



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: Q78-ZXW3512C**

**Project No. : 1202C182A**  
**Equipment : Indoor Wireless AP**  
**Model : ZXV10 W812N V2**  
**Applicant : ZTE Corporation**  
**Address : ZTE Plaza, Keji Road South, Hi-Tech,  
Industrial Park, Nanshan District, Shenzhen,  
Guangdong, P.R. China**

**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:

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

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)	Note
A	MAGLAYERS	EDA-1513-5G0R2-A1	Dipole	R-SMA	3	5G
B	MAGLAYERS	EDA-1513-5G0R2-A1	Dipole	R-SMA	3	5G

Note:

The antenna of EUT could be rotated, but the Antenna Polarity vertical is max.

(2) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then,

Direction gain = GANT, that is Directional gain=3.

Operating Mode	2TX
TX Mode	
802.11a	-
802.11n(20MHz)	V (ANT A & ANT B)
802.11n(40MHz)	V (ANT A & ANT B)



**TEST RESULTS**

EUT:	Indoor Wireless AP	Model Name :	ZXV10 W812N V2
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 4/ TX A Mode /CH149, CH157, CH165		

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	1.9953	26.48	444.6313	0.17658360	1	Complies
3	1.9953	26.44	440.5549	0.17496467	1	Complies
3	1.9953	26.38	434.5102	0.17256407	1	Complies

EUT:	Indoor Wireless AP	Model Name :	ZXV10 W812N V2
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 4/ TX N20 Mode /CH149, CH157, CH165		

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	1.9953	27.35	543.2503	0.21574978	1	Complies
3	1.9953	27.44	554.6257	0.22026747	1	Complies
3	1.9953	27.48	559.7576	0.22230558	1	Complies

EUT:	Indoor Wireless AP	Model Name :	ZXV10 W812N V2
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 4/ TX N40 Mode /CH151, CH159		

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	1.9953	26.88	487.5285	0.19362007	1	Complies
3	1.9953	26.92	492.0395	0.19541161	1	Complies