TEST REPORT

Product Name	:	SmartLoop
Brand Mark	:	Keystone Technologies
Model No.	:	KTSL-FC1-UV-KO,KTSL-FC1-UV-KO-PIR, KTSL-HBFC1-UV-KO-PIR,KTSL-WS1-B-SG KTSL-TK1-USB
FCC ID	:	2AV9KKTSL01
Report Number	:	BLA-EMC-202005-A74-02
Date of Sample Receipt	:	2020/5/27
Date of Test	:	2020/5/27 to 2020/6/11
Date of Issue	:	2020/6/11
Test Standard	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result	:	Pass

Prepared for:

Keystone Technologies

2750 Morris Rd, Lansdale PA 19446

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

IOT Test Centre of BlueAsia

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen,China

TEL: +86-755-28682673

FAX: +86-755-28682673

Compiled by: Ben Zong

Review by: Sweet. Liang

Approved by:

Date: 2020/6/11

1.1 RF Exposure Compliance Requirement

1.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

1.1.2 Limits

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)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation[17]

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

2 EUT RF EXPOSURE EVALUATION

Operational Mode:BLE（GFSK worst case）						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power(dBm)	Maximum tune-up Power(mW)	Calculated value	Exclusion threshold
2402MHz	-2.23	±1	-1.23	0.75	0.23	3
2442MHz	-3.17	±1	-2.17	0.61	0.19	3
2480MHz	-4.36	±1	-3.36	0.46	0.15	3
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----

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