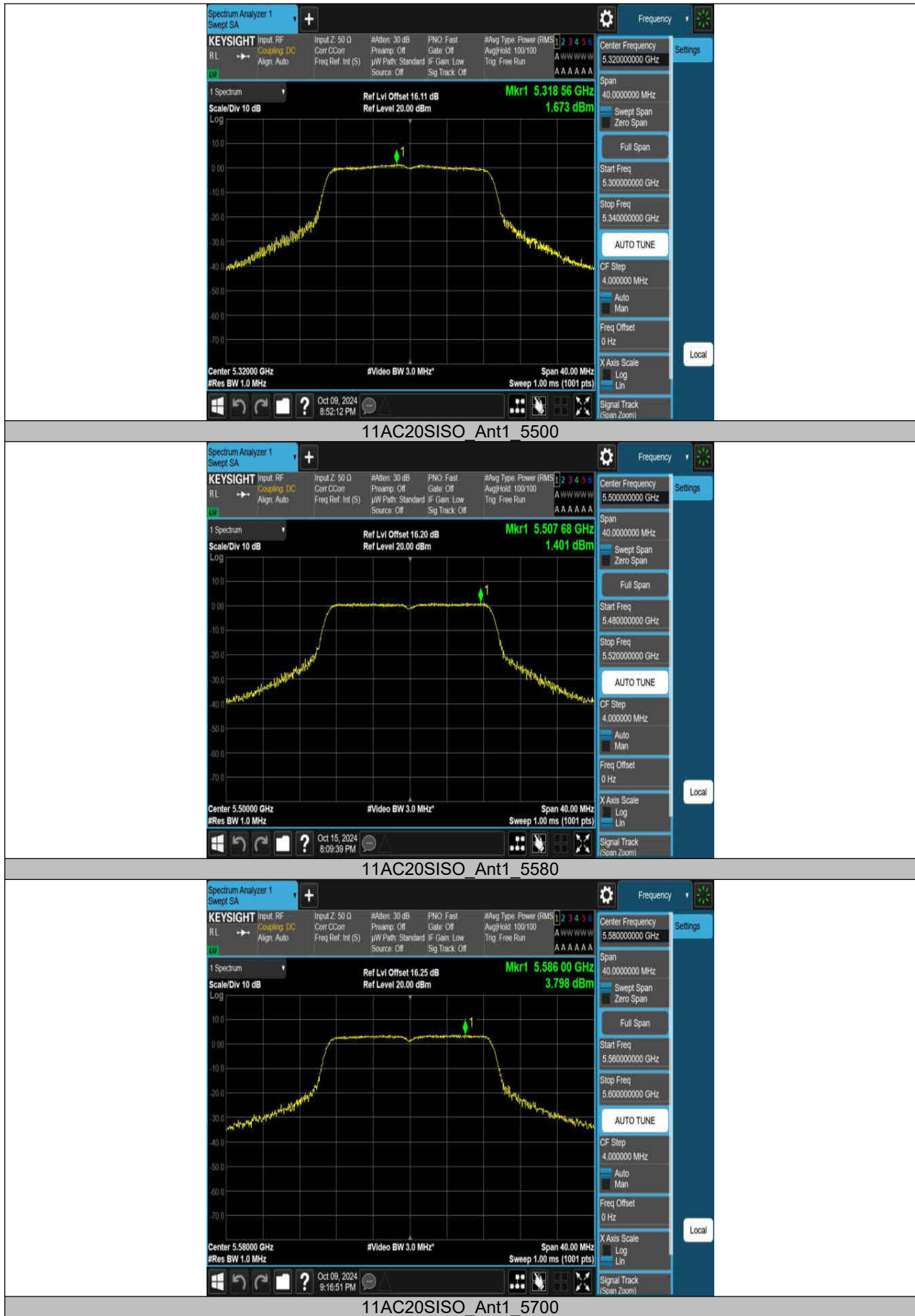
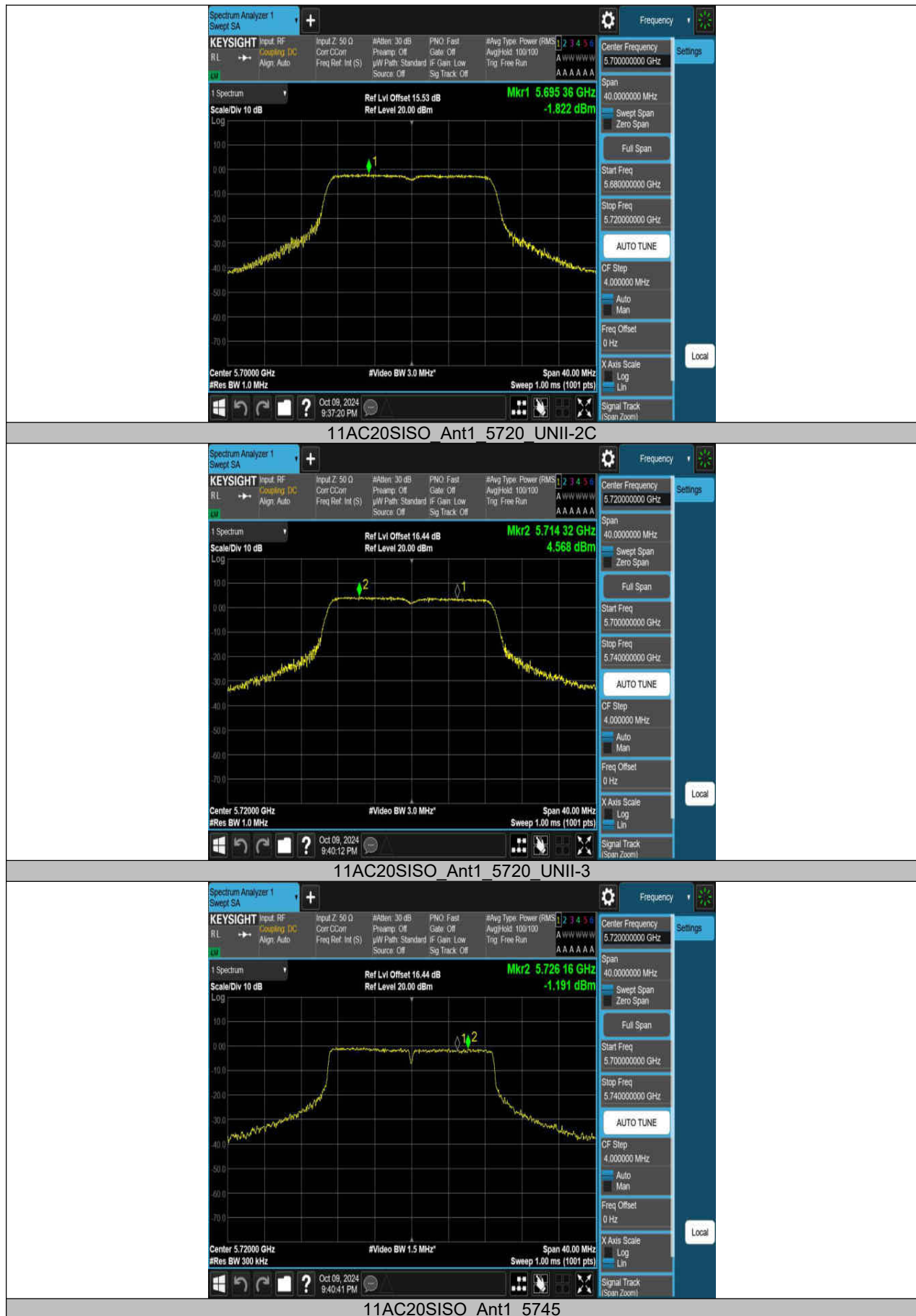
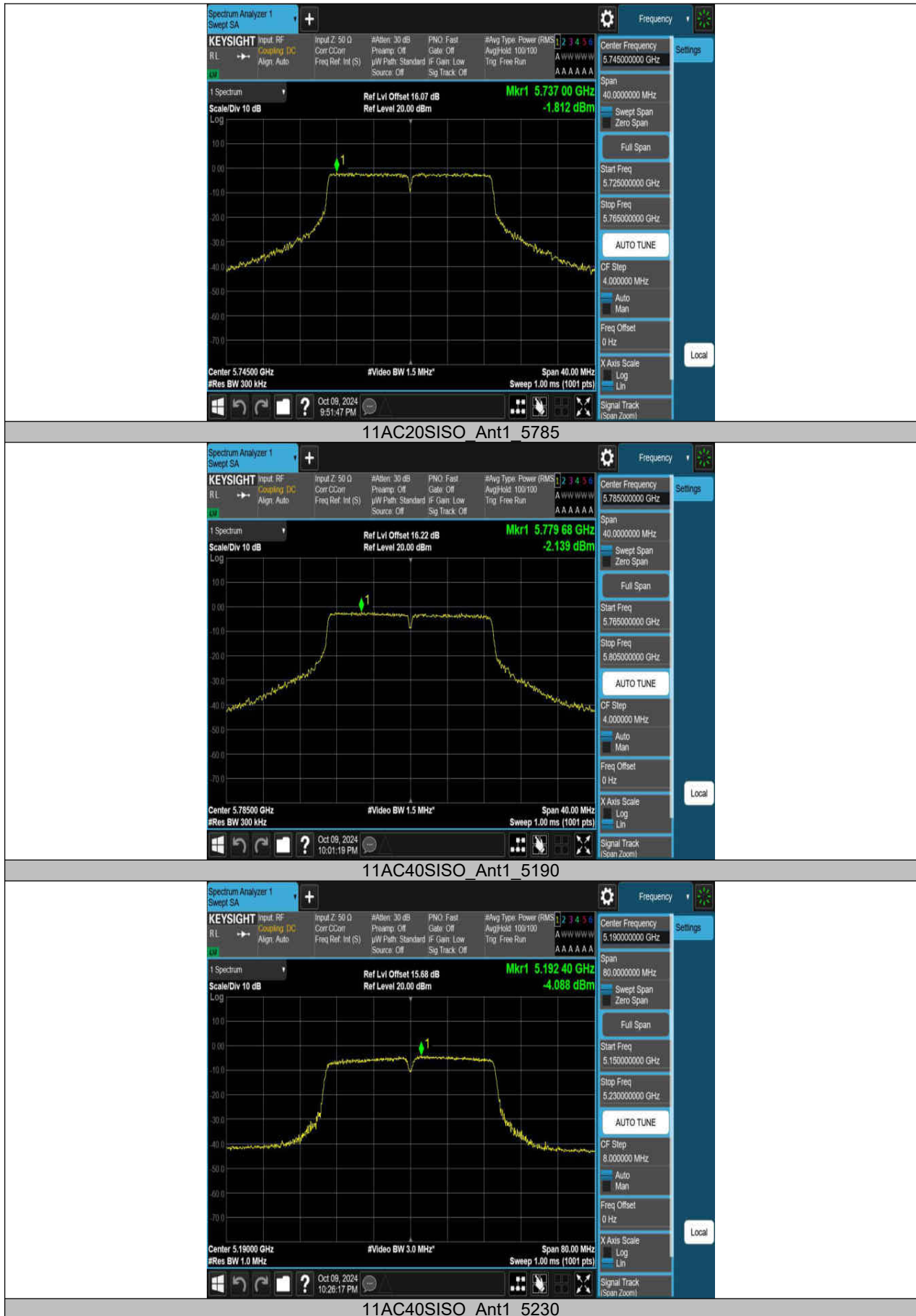
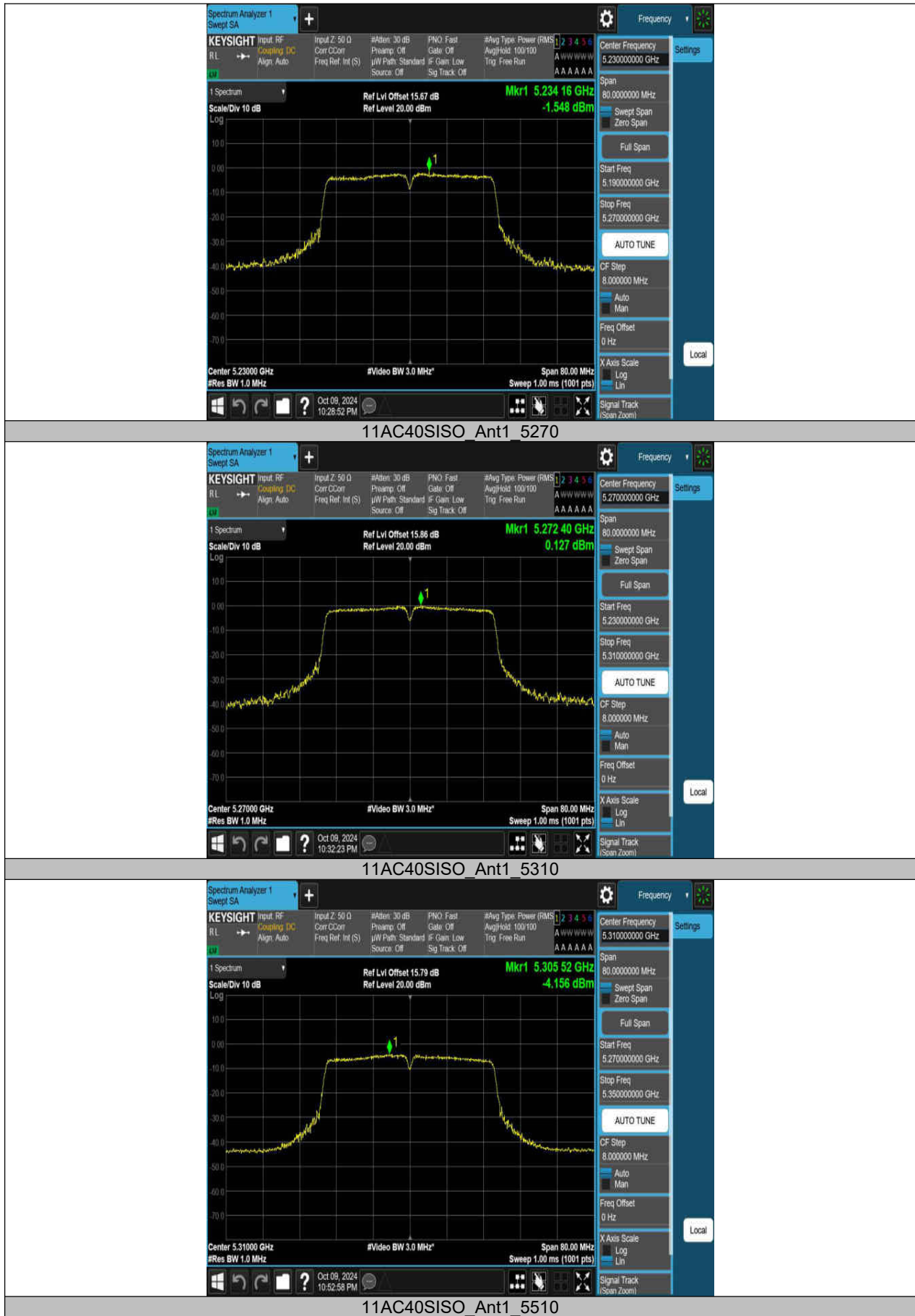
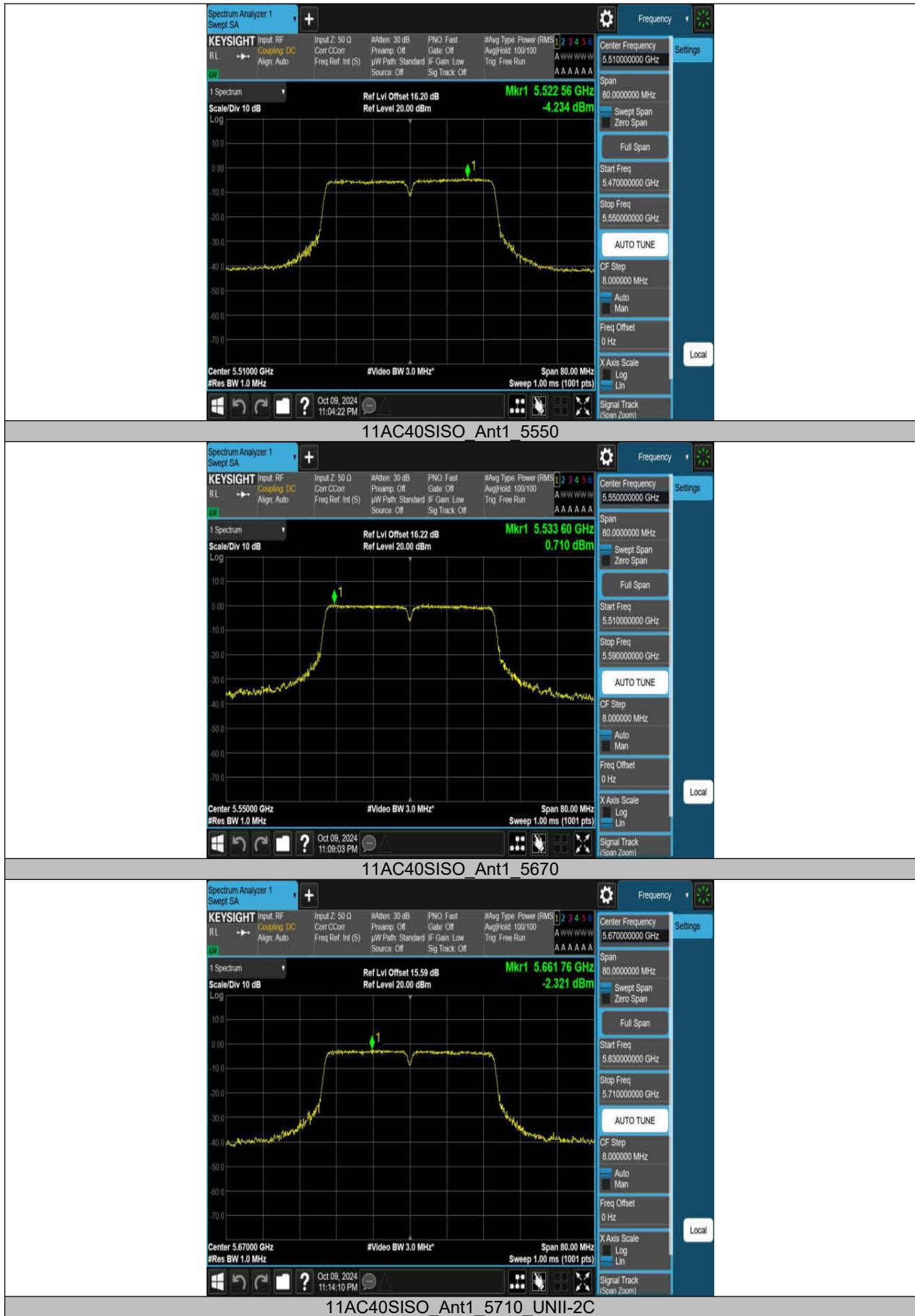


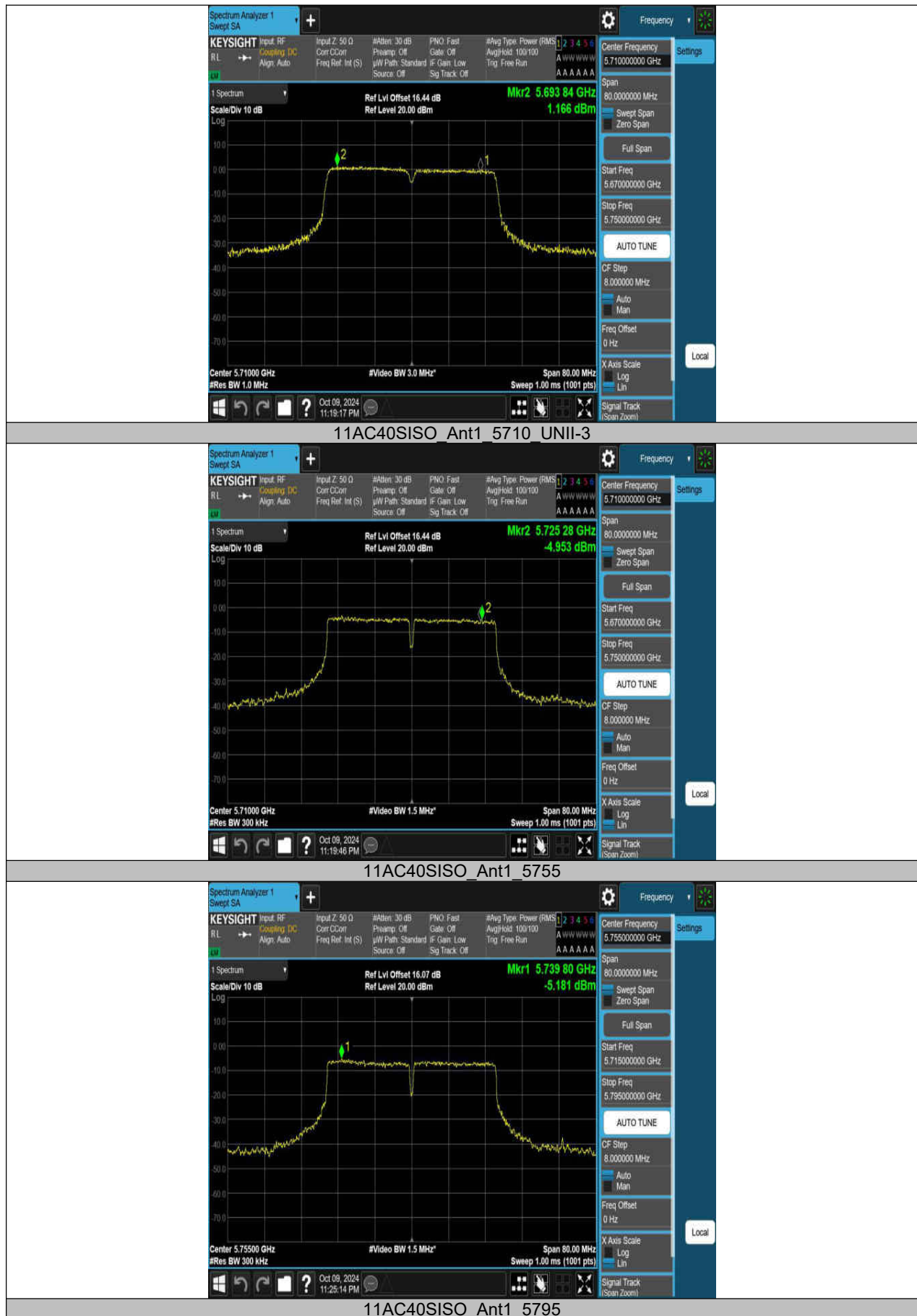


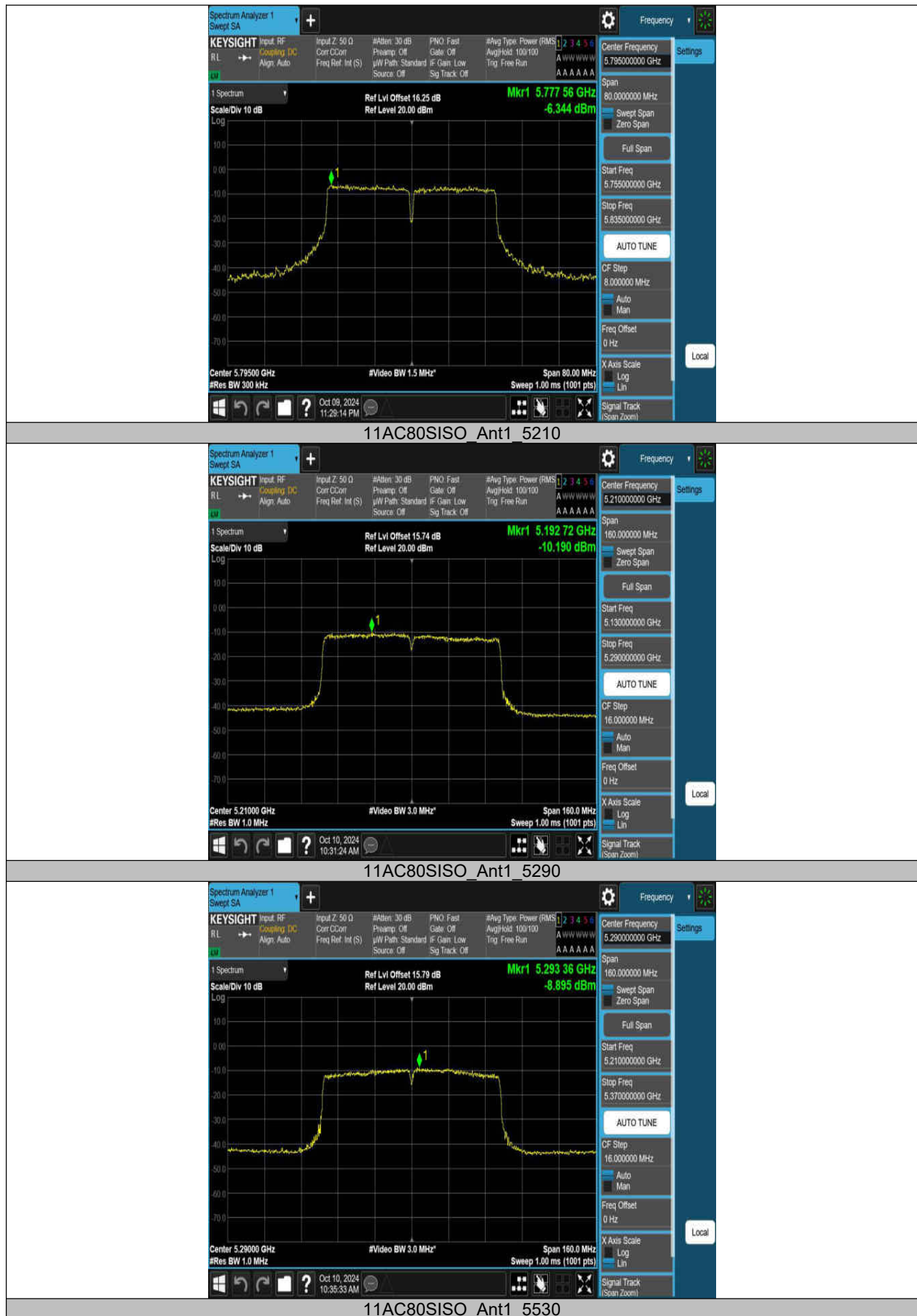






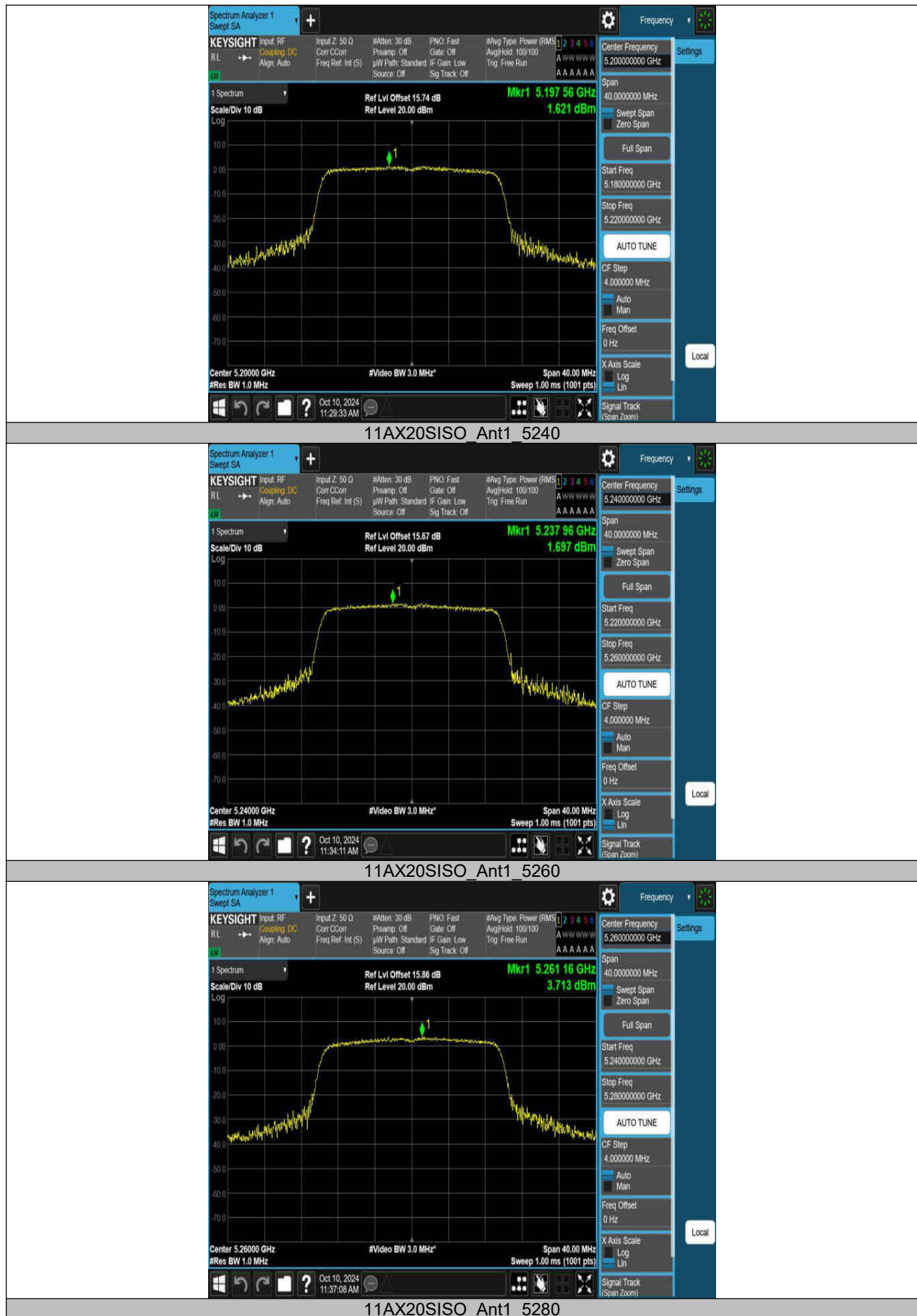






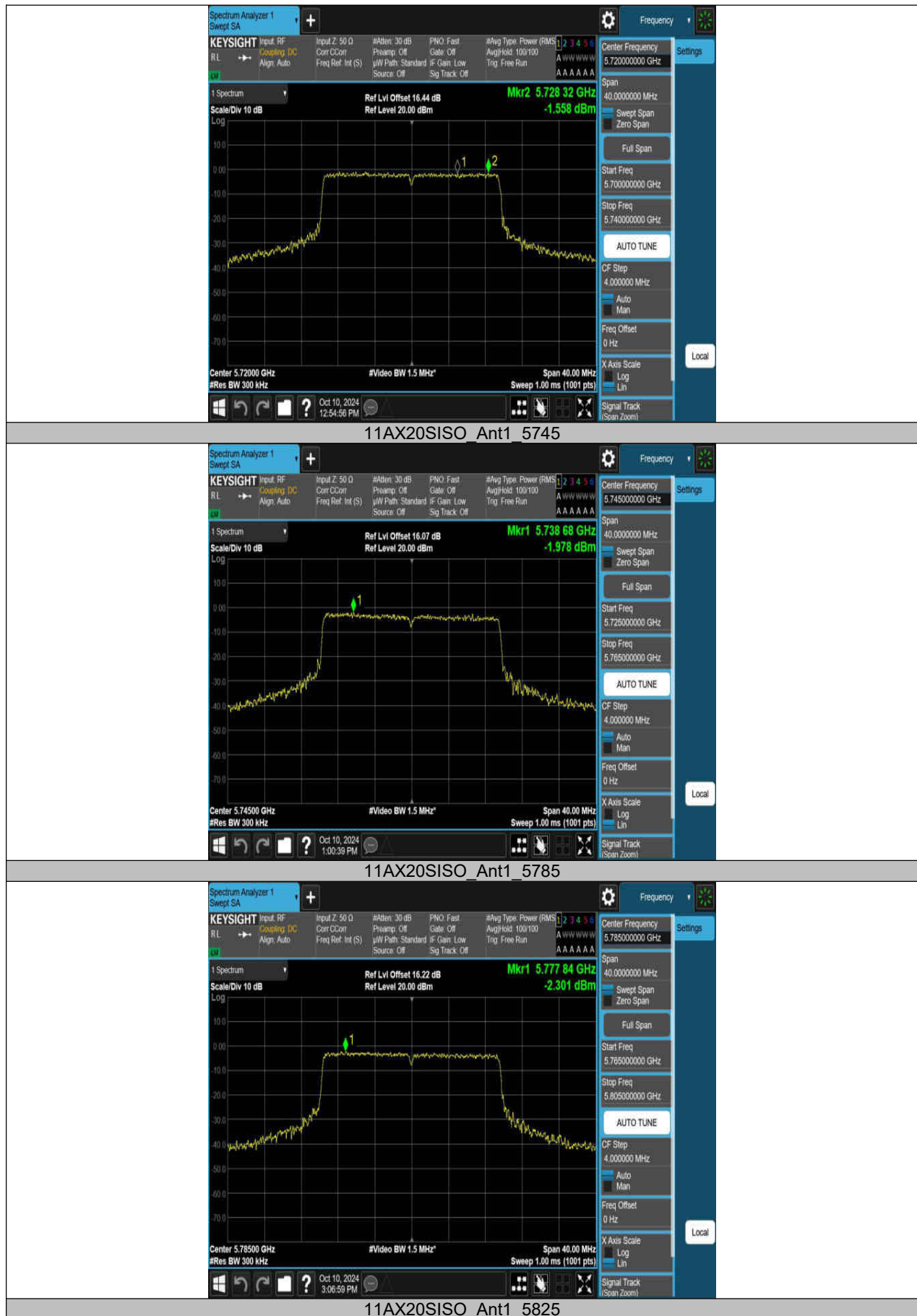


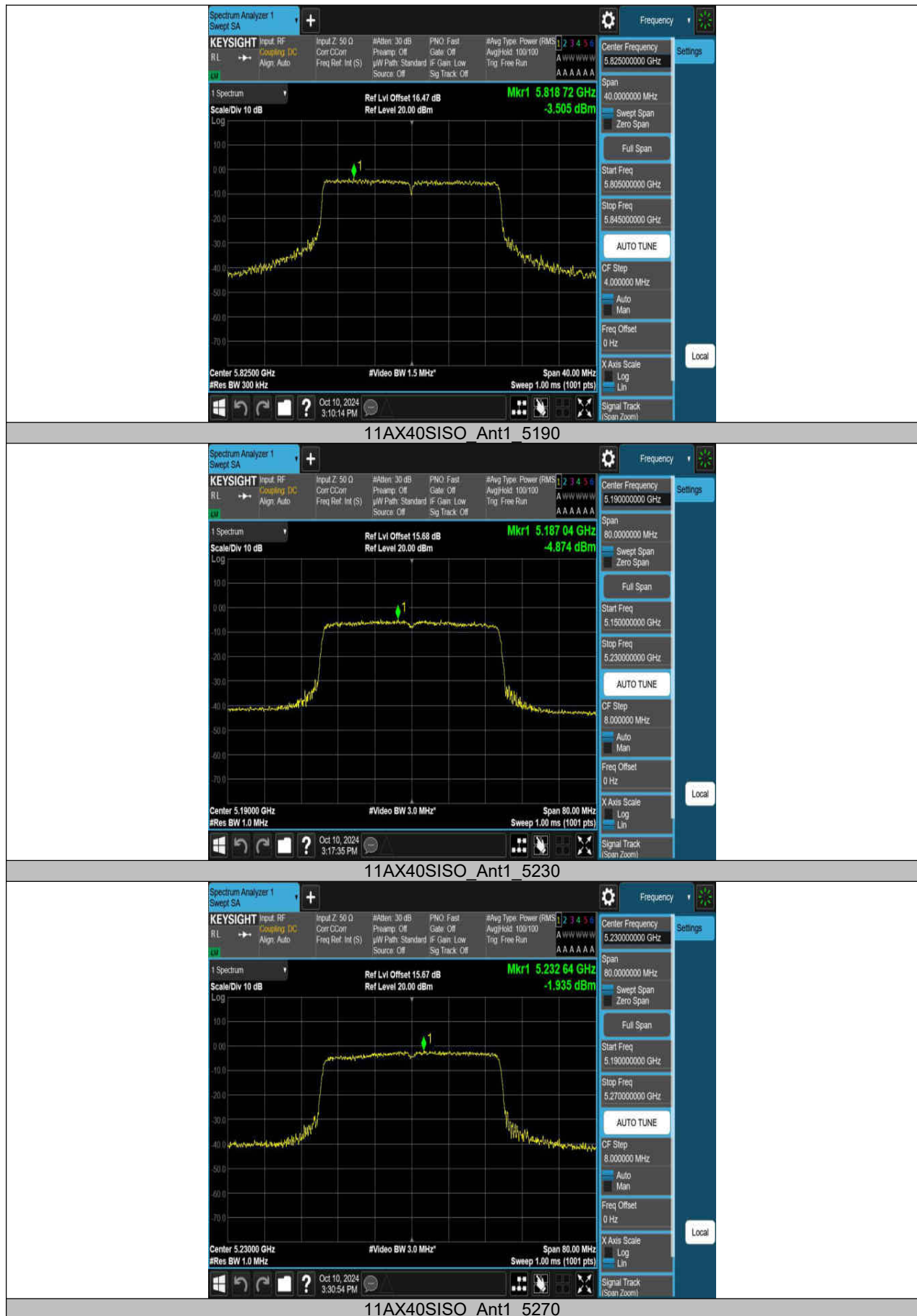




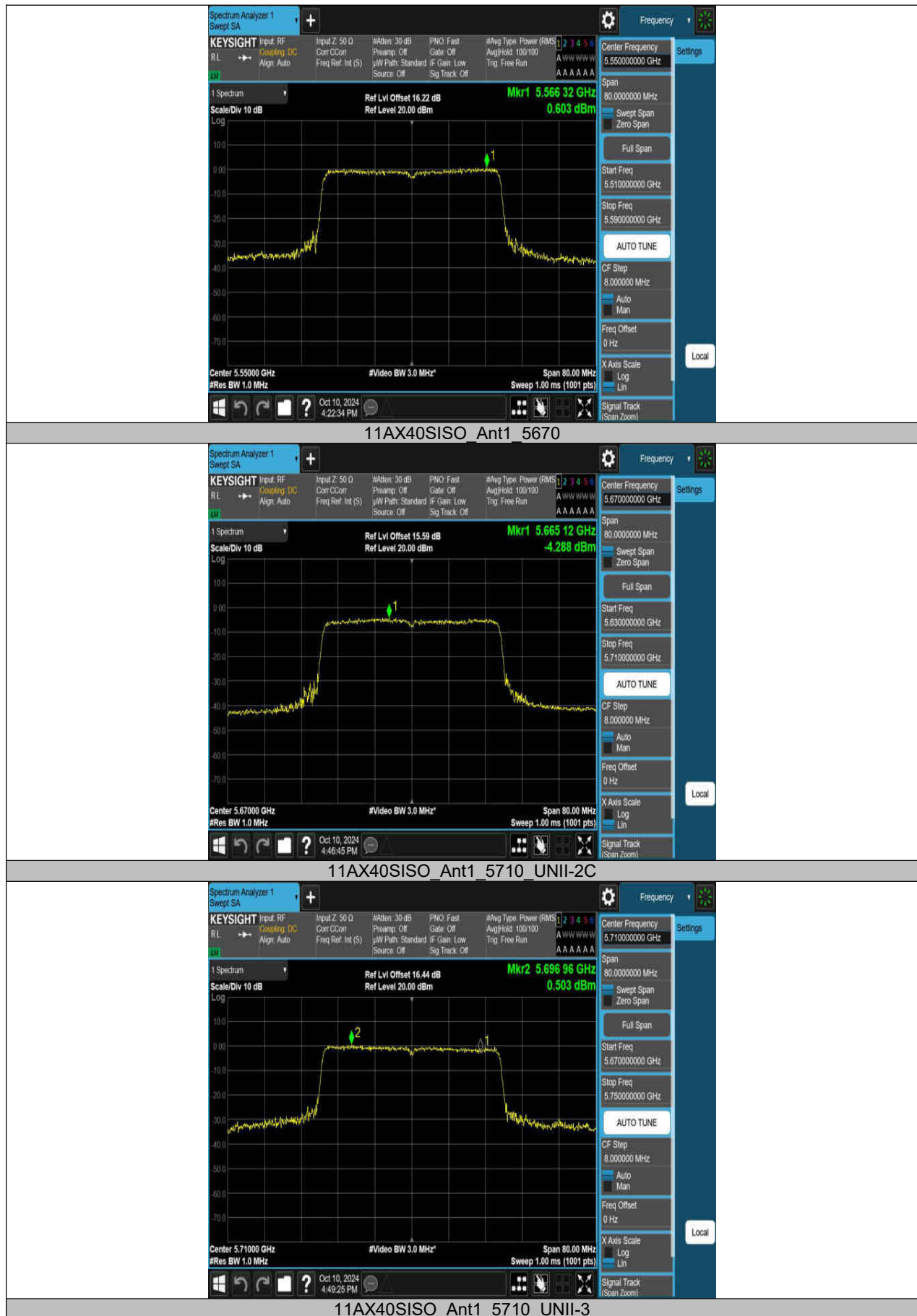


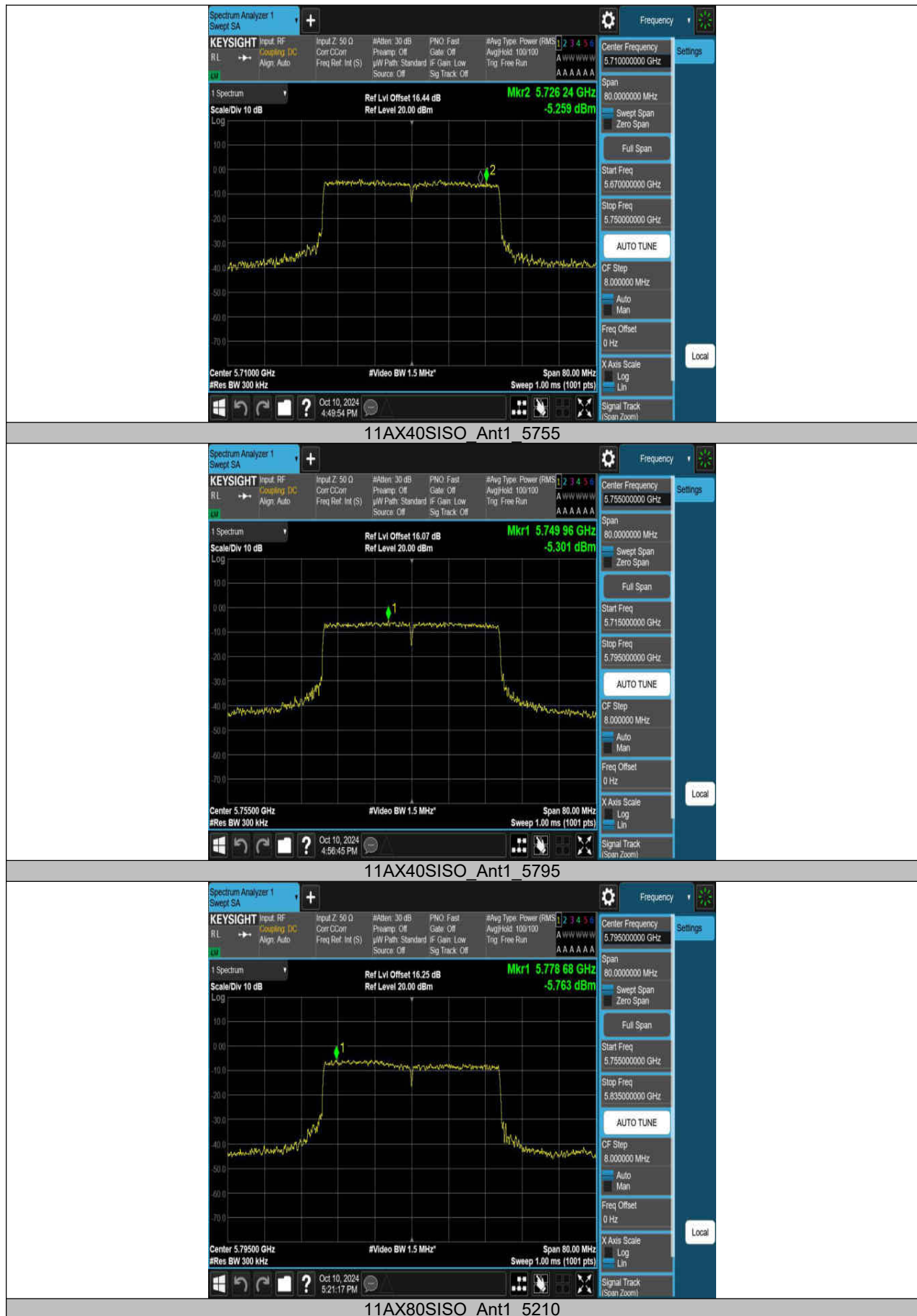


















12. Frequency Stability Measurement

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
11A	Ant1	5180	NV	NT	-33000.00	-6.370656	20	PASS
			LV	NT	-34000.00	-6.563707	20	PASS
			HV	NT	-33000.00	-6.370656	20	PASS
		5200	NV	NT	-35000.00	-6.730769	20	PASS
			LV	NT	-35000.00	-6.730769	20	PASS
			HV	NT	-35000.00	-6.730769	20	PASS
		5240	NV	NT	-35000.00	-6.679389	20	PASS
			LV	NT	-35000.00	-6.679389	20	PASS
			HV	NT	-35000.00	-6.679389	20	PASS
		5260	NV	NT	-35000.00	-6.653992	20	PASS
			LV	NT	-35000.00	-6.653992	20	PASS
			HV	NT	-35000.00	-6.653992	20	PASS
		5280	NV	NT	-35000.00	-6.628788	20	PASS
			LV	NT	-35000.00	-6.628788	20	PASS
			HV	NT	-34000.00	-6.439394	20	PASS
		5320	NV	NT	-35000.00	-6.578947	20	PASS
			LV	NT	-35000.00	-6.578947	20	PASS
			HV	NT	-34000.00	-6.390977	20	PASS
		5500	NV	NT	-36000.00	-6.545455	20	PASS
			LV	NT	-36000.00	-6.545455	20	PASS
			HV	NT	-36000.00	-6.545455	20	PASS
		5580	NV	NT	-36000.00	-6.451613	20	PASS
			LV	NT	-36000.00	-6.451613	20	PASS
			HV	NT	-36000.00	-6.451613	20	PASS
		5700	NV	NT	-37000.00	-6.491228	20	PASS
			LV	NT	-37000.00	-6.491228	20	PASS
			HV	NT	-37000.00	-6.491228	20	PASS
		5720	NV	NT	-37000.00	-6.468531	20	PASS
			LV	NT	-37000.00	-6.468531	20	PASS
			HV	NT	-37000.00	-6.468531	20	PASS
		5745	NV	NT	-37000.00	-6.440383	20	PASS
			LV	NT	-37000.00	-6.440383	20	PASS
			HV	NT	-37000.00	-6.440383	20	PASS
		5785	NV	NT	-37000.00	-6.395851	20	PASS
			LV	NT	-37000.00	-6.395851	20	PASS

		5825	HV	NT	-37000.00	-6.395851	20	PASS
			NV	NT	-37000.00	-6.351931	20	PASS
			LV	NT	-37000.00	-6.351931	20	PASS
			HV	NT	-37000.00	-6.351931	20	PASS
11N20SIS O	Ant1	5180	NV	NT	-33000.00	-6.370656	20	PASS
			LV	NT	-33000.00	-6.370656	20	PASS
			HV	NT	-33000.00	-6.370656	20	PASS
		5200	NV	NT	-32000.00	-6.153846	20	PASS
			LV	NT	-33000.00	-6.346154	20	PASS
			HV	NT	-33000.00	-6.346154	20	PASS
		5240	NV	NT	-33000.00	-6.297710	20	PASS
			LV	NT	-33000.00	-6.297710	20	PASS
			HV	NT	-33000.00	-6.297710	20	PASS
		5260	NV	NT	-33000.00	-6.273764	20	PASS
			LV	NT	-33000.00	-6.273764	20	PASS
			HV	NT	-33000.00	-6.273764	20	PASS
		5280	NV	NT	-33000.00	-6.250000	20	PASS
			LV	NT	-33000.00	-6.250000	20	PASS
			HV	NT	-33000.00	-6.250000	20	PASS
		5320	NV	NT	-34000.00	-6.390977	20	PASS
			LV	NT	-34000.00	-6.390977	20	PASS
			HV	NT	-33000.00	-6.203008	20	PASS
		5500	NV	NT	-41000.00	-7.454545	20	PASS
			LV	NT	-41000.00	-7.454545	20	PASS
			HV	NT	-41000.00	-7.454545	20	PASS
		5580	NV	NT	-41000.00	-7.347670	20	PASS
			LV	NT	-41000.00	-7.347670	20	PASS
			HV	NT	-41000.00	-7.347670	20	PASS
		5700	NV	NT	-42000.00	-7.368421	20	PASS
			LV	NT	-42000.00	-7.368421	20	PASS
			HV	NT	-42000.00	-7.368421	20	PASS
		5720	NV	NT	-42000.00	-7.342657	20	PASS
			LV	NT	-43000.00	-7.517483	20	PASS
			HV	NT	-43000.00	-7.517483	20	PASS
		5745	NV	NT	-42000.00	-7.310705	20	PASS
			LV	NT	-42000.00	-7.310705	20	PASS
			HV	NT	-43000.00	-7.484769	20	PASS
		5785	NV	NT	-43000.00	-7.433016	20	PASS
			LV	NT	-43000.00	-7.433016	20	PASS
			HV	NT	-43000.00	-7.433016	20	PASS
		5825	NV	NT	-43000.00	-7.381974	20	PASS
			LV	NT	-43000.00	-7.381974	20	PASS
			HV	NT	-43000.00	-7.381974	20	PASS
11N40SIS O	Ant1	5190	NV	NT	-38000.00	-7.321773	20	PASS
			LV	NT	-38000.00	-7.321773	20	PASS
			HV	NT	-39000.00	-7.514451	20	PASS
		5230	NV	NT	-39000.00	-7.456979	20	PASS
			LV	NT	-39000.00	-7.456979	20	PASS
			HV	NT	-39000.00	-7.456979	20	PASS
		5270	NV	NT	-39000.00	-7.400380	20	PASS
			LV	NT	-39000.00	-7.400380	20	PASS
			HV	NT	-39000.00	-7.400380	20	PASS
		5310	NV	NT	-39000.00	-7.344633	20	PASS
			LV	NT	-39000.00	-7.344633	20	PASS
			HV	NT	-39000.00	-7.344633	20	PASS
		5510	NV	NT	-41000.00	-7.441016	20	PASS
			LV	NT	-41000.00	-7.441016	20	PASS
			HV	NT	-41000.00	-7.441016	20	PASS
		5550	NV	NT	-41000.00	-7.387387	20	PASS
			LV	NT	-41000.00	-7.387387	20	PASS
			HV	NT	-41000.00	-7.387387	20	PASS
		5670	NV	NT	-41000.00	-7.231041	20	PASS
			LV	NT	-41000.00	-7.231041	20	PASS
			HV	NT	-41000.00	-7.231041	20	PASS
		5710	NV	NT	-41000.00	-7.180385	20	PASS
			LV	NT	-41000.00	-7.180385	20	PASS
			HV	NT	-42000.00	-7.355517	20	PASS

		5755	NV	NT	-42000.00	-7.298002	20	PASS
			LV	NT	-42000.00	-7.298002	20	PASS
			HV	NT	-42000.00	-7.298002	20	PASS
		5795	NV	NT	-42000.00	-7.247627	20	PASS
			LV	NT	-42000.00	-7.247627	20	PASS
			HV	NT	-42000.00	-7.247627	20	PASS
11AC20SI SO	Ant1	5180	NV	NT	-32000.00	-6.177606	20	PASS
			LV	NT	-33000.00	-6.370656	20	PASS
			HV	NT	-33000.00	-6.370656	20	PASS
		5200	NV	NT	-38000.00	-7.307692	20	PASS
			LV	NT	-38000.00	-7.307692	20	PASS
			HV	NT	-38000.00	-7.307692	20	PASS
		5240	NV	NT	-38000.00	-7.251908	20	PASS
			LV	NT	-38000.00	-7.251908	20	PASS
			HV	NT	-39000.00	-7.442748	20	PASS
		5260	NV	NT	-38000.00	-7.224335	20	PASS
			LV	NT	-39000.00	-7.414449	20	PASS
			HV	NT	-39000.00	-7.414449	20	PASS
		5280	NV	NT	-39000.00	-7.386364	20	PASS
			LV	NT	-39000.00	-7.386364	20	PASS
			HV	NT	-39000.00	-7.386364	20	PASS
		5320	NV	NT	-39000.00	-7.330827	20	PASS
			LV	NT	-39000.00	-7.330827	20	PASS
			HV	NT	-39000.00	-7.330827	20	PASS
		5500	NV	NT	-41000.00	-7.454545	20	PASS
			LV	NT	-41000.00	-7.454545	20	PASS
			HV	NT	-40000.00	-7.272727	20	PASS
		5580	NV	NT	-41000.00	-7.347670	20	PASS
			LV	NT	-41000.00	-7.347670	20	PASS
			HV	NT	-41000.00	-7.347670	20	PASS
		5700	NV	NT	-42000.00	-7.368421	20	PASS
			LV	NT	-42000.00	-7.368421	20	PASS
			HV	NT	-42000.00	-7.368421	20	PASS
		5720	NV	NT	-42000.00	-7.342657	20	PASS
			LV	NT	-42000.00	-7.342657	20	PASS
			HV	NT	-42000.00	-7.342657	20	PASS
		5745	NV	NT	-43000.00	-7.484769	20	PASS
			LV	NT	-43000.00	-7.484769	20	PASS
			HV	NT	-42000.00	-7.310705	20	PASS
		5785	NV	NT	-43000.00	-7.433016	20	PASS
			LV	NT	-42000.00	-7.260156	20	PASS
			HV	NT	-43000.00	-7.433016	20	PASS
		5825	NV	NT	-43000.00	-7.381974	20	PASS
			LV	NT	-43000.00	-7.381974	20	PASS
			HV	NT	-42000.00	-7.210300	20	PASS
11AC40SI SO	Ant1	5190	NV	NT	-38000.00	-7.321773	20	PASS
			LV	NT	-38000.00	-7.321773	20	PASS
			HV	NT	-38000.00	-7.321773	20	PASS
		5230	NV	NT	-38000.00	-7.265774	20	PASS
			LV	NT	-38000.00	-7.265774	20	PASS
			HV	NT	-38000.00	-7.265774	20	PASS
		5270	NV	NT	-38000.00	-7.210626	20	PASS
			LV	NT	-38000.00	-7.210626	20	PASS
			HV	NT	-38000.00	-7.210626	20	PASS
		5310	NV	NT	-38000.00	-7.156309	20	PASS
			LV	NT	-38000.00	-7.156309	20	PASS
			HV	NT	-38000.00	-7.156309	20	PASS
		5510	NV	NT	-40000.00	-7.259528	20	PASS
			LV	NT	-39000.00	-7.078040	20	PASS
			HV	NT	-40000.00	-7.259528	20	PASS
		5550	NV	NT	-40000.00	-7.207207	20	PASS
			LV	NT	-39000.00	-7.027027	20	PASS
			HV	NT	-40000.00	-7.207207	20	PASS
		5670	NV	NT	-41000.00	-7.231041	20	PASS
			LV	NT	-40000.00	-7.054674	20	PASS
			HV	NT	-40000.00	-7.054674	20	PASS
		5710	NV	NT	-40000.00	-7.005254	20	PASS

			LV	NT	-40000.00	-7.005254	20	PASS
			HV	NT	-41000.00	-7.180385	20	PASS
			NV	NT	-40000.00	-6.950478	20	PASS
		5755	LV	NT	-41000.00	-7.124240	20	PASS
			HV	NT	-41000.00	-7.124240	20	PASS
			NV	NT	-41000.00	-7.075065	20	PASS
		5795	LV	NT	-41000.00	-7.075065	20	PASS
			HV	NT	-41000.00	-7.075065	20	PASS
			NV	NT	-37000.00	-7.101727	20	PASS
11AC80SI SO	Ant1	5210	LV	NT	-37000.00	-7.101727	20	PASS
			HV	NT	-37000.00	-7.101727	20	PASS
			NV	NT	-37000.00	-6.994329	20	PASS
		5290	LV	NT	-37000.00	-6.994329	20	PASS
			HV	NT	-37000.00	-6.994329	20	PASS
			NV	NT	-41000.00	-7.414105	20	PASS
		5530	LV	NT	-41000.00	-7.414105	20	PASS
			HV	NT	-41000.00	-7.414105	20	PASS
			NV	NT	-43000.00	-7.664884	20	PASS
		5610	LV	NT	-43000.00	-7.664884	20	PASS
			HV	NT	-43000.00	-7.664884	20	PASS
			NV	NT	-38000.00	-6.678383	20	PASS
		5690	LV	NT	-38000.00	-6.678383	20	PASS
			HV	NT	-38000.00	-6.678383	20	PASS
			NV	NT	-39000.00	-6.753247	20	PASS
		5775	LV	NT	-39000.00	-6.753247	20	PASS
			HV	NT	-39000.00	-6.753247	20	PASS
			NV	NT	-38000.00	-7.335907	20	PASS
		5180	LV	NT	-38000.00	-7.335907	20	PASS
			HV	NT	-38000.00	-7.335907	20	PASS
			NV	NT	-38000.00	-7.307692	20	PASS
		5200	LV	NT	-38000.00	-7.307692	20	PASS
			HV	NT	-38000.00	-7.307692	20	PASS
			NV	NT	-37000.00	-7.061069	20	PASS
		5240	LV	NT	-38000.00	-7.251908	20	PASS
			HV	NT	-37000.00	-7.061069	20	PASS
			NV	NT	-38000.00	-7.224335	20	PASS
		5260	LV	NT	-38000.00	-7.224335	20	PASS
			HV	NT	-37000.00	-7.034221	20	PASS
			NV	NT	-38000.00	-7.196970	20	PASS
		5280	LV	NT	-38000.00	-7.196970	20	PASS
			HV	NT	-38000.00	-7.196970	20	PASS
			NV	NT	-38000.00	-7.142857	20	PASS
		5320	LV	NT	-38000.00	-7.142857	20	PASS
			HV	NT	-38000.00	-7.142857	20	PASS
			NV	NT	-40000.00	-7.272727	20	PASS
11AX20SI SO	Ant1	5500	LV	NT	-39000.00	-7.090909	20	PASS
			HV	NT	-39000.00	-7.090909	20	PASS
			NV	NT	-40000.00	-7.168459	20	PASS
		5580	LV	NT	-40000.00	-7.168459	20	PASS
			HV	NT	-40000.00	-7.168459	20	PASS
			NV	NT	-41000.00	-7.192982	20	PASS
		5700	LV	NT	-41000.00	-7.192982	20	PASS
			HV	NT	-41000.00	-7.192982	20	PASS
			NV	NT	-41000.00	-7.167832	20	PASS
		5720	LV	NT	-41000.00	-7.167832	20	PASS
			HV	NT	-41000.00	-7.167832	20	PASS
			NV	NT	-41000.00	-7.136641	20	PASS
		5745	LV	NT	-41000.00	-7.136641	20	PASS
			HV	NT	-41000.00	-7.136641	20	PASS
			NV	NT	-41000.00	-7.087295	20	PASS
		5785	LV	NT	-42000.00	-7.260156	20	PASS
			HV	NT	-42000.00	-7.260156	20	PASS
			NV	NT	-42000.00	-7.210300	20	PASS
		5825	LV	NT	-42000.00	-7.210300	20	PASS
			HV	NT	-42000.00	-7.210300	20	PASS
			NV	NT	-37000.00	-7.129094	20	PASS
11AX40SI SO	Ant1	5190	LV	NT	-37000.00	-7.129094	20	PASS
			NV	NT	-37000.00	-7.129094	20	PASS

		5230	HV	NT	-37000.00	-7.129094	20	PASS
			NV	NT	-37000.00	-7.074570	20	PASS
			LV	NT	-37000.00	-7.074570	20	PASS
			HV	NT	-37000.00	-7.074570	20	PASS
		5270	NV	NT	-37000.00	-7.020873	20	PASS
			LV	NT	-37000.00	-7.020873	20	PASS
			HV	NT	-38000.00	-7.210626	20	PASS
			NV	NT	-38000.00	-7.156309	20	PASS
		5310	LV	NT	-38000.00	-7.156309	20	PASS
			HV	NT	-38000.00	-7.156309	20	PASS
			NV	NT	-39000.00	-7.078040	20	PASS
			LV	NT	-39000.00	-7.078040	20	PASS
		5510	HV	NT	-39000.00	-7.078040	20	PASS
			NV	NT	-40000.00	-7.207207	20	PASS
			LV	NT	-40000.00	-7.207207	20	PASS
			HV	NT	-40000.00	-7.207207	20	PASS
		5550	NV	NT	-40000.00	-7.054674	20	PASS
			LV	NT	-41000.00	-7.231041	20	PASS
			HV	NT	-40000.00	-7.054674	20	PASS
			NV	NT	-41000.00	-7.180385	20	PASS
		5670	LV	NT	-41000.00	-7.180385	20	PASS
			HV	NT	-41000.00	-7.180385	20	PASS
			NV	NT	-41000.00	-7.124240	20	PASS
			LV	NT	-41000.00	-7.124240	20	PASS
		5710	HV	NT	-42000.00	-7.298002	20	PASS
			NV	NT	-42000.00	-7.247627	20	PASS
			LV	NT	-42000.00	-7.247627	20	PASS
			HV	NT	-41000.00	-7.075065	20	PASS
11AX80SI SO	Ant1	5210	NV	NT	-38000.00	-7.293666	20	PASS
			LV	NT	-37000.00	-7.101727	20	PASS
			HV	NT	-38000.00	-7.293666	20	PASS
		5290	NV	NT	-38000.00	-7.183365	20	PASS
			LV	NT	-38000.00	-7.183365	20	PASS
			HV	NT	-39000.00	-7.372401	20	PASS
		5530	NV	NT	-40000.00	-7.233273	20	PASS
			LV	NT	-40000.00	-7.233273	20	PASS
			HV	NT	-40000.00	-7.233273	20	PASS
		5610	NV	NT	-40000.00	-7.130125	20	PASS
			LV	NT	-41000.00	-7.308378	20	PASS
			HV	NT	-41000.00	-7.308378	20	PASS
		5690	NV	NT	-41000.00	-7.205624	20	PASS
			LV	NT	-41000.00	-7.205624	20	PASS
			HV	NT	-41000.00	-7.205624	20	PASS
		5775	NV	NT	-42000.00	-7.272727	20	PASS
			LV	NT	-42000.00	-7.272727	20	PASS
			HV	NT	-42000.00	-7.272727	20	PASS

Temperature								
Test Mode	Antenna	Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-34000.00	-6.563707	20	PASS
			NV	-20	-33000.00	-6.370656	20	PASS
			NV	-10	-33000.00	-6.370656	20	PASS
			NV	0	-33000.00	-6.370656	20	PASS
			NV	10	-33000.00	-6.370656	20	PASS
			NV	20	-33000.00	-6.370656	20	PASS
			NV	30	-33000.00	-6.370656	20	PASS
			NV	40	-33000.00	-6.370656	20	PASS
		5200	NV	50	-33000.00	-6.370656	20	PASS
			NV	-30	-35000.00	-6.730769	20	PASS
			NV	-20	-35000.00	-6.730769	20	PASS
			NV	-10	-35000.00	-6.730769	20	PASS
			NV	0	-35000.00	-6.730769	20	PASS
			NV	10	-35000.00	-6.730769	20	PASS
			NV	20	-35000.00	-6.730769	20	PASS
			NV	30	-35000.00	-6.730769	20	PASS

			NV	40	-34000.00	-6.538462	20	PASS
			NV	50	-35000.00	-6.730769	20	PASS
		5240	NV	-30	-35000.00	-6.679389	20	PASS
			NV	-20	-35000.00	-6.679389	20	PASS
			NV	-10	-35000.00	-6.679389	20	PASS
			NV	0	-35000.00	-6.679389	20	PASS
			NV	10	-35000.00	-6.679389	20	PASS
			NV	20	-35000.00	-6.679389	20	PASS
			NV	30	-35000.00	-6.679389	20	PASS
			NV	40	-35000.00	-6.679389	20	PASS
			NV	50	-35000.00	-6.679389	20	PASS
		5260	NV	-30	-35000.00	-6.653992	20	PASS
			NV	-20	-34000.00	-6.463878	20	PASS
			NV	-10	-34000.00	-6.463878	20	PASS
			NV	0	-34000.00	-6.463878	20	PASS
			NV	10	-35000.00	-6.653992	20	PASS
			NV	20	-34000.00	-6.463878	20	PASS
			NV	30	-34000.00	-6.463878	20	PASS
			NV	40	-34000.00	-6.463878	20	PASS
			NV	50	-35000.00	-6.653992	20	PASS
		5280	NV	-30	-35000.00	-6.628788	20	PASS
			NV	-20	-34000.00	-6.439394	20	PASS
			NV	-10	-35000.00	-6.628788	20	PASS
			NV	0	-35000.00	-6.628788	20	PASS
			NV	10	-35000.00	-6.628788	20	PASS
			NV	20	-35000.00	-6.628788	20	PASS
			NV	30	-35000.00	-6.628788	20	PASS
			NV	40	-35000.00	-6.628788	20	PASS
		5320	NV	50	-35000.00	-6.628788	20	PASS
			NV	-30	-35000.00	-6.578947	20	PASS
			NV	-20	-35000.00	-6.578947	20	PASS
			NV	-10	-34000.00	-6.390977	20	PASS
			NV	0	-35000.00	-6.578947	20	PASS
			NV	10	-35000.00	-6.578947	20	PASS
			NV	20	-35000.00	-6.578947	20	PASS
			NV	30	-35000.00	-6.578947	20	PASS
		5500	NV	40	-35000.00	-6.578947	20	PASS
			NV	50	-35000.00	-6.578947	20	PASS
			NV	-30	-36000.00	-6.545455	20	PASS
			NV	-20	-36000.00	-6.545455	20	PASS
			NV	-10	-36000.00	-6.545455	20	PASS
			NV	0	-35000.00	-6.363636	20	PASS
			NV	10	-36000.00	-6.545455	20	PASS
			NV	20	-36000.00	-6.545455	20	PASS
		5580	NV	30	-36000.00	-6.545455	20	PASS
			NV	40	-36000.00	-6.545455	20	PASS
			NV	50	-36000.00	-6.545455	20	PASS
			NV	-30	-36000.00	-6.451613	20	PASS
			NV	-20	-36000.00	-6.451613	20	PASS
			NV	-10	-36000.00	-6.451613	20	PASS
			NV	0	-36000.00	-6.451613	20	PASS
			NV	10	-36000.00	-6.451613	20	PASS
		5700	NV	20	-36000.00	-6.451613	20	PASS
			NV	30	-36000.00	-6.451613	20	PASS
			NV	40	-36000.00	-6.451613	20	PASS
			NV	50	-36000.00	-6.451613	20	PASS
			NV	-30	-37000.00	-6.491228	20	PASS
			NV	-20	-37000.00	-6.491228	20	PASS
			NV	-10	-37000.00	-6.491228	20	PASS
			NV	0	-37000.00	-6.491228	20	PASS
		5720	NV	10	-37000.00	-6.491228	20	PASS
			NV	20	-37000.00	-6.491228	20	PASS
			NV	30	-37000.00	-6.491228	20	PASS
			NV	40	-37000.00	-6.491228	20	PASS
			NV	50	-37000.00	-6.491228	20	PASS
			NV	-30	-37000.00	-6.468531	20	PASS
			NV	-20	-37000.00	-6.468531	20	PASS

			NV	-10	-37000.00	-6.468531	20	PASS
			NV	0	-37000.00	-6.468531	20	PASS
			NV	10	-37000.00	-6.468531	20	PASS
			NV	20	-37000.00	-6.468531	20	PASS
			NV	30	-37000.00	-6.468531	20	PASS
			NV	40	-37000.00	-6.468531	20	PASS
			NV	50	-37000.00	-6.468531	20	PASS
		5745	NV	-30	-37000.00	-6.440383	20	PASS
			NV	-20	-37000.00	-6.440383	20	PASS
			NV	-10	-37000.00	-6.440383	20	PASS
			NV	0	-37000.00	-6.440383	20	PASS
			NV	10	-37000.00	-6.440383	20	PASS
			NV	20	-37000.00	-6.440383	20	PASS
			NV	30	-37000.00	-6.440383	20	PASS
			NV	40	-37000.00	-6.440383	20	PASS
			NV	50	-37000.00	-6.440383	20	PASS
		5785	NV	-30	-37000.00	-6.395851	20	PASS
			NV	-20	-37000.00	-6.395851	20	PASS
			NV	-10	-37000.00	-6.395851	20	PASS
			NV	0	-37000.00	-6.395851	20	PASS
			NV	10	-37000.00	-6.395851	20	PASS
			NV	20	-37000.00	-6.395851	20	PASS
			NV	30	-37000.00	-6.395851	20	PASS
			NV	40	-37000.00	-6.395851	20	PASS
			NV	50	-37000.00	-6.395851	20	PASS
		5825	NV	-30	-37000.00	-6.351931	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	-37000.00	-6.351931	20	PASS
			NV	40	-37000.00	-6.351931	20	PASS
			NV	50	-38000.00	-6.523605	20	PASS
11N20SISO	Ant1	5180	NV	-30	-33000.00	-6.370656	20	PASS
			NV	-20	-33000.00	-6.370656	20	PASS
			NV	-10	-33000.00	-6.370656	20	PASS
			NV	0	-33000.00	-6.370656	20	PASS
			NV	10	-33000.00	-6.370656	20	PASS
			NV	20	-33000.00	-6.370656	20	PASS
			NV	30	-33000.00	-6.370656	20	PASS
			NV	40	-33000.00	-6.370656	20	PASS
			NV	50	-33000.00	-6.370656	20	PASS
		5200	NV	-30	-33000.00	-6.346154	20	PASS
			NV	-20	-33000.00	-6.346154	20	PASS
			NV	-10	-33000.00	-6.346154	20	PASS
			NV	0	-33000.00	-6.346154	20	PASS
			NV	10	-33000.00	-6.346154	20	PASS
			NV	20	-33000.00	-6.346154	20	PASS
			NV	30	-33000.00	-6.346154	20	PASS
			NV	40	-33000.00	-6.346154	20	PASS
			NV	50	-33000.00	-6.346154	20	PASS
		5240	NV	-30	-33000.00	-6.297710	20	PASS
			NV	-20	-33000.00	-6.297710	20	PASS
			NV	-10	-33000.00	-6.297710	20	PASS
			NV	0	-33000.00	-6.297710	20	PASS
			NV	10	-33000.00	-6.297710	20	PASS
			NV	20	-33000.00	-6.297710	20	PASS
			NV	30	-33000.00	-6.297710	20	PASS
			NV	40	-33000.00	-6.297710	20	PASS
			NV	50	-33000.00	-6.297710	20	PASS
		5260	NV	-30	-33000.00	-6.273764	20	PASS
			NV	-20	-33000.00	-6.273764	20	PASS
			NV	-10	-34000.00	-6.463878	20	PASS
			NV	0	-33000.00	-6.273764	20	PASS
			NV	10	-33000.00	-6.273764	20	PASS
			NV	20	-33000.00	-6.273764	20	PASS

			NV	30	-33000.00	-6.273764	20	PASS
			NV	40	-33000.00	-6.273764	20	PASS
			NV	50	-33000.00	-6.273764	20	PASS
		5280	NV	-30	-33000.00	-6.250000	20	PASS
			NV	-20	-33000.00	-6.250000	20	PASS
			NV	-10	-33000.00	-6.250000	20	PASS
			NV	0	-33000.00	-6.250000	20	PASS
			NV	10	-33000.00	-6.250000	20	PASS
			NV	20	-33000.00	-6.250000	20	PASS
			NV	30	-34000.00	-6.439394	20	PASS
			NV	40	-34000.00	-6.439394	20	PASS
			NV	50	-33000.00	-6.250000	20	PASS
		5320	NV	-30	-34000.00	-6.390977	20	PASS
			NV	-20	-33000.00	-6.203008	20	PASS
			NV	-10	-33000.00	-6.203008	20	PASS
			NV	0	-34000.00	-6.390977	20	PASS
			NV	10	-34000.00	-6.390977	20	PASS
			NV	20	-34000.00	-6.390977	20	PASS
			NV	30	-34000.00	-6.390977	20	PASS
			NV	40	-34000.00	-6.390977	20	PASS
			NV	50	-33000.00	-6.203008	20	PASS
		5500	NV	-30	-41000.00	-7.454545	20	PASS
			NV	-20	-41000.00	-7.454545	20	PASS
			NV	-10	-41000.00	-7.454545	20	PASS
			NV	0	-40000.00	-7.272727	20	PASS
			NV	10	-41000.00	-7.454545	20	PASS
			NV	20	-41000.00	-7.454545	20	PASS
			NV	30	-41000.00	-7.454545	20	PASS
			NV	40	-40000.00	-7.272727	20	PASS
			NV	50	-41000.00	-7.454545	20	PASS
		5580	NV	-30	-41000.00	-7.347670	20	PASS
			NV	-20	-41000.00	-7.347670	20	PASS
			NV	-10	-42000.00	-7.526882	20	PASS
			NV	0	-41000.00	-7.347670	20	PASS
			NV	10	-41000.00	-7.347670	20	PASS
			NV	20	-41000.00	-7.347670	20	PASS
			NV	30	-41000.00	-7.347670	20	PASS
			NV	40	-41000.00	-7.347670	20	PASS
			NV	50	-41000.00	-7.347670	20	PASS
		5700	NV	-30	-42000.00	-7.368421	20	PASS
			NV	-20	-42000.00	-7.368421	20	PASS
			NV	-10	-42000.00	-7.368421	20	PASS
			NV	0	-42000.00	-7.368421	20	PASS
			NV	10	-42000.00	-7.368421	20	PASS
			NV	20	-42000.00	-7.368421	20	PASS
			NV	30	-42000.00	-7.368421	20	PASS
			NV	40	-42000.00	-7.368421	20	PASS
			NV	50	-42000.00	-7.368421	20	PASS
		5720	NV	-30	-42000.00	-7.342657	20	PASS
			NV	-20	-42000.00	-7.342657	20	PASS
			NV	-10	-42000.00	-7.342657	20	PASS
			NV	0	-42000.00	-7.342657	20	PASS
			NV	10	-42000.00	-7.342657	20	PASS
			NV	20	-42000.00	-7.342657	20	PASS
			NV	30	-42000.00	-7.342657	20	PASS
			NV	40	-42000.00	-7.342657	20	PASS
			NV	50	-42000.00	-7.342657	20	PASS
		5745	NV	-30	-43000.00	-7.484769	20	PASS
			NV	-20	-42000.00	-7.310705	20	PASS
			NV	-10	-43000.00	-7.484769	20	PASS
			NV	0	-42000.00	-7.310705	20	PASS
			NV	10	-42000.00	-7.310705	20	PASS
			NV	20	-43000.00	-7.484769	20	PASS
			NV	30	-42000.00	-7.310705	20	PASS
			NV	40	-42000.00	-7.310705	20	PASS
			NV	50	-43000.00	-7.484769	20	PASS
		5785	NV	-30	-43000.00	-7.433016	20	PASS

			NV	-20	-43000.00	-7.433016	20	PASS
			NV	-10	-43000.00	-7.433016	20	PASS
			NV	0	-43000.00	-7.433016	20	PASS
			NV	10	-43000.00	-7.433016	20	PASS
			NV	20	-43000.00	-7.433016	20	PASS
			NV	30	-43000.00	-7.433016	20	PASS
			NV	40	-43000.00	-7.433016	20	PASS
			NV	50	-43000.00	-7.433016	20	PASS
		5825	NV	-30	-43000.00	-7.381974	20	PASS
			NV	-20	-43000.00	-7.381974	20	PASS
			NV	-10	-43000.00	-7.381974	20	PASS
			NV	0	-43000.00	-7.381974	20	PASS
			NV	10	-43000.00	-7.381974	20	PASS
			NV	20	-43000.00	-7.381974	20	PASS
			NV	30	-43000.00	-7.381974	20	PASS
			NV	40	-43000.00	-7.381974	20	PASS
11N40SISO	Ant1	5190	NV	-30	-38000.00	-7.321773	20	PASS
			NV	-20	-39000.00	-7.514451	20	PASS
			NV	-10	-39000.00	-7.514451	20	PASS
			NV	0	-38000.00	-7.321773	20	PASS
			NV	10	-38000.00	-7.321773	20	PASS
			NV	20	-38000.00	-7.321773	20	PASS
			NV	30	-38000.00	-7.321773	20	PASS
			NV	40	-39000.00	-7.514451	20	PASS
		5230	NV	50	-38000.00	-7.321773	20	PASS
			NV	-30	-39000.00	-7.456979	20	PASS
			NV	-20	-38000.00	-7.265774	20	PASS
			NV	-10	-38000.00	-7.265774	20	PASS
			NV	0	-39000.00	-7.456979	20	PASS
			NV	10	-39000.00	-7.456979	20	PASS
			NV	20	-39000.00	-7.456979	20	PASS
			NV	30	-39000.00	-7.456979	20	PASS
		5270	NV	40	-39000.00	-7.456979	20	PASS
			NV	50	-39000.00	-7.456979	20	PASS
			NV	-30	-39000.00	-7.400380	20	PASS
			NV	-20	-39000.00	-7.400380	20	PASS
			NV	-10	-39000.00	-7.400380	20	PASS
			NV	0	-39000.00	-7.400380	20	PASS
			NV	10	-39000.00	-7.400380	20	PASS
			NV	20	-39000.00	-7.400380	20	PASS
		5310	NV	30	-39000.00	-7.400380	20	PASS
			NV	40	-39000.00	-7.400380	20	PASS
			NV	50	-39000.00	-7.400380	20	PASS
			NV	-30	-39000.00	-7.344633	20	PASS
			NV	-20	-39000.00	-7.344633	20	PASS
			NV	-10	-39000.00	-7.344633	20	PASS
			NV	0	-39000.00	-7.344633	20	PASS
			NV	10	-39000.00	-7.344633	20	PASS
		5510	NV	20	-39000.00	-7.344633	20	PASS
			NV	30	-39000.00	-7.344633	20	PASS
			NV	40	-39000.00	-7.344633	20	PASS
			NV	50	-39000.00	-7.344633	20	PASS
			NV	-30	-41000.00	-7.441016	20	PASS
			NV	-20	-41000.00	-7.441016	20	PASS
			NV	-10	-41000.00	-7.441016	20	PASS
			NV	0	-40000.00	-7.259528	20	PASS
		5550	NV	10	-41000.00	-7.441016	20	PASS
			NV	20	-41000.00	-7.441016	20	PASS
			NV	30	-41000.00	-7.441016	20	PASS
			NV	40	-41000.00	-7.441016	20	PASS
			NV	50	-41000.00	-7.441016	20	PASS
			NV	-30	-41000.00	-7.387387	20	PASS
			NV	-20	-41000.00	-7.387387	20	PASS
			NV	-10	-41000.00	-7.387387	20	PASS
			NV	0	-41000.00	-7.387387	20	PASS
			NV	10	-41000.00	-7.387387	20	PASS

			NV	20	-41000.00	-7.387387	20	PASS
			NV	30	-41000.00	-7.387387	20	PASS
			NV	40	-41000.00	-7.387387	20	PASS
			NV	50	-41000.00	-7.387387	20	PASS
		5670	NV	-30	-41000.00	-7.231041	20	PASS
			NV	-20	-41000.00	-7.231041	20	PASS
			NV	-10	-41000.00	-7.231041	20	PASS
			NV	0	-41000.00	-7.231041	20	PASS
			NV	10	-41000.00	-7.231041	20	PASS
			NV	20	-41000.00	-7.231041	20	PASS
			NV	30	-41000.00	-7.231041	20	PASS
			NV	40	-41000.00	-7.231041	20	PASS
			NV	50	-41000.00	-7.231041	20	PASS
		5710	NV	-30	-42000.00	-7.355517	20	PASS
			NV	-20	-42000.00	-7.355517	20	PASS
			NV	-10	-42000.00	-7.355517	20	PASS
			NV	0	-41000.00	-7.180385	20	PASS
			NV	10	-41000.00	-7.180385	20	PASS
			NV	20	-41000.00	-7.180385	20	PASS
			NV	30	-42000.00	-7.355517	20	PASS
			NV	40	-41000.00	-7.180385	20	PASS
			NV	50	-41000.00	-7.180385	20	PASS
		5755	NV	-30	-42000.00	-7.298002	20	PASS
			NV	-20	-42000.00	-7.298002	20	PASS
			NV	-10	-42000.00	-7.298002	20	PASS
			NV	0	-42000.00	-7.298002	20	PASS
			NV	10	-42000.00	-7.298002	20	PASS
			NV	20	-42000.00	-7.298002	20	PASS
			NV	30	-42000.00	-7.298002	20	PASS
			NV	40	-42000.00	-7.298002	20	PASS
			NV	50	-42000.00	-7.298002	20	PASS
		5795	NV	-30	-42000.00	-7.247627	20	PASS
			NV	-20	-42000.00	-7.247627	20	PASS
			NV	-10	-42000.00	-7.247627	20	PASS
			NV	0	-42000.00	-7.247627	20	PASS
			NV	10	-42000.00	-7.247627	20	PASS
			NV	20	-42000.00	-7.247627	20	PASS
			NV	30	-42000.00	-7.247627	20	PASS
			NV	40	-42000.00	-7.247627	20	PASS
			NV	50	-42000.00	-7.247627	20	PASS
11AC20SISO	Ant1	5180	NV	-30	-33000.00	-6.370656	20	PASS
			NV	-20	-32000.00	-6.177606	20	PASS
			NV	-10	-33000.00	-6.370656	20	PASS
			NV	0	-33000.00	-6.370656	20	PASS
			NV	10	-32000.00	-6.177606	20	PASS
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			NV	50	-38000.00	-7.307692	20	PASS
		5240	NV	-30	-39000.00	-7.442748	20	PASS
			NV	-20	-39000.00	-7.442748	20	PASS
			NV	-10	-39000.00	-7.442748	20	PASS
			NV	0	-39000.00	-7.442748	20	PASS
			NV	10	-38000.00	-7.251908	20	PASS
			NV	20	-38000.00	-7.251908	20	PASS
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			NV	50	-38000.00	-7.251908	20	PASS

5260	NV	-30	-39000.00	-7.414449	20	PASS
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	NV	-10	-39000.00	-7.414449	20	PASS
	NV	0	-39000.00	-7.414449	20	PASS
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	NV	40	-39000.00	-7.414449	20	PASS
5280	NV	50	-39000.00	-7.414449	20	PASS
	NV	-30	-39000.00	-7.386364	20	PASS
	NV	-20	-39000.00	-7.386364	20	PASS
	NV	-10	-39000.00	-7.386364	20	PASS
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	NV	30	-39000.00	-7.386364	20	PASS
5320	NV	40	-39000.00	-7.386364	20	PASS
	NV	50	-39000.00	-7.386364	20	PASS
	NV	-30	-39000.00	-7.330827	20	PASS
	NV	-20	-39000.00	-7.330827	20	PASS
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	NV	20	-39000.00	-7.330827	20	PASS
5500	NV	30	-39000.00	-7.330827	20	PASS
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	NV	50	-39000.00	-7.330827	20	PASS
	NV	-30	-40000.00	-7.272727	20	PASS
	NV	-20	-40000.00	-7.272727	20	PASS
	NV	-10	-41000.00	-7.454545	20	PASS
	NV	0	-41000.00	-7.454545	20	PASS
	NV	10	-40000.00	-7.272727	20	PASS
5580	NV	20	-41000.00	-7.454545	20	PASS
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	NV	40	-41000.00	-7.454545	20	PASS
	NV	50	-41000.00	-7.454545	20	PASS
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	NV	-20	-41000.00	-7.347670	20	PASS
	NV	-10	-41000.00	-7.347670	20	PASS
	NV	0	-41000.00	-7.347670	20	PASS
5700	NV	10	-41000.00	-7.347670	20	PASS
	NV	20	-41000.00	-7.347670	20	PASS
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	NV	-20	-42000.00	-7.368421	20	PASS
	NV	-10	-42000.00	-7.368421	20	PASS
5720	NV	0	-42000.00	-7.368421	20	PASS
	NV	10	-42000.00	-7.368421	20	PASS
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	NV	-20	-43000.00	-7.517483	20	PASS
5745	NV	-10	-42000.00	-7.342657	20	PASS
	NV	0	-42000.00	-7.342657	20	PASS
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	NV	-30	-42000.00	-7.310705	20	PASS
5745	NV	-20	-43000.00	-7.484769	20	PASS
	NV	-10	-42000.00	-7.310705	20	PASS
	NV	0	-42000.00	-7.310705	20	PASS
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			NV	40	-43000.00	-7.484769	20	PASS
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		5785	NV	-30	-42000.00	-7.260156	20	PASS
			NV	-20	-43000.00	-7.433016	20	PASS
			NV	-10	-43000.00	-7.433016	20	PASS
			NV	0	-43000.00	-7.433016	20	PASS
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			NV	50	-43000.00	-7.433016	20	PASS
		5825	NV	-30	-42000.00	-7.210300	20	PASS
			NV	-20	-43000.00	-7.381974	20	PASS
			NV	-10	-42000.00	-7.210300	20	PASS
			NV	0	-42000.00	-7.210300	20	PASS
			NV	10	-43000.00	-7.381974	20	PASS
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			NV	40	-42000.00	-7.210300	20	PASS
11AC40SISO	Ant1	5190	NV	-30	-38000.00	-7.321773	20	PASS
			NV	-20	-38000.00	-7.321773	20	PASS
			NV	-10	-38000.00	-7.321773	20	PASS
			NV	0	-38000.00	-7.321773	20	PASS
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			NV	30	-38000.00	-7.321773	20	PASS
			NV	40	-38000.00	-7.321773	20	PASS
		5230	NV	50	-38000.00	-7.321773	20	PASS
			NV	-30	-39000.00	-7.456979	20	PASS
			NV	-20	-38000.00	-7.265774	20	PASS
			NV	-10	-38000.00	-7.265774	20	PASS
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			NV	30	-38000.00	-7.265774	20	PASS
		5270	NV	40	-38000.00	-7.265774	20	PASS
			NV	50	-38000.00	-7.265774	20	PASS
			NV	-30	-38000.00	-7.210626	20	PASS
			NV	-20	-38000.00	-7.210626	20	PASS
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			NV	20	-40000.00	-7.259528	20	PASS
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			NV	-30	-40000.00	-7.207207	20	PASS
			NV	-20	-40000.00	-7.207207	20	PASS
			NV	-10	-40000.00	-7.207207	20	PASS
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			NV	40	-40000.00	-7.207207	20	PASS
		5670	NV	50	-40000.00	-7.207207	20	PASS
			NV	-30	-40000.00	-7.054674	20	PASS
			NV	-20	-40000.00	-7.054674	20	PASS
			NV	-10	-40000.00	-7.054674	20	PASS
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		5710	NV	50	-40000.00	-7.054674	20	PASS
			NV	-30	-41000.00	-7.180385	20	PASS
			NV	-20	-40000.00	-7.005254	20	PASS
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			NV	0	-40000.00	-7.005254	20	PASS
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			NV	40	-41000.00	-7.180385	20	PASS
		5755	NV	50	-41000.00	-7.180385	20	PASS
			NV	-30	-41000.00	-7.124240	20	PASS
			NV	-20	-41000.00	-7.124240	20	PASS
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		5795	NV	50	-41000.00	-7.124240	20	PASS
			NV	-30	-41000.00	-7.075065	20	PASS
			NV	-20	-41000.00	-7.075065	20	PASS
			NV	-10	-41000.00	-7.075065	20	PASS
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			NV	40	-41000.00	-7.075065	20	PASS
11AC80SISO	Ant1	5210	NV	50	-41000.00	-7.075065	20	PASS
			NV	-30	-37000.00	-7.101727	20	PASS
			NV	-20	-37000.00	-7.101727	20	PASS
			NV	-10	-37000.00	-7.101727	20	PASS
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			NV	40	-37000.00	-7.101727	20	PASS
		5290	NV	50	-37000.00	-7.101727	20	PASS
			NV	-30	-37000.00	-6.994329	20	PASS
			NV	-20	-37000.00	-6.994329	20	PASS
			NV	-10	-37000.00	-6.994329	20	PASS
			NV	0	-38000.00	-7.183365	20	PASS
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			NV	20	-38000.00	-7.183365	20	PASS
			NV	30	-38000.00	-7.183365	20	PASS
			NV	40	-38000.00	-7.183365	20	PASS
		5530	NV	50	-38000.00	-7.183365	20	PASS
			NV	-30	-41000.00	-7.414105	20	PASS
			NV	-20	-41000.00	-7.414105	20	PASS
			NV	-10	-42000.00	-7.594937	20	PASS

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			NV	30	-42000.00	-7.594937	20	PASS
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		5610	NV	-30	-43000.00	-7.664884	20	PASS
			NV	-20	-37000.00	-6.595365	20	PASS
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		5690	NV	50	-37000.00	-6.595365	20	PASS
			NV	-30	-38000.00	-6.678383	20	PASS
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		5775	NV	40	-38000.00	-6.678383	20	PASS
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			NV	-30	-39000.00	-6.753247	20	PASS
			NV	-20	-39000.00	-6.753247	20	PASS
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			NV	0	-39000.00	-6.753247	20	PASS
			NV	10	-39000.00	-6.753247	20	PASS
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11AX20SISO	Ant1	5180	NV	30	-39000.00	-6.753247	20	PASS
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			NV	-30	-38000.00	-7.335907	20	PASS
			NV	-20	-38000.00	-7.335907	20	PASS
			NV	-10	-37000.00	-7.142857	20	PASS
			NV	0	-37000.00	-7.142857	20	PASS
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			NV	20	-38000.00	-7.335907	20	PASS
			NV	30	-38000.00	-7.335907	20	PASS
		5200	NV	40	-38000.00	-7.335907	20	PASS
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			NV	-20	-38000.00	-7.307692	20	PASS
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			NV	-20	-38000.00	-7.142857	20	PASS
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		5500	NV	-30	-40000.00	-7.272727	20	PASS
			NV	-20	-39000.00	-7.090909	20	PASS
			NV	-10	-40000.00	-7.272727	20	PASS
			NV	0	-40000.00	-7.272727	20	PASS
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			NV	50	-40000.00	-7.168459	20	PASS
		5700	NV	-30	-41000.00	-7.192982	20	PASS
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		5720	NV	-30	-41000.00	-7.167832	20	PASS
			NV	-20	-41000.00	-7.167832	20	PASS
			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	-41000.00	-7.167832	20	PASS
			NV	50	-41000.00	-7.167832	20	PASS
		5745	NV	-30	-41000.00	-7.136641	20	PASS
			NV	-20	-41000.00	-7.136641	20	PASS
			NV	-10	-41000.00	-7.136641	20	PASS
			NV	0	-41000.00	-7.136641	20	PASS
			NV	10	-41000.00	-7.136641	20	PASS
			NV	20	-41000.00	-7.136641	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	-42000.00	-7.260156	20	PASS
			NV	-20	-42000.00	-7.260156	20	PASS

			NV	-10	-41000.00	-7.087295	20	PASS
			NV	0	-42000.00	-7.260156	20	PASS
			NV	10	-41000.00	-7.087295	20	PASS
			NV	20	-41000.00	-7.087295	20	PASS
			NV	30	-42000.00	-7.260156	20	PASS
			NV	40	-42000.00	-7.260156	20	PASS
			NV	50	-42000.00	-7.260156	20	PASS
		5825	NV	-30	-42000.00	-7.210300	20	PASS
			NV	-20	-42000.00	-7.210300	20	PASS
			NV	-10	-42000.00	-7.210300	20	PASS
			NV	0	-42000.00	-7.210300	20	PASS
			NV	10	-42000.00	-7.210300	20	PASS
			NV	20	-42000.00	-7.210300	20	PASS
			NV	30	-42000.00	-7.210300	20	PASS
			NV	40	-42000.00	-7.210300	20	PASS
			NV	50	-42000.00	-7.210300	20	PASS
11AX40SISO	Ant1	5190	NV	-30	-37000.00	-7.129094	20	PASS
			NV	-20	-37000.00	-7.129094	20	PASS
			NV	-10	-37000.00	-7.129094	20	PASS
			NV	0	-37000.00	-7.129094	20	PASS
			NV	10	-37000.00	-7.129094	20	PASS
			NV	20	-37000.00	-7.129094	20	PASS
			NV	30	-37000.00	-7.129094	20	PASS
			NV	40	-37000.00	-7.129094	20	PASS
			NV	50	-37000.00	-7.129094	20	PASS
		5230	NV	-30	-37000.00	-7.074570	20	PASS
			NV	-20	-37000.00	-7.074570	20	PASS
			NV	-10	-38000.00	-7.265774	20	PASS
			NV	0	-37000.00	-7.074570	20	PASS
			NV	10	-37000.00	-7.074570	20	PASS
			NV	20	-37000.00	-7.074570	20	PASS
			NV	30	-37000.00	-7.074570	20	PASS
			NV	40	-37000.00	-7.074570	20	PASS
			NV	50	-37000.00	-7.074570	20	PASS
		5270	NV	-30	-38000.00	-7.210626	20	PASS
			NV	-20	-38000.00	-7.210626	20	PASS
			NV	-10	-38000.00	-7.210626	20	PASS
			NV	0	-38000.00	-7.210626	20	PASS
			NV	10	-37000.00	-7.020873	20	PASS
			NV	20	-37000.00	-7.020873	20	PASS
			NV	30	-37000.00	-7.020873	20	PASS
			NV	40	-38000.00	-7.210626	20	PASS
			NV	50	-38000.00	-7.210626	20	PASS
		5310	NV	-30	-38000.00	-7.156309	20	PASS
			NV	-20	-38000.00	-7.156309	20	PASS
			NV	-10	-38000.00	-7.156309	20	PASS
			NV	0	-37000.00	-6.967985	20	PASS
			NV	10	-38000.00	-7.156309	20	PASS
			NV	20	-38000.00	-7.156309	20	PASS
			NV	30	-38000.00	-7.156309	20	PASS
			NV	40	-38000.00	-7.156309	20	PASS
			NV	50	-38000.00	-7.156309	20	PASS
		5510	NV	-30	-39000.00	-7.078040	20	PASS
			NV	-20	-39000.00	-7.078040	20	PASS
			NV	-10	-39000.00	-7.078040	20	PASS
			NV	0	-39000.00	-7.078040	20	PASS
			NV	10	-39000.00	-7.078040	20	PASS
			NV	20	-39000.00	-7.078040	20	PASS
			NV	30	-39000.00	-7.078040	20	PASS
			NV	40	-39000.00	-7.078040	20	PASS
			NV	50	-39000.00	-7.078040	20	PASS
		5550	NV	-30	-39000.00	-7.027027	20	PASS
			NV	-20	-40000.00	-7.207207	20	PASS
			NV	-10	-39000.00	-7.027027	20	PASS
			NV	0	-40000.00	-7.207207	20	PASS
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			NV	20	-40000.00	-7.207207	20	PASS

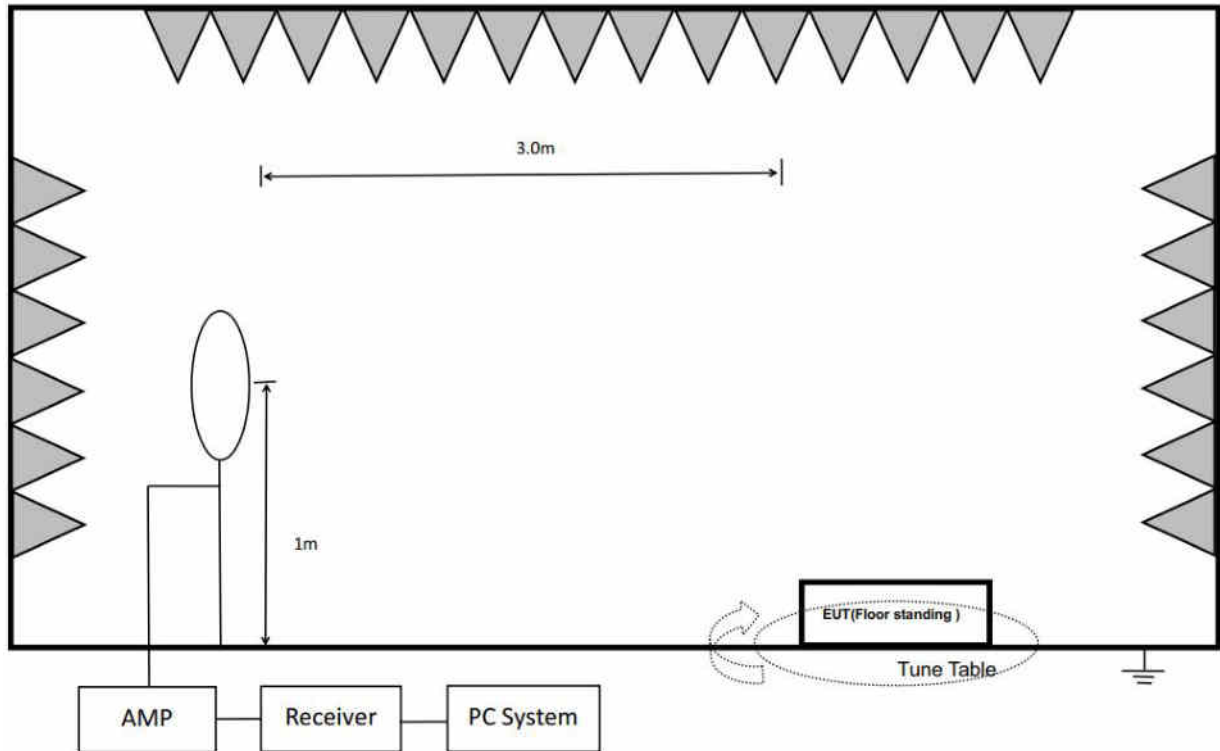
			NV	30	-40000.00	-7.207207	20	PASS
			NV	40	-40000.00	-7.207207	20	PASS
			NV	50	-40000.00	-7.207207	20	PASS
		5670	NV	-30	-41000.00	-7.231041	20	PASS
			NV	-20	-41000.00	-7.231041	20	PASS
			NV	-10	-41000.00	-7.231041	20	PASS
			NV	0	-41000.00	-7.231041	20	PASS
			NV	10	-40000.00	-7.054674	20	PASS
			NV	20	-41000.00	-7.231041	20	PASS
			NV	30	-40000.00	-7.054674	20	PASS
			NV	40	-41000.00	-7.231041	20	PASS
			NV	50	-41000.00	-7.231041	20	PASS
		5710	NV	-30	-41000.00	-7.180385	20	PASS
			NV	-20	-41000.00	-7.180385	20	PASS
			NV	-10	-41000.00	-7.180385	20	PASS
			NV	0	-41000.00	-7.180385	20	PASS
			NV	10	-41000.00	-7.180385	20	PASS
			NV	20	-41000.00	-7.180385	20	PASS
			NV	30	-41000.00	-7.180385	20	PASS
			NV	40	-41000.00	-7.180385	20	PASS
			NV	50	-41000.00	-7.180385	20	PASS
		5755	NV	-30	-41000.00	-7.124240	20	PASS
			NV	-20	-41000.00	-7.124240	20	PASS
			NV	-10	-41000.00	-7.124240	20	PASS
			NV	0	-41000.00	-7.124240	20	PASS
			NV	10	-41000.00	-7.124240	20	PASS
			NV	20	-41000.00	-7.124240	20	PASS
			NV	30	-41000.00	-7.124240	20	PASS
			NV	40	-41000.00	-7.124240	20	PASS
			NV	50	-41000.00	-7.124240	20	PASS
		5795	NV	-30	-42000.00	-7.247627	20	PASS
			NV	-20	-42000.00	-7.247627	20	PASS
			NV	-10	-42000.00	-7.247627	20	PASS
			NV	0	-42000.00	-7.247627	20	PASS
			NV	10	-42000.00	-7.247627	20	PASS
			NV	20	-42000.00	-7.247627	20	PASS
			NV	30	-42000.00	-7.247627	20	PASS
			NV	40	-42000.00	-7.247627	20	PASS
			NV	50	-42000.00	-7.247627	20	PASS
11AX80SISO	Ant1	5210	NV	-30	-38000.00	-7.293666	20	PASS
			NV	-20	-38000.00	-7.293666	20	PASS
			NV	-10	-38000.00	-7.293666	20	PASS
			NV	0	-37000.00	-7.101727	20	PASS
			NV	10	-38000.00	-7.293666	20	PASS
			NV	20	-37000.00	-7.101727	20	PASS
			NV	30	-38000.00	-7.293666	20	PASS
			NV	40	-37000.00	-7.101727	20	PASS
			NV	50	-38000.00	-7.293666	20	PASS
		5290	NV	-30	-38000.00	-7.183365	20	PASS
			NV	-20	-38000.00	-7.183365	20	PASS
			NV	-10	-38000.00	-7.183365	20	PASS
			NV	0	-39000.00	-7.372401	20	PASS
			NV	10	-38000.00	-7.183365	20	PASS
			NV	20	-38000.00	-7.183365	20	PASS
			NV	30	-38000.00	-7.183365	20	PASS
			NV	40	-39000.00	-7.372401	20	PASS
			NV	50	-38000.00	-7.183365	20	PASS
		5530	NV	-30	-40000.00	-7.233273	20	PASS
			NV	-20	-40000.00	-7.233273	20	PASS
			NV	-10	-40000.00	-7.233273	20	PASS
			NV	0	-40000.00	-7.233273	20	PASS
			NV	10	-40000.00	-7.233273	20	PASS
			NV	20	-40000.00	-7.233273	20	PASS
			NV	30	-40000.00	-7.233273	20	PASS
			NV	40	-40000.00	-7.233273	20	PASS
			NV	50	-40000.00	-7.233273	20	PASS
		5610	NV	-30	-41000.00	-7.308378	20	PASS

			NV	-20	-41000.00	-7.308378	20	PASS
			NV	-10	-40000.00	-7.130125	20	PASS
			NV	0	-40000.00	-7.130125	20	PASS
			NV	10	-41000.00	-7.308378	20	PASS
			NV	20	-41000.00	-7.308378	20	PASS
			NV	30	-41000.00	-7.308378	20	PASS
			NV	40	-41000.00	-7.308378	20	PASS
			NV	50	-41000.00	-7.308378	20	PASS
		5690	NV	-30	-41000.00	-7.205624	20	PASS
			NV	-20	-41000.00	-7.205624	20	PASS
			NV	-10	-41000.00	-7.205624	20	PASS
			NV	0	-41000.00	-7.205624	20	PASS
			NV	10	-41000.00	-7.205624	20	PASS
			NV	20	-41000.00	-7.205624	20	PASS
			NV	30	-41000.00	-7.205624	20	PASS
			NV	40	-41000.00	-7.205624	20	PASS
		5775	NV	50	-41000.00	-7.205624	20	PASS
			NV	-30	-42000.00	-7.272727	20	PASS
			NV	-20	-42000.00	-7.272727	20	PASS
			NV	-10	-42000.00	-7.272727	20	PASS
			NV	0	-42000.00	-7.272727	20	PASS
			NV	10	-42000.00	-7.272727	20	PASS
			NV	20	-42000.00	-7.272727	20	PASS
			NV	30	-42000.00	-7.272727	20	PASS
			NV	40	-42000.00	-7.272727	20	PASS
			NV	50	-42000.00	-7.272727	20	PASS

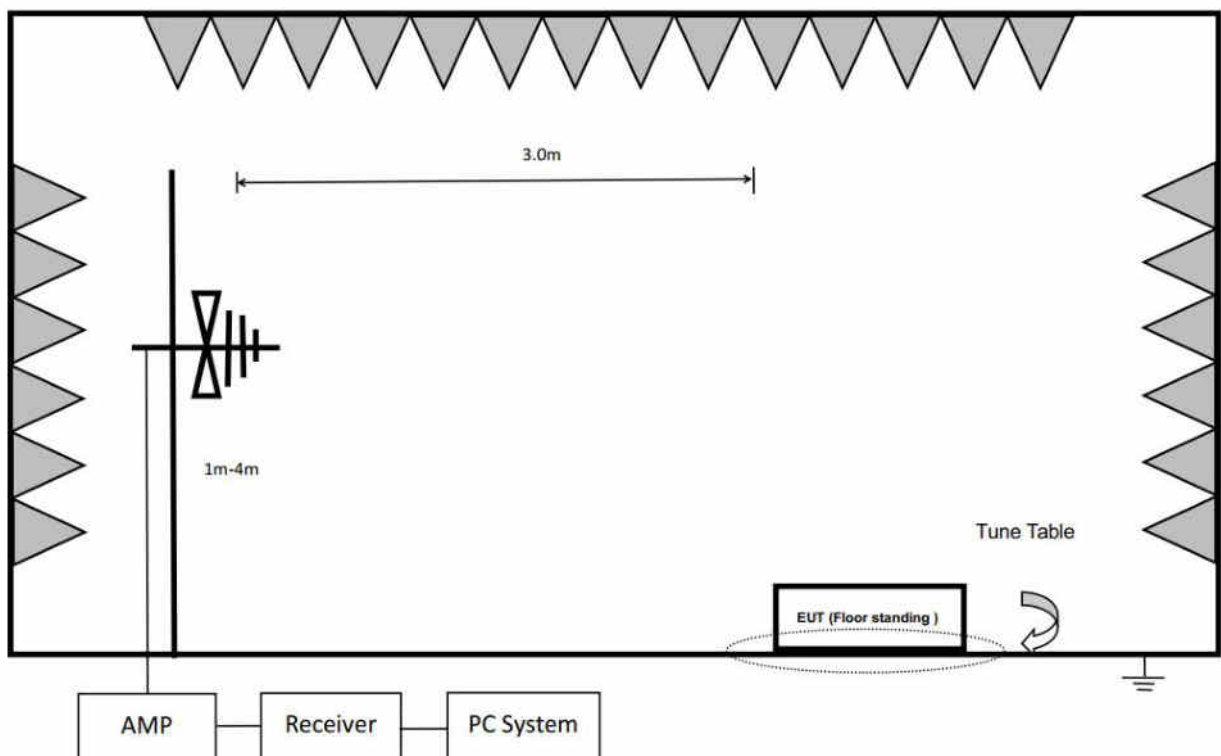
13. Radiated Emission

13.1. Block Diagram of Test Setup

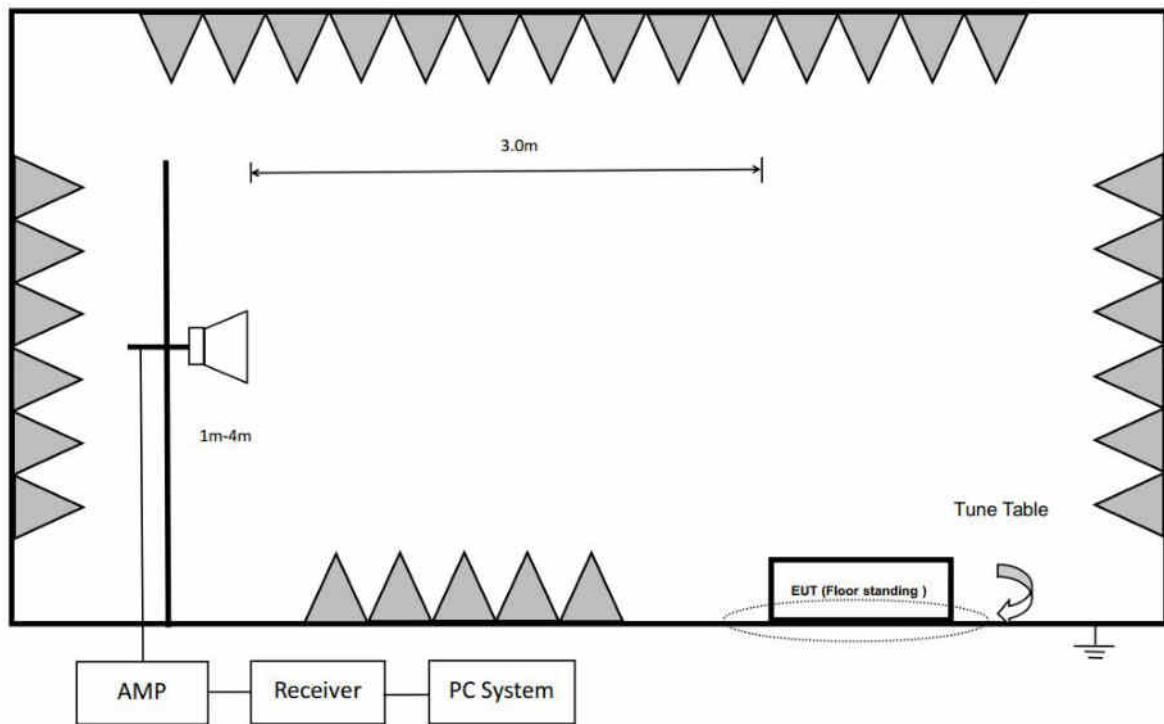
In 3m Anechoic Chamber, test setup diagram for 9kHz - 30MHz:



In 3m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

13.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field strengths limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm / MHz.

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(6) The provisions of §15.205 apply to intentional radiators operating under this section.

-27 dBm/MHz Limit=95.2+EIRP (dBm)=95.2-27=68.2 dB $\mu\text{V}/\text{m}$

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

13.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KdB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

7. Restriction band: Investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

13.4. Test Result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 11AC40 mode.

Note3: For below test data, when the limit tabular marked “/” means this frequency point is the fundamental emission and no need comply with this limit.

Note 4: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Note 5: For emissions Above 1 GHz, all mode have been tested, 11AC40 is worse case and recorded in report.

13.5. Original Test Data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B









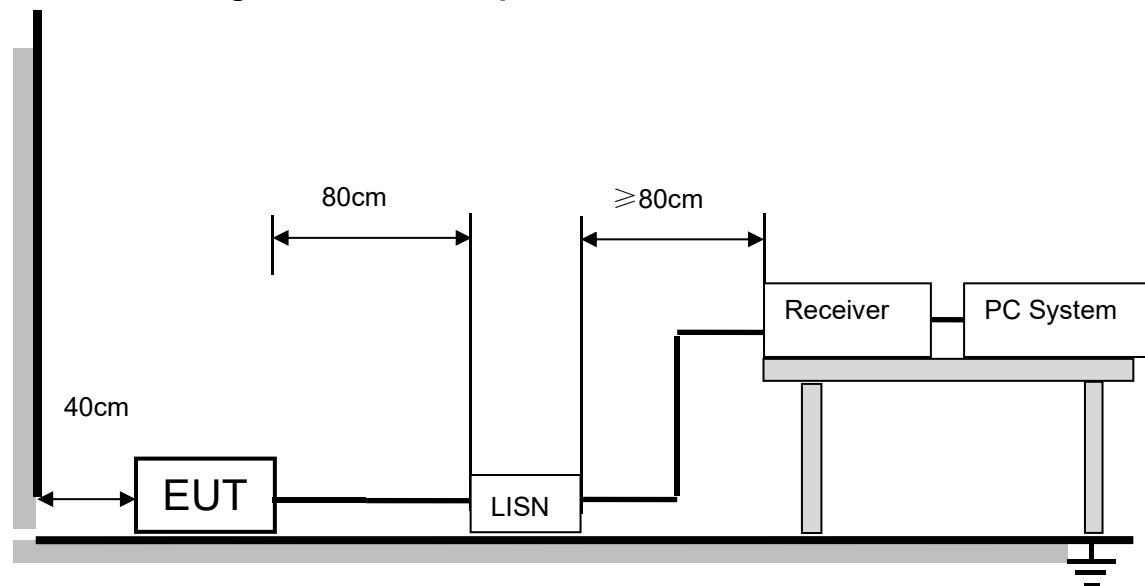






14. AC Power Line Conducted Emissions

14.1. Block Diagram of Test Setup



The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

14.2. Limits

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8.

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.3. Test Procedure

The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.