

REPORT  
VER.0

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# Test Procedure of KAGRA photon calibrator

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KAGRA  
Calibration subsystem

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## **Chapter 1**

# **Test Procedure**

### **1.1 Introduction**

### **1.2 Electronics test**

### **1.3 Optical test**

#### **1.3.1 Mode matching and beam quality**

### **1.4 Transfer function measurement**

### **1.5 Noise measurement**

#### **1.5.1 Relative power noise**

#### **1.5.2 Harmonics noise**

### **1.6 Injection test**

### **1.7 Summary**



## Chapter 2

# Result

### 2.1 Run1 (20170109-2017012; KEK)

#### 2.1.1 Member

Yuki, Cory, Bin-Hua, Takaaki, Takahiro

#### 2.1.2 Log: 0109

### 2.2 Run2 (201702; Toyama)

### 2.3 Run3 (201703; KAGRA Y-end)