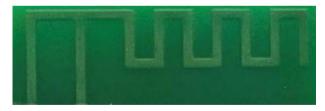
**Antenna Type: PCB Antenna** 

Antenna Manufacture: Soundlab Technology Company Limited Address:No.101, 202, Building 1, Microlab Industrial Park, No.2 Baozi South Road, Kengzi, Pingshan District, Shenzhen, Guang dong,P.R. China

Antenna Model Number:PCB Antenna

Antenna Layout & module on the system board



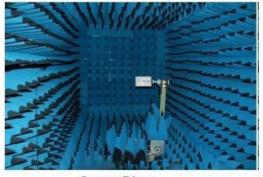
## 1. Testing Environment

a. Test System

# chamber



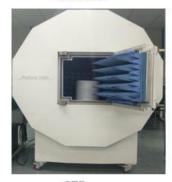
Satimo



Guang Ping



Airlink



GTS

#### b. Test Instrument

# equipment







TECON.







### 2. Passive test data

## Passive Efficiency & Gain

frequency (MHz)	efficiency (%)	efficiency (dB)	Gain (dB)
2400	39. 21	-4. 07	1. 22
2410	36. 37	-4.39	1. 43
2420	35. 67	-4. 48	0.17
2430	35. 60	<b>-4. 49</b>	0.37
2440	37. 38	-4. 27	1.00
2450	38. 57	-4. 14	0.99
2460	36.89	-4. 33	0.98
2470	35. 57	-4. 49	0.30
2480	37. 02	-4. 32	0.39
AVG	36. 9	-4. 33	0.85

### 3. Active test data

#### a. TRP&TIS

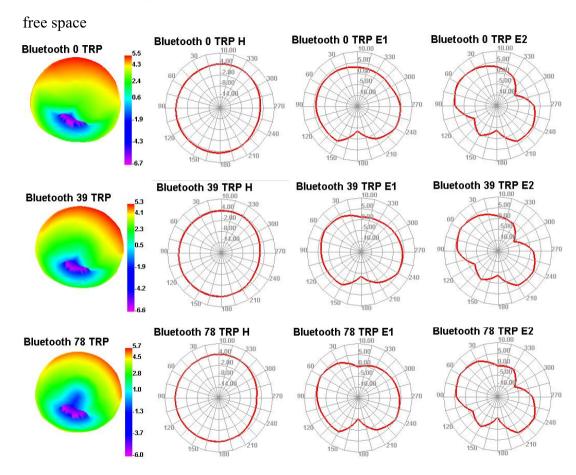
free space

Channel	TRP	TIS
CH	(dBm)	(dBm
0	5. 28	-90.51
39	4.92	-90.11
78	5.05	-90.54

The head ear

Channel	TRP	TIS
CH	(dBm)	(dBm
0	-2.38	-84.72
39	-2.35	-84.91
78	-2.01	-85.53

#### b. Directivity Diagram



#### The head ear

