

Test Result of RF Exposure Evaluation

- . Product: Zigbee Module
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD

Antenna Gain

Frequency Range: 2.405-2.480 GHz

Antenna 1

- Antenna type: Dipole Antenna
- Antenna Gain: 2 dBi

Antenna 2

- Antenna type: Dipole Antenna
- Antenna Gain: 5dBi

Antenna 3

- Antenna type: PIFA Antenna
- Antenna Gain: 3.74dBi

EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Output Power into Antenna & RF Exposure Evaluation Distance

Test Date: Sep. 28, 2010

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 65%

Antenna	Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/Cm2)
1	O-QPSK (Normal)	01	2405	3.90	0.001
		09	2445	3.03	0.001
		16	2480	2.36	0.001
	O-QPSK (Boost)	01	2405	6.76	0.001
		09	2445	6.20	0.001
		16	2480	2.86	0.001
2	O-QPSK (Normal)	01	2405	3.90	0.002
		09	2445	3.03	0.001
		16	2480	2.36	0.001
	O-QPSK (Boost)	01	2405	6.76	0.003
		09	2445	6.20	0.003
		16	2480	2.86	0.001
3	O-QPSK (Normal)	01	2405	3.90	0.001
		09	2445	3.03	0.001
		16	2480	2.36	0.001
	O-QPSK (Boost)	01	2405	6.76	0.002
		09	2445	6.20	0.002
		16	2480	2.86	0.001

The MPE is calculated as $0.003 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.