LGSPR with (ALMA), vacuum and vacuum, $\exp(\cos)$, $\bar{g} = 0.025, 0.1, 1$, $\lambda = 35 \to 40$
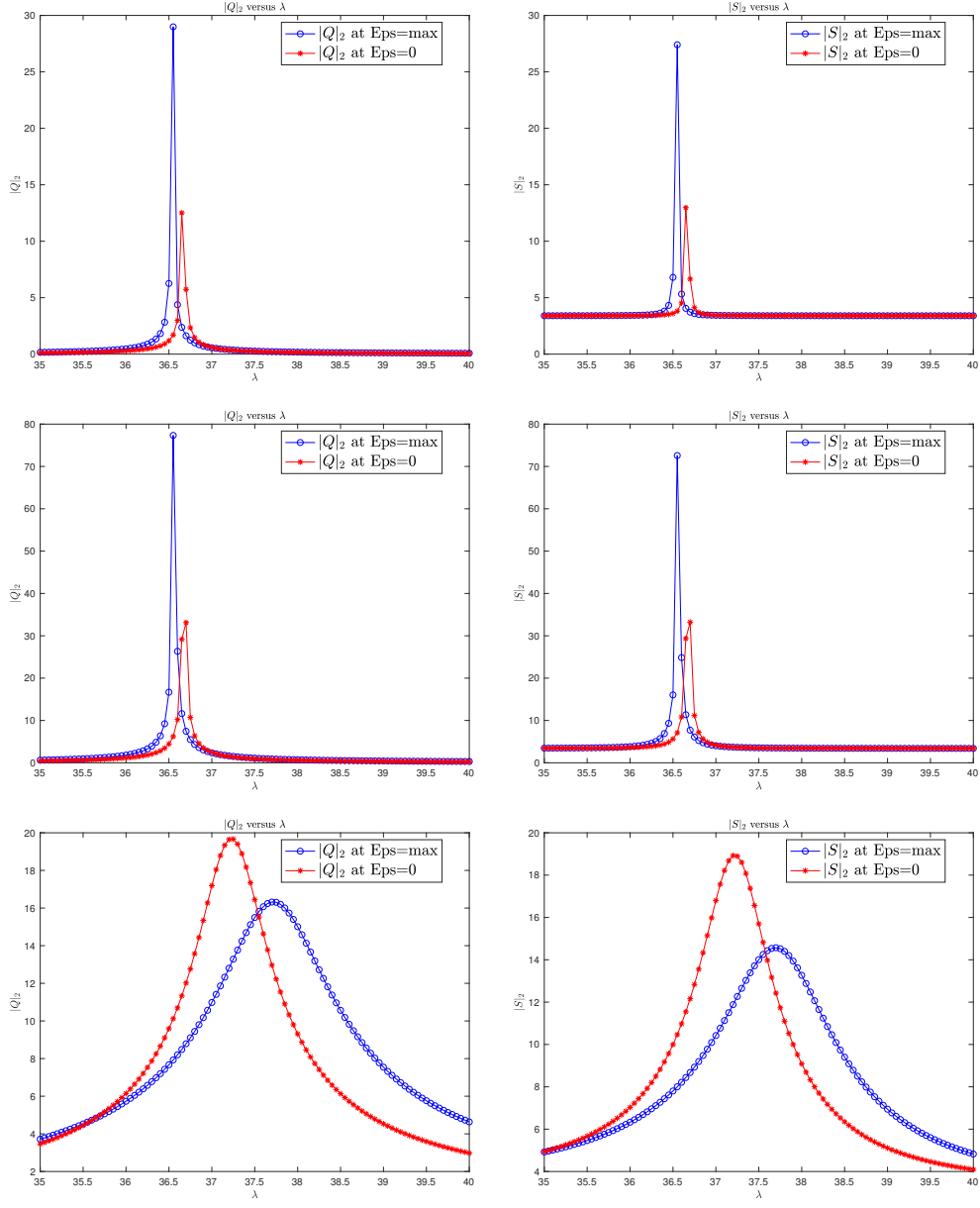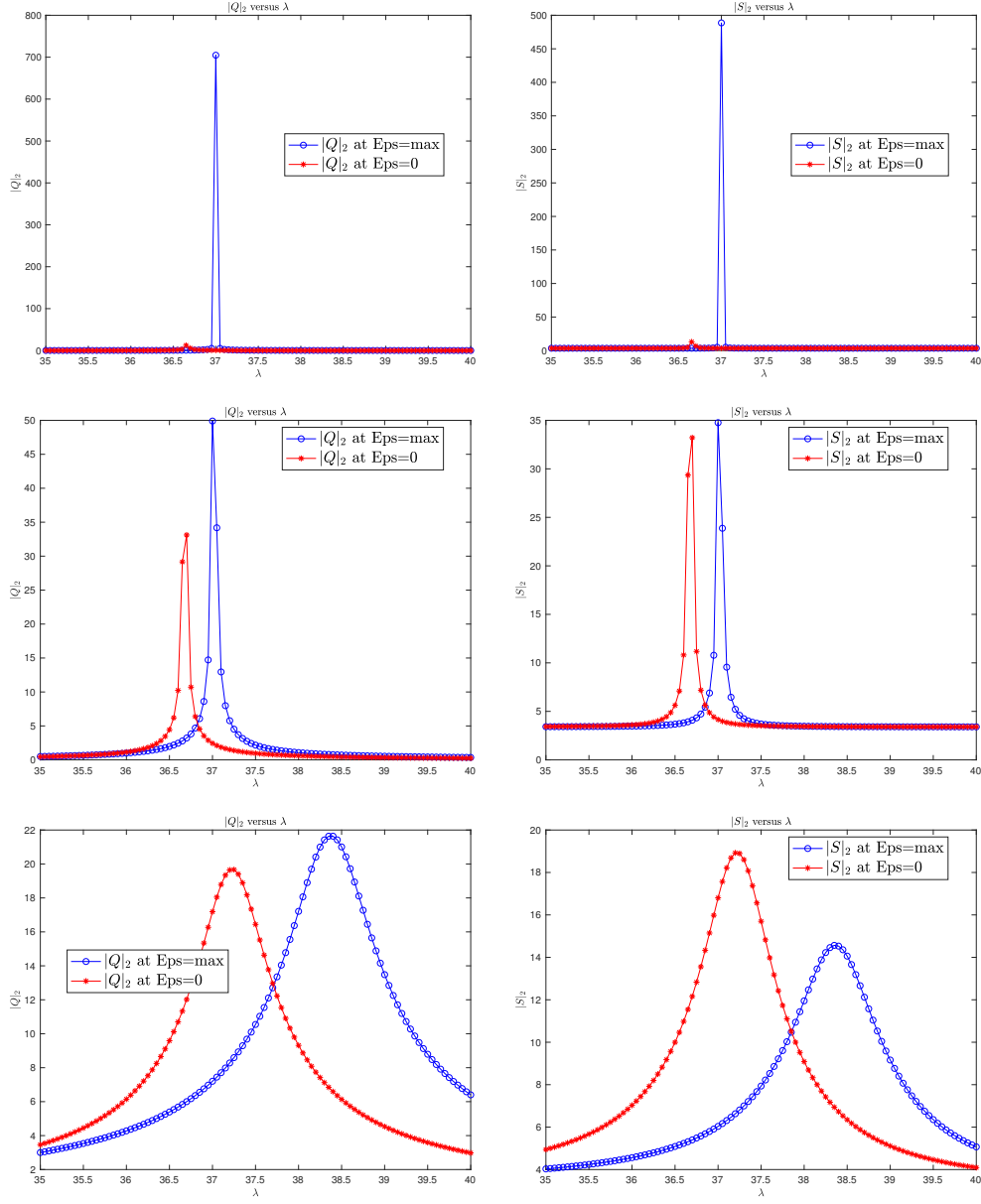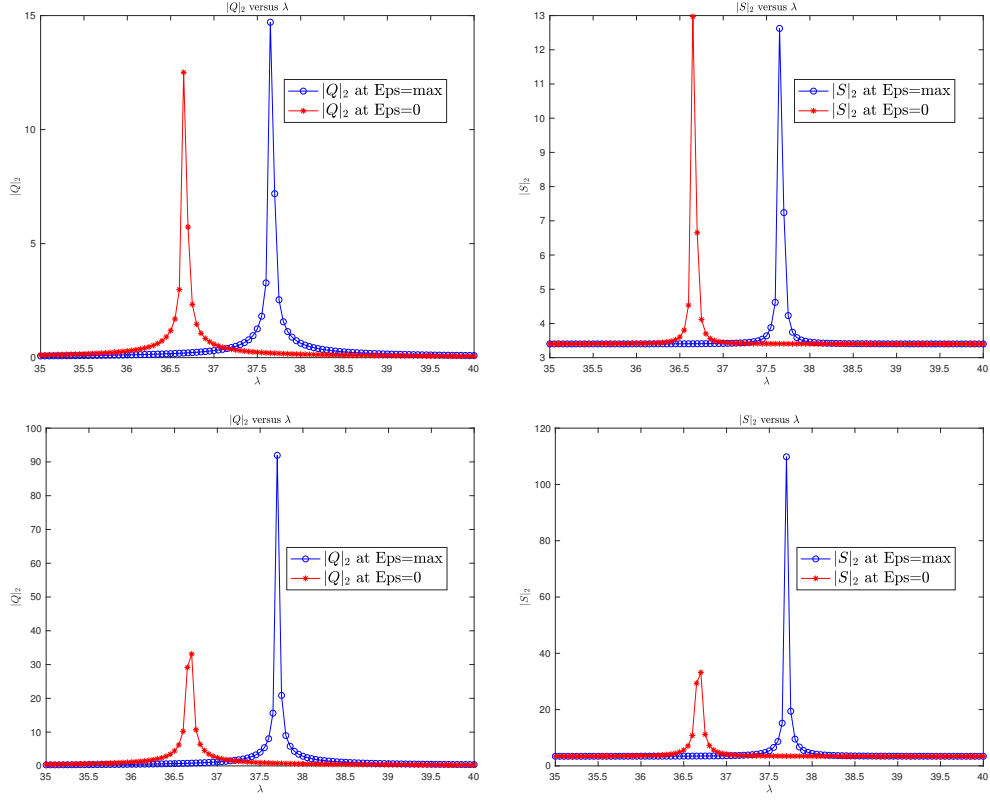
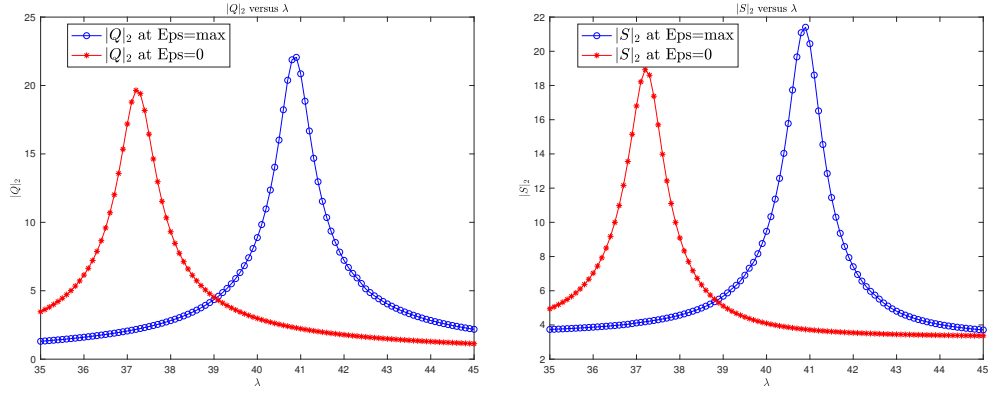# LGSPR with (ALMA), vacuum and vacuum, $\cos(2\theta)$, $\bar{g} = 0.025, 0.1, 1$, $\lambda = 35 \to 40$

LGSPR with (ALMA), vacuum and vacuum, $\cos(4\theta)$, $\bar{g} = 0.025, 0.1$, $\lambda = 35 \rightarrow 40$

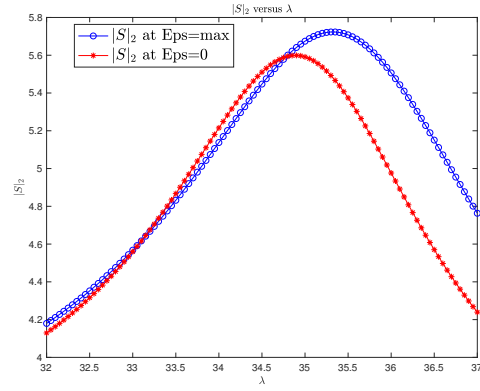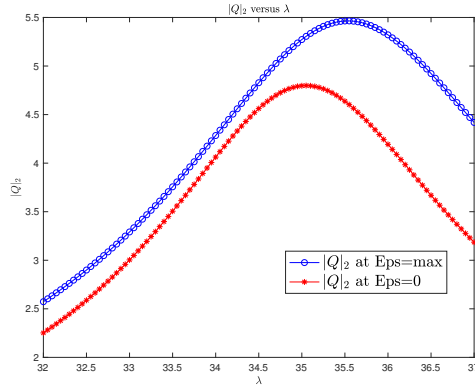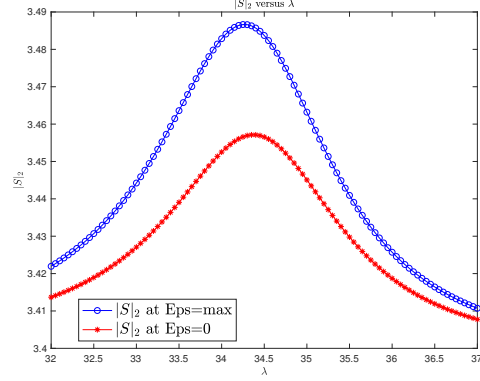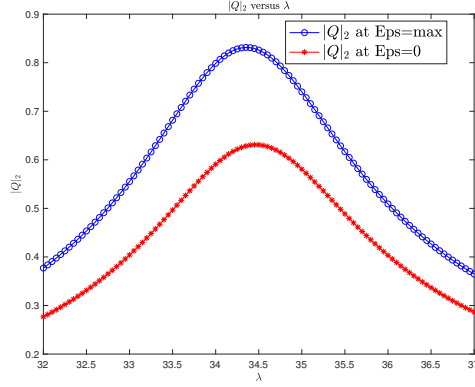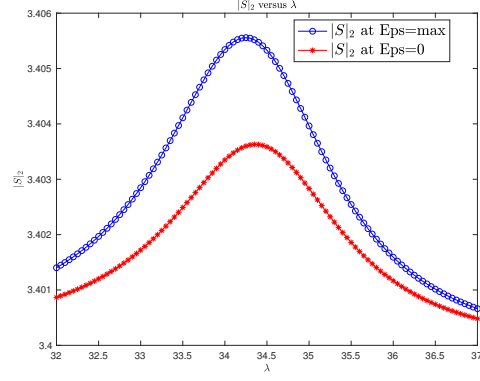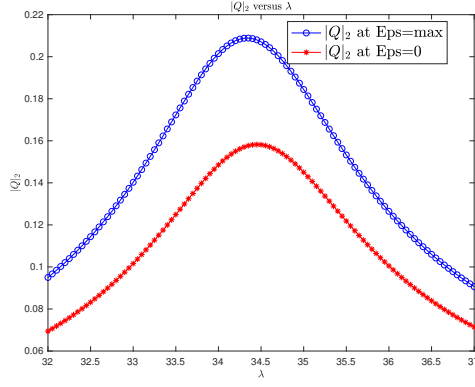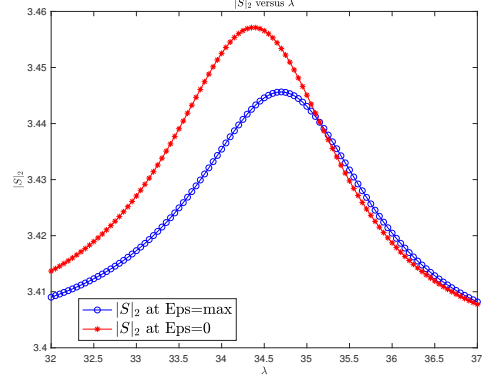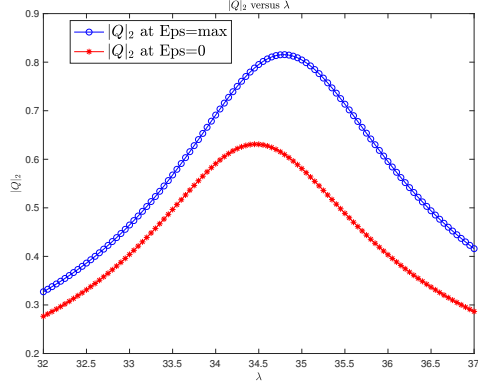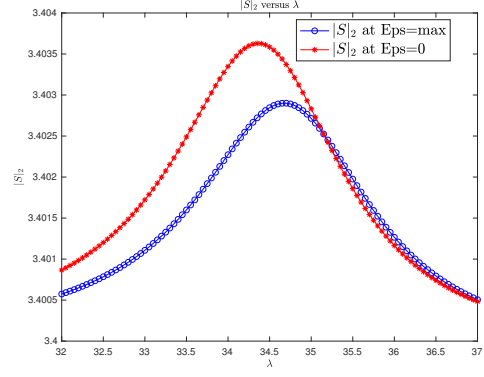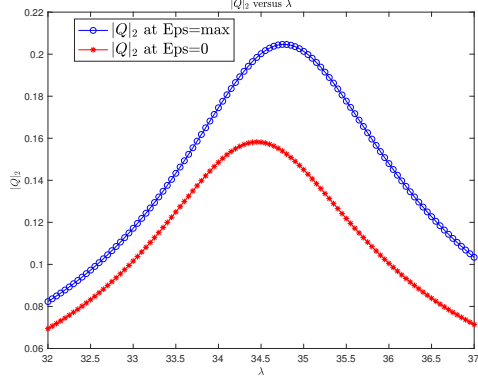**LGSPR with (ALMA), vacuum and vacuum,** $\cos(4\theta)$, $\bar{g} = 1$, $\lambda = 35 \rightarrow 45$
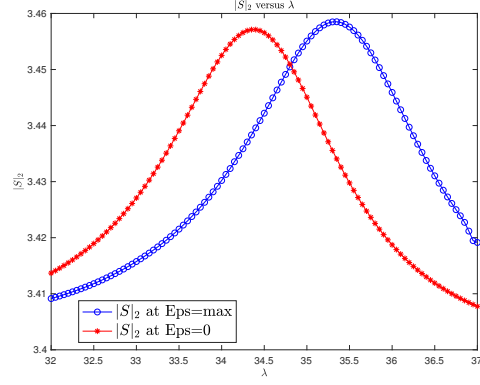
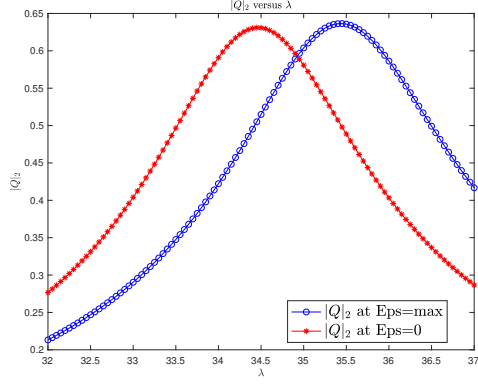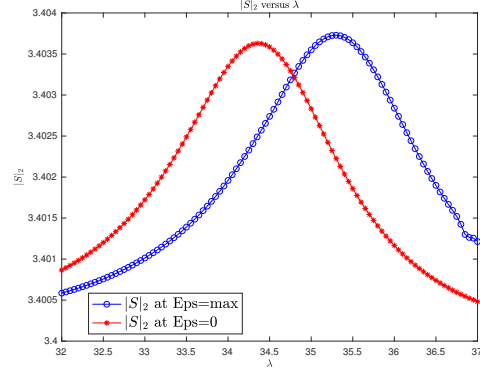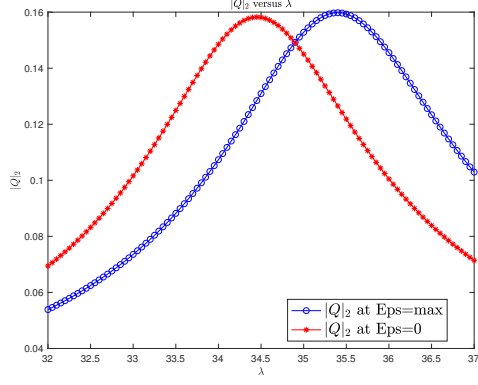**LGSPR with (BFPV), vacuum and vacuum,** $\exp(\cos)$, $\bar{g} = 0.025, 0.1, 1$, $\lambda = 32 \to 37$

LGSPR with (BFPV), vacuum and vacuum, $\cos(2\theta)$, $\bar{g} = 0.025, 0.1, 1$, $\lambda = 32 \to 37$
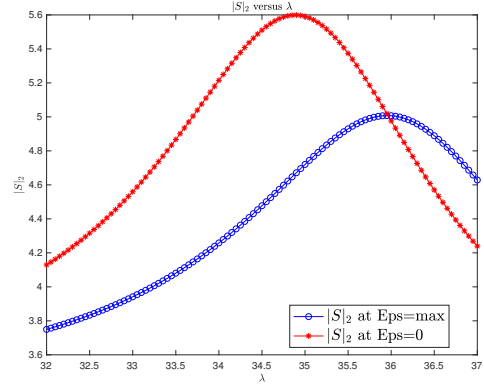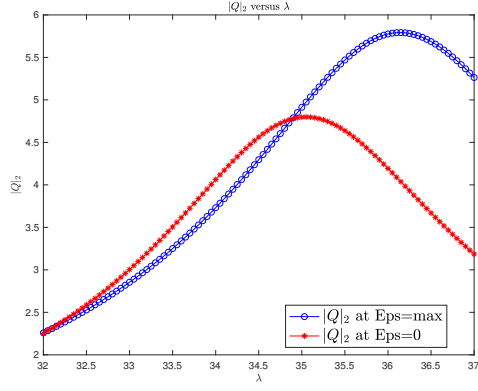
LGSPR with (BFPV), vacuum and vacuum, $\cos(4\theta)$, $\bar{g} = 0.025, 0.5$, $\lambda = 32 \to 37$

$\bar{g} = 1$, $\lambda = 34 \to 40$