



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: BOU-DS3881W

Project No. : 1107C102
Equipment : Wireless speaker with AirPlay
Model : DS3881W/37
Applicant : Philips Consumer Lifestyle
Address : 3029 East Governor John Sevier Hwy.

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

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)	cable length
1	Mogear	C6048-510 028PA	Integral Antenna	U.FL	2.0	145mm

TEST RESULTS

EUT:	Wireless speaker with AirPlay	Model Name :	DS3881W/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	15.10	32.3594	0.01020823	1	Complies
2.0	1.5849	15.04	31.9154	0.01006817	1	Complies
2.0	1.5849	15.02	31.7687	0.01002191	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	17.56	57.0164	0.01798665	1	Complies
2.0	1.5849	17.50	56.2341	0.01773987	1	Complies
2.0	1.5849	17.40	54.9541	0.01733606	1	Complies