

# RF Exposure Evaluation

## FCC ID: 2ASCK-1

### 1. Client Information

<b>Applicant</b>	:	Dongguan Green Power One Co.,Ltd
<b>Address</b>	:	No.26, Hongyun Street, Qingxi Town, Dongguan City, Guangdong province, China
<b>Manufacturer</b>	:	Dongguan Green Power One Co.,Ltd
<b>Address</b>	:	No.26, Hongyun Street, Qingxi Town, Dongguan City, Guangdong province, China

### 2. General Description of EUT

<b>EUT Name</b>	:	PROCOMM2 BLUETOOTH EARBUDS	
<b>Models No.</b>	:	TT-HFB-P2,GBH01	
<b>Model Difference</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is the difference in packing and model.	
<b>Product Description</b>	:	Operation Frequency:	Bluetooth: 2402~2480 MHz
		RF Output Power:	Bluetooth: 4.825dBm(Max)
		Antenna Gain:	4.25dBi Ceramic Antenna
<b>Power Rating</b>	:	DC 5.0V by USB. DC 3.7V by 310mAh Li-ion battery.	
<b>Software Version</b>	:	V1.0	
<b>Hardware Version</b>	:	V1.0	
<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 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:

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

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



**2. Calculation:**

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.537	-1±1	0	1.000	0.310	3.0
2.441	4.825	4±1	5	3.162	0.988	3.0
2.480	4.472	4±1	5	3.162	0.996	3.0
Bluetooth Mode (Pi/4-DQPSK)						
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
2.402	-5.621	-5±1	-4	0.398	0.123	3.0
2.441	0.404	0±1	1	1.259	0.393	3.0
2.480	-0.045	0±1	1	1.259	0.397	3.0
Bluetooth Mode (8-DPSK)						
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
2.402	-4.689	-4±1	-3	0.501	0.155	3.0
2.441	1.306	1±1	2	1.585	0.495	3.0
2.480	0.774	0±1	1	1.259	0.397	3.0

Test separation: 5mm	
The worst RF Exposure Evaluation	
Worst Calculation Value	Threshold Value
0.996	3.0

The worst RF Exposure Evaluation is **0.996 / cm2 < limit 3.0**, So standalone SAR measurements are not required.

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