

Date: 25 Mar 2022

Exp 1: Understanding of PathLoss

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| REPORT | | | | |
|-----------------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|
| 1A: Calculation of Received Power | 1B: Calculation of Pathloss Exponent | 1C: Calculation of Carrier Frequency | 1D: Calculation of Receiver Antenna Height | 1E: Calculation of BS Antenna Height |
| Pr(d0): -24.88 dBm | Pr(d0): -18.07 dBm | n: 4.62 | fc: 2.0 Ghz | fc: 2.0 Ghz |
| Dist: 100.0 m | TxPow: 50.0 dBm | TxPow: 50.0 dBm | TxPow: 50.0 dBm | TxPow: 50.0 dBm |
| d0: 89.0m | Dist: 100.0 m | hTx: 30.0 m | hTx: 30.0 m | n: 3.04 |
| | Pr(d): -27.02 dBm | Dist: 100.0 m | Dist: 100.0 m | Dist: 100.0 m |
| | d0:61.0m | Pr(d): -30.22 dBm | Pr(d): 12.87 dBm | Pr(d): 1.37 dBm |
| | | hRx: 1.0 m | n: 3.23 | hRx: 1.0 m |
| Pr(Entered):-25.89 dBm | n(Entered):4.17 | fc(Entered):2.14 GHz | hRx(Entered):6.558 m | hTx(Entered):27.79 m |
| Pr(Actual):-25.89 dBm | n(Actual):4.17 | fc(Actual):2.14 GHz | hRx(Actual):6.56 m | hTx(Actual):27.79 m |

DISCUSSION:-

No discussion added.

(Signature of SANJIT U19EC008)

(Signature of Faculty)

Remarks:-