

APPENDIX REPORT

Project No.	SHT2011032203EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20110322004	Model No.	AR3XAT00
Start test date	2021-02-02	Finish date	2021-02-02
Temperature	23.5°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

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

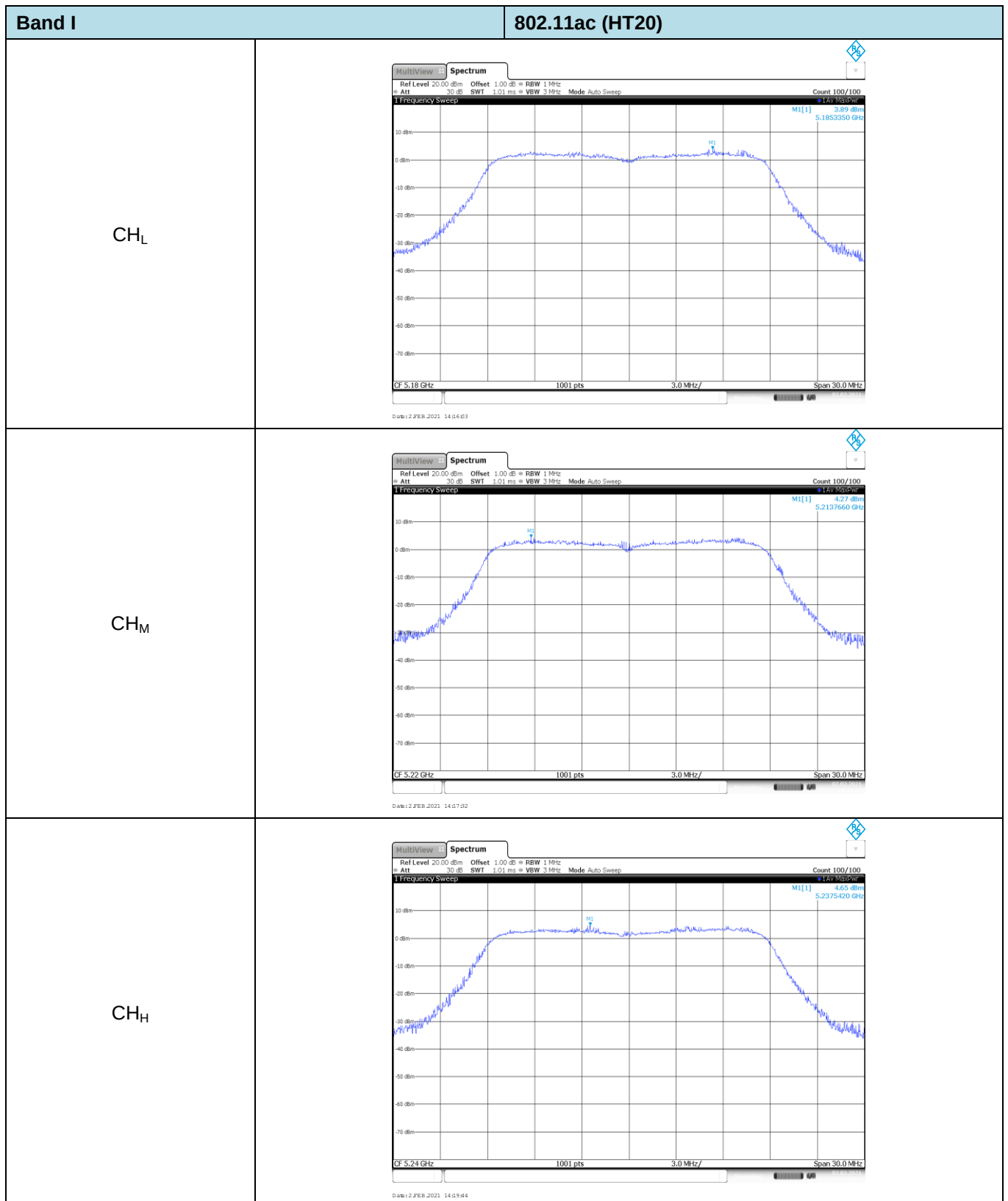
Appendix A: Maximum Conducted Output Power

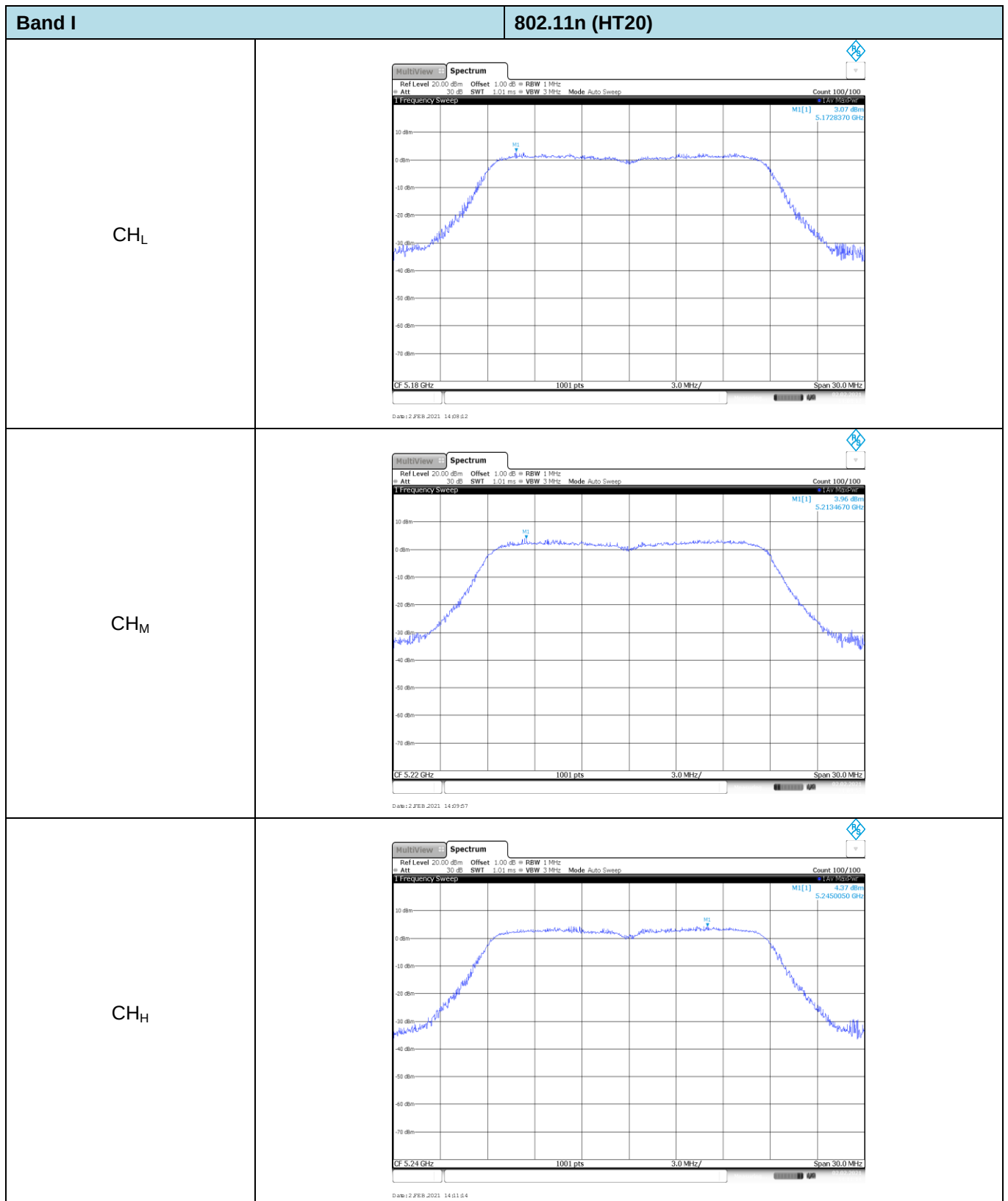
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH _L	13.30	98.02	0.09	13.39	24.00	Pass
			CH _M	14.66	93.26	0.30	14.96		
			CH _H	15.46	93.26	0.30	15.76		
		802.11n	CH _L	13.03	97.08	0.13	13.16	24.00	Pass
			CH _M	14.32	97.08	0.13	14.45		
			CH _H	15.29	92.83	0.32	15.61		
		802.11a	CH _L	13.20	94.10	0.26	13.46	24.00	Pass
			CH _M	14.44	96.82	0.14	14.58		
			CH _H	15.45	95.25	0.21	15.66		
	40	802.11ac	CH _L	13.01	93.49	0.29	13.30	24.00	Pass
			CH _H	14.70	90.37	0.44	15.14		
		802.11n	CH _L	13.00	89.42	0.49	13.49	24.00	Pass
			CH _H	14.50	95.10	0.22	14.72		
	80	802.11ac	CH _M	13.95	79.33	1.01	14.96	24.00	Pass
IV	20	802.11ac	CH _L	14.21	94.59	0.24	14.45	30.00	Pass
			CH _M	13.93	93.33	0.30	14.23		
			CH _H	13.40	93.73	0.28	13.68		
		802.11n	CH _L	14.23	93.69	0.28	14.51	30.00	Pass
			CH _M	14.07	92.89	0.32	14.39		
			CH _H	13.64	93.23	0.30	13.94		
		802.11a	CH _L	13.92	94.86	0.23	14.15	30.00	Pass
			CH _M	13.87	92.93	0.32	14.19		
			CH _H	13.54	94.10	0.26	13.80		
	40	802.11ac	CH _L	13.75	89.68	0.47	14.22	30.00	Pass
			CH _H	13.58	91.19	0.40	13.98		
		802.11n	CH _L	13.71	85.16	0.70	14.41	30.00	Pass
			CH _H	14.43	91.90	0.37	14.80		
	80	802.11ac	CH _M	13.49	87.65	0.57	14.06	30.00	Pass

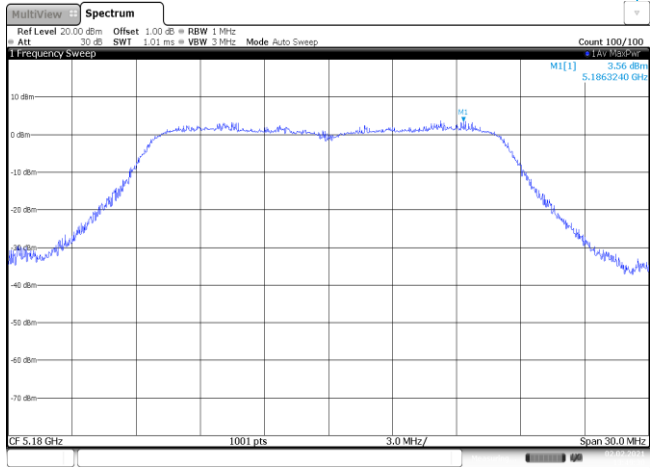
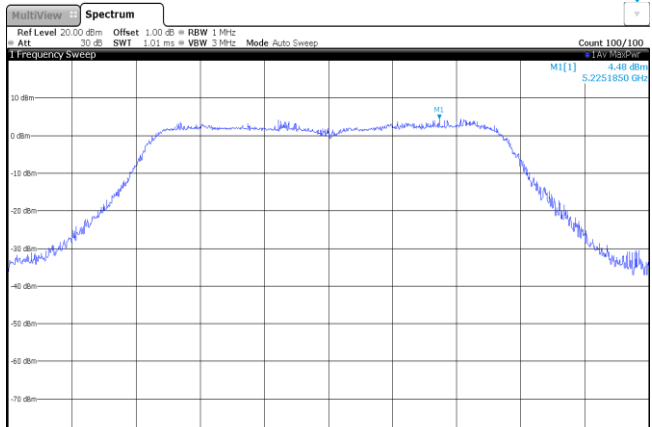
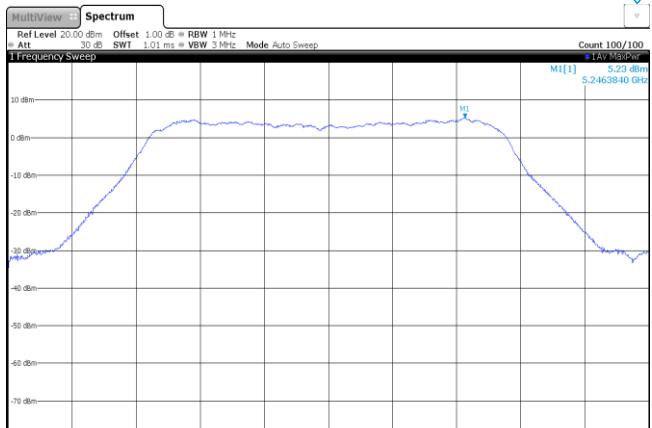
NOTE: duty cycle factor = 10LOG(1/ duty cycle)

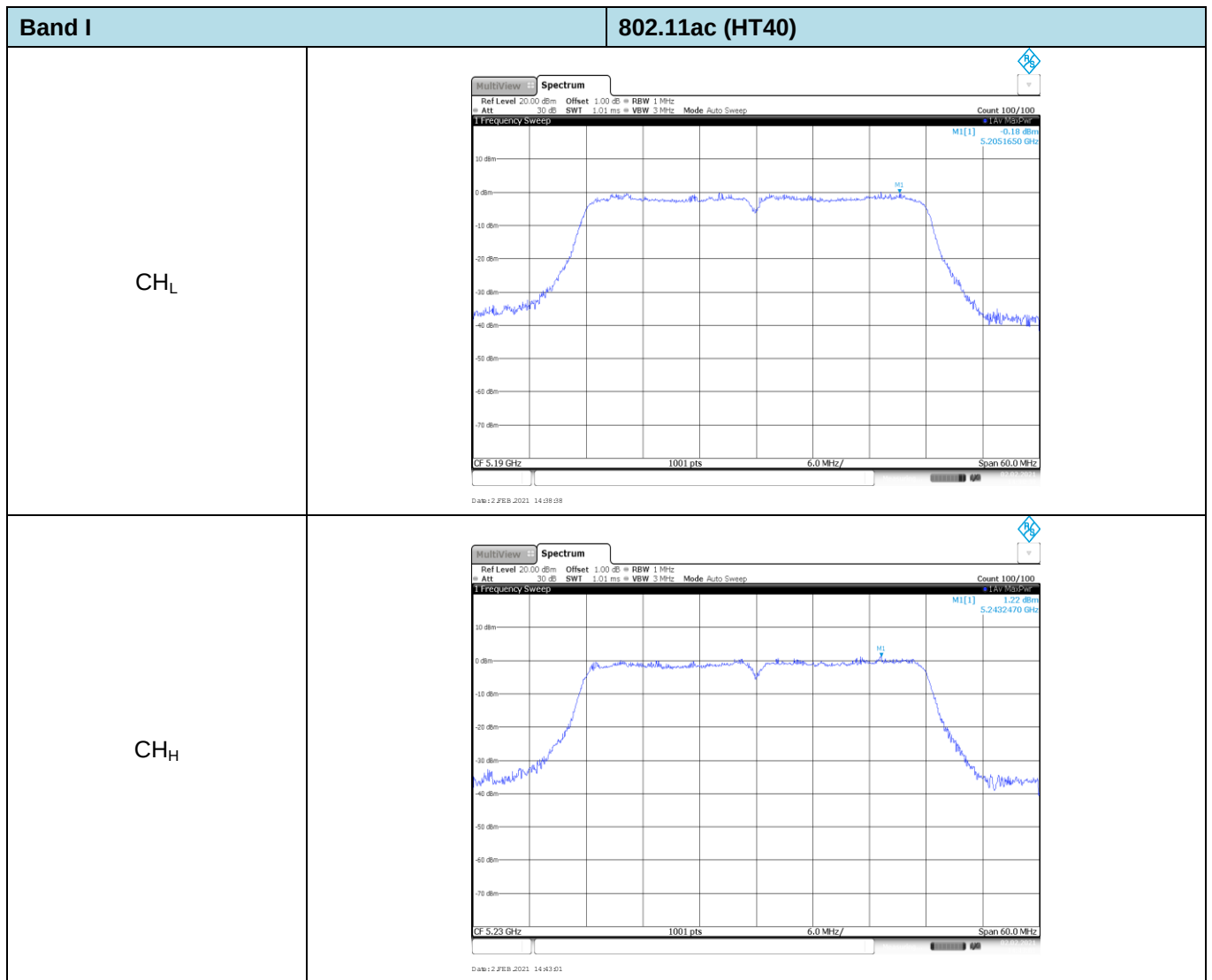
Appendix B: Maximum Power Spectral Density

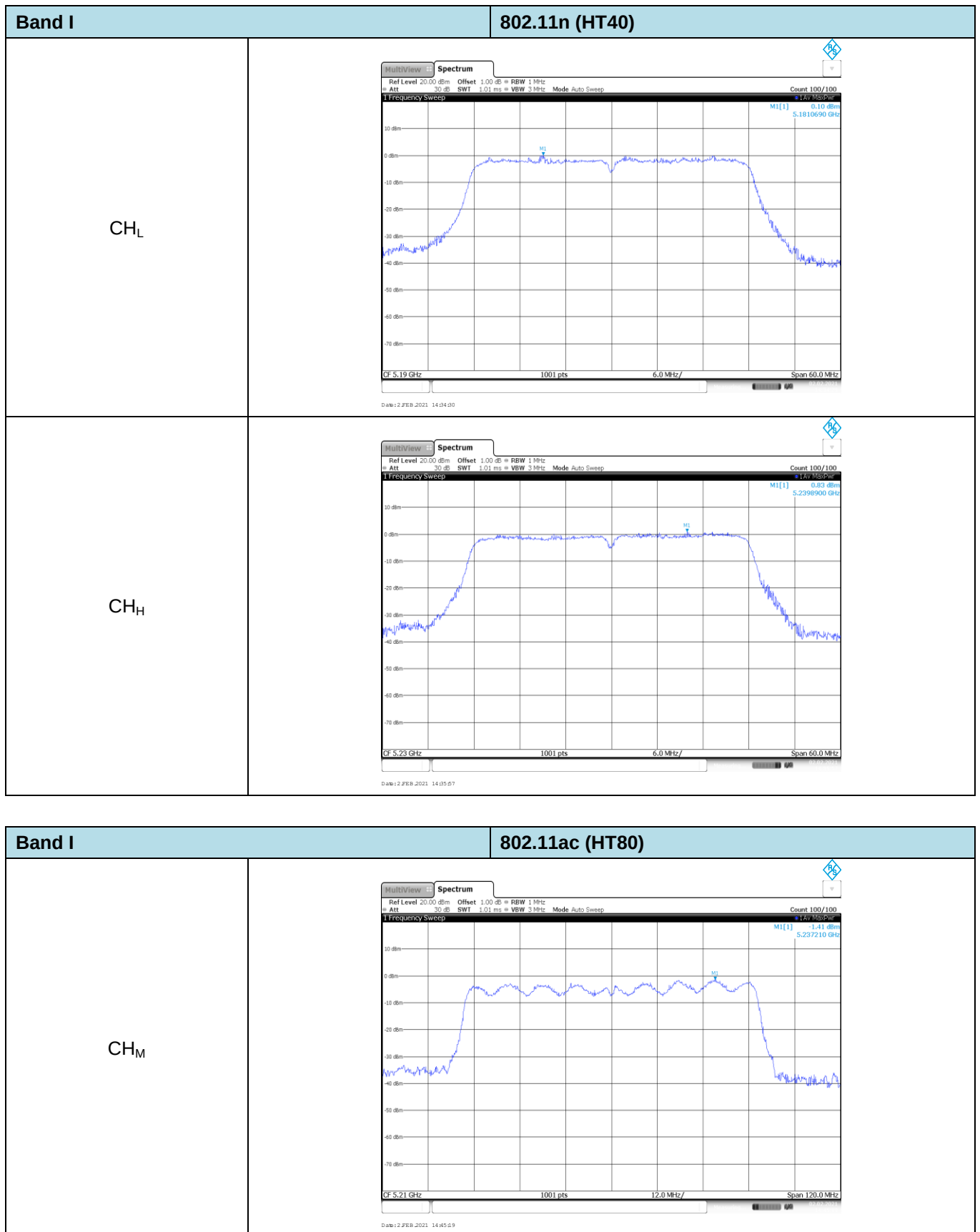
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH _L	3.89	98.02	0.09	3.98	11.00	Pass
			CH _M	4.27	93.26	0.30	4.57		
			CH _H	4.65	93.26	0.30	4.95		
		802.11n	CH _L	3.07	97.08	0.13	3.20	11.00	Pass
			CH _M	3.96	97.08	0.13	4.09		
			CH _H	4.37	92.83	0.32	4.69		
		802.11a	CH _L	3.56	94.10	0.26	3.82	11.00	Pass
			CH _M	4.48	96.82	0.14	4.62		
			CH _H	5.23	95.25	0.21	5.44		
	40	802.11ac	CH _L	-0.18	93.49	0.29	0.11	11.00	Pass
			CH _H	1.22	90.37	0.44	1.66		
		802.11n	CH _L	0.10	89.42	0.49	0.59	11.00	Pass
			CH _H	0.83	95.10	0.22	1.05		
	80	802.11ac	CH _M	-1.41	79.33	1.01	-0.40	11.00	Pass
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
IV	20	802.11ac	CH _L	1.54	94.59	0.24	1.78	30.00	Pass
			CH _M	1.93	93.33	0.30	2.23		
			CH _H	1.11	93.73	0.28	1.39		
		802.11n	CH _L	2.50	93.69	0.28	2.78	30.00	Pass
			CH _M	1.90	92.89	0.32	2.22		
			CH _H	1.25	93.23	0.30	1.55		
		802.11a	CH _L	1.64	94.86	0.23	1.87	30.00	Pass
			CH _M	2.65	92.93	0.32	2.97		
			CH _H	1.35	94.10	0.26	1.61		
	40	802.11ac	CH _L	-1.50	89.68	0.47	-1.03	30.00	Pass
			CH _H	-1.93	91.19	0.40	-1.53		
		802.11n	CH _L	-1.65	85.16	0.70	-0.95	30.00	Pass
			CH _H	-1.06	91.90	0.37	-0.69		
	80	802.11ac	CH _M	-3.66	87.65	0.57	-3.09	30.00	Pass





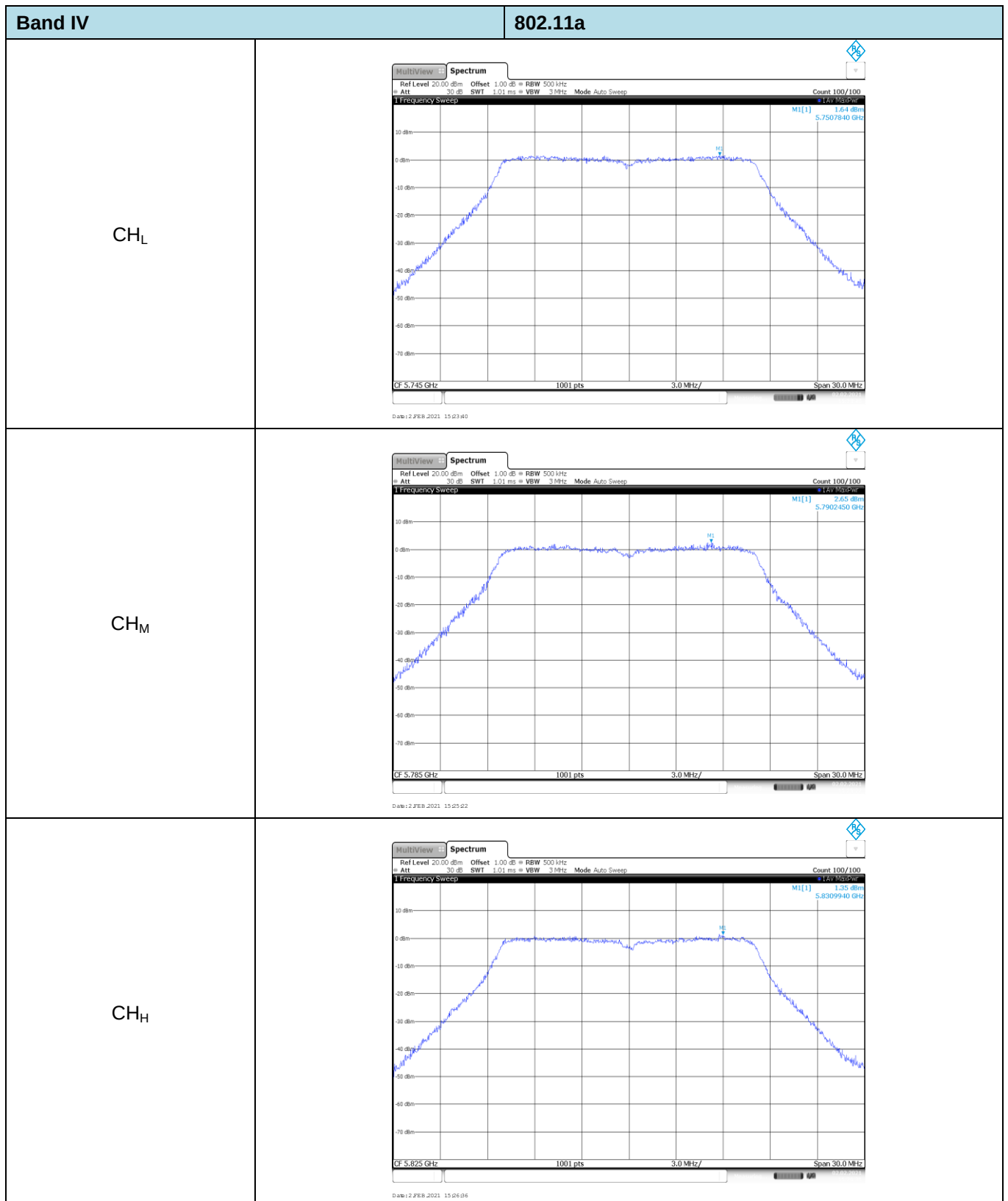
Band I	802.11a
CH _L	 CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2 FEB 2021 13:49:00
CH _M	 CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2 FEB 2021 13:01:04
CH _H	 CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2 FEB 2021 13:03:02

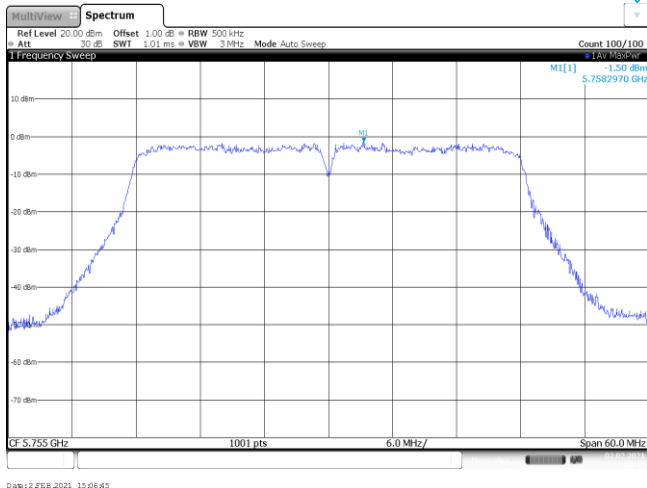
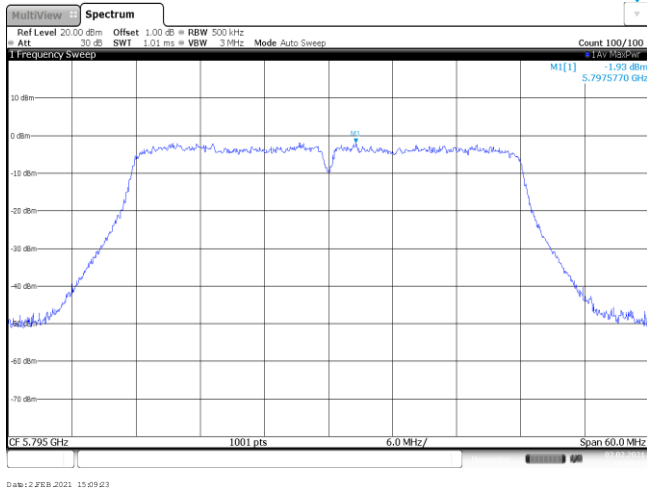


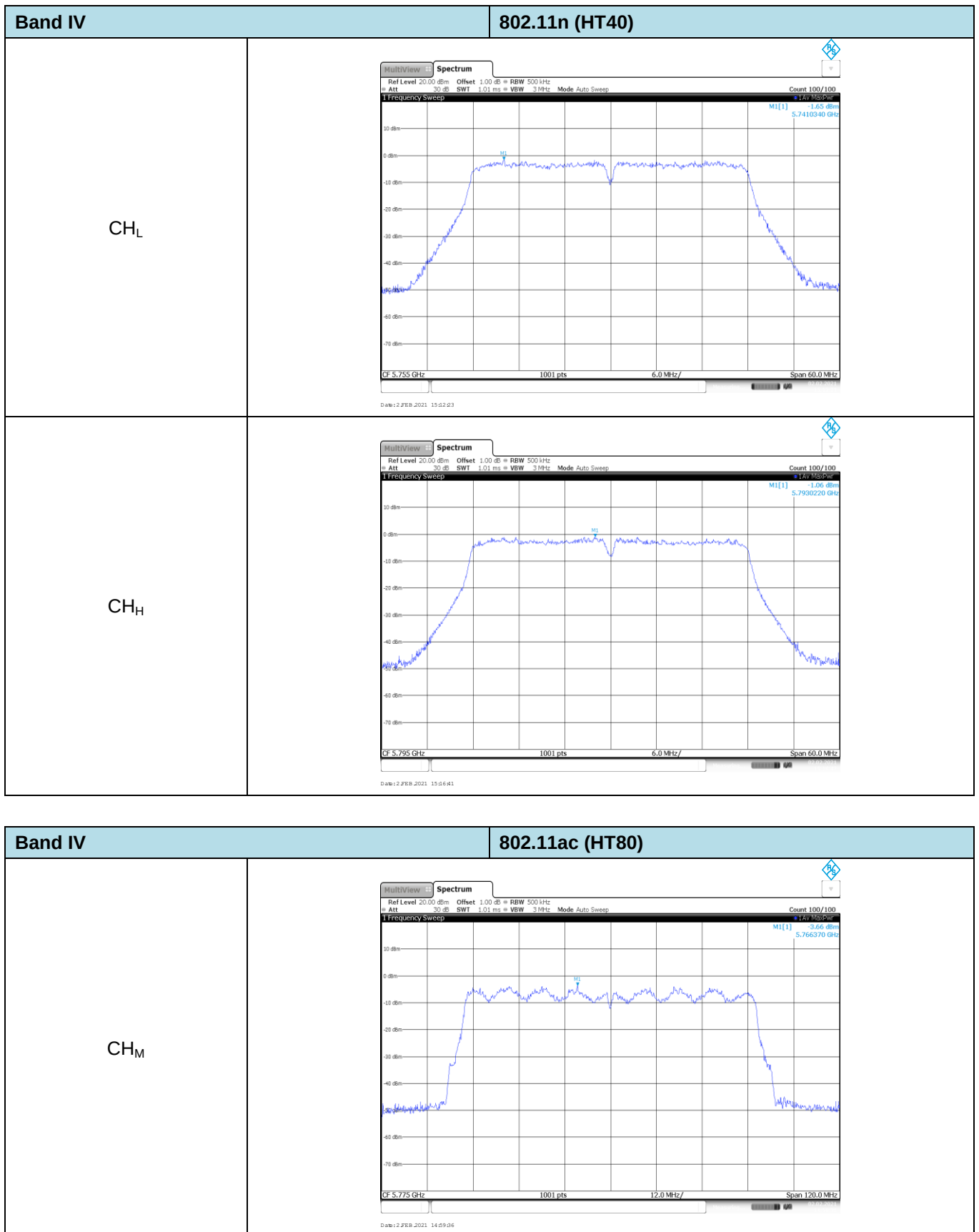


Band IV		802.11ac (HT20)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.54 dBm 5.7501850 GHz 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2.FEB.2021 15:47:51		
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.93 dBm 5.7821530 GHz 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2.FEB.2021 15:00:00		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.11 dBm 5.8226320 GHz 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2.FEB.2021 15:02:54		

Band IV		802.11n (HT20)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.50 dBm 5.7497050 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.745 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 2 FEB 2021 15:01:07		
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.90 dBm 5.7790960 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.785 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 2 FEB 2021 15:03:03		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.25 dBm 5.8308140 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.825 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 2 FEB 2021 15:05:20		

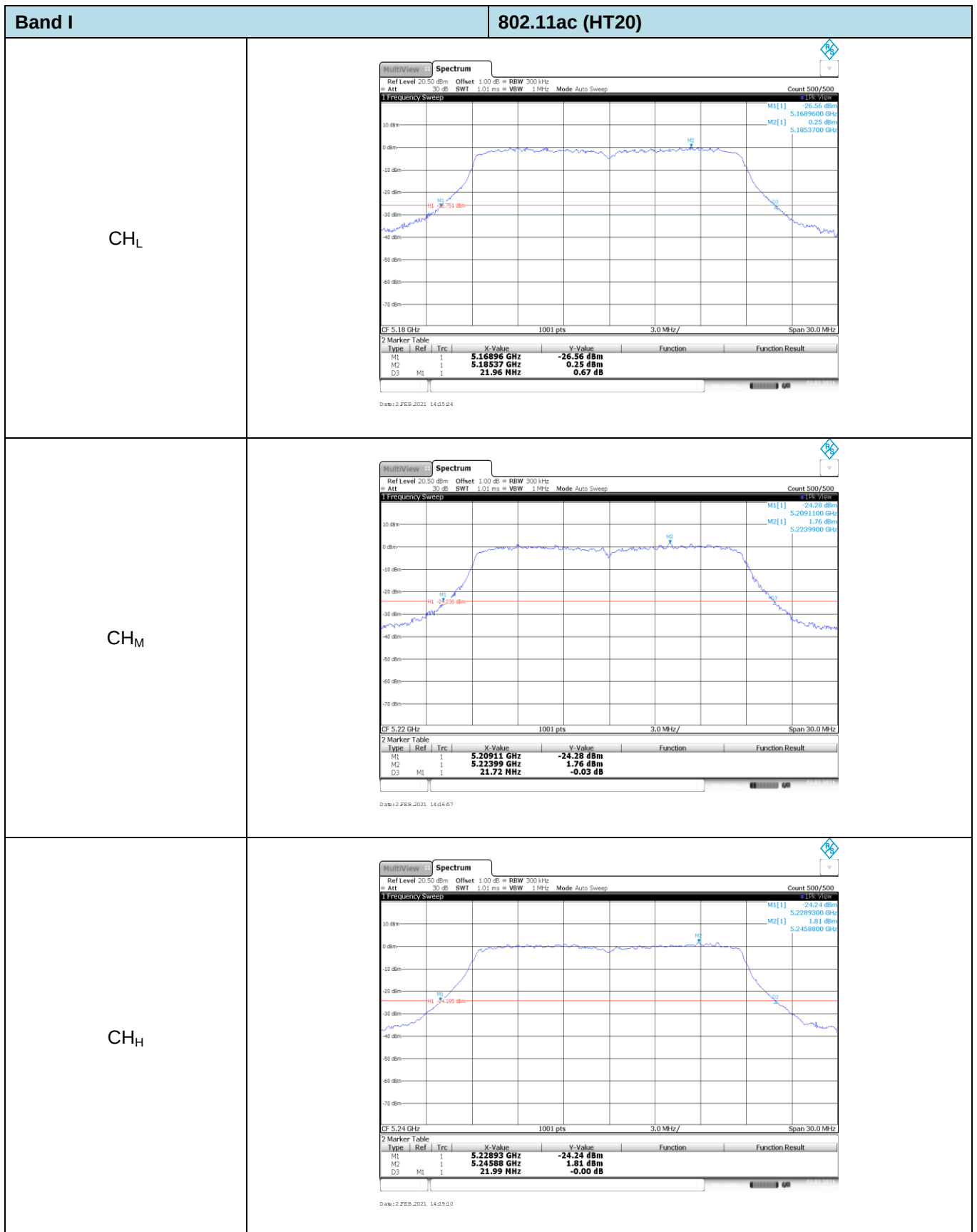


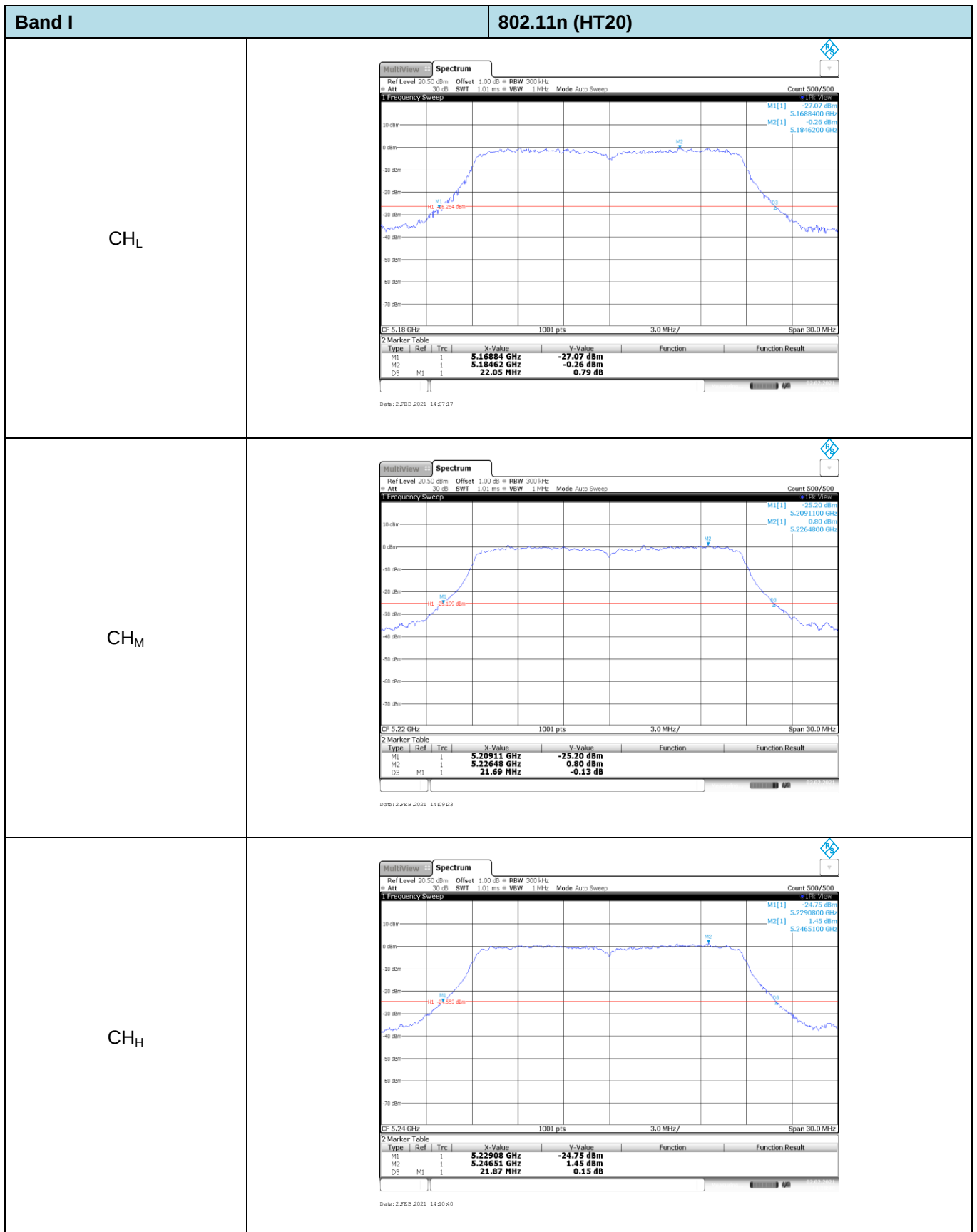
Band IV		802.11ac (HT40)
CH _L		
CH _H		

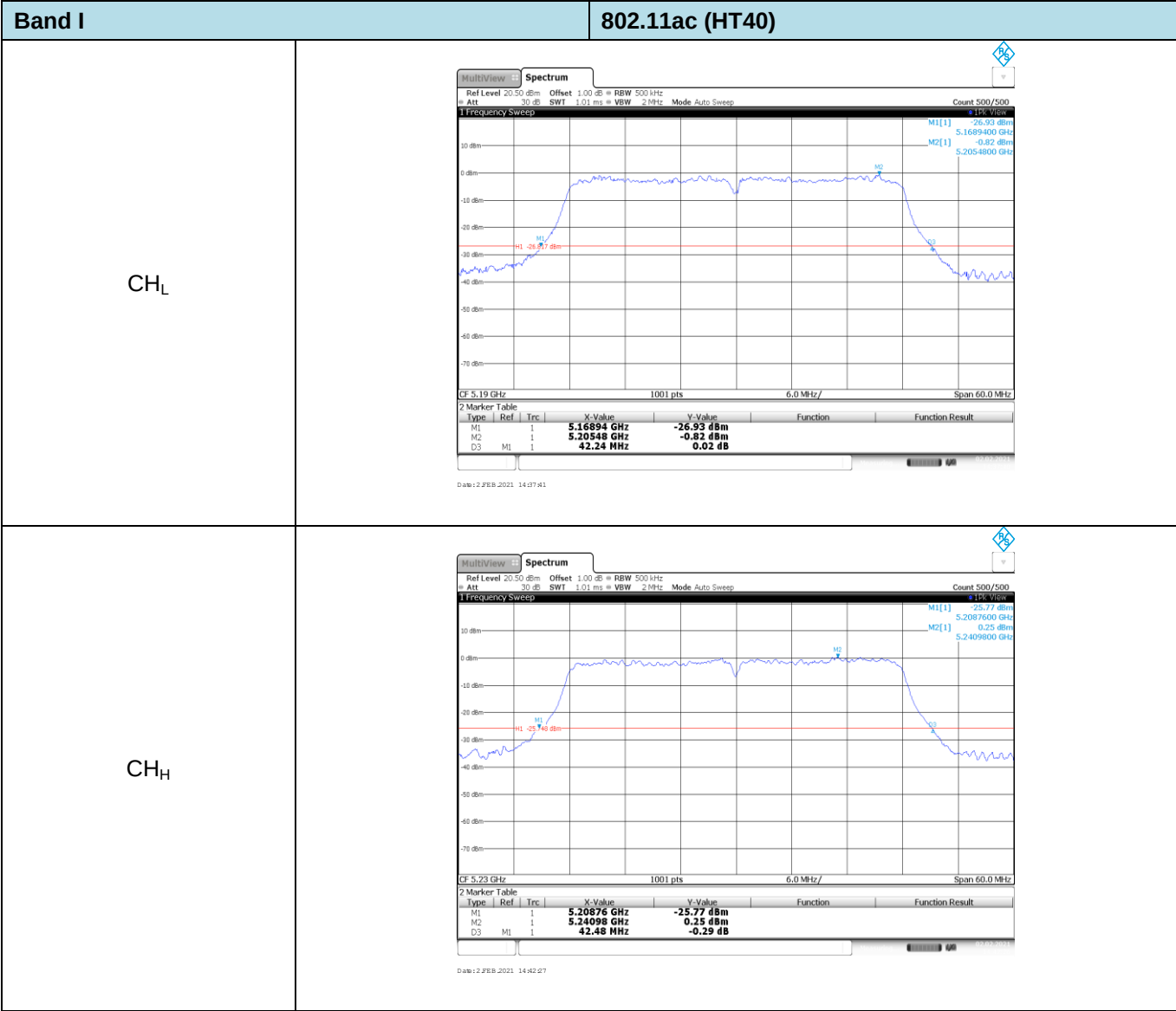


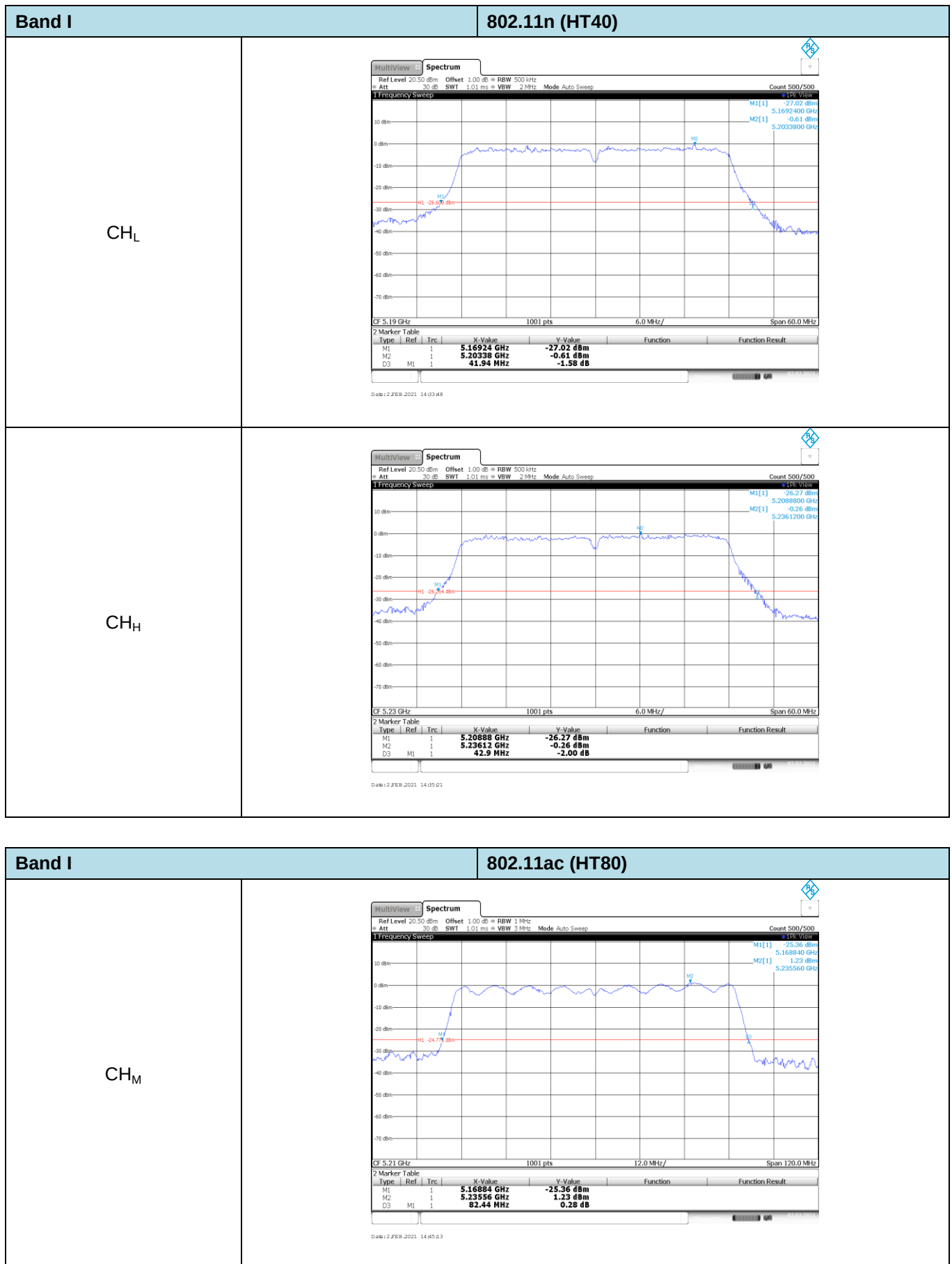
Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	21.96	Pass
			CH _M	21.72	
			CH _H	21.99	
		802.11n	CH _L	22.05	Pass
			CH _M	21.69	
			CH _H	21.87	
		802.11a	CH _L	21.15	Pass
			CH _M	21.60	
			CH _H	21.57	
	40	802.11ac	CH _L	42.24	Pass
			CH _H	42.48	
		802.11n	CH _L	41.94	Pass
			CH _H	42.90	
	80	802.11ac	CH _M	82.44	Pass







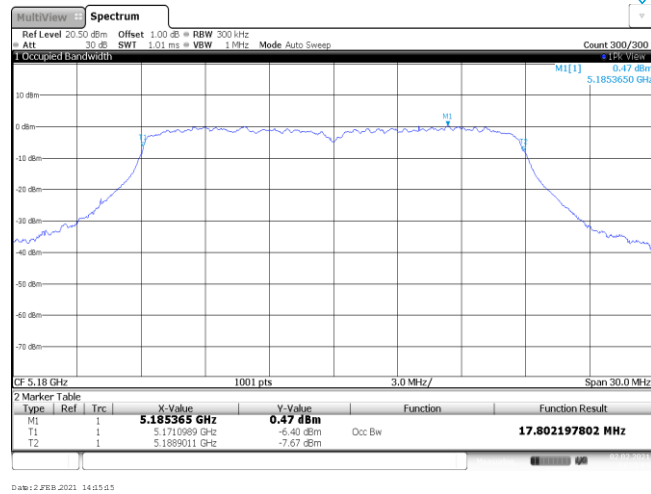
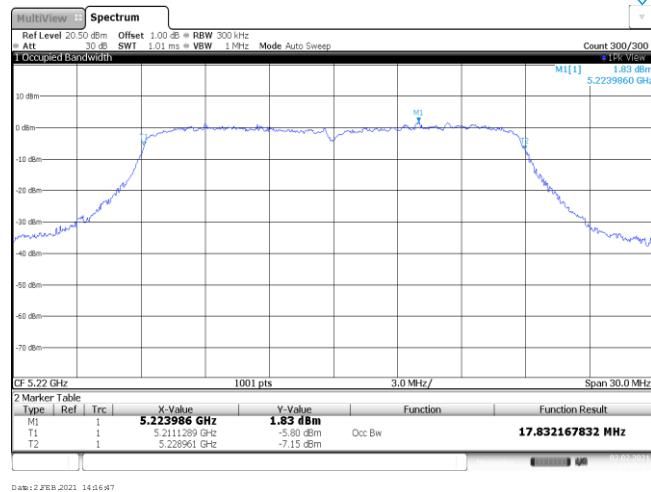
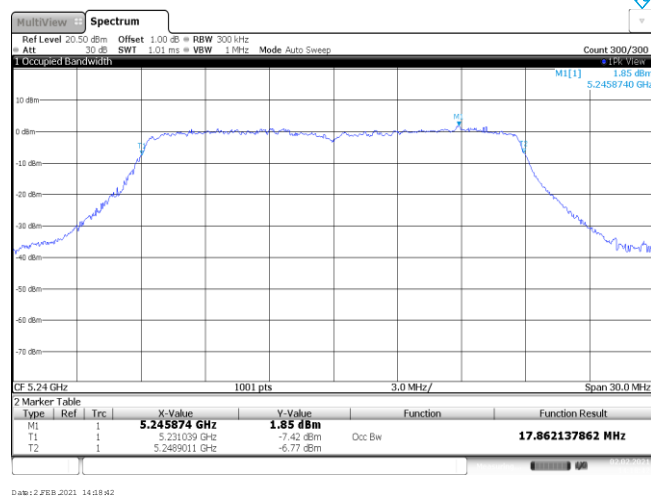


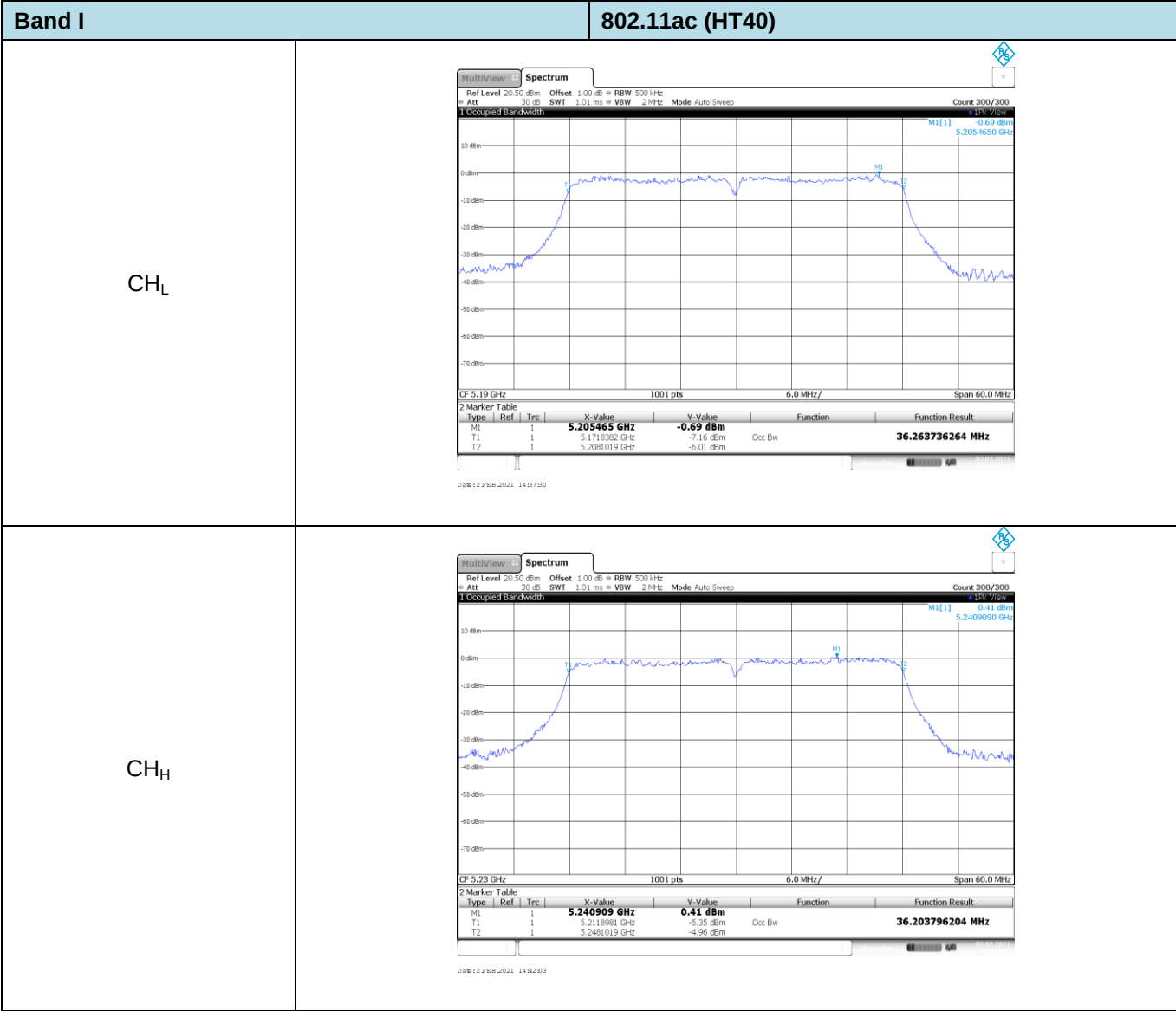
Appendix D: 99% Occupy bandwidth

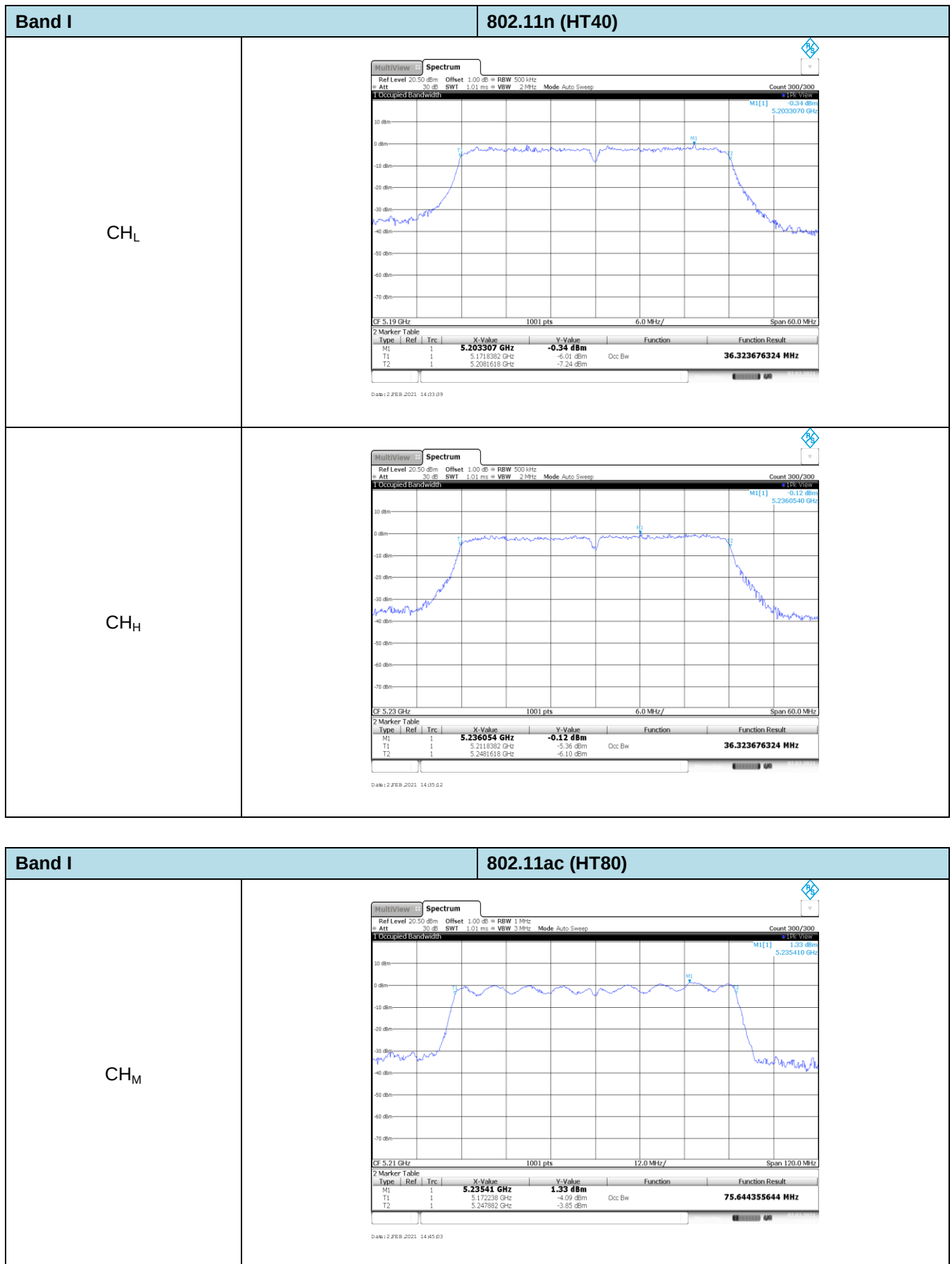
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.80	Pass
			CH _M	17.83	
			CH _H	17.86	
		802.11n	CH _L	17.86	Pass
			CH _M	17.83	
			CH _H	17.95	
		802.11a	CH _L	16.87	Pass
			CH _M	16.87	
			CH _H	16.81	
	40	802.11ac	CH _L	36.26	Pass
			CH _H	36.20	
		802.11n	CH _L	36.32	Pass
			CH _H	36.32	
	80	802.11ac	CH _M	75.64	Pass
IV	20	802.11ac	CH _L	17.68	Pass
			CH _M	17.83	
			CH _H	17.77	
		802.11n	CH _L	17.86	Pass
			CH _M	17.80	
			CH _H	17.98	
		802.11a	CH _L	16.87	Pass
			CH _M	16.87	
			CH _H	16.78	
	40	802.11ac	CH _L	36.26	Pass
			CH _H	36.26	
		802.11n	CH _L	36.47	Pass
			CH _H	36.21	
	80	802.11ac	CH _M	75.52	Pass

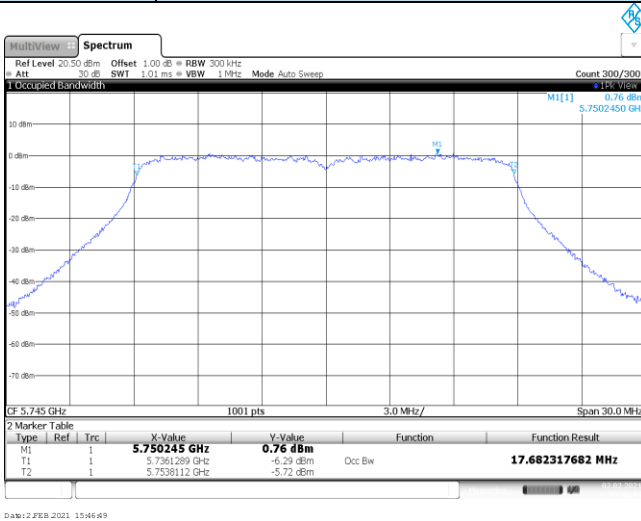
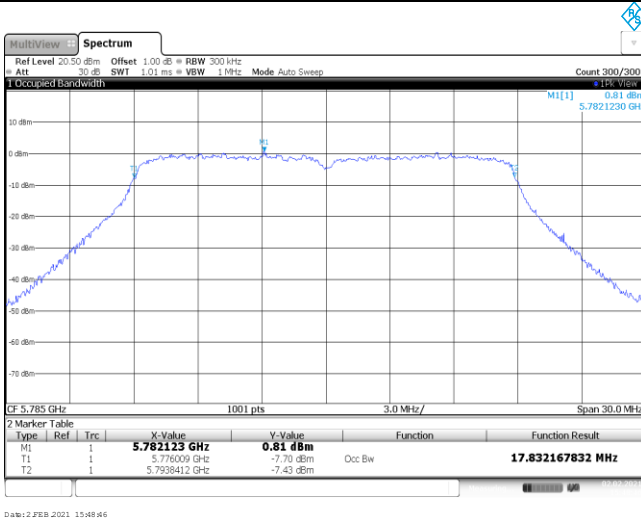
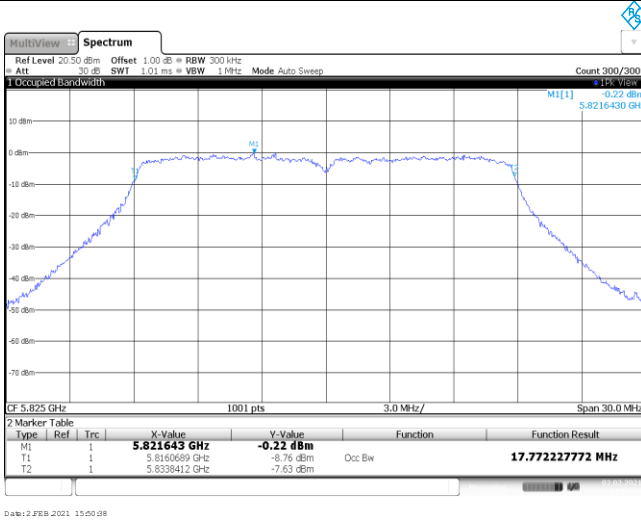
Band I

802.11ac (HT20)

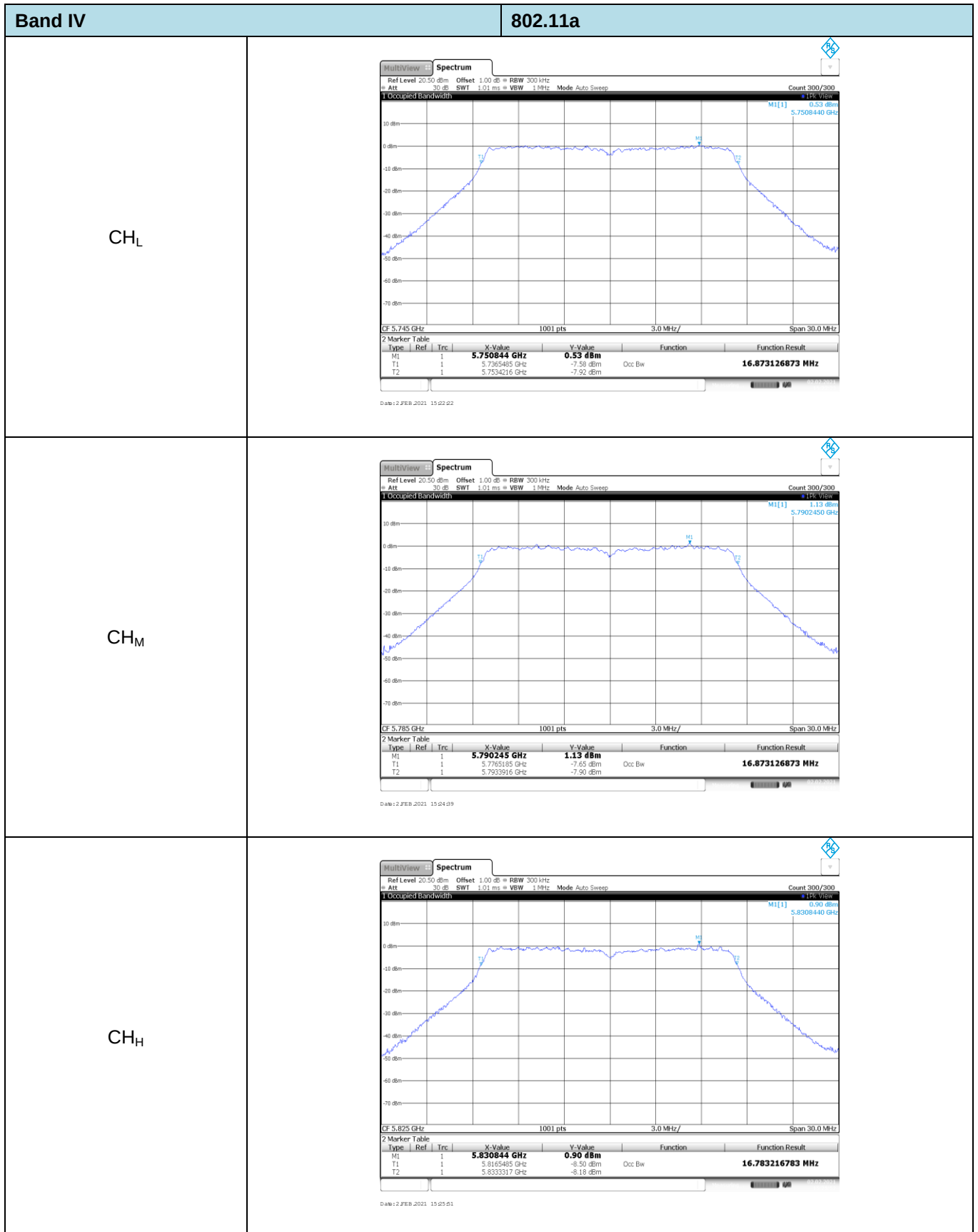
CH_LCH_MCH_H





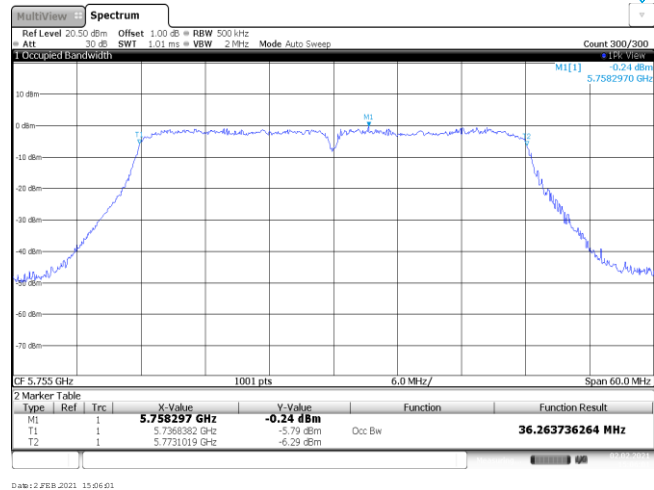
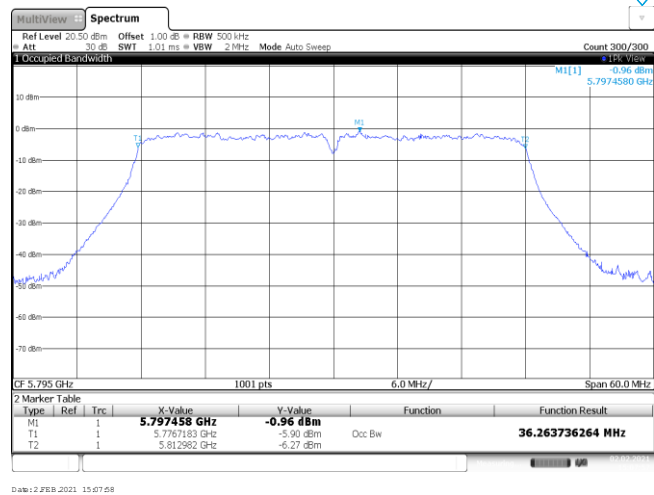
Band	IV	802.11ac (HT20)
CH _L		
CH _M		
CH _H		

Band IV	802.11n (HT20)
CH _L	<



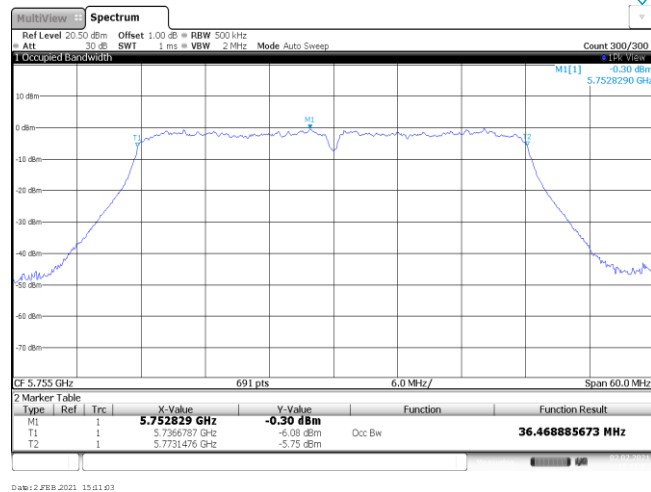
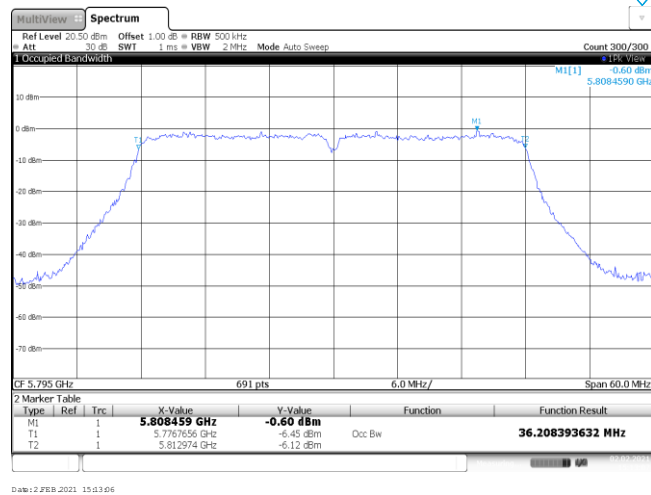
Band IV

802.11ac (HT40)

$$\text{CH}_L$$

$$\text{CH}_H$$


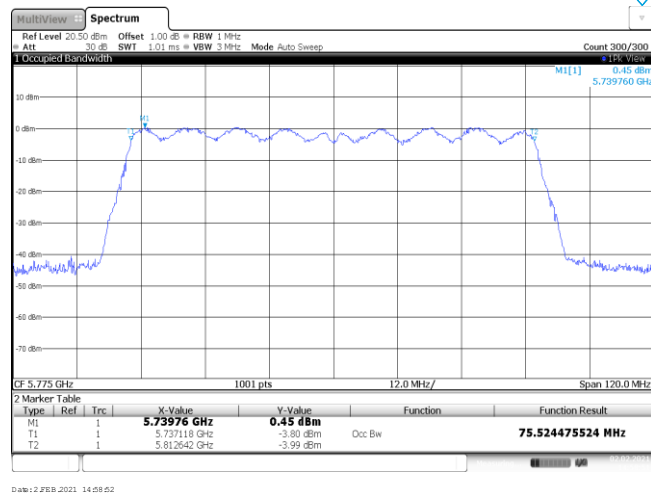
Band IV

802.11n (HT40)

CH_LCH_H

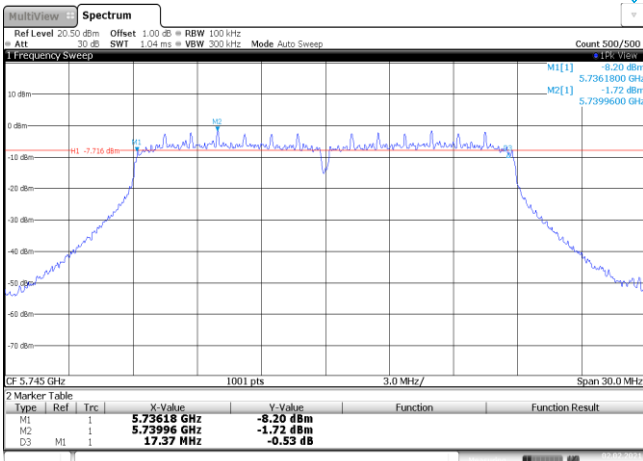
Band IV

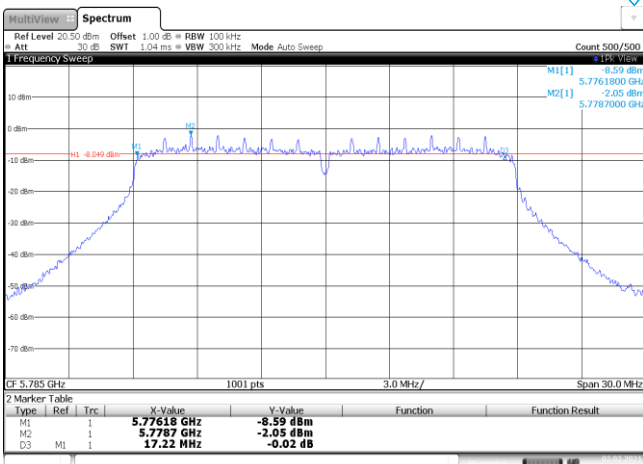
802.11ac (HT80)

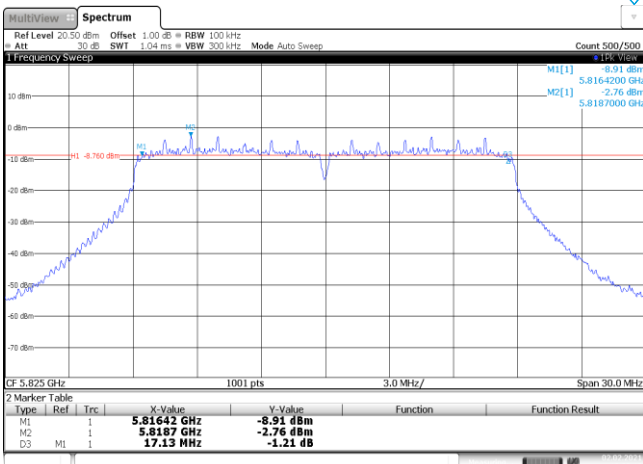
CH_M

Appendix E: 6dB Bandwidth

Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.37	Pass
			CH _M	17.22	
			CH _H	17.13	
		802.11n	CH _L	17.13	Pass
			CH _M	17.10	
			CH _H	17.13	
		802.11a	CH _L	16.38	Pass
			CH _M	16.38	
			CH _H	16.38	
	40	802.11ac	CH _L	35.46	Pass
			CH _H	35.52	
		802.11n	CH _L	35.83	Pass
			CH _H	35.91	
	80	802.11ac	CH _M	75.48	Pass

Test channel	802.11ac (HT20)																												
CH _L	 Spectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table> <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> <tr> <td>M1</td><td>1</td><td></td><td>5.73618 GHz</td><td>-8.20 dBm</td><td></td><td></td></tr> <tr> <td>M2</td><td>1</td><td></td><td>5.73996 GHz</td><td>-1.72 dBm</td><td></td><td></td></tr> <tr> <td>D3</td><td>M1</td><td>1</td><td>17.37 MHz</td><td>-0.53 dB</td><td></td><td></td></tr> </table> Date: 2 FEB 2021 15:46:09	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73618 GHz	-8.20 dBm			M2	1		5.73996 GHz	-1.72 dBm			D3	M1	1	17.37 MHz	-0.53 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73618 GHz	-8.20 dBm																									
M2	1		5.73996 GHz	-1.72 dBm																									
D3	M1	1	17.37 MHz	-0.53 dB																									

CH _M	 Spectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table> <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> <tr> <td>M1</td><td>1</td><td></td><td>5.77618 GHz</td><td>-8.59 dBm</td><td></td><td></td></tr> <tr> <td>M2</td><td>1</td><td></td><td>5.7787 GHz</td><td>-2.05 dBm</td><td></td><td></td></tr> <tr> <td>D3</td><td>M1</td><td>1</td><td>17.22 MHz</td><td>-0.02 dB</td><td></td><td></td></tr> </table> Date: 2 FEB 2021 15:48:05	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.77618 GHz	-8.59 dBm			M2	1		5.7787 GHz	-2.05 dBm			D3	M1	1	17.22 MHz	-0.02 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.77618 GHz	-8.59 dBm																									
M2	1		5.7787 GHz	-2.05 dBm																									
D3	M1	1	17.22 MHz	-0.02 dB																									

CH _H	 Spectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table> <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> <tr> <td>M1</td><td>1</td><td></td><td>5.81642 GHz</td><td>-8.91 dBm</td><td></td><td></td></tr> <tr> <td>M2</td><td>1</td><td></td><td>5.8187 GHz</td><td>-2.76 dBm</td><td></td><td></td></tr> <tr> <td>D3</td><td>M1</td><td>1</td><td>17.13 MHz</td><td>-1.24 dB</td><td></td><td></td></tr> </table> Date: 2 FEB 2021 15:50:48	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.81642 GHz	-8.91 dBm			M2	1		5.8187 GHz	-2.76 dBm			D3	M1	1	17.13 MHz	-1.24 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.81642 GHz	-8.91 dBm																									
M2	1		5.8187 GHz	-2.76 dBm																									
D3	M1	1	17.13 MHz	-1.24 dB																									

Test channel	802.11n (HT20)
CH _L	

Test channel	802.11a
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep </

Test channel

802.11ac (HT40)

CH_L

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
Att 30 dB SWT 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

Y-axis: 10 dBm, 0 dBm, -10 dBm, -20 dBm, -30 dBm, -40 dBm, -50 dBm, -60 dBm, -70 dBm

X-axis: CF 5.755 GHz, 1001 pts, 6.0 MHz/, Span 60.0 MHz

Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.7373 GHz	-11.84 dBm		
M2	1		5.73994 GHz	-4.93 dBm		
D3	M1	1	35.46 MHz	0.74 dB		

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CH_H

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
Att 30 dB SWT 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

Y-axis: 10 dBm, 0 dBm, -10 dBm, -20 dBm, -30 dBm, -40 dBm, -50 dBm, -60 dBm, -70 dBm

X-axis: CF 5.759 GHz, 1001 pts, 6.0 MHz/, Span 60.0 MHz

Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.7773 GHz	-12.54 dBm		
M2	1		5.77994 GHz	-5.78 dBm		
D3	M1	1	35.52 MHz	-0.13 dB		

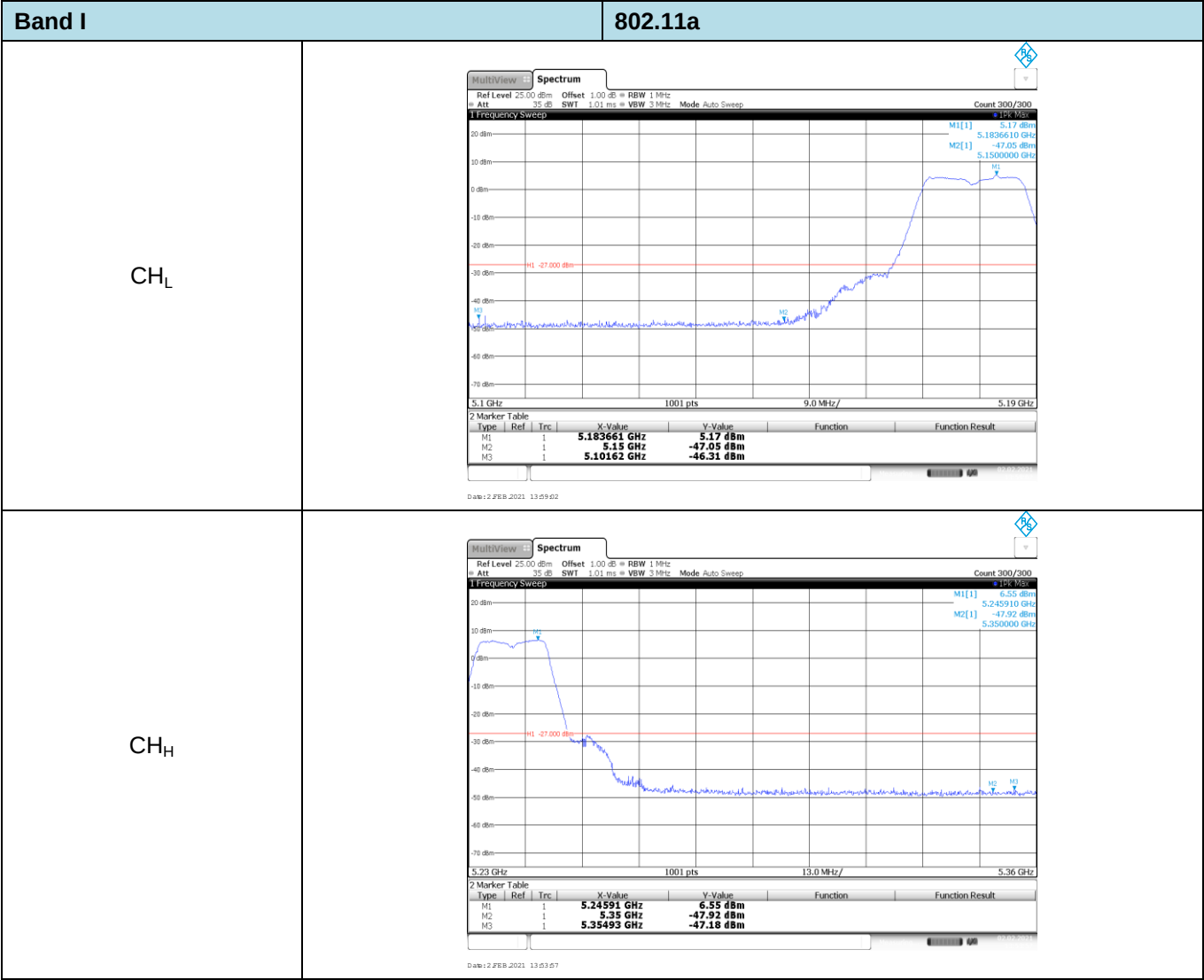
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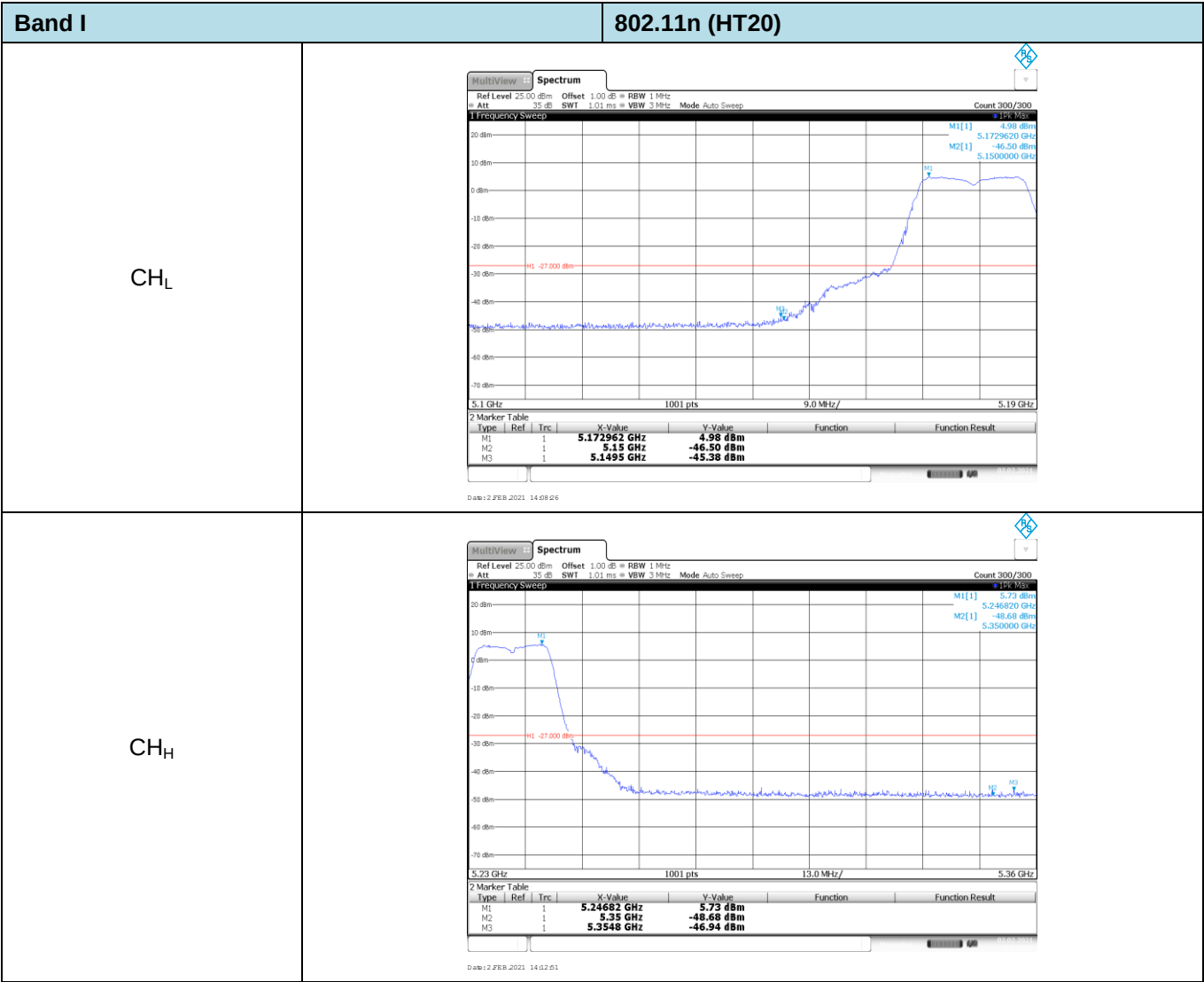
Test channel	802.11n (HT40)																												
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep CF 5.725 GHz 691 pts 6.0 MHz/ Span 60.0 MHz 2 Marker Table <table> <tr> <th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr> <tr> <td>M1</td><td>1</td><td></td><td>5.737 GHz</td><td>-11.17 dBm</td><td></td><td></td></tr> <tr> <td>M2</td><td>1</td><td></td><td>5.7524783 GHz</td><td>-5.03 dBm</td><td></td><td></td></tr> <tr> <td>D3</td><td>M1</td><td>1</td><td>35.8261 MHz</td><td>-0.02 dB</td><td></td><td></td></tr> </table> Date: 12 FEB 2021 15:01:22	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.737 GHz	-11.17 dBm			M2	1		5.7524783 GHz	-5.03 dBm			D3	M1	1	35.8261 MHz	-0.02 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.737 GHz	-11.17 dBm																									
M2	1		5.7524783 GHz	-5.03 dBm																									
D3	M1	1	35.8261 MHz	-0.02 dB																									

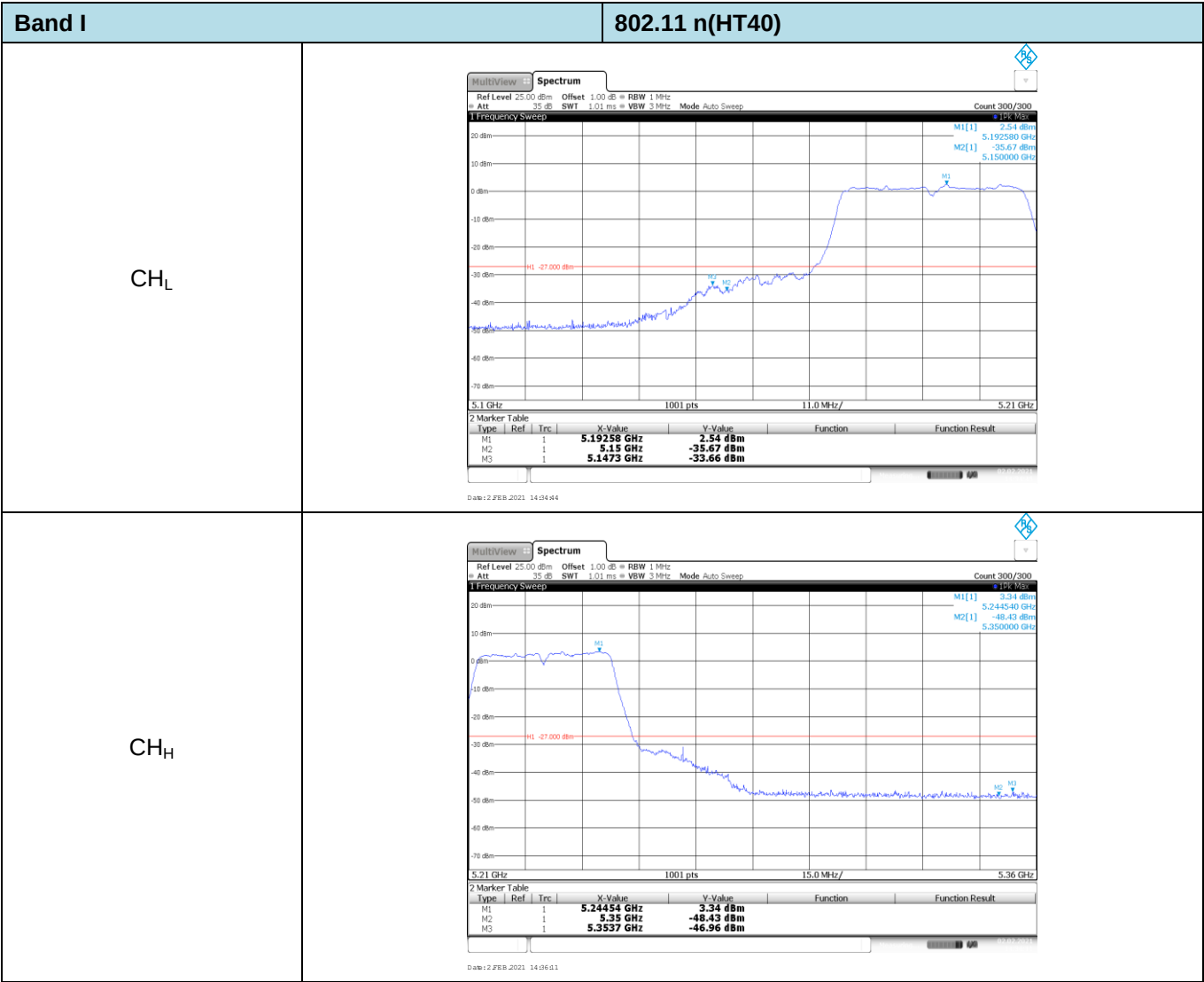
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep CF 5.795 GHz 691 pts 6.0 MHz/ Span 60.0 MHz 2 Marker Table <table> <tr> <th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr> <tr> <td>M1</td><td>1</td><td></td><td>5.777087 GHz</td><td>-11.50 dBm</td><td></td><td></td></tr> <tr> <td>M2</td><td>1</td><td></td><td>5.7799565 GHz</td><td>-5.39 dBm</td><td></td><td></td></tr> <tr> <td>D3</td><td>M1</td><td>1</td><td>35.913 MHz</td><td>-2.16 dB</td><td></td><td></td></tr> </table> Date: 12 FEB 2021 15:03:19	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.777087 GHz	-11.50 dBm			M2	1		5.7799565 GHz	-5.39 dBm			D3	M1	1	35.913 MHz	-2.16 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.777087 GHz	-11.50 dBm																									
M2	1		5.7799565 GHz	-5.39 dBm																									
D3	M1	1	35.913 MHz	-2.16 dB																									

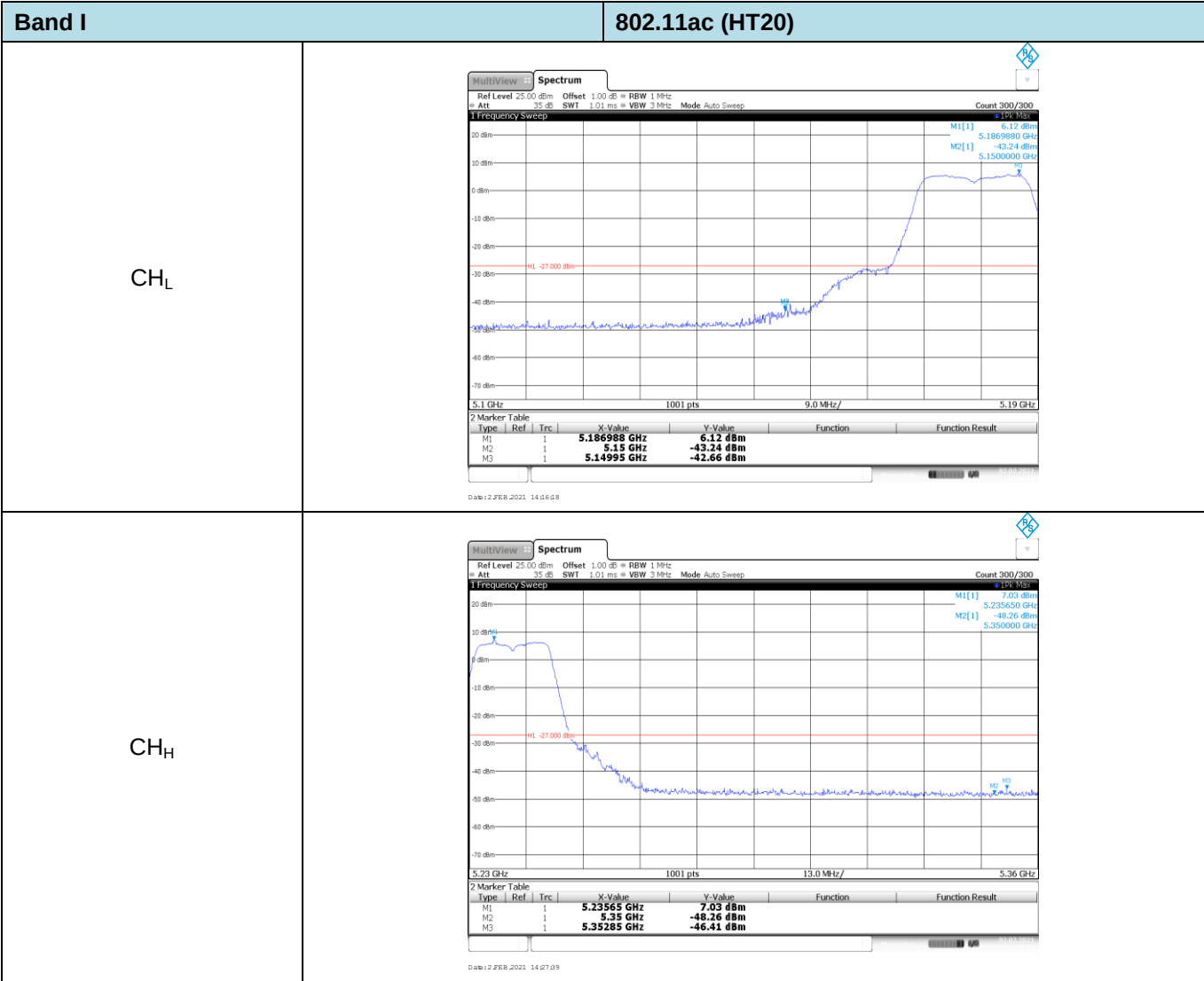
Test channel	802.11ac (HT80)																												
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.2 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep CF 5.775 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz 2 Marker Table <table> <tr> <th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr> <tr> <td>M1</td><td>1</td><td></td><td>5.7372 GHz</td><td>-14.40 dBm</td><td></td><td></td></tr> <tr> <td>M2</td><td>1</td><td></td><td>5.7474 GHz</td><td>-6.79 dBm</td><td></td><td></td></tr> <tr> <td>D3</td><td>M1</td><td>1</td><td>75.48 MHz</td><td>-0.80 dB</td><td></td><td></td></tr> </table> Date: 12 FEB 2021 14:09:01	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.7372 GHz	-14.40 dBm			M2	1		5.7474 GHz	-6.79 dBm			D3	M1	1	75.48 MHz	-0.80 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.7372 GHz	-14.40 dBm																									
M2	1		5.7474 GHz	-6.79 dBm																									
D3	M1	1	75.48 MHz	-0.80 dB																									

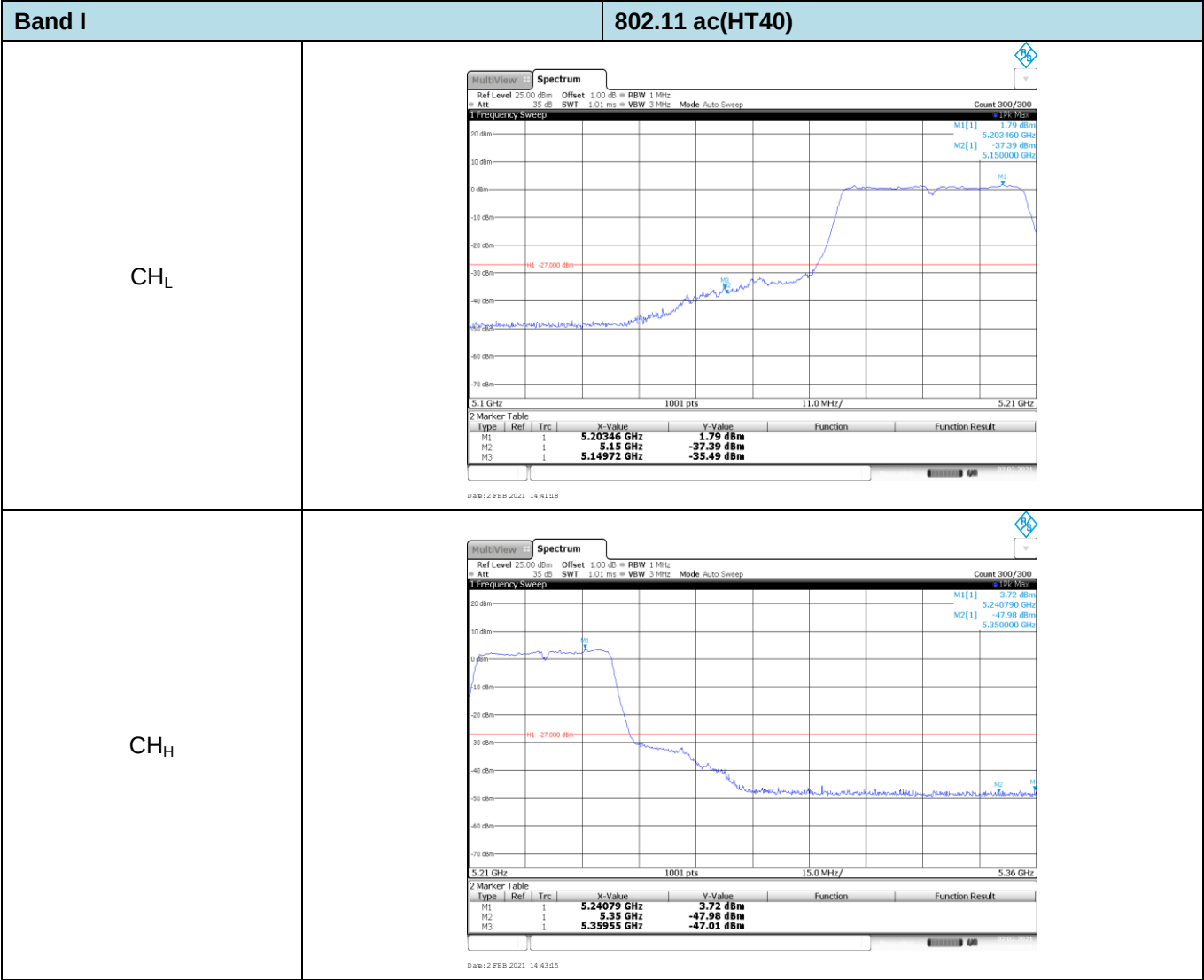
Appendix F: Band edge

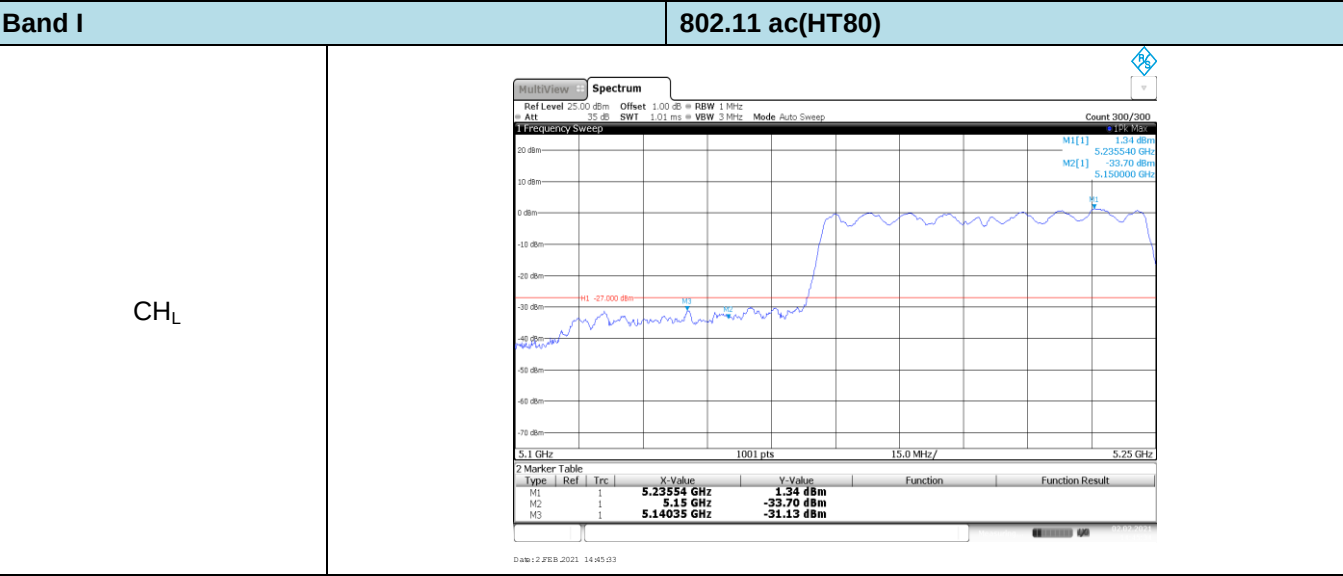


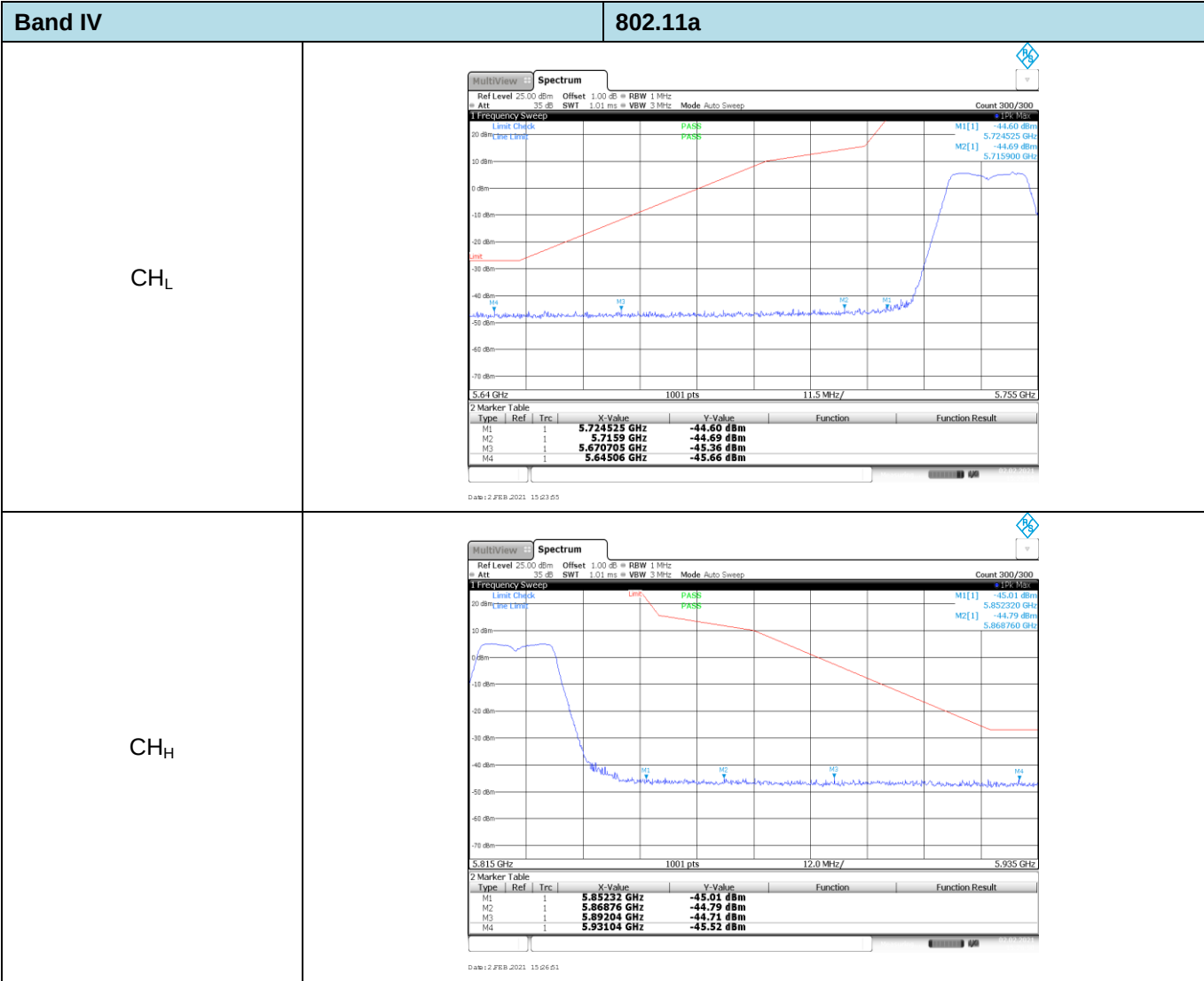


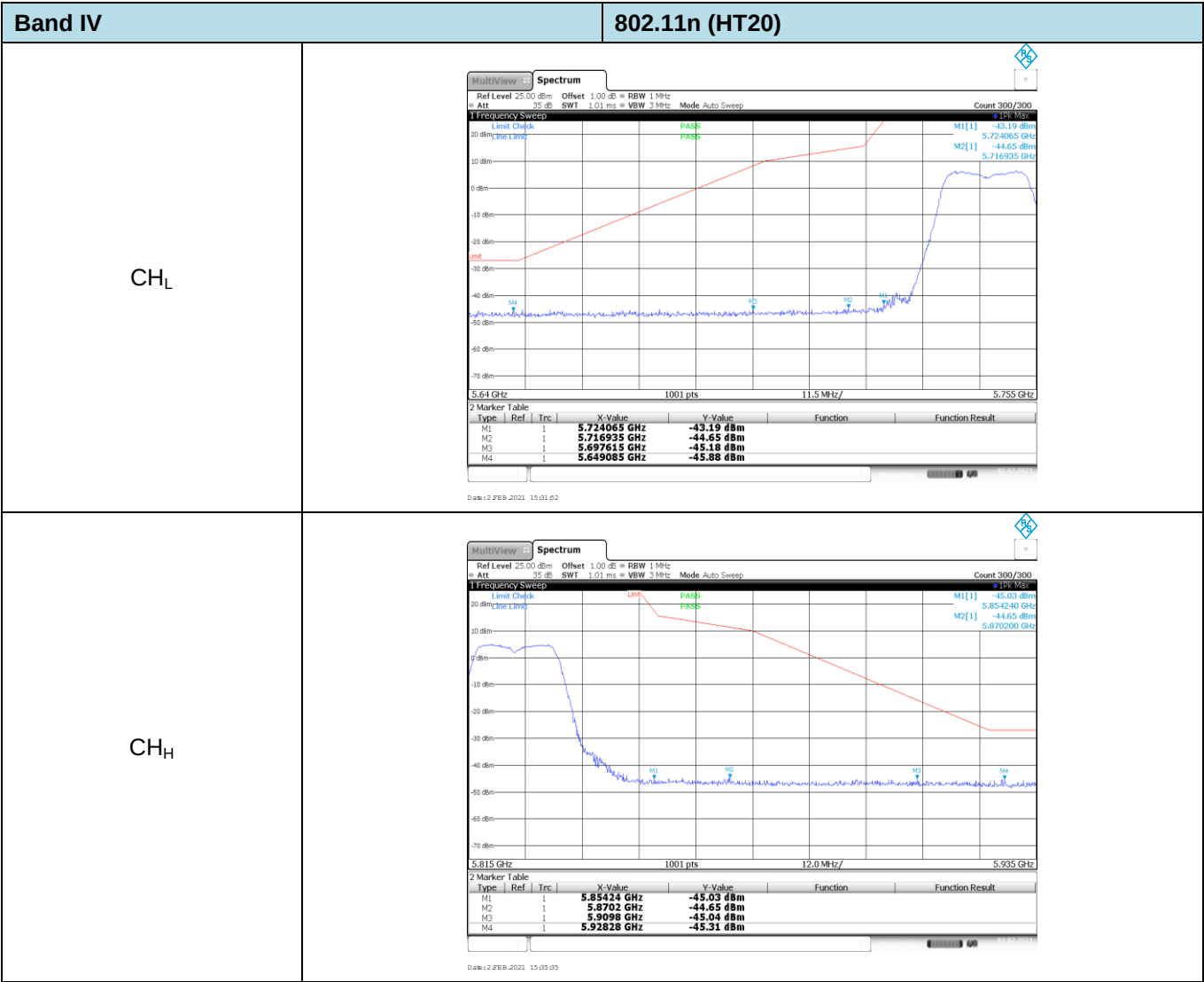


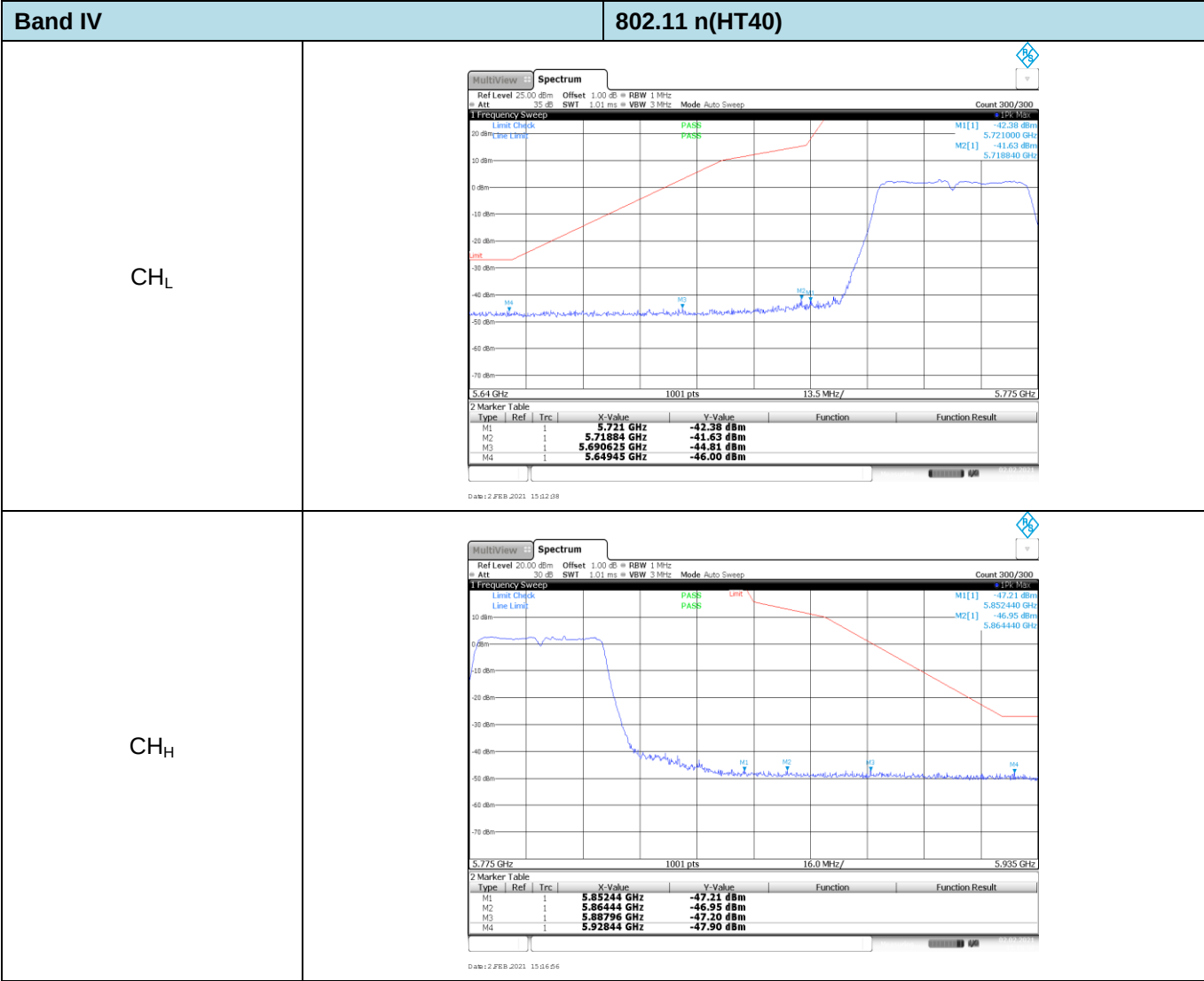


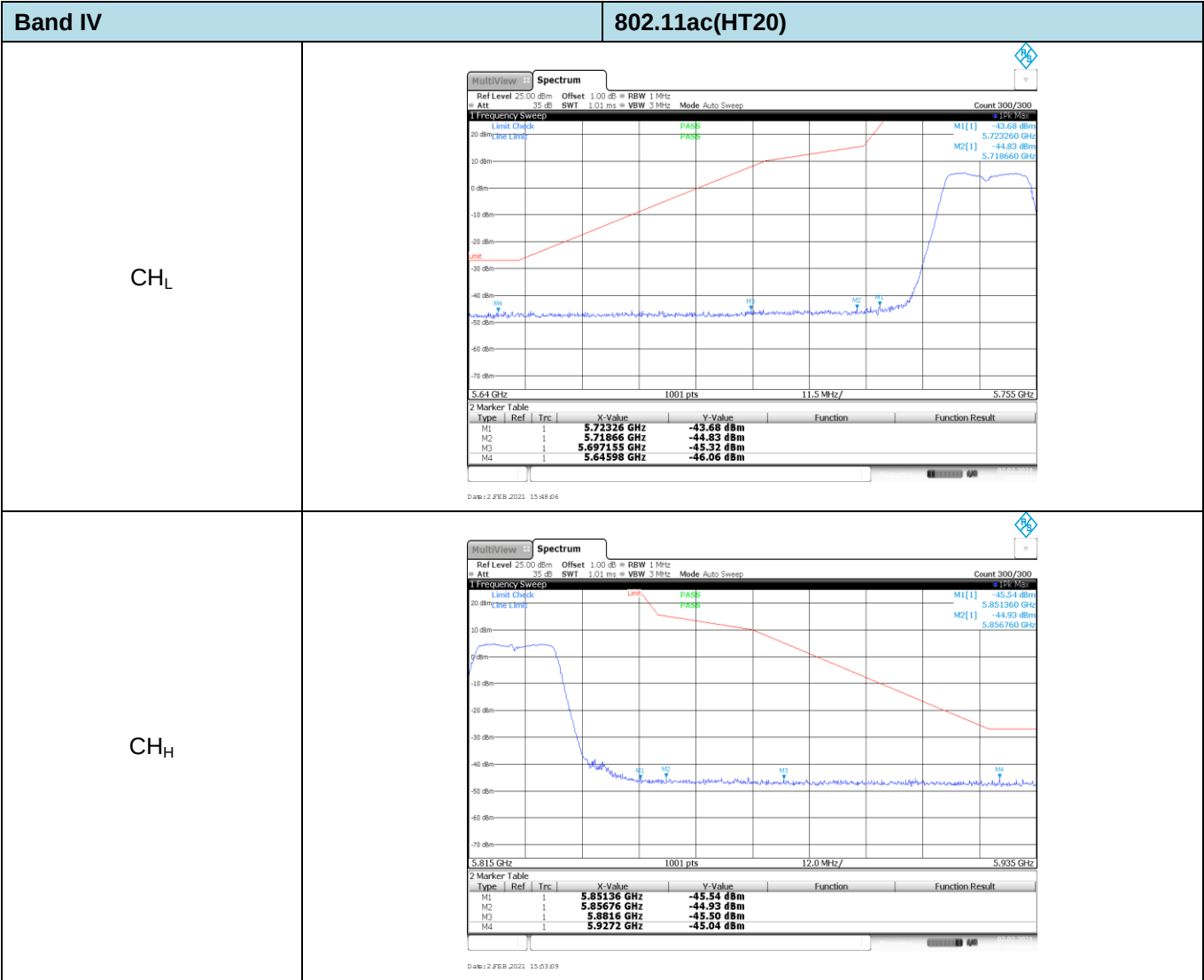


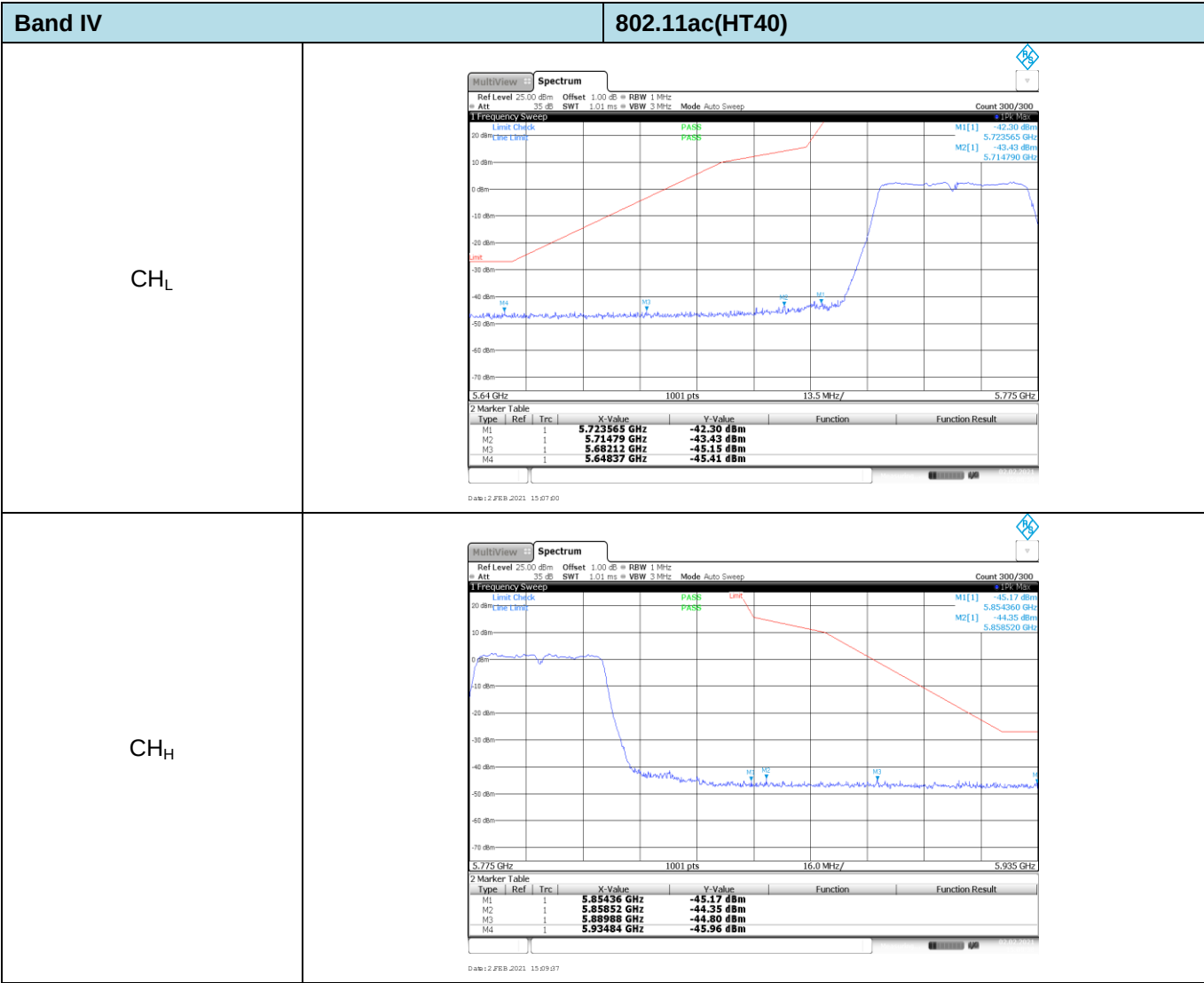


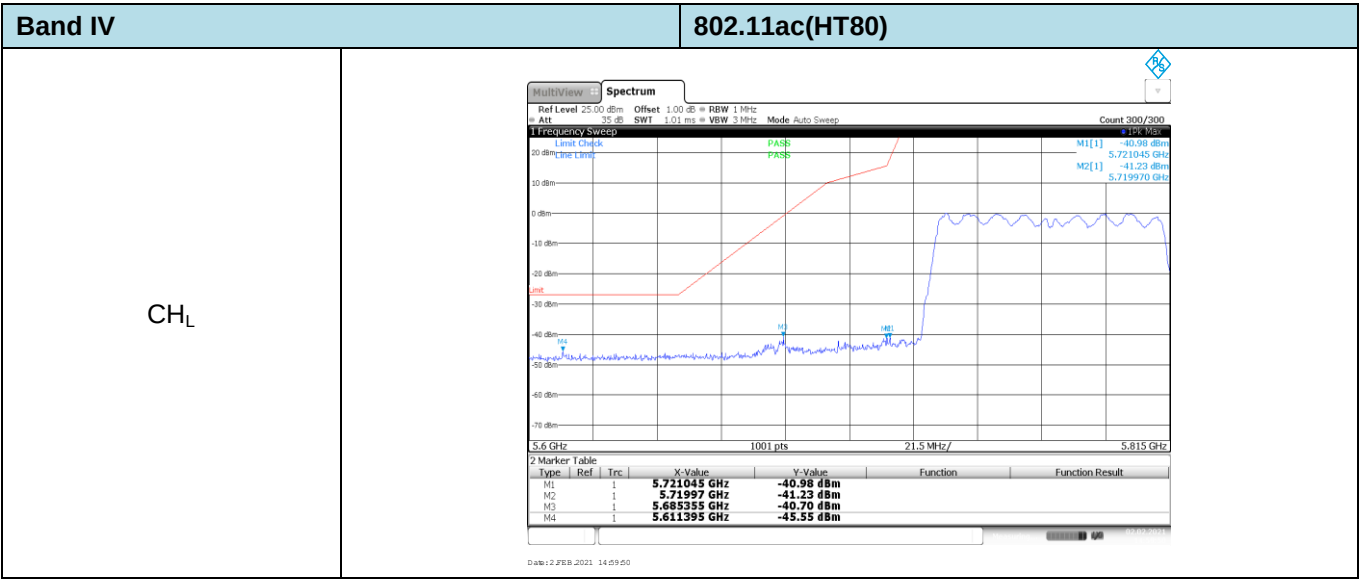












Appendix G: Frequency stability**Voltage VS Frequency stability**

Band: I			Test Frequency: 5180.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	-3000.00	-0.57915	PASS
T _N	V _N	-28000.00	-5.40541	PASS
T _N	V _H	17000.00	3.28185	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	55900.00	9.73020	PASS
T _N	V _N	36000.00	6.26632	PASS
T _N	V _H	57900.00	10.07833	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	41000.00	7.91506	PASS
V _N	-10	50000.00	9.65251	PASS
V _N	0	58900.00	11.37066	PASS
V _N	10	64900.00	12.52896	PASS
V _N	20	72900.00	14.07336	PASS
V _N	30	77900.00	15.03861	PASS
V _N	40	83900.00	16.19691	PASS
V _N	50	85900.00	16.58301	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	62900.00	10.94865	PASS
V _N	-10	61900.00	10.77459	PASS
V _N	0	64900.00	11.29678	PASS
V _N	10	63900.00	11.12272	PASS
V _N	20	62900.00	10.94865	PASS
V _N	30	63900.00	11.12272	PASS
V _N	40	61900.00	10.77459	PASS
V _N	50	62900.00	10.94865	PASS

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