FCC RF EXPOSURE REPORT

FCC ID: 2AHKA-CAPRI125P

Project No.	**: 1708C076**
Equipment	**: BT Speaker, Internet Radio**
Model	**: KAPSCH-H, KAPSCH CAPRI 125 PLUS**
Applicant	**: Guangzhou Rayer Acoustic Technology Co.,Ltd**
Address	**: 520,192 Kezhu Road, Guangzhou Science Park, Guangzhou, Guangdong, China**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

BTL INC.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	KAPSCH	N/A	PCB Antenna	N/A	1.66	BT Antenna
2	KAPSCH	N/A	PCB Antenna	N/A	4/5.5	Wi-Fi Antenna

For Wi-Fi Antenna gain, Wi-Fi 2.4G: 4dBi, Wi-Fi 5G: 5.5dBi

TEST RESULTS

EUT：	BT Speaker, Internet Radio	Model Name :	KAPSCH-H
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4	2.5119	22.47	176.6038	0.08830	1	Complies

5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
5.5	3.5481	5.20	3.3113	0.00234	1	Complies

BT

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.66	1.4655	3.93	2.4717	0.00072	1	Complies

For 2.4G+5G simultaneous transmission MPE:

0.08830/1+0.00234/1=0.09464

Note: the calculated distance is 20 cm.