

## **Abstract**

*Vehicular Ad Hoc Network (VANET) is development from adalah Mobile Ad Hoc Network (MANET) which make a transportation as nodes in network. Node mobility of VANET is ver high and cause changing in VANET's network topology more often. Based on condition of that network, then process of making right route become one of major problem in VANET. There is Position based routing protocol. Among position based routing protocol, there are GPCR routing protocol and GSR routing protocol. Both routing protocols will be simulated and analyzed the performance based on test parameter like throughput, packet delivery ratio, adnd routing overhead in urban environment. After the simulation, the result is obtained that GSR routing protocol produce better performance in throughput and packet delivery ratio. While GPCR routing protocol is better in routing overhead.*

*Keywords : vanet, GSR, GPCR, routing protocol*