

Frequency stability vs. temperature &Frequency stability vs. voltage Compliance

FCC Part 24E

LTE Band 2, TN/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.129	1868.991	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.069	1868.991	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.069	1908.991	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.069	1908.991	1850 ~ 1910	Pass

LTE Band 2, T1/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.131	1868.994	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.073	1868.995	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.072	1908.992	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.072	1908.995	1850 ~ 1910	Pass

LTE Band 2, T2/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.132	1868.995	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.071	1868.990	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.070	1908.993	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.069	1908.989	1850 ~ 1910	Pass

LTE Band 2, T3/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.129	1868.993	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.067	1868.995	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.071	1908.995	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.074	1908.996	1850 ~ 1910	Pass

LTE Band 2, T4/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.129	1868.988	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.068	1868.992	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.068	1908.990	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.067	1908.994	1850 ~ 1910	Pass

LTE Band 2, T5/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.130	1868.995	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.066	1868.995	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.072	1908.992	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.071	1908.994	1850 ~ 1910	Pass

LTE Band 2, T6/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.126	1868.996	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.066	1868.989	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.068	1908.991	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.072	1908.996	1850 ~ 1910	Pass

LTE Band 2, T7/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.129	1868.991	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.072	1868.993	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.068	1908.988	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.067	1908.989	1850 ~ 1910	Pass

LTE Band 2, T8/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.130	1868.995	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.070	1868.992	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.067	1908.990	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.068	1908.989	1850 ~ 1910	Pass

LTE Band 2, TN/VH

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.127	1868.992	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.066	1868.995	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.070	1908.989	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.070	1908.996	1850 ~ 1910	Pass

LTE Band 2, TN/VL

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.129	1868.990	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.074	1868.995	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.069	1908.994	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.073	1908.992	1850 ~ 1910	Pass

Note:
TN: 20°C; T1: -30°C; T2: -20°C; T3: -10°C; T4: 0°C; T5: 10°C; T6: 30°C; T7: 40°C; T8: 50°C.
VN: Normal Voltage; VL: Low Voltage; VH: High Voltage.

FCC Part 27**LTE Band 4, TN/VN**

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.069	1728.991	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.129	1728.991	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.129	1753.991	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.129	1753.931	1710 ~ 1755	Pass

LTE Band 4, T1/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.068	1728.989	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.132	1728.990	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.126	1753.991	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.133	1753.934	1710 ~ 1755	Pass

LTE Band 4, T2/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.068	1728.991	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.132	1728.992	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.131	1753.989	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.128	1753.932	1710 ~ 1755	Pass

LTE Band 4, T3/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.068	1728.990	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.126	1728.990	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.131	1753.989	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.134	1753.933	1710 ~ 1755	Pass

LTE Band 4, T4/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.073	1728.991	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.131	1728.991	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.132	1753.989	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.128	1753.936	1710 ~ 1755	Pass

LTE Band 4, T5/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.069	1728.993	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.126	1728.995	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.127	1753.993	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.127	1753.954	1710 ~ 1755	Pass

LTE Band 4, T6/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.070	1728.989	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.128	1728.989	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.130	1753.990	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.132	1753.948	1710 ~ 1755	Pass

LTE Band 4, T7/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.071	1728.995	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.132	1728.992	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.128	1753.995	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.129	1753.954	1710 ~ 1755	Pass

LTE Band 4, T8/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.071	1728.989	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.133	1728.994	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.130	1753.991	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.129	1753.942	1710 ~ 1755	Pass

LTE Band 4, TN/VH

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.071	1728.994	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.130	1728.995	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.134	1753.991	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.133	1753.933	1710 ~ 1755	Pass

LTE Band 4, TN/VL

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.067	1728.994	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.130	1728.993	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.129	1753.992	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.128	1753.935	1710 ~ 1755	Pass

LTE Band 7, TN/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.129	2518.991	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.069	2518.991	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.069	2568.991	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.129	2568.991	2500 ~ 2570	Pass

LTE Band 7, T1/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.131	2518.992	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.072	2518.989	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.069	2568.994	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.131	2568.988	2500 ~ 2570	Pass

LTE Band 7, T2/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.134	2518.994	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.073	2518.993	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.068	2568.990	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.126	2568.992	2500 ~ 2570	Pass

LTE Band 7, T3/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.131	2518.995	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.073	2518.992	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.069	2568.992	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.133	2568.994	2500 ~ 2570	Pass

LTE Band 7, T4/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.130	2518.995	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.071	2518.990	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.070	2568.989	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.127	2568.993	2500 ~ 2570	Pass

LTE Band 7, T5/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.131	2518.996	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.074	2518.996	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.073	2568.993	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.126	2568.991	2500 ~ 2570	Pass

LTE Band 7, T6/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.128	2518.989	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.066	2518.988	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.073	2568.991	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.128	2568.995	2500 ~ 2570	Pass

LTE Band 7, T7/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.133	2518.988	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.070	2518.992	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.071	2568.990	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.133	2568.989	2500 ~ 2570	Pass

LTE Band 7, T8/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.130	2518.992	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.071	2518.993	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.070	2568.989	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.131	2568.992	2500 ~ 2570	Pass

LTE Band 7, TN/VH

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.134	2518.990	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.072	2518.993	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.070	2568.989	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.134	2568.989	2500 ~ 2570	Pass

LTE Band 7, TN/VL

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.128	2518.989	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.066	2518.990	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.069	2568.995	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.129	2568.989	2500 ~ 2570	Pass

Note:
TN: 20°C; T1: -30°C; T2: -20°C; T3: -10°C; T4: 0°C; T5: 10°C; T6: 30°C; T7: 40°C; T8: 50°C.
VN: Normal Voltage; VL: Low Voltage; VH: High Voltage.

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