

ANWEI commnuication Equipment Co.,Ltd

APPROVAL SHEET

Customer	Lie Dong	Specs	X2
Part Number	AW006-X2-021-A0	Frequency Band	GPS: L1:1575.42MHZ,L5:1176.45MHZ BT:2400~2500MHZ
Color	Black	Edition	REV:A0
Salesperson	Mr.Xie	Design	ZHONG ZHI HUI
Structure	QIN YUN LIN	Confirm	
Date	2024/08/13	Signing Date	
Customer confirmation:			
ANT Manufacturers: ANWEI commnuication Equipment Co.,Ltd Address:2nd Floor, East Block, Building 5, Yifenghua Innovation Industrial Park, Huaning Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province			

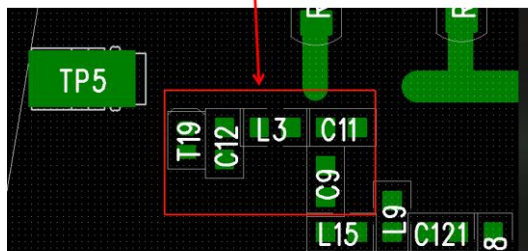
(GPS antenna)

(Working frequency band): L1:1575.42MHZ,L5:1176.45MHZ

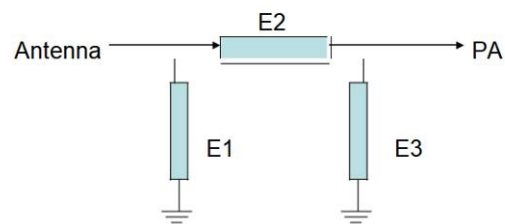
(Matcheing network):



he original match has not been changed



GPS antenna matching circuit

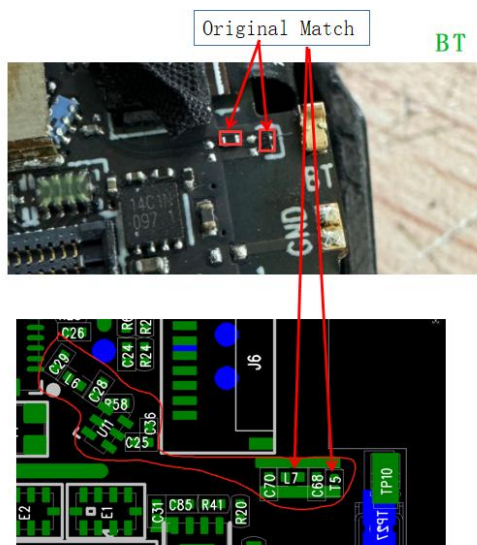


Element	Value
E0 T19	Original Match
E1 C12	Original Match
E2 L3	Original Match
E3 C11	Original Match
E4 C9	Original Match
E5 L15	Original Match

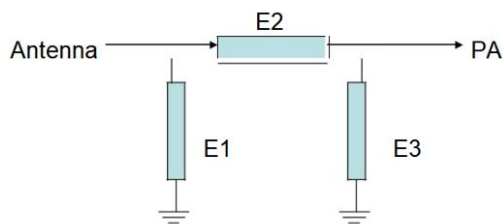
(BT antenna)

(Working frequency band): 2400~2500MHZ

(Matcheing network):



BT antenna matching circuit



Element	Value
E0 T5	Original Match
E1 C68	NC
E2 L7	0Ω Original Match
E3 C70	NC

(GPS Test)

1# GPS measurement effect



As shown in the figure: The left hand test results are shown in the left figure.

As shown in the figure: The results of the right-handed test are shown in the figure on the right.



As shown in the figure: The free test results are shown in the left figure.

(BT Test)

1# BT test results

X2 watch	IPHONE 15PRO MAX Test	Honor 30 POR+ test
Phone call with watch facing away from phone test results	4~4.5 meters	3.3~3.5meters
Phone call, watch facing your phone, test results	9meters	10meters
Listening to music, watch with back to phone test results	12meters	12meters

(Efficiency gain of GPS , antenna):

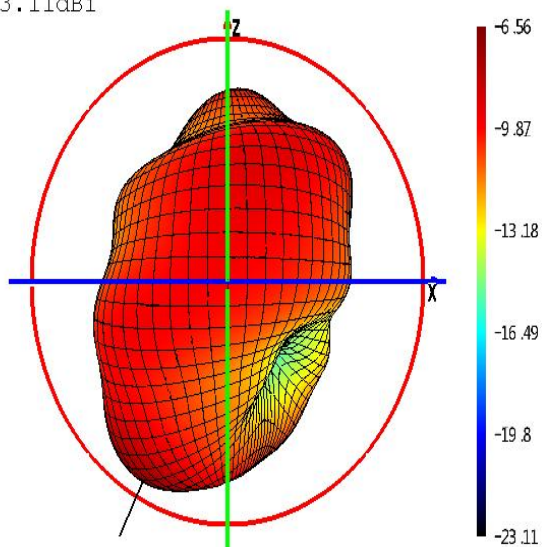
Frequency ID	1	2
Frequency (MHz)	1176.449951	1575.420044
Gain (dBi)	-6.56	-1.11
Efficiency (%)	8.33	28.95

(Efficiency gain of BT , antenna):

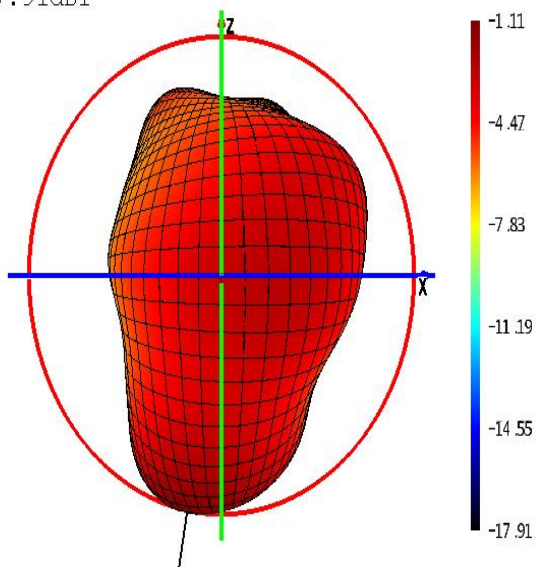
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-4.22	-3.74	-3.72	-4.78	-5.25	-5.13	-5.02	-6.25	-5.11	-5.38	-5.41
Efficiency (%)	11.08	11.42	10.22	8.33	7.80	7.42	7.45	5.70	6.84	6.20	6.26

GPS antenna apple map

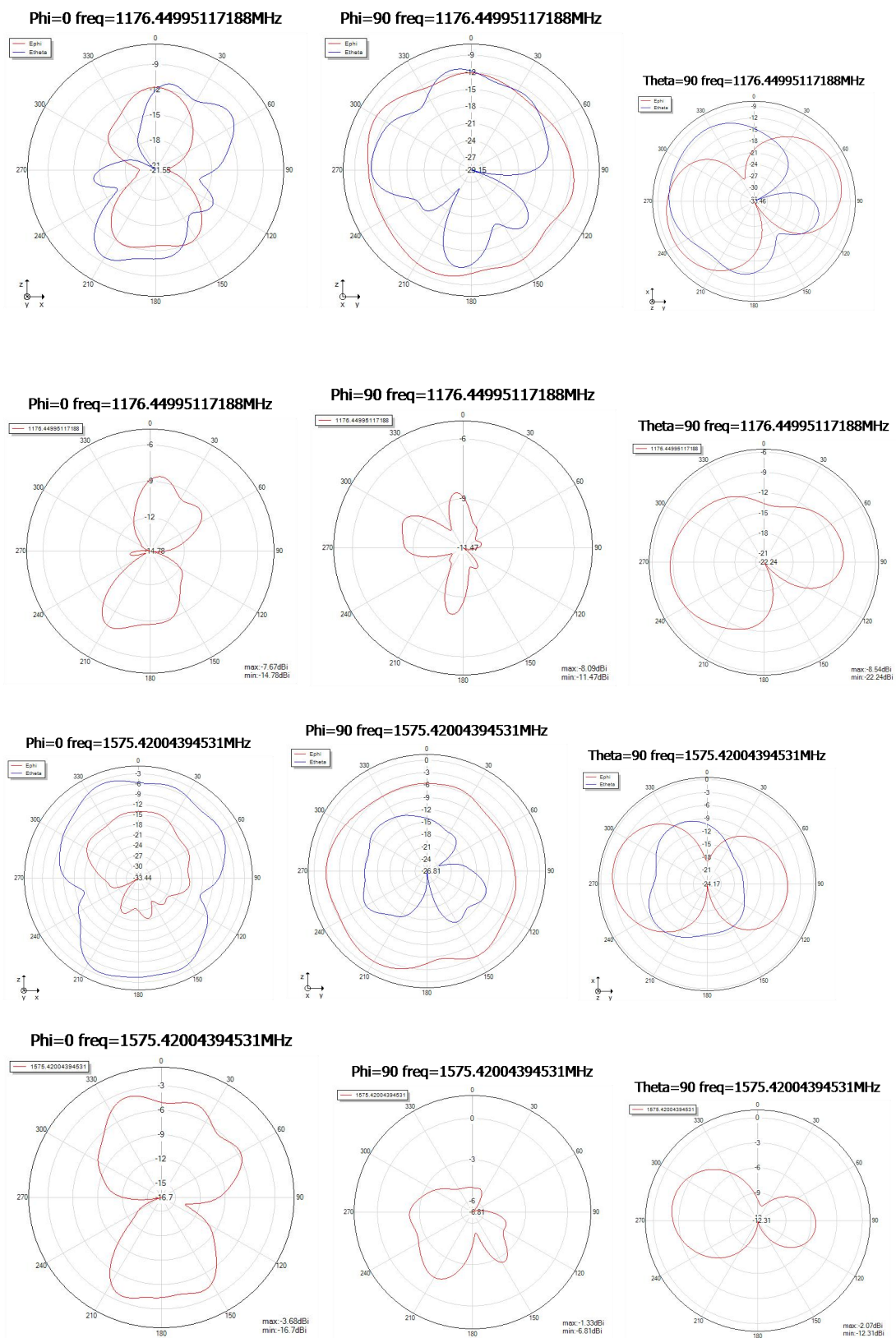
MAX:-6.56dBi
MIN:-23.11dBi



MAX:-1.11dBi
MIN:-17.91dBi

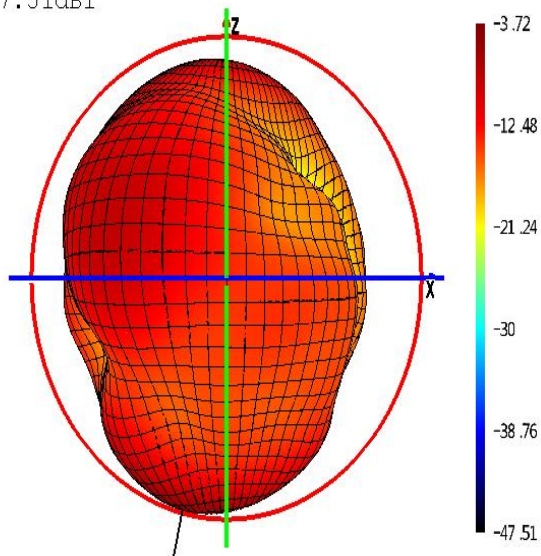


(GPS antenna) PolarGraphs/EtotalGraphs

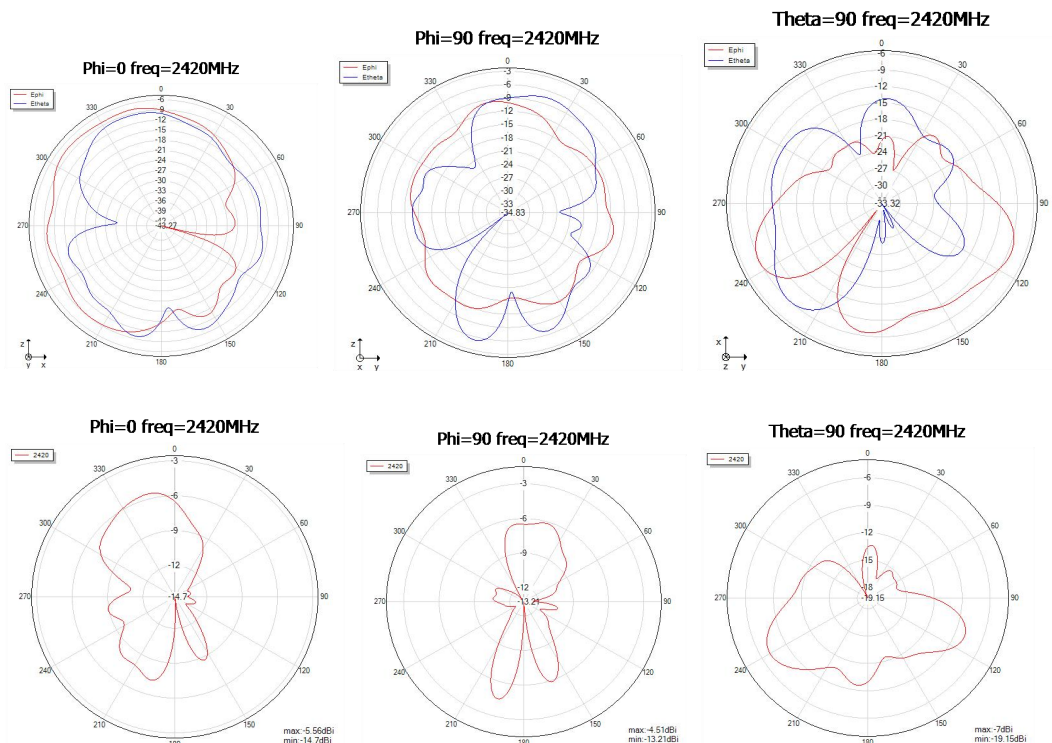


(2.4G BT antenna) apple Map

MAX:-3.72dBi
MIN:-47.51dBi



(2.4G BT Antenna) PolarGraphs/EtotalGraphs

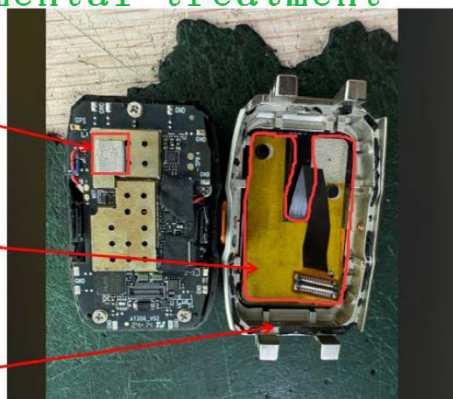


Environmental treatment

As shown in the picture:
Apply conductive foam
here for good grounding
treatment

As shown in the figure:
First, attach a
conductive cloth to
this part of the screen
and ground it well with
the motherboard.

As shown in the picture,
high-temperature
insulation tape is
attached to this part
of the screen to
prevent short circuits.



Assembly diagram of GPS and BT antenna

As shown in the figure,
the GPS antenna is well
connected to the metal
frame with this spring
foot. Please note that
the corresponding metal
frame should be laser
engraved.

As shown in the figure,
the BT antenna uses this
spring foot to have good
conductivity with the
metal frame. Please note
that the corresponding
metal frame should be
laser engraved.

