



# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Report No.: SHEM160800532303  
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## 1 Cover Page

# RF Exposure REPORT

Application No.:	SHEM1608005323CR
Applicant:	HCS (Suzhou) Limited
FCC ID:	2AGOFRC360
Equipment Under Test (EUT): <b>NOTE:</b> The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Remote Control
Model No.(EUT):	RC3602301/01BR
Standards:	FCC PART 15 Subpart C: 2015
Date of Receipt:	2016-08-10
Date of Test:	2016-08-10 to 2016-08-18
Date of Issue:	2016-08-18
Test Result:	<b>Pass*</b>

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parham Zhan  
E&E Section Manager  
SGS-CSTC (Shanghai) Co., Ltd.

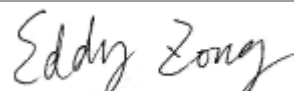

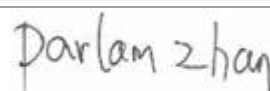
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2016-08-18	/	Original

Authorized for issue by:			
Engineer	Eddy Zong		
	Print Name		
Clerk	Vincent Zhu		
	Print Name		
Reviewer	Parlam Zhan		
	Print Name		

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## 4 General Information

### 4.1 Client Information

Applicant:	HCS (Suzhou) Limited
Address of Applicant:	19F-20F, Building B-3 <sup>rd</sup> , No.209 Zhuyuan Road, New District, Suzhou China
Manufacturer:	HCS (Suzhou) Limited
Address of Manufacturer:	19F-20F, Building B-3 <sup>rd</sup> , No.209 Zhuyuan Road, New District, Suzhou China
Factory:	WuJiang Century Billion Electronic Technology Co., Ltd
Address of Factory:	No.149, Tuncun West Road, Tongli Town, Wujiang County, Suzhou City, Jiangsu Province, P.R.China

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

Product Description:	Portable product with BT function
Battery:	DC 3V by 4* AAA.LR03 batteries for transmitter

### 4.3 Technical Specifications

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.1 BT Single mode
Modulation Technique:	FHSS (GFSK, $\pi/4$ QPSK ,8DPSK)
Number of Channel:	79
Antenna Type:	Monopole
Antenna Gain:	-1.7dBi

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

#### 4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 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. Date of expiry: 2017-07-14.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.

## 5 Test Standards and Limits

### 5.1 FCC Radiofrequency radiation exposure limits:

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in KDB447498 D01 section 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	(mW)
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

## 6 Measurement and Calculation

### 6.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM160800532302.

**Test Data:**

Test Mode	Channel	Peak Power (dBm)	Peak Power (mW)
GFSK	2402	6.83	4.82
	2441	6.98	4.99
	2480	6.58	4.55
$\pi/4$ DQPSK	2402	6.92	4.92
	2441	<b>7.19</b>	<b>5.24</b>
	2480	7.04	5.06
8DPSK	2402	6.0	3.98
	2441	6.25	4.22
	2480	5.91	3.90

### 6.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 5.24mW. The best case gain of the antenna is -1.7dBi.

-1.7dBi logarithmic terms convert to numeric result is nearly 0.68

According to the formula. calculate the EIRP test result:

$$\text{EIRP} = P \times G = 5.24 \text{ mW} \times 0.68 = 3.56 \text{ mW} < 10 \text{ mW}$$

So the SAR report is not required.

## 7 EUT Constructional Details

Refer to the < RC3602301/01BR \_External Photos > & < RC3602301/01BR \_Internal Photos >.

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