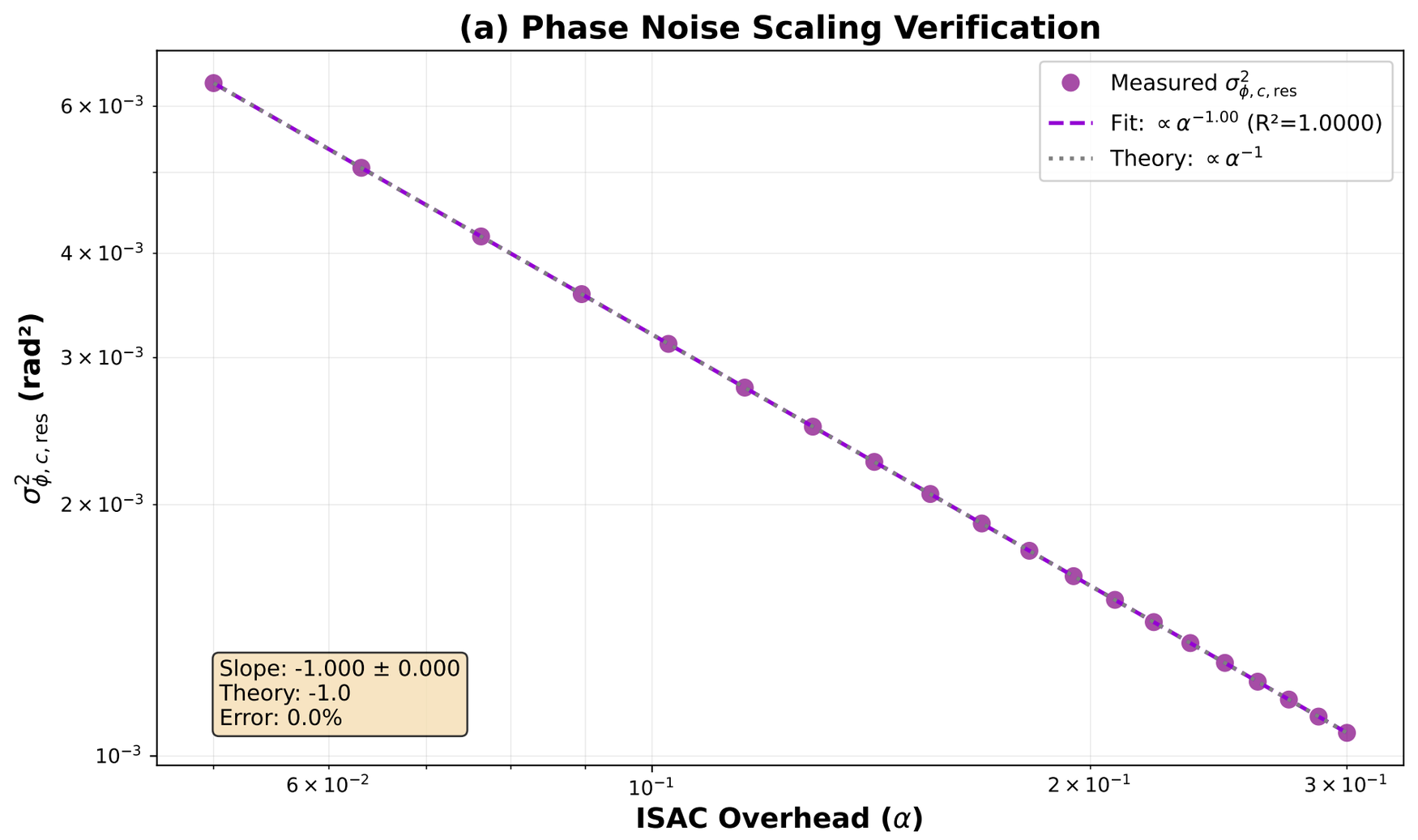
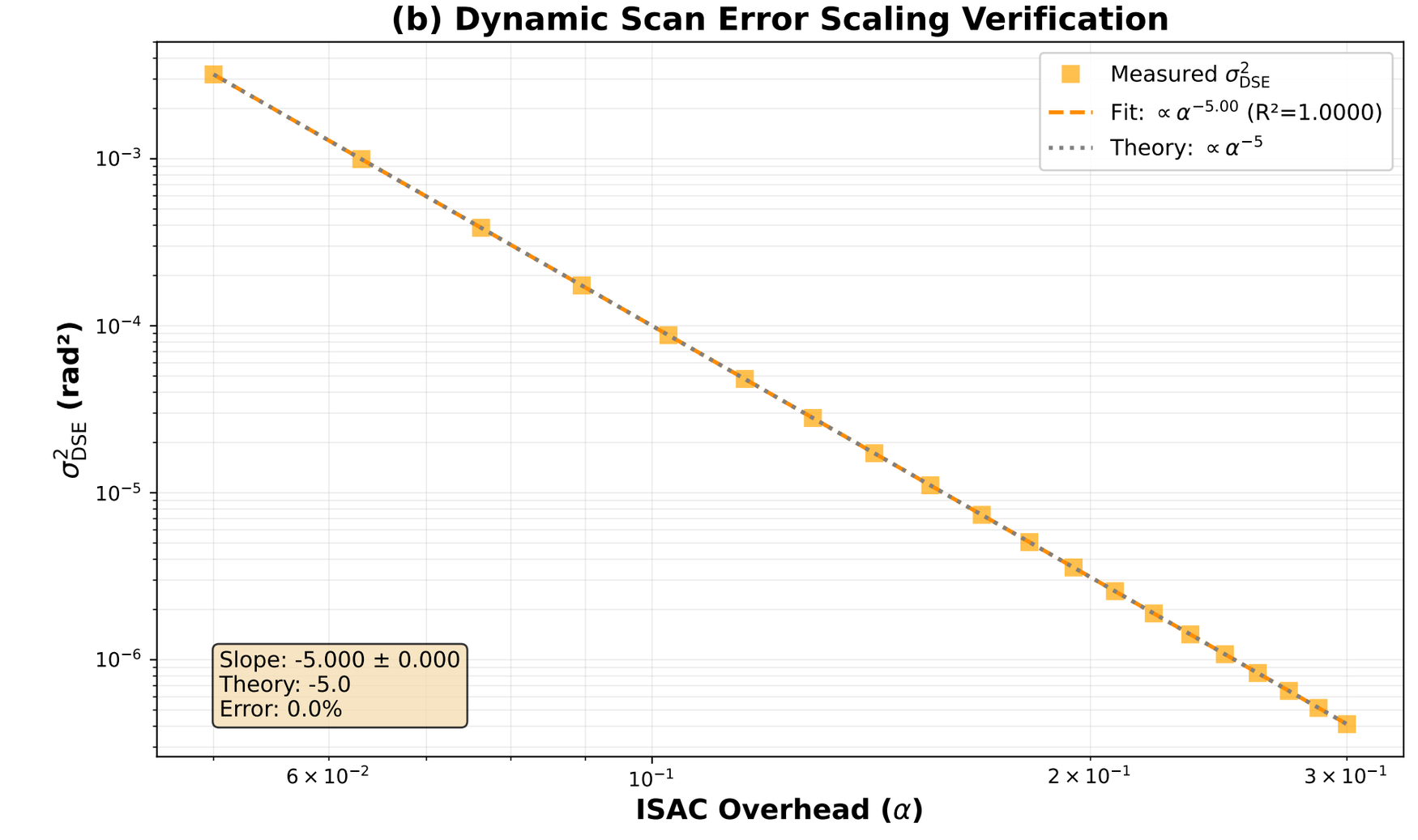

(a) Phase Noise Scaling Verification
Measured $\sigma^2_{\phi,c,\mathrm{res}}$
Fit: $\propto \alpha^{-1.00}$ (R^2=1.0000)
Theory: $\propto \alpha^{-1}$
Slope: -1.000 ± 0.000
Theory: -1.0
Error: 0.0%
$\sigma^2_{\phi,c,\mathrm{res}}$ (rad²)
6×10^{-3}
4×10^{-3}
3×10^{-3}
2×10^{-3}
10^{-3}
6×10^{-2}
10^{-1}
2×10^{-1}
3×10^{-1}
ISAC Overhead (α)


(b) Dynamic Scan Error Scaling Verification
Measured σ^2_{DSE}
Fit: $\propto \alpha^{-5.00}$ (R^2=1.0000)
Theory: $\propto \alpha^{-5}$
Slope: -5.000 ± 0.000
Theory: -5.0
Error: 0.0%
σ^2_{DSE} (rad²)
10^{-3}
10^{-4}
10^{-5}
10^{-6}
6×10^{-2}
10^{-1}
2×10^{-1}
3×10^{-1}
ISAC Overhead (α)