

Engineering Link Analysis Report

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Tower Information

Parameter	Value
ID	ANATEL-7726344
Location	-23.54890, -46.63880
Height (AGL)	42.0 m
Operator	Vivo (Telefonica Brasil S.A.)
Bands	LTE_2600
TX Power	46.0 dBm

Receiver Information

Parameter	Value
Location	-23.56100, -46.62500
Height (AGL)	6.0 m
Antenna Gain	12.0 dBi

Link Budget

Parameter	Value	Unit
TX Power	46.0	dBm
TX Antenna Gain	17.0	dBi
RX Antenna Gain	12.0	dBi
Frequency	2600	MHz
Distance	1.84	km
Free Space Path Loss	106.0	dB
Received Signal (RSSI)	-72.4	dBm
Fresnel Clearance	0.920	ratio
RX Sensitivity Threshold	-95.0	dBm
Link Margin	22.6	dB

Link Analysis Results

Metric	Value
Feasible	YES
Distance	1.84 km
Signal (RSSI)	-72.4 dBm
Fresnel Clearance	0.920
Line of Sight	Clear

Recommendation

LOS feasible — install recommended

Terrain & Fresnel Zone Analysis

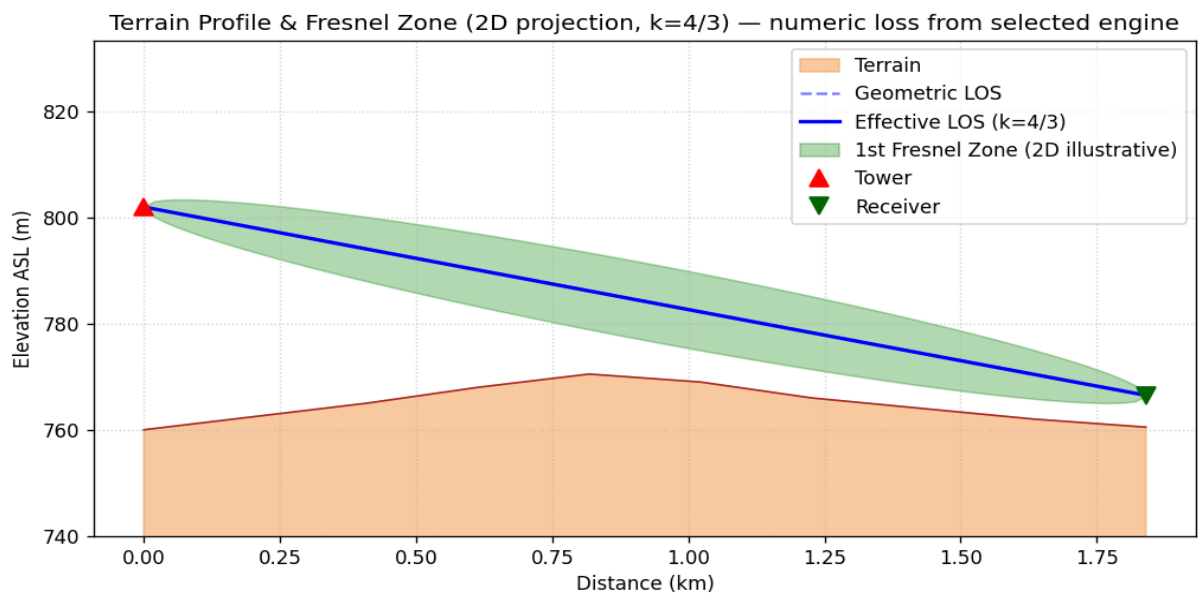


Figure: 2D projection of line-of-sight and first Fresnel zone along path (illustrative). Numeric path loss and clearance values above come from the engine selected in the request (FSPL / ITU-R P.1812 / Sionna RT 3D).