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RF Exposure Evaluation Report

Report No.: CQASZ20250200224E-02
Applicant: Zhejiang General Light Curtain Co.,LTD.
Address of Applicant: Xin Tang Tou Village, Xin Jie Town, Xiao Shan District, HangZhou City, Zhe Jiang Province, China
Equipment Under Test (EUT):
EUT Name: Touch Screen Transmitter
Test Model No.: PE5101
Model No.: PE5101
Brand Name: Poyal
FCC ID: 2A839-PE5101
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2025-02-14
Date of Test: 2025-02-14 to 2025-04-10
Date of Issue: 2025-04-18
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250200224E-02	Rev.01	Initial report	2025-04-18

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3 General Information

3.1 Client Information

Applicant:	Zhejiang General Light Curtain Co.,LTD.
Address of Applicant:	Xin Tang Tou Village, Xin Jie Town, Xiao Shan District, HangZhou City, Zhe Jiang Province, China
Manufacturer:	Zhejiang General Light Curtain Co.,LTD.
Address of Manufacturer:	Xin Tang Tou Village, Xin Jie Town, Xiao Shan District, HangZhou City, Zhe Jiang Province, China
Factory:	Zhejiang General Light Curtain Co.,LTD.
Address of Factory:	Xin Tang Tou Village, Xin Jie Town, Xiao Shan District, HangZhou City, Zhe Jiang Province, China

3.2 General Description of EUT

Product Name:	Touch Screen Transmitter
Model No.:	PE5101
Test Model No	PE5101
Trade Mark:	Poyal
EUT Supports Radios application:	433.92MHz
Software Version:	V1.0
Hardware Version:	V1.0
Sample Type:	☐ Mobile ☒ Portable
EUT Power Supply:	1*Dry battery:DC 3V

3.3 General Description of 433.92MHz

Operation Frequency:	433.92MHz
Modulation Technique:	Non Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	FSK
Number of Channel:	1
Test Software of EUT:	EUT Key
Antenna Type:	PCB antenna
Antenna Gain:	-9.87dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

447498 D04 Interim General RF Exposure Guidance v01

3.2. SAR Test Reduction Guidance

SAR test reduction procedures [Glossary] allow using a particular set of test data as representative of other, similar, test conditions. This may be applied for data within different test positions (e.g. body, head, extremity), wireless modes (e.g. Wi-Fi, cellular), and frequency bands. This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the mid-band or highest output power channel meets any of the following conditions.

4.1.2 Limits

2.1.2 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

4.1.3 EUT RF Exposure

Measurement Data

$$EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$$

where

$EIRP$ is the equivalent isotropically radiated power, in dBm
 E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m
 d_{Meas} is the measurement distance, in m

Frequency	EIRP (dBm)	ERP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
433.92MHz	-23.33	-25.48	0.003	1

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250200224E-01.

*** END OF REPORT ***