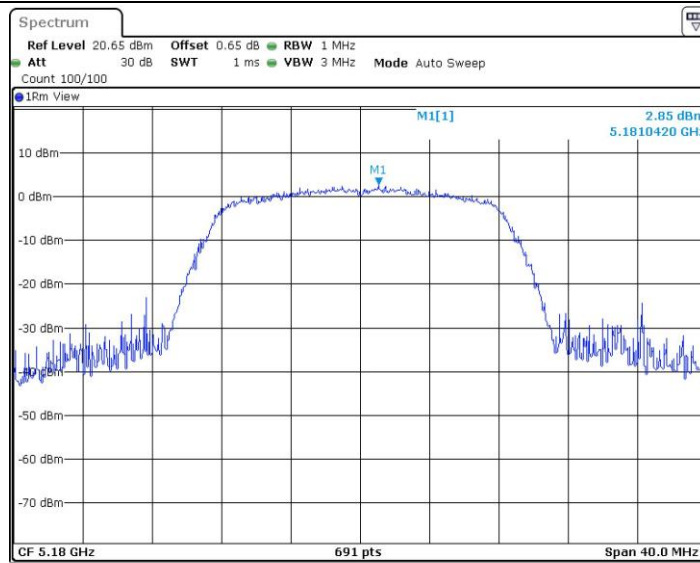
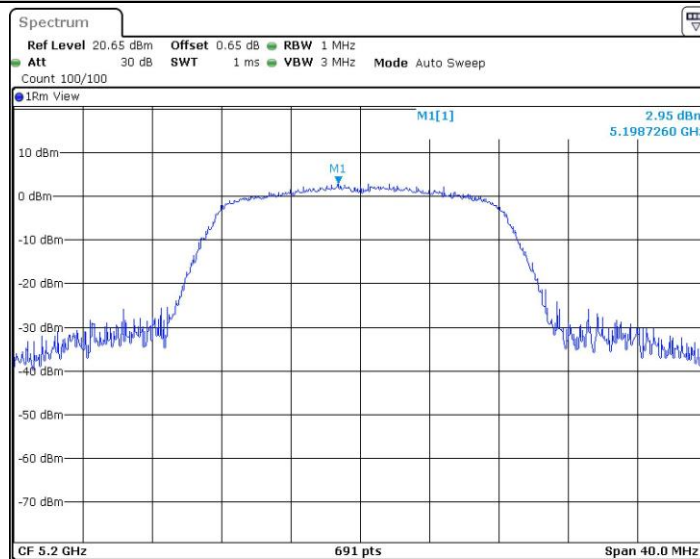


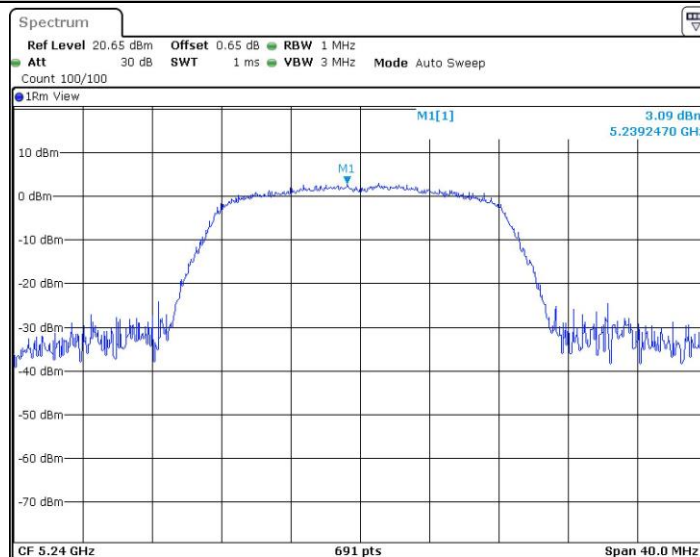
Test Graphs



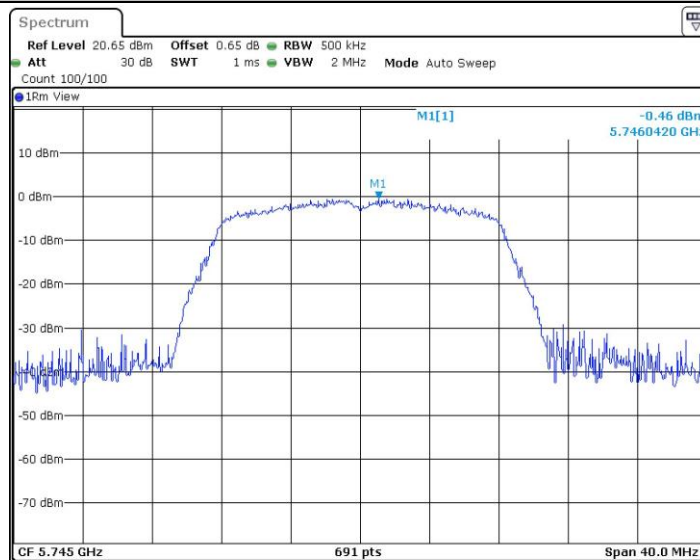
11A_Ant1_5180



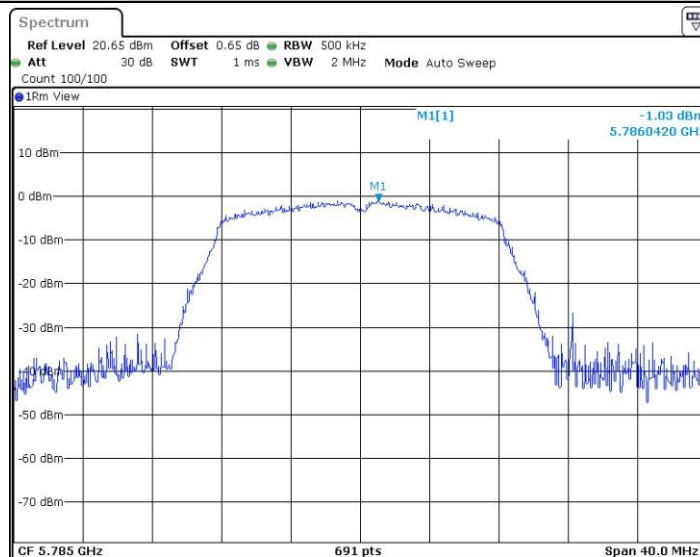
11A_Ant1_5200



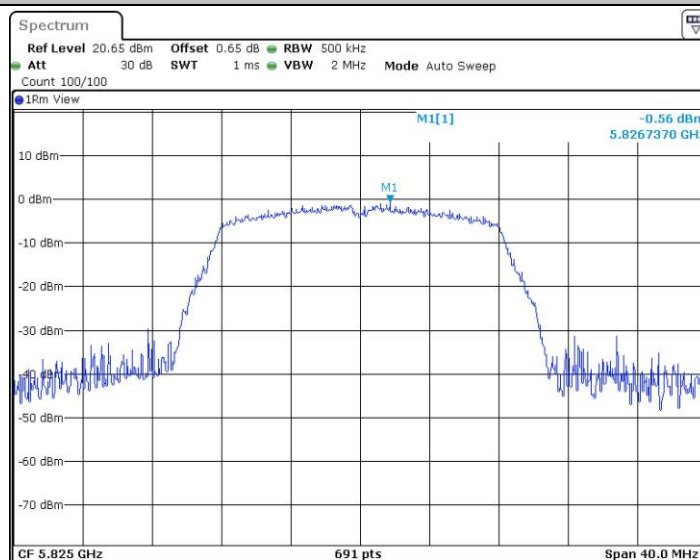
11A_Ant1_5240



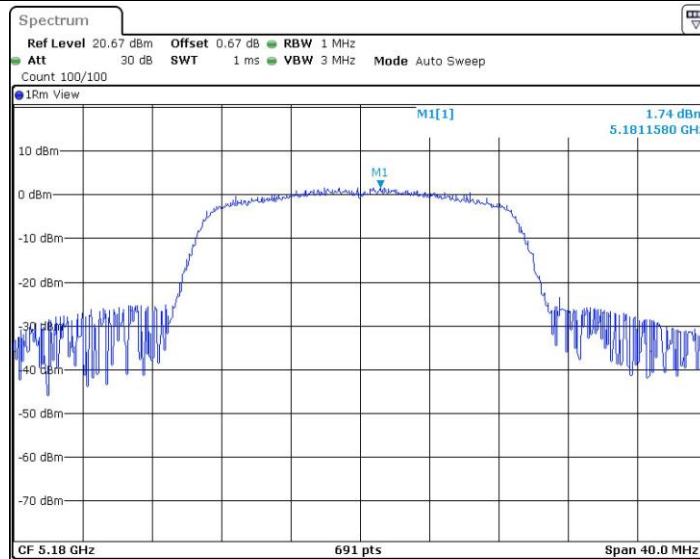
11A_Ant1_5745



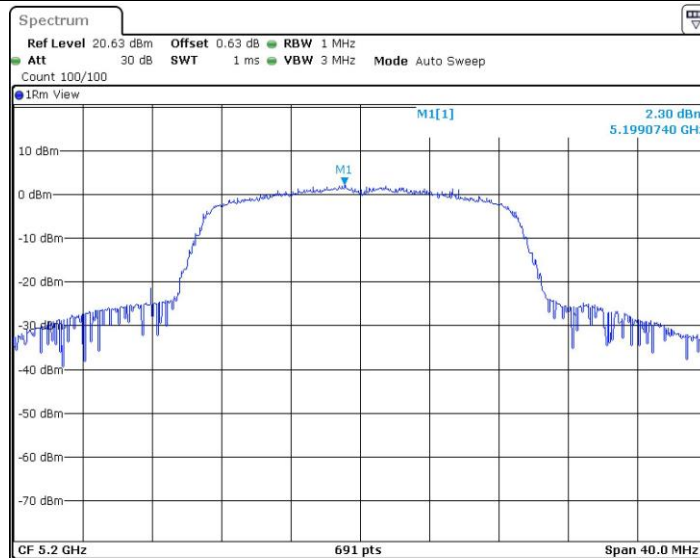
11A_Ant1_5785



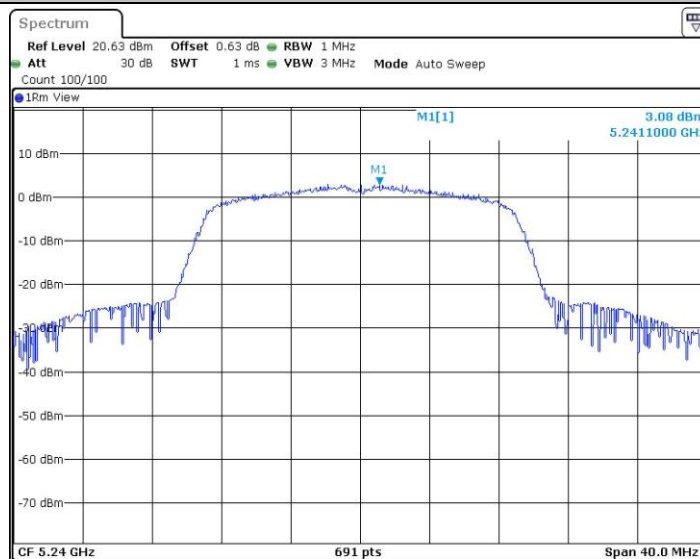
11A_Ant1_5825



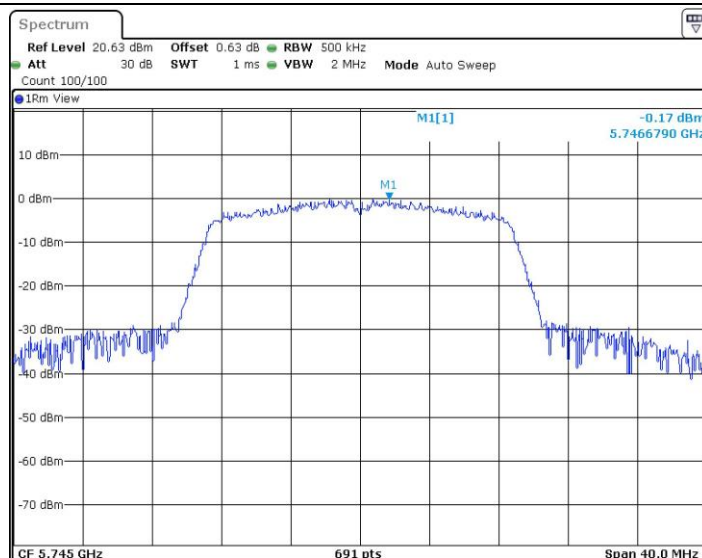
11N20SISO_Ant1_5180



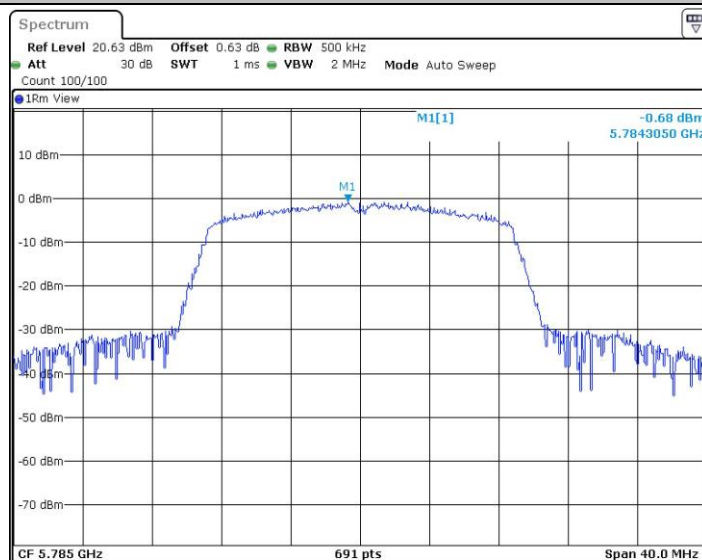
11N20SISO_Ant1_5200



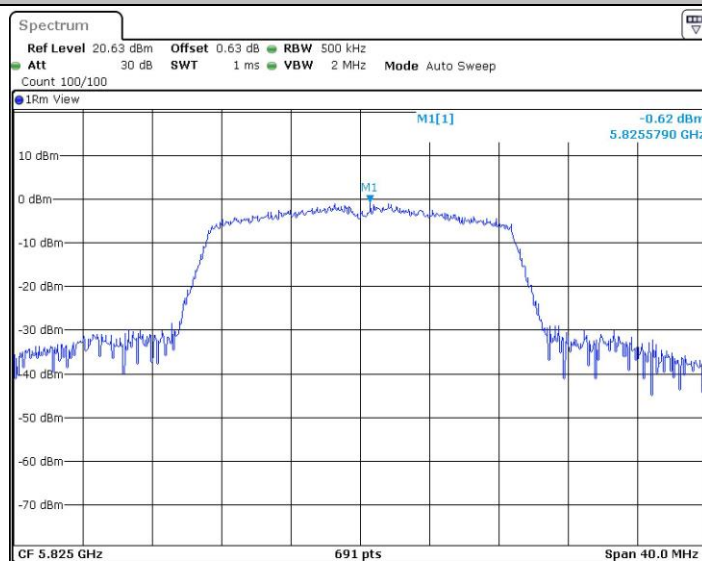
11N20SISO_Ant1_5240



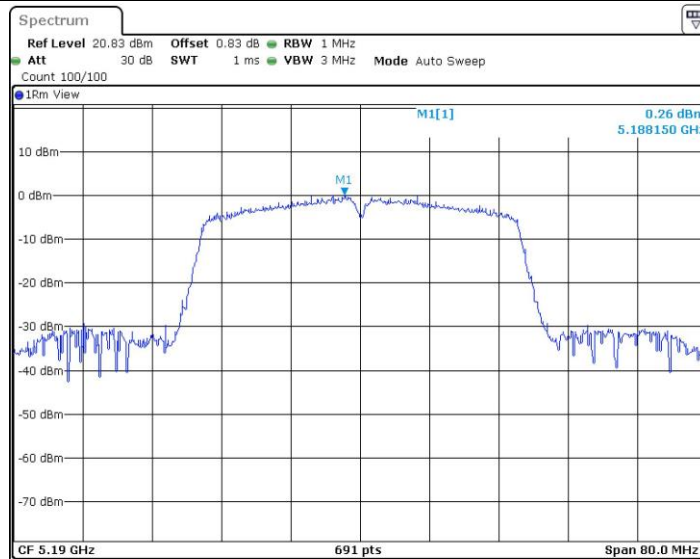
11N20SISO_Ant1_5745



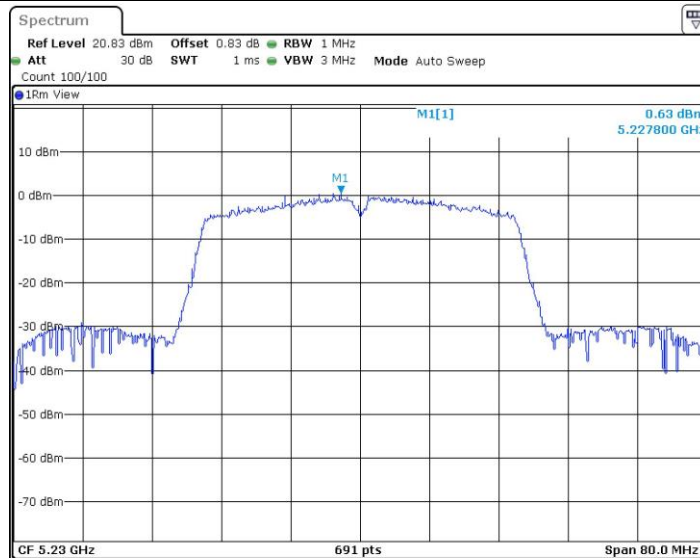
11N20SISO_Ant1_5785



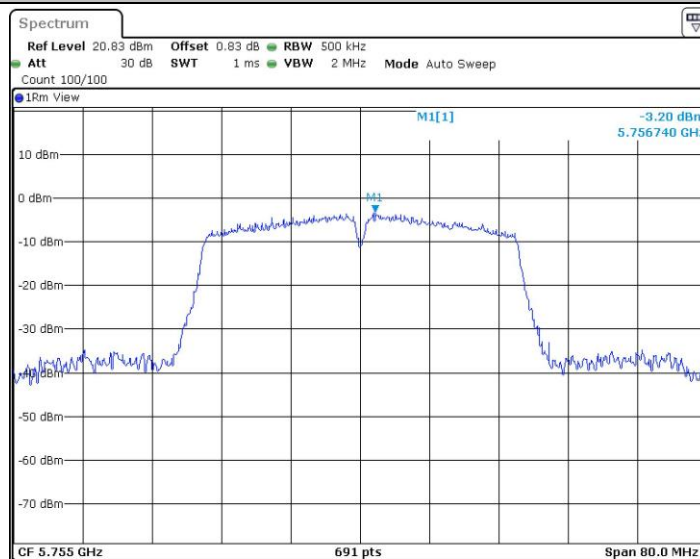
11N20SISO_Ant1_5825



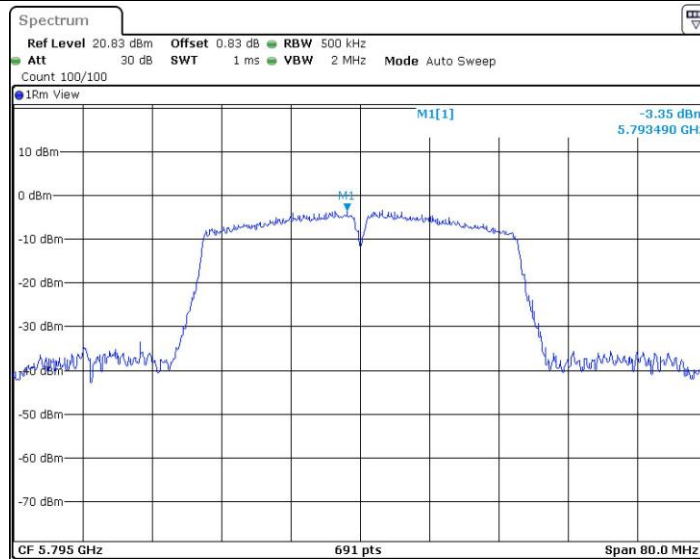
11N40SISO_Ant1_5190



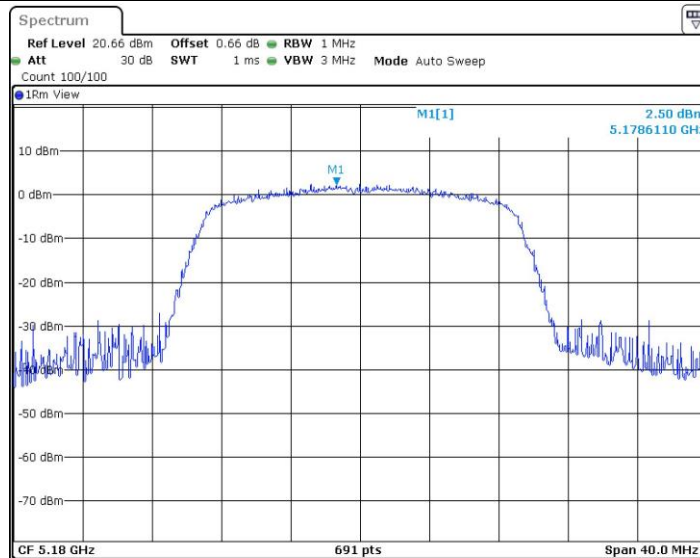
11N40SISO_Ant1_5230



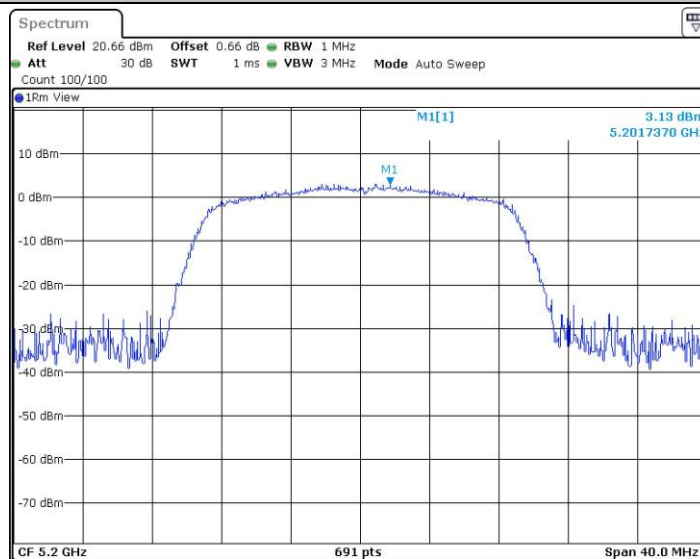
11N40SISO_Ant1_5755



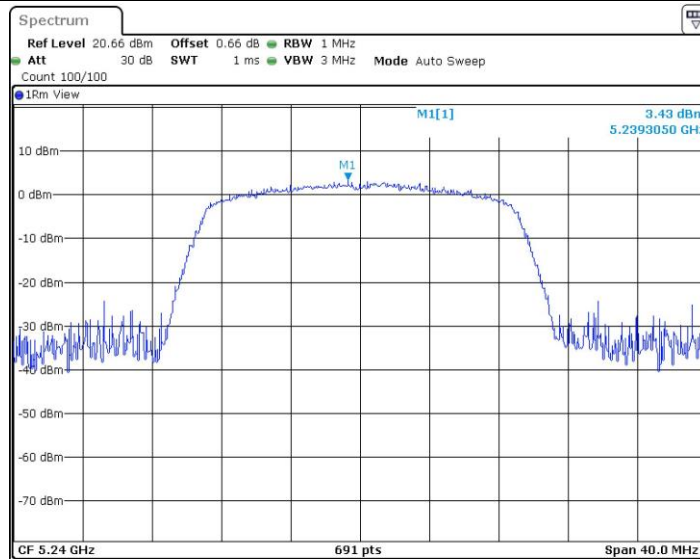
11N40SISO_Ant1_5795



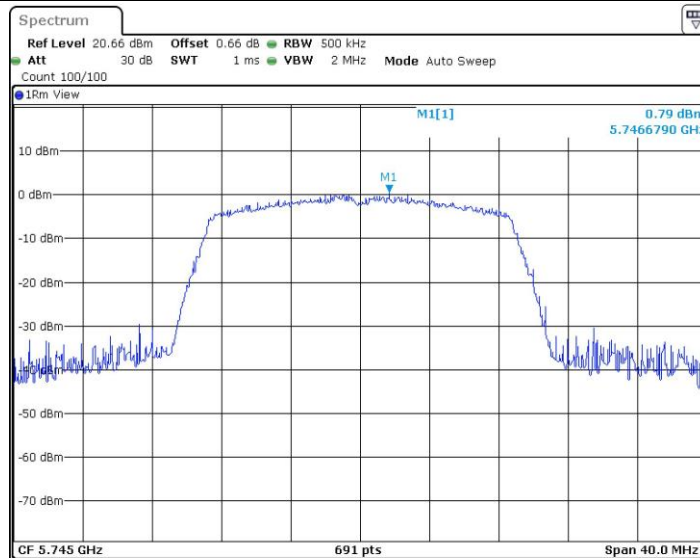
11AC20SISO_Ant1_5180



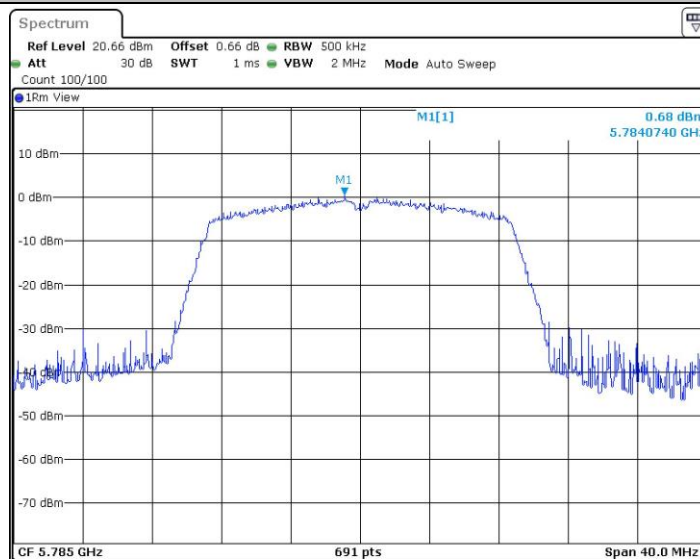
11AC20SISO_Ant1_5200



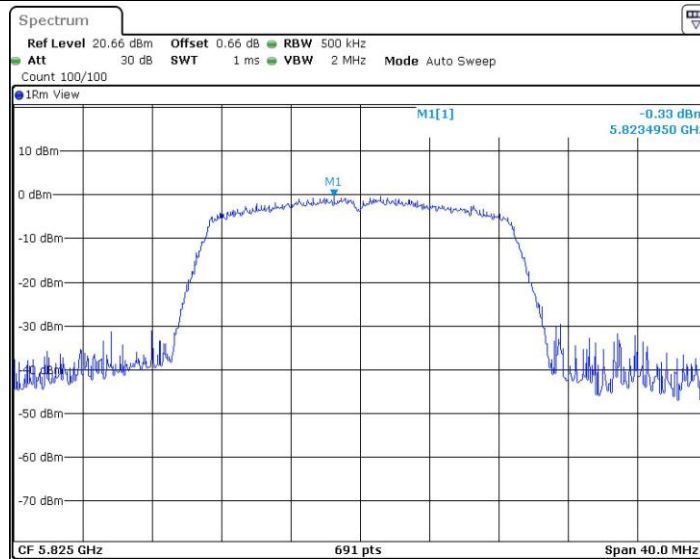
11AC20SISO_Ant1_5240



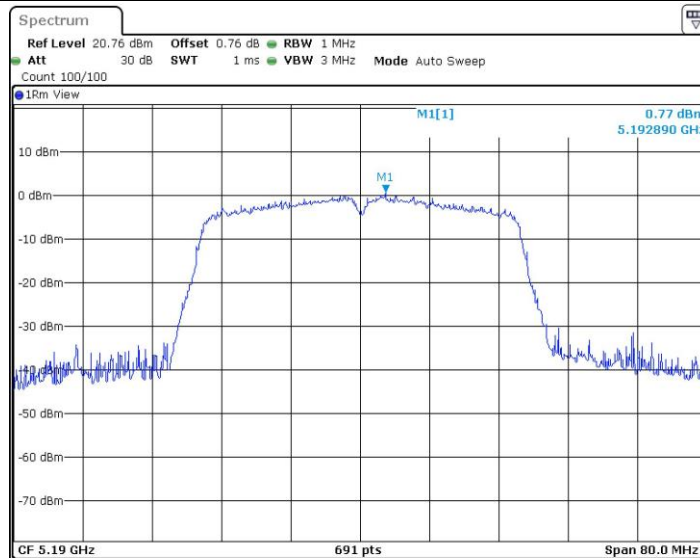
11AC20SISO_Ant1_5745



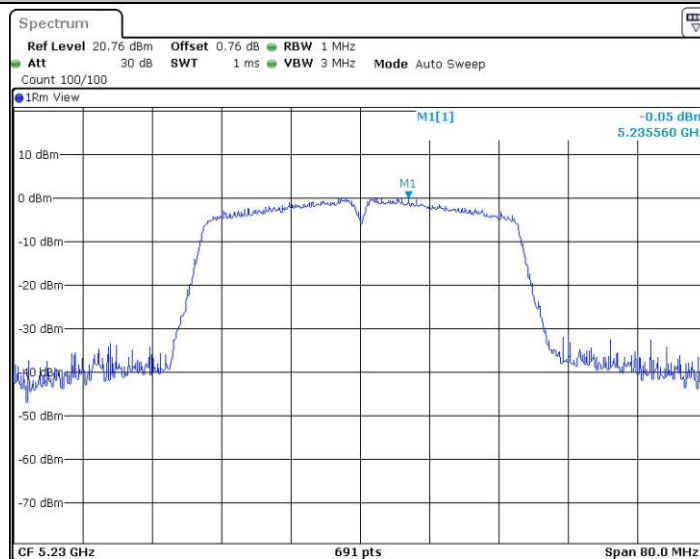
11AC20SISO_Ant1_5785



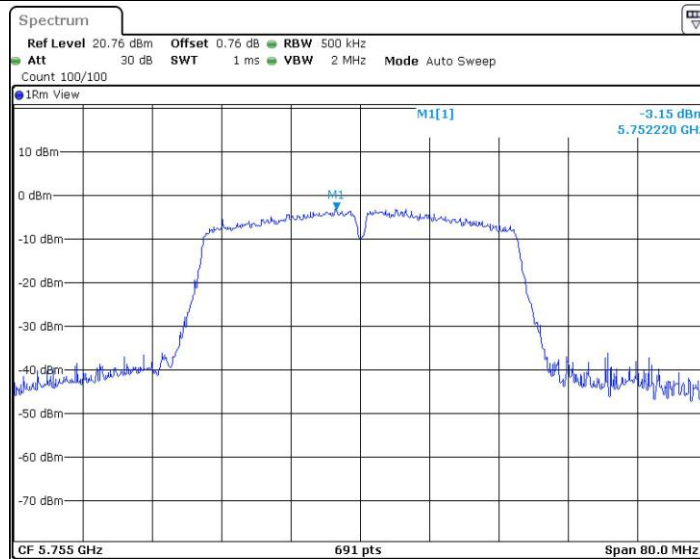
11AC20SISO_Ant1_5825



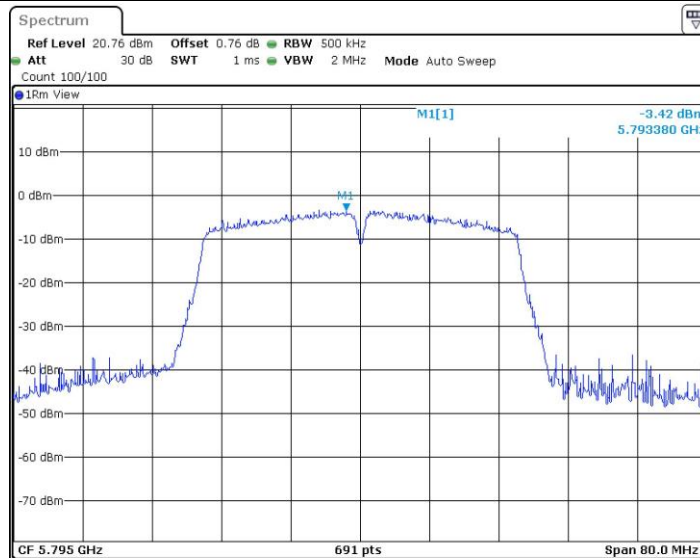
11AC40SISO_Ant1_5190



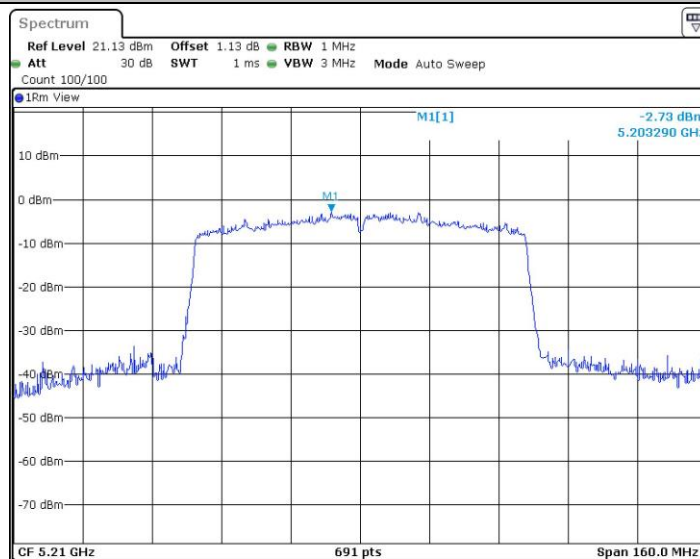
11AC40SISO_Ant1_5230



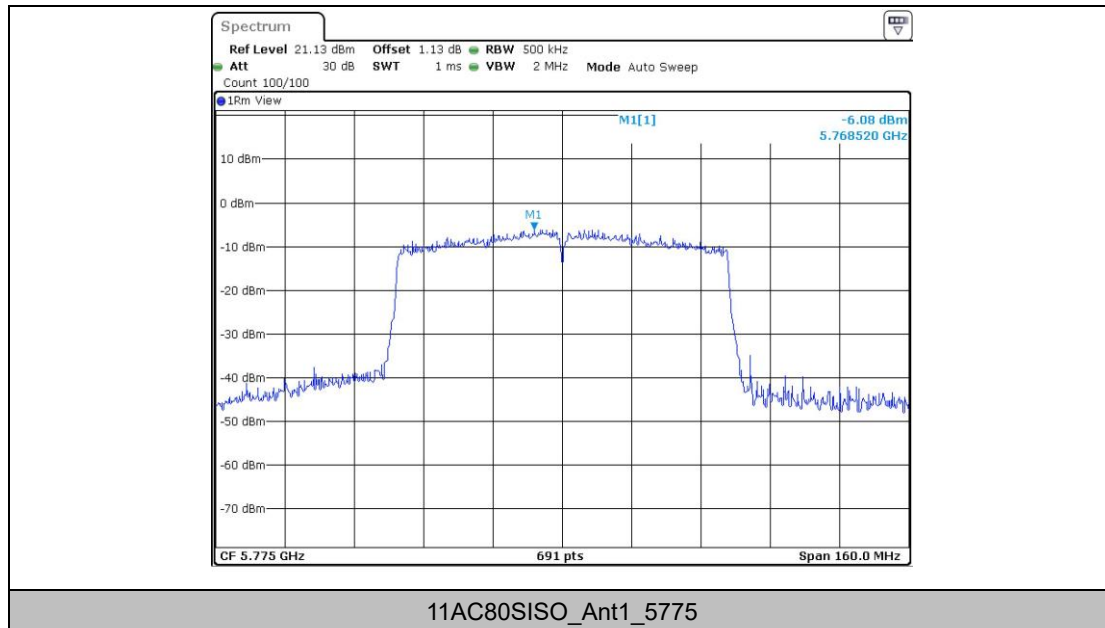
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



Appendix D: Frequency Stability

Test Result

Voltage							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	5180	NV	NT	-20000	-3.861004	20	PASS
		LV	NT	-20000	-3.861004	20	PASS
		HV	NT	-20000	-3.861004	20	PASS
	5200	NV	NT	-20000	-3.846154	20	PASS
		LV	NT	-20000	-3.846154	20	PASS
		HV	NT	-20000	-3.846154	20	PASS
	5240	NV	NT	-20000	-3.816794	20	PASS
		LV	NT	-20000	-3.816794	20	PASS
		HV	NT	-20000	-3.816794	20	PASS
	5745	NV	NT	0	0	20	PASS
		LV	NT	-20000	-3.481288	20	PASS
		HV	NT	-20000	-3.481288	20	PASS
	5785	NV	NT	-20000	-3.457217	20	PASS
		LV	NT	-20000	-3.457217	20	PASS
		HV	NT	-20000	-3.457217	20	PASS
	5825	NV	NT	-20000	-3.433476	20	PASS
		LV	NT	-20000	-3.433476	20	PASS
		HV	NT	-20000	-3.433476	20	PASS
11N20SISO	5180	NV	NT	-20000	-3.861004	20	PASS
		LV	NT	-40000	-7.722008	20	PASS
		HV	NT	0	0	20	PASS
	5200	NV	NT	20000	3.846154	20	PASS
		LV	NT	-40000	-7.692308	20	PASS
		HV	NT	-40000	-7.692308	20	PASS
	5240	NV	NT	-40000	-7.633588	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	0	0	20	PASS
	5745	NV	NT	0	0	20	PASS
		LV	NT	-40000	-6.962576	20	PASS
		HV	NT	-20000	-3.481288	20	PASS
	5785	NV	NT	0	0	20	PASS
		LV	NT	-20000	-3.457217	20	PASS
		HV	NT	-20000	-3.457217	20	PASS
	5825	NV	NT	-40000	-6.866953	20	PASS
		LV	NT	-40000	-6.866953	20	PASS
		HV	NT	-40000	-6.866953	20	PASS
11N40SISO	5190	NV	NT	-40000	-7.707129	20	PASS
		LV	NT	-40000	-7.707129	20	PASS
		HV	NT	0	0	20	PASS

Voltage							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	5230	NV	NT	-40000	-7.648184	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-80000	-15.296367	20	PASS
	5755	NV	NT	0	0	20	PASS
		LV	NT	-40000	-6.950478	20	PASS
		HV	NT	0	0	20	PASS
	5795	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	0	0	20	PASS
11AC20SISO	5180	NV	NT	0	0	20	PASS
		LV	NT	-20000	-3.861004	20	PASS
		HV	NT	0	0	20	PASS
	5200	NV	NT	-20000	-3.846154	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	0	0	20	PASS
	5240	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-20000	-3.816794	20	PASS
	5745	NV	NT	-40000	-6.962576	20	PASS
		LV	NT	-20000	-3.481288	20	PASS
		HV	NT	20000	3.481288	20	PASS
	5785	NV	NT	-40000	-6.914434	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-20000	-3.457217	20	PASS
	5825	NV	NT	-20000	-3.433476	20	PASS
		LV	NT	-20000	-3.433476	20	PASS
		HV	NT	-20000	-3.433476	20	PASS
11AC40SISO	5190	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-40000	-7.707129	20	PASS
	5230	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-40000	-7.648184	20	PASS
	5755	NV	NT	-40000	-6.950478	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-40000	-6.950478	20	PASS
	5795	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-40000	-6.902502	20	PASS
11AC80SISO	5210	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	0	0	20	PASS

Voltage							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	5775	NV	NT	0	0	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	0	0	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	5180	NV	-10	-20000	-3.861004	20	PASS
		NV	0	-20000	-3.861004	20	PASS
		NV	10	-20000	-3.861004	20	PASS
		NV	20	-40000	-7.722008	20	PASS
		NV	30	-20000	-3.861004	20	PASS
		NV	40	-20000	-3.861004	20	PASS
		NV	50	0	0	20	PASS
		NV	55	20000	3.861004	20	PASS
		NV	60	-20000	-3.861004	20	PASS
	5200	NV	-10	-20000	-3.846154	20	PASS
		NV	0	-20000	-3.846154	20	PASS
		NV	10	-20000	-3.846154	20	PASS
		NV	20	-20000	-3.846154	20	PASS
		NV	30	-20000	-3.846154	20	PASS
		NV	40	-20000	-3.846154	20	PASS
		NV	50	-20000	-3.846154	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-40000	-7.692308	20	PASS
	5240	NV	-10	-20000	-3.816794	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-40000	-7.633588	20	PASS
		NV	20	-20000	-3.816794	20	PASS
		NV	30	-20000	-3.816794	20	PASS
		NV	40	-20000	-3.816794	20	PASS
		NV	50	-20000	-3.816794	20	PASS
		NV	55	-40000	-7.633588	20	PASS
		NV	60	-20000	-3.816794	20	PASS
	5745	NV	-10	-20000	-3.481288	20	PASS
		NV	0	-20000	-3.481288	20	PASS
		NV	10	-20000	-3.481288	20	PASS
		NV	20	-20000	-3.481288	20	PASS
		NV	30	-20000	-3.481288	20	PASS
		NV	40	-20000	-3.481288	20	PASS
		NV	50	-20000	-3.481288	20	PASS
		NV	55	-20000	-3.481288	20	PASS
		NV	60	-40000	-6.962576	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	5785	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-20000	-3.457217	20	PASS
		NV	20	-40000	-6.914434	20	PASS
		NV	30	-20000	-3.457217	20	PASS
		NV	40	-20000	-3.457217	20	PASS
		NV	50	-20000	-3.457217	20	PASS
		NV	55	-40000	-6.914434	20	PASS
		NV	60	0	0	20	PASS
	5825	NV	-10	-40000	-6.866953	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	-20000	-3.433476	20	PASS
		NV	30	-40000	-6.866953	20	PASS
		NV	40	-20000	-3.433476	20	PASS
		NV	50	-20000	-3.433476	20	PASS
		NV	55	-20000	-3.433476	20	PASS
		NV	60	-20000	-3.433476	20	PASS
11N20SISO	5180	NV	-10	-20000	-3.861004	20	PASS
		NV	0	-20000	-3.861004	20	PASS
		NV	10	-20000	-3.861004	20	PASS
		NV	20	-20000	-3.861004	20	PASS
		NV	30	-40000	-7.722008	20	PASS
		NV	40	-20000	-3.861004	20	PASS
		NV	50	-20000	-3.861004	20	PASS
		NV	55	-20000	-3.861004	20	PASS
		NV	60	-20000	-3.861004	20	PASS
	5200	NV	-10	0	0	20	PASS
		NV	0	-20000	-3.846154	20	PASS
		NV	10	-20000	-3.846154	20	PASS
		NV	20	-40000	-7.692308	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	-40000	-7.692308	20	PASS
		NV	55	-20000	-3.846154	20	PASS
		NV	60	-40000	-7.692308	20	PASS
	5240	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	-20000	-3.816794	20	PASS
		NV	40	0	0	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		NV	50	-20000	-3.816794	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
	5745	NV	-10	-20000	-3.481288	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	-20000	-3.481288	20	PASS
		NV	30	0	0	20	PASS
		NV	40	-20000	-3.481288	20	PASS
		NV	50	0	0	20	PASS
		NV	55	-40000	-6.962576	20	PASS
		NV	60	-20000	-3.481288	20	PASS
	5785	NV	-10	-20000	-3.457217	20	PASS
		NV	0	-20000	-3.457217	20	PASS
		NV	10	-20000	-3.457217	20	PASS
		NV	20	-20000	-3.457217	20	PASS
		NV	30	0	0	20	PASS
		NV	40	-40000	-6.914434	20	PASS
		NV	50	20000	3.457217	20	PASS
		NV	55	-20000	-3.457217	20	PASS
		NV	60	0	0	20	PASS
	5825	NV	-10	0	0	20	PASS
		NV	0	-20000	-3.433476	20	PASS
		NV	10	-40000	-6.866953	20	PASS
		NV	20	0	0	20	PASS
		NV	30	-20000	-3.433476	20	PASS
		NV	40	-20000	-3.433476	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-20000	-3.433476	20	PASS
11N40SISO	5190	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	-80000	-15.414258	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
	5230	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-40000	-7.648184	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
	5755	NV	-10	-40000	-6.950478	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	-40000	-6.950478	20	PASS
		NV	40	-40000	-6.950478	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-40000	-6.950478	20	PASS
	5795	NV	-10	-40000	-6.902502	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-40000	-6.902502	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	-40000	-6.902502	20	PASS
		NV	50	0	0	20	PASS
		NV	55	-80000	-13.805004	20	PASS
		NV	60	-40000	-6.902502	20	PASS
11AC20SISO	5180	NV	-10	-40000	-7.722008	20	PASS
		NV	0	0	0	20	PASS
		NV	10	20000	3.861004	20	PASS
		NV	20	0	0	20	PASS
		NV	30	-20000	-3.861004	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
	5200	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	-20000	-3.846154	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-20000	-3.846154	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	5240	NV	-10	-20000	-3.816794	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-20000	-3.816794	20	PASS
		NV	20	-20000	-3.816794	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
	5745	NV	-10	-20000	-3.481288	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-20000	-3.481288	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	-20000	-3.481288	20	PASS
		NV	50	-20000	-3.481288	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-20000	-3.481288	20	PASS
	5785	NV	-10	-20000	-3.457217	20	PASS
		NV	0	-20000	-3.457217	20	PASS
		NV	10	-20000	-3.457217	20	PASS
		NV	20	-20000	-3.457217	20	PASS
		NV	30	-20000	-3.457217	20	PASS
		NV	40	-20000	-3.457217	20	PASS
		NV	50	-20000	-3.457217	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-20000	-3.457217	20	PASS
	5825	NV	-10	-20000	-3.433476	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-40000	-6.866953	20	PASS
		NV	20	-20000	-3.433476	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	-20000	-3.433476	20	PASS
		NV	55	-20000	-3.433476	20	PASS
		NV	60	0	0	20	PASS
11AC40SISO	5190	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	-40000	-7.707129	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		NV	50	-80000	-15.414258	20	PASS
		NV	55	-40000	-7.707129	20	PASS
		NV	60	-40000	-7.707129	20	PASS
	5230	NV	-10	0	0	20	PASS
		NV	0	-40000	-7.648184	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	-40000	-7.648184	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	-40000	-7.648184	20	PASS
	5755	NV	-10	-40000	-6.950478	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	-40000	-6.950478	20	PASS
		NV	60	-40000	-6.950478	20	PASS
	5795	NV	-10	-40000	-6.902502	20	PASS
		NV	0	-40000	-6.902502	20	PASS
		NV	10	-40000	-6.902502	20	PASS
		NV	20	0	0	20	PASS
		NV	30	-40000	-6.902502	20	PASS
		NV	40	0	0	20	PASS
		NV	50	-40000	-6.902502	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
11AC80SISO	5210	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS
		NV	20	0	0	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS
	5775	NV	-10	0	0	20	PASS
		NV	0	0	0	20	PASS
		NV	10	0	0	20	PASS

Temperature							
TestMode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		NV	20	-80000	-13.852814	20	PASS
		NV	30	0	0	20	PASS
		NV	40	0	0	20	PASS
		NV	50	0	0	20	PASS
		NV	55	0	0	20	PASS
		NV	60	0	0	20	PASS