

# 1 Cover Page

## RF MPE REPORT

**Application No.:** KSEM2107001162CR  
**FCC ID:** 2ADTD-KAB673FBQR  
**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Applicant:** No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Manufacturer:** No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
**Factory:** 1.Hangzhou Hikvision Technology Co., Ltd.  
 2.Hangzhou Hikvision Electronics Co., Ltd.  
 3.Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Factory:** 1.No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy,Zhejiang,310052,China.  
 2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China.  
 3.No.555 Qianmo Road, Binjiang District Hangzhou 310052, China.

**Equipment Under Test (EUT):**  
**EUT Name:** Peripheral Module  
**Model No.:** DS-KAB673-FBQR  
**Add Model No.:** Refer for page 2  
**Standard(s) :** FCC Rules 47 CFR §2.1093  
 KDB447498 D01 General RF Exposure Guidance v06  
**Trade mark:** HIKVISION  
**Date of Receipt:** 2021-07-22  
**Date of Test:** 2021-09-10 to 2021-09-27  
**Date of Issue:** 2021-09-27

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin  
 EMC Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Add Model No:

DS-KAB673-FB,DS-KAB673-BQR,DS-KAB673-B,DSKAB673-FBQRUHK,DS-KAB673-FBQRCKV,DS-KAB673-FBQRUVS,DS-KAB673-FBQRKVO,DS-KAB673-FBQRHUN,DS-KAB673-FBUHK,DS-KAB673-FBCKV,DSKAB673-FBUVS,DS-KAB673-FBKVO,DS-KAB673-FBHUN,DS-KAB673-BQRUHK,DS-KAB673-BQRCKV,DS-KAB673-BQRUVS,DS-KAB673-BQRKVO,DSKAB673-BQRHUN,DS-KAB673-BUHK,DS-KAB673-BCKV,DS-KAB673-BUVS,DS-KAB673-BKVO,DS-KAB673-BHUN



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-09-27	/

Authorized for issue by:			
		Damon Zhou	
		Damon Zhou / Project Engineer	
		Eric Lin	
		Eric Lin / Reviewer	



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 5V by USB Port
---------------	-------------------

#### 3.2 Technical Specifications

##### BLE

Antenna Gain:	-5.0dBi(Provided by manufacturer)
Antenna Type:	PCB Antenna
Bluetooth Version:	V4.2 LE
Channel Spacing:	2MHz
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz



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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



## 4 Test Standards and Limits

### 4.1 FCC Radiofrequency radiation exposure limits:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max power of channel})/(\text{min test separation distance})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion. For 2.4G band device, the limit of worse case is

$$P_{\text{max}} \leq 3.0 \cdot D_{\text{min}} / \sqrt{f} = 3.0 \cdot 5 / \sqrt{2.480} = 9.525 \text{mW}$$



## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSEM210700116201

#### BLE

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
BLE	2402	-1.44	0.72
	2440	-1.04	<b>0.79</b>
	2480	-1.60	0.69

### 5.2 MPE Calculation

The Max Conducted Peak Output Power is 0.79mW. since the antenna again is lower than 0dBi.

The Max Conducted Peak Output Power 0.79mW < 9.525mW

So the SAR report is not required.

**--End of the Report--**



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