



September 26, 2017

Reference #38659

The following is an updated response to the request from the FCC for clarification on File # 0573-EX-CN-2017 dated August 30, 2017. Note the September 5th, 2017 submission had errors. Updated values are in red.

The **1615.650-1618.110** MHz transmission supports a space-to-space link from the cubesat to the Globalstar satellite network. As such both the transmitter (CubeSat) and receiver (Globalstar satellite) are mobile and located in space. The orbital characteristics are those of the TEMPEST-D cubesat and are listed below.

Spacecraft: TEMPEST-D

Inclination: 52° [ISS]
Apogee: **420km**
Perigee: 400km
Orbital period: 1.62h
Number of satellites in the system: 1
Number of transmitting satellites: 1
Number of transmitting satellites: **1**

Transmitter

Center Frequency: **dynamically assigned via Globalstar between 1615.650MHz and 1618.110MHz**
Bandwidth: **1.25MHz**
3dB beamwidth: 120°
Maximum Antenna Gain: 4.5dBi (Globalstar GAT-17PP)
Polarization: LCP
Maximum transmit power: **446.7mW**
Modulation: QPSK
ITU emission designator: **1M25G1W**