

# FCC SAR Exclusion Report

## FCC ID: UFOOPC3301I

**Report No.** : BTL-FCCP-2-2107T063  
**Equipment** : Handheld Bluetooth 1D CCD Scanner  
**Model Name** : OPC-3301i  
**Brand Name** : OPTICON  
**Applicant** : OPTOELECTRONICS Co., Ltd.  
**Address** : 4-12-17, Tsukagoshi, Warabi-shi, Saitama Pref., 335-0002 Japan  
**Manufacturer** : OPTOELECTRONICS Co., Ltd.  
**Address** : 4-12-17, Tsukagoshi, Warabi-shi, Saitama Pref., 335-0002 Japan

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

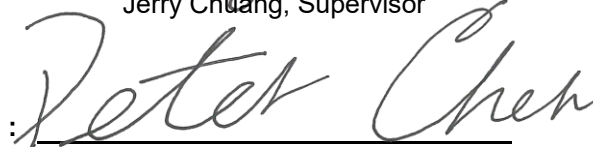
**Date of Receipt** : 2021/7/16  
**Date of Test** : 2021/7/16~ 2021/10/13  
**Issued Date** : 2022/3/1

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

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**REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2107T063	R00	Original Report.	2022/3/1	Valid

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 -2 dBm +/- 1dB, therefore the highest tune-up powers is

$$-1.0 \text{ dBm} \quad (0.79 \text{ mW}) \quad @ \text{ 2402 MHz}$$

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,

$$( 0.8\text{mW} / 5\text{mm} ) * ( 2.402\text{GHz} ^{0.5} ) = 0.2$$

$$[( \text{max. power of channel, including tune-up tolerance, mW} ) / ( \text{min. test separation distance, mm} )] * [\sqrt{f(\text{GHz})}] = 0.2 < 3.0$$

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

**End of Test Report**