

FCC RF EXPOSURE REPORT

FCC ID: 2A5LO-ZLTP90

This report concerns: Original Grant

Project No. : 2410C237
Equipment : 4G Wireless Router
Brand Name : TOZED KANGWEI
Test Model : ZLT P90
Series Model : ZLT P90Y(Y,Y can be A-J), Telsey P90
Applicant : Tozed Kangwei Tech Co., Ltd
Address : Room 1301, No. 37, Jinlong, Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou,China
Manufacturer : Tozed Kangwei Tech Co., Ltd
Address : Room 1301, No. 37, Jinlong, Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou,China
Factory : Tozed Kangwei Tech Co., Ltd
Address : Room 1301, No. 37, Jinlong, Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou,China
Date of Receipt : Oct. 30, 2024
Date of Test : Nov. 01, 2024 ~ Nov. 27, 2024
Issued Date : Nov. 29, 2024
Report Version : R00
Test Sample : Engineering Sample No.: DG20241030387
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2410C237	R00	Original Report.	Nov. 29, 2024	Valid

1. 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

2. ANTENNA SPECIFICATION

For WCDMA:

Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Shenzhen Be-Comfortable Technology Co. Ltd	N19-0728-R0A	PCB	N/A	4.26	WCDMA Band II
				4.26	WCDMA Band IV
				4.66	WCDMA Band V

Note: The antenna gain is provided by the manufacturer.

For LTE:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Shenzhen Be-Comfortable Technology Co. Ltd	N19-0728-R0A	PCB	N/A	4.26	LTE Band 2
				4.26	LTE Band 4
				4.66	LTE Band 5
				6.23	LTE Band 7
				4.26	LTE Band 25
				7.31	LTE Band 40 (2305-2315MHz)
				7.31	LTE Band 40 (2350-2360MHz)
				6.23	LTE Band 41
				4.88	LTE Band 42
				3.72	LTE Band 48

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For WCDMA:

Band	Frequency (MHz)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
Band II	1852.4	25	4.26	3.6000	843.33	0.1678	1.0000	Complies
Band V	826.4	25	4.26	2.6669	843.33	0.1679	0.5509	Complies
Band IV	1712.4	25	4.66	3.6000	843.33	0.1678	1.0000	Complies

For LTE:

Band	Frequency (MHz)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
Band 2	1850.7	25	4.26	2.6669	843.33	0.1678	1.0000	Complies
Band 4	1710.7	25	4.26	2.6669	843.33	0.1678	1.0000	Complies
Band 5	824.7	25	4.66	2.9242	924.70	0.1841	0.5498	Complies
Band 7	2502.5	25	6.23	4.1976	1327.39	0.2641	1.0000	Complies
Band 25	1850.7	25	4.26	2.6669	843.33	0.1678	1.0000	Complies
Band 40 (2305-2315 MHz)	2307.5	25	7.31	5.3827	1702.16	0.3386	1.0000	Complies
Band 40 (2350-2360 MHz)	2352.5	25	7.31	5.3827	1702.16	0.3386	1.0000	Complies
Band 41	2498.5	25	6.23	4.1976	1327.39	0.2641	1.0000	Complies
Band 42	3452.5	25	4.88	3.0761	972.75	0.1935	1.0000	Complies
Band 48	3552.5	20	3.72	2.3550	235.50	0.0469	1.0000	Complies
CA_41C	2499.3	25	6.23	4.1976	1327.39	0.2641	1.0000	Complies
CA_42C	3453.3	25	4.88	3.0761	972.75	0.1935	1.0000	Complies

Note:

(1) The calculated distance is 20 cm.

End of Test Report