

Underwriters Laboratories Taiwan Co., Ltd.

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9.2. Occupied Bandwidth

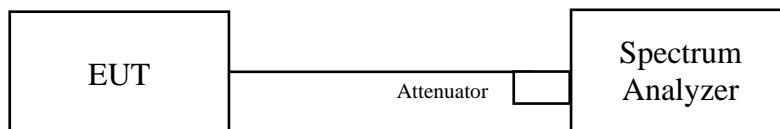
Requirements

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320MHz.

Test procedure

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1% to 5% of the OBW
- Set VBW $\geq 3 \times$ RBW
- 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.
- Use the 99% power bandwidth function of the instrument (if available).
- 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	16.332	16.335	320	Pass
	1	5955	16.348	16.324	320	Pass
	45	6175	16.313	16.338	320	Pass
	93	6415	16.351	16.342	320	Pass
	97	6435	16.348	16.319	320	Pass
	105	6475	16.334	16.326	320	Pass
	113	6515	16.365	16.304	320	Pass
	117	6535	16.351	16.319	320	Pass
	149	6695	16.346	16.322	320	Pass
	181	6855	16.313	16.305	320	Pass
	185	6875	16.365	16.332	320	Pass
	209	6995	16.341	16.316	320	Pass
	229	7095	16.396	16.354	320	Pass
	233	7115	16.371	16.346	320	Pass

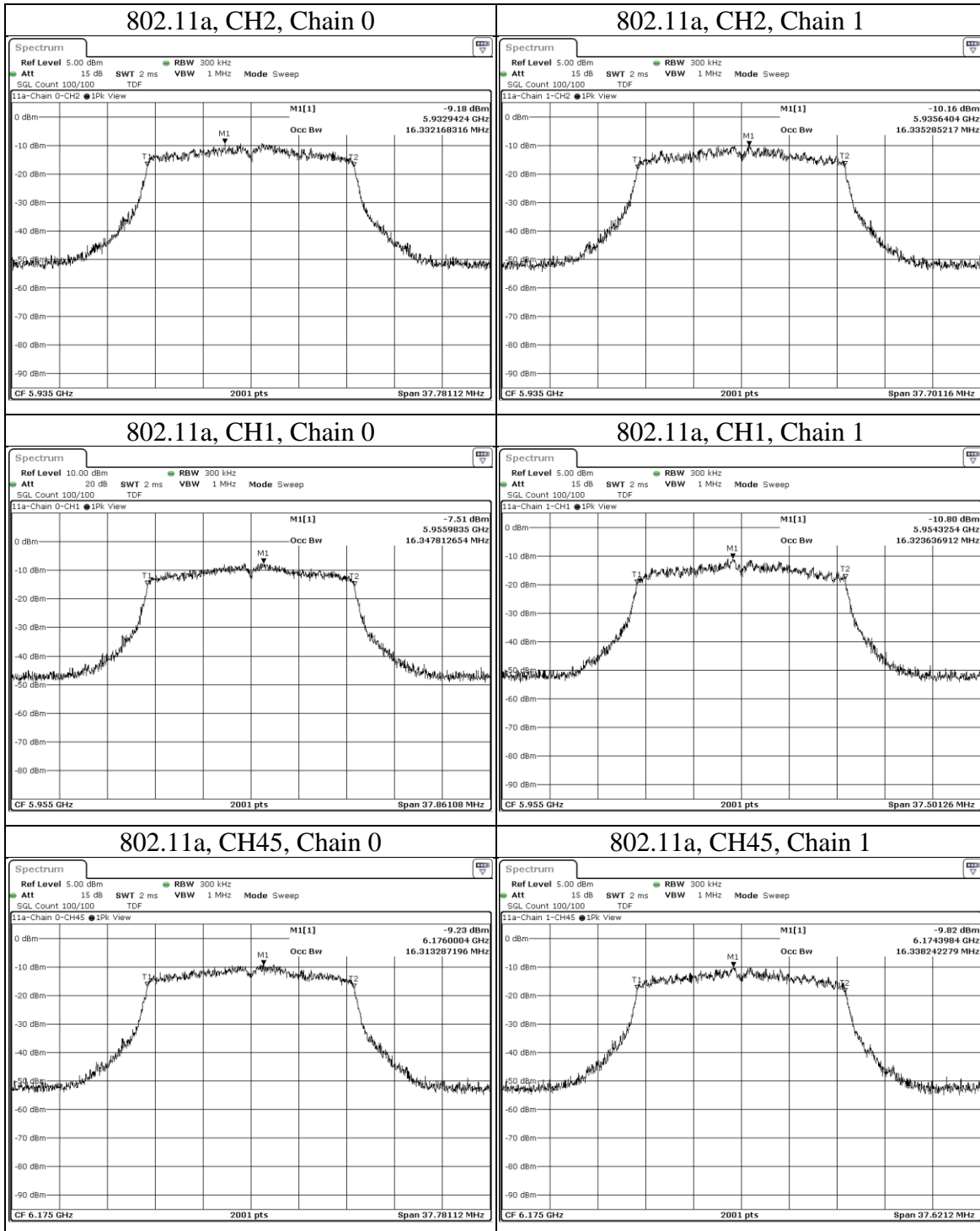
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Doc No: 17-EM-F0988 / 1.0



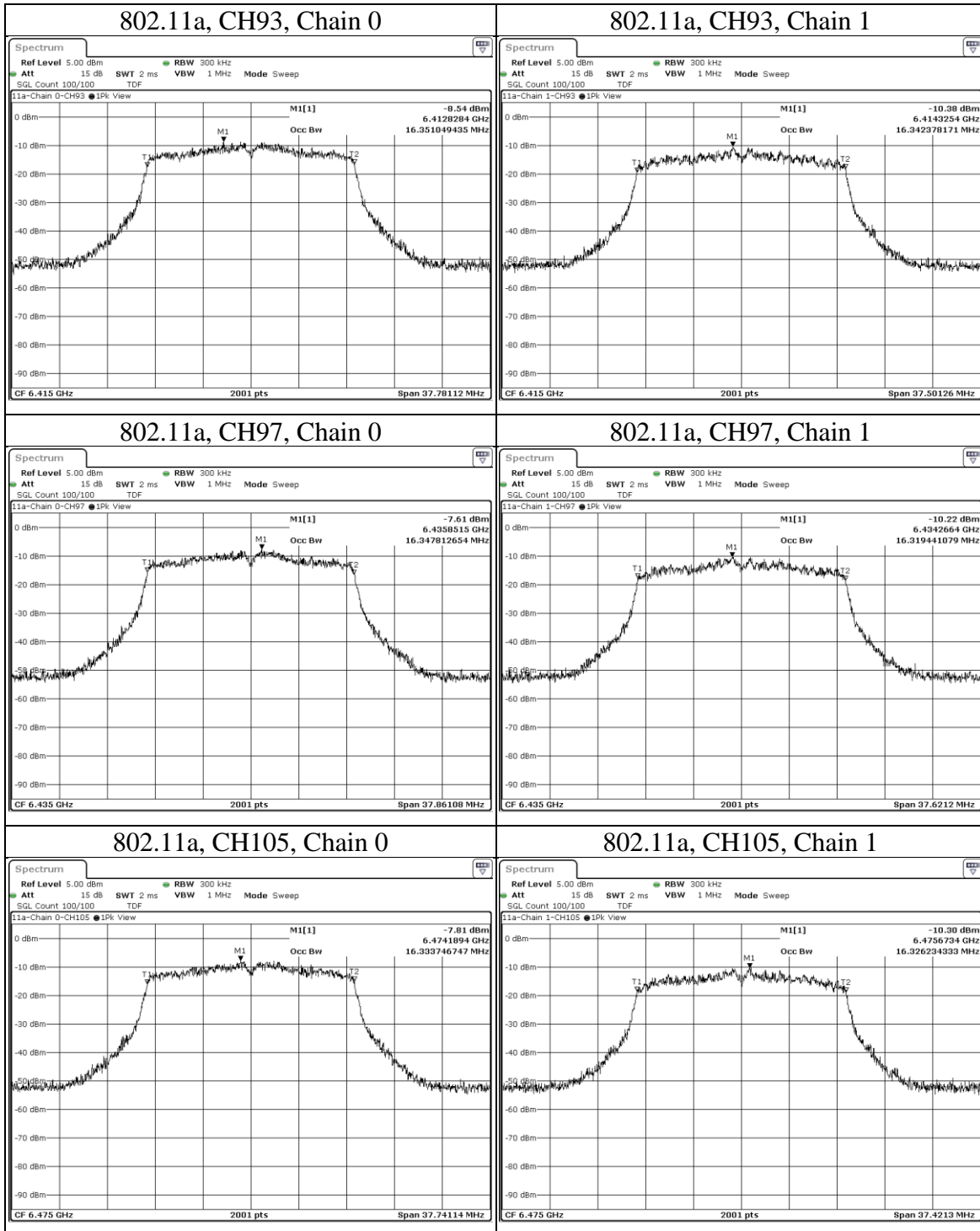
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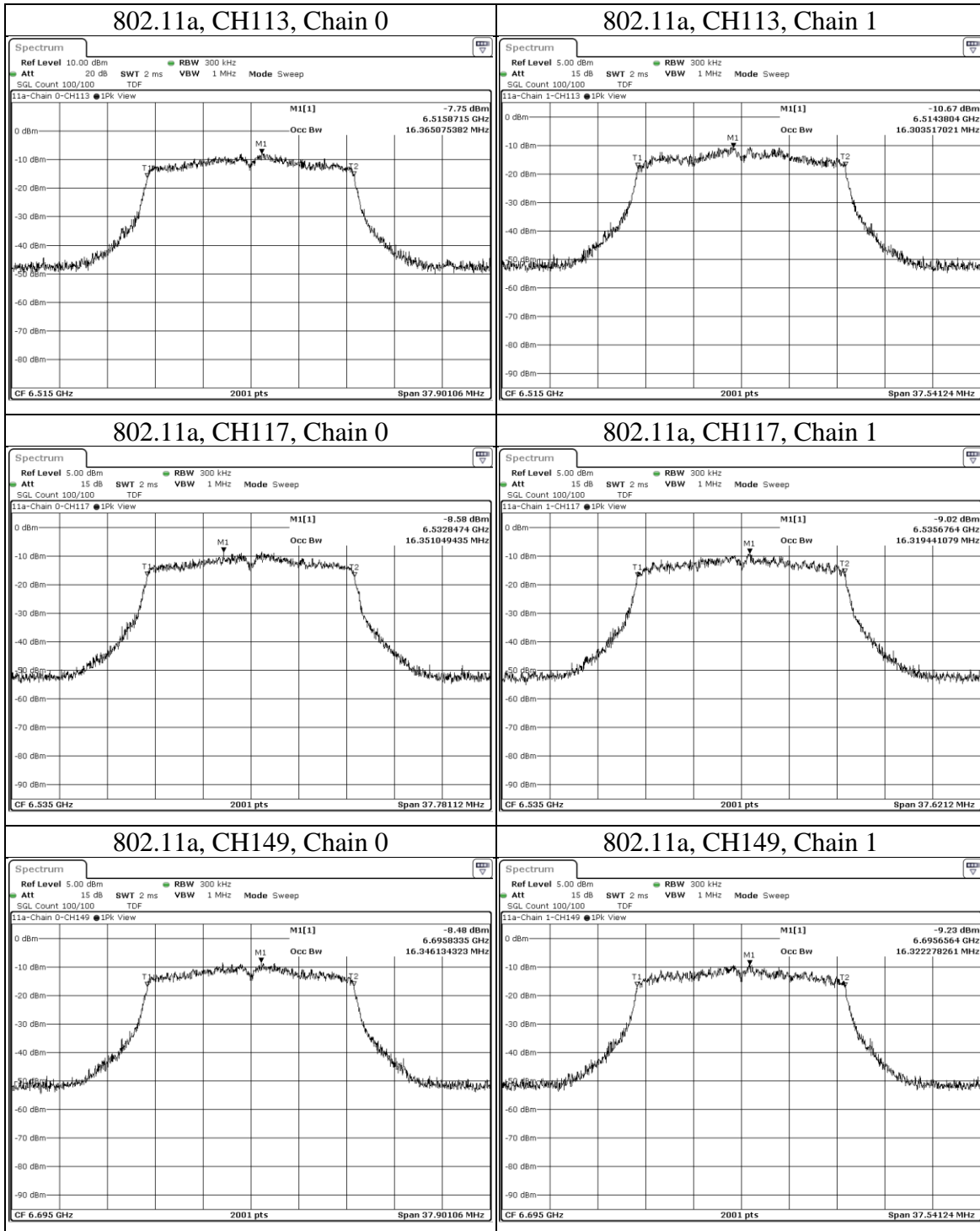


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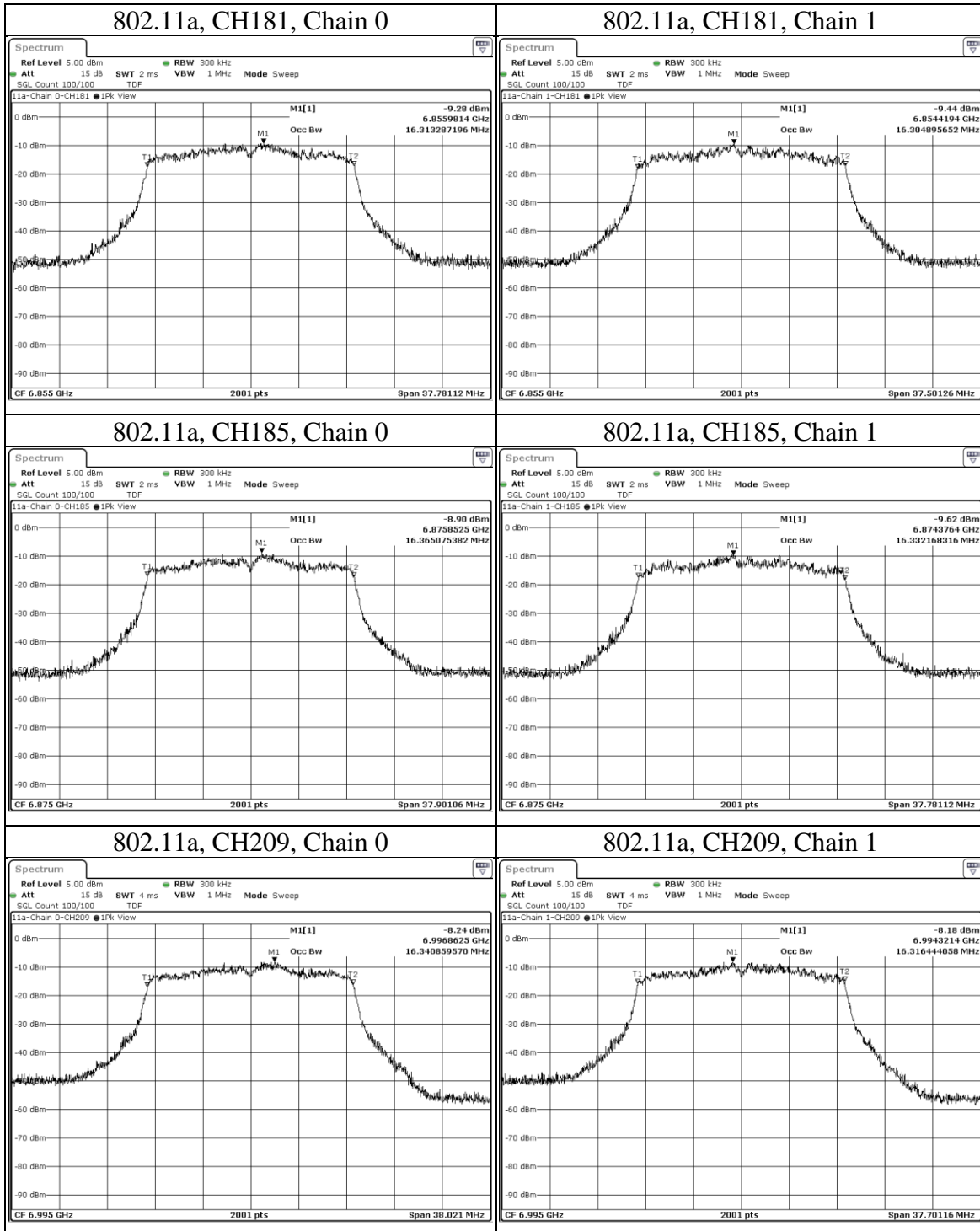


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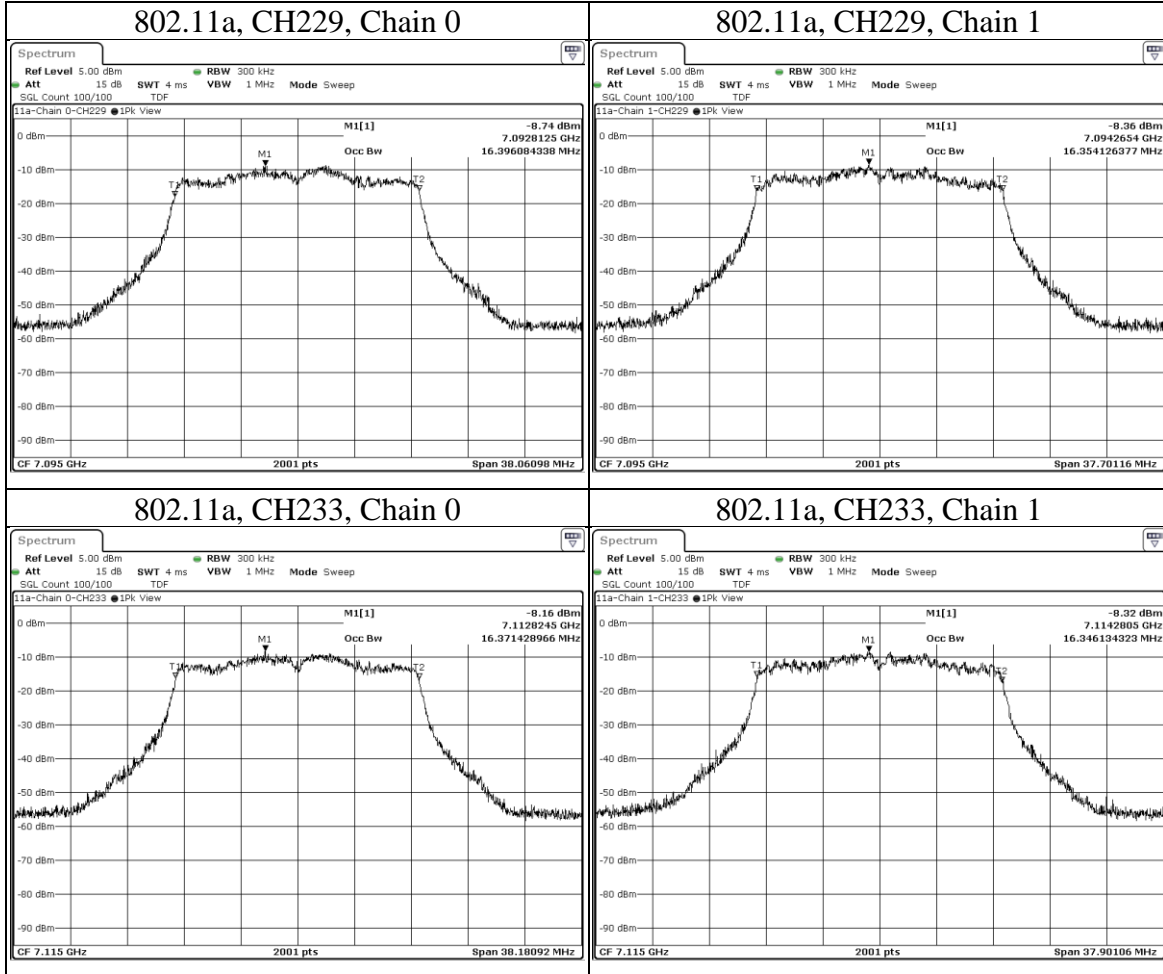
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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE20)	2	5935	18.956	18.926	320	Pass
	1	5955	18.947	18.968	320	Pass
	45	6175	18.938	19.049	320	Pass
	93	6415	18.959	19.023	320	Pass
	97	6435	18.875	18.986	320	Pass
	105	6475	18.971	19.015	320	Pass
	113	6515	18.92	19.001	320	Pass
	117	6535	18.959	18.938	320	Pass
	149	6695	18.935	18.986	320	Pass
	181	6855	18.908	18.991	320	Pass
	185	6875	18.92	19.007	320	Pass
	209	6995	18.941	18.997	320	Pass
	229	7095	18.865	18.956	320	Pass
	233	7115	18.88	18.887	320	Pass
	185	6875	18.92	19.007	320	Pass
	209	6995	18.941	18.997	320	Pass
	229	7095	18.865	18.956	320	Pass
	233	7115	18.88	18.887	320	Pass

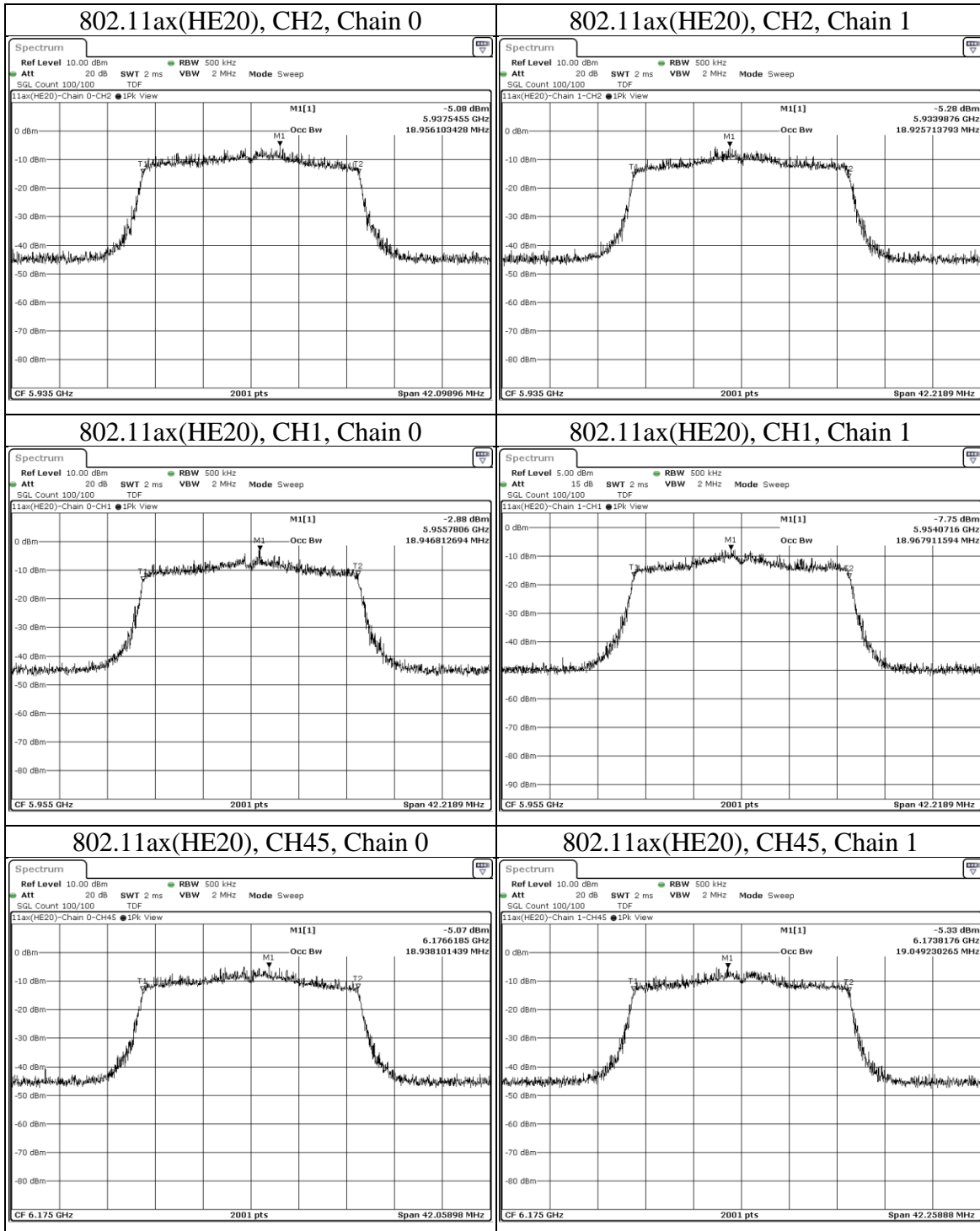
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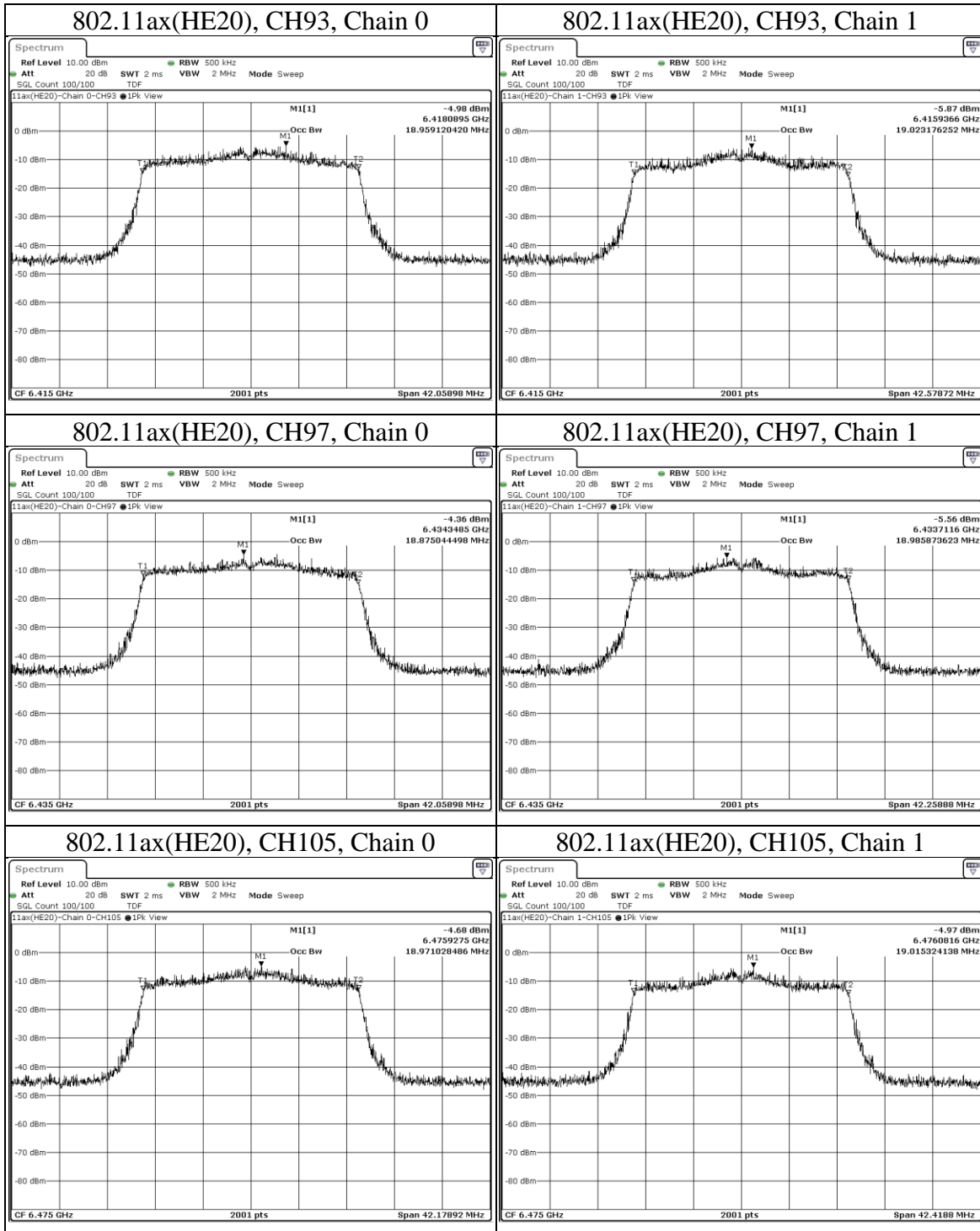


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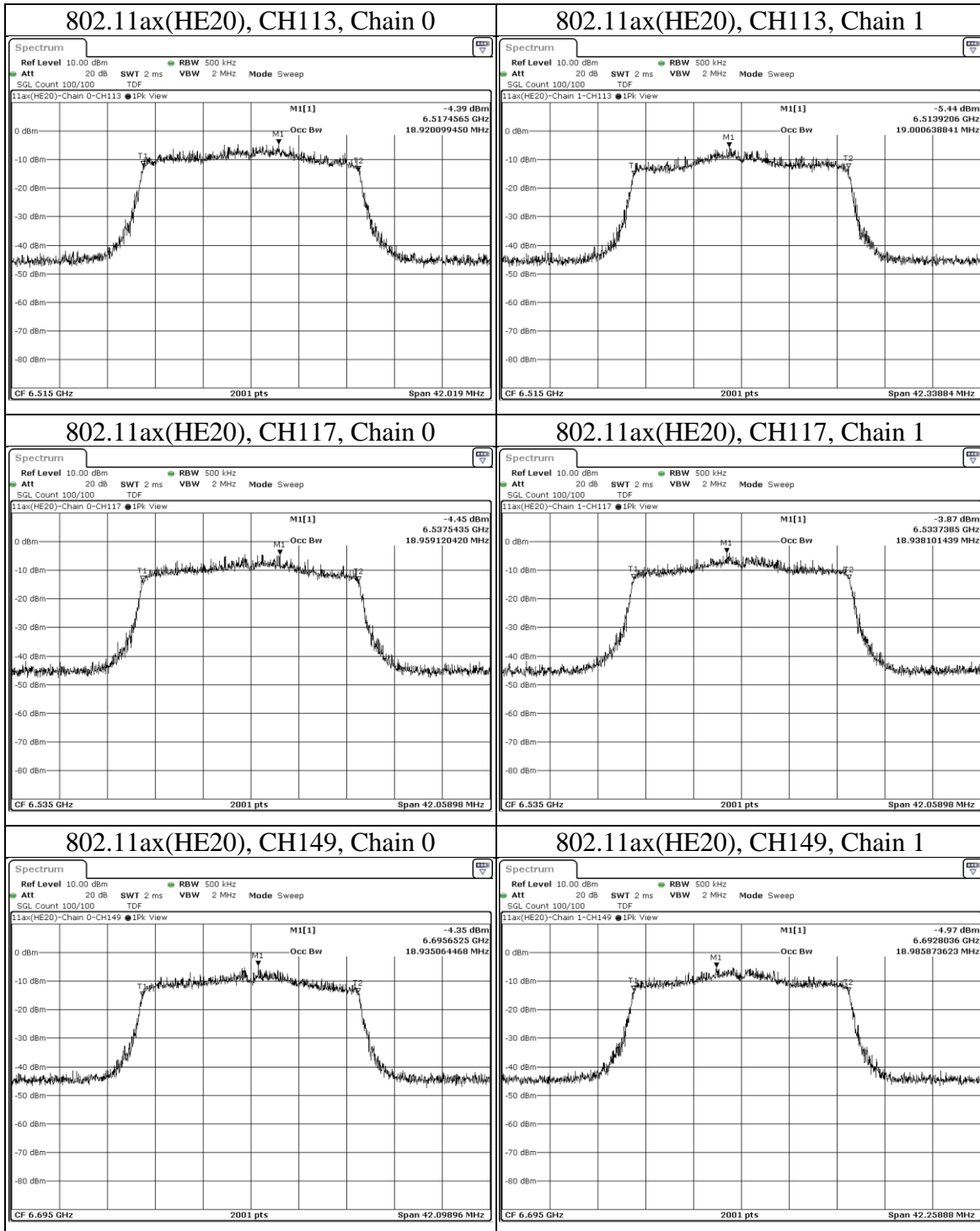


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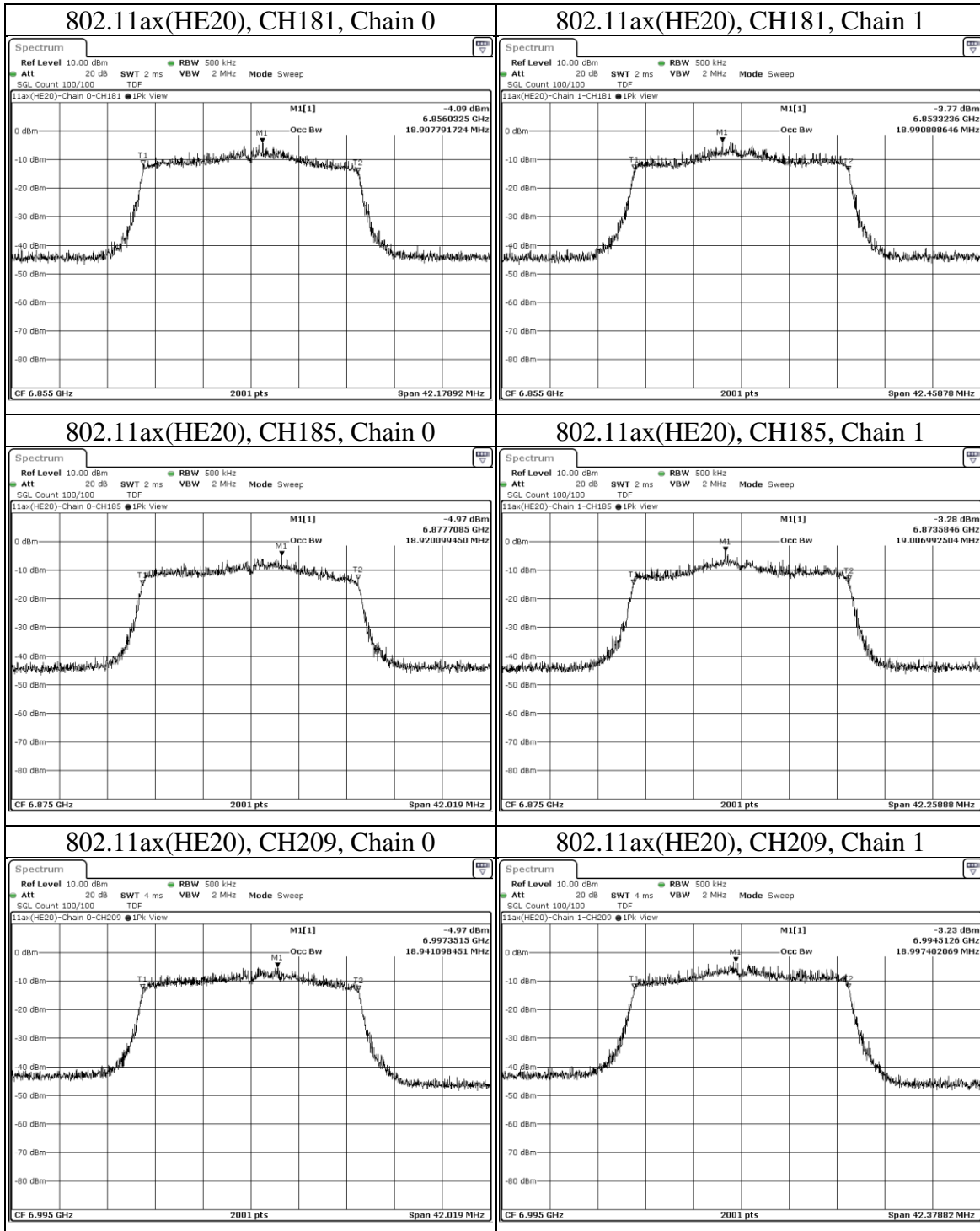


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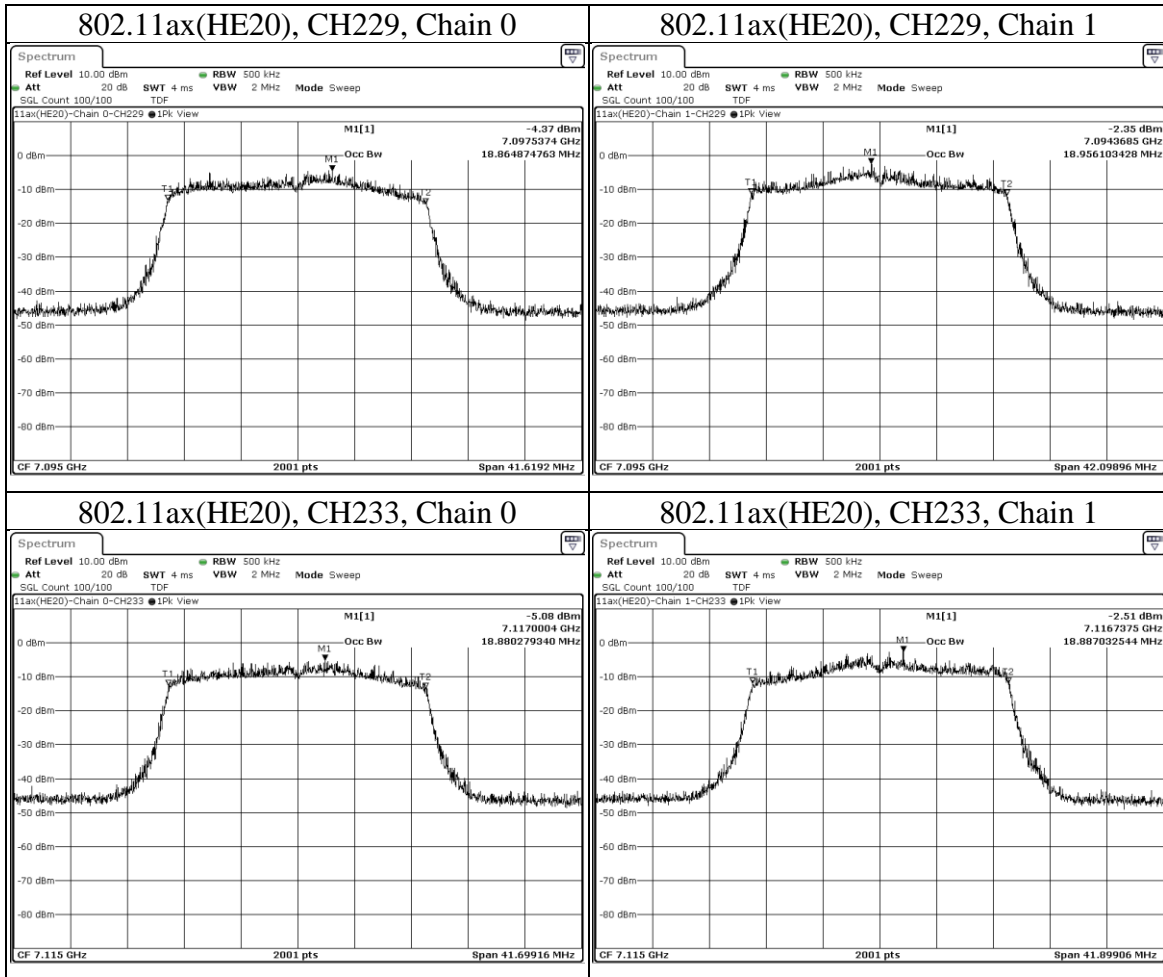


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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE40)	3	5965	37.714	37.675	320	Pass
	43	6165	37.403	37.83	320	Pass
	91	6405	37.753	37.715	320	Pass
	99	6445	37.637	37.637	320	Pass
	107	6485	37.753	37.713	320	Pass
	115	6525	37.675	37.83	320	Pass
	123	6565	37.715	37.79	320	Pass
	155	6725	37.676	38.094	320	Pass
	179	6845	37.676	37.791	320	Pass
	187	6885	37.676	37.907	320	Pass
	211	7005	37.637	37.827	320	Pass
	227	7085	37.56	37.979	320	Pass

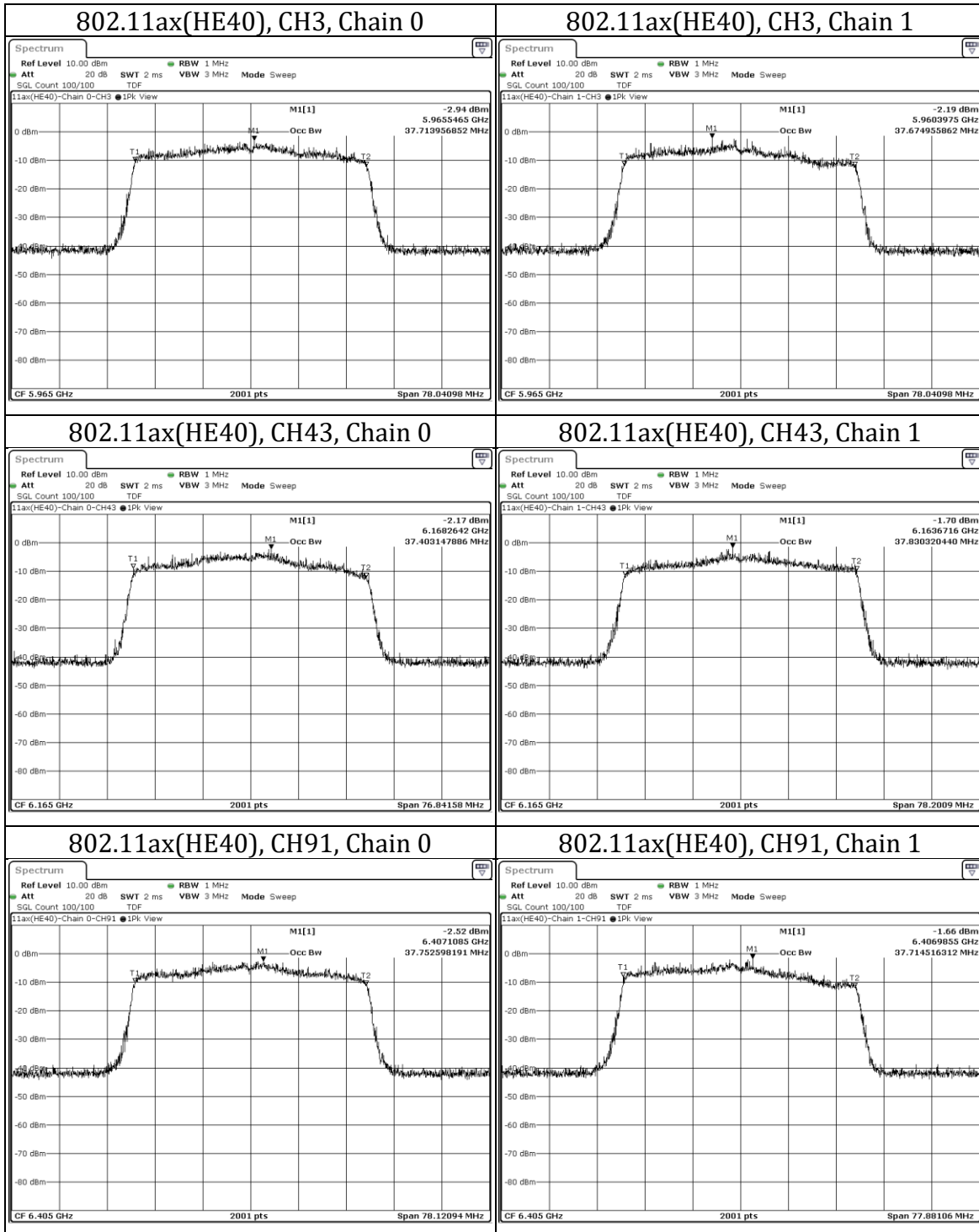
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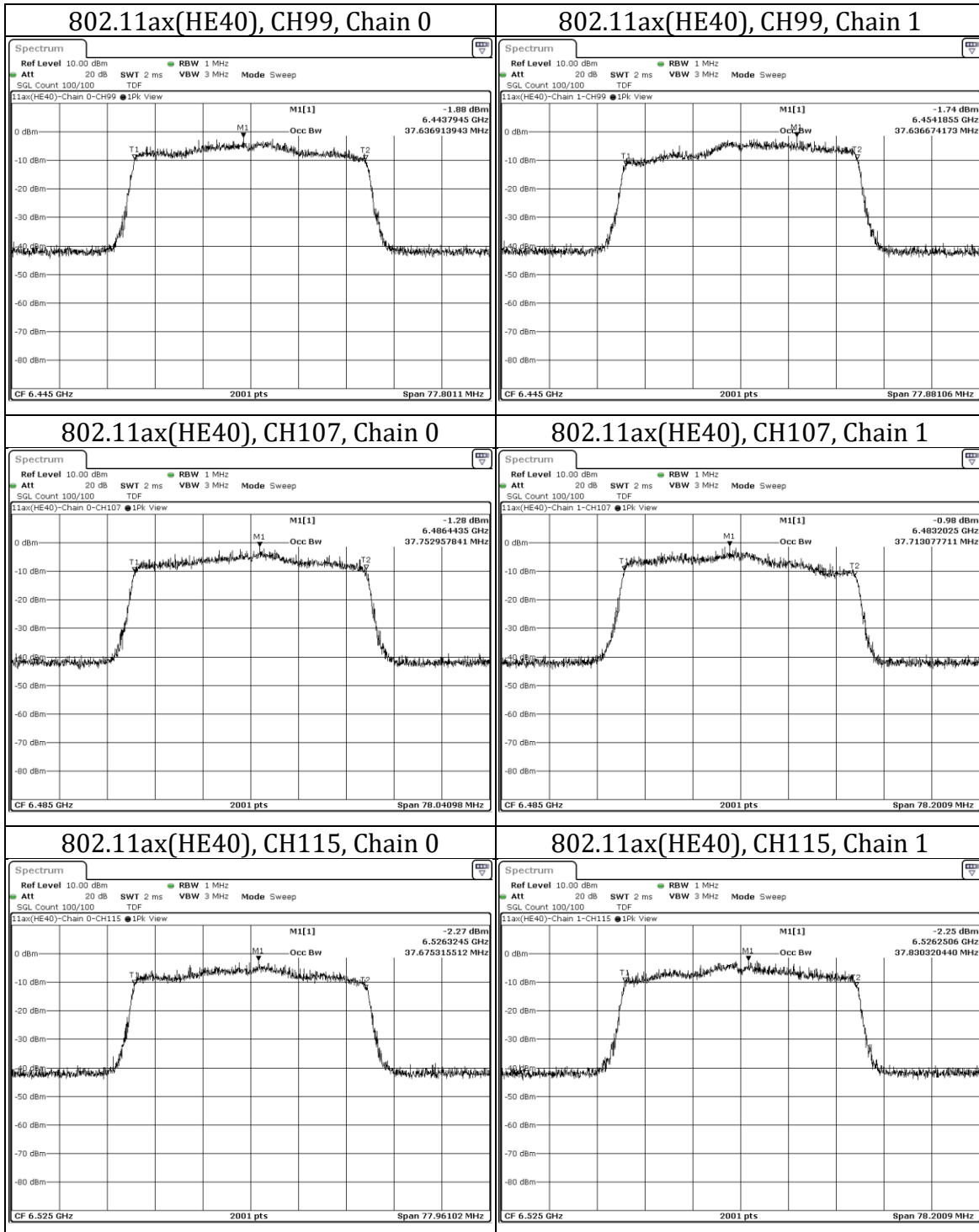


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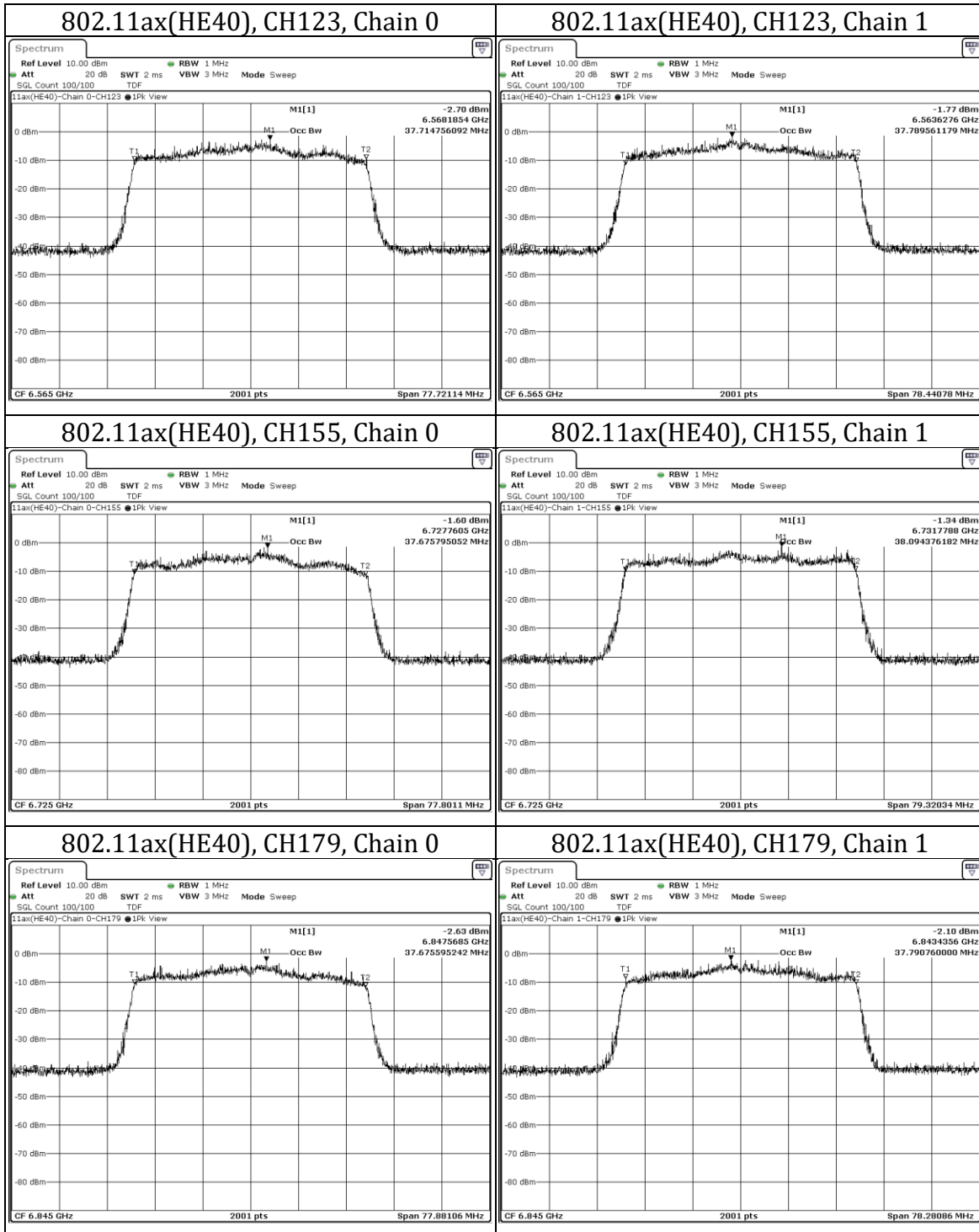


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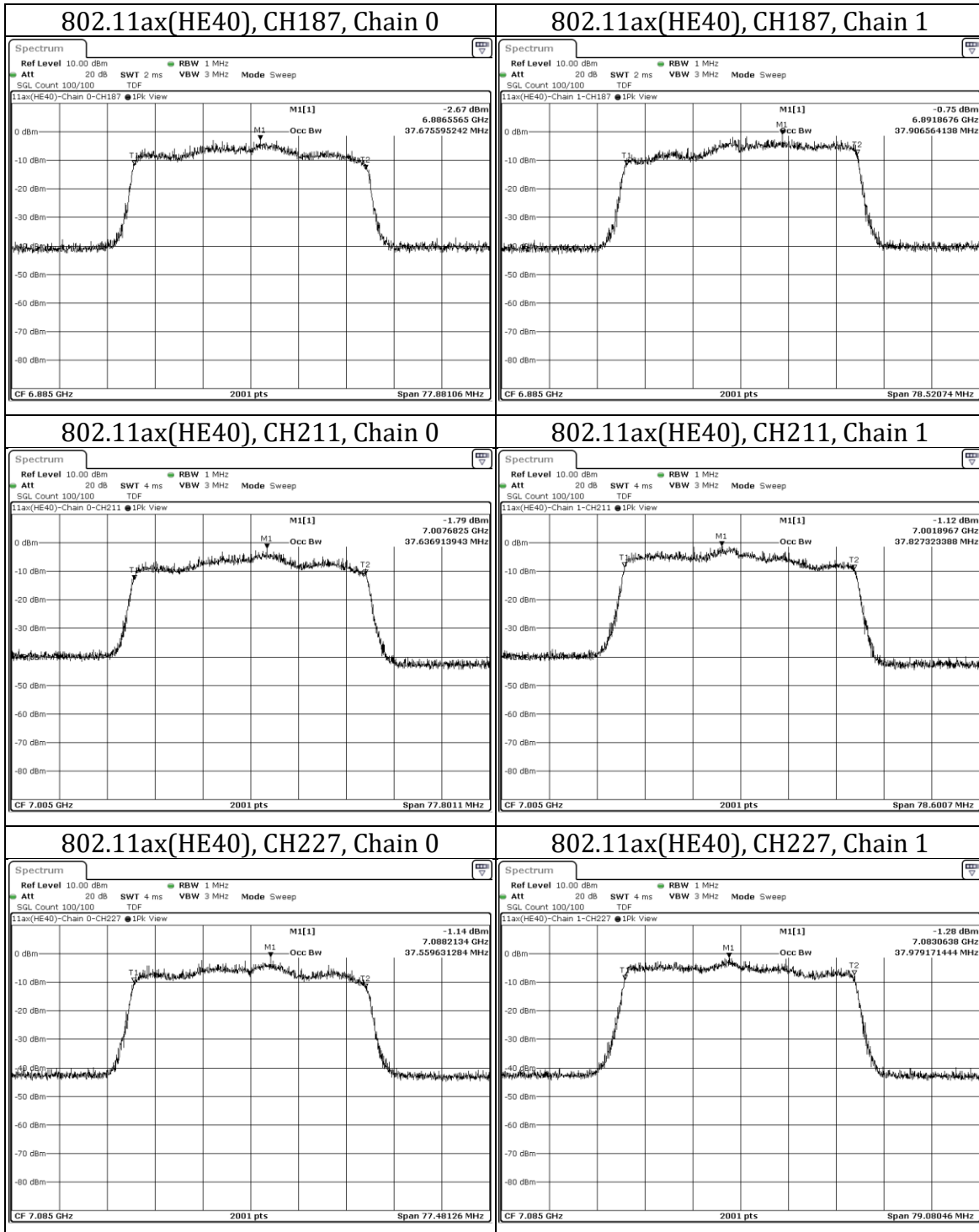


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Doc No: 17-EM-F0988 / 1.0



Test report No. : 4790042400-US-R2-V0
Page : 72 of 395
Issued date : 2022/1/28
FCC ID : RYK-WNFQ268AXB

Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE80)	7	5985	77.961	78.201	320	Pass
	39	6145	77.561	77.801	320	Pass
	87	6385	77.561	76.042	320	Pass
	103	6465	77.561	75.962	320	Pass
	119	6545	77.641	75.882	320	Pass
	135	6625	77.401	76.122	320	Pass
	151	6705	77.241	77.241	320	Pass
	167	6785	78.521	78.121	320	Pass
	183	6865	77.561	78.761	320	Pass
	199	6945	77.321	78.921	320	Pass
	215	7025	77.081	78.441	320	Pass

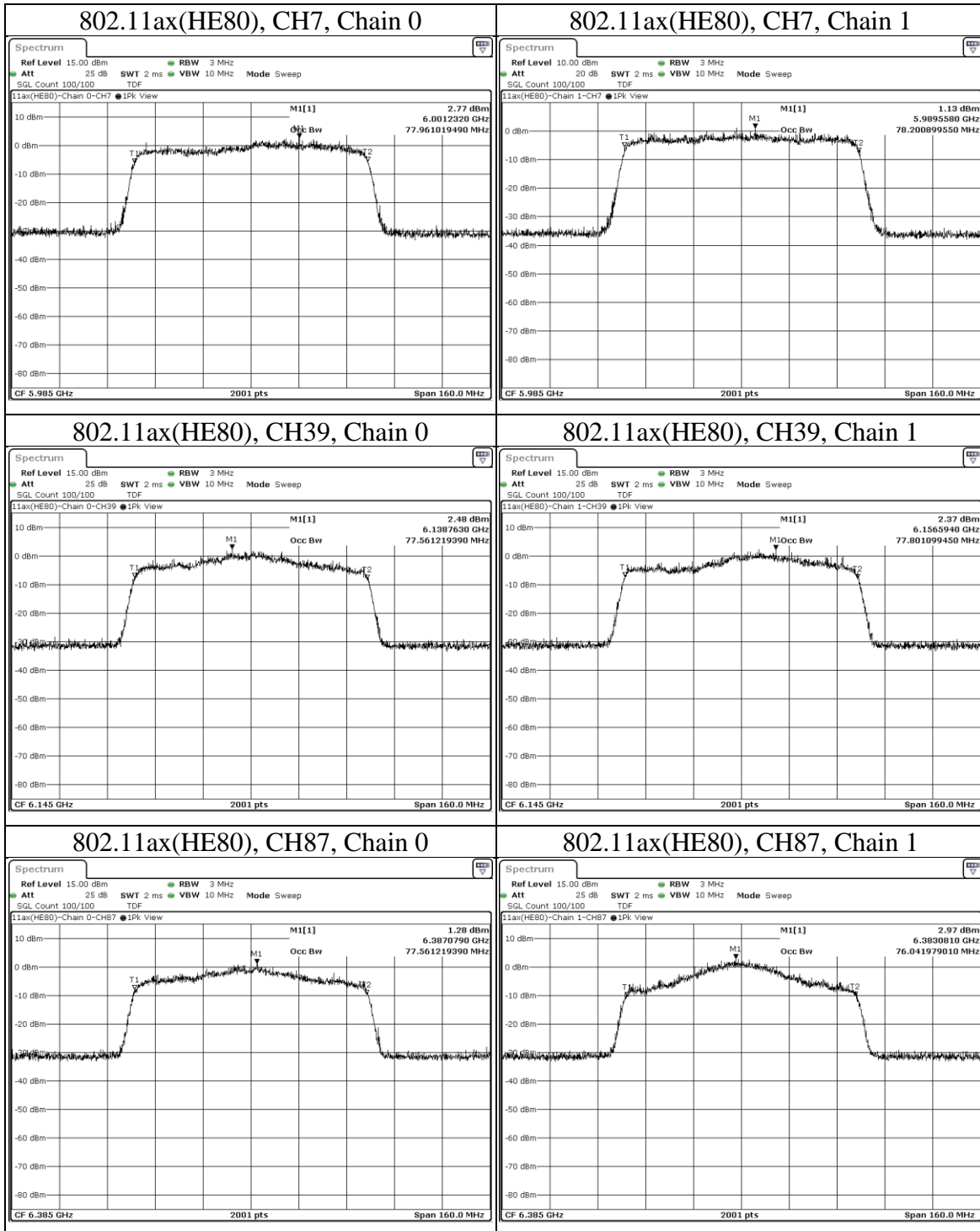
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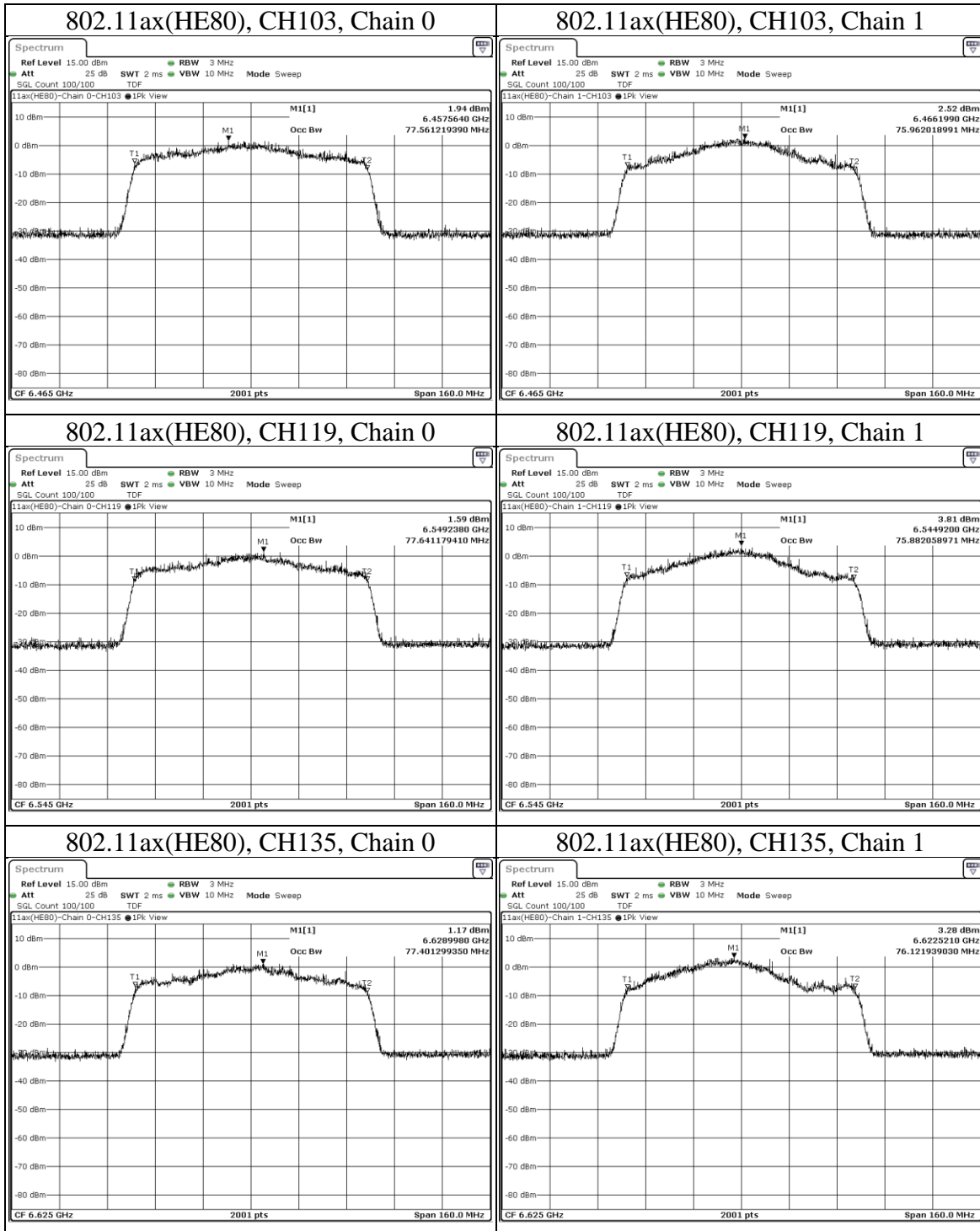


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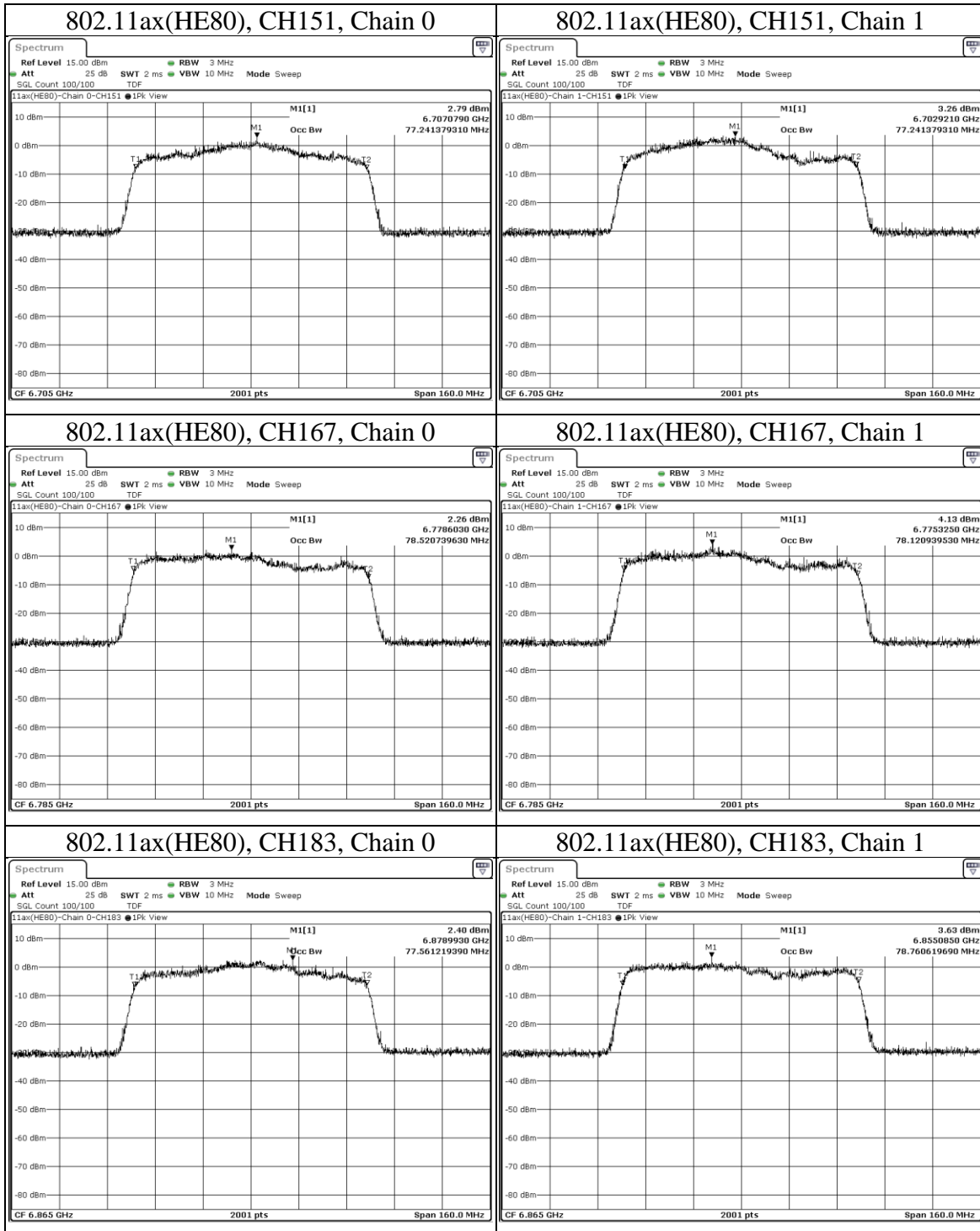


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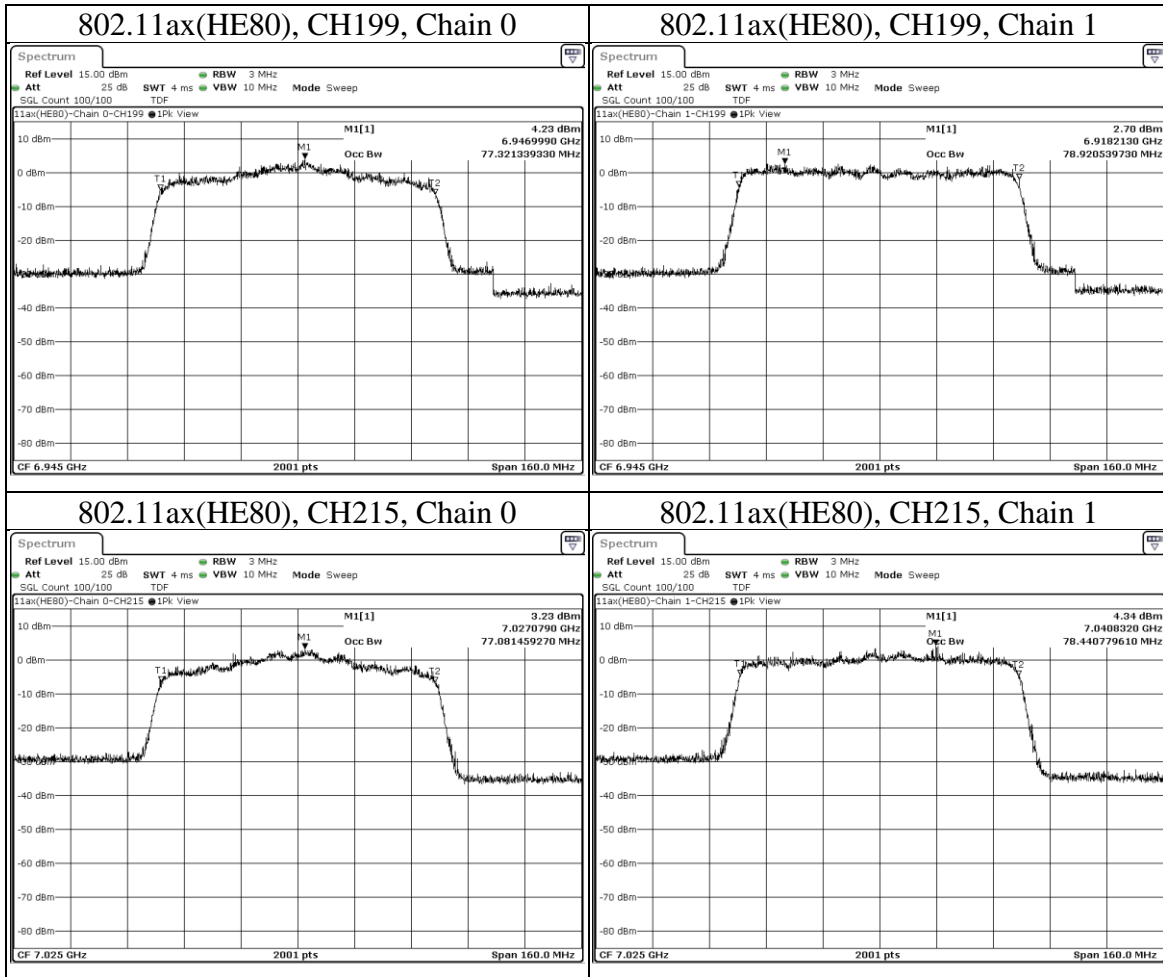


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Test report No. : 4790042400-US-R2-V0

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Issued date : 2022/1/28

FCC ID : RYK-WNFQ268AXB

Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE160)	15	6025	156.023	155.866	320	Pass
	47	6185	154.75	156.017	320	Pass
	79	6345	155.698	154.902	320	Pass
	111	6505	156.657	155.864	320	Pass
	143	6665	155.542	156.182	320	Pass
	175	6825	156.975	155.532	320	Pass
	207	6985	154.75	154.58	320	Pass

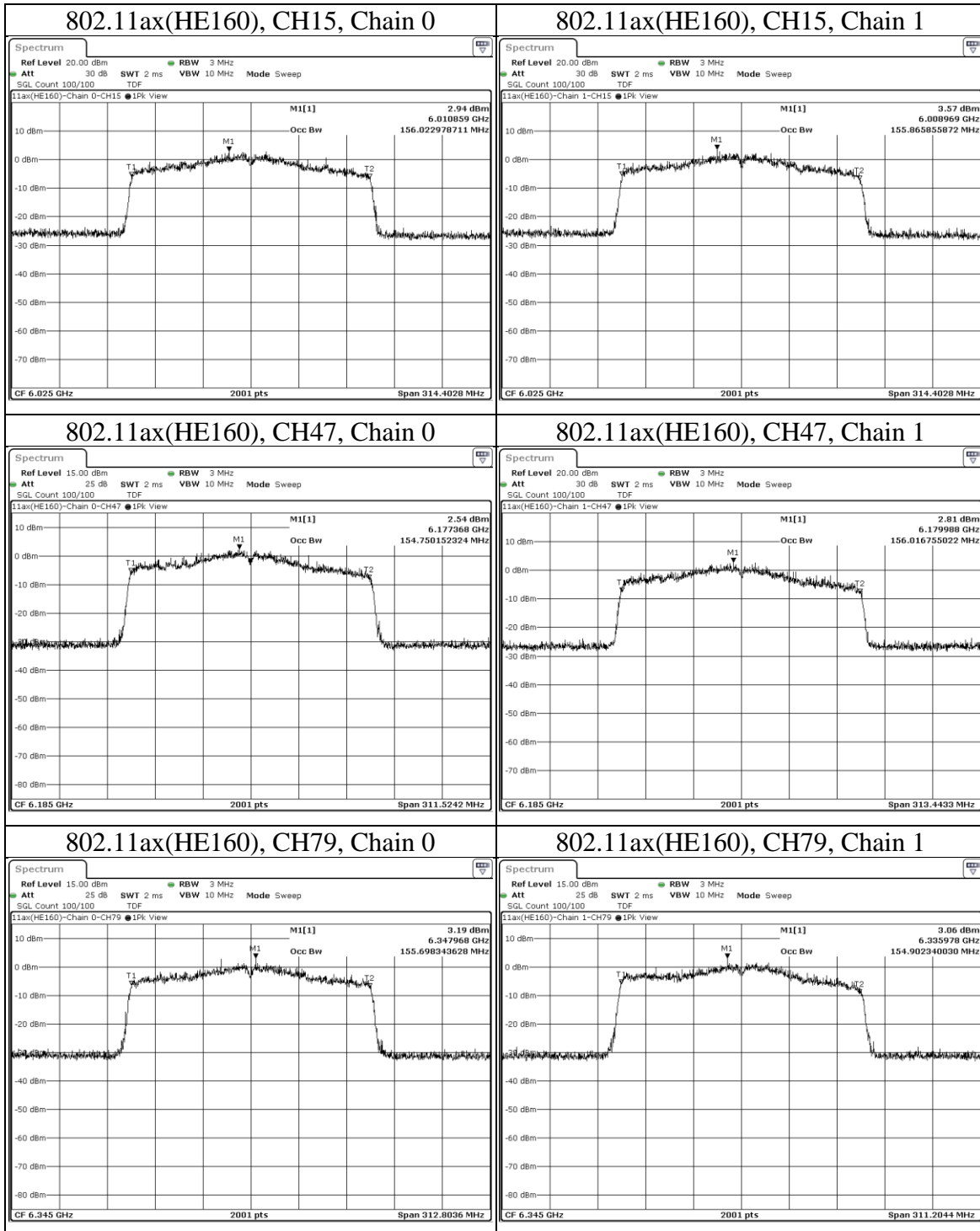
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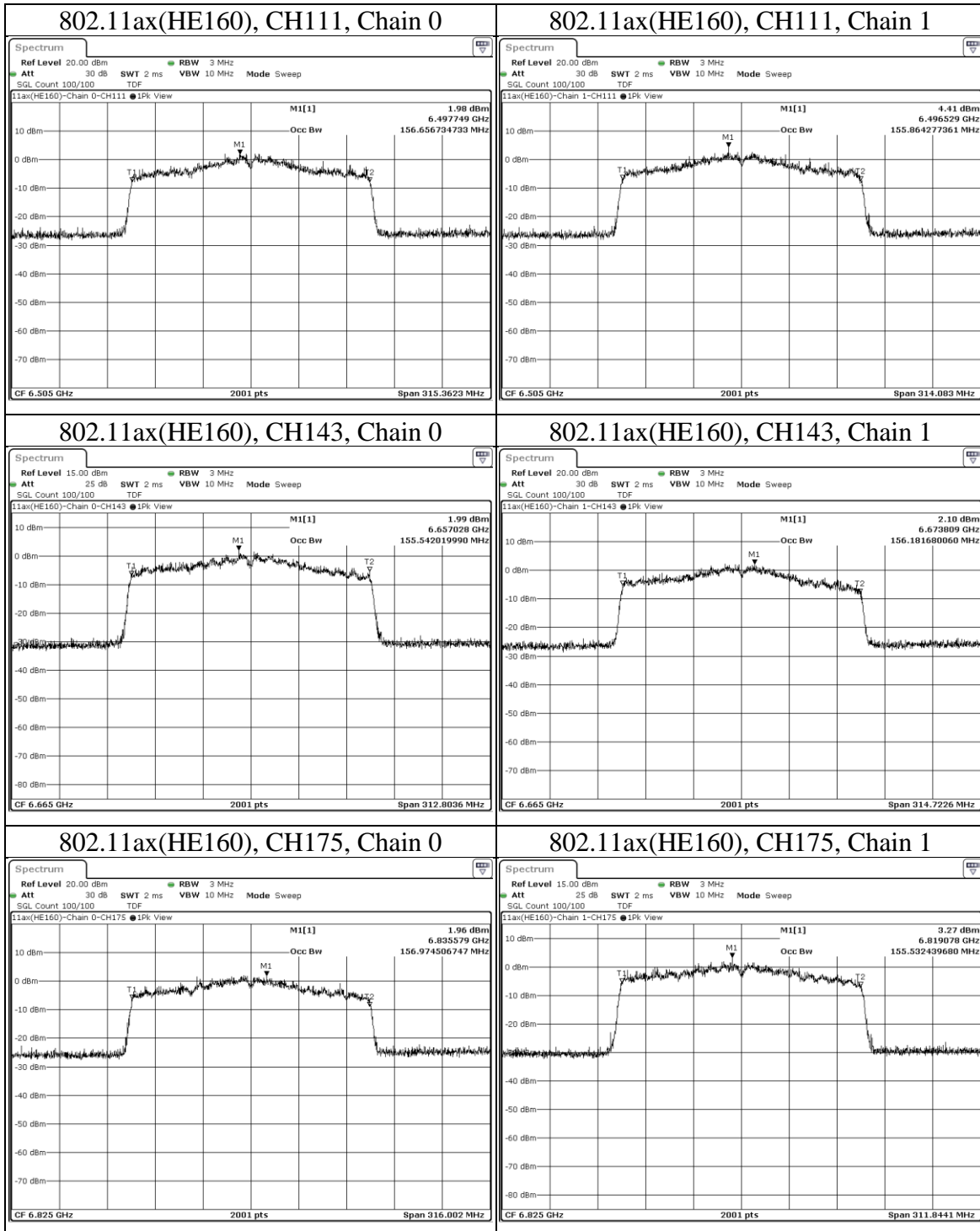
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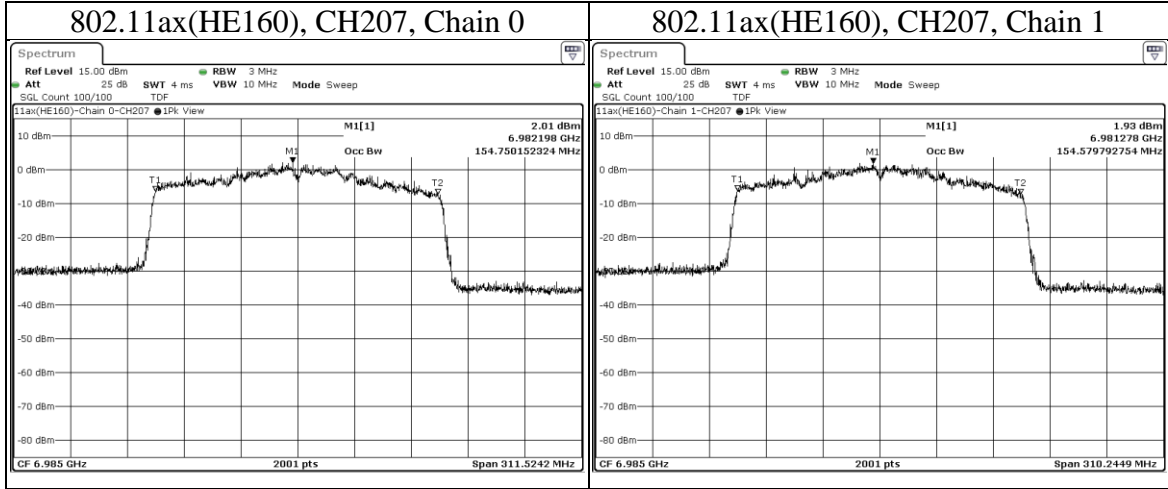


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9.3. Transmit Power Measurement

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

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 ≥ 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.

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Test Procedure

For Average Power Measurement

Test method PM

For 802.11a, 802.11ax (HE20), 802.11ax (HE40)

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.”

Test method SA-1

For 802.11ax (HE80), 802.11ax (HE160)

- a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set sweep trigger*.
- c. Set RBW = 1 MHz.
- d. Set VBW ≥ 3 MHz
- e. Number of points in sweep ≥ 2 Span / RBW.
- f. Sweep time \leq (number of points in sweep) * T
- g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- h. Detector = RMS.
- i. Trace mode = max hold.
- j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

* 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

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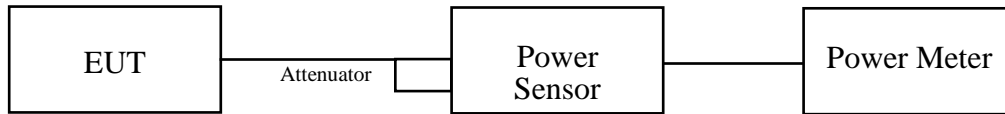
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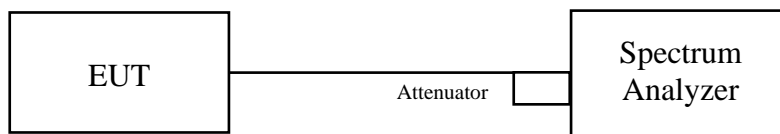


Test Setup

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.



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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Doc No: 17-EM-F0988 / 1.0



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	-0.72	-1.44	1.95	5.00	6.95	24	PASS
1	5955	1.33	-3.05	2.68	5.00	7.68	24	PASS
45	6175	-0.27	-1.68	2.09	5.00	7.09	24	PASS
93	6415	0.08	-2.36	2.04	5.00	7.04	24	PASS
97	6435	0.75	-2.03	2.59	5.00	7.59	24	PASS
105	6475	0.77	-2.17	2.55	5.00	7.55	24	PASS
113	6515	0.84	-1.96	2.67	5.00	7.67	24	PASS
117	6535	-0.21	-0.72	2.55	5.00	7.55	24	PASS
149	6695	-0.12	-0.77	2.58	5.00	7.58	24	PASS
181	6855	-0.54	-1.24	2.13	5.00	7.13	24	PASS
185	6875	-0.76	-1.17	2.05	5.00	7.05	24	PASS
209	6995	-0.34	-0.30	2.69	5.00	7.69	24	PASS
229	7095	-0.66	-0.76	2.30	5.00	7.30	24	PASS
233	7115	-0.34	-0.27	2.71	5.00	7.71	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	0.27	-0.33	2.99	5.00	7.99	24	PASS
1	5955	1.33	-2.46	2.85	5.00	7.85	24	PASS
45	6175	0.39	-0.82	2.84	5.00	7.84	24	PASS
93	6415	0.61	-1.81	2.58	5.00	7.58	24	PASS
97	6435	1.11	-1.72	2.93	5.00	7.93	24	PASS
105	6475	1.12	-1.91	2.87	5.00	7.87	24	PASS
113	6515	1.16	-1.84	2.92	5.00	7.92	24	PASS
117	6535	0.58	-0.04	3.29	5.00	8.29	24	PASS
149	6695	0.17	-0.05	3.07	5.00	8.07	24	PASS
181	6855	0.31	-0.57	2.90	5.00	7.90	24	PASS
185	6875	0.11	-0.36	2.89	5.00	7.89	24	PASS
209	6995	0.12	0.64	3.40	5.00	8.40	24	PASS
229	7095	0.54	0.42	3.49	5.00	8.49	24	PASS
233	7115	0.31	0.52	3.43	5.00	8.43	24	PASS

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802.11ax (HE40)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Max. Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
3	5965	3.04	1.85	5.50	5.00	10.50	24	PASS
43	6165	2.77	1.45	5.17	5.00	10.17	24	PASS
91	6405	3.84	1.67	5.90	5.00	10.90	24	PASS
99	6445	3.12	1.43	5.37	5.00	10.37	24	PASS
107	6485	3.44	1.54	5.60	5.00	10.60	24	PASS
115	6525	2.47	1.84	5.18	5.00	10.18	24	PASS
123	6565	2.39	2.10	5.26	5.00	10.26	24	PASS
155	6725	3.23	2.71	5.99	5.00	10.99	24	PASS
179	6845	3.54	1.86	5.79	5.00	10.79	24	PASS
187	6885	2.61	2.91	5.77	5.00	10.77	24	PASS
211	7005	2.17	2.48	5.34	5.00	10.34	24	PASS
227	7085	2.91	2.77	5.85	5.00	10.85	24	PASS

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802.11ax (HE80)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (dBm)	Max. Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass/Fail
		Chain 0	Chain 1					
7	5985	5.67	5.41	8.55	5.00	13.55	24	PASS
39	6145	4.81	5.00	7.92	5.00	12.92	24	PASS
87	6385	3.72	4.67	7.23	5.00	12.23	24	PASS
103	6465	4.50	4.54	7.53	5.00	12.53	24	PASS
119	6545	4.16	4.44	7.31	5.00	12.31	24	PASS
135	6625	4.06	4.70	7.40	5.00	12.40	24	PASS
151	6705	4.93	5.22	8.09	5.00	13.09	24	PASS
167	6785	5.46	5.33	8.41	5.00	13.41	24	PASS
183	6865	5.89	5.47	8.70	5.00	13.70	24	PASS
199	6945	6.14	5.83	9.00	5.00	14.00	24	PASS
215	7025	5.32	5.33	8.34	5.00	13.34	24	PASS

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