

Maximum Permissible Exposure Report

Test Model.....	: BL1606B
List Model No	: WC 603
EUT.....	: Bluetooth Speaker
Applicant.....	: Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Address.....	: Vtrek Dewei Industrial Garden, Shibeil Industrial Road, Dashi Town, Panyu Borough, Guangzhou, Guangdong, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Address.....	: Vtrek Dewei Industrial Garden, Shibeil Industrial Road, Dashi Town, Panyu Borough, Guangzhou, Guangdong, China
Telephone.....	: /
Fax.....	: /

RADIO FREQUENCY EXPOSURE

1. Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

Table: Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Power Density (S) (mW/cm ²)
0.3–1.34	*(100)
1.34–30	*(180/f ²)
30–300	0.2
300–1500	f/1500
1500–100,000	1.0

F = frequency in MHz

* = Plane-wave equivalent power density

Maximum Permissible Exposure

The MPE was calculated at 20cm to show compliance with the power density limit.

$$S = PG/4\pi R^2$$

S = Power density

P = power input to 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.

Note:

1. Manufacturer declared that the maximum antenna gain is 0dBi (Max.) for 2402~2480MHz.

2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.

3. Only record worst case data.

2. Test Results

Conducted Power Result

Test	Channel	ANT a Power (dBm)	ANT Max. Tune Up Power (dBm)
GFSK	0	-2.458	-3.0±1.0
	39	-2.940	-3.0±1.0
	78	-3.804	-4.0±1.0
8-DPSK	0	-2.586	-3.0±1.0
	39	-3.067	-4.0±1.0
	78	-3.981	-4.0±1.0

Standalone MPE

Mode	Max. ANT Power (dBm)	ANT Max. Tune Up Power (dBm)	ANT Max. Tune Up Power (mW)	ANT MPE (mW/cm ²)	Limit (mW/cm ²)
GFSK	-2.458	-3.0±1.0	0.631	0.0001	1.0
8-DPSK	-2.586	-3.0±1.0	0.631	0.0001	1.0

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.