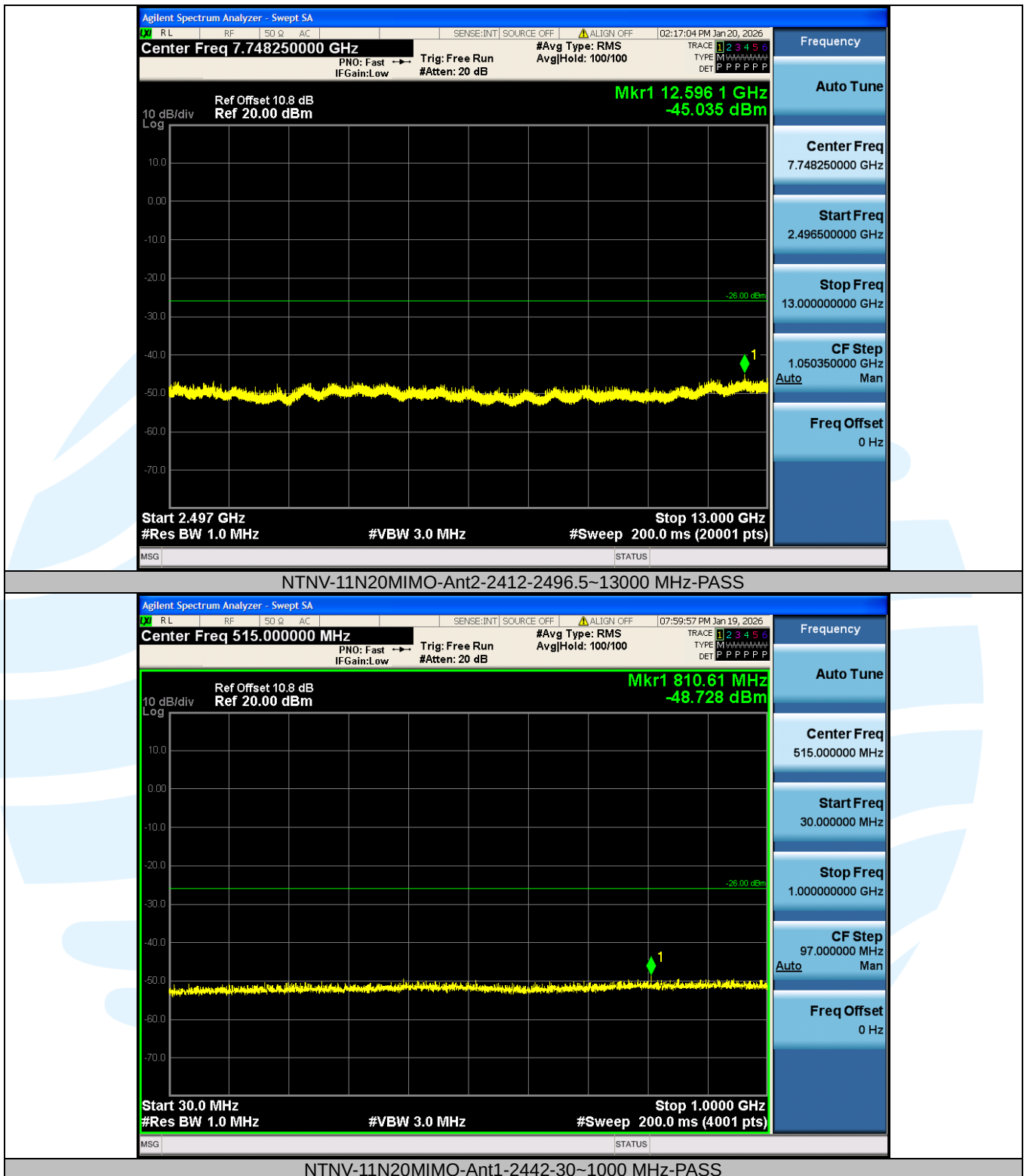




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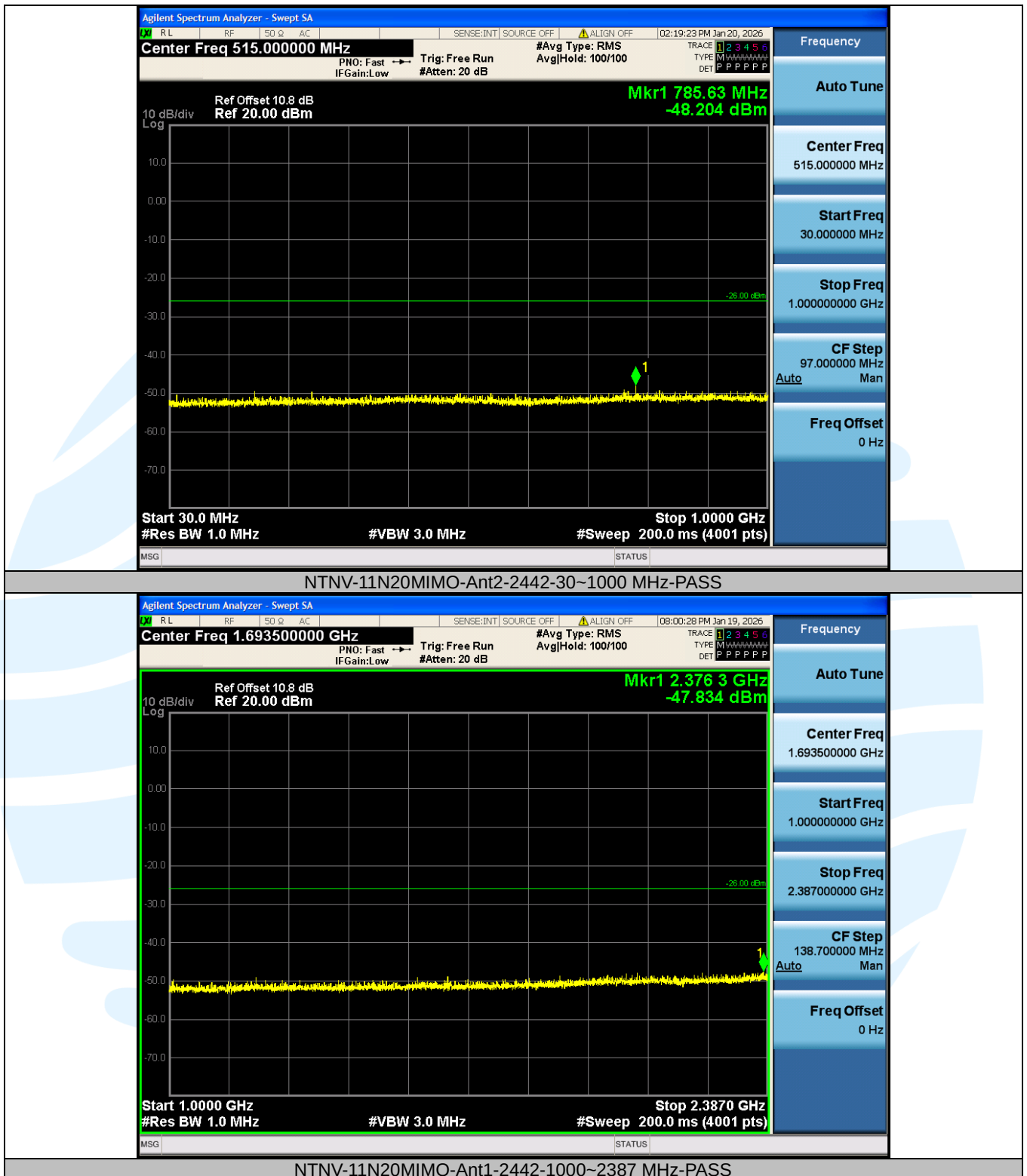
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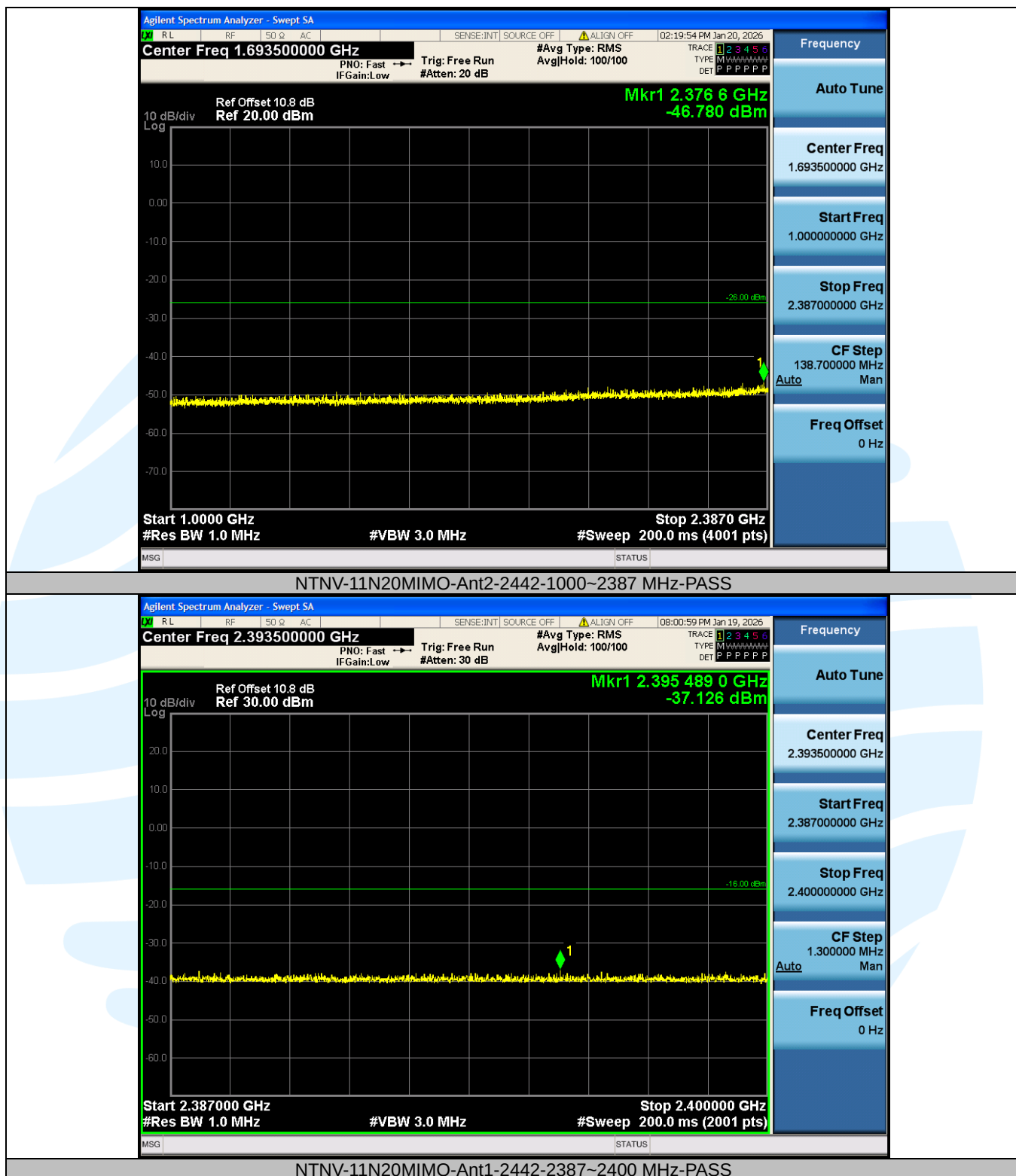
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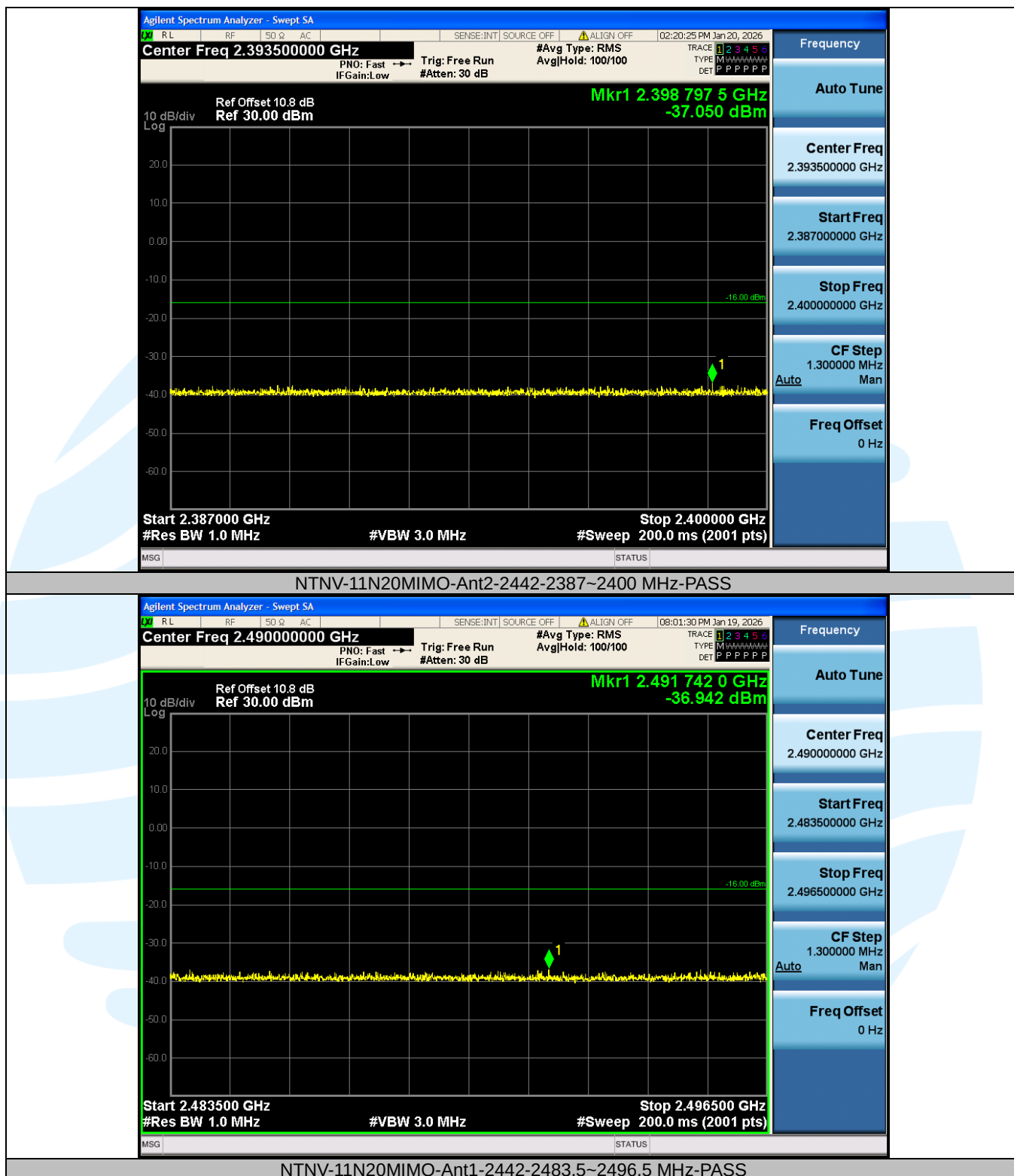
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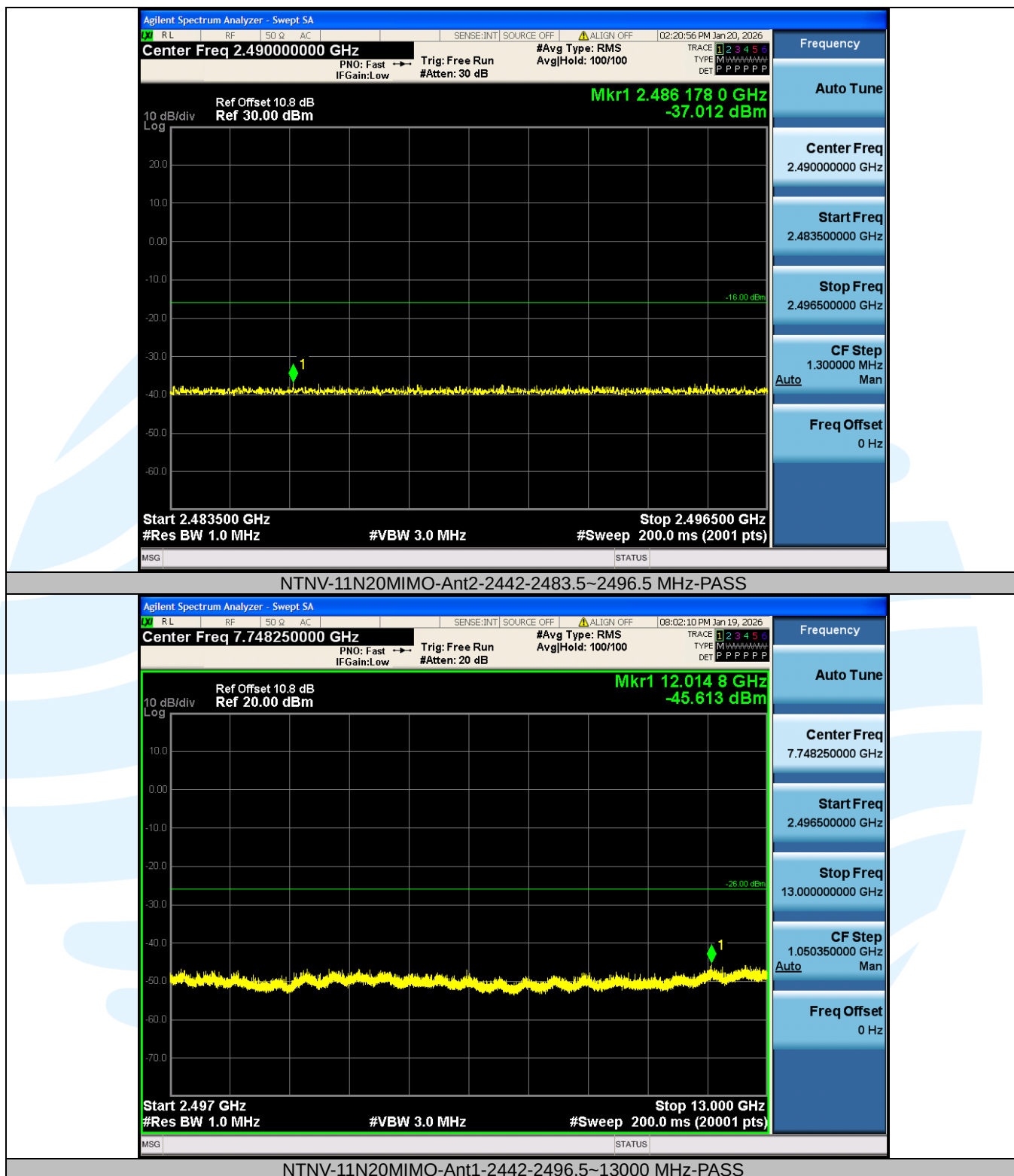
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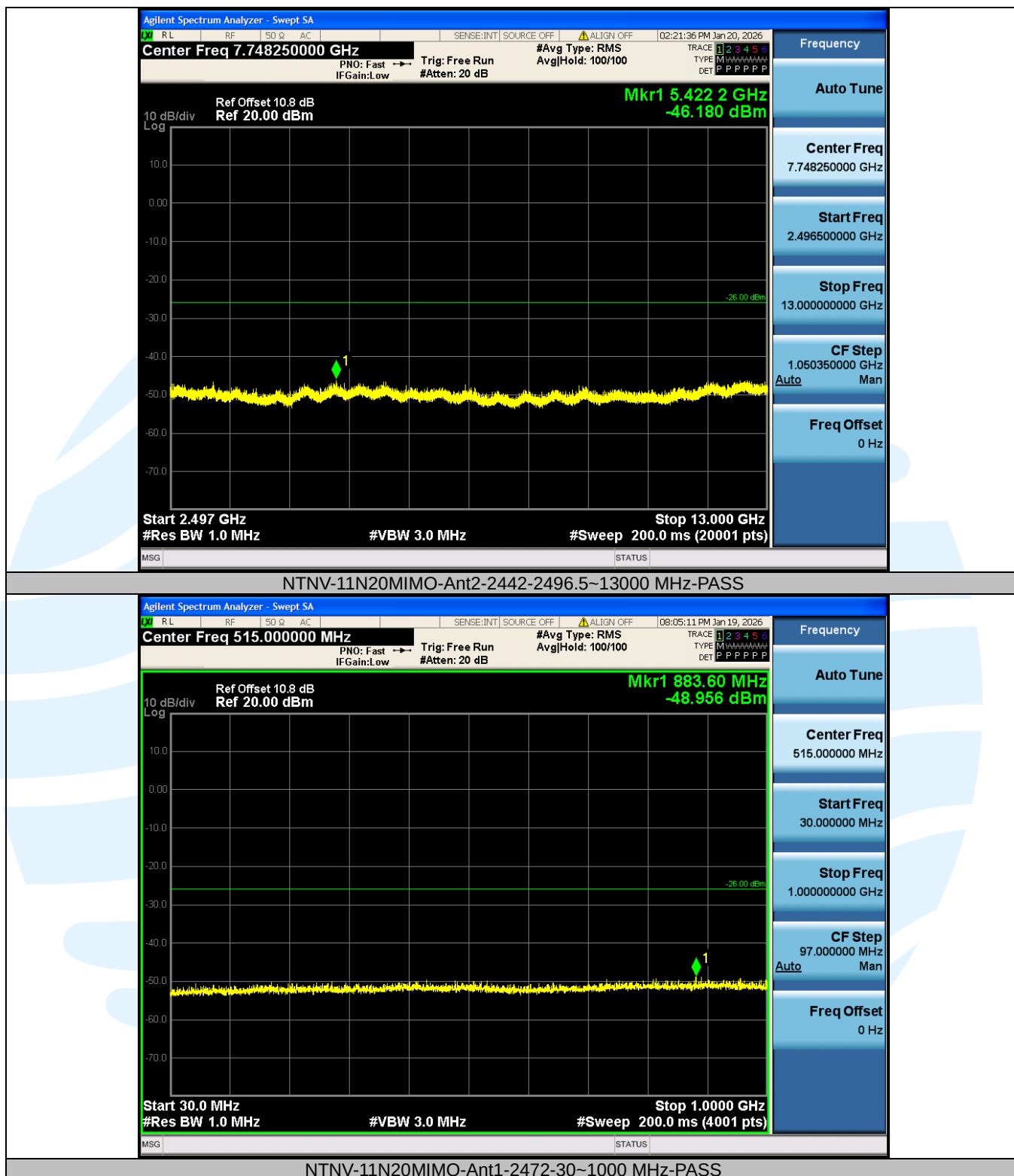
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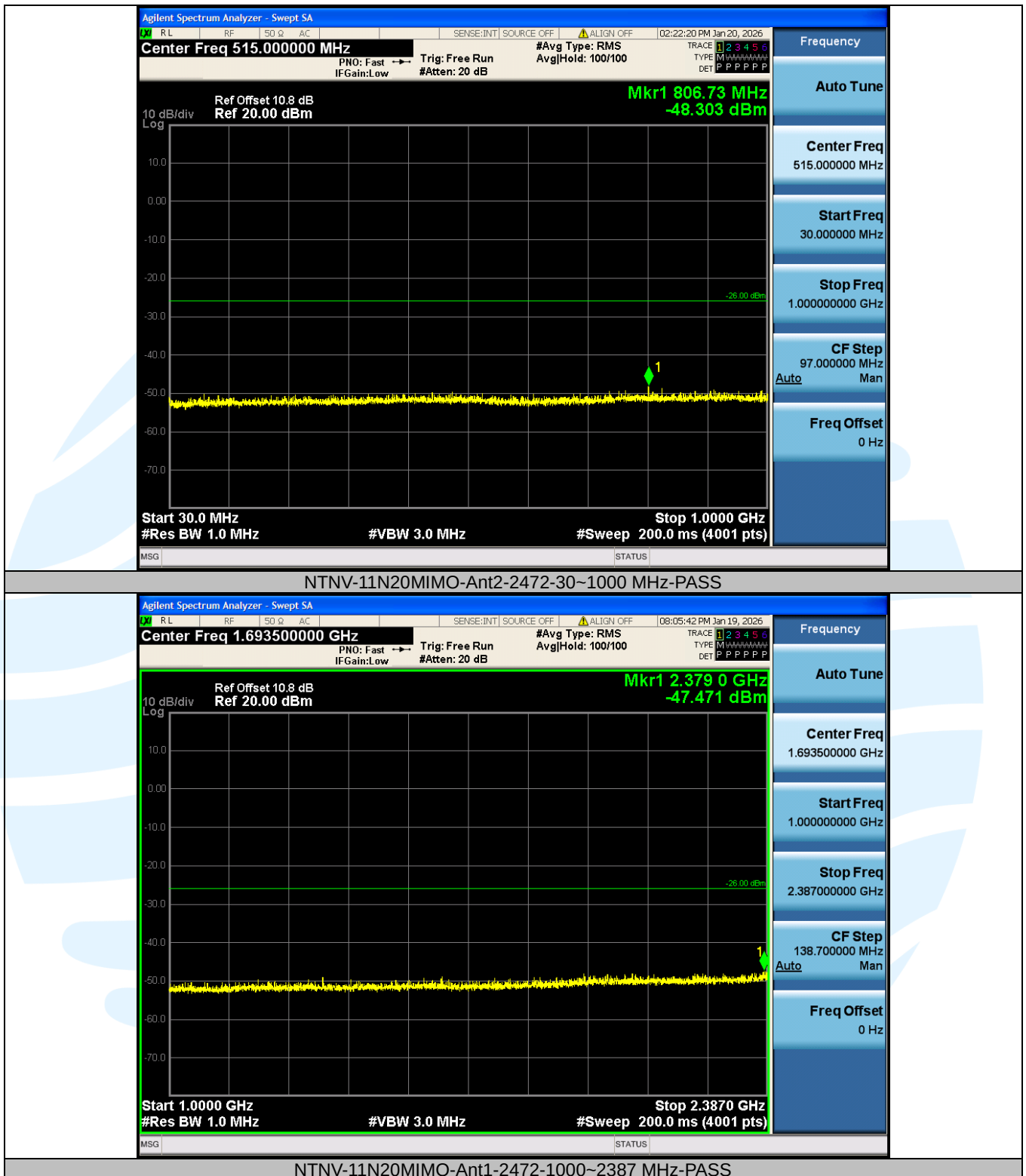
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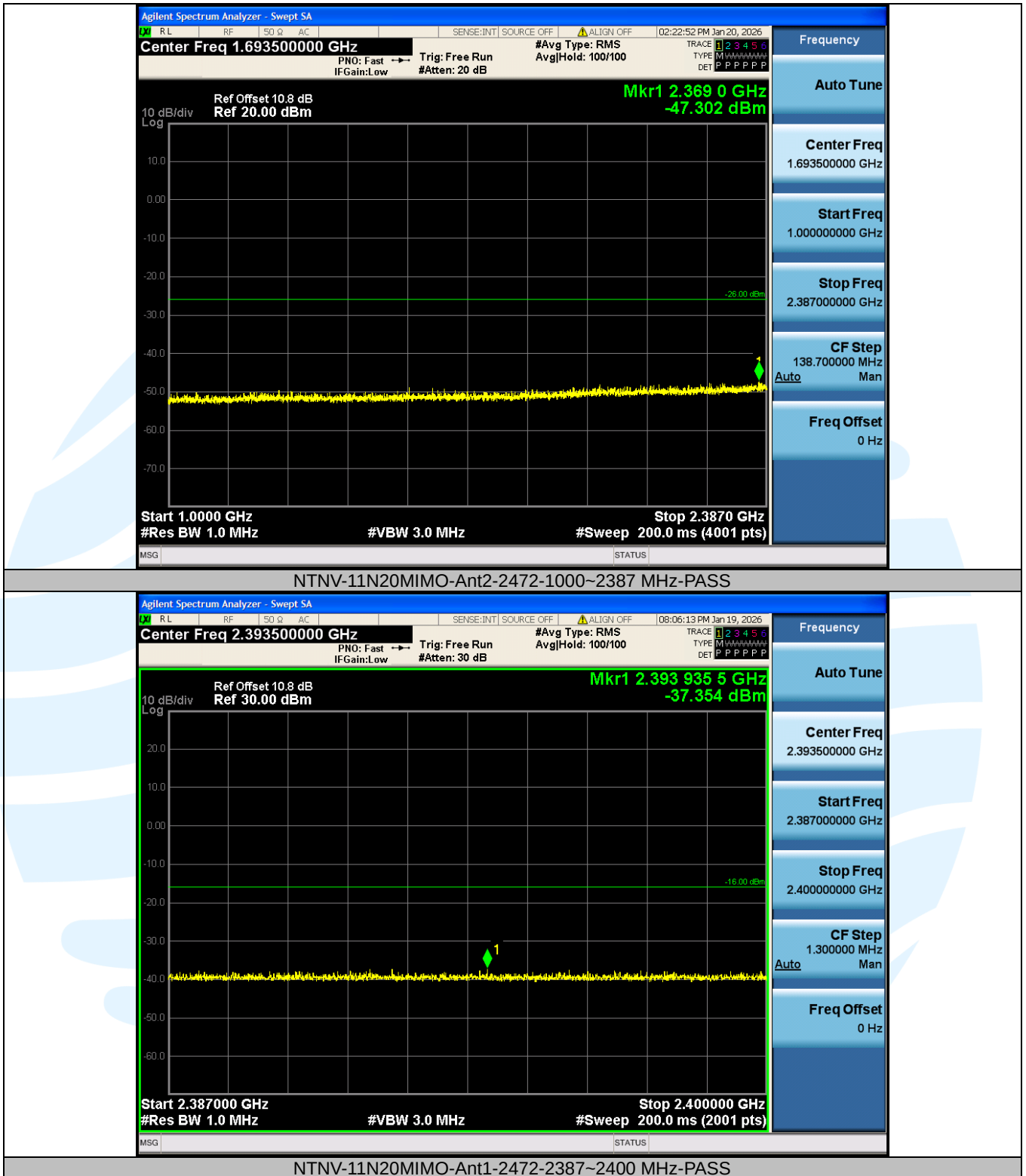
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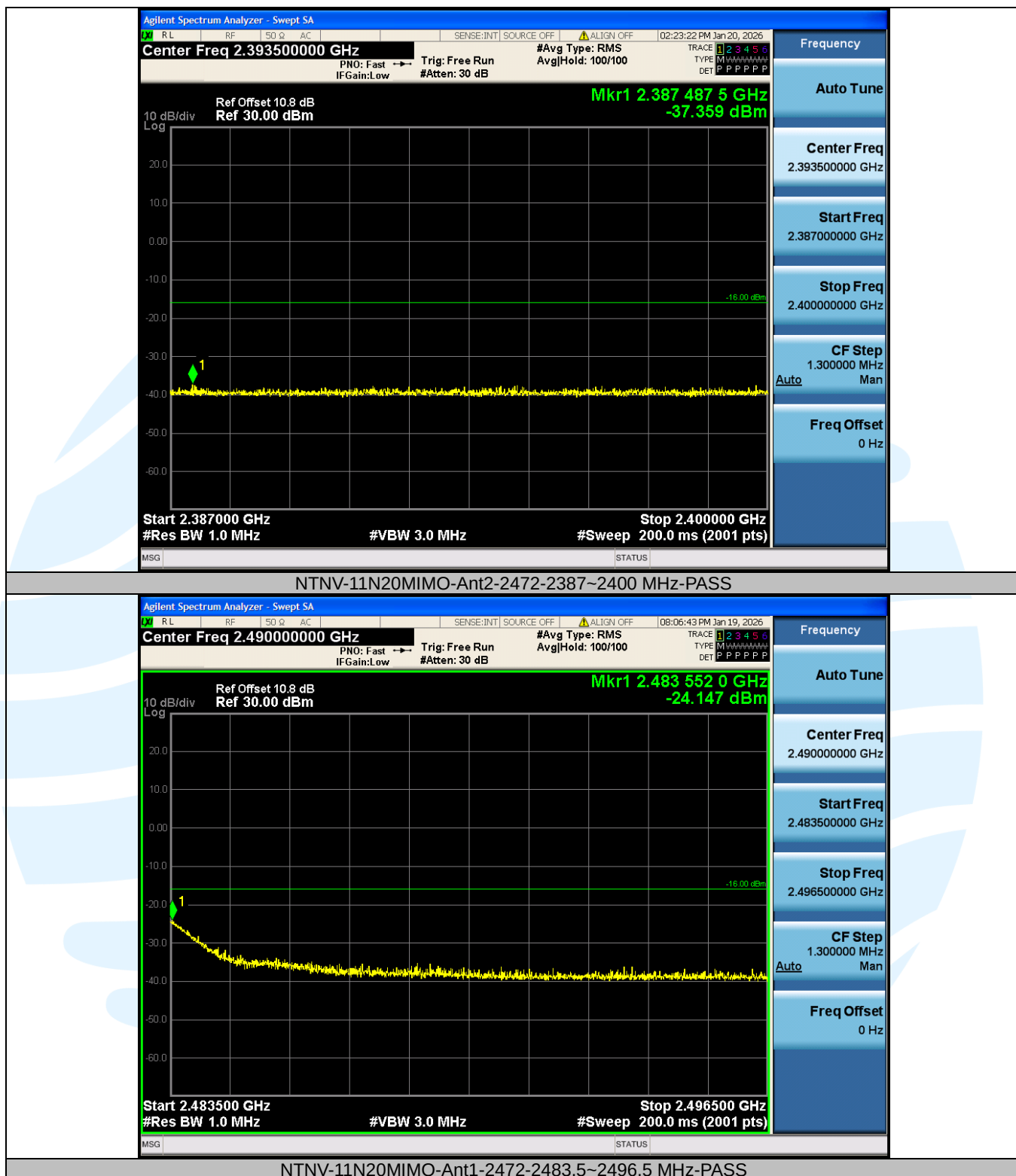
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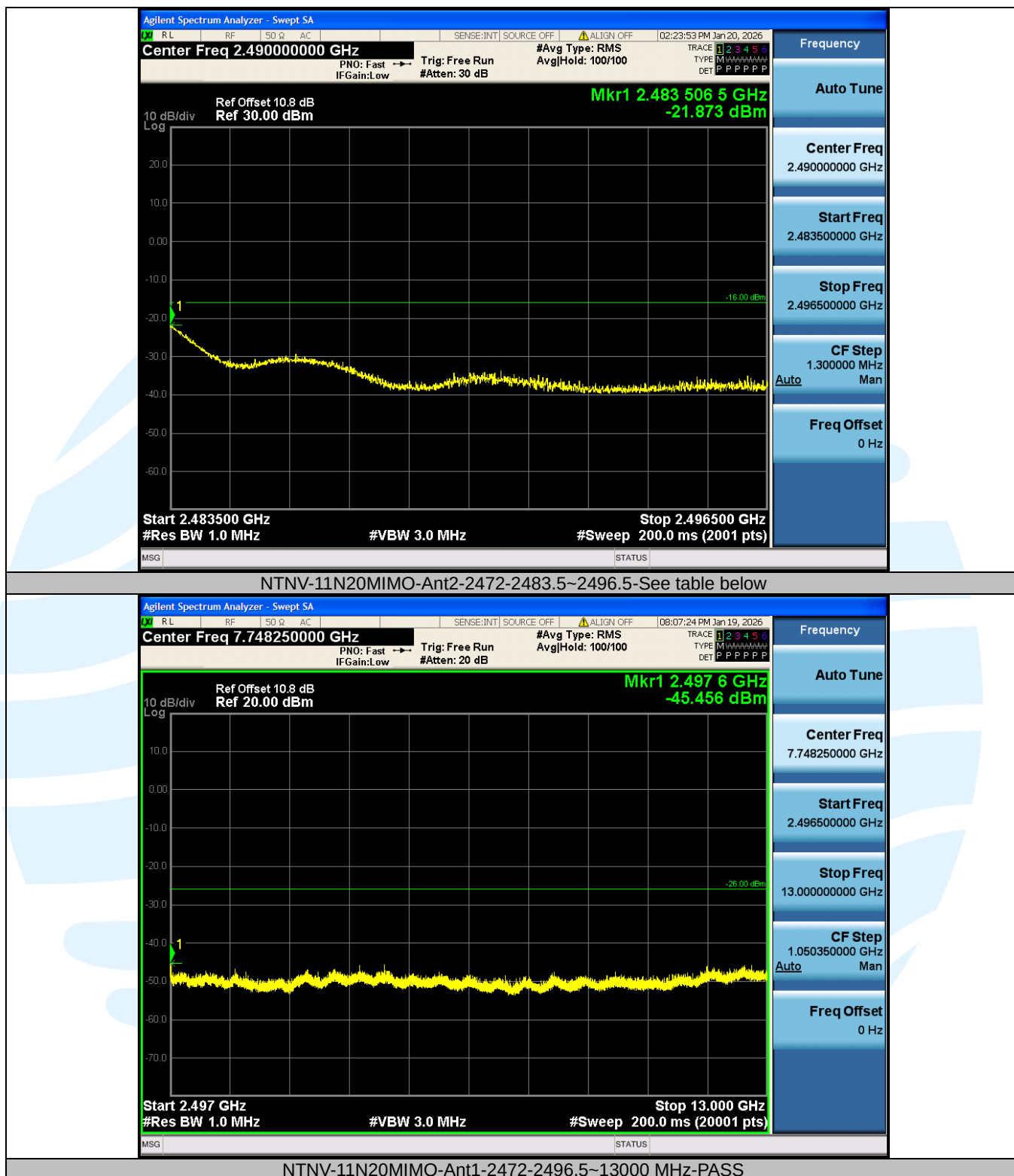
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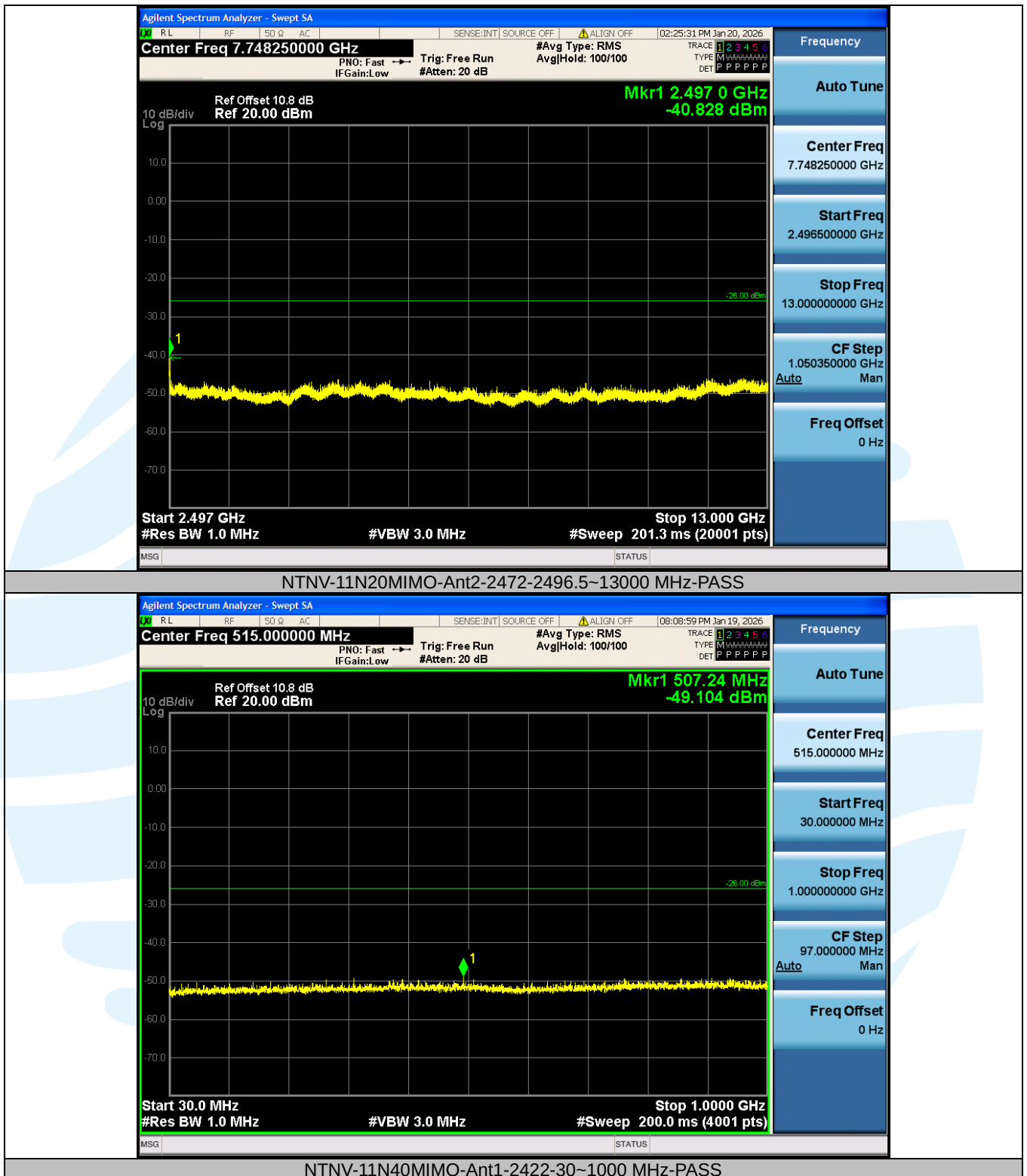
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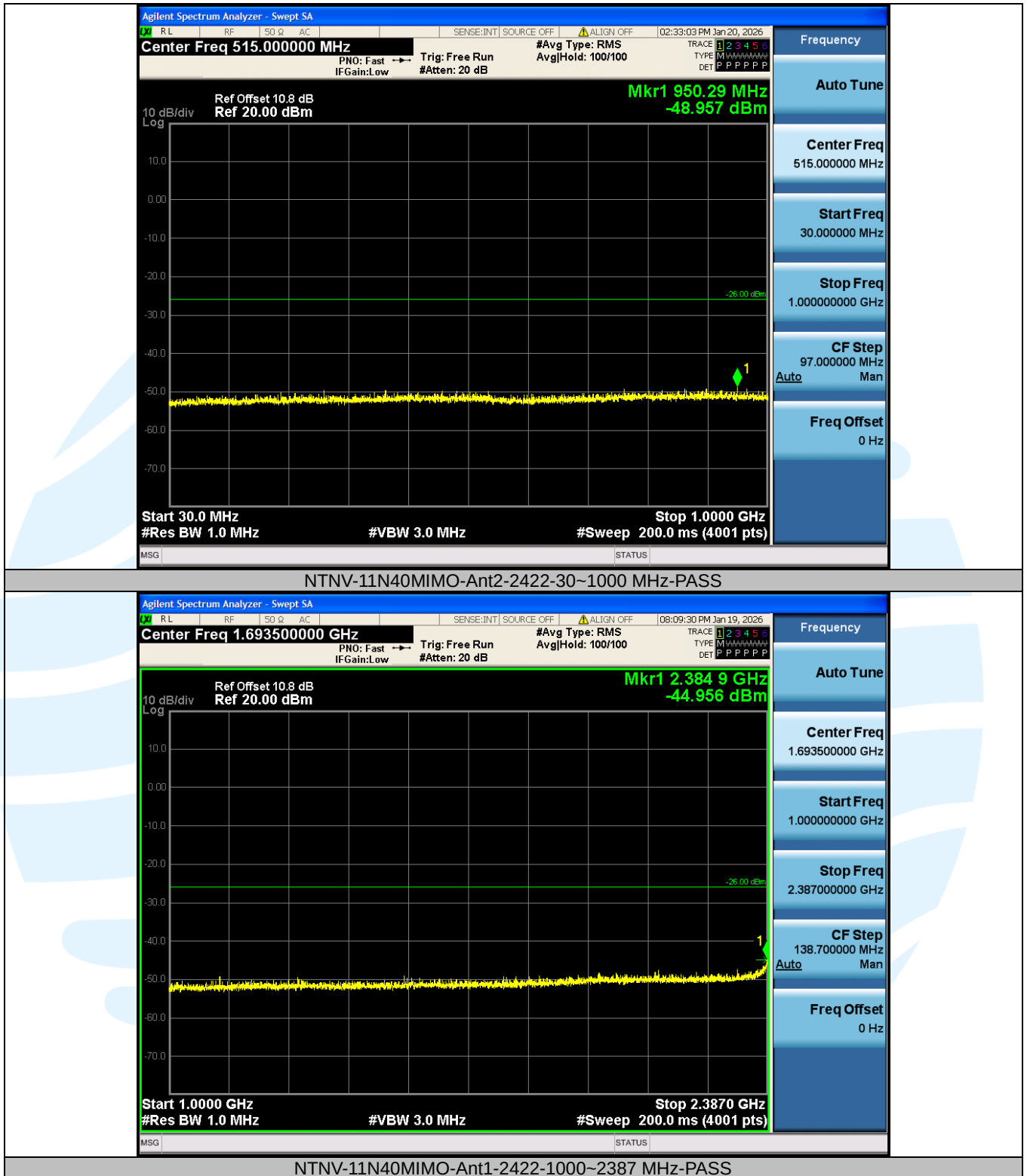
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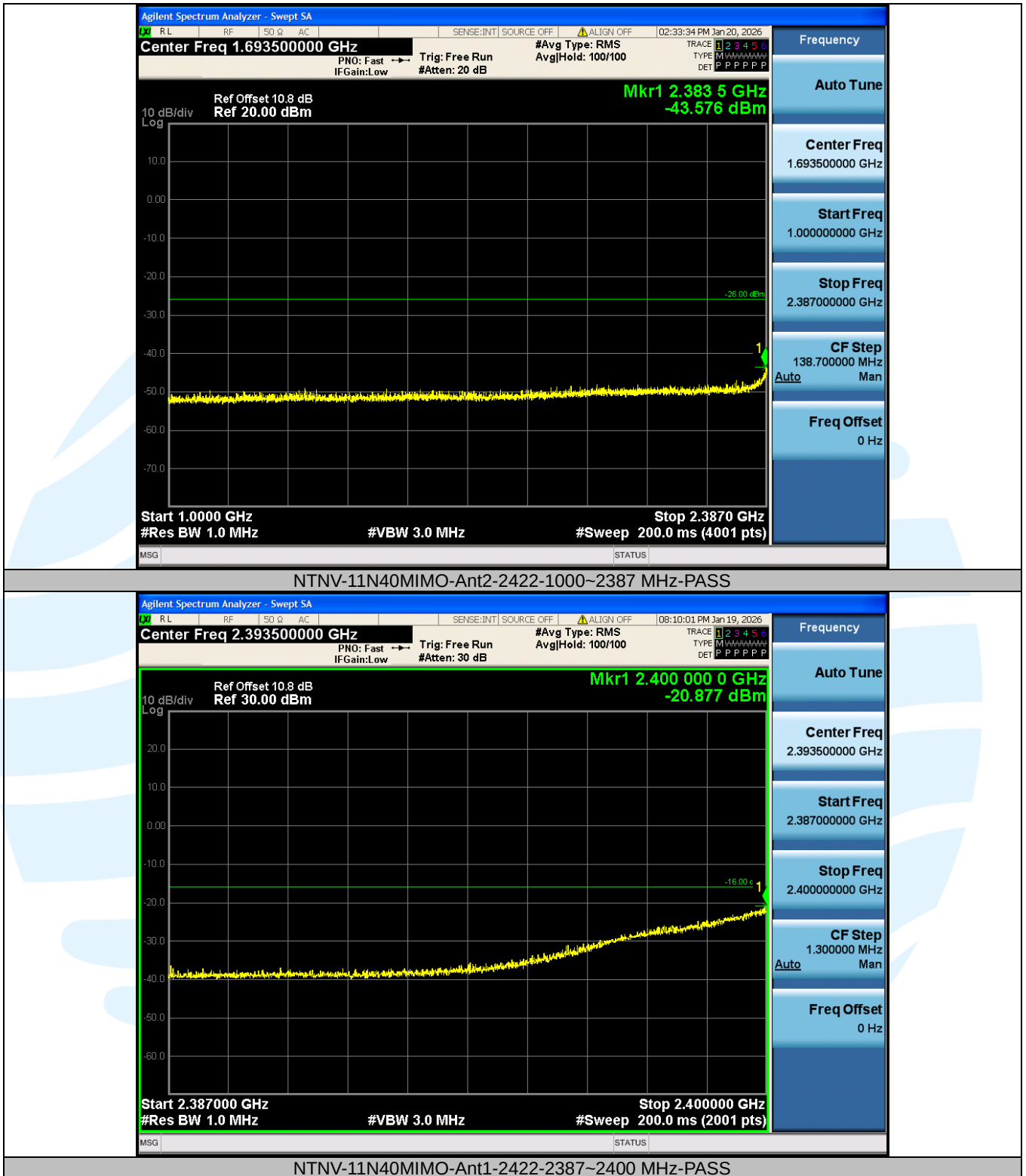
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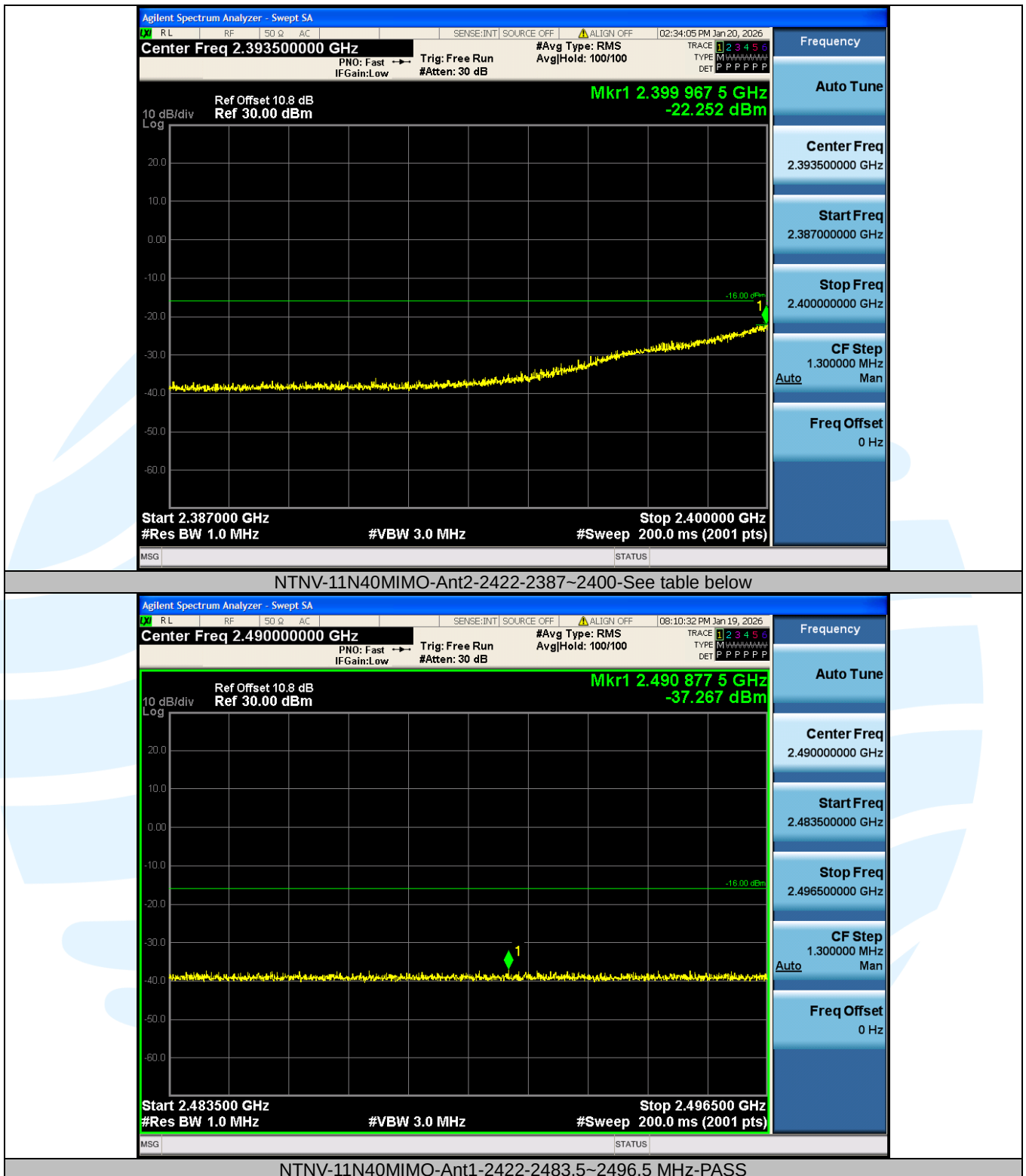
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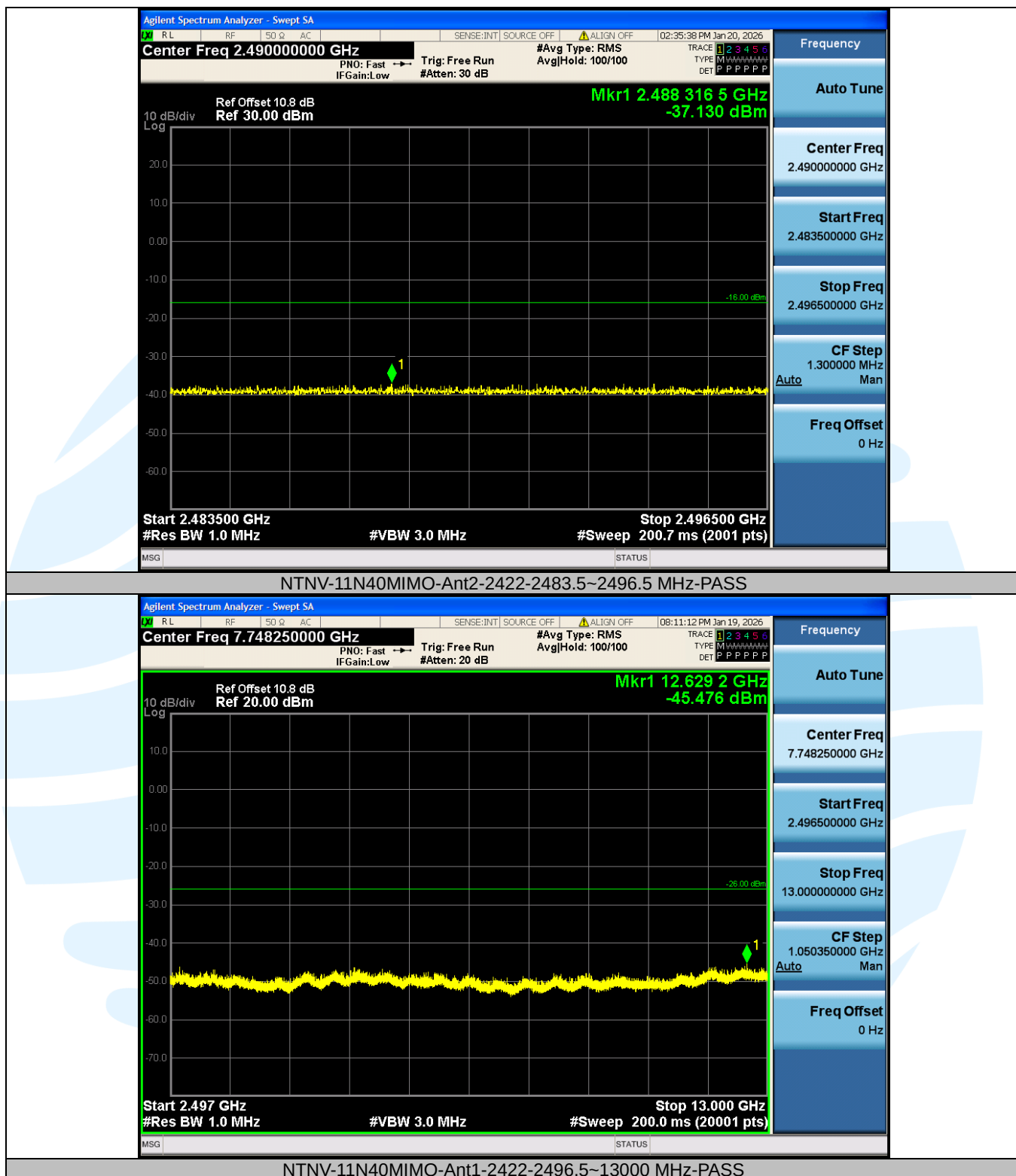
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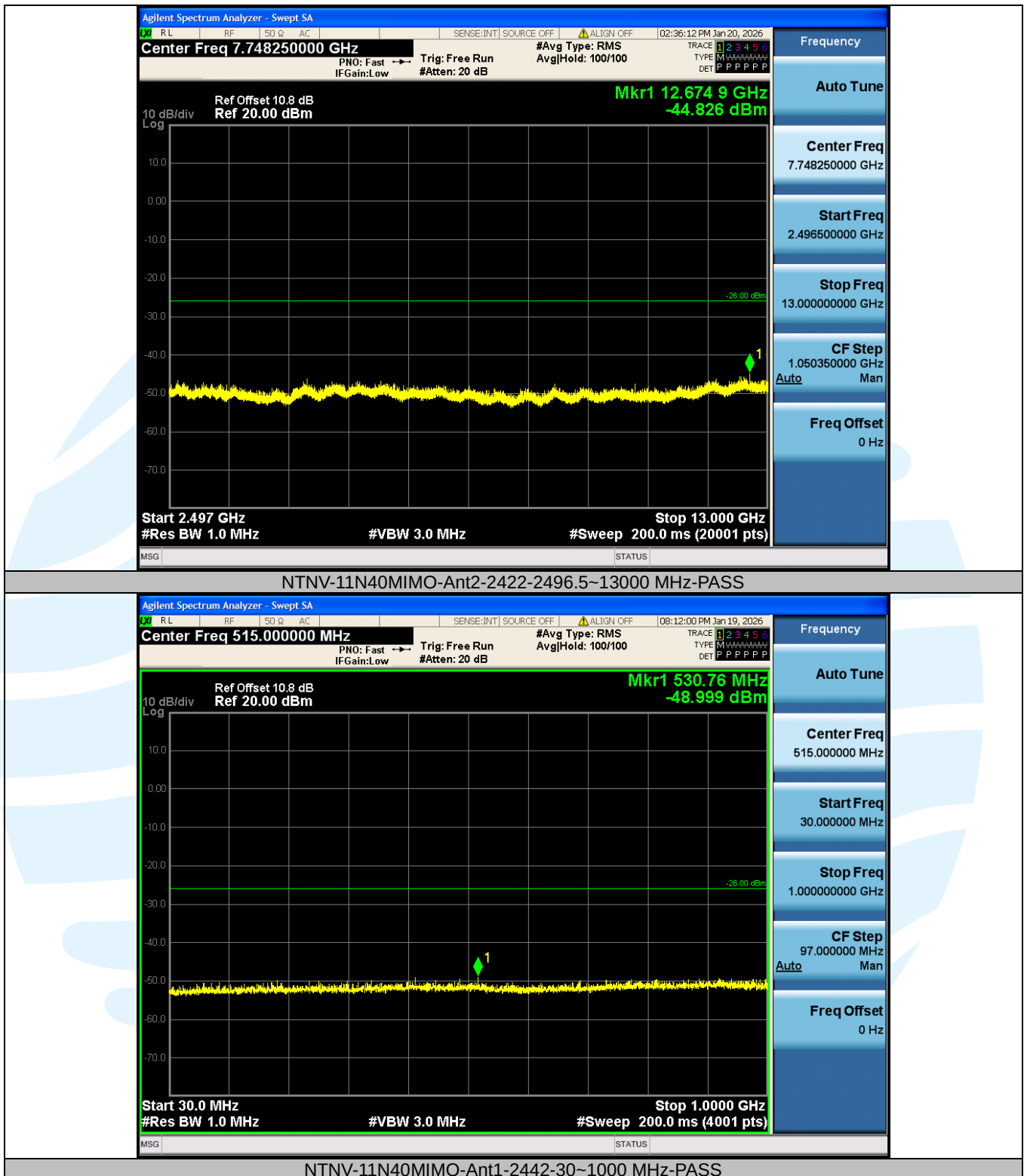
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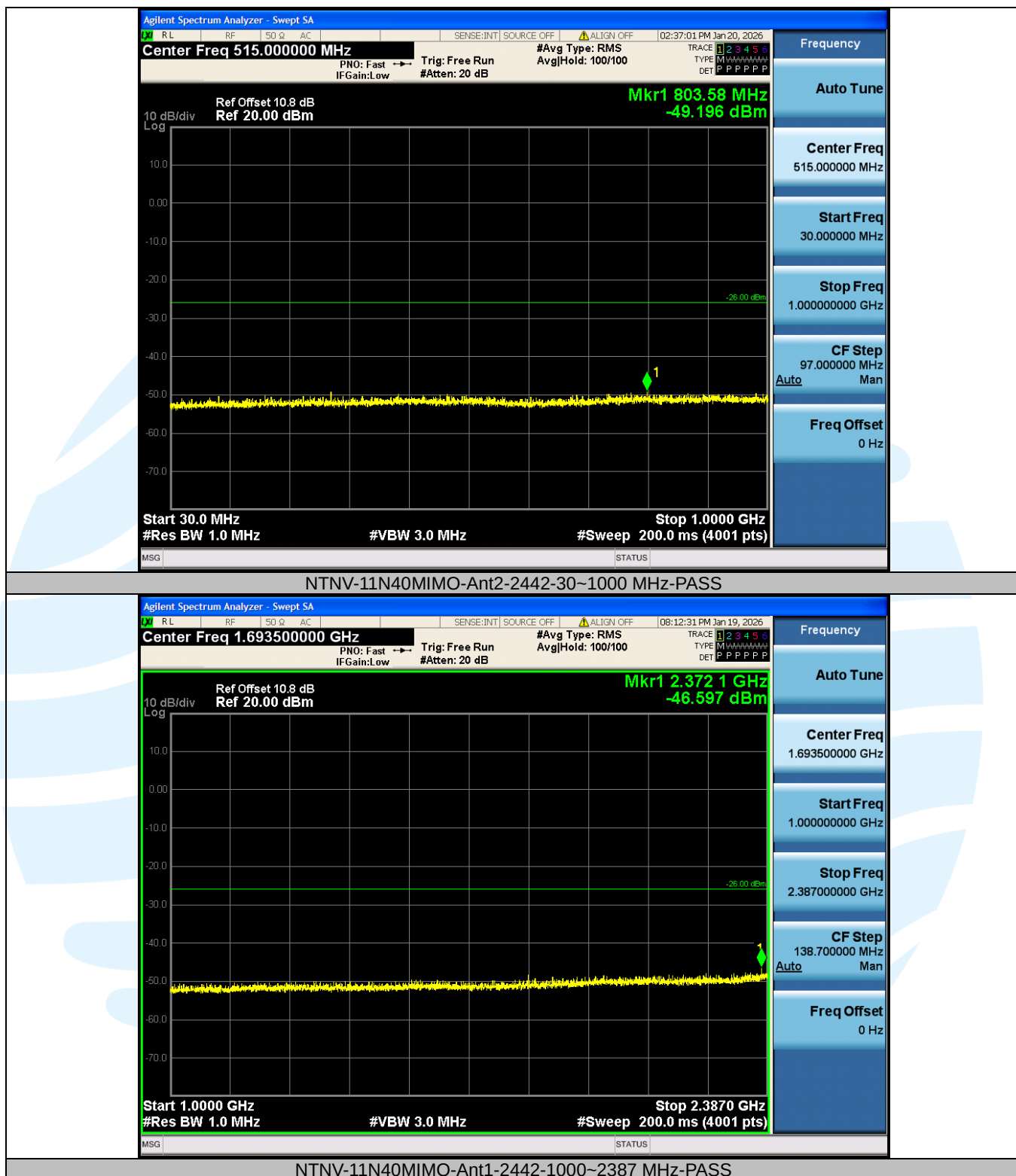
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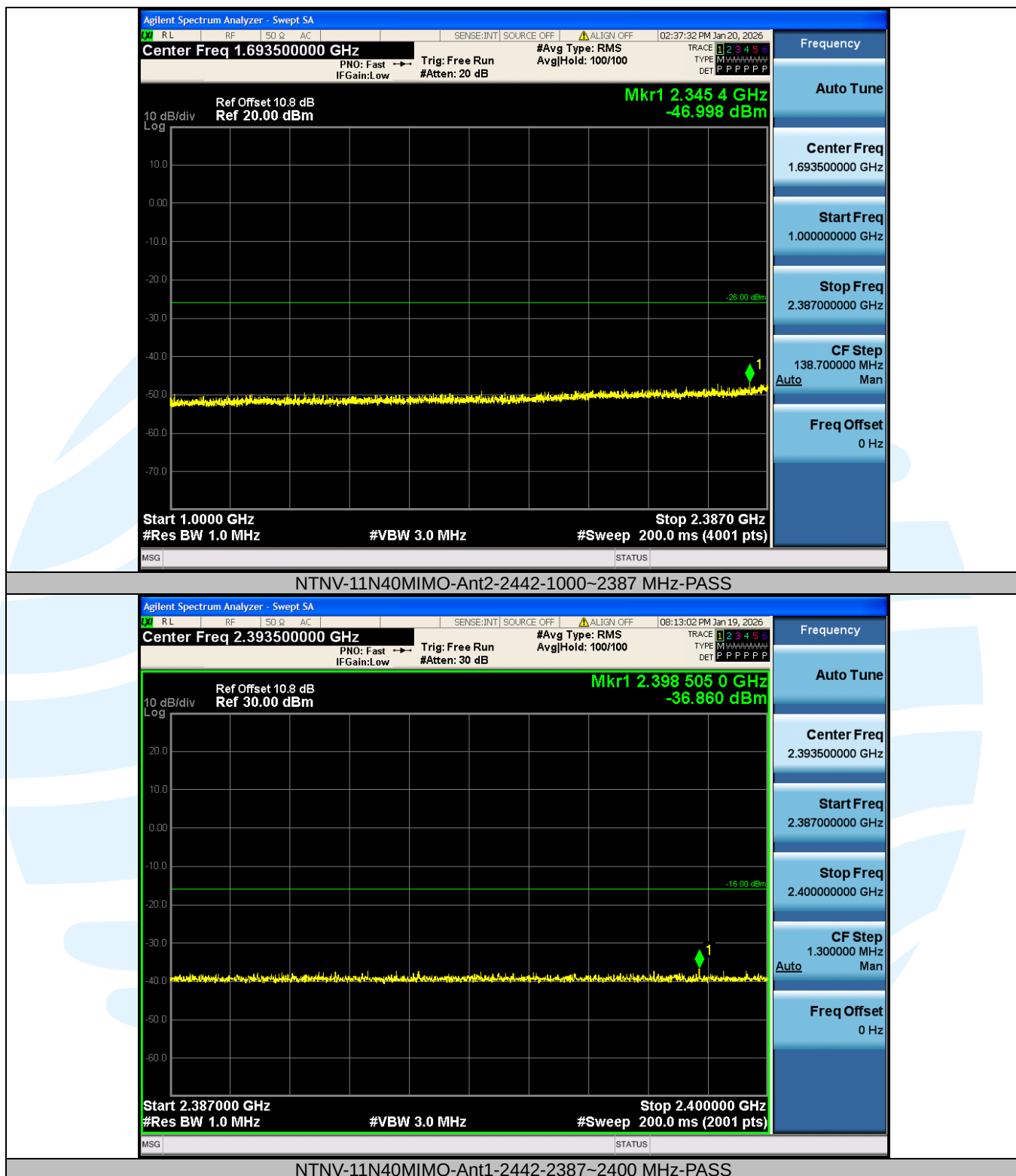
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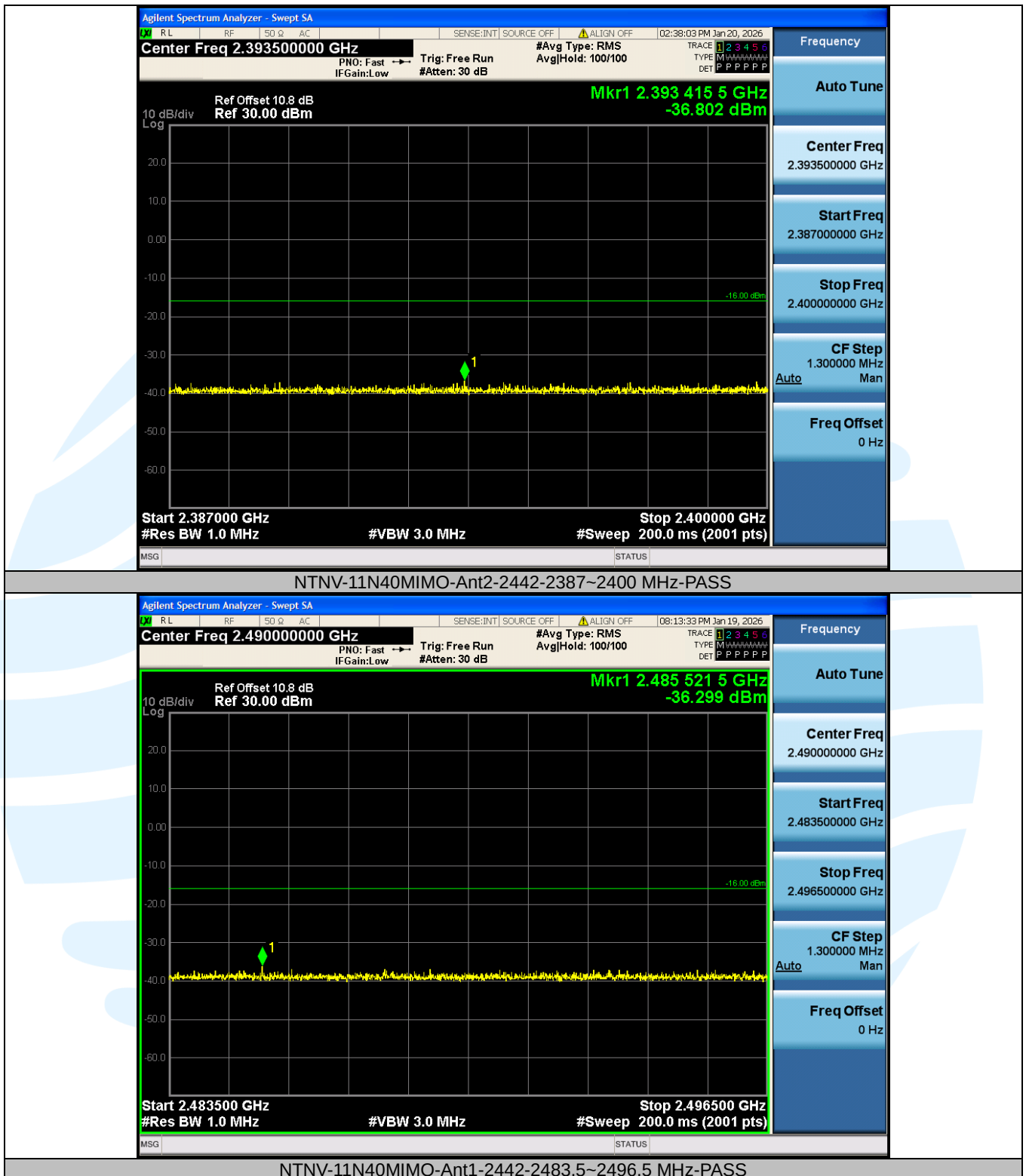
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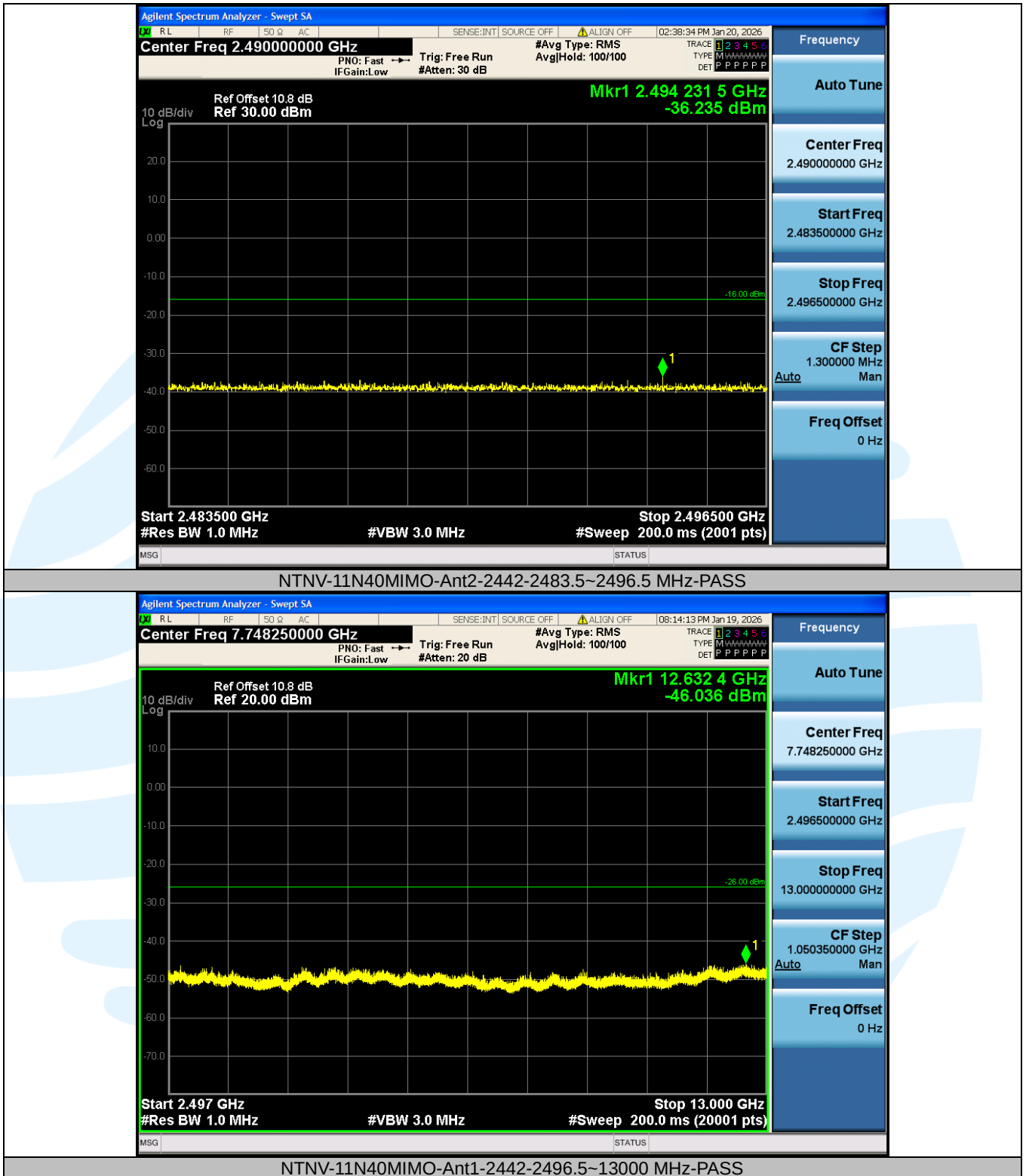
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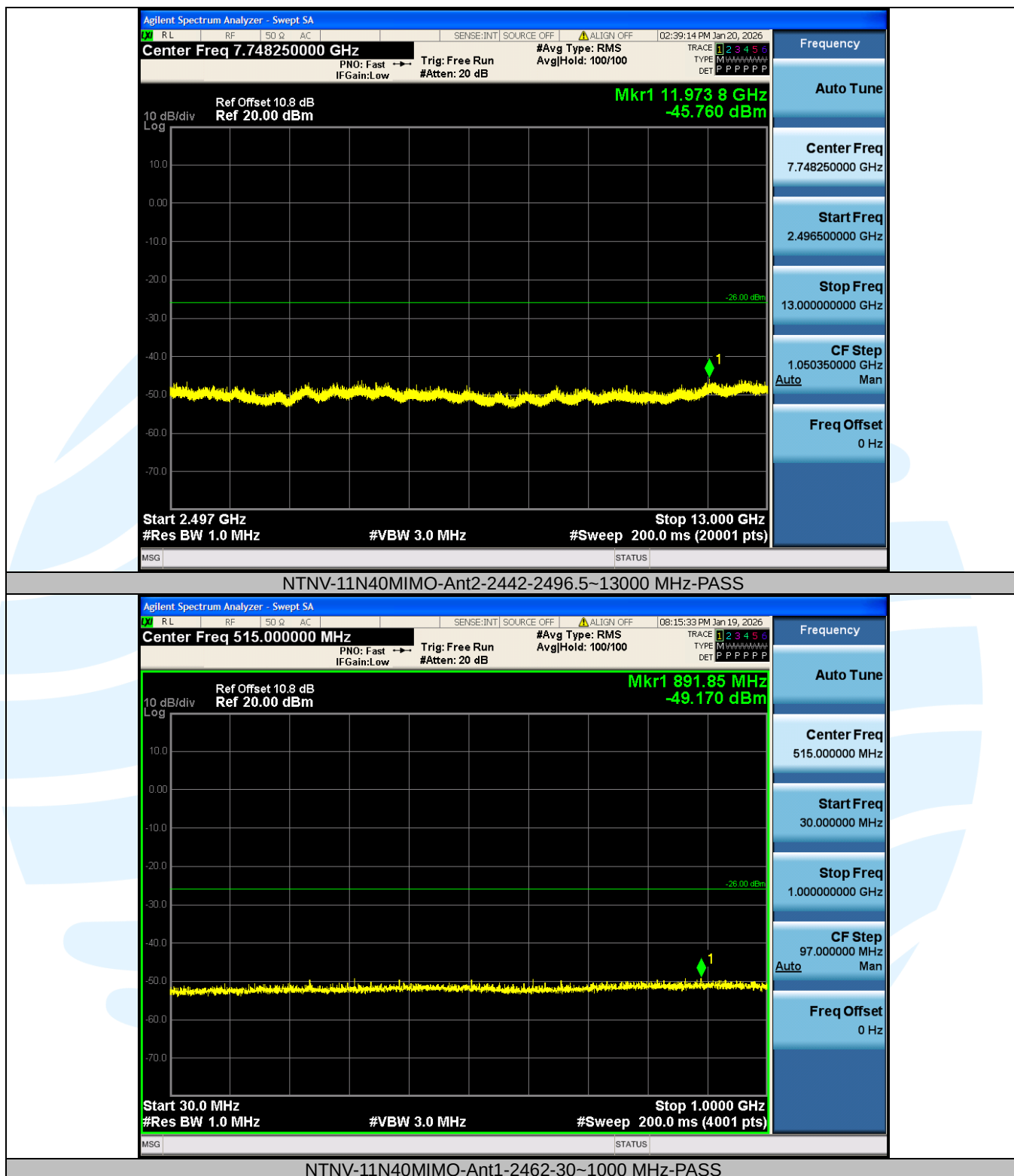
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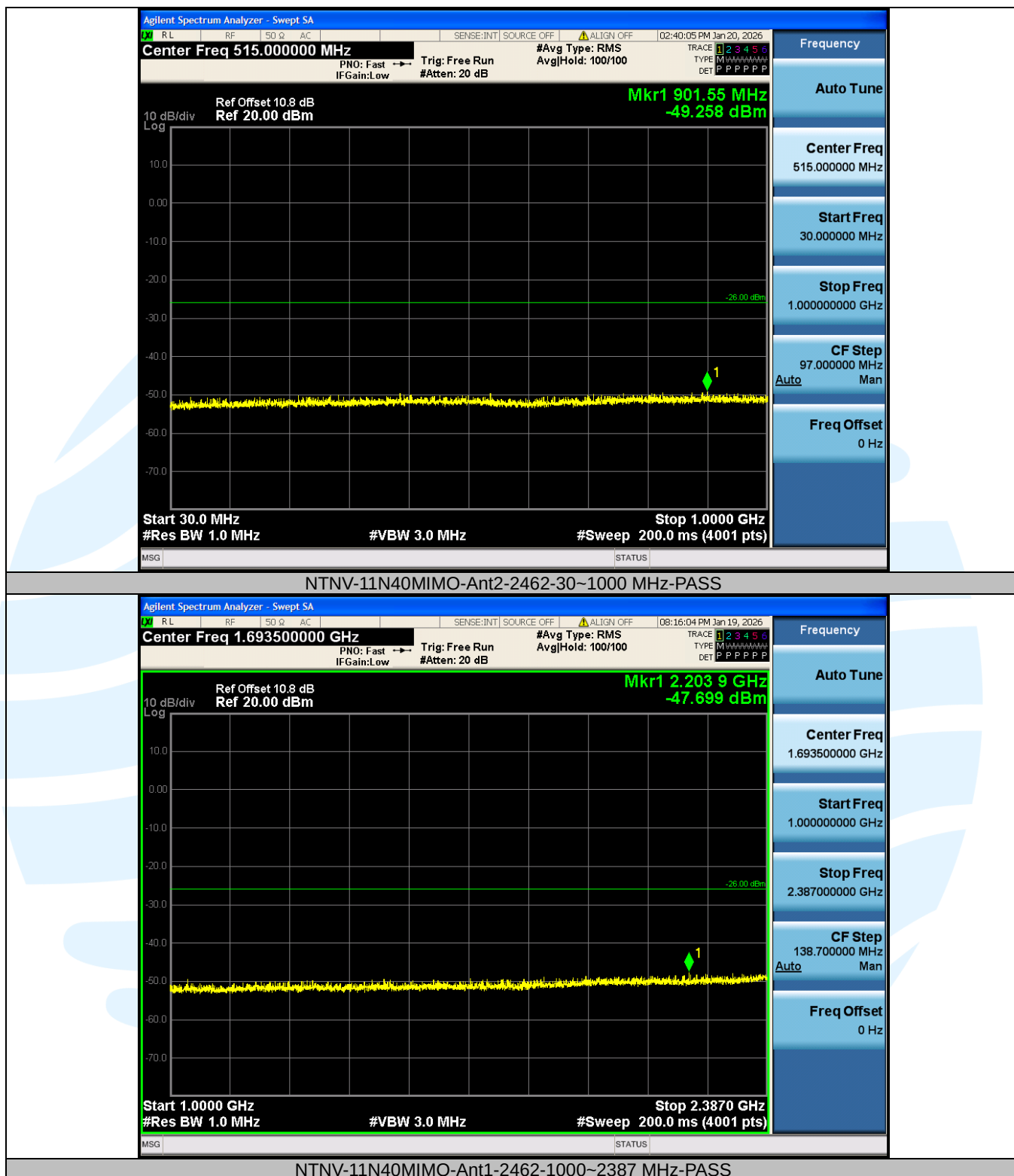
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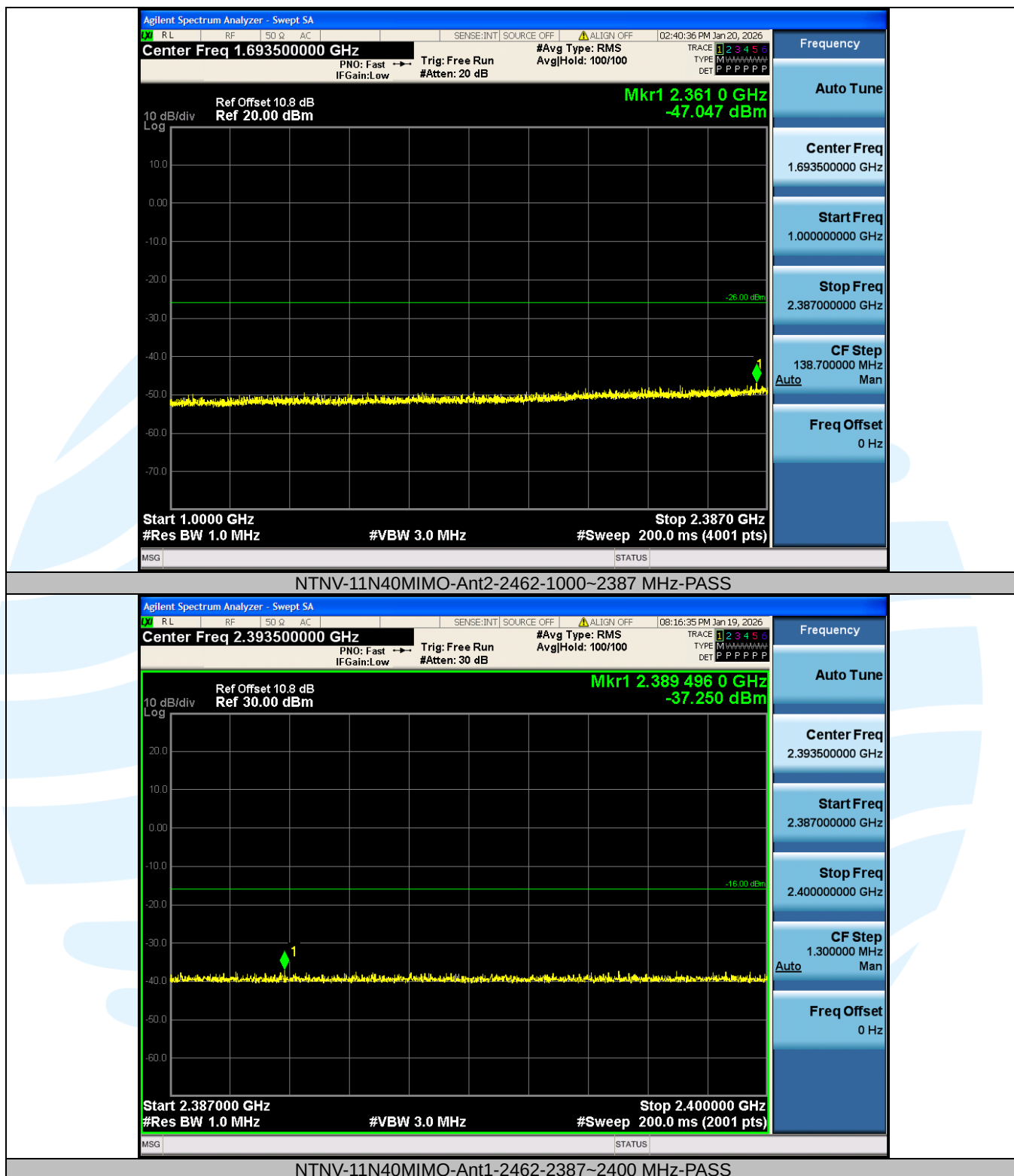
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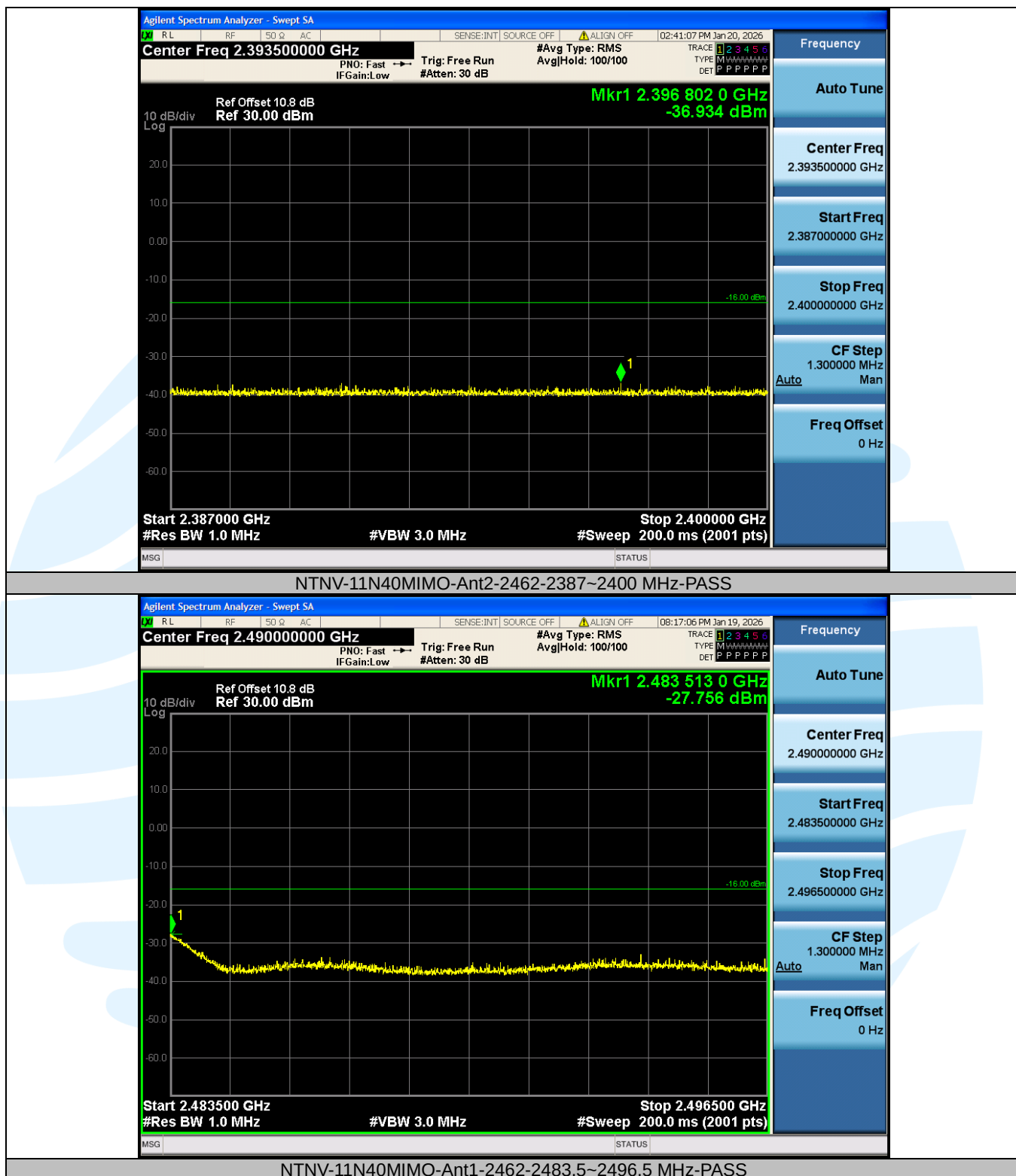
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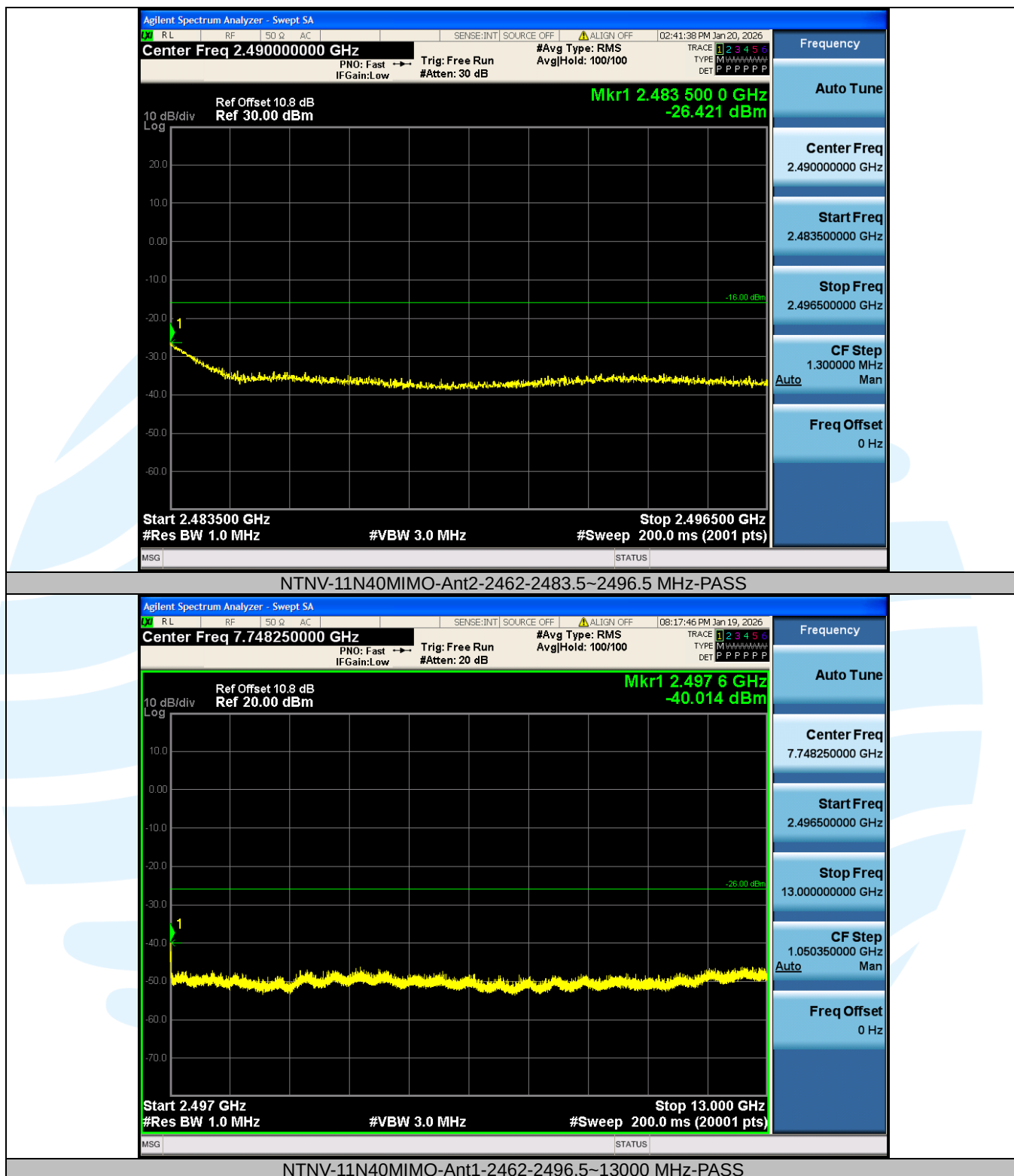
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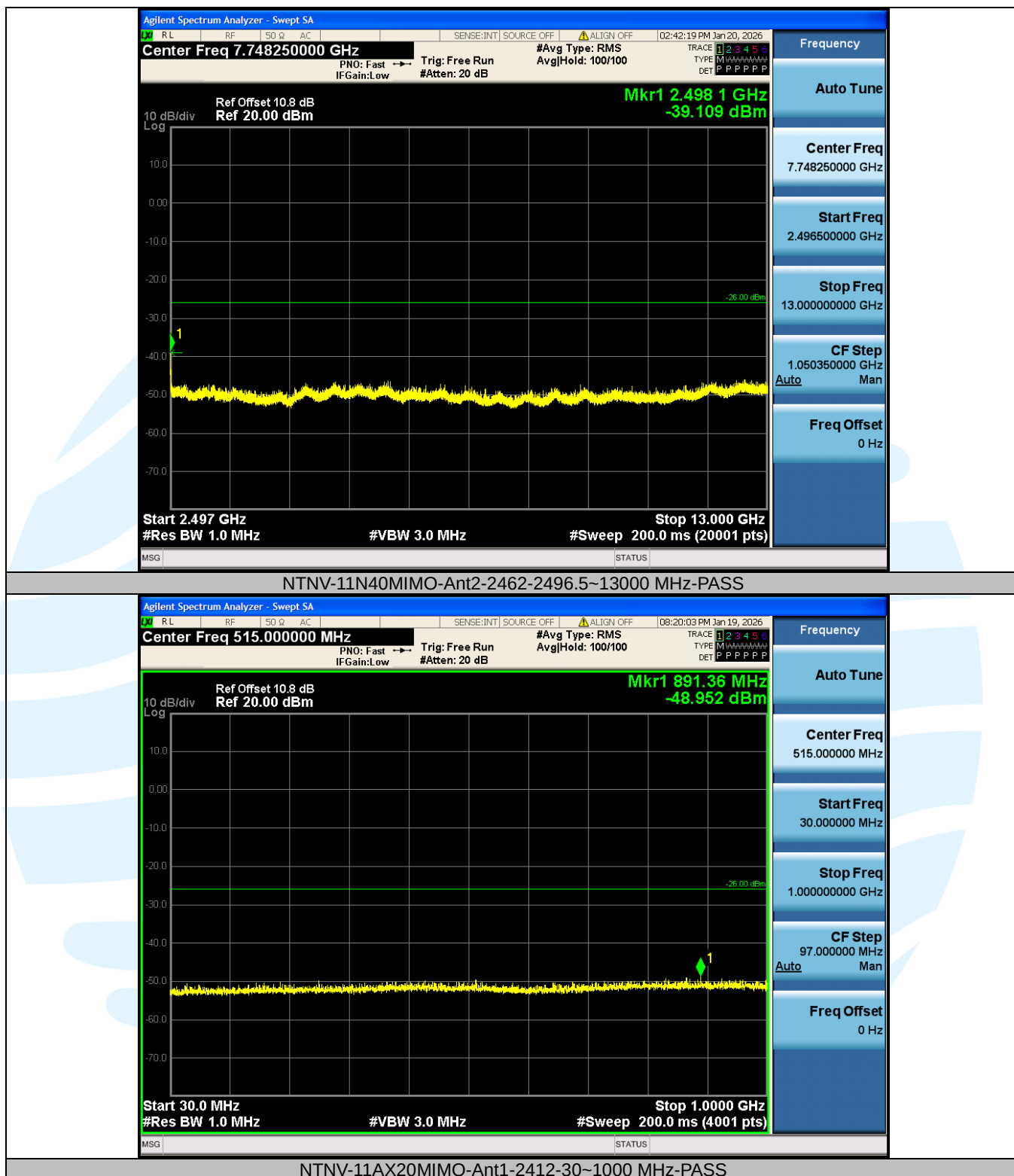
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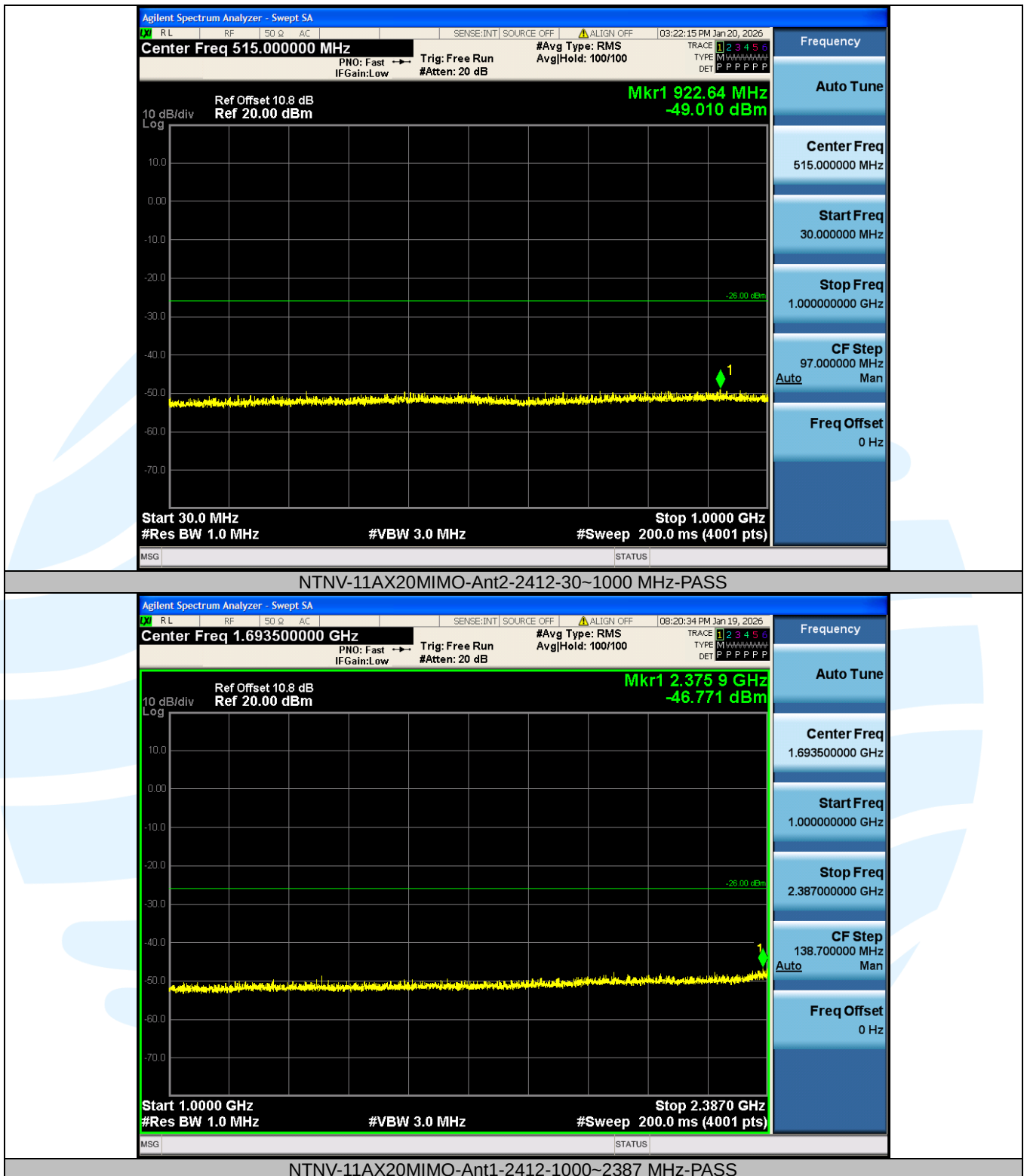
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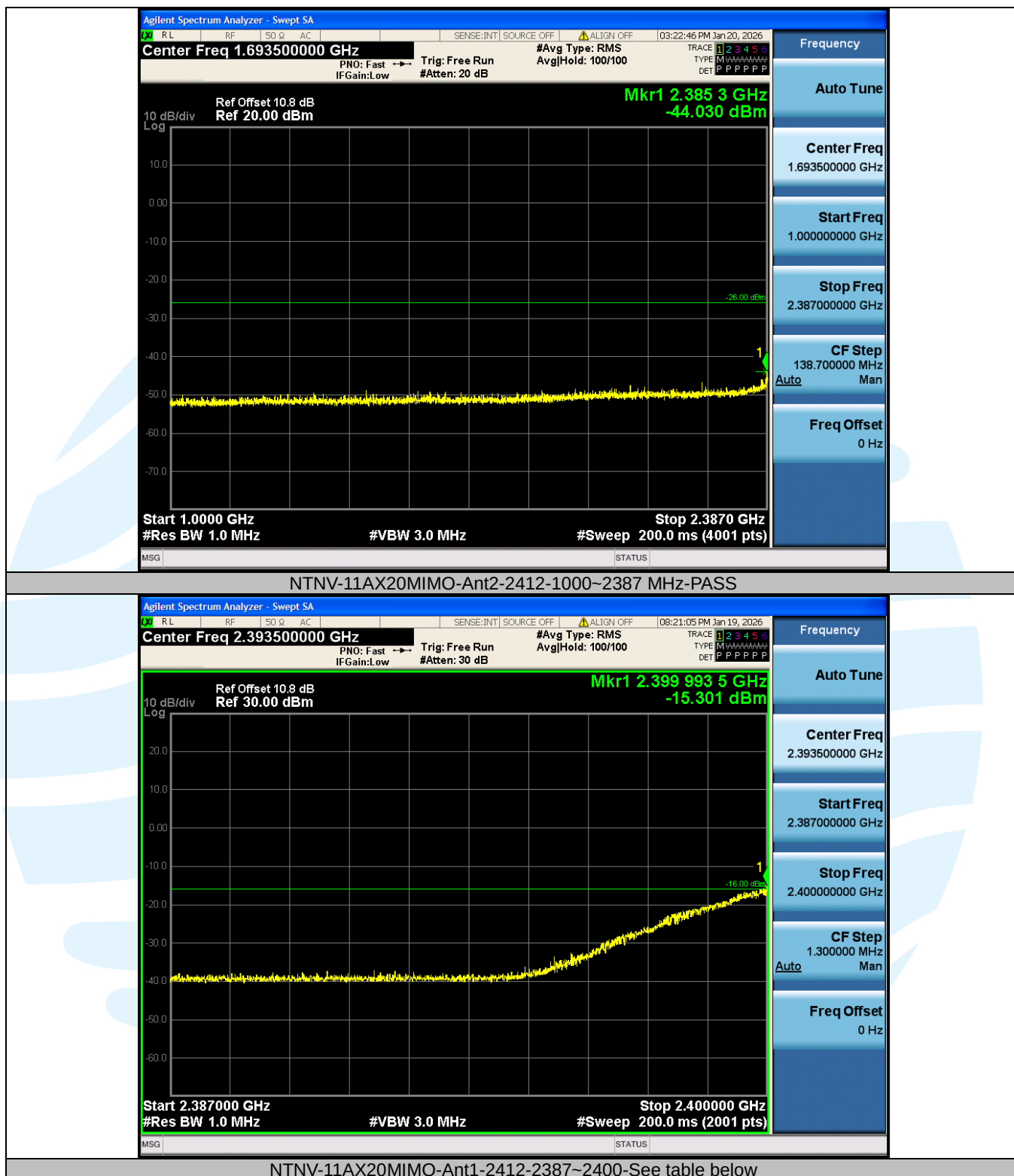
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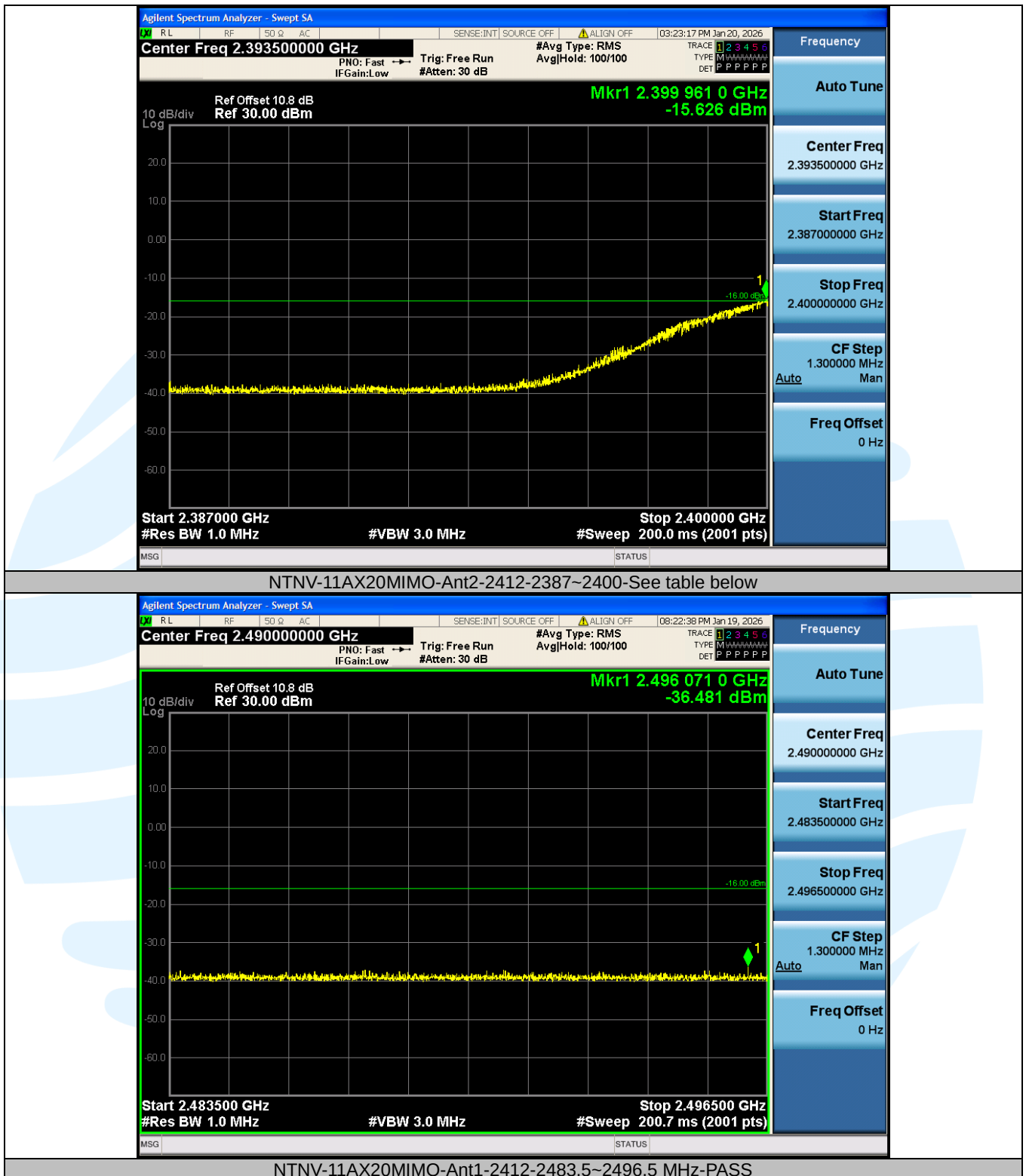
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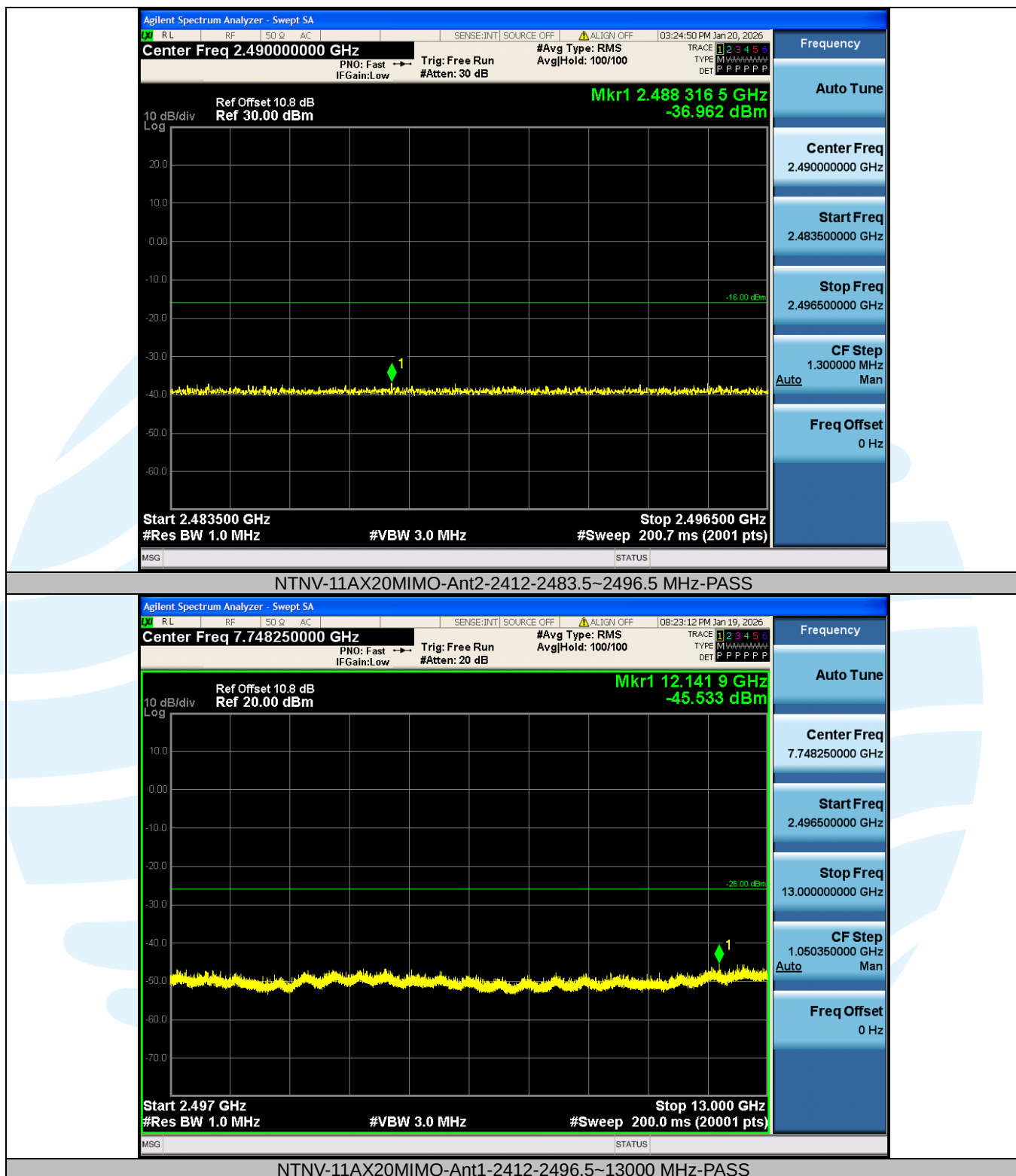
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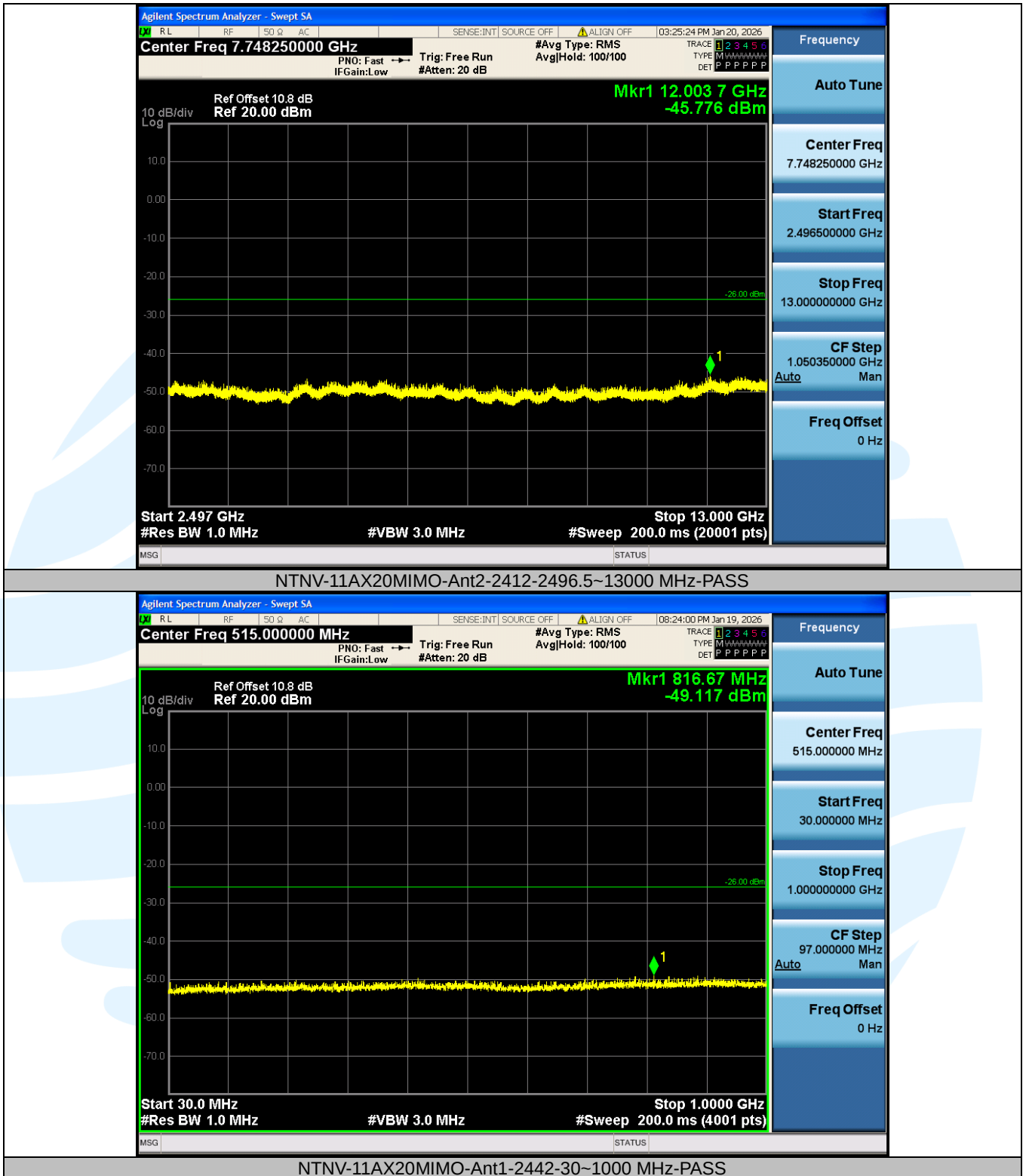
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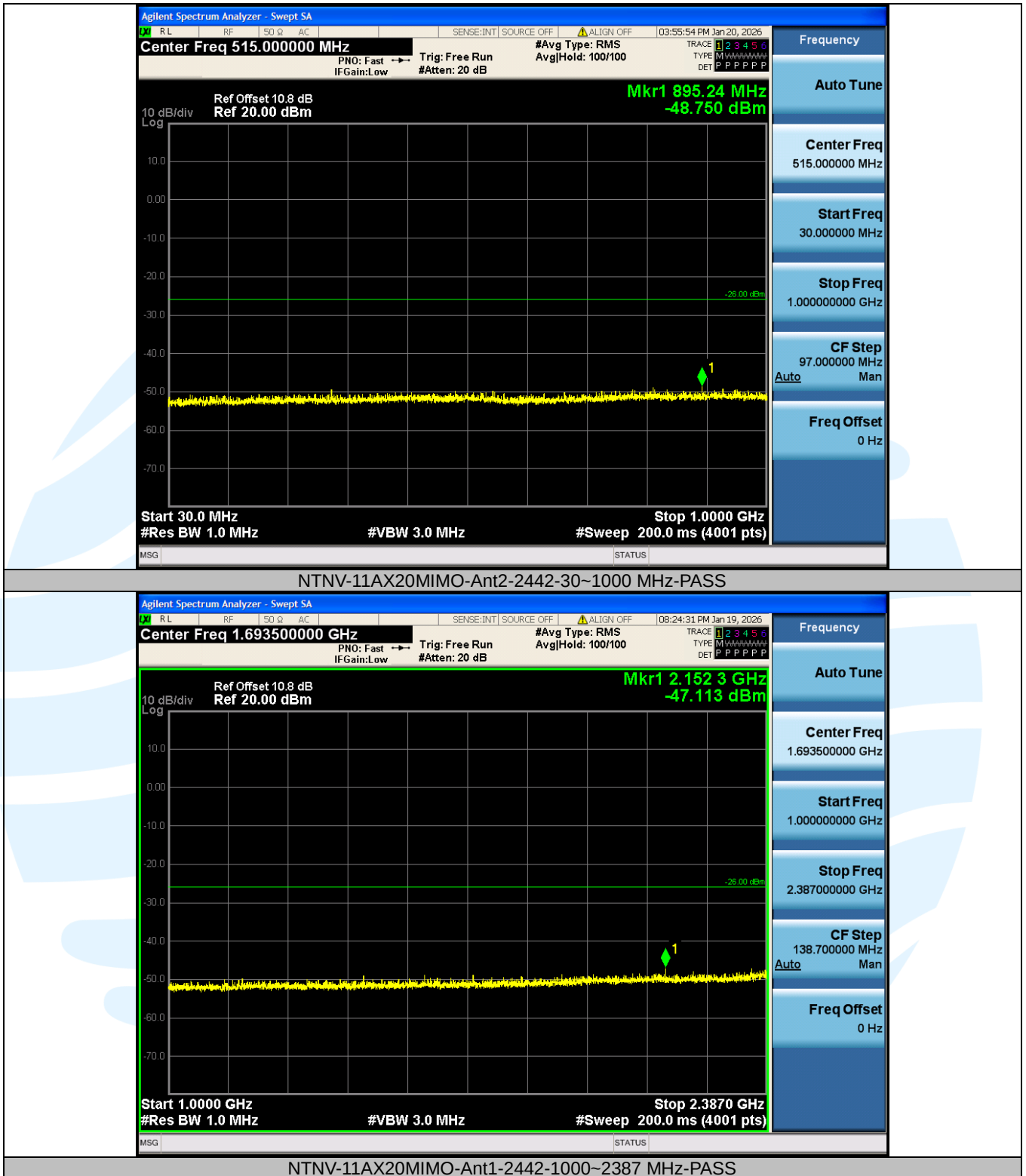
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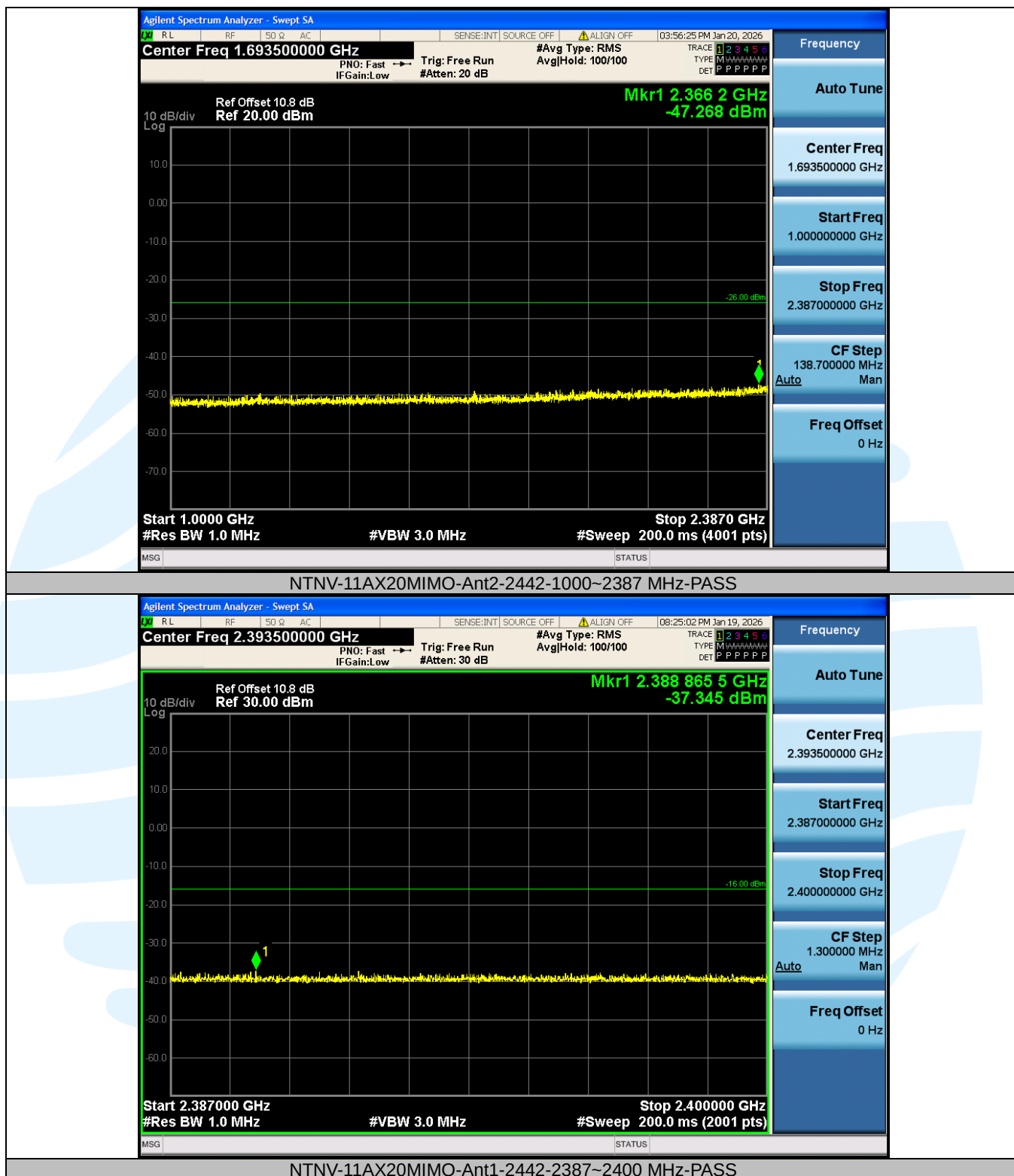
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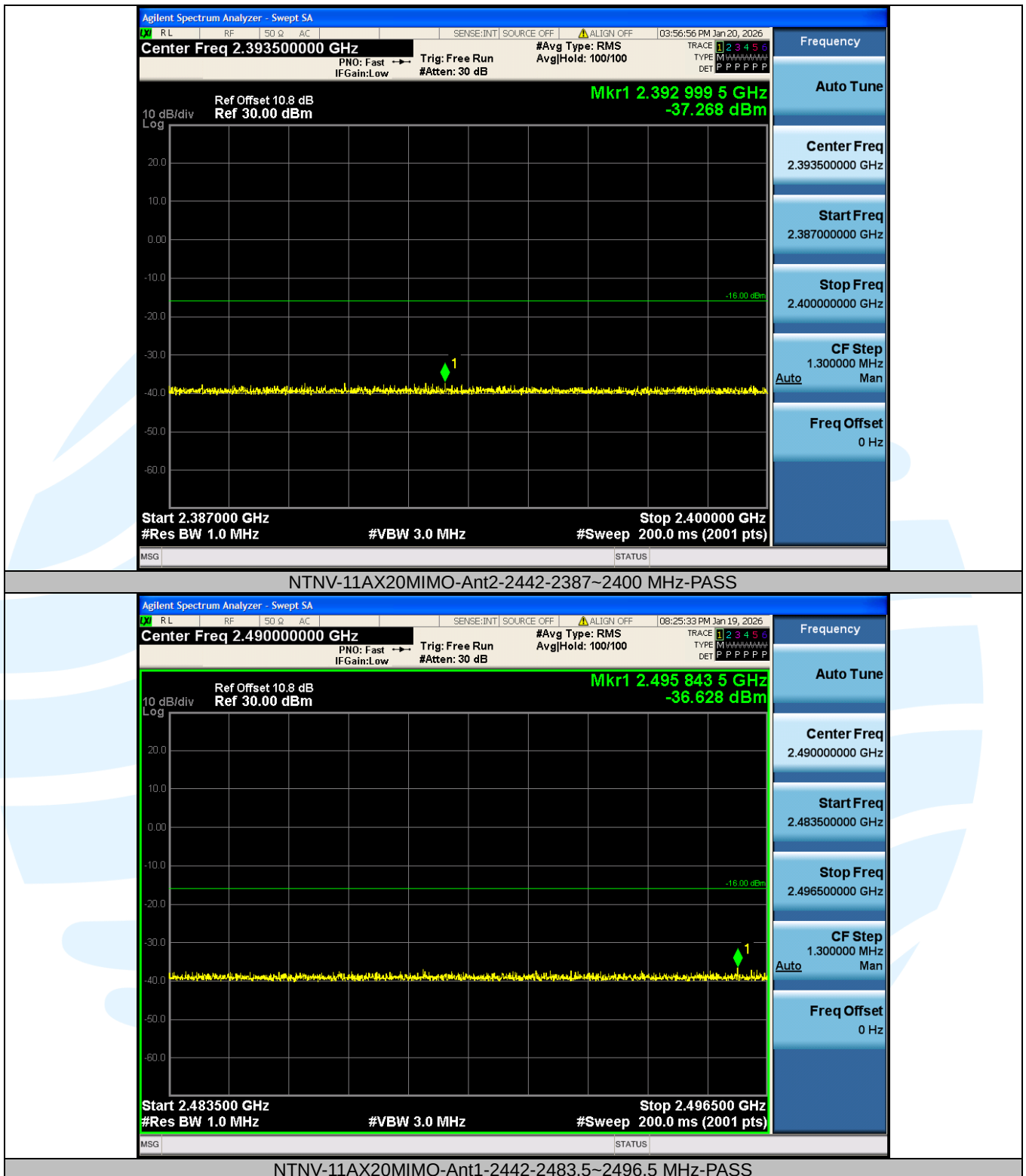
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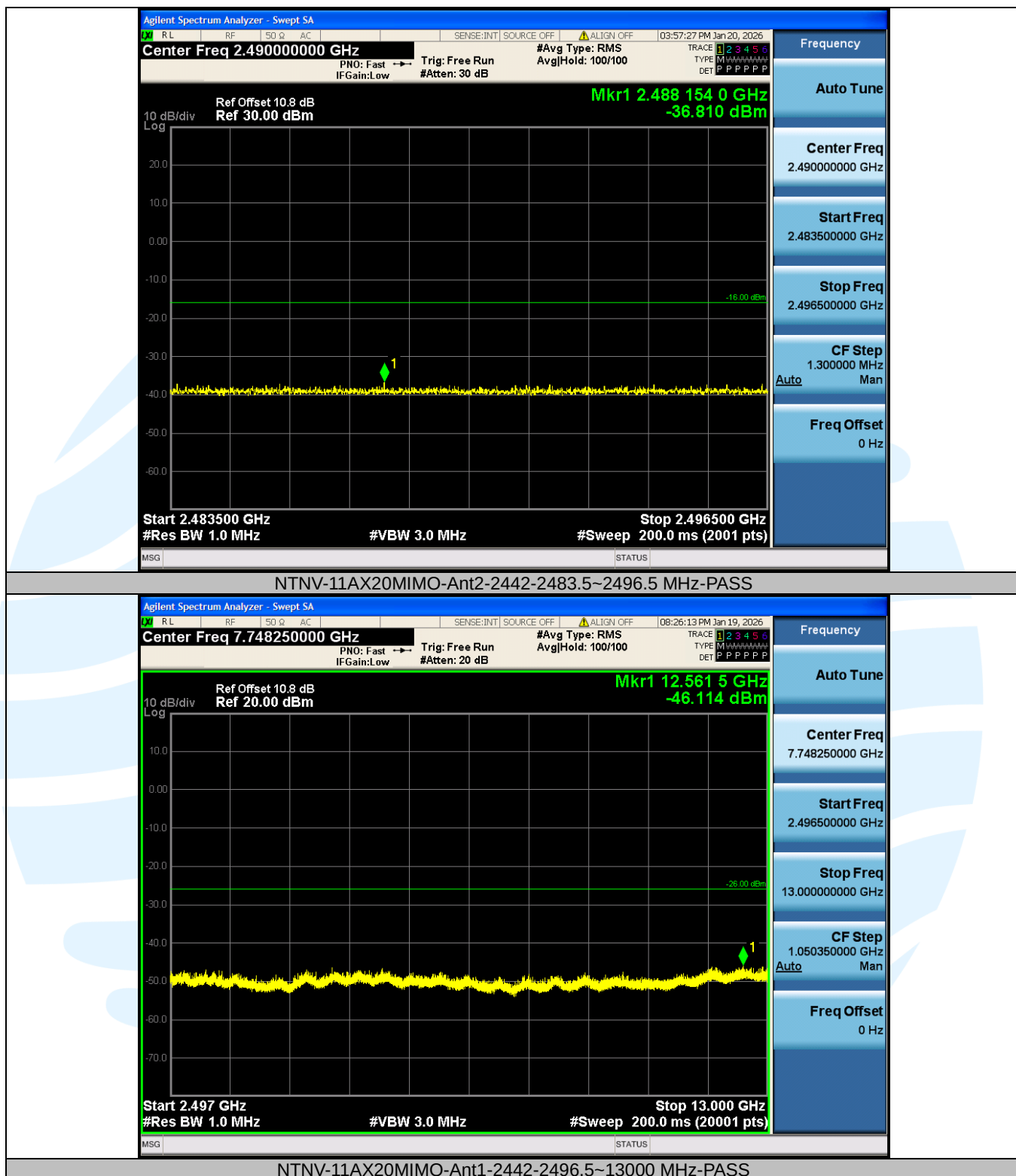
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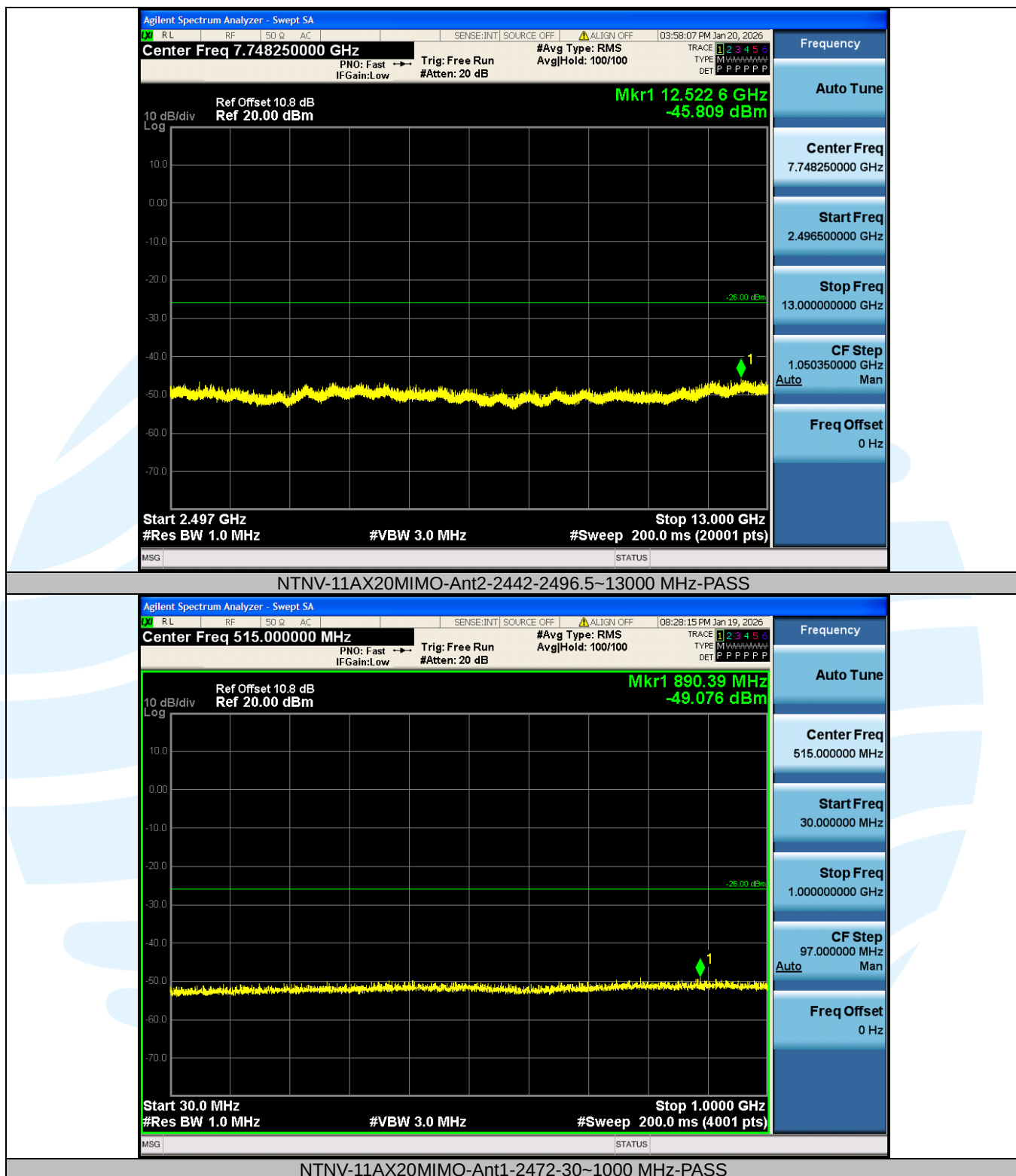
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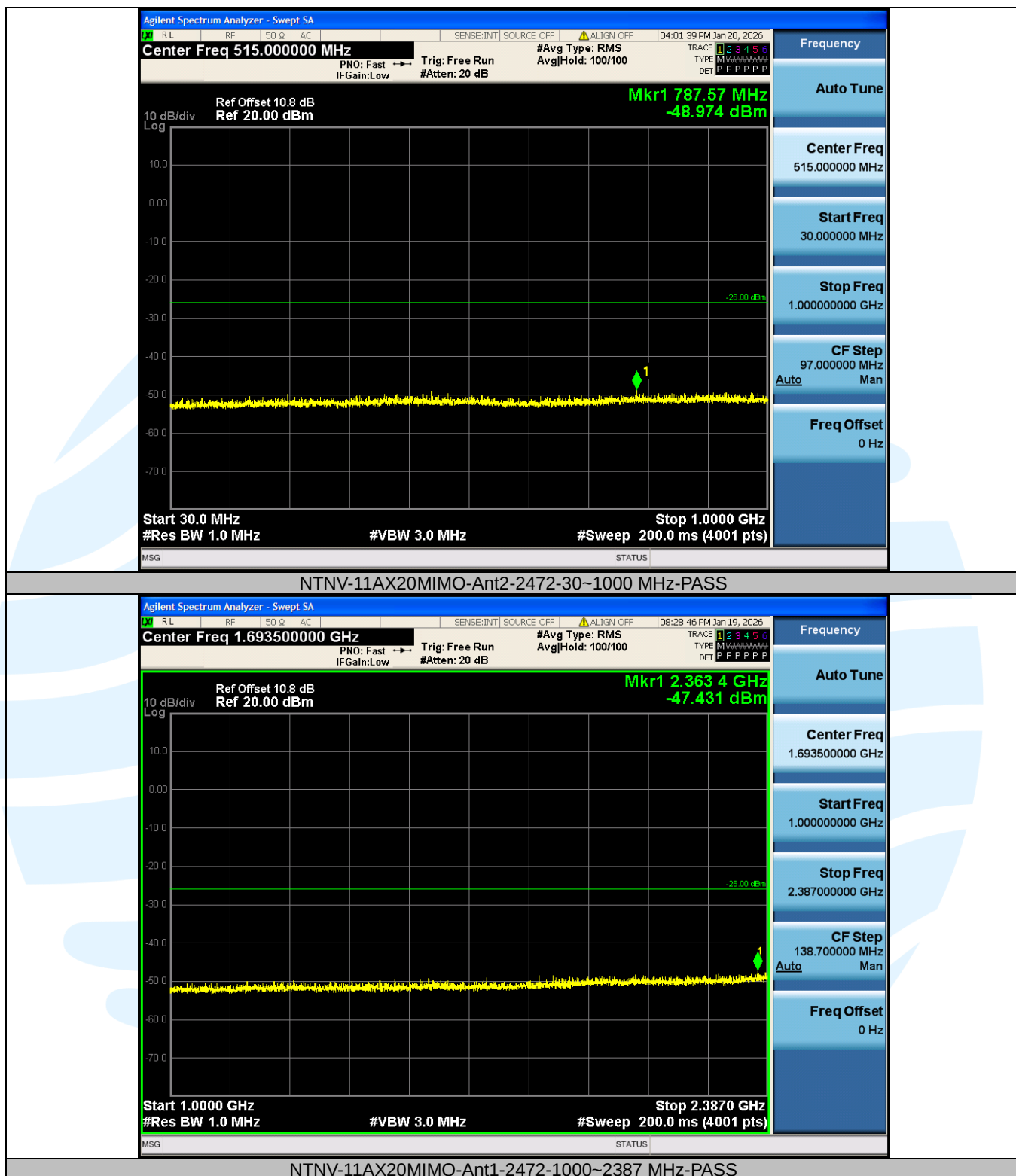
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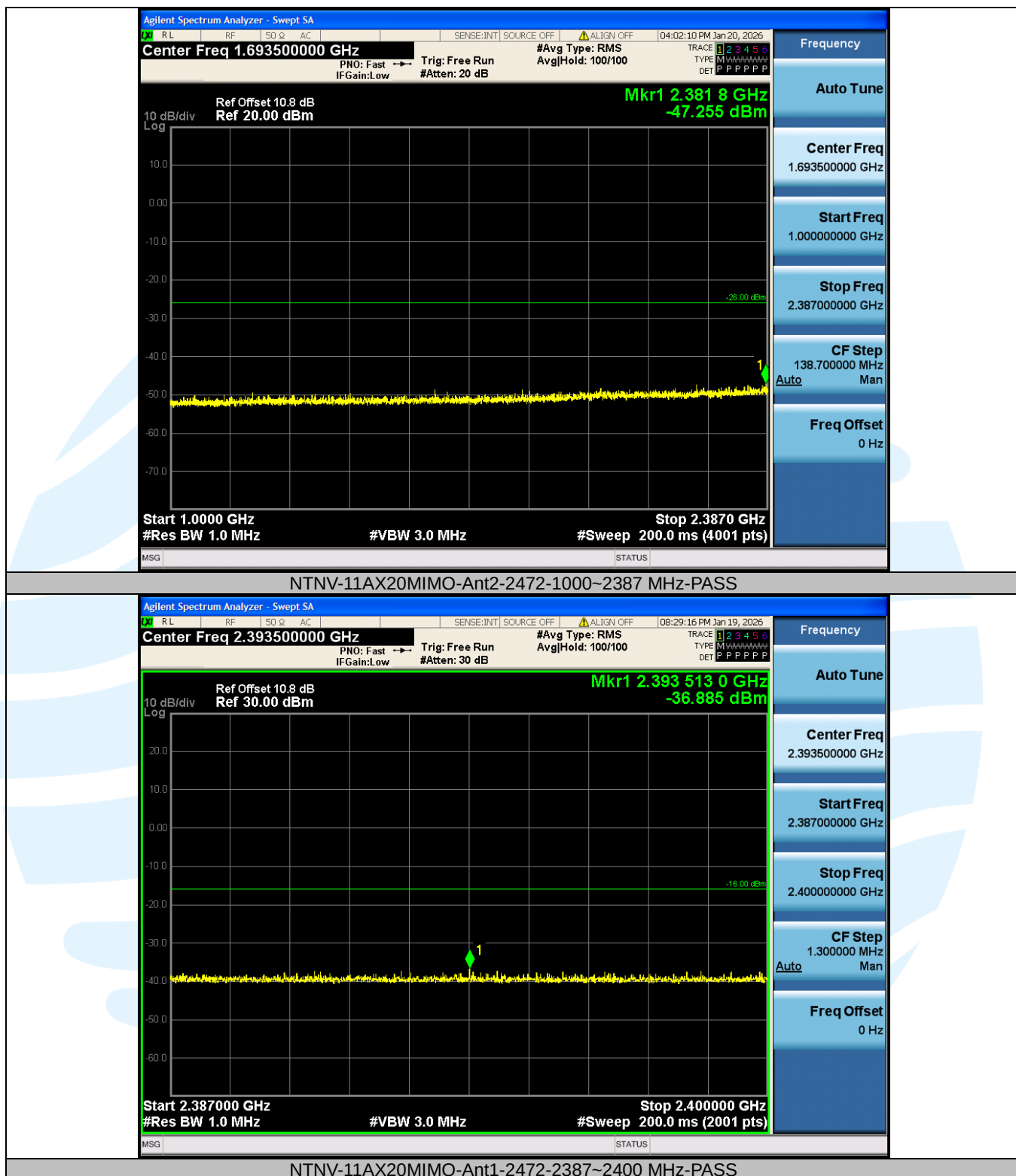
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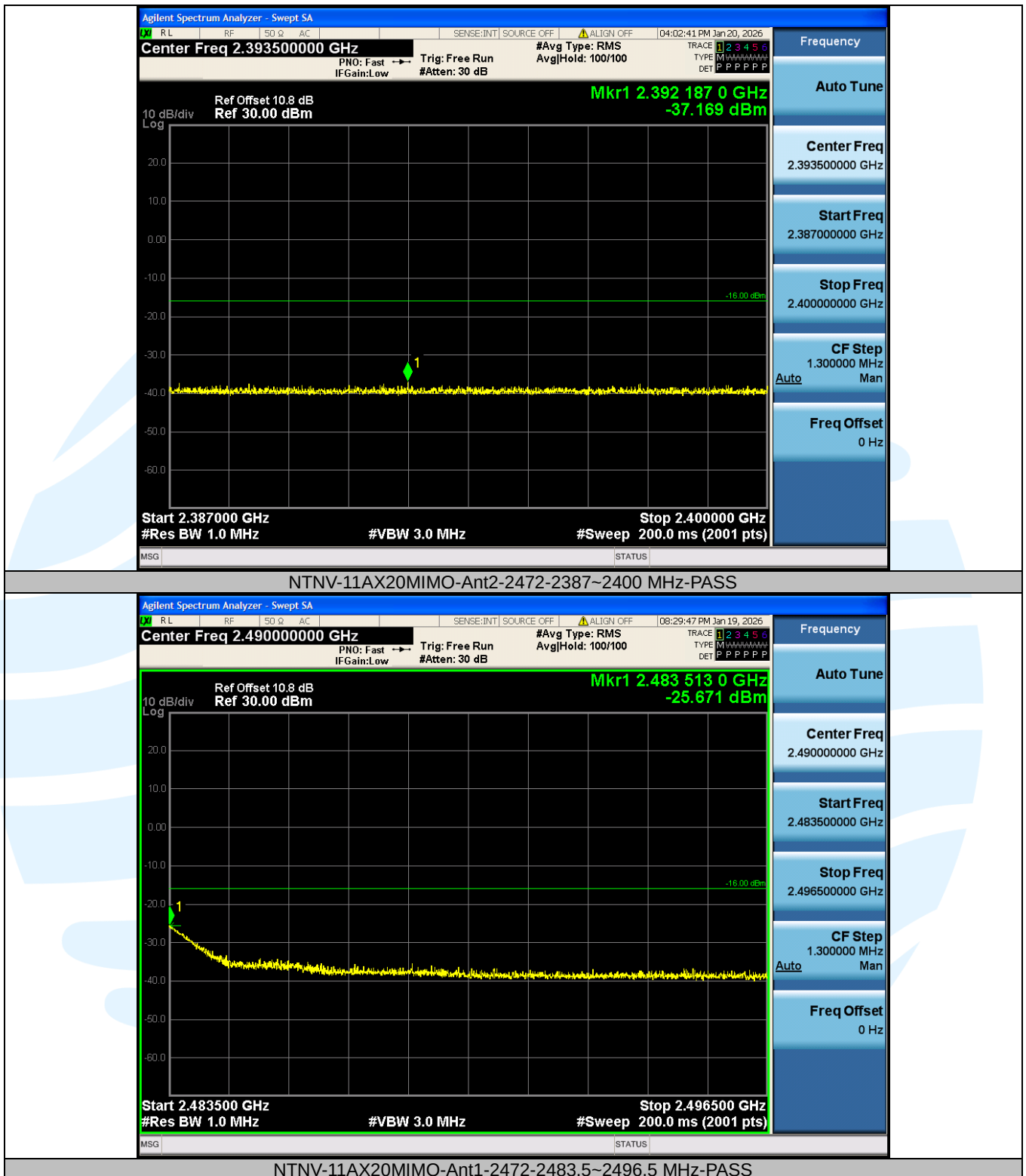
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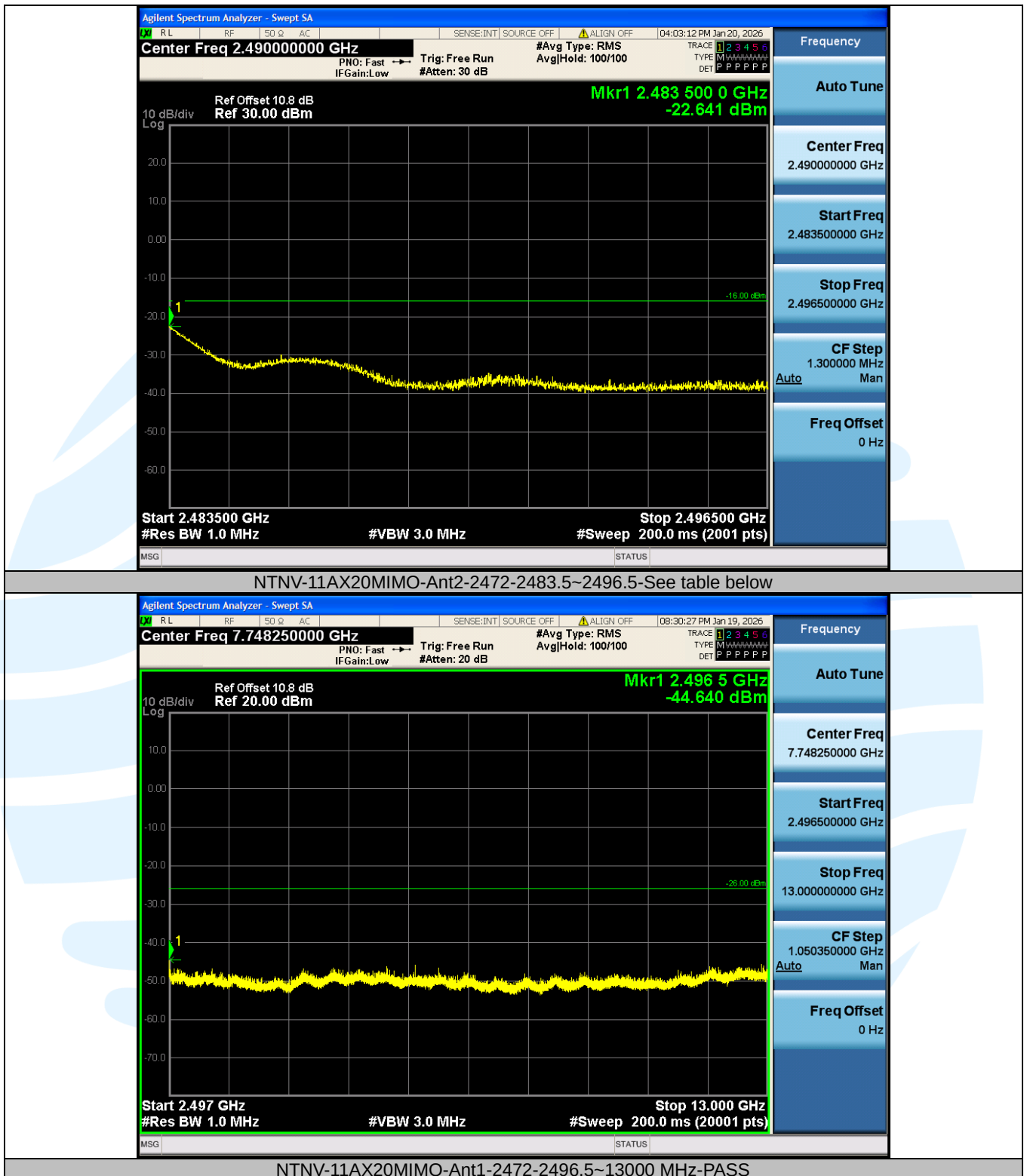
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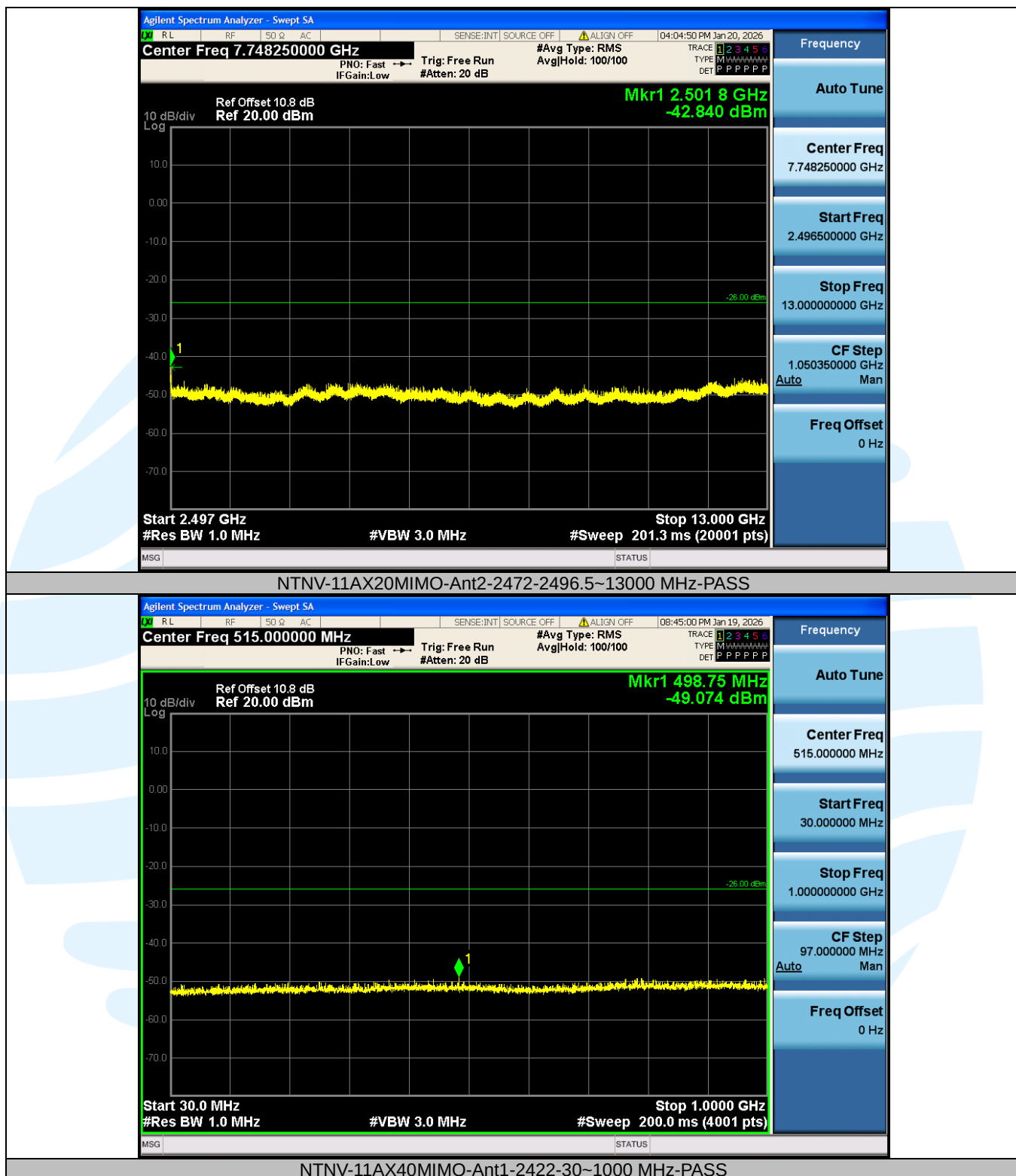
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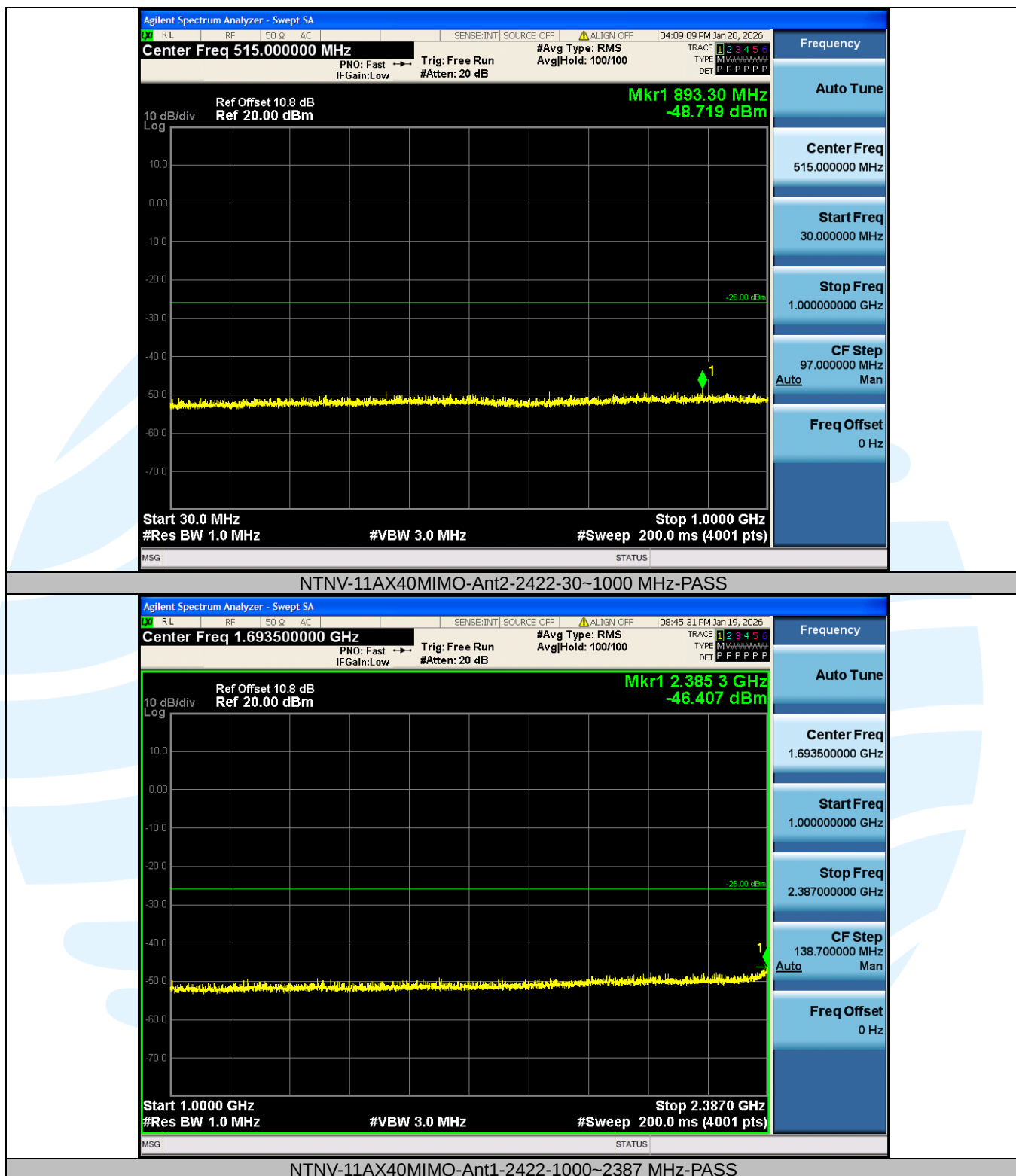
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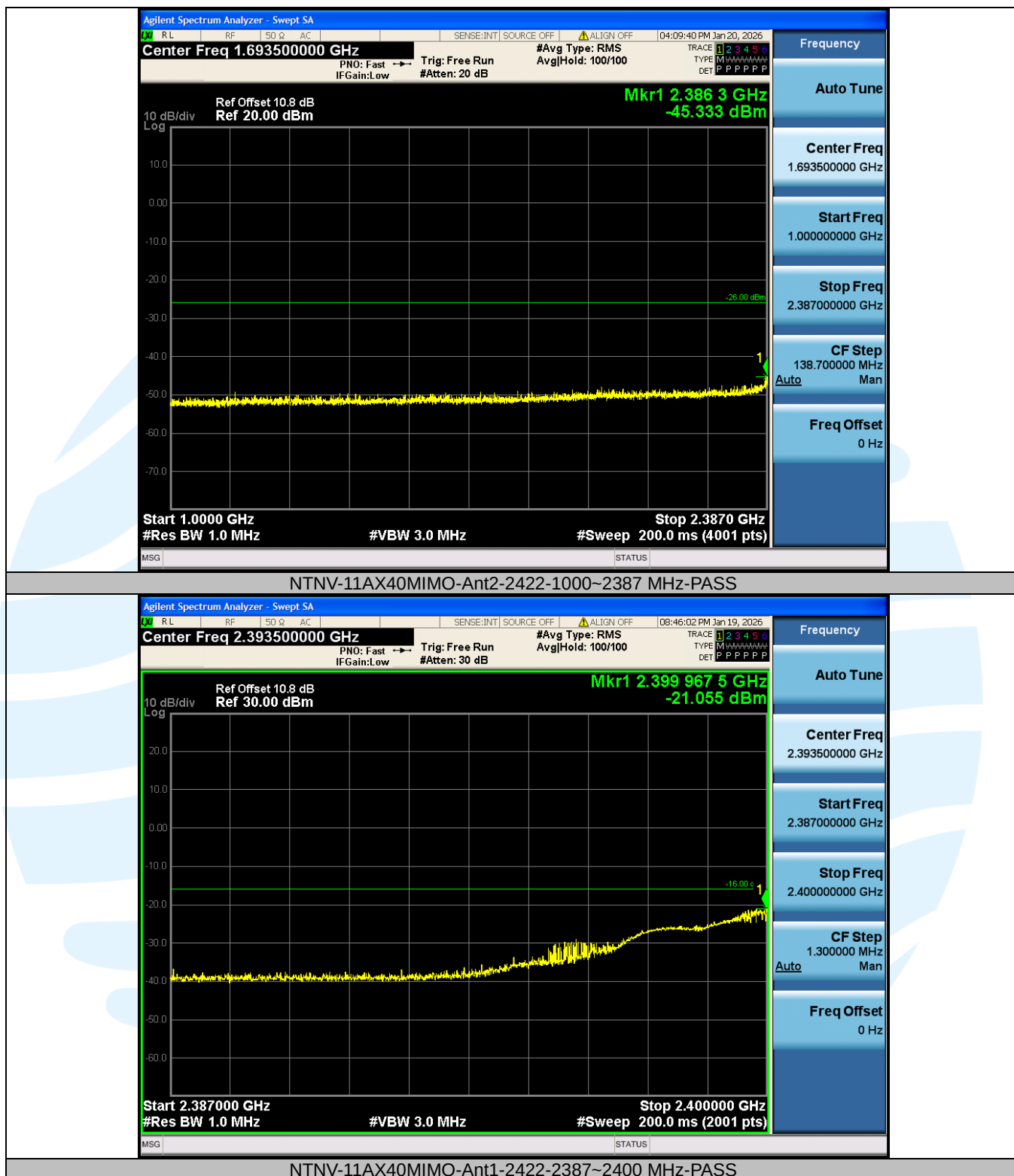
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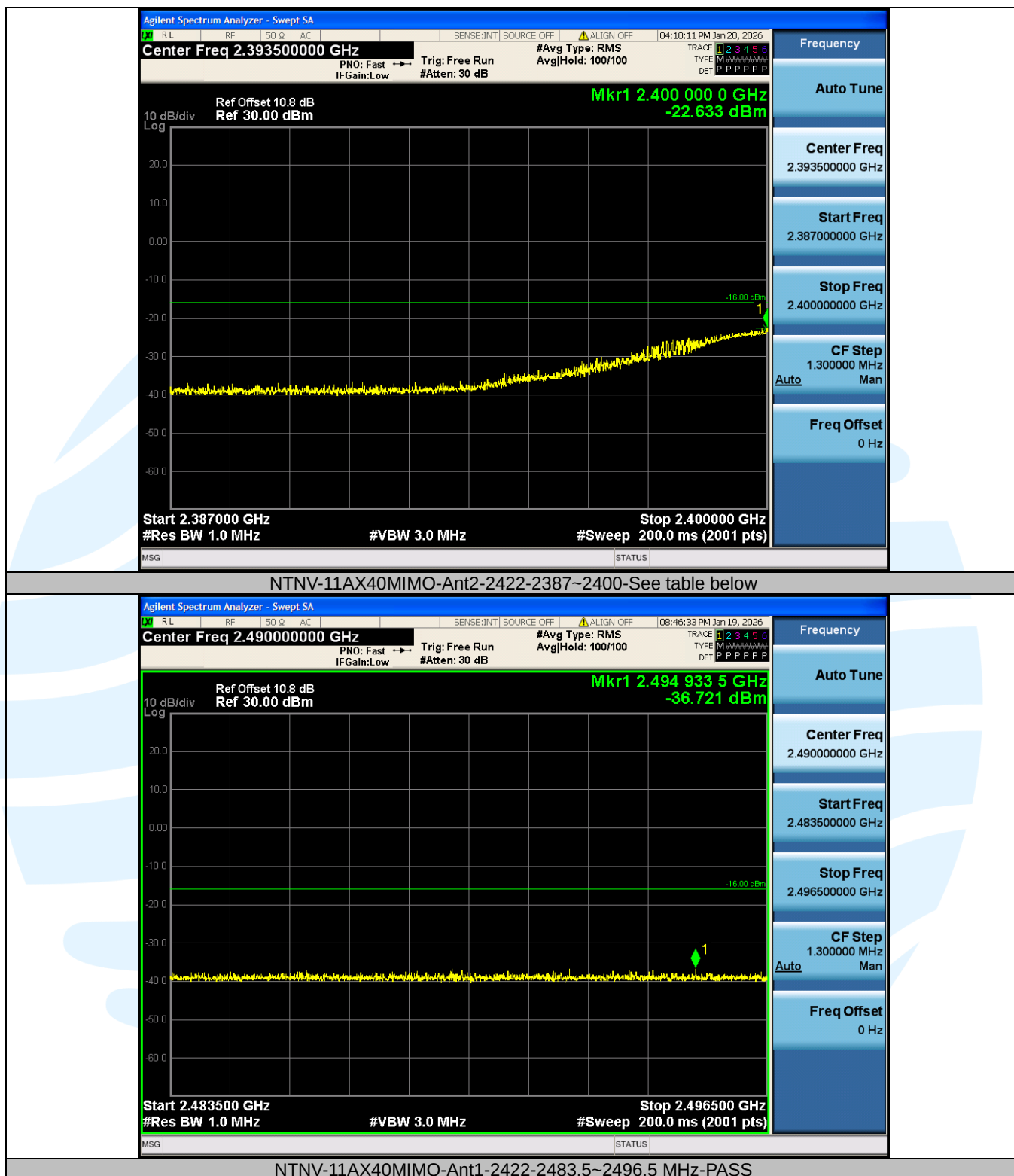
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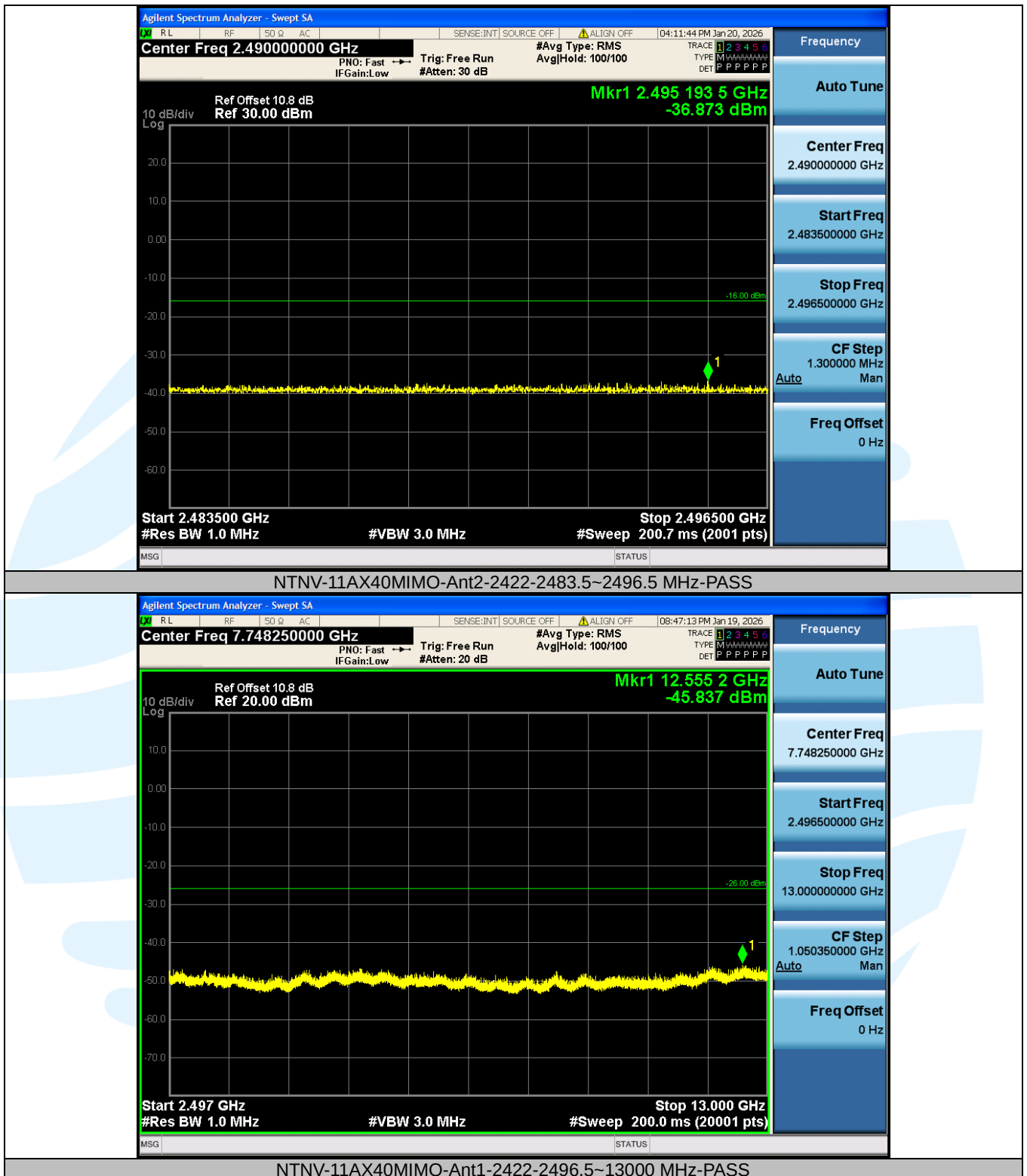
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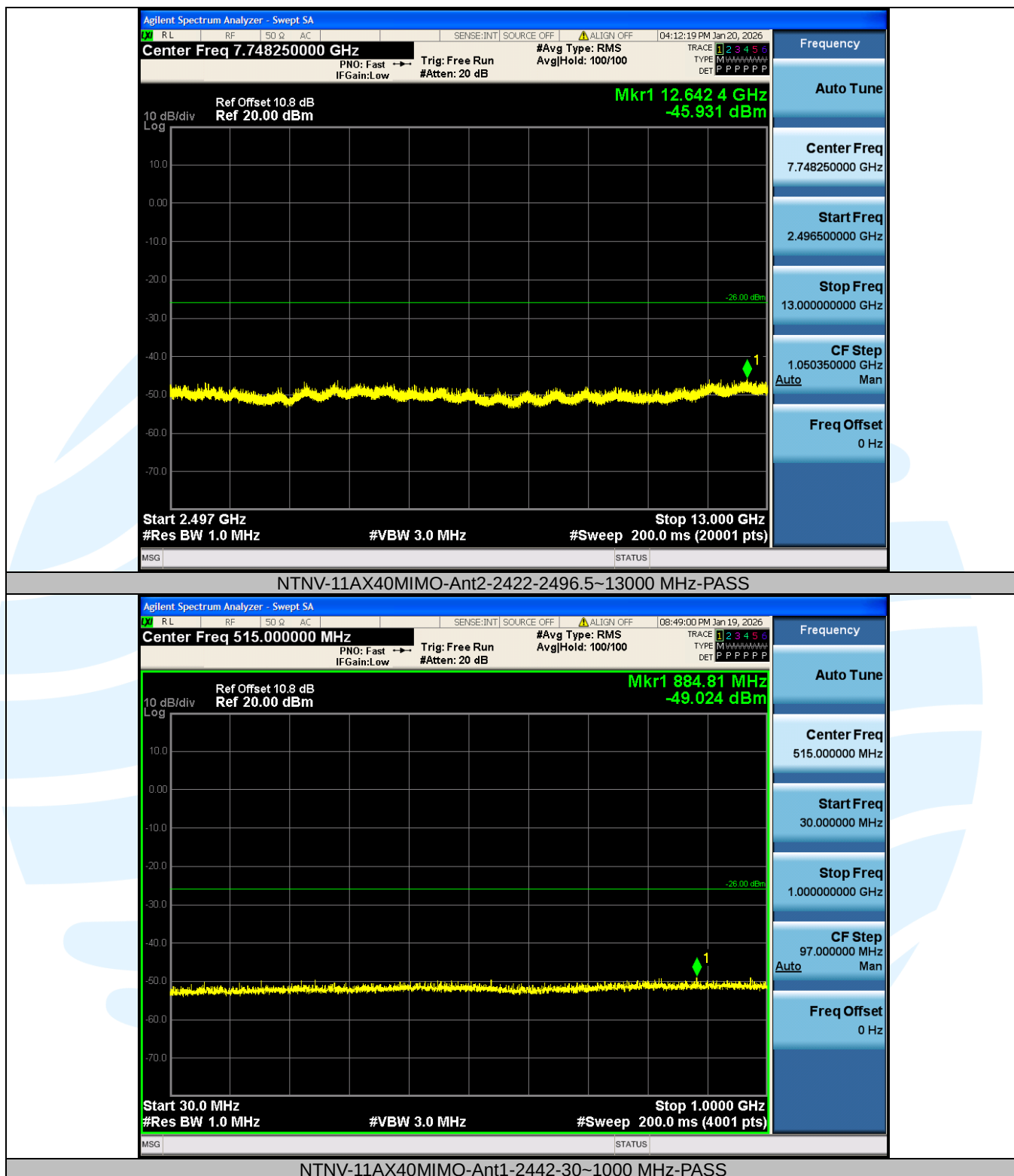
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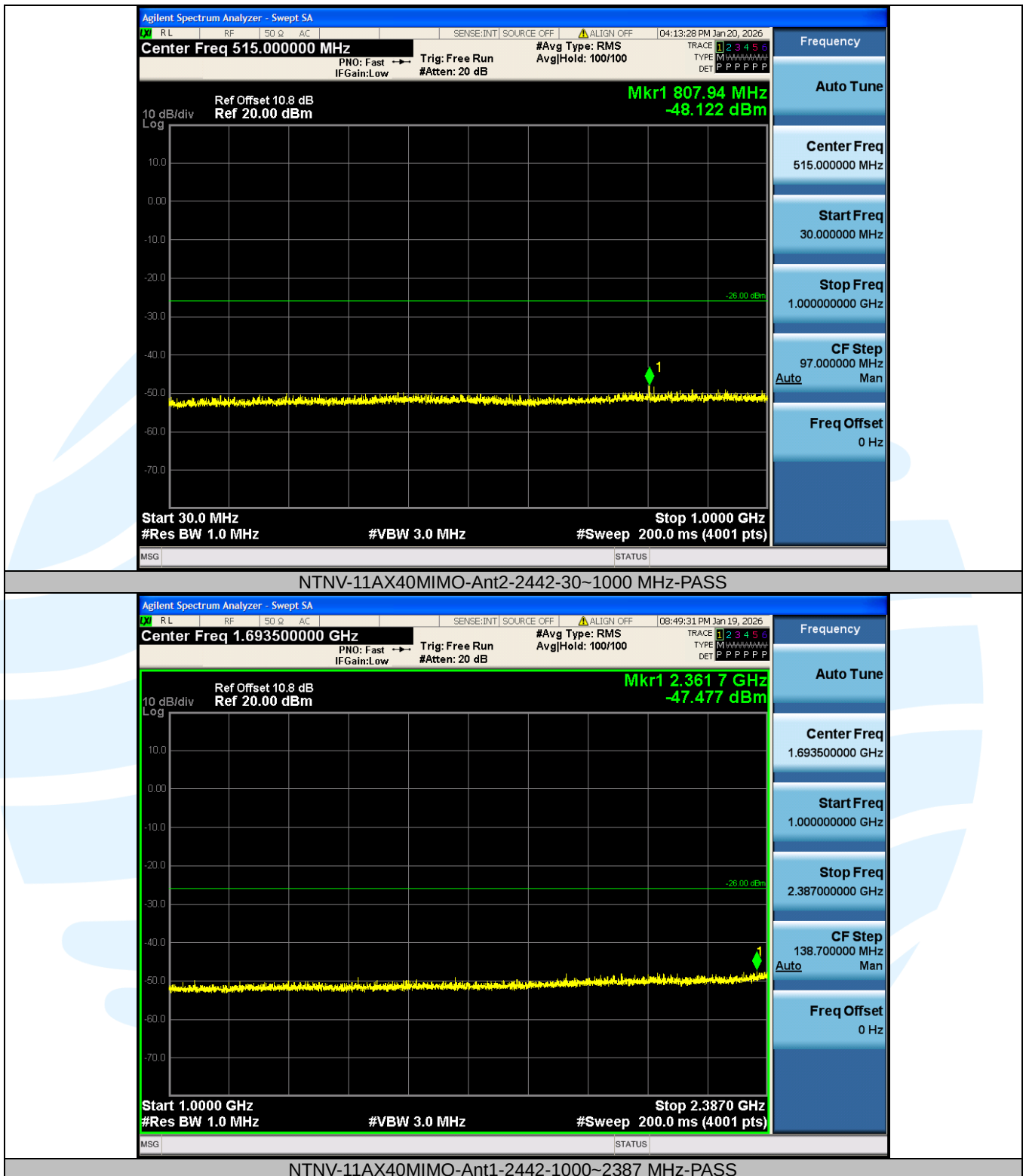
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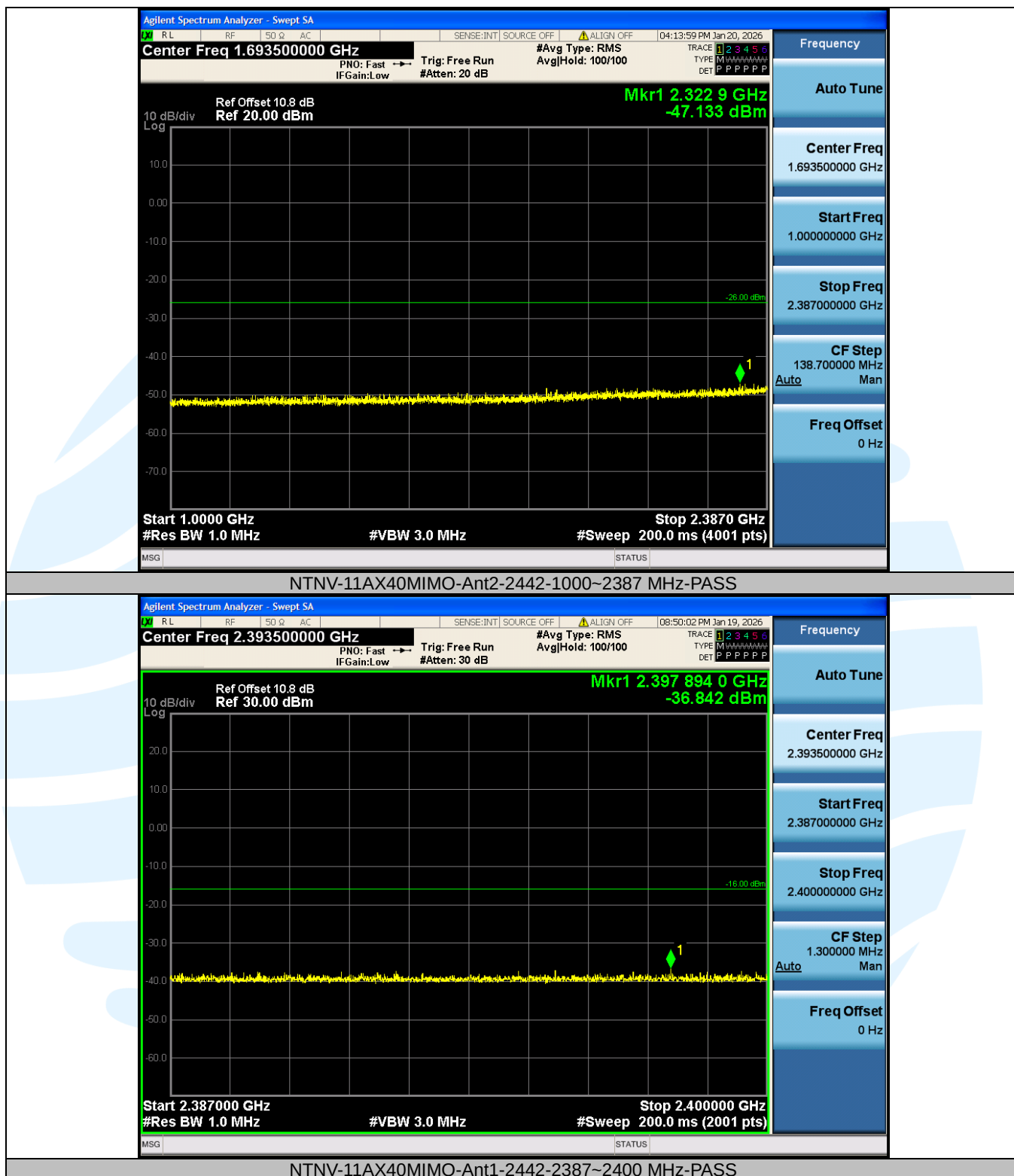
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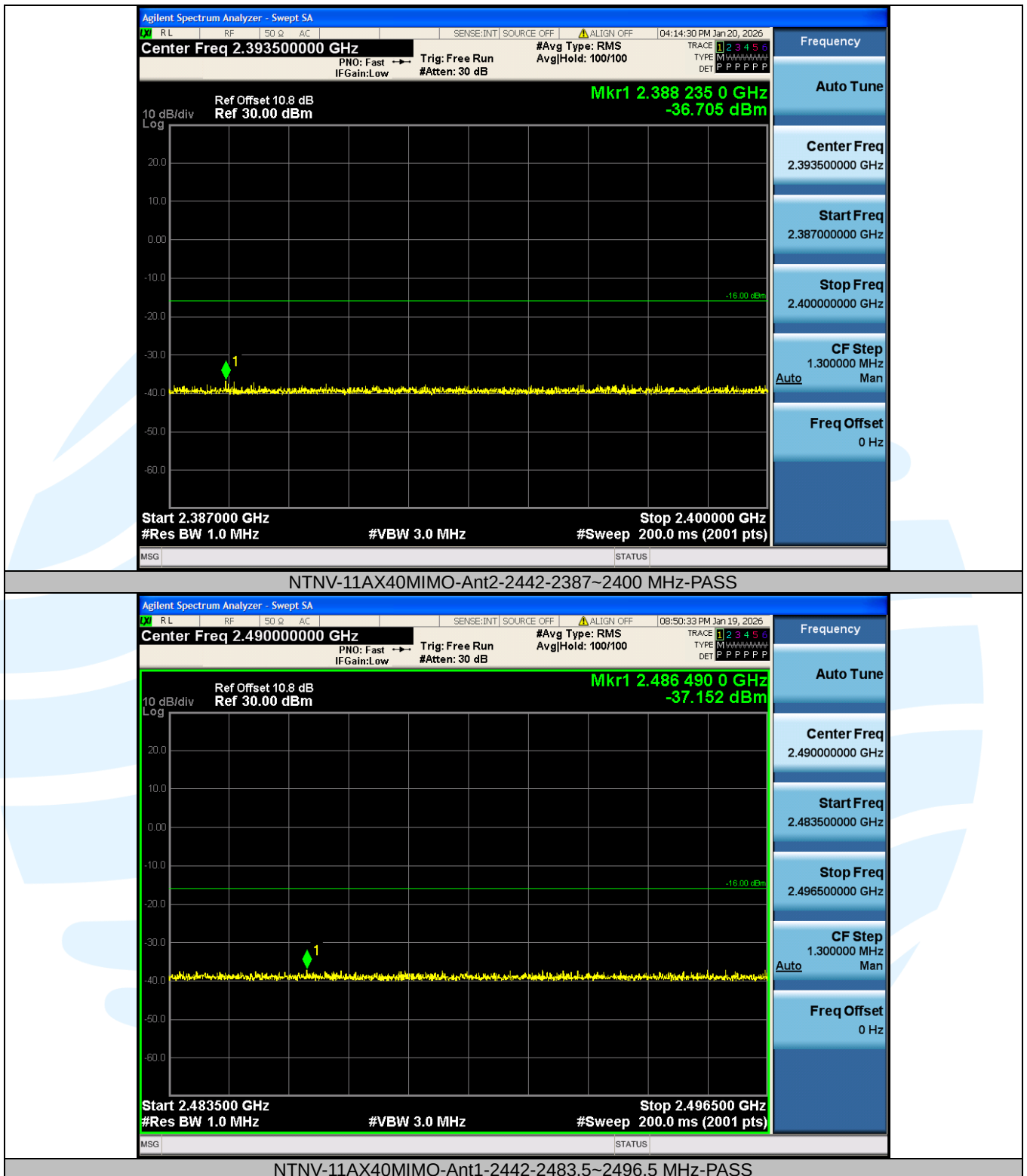
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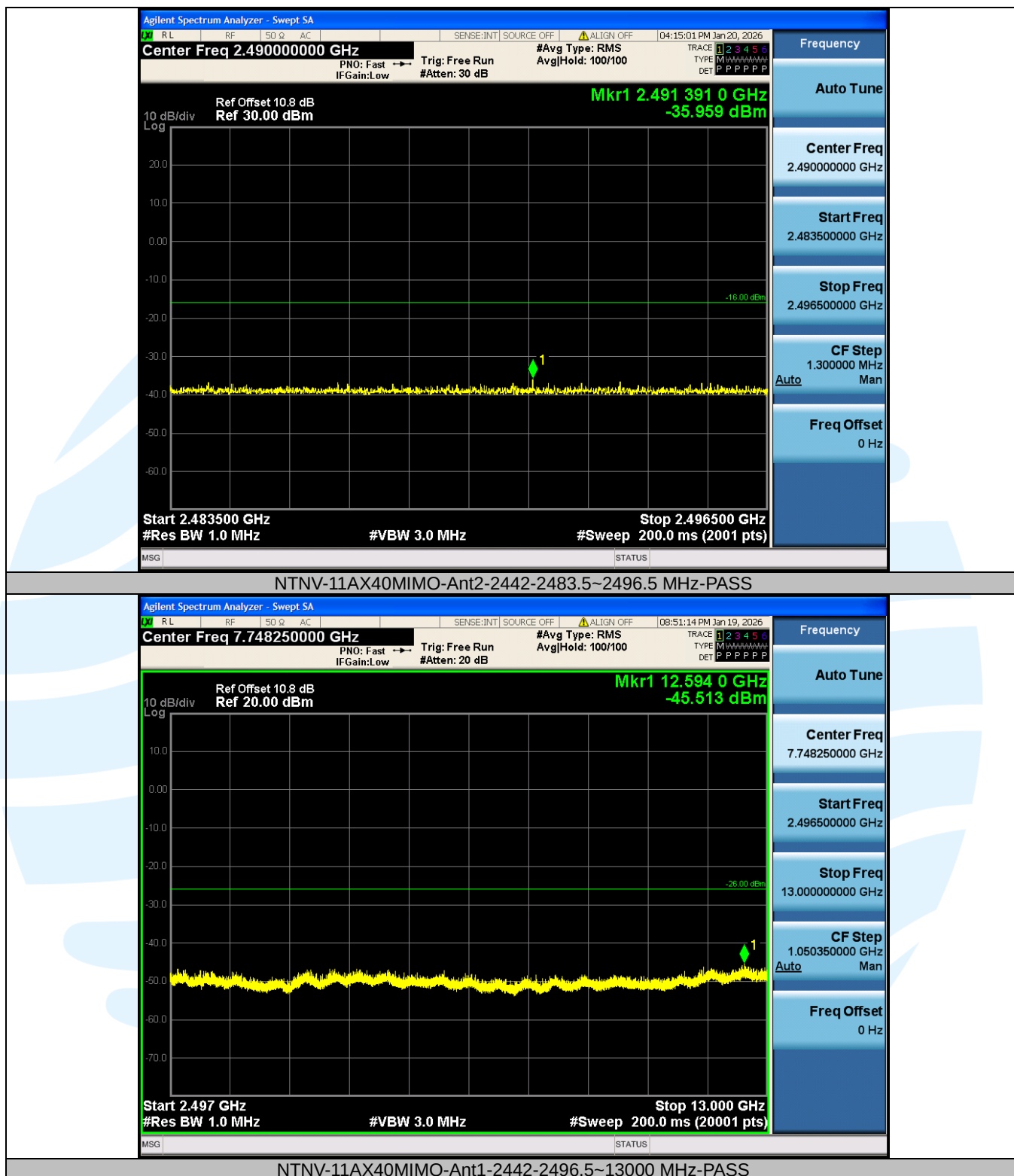
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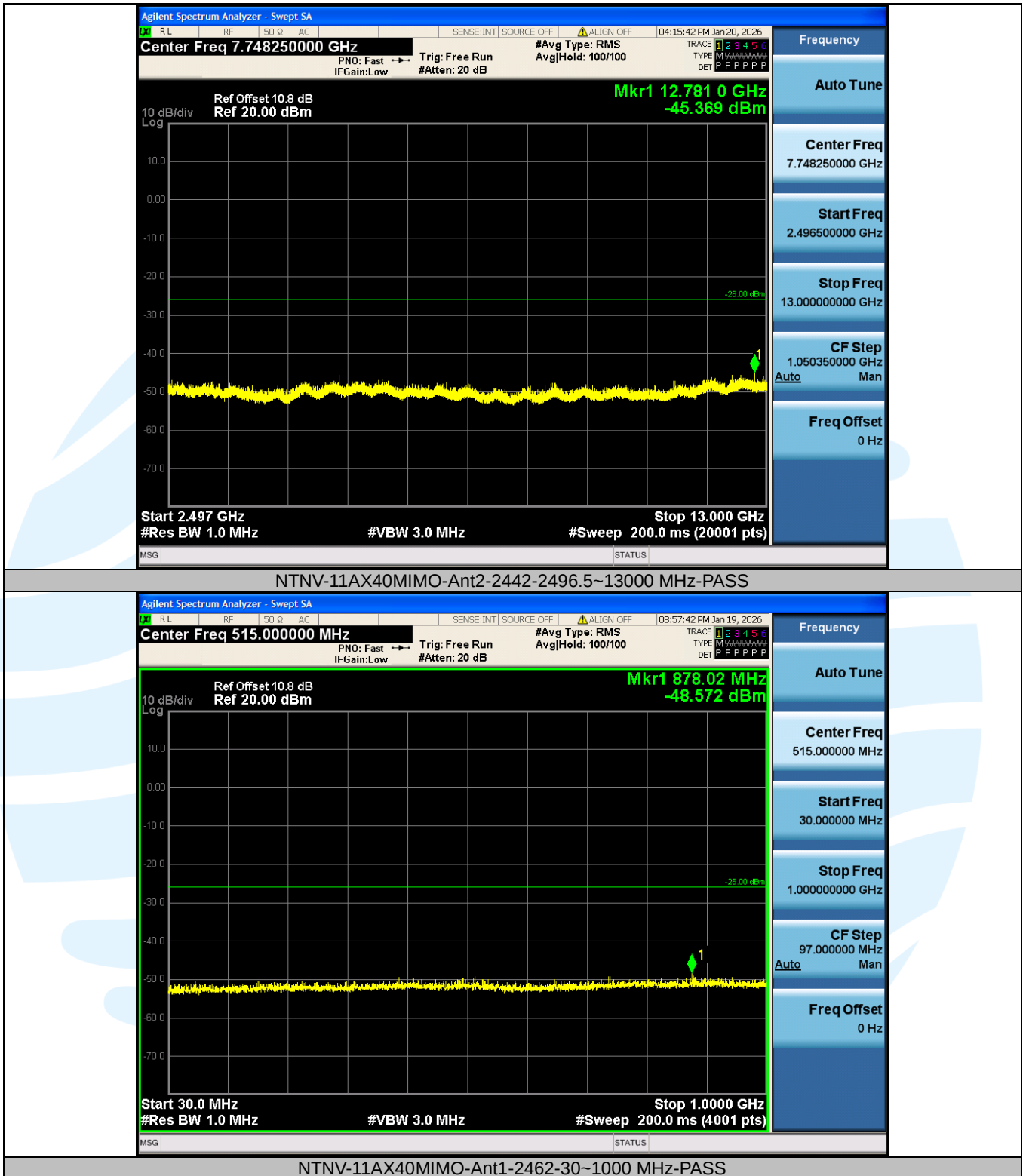
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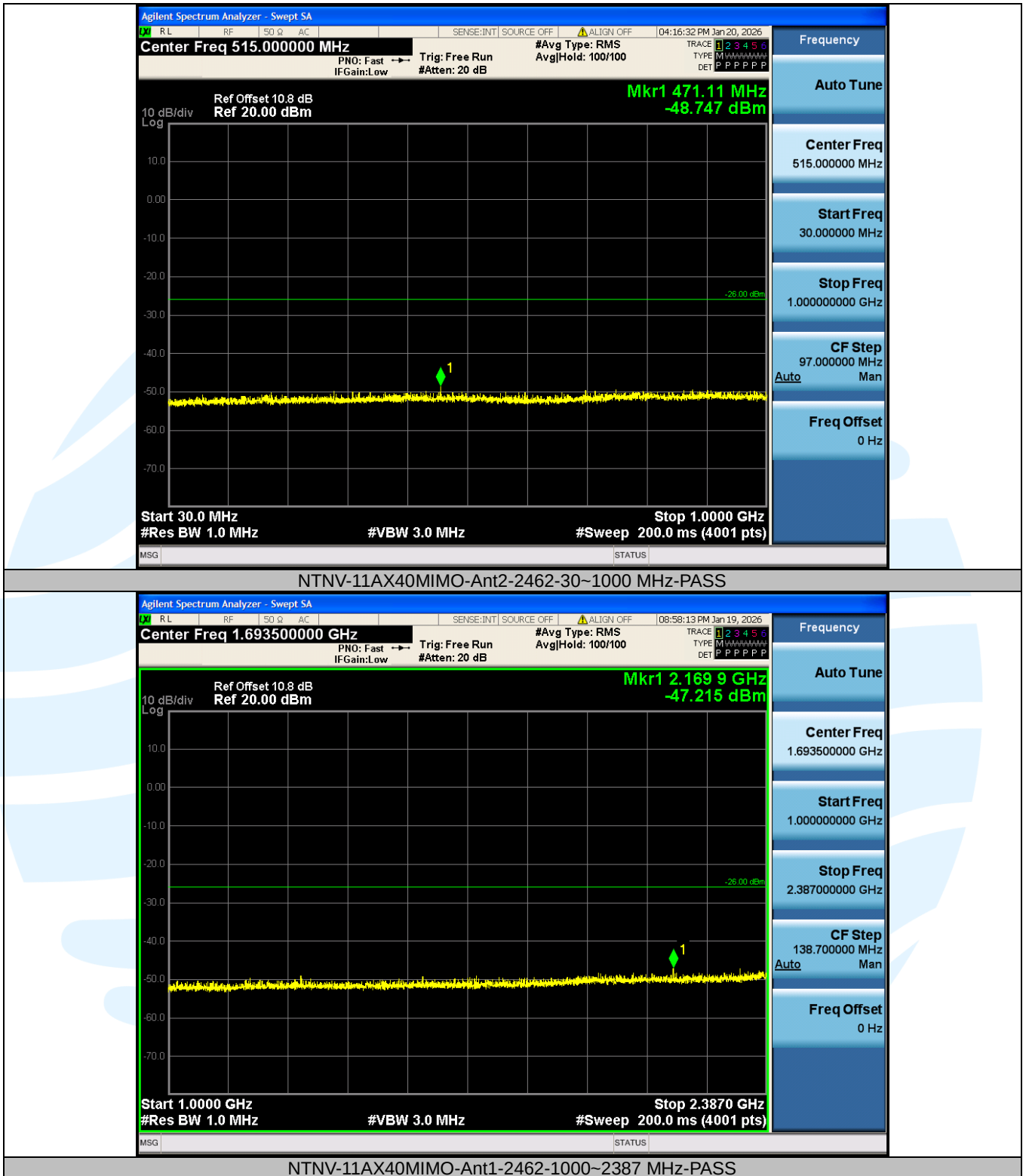
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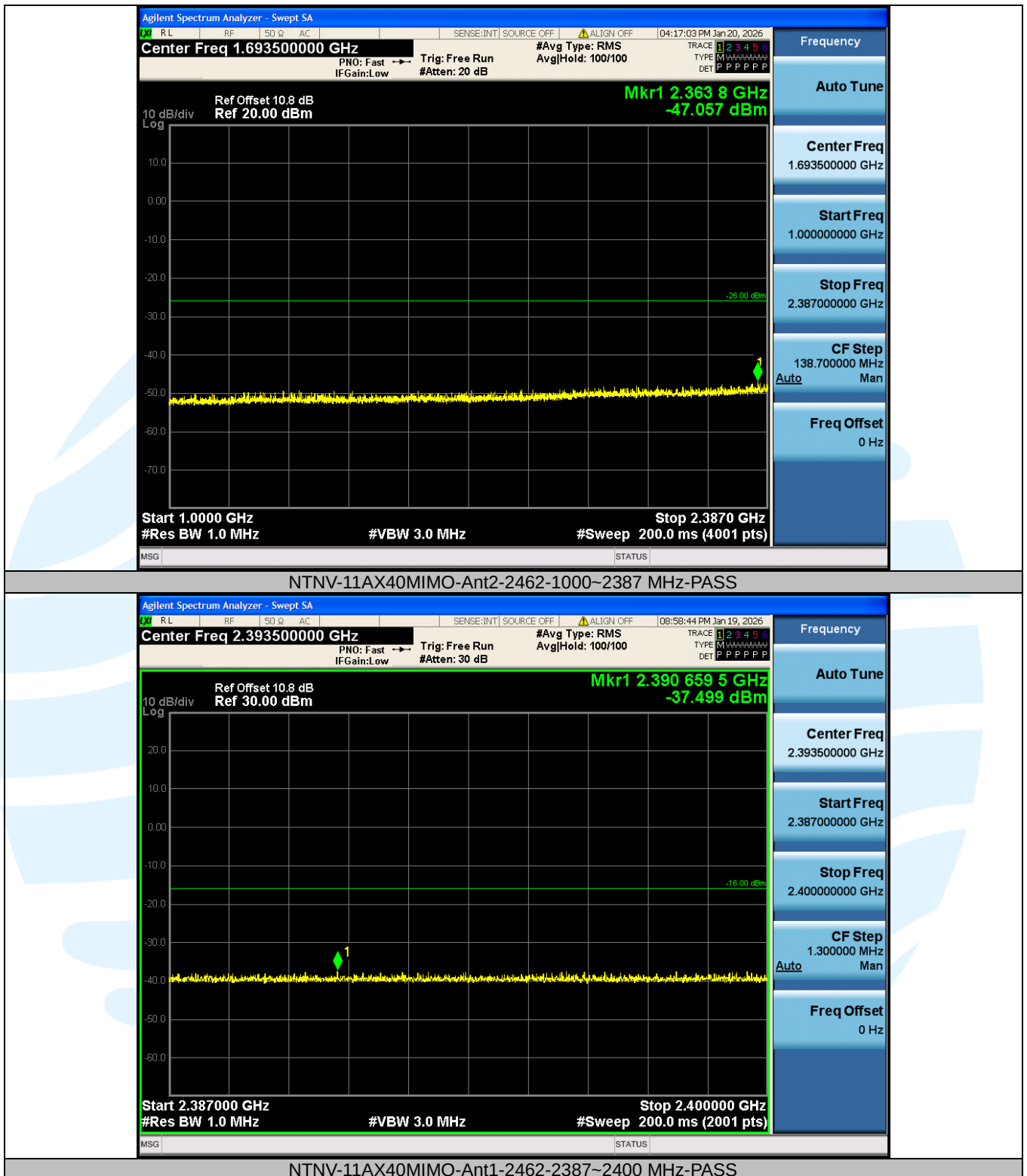
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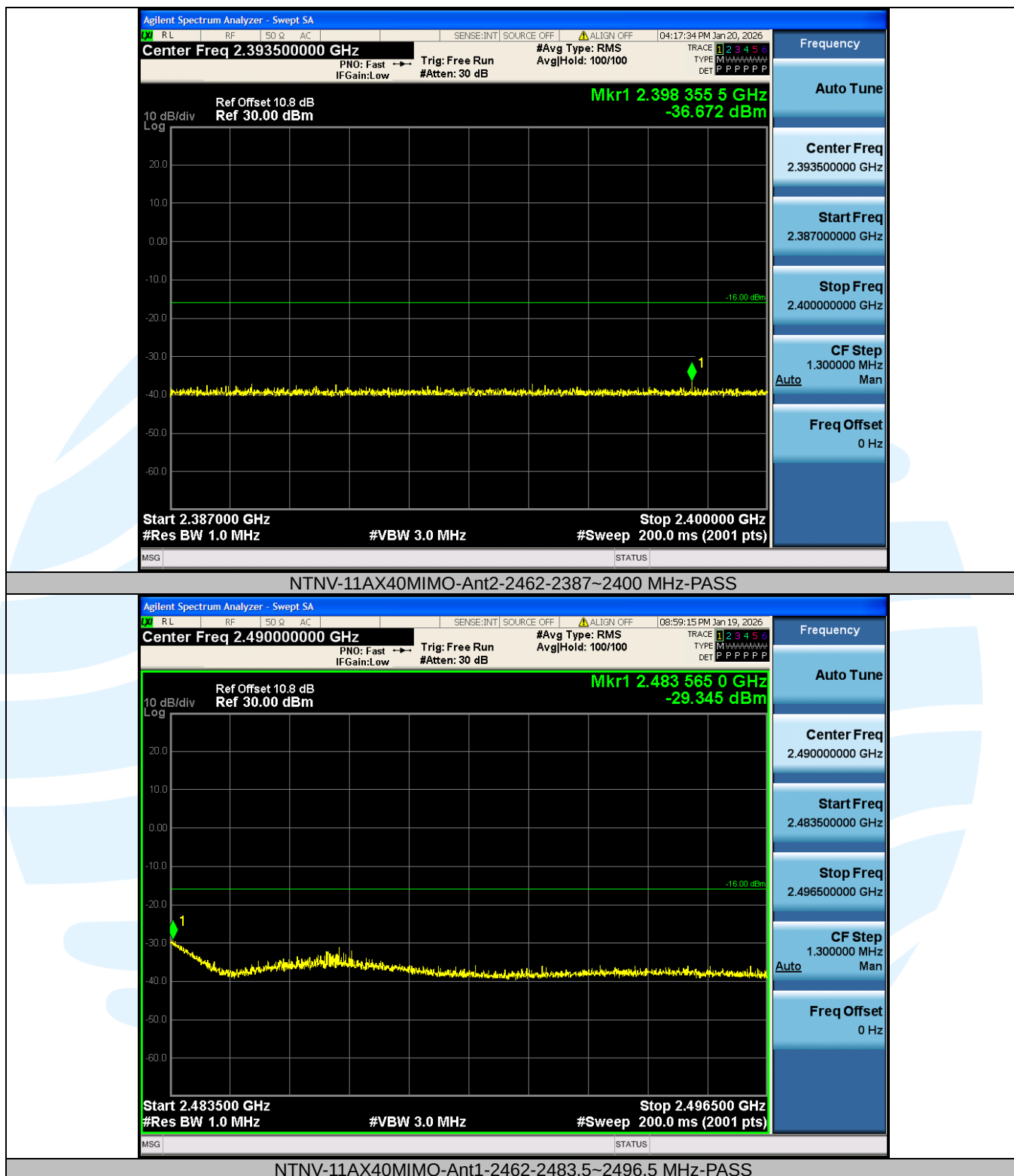
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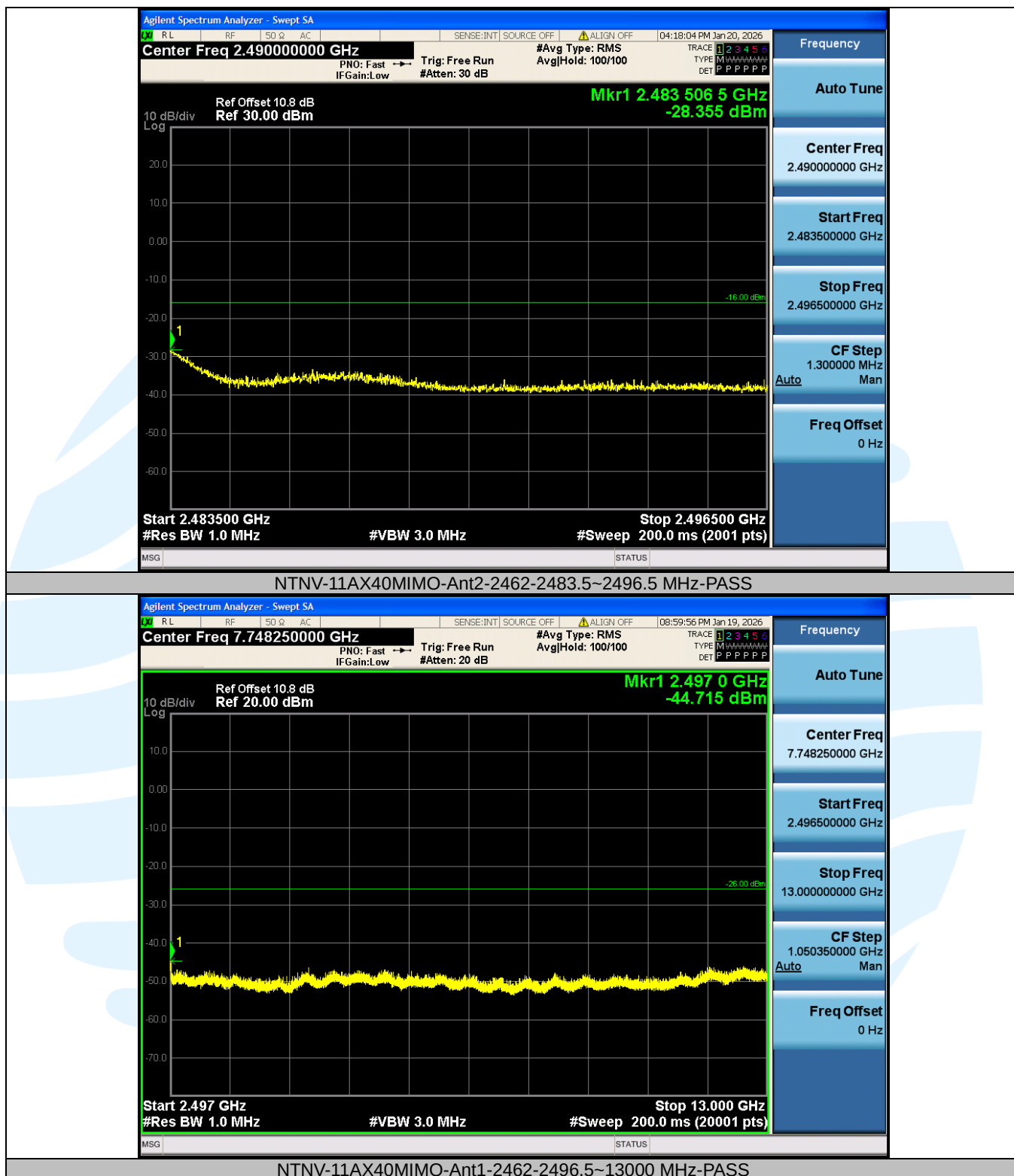
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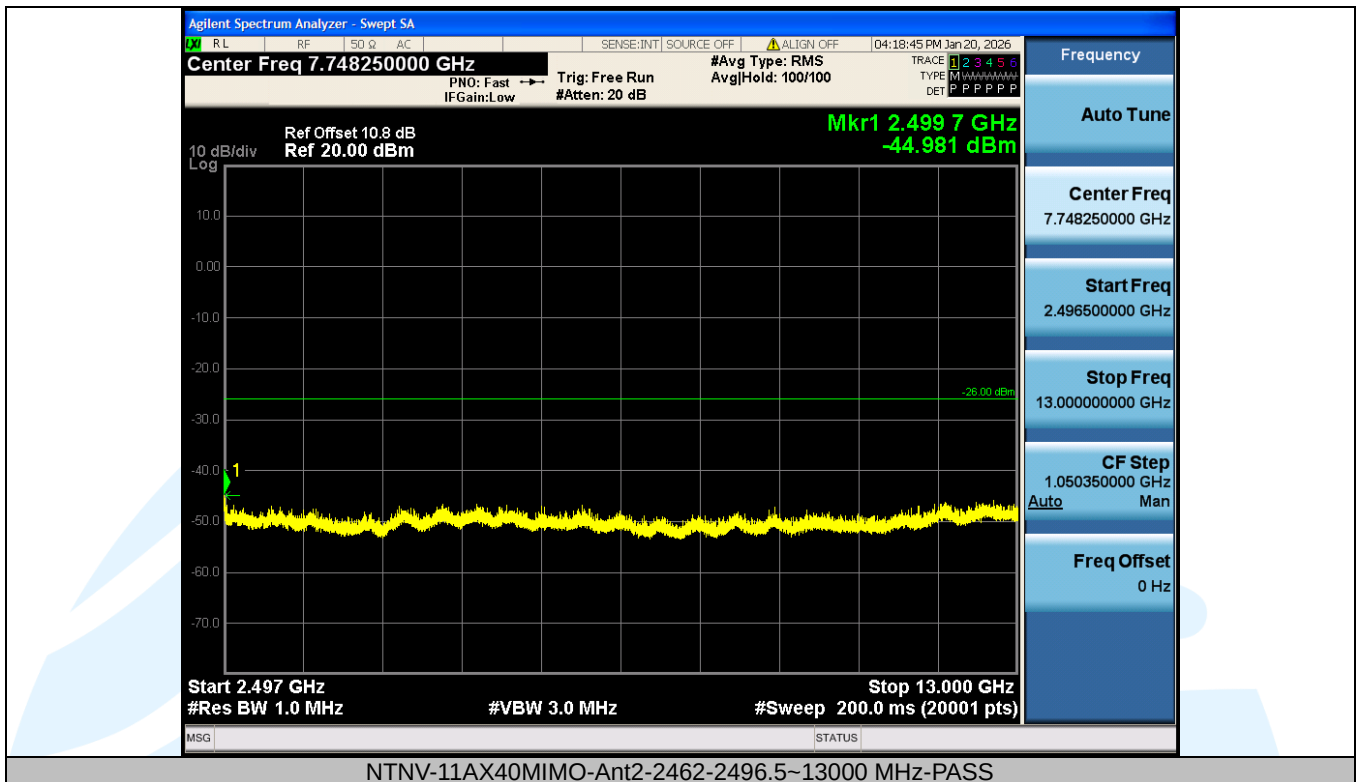
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E-mail: info@uttlab.com

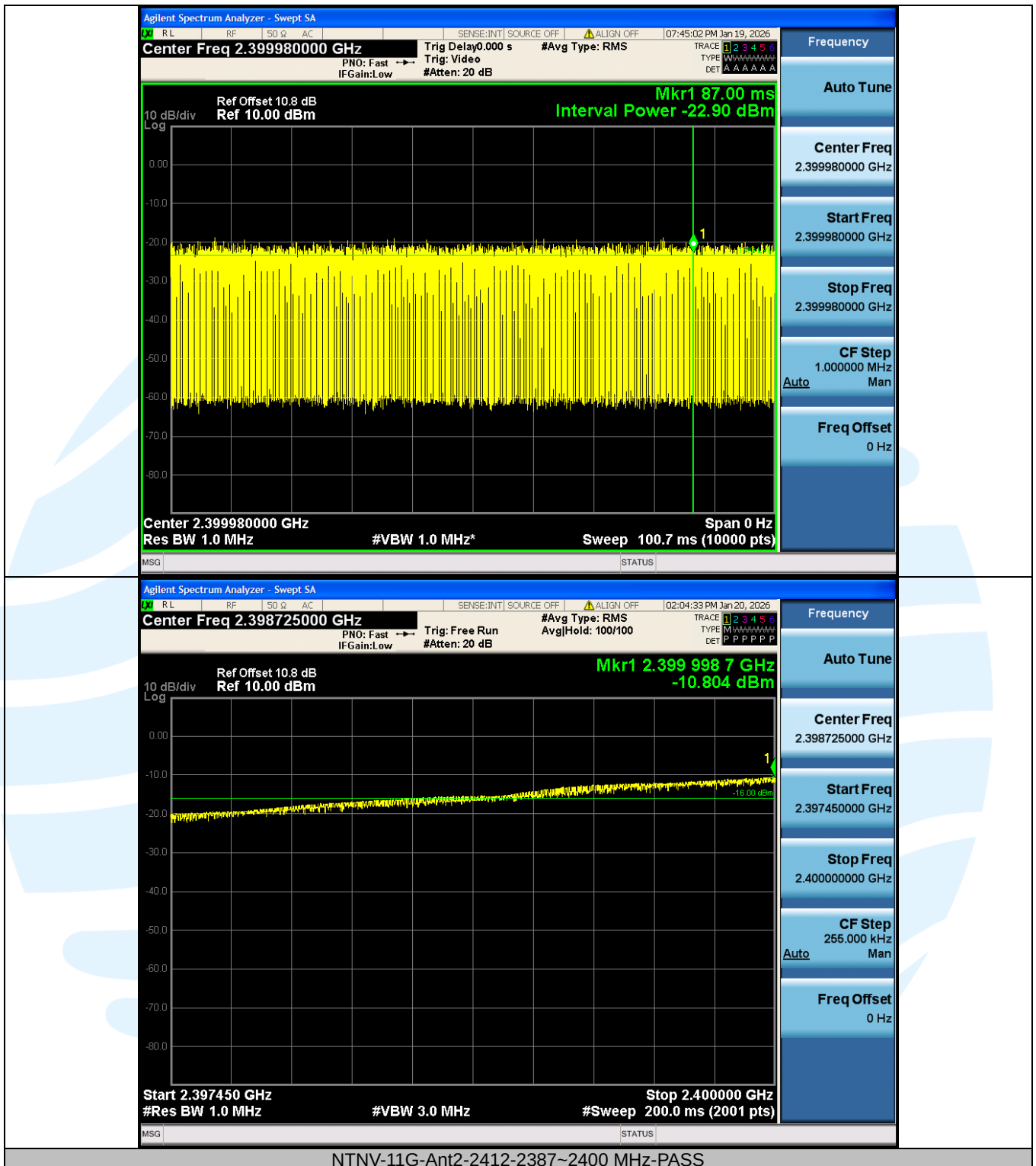
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Step 2



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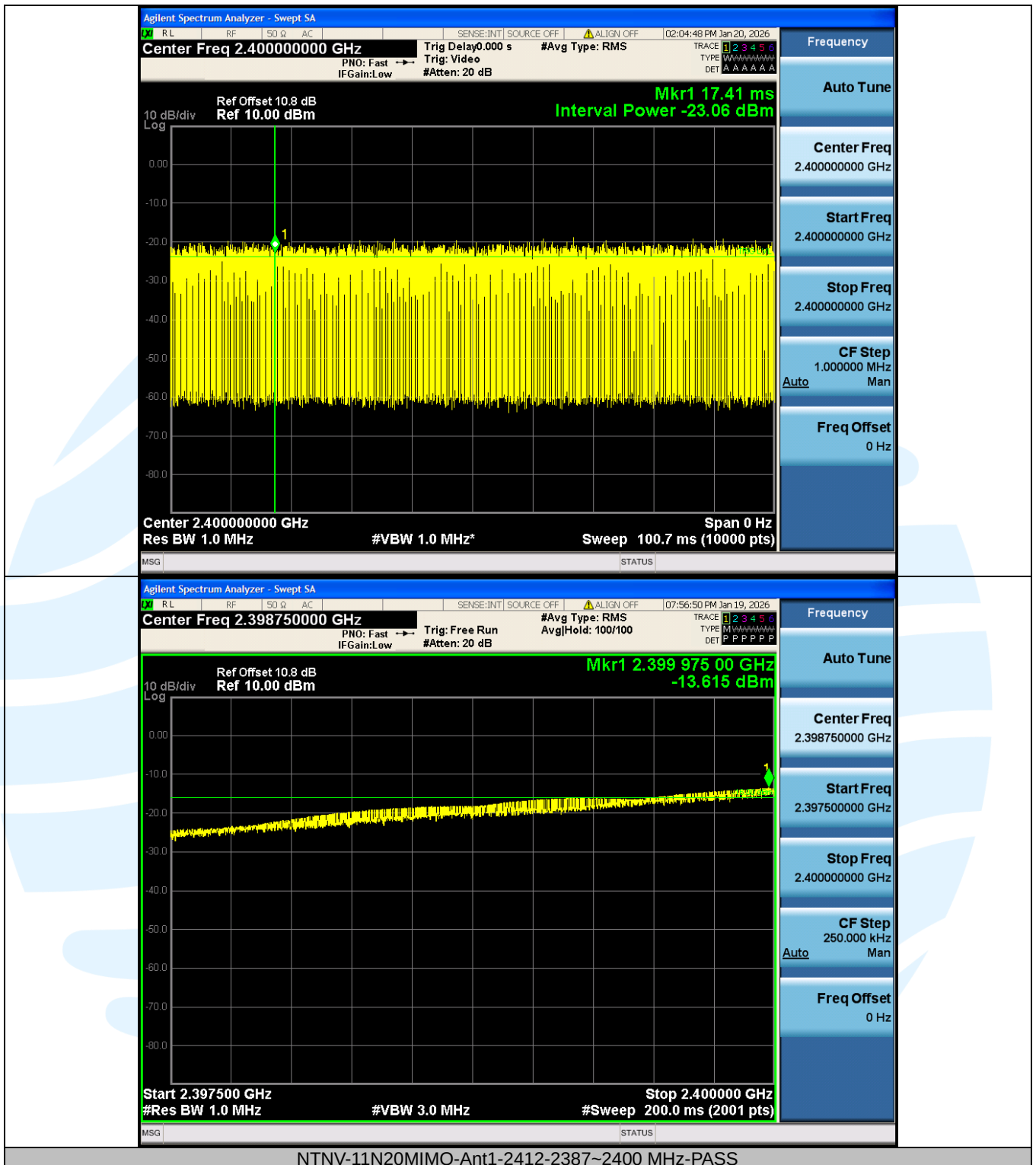
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UTTR-RF-STDT66-V1.1



NTNV-11N20MIMO-Ant1-2412-2387~2400 MHz-PASS

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Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

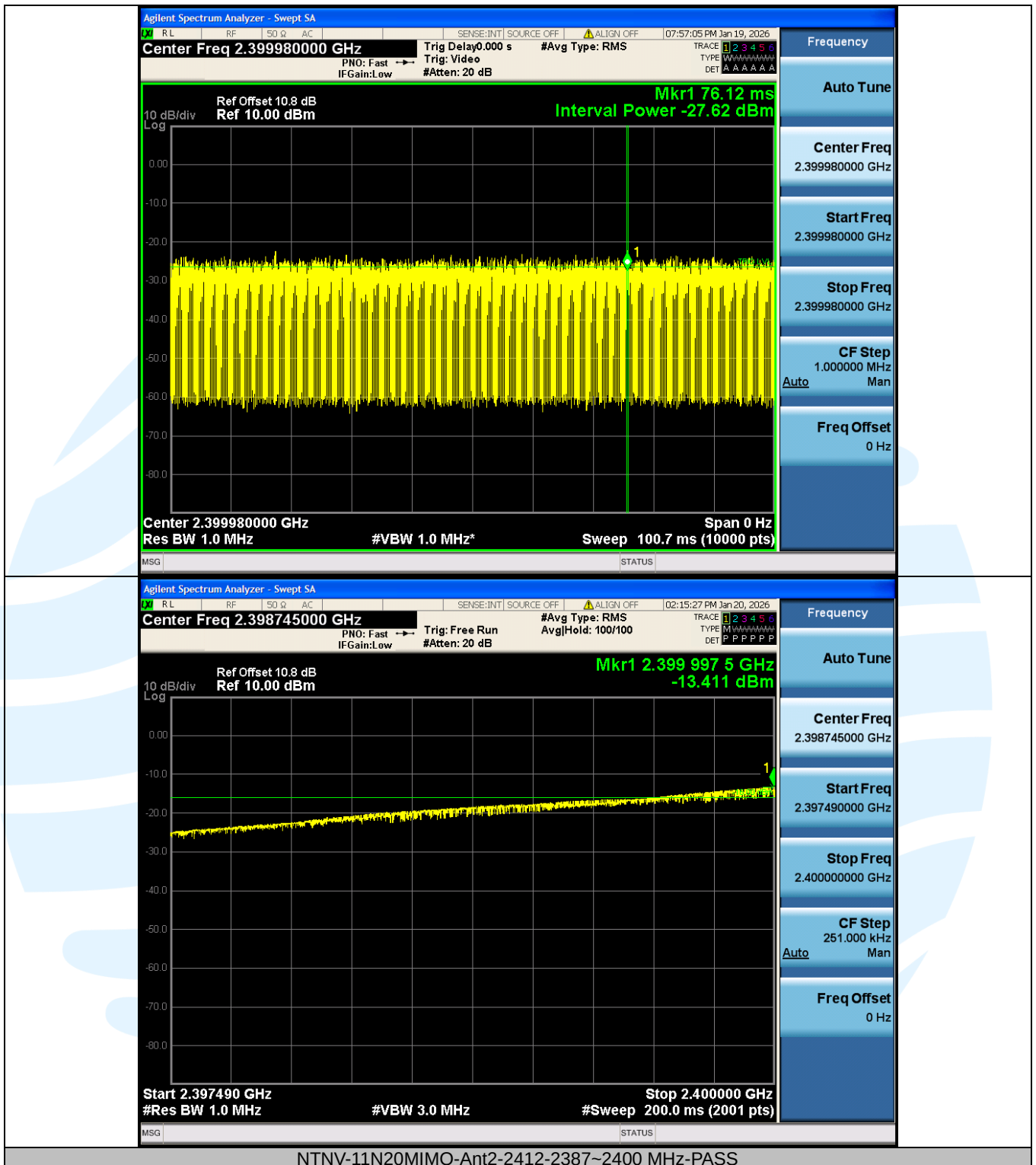
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UTTR-RF-STDT66-V1.1



NTNV-11N20MIMO-Ant2-2412-2387~2400 MHz-PASS

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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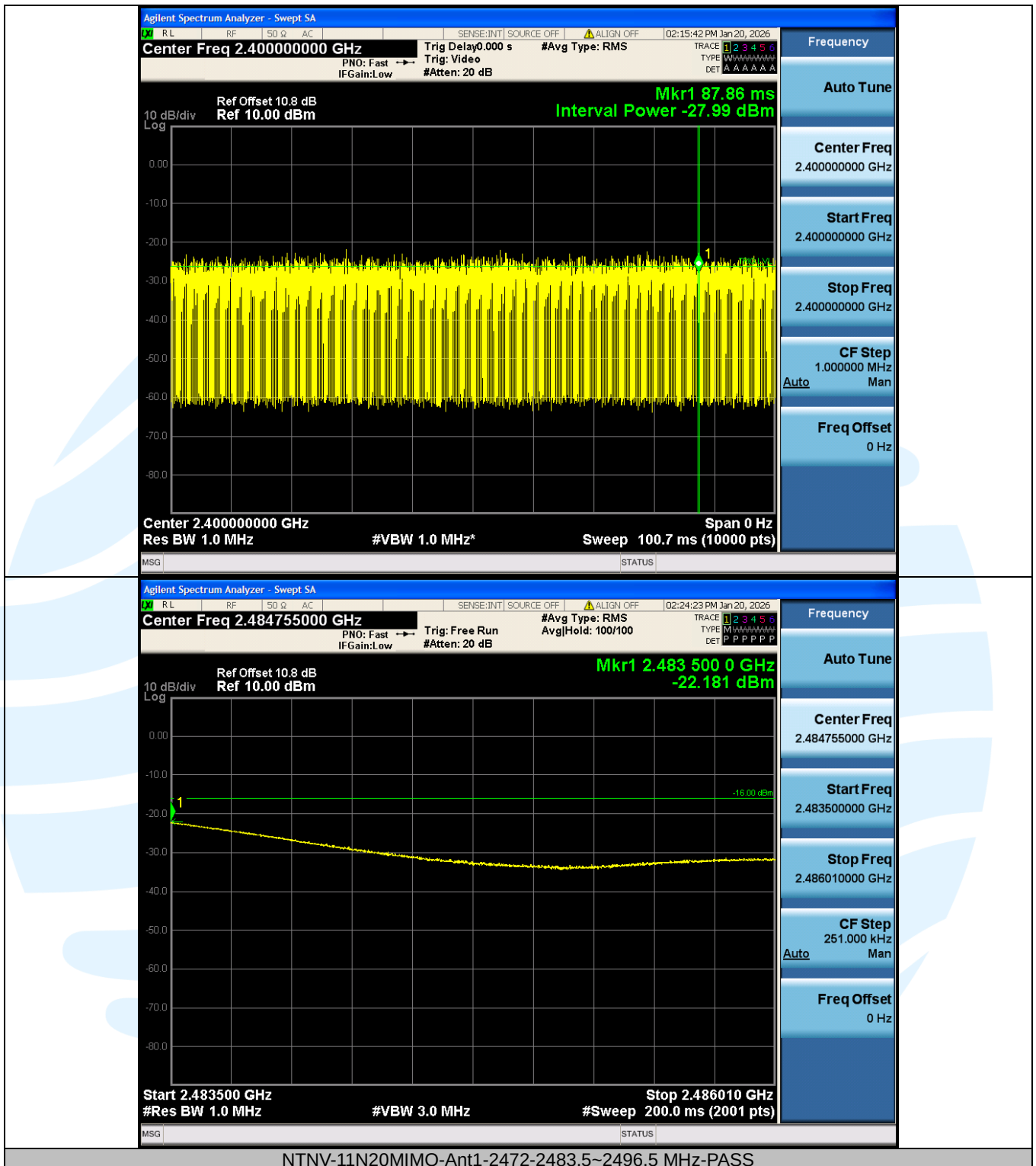
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NTNV-11N20MIMO-Ant1-2472-2483.5~2496.5 MHz-PASS

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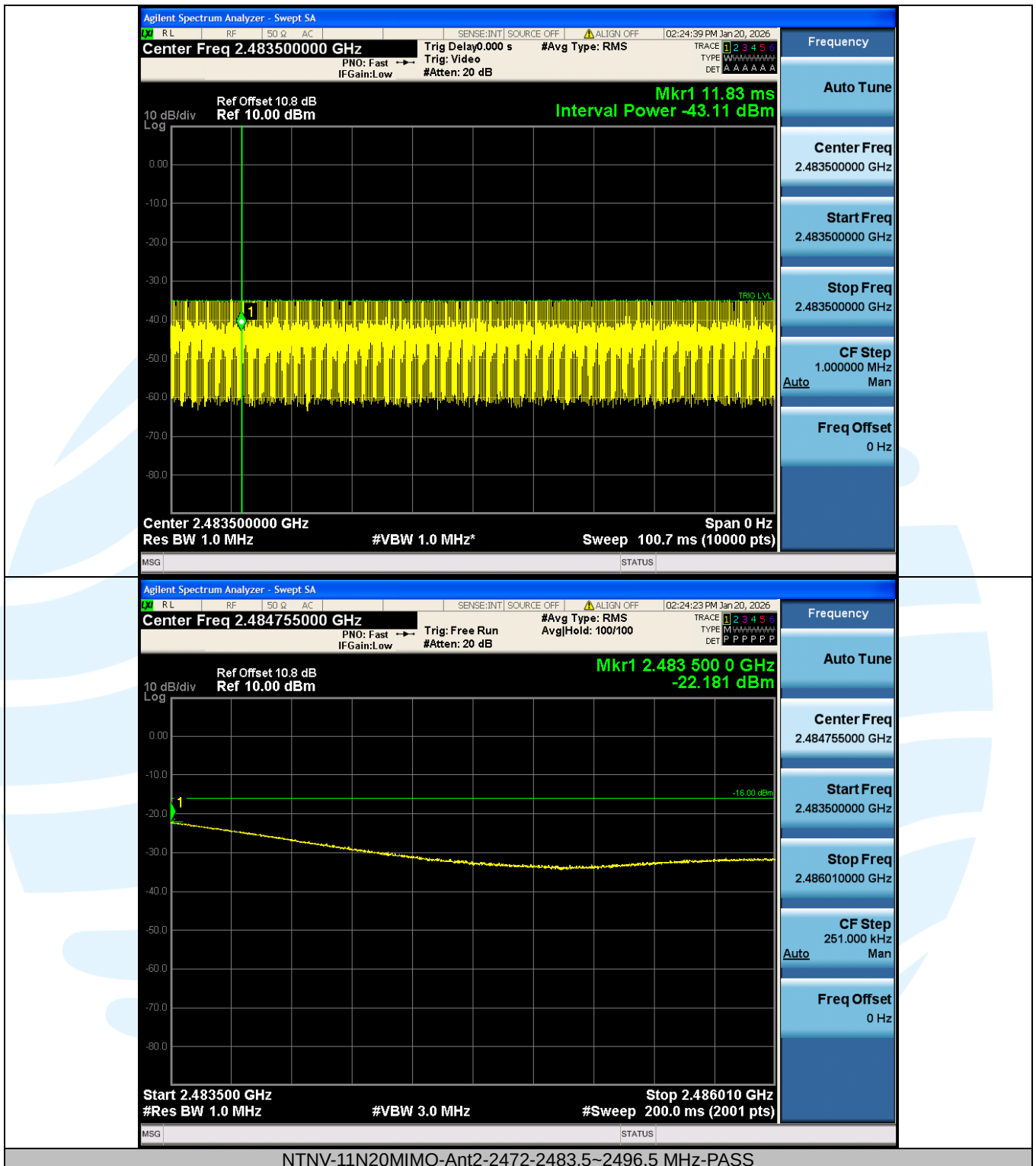
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NTNV-11N20MIMO-Ant2-2472-2483.5~2496.5 MHz-PASS

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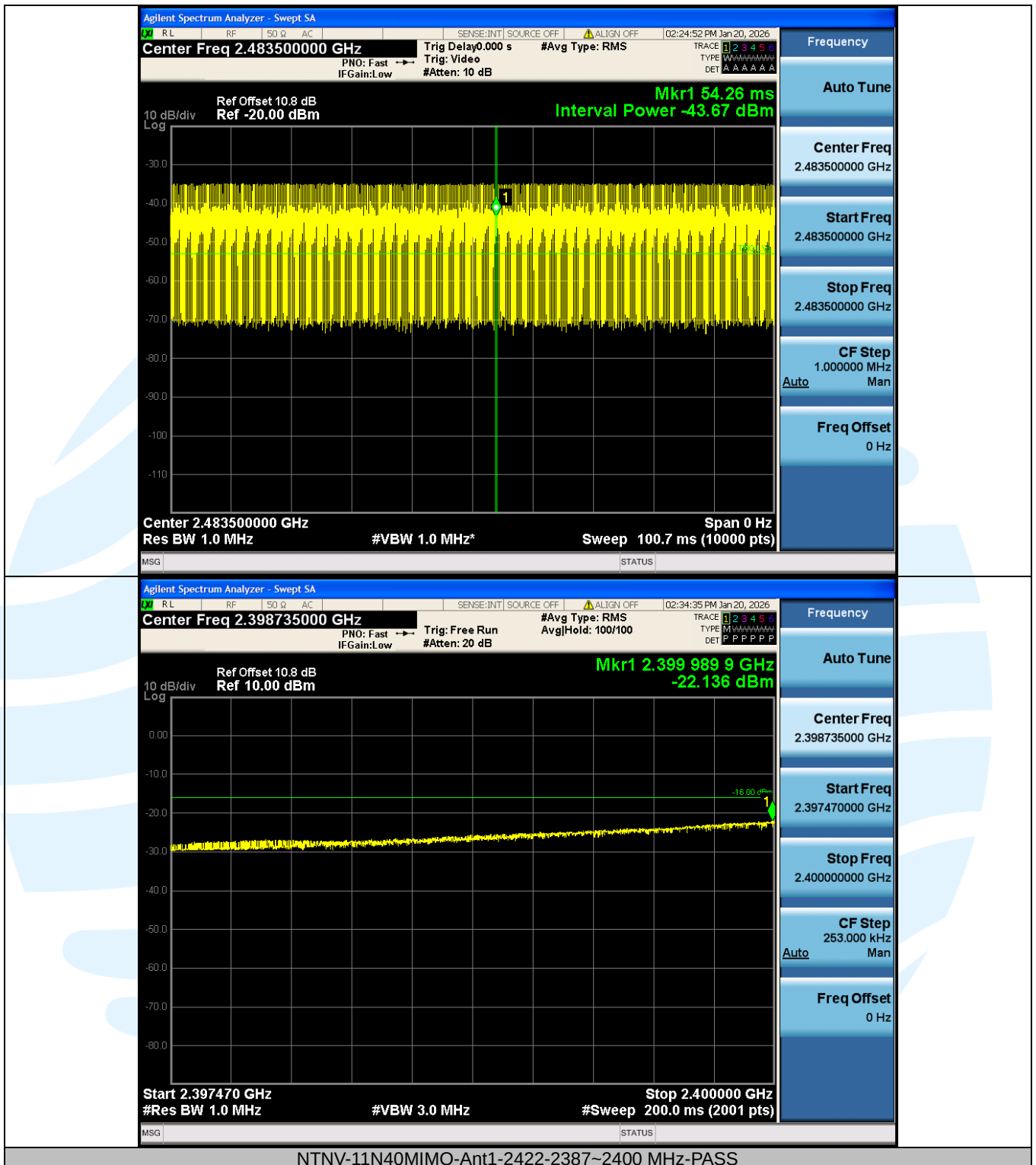
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NTNV-11N40MIMO-Ant1-2422-2387~2400 MHz-PASS

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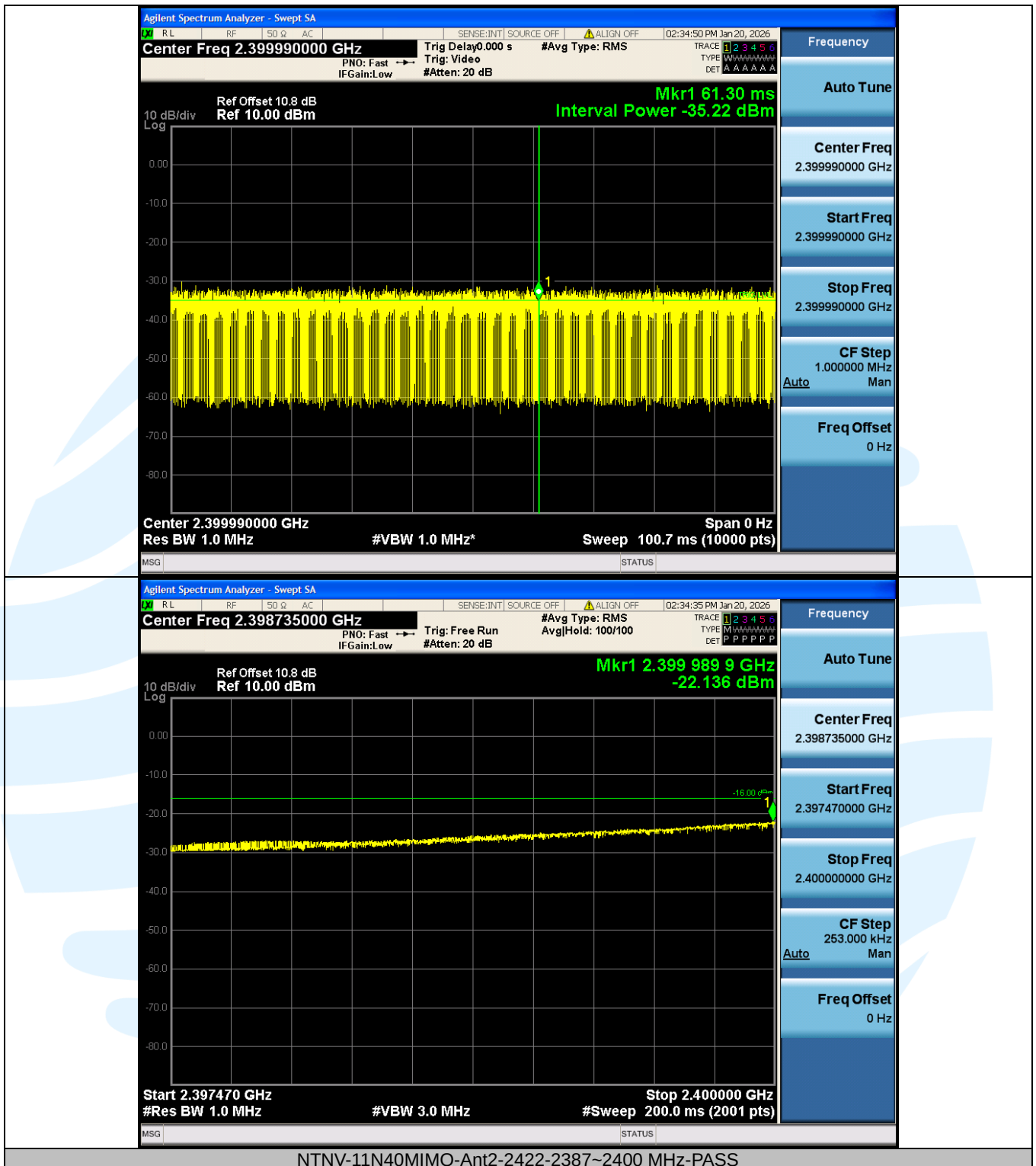
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NTNV-11N40MIMO-Ant2-2422-2387~2400 MHz-PASS

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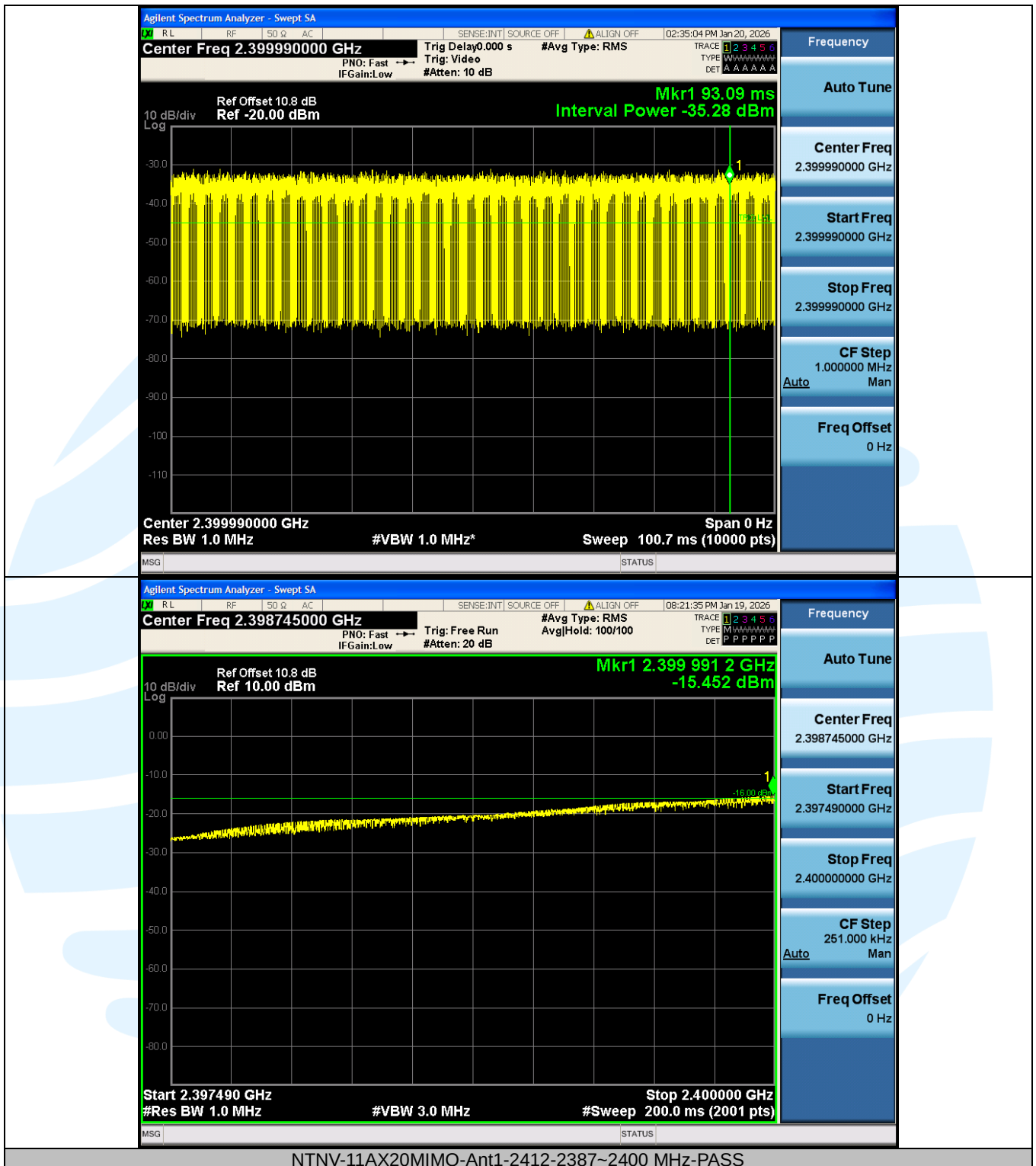
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NTNV-11AX20MIMO-Ant1-2412-2387~2400 MHz-PASS

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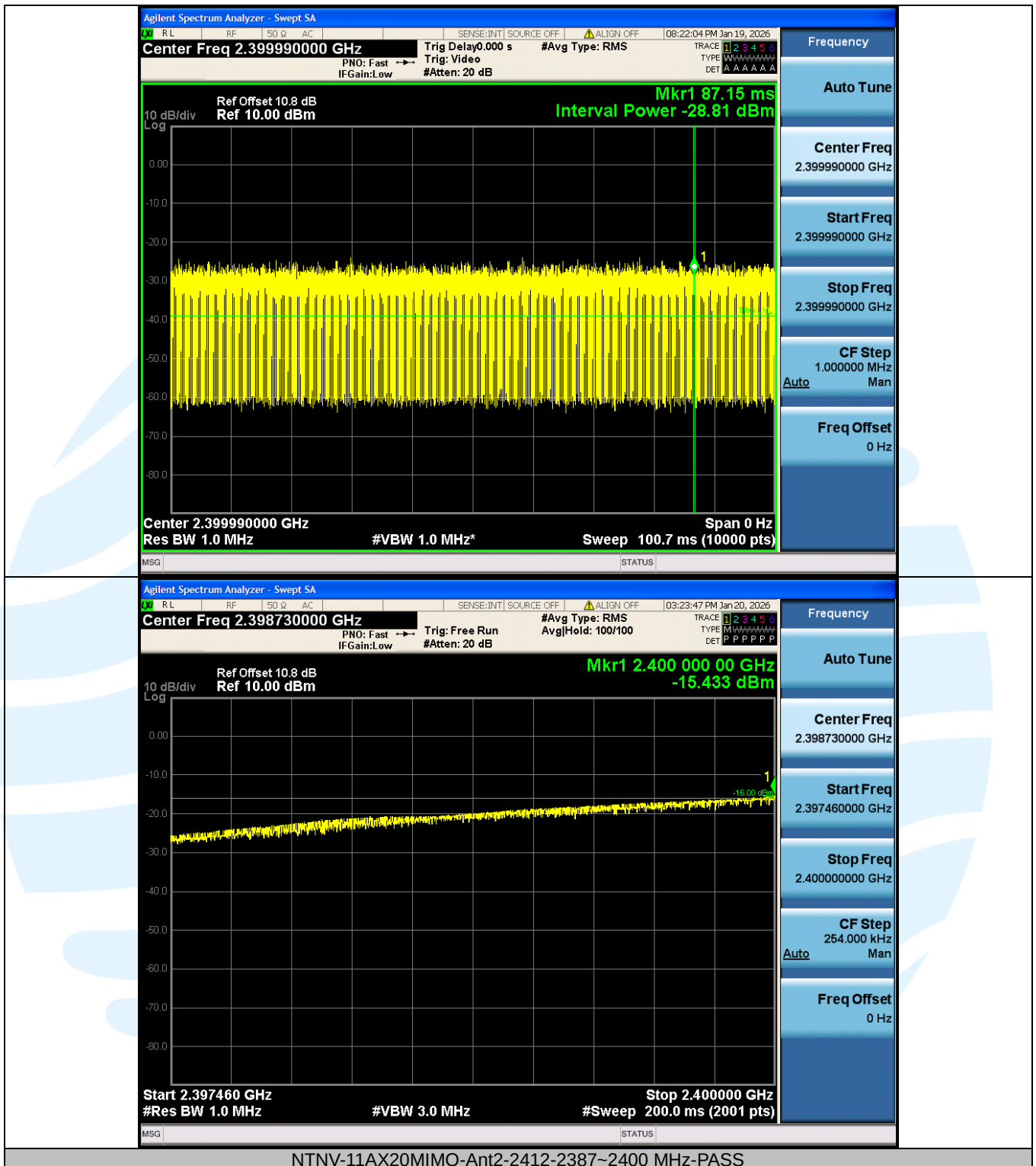
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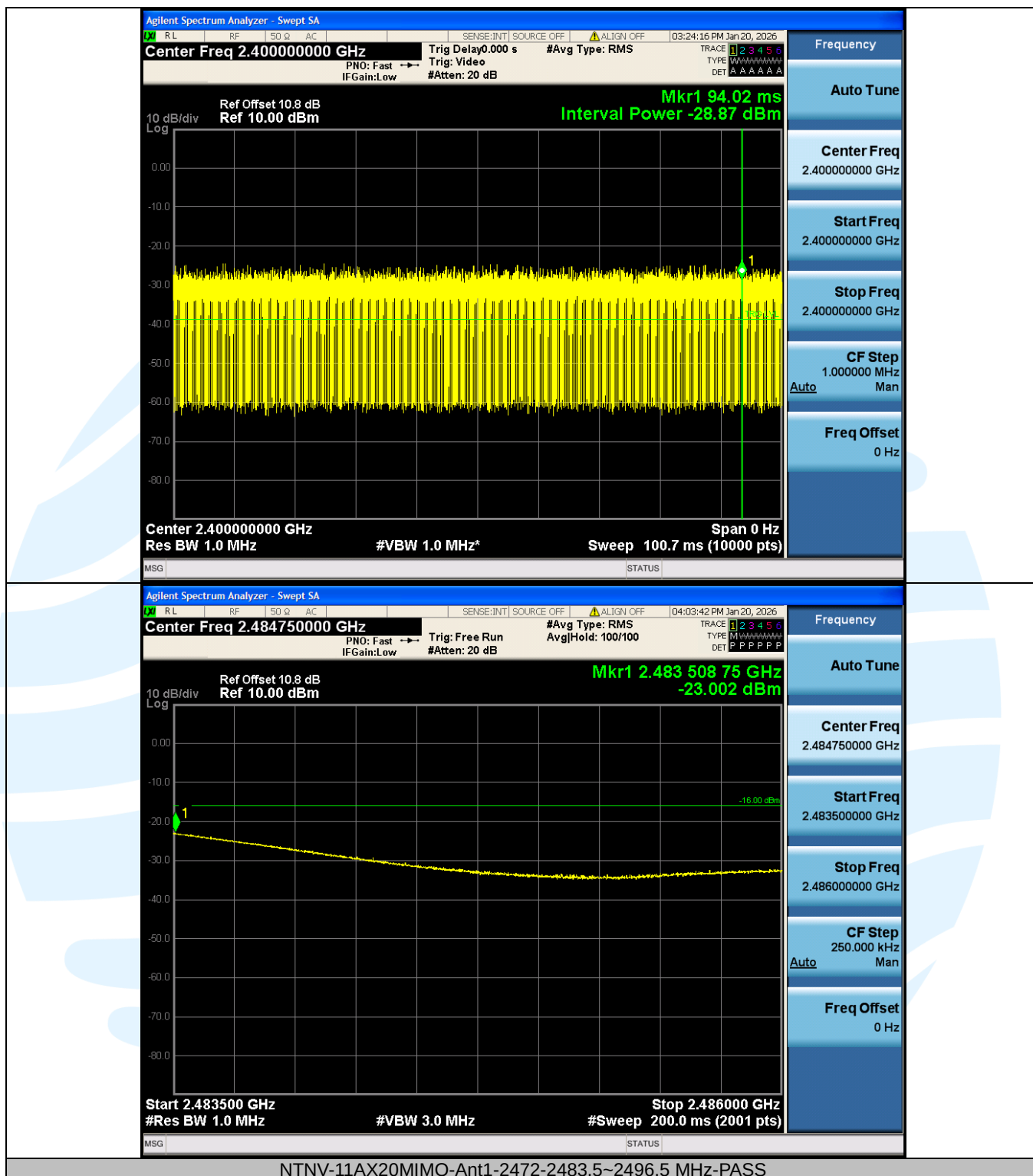
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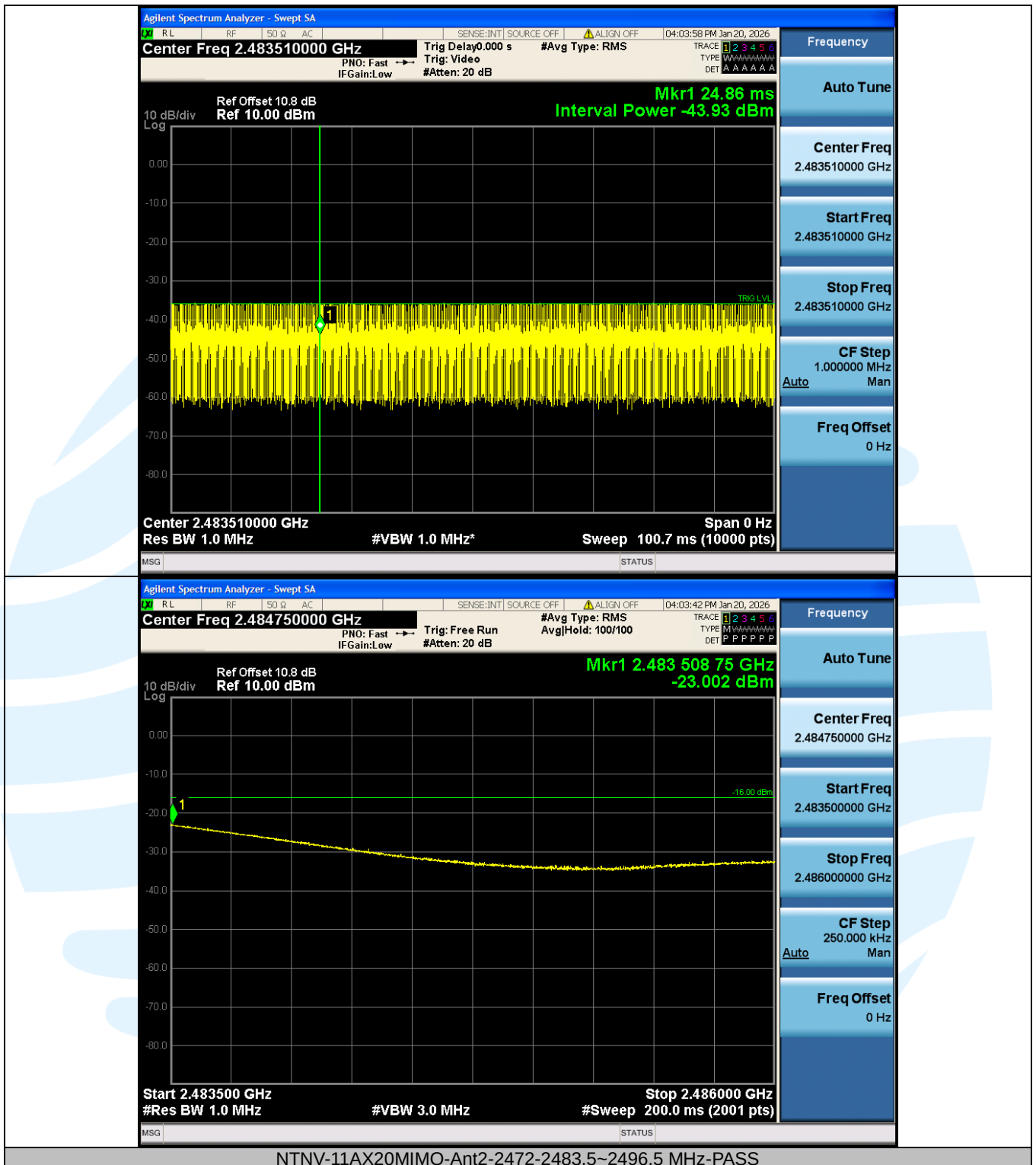
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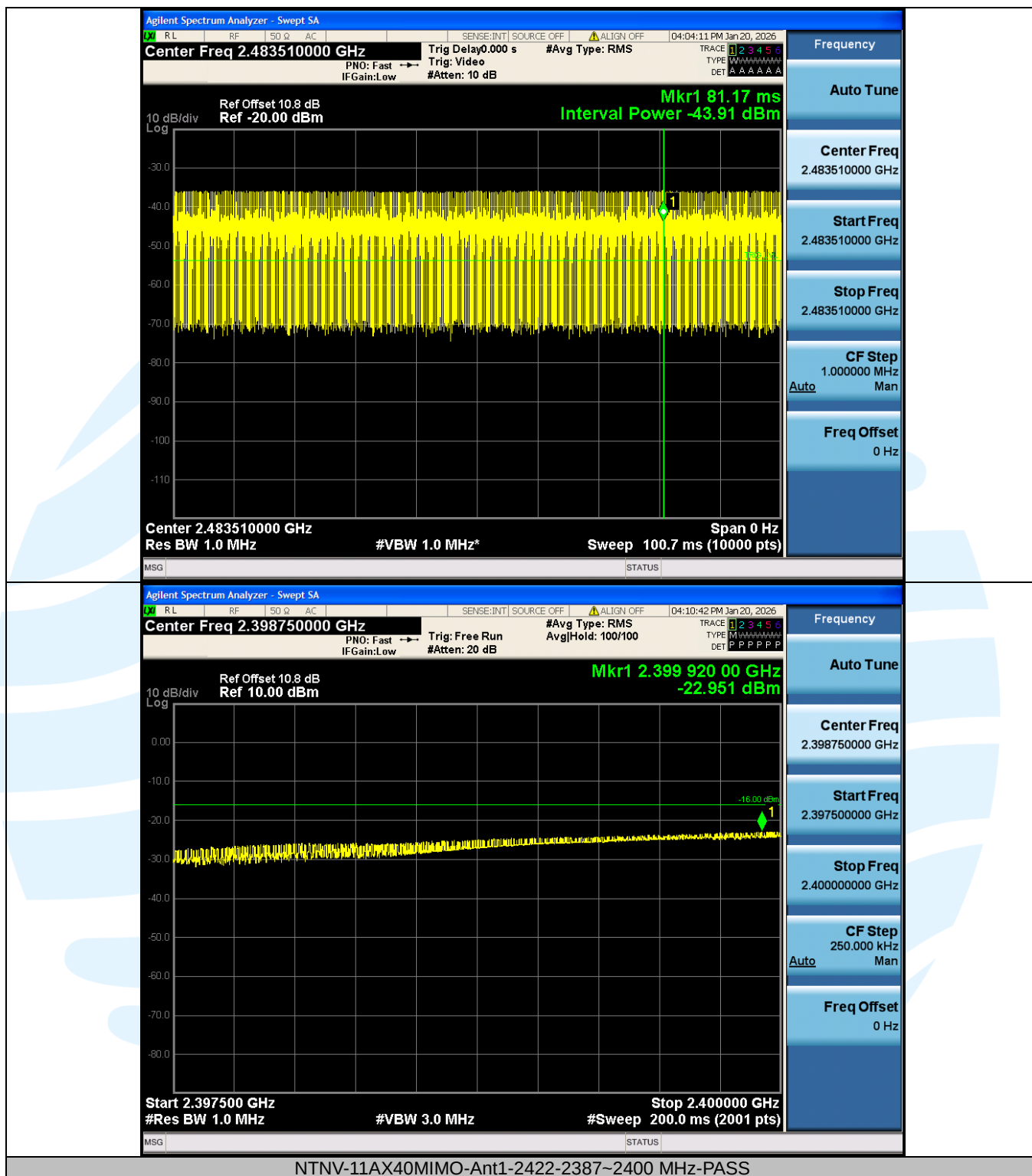
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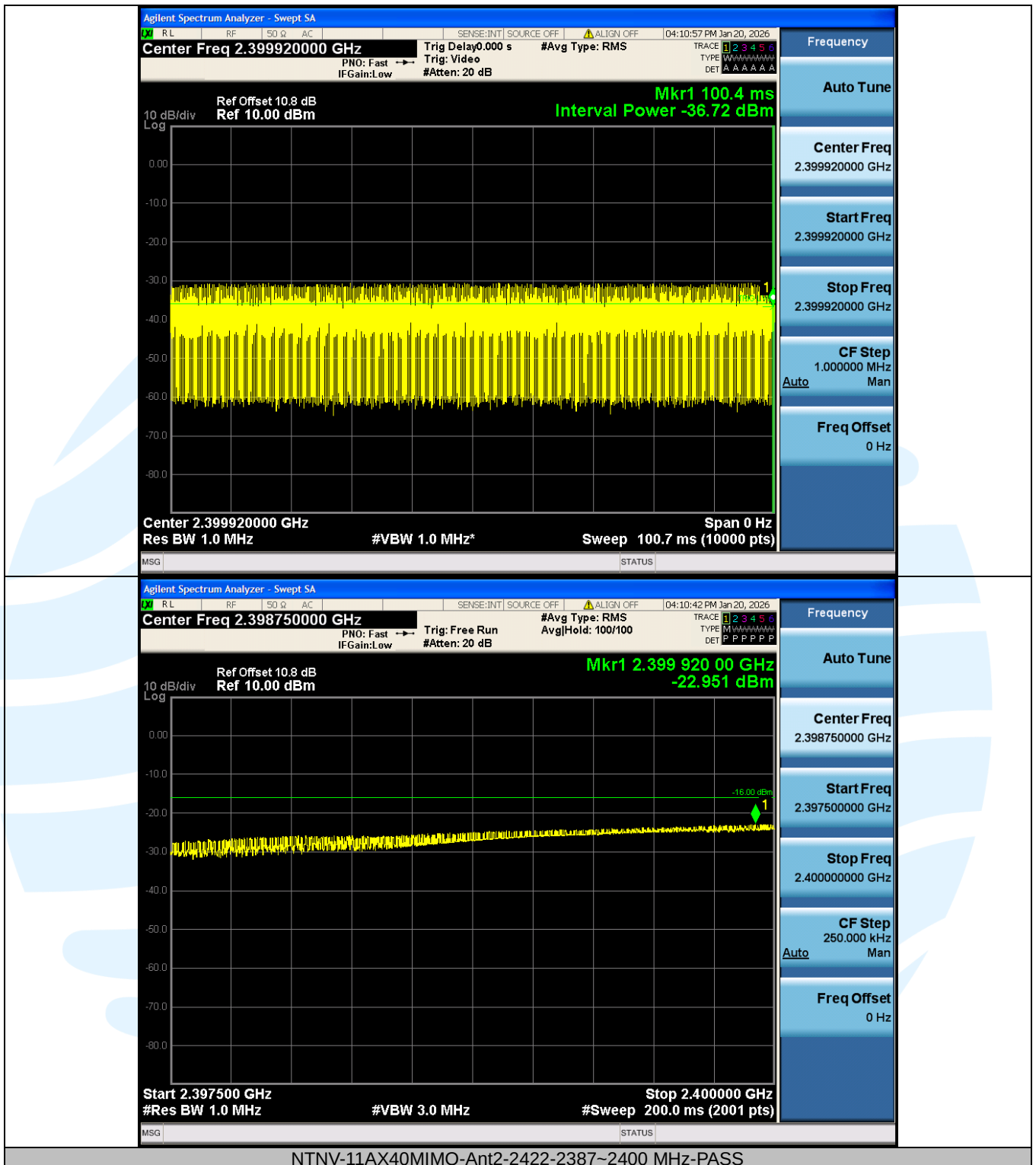
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NTNV-11AX40MIMO-Ant2-2422-2387~2400 MHz-PASS

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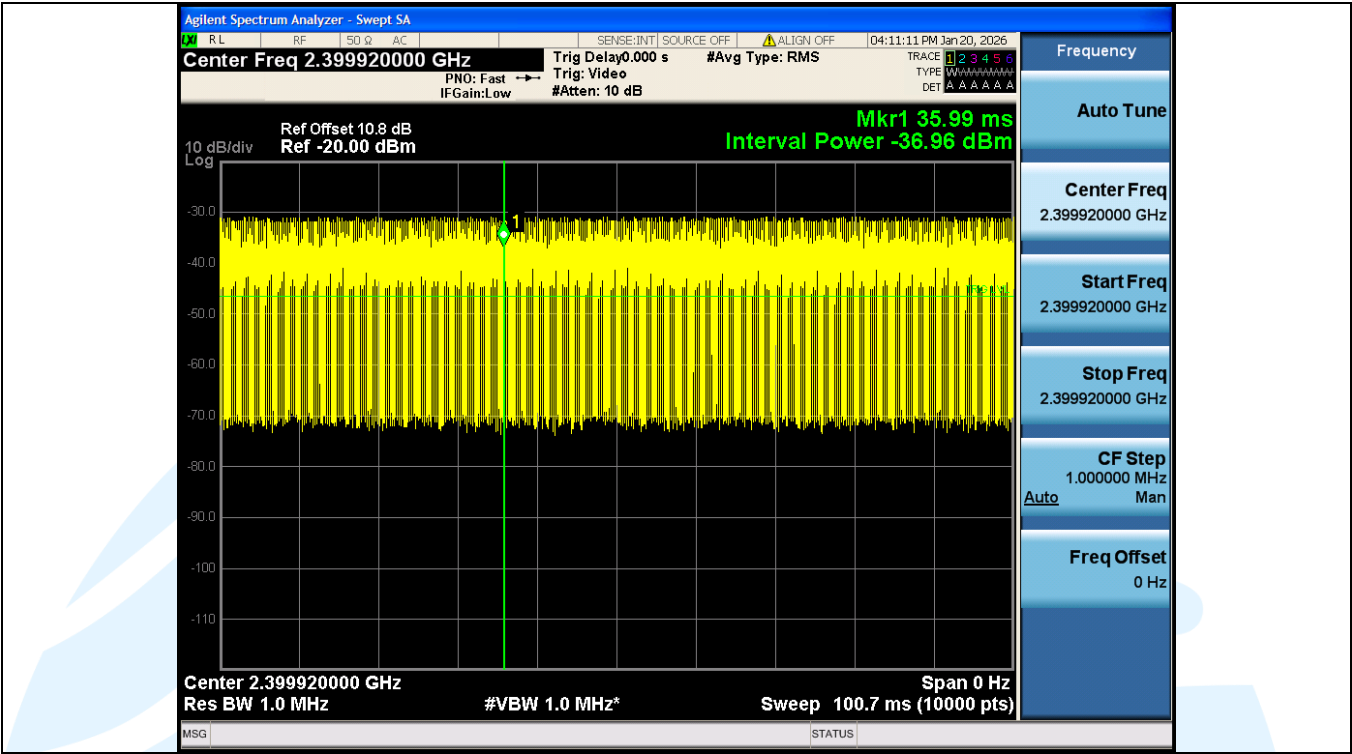
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5.7 ANTENNA POWER

5.7.1 Limit

Occupied Bandwidth	Antenna power	EIRP (max)	
		Omni-directional case	Directional case
For BW = 20MHz	10mW/MHz	12.14 dBm/MHz 16.367 mW/MHz	22.14 dBm/MHz 163.682 mW/MHz
For BW = 40MHz	5 mW/MHz	9.13dBm/MHz (8.185mW/MHz)	19.13dBm/MHz (81.846mW/MHz)

Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

According article 49.20 f(2) The angular width of the principal radiation in the horizontal and vertical planes of the transmitting antenna shall not exceed the value obtained by the following expression. $360/A$ degree A represents the value determined by dividing an equivalent isotropically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dB, and shall be 1 when it is lower than 1

5.7.2 Test Setup

Refer to section 4.5 for details.

5.7.3 Instruments Used

Refer to section 3 for details

5.7.4 Test Procedures

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument's range. The frequency found shall be recorded.
5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Remove the EUT and put the replacing standard signal generator (SSG). Set the standard signal generator (SSG) at same frequency and transmit on, then set SSG output power at P_t to give the equivalent output level of "E".
7. Calculate antenna power density by the formula below $PD = P_t + 10 \cdot \log(1/x)$.
x: The duty cycle of the EUT in continuously transmitting mode
 P_t : Output power of the SSG
8. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

5.7.5 Test Result

Conducted antenna power_VN

Conducted antenna power_VN									
Test Voltage	Mode	Channel / Freq. (MHz)	Antenna power density (mW/MHz)			Tolerance (%)			Rated power (mW/MHz)
			Ant. 1	Ant. 2	Total	Ant. 1	Ant. 2	Total	
VN	IEEE 802.11b	1/ 2412	2.8349	2.6152	/	-5.50	-12.83	/	3.0
		7/ 2442	2.8739	2.5644	/	-4.20	-14.52	/	(-80%~+20%)
		13/ 2472	2.7586	2.4934	/	-8.05	-16.89	/	
	IEEE 802.11g	1/ 2412	2.1828	1.9109	/	9.14	-4.46	/	2.0
		7/ 2442	2.1527	1.8831	/	7.63	-5.85	/	(-80%~+20%)
		13/ 2472	1.3272	1.1792	/	-33.64	-41.04	/	
	IEEE 802.11n-HT20	1/ 2412	0.7784	0.6663	1.4447	/	/	-3.69	1.5
		7/ 2442	0.7710	0.6631	1.4341	/	/	-4.39	(-80%~+20%)
		13/ 2472	0.7171	0.6478	1.3649	/	/	-9.01	
	IEEE 802.11n-HT40	3/ 2422	0.3246	0.2956	0.6202	/	/	-17.31	0.75
		7/ 2442	0.3180	0.2950	0.6130	/	/	-18.27	(-80%~+20%)
		11/ 2462	0.3152	0.2897	0.6049	/	/	-19.35	
	IEEE 802.11ax-HE20	1/ 2412	0.6506	0.5514	1.2020	/	/	-3.84	1.25
		7/ 2442	0.6454	0.5444	1.1898	/	/	-4.81	(-80%~+20%)
		13/ 2472	0.5879	0.5162	1.1040	/	/	-11.68	
	IEEE 802.11ax-HE40	3/ 2422	0.2540	0.2208	0.4749	/	/	-5.03	0.5
		7/ 2442	0.2502	0.2201	0.4703	/	/	-5.94	(-80%~+20%)
		11/ 2462	0.2402	0.2169	0.4570	/	/	-8.59	
Conclusion: PASS									

Radiated antenna power (EIRP)

Mode	Channel / Freq. (MHz)	Radiated RF output power density (mW/MHz)			Radiated RF output power density (dBm/MHz)			Limit (dBm/MHz)
		Ant. 1	Ant. 2	Total	Ant. 1	Ant. 2	Total	
IEEE 802.11b	1/ 2412	6.8004	6.2734	/	8.3253	7.9750	/	12.14
	7/ 2442	6.8940	6.1516	/	8.3847	7.8899	/	
	13/ 2472	6.6175	5.9813	/	8.2070	7.7679	/	
IEEE 802.11g	1/ 2412	5.2362	4.5838	/	7.1902	6.6123	/	12.14
	7/ 2442	5.1639	4.5171	/	7.1298	6.5486	/	
	13/ 2472	3.1838	2.8286	/	5.0294	4.5158	/	
IEEE 802.11n-HT20	1/ 2412	/	/	3.4655	/	/	5.3977	12.14
	7/ 2442	/	/	3.4403	/	/	5.3659	
	13/ 2472	/	/	3.2741	/	/	5.1509	
IEEE 802.11n-HT40	3/ 2422	/	/	1.4878	/	/	1.7254	9.13
	7/ 2442	/	/	1.4705	/	/	1.6746	
	11/ 2462	/	/	1.4510	/	/	1.6166	
IEEE 802.11ax-HE20	1/ 2412	/	/	2.8834	/	/	4.5990	12.14
	7/ 2442	/	/	2.8542	/	/	4.5548	
	13/ 2472	/	/	2.6484	/	/	4.2298	
IEEE 802.11ax-HE40	3/ 2422	/	/	1.1391	/	/	0.5656	9.13
	7/ 2442	/	/	1.1282	/	/	0.5238	
	11/ 2462	/	/	1.0964	/	/	0.3996	

5.8 SPURIOUS EMISSIONS OF RECEIVER

5.8.1 Limit

Frequency (MHz)	Limit	
	nW	dBm
Below 1GHz	≤4	-54
Above 1GHz	≤20	-47

5.8.2 Test Setup

Refer to section 4.5 for details.

5.8.3 Instruments Used

Refer to section 3 for details

5.8.4 Test Procedures

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- c) Below 1GHz
 1. Set RBW = VBW = 100 kHz.
 2. Detector = peak.
 3. Sweep = auto couple.
 4. Trace Mode = max hold.
 5. Allow trace to fully stabilize.
 6. Use the peak marker function to determine the maximum amplitude level.
- d) Above 1GHz
 1. Set RBW = VBW = 1 MHz.
 2. Detector = peak.
 3. Sweep = auto couple.
 4. Trace Mode = max hold.
 5. Allow trace to fully stabilize.
 6. Use the peak marker function to determine the maximum amplitude level.

5.8.5 Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	845.29	-80.37	≤-54	0.00918	≤4	PASS
NTNV	11B	Ant2	2412	30~1000	897.18	-80.42	≤-54	0.00908	≤4	PASS
NTNV	11B	Ant1	2412	1000~12500	6305.53	-66.83	≤-47	0.20749	≤20	PASS
NTNV	11B	Ant2	2412	1000~12500	12063.58	-66.17	≤-47	0.24155	≤20	PASS
NTNV	11B	Ant1	2442	30~1000	957.81	-80.58	≤-54	0.00875	≤4	PASS
NTNV	11B	Ant2	2442	30~1000	908.34	-80.55	≤-54	0.00881	≤4	PASS
NTNV	11B	Ant1	2442	1000~12500	12021.03	-66.92	≤-47	0.20324	≤20	PASS
NTNV	11B	Ant2	2442	1000~12500	11959.50	-67.37	≤-47	0.18323	≤20	PASS
NTNV	11B	Ant1	2472	30~1000	900.58	-80.83	≤-54	0.00826	≤4	PASS
NTNV	11B	Ant2	2472	30~1000	773.02	-80.52	≤-54	0.00887	≤4	PASS
NTNV	11B	Ant1	2472	1000~12500	5408.53	-67.06	≤-47	0.19679	≤20	PASS
NTNV	11B	Ant2	2472	1000~12500	3252.85	-66.99	≤-47	0.19999	≤20	PASS
NTNV	11G	Ant1	2412	30~1000	416.55	-80.27	≤-54	0.00940	≤4	PASS
NTNV	11G	Ant2	2412	30~1000	815.70	-80.16	≤-54	0.00964	≤4	PASS
NTNV	11G	Ant1	2412	1000~12500	12439.63	-66.84	≤-47	0.20701	≤20	PASS
NTNV	11G	Ant2	2412	1000~12500	6250.90	-67.38	≤-47	0.18281	≤20	PASS
NTNV	11G	Ant1	2442	30~1000	920.46	-79.26	≤-54	0.01186	≤4	PASS
NTNV	11G	Ant2	2442	30~1000	999.52	-80.59	≤-54	0.00873	≤4	PASS
NTNV	11G	Ant1	2442	1000~12500	12152.13	-66.72	≤-47	0.21281	≤20	PASS
NTNV	11G	Ant2	2442	1000~12500	11995.15	-66.50	≤-47	0.22387	≤20	PASS
NTNV	11G	Ant1	2472	30~1000	869.05	-80.55	≤-54	0.00881	≤4	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11G	Ant2	2472	30~1000	939.38	-79.96	≤-54	0.01009	≤4	PASS
NTNV	11G	Ant1	2472	1000~12500	11942.25	-66.95	≤-47	0.20184	≤20	PASS
NTNV	11G	Ant2	2472	1000~12500	12473.55	-66.68	≤-47	0.21478	≤20	PASS
NTNV	11N20MIMO	Ant1	2412	30~1000	783.69	-80.65	≤-54	0.00861	≤4	PASS
NTNV	11N20MIMO	Ant2	2412	30~1000	785.15	-80.16	≤-54	0.00964	≤4	PASS
NTNV	11N20MIMO	Total	2412	30~1000	785.15	--	--	0.01825	≤4	PASS
NTNV	11N20MIMO	Ant1	2412	1000~12500	12076.23	-67.22	≤-47	0.18967	≤20	PASS
NTNV	11N20MIMO	Ant2	2412	1000~12500	12444.23	-66.96	≤-47	0.20137	≤20	PASS
NTNV	11N20MIMO	Total	2412	1000~12500	12444.23	--	--	0.39104	≤20	PASS
NTNV	11N20MIMO	Ant1	2442	30~1000	733.25	-80.49	≤-54	0.00893	≤4	PASS
NTNV	11N20MIMO	Ant2	2442	30~1000	428.67	-81.15	≤-54	0.00767	≤4	PASS
NTNV	11N20MIMO	Total	2442	30~1000	428.67	--	--	0.01660	≤4	PASS
NTNV	11N20MIMO	Ant1	2442	1000~12500	12457.45	-66.64	≤-47	0.21677	≤20	PASS
NTNV	11N20MIMO	Ant2	2442	1000~12500	12424.68	-66.41	≤-47	0.22856	≤20	PASS
NTNV	11N20MIMO	Total	2442	1000~12500	12424.68	--	--	0.44533	≤20	PASS
NTNV	11N20MIMO	Ant1	2472	30~1000	693.00	-80.28	≤-54	0.00938	≤4	PASS
NTNV	11N20MIMO	Ant2	2472	30~1000	781.75	-80.28	≤-54	0.00938	≤4	PASS
NTNV	11N20MIMO	Total	2472	30~1000	781.75	--	--	0.01876	≤4	PASS
NTNV	11N20MIMO	Ant1	2472	1000~12500	5819.08	-67.07	≤-47	0.19634	≤20	PASS
NTNV	11N20MIMO	Ant2	2472	1000~12500	12436.75	-66.85	≤-47	0.20654	≤20	PASS
NTNV	11N20MIMO	Total	2472	1000~12500	12436.75	--	--	0.40288	≤20	PASS
NTNV	11N40MIMO	Ant1	2422	30~1000	903.97	-80.54	≤-54	0.00883	≤4	PASS
NTNV	11N40MIMO	Ant2	2422	30~1000	934.04	-80.69	≤-54	0.00853	≤4	PASS
NTNV	11N40MIMO	Total	2422	30~1000	934.04	--	--	0.01736	≤4	PASS
NTNV	11N40MIMO	Ant1	2422	1000~12500	12151.55	-67.35	≤-47	0.18408	≤20	PASS
NTNV	11N40MIMO	Ant2	2422	1000~12500	12485.63	-66.67	≤-47	0.21528	≤20	PASS
NTNV	11N40MIMO	Total	2422	1000~12500	12485.63	--	--	0.39936	≤20	PASS
NTNV	11N40MIMO	Ant1	2442	30~1000	817.64	-80.68	≤-54	0.00855	≤4	PASS
NTNV	11N40MIMO	Ant2	2442	30~1000	780.30	-80.16	≤-54	0.00964	≤4	PASS
NTNV	11N40MIMO	Total	2442	30~1000	780.30	--	--	0.01819	≤4	PASS
NTNV	11N40MIMO	Ant1	2442	1000~12500	5769.05	-66.94	≤-47	0.20230	≤20	PASS
NTNV	11N40MIMO	Ant2	2442	1000~12500	3151.08	-66.88	≤-47	0.20512	≤20	PASS
NTNV	11N40MIMO	Total	2442	1000~12500	3151.08	--	--	0.40742	≤20	PASS
NTNV	11N40MIMO	Ant1	2462	30~1000	922.89	-80.08	≤-54	0.00982	≤4	PASS
NTNV	11N40MIMO	Ant2	2462	30~1000	893.79	-80.05	≤-54	0.00989	≤4	PASS
NTNV	11N40MIMO	Total	2462	30~1000	893.79	--	--	0.01971	≤4	PASS
NTNV	11N40MIMO	Ant1	2462	1000~12500	3114.28	-66.46	≤-47	0.22594	≤20	PASS
NTNV	11N40MIMO	Ant2	2462	1000~12500	11975.60	-67.01	≤-47	0.19907	≤20	PASS
NTNV	11N40MIMO	Total	2462	1000~12500	11975.60	--	--	0.42501	≤20	PASS
NTNV	11AX20MIMO	Ant1	2412	30~1000	627.04	-80.72	≤-54	0.00847	≤4	PASS
NTNV	11AX20MIMO	Ant2	2412	30~1000	870.99	-80.34	≤-54	0.00925	≤4	PASS
NTNV	11AX20MIMO	Total	2412	30~1000	870.99	--	--	0.01772	≤4	PASS
NTNV	11AX20MIMO	Ant1	2412	1000~12500	12021.60	-66.82	≤-47	0.20797	≤20	PASS
NTNV	11AX20MIMO	Ant2	2412	1000~12500	12409.15	-66.85	≤-47	0.20654	≤20	PASS
NTNV	11AX20MIMO	Total	2412	1000~12500	12409.15	--	--	0.41451	≤20	PASS
NTNV	11AX20MIMO	Ant1	2442	30~1000	694.94	-80.43	≤-54	0.00906	≤4	PASS
NTNV	11AX20MIMO	Ant2	2442	30~1000	464.56	-80.11	≤-54	0.00975	≤4	PASS
NTNV	11AX20MIMO	Total	2442	30~1000	464.56	--	--	0.01881	≤4	PASS
NTNV	11AX20MIMO	Ant1	2442	1000~12500	2748.00	-67.05	≤-47	0.19724	≤20	PASS
NTNV	11AX20MIMO	Ant2	2442	1000~12500	12045.18	-66.92	≤-47	0.20324	≤20	PASS
NTNV	11AX20MIMO	Total	2442	1000~12500	12045.18	--	--	0.40048	≤20	PASS
NTNV	11AX20MIMO	Ant1	2472	30~1000	973.81	-80.65	≤-54	0.00861	≤4	PASS
NTNV	11AX20MIMO	Ant2	2472	30~1000	936.47	-79.89	≤-54	0.01026	≤4	PASS
NTNV	11AX20MIMO	Total	2472	30~1000	936.47	--	--	0.01887	≤4	PASS
NTNV	11AX20MIMO	Ant1	2472	1000~12500	12058.40	-66.09	≤-47	0.24604	≤20	PASS
NTNV	11AX20MIMO	Ant2	2472	1000~12500	12008.38	-67.33	≤-47	0.18493	≤20	PASS
NTNV	11AX20MIMO	Total	2472	1000~12500	12008.38	--	--	0.43097	≤20	PASS
NTNV	11AX40MIMO	Ant1	2422	30~1000	907.37	-79.31	≤-54	0.01172	≤4	PASS
NTNV	11AX40MIMO	Ant2	2422	30~1000	831.71	-80.36	≤-54	0.00920	≤4	PASS
NTNV	11AX40MIMO	Total	2422	30~1000	831.71	--	--	0.02092	≤4	PASS
NTNV	11AX40MIMO	Ant1	2422	1000~12500	2646.23	-67.11	≤-47	0.19454	≤20	PASS

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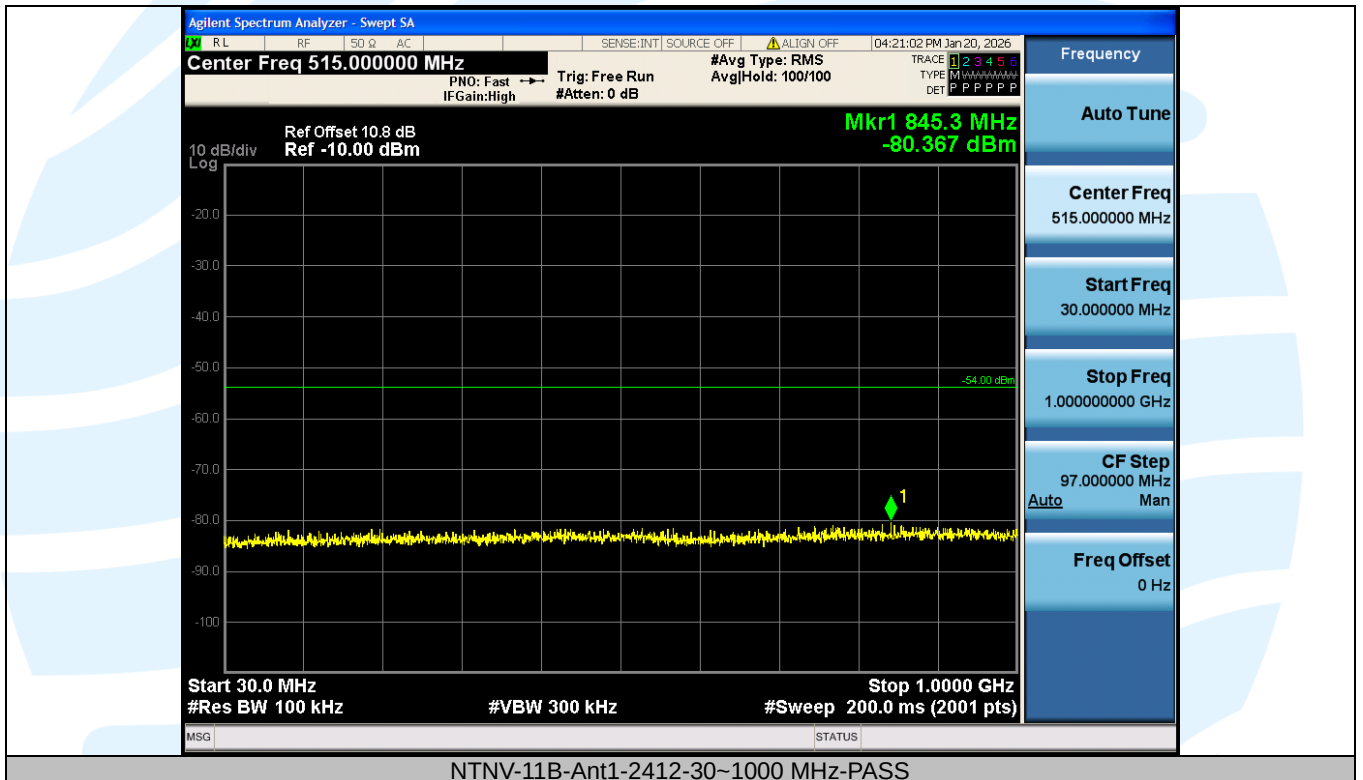
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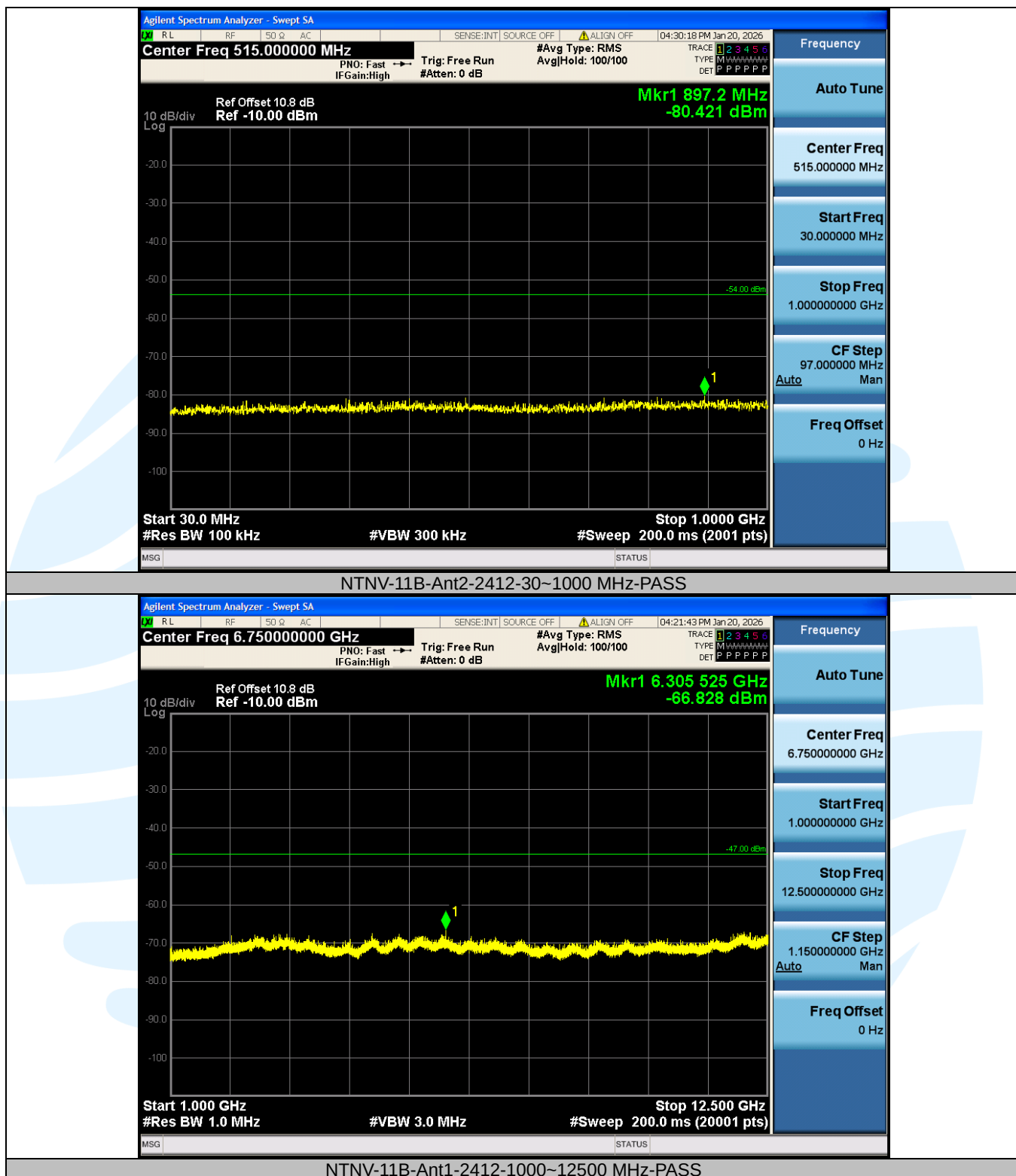
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Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11AX40MIMO	Ant2	2422	1000~12500	12483.33	-67.19	≤-47	0.19099	≤20	PASS
NTNV	11AX40MIMO	Total	2422	1000~12500	12483.33	--	--	0.38553	≤20	PASS
NTNV	11AX40MIMO	Ant1	2442	30~1000	922.89	-80.43	≤-54	0.00906	≤4	PASS
NTNV	11AX40MIMO	Ant2	2442	30~1000	871.48	-80.50	≤-54	0.00891	≤4	PASS
NTNV	11AX40MIMO	Total	2442	30~1000	871.48	--	--	0.01797	≤4	PASS
NTNV	11AX40MIMO	Ant1	2442	1000~12500	12113.60	-66.06	≤-47	0.24774	≤20	PASS
NTNV	11AX40MIMO	Ant2	2442	1000~12500	12437.33	-67.14	≤-47	0.19320	≤20	PASS
NTNV	11AX40MIMO	Total	2442	1000~12500	12437.33	--	--	0.44094	≤20	PASS
NTNV	11AX40MIMO	Ant1	2462	30~1000	949.08	-80.11	≤-54	0.00975	≤4	PASS
NTNV	11AX40MIMO	Ant2	2462	30~1000	951.99	-80.52	≤-54	0.00887	≤4	PASS
NTNV	11AX40MIMO	Total	2462	30~1000	951.99	--	--	0.01862	≤4	PASS
NTNV	11AX40MIMO	Ant1	2462	1000~12500	5831.73	-67.19	≤-47	0.19099	≤20	PASS
NTNV	11AX40MIMO	Ant2	2462	1000~12500	11981.93	-65.76	≤-47	0.26546	≤20	PASS
NTNV	11AX40MIMO	Total	2462	1000~12500	11981.93	--	--	0.45645	≤20	PASS





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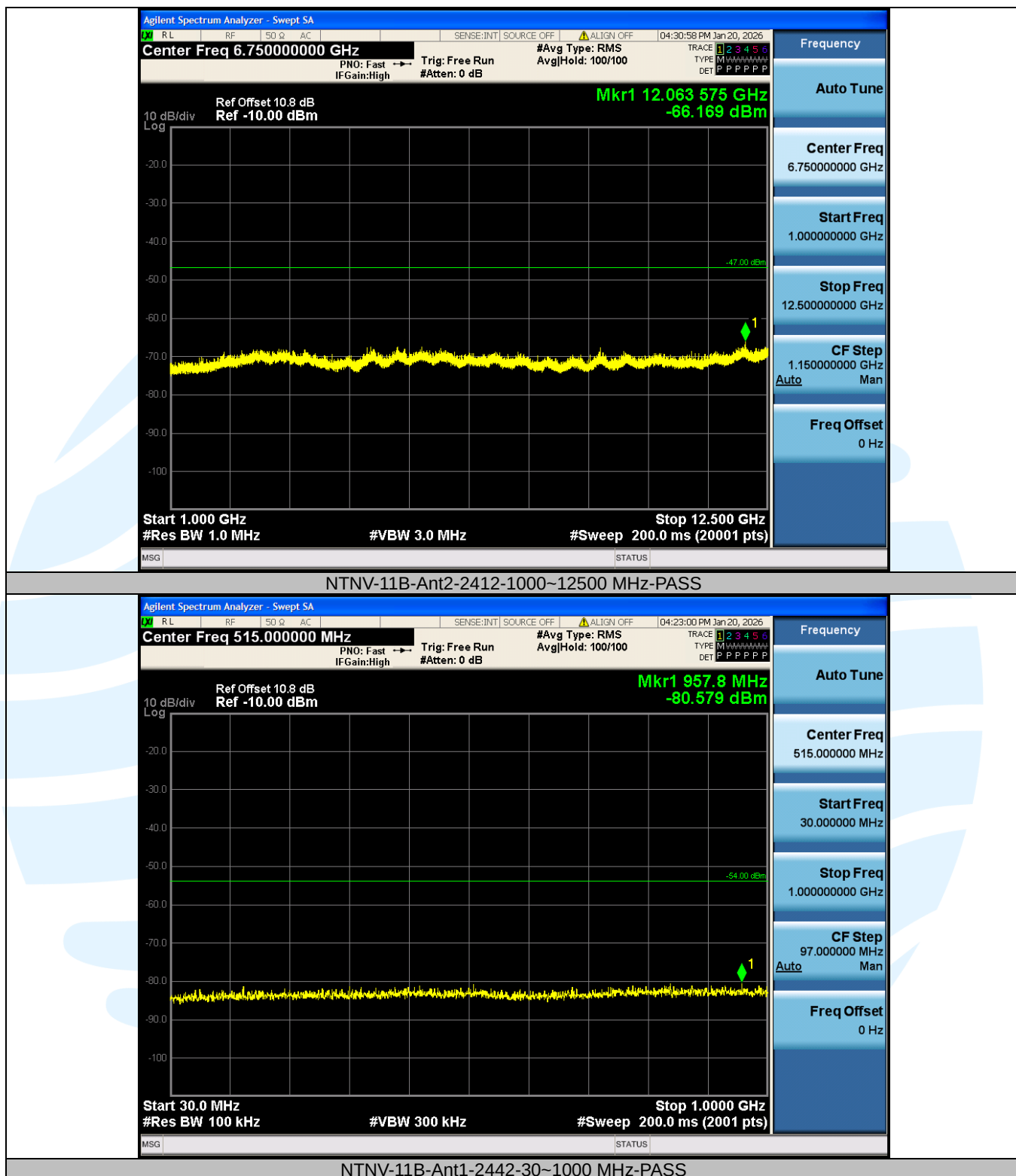
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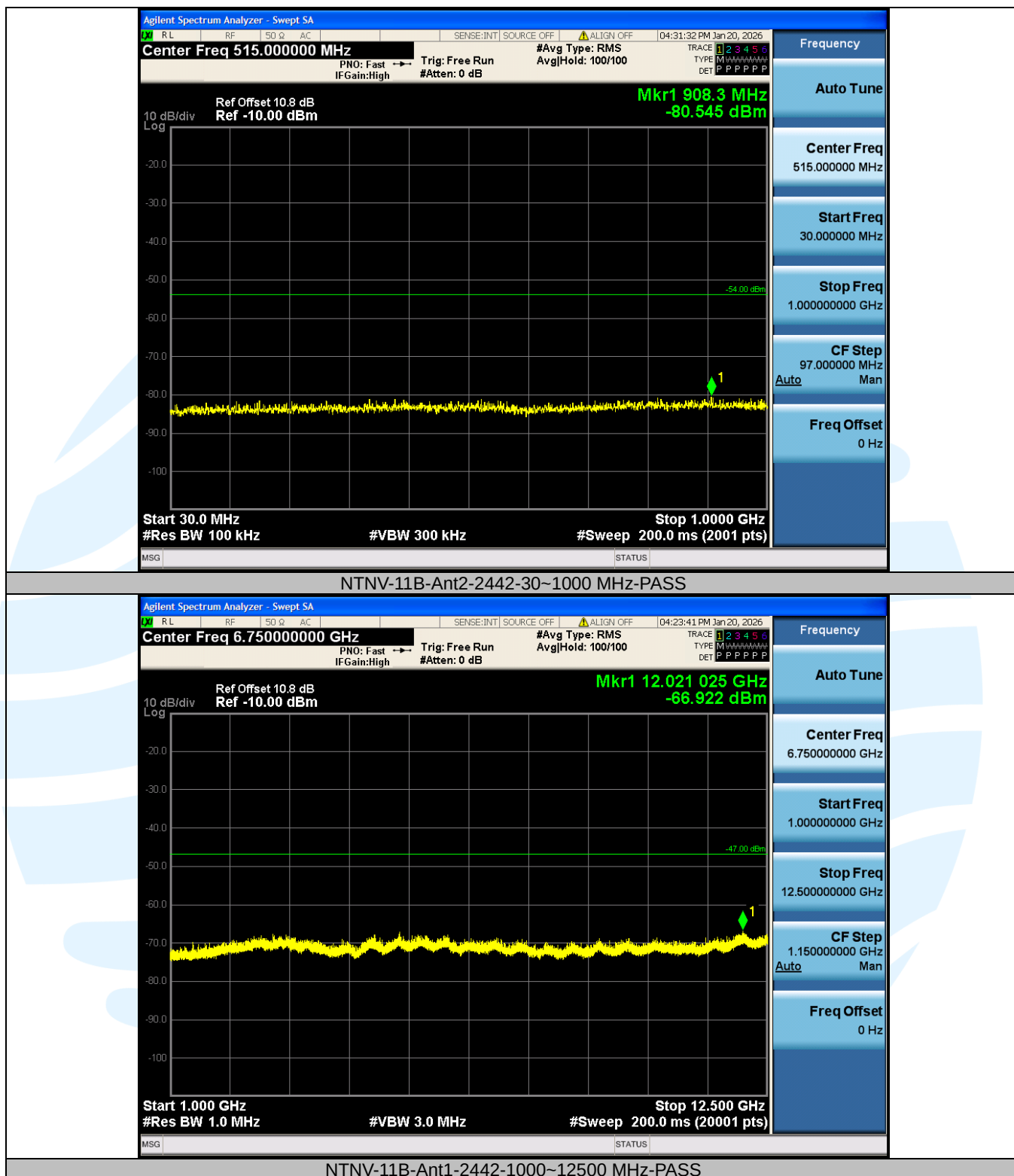
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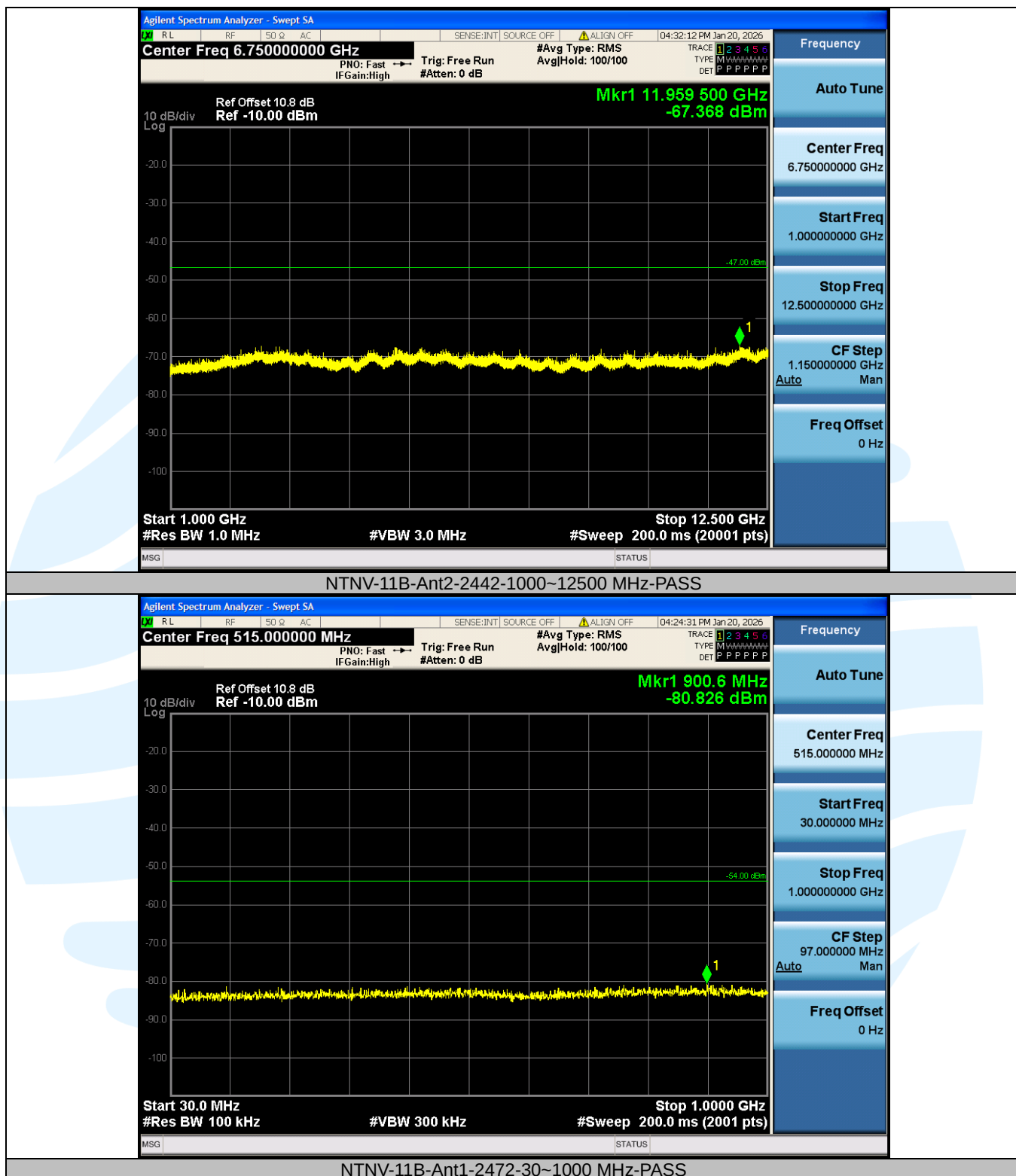
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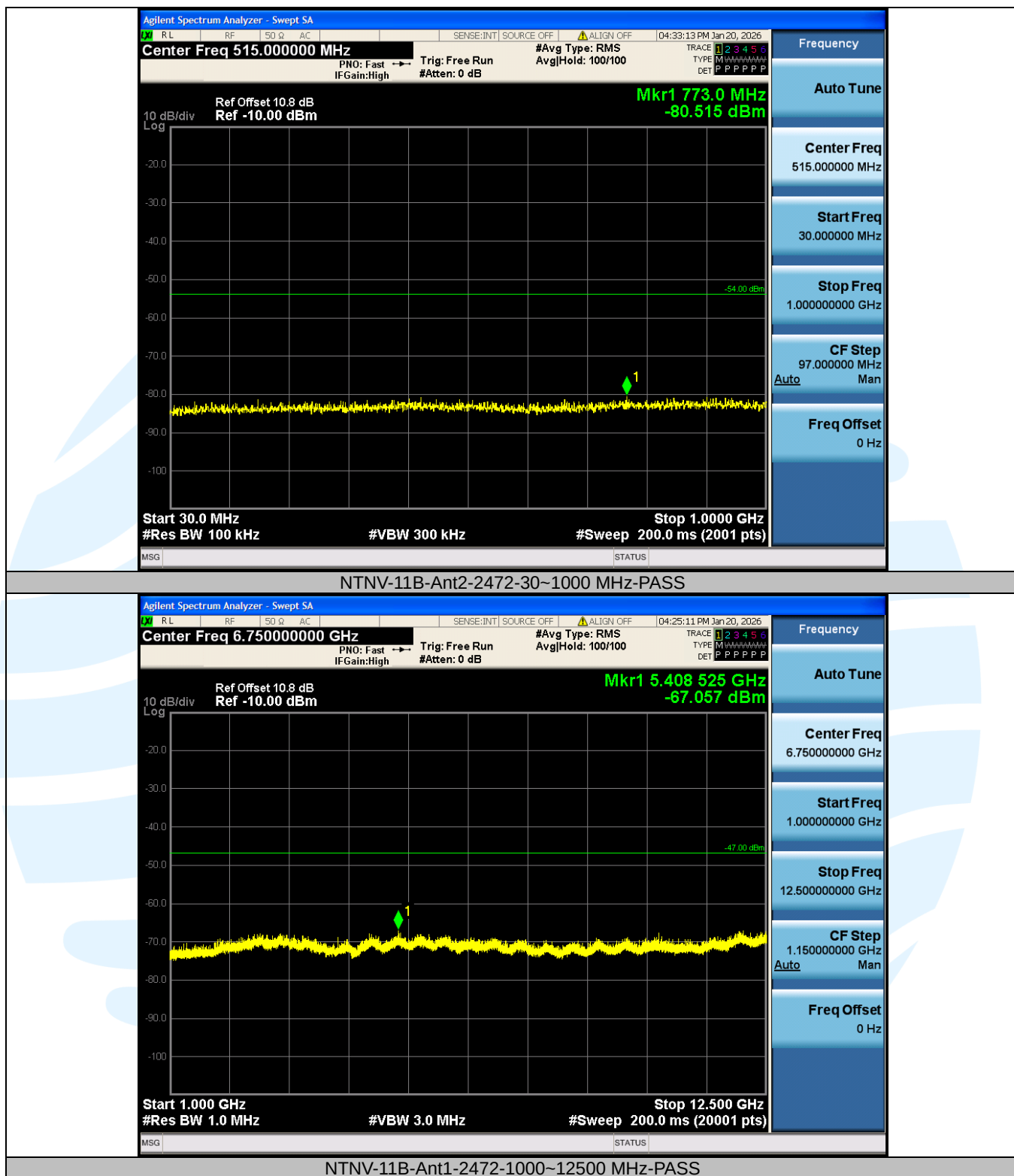
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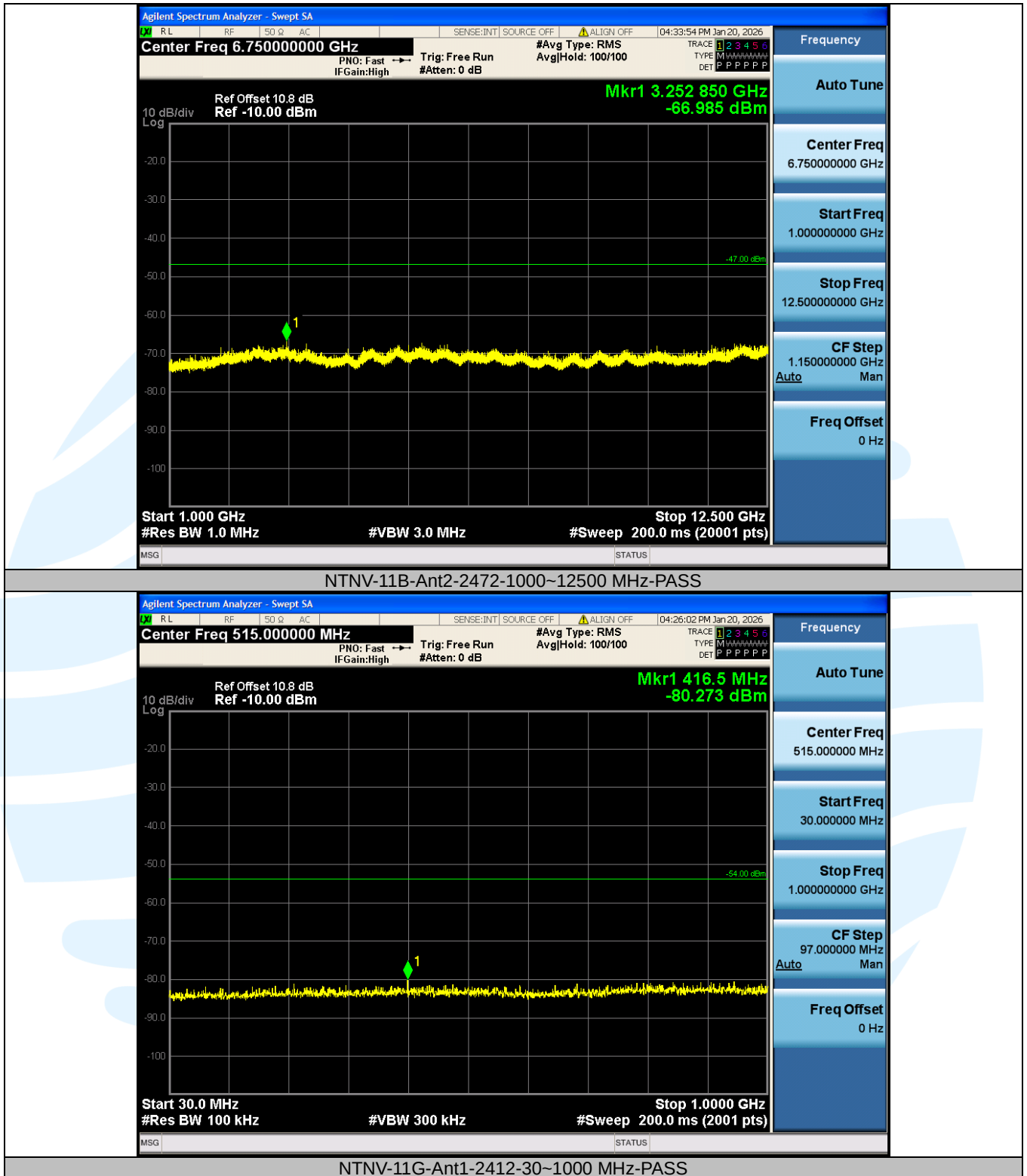
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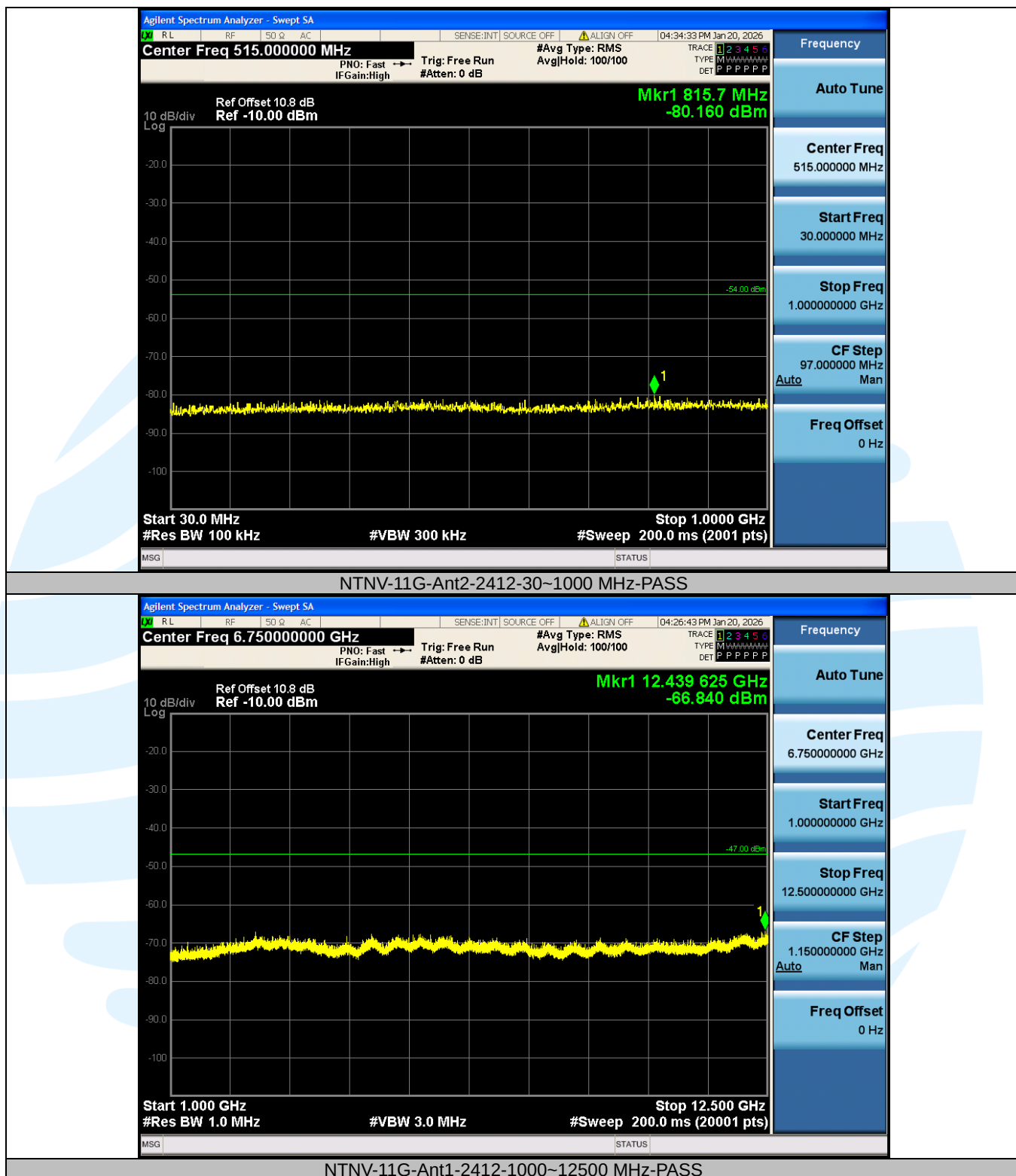
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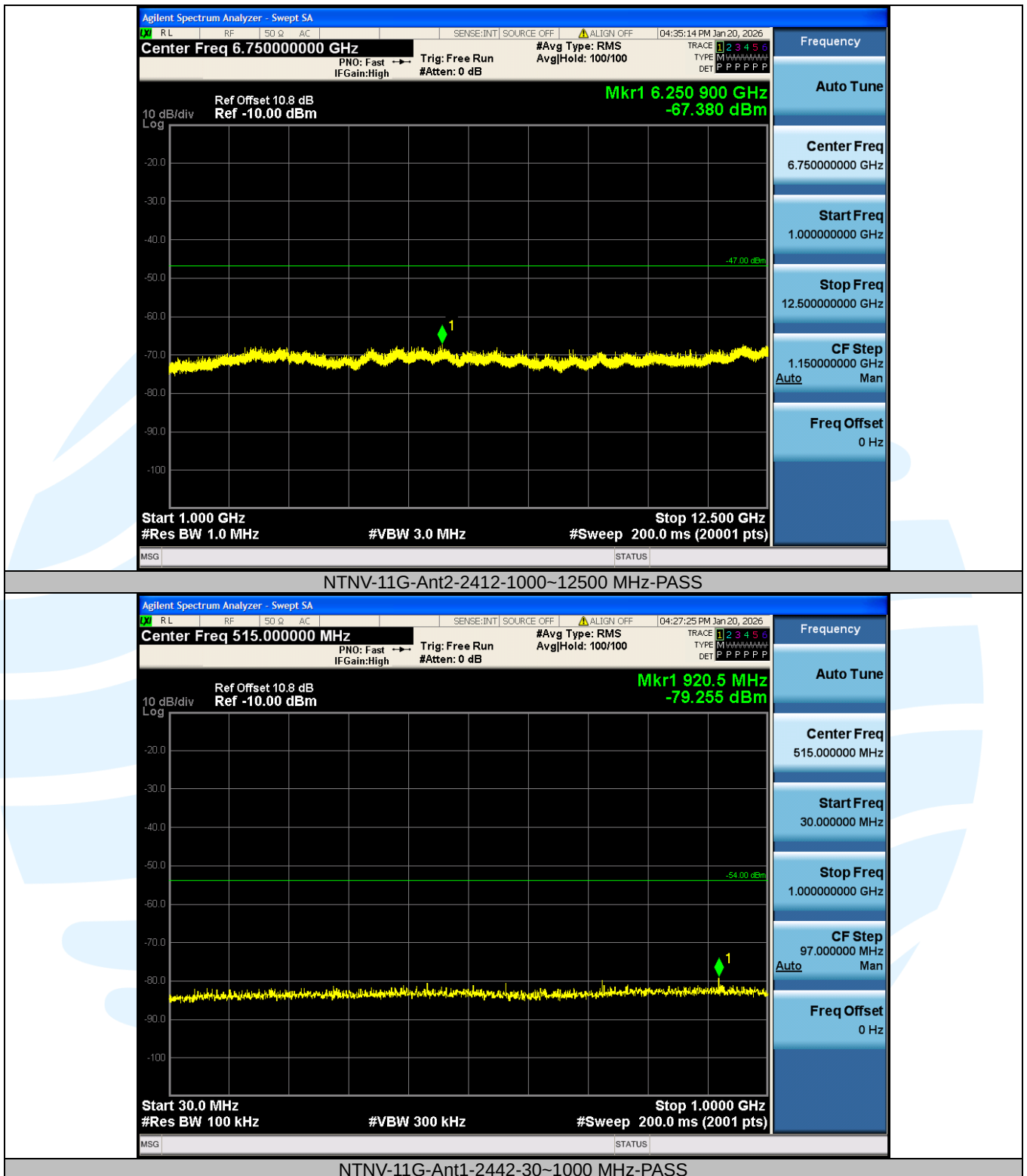
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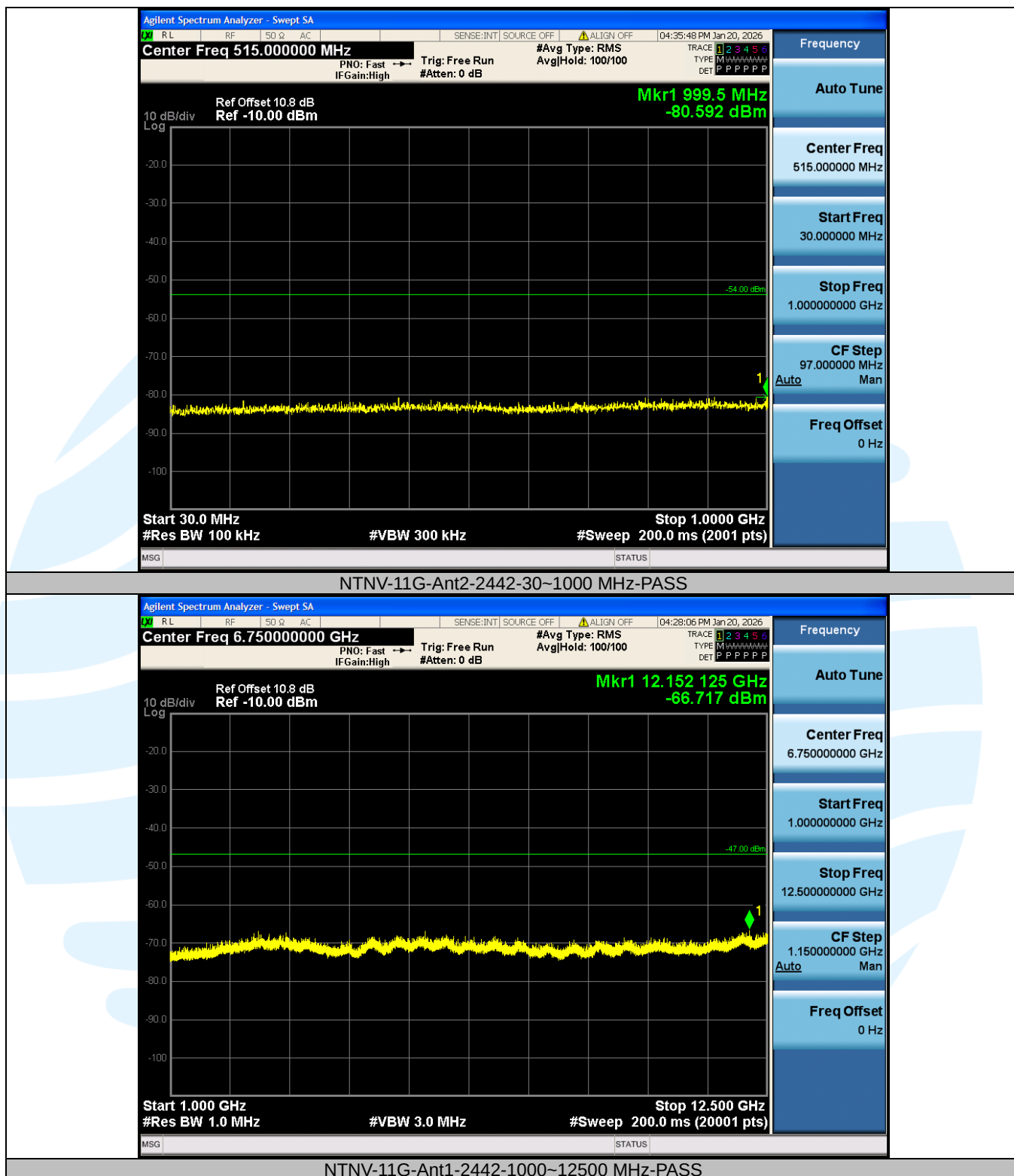
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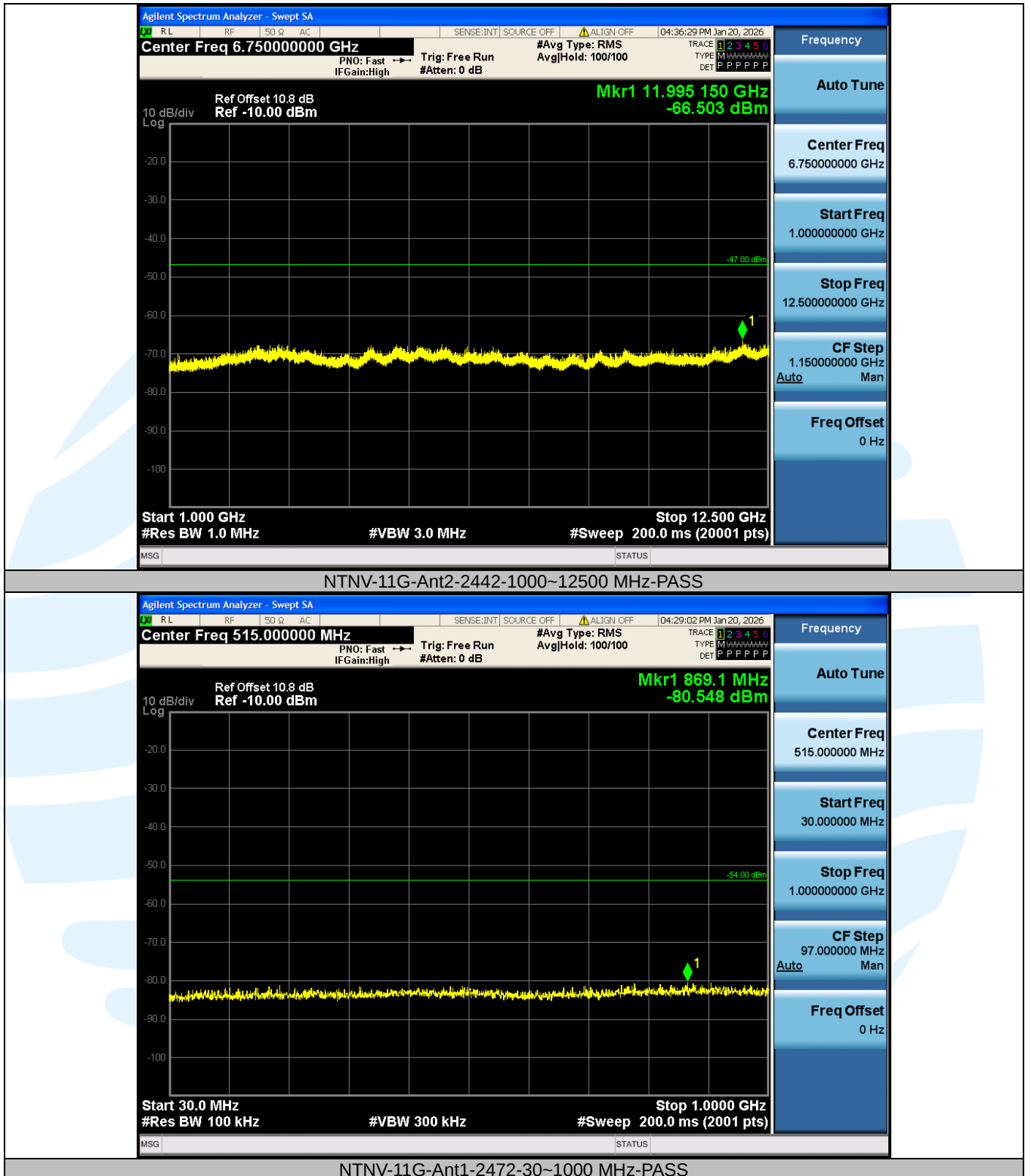
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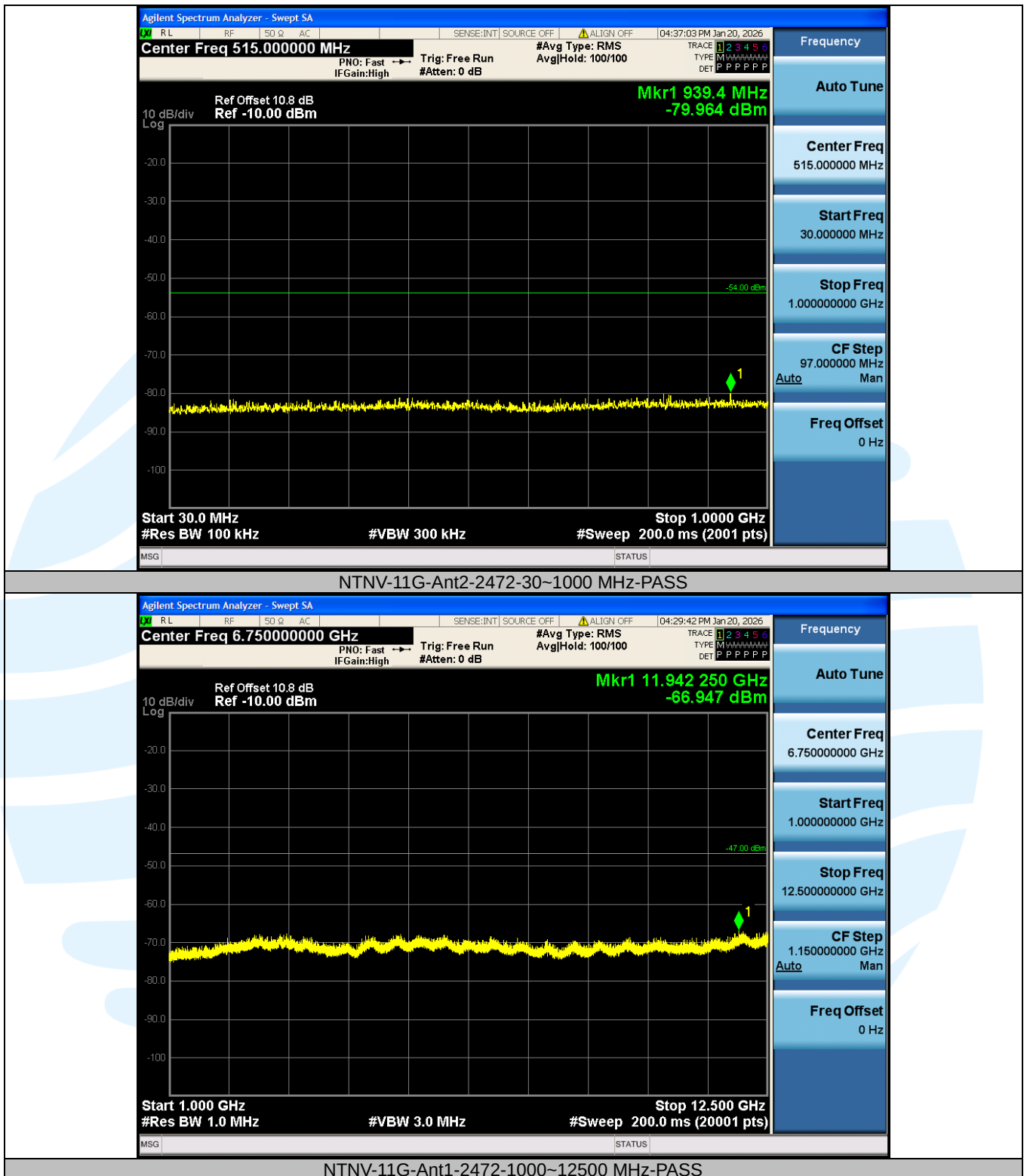
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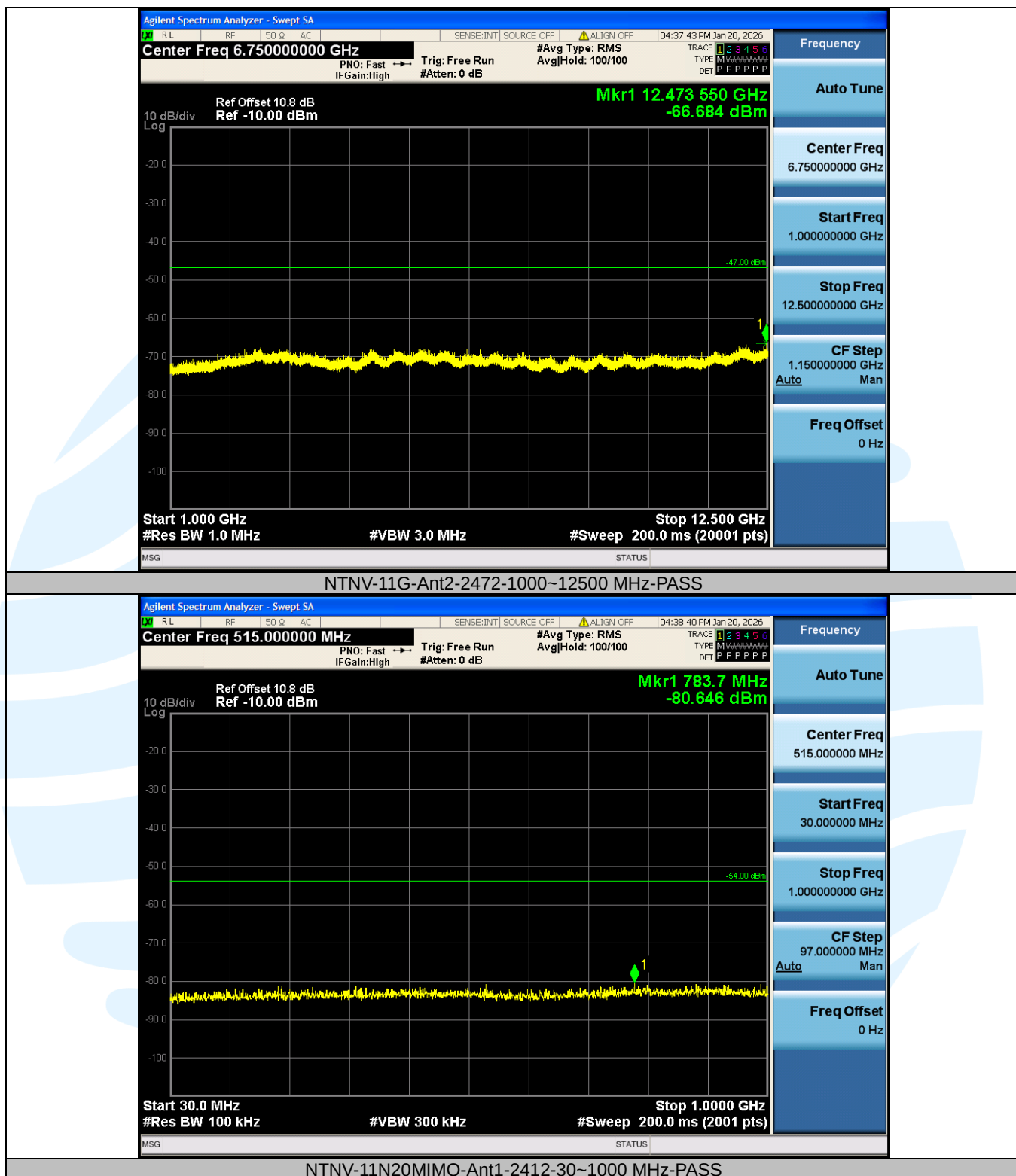
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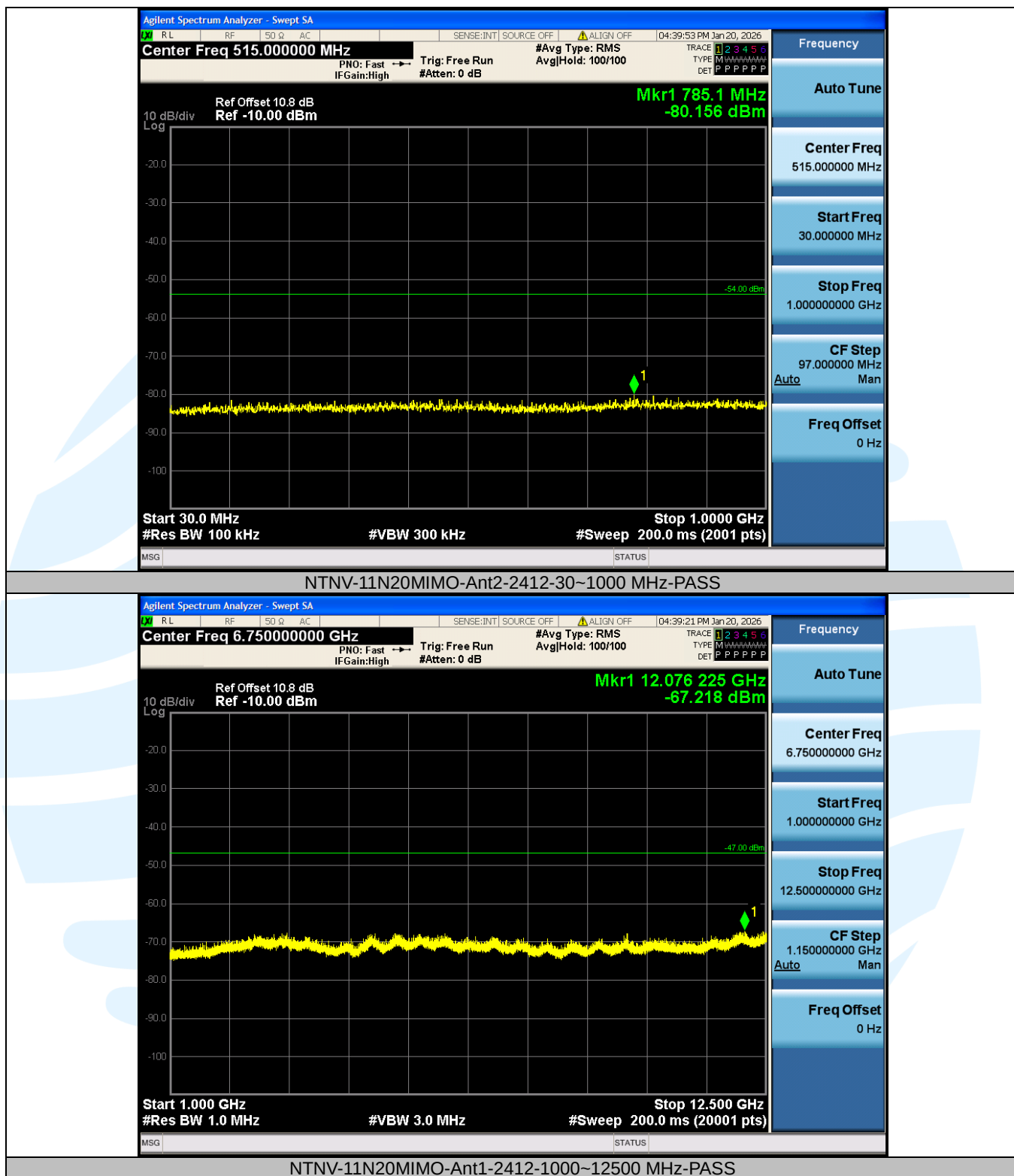
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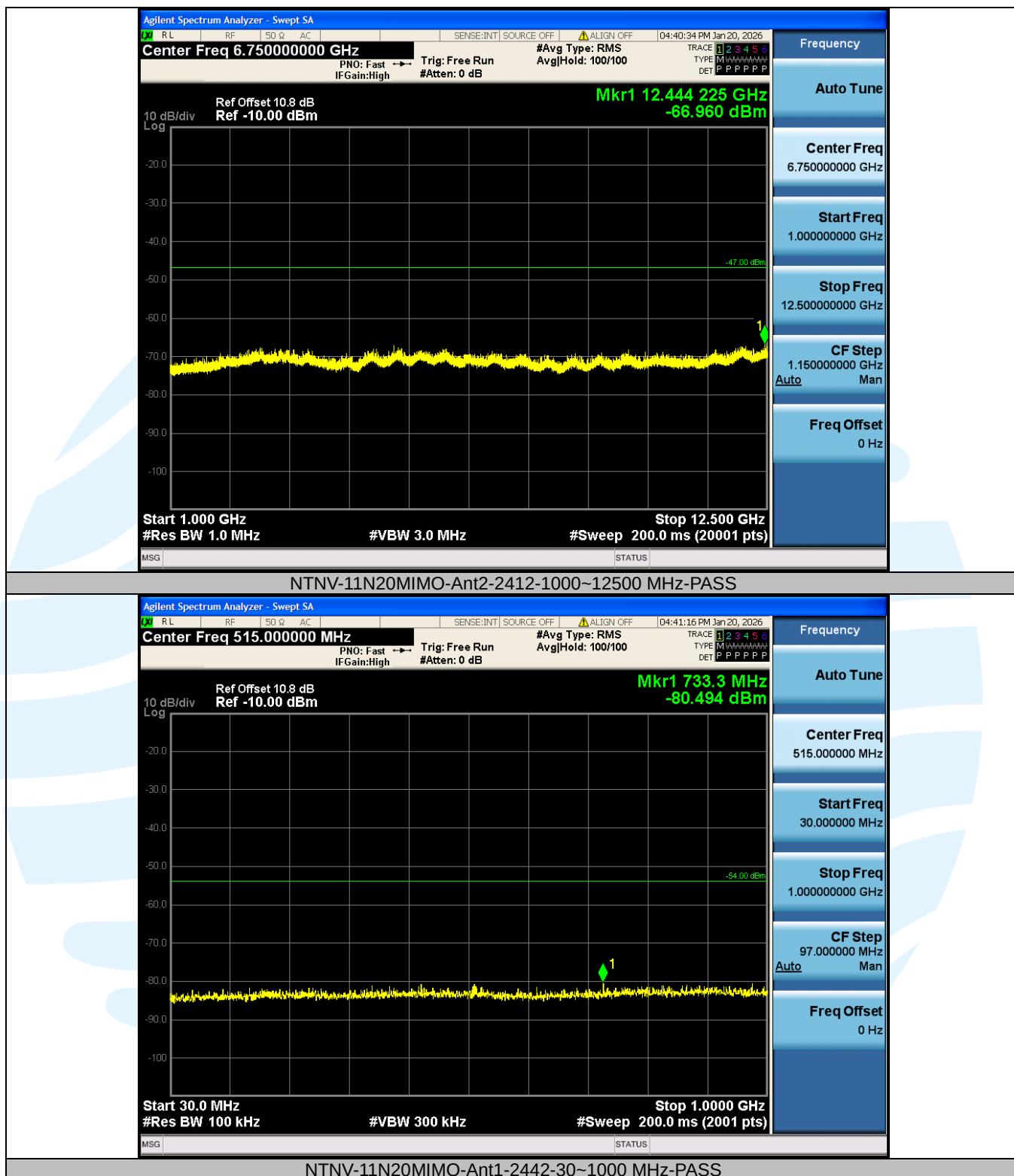
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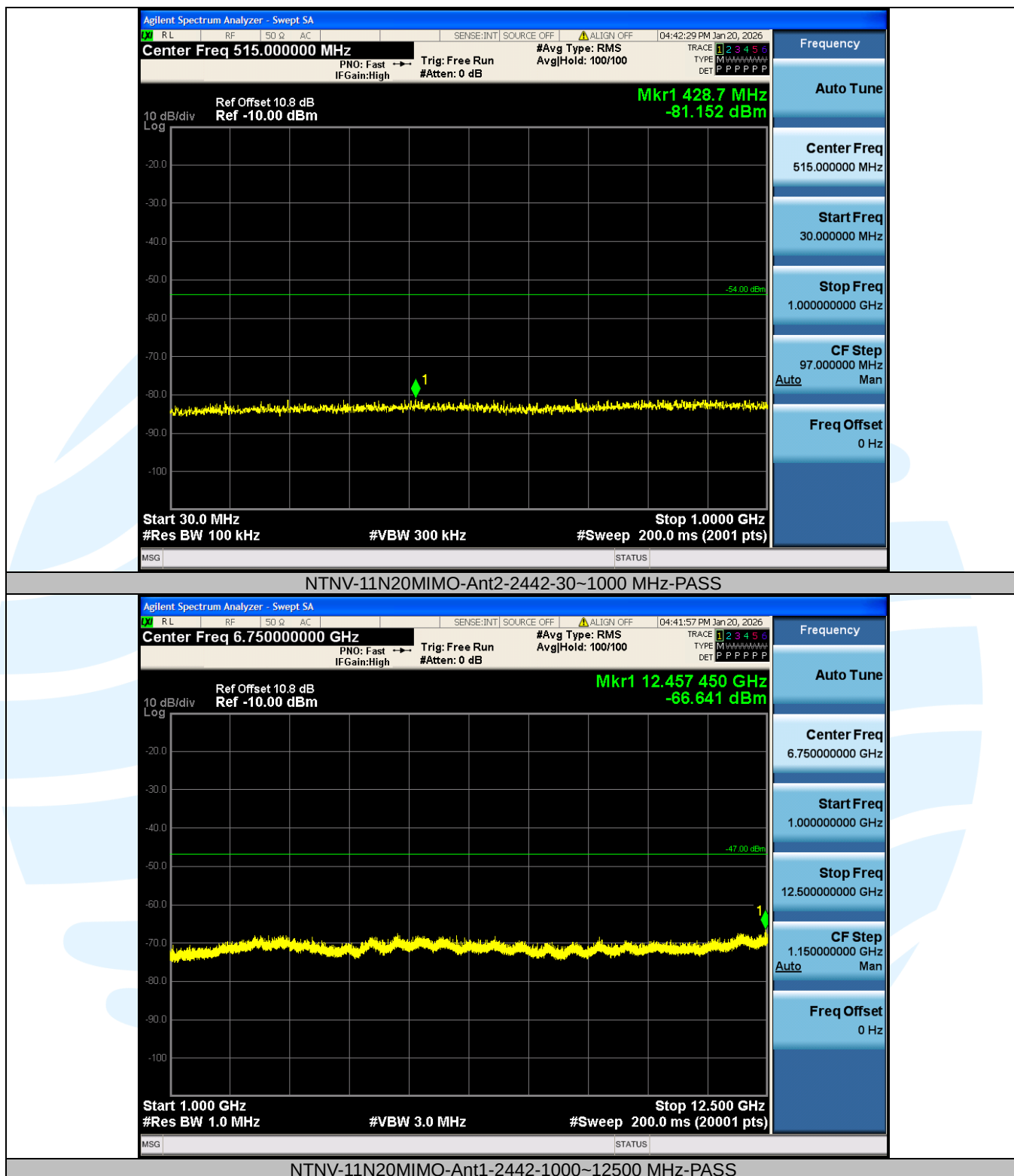
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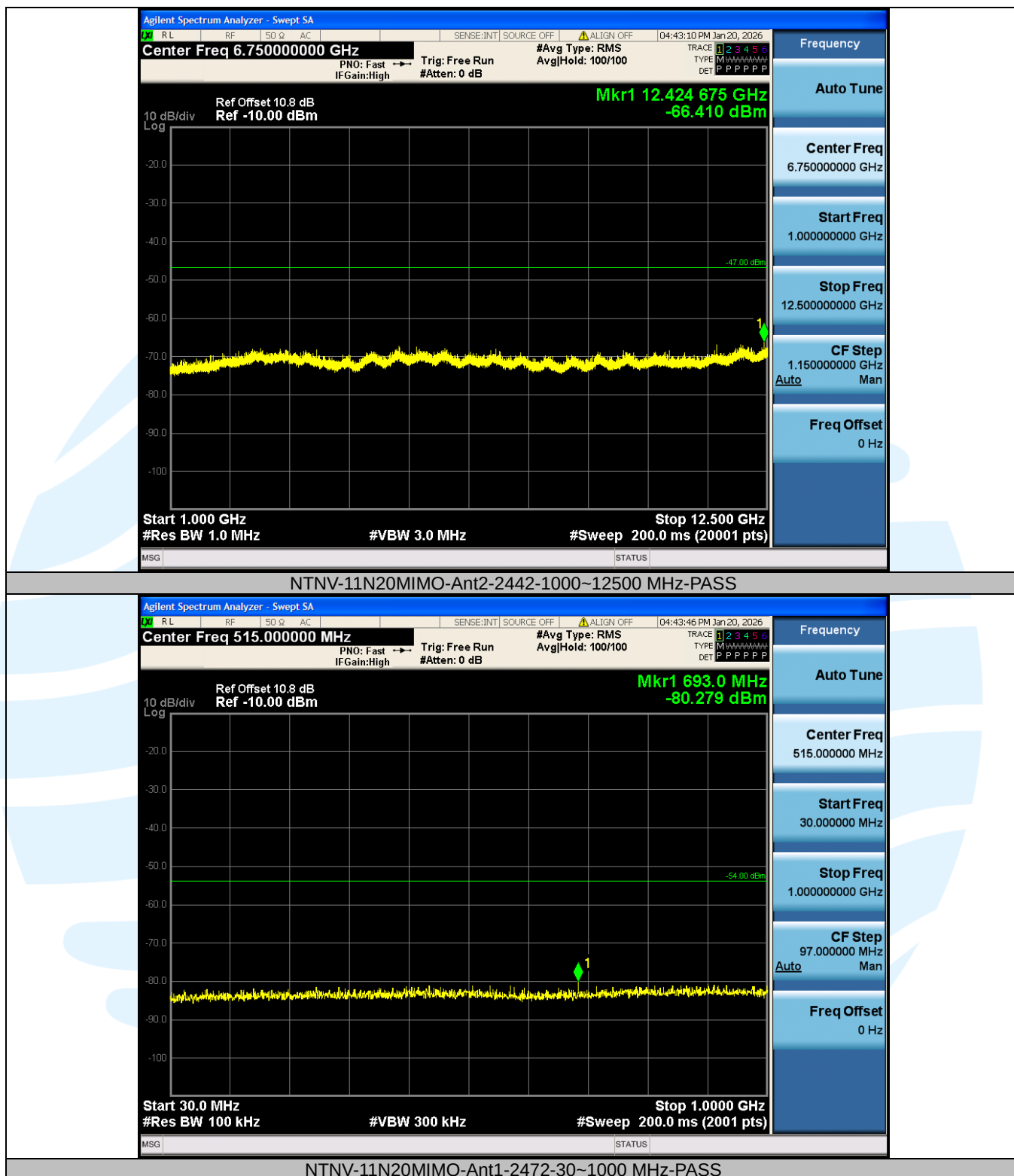
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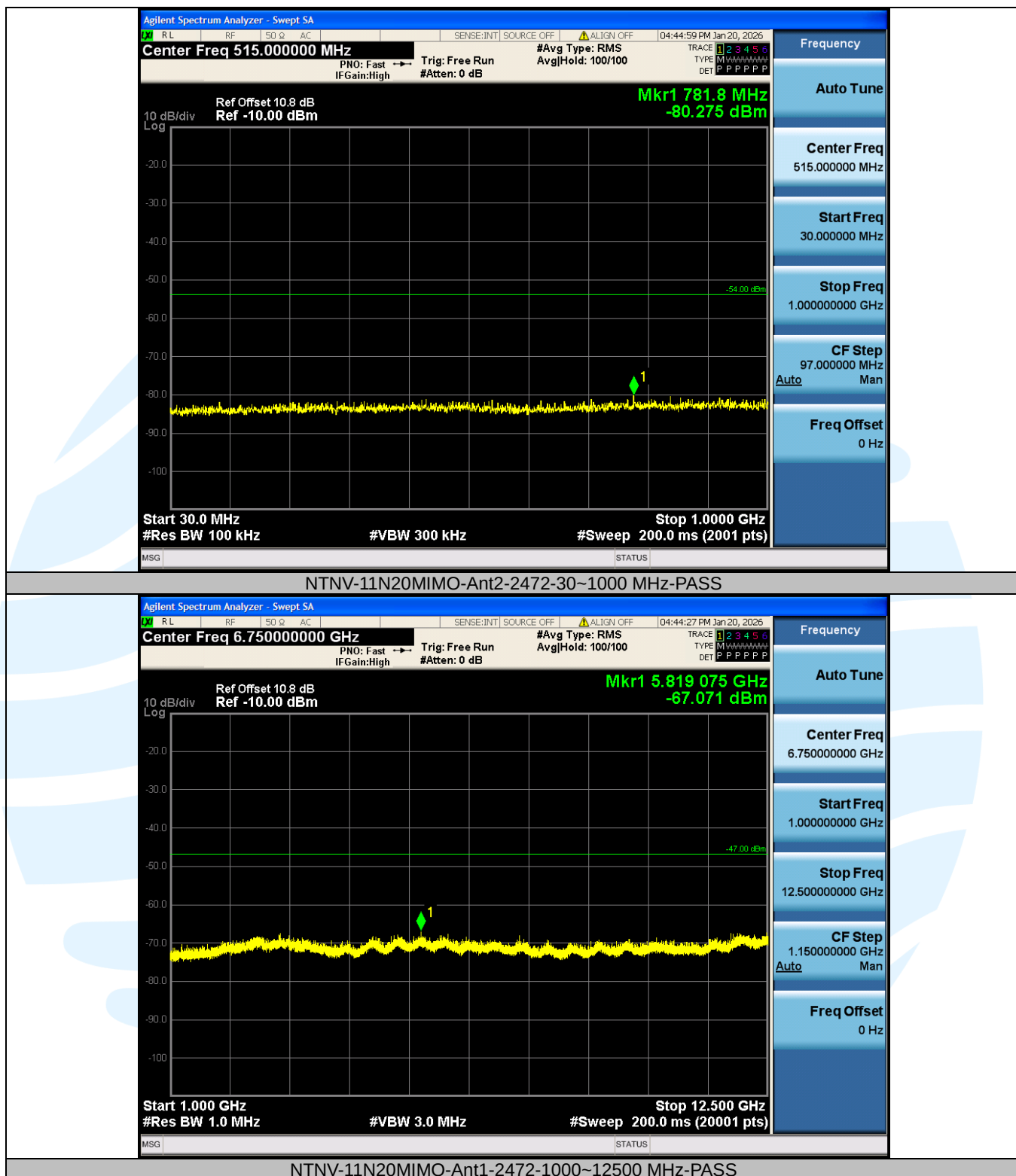
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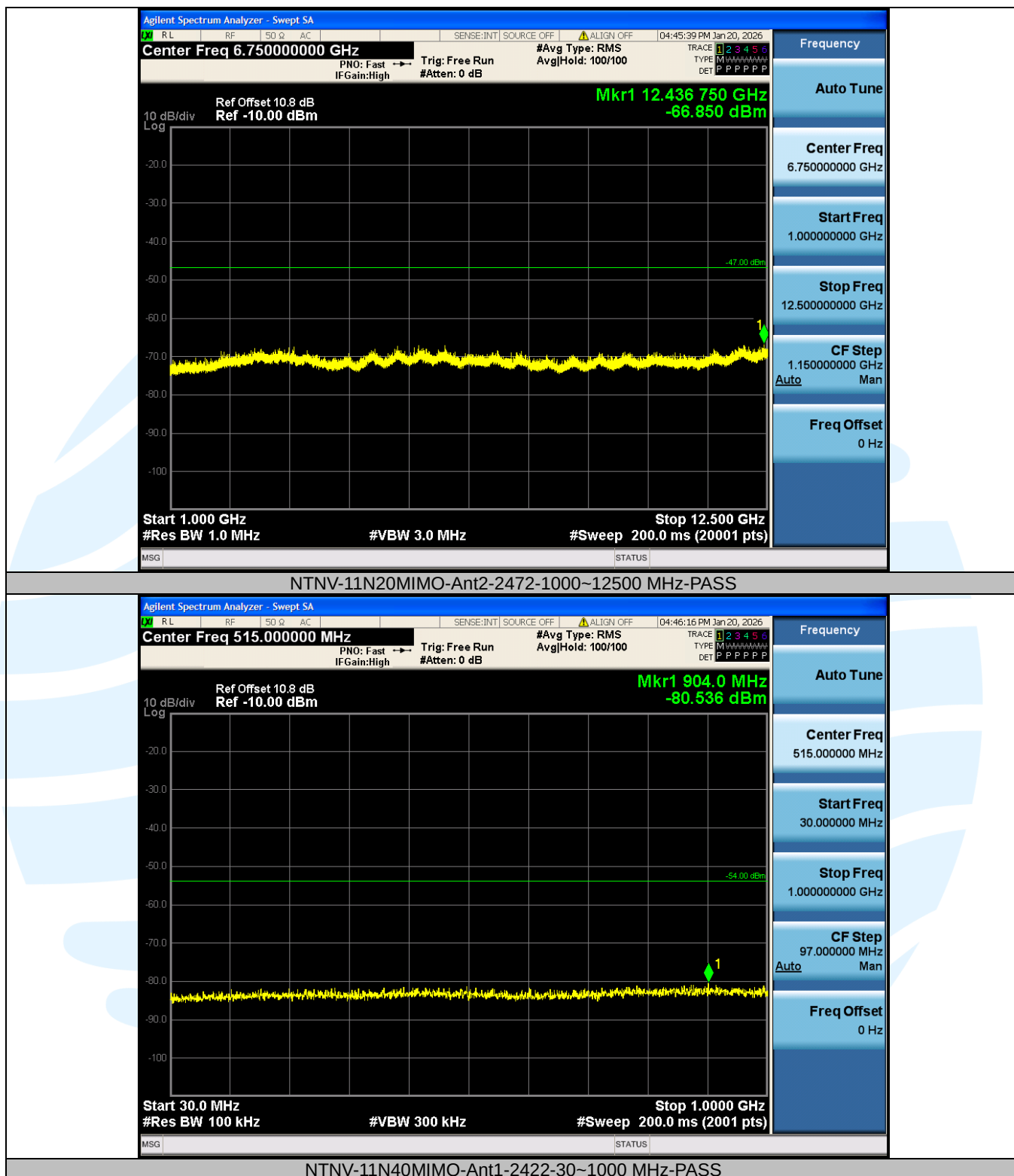
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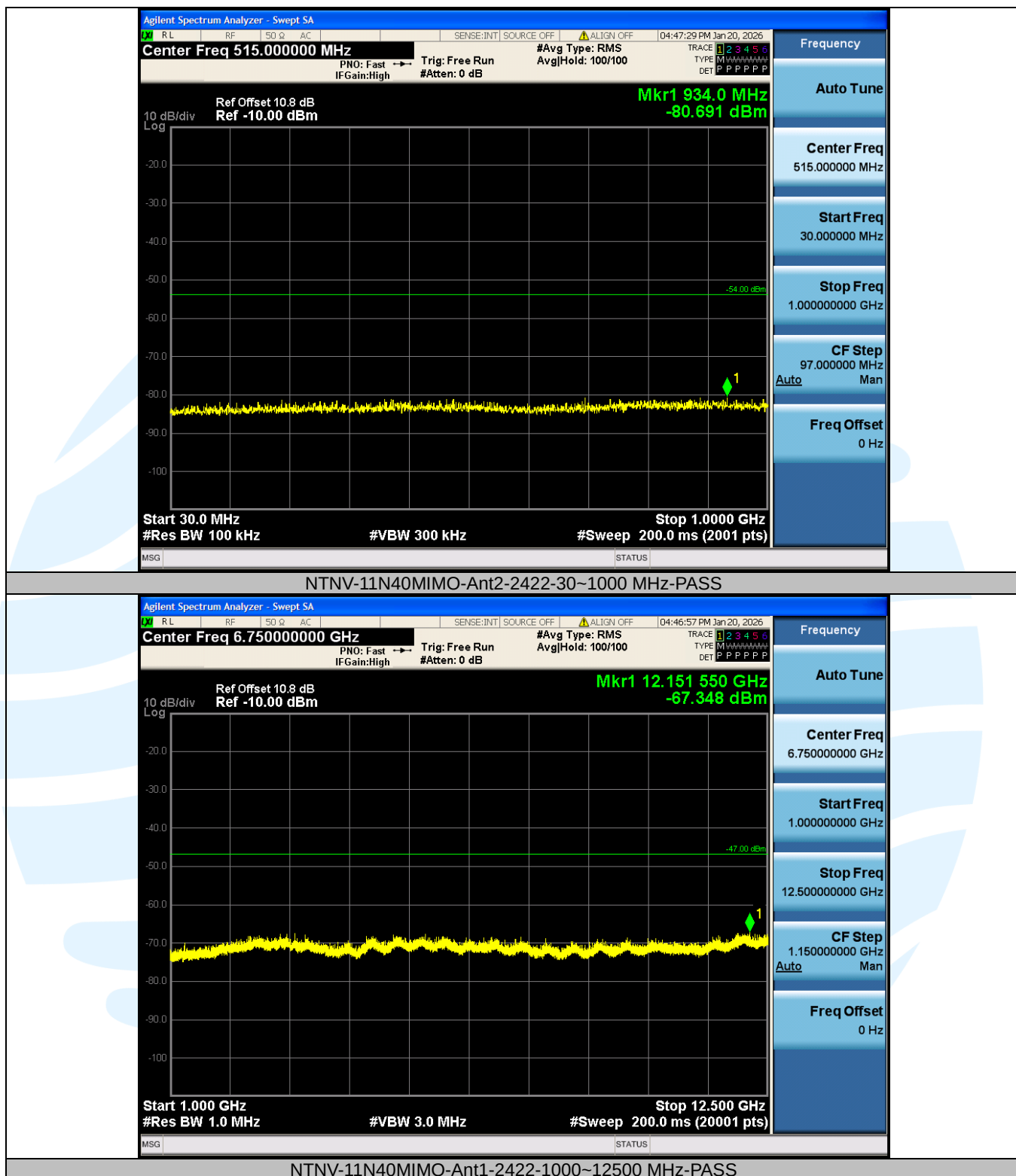
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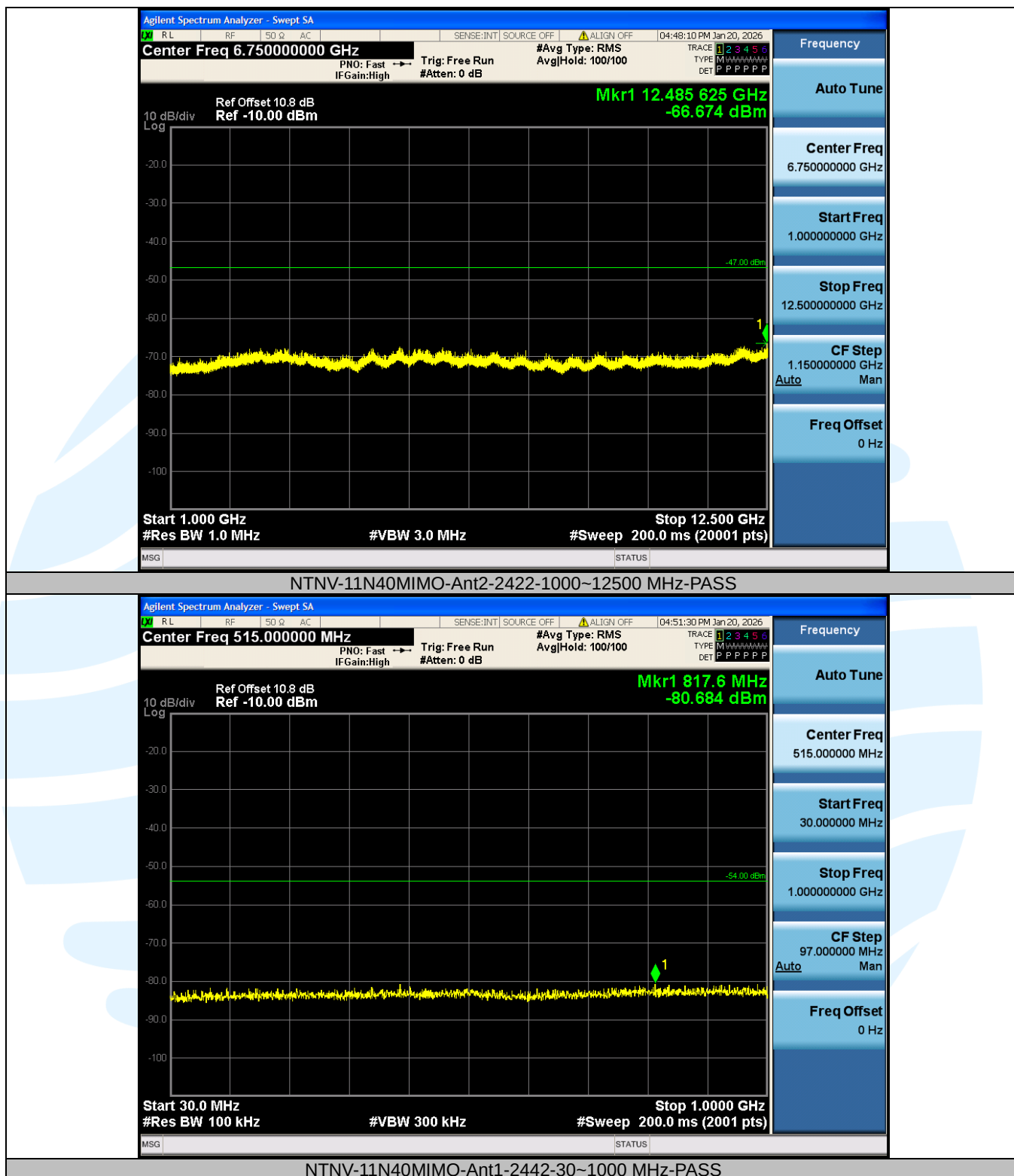
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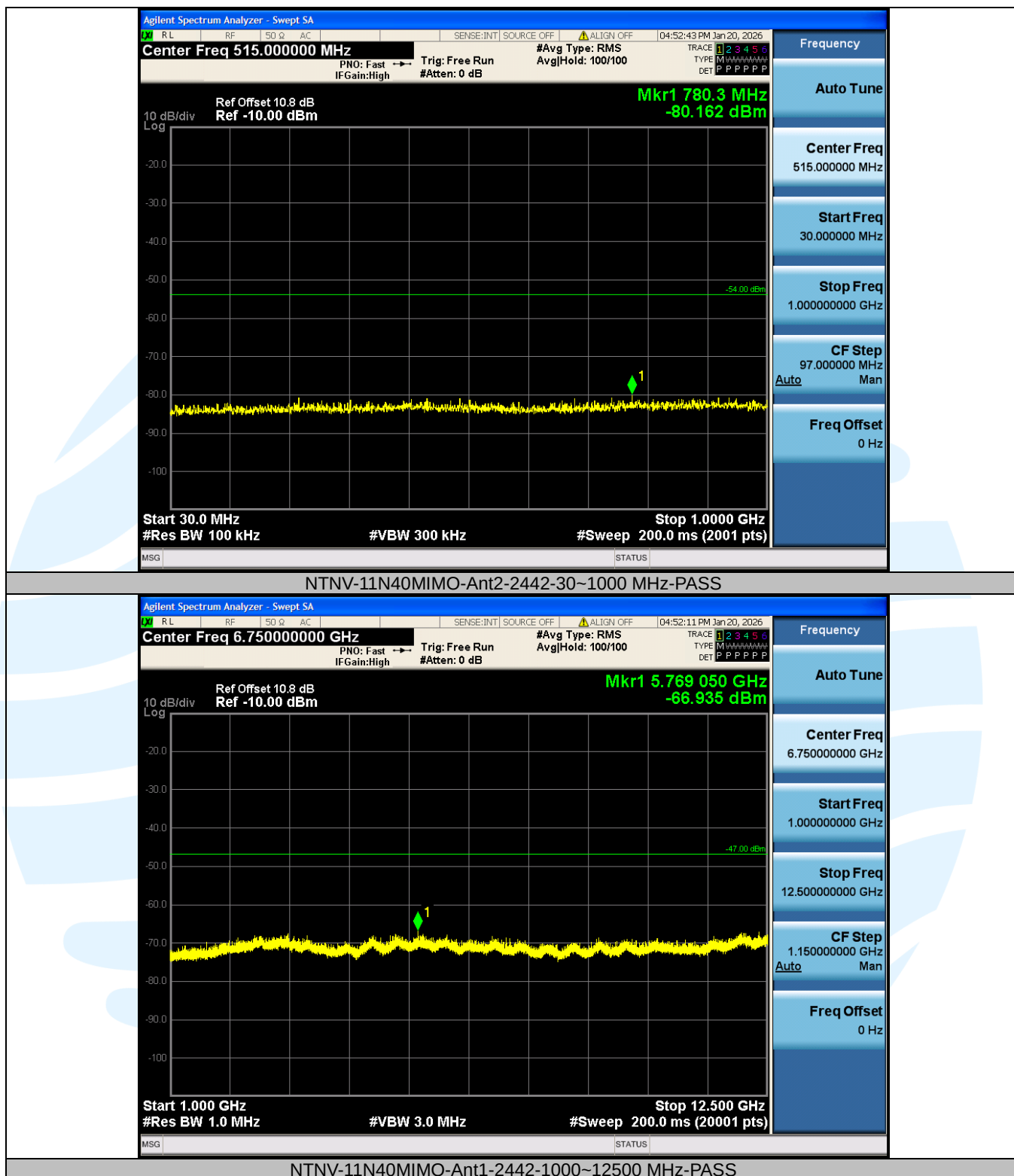
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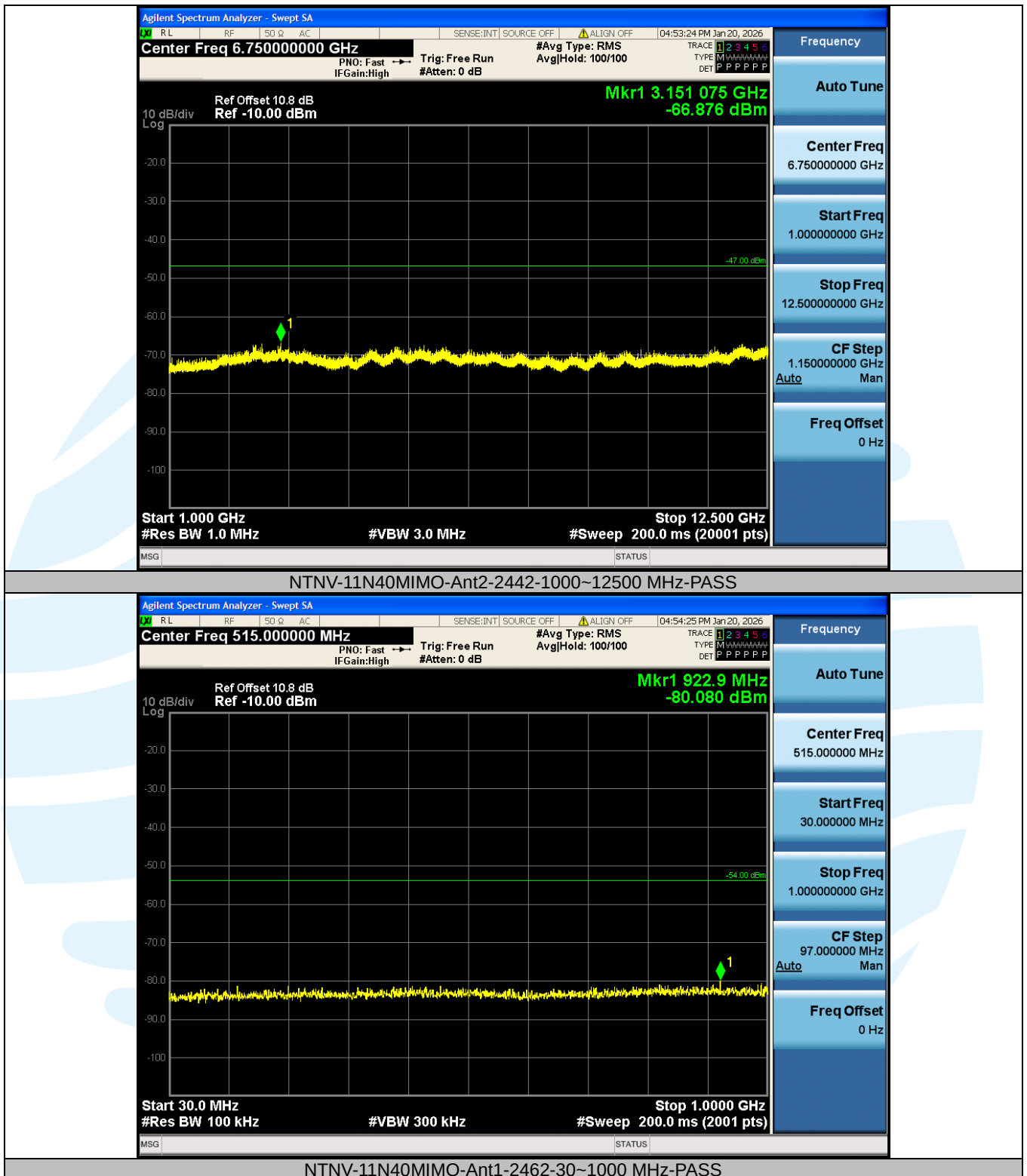
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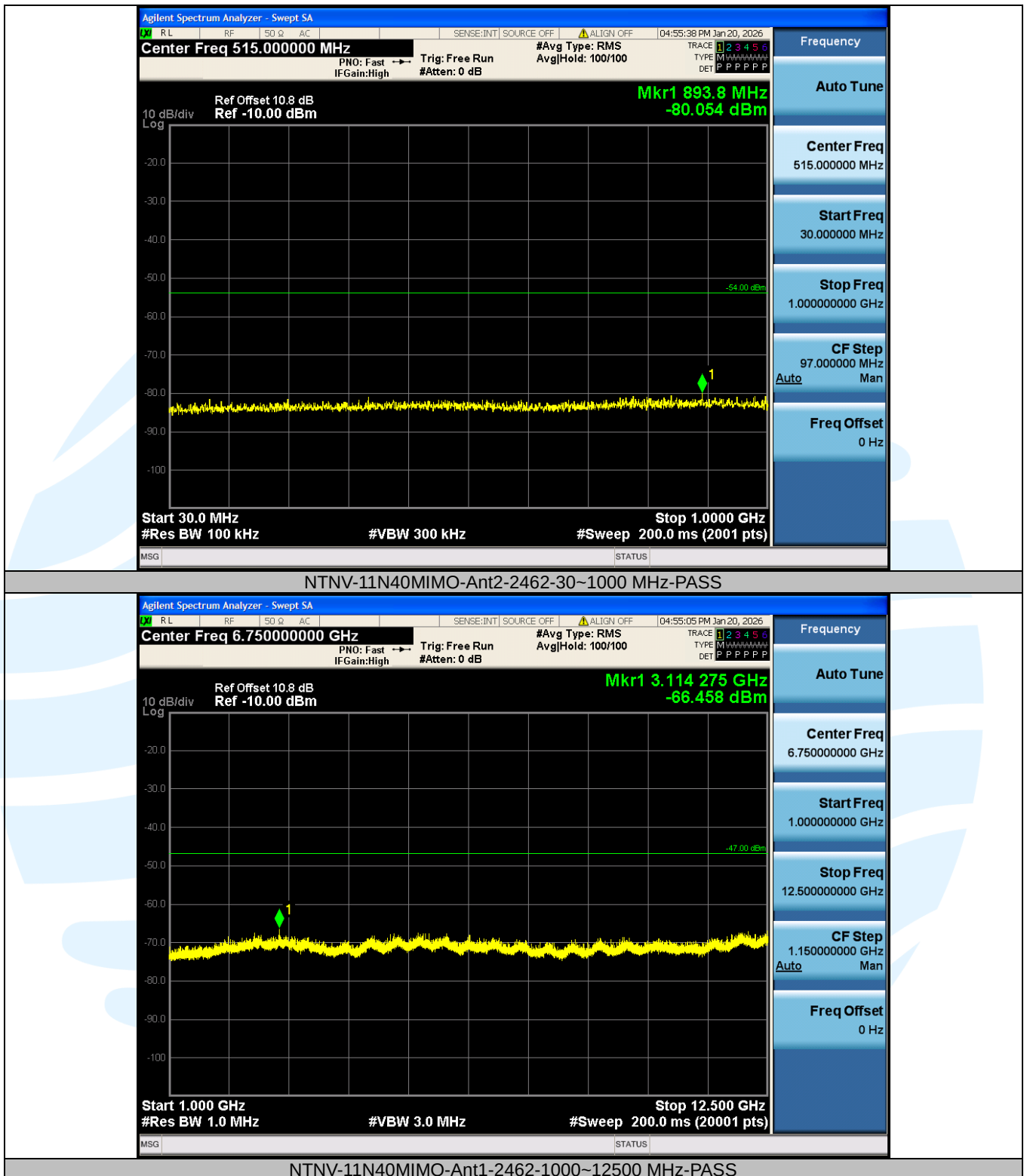
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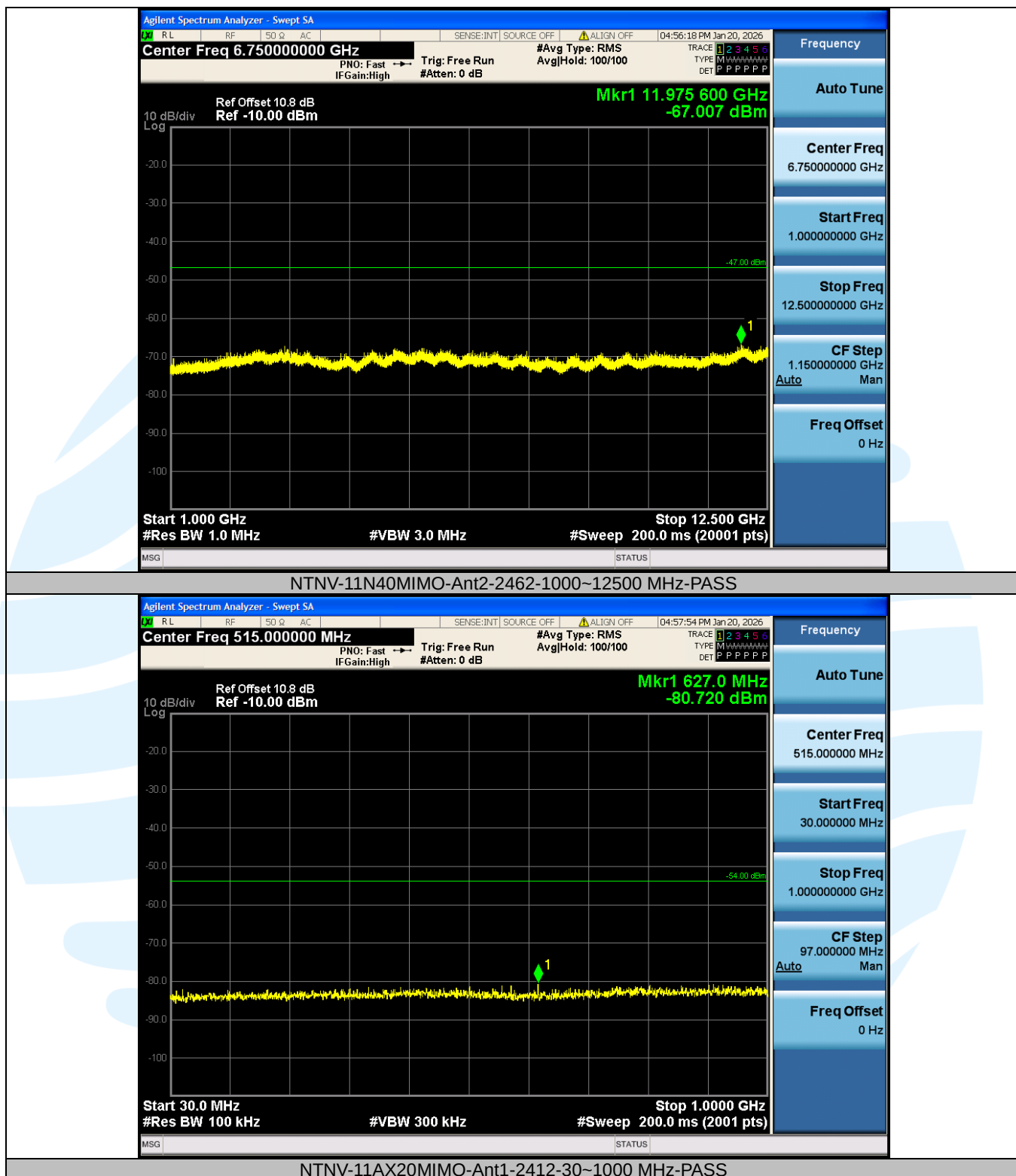
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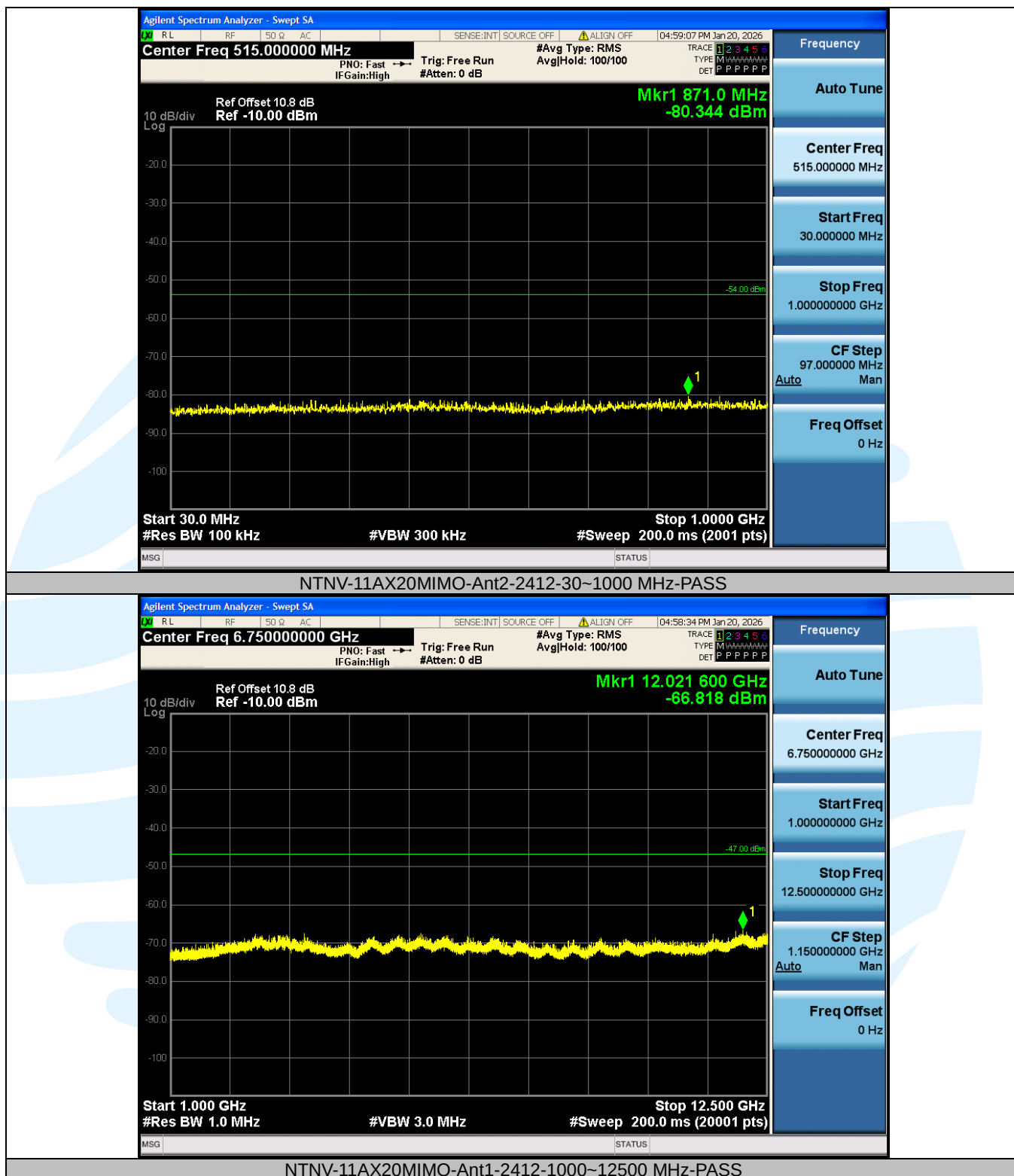
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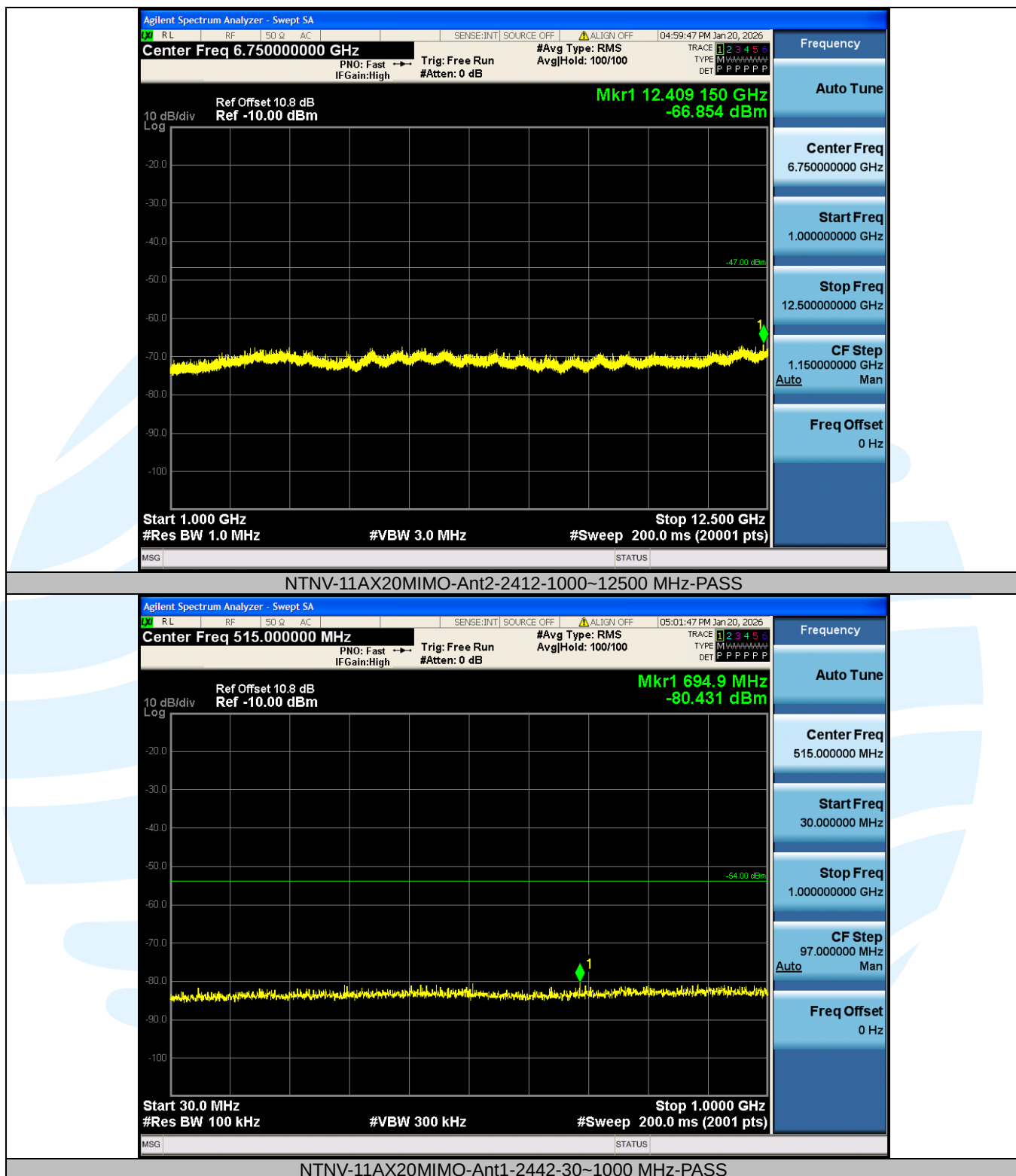
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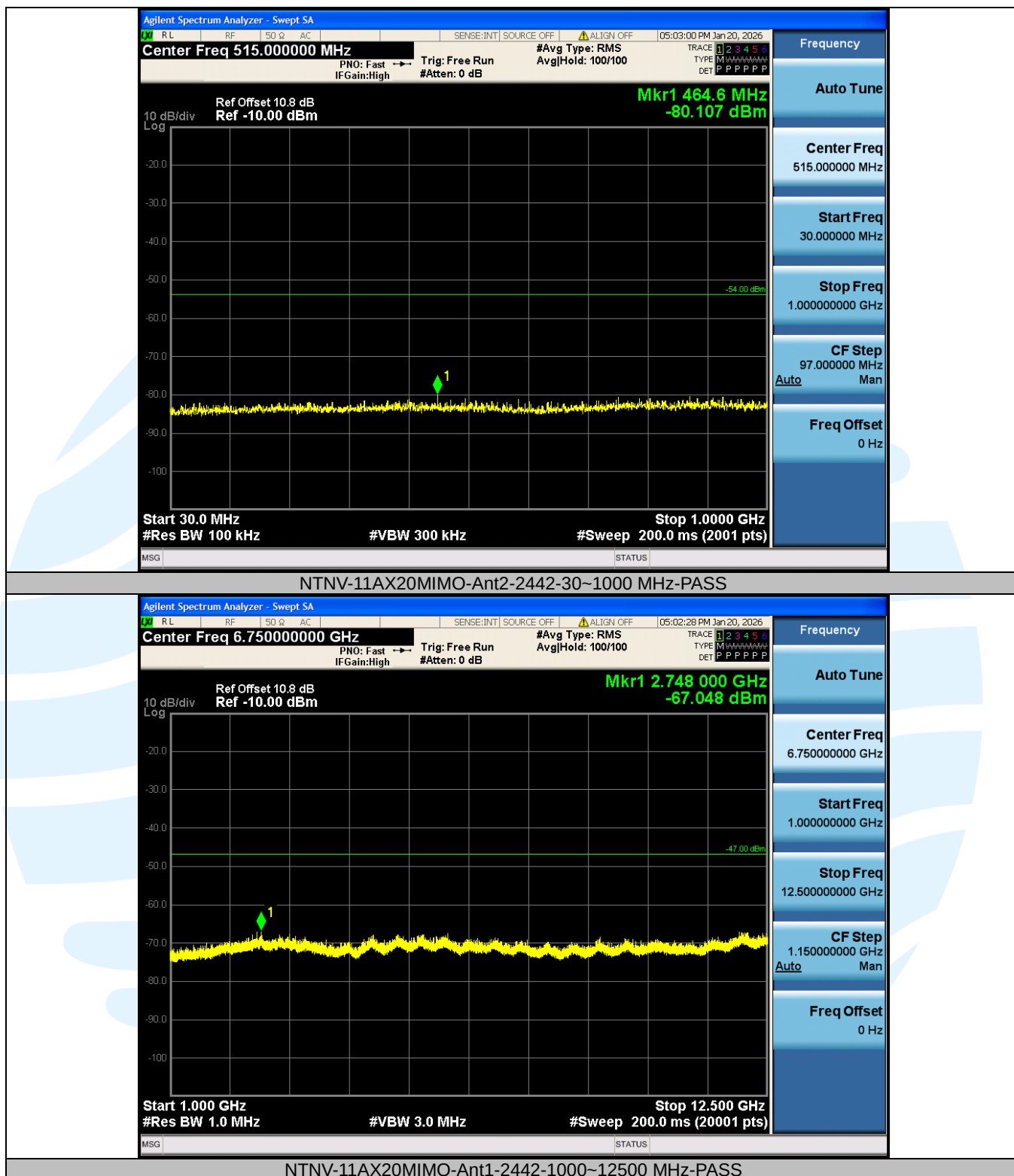
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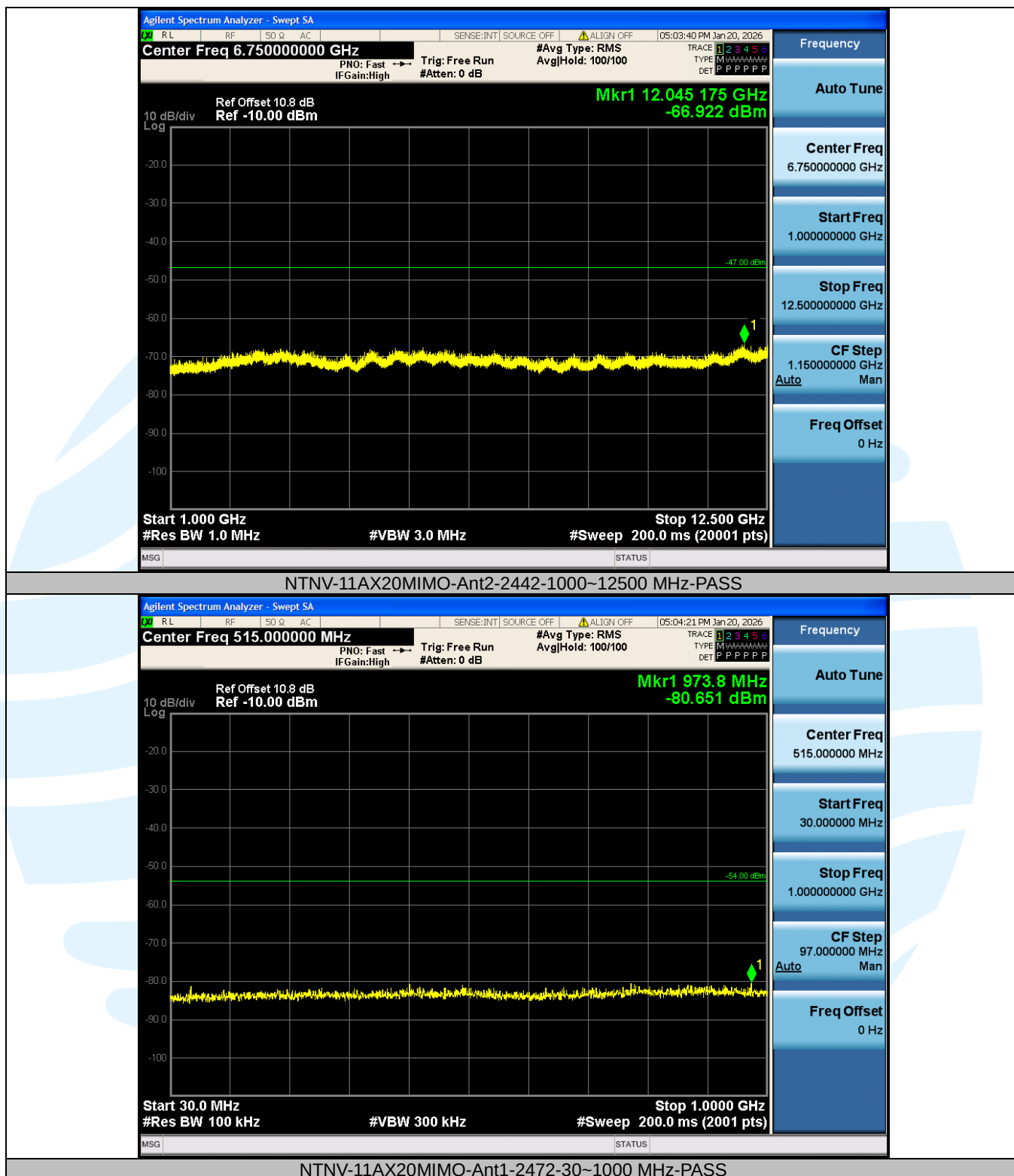
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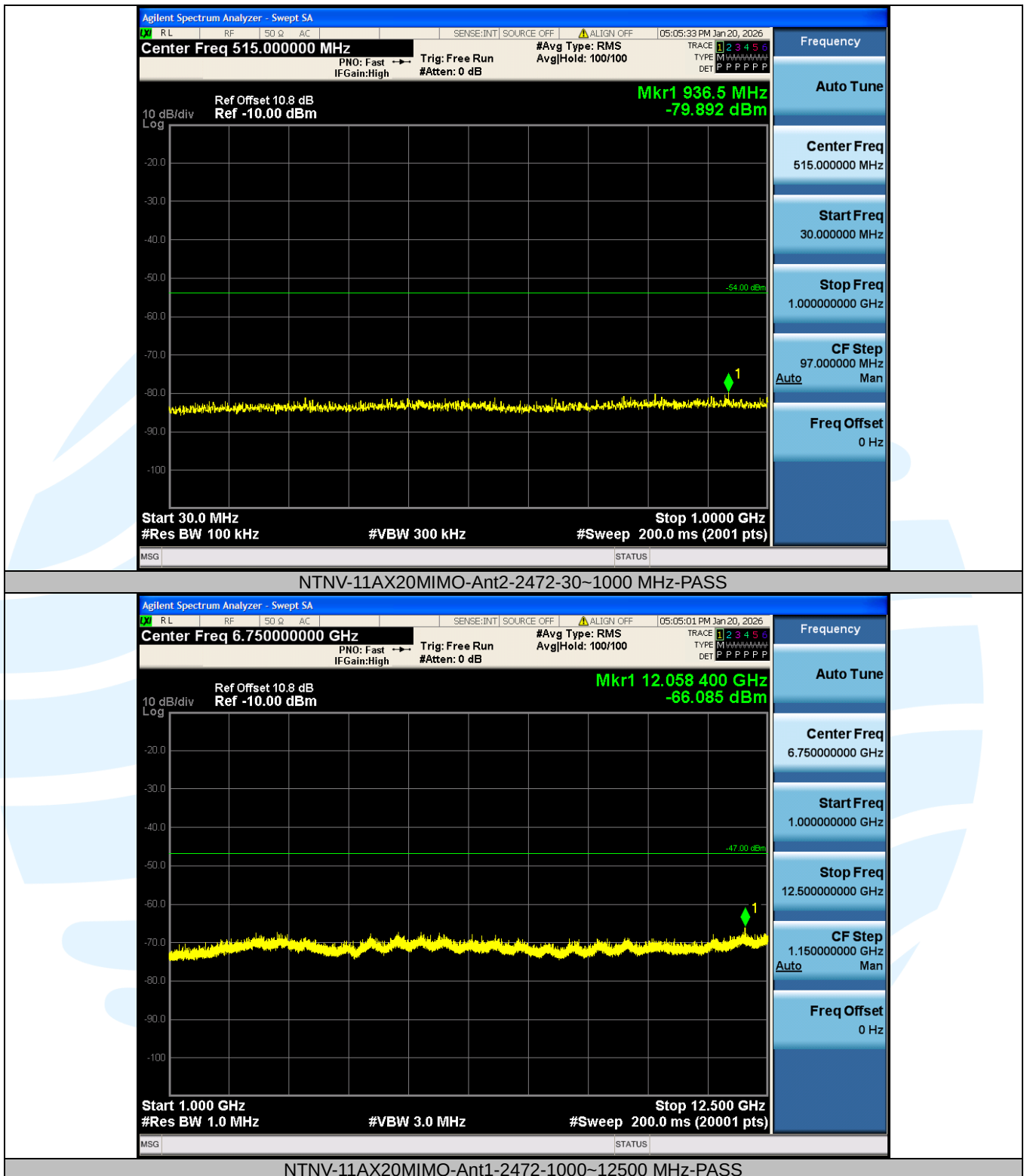
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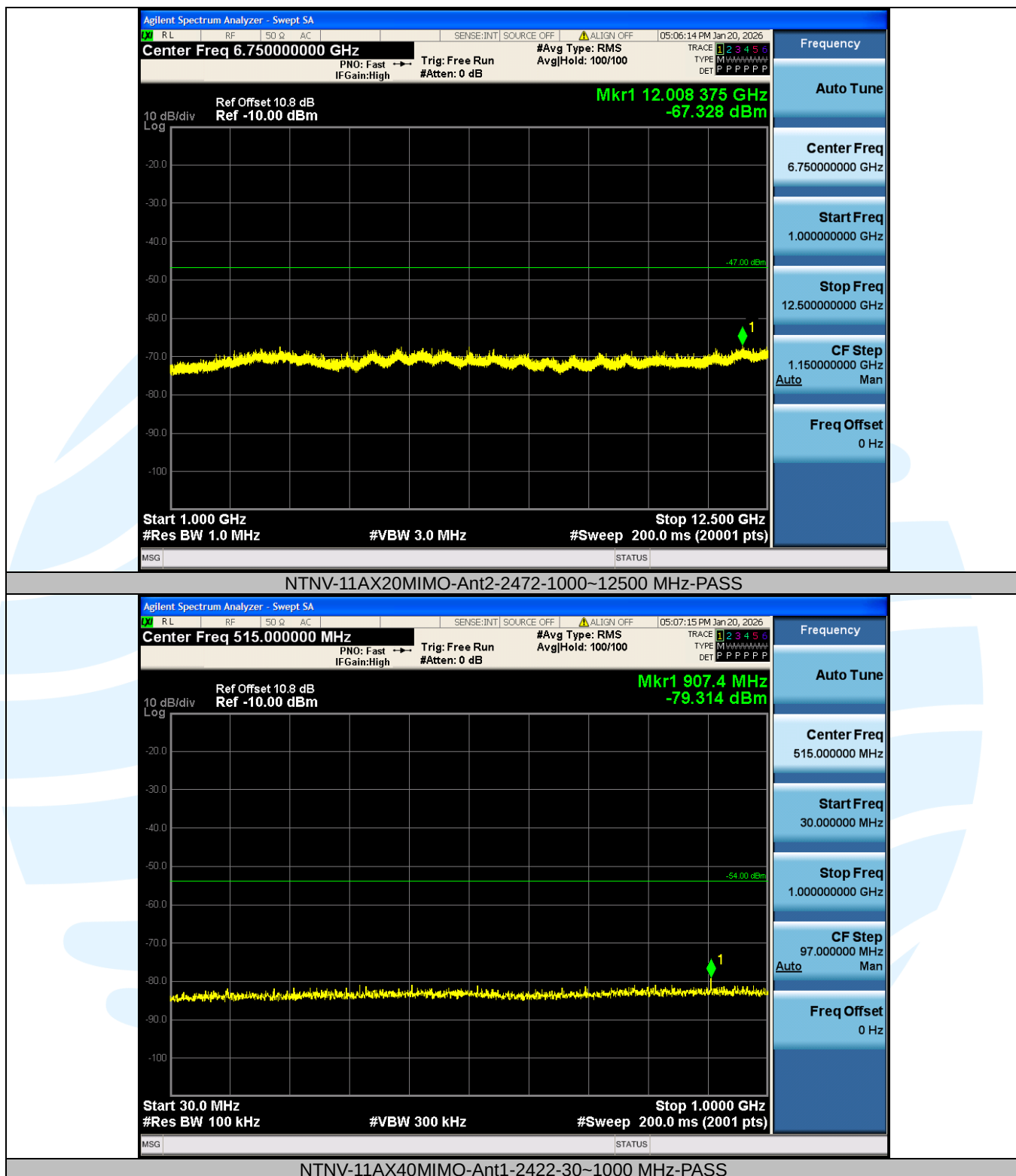
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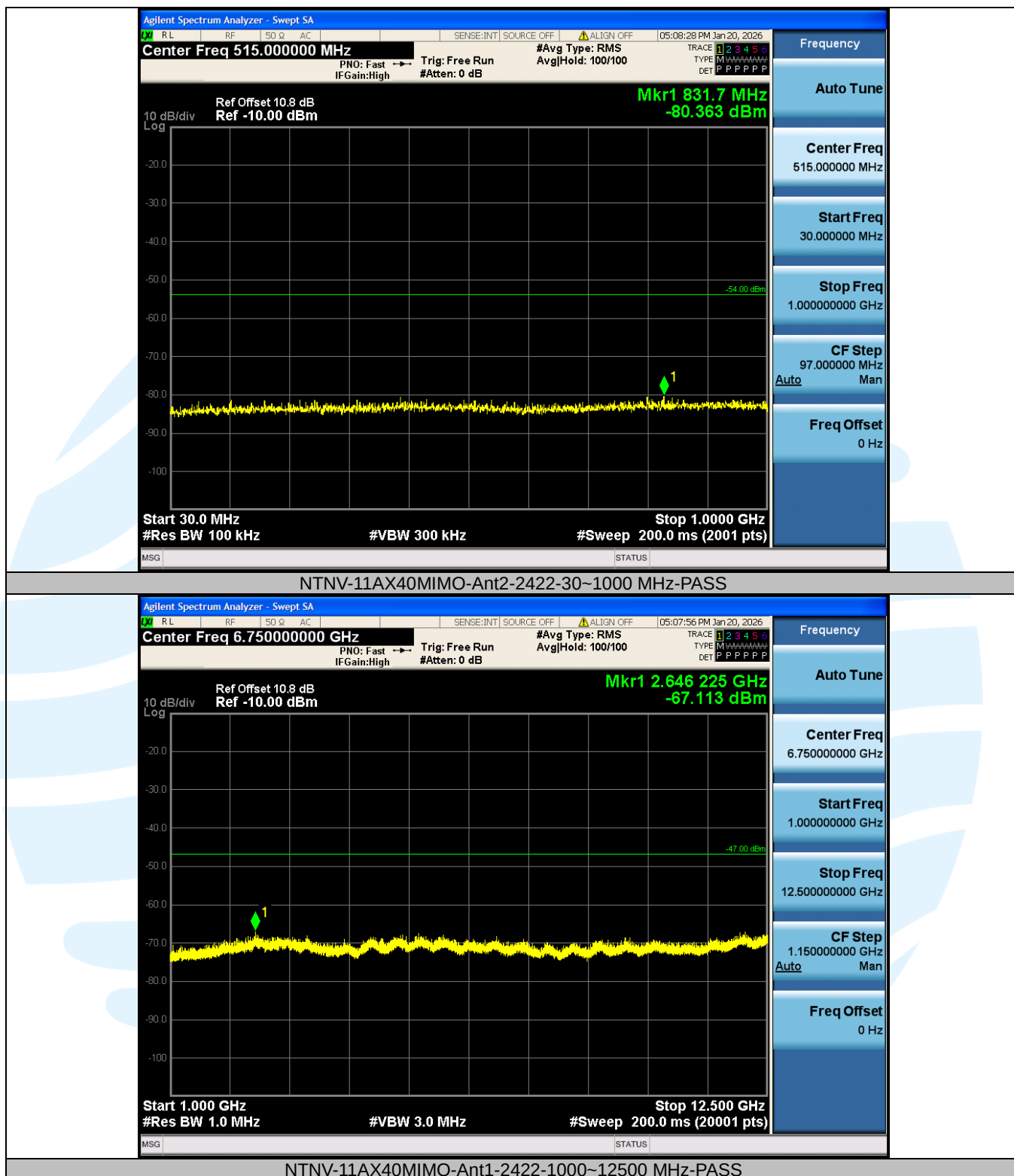
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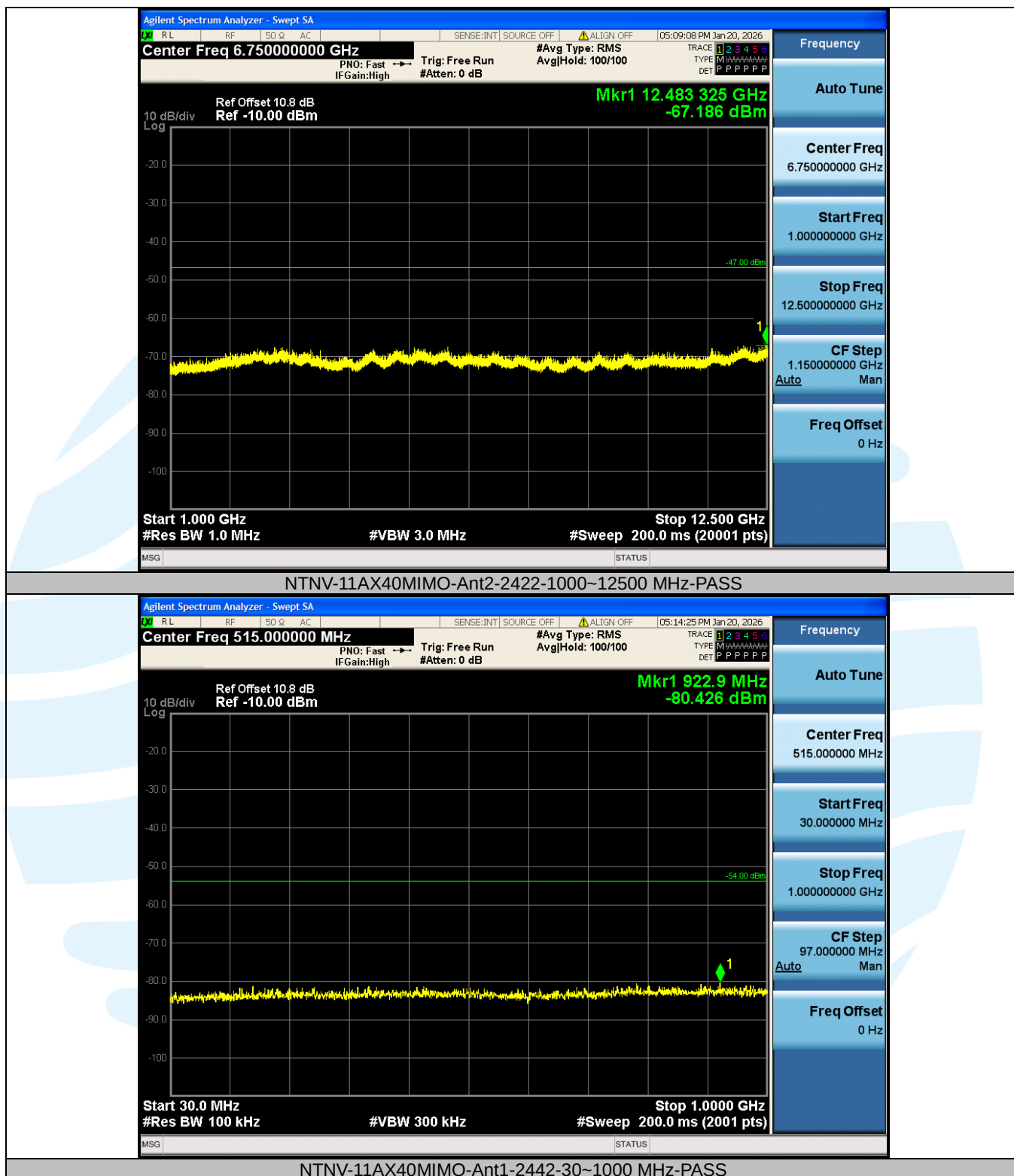
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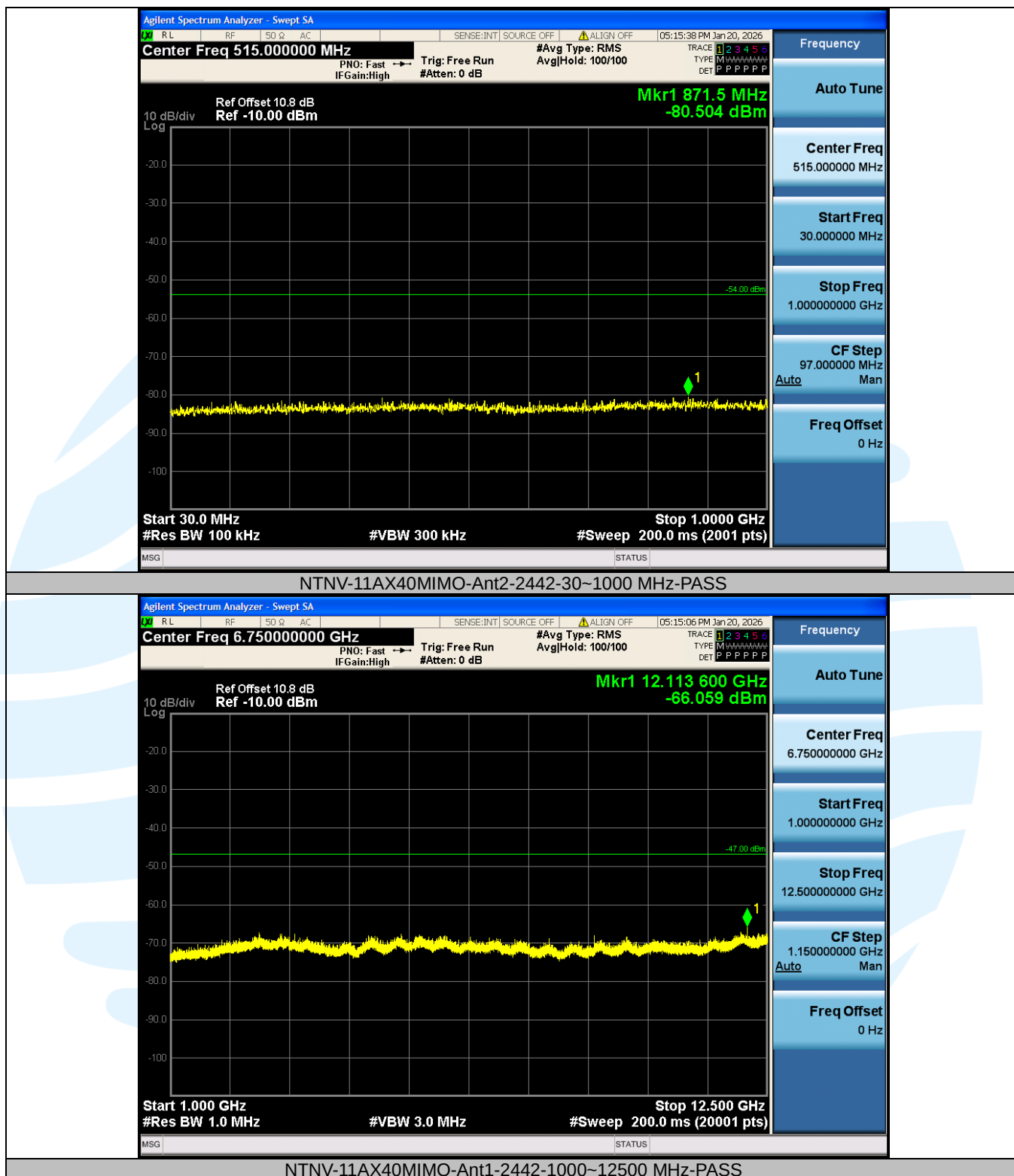
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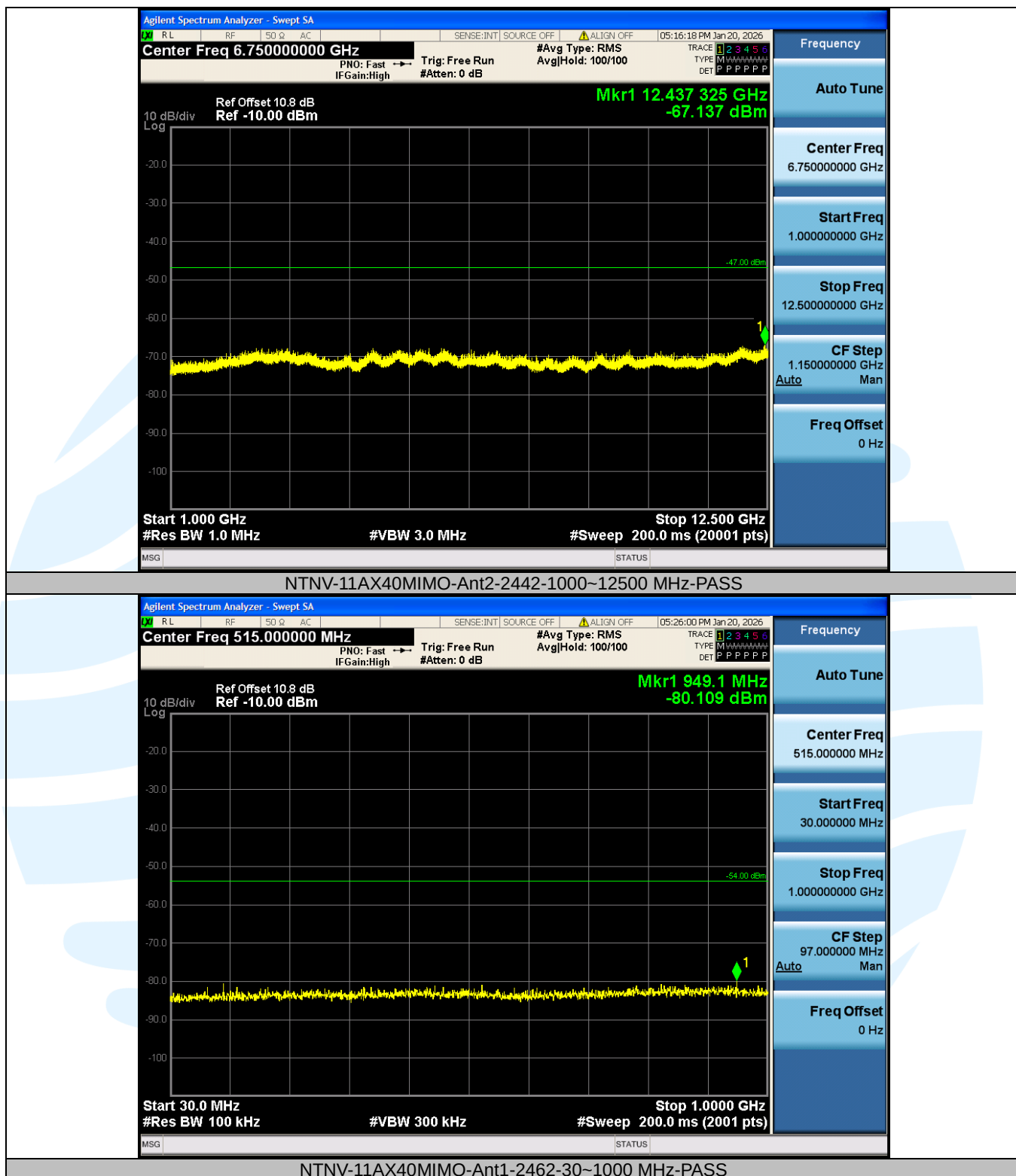
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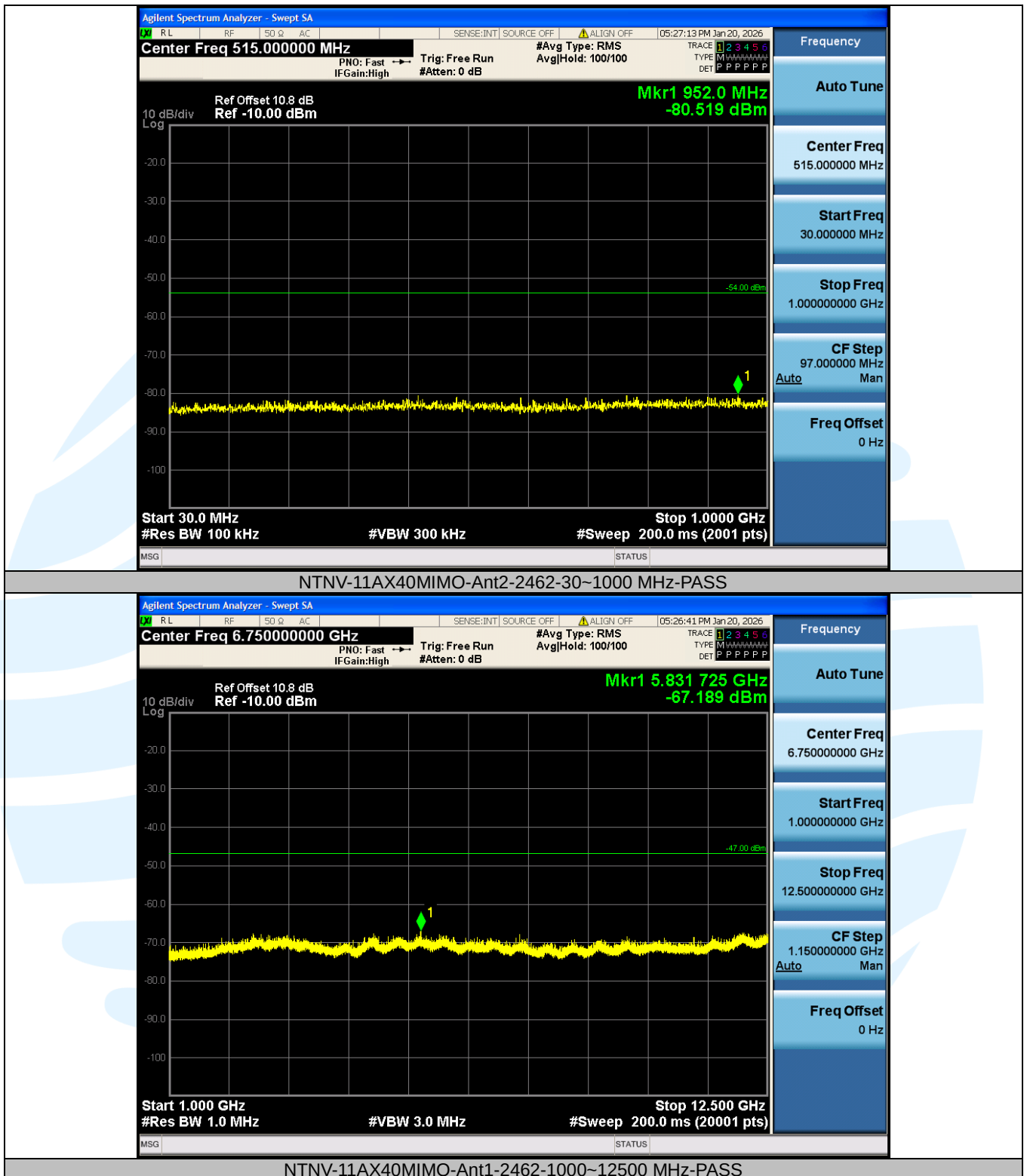
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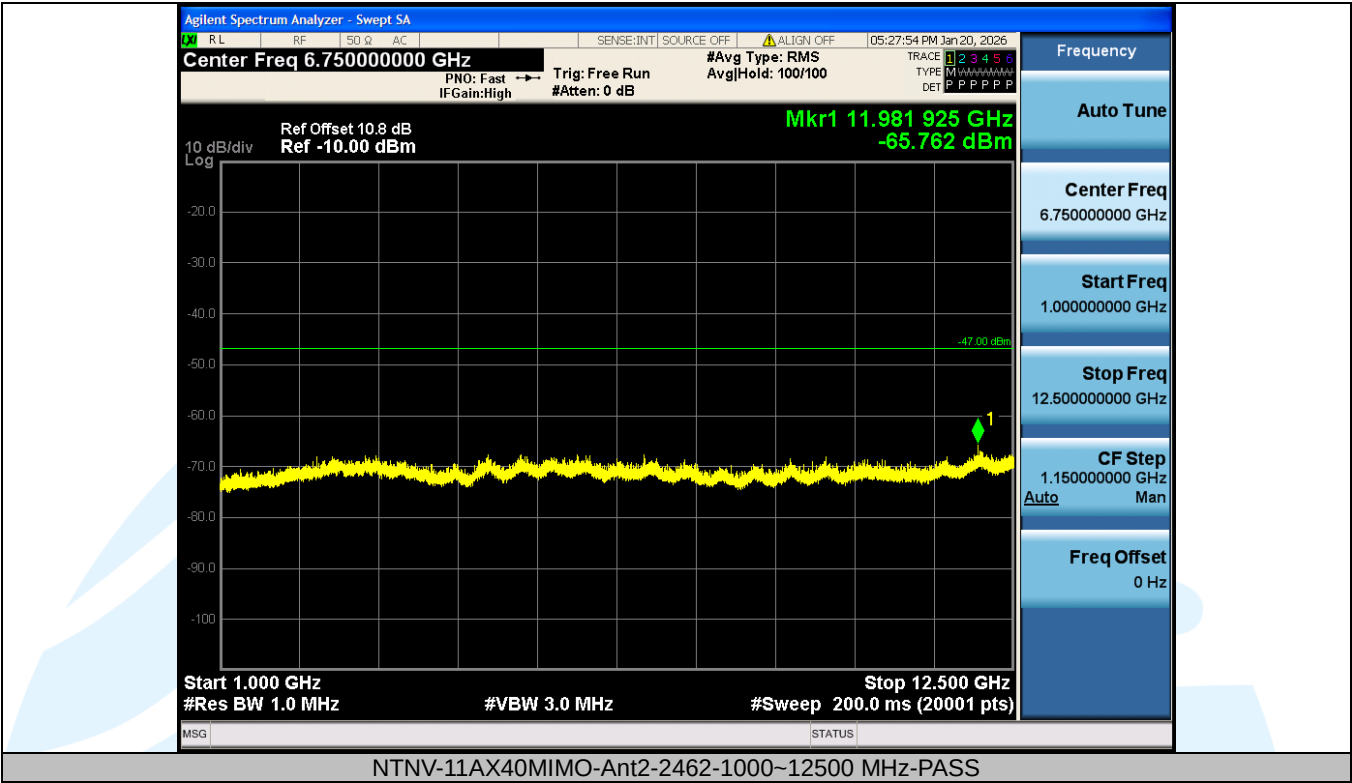
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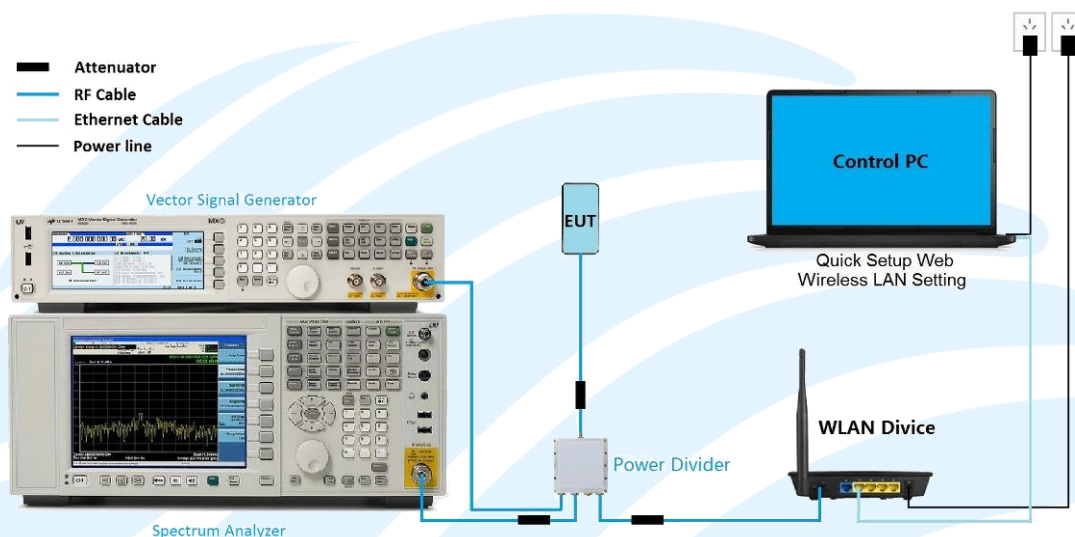
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5.9 CARRIER SENSE CAPABILITY

5.9.1 Limit

The radio equipment connected to telecommunication circuit equipment shall be equipped with a device which detects emissions radiated from another radio station and prevents interference, or a device which prevents interference by operation on a receive signal and a signal for diffusion for signal level detection.

5.9.2 Test Setup



5.9.3 Instruments Used

Refer to section 3 for details

5.9.4 Test Procedures

1. Turn the standard signal generator output OFF. Leave the equipment under test to be ready for transmission and verify the transmission with the spectrum analyzer.
2. Set the equipment under test to the receiving state.
3. Turn the standard signal generator ON and leave the equipment under test to be ready for transmission and verify with the spectrum analyzer that no transmission is being made.

5.9.5 Result

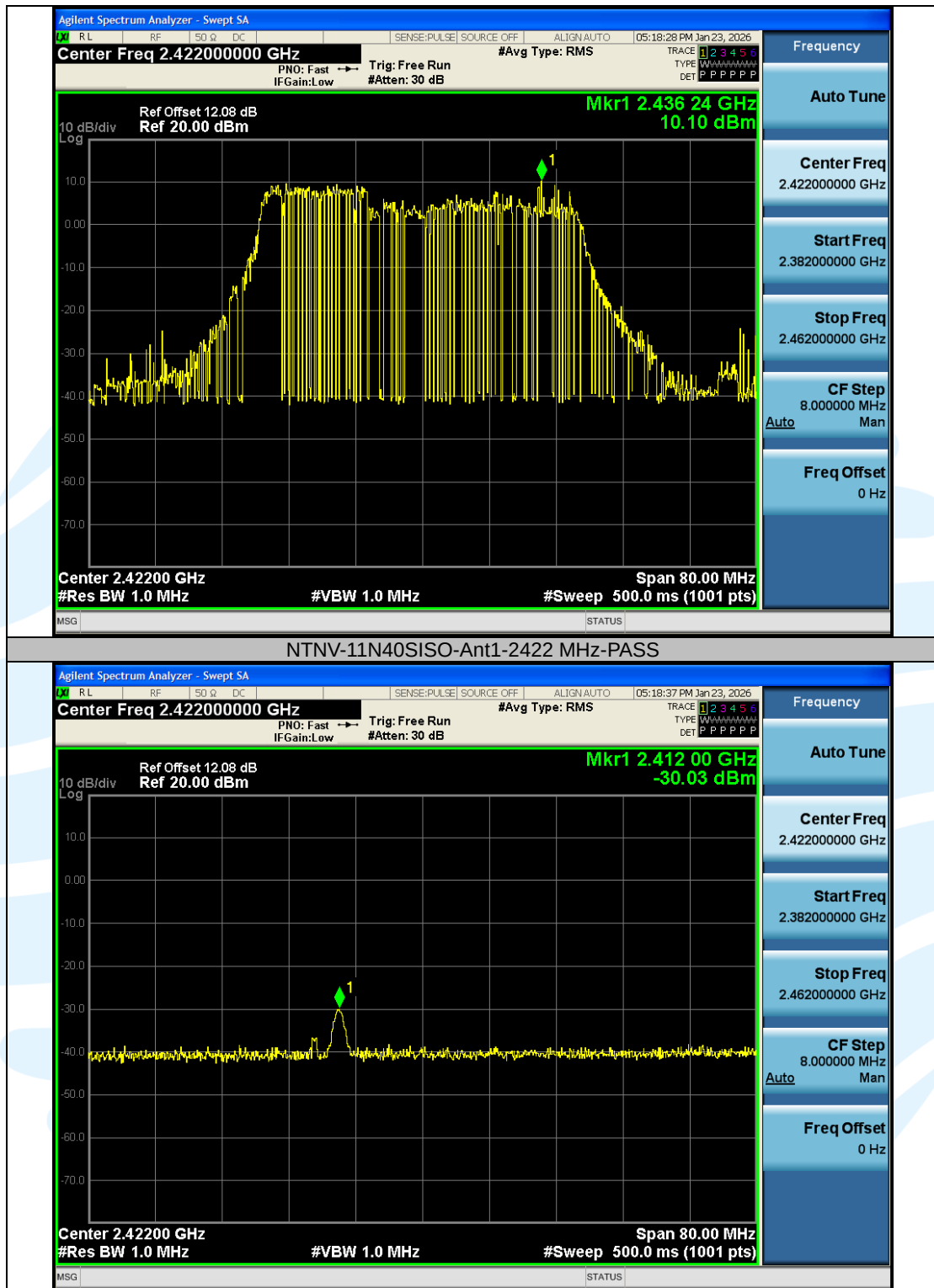
Test Condition	Test Mode	Antenna	Frequency [MHz]	Pcs [dBm]	Result	Verdict
NTNV	11N40SISO	Ant1	2422	-41.06	Good	PASS
NTNV	11N40SISO	Ant1	2442	-41.13	Good	PASS
NTNV	11N40SISO	Ant1	2462	-41.27	Good	PASS
NTNV	11AX40SISO	Ant1	2422	-41.06	Good	PASS
NTNV	11AX40SISO	Ant1	2442	-41.13	Good	PASS
NTNV	11AX40SISO	Ant1	2462	-41.27	Good	PASS

Note:

$Pcs (dBm) = 22.79 + G - 20\log(F)$.

G: Antenna gain 3.8 dBi.

F: Transmission frequency (MHz).



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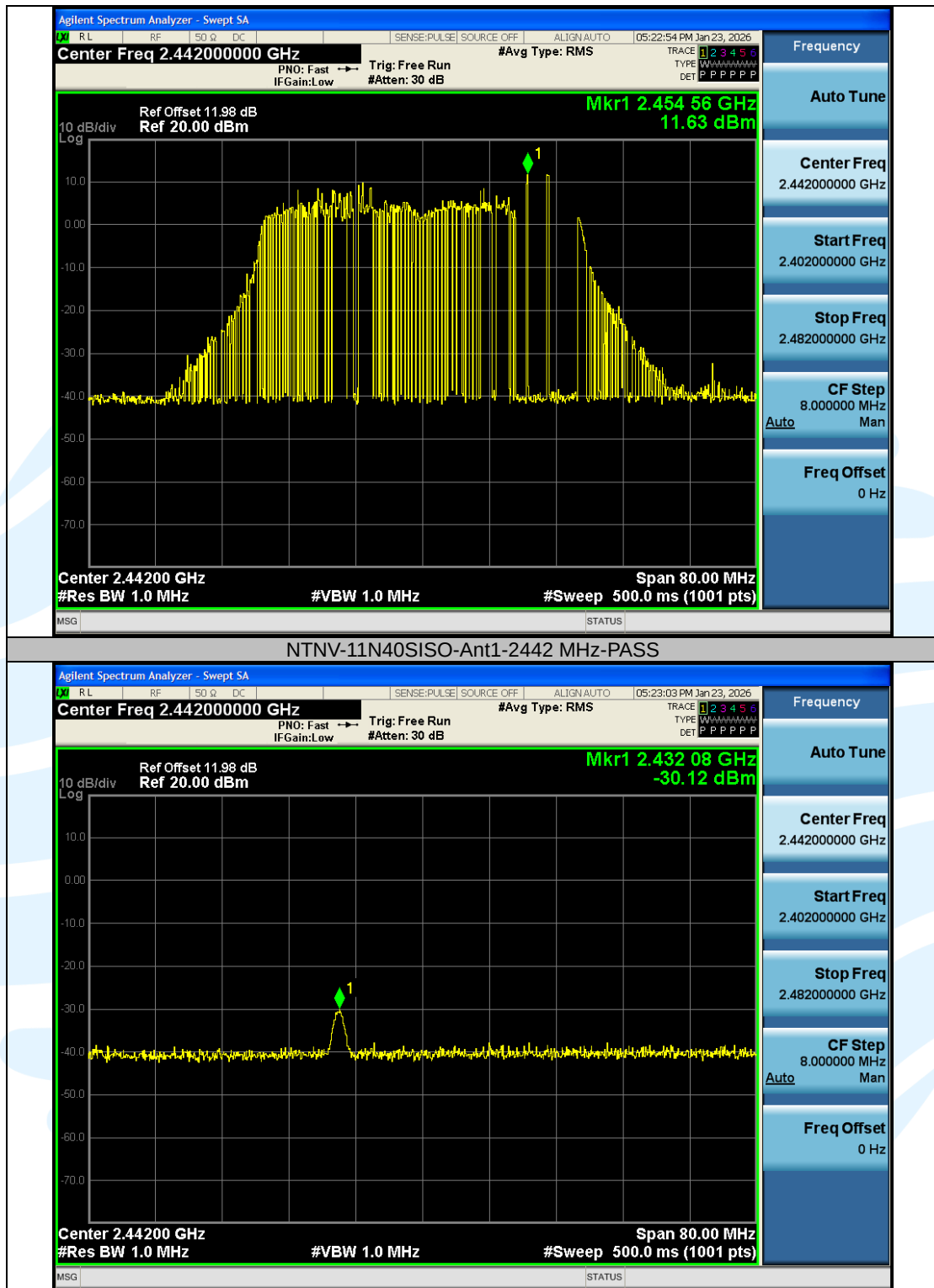
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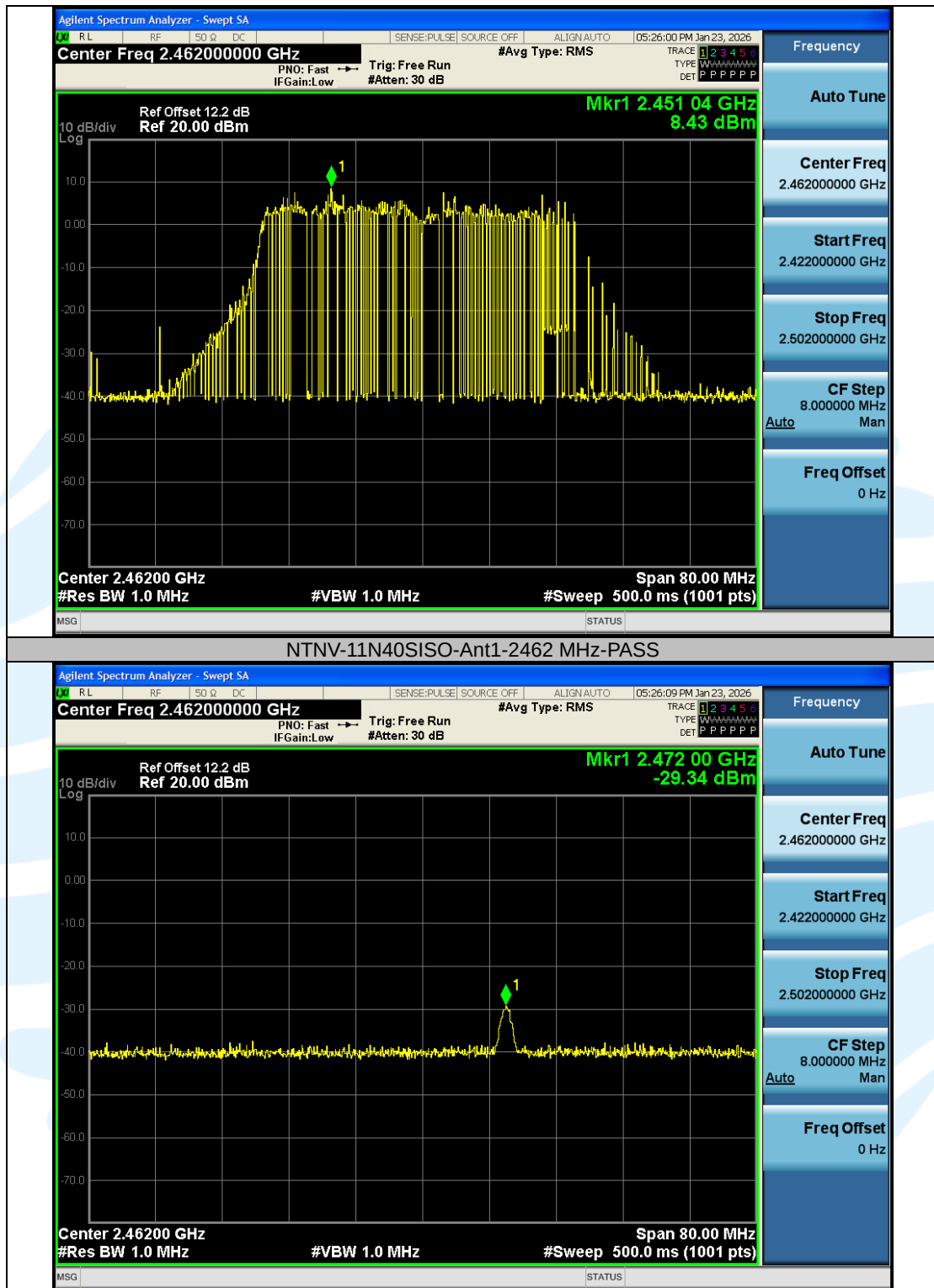
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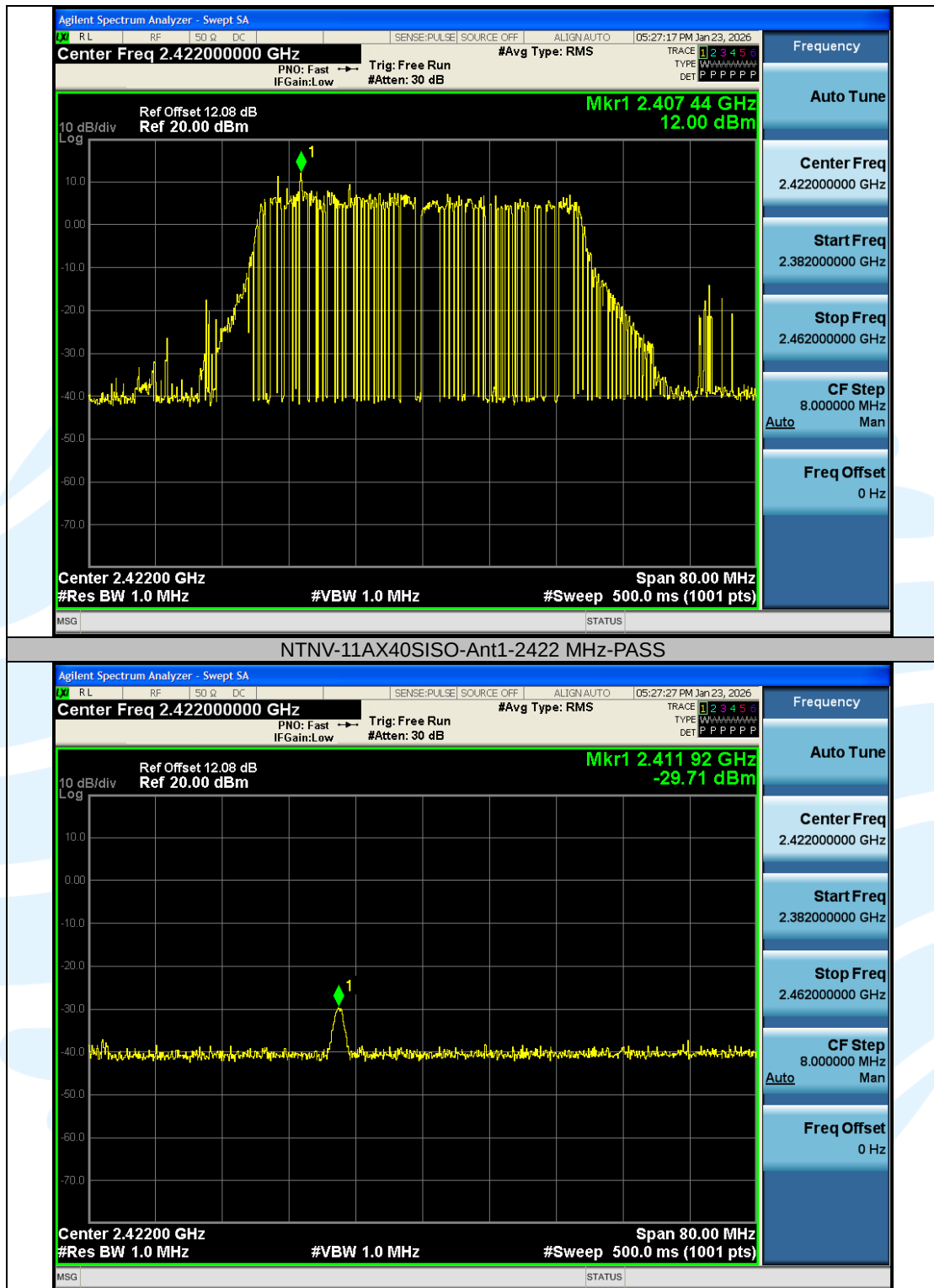
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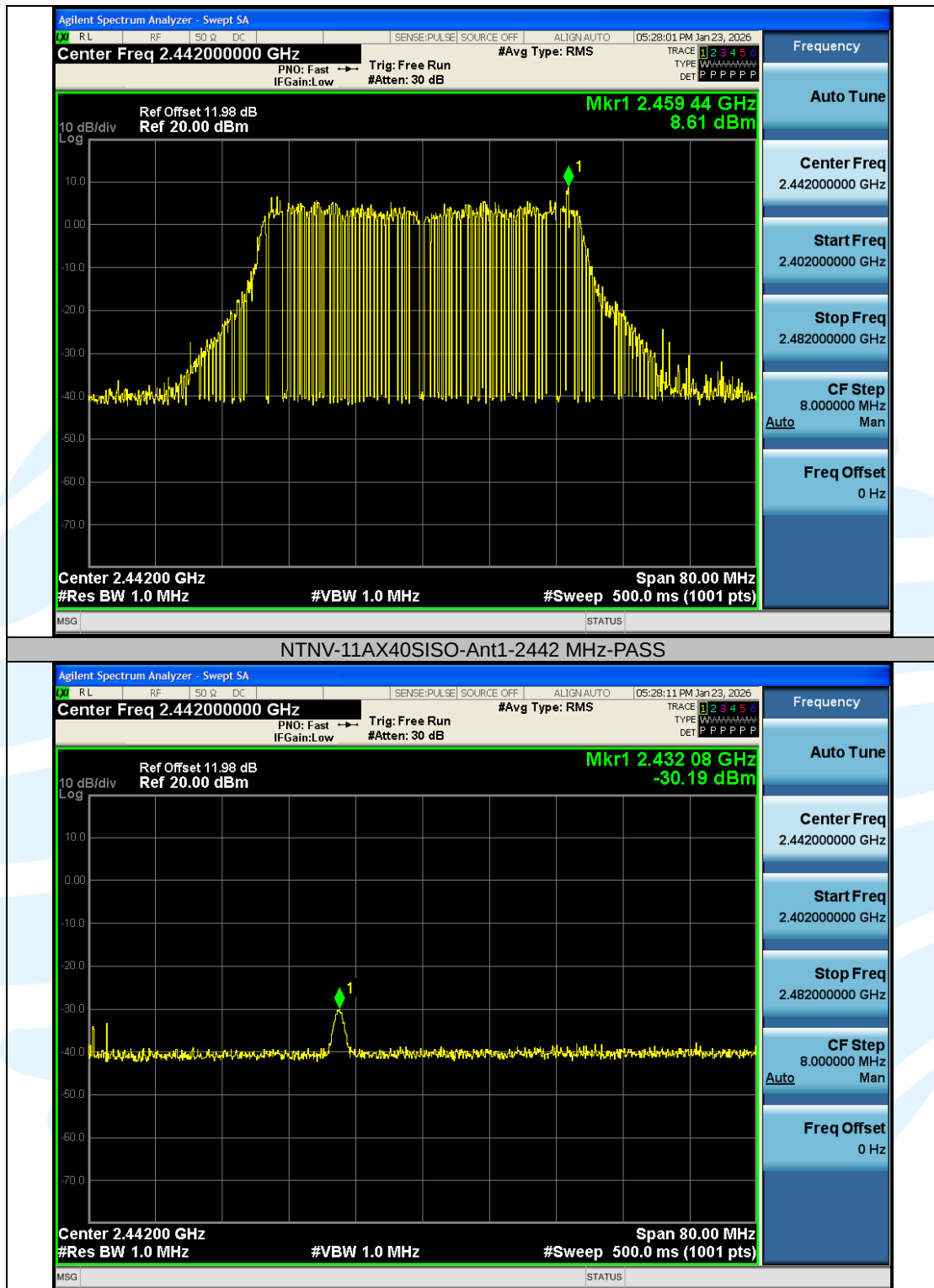
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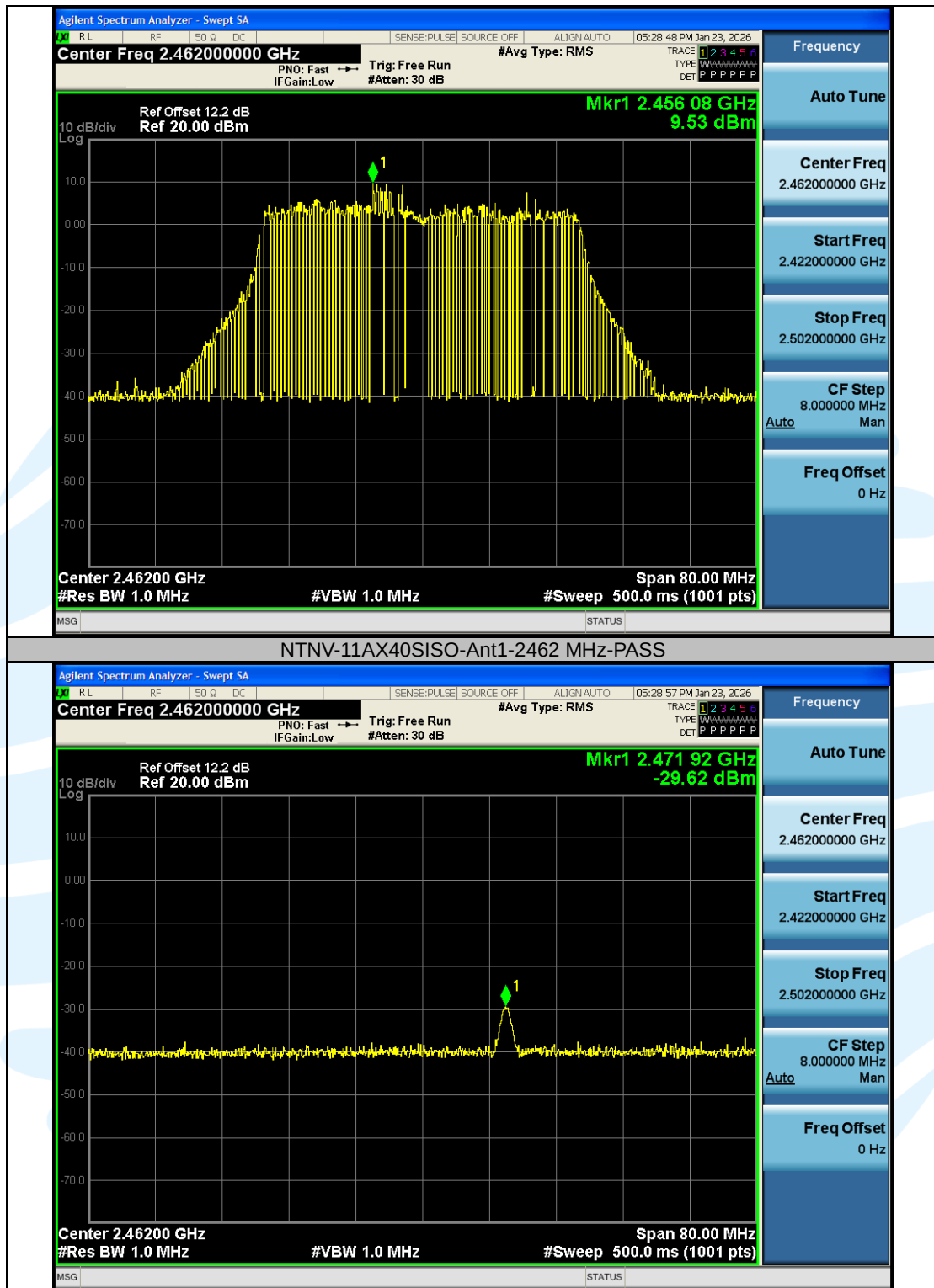
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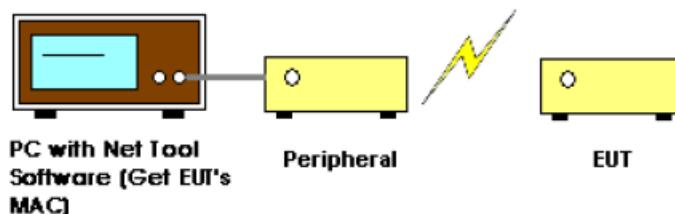
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5.10 INTERFERENCE PREVENTION FUNCTION

5.10.1 Limit

Identification code $\geq$ 48 bits

5.10.2 Test Setup



5.10.3 Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes from EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
 - a. Transmit the predetermined identification codes from the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes from the counterpart.
 - d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.10.4 Test Result

TX: The transmitting mode of EUT is on normal operating, the interference prevention function is okay.

RX: The receiving mode of EUT is on normal operating, the interference prevention function is okay.

The ID Code of this Wi-Fi device as below list:

Identification code
MAC Address: C4:0F:08:19:45:D8

5.11 CONSTRUCTION PROTECTION

5.11.1 Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

5.11.2 Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :

5.11.3 The Photos of Construction Protection



APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Refer to Appendix 1 for Test Setup photos.

APPENDIX 2 PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT photos.

*** End of Report ***

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