

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ABHA0014

1. Client Information

Applicant:USC056Address:

Manufacturer : USC056 Address :

2. General Description of EUT

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:	Bluetooth: 6.06 dBm(GFSK)				
		Antenna 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	5	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)	K	Please refer to the User's Manual					
Note: EUT-1: Charging Box EUT-2: Headsets							

Note:

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

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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)]*[$\sqrt{f_{(GHz)}}$] \leqslant 7.5.0 for 10-g SAR



2.

Calculation:

Test separatio	on: 5mm					
100		B	uetooth Mode (GFSK)	100	
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
SAL V		Blue	tooth Mode (π/4-DQI	PSK)		
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
	CODD -	BI	uetooth Mode (8-DPS	к)		14 C 19 m
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.

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