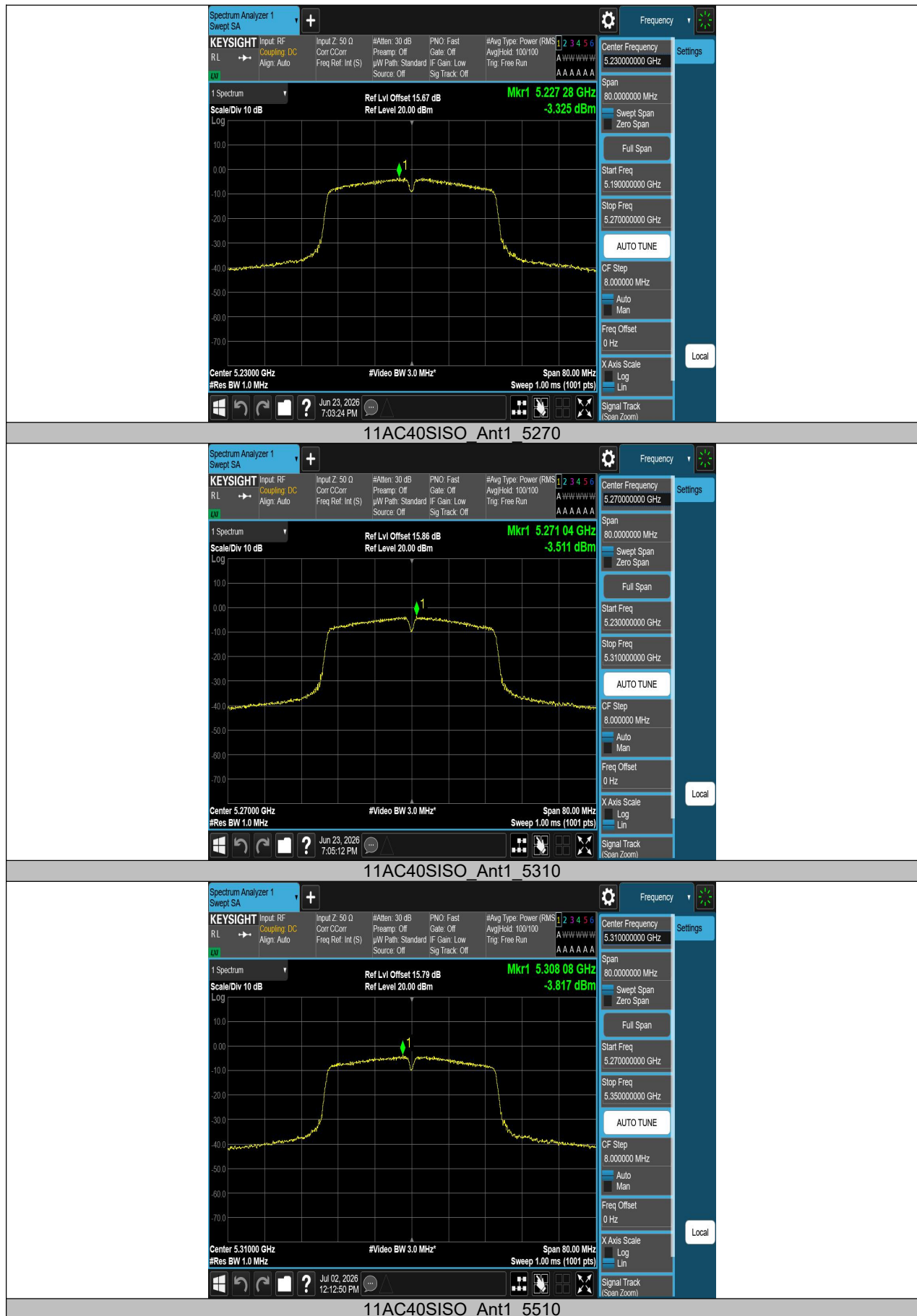
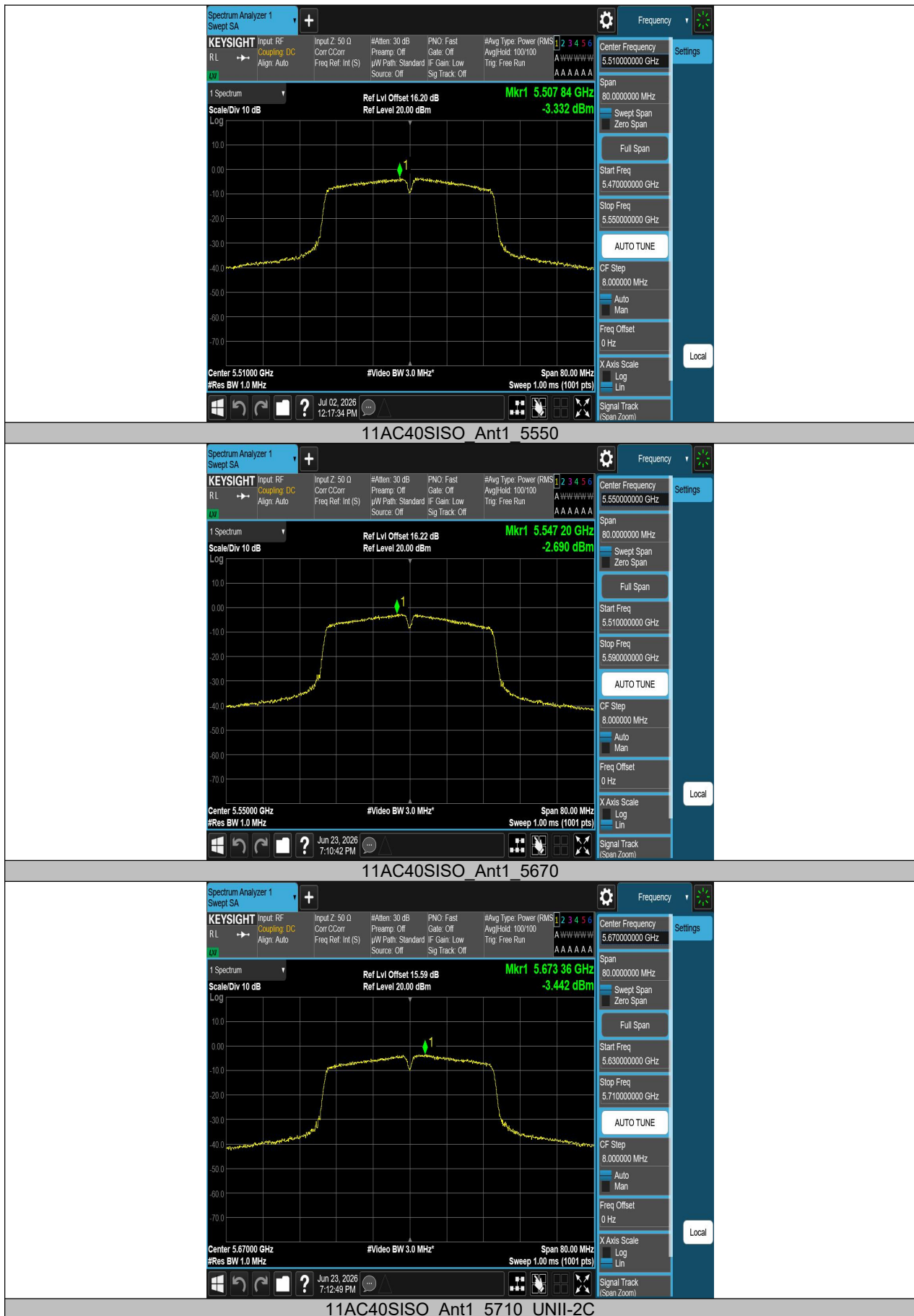
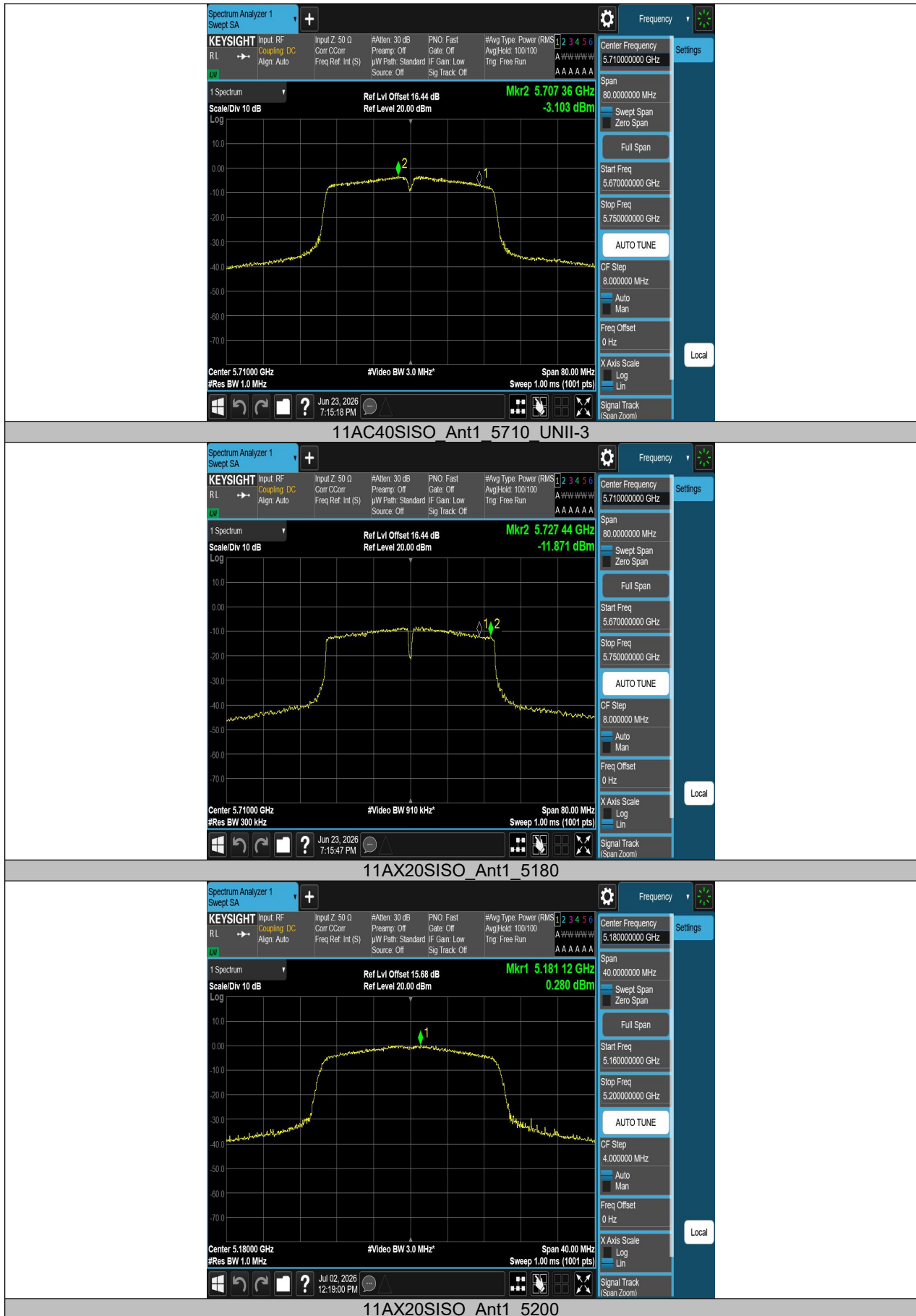
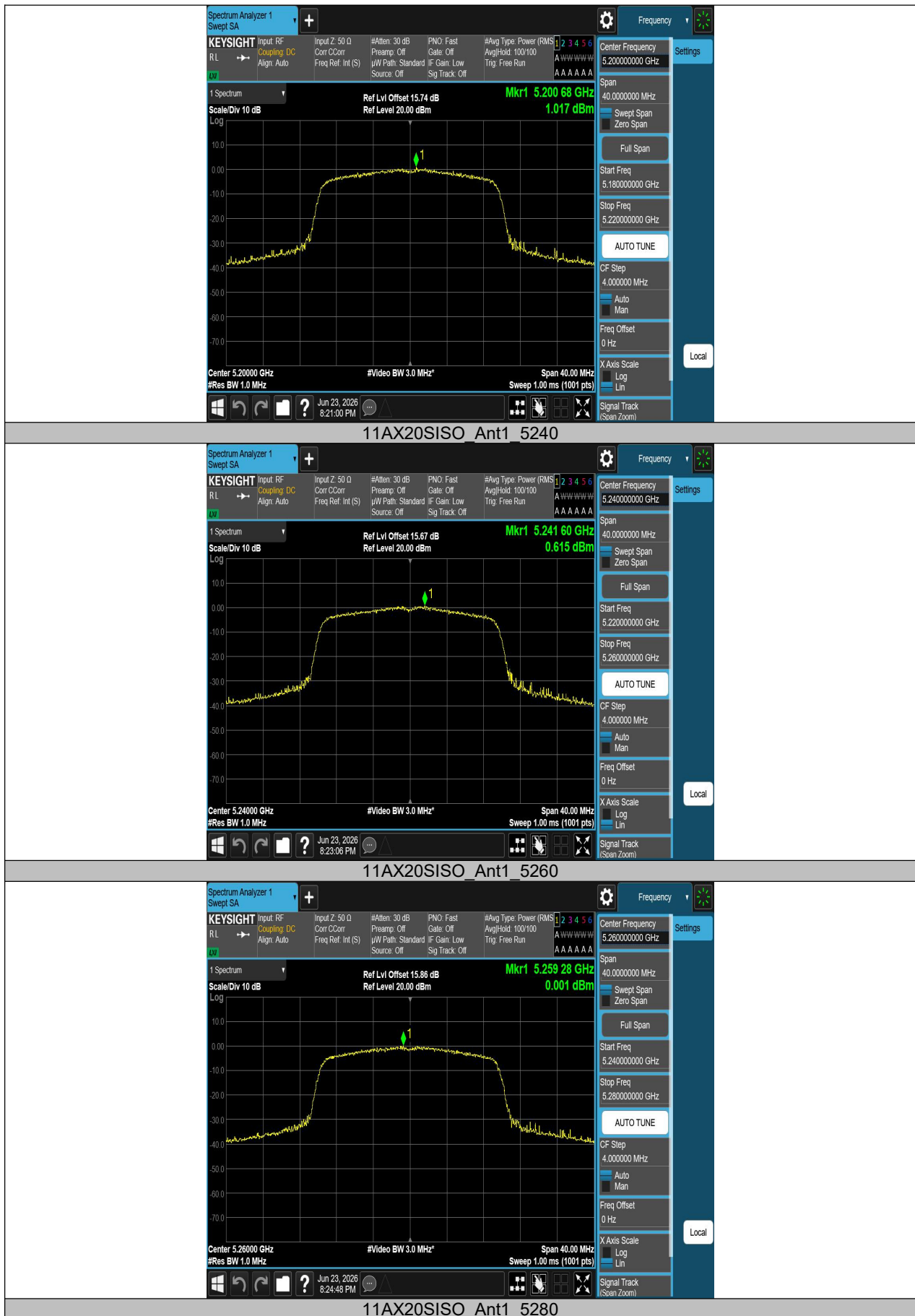
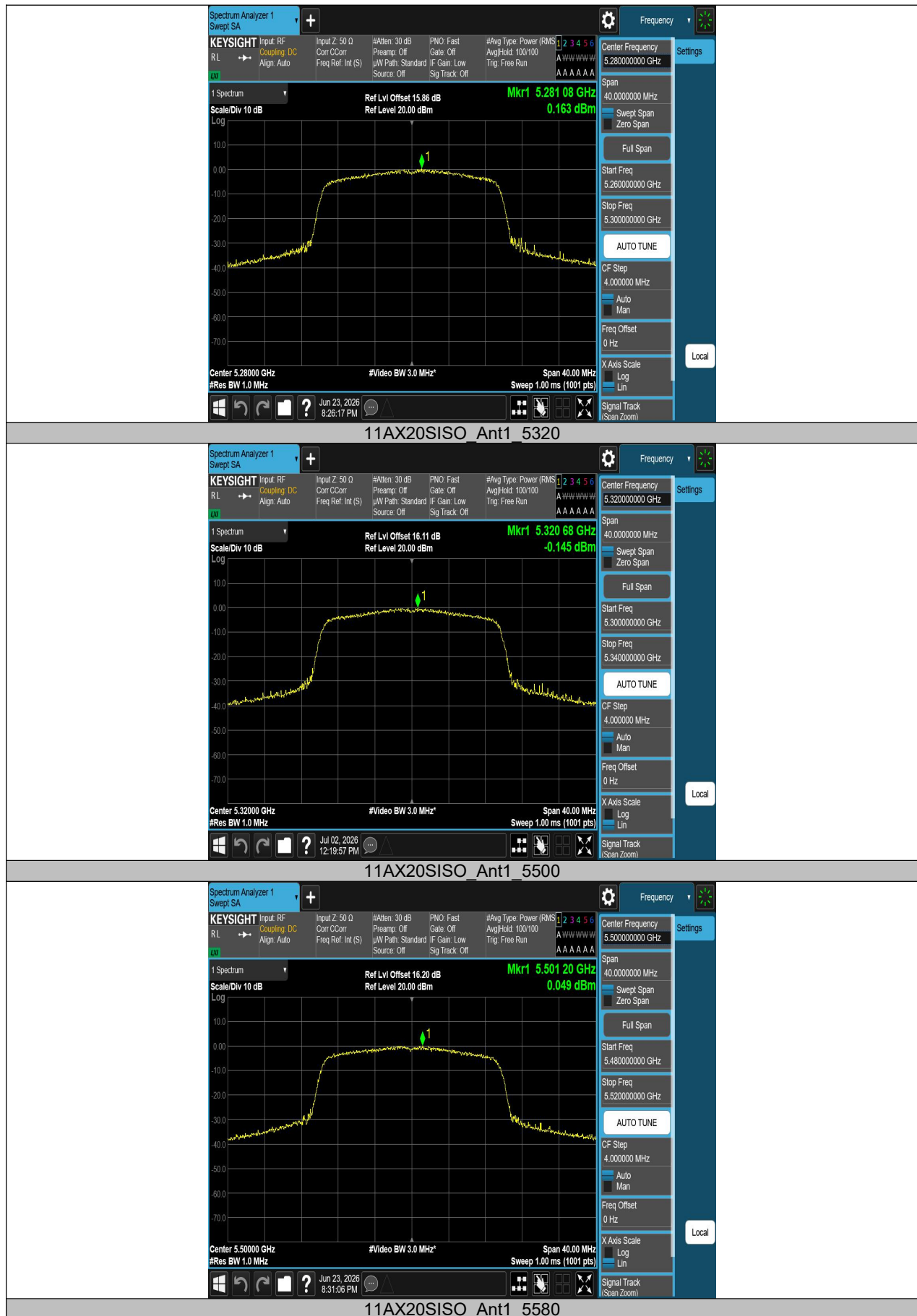


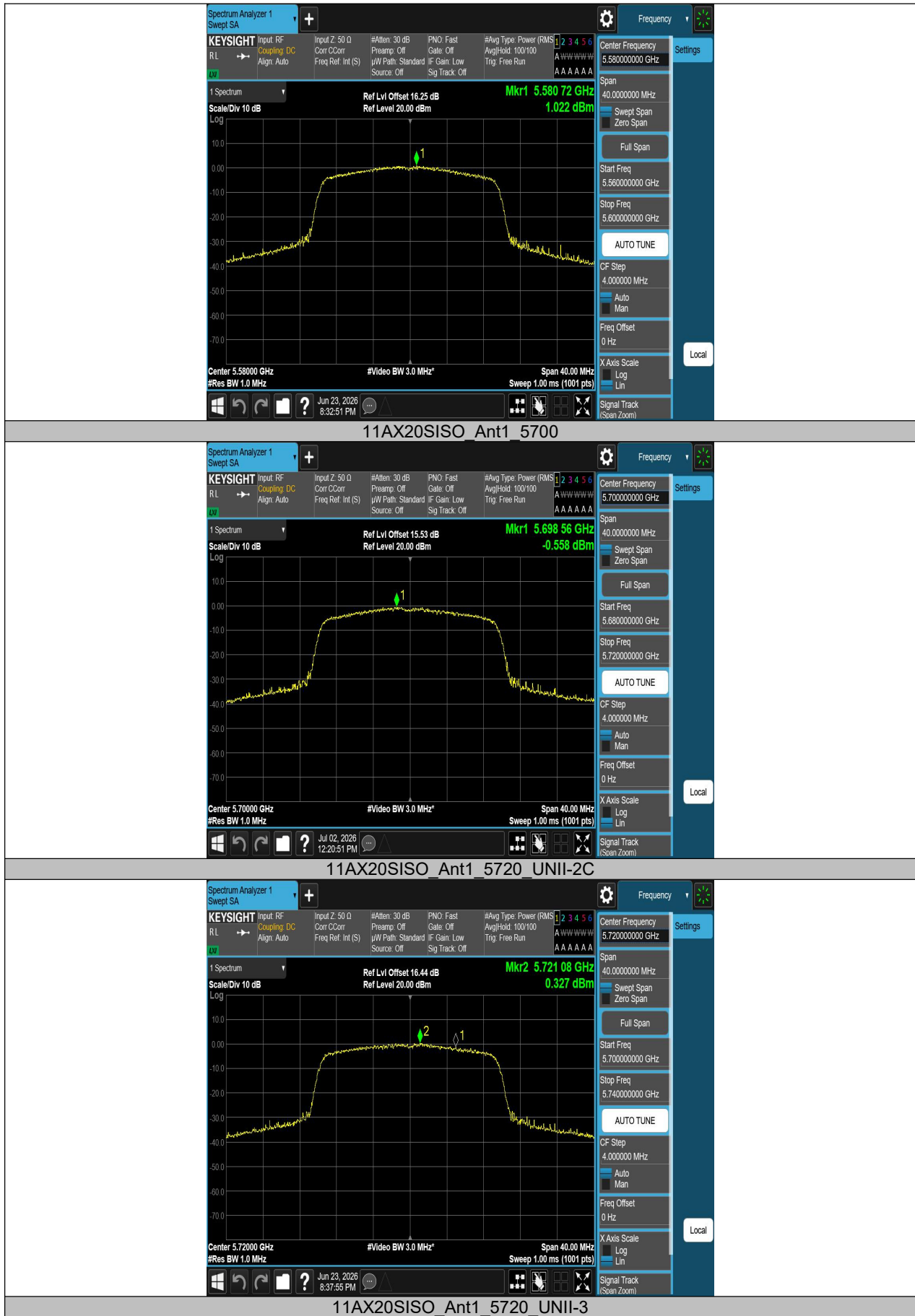


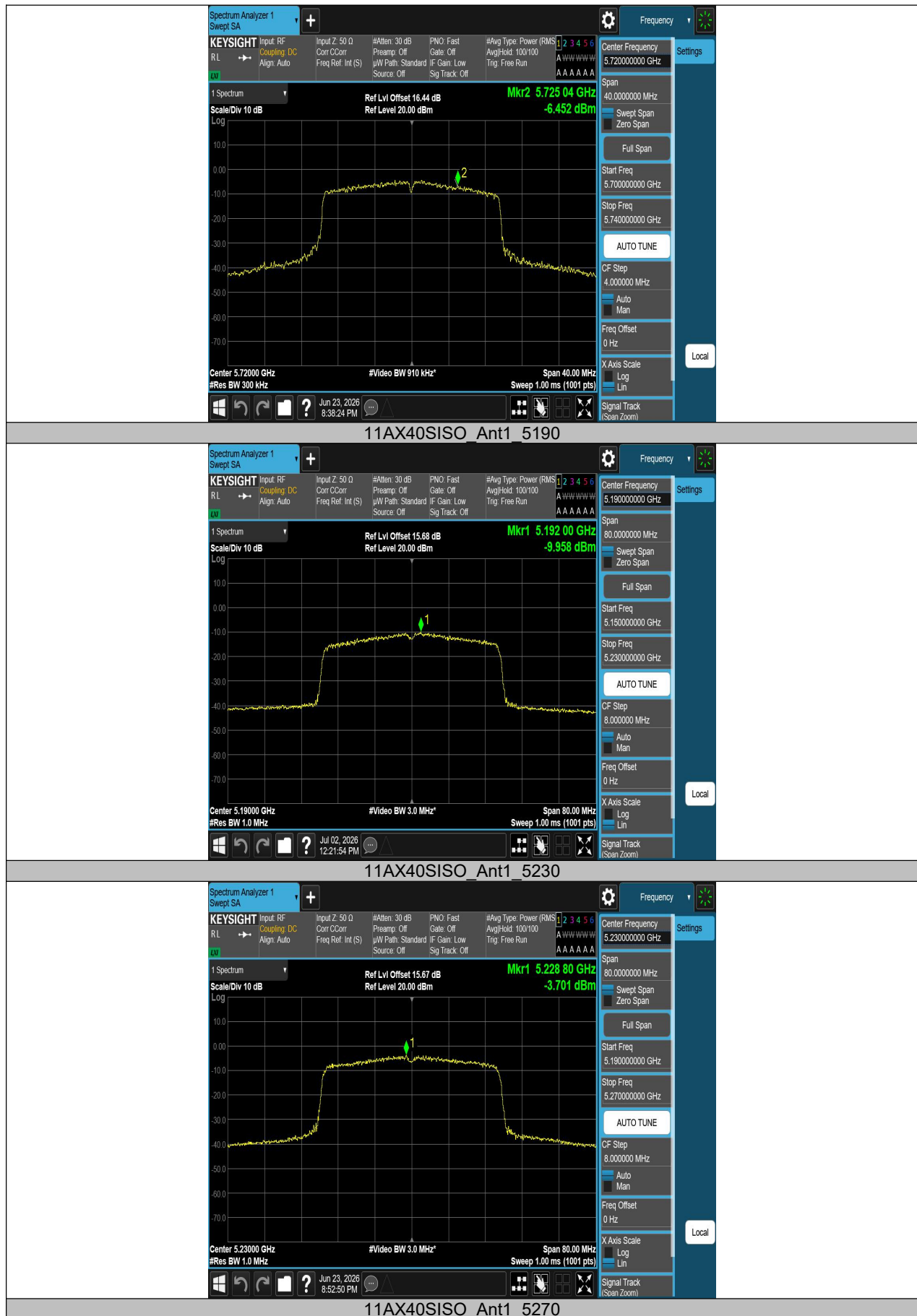


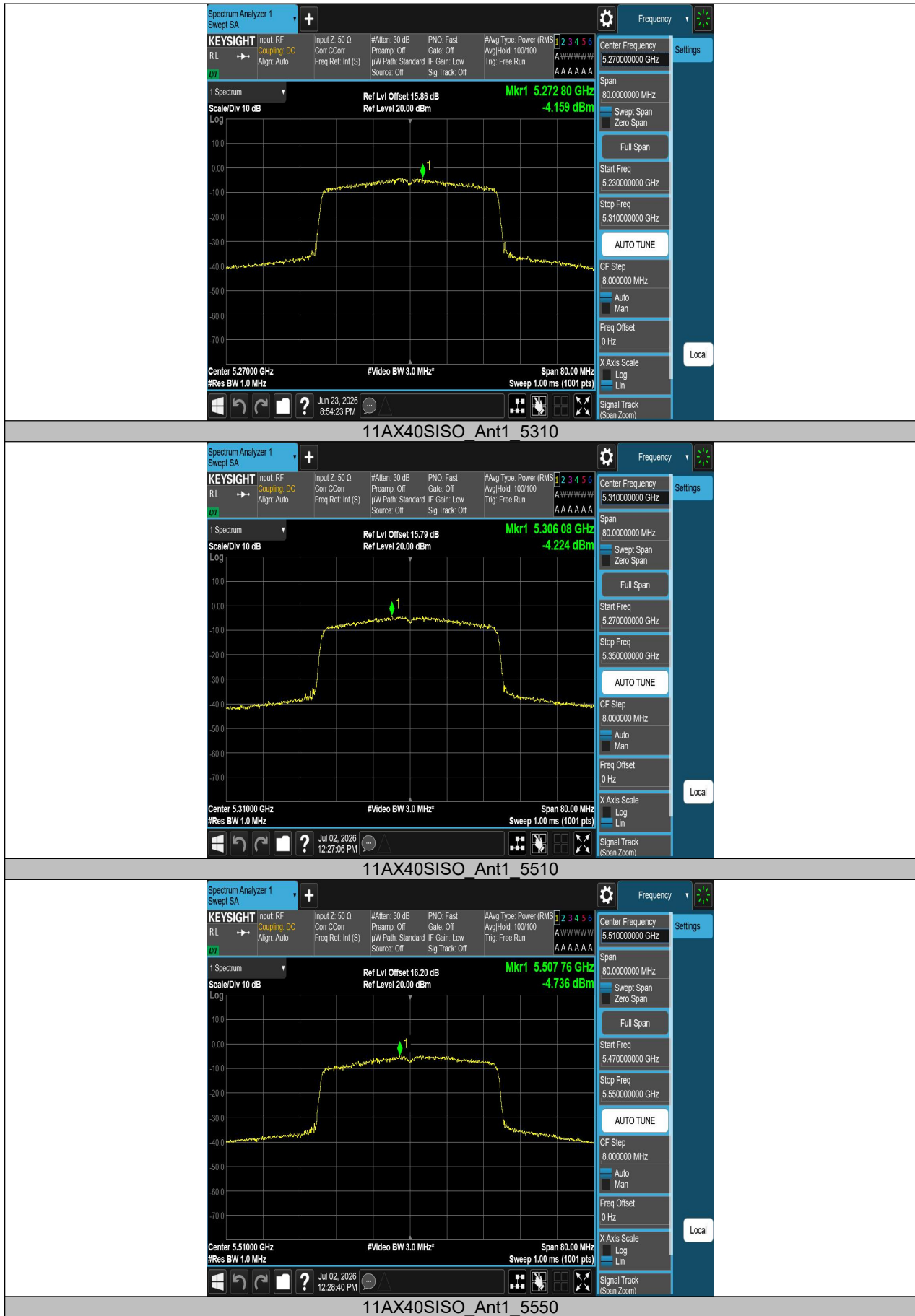


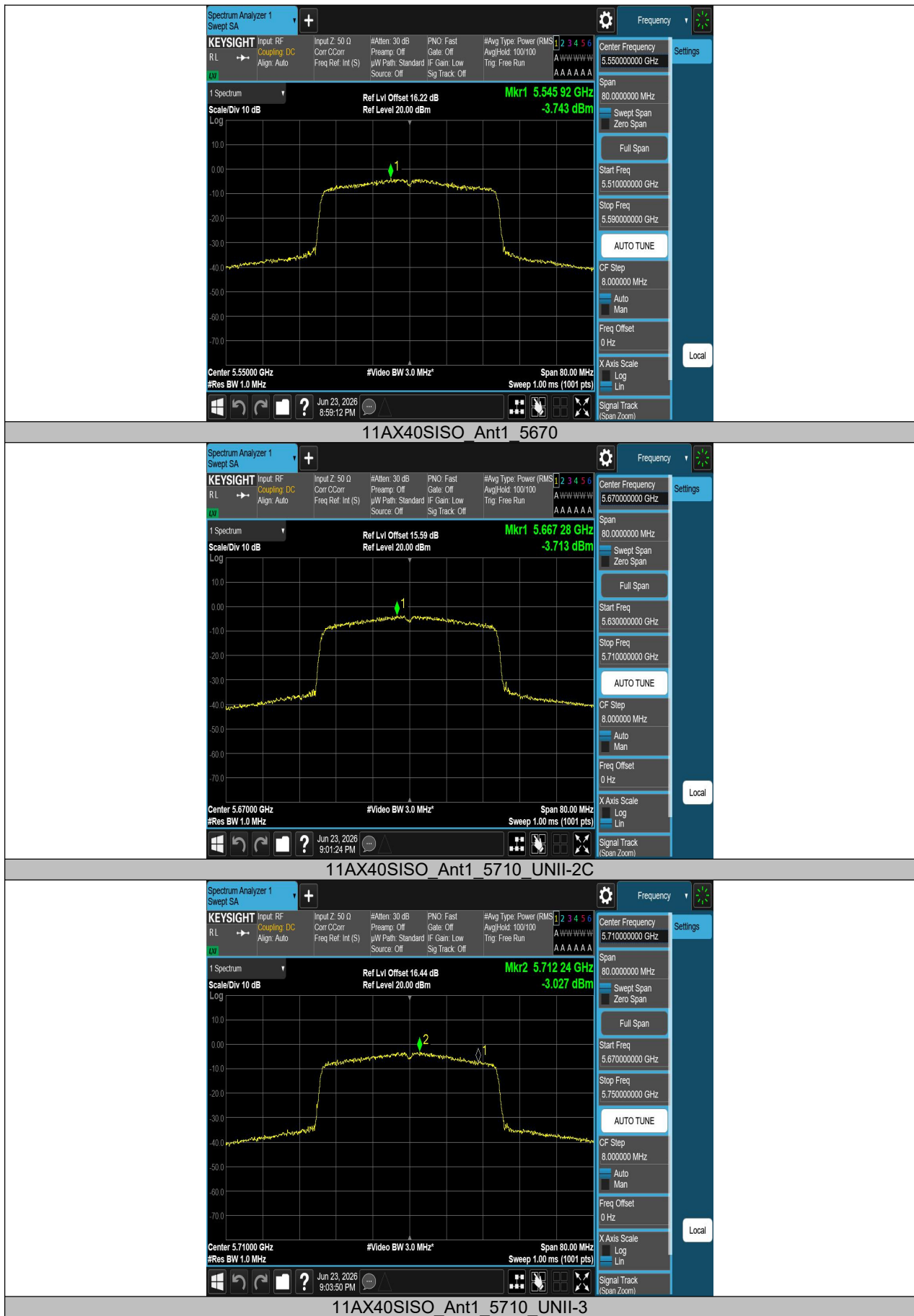


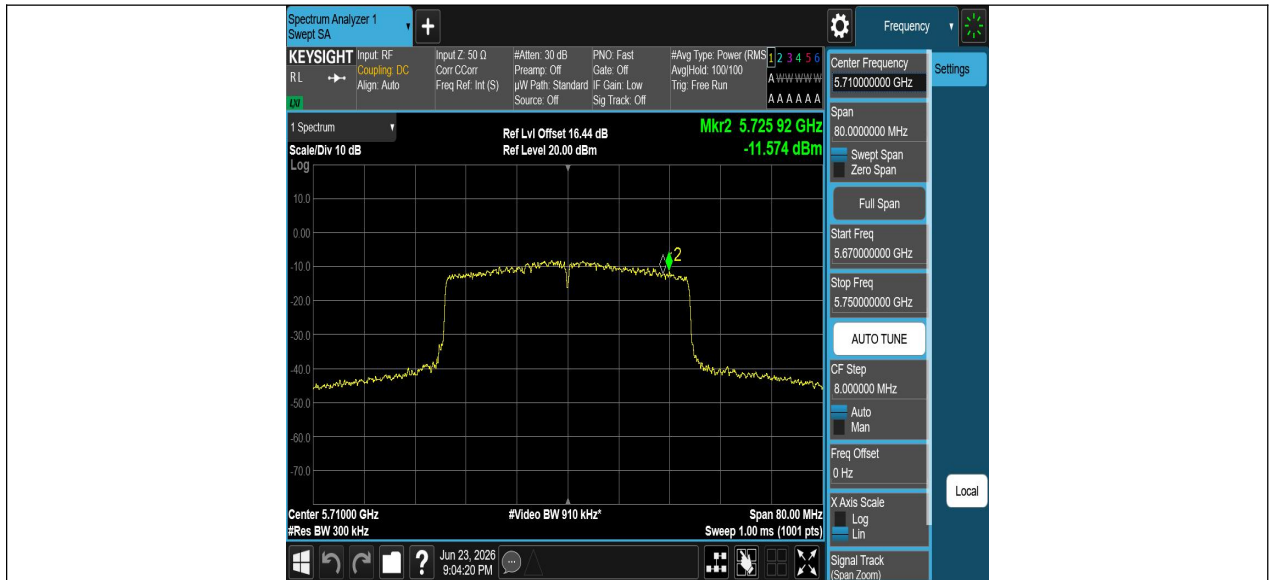












12. Frequency Stability Measurement

12.1. Block Diagram of Test Setup

Same as section 8.1

12.2. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

12.3. Test Procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.

(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

12.4. Test Result

Voltage								
Test Mode	Ant.	Freq. (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20SI SO	Ant1	5180	NV	NT	-37000.00	-7.142857	20	PASS
			LV	NT	-37000.00	-7.142857	20	PASS
			HV	NT	-37000.00	-7.142857	20	PASS
		5200	NV	NT	-37000.00	-7.115385	20	PASS
			LV	NT	-37000.00	-7.115385	20	PASS
			HV	NT	-37000.00	-7.115385	20	PASS
		5240	NV	NT	-37000.00	-7.061069	20	PASS
			LV	NT	-37000.00	-7.061069	20	PASS
			HV	NT	-37000.00	-7.061069	20	PASS
		5260	NV	NT	-38000.00	-7.224335	20	PASS
			LV	NT	-38000.00	-7.224335	20	PASS
			HV	NT	-37000.00	-7.034221	20	PASS
		5280	NV	NT	-37000.00	-7.007576	20	PASS
			LV	NT	-37000.00	-7.007576	20	PASS
			HV	NT	-37000.00	-7.007576	20	PASS
		5320	NV	NT	-37000.00	-6.954887	20	PASS
			LV	NT	-37000.00	-6.954887	20	PASS
			HV	NT	-38000.00	-7.142857	20	PASS
		5500	NV	NT	-39000.00	-7.090909	20	PASS
			LV	NT	-39000.00	-7.090909	20	PASS
			HV	NT	-38000.00	-6.909091	20	PASS
		5580	NV	NT	-39000.00	-6.989247	20	PASS
			LV	NT	-39000.00	-6.989247	20	PASS
			HV	NT	-39000.00	-6.989247	20	PASS
		5700	NV	NT	-39000.00	-6.842105	20	PASS
			LV	NT	-40000.00	-7.017544	20	PASS
			HV	NT	-40000.00	-7.017544	20	PASS
		5720	NV	NT	-42000.00	-7.342657	20	PASS
			LV	NT	-42000.00	-7.342657	20	PASS
			HV	NT	-41000.00	-7.167832	20	PASS
		5745	NV	NT	-40000.00	-6.962576	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-41000.00	-7.136641	20	PASS
		5785	NV	NT	-42000.00	-7.260156	20	PASS
			LV	NT	-41000.00	-7.087295	20	PASS

		5825	HV	NT	-42000.00	-7.260156	20	PASS
			NV	NT	-35000.00	-6.008584	20	PASS
			LV	NT	-36000.00	-6.180258	20	PASS
			HV	NT	-36000.00	-6.180258	20	PASS
11AX40SI SO	Ant1	5190	NV	NT	-34000.00	-6.551060	20	PASS
			LV	NT	-33000.00	-6.358382	20	PASS
			HV	NT	-34000.00	-6.551060	20	PASS
		5230	NV	NT	-35000.00	-6.692161	20	PASS
			LV	NT	-35000.00	-6.692161	20	PASS
			HV	NT	-35000.00	-6.692161	20	PASS
		5270	NV	NT	-35000.00	-6.641366	20	PASS
			LV	NT	-35000.00	-6.641366	20	PASS
			HV	NT	-35000.00	-6.641366	20	PASS
		5310	NV	NT	-35000.00	-6.591337	20	PASS
			LV	NT	-35000.00	-6.591337	20	PASS
			HV	NT	-35000.00	-6.591337	20	PASS
		5510	NV	NT	-37000.00	-6.715064	20	PASS
			LV	NT	-36000.00	-6.533575	20	PASS
			HV	NT	-37000.00	-6.715064	20	PASS
		5550	NV	NT	-37000.00	-6.666667	20	PASS
			LV	NT	-37000.00	-6.666667	20	PASS
			HV	NT	-37000.00	-6.666667	20	PASS
		5670	NV	NT	-38000.00	-6.701940	20	PASS
			LV	NT	-38000.00	-6.701940	20	PASS
			HV	NT	-39000.00	-6.878307	20	PASS
		5710	NV	NT	-38000.00	-6.654991	20	PASS
			LV	NT	-39000.00	-6.830123	20	PASS
			HV	NT	-39000.00	-6.830123	20	PASS
		5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-39000.00	-6.776716	20	PASS
		5795	NV	NT	-39000.00	-6.729940	20	PASS
			LV	NT	-39000.00	-6.729940	20	PASS
			HV	NT	-39000.00	-6.729940	20	PASS

Temperature								
Test Mode	Ant.	Freq. (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20SI SO	Ant1	5180	NV	-30	-37000.00	-7.142857	20	PASS
			NV	-20	-37000.00	-7.142857	20	PASS
			NV	-10	-37000.00	-7.142857	20	PASS
			NV	0	-37000.00	-7.142857	20	PASS
			NV	10	-37000.00	-7.142857	20	PASS
			NV	20	-37000.00	-7.142857	20	PASS
			NV	30	-37000.00	-7.142857	20	PASS
			NV	40	-36000.00	-6.949807	20	PASS
		5200	NV	50	-37000.00	-7.142857	20	PASS
			NV	-30	-37000.00	-7.115385	20	PASS
			NV	-20	-37000.00	-7.115385	20	PASS
			NV	-10	-37000.00	-7.115385	20	PASS
			NV	0	-37000.00	-7.115385	20	PASS
			NV	10	-37000.00	-7.115385	20	PASS
			NV	20	-37000.00	-7.115385	20	PASS
			NV	30	-37000.00	-7.115385	20	PASS
		5240	NV	40	-37000.00	-7.115385	20	PASS
			NV	50	-37000.00	-7.115385	20	PASS
			NV	-30	-37000.00	-7.061069	20	PASS
			NV	-20	-37000.00	-7.061069	20	PASS
			NV	-10	-37000.00	-7.061069	20	PASS
			NV	0	-37000.00	-7.061069	20	PASS
			NV	10	-37000.00	-7.061069	20	PASS
			NV	20	-37000.00	-7.061069	20	PASS
			NV	30	-37000.00	-7.061069	20	PASS
			NV	40	-36000.00	-6.870229	20	PASS
			NV	50	-37000.00	-7.061069	20	PASS

5260	NV	-30	-37000.00	-7.034221	20	PASS
	NV	-20	-37000.00	-7.034221	20	PASS
	NV	-10	-37000.00	-7.034221	20	PASS
	NV	0	-38000.00	-7.224335	20	PASS
	NV	10	-37000.00	-7.034221	20	PASS
	NV	20	-37000.00	-7.034221	20	PASS
	NV	30	-37000.00	-7.034221	20	PASS
	NV	40	-37000.00	-7.034221	20	PASS
5280	NV	50	-37000.00	-7.034221	20	PASS
	NV	-30	-37000.00	-7.007576	20	PASS
	NV	-20	-37000.00	-7.007576	20	PASS
	NV	-10	-37000.00	-7.007576	20	PASS
	NV	0	-37000.00	-7.007576	20	PASS
	NV	10	-37000.00	-7.007576	20	PASS
	NV	20	-37000.00	-7.007576	20	PASS
	NV	30	-37000.00	-7.007576	20	PASS
5320	NV	40	-37000.00	-7.007576	20	PASS
	NV	50	-37000.00	-7.007576	20	PASS
	NV	-30	-37000.00	-6.954887	20	PASS
	NV	-20	-37000.00	-6.954887	20	PASS
	NV	-10	-38000.00	-7.142857	20	PASS
	NV	0	-37000.00	-6.954887	20	PASS
	NV	10	-37000.00	-6.954887	20	PASS
	NV	20	-37000.00	-6.954887	20	PASS
5500	NV	30	-37000.00	-6.954887	20	PASS
	NV	40	-37000.00	-6.954887	20	PASS
	NV	50	-37000.00	-6.954887	20	PASS
	NV	-30	-39000.00	-7.090909	20	PASS
	NV	-20	-39000.00	-7.090909	20	PASS
	NV	-10	-39000.00	-7.090909	20	PASS
	NV	0	-38000.00	-6.909091	20	PASS
	NV	10	-39000.00	-7.090909	20	PASS
5580	NV	20	-38000.00	-6.909091	20	PASS
	NV	30	-39000.00	-7.090909	20	PASS
	NV	40	-39000.00	-7.090909	20	PASS
	NV	50	-39000.00	-7.090909	20	PASS
	NV	-30	-39000.00	-6.989247	20	PASS
	NV	-20	-39000.00	-6.989247	20	PASS
	NV	-10	-39000.00	-6.989247	20	PASS
	NV	0	-39000.00	-6.989247	20	PASS
5700	NV	10	-39000.00	-6.989247	20	PASS
	NV	20	-39000.00	-6.989247	20	PASS
	NV	30	-39000.00	-6.989247	20	PASS
	NV	40	-39000.00	-6.989247	20	PASS
	NV	50	-39000.00	-6.989247	20	PASS
	NV	-30	-39000.00	-6.842105	20	PASS
	NV	-20	-39000.00	-6.842105	20	PASS
	NV	-10	-39000.00	-6.842105	20	PASS
5720	NV	0	-40000.00	-7.017544	20	PASS
	NV	10	-39000.00	-6.842105	20	PASS
	NV	20	-40000.00	-7.017544	20	PASS
	NV	30	-40000.00	-7.017544	20	PASS
	NV	40	-40000.00	-7.017544	20	PASS
	NV	50	-39000.00	-6.842105	20	PASS
	NV	-30	-41000.00	-7.167832	20	PASS
	NV	-20	-41000.00	-7.167832	20	PASS
5745	NV	-10	-41000.00	-7.167832	20	PASS
	NV	0	-41000.00	-7.167832	20	PASS
	NV	10	-41000.00	-7.167832	20	PASS
	NV	20	-41000.00	-7.167832	20	PASS
	NV	30	-41000.00	-7.167832	20	PASS
	NV	40	-40000.00	-6.993007	20	PASS
	NV	50	-41000.00	-7.167832	20	PASS
	NV	-30	-41000.00	-7.136641	20	PASS
5745	NV	-20	-41000.00	-7.136641	20	PASS
	NV	-10	-41000.00	-7.136641	20	PASS
	NV	0	-40000.00	-6.962576	20	PASS

			NV	10	-40000.00	-6.962576	20	PASS
			NV	20	-40000.00	-6.962576	20	PASS
			NV	30	-41000.00	-7.136641	20	PASS
			NV	40	-41000.00	-7.136641	20	PASS
			NV	50	-41000.00	-7.136641	20	PASS
		5785	NV	-30	-41000.00	-7.087295	20	PASS
			NV	-20	-41000.00	-7.087295	20	PASS
			NV	-10	-41000.00	-7.087295	20	PASS
			NV	0	-41000.00	-7.087295	20	PASS
			NV	10	-41000.00	-7.087295	20	PASS
			NV	20	-41000.00	-7.087295	20	PASS
			NV	30	-41000.00	-7.087295	20	PASS
			NV	40	-41000.00	-7.087295	20	PASS
			NV	50	-41000.00	-7.087295	20	PASS
		5825	NV	-30	-36000.00	-6.180258	20	PASS
			NV	-20	-37000.00	-6.351931	20	PASS
			NV	-10	-37000.00	-6.351931	20	PASS
			NV	0	-37000.00	-6.351931	20	PASS
			NV	10	-37000.00	-6.351931	20	PASS
			NV	20	-37000.00	-6.351931	20	PASS
			NV	30	-38000.00	-6.523605	20	PASS
			NV	40	-37000.00	-6.351931	20	PASS
			NV	50	-38000.00	-6.523605	20	PASS
11AX40SI SO	Ant1	5190	NV	-30	-34000.00	-6.551060	20	PASS
			NV	-20	-34000.00	-6.551060	20	PASS
			NV	-10	-34000.00	-6.551060	20	PASS
			NV	0	-34000.00	-6.551060	20	PASS
			NV	10	-35000.00	-6.743738	20	PASS
			NV	20	-34000.00	-6.551060	20	PASS
			NV	30	-34000.00	-6.551060	20	PASS
			NV	40	-34000.00	-6.551060	20	PASS
			NV	50	-34000.00	-6.551060	20	PASS
		5230	NV	-30	-35000.00	-6.692161	20	PASS
			NV	-20	-35000.00	-6.692161	20	PASS
			NV	-10	-35000.00	-6.692161	20	PASS
			NV	0	-35000.00	-6.692161	20	PASS
			NV	10	-35000.00	-6.692161	20	PASS
			NV	20	-35000.00	-6.692161	20	PASS
			NV	30	-35000.00	-6.692161	20	PASS
			NV	40	-35000.00	-6.692161	20	PASS
			NV	50	-35000.00	-6.692161	20	PASS
		5270	NV	-30	-35000.00	-6.641366	20	PASS
			NV	-20	-35000.00	-6.641366	20	PASS
			NV	-10	-35000.00	-6.641366	20	PASS
			NV	0	-35000.00	-6.641366	20	PASS
			NV	10	-35000.00	-6.641366	20	PASS
			NV	20	-35000.00	-6.641366	20	PASS
			NV	30	-36000.00	-6.831120	20	PASS
			NV	40	-35000.00	-6.641366	20	PASS
			NV	50	-36000.00	-6.831120	20	PASS
		5310	NV	-30	-36000.00	-6.779661	20	PASS
			NV	-20	-35000.00	-6.591337	20	PASS
			NV	-10	-36000.00	-6.779661	20	PASS
			NV	0	-36000.00	-6.779661	20	PASS
			NV	10	-36000.00	-6.779661	20	PASS
			NV	20	-36000.00	-6.779661	20	PASS
			NV	30	-36000.00	-6.779661	20	PASS
			NV	40	-35000.00	-6.591337	20	PASS
			NV	50	-36000.00	-6.779661	20	PASS
		5510	NV	-30	-37000.00	-6.715064	20	PASS
			NV	-20	-38000.00	-6.896552	20	PASS
			NV	-10	-37000.00	-6.715064	20	PASS
			NV	0	-37000.00	-6.715064	20	PASS
			NV	10	-37000.00	-6.715064	20	PASS
			NV	20	-37000.00	-6.715064	20	PASS
			NV	30	-37000.00	-6.715064	20	PASS
			NV	40	-37000.00	-6.715064	20	PASS