

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 ≥ 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 ≥ 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:

Antenna gain and the maximum output power limit.

Frequency Band (MHz)	Antenna Gain (dBi)		Correlated Directional gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
	Ant. 5 (Chain 0)	Ant. 6(Chain 1)		
U-NII-1	0.42	0.97	3.71	11.0
U-NII-2A	0.42	0.97	3.71	11.0
U-NII-2C	-0.91	-0.02	2.56	11.0
U-NII-3	-1.12	-0.62	2.14	30.0

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Test Mode	RU&Index	Freq. [MHz]	PSD Meas. Value [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]		PSD Corr'd value [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]			Limit [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]	Verdict
			Chain 0	Chain 1	Chain 0	Chain 1	Total		
11A	--	5180	-0.76	0.76	-0.72	0.80	--	≤11.00	PASS
11A	--	5200	-0.10	1.82	-0.06	1.86	--	≤11.00	PASS
11A	--	5240	0.90	1.88	0.94	1.92	--	≤11.00	PASS
11A	--	5260	1.19	2.13	1.23	2.17	--	≤11.00	PASS
11A	--	5280	2.01	2.02	2.05	2.06	--	≤11.00	PASS
11A	--	5320	1.96	2.34	2.00	2.38	--	≤11.00	PASS
11A	--	5500	1.53	2.17	1.57	2.21	--	≤11.00	PASS
11A	--	5600	1.23	2.63	1.27	2.67	--	≤11.00	PASS
11A	--	5700	1.61	1.89	1.65	1.93	--	≤11.00	PASS
11A	--	5745	-2.666	-2.621	-0.41	-0.36	--	≤30.00	PASS
11A	--	5785	-2.526	-2.655	-0.27	-0.40	--	≤30.00	PASS
11A	--	5825	-2.810	-2.023	-0.55	0.24	--	≤30.00	PASS
11N20MIMO	--	5180	-2.70	-4.15	-2.68	-4.13	-0.33	≤11.00	PASS
11N20MIMO	--	5200	-2.43	-3.48	-2.41	-3.46	0.11	≤11.00	PASS
11N20MIMO	--	5240	-1.25	-2.59	-1.23	-2.57	1.16	≤11.00	PASS
11N20MIMO	--	5260	-1.35	-2.26	-1.33	-2.24	1.25	≤11.00	PASS
11N20MIMO	--	5280	-0.82	-1.66	-0.80	-1.64	1.81	≤11.00	PASS
11N20MIMO	--	5320	-1.39	-1.16	-1.37	-1.14	1.76	≤11.00	PASS
11N20MIMO	--	5500	-2.22	-1.14	-2.20	-1.12	1.38	≤11.00	PASS
11N20MIMO	--	5600	-0.75	-2.44	-0.73	-2.42	1.52	≤11.00	PASS
11N20MIMO	--	5700	0.16	-2.99	0.18	-2.97	1.89	≤11.00	PASS
11N20MIMO	--	5745	-5.149	-7.496	-2.89	-5.24	-0.90	≤30.00	PASS
11N20MIMO	--	5785	-5.322	-7.086	-3.06	-4.83	-0.85	≤30.00	PASS
11N20MIMO	--	5825	-5.499	-5.957	-3.24	-3.70	-0.45	≤30.00	PASS
11N40MIMO	--	5190	-5.96	-7.80	-5.94	-7.78	-3.75	≤11.00	PASS
11N40MIMO	--	5230	-4.82	-7.03	-4.80	-7.01	-2.76	≤11.00	PASS
11N40MIMO	--	5270	-4.11	-6.09	-4.09	-6.07	-1.96	≤11.00	PASS
11N40MIMO	--	5310	-4.61	-5.99	-4.59	-5.97	-2.22	≤11.00	PASS
11N40MIMO	--	5510	-5.18	-4.97	-5.16	-4.95	-2.04	≤11.00	PASS
11N40MIMO	--	5590	-4.13	-6.65	-4.11	-6.63	-2.18	≤11.00	PASS
11N40MIMO	--	5670	-3.81	-7.33	-3.79	-7.31	-2.19	≤11.00	PASS
11N40MIMO	--	5755	-8.147	-11.198	-5.89	-8.94	-4.14	≤30.00	PASS
11N40MIMO	--	5795	-8.373	-11.179	-6.11	-8.92	-4.28	≤30.00	PASS
11AC20MIMO	--	5180	-3.01	-4.57	-2.99	-4.55	-0.69	≤11.00	PASS
11AC20MIMO	--	5200	-2.95	-4.49	-2.93	-4.47	-0.62	≤11.00	PASS
11AC20MIMO	--	5240	-1.79	-4.39	-1.77	-4.37	0.13	≤11.00	PASS
11AC20MIMO	--	5260	-1.49	-3.35	-1.47	-3.33	0.71	≤11.00	PASS
11AC20MIMO	--	5280	-0.96	-2.93	-0.94	-2.91	1.20	≤11.00	PASS
11AC20MIMO	--	5320	-1.65	-2.10	-1.63	-2.08	1.16	≤11.00	PASS
11AC20MIMO	--	5500	-1.93	-0.78	-1.91	-0.76	1.71	≤11.00	PASS
11AC20MIMO	--	5600	-0.68	-2.92	-0.66	-2.90	1.37	≤11.00	PASS
11AC20MIMO	--	5700	0.95	-3.40	0.97	-3.38	2.33	≤11.00	PASS
11AC20MIMO	--	5745	-4.547	-8.324	-2.29	-6.07	-0.77	≤30.00	PASS
11AC20MIMO	--	5785	-4.758	-7.553	-2.50	-5.29	-0.67	≤30.00	PASS
11AC20MIMO	--	5825	-5.477	-6.939	-3.22	-4.68	-0.88	≤30.00	PASS
11AC40MIMO	--	5190	-6.28	-7.84	-6.26	-7.82	-3.96	≤11.00	PASS
11AC40MIMO	--	5230	-4.82	-6.64	-4.80	-6.62	-2.61	≤11.00	PASS
11AC40MIMO	--	5270	-4.15	-5.63	-4.13	-5.61	-1.80	≤11.00	PASS
11AC40MIMO	--	5310	-4.58	-5.51	-4.56	-5.49	-1.99	≤11.00	PASS
11AC40MIMO	--	5510	-4.93	-4.56	-4.91	-4.54	-1.71	≤11.00	PASS
11AC40MIMO	--	5590	-3.70	-5.81	-3.68	-5.79	-1.60	≤11.00	PASS
11AC40MIMO	--	5670	-2.71	-6.45	-2.69	-6.43	-1.16	≤11.00	PASS
11AC40MIMO	--	5755	-8.403	-10.947	-6.14	-8.69	-4.22	≤30.00	PASS
11AC40MIMO	--	5795	-8.106	-9.976	-5.85	-7.72	-3.67	≤30.00	PASS
11AC80MIMO	--	5210	-8.17	-9.37	-8.15	-9.35	-5.70	≤11.00	PASS

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Test Mode	RU&Index	Freq. [MHz]	PSD Meas. Value [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]		PSD Corr'd value [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]			Limit [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]	Verdict
			Chain 0	Chain 1	Chain 0	Chain 1	Total		
11AC80MIMO	--	5290	-6.46	-8.38	-6.44	-8.36	-4.28	≤11.00	PASS
11AC80MIMO	--	5530	-7.37	-8.12	-7.35	-8.10	-4.70	≤11.00	PASS
11AC80MIMO	--	5610	-6.19	-8.00	-6.17	-7.98	-3.97	≤11.00	PASS
11AC80MIMO	--	5775	-11.166	-13.302	-8.91	-11.04	-6.84	≤30.00	PASS
11AC160MIMO	--	5250_U NII-1	-7.80	-9.18	-7.79	-9.17	-5.42	≤11.00	PASS
11AC160MIMO	--	5250_U NII-2A	-7.80	-9.59	-7.79	-9.58	-5.58	≤11.00	PASS
11AC160MIMO	--	5570	-8.30	-10.47	-8.29	-10.46	-6.23	≤11.00	PASS
11AX20MIMO	SU	5180	-3.46	-4.96	-3.44	-4.94	-1.12	≤11.00	PASS
11AX20MIMO	SU	5200	-3.55	-4.57	-3.53	-4.55	-1.00	≤11.00	PASS
11AX20MIMO	SU	5240	-1.84	-3.79	-1.82	-3.77	0.32	≤11.00	PASS
11AX20MIMO	SU	5260	-1.52	-2.80	-1.50	-2.78	0.92	≤11.00	PASS
11AX20MIMO	SU	5280	-1.28	-2.82	-1.26	-2.80	1.05	≤11.00	PASS
11AX20MIMO	SU	5320	-1.90	-1.85	-1.88	-1.83	1.16	≤11.00	PASS
11AX20MIMO	SU	5500	-2.86	-2.09	-2.84	-2.07	0.57	≤11.00	PASS
11AX20MIMO	SU	5600	-1.11	-3.07	-1.09	-3.05	1.05	≤11.00	PASS
11AX20MIMO	SU	5700	-0.20	-3.73	-0.18	-3.71	1.41	≤11.00	PASS
11AX20MIMO	SU	5745	-5.525	-8.497	-3.27	-6.24	-1.49	≤30.00	PASS
11AX20MIMO	SU	5785	-5.856	-7.708	-3.60	-5.45	-1.42	≤30.00	PASS
11AX20MIMO	SU	5825	-6.410	-7.058	-4.15	-4.80	-1.45	≤30.00	PASS
11AX40MIMO	SU	5190	-6.09	-7.74	-6.07	-7.72	-3.81	≤11.00	PASS
11AX40MIMO	SU	5230	-5.58	-7.40	-5.56	-7.38	-3.37	≤11.00	PASS
11AX40MIMO	SU	5270	-4.13	-5.76	-4.11	-5.74	-1.84	≤11.00	PASS
11AX40MIMO	SU	5310	-4.66	-5.36	-4.64	-5.34	-1.97	≤11.00	PASS
11AX40MIMO	SU	5510	-5.16	-4.60	-5.14	-4.58	-1.84	≤11.00	PASS
11AX40MIMO	SU	5590	-4.26	-6.47	-4.24	-6.45	-2.20	≤11.00	PASS
11AX40MIMO	SU	5670	-3.47	-7.18	-3.45	-7.16	-1.91	≤11.00	PASS
11AX40MIMO	SU	5755	-8.587	-11.380	-6.33	-9.12	-4.49	≤30.00	PASS
11AX40MIMO	SU	5795	-8.662	-10.654	-6.40	-8.40	-4.28	≤30.00	PASS
11AX80MIMO	SU	5210	-7.91	-8.82	-7.89	-8.80	-5.31	≤11.00	PASS
11AX80MIMO	SU	5290	-6.71	-8.53	-6.69	-8.51	-4.50	≤11.00	PASS
11AX80MIMO	SU	5530	-7.60	-8.16	-7.58	-8.14	-4.84	≤11.00	PASS
11AX80MIMO	SU	5610	-6.27	-7.91	-6.25	-7.89	-3.98	≤11.00	PASS
11AX80MIMO	SU	5775	-11.065	-13.516	-8.81	-11.26	-6.85	≤30.00	PASS
11AX160MIMO	SU	5250_U NII-1	-8.66	-10.14	-8.65	-10.13	-6.32	≤11.00	PASS
11AX160MIMO	SU	5250_U NII-2A	-7.95	-10.02	-7.94	-10.01	-5.84	≤11.00	PASS
11AX160MIMO	SU	5570	-8.40	-10.64	-8.39	-10.63	-6.36	≤11.00	PASS
11AX20MIMO	26RU0	5180	-3.29	-4.38	-3.27	-4.36	-0.77	≤11.00	PASS
11AX20MIMO	52RU37	5180	-2.82	-4.61	-2.80	-4.59	-0.59	≤11.00	PASS
11AX20MIMO	106RU53	5180	-3.65	-4.94	-3.62	-4.91	-1.21	≤11.00	PASS
11AX20MIMO	26RU4	5200	-3.96	-5.35	-3.94	-5.33	-1.57	≤11.00	PASS
11AX20MIMO	52RU39	5200	-3.33	-4.07	-3.31	-4.05	-0.65	≤11.00	PASS
11AX20MIMO	106RU54	5200	-3.98	-5.40	-3.95	-5.37	-1.59	≤11.00	PASS
11AX20MIMO	26RU8	5240	-1.80	-4.11	-1.78	-4.09	0.23	≤11.00	PASS
11AX20MIMO	52RU40	5240	-3.28	-4.95	-3.26	-4.93	-1.00	≤11.00	PASS
11AX20MIMO	106RU54	5240	-3.13	-4.23	-3.10	-4.20	-0.60	≤11.00	PASS
11AX20MIMO	26RU0	5260	-3.03	-3.37	-3.01	-3.35	-0.17	≤11.00	PASS
11AX20MIMO	52RU37	5260	-3.02	-3.12	-3.00	-3.10	-0.04	≤11.00	PASS
11AX20MIMO	106RU53	5260	-4.04	-4.29	-4.01	-4.26	-1.12	≤11.00	PASS
11AX20MIMO	26RU4	5280	-4.31	-4.81	-4.29	-4.79	-1.52	≤11.00	PASS
11AX20MIMO	52RU39	5280	-3.71	-4.69	-3.69	-4.67	-1.14	≤11.00	PASS
11AX20MIMO	106RU54	5280	-3.95	-3.84	-3.92	-3.81	-0.85	≤11.00	PASS

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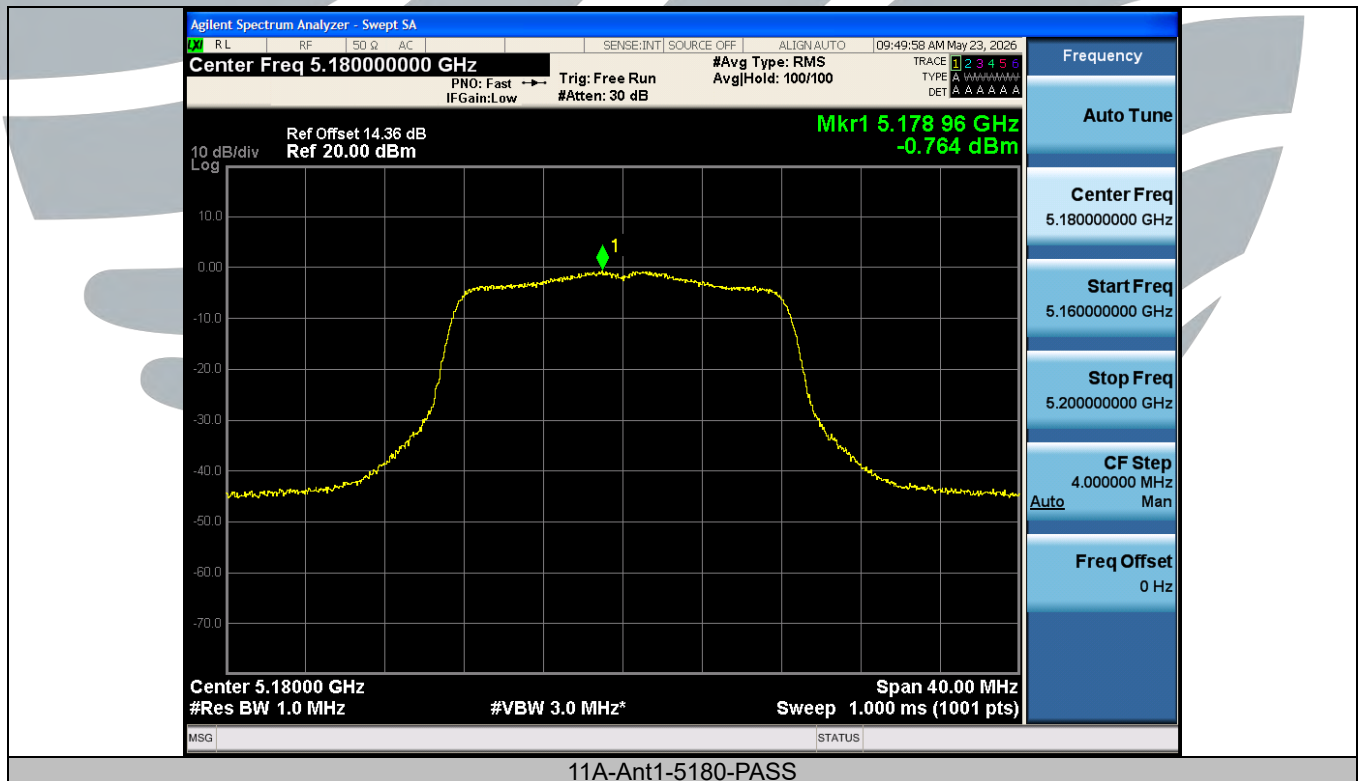
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Test Mode	RU&Index	Freq. [MHz]	PSD Meas. Value [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]		PSD Corr'd value [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]			Limit [U-NII-1/2A/2C: dBm/MHz] [U-NII-3: dBm/500kHz]	Verdict
			Chain 0	Chain 1	Chain 0	Chain 1	Total		
11AX20MIMO	26RU8	5320	-3.42	-3.25	-3.40	-3.23	-0.30	≤11.00	PASS
11AX20MIMO	52RU40	5320	-3.21	-3.27	-3.19	-3.25	-0.21	≤11.00	PASS
11AX20MIMO	106RU54	5320	-3.54	-3.20	-3.51	-3.17	-0.33	≤11.00	PASS
11AX20MIMO	26RU0	5500	-4.34	-2.56	-4.32	-2.54	-0.33	≤11.00	PASS
11AX20MIMO	52RU37	5500	-4.49	-3.85	-4.47	-3.83	-1.13	≤11.00	PASS
11AX20MIMO	106RU53	5500	-4.24	-5.22	-4.21	-5.19	-1.66	≤11.00	PASS
11AX20MIMO	26RU4	5600	-3.95	-5.95	-3.93	-5.93	-1.81	≤11.00	PASS
11AX20MIMO	52RU39	5600	-2.99	-7.05	-2.97	-7.03	-1.53	≤11.00	PASS
11AX20MIMO	106RU54	5600	-2.39	-6.55	-2.36	-6.52	-0.95	≤11.00	PASS
11AX20MIMO	26RU8	5700	-6.57	-3.26	-6.55	-3.24	-1.58	≤11.00	PASS
11AX20MIMO	52RU40	5700	-6.70	-4.18	-6.68	-4.16	-2.23	≤11.00	PASS
11AX20MIMO	106RU54	5700	-6.48	-3.80	-6.45	-3.77	-1.90	≤11.00	PASS
11AX20MIMO	26RU0	5745	-5.654	-8.370	-3.40	-6.11	-1.53	≤30.00	PASS
11AX20MIMO	52RU37	5745	-10.602	-11.182	-8.34	-8.92	-5.61	≤30.00	PASS
11AX20MIMO	106RU53	5745	-5.987	-10.402	-3.73	-8.14	-2.39	≤30.00	PASS
11AX20MIMO	26RU4	5785	-7.162	-8.858	-4.90	-6.60	-2.66	≤30.00	PASS
11AX20MIMO	52RU39	5785	-6.373	-9.260	-4.11	-7.00	-2.31	≤30.00	PASS
11AX20MIMO	106RU54	5785	-6.550	-8.137	-4.29	-5.88	-2.00	≤30.00	PASS
11AX20MIMO	26RU8	5825	-6.022	-6.143	-3.76	-3.88	-0.81	≤30.00	PASS
11AX20MIMO	52RU40	5825	-6.661	-8.331	-4.40	-6.07	-2.15	≤30.00	PASS
11AX20MIMO	106RU54	5825	-6.556	-7.821	-4.30	-5.56	-1.87	≤30.00	PASS

Note: 1. Due to measurement RBW of Maximum PSD is specified in 500kHz, so add 10 log(500 kHz/300 kHz) to the measured result in the band 5.725–5.85 GHz.



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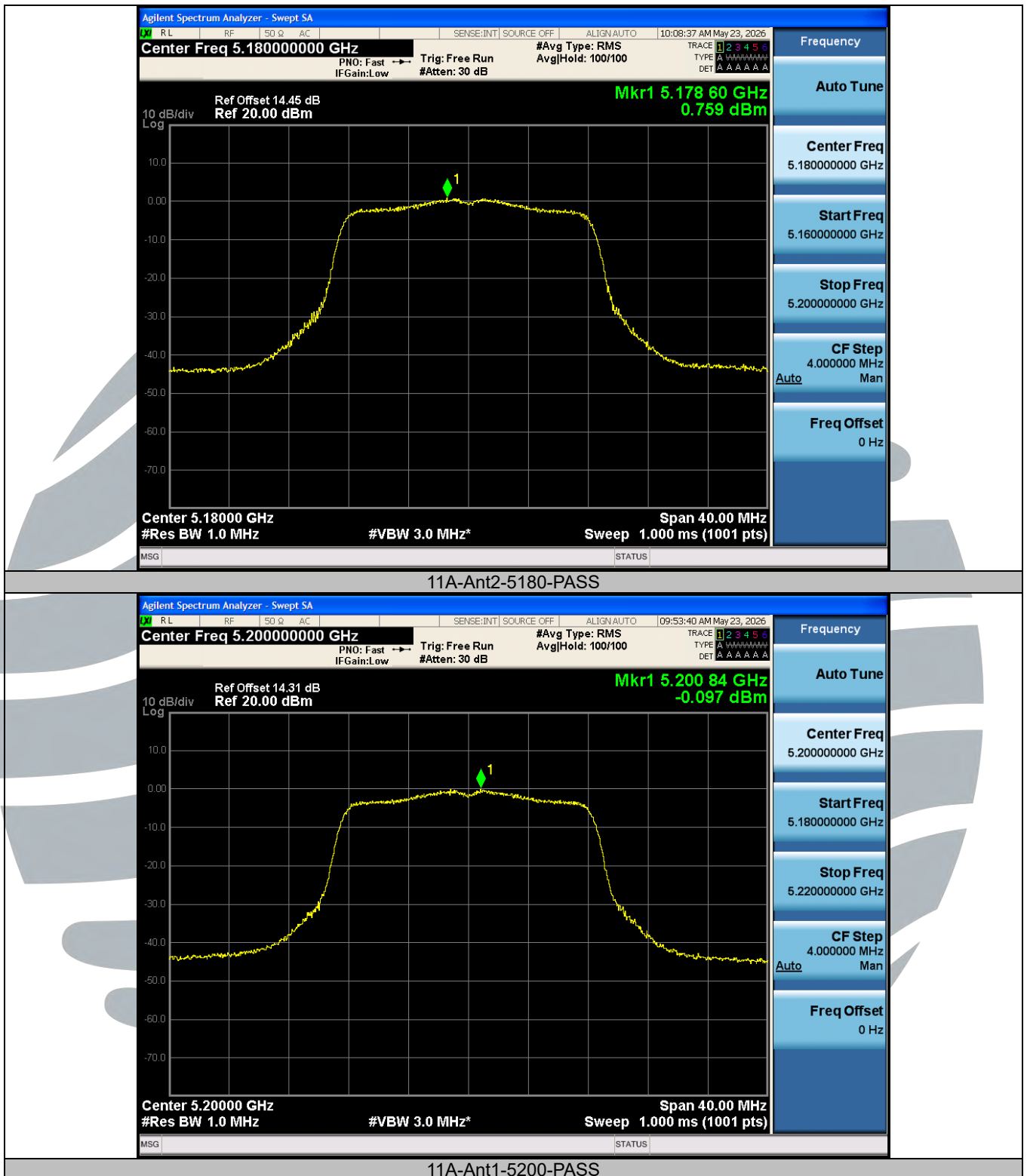
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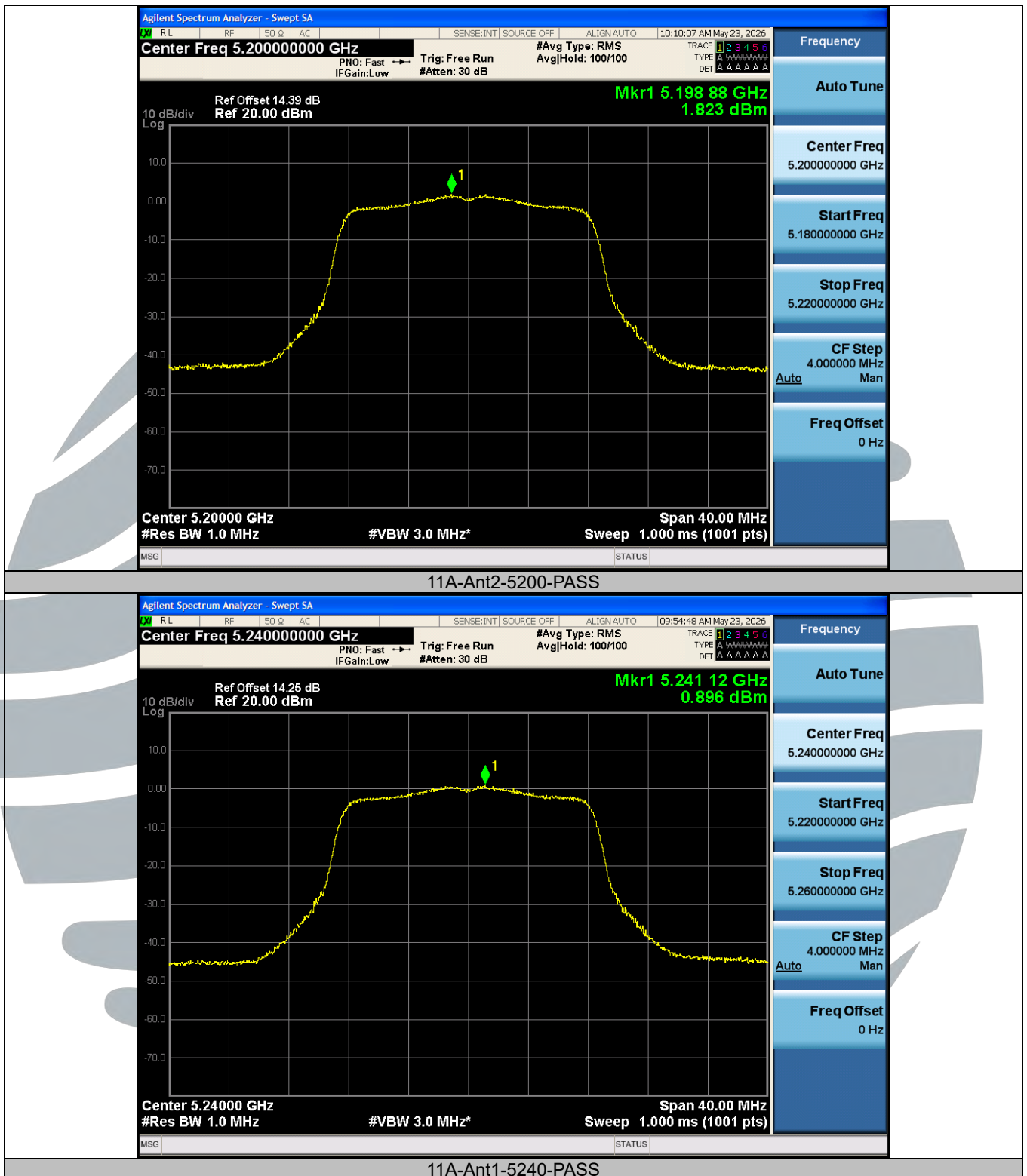
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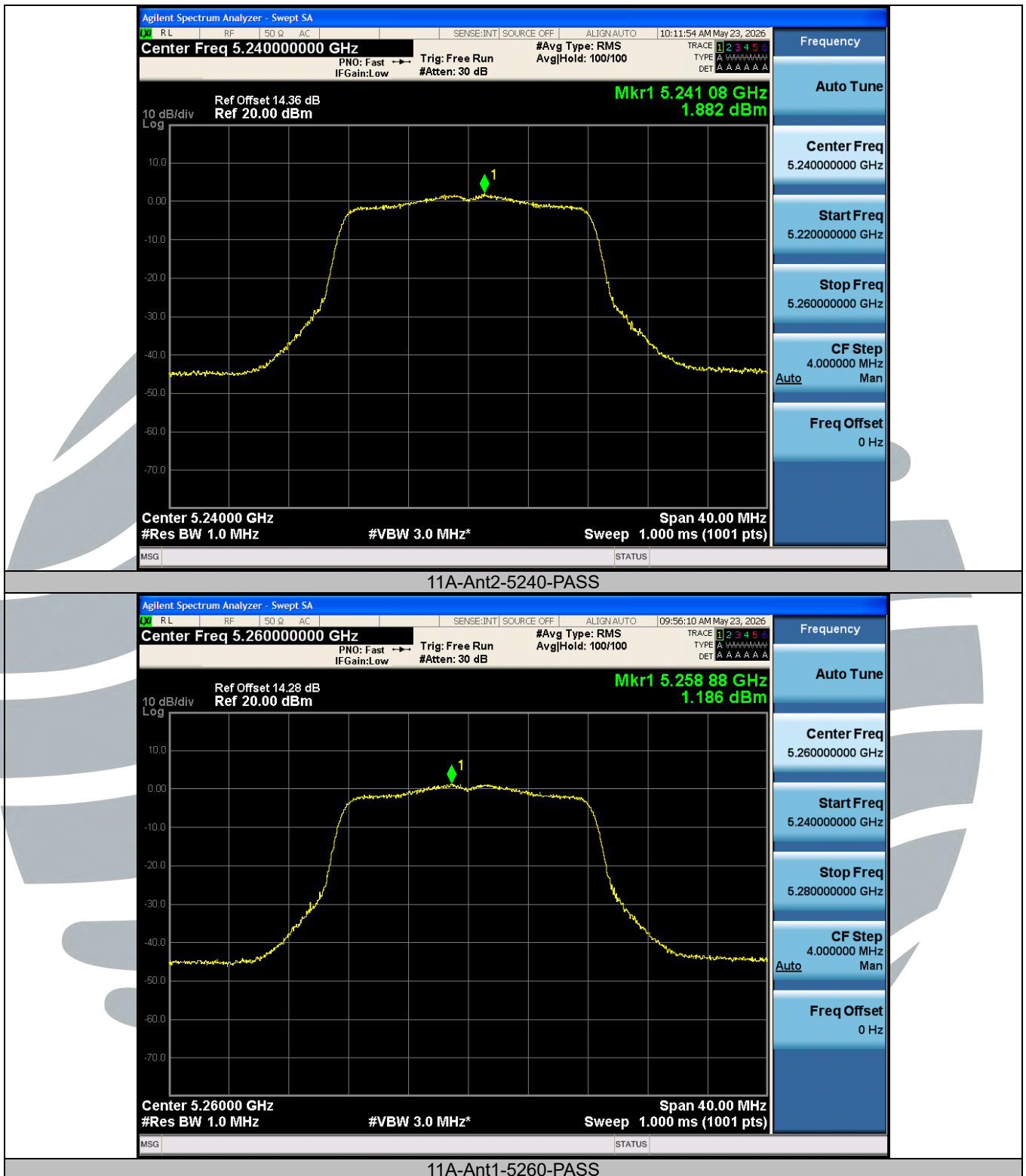
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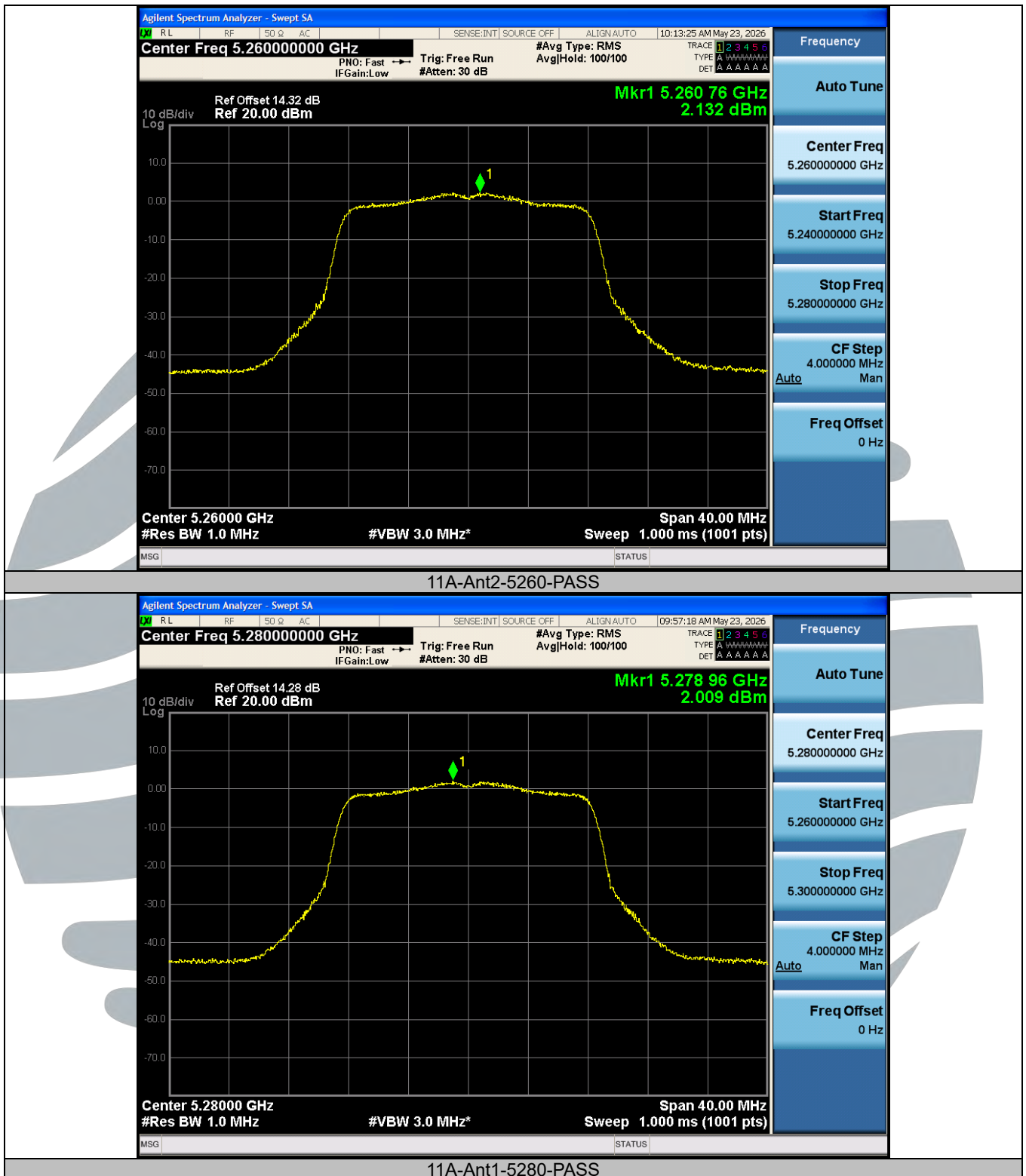
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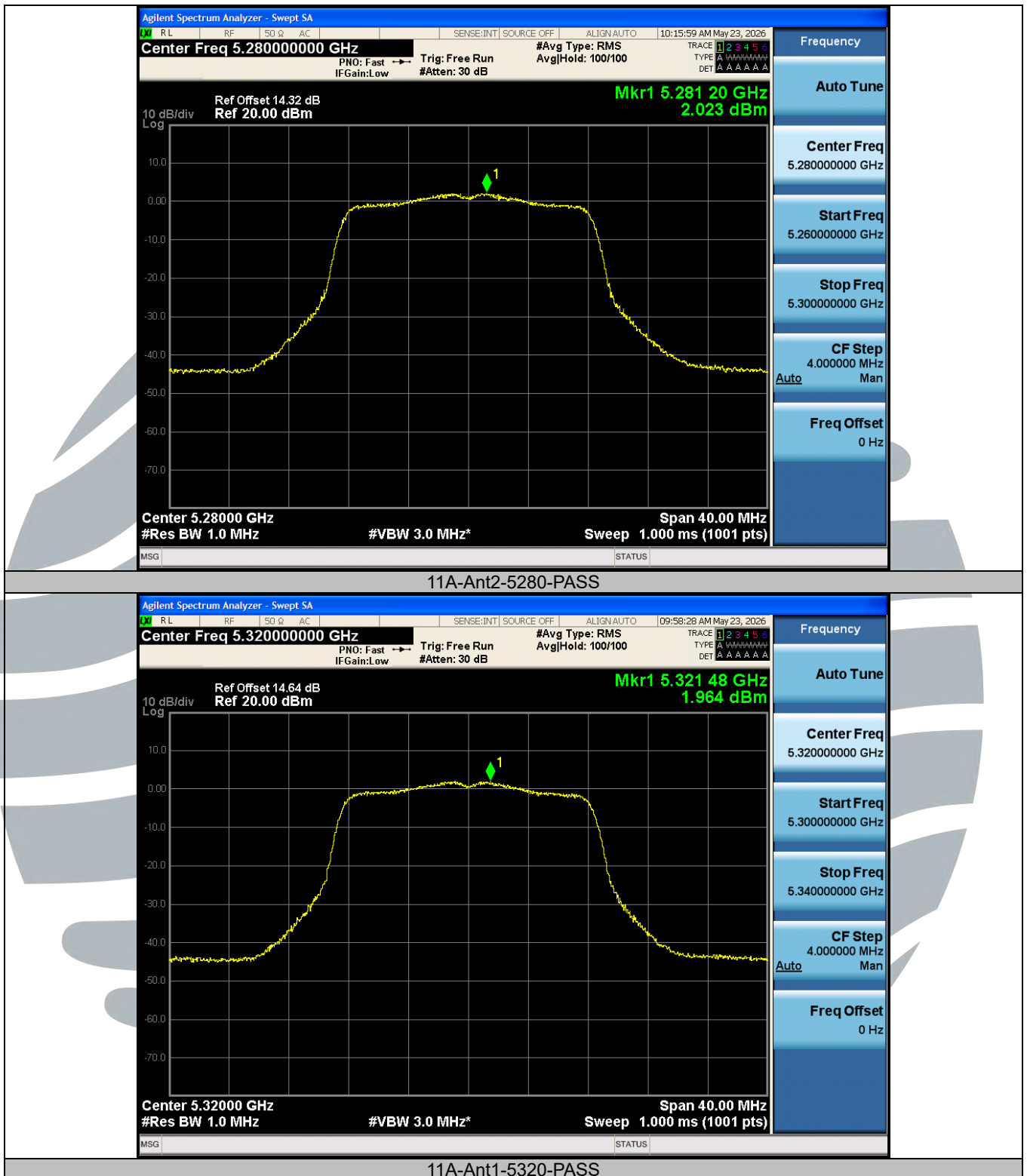
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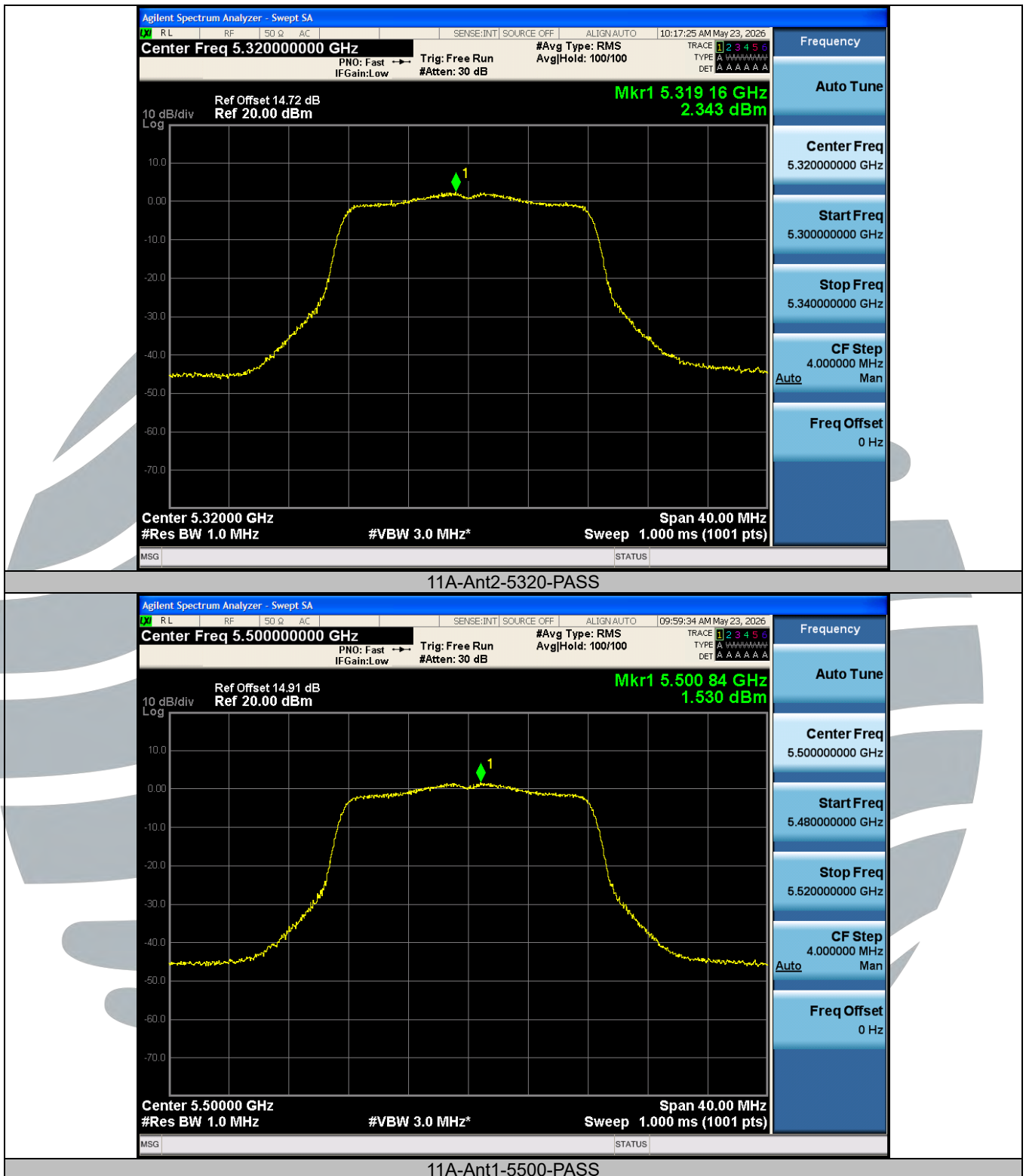
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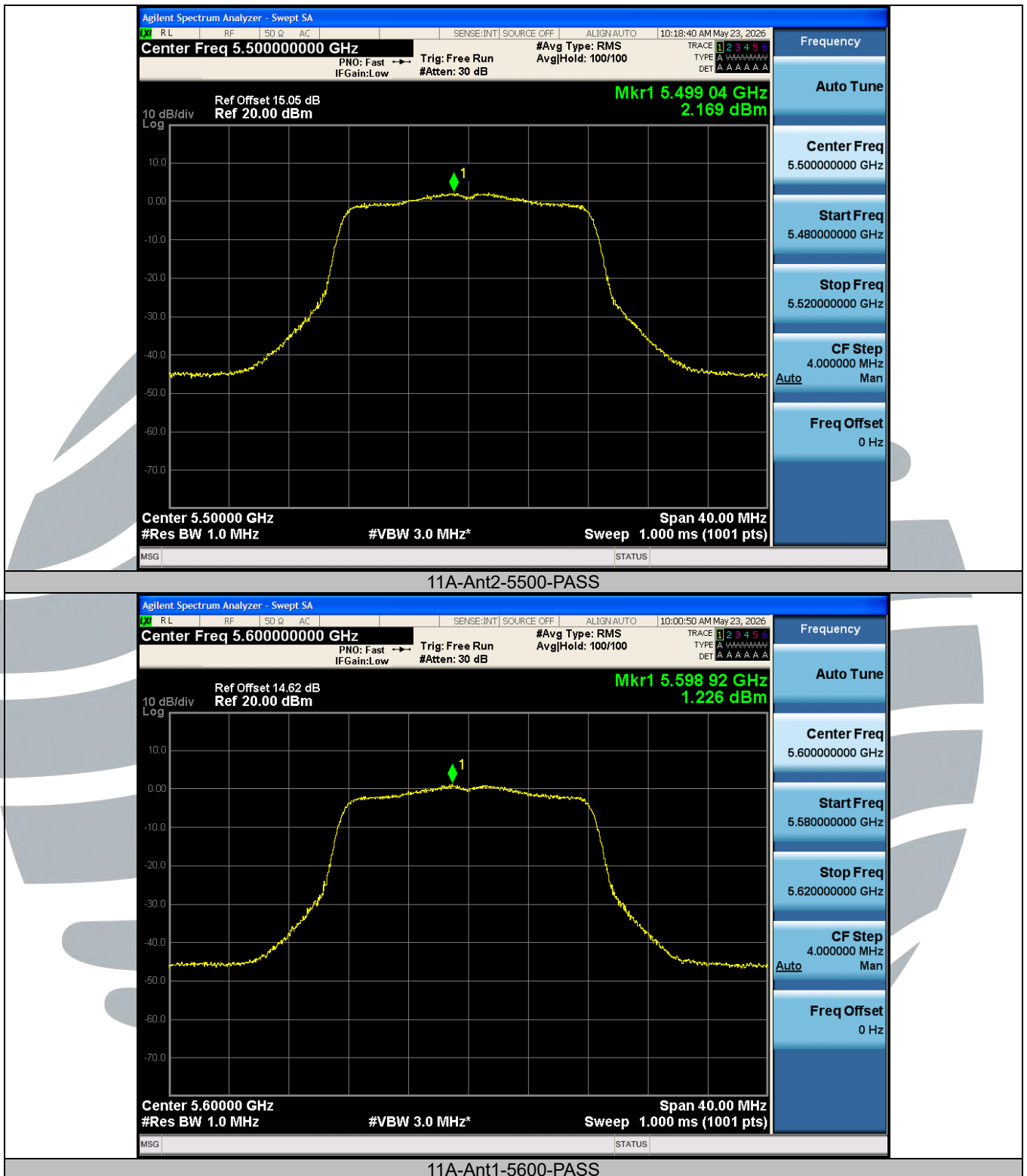
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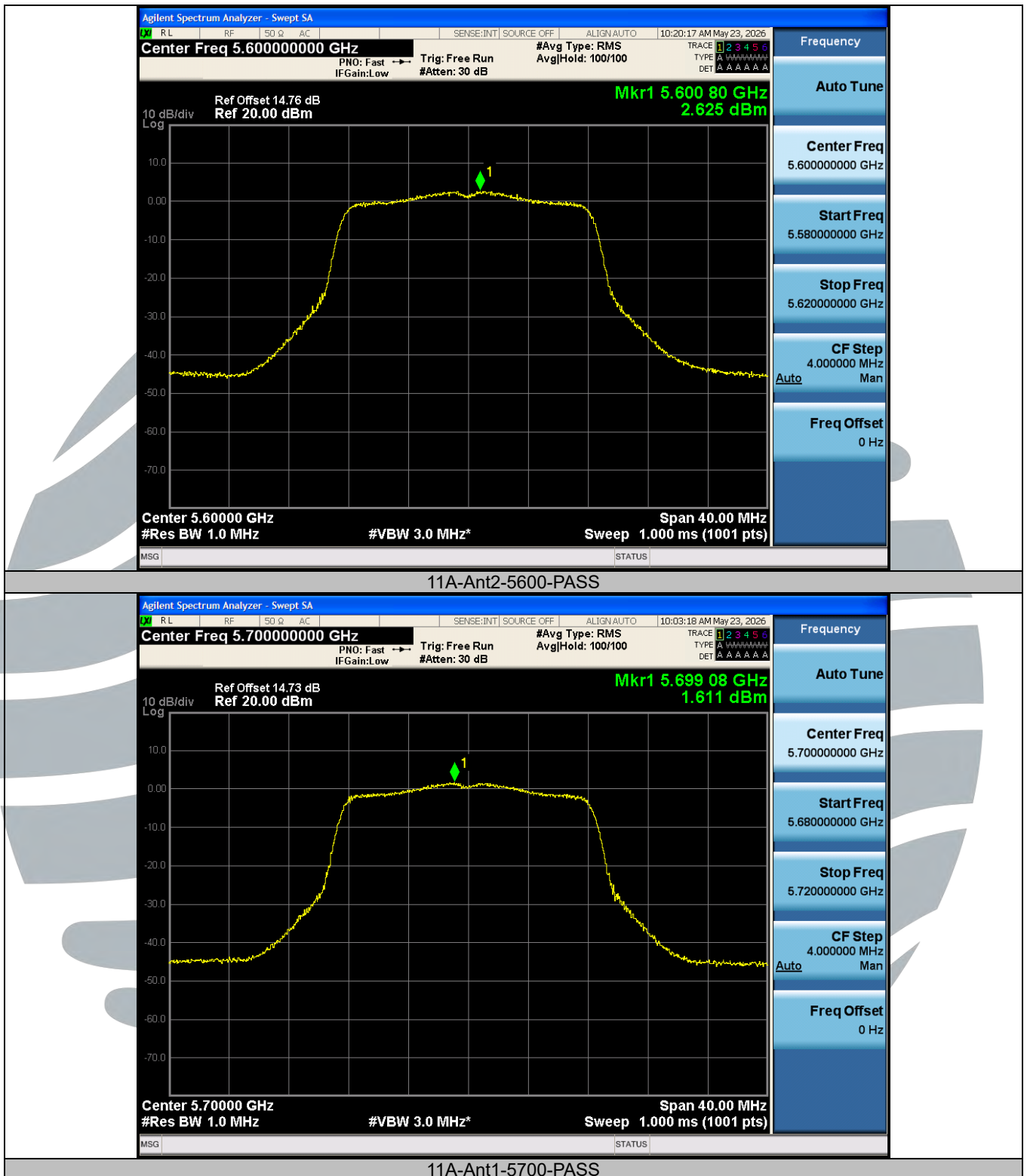
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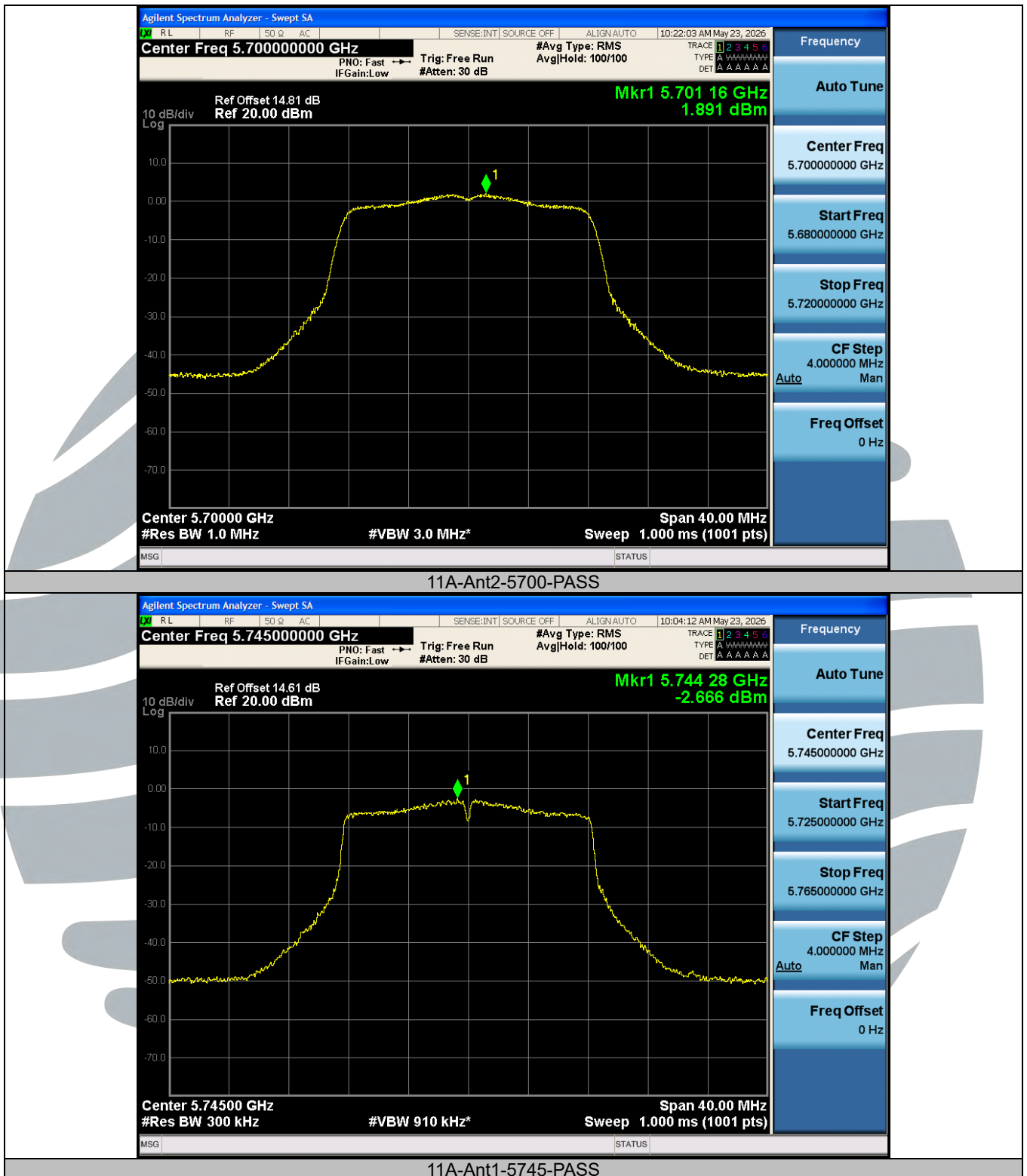
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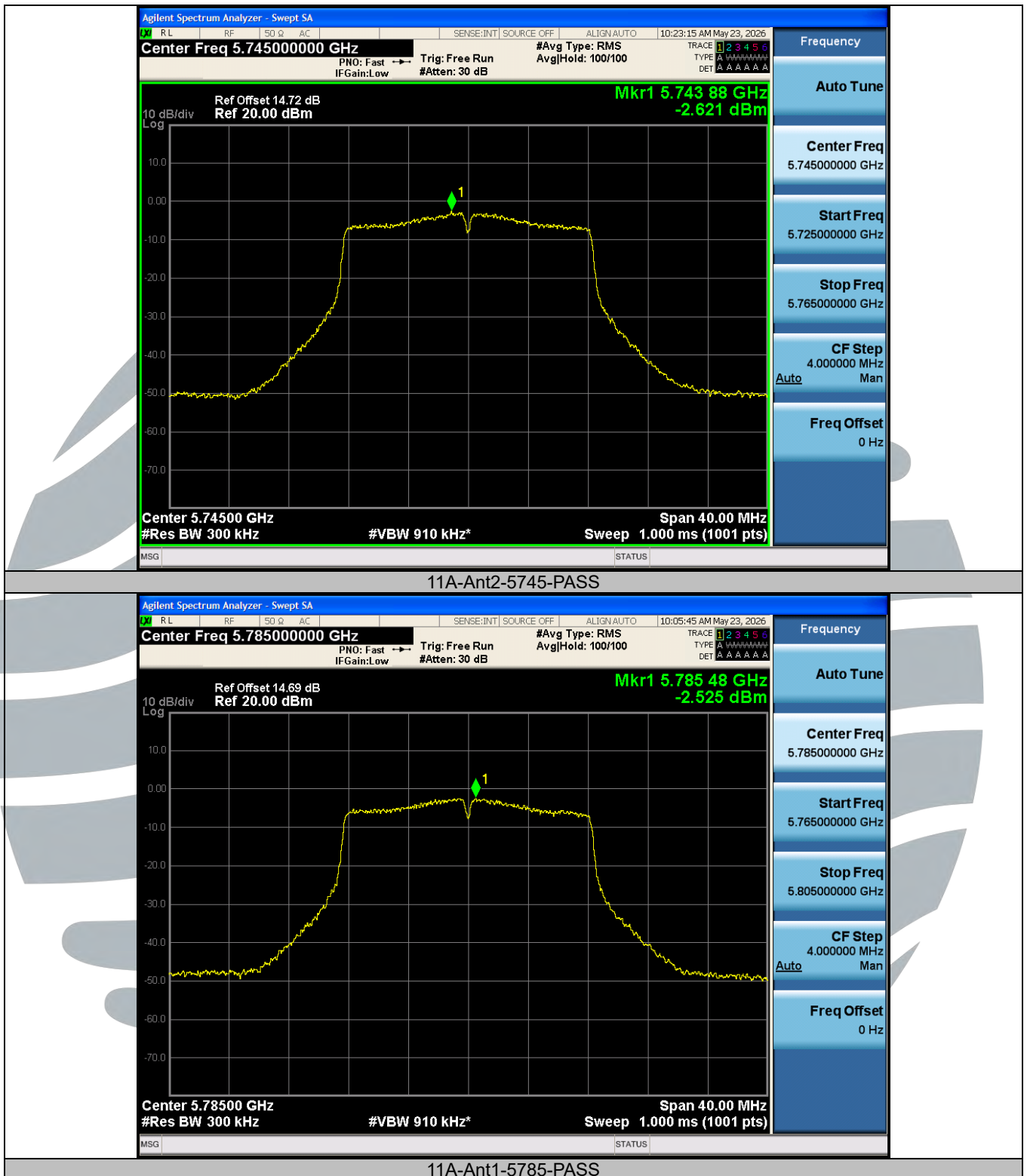
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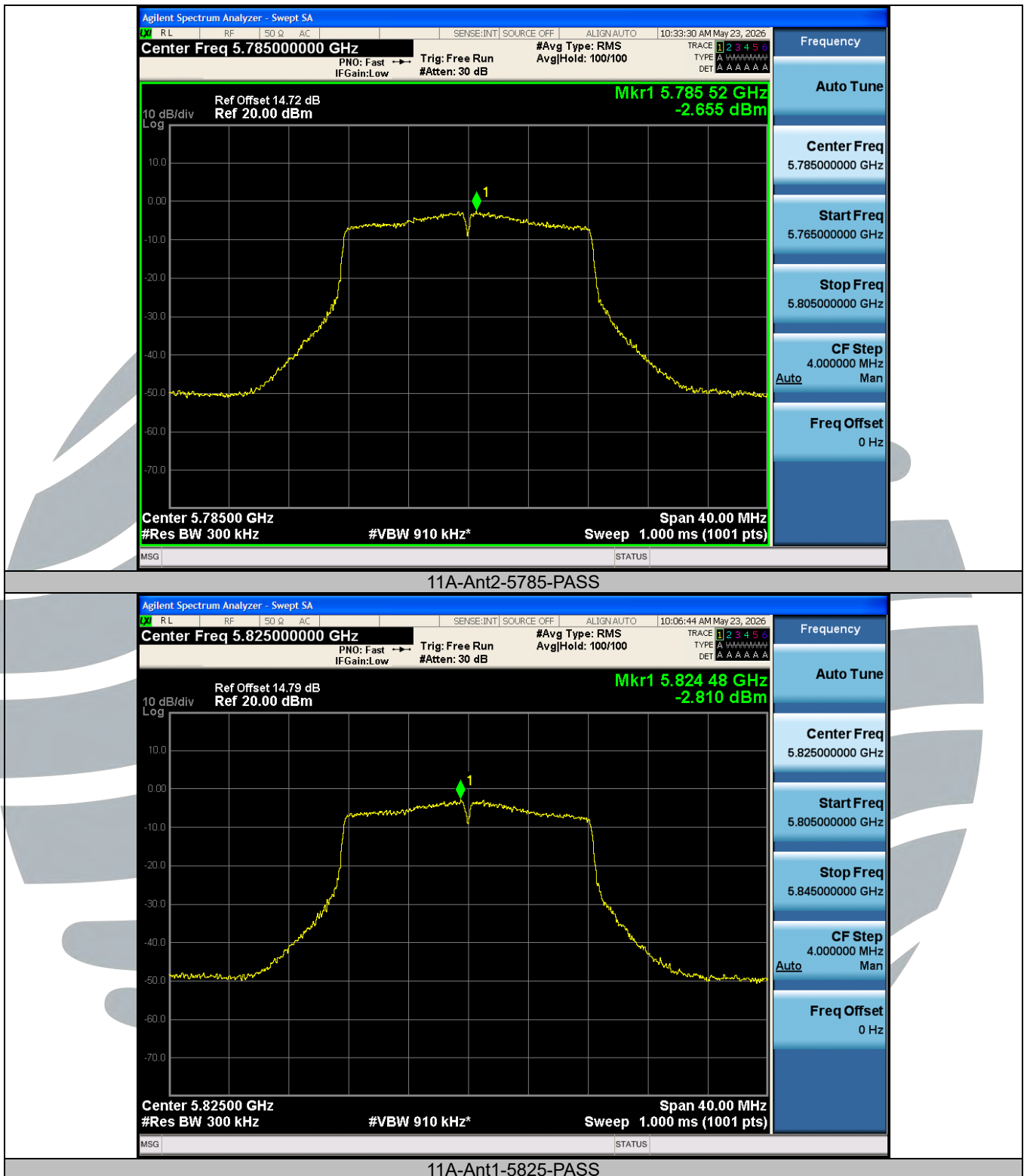
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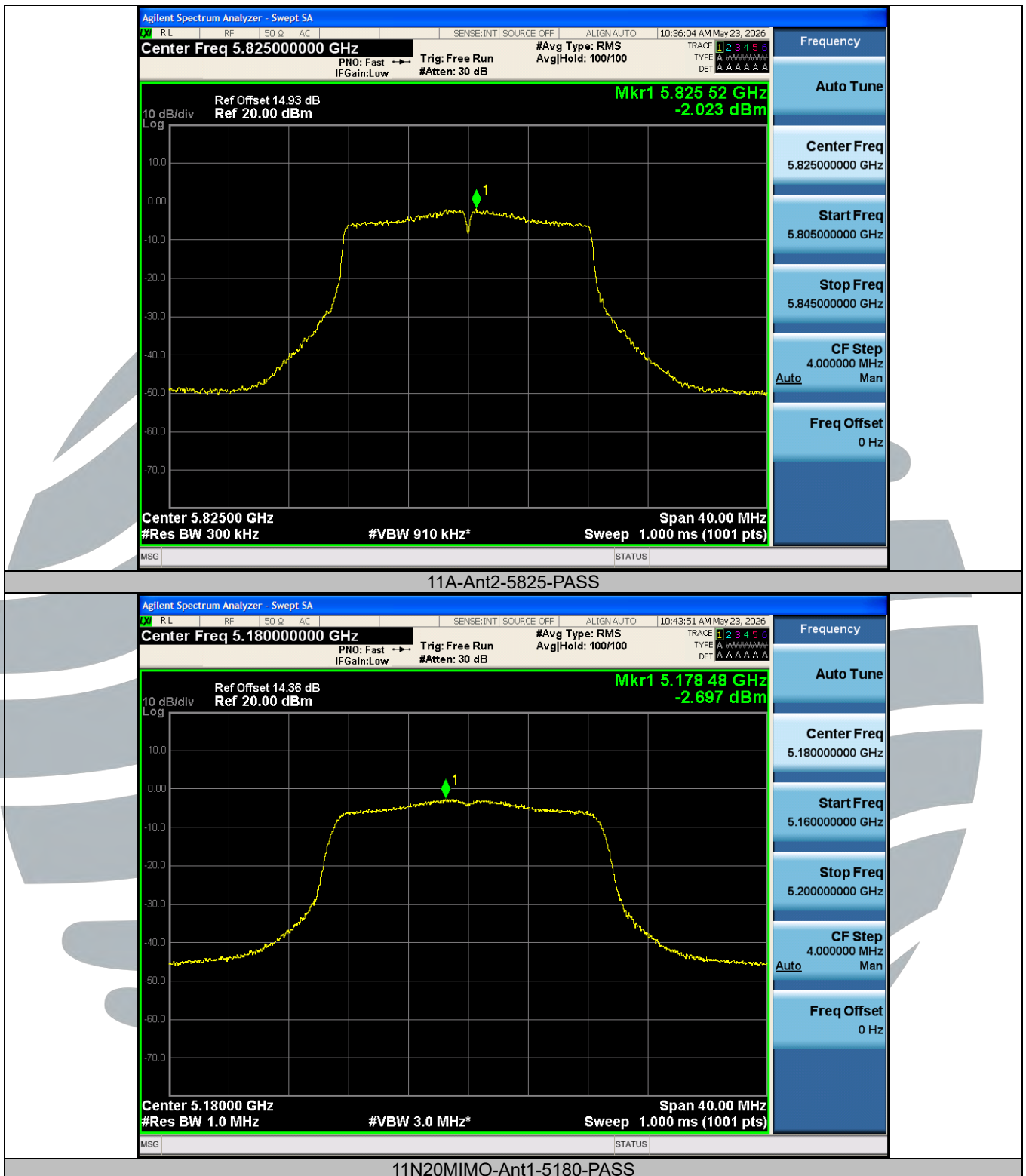
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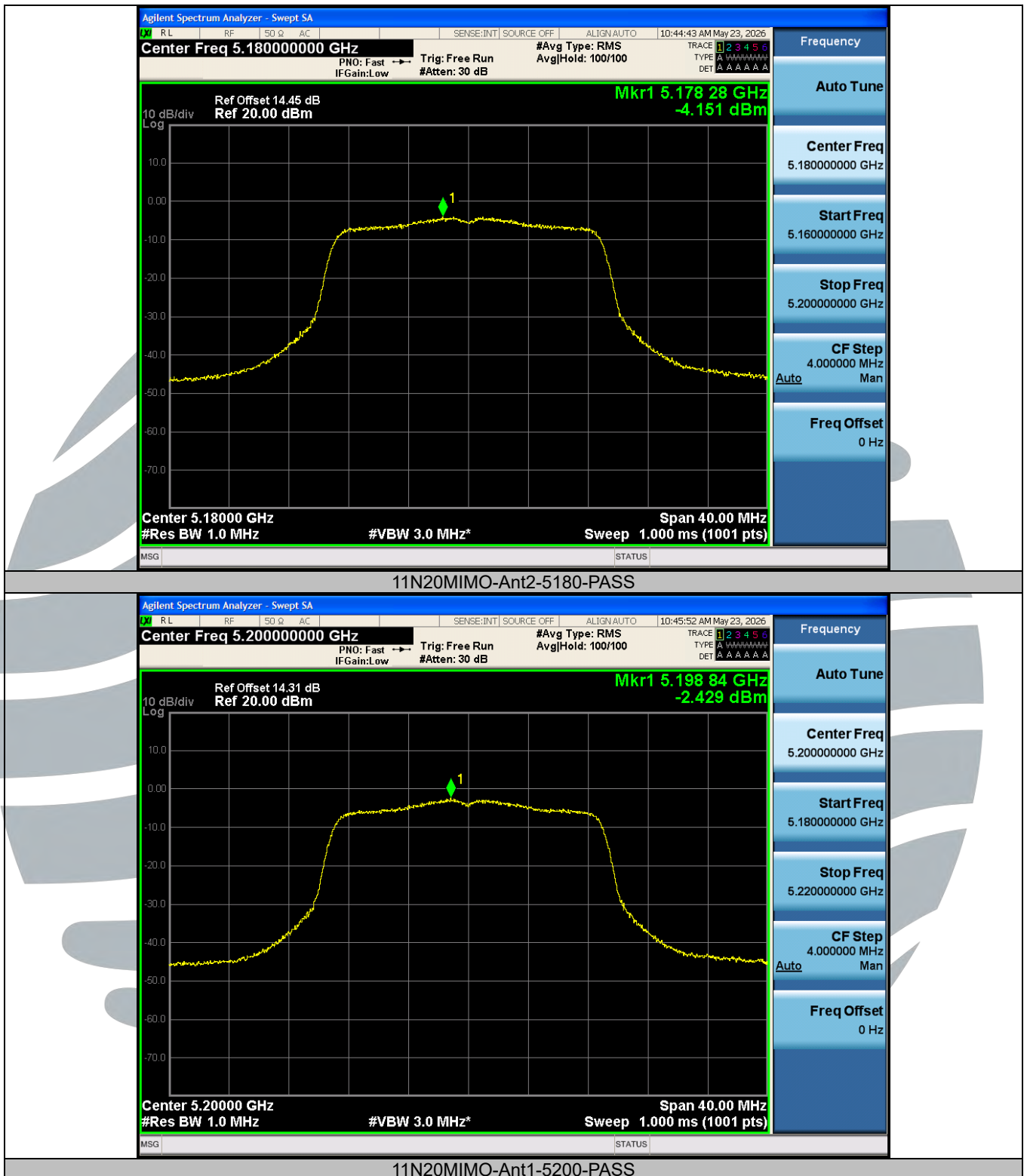
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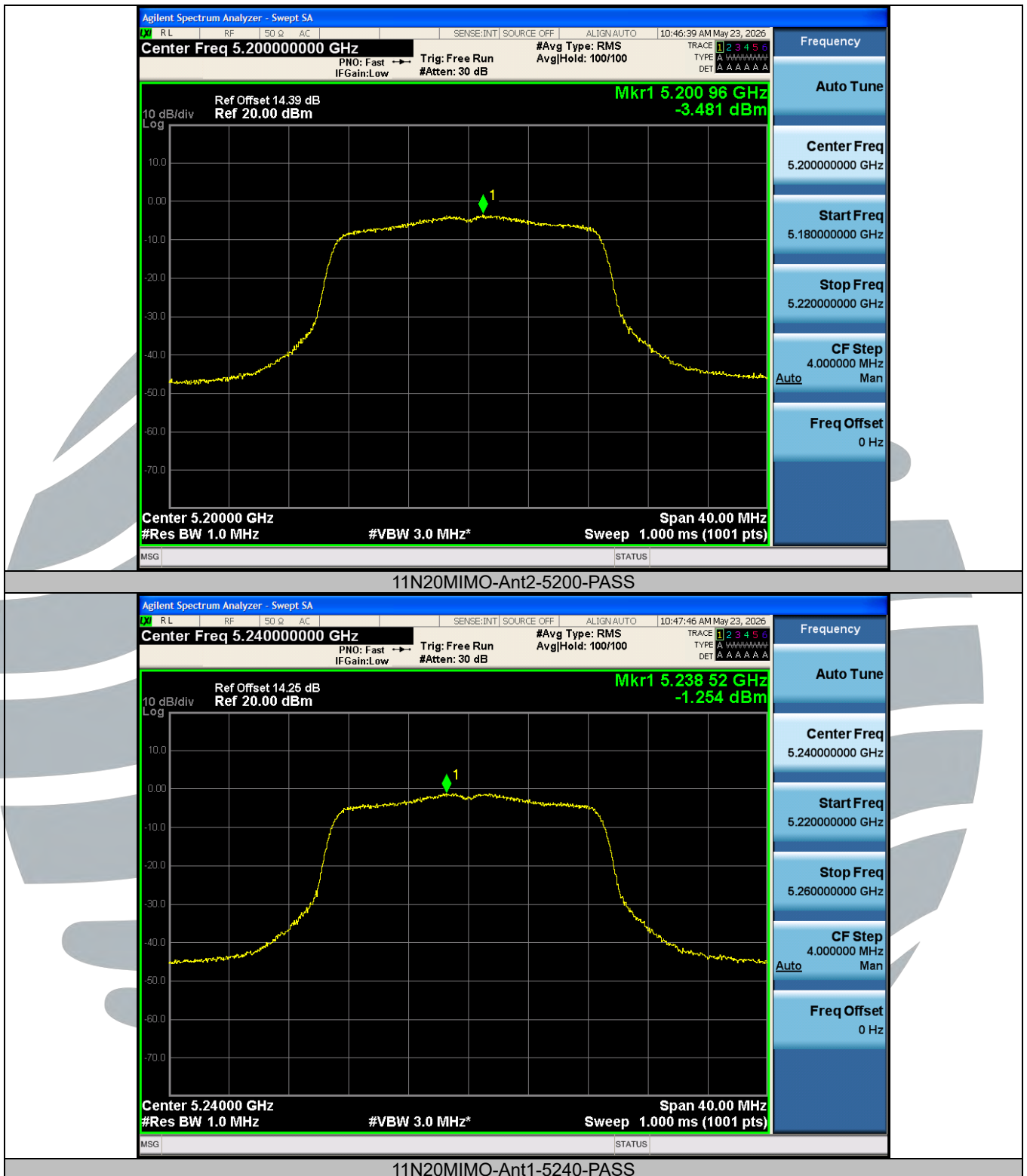
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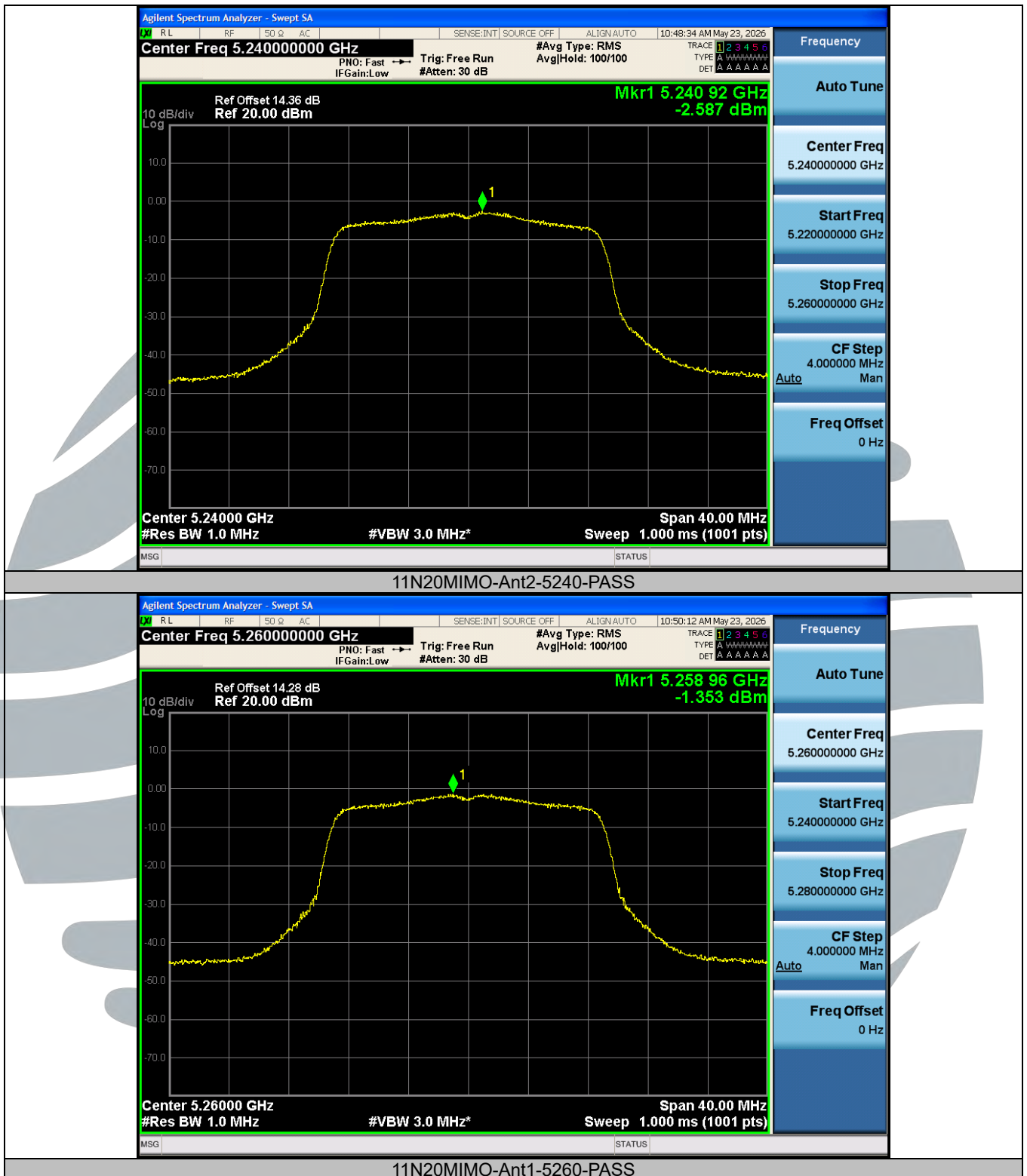
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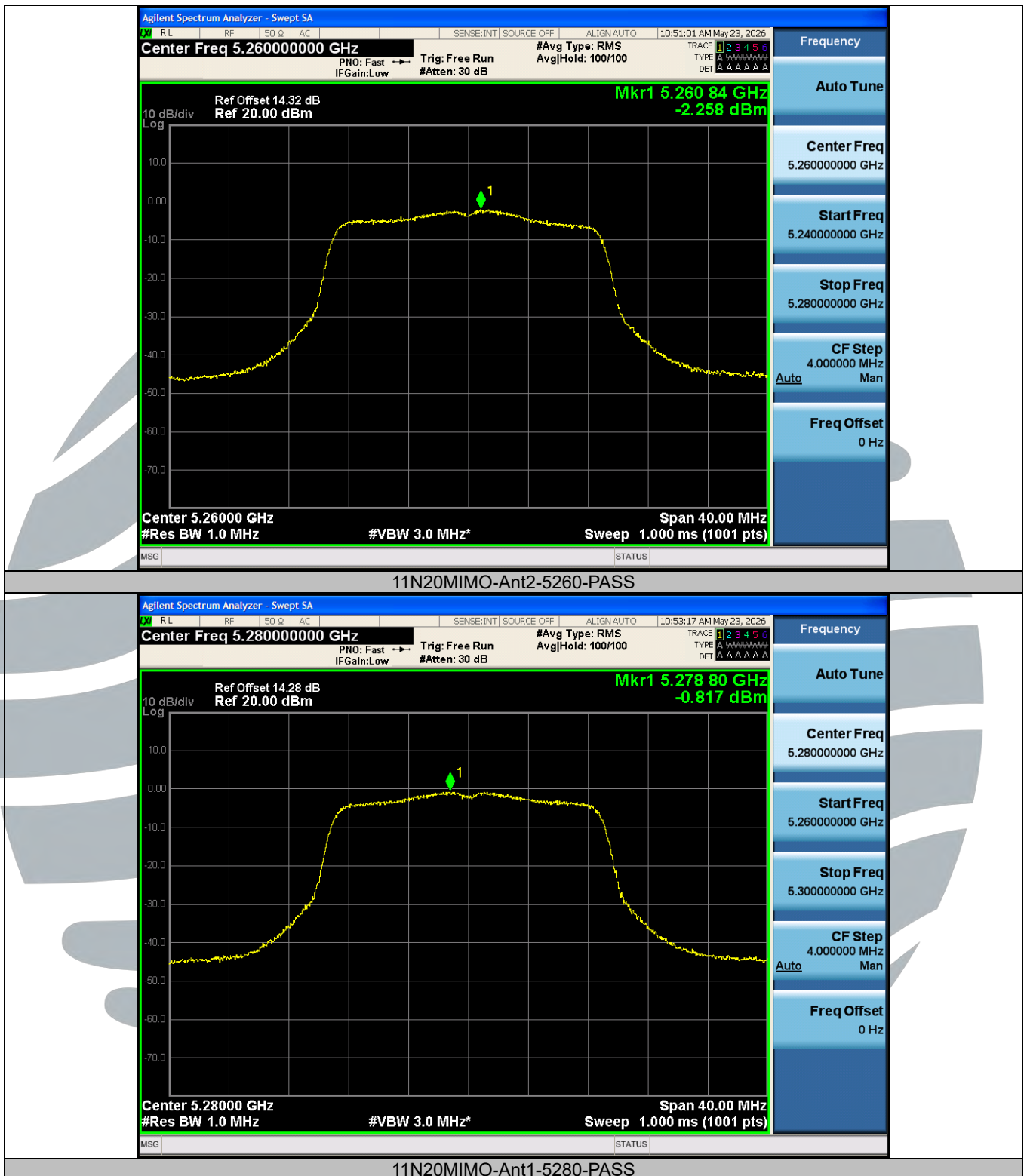
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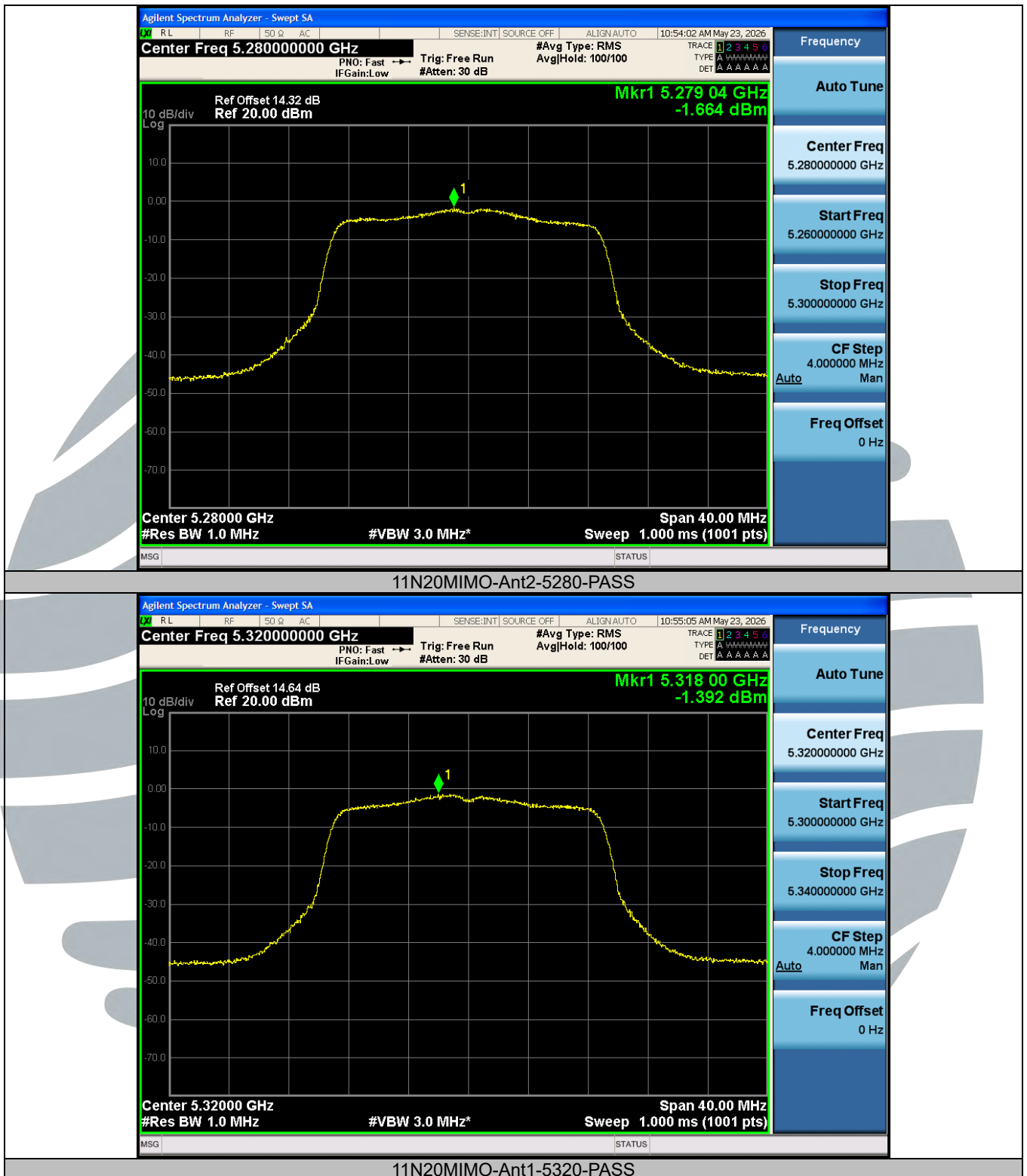
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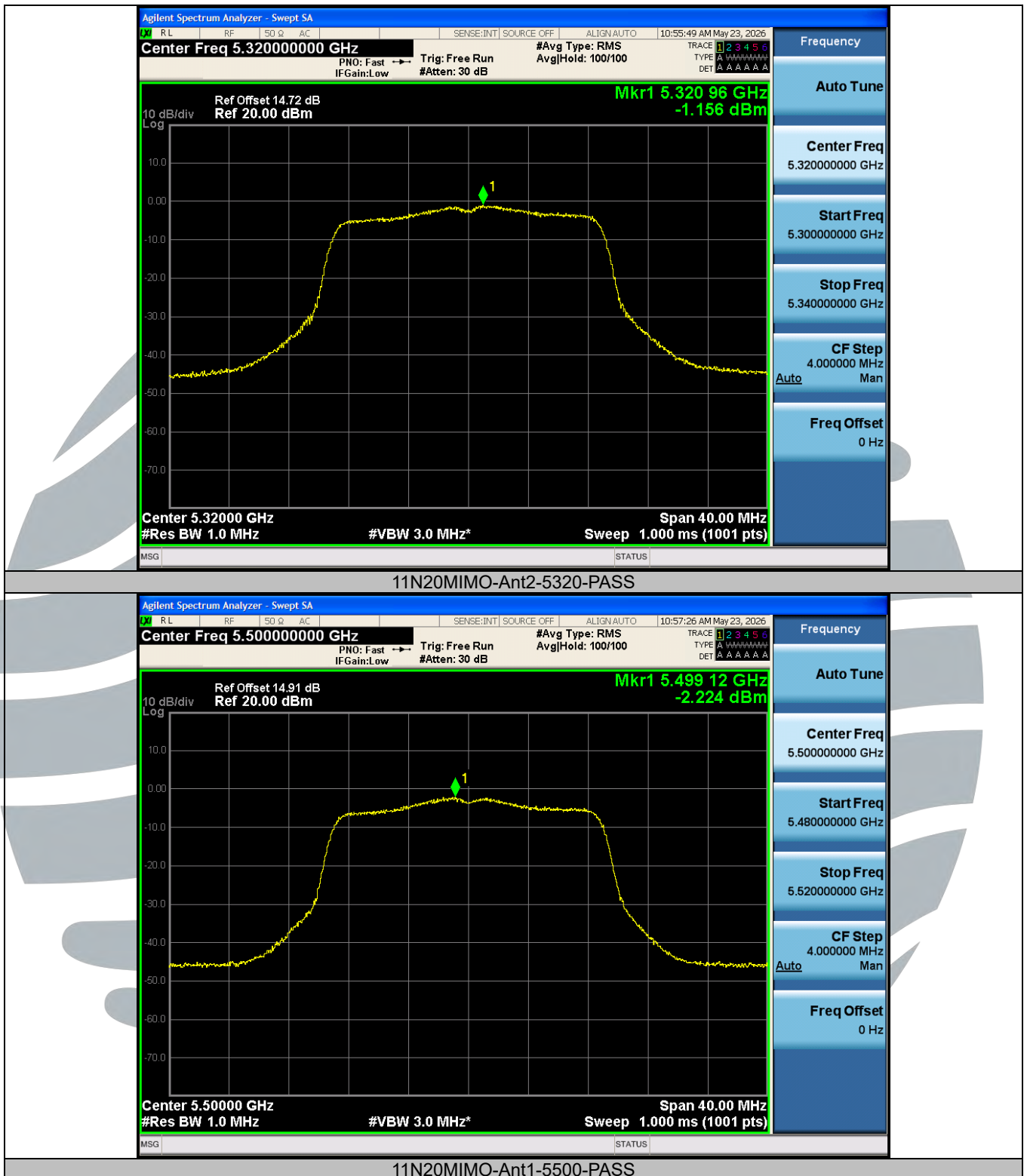
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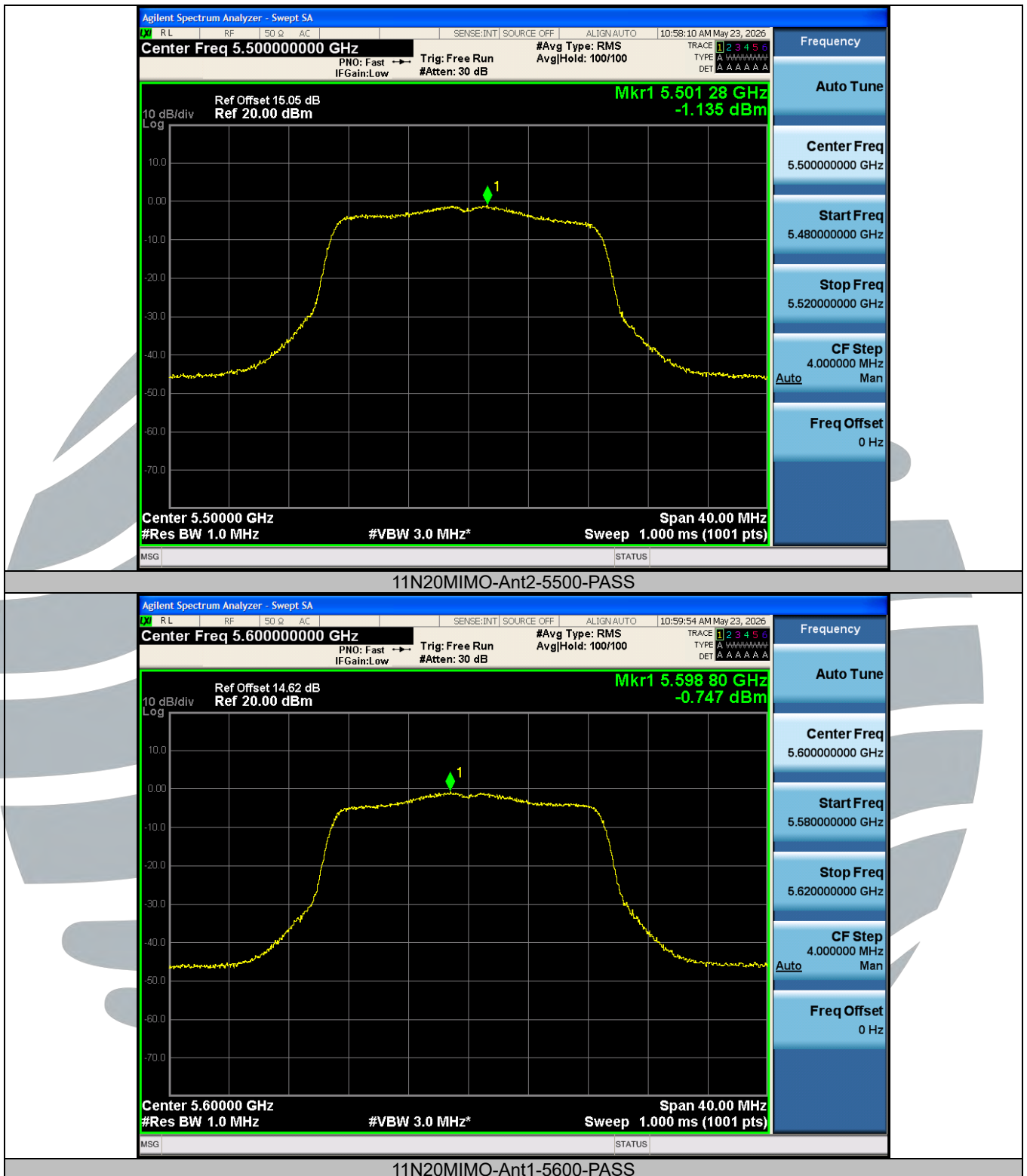
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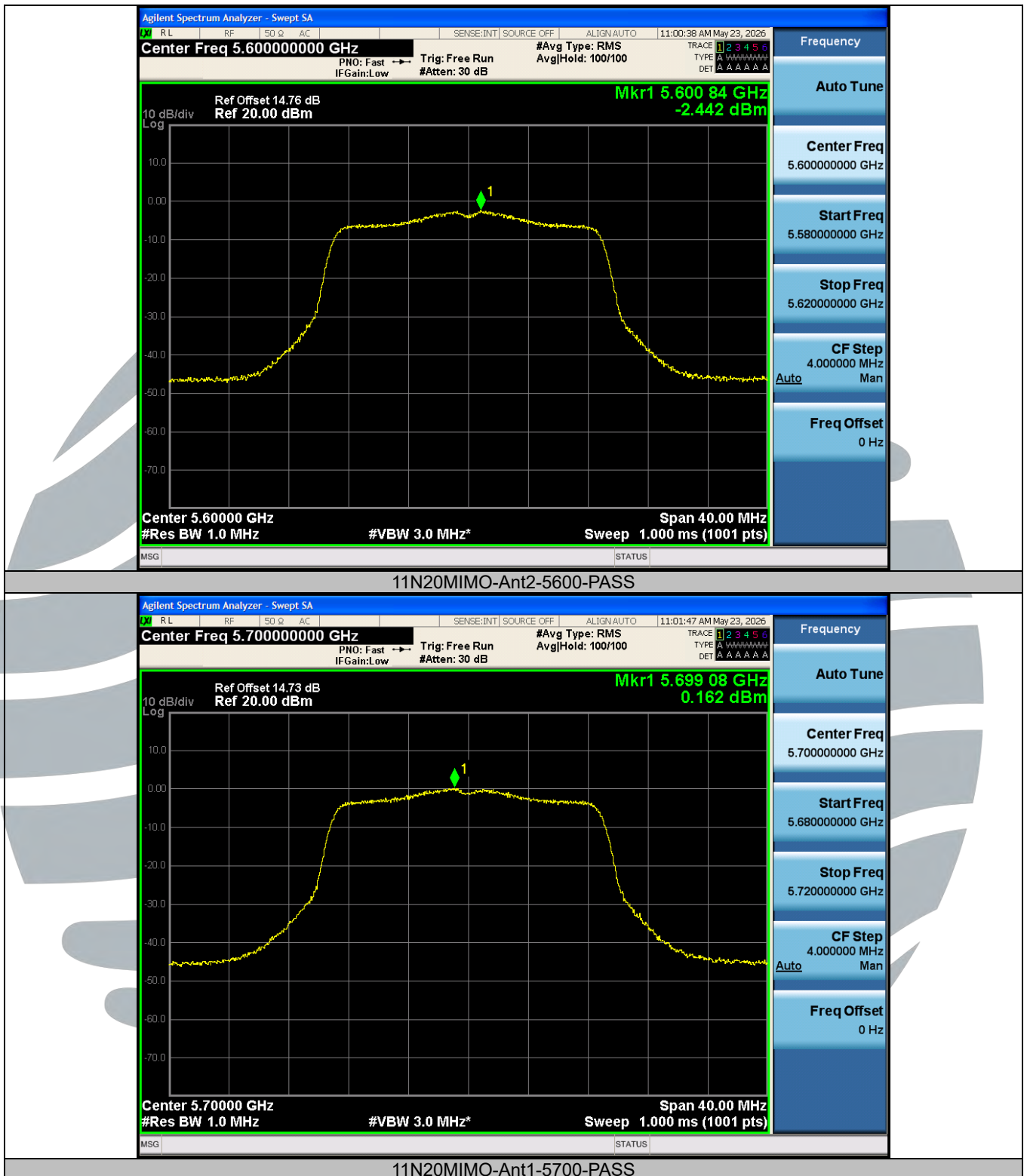
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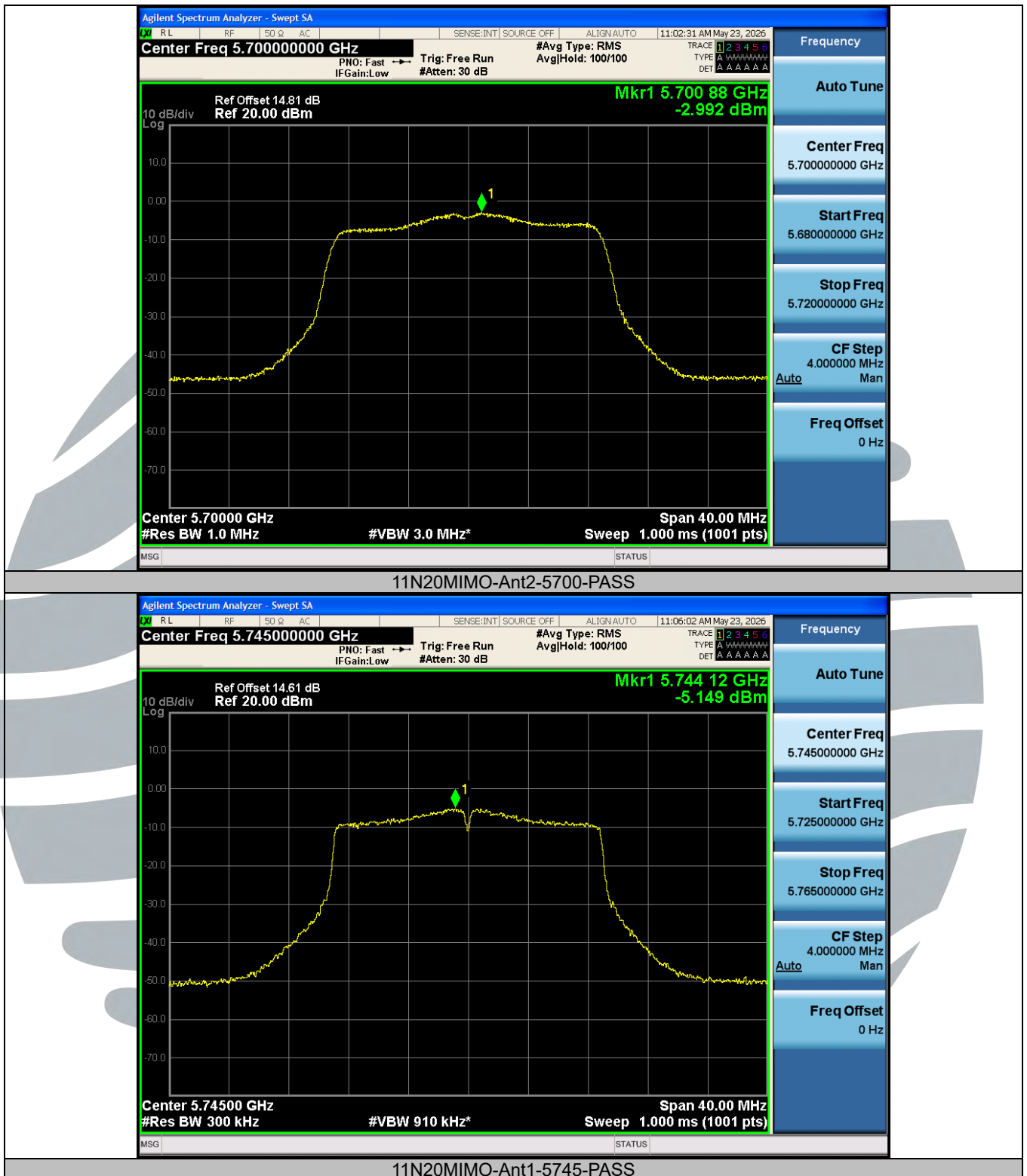
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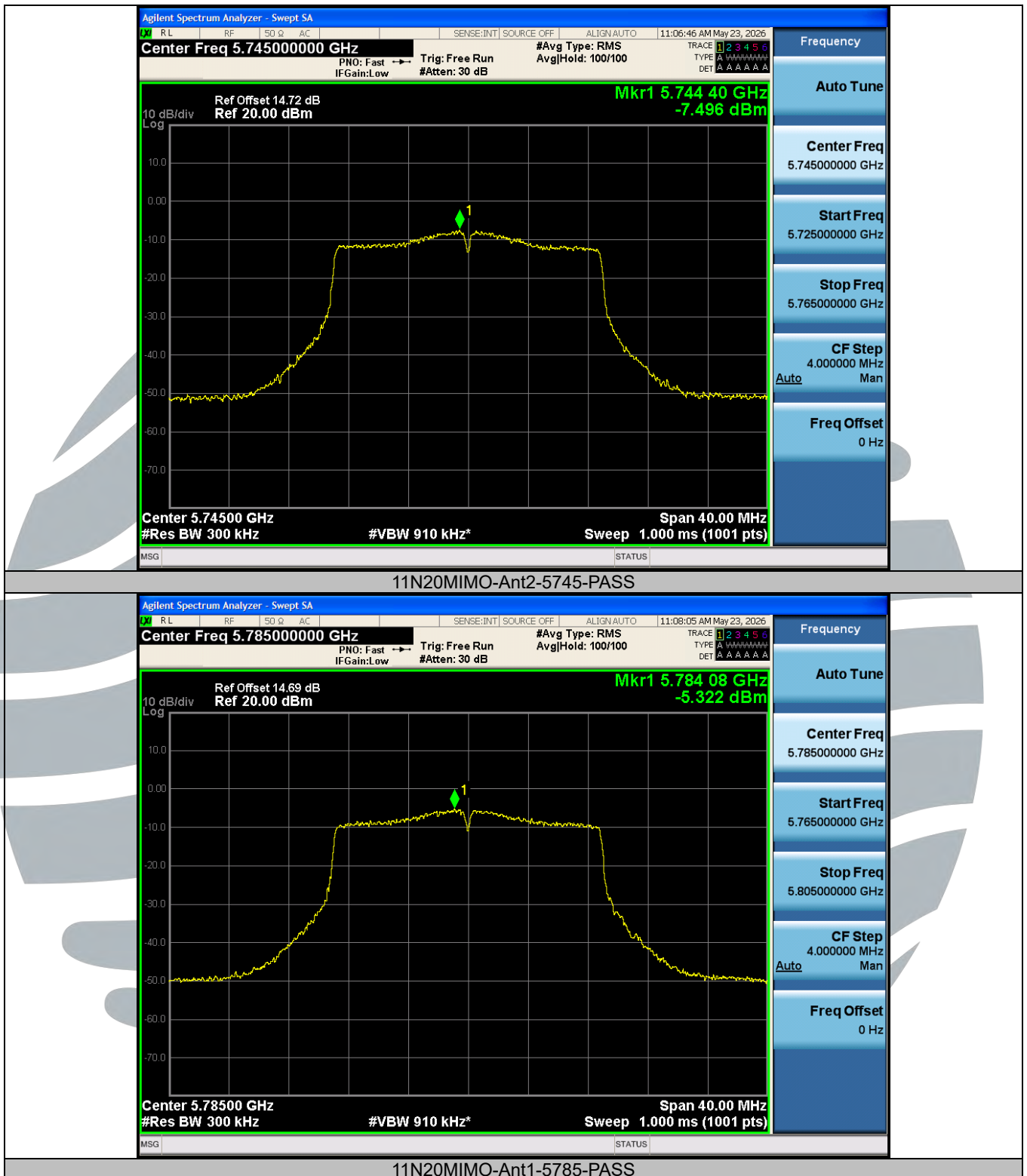
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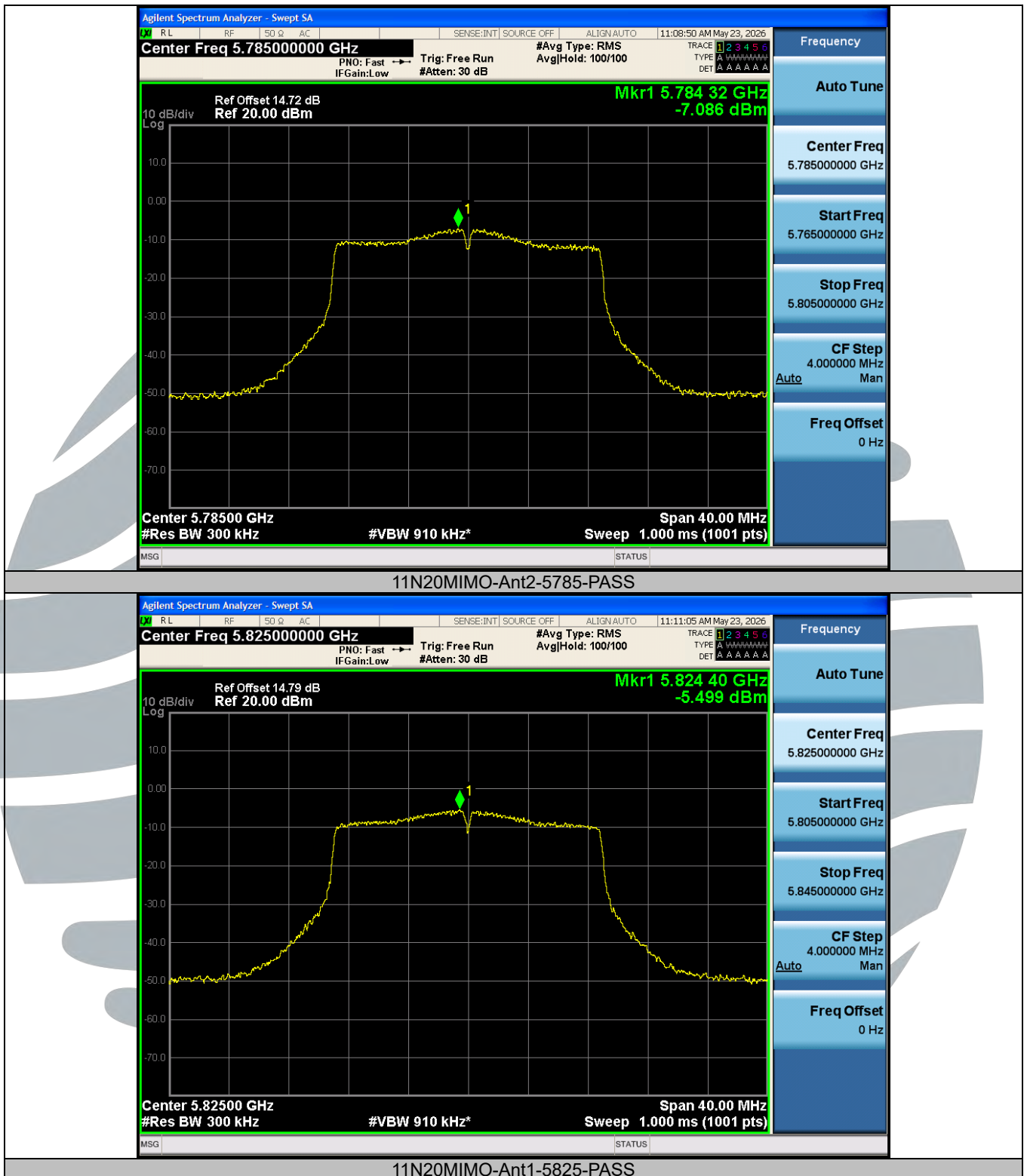
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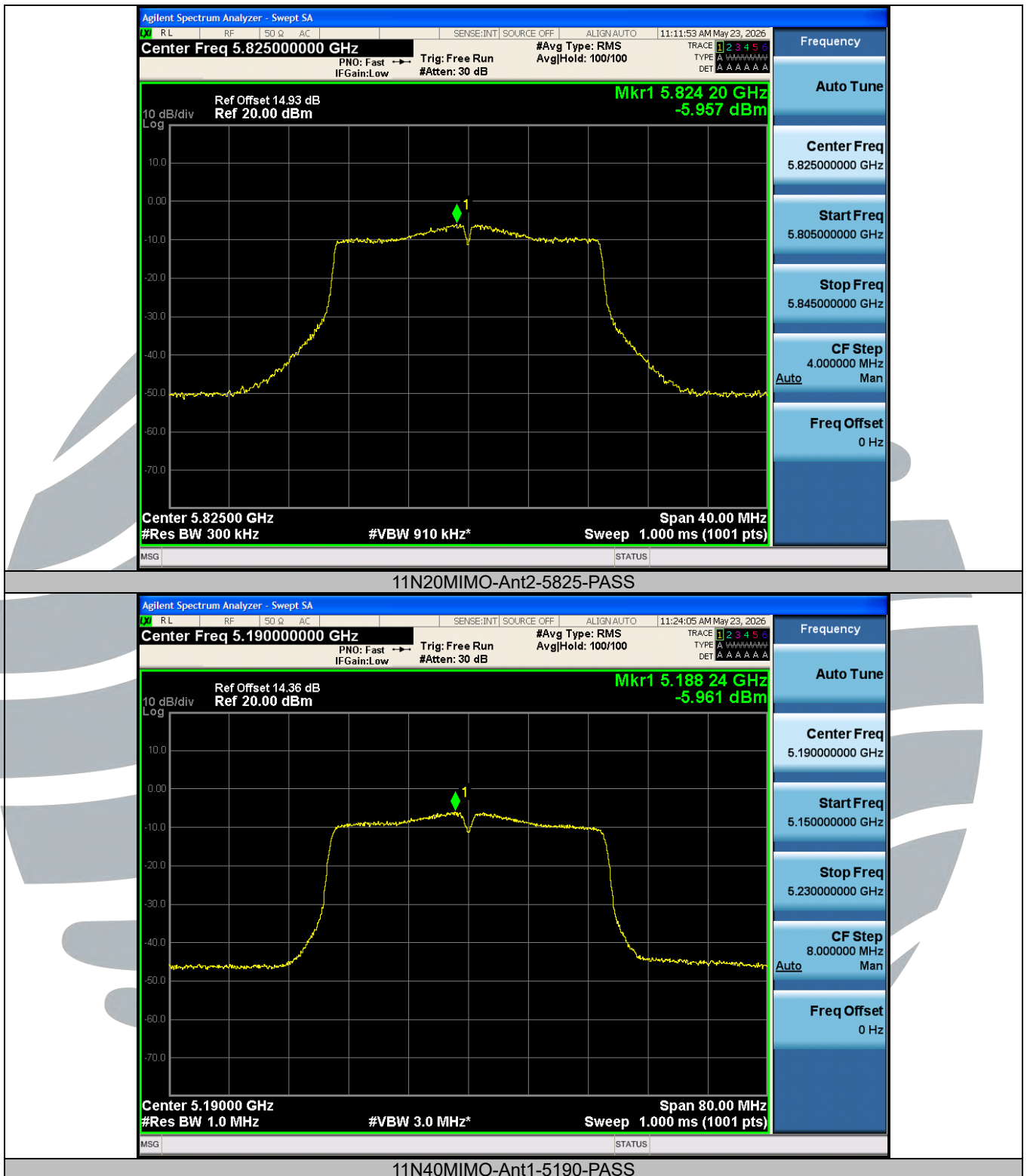
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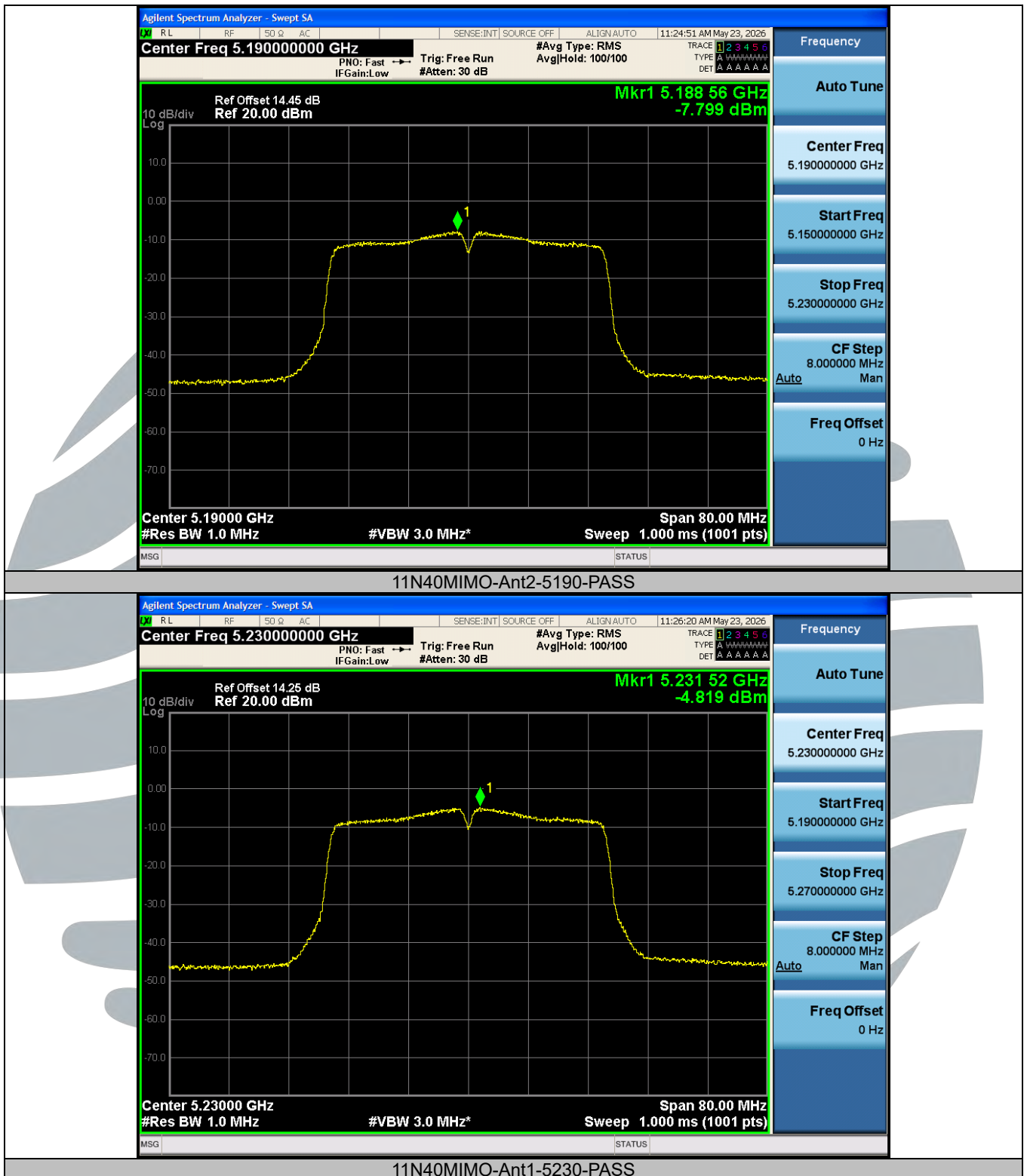
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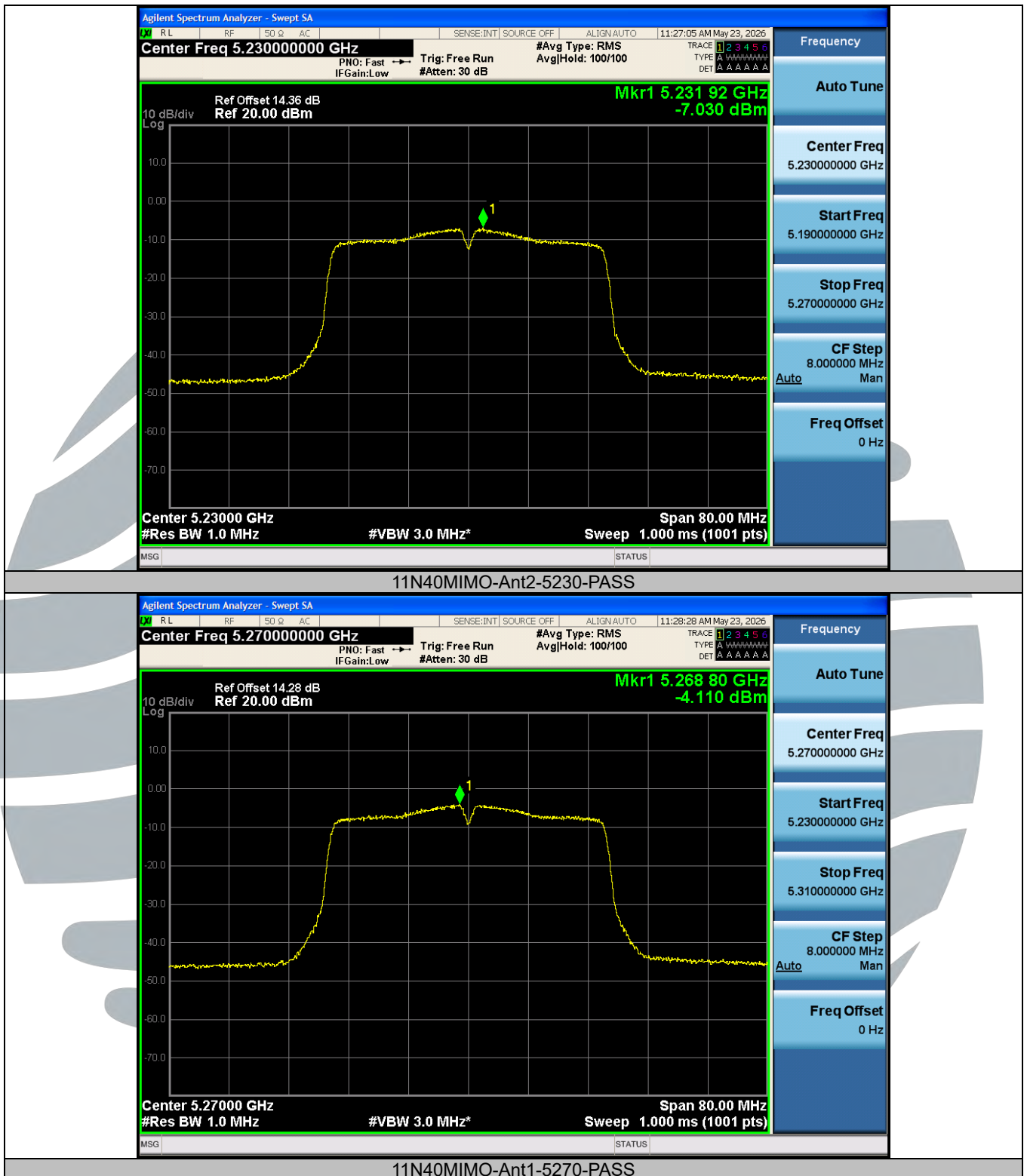
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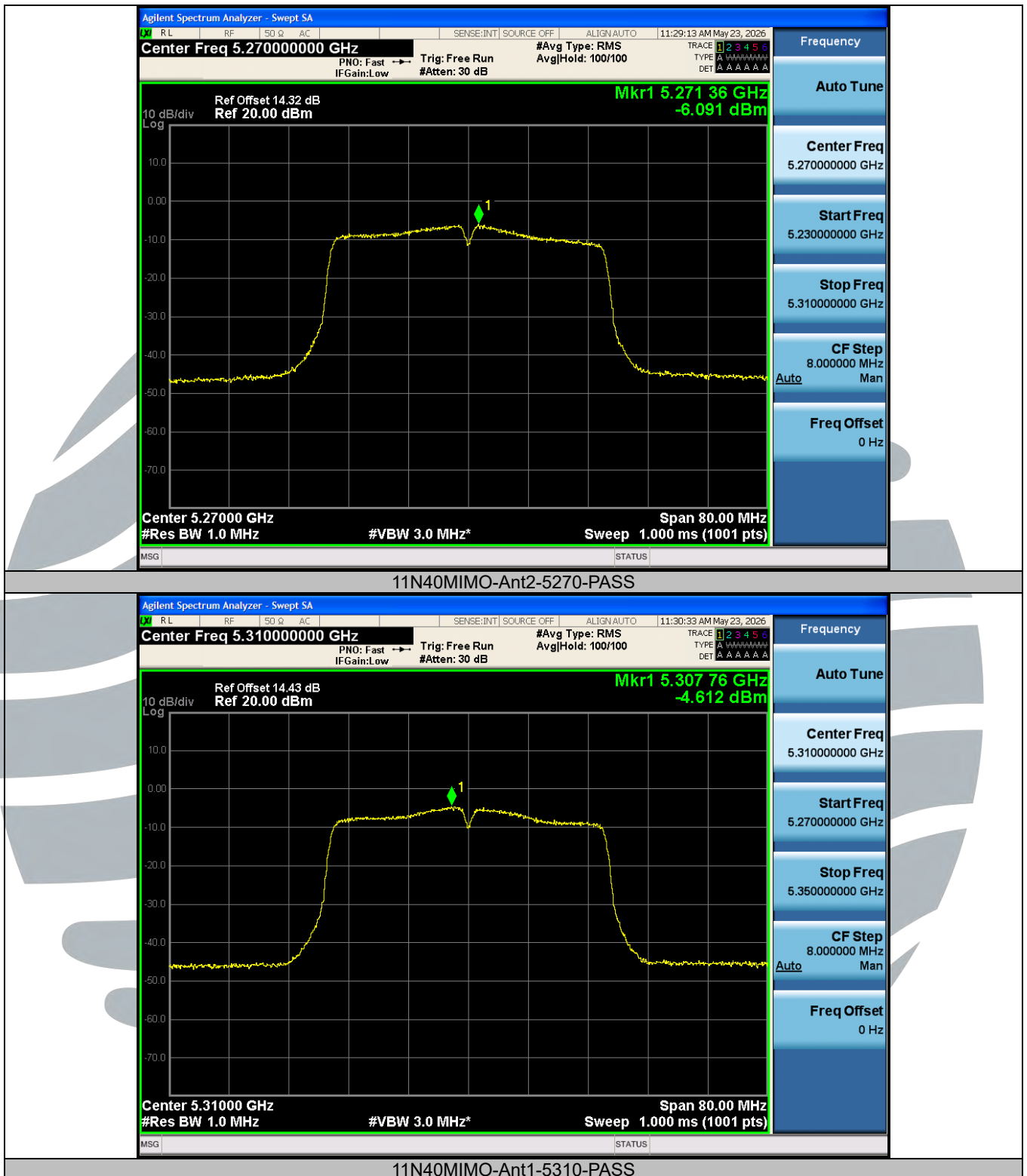
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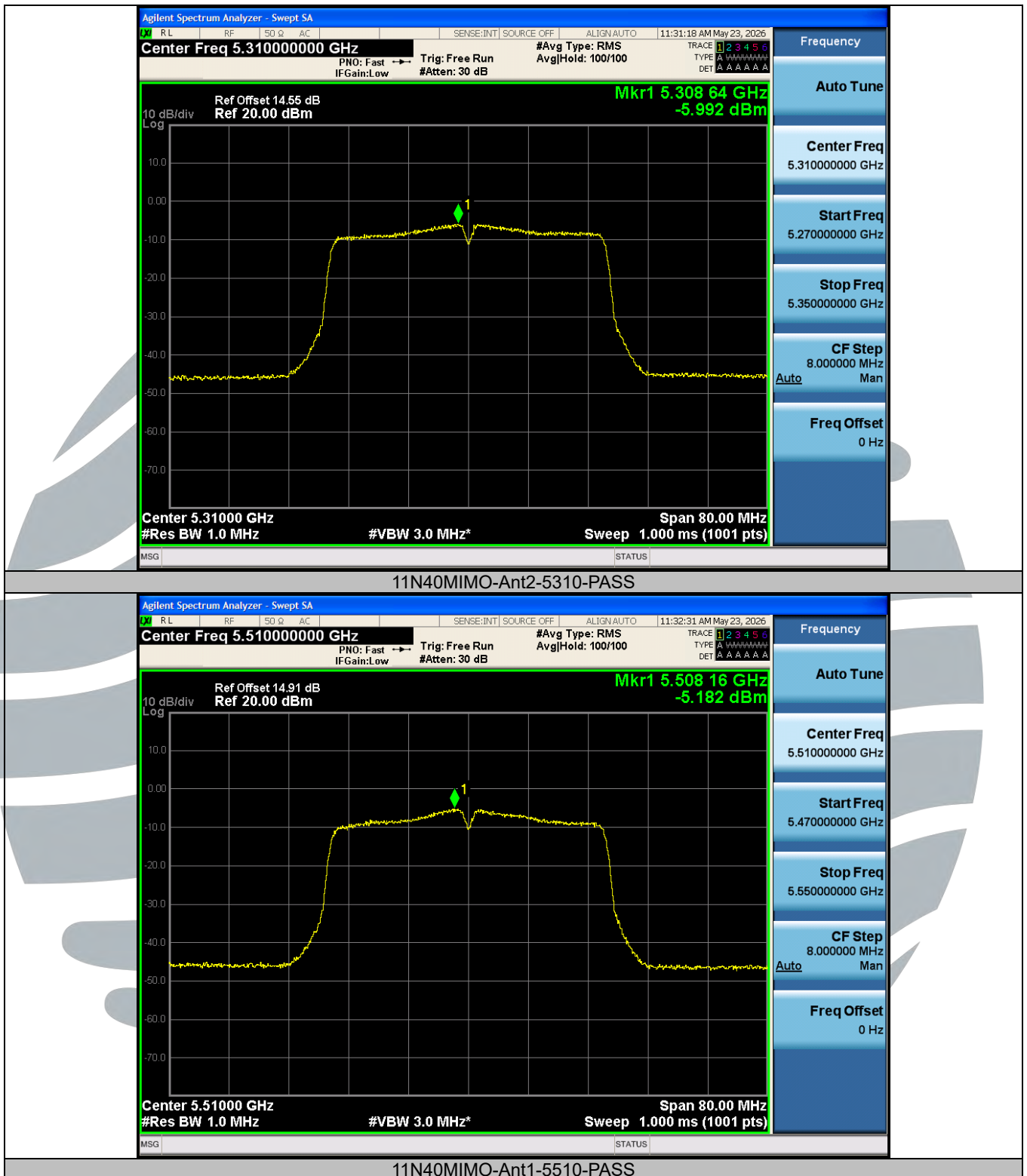
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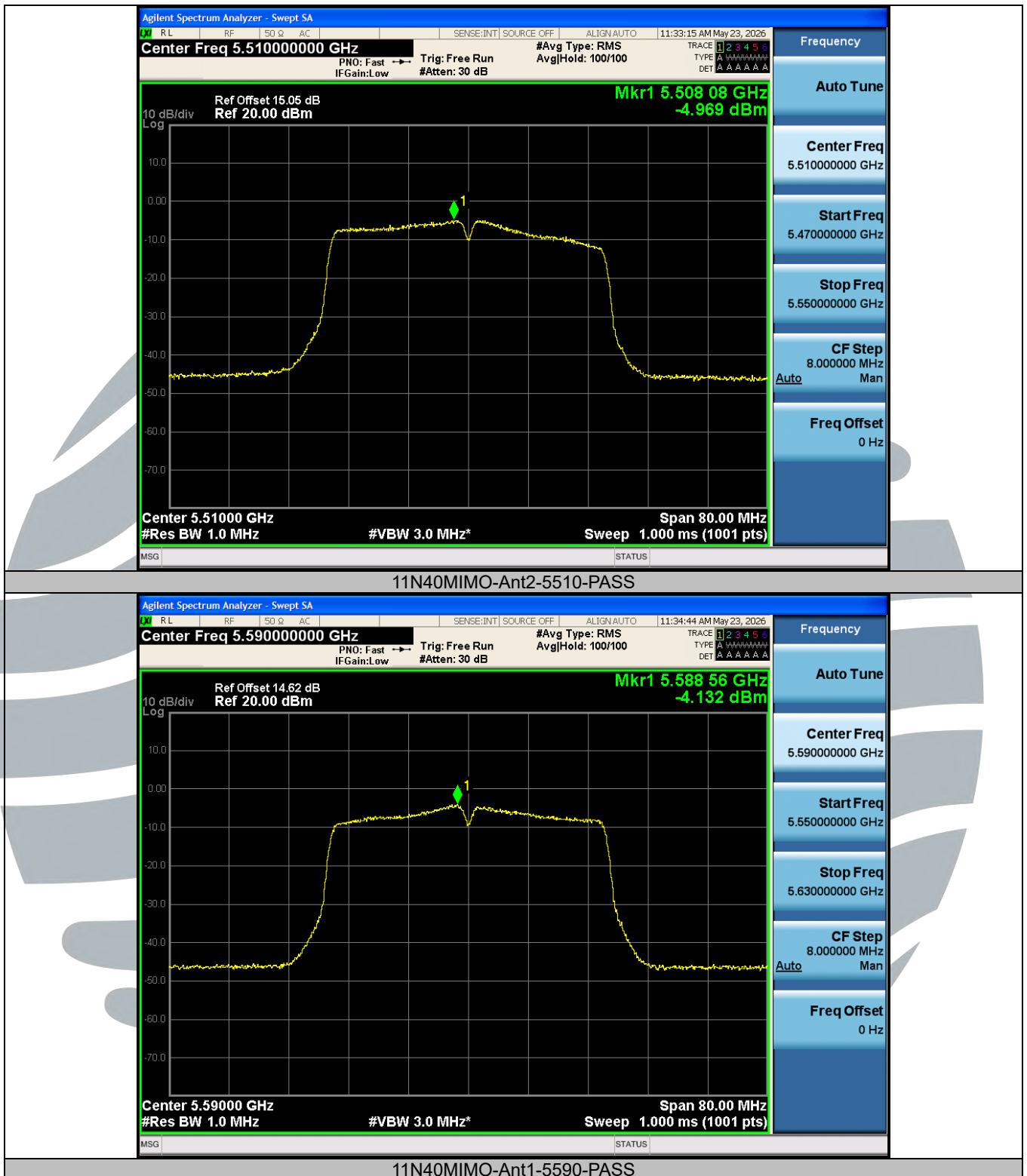
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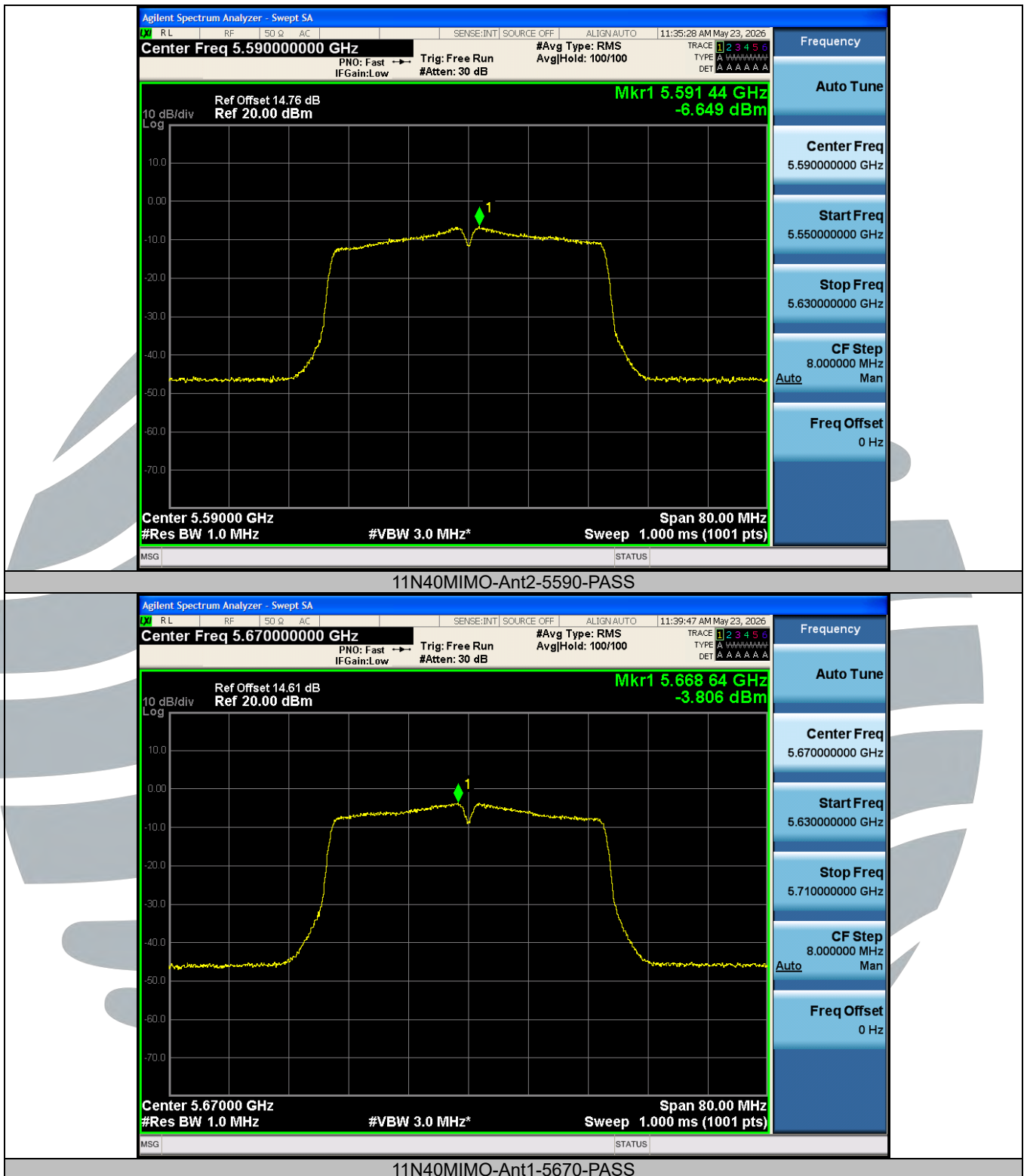
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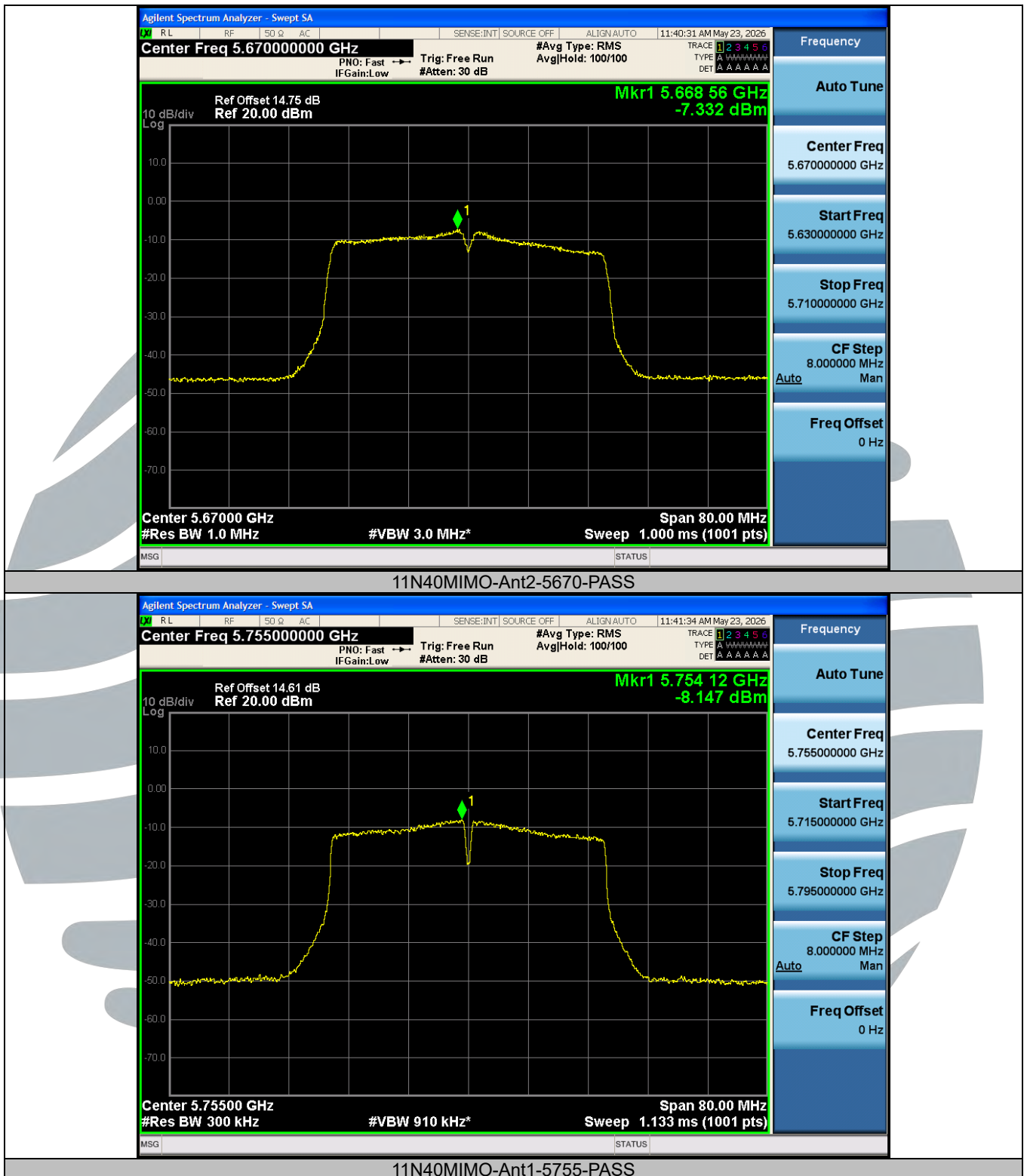
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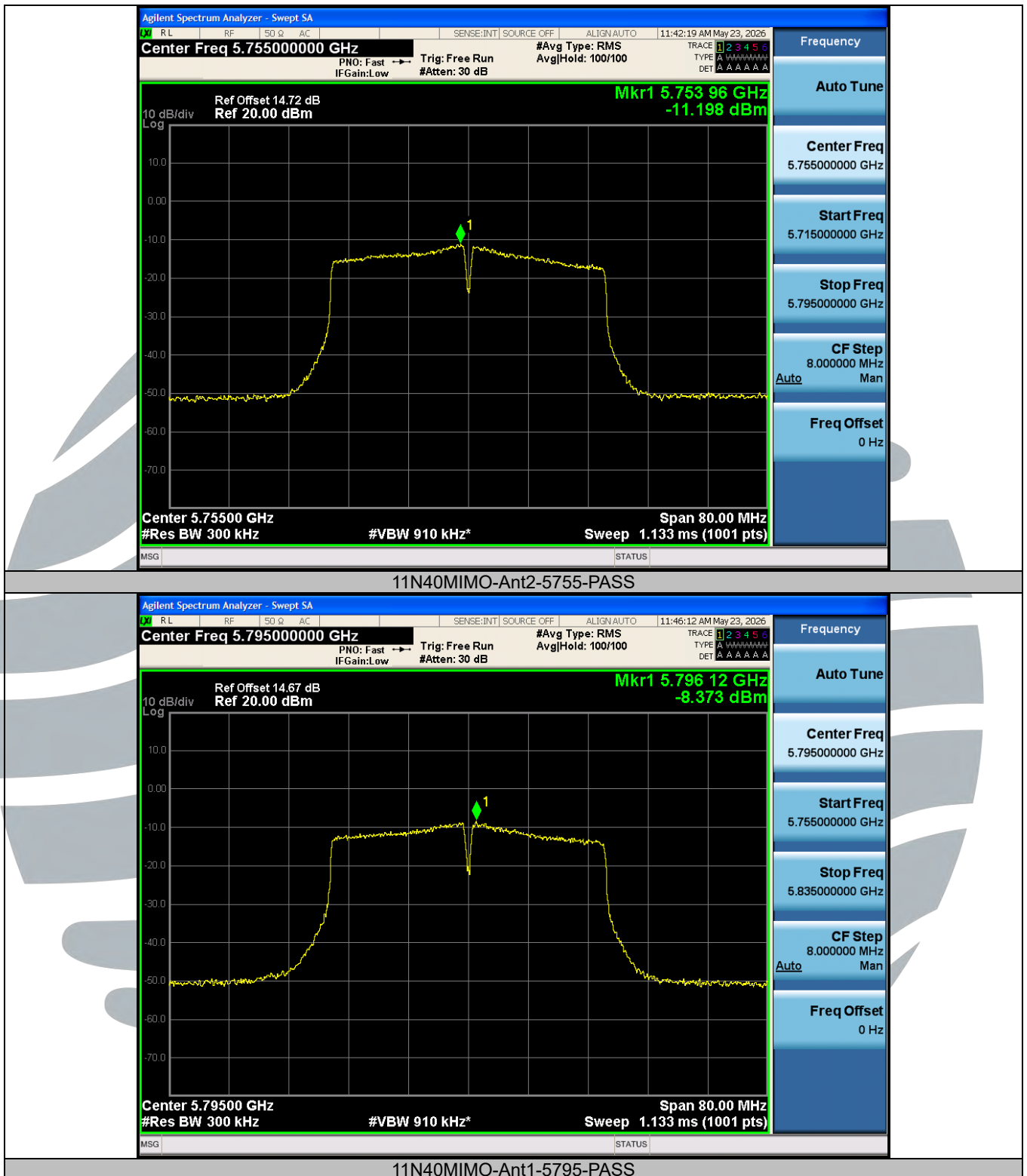
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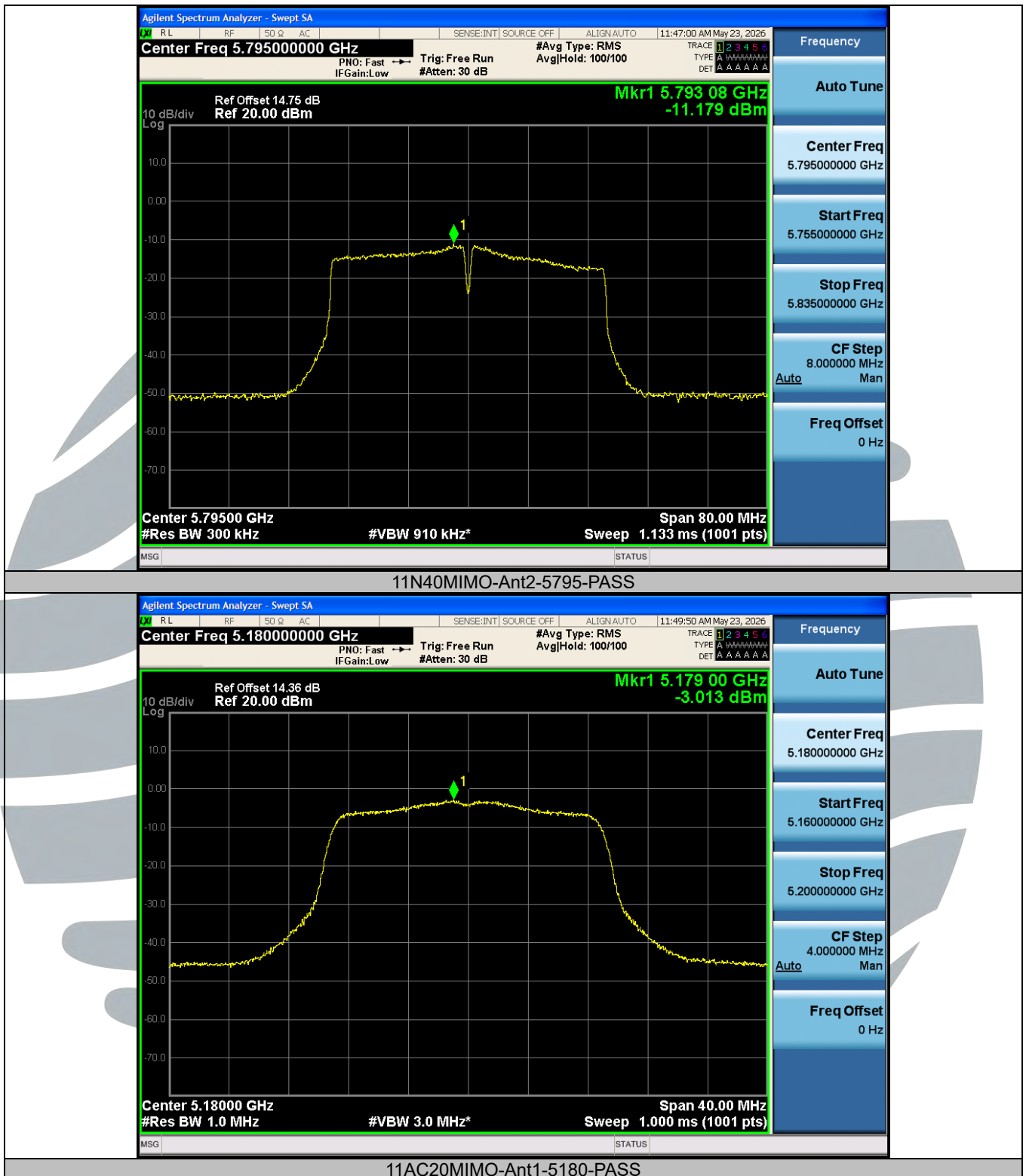
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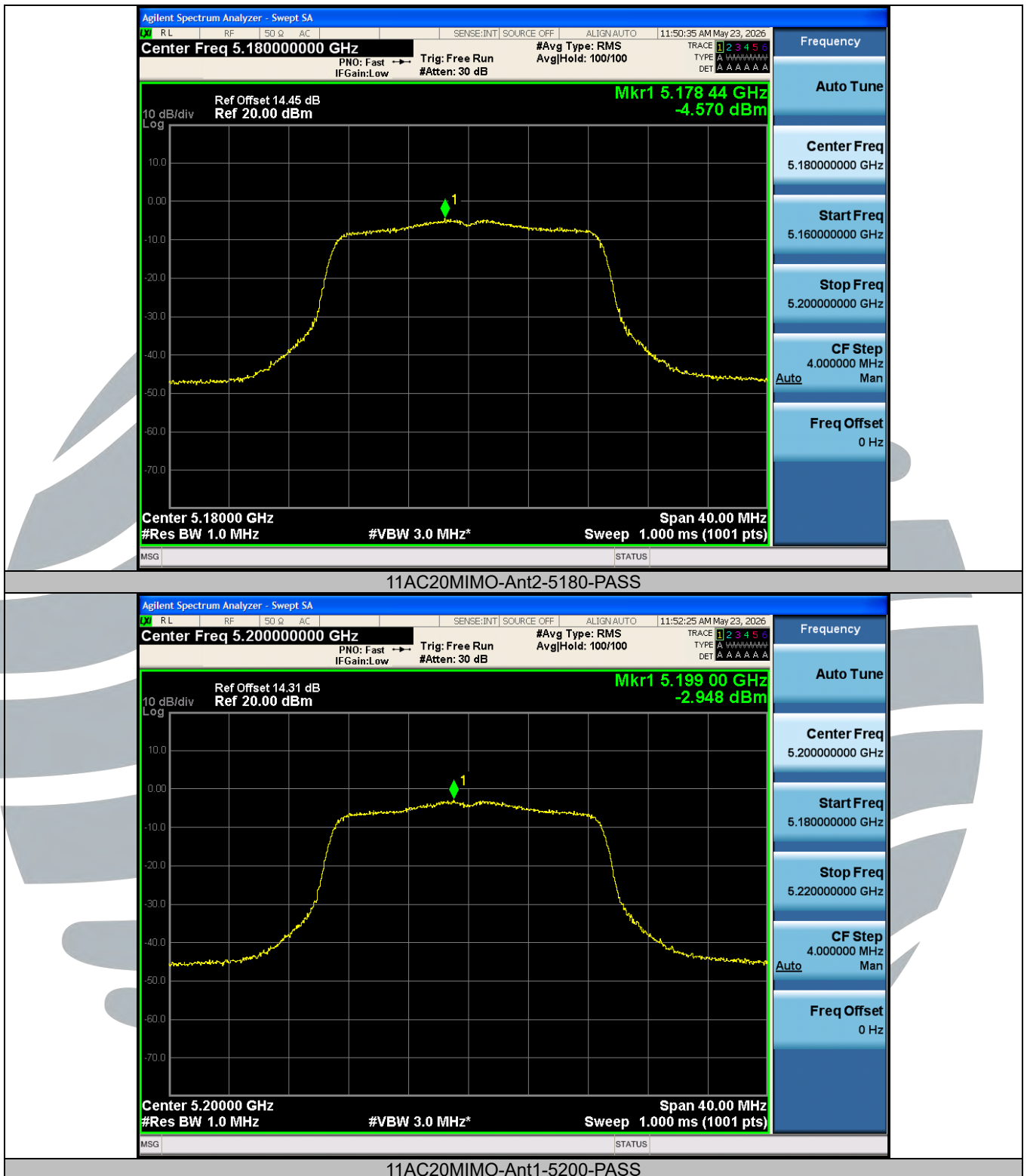
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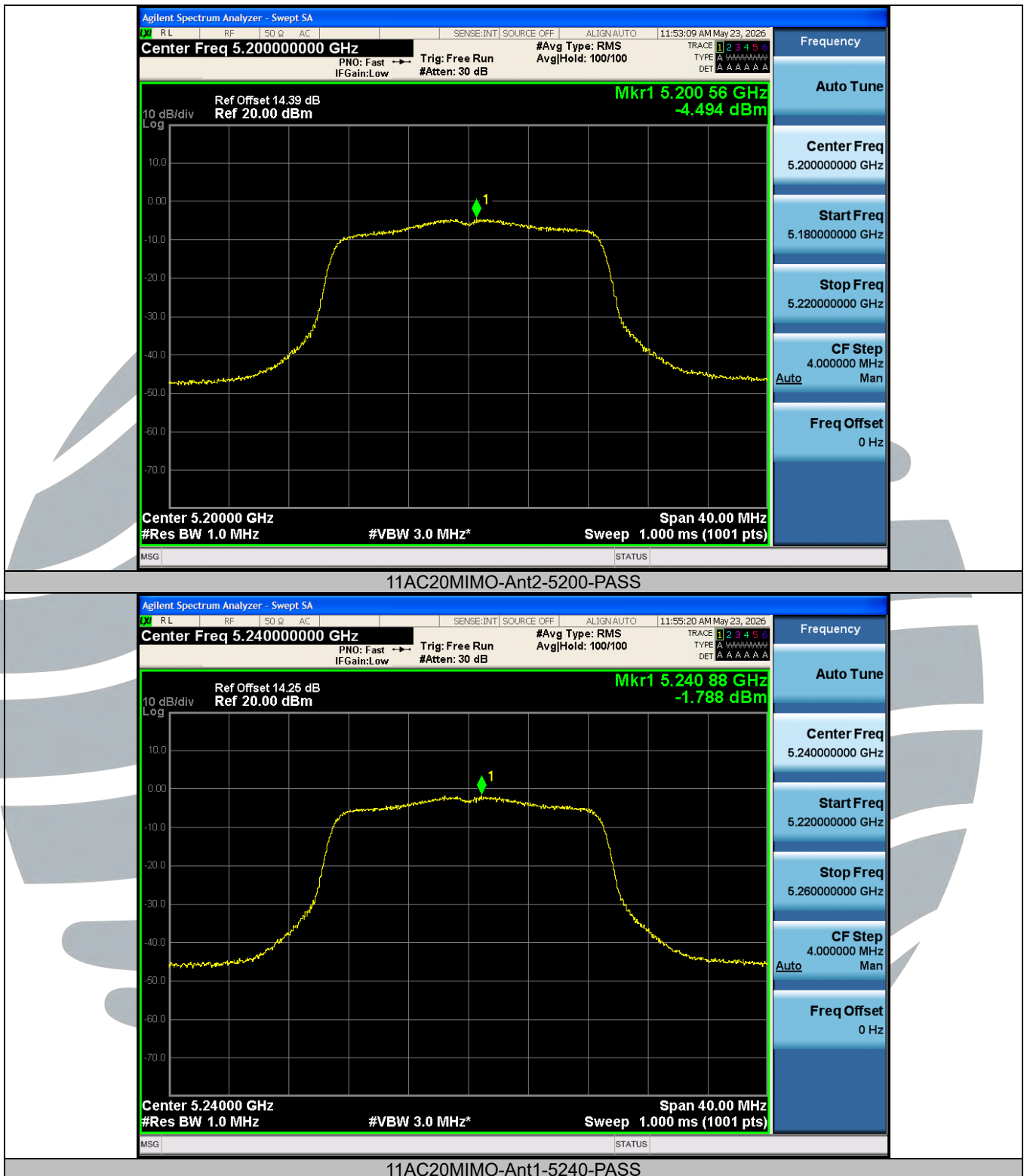
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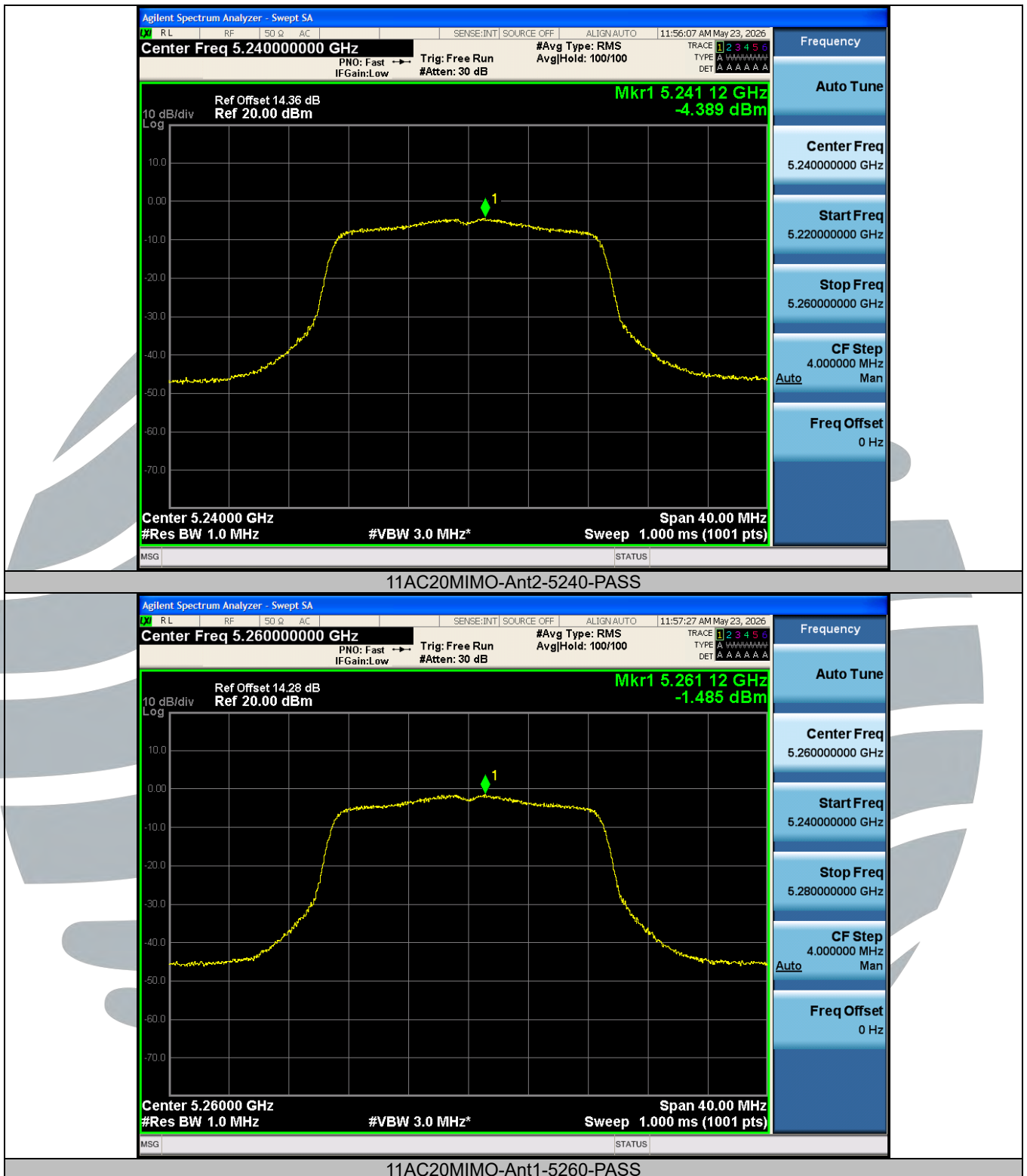
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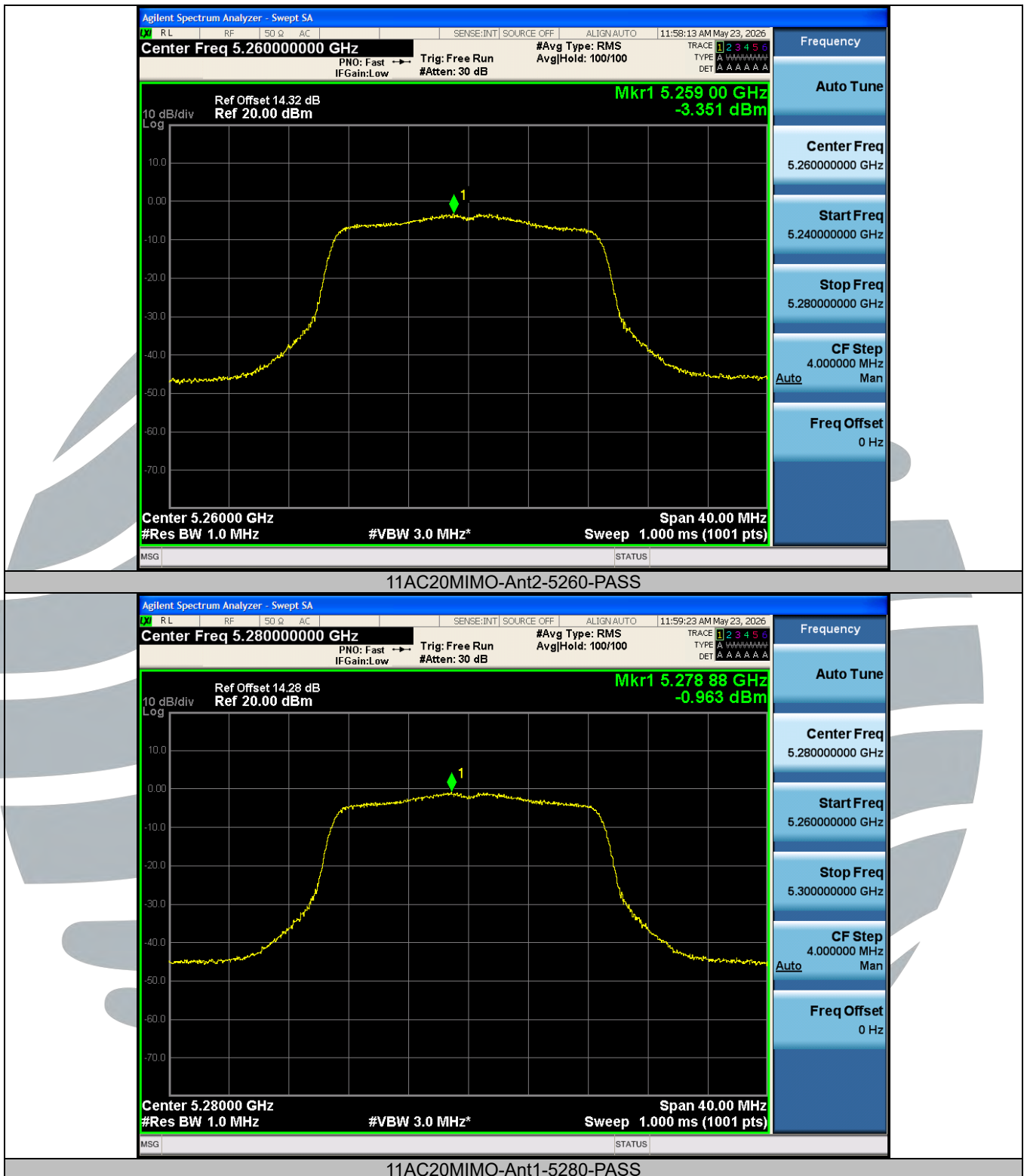
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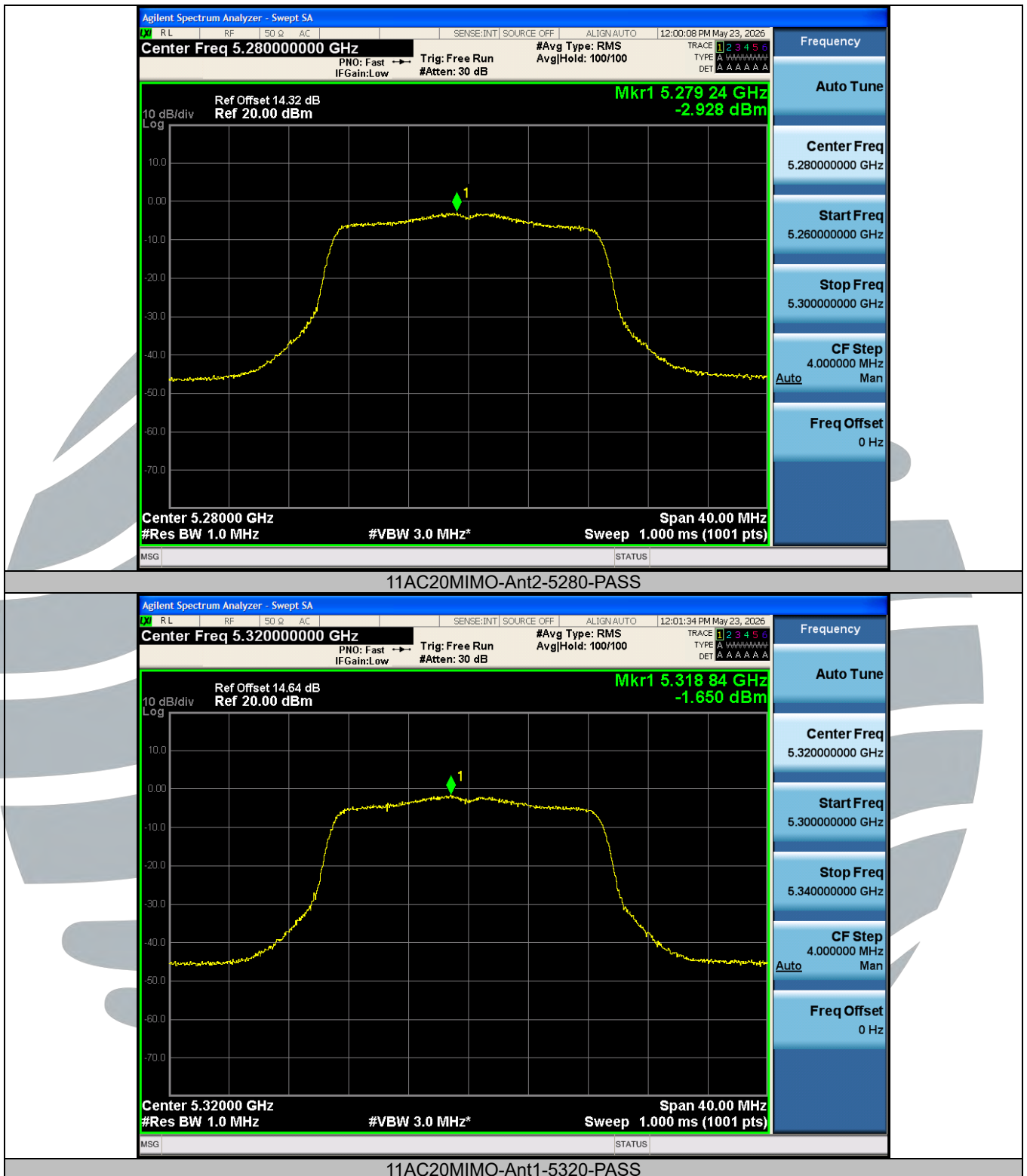
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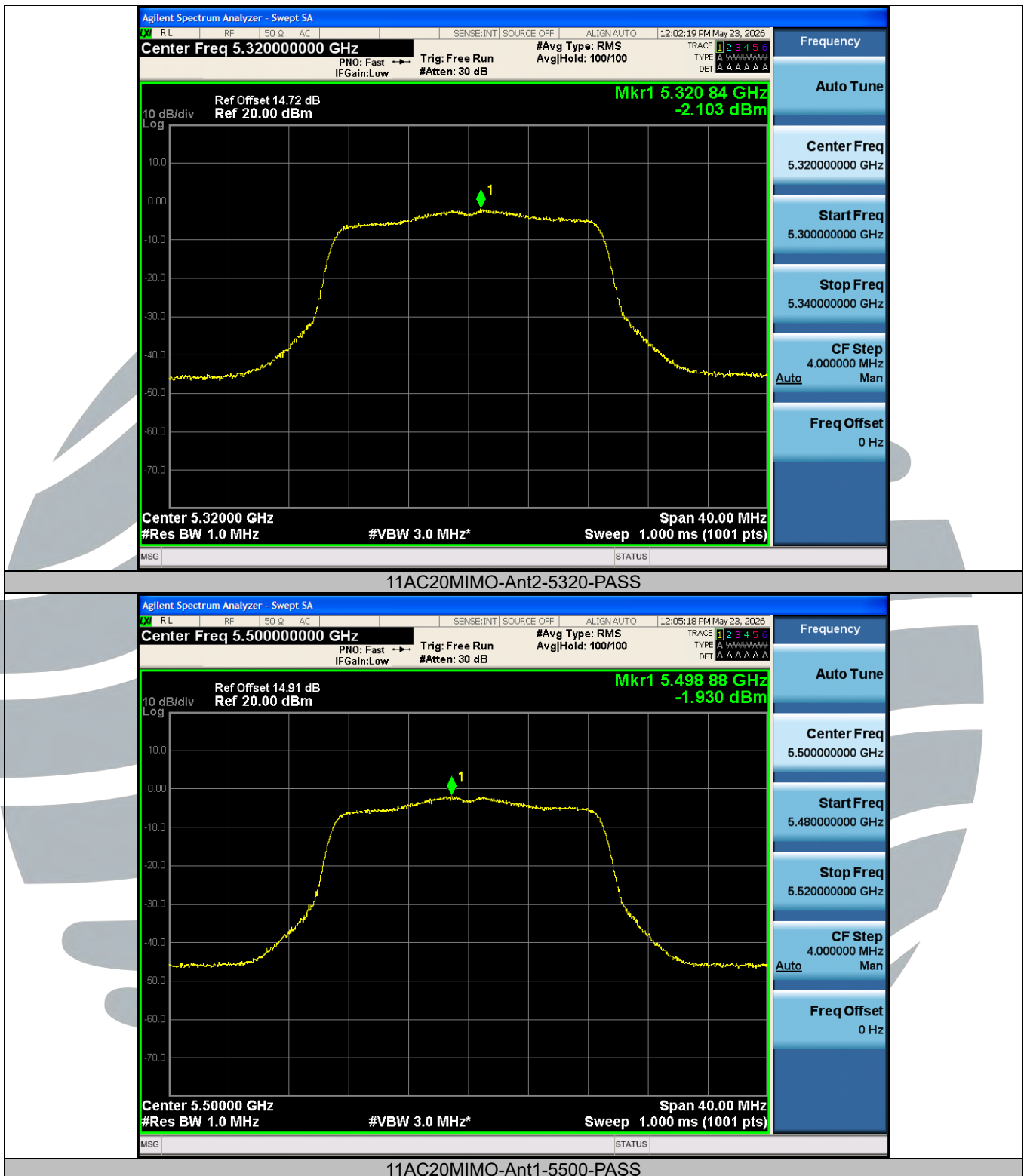
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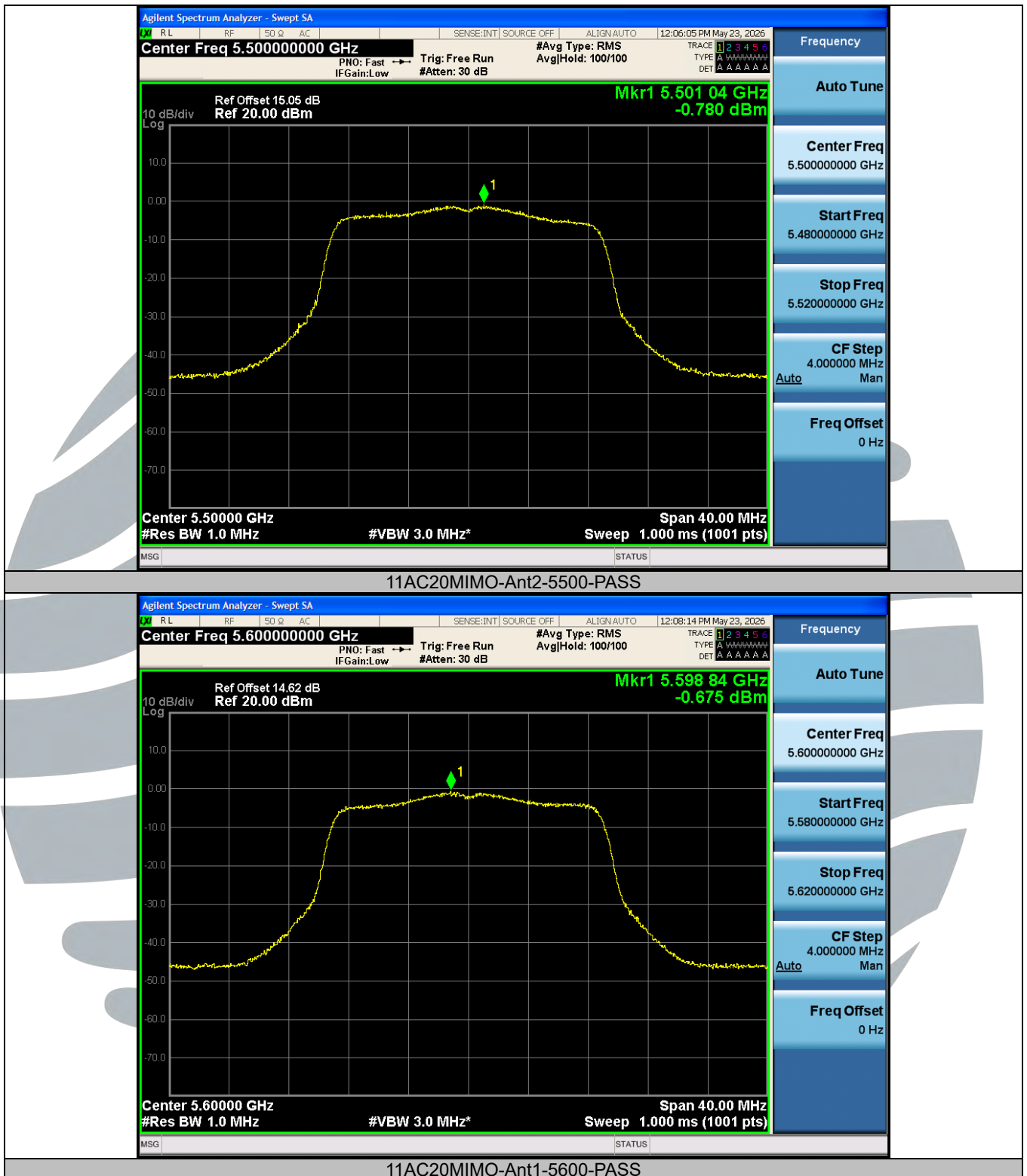
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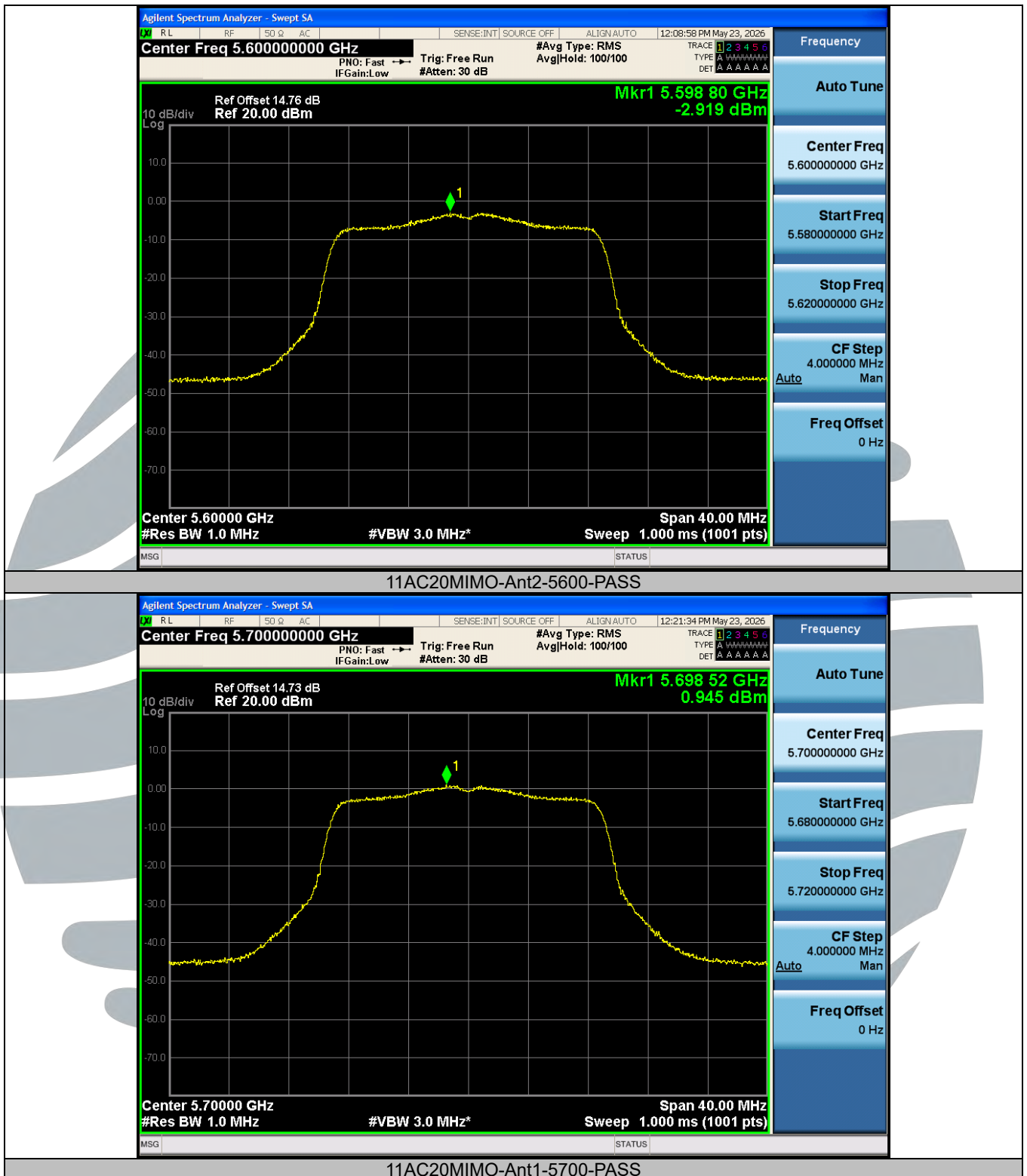
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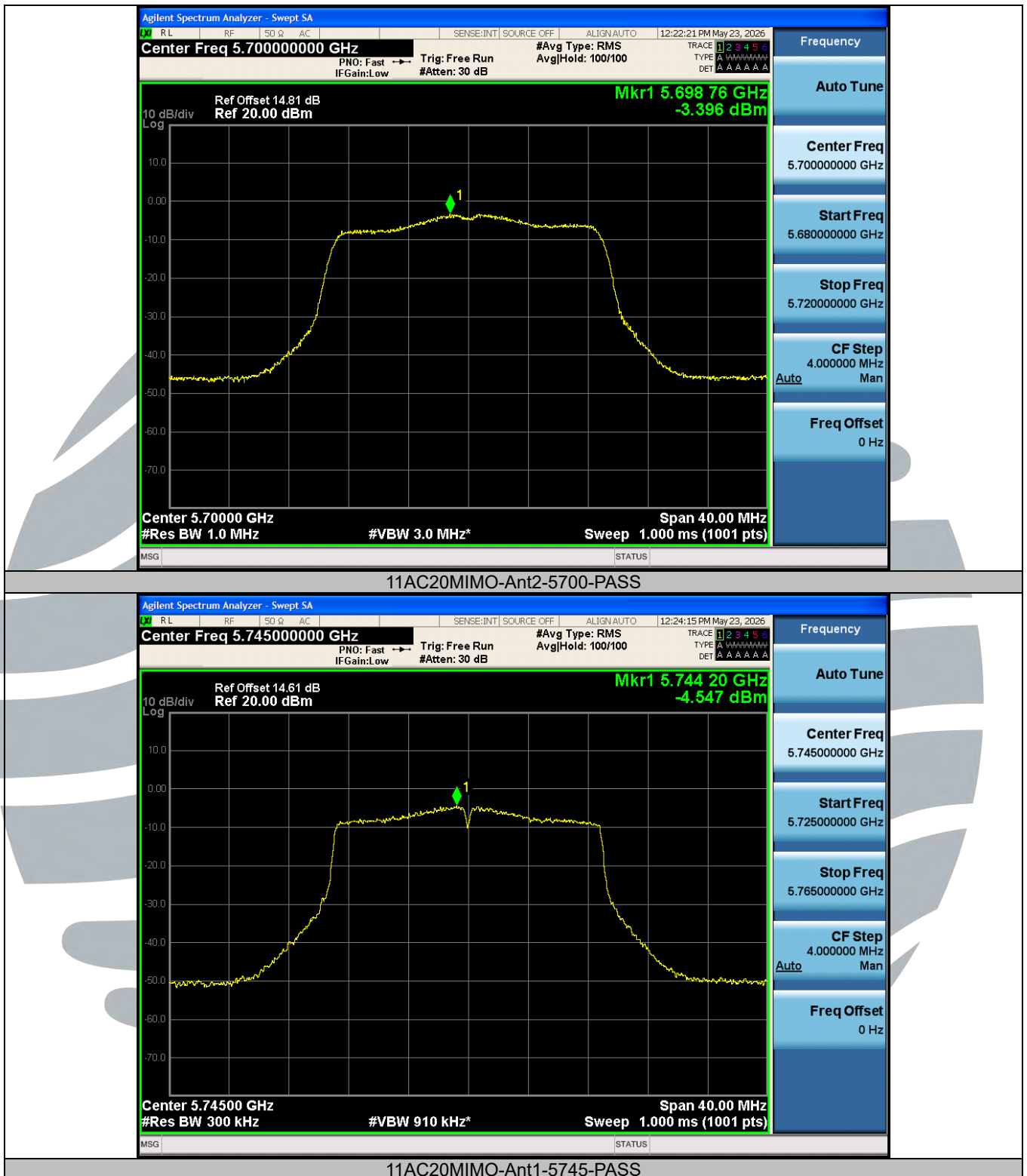
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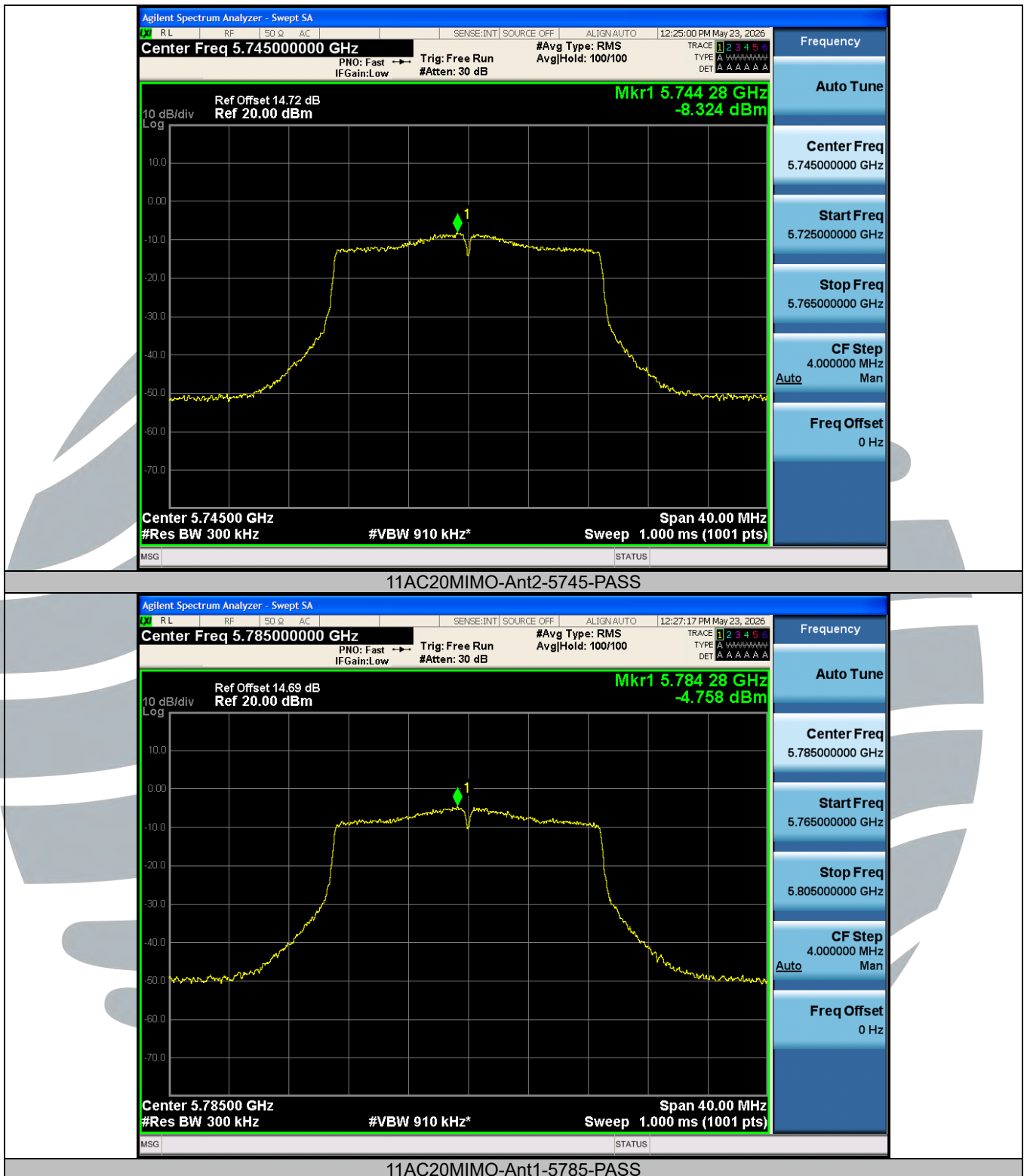
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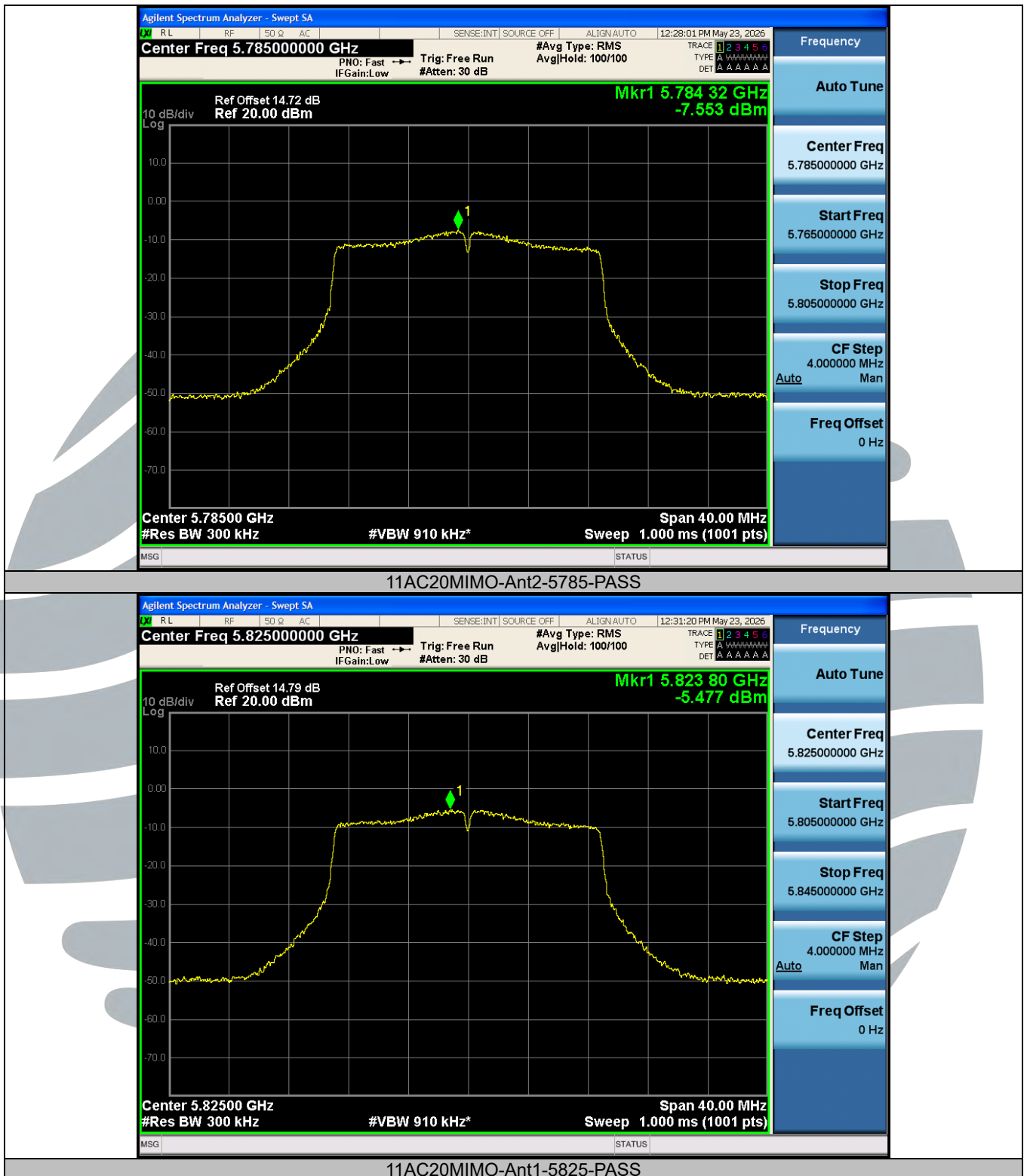
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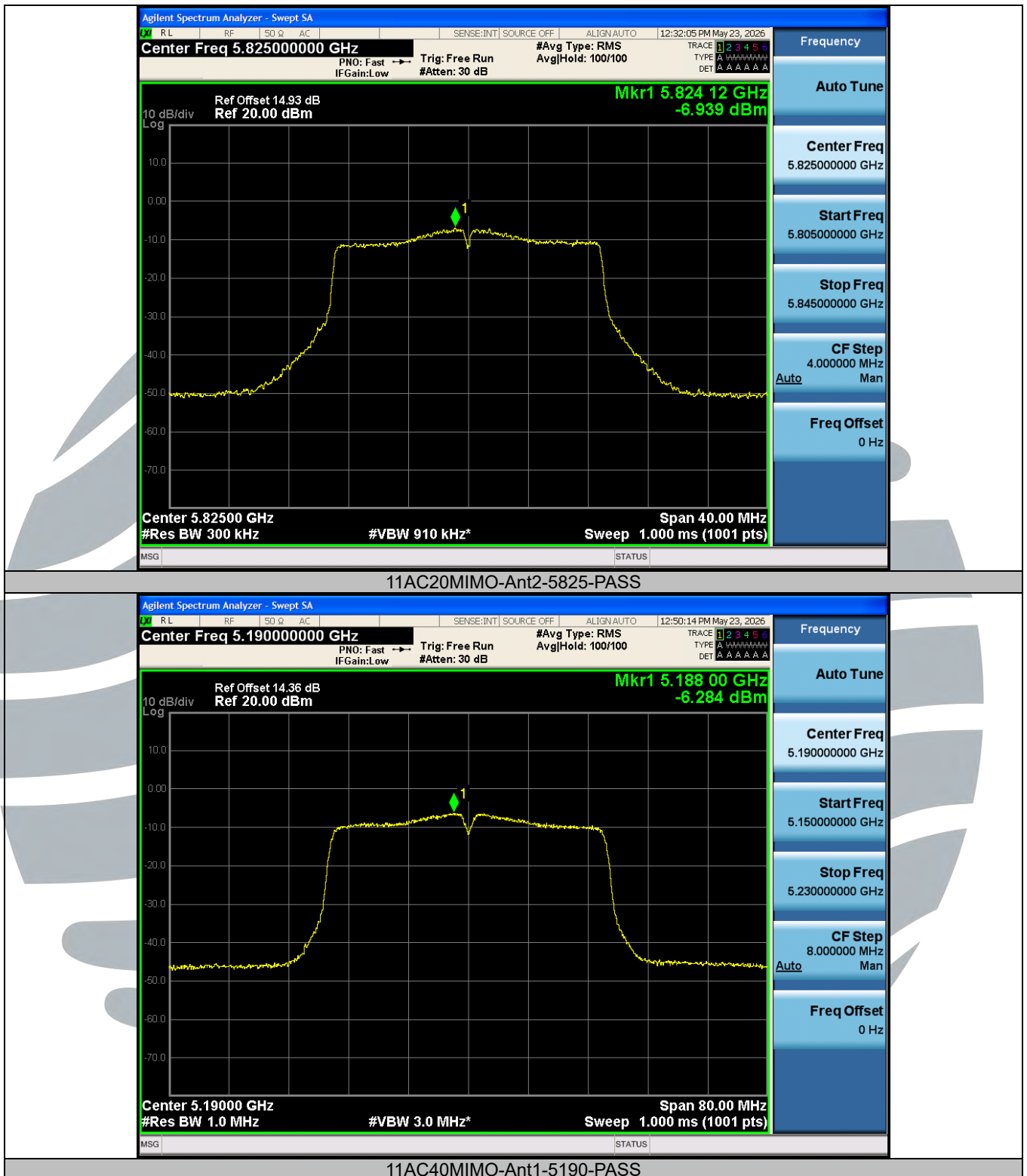
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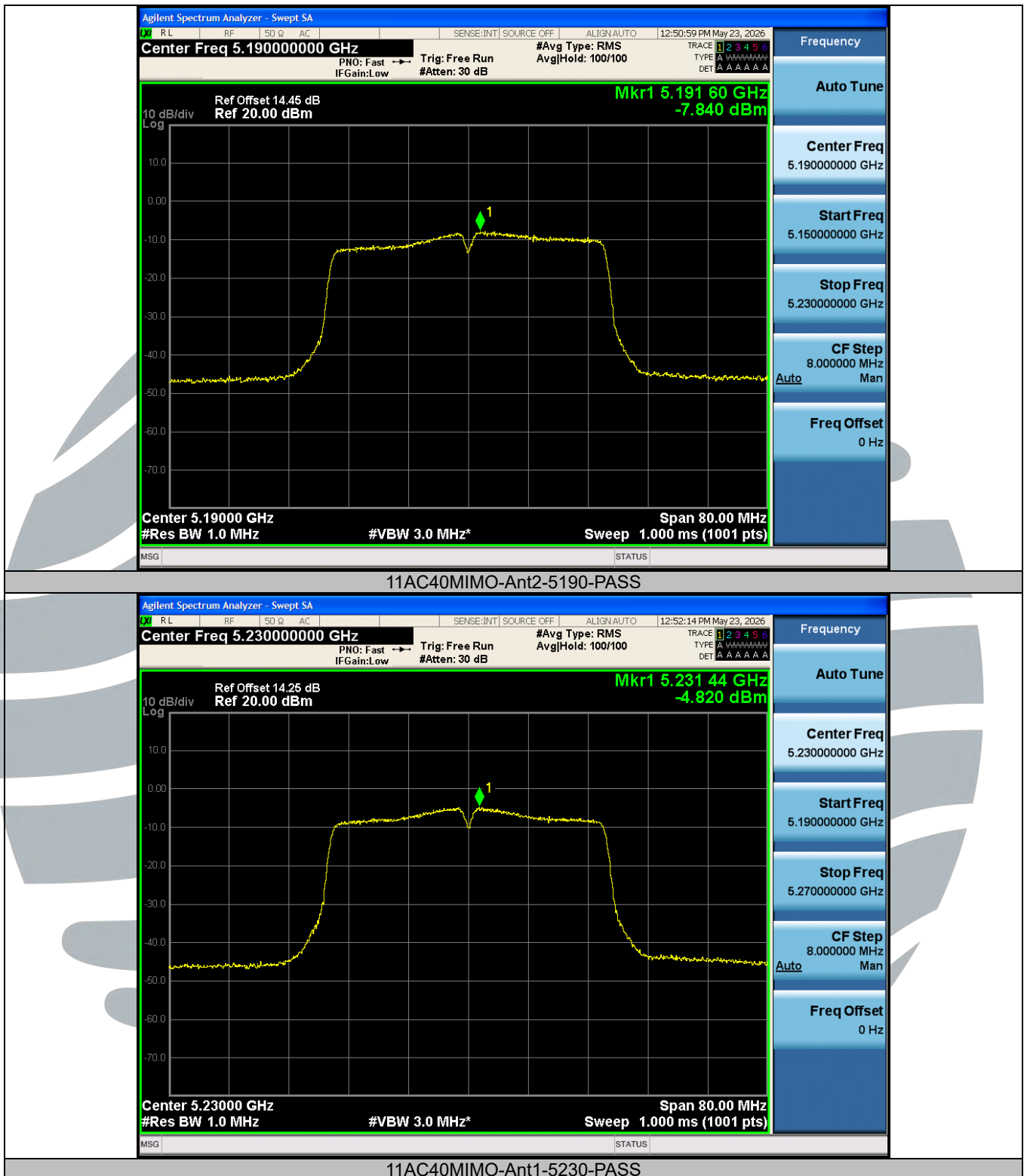
Tel: +86-755-28230888

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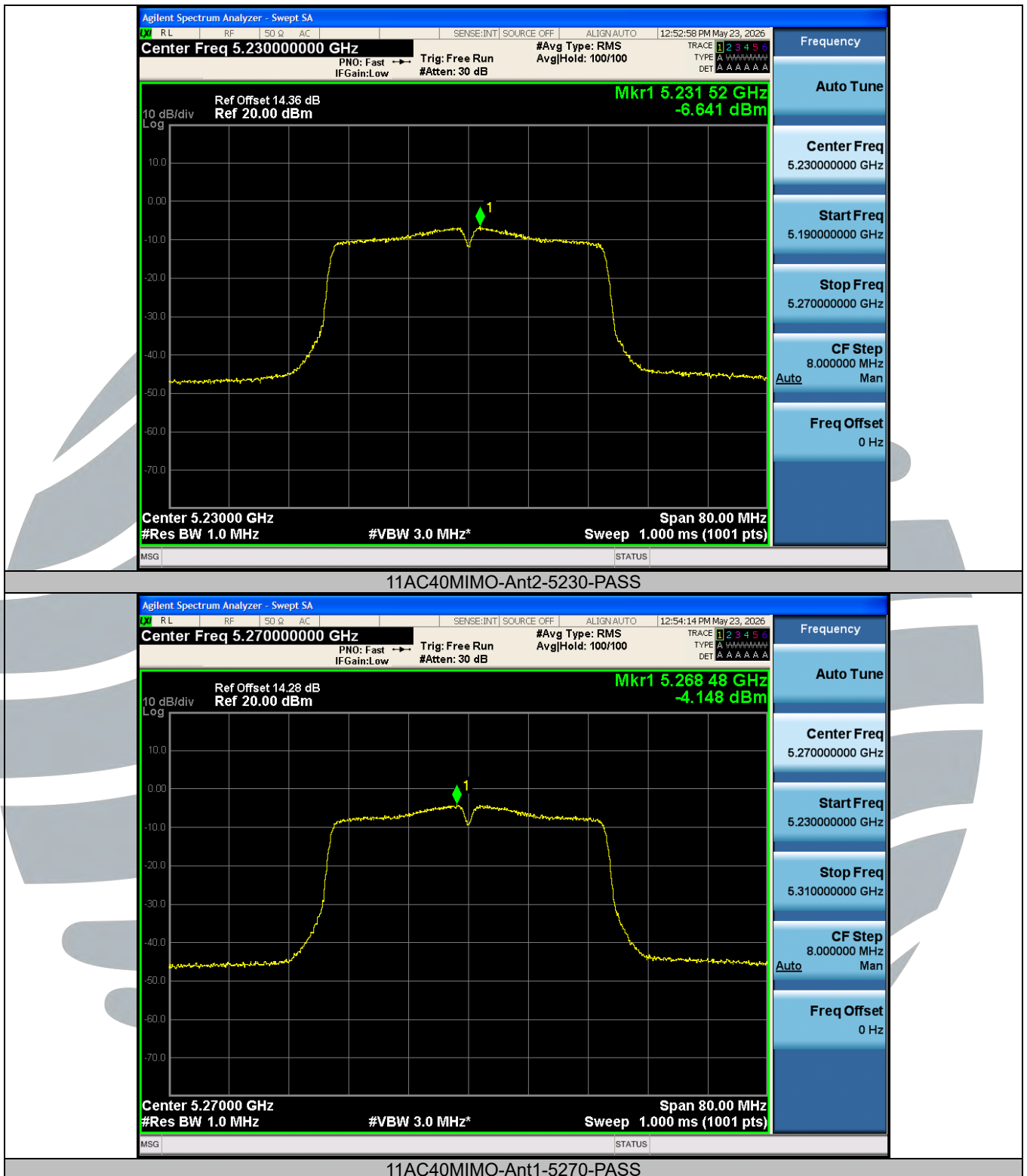
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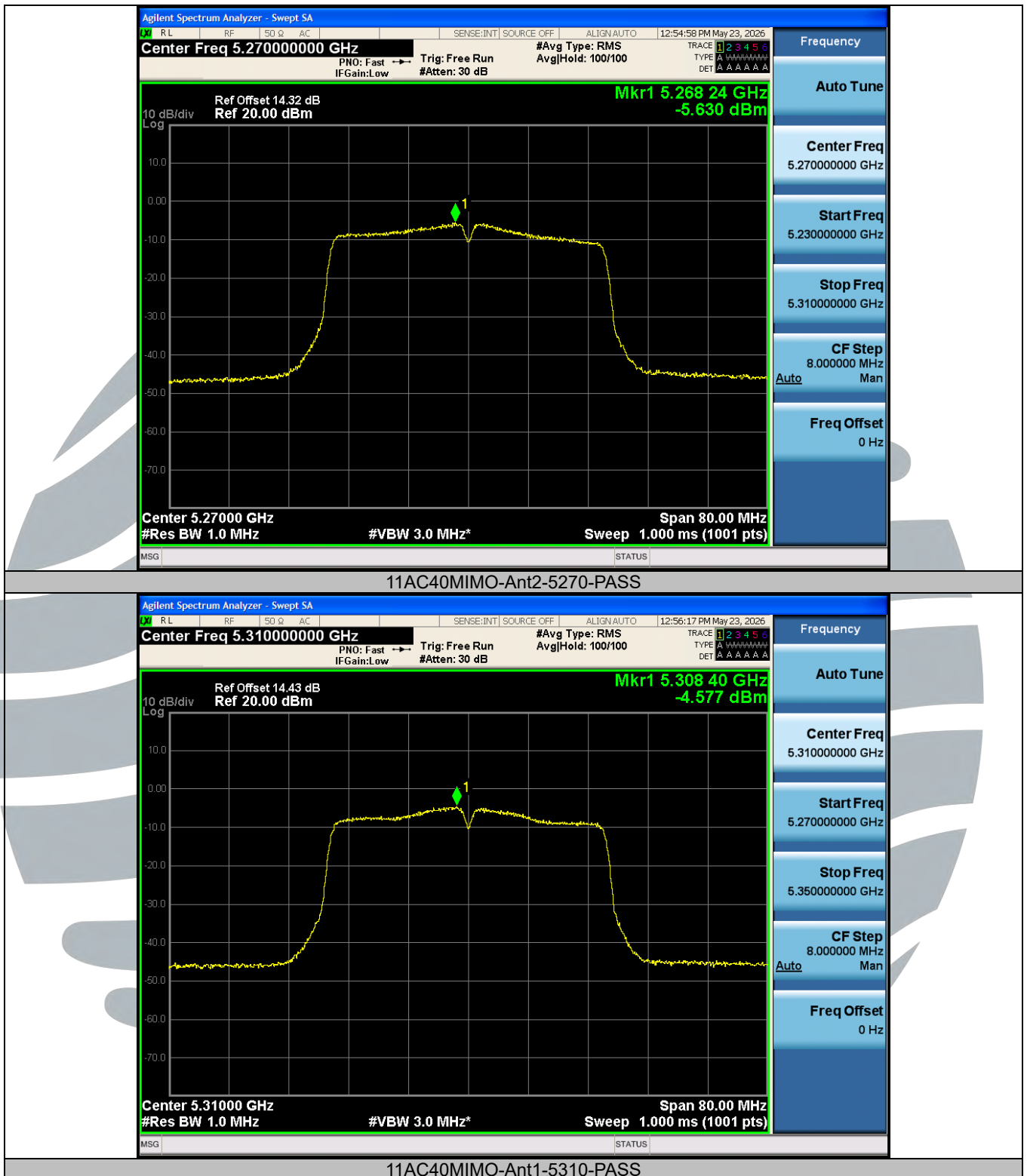
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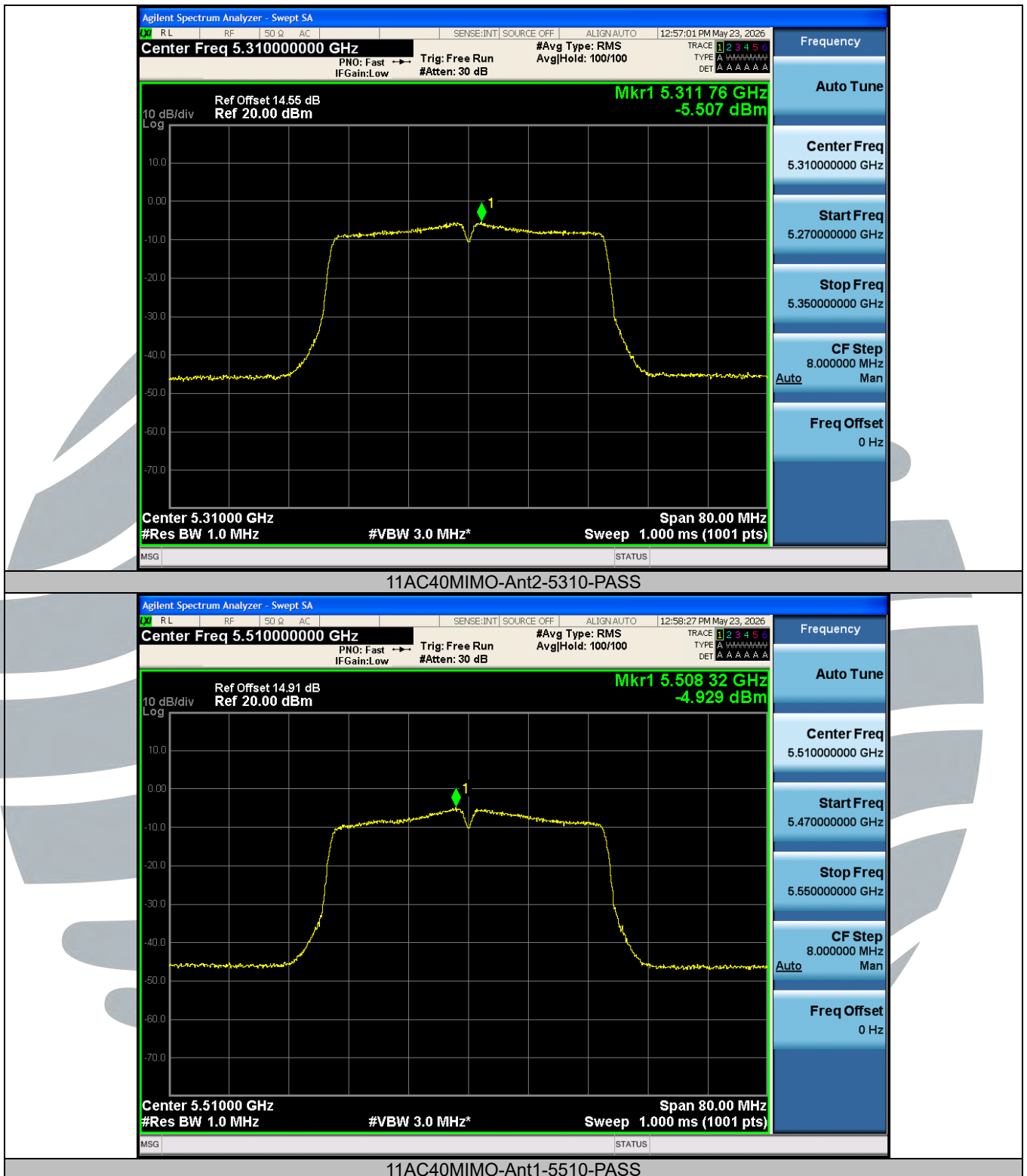
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