ANNEX D - Spurious Emissions and Band Edges

[Naming Convention]

Frequency (MHz)_Measurement_(15.209, 30dBc)_Frequency Range (MHz, GHz, Lower Band Edge, Upper Band Edge)_Radio (Lora 1, Lora 2)

Note for 15.209 measurements: below measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2013. The following formula was used in making such conversions:

Above 1GHz: $E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.77$, where E is field strength and d is

distance at which the field strength limit is specified in the applicable requirements. $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for d = 3 m. Straight conversion between E[dBuV/m] and EIRP[dBm] = 107. Thus offset for dBuV/m at 3meters is 95.2-107+antenna gain.

Below 1GHz: above is true in addition to adding ground plane contribution of 4.7dB. thus offset for dBuV/m at 3meters is 95.2-107+4.7+antenna gain.

Note: full 15.209 evaluations were performed with appropriate transmit antennas in chamber for testing above 1GHz. For testing below 1GHz, testing was performed conducted in lieu of radiated per ANSIC63.10-2013 with applying worst case-antenna gain options. Testing below 1GHz was performed into a load in chamber in order to evaluate the cabinet emissions.











