

Shenzhen cape deep communication technology co., LTD

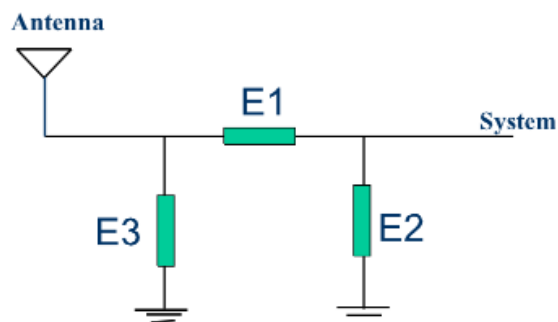
ANTENNA TEST REPORT

Customer: LongVon Technology (Shenzhen) Co., LTD
Project name: V19 Smart ring
Radio Test: Pang Gong
Date: 2022.09.20
Version: 01

Project commissioning brief

Type	Smart ring		
		band information	Antenna form
frequency band	BT	2400MHz-2480MHz	PIFA
Antenna material	PCB Antenna		

BT Antenna matching circuit



Smart ring	Element	Value	The main board is originally matched
	E1 (0201)	0R	
	E2 (0201)	NC	
	E3 (0201)	NC	

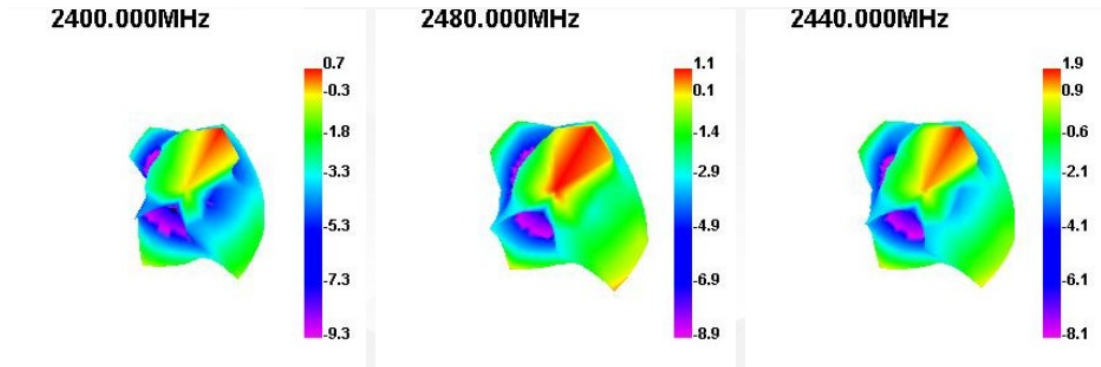
Antenna passive wave graph



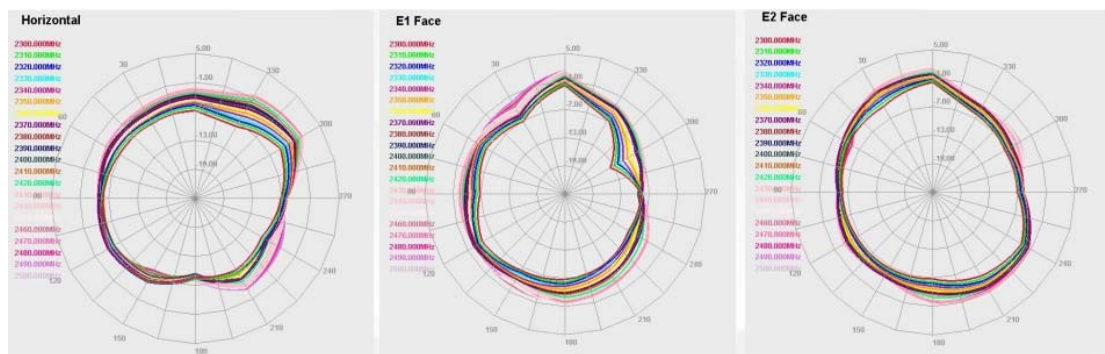
BT Antenna passive efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	38.16	-4.18	0.73
2410	39.19	-4.07	0.83
2420	41.78	-3.79	1.11
2430	46.77	-3.3	1.5
2440	51.27	-2.9	1.86
2450	53.36	-2.73	1.86
2460	50.36	-2.98	1.53
2470	47.34	-3.25	1.15
2480	46.89	-3.29	1.09
2490	48.83	-3.11	1.32
2500	48.03	-3.18	1.24

Antenna apple diagram



Antenna pattern



OTA		Antenna performance	
channel	Frequency	Free	On hand
0	2402	3.2	2.2
39	2441	3.6	2.5
78	2480	3.7	2.6
0	2402	-86.8	-85.5
39	2441	-87.5	-86.2
78	2480	-87.3	-85.3

Antenna Size

