

# RF Exposure Evaluation

## FCC ID: 2AFIH-2930

### 1. Client Information

**Applicant** : Brand New Days Limited  
**Address** : Flat B, 6/F, Tong Yuen Factory Building, 505 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong  
**Manufacturer** : Shenzhen Gtide Technology Co.,Ltd  
**Address** : 5th Building C, 6 Block, Dongcai Industrial Zone, Gushu,Baoan District, Shenzhen, China

### 2. General Description of EUT

|                               |   |                                                                                   |                             |
|-------------------------------|---|-----------------------------------------------------------------------------------|-----------------------------|
| <b>EUT Name</b>               | : | Folding wireless keyboard                                                         |                             |
| <b>Models No.</b>             | : | 2930                                                                              |                             |
| <b>Brand Name</b>             | : | X                                                                                 |                             |
| <b>Model Difference</b>       | : | N/A                                                                               |                             |
| <b>Product Description</b>    | : | Operation Frequency:<br>Bluetooth:2402~2480MHz                                    |                             |
|                               |   | Number of Channel:                                                                | Bluetooth:79 Channels       |
|                               |   | Max Peak Output Power:                                                            | Bluetooth: -11.89 dBm(GFSK) |
|                               |   | Antenna Gain:                                                                     | 0 dBi PCB Antenna           |
|                               |   | Modulation Type:                                                                  | GFSK (1 Mbps)               |
| <b>Power Supply</b>           | : | DC Voltage supplied from Host System by USB cable.<br>DC power by Li-ion Battery. |                             |
| <b>Power Rating</b>           | : | DC 5.0V by USB cable.<br>DC 3.7V 110mAh Li-ion Battery.                           |                             |
| <b>Connecting I/O Port(S)</b> | : | Please refer to the User's Manual                                                 |                             |

#### Note:

More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

- $$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR}$$

- $$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

- 2.

- Calculation:

| Test separation: 5mm  |                       |                              |                                     |                   |                 |
|-----------------------|-----------------------|------------------------------|-------------------------------------|-------------------|-----------------|
| Bluetooth Mode (GFSK) |                       |                              |                                     |                   |                 |
| Frequency (GHz)       | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402                 | -11.89                | $\pm 0.5$                    | 0.073                               | 0.023             | 3.0             |
| 2.441                 | -12.01                | $\pm 0.5$                    | 0.071                               | 0.022             | 3.0             |
| 2.480                 | -12.92                | $\pm 0.5$                    | 0.057                               | 0.018             | 3.0             |

So standalone SAR measurements are not required.