

# **Optimization Report**

#### **General Parameters**

Chip Name: e.g. the 5 qubit chip, unless we have codenames

Affected Qubits: e.g. Q1, Q4

Date and Time: 2021-07-28 11:13:01

Gate: iSWAP Fidelity: 0.99966

Modulation Time: 50.96699 ns Energy Levels per Qubit: 4

### **Signal Parameters**

Signal Shape:

$$\Phi(t) = \Theta + \delta(t)\cos(\omega_{\Phi}t)$$



Approximate Frequency of the Tunable Bus:

$$\omega(\Phi) = \omega_0 \sqrt{\cos(\pi \Phi(t))}$$



Parameters of Optimal Signal:

<mark>Theta</mark>: -0.42124 Delta: 0.03604

Omega\_Phi: 0.56555 GHz

Modulation Time of Delta: 50.96699 ns Rise Time of Modulation (0 to 100%): 25 ns

#### **Circuit Parameters**

Frequencies:

Q1: 4.7381 GHz Q2: 4.1762 GHz Coupler: 8.96 GHz

#### **Anharmonicities:**

Q1: -0.221 GHz Q2: -0.23 GHz Coupler: -0.08 GHz

#### **Coupling Strengths:**

Q1 to Coupler: 0.0545 GHz Q2 to Coupler: 0.05552 GHz

## **Graphs**

