

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

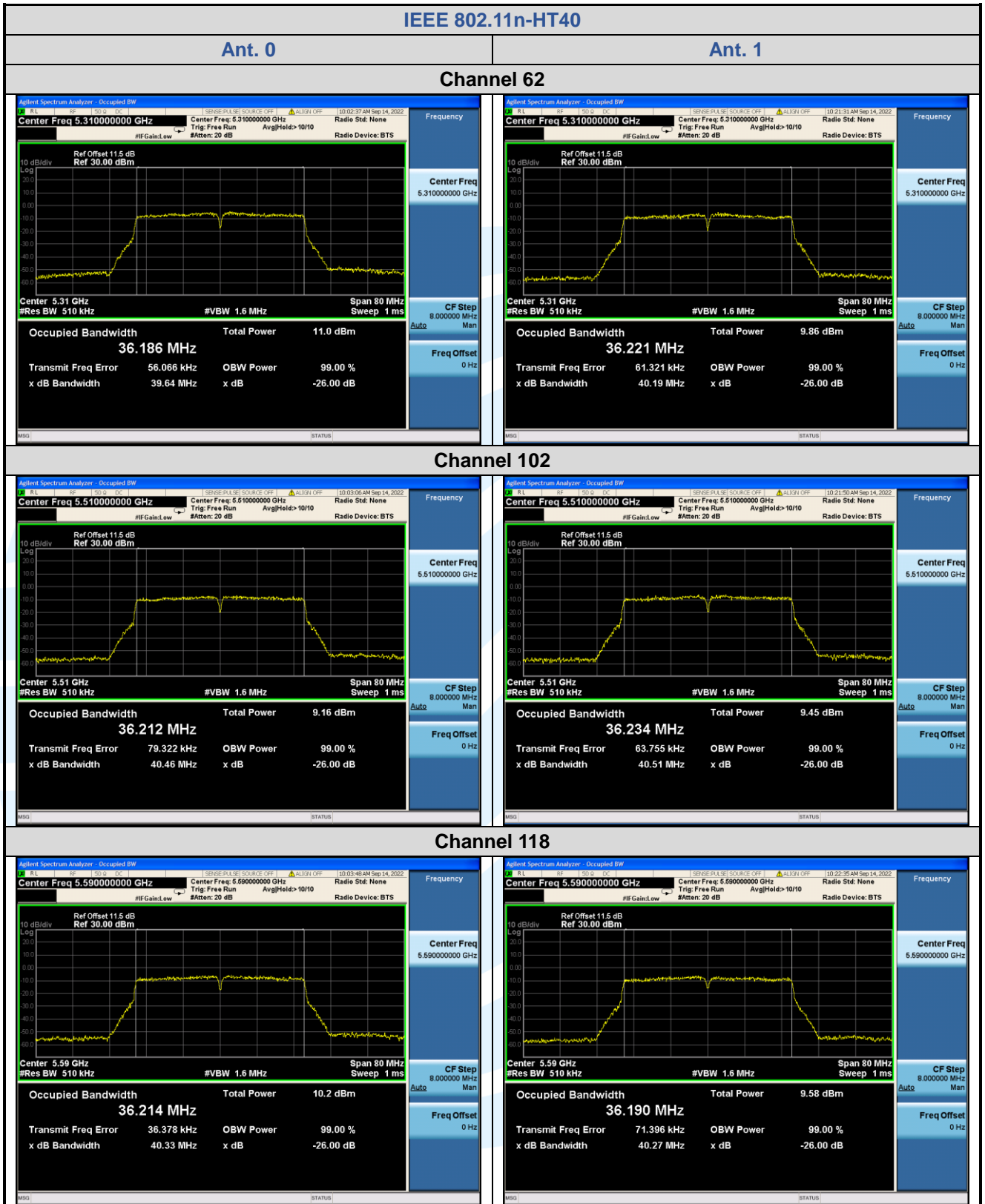
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.1



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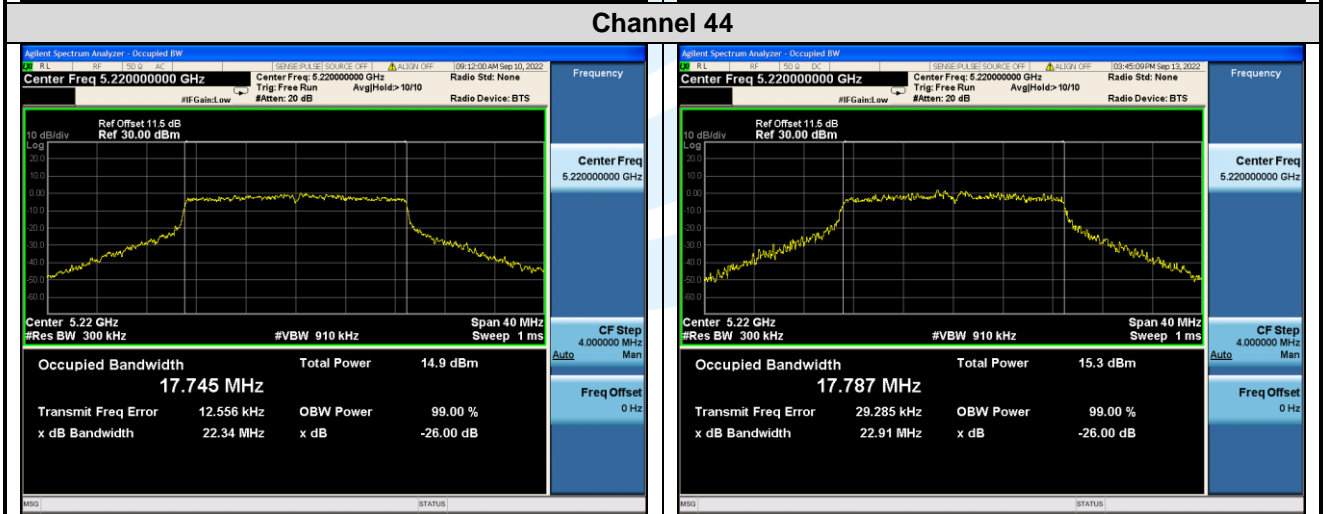
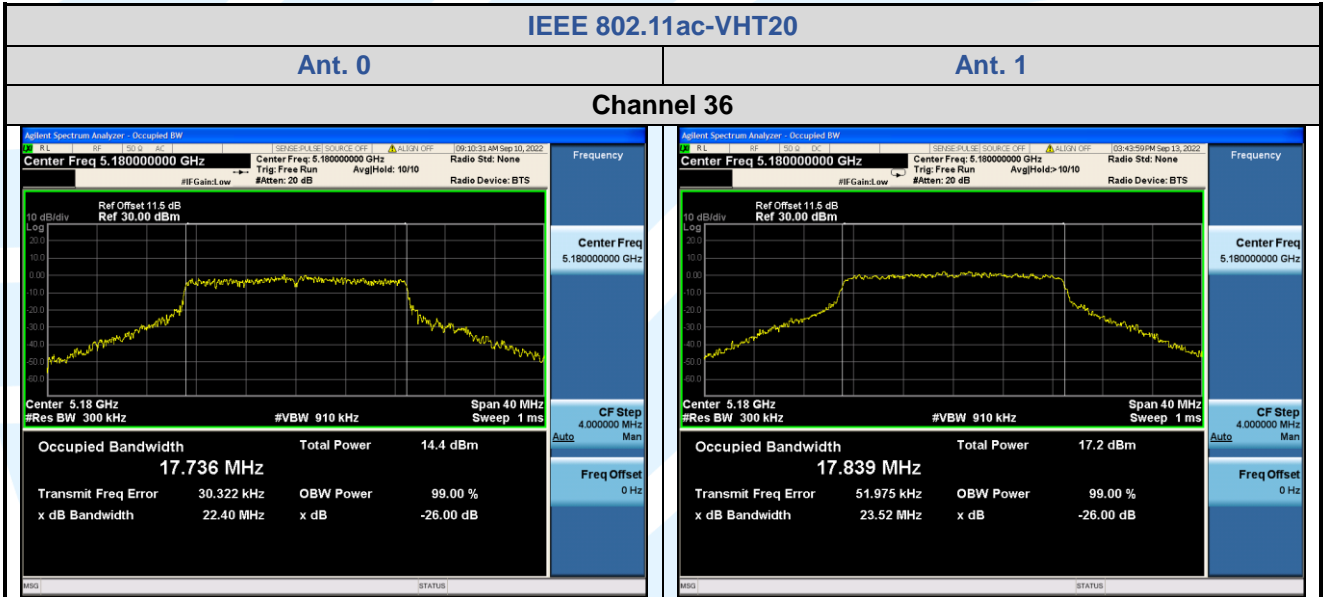
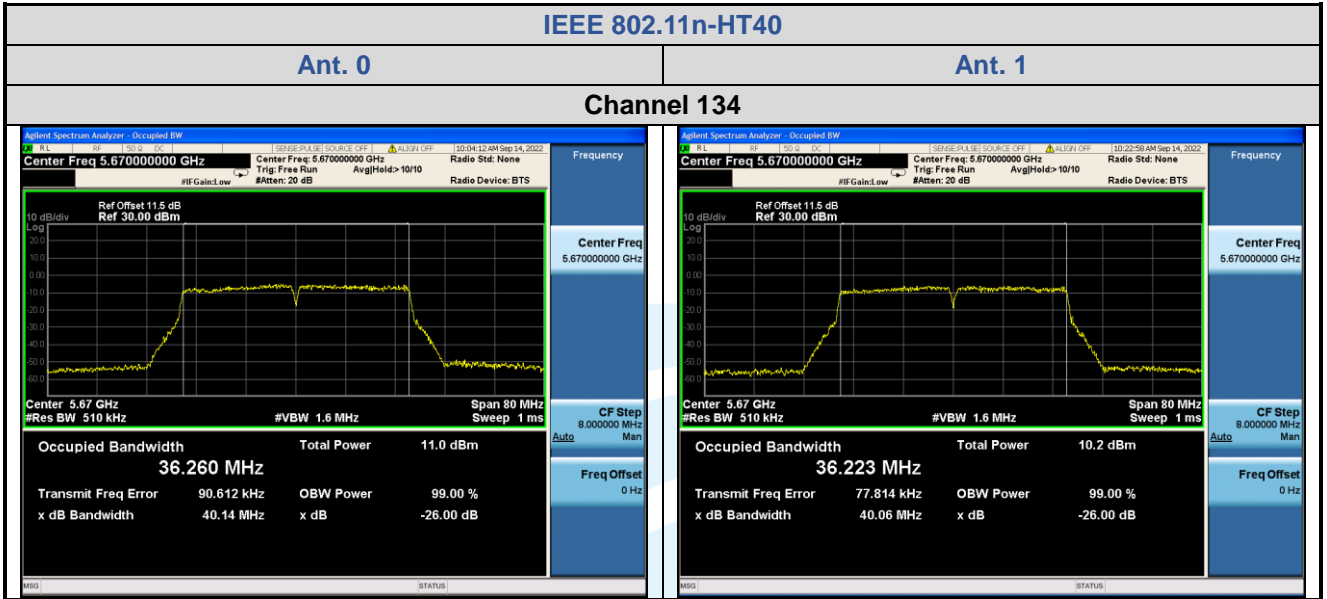
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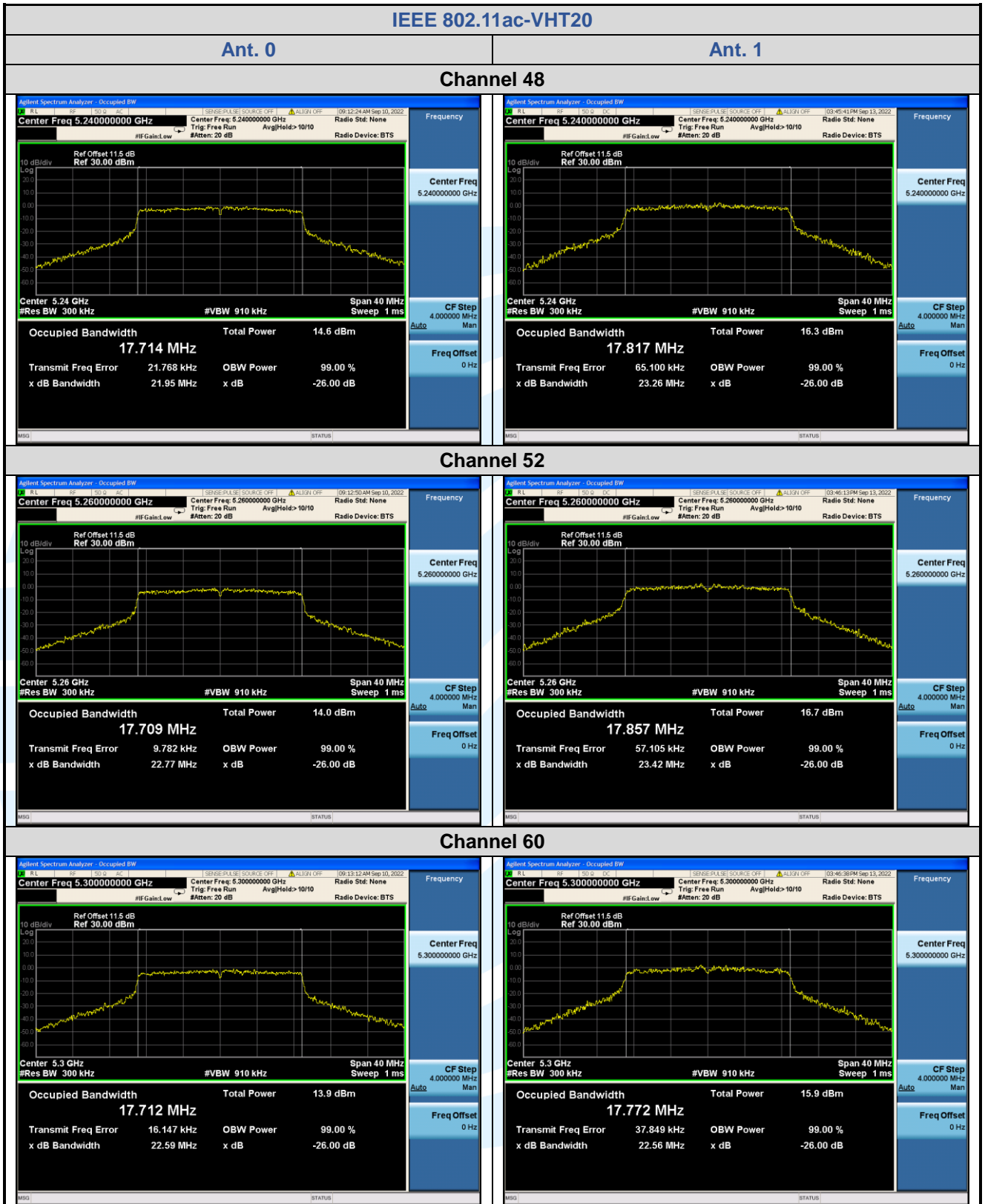
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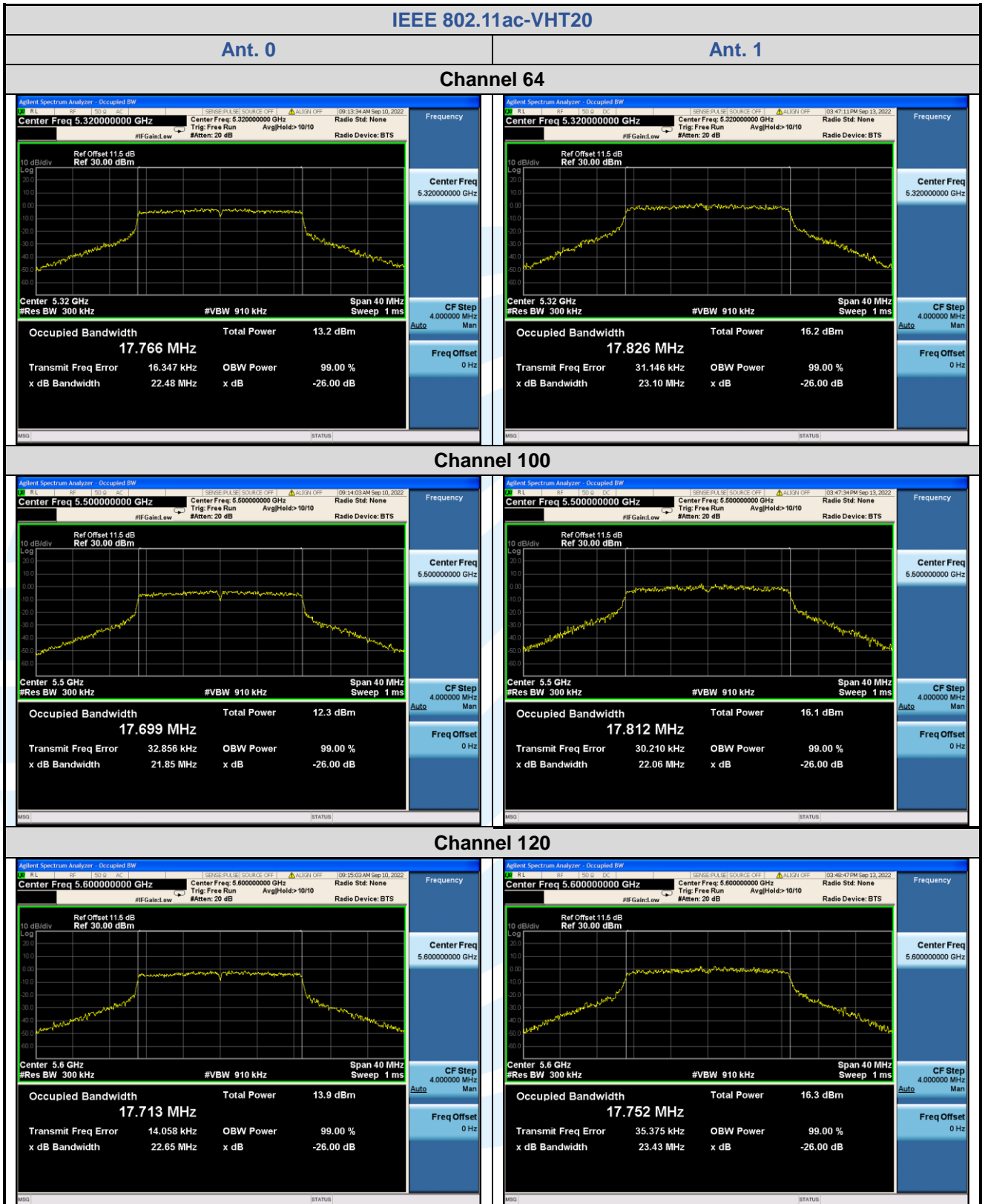
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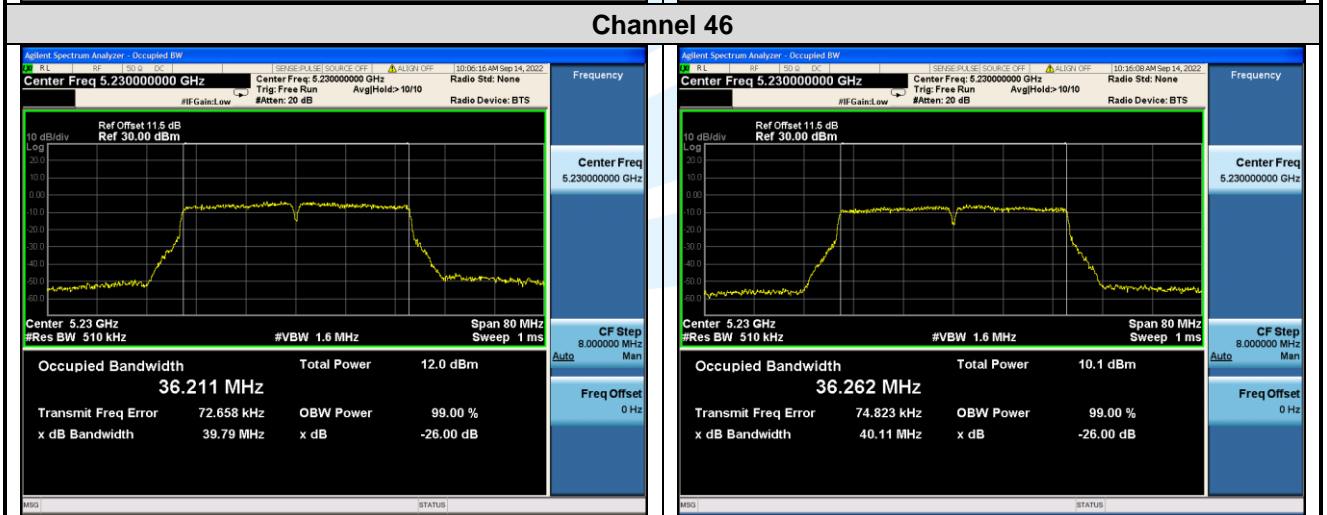
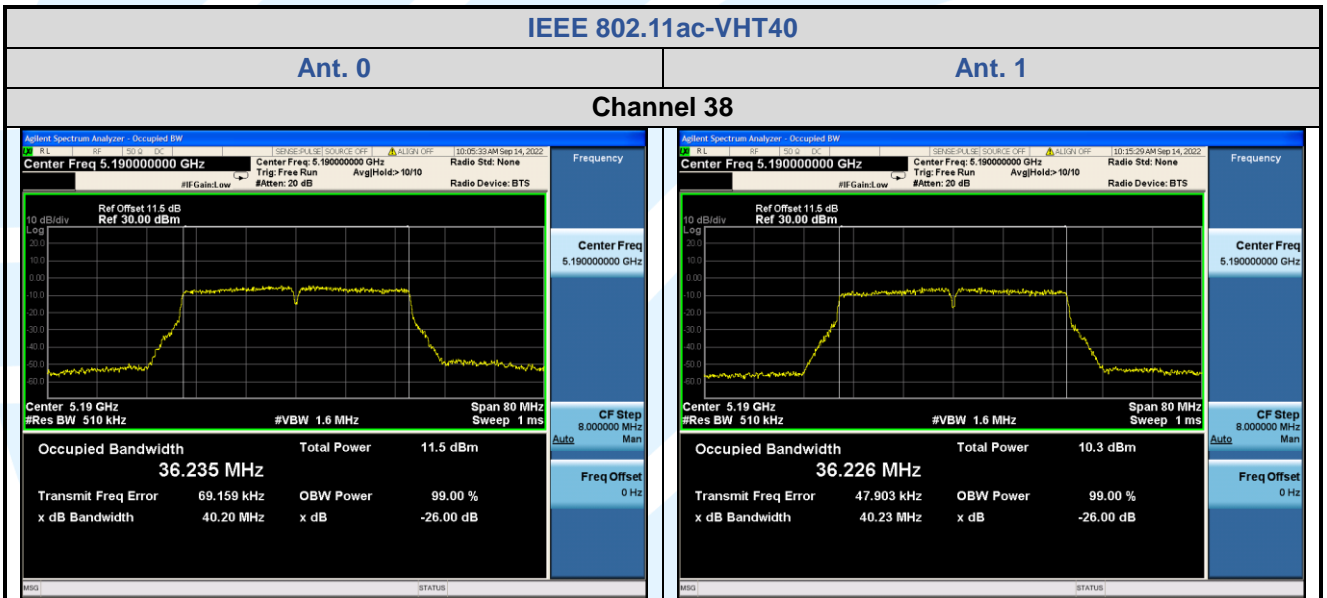
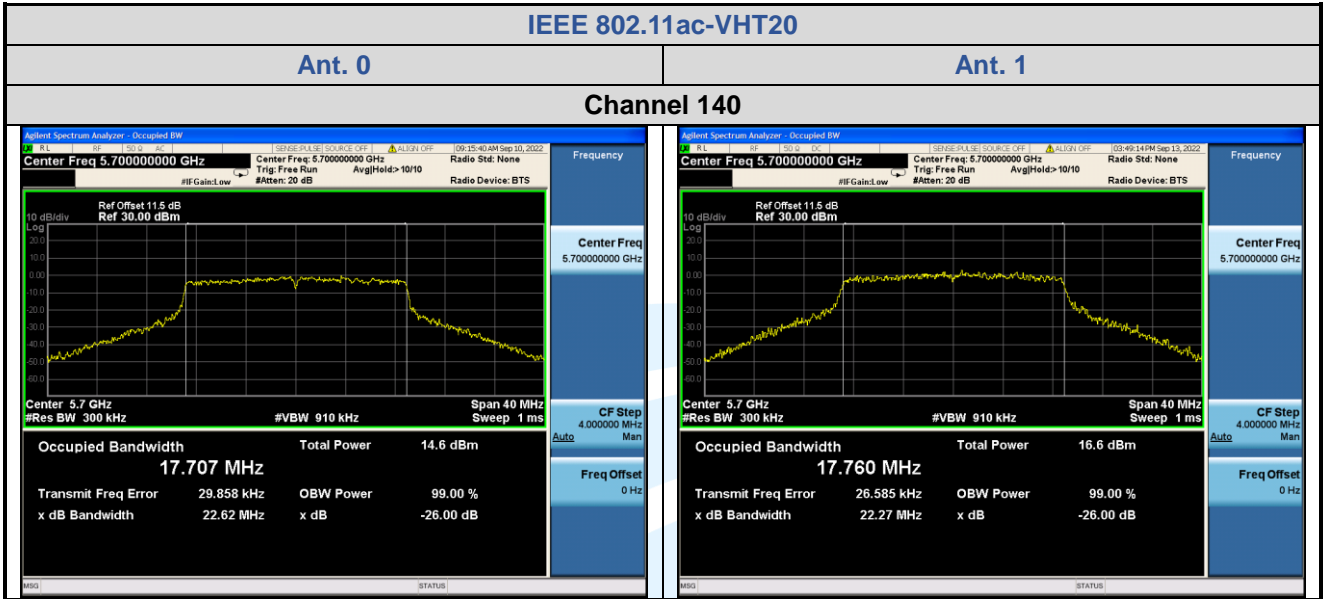
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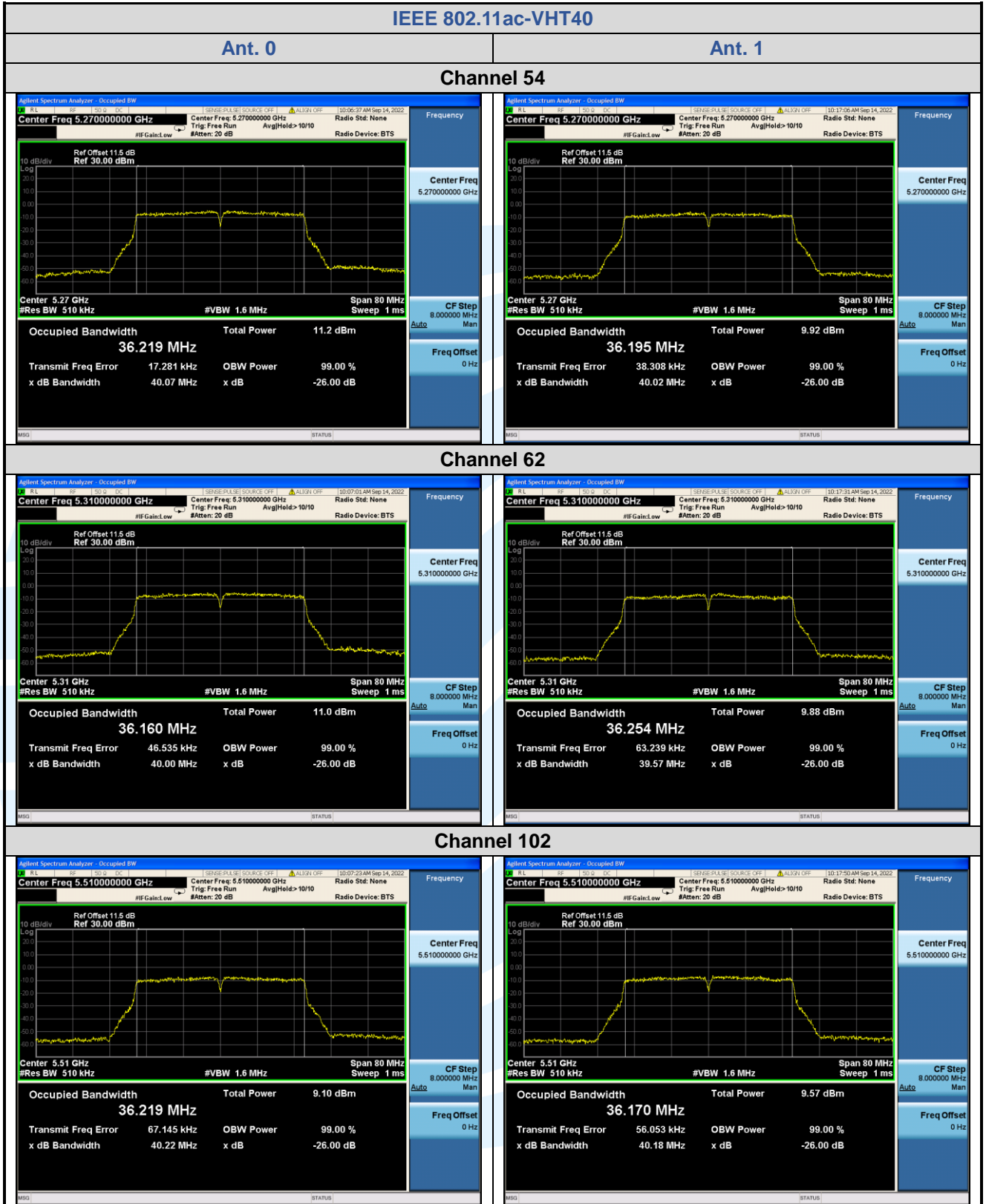
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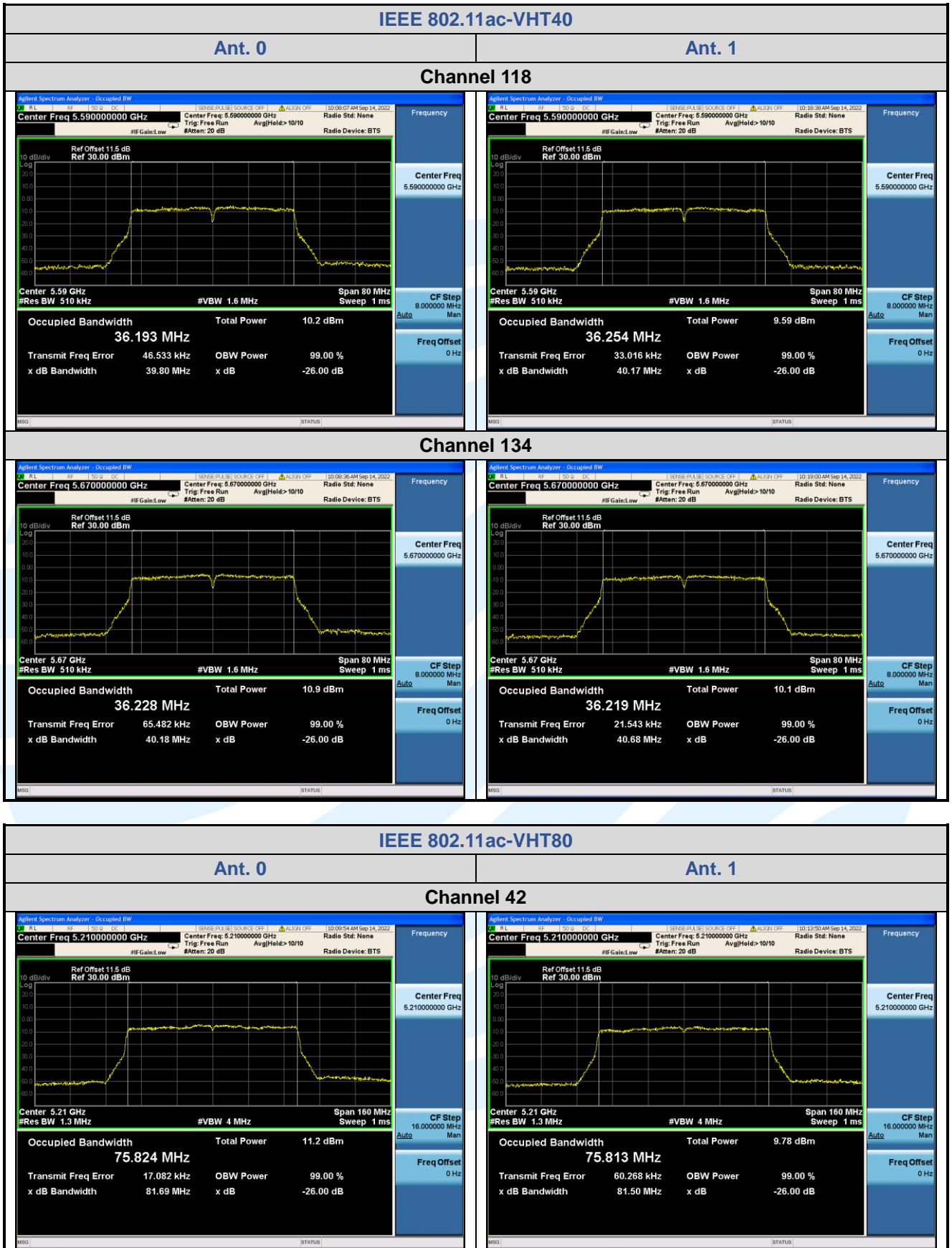
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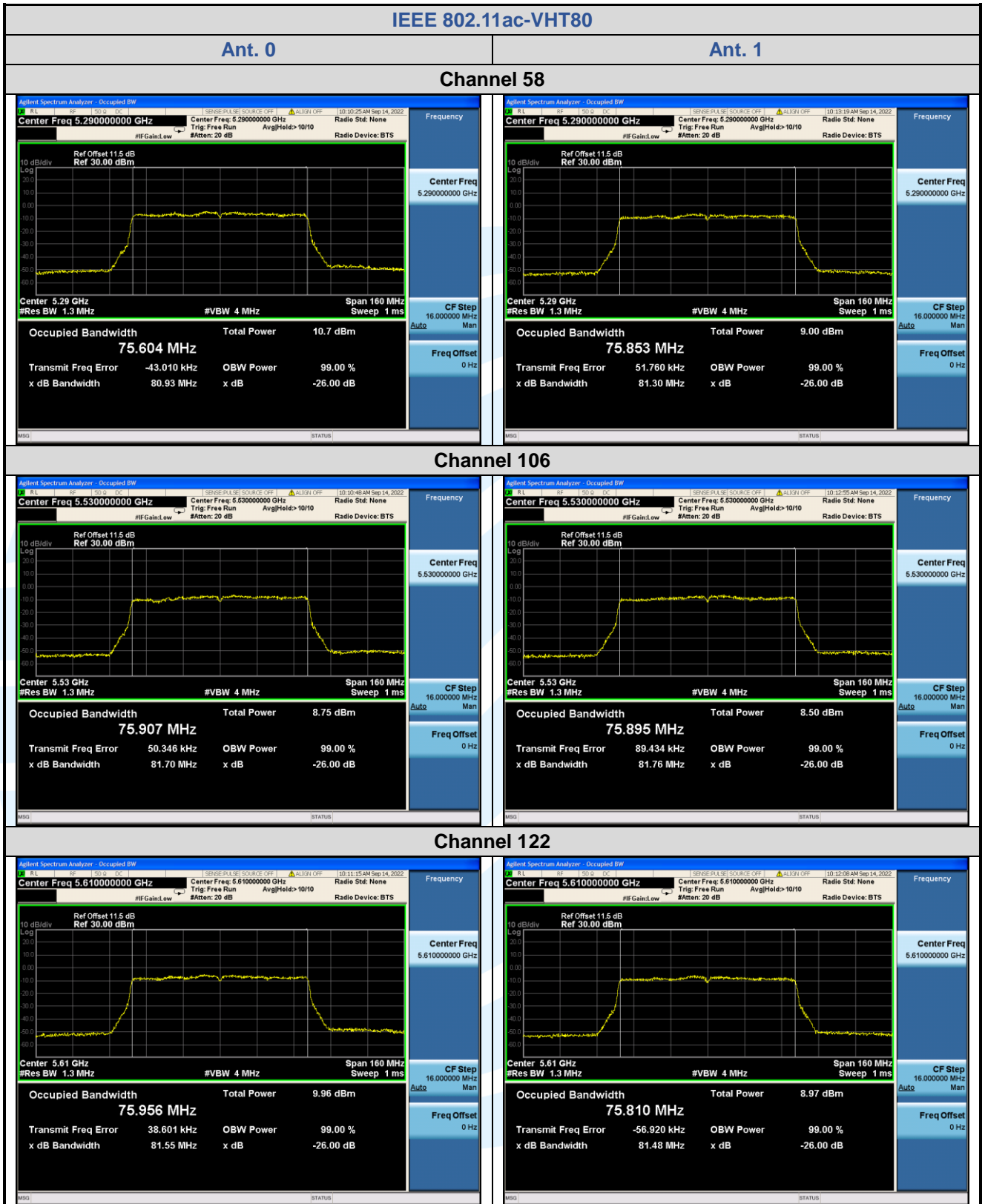
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### 5.46 DB BANDWIDTH

**Test Requirement:** FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

**Test Method:** KDB 789033 D02 v02r01Section C.2

**Limit:** Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

**Test Procedure:**

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 \* RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

**Test Setup:** Refer to section 4.5.3 for details.

**Instruments Used:** Refer to section 3 for details

**Test Mode:** Transmitter mode

**Test Results:** Pass

**Test Data:**

Mode	Channel/ Frequency (MHz)	6 dB Bandwidth (MHz)		6 dB Bandwidth Limit	Result
		Ant. 0	Ant. 1		
IEEE 802.11a	149 (5745)	16.45	15.15	> 500 kHz	Pass
	157 (5785)	16.44	16.48	> 500 kHz	Pass
	165 (5825)	16.39	13.61	> 500 kHz	Pass
IEEE 802.11n-HT20	149 (5745)	17.74	15.14	> 500 kHz	Pass
	157 (5785)	17.73	16.85	> 500 kHz	Pass
	165 (5825)	17.73	17.35	> 500 kHz	Pass
IEEE 802.11n-HT40	151 (5755)	36.45	36.03	> 500 kHz	Pass
	159 (5795)	36.47	35.89	> 500 kHz	Pass
IEEE 802.11ac-VHT20	149 (5745)	17.73	16.82	> 500 kHz	Pass
	157 (5785)	17.73	15.06	> 500 kHz	Pass
	165 (5825)	17.72	16.81	> 500 kHz	Pass
IEEE 802.11ac-VHT40	151 (5755)	36.49	35.24	> 500 kHz	Pass
	159 (5795)	36.45	34.16	> 500 kHz	Pass
IEEE 802.11ac-VHT80	155 (5775)	76.50	75.42	> 500 kHz	Pass