



166 South Carter, Genoa City, WI 53128

Company:	Whirlpool Corporation
Model Tested:	XPWP and XPWC
Report Number:	18708
DLS Project:	5163

FCC Code of Federal Regulations 47 Part 1.1307(b) (1)

RF Exposure Statement of Compliance

THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name:	WIFI Processor Module & WIFI Core Module
Kind of Equipment:	802.11b/g/n Wi-Fi appliance module
Frequency Range:	2412-2462 MHz
Test Configuration:	DC powered transceiver module
Model Number(s):	XPWP (Processor) and XPWC (Core)
Model(s) Tested:	XPWP (Processor) and XPWC (Core)
Serial Number(s):	RF Conducted on Processor SN: NP109221 Radiated on Processor SN: NP109223 RF Conducted on Core SN: NP109413 Radiated on Core SN: NP109401
Date of Tests:	12-17-12 through 02-05-13
Test Conducted For:	Whirlpool Corporation 750 Monte Rd Benton Harbor, MI 49022, USA



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Transmitter Information:

Maximum Conducted Output Power:	23.22 dBm
Maximum Effective Isotropic Radiated Power	27.42 dBm
Frequency:	2422 MHz
Antenna Type:	PIFA
Antenna Gain:	4.2 dBi

Exposure Limit:

Maximum Permissible Exposure (MPE) limit for General Population / Uncontrolled Exposure in the frequency range 1500 – 100,000 MHz (ref: 47 CFR Part 1.1310 Table 1(b))

Limit: $(S) \text{ (mW/cm}^2\text{)} = 1.0 \text{ mW/cm}^2$

MPE Calculation:

Power Density (mW/cm^2):

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

S = Power Density (mW/cm^2)

P = Power Input to the antenna (mW)

G = Numeric Power Gain of the antenna

R = Distance to the center of the radiation of the antenna (cm)



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Results:

P =	23.22	dBm						
G =	4.2	dBi						
R =	20	cm						
π	3.14159							
Transmit Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain	Distance (cm)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Margin
2422	23.22	209.89399	4.2	2.63027	20	0.1098	1.0	0.890

Summary of Results:

With a minimum separation distance of 20 centimeters as defined by FCC 2.1091(b), for a mobile device, the Whirlpool Inc WIFI Processor Module model XPWP and WIFI Core Module model XPWC **meets** the RF exposure evaluation requirements for maximum permissible exposure to any radiating structure and the general population / uncontrolled exposure.

Conclusion:

The Whirlpool Inc WIFI Processor Module model XPWP and WIFI Core Module model XPWC operating under FCC part 15.247 complies with the requirements of FCC Part 1.1307(b)(1) for RF Exposure Evaluation.