

EXHIBIT 13: DETAILED DESCRIPTION OF THE MODULATION SYSTEM

SECTION 2.1033(c) (13)

For equipment employing digital modulation techniques, a detailed description of the modulation system to be use, including response characteristics of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

Response

The Nokia **FA3WA01AirScale 5G 39GHz mmWave Extension Module** supports the LTE Based 5G New Radio access technology defined in 3GPP, including multiple- input multiple-output (MIMO). The 5G-NR access technologies are being developed and standardized under 3GPP TS 38-x, release 15 for radio type 2-O.

The latest released document detailing modulation was:

3GPP TS 38.211 V15.6.0 (2019-06) *3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Physical channels and modulation* (Release 15)

This above standard incorporates coding for QPSK, 16QAM, and 64QAM so the overall spectral appearance is similar to LTE.

Additional information is in Exhibit 6 of this application.