### Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE154630

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# RF Exposure Evaluation FCC ID: 2AJWO-P4001

#### 1. Client Information

**Applicant**: Pred Technologies USA, Inc.

Address: 7855 Fay Avenue, suite 310 La Jolla, California 92037 USA

Manufacturer : Sunstar Digi (H.K.) Co.,Ltd.

Address: 2-3 Floor F Building, Guanlong 1st Industrial Zone, Xili Town, Nanshan

District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	4	PRED Smart Earbuds				
Models No.		P4001				
Model Difference	:	N/A				
Product Description	100	Operation Frequency:	Bluetooth 4.0: 2402~2480 MHz			
		Number of Channel:	Bluetooth: 79 Channels see Note 2			
		Max Peak Output Power:	Bluetooth: 1.150 dBm(GFSK)			
		Antenna Gain:	1.3 dBi PCB Antenna			
		Modulation Type:	GFSK (1 Mbps) π /4-DQPSK (2 Mbps) 8-DPSK (2 Mbps)			
Power Supply		DC Voltage supplied by USB. DC Voltage supplied by Li-ion battery.				
Power Rating	:	DC 5V by USB Cable. DC 3.7V by 55mAh Li-ion battery.				
Connecting I/O Port(S)		Please refer to the User's Manual				

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

TB-RF-074-1. 0

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#### **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≤5 mm are determined by:

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

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



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## 2. Calculation:

		BI	uetooth 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	0.904	0±1.5	1.5	1.413	0.438	3.0
2.441	1.150	0±1.5	1.5	1.413	0.441	3.0
2.480	0.207	0±1.5	1.5	1.413	0.445	3.0
		Blue	tooth Mode (π/4-DQP	PSK)		115.5
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	0.428	0±1.5	1.5	1.413	0.438	3.0
2.441	-0.285	0±1.5	1.5	1.413	0.441	3.0
2.480	-1.173	0±1.5	1.5	1.413	0.445	3.0
	WW TO	Blu	uetooth Mode (8-DPSI	K)		WHO S
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	-0.435	0±1.5	1.5	1.413	0.438	3.0
2.441	-0.247	0±1.5	1.5	1.413	0.441	3.0
2.480	-1.112	0±1.5	1.5	1.413	0.445	3.0

So standalone SAR measurements are not required.

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