

APPROVAL SHEET

MQM711 LGA Module PCB Antenna

Halogens Free Product

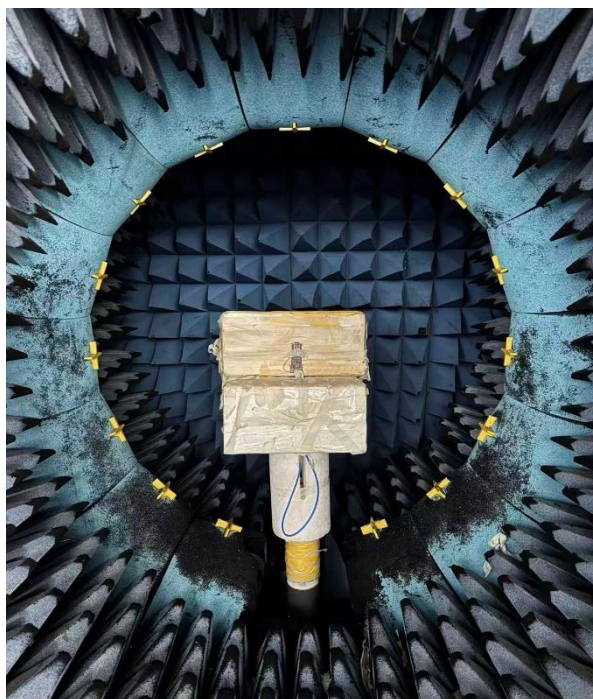
P/N: RFIQM0711010NB001

*Contents in this sheet are subject to change without prior notice.

1 Antenna Electrical specifications

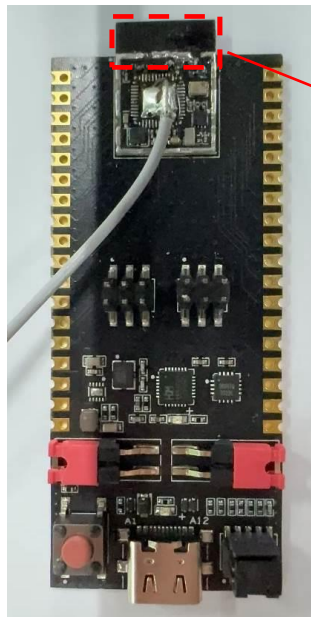
1.1 Measurement Information

1.1.1 Experimental Setup



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DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
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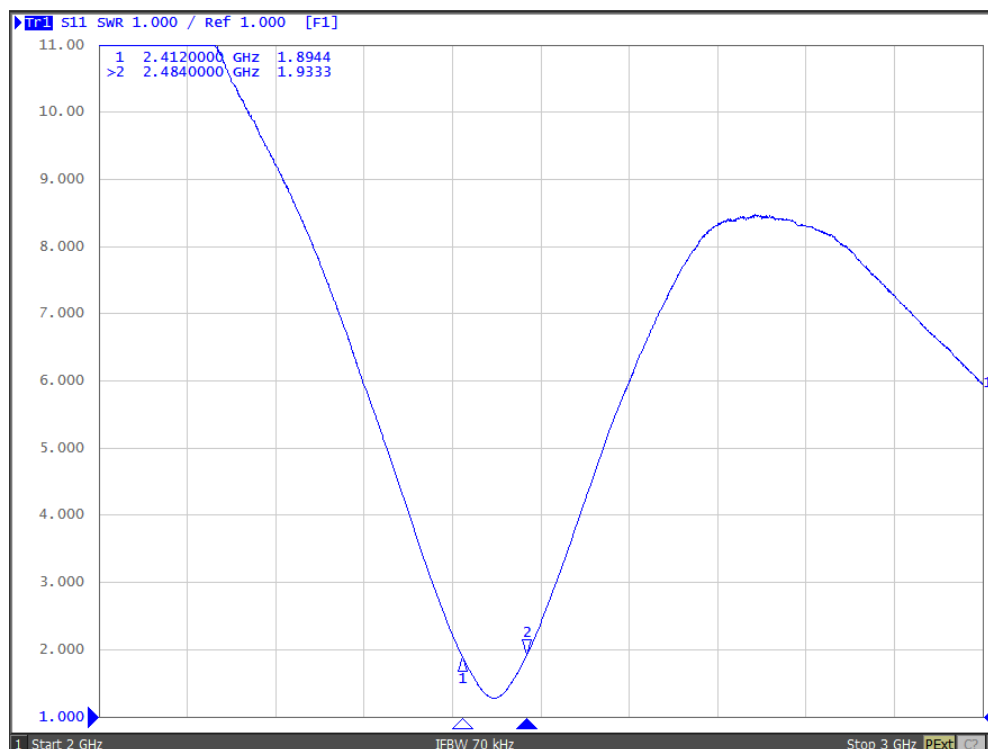
1.1.2 Antenna Solution Detail



Printed antenna design
Tiny height: 4mm

1.2 Antenna Characteristics: Passive and Active

1.2.1 VSWR



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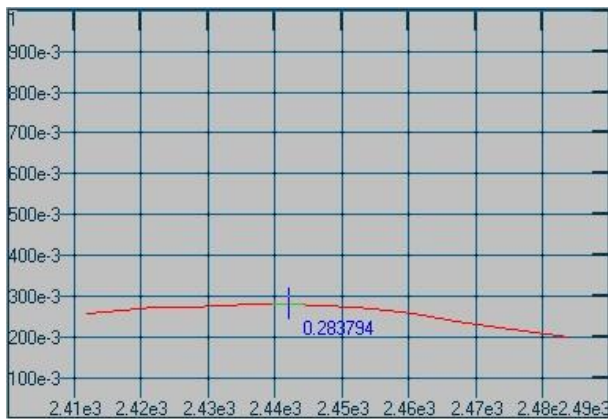
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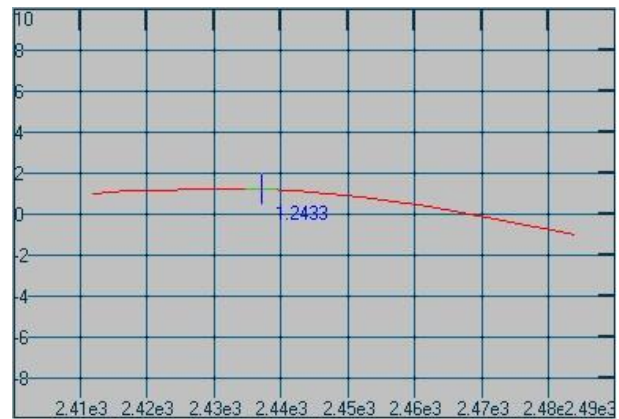
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1.2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2442 MHz : 28.38%



Maximum Peak Gain at 2437 MHz : 1.24dBi

Frequency(MHz)	Efficiency(%)	Peak gain(dBi)
2412	26.05	1.07
2417	26.76	1.18
2422	27.37	1.23
2427	27.62	1.24
2432	27.97	1.24
2437	28.33	1.24
2442	28.38	1.19
2447	27.77	1.03
2452	27.32	0.89
2457	26.62	0.69
2462	25.49	0.42
2467	24.16	0.11
2472	22.95	-0.19
2484	20.26	-0.92

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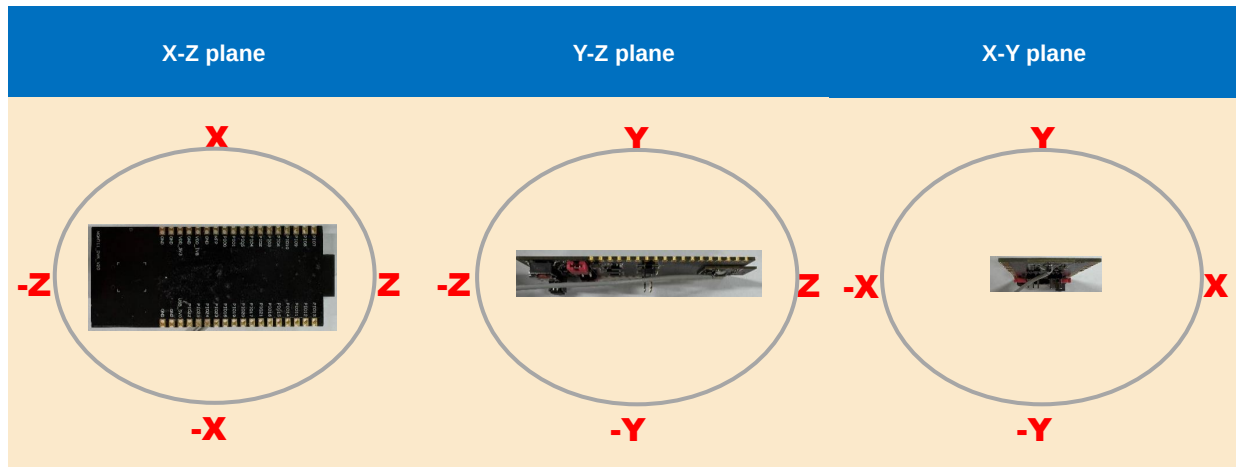
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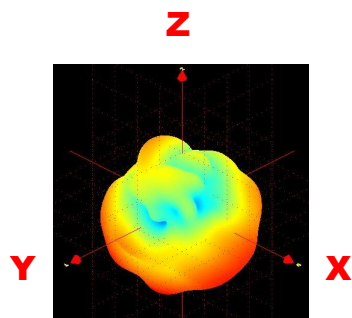
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1.2.3 3D Pattern & 3 views of antenna & 2D Radiation

Patterns

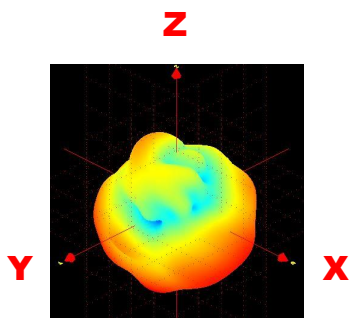


2412MHz



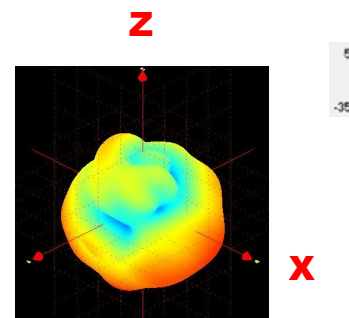
Peak gain 1.07dBi
-5.84dBi

2442MHz

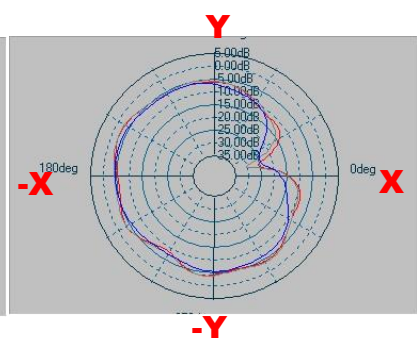
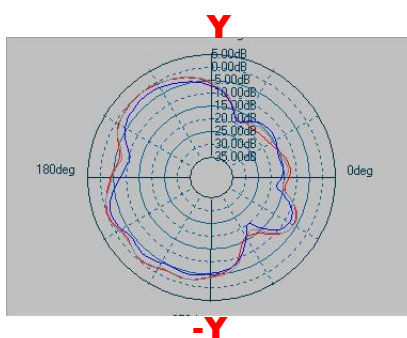
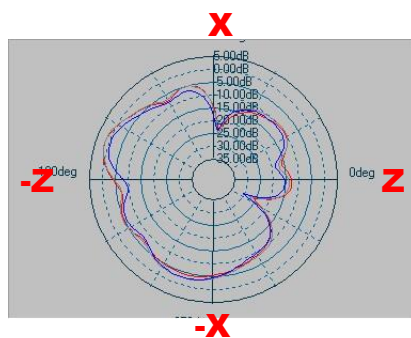


Peak gain 1.19dBi
-5.47dBi

2484MHz



Peak gain -0.92dBi
-6.93dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2412	1.07	-6.34	-0.62	-4.83	-3.22	-6.49
2442	1.19	-5.92	-0.26	-4.74	-2.98	-6.12
2484	-0.93	-7.34	-1.73	-6.68	-4.59	-7.46

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