Modulating Signal Information

In our research project, we are using an equipment that is a nano-cell LTE base station manufactured by *ip.access* (Model: nanoLTE E40). This base-station follows standards and specifications identified by 3GPP for LTE communication.

The <u>modulating signal</u> used by this base-station is OFDMA in downlink and SC-FDMA in uplink (as defined for LTE by 3GPP).

The <u>frequency tolerance</u> for the base station is \pm 0.1 ppm as defined by 3GPP in TS36.104 Section 6.5.

Frequency Bands supported by the base-station

E-UTRA	Uplink (UL) operating band	Downlink (DL) operating band	Duplex
Operating		BS transmit	Mode
Band	UE transmit	UE receive	
	Ful_low - Ful_high	FDL_low - FDL_high	
1	1920 MHz - 1980 MHz	2110 MHz - 2170 MHz	FDD
3	1710 MHz - 1785 MHz	1805 MHz - 1880 MHz	FDD
7	2500 MHz - 2570 MHz	2620 MHz - 2690 MHz	FDD
20	832 MHz – 862 MHz	791 MHz – 821 MHz	