MB2710 (JX312-01) Antenna Test Report

MODEL NAME		MB2710	
MCSLogic P/N			
No.	MODEL	FREQUENCY	
1	MB2710	BLUETOOTH	2402-2480MHz

Hardware version: V2.0

ANTENNA SPECIFICATION

1. MODEL: MB2710

2. APPLICATION:

This specification is provided for Bluetooth PCB Pattern ANTENNA.

3 ANTENNA used condition

■Portable ■Fixing ■Movement ■Out-door ■In-door ■Etc( )

4. ANTENNA Drawing

Attached : #4.Antenna Drawing paper

5. TRP/TIS

Attached : #3.TRP/ TIS

6.Electrical specification and performance

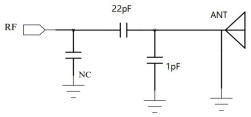
Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
1	FREQUENCY RANGE	2400 ~ 2490 MHz	
2	IMPEDANCE	50 Ω	NOMINAL
3	V. S. W. R	less than 2	Attached:#1.VSWR
4	PEAK GAIN (MAX)	1.73	Attached:#2.Radiation efficiency
5	RADIATION PATTERN	OMNI - DIRECTIONAL	
6	POLARIZATION	LINEAR	

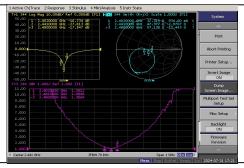
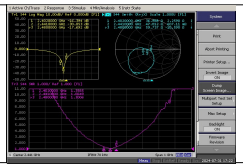
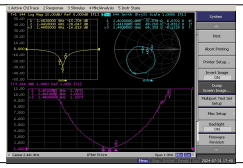
7.Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
1	Antenna Type	PIFA Type	
2	Matching Value	1pF(Shunt)	GND Feeding
3	Matching Value	22pF(Series)	
4	Dimension [D X H X W]	19.6 X 6.3 X 1.0T	

8.IMPEDANCE MATCHING

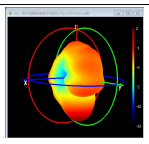


#1. VSWR

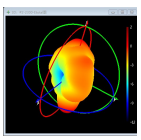




#2. Radiation efficiency

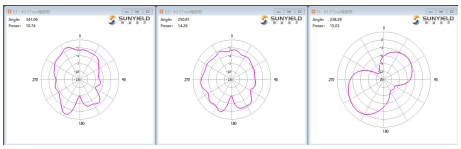
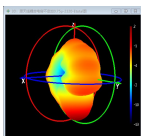
	Frequency (MHz)	η	Efficiency (dB)	Efficiency (%)
1	2400	1.33	-2.18	58.53
	2410	1.26	-2.05	60.44
	2420	1.51	-1.93	62.13
	2430	1.54	-1.81	63.91
	2440	1.61	-1.7	65.65
	2450	1.67	-1.63	66.78
	2460	1.58	-1.62	66.87
	2470	1.51	-1.62	66.81
	2480	1.42	-1.72	65.22
	2490	1.34	-1.91	62.4

	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2	2400	1.71	-2.2	58.31
	2410	1.62	-2.08	59.96
	2420	1.69	-1.93	62.05
	2430	1.73	-1.81	63.86
	2440	1.72	-1.72	65.28
	2450	1.64	-1.65	66.35
	2460	1.6	-1.78	64.43
	2470	1.54	-1.87	62.95
	2480	1.48	-1.98	61.38
	2490	1.3	-2.12	59.32

	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
3	2400	1.34	-2.12	59.25
	2410	1.45	-2.06	60.14
	2420	1.65	-1.97	61.52
	2430	1.64	-1.91	62.35
	2440	1.68	-1.85	63.27
	2450	1.62	-1.68	65.84
	2460	1.49	-1.74	64.84
	2470	1.62	-1.76	64.57
	2480	1.68	-1.91	62.28
	2490	1.34	-1.96	61.58

#3. TRP/ TIS

		Frequency (MHz)	Power (dBm)
1	TRP	2402	9.66
		2441	9.75
		2480	9.56
	TIS	Frequency (MHz)	Sensitivity (dBm)
		2402	-92.66
		2441	-92.79
		2480	-92.72

		Frequency (MHz)	Power (dBm)
2	TRP	2402	8.57
		2441	8.95
		2480	8.78
	TIS	Frequency (MHz)	Sensitivity (dBm)
		2402	-92.95
		2441	-93.23
		2480	-93.14

		Frequency (MHz)	Power (dBm)
3	TRP	2402	8.65
		2441	9.07
		2480	9.05
	TIS	Frequency (MHz)	Sensitivity (dBm)
		2402	-93.06
		2441	-93.14
		2480	-93.23

#4. Antenna Drawing Paper