

APPROVAL SHEET

QCC744M LGA Module

Halogens Free Product

P/N: RFIQM0744010NB001

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

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

品名：RFIQM0744010NB001

History List

[illegible]

Device description

Powered by Qualcomm all-in-one 1x1 2.4 GHz Wi-Fi 6/ Bluetooth/802.15.4 combo all-in-one SoC QCC744, Qualcomm QCC744M LGA module is purposely designed to pack processing capabilities, Wi-Fi/Bluetooth/802.15.4 combo connectivity, and on-module memory into a single 46-pin LGA form factor.

Key features

Pin compatible designs

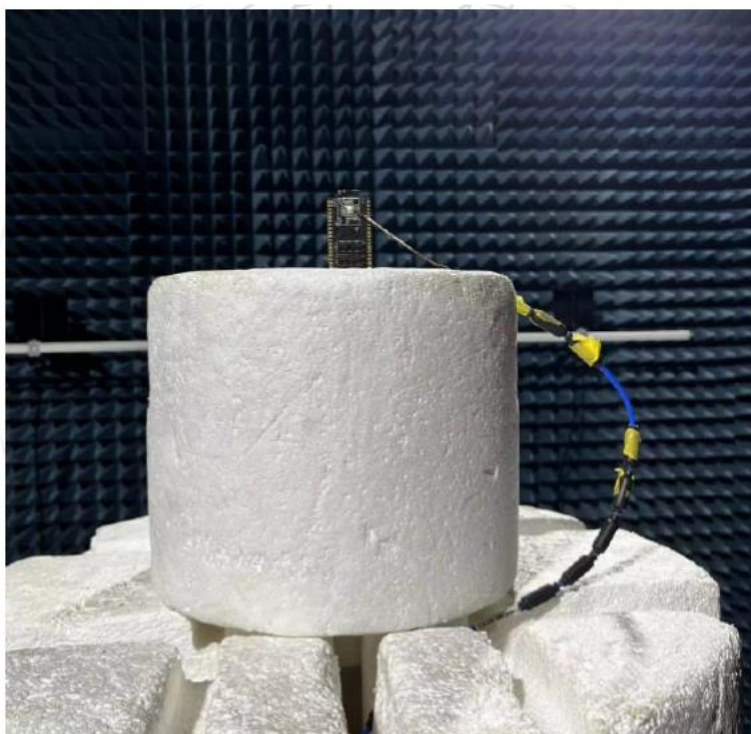
QCC744M LGA module PCB antenna: 14.82 x 23.63 x 2.2 mm, 1.27 mm pitch, 46-pin, 4-side LGA (4-layer PCB)

UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A			INPAQ TECHNOLOGY CO., LTD.	
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DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮			
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4 Antenna Electrical specifications

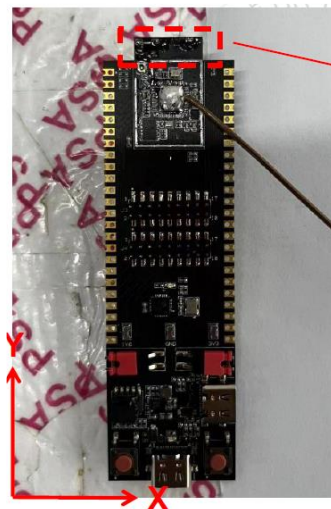
4.1 Measurement Information

4.1.1 Experimental Setup



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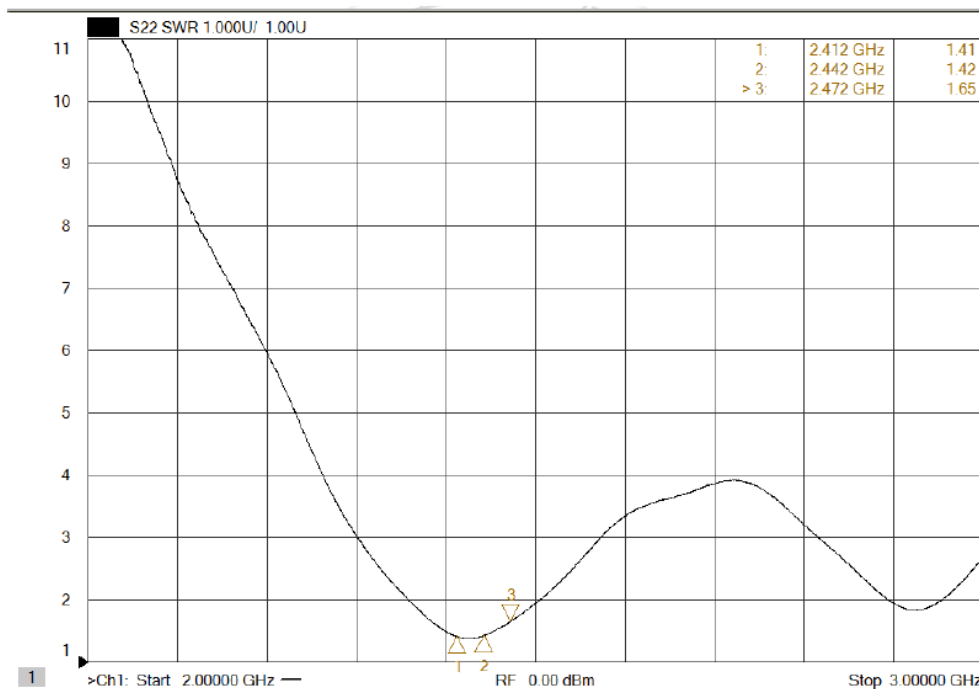
4.1.2 Antenna Solution Detail



Printed antenna design
Tiny height: 5mm
Good performance

4.2 Antenna Characteristics: Passive and Active

4.2.1 VSWR



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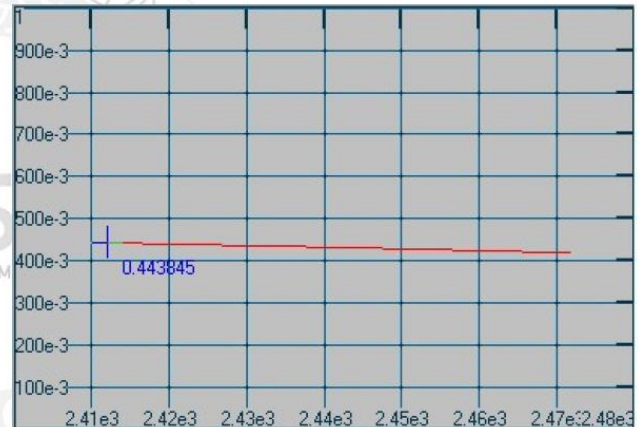
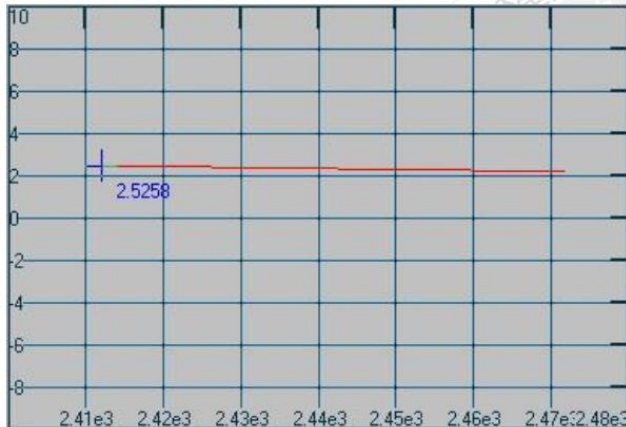
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4.2.2 Antenna Efficiency and Peak Gain



Frequency(MHz)	Efficiency(%)	Peak gain(dBi)
2412	44.38	2.52
2417	44.21	2.50
2422	44.01	2.48
2427	43.84	2.46
2432	43.66	2.43
2437	43.48	2.41
2442	43.29	2.38
2447	43.08	2.36
2452	42.88	2.34
2457	42.67	2.32
2462	42.44	2.29
2467	42.24	2.27
2472	42.03	2.24
2484	41.94	2.22

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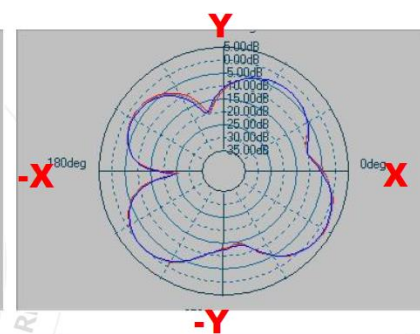
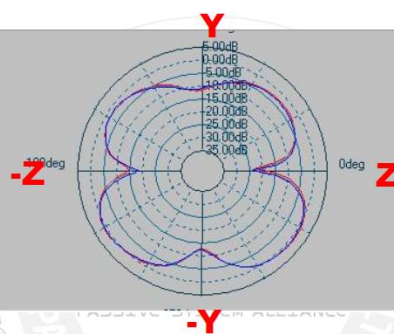
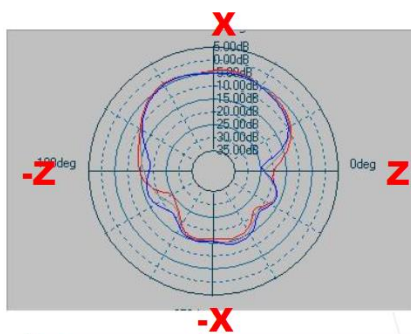
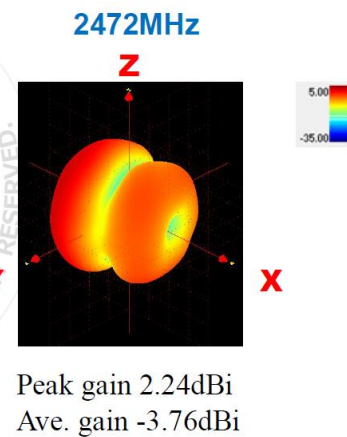
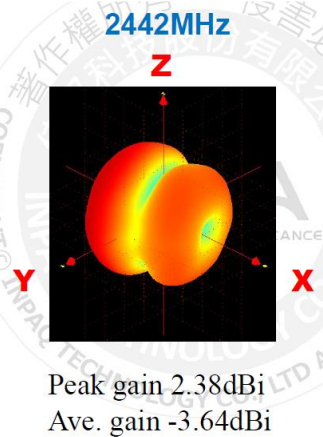
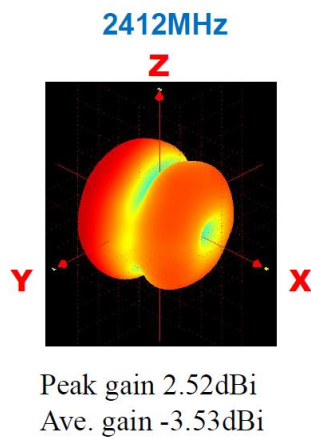
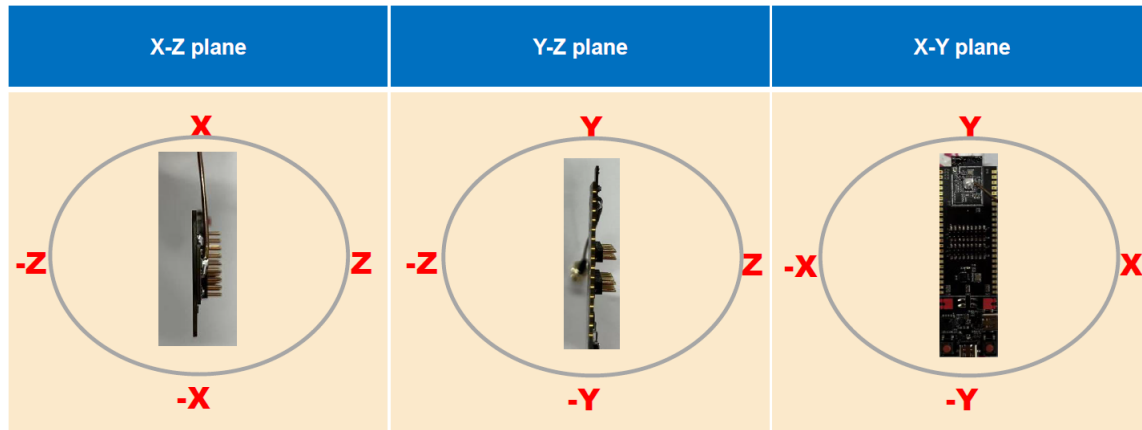
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4.2.3 3D Pattern & 3 views of antenna & 2D Radiation

Patterns



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2412	-4.05	-9.62	1.19	-3.27	2.45	-3.65
2442	-4.38	-9.91	0.91	-3.46	2.36	-3.74
2472	-4.87	-10.20	0.79	-3.56	2.05	-3.98

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