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/cm2)
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 0.0dBi (Max.) for Bluetooth,

(So the G for calculate the MPE is 1.00).

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

20cm.

3. Only record worst case data.

2 Test Results

Standalone MPE

Test		Channel	ANT Power (dBm)	ANT Max. Tune Up Power (dBm)	ANT Max. Tune Up Power (mW)	ANT MPE (mW/cm²)	Limit (mW/cm²)
BLE	GFSK	0	-6.330	-6.0±1.0	0.3162	0.0001	1.0
		19	-7.351	-7.0±1.0	0.2512	0.0000	1.0
		39	-8.289	-7.0±1.0	0.2512	0.0000	1.0

Note: The estimation distance is 20cm.

Conclusion

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

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