



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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## 7.1.4.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
77.150	-68.44	-13.00	-55.44	Vertical
118.650	-70.58	-13.00	-57.58	Vertical
334.500	-78.30	-13.00	-65.30	Vertical
487.500	-75.58	-13.00	-62.58	Vertical
784.167	-56.39	-13.00	-43.39	Vertical
1202.540	-50.62	-13.00	-37.62	Vertical
2461.520	-27.91	-13.00	-14.91	Vertical
3555.000	-52.45	-13.00	-39.45	Vertical
4873.125	-49.79	-13.00	-36.79	Vertical
6080.000	-48.64	-13.00	-35.64	Vertical
7961.000	-47.68	-13.00	-34.68	Vertical
9286.000	-47.49	-13.00	-34.49	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
61.950	-70.77	-13.00	-57.77	Horizontal
135.350	-71.27	-13.00	-58.27	Horizontal
222.050	-78.58	-13.00	-65.58	Horizontal
462.450	-76.35	-13.00	-63.35	Horizontal
878.333	-53.64	-13.00	-40.64	Horizontal
1236.160	-51.43	-13.00	-38.43	Horizontal
2471.060	-31.77	-13.00	-18.77	Horizontal
3549.000	-52.40	-13.00	-39.40	Horizontal
4344.375	-50.13	-13.00	-37.13	Horizontal
5987.250	-48.81	-13.00	-35.81	Horizontal
7972.000	-47.43	-13.00	-34.43	Horizontal
9194.000	-47.26	-13.00	-34.26	Horizontal

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## 7.1.4.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
68.650	-64.51	-13.00	-51.51	Vertical
155.850	-71.77	-13.00	-58.77	Vertical
220.850	-79.46	-13.00	-66.46	Vertical
342.900	-77.55	-13.00	-64.55	Vertical
876.667	-52.78	-13.00	-39.78	Vertical
1183.680	-51.14	-13.00	-38.14	Vertical
2412.760	-20.76	-13.00	-7.76	Vertical
3462.750	-52.42	-13.00	-39.42	Vertical
4393.875	-50.43	-13.00	-37.43	Vertical
6101.000	-48.76	-13.00	-35.76	Vertical
8012.000	-47.92	-13.00	-34.92	Vertical
9281.000	-47.38	-13.00	-34.38	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
61.550	-68.55	-13.00	-55.55	Horizontal
155.950	-70.81	-13.00	-57.81	Horizontal
268.950	-78.86	-13.00	-65.86	Horizontal
463.600	-75.25	-13.00	-62.25	Horizontal
599.167	-59.61	-13.00	-46.61	Horizontal
875.833	-52.49	-13.00	-39.49	Horizontal
2406.400	-22.52	-13.00	-9.52	Horizontal
3375.000	-52.59	-13.00	-39.59	Horizontal
4314.000	-50.82	-13.00	-37.82	Horizontal
5001.000	-50.13	-13.00	-37.13	Horizontal
6947.000	-48.54	-13.00	-35.54	Horizontal
9248.000	-47.37	-13.00	-34.37	Horizontal

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## 7.2 For WCDMA

### 7.2.1 Test Band = WCDMA850

#### 7.2.1.1 Test Mode = UMTS/TM1

##### 7.2.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.050	-90.13	-36.00	-54.13	Vertical
150.950	-89.55	-36.00	-53.55	Vertical
235.000	-88.52	-36.00	-52.52	Vertical
352.500	-78.52	-36.00	-42.52	Vertical
430.850	-84.98	-36.00	-48.98	Vertical
521.179	-66.73	-36.00	-30.73	Vertical
1654.500	-61.78	-30.00	-31.78	Vertical
2670.500	-56.49	-30.00	-26.49	Vertical
3741.488	-67.75	-30.00	-37.75	Vertical
4956.338	-65.25	-30.00	-35.25	Vertical
7817.963	-63.66	-30.00	-33.66	Vertical
10517.738	-63.02	-30.00	-33.02	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.150	-91.40	-36.00	-55.40	Horizontal
149.550	-88.46	-36.00	-52.46	Horizontal
235.000	-84.23	-36.00	-48.23	Horizontal
352.500	-82.94	-36.00	-46.94	Horizontal
469.983	-74.63	-36.00	-38.63	Horizontal
622.471	-78.80	-36.00	-42.80	Horizontal
1654.000	-64.18	-30.00	-34.18	Horizontal
2650.000	-57.47	-30.00	-27.47	Horizontal
3963.300	-67.73	-30.00	-37.73	Horizontal
6163.875	-65.21	-30.00	-35.21	Horizontal
7862.813	-64.02	-30.00	-34.02	Horizontal
10627.425	-63.08	-30.00	-33.08	Horizontal

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## 7.2.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.050	-91.60	-36.00	-55.60	Vertical
190.650	-93.76	-36.00	-57.76	Vertical
286.250	-88.16	-36.00	-52.16	Vertical
371.100	-86.83	-36.00	-50.83	Vertical
457.150	-82.87	-36.00	-46.87	Vertical
613.121	-79.89	-36.00	-43.89	Vertical
1682.500	-64.57	-30.00	-34.57	Vertical
2681.500	-57.12	-30.00	-27.12	Vertical
4094.925	-67.71	-30.00	-37.71	Vertical
5998.125	-65.84	-30.00	-35.84	Vertical
7819.425	-64.63	-30.00	-34.63	Vertical
10500.188	-63.99	-30.00	-33.99	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.050	-91.70	-36.00	-55.70	Horizontal
149.750	-90.25	-36.00	-54.25	Horizontal
293.700	-87.85	-36.00	-51.85	Horizontal
401.300	-87.35	-36.00	-51.35	Horizontal
471.083	-81.44	-36.00	-45.44	Horizontal
608.629	-78.97	-36.00	-42.97	Horizontal
1445.500	-66.18	-30.00	-36.18	Horizontal
1946.500	-58.70	-30.00	-28.70	Horizontal
4307.475	-66.77	-30.00	-36.77	Horizontal
5948.888	-65.80	-30.00	-35.80	Horizontal
8684.250	-64.62	-30.00	-34.62	Horizontal
11889.563	-63.68	-30.00	-33.68	Horizontal

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## 7.2.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.000	-89.40	-36.00	-53.40	Vertical
171.700	-94.47	-36.00	-58.47	Vertical
258.300	-89.73	-36.00	-53.73	Vertical
380.400	-86.67	-36.00	-50.67	Vertical
479.608	-82.67	-36.00	-46.67	Vertical
616.513	-79.89	-36.00	-43.89	Vertical
1713.500	-54.31	-30.00	-24.31	Vertical
2630.500	-57.78	-30.00	-27.78	Vertical
3777.075	-68.69	-30.00	-38.69	Vertical
5031.900	-66.82	-30.00	-36.82	Vertical
7245.638	-65.25	-30.00	-35.25	Vertical
10497.750	-64.02	-30.00	-34.02	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.750	-92.15	-36.00	-56.15	Horizontal
146.750	-88.16	-36.00	-52.16	Horizontal
226.400	-90.10	-36.00	-54.10	Horizontal
346.900	-87.91	-36.00	-51.91	Horizontal
479.929	-81.76	-36.00	-45.76	Horizontal
612.892	-78.76	-36.00	-42.76	Horizontal
1691.000	-62.11	-30.00	-32.11	Horizontal
2680.500	-57.46	-30.00	-27.46	Horizontal
3706.875	-68.68	-30.00	-38.68	Horizontal
5111.850	-66.81	-30.00	-36.81	Horizontal
7798.950	-64.61	-30.00	-34.61	Horizontal
10070.700	-64.60	-30.00	-34.60	Horizontal

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## 7.2.2 Test Band = WCDMA1700

### 7.2.2.1 Test Mode = UMTS/TM1

#### 7.2.2.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
98.000	-83.22	-36.00	-47.22	Vertical
312.000	-84.63	-36.00	-48.63	Vertical
430.700	-87.99	-36.00	-51.99	Vertical
621.600	-83.95	-36.00	-47.95	Vertical
815.108	-80.31	-36.00	-44.31	Vertical
1363.000	-58.64	-30.00	-28.64	Vertical
3840.450	-68.31	-30.00	-38.31	Vertical
5133.788	-62.15	-30.00	-32.15	Vertical
6568.013	-65.25	-30.00	-35.25	Vertical
9064.500	-64.30	-30.00	-34.30	Vertical
10606.950	-63.37	-30.00	-33.37	Vertical
11899.313	-63.35	-30.00	-33.35	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
97.200	-88.10	-13.00	-75.10	Horizontal
312.000	-86.29	-13.00	-73.29	Horizontal
421.550	-86.69	-13.00	-73.69	Horizontal
611.746	-83.30	-13.00	-70.30	Horizontal
907.738	-78.75	-13.00	-65.75	Horizontal
1363.000	-59.83	-13.00	-46.83	Horizontal
3422.663	-67.00	-13.00	-54.00	Horizontal
5134.275	-58.08	-13.00	-45.08	Horizontal
6174.600	-65.55	-13.00	-52.55	Horizontal
7862.325	-64.28	-13.00	-51.28	Horizontal
9240.000	-63.99	-13.00	-50.99	Horizontal
11886.638	-63.68	-13.00	-50.68	Horizontal

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## 7.2.2.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
74.100	-89.85	-36.00	-53.85	Vertical
194.700	-94.21	-36.00	-58.21	Vertical
312.000	-85.47	-36.00	-49.47	Vertical
454.354	-86.92	-36.00	-50.92	Vertical
781.696	-80.35	-36.00	-44.35	Vertical
1383.500	-59.03	-30.00	-29.03	Vertical
3463.125	-65.53	-30.00	-35.53	Vertical
5194.725	-59.28	-30.00	-29.28	Vertical
6128.288	-65.84	-30.00	-35.84	Vertical
7978.838	-64.31	-30.00	-34.31	Vertical
9267.788	-63.97	-30.00	-33.97	Vertical
11887.613	-63.37	-30.00	-33.37	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
74.050	-89.49	-13.00	-76.49	Horizontal
203.450	-91.41	-13.00	-78.41	Horizontal
312.000	-86.24	-13.00	-73.24	Horizontal
460.725	-85.56	-13.00	-72.56	Horizontal
619.033	-83.13	-13.00	-70.13	Horizontal
933.954	-78.03	-13.00	-65.03	Horizontal
3463.125	-65.28	-13.00	-52.28	Horizontal
5194.725	-60.45	-13.00	-47.45	Horizontal
6182.400	-65.55	-13.00	-52.55	Horizontal
7990.538	-64.30	-13.00	-51.30	Horizontal
9265.350	-63.94	-13.00	-50.94	Horizontal
11896.388	-63.68	-13.00	-50.68	Horizontal

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## 7.2.2.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
68.700	-89.42	-36.00	-53.42	Vertical
149.650	-91.26	-36.00	-55.26	Vertical
312.000	-84.36	-36.00	-48.36	Vertical
575.583	-84.77	-36.00	-48.77	Vertical
889.404	-79.74	-36.00	-43.74	Vertical
1403.000	-58.09	-30.00	-28.09	Vertical
3503.100	-65.16	-30.00	-35.16	Vertical
5254.688	-59.48	-30.00	-29.48	Vertical
6217.988	-65.57	-30.00	-35.57	Vertical
7981.763	-64.23	-30.00	-34.23	Vertical
9246.825	-63.96	-30.00	-33.96	Vertical
11693.100	-64.00	-30.00	-34.00	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
71.700	-87.16	-13.00	-74.16	Horizontal
134.750	-82.06	-13.00	-69.06	Horizontal
312.000	-85.28	-13.00	-72.28	Horizontal
527.688	-86.49	-13.00	-73.49	Horizontal
788.250	-80.43	-13.00	-67.43	Horizontal
1403.500	-58.65	-13.00	-45.65	Horizontal
2152.000	-48.60	-13.00	-35.60	Horizontal
3503.100	-63.34	-13.00	-50.34	Horizontal
5254.688	-60.51	-13.00	-47.51	Horizontal
7240.763	-65.20	-13.00	-52.20	Horizontal
9859.613	-64.63	-13.00	-51.63	Horizontal
11887.613	-63.63	-13.00	-50.63	Horizontal

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## 7.2.3 Test Band = WCDMA1900

### 7.2.3.1 Test Mode = UMTS/TM1

#### 7.2.3.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
121.750	-73.60	-36.00	-37.60	Vertical
221.400	-91.51	-36.00	-55.51	Vertical
312.050	-84.89	-36.00	-48.89	Vertical
458.892	-87.05	-36.00	-51.05	Vertical
612.296	-84.18	-36.00	-48.18	Vertical
788.800	-80.16	-36.00	-44.16	Vertical
3702.975	-62.30	-30.00	-32.30	Vertical
4298.213	-67.39	-30.00	-37.39	Vertical
5559.863	-65.88	-30.00	-35.88	Vertical
7939.350	-64.56	-30.00	-34.56	Vertical
10255.950	-64.64	-30.00	-34.64	Vertical
11865.188	-63.64	-30.00	-33.64	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.300	-78.09	-13.00	-65.09	Horizontal
123.250	-76.65	-13.00	-63.65	Horizontal
364.050	-85.73	-13.00	-72.73	Horizontal
478.921	-85.81	-13.00	-72.81	Horizontal
610.600	-83.31	-13.00	-70.31	Horizontal
799.892	-80.84	-13.00	-67.84	Horizontal
3702.975	-62.83	-13.00	-49.83	Horizontal
4349.400	-67.09	-13.00	-54.09	Horizontal
5554.013	-62.60	-13.00	-49.60	Horizontal
7991.513	-64.24	-13.00	-51.24	Horizontal
9265.350	-63.89	-13.00	-50.89	Horizontal
10644.975	-63.58	-13.00	-50.58	Horizontal

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## 7.2.3.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
122.200	-73.40	-36.00	-37.40	Vertical
221.750	-91.72	-36.00	-55.72	Vertical
312.000	-83.80	-36.00	-47.80	Vertical
443.250	-86.97	-36.00	-50.97	Vertical
612.158	-84.23	-36.00	-48.23	Vertical
916.217	-78.57	-36.00	-42.57	Vertical
3758.063	-66.82	-30.00	-36.82	Vertical
5636.888	-64.33	-30.00	-34.33	Vertical
6646.500	-65.52	-30.00	-35.52	Vertical
7991.025	-64.47	-30.00	-34.47	Vertical
9107.888	-64.25	-30.00	-34.25	Vertical
10644.975	-63.57	-30.00	-33.57	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
71.700	-86.87	-13.00	-73.87	Horizontal
195.050	-91.01	-13.00	-78.01	Horizontal
364.000	-86.04	-13.00	-73.04	Horizontal
610.829	-82.94	-13.00	-69.94	Horizontal
789.396	-80.32	-13.00	-67.32	Horizontal
958.658	-77.26	-13.00	-64.26	Horizontal
3758.063	-62.20	-13.00	-49.20	Horizontal
5636.888	-63.26	-13.00	-50.26	Horizontal
7981.763	-64.23	-13.00	-51.23	Horizontal
9249.750	-63.95	-13.00	-50.95	Horizontal
10596.225	-63.69	-13.00	-50.69	Horizontal
12276.150	-63.71	-13.00	-50.71	Horizontal

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### 7.2.3.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
86.300	-90.64	-36.00	-54.64	Vertical
209.300	-92.31	-36.00	-56.31	Vertical
312.000	-83.89	-36.00	-47.89	Vertical
425.450	-86.82	-36.00	-50.82	Vertical
599.600	-84.53	-36.00	-48.53	Vertical
924.008	-78.62	-36.00	-42.62	Vertical
3816.563	-61.91	-30.00	-31.91	Vertical
5719.763	-63.35	-30.00	-33.35	Vertical
7630.275	-63.38	-30.00	-33.38	Vertical
9265.350	-64.19	-30.00	-34.19	Vertical
10644.975	-63.59	-30.00	-33.59	Vertical
11864.700	-63.69	-30.00	-33.69	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
81.800	-91.33	-13.00	-78.33	Horizontal
174.150	-92.57	-13.00	-79.57	Horizontal
295.150	-87.59	-13.00	-74.59	Horizontal
428.350	-86.15	-13.00	-73.15	Horizontal
619.996	-83.24	-13.00	-70.24	Horizontal
937.163	-77.64	-13.00	-64.64	Horizontal
3816.563	-63.80	-13.00	-50.80	Horizontal
4857.863	-66.81	-13.00	-53.81	Horizontal
5719.275	-61.17	-13.00	-48.17	Horizontal
7982.250	-64.30	-13.00	-51.30	Horizontal
9268.763	-63.97	-13.00	-50.97	Horizontal
10645.463	-63.64	-13.00	-50.64	Horizontal

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## 7.3 For LTE

### 7.3.1 Test Band = LTE 750

#### 7.3.1.1 Test Mode =LTE/TM1 10MHz

##### 7.3.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-94.41	-13.00	-81.41	Vertical
126.600	-91.62	-13.00	-78.62	Vertical
185.400	-95.88	-13.00	-82.88	Vertical
261.000	-91.25	-13.00	-78.25	Vertical
361.800	-87.78	-13.00	-74.78	Vertical
565.500	-82.15	-13.00	-69.15	Vertical
1276.000	-66.25	-13.00	-53.25	Vertical
2272.000	-59.17	-13.00	-46.17	Vertical
3975.000	-67.95	-13.00	-54.95	Vertical
6022.500	-66.06	-13.00	-53.06	Vertical
7875.000	-64.32	-13.00	-51.32	Vertical
10507.500	-63.91	-13.00	-50.91	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-93.72	-13.00	-80.72	Horizontal
135.000	-96.45	-13.00	-83.45	Horizontal
202.200	-93.37	-13.00	-80.37	Horizontal
277.800	-89.37	-13.00	-76.37	Horizontal
391.200	-89.30	-13.00	-76.30	Horizontal
587.500	-81.60	-13.00	-68.60	Horizontal
1210.000	-66.96	-13.00	-53.96	Horizontal
1892.000	-62.87	-13.00	-49.87	Horizontal
4170.000	-67.53	-13.00	-54.53	Horizontal
6022.500	-65.98	-13.00	-52.98	Horizontal
8460.000	-64.90	-13.00	-51.90	Horizontal
10605.000	-63.62	-13.00	-50.62	Horizontal

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## 7.3.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.000	-87.72	-13.00	-74.72	Vertical
130.800	-93.77	-13.00	-80.77	Vertical
227.400	-92.62	-13.00	-79.62	Vertical
282.000	-89.66	-13.00	-76.66	Vertical
353.400	-87.73	-13.00	-74.73	Vertical
538.000	-83.16	-13.00	-70.16	Vertical
1276.000	-66.24	-13.00	-53.24	Vertical
2208.000	-59.16	-13.00	-46.16	Vertical
3585.000	-68.79	-13.00	-55.79	Vertical
4755.000	-67.42	-13.00	-54.42	Vertical
6705.000	-65.47	-13.00	-52.47	Vertical
10507.500	-63.91	-13.00	-50.91	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
80.400	-95.43	-13.00	-82.43	Horizontal
126.600	-96.45	-13.00	-83.45	Horizontal
168.600	-94.40	-13.00	-81.40	Horizontal
252.600	-90.15	-13.00	-77.15	Horizontal
336.600	-90.03	-13.00	-77.03	Horizontal
483.000	-82.77	-13.00	-69.77	Horizontal
1144.000	-67.41	-13.00	-54.41	Horizontal
1892.000	-62.87	-13.00	-49.87	Horizontal
3682.500	-68.72	-13.00	-55.72	Horizontal
4852.500	-66.70	-13.00	-53.70	Horizontal
6997.500	-65.24	-13.00	-52.24	Horizontal
10605.000	-63.57	-13.00	-50.57	Horizontal

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## 7.3.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
67.800	-88.41	-13.00	-75.41	Vertical
151.800	-96.40	-13.00	-83.40	Vertical
244.200	-92.57	-13.00	-79.57	Vertical
294.600	-89.38	-13.00	-76.38	Vertical
357.600	-87.72	-13.00	-74.72	Vertical
538.000	-83.11	-13.00	-70.11	Vertical
1298.000	-66.79	-13.00	-53.79	Vertical
2456.000	-58.71	-13.00	-45.71	Vertical
3877.500	-68.24	-13.00	-55.24	Vertical
5535.000	-66.86	-13.00	-53.86	Vertical
6900.000	-65.21	-13.00	-52.21	Vertical
9532.500	-65.01	-13.00	-52.01	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.000	-89.01	-13.00	-76.01	Horizontal
126.600	-96.41	-13.00	-83.41	Horizontal
193.800	-93.06	-13.00	-80.06	Horizontal
261.000	-89.38	-13.00	-76.38	Horizontal
349.200	-89.81	-13.00	-76.81	Horizontal
538.000	-83.73	-13.00	-70.73	Horizontal
1419.000	-66.84	-13.00	-53.84	Horizontal
2424.000	-58.72	-13.00	-45.72	Horizontal
3877.500	-68.29	-13.00	-55.29	Horizontal
5535.000	-66.85	-13.00	-53.85	Horizontal
7875.000	-64.18	-13.00	-51.18	Horizontal
10605.000	-63.58	-13.00	-50.58	Horizontal

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## 7.3.2 Test Band = LTE 1700

### 7.3.2.1 Test Mode =LTE/TM1 20MHz

#### 7.3.2.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-94.43	-13.00	-81.43	Vertical
147.600	-96.50	-13.00	-83.50	Vertical
231.600	-92.97	-13.00	-79.97	Vertical
361.800	-87.84	-13.00	-74.84	Vertical
620.500	-85.59	-13.00	-72.59	Vertical
928.500	-79.99	-13.00	-66.99	Vertical
3780.000	-68.71	-13.00	-55.71	Vertical
4950.000	-66.65	-13.00	-53.65	Vertical
6607.500	-65.28	-13.00	-52.28	Vertical
7875.000	-64.29	-13.00	-51.29	Vertical
10605.000	-63.56	-13.00	-50.56	Vertical
11872.500	-63.66	-13.00	-50.66	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
80.400	-95.34	-13.00	-82.34	Horizontal
135.000	-96.88	-13.00	-83.88	Horizontal
269.400	-89.09	-13.00	-76.09	Horizontal
441.600	-87.37	-13.00	-74.37	Horizontal
609.500	-84.85	-13.00	-71.85	Horizontal
791.000	-81.96	-13.00	-68.96	Horizontal
3585.000	-68.62	-13.00	-55.62	Horizontal
4462.500	-67.59	-13.00	-54.59	Horizontal
5827.500	-66.63	-13.00	-53.63	Horizontal
7875.000	-64.11	-13.00	-51.11	Horizontal
10605.000	-63.54	-13.00	-50.54	Horizontal
12262.500	-63.91	-13.00	-50.91	Horizontal

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## 7.3.2.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-94.43	-13.00	-81.43	Vertical
151.800	-96.44	-13.00	-83.44	Vertical
261.000	-91.39	-13.00	-78.39	Vertical
416.400	-89.09	-13.00	-76.09	Vertical
620.500	-85.56	-13.00	-72.56	Vertical
796.500	-81.75	-13.00	-68.75	Vertical
2680.000	-57.27	-13.00	-44.27	Vertical
3682.500	-68.72	-13.00	-55.72	Vertical
5145.000	-66.01	-13.00	-53.01	Vertical
6900.000	-65.21	-13.00	-52.21	Vertical
9142.500	-63.94	-13.00	-50.94	Vertical
11677.500	-63.91	-13.00	-50.91	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-93.70	-13.00	-80.70	Horizontal
143.400	-96.85	-13.00	-83.85	Horizontal
277.800	-89.42	-13.00	-76.42	Horizontal
450.000	-87.43	-13.00	-74.43	Horizontal
620.500	-84.54	-13.00	-71.54	Horizontal
840.500	-82.30	-13.00	-69.30	Horizontal
3682.500	-68.70	-13.00	-55.70	Horizontal
4657.500	-67.38	-13.00	-54.38	Horizontal
6022.500	-65.95	-13.00	-52.95	Horizontal
8070.000	-65.10	-13.00	-52.10	Horizontal
9142.500	-63.75	-13.00	-50.75	Horizontal
10605.000	-63.54	-13.00	-50.54	Horizontal

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## 7.3.2.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-94.38	-13.00	-81.38	Vertical
135.000	-95.51	-13.00	-82.51	Vertical
223.200	-93.19	-13.00	-80.19	Vertical
370.200	-88.34	-13.00	-75.34	Vertical
620.500	-85.59	-13.00	-72.59	Vertical
950.500	-79.52	-13.00	-66.52	Vertical
3877.500	-68.25	-13.00	-55.25	Vertical
5242.500	-66.14	-13.00	-53.14	Vertical
6217.500	-65.56	-13.00	-52.56	Vertical
7875.000	-64.29	-13.00	-51.29	Vertical
9727.500	-64.44	-13.00	-51.44	Vertical
11677.500	-63.91	-13.00	-50.91	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
84.600	-98.01	-13.00	-85.01	Horizontal
185.400	-93.84	-13.00	-80.84	Horizontal
277.800	-89.41	-13.00	-76.41	Horizontal
433.200	-87.77	-13.00	-74.77	Horizontal
604.000	-85.34	-13.00	-72.34	Horizontal
857.000	-82.07	-13.00	-69.07	Horizontal
3585.000	-68.68	-13.00	-55.68	Horizontal
4755.000	-67.22	-13.00	-54.22	Horizontal
6217.500	-65.58	-13.00	-52.58	Horizontal
7972.500	-64.26	-13.00	-51.26	Horizontal
9727.500	-64.28	-13.00	-51.28	Horizontal
11872.500	-63.90	-13.00	-50.90	Horizontal

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## 7.3.3 Test Band = LTE 1900

### 7.3.3.1 Test Mode =LTE/TM1 20MHz

#### 7.3.3.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-91.81	-13.00	-78.81	Vertical
147.600	-89.78	-13.00	-76.78	Vertical
227.400	-93.00	-13.00	-80.00	Vertical
353.400	-87.75	-13.00	-74.75	Vertical
565.500	-86.78	-13.00	-73.78	Vertical
791.000	-81.54	-13.00	-68.54	Vertical
2680.000	-57.30	-13.00	-44.30	Vertical
3682.500	-67.65	-13.00	-54.65	Vertical
5535.000	-64.56	-13.00	-51.56	Vertical
6510.000	-65.56	-13.00	-52.56	Vertical
8460.000	-64.80	-13.00	-51.80	Vertical
10117.500	-64.73	-13.00	-51.73	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.71	-13.00	-79.71	Horizontal
210.600	-92.63	-13.00	-79.63	Horizontal
324.000	-90.14	-13.00	-77.14	Horizontal
477.500	-87.13	-13.00	-74.13	Horizontal
631.500	-84.94	-13.00	-71.94	Horizontal
873.500	-81.53	-13.00	-68.53	Horizontal
3585.000	-68.73	-13.00	-55.73	Horizontal
4657.500	-67.46	-13.00	-54.46	Horizontal
5925.000	-66.47	-13.00	-53.47	Horizontal
7875.000	-64.29	-13.00	-51.29	Horizontal
10507.500	-63.98	-13.00	-50.98	Horizontal
11872.500	-64.06	-13.00	-51.06	Horizontal

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## 7.3.3.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.42	-13.00	-79.42	Vertical
147.600	-90.63	-13.00	-77.63	Vertical
282.000	-89.68	-13.00	-76.68	Vertical
416.400	-89.09	-13.00	-76.09	Vertical
598.500	-86.02	-13.00	-73.02	Vertical
780.000	-81.98	-13.00	-68.98	Vertical
3682.500	-67.84	-13.00	-54.84	Vertical
4950.000	-66.58	-13.00	-53.58	Vertical
5632.500	-64.11	-13.00	-51.11	Vertical
7290.000	-65.17	-13.00	-52.17	Vertical
9240.000	-64.12	-13.00	-51.12	Vertical
11872.500	-63.65	-13.00	-50.65	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.000	-88.74	-13.00	-75.74	Horizontal
147.600	-91.44	-13.00	-78.44	Horizontal
277.800	-89.43	-13.00	-76.43	Horizontal
441.600	-87.41	-13.00	-74.41	Horizontal
620.500	-84.56	-13.00	-71.56	Horizontal
906.500	-80.82	-13.00	-67.82	Horizontal
3877.500	-68.29	-13.00	-55.29	Horizontal
4950.000	-66.41	-13.00	-53.41	Horizontal
6217.500	-65.58	-13.00	-52.58	Horizontal
7972.500	-64.27	-13.00	-51.27	Horizontal
9727.500	-64.29	-13.00	-51.29	Horizontal
11872.500	-63.95	-13.00	-50.95	Horizontal

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## 7.3.3.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.35	-13.00	-79.35	Vertical
181.200	-95.71	-13.00	-82.71	Vertical
286.200	-89.49	-13.00	-76.49	Vertical
472.000	-88.25	-13.00	-75.25	Vertical
664.500	-86.14	-13.00	-73.14	Vertical
846.000	-82.08	-13.00	-69.08	Vertical
3780.000	-67.83	-13.00	-54.83	Vertical
4852.500	-66.89	-13.00	-53.89	Vertical
6315.000	-65.91	-13.00	-52.91	Vertical
7875.000	-64.32	-13.00	-51.32	Vertical
9727.500	-64.42	-13.00	-51.42	Vertical
11677.500	-63.94	-13.00	-50.94	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-93.10	-13.00	-80.10	Horizontal
147.600	-90.37	-13.00	-77.37	Horizontal
282.000	-89.57	-13.00	-76.57	Horizontal
445.800	-87.24	-13.00	-74.24	Horizontal
615.000	-84.78	-13.00	-71.78	Horizontal
791.000	-81.98	-13.00	-68.98	Horizontal
3585.000	-68.69	-13.00	-55.69	Horizontal
4657.500	-67.41	-13.00	-54.41	Horizontal
5730.000	-66.91	-13.00	-53.91	Horizontal
7777.500	-64.42	-13.00	-51.42	Horizontal
9240.000	-64.04	-13.00	-51.04	Horizontal
11677.500	-64.23	-13.00	-51.23	Horizontal

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## 7.3.4 Test Band = LTE 2600

### 7.3.4.1 Test Mode =LTE/TM1 20MHz

#### 7.3.4.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
105.600	-94.11	-13.00	-81.11	Vertical
219.000	-93.52	-13.00	-80.52	Vertical
345.000	-87.90	-13.00	-74.90	Vertical
521.500	-88.20	-13.00	-75.20	Vertical
791.000	-81.56	-13.00	-68.56	Vertical
1584.000	-66.01	-13.00	-53.01	Vertical
3682.500	-68.71	-13.00	-55.71	Vertical
4950.000	-61.86	-13.00	-48.86	Vertical
6217.500	-65.57	-13.00	-52.57	Vertical
7485.000	-63.97	-13.00	-50.97	Vertical
9142.500	-63.95	-13.00	-50.95	Vertical
11190.000	-64.00	-13.00	-51.00	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
80.400	-95.37	-13.00	-82.37	Horizontal
189.600	-93.36	-13.00	-80.36	Horizontal
361.800	-89.74	-13.00	-76.74	Horizontal
604.000	-85.36	-13.00	-72.36	Horizontal
912.000	-80.79	-13.00	-67.79	Horizontal
1474.000	-66.01	-13.00	-53.01	Horizontal
3975.000	-68.01	-13.00	-55.01	Horizontal
4950.000	-63.63	-13.00	-50.63	Horizontal
6120.000	-65.69	-13.00	-52.69	Horizontal
7485.000	-61.77	-13.00	-48.77	Horizontal
9240.000	-63.99	-13.00	-50.99	Horizontal
11677.500	-64.20	-13.00	-51.20	Horizontal

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## 7.3.4.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
130.800	-93.92	-13.00	-80.92	Vertical
240.000	-92.88	-13.00	-79.88	Vertical
361.800	-87.83	-13.00	-74.83	Vertical
543.500	-87.49	-13.00	-74.49	Vertical
791.000	-81.52	-13.00	-68.52	Vertical
1584.000	-66.00	-13.00	-53.00	Vertical
3975.000	-67.94	-13.00	-54.94	Vertical
5047.500	-64.13	-13.00	-51.13	Vertical
6217.500	-65.60	-13.00	-52.60	Vertical
7972.500	-64.37	-13.00	-51.37	Vertical
9727.500	-64.46	-13.00	-51.46	Vertical
11872.500	-63.69	-13.00	-50.69	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
80.400	-95.35	-13.00	-82.35	Horizontal
126.600	-96.34	-13.00	-83.34	Horizontal
265.200	-89.22	-13.00	-76.22	Horizontal
483.000	-86.98	-13.00	-73.98	Horizontal
791.000	-81.98	-13.00	-68.98	Horizontal
1210.000	-66.95	-13.00	-53.95	Horizontal
3975.000	-68.01	-13.00	-55.01	Horizontal
5047.500	-64.19	-13.00	-51.19	Horizontal
6510.000	-65.72	-13.00	-52.72	Horizontal
7582.500	-62.93	-13.00	-49.93	Horizontal
9240.000	-64.02	-13.00	-51.02	Horizontal
11190.000	-64.28	-13.00	-51.28	Horizontal

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## 7.3.4.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
101.400	-95.55	-13.00	-82.55	Vertical
198.000	-95.85	-13.00	-82.85	Vertical
336.600	-88.19	-13.00	-75.19	Vertical
516.000	-88.19	-13.00	-75.19	Vertical
758.000	-83.07	-13.00	-70.07	Vertical
1265.000	-66.27	-13.00	-53.27	Vertical
3780.000	-68.72	-13.00	-55.72	Vertical
5047.500	-64.78	-13.00	-51.78	Vertical
6217.500	-65.61	-13.00	-52.61	Vertical
7972.500	-64.38	-13.00	-51.38	Vertical
9240.000	-64.20	-13.00	-51.20	Vertical
11872.500	-63.69	-13.00	-50.69	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-93.72	-13.00	-80.72	Horizontal
139.200	-96.80	-13.00	-83.80	Horizontal
265.200	-89.22	-13.00	-76.22	Horizontal
483.000	-86.98	-13.00	-73.98	Horizontal
791.000	-81.98	-13.00	-68.98	Horizontal
1496.000	-65.99	-13.00	-52.99	Horizontal
3877.500	-68.30	-13.00	-55.30	Horizontal
5047.500	-64.35	-13.00	-51.35	Horizontal
7192.500	-65.12	-13.00	-52.12	Horizontal
9142.500	-63.79	-13.00	-50.79	Horizontal
10702.500	-63.84	-13.00	-50.84	Horizontal
11970.000	-64.17	-13.00	-51.17	Horizontal

### NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) Pretest was performed at the EUT in low, middle, high channel, but only the worst test channel (Channel 21100) and only the data of the worst case show in the test report.

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## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-3.20	-0.00388	PASS
				VN	-8.10	-0.00983	PASS
				VH	0.42	0.00051	PASS
		MCH	TN	VL	-7.84	-0.00937	PASS
				VN	-6.62	-0.00791	PASS
				VH	-5.26	-0.00629	PASS
		HCH	TN	VL	-0.90	-0.00106	PASS
				VN	-5.62	-0.00662	PASS
				VH	-9.04	-0.01065	PASS
	GSM/TM2	LCH	TN	VL	-5.52	-0.00670	PASS
				VN	-10.98	-0.01332	PASS
				VH	-4.25	-0.00516	PASS
		MCH	TN	VL	-7.31	-0.00874	PASS
				VN	-15.58	-0.01862	PASS
				VH	-8.02	-0.00959	PASS
		HCH	TN	VL	-8.15	-0.00960	PASS
				VN	-3.57	-0.00421	PASS
				VH	-10.83	-0.01276	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-12.84	-0.00694	PASS
				VN	-10.19	-0.00551	PASS
				VH	-8.64	-0.00467	PASS
		MCH	TN	VL	-2.50	-0.00133	PASS
				VN	-1.79	-0.00095	PASS
				VH	-7.48	-0.00398	PASS
		HCH	TN	VL	-1.15	-0.00060	PASS
				VN	-8.38	-0.00439	PASS
				VH	-19.03	-0.00996	PASS
	GSM/TM2	LCH	TN	VL	3.58	0.00193	PASS
				VN	-5.72	-0.00309	PASS
				VH	-7.98	-0.00431	PASS
		MCH	TN	VL	-18.96	-0.01009	PASS
				VN	-1.99	-0.00106	PASS
				VH	-14.42	-0.00767	PASS
		HCH	TN	VL	-6.93	-0.00363	PASS
				VN	-10.74	-0.00562	PASS
				VH	-9.48	-0.00496	PASS





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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 850	UMTS/TM1	LCH	TN	VL	0.28	0.00034	PASS
				VN	-0.18	-0.00022	PASS
				VH	0.02	0.00002	PASS
		MCH	TN	VL	0.84	0.00100	PASS
				VN	0.75	0.00090	PASS
				VH	-1.35	-0.00161	PASS
		HCH	TN	VL	1.74	0.00206	PASS
				VN	-2.64	-0.00312	PASS
				VH	2.84	0.00335	PASS
WCDMA 1700	UMTS/TM1	LCH	TN	VL	-4.13	-0.00241	PASS
				VN	-7.28	-0.00425	PASS
				VH	-3.01	-0.00176	PASS
		MCH	TN	VL	-5.23	-0.00302	PASS
				VN	-3.18	-0.00184	PASS
				VH	-7.98	-0.00460	PASS
		HCH	TN	VL	0.54	0.00031	PASS
				VN	-7.73	-0.00441	PASS
				VH	-6.58	-0.00375	PASS
WCDMA 1900	UMTS/TM1	LCH	TN	VL	-7.18	-0.00388	PASS
				VN	-4.10	-0.00221	PASS
				VH	-7.80	-0.00421	PASS
		MCH	TN	VL	-6.43	-0.00342	PASS
				VN	-9.39	-0.00499	PASS
				VH	-5.68	-0.00302	PASS
		HCH	TN	VL	-5.62	-0.00295	PASS
				VN	-10.32	-0.00541	PASS
				VH	-2.19	-0.00115	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 700	LTE/TM1 10MHz	LCH	TN	VL	-1.21	-0.00170	PASS
				VN	-1.30	-0.00184	PASS
				VH	-2.27	-0.00320	PASS
		MCH	TN	VL	-0.14	-0.00020	PASS
				VN	-1.98	-0.00278	PASS
				VH	-8.29	-0.01168	PASS
		HCH	TN	VL	-4.42	-0.00622	PASS
				VN	-7.90	-0.01111	PASS
				VH	-1.13	-0.00159	PASS
	LTE/TM2 10MHz	LCH	TN	VL	0.34	0.00048	PASS
				VN	-1.20	-0.00169	PASS
				VH	0.86	0.00121	PASS
		MCH	TN	VL	1.41	0.00199	PASS
				VN	2.34	0.00330	PASS
				VH	0.32	0.00046	PASS
		HCH	TN	VL	4.94	0.00694	PASS
				VN	-0.65	-0.00092	PASS
				VH	-1.12	-0.00158	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 1700	LTE/TM1 20MHz	LCH	TN	VL	-8.03	-0.00467	PASS
				VN	0.46	0.00027	PASS
				VH	-7.73	-0.00449	PASS
		MCH	TN	VL	1.49	0.00086	PASS
				VN	-2.84	-0.00164	PASS
				VH	2.63	0.00152	PASS
		HCH	TN	VL	-6.56	-0.00376	PASS
				VN	-5.17	-0.00296	PASS
				VH	-0.79	-0.00045	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-7.28	-0.00423	PASS
				VN	-2.95	-0.00171	PASS
				VH	-5.16	-0.00300	PASS
		MCH	TN	VL	1.56	0.00090	PASS
				VN	-2.80	-0.00162	PASS
				VH	2.59	0.00150	PASS
		HCH	TN	VL	-3.08	-0.00176	PASS
				VN	-8.00	-0.00459	PASS
				VH	0.44	0.00025	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 1900	LTE/TM1 20MHz	LCH	TN	VL	0.50	0.00027	PASS
				VN	-7.70	-0.00414	PASS
				VH	-6.55	-0.00352	PASS
		MCH	TN	VL	-5.20	-0.00276	PASS
				VN	-0.82	-0.00044	PASS
				VH	-5.49	-0.00292	PASS
		HCH	TN	VL	-5.20	-0.00274	PASS
				VN	-0.77	-0.00040	PASS
				VH	-5.51	-0.00290	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-6.63	-0.00356	PASS
				VN	-7.88	-0.00424	PASS
				VH	-7.42	-0.00399	PASS
		MCH	TN	VL	1.55	0.00082	PASS
				VN	-2.87	-0.00153	PASS
				VH	2.62	0.00139	PASS
		HCH	TN	VL	-7.16	-0.00377	PASS
				VN	-4.13	-0.00218	PASS
				VH	-7.40	-0.00389	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 2600	LTE/TM1 20MHz	LCH	TN	VL	1.67	0.00067	PASS
				VN	-4.34	-0.00173	PASS
				VH	-7.76	-0.00309	PASS
		MCH	TN	VL	-5.10	-0.00201	PASS
				VN	-6.43	-0.00254	PASS
				VH	-9.13	-0.00360	PASS
		HCH	TN	VL	-8.00	-0.00313	PASS
				VN	-6.00	-0.00234	PASS
				VH	-7.30	-0.00285	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-6.25	-0.00249	PASS
				VN	-6.54	-0.00261	PASS
				VH	-7.77	-0.00310	PASS
		MCH	TN	VL	-7.30	-0.00288	PASS
				VN	-7.07	-0.00279	PASS
				VH	-4.03	-0.00159	PASS
		HCH	TN	VL	-7.22	-0.00282	PASS
				VN	-2.84	-0.00111	PASS
				VH	-5.07	-0.00198	PASS

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## 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-2.05	-0.00249	PASS
				-20	-1.31	-0.00159	PASS
				-10	-1.69	-0.00205	PASS
				0	-3.51	-0.00426	PASS
				10	1.22	0.00148	PASS
				20	2.48	0.00302	PASS
				30	2.51	0.00304	PASS
				40	0.98	0.00119	PASS
				50	6.10	0.00740	PASS
		MCH	VN	-30	0.21	0.00025	PASS
				-20	2.93	0.00351	PASS
				-10	-0.71	-0.00085	PASS
				0	-2.03	-0.00242	PASS
				10	0.39	0.00047	PASS
				20	-1.15	-0.00138	PASS
				30	0.93	0.00112	PASS
				40	1.42	0.00169	PASS
				50	2.37	0.00283	PASS
		HCH	VN	-30	0.24	0.00029	PASS
				-20	4.99	0.00588	PASS
				-10	-0.67	-0.00078	PASS
				0	-1.09	-0.00128	PASS
				10	-0.86	-0.00101	PASS
				20	-1.13	-0.00133	PASS
				30	-1.31	-0.00155	PASS
				40	-2.21	-0.00260	PASS
				50	-0.17	-0.00020	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM1900	GSM/TM1	LCH	VN	-30	-14.91	-0.00806	PASS
				-20	-8.87	-0.00480	PASS
				-10	-14.09	-0.00762	PASS
				0	-2.25	-0.00122	PASS
				10	1.62	0.00088	PASS
				20	-5.01	-0.00271	PASS
				30	-13.86	-0.00749	PASS
				40	-10.37	-0.00561	PASS
				50	1.34	0.00072	PASS
		MCH	VN	-30	-5.81	-0.00309	PASS
				-20	-7.35	-0.00391	PASS
				-10	-13.13	-0.00699	PASS
				0	-0.69	-0.00037	PASS
				10	-15.33	-0.00815	PASS
				20	-7.68	-0.00409	PASS
				30	2.44	0.00130	PASS
				40	-8.84	-0.00470	PASS
				50	-11.95	-0.00636	PASS
		HCH	VN	-30	-14.62	-0.00766	PASS
				-20	-5.18	-0.00271	PASS
				-10	-6.69	-0.00350	PASS
				0	-11.66	-0.00610	PASS
				10	1.06	0.00055	PASS
				20	2.60	0.00136	PASS
				30	-6.21	-0.00325	PASS
				40	-13.56	-0.00710	PASS
				50	-2.21	-0.00116	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 850	UMTS/TM1	LCH	VN	-30	2.73	0.00330	PASS
				-20	1.50	0.00182	PASS
				-10	0.67	0.00081	PASS
				0	-2.68	-0.00324	PASS
				10	0.56	0.00068	PASS
				20	-1.80	-0.00218	PASS
				30	1.60	0.00194	PASS
				40	-0.04	-0.00004	PASS
				50	-1.01	-0.00123	PASS
		MCH	VN	-30	-1.80	-0.00215	PASS
				-20	-1.08	-0.00129	PASS
				-10	-0.39	-0.00047	PASS
				0	-1.38	-0.00165	PASS
				10	2.31	0.00276	PASS
				20	1.72	0.00206	PASS
				30	1.61	0.00192	PASS
				40	0.13	0.00016	PASS
				50	-0.35	-0.00042	PASS
		HCH	VN	-30	-0.17	-0.00020	PASS
				-20	0.68	0.00080	PASS
				-10	0.55	0.00065	PASS
				0	-1.52	-0.00180	PASS
				10	1.57	0.00185	PASS
				20	-2.78	-0.00329	PASS
				30	2.64	0.00311	PASS
				40	-0.63	-0.00075	PASS
				50	-2.60	-0.00307	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1700	UMTS/TM1	LCH	VN	-30	-5.49	-0.00321	PASS
				-20	-8.96	-0.00523	PASS
				-10	-5.97	-0.00349	PASS
				0	-7.50	-0.00438	PASS
				10	-5.65	-0.00330	PASS
				20	-4.11	-0.00240	PASS
				30	-9.96	-0.00582	PASS
				40	-5.71	-0.00333	PASS
				50	-4.74	-0.00277	PASS
		MCH	VN	-30	-6.94	-0.00401	PASS
				-20	-8.29	-0.00478	PASS
				-10	-4.34	-0.00250	PASS
				0	-7.76	-0.00448	PASS
				10	-5.10	-0.00294	PASS
				20	-6.43	-0.00371	PASS
				30	-9.13	-0.00527	PASS
				40	-8.00	-0.00462	PASS
				50	-6.00	-0.00346	PASS
		HCH	VN	-30	-6.25	-0.00357	PASS
				-20	-6.54	-0.00373	PASS
				-10	-7.77	-0.00443	PASS
				0	-7.30	-0.00417	PASS
				10	-7.07	-0.00403	PASS
				20	-4.03	-0.00230	PASS
				30	-7.22	-0.00412	PASS
				40	-2.84	-0.00162	PASS
				50	-5.07	-0.00289	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1900	UMTS/TM1	LCH	VN	-30	-5.43	-0.00293	PASS
				-20	-8.95	-0.00483	PASS
				-10	-5.98	-0.00323	PASS
				0	-7.45	-0.00402	PASS
				10	-5.58	-0.00301	PASS
				20	-4.08	-0.00220	PASS
				30	-9.89	-0.00534	PASS
				40	-5.70	-0.00308	PASS
				50	-4.64	-0.00250	PASS
		MCH	VN	-30	-6.92	-0.00368	PASS
				-20	-8.27	-0.00440	PASS
				-10	-4.43	-0.00236	PASS
				0	-7.84	-0.00417	PASS
				10	-5.25	-0.00279	PASS
				20	-6.59	-0.00350	PASS
				30	-9.27	-0.00493	PASS
				40	-8.13	-0.00432	PASS
				50	-6.11	-0.00325	PASS
		HCH	VN	-30	-6.35	-0.00333	PASS
				-20	-6.68	-0.00350	PASS
				-10	-7.85	-0.00411	PASS
				0	-7.37	-0.00387	PASS
				10	-7.18	-0.00376	PASS
				20	-4.16	-0.00218	PASS
				30	-7.31	-0.00383	PASS
				40	-2.92	-0.00153	PASS
				50	-5.24	-0.00275	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 700	LTE/TM1 10MHz	LCH	VN	-30	-1.13	-0.00160	PASS
				-20	0.87	0.00122	PASS
				-10	1.46	0.00206	PASS
				0	2.27	0.00320	PASS
				10	0.23	0.00032	PASS
				20	4.95	0.00698	PASS
				30	-0.72	-0.00101	PASS
				40	-1.16	-0.00164	PASS
				50	-0.90	-0.00127	PASS
		MCH	VN	-30	1.70	0.00239	PASS
				-20	0.04	0.00006	PASS
				-10	-0.31	-0.00044	PASS
				0	-0.15	-0.00021	PASS
				10	0.67	0.00095	PASS
				20	-7.71	-0.01085	PASS
				30	-5.85	-0.00824	PASS
				40	-7.45	-0.01049	PASS
				50	-5.66	-0.00797	PASS
		HCH	VN	-30	0.38	0.00054	PASS
				-20	-1.21	-0.00170	PASS
				-10	0.92	0.00129	PASS
				0	1.47	0.00207	PASS
				10	2.37	0.00333	PASS
				20	0.25	0.00036	PASS
				30	4.91	0.00691	PASS
				40	-0.75	-0.00106	PASS
				50	-1.12	-0.00158	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 1700	LTE/TM1 20MHz	LCH	VN	-30	-7.71	-0.00448	PASS
				-20	-5.85	-0.00340	PASS
				-10	-7.50	-0.00436	PASS
				0	-5.58	-0.00324	PASS
				10	-4.09	-0.00238	PASS
				20	-9.89	-0.00575	PASS
				30	-5.70	-0.00331	PASS
				40	-4.69	-0.00273	PASS
				50	-6.85	-0.00398	PASS
		MCH	VN	-30	2.39	0.00138	PASS
				-20	1.73	0.00100	PASS
				-10	1.64	0.00094	PASS
				0	0.08	0.00004	PASS
				10	-0.35	-0.00020	PASS
				20	-0.14	-0.00008	PASS
				30	0.65	0.00037	PASS
				40	0.60	0.00034	PASS
				50	-1.60	-0.00092	PASS
		HCH	VN	-30	1.51	0.00087	PASS
				-20	-4.45	-0.00255	PASS
				-10	-7.87	-0.00451	PASS
				0	-5.21	-0.00299	PASS
				10	-6.61	-0.00379	PASS
				20	-9.27	-0.00531	PASS
				30	-8.13	-0.00466	PASS
				40	-6.07	-0.00348	PASS
				50	-6.42	-0.00368	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 1900	LTE/TM1 20MHz	LCH	VN	-30	-0.40	-0.00022	PASS
				-20	-1.34	-0.00072	PASS
				-10	2.38	0.00128	PASS
				0	1.75	0.00094	PASS
				10	1.65	0.00089	PASS
				20	0.11	0.00006	PASS
				30	-0.31	-0.00017	PASS
				40	-0.14	-0.00008	PASS
				50	0.59	0.00032	PASS
		MCH	VN	-30	-7.80	-0.00415	PASS
				-20	-5.95	-0.00317	PASS
				-10	-7.49	-0.00399	PASS
				0	-5.62	-0.00299	PASS
				10	-4.04	-0.00215	PASS
				20	-9.94	-0.00529	PASS
				30	-5.66	-0.00301	PASS
				40	-4.62	-0.00246	PASS
				50	-6.92	-0.00368	PASS
		HCH	VN	-30	0.54	0.00028	PASS
				-20	-1.49	-0.00078	PASS
				-10	1.53	0.00081	PASS
				0	-2.83	-0.00149	PASS
				10	2.60	0.00137	PASS
				20	-0.57	-0.00030	PASS
				30	-2.66	-0.00140	PASS
				40	-5.43	-0.00286	PASS
				50	-8.90	-0.00468	PASS

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**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE 2600	LTE/TM1 20MHz	LCH	VN	-30	-6.31	-0.00252	PASS
				-20	-6.61	-0.00264	PASS
				-10	-7.91	-0.00315	PASS
				0	-7.36	-0.00293	PASS
				10	-7.21	-0.00287	PASS
				20	-4.14	-0.00165	PASS
				30	-7.39	-0.00294	PASS
				40	-2.95	-0.00118	PASS
				50	-5.22	-0.00208	PASS
		MCH	VN	-30	-1.36	-0.00054	PASS
				-20	2.31	0.00091	PASS
				-10	1.76	0.00070	PASS
				0	1.70	0.00067	PASS
				10	0.13	0.00005	PASS
				20	-0.37	-0.00015	PASS
				30	-0.21	-0.00008	PASS
				40	0.60	0.00024	PASS
				50	0.56	0.00022	PASS
		HCH	VN	-30	-8.18	-0.00319	PASS
				-20	-6.07	-0.00237	PASS
				-10	-6.37	-0.00249	PASS
				0	-6.67	-0.00261	PASS
				10	-7.83	-0.00306	PASS
				20	-7.37	-0.00288	PASS
				30	-7.15	-0.00279	PASS
				40	-4.16	-0.00163	PASS
				50	-7.39	-0.00288	PASS

The End

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