



深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

DM56 Antenna Report

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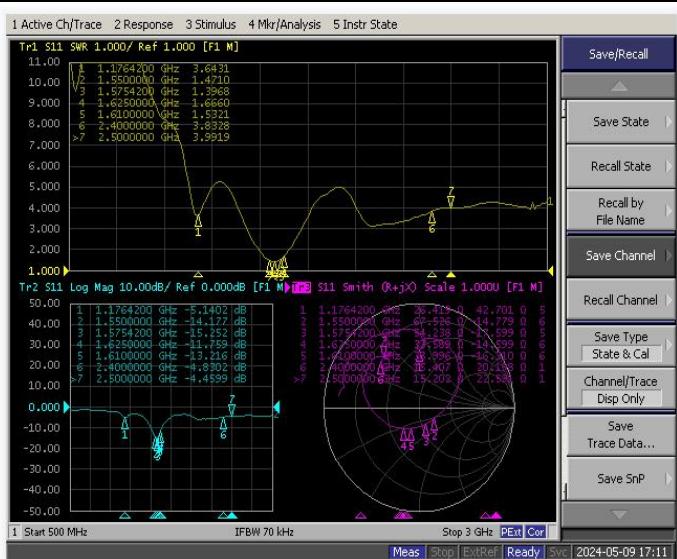
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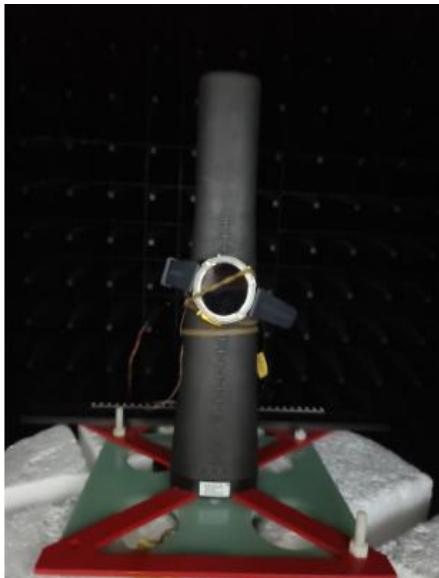
Antenna Report

Report main content Antenna preliminary commissioning report

S11 parameters of antenna without power



Darkroom test environment



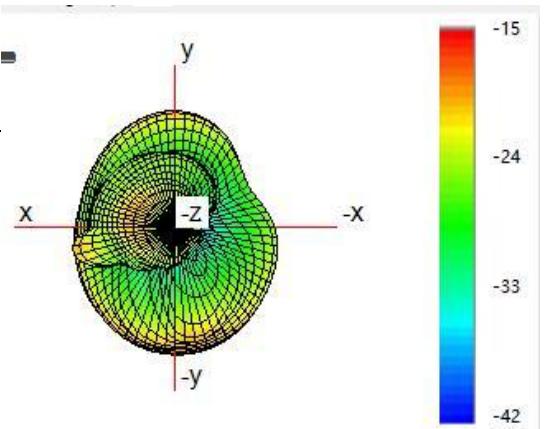
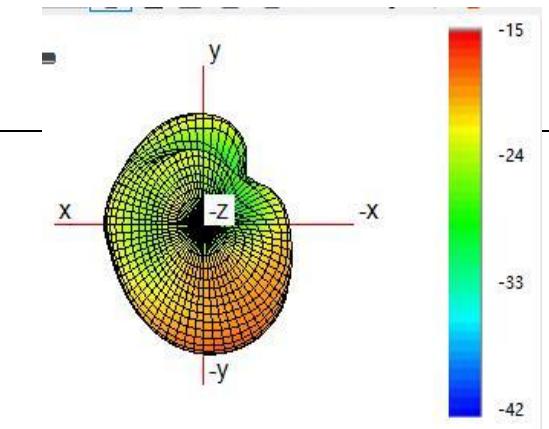
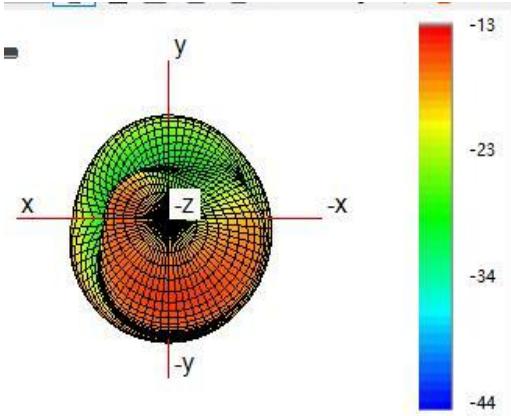
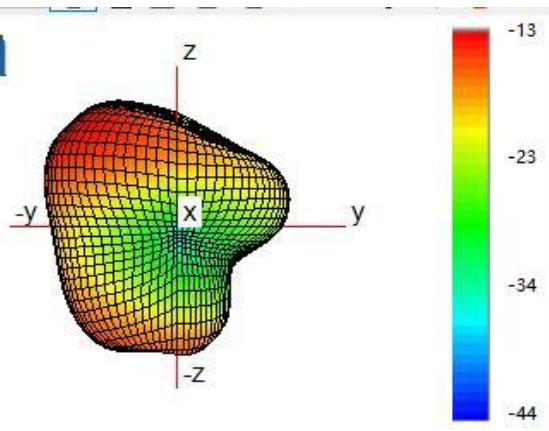
Test situation of antenna efficiency parameter

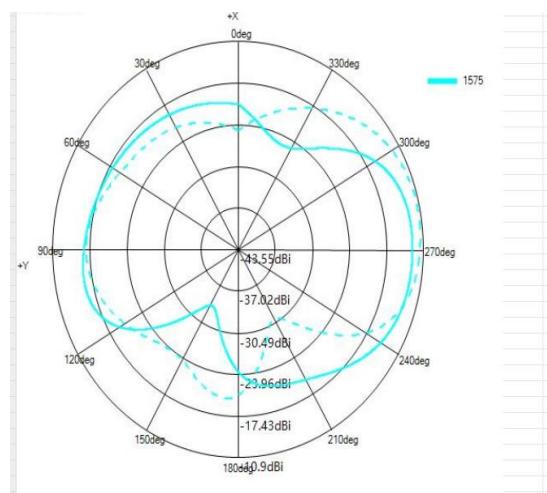
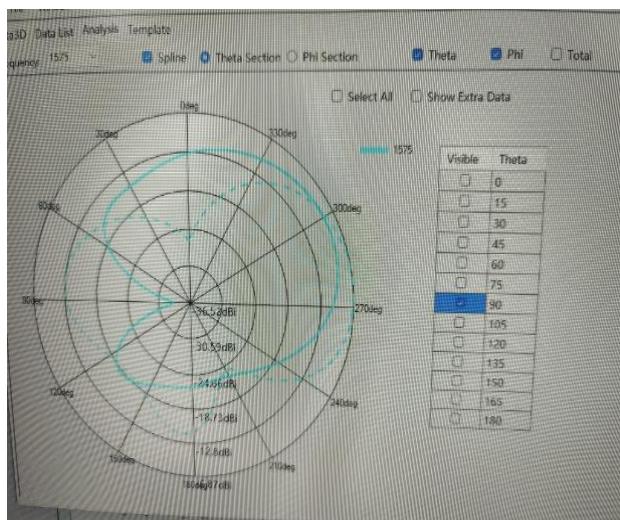
Arm test results	frequency point	gain(dBi)	productivene ss (dB)	productivene ss (dB)
	Freq (MHz)	Gain(dBi)	Efficiency (dB)	Efficiency (%)
	1150	-13.6	-15.7	2.7
	1155	-13.4	-15.1	3.1
	1160	-13.3	-14.6	3.5
	1165	-13.1	-14.4	3.6
	1170	-13.3	-14.7	3.4
	1175	-13.4	-15.1	3.1
	1180	-13.5	-15.5	2.8



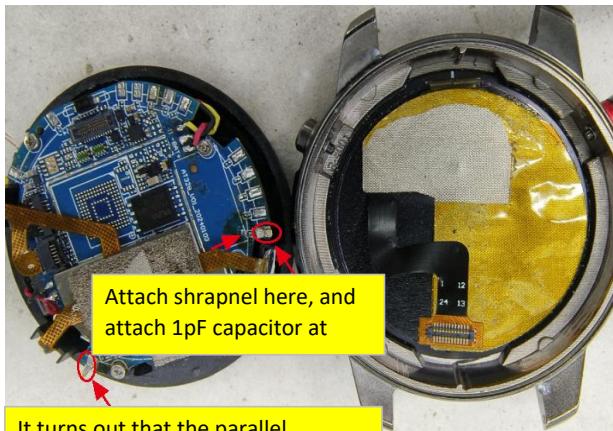
Arm test results	frequency point	gain(dBi)	productivene ss (dB)	productivene ss (dB)
	Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
	1505	-6.8	-11.5	7.1
	1515	-6.4	-11.4	7.3
	1525	-6.2	-11.3	7.4
	1535	-6.1	-11.3	7.5
	1545	-5.9	-11.2	7.6
	1555	-5.6	-11.1	7.8
	1565	-5.5	-11.1	7.9
	1575	-5.4	-10.8	8.4
	1585	-5.6	-10.9	8.2
	1595	-5.2	-10.9	8.1
	1605	-5.4	-11.0	7.9
	1615	-5.8	-11.1	7.8
	1625	-6.1	-11.2	7.7
	2400	-4.8	-13.3	4.6
	2420	-4.9	-13.5	4.5
	2440	-5.2	-13.7	4.2
	2460	-5.5	-14.0	3.9
	2480	-6.0	-14.4	3.6
	2500	-6.2	-14.4	3.5

Antenna pattern

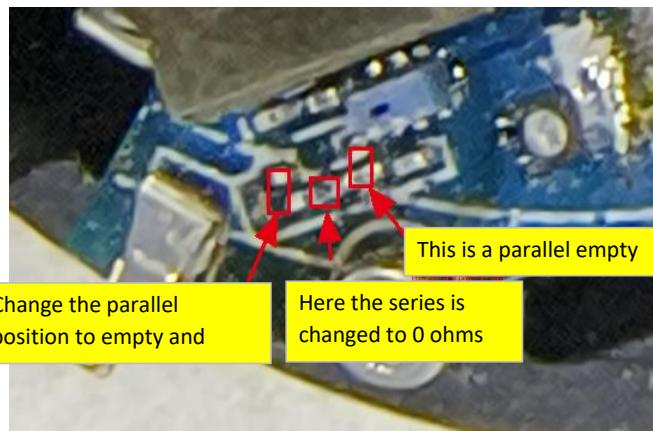




Antenna environment treatment

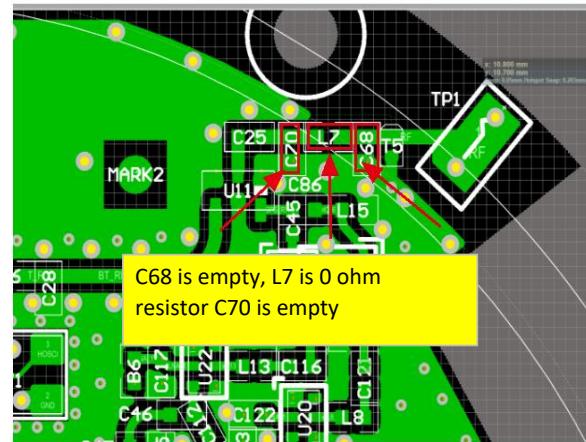


It turns out that the parallel capacitor is removed and the series inductor is changed to a 0 ohm

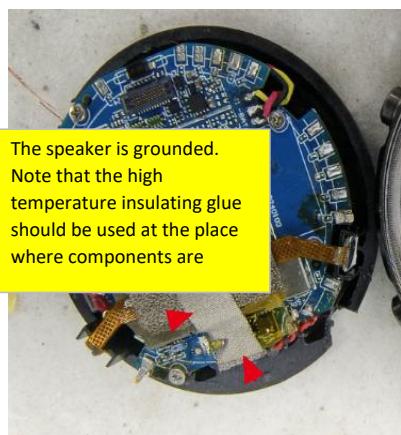
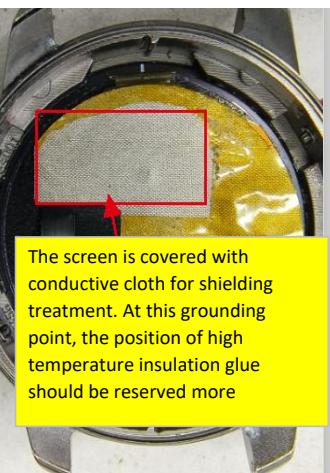
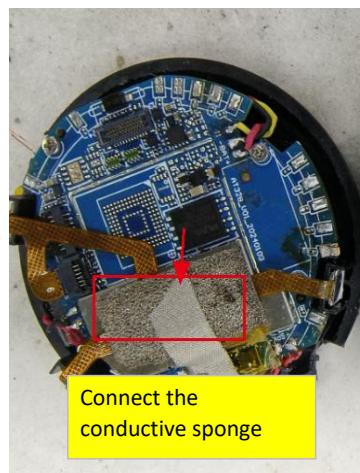
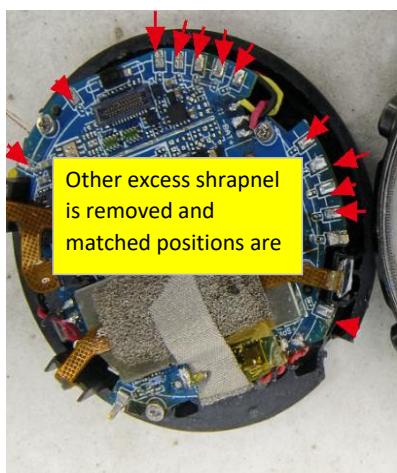


This is a parallel empty

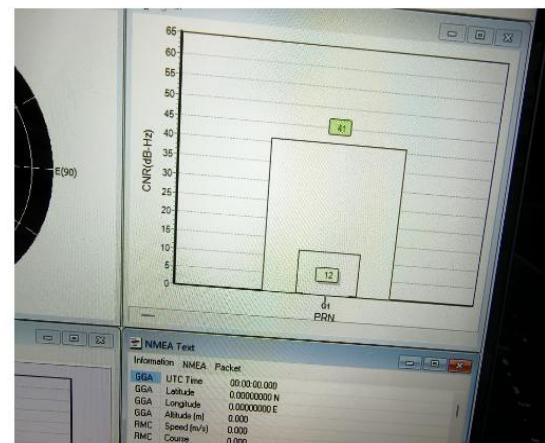
Here the series is changed to 0 ohms



实测搜星



Mainboard conduction



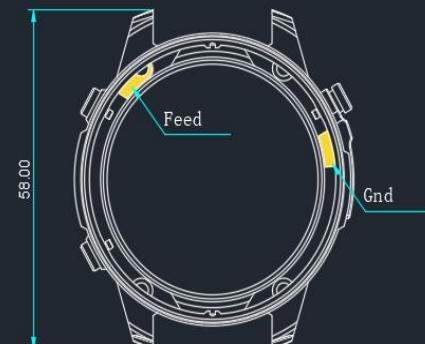
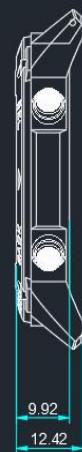
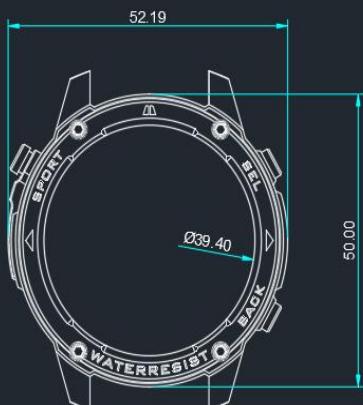
The signal of the proposed receiver is 130dBm, the loss of coaxial line is 1dBm, and the CN value of l1 signal is 41



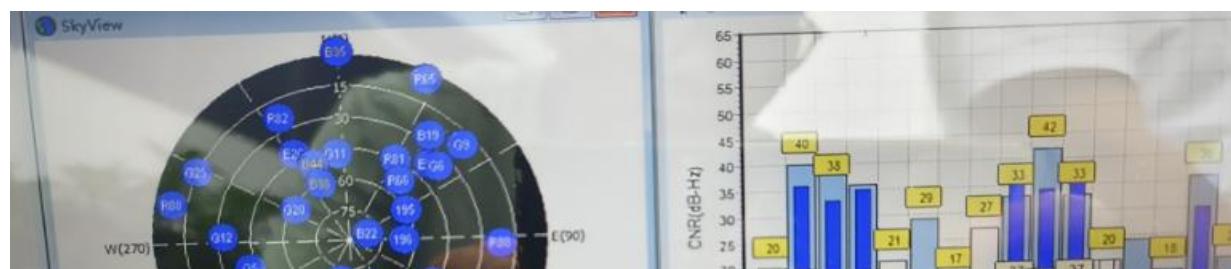
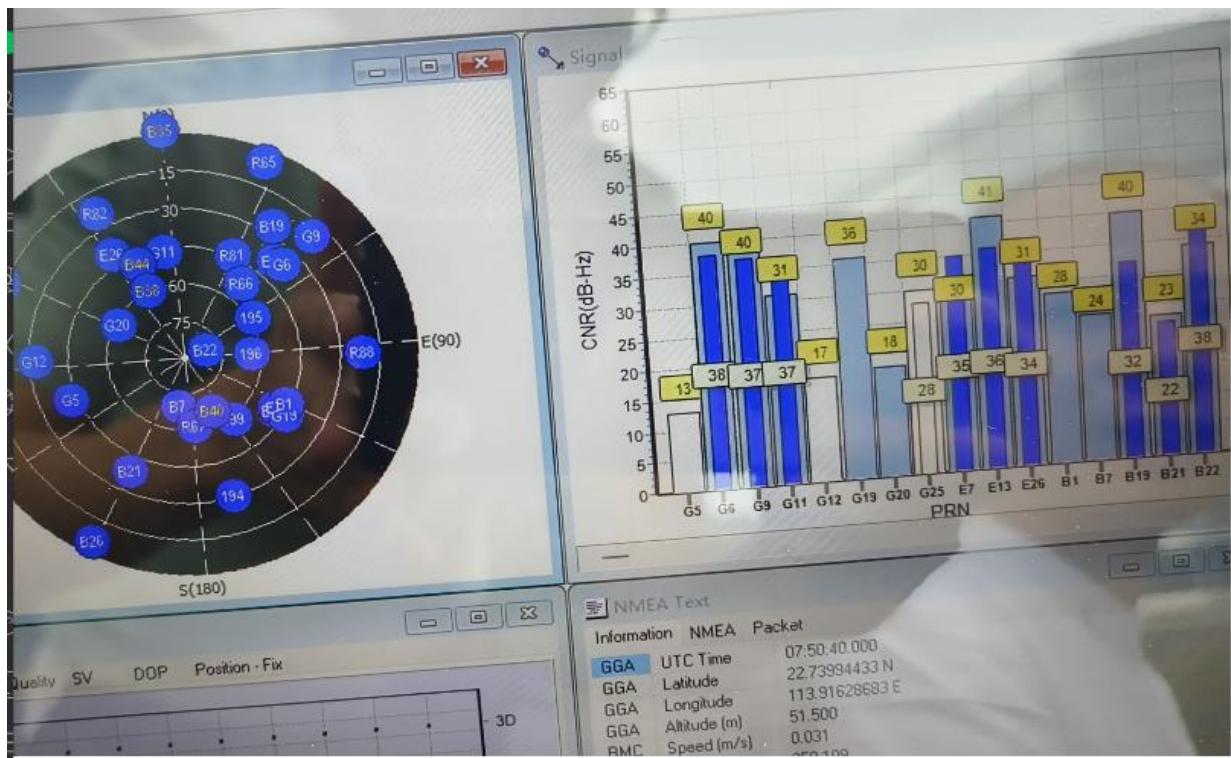
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Antenna specifications



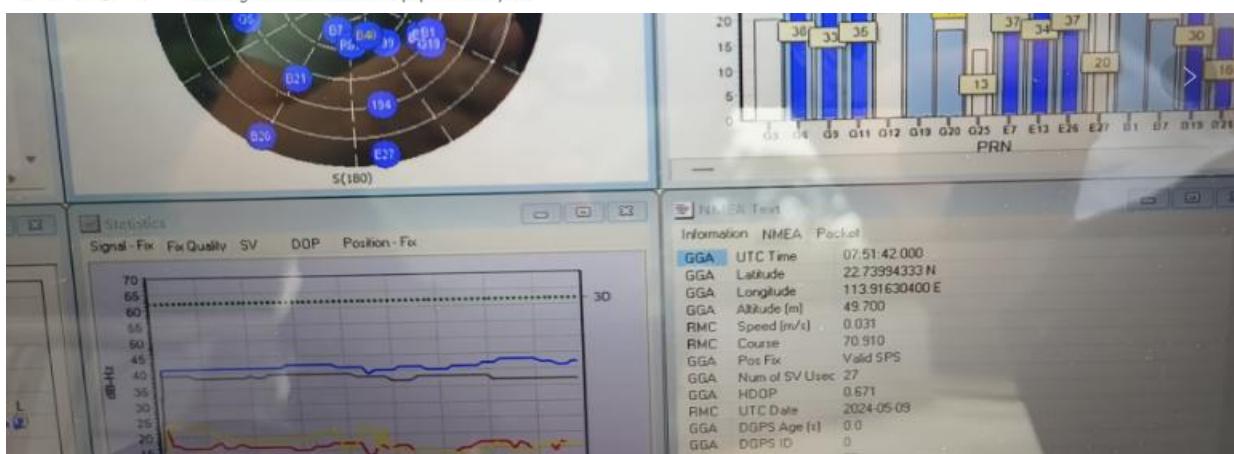
Field survey search stars





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Running, hanging down, upward position, running and hanging down posture field test effect will be better