



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: BOU-AD7050W

Project No. : 1201C151
Equipment : Wireless speaker with Airplay
Model : AD7050W/37
Applicant : Philips Consumer Lifestyle
Address : 1600 Summer Street Stamford Connecticut, United States

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)	cable length
1	Mogear	C4096-510 003-A	Integral Antenna	MHF	2.0	260mm
2	Mogear	C4096-510 003-A	Integral Antenna	MHF	2.0	260mm

TEST RESULTS

EUT:	Wireless speaker with Airplay	Model Name :	AD7050W/37
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CH01/CH06/CH11		

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
2.0	1.5849	18.22	66.3743	0.02093873	1	Complies
2.0	1.5849	18.64	73.1139	0.02306484	1	Complies
2.0	1.5849	18.88	77.2681	0.01936201	1	Complies



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Test Mode :	TX G MODE CH01/CH06/CH11		

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
2.0	1.5849	14.75	29.8538	0.00941782	1	Complies
2.0	1.5849	14.84	30.4789	0.00961502	1	Complies
2.0	1.5849	14.10	25.7040	0.00644096	1	Complies