



LigoWave Link Analysis Report

Date Generated: 7/22/2011 8:13 AM EST

SITE INFORMATION

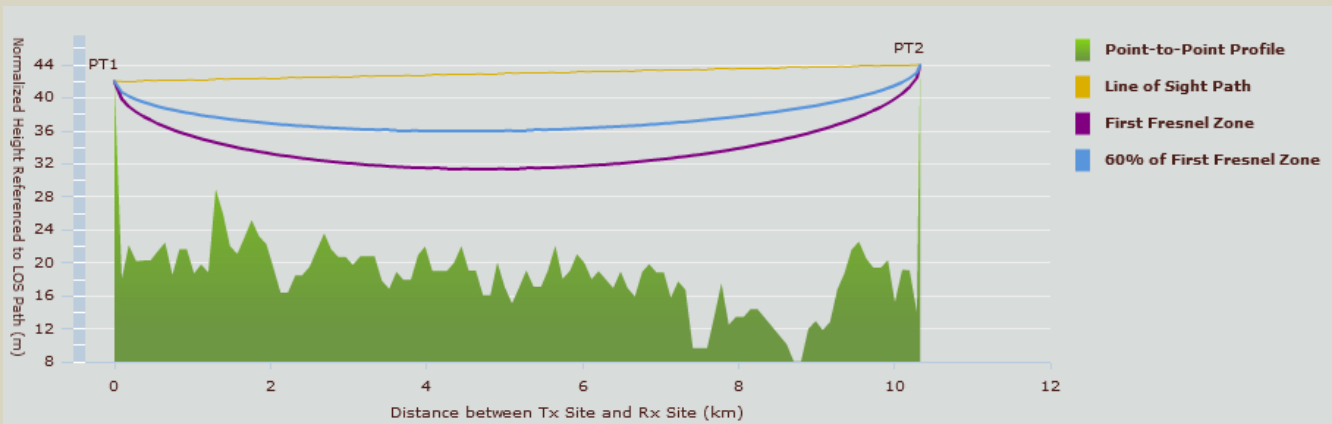
Tx Site Name	: PT1	Rx Site Name	: PT2
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 1° 24' 24.79" S (1.406886)	Latitude	: 1° 18' 50.39" S (1.313997)
Longitude	: 48° 26' 3.34" W (48.434261)	Longitude	: 48° 26' 10.8" W (48.436333)
Tx Power	: 25 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 23 dBi	Ant. Gain	: 23 dBi
Ant. Height	: 18 meters	Ant. Height	: 30 meters

PARAMETERS

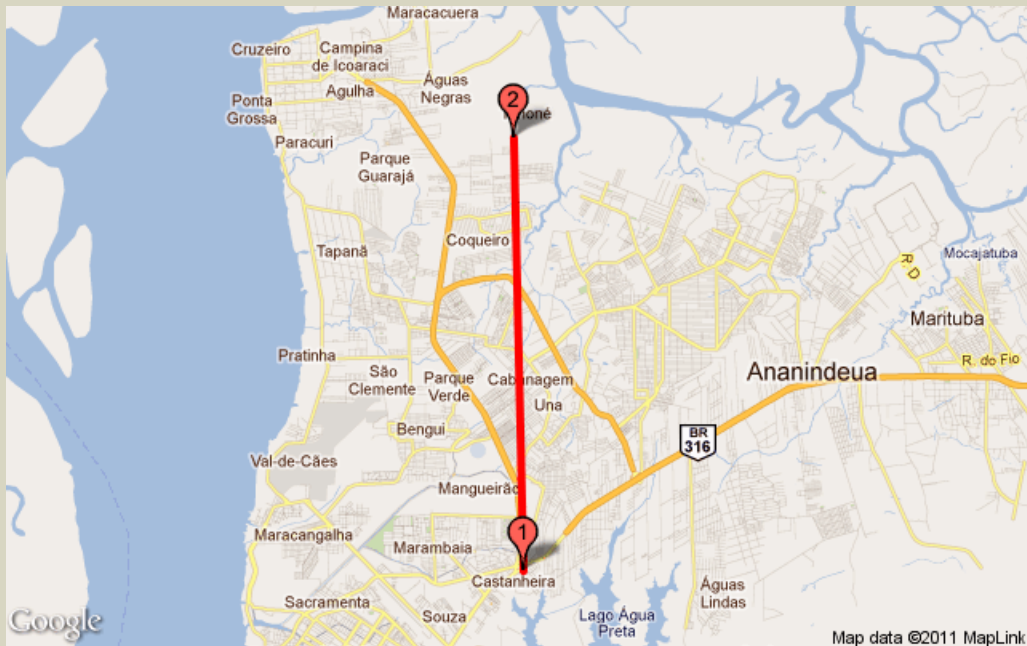
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 128.19 dBm	Thermal Fade Margin	: 36.81 dBm
Rx Signal Level	: -57.19 dBm	Distance between sites	: 10.33 km
EIRP	: 48 dBm	Link availability due to rain	: N/A%



MAP



Path Loss:128.19 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-57.19 dBm	36.81 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-57.19 dBm	33.81 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-57.19 dBm	31.81 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-58.19 dBm	27.81 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-60.19 dBm	21.81 dBm	N/A%	1X1	38 Mbps
64-QAM 2/3	-61.19 dBm	15.81 dBm	N/A%	1X1	44 Mbps
64-QAM 3/4	-62.19 dBm	12.81 dBm	N/A%	1X1	50 Mbps
64-QAM 5/6	-63.19 dBm	9.81 dBm	N/A%	1X1	55 Mbps
BPSK 1/2	-57.19 dBm	36.81 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-57.19 dBm	33.81 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-57.19 dBm	31.81 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-58.19 dBm	27.81 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-60.19 dBm	21.81 dBm	N/A%	2X2	76 Mbps
64-QAM 2/3	-61.19 dBm	15.81 dBm	N/A%	2X2	88 Mbps
64-QAM 3/4	-62.19 dBm	12.81 dBm	N/A%	2X2	100 Mbps
64-QAM 5/6	-63.19 dBm	9.81 dBm	N/A%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-57.19 dBm	36.81 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-57.19 dBm	33.81 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-57.19 dBm	31.81 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-58.19 dBm	27.81 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-60.19 dBm	21.81 dBm	N/A%	1X1	76 Mbps
64-QAM 2/3	-61.19 dBm	15.81 dBm	N/A%	1X1	88 Mbps
64-QAM 3/4	-62.19 dBm	12.81 dBm	N/A%	1X1	100 Mbps
64-QAM 5/6	-63.19 dBm	9.81 dBm	N/A%	1X1	110 Mbps
BPSK 1/2	-57.19 dBm	36.81 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-57.19 dBm	33.81 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-57.19 dBm	31.81 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-58.19 dBm	27.81 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-60.19 dBm	21.81 dBm	N/A%	2X2	115 Mbps
64-QAM 2/3	-61.19 dBm	15.81 dBm	N/A%	2X2	135 Mbps
64-QAM 3/4	-62.19 dBm	12.81 dBm	N/A%	2X2	160 Mbps
64-QAM 5/6	-63.19 dBm	9.81 dBm	N/A%	2X2	180 Mbps