

FCC RF EXPOSURE REPORT

FCC ID: EMOIBT231

Project No. : 1611C114
Equipment : Bluetooth FM Clock Radio with Dual USB
charging
Model : iBT231
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 .

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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)
1	N/A	N/A	PIFA	N/A	0

TEST RESULTS

EUT :	Bluetooth FM Clock Radio with Dual USB charging	Model Name :	iBT231
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	5.53	3.5727	0.00071	1	Complies
0	1.0000	6.71	4.6881	0.00093	1	Complies
0	1.0000	6.44	4.4055	0.00088	1	Complies

EUT :	Bluetooth FM Clock Radio with Dual USB charging	Model Name :	iBT231
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	4.81	3.0269	0.00060	1	Complies
0	1.0000	6.22	4.1879	0.00083	1	Complies
0	1.0000	6.06	4.0365	0.00080	1	Complies

Note: the calculated distance is 20 cm.