TEST REPORT

Report Number. ..... :	90677-25-72-25-PP003	
Date of issue..... :	July. 24, 2025	
Prepared by (+signature)..... :	Susan	Susan Huo
Reviewer (+signature)..... :	Duke	Duke Chen
Approved by (+signature) ..... :	Jason	Jason gao
Testing Laboratory name ..... :	SLG-CPC Testlaboratory Co., Ltd.	
Address..... :	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China	
Applicant's name ..... :	Guangdong Quanjia Group Co., Ltd.	
Address..... :	Floor 8, Building A, No. 2, Liheyouke Innovation Base, Zhenlong Town, Huiyang District, Huizhou City	
Manufacturer's name ..... :	Guangdong Quanjia Group Co., Ltd.	
Address..... :	Floor 8, Building A, No. 2, Liheyouke Innovation Base, Zhenlong Town, Huiyang District, Huizhou City	
Factory's name ..... :	Guangdong Quanjia Group Co., Ltd.	
Address..... :	Floor 8, Building A, No. 2, Liheyouke Innovation Base, Zhenlong Town, Huiyang District, Huizhou City	
Standard(s) ..... :	§15.247(i), §2.1093	
Test item description ..... :	Tri-mode mechanical keyboard	
Trade Mark ..... :	K KAVLORN	
Model/Type reference ..... :	KL-67A/KL-67B/KL-67C/KL-67D/KL-67E	
FCC ID ..... :	2BQVO-KL65-68	
Date of receipt of test item..... :	July. 15, 2025	
Date (s) of performance of test:	July. 16, 2025 to July. 23, 2025	
Summary of Test Results ..... :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
General disclaimer: This report shall not be reproduced except in full, without the written approval of SLG-CPC Testlaboratory Co., Ltd. The test results in the report only apply to the tested sample.		

Address:No.11,WuSongRoad,
DongchengDistrictDongguan,
Guangdong Province, 523117, People's Republic of China
Tel: 86-769-22607797
Fax: 86-769-22607907
http://www.cpcteam.com

Table of Contents

Address:No.11,WuSongRoad,
DongchengDistrictDongguan,
Guangdong Province, 523117, People's Republic of China
Tel: 86-769-22607797
Fax: 86-769-22607907
http://www.cpcteam.com

Modified History

Report No.	Revision Date	Summary
90677-25-72-25-PP003	July. 24, 2025	Original Report

Address:No.11,WuSongRoad,
DongchengDistrictDongguan,
Guangdong Province, 523117, People's Republic of China
Tel: 86-769-22607797
Fax: 86-769-22607907
http://www.cpcteam.com

1. EUT Specification

Characteristics	Description
Product:	Tri-mode mechanical keyboard
Model Number:	KL-67A/KL-67B/KL-67C/KL-67D/KL-67E (All modules are based on the same design principle and PCB. The different models are just to distinguish the colors, Here we choose KL-67A as the test EUT))
Device Type:	Bluetooth V5.2
Data Rate:	DTS: 1Mbps for GFSK modulation
Modulation:	DTS: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BLE: 40 channels 2.4G:32 channels
Transmit Power Max:	BLE: -9.18 dBm 2.4G: 93.10dBuV/m@3m
Antenna Gain:	0.11 dBi
Power supply:	Input: DC 5V Battery Capacity: 3.7V 3000mAh
Evaluation applied:	☐MPE Evaluation ☒SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

3. Measurement Result

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	BLE	-9.18	±1	-8.18	0.0471321	3
2440	BLE	-9.65	±1	-8.65	0.0426309	3
2480	BLE	-9.47	±1	-8.47	0.0447977	3

Transmit Frequency (MHz)	Mode	Field strength (dBuV/m)	Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2411	GFSK	92.46	-2.70	±1	-1.70	0.2095639	3
2443	GFSK	91.69	-3.47	±1	-2.47	0.1768988	3
2473	GFSK	93.10	-2.06	±1	-1.06	0.2467492	3

Power=E_{Meas} +20log(d_{Meas})-104.7
Where
Power is the equivalent isotropicallyradiated power. in dBm
E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m
d_{Meas} is the measurement distance, in m. d_{Meas} =3m

The two modes cannot work at the same time.

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

声 明
Statement

1. 本报告无授权批准人签字及盖章无效；
   This report is invalid without the signature and seal of the authorized approver.

2. 未经许可本报告不得部分复制；
   This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责；
   The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用；
   The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

5. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，本实验室不承担相关责任，特别约定、标准或规范中有明确规定的除外；
   The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, SLG-CPC shall not assume any responsibility.

6. 对本检测报告若有异议，请于收到报告之日起 20 日内提出；
   Objections shall be raised within 20 days from the date receiving the report.

Address:No.11,WuSongRoad,
DongchengDistrictDongguan,
Guangdong Province, 523117, People's Republic of China
Tel: 86-769-22607797
Fax: 86-769-22607907
http://www.cpcteam.com