Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ABHA0015

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

EUT Name		True Wireless Earbuds				
Models No.	:	7198-04, CT16286				
Brand Name	:	Cstar				
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 4.1: 2402~2480 MHz			
		Number of Channel:	Bluetooth: 79 Channels			
		Max Peak Output Power:	Bluetooth: 4.040 dBm(GFSK)			
	Ŀ	Antenna Gain:	0 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps)			
			π /4-DQPSK(2 Mbps)			
			8-DPSK(3 Mbps)			
Power Supply		DC Voltage Supplied by the Host System.				
		DC Supply by the Battery.				
Power Rating		DC 5.0 V by Host System.				
		DC 3.7 V by 40mAh Li-Lion Battery.				
Connecting I/O Port(S)	:	Please refer to the User's Manual				

Note:

More test information about the EUT please refer to 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)]*[$\sqrt{f_{(GHz)}}$] $\, \leqslant \! 3.0$ 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

2. Calculation:

Test separatio	n: 5mm					Barre
CIN'S	3 ~ (ВІ	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	Threshol d Value
2.402	4.040	4±1	5	3.162	0.980	3.0
2.441	3.958	4±1	5	3.162	0.988	3.0
2.480	3.817	4±1	5	3.162	0.996	3.0
U.S.	- CHILL	Blue	tooth Mode (π/4-DQPS	K)		UH)
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	Threshol d Value
2.402	3.475	4±1	5	3.162	0.980	3.0
2.441	3.900	4±1	5	3.162	0.988	3.0
2.480	3.793	4±1	5	3.162	0.996	3.0
2	AMIL.	Bli	uetooth Mode (8-DPSK)	COUNTY OF THE PARTY OF THE PART	-	MUL
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	Threshol d Value
2.402	3.771	4±1	5	3.162	0.980	3.0
2.441	3.629	4±1	5	3.162	0.988	3.0
2.480	3.548	4±1	5	3.162	0.996	3.0

So standalone SAR measurements are not required.

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