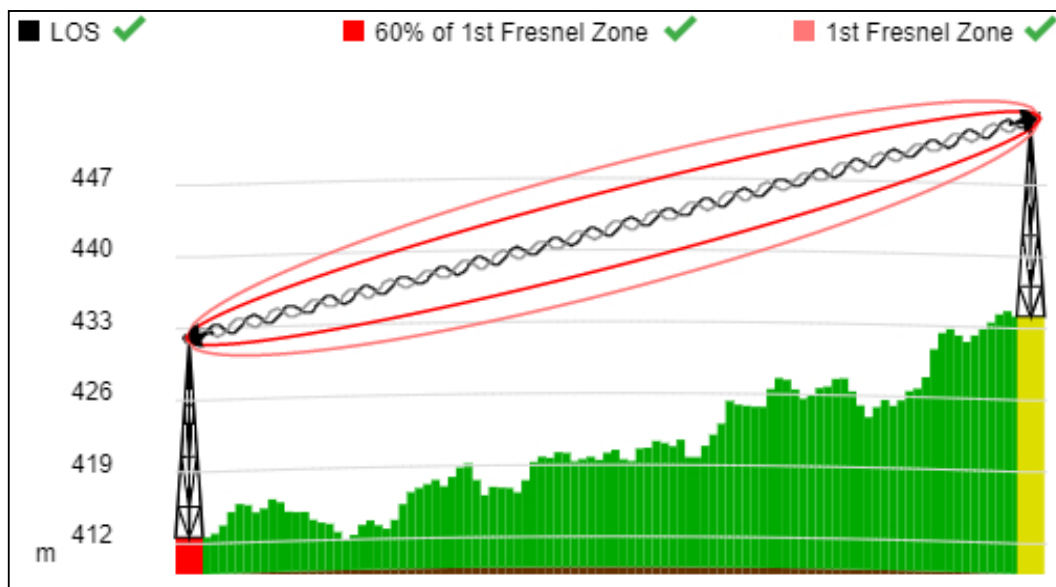
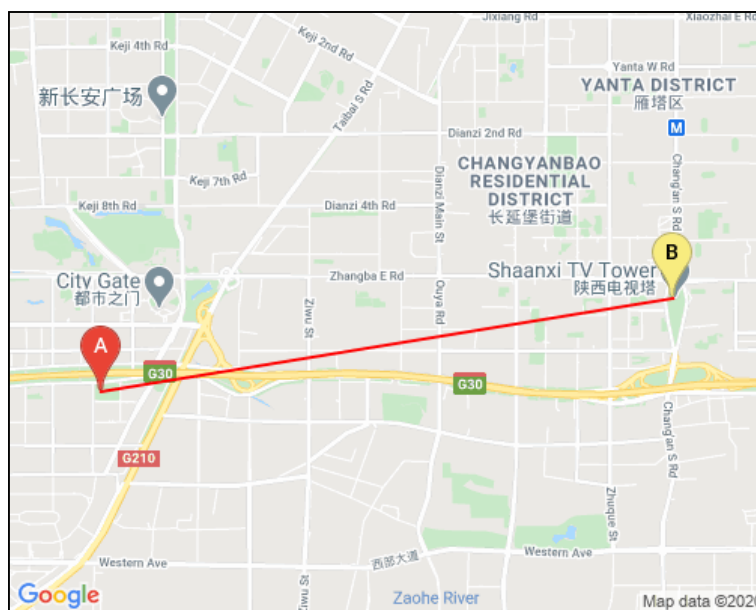


	A	B
Coordinates		
Latitude (°)	34.1876 34° 11' 15.35" N	34.1964 34° 11' 47.03" N
Longitude (°)	108.88091 108° 52' 51.26" E	108.94624 108° 56' 46.48" E
Elevation (m ASL)	413	435
Antenna Height (m)	20	20
Distance (km)	6.1	

Environment	
Rain rate (mm/h)	10
Annual temperature (C°)	30





Hardware		
Version	1+0	
Product	Integra G	
Frequency (GHz)	11	
Antenna manufacturer	Andrew	
Antennas	A	B
Diameter (m)	0.6	0.6
Gain (dBi)	34.5	34.5

Configuration	
Bandwidth (MHz)	40 (ETSI)
Modulation	64QAM
Operational mode	Strong FEC
Capacity (Mbps)	165
Power (dBm)	13
Loses (dB)	2

Signal Quality	RX Threshold	Result
RSL (dBm)	-74.5	-49.03
RSSI (V)		0.82
Fade margin (dB)		25.47
EIRP (dBm)		47.5

Availability		
	Vertical	Horizontal
Multipath Availability (%)	100	100
Rain Availability (%)	100	100
Multipath + Rain Availability (%)	100	100
Errored time per year (HH:MM)	0:00	0:00

Availability per Modulation					
Modulation	Capacity (Mbps)	TX power (dBm)	Availability vert. (%)	Availability hor. (%)	Fade margin (dB)
4QAM Strong FEC	50	26	100	100	48.97
16QAM Strong FEC	98	25	100	100	42.47
32QAM Strong FEC	125	24	100	100	38.47
64QAM Strong FEC	165	23	100	100	35.47
128QAM Strong FEC	198	23	100	100	31.47
256QAM Strong FEC	231	22	100	100	26.97
512QAM Strong FEC	264	21	100	100	22.97
1024QAM Strong FEC	298	18	100	100	16.47
2048QAM Strong FEC	327	17	100	100	11.47

Used ITU recommendations:

- ITU-R P.453-9 "The radio refractive index: its formula and refractivity data"
- ITU-R P.835-3 "Reference standard atmospheres"
- ITU-R P 530-11 "Propagation data and prediction methods required for the design of terrestrial line-of-sight systems"
- ITU-R P.837-4 "Characteristics of precipitation for propagation modeling"
- ITU-R P.676-5 "Attenuation by atmospheric gases"