

1. Frequency Stability

1.1 Band2

1.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.40	-2.382	-0.0013	-2.5 to 2.5	Pass
			3.80	-0.021	0.0000	-2.5 to 2.5	Pass
			4.35	-0.257	-0.0001	-2.5 to 2.5	Pass
		-30	3.80	-2.789	-0.0015	-2.5 to 2.5	Pass
		-20	3.80	-0.629	-0.0003	-2.5 to 2.5	Pass
		-10	3.80	-3.119	-0.0017	-2.5 to 2.5	Pass
		0	3.80	1.252	0.0007	-2.5 to 2.5	Pass
		10	3.80	-2.253	-0.0012	-2.5 to 2.5	Pass
		30	3.80	-0.372	-0.0002	-2.5 to 2.5	Pass
		40	3.80	-1.538	-0.0008	-2.5 to 2.5	Pass
		50	3.80	-1.945	-0.0010	-2.5 to 2.5	Pass
	1880	20	3.40	1.559	0.0008	-2.5 to 2.5	Pass
			3.80	0.443	0.0002	-2.5 to 2.5	Pass
			4.35	1.452	0.0008	-2.5 to 2.5	Pass
		-30	3.80	-1.316	-0.0007	-2.5 to 2.5	Pass
		-20	3.80	-1.216	-0.0006	-2.5 to 2.5	Pass
		-10	3.80	0.494	0.0003	-2.5 to 2.5	Pass
		0	3.80	0.715	0.0004	-2.5 to 2.5	Pass
		10	3.80	0.007	0.0000	-2.5 to 2.5	Pass
		30	3.80	2.017	0.0011	-2.5 to 2.5	Pass
		40	3.80	0.350	0.0002	-2.5 to 2.5	Pass
		50	3.80	-0.072	0.0000	-2.5 to 2.5	Pass
	1907.6	20	3.40	3.397	0.0018	-2.5 to 2.5	Pass
			3.80	-2.196	-0.0012	-2.5 to 2.5	Pass
			4.35	-0.479	-0.0003	-2.5 to 2.5	Pass
		-30	3.80	2.925	0.0015	-2.5 to 2.5	Pass
		-20	3.80	2.997	0.0016	-2.5 to 2.5	Pass
		-10	3.80	-1.960	-0.0010	-2.5 to 2.5	Pass
		0	3.80	1.595	0.0008	-2.5 to 2.5	Pass
		10	3.80	-1.180	-0.0006	-2.5 to 2.5	Pass
		30	3.80	5.636	0.0030	-2.5 to 2.5	Pass
		40	3.80	-1.881	-0.0010	-2.5 to 2.5	Pass
		50	3.80	5.493	0.0029	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.40	15.736	0.0085	-2.5 to 2.5	Pass
			3.80	4.821	0.0026	-2.5 to 2.5	Pass
			4.35	4.013	0.0022	-2.5 to 2.5	Pass
		-30	3.80	3.140	0.0017	-2.5 to 2.5	Pass
		-20	3.80	4.084	0.0022	-2.5 to 2.5	Pass
		-10	3.80	9.542	0.0052	-2.5 to 2.5	Pass
		0	3.80	13.068	0.0071	-2.5 to 2.5	Pass
		10	3.80	13.554	0.0073	-2.5 to 2.5	Pass
		30	3.80	14.756	0.0080	-2.5 to 2.5	Pass
		40	3.80	12.081	0.0065	-2.5 to 2.5	Pass
		50	3.80	12.131	0.0065	-2.5 to 2.5	Pass
	1880	20	3.40	2.904	0.0015	-2.5 to 2.5	Pass
			3.80	-1.087	-0.0006	-2.5 to 2.5	Pass

			4.35	-0.272	-0.0001	-2.5 to 2.5	Pass
		-30	3.80	-1.023	-0.0005	-2.5 to 2.5	Pass
		-20	3.80	1.638	0.0009	-2.5 to 2.5	Pass
		-10	3.80	0.615	0.0003	-2.5 to 2.5	Pass
		0	3.80	6.659	0.0035	-2.5 to 2.5	Pass
		10	3.80	13.289	0.0071	-2.5 to 2.5	Pass
		30	3.80	14.234	0.0076	-2.5 to 2.5	Pass
		40	3.80	13.461	0.0072	-2.5 to 2.5	Pass
		50	3.80	12.910	0.0069	-2.5 to 2.5	Pass
	1907.6	20	3.40	10.622	0.0056	-2.5 to 2.5	Pass
			3.80	11.802	0.0062	-2.5 to 2.5	Pass
			4.35	14.541	0.0076	-2.5 to 2.5	Pass
		-30	3.80	11.323	0.0059	-2.5 to 2.5	Pass
		-20	3.80	9.892	0.0052	-2.5 to 2.5	Pass
		-10	3.80	4.606	0.0024	-2.5 to 2.5	Pass
		0	3.80	2.568	0.0013	-2.5 to 2.5	Pass
		10	3.80	1.974	0.0010	-2.5 to 2.5	Pass
		30	3.80	-0.207	-0.0001	-2.5 to 2.5	Pass
		40	3.80	2.789	0.0015	-2.5 to 2.5	Pass
		50	3.80	4.964	0.0026	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.40	4.098	0.0022	-2.5 to 2.5	Pass
			3.80	-2.418	-0.0013	-2.5 to 2.5	Pass
			4.35	4.771	0.0026	-2.5 to 2.5	Pass
		-30	3.80	-0.186	-0.0001	-2.5 to 2.5	Pass
		-20	3.80	8.233	0.0044	-2.5 to 2.5	Pass
		-10	3.80	-1.602	-0.0009	-2.5 to 2.5	Pass
		0	3.80	-3.119	-0.0017	-2.5 to 2.5	Pass
		10	3.80	-3.905	-0.0021	-2.5 to 2.5	Pass
		30	3.80	5.207	0.0028	-2.5 to 2.5	Pass
		40	3.80	2.096	0.0011	-2.5 to 2.5	Pass
		50	3.80	9.162	0.0049	-2.5 to 2.5	Pass
	1880	20	3.40	-2.117	-0.0011	-2.5 to 2.5	Pass
			3.80	-8.333	-0.0044	-2.5 to 2.5	Pass
			4.35	5.994	0.0032	-2.5 to 2.5	Pass
		-30	3.80	0.815	0.0004	-2.5 to 2.5	Pass
		-20	3.80	2.575	0.0014	-2.5 to 2.5	Pass
		-10	3.80	0.772	0.0004	-2.5 to 2.5	Pass
		0	3.80	-5.593	-0.0030	-2.5 to 2.5	Pass
		10	3.80	-1.559	-0.0008	-2.5 to 2.5	Pass
		30	3.80	-1.223	-0.0007	-2.5 to 2.5	Pass
		40	3.80	-14.012	-0.0075	-2.5 to 2.5	Pass
		50	3.80	-12.860	-0.0068	-2.5 to 2.5	Pass
	1907.6	20	3.40	-2.224	-0.0012	-2.5 to 2.5	Pass
			3.80	-3.734	-0.0020	-2.5 to 2.5	Pass
			4.35	1.116	0.0006	-2.5 to 2.5	Pass
		-30	3.80	-4.299	-0.0023	-2.5 to 2.5	Pass
		-20	3.80	5.815	0.0030	-2.5 to 2.5	Pass
		-10	3.80	-2.074	-0.0011	-2.5 to 2.5	Pass
		0	3.80	-4.842	-0.0025	-2.5 to 2.5	Pass
		10	3.80	-0.072	0.0000	-2.5 to 2.5	Pass
		30	3.80	-0.036	0.0000	-2.5 to 2.5	Pass
		40	3.80	-10.028	-0.0053	-2.5 to 2.5	Pass
		50	3.80	-9.069	-0.0048	-2.5 to 2.5	Pass

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.40	-1.788	-0.0010	-2.5 to 2.5	Pass
			3.80	2.646	0.0015	-2.5 to 2.5	Pass
			4.35	1.380	0.0008	-2.5 to 2.5	Pass
		-30	3.80	4.470	0.0026	-2.5 to 2.5	Pass
		-20	3.80	0.229	0.0001	-2.5 to 2.5	Pass
		-10	3.80	0.830	0.0005	-2.5 to 2.5	Pass
		0	3.80	0.837	0.0005	-2.5 to 2.5	Pass
		10	3.80	4.113	0.0024	-2.5 to 2.5	Pass
		30	3.80	1.302	0.0008	-2.5 to 2.5	Pass
		40	3.80	-0.079	0.0000	-2.5 to 2.5	Pass
		50	3.80	3.784	0.0022	-2.5 to 2.5	Pass
	1732.6	20	3.40	2.296	0.0013	-2.5 to 2.5	Pass
			3.80	3.684	0.0021	-2.5 to 2.5	Pass
			4.35	3.912	0.0023	-2.5 to 2.5	Pass
		-30	3.80	3.190	0.0018	-2.5 to 2.5	Pass
		-20	3.80	9.305	0.0054	-2.5 to 2.5	Pass
		-10	3.80	7.224	0.0042	-2.5 to 2.5	Pass
		0	3.80	-7.932	-0.0046	-2.5 to 2.5	Pass
		10	3.80	-0.222	-0.0001	-2.5 to 2.5	Pass
		30	3.80	-2.682	-0.0015	-2.5 to 2.5	Pass
		40	3.80	-7.067	-0.0041	-2.5 to 2.5	Pass
		50	3.80	-5.801	-0.0033	-2.5 to 2.5	Pass
	1752.6	20	3.40	7.417	0.0042	-2.5 to 2.5	Pass
			3.80	6.602	0.0038	-2.5 to 2.5	Pass
			4.35	3.469	0.0020	-2.5 to 2.5	Pass
		-30	3.80	-6.709	-0.0038	-2.5 to 2.5	Pass
		-20	3.80	-1.173	-0.0007	-2.5 to 2.5	Pass
		-10	3.80	-2.453	-0.0014	-2.5 to 2.5	Pass
		0	3.80	-5.915	-0.0034	-2.5 to 2.5	Pass
		10	3.80	0.672	0.0004	-2.5 to 2.5	Pass
		30	3.80	-0.715	-0.0004	-2.5 to 2.5	Pass
		40	3.80	0.951	0.0005	-2.5 to 2.5	Pass
		50	3.80	2.639	0.0015	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.40	7.753	0.0045	-2.5 to 2.5	Pass
			3.80	6.588	0.0038	-2.5 to 2.5	Pass
			4.35	11.144	0.0065	-2.5 to 2.5	Pass
		-30	3.80	7.811	0.0046	-2.5 to 2.5	Pass
		-20	3.80	8.154	0.0048	-2.5 to 2.5	Pass
		-10	3.80	9.191	0.0054	-2.5 to 2.5	Pass
		0	3.80	5.772	0.0034	-2.5 to 2.5	Pass
		10	3.80	12.102	0.0071	-2.5 to 2.5	Pass
		30	3.80	8.125	0.0047	-2.5 to 2.5	Pass
		40	3.80	10.450	0.0061	-2.5 to 2.5	Pass
		50	3.80	10.529	0.0061	-2.5 to 2.5	Pass
	1732.6	20	3.40	6.616	0.0038	-2.5 to 2.5	Pass
			3.80	12.746	0.0074	-2.5 to 2.5	Pass
			4.35	10.750	0.0062	-2.5 to 2.5	Pass
		-30	3.80	5.536	0.0032	-2.5 to 2.5	Pass
		-20	3.80	4.914	0.0028	-2.5 to 2.5	Pass

		-10	3.80	14.412	0.0083	-2.5 to 2.5	Pass
		0	3.80	15.414	0.0089	-2.5 to 2.5	Pass
		10	3.80	8.876	0.0051	-2.5 to 2.5	Pass
		30	3.80	9.484	0.0055	-2.5 to 2.5	Pass
		40	3.80	6.673	0.0039	-2.5 to 2.5	Pass
		50	3.80	6.523	0.0038	-2.5 to 2.5	Pass
	1752.6	20	3.40	5.550	0.0032	-2.5 to 2.5	Pass
			3.80	10.536	0.0060	-2.5 to 2.5	Pass
			4.35	13.239	0.0076	-2.5 to 2.5	Pass
		-30	3.80	8.891	0.0051	-2.5 to 2.5	Pass
		-20	3.80	6.452	0.0037	-2.5 to 2.5	Pass
		-10	3.80	9.120	0.0052	-2.5 to 2.5	Pass
		0	3.80	12.653	0.0072	-2.5 to 2.5	Pass
		10	3.80	11.644	0.0066	-2.5 to 2.5	Pass
		30	3.80	8.512	0.0049	-2.5 to 2.5	Pass
		40	3.80	1.881	0.0011	-2.5 to 2.5	Pass
		50	3.80	14.269	0.0081	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.40	-11.516	-0.0067	-2.5 to 2.5	Pass
			3.80	-12.288	-0.0072	-2.5 to 2.5	Pass
			4.35	-5.708	-0.0033	-2.5 to 2.5	Pass
		-30	3.80	-2.625	-0.0015	-2.5 to 2.5	Pass
		-20	3.80	-2.646	-0.0015	-2.5 to 2.5	Pass
		-10	3.80	-4.728	-0.0028	-2.5 to 2.5	Pass
		0	3.80	-4.871	-0.0028	-2.5 to 2.5	Pass
		10	3.80	-9.663	-0.0056	-2.5 to 2.5	Pass
		30	3.80	-14.727	-0.0086	-2.5 to 2.5	Pass
		40	3.80	-13.089	-0.0076	-2.5 to 2.5	Pass
	1732.6	20	3.40	-10.321	-0.0060	-2.5 to 2.5	Pass
			3.80	-14.119	-0.0081	-2.5 to 2.5	Pass
			4.35	-10.793	-0.0062	-2.5 to 2.5	Pass
		-30	3.80	-10.557	-0.0061	-2.5 to 2.5	Pass
		-20	3.80	-14.784	-0.0085	-2.5 to 2.5	Pass
		-10	3.80	-12.302	-0.0071	-2.5 to 2.5	Pass
		0	3.80	-0.114	-0.0001	-2.5 to 2.5	Pass
		10	3.80	1.595	0.0009	-2.5 to 2.5	Pass
		30	3.80	-11.137	-0.0064	-2.5 to 2.5	Pass
		40	3.80	-10.142	-0.0059	-2.5 to 2.5	Pass
	1752.6	20	3.80	-7.768	-0.0045	-2.5 to 2.5	Pass
			3.80	-2.718	-0.0016	-2.5 to 2.5	Pass
			3.40	-9.069	-0.0052	-2.5 to 2.5	Pass
		20	3.80	-9.527	-0.0054	-2.5 to 2.5	Pass
			4.35	-10.514	-0.0060	-2.5 to 2.5	Pass
			3.80	-15.593	-0.0089	-2.5 to 2.5	Pass
		-30	3.80	-12.188	-0.0070	-2.5 to 2.5	Pass
		-20	3.80	-0.973	-0.0006	-2.5 to 2.5	Pass
		-10	3.80	-7.946	-0.0045	-2.5 to 2.5	Pass
		0	3.80	-1.309	-0.0007	-2.5 to 2.5	Pass
		10	3.80	-2.511	-0.0014	-2.5 to 2.5	Pass
		30	3.80	-11.122	-0.0063	-2.5 to 2.5	Pass
		40	3.80	-3.741	-0.0021	-2.5 to 2.5	Pass
		50	3.80				

3. Frequency Stability

3.1 Band5

3.1.1 Test Result

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.40	-0.701	-0.0008	-2.5 to 2.5	Pass
			3.80	0.422	0.0005	-2.5 to 2.5	Pass
			4.35	1.166	0.0014	-2.5 to 2.5	Pass
		-30	3.80	1.738	0.0021	-2.5 to 2.5	Pass
		-20	3.80	-0.951	-0.0012	-2.5 to 2.5	Pass
		-10	3.80	-1.516	-0.0018	-2.5 to 2.5	Pass
		0	3.80	0.393	0.0005	-2.5 to 2.5	Pass
		10	3.80	0.007	0.0000	-2.5 to 2.5	Pass
		30	3.80	1.459	0.0018	-2.5 to 2.5	Pass
		40	3.80	1.960	0.0024	-2.5 to 2.5	Pass
		50	3.80	2.775	0.0034	-2.5 to 2.5	Pass
	836.6	20	3.40	-0.050	-0.0001	-2.5 to 2.5	Pass
			3.80	0.887	0.0011	-2.5 to 2.5	Pass
			4.35	1.853	0.0022	-2.5 to 2.5	Pass
		-30	3.80	-2.174	-0.0026	-2.5 to 2.5	Pass
		-20	3.80	-0.336	-0.0004	-2.5 to 2.5	Pass
		-10	3.80	-0.629	-0.0008	-2.5 to 2.5	Pass
		0	3.80	-1.667	-0.0020	-2.5 to 2.5	Pass
		10	3.80	-0.601	-0.0007	-2.5 to 2.5	Pass
		30	3.80	0.422	0.0005	-2.5 to 2.5	Pass
		40	3.80	-1.352	-0.0016	-2.5 to 2.5	Pass
		50	3.80	0.887	0.0011	-2.5 to 2.5	Pass
	846.6	20	3.40	0.644	0.0008	-2.5 to 2.5	Pass
			3.80	0.937	0.0011	-2.5 to 2.5	Pass
			4.35	0.794	0.0009	-2.5 to 2.5	Pass
		-30	3.80	0.901	0.0011	-2.5 to 2.5	Pass
		-20	3.80	-0.143	-0.0002	-2.5 to 2.5	Pass
		-10	3.80	-1.824	-0.0022	-2.5 to 2.5	Pass
		0	3.80	0.379	0.0004	-2.5 to 2.5	Pass
		10	3.80	0.501	0.0006	-2.5 to 2.5	Pass
		30	3.80	0.336	0.0004	-2.5 to 2.5	Pass
		40	3.80	0.572	0.0007	-2.5 to 2.5	Pass
		50	3.80	0.079	0.0001	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.40	0.944	0.0011	-2.5 to 2.5	Pass
			3.80	0.551	0.0007	-2.5 to 2.5	Pass
			4.35	1.860	0.0023	-2.5 to 2.5	Pass
		-30	3.80	1.166	0.0014	-2.5 to 2.5	Pass
		-20	3.80	0.250	0.0003	-2.5 to 2.5	Pass
		-10	3.80	1.473	0.0018	-2.5 to 2.5	Pass
		0	3.80	1.030	0.0012	-2.5 to 2.5	Pass
		10	3.80	-0.179	-0.0002	-2.5 to 2.5	Pass
		30	3.80	0.644	0.0008	-2.5 to 2.5	Pass
		40	3.80	-0.293	-0.0004	-2.5 to 2.5	Pass
		50	3.80	0.107	0.0001	-2.5 to 2.5	Pass
	836.6	20	3.40	1.323	0.0016	-2.5 to 2.5	Pass
			3.80	1.073	0.0013	-2.5 to 2.5	Pass
			4.35	-0.165	-0.0002	-2.5 to 2.5	Pass
		-30	3.80	2.468	0.0030	-2.5 to 2.5	Pass
		-20	3.80	-0.529	-0.0006	-2.5 to 2.5	Pass
		-10	3.80	1.616	0.0019	-2.5 to 2.5	Pass
		0	3.80	2.117	0.0025	-2.5 to 2.5	Pass

		10	3.80	0.436	0.0005	-2.5 to 2.5	Pass
		30	3.80	1.137	0.0014	-2.5 to 2.5	Pass
		40	3.80	1.388	0.0017	-2.5 to 2.5	Pass
		50	3.80	1.924	0.0023	-2.5 to 2.5	Pass
	846.6	20	3.40	-0.722	-0.0009	-2.5 to 2.5	Pass
			3.80	-1.452	-0.0017	-2.5 to 2.5	Pass
			4.35	0.365	0.0004	-2.5 to 2.5	Pass
		-30	3.80	2.489	0.0029	-2.5 to 2.5	Pass
		-20	3.80	1.080	0.0013	-2.5 to 2.5	Pass
		-10	3.80	0.808	0.0010	-2.5 to 2.5	Pass
		0	3.80	0.329	0.0004	-2.5 to 2.5	Pass
		10	3.80	-0.494	-0.0006	-2.5 to 2.5	Pass
		30	3.80	-0.536	-0.0006	-2.5 to 2.5	Pass
		40	3.80	-0.322	-0.0004	-2.5 to 2.5	Pass
		50	3.80	-1.624	-0.0019	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.40	-1.266	-0.0015	-2.5 to 2.5	Pass
			3.80	-1.531	-0.0019	-2.5 to 2.5	Pass
			4.35	-1.180	-0.0014	-2.5 to 2.5	Pass
		-30	3.80	0.193	0.0002	-2.5 to 2.5	Pass
		-20	3.80	-0.200	-0.0002	-2.5 to 2.5	Pass
		-10	3.80	-2.389	-0.0029	-2.5 to 2.5	Pass
		0	3.80	-2.317	-0.0028	-2.5 to 2.5	Pass
		10	3.80	-0.150	-0.0002	-2.5 to 2.5	Pass
		30	3.80	-0.644	-0.0008	-2.5 to 2.5	Pass
		40	3.80	-0.808	-0.0010	-2.5 to 2.5	Pass
		50	3.80	-0.858	-0.0010	-2.5 to 2.5	Pass
	836.6	20	3.40	-0.708	-0.0008	-2.5 to 2.5	Pass
			3.80	-1.266	-0.0015	-2.5 to 2.5	Pass
			4.35	-0.143	-0.0002	-2.5 to 2.5	Pass
		-30	3.80	1.001	0.0012	-2.5 to 2.5	Pass
		-20	3.80	1.316	0.0016	-2.5 to 2.5	Pass
		-10	3.80	-0.401	-0.0005	-2.5 to 2.5	Pass
		0	3.80	-1.037	-0.0012	-2.5 to 2.5	Pass
		10	3.80	0.815	0.0010	-2.5 to 2.5	Pass
		30	3.80	-1.574	-0.0019	-2.5 to 2.5	Pass
		40	3.80	-0.708	-0.0008	-2.5 to 2.5	Pass
		50	3.80	0.014	0.0000	-2.5 to 2.5	Pass
	846.6	20	3.40	-0.451	-0.0005	-2.5 to 2.5	Pass
			3.80	-0.844	-0.0010	-2.5 to 2.5	Pass
			4.35	-1.531	-0.0018	-2.5 to 2.5	Pass
		-30	3.80	0.823	0.0010	-2.5 to 2.5	Pass
		-20	3.80	-1.302	-0.0015	-2.5 to 2.5	Pass
		-10	3.80	-0.279	-0.0003	-2.5 to 2.5	Pass
		0	3.80	-0.057	-0.0001	-2.5 to 2.5	Pass
		10	3.80	1.738	0.0021	-2.5 to 2.5	Pass
		30	3.80	0.830	0.0010	-2.5 to 2.5	Pass
		40	3.80	1.287	0.0015	-2.5 to 2.5	Pass
		50	3.80	0.908	0.0011	-2.5 to 2.5	Pass