

**EXHIBIT B**

## Certification of Ka-band Antenna Operation

In accordance with Section 25.115(g)(2) of the FCC's rules, GCI certifies that pursuant to Section 25.132(a)(1), each proposed antenna listed in Schedule B of the attached application conforms to the relevant standards in 25.209(a) and (b) and that input power density to the antenna will not exceed the relevant limits in Section 25.212.

As outlined in Schedule B; Particulars of Operations, GCI installations will not exceed input power density limits outlined in 25.212(e):

*An earth station may be routinely licensed for digital transmission in the 28.35-28.6 GHz and/or 29.25-30.0 GHz bands if the input power spectral density into the antenna will not exceed 3.5 dBW/MHz and the application includes certification pursuant to § 25.132(a)(1) of conformance with the antenna gain performance requirements in § 25.209(a) and (b).*

The table below outlines the maximum operating power density for any GCI deployment on Galaxy 30 under this license:

Antenna ID	Maximum EIRP per Carrier (dBW)	Maximum EIRP Density per Carrier (dBW/4kHz)
<b>0.98M</b>	78.09	27.1
<b>1.0M</b>	77.09	26.1
<b>1.25M</b>	79.99	29.0
<b>1.20Ma</b>	79.89	28.9
<b>1.20Mb</b>	79.99	29.0
<b>1.8Ma</b>	82.79	31.8
<b>1.8Mb</b>	82.89	31.9
<b>1.8Mc</b>	82.99	32.0
<b>2.4Ma</b>	84.79	33.8
<b>2.4Mb</b>	84.99	34.0

Further, GCI understands that operation of antennas which do not conform to the standards outlined above are not protected from interference which may result from main lobe and/or side lobe performance characteristics. As such, GCI will only seek protection to the level associated with an antenna operating according to performance standards defined in 25.209 (a) and (b).

DocuSigned by:  
 11/10/2021  
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RF ENGINEER IV

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