

FCC SAR Exclusion Report

FCC ID: 2APDTA02BT

Report No. : BTL-FCCP-2-2011T130
Equipment : Aquarius - 02 over ear for music ANC Earphone
Model Name : A02BT
Brand Name : IONE
Applicant : IONE ELECTRONIC TECHNOLOGY CO.,LTD. TAIWAN BRANCH
Address : 8F-2, #75, Sec. 1, Hsin Tai Wu Rd. Hsichih, Taipei Hsien, Taiwan, R.O.C.

FCC Rule Part(s) : FCC Part 2, Subpart J (§2.1093)
KDB 447498 D01 General RF Exposure Guidance v06

Date of Receipt : 2020/11/25
Date of Test : 2020/11/25 ~ 2020/12/23
Issued Date : 2021/1/29

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|---|-------------|
| R00 | Original Issue. | 2021/1/7 |
| R01 | Revised Typo. | 2021/1/11 |
| R02 | Revised report to address TCB's comments. | 2021/1/15 |
| R03 | Revised report to address TCB's comments. | 2021/1/29 |

According to KDB 447498 section 4.3.1 a), the 1-g SAR test exclusion thresholds at test separation distance \leq 50 mm are determined by:

$$\{ [(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \} \leq 3.0$$

The maximum tune up power is 0 dBm +/- 2dB, therefore the highest tune-up powers is

$$2.0 \text{ dBm} \quad (1.58 \text{ mW}) \quad @ \text{ 2402 MHz}$$

When the minimum test separation distance is $<$ 50 mm, a distance of 5 mm according to e) in section 4.1 is applied to determine SAR test exclusion.

So,

$$\boxed{ (2\text{mW} / 5\text{mm}) * (2.402\text{GHz} ^{0.5}) = 0.5 }$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.5 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body.

End of Test Report