

FCC RF EXPOSURE REPORT

FCC ID: 2AG58AE36473003

Project No. : 1512170
Equipment : Active Bluetooth speaker system
Model : Aego³, Aego Sound3ar
Applicant : Acoustic Energy Ltd.
Address : 16 Bridge Road, Cirencester, Gloucestershire
GL7 1NJ, United Kingdom
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	PCB	N/A	4.02

TEST RESULTS

EUT :	Active Bluetooth speaker system	Model Name :	Aego ³ , Aego Sound3ar
Temperature :	25 °C	Relative Humidity:	58 %
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
4.02	2.5235	5.52	3.5645	0.00179040	1	Complies
4.02	2.5235	6.14	4.1115	0.00206514	1	Complies
4.02	2.5235	6.09	4.0644	0.00204150	1	Complies

EUT :	Active Bluetooth speaker system	Model Name :	Aego ³ , Aego Sound3ar
Temperature :	25 °C	Relative Humidity:	58 %
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
4.02	2.5235	7.90	6.1660	0.00309707	1	Complies
4.02	2.5235	8.53	7.1285	0.00358056	1	Complies
4.02	2.5235	8.86	7.6913	0.00386323	1	Complies

Note: the calculated distance is 20 cm.