

Frequency Stability

GSM850	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	Temperature	Voltage	GMSK	GMSK	
	Extreme (50℃)		8.52	0.01018	PASS
	Extreme (40℃)		10.74	0.01284	PASS
	Extreme (30℃)		10.35	0.01237	PASS
	Extreme (20℃)		8.00	0.00956	PASS
	Extreme (10℃)		17.45	0.02086	PASS
	Extreme (0℃)		3.22	0.00385	PASS
	Extreme (-10℃)		7.21	0.00861	PASS
	Extreme (-20℃)		17.34	0.02073	PASS
	Extreme (-30℃)		15.22	0.01820	PASS
	20℃	LV	16.53	0.01976	PASS
		HV	16.39	0.01959	PASS

GSM1900 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1850.2	BANDWIDTH	0.2MHz	GSMK	GSMK	Limit (MHz)	Verdict
	Temperature	Voltage				
	Extreme (50℃)	NV	1850.064	1850.336	1850-1910	PASS
	Extreme (40℃)		1850.066	1850.334	1850-1910	PASS
	Extreme (30℃)		1850.062	1850.338	1850-1910	PASS
	Extreme (20℃)		1850.076	1850.324	1850-1910	PASS
	Extreme (10℃)		1850.064	1850.336	1850-1910	PASS
	Extreme (0℃)		1850.063	1850.337	1850-1910	PASS
	Extreme (-10℃)		1850.064	1850.336	1850-1910	PASS
	Extreme (-20℃)		1850.064	1850.336	1850-1910	PASS
	Extreme (-30℃)		1850.063	1850.337	1850-1910	PASS
	20℃	LV	1850.080	1850.320	1850-1910	PASS
		HV	1850.070	1850.330	1850-1910	PASS
GSM1900 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1909.8	BANDWIDTH	0.2MHz	GSMK	GSMK	Limit (MHz)	Verdict
	Temperature	Voltage				
	Extreme (50℃)	NV	1909.673	1909.927	1850-1910	PASS
	Extreme (40℃)		1909.662	1909.938	1850-1910	PASS
	Extreme (30℃)		1909.666	1909.934	1850-1910	PASS
	Extreme (20℃)		1909.679	1909.921	1850-1910	PASS

	Extreme (10℃)		1909.669	1909.931	1850-1910	PASS
	Extreme (0℃)		1909.663	1909.937	1850-1910	PASS
	Extreme (-10℃)		1909.669	1909.931	1850-1910	PASS
	Extreme (-20℃)		1909.674	1909.926	1850-1910	PASS
	Extreme (-30℃)		1909.660	1909.940	1850-1910	PASS
	20℃	LV	1909.676	1909.924	1850-1910	PASS
		HV	1909.675	1909.925	1850-1910	PASS

WCDMA B5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50℃)		17.00	0.02032	PASS
	Extreme (40℃)		12.26	0.01465	PASS
	Extreme (30℃)		2.55	0.00305	PASS
	Extreme (20℃)		10.52	0.01258	PASS
	Extreme (10℃)		9.07	0.01084	PASS
	Extreme (0℃)		14.77	0.01765	PASS
	Extreme (-10℃)		16.41	0.01962	PASS
	Extreme (-20℃)		9.00	0.01076	PASS
	Extreme (-30℃)		15.61	0.01866	PASS
	20℃	LV	11.48	0.01372	PASS
		HV	15.02	0.01796	PASS

LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1850.7	BANDWIDTH	1.4MHz				
	Temperature	Voltage				
	Extreme (50℃)	NV	1850.147	1851.253	1850-1910	PASS
	Extreme (40℃)		1850.148	1851.252	1850-1910	PASS
	Extreme (30℃)		1850.149	1851.251	1850-1910	PASS
	Extreme (20℃)		1850.149	1851.251	1850-1910	PASS
	Extreme (10℃)		1850.149	1851.251	1850-1910	PASS
	Extreme (0℃)		1850.149	1851.251	1850-1910	PASS
	Extreme (-10℃)		1850.150	1851.250	1850-1910	PASS
	Extreme (-20℃)		1850.146	1851.254	1850-1910	PASS
	Extreme (-30℃)		1850.146	1851.254	1850-1910	PASS
	20℃	LV	1850.146	1851.254	1850-1910	PASS
		HV	1850.147	1851.253	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict

1851.5	BANDWIDTH	3MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	1850.146	1852.854	1850-1910	PASS
	Extreme (40℃)		1850.149	1852.851	1850-1910	PASS
	Extreme (30℃)		1850.150	1852.850	1850-1910	PASS
	Extreme (20℃)		1850.147	1852.853	1850-1910	PASS
	Extreme (10℃)		1850.147	1852.853	1850-1910	PASS
	Extreme (0℃)		1850.150	1852.850	1850-1910	PASS
	Extreme (-10℃)		1850.149	1852.851	1850-1910	PASS
	Extreme (-20℃)		1850.149	1852.851	1850-1910	PASS
	Extreme (-30℃)		1850.149	1852.851	1850-1910	PASS
	20℃	LV	1850.147	1852.853	1850-1910	PASS
		HV	1850.146	1852.854	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1852.5	BANDWIDTH	5MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	1850.243	1854.757	1850-1910	PASS
	Extreme (40℃)		1850.280	1854.720	1850-1910	PASS
	Extreme (30℃)		1850.210	1854.790	1850-1910	PASS
	Extreme (20℃)		1850.228	1854.772	1850-1910	PASS
	Extreme (10℃)		1850.239	1854.761	1850-1910	PASS
	Extreme (0℃)		1850.207	1854.793	1850-1910	PASS
	Extreme (-10℃)		1850.252	1854.748	1850-1910	PASS
	Extreme (-20℃)		1850.251	1854.749	1850-1910	PASS
	Extreme (-30℃)		1850.212	1854.788	1850-1910	PASS
	20℃	LV	1850.275	1854.725	1850-1910	PASS
		HV	1850.273	1854.727	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1855	BANDWIDTH	10MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	1850.637	1859.363	1850-1910	PASS
	Extreme (40℃)		1850.574	1859.426	1850-1910	PASS
	Extreme (30℃)		1850.554	1859.446	1850-1910	PASS
	Extreme (20℃)		1850.578	1859.422	1850-1910	PASS
	Extreme (10℃)		1850.574	1859.426	1850-1910	PASS
	Extreme (0℃)		1850.568	1859.432	1850-1910	PASS
	Extreme (-10℃)		1850.565	1859.435	1850-1910	PASS
	Extreme (-20℃)		1850.509	1859.491	1850-1910	PASS
	Extreme (-30℃)		1850.514	1859.486	1850-1910	PASS

	20℃	LV	1850.515	1859.485	1850-1910	PASS
		HV	1850.607	1859.393	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1857.5	BANDWIDTH	15MHz	QPSK	QPSK		
	Temperature	Voltage				
	Extreme (50℃)	NV	1850.741	1864.259	1850-1910	PASS
	Extreme (40℃)		1850.759	1864.241	1850-1910	PASS
	Extreme (30℃)		1850.726	1864.274	1850-1910	PASS
	Extreme (20℃)		1850.750	1864.250	1850-1910	PASS
	Extreme (10℃)		1850.728	1864.272	1850-1910	PASS
	Extreme (0℃)		1850.709	1864.291	1850-1910	PASS
	Extreme (-10℃)		1850.782	1864.218	1850-1910	PASS
	Extreme (-20℃)		1850.724	1864.276	1850-1910	PASS
	Extreme (-30℃)		1850.707	1864.293	1850-1910	PASS
	20℃	LV	1850.770	1864.230	1850-1910	PASS
		HV	1850.717	1864.283	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1860	BANDWIDTH	20MHz	QPSK	QPSK		
	Temperature	Voltage				
	Extreme (50℃)	NV	1851.045	1868.955	1850-1910	PASS
	Extreme (40℃)		1851.033	1868.967	1850-1910	PASS
	Extreme (30℃)		1851.036	1868.964	1850-1910	PASS
	Extreme (20℃)		1851.018	1868.982	1850-1910	PASS
	Extreme (10℃)		1851.047	1868.953	1850-1910	PASS
	Extreme (0℃)		1851.028	1868.972	1850-1910	PASS
	Extreme (-10℃)		1851.004	1868.996	1850-1910	PASS
	Extreme (-20℃)		1851.003	1868.997	1850-1910	PASS
	Extreme (-30℃)		1851.011	1868.989	1850-1910	PASS
	20℃	LV	1851.008	1868.992	1850-1910	PASS
		HV	1851.043	1868.957	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1909.3	BANDWIDTH	1.4MHz	QPSK	QPSK		
	Temperature	Voltage				
	Extreme (50℃)	NV	1908.750	1909.850	1850-1910	PASS
	Extreme (40℃)		1908.748	1909.852	1850-1910	PASS

	Extreme (30℃)		1908.747	1909.853	1850-1910	PASS
	Extreme (20℃)		1908.746	1909.854	1850-1910	PASS
	Extreme (10℃)		1908.748	1909.852	1850-1910	PASS
	Extreme (0℃)		1908.746	1909.854	1850-1910	PASS
	Extreme (-10℃)		1908.745	1909.855	1850-1910	PASS
	Extreme (-20℃)		1908.748	1909.852	1850-1910	PASS
	Extreme (-30℃)		1908.748	1909.852	1850-1910	PASS
	20℃	LV	1908.746	1909.854	1850-1910	PASS
		HV	1908.747	1909.853	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1908.5	BANDWIDTH	3MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	1907.149	1909.851	1850-1910	PASS
	Extreme (40℃)		1907.150	1909.850	1850-1910	PASS
	Extreme (30℃)		1907.145	1909.855	1850-1910	PASS
	Extreme (20℃)		1907.145	1909.855	1850-1910	PASS
	Extreme (10℃)		1907.147	1909.853	1850-1910	PASS
	Extreme (0℃)		1907.145	1909.855	1850-1910	PASS
	Extreme (-10℃)		1907.149	1909.851	1850-1910	PASS
	Extreme (-20℃)		1907.147	1909.853	1850-1910	PASS
	Extreme (-30℃)		1907.145	1909.855	1850-1910	PASS
	20℃	LV	1907.147	1909.853	1850-1910	PASS
		HV	1907.146	1909.854	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1907.5	BANDWIDTH	5MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	1905.212	1909.788	1850-1910	PASS
	Extreme (40℃)		1905.286	1909.714	1850-1910	PASS
	Extreme (30℃)		1905.242	1909.758	1850-1910	PASS
	Extreme (20℃)		1905.220	1909.780	1850-1910	PASS
	Extreme (10℃)		1905.292	1909.708	1850-1910	PASS
	Extreme (0℃)		1905.207	1909.793	1850-1910	PASS
	Extreme (-10℃)		1905.278	1909.722	1850-1910	PASS
	Extreme (-20℃)		1905.278	1909.722	1850-1910	PASS
	Extreme (-30℃)		1905.277	1909.723	1850-1910	PASS
	20℃	LV	1905.264	1909.736	1850-1910	PASS
		HV	1905.247	1909.753	1850-1910	PASS
LTE B2	Condition		F Low	F High	Limit (MHz)	Verdict

Fc(MHz)			(MHz)	(MHz)		
1905	BANDWIDTH	10MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	1900.539	1909.461	1850-1910	PASS
	Extreme (40℃)		1900.625	1909.375	1850-1910	PASS
	Extreme (30℃)		1900.649	1909.351	1850-1910	PASS
	Extreme (20℃)		1900.636	1909.364	1850-1910	PASS
	Extreme (10℃)		1900.515	1909.485	1850-1910	PASS
	Extreme (0℃)		1900.638	1909.362	1850-1910	PASS
	Extreme (-10℃)		1900.578	1909.422	1850-1910	PASS
	Extreme (-20℃)		1900.561	1909.439	1850-1910	PASS
	Extreme (-30℃)		1900.557	1909.443	1850-1910	PASS
	20℃	LV	1900.556	1909.444	1850-1910	PASS
		HV	1900.576	1909.424	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1902.5	BANDWIDTH	15MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	1895.742	1909.258	1850-1910	PASS
	Extreme (40℃)		1895.793	1909.207	1850-1910	PASS
	Extreme (30℃)		1895.784	1909.216	1850-1910	PASS
	Extreme (20℃)		1895.774	1909.226	1850-1910	PASS
	Extreme (10℃)		1895.745	1909.255	1850-1910	PASS
	Extreme (0℃)		1895.754	1909.246	1850-1910	PASS
	Extreme (-10℃)		1895.737	1909.263	1850-1910	PASS
	Extreme (-20℃)		1895.706	1909.294	1850-1910	PASS
	Extreme (-30℃)		1895.741	1909.259	1850-1910	PASS
	20℃	LV	1895.765	1909.235	1850-1910	PASS
		HV	1895.771	1909.229	1850-1910	PASS
LTE B2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1900	BANDWIDTH	20MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	1890.905	1909.095	1850-1910	PASS
	Extreme (40℃)		1890.916	1909.084	1850-1910	PASS
	Extreme (30℃)		1890.988	1909.012	1850-1910	PASS
	Extreme (20℃)		1890.905	1909.095	1850-1910	PASS
	Extreme (10℃)		1890.914	1909.086	1850-1910	PASS

	Extreme (0℃)		1890.907	1909.093	1850-1910	PASS
	Extreme (-10℃)		1890.945	1909.055	1850-1910	PASS
	Extreme (-20℃)		1890.984	1909.016	1850-1910	PASS
	Extreme (-30℃)		1890.909	1909.091	1850-1910	PASS
	20℃	LV	1890.997	1909.003	1850-1910	PASS
		HV	1890.998	1909.002	1850-1910	PASS

LTE Band 5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	1.4MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50℃)	NV	16.69	0.01995	PASS
	Extreme (40℃)		3.75	0.00448	PASS
	Extreme (30℃)		10.35	0.01237	PASS
	Extreme (20℃)		8.43	0.01008	PASS
	Extreme (10℃)		3.59	0.00429	PASS
	Extreme (0℃)		11.91	0.01424	PASS
	Extreme (-10℃)		2.64	0.00315	PASS
	Extreme (-20℃)		9.75	0.01165	PASS
	Extreme (-30℃)		4.33	0.00517	PASS
	20℃	LV	11.64	0.01392	PASS
		HV	4.64	0.00555	PASS
LTE Band 5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	3MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50℃)	NV	1.91	0.00229	PASS
	Extreme (40℃)		6.81	0.00814	PASS
	Extreme (30℃)		15.68	0.01875	PASS
	Extreme (20℃)		8.29	0.00991	PASS
	Extreme (10℃)		16.64	0.01989	PASS
	Extreme (0℃)		13.96	0.01669	PASS
	Extreme (-10℃)		2.39	0.00286	PASS
	Extreme (-20℃)		1.40	0.00167	PASS
	Extreme (-30℃)		5.95	0.00711	PASS
	20℃	LV	13.40	0.01601	PASS
		HV	6.34	0.00758	PASS
LTE Band 5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz			
	Temperature	Voltage	QPSK	QPSK	

	Extreme (50℃)	NV	6.34	0.00758	PASS
	Extreme (40℃)		16.74	0.02001	PASS
	Extreme (30℃)		13.00	0.01554	PASS
	Extreme (20℃)		9.77	0.01167	PASS
	Extreme (10℃)		12.88	0.01539	PASS
	Extreme (0℃)		4.76	0.00570	PASS
	Extreme (-10℃)		8.43	0.01007	PASS
	Extreme (-20℃)		10.15	0.01213	PASS
	Extreme (-30℃)		11.51	0.01376	PASS
	20℃	LV	17.75	0.02122	PASS
		HV	6.95	0.00831	PASS
LTE Band 5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50℃)	NV	17.95	0.02146	PASS
	Extreme (40℃)		16.86	0.02015	PASS
	Extreme (30℃)		8.54	0.01021	PASS
	Extreme (20℃)		7.07	0.00845	PASS
	Extreme (10℃)		9.29	0.01110	PASS
	Extreme (0℃)		2.05	0.00244	PASS
	Extreme (-10℃)		14.29	0.01708	PASS
	Extreme (-20℃)		9.17	0.01097	PASS
	Extreme (-30℃)		17.72	0.02118	PASS
	20℃	LV	3.57	0.00426	PASS
		HV	16.78	0.02006	PASS

LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
	BANDWIDTH	5MHz				
2502.5	Temperature	Voltage	QPSK		2500-2570	PASS
	Extreme (50℃)	NV	2500.280	2504.720		
	Extreme (40℃)		2500.217	2504.783		
	Extreme (30℃)		2500.271	2504.729		
	Extreme (20℃)		2500.291	2504.709		
	Extreme (10℃)		2500.286	2504.714		
	Extreme (0℃)		2500.289	2504.711		
	Extreme (-10℃)		2500.265	2504.735		
	Extreme (-20℃)		2500.270	2504.730		
	Extreme (-30℃)		2500.282	2504.718		
	20℃		LV	2500.233	2504.767	2500-2570
		HV	2500.243	2504.757	2500-2570	PASS

LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2505	BANDWIDTH	10MHz	QPSK	QPSK	2500-2570	PASS
	Temperature	Voltage				
	Extreme (50℃)	NV	2500.560	2509.440	2500-2570	PASS
	Extreme (40℃)		2500.639	2509.361	2500-2570	PASS
	Extreme (30℃)		2500.640	2509.360	2500-2570	PASS
	Extreme (20℃)		2500.607	2509.393	2500-2570	PASS
	Extreme (10℃)		2500.616	2509.384	2500-2570	PASS
	Extreme (0℃)		2500.590	2509.410	2500-2570	PASS
	Extreme (-10℃)		2500.536	2509.464	2500-2570	PASS
	Extreme (-20℃)		2500.577	2509.423	2500-2570	PASS
	Extreme (-30℃)		2500.595	2509.405	2500-2570	PASS
	20℃	LV	2500.505	2509.495	2500-2570	PASS
		HV	2500.582	2509.418	2500-2570	PASS
LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2507.5	BANDWIDTH	15MHz	QPSK	QPSK	2500-2570	PASS
	Temperature	Voltage				
	Extreme (50℃)	NV	2500.731	2514.269	2500-2570	PASS
	Extreme (40℃)		2500.757	2514.243	2500-2570	PASS
	Extreme (30℃)		2500.757	2514.243	2500-2570	PASS
	Extreme (20℃)		2500.753	2514.247	2500-2570	PASS
	Extreme (10℃)		2500.757	2514.243	2500-2570	PASS
	Extreme (0℃)		2500.716	2514.284	2500-2570	PASS
	Extreme (-10℃)		2500.783	2514.217	2500-2570	PASS
	Extreme (-20℃)		2500.715	2514.285	2500-2570	PASS
	Extreme (-30℃)		2500.764	2514.236	2500-2570	PASS
	20℃	LV	2500.786	2514.214	2500-2570	PASS
		HV	2500.727	2514.273	2500-2570	PASS
LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2510	BANDWIDTH	20MHz	QPSK	QPSK	2500-2570	PASS
	Temperature	Voltage				
	Extreme (50℃)	NV	2501.016	2518.984	2500-2570	PASS
	Extreme (40℃)		2501.037	2518.963	2500-2570	PASS
	Extreme (30℃)		2501.016	2518.984	2500-2570	PASS
	Extreme (20℃)		2501.043	2518.957	2500-2570	PASS
	Extreme (10℃)		2501.043	2518.957	2500-2570	PASS
	Extreme (0℃)		2501.005	2518.995	2500-2570	PASS
	Extreme (-10℃)		2501.023	2518.977	2500-2570	PASS

	Extreme (-20℃)		2501.050	2518.950	2500-2570	PASS
	Extreme (-30℃)		2501.044	2518.956	2500-2570	PASS
	20℃	LV	2501.024	2518.976	2500-2570	PASS
		HV	2501.015	2518.985	2500-2570	PASS
LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2567.5	BANDWIDTH	5MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2565.286	2569.714	2500-2570	PASS
	Extreme (40℃)		2565.231	2569.769	2500-2570	PASS
	Extreme (30℃)		2565.244	2569.756	2500-2570	PASS
	Extreme (20℃)		2565.255	2569.745	2500-2570	PASS
	Extreme (10℃)		2565.300	2569.700	2500-2570	PASS
	Extreme (0℃)		2565.290	2569.710	2500-2570	PASS
	Extreme (-10℃)		2565.204	2569.796	2500-2570	PASS
	Extreme (-20℃)		2565.206	2569.794	2500-2570	PASS
	Extreme (-30℃)		2565.270	2569.730	2500-2570	PASS
	20℃	LV	2565.278	2569.722	2500-2570	PASS
		HV	2565.234	2569.766	2500-2570	PASS
LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2565	BANDWIDTH	10MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2560.502	2569.498	2500-2570	PASS
	Extreme (40℃)		2560.635	2569.365	2500-2570	PASS
	Extreme (30℃)		2560.561	2569.439	2500-2570	PASS
	Extreme (20℃)		2560.628	2569.372	2500-2570	PASS
	Extreme (10℃)		2560.577	2569.423	2500-2570	PASS
	Extreme (0℃)		2560.618	2569.382	2500-2570	PASS
	Extreme (-10℃)		2560.550	2569.450	2500-2570	PASS
	Extreme (-20℃)		2560.599	2569.401	2500-2570	PASS
	Extreme (-30℃)		2560.561	2569.439	2500-2570	PASS
	20℃	LV	2560.563	2569.437	2500-2570	PASS
		HV	2560.647	2569.353	2500-2570	PASS
LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2562.5	BANDWIDTH	15MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2555.731	2569.269	2500-2570	PASS
	Extreme (40℃)		2555.775	2569.225	2500-2570	PASS
	Extreme (30℃)		2555.770	2569.230	2500-2570	PASS

	Extreme (20℃)		2555.767	2569.233	2500-2570	PASS
	Extreme (10℃)		2555.723	2569.277	2500-2570	PASS
	Extreme (0℃)		2555.750	2569.250	2500-2570	PASS
	Extreme (-10℃)		2555.771	2569.229	2500-2570	PASS
	Extreme (-20℃)		2555.708	2569.292	2500-2570	PASS
	Extreme (-30℃)		2555.761	2569.239	2500-2570	PASS
	20℃	LV	2555.717	2569.283	2500-2570	PASS
		HV	2555.728	2569.272	2500-2570	PASS
LTE B7 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2560	BANDWIDTH	20MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2550.965	2569.035	2500-2570	PASS
	Extreme (40℃)		2550.904	2569.096	2500-2570	PASS
	Extreme (30℃)		2550.937	2569.063	2500-2570	PASS
	Extreme (20℃)		2550.930	2569.070	2500-2570	PASS
	Extreme (10℃)		2550.955	2569.045	2500-2570	PASS
	Extreme (0℃)		2550.957	2569.043	2500-2570	PASS
	Extreme (-10℃)		2550.975	2569.025	2500-2570	PASS
	Extreme (-20℃)		2550.958	2569.042	2500-2570	PASS
	Extreme (-30℃)		2550.970	2569.030	2500-2570	PASS
	20℃	LV	2550.983	2569.017	2500-2570	PASS
		HV	2550.962	2569.038	2500-2570	PASS

LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2572.5	BANDWIDTH	5MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2570.284	2574.716	2570-2620	PASS
	Extreme (40℃)		2570.276	2574.724	2570-2620	PASS
	Extreme (30℃)		2570.273	2574.727	2570-2620	PASS
	Extreme (20℃)		2570.294	2574.706	2570-2620	PASS
	Extreme (10℃)		2570.236	2574.764	2570-2620	PASS
	Extreme (0℃)		2570.248	2574.752	2570-2620	PASS
	Extreme (-10℃)		2570.249	2574.751	2570-2620	PASS
	Extreme (-20℃)		2570.222	2574.778	2570-2620	PASS
	Extreme (-30℃)		2570.241	2574.759	2570-2620	PASS
	20℃	LV	2570.207	2574.793	2570-2620	PASS
		HV	2570.285	2574.715	2570-2620	PASS
LTE B38	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict

Fc(MHz)						
2575	BANDWIDTH	10MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2570.506	2579.494	2570-2620	PASS
	Extreme (40℃)		2570.588	2579.412	2570-2620	PASS
	Extreme (30℃)		2570.578	2579.422	2570-2620	PASS
	Extreme (20℃)		2570.628	2579.372	2570-2620	PASS
	Extreme (10℃)		2570.613	2579.387	2570-2620	PASS
	Extreme (0℃)		2570.583	2579.417	2570-2620	PASS
	Extreme (-10℃)		2570.575	2579.425	2570-2620	PASS
	Extreme (-20℃)		2570.631	2579.369	2570-2620	PASS
	Extreme (-30℃)		2570.523	2579.477	2570-2620	PASS
	20℃	LV	2570.567	2579.433	2570-2620	PASS
		HV	2570.560	2579.440	2570-2620	PASS
LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2577.5	BANDWIDTH	15MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2570.760	2584.240	2570-2620	PASS
	Extreme (40℃)		2570.722	2584.278	2570-2620	PASS
	Extreme (30℃)		2570.737	2584.263	2570-2620	PASS
	Extreme (20℃)		2570.756	2584.244	2570-2620	PASS
	Extreme (10℃)		2570.720	2584.280	2570-2620	PASS
	Extreme (0℃)		2570.738	2584.262	2570-2620	PASS
	Extreme (-10℃)		2570.771	2584.229	2570-2620	PASS
	Extreme (-20℃)		2570.770	2584.230	2570-2620	PASS
	Extreme (-30℃)		2570.766	2584.234	2570-2620	PASS
	20℃	LV	2570.732	2584.268	2570-2620	PASS
		HV	2570.704	2584.296	2570-2620	PASS
LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2580	BANDWIDTH	20MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2571.019	2588.981	2570-2620	PASS
	Extreme (40℃)		2571.043	2588.957	2570-2620	PASS
	Extreme (30℃)		2571.012	2588.988	2570-2620	PASS
	Extreme (20℃)		2571.024	2588.976	2570-2620	PASS
	Extreme (10℃)		2571.025	2588.975	2570-2620	PASS
	Extreme (0℃)		2571.032	2588.968	2570-2620	PASS

	Extreme (-10℃)		2571.035	2588.965	2570-2620	PASS
	Extreme (-20℃)		2571.048	2588.952	2570-2620	PASS
	Extreme (-30℃)		2571.002	2588.998	2570-2620	PASS
	20℃	LV	2571.037	2588.963	2570-2620	PASS
		HV	2571.022	2588.978	2570-2620	PASS
LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2617.5	BANDWIDTH	5MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2615.272	2619.728	2570-2620	PASS
	Extreme (40℃)		2615.242	2619.758	2570-2620	PASS
	Extreme (30℃)		2615.263	2619.737	2570-2620	PASS
	Extreme (20℃)		2615.275	2619.725	2570-2620	PASS
	Extreme (10℃)		2615.241	2619.759	2570-2620	PASS
	Extreme (0℃)		2615.236	2619.764	2570-2620	PASS
	Extreme (-10℃)		2615.270	2619.730	2570-2620	PASS
	Extreme (-20℃)		2615.264	2619.736	2570-2620	PASS
	Extreme (-30℃)		2615.215	2619.785	2570-2620	PASS
	20℃	LV	2615.236	2619.764	2570-2620	PASS
		HV	2615.242	2619.758	2570-2620	PASS
LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2615	BANDWIDTH	10MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2610.571	2619.429	2570-2620	PASS
	Extreme (40℃)		2610.527	2619.473	2570-2620	PASS
	Extreme (30℃)		2610.527	2619.473	2570-2620	PASS
	Extreme (20℃)		2610.613	2619.387	2570-2620	PASS
	Extreme (10℃)		2610.556	2619.444	2570-2620	PASS
	Extreme (0℃)		2610.533	2619.467	2570-2620	PASS
	Extreme (-10℃)		2610.648	2619.352	2570-2620	PASS
	Extreme (-20℃)		2610.531	2619.469	2570-2620	PASS
	Extreme (-30℃)		2610.621	2619.379	2570-2620	PASS
	20℃	LV	2610.508	2619.492	2570-2620	PASS
		HV	2610.510	2619.490	2570-2620	PASS
LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2612.5	BANDWIDTH	15MHz				

RF Test Report			Report Ref: E1-A2004-100-12-02-R1			
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2605.771	2619.229	2570-2620	PASS
	Extreme (40℃)		2605.751	2619.249	2570-2620	PASS
	Extreme (30℃)		2605.733	2619.267	2570-2620	PASS
	Extreme (20℃)		2605.777	2619.223	2570-2620	PASS
	Extreme (10℃)		2605.740	2619.260	2570-2620	PASS
	Extreme (0℃)		2605.713	2619.287	2570-2620	PASS
	Extreme (-10℃)		2605.776	2619.224	2570-2620	PASS
	Extreme (-20℃)		2605.733	2619.267	2570-2620	PASS
	Extreme (-30℃)		2605.705	2619.295	2570-2620	PASS
	20℃	LV	2605.771	2619.229	2570-2620	PASS
		HV	2605.793	2619.207	2570-2620	PASS
LTE B38 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2610	BANDWIDTH	20MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2600.927	2619.073	2570-2620	PASS
	Extreme (40℃)		2600.911	2619.089	2570-2620	PASS
	Extreme (30℃)		2600.931	2619.069	2570-2620	PASS
	Extreme (20℃)		2600.986	2619.014	2570-2620	PASS
	Extreme (10℃)		2600.946	2619.054	2570-2620	PASS
	Extreme (0℃)		2600.919	2619.081	2570-2620	PASS
	Extreme (-10℃)		2600.906	2619.094	2570-2620	PASS
	Extreme (-20℃)		2600.993	2619.007	2570-2620	PASS
	Extreme (-30℃)		2600.984	2619.016	2570-2620	PASS
	20℃	LV	2600.930	2619.070	2570-2620	PASS
HV		2600.917	2619.083	2570-2620	PASS	

LTE B41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2498.5	BANDWIDTH	5MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2496.226	2500.774	2496-2690	PASS
	Extreme (40℃)		2496.209	2500.791	2496-2690	PASS
	Extreme (30℃)		2496.236	2500.764	2496-2690	PASS
	Extreme (20℃)		2496.237	2500.763	2496-2690	PASS
	Extreme (10℃)		2496.287	2500.713	2496-2690	PASS
	Extreme (0℃)		2496.220	2500.780	2496-2690	PASS
	Extreme (-10℃)		2496.280	2500.720	2496-2690	PASS
	Extreme (-20℃)		2496.228	2500.772	2496-2690	PASS

	Extreme (-30℃)		2496.220	2500.780	2496-2690	PASS
	20℃	LV	2496.222	2500.778	2496-2690	PASS
		HV	2496.277	2500.723	2496-2690	PASS
LTE B41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2501	BANDWIDTH	10MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2496.509	2505.491	2496-2690	PASS
	Extreme (40℃)		2496.608	2505.392	2496-2690	PASS
	Extreme (30℃)		2496.572	2505.428	2496-2690	PASS
	Extreme (20℃)		2496.602	2505.398	2496-2690	PASS
	Extreme (10℃)		2496.513	2505.487	2496-2690	PASS
	Extreme (0℃)		2496.521	2505.479	2496-2690	PASS
	Extreme (-10℃)		2496.532	2505.468	2496-2690	PASS
	Extreme (-20℃)		2496.560	2505.440	2496-2690	PASS
	Extreme (-30℃)		2496.580	2505.420	2496-2690	PASS
	20℃	LV	2496.580	2505.420	2496-2690	PASS
		HV	2496.516	2505.484	2496-2690	PASS
LTE B41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2503.5	BANDWIDTH	15MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2496.780	2510.220	2496-2690	PASS
	Extreme (40℃)		2496.712	2510.288	2496-2690	PASS
	Extreme (30℃)		2496.720	2510.280	2496-2690	PASS
	Extreme (20℃)		2496.704	2510.296	2496-2690	PASS
	Extreme (10℃)		2496.734	2510.266	2496-2690	PASS
	Extreme (0℃)		2496.784	2510.216	2496-2690	PASS
	Extreme (-10℃)		2496.799	2510.201	2496-2690	PASS
	Extreme (-20℃)		2496.770	2510.230	2496-2690	PASS
	Extreme (-30℃)		2496.711	2510.289	2496-2690	PASS
	20℃	LV	2496.767	2510.233	2496-2690	PASS
		HV	2496.788	2510.212	2496-2690	PASS
LTE B41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2506	BANDWIDTH	20MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2497.026	2514.974	2496-2690	PASS

	Extreme (40℃)		2497.005	2514.995	2496-2690	PASS
	Extreme (30℃)		2497.024	2514.976	2496-2690	PASS
	Extreme (20℃)		2497.010	2514.990	2496-2690	PASS
	Extreme (10℃)		2497.009	2514.991	2496-2690	PASS
	Extreme (0℃)		2497.003	2514.997	2496-2690	PASS
	Extreme (-10℃)		2497.031	2514.969	2496-2690	PASS
	Extreme (-20℃)		2497.030	2514.970	2496-2690	PASS
	Extreme (-30℃)		2497.049	2514.951	2496-2690	PASS
	20℃	LV	2497.015	2514.985	2496-2690	PASS
		HV	2497.014	2514.986	2496-2690	PASS
LTE B41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2687.5	BANDWIDTH	5MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2685.254	2689.746	2496-2690	PASS
	Extreme (40℃)		2685.214	2689.786	2496-2690	PASS
	Extreme (30℃)		2685.267	2689.733	2496-2690	PASS
	Extreme (20℃)		2685.235	2689.765	2496-2690	PASS
	Extreme (10℃)		2685.244	2689.756	2496-2690	PASS
	Extreme (0℃)		2685.260	2689.740	2496-2690	PASS
	Extreme (-10℃)		2685.277	2689.723	2496-2690	PASS
	Extreme (-20℃)		2685.298	2689.702	2496-2690	PASS
	Extreme (-30℃)		2685.299	2689.701	2496-2690	PASS
	20℃	LV	2685.264	2689.736	2496-2690	PASS
		HV	2685.248	2689.752	2496-2690	PASS
LTE B41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2685	BANDWIDTH	10MHz	QPSK			
	Temperature	Voltage				
	Extreme (50℃)	NV	2680.601	2689.399	2496-2690	PASS
	Extreme (40℃)		2680.614	2689.386	2496-2690	PASS
	Extreme (30℃)		2680.644	2689.356	2496-2690	PASS
	Extreme (20℃)		2680.567	2689.433	2496-2690	PASS
	Extreme (10℃)		2680.528	2689.472	2496-2690	PASS
	Extreme (0℃)		2680.554	2689.446	2496-2690	PASS
	Extreme (-10℃)		2680.536	2689.464	2496-2690	PASS
	Extreme (-20℃)		2680.618	2689.382	2496-2690	PASS
	Extreme (-30℃)		2680.528	2689.472	2496-2690	PASS
	20℃	LV	2680.504	2689.496	2496-2690	PASS
		HV	2680.634	2689.366	2496-2690	PASS

LTE B41 Fc(MHz)			F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
Condition						
2682.5	BANDWIDTH	15MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2675.775	2689.225	2496-2690	PASS
	Extreme (40℃)		2675.752	2689.248	2496-2690	PASS
	Extreme (30℃)		2675.789	2689.211	2496-2690	PASS
	Extreme (20℃)		2675.781	2689.219	2496-2690	PASS
	Extreme (10℃)		2675.726	2689.274	2496-2690	PASS
	Extreme (0℃)		2675.752	2689.248	2496-2690	PASS
	Extreme (-10℃)		2675.703	2689.297	2496-2690	PASS
	Extreme (-20℃)		2675.771	2689.229	2496-2690	PASS
	Extreme (-30℃)		2675.754	2689.246	2496-2690	PASS
	20℃	LV	2675.778	2689.222	2496-2690	PASS
HV		2675.740	2689.260	2496-2690	PASS	
LTE B41 Fc(MHz)			F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
Condition						
2680	BANDWIDTH	20MHz				
	Temperature	Voltage	QPSK			
	Extreme (50℃)	NV	2670.934	2689.066	2496-2690	PASS
	Extreme (40℃)		2670.942	2689.058	2496-2690	PASS
	Extreme (30℃)		2670.985	2689.015	2496-2690	PASS
	Extreme (20℃)		2670.986	2689.014	2496-2690	PASS
	Extreme (10℃)		2670.904	2689.096	2496-2690	PASS
	Extreme (0℃)		2670.947	2689.053	2496-2690	PASS
	Extreme (-10℃)		2670.955	2689.045	2496-2690	PASS
	Extreme (-20℃)		2670.956	2689.044	2496-2690	PASS
	Extreme (-30℃)		2670.927	2689.073	2496-2690	PASS
	20℃	LV	2670.929	2689.071	2496-2690	PASS
HV		2670.963	2689.037	2496-2690	PASS	