

HONANT

QCY H3-Pro Antenna RF R&D report V1

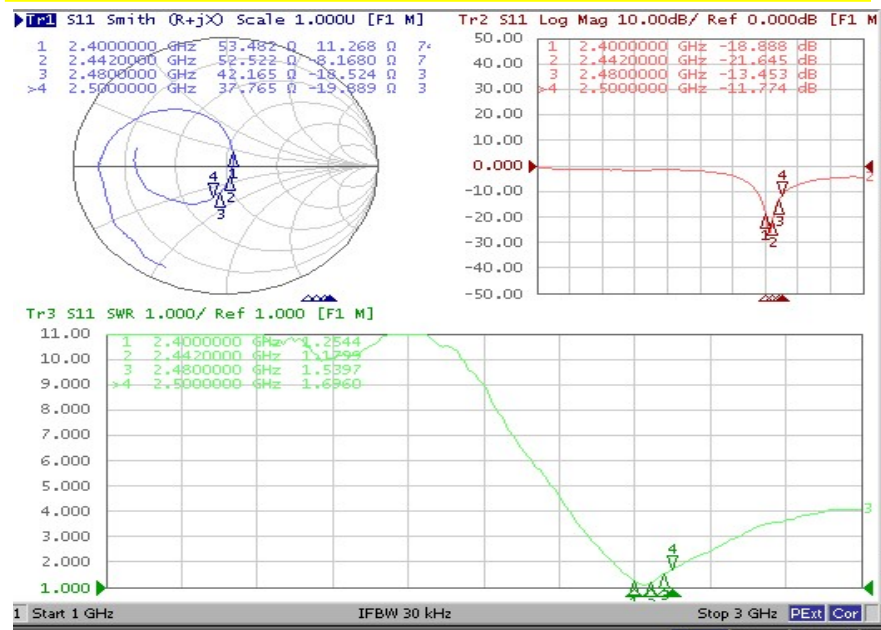
The main purpose of this report is to test and verify

Main conclusions of this report:

Highlights of this report:

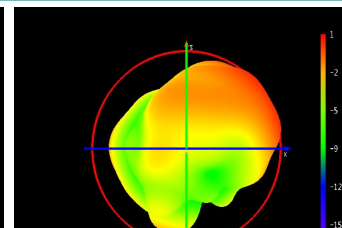
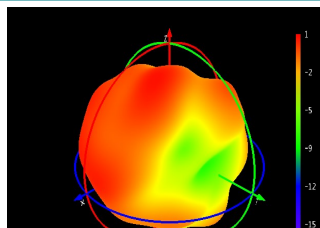
Antenna impedance parameter test

Passive standing wave pattern

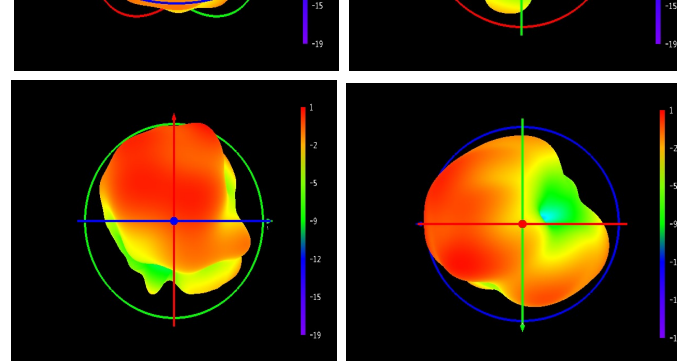


Antenna passive efficiency test (with 3D&2D pattern)

frequency	gain(dBi)	efficiency(dB)	efficiency (%)
2400	0.71	-2.28	59.16
2410	0.77	-2.23	59.81



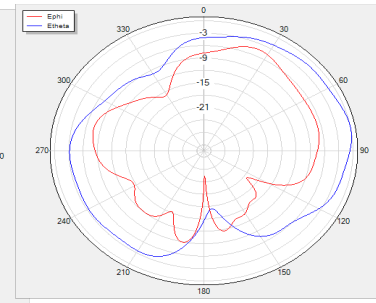
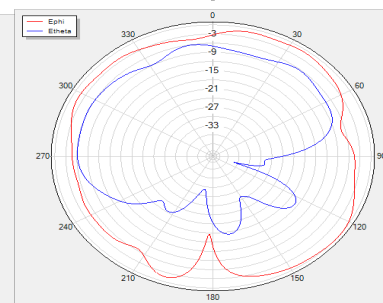
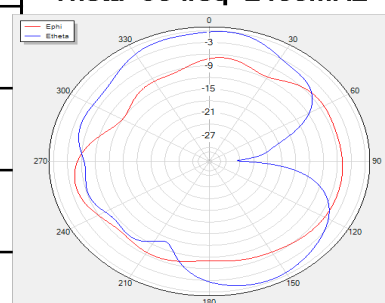
2420	0.86	-2.22	59.98
2430	0.97	-2.25	59.58
2440	1.08	-2.3	58.91
2450	1.22	-2.29	59.04
2460	1.37	-2.25	59.6
2470	1.45	-2.22	60.02
2480	1.47	-2.18	60.57
2490	1.43	-2.15	61
2500	1.31	-2.15	60.89
average value	1.10	-2.25	59.63



Theta=90 freq=2400MHz

Phi=90 freq=2400MHz

Phi=0 freq=2400MHz



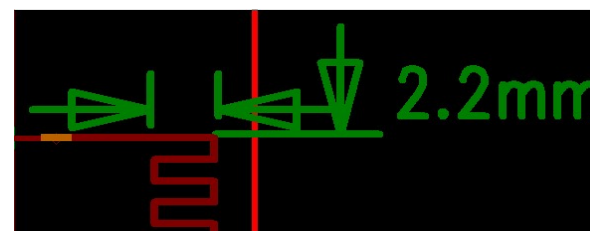
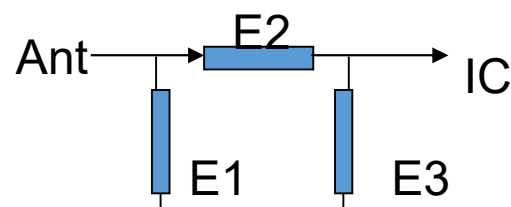
Active test data of the whole machine

OTA test data			
freedom	Channel	TRP (dBm)	TIS (dBm)
FS	CH 0	6.6	-92.83
	CH 39	7.06	-93.43
	CH 78	6.85	-93.82

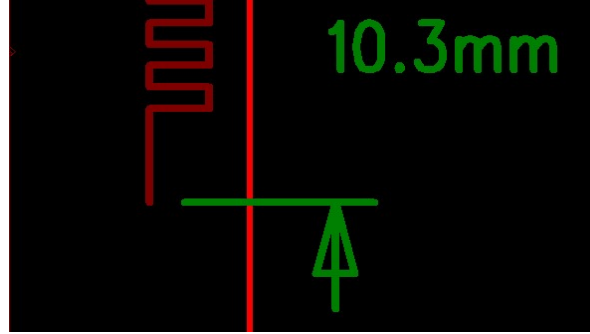
OTA test data			
headform	Channel	TRP (dBm)	TIS (dBm)
BH	CH 0	5.53	-91.33
	CH 39	6.37	-93.12
	CH 78	6.22	-92.89

Antenna matching circuit

Antenna size L=10.3mm W=2.2mm



Element	Value
E1	N/A
E2	0R
E3	1.2pf



conclusion

The passive performance and OTA data of the whole antenna are very good

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