Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ABHA0014

1. Client Information

Applicant: NINGBO CSTAR IMP&EXP CO., LTD

Address : Floor 4, Building E, No. 655-90, Qiming Road, Yinzhou Investment &

Innovation Center, Ningbo, China

Manufacturer : ShenZhen C-Star Electronic Tech. co., Ltd

Address: 2, 3/F, Building B, No. 2 Bada Industrial Park, Yongfu Road, Heping

Community, Fuyong Town, Baoan District, Shenzhen, China

2. General Description of EUT

Z. General i	ノモ	scription of Lot				
EUT Name		Micro Truwireless Earbuds				
Models No.	•	7199-99BK, SL066, 7199-99, 7198-04				
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.				
Product Description		Operation Frequency:	Bluetooth V4.1+EDR: 2402~2480 MHz			
		Number of Channel: Bluetooth: 79 Channels See Note 2				
		Max Peak Output Power:	ver: Bluetooth: 6.06 dBm(GFSK)			
		Antenna Gain:	nna Gain: 0 dBi PCB Antenna			
		Modulation Type: GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)				
Power Supply		DC power by USB cable.				
		DC power by Li-ion battery.				
Power Rating	:	EUT-1: DC 5V by USB Cable.				
		DC 3.7V by 450mAh Li-ion Battery.				
		EUT-2: DC 3.7V by 40mAh Li-ion Battery.				
Connecting I/O Port(S)	Ċ	Please refer to the User's Manual				
Note: EUT-1: Charging EUT-2: Headsets						

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	6.06	6±1	7	5.012	1.554	3.0
2.441	5.30	5±1	6	3.981	1.244	3.0
2.480	3.98	4±1	5	3.162	0.996	3.0
MIN Y		Blue	tooth Mode (π/4-DQF	PSK)	011	115
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	5.48	5±1	6	3.981	1.234	3.0
2.441	4.75	4±1	5	3.162	0.988	3.0
2.480	3.46	3±1	4	2.512	0.791	3.0
	WW DE	BI	uetooth Mode (8-DPS	K)		MINIO
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	5.61	5±1	6	3.981	1.234	3.0
2.441	4.71	4±1	5	3.162	0.988	3.0
2.480	3.42	3±1	4	2.512	0.791	3.0

So standalone SAR measurements are not required.

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