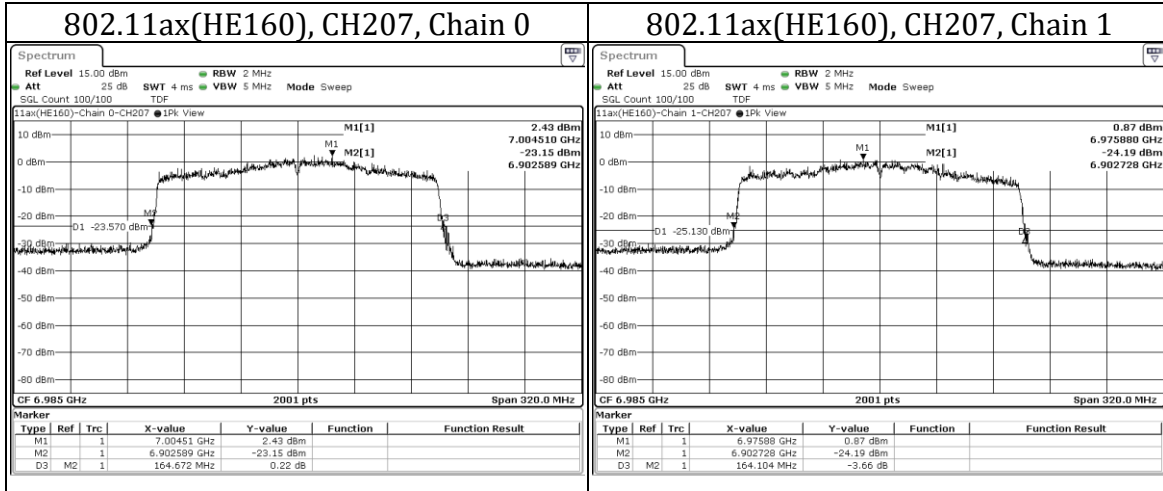


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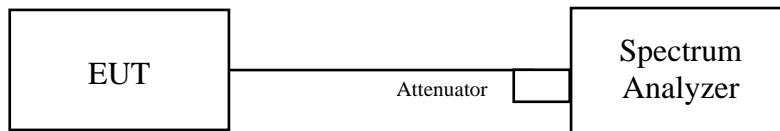


## 9.2. Occupied Bandwidth

### Test procedure

- a. Set center frequency to the nominal EUT channel center frequency.
- b. Set span = 1.5 times to 5.0 times the OBW.
- c. Set RBW = 1% to 5% of the OBW
- d. Set VBW  $\geq 3 \times$  RBW
- e. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f. Use the 99% power bandwidth function of the instrument (if available).
- g. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

### Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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### Test Data

Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11a	2	5935	16.371	16.357	320	Pass
	1	5955	16.337	16.34	320	Pass
	45	6175	16.371	16.358	320	Pass
	93	6415	16.368	16.346	320	Pass
	97	6435	16.387	16.344	320	Pass
	105	6475	16.373	16.33	320	Pass
	113	6515	16.384	16.358	320	Pass
	117	6535	16.348	16.344	320	Pass
	149	6695	16.389	16.36	320	Pass
	181	6855	16.406	16.312	320	Pass
	185	6875	16.403	16.358	320	Pass
	209	6995	16.4	16.358	320	Pass
	229	7095	16.42	16.345	320	Pass
	233	7115	16.387	16.34	320	Pass

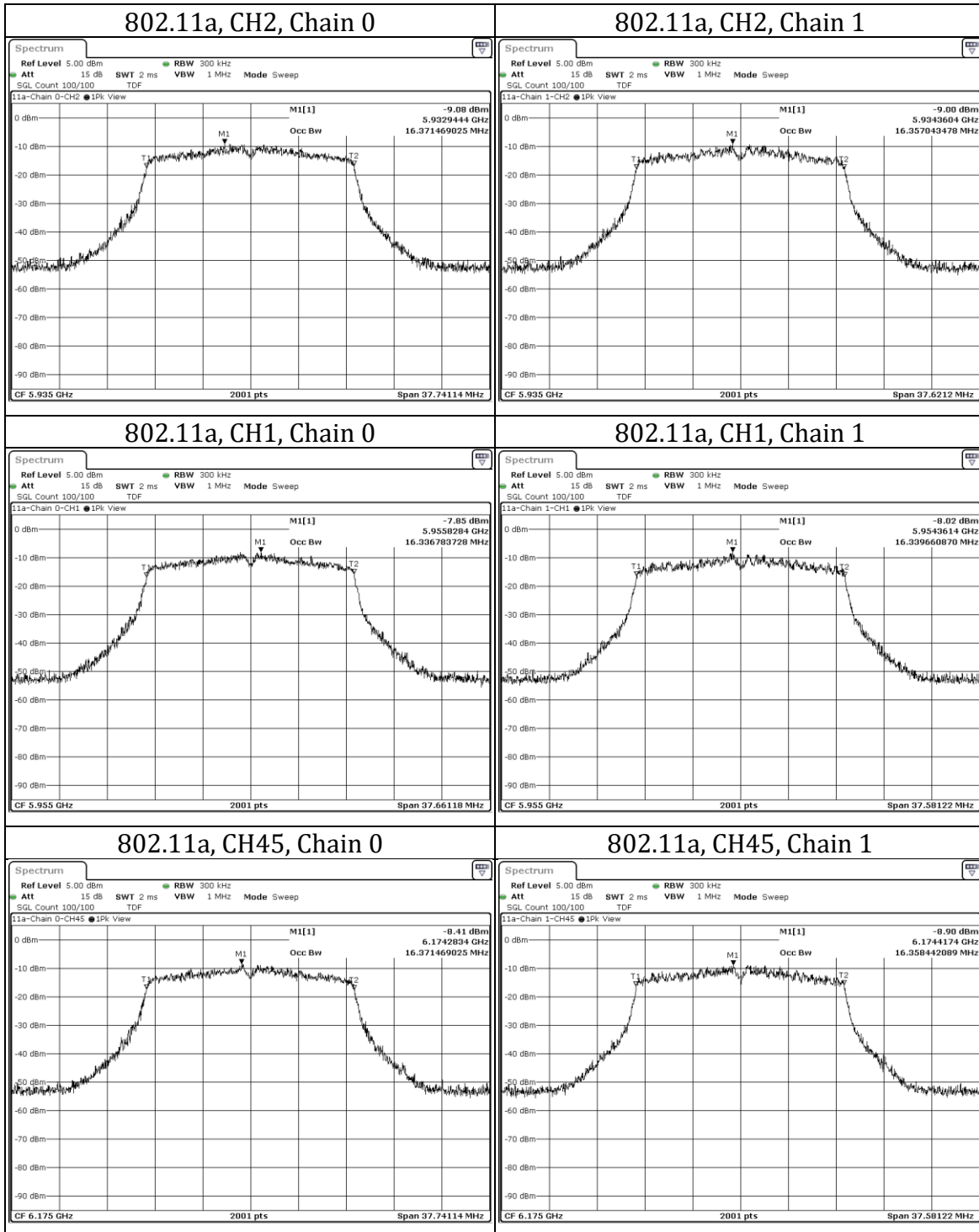
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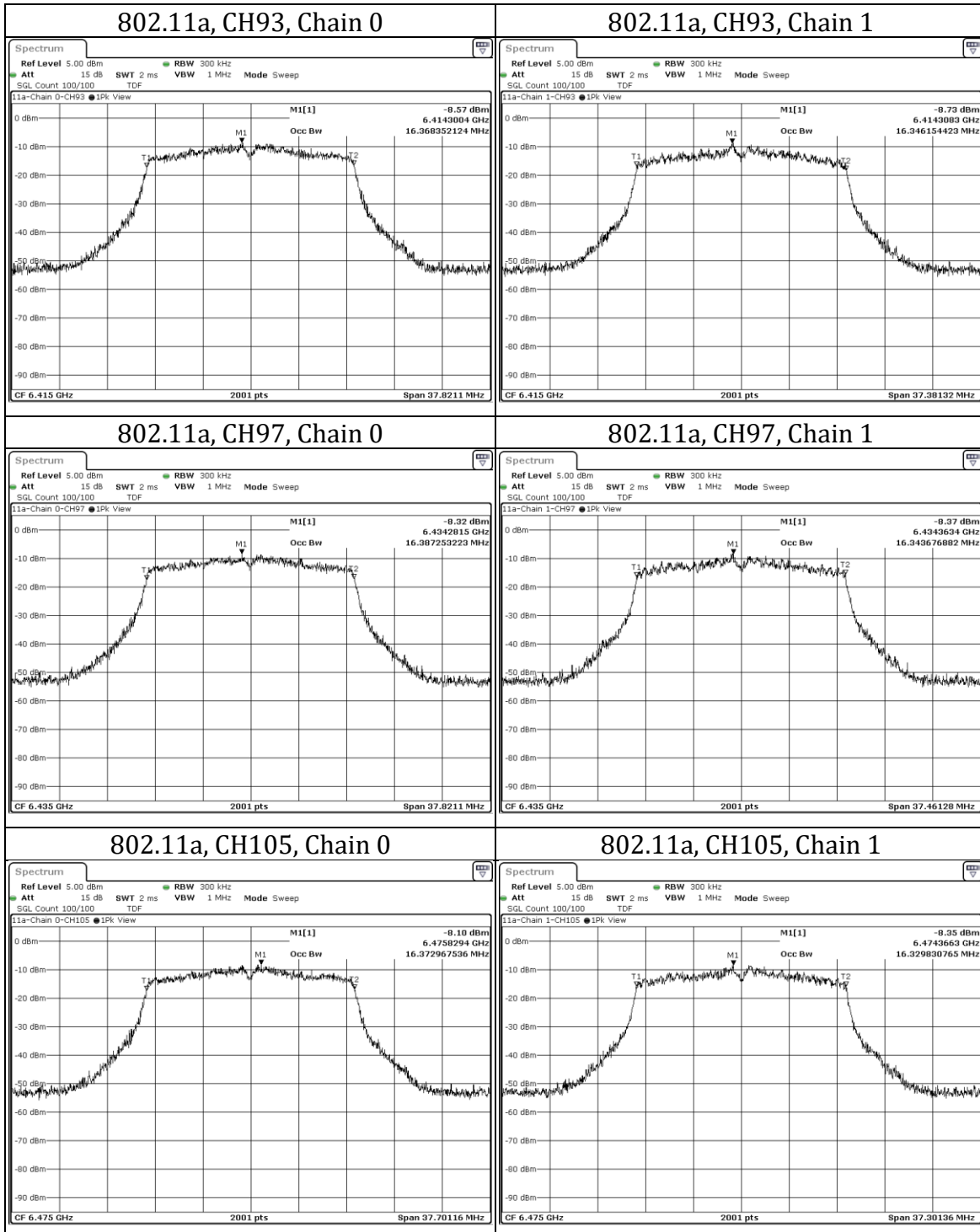
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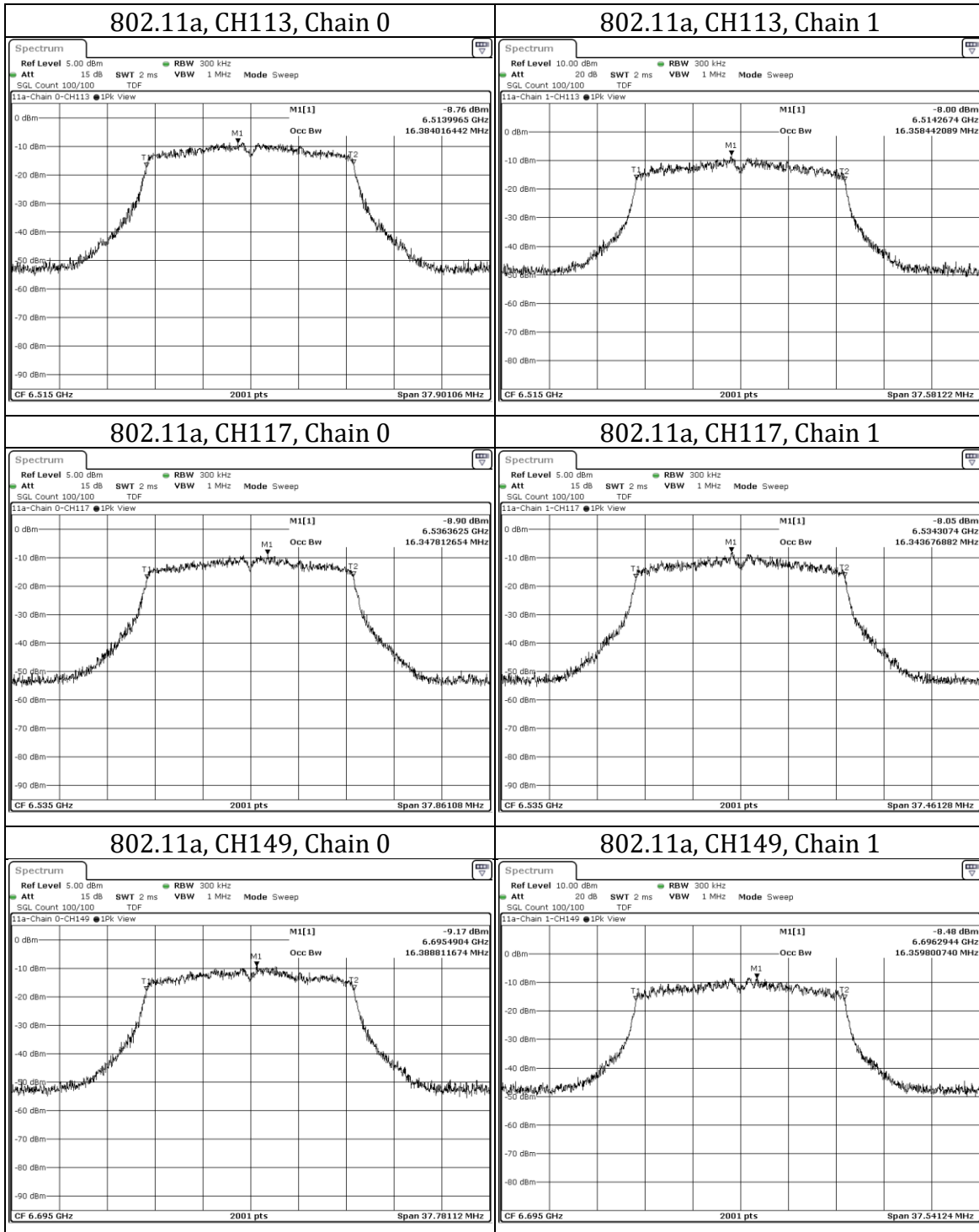
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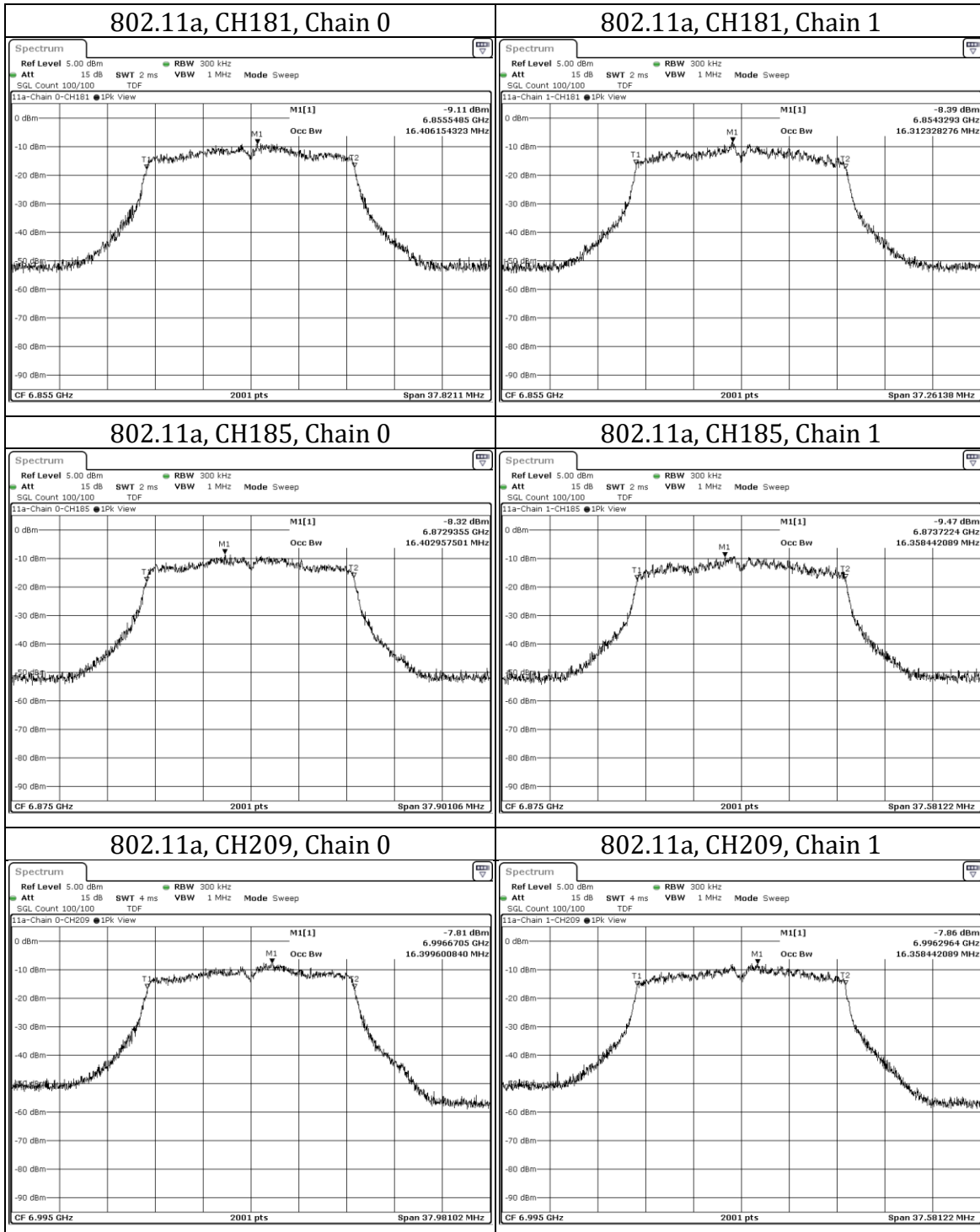
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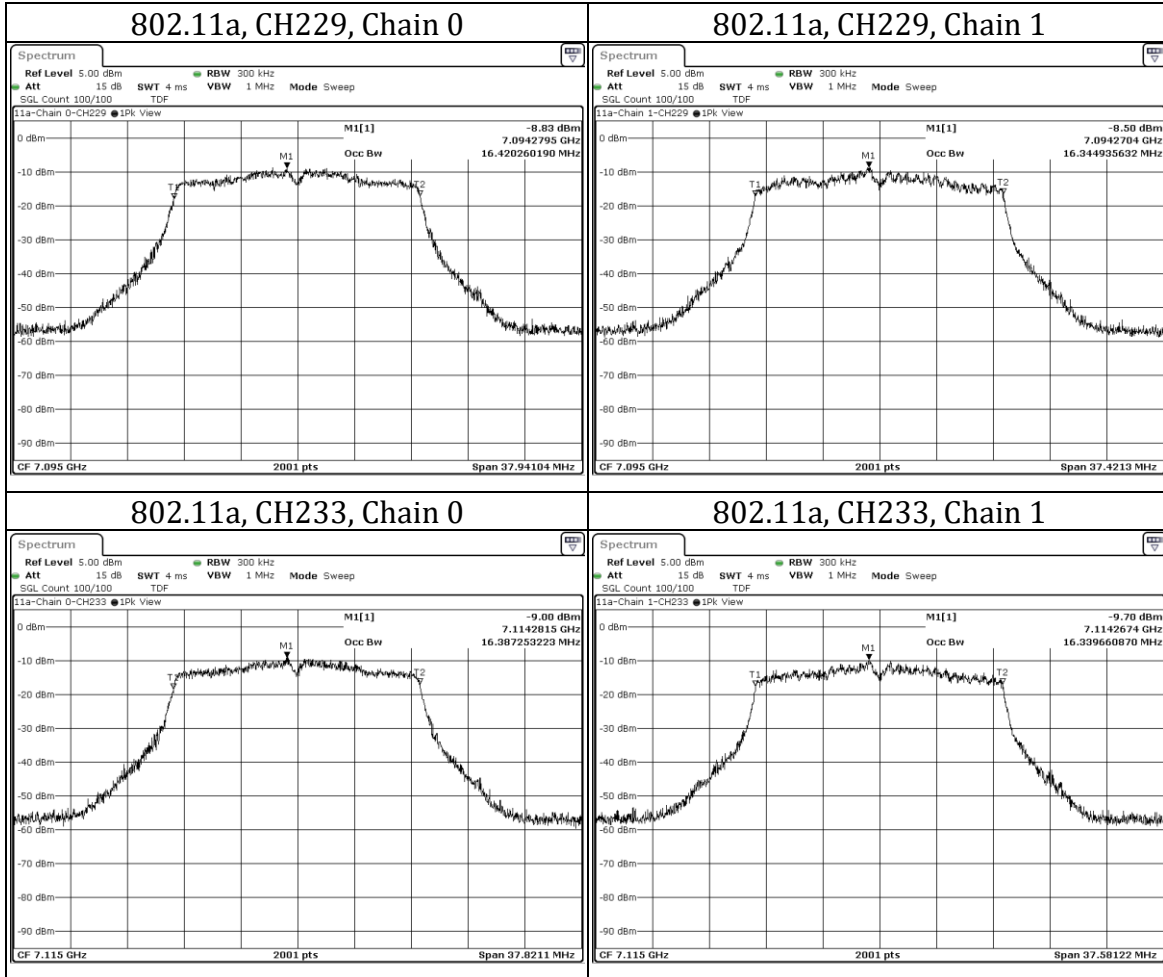


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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE20)	2	5935	18.929	18.911	320	Pass
	1	5955	18.95	18.947	320	Pass
	45	6175	18.923	19.025	320	Pass
	93	6415	18.941	19.001	320	Pass
	97	6435	18.929	18.95	320	Pass
	105	6475	18.935	18.958	320	Pass
	113	6515	18.914	18.859	320	Pass
	117	6535	18.932	18.992	320	Pass
	149	6695	18.92	18.962	320	Pass
	181	6855	18.947	18.997	320	Pass
	185	6875	18.923	19.007	320	Pass
	209	6995	18.923	18.987	320	Pass
	229	7095	18.932	18.95	320	Pass
	233	7115	18.896	18.905	320	Pass

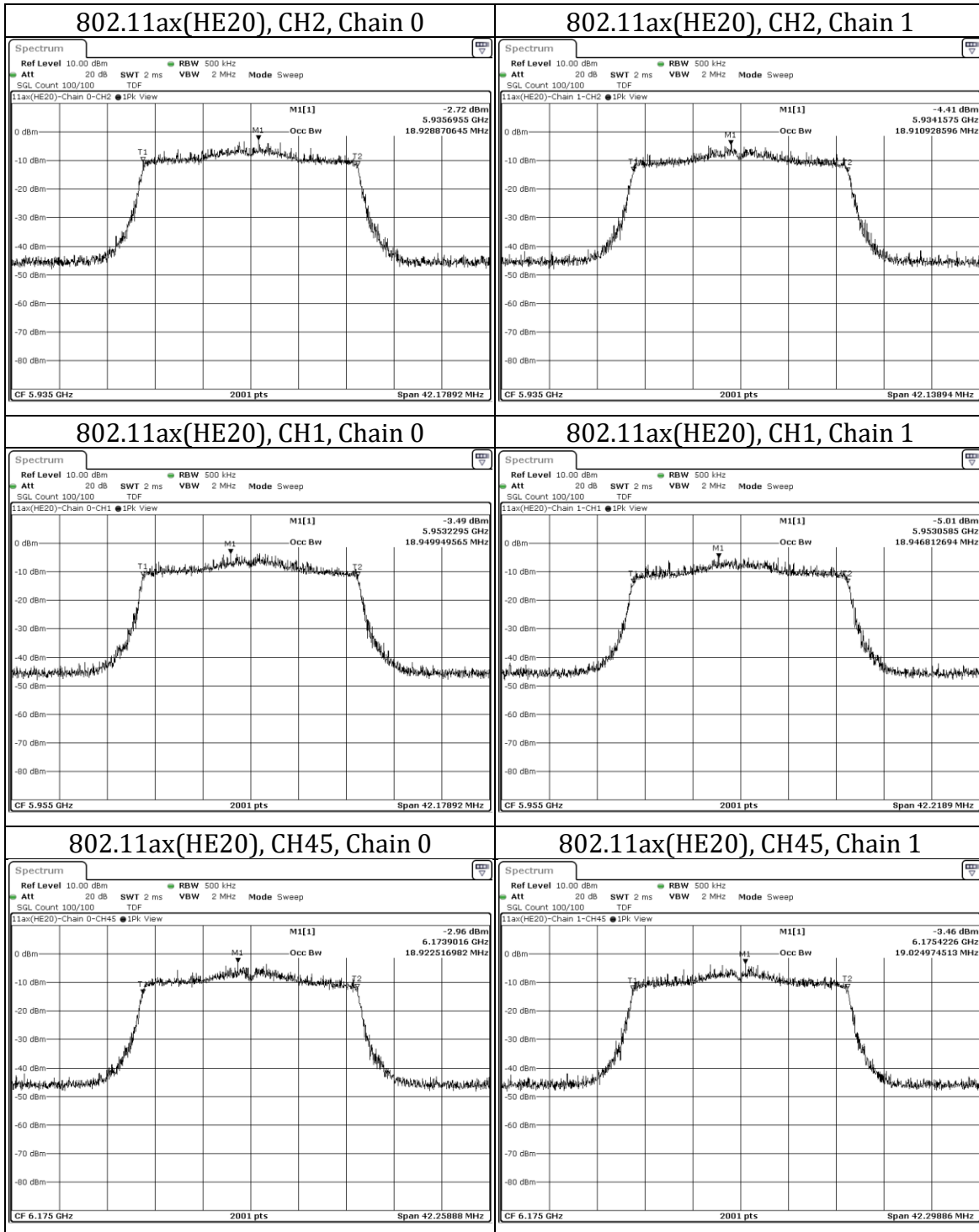
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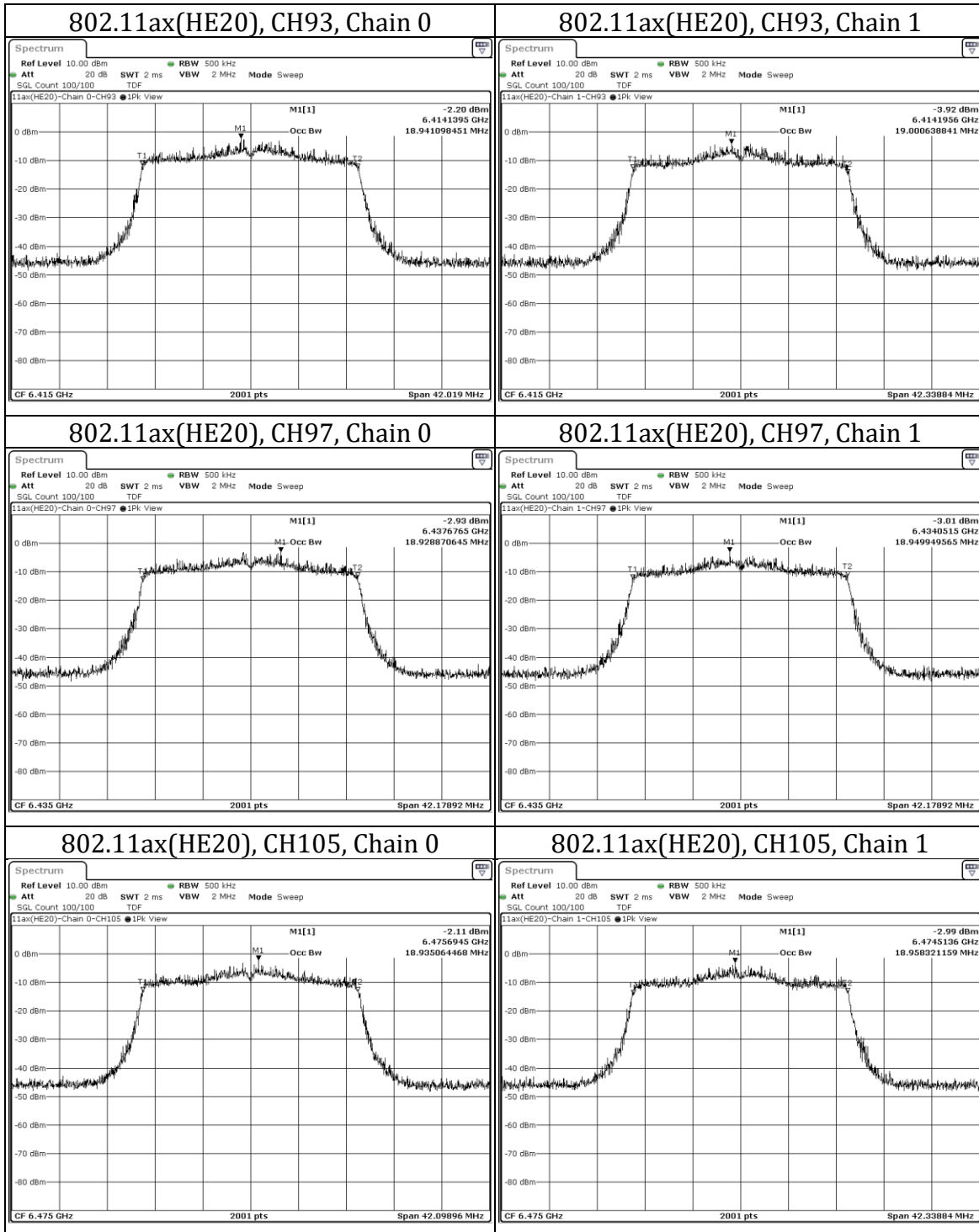


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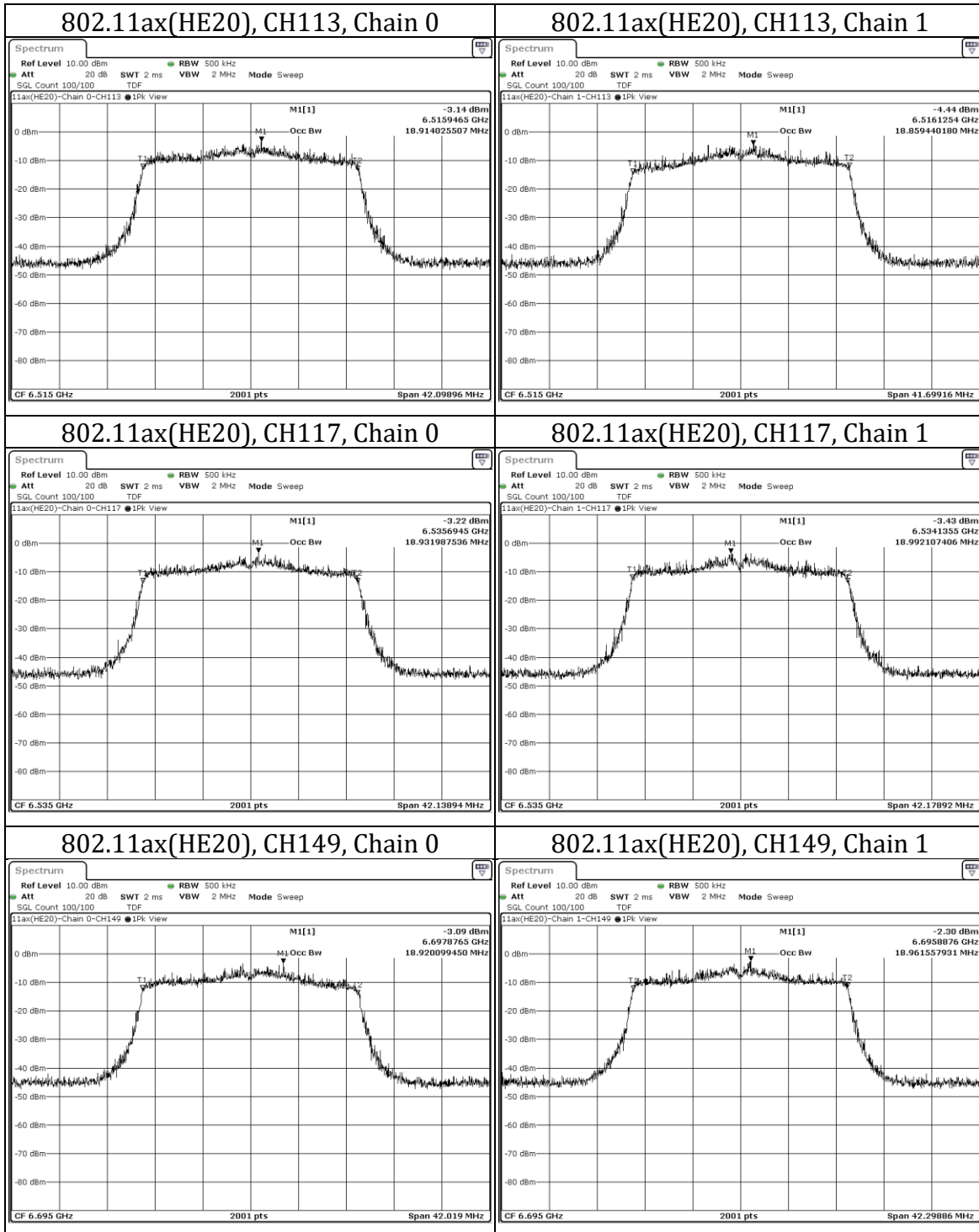


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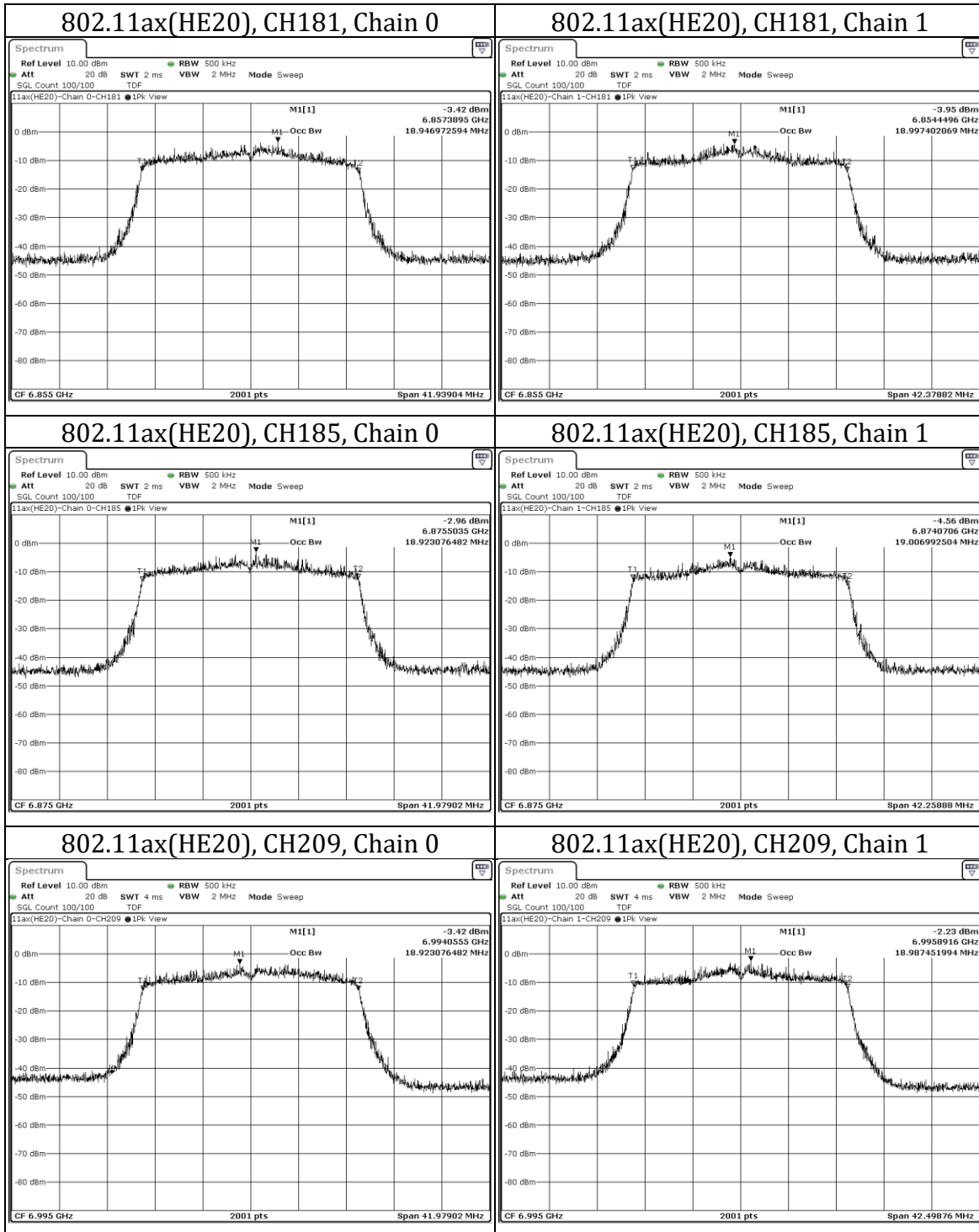


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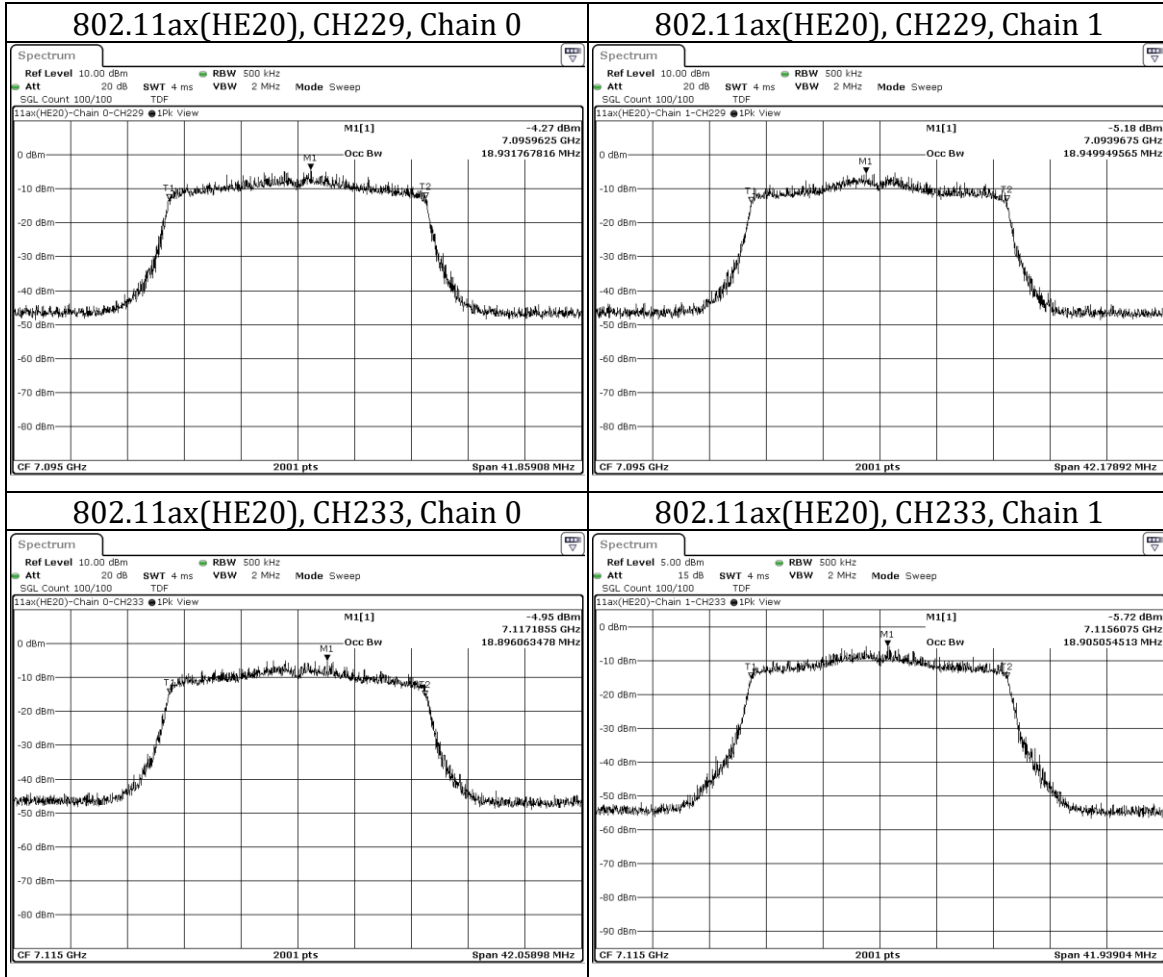


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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE40)	3	5965	37.792	38.092	320	Pass
	43	6165	37.792	37.405	320	Pass
	91	6405	37.714	37.982	320	Pass
	99	6445	37.714	37.129	320	Pass
	107	6485	37.675	37.751	320	Pass
	115	6525	37.715	37.281	320	Pass
	123	6565	37.753	38.134	320	Pass
	155	6725	37.675	37.56	320	Pass
	179	6845	37.714	38.022	320	Pass
	187	6885	37.636	37.56	320	Pass
	211	7005	37.637	38.016	320	Pass
	227	7085	37.675	37.829	320	Pass

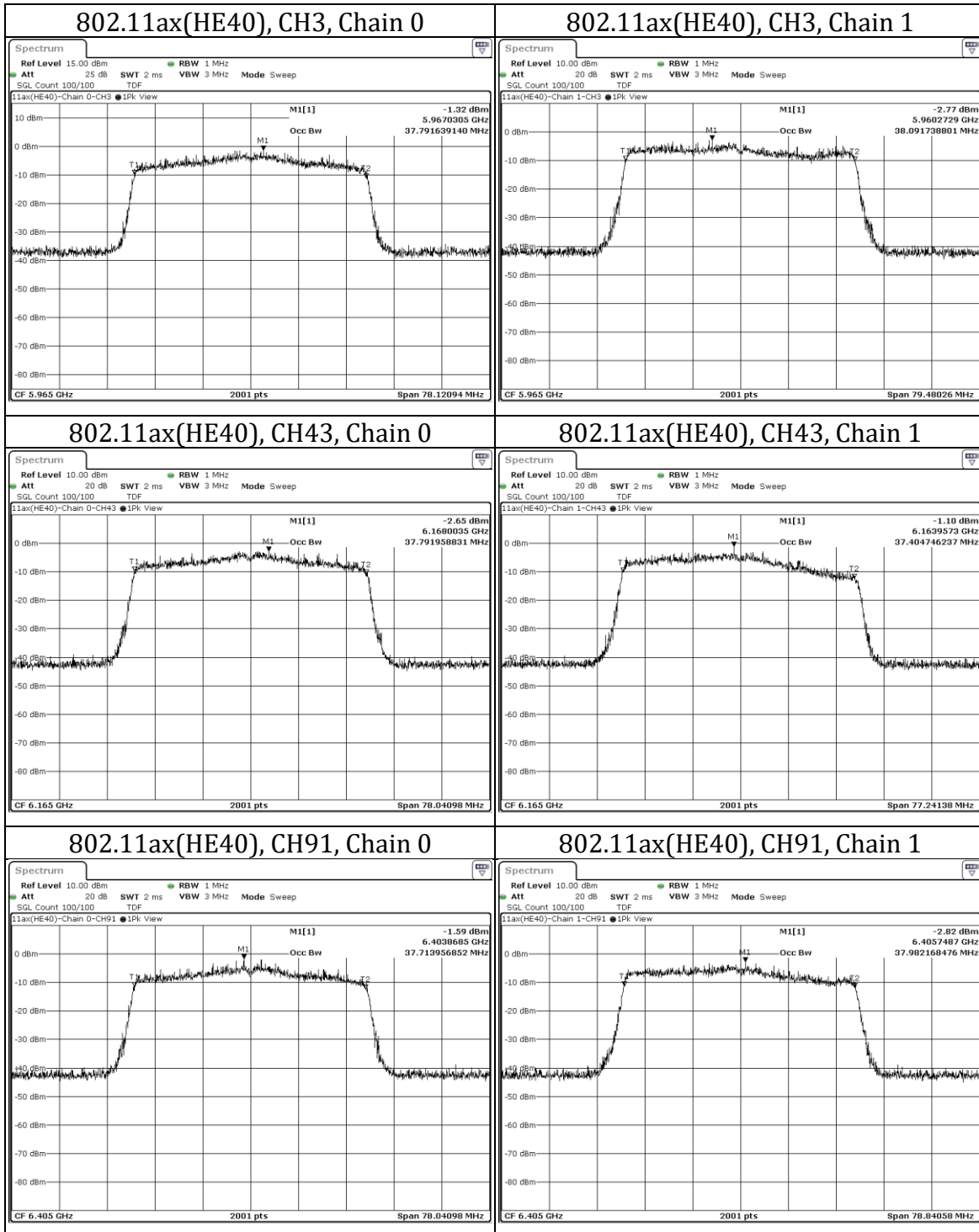
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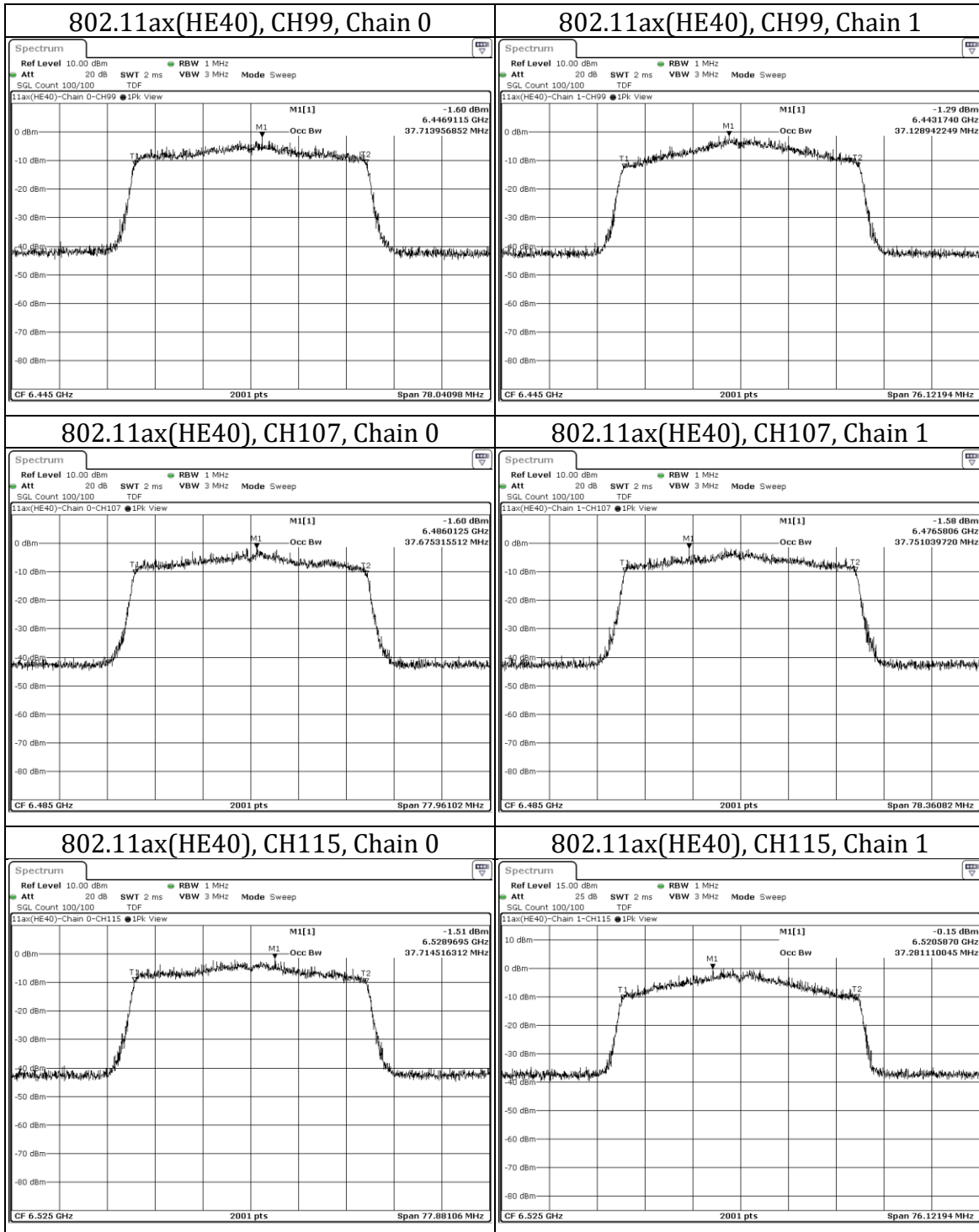


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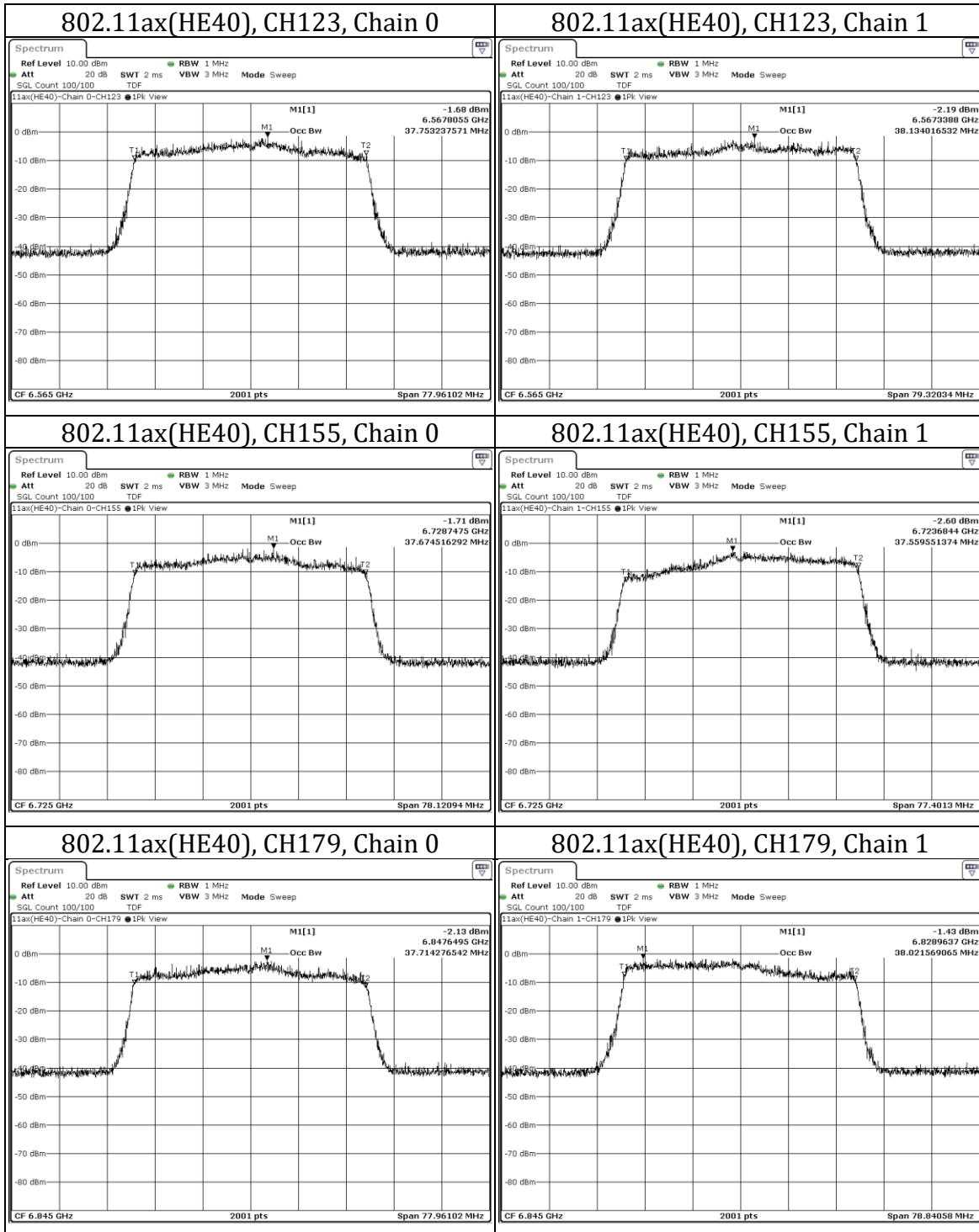
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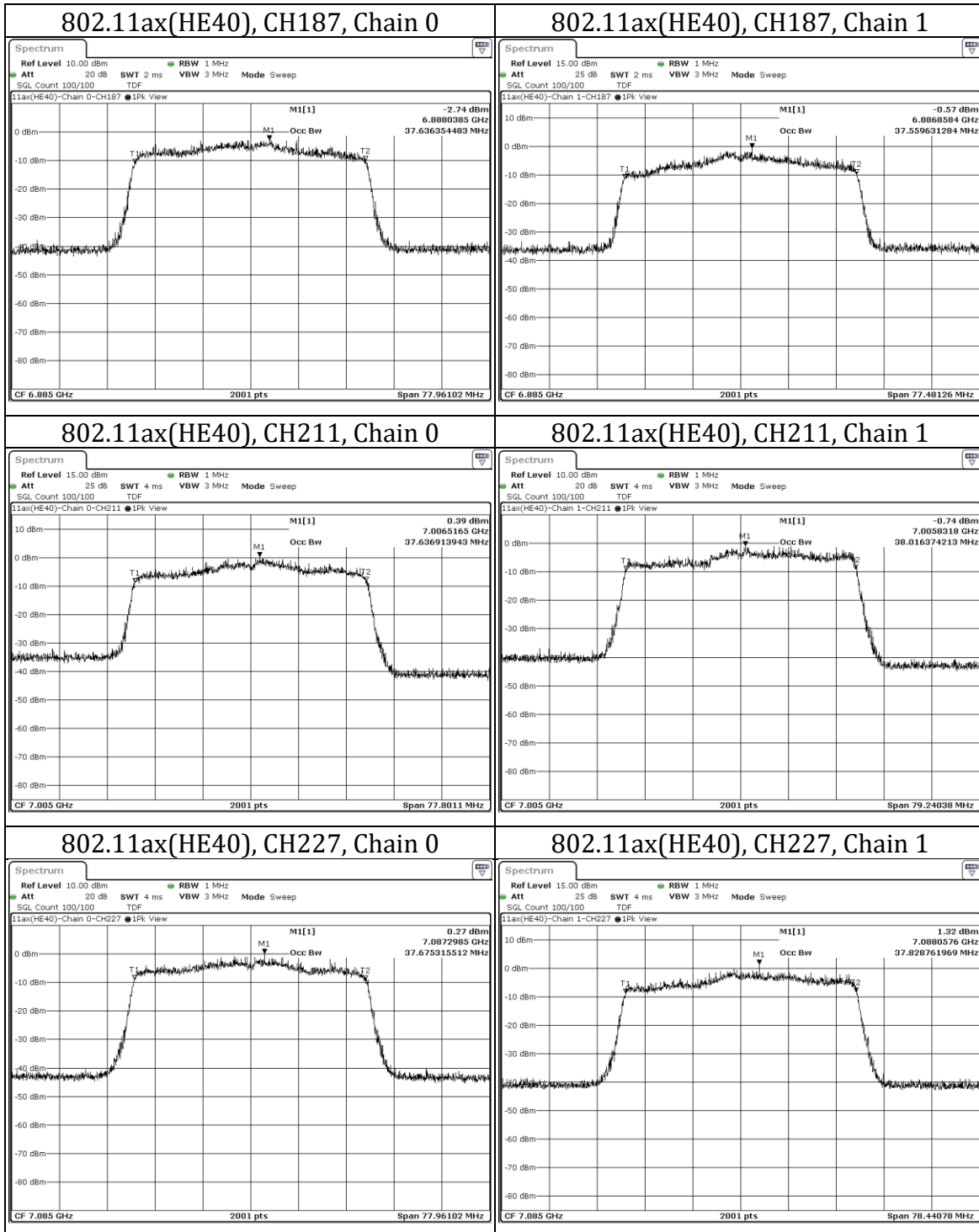
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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE80)	7	5985	77.481	77.161	320	Pass
	39	6145	77.401	75.802	320	Pass
	87	6385	77.321	75.082	320	Pass
	103	6465	77.641	76.602	320	Pass
	119	6545	77.481	77.801	320	Pass
	135	6625	77.481	78.201	320	Pass
	151	6705	77.961	77.481	320	Pass
	167	6785	77.561	78.521	320	Pass
	183	6865	77.561	78.041	320	Pass
	199	6945	77.401	77.721	320	Pass
	215	7025	76.922	76.282	320	Pass

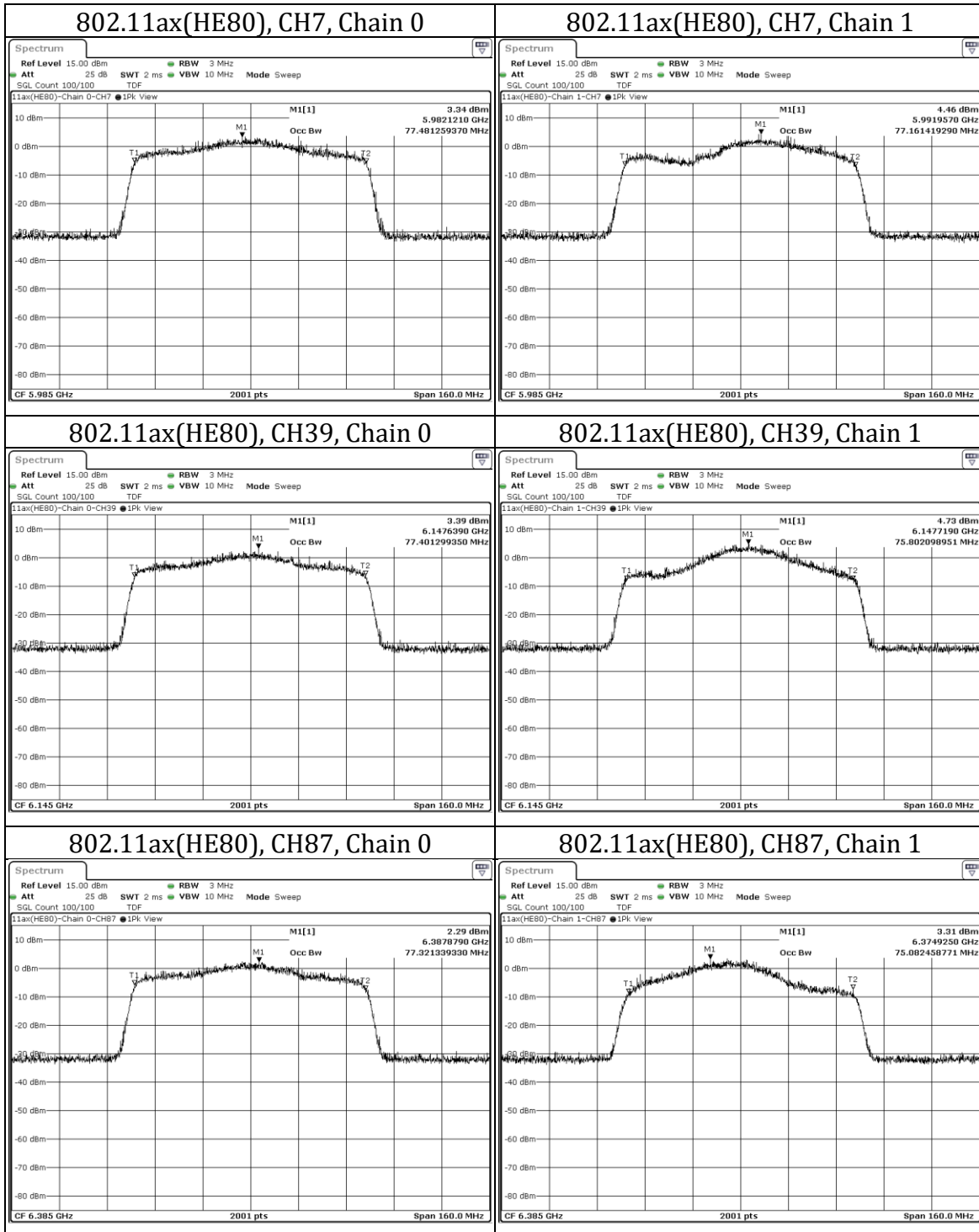
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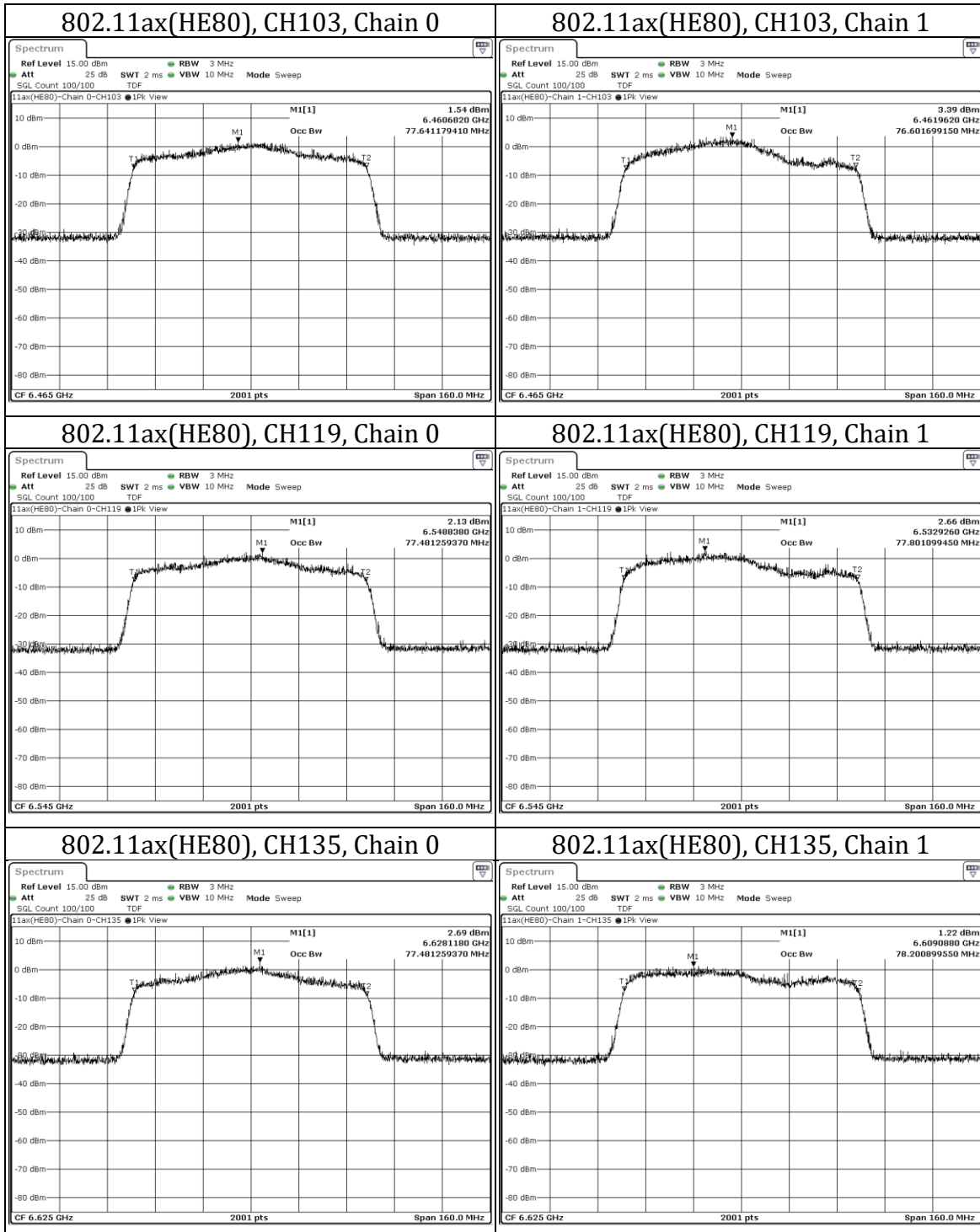


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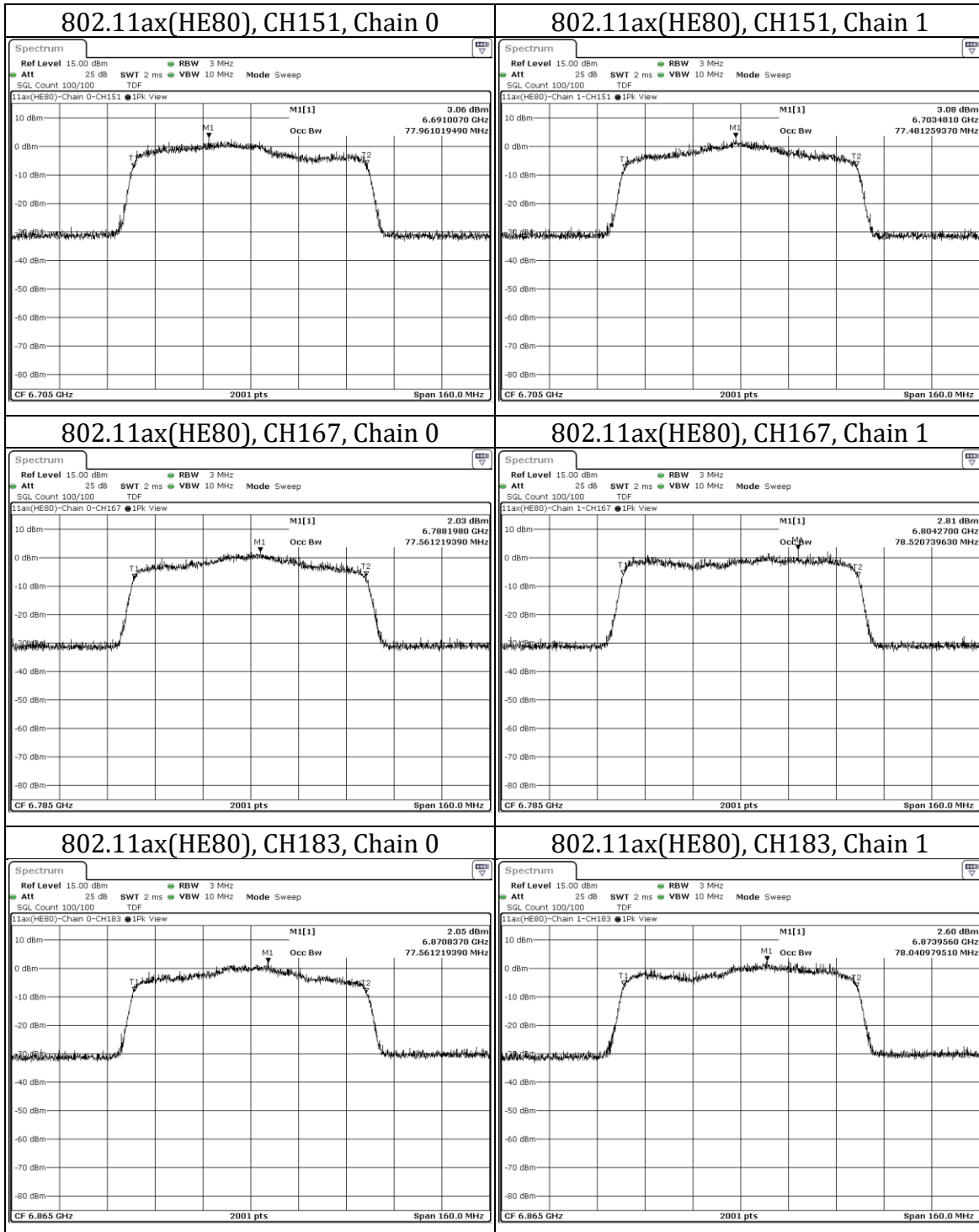
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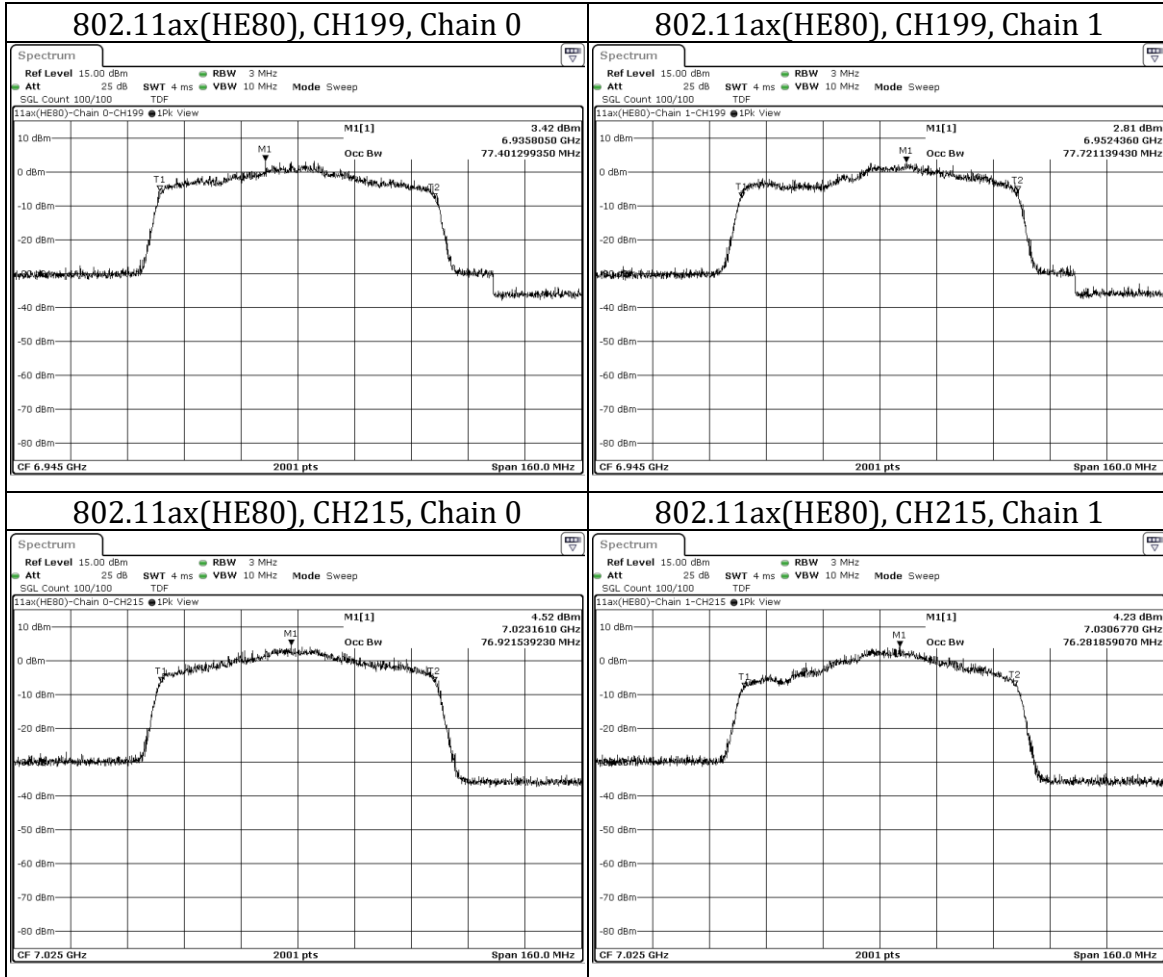
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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE160)	15	6025	155.383	155.698	320	Pass
	47	6185	159.178	155.539	320	Pass
	79	6345	160.607	156.011	320	Pass
	111	6505	171.683	155.701	320	Pass
	143	6665	156.18	156.021	320	Pass
	175	6825	156.657	156.337	320	Pass
	207	6985	155.698	154.432	320	Pass

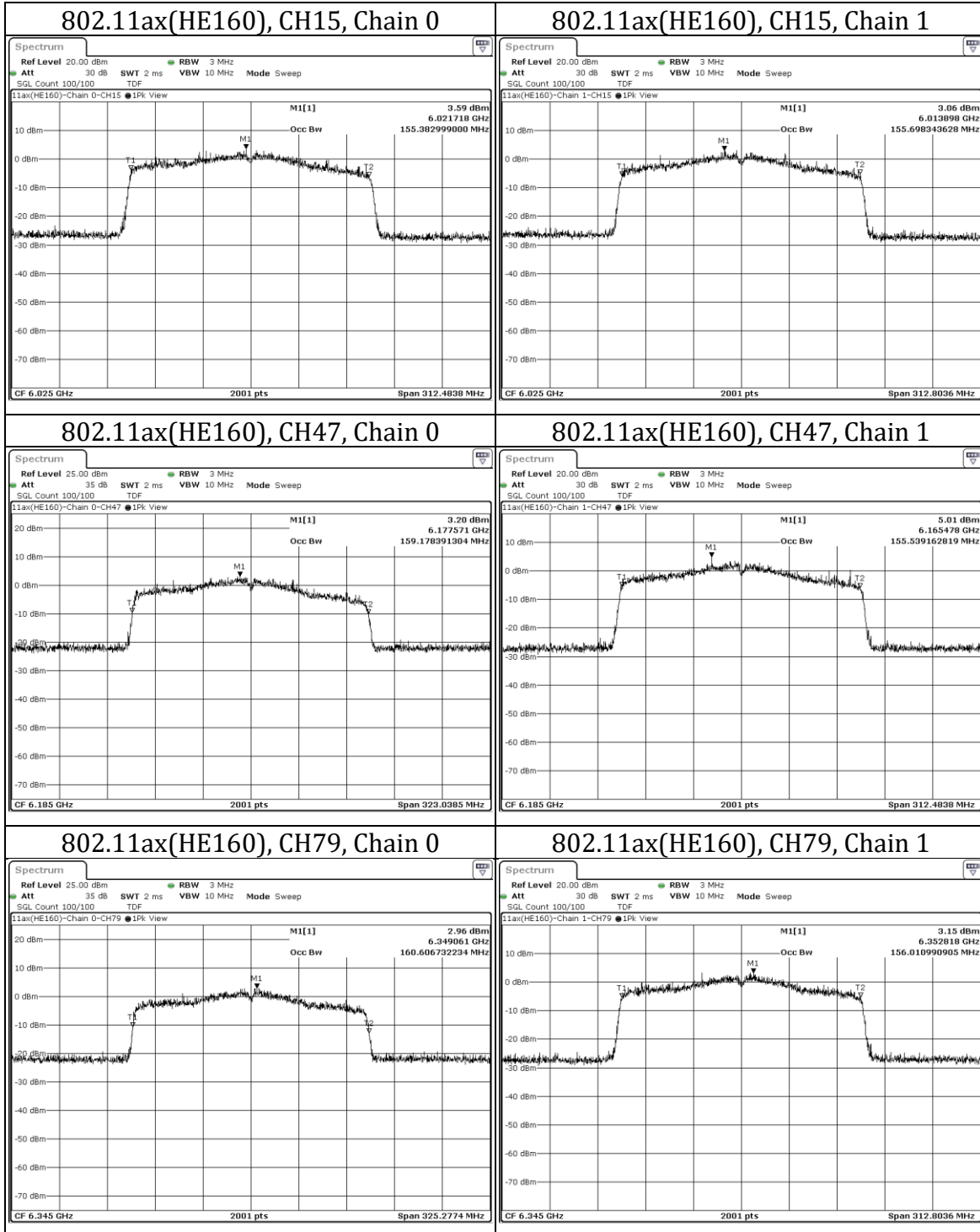
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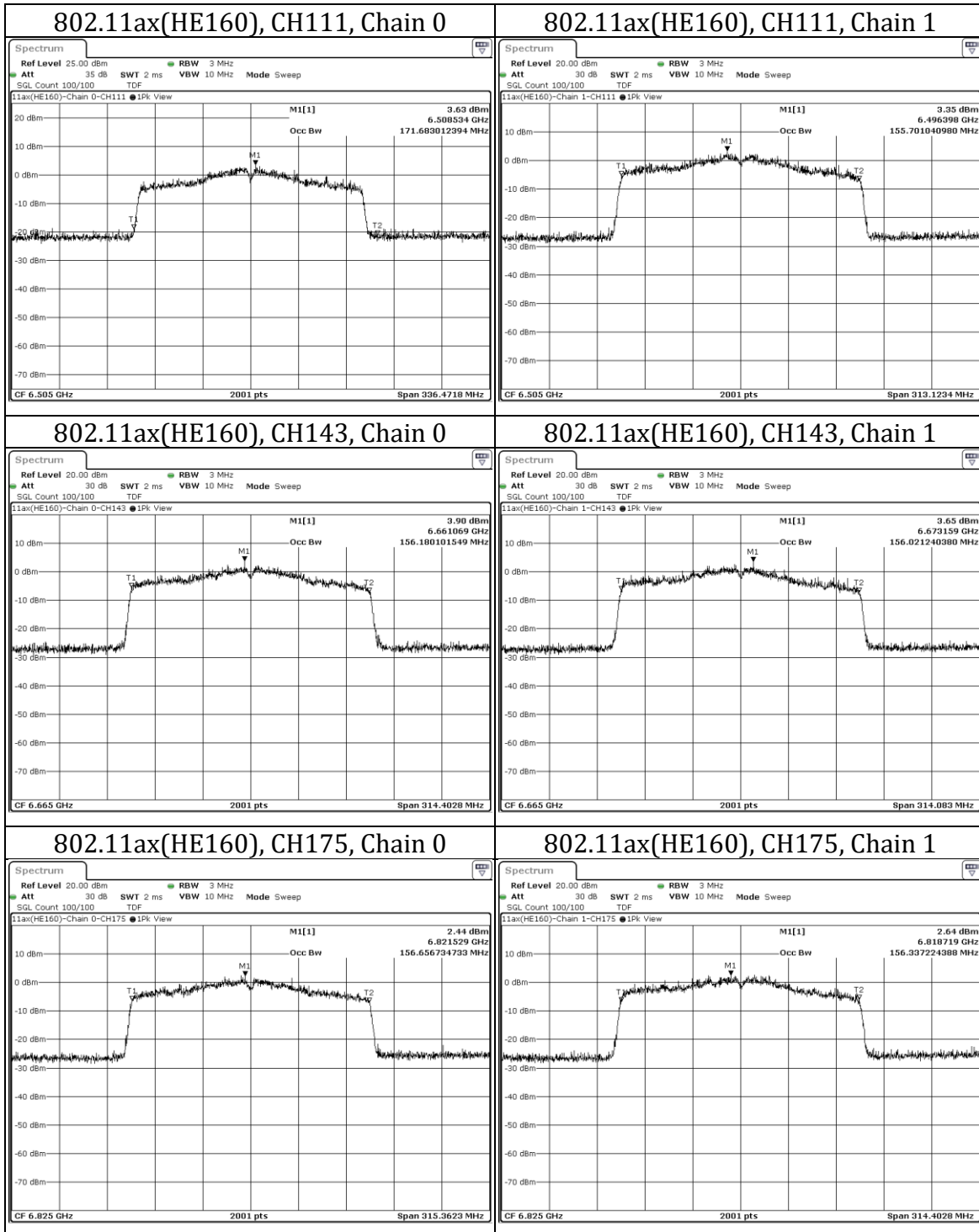
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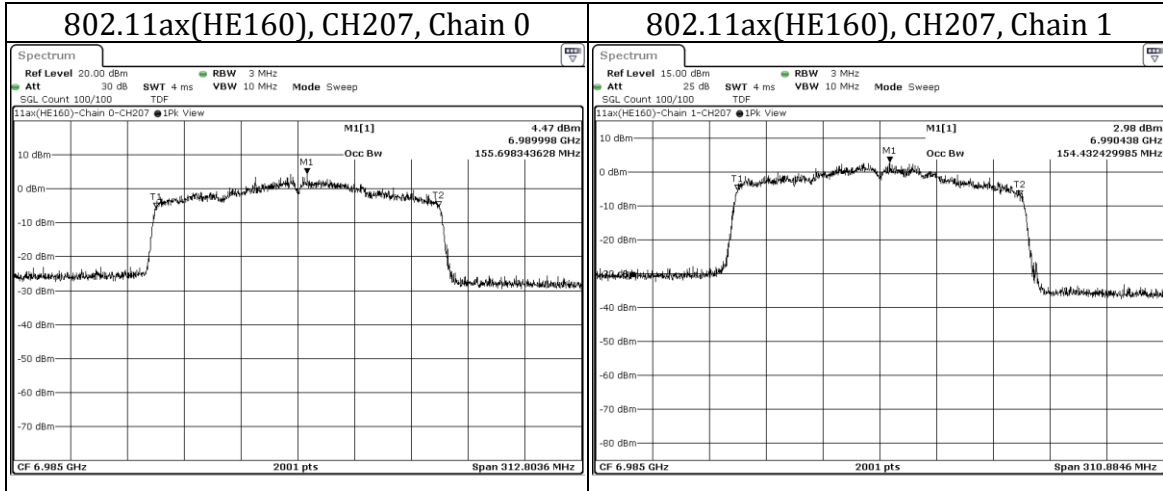
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### 9.3. Transmit Power Measurement

#### Requirements

EUT Category		Operation Band	Limit
			Max Average Power
	Standard Power AP (6SD)	U-NII-5 U-NII-7	EIRP ≤ 36 dBm
			Outdoor device and any elevation angle above 30 degrees: EIRP ≤ 21 dBm
	Fixed Client (6FC)	U-NII-5 U-NII-7	EIRP ≤ 36 dBm
			Any elevation angle above 30 degrees: EIRP ≤ 21 dBm
	Standard Client (6FX)	U-NII-5 U-NII-7	EIRP ≤ 30 dBm
	Indoor AP (6ID)	U-NII-5, U-NII-6 U-NII-7, U-NII-8	EIRP ≤ 30 dBm
	Subordinate (6PP)	U-NII-5, U-NII-6 U-NII-7, U-NII-8	EIRP ≤ 30 dBm
√	Indoor Client (6XD)	U-NII-5, U-NII-6 U-NII-7, U-NII-8	EIRP ≤ 24 dBm
	Dual Client (6CD)	Control of a low power indoor AP: U-NII-5, U-NII-6 U-NII-7, U-NII-8	EIRP ≤ 24 dBm
		Control of a standard power AP: U-NII-5, U-NII-7	EIRP ≤ 30 dBm

Note:

1.  $P_{Out}$  = maximum conducted output power in dBm,
2.  $G_{TX}$  = the maximum transmitting antenna directional gain in dBi.
3. Directional Gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ant}]$  dBi.  
 $N_{ant}$ : Number of Transmit Antennas  
 $G1, G2, \dots, Gn$ : Gain of Individual Antennas  
Example: two antenna and gain 5 dBi / 3dBi, so if it was used for TxBF power measurement  
Directional Gain =  $10 \log[(10^{5/20} + 10^{3/20})^2 / 2]$  dBi = 7.07 dBi
4. Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,  
Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;  
Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;  
Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .  
For power measurements on all other devices: Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.  
Example: Maximum antenna gain = 5 dBi and  $N_{ANT} \leq 4$ , so if it was used for CDD power measurement  
Directional Gain = 5 dBi + Array Gain = 5 dBi + 0 dB = 5 dBi
5. For power measurement of KDB 662911 is used with multiple transmitter output. Total conducted power is the sum of the conducted power levels measured at the various output ports.
6. EIRP Power = Sum of the conducted power levels + Directional Gain.

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## Test Procedure

### For Average Power Measurement

#### Test method PM

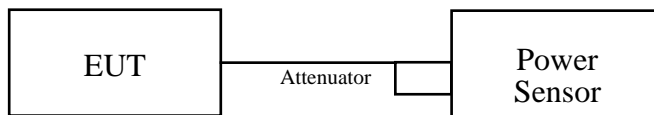
Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

\* If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98\%$ , and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

EIRP = Maximum Conducted Power + Directional Gain

## Test Setup

### For Average Power Measurement



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

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## Test Data

### Non-Beamforming mode

#### 802.11a

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
2	5935	-0.36	-0.99	2.35	5.00	7.35	24	PASS
1	5955	-0.97	-3.65	0.90	5.00	5.90	24	PASS
45	6175	-1.48	-1.55	1.50	5.00	6.50	24	PASS
93	6415	-0.93	-1.77	1.68	5.00	6.68	24	PASS
97	6435	-0.62	-1.05	2.18	5.00	7.18	24	PASS
105	6475	-1.05	-1.01	1.98	5.00	6.98	24	PASS
113	6515	-0.52	-1.28	2.13	5.00	7.13	24	PASS
117	6535	-0.92	-0.86	2.12	5.00	7.12	24	PASS
149	6695	-1.61	-1.57	1.42	5.00	6.42	24	PASS
181	6855	-0.94	-1.35	1.87	5.00	6.87	24	PASS
185	6875	-0.29	-1.36	2.22	5.00	7.22	24	PASS
209	6995	0.26	-0.14	3.07	5.00	8.07	24	PASS
229	7095	-0.28	-1.26	2.27	5.00	7.27	24	PASS
233	7115	-0.51	-2.10	1.78	5.00	6.78	24	PASS

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802.11ax (HE20)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
2	5935	0.12	-0.66	2.76	5.00	7.76	24	PASS
1	5955	0.35	-0.81	2.82	5.00	7.82	24	PASS
45	6175	-0.60	-0.61	2.41	5.00	7.41	24	PASS
93	6415	-0.42	-1.28	2.18	5.00	7.18	24	PASS
97	6435	-0.34	-0.11	2.79	5.00	7.79	24	PASS
105	6475	-0.72	-0.84	2.23	5.00	7.23	24	PASS
113	6515	-0.22	-0.79	2.51	5.00	7.51	24	PASS
117	6535	-0.61	-0.37	2.52	5.00	7.52	24	PASS
149	6695	-0.95	0.09	2.61	5.00	7.61	24	PASS
181	6855	-0.51	-0.82	2.35	5.00	7.35	24	PASS
185	6875	-0.03	-0.90	2.57	5.00	7.57	24	PASS
209	6995	-0.78	-0.71	2.27	5.00	7.27	24	PASS
229	7095	-1.44	-1.76	1.41	5.00	6.41	24	PASS
233	7115	-1.62	-2.70	0.88	5.00	5.88	24	PASS

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**802.11ax (HE40)**

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
3	5965	3.05	2.12	5.62	5.00	10.62	24	PASS
43	6165	2.00	1.72	4.87	5.00	9.87	24	PASS
91	6405	1.94	2.27	5.12	5.00	10.12	24	PASS
99	6445	1.66	2.31	5.01	5.00	10.01	24	PASS
107	6485	2.34	2.61	5.49	5.00	10.49	24	PASS
115	6525	1.01	1.12	4.08	5.00	9.08	24	PASS
123	6565	2.23	1.75	5.01	5.00	10.01	24	PASS
155	6725	2.26	2.24	5.26	5.00	10.26	24	PASS
179	6845	2.42	2.83	5.64	5.00	10.64	24	PASS
187	6885	1.90	2.60	5.27	5.00	10.27	24	PASS
211	7005	2.70	1.49	5.15	5.00	10.15	24	PASS
227	7085	1.87	2.35	5.13	5.00	10.13	24	PASS

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### 802.11ax (HE80)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
7	5985	5.06	4.49	7.79	5.00	12.79	24	PASS
39	6145	3.74	3.66	6.71	5.00	11.71	24	PASS
87	6385	4.16	3.76	6.97	5.00	11.97	24	PASS
103	6465	4.10	4.65	7.39	5.00	12.39	24	PASS
119	6545	4.05	4.54	7.31	5.00	12.31	24	PASS
135	6625	5.19	4.77	8.00	5.00	13.00	24	PASS
151	6705	5.53	4.98	8.27	5.00	13.27	24	PASS
167	6785	5.85	5.91	8.89	5.00	13.89	24	PASS
183	6865	4.77	5.61	8.22	5.00	13.22	24	PASS
199	6945	5.05	5.24	8.16	5.00	13.16	24	PASS
215	7025	4.35	4.44	7.41	5.00	12.41	24	PASS

### 802.11ax (HE160)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
15	6025	8.81	8.43	11.63	5.00	16.63	24	PASS
47	6185	8.28	8.24	11.27	5.00	16.27	24	PASS
79	6345	8.34	7.84	11.11	5.00	16.11	24	PASS
111	6505	8.10	7.74	10.93	5.00	15.93	24	PASS
143	6665	7.94	7.21	10.60	5.00	15.60	24	PASS
175	6825	7.75	8.06	10.92	5.00	15.92	24	PASS
207	6985	8.27	7.30	10.82	5.00	15.82	24	PASS

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