

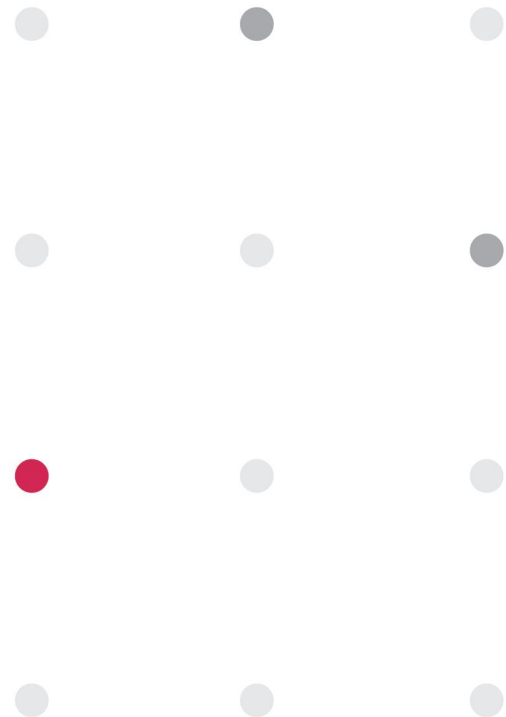
佳邦科技股份有限公司

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PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



追觅-电动牙刷

Presented by

冯立翔

2025/07/25



Version	Date	Description	Author
V01	2025/07/25	New Release	冯立翔

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 S-Parameter

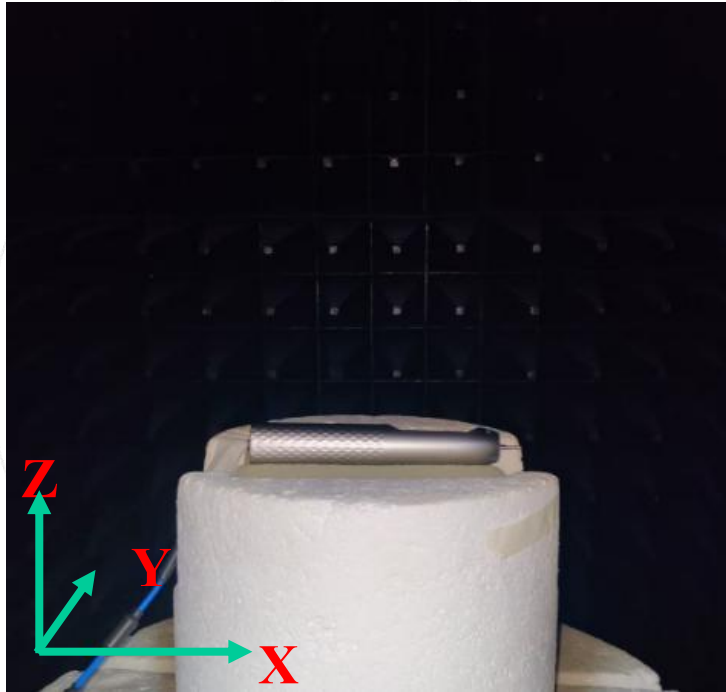
2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns

3. Summary

1. Measurement Information

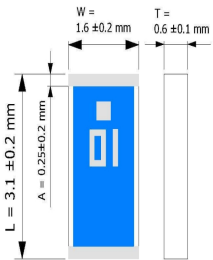
1.1 Experimental Setup

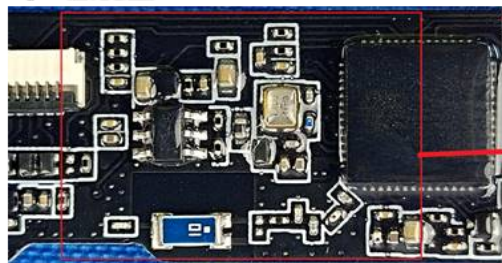


1. Measurement Information

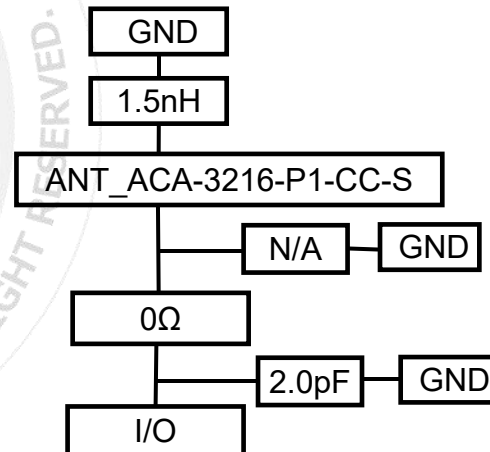
1.2 Antenna Solution Detail

DIMENSIONS

Figure	Symbol	Dimension (mm)
	L	3.10 ± 0.20
	W	1.60 ± 0.20
	T	0.60 ± 0.10
	A	0.25 ± 0.20



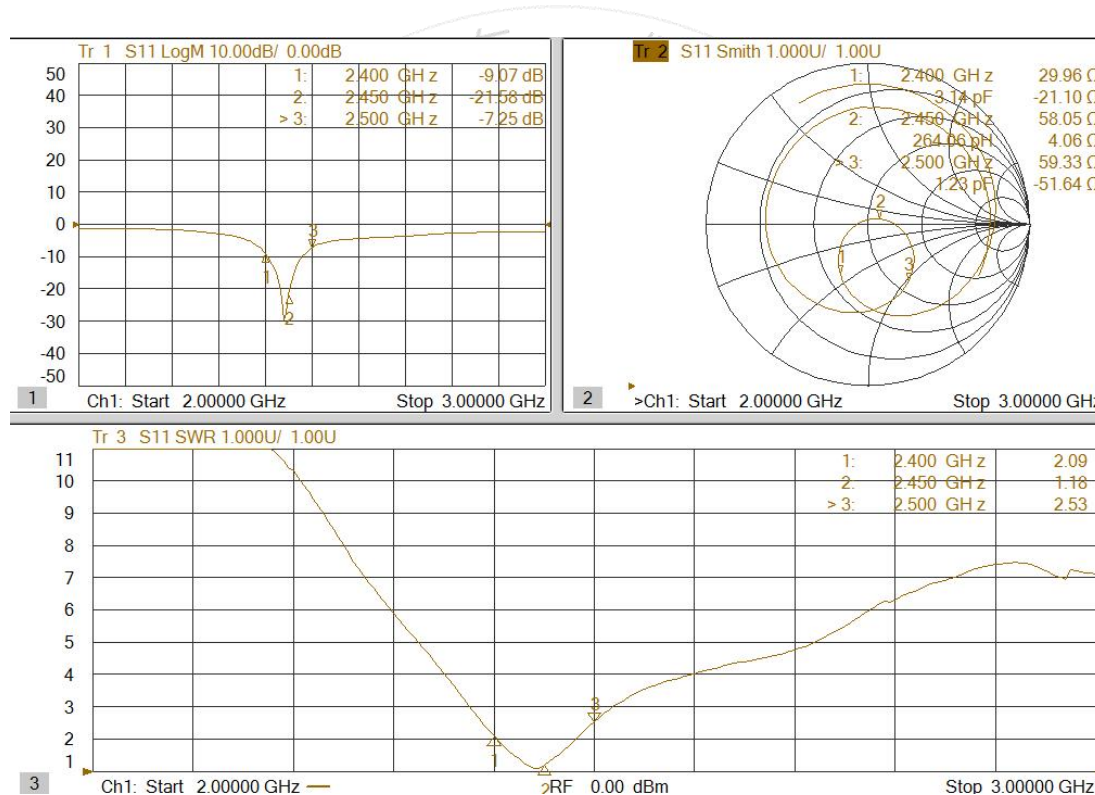
Matching values



	對應料號
0Ω	WR02X000 PAL
1.5nH	WLCM0603Z0B1N5TB
2.0pF	RF03N2R0A500CTLA

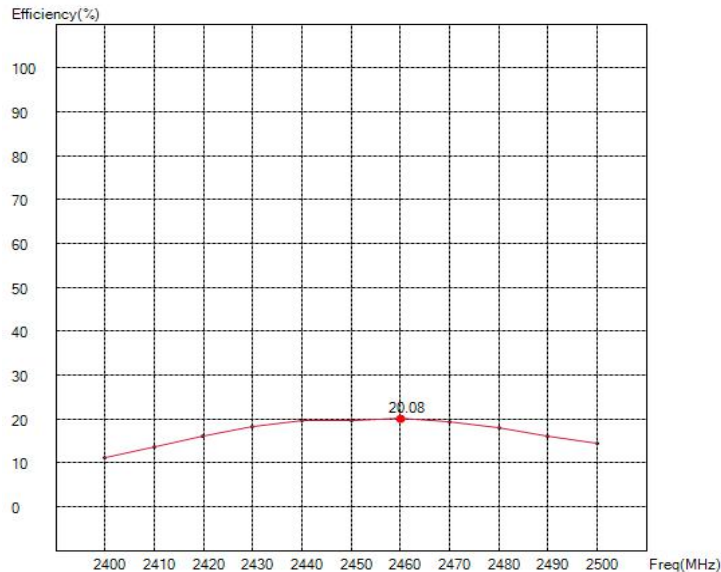
2. Antenna Characteristics

2.1 S-Parameter

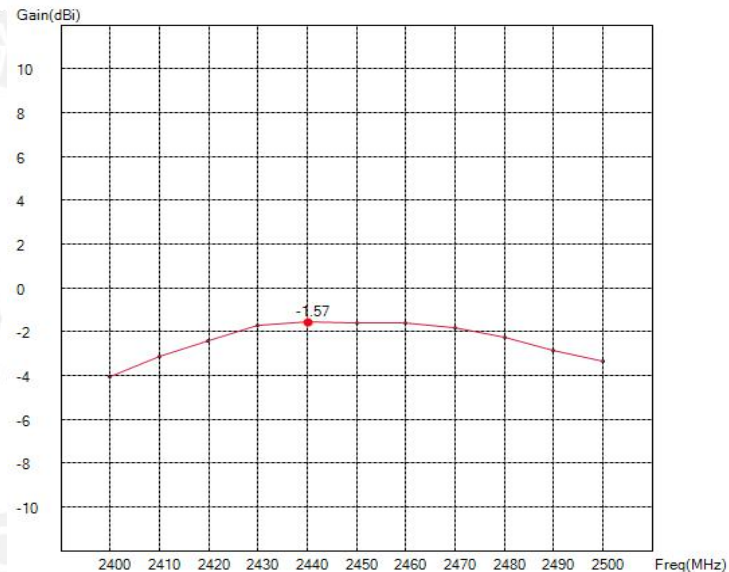


2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2460MHz : 20.08%



Maximum Peak Gain at 2440MHz : -1.57dBi

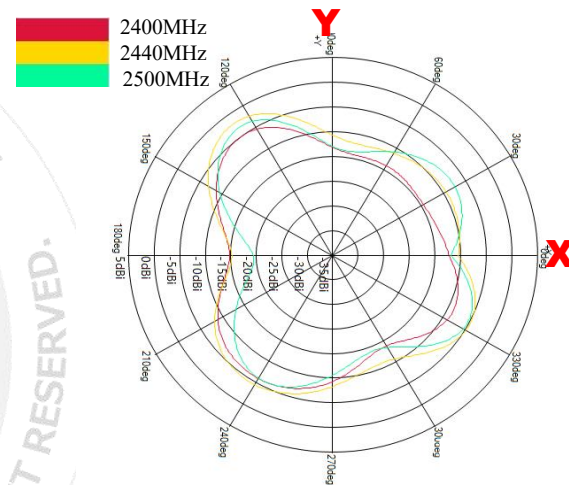
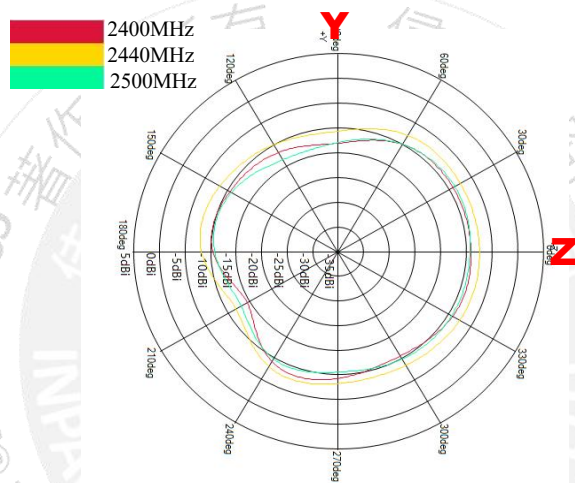
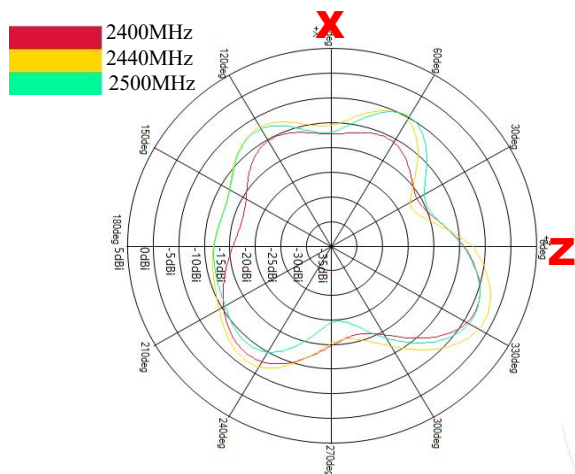
2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

	ANT	
Frequency (MHz)	Peak gain (dBi)	Efficiency (%)
2400	-4.03	11.27
2410	-3.15	13.61
2420	-2.44	16.13
2430	-1.74	18.36
2440	-1.57	19.49
2450	-1.63	19.69
2460	-1.58	20.08
2470	-1.83	19.39
2480	-2.25	17.87
2490	-2.88	16.15
2500	-3.38	14.51

2. Antenna Characteristics

2.3 2D Radiation Patterns



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-4.03	-9.59	-9.00	-10.13	-5.44	-9.72
2440	-1.57	-7.26	-7.34	-8.40	-2.37	-7.33
2500	-3.38	-8.61	-8.59	-10.29	-3.61	-8.62

3. Summary

- The performance of antennas is shown in table

	ANT
Maximum Efficiency (%)	20.08
Maximum Gain (dBi)	-1.57

Thank you

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