

FCC RF EXPOSURE REPORT

FCC ID: Q78-ZXHNH168N

Project No. : 1811H005
Equipment : VDSL CPE
Model : ZXHN H168N
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 & FCC Part 2.1091**

B T L I N C .

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Certificate #5123.02

1. GENERAL SUMMARY

Equipment : VDSL CPE
 Brand Name : ZTE
 Test Model : ZXHN H168N
 Series Model : N/A
 Applicant : ZTE Corporation
 Manufacturer : ZTE Corporation
 Address : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China
 Date of Test : Dec. 03, 2018~Dec. 12, 2018
 Test Sample : Engineering Sample No.: D181211058 for conducted; D181211059 for radiated
 Standards : FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. *BTL-FCCP-2-1811H005*) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC-17025 quality assessment standard and technical standard(s).

2. 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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	N/A	3
2	N/A	N/A	PIFA	N/A	3

Note:

This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
 so Directional gain = $G_{ANT} + 10\log(N)$ dBi, that is Directional gain = $3 + 10\log(2)$ dBi = 6.01;
 Antenna Gain = 6.01 dBi. So, the out power limit is $30 - 6.01 + 6 = 29.99$,
 the power density limit is $8 - 6.01 + 6 = 7.99$.

3. TEST RESULTS

Directional Gain (dBi)	Directional Gain (numeric)	Max Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.01	3.99	28.19	659.17	0.52	1	Complies

Note: the calculated distance is 20 cm.

End of Test Report