



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: BOU-HTB5544DVF7**

**Project No. : 1304C217**  
**Equipment : Home Theater**  
**Model : HTB5544D/F7**  
**Applicant : Philips Consumer Lifestyle**  
**Address : 5/F, Philips Electronics Building, 5 Science Park  
East Avenue, Hong Kong Science Park, Shatin,  
New Territories, Hong Kong**

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

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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	N/A	N/A	Printed	N/A	1.06



## TEST RESULTS

EUT:	Home Theater	Model Name :	HTB5544D/F7
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.06	1.2764	21.23	132.7394	0.03372488	1	Complies
1.06	1.2764	21.72	148.5936	0.03775290	1	Complies
1.06	1.2764	22.23	167.1091	0.04245710	1	Complies

EUT:	Home Theater	Model Name :	HTB5544D/F7
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.06	1.2764	18.86	76.9130	0.01954116	1	Complies
1.06	1.2764	18.96	78.7046	0.01999633	1	Complies
1.06	1.2764	19.67	92.6830	0.02354780	1	Complies



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EUT:	Home Theater	Model Name :	HTB5544D/F7
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.06	1.2764	17.54	56.7545	0.01441951	1	Complies
1.06	1.2764	17.85	60.9537	0.01548640	1	Complies
1.06	1.2764	17.92	61.9441	0.01573803	1	Complies

EUT:	Home Theater	Model Name :	HTB5544D/F7
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.06	1.2764	17.04	50.5825	0.01285140	1	Complies
1.06	1.2764	17.36	54.4503	0.01383408	1	Complies
1.06	1.2764	17.68	58.6138	0.01489191	1	Complies