

MPE REPORT

FCC ID: 2AE67-27052706

Date of issue: Oct. 29, 2019

Report number: MTi19091213-4E2

Sample description: Pop Box Karaoke

Model(s): CR-2705, CR-2706

Applicant: Bulk Unlimited Corp

Address: 199 Lee Ave. Suite 464, BROOKLYN, NY, NEW YORK, United States

Date of test: Sept. 20, 2019 to Sept. 29, 2019

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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TEST RESULT CERTIFICATION Applicant's name: **Bulk Unlimited Corp** 199 Lee Ave. Suite 464, BROOKLYN, NY, NEW YORK, United Address: States Manufacture's name: Hatzlacha Group limited Unit 6C, 6/F Yu Yang Sang Tower, 11-15 Chatham Road South, Address: Tsim Sha Tsui, Kowloon, Hong Kong NessToy and its affiliates Bulk Unlimited Corp, Dime & Nickel Importer: LLC, Kidzlane LLC, Ness Universal LLC Product name: Pop Box Karaoke Trademark: CROOVE Model and/or type reference .: CR-2705 Serial model....: CR-2706 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:	Demy/hu			
	Demi Mu	Sept. 29, 2019		
Reviewed by:	13 lue. Zherg			
	Blue Zheng	Oct. 29, 2019		
Approved by:	Smothen			
	Smith Chen	Oct. 29, 2019		

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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 4.89/1	*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 Gene	ral Population/Uncontrolled	Exposure							
0.3-1.34	614	1.63	*100	30						
1.34-30	824/	f 2.19/1	*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*R2)

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.

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Measurement Result

BT:

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

Power density limited: 1mW/ cm²

Antenna Type: BT Antenna: PCB Antenna;

antenna gain: 0dBi

R=20cm

 $mW=10^{dBm/10}$

antenna gain Numeric=10^(dBi/10)= 10^(0/10)=1.00

Channel Freq. (MHz) modulati on	modulati	conducted power	Tune- up	Max		Antenna		Evaluation result	Power density Limits
		power	tune-up power		Gain				
		(dBm)	(dBm)	(dBm)	(mW)	(dBi)	Num eric	(mW/cm2)	(mW/cm2)
2402	GFSK	2.51	2±1	3	1.995	0	1	0.0004	1
2441		2.71	2±1	3	1.995	0	1	0.0004	1
2480		2.16	2±1	3	1.995	0	1	0.0004	1
2402	π/4- DQPSK	3.76	4±1	5	3.162	0	1	0.0006	1
2441		4.163	4±1	5	3.162	0	1	0.0006	1
2480		3.593	4±1	5	3.162	0	1	0.0006	1

Conclusion:

For the max result: 0.0006≤ 1.0 for 1g SAR, No SAR is required.

----END OF REPORT----