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.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.
TEL: +86-769-8318-3000   FAX: +86-769-8319-6000

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ACCREDITED

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}+10log(N)dBi, that is Directional gain=3+10log(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/cm2)	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