

# Maximum Permissible Exposure Evaluation

## FCC ID: 2ANYB-ATG-708

### 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>	:	<table border="0"> <tr> <td>Operation</td> <td>802.11b/g/n(HT20): 2412MHz~2462MHz</td> </tr> <tr> <td>Frequency:</td> <td>802.11n(HT40): 2422MHz~2452MHz</td> </tr> <tr> <td></td> <td>U-NII-1: 5180MHz~5240MHz</td> </tr> <tr> <td></td> <td>U-NII-3: 5745MHz~5825MHz</td> </tr> </table>	Operation	802.11b/g/n(HT20): 2412MHz~2462MHz	Frequency:	802.11n(HT40): 2422MHz~2452MHz		U-NII-1: 5180MHz~5240MHz		U-NII-3: 5745MHz~5825MHz
Operation	802.11b/g/n(HT20): 2412MHz~2462MHz									
Frequency:	802.11n(HT40): 2422MHz~2452MHz									
	U-NII-1: 5180MHz~5240MHz									
	U-NII-3: 5745MHz~5825MHz									
<b>Power Rating</b>	:	Input: DC 4V 1.5A Output: DC 5V 200mAh 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:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0$  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±0.5	9.5	8.913	2.768	3.0
2.437	8.90	9±0.5	9.5	8.913	2.783	3.0
2.462	9.04	9±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±0.5	8.5	7.079	2.199	3.0
2.437	8.42	8±0.5	8.5	7.079	2.210	3.0
2.462	8.80	8±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±0.5	7.5	5.623	1.747	3.0
2.437	7.37	7±0.5	7.5	5.623	1.756	3.0
2.462	6.53	7±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±0.5	7.5	5.623	1.750	3.0
2.437	6.99	7±0.5	7.5	5.623	1.756	3.0
2.452	7.57	7±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±0.5	7	5.012	2.281	3.0
U-NII-3 (5825MHz)	6.52	6.5±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/cm2 < limit 3.0. So, SAR test are not required.

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