

1. Frequency stability

1.1 Test Result

Test Band: 2 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	8.9836	7.1669	3.9053	0.0048	0.0038	0.0020	2.50	PASS
		NV	8.5688	6.7163	7.5173	0.0046	0.0036	0.0039	2.50	PASS
		HV	11.1866	7.0810	7.0882	0.0060	0.0038	0.0037	2.50	PASS
HSDPA	NT	LV	9.7704	5.5432	1.5950	0.0053	0.0029	0.0008	2.50	PASS
		NV	9.3698	3.4761	-0.7796	0.0051	0.0018	-0.0004	2.50	PASS
		HV	11.9162	5.3787	1.1444	0.0064	0.0029	0.0006	2.50	PASS
RMC	NT	LV	2.6894	-2.1386	-8.0323	0.0015	-0.0011	-0.0042	2.50	PASS
		NV	2.3961	-2.3961	-7.7605	0.0013	-0.0013	-0.0041	2.50	PASS
		HV	3.4976	-2.0885	-7.5674	0.0019	-0.0011	-0.0040	2.50	PASS

Test Band: 2 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	10.9935	5.6791	6.6018	0.0059	0.0030	0.0035	2.50	PASS
		-20.00	10.8433	7.7963	4.3344	0.0059	0.0041	0.0023	2.50	PASS
		-10.00	9.6488	8.2898	6.4516	0.0052	0.0044	0.0034	2.50	PASS
		0.00	8.4829	7.8392	6.8021	0.0046	0.0042	0.0036	2.50	PASS
		10.00	10.6430	8.1825	6.4731	0.0057	0.0044	0.0034	2.50	PASS
		20.00	9.5844	7.9036	6.9165	0.0052	0.0042	0.0036	2.50	PASS
		30.00	11.6658	6.7520	6.7019	0.0063	0.0036	0.0035	2.50	PASS
		40.00	10.9076	6.0368	4.3201	0.0059	0.0032	0.0023	2.50	PASS
		50.00	11.5728	5.9009	6.3157	0.0062	0.0031	0.0033	2.50	PASS
HSDPA	NV	-30.00	9.3698	3.9482	1.0872	0.0051	0.0021	0.0006	2.50	PASS
		-20.00	9.5487	3.3331	-0.4435	0.0052	0.0018	-0.0002	2.50	PASS
		-10.00	10.1495	3.7551	-0.1287	0.0055	0.0020	-0.0001	2.50	PASS
		0.00	10.7288	3.6907	-1.9240	0.0058	0.0020	-0.0010	2.50	PASS
		10.00	11.3511	4.9353	-0.7010	0.0061	0.0026	-0.0004	2.50	PASS
		20.00	11.3583	3.1185	-1.0800	0.0061	0.0017	-0.0006	2.50	PASS
		30.00	9.4056	4.1986	-0.9942	0.0051	0.0022	-0.0005	2.50	PASS
		40.00	9.8491	3.5834	-0.7367	0.0053	0.0019	-0.0004	2.50	PASS
		50.00	12.0378	3.5119	1.9097	0.0065	0.0019	0.0010	2.50	PASS
RMC	NV	-30.00	3.1900	-1.7810	-7.8320	0.0017	-0.0009	-0.0041	2.50	PASS
		-20.00	3.3331	-2.5249	-7.5030	0.0018	-0.0013	-0.0039	2.50	PASS
		-10.00	2.2602	-2.4748	-7.5459	0.0012	-0.0013	-0.0040	2.50	PASS
		0.00	2.2960	-1.7524	-7.1740	0.0012	-0.0009	-0.0038	2.50	PASS
		10.00	2.9969	-1.7238	-7.9966	0.0016	-0.0009	-0.0042	2.50	PASS
		20.00	3.0828	-1.6809	-7.3957	0.0017	-0.0009	-0.0039	2.50	PASS
		30.00	2.8038	-1.8239	-7.3957	0.0015	-0.0010	-0.0039	2.50	PASS
		40.00	2.9540	-2.0456	-7.6175	0.0016	-0.0011	-0.0040	2.50	PASS
		50.00	3.0398	-2.0456	-7.7748	0.0016	-0.0011	-0.0041	2.50	PASS

2. Frequency stability

2.1 Test Result

Test Band: 4 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	28.5244	3.2187	-13.3467	0.0167	0.0019	-0.0076	2.50	PASS
		NV	27.6661	2.8682	-14.1621	0.0162	0.0017	-0.0081	2.50	PASS
		HV	30.0908	4.9925	-11.1794	0.0176	0.0029	-0.0064	2.50	PASS
HSDPA	NT	LV	29.4328	3.4261	-2.3317	0.0172	0.0020	-0.0013	2.50	PASS
		NV	30.6988	5.4145	-2.0099	0.0179	0.0031	-0.0011	2.50	PASS
		HV	29.1753	2.6608	-5.5218	0.0170	0.0015	-0.0032	2.50	PASS
RMC	NT	LV	21.2145	-2.0456	-21.6508	0.0124	-0.0012	-0.0124	2.50	PASS
		NV	21.0857	-2.6393	-21.2359	0.0123	-0.0015	-0.0121	2.50	PASS
		HV	20.8998	-2.2602	-21.9512	0.0122	-0.0013	-0.0125	2.50	PASS

Test Band: 4 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	30.1909	5.9867	-13.5541	0.0176	0.0035	-0.0077	2.50	PASS
		-20.00	27.4515	2.8467	-13.9976	0.0160	0.0016	-0.0080	2.50	PASS
		-10.00	30.3197	3.3832	-11.2939	0.0177	0.0020	-0.0064	2.50	PASS
		0.00	27.3657	3.0899	-13.7973	0.0160	0.0018	-0.0079	2.50	PASS
		10.00	27.3871	4.1914	-13.5112	0.0160	0.0024	-0.0077	2.50	PASS
		20.00	28.7318	3.7980	-10.4642	0.0168	0.0022	-0.0060	2.50	PASS
		30.00	29.8333	3.3045	-14.7986	0.0174	0.0019	-0.0084	2.50	PASS
		40.00	28.4100	3.9411	-14.0405	0.0166	0.0023	-0.0080	2.50	PASS
		50.00	29.2897	3.9625	-13.1679	0.0171	0.0023	-0.0075	2.50	PASS
HSDPA	NV	-30.00	29.0608	3.2616	-3.4046	0.0170	0.0019	-0.0019	2.50	PASS
		-20.00	29.3469	2.7466	-6.2656	0.0171	0.0016	-0.0036	2.50	PASS
		-10.00	28.3599	5.4145	-2.3460	0.0166	0.0031	-0.0013	2.50	PASS
		0.00	27.7734	3.3331	-3.9482	0.0162	0.0019	-0.0023	2.50	PASS
		10.00	29.3398	3.4833	-2.1529	0.0171	0.0020	-0.0012	2.50	PASS
		20.00	28.6388	3.2616	-5.4216	0.0167	0.0019	-0.0031	2.50	PASS
		30.00	31.6072	5.0640	-2.8968	0.0185	0.0029	-0.0017	2.50	PASS
		40.00	31.5428	2.9755	-5.7793	0.0184	0.0017	-0.0033	2.50	PASS
		50.00	31.2209	3.3116	-3.3832	0.0182	0.0019	-0.0019	2.50	PASS
RMC	NV	-30.00	21.7938	-2.7180	-20.9141	0.0127	-0.0016	-0.0119	2.50	PASS
		-20.00	21.6722	-2.9397	-20.8426	0.0127	-0.0017	-0.0119	2.50	PASS
		-10.00	21.1501	-1.9598	-22.0084	0.0124	-0.0011	-0.0126	2.50	PASS
		0.00	20.6709	-2.4748	-21.2431	0.0121	-0.0014	-0.0121	2.50	PASS
		10.00	21.0714	-2.0313	-20.8855	0.0123	-0.0012	-0.0119	2.50	PASS
		20.00	21.0285	-2.4891	-20.8282	0.0123	-0.0014	-0.0119	2.50	PASS
		30.00	21.4648	-2.2173	-21.1358	0.0125	-0.0013	-0.0121	2.50	PASS
		40.00	21.4362	-2.2388	-21.4648	0.0125	-0.0013	-0.0122	2.50	PASS
		50.00	21.0714	-2.1243	-22.3160	0.0123	-0.0012	-0.0127	2.50	PASS

3. Frequency stability

3.1 Test Result

Test Band: 5 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	4.5419	0.2432	-0.8869	0.0055	0.0003	-0.0010	2.50	PASS
		NV	4.5562	0.3719	-0.6366	0.0055	0.0004	-0.0008	2.50	PASS
		HV	4.2629	0.6151	-0.2432	0.0052	0.0007	-0.0003	2.50	PASS
HSDPA	NT	LV	4.2558	1.1516	-0.8726	0.0051	0.0014	-0.0010	2.50	PASS
		NV	3.6550	1.4305	-0.7582	0.0044	0.0017	-0.0009	2.50	PASS
		HV	3.8481	0.3862	-1.3447	0.0047	0.0005	-0.0016	2.50	PASS
RMC	NT	LV	1.0157	-1.4019	-2.8110	0.0012	-0.0017	-0.0033	2.50	PASS
		NV	0.9799	-1.3733	-3.1471	0.0012	-0.0016	-0.0037	2.50	PASS
		HV	1.0729	-1.1730	-2.6679	0.0013	-0.0014	-0.0032	2.50	PASS

Test Band: 5 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	3.5691	0.5651	-0.8225	0.0043	0.0007	-0.0010	2.50	PASS
		-20.00	4.1270	0.0501	-0.2432	0.0050	0.0001	-0.0003	2.50	PASS
		-10.00	3.3689	-0.2933	-0.0215	0.0041	-0.0004	0.0000	2.50	PASS
		0.00	4.5490	-0.0429	-0.9084	0.0055	-0.0001	-0.0011	2.50	PASS
		10.00	3.4904	0.1001	-0.2861	0.0042	0.0001	-0.0003	2.50	PASS
		20.00	4.1127	0.5007	-1.0586	0.0050	0.0006	-0.0013	2.50	PASS
		30.00	4.5633	1.1373	-0.4148	0.0055	0.0014	-0.0005	2.50	PASS
		40.00	3.5834	0.6437	-0.9370	0.0043	0.0008	-0.0011	2.50	PASS
		50.00	3.9268	0.4363	-0.3433	0.0048	0.0005	-0.0004	2.50	PASS
HSDPA	NV	-30.00	4.3845	0.6795	-1.4234	0.0053	0.0008	-0.0017	2.50	PASS
		-20.00	4.2415	0.6866	-1.1659	0.0051	0.0008	-0.0014	2.50	PASS
		-10.00	3.6621	0.5436	-1.1945	0.0044	0.0006	-0.0014	2.50	PASS
		0.00	3.7050	0.8154	-1.0514	0.0045	0.0010	-0.0012	2.50	PASS
		10.00	3.7408	1.0514	-0.8440	0.0045	0.0013	-0.0010	2.50	PASS
		20.00	4.0054	0.5579	-0.3648	0.0048	0.0007	-0.0004	2.50	PASS
		30.00	3.7766	0.9155	-0.3791	0.0046	0.0011	-0.0004	2.50	PASS
		40.00	3.6049	0.5865	-1.0085	0.0044	0.0007	-0.0012	2.50	PASS
		50.00	3.9983	0.6580	-1.0943	0.0048	0.0008	-0.0013	2.50	PASS
RMC	NV	-30.00	0.8726	-1.4734	-2.7394	0.0011	-0.0018	-0.0032	2.50	PASS
		-20.00	1.1301	-1.1015	-2.9755	0.0014	-0.0013	-0.0035	2.50	PASS
		-10.00	0.9656	-1.2732	-3.0327	0.0012	-0.0015	-0.0036	2.50	PASS
		0.00	0.6437	-1.1587	-2.7895	0.0008	-0.0014	-0.0033	2.50	PASS
		10.00	1.1230	-1.3590	-3.2115	0.0014	-0.0016	-0.0038	2.50	PASS
		20.00	1.1158	-1.5092	-2.9826	0.0014	-0.0018	-0.0035	2.50	PASS
		30.00	1.0228	-1.5092	-2.8896	0.0012	-0.0018	-0.0034	2.50	PASS
		40.00	1.4520	-1.2803	-3.2544	0.0018	-0.0015	-0.0038	2.50	PASS
		50.00	0.6437	-1.6809	-3.0684	0.0008	-0.0020	-0.0036	2.50	PASS

Note: All modes have been tested, only record the worst test result.