MPE REPORT

FCC ID: AUSCR8051A

Date of issue: Sept. 02, 2020

Report number:	MTi20081016-2E2
Sample description:	Tripper Turntable
Model(s):	CR8051A-BK, CR8051X-XXXX（X-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank）
Applicant:	Modern Marketing Concepts, Inc.
Address:	1220 E Oak, St. Louisville, KY 40204 United States
Date of test:	Aug. 20, 2020 to Sept. 02, 2020

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

Tel:(86-755)88850135 Fax: (86-755) 88850136 Web: http://www.mtitest.com E-mail: mti@51mti.com
Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.

TEST RESULT CERTIFICATION	
Applicant's name:	Modern Marketing Concepts, Inc.
Address:	1220 E Oak, St. Louisville, KY 40204 United States
Manufacture's name:	Timsen Development Limited
Address:	5F, 447# Tianhebei Road, Guangzhou, China
Product name:	Tripper Turntable
Trademark:	CROSLEY
Model and/or type reference:	CR8051A-BK
Serial model:	CR8051X-XXXX (X-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank)
RF exposure procedures:	KDB 447498 D01 v06

This device described above has been tested by Shenzhen Microtest Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by: Demi Mu — Sept. 02, 2020

Reviewed by: Leo Su — Sept. 02, 2020

Approved by: Tom Xue — Sept. 02, 2020

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	$*900/f^2$	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	$*180/f^2$	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: $Pd= (Pout*G)\ (4*pi*R^2)$

Where

Pd= Power density in mW/cm2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

BT:

Operation Frequency: BT GFSK, π/4-DQPSK: 2402-2480MHz,

Power density limited: 1mW/ cm^2

Antenna Type: BT Antenna: PCB Antenna;
BT antenna gain:-0.58dBi

R=20cm

mW=10^(dBm/10)

antenna gain Numeric=10^(dBi/10)= 10^(-0.58/10)=0.87

modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
	(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
			(dBm)	(mW)	(dBi)	Numeric		
GFSK	3.095	3±1	4	2.512	-0.58	0.87	0.0004	1
	3.533	3±1	4	2.512	-0.58	0.87	0.0004	1
	3.317	3±1	4	2.512	-0.58	0.87	0.0004	1
π/4-DQPSK	4.191	5±1	6	3.981	-0.58	0.87	0.0007	1
	5.004	5±1	6	3.981	-0.58	0.87	0.0007	1
	4.78	5±1	6	3.981	-0.58	0.87	0.0007	1

Conclusion:

For the max result: 0.0007≤ 1.0 for 1g SAR, No SAR is required.

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