

# Maximum Permissible Exposure Evaluation

## FCC ID: 2ANYB-SCORE7

### 1. Client Information

|                     |   |                                                                                                               |
|---------------------|---|---------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>    | : | Advanced Technologies Group, LLC                                                                              |
| <b>Address</b>      | : | 1601 48th St #220, West Des Moines, IA 50266, USA                                                             |
| <b>Manufacturer</b> | : | Shenzhen Ployer Electronics Co., Ltd                                                                          |
| <b>Address</b>      | : | Building 8, Dongfang Jianfu Yusheng Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, 518000, China. |

### 2. General Description of EUT

|                               |   |                                                                                                                                                         |
|-------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Name</b>               | : | SCORE 7                                                                                                                                                 |
| <b>Models No.</b>             | : | ATG 708                                                                                                                                                 |
| <b>Model Different</b>        | : | N/A                                                                                                                                                     |
| <b>Product Description</b>    | : | Operation<br>Frequency:<br>802.11b/g/n(HT20): 2412MHz~2462MHz<br>802.11n(HT40): 2422MHz~2452MHz<br>U-NII-1: 5180MHz~5240MHz<br>U-NII-3: 5745MHz~5825MHz |
| <b>Power Rating</b>           | : | Input: DC 4V 1.5A<br>Output: DC 5V 200mAh<br>DC 3.7V by 4000mAh Li-ion battery                                                                          |
| <b>Software Version</b>       | : | V01                                                                                                                                                     |
| <b>Hardware Version</b>       | : | V02                                                                                                                                                     |
| <b>Connecting I/O Port(S)</b> | : | Please refer to the User's Manual                                                                                                                       |

**SAR Test Exclusion Calculations**

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(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          |                       |                              |                                      |                                     |                   |                 |
|-------------------------------|-----------------------|------------------------------|--------------------------------------|-------------------------------------|-------------------|-----------------|
| 2.4G WiFi Mode(802.11b)       |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)               | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dbm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.412                         | 9.10                  | $9 \pm 0.5$                  | 9.5                                  | 8.913                               | 2.768             | 3.0             |
| 2.437                         | 8.90                  | $9 \pm 0.5$                  | 9.5                                  | 8.913                               | 2.783             | 3.0             |
| 2.462                         | 9.04                  | $9 \pm 0.5$                  | 9.5                                  | 8.913                               | 2.797             | 3.0             |
| 2.4G WiFi Mode(802.11g)       |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)               | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dbm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.412                         | 8.60                  | $8 \pm 0.5$                  | 8.5                                  | 7.079                               | 2.199             | 3.0             |
| 2.437                         | 8.42                  | $8 \pm 0.5$                  | 8.5                                  | 7.079                               | 2.210             | 3.0             |
| 2.462                         | 8.80                  | $8 \pm 0.5$                  | 8.5                                  | 7.079                               | 2.222             | 3.0             |
| 2.4G WiFi Mode(802.11n(HT20)) |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)               | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dbm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.412                         | 7.56                  | $7 \pm 0.5$                  | 7.5                                  | 5.623                               | 1.747             | 3.0             |
| 2.437                         | 7.37                  | $7 \pm 0.5$                  | 7.5                                  | 5.623                               | 1.756             | 3.0             |
| 2.462                         | 6.53                  | $7 \pm 0.5$                  | 7.5                                  | 5.623                               | 1.765             | 3.0             |
| 2.4G WiFi Mode(802.11n(HT40)) |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)               | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dbm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.422                         | 7.22                  | $7 \pm 0.5$                  | 7.5                                  | 5.623                               | 1.750             | 3.0             |
| 2.437                         | 6.99                  | $7 \pm 0.5$                  | 7.5                                  | 5.623                               | 1.756             | 3.0             |
| 2.452                         | 7.57                  | $7 \pm 0.5$                  | 7.5                                  | 5.623                               | 1.761             | 3.0             |

| Test separation: 5mm             |                 |
|----------------------------------|-----------------|
| The worst RF Exposure Evaluation |                 |
| Worst Calculation Value          | Threshold Value |
| 2.4G WiFi Mode                   |                 |
| 2.797                            | 3.0             |

| Test separation: 5mm |                             |                              |                                      |                                     |                   |                 |
|----------------------|-----------------------------|------------------------------|--------------------------------------|-------------------------------------|-------------------|-----------------|
| 5G WiFi              |                             |                              |                                      |                                     |                   |                 |
| Mode                 | Worst Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dbm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| U-NII-1 (5180MHz)    | 6.44                        | $6.5 \pm 0.5$                | 7                                    | 5.012                               | 2.281             | 3.0             |
| U-NII-3 (5825MHz)    | 6.52                        | $6.5 \pm 0.5$                | 7                                    | 5.012                               | 2.419             |                 |

| Test separation: 5mm             |                 |
|----------------------------------|-----------------|
| The worst RF Exposure Evaluation |                 |
| Worst Calculation Value          | Threshold Value |
| 5G WiFi Mode                     |                 |
| 2.419                            | 3.0             |

The 2.4g Band and 5G Band of the product share the same antenna, so they will not be launched at the same time

The MPE is calculated as  $2.797/\text{cm}^2 < \text{limit } 3.0$ . So, SAR test are not required.

-----END OF REPORT-----