

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	-17.1590	-31.7788	-21.8868	-0.0093	-0.0169	-0.0115	2.50	PASS
		NV	-21.0571	-16.6011	-20.1988	-0.0114	-0.0088	-0.0106	2.50	PASS
		HV	-24.1399	-17.1018	-19.7124	-0.0130	-0.0091	-0.0103	2.50	PASS
HSDPA	NT	LV	-21.0500	-20.4492	-19.5408	-0.0114	-0.0109	-0.0102	2.50	PASS
		NV	-21.2502	-20.1917	-23.8252	-0.0115	-0.0107	-0.0125	2.50	PASS
		HV	-22.1229	-20.8998	-22.2301	-0.0119	-0.0111	-0.0117	2.50	PASS
RMC	NT	LV	-8.3542	-13.5469	-13.9117	-0.0045	-0.0072	-0.0073	2.50	PASS
		NV	-8.5115	-12.8102	-13.5112	-0.0046	-0.0068	-0.0071	2.50	PASS
		HV	-11.7159	-12.5956	-11.5371	-0.0063	-0.0067	-0.0060	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	-18.9829	-20.9856	-25.6276	-0.0102	-0.0112	-0.0134	2.50	PASS
		-20.00	-18.5823	-18.9972	-21.7295	-0.0100	-0.0101	-0.0114	2.50	PASS
		-10.00	-21.3432	-26.7792	-27.0224	-0.0115	-0.0142	-0.0142	2.50	PASS
		0.00	-27.6375	-23.8895	-25.1985	-0.0149	-0.0127	-0.0132	2.50	PASS
		10.00	-17.4737	-18.2605	-18.6110	-0.0094	-0.0097	-0.0098	2.50	PASS
		20.00	-18.6753	-20.2918	-22.4233	-0.0101	-0.0108	-0.0118	2.50	PASS
		30.00	-22.0013	-20.0558	-20.1130	-0.0119	-0.0107	-0.0105	2.50	PASS
		40.00	-23.5820	-25.9209	-20.3991	-0.0127	-0.0138	-0.0107	2.50	PASS
		50.00	-22.1658	-23.6392	-28.2025	-0.0120	-0.0126	-0.0148	2.50	PASS
HSDPA	NV	-30.00	-21.6222	-21.0500	-23.4818	-0.0117	-0.0112	-0.0123	2.50	PASS
		-20.00	-27.1511	-24.2329	-21.0214	-0.0147	-0.0129	-0.0110	2.50	PASS
		-10.00	-21.2789	-24.2758	-27.0438	-0.0115	-0.0129	-0.0142	2.50	PASS
		0.00	-22.4376	-22.5520	-16.8729	-0.0121	-0.0120	-0.0088	2.50	PASS
		10.00	-24.3330	-24.1685	-21.9584	-0.0131	-0.0129	-0.0115	2.50	PASS
		20.00	-24.3688	-25.7921	-16.7155	-0.0132	-0.0137	-0.0088	2.50	PASS
		30.00	-17.9458	-22.0728	-19.9699	-0.0097	-0.0117	-0.0105	2.50	PASS
		40.00	-20.0987	-27.3085	-21.4004	-0.0109	-0.0145	-0.0112	2.50	PASS
		50.00	-19.0401	-24.0183	-21.0571	-0.0103	-0.0128	-0.0110	2.50	PASS
RMC	NV	-30.00	-16.8228	-12.6457	-14.4267	-0.0091	-0.0067	-0.0076	2.50	PASS
		-20.00	-11.8661	-12.7172	-13.9189	-0.0064	-0.0068	-0.0073	2.50	PASS
		-10.00	-12.6171	-12.5527	-16.7584	-0.0068	-0.0067	-0.0088	2.50	PASS
		0.00	-19.3977	-13.8974	-16.6798	-0.0105	-0.0074	-0.0087	2.50	PASS
		10.00	-14.3480	-10.8719	-12.3167	-0.0077	-0.0058	-0.0065	2.50	PASS
		20.00	-14.2336	-13.7687	-11.9233	-0.0077	-0.0073	-0.0063	2.50	PASS
		30.00	-13.6542	-14.6627	-13.1464	-0.0074	-0.0078	-0.0069	2.50	PASS
		40.00	-18.9042	-15.3351	-14.6413	-0.0102	-0.0082	-0.0077	2.50	PASS
		50.00	-10.2353	-15.5067	-15.3279	-0.0055	-0.0082	-0.0080	2.50	PASS

2. Frequency stability

2.1 Test Result

Test Band: 4 (Frequency Error VS. Voltage)						
Test Mode	Test	Test Volt.	Freq. Error (Hz)		Freq. vs. rated (ppm)	
					Limit	Verdict

	Temp.		LCH	MCH	HCH	LCH	MCH	HCH	(ppm)	
HSUPA	NT	LV	-15.8286	-20.9999	-18.1532	-0.0092	-0.0121	-0.0104	2.50	PASS
		NV	-16.1505	-22.0585	-17.1661	-0.0094	-0.0127	-0.0098	2.50	PASS
		HV	-18.6110	-17.3593	-22.7308	-0.0109	-0.0100	-0.0130	2.50	PASS
HSDPA	NT	LV	-17.9672	-22.2158	-14.7986	-0.0105	-0.0128	-0.0084	2.50	PASS
		NV	-20.2846	-20.6494	-17.9458	-0.0118	-0.0119	-0.0102	2.50	PASS
		HV	-23.7608	-19.9699	-16.1362	-0.0139	-0.0115	-0.0092	2.50	PASS
RMC	NT	LV	-10.5572	-15.4424	-6.2442	-0.0062	-0.0089	-0.0036	2.50	PASS
		NV	-11.4083	-12.0878	-8.3327	-0.0067	-0.0070	-0.0048	2.50	PASS
		HV	-15.7571	-16.2935	-10.6788	-0.0092	-0.0094	-0.0061	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	-18.8470	-16.8872	-17.5953	-0.0110	-0.0097	-0.0100	2.50	PASS
		-20.00	-18.5251	-18.3248	-18.6181	-0.0108	-0.0106	-0.0106	2.50	PASS
		-10.00	-22.8739	-22.6164	-18.7182	-0.0134	-0.0131	-0.0107	2.50	PASS
		0.00	-19.9056	-20.3133	-17.1948	-0.0116	-0.0117	-0.0098	2.50	PASS
		10.00	-21.8725	-19.9413	-18.2104	-0.0128	-0.0115	-0.0104	2.50	PASS
		20.00	-19.8054	-20.5636	-15.5854	-0.0116	-0.0119	-0.0089	2.50	PASS
		30.00	-22.5162	-19.2761	-18.0173	-0.0131	-0.0111	-0.0103	2.50	PASS
		40.00	-20.4349	-21.7366	-13.4325	-0.0119	-0.0125	-0.0077	2.50	PASS
		50.00	-20.8926	-20.1988	-17.5953	-0.0122	-0.0117	-0.0100	2.50	PASS
HSDPA	NV	-30.00	-20.4921	-24.8194	-16.5510	-0.0120	-0.0143	-0.0094	2.50	PASS
		-20.00	-21.0285	-22.1872	-14.1192	-0.0123	-0.0128	-0.0081	2.50	PASS
		-10.00	-23.5391	-21.1000	-19.7983	-0.0137	-0.0122	-0.0113	2.50	PASS
		0.00	-20.5493	-22.6808	-16.5582	-0.0120	-0.0131	-0.0094	2.50	PASS
		10.00	-22.9311	-26.0210	-13.7830	-0.0134	-0.0150	-0.0079	2.50	PASS
		20.00	-21.8940	-20.2346	-17.1948	-0.0128	-0.0117	-0.0098	2.50	PASS
		30.00	-25.0125	-21.2502	-15.3995	-0.0146	-0.0123	-0.0088	2.50	PASS
		40.00	-20.5779	-24.2186	-20.7710	-0.0120	-0.0140	-0.0119	2.50	PASS
		50.00	-22.3088	-23.5891	-15.6784	-0.0130	-0.0136	-0.0089	2.50	PASS
RMC	NV	-30.00	-11.1365	-11.3940	-6.5088	-0.0065	-0.0066	-0.0037	2.50	PASS
		-20.00	-14.3337	-16.4580	-10.7431	-0.0084	-0.0095	-0.0061	2.50	PASS
		-10.00	-14.3337	-12.8317	-11.9877	-0.0084	-0.0074	-0.0068	2.50	PASS
		0.00	-10.1066	-16.6154	-10.2854	-0.0059	-0.0096	-0.0059	2.50	PASS
		10.00	-11.7660	-13.9189	-12.6171	-0.0069	-0.0080	-0.0072	2.50	PASS
		20.00	-15.7857	-14.9775	-9.4557	-0.0092	-0.0086	-0.0054	2.50	PASS
		30.00	-11.0364	-13.7544	-12.0521	-0.0064	-0.0079	-0.0069	2.50	PASS
		40.00	-11.5299	-13.6757	-6.8378	-0.0067	-0.0079	-0.0039	2.50	PASS
		50.00	-15.7213	-14.5626	-9.4414	-0.0092	-0.0084	-0.0054	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	-16.6154	-27.8735	-8.2970	-0.0201	-0.0333	-0.0098	2.50	PASS
		NV	-15.0776	-17.9458	-19.3691	-0.0182	-0.0215	-0.0229	2.50	PASS
		HV	-12.9318	-19.4120	-22.6092	-0.0156	-0.0232	-0.0267	2.50	PASS
HSDPA	NT	LV	-13.2036	-9.6202	-12.2952	-0.0160	-0.0115	-0.0145	2.50	PASS
		NV	-11.8017	-13.6399	-13.5255	-0.0143	-0.0163	-0.0160	2.50	PASS
		HV	-10.7002	-15.3422	-11.0006	-0.0129	-0.0183	-0.0130	2.50	PASS

RMC	NT	LV	-5.2142	-9.2483	-11.1580	-0.0063	-0.0111	-0.0132	2.50	PASS
		NV	-5.0712	-10.6502	-13.5469	-0.0061	-0.0127	-0.0160	2.50	PASS
		HV	-5.3358	-11.9448	-6.8164	-0.0065	-0.0143	-0.0081	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	-11.8446	-23.1171	-17.4451	-0.0143	-0.0276	-0.0206	2.50	PASS
		-20.00	-11.1294	-18.8398	-24.2472	-0.0135	-0.0225	-0.0286	2.50	PASS
		-10.00	-11.1222	-17.5095	1000.0000	-0.0135	-0.0209	-1.1812	2.50	PASS
		0.00	-12.0378	-17.4308	-9.0694	-0.0146	-0.0208	-0.0107	2.50	PASS
		10.00	-12.0521	-14.3981	-3.4118	-0.0146	-0.0172	-0.0040	2.50	PASS
		20.00	-11.6301	-13.2823	-38.3806	-0.0141	-0.0159	-0.0453	2.50	PASS
		30.00	-8.4615	-17.8313	-23.1671	-0.0102	-0.0213	-0.0274	2.50	PASS
		40.00	-7.8464	-11.0221	-16.6082	-0.0095	-0.0132	-0.0196	2.50	PASS
		50.00	-13.0677	-13.6042	-9.6989	-0.0158	-0.0163	-0.0115	2.50	PASS
HSDPA	NV	-30.00	-11.9877	-16.7298	-7.0953	-0.0145	-0.0200	-0.0084	2.50	PASS
		-20.00	-13.0606	-10.7002	-4.5991	-0.0158	-0.0128	-0.0054	2.50	PASS
		-10.00	-16.0503	-14.4982	-5.0998	-0.0194	-0.0173	-0.0060	2.50	PASS
		0.00	-15.4352	-15.5067	-4.8423	-0.0187	-0.0185	-0.0057	2.50	PASS
		10.00	-16.8371	-17.4093	-4.1699	-0.0204	-0.0208	-0.0049	2.50	PASS
		20.00	-13.6471	-10.7646	-4.3774	-0.0165	-0.0129	-0.0052	2.50	PASS
		30.00	-13.1750	-13.5612	-4.1842	-0.0159	-0.0162	-0.0049	2.50	PASS
		40.00	-12.2595	-12.5384	-3.9482	-0.0148	-0.0150	-0.0047	2.50	PASS
		50.00	-11.8303	-16.0074	-3.4547	-0.0143	-0.0191	-0.0041	2.50	PASS
RMC	NV	-30.00	-5.3716	-13.7401	-10.3354	-0.0065	-0.0164	-0.0122	2.50	PASS
		-20.00	-6.0868	-15.1491	-12.8031	-0.0074	-0.0181	-0.0151	2.50	PASS
		-10.00	-6.2585	-6.8593	-5.9366	-0.0076	-0.0082	-0.0070	2.50	PASS
		0.00	-6.4802	-8.1468	-8.5831	-0.0078	-0.0097	-0.0101	2.50	PASS
		10.00	-6.8378	-9.5201	-10.2353	-0.0083	-0.0114	-0.0121	2.50	PASS
		20.00	-7.8964	-11.1222	-10.5286	-0.0096	-0.0133	-0.0124	2.50	PASS
		30.00	-9.2697	-12.9676	-5.2285	-0.0112	-0.0155	-0.0062	2.50	PASS
		40.00	-9.4271	-14.3910	-7.8464	-0.0114	-0.0172	-0.0093	2.50	PASS
		50.00	-10.5071	-10.0565	-9.7919	-0.0127	-0.0120	-0.0116	2.50	PASS