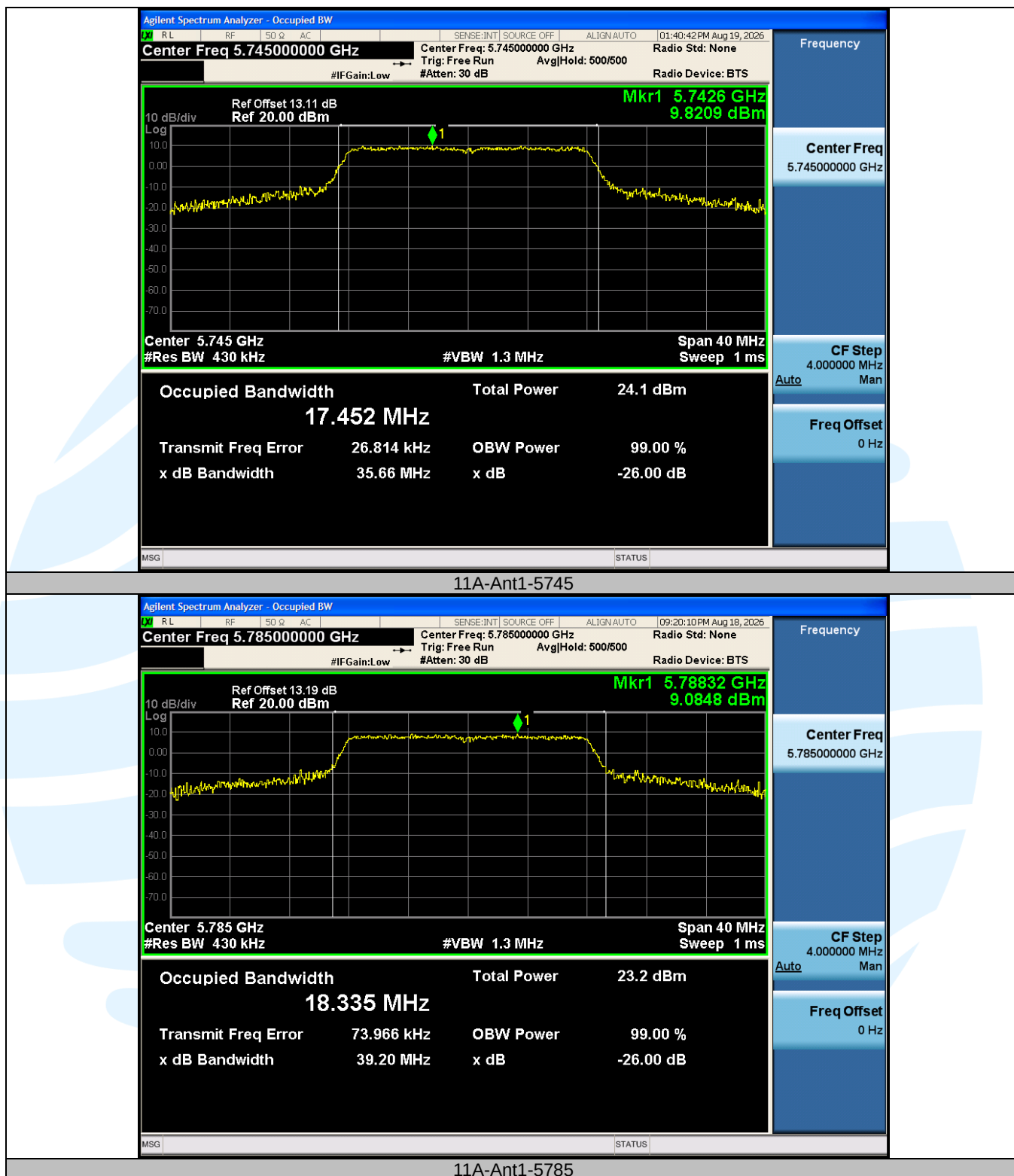


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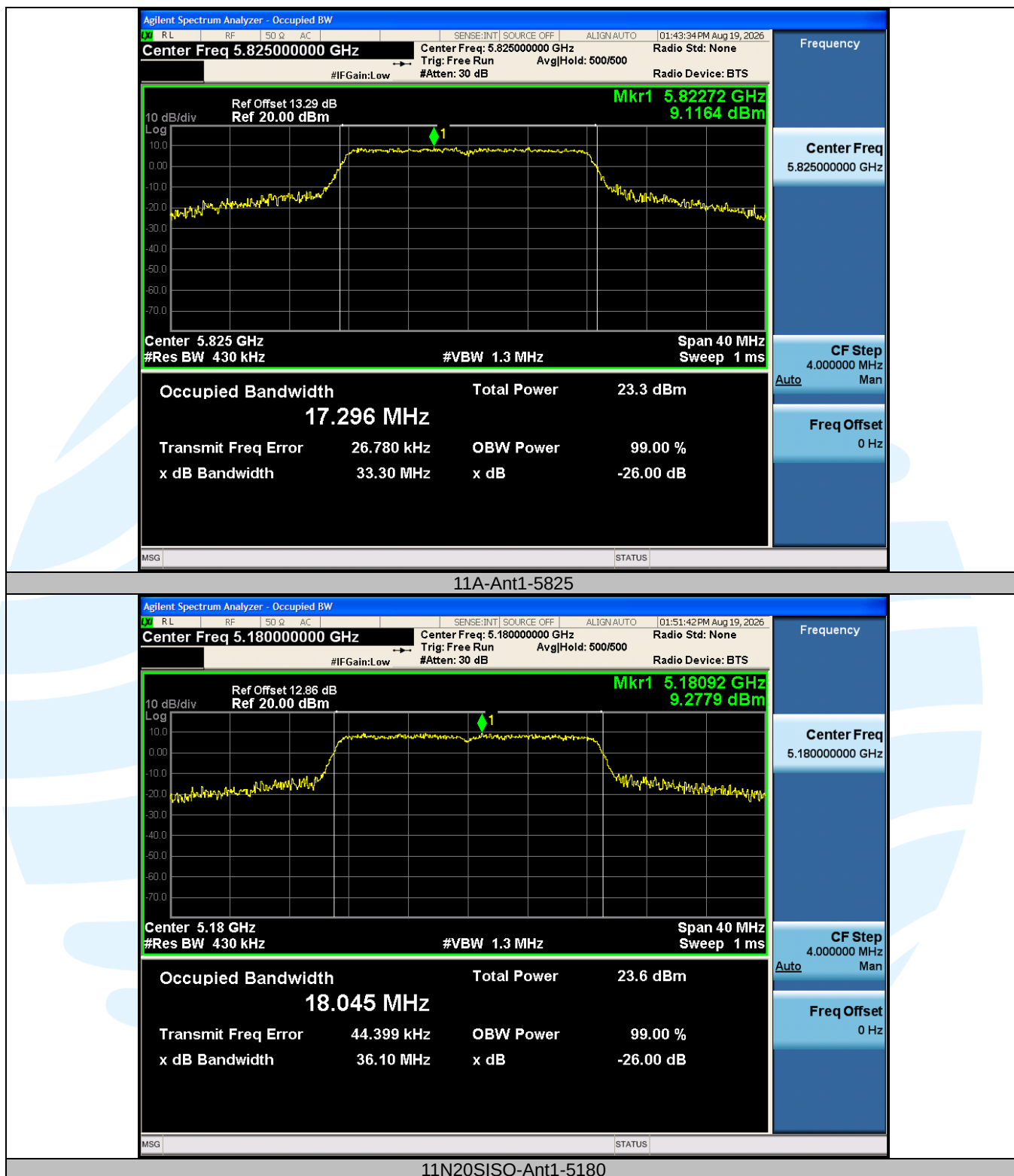
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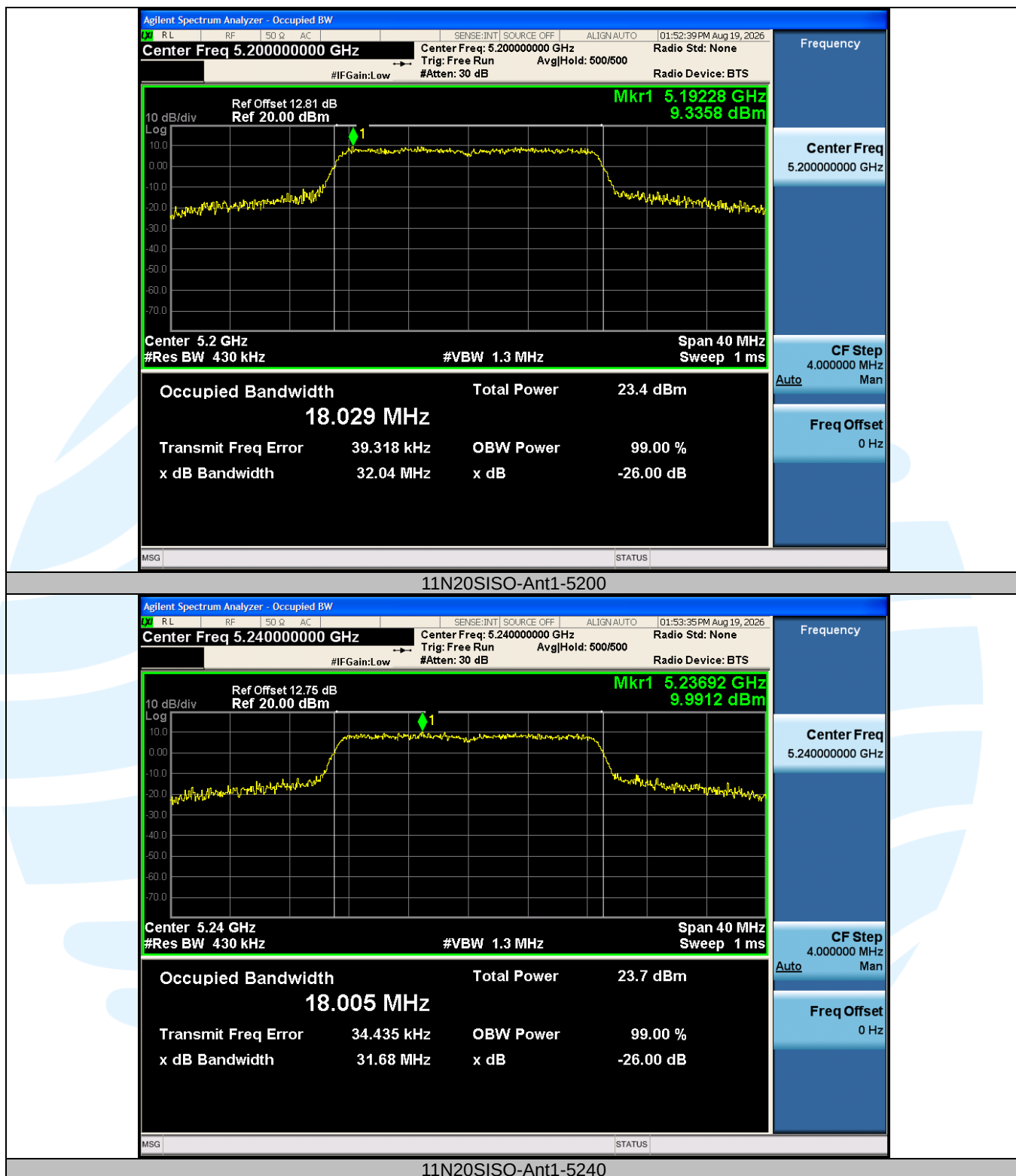
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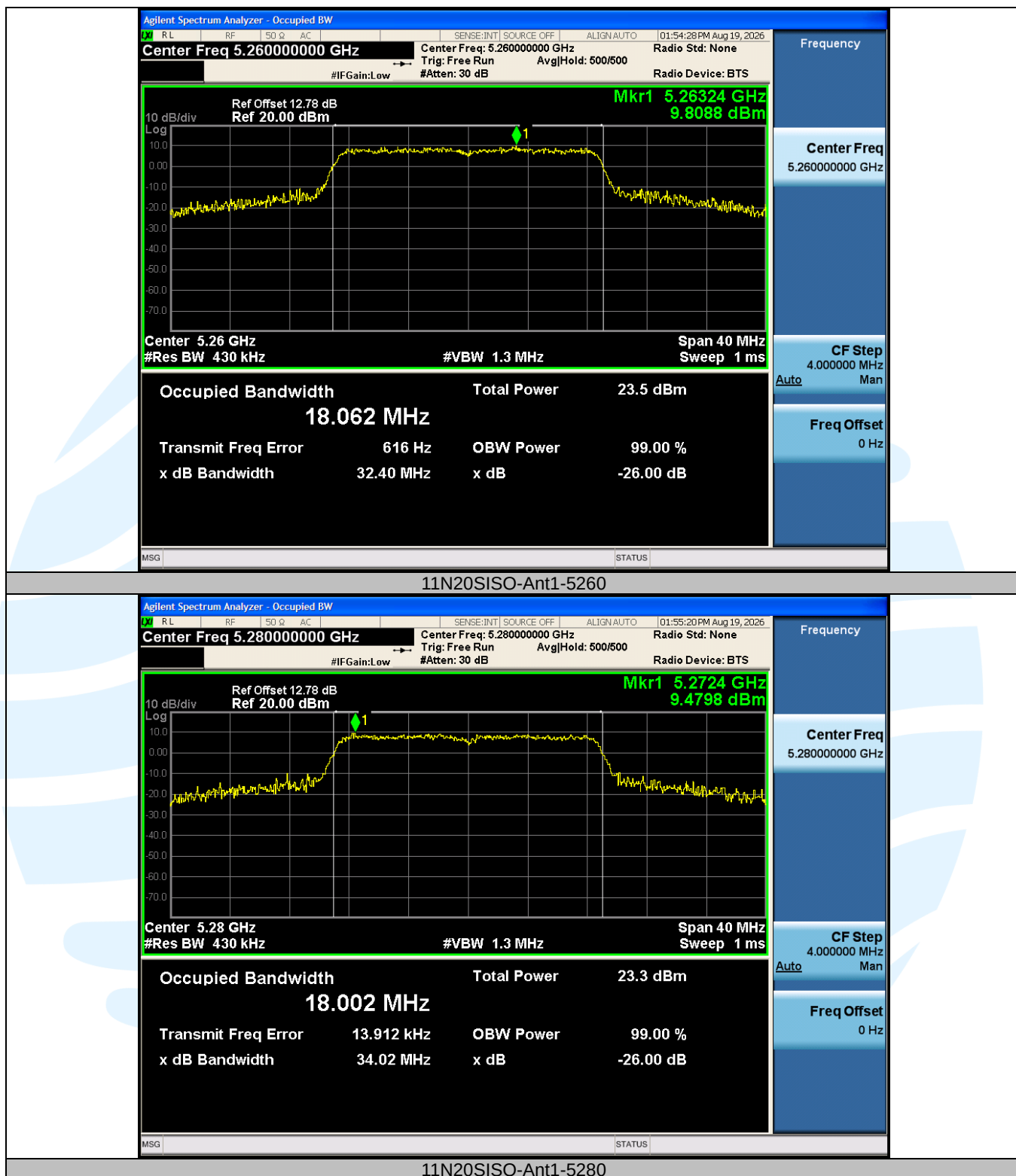
E-mail: info@uttlab.com

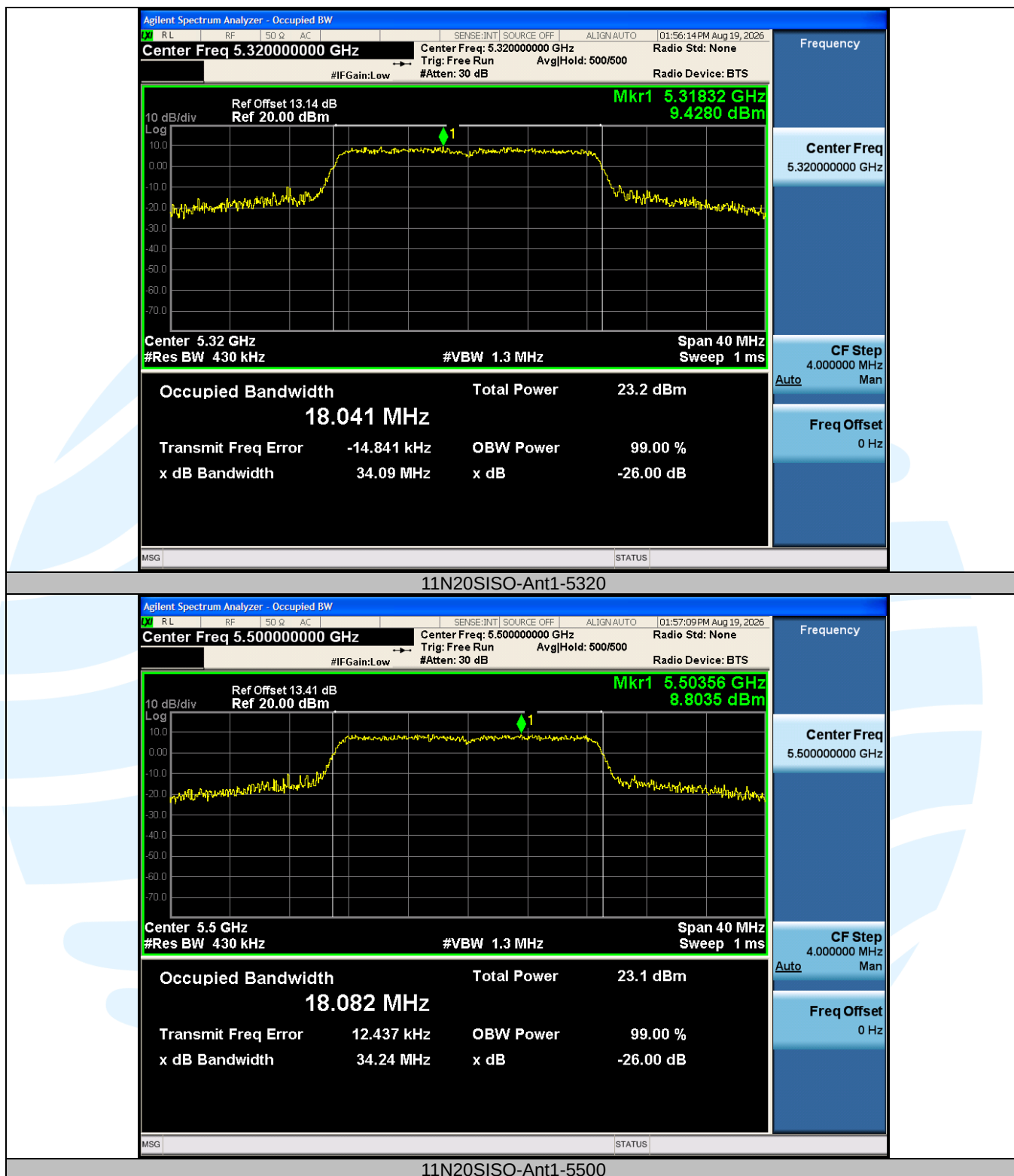
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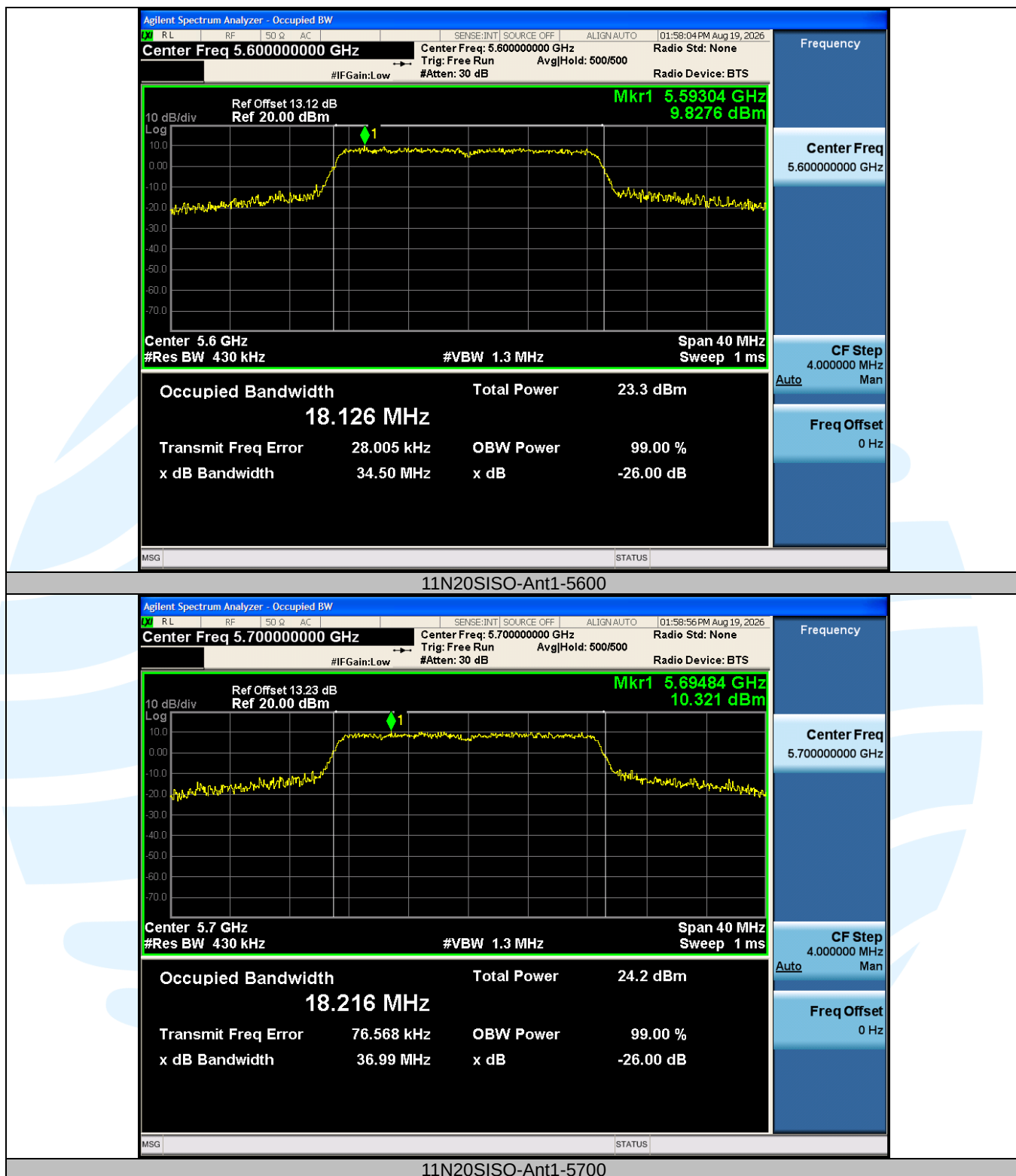
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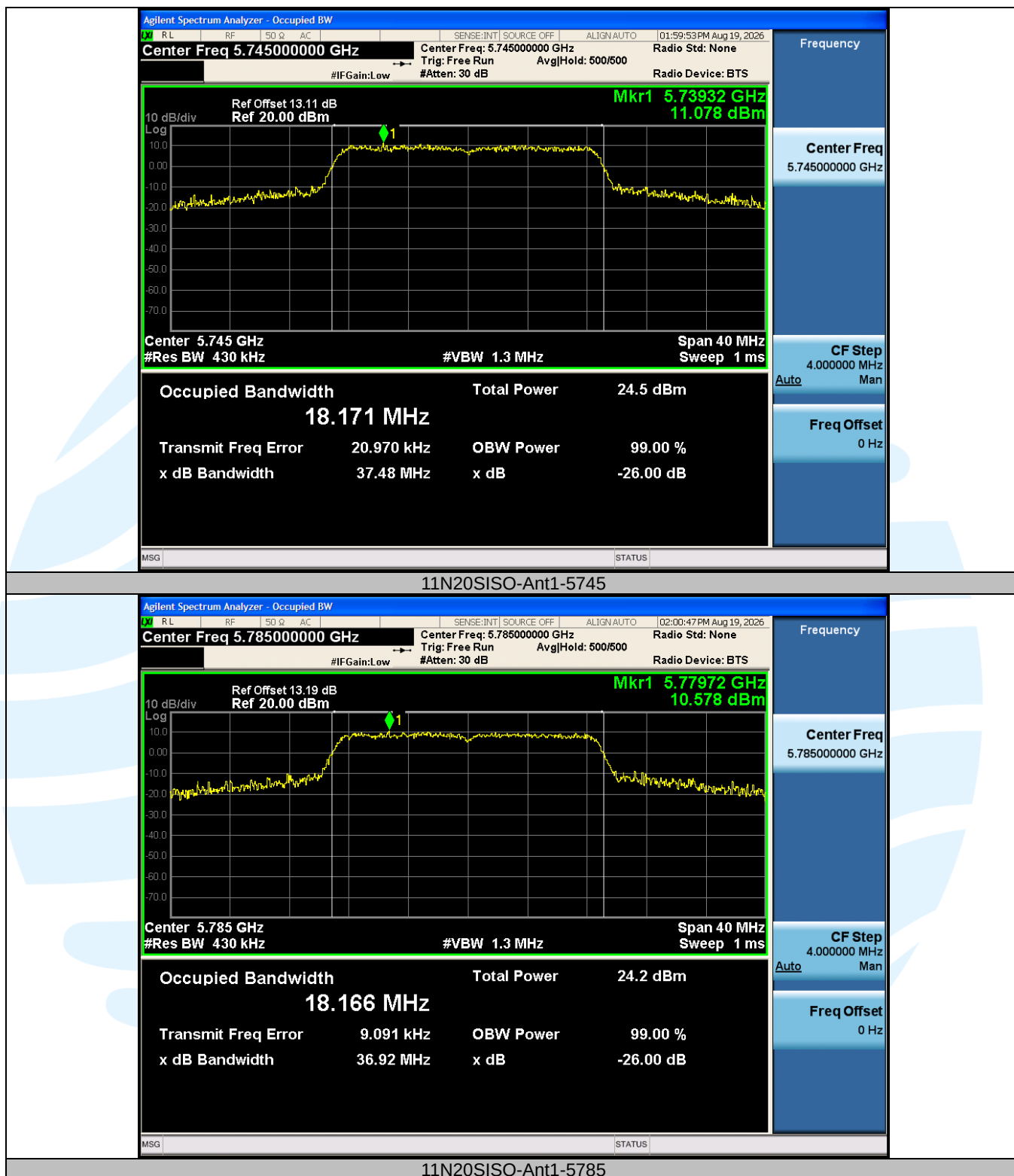
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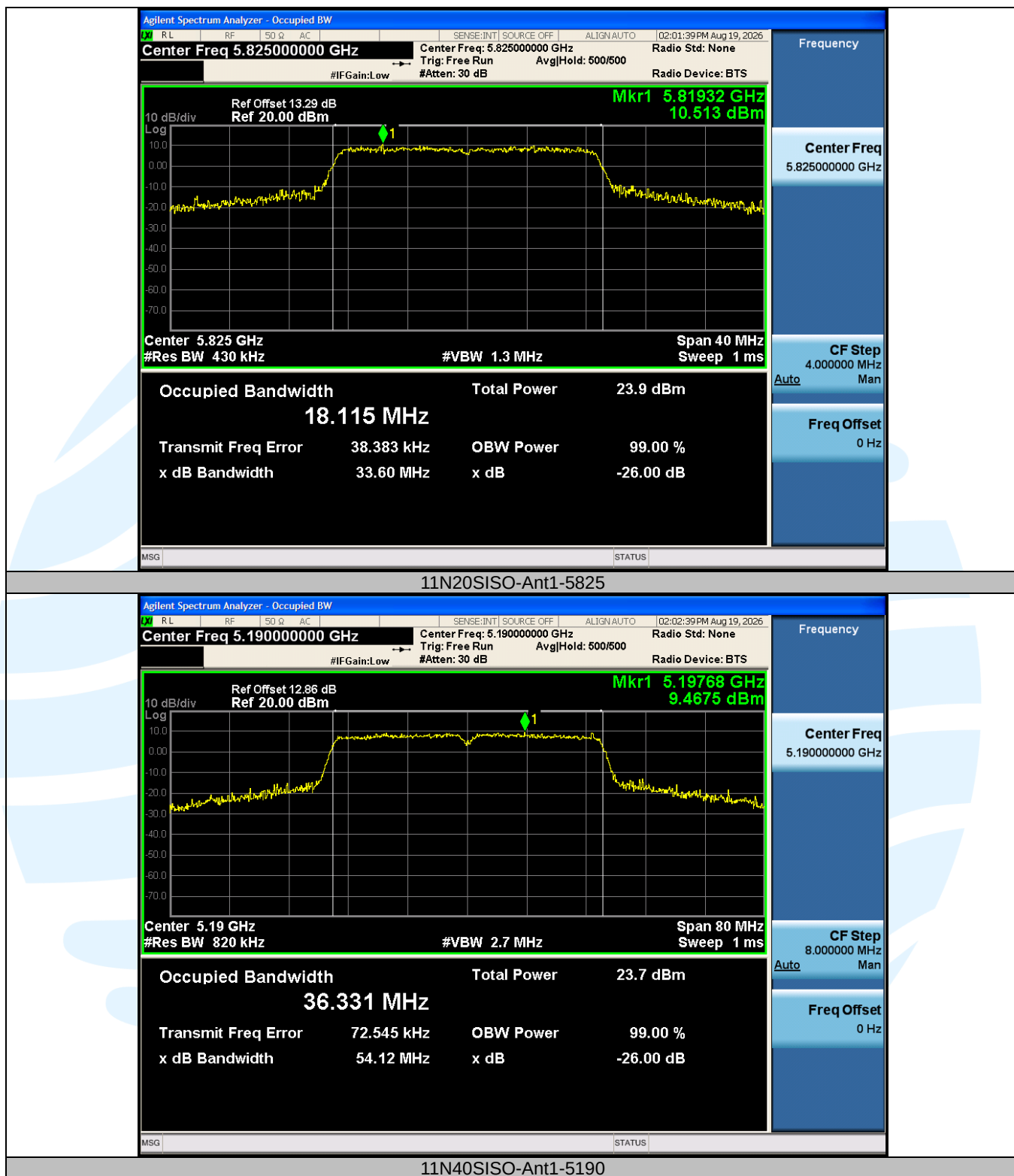
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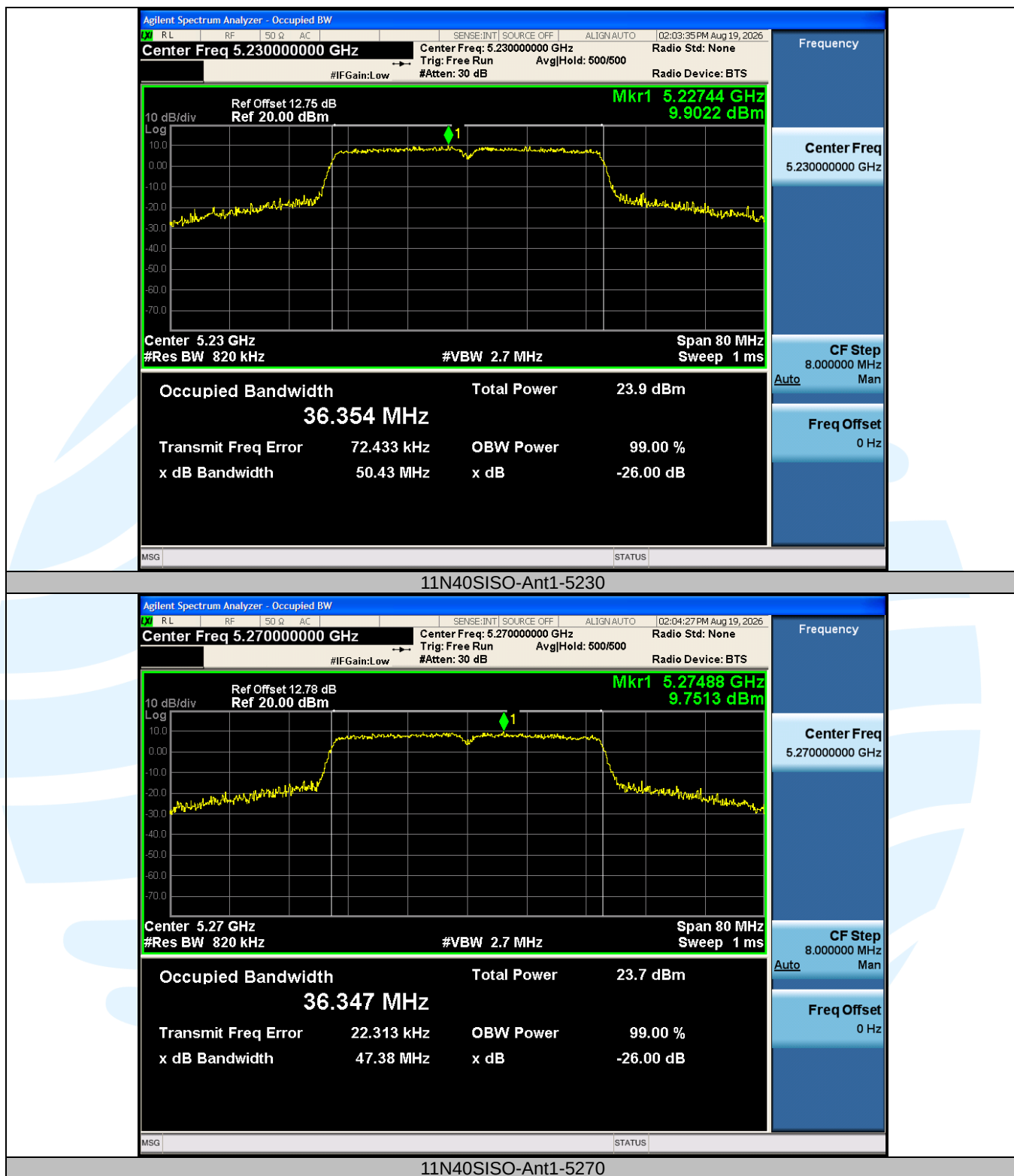
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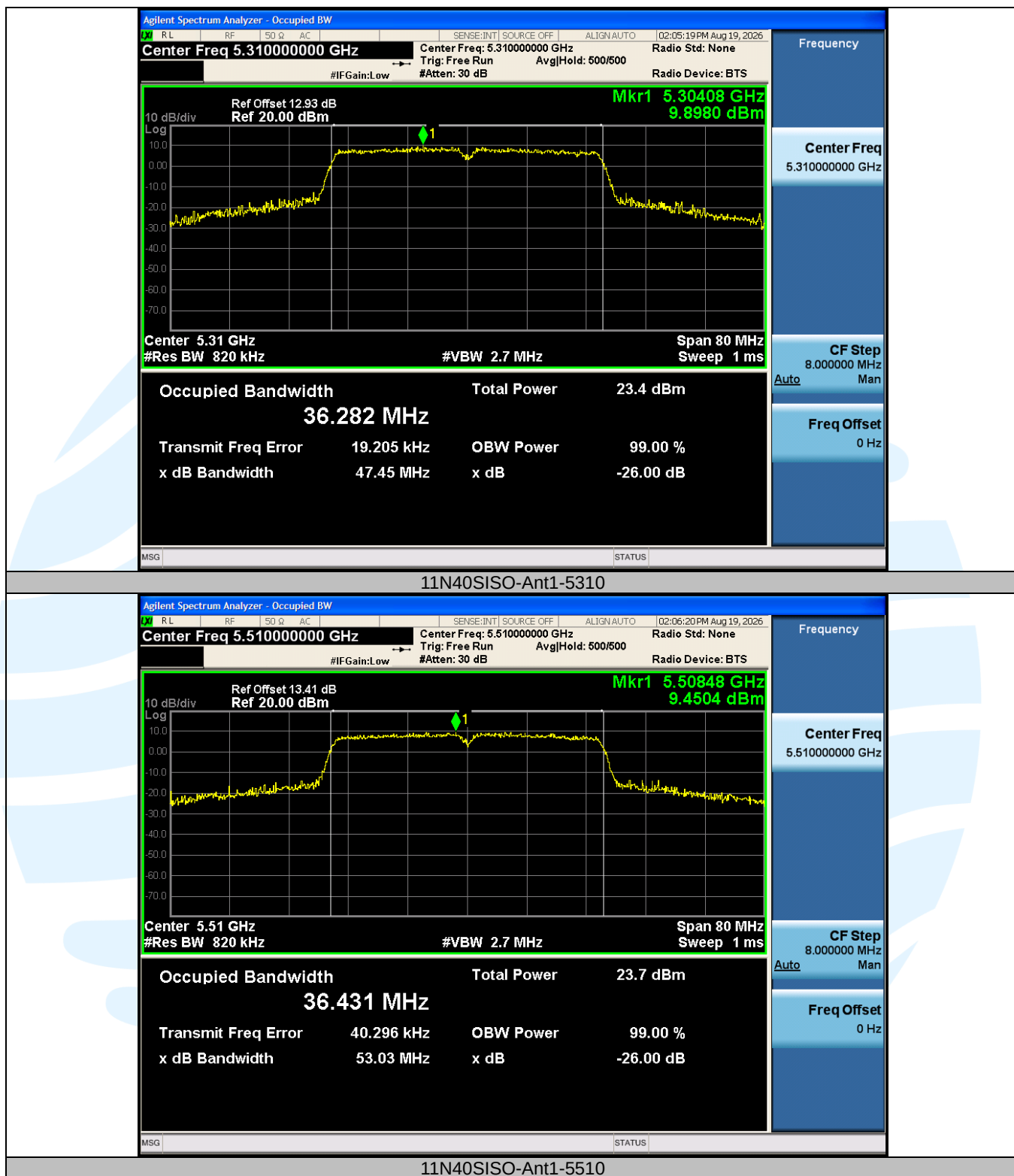
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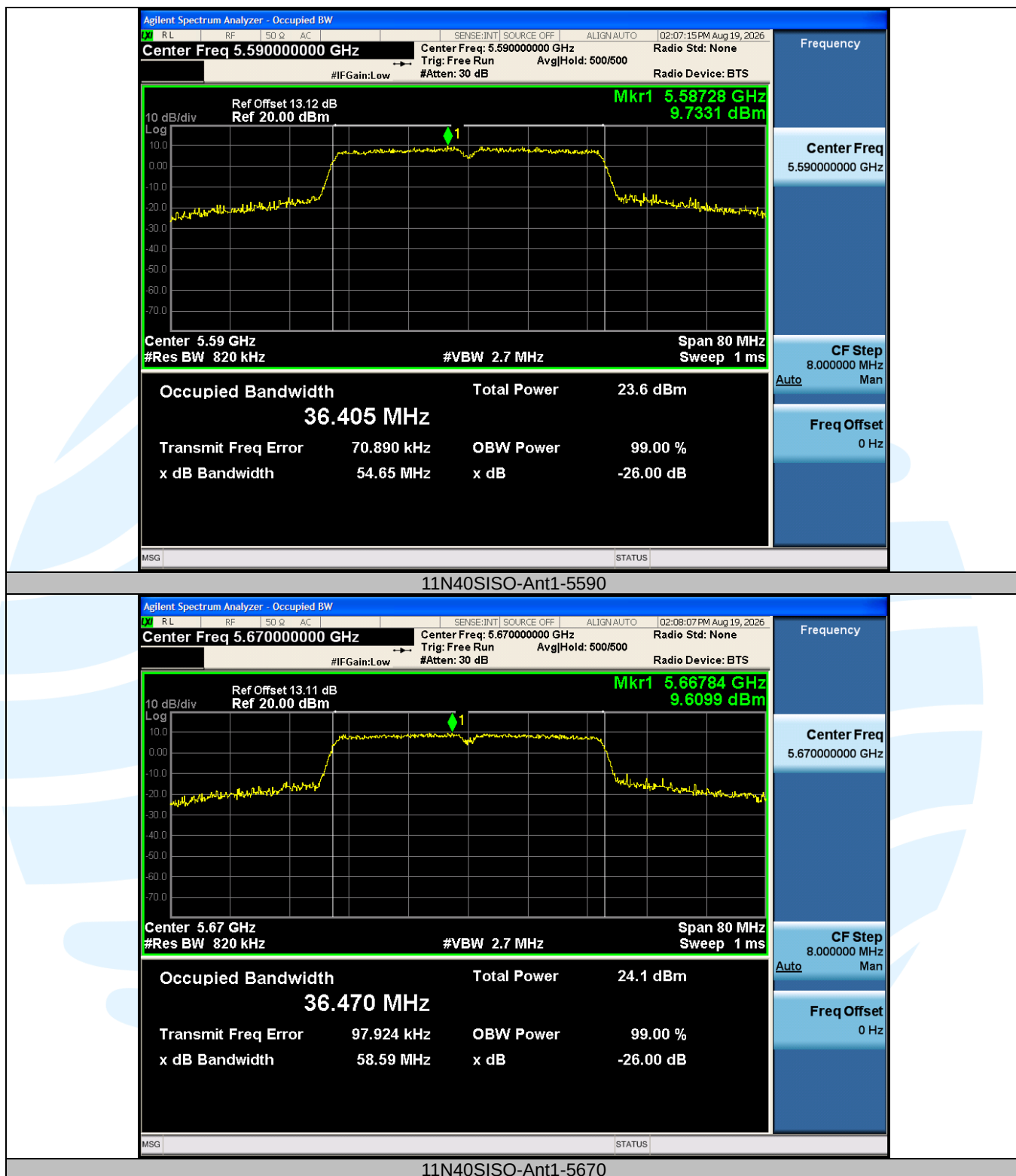
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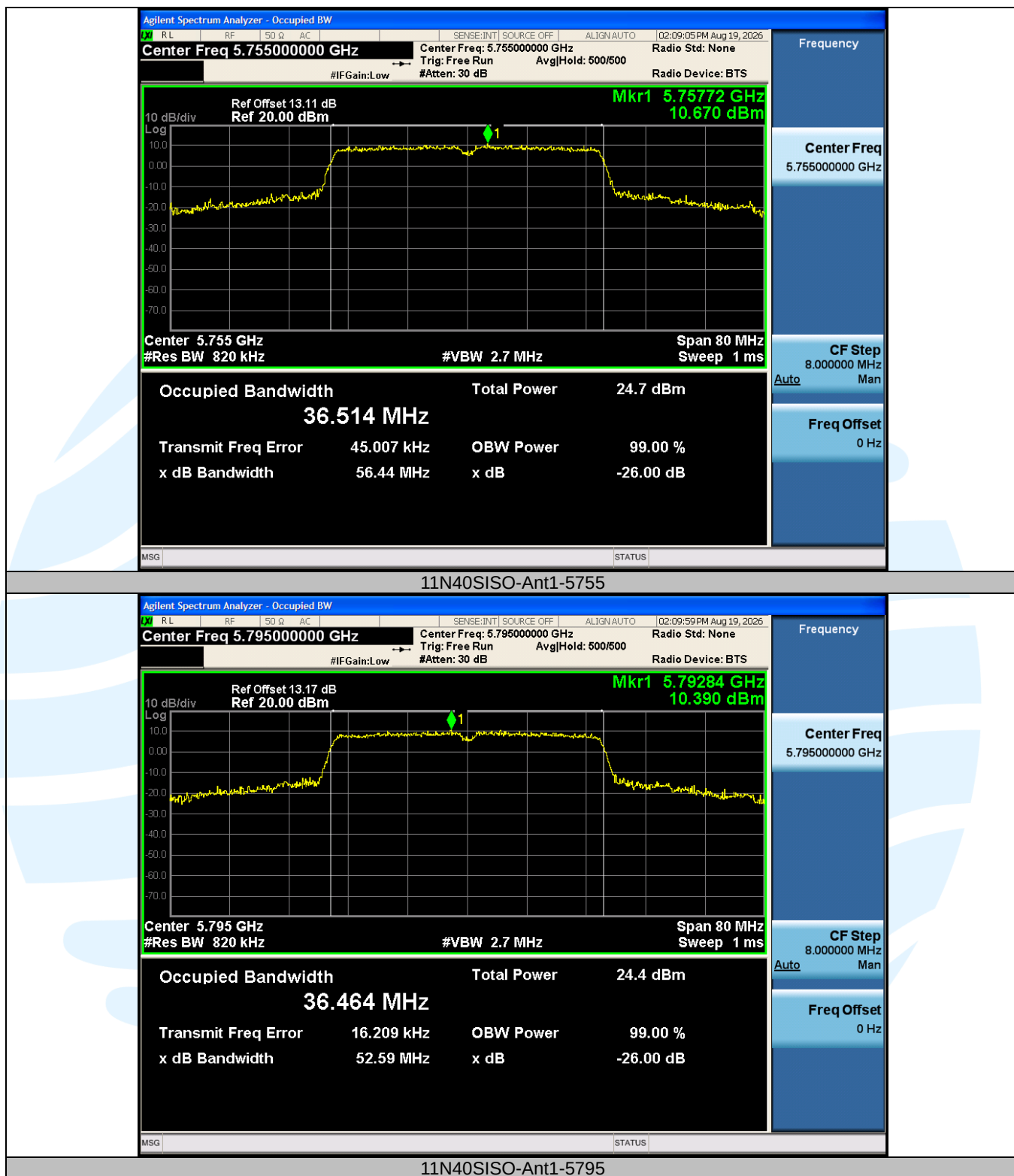
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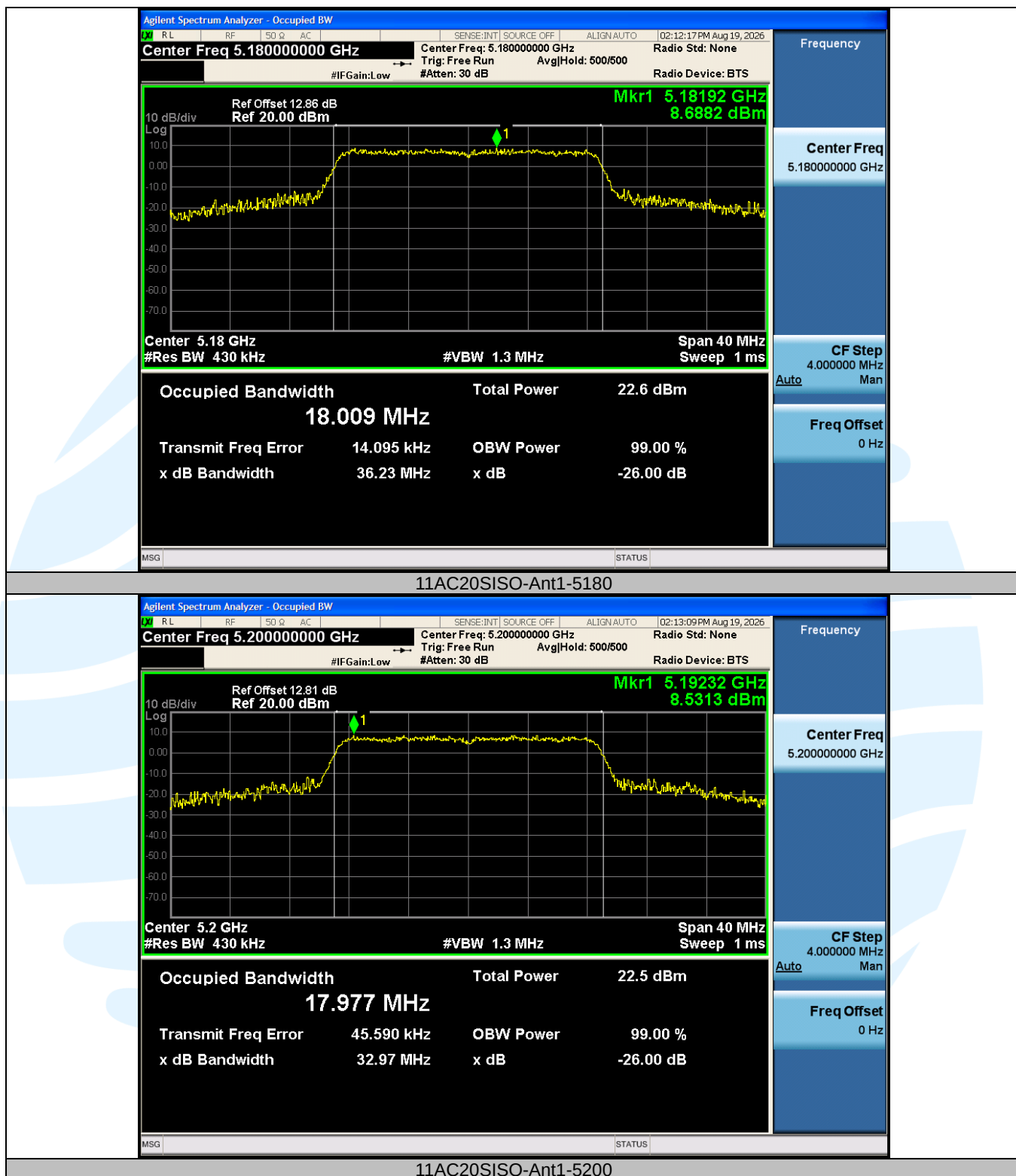
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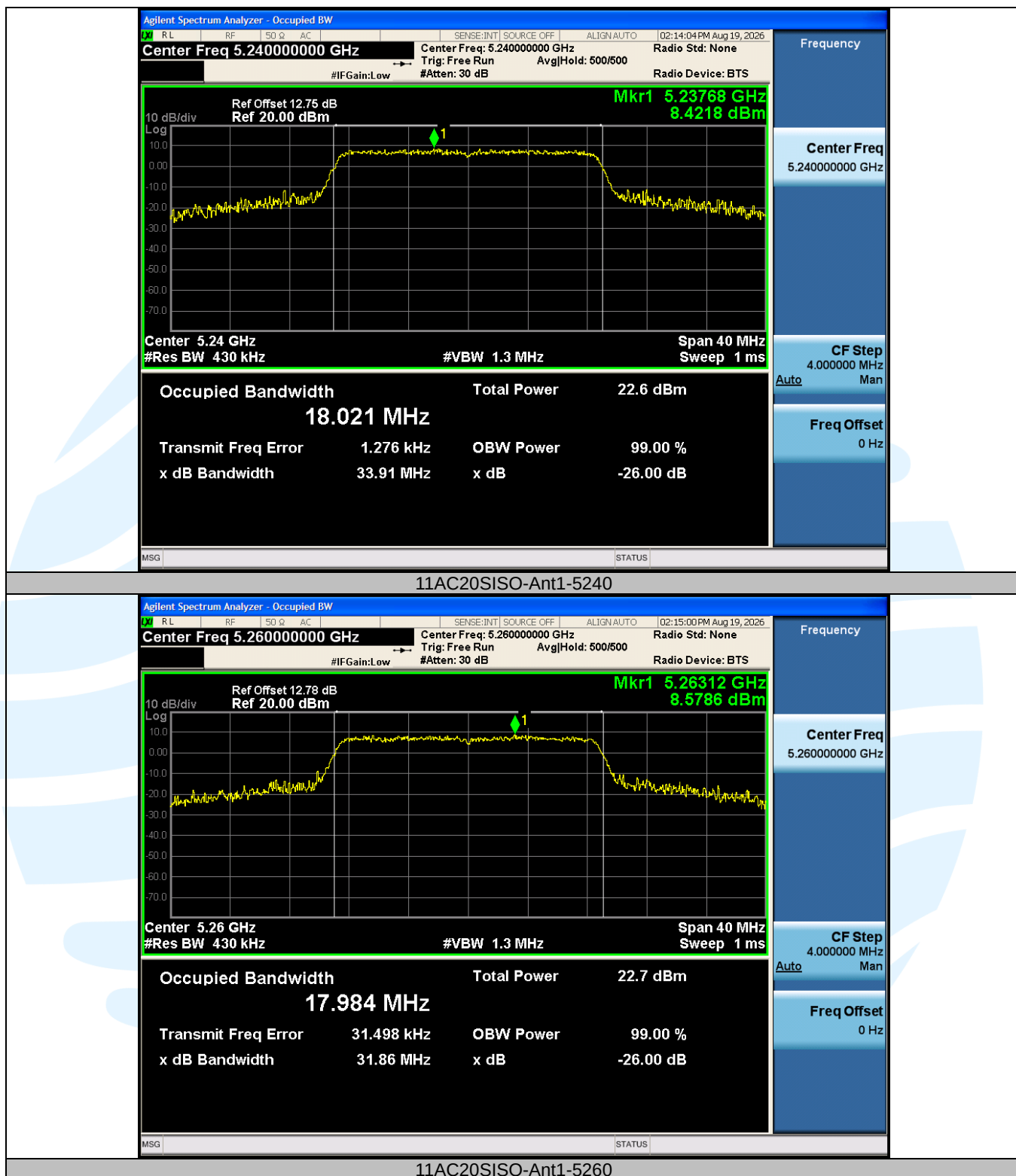
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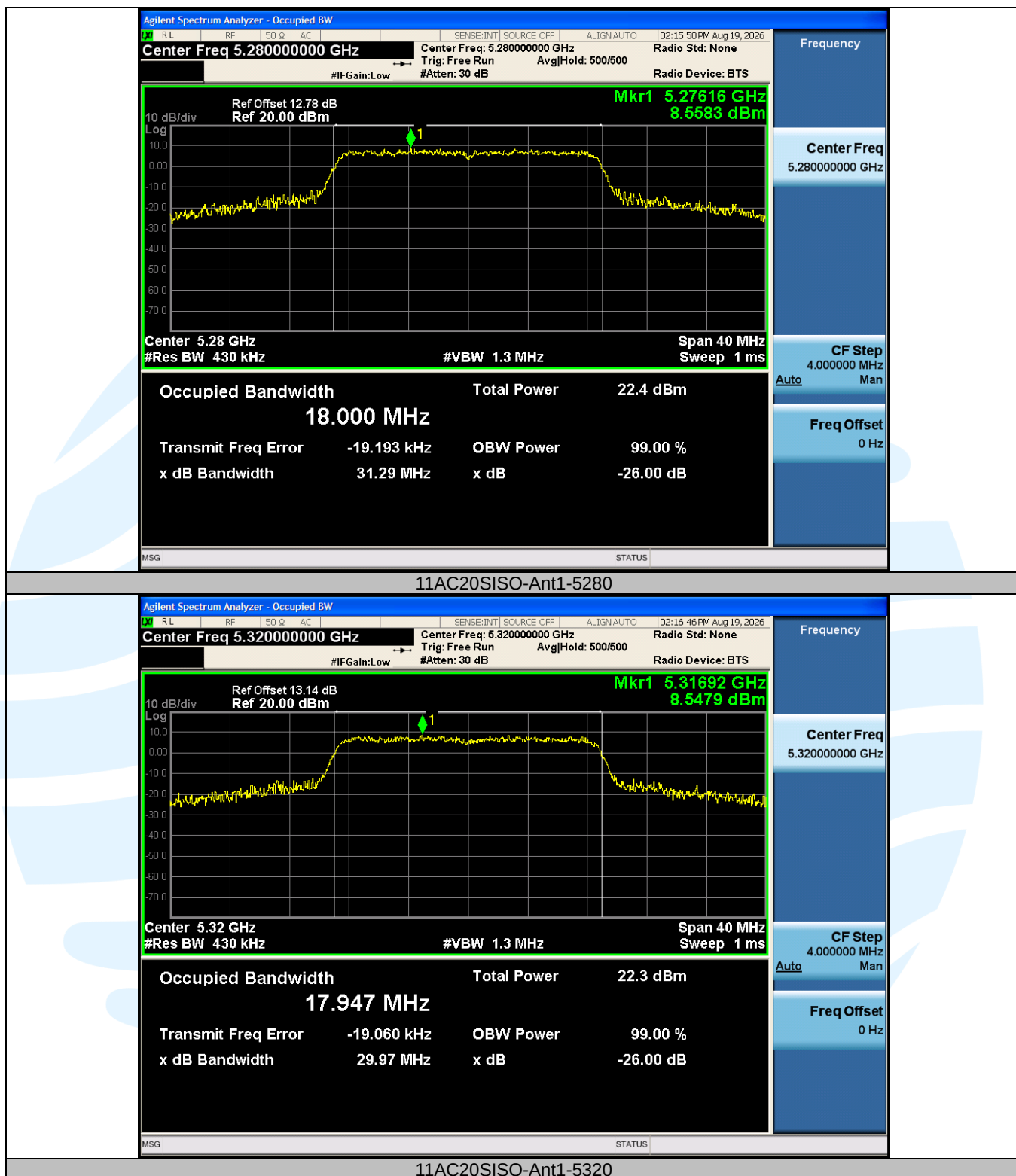
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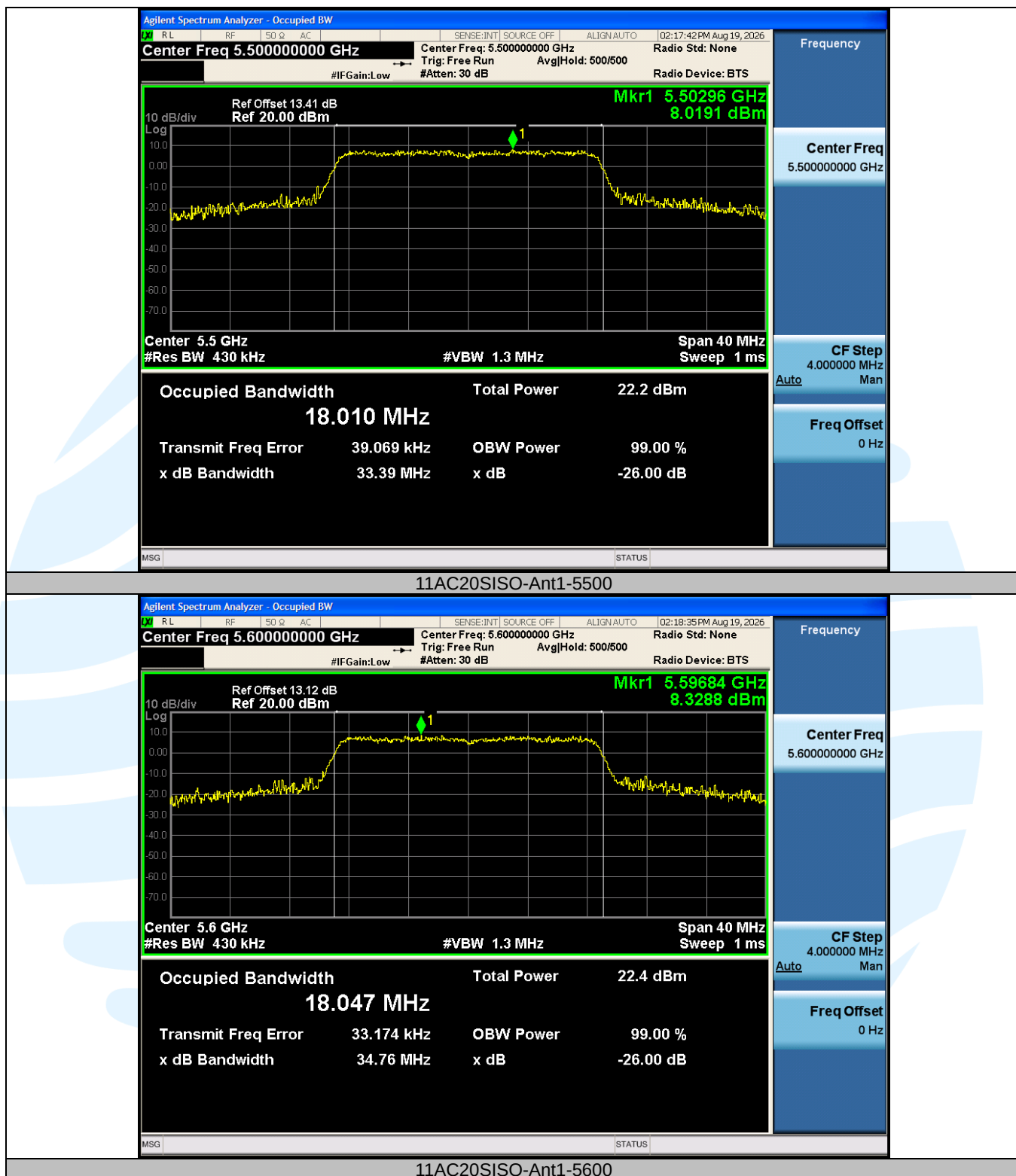
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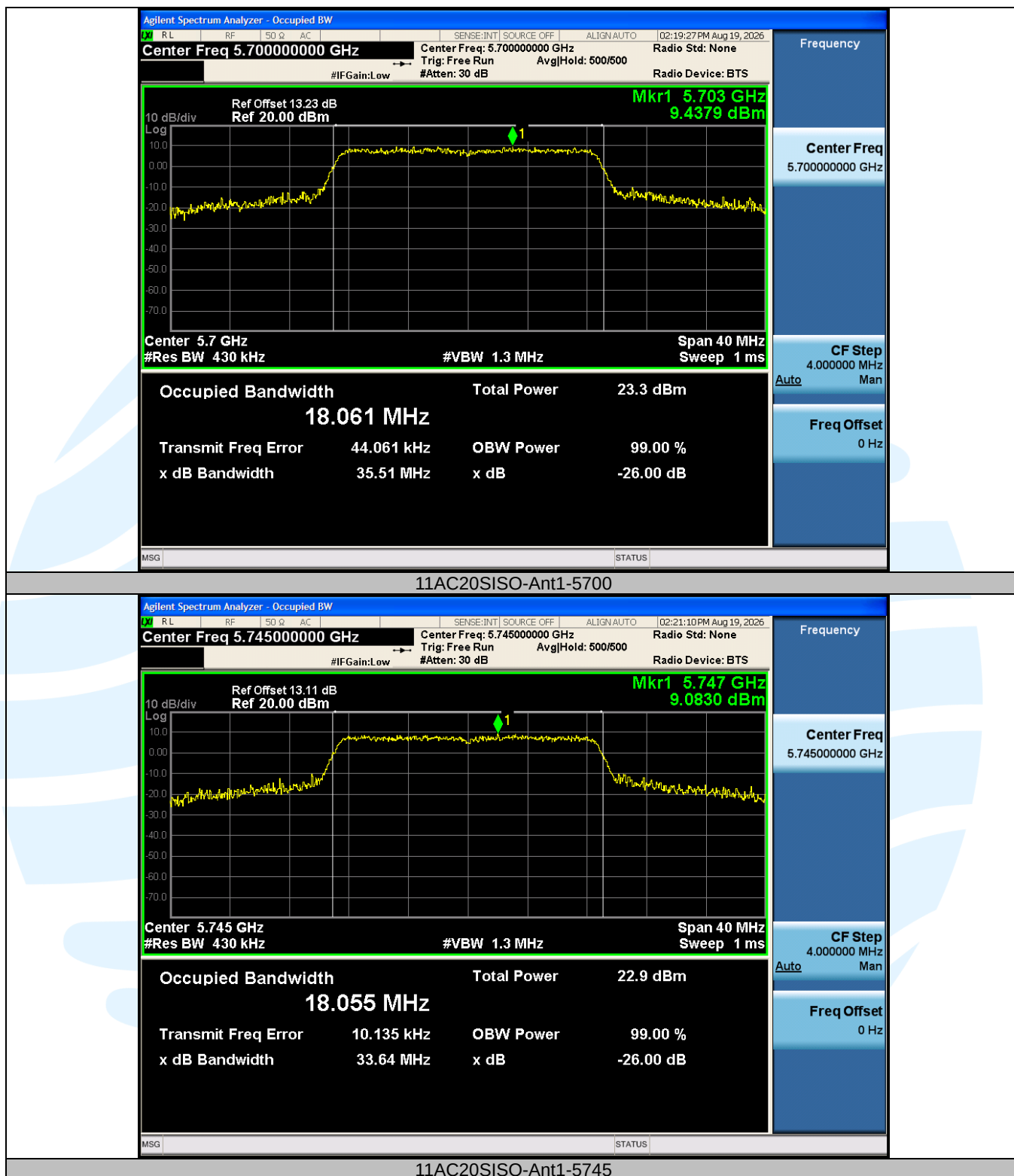
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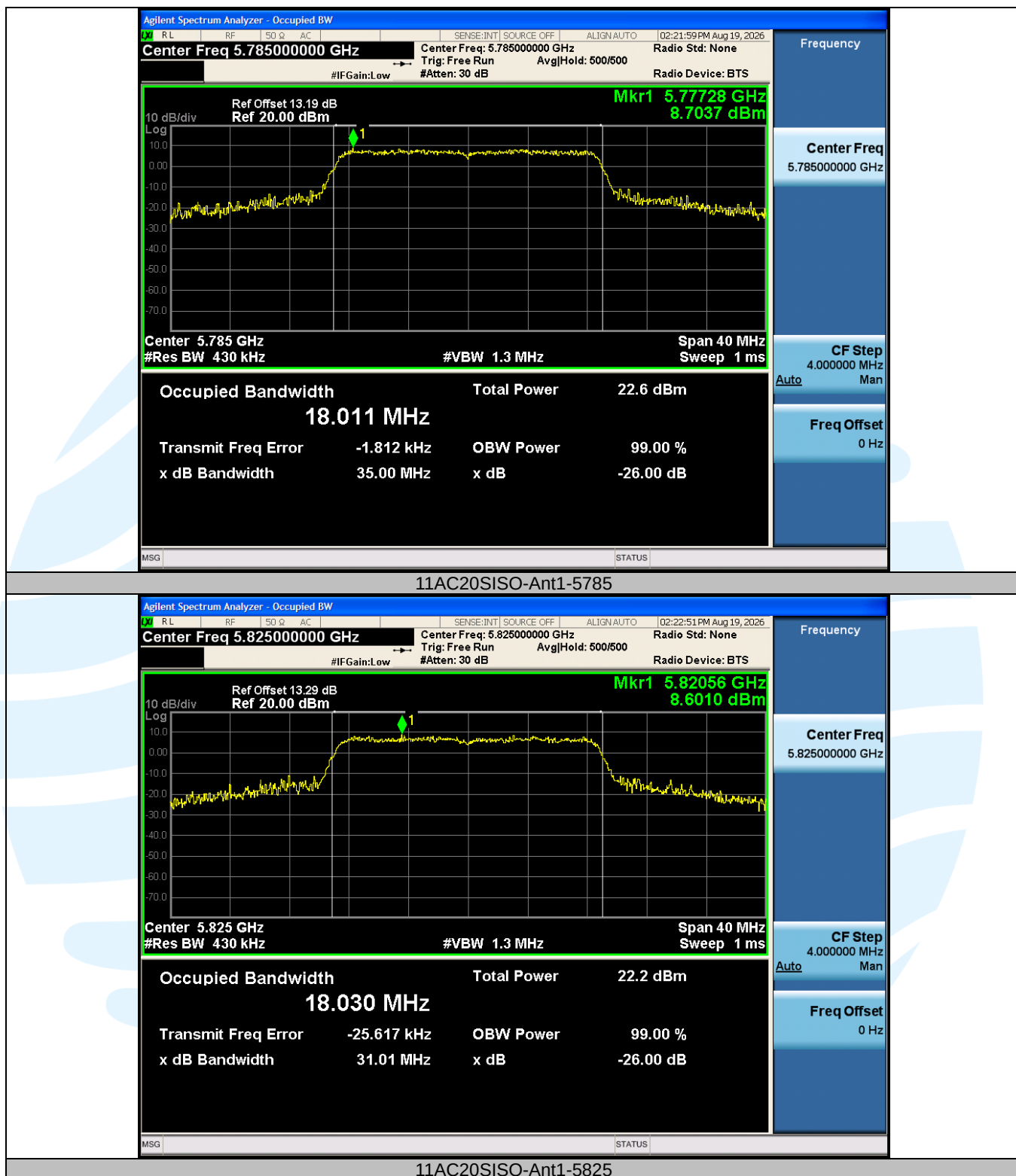
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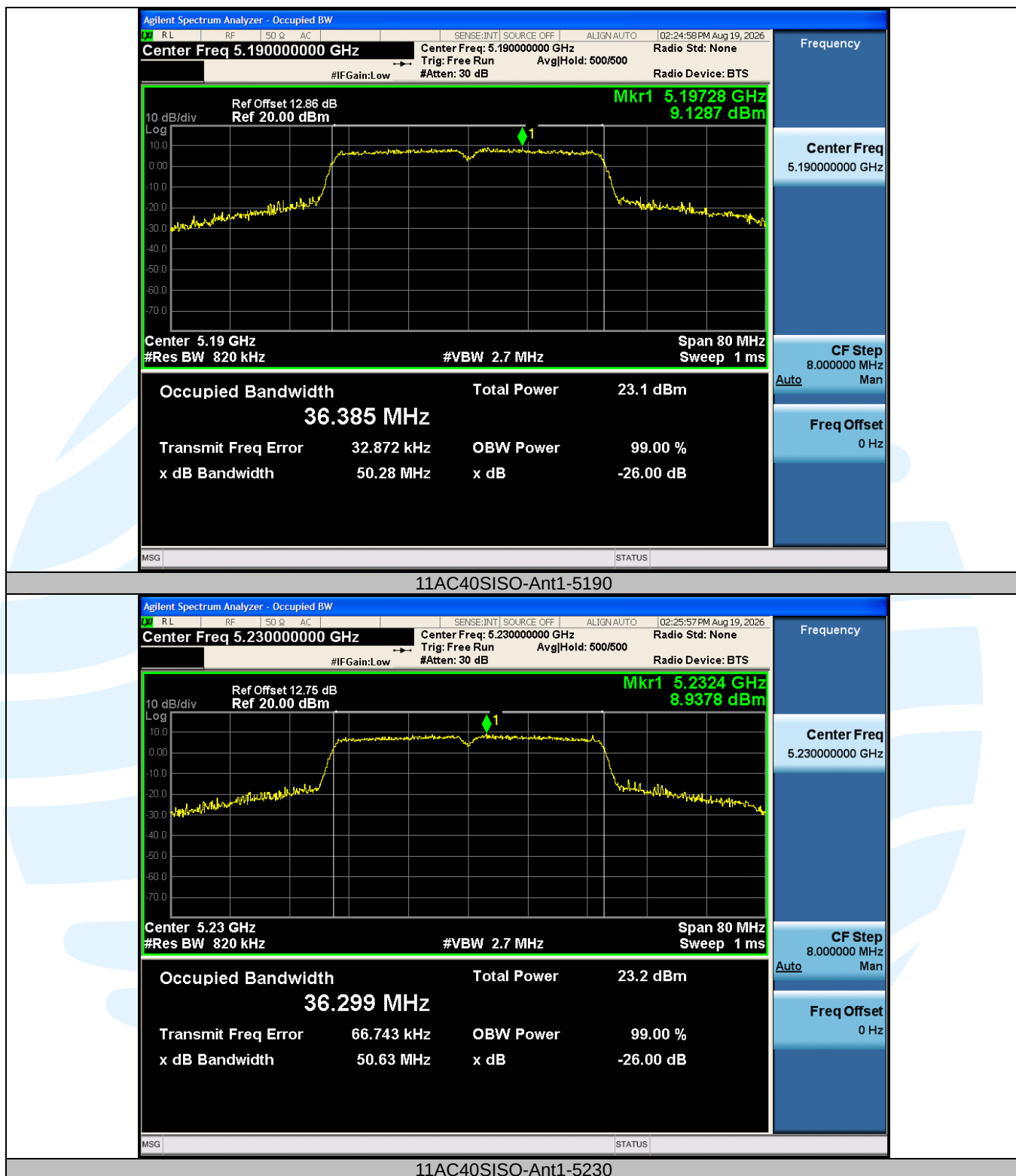
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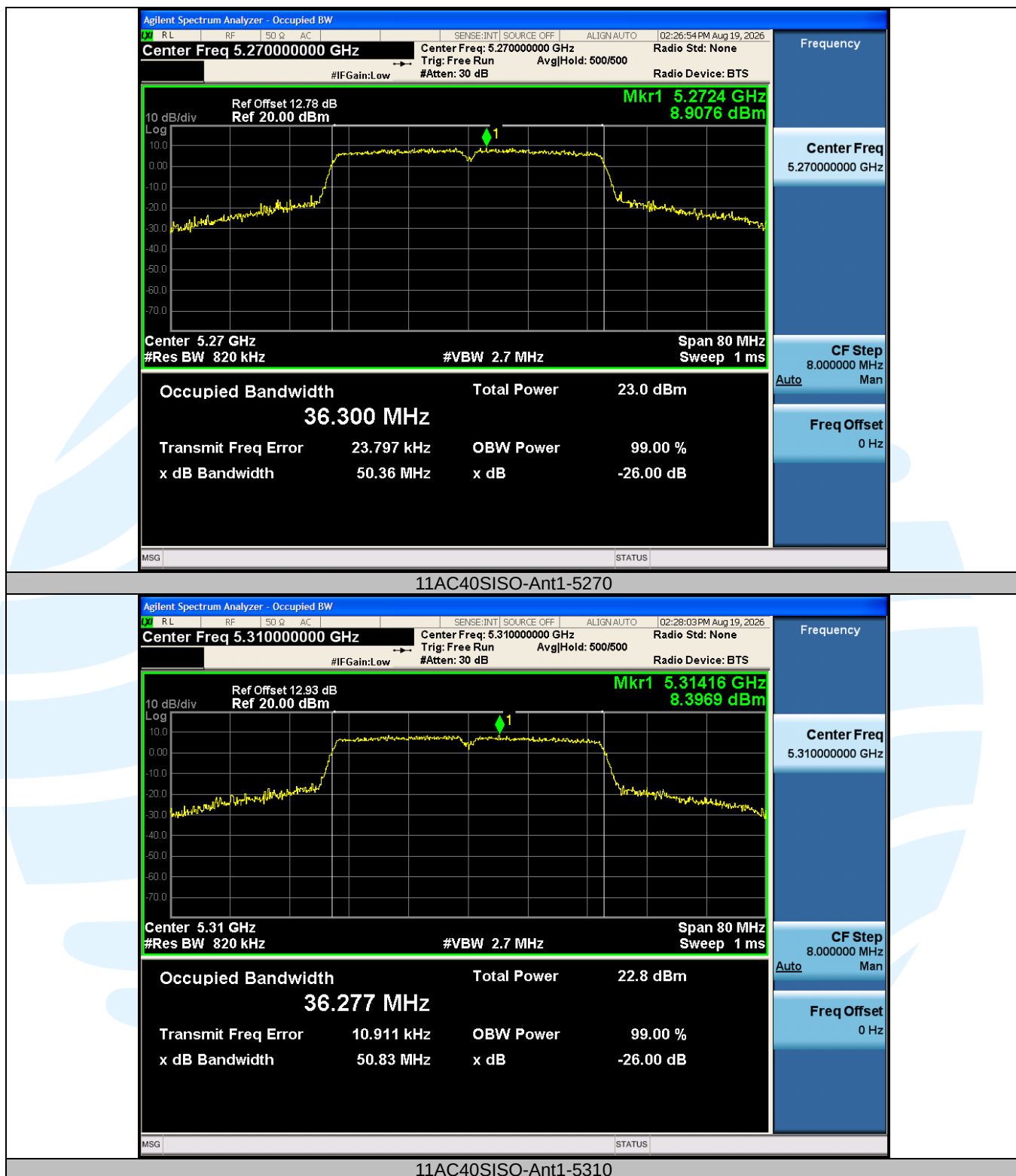
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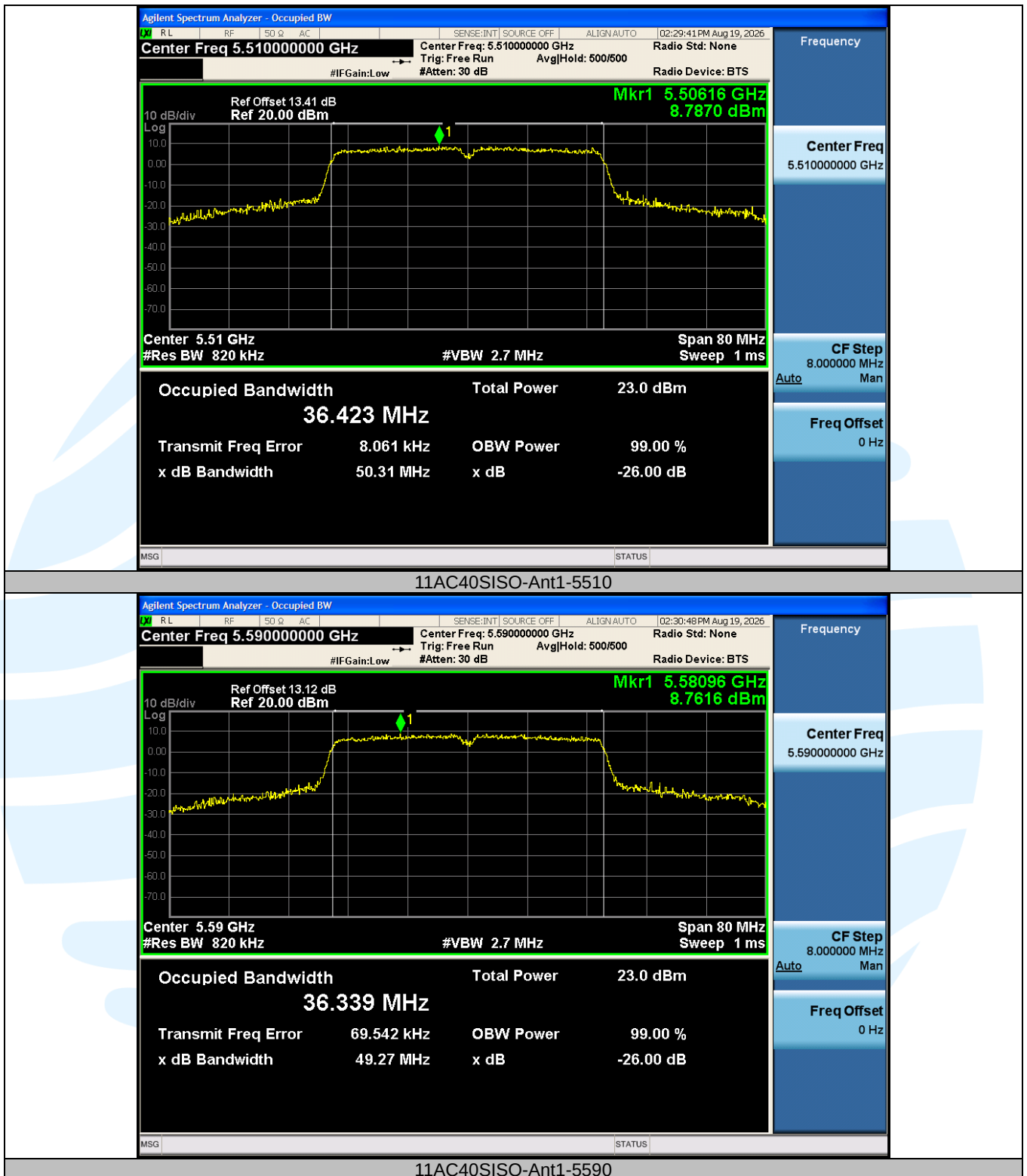
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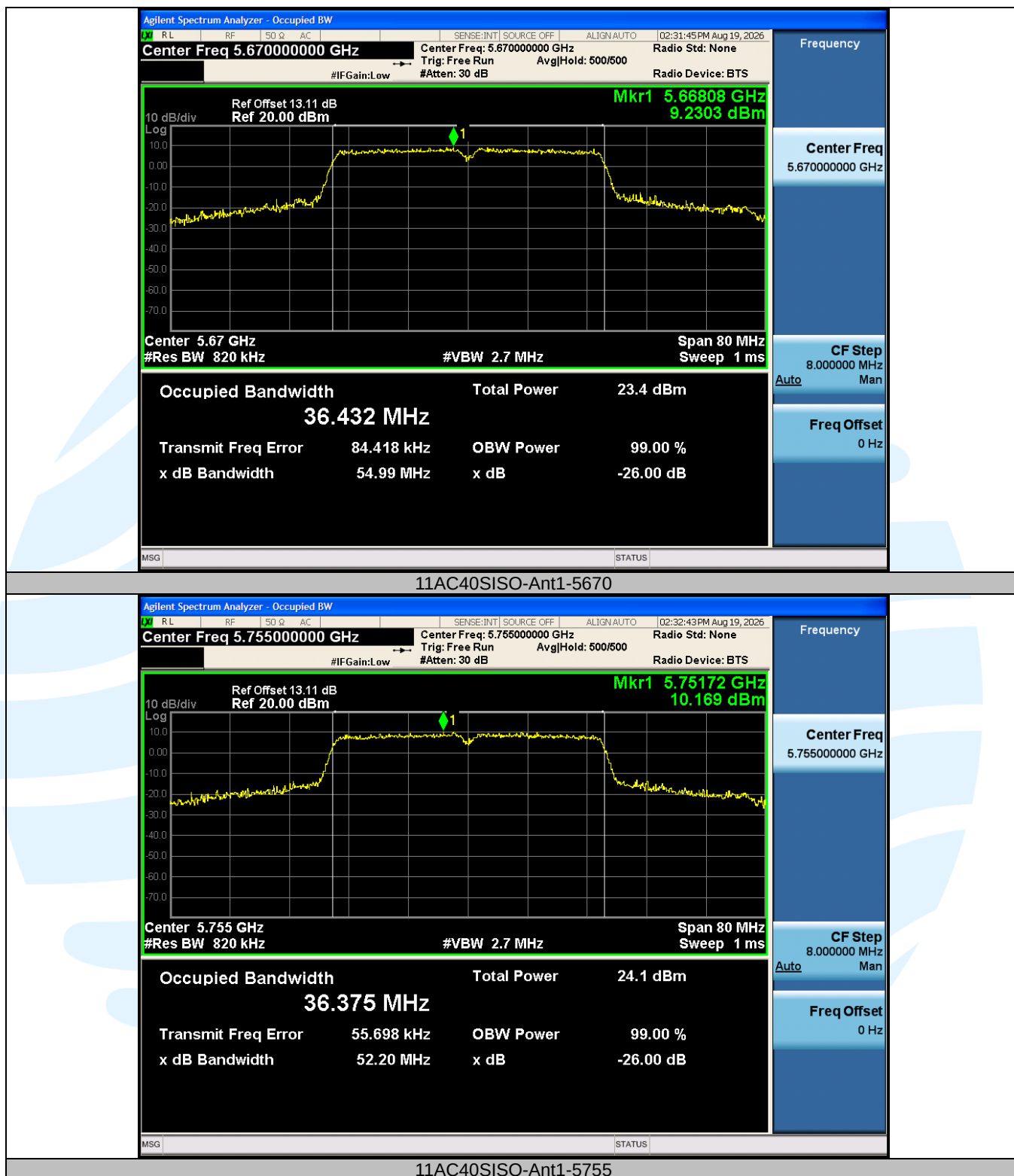
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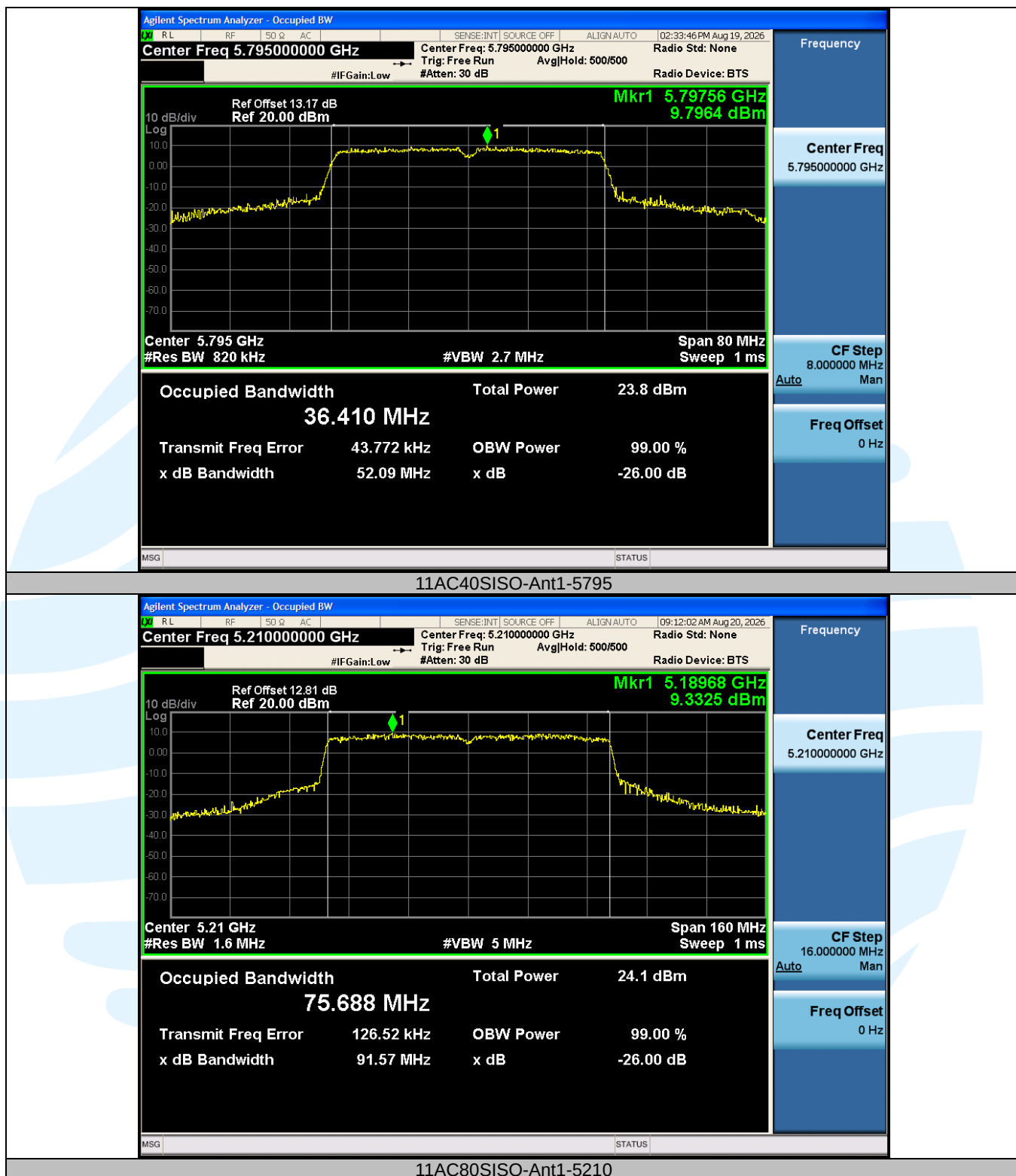
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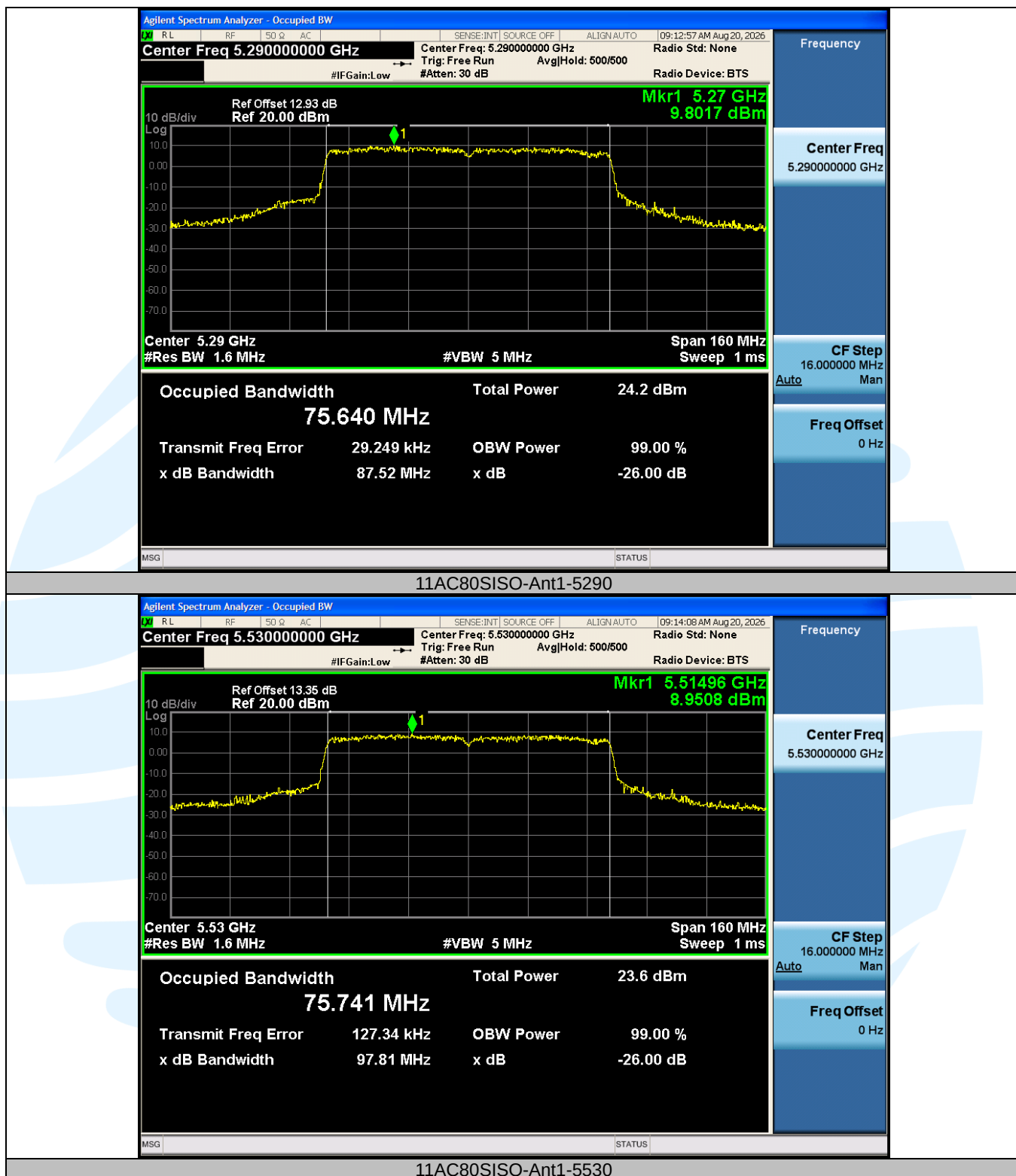
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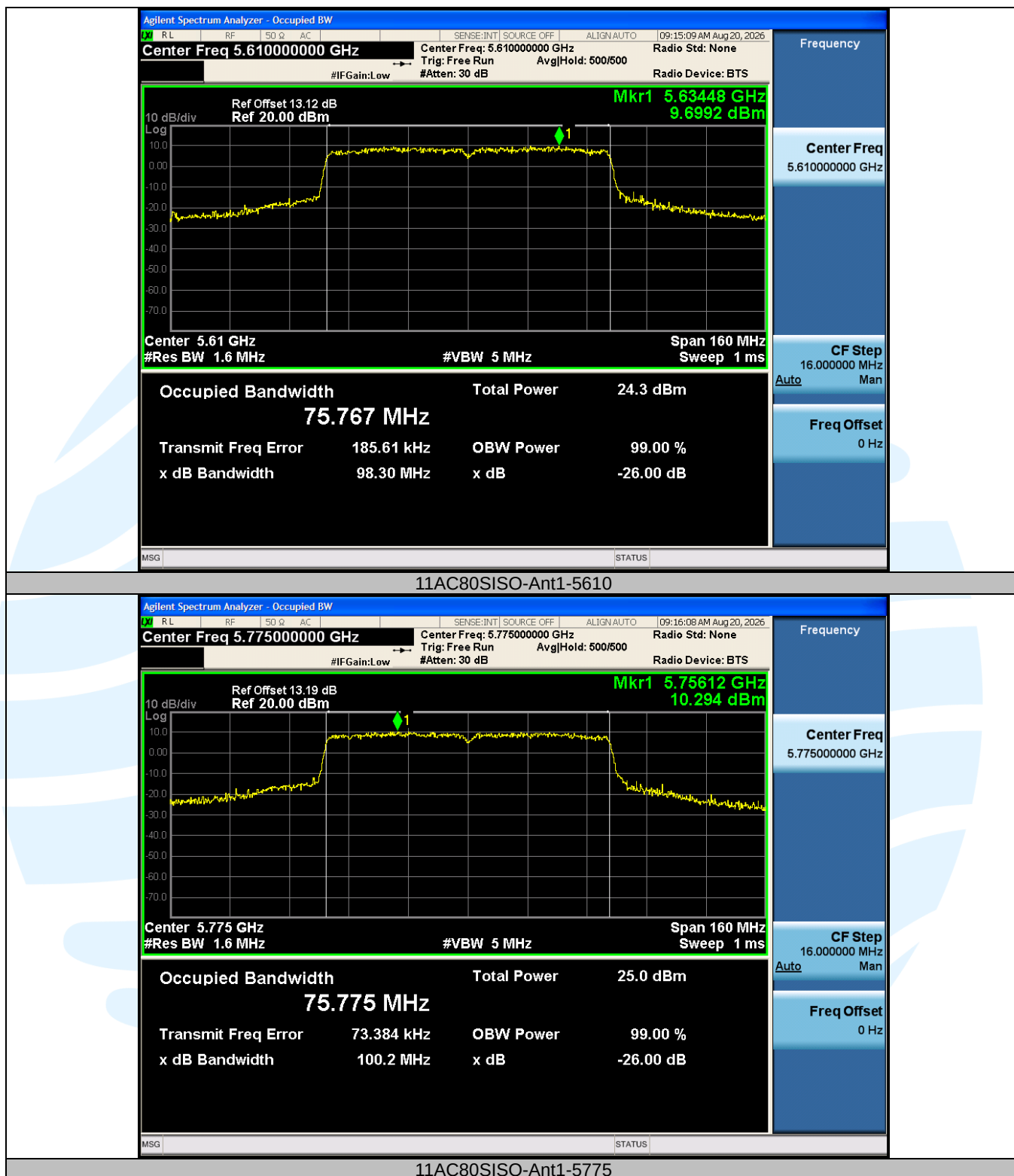
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5.6 MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section E.3.a(Method PM)

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.
2. 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.

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:

Antenna gain and the maximum output power limit.

Frequency Band	Antenna Gain (dBi)	Peak Power Limits (dBm)
U-NII-1	2.1	24.00
U-NII-2A	2.1	24.00
U-NII-2C	2.1	24.00
U-NII-3	2.1	30.00

For U-NII-2A&2C Band:

For IEEE 802.11a/n/ac, the minimum 26 dB emission bandwidth is 20.33 MHz

$11 \text{ dBm} + 10\log_{10}(23.07) = 24.63 \text{ dBm} > 24 \text{ dBm} (250\text{mW})$

So the 24 dB limit applicable

Test Mode	Ant.	Freq. [MHz]	Set Power	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	18	16.27	≤24	PASS
11A	Ant1	5200	18	16.28	≤24	PASS
11A	Ant1	5240	18	16.25	≤24	PASS
11A	Ant1	5260	18	16.34	≤24	PASS
11A	Ant1	5280	18	16.4	≤24	PASS
11A	Ant1	5320	18	16.36	≤24	PASS
11A	Ant1	5500	18	11.51	≤24	PASS
11A	Ant1	5600	18	11.98	≤24	PASS
11A	Ant1	5700	18	12.85	≤24	PASS
11A	Ant1	5745	17	13.55	≤30.00	PASS
11A	Ant1	5785	17	13.22	≤30.00	PASS
11A	Ant1	5825	17	13.13	≤30.00	PASS
11N20SISO	Ant1	5180	17	16.44	≤24	PASS
11N20SISO	Ant1	5200	17	16.47	≤24	PASS
11N20SISO	Ant1	5240	17	16.49	≤24	PASS
11N20SISO	Ant1	5260	17	16.65	≤24	PASS
11N20SISO	Ant1	5280	17	16.71	≤24	PASS
11N20SISO	Ant1	5320	17	16.66	≤24	PASS
11N20SISO	Ant1	5500	17	11.75	≤24	PASS
11N20SISO	Ant1	5600	17	12.39	≤24	PASS
11N20SISO	Ant1	5700	17	12.91	≤24	PASS
11N20SISO	Ant1	5745	17	13.64	≤30.00	PASS
11N20SISO	Ant1	5785	17	13.49	≤30.00	PASS
11N20SISO	Ant1	5825	17	13.56	≤30.00	PASS
11N40SISO	Ant1	5190	17	15.73	≤24	PASS
11N40SISO	Ant1	5230	17	16.05	≤24	PASS
11N40SISO	Ant1	5270	17	15.82	≤24	PASS
11N40SISO	Ant1	5310	17	15.85	≤24	PASS
11N40SISO	Ant1	5510	17	11.82	≤24	PASS
11N40SISO	Ant1	5590	17	11.41	≤24	PASS
11N40SISO	Ant1	5670	17	11.99	≤24	PASS
11N40SISO	Ant1	5755	17	13.34	≤30.00	PASS
11N40SISO	Ant1	5795	17	13.06	≤30.00	PASS
11AC20SISO	Ant1	5180	16	16.41	≤24	PASS
11AC20SISO	Ant1	5200	16	16.37	≤24	PASS
11AC20SISO	Ant1	5240	16	16.4	≤24	PASS
11AC20SISO	Ant1	5260	16	16.65	≤24	PASS
11AC20SISO	Ant1	5280	16	16.58	≤24	PASS
11AC20SISO	Ant1	5320	16	16.61	≤24	PASS
11AC20SISO	Ant1	5500	16	11.98	≤24	PASS
11AC20SISO	Ant1	5600	16	12.41	≤24	PASS
11AC20SISO	Ant1	5700	16	12.95	≤24	PASS
11AC20SISO	Ant1	5745	15	13.66	≤30.00	PASS
11AC20SISO	Ant1	5785	15	13.61	≤30.00	PASS
11AC20SISO	Ant1	5825	15	13.68	≤30.00	PASS
11AC40SISO	Ant1	5190	16	16.01	≤24	PASS
11AC40SISO	Ant1	5230	16	15.96	≤24	PASS
11AC40SISO	Ant1	5270	16	16.21	≤24	PASS
11AC40SISO	Ant1	5310	16	16.15	≤24	PASS
11AC40SISO	Ant1	5510	16	12.03	≤24	PASS
11AC40SISO	Ant1	5590	16	11.65	≤24	PASS
11AC40SISO	Ant1	5670	16	11.61	≤24	PASS
11AC40SISO	Ant1	5755	16	13.46	≤30.00	PASS
11AC40SISO	Ant1	5795	16	13.44	≤30.00	PASS
11AC80SISO	Ant1	5210	16	15.41	≤24	PASS
11AC80SISO	Ant1	5290	16	15.92	≤24	PASS
11AC80SISO	Ant1	5530	16	11.48	≤24	PASS
11AC80SISO	Ant1	5610	16	11.98	≤24	PASS
11AC80SISO	Ant1	5775	16	13.06	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the result.

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5.7 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section F

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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:

1. For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

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:

c

Antenna gain and the maximum output power limit.

Frequency Band	Antenna Gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	2.1	11.00
U-NII-2A	2.1	11.00
U-NII-2C	2.1	11.00
U-NII-3	2.1	30.00

Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	6.01	≤ 11.00	PASS
11A	Ant1	5200	5.81	≤ 11.00	PASS
11A	Ant1	5240	6.04	≤ 11.00	PASS
11A	Ant1	5260	6.10	≤ 11.00	PASS
11A	Ant1	5280	5.99	≤ 11.00	PASS
11A	Ant1	5320	5.60	≤ 11.00	PASS
11A	Ant1	5500	5.52	≤ 11.00	PASS
11A	Ant1	5600	5.90	≤ 11.00	PASS
11A	Ant1	5700	6.54	≤ 11.00	PASS
11A	Ant1	5745	3.27	≤ 30.00	PASS
11A	Ant1	5785	2.97	≤ 30.00	PASS
11A	Ant1	5825	2.43	≤ 30.00	PASS
11N20SISO	Ant1	5180	5.16	≤ 11.00	PASS
11N20SISO	Ant1	5200	4.86	≤ 11.00	PASS
11N20SISO	Ant1	5240	5.14	≤ 11.00	PASS
11N20SISO	Ant1	5260	5.23	≤ 11.00	PASS
11N20SISO	Ant1	5280	4.74	≤ 11.00	PASS
11N20SISO	Ant1	5320	4.80	≤ 11.00	PASS
11N20SISO	Ant1	5500	4.59	≤ 11.00	PASS
11N20SISO	Ant1	5600	4.67	≤ 11.00	PASS
11N20SISO	Ant1	5700	5.61	≤ 11.00	PASS

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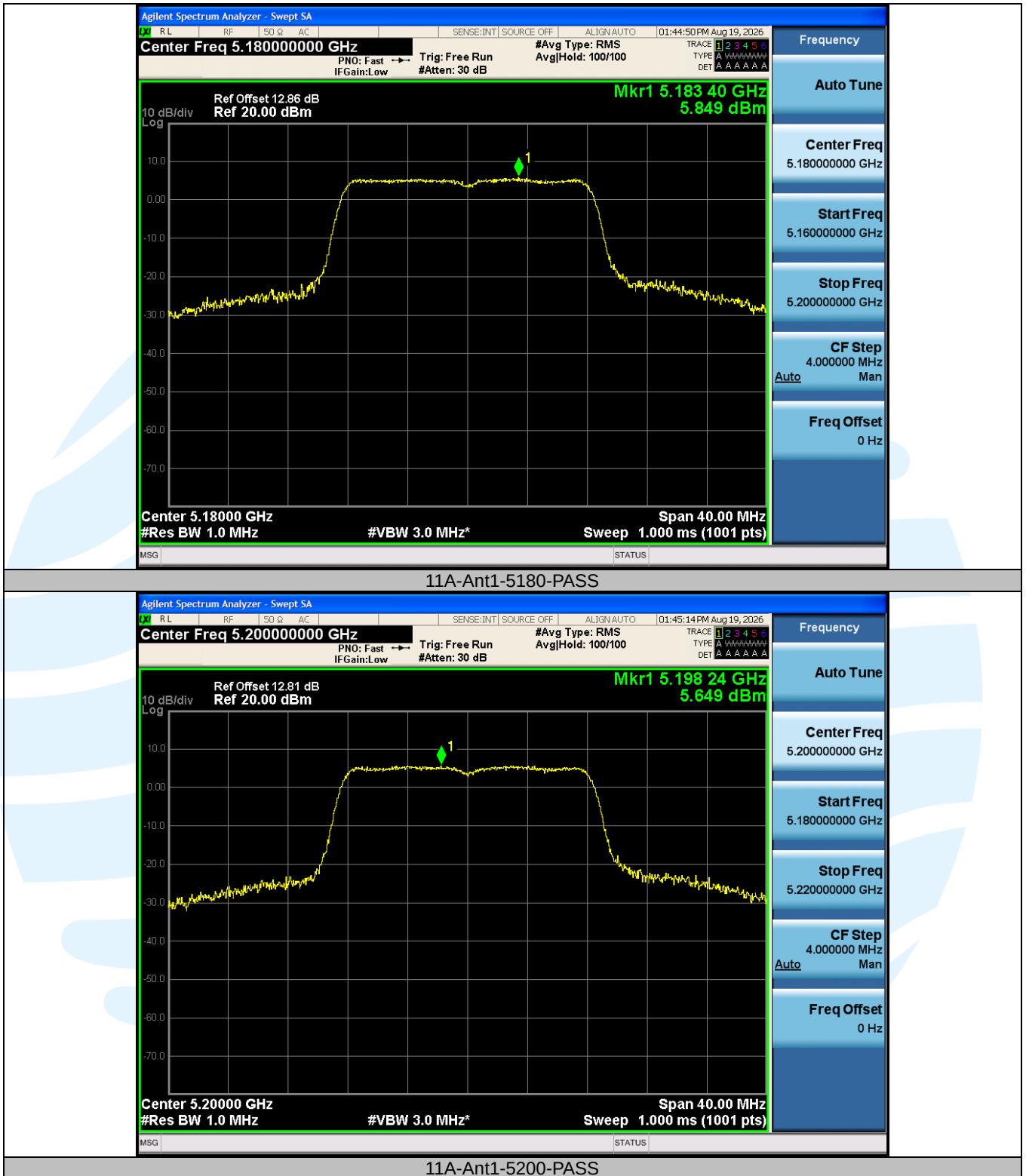
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11N20SISO	Ant1	5745	3.25	≤30.00	PASS
11N20SISO	Ant1	5785	2.77	≤30.00	PASS
11N20SISO	Ant1	5825	2.52	≤30.00	PASS
11N40SISO	Ant1	5190	1.76	≤11.00	PASS
11N40SISO	Ant1	5230	1.96	≤11.00	PASS
11N40SISO	Ant1	5270	1.98	≤11.00	PASS
11N40SISO	Ant1	5310	1.45	≤11.00	PASS
11N40SISO	Ant1	5510	1.67	≤11.00	PASS
11N40SISO	Ant1	5590	1.88	≤11.00	PASS
11N40SISO	Ant1	5670	1.92	≤11.00	PASS
11N40SISO	Ant1	5755	-0.36	≤30.00	PASS
11N40SISO	Ant1	5795	-0.57	≤30.00	PASS
11AC20SISO	Ant1	5180	4.17	≤11.00	PASS
11AC20SISO	Ant1	5200	4.09	≤11.00	PASS
11AC20SISO	Ant1	5240	4.14	≤11.00	PASS
11AC20SISO	Ant1	5260	4.01	≤11.00	PASS
11AC20SISO	Ant1	5280	3.91	≤11.00	PASS
11AC20SISO	Ant1	5320	3.68	≤11.00	PASS
11AC20SISO	Ant1	5500	3.66	≤11.00	PASS
11AC20SISO	Ant1	5600	3.98	≤11.00	PASS
11AC20SISO	Ant1	5700	4.78	≤11.00	PASS
11AC20SISO	Ant1	5745	1.43	≤30.00	PASS
11AC20SISO	Ant1	5785	1.03	≤30.00	PASS
11AC20SISO	Ant1	5825	0.64	≤30.00	PASS
11AC40SISO	Ant1	5190	1.34	≤11.00	PASS
11AC40SISO	Ant1	5230	1.14	≤11.00	PASS
11AC40SISO	Ant1	5270	1.08	≤11.00	PASS
11AC40SISO	Ant1	5310	1.29	≤11.00	PASS
11AC40SISO	Ant1	5510	1.14	≤11.00	PASS
11AC40SISO	Ant1	5590	1.01	≤11.00	PASS
11AC40SISO	Ant1	5670	1.27	≤11.00	PASS
11AC40SISO	Ant1	5755	-0.92	≤30.00	PASS
11AC40SISO	Ant1	5795	-1.12	≤30.00	PASS
11AC80SISO	Ant1	5210	-2.26	≤11.00	PASS
11AC80SISO	Ant1	5290	-1.68	≤11.00	PASS
11AC80SISO	Ant1	5530	-2.44	≤11.00	PASS
11AC80SISO	Ant1	5610	-1.29	≤11.00	PASS
11AC80SISO	Ant1	5775	-4.08	≤30.00	PASS

Note:

- 1) The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
- 2) The Duty Cycle Factor and RBW Factor is compensated in the result.



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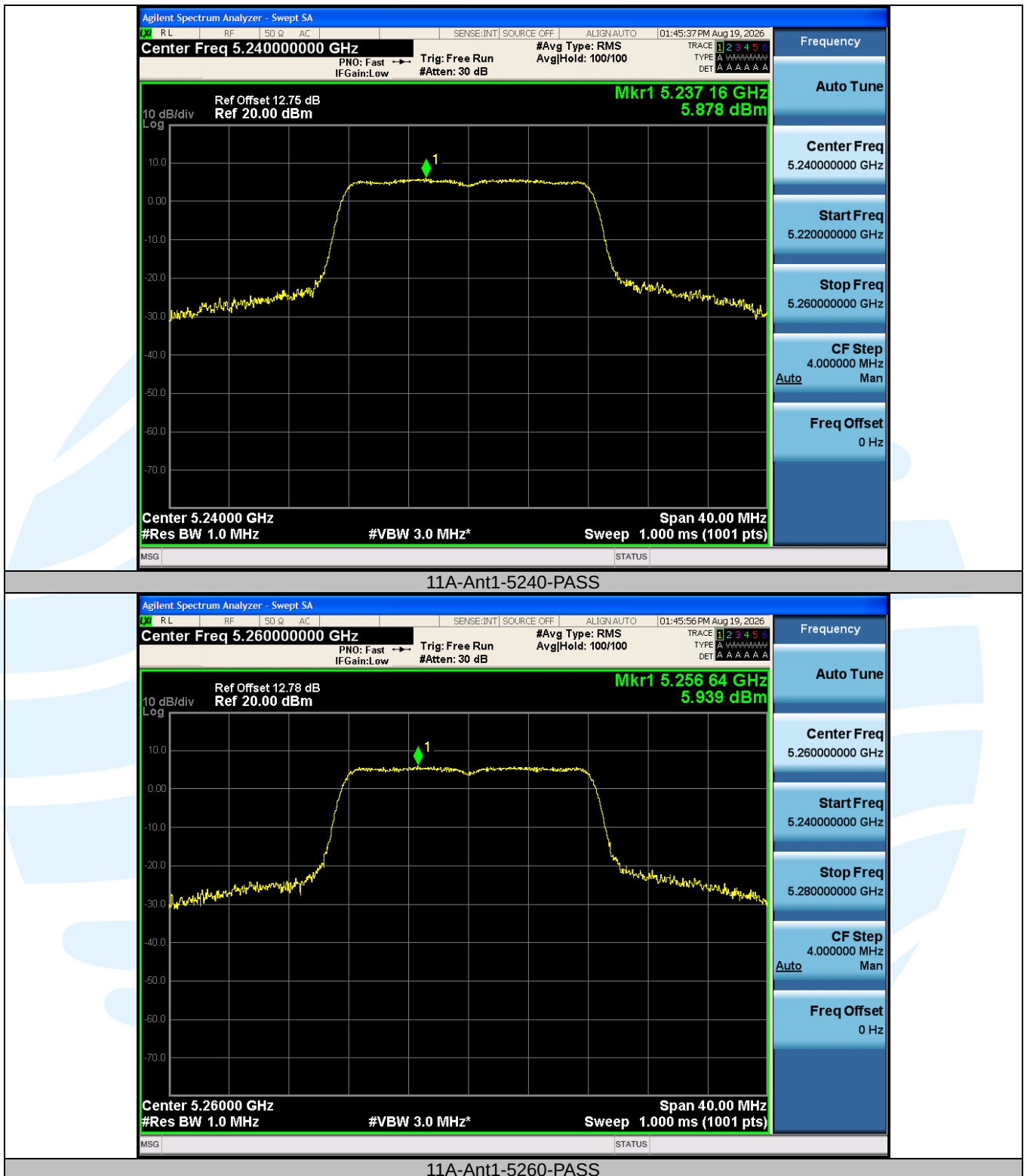
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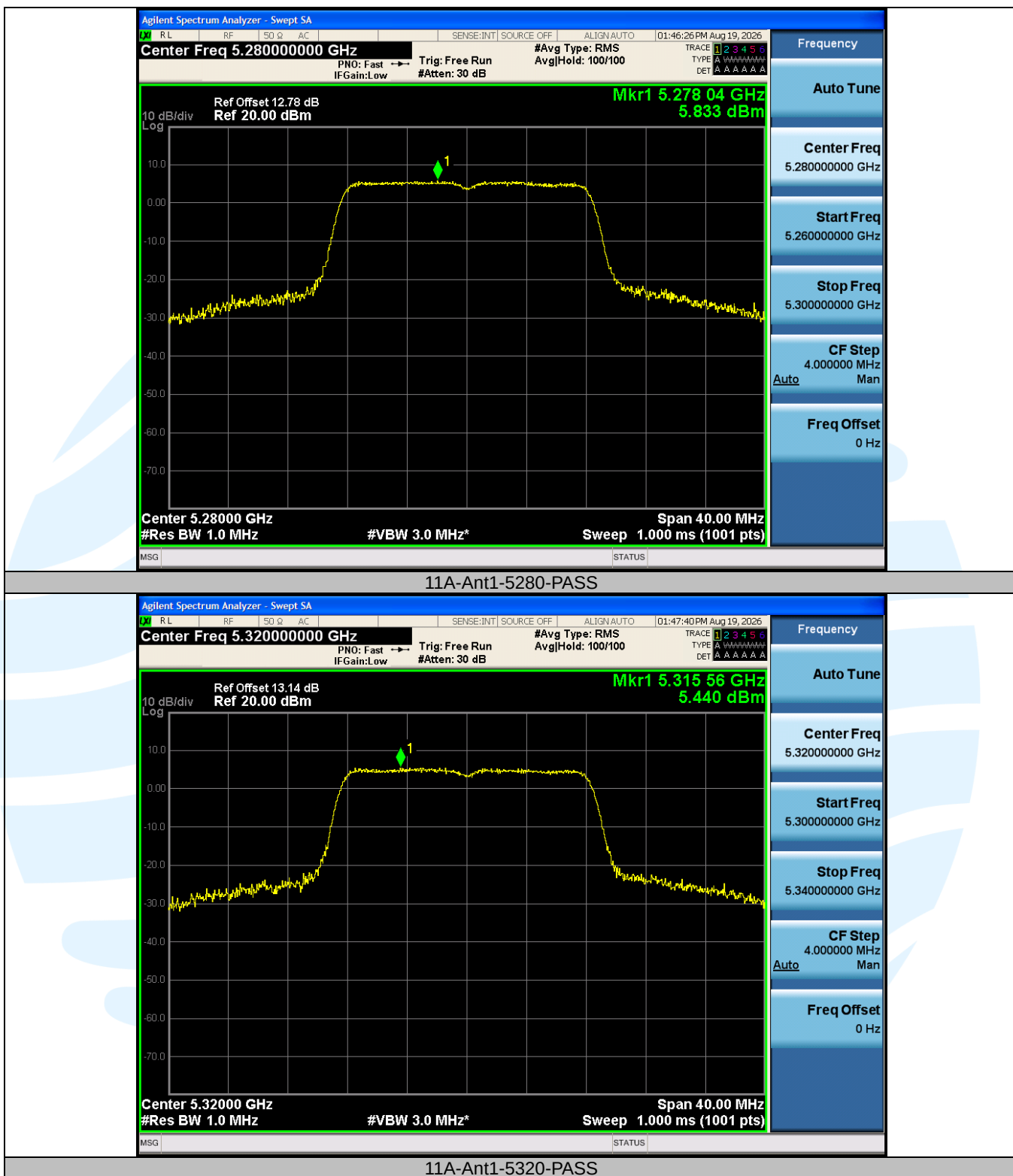
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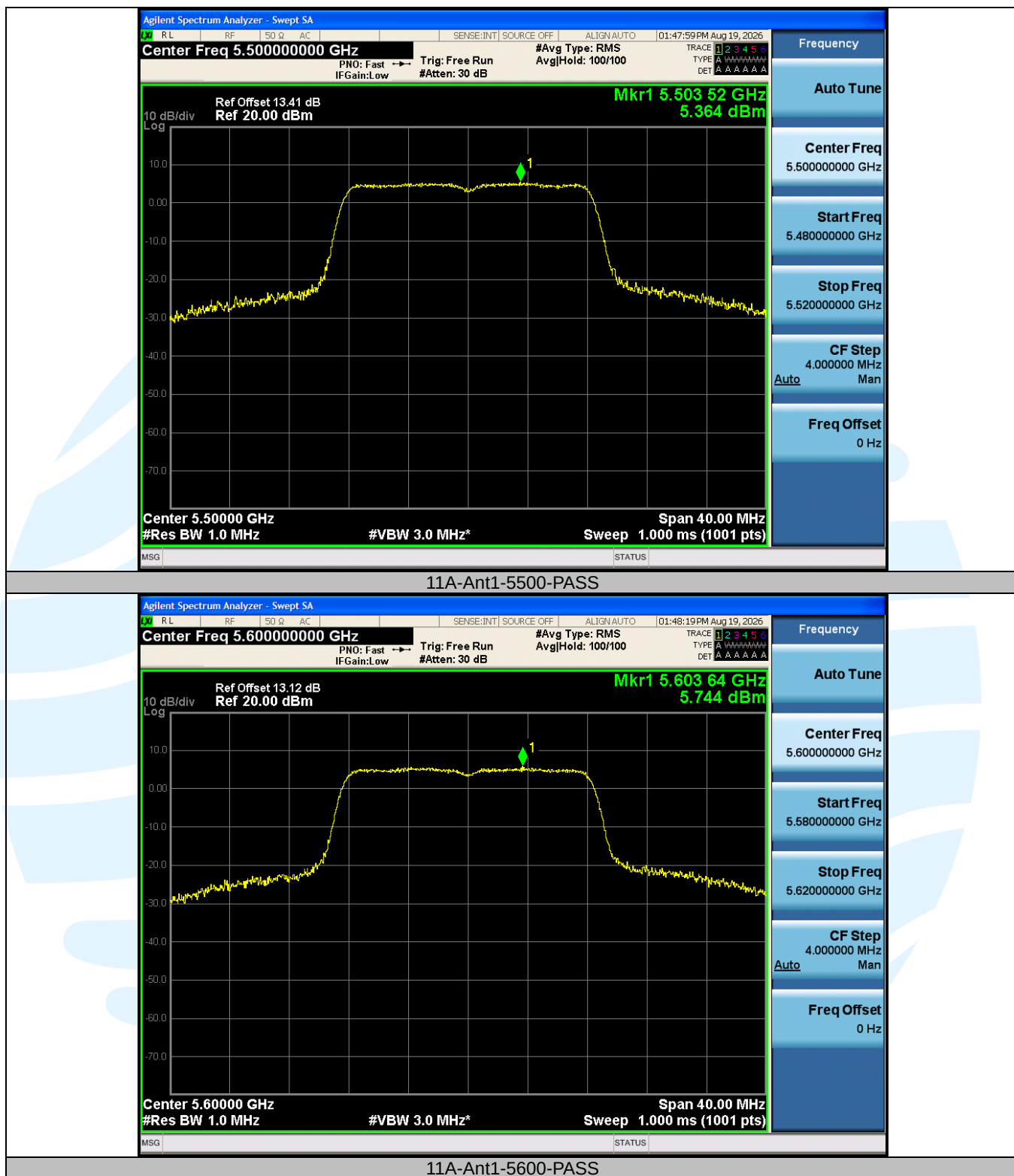
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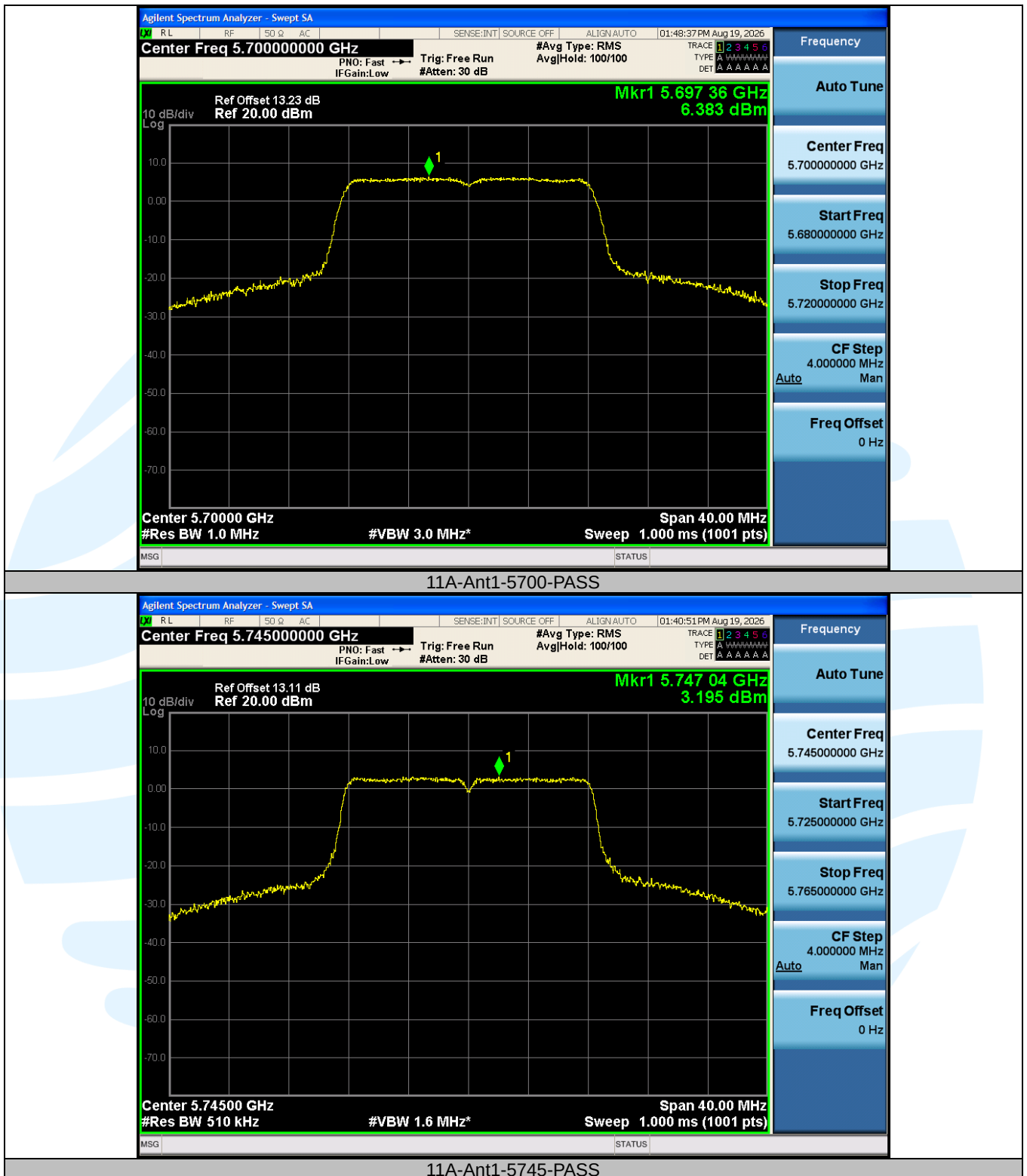
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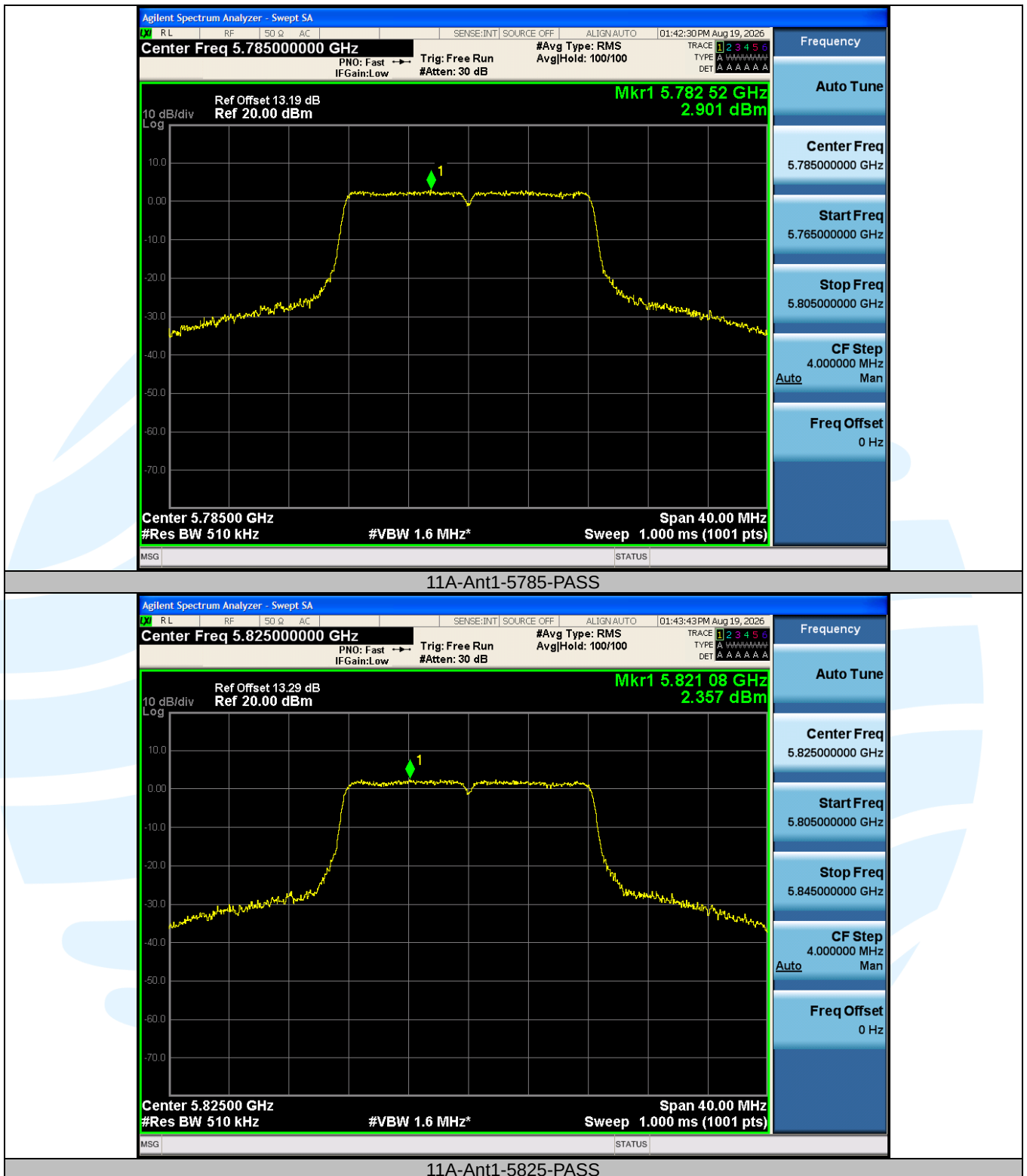
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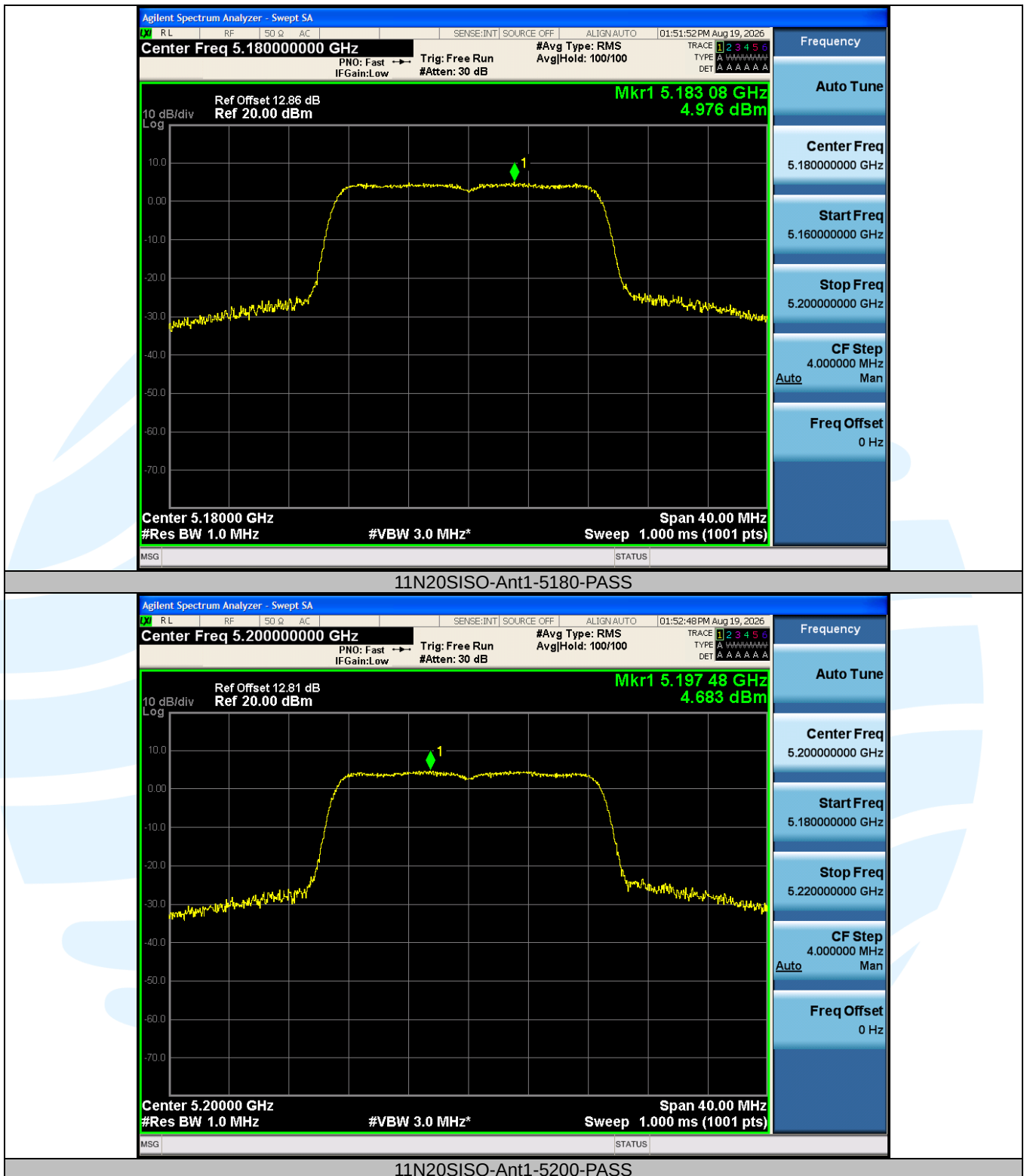
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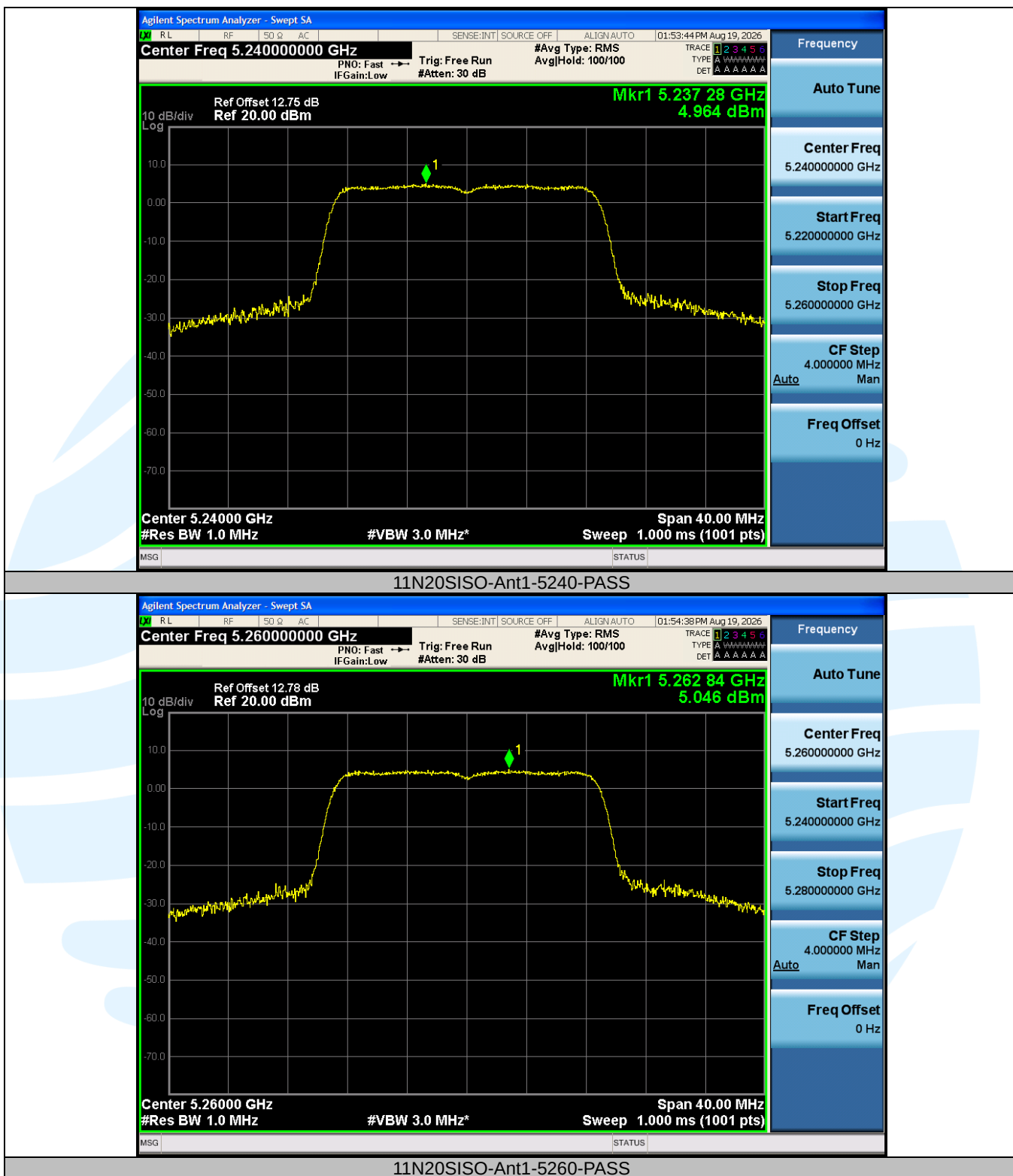
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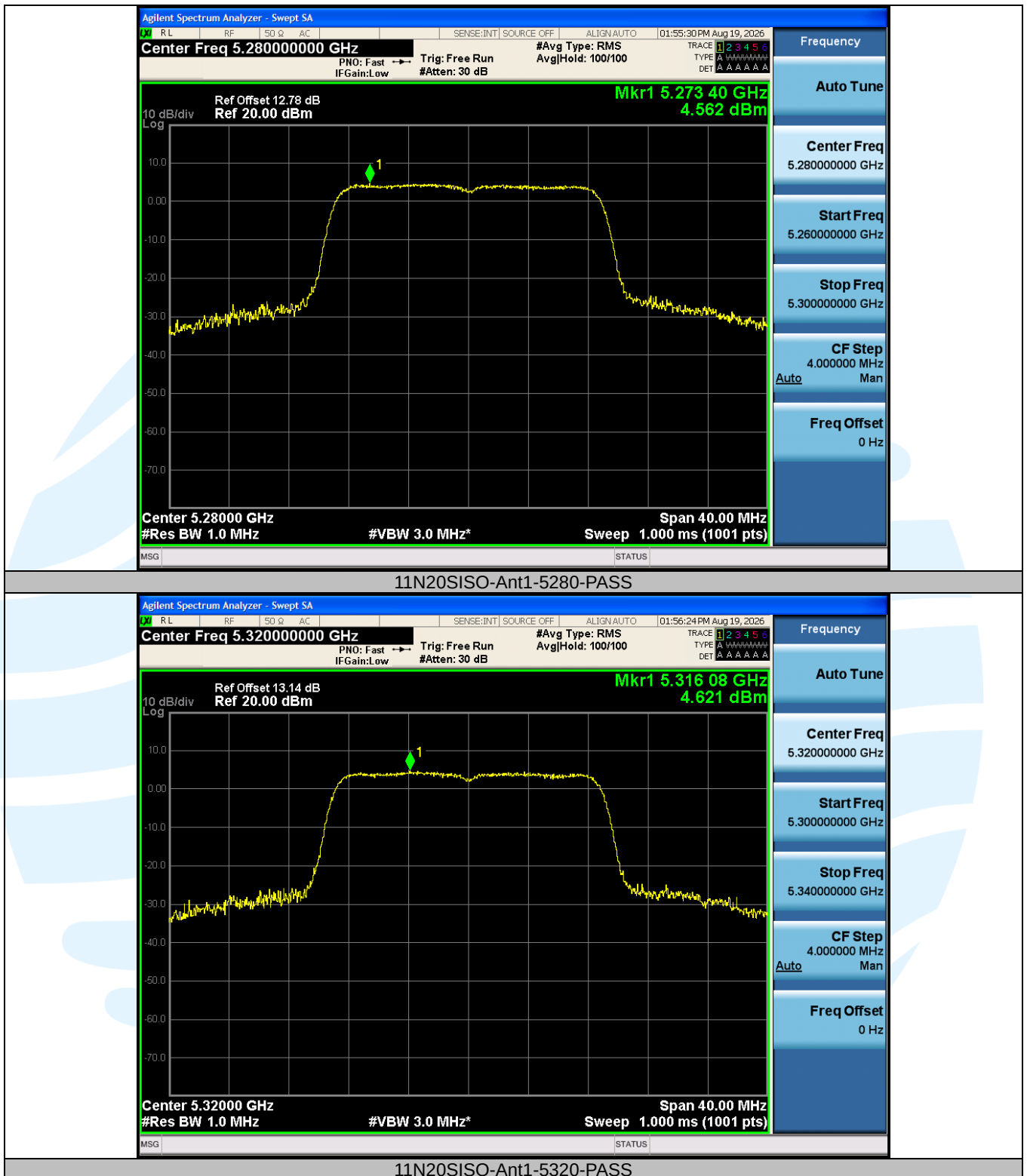
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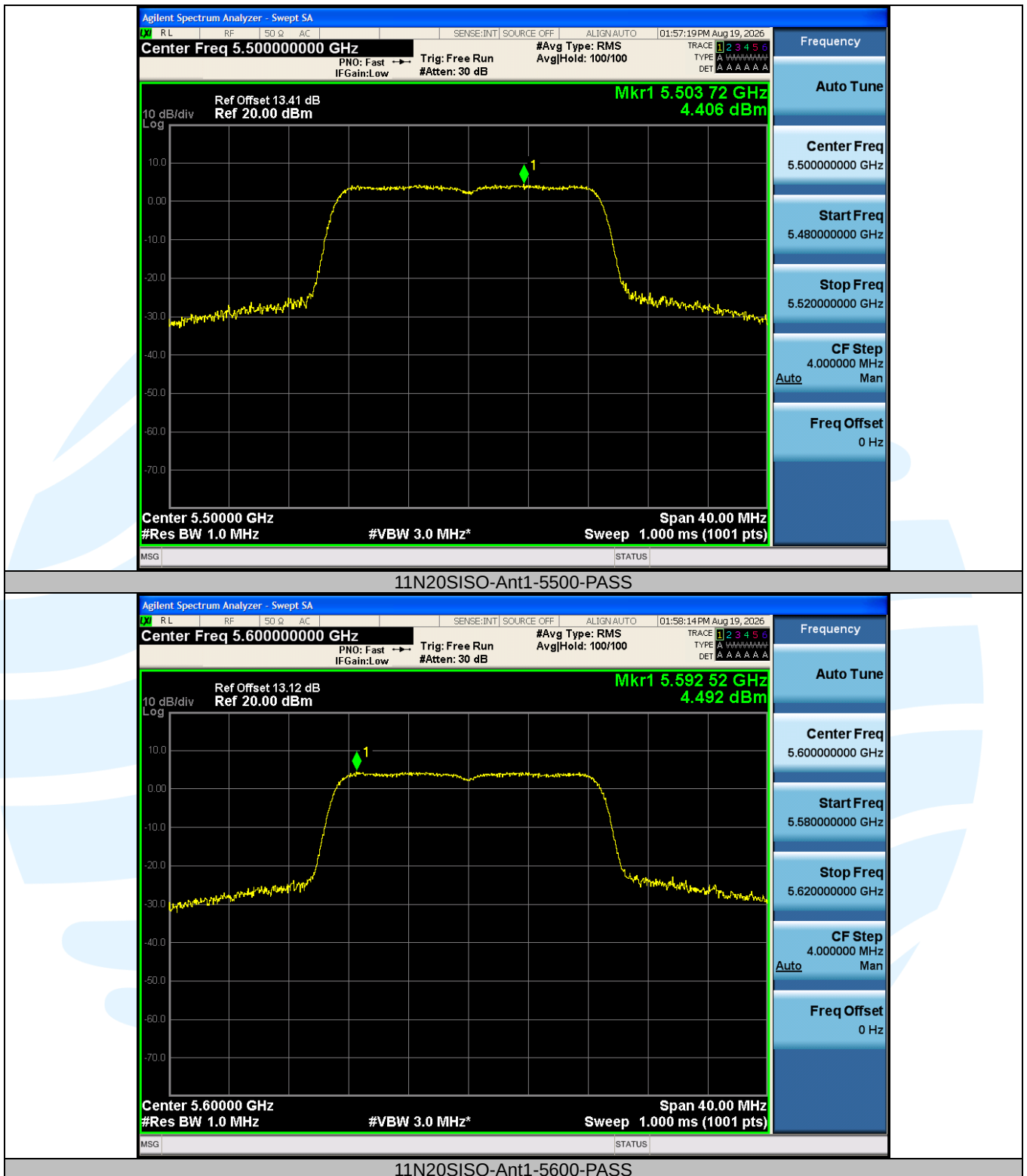
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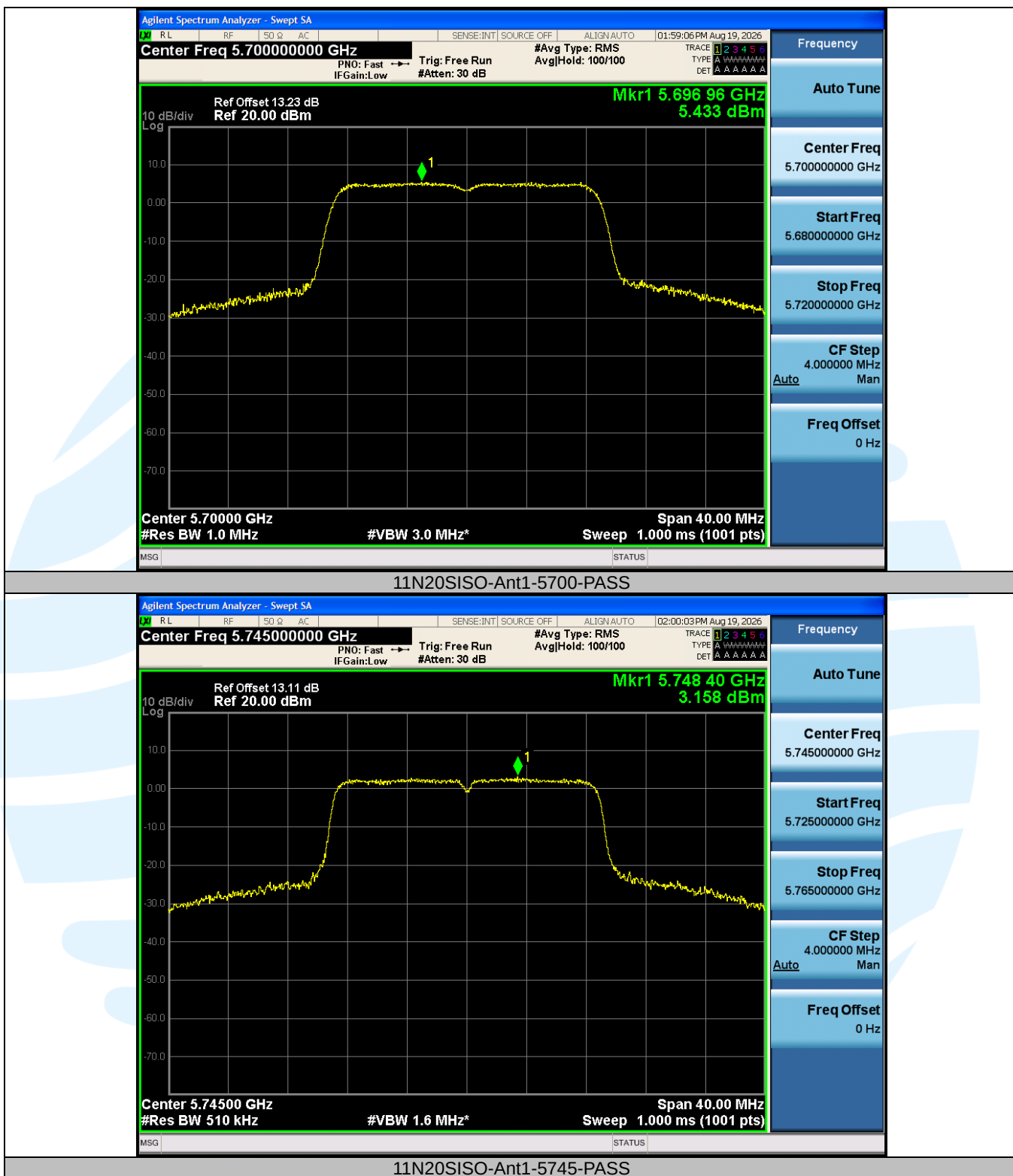
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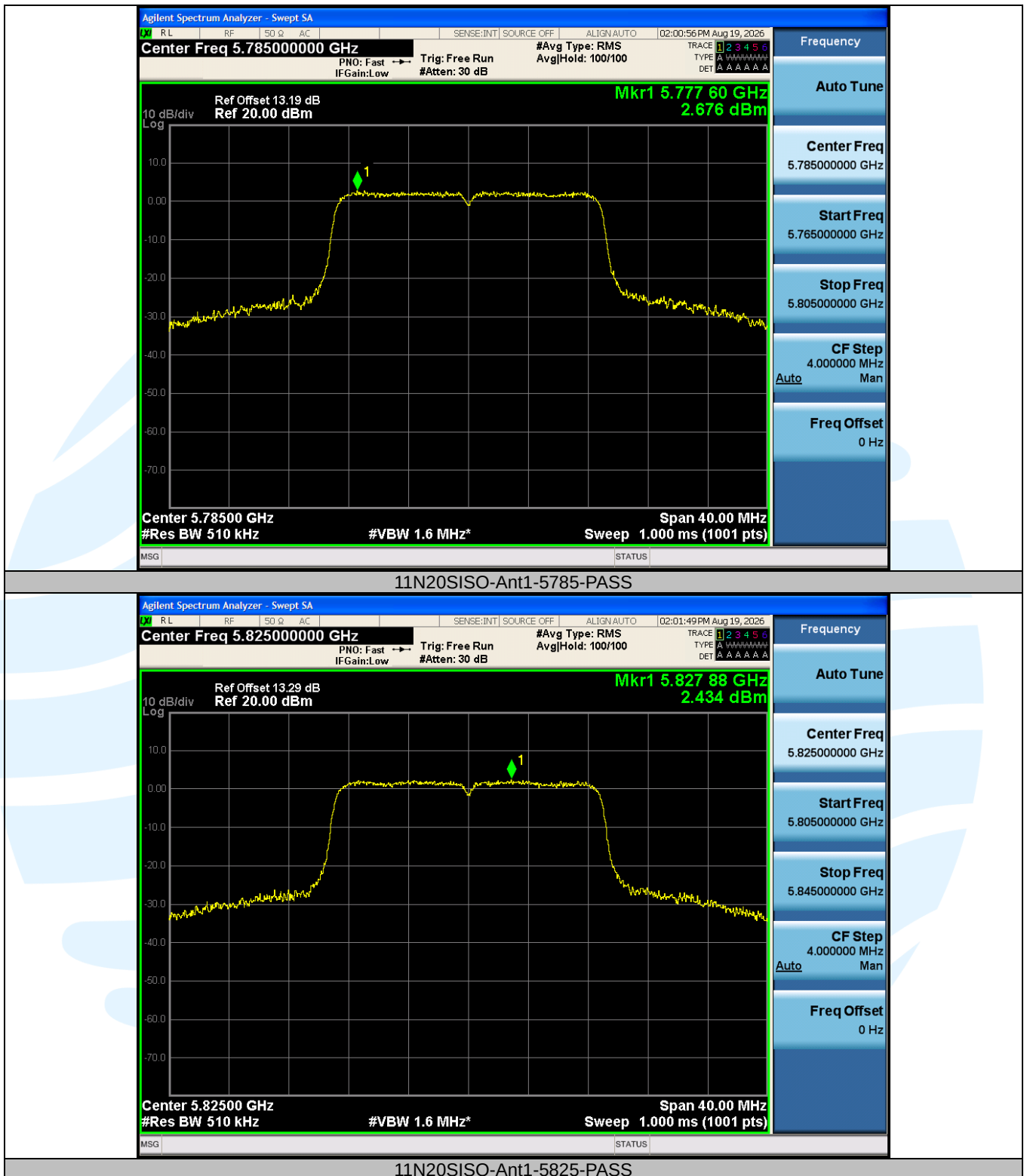
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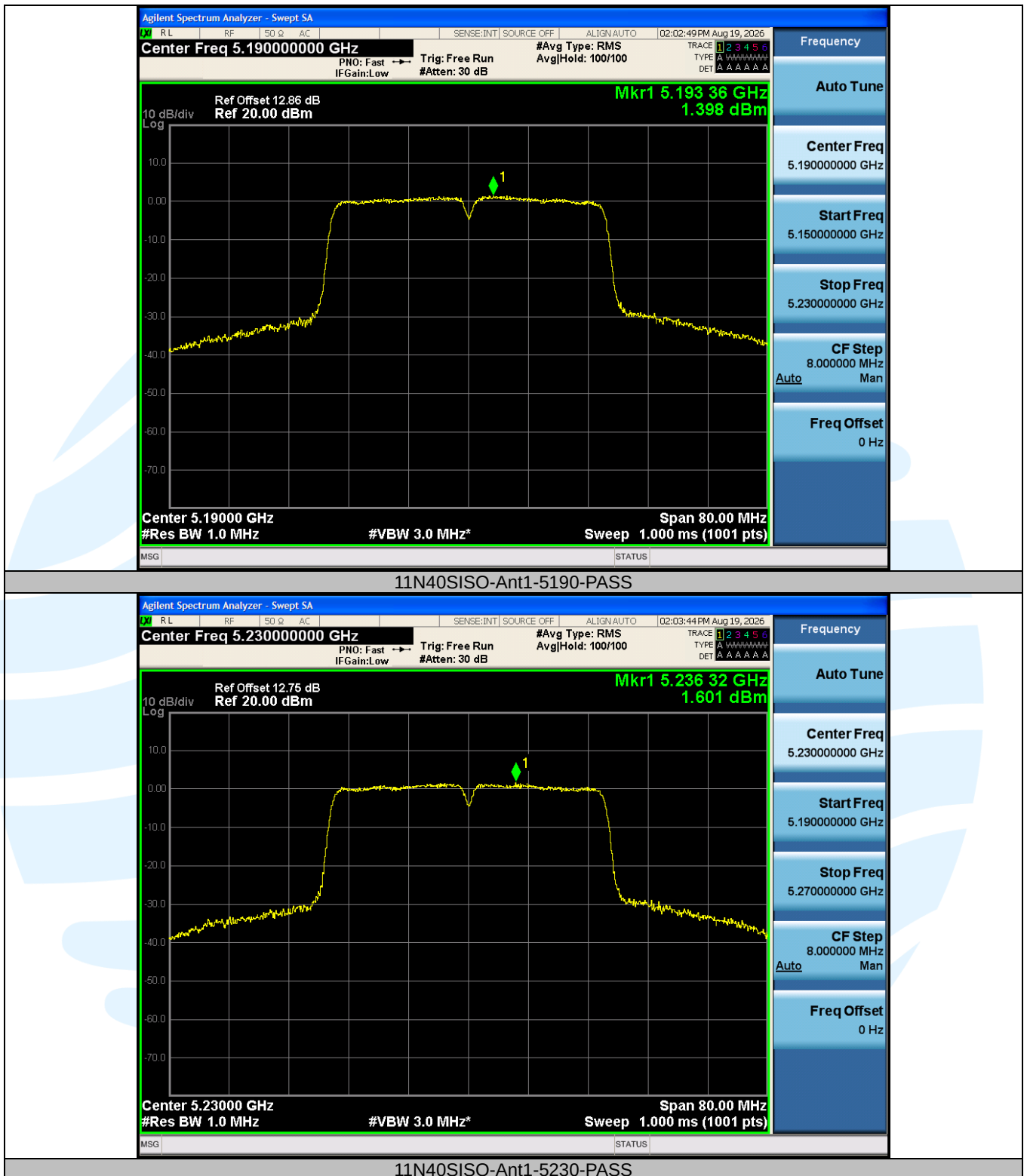
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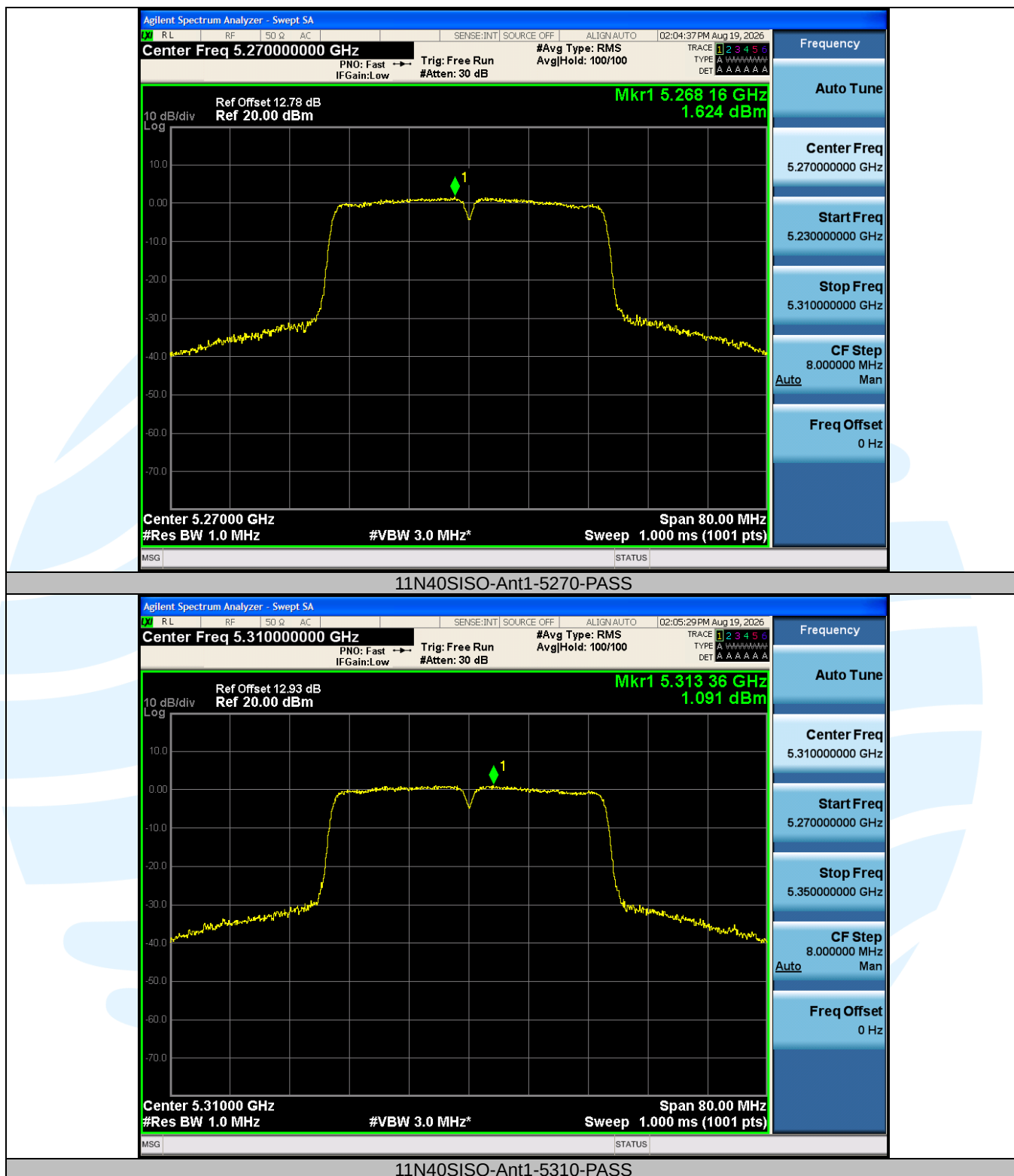
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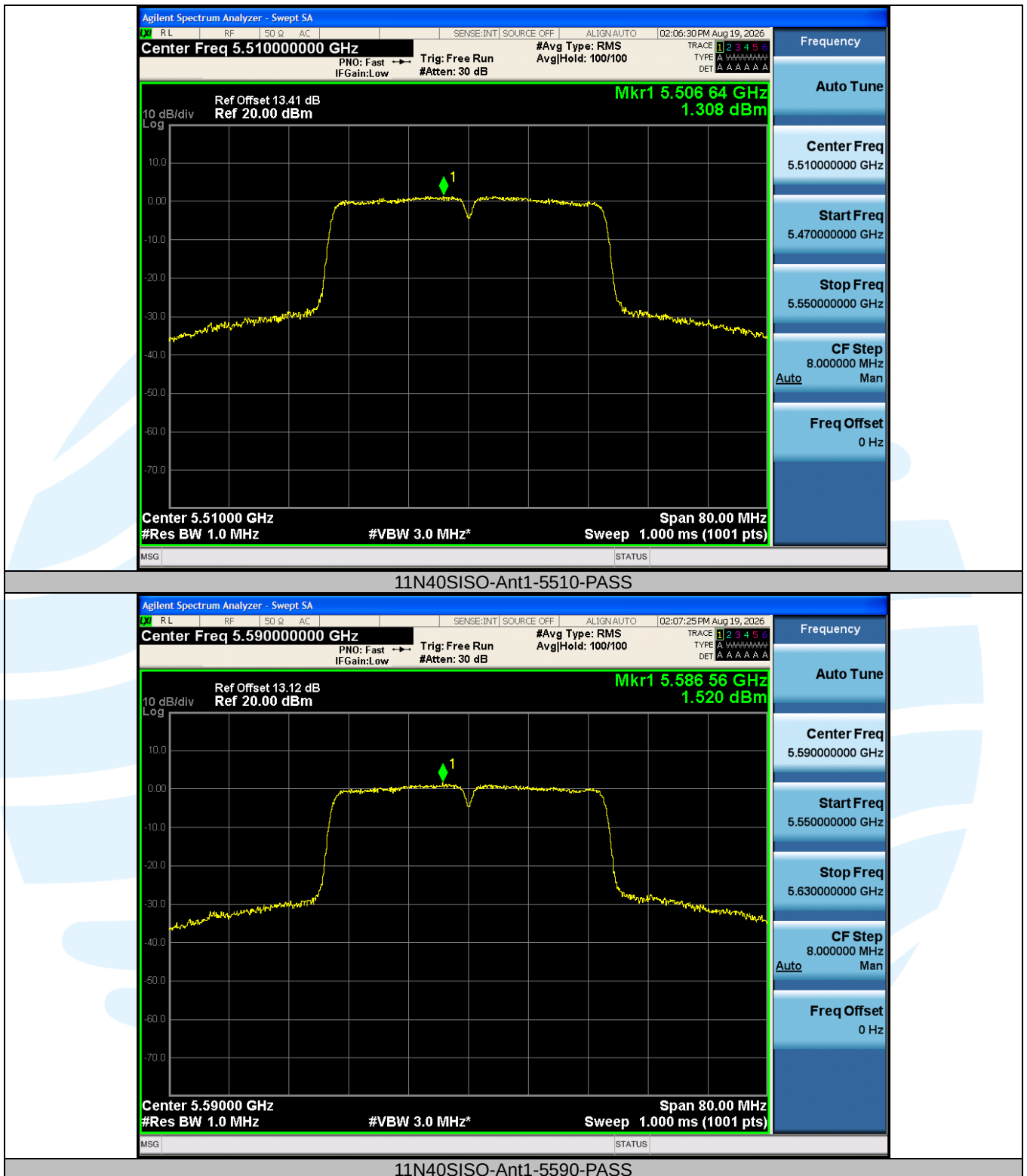
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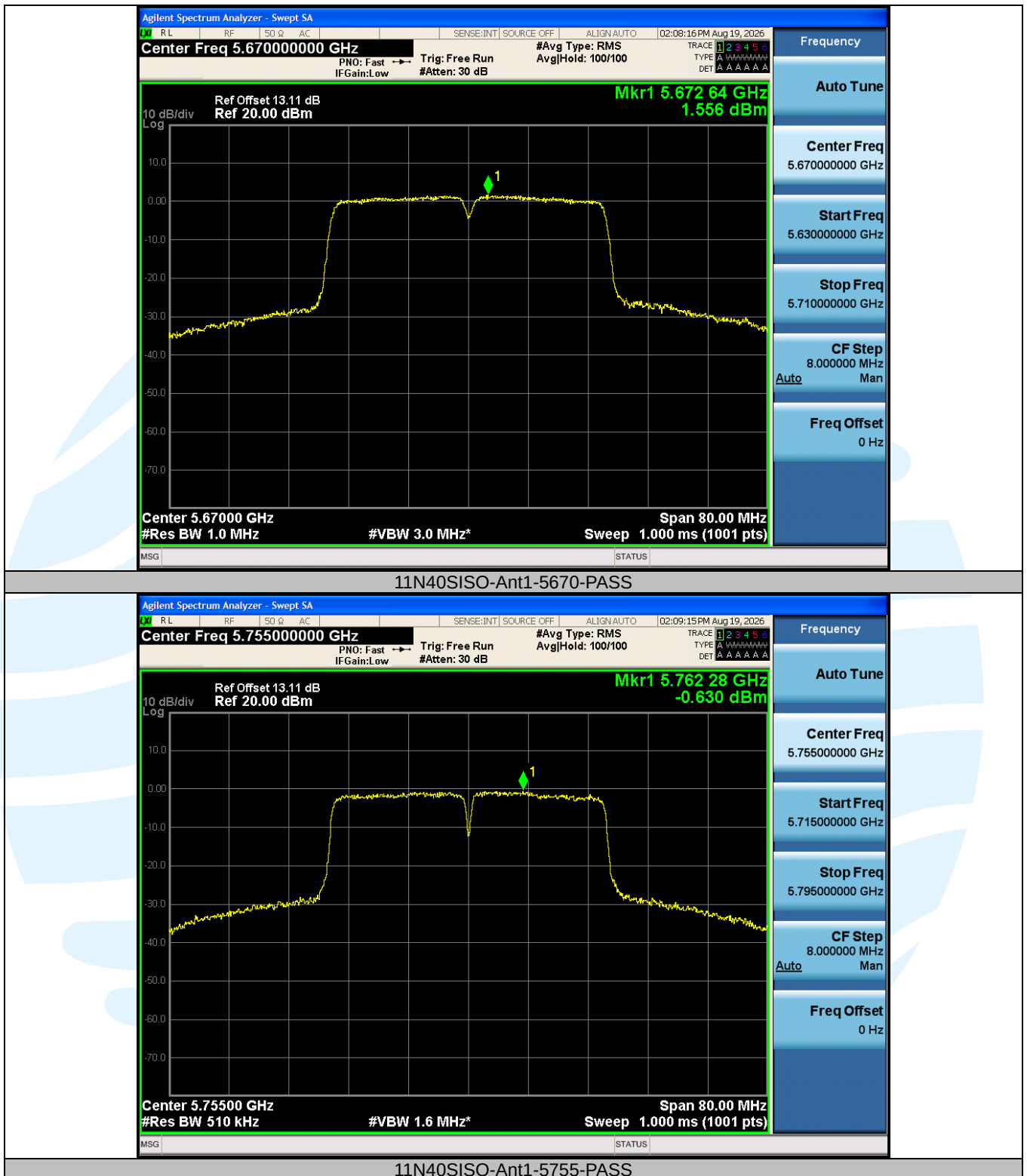
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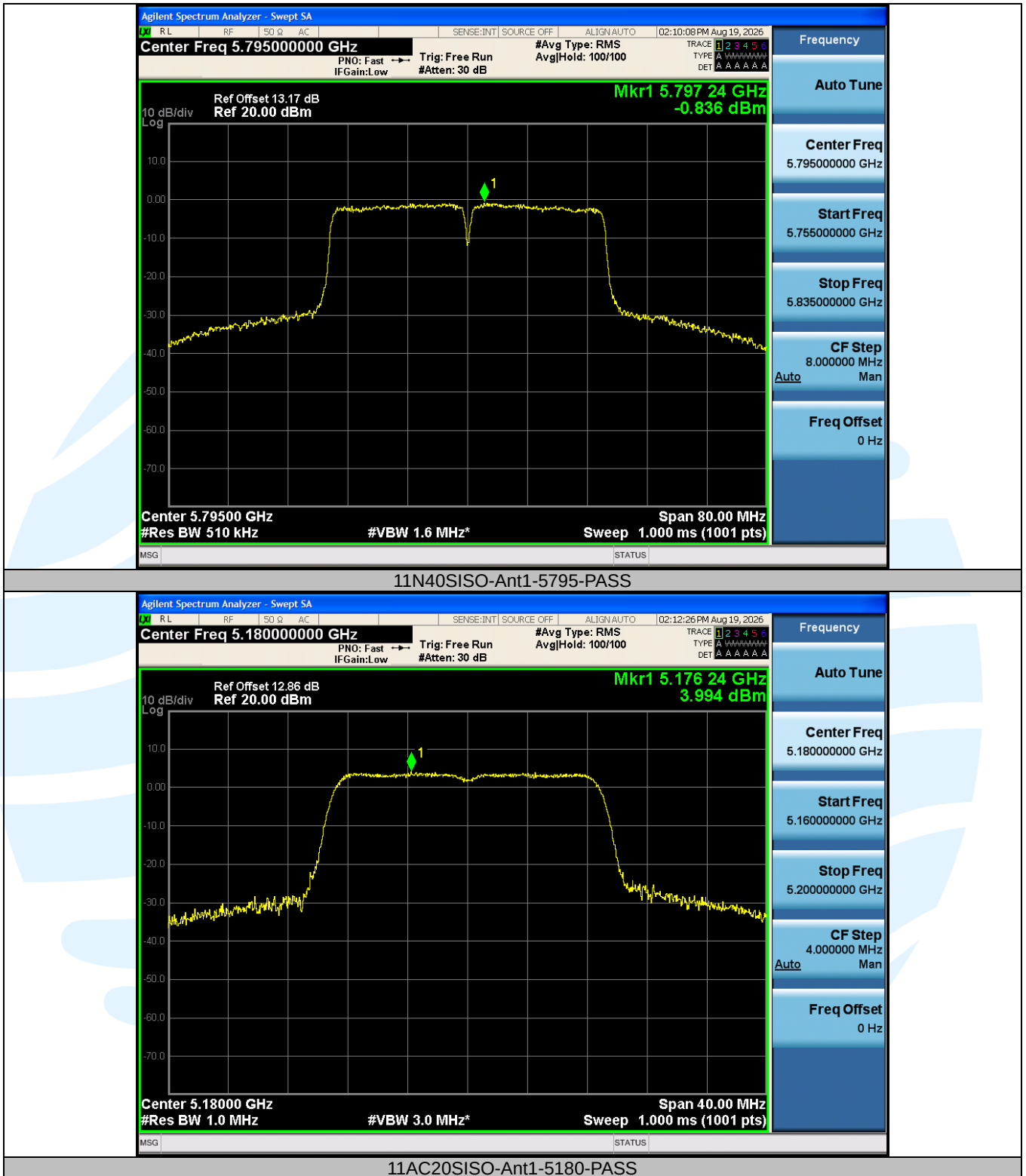
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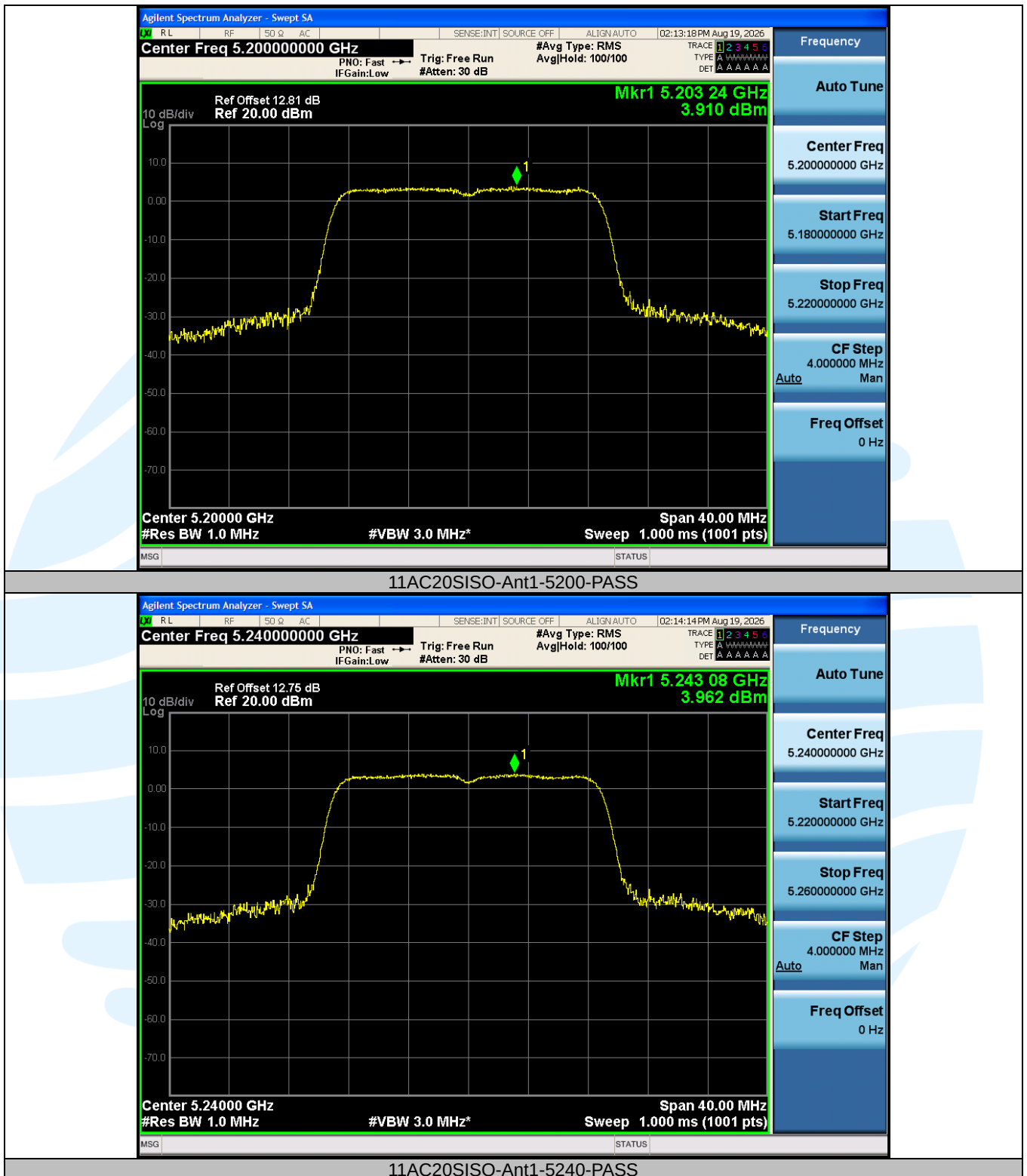
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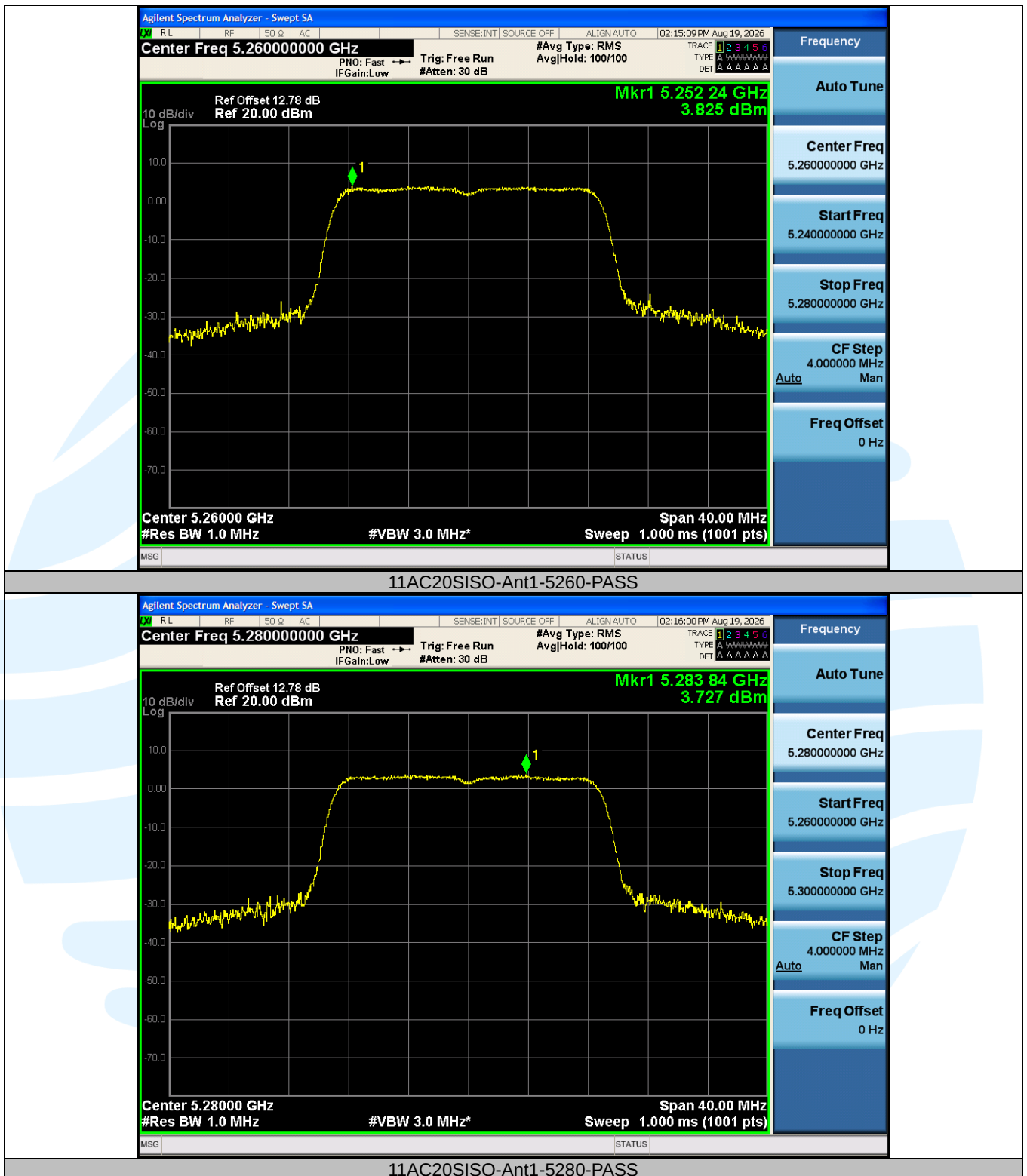
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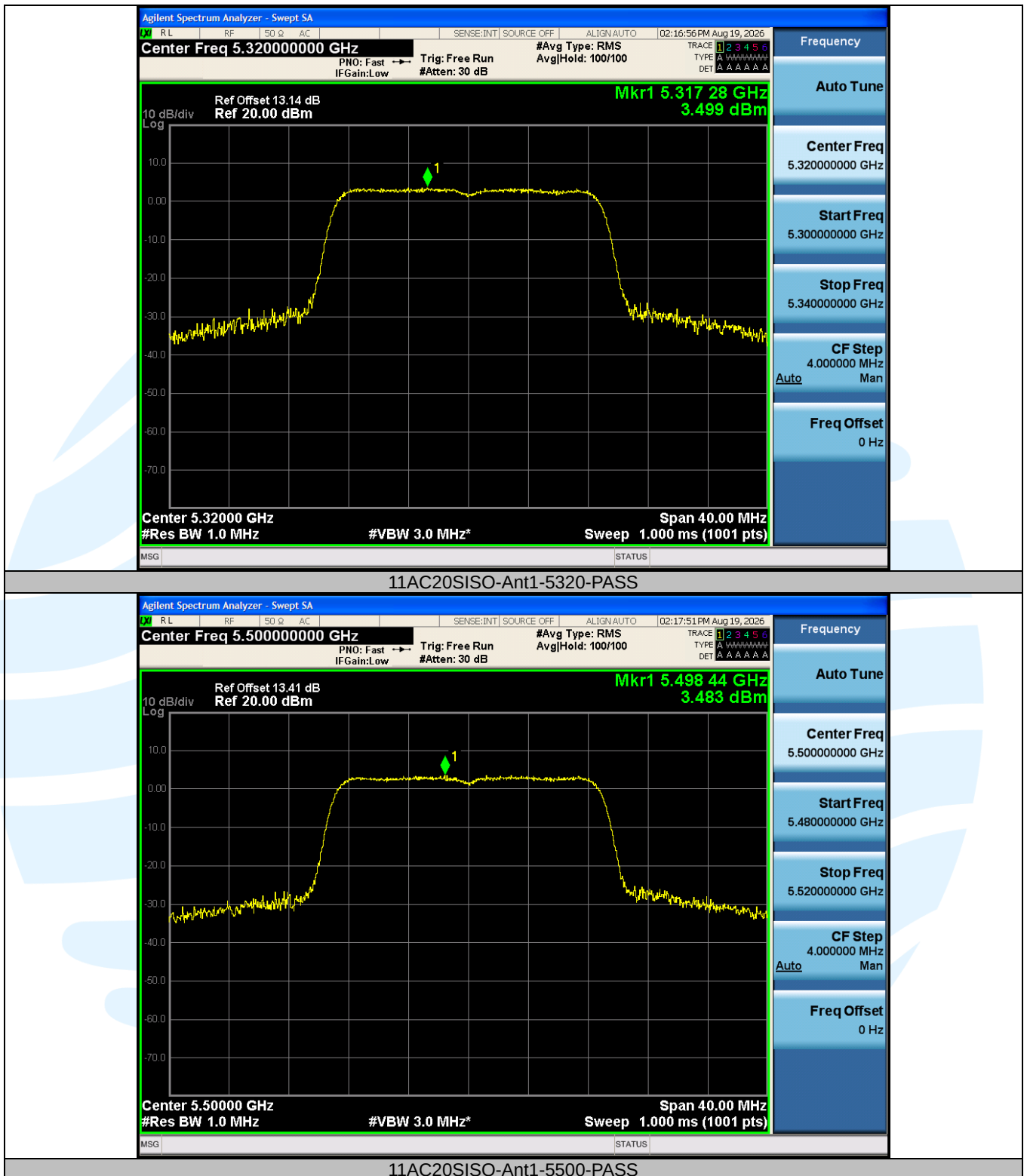
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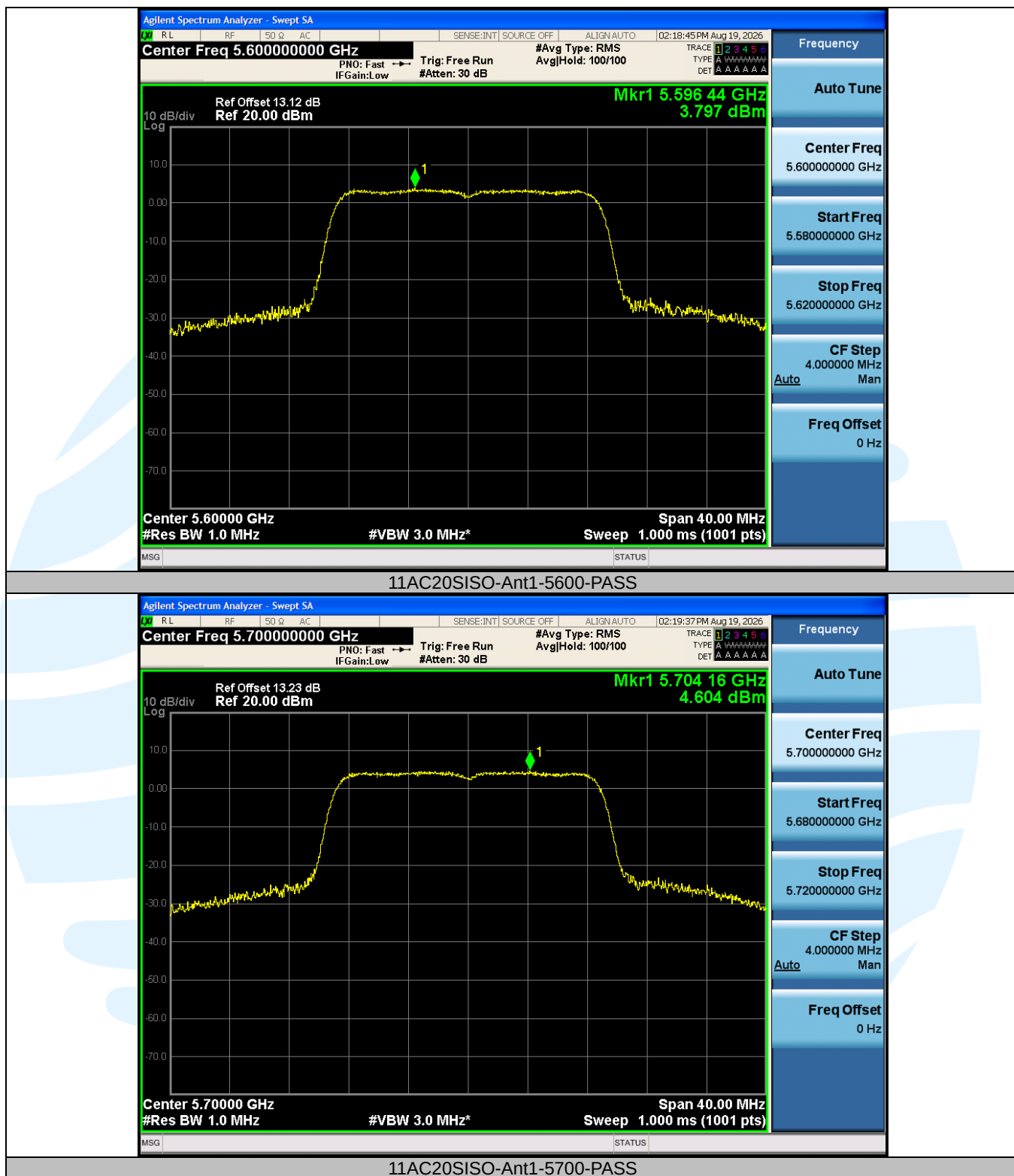
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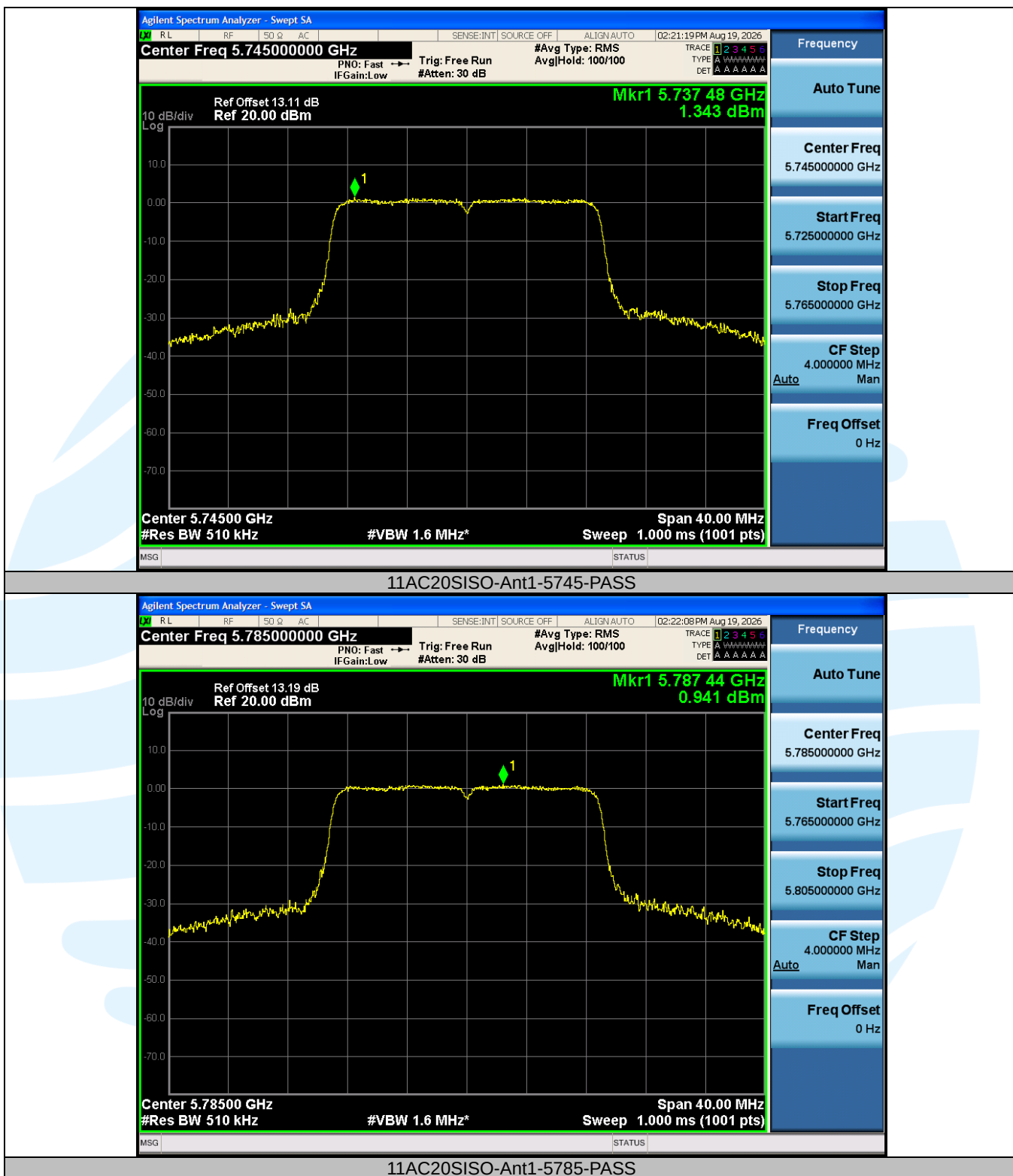
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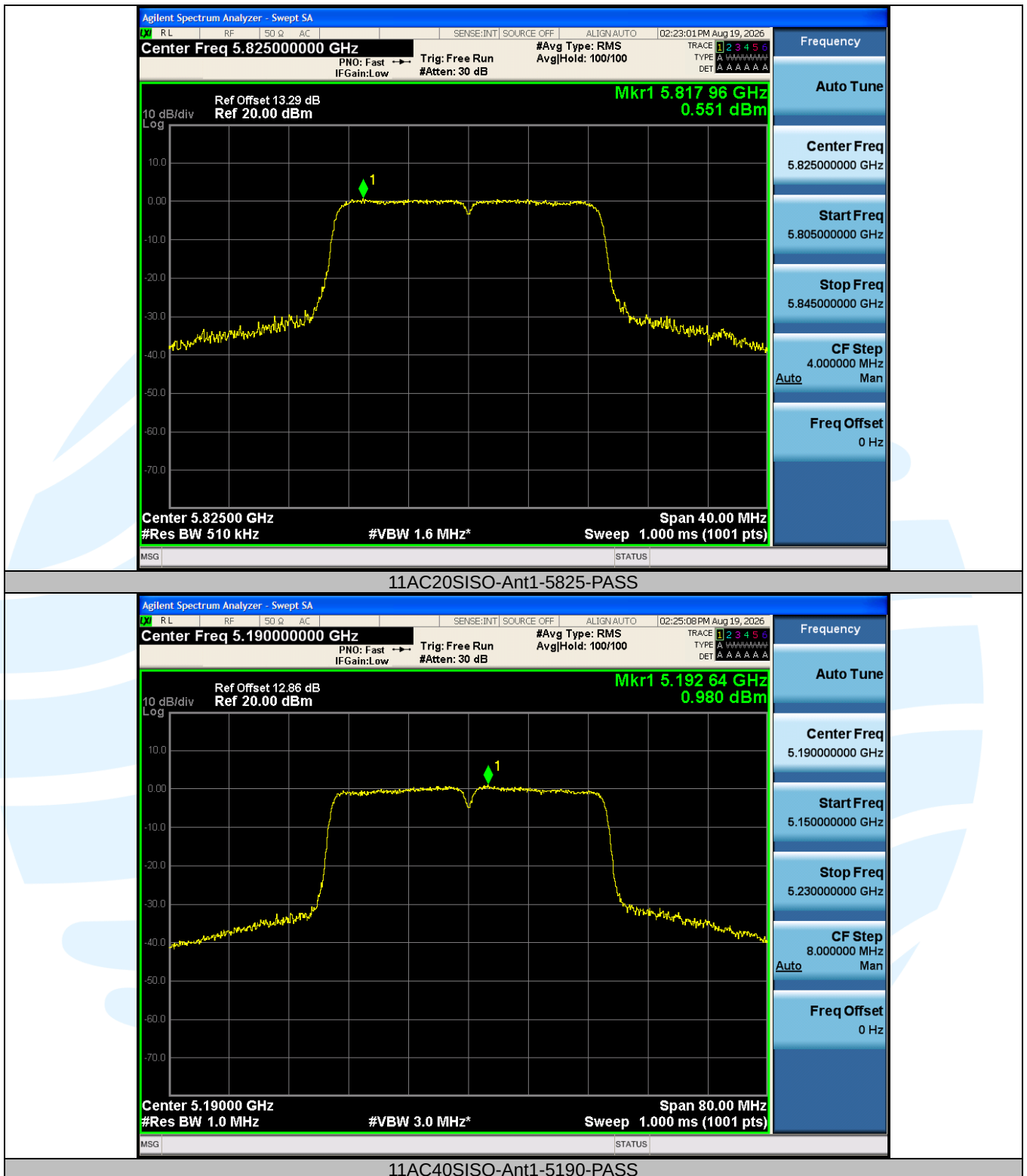
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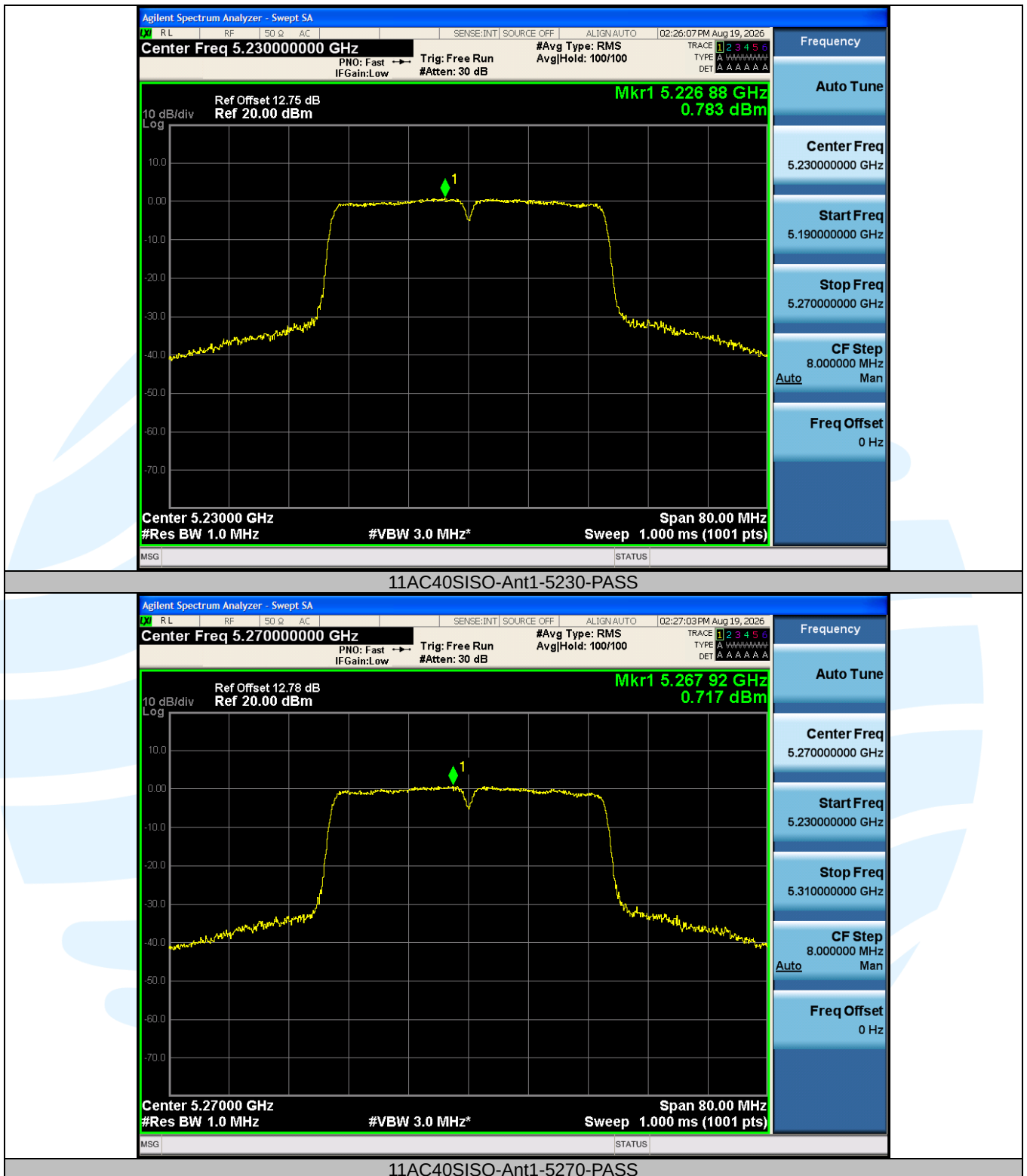
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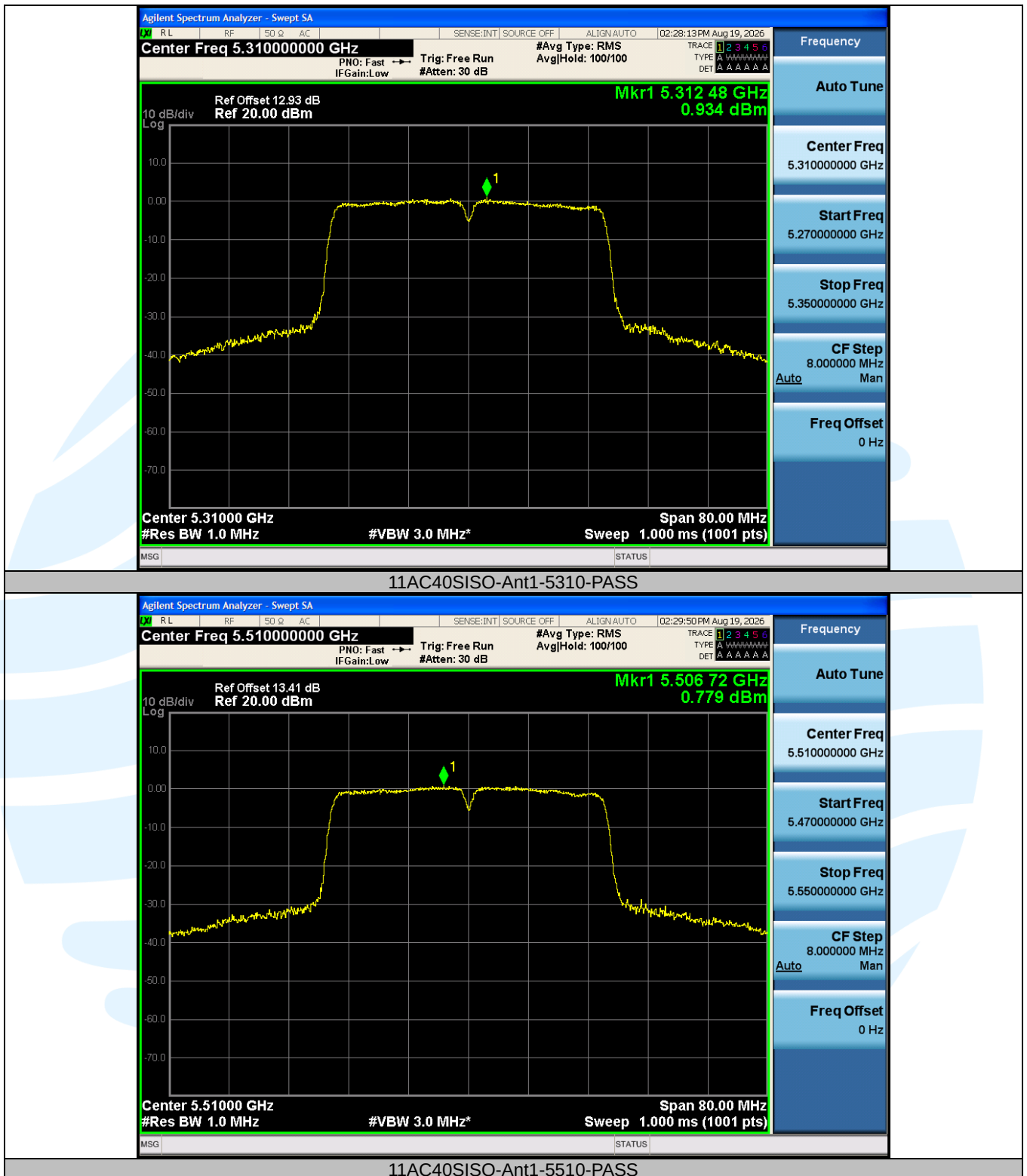
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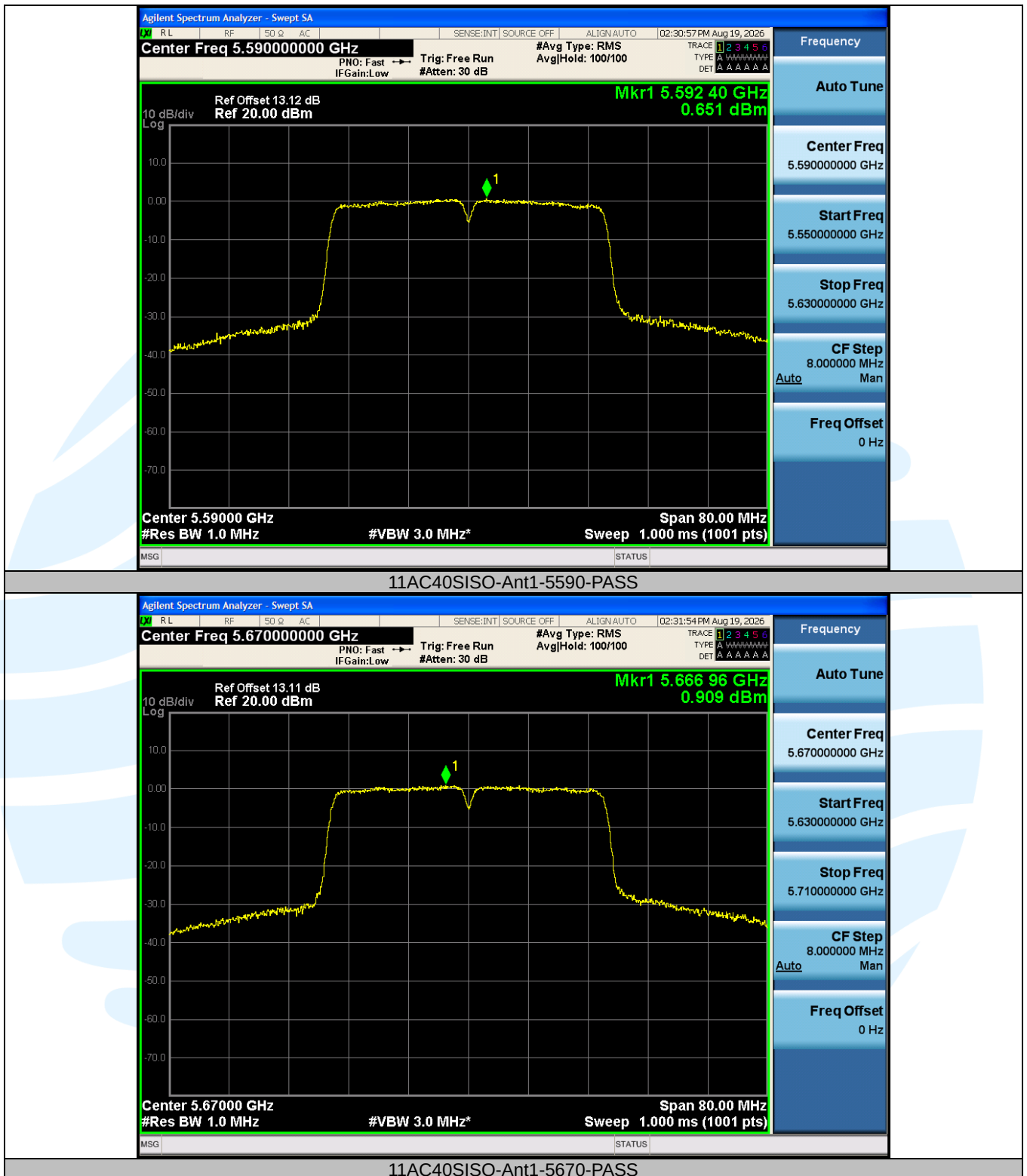
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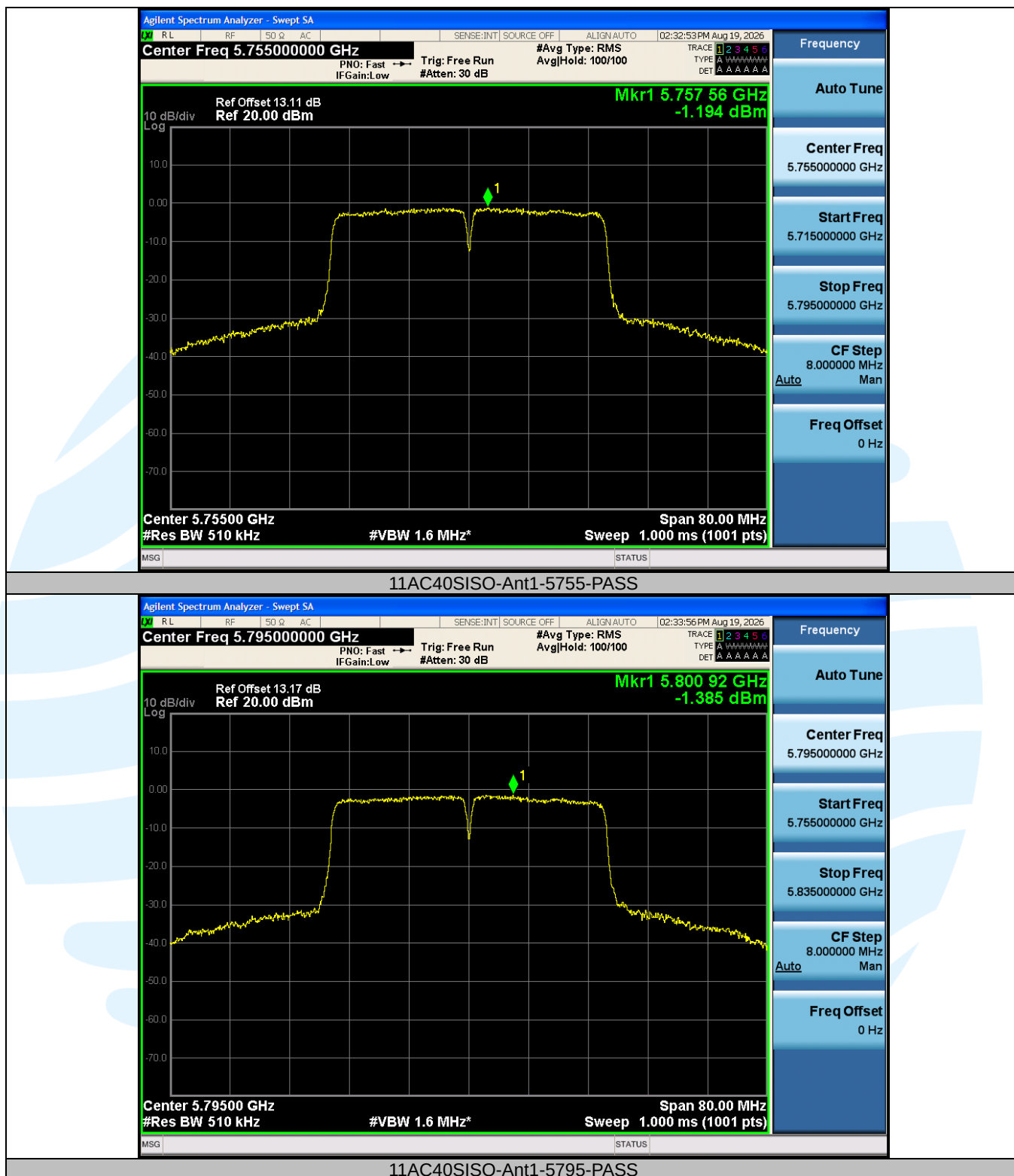
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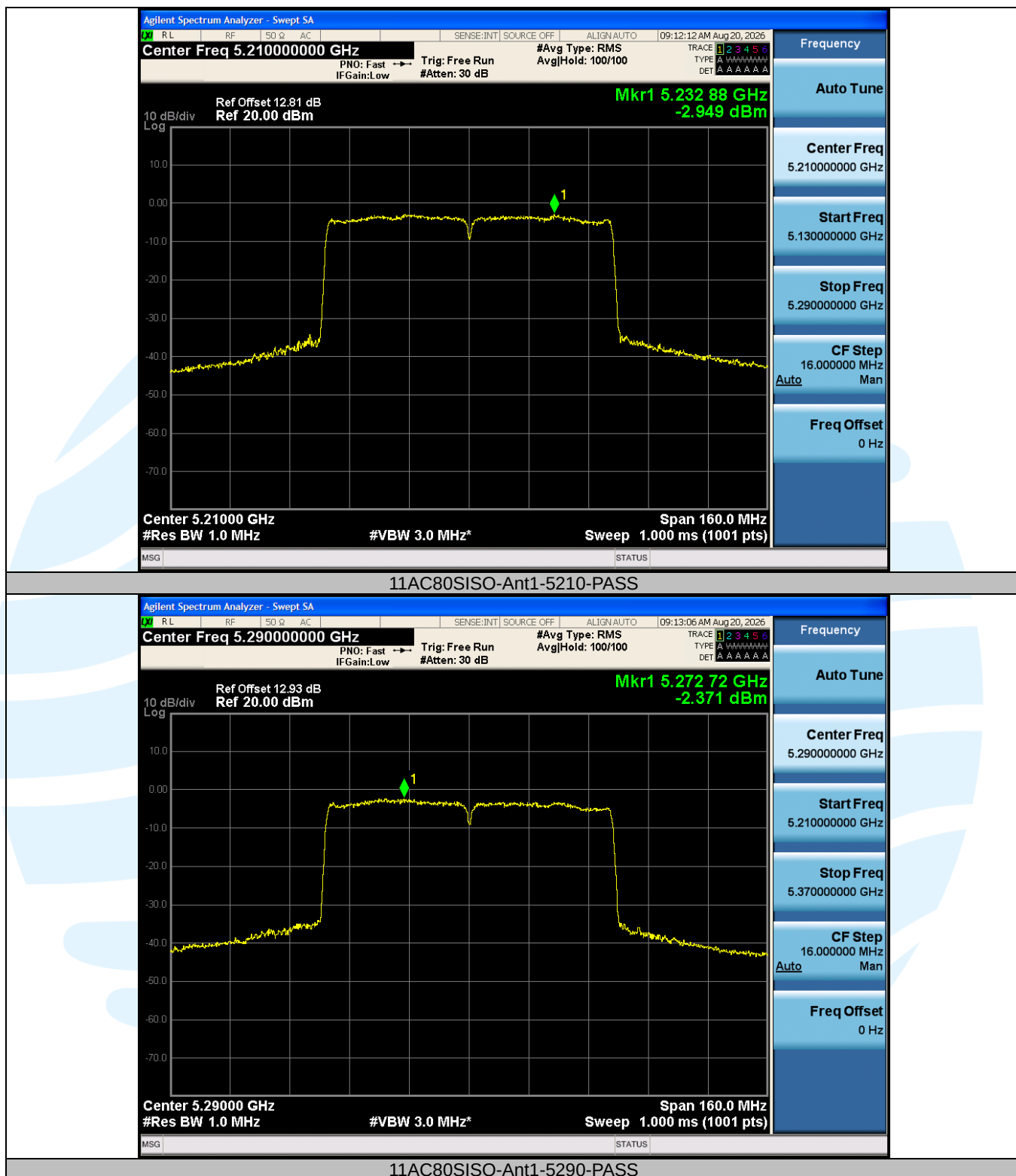
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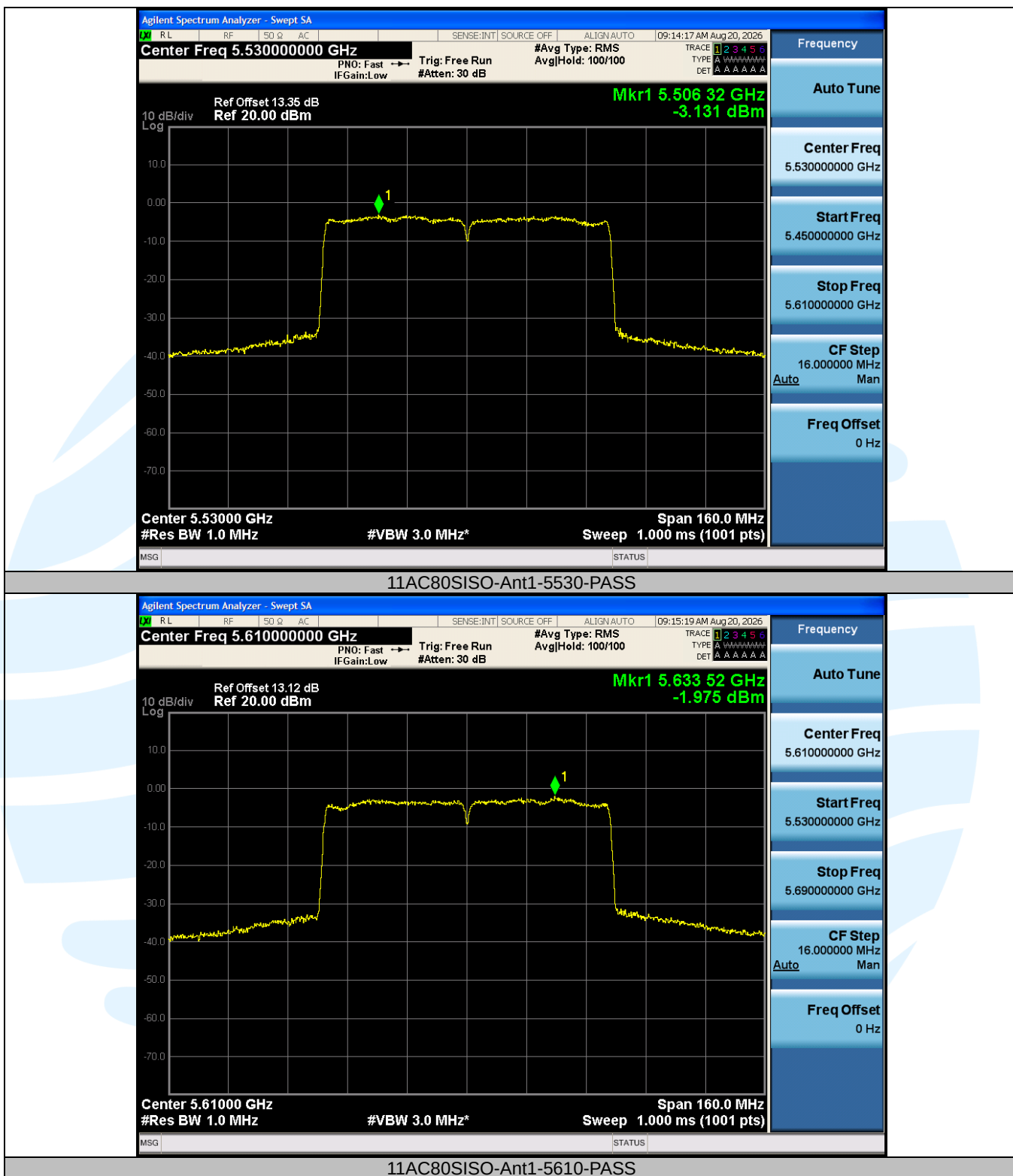
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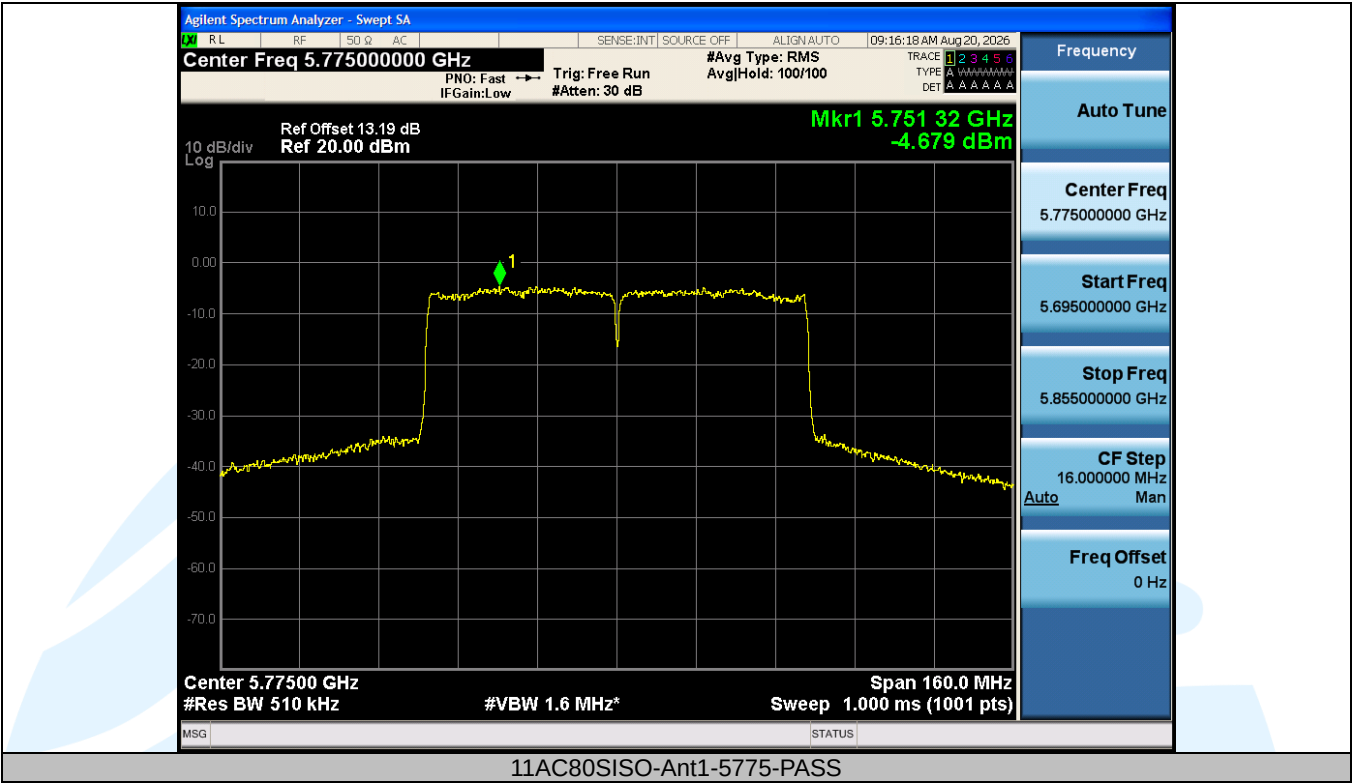
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5.8 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)
FCC 47 CFR Part 15 Subpart C Section 15.209/205

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

2. Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General U-NII Test Procedures New Rules v01r04	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
FCC Part 15.407 (b)(1)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(2)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
FCC Part 15.407 (b)(4)	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dBμV/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

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UTTR-RF-FCCPART15.407-V1.2

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

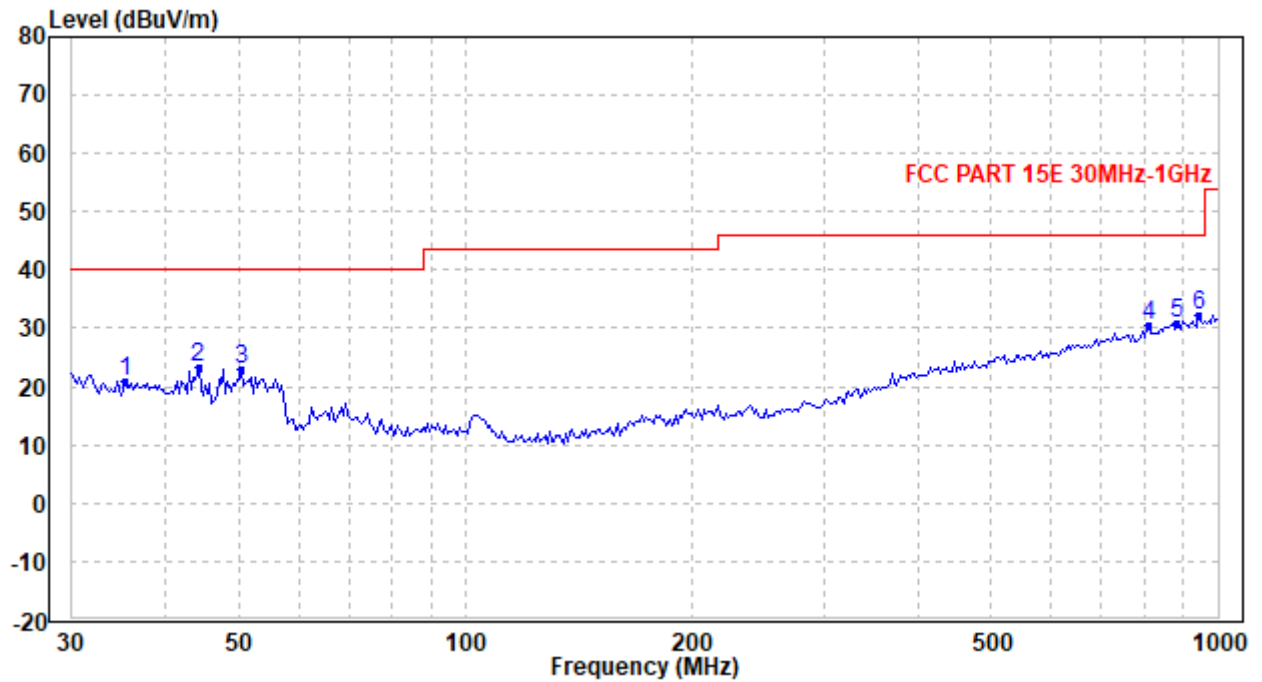
- a) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- b) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- c) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq 98 \%$) or $\geq 1/T$ (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

Radiated Emission Test Data (9 kHz ~ 30 MHz):
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):
Worst-Case Configuration
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.263	27.96	-7.03	20.93	40.00	-19.07	Peak
2	44.154	36.02	-12.84	23.18	40.00	-16.82	Peak
3	50.461	37.06	-14.19	22.87	40.00	-17.13	Peak
4	809.924	27.56	2.81	30.37	46.00	-15.63	Peak
5	881.184	26.84	3.99	30.83	46.00	-15.17	Peak
6	945.334	27.50	4.82	32.32	46.00	-13.68	Peak

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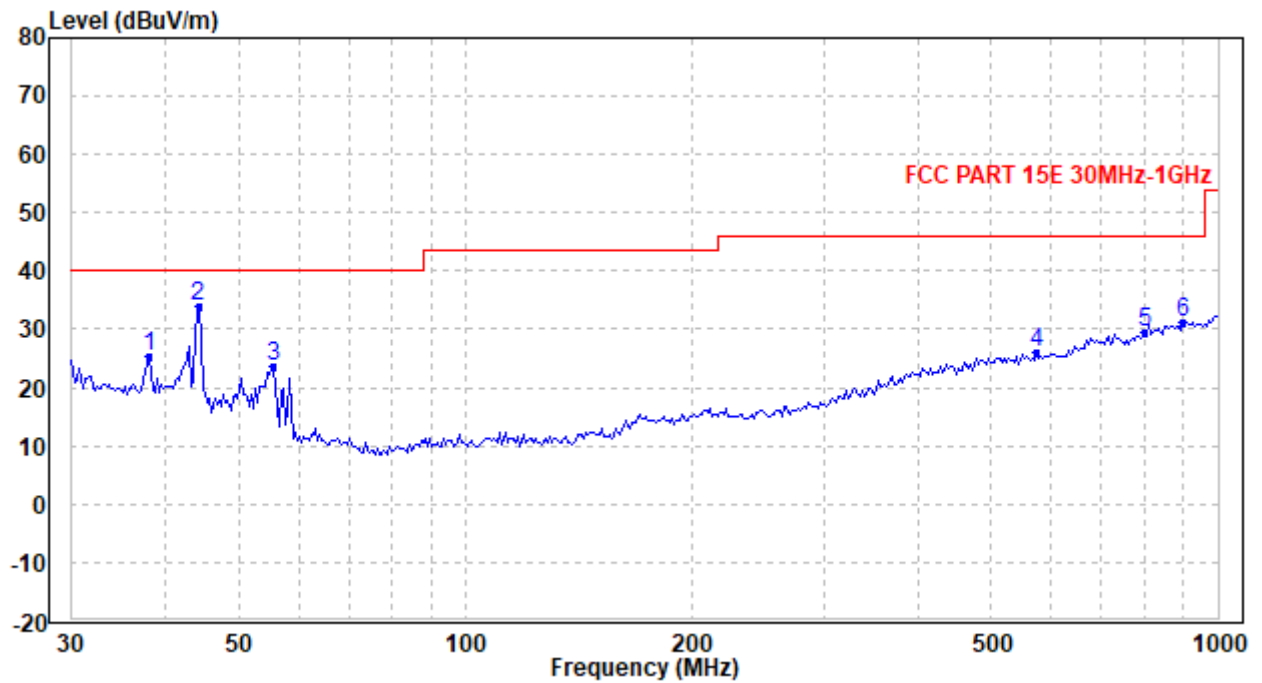
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.096	33.04	-7.77	25.27	40.00	-14.73	Peak
2	44.154	46.72	-12.84	33.88	40.00	-6.12	Peak
3	55.678	40.78	-17.04	23.74	40.00	-16.26	Peak
4	573.988	27.59	-1.70	25.89	46.00	-20.11	Peak
5	798.620	26.86	2.51	29.37	46.00	-16.63	Peak
6	899.958	26.93	4.33	31.26	46.00	-14.74	Peak

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Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
5G_A_5180 MHz 10360 MHz 15540 MHz								
1	10360	46.72	4.78	51.50	54.00	-2.50	Average	Horizontal
2	10360	65.56	4.78	70.34	74.00	-3.66	Peak	Horizontal
3	15540	31.06	8.63	39.69	54.00	-14.31	Average	Horizontal
4	15540	49.14	8.63	57.77	74.00	-16.23	Peak	Horizontal
5	10360	42.25	4.78	47.03	54.00	-6.97	Average	Vertical
6	10360	59.97	4.78	64.75	74.00	-9.25	Peak	Vertical
7	15540	31.02	8.63	39.65	54.00	-14.35	Average	Vertical
8	15540	42.88	8.63	51.51	74.00	-22.49	Peak	Vertical
5G_A_5200 MHz 10400 MHz 15600 MHz								
1	10400	46.19	4.83	51.02	54.00	-2.98	Average	Horizontal
2	10400	65.94	4.83	70.77	74.00	-3.23	Peak	Horizontal
3	15600	31.30	8.51	39.81	54.00	-14.19	Average	Horizontal
4	15600	45.10	8.51	53.61	74.00	-20.39	Peak	Horizontal
5	10400	41.65	4.83	46.48	54.00	-7.52	Average	Vertical
6	10400	59.77	4.83	64.60	74.00	-9.40	Peak	Vertical
7	15600	31.05	8.51	39.56	54.00	-14.44	Average	Vertical
8	15600	43.18	8.51	51.69	74.00	-22.31	Peak	Vertical
5G_A_5240 MHz 10480 MHz 15720 MHz								
1	10480	45.08	4.94	50.02	54.00	-3.98	Average	Horizontal
2	10480	62.72	4.94	67.66	74.00	-6.34	Peak	Horizontal
3	15720	31.45	8.26	39.71	54.00	-14.29	Average	Horizontal
4	15720	43.42	8.26	51.68	74.00	-22.32	Peak	Horizontal
5	10480	40.72	4.94	45.66	54.00	-8.34	Average	Vertical
6	10480	59.55	4.94	64.49	74.00	-9.51	Peak	Vertical
7	15720	31.49	8.26	39.75	54.00	-14.25	Average	Vertical
8	15720	43.81	8.26	52.07	74.00	-21.93	Peak	Vertical
5G_A_5260 MHz 10520 MHz 15780 MHz								
1	10520	43.90	4.95	48.85	54.00	-5.15	Average	Horizontal
2	10520	61.57	4.95	66.52	74.00	-7.48	Peak	Horizontal
3	15780	32.05	8.15	40.20	54.00	-13.80	Average	Horizontal
4	15780	46.79	8.15	54.94	74.00	-19.06	Peak	Horizontal
5	10520	39.63	4.95	44.58	54.00	-9.42	Average	Vertical
6	10520	56.29	4.95	61.24	74.00	-12.76	Peak	Vertical
7	15780	31.60	8.15	39.75	54.00	-14.25	Average	Vertical
8	15780	44.60	8.15	52.75	74.00	-21.25	Peak	Vertical
5G_A_5280 MHz 10560 MHz 15840 MHz								
1	10560	45.85	4.93	50.78	54.00	-3.22	Average	Horizontal
2	10560	62.44	4.93	67.37	74.00	-6.63	Peak	Horizontal
3	15840	30.95	8.02	38.97	54.00	-15.03	Average	Horizontal
4	15840	43.63	8.02	51.65	74.00	-22.35	Peak	Horizontal
5	10560	40.60	4.93	45.53	54.00	-8.47	Average	Vertical
6	10560	56.18	4.93	61.11	74.00	-12.89	Peak	Vertical
7	15840	30.95	8.02	38.97	54.00	-15.03	Average	Vertical
8	15840	44.04	8.02	52.06	74.00	-21.94	Peak	Vertical
5G_A_5320 MHz 10640 MHz 15960 MHz								
1	10640	42.73	4.85	47.58	54.00	-6.42	Average	Horizontal
2	10640	59.87	4.85	64.72	74.00	-9.28	Peak	Horizontal
3	15960	31.17	7.78	38.95	54.00	-15.05	Average	Horizontal
4	15960	47.52	7.78	55.30	74.00	-18.70	Peak	Horizontal
5	10640	38.15	4.85	43.00	54.00	-11.00	Average	Vertical
6	10640	56.07	4.85	60.92	74.00	-13.08	Peak	Vertical
7	15960	30.54	7.78	38.32	54.00	-15.68	Average	Vertical

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