

FCC RF EXPOSURE REPORT

FCC ID: XQW-FBTPR5001

Project No. : 1611C055
Equipment : FENDER NEWPORT BLUETOOTH SPEAKER
Model : NEWPORT(PR5001)
Applicant : Fender Musical Instruments
Address : 17600 N. Perimeter Drive,Suite 100,
Scottsdale , Arizona 85255, U.S.A.

According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	TYMPHANY	N/A	PCB	N/A	3.29

TEST RESULTS

EUT :	FENDER NEWPORT BLUETOOTH SPEAKER	Model Name :	NEWPORT(PR5001)
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
3.29	2.1330	8.70	7.4131	0.00315	1	Complies
3.29	2.1330	8.96	7.8705	0.00334	1	Complies
3.29	2.1330	8.93	7.8163	0.00332	1	Complies

EUT :	FENDER NEWPORT BLUETOOTH SPEAKER	Model Name :	NEWPORT(PR5001)
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
3.29	2.1330	7.52	5.6494	0.00240	1	Complies
3.29	2.1330	8.78	7.5509	0.00321	1	Complies
3.29	2.1330	8.78	7.5509	0.00321	1	Complies

Note: the calculated distance is 20 cm.