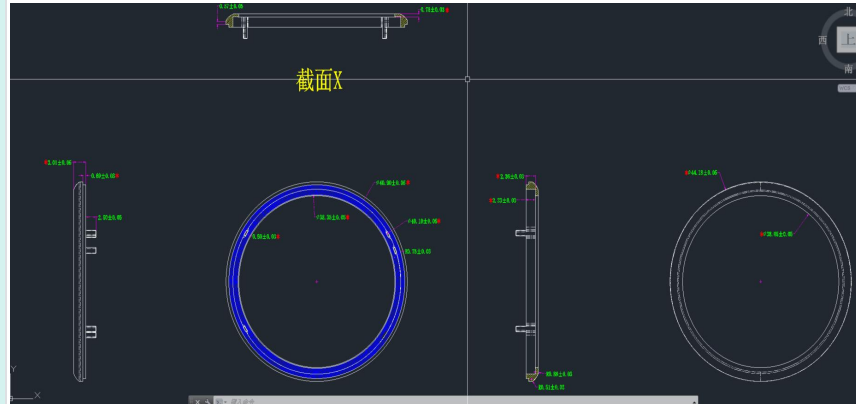


MWR01 Antenna Report

The main content of the report

Initial debugging results: 1. Efficiency of L1Arm GPS antenna was adjusted to approximately 9%, and L5Arm GPS antenna efficiency was adjusted to approximately 6%. 2. Efficiency of Arm BT antenna was adjusted to approximately 6%.

Antenna Size



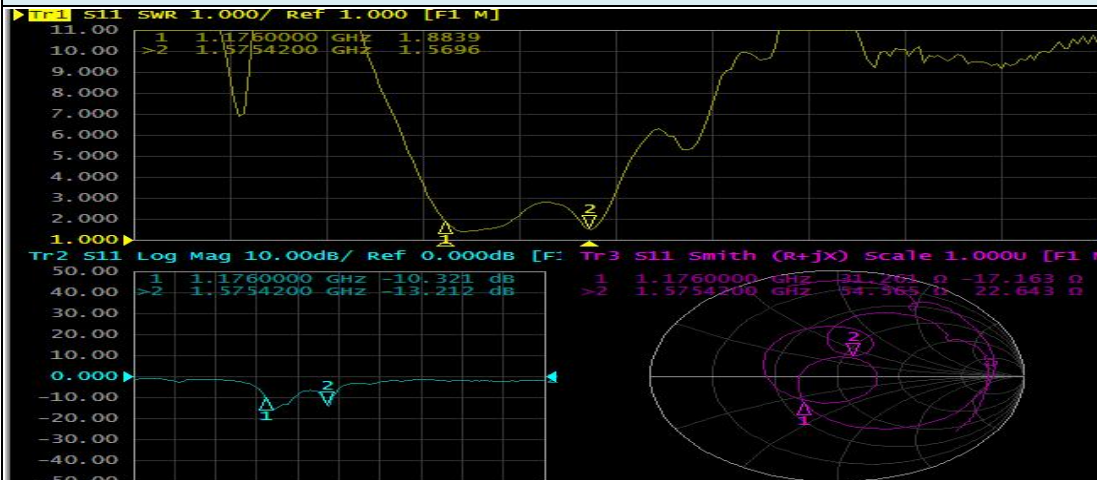
Antenna category:

Metal frame antenna
length: 44MM
wide: 44MM
height: 3.01MM

Antenna type

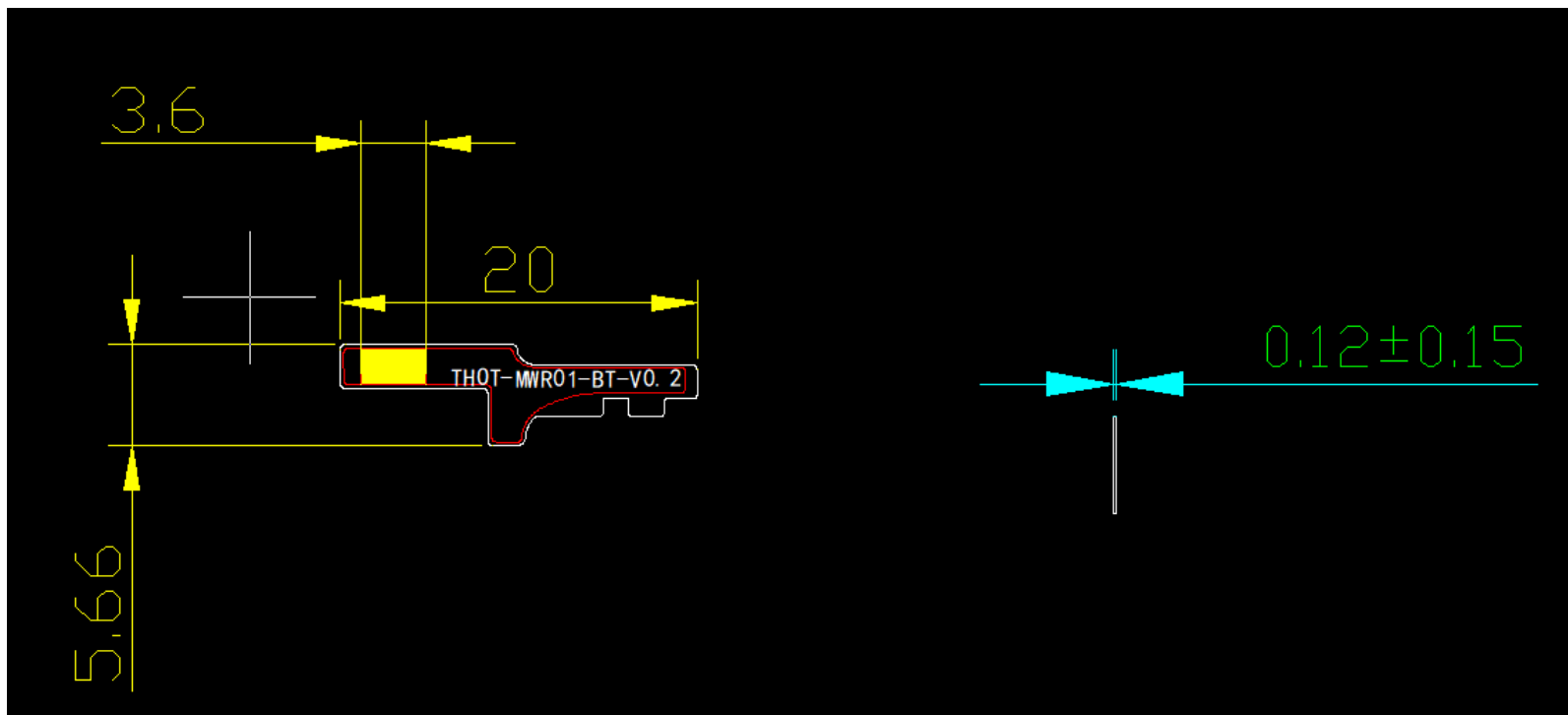
The GPS antenna is a metal ring. BT is FPC.

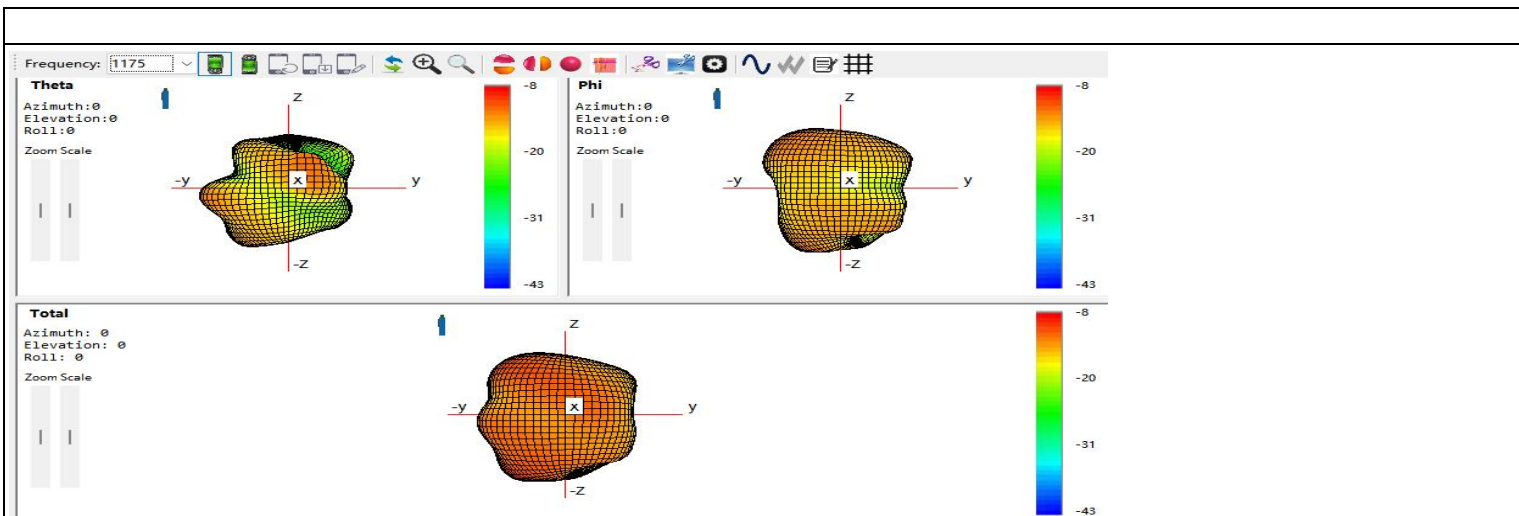
Passive graph



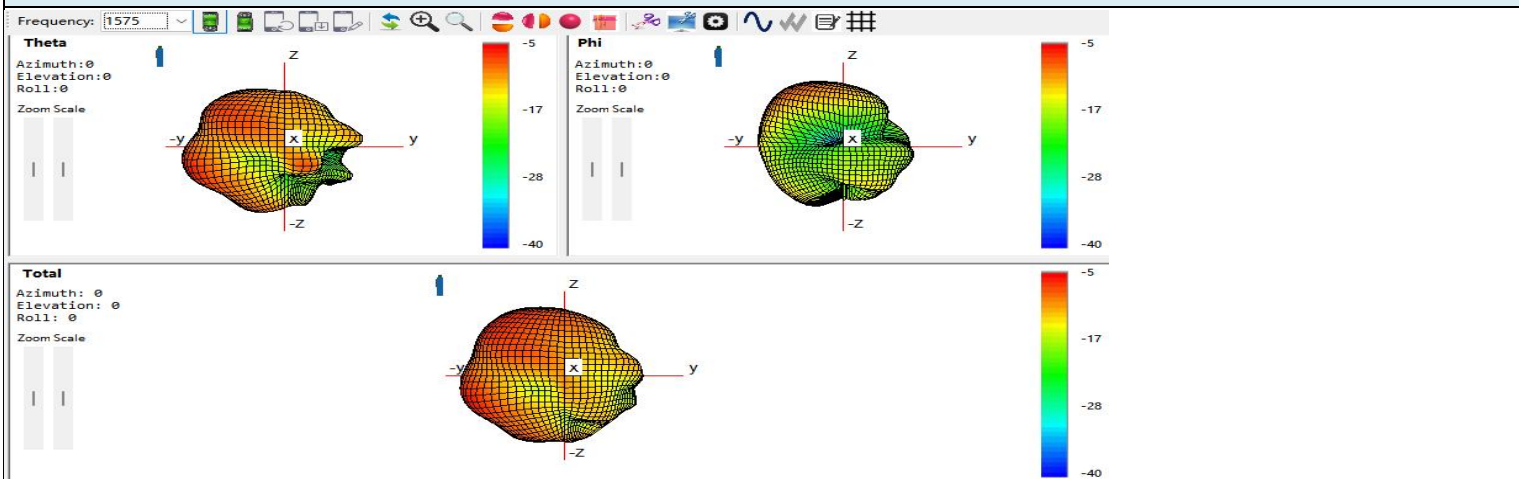
Testing of antenna efficiency parameters

BT Arm	Frequency point	efficiency(%)	efficiency(dB)	gain(dBi)	L1 GPS Arm	Frequency point	efficiency(%)	efficiency(dB)	gain(dBi)
	2400	3.9%	-14.1	-11.4		1550	5.8%	-12.4	-10.3
	2410	4.3%	-13.7	-10.6		1555	6.5%	-11.9	-10.1
	2420	4.7%	-13.3	-10.2		1560	6.9%	-11.6	-9.6
	2430	5.9%	-12.3	-9.5		1565	7.4%	-12.8	-9.4
	2440	6.3%	-12.0	-9.1		1570	7.7%	-11.1	-8.8
	2450	6.8%	-11.7	-8.5		1575	9.3%	-10.3	-8.1
	2460	6.1%	-12.1	-9.4		1580	8.6%	-10.7	-8.4
	2470	5.4%	-12.7	-10.3		1585	7.9%	-11.0	-8.9
	2480	4.4%	-13.6	-11.2		1590	6.4%	-11.9	-9.8
The test situation of antenna efficiency parameters									
L5 GPS Arm	Frequency point	efficiency(%)	efficiency(dB)	gain(dBi)					
	1155	4.6%	-13.4	-11.2					
	1160	5.1%	-12.9	-10.8					
	1165	5.3%	-12.8	-10.2					
	1170	5.7%	-12.4	-9.7					
	1175	6.2%	-12.1	-9.2					
	1180	5.6%	-12.5	-9.4					
	1185	5.1%	-12.9	-9.6					
	1190	4.7%	-13.3	-10.8					
1176MHZ passive directionalmap/field pattern map									





1575MHz passive directionalmap/field pattern map



2450MHz passive directionalmap/field pattern map

