

K3AMC3 Antenna Evaluation report _20230629

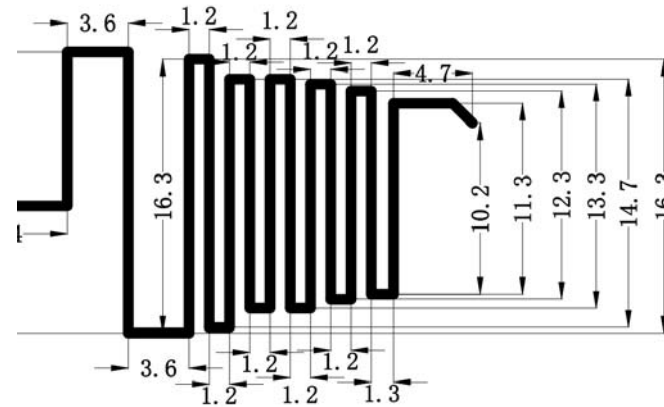
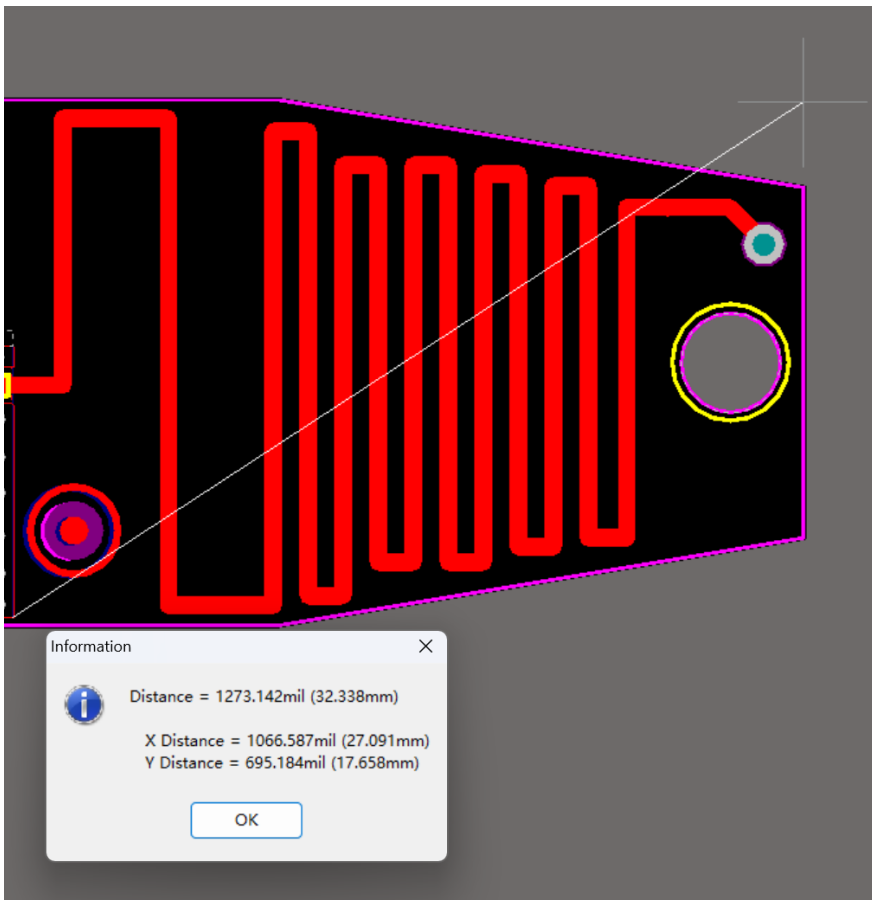
Bill.Ren
2023/06/29

Version	Time	Description
A1	2023/06/29	K3AMC3 Antenna first evaluation

➤ Content

1. Antenna impedance VSWR;
2. Antenna Efficiency;
3. Antenna Gain;
4. Antenna Radiation 3D;
5. Antenna Radiation 2D;

- Antenna information
- PCB antenna



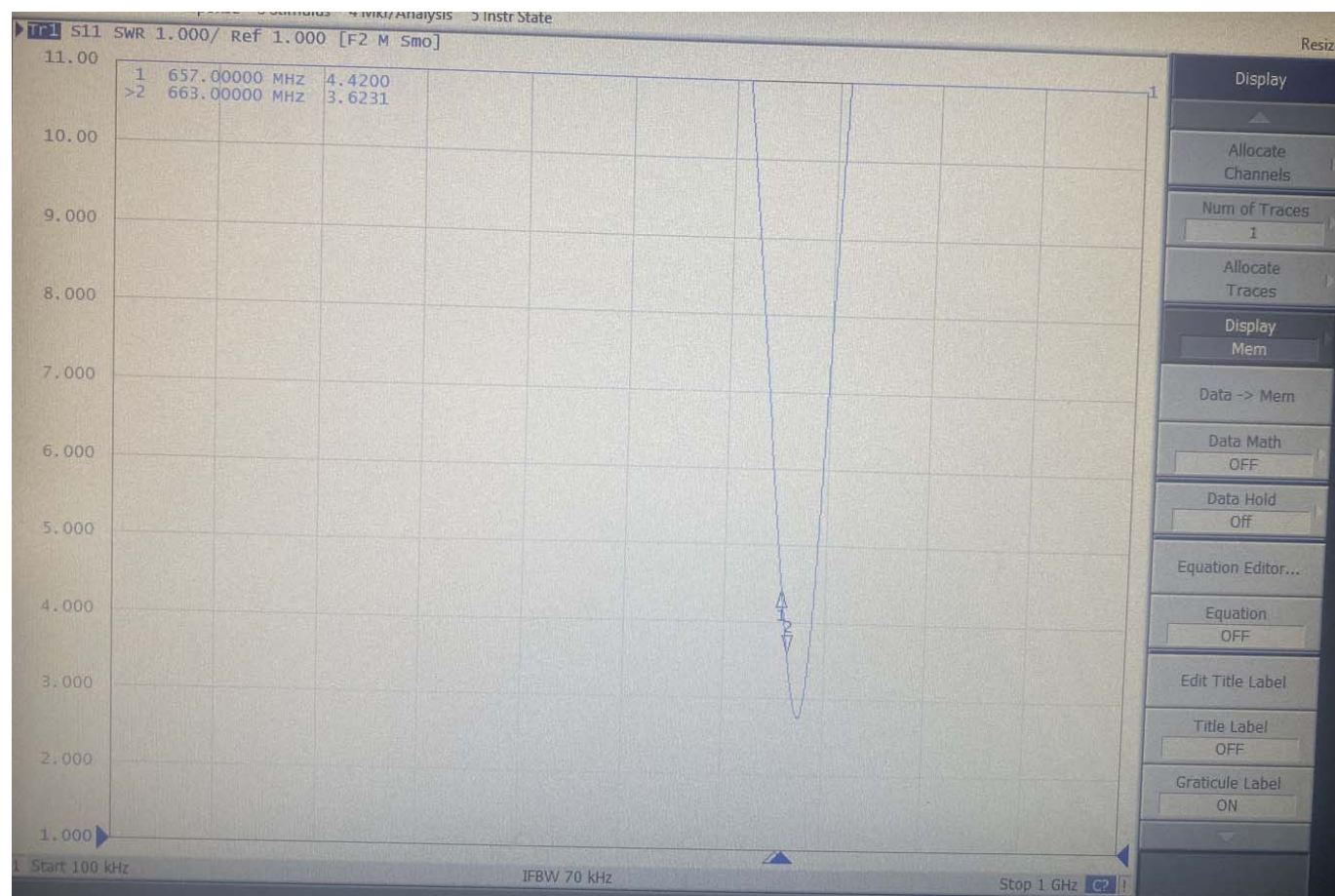
Comments

- PCB antenna
- Supplier: Shanghai Loostone Information Technology Co., Ltd.
- Address: Room 601, Building 9, No. 351, Sizhuan Road, Sijing Town, Songjiang District, Shanghai, China

Antenna VSWR as below:

Comments

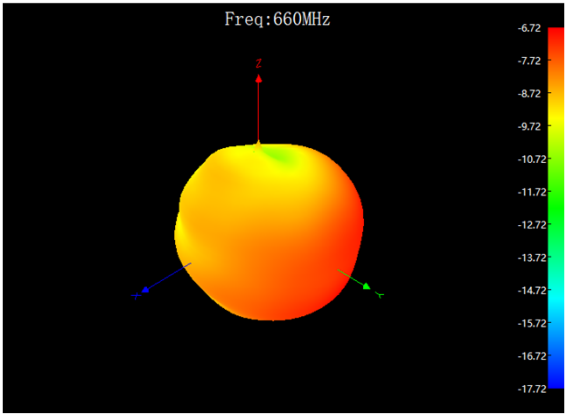
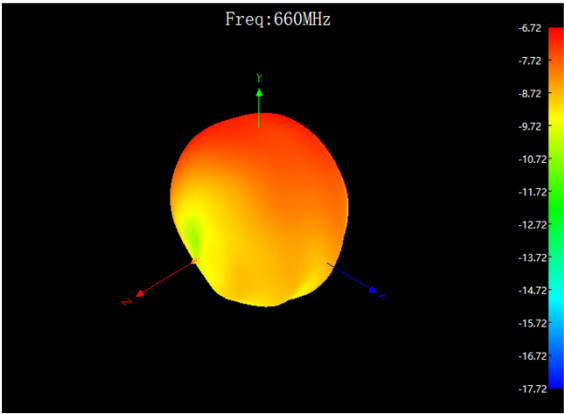
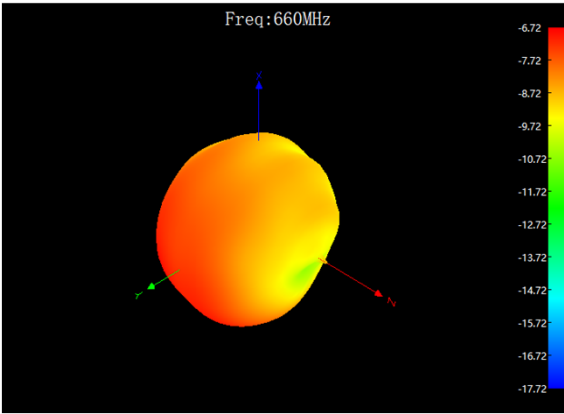
- VSWR
- 657MHz: 4.4
- 663MHz: 3.6



Efficiency and Gain:

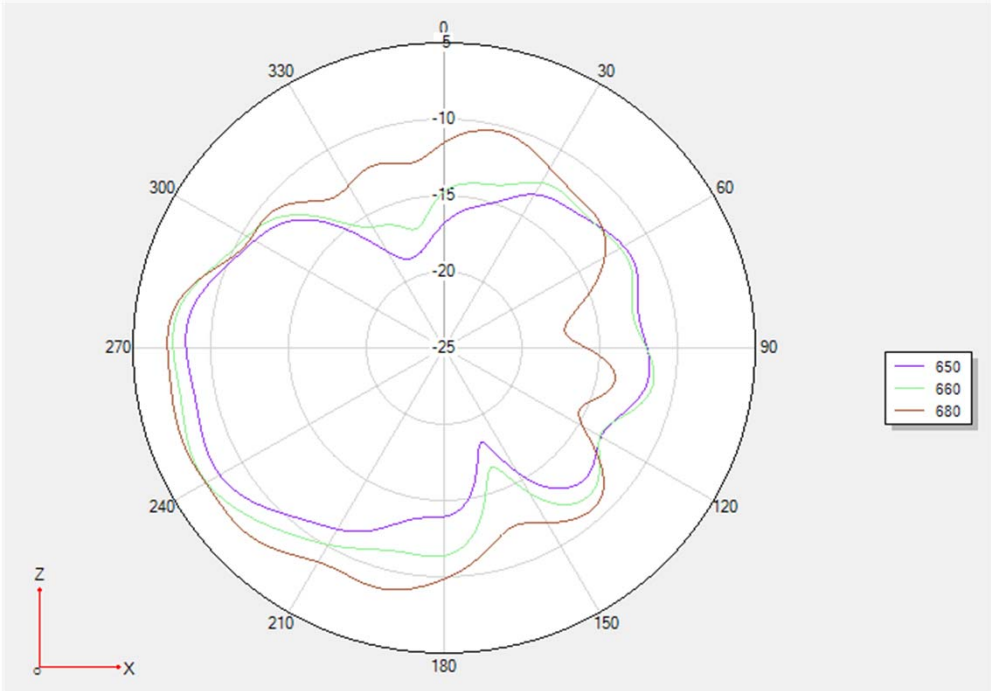
Frequency/MHz	Efficiency / dB	Efficiency / %	MaxGain/dBi	AvgGain/dBi
650	-12.3	5.89	-7.57	-12.3
651	-11.8	6.61	-7.07	-11.8
652	-11.35	7.33	-6.56	-11.35
653	-11.14	7.69	-6.34	-11.14
654	-11.28	7.45	-6.49	-11.28
655	-11.63	6.87	-6.89	-11.63
656	-11.92	6.43	-7.19	-11.92
657	-12.02	6.28	-7.28	-12.02
658	-11.91	6.44	-7.2	-11.91
659	-11.65	6.84	-6.97	-11.65
660	-11.37	7.29	-6.72	-11.37
661	-11.1	7.76	-6.47	-11.1
662	-11.01	7.93	-6.38	-11.01
663	-11.06	7.83	-6.45	-11.06
664	-11.09	7.78	-6.52	-11.09
665	-10.99	7.96	-6.43	-10.99
666	-10.89	8.15	-6.33	-10.89
667	-10.67	8.57	-6.12	-10.67
668	-10.46	8.99	-5.93	-10.46
669	-10.42	9.08	-5.93	-10.42
670	-10.6	8.71	-6.13	-10.6
671	-10.79	8.34	-6.32	-10.79
672	-10.98	7.98	-6.48	-10.98
673	-11.03	7.89	-6.48	-11.03
674	-10.9	8.13	-6.34	-10.9
675	-10.61	8.69	-6.06	-10.61
676	-10.42	9.08	-5.92	-10.42
677	-10.31	9.31	-5.78	-10.31
678	-10.37	9.18	-5.85	-10.37
679	-10.58	8.75	-6.13	-10.58
680	-10.87	8.18	-6.51	-10.87

Radiation 3D:

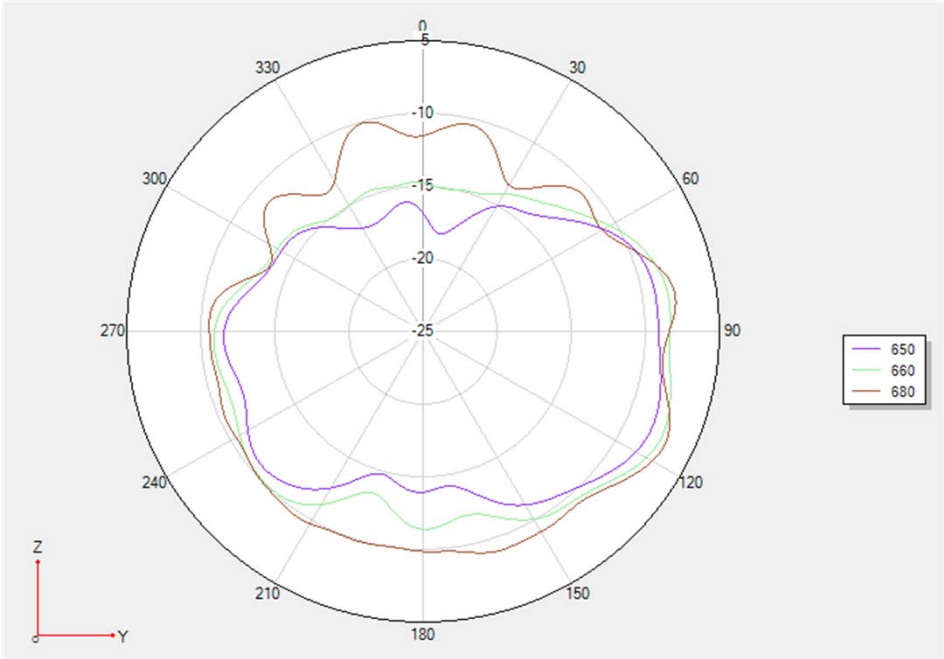


Radiation 2D:

$\Phi=0^\circ$



$\Theta=90^\circ$



THANK YOU !