

# **FCC RF EXPOSURE REPORT**

**FCC ID:VW3FAST2705WS**

**Project No. : 1611C071**  
**Equipment : Wireless ADSL Router**  
**Model : F@ST 2705 WS**  
**Applicant : SAGEMCOM BROADBAND SAS.**  
**Address : 250 Route de l' Empereur - 92848 RUEIL**  
**MALMAISON CEDEX- FRANCE**

**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:

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

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.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)	Note
0	N/A	N/A	PCB	N/A	3.1	TX/RX
1	N/A	N/A	PCB	N/A	3.6	TX/RX

## TEST RESULTS

EUT :	Wireless ADSL Router	Model Name :	F@ST 2705 WS
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11_ANT 0		

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
3.6	2.2909	14.72	29.6483	0.01351918	1	Complies
3.6	2.2909	16.78	47.6431	0.02172453	1	Complies
3.6	2.2909	16.57	45.3942	0.02069905	1	Complies

EUT :	Wireless ADSL Router	Model Name :	F@ST 2705 WS
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11_ANT 0		

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
3.6	2.2909	14.05	25.4097	0.01158645	1	Complies
3.6	2.2909	18.79	75.6833	0.03451043	1	Complies
3.6	2.2909	15.05	31.9890	0.01458648	1	Complies

EUT :	Wireless ADSL Router	Model Name :	F@ST 2705 WS
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE/ CH01, CH06, CH11_ANT 0+ANT1		

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
3.6	2.2909	16.27	42.3643	0.01931748	1	Complies
3.6	2.2909	19.26	84.3335	0.03845478	1	Complies
3.6	2.2909	18.24	66.6807	0.03040538	1	Complies

EUT :	Wireless ADSL Router	Model Name :	F@ST 2705 WS
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE / CH04, CH06, CH09_ANT 0+ANT1		

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
3.6	2.2909	12.89	19.4536	0.00887055	1	Complies
3.6	2.2909	18.00	63.0957	0.02877070	1	Complies
3.6	2.2909	16.36	43.2514	0.01972197	1	Complies

Note: the calculated distance is 20 cm.