Antenna specification for approval

Customer name: **Model :VT988**

Antenna type :BT/WIFI antenna **Antenna frequency band: 2.4G/5.8G**

Material : FPC **Color : Black**

Material Number:F825L-1L23B-040-A **Production date:2024-06-17**

Version：A

Admit that signature			
Confirmation Signature		**Customer Approved**	
Responsible		**Responsible**	
QC		**Engineer**	
Approve		**Approve**	
Date		**Date**	

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Contents

This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WIFI antenna.

- **Antenna shape size：Meet the requirement of MID project**
- **Antenna band：2400MHz~2500MHz，5150MHz~5850MHz**
- **Antenna material：Antenna material meet the requirement of MID**
- **Adhesive performance：Adhesive performance meet the requirement of MID**

Antenna performance SPEC overview

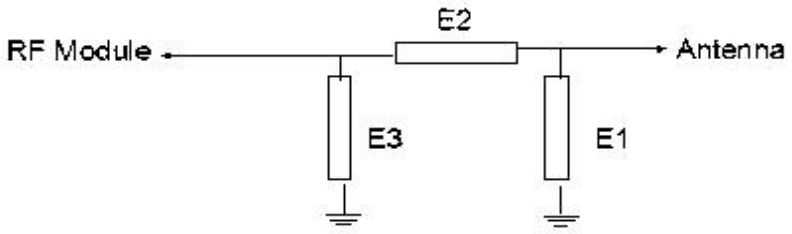
Description	2.4GHz~2.5GHz	Units
VSWR	≤2.0	
Average Antenna Gain	≥1.0	dB
Antenna Efficiency	≥40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

- **Mechanical Information**

Mechanical Dimension	
Cable Length	**40mm/Black**
Description	**BT/WIFI antenna**
Material	**FPC**
Coaxial Cable	**50Ohm/O.D.0.81mm**
Environmental	
Operation Temperature	**-40 to +85 deg C**
Storage Temperature	**-40 to +85 deg C**

2:Match the circuit diagram, antenna images

2.1 Match the circuit diagram

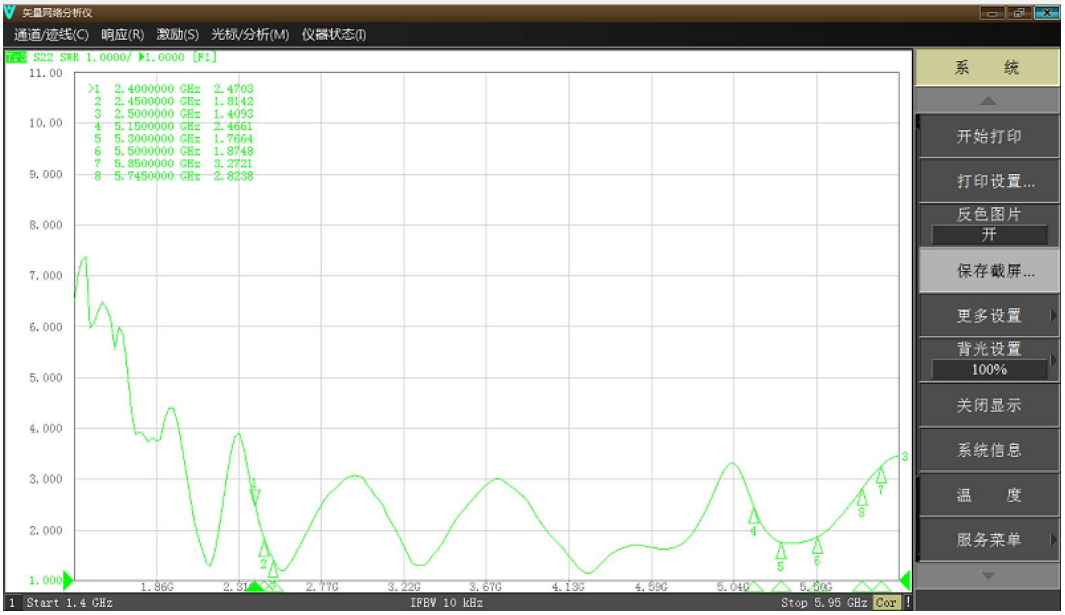


Our company did not modify the antenna matching

2.2 Machine and Antenna images

3：VSWR、Efficiency

3.1 VSWR



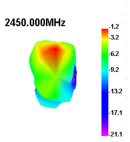
3.2 Efficiency

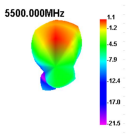
Test	2G TRP		
Result	1	7	13
Frequency (MHz)	2412	2442	2472
TRP(dBm)	8.86	9.09	9.37
NHPRP(dBm)	5.96	7.15	7.35
MAX(dBm)	13.33	13.55	14.32
EIRP peak	13.33	13.55	14.32
Min(dBm)	-5.85	-5.15	-2.25
Attenuation Horizontal	20.68	20.8	21.12
Attenuation Vertical	21.16	21.06	21.2

Test	ifi 2G TIS
Result	13
Frequency (MHz)	2472
TIS(dBm)	-80.5
NHPIS(dBm)	-78.48
RSSIAve	9.22
MaxPosRSSI	13.87
MaxPosSens	-85.15
MAX(dBm)	14.17
EIS peak	14.17
Min(dBm)	-2.41
Attenuation Horizontal	20.96
Attenuation Vertical	21.05

Passive Test For 2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	24.01	-8.54	-4.27	-6.42	6.013	7.994	-4.27	-26.62	38.47	38.51
2410	25.23	-8.17	-3.97	-6.12	6.509	8.716	-3.97	-28.48	38.6	38.72
2420	26.23	-7.9	-3.46	-5.61	7.073	9.154	-3.46	-25.18	38.63	38.73
2430	27.15	-7.66	-3.02	-5.17	7.611	9.538	-3.02	-21.42	38.6	38.55
2440	27.86	-7.48	-2.56	-4.71	8.255	9.6	-2.56	-19.38	38.69	38.76
2450	28.08	-7.43	-2.49	-4.64	8.604	9.473	-2.49	-17.64	38.78	38.96
2460	27.1	-7.67	-2.42	-4.57	8.65	8.452	-2.42	-16.28	38.8	38.94
2470	26.1	-7.93	-2.75	-4.9	8.425	7.674	-2.75	-15.83	38.92	39.36
2480	24.57	-8.37	-3.26	-5.41	8.088	6.48	-3.26	-16.24	39.08	39.38
2490	23.37	-8.74	-4.02	-6.17	7.742	5.623	-4.02	-16.97	39.14	39.59
2500	22.5	-9.03	-4.87	-7.02	7.559	4.939	-4.87	-16.89	39.08	39.61

Passive Test For 5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	26.86	-5.71	-1.13	-3.28	10.932	15.929	-1.13	-26.27	59.23	59.32
5200	26.81	-5.72	-1.3	-3.45	10.989	15.82	-1.3	-27.18	59.75	60.14
5250	25.81	-5.88	-1.38	-3.53	10.657	15.15	-1.38	-24.05	59.41	59.7
5300	26.8	-5.72	-1.02	-3.17	11.13	15.668	-1.02	-22.49	59.2	59.59
5350	27.79	-5.56	-0.74	-2.89	11.697	16.095	-0.74	-20.23	59.54	59.91
5400	25.75	-5.89	-0.84	-2.99	10.9	14.849	-0.84	-18.57	59.75	59.82
5450	28.12	-5.51	-0.26	-2.41	12.011	16.108	-0.26	-16.91	59.32	59.84
5500	27.25	-5.65	-0.34	-2.49	11.759	15.488	-0.34	-16.01	59.13	59.04
5550	29.94	-5.24	0.24	-1.91	13.056	16.88	0.24	-14.86	59.31	59.64
5600	29	-5.38	0.14	-2.01	12.805	16.196	0.14	-14.71	59.7	59.95
5650	28.73	-5.42	0.2	-1.95	12.845	15.882	0.2	-14.67	59.69	59.84
5700	32.19	-4.92	0.72	-1.43	14.521	17.665	0.72	-14.06	59.48	60.07
5750	30.37	-5.18	0.29	-1.86	13.846	16.522	0.29	-13.53	59.3	59.61
5800	32.45	-4.89	0.53	-1.62	14.904	17.548	0.53	-12.57	59.6	60.25
5850	33.45	-4.76	0.51	-1.64	15.4	18.046	0.51	-12.33	59.91	60.34





4:Structural drawings