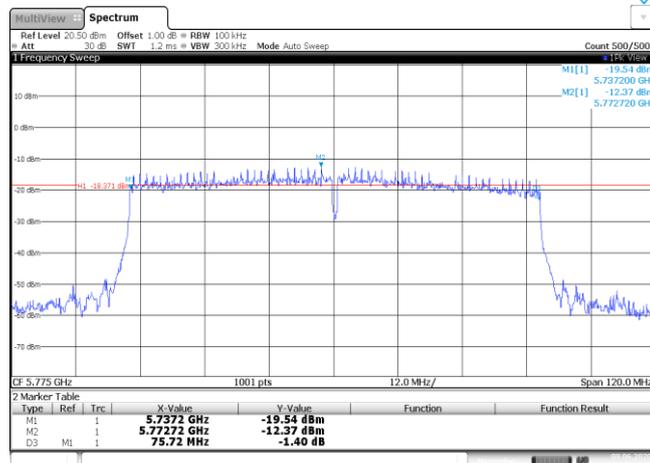
CH_H



Date: 9.JUN.2020 13:22:41

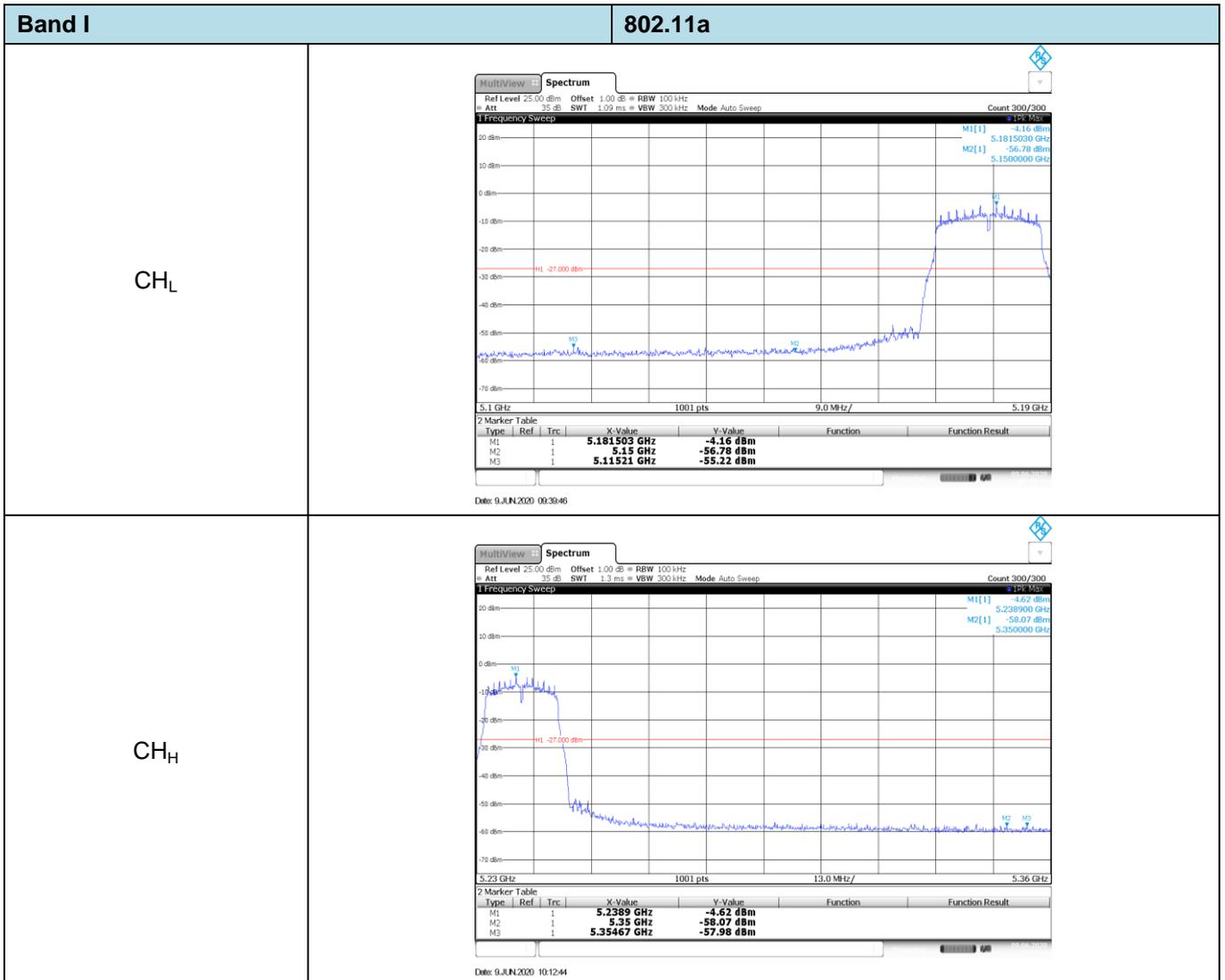
Test channel **802.11ac (HT80)**

CH_M



Date: 9.JUN.2020 13:44:43

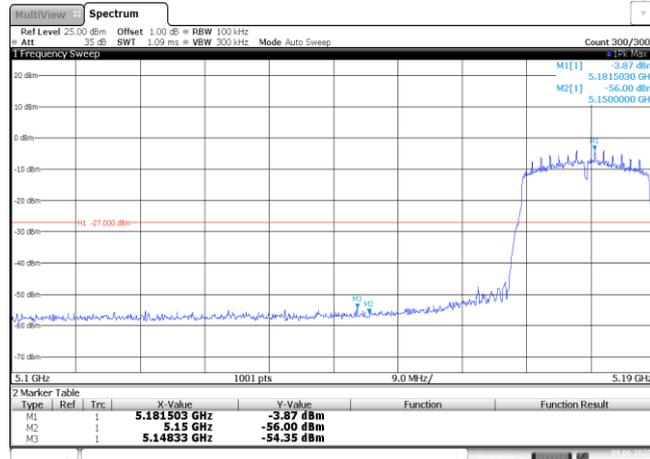
Appendix F: Band edge



Band I

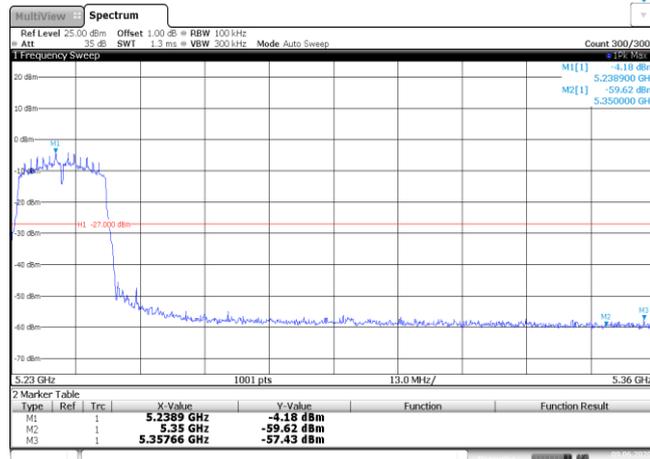
802.11n (HT20)

CH_L

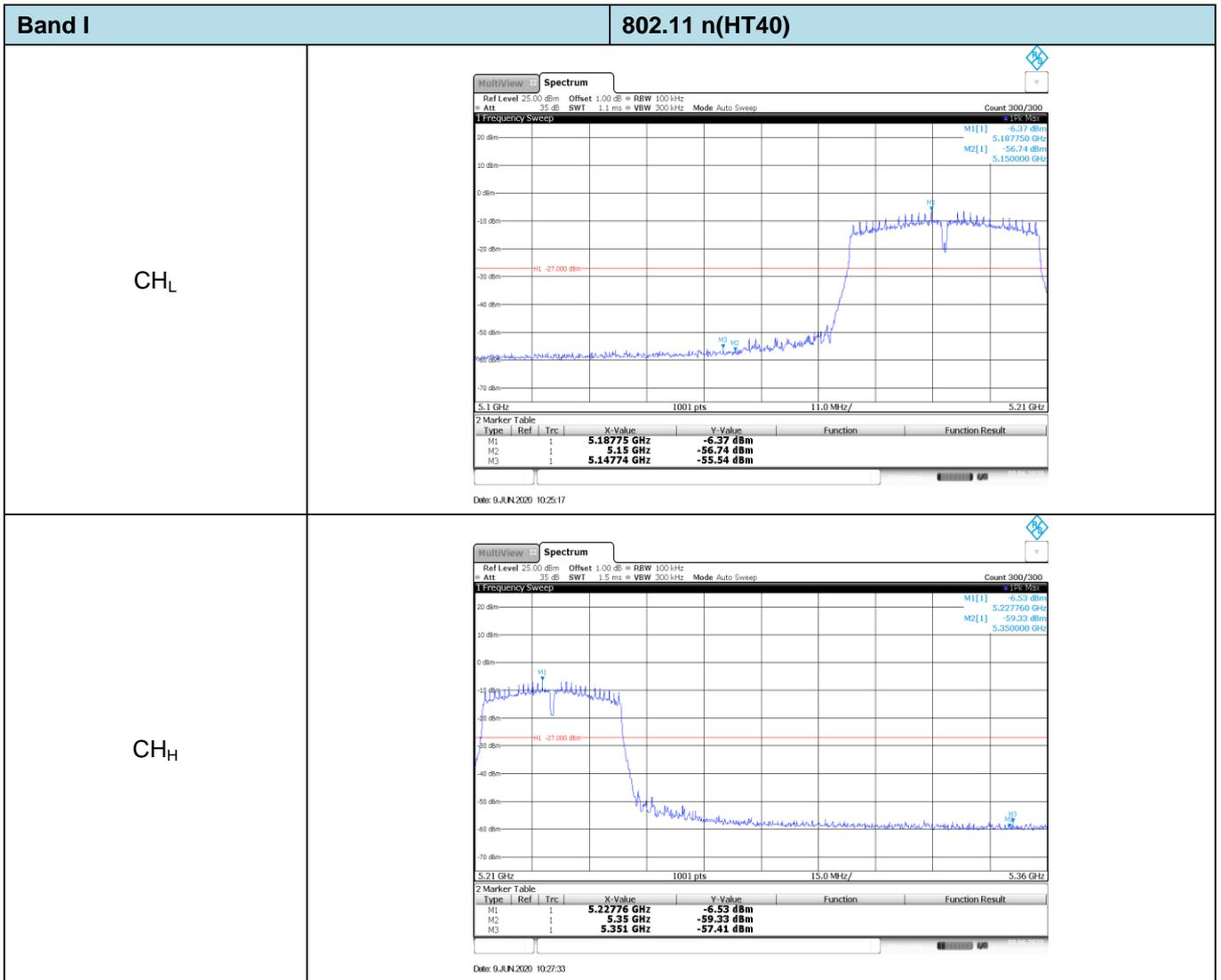


Date: 9 JUN 2020 10:16:10

CH_H



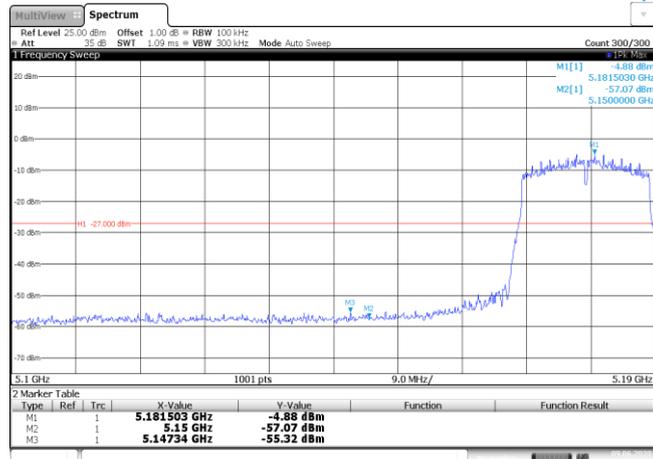
Date: 9 JUN 2020 10:23:12



Band I

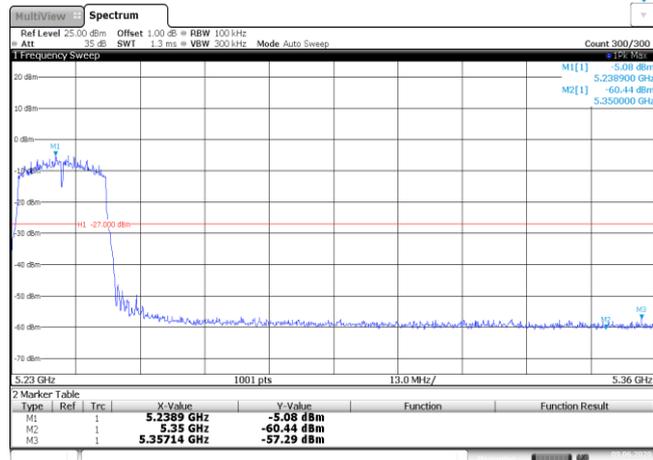
802.11ac (HT20)

CH_L



Date: 9 JUN 2020 10:34:10

CH_H

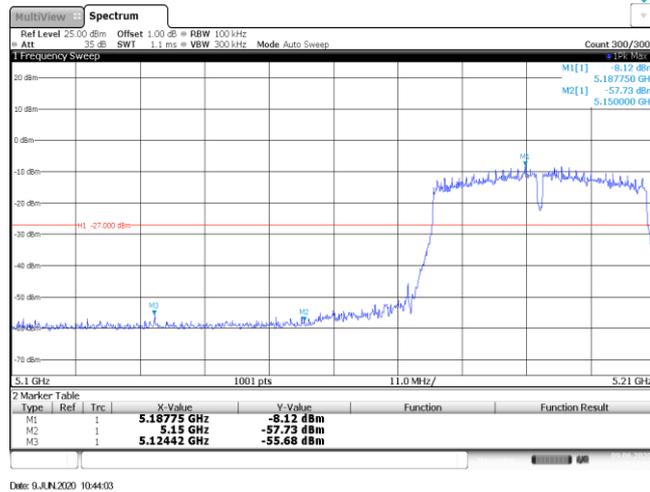


Date: 9 JUN 2020 10:38:25

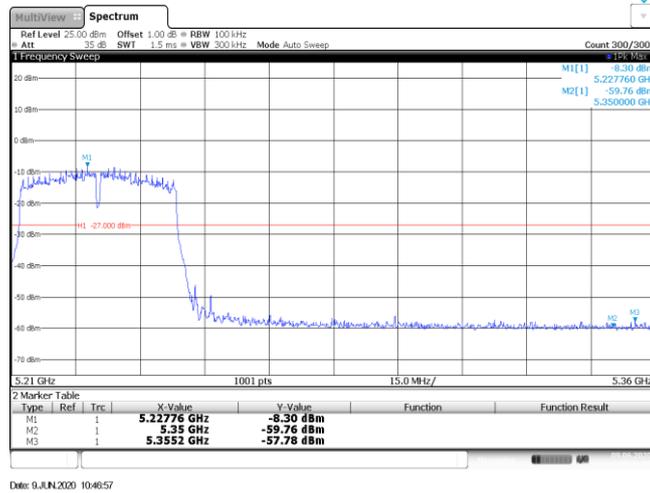
Band I

802.11 ac(HT40)

CH_L



CH_H



Band IV

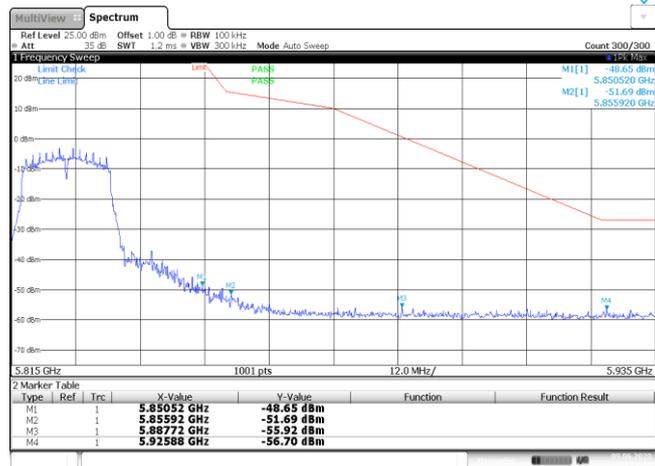
802.11a

CH_L



Date: 9 JUN 2020 11:19:47

CH_H

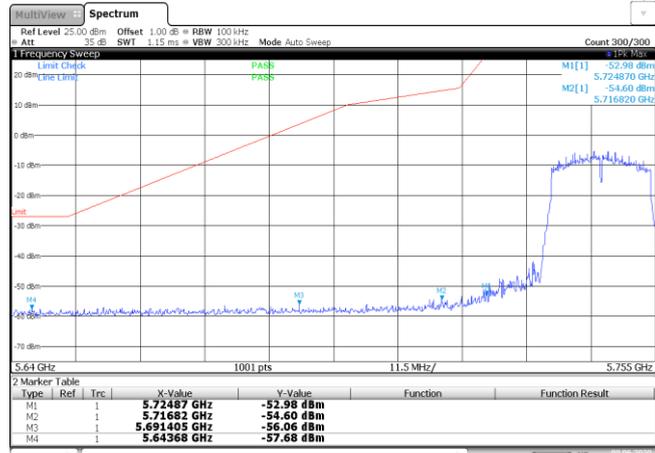


Date: 9 JUN 2020 11:24:24

Band IV

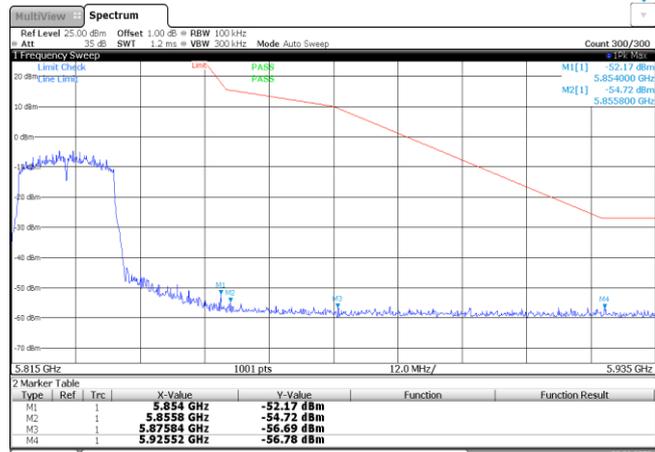
802.11n (HT20)

CH_L



Date: 9 JUN 2020 11:27:40

CH_H

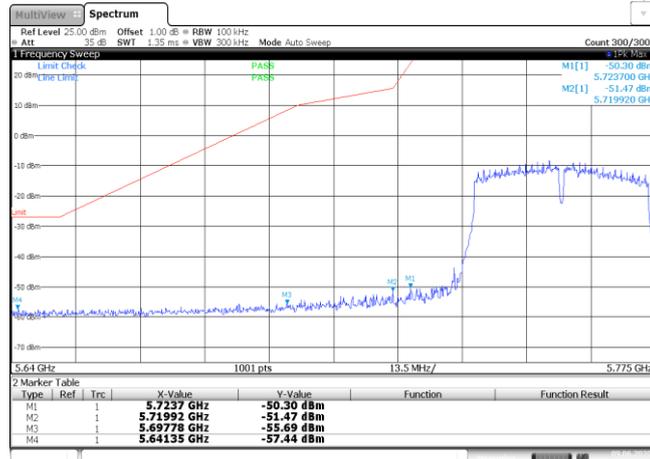


Date: 9 JUN 2020 11:37:00

Band IV

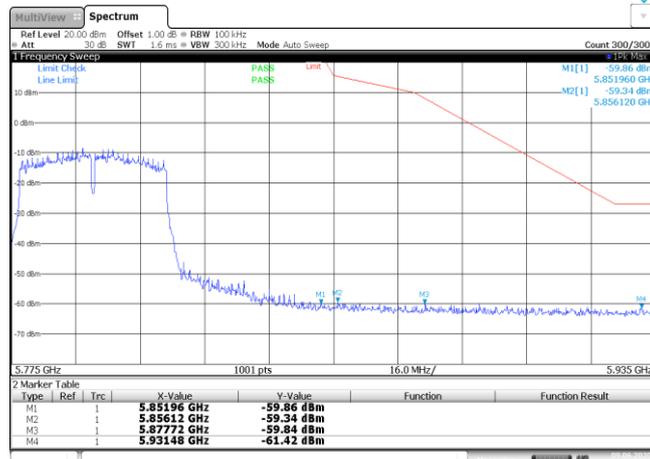
802.11 n(HT40)

CH_L



Date: 9 JUN 2020 13:21:01

CH_H

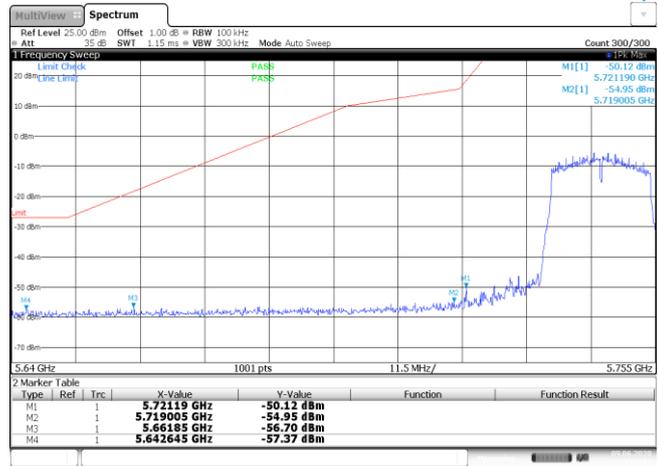


Date: 9 JUN 2020 13:23:37

Band IV

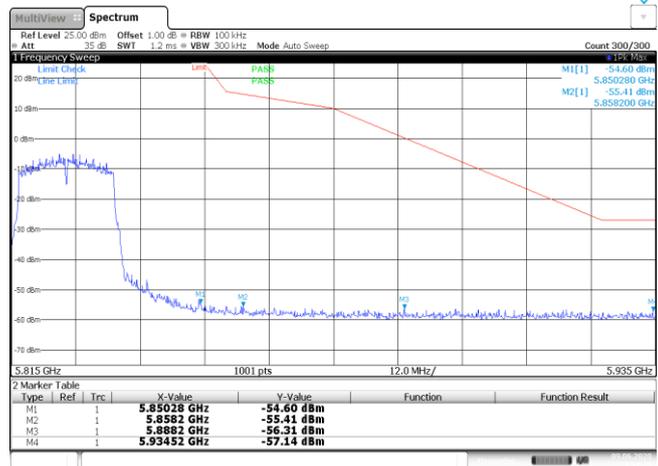
802.11ac(HT20)

CH_L

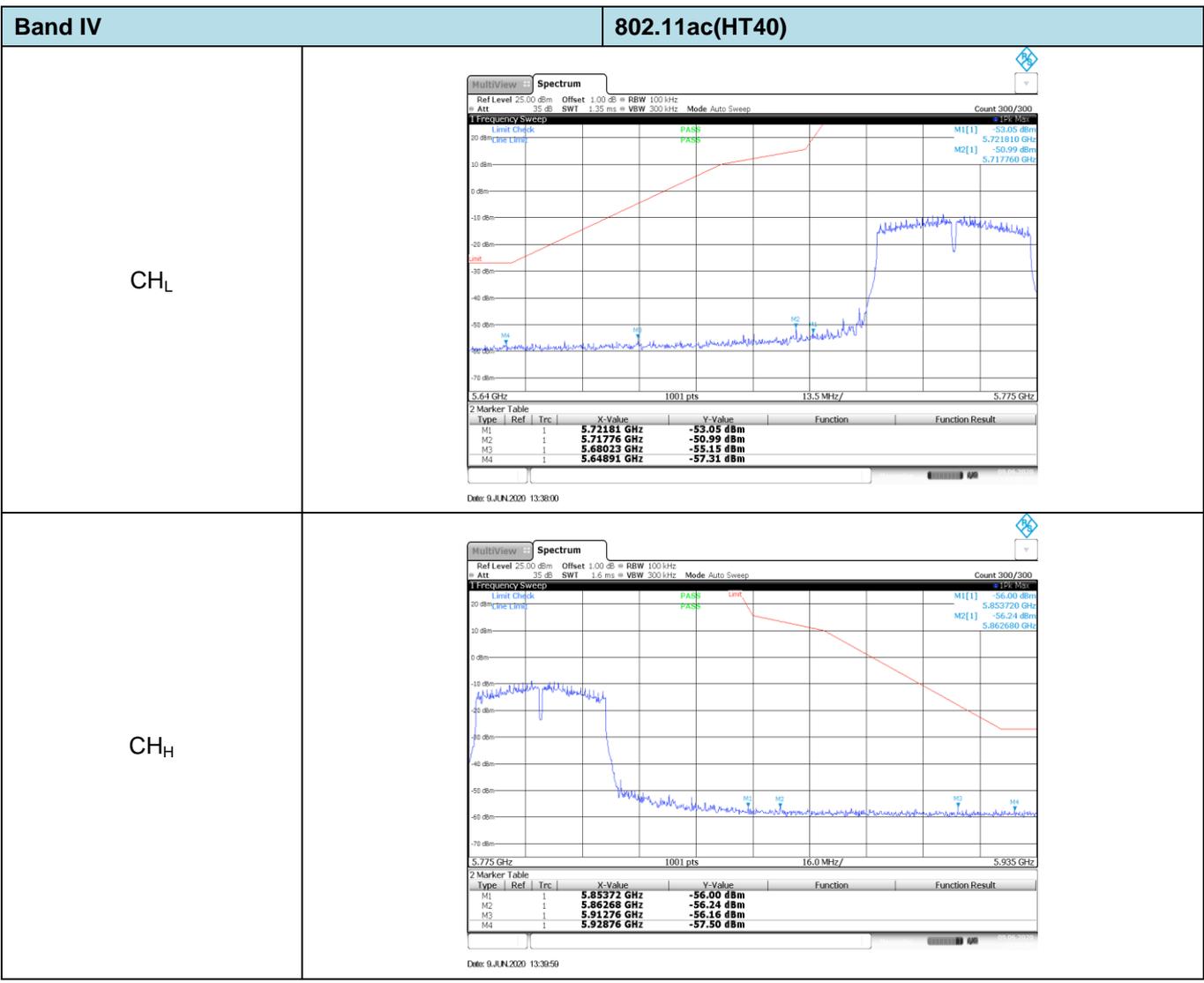


Date: 9 JUN 2020 13:26:53

CH_H



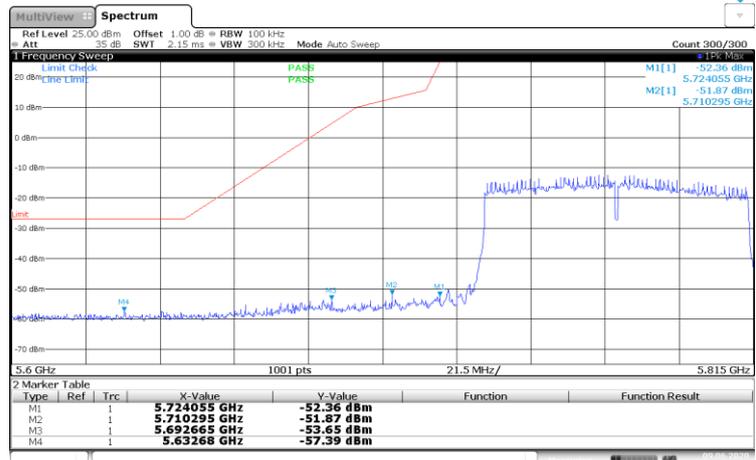
Date: 9 JUN 2020 13:34:34



Band IV

802.11ac(HT80)

CH_L



Date: 9.JUL.2020 13:45:46

Appendix G: Frequency stability**Voltage VS Frequency stability**

Band: I			Test Frequency: 5180.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	262700.00	50.71429	PASS
T _N	V _N	262700.00	50.71429	PASS
T _N	V _H	261700.00	50.52124	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	291700.00	50.77459	PASS
T _N	V _N	291700.00	50.77459	PASS
T _N	V _H	291700.00	50.77459	PASS

Temperature VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	261700.00	50.52124	PASS
V _N	-10	261700.00	50.52124	PASS
V _N	0	261700.00	50.52124	PASS
V _N	10	261700.00	50.52124	PASS
V _N	20	261700.00	50.52124	PASS
V _N	30	261700.00	50.52124	PASS
V _N	40	261700.00	50.52124	PASS
V _N	50	261700.00	50.52124	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	291700.00	50.77459	PASS
V _N	-10	291700.00	50.77459	PASS
V _N	0	291700.00	50.77459	PASS
V _N	10	291700.00	50.77459	PASS
V _N	20	291700.00	50.77459	PASS
V _N	30	291700.00	50.77459	PASS
V _N	40	290700.00	50.60052	PASS
V _N	50	290700.00	50.60052	PASS

-----End of Report-----