

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:

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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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot$$

$$\sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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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