

GPS Power Control Re-radiating Worksheet Antenna 1	
L1 (1575.42 MHz)	
Site Information	San Antonio Citation Service Center
Antenna ID	A1
Location Description	Center of Hangar
Coordinates, NAD 83, ddd-mm-ss.s	N 029-32-19.2 W 098-28-16.3
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P
Antenna Height AGL (ft)	10
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	103.0
Free Space Loss @ L1	72.21
Amplifier - Gain Control	
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.06

* = Programmed ERP Level - Antenna Gain + 2.148 converted to pW

** = Programmed ERP Level (includes Antenna Gain) converted to pW

*** = Programmed ERP Level (includes Antenna Gain) - Free Space Loss + 2.148