

Technical Data for Special Temporary Authority Request

Location (City, State, Coordinates)	Gilbert, AZ Latitude: 33° 21' 55.8" N Longitude: 111° 48' 50.4" W
Site Elevation	372.1 meters
Antenna Diameter	9.2m
Height Above the Ground	10.0m
Antenna Gain Transmit	65.6 dB
Antenna Gain Receive	65.6 dB
Total Input Power at antenna flange	Up to 6 dBW (4 watts)
Total EIRP for all carries (dBW)	71.6 dBW
Transmit Frequency	28.5005 GHz
Receive Frequency Range	19.7-20.2 GHz
Transmit antenna polarization	Left Hand Circular
Receive antenna polarization	Right Hand Circular
Maximum Bandwidth	4kHz
Maximum EIRP per carrier (dBW)	71.6 dBW
Maximum EIRP Density per Carrier (dBW/4kHz)	71.6 dBW/4kHz
Transmit Modulation	Continuous Wave (CW)
Receive Modulation	Continuous Wave (CW)
Range of Satellite Arc E/W Limit	85° W.L to 121° W.L.
Earth Station Azimuth Angle Eastern Limit	137.4°
Antenna Elevation Angle Eastern Limit	41.7°
Earth Station Azimuth Angle Western Limit	196.4°
Antenna Elevation Angle Western Limit	49.9°
Maximum EIRP Density toward the Horizon	-2.5 dBW/4kHz
Will the tests be operated by remote?	No