

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	1851.069	1868.931	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.129	1868.991	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.069	1908.991	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.069	1908.931	1850 ~ 1910	Pass

LTE Band 2, T1/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.069	1868.733	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.127	1868.992	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.070	1908.894	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.070	1908.933	1850 ~ 1910	Pass

LTE Band 2, T2/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.068	1868.931	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.131	1868.993	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.074	1908.998	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.074	1908.937	1850 ~ 1910	Pass

LTE Band 2, T3/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.071	1868.932	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.134	1868.991	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.074	1909.062	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.075	1908.942	1850 ~ 1910	Pass

LTE Band 2, T4/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.070	1868.937	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.132	1868.990	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.073	1909.801	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.076	1908.944	1850 ~ 1910	Pass

LTE Band 2, T5/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.075	1868.941	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.136	1868.996	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.083	1908.975	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.076	1908.942	1850 ~ 1910	Pass

LTE Band 2, T6/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.077	1868.943	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.138	1869.871	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.082	1908.993	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.076	1908.942	1850 ~ 1910	Pass

LTE Band 2, T7/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.073	1868.939	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.133	1868.989	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.065	1908.912	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.073	1908.943	1850 ~ 1910	Pass

LTE Band 2, T8/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.071	1868.924	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.137	1868.891	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.068	1908.990	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.077	1908.948	1850 ~ 1910	Pass

LTE Band 2, TN/VH

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1851.068	1868.911	1850 ~ 1910	Pass
20MHz_Low_16QAM_100@0	1851.129	1869.542	1850 ~ 1910	Pass
20MHz_High_QPSK_100@0	1891.069	1909.035	1850 ~ 1910	Pass
20MHz_High_16QAM_100@0	1891.097	1908.934	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	1728.931	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.069	1728.931	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.129	1754.051	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.129	1753.991	1710 ~ 1755	Pass

LTE Band 4, T1/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.072	1728.919	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.057	1728.918	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.124	1754.043	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.122	1753.996	1710 ~ 1755	Pass

LTE Band 4, T2/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.076	1728.908	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.050	1728.905	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.119	1754.030	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.110	1753.994	1710 ~ 1755	Pass

LTE Band 4, T3/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.073	1728.896	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.038	1728.894	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.113	1754.021	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.100	1753.993	1710 ~ 1755	Pass

LTE Band 4, T4/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.078	1728.883	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.025	1728.884	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.110	1754.010	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.094	1753.995	1710 ~ 1755	Pass

LTE Band 4, T5/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.081	1728.875	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.012	1728.876	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.104	1754.003	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.088	1753.942	1710 ~ 1755	Pass

LTE Band 4, T6/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.083	1728.867	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1711.004	1728.866	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.100	1753.990	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.079	1753.940	1710 ~ 1755	Pass

LTE Band 4, T7/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.084	1728.856	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1710.998	1728.857	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.092	1753.981	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.072	1753.938	1710 ~ 1755	Pass

LTE Band 4, T8/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.083	1728.844	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1710.991	1728.850	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.090	1753.974	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.066	1753.938	1710 ~ 1755	Pass

LTE Band 4, TN/VH

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.082	1728.834	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1710.985	1728.844	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.087	1753.967	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.058	1753.941	1710 ~ 1755	Pass

LTE Band 4, TN/VL

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	1711.083	1728.823	1710 ~ 1755	Pass
20MHz_Low_16QAM_100@0	1710.976	1728.838	1710 ~ 1755	Pass
20MHz_High_QPSK_100@0	1736.085	1753.954	1710 ~ 1755	Pass
20MHz_High_16QAM_100@0	1736.052	1753.939	1710 ~ 1755	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.

LTE Band 7, TN/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.069	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	2551.069	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	2501.068	2518.995	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.067	2518.994	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.073	2568.990	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.073	2568.989	2500 ~ 2570	Pass

LTE Band 7, T2/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.067	2518.993	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.064	2518.994	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.069	2568.996	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.064	2568.993	2500 ~ 2570	Pass

LTE Band 7, T3/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.072	2518.997	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.067	2518.999	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.072	2568.989	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.064	2568.995	2500 ~ 2570	Pass

LTE Band 7, T4/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.073	2519.003	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.075	2518.997	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.079	2568.992	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.072	2568.996	2500 ~ 2570	Pass

LTE Band 7, T5/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.065	2519.008	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.075	2518.999	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.079	2568.990	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.074	2568.997	2500 ~ 2570	Pass

LTE Band 7, T6/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.078	2518.992	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.077	2518.992	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.081	2568.989	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.079	2569.000	2500 ~ 2570	Pass

LTE Band 7, T7/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.076	2518.995	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.081	2518.994	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.078	2568.992	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.076	2569.004	2500 ~ 2570	Pass

LTE Band 7, T8/VN

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.080	2518.995	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.079	2518.995	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.078	2568.997	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.071	2569.006	2500 ~ 2570	Pass

LTE Band 7, TN/VH

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.082	2518.999	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.077	2518.994	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.075	2568.996	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.079	2569.007	2500 ~ 2570	Pass

LTE Band 7, TN/VL

Mode	F_L (MHz)	F_H (MHz)	Limit (MHz)	Verdict
20MHz_Low_QPSK_100@0	2501.063	2518.987	2500 ~ 2570	Pass
20MHz_Low_16QAM_100@0	2501.087	2518.997	2500 ~ 2570	Pass
20MHz_High_QPSK_100@0	2551.085	2568.992	2500 ~ 2570	Pass
20MHz_High_16QAM_100@0	2551.091	2569.001	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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