



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: Q78- ZXHNH168NW

Project No. : 1306C032
Equipment : VDSL CPE
Model : ZXHN H168NW
Applicant : ZTE Corporation
**Address : ZTE Plaza, Hi-Tech Park, Nanshan District,
Shenzhen, Guangdong, P.R. China**

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

Testing Engineer :

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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)
1	Airgain	N2430GNS	Integral	N/A	3.1
2	Airgain	N2430GNS	Integral	N/A	1.8

TEST RESULTS

EUT :	VDSL CPE	Model Name :	ZXHN H168NW
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 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
3.1	2.0417	27.36	544.5027	0.22128418	1	Complies
3.1	2.0417	26.52	448.7454	0.18236873	1	Complies
3.1	2.0417	26.69	466.6594	0.18964892	1	Complies



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EUT :	VDSL CPE	Model Name :	ZXHN H168NW
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.1	2.0417	29.8	954.9926	0.38810601	1	Complies
3.1	2.0417	29.76	946.2372	0.38454783	1	Complies
3.1	2.0417	29.51	893.3055	0.36303656	1	Complies

EUT :	VDSL CPE	Model Name :	ZXHN H168NW
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.1	2.0417	29.73	939.7233	0.38190063	1	Complies
3.1	2.0417	29.83	961.6123	0.39079623	1	Complies
3.1	2.0417	29.36	862.9785	0.35071179	1	Complies

EUT :	VDSL CPE	Model Name :	ZXHN H168NW
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.1	2.0417	29.6	912.0108	0.37063836	1	Complies
3.1	2.0417	29.79	952.7962	0.38721339	1	Complies
3.1	2.0417	29.85	966.0509	0.39260007	1	Complies

Note: the calculation distance is 20cm.