

Appendix D: Frequency Stability

Test Result

Test Mode	Antenna	Channel	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11A	Ant1	5180	NV	NT	-28370	-5.476834	20	PASS
			LV	NT	-28570	-5.515444	20	PASS
			HV	NT	-28370	-5.476834	20	PASS
11AC20SI SO	Ant1	5180	NV	NT	-24380	-4.706564	20	PASS
			LV	NT	-24980	-4.822394	20	PASS
			HV	NT	-25370	-4.897683	20	PASS
		5200	NV	NT	-27770	-5.340385	20	PASS
			LV	NT	-27770	-5.340385	20	PASS
			HV	NT	-27970	-5.378846	20	PASS
		5240	NV	NT	-28170	-5.375954	20	PASS
			LV	NT	-28170	-5.375954	20	PASS
			HV	NT	-28370	-5.414122	20	PASS
11AC40SI SO	Ant1	5190	NV	NT	-27770	-5.350674	20	PASS
			LV	NT	-27770	-5.350674	20	PASS
			HV	NT	-27570	-5.312139	20	PASS
		5230	NV	NT	-27770	-5.309751	20	PASS
			LV	NT	-27970	-5.347992	20	PASS
			HV	NT	-27970	-5.347992	20	PASS
11AC80SI SO	Ant1	5210	NV	NT	-27570	-5.291747	20	PASS
			LV	NT	-27570	-5.291747	20	PASS
			HV	NT	-27770	-5.330134	20	PASS
11AC20SI SO	Ant1	5745	NV	NT	-24580	-4.278503	20	PASS
			LV	NT	-26770	-4.659704	20	PASS
			HV	NT	-27770	-4.833768	20	PASS
		5785	NV	NT	-31970	-5.526361	20	PASS
			LV	NT	-31970	-5.526361	20	PASS
			HV	NT	-31970	-5.526361	20	PASS
		5825	NV	NT	-32170	-5.522747	20	PASS
			LV	NT	-31970	-5.488412	20	PASS
			HV	NT	-32370	-5.557082	20	PASS
11AC40SI SO	Ant1	5755	NV	NT	-31170	-5.416160	20	PASS
			LV	NT	-31170	-5.416160	20	PASS
			HV	NT	-31370	-5.450912	20	PASS
		5795	NV	NT	-31770	-5.482312	20	PASS
			LV	NT	-31770	-5.482312	20	PASS
			HV	NT	-31570	-5.447800	20	PASS
11AC80SI SO	Ant1	5775	NV	NT	-31370	-5.432035	20	PASS
			LV	NT	-31170	-5.397403	20	PASS
			HV	NT	-31370	-5.432035	20	PASS

Temperature								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-28170	-5.438224	20	PASS
			NV	-20	-28370	-5.476834	20	PASS
			NV	-10	-28370	-5.476834	20	PASS
			NV	0	-28570	-5.515444	20	PASS
			NV	10	-28170	-5.438224	20	PASS
			NV	20	-28170	-5.438224	20	PASS
			NV	30	-28370	-5.476834	20	PASS
			NV	40	-28370	-5.476834	20	PASS
			NV	50	-28570	-5.515444	20	PASS
11AC20SI SO	Ant1	5180	NV	-30	-26170	-5.052124	20	PASS
			NV	-20	-26370	-5.090734	20	PASS
			NV	-10	-26770	-5.167954	20	PASS
			NV	0	-26770	-5.167954	20	PASS
			NV	10	-26970	-5.206564	20	PASS
			NV	20	-27370	-5.283784	20	PASS
			NV	30	-27170	-5.245174	20	PASS
			NV	40	-27370	-5.283784	20	PASS
			NV	50	-27570	-5.322394	20	PASS
		5200	NV	-30	-27970	-5.378846	20	PASS
			NV	-20	-27770	-5.340385	20	PASS
			NV	-10	-27770	-5.340385	20	PASS
			NV	0	-27970	-5.378846	20	PASS
			NV	10	-27970	-5.378846	20	PASS
			NV	20	-28170	-5.417308	20	PASS
			NV	30	-27970	-5.378846	20	PASS
			NV	40	-27970	-5.378846	20	PASS
			NV	50	-28170	-5.417308	20	PASS
		5240	NV	-30	-28370	-5.414122	20	PASS
			NV	-20	-28170	-5.375954	20	PASS
			NV	-10	-28170	-5.375954	20	PASS
			NV	0	-28370	-5.414122	20	PASS
			NV	10	-28370	-5.414122	20	PASS
			NV	20	-28570	-5.45229	20	PASS
			NV	30	-28170	-5.375954	20	PASS
			NV	40	-28170	-5.375954	20	PASS
			NV	50	-28370	-5.414122	20	PASS
11AC40SI SO	Ant1	5190	NV	-30	-27770	-5.350674	20	PASS
			NV	-20	-28170	-5.427746	20	PASS
			NV	-10	-27770	-5.350674	20	PASS
			NV	0	-27770	-5.350674	20	PASS
			NV	10	-27770	-5.350674	20	PASS
			NV	20	-27970	-5.389210	20	PASS

			NV	30	-27770	-5.350674	20	PASS
			NV	40	-27970	-5.389210	20	PASS
			NV	50	-27770	-5.350674	20	PASS
		5230	NV	-30	-27770	-5.309751	20	PASS
			NV	-20	-27970	-5.347992	20	PASS
			NV	-10	-27770	-5.309751	20	PASS
			NV	0	-27770	-5.309751	20	PASS
			NV	10	-27970	-5.347992	20	PASS
			NV	20	-27970	-5.347992	20	PASS
			NV	30	-27970	-5.347992	20	PASS
			NV	40	-27770	-5.309751	20	PASS
			NV	50	-27970	-5.347992	20	PASS
11AC80SI SO	Ant1	5210	NV	-30	-27570	-5.291747	20	PASS
			NV	-20	-27570	-5.291747	20	PASS
			NV	-10	-27370	-5.253359	20	PASS
			NV	0	-27570	-5.291747	20	PASS
			NV	10	-27570	-5.291747	20	PASS
			NV	20	-27570	-5.291747	20	PASS
			NV	30	-27570	-5.291747	20	PASS
			NV	40	-27570	-5.291747	20	PASS
			NV	50	-27370	-5.253359	20	PASS
11AC20SI SO	Ant1	5745	NV	-30	-28970	-5.042646	20	PASS
			NV	-20	-29770	-5.181897	20	PASS
			NV	-10	-30170	-5.251523	20	PASS
			NV	0	-30570	-5.321149	20	PASS
			NV	10	-30970	-5.390775	20	PASS
			NV	20	-30970	-5.390775	20	PASS
			NV	30	-31370	-5.46040	20	PASS
			NV	40	-31370	-5.46040	20	PASS
			NV	50	-31570	-5.495213	20	PASS
		5785	NV	-30	-31770	-5.491789	20	PASS
			NV	-20	-31970	-5.526361	20	PASS
			NV	-10	-31770	-5.491789	20	PASS
			NV	0	-31770	-5.491789	20	PASS
			NV	10	-31970	-5.526361	20	PASS
			NV	20	-31970	-5.526361	20	PASS
			NV	30	-31770	-5.491789	20	PASS
			NV	40	-31770	-5.491789	20	PASS
			NV	50	-31770	-5.491789	20	PASS
		5825	NV	-30	-32170	-5.522747	20	PASS
			NV	-20	-32170	-5.522747	20	PASS
			NV	-10	-32370	-5.557082	20	PASS
			NV	0	-32170	-5.522747	20	PASS
			NV	10	-32370	-5.557082	20	PASS
			NV	20	-32170	-5.522747	20	PASS
			NV	30	-32370	-5.557082	20	PASS

			NV	40	-31970	-5.488412	20	PASS
			NV	50	-32370	-5.557082	20	PASS
11AC40SI SO	Ant1	5755	NV	-30	-31370	-5.450912	20	PASS
			NV	-20	-31570	-5.485665	20	PASS
			NV	-10	-31370	-5.450912	20	PASS
			NV	0	-31570	-5.485665	20	PASS
			NV	10	-31570	-5.485665	20	PASS
			NV	20	-31370	-5.450912	20	PASS
			NV	30	-31770	-5.520417	20	PASS
			NV	40	-31770	-5.520417	20	PASS
			NV	50	-31570	-5.485665	20	PASS
		5795	NV	-30	-31770	-5.482312	20	PASS
			NV	-20	-31970	-5.516825	20	PASS
			NV	-10	-31770	-5.482312	20	PASS
			NV	0	-31970	-5.516825	20	PASS
			NV	10	-31770	-5.482312	20	PASS
			NV	20	-32170	-5.551337	20	PASS
			NV	30	-32170	-5.551337	20	PASS
			NV	40	-32170	-5.551337	20	PASS
			NV	50	-31770	-5.482312	20	PASS
11AC80SI SO	Ant1	5775	NV	-30	-31570	-5.466667	20	PASS
			NV	-20	-31570	-5.466667	20	PASS
			NV	-10	-31570	-5.466667	20	PASS
			NV	0	-31770	-5.501299	20	PASS
			NV	10	-31770	-5.501299	20	PASS
			NV	20	-31770	-5.501299	20	PASS
			NV	30	-31770	-5.501299	20	PASS
			NV	40	-31770	-5.501299	20	PASS
			NV	50	-31770	-5.501299	20	PASS

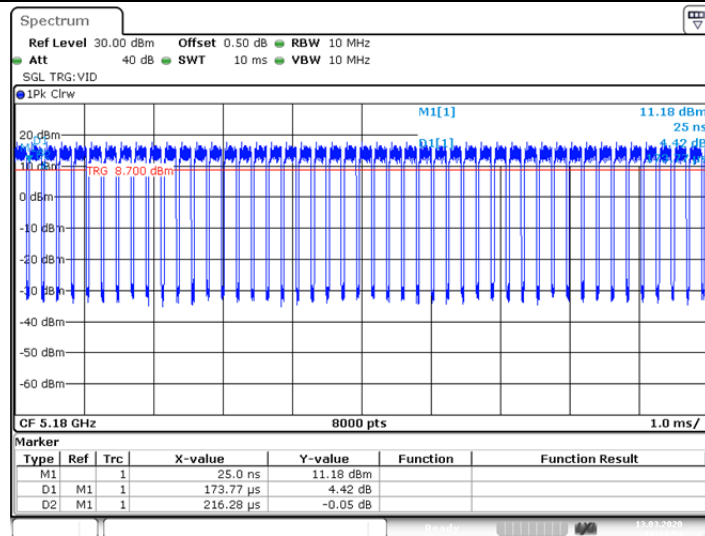
Appendix E: Duty Cycle

Test Result

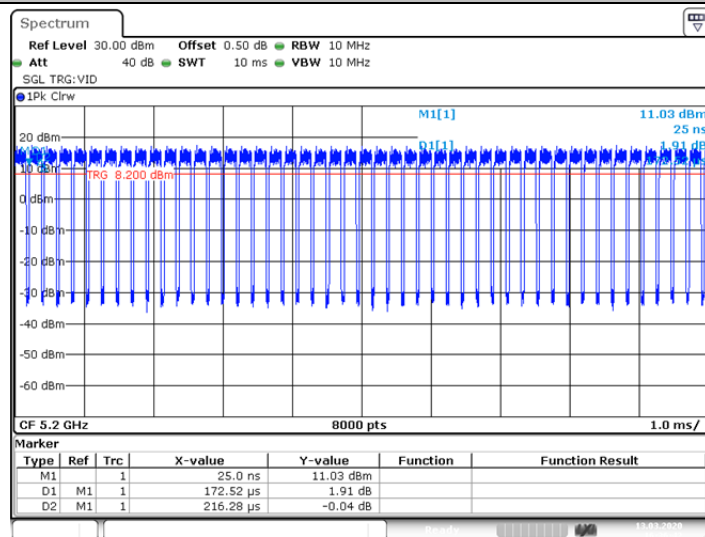
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.174	0.216	80.35
		5200	0.173	0.216	79.77
		5240	0.174	0.216	80.35
11N20SISO	Ant1	5180	0.160	0.204	78.53
		5200	0.160	0.204	78.53
		5240	0.160	0.204	78.53
11N40SISO	Ant1	5190	0.100	0.141	70.44
		5230	0.100	0.142	70.32
11AC20SISO	Ant1	5180	0.165	0.208	79.52
		5200	0.165	0.209	79.04
		5240	0.165	0.209	79.04
11AC40SISO	Ant1	5190	0.090	0.133	67.92
		5230	0.091	0.133	68.87
11AC80SISO	Ant1	5210	0.062	0.104	59.28
11A	Ant1	5745	0.173	0.216	79.77
		5785	0.173	0.216	79.77
		5825	0.173	0.216	79.77
11N20SISO	Ant1	5745	0.161	0.204	79.14
		5785	0.161	0.204	79.14
		5825	0.161	0.204	79.14
11N40SISO	Ant1	5755	0.099	0.141	69.91
		5795	0.098	0.140	69.64
11AC20SISO	Ant1	5745	0.164	0.208	78.92
		5785	0.165	0.209	79.04
		5825	0.165	0.208	79.52
11AC40SISO	Ant1	5755	0.090	0.133	67.92
		5795	0.091	0.133	68.87
11AC80SISO	Ant1	5775	0.063	0.105	59.52

Test Graphs

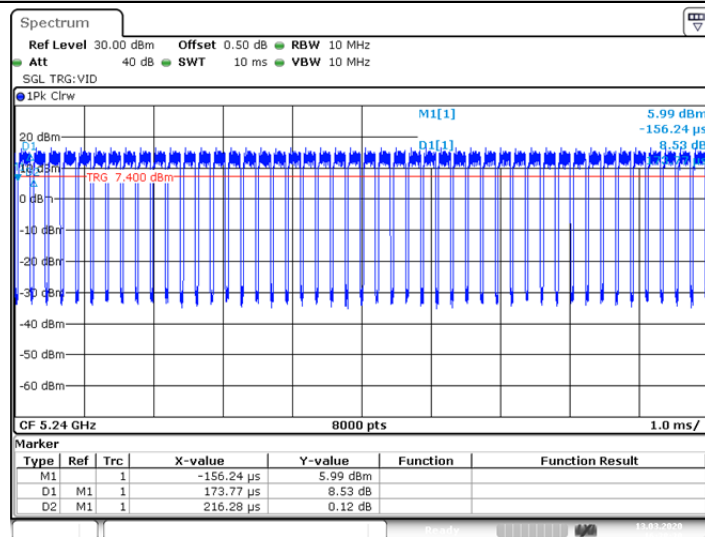
11A_Ant1_5180



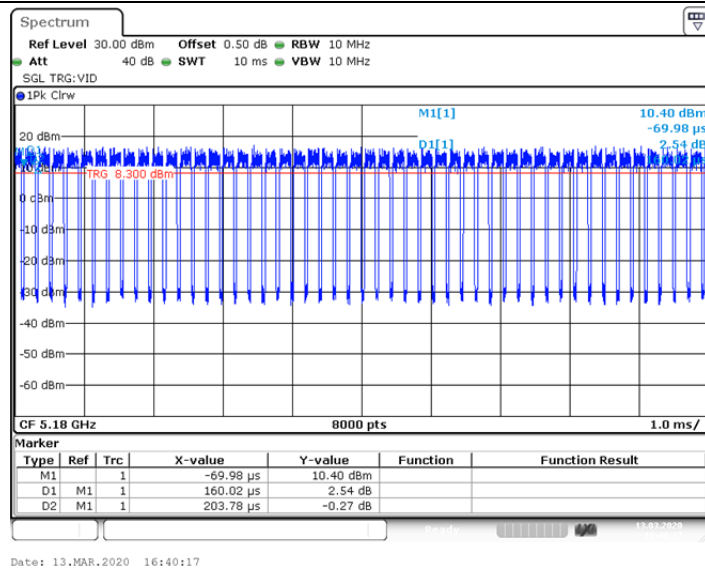
11A_Ant1_5200



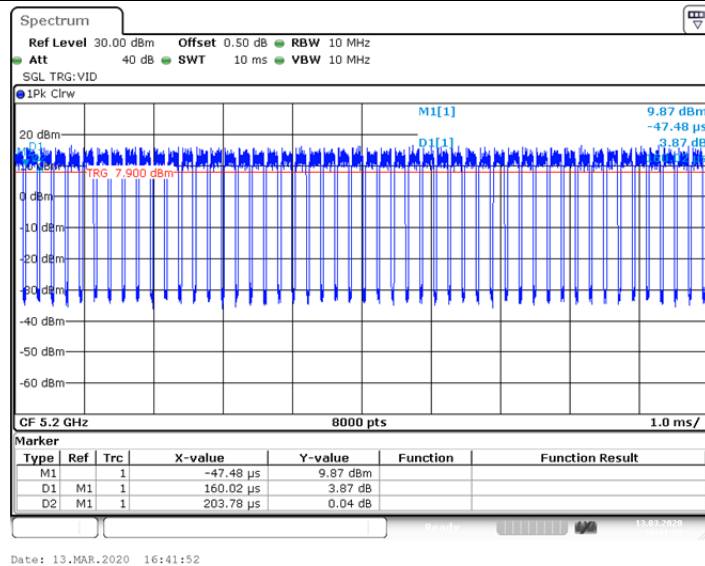
11A_Ant1_5240



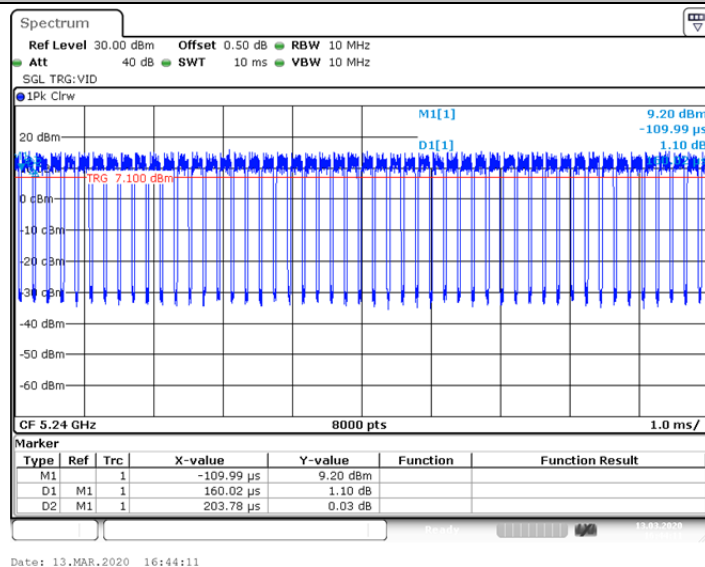
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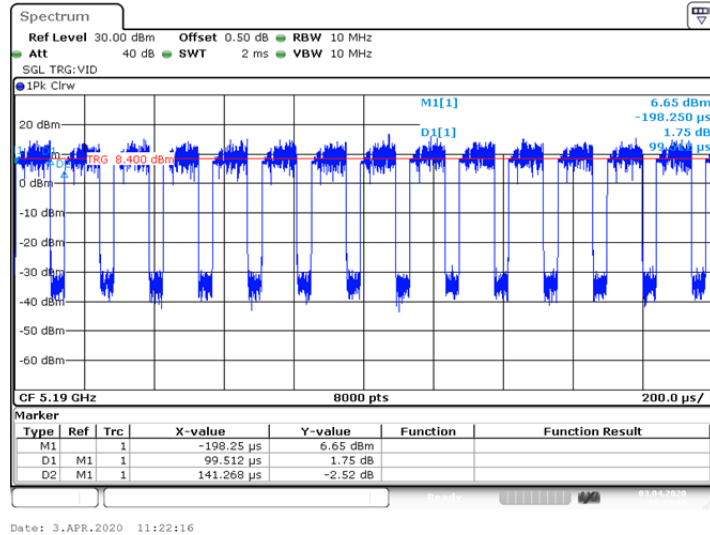
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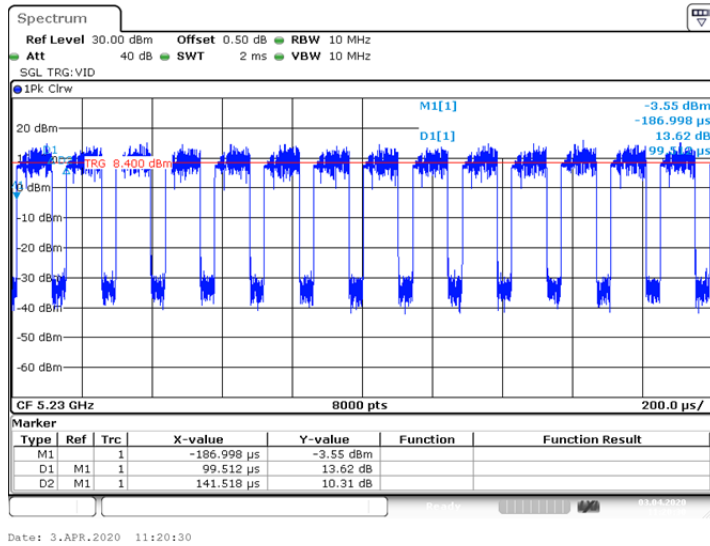
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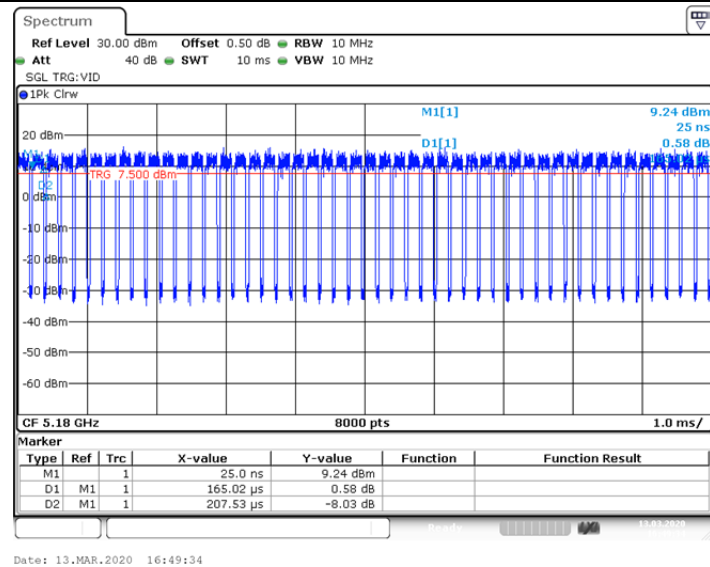
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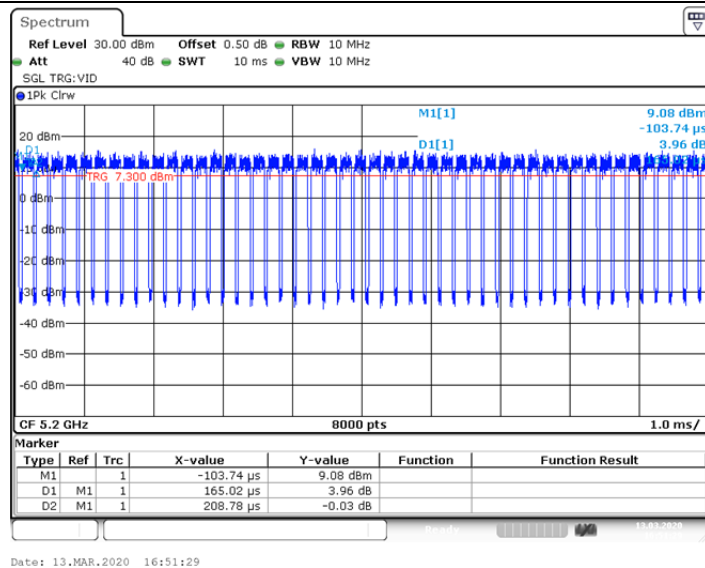
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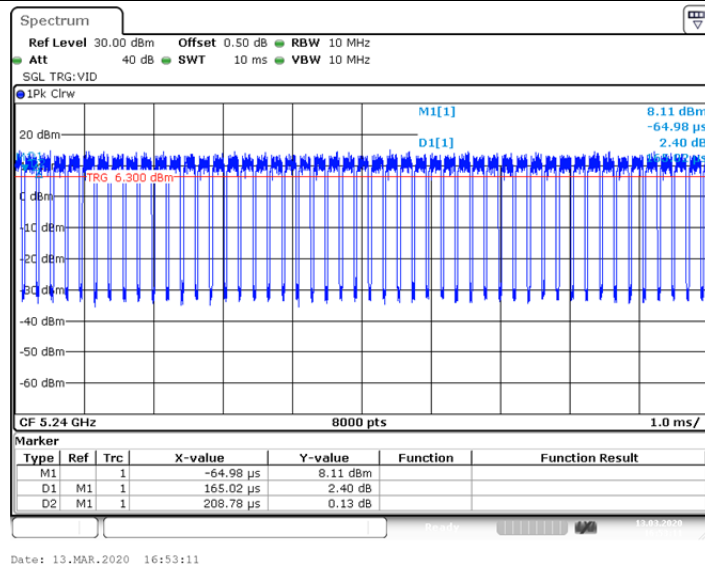
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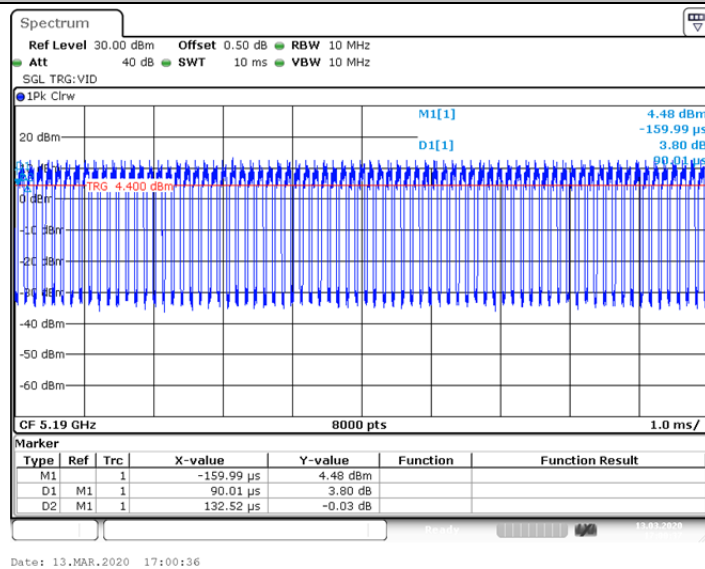
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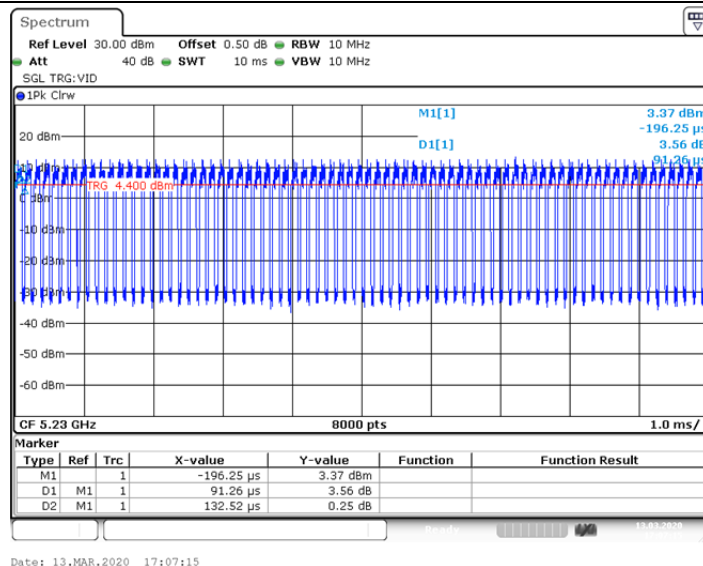
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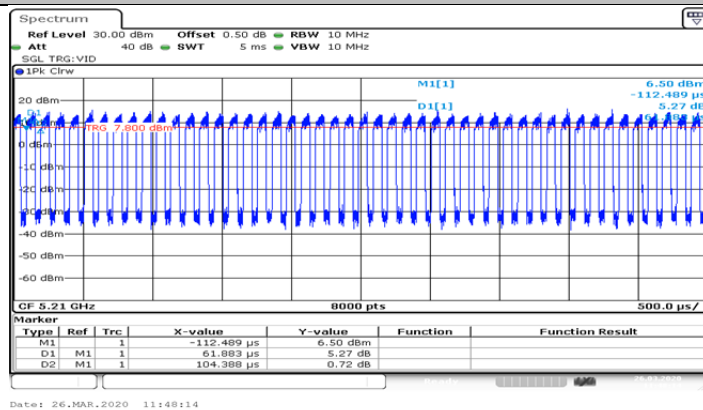
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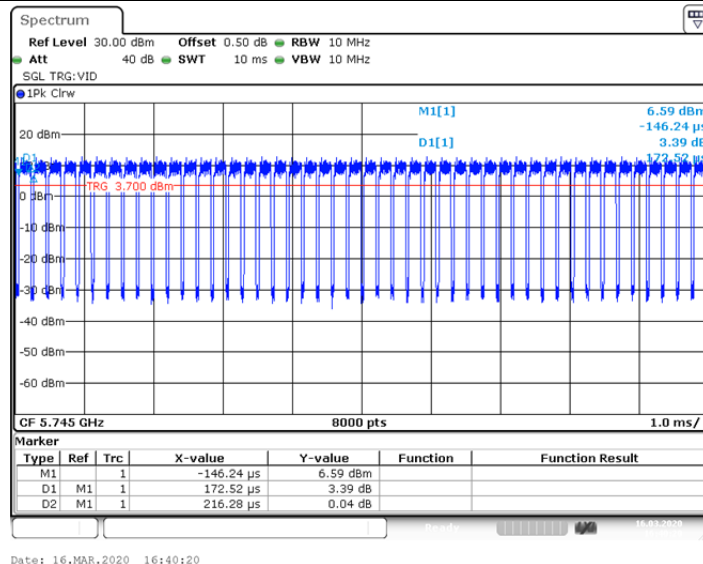
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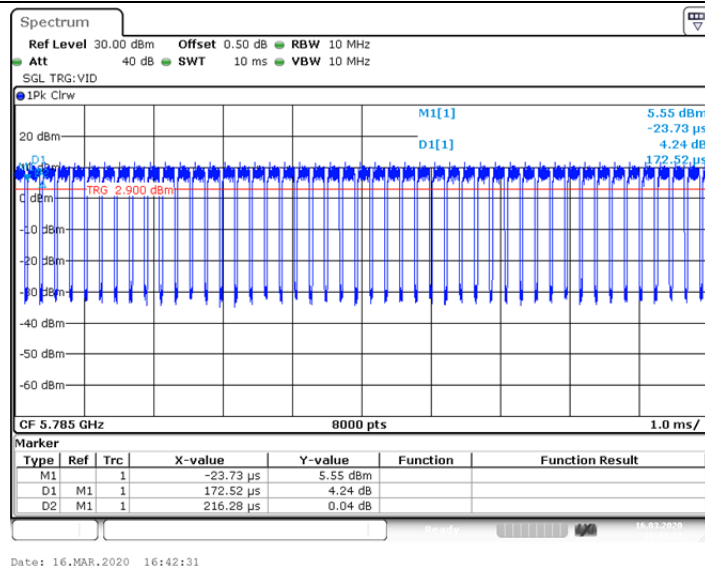
11AC80SISO_Ant1_5210



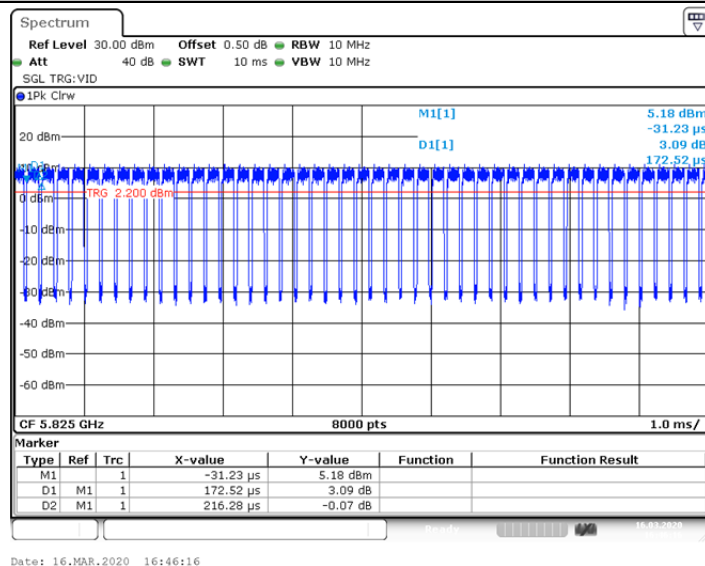
11A_Ant1_5745



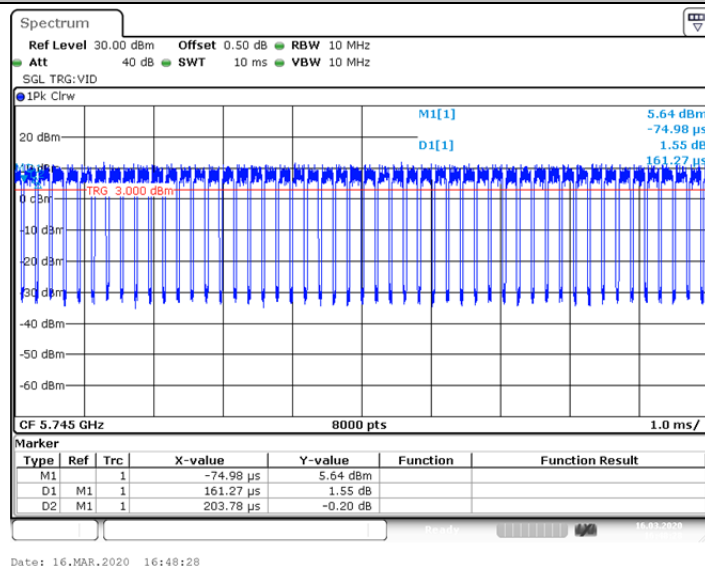
11A_Ant1_5785



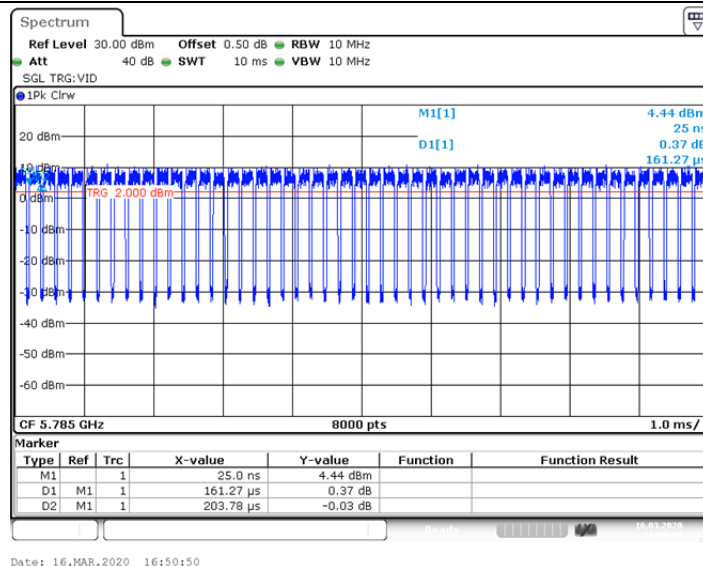
11A_Ant1_5825



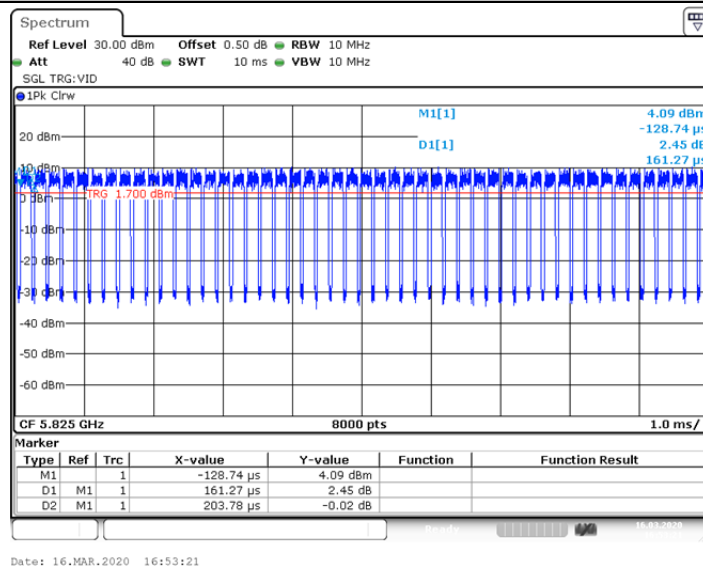
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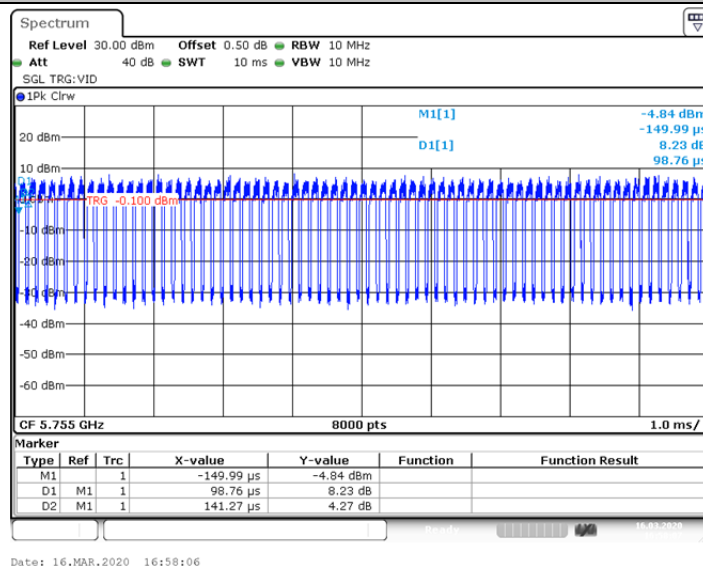
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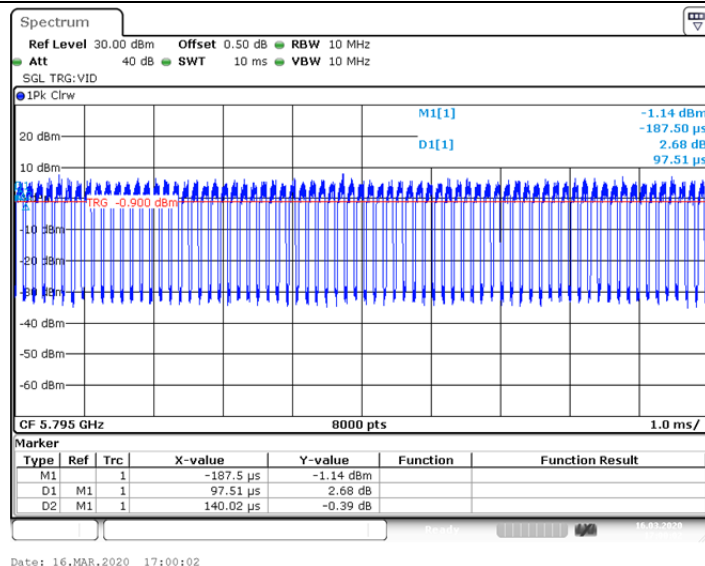
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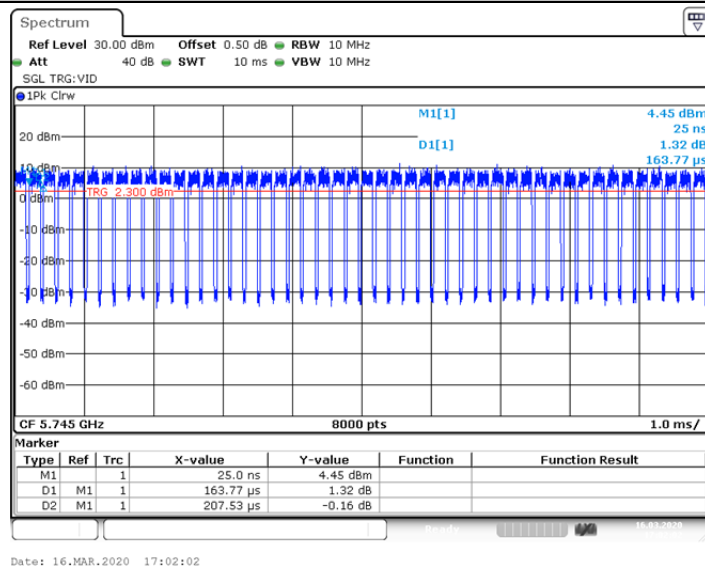
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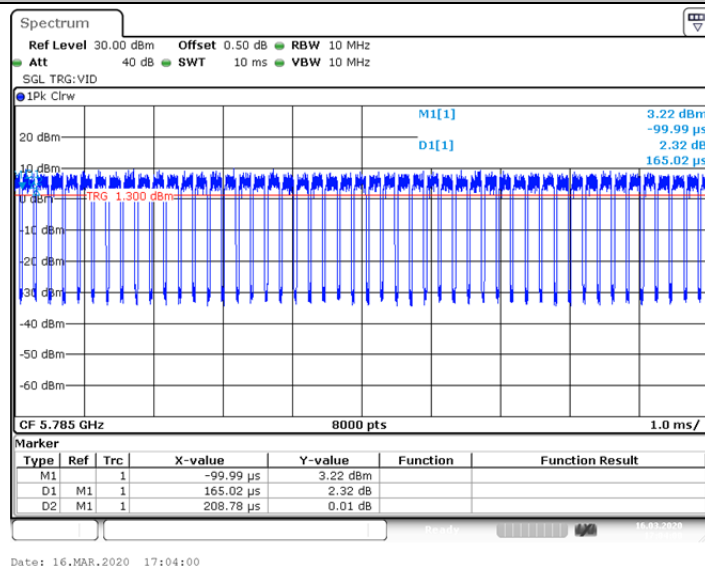
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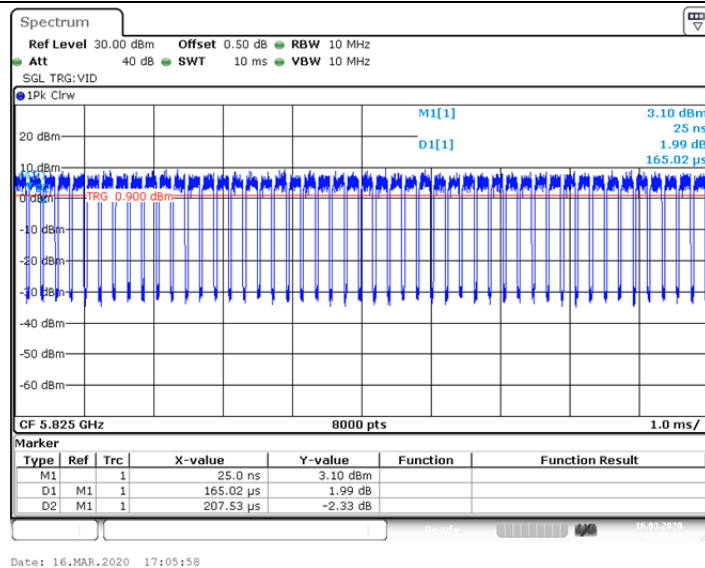
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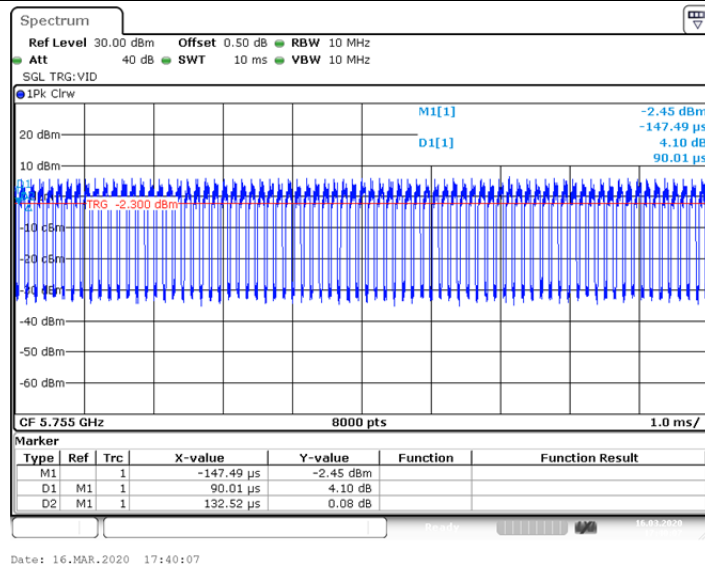
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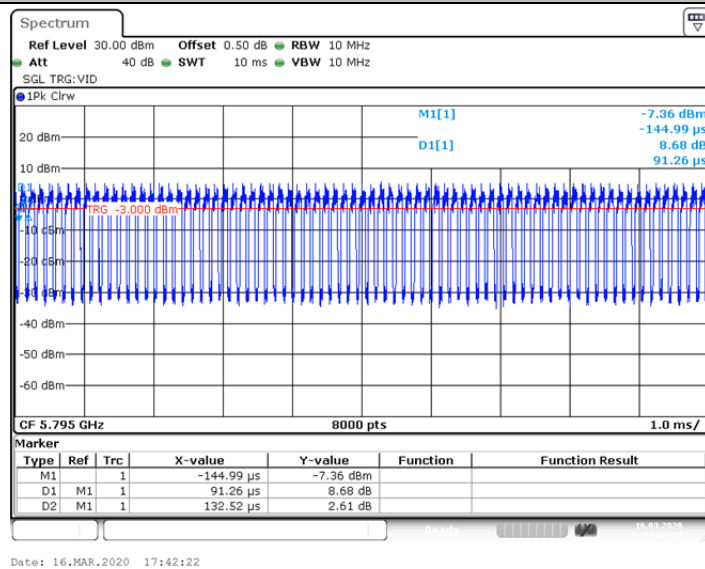
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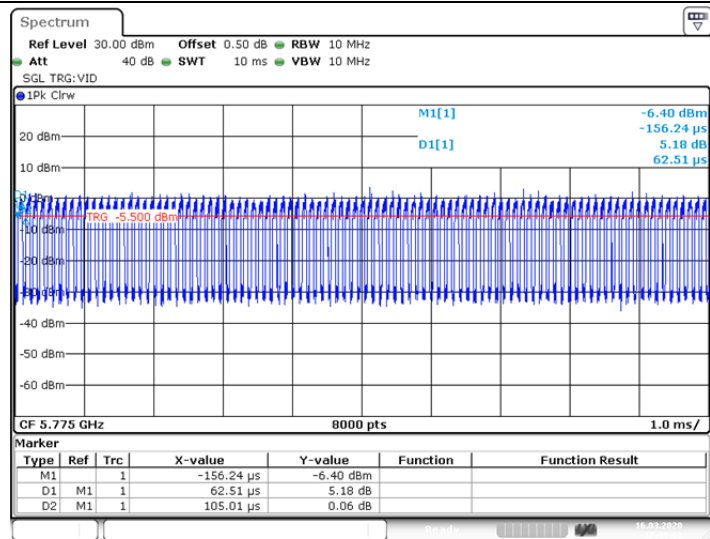
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



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