

藍芽耳機天線報告 Bluetooth headset antenna report

Ant model:T010

Levi
2024-12-13

Project Information (專案資訊)

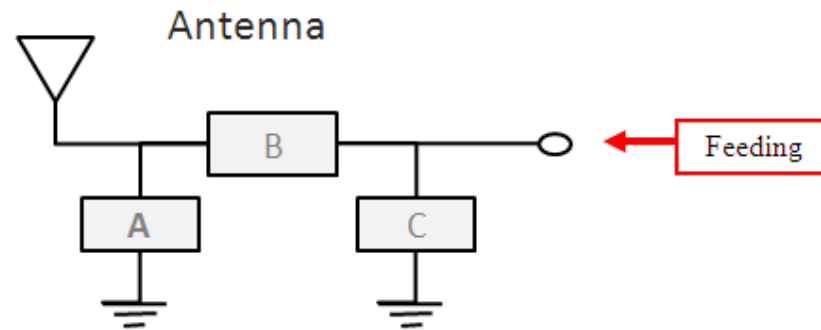
- Customer : Shenzhen TonyCore Technology Co.,Ltd.
- manufacturer: 808 Xinlong Building, Baishilong Community, Minzhi Street, Longhua District, Shenzhen, China
- Project name T010
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- RF (work Freq.):2400M-2484MHz
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調試要求 :

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- Suggested Solution 建議方案: FPC
- Phase 階段: Matching for Machine (整機調試)
- Report Date 報告日期: 2024/12/13
- Report Version 報告版本: Ver.01

Photo

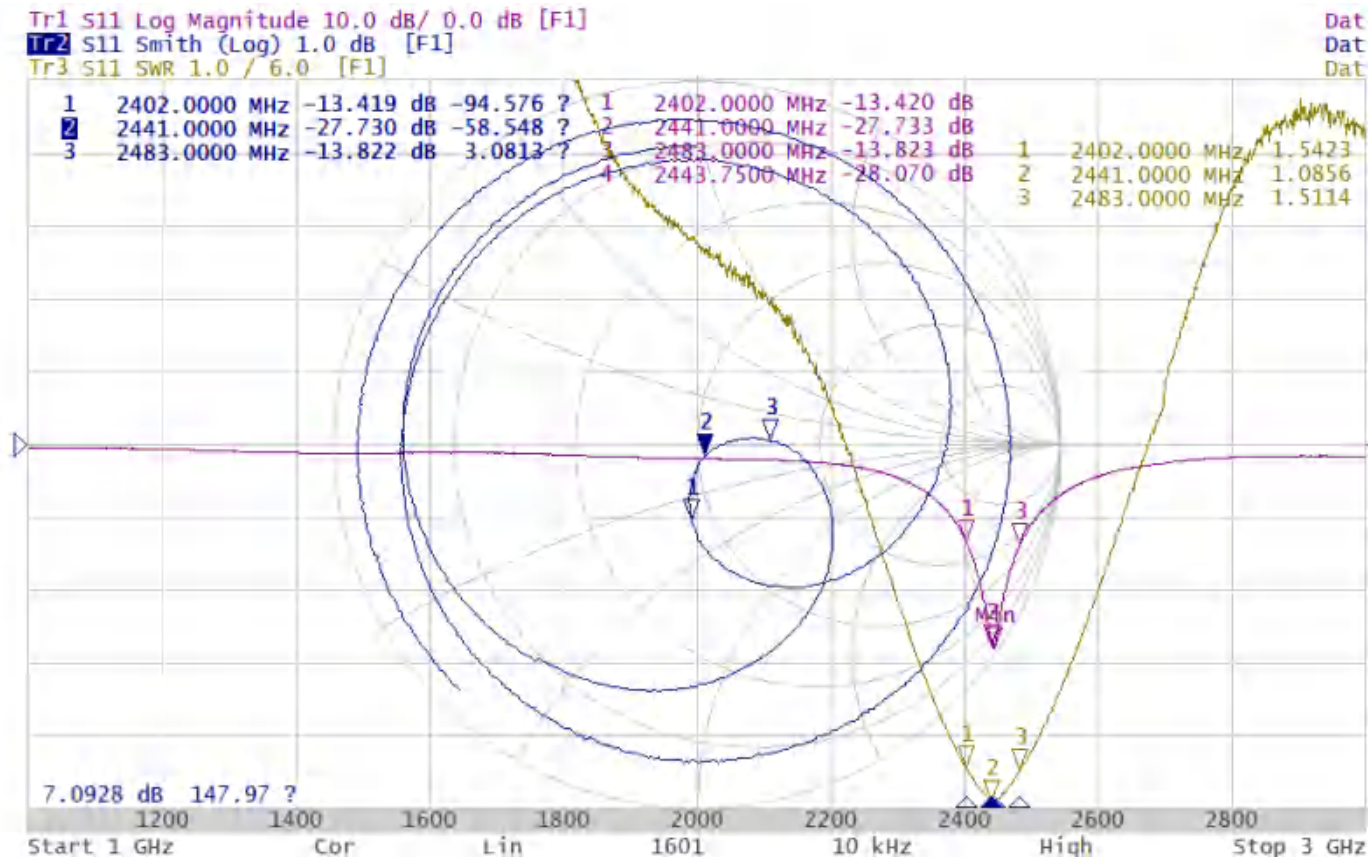
Antenna size : 2mm*4mm



Matching		Value
A	Inductor	NC
B	Resistor	0 Ω
C	Inductor	1.2nH

天線特性

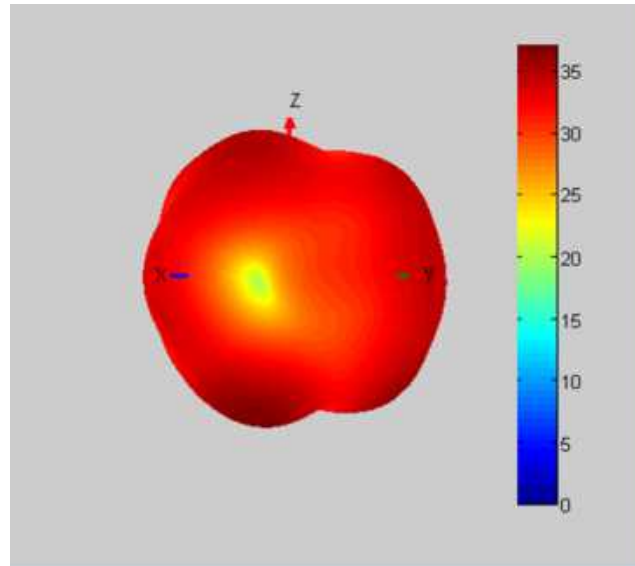
Antenna characteristics



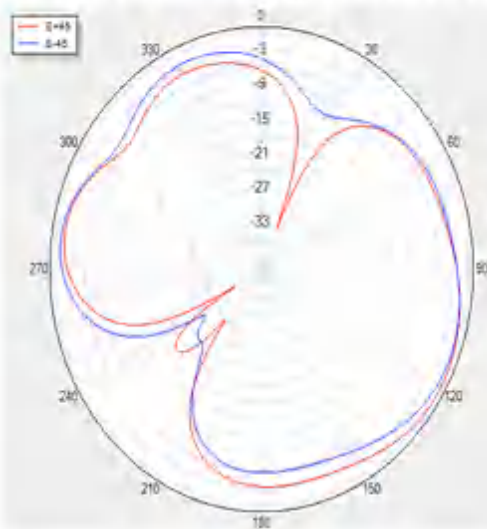
天線特性/Antenna characteristics

frequency 頻率(MHz)	gain 增益(dBi)	mingain 最小增益	CO Gain 主極化器	CP Gain 交叉極化	efficiency 效率(dB)	efficiency 效率
2400	-1.98	-33.37	-3.31	-2.26	-5.96	28.34%
2410	-1.1	-36.74	-2.5	-1.37	-5.09	30.99%
2420	-2.35	-41.77	-3.9	-2.62	-6.42	27.80%
2430	-0.15	-37.31	-3.83	-2.44	-6.33	30.27%
2440	0.18	-32.43	-3.01	-1.48	-5.49	30.25%
2450	0.69	-33.04	-3.86	-2.18	-6.22	33.88%
2460	0.76	-33.77	-3.87	-2.03	-6.12	34.45%
2470	0.6	-34.12	-3.23	-1.28	-5.4	31.82%
2480	-1.5	-35.77	-3.83	-1.78	-5.94	29.49%
2490	-0.92	-36.61	-3.22	-1.2	-5.34	29.24%
2500	-0.82	-37.96	-2.95	-1.08	-5.17	30.44%
2510	-1.83	-40.28	-3.93	-2.08	-6.14	24.34%
2520	-1.15	-39.06	-3.24	-1.39	-5.43	28.66%
2530	-1.1	-40.44	-3.05	-1.3	-5.3	29.49%
2540	-1.62	-41.75	-3.52	-1.74	-5.8	26.30%
2550	-1.26	-40.19	-3.17	-1.4	-5.5	28.20%
2560	-1.08	-39.28	-3.09	-1.26	-5.43	28.62%
2570	-1.29	-37.88	-3.42	-1.52	-5.79	26.39%
2580	-1.25	-36.89	-3.35	-1.53	-5.85	25.98%
2590	-1.39	-35.9	-3.54	-1.69	-6.05	24.85%
2600	-1.54	-35.03	-3.67	-1.86	-6.24	23.76%

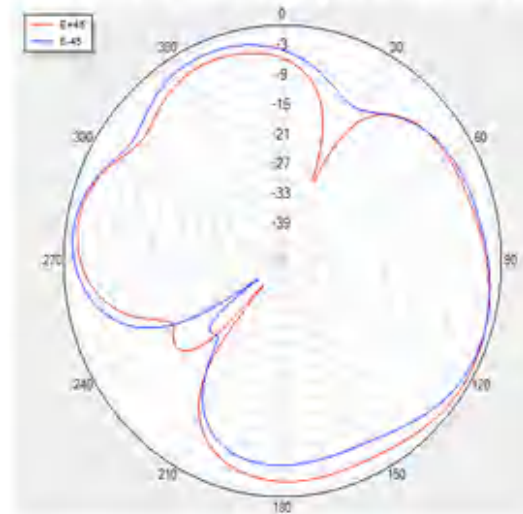
天線場型圖/Antenna Field Pattern



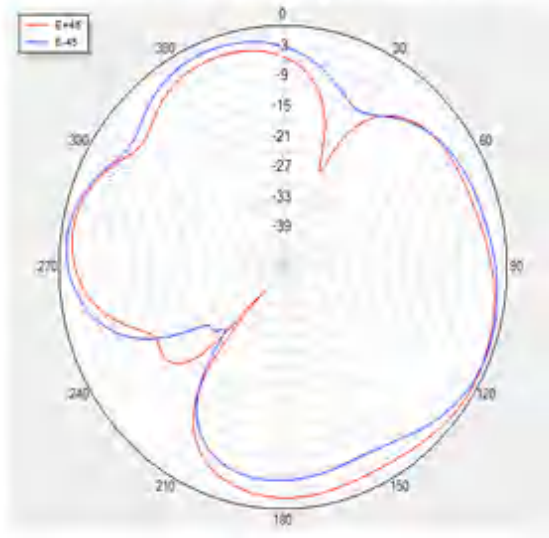
H Theta=90 freq=2400MHz



H Theta=90 freq=2450MHz



H Theta=90 freq=2480MHz

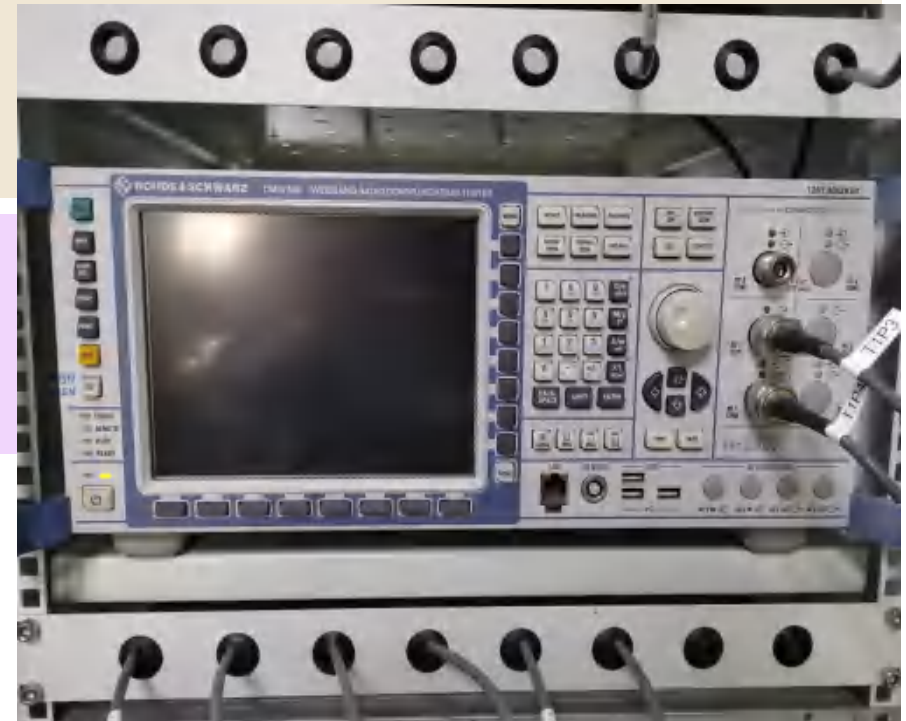


RF主要测试设备/RF main test equipment

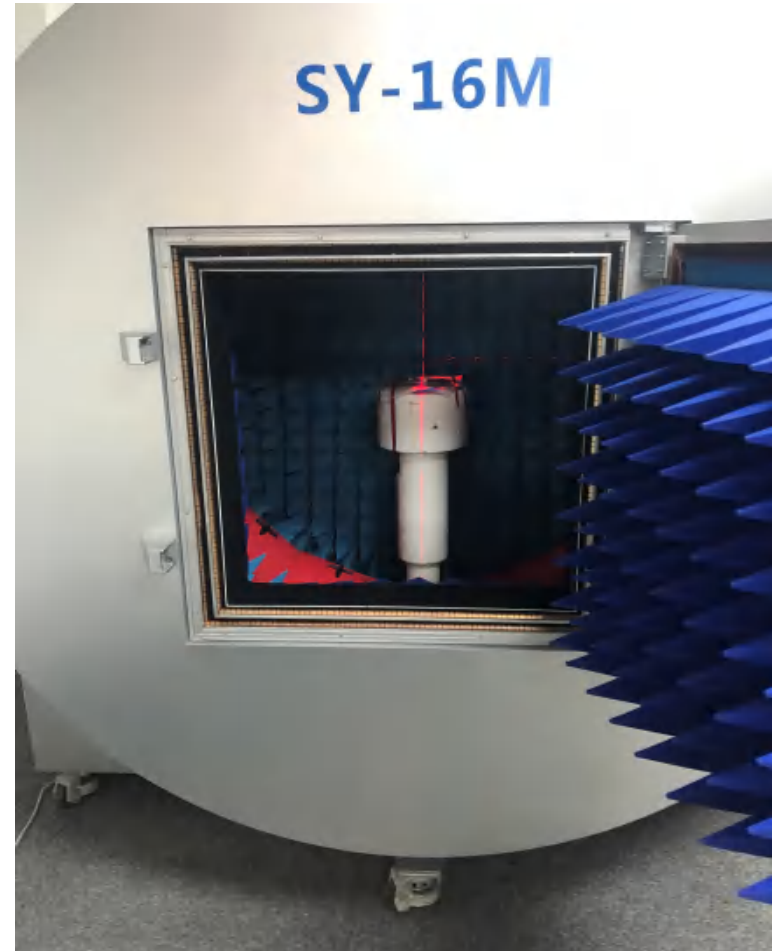
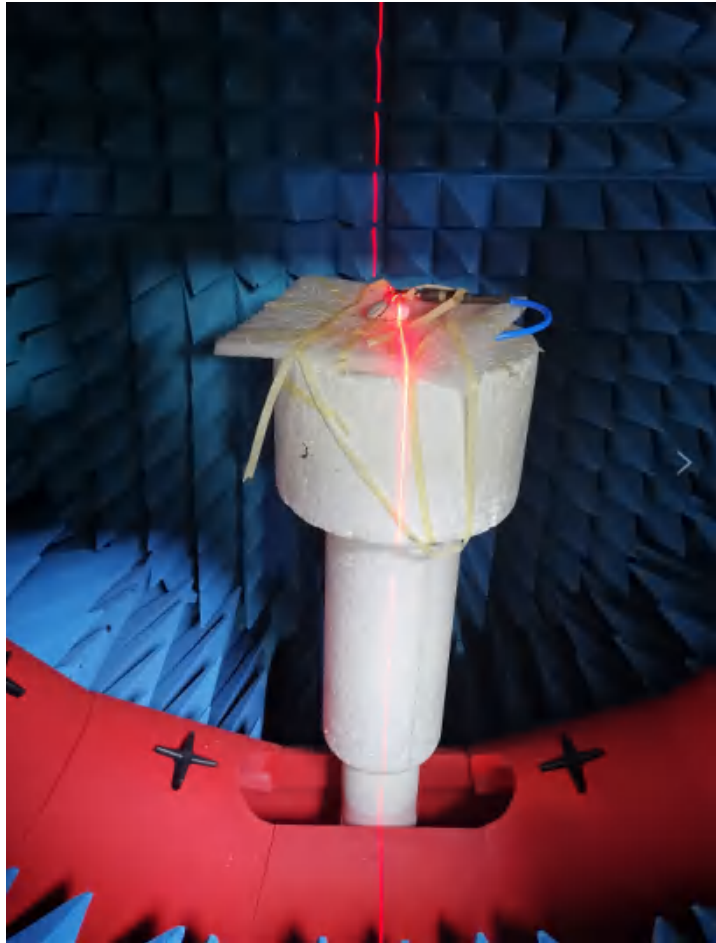
E5071C



CMW500



微波暗室/Microwave anechoic chamber



Thank You