

# 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	3.27	2.961	0.0016	-2.5 to 2.5	Pass
			3.85	3.834	0.0021	-2.5 to 2.5	Pass
			4.43	3.541	0.0019	-2.5 to 2.5	Pass
		-30	3.85	3.898	0.0021	-2.5 to 2.5	Pass
		-20	3.85	4.535	0.0024	-2.5 to 2.5	Pass
		-10	3.85	4.349	0.0023	-2.5 to 2.5	Pass
		0	3.85	4.356	0.0024	-2.5 to 2.5	Pass
		10	3.85	5.035	0.0027	-2.5 to 2.5	Pass
		30	3.85	4.141	0.0022	-2.5 to 2.5	Pass
		40	3.85	4.227	0.0023	-2.5 to 2.5	Pass
	50	3.85	4.706	0.0025	-2.5 to 2.5	Pass	
	1880	20	3.27	-1.116	-0.0006	-2.5 to 2.5	Pass
			3.85	-1.287	-0.0007	-2.5 to 2.5	Pass
			4.43	-1.044	-0.0006	-2.5 to 2.5	Pass
		-30	3.85	-1.023	-0.0005	-2.5 to 2.5	Pass
		-20	3.85	-1.159	-0.0006	-2.5 to 2.5	Pass
		-10	3.85	-0.651	-0.0003	-2.5 to 2.5	Pass
		0	3.85	-1.187	-0.0006	-2.5 to 2.5	Pass
		10	3.85	-1.252	-0.0007	-2.5 to 2.5	Pass
		30	3.85	-1.137	-0.0006	-2.5 to 2.5	Pass
		40	3.85	-1.245	-0.0007	-2.5 to 2.5	Pass
	50	3.85	-0.944	-0.0005	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-8.004	-0.0042	-2.5 to 2.5	Pass
			3.85	-7.875	-0.0041	-2.5 to 2.5	Pass
			4.43	-7.560	-0.0040	-2.5 to 2.5	Pass
		-30	3.85	-8.039	-0.0042	-2.5 to 2.5	Pass
		-20	3.85	-7.460	-0.0039	-2.5 to 2.5	Pass
		-10	3.85	-7.331	-0.0038	-2.5 to 2.5	Pass
		0	3.85	-8.218	-0.0043	-2.5 to 2.5	Pass
		10	3.85	-7.403	-0.0039	-2.5 to 2.5	Pass
30		3.85	-7.324	-0.0038	-2.5 to 2.5	Pass	
40		3.85	-7.195	-0.0038	-2.5 to 2.5	Pass	
50	3.85	-8.190	-0.0043	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.27	7.288	0.0039	-2.5 to 2.5	Pass
			3.85	7.389	0.0040	-2.5 to 2.5	Pass
			4.43	7.653	0.0041	-2.5 to 2.5	Pass
		-30	3.85	7.288	0.0039	-2.5 to 2.5	Pass
		-20	3.85	7.410	0.0040	-2.5 to 2.5	Pass
		-10	3.85	7.732	0.0042	-2.5 to 2.5	Pass
		0	3.85	7.203	0.0039	-2.5 to 2.5	Pass
		10	3.85	7.854	0.0042	-2.5 to 2.5	Pass
		30	3.85	6.588	0.0036	-2.5 to 2.5	Pass
		40	3.85	7.710	0.0042	-2.5 to 2.5	Pass
	50	3.85	7.267	0.0039	-2.5 to 2.5	Pass	
	1880	20	3.27	1.538	0.0008	-2.5 to 2.5	Pass
			3.85	2.182	0.0012	-2.5 to 2.5	Pass
			4.43	1.438	0.0008	-2.5 to 2.5	Pass
-30		3.85	1.302	0.0007	-2.5 to 2.5	Pass	
-20	3.85	2.382	0.0013	-2.5 to 2.5	Pass		

		-10	3.85	2.060	0.0011	-2.5 to 2.5	Pass
		0	3.85	1.395	0.0007	-2.5 to 2.5	Pass
		10	3.85	1.810	0.0010	-2.5 to 2.5	Pass
		30	3.85	2.239	0.0012	-2.5 to 2.5	Pass
		40	3.85	1.338	0.0007	-2.5 to 2.5	Pass
	50	3.85	1.767	0.0009	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-6.351	-0.0033	-2.5 to 2.5	Pass
			3.85	-7.067	-0.0037	-2.5 to 2.5	Pass
			4.43	-7.625	-0.0040	-2.5 to 2.5	Pass
		-30	3.85	-7.982	-0.0042	-2.5 to 2.5	Pass
		-20	3.85	-7.825	-0.0041	-2.5 to 2.5	Pass
		-10	3.85	-7.789	-0.0041	-2.5 to 2.5	Pass
		0	3.85	-7.002	-0.0037	-2.5 to 2.5	Pass
		10	3.85	-6.580	-0.0034	-2.5 to 2.5	Pass
		30	3.85	-8.240	-0.0043	-2.5 to 2.5	Pass
40		3.85	-7.896	-0.0041	-2.5 to 2.5	Pass	
50	3.85	-7.339	-0.0038	-2.5 to 2.5	Pass		
HSUPA	1852.4	20	3.27	3.891	0.0021	-2.5 to 2.5	Pass
			3.85	2.739	0.0015	-2.5 to 2.5	Pass
			4.43	4.063	0.0022	-2.5 to 2.5	Pass
		-30	3.85	3.877	0.0021	-2.5 to 2.5	Pass
		-20	3.85	3.955	0.0021	-2.5 to 2.5	Pass
		-10	3.85	3.362	0.0018	-2.5 to 2.5	Pass
		0	3.85	3.598	0.0019	-2.5 to 2.5	Pass
		10	3.85	3.355	0.0018	-2.5 to 2.5	Pass
		30	3.85	4.356	0.0024	-2.5 to 2.5	Pass
		40	3.85	4.807	0.0026	-2.5 to 2.5	Pass
	50	3.85	4.392	0.0024	-2.5 to 2.5	Pass	
	1880	20	3.27	-3.226	-0.0017	-2.5 to 2.5	Pass
			3.85	-3.190	-0.0017	-2.5 to 2.5	Pass
			4.43	-2.325	-0.0012	-2.5 to 2.5	Pass
		-30	3.85	-3.605	-0.0019	-2.5 to 2.5	Pass
		-20	3.85	-2.124	-0.0011	-2.5 to 2.5	Pass
		-10	3.85	-2.882	-0.0015	-2.5 to 2.5	Pass
		0	3.85	-2.611	-0.0014	-2.5 to 2.5	Pass
		10	3.85	-2.253	-0.0012	-2.5 to 2.5	Pass
		30	3.85	-2.911	-0.0015	-2.5 to 2.5	Pass
		40	3.85	-2.882	-0.0015	-2.5 to 2.5	Pass
	50	3.85	-3.805	-0.0020	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-11.022	-0.0058	-2.5 to 2.5	Pass
			3.85	-8.919	-0.0047	-2.5 to 2.5	Pass
			4.43	-9.434	-0.0049	-2.5 to 2.5	Pass
-30		3.85	-9.627	-0.0050	-2.5 to 2.5	Pass	
-20		3.85	-9.499	-0.0050	-2.5 to 2.5	Pass	
-10		3.85	-9.048	-0.0047	-2.5 to 2.5	Pass	
0		3.85	-9.184	-0.0048	-2.5 to 2.5	Pass	
10		3.85	-9.449	-0.0050	-2.5 to 2.5	Pass	
30		3.85	-9.148	-0.0048	-2.5 to 2.5	Pass	
40		3.85	-9.463	-0.0050	-2.5 to 2.5	Pass	
50	3.85	-8.955	-0.0047	-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	3.27	24.083	0.0141	-2.5 to 2.5	Pass
			3.85	25.449	0.0149	-2.5 to 2.5	Pass
			4.43	25.477	0.0149	-2.5 to 2.5	Pass
		-30	3.85	25.892	0.0151	-2.5 to 2.5	Pass
		-20	3.85	24.948	0.0146	-2.5 to 2.5	Pass
		-10	3.85	24.991	0.0146	-2.5 to 2.5	Pass
		0	3.85	24.927	0.0146	-2.5 to 2.5	Pass
		10	3.85	25.306	0.0148	-2.5 to 2.5	Pass
		30	3.85	24.998	0.0146	-2.5 to 2.5	Pass
		40	3.85	24.633	0.0144	-2.5 to 2.5	Pass
	50	3.85	25.678	0.0150	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-0.958	-0.0006	-2.5 to 2.5	Pass
			3.85	0.129	0.0001	-2.5 to 2.5	Pass
			4.43	-0.315	-0.0002	-2.5 to 2.5	Pass
		-30	3.85	0.279	0.0002	-2.5 to 2.5	Pass
		-20	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
		-10	3.85	-0.093	-0.0001	-2.5 to 2.5	Pass
		0	3.85	-0.536	-0.0003	-2.5 to 2.5	Pass
		10	3.85	-0.279	-0.0002	-2.5 to 2.5	Pass
		30	3.85	-1.137	-0.0007	-2.5 to 2.5	Pass
		40	3.85	-0.207	-0.0001	-2.5 to 2.5	Pass
	50	3.85	0.114	0.0001	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-24.383	-0.0139	-2.5 to 2.5	Pass
			3.85	-24.726	-0.0141	-2.5 to 2.5	Pass
			4.43	-24.555	-0.0140	-2.5 to 2.5	Pass
		-30	3.85	-24.776	-0.0141	-2.5 to 2.5	Pass
		-20	3.85	-25.356	-0.0145	-2.5 to 2.5	Pass
		-10	3.85	-24.662	-0.0141	-2.5 to 2.5	Pass
		0	3.85	-24.841	-0.0142	-2.5 to 2.5	Pass
		10	3.85	-24.140	-0.0138	-2.5 to 2.5	Pass
30		3.85	-25.663	-0.0146	-2.5 to 2.5	Pass	
40		3.85	-24.776	-0.0141	-2.5 to 2.5	Pass	
50	3.85	-24.920	-0.0142	-2.5 to 2.5	Pass		
HSDPA	1712.4	20	3.27	22.910	0.0134	-2.5 to 2.5	Pass
			3.85	23.789	0.0139	-2.5 to 2.5	Pass
			4.43	23.146	0.0135	-2.5 to 2.5	Pass
		-30	3.85	23.675	0.0138	-2.5 to 2.5	Pass
		-20	3.85	23.575	0.0138	-2.5 to 2.5	Pass
		-10	3.85	23.890	0.0140	-2.5 to 2.5	Pass
		0	3.85	24.176	0.0141	-2.5 to 2.5	Pass
		10	3.85	24.519	0.0143	-2.5 to 2.5	Pass
		30	3.85	24.440	0.0143	-2.5 to 2.5	Pass
		40	3.85	24.133	0.0141	-2.5 to 2.5	Pass
	50	3.85	25.027	0.0146	-2.5 to 2.5	Pass	
	1732.6	20	3.27	0.937	0.0005	-2.5 to 2.5	Pass
			3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
			4.43	-0.544	-0.0003	-2.5 to 2.5	Pass
		-30	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
		-20	3.85	0.165	0.0001	-2.5 to 2.5	Pass
		-10	3.85	-0.544	-0.0003	-2.5 to 2.5	Pass
		0	3.85	0.257	0.0001	-2.5 to 2.5	Pass
		10	3.85	-0.365	-0.0002	-2.5 to 2.5	Pass
		30	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
40		3.85	0.587	0.0003	-2.5 to 2.5	Pass	
50	3.85	0.293	0.0002	-2.5 to 2.5	Pass		
1752.6	20	3.27	-23.882	-0.0136	-2.5 to 2.5	Pass	

			3.85	-23.310	-0.0133	-2.5 to 2.5	Pass	
			4.43	-23.503	-0.0134	-2.5 to 2.5	Pass	
			-30	3.85	-22.910	-0.0131	-2.5 to 2.5	Pass
		-20	3.85	-22.945	-0.0131	-2.5 to 2.5	Pass	
		-10	3.85	-23.217	-0.0132	-2.5 to 2.5	Pass	
		0	3.85	-23.038	-0.0131	-2.5 to 2.5	Pass	
		10	3.85	-22.938	-0.0131	-2.5 to 2.5	Pass	
		30	3.85	-23.346	-0.0133	-2.5 to 2.5	Pass	
		40	3.85	-23.718	-0.0135	-2.5 to 2.5	Pass	
50	3.85	-22.459	-0.0128	-2.5 to 2.5	Pass			
HSUPA	1712.4	20	3.27	23.832	0.0139	-2.5 to 2.5	Pass	
			3.85	22.516	0.0131	-2.5 to 2.5	Pass	
			4.43	23.682	0.0138	-2.5 to 2.5	Pass	
		-30	3.85	23.432	0.0137	-2.5 to 2.5	Pass	
		-20	3.85	23.983	0.0140	-2.5 to 2.5	Pass	
		-10	3.85	23.897	0.0140	-2.5 to 2.5	Pass	
		0	3.85	22.802	0.0133	-2.5 to 2.5	Pass	
		10	3.85	23.661	0.0138	-2.5 to 2.5	Pass	
		30	3.85	22.788	0.0133	-2.5 to 2.5	Pass	
		40	3.85	22.995	0.0134	-2.5 to 2.5	Pass	
		50	3.85	24.354	0.0142	-2.5 to 2.5	Pass	
		1732.6	20	3.27	-2.453	-0.0014	-2.5 to 2.5	Pass
				3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
				4.43	-1.538	-0.0009	-2.5 to 2.5	Pass
			-30	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
	-20		3.85	-1.431	-0.0008	-2.5 to 2.5	Pass	
	-10		3.85	-1.087	-0.0006	-2.5 to 2.5	Pass	
	0		3.85	-0.858	-0.0005	-2.5 to 2.5	Pass	
	10		3.85	-0.701	-0.0004	-2.5 to 2.5	Pass	
	30		3.85	-0.815	-0.0005	-2.5 to 2.5	Pass	
	40	3.85	-1.094	-0.0006	-2.5 to 2.5	Pass		
	50	3.85	-0.908	-0.0005	-2.5 to 2.5	Pass		
	1752.6	20	3.27	-25.527	-0.0146	-2.5 to 2.5	Pass	
			3.85	-25.485	-0.0145	-2.5 to 2.5	Pass	
			4.43	-24.147	-0.0138	-2.5 to 2.5	Pass	
		-30	3.85	-24.698	-0.0141	-2.5 to 2.5	Pass	
		-20	3.85	-24.912	-0.0142	-2.5 to 2.5	Pass	
		-10	3.85	-24.498	-0.0140	-2.5 to 2.5	Pass	
		0	3.85	-24.805	-0.0142	-2.5 to 2.5	Pass	
		10	3.85	-24.805	-0.0142	-2.5 to 2.5	Pass	
30		3.85	-24.619	-0.0140	-2.5 to 2.5	Pass		
40	3.85	-24.526	-0.0140	-2.5 to 2.5	Pass			
50	3.85	-25.148	-0.0143	-2.5 to 2.5	Pass			

### 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	3.27	3.705	0.0045	-2.5 to 2.5	Pass
			3.85	3.669	0.0044	-2.5 to 2.5	Pass
			4.43	3.633	0.0044	-2.5 to 2.5	Pass

	836.6	-30	3.85	3.376	0.0041	-2.5 to 2.5	Pass	
		-20	3.85	3.376	0.0041	-2.5 to 2.5	Pass	
		-10	3.85	3.648	0.0044	-2.5 to 2.5	Pass	
		0	3.85	3.362	0.0041	-2.5 to 2.5	Pass	
		10	3.85	3.383	0.0041	-2.5 to 2.5	Pass	
		30	3.85	3.498	0.0042	-2.5 to 2.5	Pass	
		40	3.85	3.769	0.0046	-2.5 to 2.5	Pass	
		50	3.85	3.734	0.0045	-2.5 to 2.5	Pass	
		20	3.27	0.107	0.0001	-2.5 to 2.5	Pass	
			3.85	0.107	0.0001	-2.5 to 2.5	Pass	
			4.43	-0.172	-0.0002	-2.5 to 2.5	Pass	
		-30	3.85	0.229	0.0003	-2.5 to 2.5	Pass	
		-20	3.85	0.165	0.0002	-2.5 to 2.5	Pass	
		-10	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass	
	0	3.85	0.279	0.0003	-2.5 to 2.5	Pass		
	10	3.85	0.029	0.0000	-2.5 to 2.5	Pass		
	30	3.85	0.000	0.0000	-2.5 to 2.5	Pass		
	40	3.85	0.136	0.0002	-2.5 to 2.5	Pass		
	50	3.85	0.036	0.0000	-2.5 to 2.5	Pass		
	846.6	20	3.27	-3.748	-0.0044	-2.5 to 2.5	Pass	
			3.85	-3.183	-0.0038	-2.5 to 2.5	Pass	
			4.43	-3.183	-0.0038	-2.5 to 2.5	Pass	
		-30	3.85	-3.319	-0.0039	-2.5 to 2.5	Pass	
		-20	3.85	-3.519	-0.0042	-2.5 to 2.5	Pass	
		-10	3.85	-3.405	-0.0040	-2.5 to 2.5	Pass	
		0	3.85	-2.904	-0.0034	-2.5 to 2.5	Pass	
		10	3.85	-3.319	-0.0039	-2.5 to 2.5	Pass	
		30	3.85	-3.469	-0.0041	-2.5 to 2.5	Pass	
		40	3.85	-3.161	-0.0037	-2.5 to 2.5	Pass	
	50	3.85	-3.097	-0.0037	-2.5 to 2.5	Pass		
HSDPA	826.4	20	3.27	3.047	0.0037	-2.5 to 2.5	Pass	
			3.85	2.410	0.0029	-2.5 to 2.5	Pass	
			4.43	2.489	0.0030	-2.5 to 2.5	Pass	
		-30	3.85	2.396	0.0029	-2.5 to 2.5	Pass	
		-20	3.85	2.246	0.0027	-2.5 to 2.5	Pass	
		-10	3.85	2.668	0.0032	-2.5 to 2.5	Pass	
		0	3.85	2.053	0.0025	-2.5 to 2.5	Pass	
		10	3.85	2.117	0.0026	-2.5 to 2.5	Pass	
		30	3.85	2.518	0.0030	-2.5 to 2.5	Pass	
		40	3.85	2.546	0.0031	-2.5 to 2.5	Pass	
		50	3.85	2.646	0.0032	-2.5 to 2.5	Pass	
		836.6	20	3.27	-0.515	-0.0006	-2.5 to 2.5	Pass
				3.85	-0.308	-0.0004	-2.5 to 2.5	Pass
				4.43	-0.265	-0.0003	-2.5 to 2.5	Pass
	-30		3.85	-0.393	-0.0005	-2.5 to 2.5	Pass	
	-20		3.85	-0.644	-0.0008	-2.5 to 2.5	Pass	
	-10		3.85	-0.207	-0.0002	-2.5 to 2.5	Pass	
	0		3.85	-0.157	-0.0002	-2.5 to 2.5	Pass	
	10		3.85	-0.300	-0.0004	-2.5 to 2.5	Pass	
	30		3.85	-0.594	-0.0007	-2.5 to 2.5	Pass	
	40		3.85	-0.293	-0.0004	-2.5 to 2.5	Pass	
	50	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass		
	846.6	20	3.27	-2.933	-0.0035	-2.5 to 2.5	Pass	
			3.85	-2.961	-0.0035	-2.5 to 2.5	Pass	
			4.43	-2.646	-0.0031	-2.5 to 2.5	Pass	
		-30	3.85	-2.847	-0.0034	-2.5 to 2.5	Pass	
		-20	3.85	-2.739	-0.0032	-2.5 to 2.5	Pass	
		-10	3.85	-2.832	-0.0033	-2.5 to 2.5	Pass	
		0	3.85	-2.747	-0.0032	-2.5 to 2.5	Pass	

		10	3.85	-2.947	-0.0035	-2.5 to 2.5	Pass
		30	3.85	-2.954	-0.0035	-2.5 to 2.5	Pass
		40	3.85	-2.704	-0.0032	-2.5 to 2.5	Pass
		50	3.85	-2.768	-0.0033	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.27	2.403	0.0029	-2.5 to 2.5	Pass
			3.85	2.768	0.0033	-2.5 to 2.5	Pass
			4.43	3.154	0.0038	-2.5 to 2.5	Pass
		-30	3.85	3.197	0.0039	-2.5 to 2.5	Pass
		-20	3.85	2.818	0.0034	-2.5 to 2.5	Pass
		-10	3.85	3.183	0.0039	-2.5 to 2.5	Pass
		0	3.85	3.362	0.0041	-2.5 to 2.5	Pass
		10	3.85	3.419	0.0041	-2.5 to 2.5	Pass
		30	3.85	2.604	0.0032	-2.5 to 2.5	Pass
		40	3.85	3.190	0.0039	-2.5 to 2.5	Pass
	50	3.85	2.818	0.0034	-2.5 to 2.5	Pass	
	836.6	20	3.27	-0.007	0.0000	-2.5 to 2.5	Pass
			3.85	0.365	0.0004	-2.5 to 2.5	Pass
			4.43	0.329	0.0004	-2.5 to 2.5	Pass
		-30	3.85	-0.279	-0.0003	-2.5 to 2.5	Pass
		-20	3.85	0.293	0.0004	-2.5 to 2.5	Pass
		-10	3.85	-0.107	-0.0001	-2.5 to 2.5	Pass
		0	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
		10	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
		30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
		40	3.85	0.000	0.0000	-2.5 to 2.5	Pass
	50	3.85	-0.186	-0.0002	-2.5 to 2.5	Pass	
	846.6	20	3.27	-2.103	-0.0025	-2.5 to 2.5	Pass
			3.85	-2.203	-0.0026	-2.5 to 2.5	Pass
			4.43	-2.382	-0.0028	-2.5 to 2.5	Pass
		-30	3.85	-2.024	-0.0024	-2.5 to 2.5	Pass
		-20	3.85	-2.089	-0.0025	-2.5 to 2.5	Pass
		-10	3.85	-2.296	-0.0027	-2.5 to 2.5	Pass
		0	3.85	-2.253	-0.0027	-2.5 to 2.5	Pass
		10	3.85	-2.003	-0.0024	-2.5 to 2.5	Pass
30		3.85	-2.582	-0.0030	-2.5 to 2.5	Pass	
40		3.85	-2.010	-0.0024	-2.5 to 2.5	Pass	
50	3.85	-2.389	-0.0028	-2.5 to 2.5	Pass		