

FCC RF EXPOSURE REPORT

FCC ID: EMOB55

Project No. : 1512C230
Equipment : Rechargeable Speaker
Model : AV-B55,FD-B55, FR-B55, PW-B55, SL-B55,
SM-B55,ST-B55, TL-B55, YK-B55, XX-B55 (XX
denotes A-Z for different brand)
Applicant : SDI TECHNOLOGIES INC.
Address : 1299 Main Street, Rahway, NJ 07065, U.S.A
According: : FCC Guidelines for Human Exposure IEEE
C95.1

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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)
1	N/A	N/A	Printed	N/A	0

TEST RESULTS

EUT :	Rechargeable Speaker	Model Name :	AV-B55
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode _1Mbps		

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
0	1.0000	3.35	2.1627	0.00043048	1	Complies
0	1.0000	2.83	1.9187	0.00038190	1	Complies
0	1.0000	2.69	1.8578	0.00036979	1	Complies

EUT :	Rechargeable Speaker	Model Name :	AV-B55
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode _3Mbps		

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
0	1.0000	3.57	2.2751	0.00045285	1	Complies
0	1.0000	3.11	2.0464	0.00040733	1	Complies
0	1.0000	2.91	1.9543	0.00038900	1	Complies

Note: the calculated distance is 20 cm.